LTE Band 13

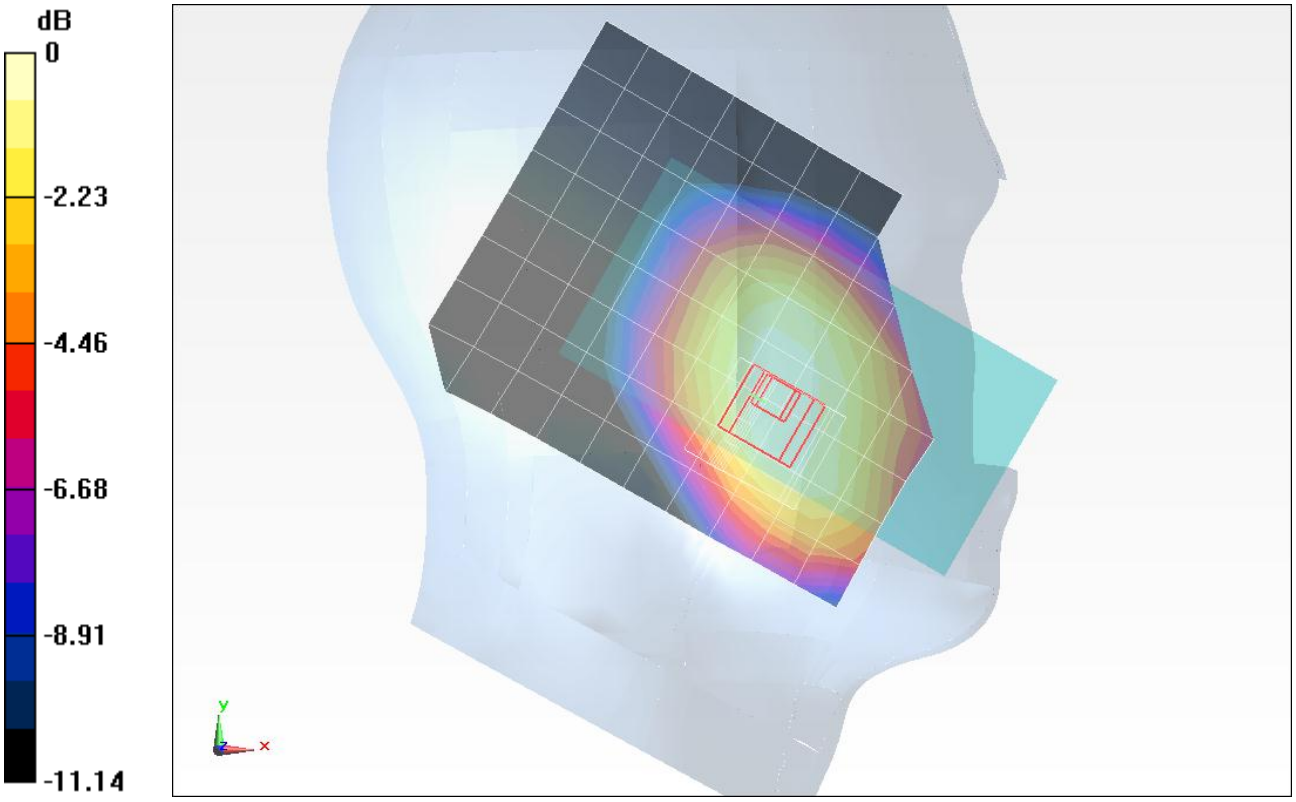
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Touch_QPSK_RB 25/12_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.306 mW/g

Left/Touch_QPSK_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.426 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.3520
SAR(1 g) = 0.276 mW/g; SAR(10 g) = 0.202 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.307 mW/g



0 dB = 0.310mW/g = -10.17 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

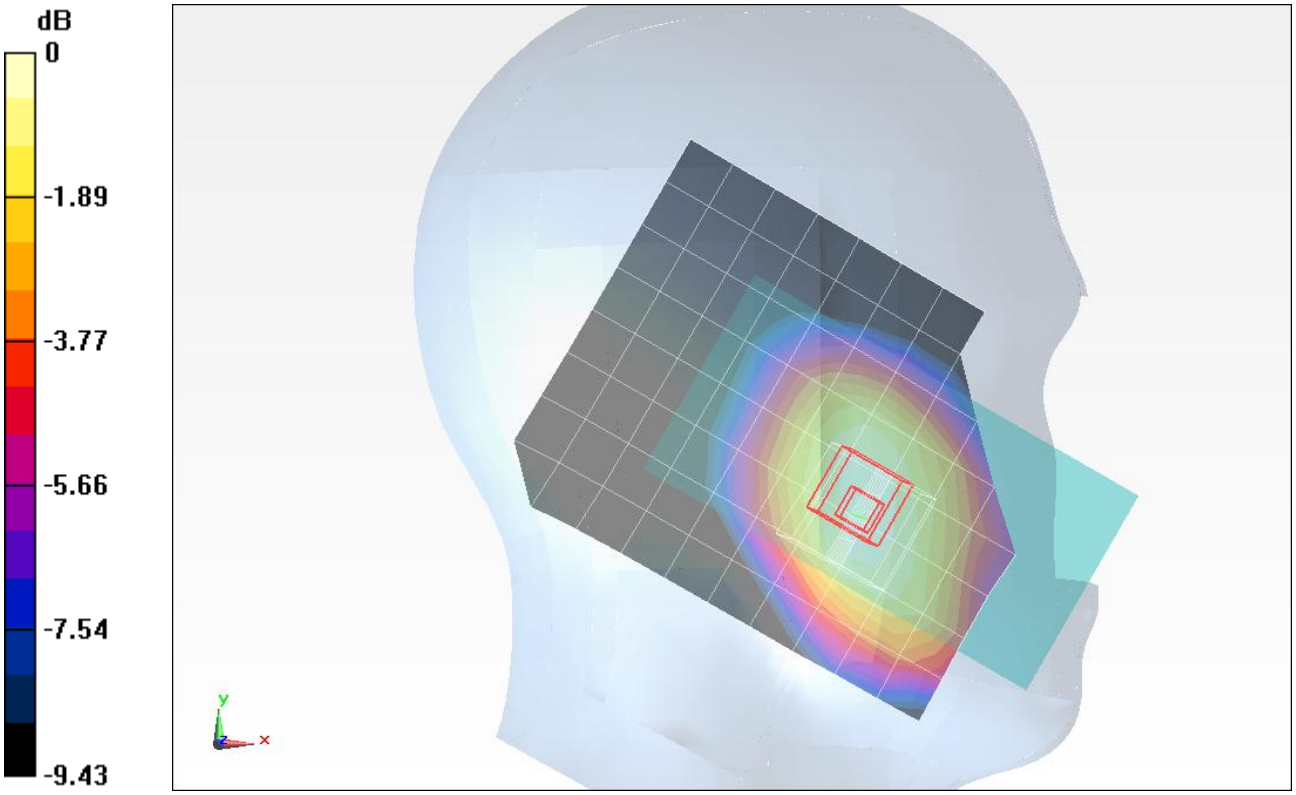
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Touch_QPSK_RB 1/0_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.356 mW/g

Left/Touch_QPSK_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.723 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.4060
SAR(1 g) = 0.324 mW/g; SAR(10 g) = 0.246 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.360 mW/g



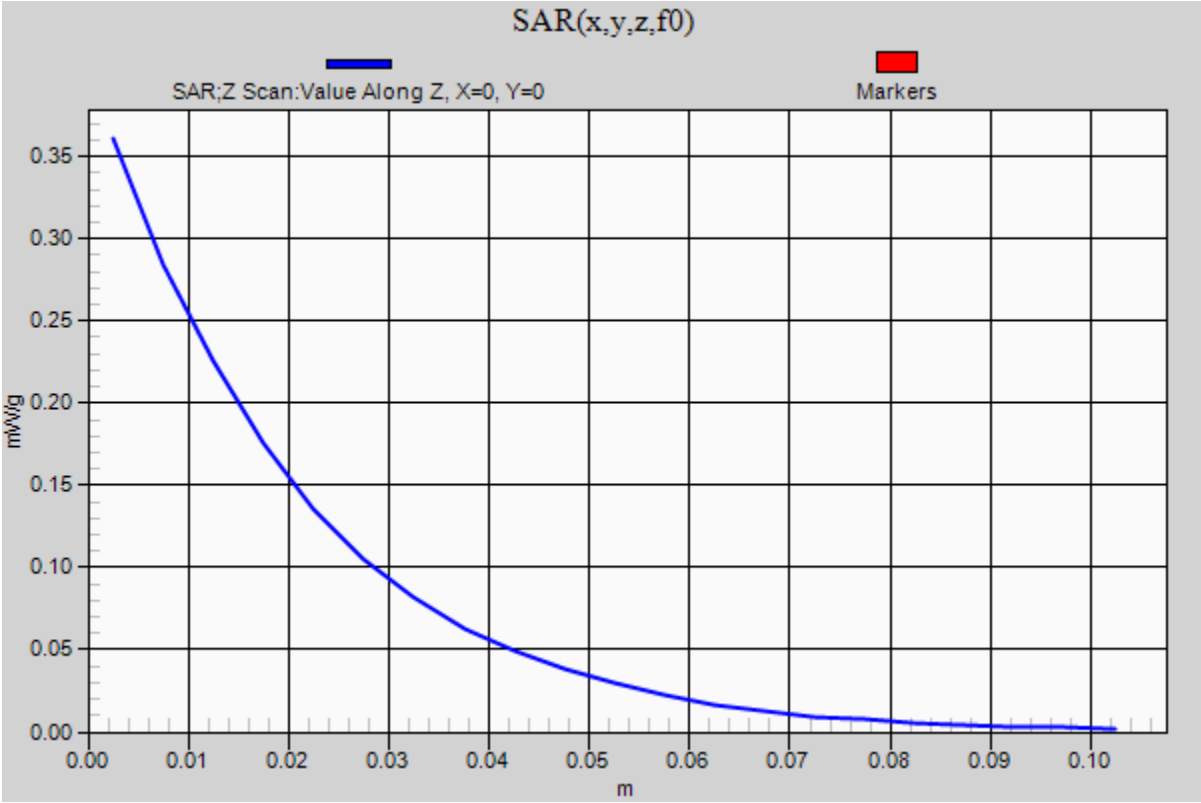
0 dB = 0.360mW/g = -8.87 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

Frequency: 782 MHz; Duty Cycle: 1:1

Left/Touch_QPSK_RB 1/0_Ch 782/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.361 mW/g



Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

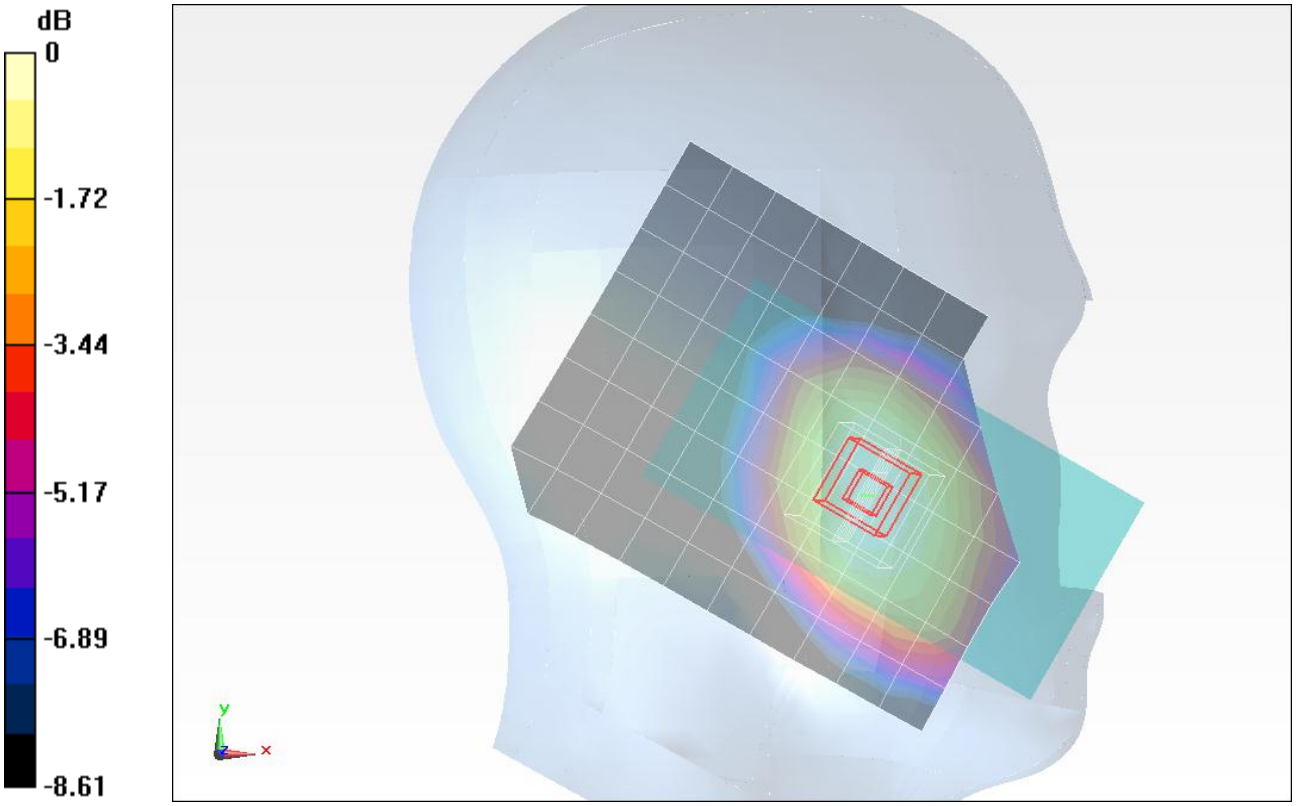
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Touch_QPSK_RB 1/0_Ch 782 w/Wireless charger /Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.309 mW/g

Left/Touch_QPSK_RB 1/0_Ch 782 w/Wireless charger /Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.925 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.3400
SAR(1 g) = 0.276 mW/g; SAR(10 g) = 0.212 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.307 mW/g



0 dB = 0.310mW/g = -10.17 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

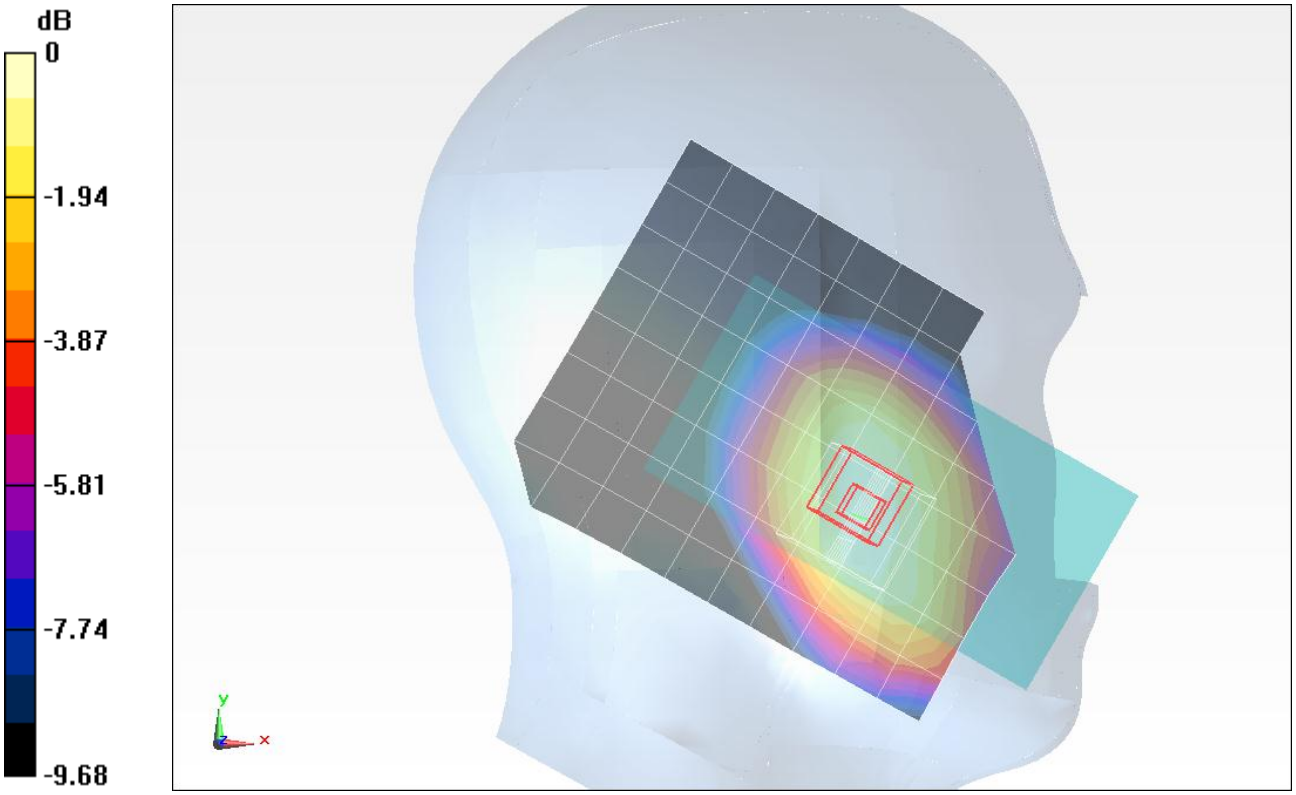
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Touch_QPSK_RB 1/49_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.285 mW/g

Left/Touch_QPSK_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.733 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.3220
SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.197 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.288 mW/g



0 dB = 0.290mW/g = -10.75 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

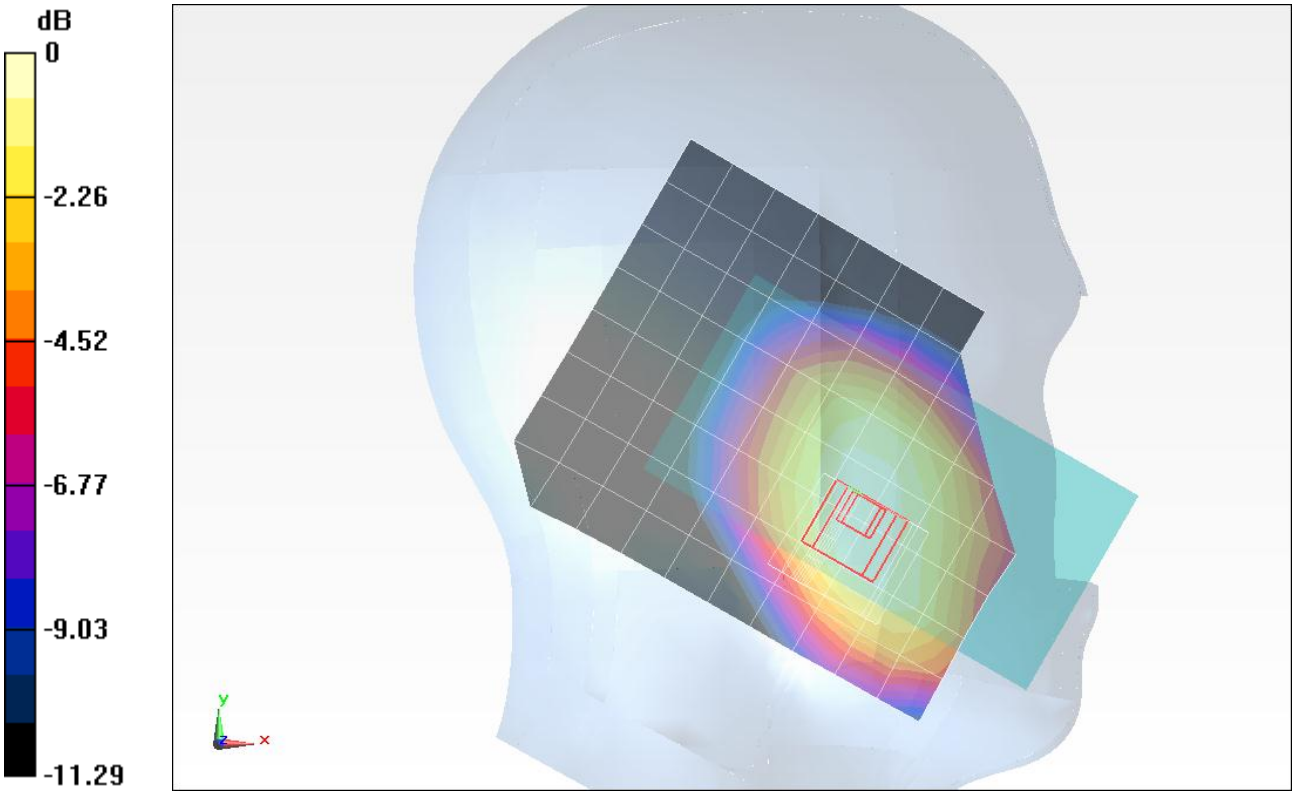
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Touch_16QAM_RB 25/12_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.265 mW/g

Left/Touch_16QAM_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.125 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.3040
SAR(1 g) = 0.239 mW/g; SAR(10 g) = 0.175 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.267 mW/g



0 dB = 0.270mW/g = -11.37 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

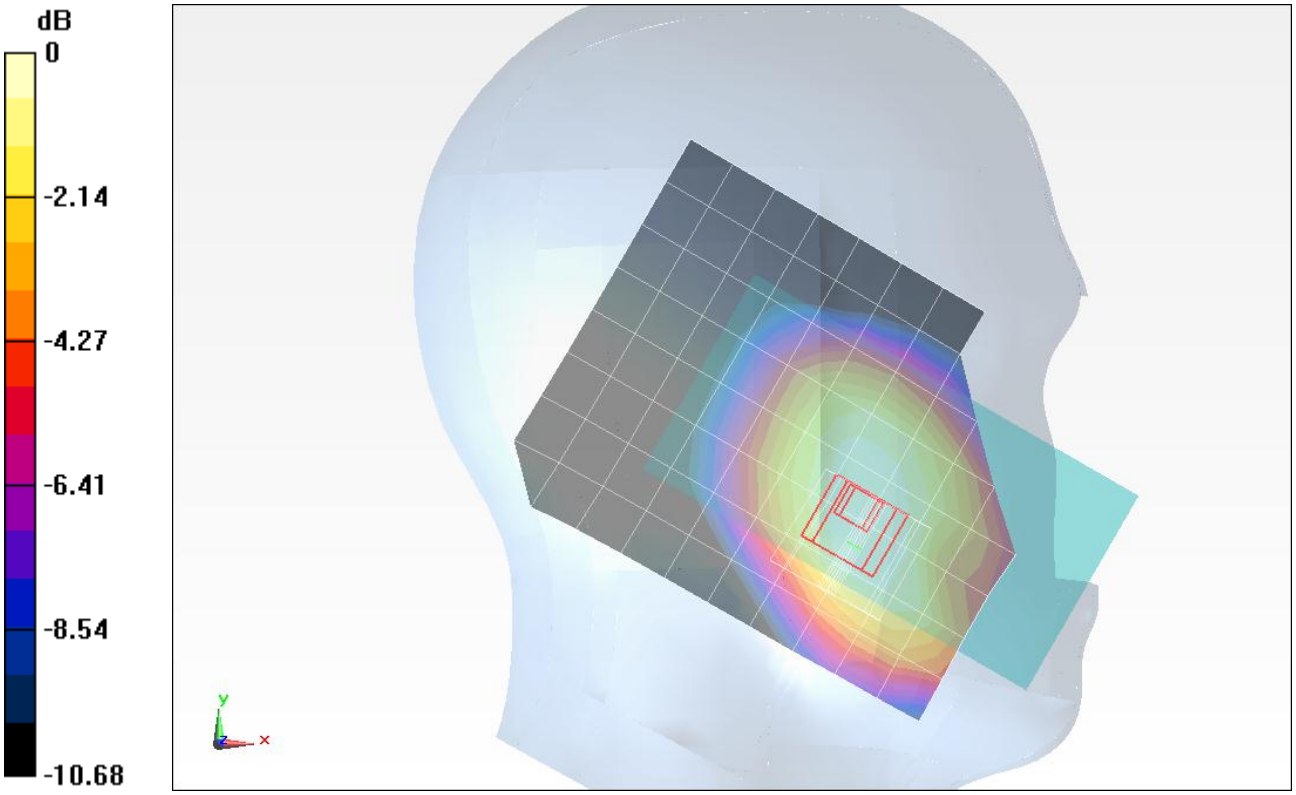
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Touch_16QAM_RB 1/0_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.307 mW/g

Left/Touch_16QAM_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.575 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.3440
SAR(1 g) = 0.267 mW/g; SAR(10 g) = 0.199 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.301 mW/g



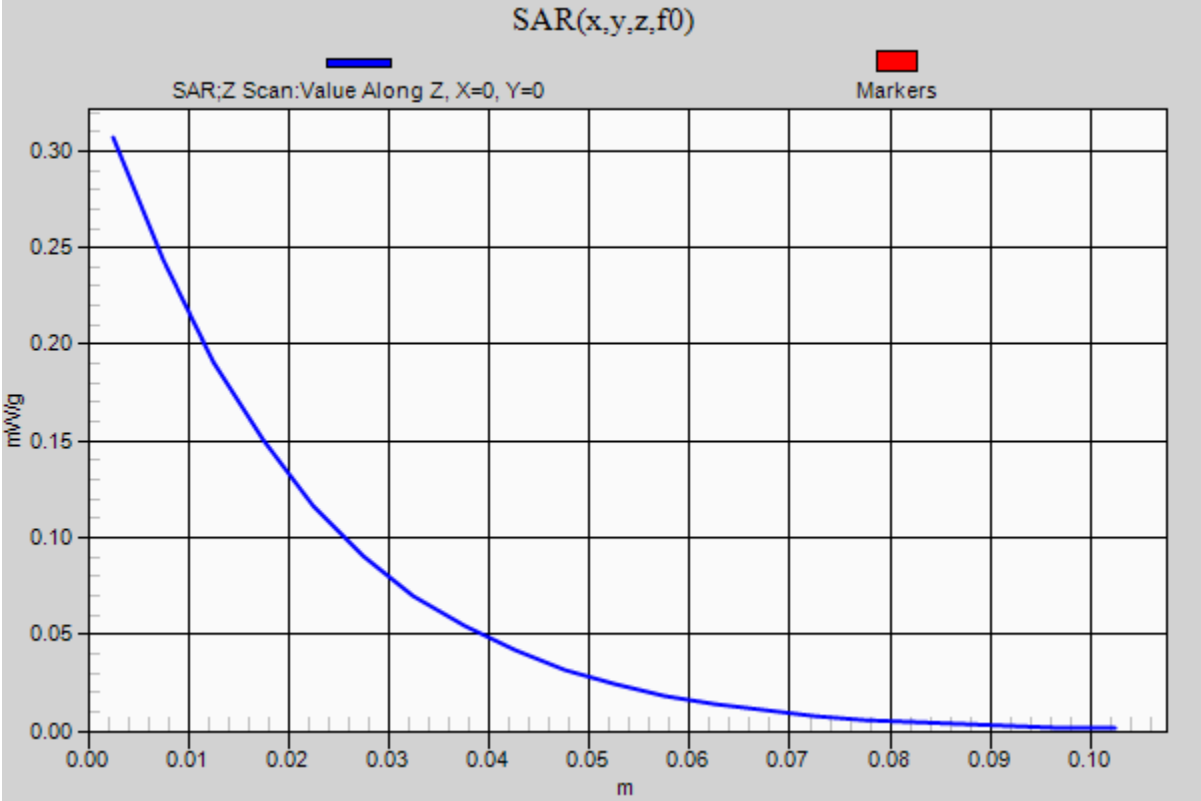
0 dB = 0.300mW/g = -10.46 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

