

## APPENDIX A: POWER DENSITY TEST PLOTS

# Element

Date: 06/10/2022

Antenna K; Beam 147; H; High Ch.; CW; Closed

## Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMF721U	VDP0652M	Portable Handset

## Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	LEFT	2.00	n258	25200.00

## Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9364, 06/21/2021	DAE4ip SN1638, 11/11/2021

## Software Setup

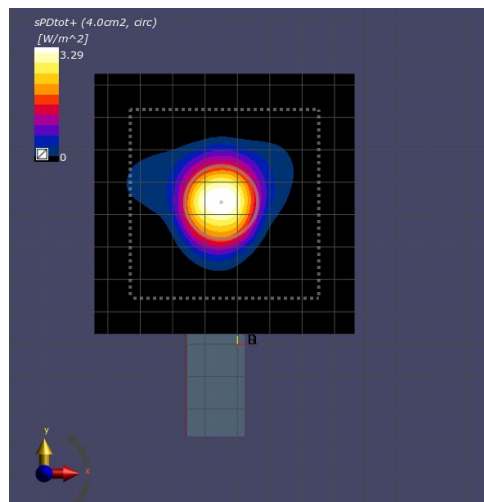
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	80x80
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Avg. Area [cm <sup>2</sup> ]	4.00
pS <sub>tot</sub> avg [W/m <sup>2</sup> ]	3.29
pS <sub>n</sub> avg [W/m <sup>2</sup> ]	2.62
E <sub>peak</sub> [V/m]	56.9
Power Drift [dB]	-0.04



# Element

Date: 06/08/2022

Antenna K; Beam 148; H; Low Ch.; CW; Open

## Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMF721U	VDP0653M	Portable Handset

## Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	LEFT	2.00	n258	24350.00

## Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9407, 12/13/2021	DAE4ip SN1639, 01/21/2022

## Software Setup

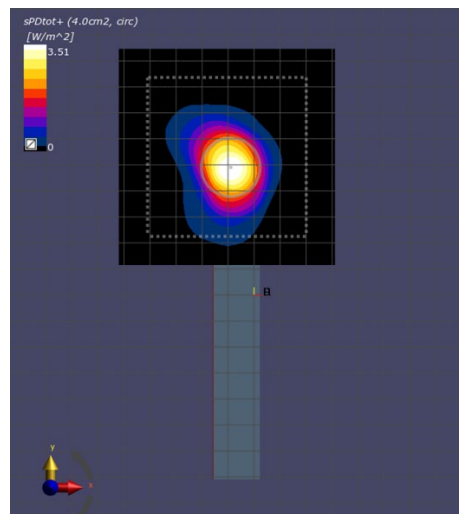
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	80x80
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Avg. Area [cm <sup>2</sup> ]	4.00
pS <sub>tot</sub> avg [W/m <sup>2</sup> ]	3.51
pS <sub>n</sub> avg [W/m <sup>2</sup> ]	2.31
E <sub>peak</sub> [V/m]	66.3
Power Drift [dB]	0..11



# Element

Date: 06/08/2022

Antenna K; Beam 147; H; Low Ch.; CW; Closed

## Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMF721U	VDP0652M	Portable Handset

## Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	2.00	n261	27550.10

## Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmWV3 - SN9364, 06/21/2021	DAE4ip SN1638, 11/11/2021

## Software Setup

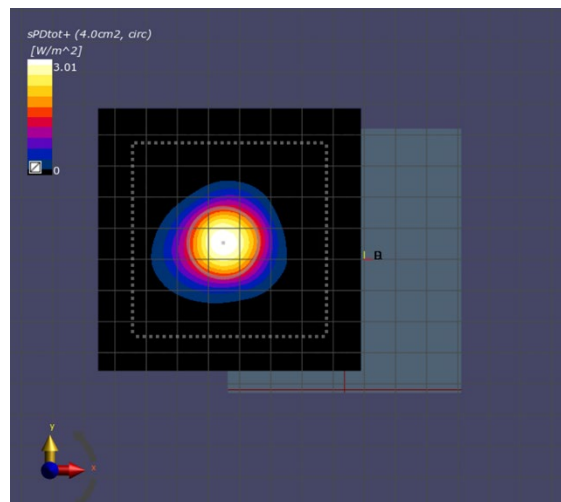
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100x100
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Avg. Area [cm <sup>2</sup> ]	4.00
pS <sub>tot</sub> avg [W/m <sup>2</sup> ]	3.01
pS <sub>n</sub> avg [W/m <sup>2</sup> ]	2.44
E <sub>peak</sub> [V/m]	64.9
Power Drift [dB]	-0.12



