

Test Plot 1#:LoRa_ BackSide _Middle Channel**DUT: Messenger; Type: SRM; Serial: RDG190813006-SA-S1**

Communication System: LoRa_900MHz; Frequency: 908.5 MHz;Duty Cycle: 1:10.6

Medium parameters used: $f = 908.5$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 41.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(9.68, 9.68, 9.68) @ 908.5 MHz; Calibrated: 2019/10/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2019/10/6
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.269 W/kg

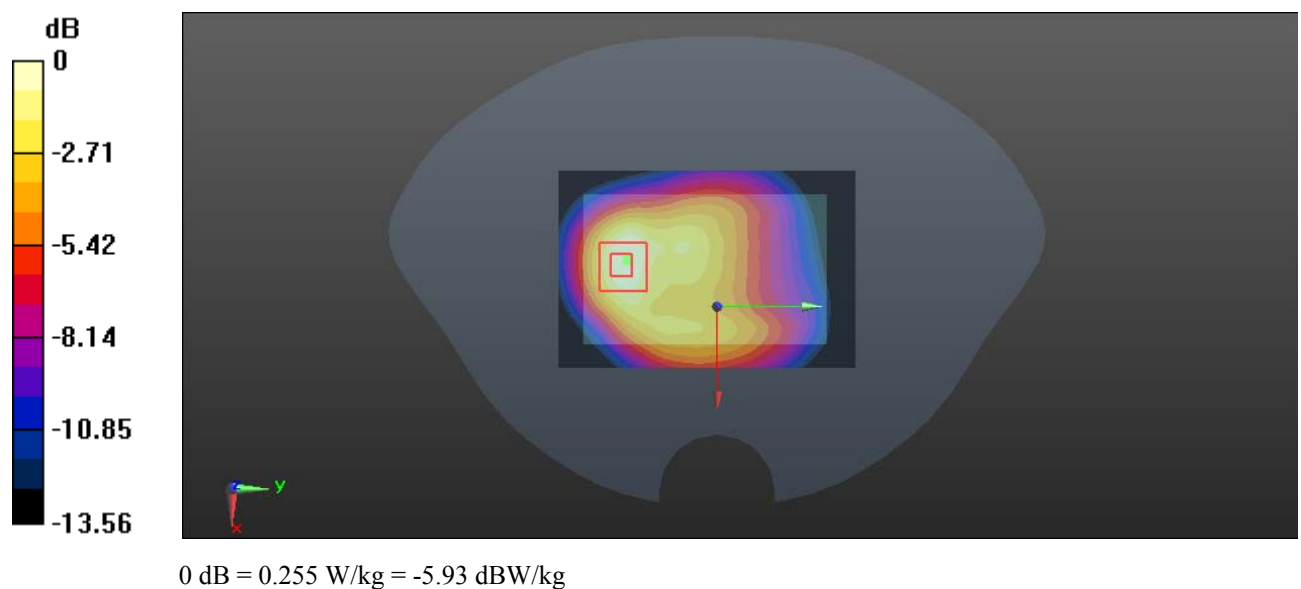
Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.56 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.440 W/kg

SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.255 W/kg



Test Plot 2#:LoRa_FrontSide_Low Channel**DUT: Messenger; Type: SRM; Serial: RDG190813006-SA-S1**

Communication System: LoRa_900MHz; Frequency: 902.3 MHz; Duty Cycle: 1:10.6

Medium parameters used: $f = 902.3$ MHz; $\sigma = 0.889$ S/m; $\epsilon_r = 41.247$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(9.68, 9.68, 9.68) @ 902.3 MHz; Calibrated: 2019/10/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2019/10/6
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.358 W/kg

