

APPENDIX B: SAR DIPOLE VERIFICATION PLOTS

ELEMENT

DUT: Dipole 2450.000 MHz; Type: D2450V2 - SN797

Communication System: UID: 0, CW; Frequency: 2450.000 MHz
Medium: Head Simulating Liquid; Medium parameters used:
f = 2450.000 MHz; cond = 1.75 S/m; perm = 39.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 12/08/2025; Ambient Temp: 22.0°C; Tissue Temp: 23.1°C

Probe: EX3DV4 - SN7488; ConvF:(7.82,7.63,7.61); Calibrated: 2025-03-07
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1415; Calibrated: 2025-03-11
Phantom: Twin-SAM V5.0; Serial: 1757
Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

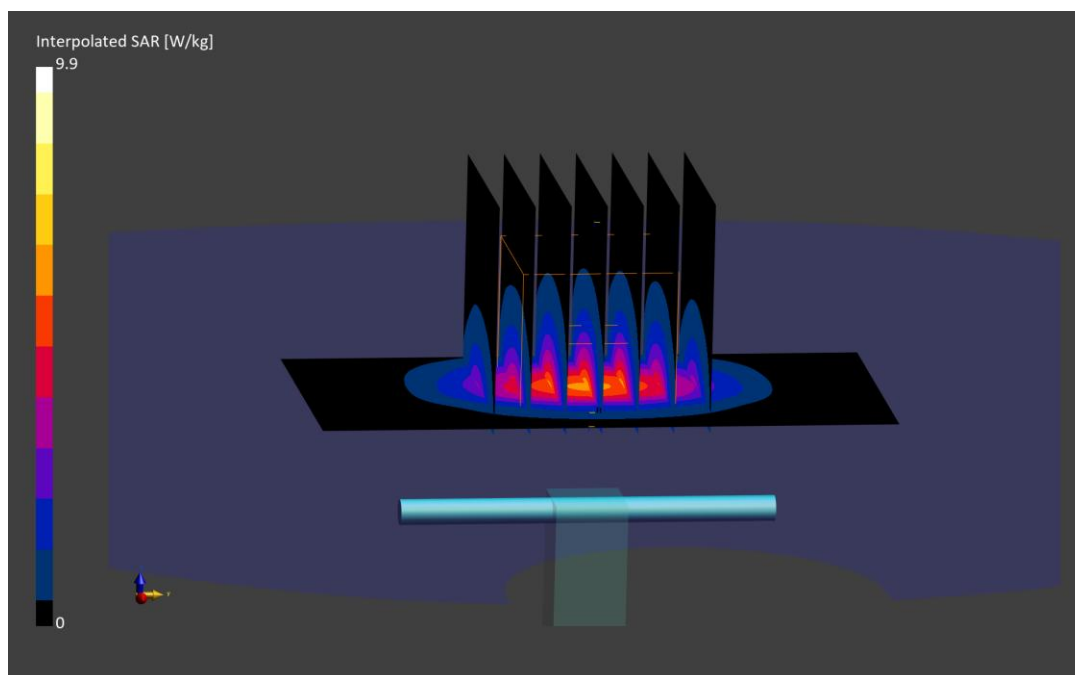
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 9.90 W/kg

SAR(1 g) = 4.90 W/kg; SAR(10 g) = 2.30 W/kg

Deviation (1 g) = -6.84%; Deviation (10 g) = -7.26%



ELEMENT

DUT: Dipole 2450.000 MHz; Type: D2450V2 - SN797

Communication System: UID: 0, CW; Frequency: 2450.000 MHz
Medium: Head Simulating Liquid; Medium parameters used:
 $f = 2450.000$ MHz; $\text{cond} = 1.75$ S/m; $\text{perm} = 39.4$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 12/18/2025; Ambient Temp: 21.1°C; Tissue Temp: 23.0°C

Probe: EX3DV4 - SN7488; ConvF:(7.82,7.63,7.61); Calibrated: 2025-03-07
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1415; Calibrated: 2025-03-11
Phantom: Twin-SAM V5.0; Serial: 1757
Measurement SW: DASY Module SAR V16.4.0.5005

