

Appendix B. Highest SAR Measurement results

2.4GHz WLAN – Head SAR Test

Test Laboratory: Shenzhen EMTEK Co.,Ltd.

Date: 01.07.2017

WLAN2.4GHz-802.11b 1Mbps-Side 4-0cm-Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz;Duty Cycle: 1:1

Medium: HSL_2450_170801

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.796$ S/m; $\epsilon_r = 37.481$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3970; ConvF(7.63, 7.63, 7.63); Calibrated: 07.09.2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1418; Calibrated: 05.09.2016
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1794
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/Unnamed procedure/Area Scan (61x61x1): Interpolated grid:

$dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.1408 W/kg

Configuration/Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement

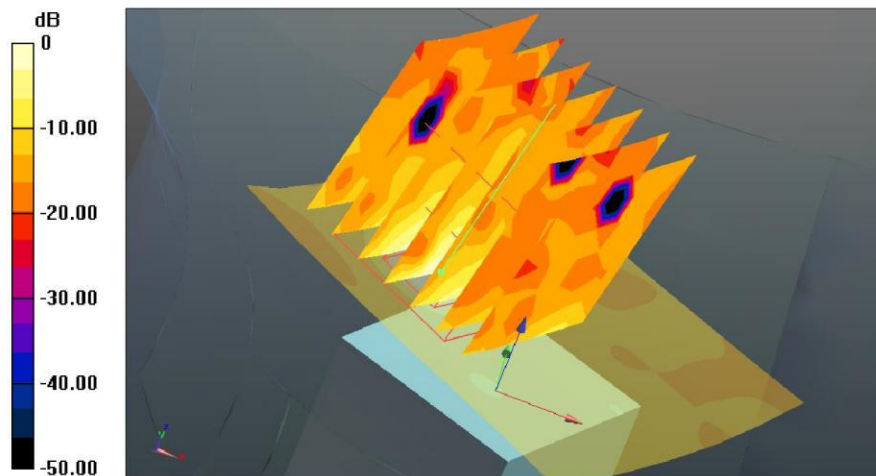
grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.822 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.1600 W/kg

SAR(1 g) = 0.092 W/kg; SAR(10 g) = 0.0231 W/kg

Maximum value of SAR (measured) = 0.1334 W/kg



0 dB = 0.0334 W/kg = -8.75 dBW/kg

Bluetooth – Head SAR Test

Test Laboratory: Shenzhen EMTEK Co.,Ltd.

Date: 01.07.2017

Bluetooth-1Mbps-Side 4-0cm-Ch39

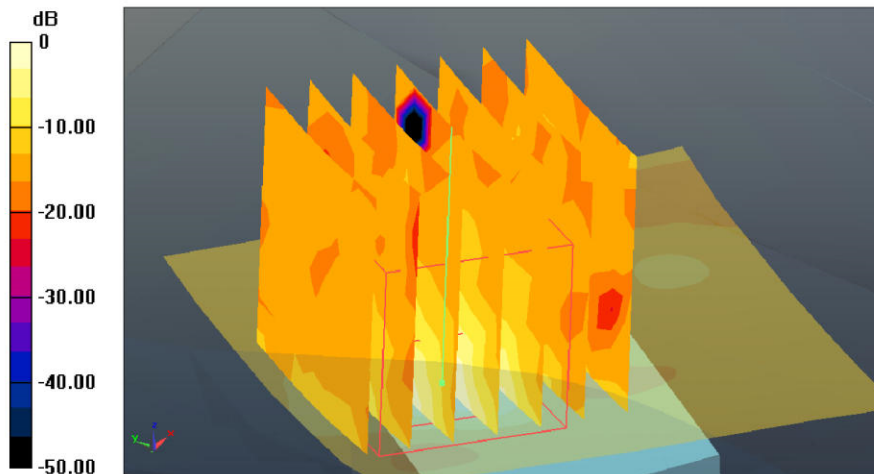
Communication System: UID 0, WIFI (0); Frequency: 2441 MHz; Duty Cycle: 1:1
Medium: HSL_2450_170801
Medium parameters used: $f = 2441$ MHz; $\sigma = 1.847$ S/m; $\epsilon_r = 37.26$; $\rho = 1000$ kg/m³
Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3970; ConvF(7.63, 7.63, 7.63); Calibrated: 07.09.2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1418; Calibrated: 05.09.2016
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1794
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/Unnamed procedure/Area Scan (61x61x1): Interpolated grid:
dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0962 W/kg

