

SAR Plots

- Verification Plots
- SAR Test Plots

DT&C Co., Ltd.

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1049

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.898 \text{ S/m}$; $\epsilon_r = 42.117$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(11.05, 11.05, 11.05); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396
Sensor-Surface: 2mm (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: 2018-03-14; Ambient Temp: 21.3; Tissue Temp: 21.2

750 MHz System Head Verification (250 mW)

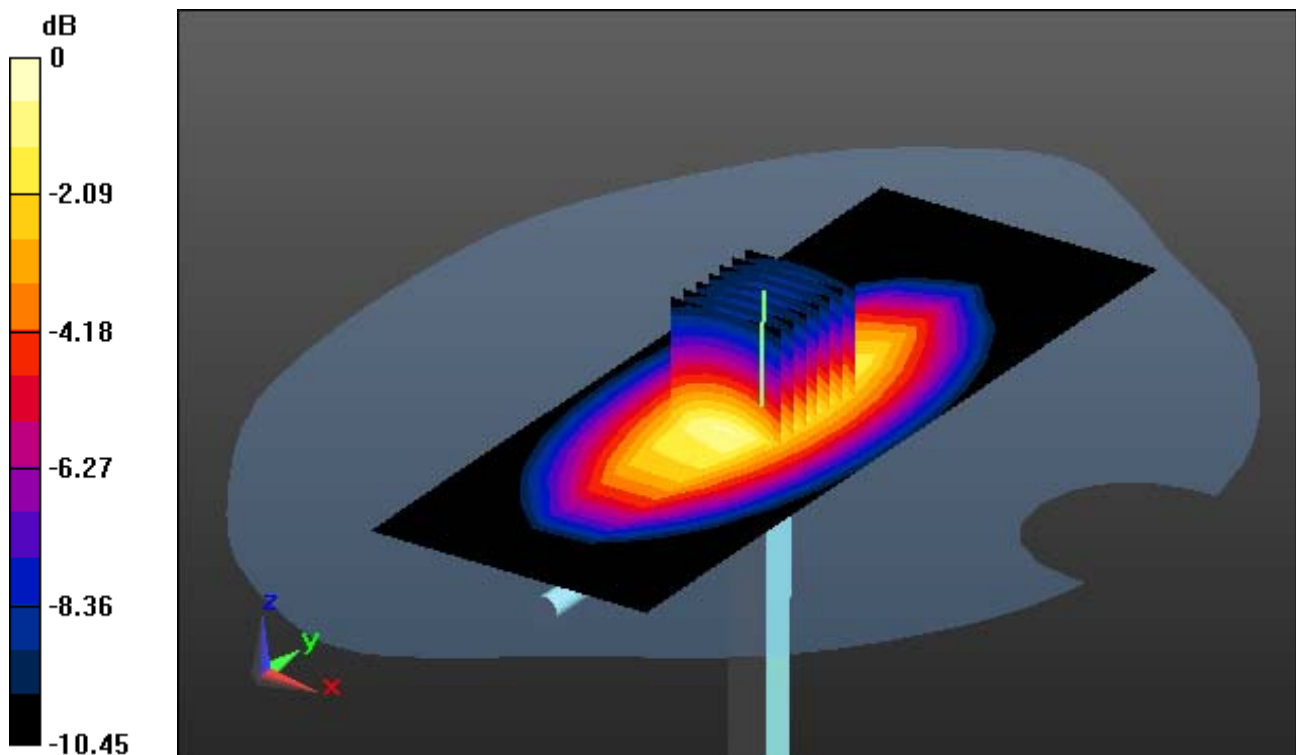
Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.99 W/kg

SAR(1 g) = 1.98 W/kg; SAR(10 g) = 1.3 W/kg



0 dB = 2.53 W/kg

DT&C Co., Ltd.

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1049

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.967 \text{ S/m}$; $\epsilon_r = 56.596$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(10.86, 10.86, 10.86); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396
Sensor-Surface: 2mm (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: 2018-03-15; Ambient Temp: 21.5; Tissue Temp: 21.3

750 MHz System Body Verification (250 mW)

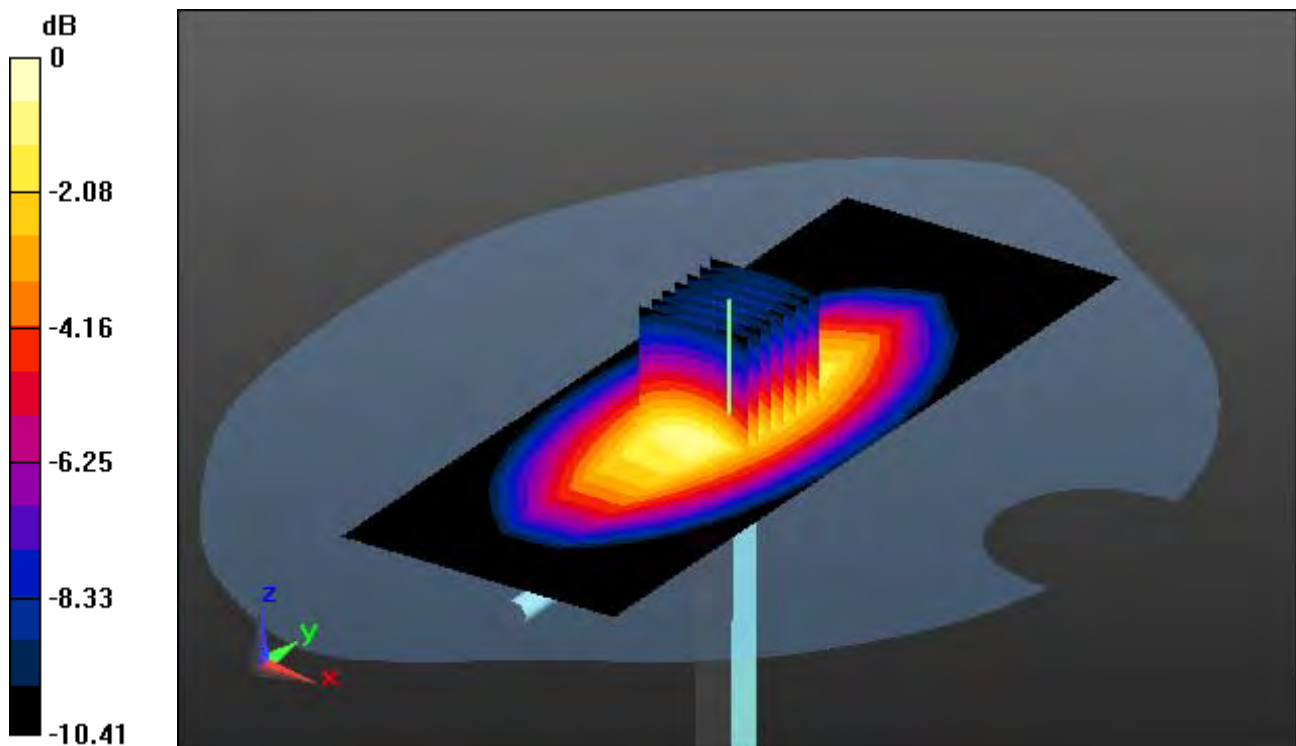
Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.23 W/kg

SAR(1 g) = 2.17 W/kg; SAR(10 g) = 1.42 W/kg



0 dB = 2.75 W/kg

DT&C Co., Ltd.

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

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.887 \text{ S/m}$; $\epsilon_r = 40.16$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(10.55, 10.55, 10.55); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396
Sensor-Surface: 2mm (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: 2018-03-16; Ambient Temp: 22.5; Tissue Temp: 22.3

835 MHz System Head Verification (250 mW)

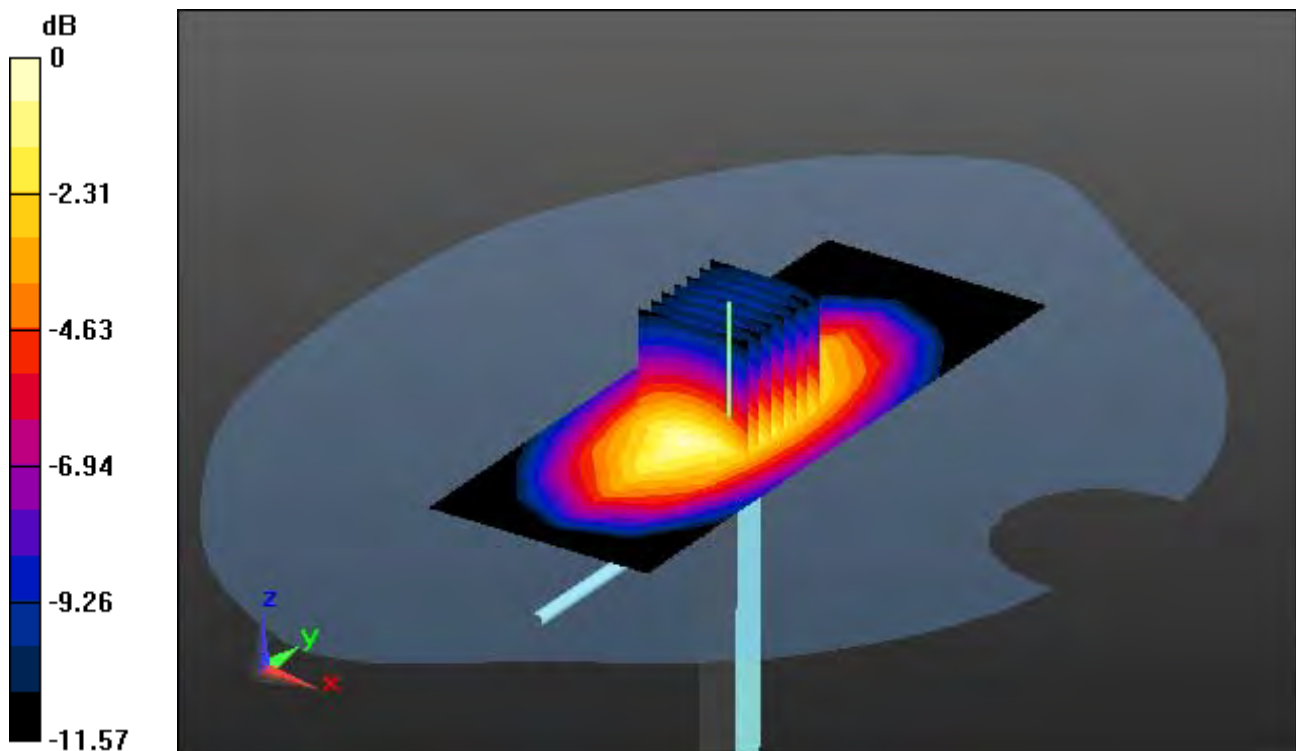
Area Scan (5x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.57 W/kg

SAR(1 g) = 2.3 W/kg; SAR(10 g) = 1.46 W/kg



0 dB = 2.49 W/kg

DT&C Co., Ltd.

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

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 1.007 \text{ S/m}$; $\epsilon_r = 55.553$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(10.6, 10.6, 10.6); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396
Sensor-Surface: 2mm (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: 2018-03-19; Ambient Temp: 20.9; Tissue Temp: 20.8

835 MHz System Body Verification (250 mW)

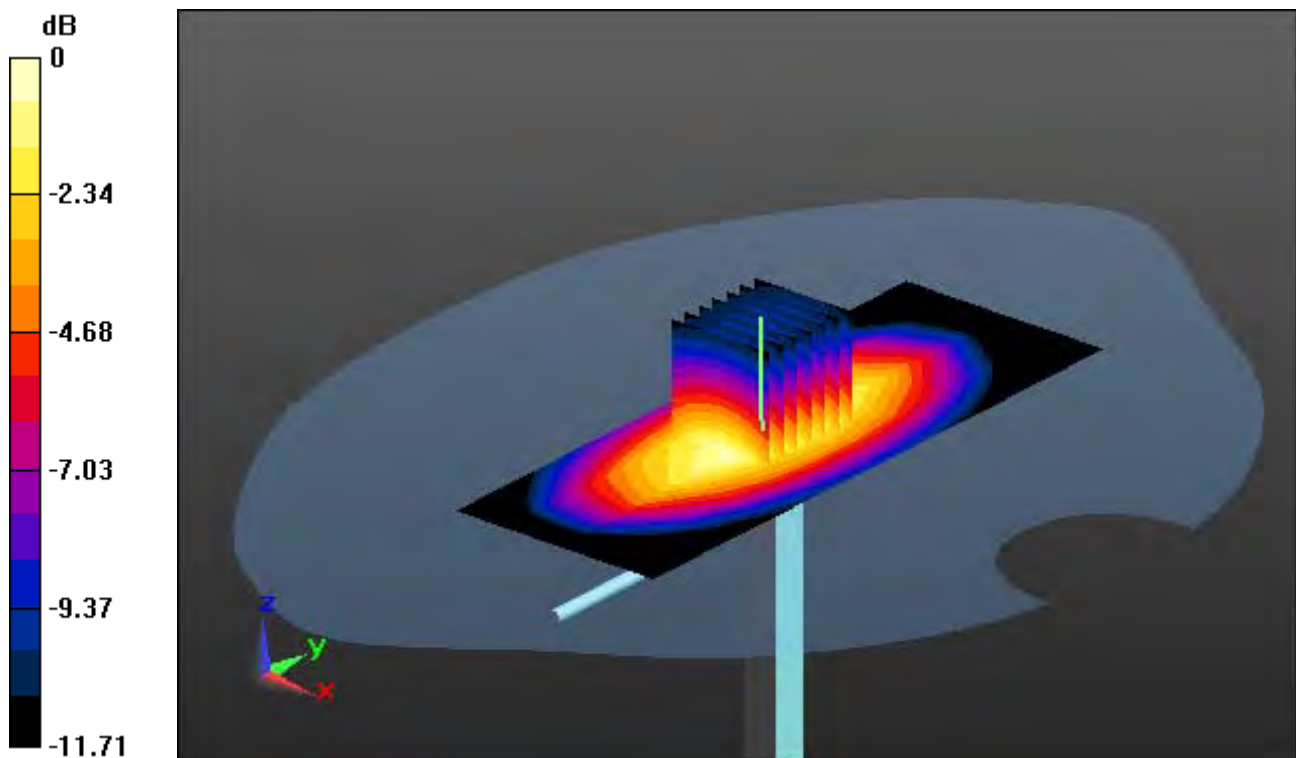
Area Scan (5x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.74 W/kg

SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.52 W/kg



0 dB = 3.11 W/kg

DT&C Co., Ltd.

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d047

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.395$ S/m; $\epsilon_r = 39.982$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(9.32, 9.32, 9.32); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396
Sensor-Surface: 2mm (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: 2018-03-12; Ambient Temp: 21.8; Tissue Temp: 21.6

1800 MHz System Head Verification (250 mW)

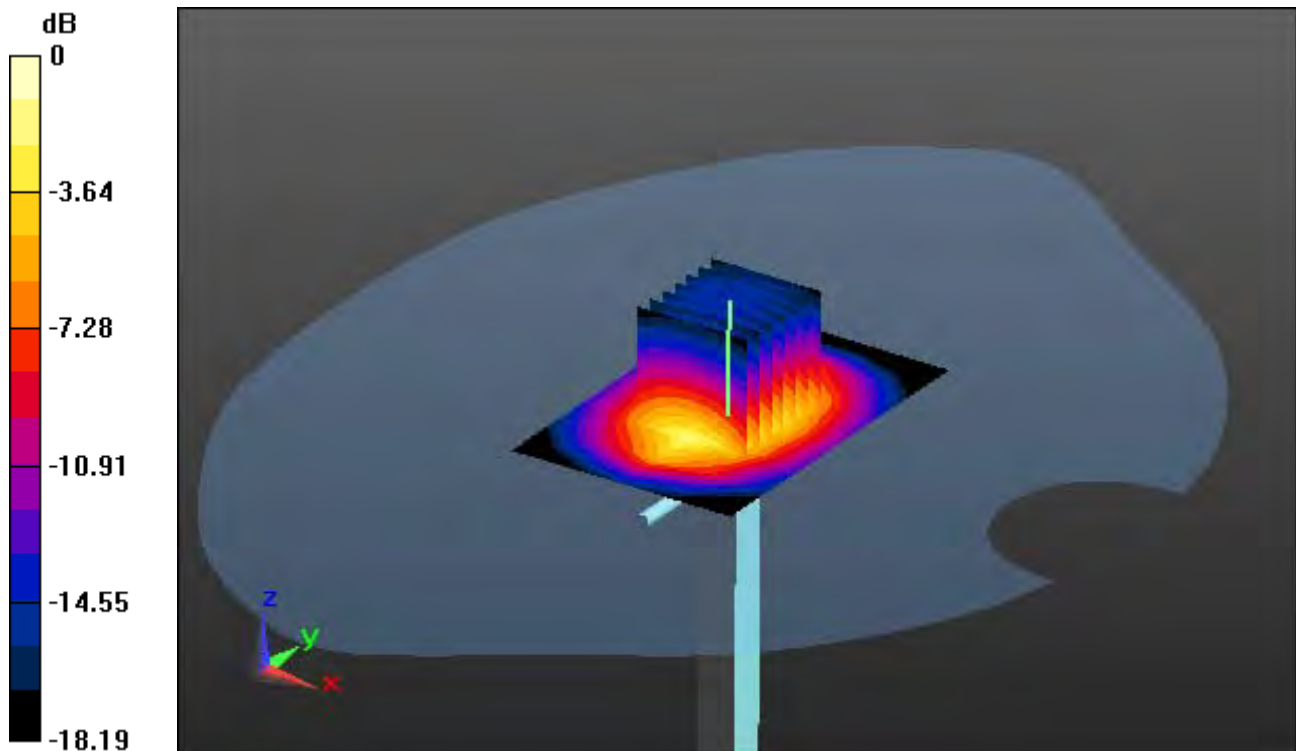
Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

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

Power Drift = 0.00 dB

Peak SAR (extrapolated) = 18.6 W/kg

SAR(1 g) = 9.71 W/kg; SAR(10 g) = 5.07 W/kg



0 dB = 14.1 W/kg

DT&C Co., Ltd.

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d047

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1800$ MHz; $\sigma = 1.547$ S/m; $\epsilon_r = 51.934$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(8.87, 8.87, 8.87); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396
Sensor-Surface: 2mm (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: 2018-03-13; Ambient Temp: 22.0; Tissue Temp: 21.7

1800 MHz System Body Verification (250 mW)

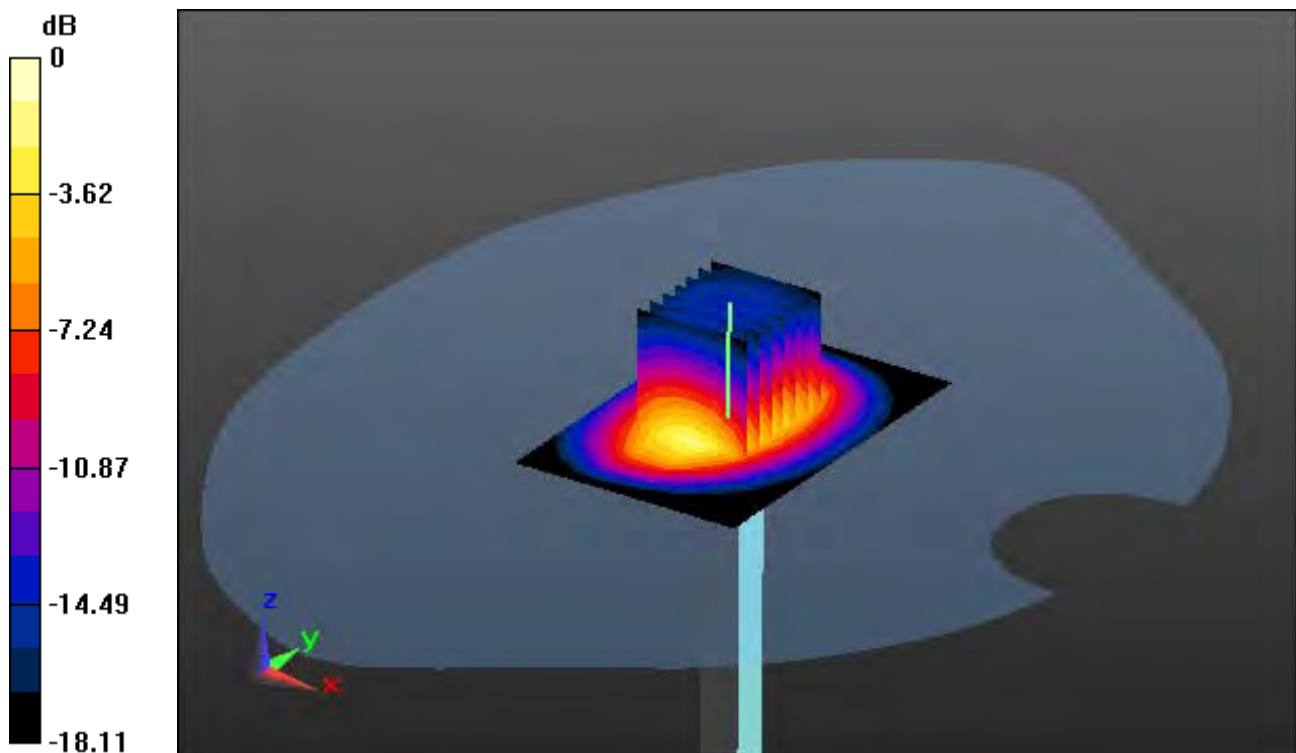
Area Scan (7x10x1): Measurement grid: dx=10mm, dy=10mm

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

Power Drift = 0.00 dB

Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 9.64 W/kg; SAR(10 g) = 4.99 W/kg



0 dB = 14.0 W/kg

DT&C Co., Ltd.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d029

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.428$ S/m; $\epsilon_r = 38.811$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(8.95, 8.95, 8.95); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396
Sensor-Surface: 2mm (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: 2018-03-08; Ambient Temp: 21.8; Tissue Temp: 21.5

1900 MHz System Head Verification (250 mW)

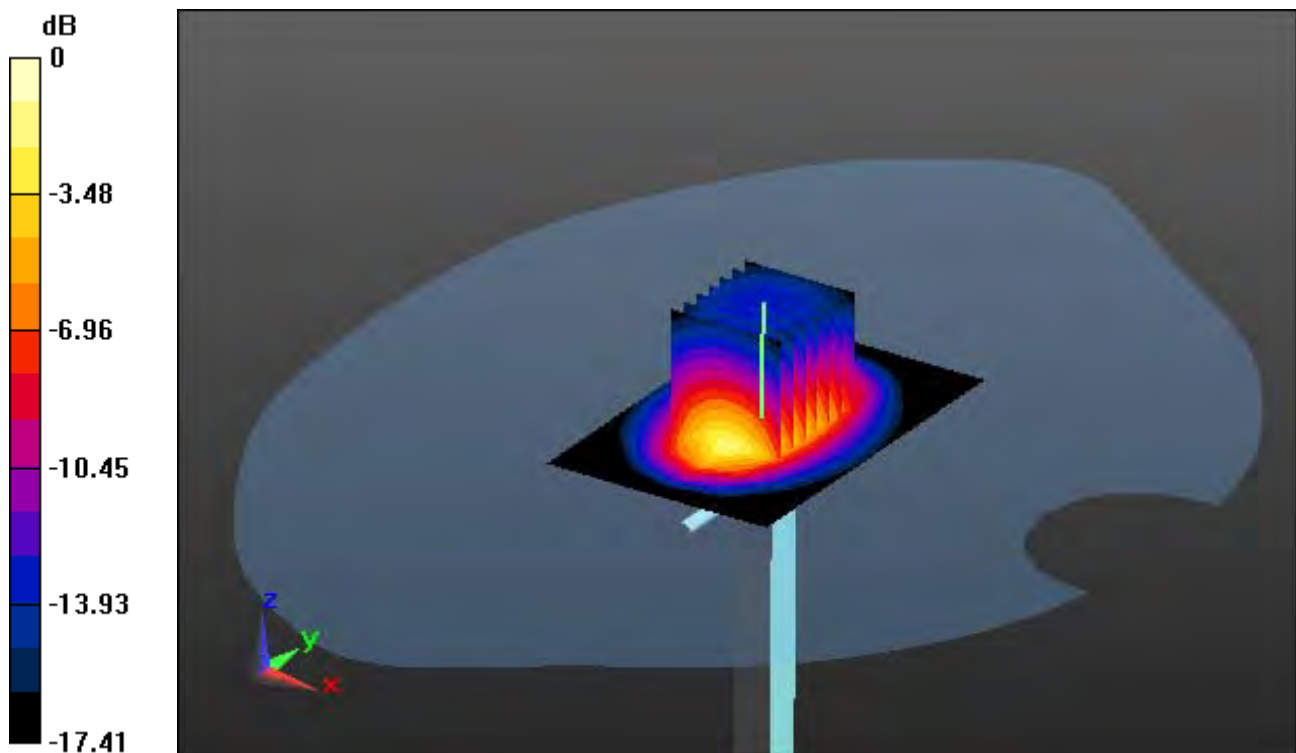
Area Scan (7x10x1): Measurement grid: dx=10mm, dy=10mm

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

Power Drift = 0.04 dB

Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 9.66 W/kg; SAR(10 g) = 4.98 W/kg



0 dB = 13.1 W/kg

DT&C Co., Ltd.

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d029

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.504$ S/m; $\epsilon_r = 52.969$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(8.5, 8.5, 8.5); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396
Sensor-Surface: 2mm (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: 2018-03-07; Ambient Temp: 20.6; Tissue Temp: 20.4

1900 MHz System Body Verification (250 mW)

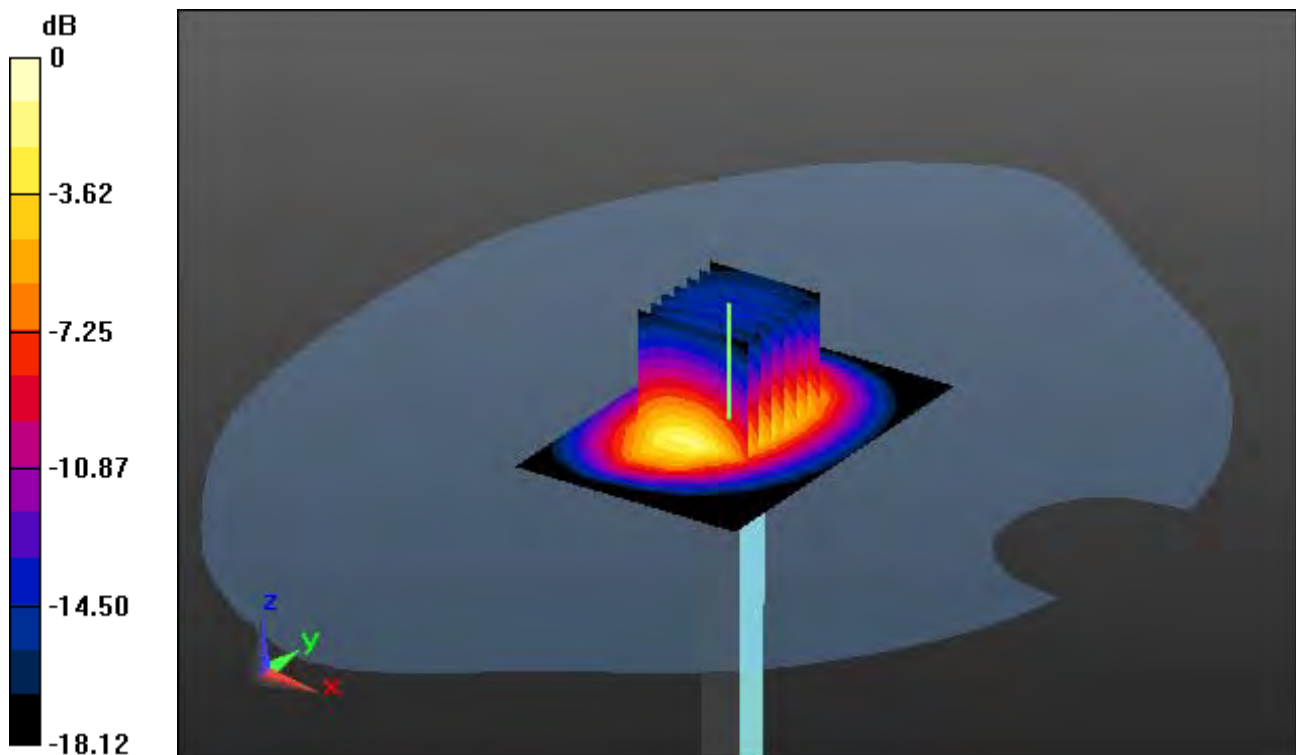
Area Scan (7x10x1): Measurement grid: dx=10mm, dy=10mm

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

Power Drift = -0.14 dB

Peak SAR (extrapolated) = 18.4 W/kg

SAR(1 g) = 9.78 W/kg; SAR(10 g) = 5.06 W/kg



0 dB = 14.2 W/kg

DT&C Co., Ltd.

