

**Appendix A:SAR System performance Check Plots**

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**System Performance Check-D835**

**System Performance Check-D1900**

Test Laboratory: CTI SAR Lab

**Systemcheck-835-Head****DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN:4d193**

Communication System: UID 0, CW (0); Communication System Band: D835(835.0 MHz); Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.886$  S/m;  $\epsilon_r = 41.762$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10, 10, 10); Calibrated: 2/27/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/4/2022
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=15mm,Pin=250mW/Area Scan (8x12x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 3.09 W/kg

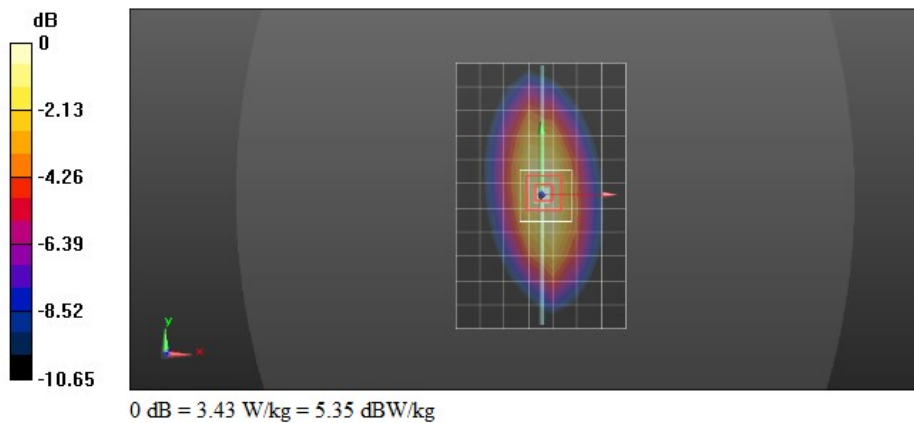
**Configuration/d=15mm,Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 53.25 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 4.02 W/kg

**SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.65 W/kg**

Maximum value of SAR (measured) = 3.43 W/kg



Test Laboratory: CTI SAR Lab

**Systemcheck 1900-Head****DUT: D1900V2 - SN5d198; Type: D1900V2; Serial: SN5d198**

Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.406$  S/m;  $\epsilon_r = 38.266$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

## DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.1, 8.1, 8.1); Calibrated: 2/27/2022;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/4/2022
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm, Pin=250 mW/Area Scan (8x8x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 12.7 W/kg

**Configuration/d=10mm, Pin=250 mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 95.55 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 18.2 W/kg

**SAR(1 g) = 9.73 W/kg; SAR(10 g) = 5.13 W/kg**

Maximum value of SAR (measured) = 15.1 W/kg

