

Appendix B:SAR Measurement results Plots

|                    |
|--------------------|
| Table of contents  |
| GSM850-Body        |
| GSM1900- Body      |
| UMTS Band II- Body |
| UMTS Band IV- Body |
| UMTS Band V- Body  |
| LTE Band 2- Body   |
| LTE Band 4- Body   |
| LTE Band 5- Body   |
| LTE Band 7- Body   |
| LTE Band 12- Body  |
| LTE Band 13- Body  |
| LTE Band 17- Body  |
| LTE Band 25- Body  |
| LTE Band 26- Body  |
| LTE Band 41- Body  |
| LTE Band 66- Body  |
| WIFI 2.4G- Body    |

Test Laboratory: CTI SAR Lab

## GSM850 190CH Back Side 10mm

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic GSM (0); Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.882$  S/m;  $\epsilon_r = 40.276$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(9.98, 9.98, 9.98); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0181 W/kg

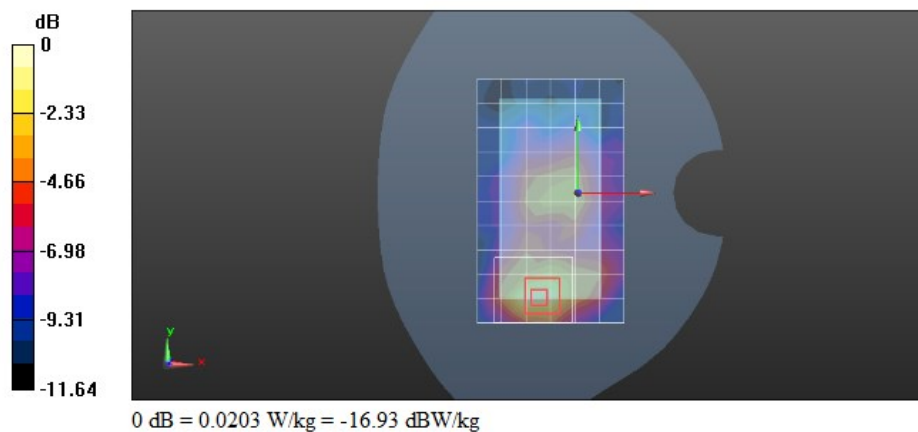
**Configuration/Head/Zoom Scan (7x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.386 V/m; Power Drift = 0.56 dB

Peak SAR (extrapolated) = 0.0260 W/kg

**SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00819 W/kg**

Maximum value of SAR (measured) = 0.0203 W/kg



Test Laboratory: CTI SAR Lab

### GSM1900 661CH Back Side 10mm

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.403$  S/m;  $\epsilon_r = 39.404$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.921 W/kg

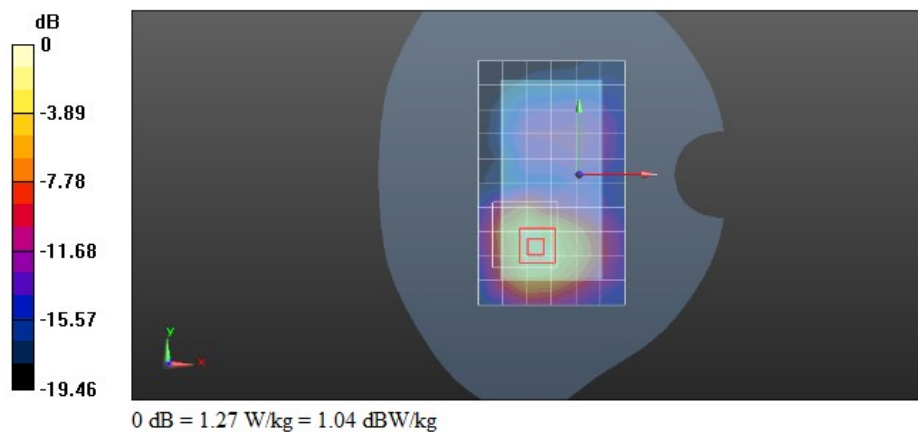
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 6.979 V/m; Power Drift = -1.42 dB

Peak SAR (extrapolated) = 1.53 W/kg

**SAR(1 g) = 0.902 W/kg; SAR(10 g) = 0.538 W/kg**

Maximum value of SAR (measured) = 1.27 W/kg



Test Laboratory: CTI SAR Lab

**GSM1900 512CH Back Side 10mm-Repeated****DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic GSM (0); Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz); Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.368$  S/m;  $\epsilon_r = 39.512$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.41 W/kg

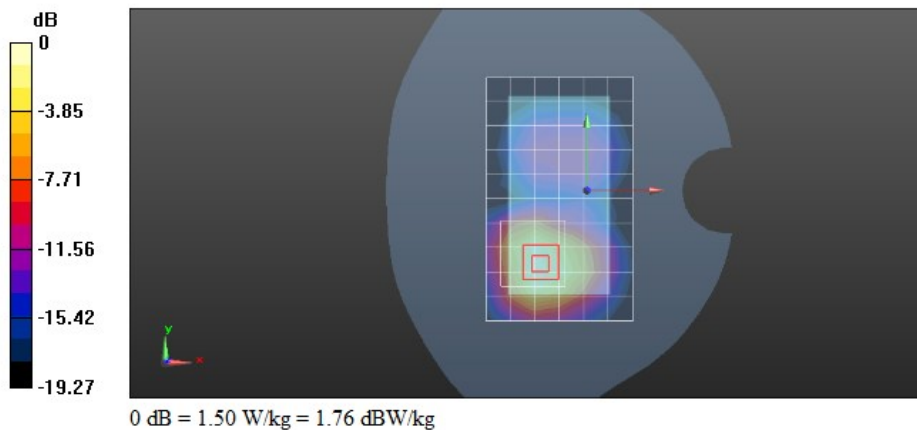
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 6.741 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.80 W/kg

**SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.624 W/kg**

Maximum value of SAR (measured) = 1.50 W/kg



Test Laboratory: CTI SAR Lab

## UMTS Band II 9262CH Back Side 10mm

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.39$  S/m;  $\epsilon_r = 40.18$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.52 W/kg

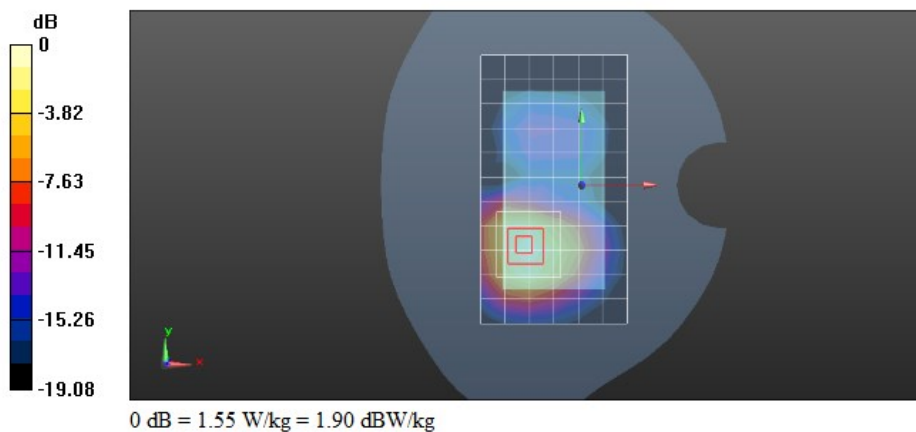
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.537 V/m; Power Drift = 1.42 dB

Peak SAR (extrapolated) = 1.86 W/kg

**SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.630 W/kg**

Maximum value of SAR (measured) = 1.55 W/kg



Test Laboratory: CTI SAR Lab

## UMTS Band II 9262CH Back Side 10mm-Repeated

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.39$  S/m;  $\epsilon_r = 40.18$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.59 W/kg

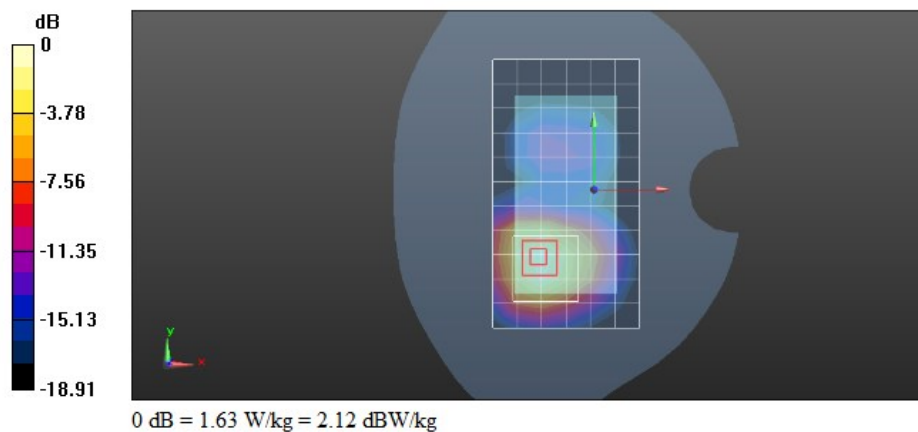
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.855 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.93 W/kg

**SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.651 W/kg**

Maximum value of SAR (measured) = 1.63 W/kg



Test Laboratory: CTI SAR Lab

## UMTS Band IV 1513CH Back Side 10mm

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.333$  S/m;  $\epsilon_r = 40.389$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.49, 8.49, 8.49); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.64 W/kg

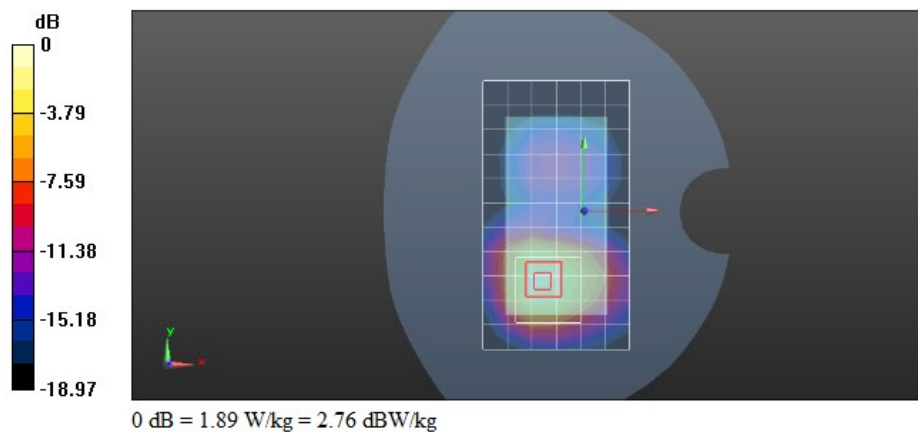
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.522 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.24 W/kg

**SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.753 W/kg**

Maximum value of SAR (measured) = 1.89 W/kg



Test Laboratory: CTI SAR Lab

**UMTS Band IV 1513CH Back Side 10mm-Repeated****DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.333$  S/m;  $\epsilon_r = 40.389$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.49, 8.49, 8.49); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.65 W/kg

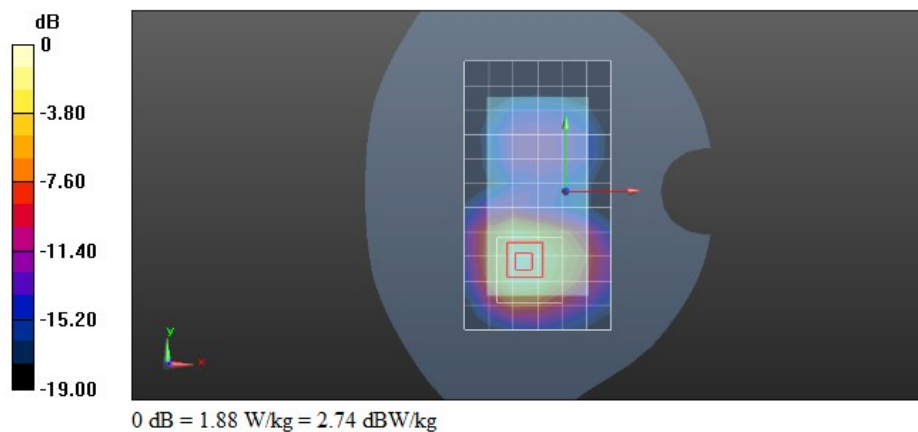
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.249 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.22 W/kg

**SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.754 W/kg**

Maximum value of SAR (measured) = 1.88 W/kg



Test Laboratory: CTI SAR Lab

## UMTS Band V 4233CH Back Side 5mm

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, UMTS-FDD(WCDMA) (0); Communication System Band: Band V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.899$  S/m;  $\epsilon_r = 39.647$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(9.98, 9.98, 9.98); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.219 W/kg

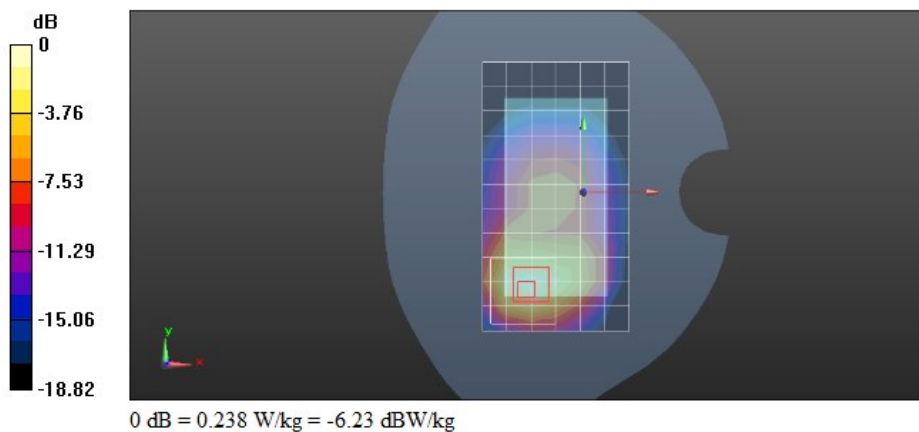
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.218 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.360 W/kg

**SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.088 W/kg**

Maximum value of SAR (measured) = 0.238 W/kg



Test Laboratory: CTI SAR Lab

## LTE Band 2 20M QPSK 1RB50 18700CH Back Side 10mm

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.38$  S/m;  $\epsilon_r = 39.446$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.52 W/kg

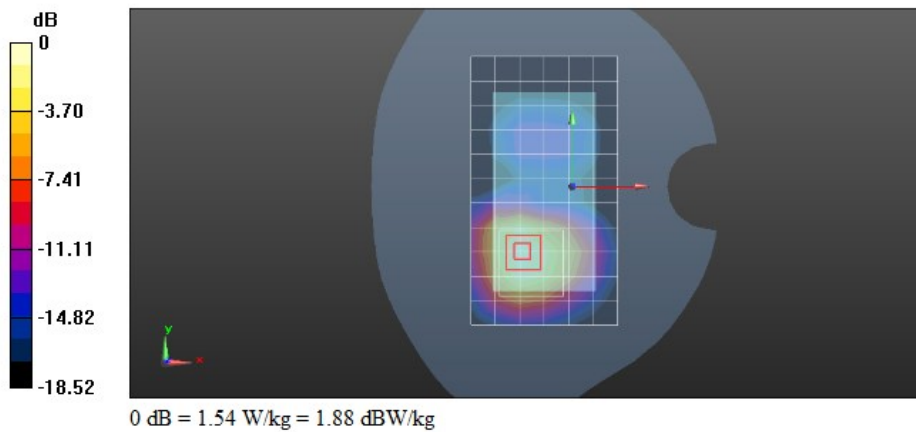
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.109 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 1.83 W/kg

**SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.621 W/kg**

Maximum value of SAR (measured) = 1.54 W/kg



Test Laboratory: CTI SAR Lab

## LTE Band 2 20M QPSK 1RB50 18700CH Back Side 10mm-Repeated

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.38$  S/m;  $\epsilon_r = 39.446$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

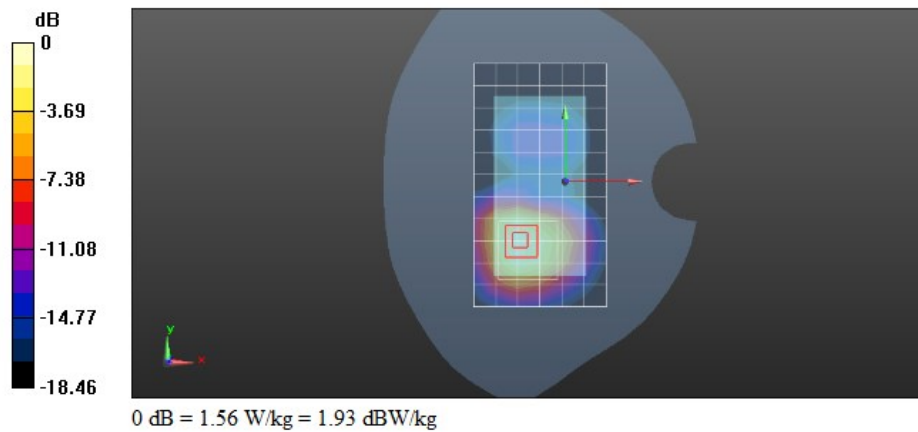
Maximum value of SAR (measured) = 1.56 W/kg

**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.106 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.635 W/kg



Test Laboratory: CTI SAR Lab

# **LTE Band 4 20M QPSK 1RB50 20175CH Back Side 10mm**

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.307$  S/m;  $\epsilon_r = 40.579$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.49, 8.49, 8.49); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.36 W/kg

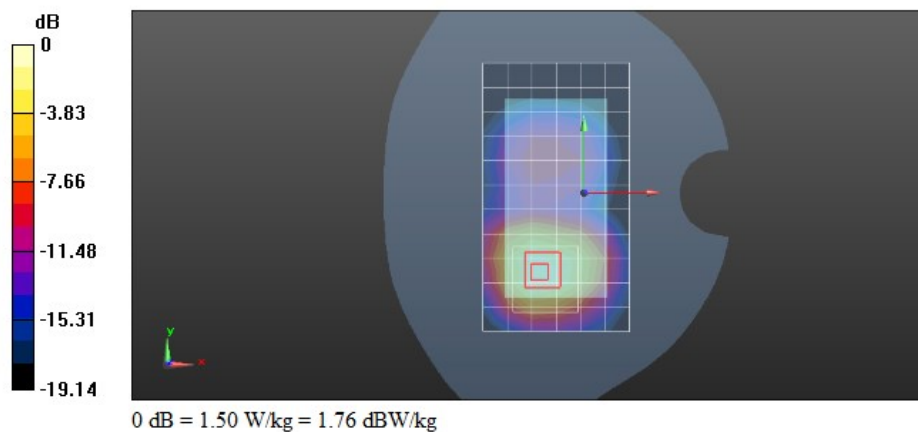
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.809 V/m; Power Drift = 0.66 dB

Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.621 W/kg**

Maximum value of SAR (measured) = 1.50 W/kg



Test Laboratory: CTI SAR Lab

# **LTE Band 4 20M QPSK 1RB50 20175CH Back Side 10mm-Repeated**

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.307$  S/m;  $\epsilon_r = 40.579$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.49, 8.49, 8.49); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.35 W/kg

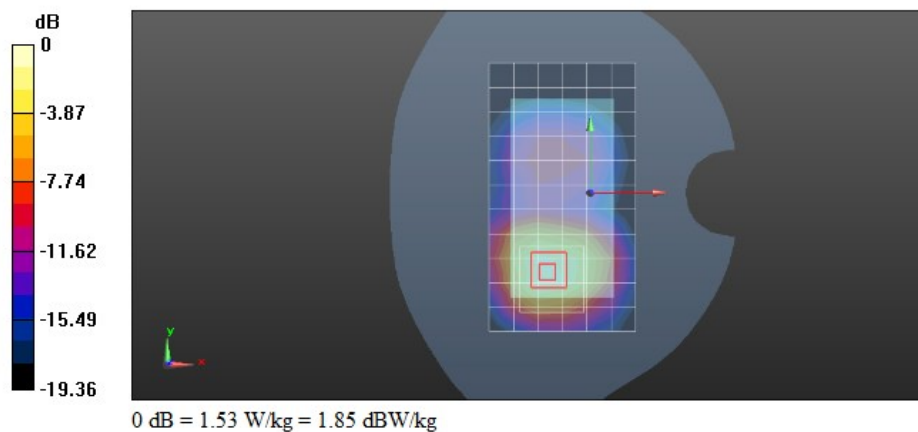
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.490 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.81 W/kg

**SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.634 W/kg**

Maximum value of SAR (measured) = 1.53 W/kg



Test Laboratory: CTI SAR Lab

## LTE Band 5 10M QPSK 25RB25 20450CH Back Side 10mm

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 829 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 829$  MHz;  $\sigma = 0.879$  S/m;  $\epsilon_r = 40.458$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(9.98, 9.98, 9.98); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.196 W/kg

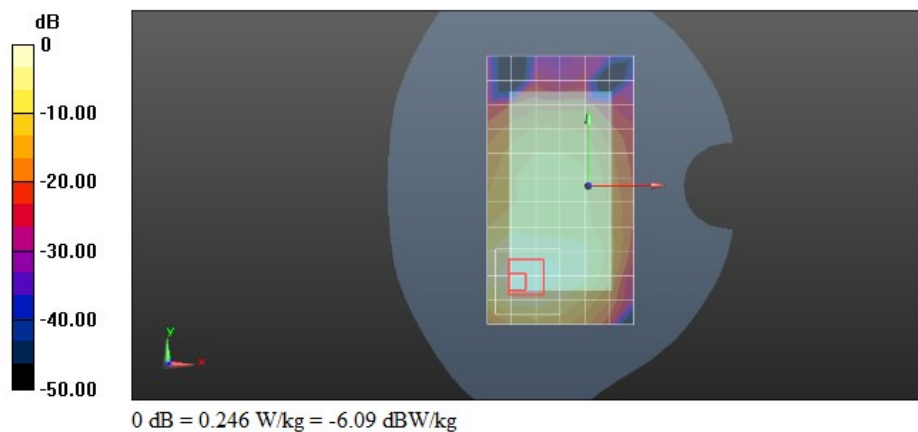
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.233 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.546 W/kg

**SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.086 W/kg**

Maximum value of SAR (measured) = 0.246 W/kg



Test Laboratory: CTI SAR Lab

# **LTE Band 7 20M QPSK 50RB25 21100CH Back Side 10mm**

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 1.917$  S/m;  $\epsilon_r = 39.419$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.63, 7.63, 7.63); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.789 W/kg

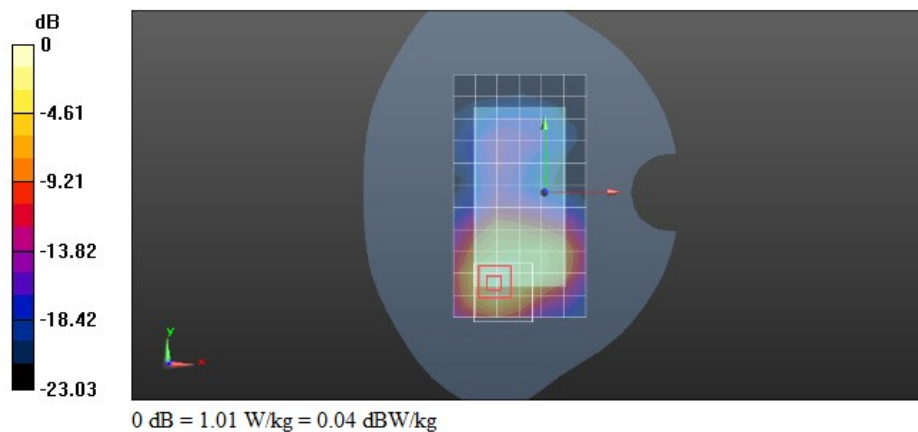
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.109 V/m; Power Drift = 0.70 dB

Peak SAR (extrapolated) = 1.27 W/kg

**SAR(1 g) = 0.619 W/kg; SAR(10 g) = 0.297 W/kg**

Maximum value of SAR (measured) = 1.01 W/kg



Test Laboratory: CTI SAR Lab

## LTE Band 12 10M QPSK 25RB25 23095CH Front Side 10mm

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 707.5$  MHz;  $\sigma = 0.849$  S/m;  $\epsilon_r = 43.512$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7769; ConvF(10.96, 10.96, 10.96); Calibrated: 9/20/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0359 W/kg

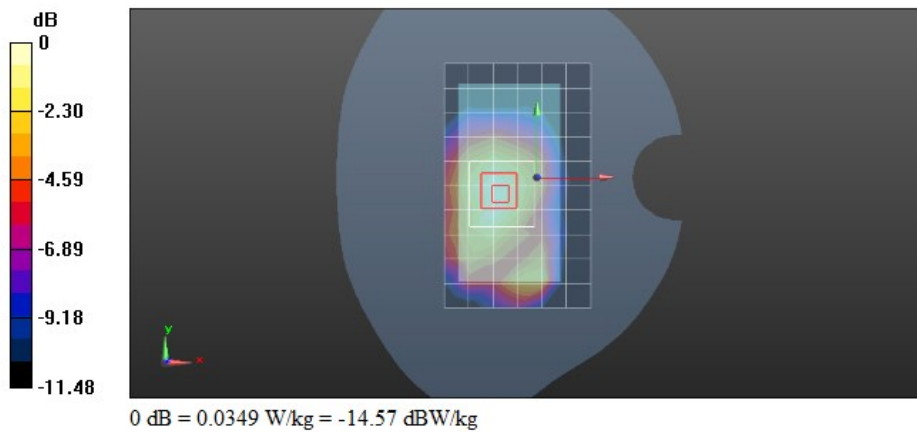
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.923 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.0450 W/kg

**SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.018 W/kg**

Maximum value of SAR (measured) = 0.0349 W/kg



Test Laboratory: CTI SAR Lab

## LTE Band 13 10M QPSK 1RB25 23230CH Back Side 10mm

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 13, E-UTRA/FDD (777.0 - 787.0 MHz); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 782 \text{ MHz}$ ;  $\sigma = 0.874 \text{ S/m}$ ;  $\epsilon_r = 42.764$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7769; ConvF(10.96, 10.96, 10.96); Calibrated: 9/20/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) =  $0.144 \text{ W/kg}$

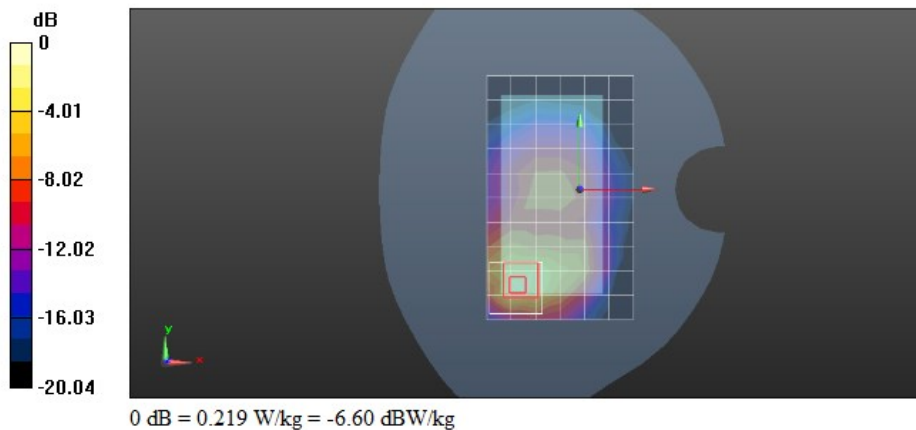
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $7.383 \text{ V/m}$ ; Power Drift =  $0.00 \text{ dB}$

Peak SAR (extrapolated) =  $0.309 \text{ W/kg}$

**SAR(1 g) =  $0.115 \text{ W/kg}$ ; SAR(10 g) =  $0.059 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.219 \text{ W/kg}$



Test Laboratory: CTI SAR Lab

## LTE Band 17 10M QPSK 1RB25 23790CH Front Side 10mm

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 17, E-UTRA/FDD (704.0 - 716.0 MHz); Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.852$  S/m;  $\epsilon_r = 43.499$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7769; ConvF(10.96, 10.96, 10.96); Calibrated: 9/20/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0528 W/kg

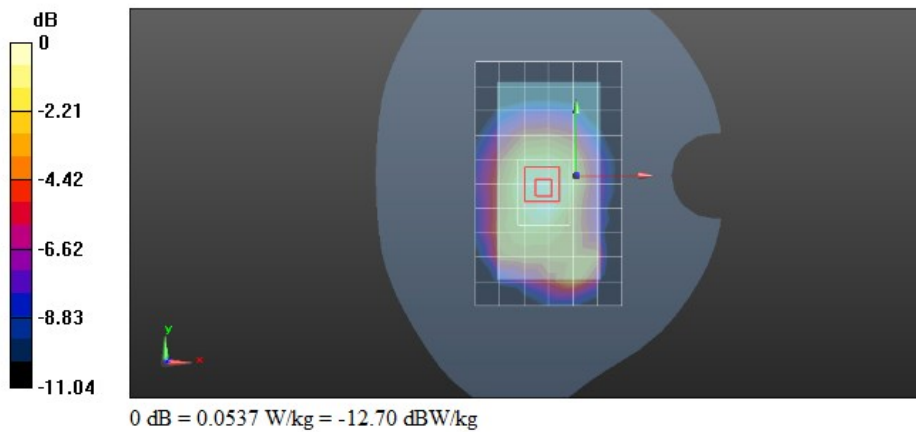
**Configuration/Head/Zoom Scan (5x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.664 V/m; Power Drift = 0.24 dB

Peak SAR (extrapolated) = 0.0650 W/kg

**SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.027 W/kg**

Maximum value of SAR (measured) = 0.0537 W/kg



Test Laboratory: CTI SAR Lab

## LTE Band 25 20M QPSK 1RB50 26140CH Back Side 10mm

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 25, E-UTRA/FDD (1850.0 - 1915.0 MHz); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.382$  S/m;  $\epsilon_r = 39.42$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.53 W/kg

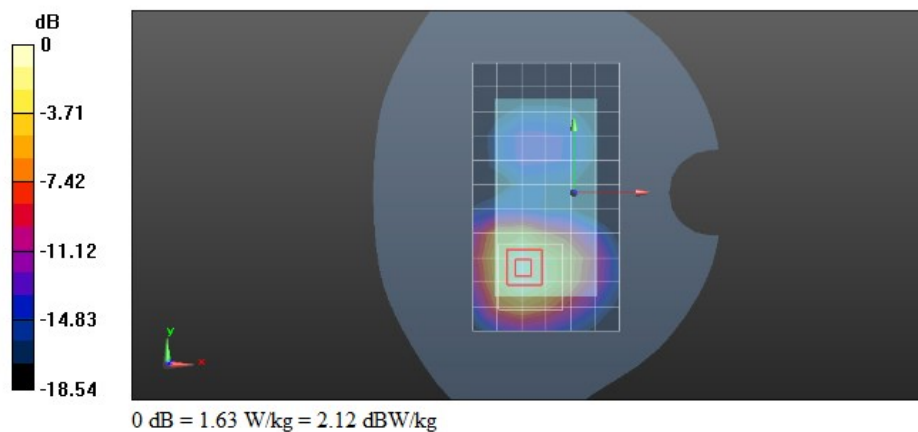
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.703 V/m; Power Drift = 0.63 dB