Frequency: 782 MHz; Duty Cycle: 1:1

Left/Touch_16QAM_RB 1/0_Ch 782/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.307 mW/g



Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

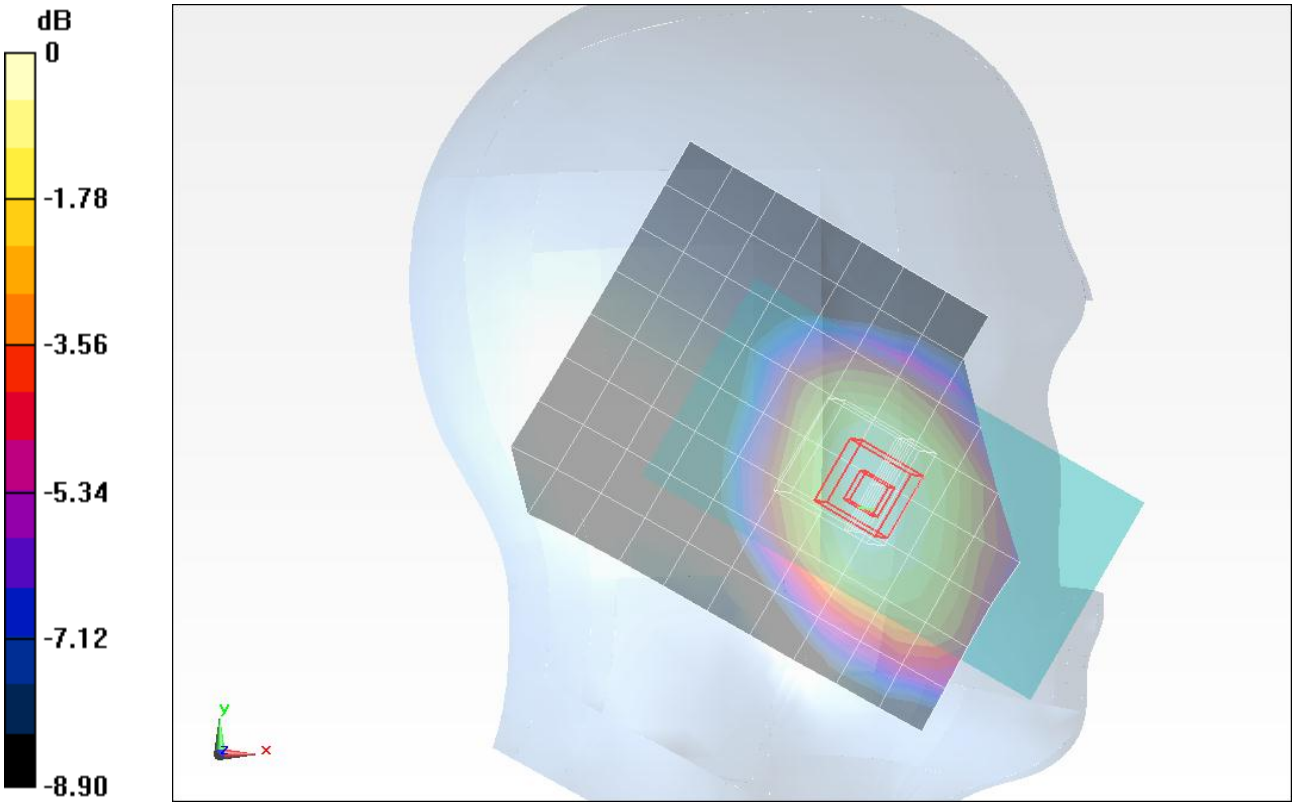
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Touch_16QAM_RB 1/0_Ch 782 w/Wireless charger/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.251 mW/g

Left/Touch_16QAM_RB 1/0_Ch 782 w/Wireless charger /Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.612 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.2870
SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.179 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.257 mW/g



0 dB = 0.260mW/g = -11.70 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

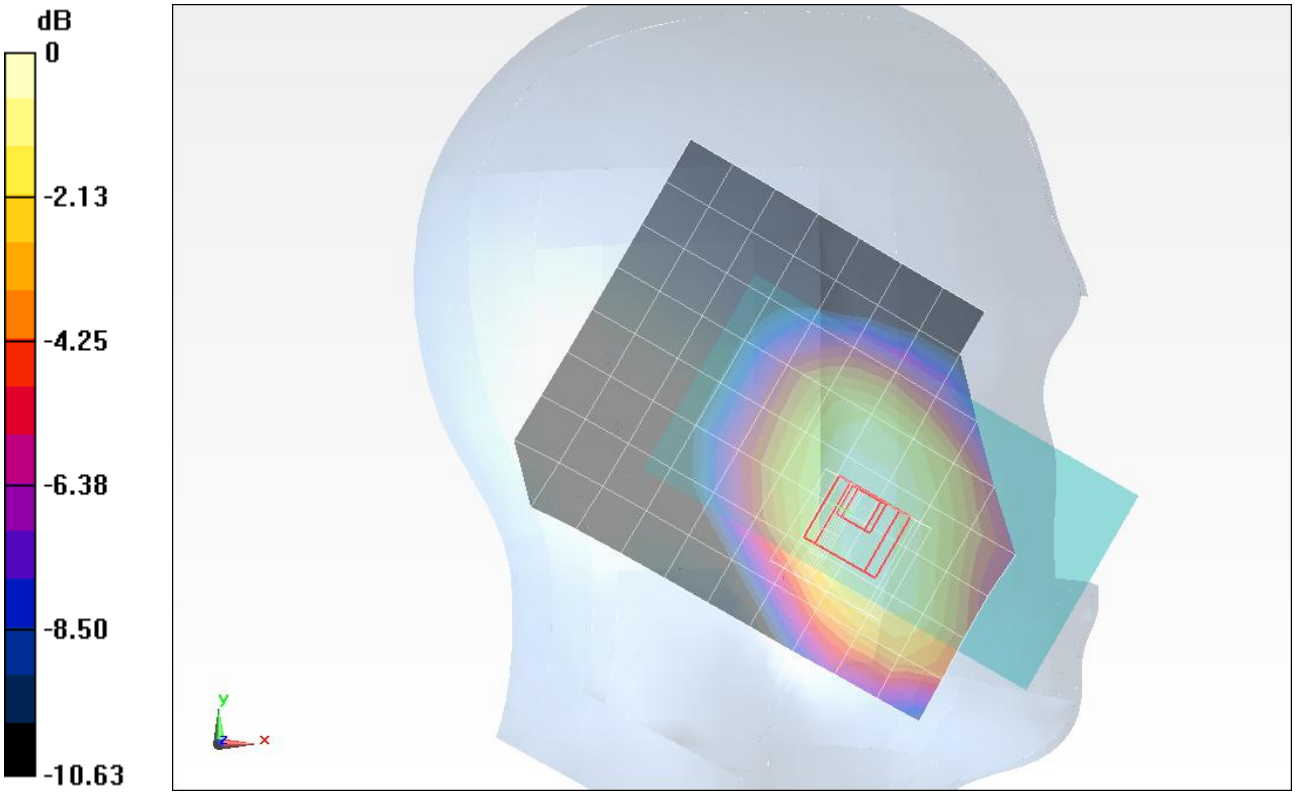
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Touch_16QAM_RB 1/49_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.241 mW/g

Left/Touch_16QAM_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.350 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.2780
SAR(1 g) = 0.220 mW/g; SAR(10 g) = 0.163 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.245 mW/g



0 dB = 0.250mW/g = -12.04 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

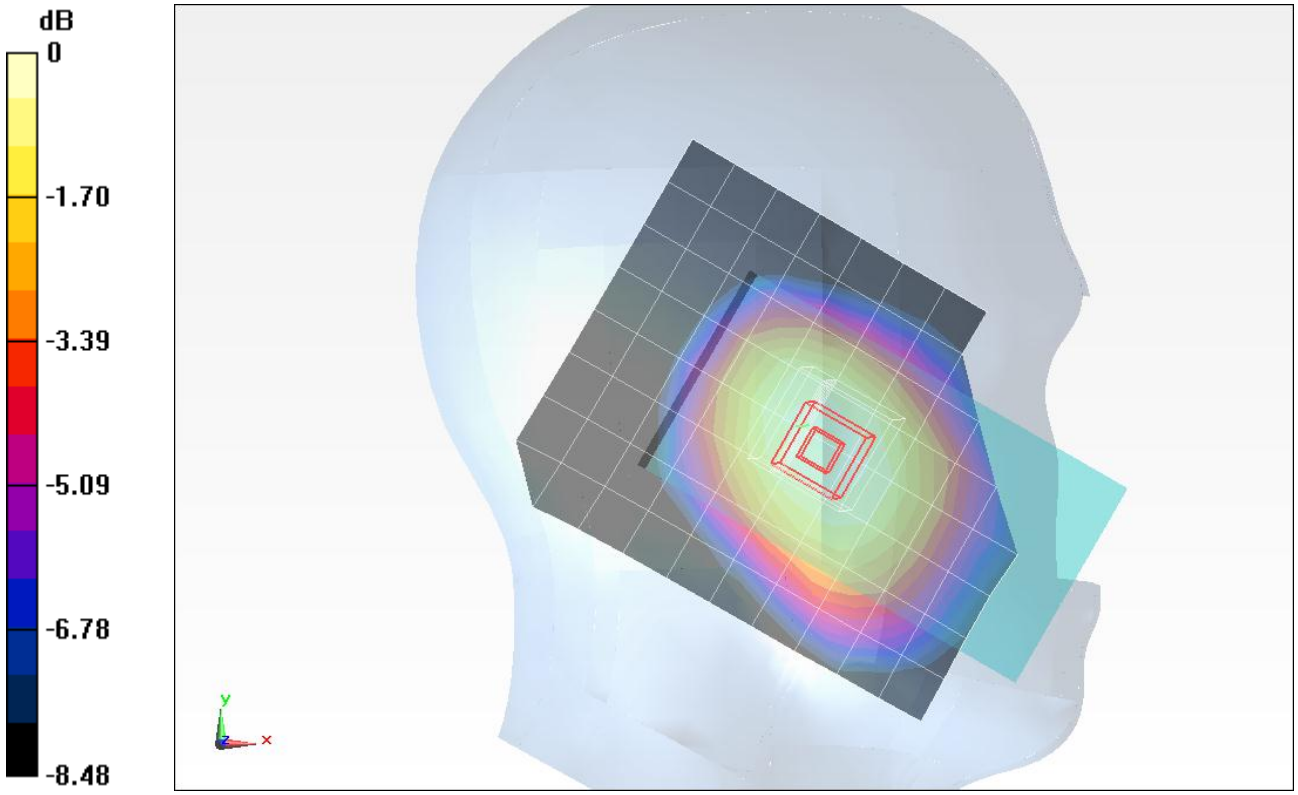
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Tilt_QPSK_RB 25/12_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.169 mW/g

Left/Tilt_QPSK_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.565 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.1900
SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.122 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.170 mW/g



0 dB = 0.170mW/g = -15.39 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

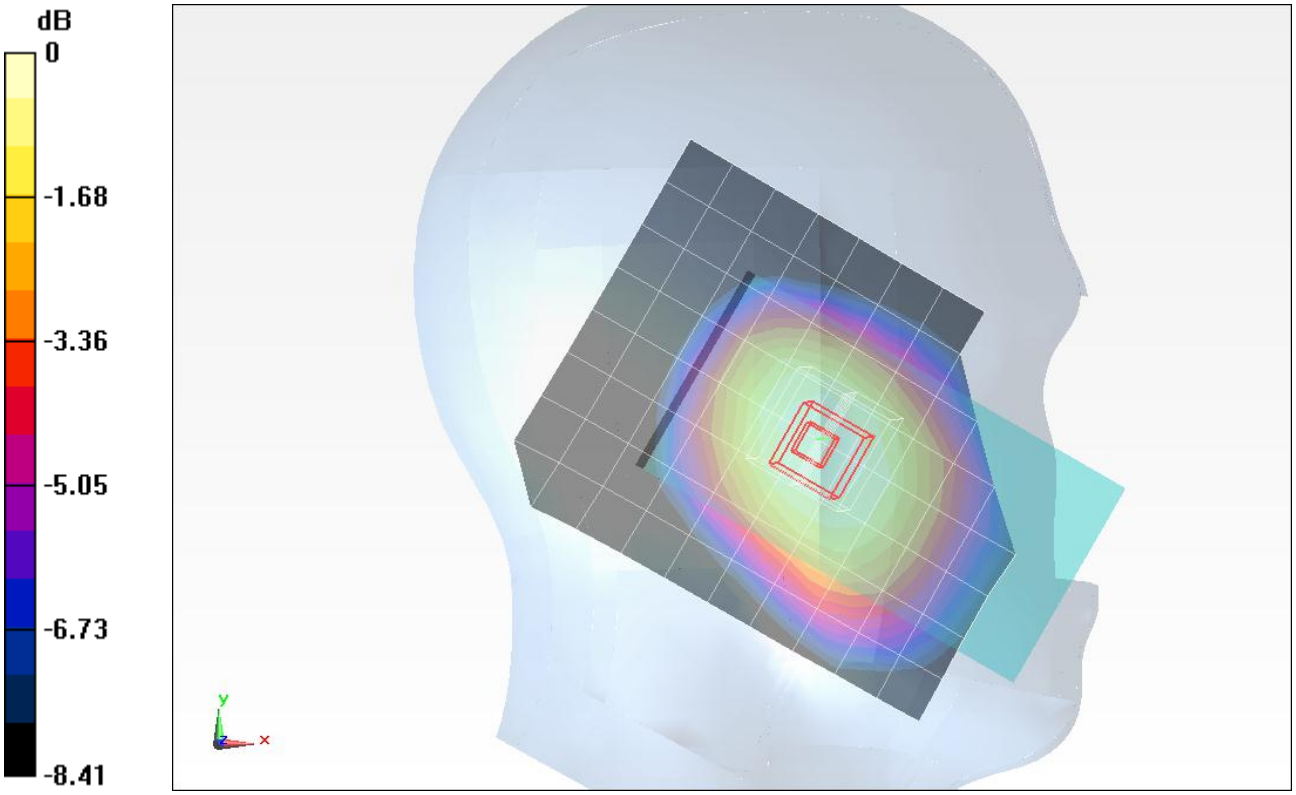
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Tilt_QPSK_RB 1/0_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.203 mW/g

Left/Tilt_QPSK_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.927 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.2250
SAR(1 g) = 0.186 mW/g; SAR(10 g) = 0.145 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.204 mW/g



0 dB = 0.200mW/g = -13.98 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

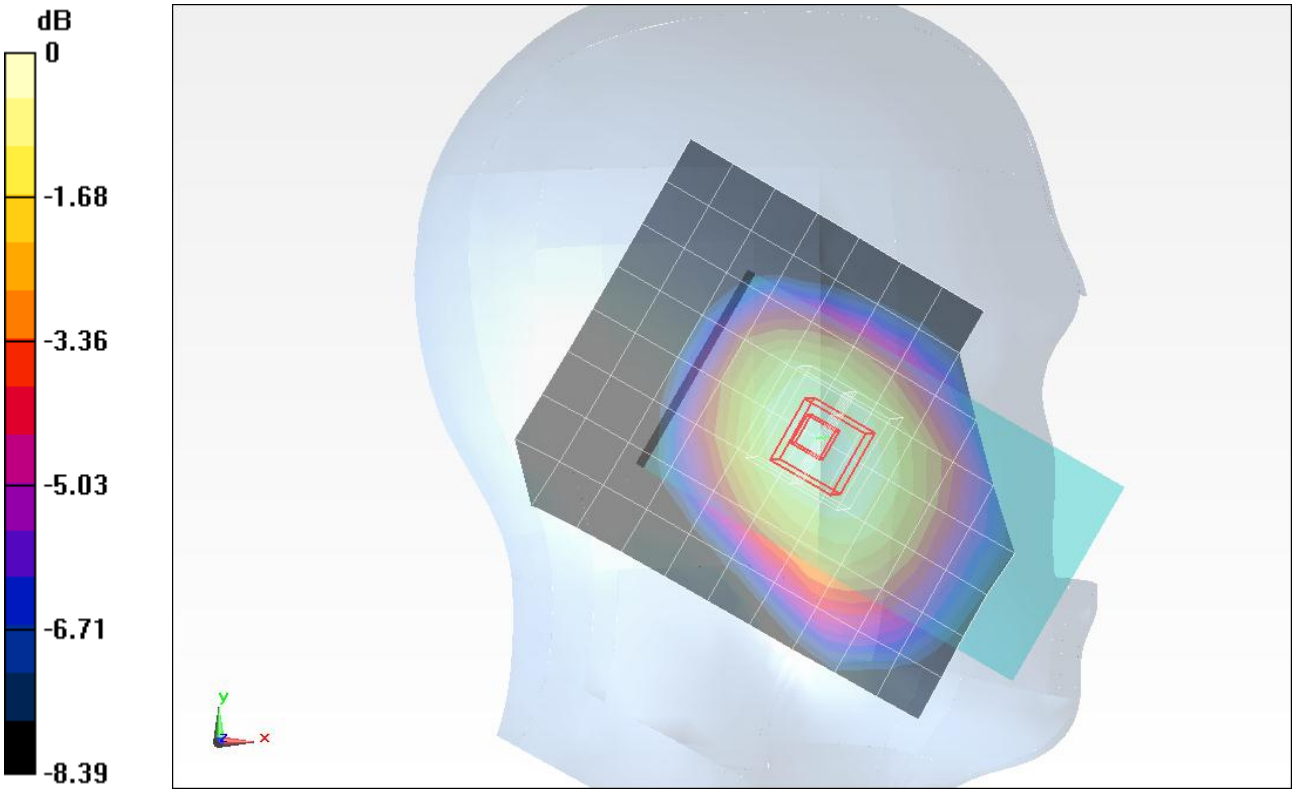
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Tilt_QPSK_RB 1/49_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.155 mW/g

Left/Tilt_QPSK_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.117 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.1740
SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.110 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.157 mW/g



0 dB = 0.160mW/g = -15.92 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

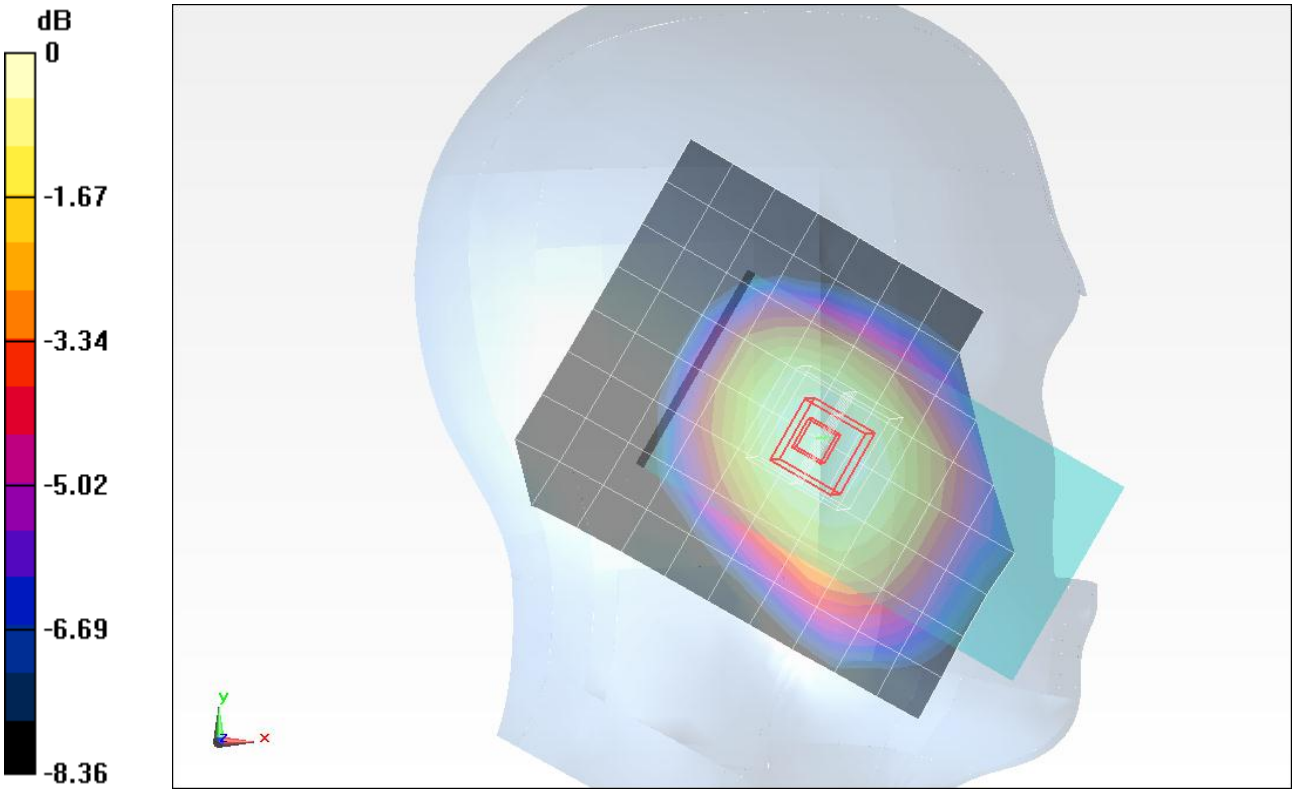
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Tilt_16QAM_RB 25/12_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.144 mW/g

Left/Tilt_16QAM_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.537 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.1590
SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.102 mW/g
Info: Interpolated medium parameters used for SAR evaluation.



