

Test Laboratory: UL CCS SAR Lab B

LTE Band 17_Body_Primary Portrait

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 710$ MHz; $\sigma = 0.928$ mho/m; $\epsilon_r = 56.284$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

QPSK_10MHz_RB1_RB0_Mid-Ch/Area Scan (81x141x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.367 mW/g

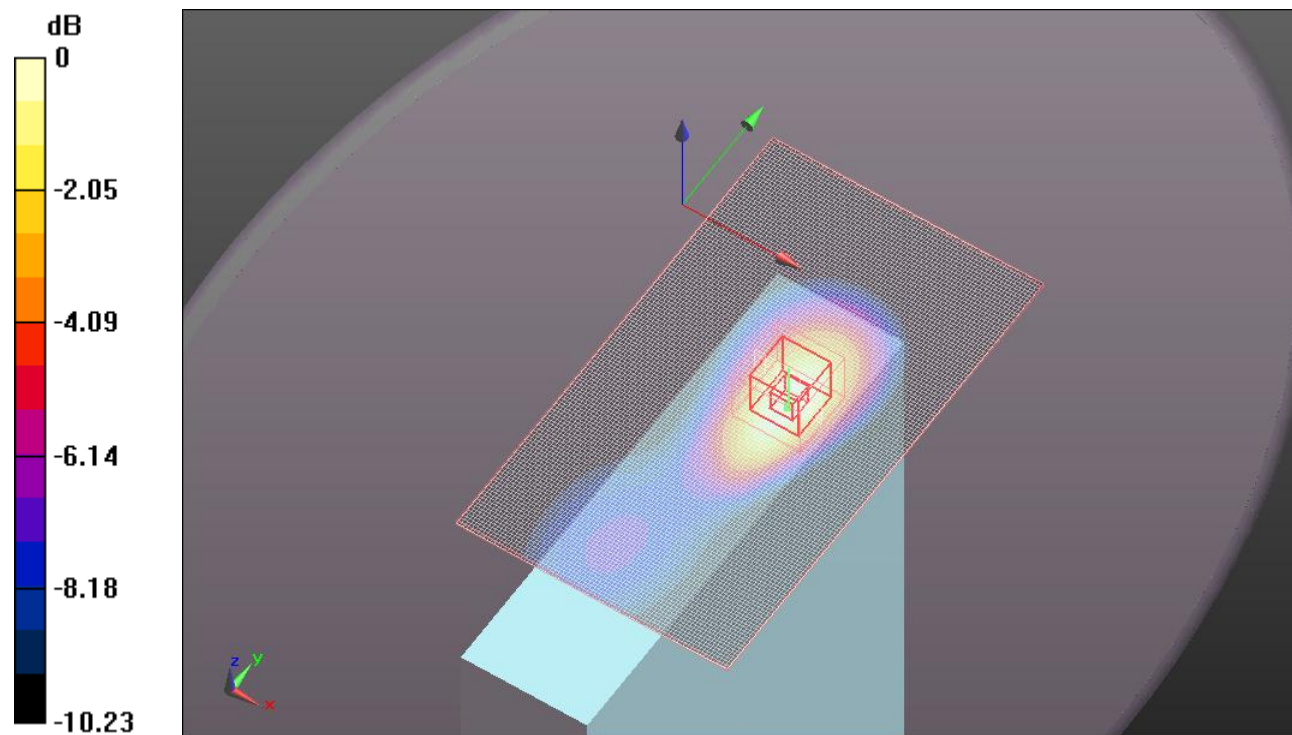
QPSK_10MHz_RB1_RB0_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 19.225 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.478 W/kg

SAR(1 g) = 0.301 mW/g; SAR(10 g) = 0.194 mW/g

Maximum value of SAR (measured) = 0.373 mW/g



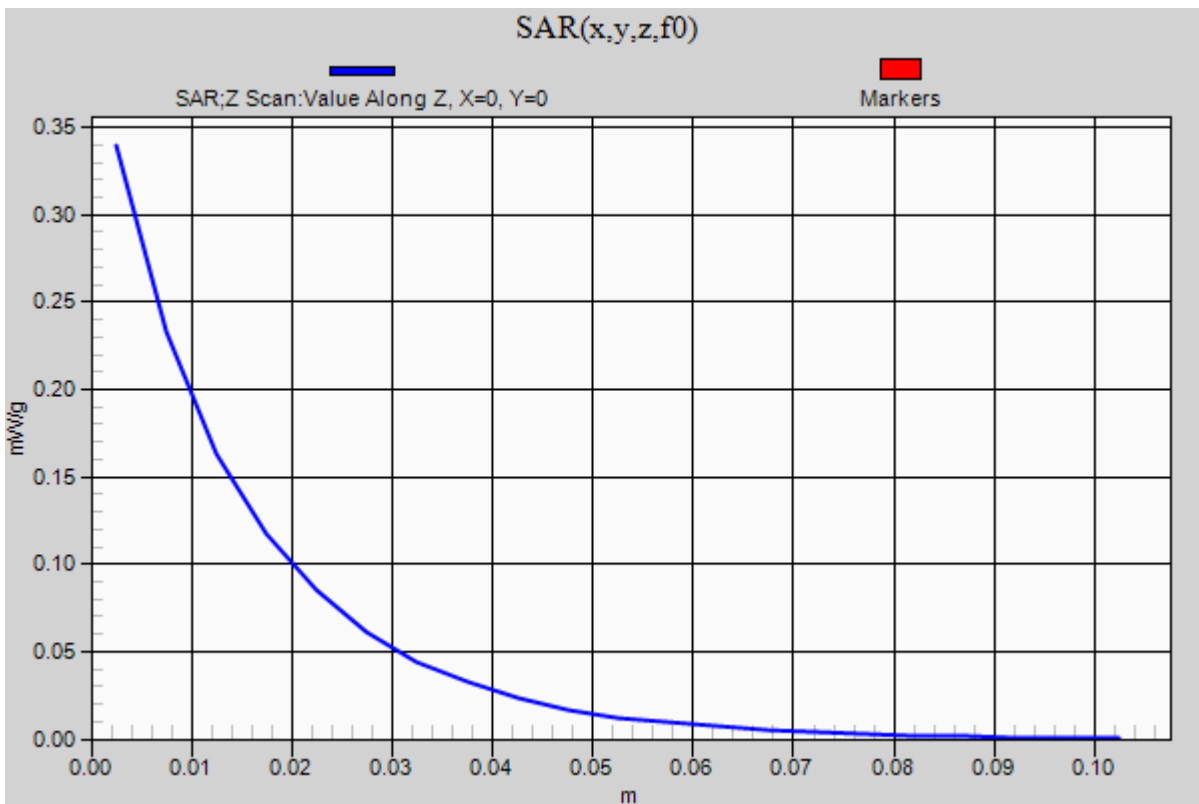
0 dB = 0.370mW/g

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LTE Band 17_Body_Primary Portrait

Communication System: LTE; Frequency: 710 MHz;Duty Cycle: 1:1

QPSK_10MHz_RB1_RB0_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.339 mW/g



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LTE Band 17_Body_Primary Portrait

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.928 \text{ mho/m}$; $\epsilon_r = 56.284$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

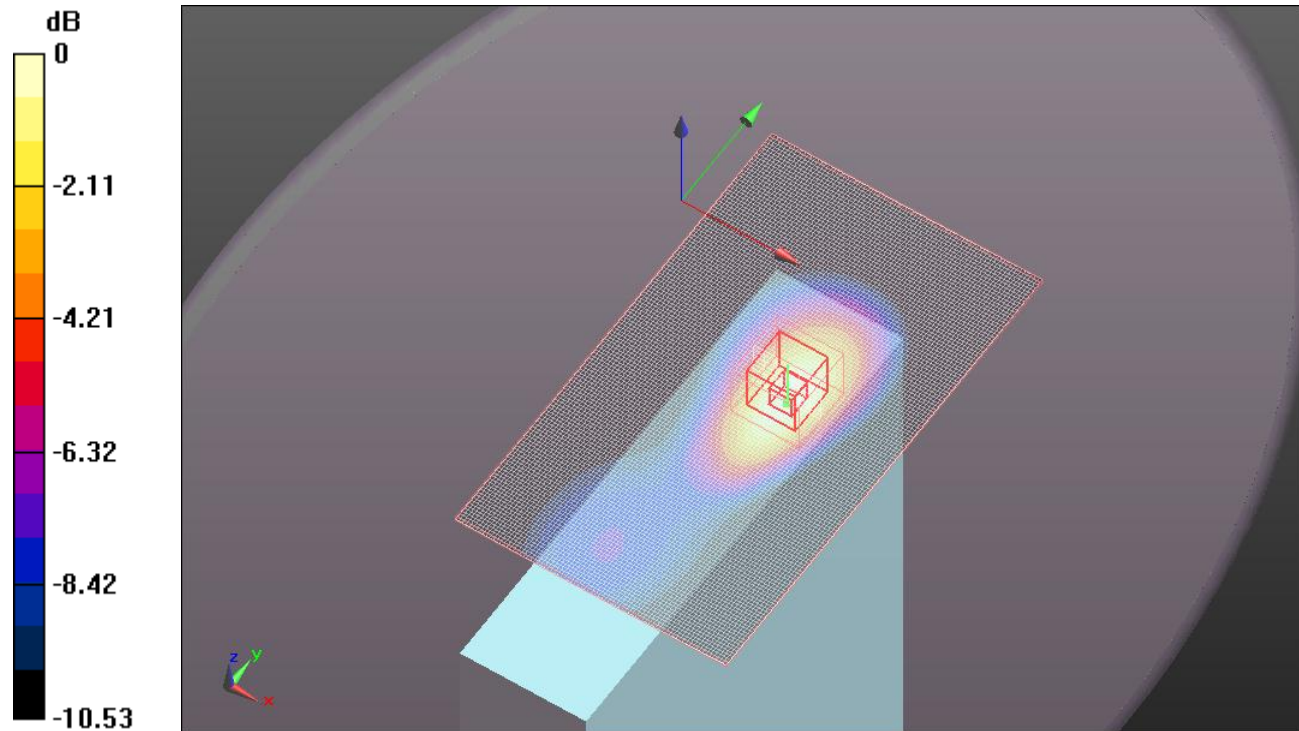
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

QPSK_10MHz_RB1_RB49_Mid-Ch/Area Scan (81x141x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.380 mW/g

QPSK_10MHz_RB1_RB49_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=5\text{mm}$,
 $dy=5\text{mm}$, $dz=3\text{mm}$
 Reference Value = 19.586 V/m; Power Drift = -0.06 dB
 Peak SAR (extrapolated) = 0.481 W/kg
SAR(1 g) = 0.307 mW/g; SAR(10 g) = 0.197 mW/g
 Maximum value of SAR (measured) = 0.382 mW/g



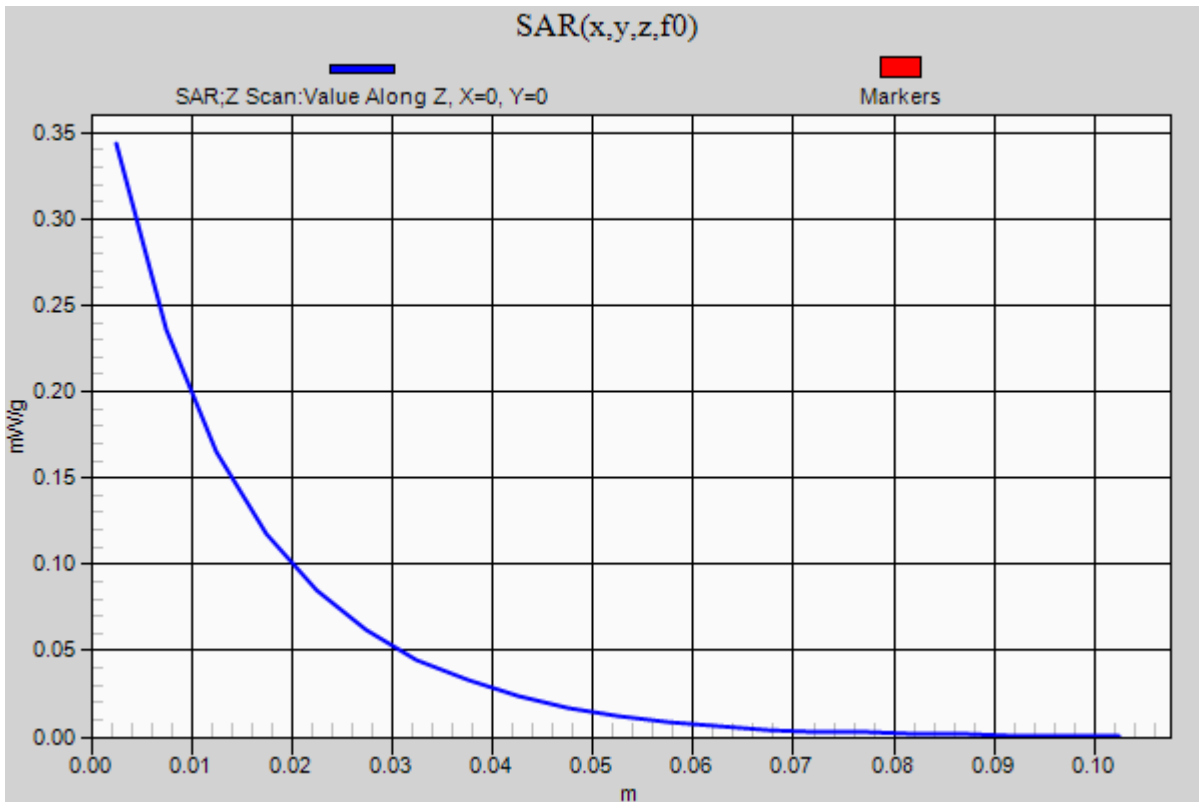
0 dB = 0.380mW/g

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LTE Band 17_Body_Primary Portrait

Communication System: LTE; Frequency: 710 MHz;Duty Cycle: 1:1

QPSK_10MHz_RB1_RB49_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.344 mW/g



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LTE Band 17_Body_Primary Portrait

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 710$ MHz; $\sigma = 0.928$ mho/m; $\epsilon_r = 56.284$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

QPSK_10MHz_RB25_RB12_Mid-Ch/Area Scan (81x141x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.266 mW/g

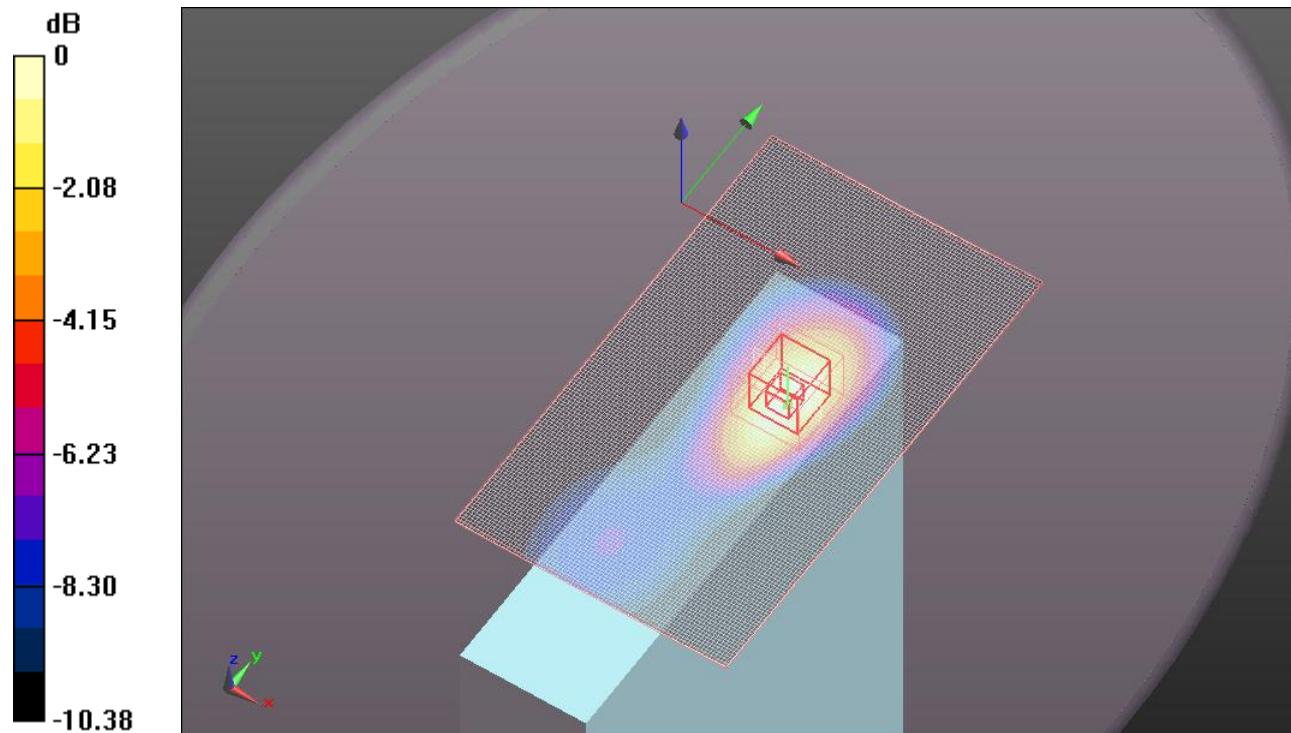
QPSK_10MHz_RB25_RB12_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 16.313 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.329 W/kg

