

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 = 6.18 S/m; perm = 34.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 5 mm

Test Date: 07/05/2022; Ambient Temp: 21.0°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN3914; ConvF:(5.5,5.5,5.5); Calibrated: 2022-05-17
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn728; Calibrated: 2022-05-10
Phantom: Twin-SAM V5.0; Serial: 1759
Measurement SW: DASY Module SAR V16.0.2.136

6500.0 MHz System Verification at 14 dBm (25 mW)

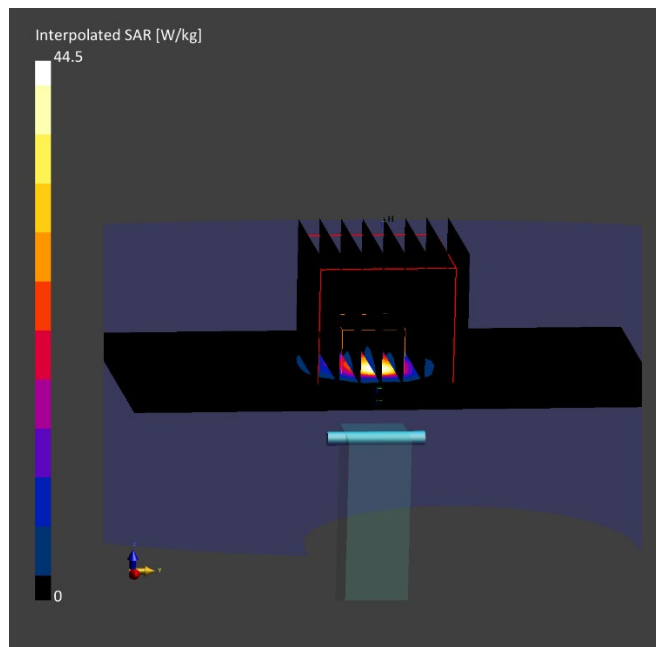
Area Scan (51.0 x 85.0): Measurement grid: dx=8.5 mm, dy=8.5 mm

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) = 44.5 W/kg

SAR(1 g) = 7.08 W/kg; SAR(10 g) = 1.30 W/kg; APD(4 cm²) = 31.8 W/m²

Deviation (1 g) = -2.34%; Deviation (10 g) = -2.26%; Deviation (4 cm²) = -2.90%



ELEMENT

Date: 07/05/2022

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	Validation band	10000.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmWV4 - SN9541, 05/22/2022	DAE4ip SN1638, 11/11/2021

Software Setup

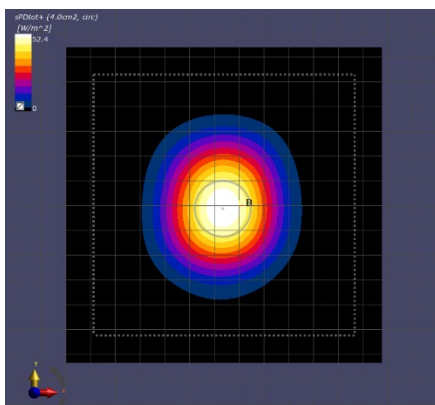
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

Scans Setup

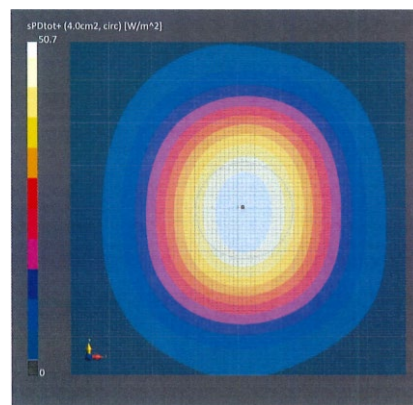
Scan Type	5G Scan
Grid Extents [mm]	120 x 120
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.00

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	52.4
pS _n avg [W/m ²]	52.2
E _{peak} [V/m]	147
Deviation (dB)	0.14



10 GHz System Verification



Calibration Certificate