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:726

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.83$ S/m; $\epsilon_r = 39.532$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.7, 7.7, 7.7); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
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: 2018-03-06; Ambient Temp: 20.8; Tissue Temp: 21.8

2450 MHz System Head Verification

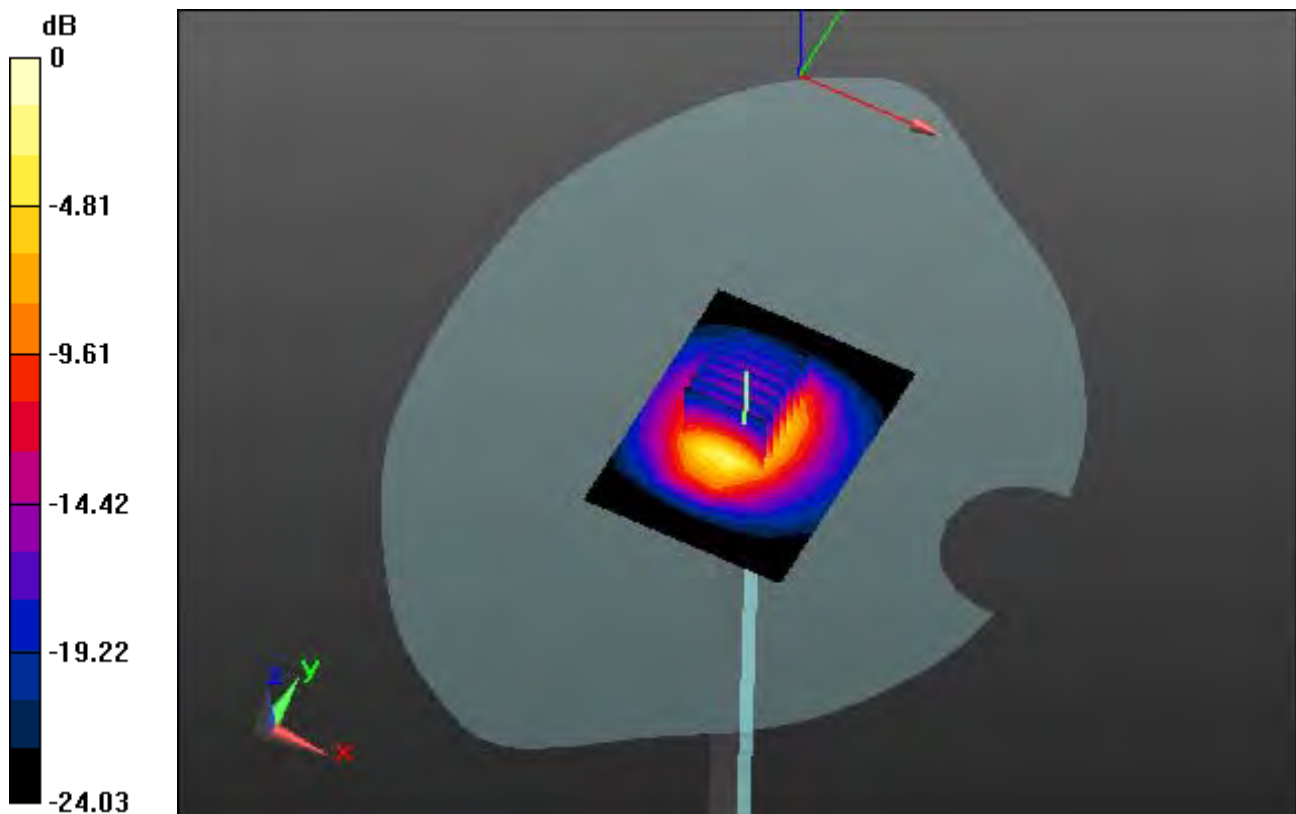
Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm

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

Power Drift = -0.13 dB

Peak SAR (extrapolated) = 11.4 W/kg

SAR(1 g) = 5.28 W/kg; SAR(10 g) = 2.39 W/kg



0 dB = 8.17 W/kg

DT&C Co., Ltd.

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:726

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.98$ S/m; $\epsilon_r = 51.182$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.88, 7.88, 7.88); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
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: 2018-03-07; Ambient Temp: 21.1; Tissue Temp: 22.2

2450 MHz System Body Verification

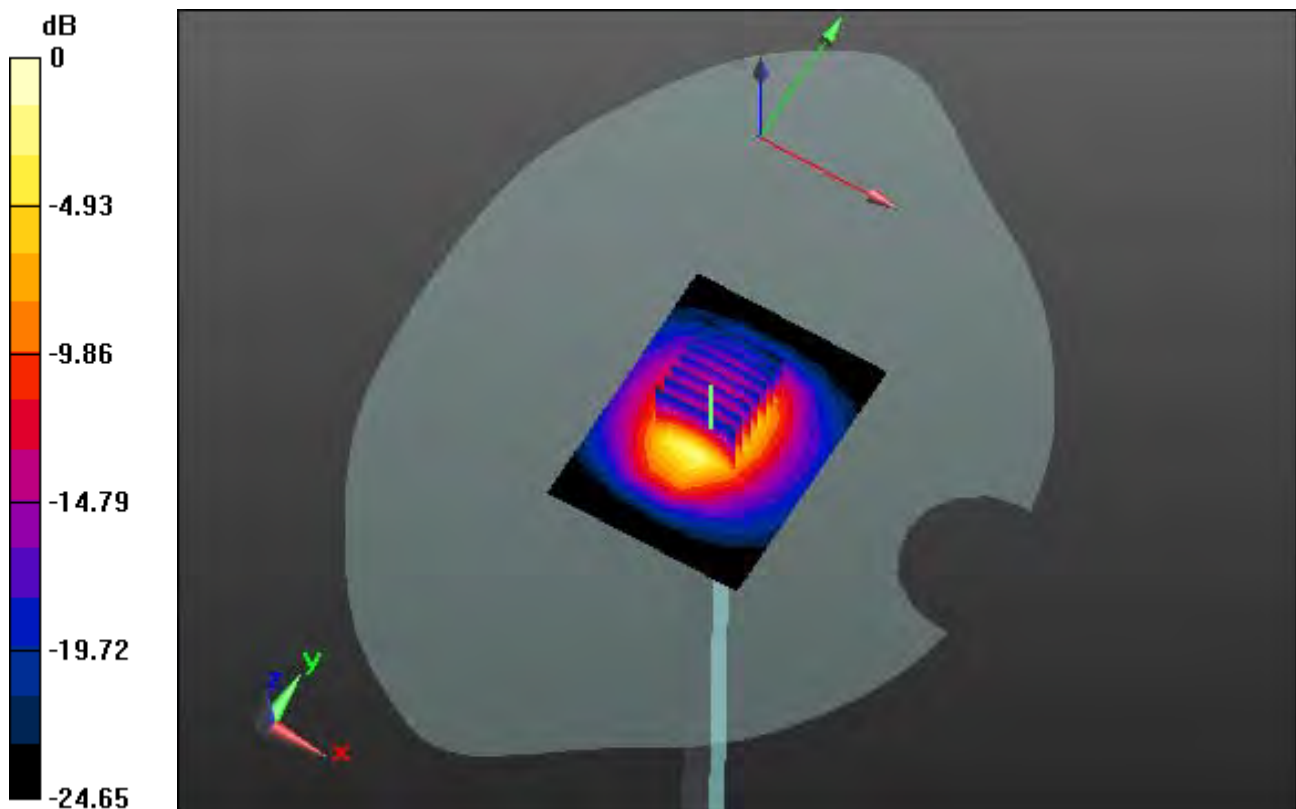
Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm

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

Power Drift = -0.09 dB

Peak SAR (extrapolated) = 11.0 W/kg

SAR(1 g) = 5.12 W/kg; SAR(10 g) = 2.32 W/kg



0 dB = 7.93 W/kg

DT&C Co., Ltd.

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:726

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.745$ S/m; $\epsilon_r = 40.527$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.7, 7.7, 7.7); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
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: 2018-04-27; Ambient Temp: 20.7; Tissue Temp: 21.2

2450 MHz System Head Verification

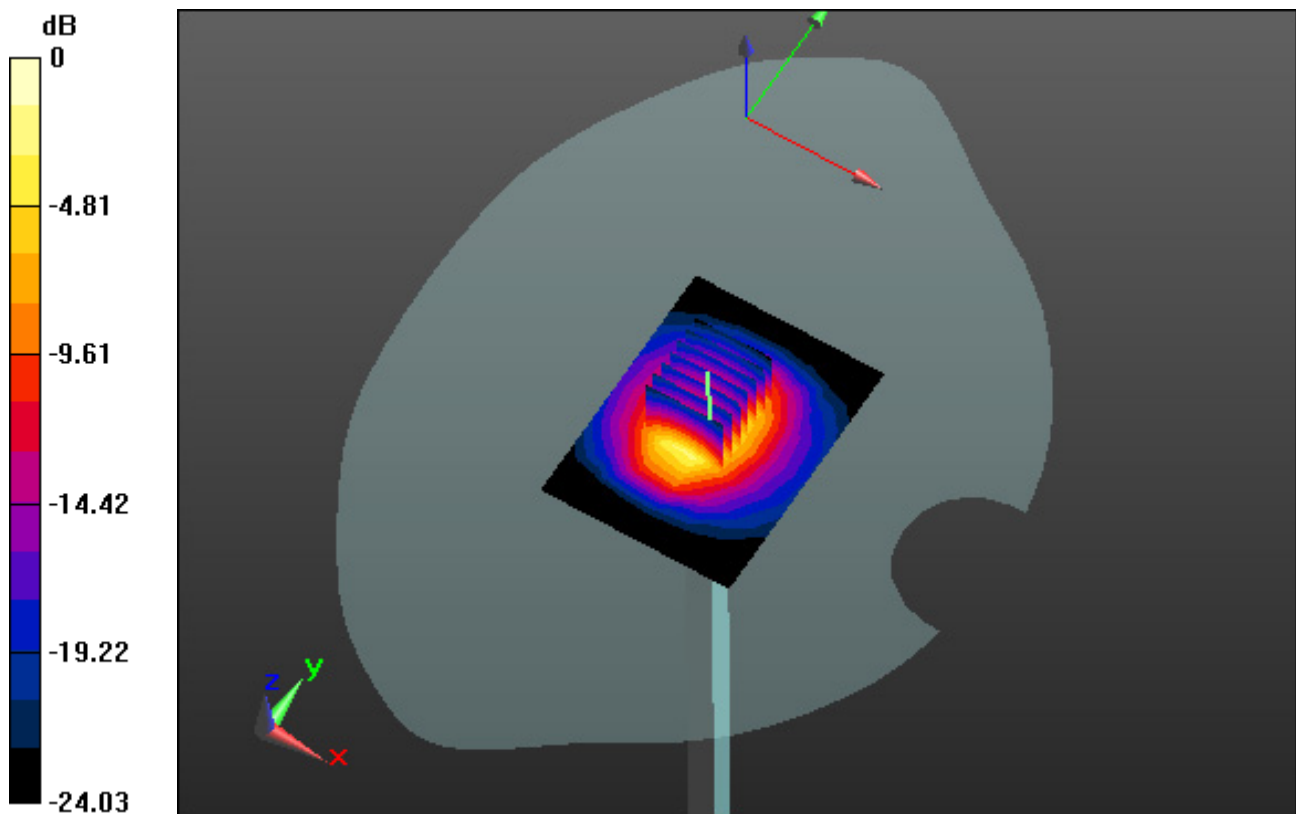
Area Scan (7x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

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

Power Drift = -0.11 dB

Peak SAR (extrapolated) = 10.9 W/kg

SAR(1 g) = 5.04 W/kg; SAR(10 g) = 2.28 W/kg



0 dB = 7.80 W/kg

DT&C Co., Ltd.

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:726

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.911$ S/m; $\epsilon_r = 51.352$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.88, 7.88, 7.88); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
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: 2018-04-27; Ambient Temp: 20.7; Tissue Temp: 21.4

2450 MHz System Body Verification

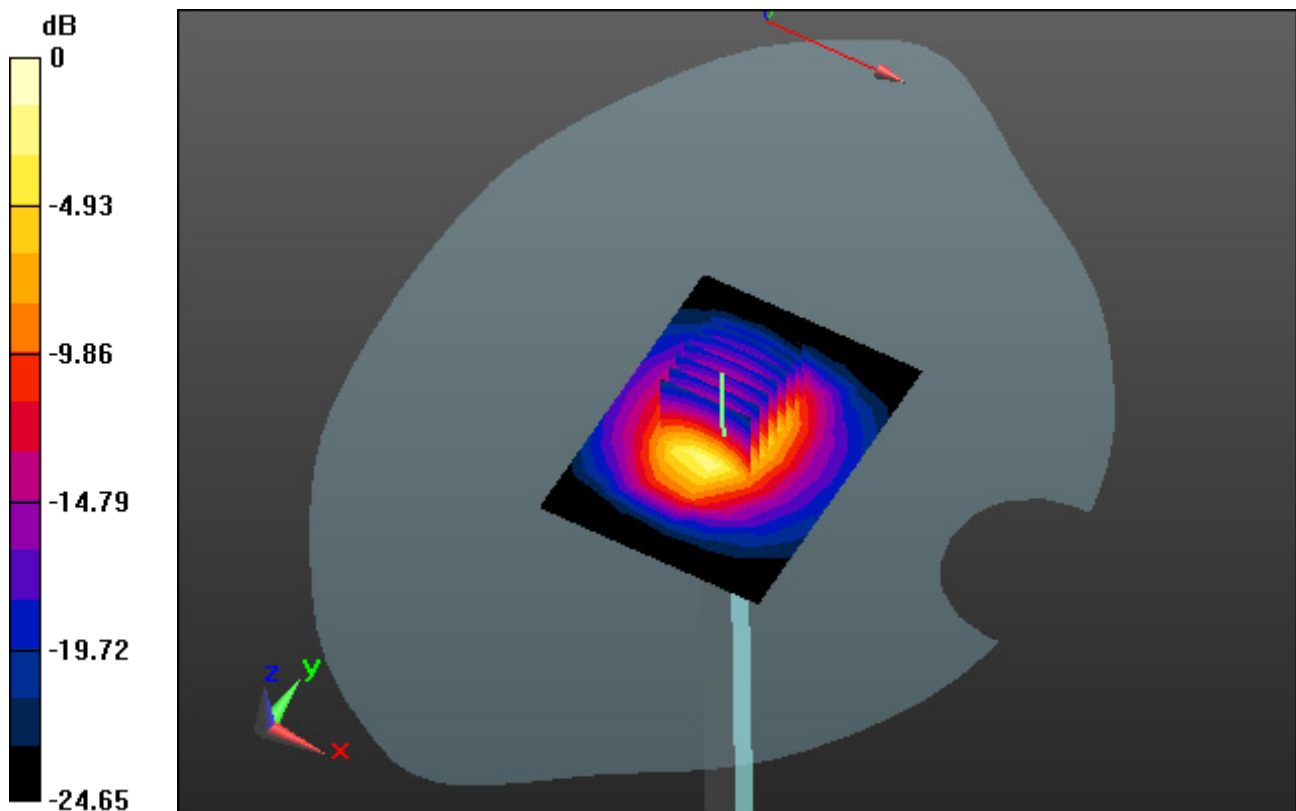
Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm

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

Power Drift = -0.04 dB

Peak SAR (extrapolated) = 10.6 W/kg

SAR(1 g) = 4.94 W/kg; SAR(10 g) = 2.34 W/kg



0 dB = 7.65 W/kg

DT&C Co., Ltd.

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1103

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 1.981$ S/m; $\epsilon_r = 38.435$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(4.57, 4.57, 4.57); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394
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: 2018-03-09; Ambient Temp: 21.2; Tissue Temp: 21.0

2600 MHz System Head Verification (100 mW)

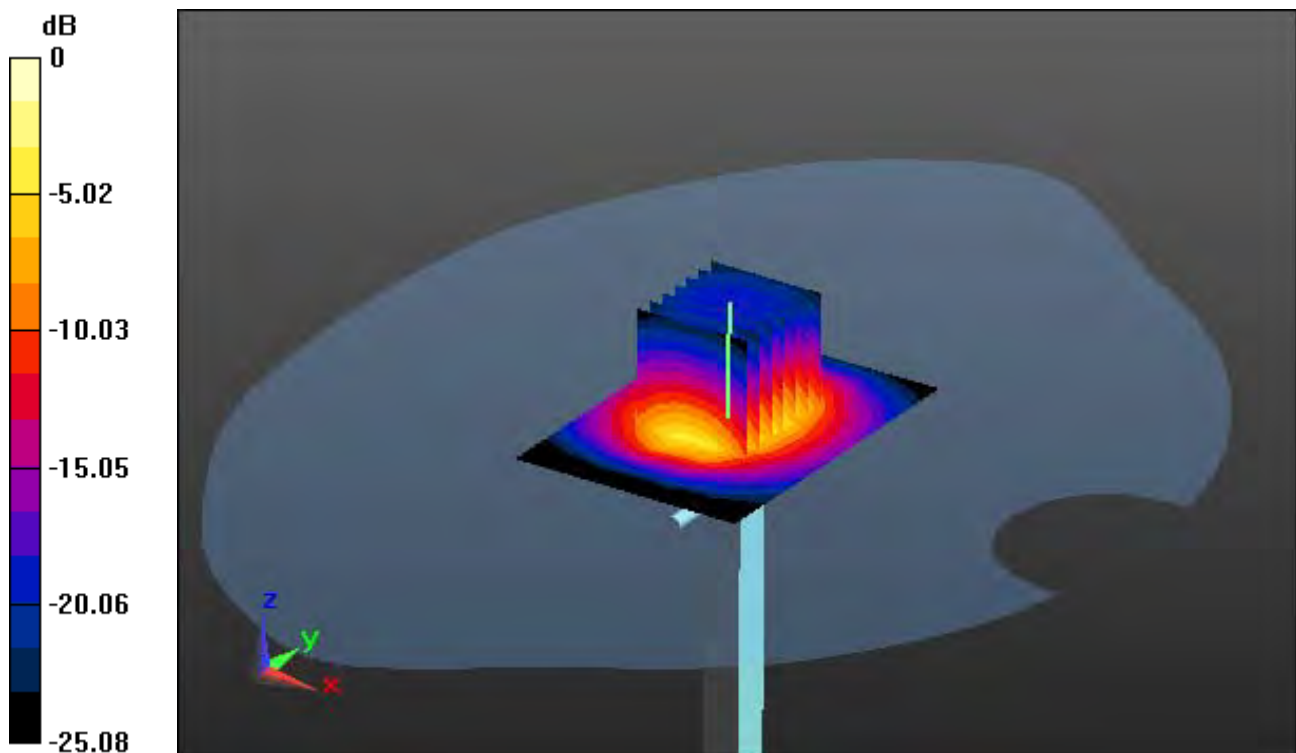
Area Scan (6x8x1): Measurement grid: dx=12mm, dy=12mm

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

Power Drift = 0.00 dB

Peak SAR (extrapolated) = 12.3 W/kg

SAR(1 g) = 5.46 W/kg; SAR(10 g) = 2.39 W/kg



0 dB = 7.27 W/kg

DT&C Co., Ltd.

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1103

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 2600$ MHz; $\sigma = 2.149$ S/m; $\epsilon_r = 51.397$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(7.79, 7.79, 7.79); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396
Sensor-Surface: 2mm (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: 2018-03-21; Ambient Temp: 20.9; Tissue Temp: 20.7

2600 MHz System Body Verification (100 mW)

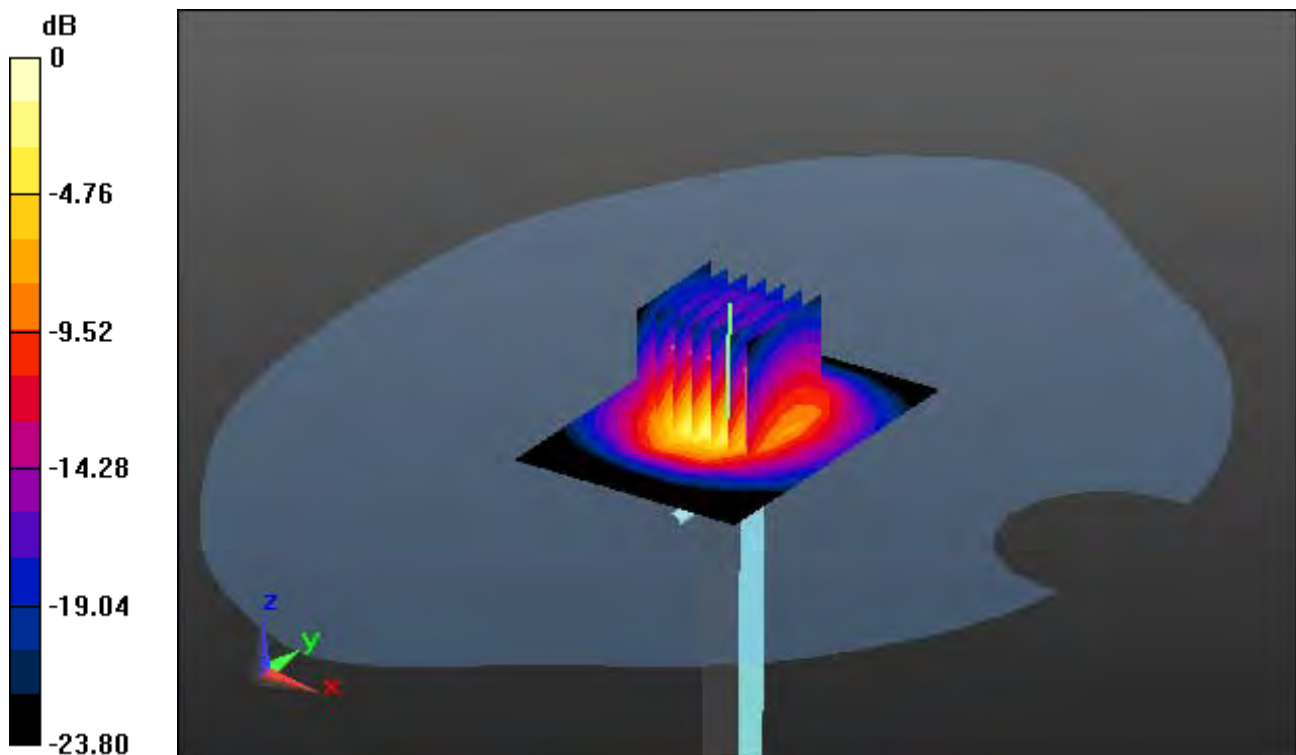
Area Scan (6x8x1): Measurement grid: dx=12mm, dy=12mm

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

Power Drift = 0.00 dB

Peak SAR (extrapolated) = 11.7 W/kg

SAR(1 g) = 5.57 W/kg; SAR(10 g) = 2.49 W/kg



0 dB = 8.54 W/kg

DT&C Co., Ltd.

DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1212

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5200$ MHz; $\sigma = 5.387$ S/m; $\epsilon_r = 50.062$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.41, 5.41, 5.41); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-03-08; Ambient Temp: 20.7; Tissue Temp: 21.6

5200 MHz System Body Verification

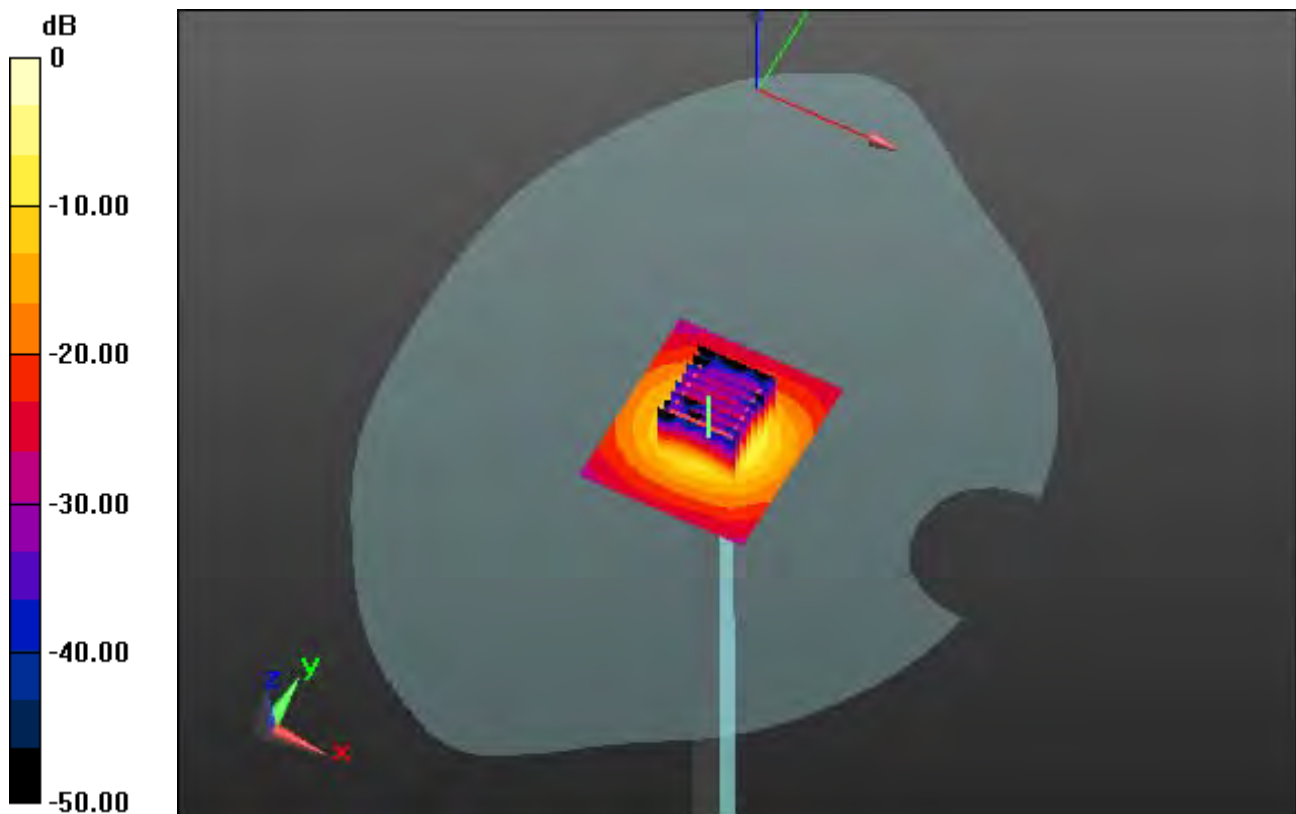
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = -0.17 dB

Peak SAR (extrapolated) = 28.2 W/kg

SAR(1 g) = 7.29 W/kg; SAR(10 g) = 2.11 W/kg



0 dB = 16.7 W/kg

DT&C Co., Ltd.

DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1212

Communication System: UID 0, CW (0); Frequency: 5300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5300$ MHz; $\sigma = 4.815$ S/m; $\epsilon_r = 36.082$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.61, 5.61, 5.61); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-03-09; Ambient Temp: 20.9; Tissue Temp: 22.0

5300 MHz System Head Verification

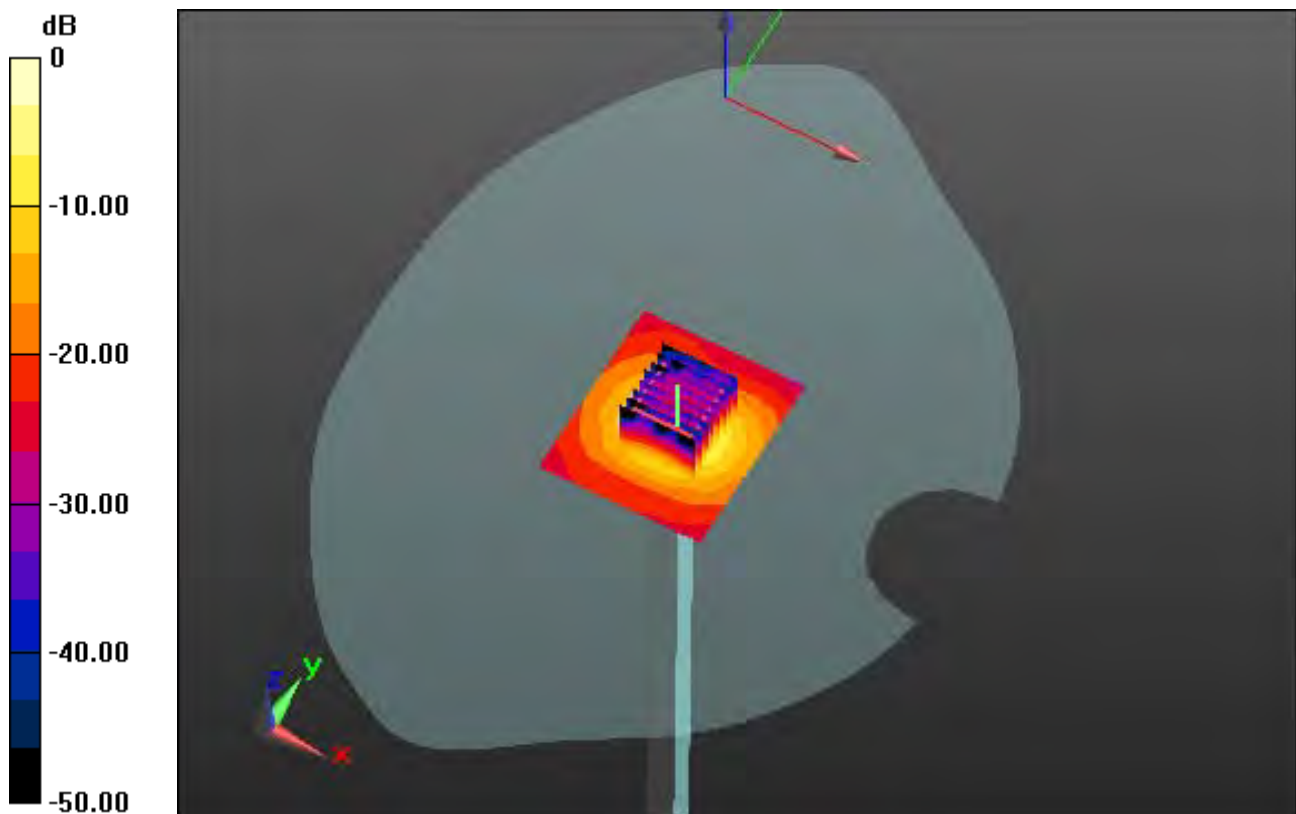
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = -0.17 dB

Peak SAR (extrapolated) = 35.3 W/kg

SAR(1 g) = 8.66 W/kg; SAR(10 g) = 2.48 W/kg



0 dB = 20.2 W/kg

DT&C Co., Ltd.

DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1212

Communication System: UID 0, CW (0); Frequency: 5300 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5300$ MHz; $\sigma = 5.57$ S/m; $\epsilon_r = 48.336$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.1, 5.1, 5.1); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-03-12; Ambient Temp: 21.1; Tissue Temp: 22.3

5300 MHz System Body Verification

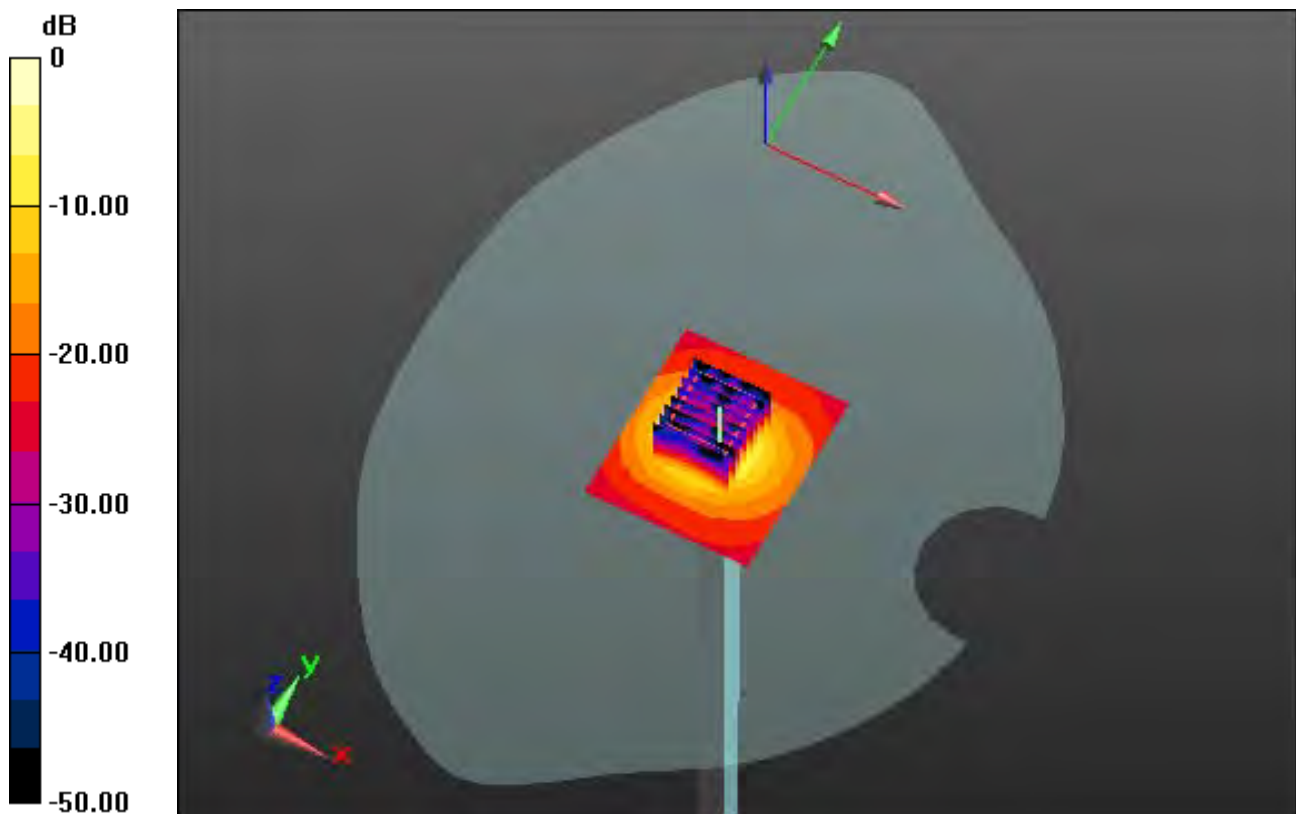
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = 0.09 dB

Peak SAR (extrapolated) = 32.8 W/kg

SAR(1 g) = 7.52 W/kg; SAR(10 g) = 2.09 W/kg



0 dB = 18.3 W/kg

DT&C Co., Ltd.

DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1212

Communication System: UID 0, CW (0); Frequency: 5500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5500$ MHz; $\sigma = 4.869$ S/m; $\epsilon_r = 34.58$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.1, 5.1, 5.1); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-03-13; Ambient Temp: 20.7; Tissue Temp: 21.6

5500 MHz System Head Verification

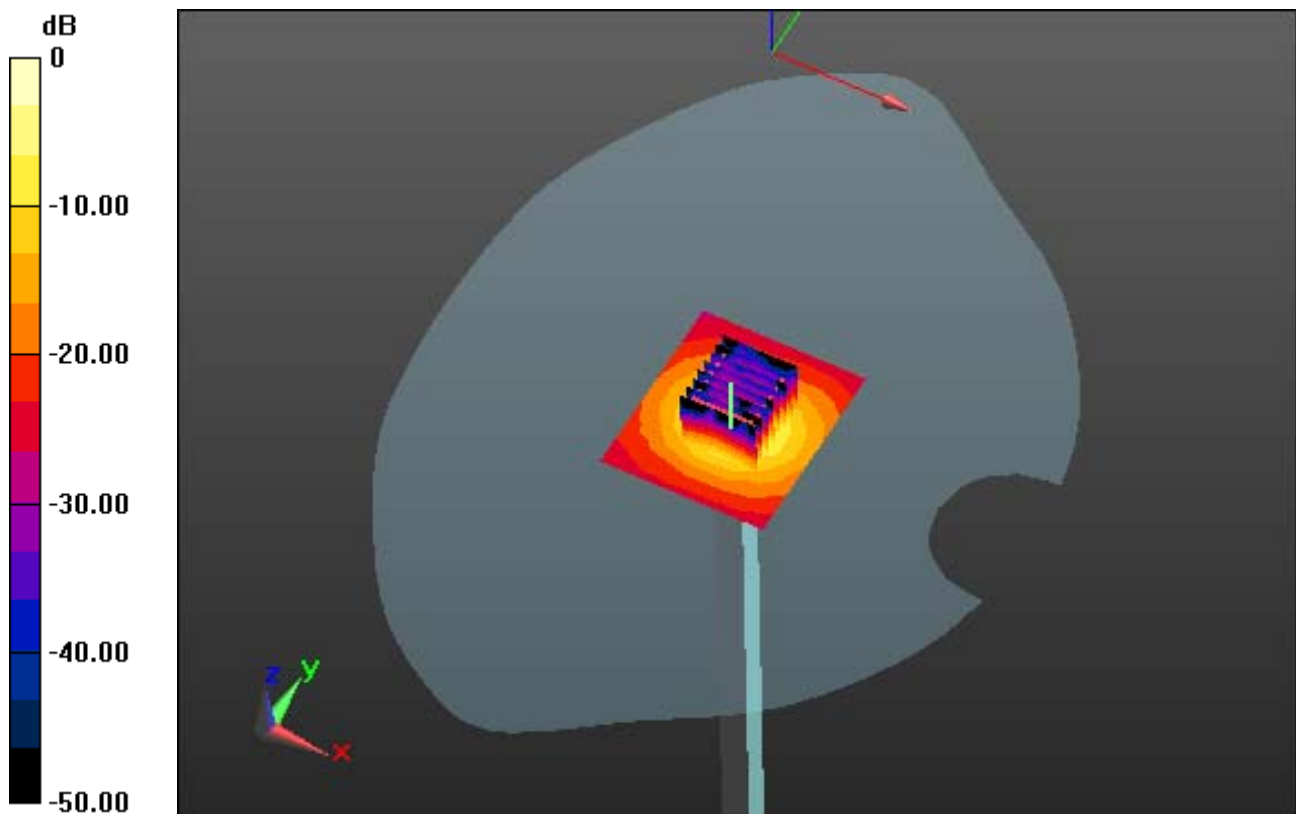
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = -0.19 dB

Peak SAR (extrapolated) = 36.1 W/kg

SAR(1 g) = 8.8 W/kg; SAR(10 g) = 2.51 W/kg



0 dB = 20.6 W/kg

DT&C Co., Ltd.

DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1212

Communication System: UID 0, CW (0); Frequency: 5500 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5500$ MHz; $\sigma = 5.814$ S/m; $\epsilon_r = 50.492$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.5, 4.5, 4.5); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-03-14; Ambient Temp: 21.5; Tissue Temp: 22.5

5500 MHz System Body Verification

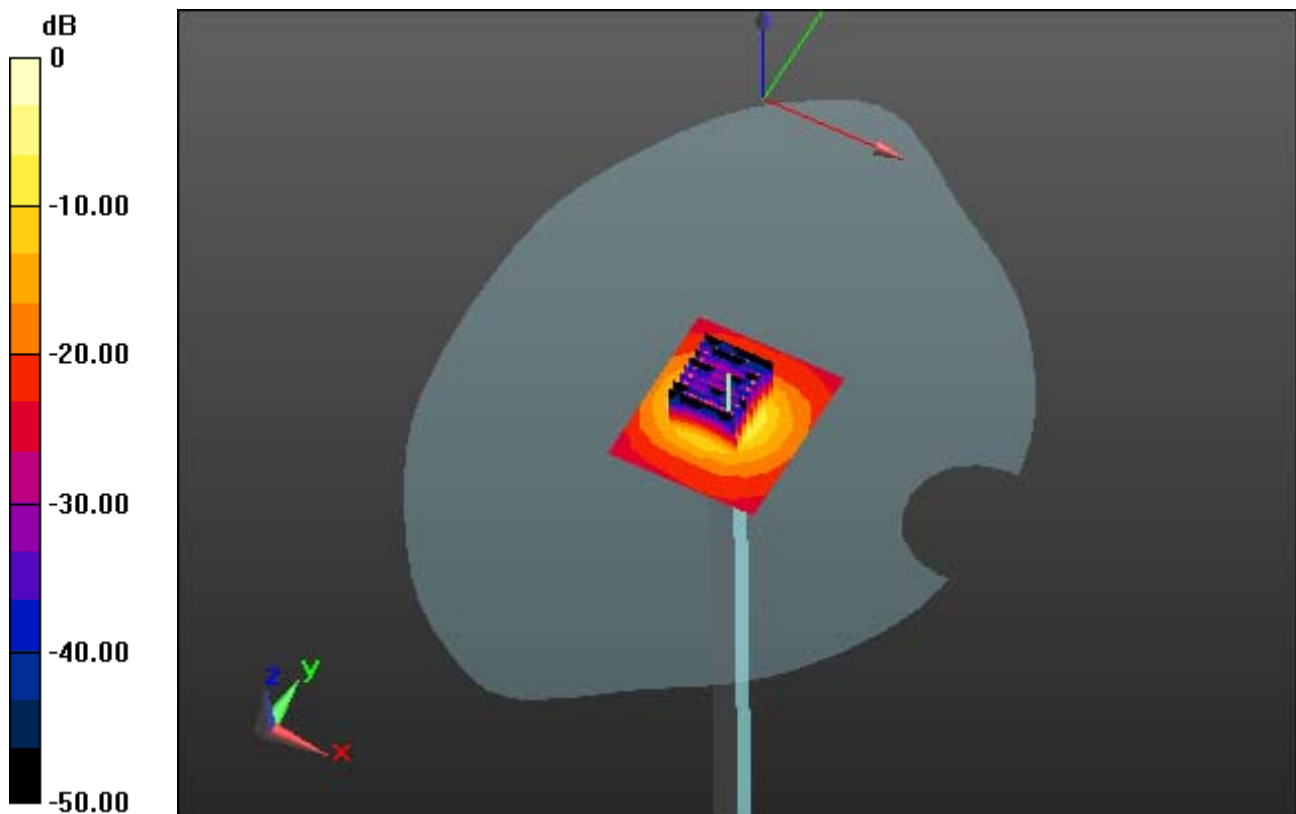
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = 0.06 dB

Peak SAR (extrapolated) = 35.9 W/kg

SAR(1 g) = 8.39 W/kg; SAR(10 g) = 2.34 W/kg



0 dB = 20.3 W/kg

DT&C Co., Ltd.

DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1212

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600$ MHz; $\sigma = 4.984$ S/m; $\epsilon_r = 34.363$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.89, 4.89, 4.89); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-03-13; Ambient Temp: 20.7; Tissue Temp: 21.6

5600 MHz System Head Verification

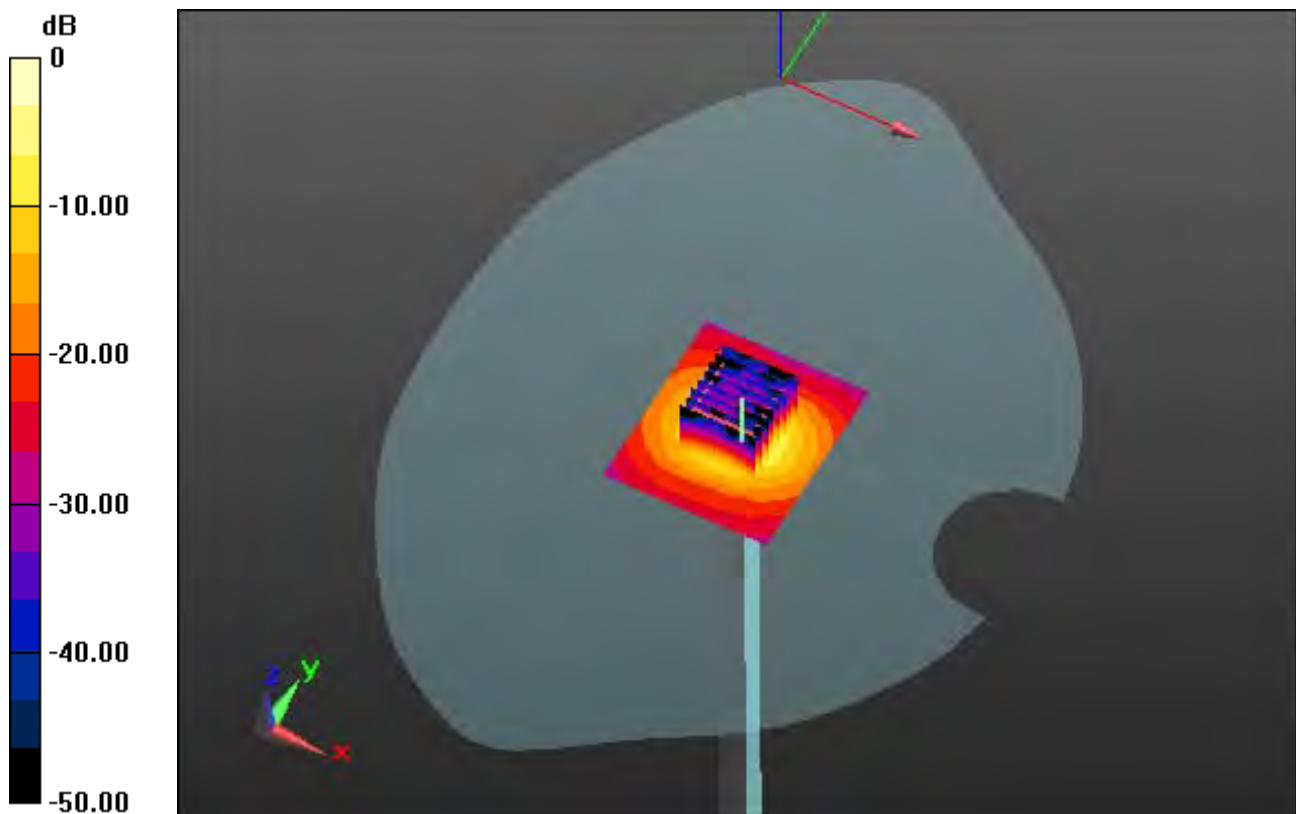
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = -0.14 dB

Peak SAR (extrapolated) = 36.8 W/kg

SAR(1 g) = 8.76 W/kg; SAR(10 g) = 2.48 W/kg



0 dB = 21.3 W/kg

DT&C Co., Ltd.

DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1212

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5600$ MHz; $\sigma = 5.964$ S/m; $\epsilon_r = 50.309$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.42, 4.42, 4.42); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-03-14; Ambient Temp: 21.5; Tissue Temp: 22.5

5600 MHz System Body Verification

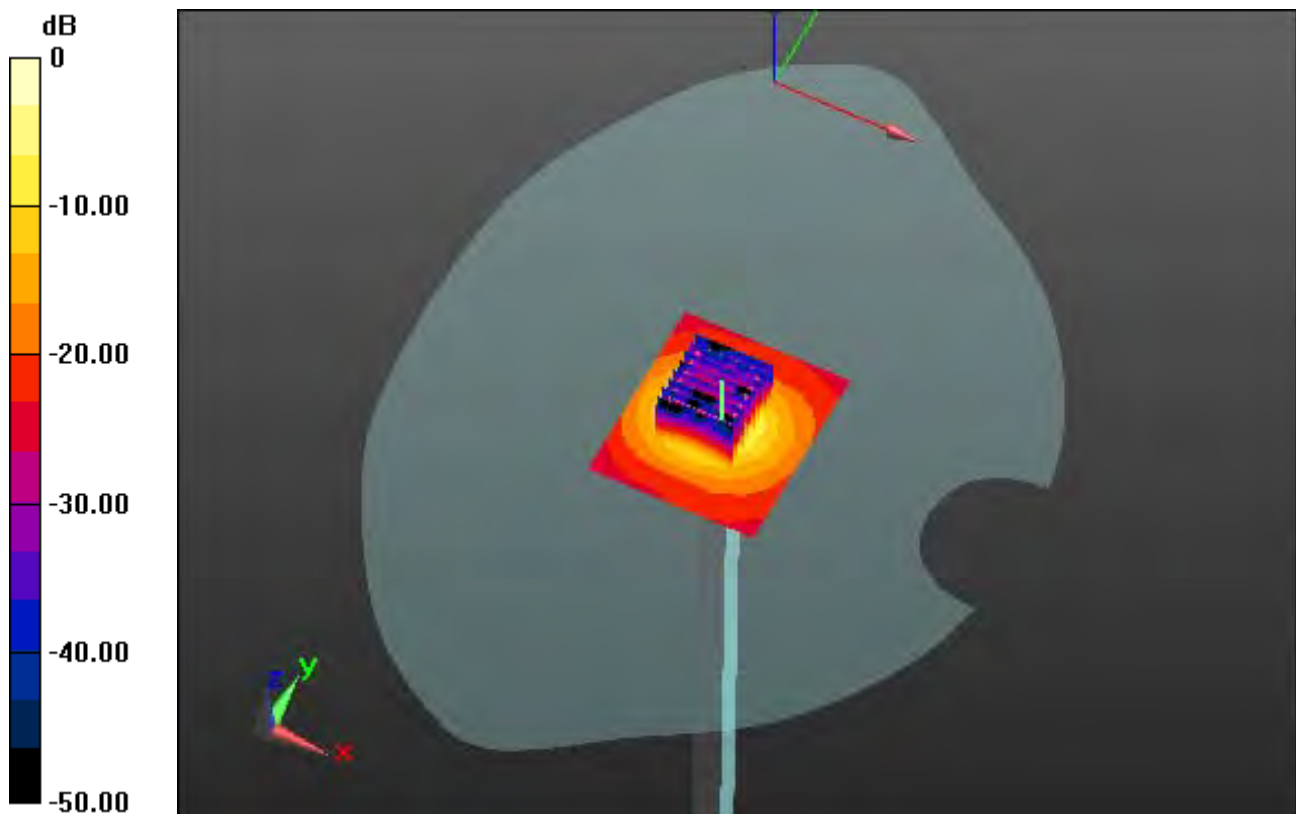
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = 0.09 dB

Peak SAR (extrapolated) = 34.2 W/kg

SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.2 W/kg



0 dB = 19.1 W/kg

DT&C Co., Ltd.

DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1212

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5800$ MHz; $\sigma = 5.444$ S/m; $\epsilon_r = 35.007$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5, 5, 5); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-03-15; Ambient Temp: 21.0; Tissue Temp: 20.7

5800 MHz System Head Verification

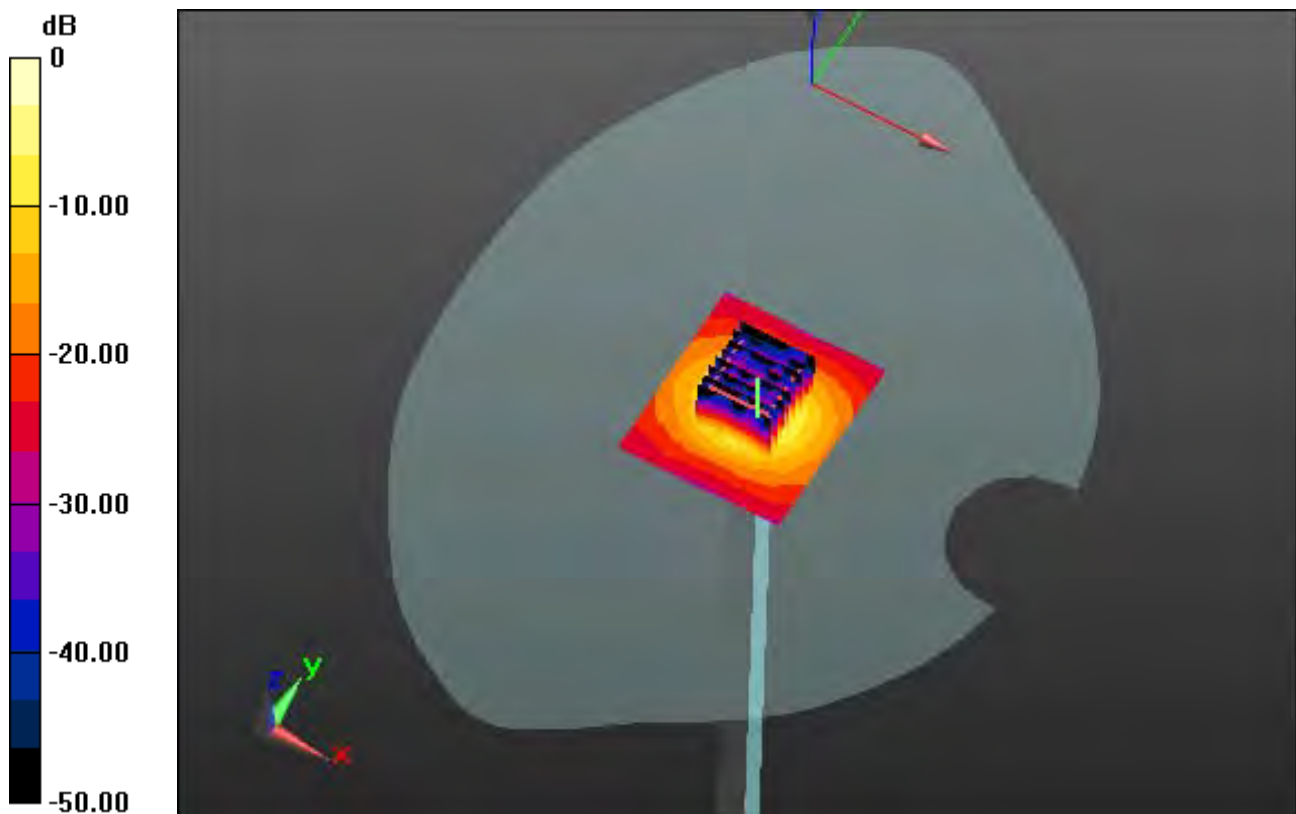
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = -0.04 dB

Peak SAR (extrapolated) = 35.5 W/kg

SAR(1 g) = 8.22 W/kg; SAR(10 g) = 2.34 W/kg



0 dB = 19.8 W/kg

DT&C Co., Ltd.

DUT: Dipole 5000 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1212

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 5800$ MHz; $\sigma = 6.219$ S/m; $\epsilon_r = 49.737$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.61, 4.61, 4.61); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335
Sensor-Surface: 1.4mm (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: 2018-03-16; Ambient Temp: 21.4; Tissue Temp: 22.0

5800 MHz System Body Verification

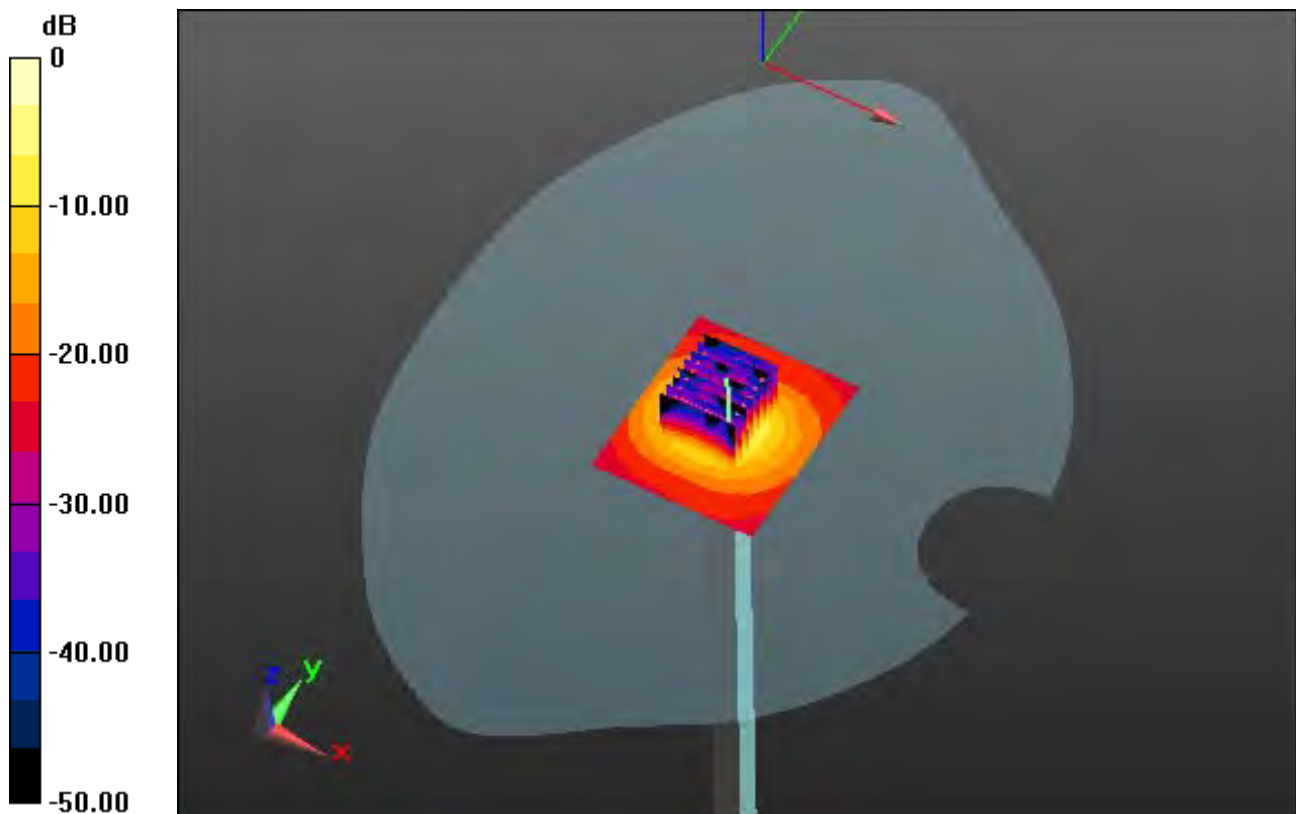
Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

Power Drift = 0.11 dB

Peak SAR (extrapolated) = 33.4 W/kg

SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.15 W/kg



0 dB = 18.7 W/kg

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

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

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.888 \text{ S/m}$; $\epsilon_r = 40.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(10.55, 10.55, 10.55); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (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: 2018-03-16; Ambient Temp: 22.5; Tissue Temp: 22.3

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

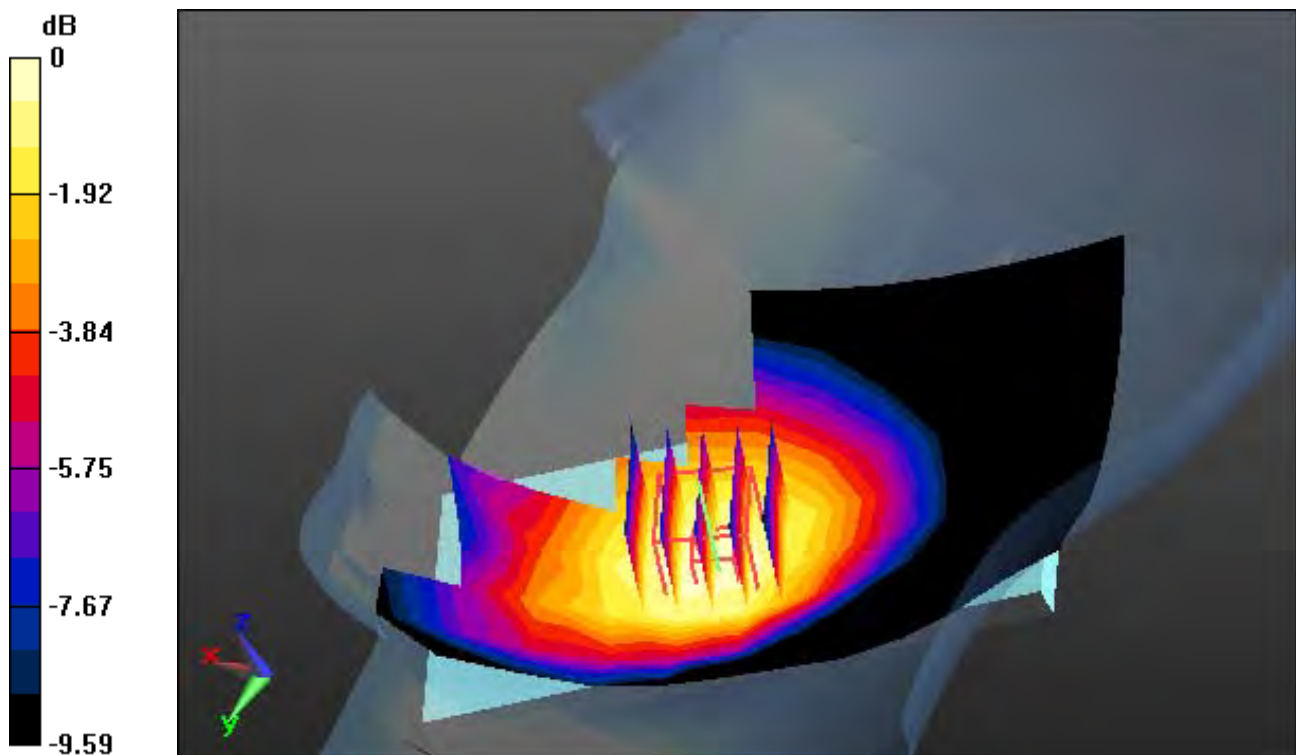
Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

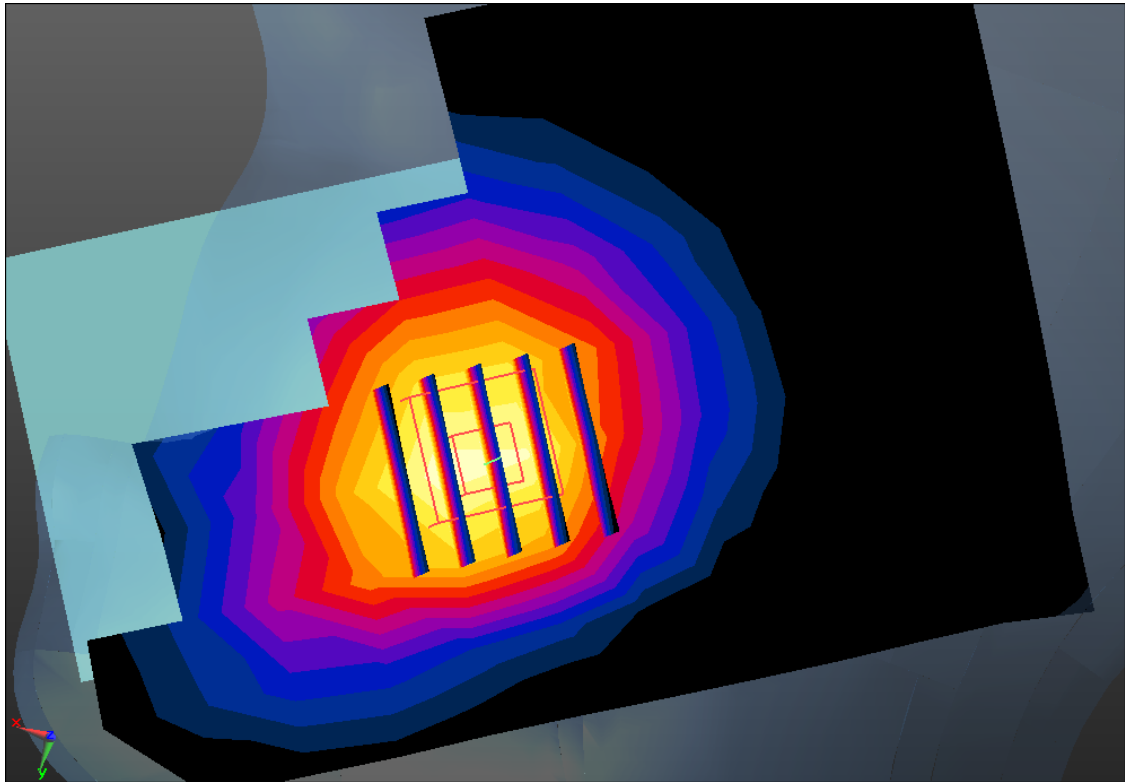
Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.107 W/kg

SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.063 W/kg



0 dB = 0.0965 W/kg



Enlarged Plot for A1

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

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

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.888 \text{ S/m}$; $\epsilon_r = 40.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(10.55, 10.55, 10.55); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (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: 2018-03-16; Ambient Temp: 22.5; Tissue Temp: 22.3

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

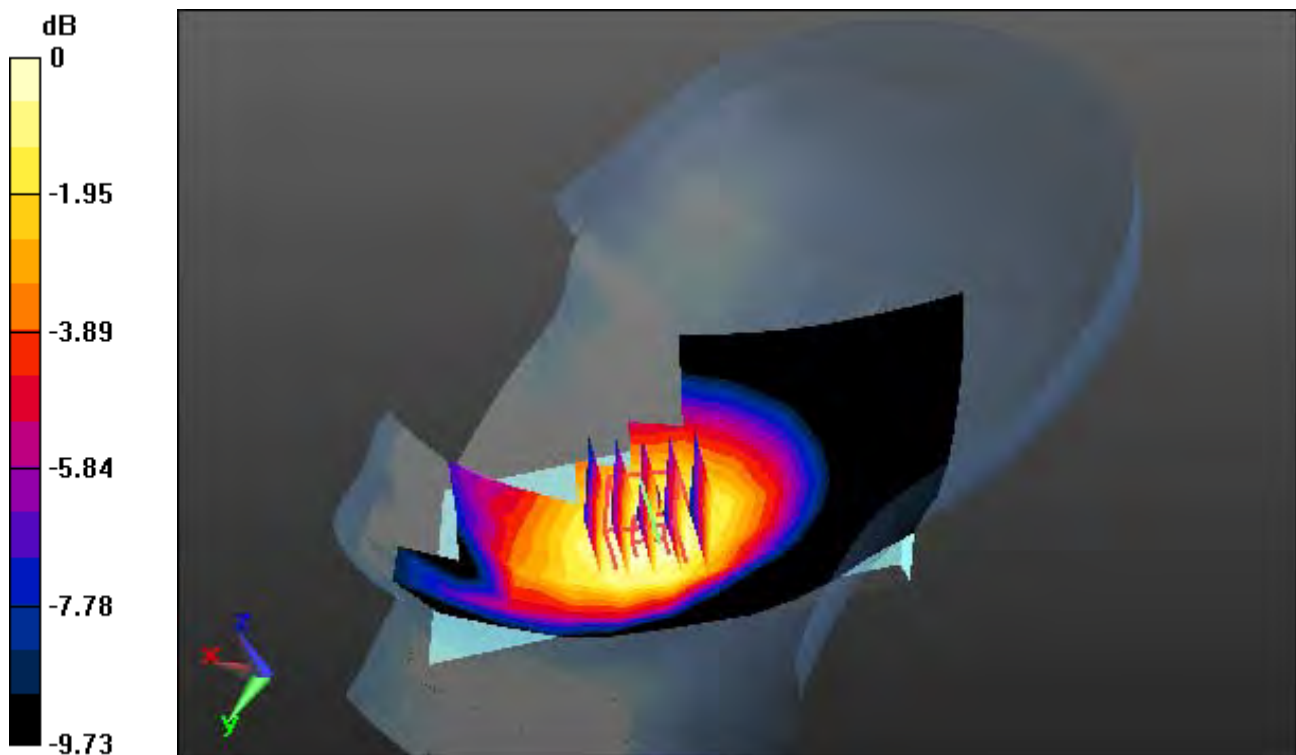
Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

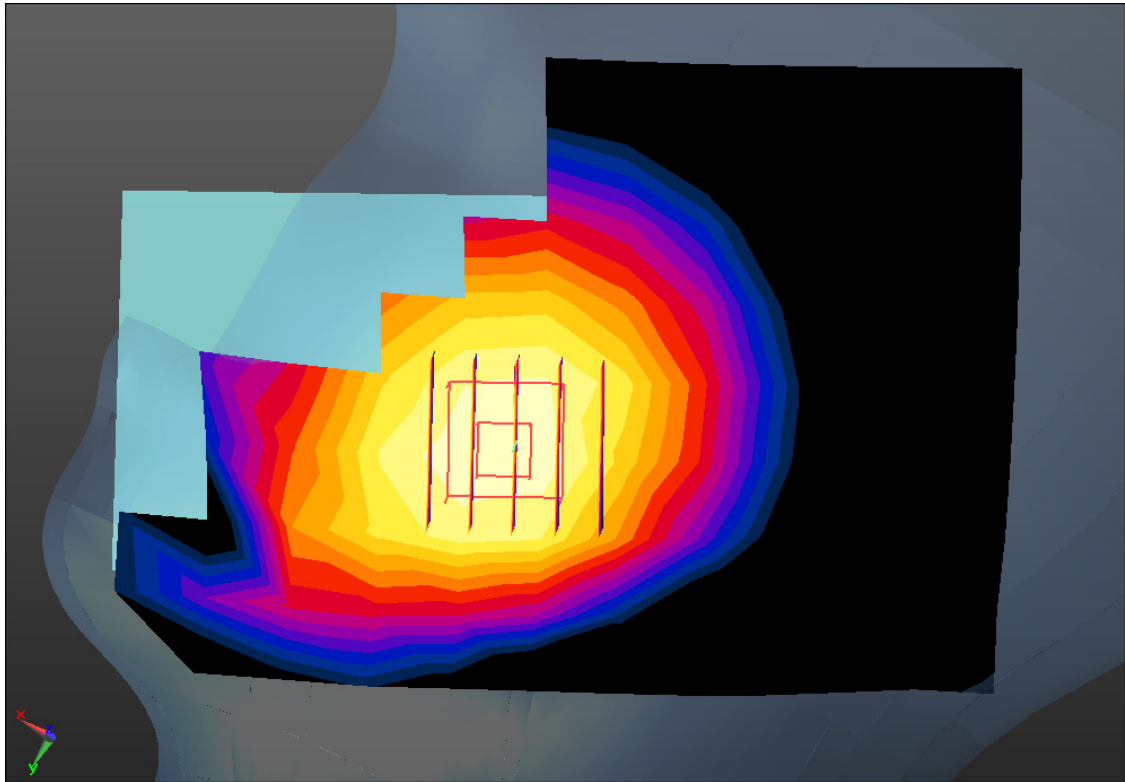
Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.137 W/kg

SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.073 W/kg



0 dB = 0.113 W/kg



Enlarged Plot for A2

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.412$ S/m; $\epsilon_r = 38.909$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(8.95, 8.95, 8.95); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (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: 2018-03-08; Ambient Temp: 21.8; Tissue Temp: 21.5

Right Tilt, PCS1900 Ch. 661, Ant Internal, Standard Battery

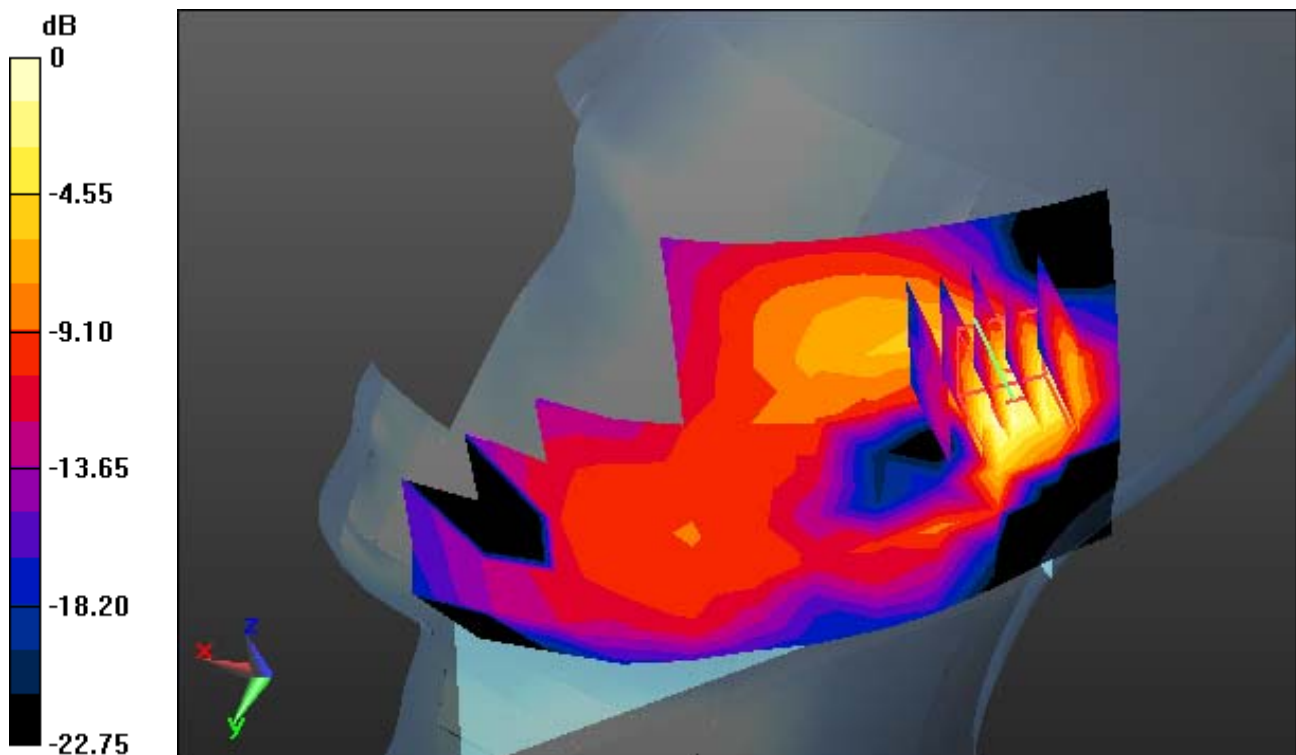
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

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

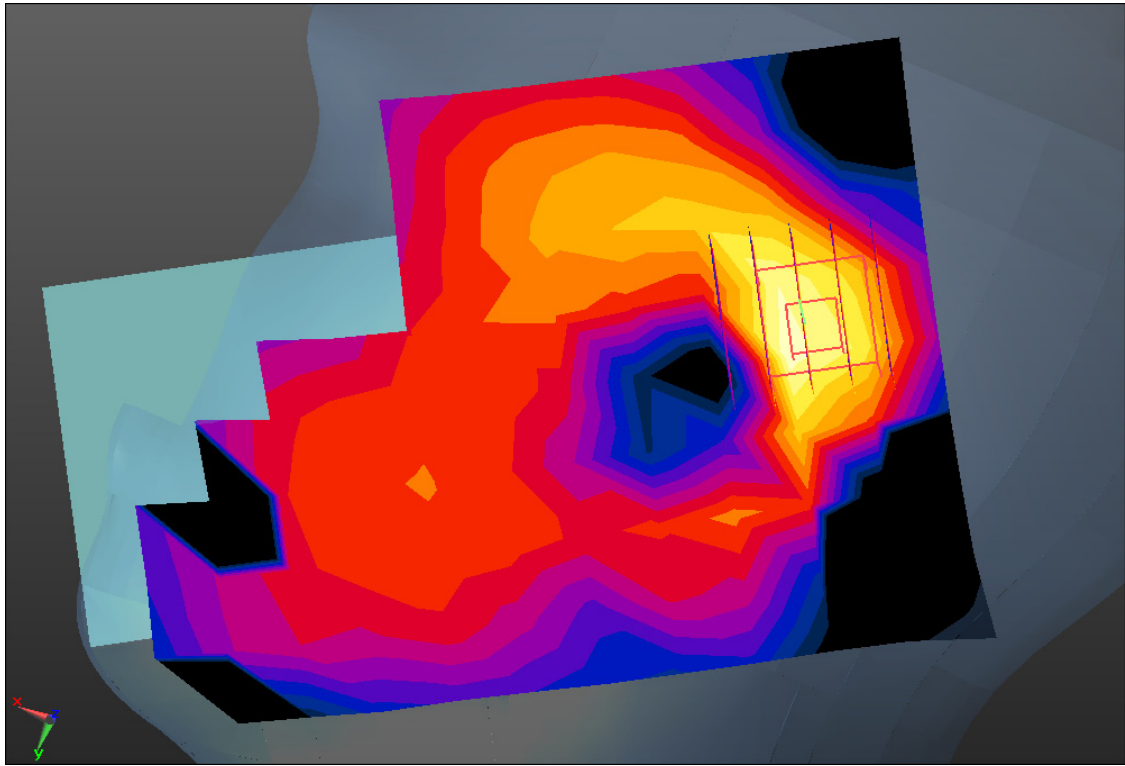
Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.138 W/kg

SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.035 W/kg



0 dB = 0.0929 W/kg



Enlarged Plot for A3

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, PCS1900_Class 10 (0); Frequency: 1880 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.412$ S/m; $\epsilon_r = 38.909$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(8.95, 8.95, 8.95); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (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: 2018-03-08; Ambient Temp: 21.8; Tissue Temp: 21.5

Right Touch, PCS1900 GPRS 2 Tx Ch. 661, Ant Internal, Standard Battery

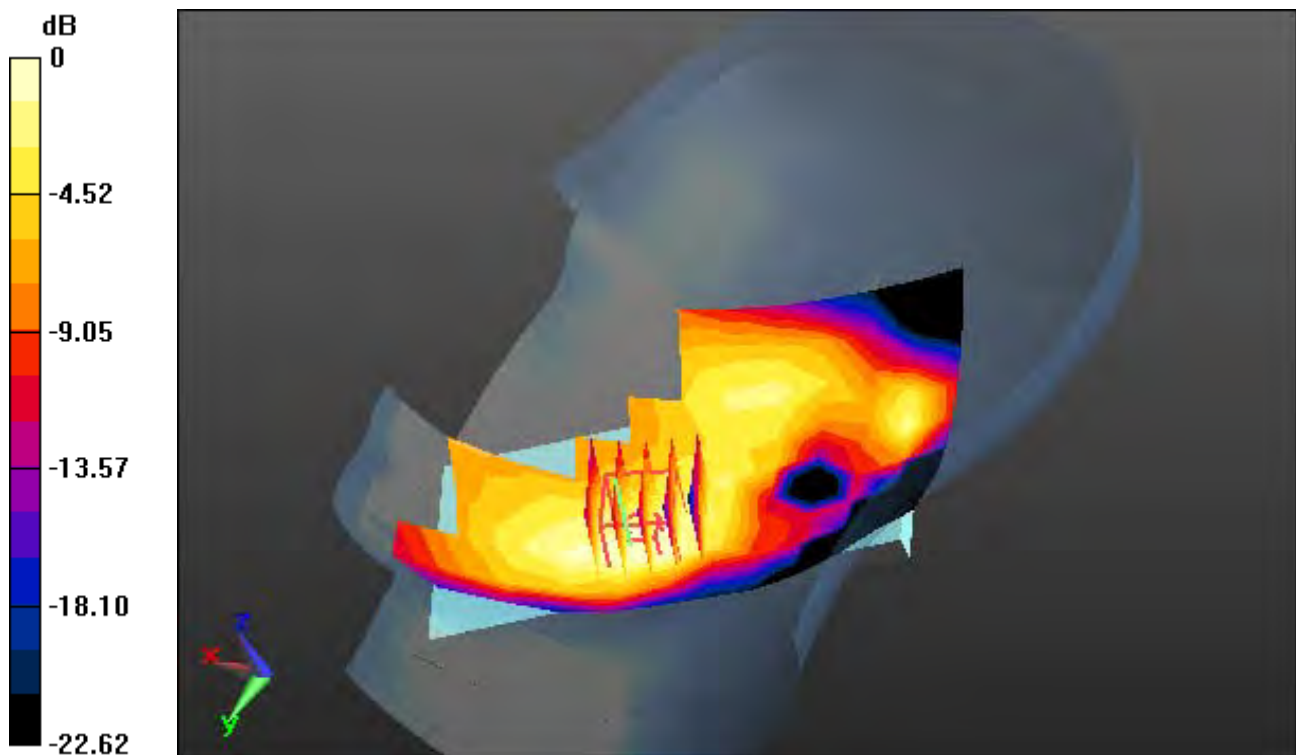
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

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

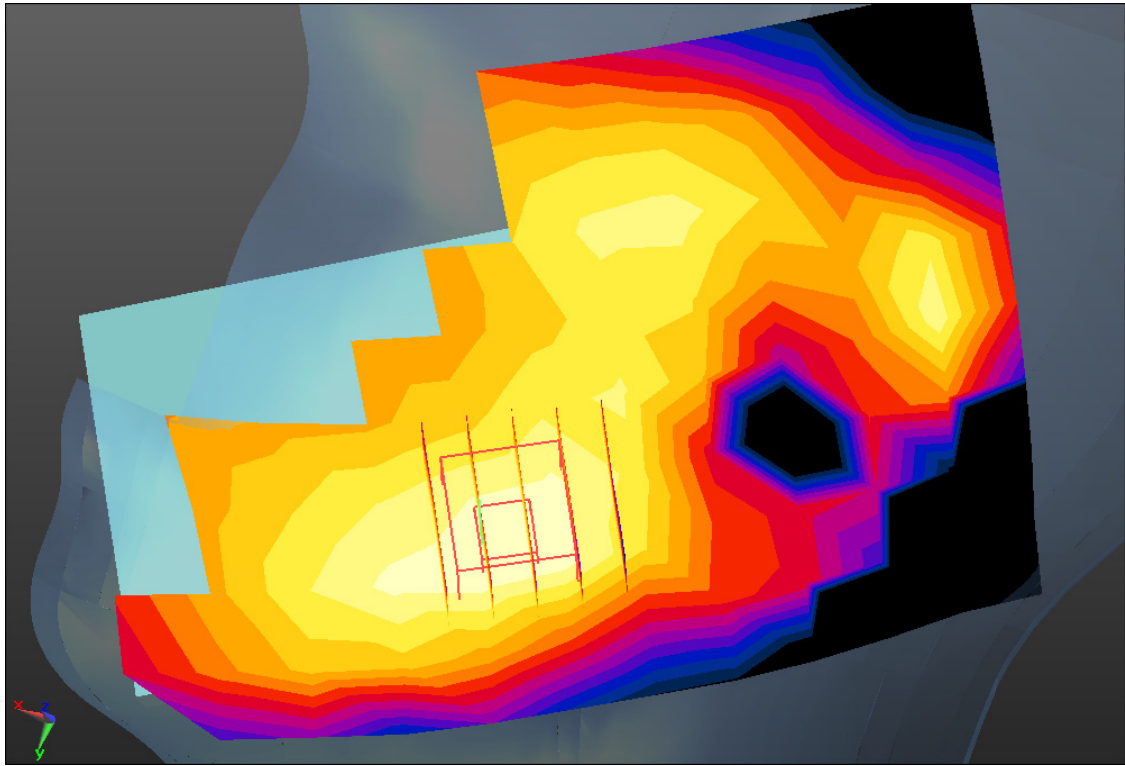
Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.174 W/kg

SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.073 W/kg



0 dB = 0.147 W/kg



Enlarged Plot for A4

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

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

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.888 \text{ S/m}$; $\epsilon_r = 40.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(10.55, 10.55, 10.55); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (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: 2018-03-16; Ambient Temp: 22.5; Tissue Temp: 22.3

Right Touch, WCDMA Band 5 Ch. 4183, Ant Internal, Standard Battery

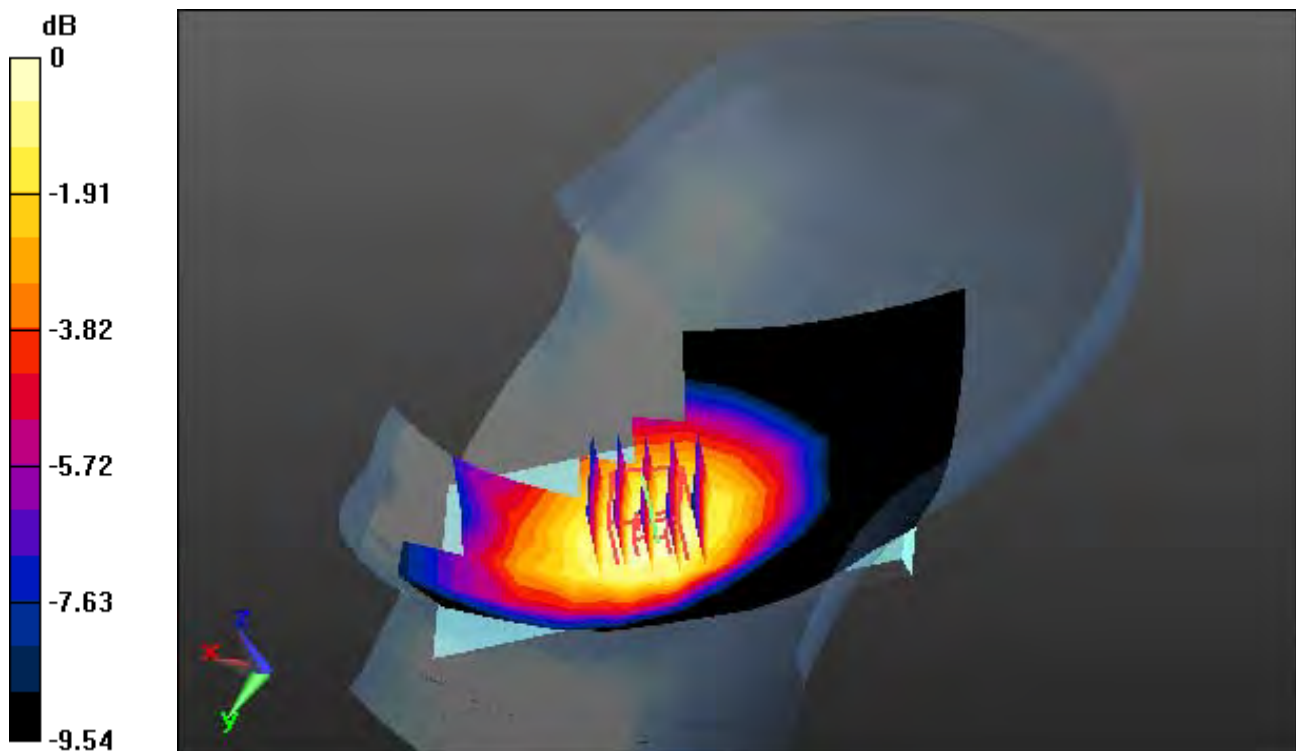
Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

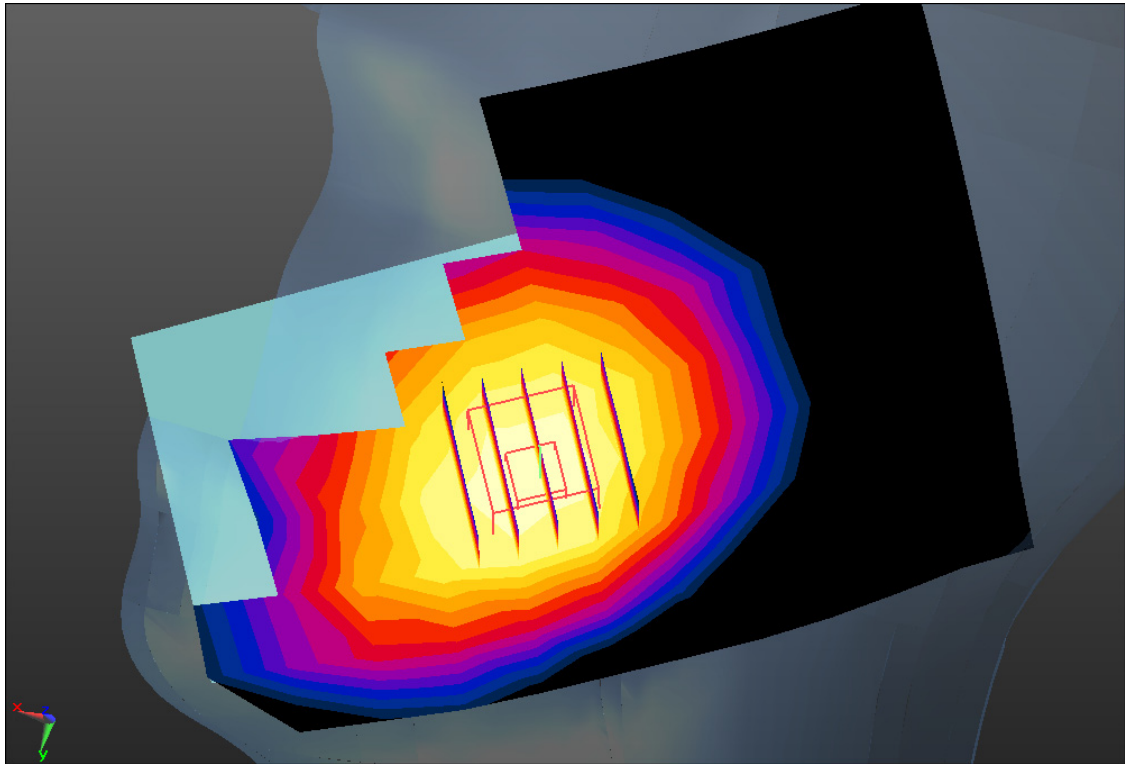
Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.142 W/kg

SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.083 W/kg



0 dB = 0.128 W/kg



Enlarged Plot for A5

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, WCDMA Band 4 (FCC) (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1732.4$ MHz; $\sigma = 1.335$ S/m; $\epsilon_r = 40.311$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(9.32, 9.32, 9.32); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (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: 2018-03-12; Ambient Temp: 21.8; Tissue Temp: 21.6

Right Tilt, WCDMA Band 4 Ch. 1412, Ant Internal, Standard Battery

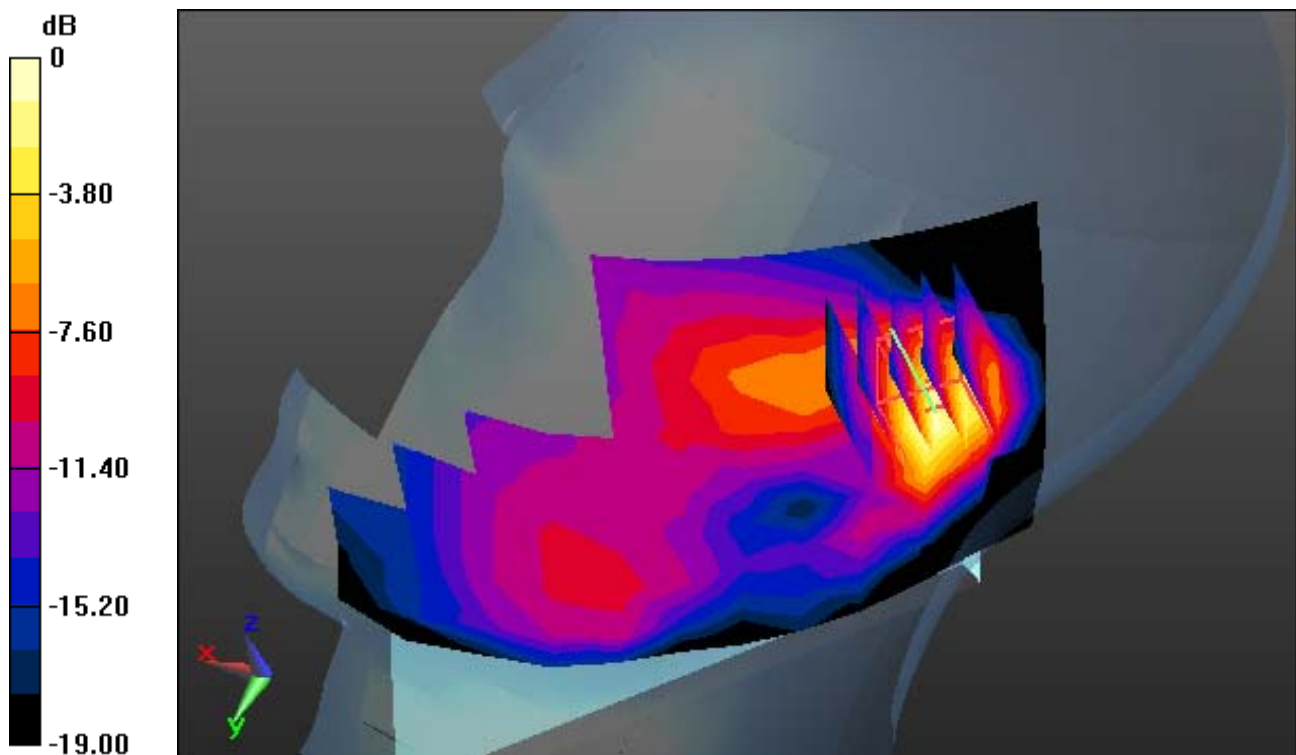
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

