

Appendix B

Detailed Test Results

SDR 2.4G for Body & Limbs

SDR 5G for Body & Limbs



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Test Laboratory: SGS-SAR Lab

ARDCF1 2.4GHz 10M Top side MIMO 0mm

DUT: ARDCF1; Type: Remote Controller;

Communication System: UID 0, SDR 2.4G (0); Frequency: 2437.5 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium parameters used (interpolated): $f = 2437.5$ MHz; $\sigma = 1.788$ S/m; $\epsilon_r = 39.866$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3789; ConvF(6.98, 6.98, 6.98); Calibrated: 2025-01-15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1663; Calibrated: 2024-04-16
- Phantom: SAM 6; Type: SAM Twin; Serial: 1913
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (8x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 4.49 W/kg

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

Reference Value = 7.361 V/m; Power Drift = 0.04 dB

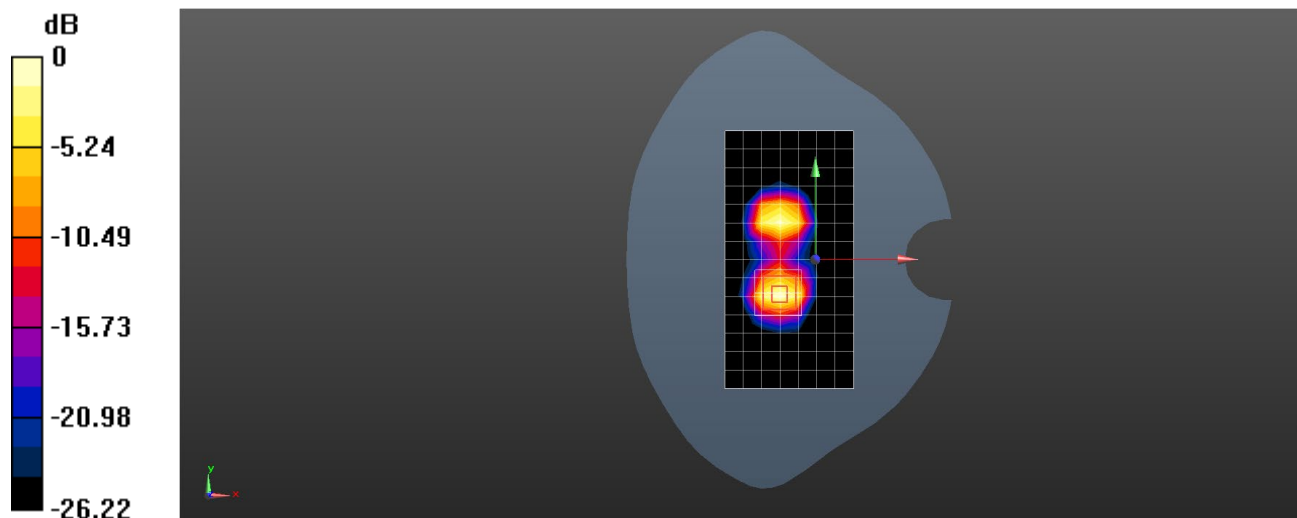
Peak SAR (extrapolated) = 6.02 W/kg

SAR(1 g) = 2.42 W/kg; SAR(10 g) = 0.941 W/kg

Smallest distance from peaks to all points 3 dB below = 6 mm

Ratio of SAR at M2 to SAR at M1 = 42%

Maximum value of SAR (measured) = 4.62 W/kg



0 dB = 4.62 W/kg = 6.65 dBW/kg

Test Laboratory: SGS-SAR Lab

ARDCF1 2.4GHz 10M Bottom side MIMO 0mm

DUT: ARDCF1; Type: Remote Controller;

Communication System: UID 0, SDR 2.4G (0); Frequency: 2437.5 MHz; Duty Cycle: 1:1

Medium: HSL2450; Medium parameters used (interpolated): $f = 2437.5$ MHz; $\sigma = 1.788$ S/m; $\epsilon_r = 39.866$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3789; ConvF(6.98, 6.98, 6.98); Calibrated: 2025-01-15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1663; Calibrated: 2024-04-16
- Phantom: SAM 6; Type: SAM Twin; Serial: 1913
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (8x15x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0382 W/kg

