



Appendix B. SAR Measurement Plots

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Next to Mouth SAR
10-g Extremity SAR

Place of testing: HUAWEI SAR/HAC Lab

MIL-B19 2.4G Wi-Fi 802.11b 6CH Front Side 10mm with silica gel strap

DUT: MIL-B19; Type: Smart Watch; Serial: SAR2

Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle); Frequency: 2437 MHz; Duty Cycle: 1:1.00972

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.749$ S/m; $\epsilon_r = 41.014$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.23, 7.23, 7.23) @ 2437 MHz; Calibrated: 2021-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2021-04-26
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Next to Mouth/Area Scan (10x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.142 W/kg

Configuration/Next to Mouth/Zoom Scan (7x8x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.852 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.170 W/kg

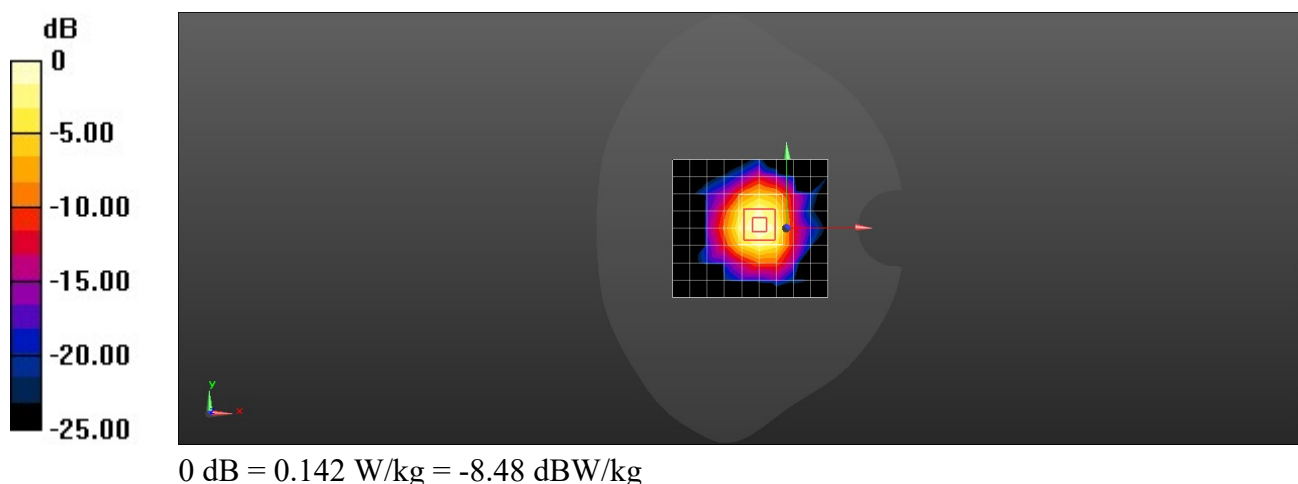
SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.049 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 57.2%

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.143 W/kg



Place of testing: HUAWEI SAR/HAC Lab

MIL-B19 2.4G Wi-Fi 802.11b 6CH Back Side 0mm with silica gel strap

DUT: MIL-B19; Type: Smart Watch; Serial: SAR2

Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle); Frequency: 2437 MHz; Duty Cycle: 1:1.00972

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.749$ S/m; $\epsilon_r = 41.014$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.23, 7.23, 7.23) @ 2437 MHz; Calibrated: 2021-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2021-04-26
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/10-g Extremity SAR/Area Scan (10x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.633 W/kg

Configuration/10-g Extremity SAR/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 15.31 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.814 W/kg

