



## Appendix A. Plots of System Performance Check

## System Check\_B835\_161208

**DUT: Dipole 835 MHz D835V2\_ SN: 4d167**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: B835\_161208 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.988$  S/m;  $\epsilon_r = 54.769$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ambient Temperature : 23.4 °C; Liquid Temperature : 22.2 °C**

DASY5 Configuration:

- Probe: EX3DV4 - SN3976; ConvF(9.84, 9.84, 9.84); Calibrated: 2015/2/26;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1424; Calibrated: 2015/2/20
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1238
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.76 W/kg

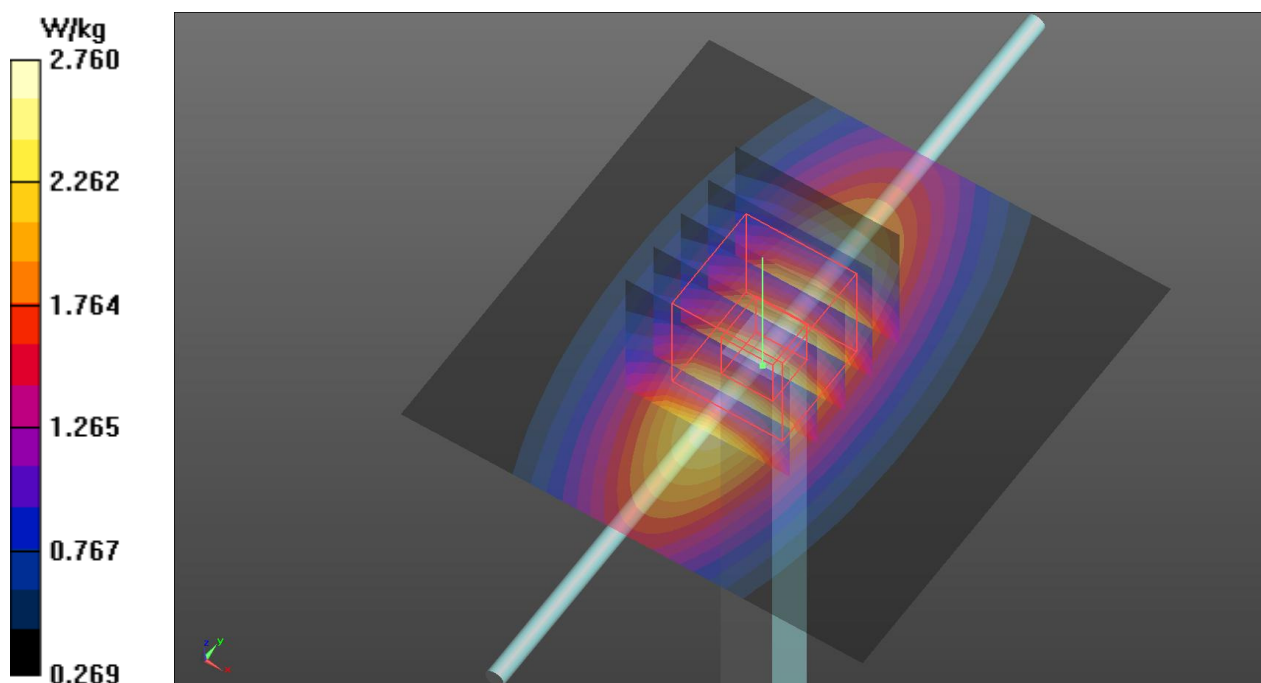
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.14 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.43 W/kg

**SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.58 W/kg**

Maximum value of SAR (measured) = 2.76 W/kg



## System Check\_B1900\_161207

### DUT: Dipole 1900 MHz D1900V2\_ SN: 5d185

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: B1900\_161207 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.529$  S/m;  $\epsilon_r = 52.488$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ambient Temperature** : 23.4 °C; **Liquid Temperature** : 22.2 °C

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3976; ConvF(7.66, 7.66, 7.66); Calibrated: 2015/2/26;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1424; Calibrated: 2015/2/20
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1238
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**Pin=250mW/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.5 W/kg