SAR(1 g) = 0.215 mW/g; SAR(10 g) = 0.137 mW/g

Maximum value of SAR (measured) = 0.265 mW/g



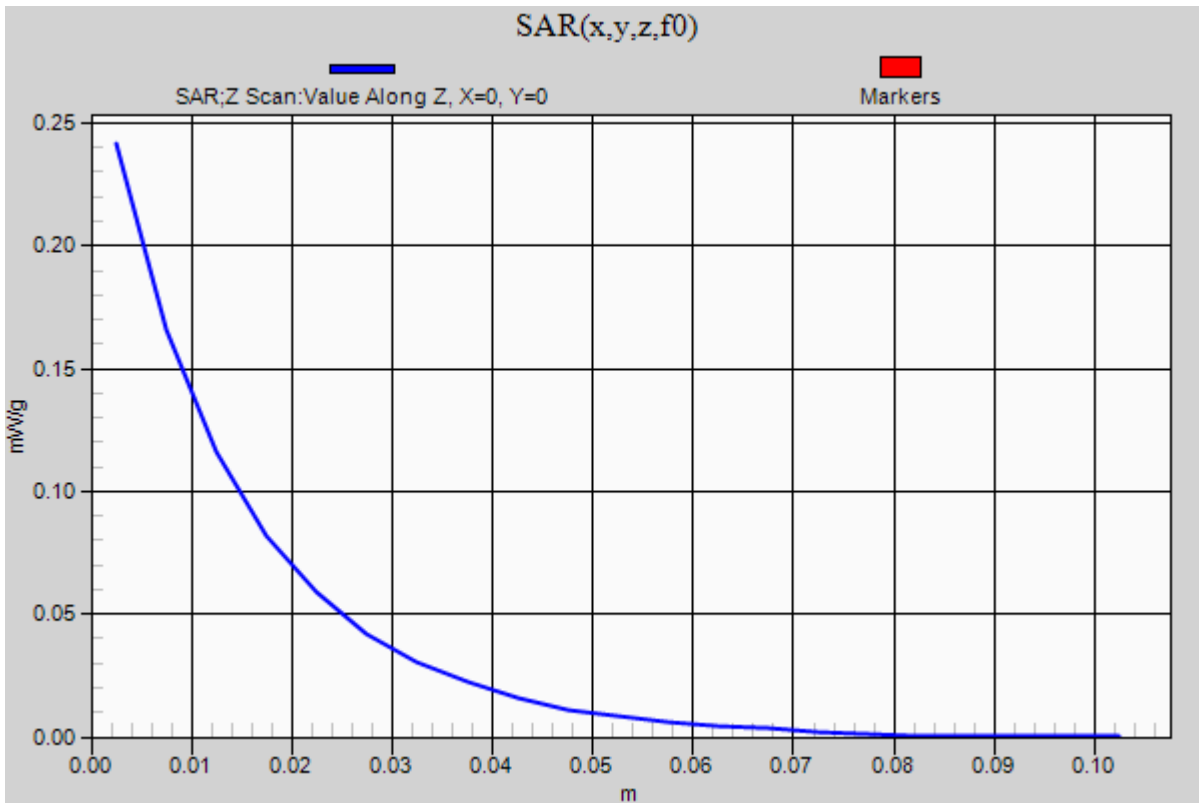
0 dB = 0.270mW/g

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LTE Band 17_Body_Primary Portrait

Communication System: LTE; Frequency: 710 MHz;Duty Cycle: 1:1

QPSK_10MHz_RB25_RB12_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.242 mW/g



Test Laboratory: UL CCS SAR Lab B

LTE Band 17_Body_Primary Portrait

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 710$ MHz; $\sigma = 0.928$ mho/m; $\epsilon_r = 56.284$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

16QAM_10MHz_RB1_RB0_Mid-Ch/Area Scan (81x141x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.293 mW/g

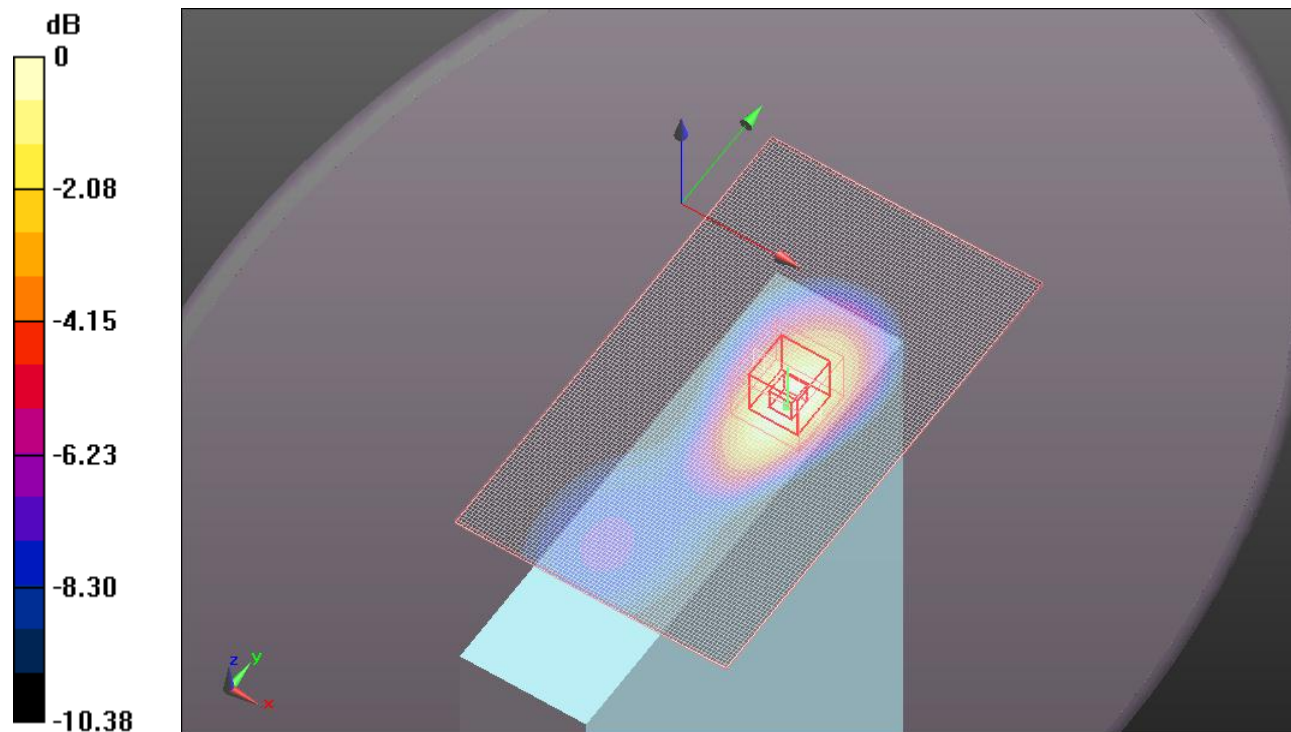
16QAM_10MHz_RB1_RB0_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 17.392 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.378 W/kg

SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.155 mW/g

Maximum value of SAR (measured) = 0.301 mW/g



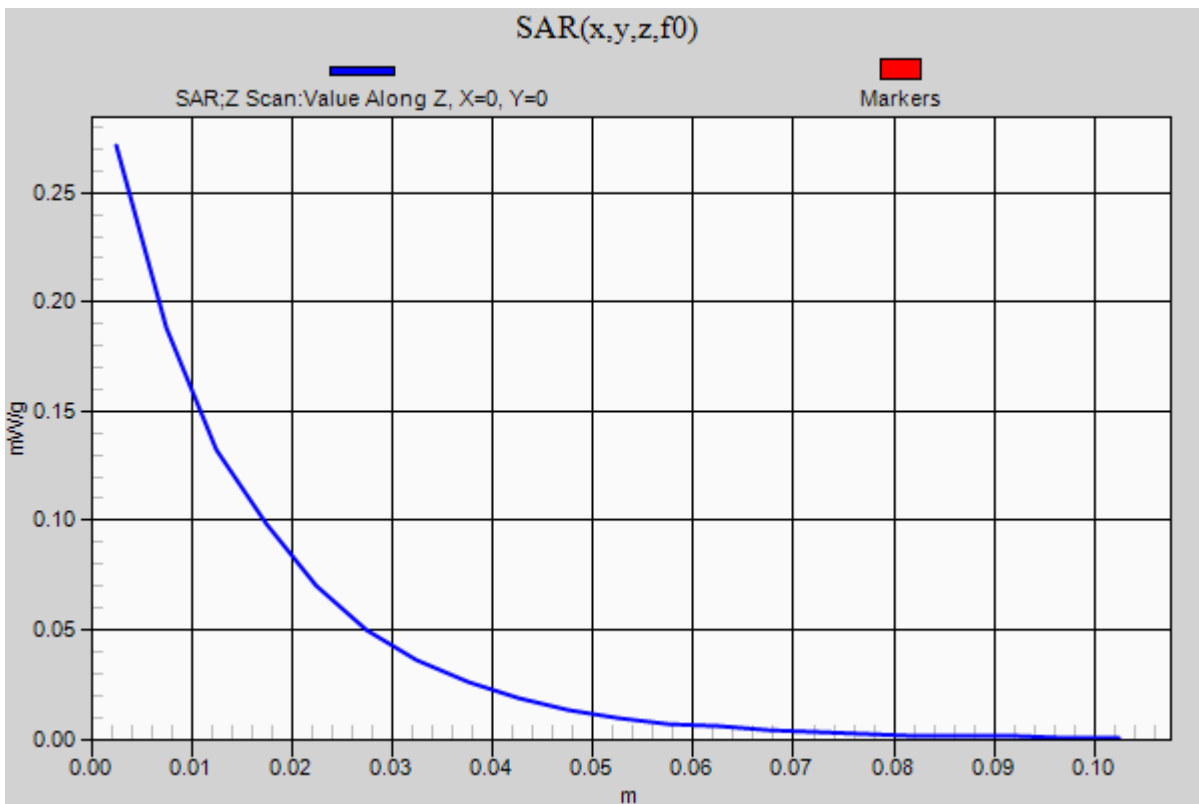
0 dB = 0.300mW/g

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LTE Band 17_Body_Primary Portrait

Communication System: LTE; Frequency: 710 MHz;Duty Cycle: 1:1

16QAM_10MHz_RB1_RB0_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.271 mW/g



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LTE Band 17_Body_Primary Portrait

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 710$ MHz; $\sigma = 0.928$ mho/m; $\epsilon_r = 56.284$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

16QAM_10MHz_RB1_RB49_Mid-Ch/Area Scan (81x141x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.301 mW/g

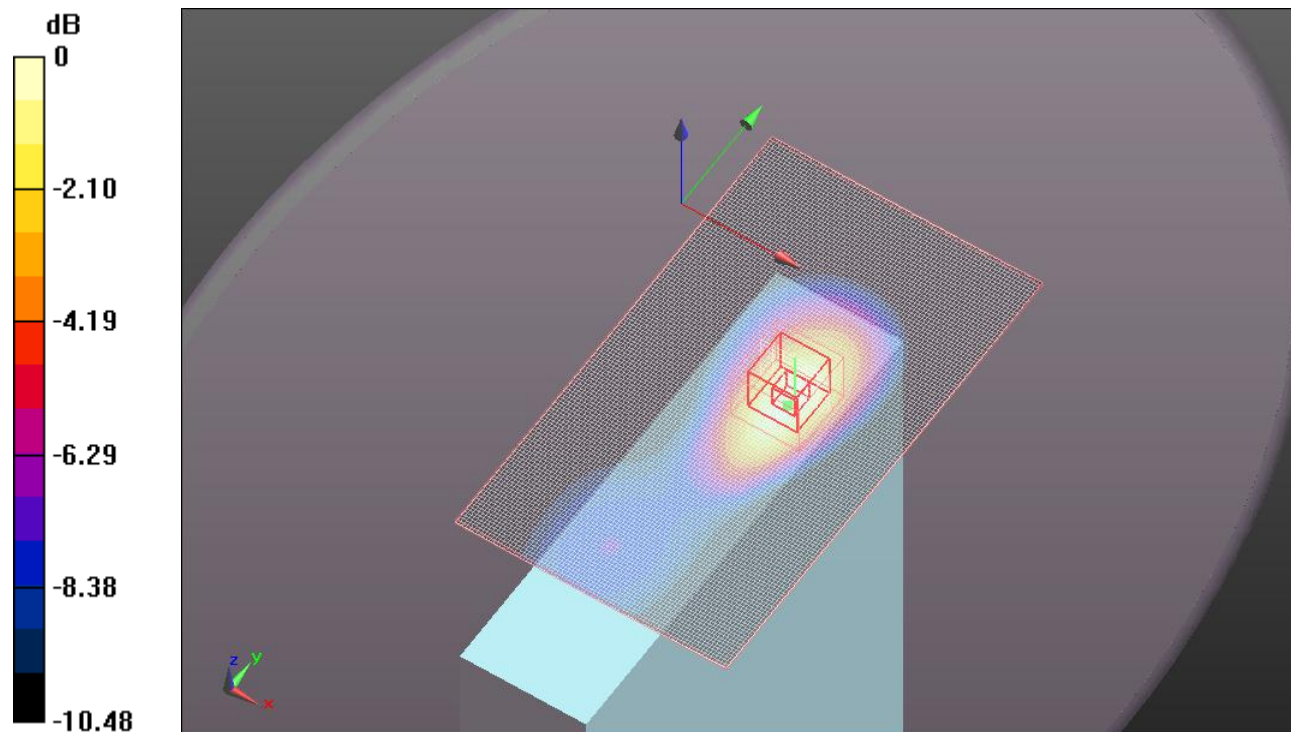
16QAM_10MHz_RB1_RB49_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 17.565 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.393 W/kg

SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.159 mW/g

Maximum value of SAR (measured) = 0.307 mW/g



0 dB = 0.310mW/g

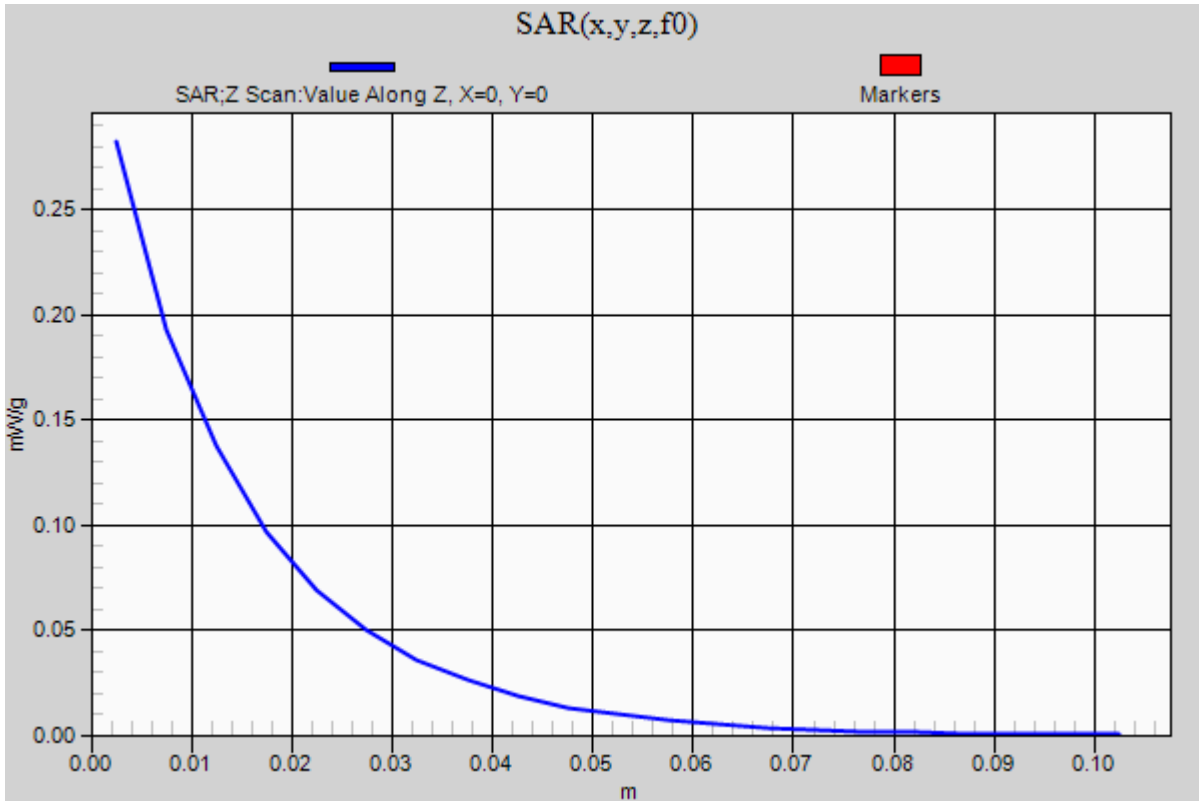
Test Laboratory: UL CCS SAR Lab B

LTE Band 17_Body_Primary Portrait

Communication System: LTE; Frequency: 710 MHz;Duty Cycle: 1:1

16QAM_10MHz_RB1_RB49_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 0.282 mW/g



Test Laboratory: UL CCS SAR Lab B

LTE Band 17_Body_Primary Portrait

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.928 \text{ mho/m}$; $\epsilon_r = 56.284$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

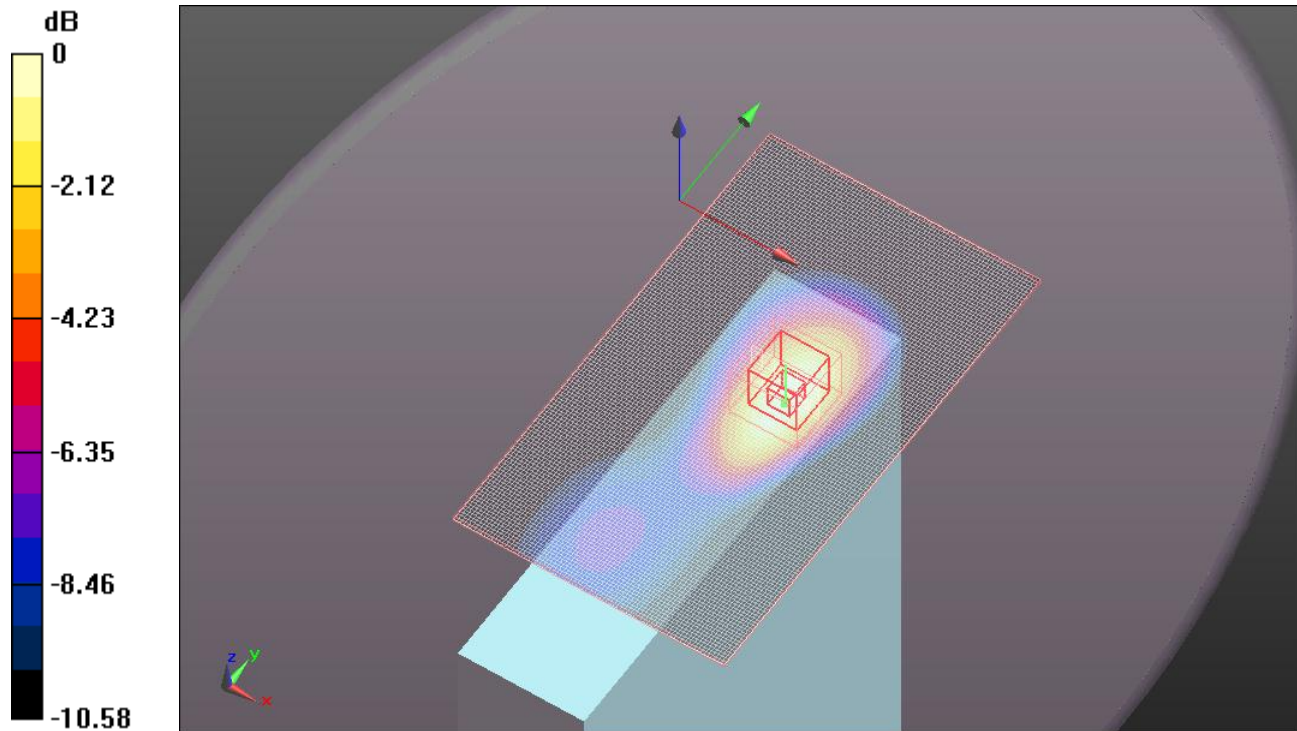
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