0 dB = 0.140mW/g = -17.08 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

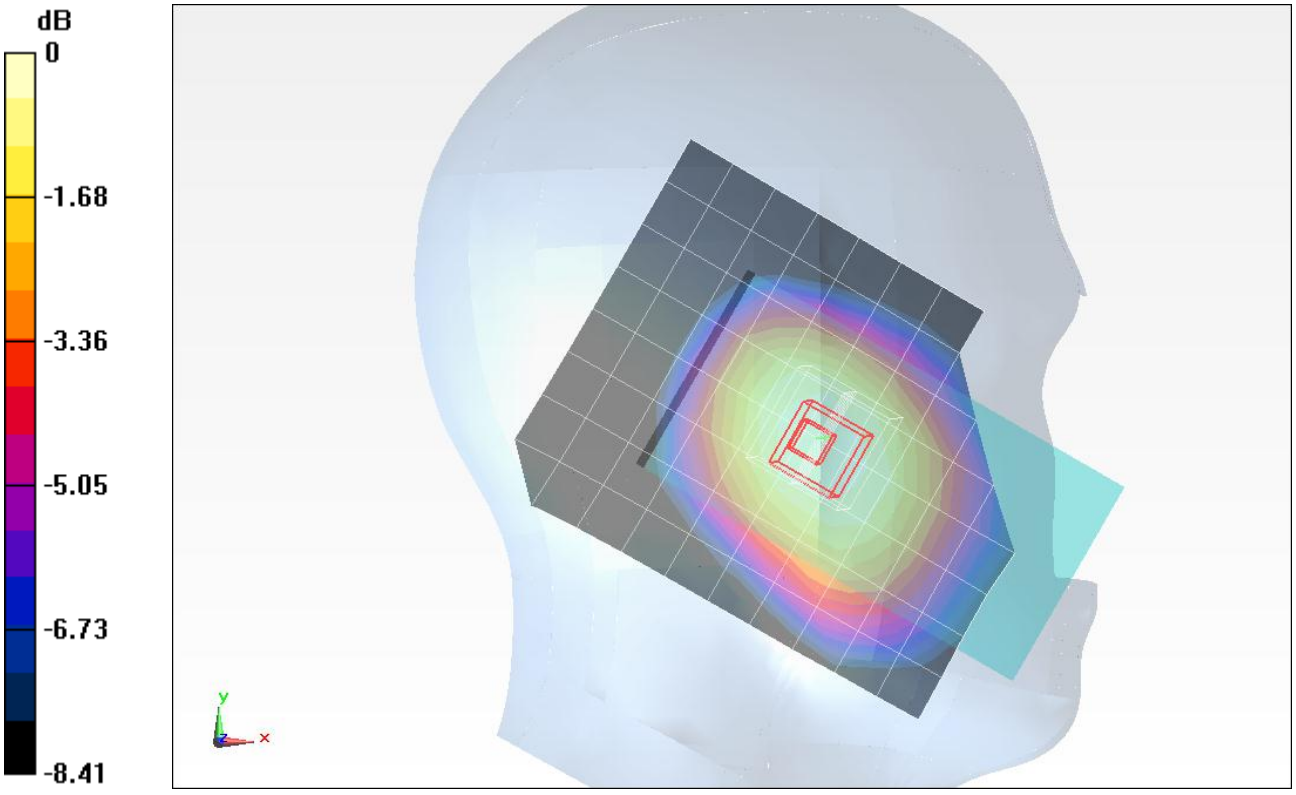
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Tilt_16QAM_RB 1/0_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.172 mW/g

Left/Tilt_16QAM_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.711 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.1930
SAR(1 g) = 0.157 mW/g; SAR(10 g) = 0.123 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.173 mW/g



0 dB = 0.170mW/g = -15.39 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

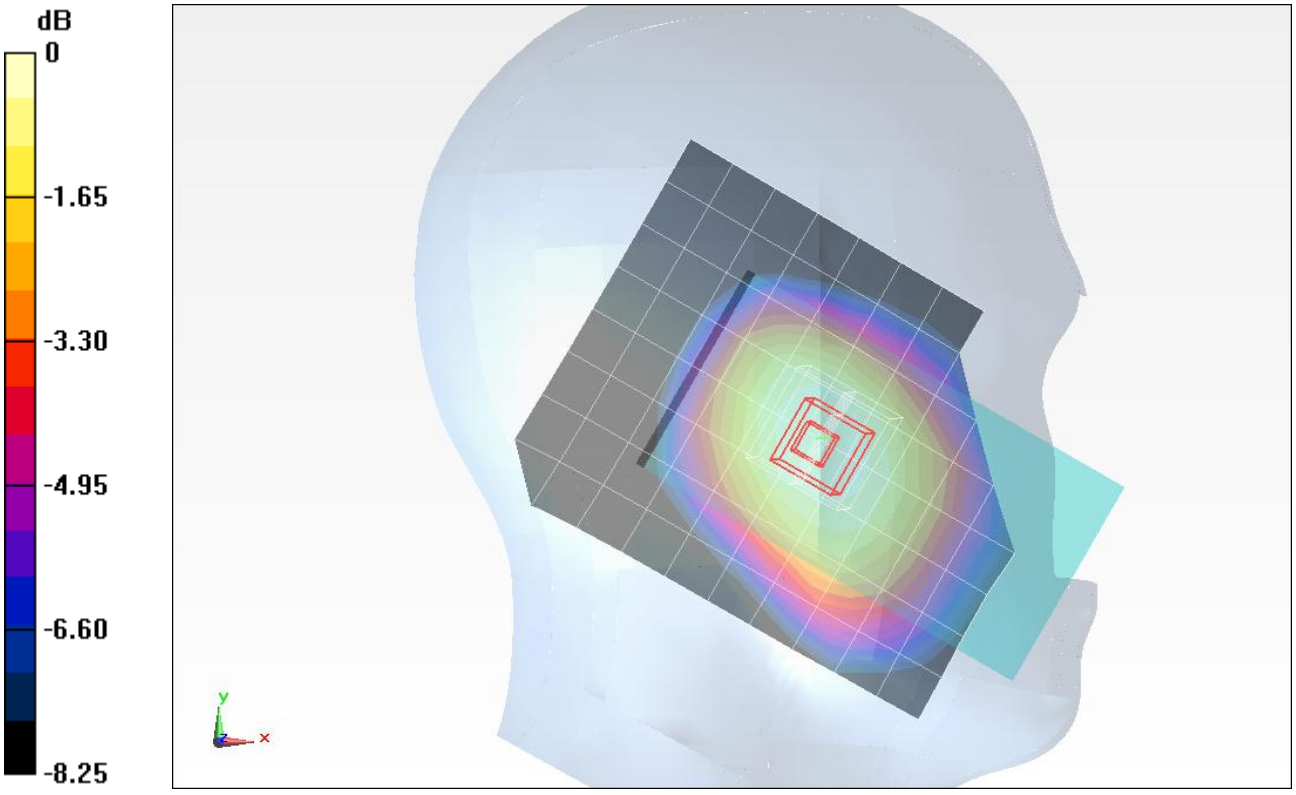
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Left/Tilt_16QAM_RB 1/49_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.138 mW/g

Left/Tilt_16QAM_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.170 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.1460
SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.094 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.133 mW/g



0 dB = 0.130mW/g = -17.72 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

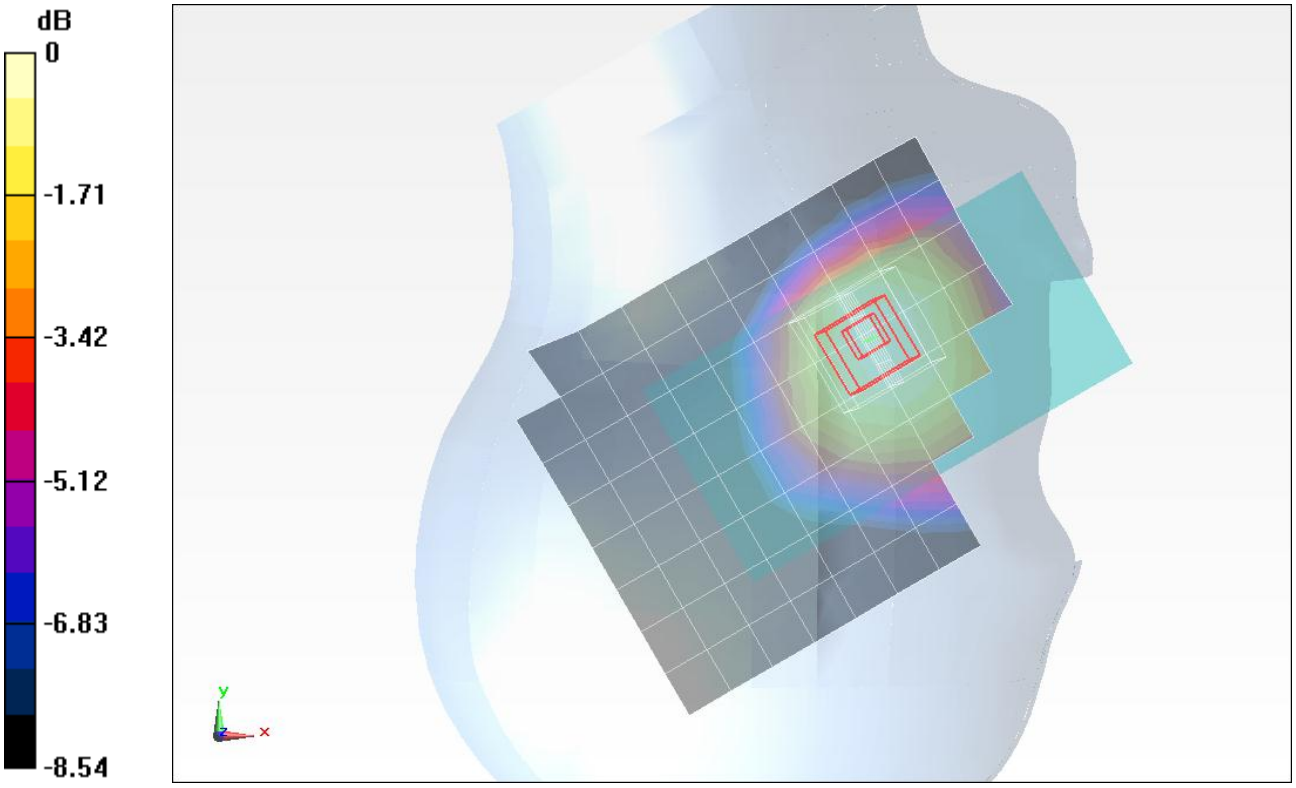
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Right/Touch_QPSK_RB 25/12_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.227 mW/g

Right/Touch_QPSK_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.959 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.2570
SAR(1 g) = 0.208 mW/g; SAR(10 g) = 0.160 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.229 mW/g



0 dB = 0.230mW/g = -12.77 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

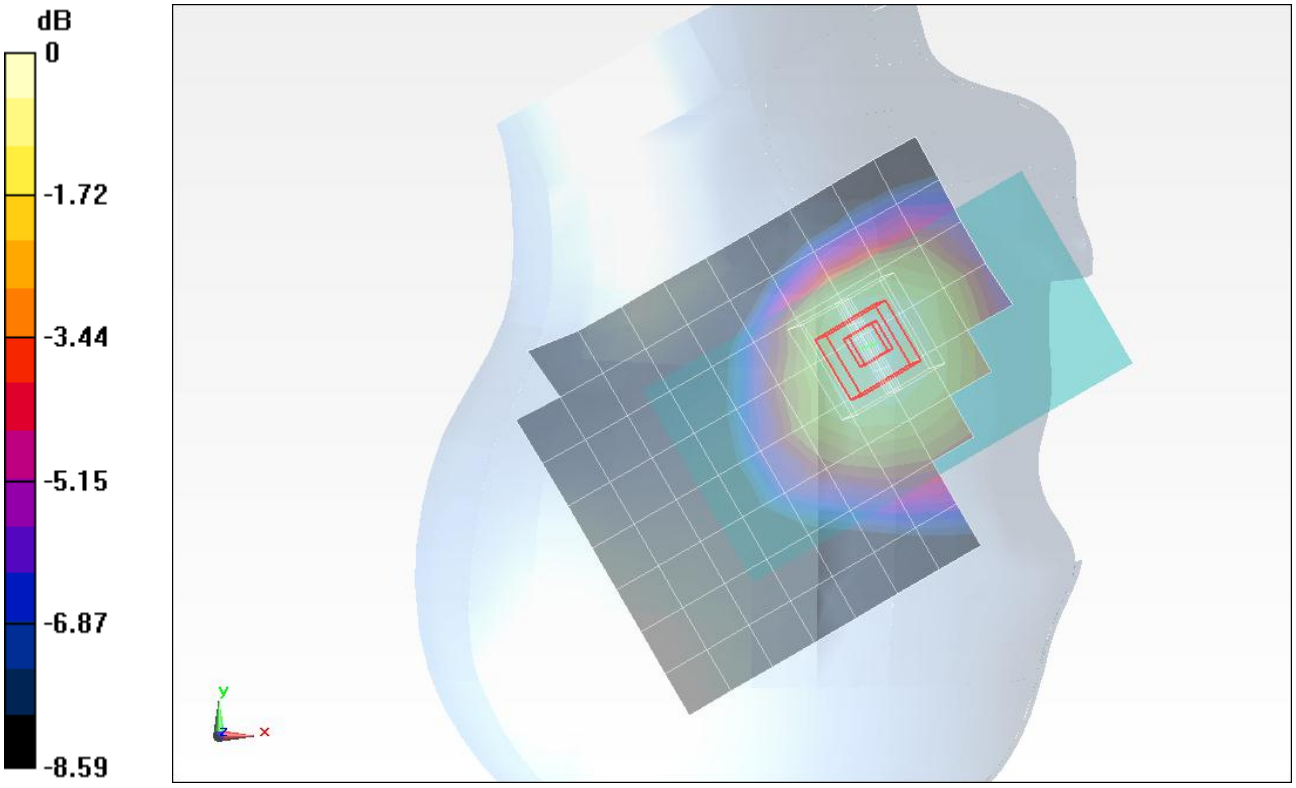
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Right/Touch_QPSK_RB 1/0_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.262 mW/g

Right/Touch_QPSK_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.850 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.2940
SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.185 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.266 mW/g



0 dB = 0.270mW/g = -11.37 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

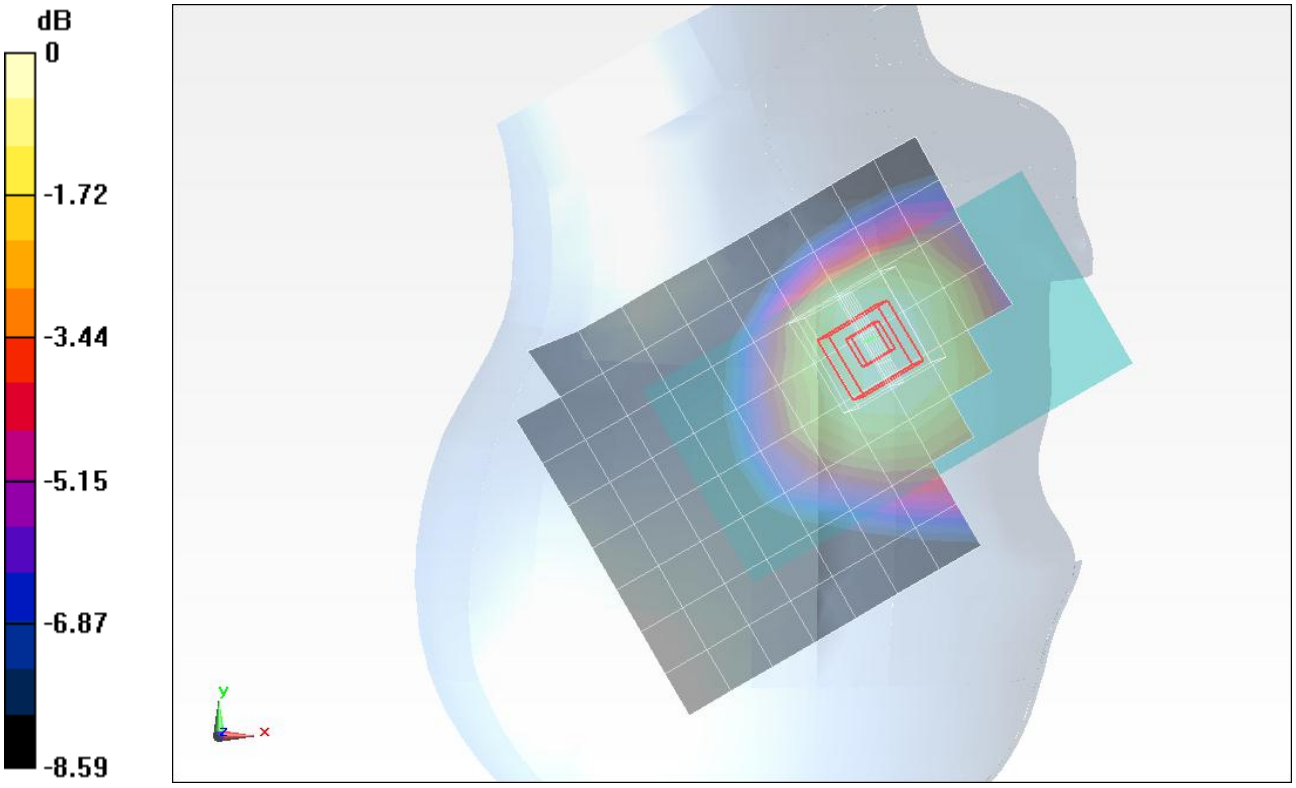
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Right/Touch_QPSK_RB 1/49_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.211 mW/g

Right/Touch_QPSK_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.256 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.2370
SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.150 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.214 mW/g



0 dB = 0.210mW/g = -13.56 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

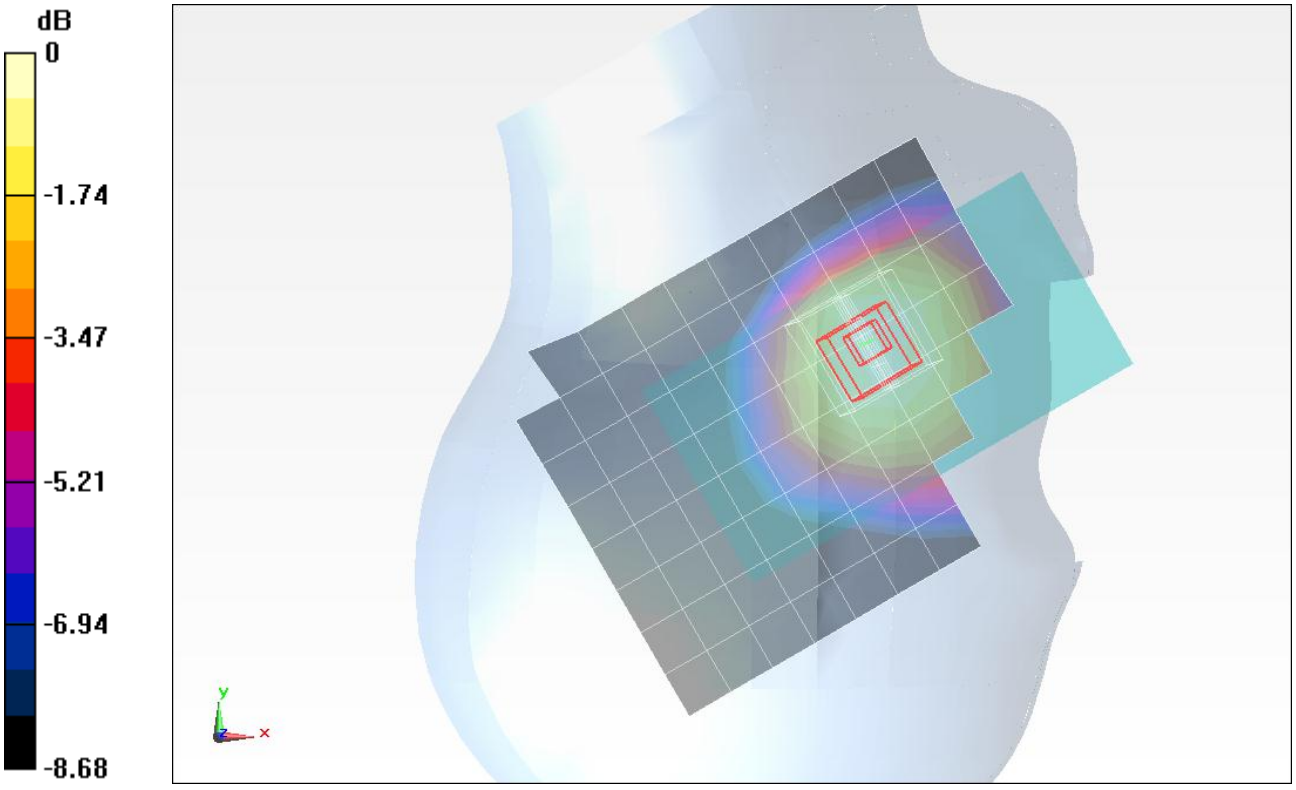
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Right/Touch_16QAM_RB 25/12_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.176 mW/g

Right/Touch_16QAM_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.851 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.1970
SAR(1 g) = 0.160 mW/g; SAR(10 g) = 0.123 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.177 mW/g



0 dB = 0.180mW/g = -14.89 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

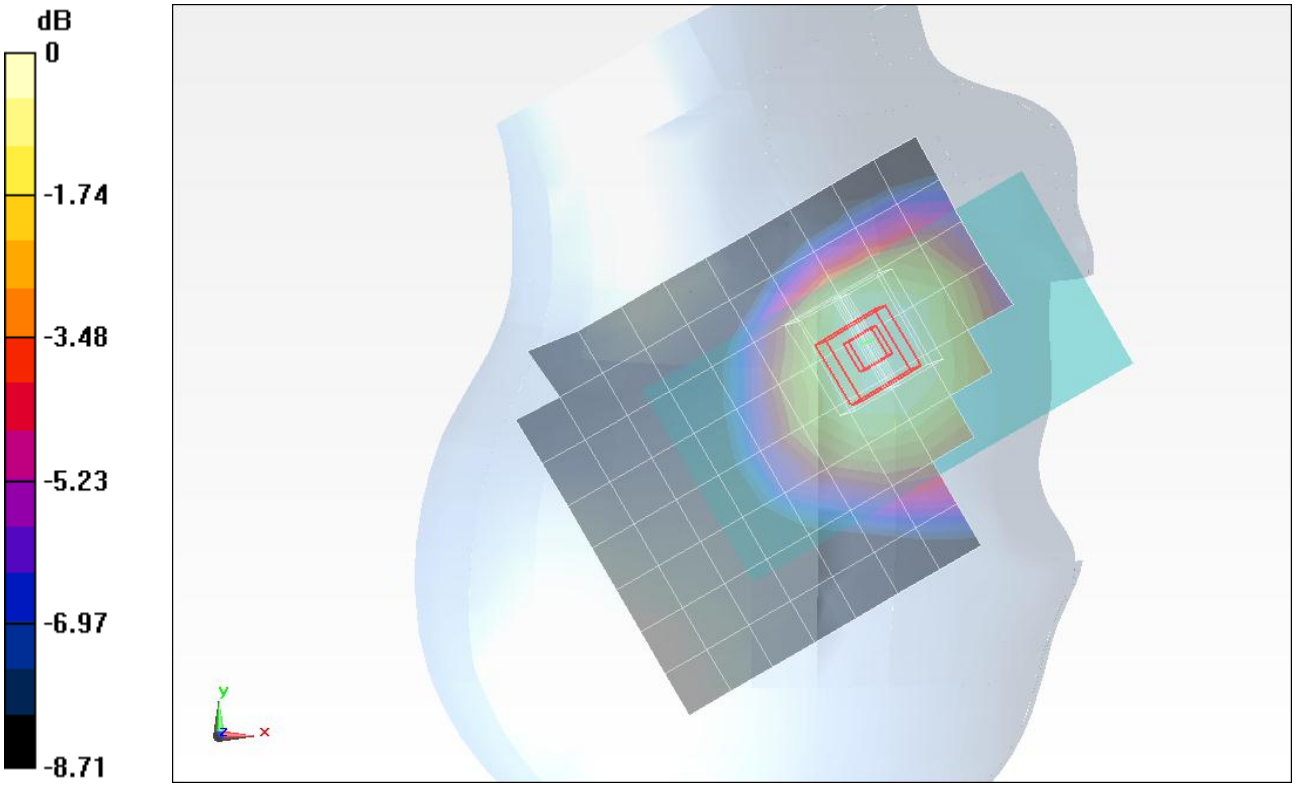
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Right/Touch_16QAM_RB 1/0_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.235 mW/g

Right/Touch_16QAM_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.910 V/m; Power Drift = -0.0047 dB
Peak SAR (extrapolated) = 0.2550
SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.161 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.231 mW/g



0 dB = 0.230mW/g = -12.77 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

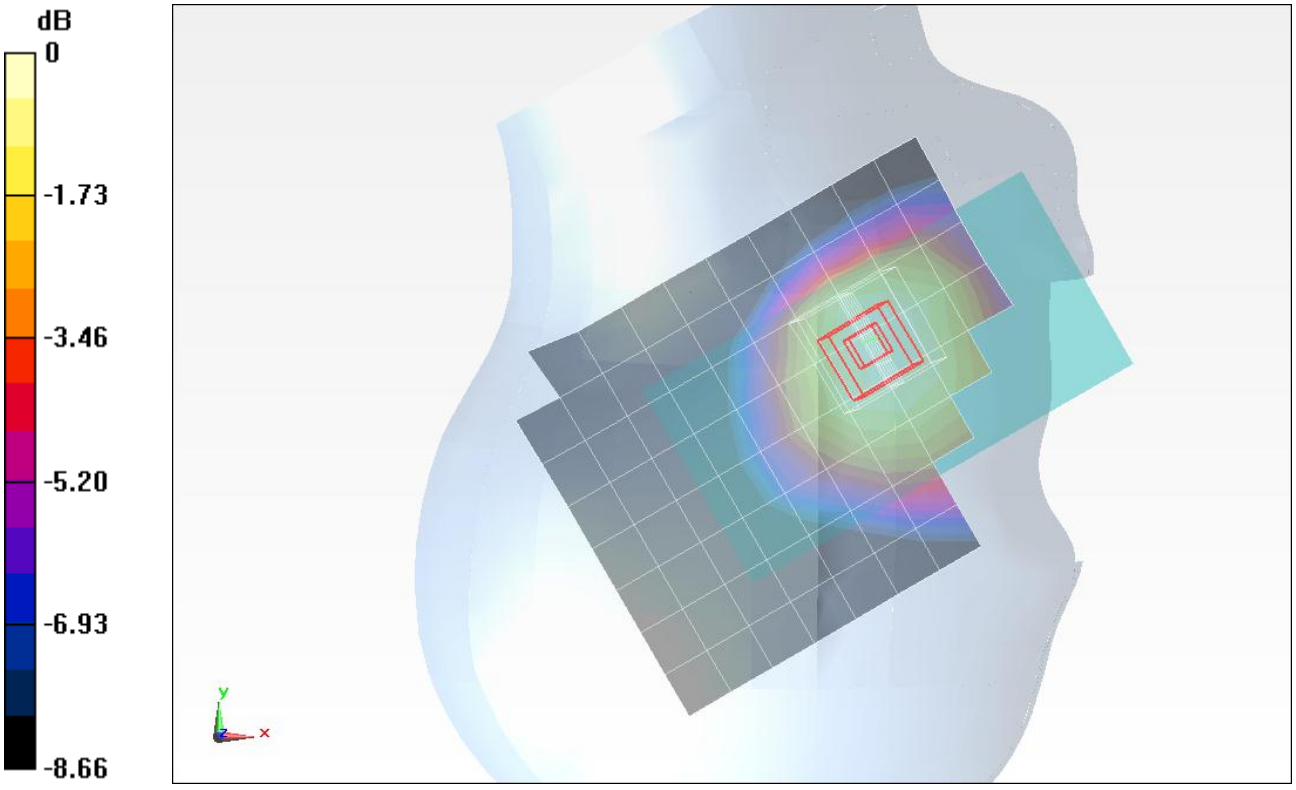
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Right/Touch_16QAM_RB 1/49_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.188 mW/g

Right/Touch_16QAM_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.366 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.2060
SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.131 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.186 mW/g