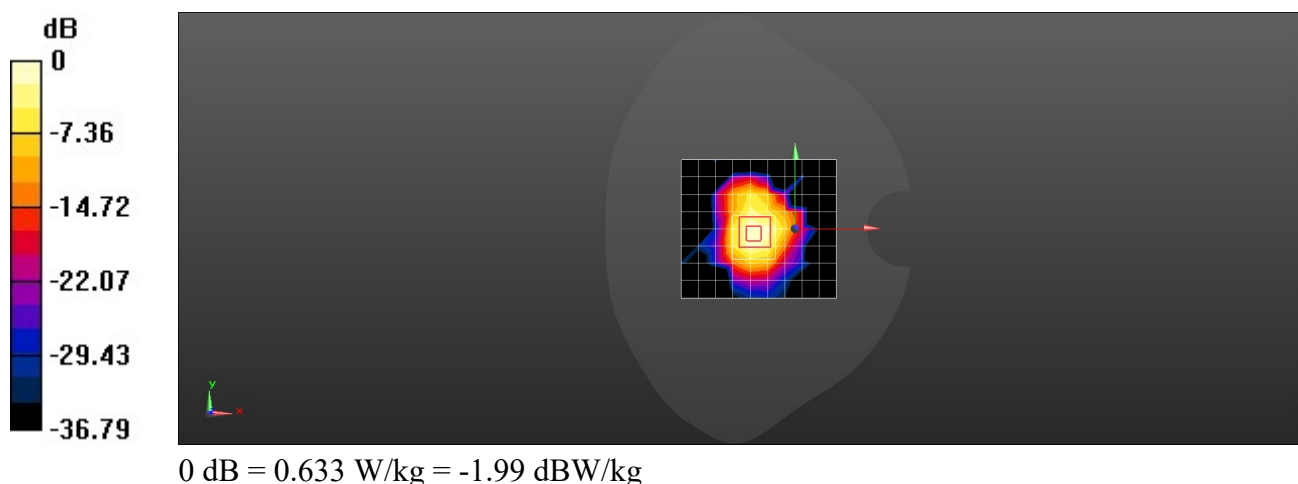
SAR(1 g) = 0.428 W/kg; SAR(10 g) = 0.210 W/kg

Smallest distance from peaks to all points 3 dB below = 10.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.664 W/kg



Place of testing: HUAWEI SAR/HAC Lab

MIL-B19 BT DH5 39CH Front Side 10mm

DUT: MIL-B19; Type: Smart Watch; Serial: SAR2

Communication System: UID 10032 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH5); Frequency: 2441 MHz; Duty Cycle: 1:1.3048

Medium parameters used (interpolated): $f = 2441$ MHz; $\sigma = 1.752$ S/m; $\epsilon_r = 41.005$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.23, 7.23, 7.23) @ 2441 MHz; Calibrated: 2021-03-03
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn852; Calibrated: 2021-04-26
- Phantom: SAM5; Type: SAM; Serial: 1892
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Next to Mouth/Area Scan (10x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0240 W/kg

Configuration/Next to Mouth/Zoom Scan (7x7x5)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.203 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.0470 W/kg

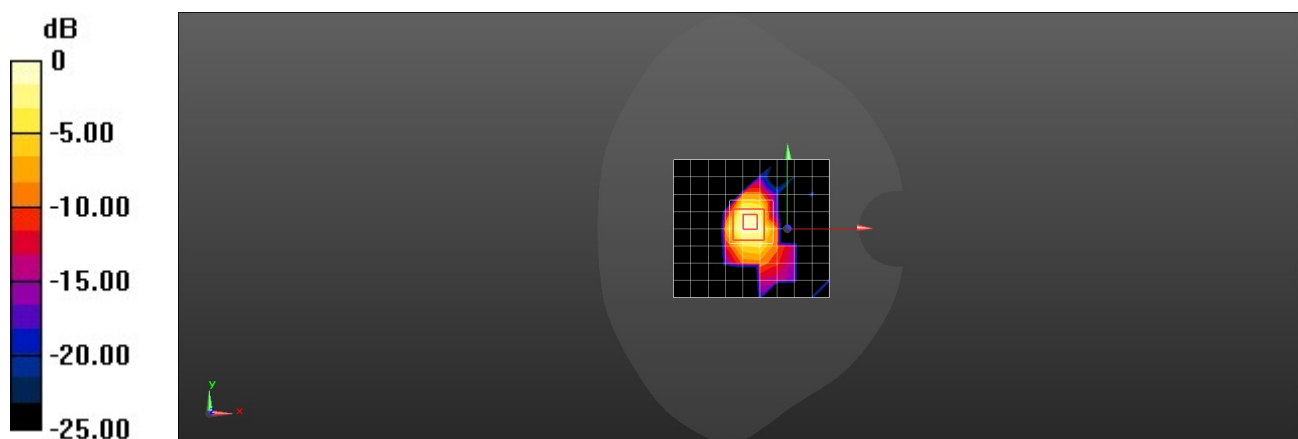
SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00695 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 50.6%

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0263 W/kg



0 dB = 0.0240 W/kg = -16.20 dBW/kg