2450.0 MHz System Verification at 20.0 dBm (100 mW)

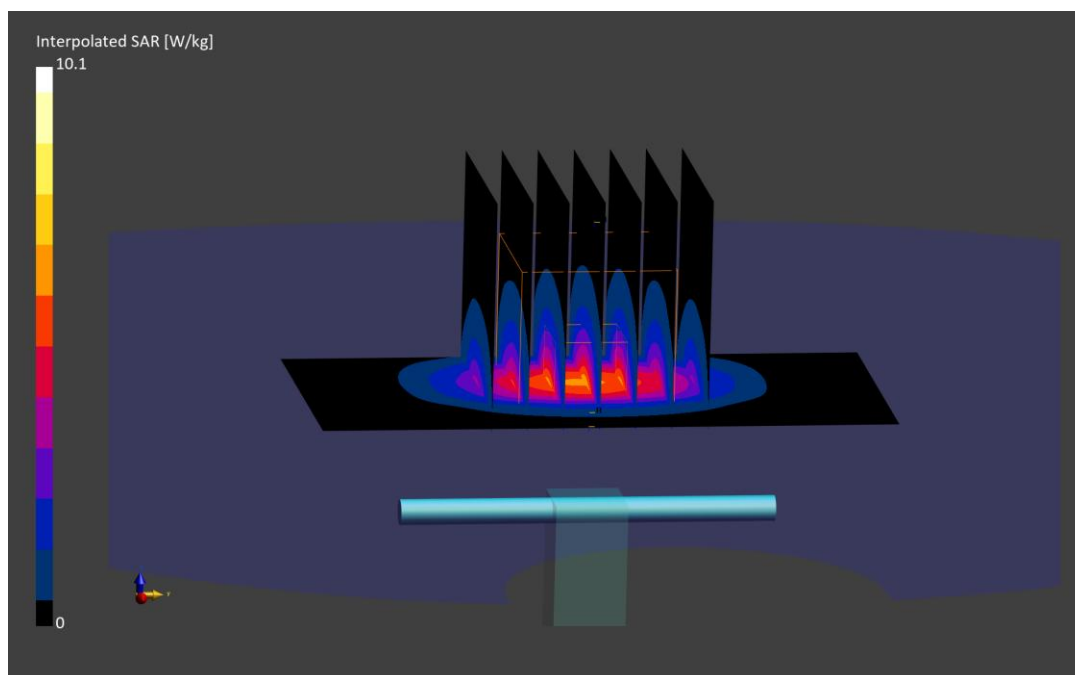
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (30.0 x 30.0 x 31.2): Measurement grid: $dx=5.0$ mm, $dy=5.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 5.09 W/kg; SAR(10 g) = 2.40 W/kg

Deviation (1 g) = -3.23%; Deviation (10 g) = -3.23%



ELEMENT

DUT: Dipole 5250.000 MHz; Type: D5GHzV2 - SN1057

Communication System: UID: 0, CW; Frequency: 5250.000 MHz
Medium: Head Simulating Liquid; Medium parameters used:
f = 5250.000 MHz; cond = 4.54 S/m; perm = 35.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/19/2026; Ambient Temp: 19.1°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7661; ConvF:(5.7,6.07,6.06); Calibrated: 2025-06-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1558; Calibrated: 2025-06-05
Phantom: Twin-SAM V8.0; Serial: 2065
Measurement SW: DASY Module SAR V16.4.0.5005

