Test Laboratory: UnionTrust Date: 2019/5/23

**P01_GSM850_GPRS12_Left Cheek_190**

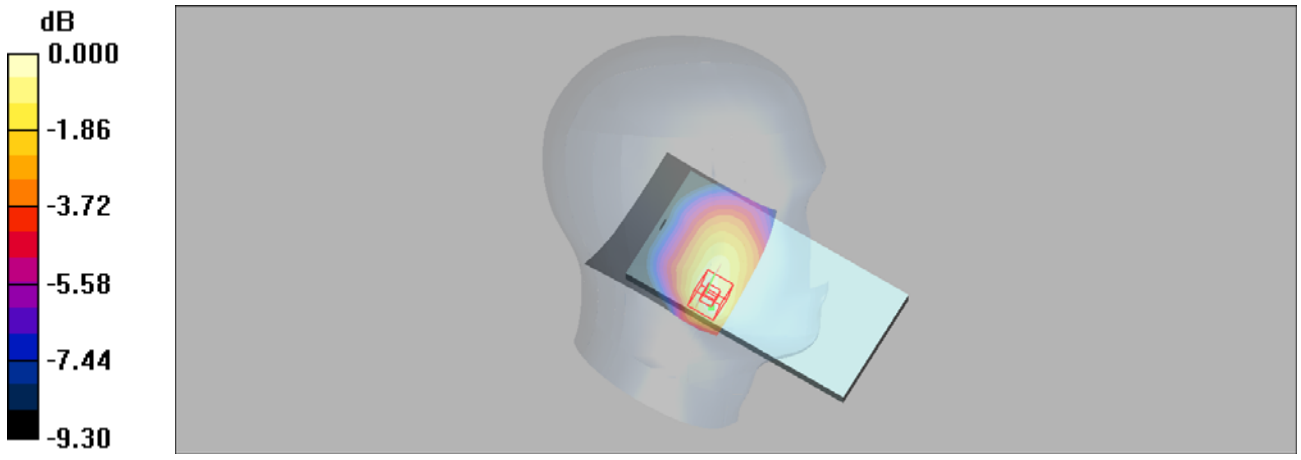
**DUT: EUT**

Communication System: GPRS 850-4solt; Frequency: 836.6 MHz;Duty Cycle: 1:2
Medium: H850 Medium parameters used: f = 837 MHz; $\sigma$ = 0.899 mho/m; $\varepsilon_r$ = 41.9; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.12, 6.12, 6.12); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x71x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.400 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.72 V/m; Power Drift = 0.158 dB
Peak SAR (extrapolated) = 0.564 W/kg
**SAR(1 g) = 0.382 mW/g; SAR(10 g) = 0.263 mW/g**
Maximum value of SAR (measured) = 0.431 mW/g




0 dB = 0.431mW/g

Test Laboratory: UnionTrust Date: 2019/5/26

## P02_GSM1900_GPRS12_Left Cheek_512

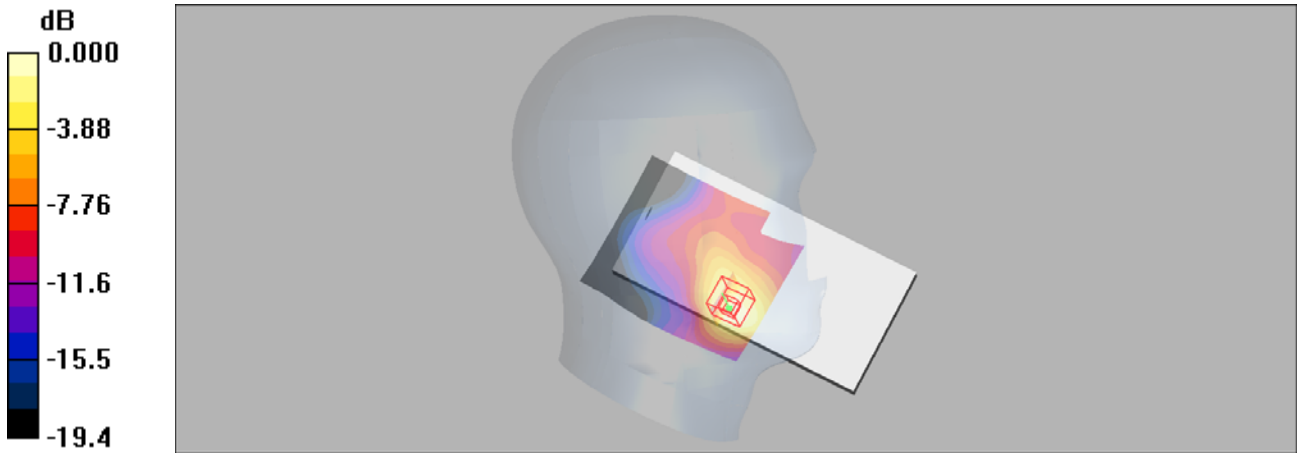
### DUT: EUT

Communication System: GPRS1900-4slots; Frequency: 1850.2 MHz;Duty Cycle: 1:2
Medium: H1900 Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma$ = 1.39 mho/m; $\varepsilon_r$ = 41.2; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(5.06, 5.06, 5.06); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.283 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.66 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.355 W/kg
**SAR(1 g) = 0.224 mW/g; SAR(10 g) = 0.134 mW/g**
Maximum value of SAR (measured) = 0.273 mW/g




0 dB = 0.273mW/g

Test Laboratory: UnionTrust Date: 2019/5/26

## P03_WCDMA II_RMC12.2K_Left Cheek_9262

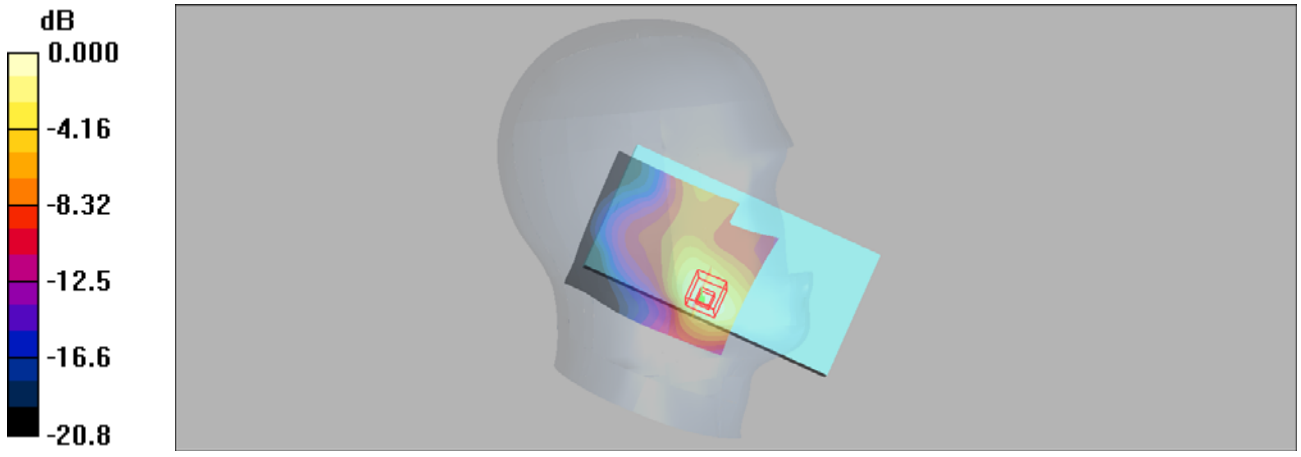
### DUT: EUT

Communication System: WCDMA Band II; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: H1900 Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma$ = 1.39 mho/m; $\varepsilon_r$ = 41.2; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(5.06, 5.06, 5.06); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.428 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.60 V/m; Power Drift = 0.031 dB
Peak SAR (extrapolated) = 0.516 W/kg
**SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.199 mW/g**
Maximum value of SAR (measured) = 0.397 mW/g




0 dB = 0.397mW/g

Test Laboratory: UnionTrust Date: 2019/5/26

## P04_WCDMA IV_RMC12.2K_Left Cheek_1513

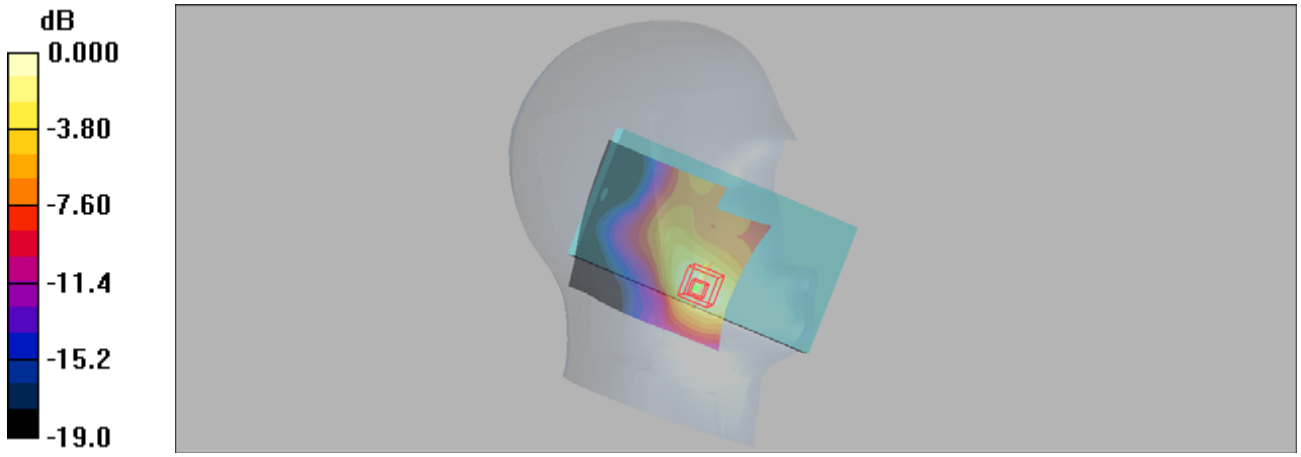
### DUT: EUT

Communication System: WCDMA Band IV; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: H1750 Medium parameters used: f = 1753 MHz; $\sigma$ = 1.39 mho/m; $\varepsilon_r$ = 39.4; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(5.36, 5.36, 5.36); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.553 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.69 V/m; Power Drift = 0.041 dB
Peak SAR (extrapolated) = 0.660 W/kg
**SAR(1 g) = 0.456 mW/g; SAR(10 g) = 0.288 mW/g**
Maximum value of SAR (measured) = 0.532 mW/g




