

## 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 = 5.94 S/m; perm = 34.0; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 5 mm

Test Date: 06/15/2022; Ambient Temp: 21.9°C; Tissue Temp: 20.8°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)

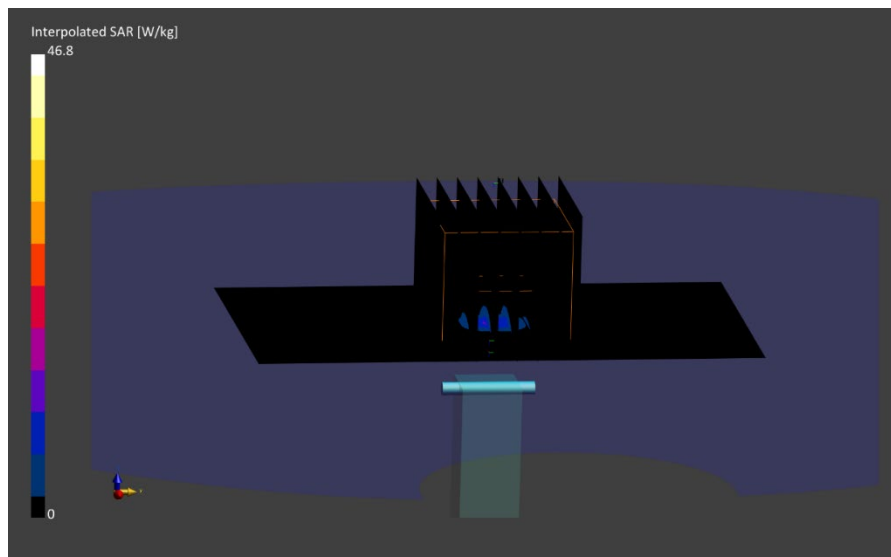
**Area Scan (51.0 x 85.0):** Measurement grid: dx=8.5 mm, dy=8.5 mm

**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) = 46.8 W/kg

**SAR(1 g) = 7.61 W/kg; APD (4 cm<sup>2</sup>) = 34.1 W/m<sup>2</sup>**

Deviation (1 g) = 6.81%; Deviation (4 cm<sup>2</sup>) = 4.92%



# 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 = 5.82 S/m; perm = 34.0; density = 1000 kg/m<sup>3</sup>  
Phantom Section: Flat; Space: 5 mm

Test Date: 08/29/2022; Ambient Temp: 21.9°C; Tissue Temp: 20.3°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)

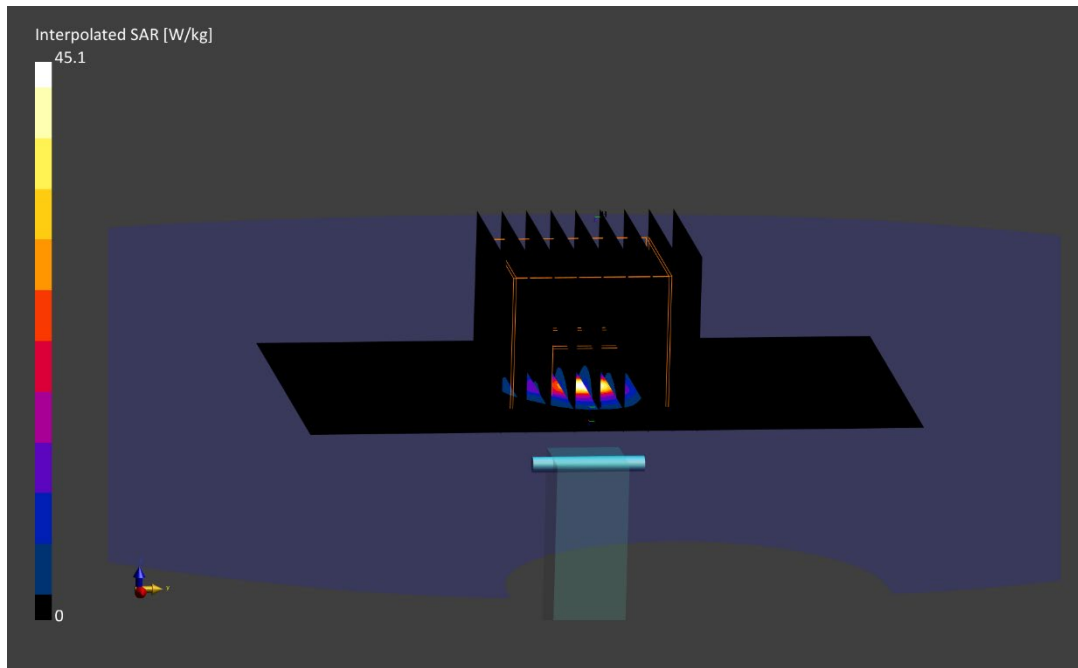
**Area Scan (51.0 x 85.0):** Measurement grid: dx=8.5 mm, dy=8.5 mm