16QAM_10MHz_RB25_RB12_Mid-Ch/Area Scan (81x141x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.200 mW/g

16QAM_10MHz_RB25_RB12_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=3\text{mm}$
 Reference Value = 14.223 V/m; Power Drift = 0.06 dB
 Peak SAR (extrapolated) = 0.257 W/kg
SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.105 mW/g
 Maximum value of SAR (measured) = 0.203 mW/g



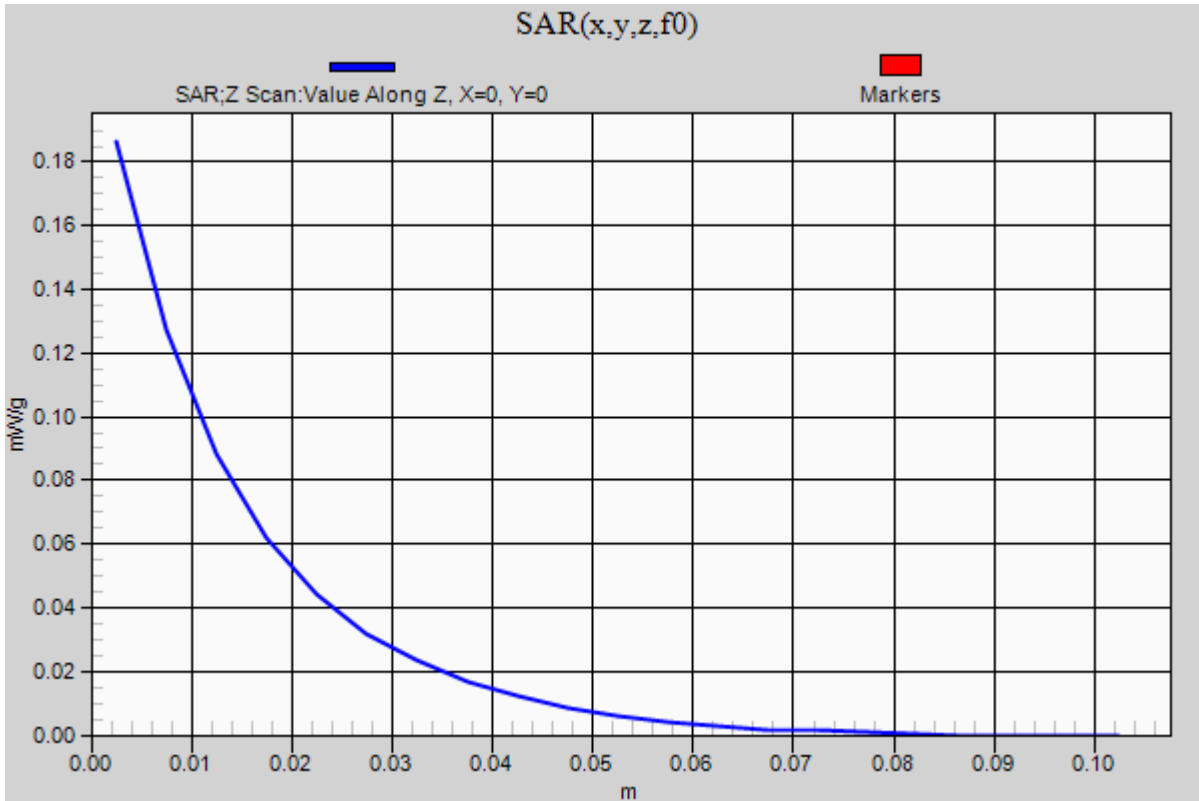
0 dB = 0.200mW/g

Test Laboratory: UL CCS SAR Lab B

LTE Band 17_Body_Primary Portrait

Communication System: LTE; Frequency: 710 MHz;Duty Cycle: 1:1

16QAM_10MHz_RB25_RB12_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.186 mW/g



LTE Band 17_Secundary Landscape

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.922 \text{ mho/m}$; $\epsilon_r = 55.845$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117

QPSK_10MHz_RB1_RB0_Mid-Ch/Area Scan 2 (9x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.071 mW/g

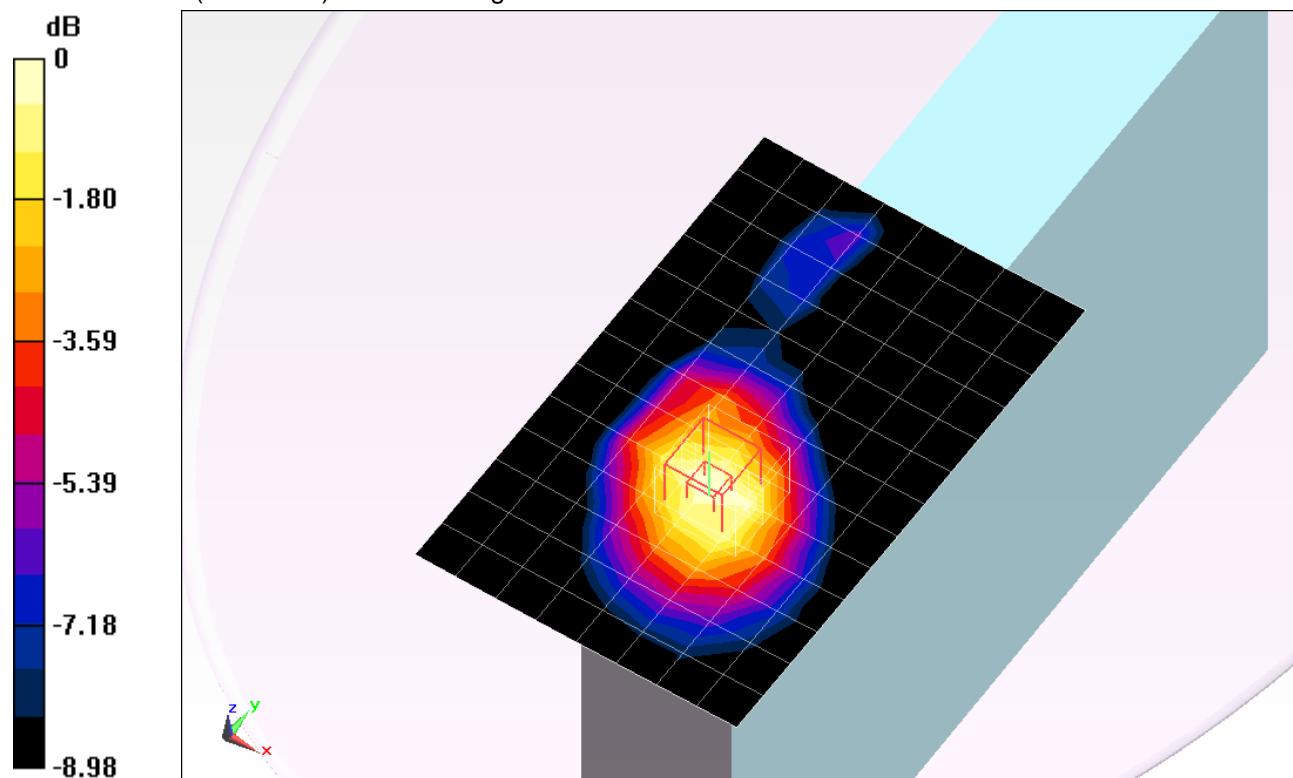
QPSK_10MHz_RB1_RB0_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=5\text{mm}$,
 $dy=5\text{mm}$, $dz=3\text{mm}$

Reference Value = 8.983 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.0920

SAR(1 g) = 0.061 mW/g; SAR(10 g) = 0.042 mW/g

Maximum value of SAR (measured) = 0.075 mW/g

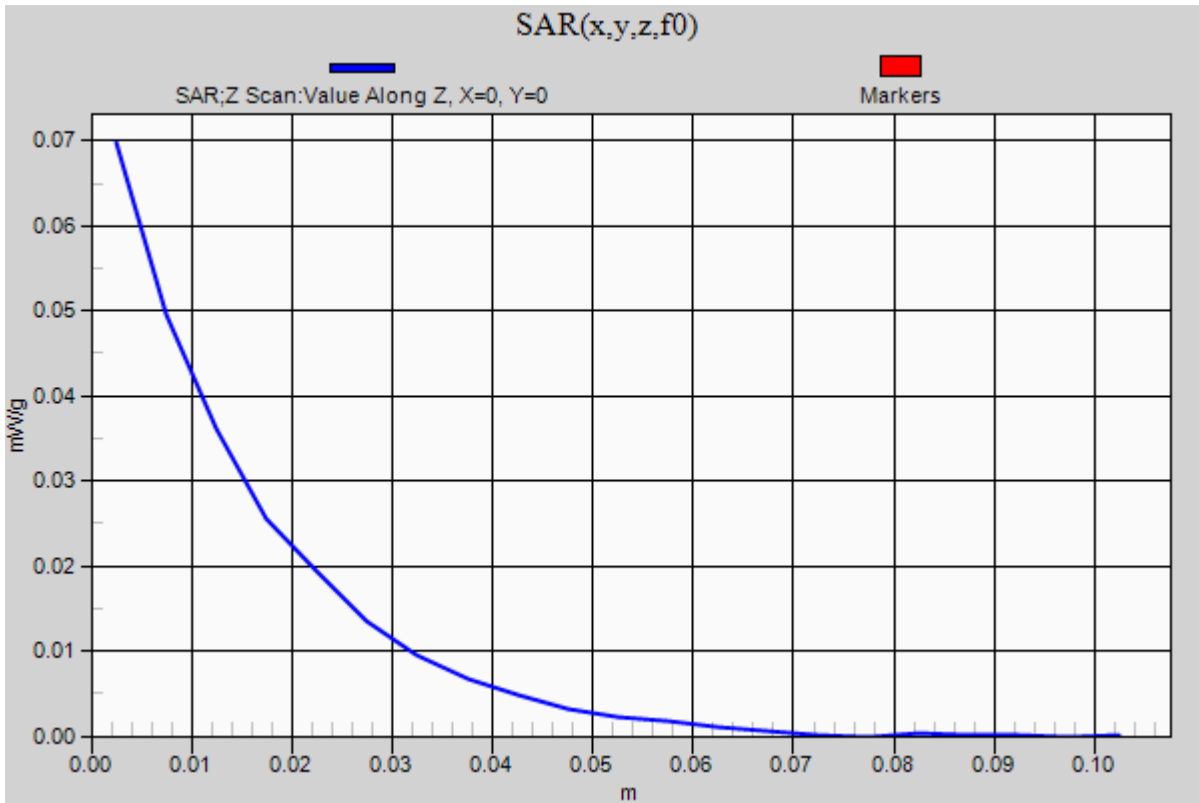


0 dB = 0.070mW/g = -23.10 dB mW/g

LTE Band 17_Secundary Landscape

Frequency: 710 MHz; Duty Cycle: 1:1

QPSK_10MHz_RB1_RB0_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.070 mW/g



Test Laboratory: UL CCS SAR Lab B

LTE Band 17_Body_Secondary Landscape

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 710$ MHz; $\sigma = 0.922$ mho/m; $\epsilon_r = 55.845$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

QPSK_10MHz_RB1_RB49_Mid-Ch/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.079 mW/g

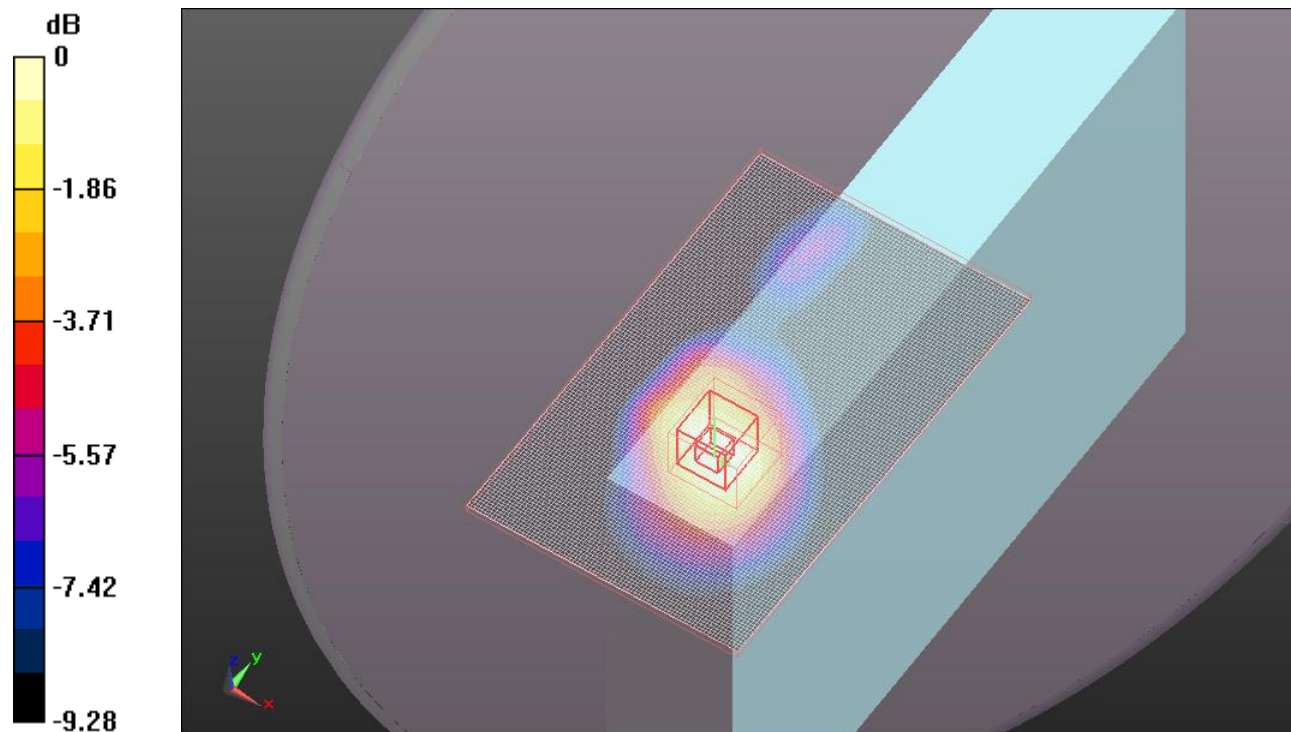
QPSK_10MHz_RB1_RB49_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 9.155 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.093 W/kg

SAR(1 g) = 0.065 mW/g; SAR(10 g) = 0.043 mW/g

Maximum value of SAR (measured) = 0.077 mW/g



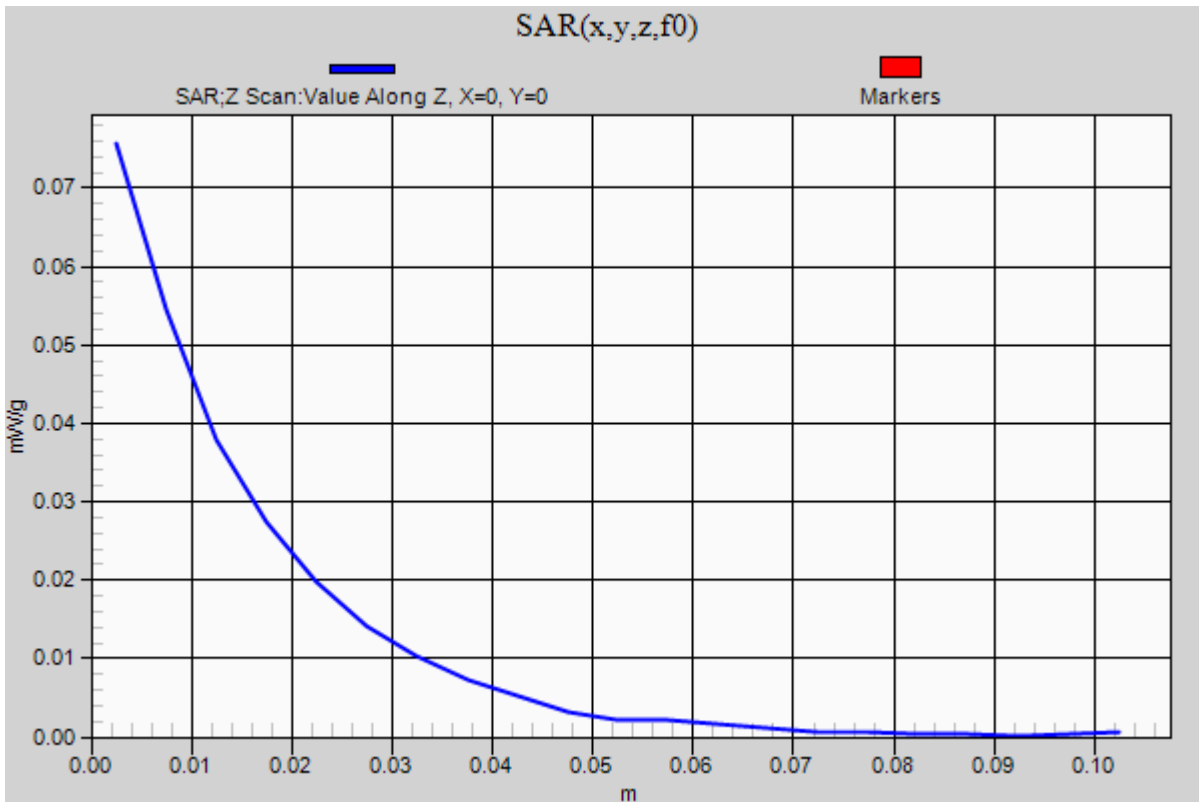
0 dB = 0.080mW/g

Test Laboratory: UL CCS SAR Lab B

LTE Band 17_Body_Secondary Landscape

Communication System: LTE; Frequency: 710 MHz;Duty Cycle: 1:1

QPSK_10MHz_RB1_RB49_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.076 mW/g



LTE Band 17_Secundary Landscape

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.922 \text{ mho/m}$; $\epsilon_r = 55.845$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117

QPSK_10MHz_RB25_RB12_Mid-Ch/Area Scan (9x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.051 mW/g