5250.0 MHz System Verification at 17.0 dBm (50 mW)

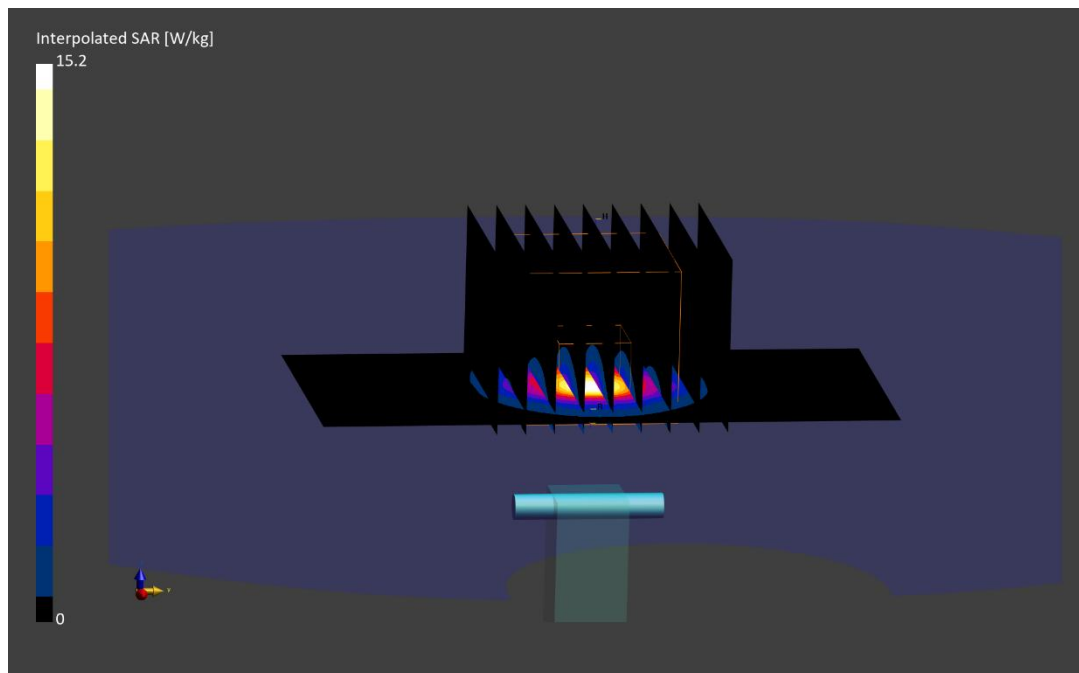
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (32.0 x 32.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.2 W/kg

SAR(1 g) = 3.81 W/kg; SAR(10 g) = 1.09 W/kg

Deviation (1 g) = -4.03%; Deviation (10 g) = -3.96%



ELEMENT

DUT: Dipole 5600.000 MHz; Type: D5GHzV2 - SN1057

Communication System: UID: 0, CW; Frequency: 5600.000 MHz
Medium: Head Simulating Liquid; Medium parameters used:
 $f = 5600.000$ MHz; $\text{cond} = 4.93$ S/m; $\text{perm} = 34.7$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/19/2026; Ambient Temp: 19.1°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7661; ConvF:(5.13,5.46,5.46); Calibrated: 2025-06-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1558; Calibrated: 2025-06-05
Phantom: Twin-SAM V8.0; Serial: 2065
Measurement SW: DASY Module SAR V16.4.0.5005

5600.0 MHz System Verification at 17.0 dBm (50 mW)

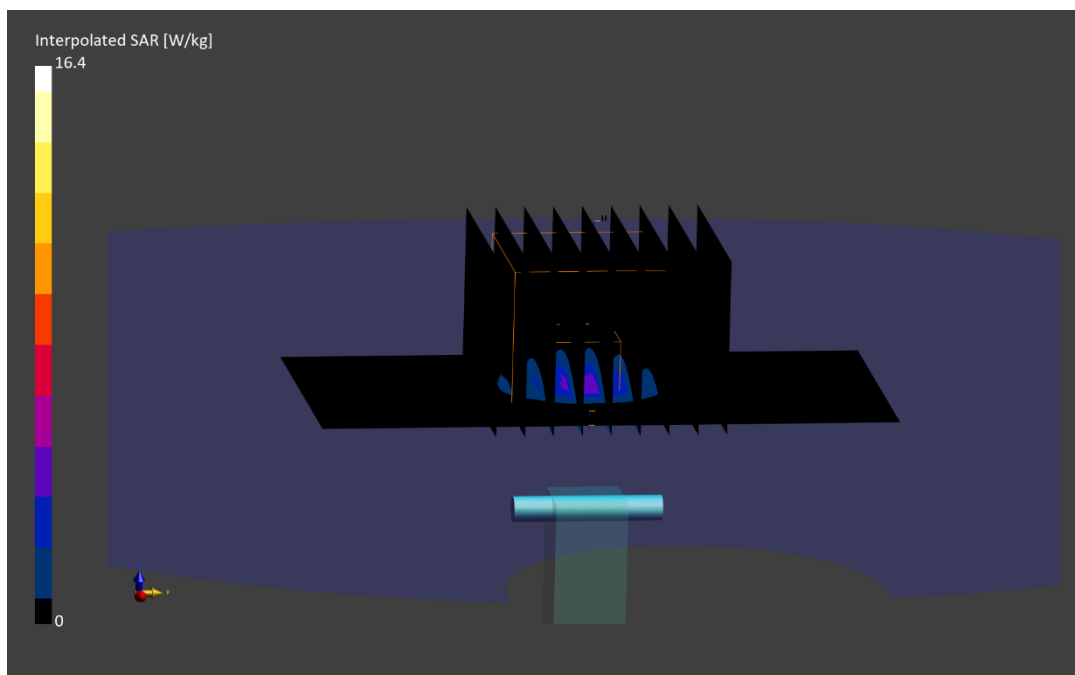
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (32.0 x 32.0 x 22.9): Measurement grid: $dx=4.0$ mm, $dy=4.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 3.88 W/kg; SAR(10 g) = 1.11 W/kg