0 dB = 0.532mW/g

Test Laboratory: UnionTrust Date: 2019/5/23

## P05_WCDMA V_RMC12.2K_Left Cheek_4233

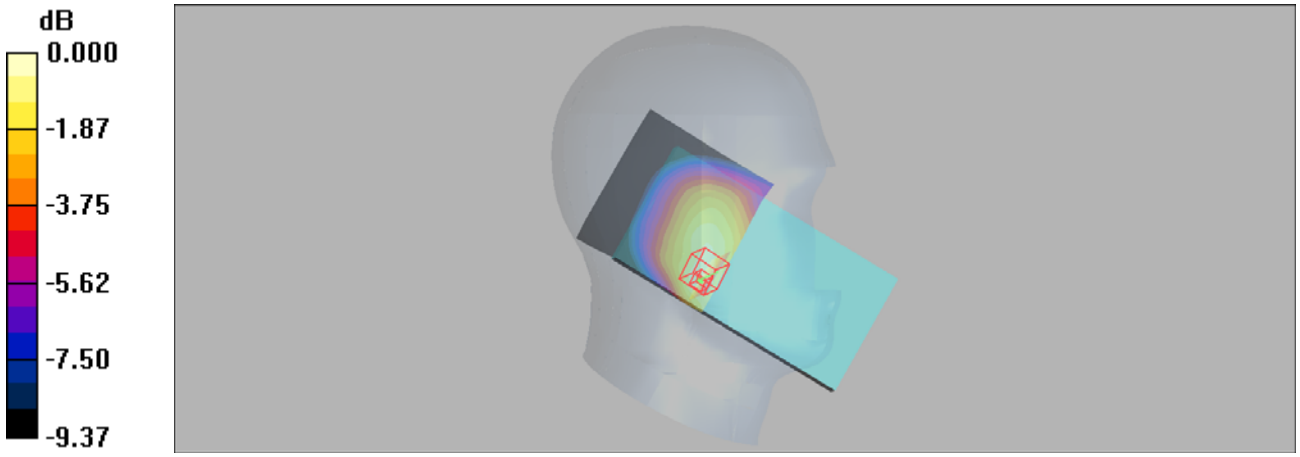
### DUT: EUT

Communication System: WCDMA Band V; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: H850 Medium parameters used: f = 847 MHz; $\sigma$ = 0.909 mho/m; $\varepsilon_r$ = 41.8; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.12, 6.12, 6.12); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x71x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.222 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.76 V/m; Power Drift = 0.055 dB
Peak SAR (extrapolated) = 0.280 W/kg
**SAR(1 g) = 0.195 mW/g; SAR(10 g) = 0.145 mW/g**
Maximum value of SAR (measured) = 0.225 mW/g




0 dB = 0.225mW/g

Test Laboratory: UnionTrust Date: 2019/5/26

## P06_LTE 2_QPSK20M_Left Cheek_18900_1RB_50 Offset

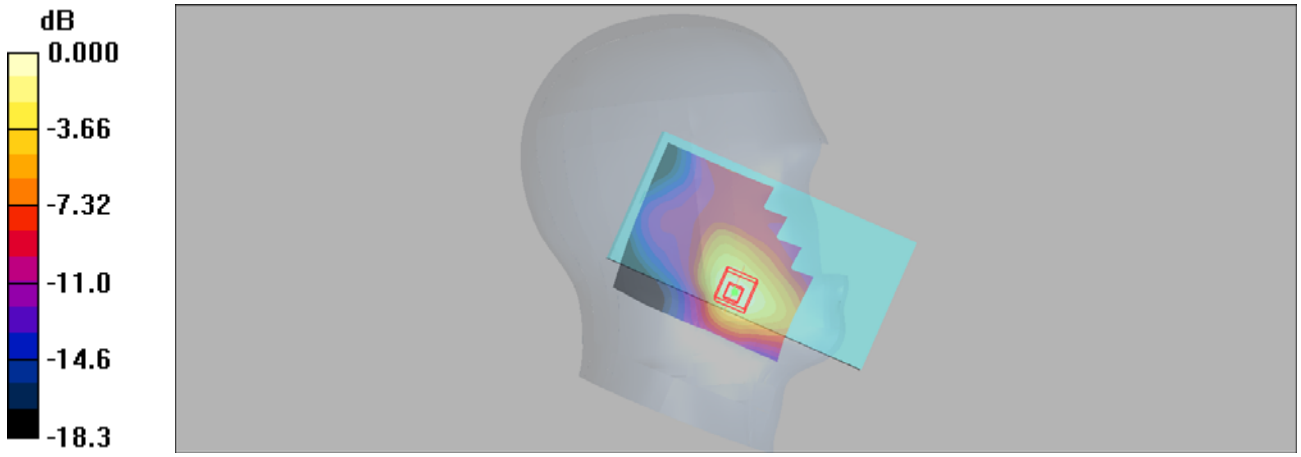
**DUT: EUT**

Communication System: LTE Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: H1900 Medium parameters used: f = 1880 MHz; $\sigma$ = 1.42 mho/m; $\varepsilon_r$ = 41.1; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(5.06, 5.06, 5.06); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.369 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.02 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.490 W/kg
**SAR(1 g) = 0.299 mW/g; SAR(10 g) = 0.174 mW/g**
Maximum value of SAR (measured) = 0.364 mW/g




0 dB = 0.364mW/g

# P07_LTE 4_QPSK20M_Left Cheek_20175_1RB_50 Offset

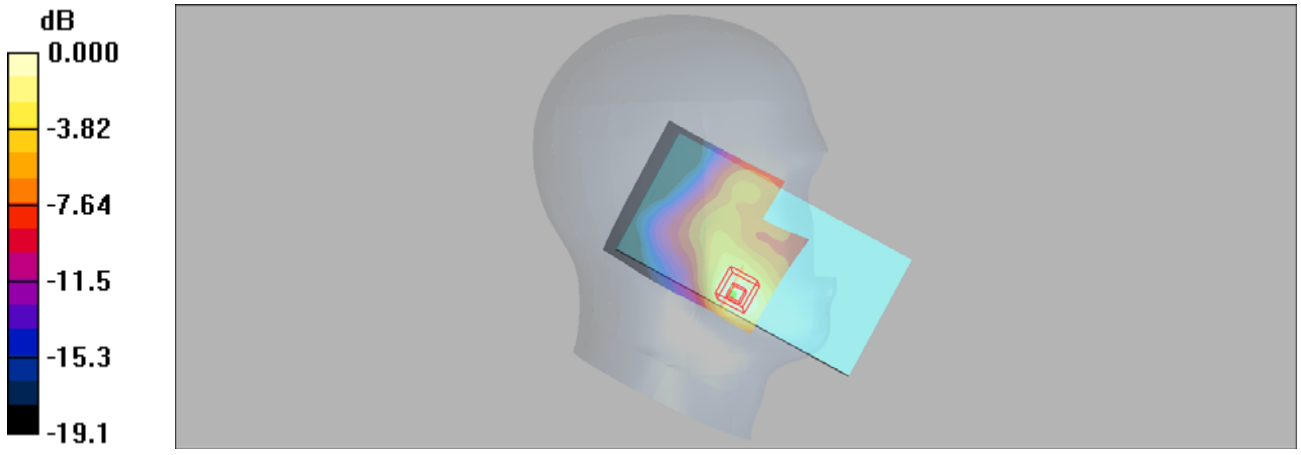
## DUT: EUT

Communication System: LTE Band 4&20M; Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: H1750 Medium parameters used (interpolated): f = 1732.5 MHz; $\sigma$ = 1.37 mho/m; $\varepsilon_r$ = 39.5; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(5.36, 5.36, 5.36); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.455 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.79 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.544 W/kg
**SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.231 mW/g**
Maximum value of SAR (measured) = 0.431 mW/g




0 dB = 0.431mW/g

Test Laboratory: UnionTrust Date: 2019/5/23

## P08_LTE 5_QPSK10M_Left Cheek_20600_1RB_24 Offset

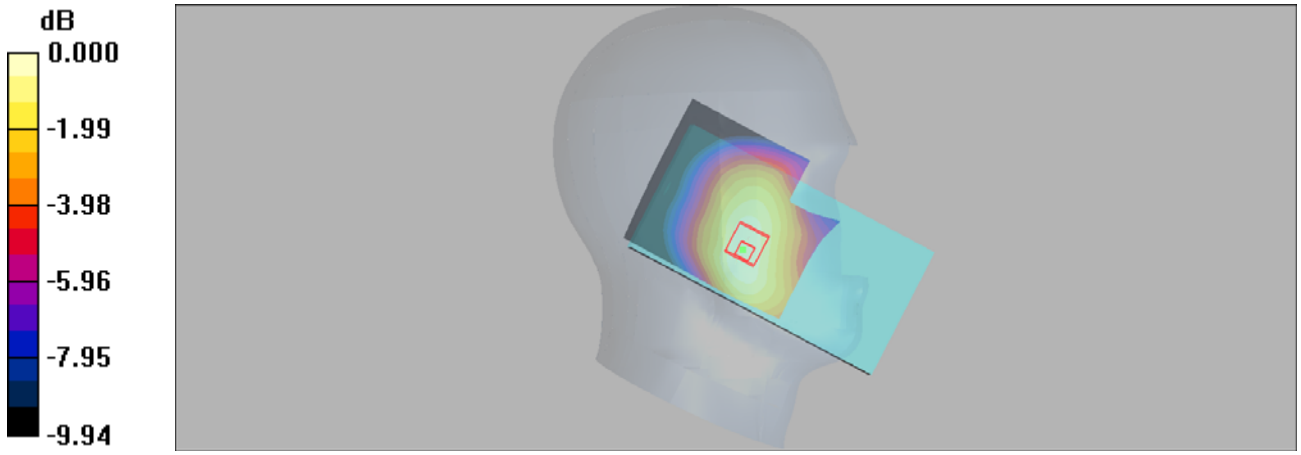
**DUT: EUT**

Communication System: LTE Band5; Frequency: 844 MHz;Duty Cycle: 1:1
Medium: H900 Medium parameters used: f = 844 MHz; $\sigma$ = 0.906 mho/m; $\varepsilon_r$ = 41.8; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.12, 6.12, 6.12); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.201 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.37 V/m; Power Drift = 0.091 dB
Peak SAR (extrapolated) = 0.231 W/kg
**SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.138 mW/g**
Maximum value of SAR (measured) = 0.199 mW/g




0 dB = 0.199mW/g

Test Laboratory: UnionTrust Date: 2019/5/31

## P09_LTE 7_QPSK20M_Right Cheek_21350_1RB_50 Offset

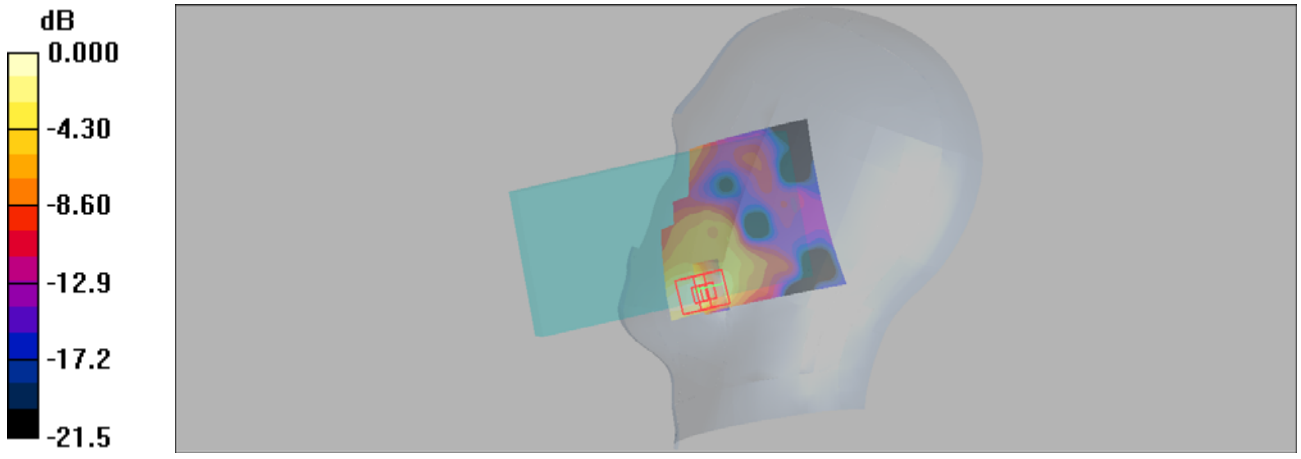
**DUT: EUT**

Communication System: LTE Band 7; Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: H2600 Medium parameters used: f = 2560 MHz; $\sigma$ = 2.01 mho/m; $\varepsilon_r$ = 37.8; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.48, 4.48, 4.48); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x81x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.064 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.17 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.097 W/kg
**SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.027 mW/g**
Maximum value of SAR (measured) = 0.063 mW/g