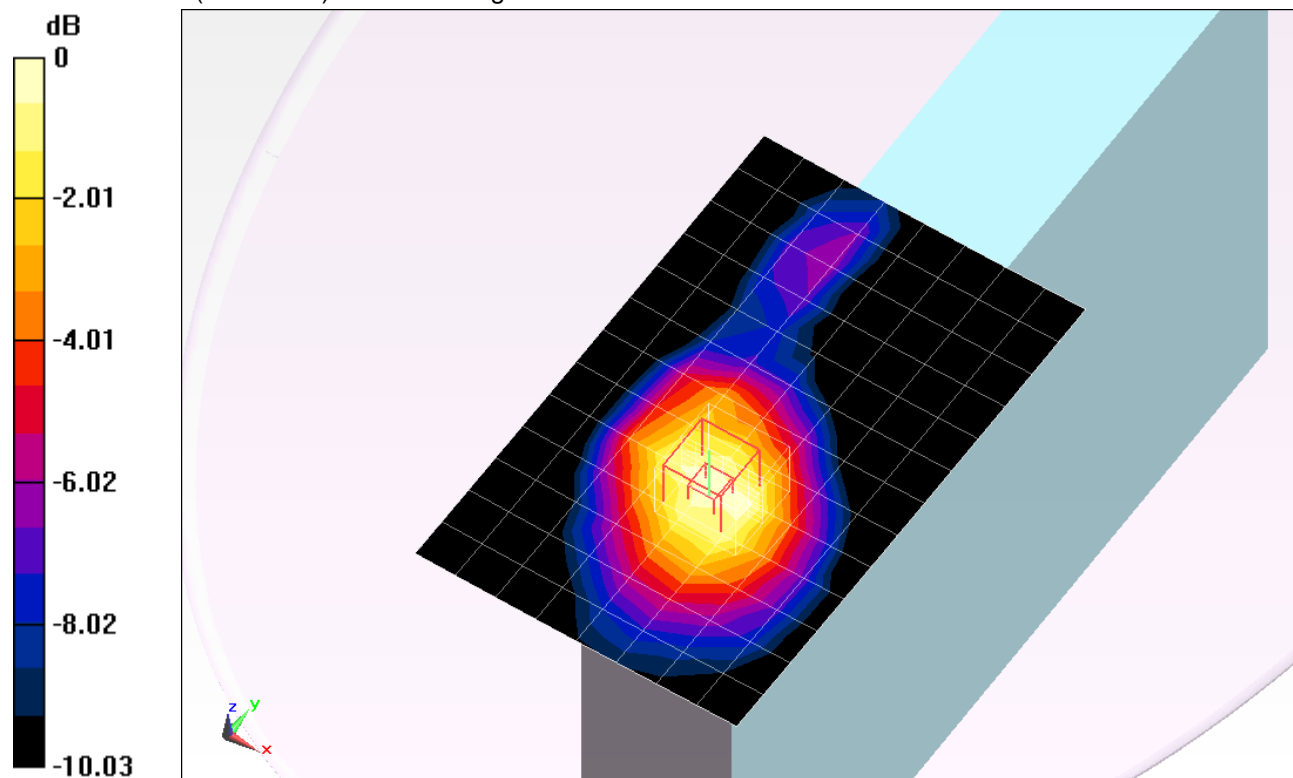
QPSK_10MHz_RB25_RB12_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=3\text{mm}$

Reference Value = 7.450 V/m; Power Drift = -0.0098 dB

Peak SAR (extrapolated) = 0.0650

SAR(1 g) = 0.044 mW/g; SAR(10 g) = 0.030 mW/g

Maximum value of SAR (measured) = 0.054 mW/g



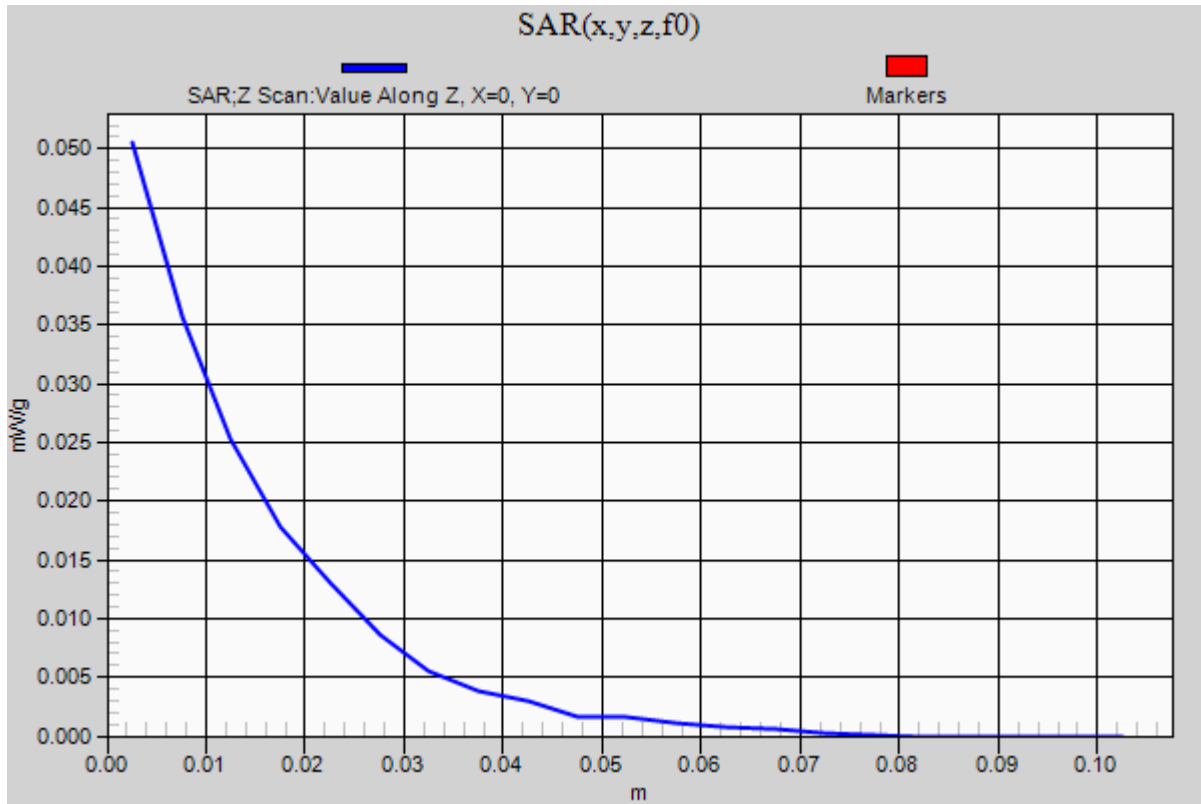
0 dB = 0.050mW/g = -26.02 dB mW/g

LTE Band 17_Secundary Landscape

Frequency: 710 MHz; Duty Cycle: 1:1

QPSK_10MHz_RB25_RB12_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 0.051 mW/g



LTE Band 17_Secundary Landscape

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.922 \text{ mho/m}$; $\epsilon_r = 55.845$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117

16QAM_10MHz_RB1_RB0_Mid-Ch/Area Scan (9x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.057 mW/g

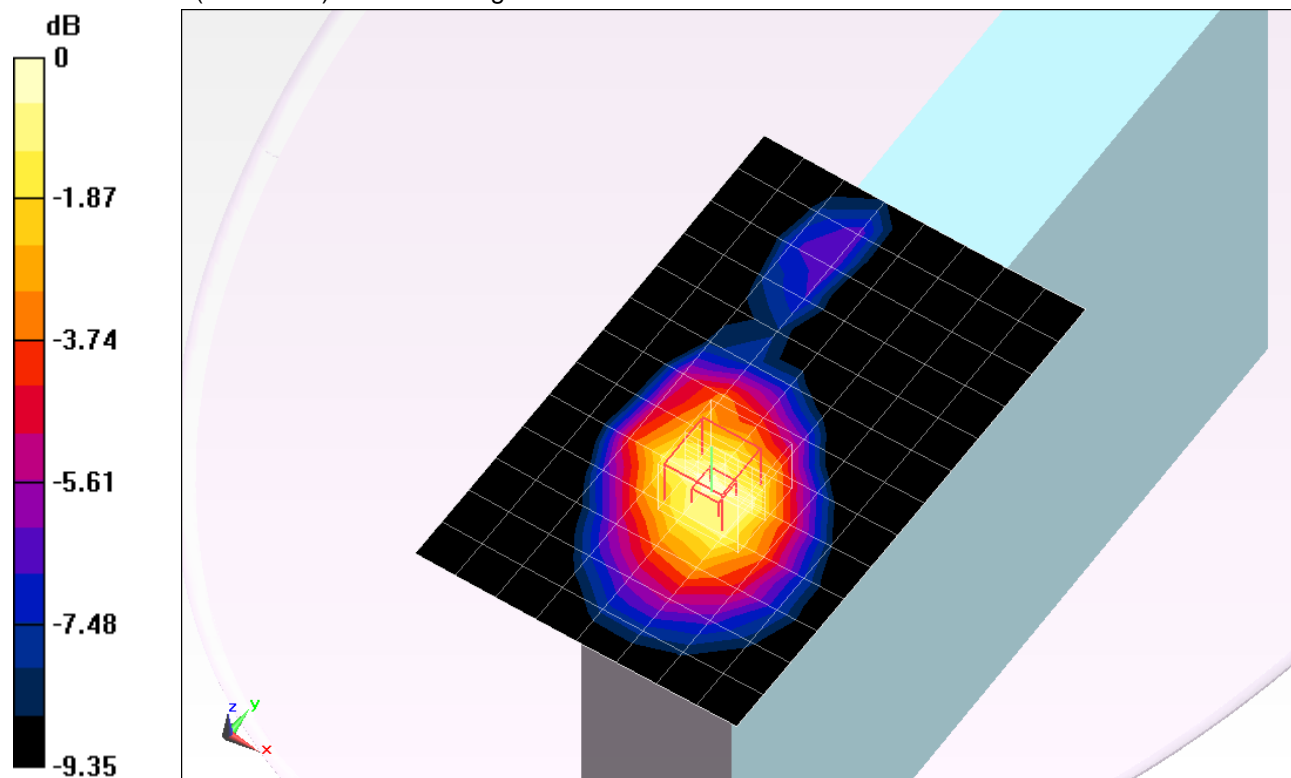
16QAM_10MHz_RB1_RB0_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=3\text{mm}$

Reference Value = 7.851 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.0770

SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.033 mW/g

Maximum value of SAR (measured) = 0.062 mW/g

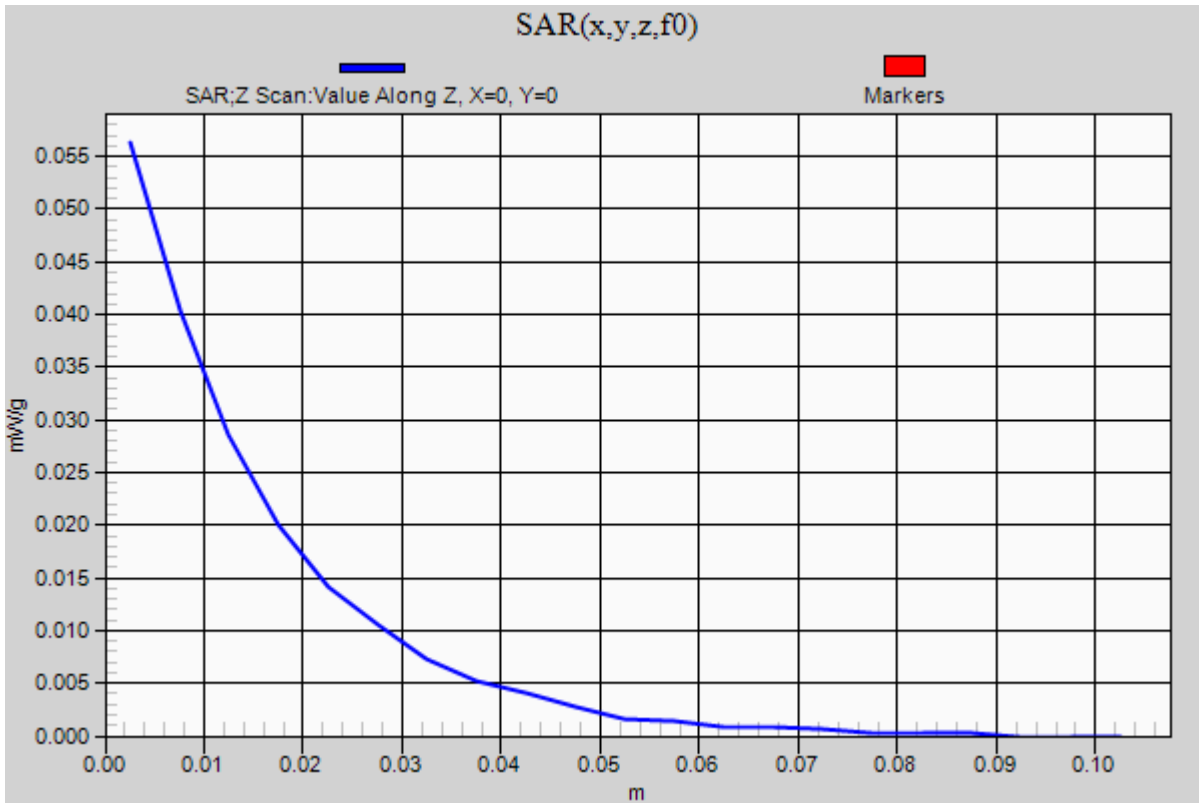


0 dB = 0.060mW/g = -24.44 dB mW/g

LTE Band 17_Secondary Landscape

Frequency: 710 MHz; Duty Cycle: 1:1

16QAM_10MHz_RB1_RB0_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.056 mW/g



Test Laboratory: UL CCS SAR Lab B

LTE Band 17_Body_Secondary Landscape

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.922 \text{ mho/m}$; $\epsilon_r = 55.845$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

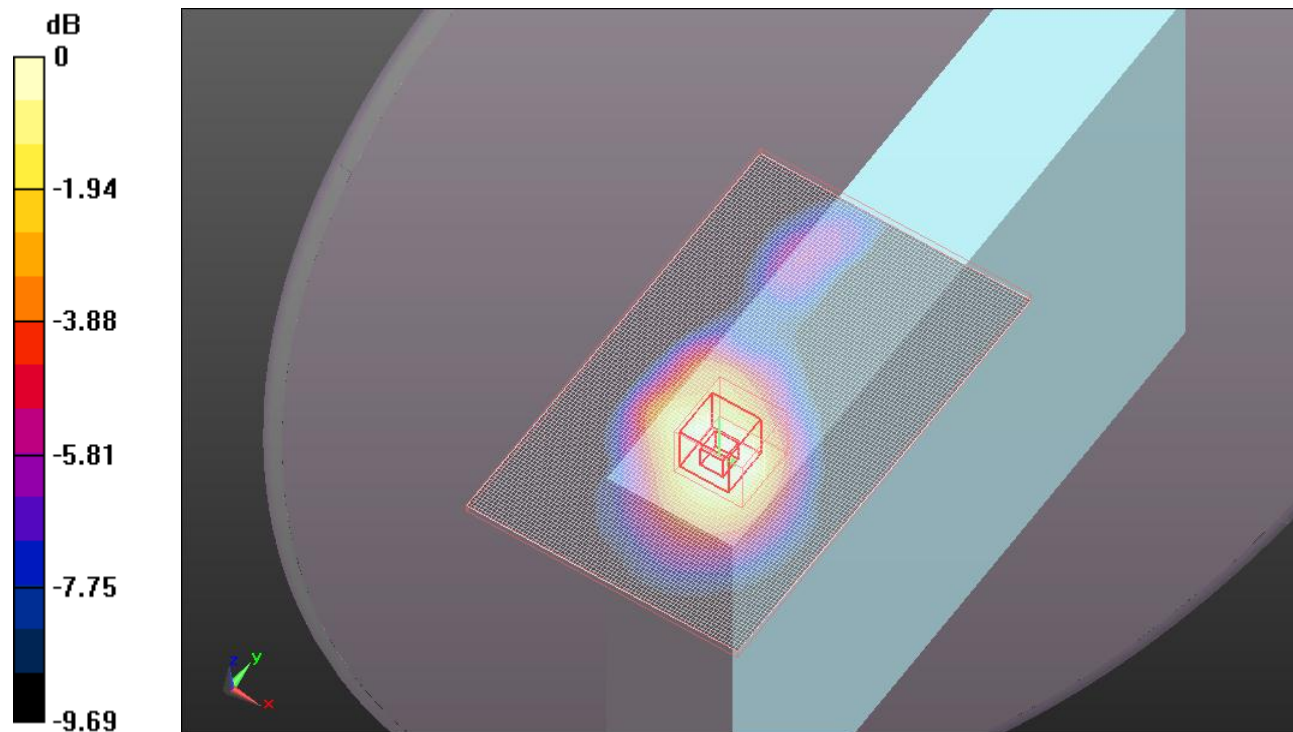
Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

16QAM_10MHz_RB1_RB49_Mid-Ch/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.063 mW/g

16QAM_10MHz_RB1_RB49_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm
 Reference Value = 8.127 V/m; Power Drift = 0.16 dB
 Peak SAR (extrapolated) = 0.078 W/kg
SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.035 mW/g
 Maximum value of SAR (measured) = 0.062 mW/g



0 dB = 0.060mW/g

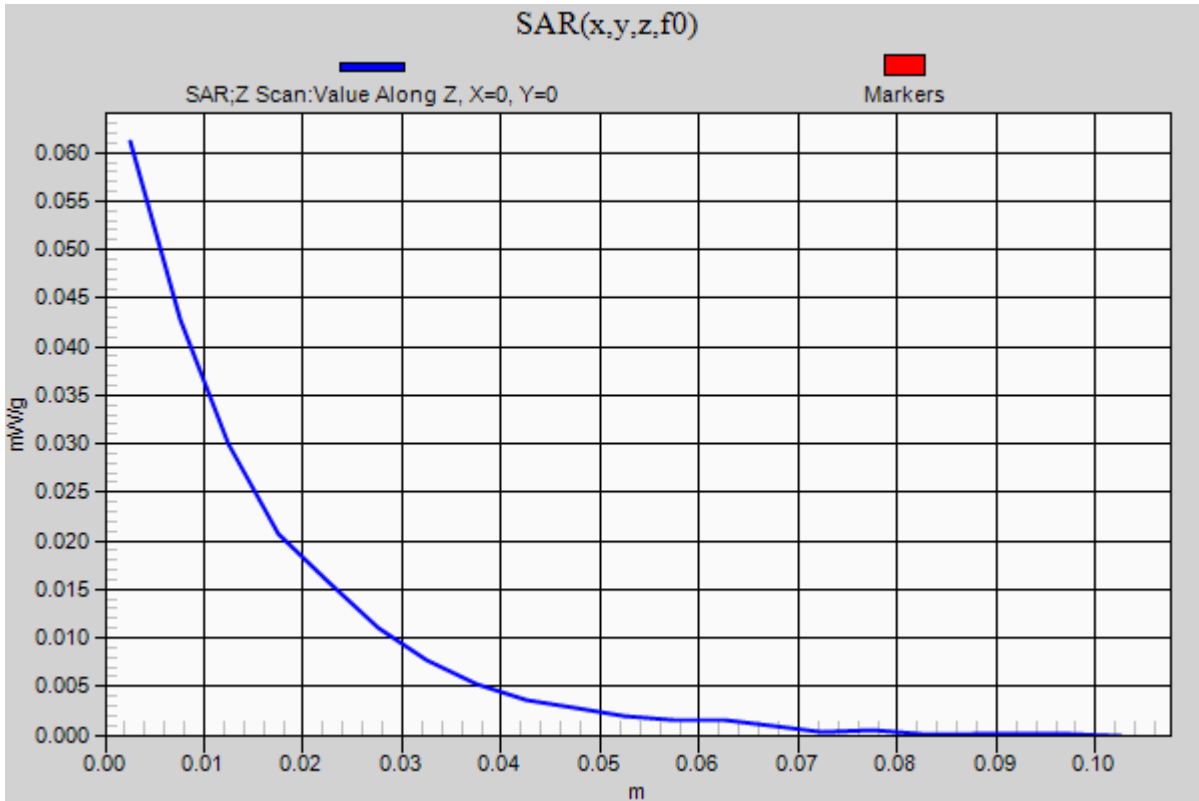
Test Laboratory: UL CCS SAR Lab B

LTE Band 17_Body_Secondary Landscape

Communication System: LTE; Frequency: 710 MHz;Duty Cycle: 1:1

16QAM_10MHz_RB1_RB49_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 0.061 mW/g



