

|                                                      |
|------------------------------------------------------|
| <b>Appendix A:SAR System performance Check Plots</b> |
| <b>Table of contents</b>                             |
| <b>System Performance Check-D835</b>                 |
| <b>System Performance Check-D1900</b>                |
| <b>System Performance Check-D2450</b>                |

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;  $\sigma = 0.924$  S/m;  $\epsilon_r = 40.067$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.16, 10.16, 10.16); Calibrated: 2/8/2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2020
- 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) = 2.79 W/kg

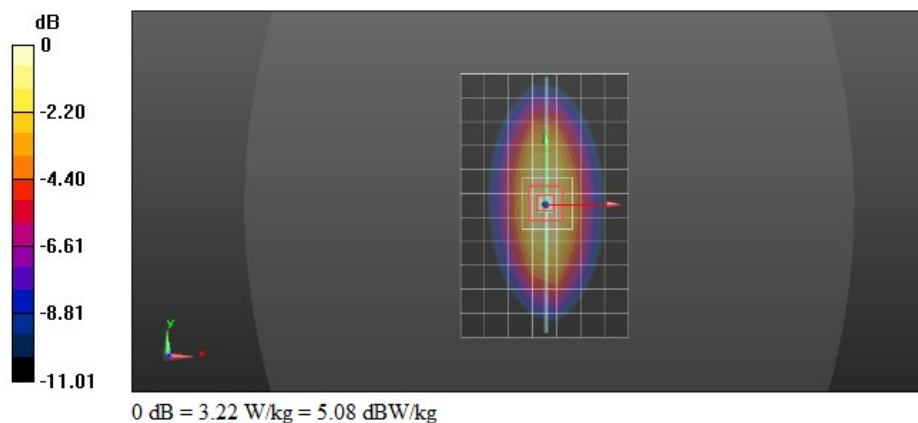
**Configuration/d=15mm,Pin=250mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 51.83 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.75 W/kg

**SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.51 W/kg**

Maximum value of SAR (measured) = 3.22 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;  $\sigma = 1.398$  S/m;  $\epsilon_r = 40.095$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(8.3, 8.3, 8.3); Calibrated: 2/8/2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2020
- 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) = 10.1 W/kg

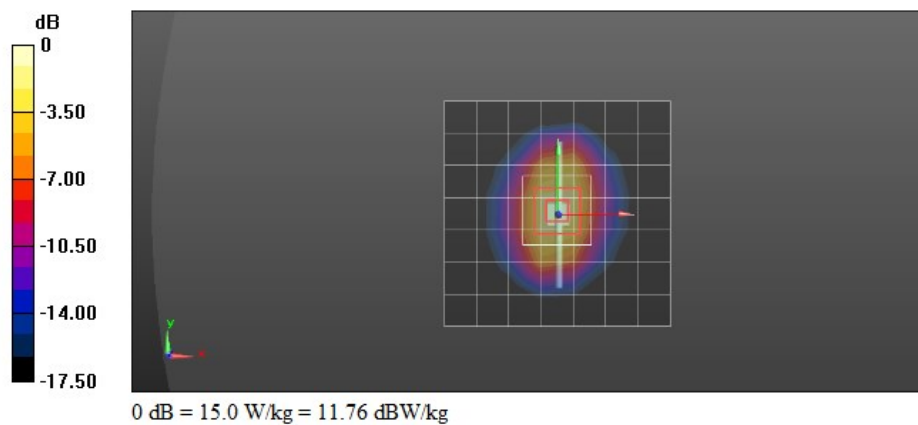
**Configuration/d=10mm, Pin=250 mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 99.20 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 18.0 W/kg

**SAR(1 g) = 9.65 W/kg; SAR(10 g) = 5.08 W/kg**

Maximum value of SAR (measured) = 15.0 W/kg



Test Laboratory: CTI SAR Lab

**Systemcheck 2450-Head****DUT: D2450V2 - SN959; Type: D2450V2; Serial: SN959**

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.808$  S/m;  $\epsilon_r = 38.916$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.68, 7.68, 7.68); Calibrated: 2/8/2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 1/8/2020
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: 2024
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/d=10mm,Pin=250mW/Area Scan (10x10x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 16.7 W/kg

**Configuration/d=10mm,Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 114.1 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 28.0 W/kg

**SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.26 W/kg**

Maximum value of SAR (measured) = 22.5 W/kg