0 dB = 0.190mW/g = -14.42 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

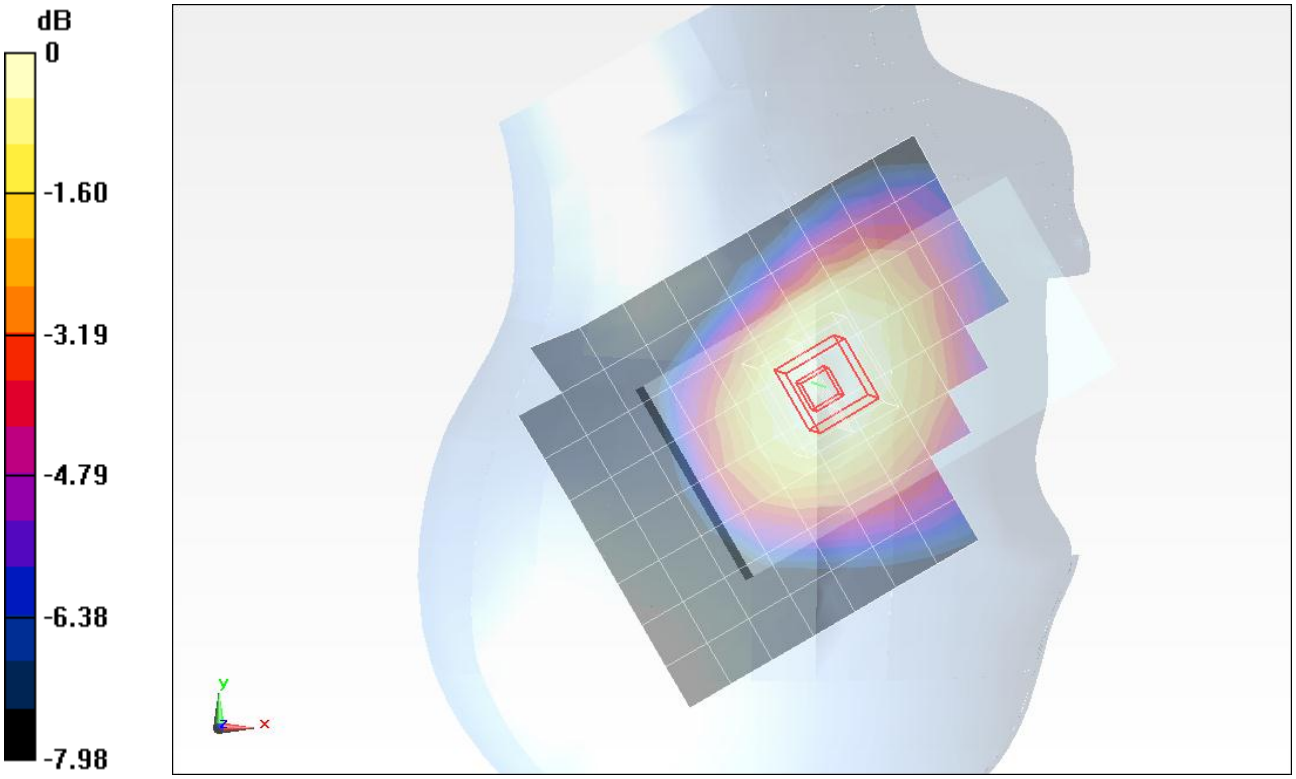
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Right/Tilt_QPSK_RB 25/12_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.104 mW/g

Right/Tilt_QPSK_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.754 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.1180
SAR(1 g) = 0.100 mW/g; SAR(10 g) = 0.079 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.109 mW/g



0 dB = 0.110mW/g = -19.17 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

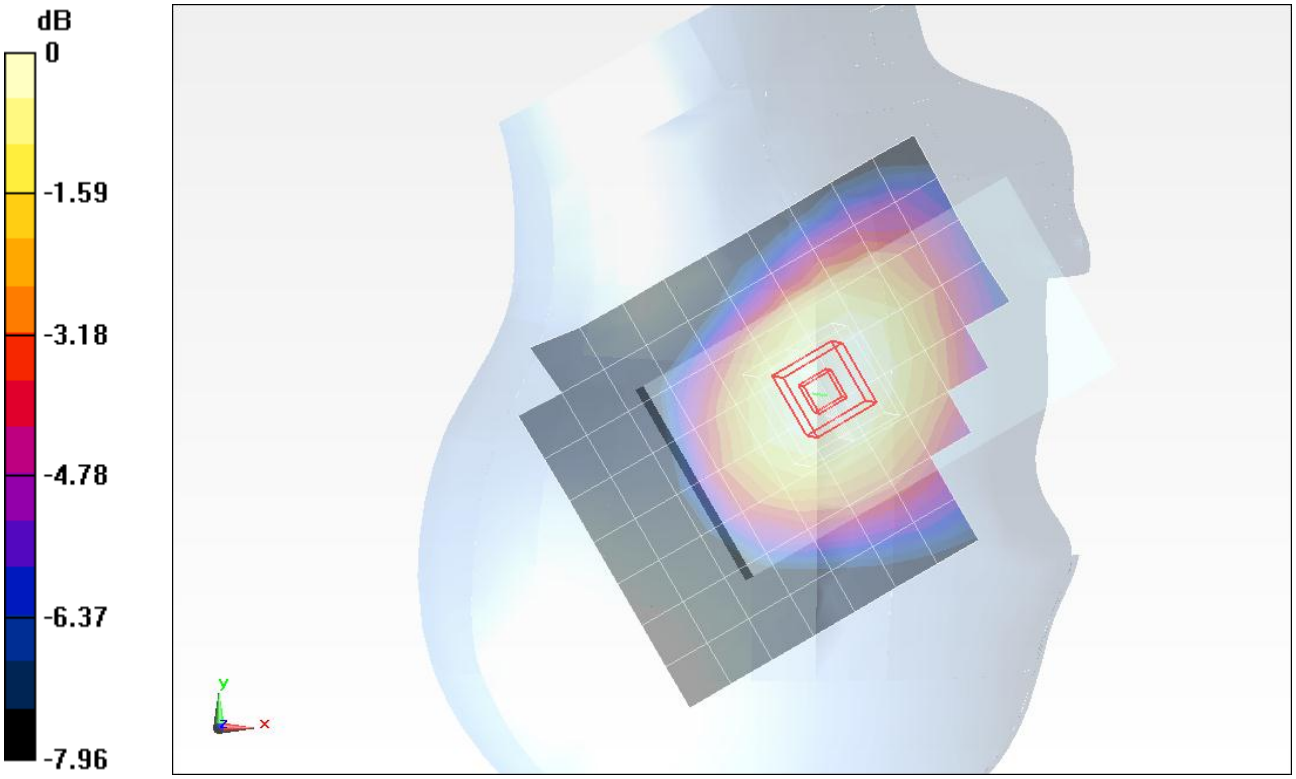
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Right/Tilt_QPSK_RB 1/0_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.128 mW/g

Right/Tilt_QPSK_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.618 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.1400
SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.093 mW/g
Info: Interpolated medium parameters used for SAR evaluation.



0 dB = 0.130mW/g = -17.72 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

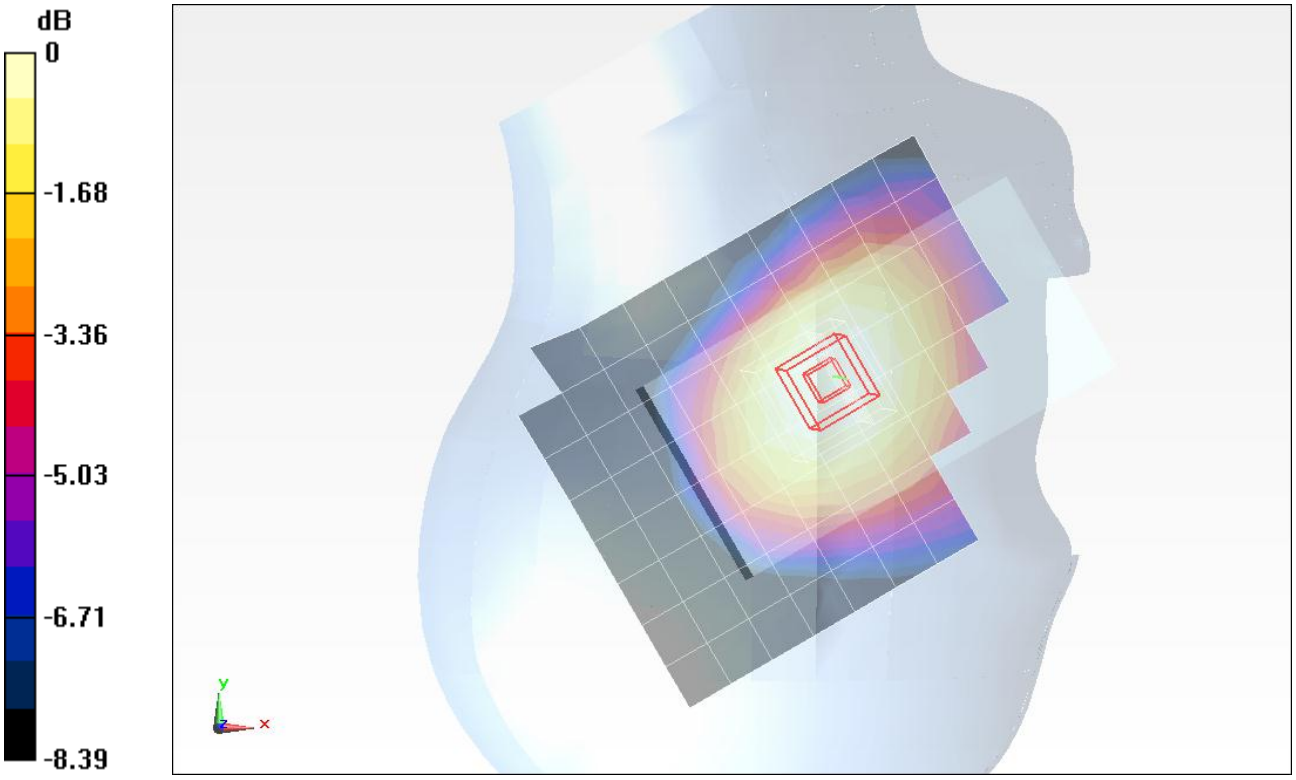
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Right/Tilt_QPSK_RB 1/49_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.101 mW/g

Right/Tilt_QPSK_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.286 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.1090
SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.072 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.100 mW/g



0 dB = 0.100mW/g = -20.00 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

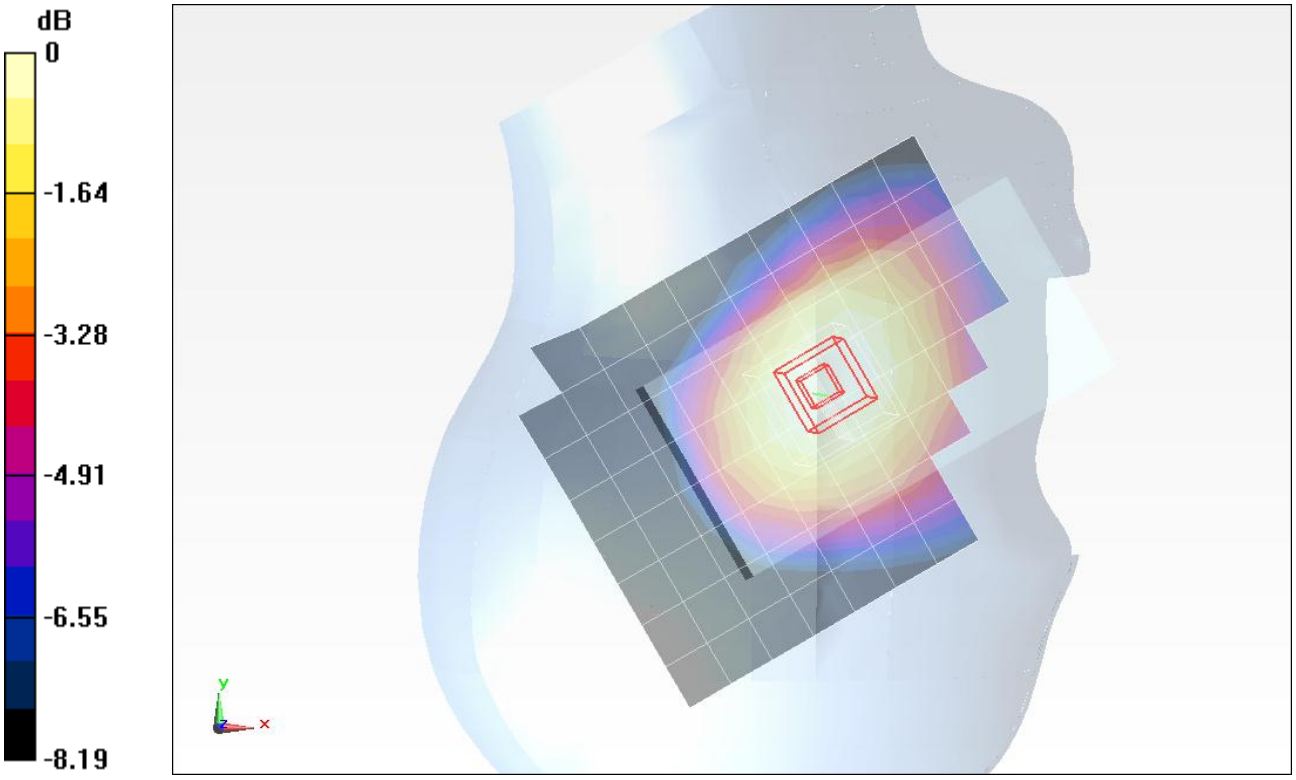
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Right/Tilt_16QAM_RB 25/12_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.088 mW/g

Right/Tilt_16QAM_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.721 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.0980
SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.065 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.090 mW/g



0 dB = 0.090mW/g = -20.92 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

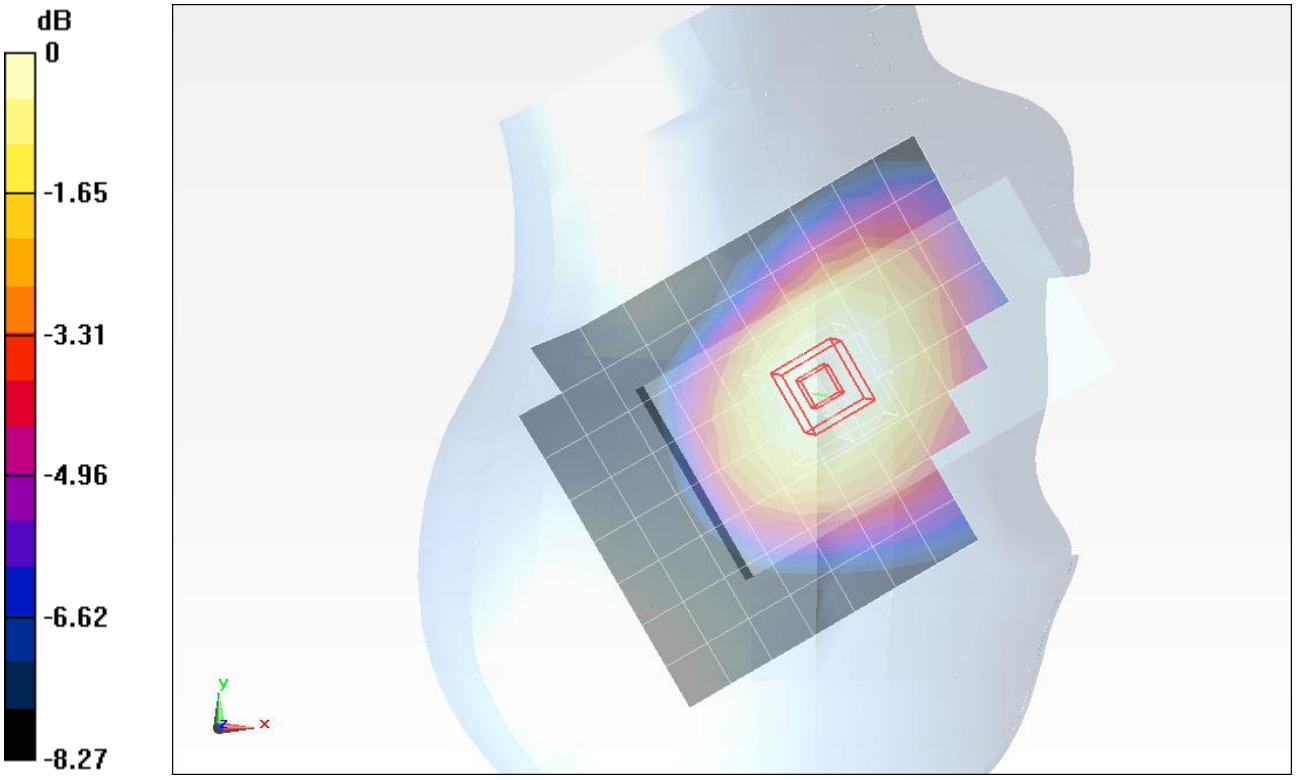
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Right/Tilt_16QAM_RB 1/0_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.109 mW/g

Right/Tilt_16QAM_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.880 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.1220
SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.080 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.111 mW/g



0 dB = 0.110mW/g = -19.17 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/27/2012

LTE Band 13

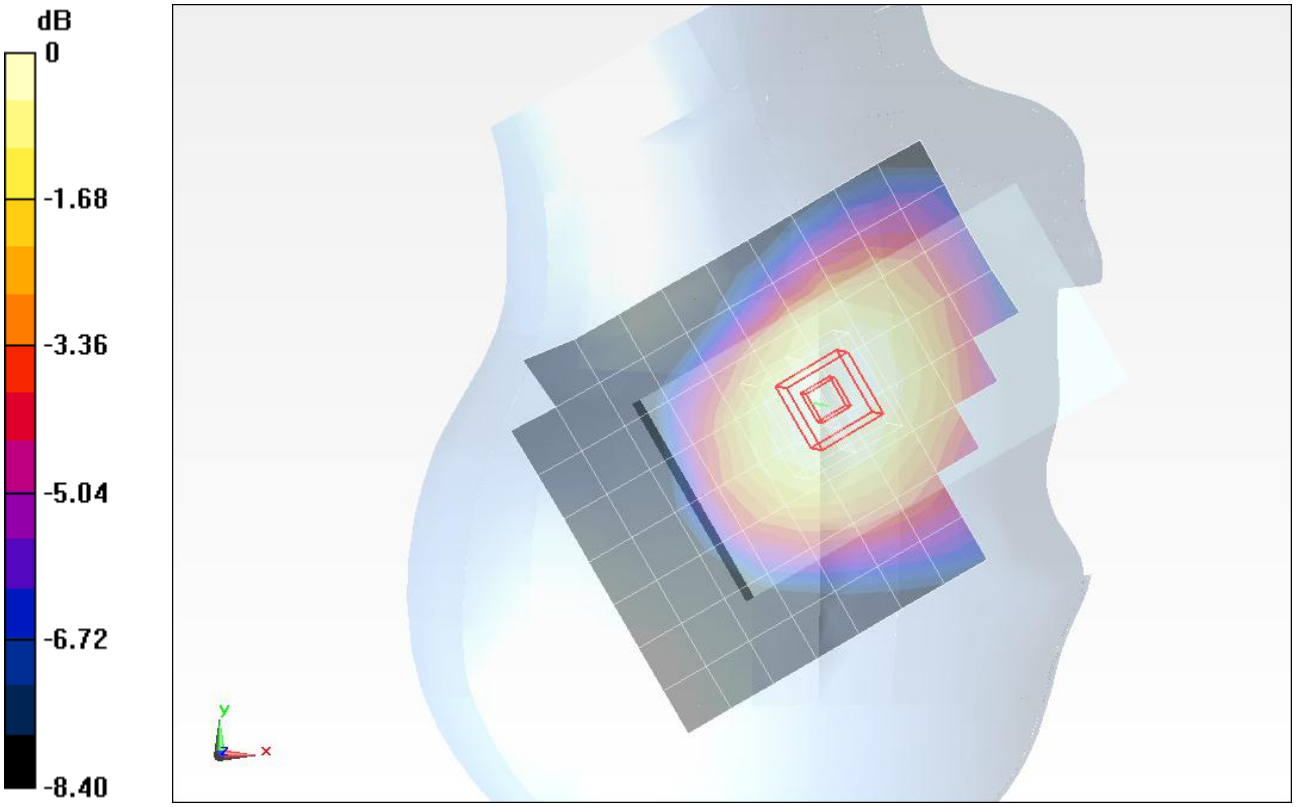
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.932 mho/m; ε_r = 42.196; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(9.01, 9.01, 9.01); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: SAM v5.0 (A); Type: QD000P40CC; Serial: 1602

Right/Tilt_16QAM_RB 1/49_Ch 782/Area Scan (9x11x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.086 mW/g

Right/Tilt_16QAM_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.628 V/m; Power Drift = 0.0026 dB
Peak SAR (extrapolated) = 0.0960
SAR(1 g) = 0.080 mW/g; SAR(10 g) = 0.063 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.088 mW/g



0 dB = 0.090mW/g = -20.92 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

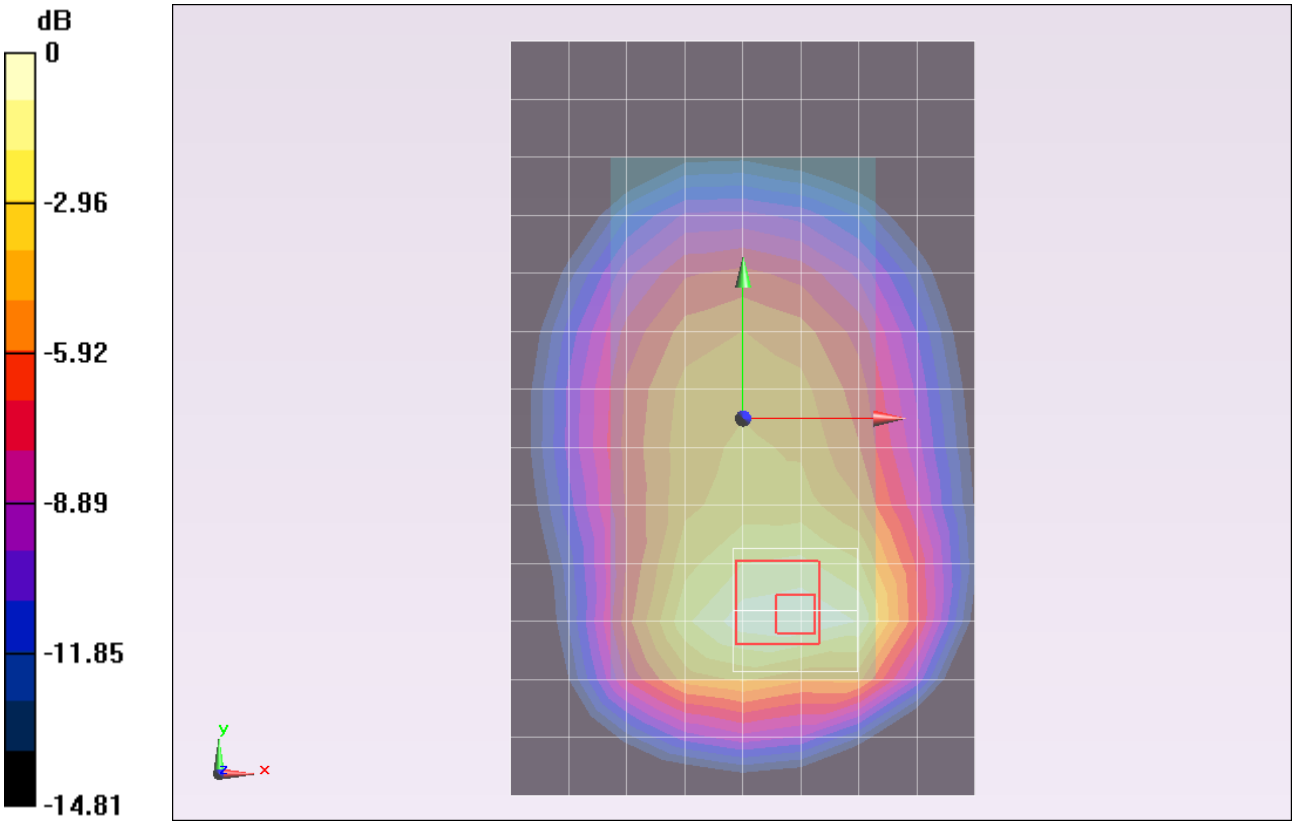
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118

Rear/QPSK_10mm Separation_RB 25/12_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.598 mW/g

Rear/QPSK_10mm Separation_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.077 V/m; Power Drift = 0.0061 dB
Peak SAR (extrapolated) = 0.7910
SAR(1 g) = 0.471 mW/g; SAR(10 g) = 0.299 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.585 mW/g



0 dB = 0.590mW/g = -4.58 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

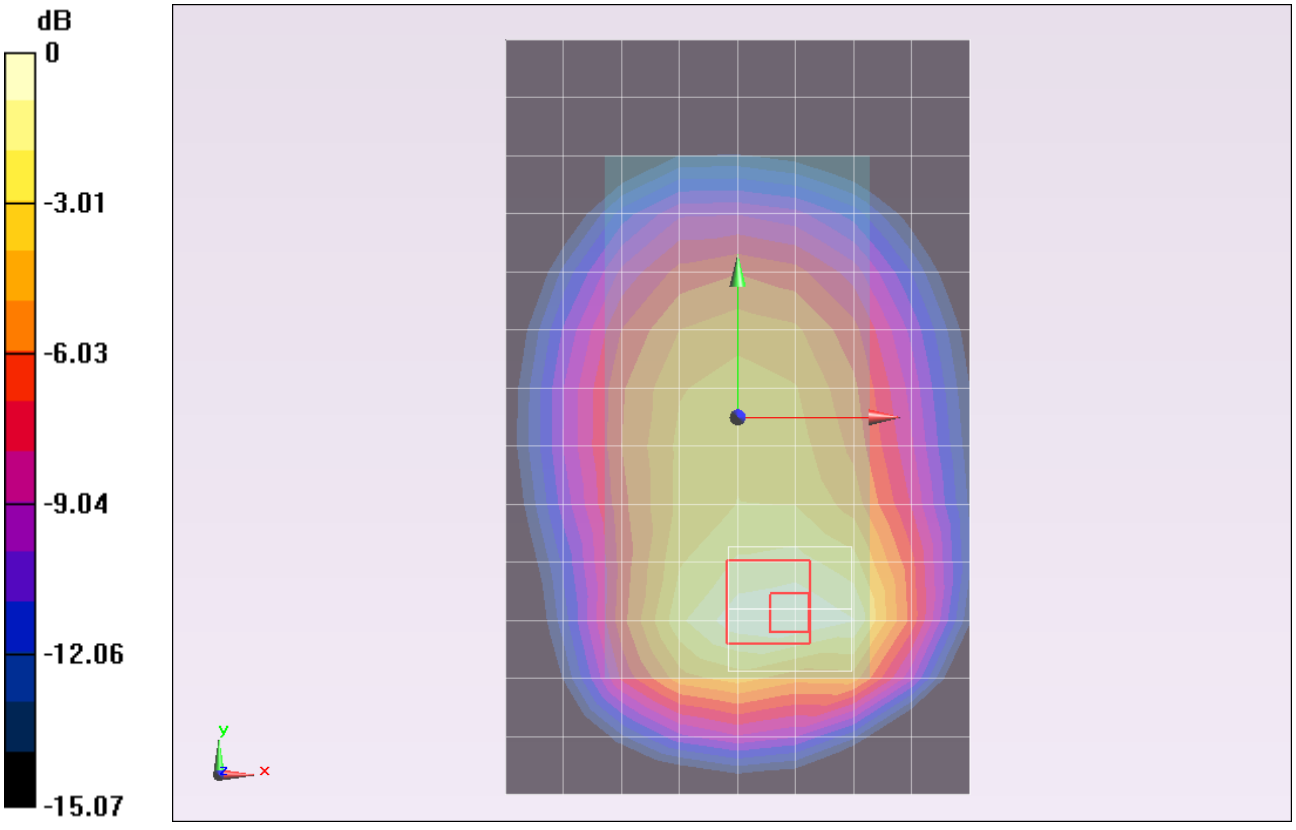
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Rear/QPSK_10mm Separation_RB 1/0_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.701 mW/g

