# Appendix A

## Detailed System Check Results

| 1. System Performance Check |
|---|
| System Performance Check 2450 MHz |
| System Performance Check 5250 MHz |
| System Performance Check 5600 MHz |
| System Performance Check 5750 MHz |
| System Performance Check 6500 MHz |

Date: 2025/07/01

Test Laboratory: SGS-SAR Lab

## System Performance Check 2450MHz Head

### DUT: D2450V2; Type: D2450V2; Serial: 922

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

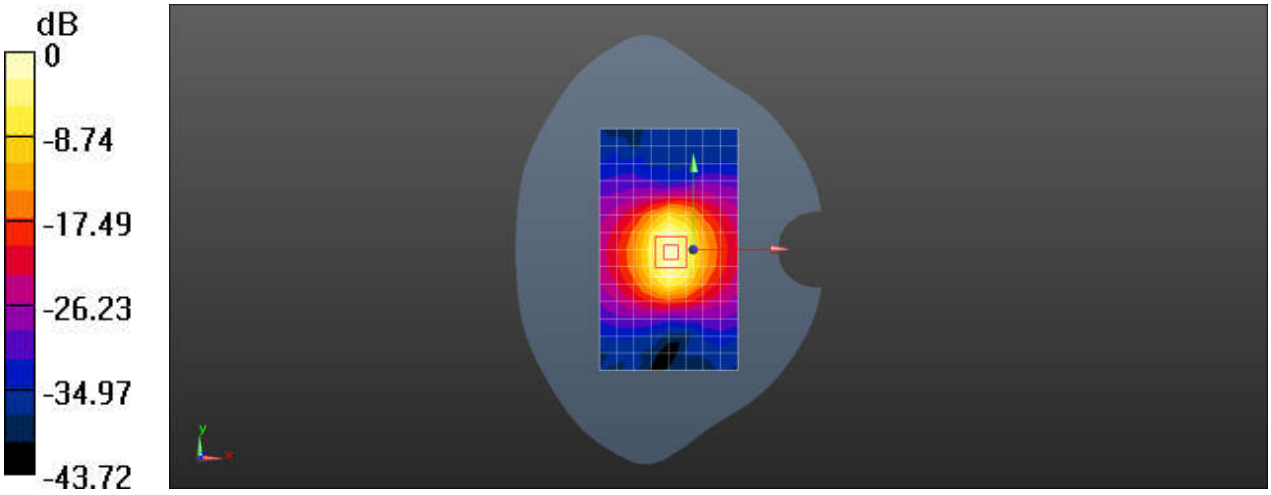
Medium: HSL2450;Medium parameters used: f = 2450 MHz; $\sigma$ = 1.819 S/m; $\varepsilon_r$ = 39.924; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.98, 7.98, 7.98); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1740; Calibrated: 2025/02/17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=250mW/Area Scan (9x15x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 19.3 W/kg

**Body/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 86.56 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 24.5 W/kg
**SAR(1 g) = 12.5 W/kg; SAR(10 g) = 5.72 W/kg**
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 50.3%
Maximum value of SAR (measured) = 19.8 W/kg




0 dB = 19.3 W/kg = 12.86 dBW/kg

Date: 2025/07/03

Test Laboratory: SGS-SAR Lab

## System Performance Check 5.25GHz Head

### DUT: D5GHzV2; Type: D5GHzV2; Serial: 1174

Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1

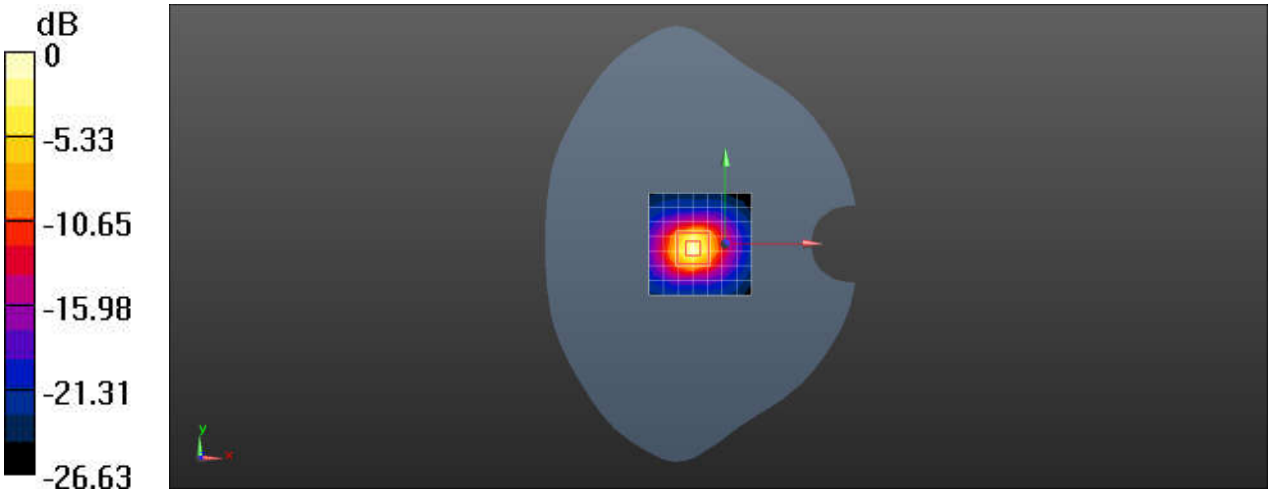
Medium: HSL5G;Medium parameters used: f = 5250 MHz; $\sigma$ = 4.844 S/m; $\varepsilon_r$ = 36.853; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.6, 5.6, 5.6); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1740; Calibrated: 2025/02/17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 19.7 W/kg