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

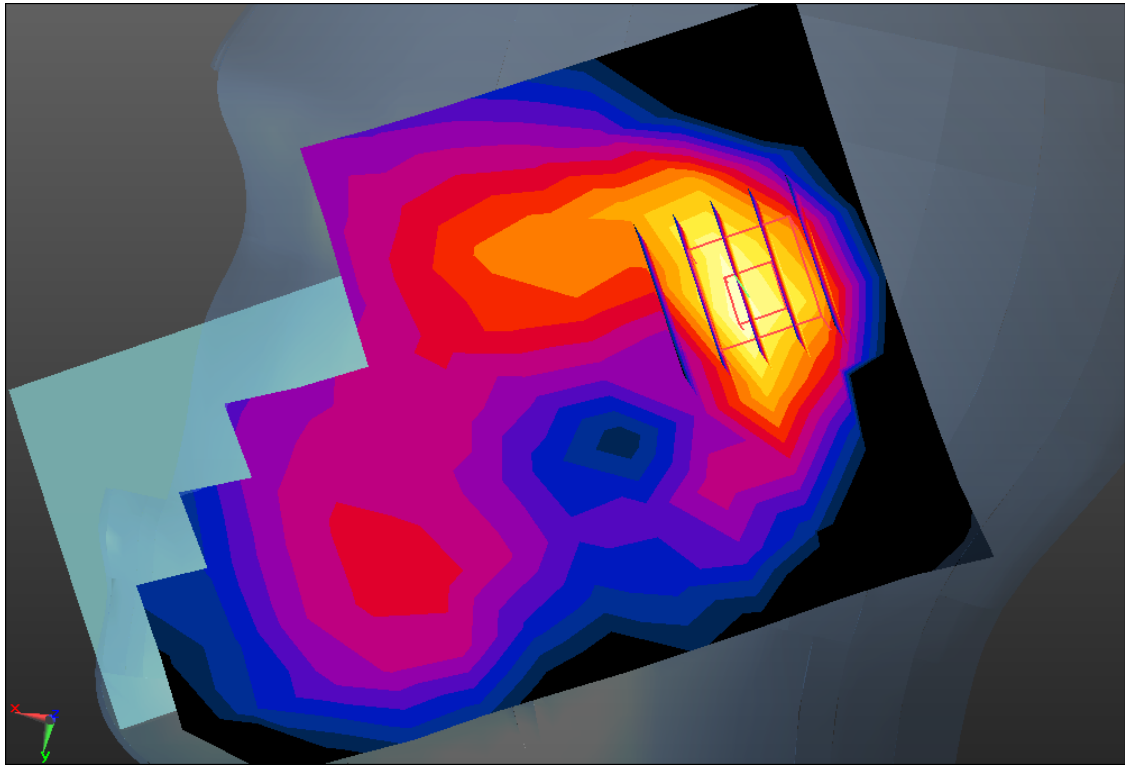
Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.355 W/kg

SAR(1 g) = 0.185 W/kg; SAR(10 g) = 0.090 W/kg



0 dB = 0.238 W/kg



Enlarged Plot for A6

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.412$ S/m; $\epsilon_r = 38.909$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(8.95, 8.95, 8.95); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (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: 2018-03-08; Ambient Temp: 21.8; Tissue Temp: 21.5

Right Touch, WCDMA Band 2 Ch. 9400, Ant Internal, Standard Battery

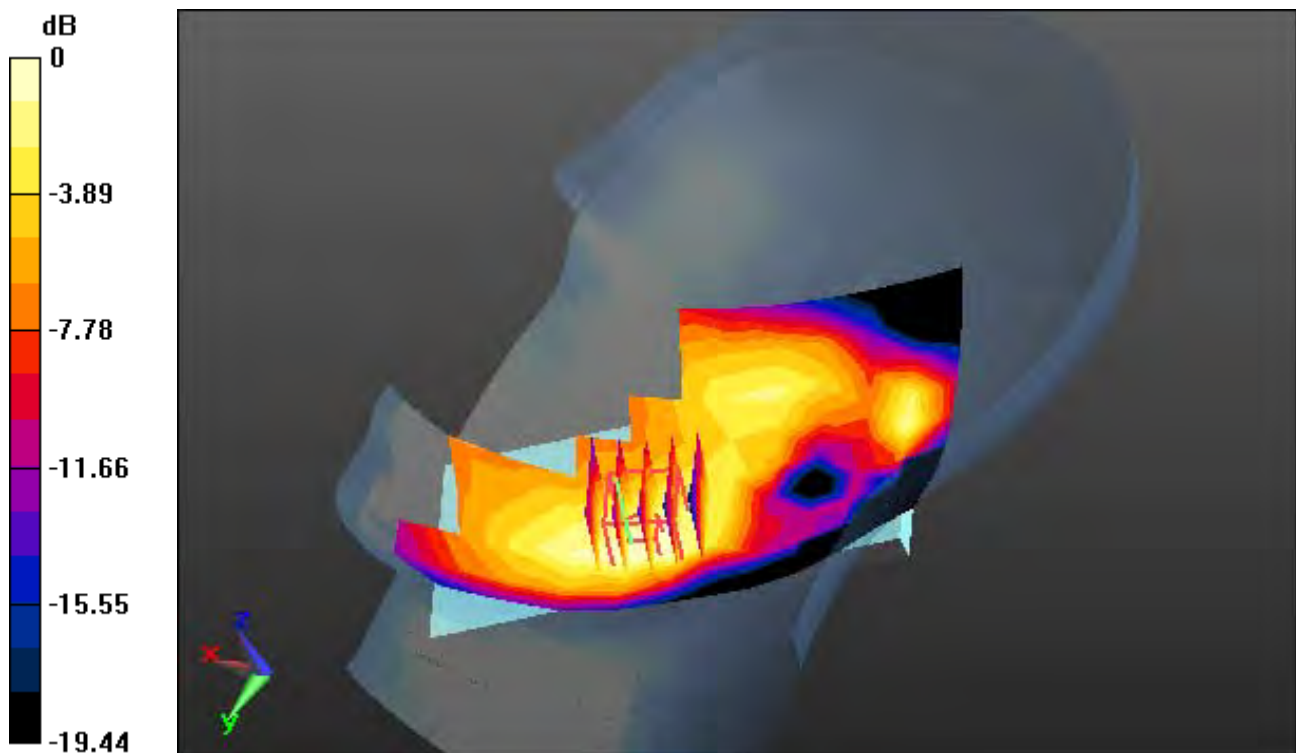
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

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

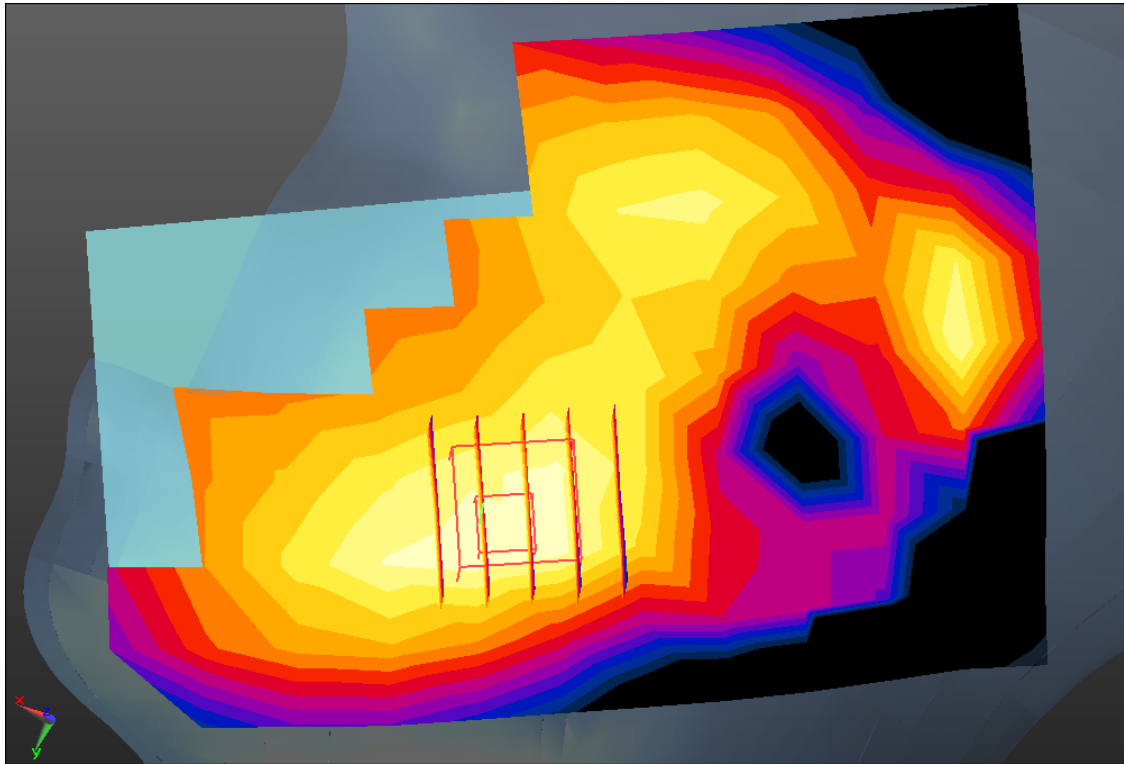
Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.109 W/kg



0 dB = 0.217 W/kg



Enlarged Plot for A7

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, LTE Band 12 (FCC) (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 707.5 \text{ MHz}$; $\sigma = 0.863 \text{ S/m}$; $\epsilon_r = 42.73$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(11.05, 11.05, 11.05); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (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: 2018-03-14; Ambient Temp: 21.3; Tissue Temp: 21.2

Right Touch, LTE Band 12 Ch. 23095, Ant Internal, Standard Battery

Mode : BandWidth 10 MHz, QPSK, RB Size: 1

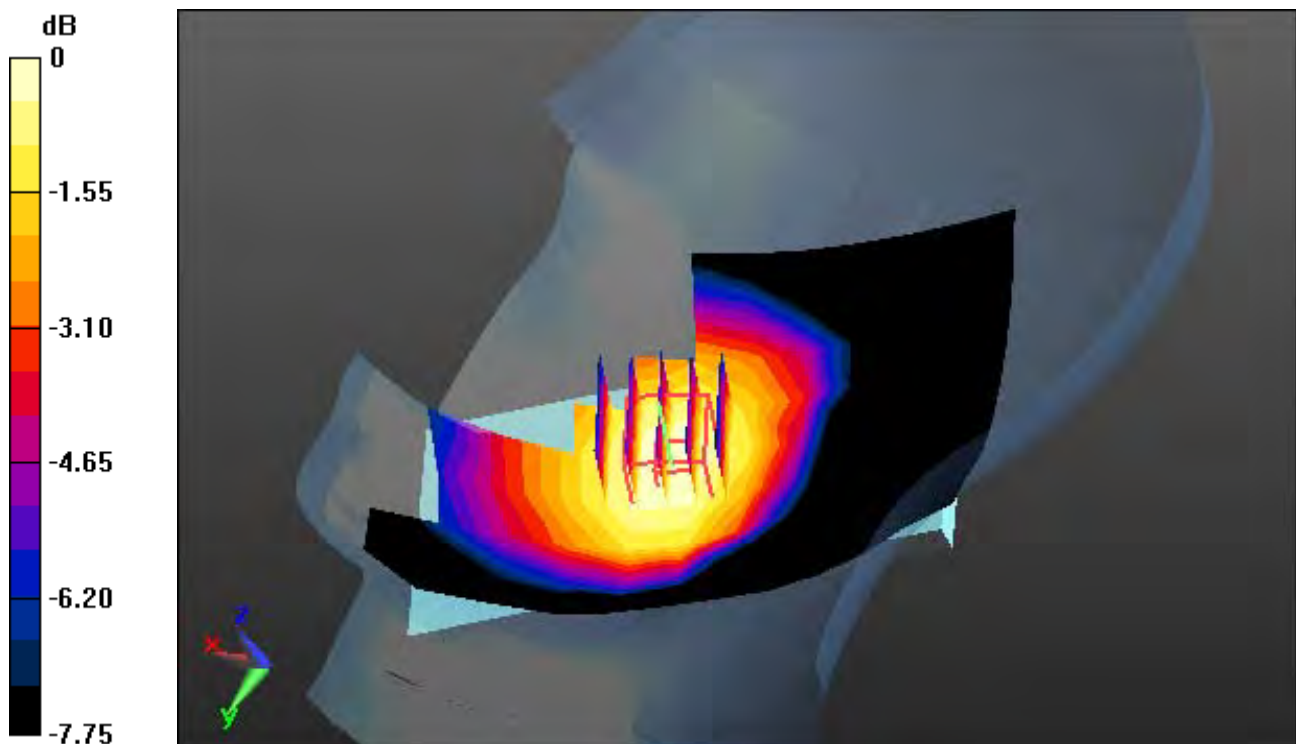
Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

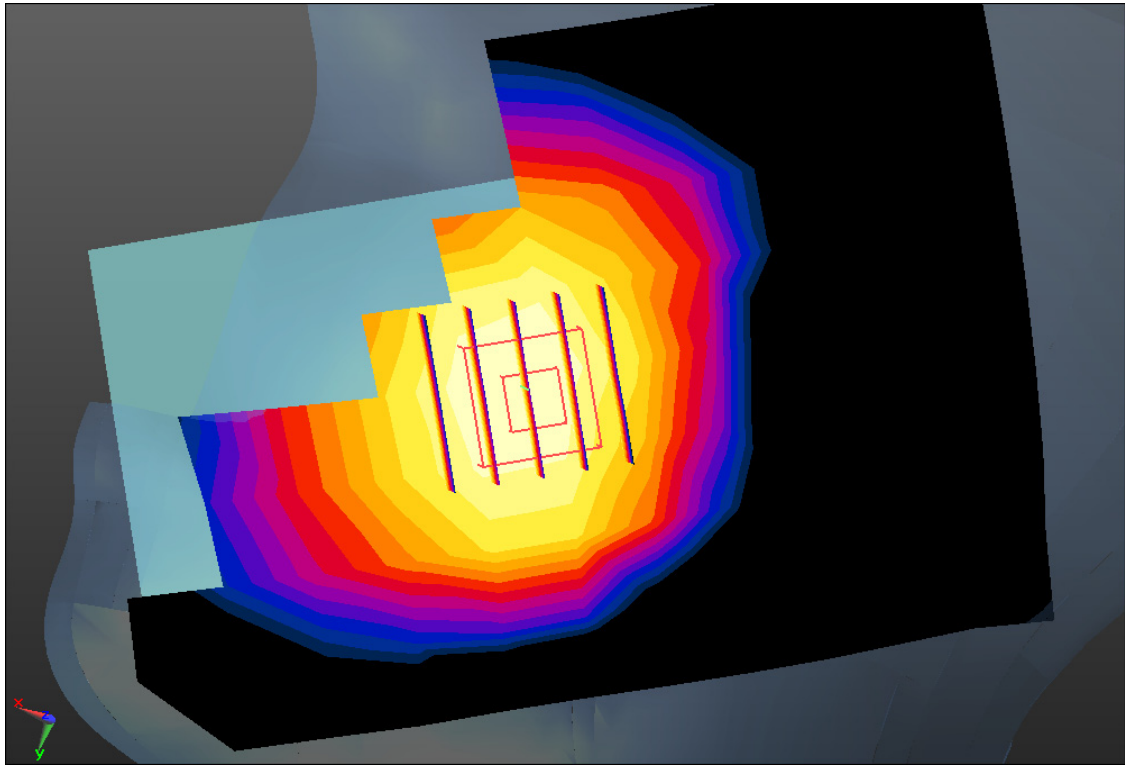
Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.0390 W/kg

SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.025 W/kg



0 dB = 0.0358 W/kg



Enlarged Plot for A8

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 41.652$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(11.05, 11.05, 11.05); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (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: 2018-03-14; Ambient Temp: 21.3; Tissue Temp: 21.2

Right Touch, LTE Band 13 Ch. 23230, Ant Internal, Standard Battery

Mode : BandWidth 10 MHz, QPSK, RB Size: 1

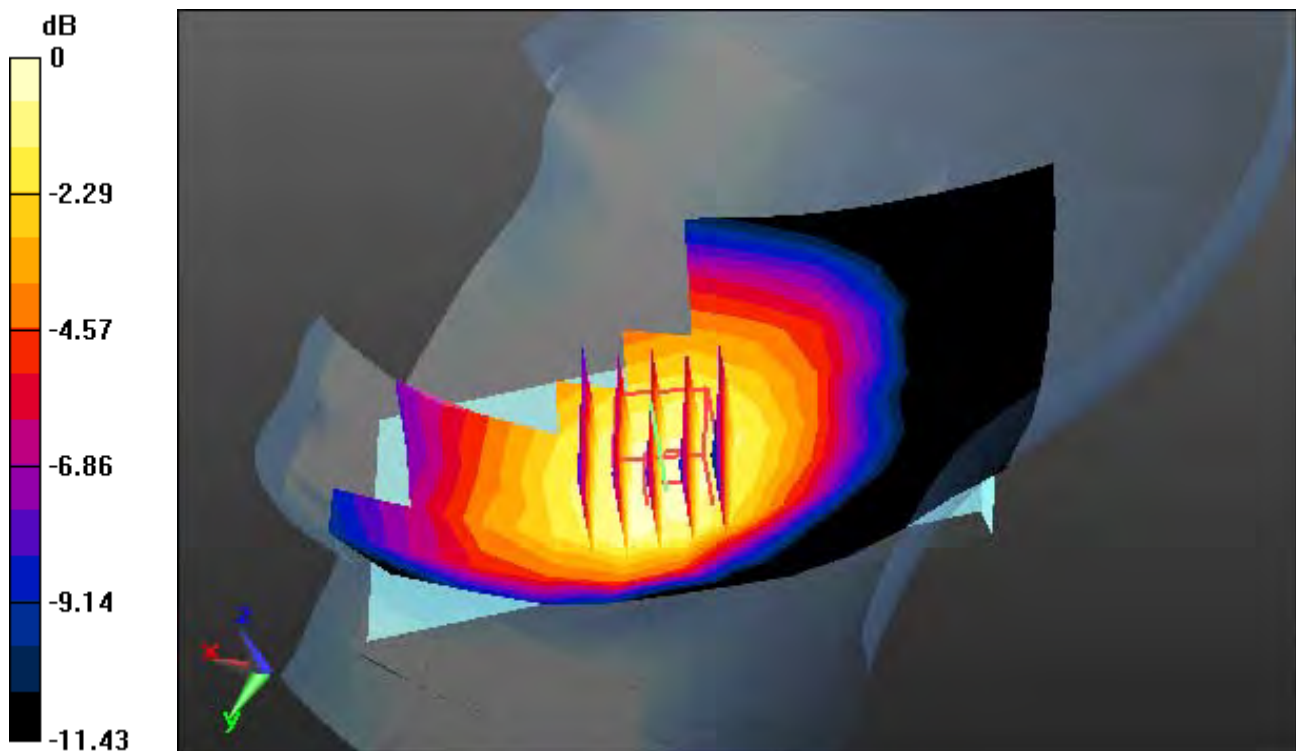
Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (6x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

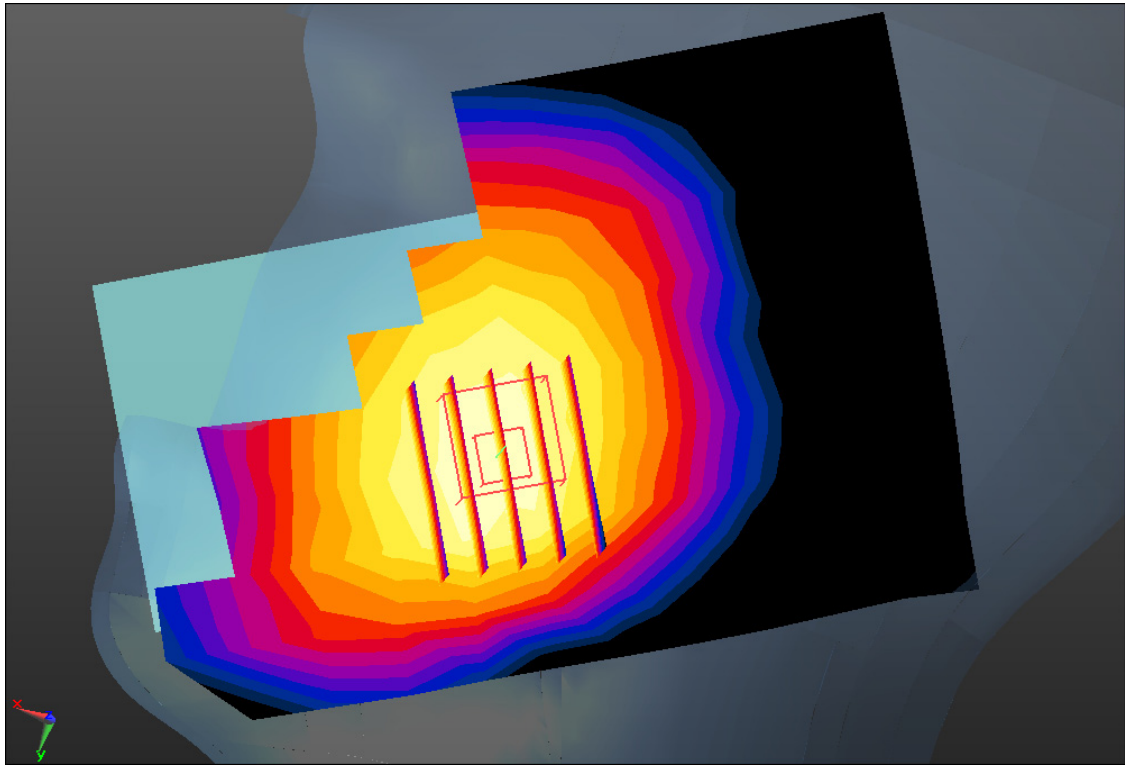
Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.0620 W/kg

SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.037 W/kg



0 dB = 0.0563 W/kg



Enlarged Plot for A9

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, LTE Band 5 (FCC) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.5 \text{ MHz}$; $\sigma = 0.888 \text{ S/m}$; $\epsilon_r = 40.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(10.55, 10.55, 10.55); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (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: 2018-03-16; Ambient Temp: 22.5; Tissue Temp: 22.3

Right Touch, LTE Band 5 Ch. 20525, Ant Internal, Standard Battery

Mode : BandWidth 10 MHz, QPSK, RB Size: 1

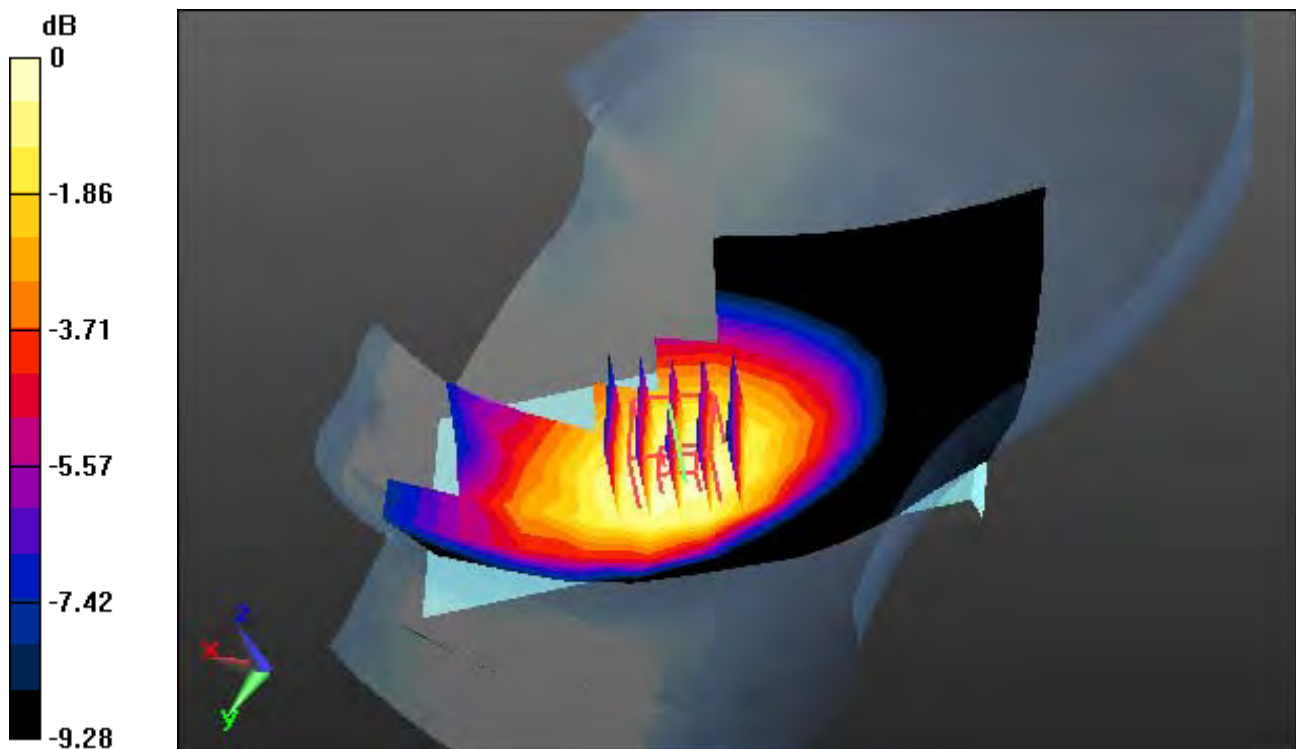
Area Scan (9x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

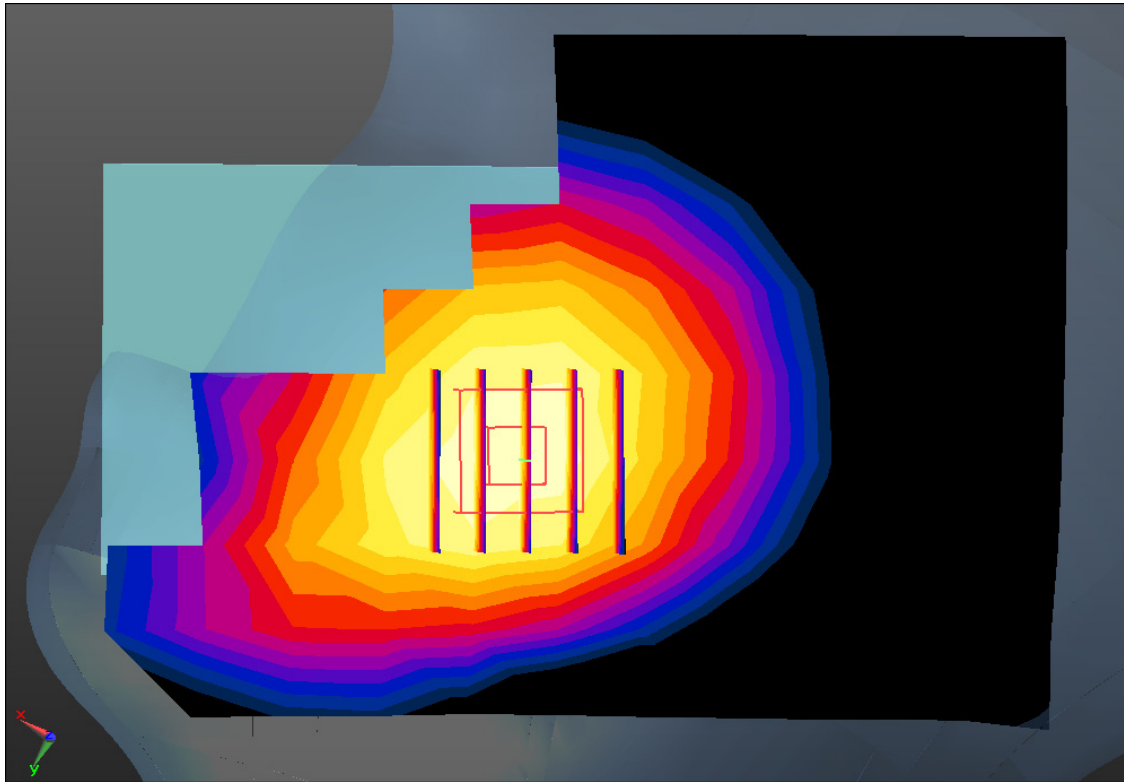
Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.148 W/kg

SAR(1 g) = 0.116 W/kg; SAR(10 g) = 0.088 W/kg



0 dB = 0.134 W/kg



Enlarged Plot for A10

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, LTE Band 4 (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1732.5$ MHz; $\sigma = 1.335$ S/m; $\epsilon_r = 40.31$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(9.32, 9.32, 9.32); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (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: 2018-03-12; Ambient Temp: 21.8; Tissue Temp: 21.6

Right Tilt, LTE Band 4 Ch. 20175, Ant Internal, Standard Battery

Mode : BandWidth 20 MHz, QPSK, RB Size: 1

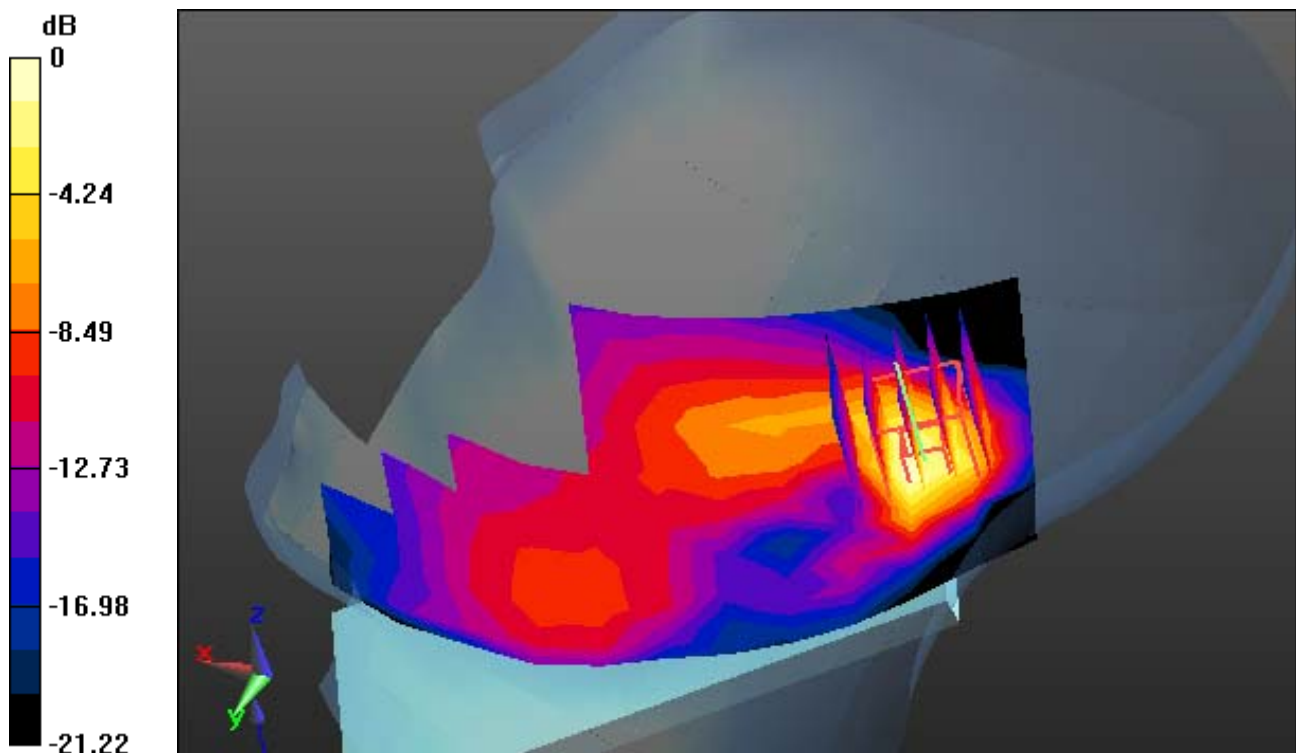
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