0 dB = 0.063mW/g

Test Laboratory: UnionTrust Date: 2019/5/25

## P10_LTE 12_QPSK10M_Left Cheek_23095_1RB_24 Offset

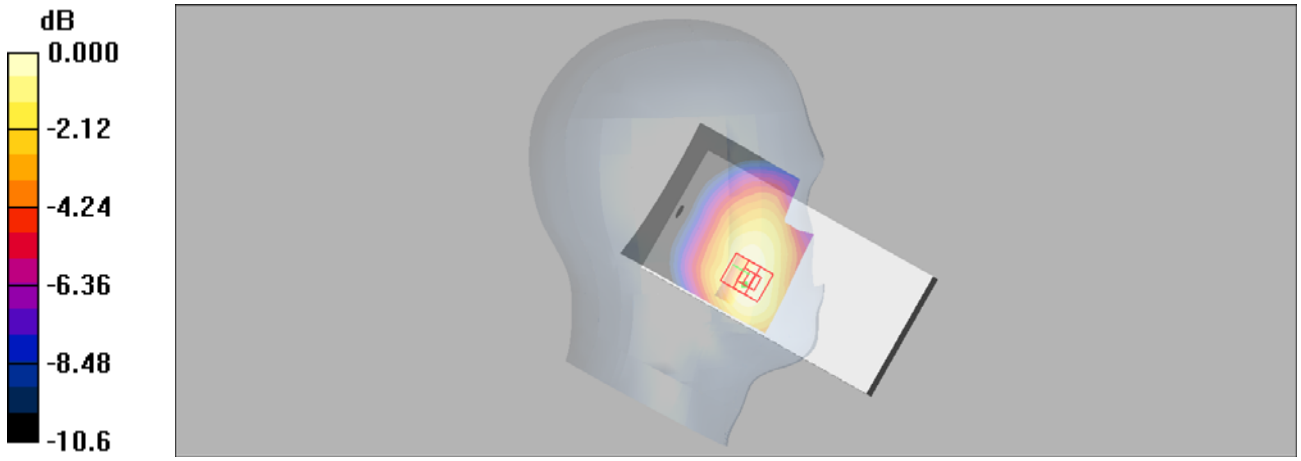
**DUT: EUT**

Communication System: LTE Band 12; Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium: H750 Medium parameters used (interpolated): f = 707.5 MHz; $\sigma$ = 0.861 mho/m; $\varepsilon_r$ = 40.8; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.22, 6.22, 6.22); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.126 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.88 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.144 W/kg
**SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.088 mW/g**
Maximum value of SAR (measured) = 0.125 mW/g




0 dB = 0.125mW/g

Test Laboratory: UnionTrust Date: 2019/5/30

## P24_802.11b_Left Cheek_11

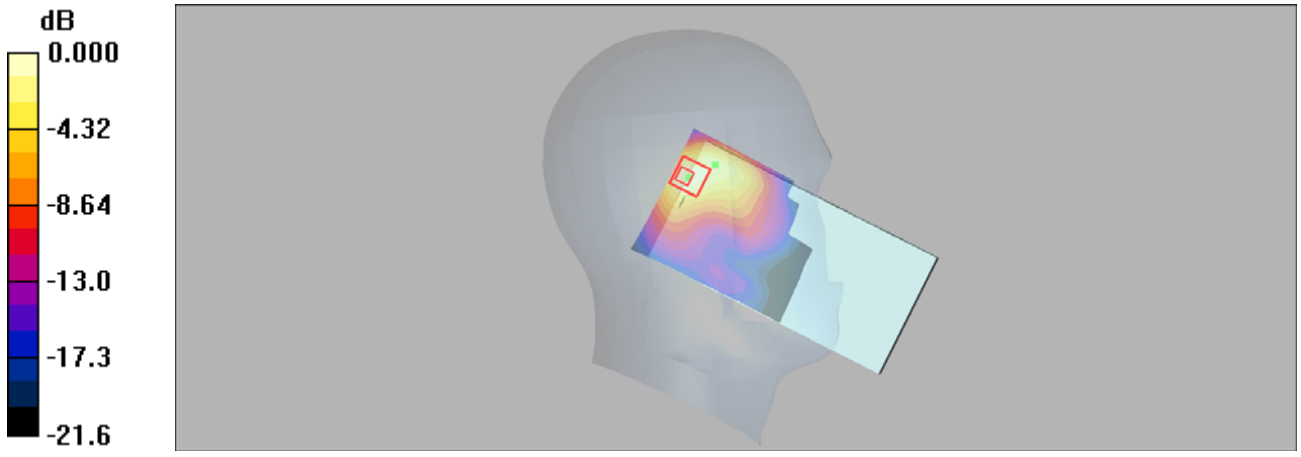
### DUT: EUT

Communication System: Wlan 802.11b; Frequency: 2462 MHz;Duty Cycle: 1:1
Medium: H2450 Medium parameters used: f = 2462 MHz; $\sigma$ = 1.87 mho/m; $\varepsilon_r$ = 37.9; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.57, 4.57, 4.57); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (81x101x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 1.03 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.2 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.82 W/kg
**SAR(1 g) = 0.809 mW/g; SAR(10 g) = 0.384 mW/g**
Maximum value of SAR (measured) = 1.01 mW/g




0 dB = 1.01mW/g

Test Laboratory: UnionTrust Date: 2019/5/22

## P11_GSM850_GPRS12_Rear Face_1cm_128

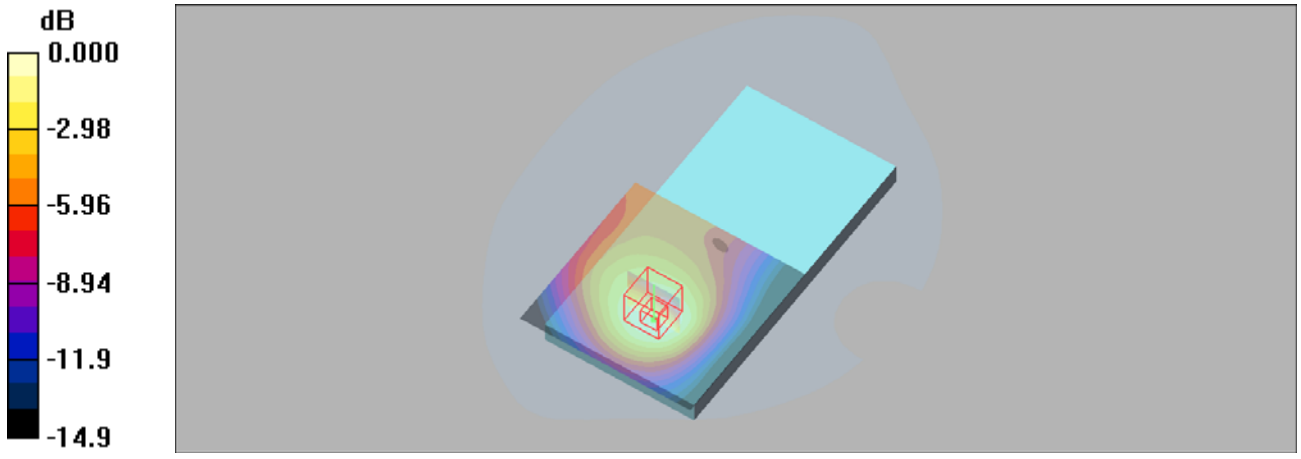
**DUT: EUT**

Communication System: GPRS 850-4solt; Frequency: 824.2 MHz;Duty Cycle: 1:2
Medium: B835 Medium parameters used (interpolated): f = 824.2 MHz; $\sigma$ = 0.986 mho/m; $\varepsilon_r$ = 56.5; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.18, 6.18, 6.18); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x71x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.961 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.0 V/m; Power Drift = -0.018 dB
Peak SAR (extrapolated) = 1.21 W/kg
**SAR(1 g) = 0.794 mW/g; SAR(10 g) = 0.514 mW/g**
Maximum value of SAR (measured) = 0.932 mW/g




0 dB = 0.932mW/g

Test Laboratory: UnionTrust Date: 2019/5/21

**P12_GSM1900_GPRS12_Rear Face_1cm_512**

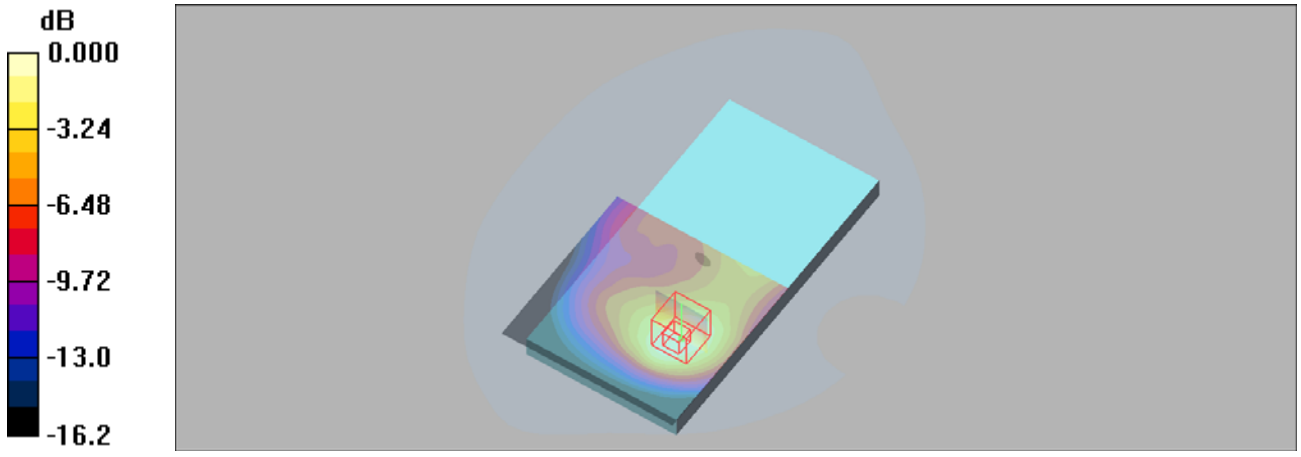
**DUT: EUT**

Communication System: GPRS1900-4slots; Frequency: 1850.2 MHz;Duty Cycle: 1:2
Medium: B1900 Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma$ = 1.49 mho/m; $\varepsilon_r$ = 52.7; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.79, 4.79, 4.79); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x71x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.444 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.38 V/m; Power Drift = -0.036 dB
Peak SAR (extrapolated) = 0.624 W/kg
**SAR(1 g) = 0.358 mW/g; SAR(10 g) = 0.210 mW/g**
Maximum value of SAR (measured) = 0.431 mW/g