Peak SAR (extrapolated) = 1.94 W/kg

**SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.640 W/kg**

Maximum value of SAR (measured) = 1.63 W/kg



Test Laboratory: CTI SAR Lab

# **LTE Band 25 20M QPSK 1RB50 26140CH Back Side 10mm-Repeated**

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 25, E-UTRA/FDD (1850.0 - 1915.0 MHz); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.382$  S/m;  $\epsilon_r = 39.42$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.18, 8.18, 8.18); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.53 W/kg

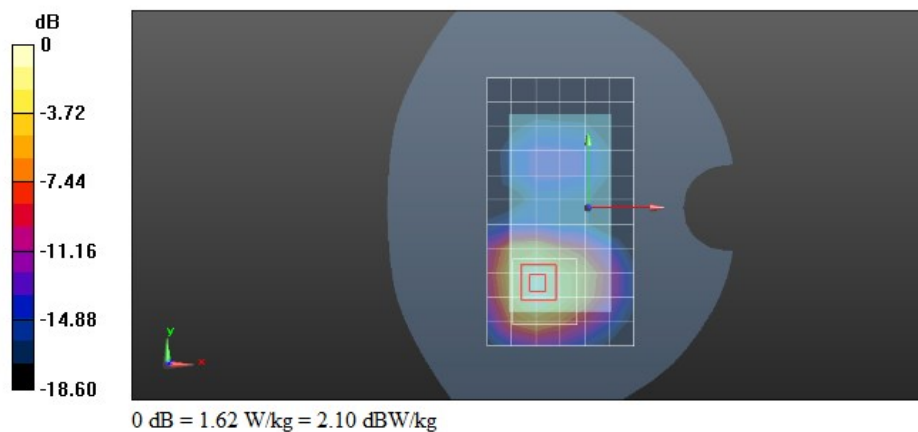
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.951 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.93 W/kg

**SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.637 W/kg**

Maximum value of SAR (measured) = 1.62 W/kg



Test Laboratory: CTI SAR Lab

**LTE Band 26 15M QPSK 1RB38 26909CH Back Side 10mm****DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 26, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 835.9 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 836$  MHz;  $\sigma = 0.884$  S/m;  $\epsilon_r = 40.43$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(9.98, 9.98, 9.98); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.194 W/kg

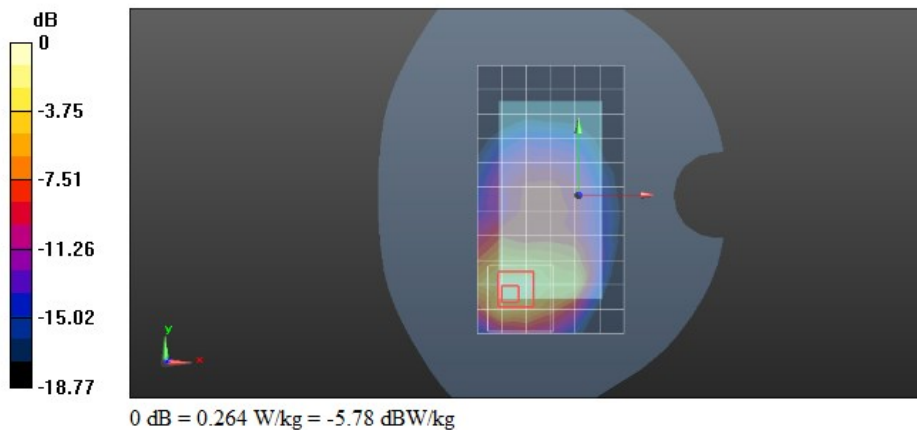
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.190 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 0.366 W/kg

**SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.086 W/kg**

Maximum value of SAR (measured) = 0.264 W/kg



Test Laboratory: CTI SAR Lab

## LTE Band 41 20M QPSK 1RB50 39750CH Top Side 10mm

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2506 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2506$  MHz;  $\sigma = 1.903$  S/m;  $\epsilon_r = 39.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.63, 7.63, 7.63); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x7x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.278 W/kg

