

**Appendix B:SAR Measurement results Plots**

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Test Laboratory: CTI SAR Lab

### C76 902.75MHz Top Side 0mm

**DUT: Mobile Data Terminal; Type: C76; Serial: NA**

Communication System: UID 0, ASK (0); Communication System Band: ASK; Frequency: 902.75 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 903 \text{ MHz}$ ;  $\sigma = 1.001 \text{ S/m}$ ;  $\epsilon_r = 55.129$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(10.03, 10.03, 10.03); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- 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:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) =  $0.791 \text{ W/kg}$

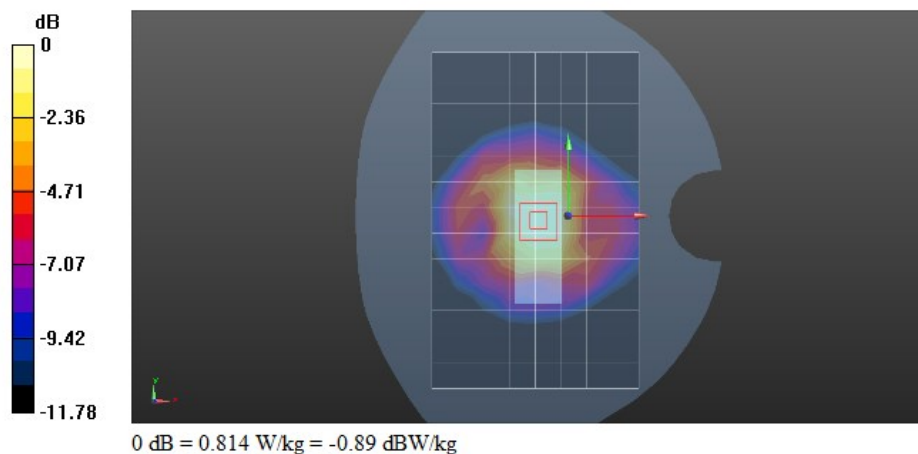
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $27.29 \text{ V/m}$ ; Power Drift =  $-0.04 \text{ dB}$

Peak SAR (extrapolated) =  $0.868 \text{ W/kg}$

**SAR(1 g) =  $0.743 \text{ W/kg}$ ; SAR(10 g) =  $0.590 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.814 \text{ W/kg}$



Test Laboratory: CTI SAR Lab

### C76 WiFi 802.11b 11CH Right Side 0mm

**DUT: Mobile Data Terminal; Type: C76; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.013$  S/m;  $\epsilon_r = 53.112$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(7.69, 7.69, 7.69); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.187 W/kg

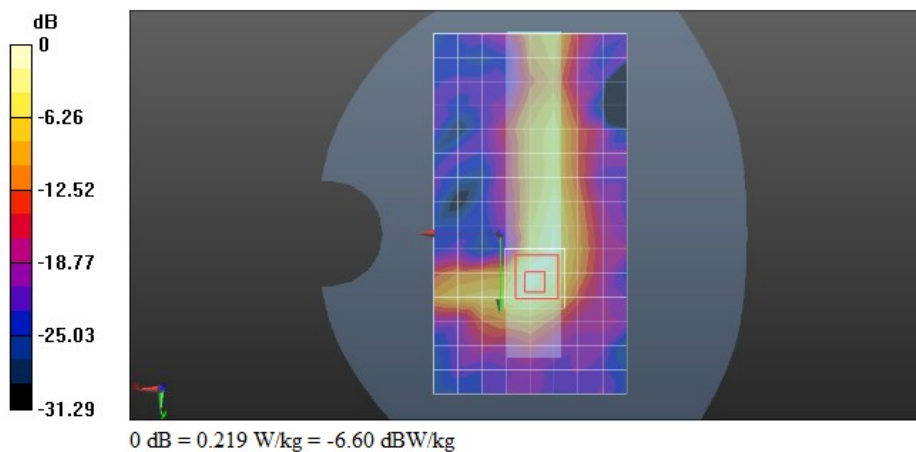
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.207 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.272 W/kg

**SAR(1 g) = 0.130 W/kg; SAR(10 g) = 0.057 W/kg**

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



Test Laboratory: CTI SAR Lab

### C76 WiFi 802.11a 64CH Right Side 0mm

**DUT: Mobile Data Terminal; Type: C76; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.3G; Frequency: 5320 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5320$  MHz;  $\sigma = 5.218$  S/m;  $\epsilon_r = 48.958$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(4.33, 4.33, 4.33); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x16x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.795 W/kg