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

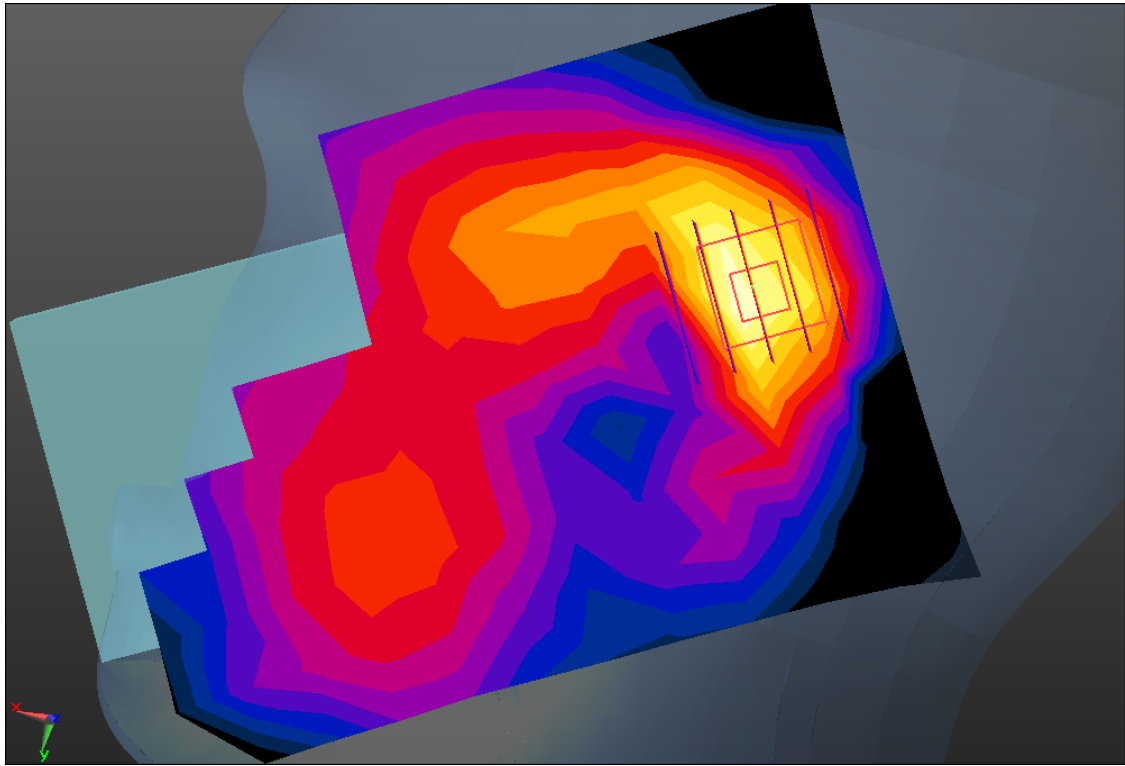
Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.314 W/kg

SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.079 W/kg



0 dB = 0.214 W/kg



Enlarged Plot for A11

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, LTE Band 2 (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.428$ S/m; $\epsilon_r = 38.811$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN3933; ConvF(8.95, 8.95, 8.95); Calibrated: 9/28/2017; Electronics: DAE4 Sn1396

Sensor-Surface: 2mm (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: 2018-03-08; Ambient Temp: 21.8; Tissue Temp: 21.5

Right Touch, LTE Band 2 Ch. 19100, Ant Internal, Standard Battery

Mode : BandWidth 20 MHz, QPSK, RB Size: 1

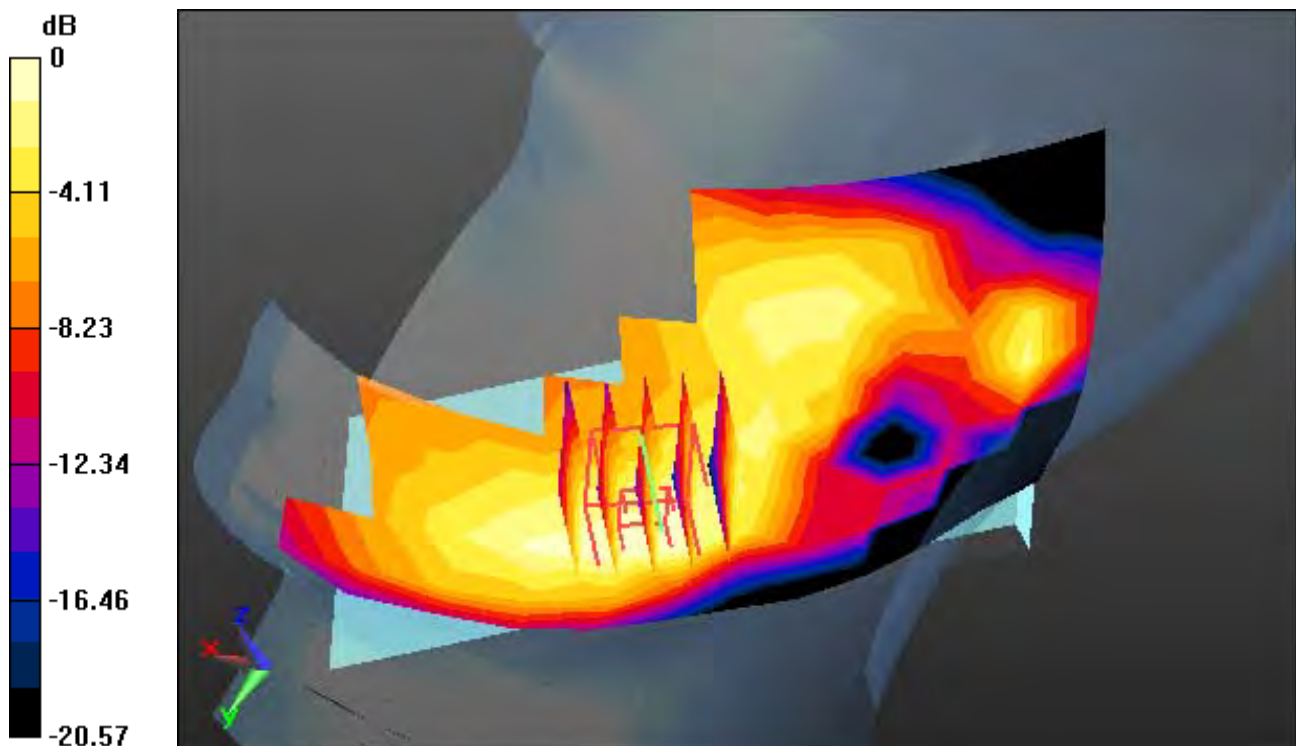
Area Scan (9x13x1): Measurement grid: dx=15mm, dy=15mm

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

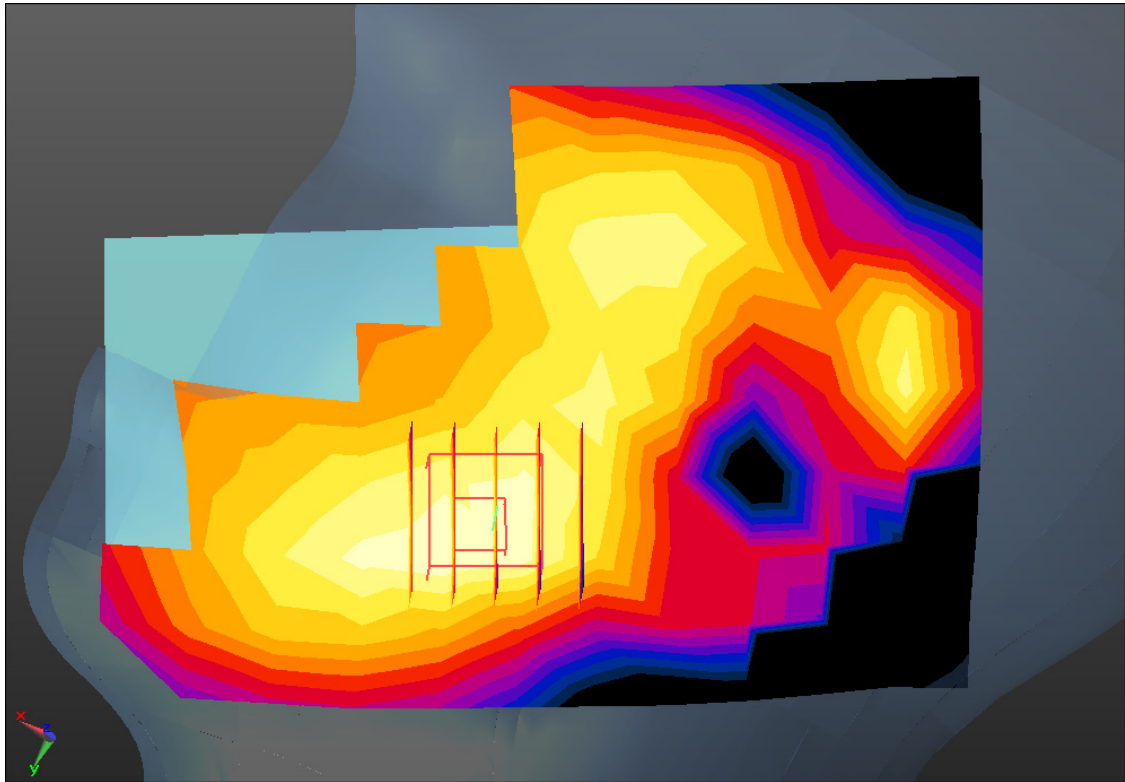
Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.199 W/kg

SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.085 W/kg



0 dB = 0.168 W/kg



Enlarged Plot for A12

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, LTE Band 7 (FCC) (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.937$ S/m; $\epsilon_r = 38.57$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(4.57, 4.57, 4.57); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394

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: 2018-03-09; Ambient Temp: 21.2; Tissue Temp: 21.0

Left Touch, LTE Band 7 Ch. 21350, Ant Internal, Standard Battery

Mode : BandWidth 20 MHz, QPSK, RB Size: 1

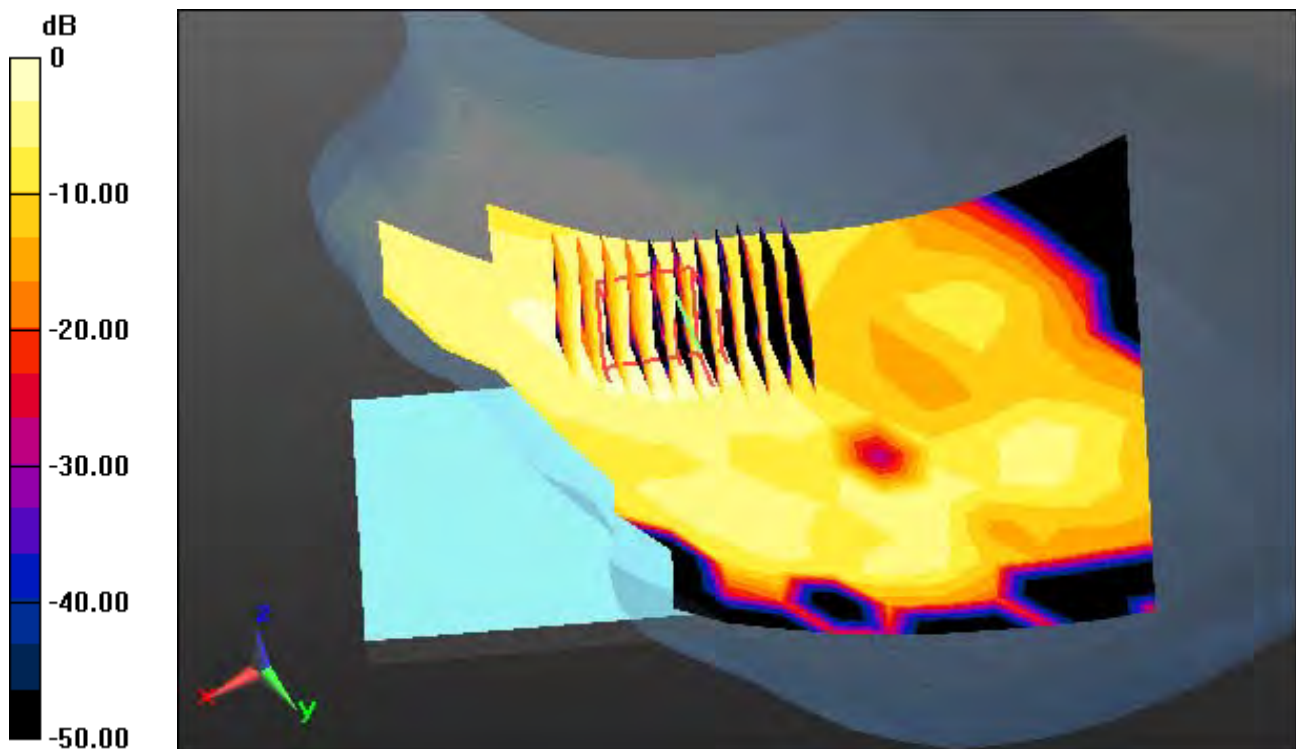
Area Scan (11x16x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x11x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

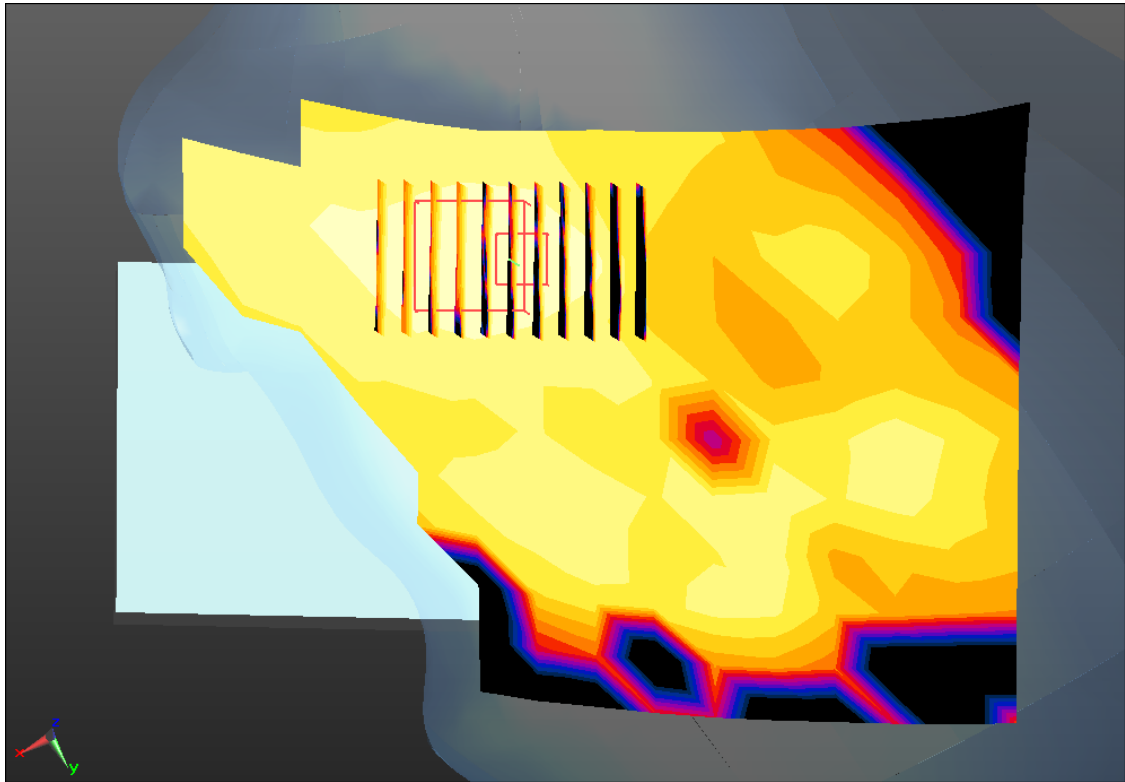
Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0410 W/kg

SAR(1 g) = 0.021 W/kg; SAR(10 g) = 0.00881 W/kg



0 dB = 0.0298 W/kg



Enlarged Plot for A13

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, LTE Band 41(TDD) (0); Frequency: 2506 MHz; Duty Cycle: 1:1.58

Medium parameters used: $f = 2506$ MHz; $\sigma = 1.878$ S/m; $\epsilon_r = 38.751$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: ES3DV3 - SN3328; ConvF(4.57, 4.57, 4.57); Calibrated: 3/21/2017; Electronics: DAE4 Sn1394
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: 2018-03-09; Ambient Temp: 21.2; Tissue Temp: 21.0

Left Touch, LTE Band 41 Ch. 39750, Ant Internal, Standard Battery

Mode : BandWidth 20 MHz, QPSK, RB Size: 1

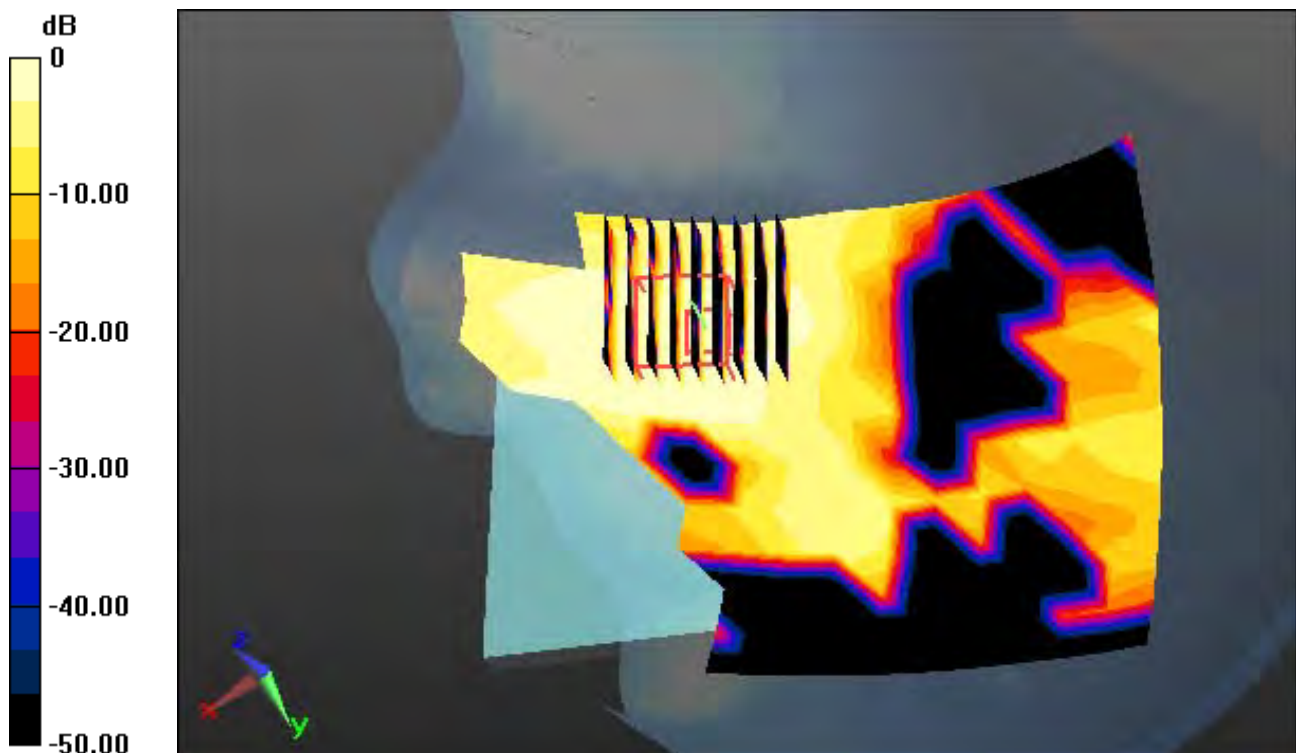
Area Scan (11x16x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (8x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

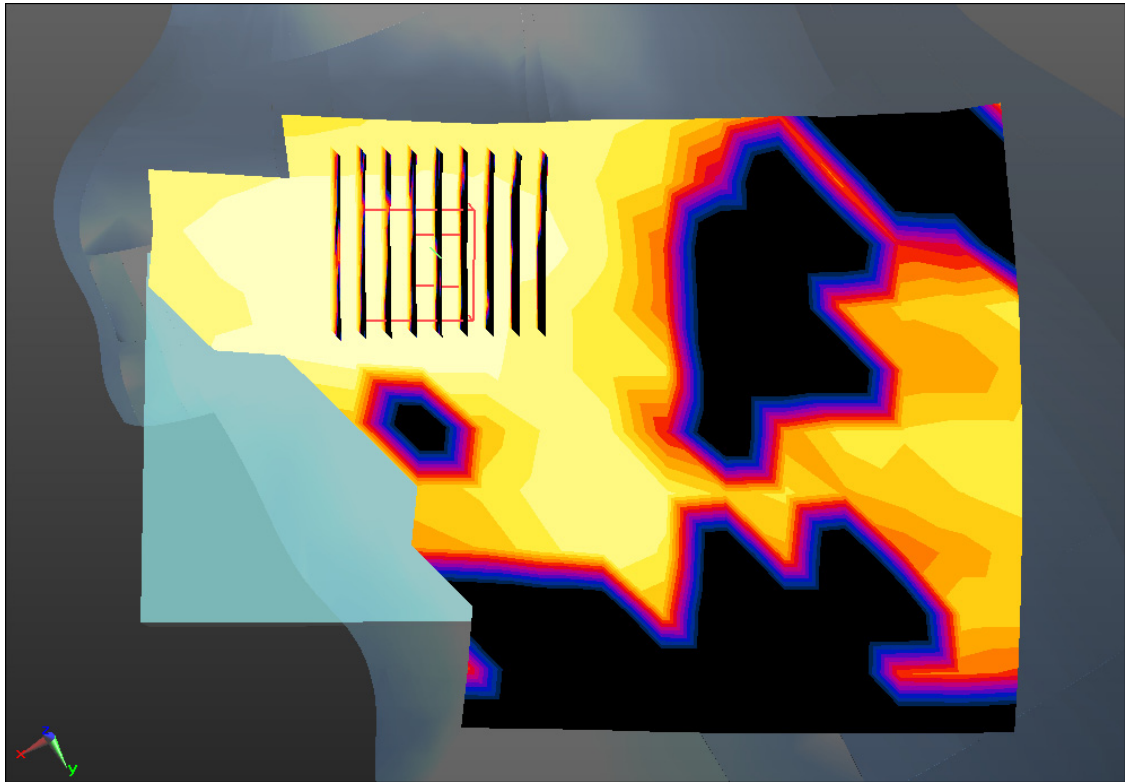
Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.0330 W/kg

SAR(1 g) = 0.010 W/kg; SAR(10 g) = 0.00419 W/kg



0 dB = 0.0145 W/kg



Enlarged Plot for A14

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, 2.4 GHz W-LAN (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.815 \text{ S/m}$; $\epsilon_r = 39.579$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.7, 7.7, 7.7); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

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: 2018-03-06; Ambient Temp: 20.8; Tissue Temp: 21.8

Right Touch, WLAN(802.11b) Ch. 6, Ant Internal, Standard Battery, Ant.1

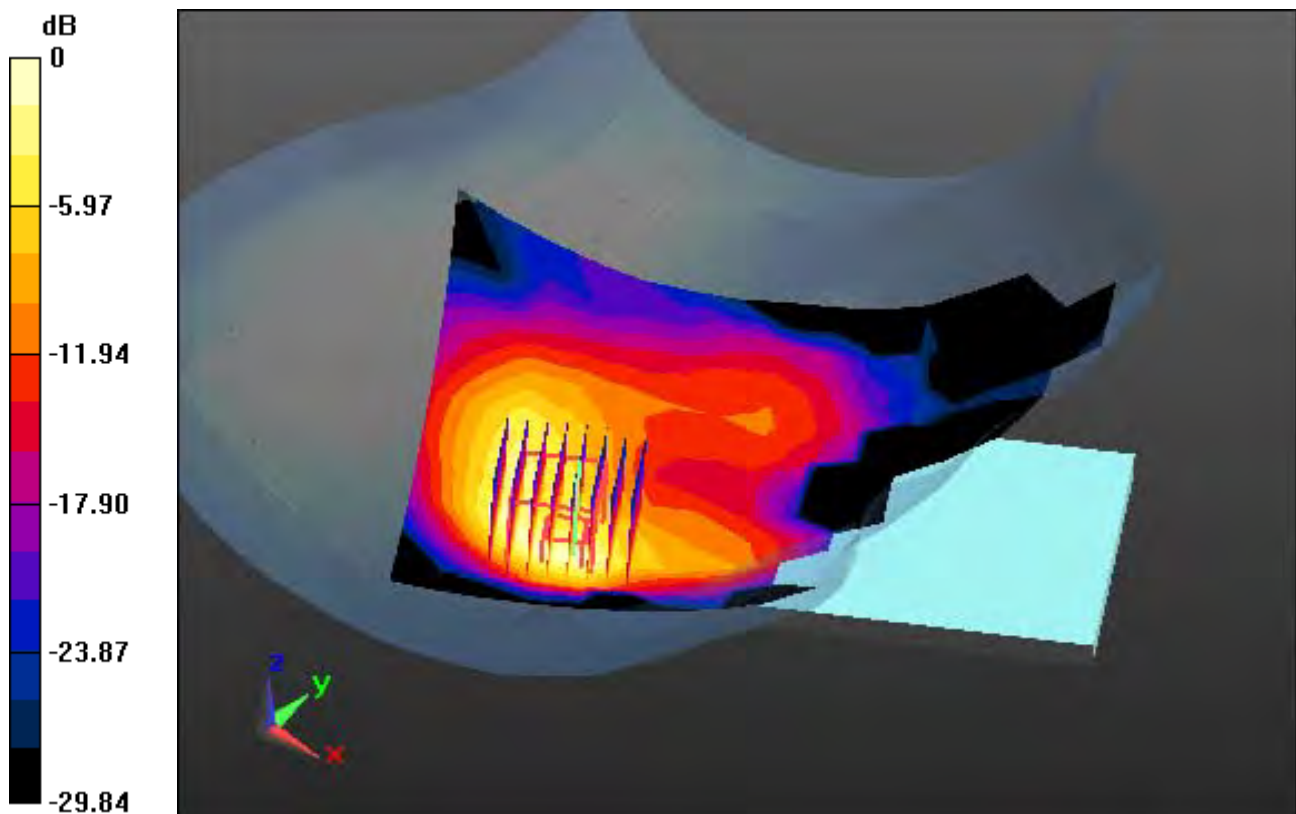
Area Scan (11x16x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x8x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

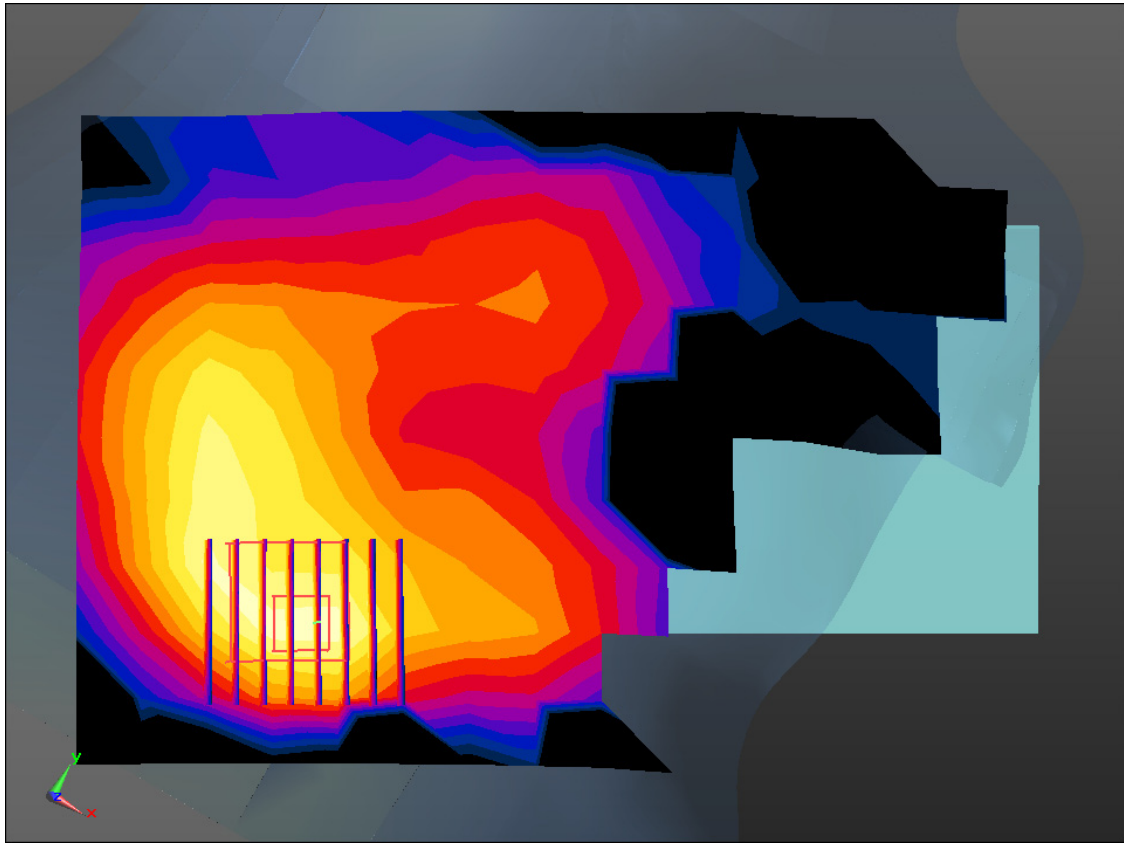
Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.660 W/kg

SAR(1 g) = 0.232 W/kg; SAR(10 g) = 0.098 W/kg



0 dB = 0.427 W/kg



Enlarged Plot for A15

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, 2.4 GHz W-LAN (0); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.787 \text{ S/m}$; $\epsilon_r = 39.661$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.7, 7.7, 7.7); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

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: 2018-03-06; Ambient Temp: 20.8; Tissue Temp: 21.8