Deviation (1 g) = -6.28%; Deviation (10 g) = -5.93%



ELEMENT

DUT: Dipole 5750.000 MHz; Type: D5GHzV2 - SN1057

Communication System: UID: 0, CW; Frequency: 5750.000 MHz
Medium: Head Simulating Liquid; Medium parameters used:
 $f = 5750.000$ MHz; $\text{cond} = 5.11$ S/m; $\text{perm} = 34.5$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/19/2026; Ambient Temp: 19.1°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7661; ConvF:(5.27,5.61,5.61); Calibrated: 2025-06-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1558; Calibrated: 2025-06-05
Phantom: Twin-SAM V8.0; Serial: 2065
Measurement SW: DASY Module SAR V16.4.0.5005

5750.0 MHz System Verification at 17.0 dBm (50 mW)

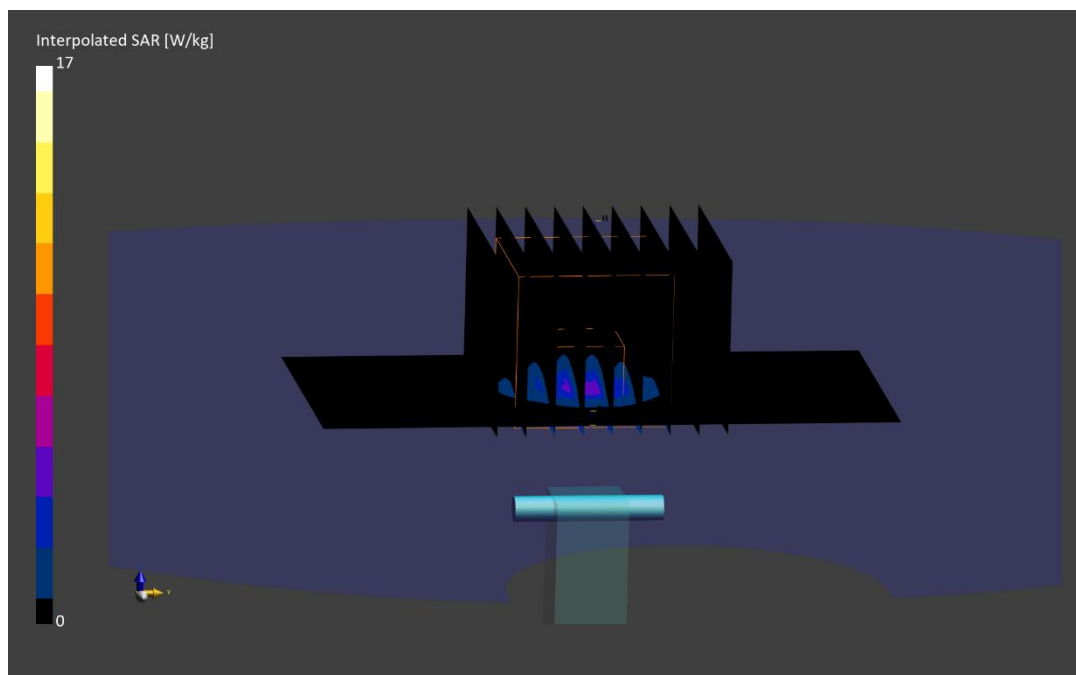
Area Scan (40.0 x 80.0): Measurement grid: $dx=10.0$ mm, $dy=10.0$ mm