0 dB = 0.431mW/g

Test Laboratory: UnionTrust Date: 2019/5/21

## P13_WCDMA II_RMC12.2K_Rear Face_1cm_9262

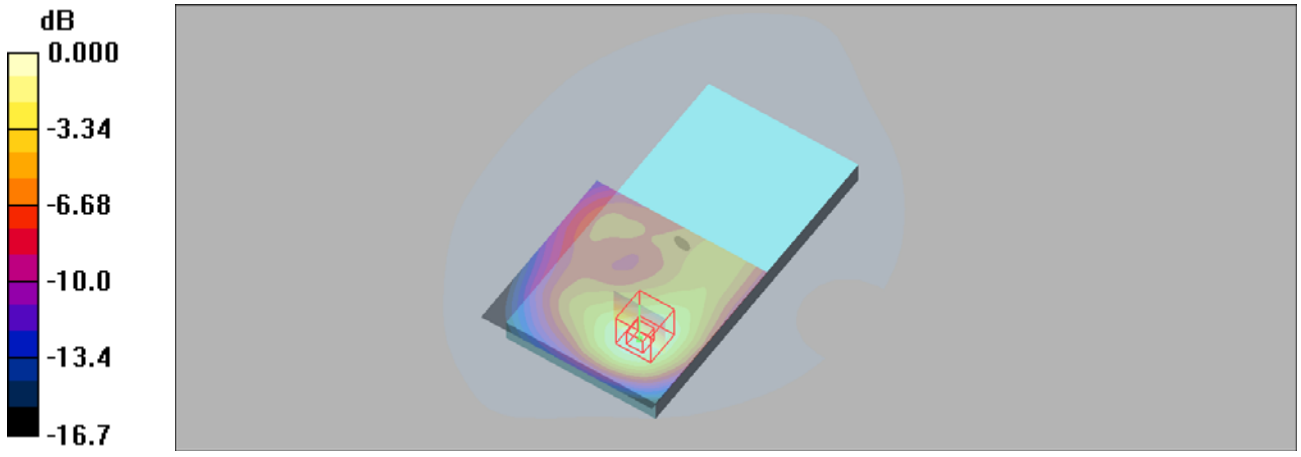
### DUT: EUT

Communication System: WCDMA Band II; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: B1900 Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma$ = 1.49 mho/m; $\varepsilon_r$ = 52.7; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.79, 4.79, 4.79); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x71x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.691 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.94 V/m; Power Drift = -0.052 dB
Peak SAR (extrapolated) = 0.943 W/kg
**SAR(1 g) = 0.547 mW/g; SAR(10 g) = 0.326 mW/g**
Maximum value of SAR (measured) = 0.664 mW/g




0 dB = 0.664mW/g

Test Laboratory: UnionTrust Date: 2019/5/20

## P14_WCDMA IV_RMC12.2K_Rear Side_1cm_1513

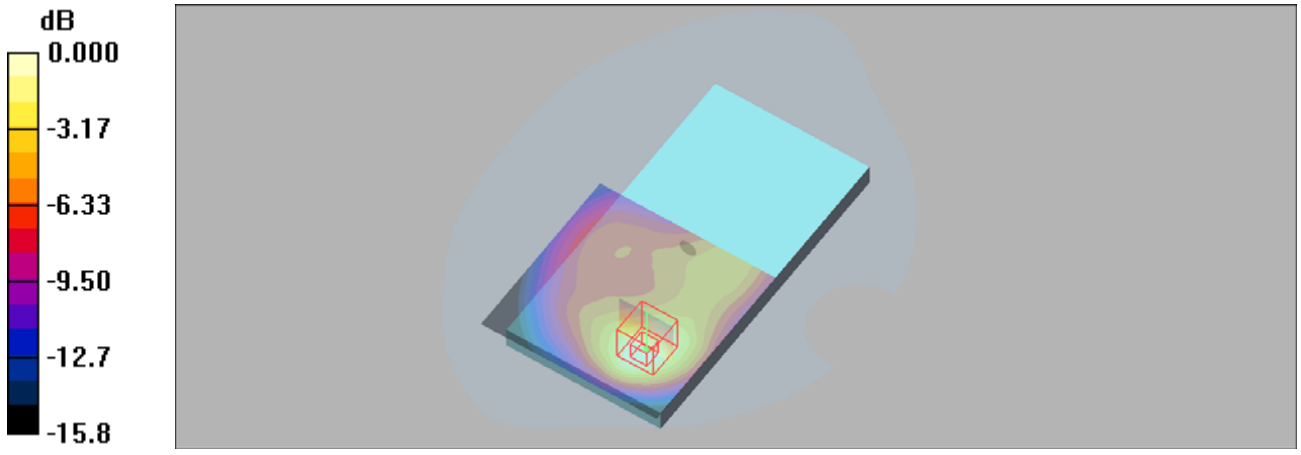
### DUT: EUT

Communication System: WCDMA Band IV; Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium: B1750 Medium parameters used: f = 1753 MHz; $\sigma$ = 1.47 mho/m; $\varepsilon_r$ = 54.8; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.95, 4.95, 4.95); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x71x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.751 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.67 V/m; Power Drift = -0.014 dB
Peak SAR (extrapolated) = 1.06 W/kg
**SAR(1 g) = 0.612 mW/g; SAR(10 g) = 0.354 mW/g**
Maximum value of SAR (measured) = 0.738 mW/g




0 dB = 0.738mW/g

Test Laboratory: UnionTrust Date: 2019/5/22

## P15_WCDMA V_RMC12.2K_Rear Face_1cm_4233

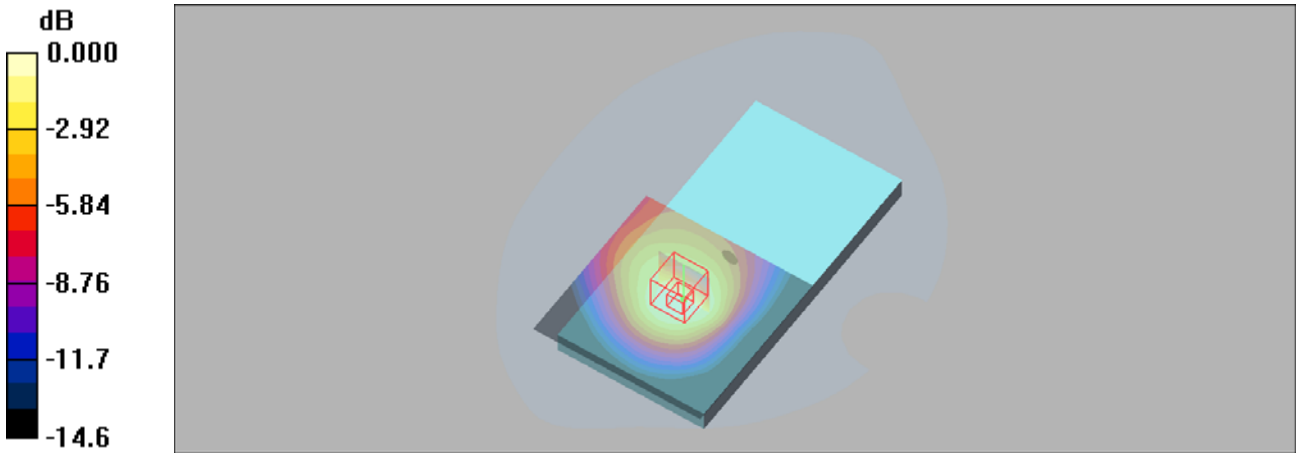
### DUT: EUT

Communication System: WCDMA Band V; Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium: B835 Medium parameters used: f = 847 MHz; $\sigma$ = 1.01 mho/m; $\varepsilon_r$ = 56.2; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.18, 6.18, 6.18); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x71x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.483 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.1 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 0.614 W/kg
**SAR(1 g) = 0.404 mW/g; SAR(10 g) = 0.260 mW/g**
Maximum value of SAR (measured) = 0.468 mW/g




0 dB = 0.468mW/g

Test Laboratory: UnionTrust Date: 2019/5/21

## P16_LTE 2_QPSK20M_Rear Face_1cm_18900_1 RB_50 offset

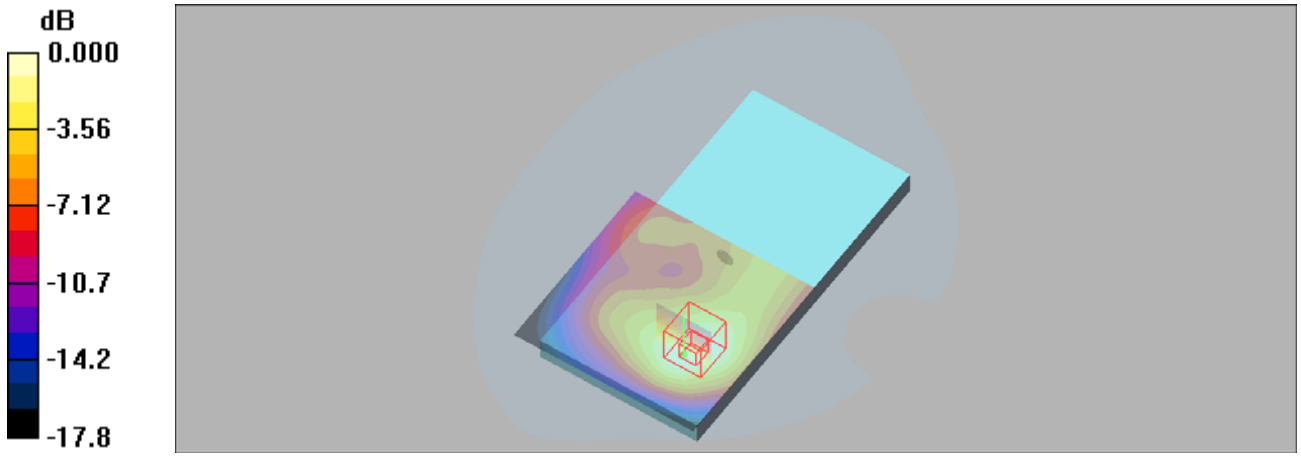
### DUT: EUT

Communication System: LTE Band 2; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: B1900 Medium parameters used: f = 1880 MHz; $\sigma$ = 1.52 mho/m; $\varepsilon_r$ = 52.6; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.79, 4.79, 4.79); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x71x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.424 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.05 V/m; Power Drift = -0.070 dB
Peak SAR (extrapolated) = 0.564 W/kg
**SAR(1 g) = 0.417 mW/g; SAR(10 g) = 0.247 mW/g**
Maximum value of SAR (measured) = 0.395 mW/g