# Element

Date: 06/08/2022

Antenna K; Beam 17; V; Low Ch.; CW; Open

## Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMF721U	VDP0653M	Portable Handset

## Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	LEFT	2.00	n261	27550.10

## Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9407, 12/13/2021	DAE4ip SN1639, 01/21/2022

## Software Setup

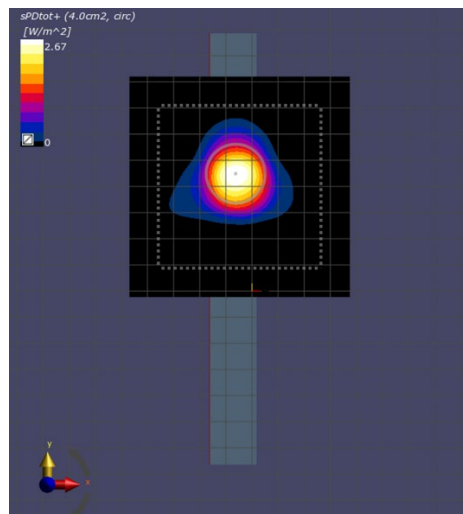
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	80x80
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Avg. Area [cm <sup>2</sup> ]	4.00
pS <sub>tot</sub> avg [W/m <sup>2</sup> ]	2.67
pS <sub>n</sub> avg [W/m <sup>2</sup> ]	2.00
E <sub>peak</sub> [V/m]	68.0
Power Drift [dB]	0..11



# Element

Date: 06/08/2022

Antenna K; Beam 144; H; Low Ch.; CW; Closed

## Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMF721U	VDP0652M	Portable Handset

## Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	LEFT	2.00	n260	37050.00

## Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUMmWV3 - SN9364, 06/21/2021	DAE4ip SN1638, 11/11/2021

## Software Setup

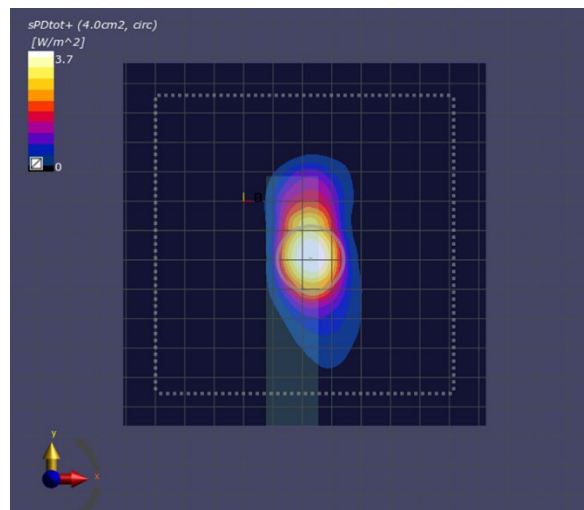
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120x120
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Avg. Area [cm <sup>2</sup> ]	4.00
pS <sub>tot</sub> avg [W/m <sup>2</sup> ]	3.70
pS <sub>n</sub> avg [W/m <sup>2</sup> ]	2.22
E <sub>peak</sub> [V/m]	89.6
Power Drift [dB]	-0.16



# Element

Date: 06/08/2022

Antenna K; Beam 144; H; Low Ch.; CW; Open

## Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMF721U	VDP0653M	Portable Handset

## Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	LEFT	2.00	n260	37050.00

## Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9407, 12/13/2021	DAE4ip SN1639, 01/21/2022

## Software Setup

Software	Software Version
cDASY6 Module mmWave	3.0.0.841

## Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120x120
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0

## Measurement Results

Scan Type	5G Scan
Avg. Area [cm <sup>2</sup> ]	4.00
pS <sub>tot</sub> avg [W/m <sup>2</sup> ]	3.04
pS <sub>n</sub> avg [W/m <sup>2</sup> ]	2.00
E <sub>peak</sub> [V/m]	90.3
Power Drift [dB]	0.03