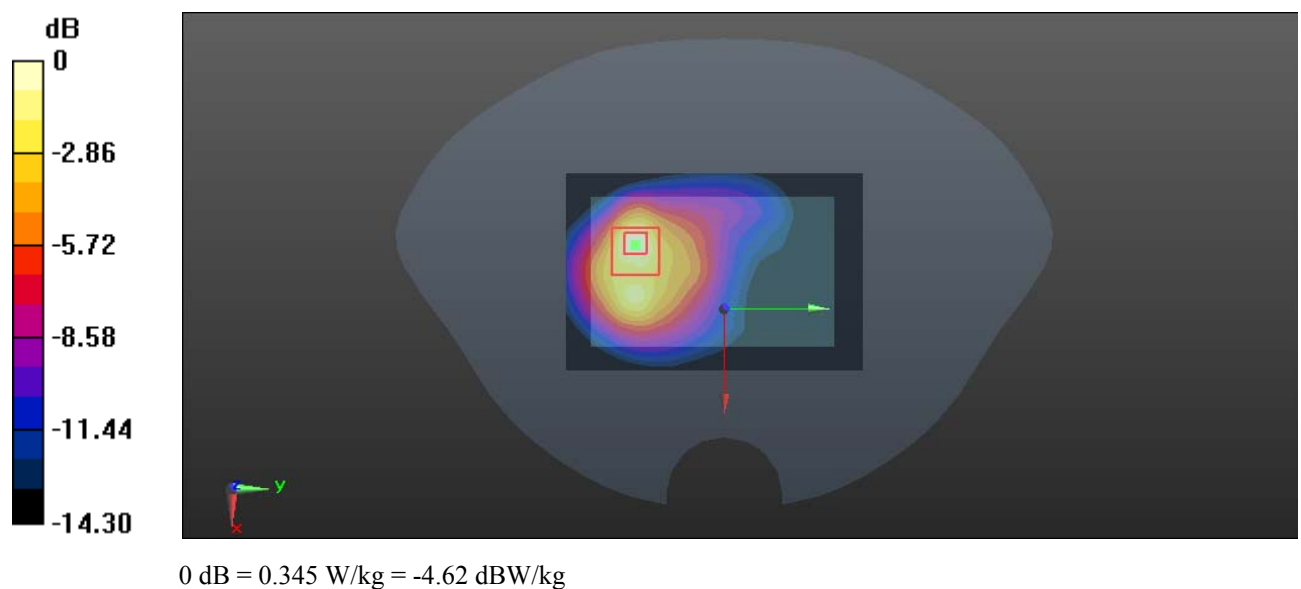
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.681 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.825 W/kg

SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.145 W/kg

Maximum value of SAR (measured) = 0.345 W/kg



Test Plot 3#:LoRa_FrontSide _Middle Channel**DUT: Messenger; Type: SRM; Serial: RDG190813006-SA-S1**

Communication System: LoRa_900MHz; Frequency: 908.5 MHz;Duty Cycle: 1:10.6

Medium parameters used: $f = 908.5$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 41.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(9.68, 9.68, 9.68) @ 908.5 MHz; Calibrated: 2019/10/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2019/10/6
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.323 W/kg

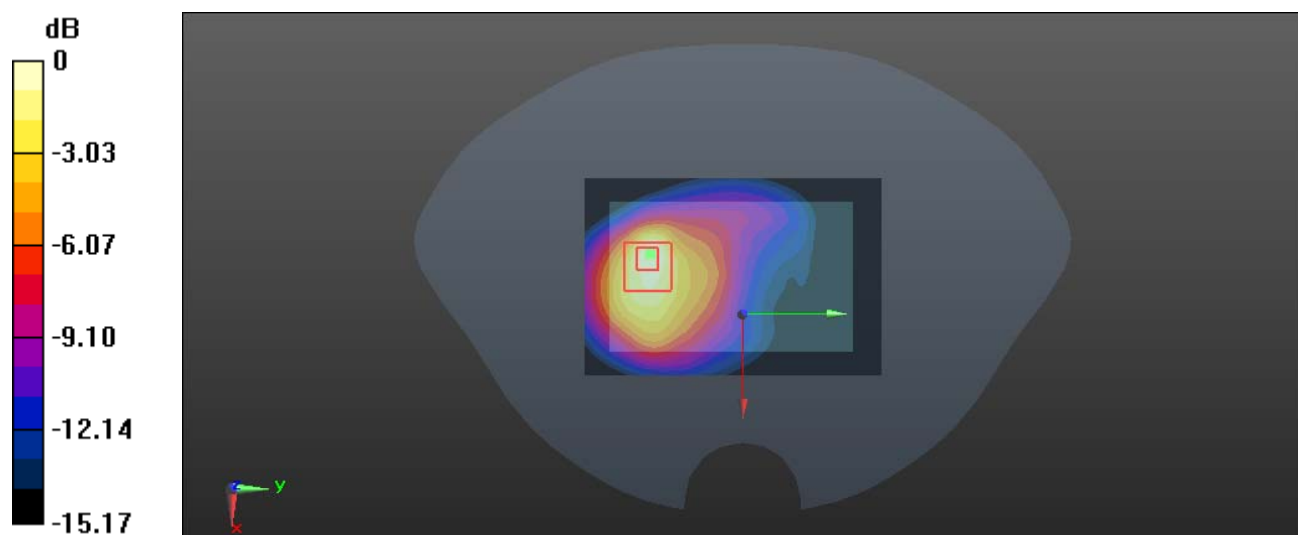
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.991 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.803 W/kg

SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.143 W/kg

Maximum value of SAR (measured) = 0.322 W/kg



0 dB = 0.322 W/kg = -4.92 dBW/kg

Test Plot 4#:LoRa_FrontSide _High Channel**DUT: Messenger; Type: SRM; Serial: RDG190813006-SA-S1**

Communication System: LoRa_900MHz; Frequency: 914.9 MHz;Duty Cycle: 1:10.6

Medium parameters used: $f = 914.9$ MHz; $\sigma = 0.919$ S/m; $\epsilon_r = 41.043$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(9.68, 9.68, 9.68) @ 914.9 MHz; Calibrated: 2019/10/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2019/10/6
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.324 W/kg

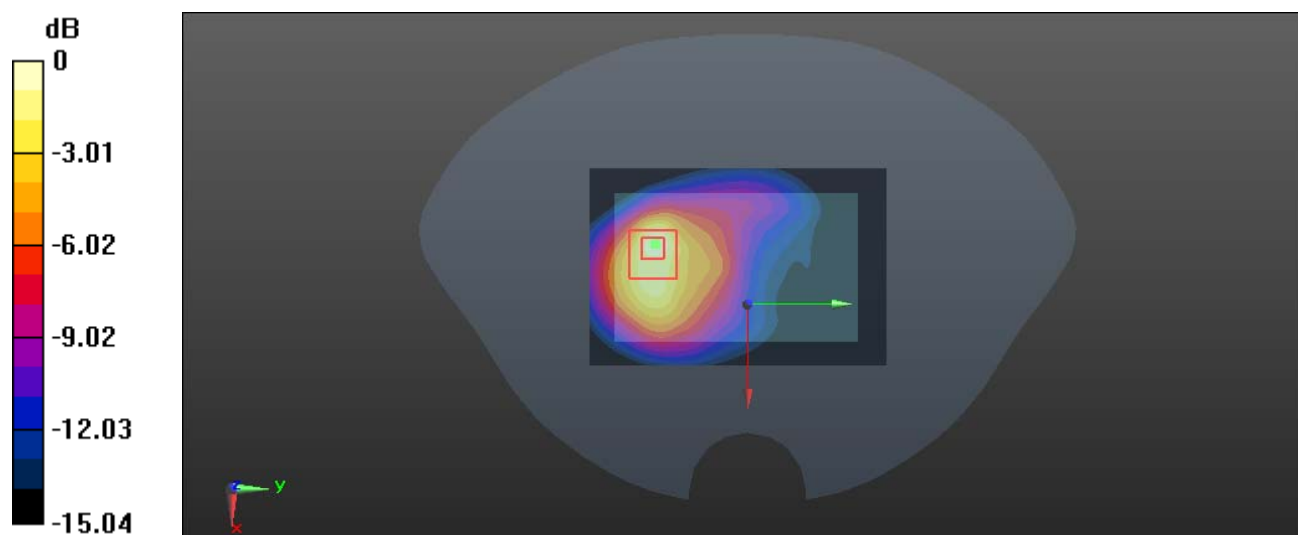
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.891 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.809 W/kg