Zoom Scan (32.0 x 32.0 x 22.9): Measurement grid: $dx=4.0$ mm, $dy=4.0$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 3.83 W/kg; SAR(10 g) = 1.09 W/kg

Deviation (1 g) = -4.01%; Deviation (10 g) = -3.96%



ELEMENT

DUT: Dipole 5850.000 MHz; Type: D5GHzV2 - SN1057

Communication System: UID: 0, CW; Frequency: 5850.000 MHz
Medium: Head Simulating Liquid; Medium parameters used:
f = 5850.000 MHz; cond = 5.22 S/m; perm = 34.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 01/19/2026; Ambient Temp: 19.1°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7661; ConvF:(5.07,5.39,5.38); Calibrated: 2025-06-11
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1558; Calibrated: 2025-06-05
Phantom: Twin-SAM V8.0; Serial: 2065
Measurement SW: DASY Module SAR V16.4.0.5005

5850.0 MHz System Verification at 17.0 dBm (50 mW)

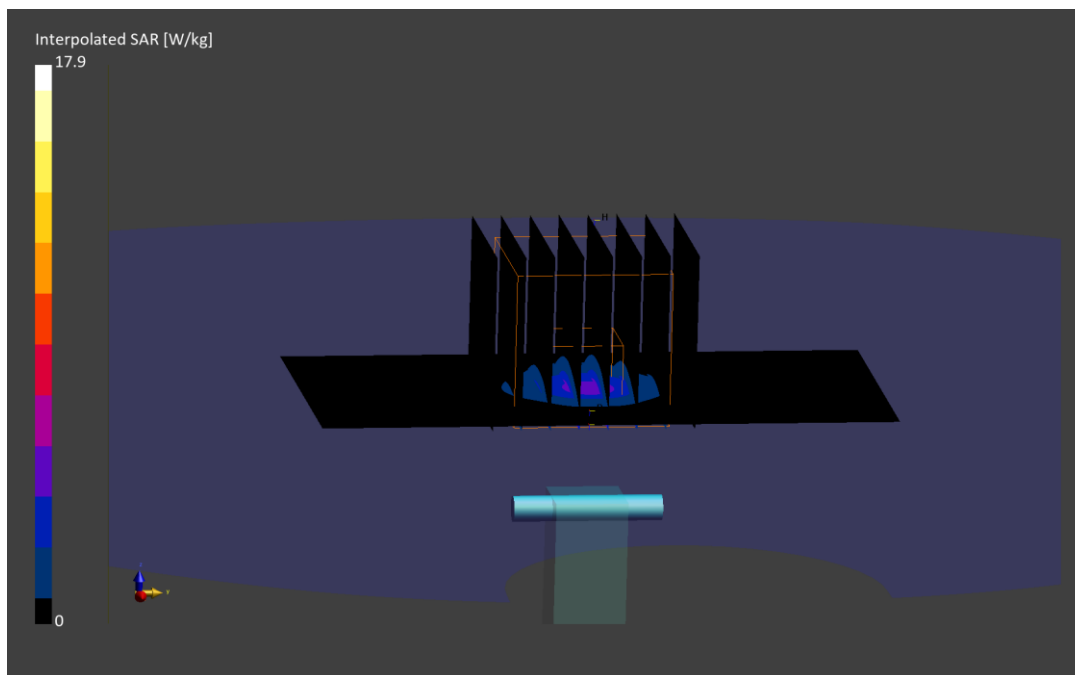
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (24.0 x 28.0 x 22.9): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 3.97 W/kg; SAR(10 g) = 1.13 W/kg

Deviation (1 g) = -2.58%; Deviation (10 g) = -1.74%



ELEMENT

DUT: Dipole 6500.000 MHz; Type: D6.5GHzV2 - SN1018

Communication System: UID: 0, CW; Frequency: 6500.000 MHz
Medium: Head Simulating Liquid; Medium parameters used:
f = 6500.000 MHz; cond = 5.86 S/m; perm = 33.4; density = 1000 kg/m³
Phantom Section: Flat; Space: 5 mm