Right Touch, WLAN(802.11b) Ch. 1, Ant Internal, Standard Battery, Ant.2

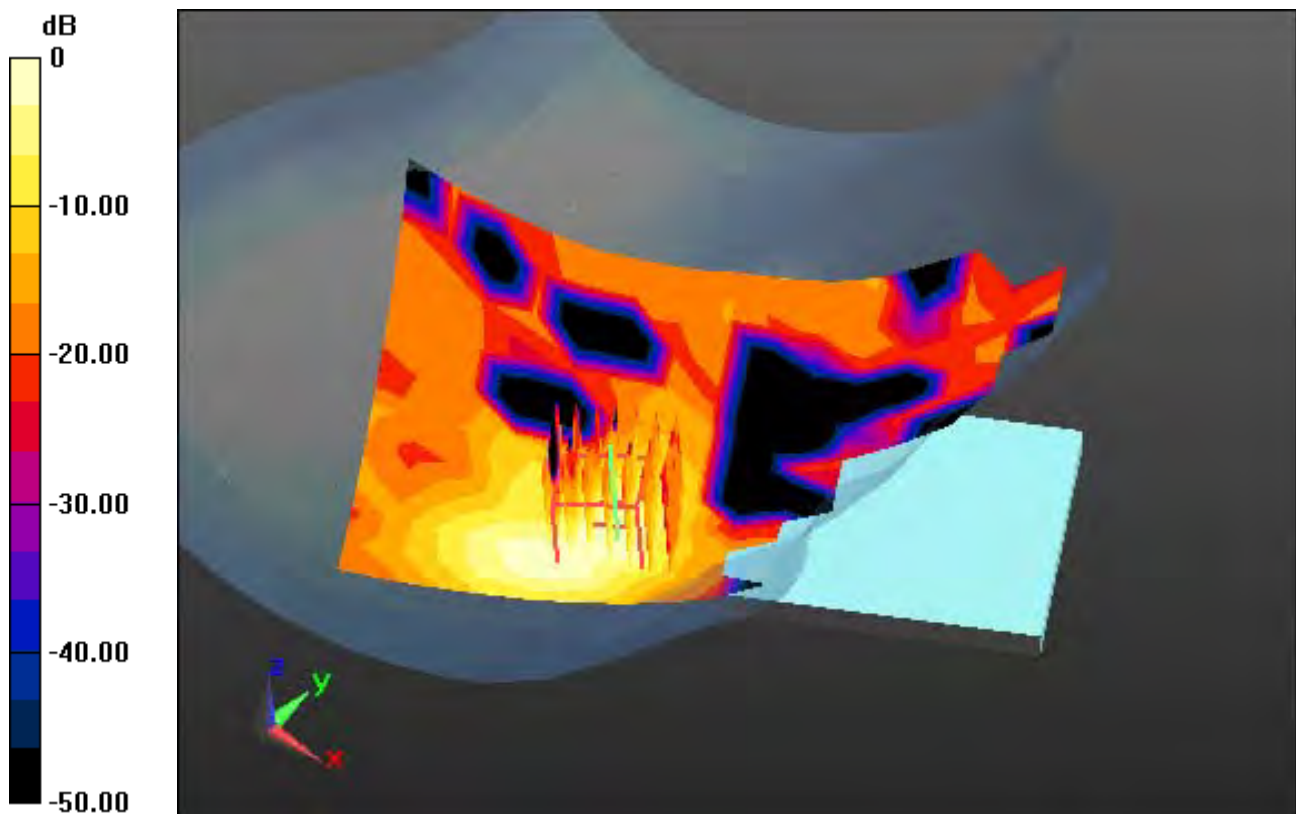
Area Scan (11x16x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

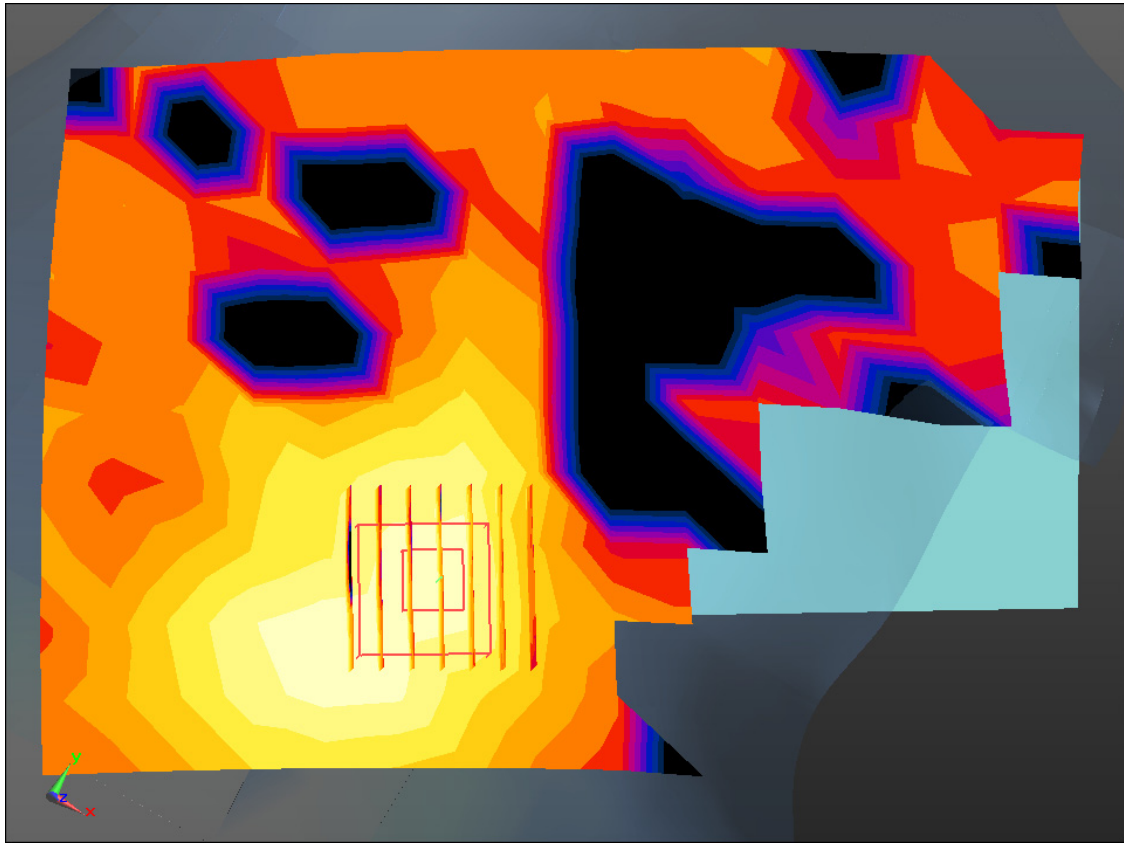
Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.110 W/kg

SAR(1 g) = 0.044 W/kg; SAR(10 g) = 0.018 W/kg



0 dB = 0.0700 W/kg



Enlarged Plot for A16

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, 2.4 GHz W-LAN (0); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.704$ S/m; $\epsilon_r = 40.637$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(7.7, 7.7, 7.7); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

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: 2018-04-27; Ambient Temp: 20.7; Tissue Temp: 21.2

Right Touch, WLAN(802.11g) Ch. 1, Ant Internal, Standard Battery, MIMO

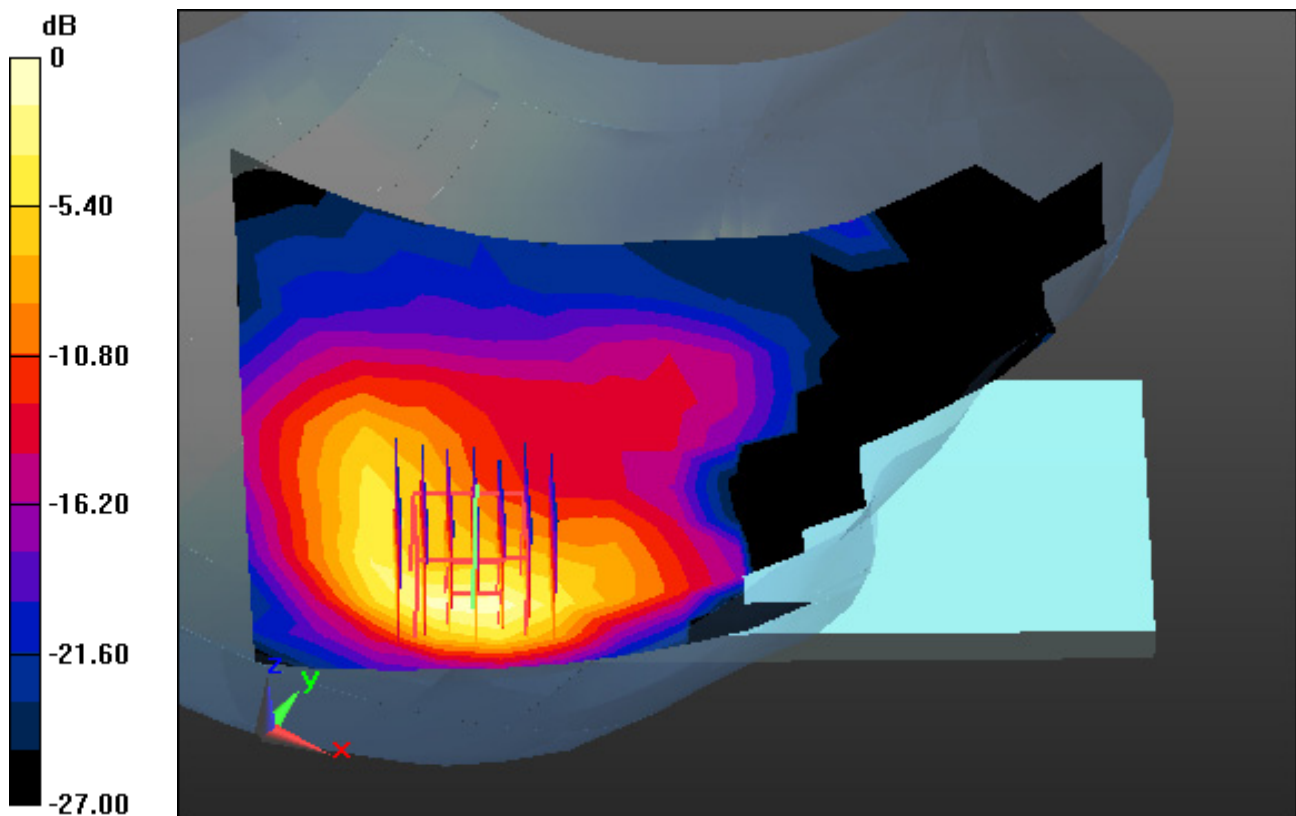
Area Scan (11x16x1): Measurement grid: dx=12mm, dy=12mm

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

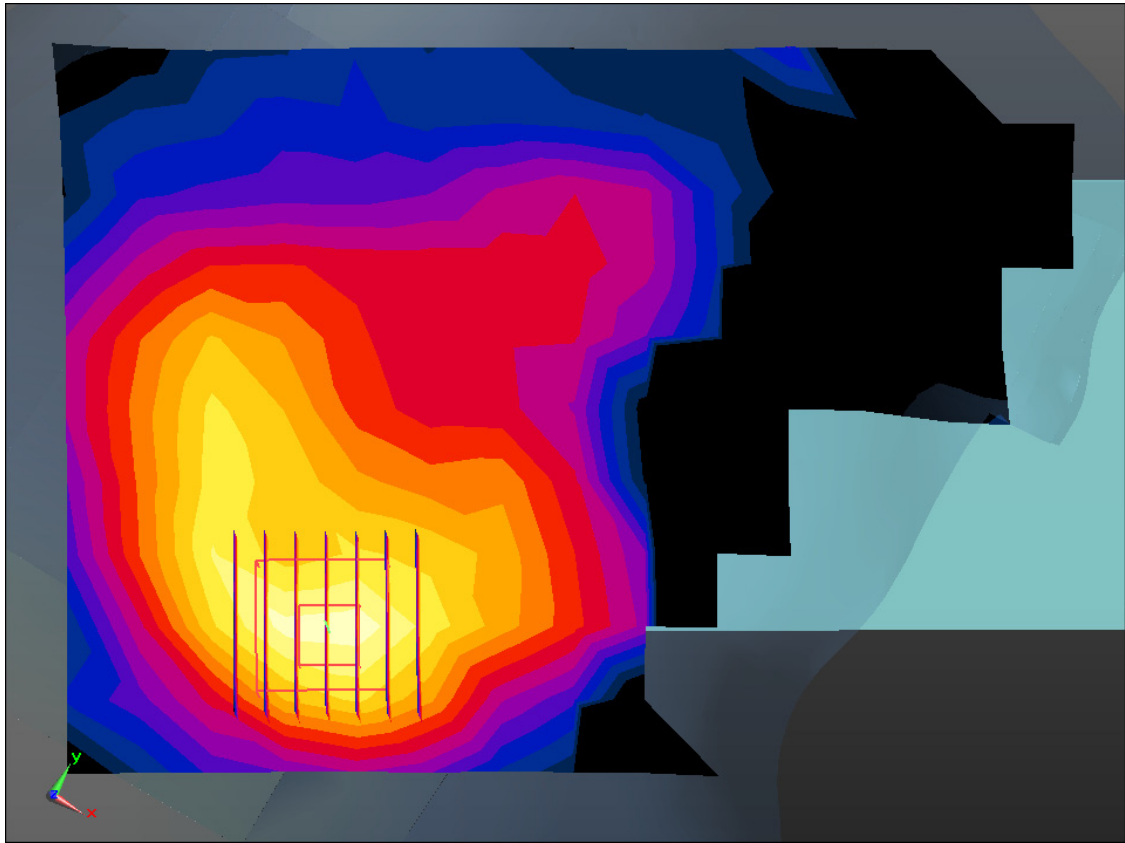
Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.504 W/kg

SAR(1 g) = 0.198 W/kg; SAR(10 g) = 0.081 W/kg



0 dB = 0.345 W/kg



Enlarged Plot for A17

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5280 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 4.802 \text{ S/m}$; $\epsilon_r = 36.135$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.61, 5.61, 5.61); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-03-09; Ambient Temp: 20.9; Tissue Temp: 22.0

Right Touch, WLAN(802.11a) Ch. 56, Ant Internal, Standard Battery, Ant.1

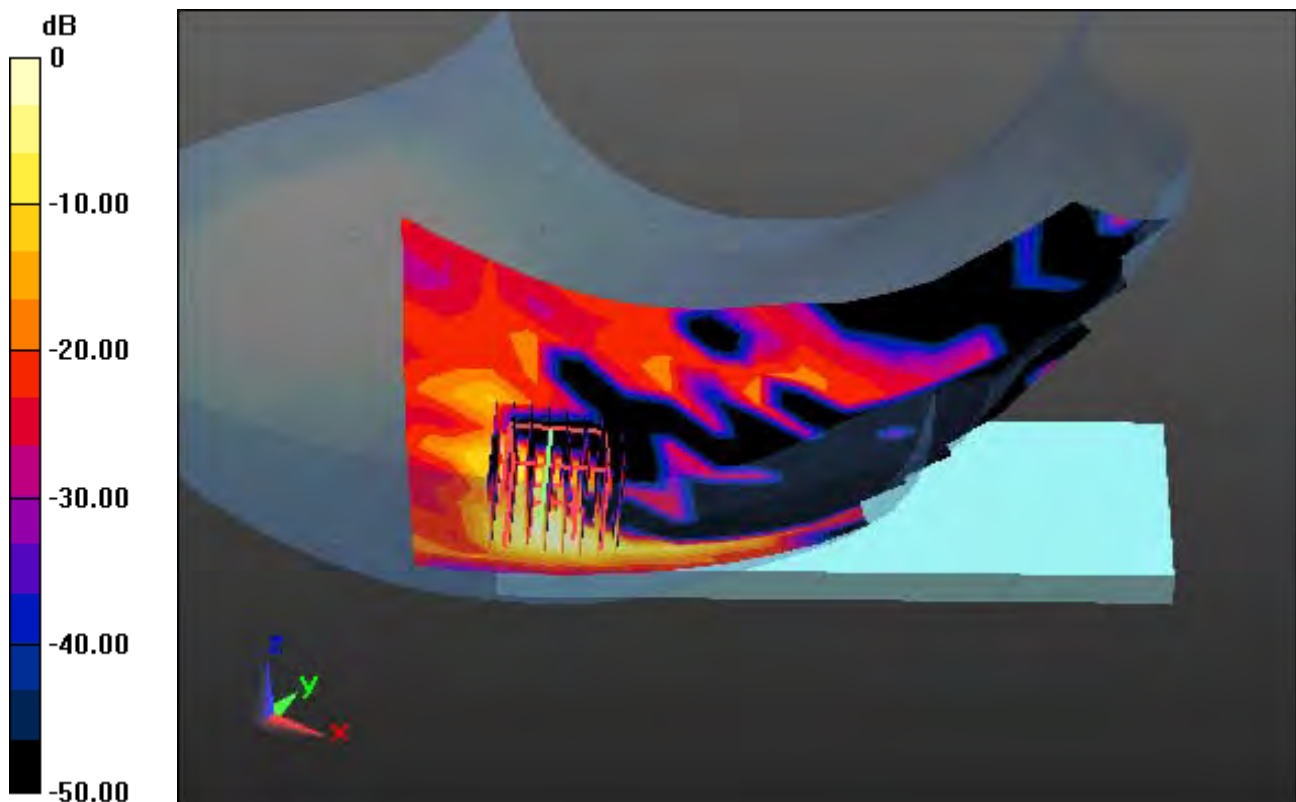
Area Scan (13x20x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (9x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$, Graded Ratio: 1.4

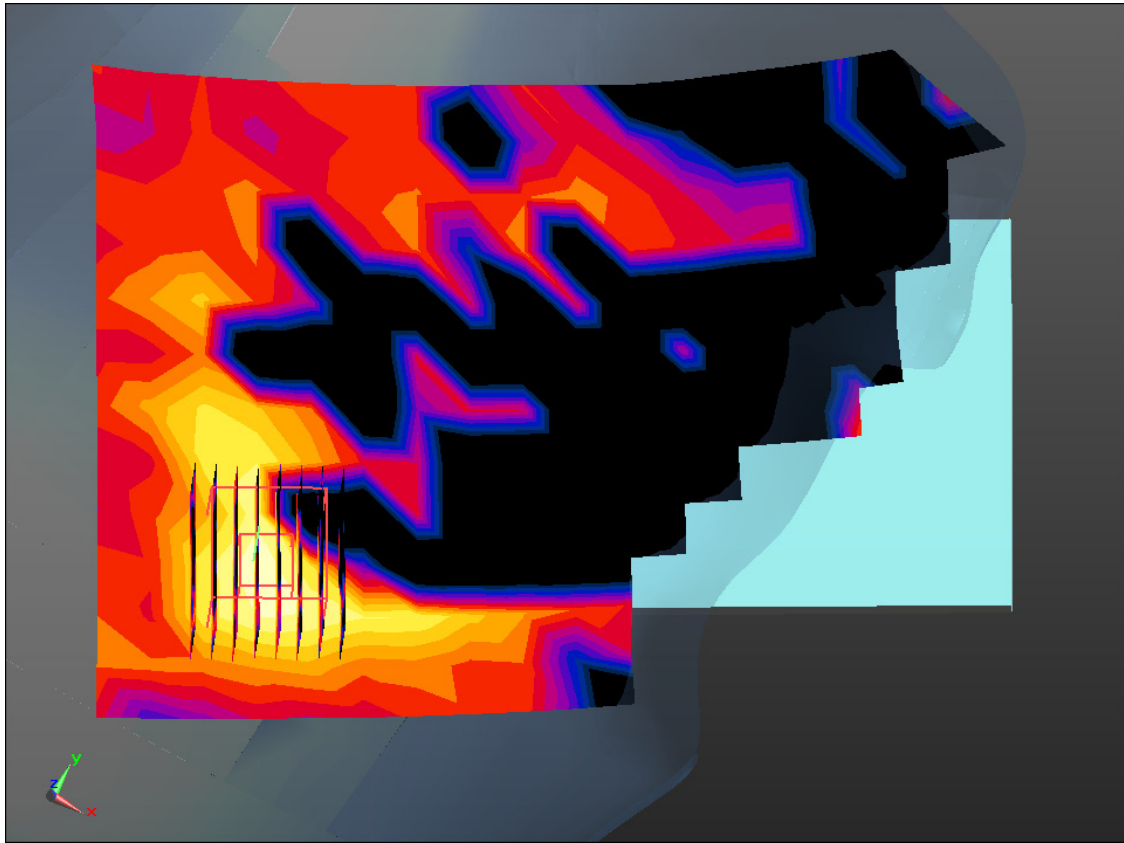
Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.919 W/kg

SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.041 W/kg



0 dB = 0.496 W/kg



Enlarged Plot for A18

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5260 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 4.783 \text{ S/m}$; $\epsilon_r = 36.194$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.61, 5.61, 5.61); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-03-09; Ambient Temp: 20.9; Tissue Temp: 22.0

Left Touch, WLAN(802.11a) Ch. 52, Ant Internal, Standard Battery, Ant.2

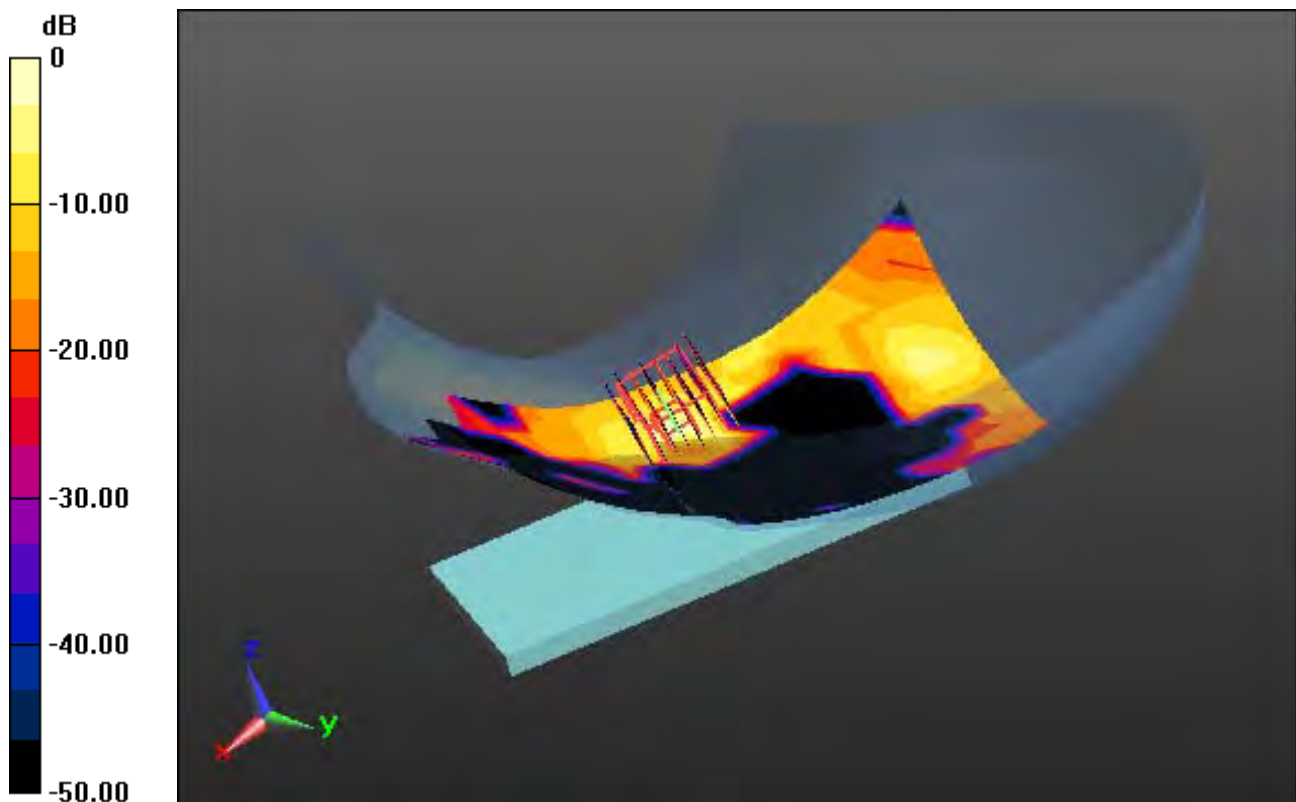
Area Scan (13x20x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$, Graded Ratio: 1.4

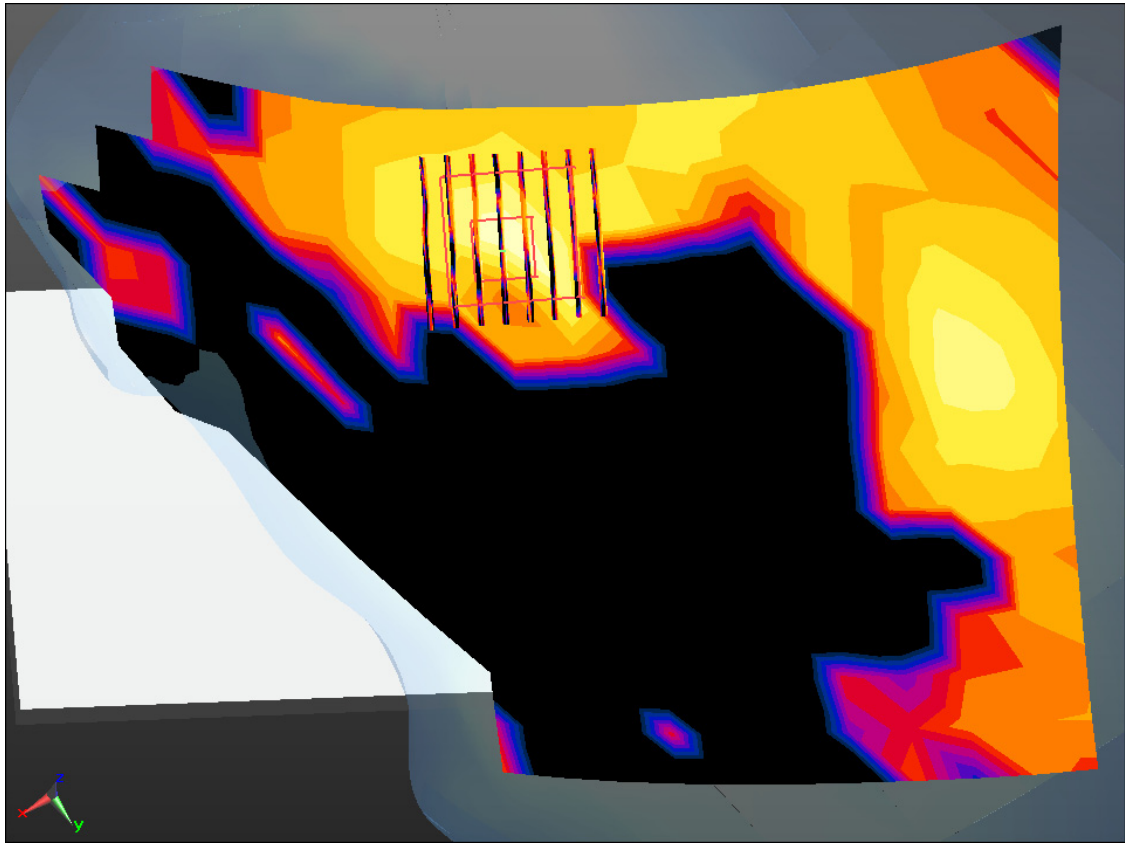
Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.238 W/kg

SAR(1 g) = 0.044 W/kg; SAR(10 g) = 0.00892 W/kg



0 dB = 0.140 W/kg



Enlarged Plot for A19

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5280 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5280 \text{ MHz}$; $\sigma = 4.802 \text{ S/m}$; $\epsilon_r = 36.135$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.61, 5.61, 5.61); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-03-09; Ambient Temp: 20.9; Tissue Temp: 22.0

Right Touch, WLAN(802.11a) Ch. 56, Ant Internal, Standard Battery, MIMO

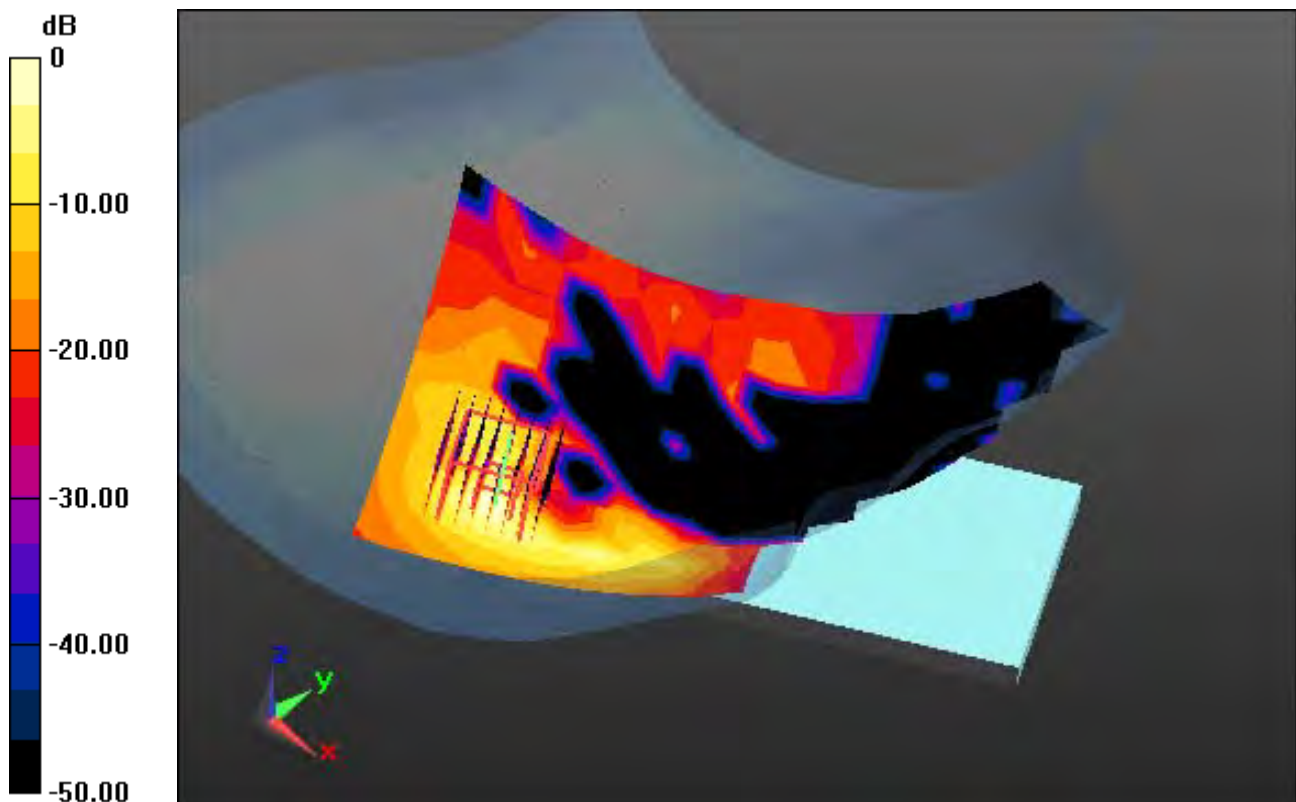
Area Scan (13x20x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$, Graded Ratio: 1.4

