

## APPENDIX B: SYSTEM VERIFICATION PLOTS

# ELEMENT

**DUT: Dipole 6500.0 MHz; Type: D6.5GHzV2 - SN1018**

Communication System: UID: 0, CW; Frequency: 6500.0 MHz  
Medium: 6000 Head; Medium parameters used:  
f = 6500.0 MHz; cond = 6.11 S/m; perm = 33.5; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 5 mm

Test Date: 07/12/2023; Ambient Temp: 24.0°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7718; ConvF:(5.15,5.15,5.15); Calibrated: 2023-04-18  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1368; Calibrated: 2023-04-14  
Phantom: Twin-SAM V5.0; Serial: 1759  
Measurement SW: DASY Module SAR V16.2.0.1425

## 6500.0 MHz System Verification at 14.0 dBm (25 mW)

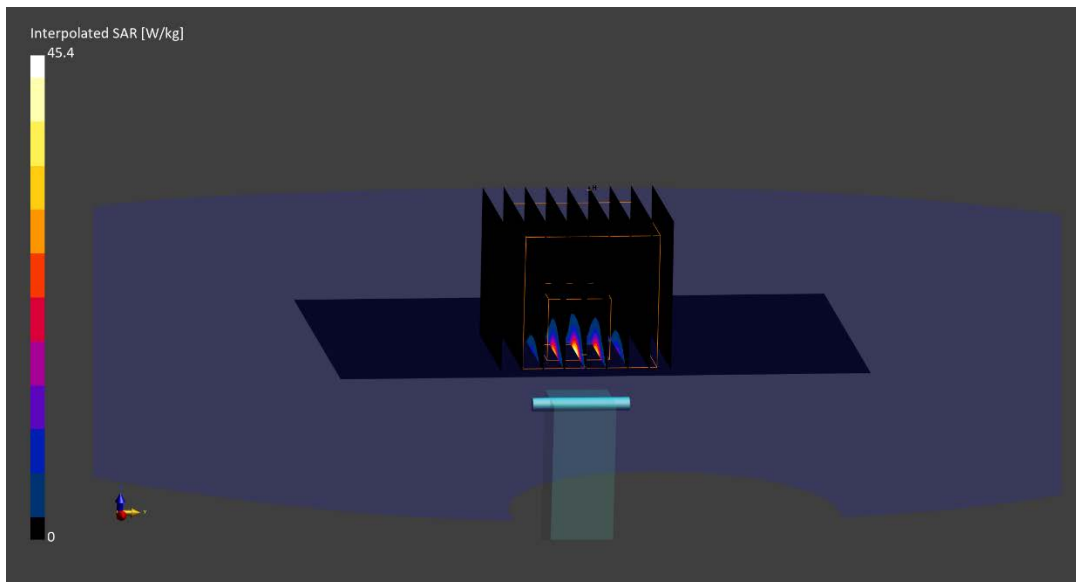
**Area Scan (51.0 x 85.0):** Measurement grid: dx=8.5 mm, dy=8.5 mm

**Zoom Scan (22.0 x 22.0 x 22.0):** Measurement grid: dx=3.4 mm, dy=3.4 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 45.4 W/kg

**SAR(1 g) = 7.11 W/kg; SAR(10 g) = 1.32 W/kg; APD(4 cm<sup>2</sup>) = 32.2 W/m<sup>2</sup>**

Deviation (1 g) = -2.94%; Deviation (10 g) = -2.40%; Deviation (4 cm<sup>2</sup>) = -1.68%



# ELEMENT

**DUT: Dipole 6500.0 MHz; Type: D6.5GHzV2 - SN1018**

Communication System: UID: 0, CW; Frequency: 6500.0 MHz  
Medium: 6000 Head; Medium parameters used:  
f = 6500.0 MHz; cond = 6.01 S/m; perm = 33.5; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 5 mm