0 dB = 0.395mW/g

Test Laboratory: UnionTrust Date: 2019/5/20

## P17_LTE 4_QPSK20M_Rear Face_1cm_20175_1 RB_50 offset

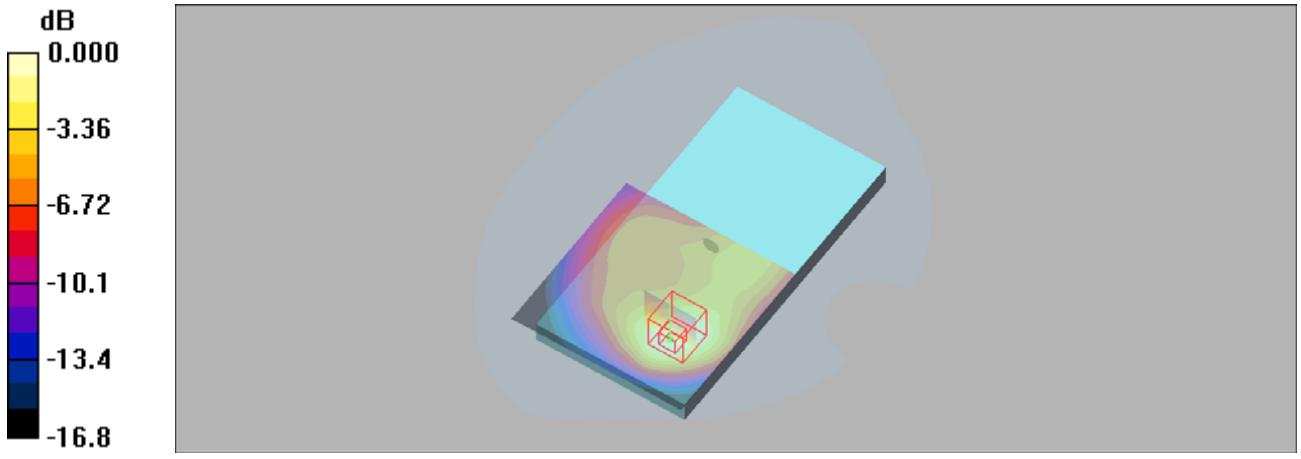
**DUT: EUT**

Communication System: LTE Band 4&20M; Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium: B1750 Medium parameters used (interpolated): f = 1732.5 MHz; $\sigma$ = 1.44 mho/m; $\varepsilon_r$ = 54.8; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.95, 4.95, 4.95); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x71x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.03 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.2 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.21 W/kg
**SAR(1 g) = 0.694 mW/g; SAR(10 g) = 0.401 mW/g**
Maximum value of SAR (measured) = 0.860 mW/g




0 dB = 0.860mW/g

Test Laboratory: UnionTrust Date: 2019/5/22

## P18_LTE 5_QPSK10M_Rear Face_1cm_20600_1 RB_24 offset

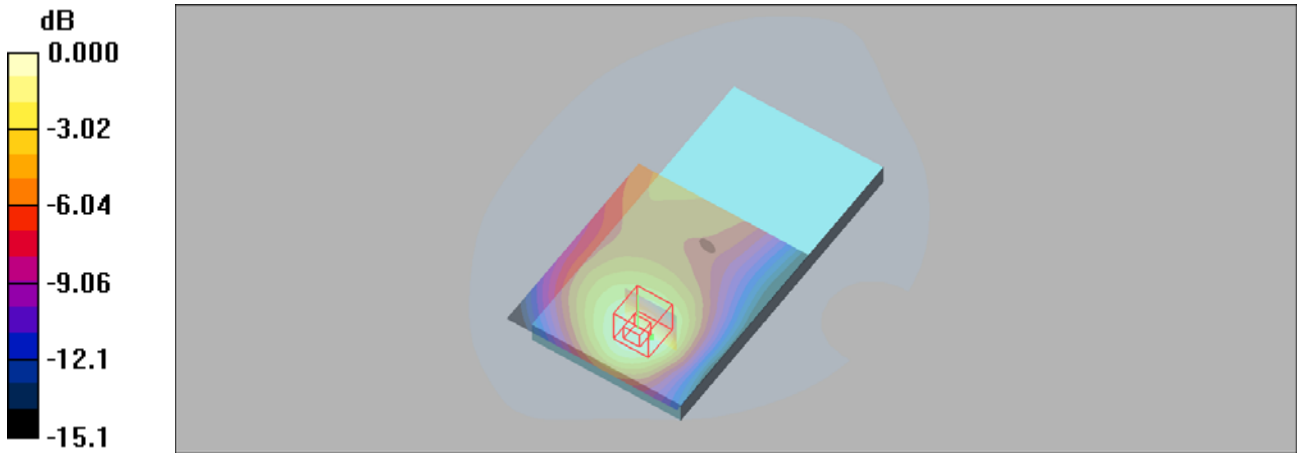
**DUT: EUT**

Communication System: LTE Band5; Frequency: 844 MHz;Duty Cycle: 1:1
Medium: B835 Medium parameters used: f = 844 MHz; $\sigma$ = 1 mho/m; $\varepsilon_r$ = 56.3; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.18, 6.18, 6.18); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.465 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.2 V/m; Power Drift = 0.001 dB
Peak SAR (extrapolated) = 0.578 W/kg
**SAR(1 g) = 0.384 mW/g; SAR(10 g) = 0.246 mW/g**
Maximum value of SAR (measured) = 0.444 mW/g




0 dB = 0.444mW/g

# P19_LTE 7_QPSK20M_Bottom Side_1cm_21350_1 RB_50 offset

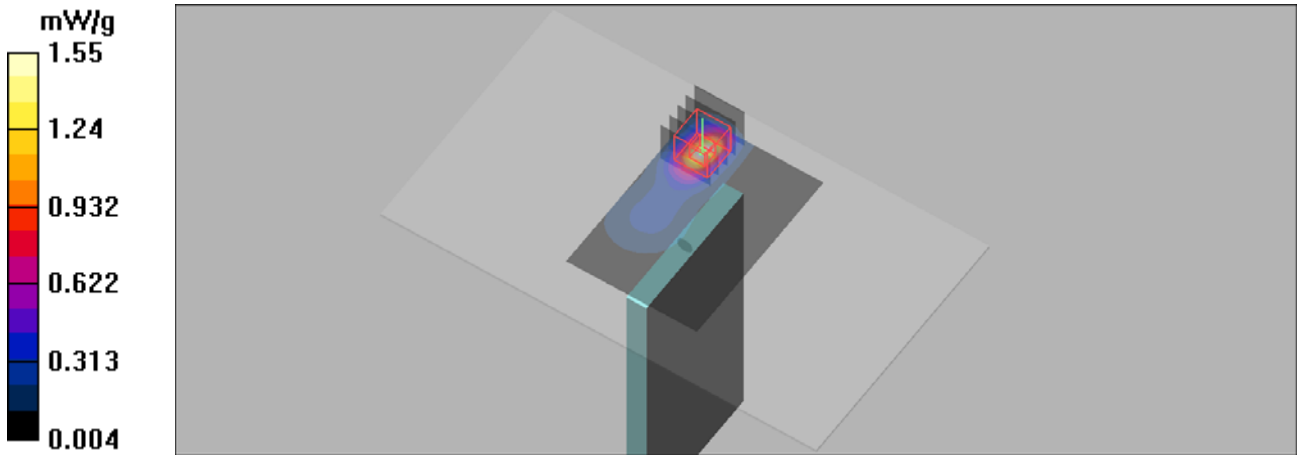
## DUT: EUT

Communication System: LTE Band 7; Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: B2600 Medium parameters used: f = 2560 MHz; $\sigma$ = 2.15 mho/m; $\varepsilon_r$ = 52.5; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.24, 4.24, 4.24); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1125
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (71x101x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 1.55 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.15 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.53 W/kg
**SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.532 mW/g**
Maximum value of SAR (measured) = 1.62 mW/g



Test Laboratory: UnionTrust Date: 2019/5/26

## P20_LTE 12_QPSK10M_Rear Face_1cm_23095_1RB_24 offset

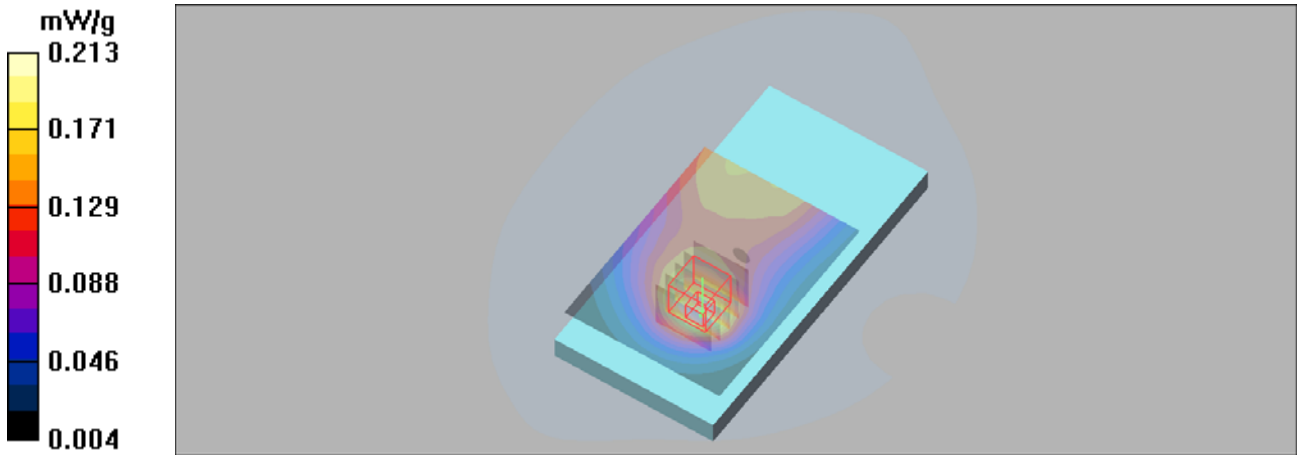
**DUT: EUT**

Communication System: LTE Band 12; Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium: B750 Medium parameters used (interpolated): f = 707.5 MHz; $\sigma$ = 0.932 mho/m; $\varepsilon_r$ = 55.8; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(6.4, 6.4, 6.4); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: SAM 2; Type: QD 000 P40 CB; Serial: TP-1376
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.213 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.8 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 0.278 W/kg
**SAR(1 g) = 0.173 mW/g; SAR(10 g) = 0.113 mW/g**
Maximum value of SAR (measured) = 0.201 mW/g