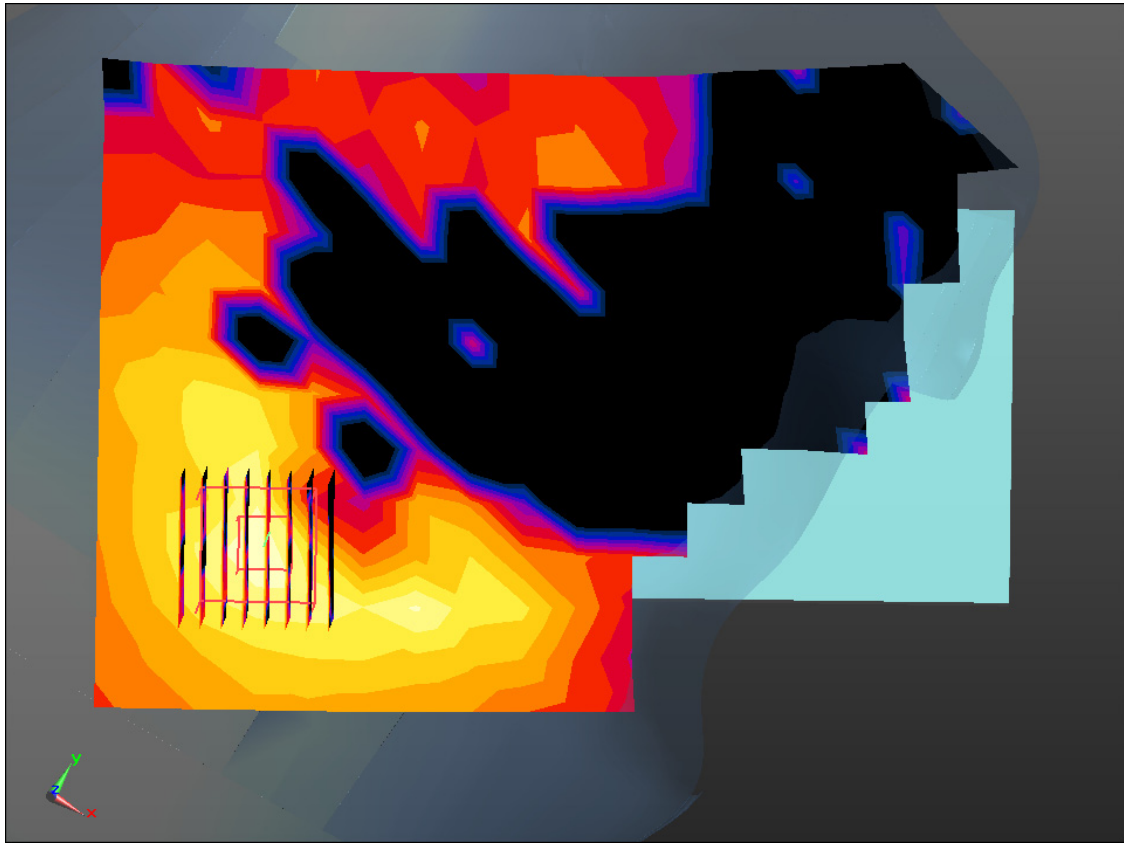
Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.199 W/kg; SAR(10 g) = 0.045 W/kg



0 dB = 0.586 W/kg



Enlarged Plot for A20

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5500 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 4.869 \text{ S/m}$; $\epsilon_r = 34.58$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.1, 5.1, 5.1); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-03-13; Ambient Temp: 20.7; Tissue Temp: 21.6

Right Touch, WLAN(802.11a) Ch. 100, Ant Internal, Standard Battery, Ant.1

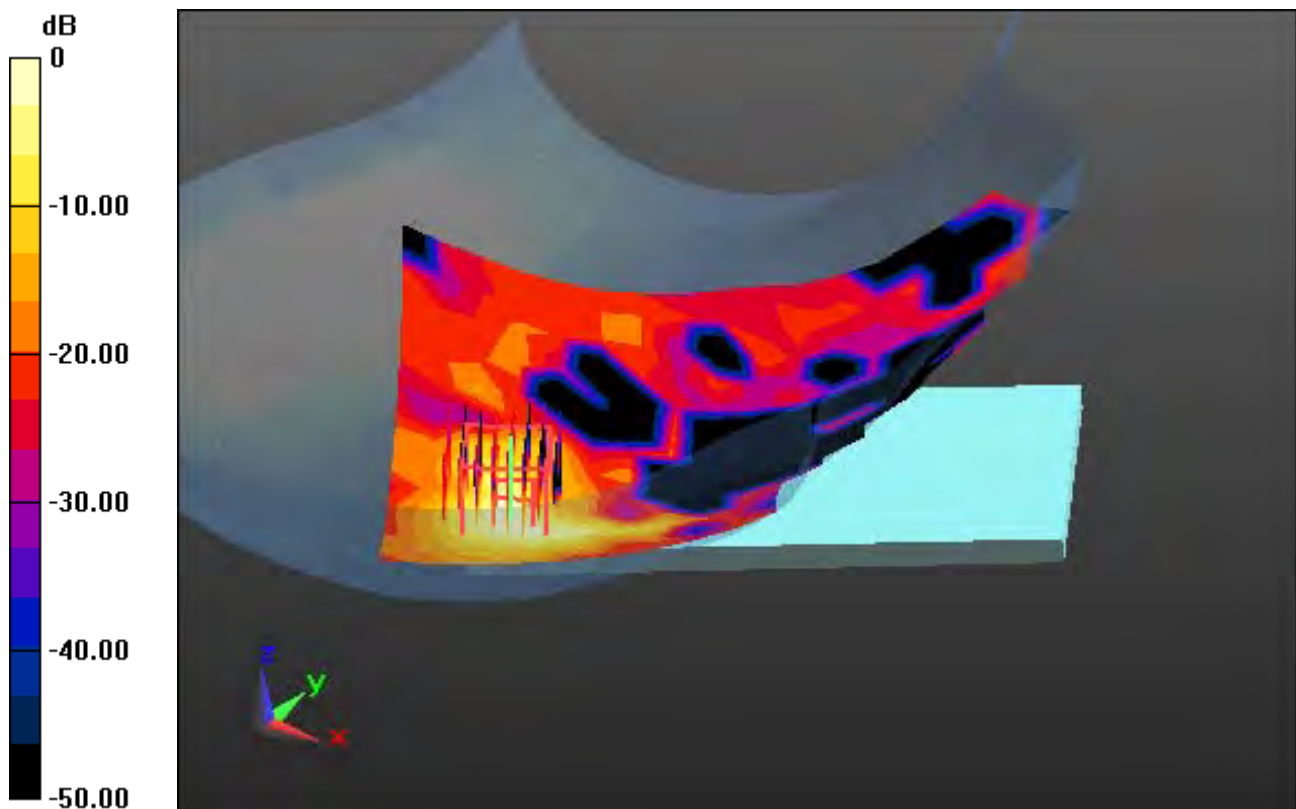
Area Scan (13x20x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (9x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$, Graded Ratio: 1.4

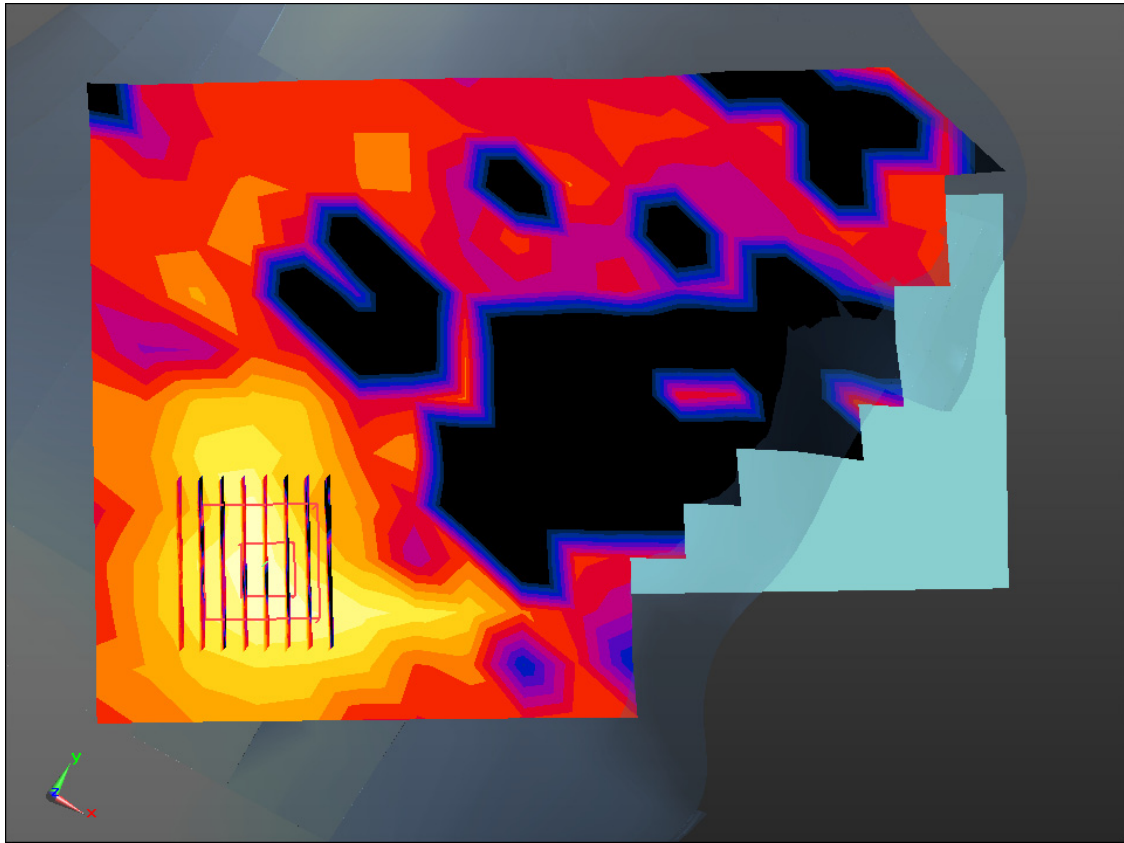
Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.893 W/kg

SAR(1 g) = 0.183 W/kg; SAR(10 g) = 0.052 W/kg



0 dB = 0.535 W/kg



Enlarged Plot for A21

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 4.984$ S/m; $\epsilon_r = 34.363$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(4.89, 4.89, 4.89); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-03-13; Ambient Temp: 20.7; Tissue Temp: 21.6

Left Touch, WLAN(802.11a) Ch. 120, Ant Internal, Standard Battery, Ant.2

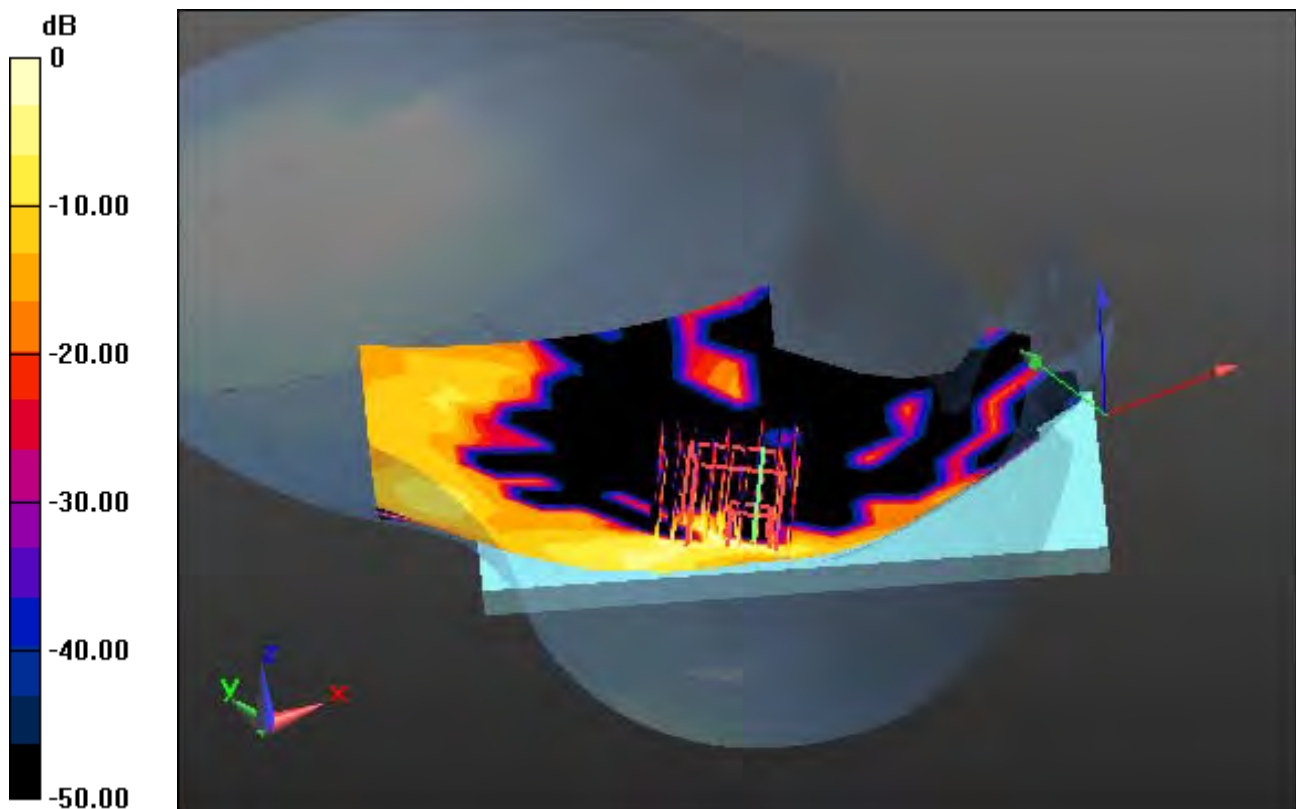
Area Scan (13x20x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm, Graded Ratio: 1.4

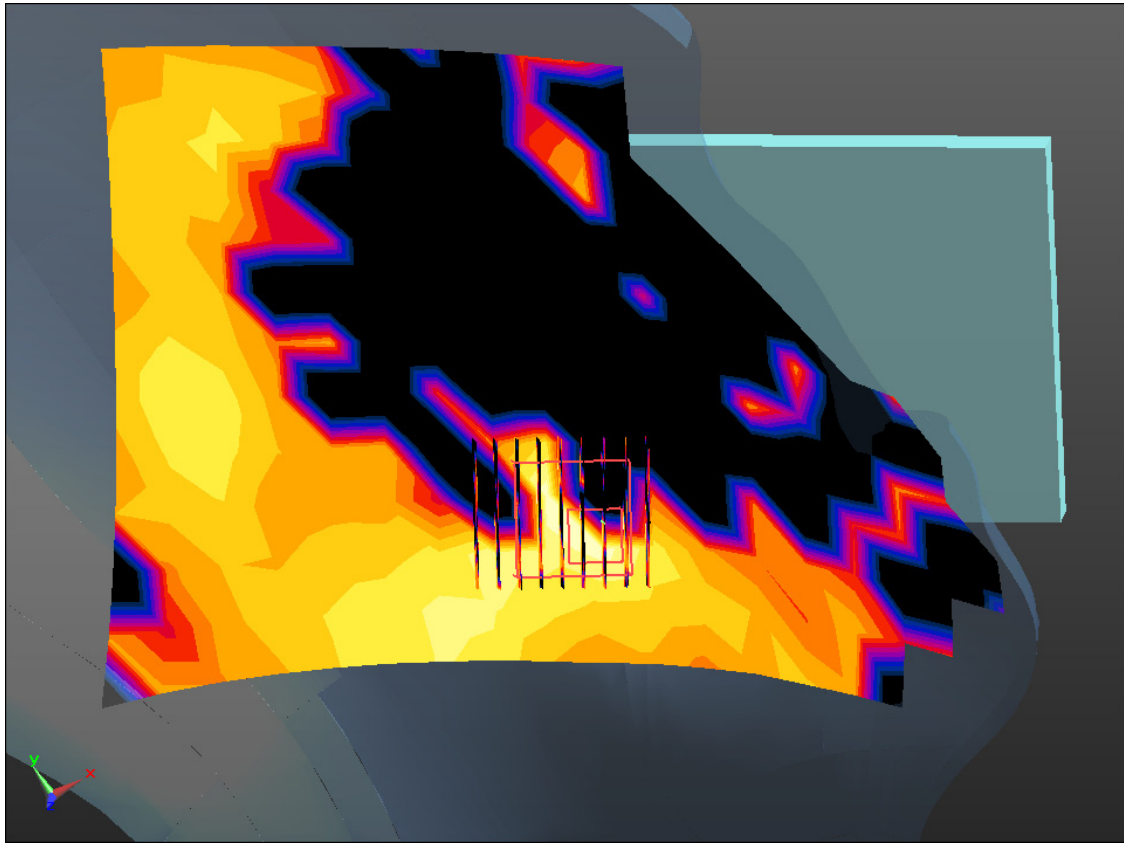
Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.230 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.00806 W/kg



0 dB = 0.128 W/kg



Enlarged Plot for A22

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5500 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 4.869 \text{ S/m}$; $\epsilon_r = 34.58$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5.1, 5.1, 5.1); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-03-13; Ambient Temp: 20.7; Tissue Temp: 21.6

Right Touch, WLAN(802.11a) Ch. 100, Ant Internal, Standard Battery, MIMO

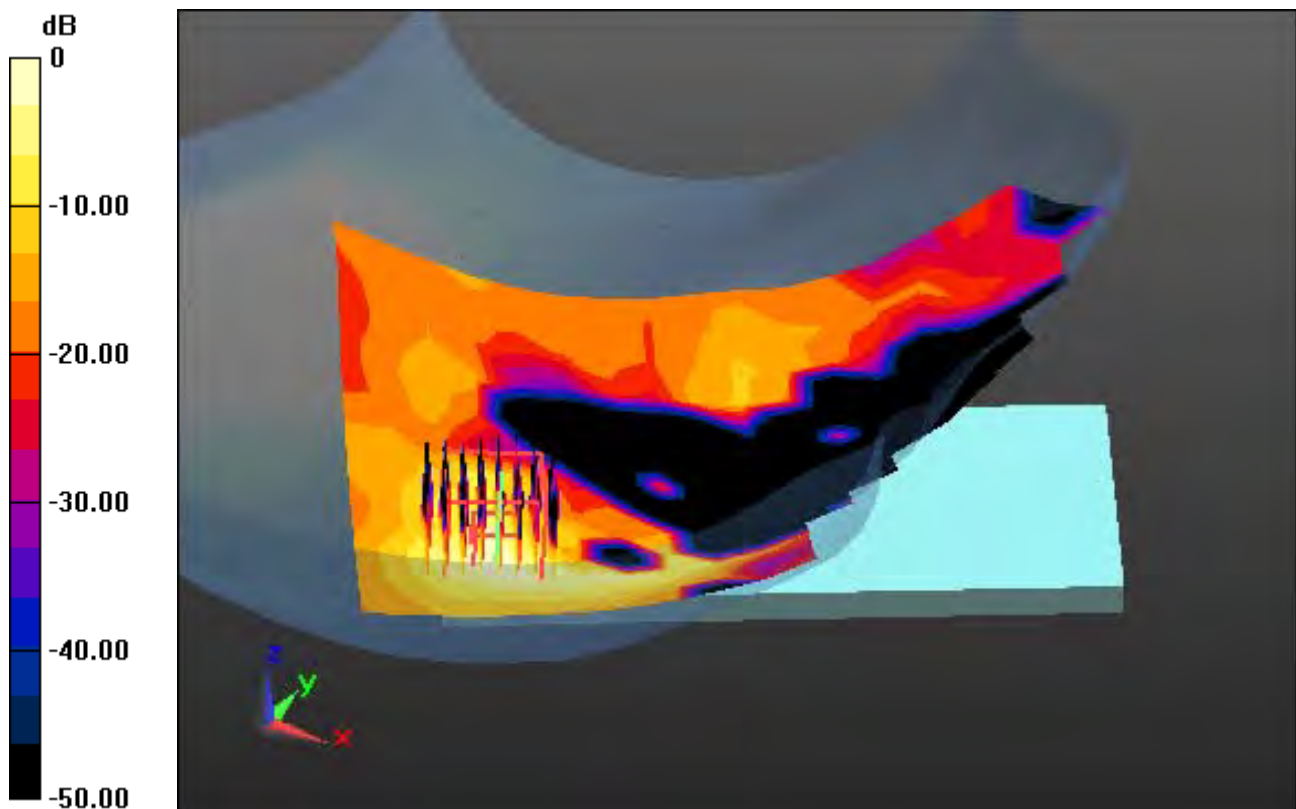
Area Scan (13x20x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$, Graded Ratio: 1.4

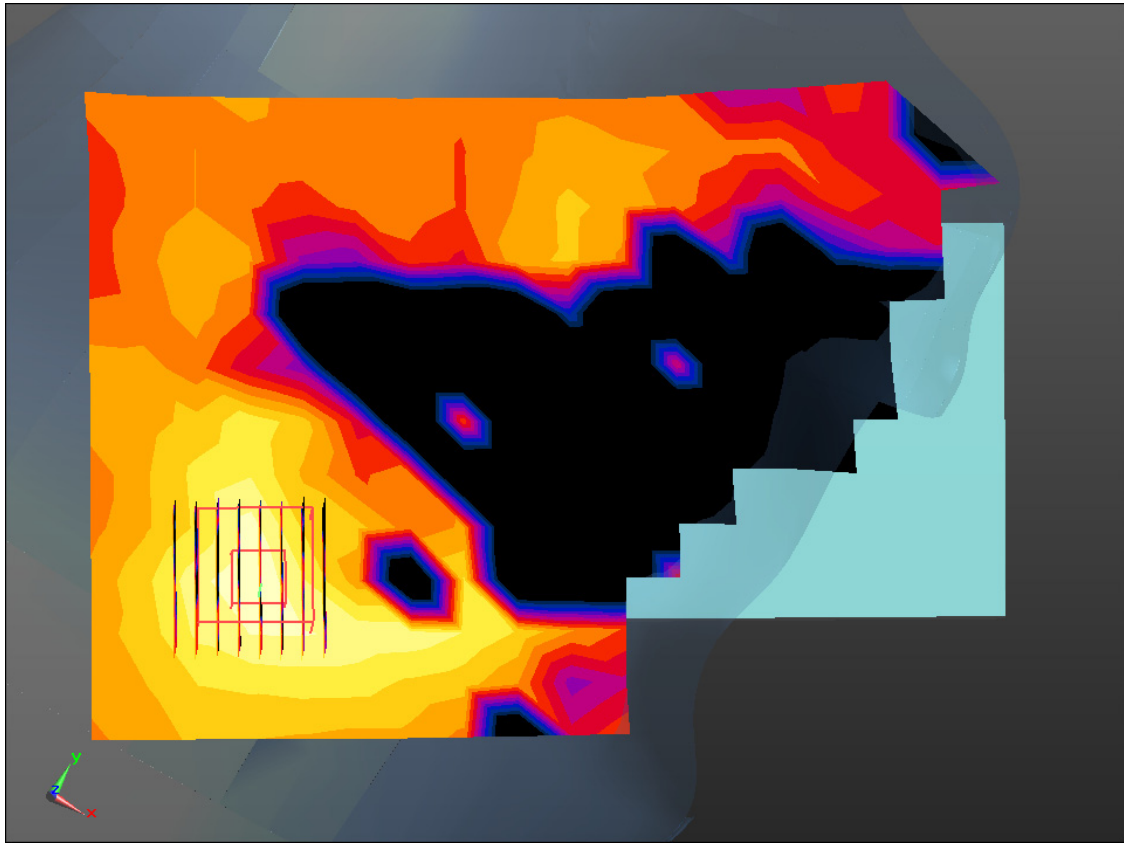
Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.803 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.048 W/kg



0 dB = 0.461 W/kg



Enlarged Plot for A23

DT&C Co., Ltd.

DUT: LM-G710EM; Type: Bar

Communication System: UID 0, W-LAN 5G (0); Frequency: 5825 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 5.474 \text{ S/m}$; $\epsilon_r = 34.944$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY5 Configuration:

Probe: EX3DV4 - SN7337; ConvF(5, 5, 5); Calibrated: 11/28/2017; Electronics: DAE4 Sn1335

Sensor-Surface: 1.4mm (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: 2018-03-15; Ambient Temp: 21.0; Tissue Temp: 20.7

Right Touch, WLAN(802.11a) Ch. 165, Ant Internal, Standard Battery, Ant.1

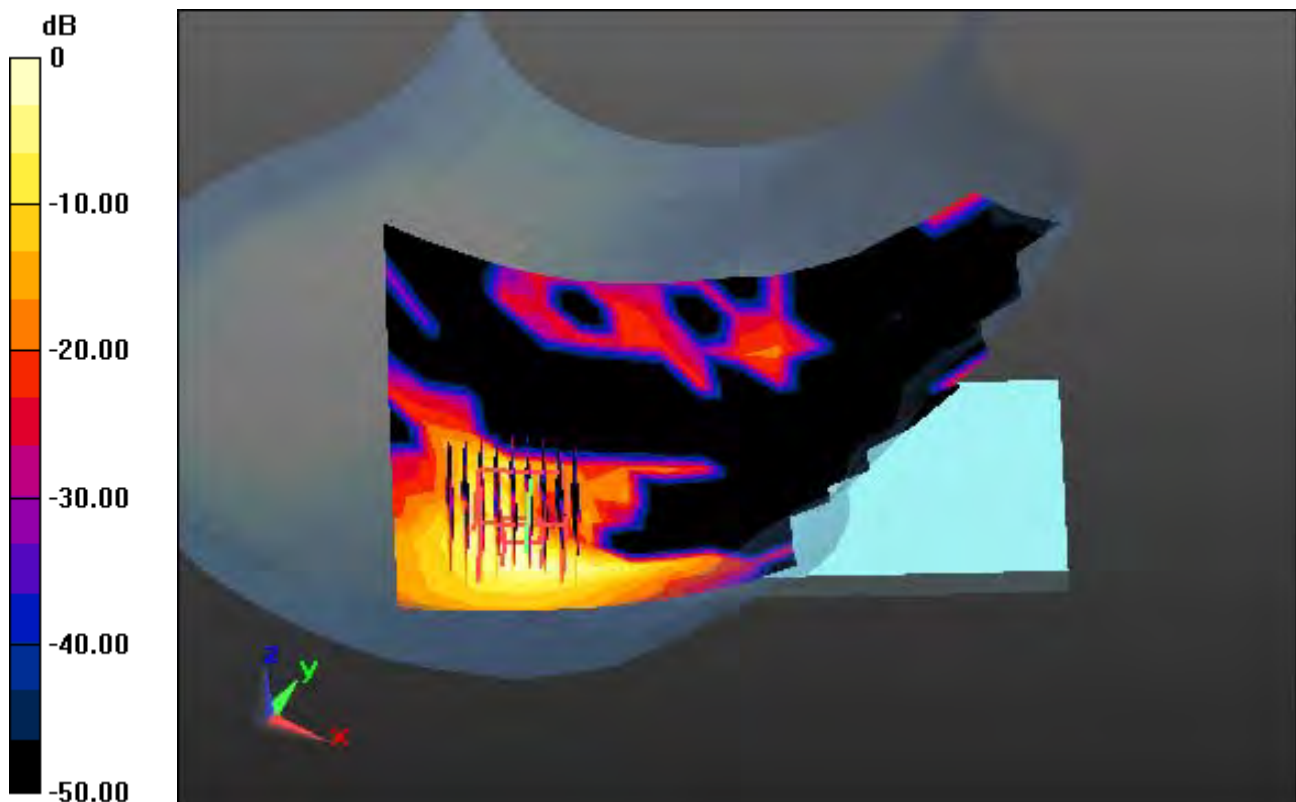
Area Scan (13x20x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (10x9x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$, Graded Ratio: 1.4

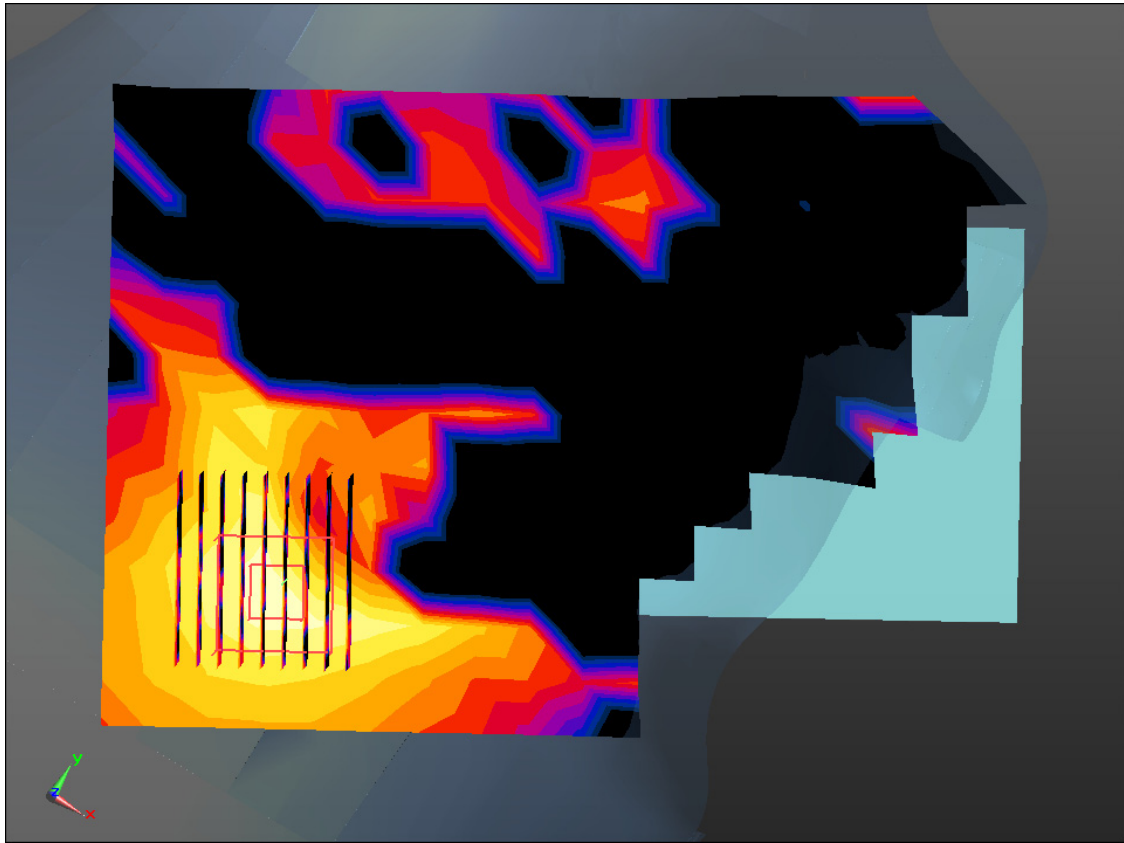
Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.48 W/kg

SAR(1 g) = 0.171 W/kg; SAR(10 g) = 0.041 W/kg



0 dB = 0.508 W/kg



Enlarged Plot for A24