Test Date: 07/16/2023; Ambient Temp: 22.0°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7718; ConvF:(5.15,5.15,5.15); Calibrated: 2023-04-18  
Sensor-Surface: 1.4mm (VMS + 6p)  
Electronics: DAE4 Sn1368; Calibrated: 2023-04-14  
Phantom: Twin-SAM V5.0; Serial: 1759  
Measurement SW: DASY Module SAR V16.2.0.1425

## 6500.0 MHz System Verification at 14.0 dBm (25 mW)

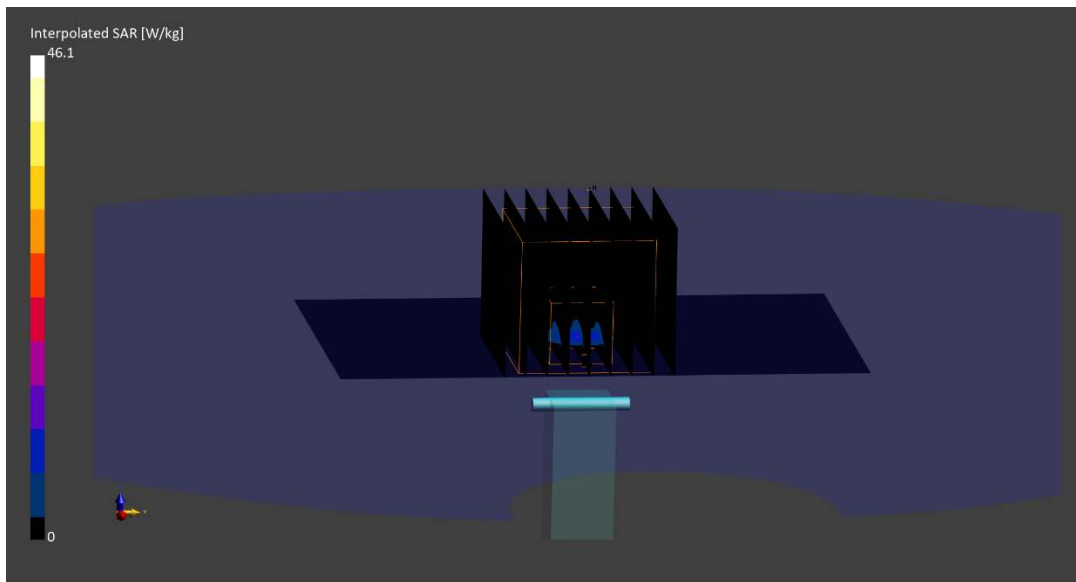
**Area Scan (51.0 x 85.0):** Measurement grid: dx=8.5 mm, dy=8.5 mm

**Zoom Scan (22.0 x 22.0 x 22.0):** Measurement grid: dx=3.4 mm, dy=3.4 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 46.1 W/kg

**SAR(1 g) = 7.09 W/kg; SAR(10 g) = 1.31 W/kg; APD(4 cm<sup>2</sup>) = 31.9 W/m<sup>2</sup>**

Deviation (1 g) = -3.21%; Deviation (10 g) = -3.14%; Deviation (4 cm<sup>2</sup>) = -2.60%



Date: 2023-07-06

10 GHz System Verification

### Device Under Test Properties

DUT	Serial Number
10 GHz Verification Source	1004

### Exposure Conditions

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

### Hardware/Software Setup

Probe, Calibration Date	DAE, Calibration Date	Software	Software Version
EUmWV3 - SN9407, 2022-10-17	DAE4ip - SN1638, 2022-10-13	cDASY6 Module mmWave	3.2.0.1840

### Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0

### Measurement Results

Scan Type	5G Scan
Avg. Area [cm <sup>2</sup> ]	4.00
pS <sub>tot</sub> avg [W/m <sup>2</sup> ]	55.4
pS <sub>n</sub> avg [W/m <sup>2</sup> ]	55.3
E <sub>peak</sub> [V/m]	153
Deviation [dB] pS <sub>tot</sub>	0.50
Deviation [dB] pS <sub>n</sub>	0.49