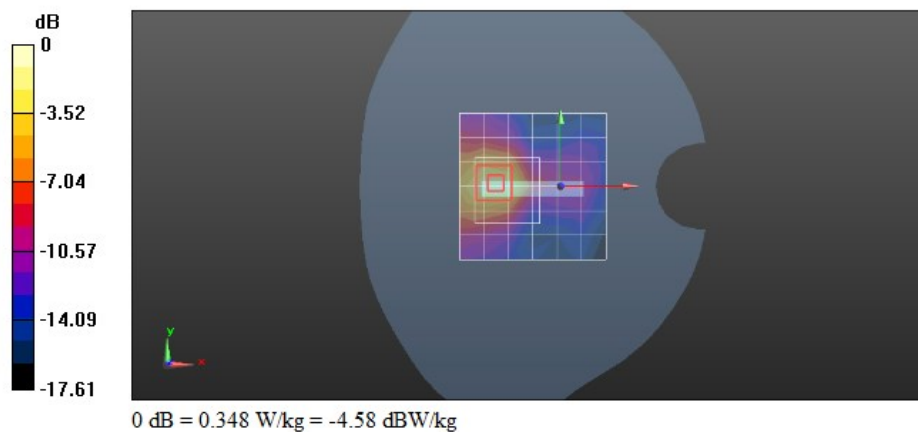
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.550 V/m; Power Drift = 0.66 dB

Peak SAR (extrapolated) = 0.441 W/kg

**SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.113 W/kg**

Maximum value of SAR (measured) = 0.348 W/kg



Test Laboratory: CTI SAR Lab

# **LTE Band 66 20M QPSK 1RB50 132572CH Back Side 10mm**

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 66, E-UTRA/FDD (1710.0 - 1780.0 MHz); Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1770$  MHz;  $\sigma = 1.354$  S/m;  $\epsilon_r = 40.691$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.49, 8.49, 8.49); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.43 W/kg

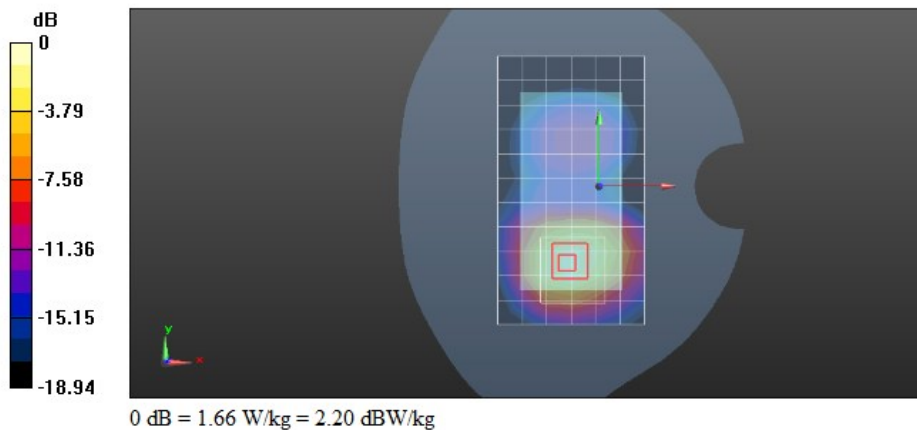
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.350 V/m; Power Drift = 0.40 dB

Peak SAR (extrapolated) = 1.96 W/kg

**SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.673 W/kg**

Maximum value of SAR (measured) = 1.66 W/kg



Test Laboratory: CTI SAR Lab

# **LTE Band 66 20M QPSK 1RB50 132072CH Back Side 10mm-Repeated**

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 66, E-UTRA/FDD (1710.0 - 1780.0 MHz); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.306$  S/m;  $\epsilon_r = 40.858$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.49, 8.49, 8.49); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (7x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.32 W/kg

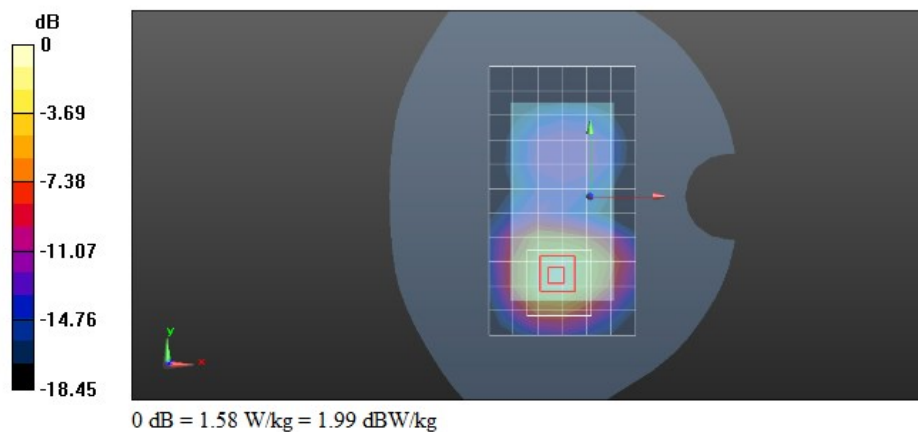
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.242 V/m; Power Drift = 0.52 dB

Peak SAR (extrapolated) = 1.88 W/kg

**SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.629 W/kg**

Maximum value of SAR (measured) = 1.58 W/kg



Test Laboratory: CTI SAR Lab

## WiFi 802.11b 1CH Back Side 10mm

**DUT: LTE Mobile Wi-Fi Route; Type: NA; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.782$  S/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.63, 7.63, 7.63); Calibrated: 3/23/2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/11/2023
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.125 W/kg

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

Reference Value = 2.415 V/m; Power Drift = 0.89 dB

Peak SAR (extrapolated) = 0.172 W/kg

**SAR(1 g) = 0.088 W/kg; SAR(10 g) = 0.043 W/kg**

Maximum value of SAR (measured) = 0.139 W/kg