**Body/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 58.24 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 33.2 W/kg
**SAR(1 g) = 8.17 W/kg; SAR(10 g) = 2.35 W/kg**
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 64.6%
Maximum value of SAR (measured) = 20.9 W/kg




0 dB = 19.7 W/kg = 12.95 dBW/kg

Date: 2025/07/05

Test Laboratory: SGS-SAR Lab

## System Performance Check 5.6GHz Head

### DUT: D5GHzV2; Type: D5GHzV2; Serial: 1174

Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1

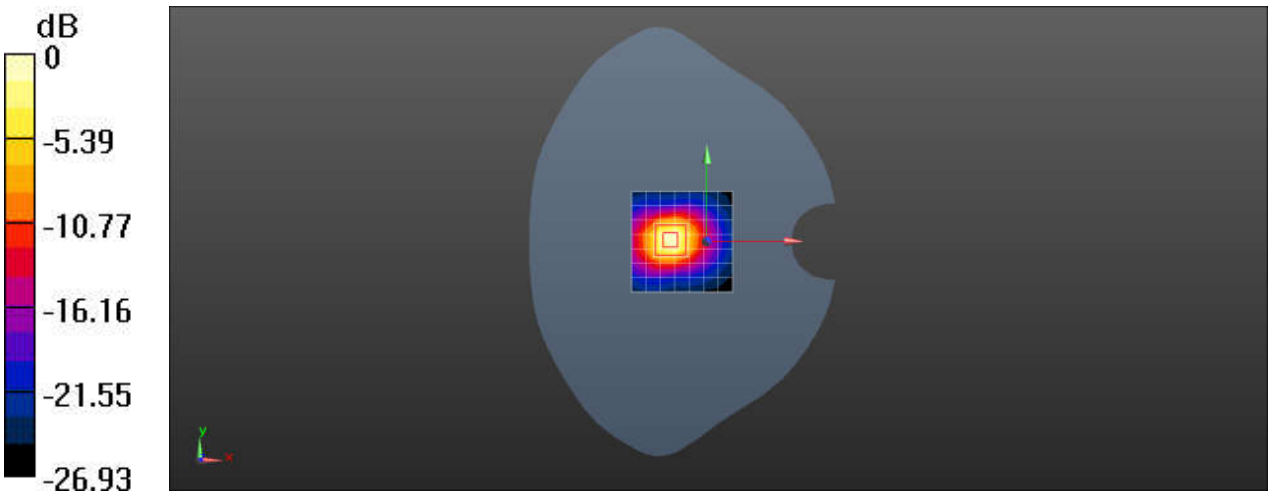
Medium: HSL5G;Medium parameters used: f = 5600 MHz; $\sigma$ = 5.26 S/m; $\varepsilon_r$ = 35.95; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5, 5, 5); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1740; Calibrated: 2025/02/17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 16.0 W/kg

**Body/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 46.31 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 37.3 W/kg
**SAR(1 g) = 8.12 W/kg; SAR(10 g) = 2.31 W/kg**
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 61%
Maximum value of SAR (measured) = 21.7 W/kg




