

## APPENDIX B: SYSTEM VERIFICATION PLOTS

# ELEMENT

**DUT: Dipole 6500.0 MHz; Type: D6.5GHzV2 - SN1019**

Communication System: UID: 0, CW; Frequency: 6500.0 MHz

Medium: 6000 Head; Medium parameters used:

f = 6500.0 MHz; cond = 5.87 S/m; perm = 34.0; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 5 mm

Test Date: 07/15/2022; Ambient Temp: 21.9°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7421; ConvF:(5.3,5.3,5.3); Calibrated: 2022-03-22

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn604; Calibrated: 2022-03-22

Phantom: Twin-SAM V4.0; Serial: 1275

Measurement SW: DASY Module SAR V16.0.2.136

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

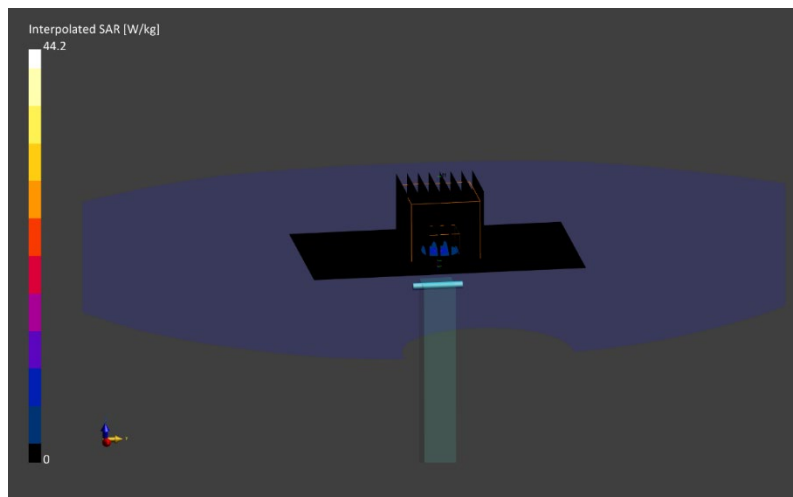
**Area Scan (51.0 x 85.0):** Measurement grid: dx=8.5 mm, dy=8.5 mm

**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) = 44.2 W/kg

**SAR(1 g) = 7.27 W/kg; SAR(10 g) = 1.33 W/kg; APD(4 cm<sup>2</sup>) = 32.4 W/m<sup>2</sup>**

Deviation (1 g) = 2.04%; Deviation (10 g) = 1.14%; Deviation (4 cm<sup>2</sup>) = -0.31%



# ELEMENT

Date: 07/19/2022

## 10 GHz System Verification

### Device Under Test Properties

DUT	Serial Number
10 GHz Verification Source	1006

### 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 - SN9364, 6/16/2022	DAE4 SN1333, 10/20/2021

### Software Setup

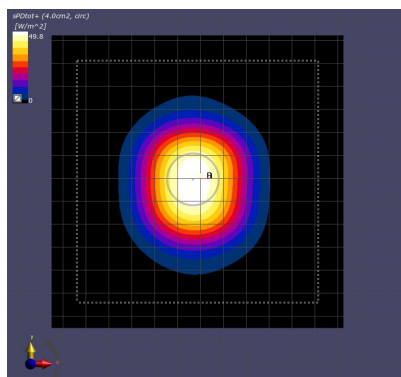
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

### Scans Setup

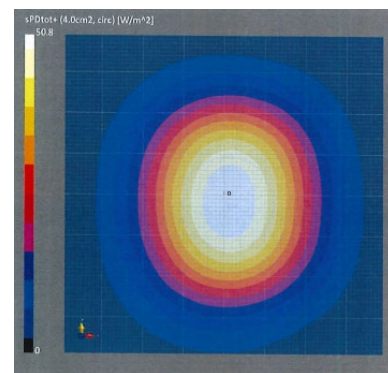
Scan Type	5G Scan
Grid Extents [mm]	120 x 120
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.00

### Measurement Results

Scan Type	5G Scan
Avg. Area [cm <sup>2</sup> ]	4.00
pS <sub>tot</sub> avg [W/m <sup>2</sup> ]	49.8
pS <sub>n</sub> avg [W/m <sup>2</sup> ]	49.3
E <sub>peak</sub> [V/m]	145.0
pS <sub>tot</sub> Deviation (dB)	-0.09
pS <sub>n</sub> Deviation (dB)	-0.13



10 GHz System Verification



Calibration Certificate