Test Laboratory: UnionTrust Date: 2019/5/30

## P22_802.11b_Rear Face_1cm_11

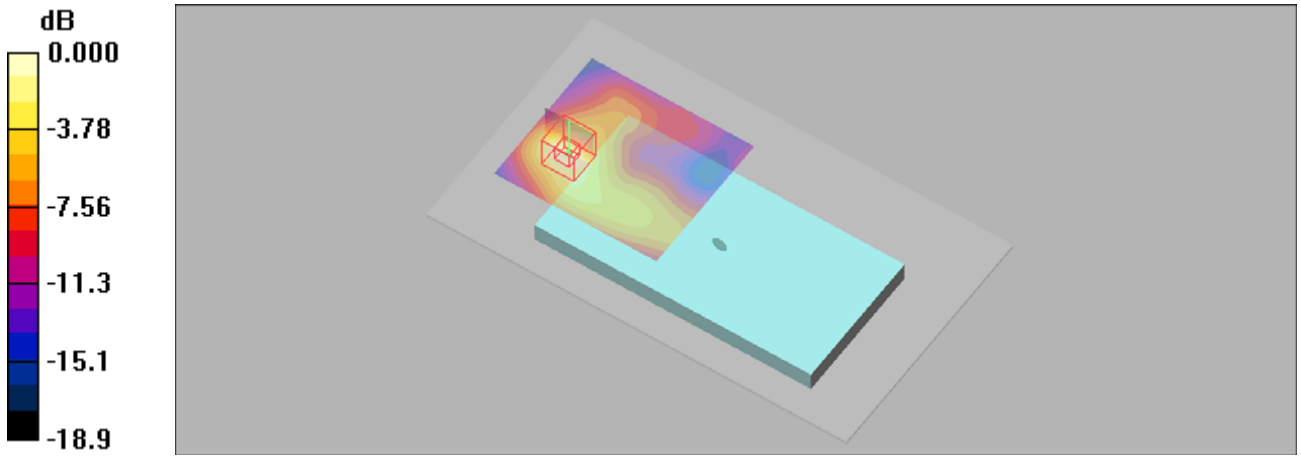
### DUT: EUT

Communication System: Wlan 802.11b; Frequency: 2462 MHz;Duty Cycle: 1:1
Medium: B2450 Medium parameters used: f = 2462 MHz; $\sigma$ = 2.03 mho/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.47, 4.47, 4.47); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1125
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (91x81x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 0.221 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.14 V/m; Power Drift = -0.007 dB
Peak SAR (extrapolated) = 0.331 W/kg
**SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.083 mW/g**
Maximum value of SAR (measured) = 0.213 mW/g




0 dB = 0.213mW/g

Test Laboratory: UnionTrust Date: 2019/5/29

## P19_LTE 7_QPSK20M_Rear Face_1cm_21350_1 RB_50 offset

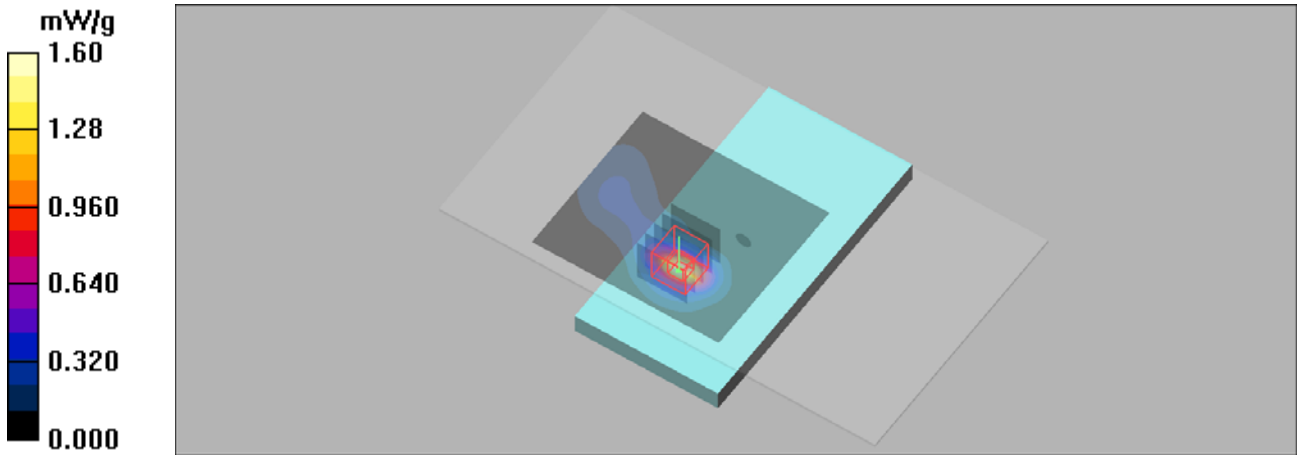
### DUT: EUT

Communication System: LTE Band 7; Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: B2600 Medium parameters used: f = 2560 MHz; $\sigma$ = 2.15 mho/m; $\varepsilon_r$ = 52.5; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.24, 4.24, 4.24); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1125
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (81x71x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 1.60 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.86 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 2.51 W/kg
**SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.651 mW/g**
Maximum value of SAR (measured) = 1.53 mW/g



Test Laboratory: UnionTrust Date: 2019/5/29

## P19_LTE 7_QPSK20M_Rear Face_0cm_21350_1 RB_50 offset

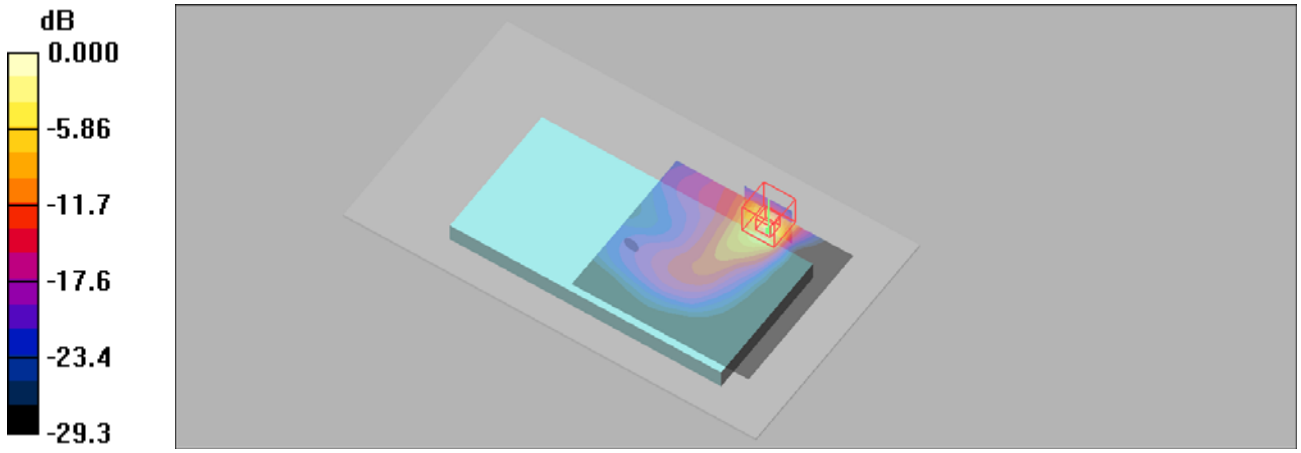
**DUT: EUT**

Communication System: LTE Band 7; Frequency: 2560 MHz;Duty Cycle: 1:1
Medium: B2600 Medium parameters used: f = 2560 MHz; $\sigma$ = 2.15 mho/m; $\varepsilon_r$ = 52.5; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: ES3DV3 - SN3090; ConvF(4.24, 4.24, 4.24); Calibrated: 2019/4/12
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn662; Calibrated: 2019/4/11
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1125
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**Test/Area Scan (81x71x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (interpolated) = 4.59 mW/g

**Test/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.38 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 10.5 W/kg
**SAR(1 g) = 4.19 mW/g; SAR(10 g) = 1.56 mW/g**
Maximum value of SAR (measured) = 5.77 mW/g




0 dB = 5.77mW/g

Test Laboratory: UnionTrust Date: 6/24/2019

## P01 WLAN 5G_802.11a_Left Cheek_Ch36

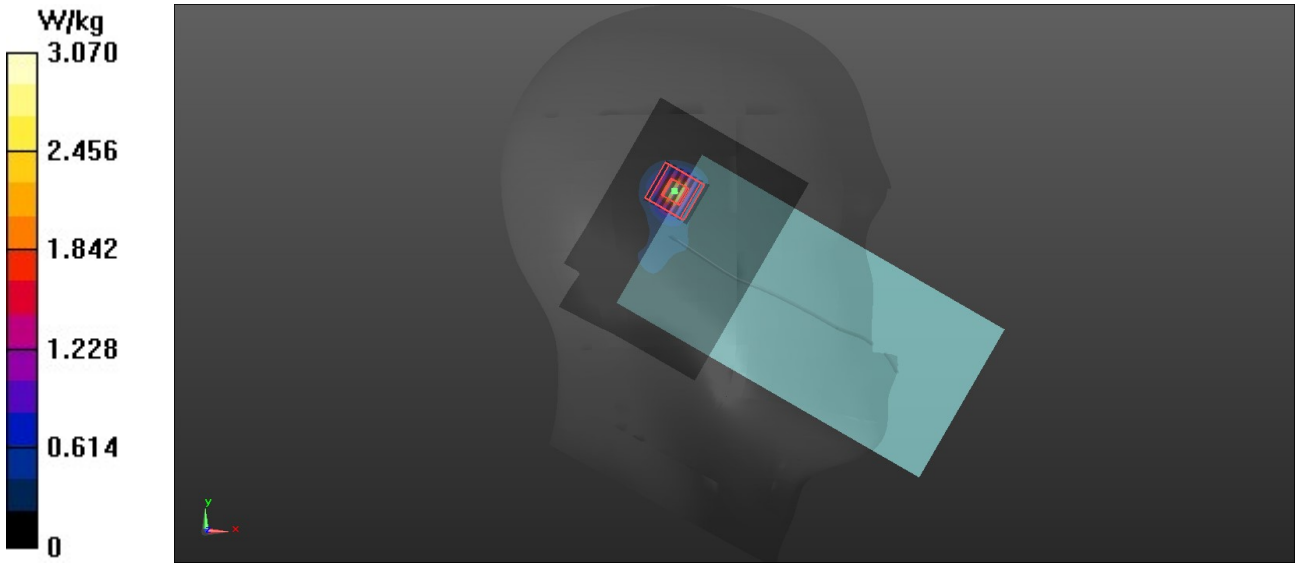
### DUT: X150

Communication System: 802.11a; Frequency: 5180 MHz;Duty Cycle: 1:1
Medium: H5G Medium parameters used: f = 5180 MHz; $\sigma$ = 4.659 S/m; $\varepsilon_r$ = 36.501; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: EX3DV4 - SN7351; ConvF(5.4, 5.4, 5.4); Calibrated: 12/14/2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 4/23/2019
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**- Area Scan (121x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 3.07 W/kg

**- Zoom Scan (7x7x6)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 9.175 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 4.24 W/kg
**SAR(1 g) = 0.941 W/kg; SAR(10 g) = 0.259 W/kg**
Maximum value of SAR (measured) = 3.03 W/kg