**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) = 45.1 W/kg

**SAR(1 g) = 7.38 W/kg; APD (4 cm<sup>2</sup>) = 33.0 W/m<sup>2</sup>**

Deviation (1 g) = 3.58%; Deviation (4 cm<sup>2</sup>) = 1.54%



# ELEMENT

Date: 07/07/2022

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 - SN9416, 12/13/2021	DAE4 SN1333, 10/20/2021

## Software Setup

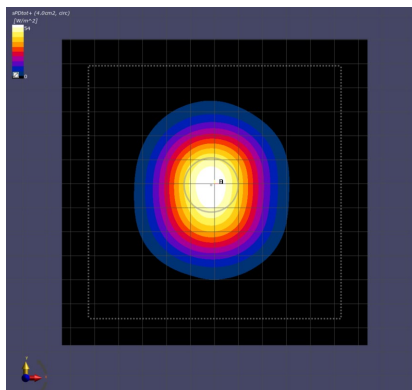
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

## Scans Setup

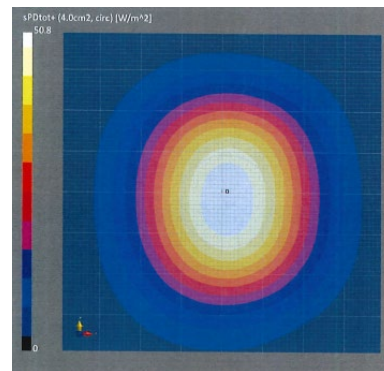
Scan Type	5G Scan
Grid Extents [mm]	120 x 120
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.00

## Measurement Results

Scan Type	5G Scan
Avg. Area [cm <sup>2</sup> ]	4.00
pS <sub>tot</sub> avg [W/m <sup>2</sup> ]	54.0
pS <sub>n</sub> avg [W/m <sup>2</sup> ]	53.8
E <sub>peak</sub> [V/m]	152.0
pS <sub>tot</sub> Deviation (dB)	0.27
pS <sub>n</sub> Deviation (dB)	0.25



10 GHz System Verification



Calibration Certificate

# ELEMENT

Date: 08/26/2022

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
EUmWV3 - SN9364, 6/16/2022	DAE4 SN1333, 10/20/2021

## Software Setup

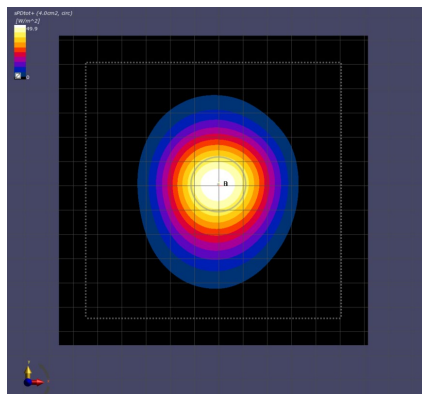
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

## Scans Setup

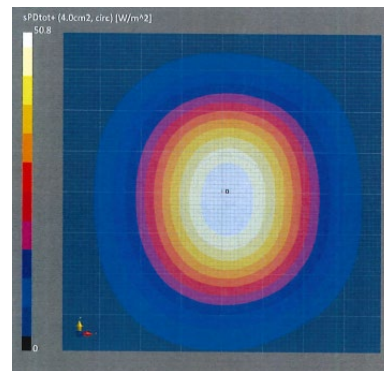
Scan Type	5G Scan
Grid Extents [mm]	120 x 120
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.00

## Measurement Results

Scan Type	5G Scan
Avg. Area [cm <sup>2</sup> ]	4.00
pS <sub>tot</sub> avg [W/m <sup>2</sup> ]	49.9
pS <sub>n</sub> avg [W/m <sup>2</sup> ]	49.6
E <sub>peak</sub> [V/m]	147.0
pS <sub>tot</sub> Deviation (dB)	-0.08
pS <sub>n</sub> Deviation (dB)	-0.10



10 GHz System Verification



Calibration Certificate