

Test Laboratory: Shenzhen EMTEK Co.,Ltd.

Date/Time: 07.05.2015

### SystemPerformanceCheck-D2450V2-MSL-150507

**DUT: Dipole 2450 MHz D2450V2 SN:927**

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

Medium: MSL\_2450\_150507

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.006$  S/m;  $\epsilon_r = 52.889$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.8 °C

DASY Configuration:

- Probe: EX3DV4 - SN3801; ConvF(6.90, 6.90, 6.90); Calibrated: 18.06.2014;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 29.11.2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1231
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**System Performance Check at Frequency at 2450MHz/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Area Scan (41x61x1):** Interpolated grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 18.3 W/kg

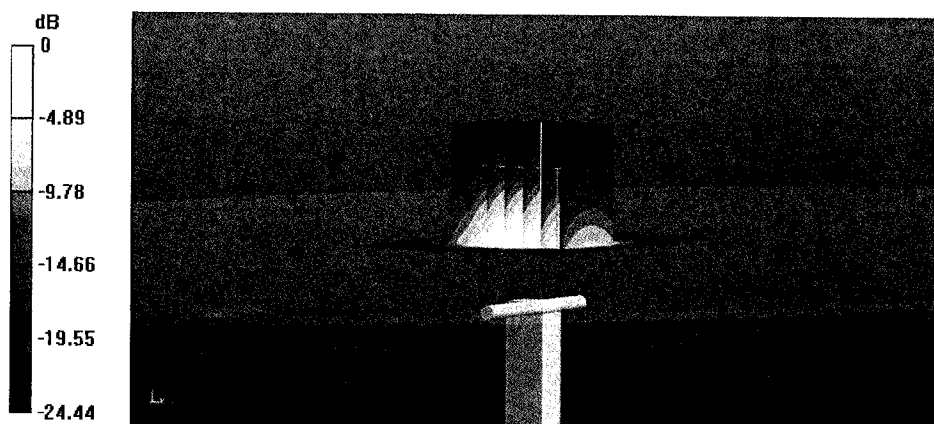
**System Performance Check at Frequency at 2450MHz/d=10mm, Pin=250mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.725 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 25.1 W/kg

**SAR(1 g) = 12.09 W/kg; SAR(10 g) = 5.18 W/kg**

Maximum value of SAR (measured) = 18.5 W/kg



0 dB = 18.5 W/kg = 12.67 dBW/kg

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Date/Time: 11.05.2015

**SystemPerformanceCheck-D5GHzV2-5200MHz-MSL-150511**

**DUT: Dipole D5GHzV2 SN:1169**

Communication System: UID 0, CW; Frequency: 5200 MHz;Duty Cycle: 1:1

Medium: MSL\_5G\_150511

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.264$  S/m;  $\epsilon_r = 49.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.7 °C

DASY Configuration:

- Probe: EX3DV4 - SN3801; ConvF(4.17, 4.17, 4.17); Calibrated: 18.06.2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 29.11.2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1231
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**System Performance Check at Frequency at 5200MHz/d=10mm, Pin=100mW, dist=1.4mm (EX-Probe)/Area Scan (91x91x1):** Interpolated grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 18.3 W/kg

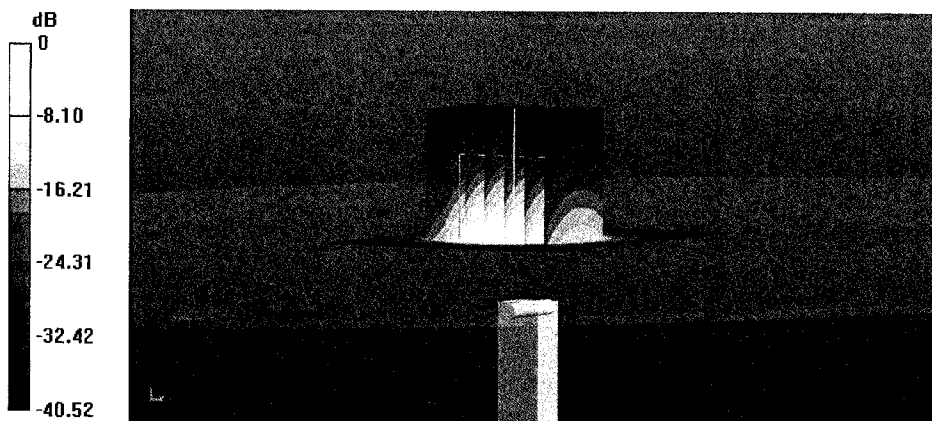
**System Performance Check at Frequency at 5200MHz/d=10mm, Pin=100mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 56.667 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 35.2 W/kg

**SAR(1 g) = 7.75 W/kg; SAR(10 g) = 2.13 W/kg**

Maximum value of SAR (measured) = 18.2 W/kg



0 dB = 18.2 W/kg = 12.60 dBW/kg

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**SystemPerformanceCheck-D5GHzV2-5800MHz-MSL-150511**

**DUT: Dipole D5GHzV2 SN:1169**

Communication System: UID 0, CW; Frequency: 5800 MHz;Duty Cycle: 1:1

Medium: MSL\_5G\_150511

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.128$  S/m;  $\epsilon_r = 48.04$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 23.2 °C; Liquid Temperature: 22.7 °C

DASY Configuration:

- Probe: EX3DV4 - SN3801; ConvF(3.94, 3.94, 3.94); Calibrated: 18.06.2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn918; Calibrated: 29.11.2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1231
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**System Performance Check at Frequency at 5800MHz/d=10mm, Pin=100mW, dist=1.4mm (EX-Probe)/Area Scan (91x91x1):** Interpolated grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 18.6 W/kg

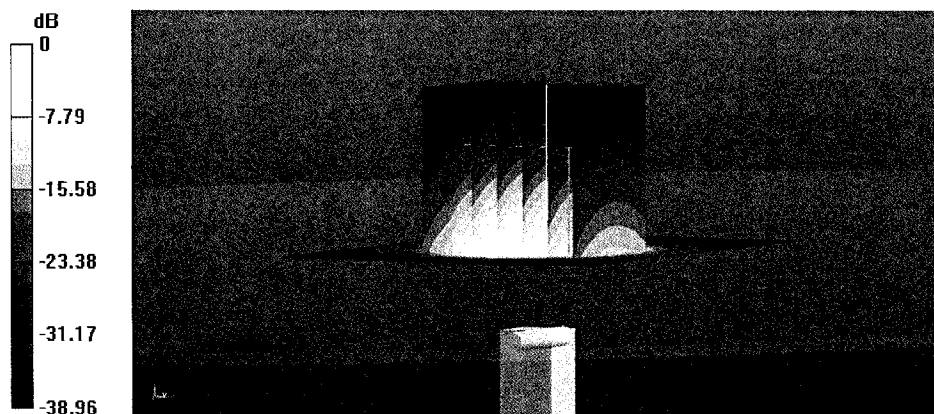
**System Performance Check at Frequency at 5800MHz/d=10mm, Pin=100mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 56.103 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 35.2 W/kg

**SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.09 W/kg**

Maximum value of SAR (measured) = 18.9 W/kg



0 dB = 18.9 W/kg = 12.76 dBW/kg