Test Laboratory: UnionTrust Date: 6/24/2019

## P02 WLAN 5G_802.11a_Left Cheek_Ch140

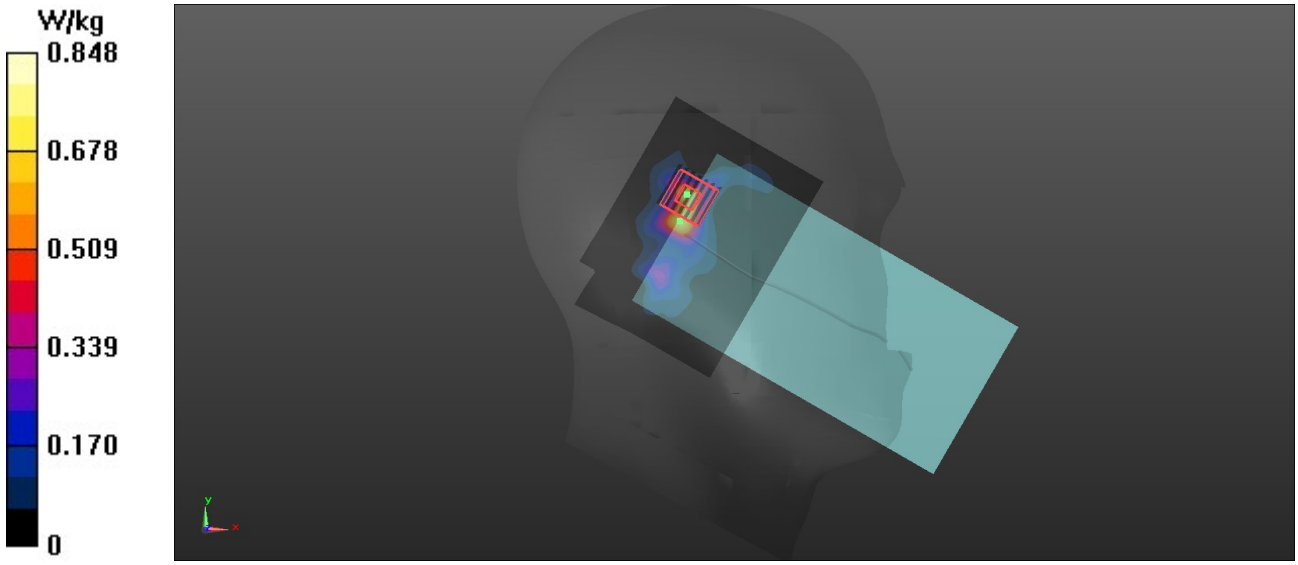
### DUT: X150

Communication System: 802.11a; Frequency: 5700 MHz;Duty Cycle: 1:1
Medium: H5G Medium parameters used: f = 5700 MHz; $\sigma$ = 5.131 S/m; $\varepsilon_r$ = 35.761; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: EX3DV4 - SN7351; ConvF(4.77, 4.77, 4.77); Calibrated: 12/14/2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 4/23/2019
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**- Area Scan (121x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.848 W/kg

**- Zoom Scan (7x7x6)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 9.877 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 2.15 W/kg
**SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.174 W/kg**
Maximum value of SAR (measured) = 0.831 W/kg



Test Laboratory: UnionTrust Date: 6/24/2019

## P03 WLAN 5G_802.11a_Left Cheek_Ch149

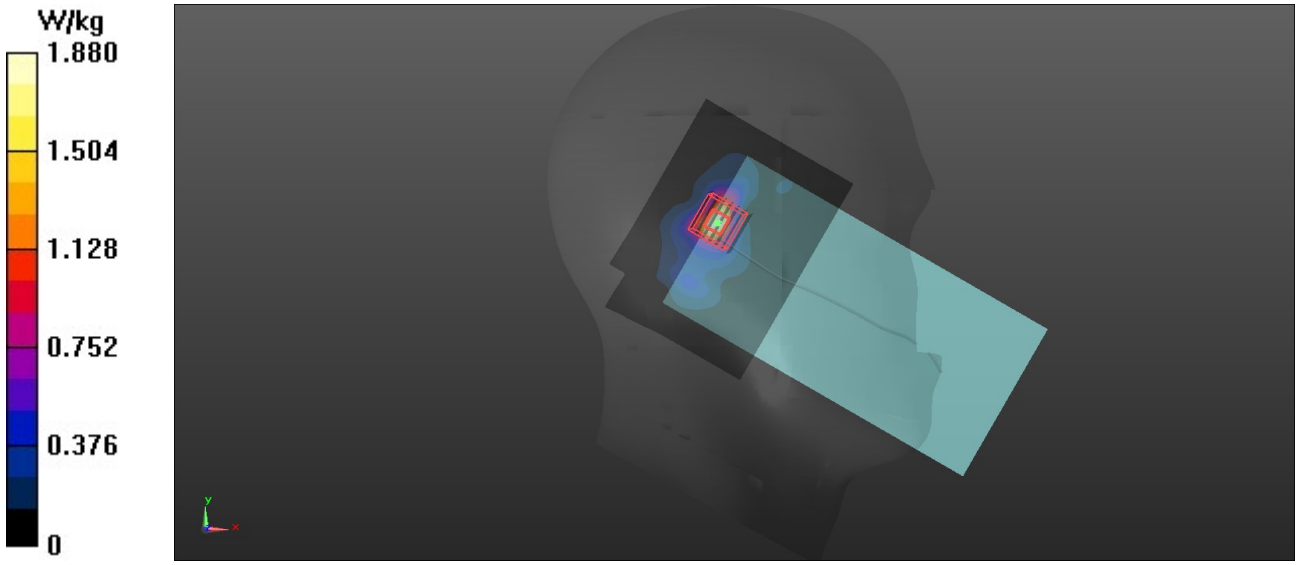
### DUT: X150

Communication System: 802.11a; Frequency: 5745 MHz;Duty Cycle: 1:1
Medium: H5G Medium parameters used: f = 5745 MHz; $\sigma$ = 5.221 S/m; $\varepsilon_r$ = 35.652; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: EX3DV4 - SN7351; ConvF(4.9, 4.9, 4.9); Calibrated: 12/14/2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 4/23/2019
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**- Area Scan (121x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.88 W/kg

**- Zoom Scan (7x7x6)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 14.27 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.22 W/kg
**SAR(1 g) = 0.780 W/kg; SAR(10 g) = 0.241 W/kg**
Maximum value of SAR (measured) = 1.88 W/kg



Test Laboratory: UnionTrust Date: 6/25/2019

## P04 WLAN 5G_802.11a_Front Face_1cm_Ch36

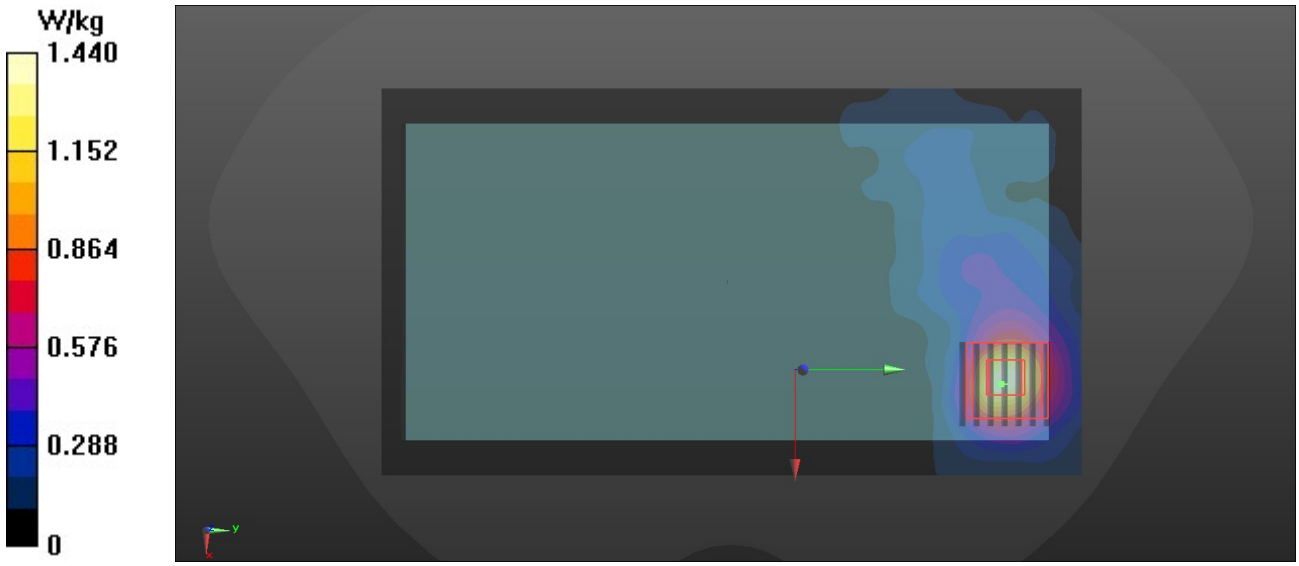
### DUT: X150

Communication System: 802.11a; Frequency: 5180 MHz;Duty Cycle: 1:1
Medium: B5G Medium parameters used: f = 5180 MHz; $\sigma$ = 5.413 S/m; $\varepsilon_r$ = 48.443; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: EX3DV4 - SN7351; ConvF(4.49, 4.49, 4.49); Calibrated: 12/14/2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 4/23/2019
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**- Area Scan (111x201x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.44 W/kg

**- Zoom Scan (7x7x6)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 2.152 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.96 W/kg
**SAR(1 g) = 0.595 W/kg; SAR(10 g) = 0.252 W/kg**
Maximum value of SAR (measured) = 1.43 W/kg



Test Laboratory: UnionTrust Date: 6/25/2019

## P05 WLAN 5G_802.11a_Rear Face_1cm_Ch140

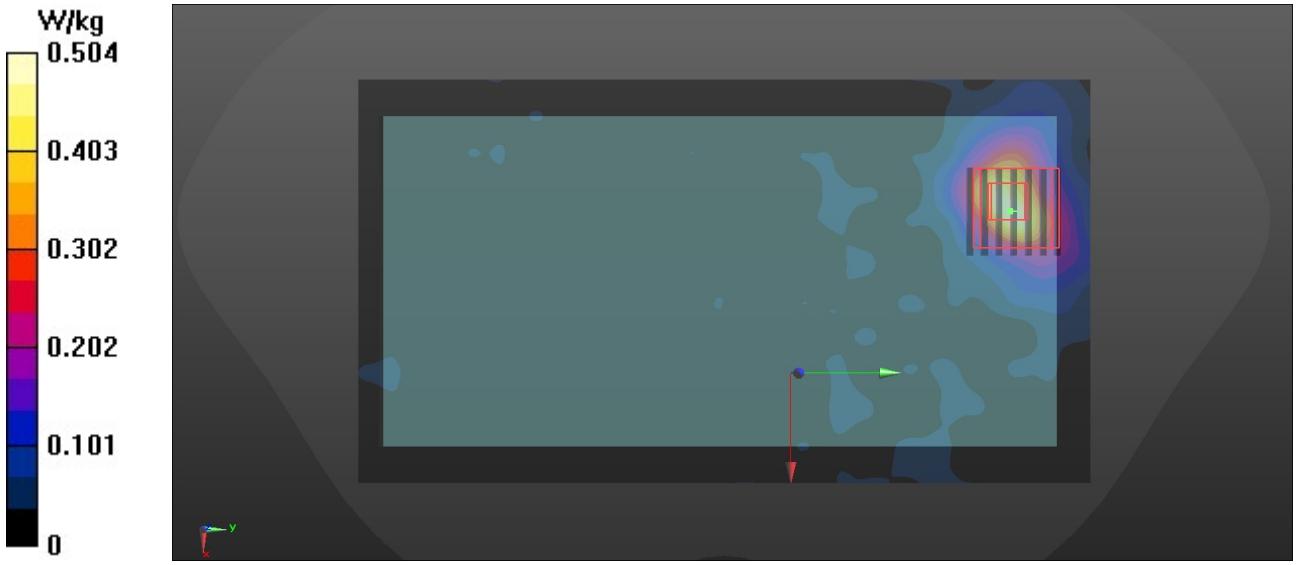
### DUT: X150

Communication System: 802.11a; Frequency: 5700 MHz;Duty Cycle: 1:1
Medium: B5G Medium parameters used: f = 5700 MHz; $\sigma$ = 6.033 S/m; $\varepsilon_r$ = 47.629; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: EX3DV4 - SN7351; ConvF(3.91, 3.91, 3.91); Calibrated: 12/14/2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 4/23/2019
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**- Area Scan (111x201x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.504 W/kg