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

Reference Value = 3.127 V/m; Power Drift = 0.01 dB

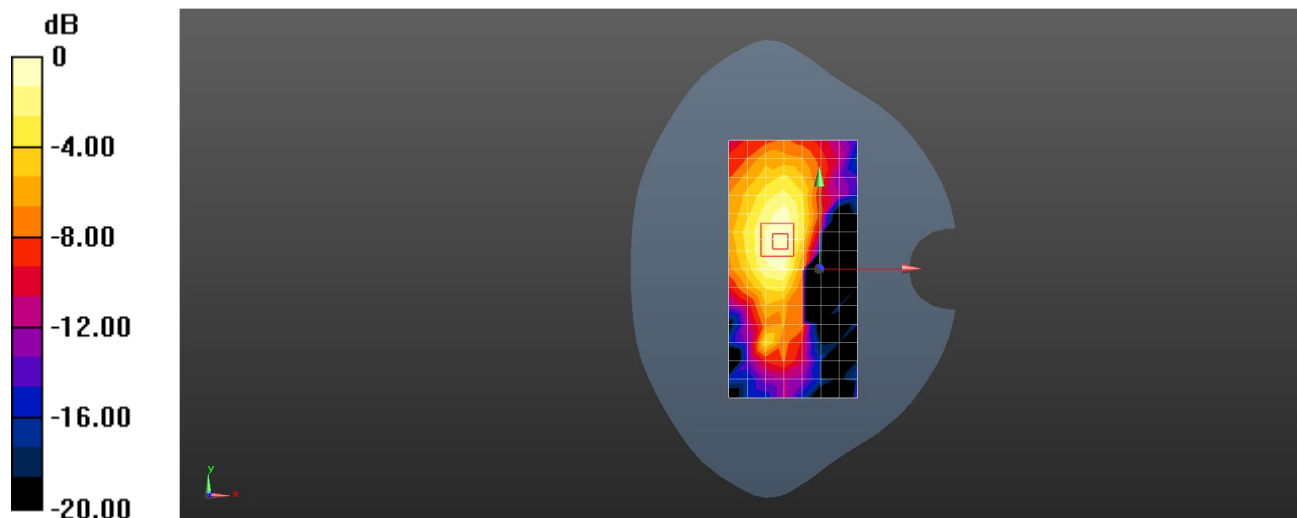
Peak SAR (extrapolated) = 0.0440 W/kg

SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.013 W/kg

Smallest distance from peaks to all points 3 dB below = 13.7 mm

Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 0.0351 W/kg



0 dB = 0.0351 W/kg = -14.55 dBW/kg

Test Laboratory: SGS-SAR Lab

ARDCF1 5.8GHz 20M Top side MIMO 0mm

DUT: ARDCF1; Type: Remote Controller;

Communication System: UID 0, SDR 5G (0); Frequency: 5787.5 MHz; Duty Cycle: 1:1

Medium: HSL5G; Medium parameters used (interpolated): $f = 5787.5$ MHz; $\sigma = 5.278$ S/m; $\epsilon_r = 34.568$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3789; ConvF(4.67, 4.67, 4.67); Calibrated: 2025-01-15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1663; Calibrated: 2024-04-16
- Phantom: SAM 6; Type: SAM Twin; Serial: 1913
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (9x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 56.7 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.273 V/m; Power Drift = 0.01 dB