Rear/QPSK_10mm Separation_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.941 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.9190
SAR(1 g) = 0.548 mW/g; SAR(10 g) = 0.352 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.679 mW/g



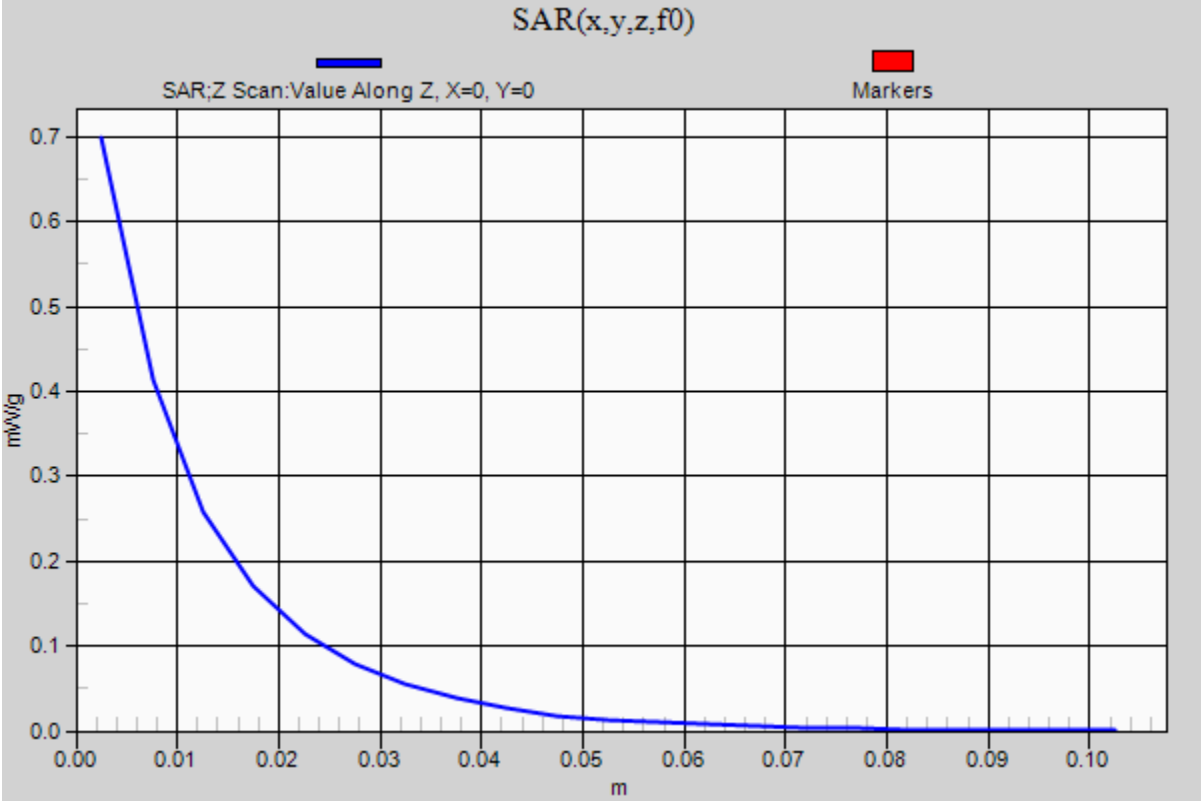
0 dB = 0.680mW/g = -3.35 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

Frequency: 782 MHz; Duty Cycle: 1:1

Rear/QPSK_10mm Separation_RB 1/0_Ch 782/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.699 mW/g



LTE Band 13

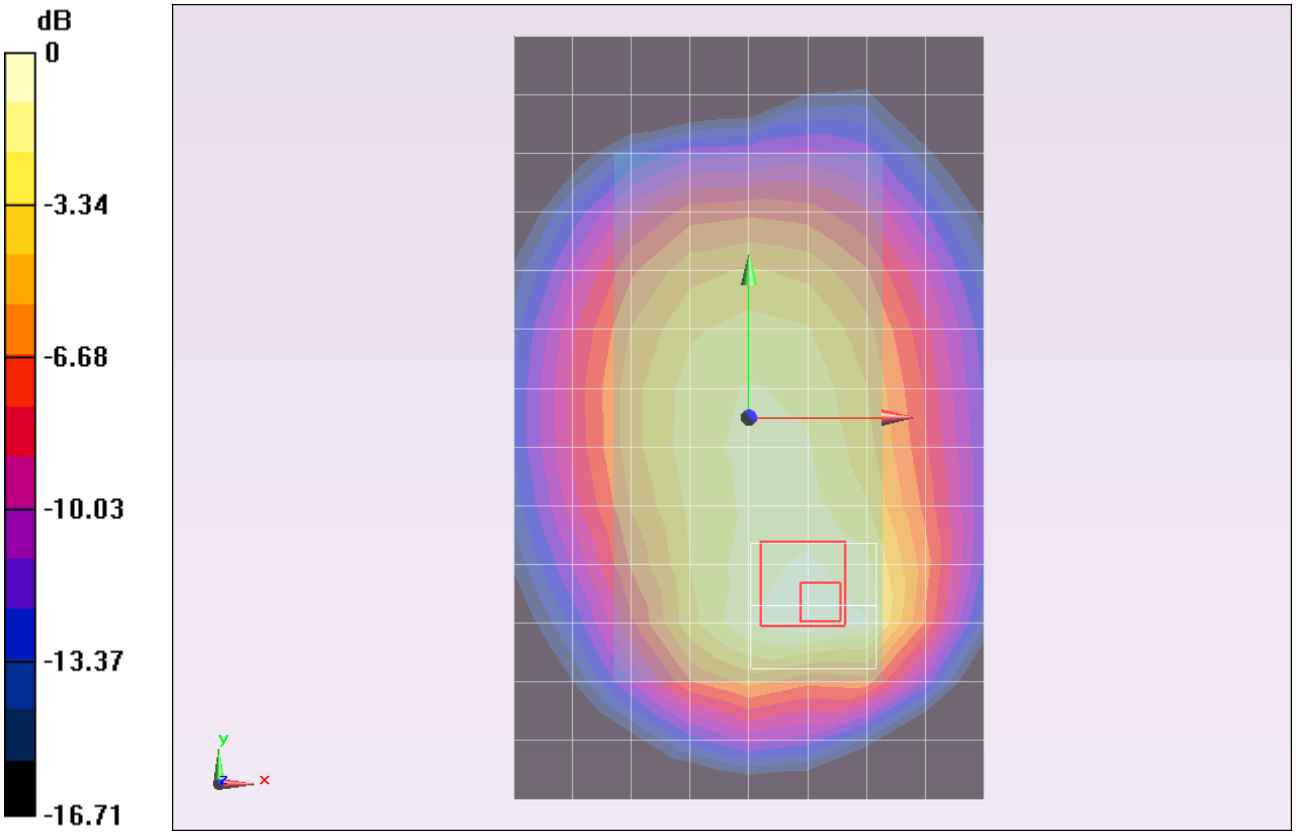
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Rear/QPSK_10mm Separation W/Headset_RB 1/0_Ch 782/Area Scan (9x14x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.599 mW/g

Rear/QPSK_10mm Separation W/Headset_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.970 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.8470
SAR(1 g) = 0.501 mW/g; SAR(10 g) = 0.323 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.627 mW/g



0 dB = 0.630mW/g = -4.01 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/29/2012

LTE Band 13

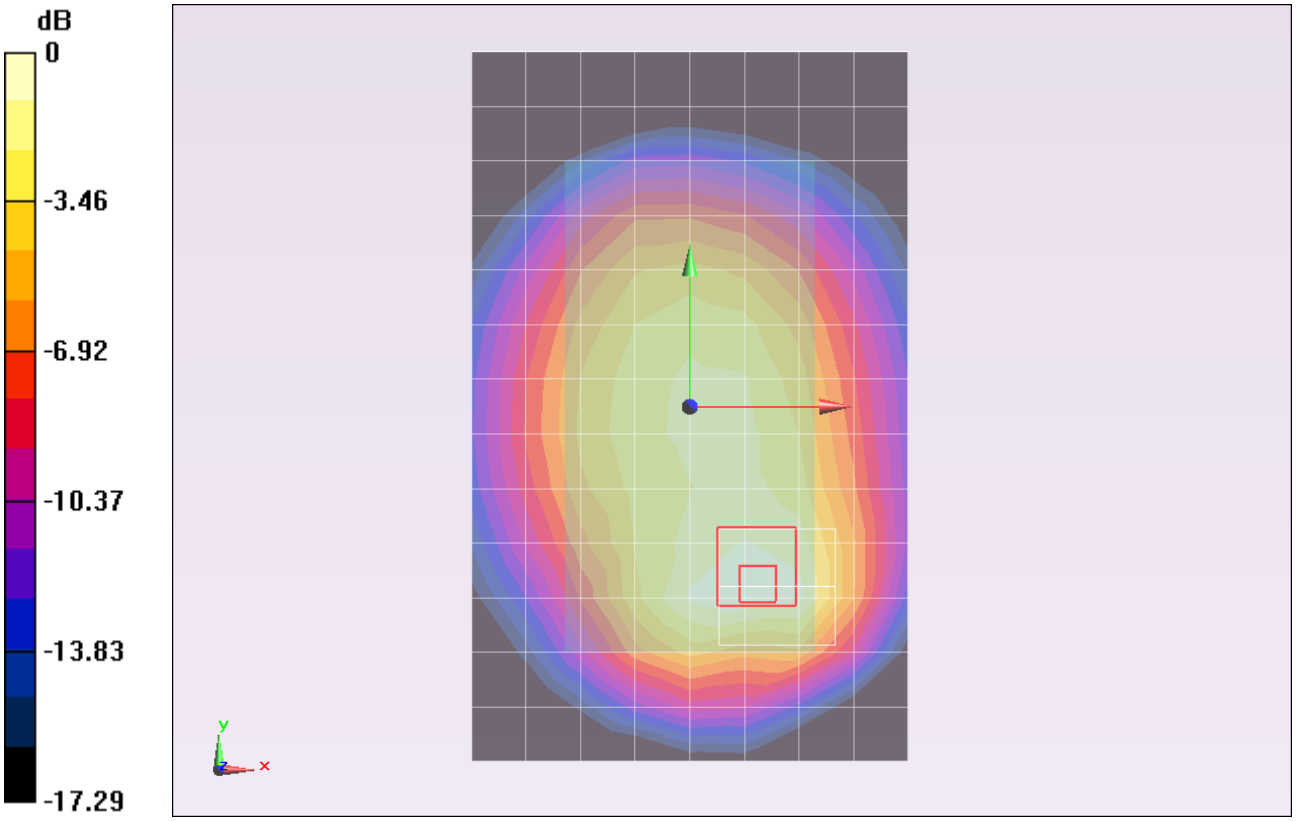
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Rear/QPSK_10mm Separation W/wireless charging cover_RB 1/0_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.519 mW/g

Rear/QPSK_10mm Separation W/wireless charging cover_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.268 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.7020
SAR(1 g) = 0.427 mW/g; SAR(10 g) = 0.275 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.531 mW/g



0 dB = 0.530mW/g = -5.51 dB mW/g

LTE Band 13

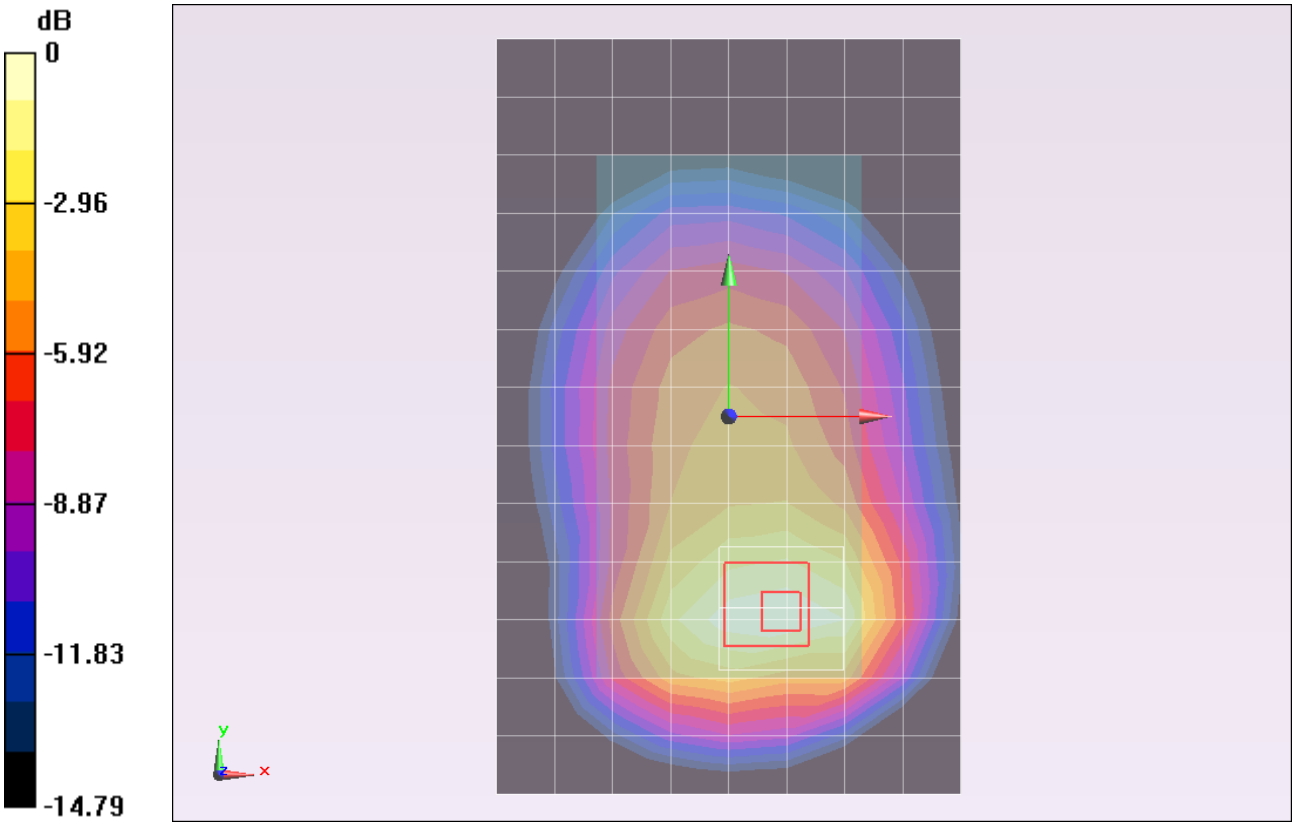
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Rear/QPSK_10mm Separation_RB 1/49_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.604 mW/g

Rear/QPSK_10mm Separation_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.210 V/m; Power Drift = -0.0091 dB
Peak SAR (extrapolated) = 0.8010
SAR(1 g) = 0.477 mW/g; SAR(10 g) = 0.300 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.595 mW/g



0 dB = 0.590mW/g = -4.58 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

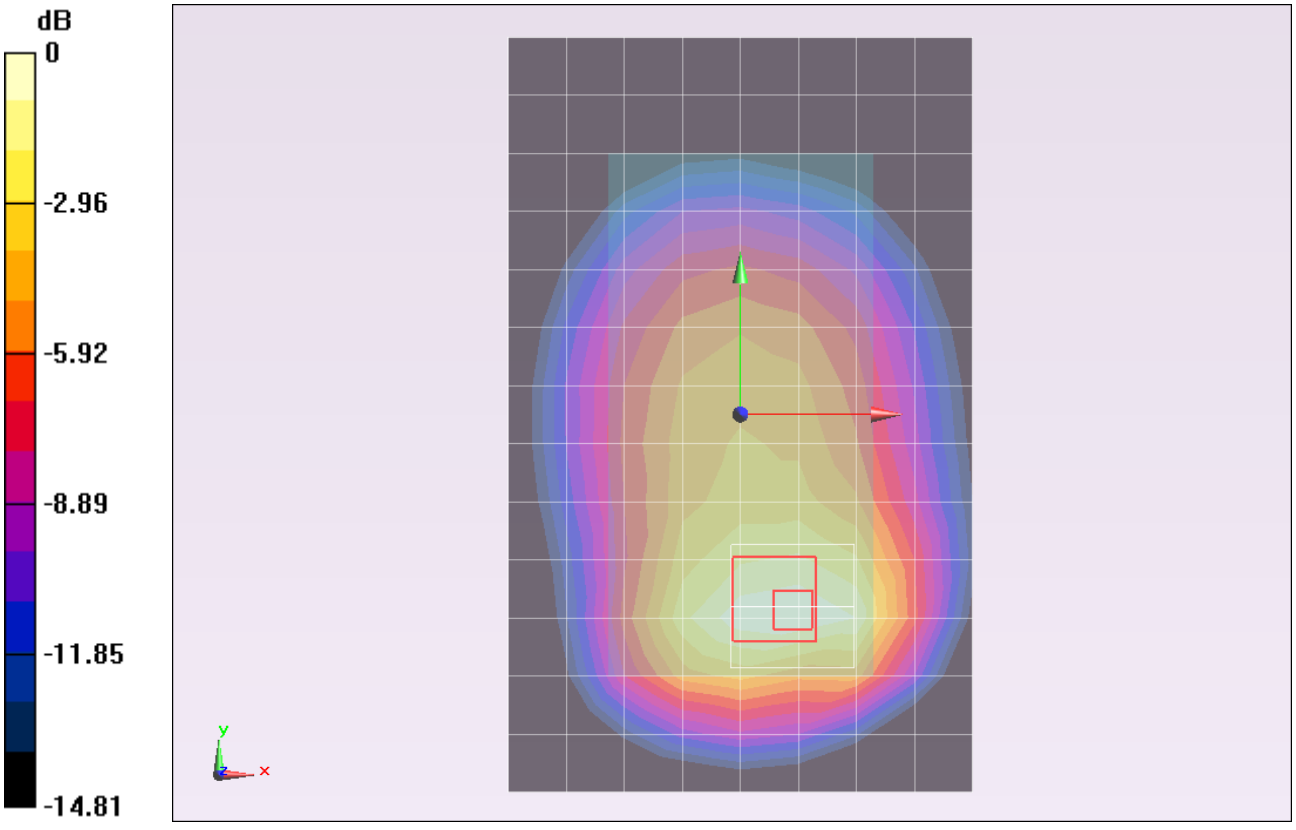
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Rear/16QAM_10mm Separation_RB 25/12_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.480 mW/g

Rear/16QAM_10mm Separation_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.284 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.6330
SAR(1 g) = 0.378 mW/g; SAR(10 g) = 0.240 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.469 mW/g



0 dB = 0.470mW/g = -6.56 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

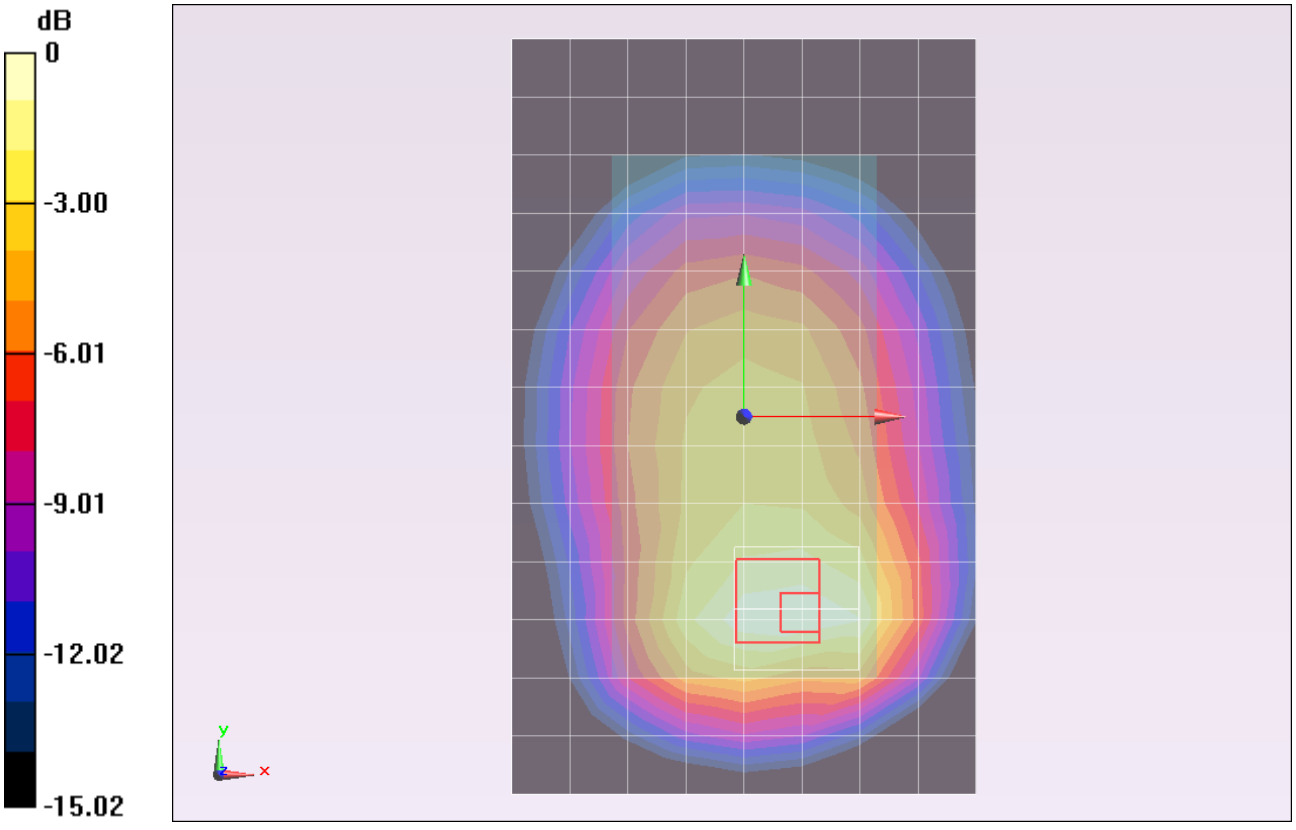
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Rear/16QAM_10mm Separation_RB 1/0_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.587 mW/g

Rear/16QAM_10mm Separation_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.872 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.7800
SAR(1 g) = 0.468 mW/g; SAR(10 g) = 0.298 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.577 mW/g



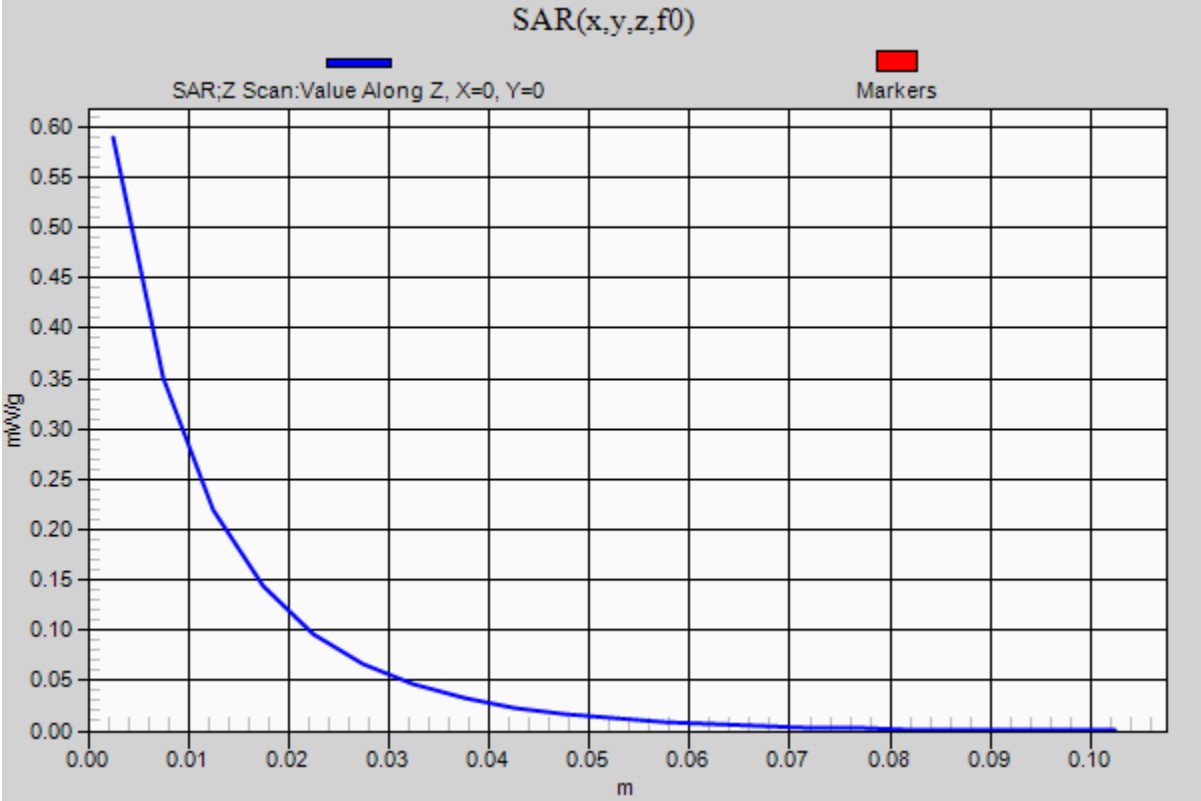
0 dB = 0.580mW/g = -4.73 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

Frequency: 782 MHz; Duty Cycle: 1:1

Rear/16QAM_10mm Separation_RB 1/0_Ch 782/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.589 mW/g



Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

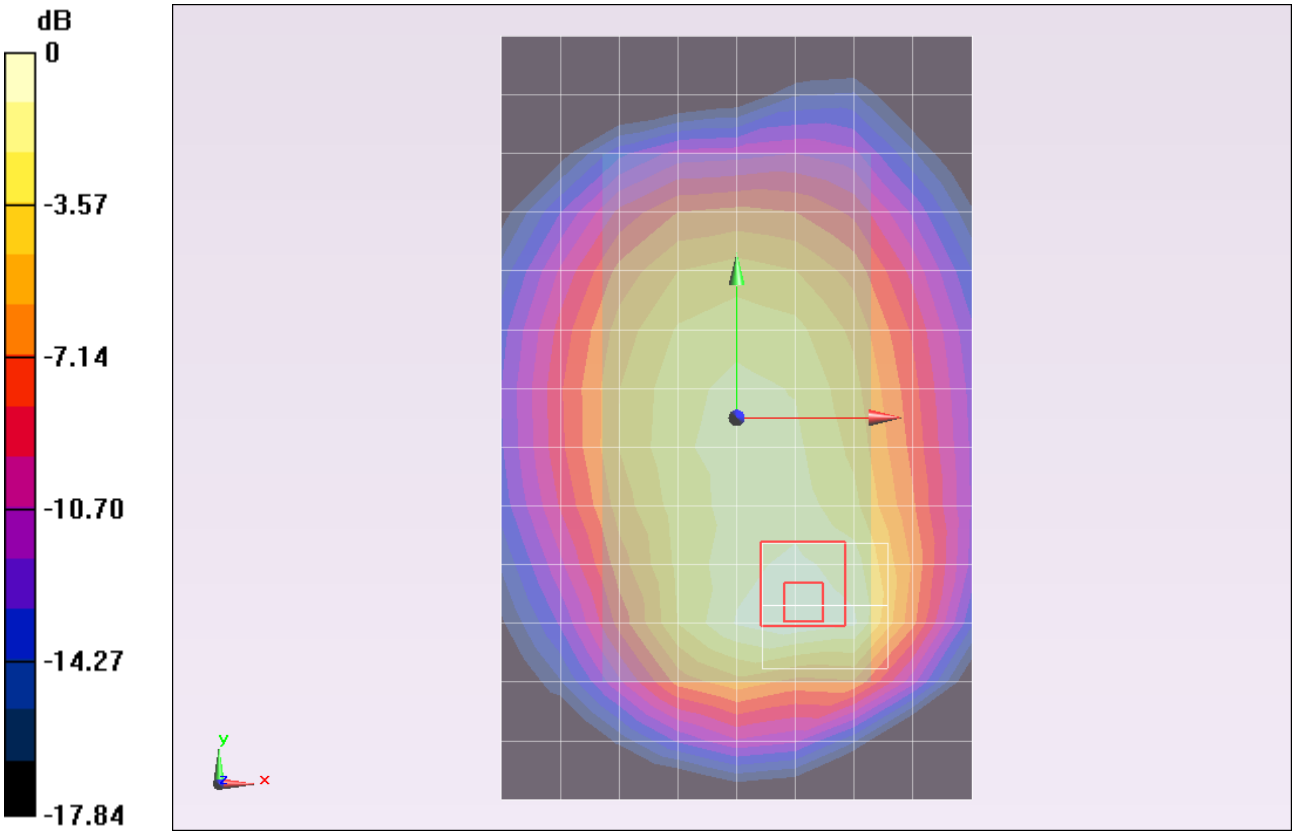
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Rear/16QAM_10mm Separation W/Headset_RB 1/0_Ch 782/Area Scan (9x14x1):

Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.506 mW/g

Rear/16QAM_10mm Separation W/Headset_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.889 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.7040
SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.273 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.527 mW/g



0 dB = 0.530mW/g = -5.51 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/29/2012

LTE Band 13

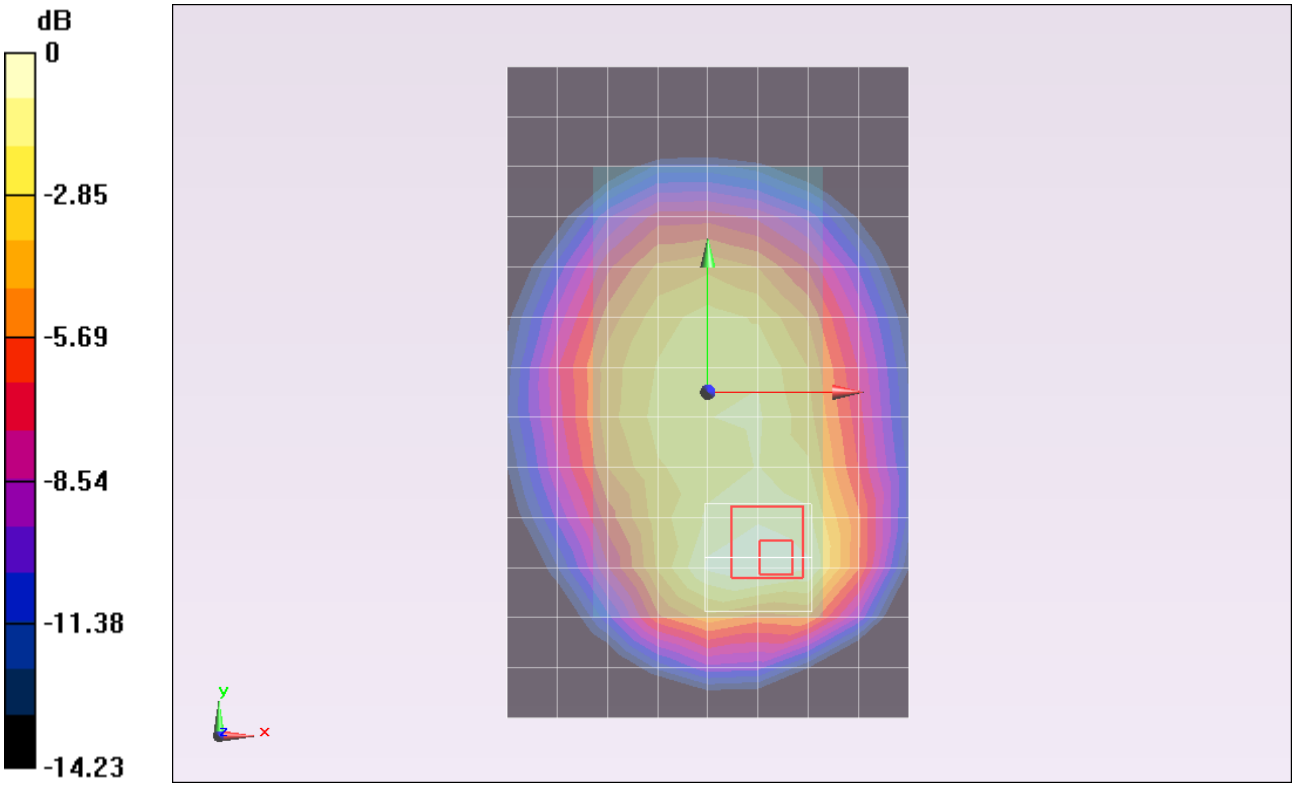
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Rear/16QAM_10mm Separation W/wireless charging cover_RB 1/0_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.399 mW/g

Rear/16QAM_10mm Separation W/wireless charging cover_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.345 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.5230
SAR(1 g) = 0.322 mW/g; SAR(10 g) = 0.210 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.395 mW/g



0 dB = 0.390mW/g = -8.18 dB mW/g

LTE Band 13

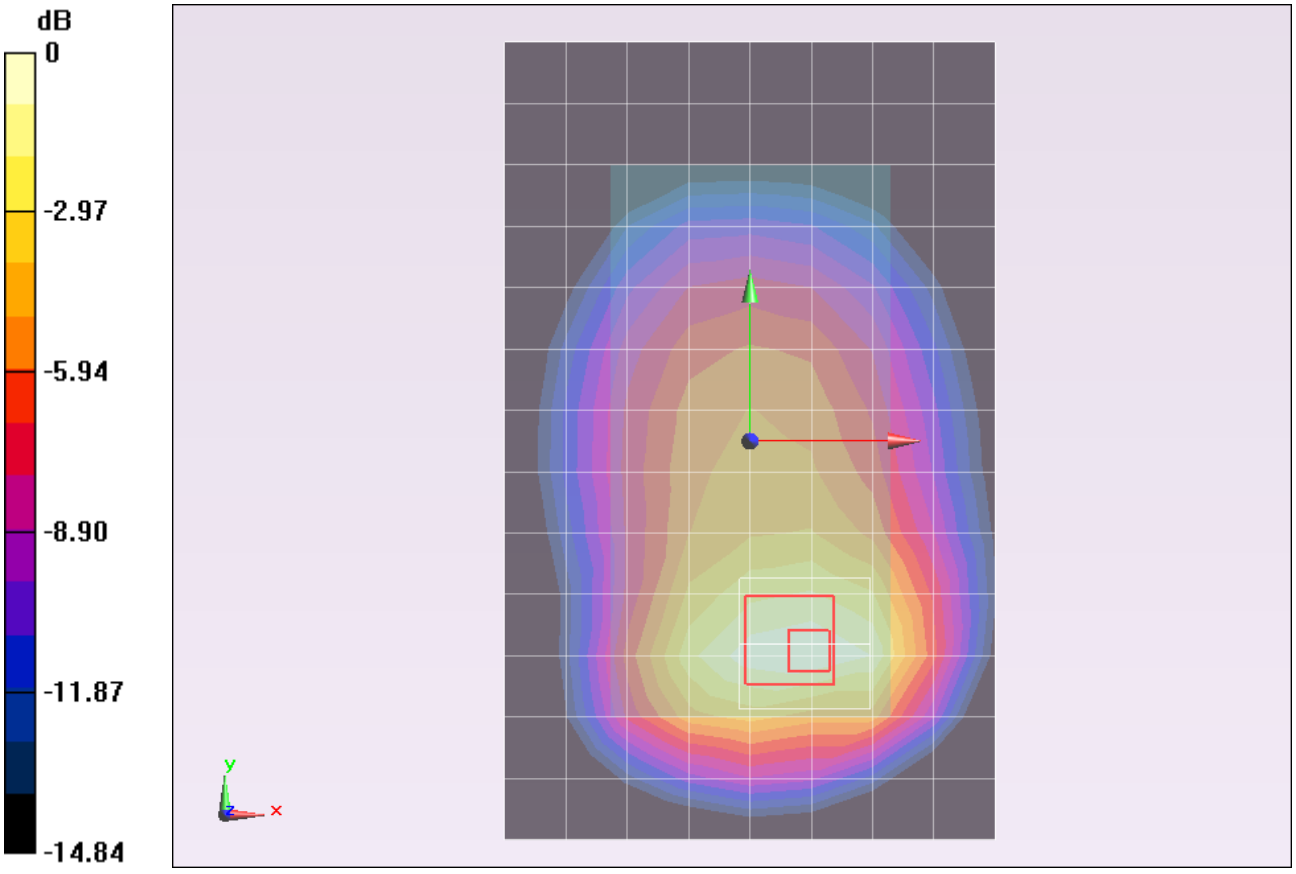
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Rear/16QAM_10mm Separation_RB 1/49_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.524 mW/g

Rear/16QAM_10mm Separation_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.353 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.6800
SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.256 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.507 mW/g



0 dB = 0.510mW/g = -5.85 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

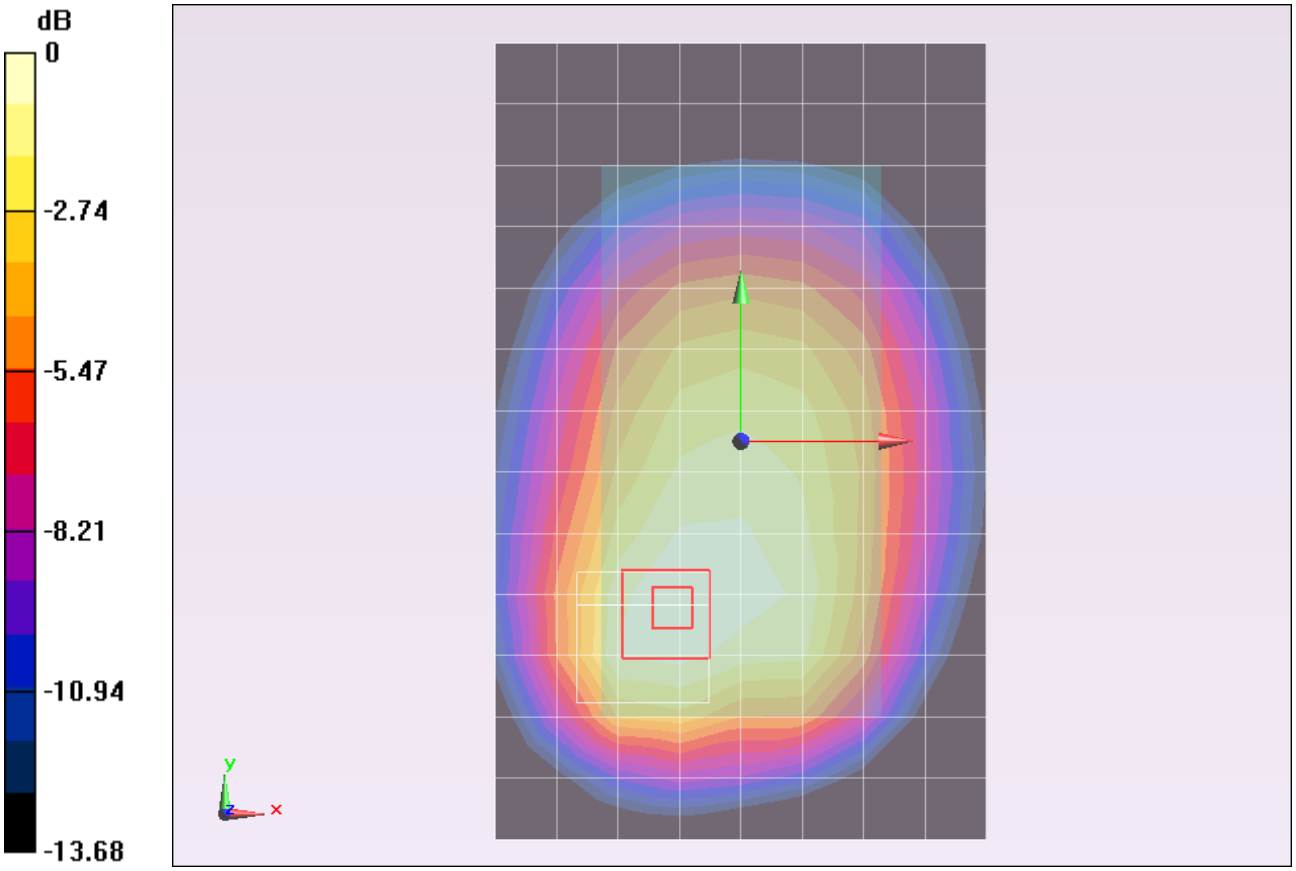
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118

Front/QPSK_10mm Separation_RB 25/12_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.334 mW/g

Front/QPSK_10mm Separation_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.856 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.4270
SAR(1 g) = 0.287 mW/g; SAR(10 g) = 0.194 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.343 mW/g



0 dB = 0.340mW/g = -9.37 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

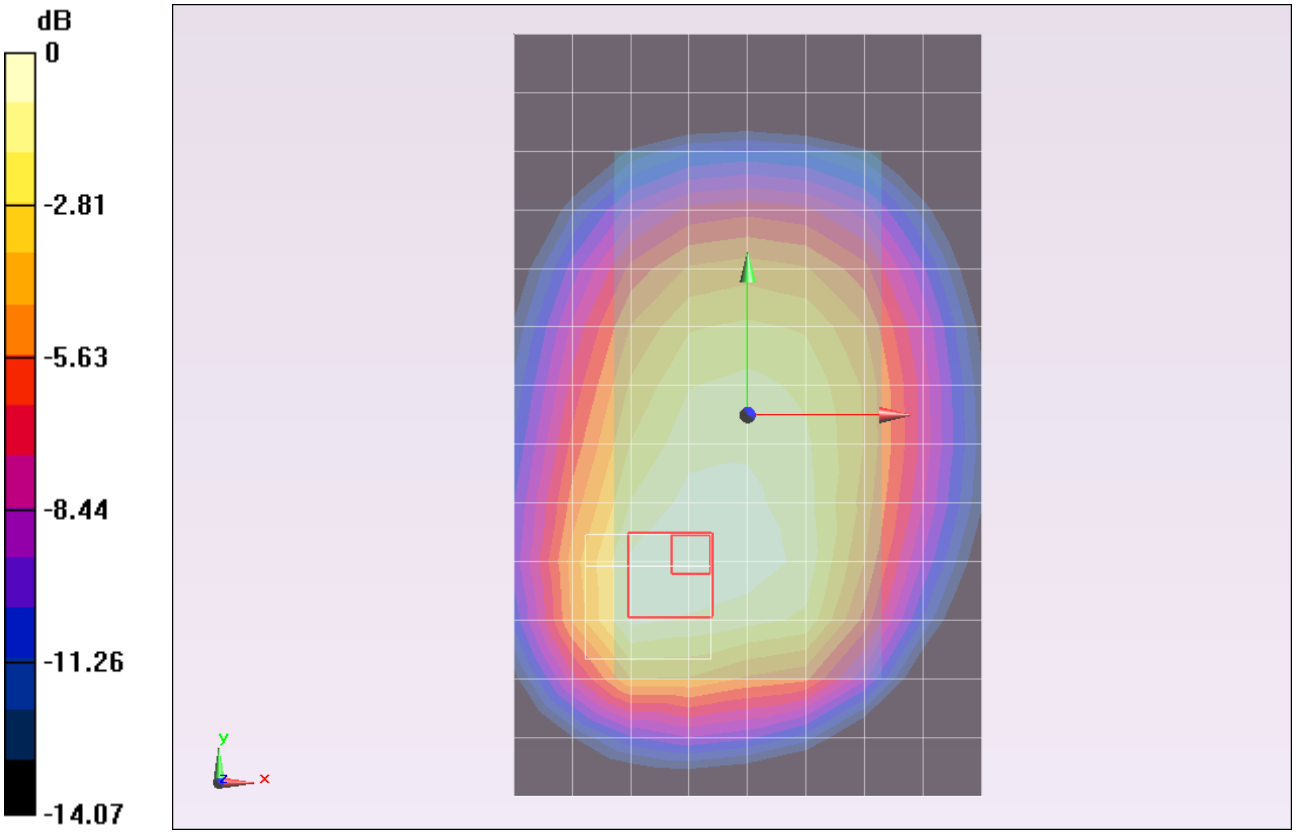
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Front/QPSK_10mm Separation_RB 1/0_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.382 mW/g

Front/QPSK_10mm Separation_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.966 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.4790
SAR(1 g) = 0.328 mW/g; SAR(10 g) = 0.221 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.389 mW/g



0 dB = 0.390mW/g = -8.18 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

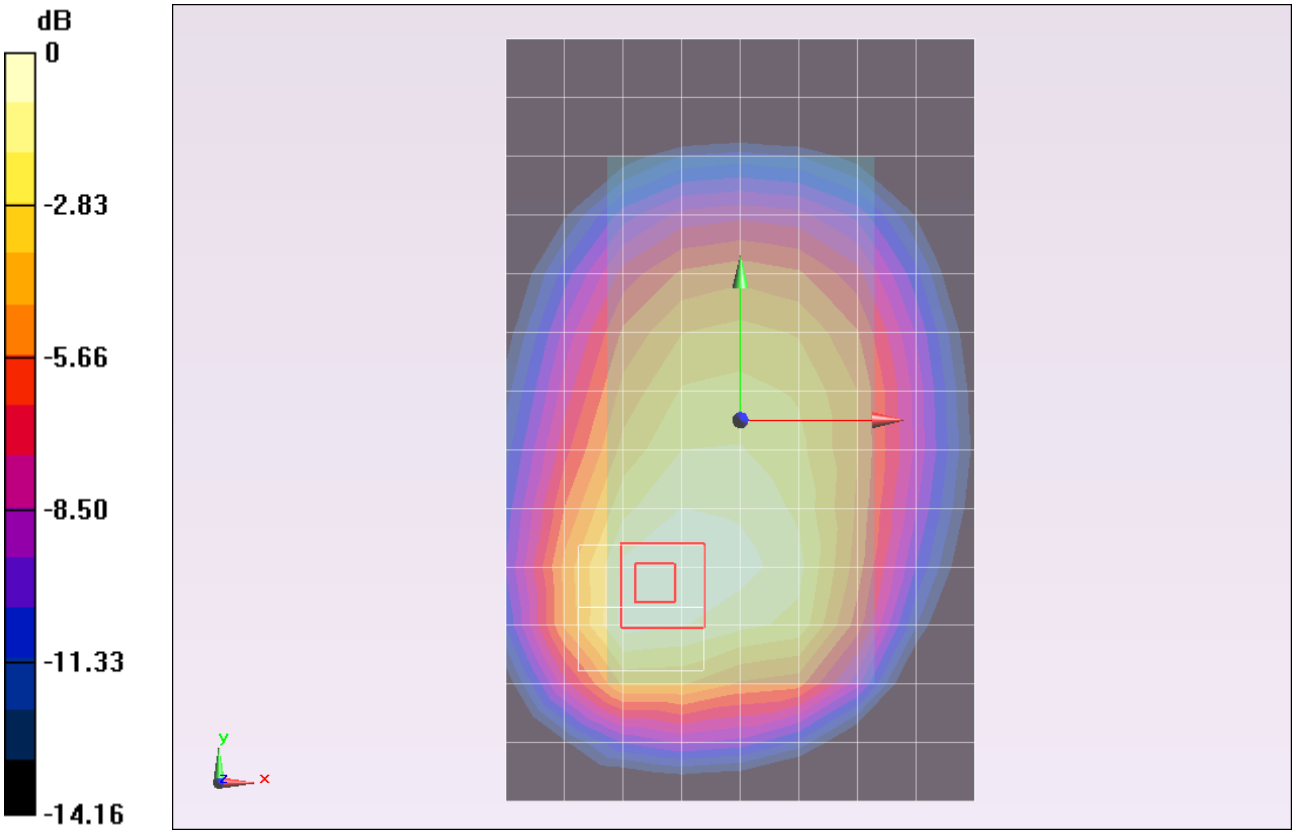
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Front/QPSK_10mm Separation_RB 1/49_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.335 mW/g

Front/QPSK_10mm Separation_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.640 V/m; Power Drift = 0.0037 dB
Peak SAR (extrapolated) = 0.4290
SAR(1 g) = 0.288 mW/g; SAR(10 g) = 0.191 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.344 mW/g



0 dB = 0.340mW/g = -9.37 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

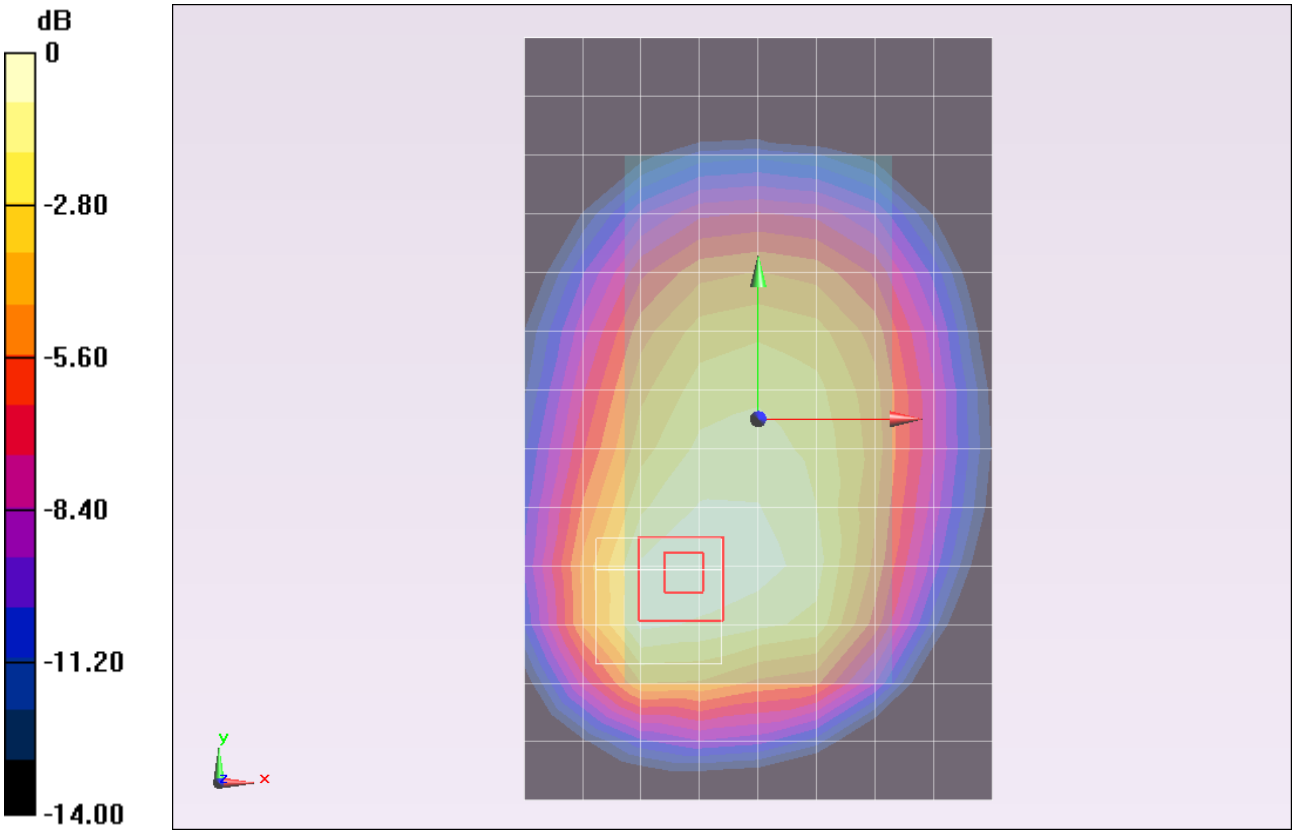
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Front/16QAM_10mm Separation_RB 25/12_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.272 mW/g