SAR(1 g) = 0.283 W/kg; SAR(10 g) = 0.137 W/kg

Maximum value of SAR (measured) = 0.328 W/kg



0 dB = 0.328 W/kg = -4.84 dBW/kg

Test Plot 5#:LoRa_ RightSide _Middle Channel**DUT: Messenger; Type: SRM; Serial: RDG190813006-SA-S1**

Communication System: LoRa_900MHz; Frequency: 908.5 MHz;Duty Cycle: 1:10.6

Medium parameters used: $f = 908.5$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 41.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(9.68, 9.68, 9.68) @ 908.5 MHz; Calibrated: 2019/10/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2019/10/6
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.186 W/kg

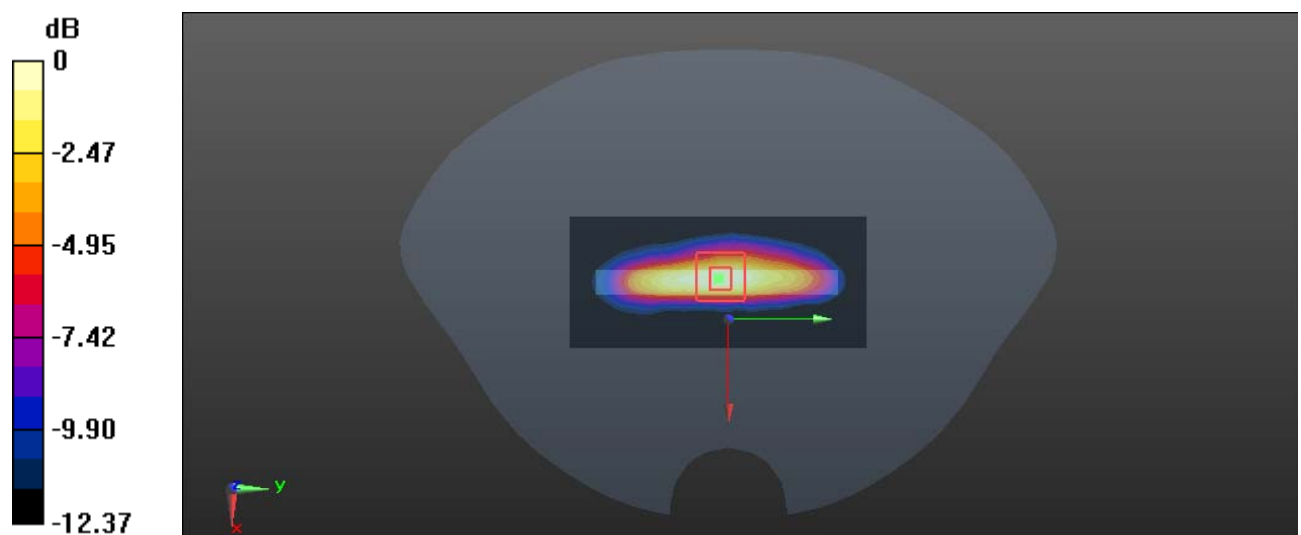
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.56 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.304 W/kg

SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.083 W/kg

Maximum value of SAR (measured) = 0.184 W/kg



0 dB = 0.184 W/kg = -7.35 dBW/kg

Test Plot 6#:LoRa_ BottomSide _Middle Channel**DUT: Messenger; Type: SRM; Serial: RDG190813006-SA-S1**

Communication System: LoRa_900MHz; Frequency: 908.5 MHz;Duty Cycle: 1:10.6

Medium parameters used: $f = 908.5$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 41.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7329; ConvF(9.68, 9.68, 9.68) @ 908.5 MHz; Calibrated: 2019/10/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2019/10/6
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.086 W/kg

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

Reference Value = 5.781 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.189 W/kg

SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.036 W/kg

Maximum value of SAR (measured) = 0.101 W/kg