LTE Band 17_Secundary Landscape

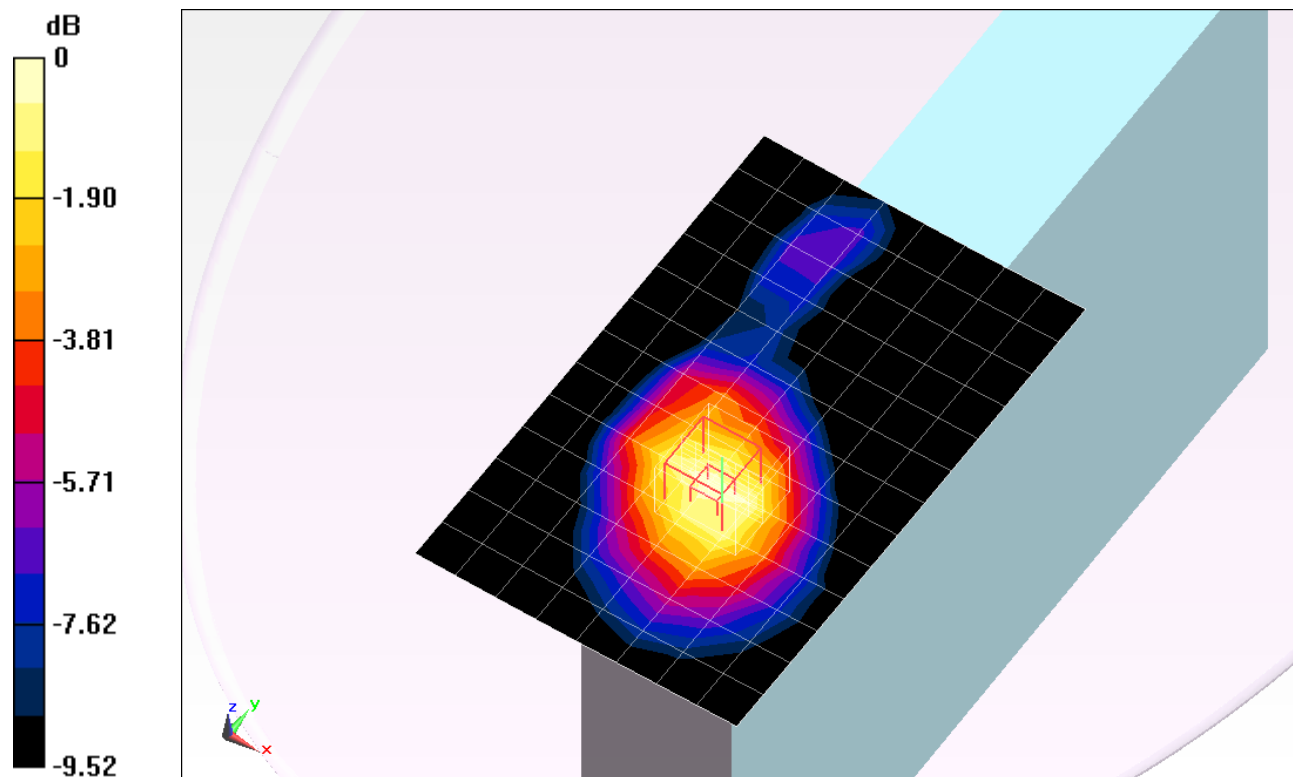
Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.922 \text{ mho/m}$; $\epsilon_r = 55.845$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117

16QAM_10MHz_RB25_RB12_Mid-Ch/Area Scan (9x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.039 mW/g

16QAM_10MHz_RB25_RB12_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=3\text{mm}$
 Reference Value = 6.460 V/m; Power Drift = 0.10 dB
 Peak SAR (extrapolated) = 0.0490
SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.022 mW/g



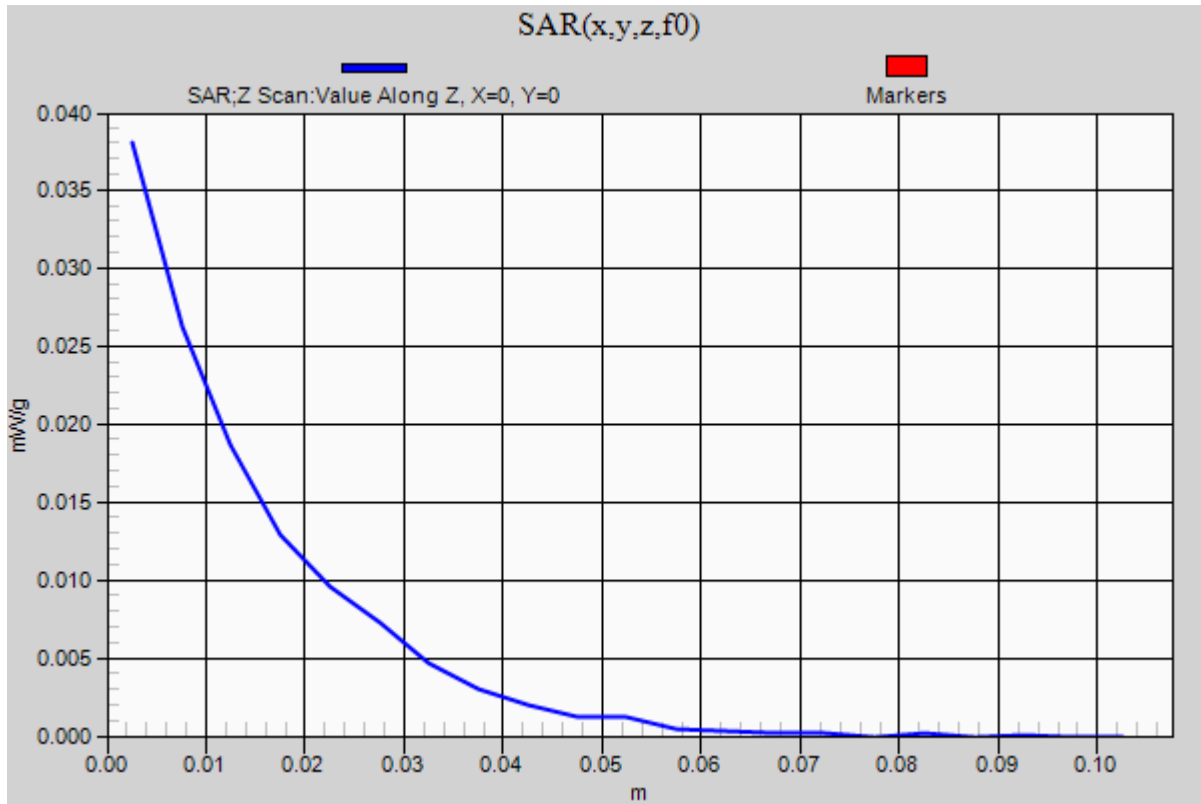
0 dB = 0.040mW/g = -27.96 dB mW/g

LTE Band 17_Secundary Landscape

Frequency: 710 MHz; Duty Cycle: 1:1

16QAM_10MHz_RB25_RB12_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 0.038 mW/g



LTE Band 17_Body_Bottom

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 56.397$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

QPSK_10MHz_RB1_RB0_Mid-Ch/Area Scan (10x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.041 mW/g

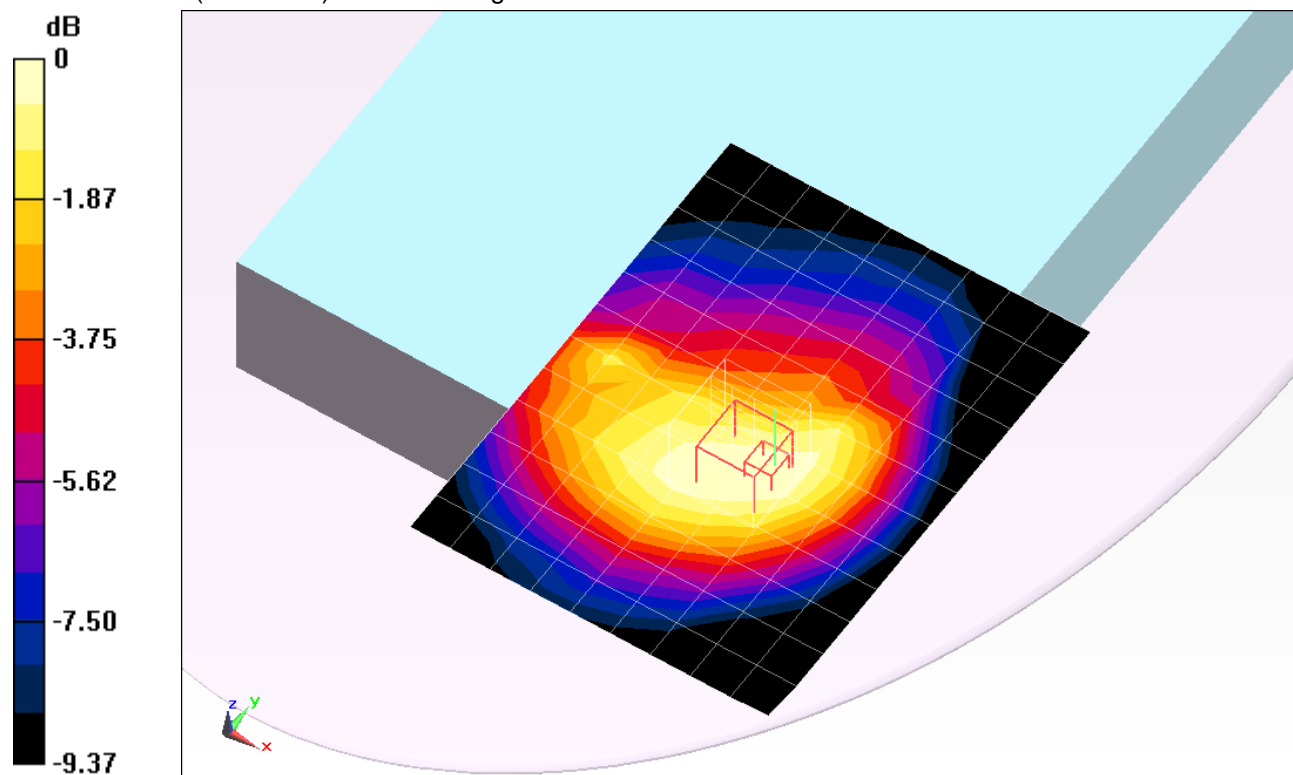
QPSK_10MHz_RB1_RB0_Mid-Ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.602 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0520

SAR(1 g) = 0.036 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.043 mW/g

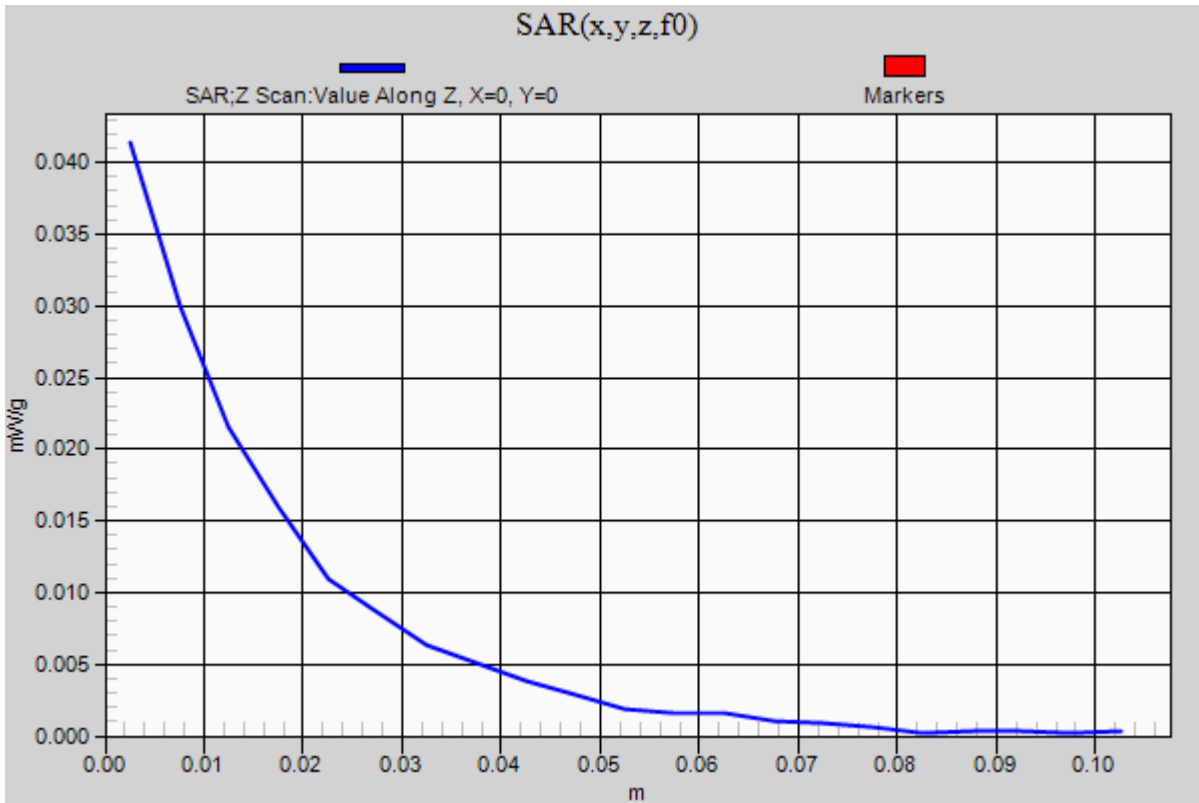


0 dB = 0.040mW/g = -27.96 dB mW/g

LTE Band 17_Body_Bottom

Frequency: 710 MHz; Duty Cycle: 1:1

QPSK_10MHz_RB1_RB0_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.041 mW/g



Test Laboratory: UL CCS SAR Lab B

LTE Band 17_Body_Bottom

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 710$ MHz; $\sigma = 0.904$ mho/m; $\epsilon_r = 54.659$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

QPSK_10MHz_RB1_RB49_Mid-Ch/Area Scan (91x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.042 mW/g

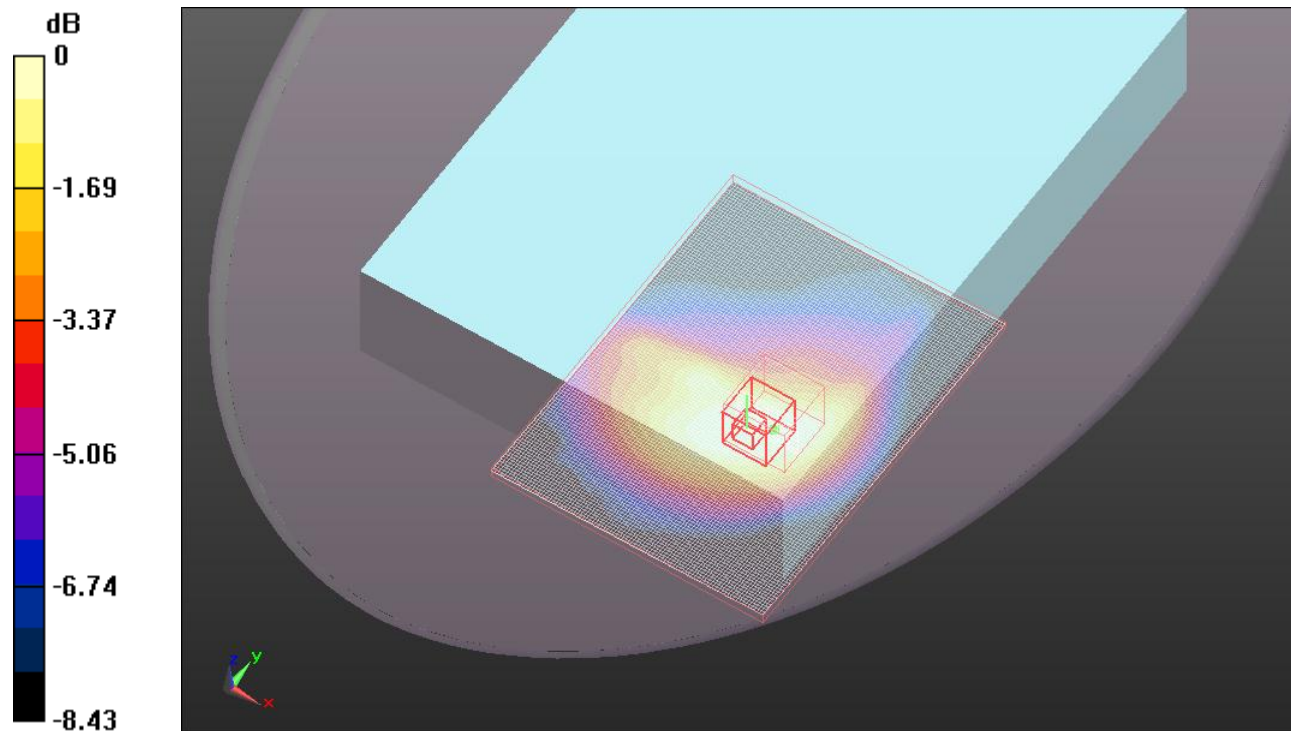
QPSK_10MHz_RB1_RB49_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 6.740 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.051 W/kg