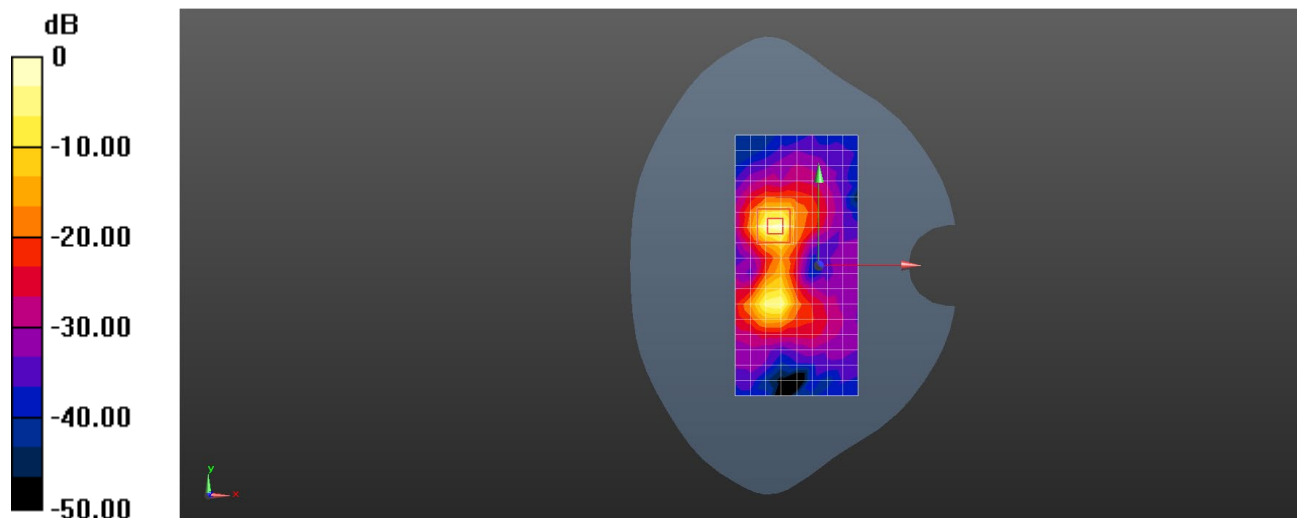
Peak SAR (extrapolated) = 131 W/kg

SAR(1 g) = 23.5 W/kg; SAR(10 g) = 5.01 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

Ratio of SAR at M2 to SAR at M1 = 49.8%

Maximum value of SAR (measured) = 72.7 W/kg



0 dB = 72.7 W/kg = 18.62 dBW/kg

Test Laboratory: SGS-SAR Lab

ARDCF1 5.8GHz 20M Bottom side MIMO 0mm

DUT: ARDCF1 ; Type: Remote Controller;

Communication System: UID 0, SDR 5G (0); Frequency: 5787.5 MHz; Duty Cycle: 1:1

Medium: HSL5G; Medium parameters used: $f = 5787.5$ MHz; $\sigma = 5.278$ S/m; $\epsilon_r = 34.568$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3789; ConvF(4.67, 4.67, 4.67); Calibrated: 2025-01-15
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1663; Calibrated: 2024-04-16
- Phantom: SAM 6; Type: SAM Twin; Serial: 1913
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (9x18x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.395 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.053 V/m; Power Drift = -0.02 dB

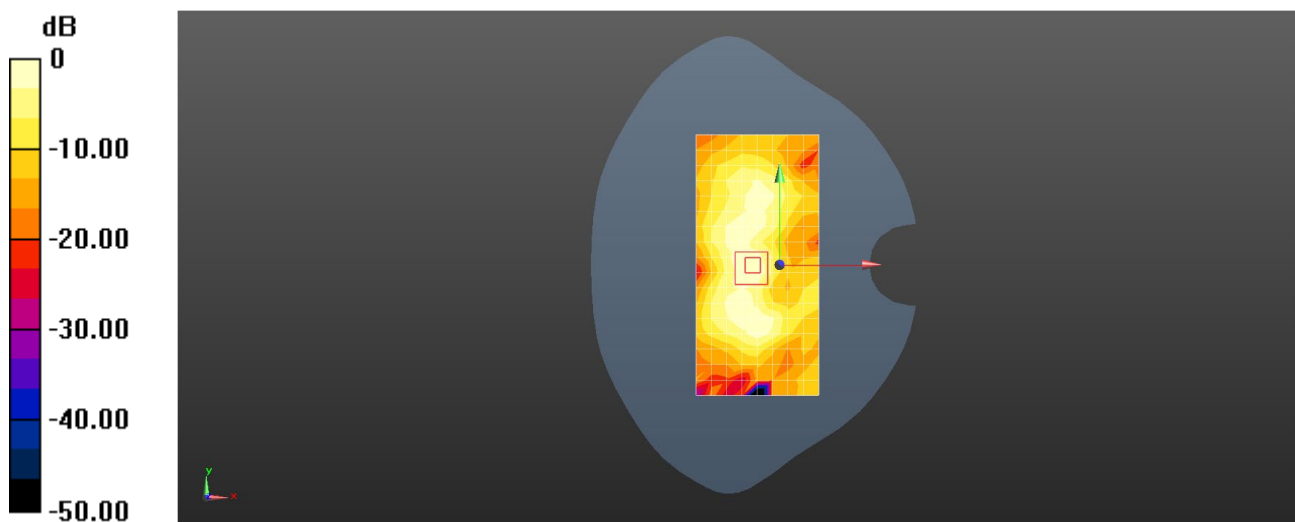
Peak SAR (extrapolated) = 0.797 W/kg

SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.058 W/kg

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.1%

Maximum value of SAR (measured) = 0.407 W/kg



0 dB = 0.395 W/kg = -4.03 dBW/kg