Test Date: 01/12/2026; Ambient Temp: 19.2°C; Tissue Temp: 19.0°C

Probe: EX3DV4 - SN7570; ConvF:(5.35,5.65,5.29); Calibrated: 2025-02-10
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4ip Sn1638; Calibrated: 2025-02-07
Phantom: Twin-SAM V8.0; Serial: 1979
Measurement SW: DASY Module SAR V16.4.0.5005

6500.0 MHz System Verification at 14.0 dBm (25 mW)

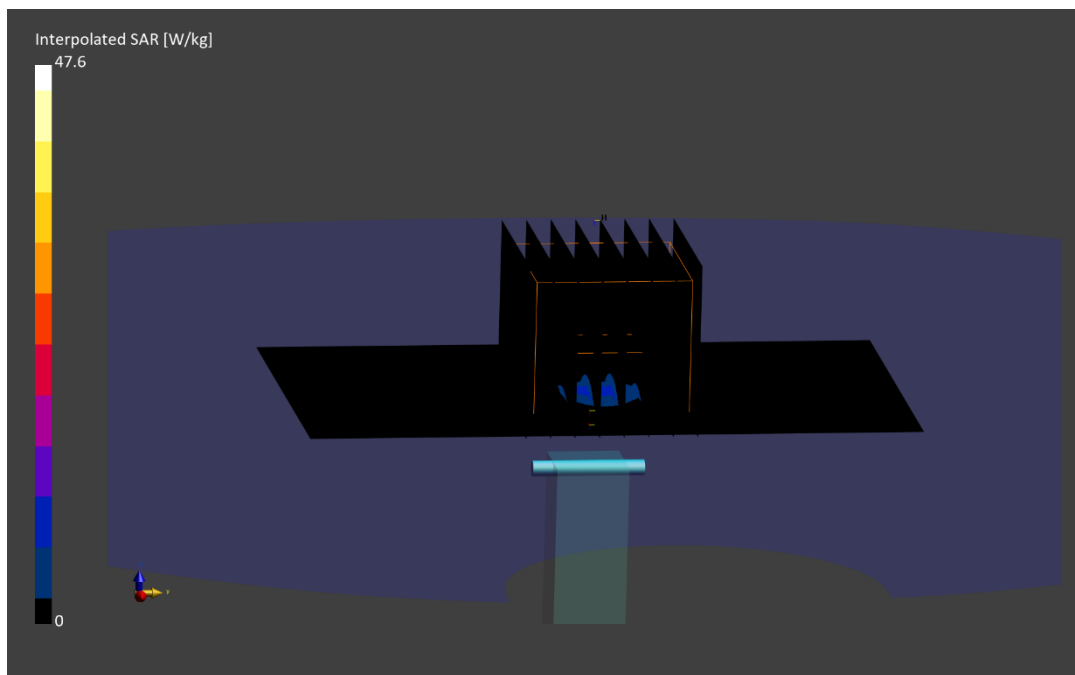
Area Scan (51.0 x 85.0): Measurement grid: dx=8.5 mm, dy=8.5 mm

Zoom Scan (27.2 x 23.8 x 22.9): Measurement grid: dx=3.4 mm, dy=3.4 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 47.6 W/kg

SAR(1 g) = 7.58 W/kg; SAR(10 g) = 1.39 W/kg; APD(4.0 cm²) = 33.6 W/m²

Deviation (1 g) = 1.74%; Deviation (10 g) = -0.18%; Deviation (APD) = -0.44%



Date: 2026-01-27

Measurement Group

Device Under Test Properties

DUT	Serial Number
10 GHz Verification Source	1002

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	10.00	Validation band	10000.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9421, 2025-03-12	DAE4 - SN1213, 2025-12-03

Software Setup

Software	Software Version
cDASY6 Module mmWave	3.2.0.1840

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	10.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm²]	4.00
pS _{tot} avg [W/m²]	53.0
pS _n avg [W/m²]	52.6
E _{peak} [V/m]	157
Deviation [dB] pS _{tot}	-0.08
Deviation [dB] pS _n	-0.10