Front/16QAM_10mm Separation_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.921 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.3430
SAR(1 g) = 0.232 mW/g; SAR(10 g) = 0.156 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.276 mW/g



0 dB = 0.280mW/g = -11.06 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

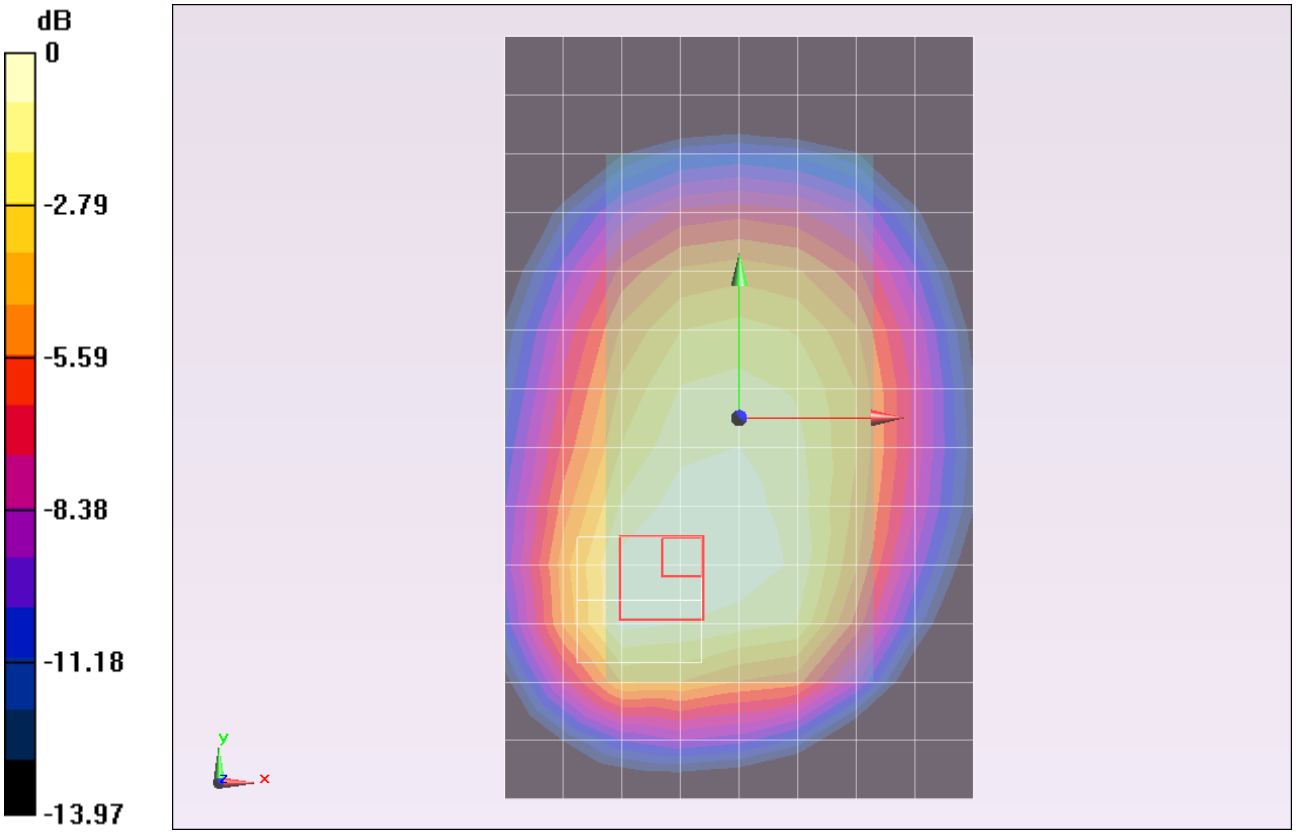
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Front/16QAM_10mm Separation_RB 1/0_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.311 mW/g

Front/16QAM_10mm Separation_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.102 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.3890
SAR(1 g) = 0.267 mW/g; SAR(10 g) = 0.180 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.314 mW/g



0 dB = 0.310mW/g = -10.17 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

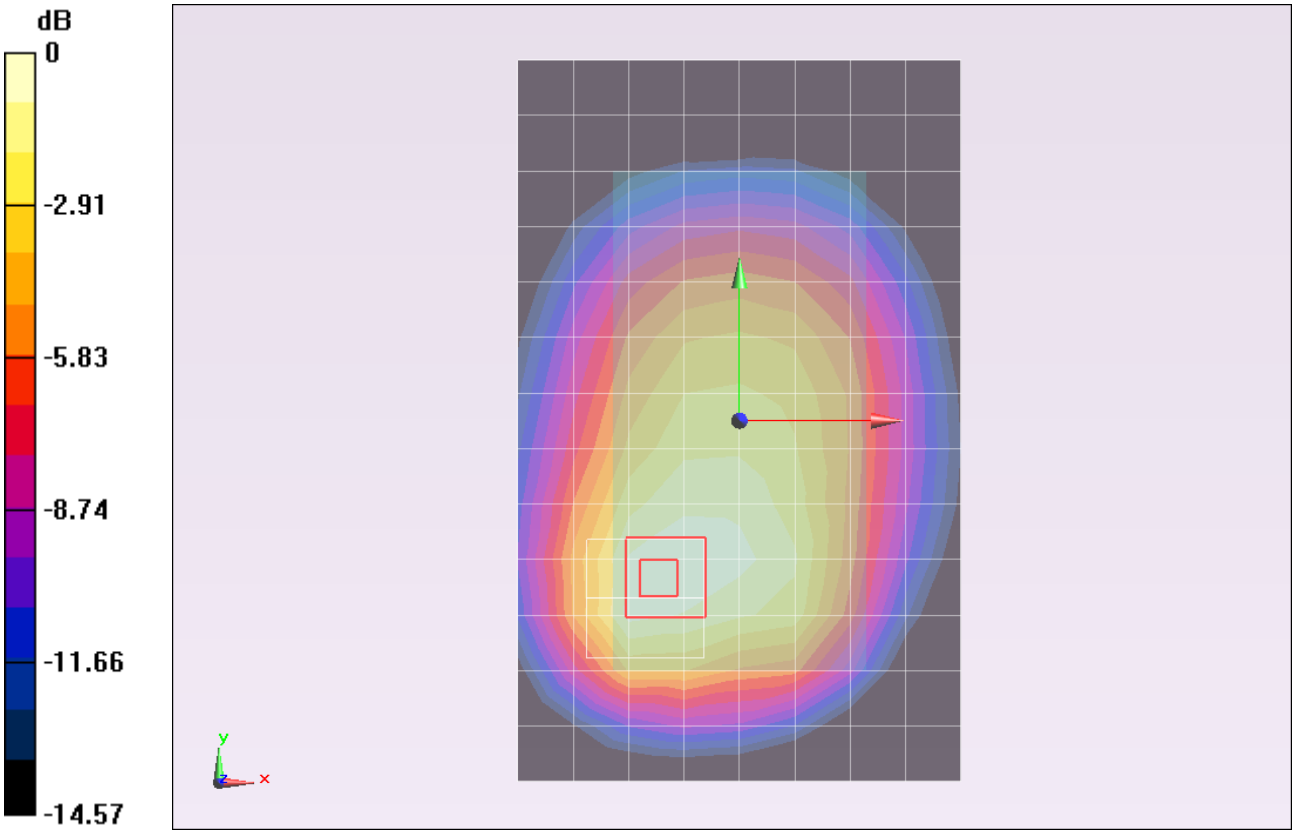
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Front/16QAM_10mm Separation_RB 1/49_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.274 mW/g

Front/16QAM_10mm Separation_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.951 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.3590
SAR(1 g) = 0.238 mW/g; SAR(10 g) = 0.157 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.285 mW/g



0 dB = 0.290mW/g = -10.75 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

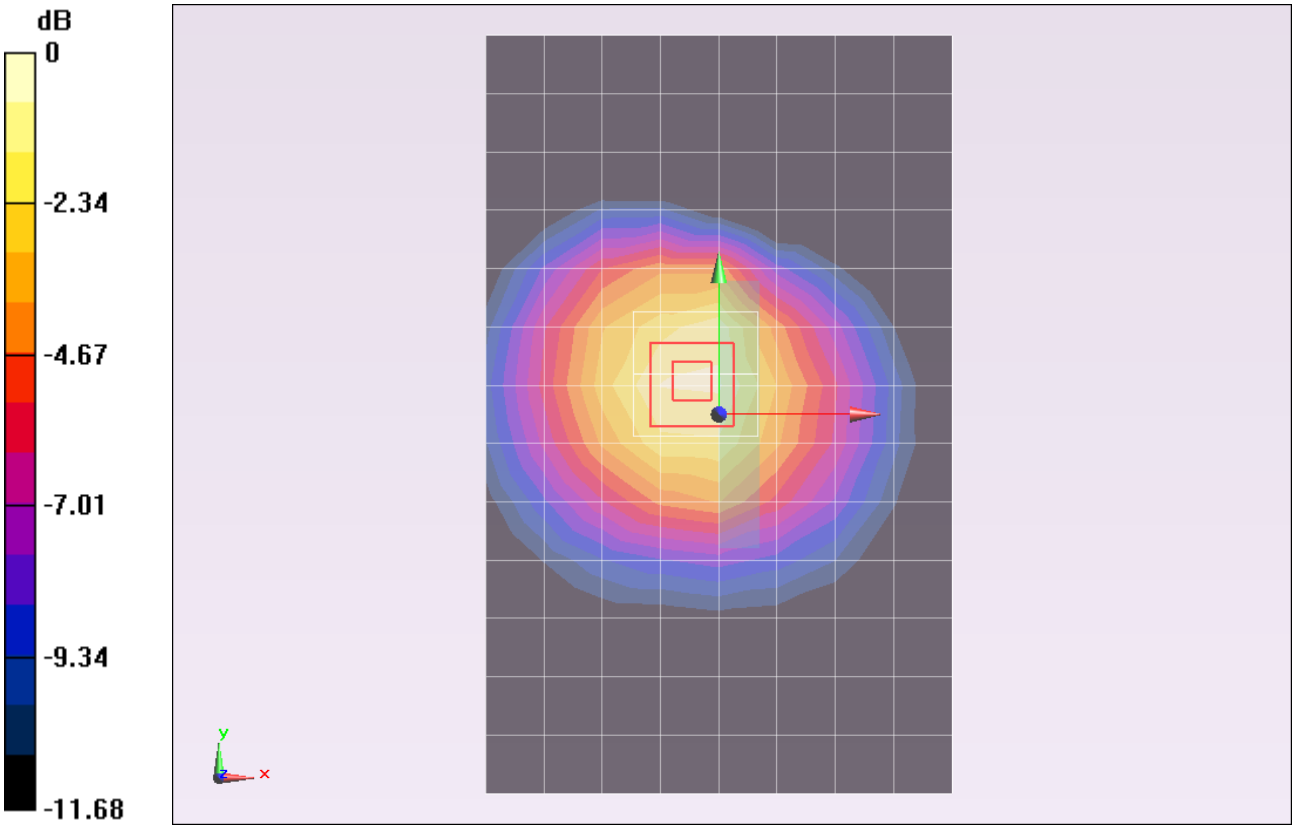
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118

Edge 3/QPSK_10mm Separation_RB 25/12_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.173 mW/g

Edge 3/QPSK_10mm Separation_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.473 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.2190
SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.115 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.196 mW/g



0 dB = 0.200mW/g = -13.98 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/29/2012

LTE Band 13

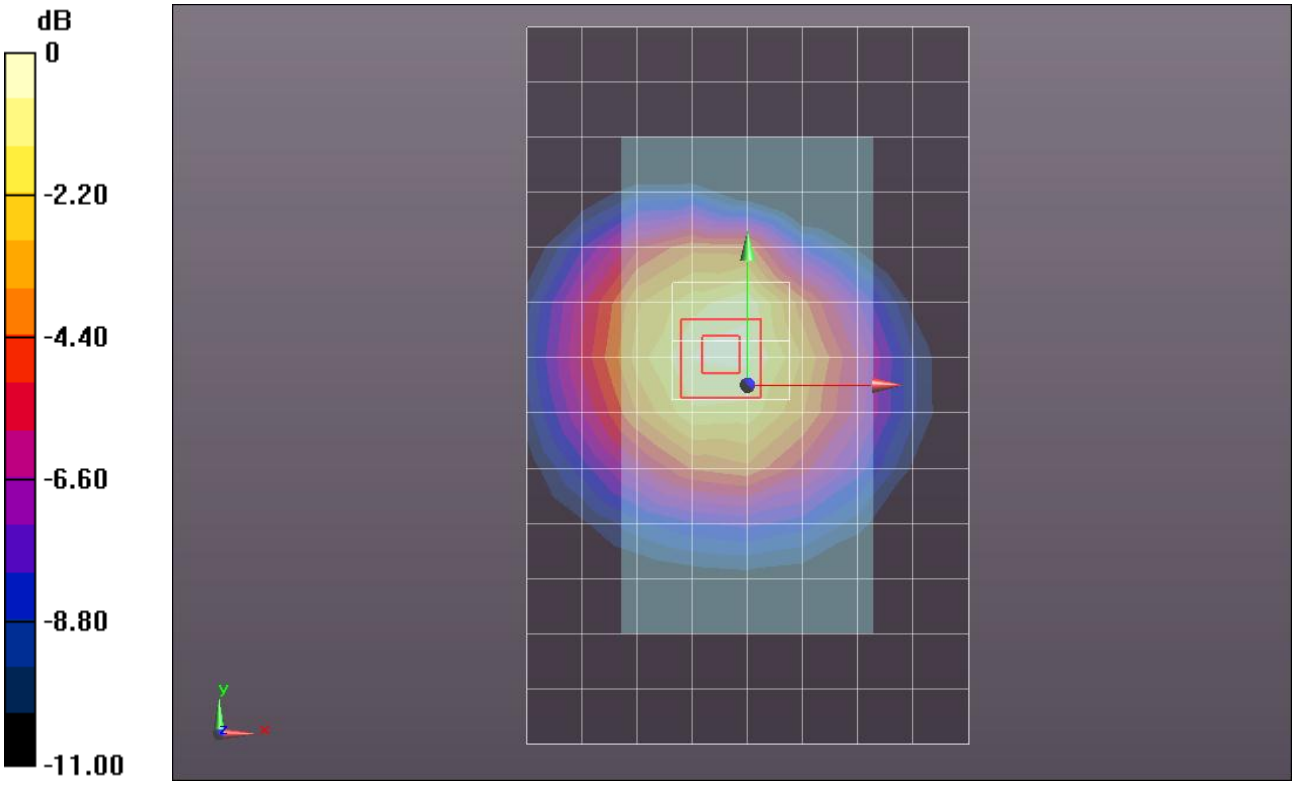
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Edge 3/QPSK_10mm Separation_RB 1/0_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.186 mW/g

Edge 3/QPSK_10mm Separation_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.876 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.2370
SAR(1 g) = 0.179 mW/g; SAR(10 g) = 0.123 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.210 mW/g



0 dB = 0.210mW/g = -13.56 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/29/2012

LTE Band 13

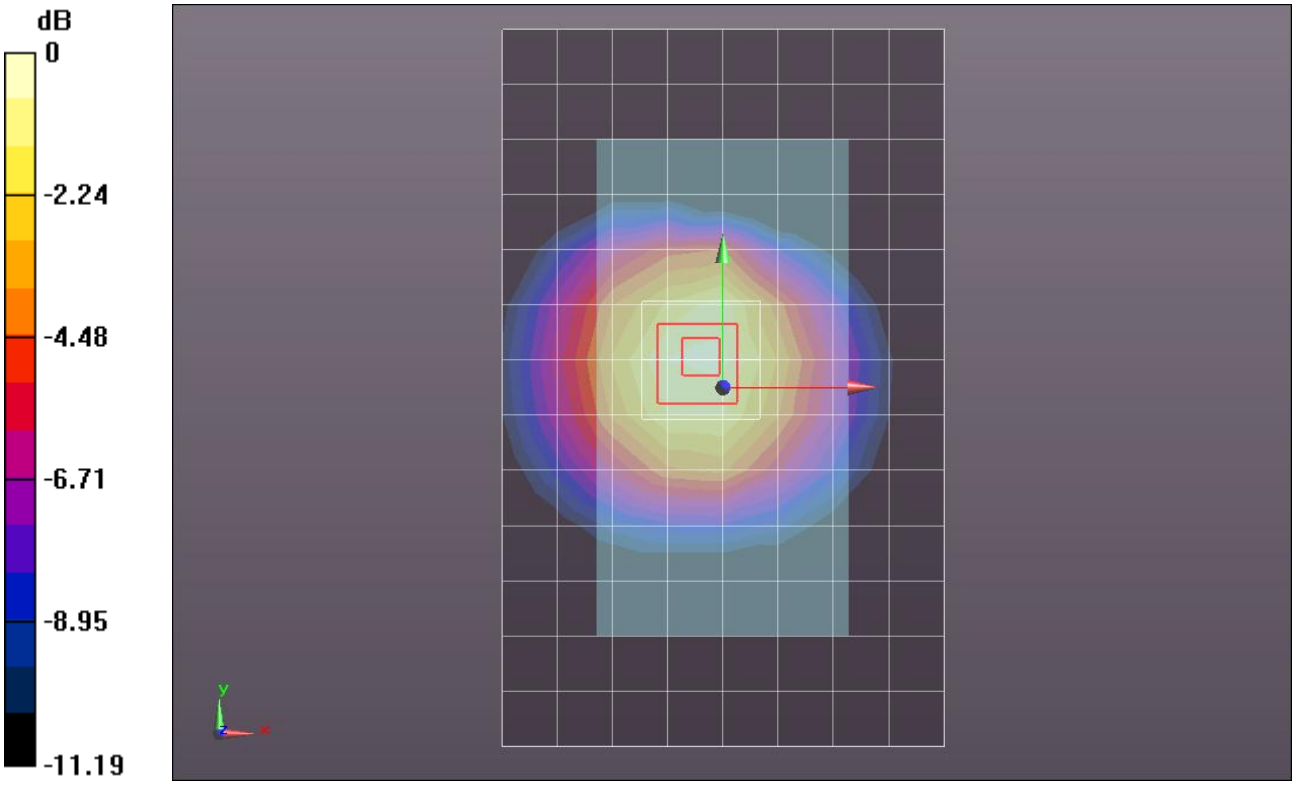
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Edge 3/QPSK_10mm Separation_RB 1/49_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.195 mW/g

Edge 3/QPSK_10mm Separation_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.188 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.2460
SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.129 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.217 mW/g



0 dB = 0.220mW/g = -13.15 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/29/2012

LTE Band 13

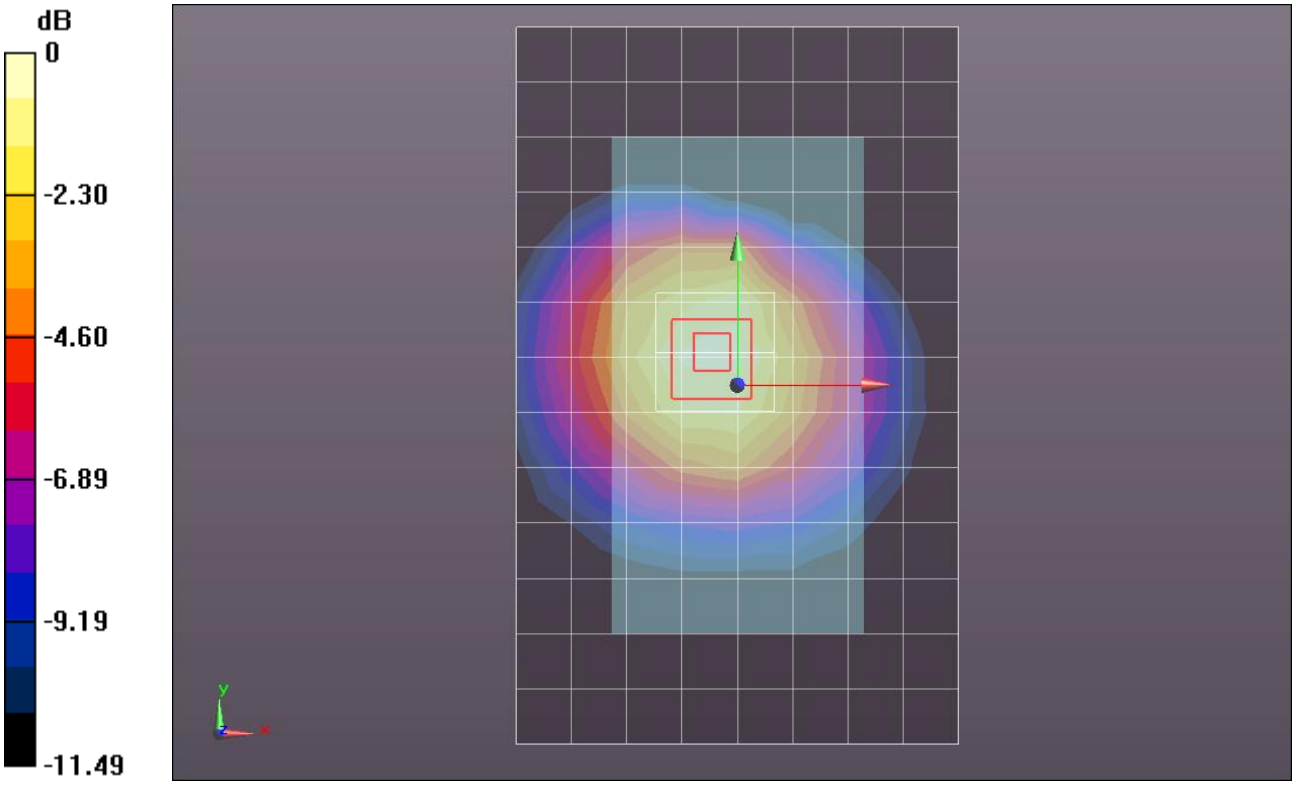
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Edge 3/16QAM_10mm Separation_RB 25/12_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.142 mW/g

Edge 3/16QAM_10mm Separation_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.177 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.1800
SAR(1 g) = 0.137 mW/g; SAR(10 g) = 0.094 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.159 mW/g



0 dB = 0.160mW/g = -15.92 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/29/2012

LTE Band 13

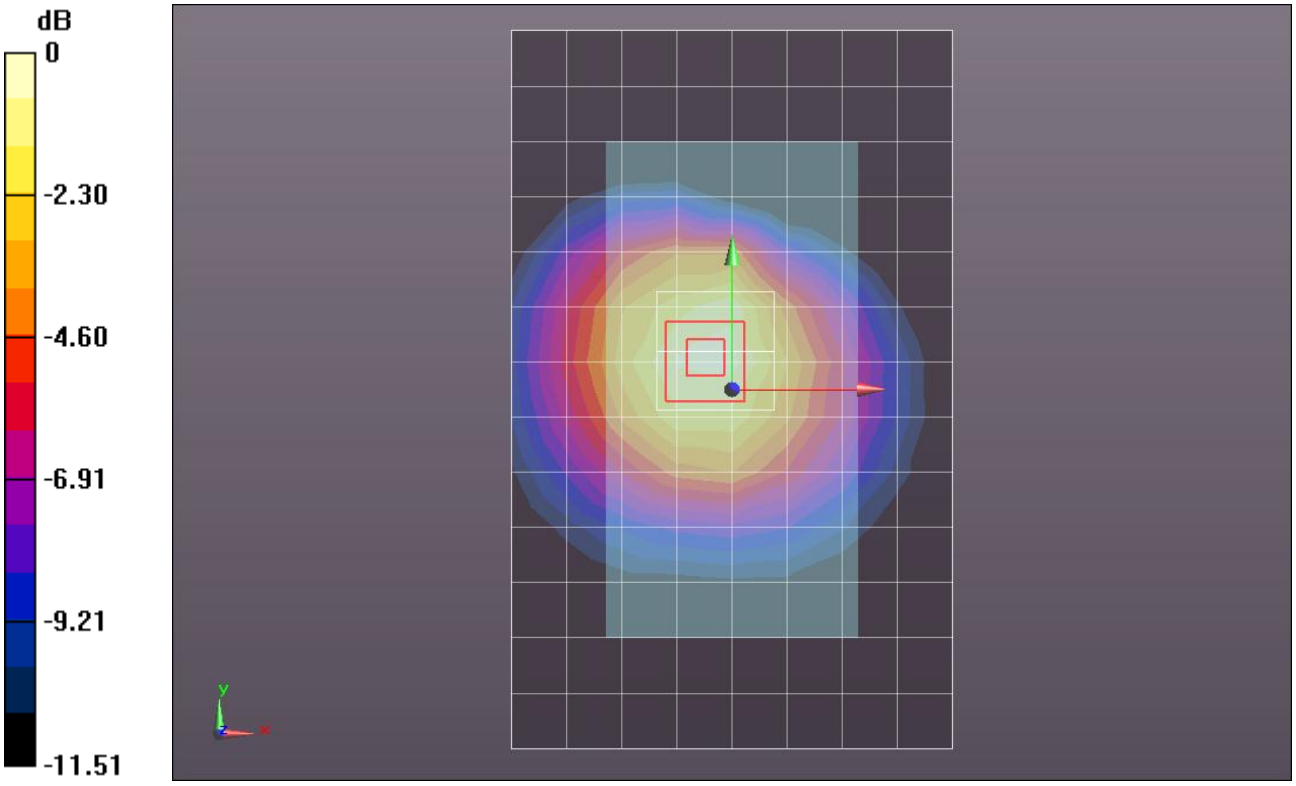
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Edge 3/16QAM_10mm Separation_RB 1/0_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.162 mW/g

Edge 3/16QAM_10mm Separation_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.770 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.2030
SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.105 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.179 mW/g



0 dB = 0.180mW/g = -14.89 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/29/2012