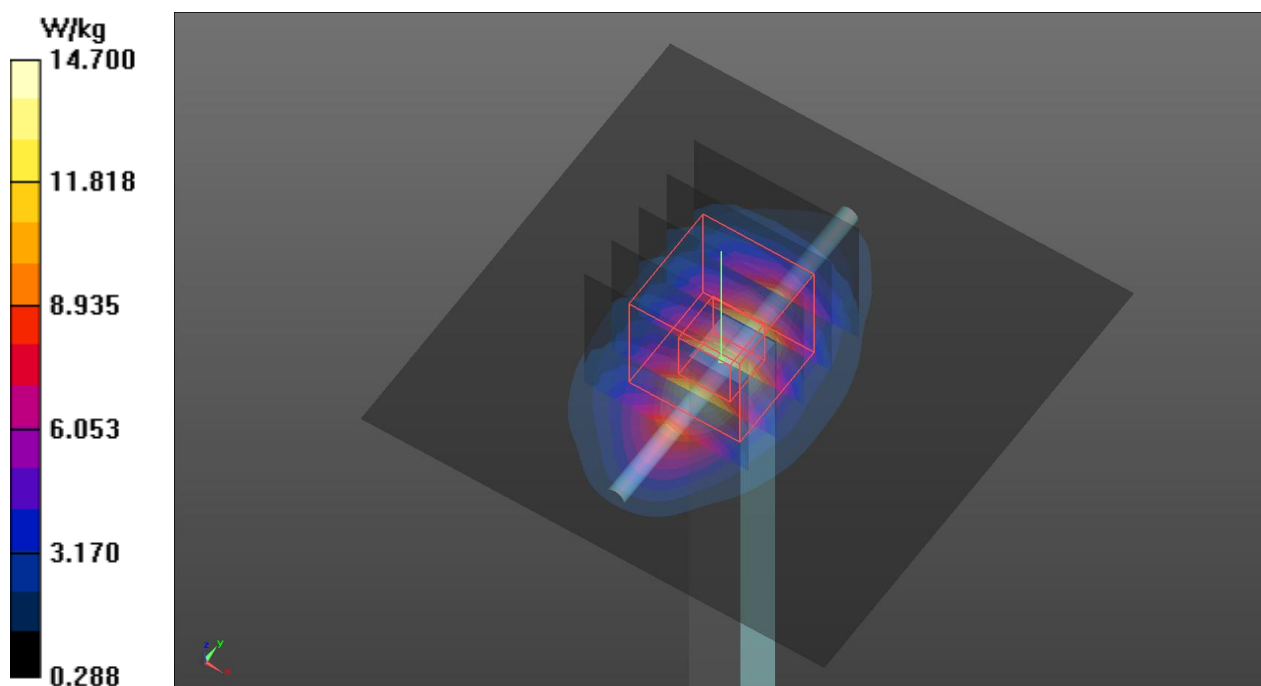
**Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 95.48 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 18.2 W/kg

**SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.46 W/kg**

Maximum value of SAR (measured) = 14.7 W/kg



## System Check\_B2450\_161208

**DUT: Dipole 2450MHz D2450V2\_ SN: 929**

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: B2450\_161208 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.939$  S/m;  $\epsilon_r = 52.136$ ;  $\rho = 1000$  kg/m<sup>3</sup>

**Ambient Temperature : 23.4 °C; Liquid Temperature : 22.2 °C**

DASY5 Configuration:

- Probe: EX3DV4 - SN3976; ConvF(7.45, 7.45, 7.45); Calibrated: 2016/2/22;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1424; Calibrated: 2016/2/16
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1238
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7373)

**Pin=250mW/Area Scan (81x81x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 18.3 W/kg

**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.98 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 24.2 W/kg

**SAR(1 g) = 12.2 W/kg; SAR(10 g) = 5.75 W/kg**

Maximum value of SAR (measured) = 18.3 W/kg