SAR(1 g) = 0.035 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.042 mW/g



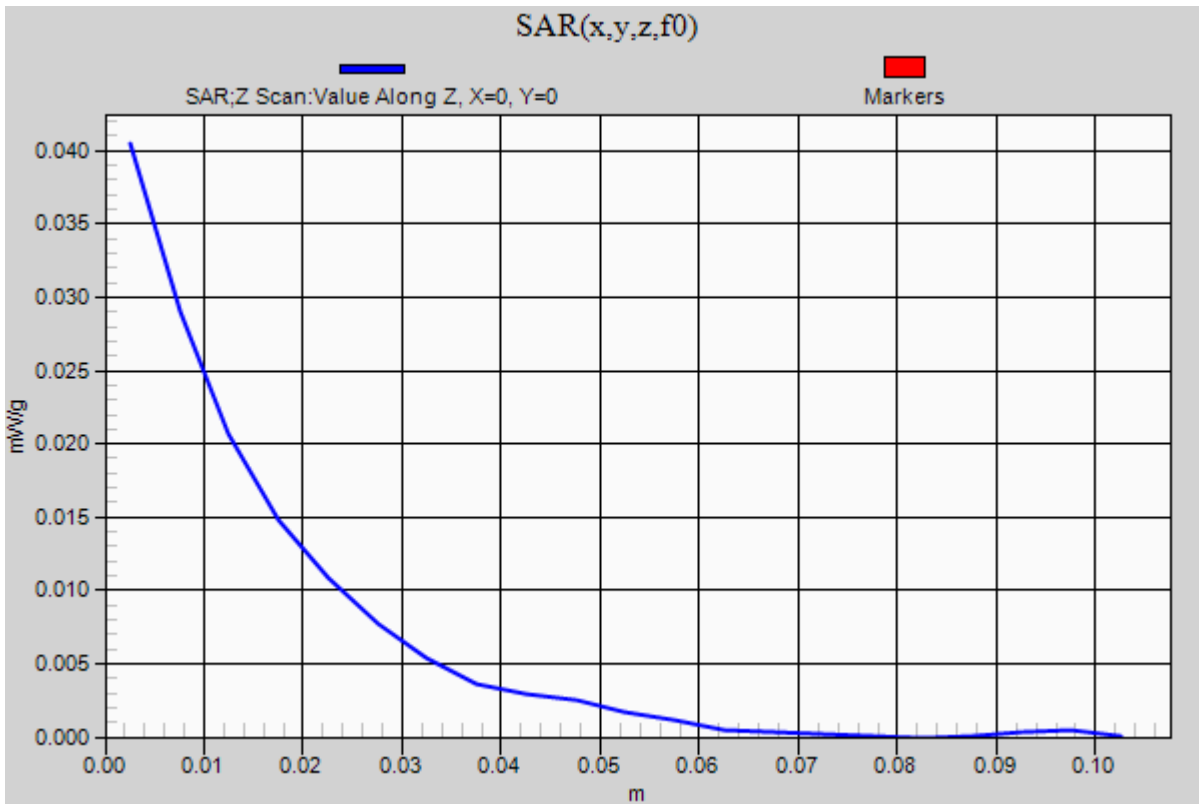
0 dB = 0.040mW/g

Test Laboratory: UL CCS SAR Lab B

LTE Band 17_Body_Bottom

Communication System: LTE; Frequency: 710 MHz;Duty Cycle: 1:1

QPSK_10MHz_RB1_RB49_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.040 mW/g



LTE Band 17_Body_Bottom

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 56.397$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

QPSK_10MHz_RB25_RB12_Mid-Ch/Area Scan (10x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.030 mW/g

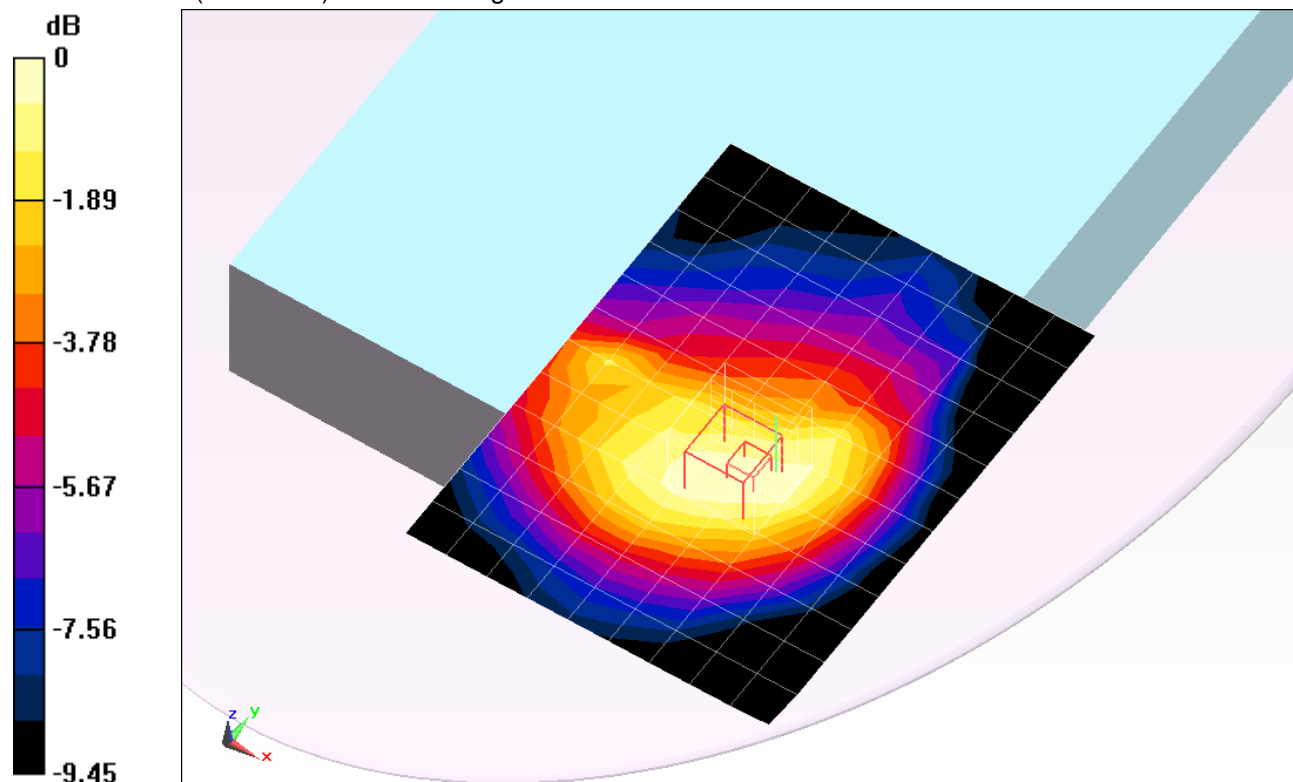
QPSK_10MHz_RB25_RB12_Mid-Ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.619 V/m; Power Drift = -0.0042 dB

Peak SAR (extrapolated) = 0.0380

SAR(1 g) = 0.026 mW/g; SAR(10 g) = 0.018 mW/g

Maximum value of SAR (measured) = 0.031 mW/g



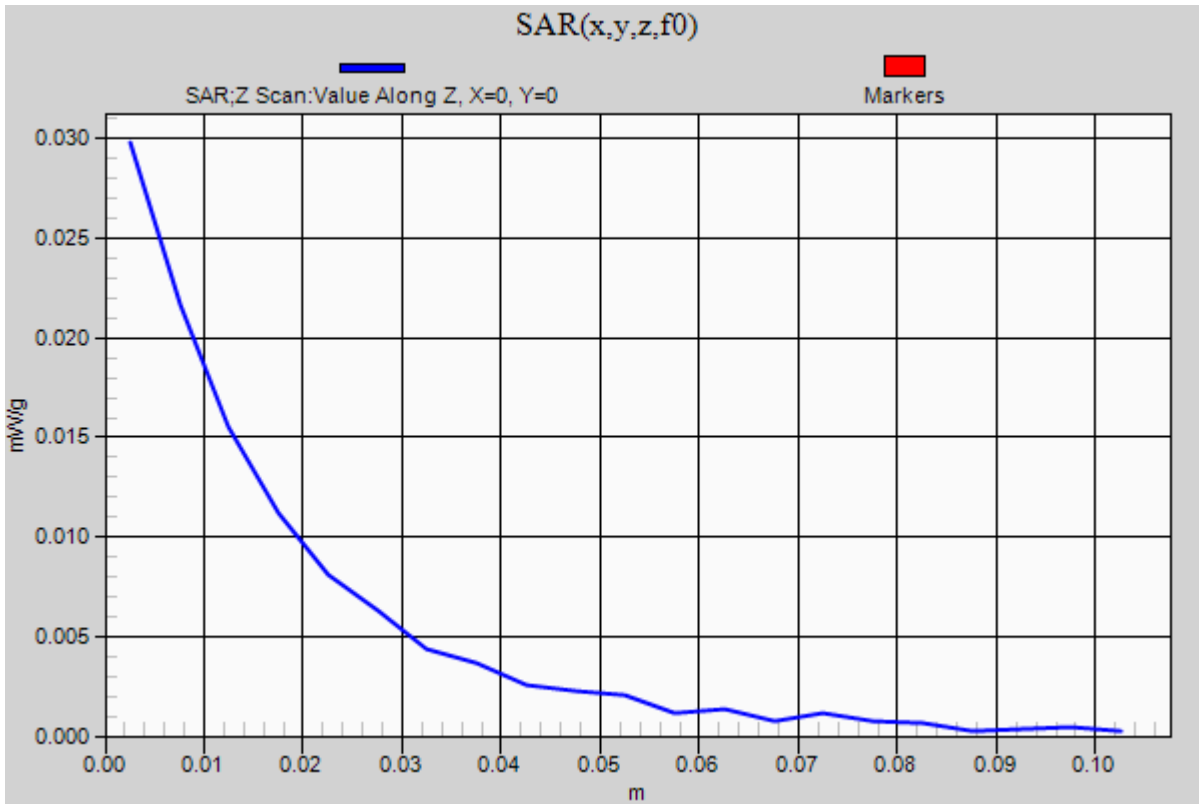
0 dB = 0.030mW/g = -30.46 dB mW/g

LTE Band 17_Body_Bottom

Frequency: 710 MHz; Duty Cycle: 1:1

QPSK_10MHz_RB25_RB12_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 0.030 mW/g



LTE Band 17_Body_Bottom

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 56.397$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

16QAM_10MHz_RB1_RB0_Mid-Ch/Area Scan (10x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.035 mW/g

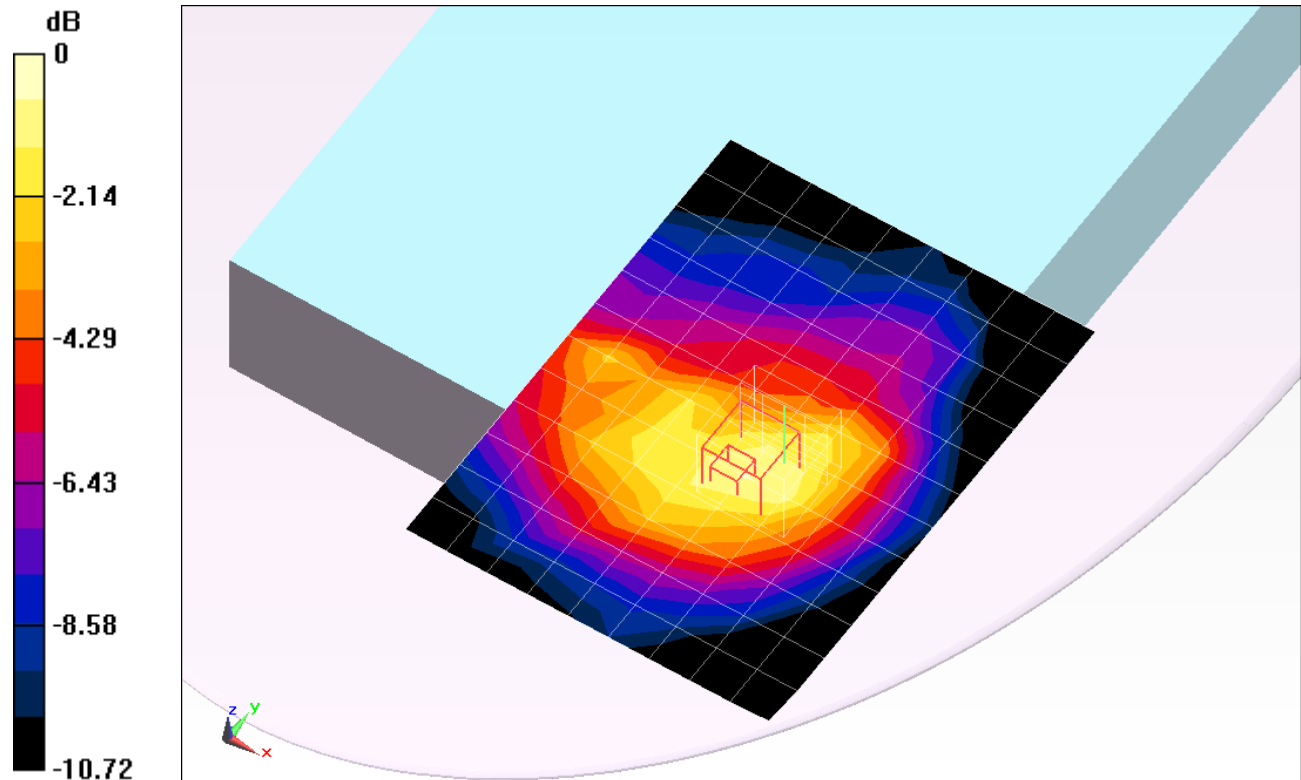
16QAM_10MHz_RB1_RB0_Mid-Ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.750 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.0450

SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.020 mW/g

Maximum value of SAR (measured) = 0.036 mW/g

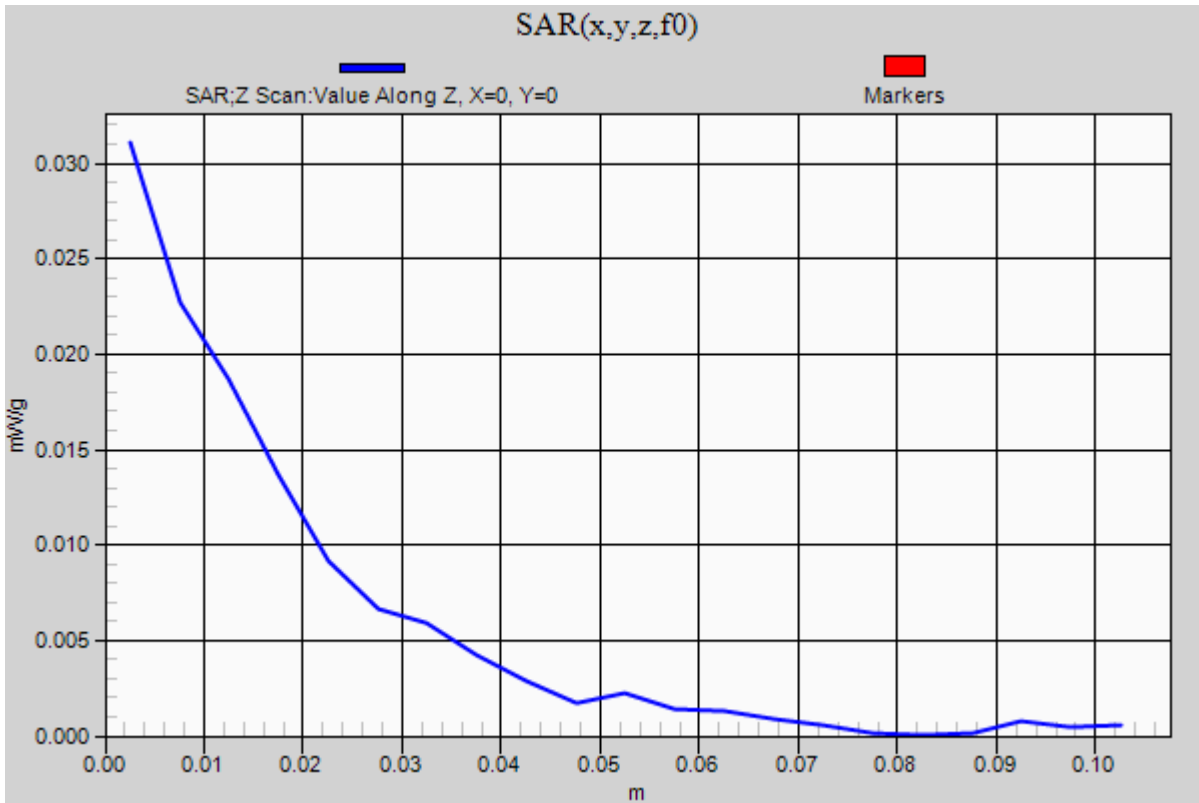


0 dB = 0.040mW/g = -27.96 dB mW/g

LTE Band 17_Body_Bottom

Frequency: 710 MHz; Duty Cycle: 1:1

16QAM_10MHz_RB1_RB0_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.031 mW/g



Test Laboratory: UL CCS SAR Lab B

LTE Band 17_Body_Bottom

Communication System: LTE; Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 710$ MHz; $\sigma = 0.904$ mho/m; $\epsilon_r = 54.659$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1258; Calibrated: 5/2/2011
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

16QAM_10MHz_RB1_RB49_Mid-Ch/Area Scan (91x121x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.033 mW/g

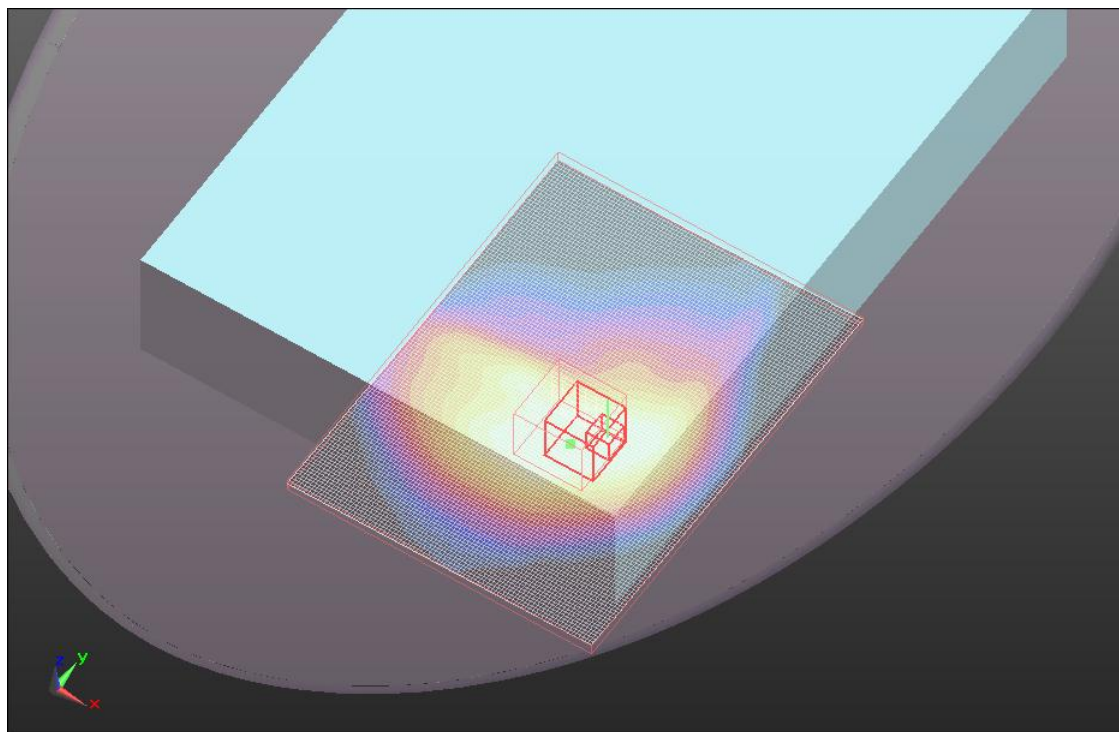
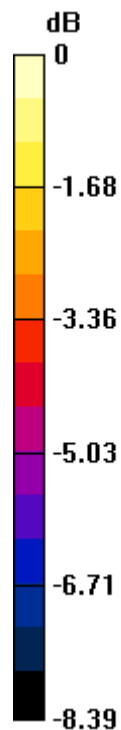
16QAM_10MHz_RB1_RB49_Mid-Ch/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=3mm