LTE Band 13

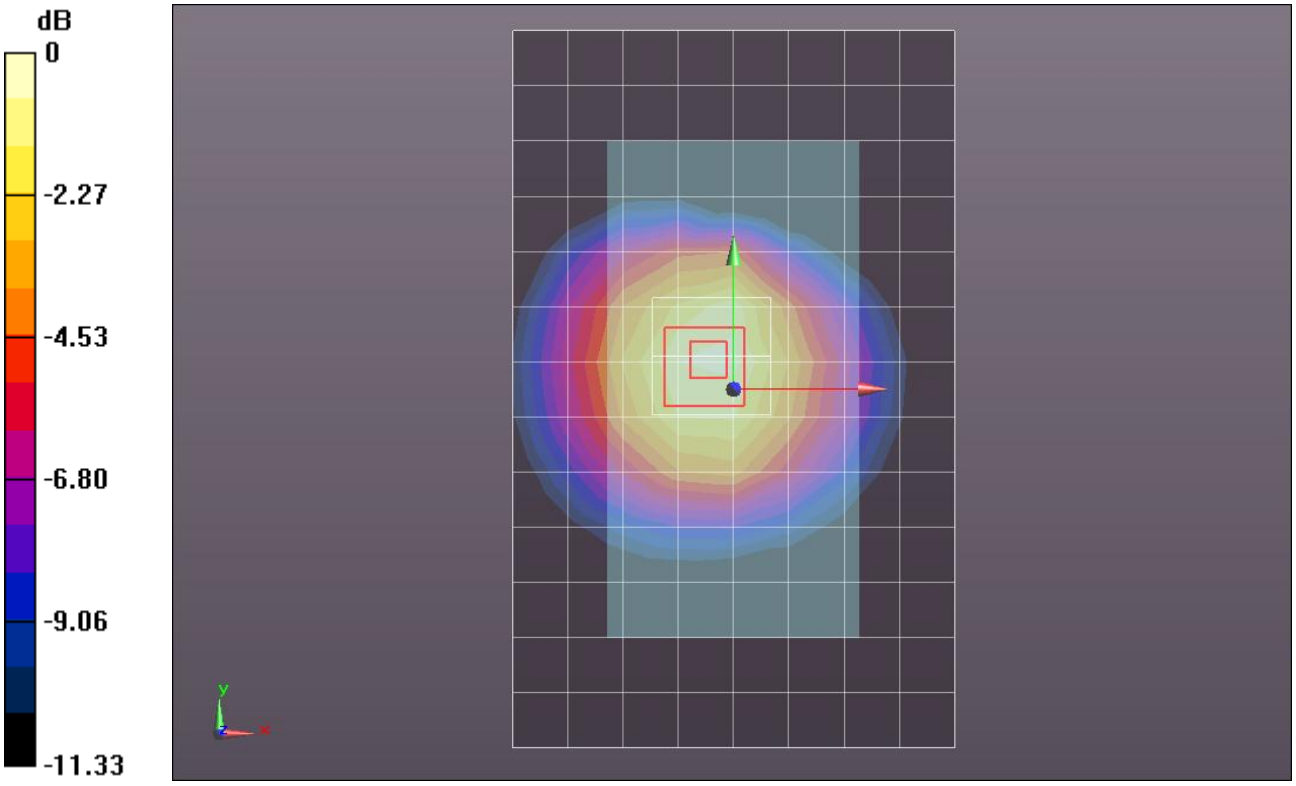
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Edge 3/16QAM_10mm Separation_RB 1/49_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.168 mW/g

Edge 3/16QAM_10mm Separation_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.143 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.2090
SAR(1 g) = 0.160 mW/g; SAR(10 g) = 0.111 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.187 mW/g



0 dB = 0.190mW/g = -14.42 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

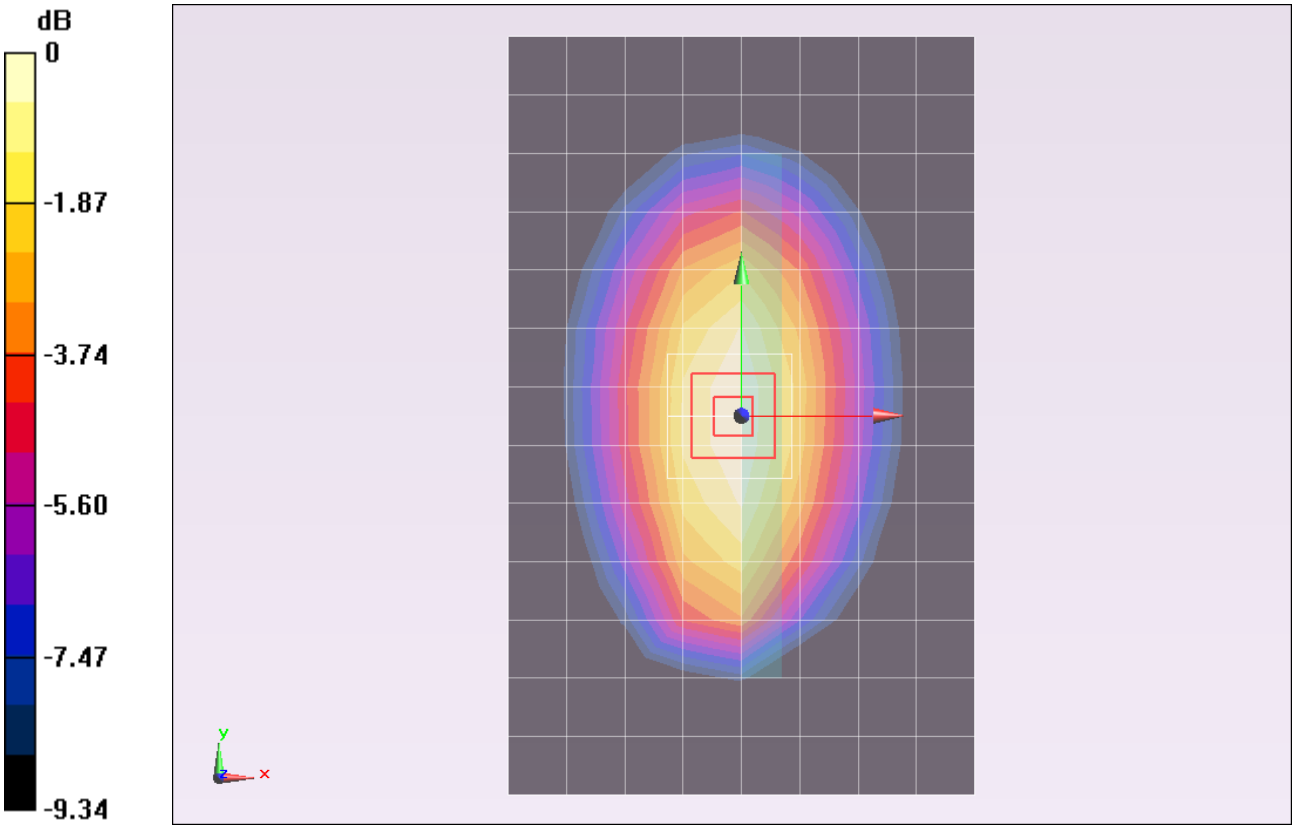
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (B); Type: QDOVA001BB; Serial: 1118

Edge 4/QPSK_10mm Separation_RB 25/12_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.328 mW/g

Edge 4/QPSK_10mm Separation_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.496 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.3910
SAR(1 g) = 0.284 mW/g; SAR(10 g) = 0.199 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.334 mW/g



0 dB = 0.330mW/g = -9.63 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

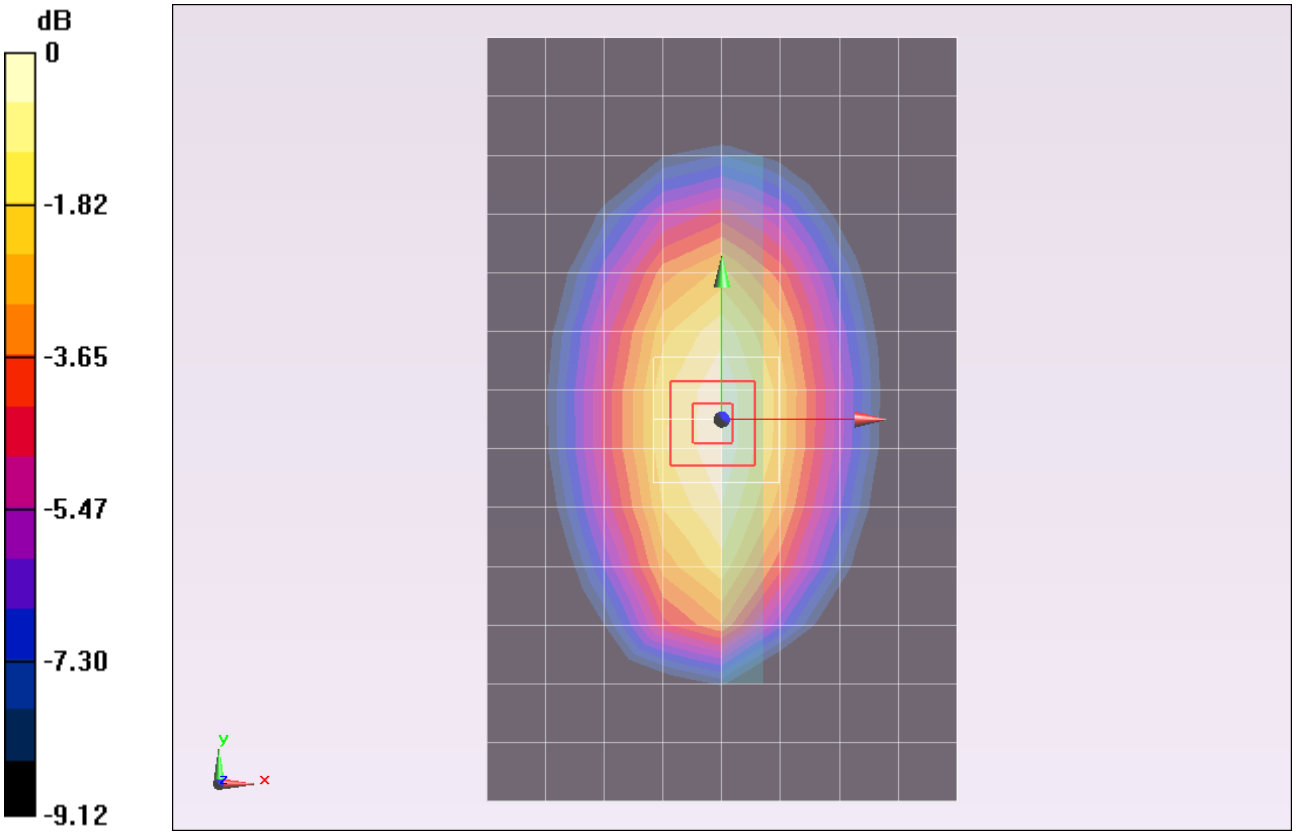
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Edge 4/QPSK_10mm Separation_RB 1/0_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.420 mW/g

Edge 4/QPSK_10mm Separation_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.881 V/m; Power Drift = -0.0015 dB
Peak SAR (extrapolated) = 0.4970
SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.255 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.425 mW/g



0 dB = 0.430mW/g = -7.33 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

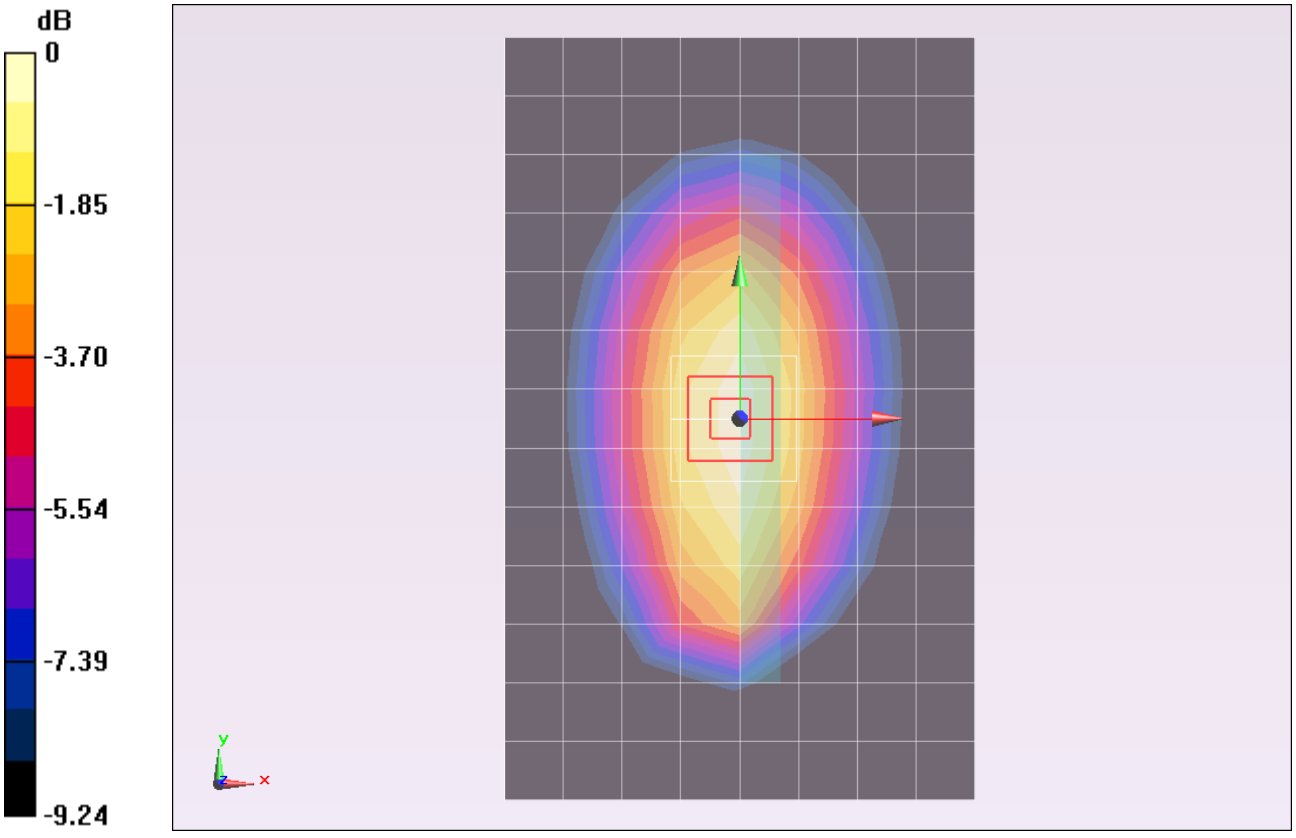
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Edge 4/QPSK_10mm Separation_RB 1/49_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.278 mW/g

Edge 4/QPSK_10mm Separation_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.090 V/m; Power Drift = 0.0057 dB
Peak SAR (extrapolated) = 0.3360
SAR(1 g) = 0.245 mW/g; SAR(10 g) = 0.172 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.287 mW/g



0 dB = 0.290mW/g = -10.75 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

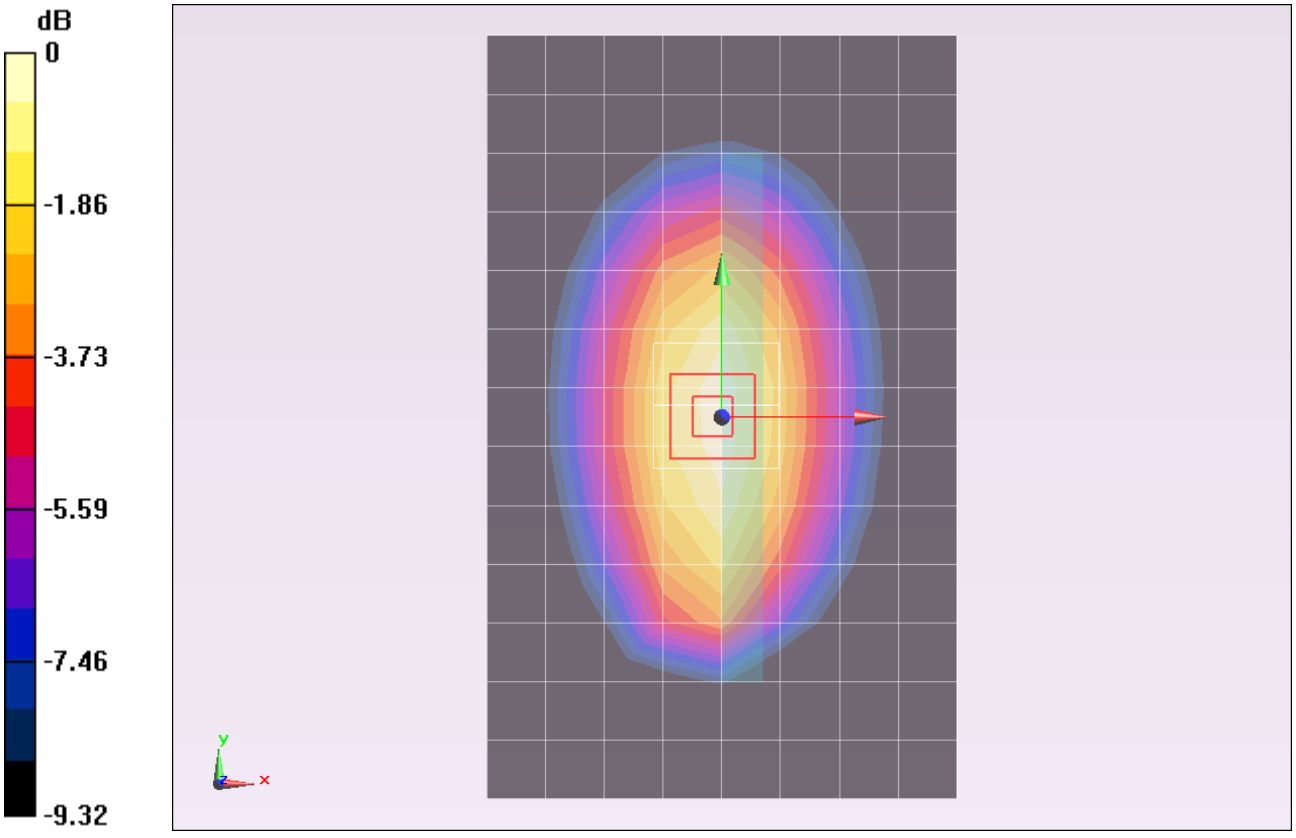
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Edge 4/16QAM_10mm Separation_RB 25/12_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.261 mW/g

Edge 4/16QAM_10mm Separation_RB 25/12_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.572 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.3130
SAR(1 g) = 0.228 mW/g; SAR(10 g) = 0.159 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.268 mW/g



0 dB = 0.270mW/g = -11.37 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

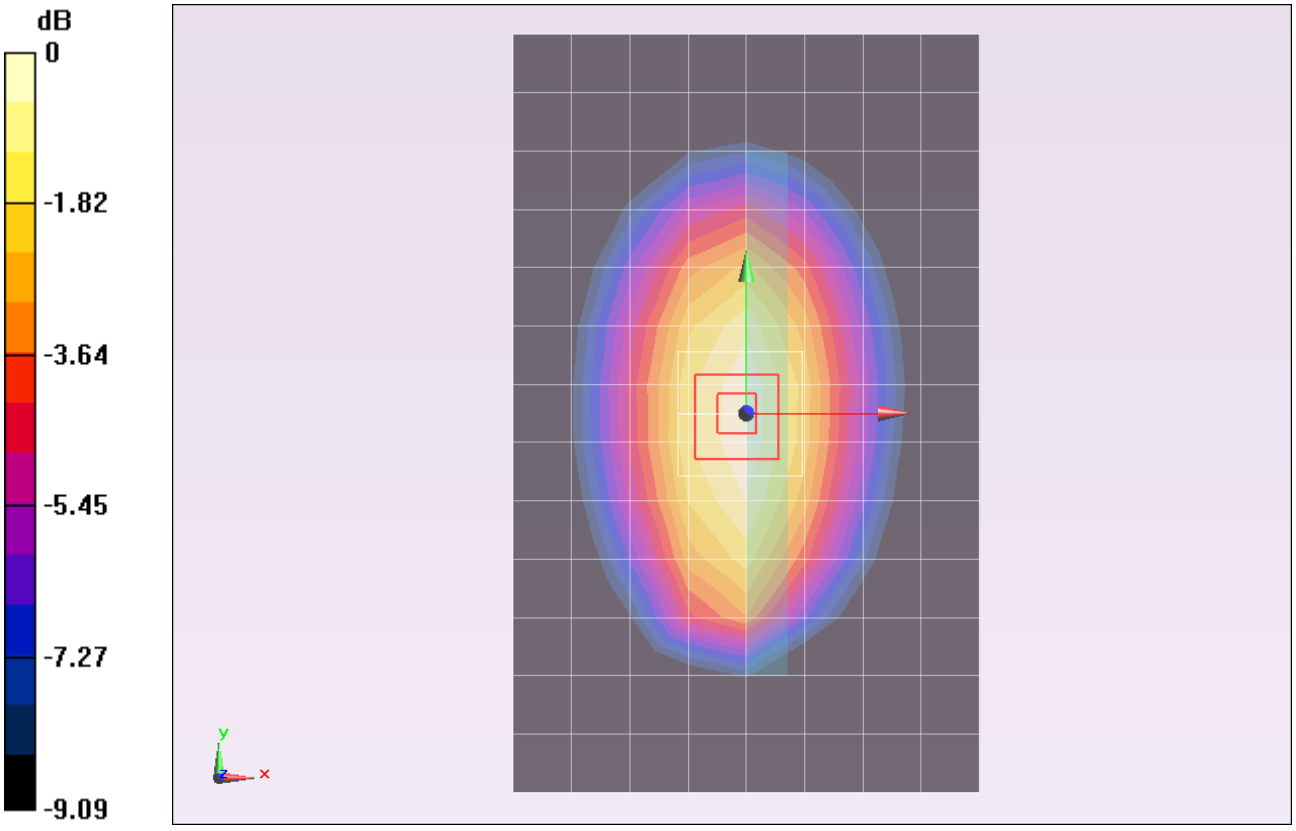
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Edge 4/16QAM_10mm Separation_RB 1/0_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.354 mW/g

Edge 4/16QAM_10mm Separation_RB 1/0_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.189 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.4260
SAR(1 g) = 0.309 mW/g; SAR(10 g) = 0.217 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.363 mW/g



0 dB = 0.360mW/g = -8.87 dB mW/g

Test Laboratory: UL CCS SAR Lab A Date: 3/28/2012

LTE Band 13

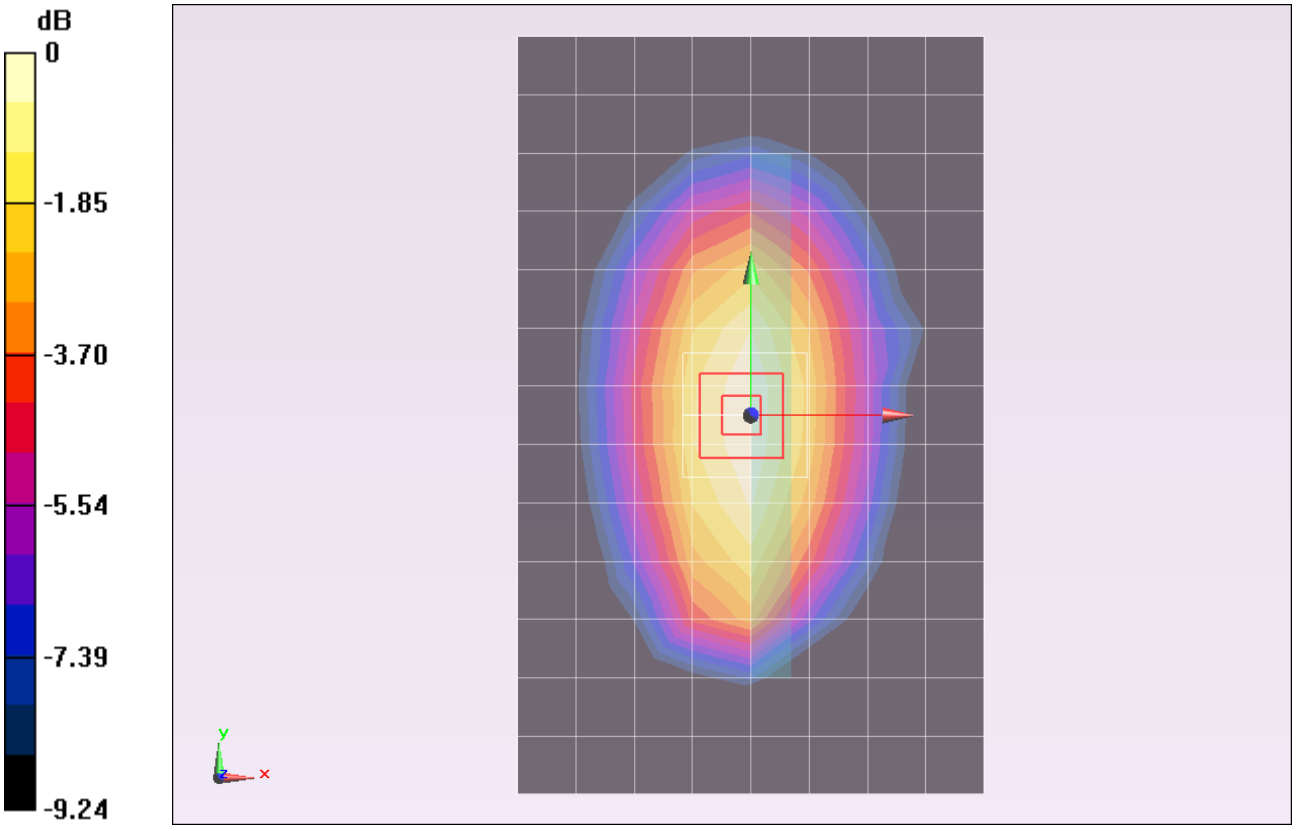
Frequency: 782 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C
Medium parameters used (interpolated): f = 782 MHz; σ = 0.984 mho/m; ε_r = 55.26; ρ = 1000 kg/m^3
DASY5 Configuration:
- Electronics: DAE4 Sn1239; Calibrated: 10/18/2011
- Probe: EX3DV4 - SN3772; ConvF(8.94, 8.94, 8.94); Calibrated: 2/16/2012
- 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: 1118

Edge 4/16QAM_10mm Separation_RB 1/49_Ch 782/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.247 mW/g

Edge 4/16QAM_10mm Separation_RB 1/49_Ch 782/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.022 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.2930
SAR(1 g) = 0.213 mW/g; SAR(10 g) = 0.150 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.250 mW/g



0 dB = 0.250mW/g = -12.04 dB mW/g