Configuration/Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.451 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.126 W/kg
SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.0103 W/kg
Maximum value of SAR (measured) = 0.0958 W/kg



2.4GHz WLAN – Body SAR Test

Test Laboratory: Shenzhen EMTEK Co.,Ltd.

Date: 03.07.2017

WLAN2.4GHz-802.11b 1Mbps-Back Surface-0cm-Ch11

Communication System: UID 0, WIFI (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: MSL_2450_170803

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.971$ S/m; $\epsilon_r = 53.056$; $\rho = 1000$ kg/m³

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3970; ConvF(7.57, 7.57, 7.57); Calibrated: 07.09.2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1418; Calibrated: 05.09.2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1231
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/Unnamed procedure/Area Scan (61x61x1): Interpolated grid:

$dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.244 W/kg

Configuration/Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement

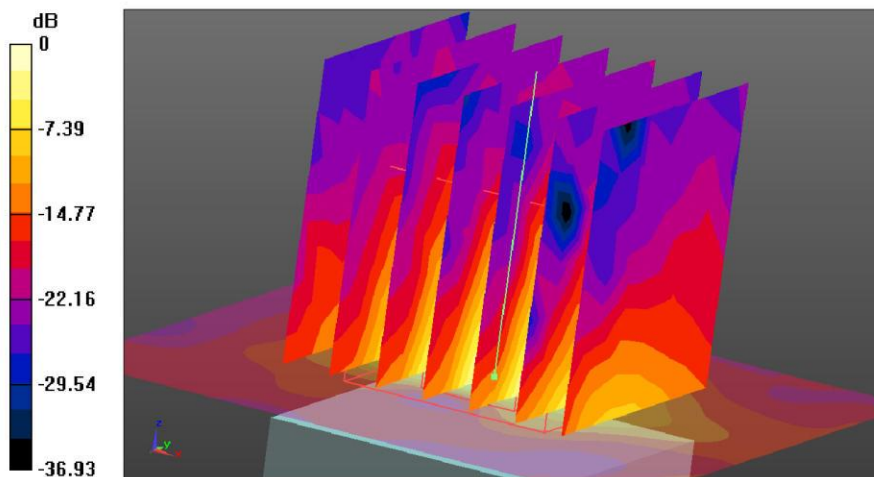
grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 10.108 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.400 W/kg

SAR(1 g) = 0.141 W/kg; SAR(10 g) = 0.041 W/kg

Maximum value of SAR (measured) = 0.246 W/kg



0 dB = 0.246 W/kg = -6.09 dBW/kg

Bluetooth – Body SAR Test

Test Laboratory: Shenzhen EMTEK Co.,Ltd.

Date: 03.07.2017

Bluetooth-1Mbps-Back Surface-0cm-Ch39

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1
Medium: MSL_2450_170803
Medium parameters used: $f = 2441$ MHz; $\sigma = 1.958$ S/m; $\epsilon_r = 53.07$; $\rho = 1000$ kg/m³
Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY Configuration:

- Probe: EX3DV4 - SN3970; ConvF(7.57, 7.57, 7.57); Calibrated: 07.09.2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1418; Calibrated: 05.09.2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1231
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/Unnamed procedure/Area Scan (61x61x1): Interpolated grid:
dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.144 W/kg

Configuration/Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.108 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.249 W/kg
SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.031 W/kg
Maximum value of SAR (measured) = 0.146 W/kg