Reference Value = 5.954 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.040 W/kg

SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.033 mW/g



0 dB = 0.030mW/g

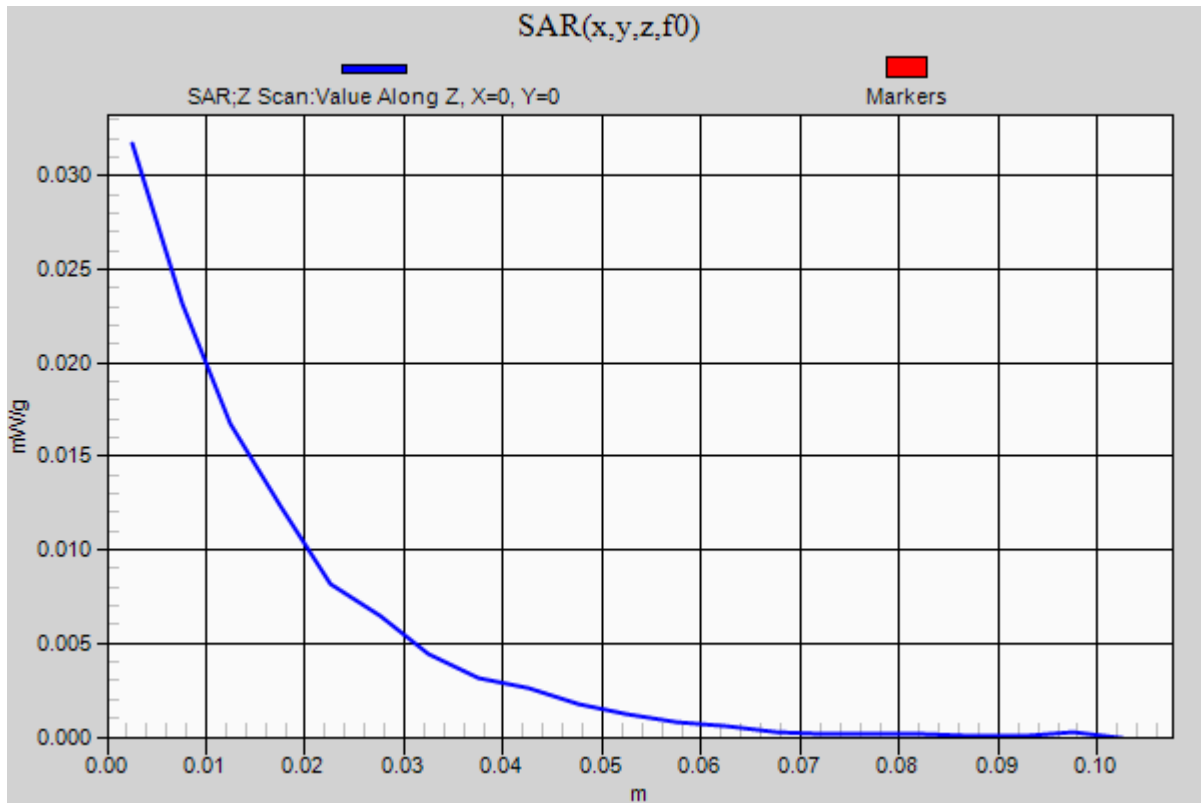
Test Laboratory: UL CCS SAR Lab B

LTE Band 17_Body_Bottom

Communication System: LTE; Frequency: 710 MHz;Duty Cycle: 1:1

16QAM_10MHz_RB1_RB49_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 0.032 mW/g



LTE Band 17_Body_Bottom

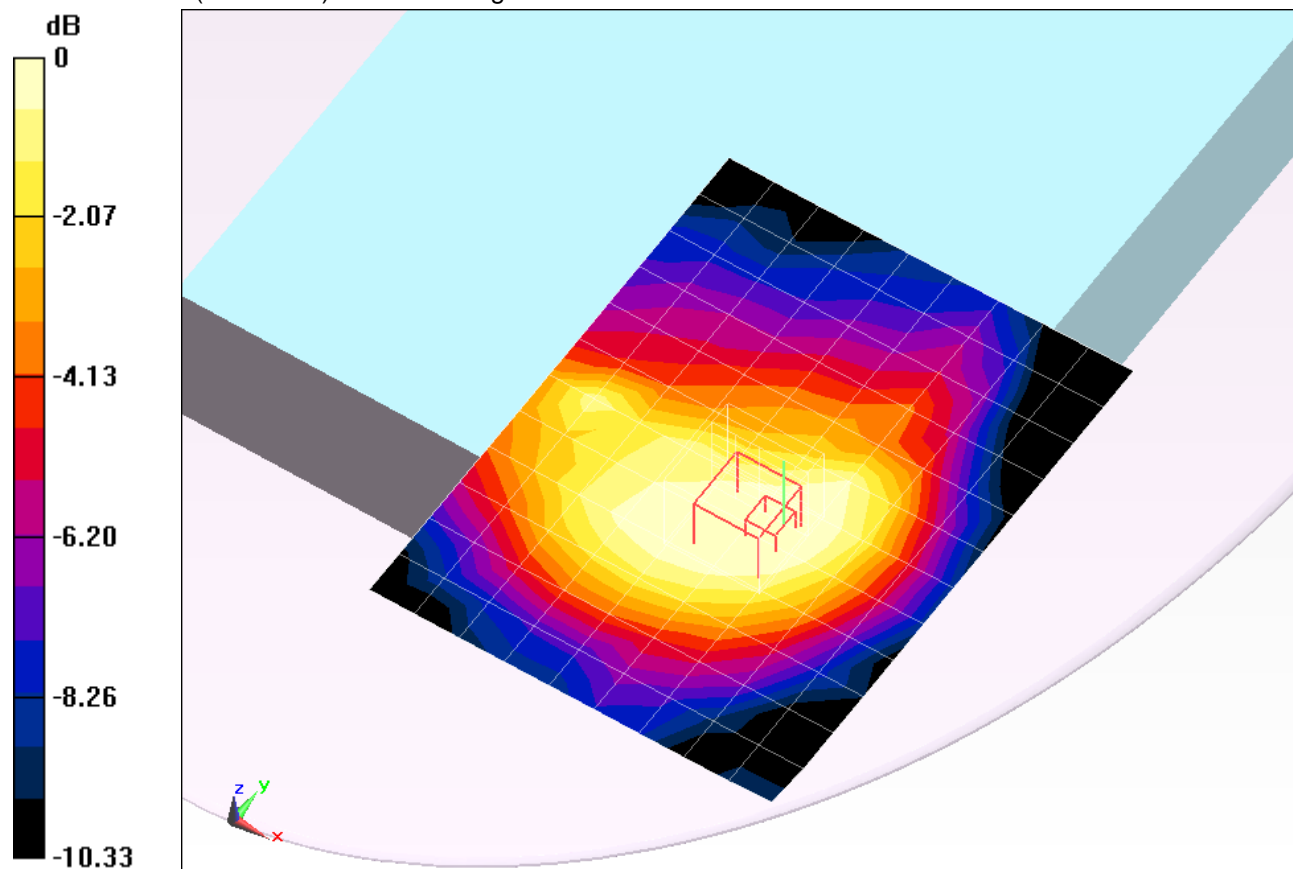
Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 56.397$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

16QAM_10MHz_RB25_RB12_Mid-Ch/Area Scan (10x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.023 mW/g

16QAM_10MHz_RB25_RB12_Mid-Ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 4.930 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 0.0300
SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.014 mW/g
 Maximum value of SAR (measured) = 0.024 mW/g



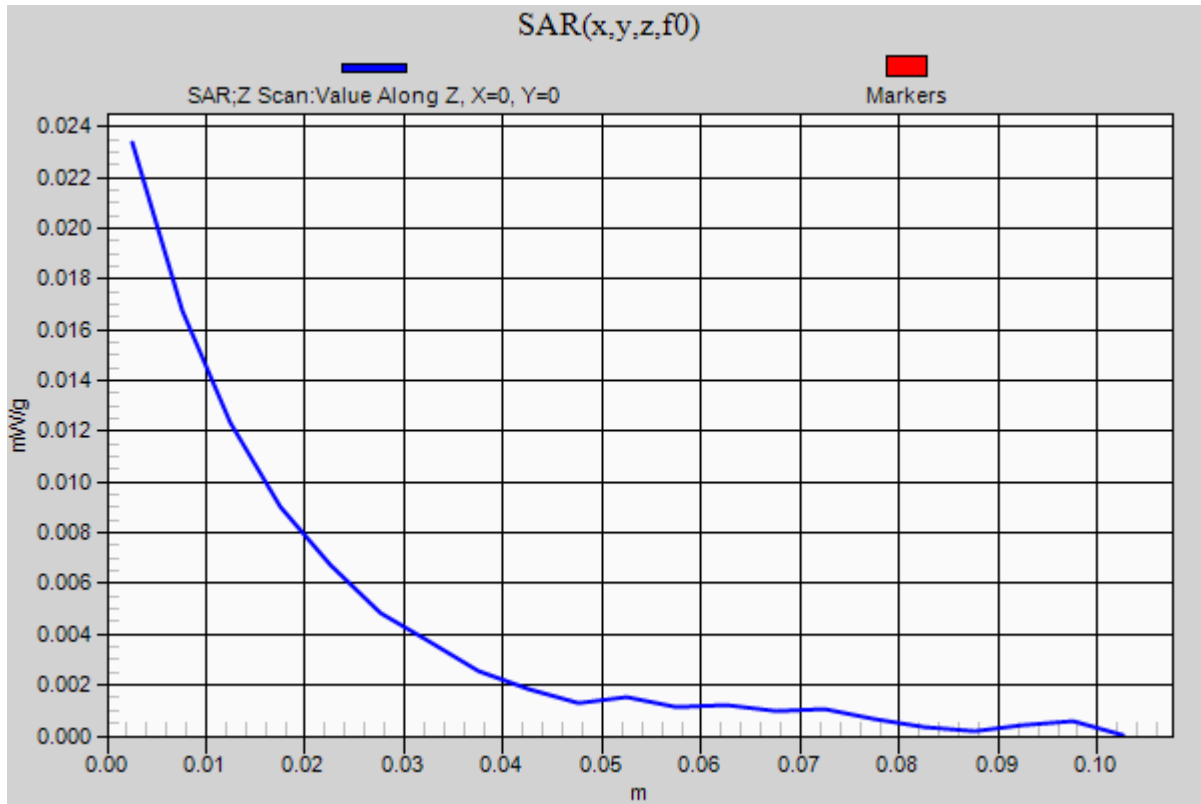
0 dB = 0.020mW/g = -33.98 dB mW/g

LTE Band 17_Body_Bottom

Frequency: 710 MHz; Duty Cycle: 1:1

16QAM_10MHz_RB25_RB12_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 0.023 mW/g



LTE Band 17_Lapheld

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.952 \text{ mho/m}$; $\epsilon_r = 57.125$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

QPSK_10MHz_RB1_RB0_Mid-Ch/Area Scan (10x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.00892 mW/g

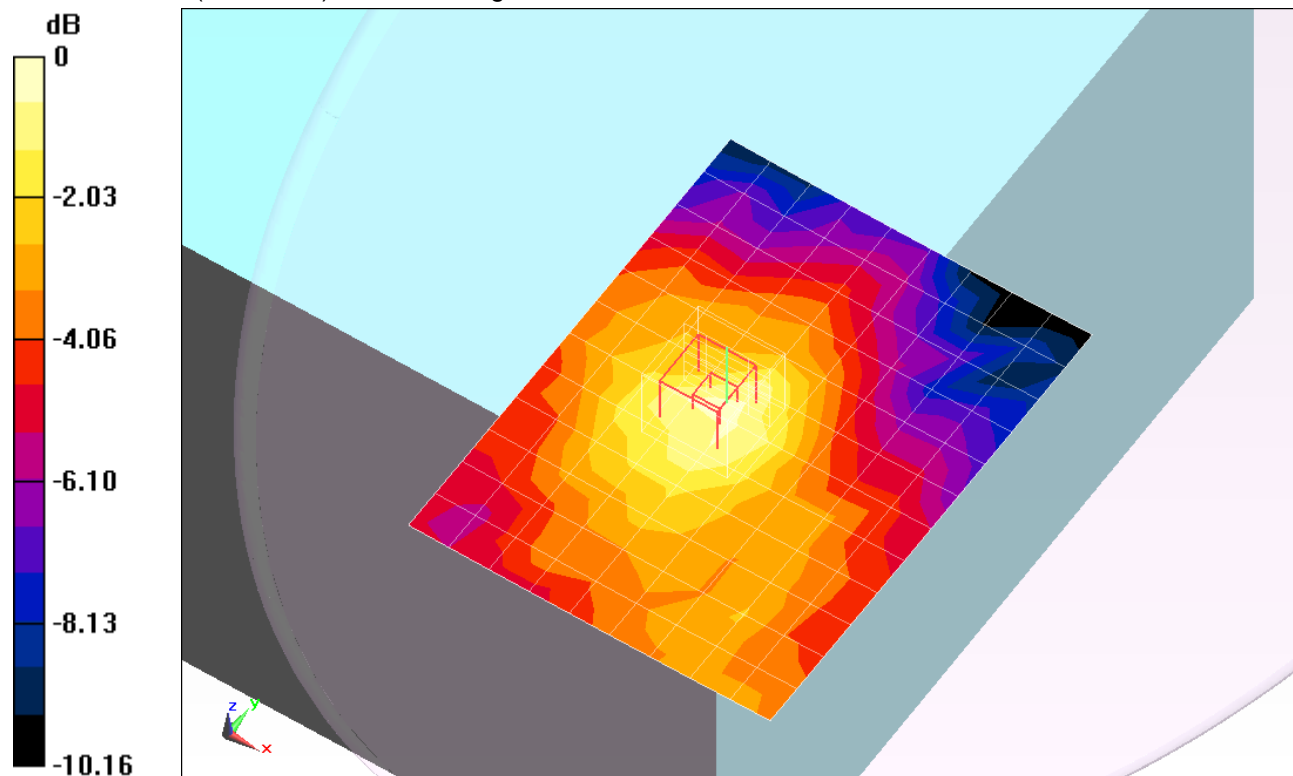
QPSK_10MHz_RB1_RB0_Mid-Ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.065 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.0130

SAR(1 g) = 0.00846 mW/g; SAR(10 g) = 0.00587 mW/g

Maximum value of SAR (measured) = 0.010 mW/g



0 dB = 0.010mW/g = -40.00 dB mW/g

LTE Band 17_Lapheld

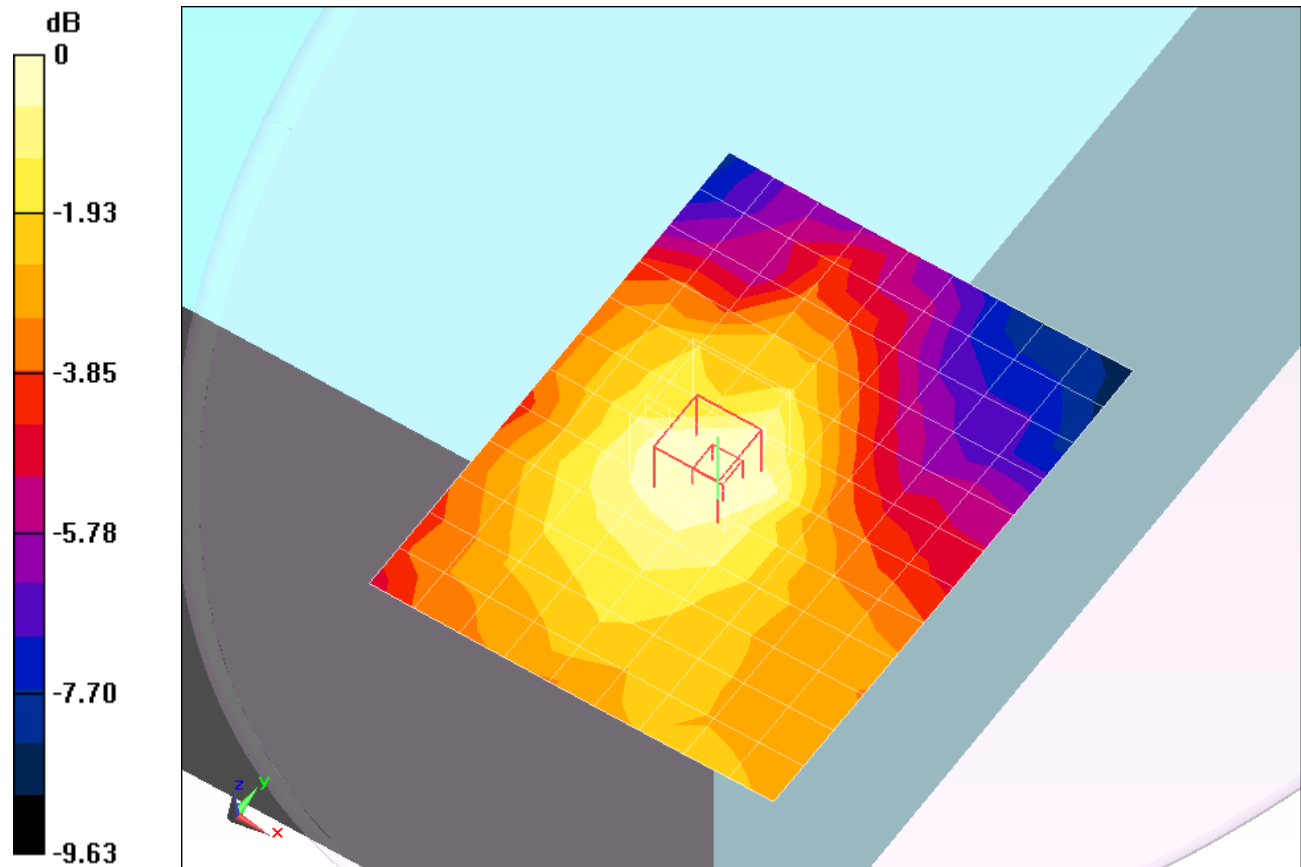
Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.952 \text{ mho/m}$; $\epsilon_r = 57.125$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

QPSK_10MHz_RB1_RB49_Mid-Ch/Area Scan (10x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.011 mW/g