**- Zoom Scan (7x7x6)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.134 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.973 W/kg
**SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.084 W/kg**
Maximum value of SAR (measured) = 0.504 W/kg



Test Laboratory: UnionTrust Date: 6/25/2019

## P06 WLAN 5G_802.11a_Rear Face_1cm_Ch149

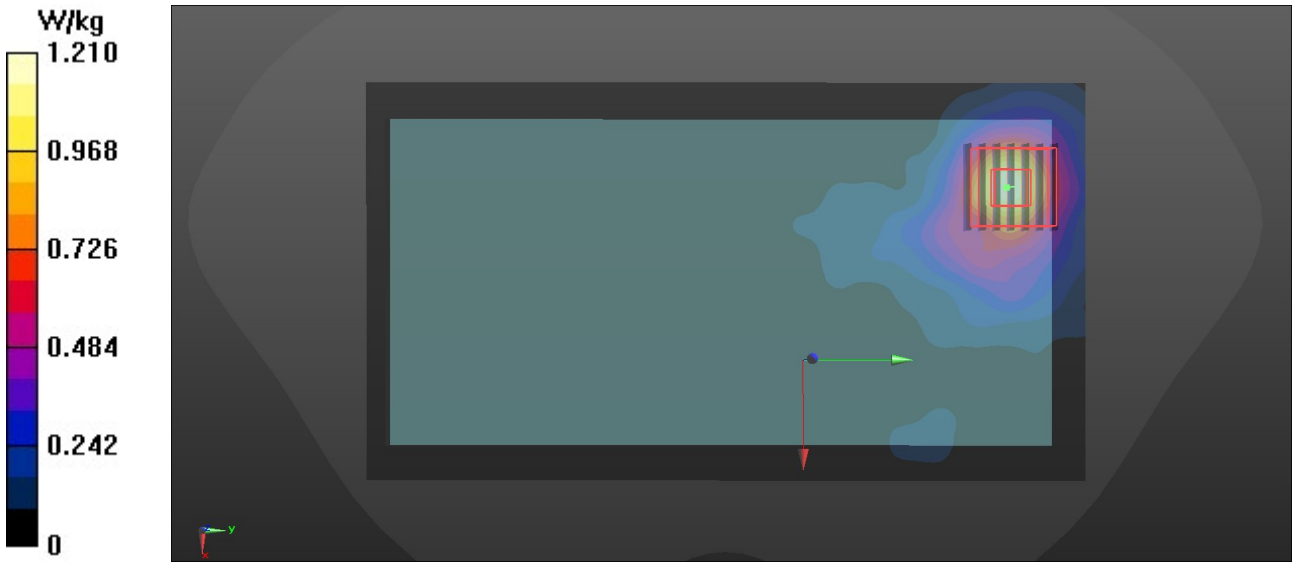
### DUT: X150

Communication System: 802.11a; Frequency: 5745 MHz;Duty Cycle: 1:1
Medium: B5G Medium parameters used: f = 5745 MHz; $\sigma$ = 6.162 S/m; $\varepsilon_r$ = 47.503; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: EX3DV4 - SN7351; ConvF(4.1, 4.1, 4.1); Calibrated: 12/14/2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 4/23/2019
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**- Area Scan (111x201x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.21 W/kg

**- Zoom Scan (7x7x6)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.544 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.89 W/kg
**SAR(1 g) = 0.549 W/kg; SAR(10 g) = 0.183 W/kg**
Maximum value of SAR (measured) = 1.07 W/kg



Test Laboratory: UnionTrust Date: 6/25/2019

## P07 WLAN 5G_802.11a_Top_0cm_Ch36

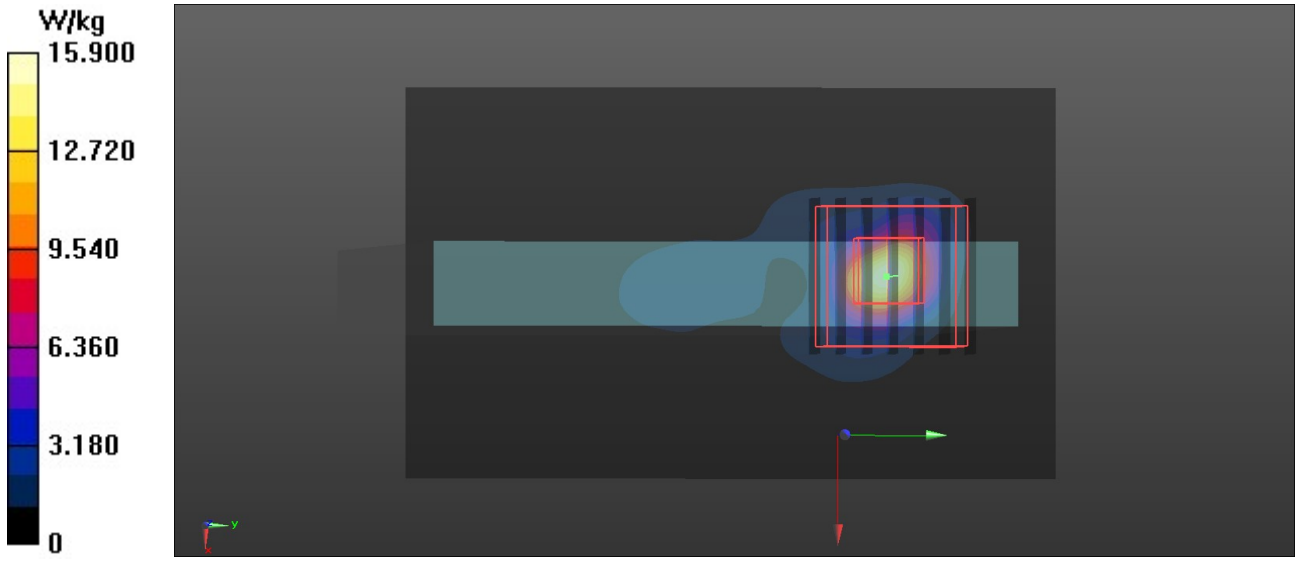
### DUT: X150

Communication System: 802.11a; Frequency: 5180 MHz;Duty Cycle: 1:1
Medium: B5G Medium parameters used: f = 5180 MHz; $\sigma$ = 5.413 S/m; $\varepsilon_r$ = 48.443; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: EX3DV4 - SN7351; ConvF(4.49, 4.49, 4.49); Calibrated: 12/14/2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 4/23/2019
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**- Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 15.9 W/kg

**- Zoom Scan (7x7x6)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 21.07 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 25.6 W/kg
**SAR(1 g) = 5.48 W/kg; SAR(10 g) = 1.49 W/kg**
Maximum value of SAR (measured) = 15.6 W/kg



Test Laboratory: UnionTrust Date: 6/25/2019

## P08 WLAN 5G_802.11a_Top_0cm_Ch140

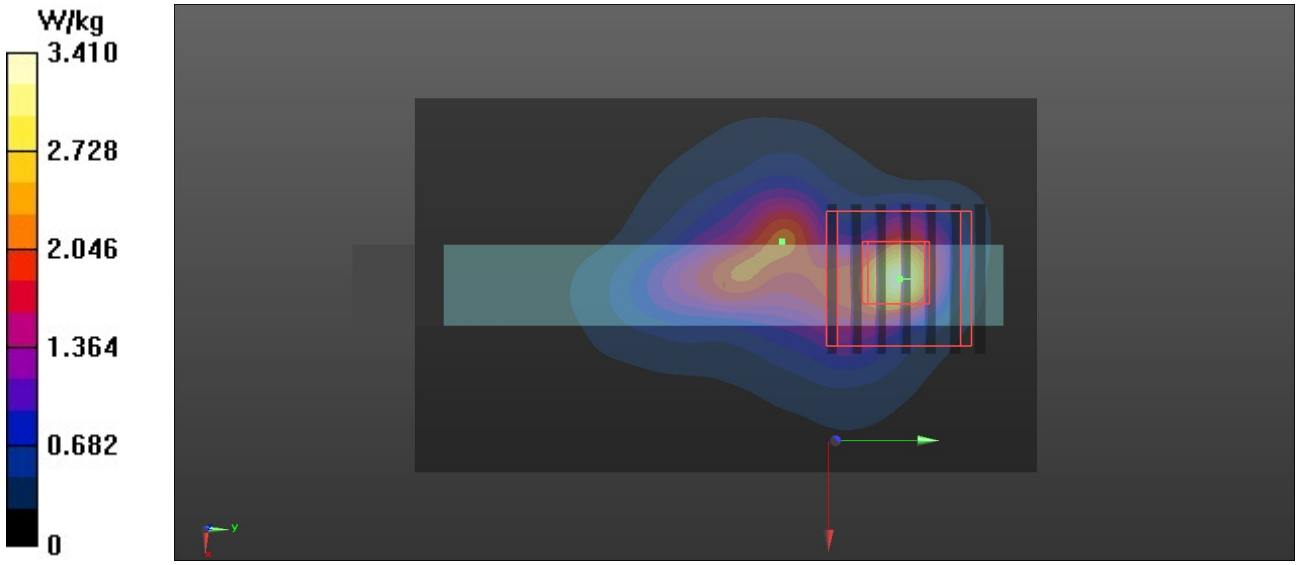
### DUT: X150

Communication System: 802.11a; Frequency: 5700 MHz;Duty Cycle: 1:1
Medium: B5G Medium parameters used: f = 5700 MHz; $\sigma$ = 6.033 S/m; $\varepsilon_r$ = 47.629; $\rho$ = 1000 kg/m$^3$

DASY4 Configuration:
- Probe: EX3DV4 - SN7351; ConvF(3.91, 3.91, 3.91); Calibrated: 12/14/2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 4/23/2019
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**- Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 3.41 W/kg

**- Zoom Scan (7x7x6)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 20.39 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 7.90 W/kg
**SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.357 W/kg**
Maximum value of SAR (measured) = 4.10 W/kg



Test Laboratory: UnionTrust Date: 6/25/2019

## P09 WLAN 5G_802.11a_Top_0cm_Ch149

### DUT: X150

Communication System: 802.11a; Frequency: 5745 MHz;Duty Cycle: 1:1
Medium: B5G Medium parameters used: f = 5745 MHz; $\sigma$ = 6.162 S/m; $\varepsilon_r$ = 47.503; $\rho$ = 1000 kg/m$^3$

DASY5 Configuration:
- Probe: EX3DV4 - SN7351; ConvF(4.1, 4.1, 4.1); Calibrated: 12/14/2018
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn679; Calibrated: 4/23/2019
- Phantom: SAM 1; Type: QD 000 P40 CB; Serial: TP/1378
- ; Postprocessing SW: SEMCAD, V1.8 Build 186

**- Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 11.7 W/kg

**- Zoom Scan (7x7x6)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 34.28 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 21.7 W/kg
**SAR(1 g) = 3.87 W/kg; SAR(10 g) = 1.04 W/kg**
Maximum value of SAR (measured) = 11.3 W/kg