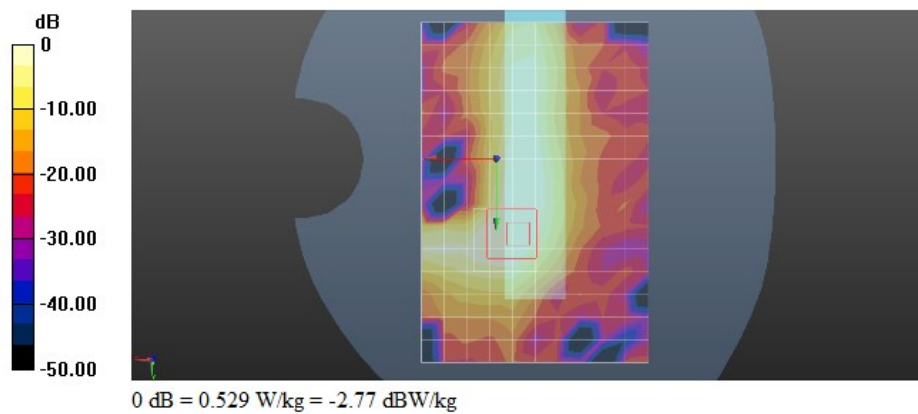
**Configuration/Body/Zoom Scan (8x8x16)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 6.840 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.386 W/kg; SAR(10 g) = 0.195 W/kg**

Maximum value of SAR (measured) = 0.529 W/kg



Test Laboratory: CTI SAR Lab

### C76 WiFi 802.11a 110CH Top Side 0mm

**DUT: Mobile Data Terminal; Type: C76; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.5G; Frequency: 5550 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5550$  MHz;  $\sigma = 5.613$  S/m;  $\epsilon_r = 47.813$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(3.92, 3.92, 3.92); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (12x16x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.543 W/kg

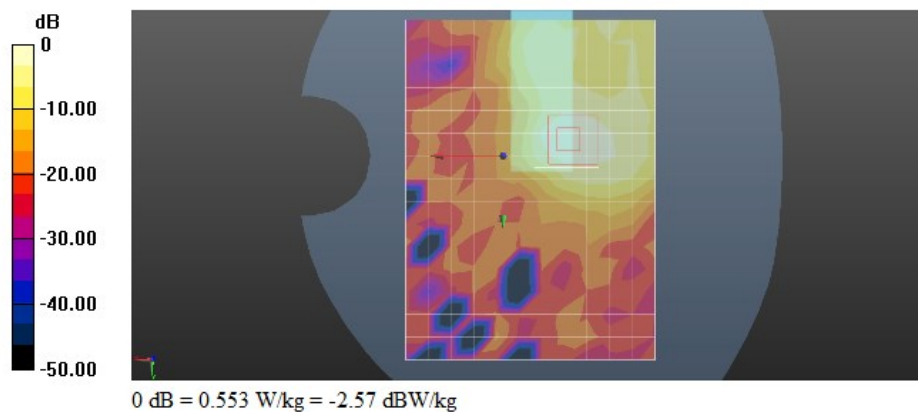
**Configuration/Body/Zoom Scan (8x8x16)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 5.788 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.587 W/kg

**SAR(1 g) = 0.410 W/kg; SAR(10 g) = 0.223 W/kg**

Maximum value of SAR (measured) = 0.553 W/kg



Test Laboratory: CTI SAR Lab

### C76 WiFi 802.11a 157CH Right Side 0mm

**DUT: Mobile Data Terminal; Type: C76; Serial: NA**

Communication System: UID 0, WiFi 802.11 a/b/g/n/ac (0); Communication System Band: WiFi 5.8G; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5785$  MHz;  $\sigma = 5.968$  S/m;  $\epsilon_r = 47.633$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7328; ConvF(3.93, 3.93, 3.93); Calibrated: 2/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- Electronics: DAE4 Sn1458; Calibrated: 5/7/2018
- Phantom: Twin SAM V5.0; Type: QD000P40CD; Serial: 1875
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (12x16x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.539 W/kg

**Configuration/Body/Zoom Scan (8x8x16)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 4.211 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.458 W/kg

**SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.180 W/kg**

Maximum value of SAR (measured) = 0.446 W/kg