0 dB = 16.0 W/kg = 12.05 dBW/kg

Date: 2025/07/07

Test Laboratory: SGS-SAR Lab

## System Performance Check 5.75GHz Head

### DUT: D5GHzV2; Type: D5GHzV2; Serial: 1174

Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1

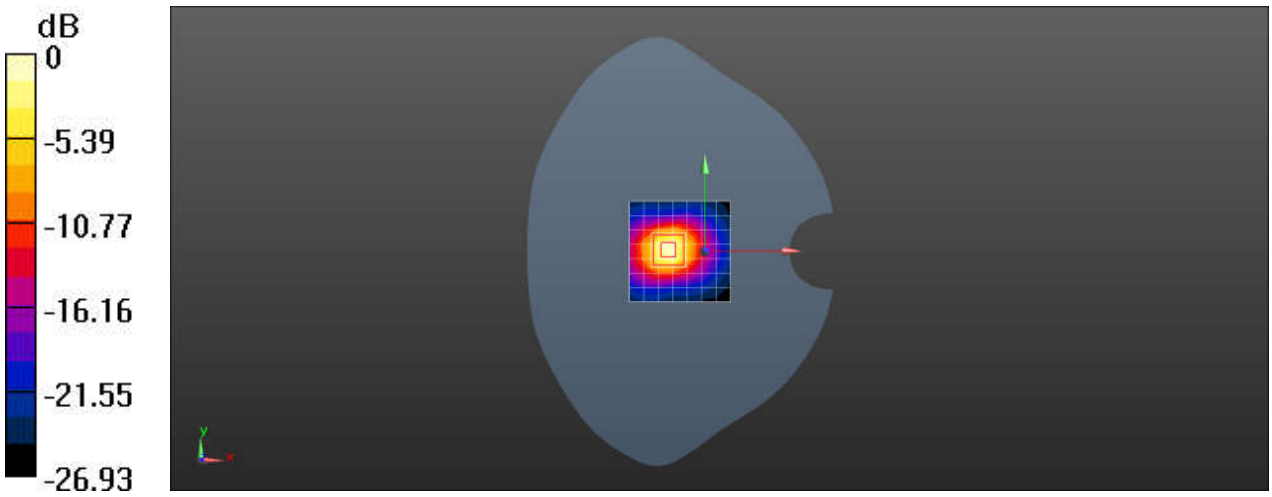
Medium: HSL5G;Medium parameters used: f = 5750 MHz; $\sigma$ = 5.424 S/m; $\varepsilon_r$ = 35.523; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.06, 5.06, 5.06); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1740; Calibrated: 2025/02/17
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Body/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (8x8x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 15.8 W/kg

**Body/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 45.87 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 35.7 W/kg
**SAR(1 g) = 8.05 W/kg; SAR(10 g) = 2.29 W/kg**
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 61.9%
Maximum value of SAR (measured) = 21.4 W/kg




0 dB = 15.8 W/kg = 11.99 dBW/kg

Test Laboratory: SGS-SAR Lab Date: 2025-07-08

**System Performance Check 6500MHz**

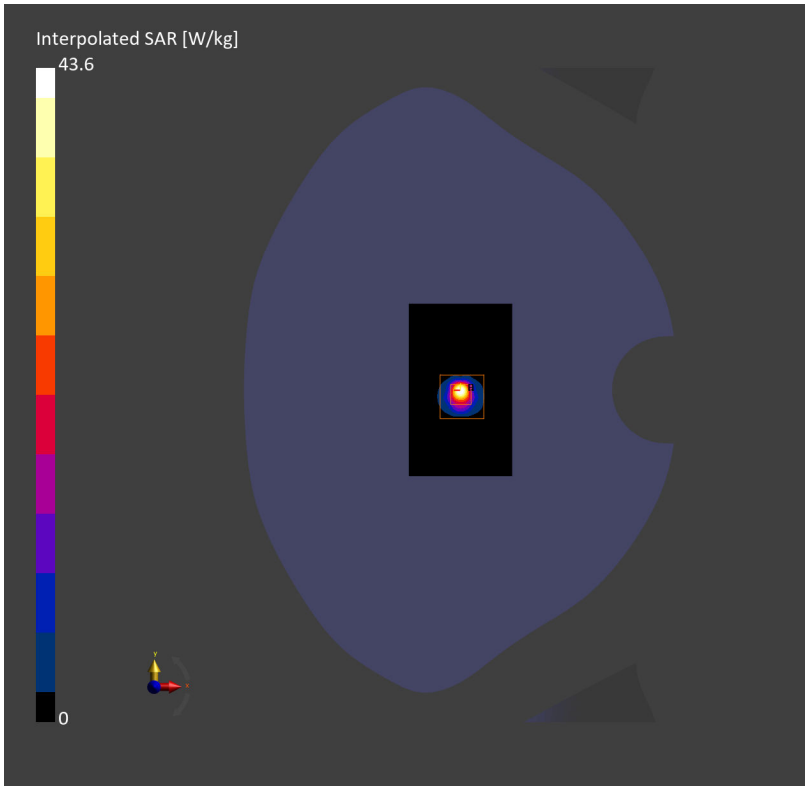
Communication System: ; Frequency: 6500.000
Medium: HSL. Medium parameters used: f= 6500.000 MHz; $\sigma$= 6.20 S/m; $\varepsilon_r$ = 34.2

DASY8 Configuration:
- Probe: EX3DV4 - SN7735; ConvF(5.4, 5.62, 5.52); Calibrated: 2025-01-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1826; Calibrated: 2025-02-17
- Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2155
- Measurement Software: cDASY8 V16.4.0.5005

**Area Scan (51.0 mm x 85.0 mm)**: Measurement Grid: 8.5 mm x 8.5 mm
SAR (1g) = 29.3 W/kg; SAR (8g) = 6.56 W/kg; SAR (10g) = 5.57 W/kg;

**Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm)**: Measurement Grid: 3.4 mm x 3.4 mm x 1.4 mm
Power Drift = -0.08 dB
**SAR (1g) = 30.7 W/kg; SAR (8g) = 6.89 W/kg; SAR (10g) = 5.72 W/kg;**

| | |
|---|---|
| psAPD (4.0cm2, sq) [W/m2] | 139 |
| M2/M1 [%] | 59.6 |
| Dist 3dB Peak [mm] | 4.6 |



- End of the Appendix -