QPSK_10MHz_RB1_RB49_Mid-Ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 3.273 V/m; Power Drift = -0.05 dB
 Peak SAR (extrapolated) = 0.0140
SAR(1 g) = 0.00928 mW/g; SAR(10 g) = 0.00664 mW/g

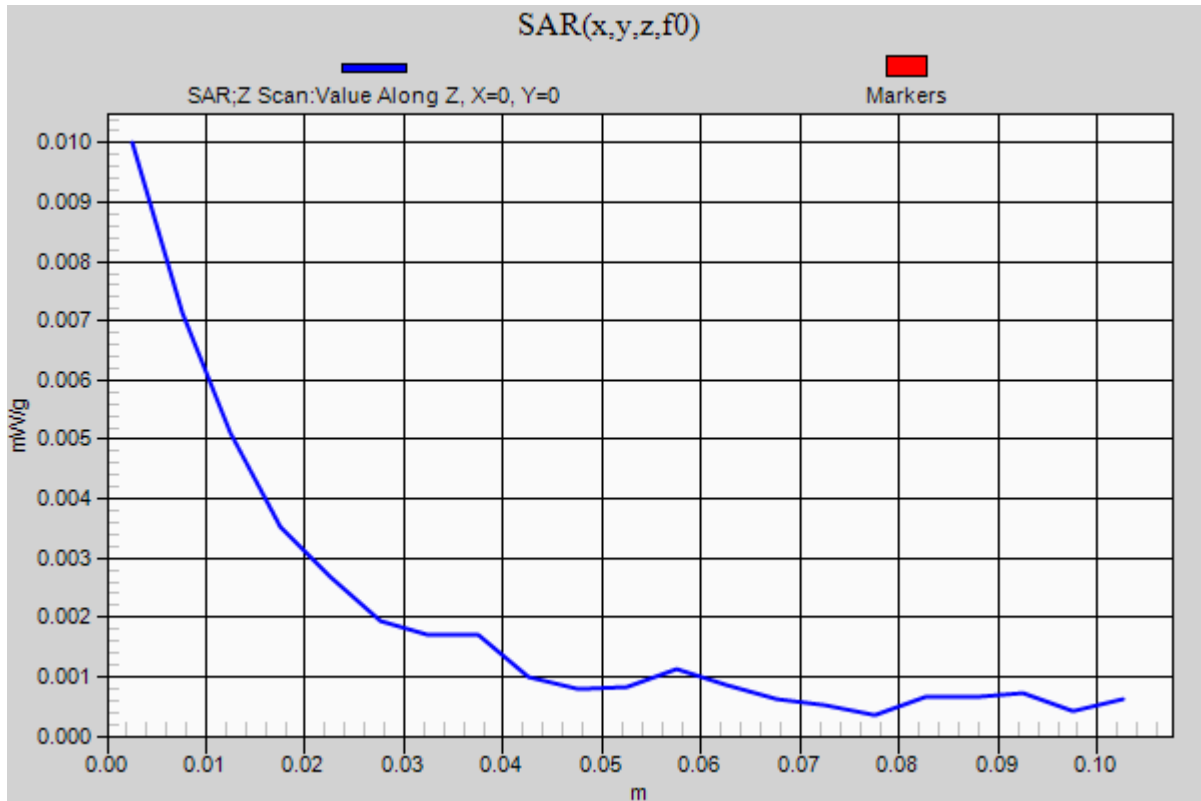


0 dB = 0.010mW/g = -40.00 dB mW/g

LTE Band 17_Lapheld

Frequency: 710 MHz; Duty Cycle: 1:1

QPSK_10MHz_RB1_RB49_Mid-Ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.010 mW/g



LTE Band 17_Lapheld

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.952 \text{ mho/m}$; $\epsilon_r = 57.125$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

QPSK_10MHz_RB25_RB12_Mid-Ch/Area Scan (10x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.00647 mW/g

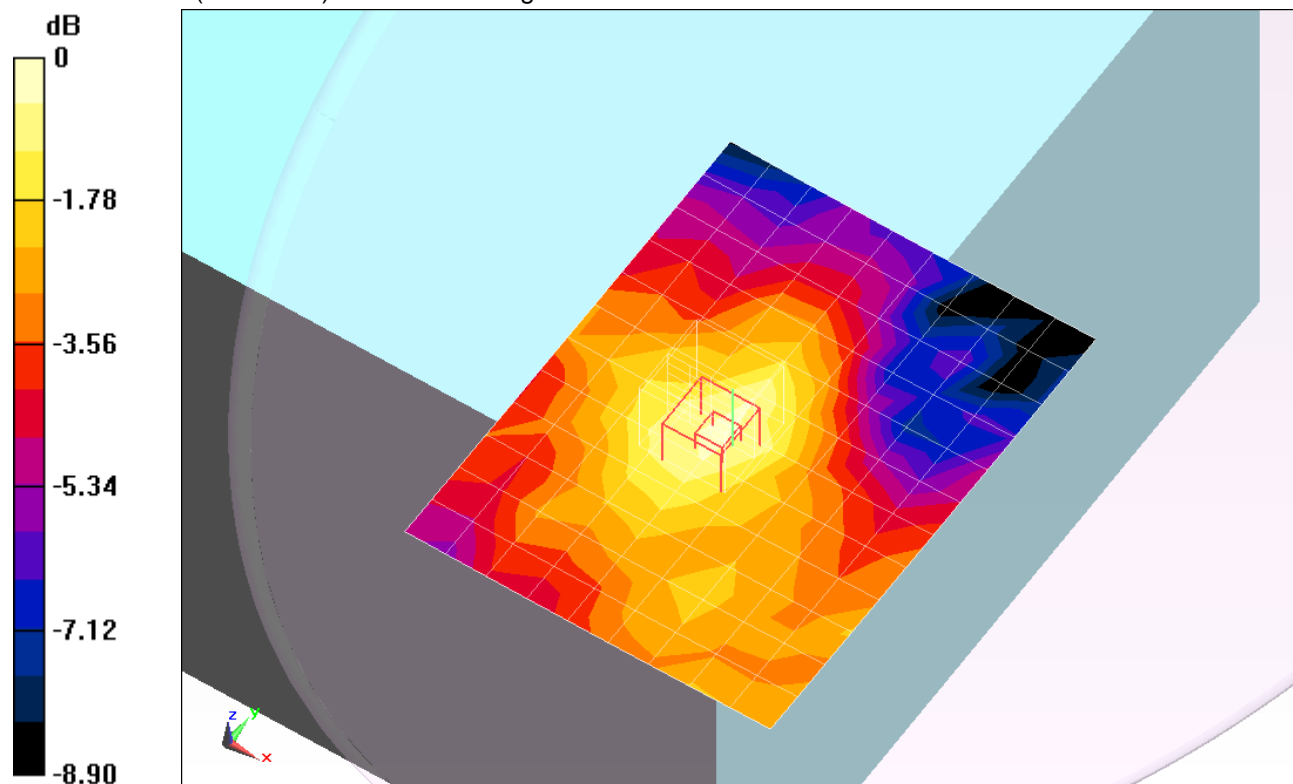
QPSK_10MHz_RB25_RB12_Mid-Ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.607 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.008450

SAR(1 g) = 0.00558 mW/g; SAR(10 g) = 0.00404 mW/g

Maximum value of SAR (measured) = 0.00707 mW/g



0 dB = 0.0071mW/g = -42.97 dB mW/g

LTE Band 17_Lapheld

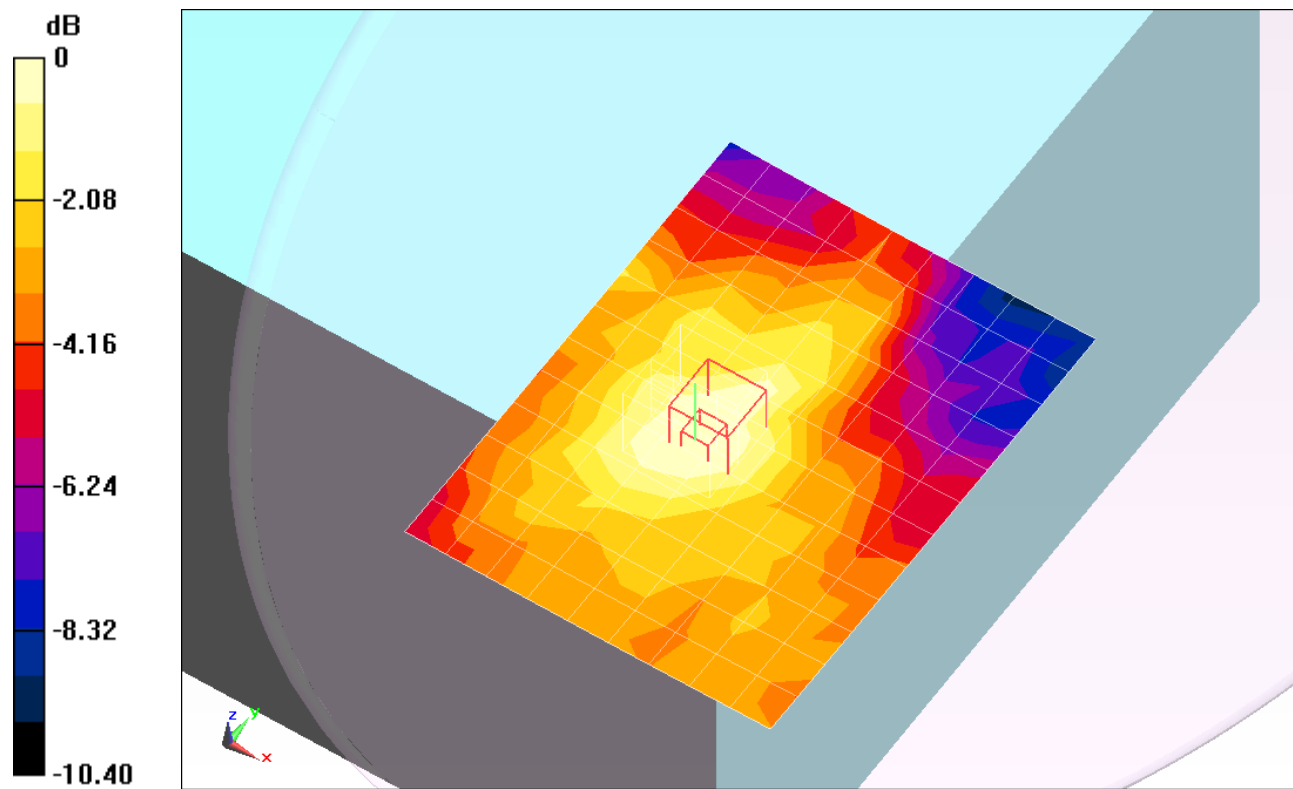
Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.952 \text{ mho/m}$; $\epsilon_r = 57.125$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

16QAM_10MHz_RB1_RB0_Mid-Ch 2/Area Scan (10x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.00763 mW/g

16QAM_10MHz_RB1_RB0_Mid-Ch 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.536 V/m; Power Drift = 0.18 dB
 Peak SAR (extrapolated) = 0.009440
SAR(1 g) = 0.00581 mW/g; SAR(10 g) = 0.00419 mW/g



0 dB = 0.0076mW/g = -42.38 dB mW/g

LTE Band 17_Lapheld

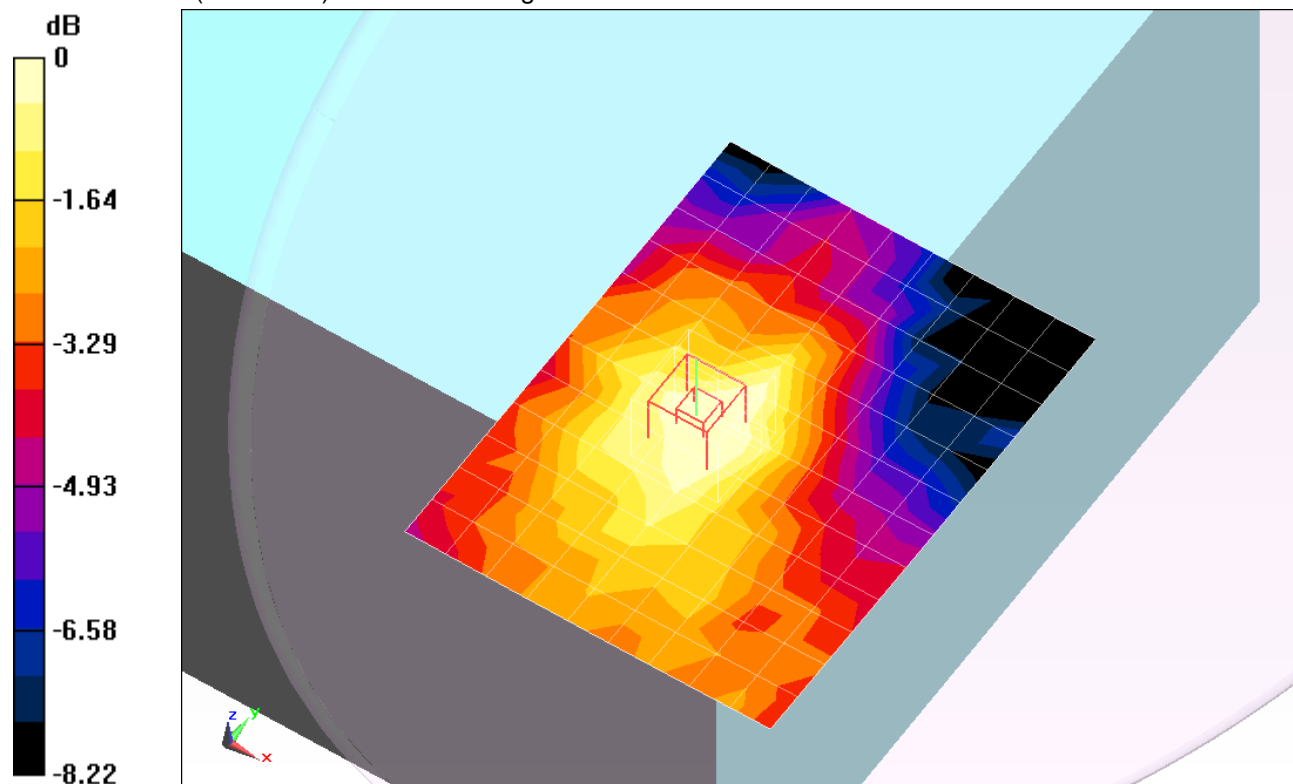
Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.952 \text{ mho/m}$; $\epsilon_r = 57.125$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

16QAM_10MHz_RB1_RB49_Mid-Ch/Area Scan (10x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.00878 mW/g

16QAM_10MHz_RB1_RB49_Mid-Ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.889 V/m; Power Drift = 0.10 dB
 Peak SAR (extrapolated) = 0.009870
SAR(1 g) = 0.00716 mW/g; SAR(10 g) = 0.0053 mW/g
 Maximum value of SAR (measured) = 0.00831 mW/g



0 dB = 0.0083mW/g = -41.62 dB mW/g

LTE Band 17_Lapheld

Frequency: 710 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
 Medium parameters used: $f = 710 \text{ MHz}$; $\sigma = 0.952 \text{ mho/m}$; $\epsilon_r = 57.125$; $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Probe: EX3DV4 - SN3773; ConvF(8.74, 8.74, 8.74); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1099

16QAM_10MHz_RB25_RB12_Mid-Ch/Area Scan (10x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.00523 mW/g

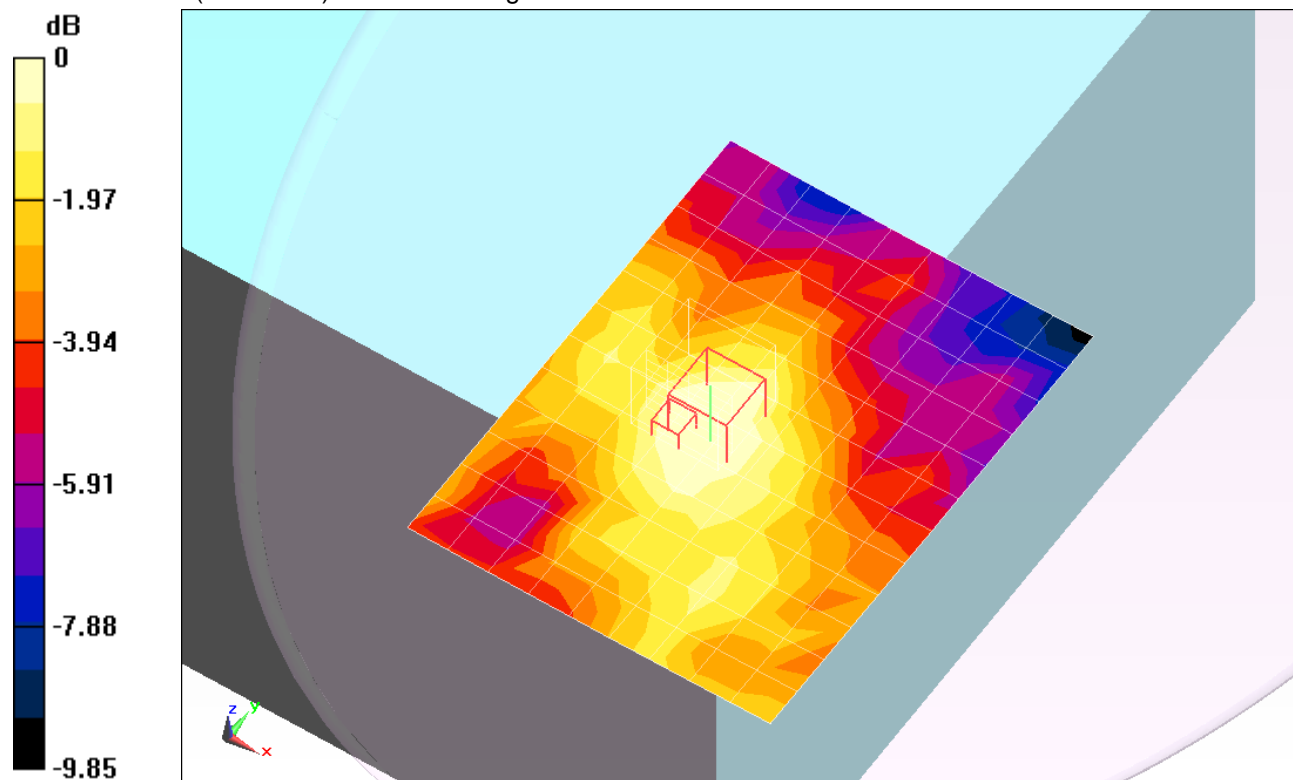
16QAM_10MHz_RB25_RB12_Mid-Ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.318 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.005610

SAR(1 g) = 0.00425 mW/g; SAR(10 g) = 0.0031 mW/g

Maximum value of SAR (measured) = 0.0049 mW/g



0 dB = 0.0049mW/g = -46.20 dB mW/g