

APPENDIX A: POWER DENSITY TEST PLOTS

PCTEST

Date: 10/15/2021

Antenna M; Beam 156; H; High Ch.; CW

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS901U	UI20273M	Portable Handset

Exposure Conditions

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

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 - SN9523, 01/11/2021	DAE4ip SN1639, 11/17/2020

Software Setup

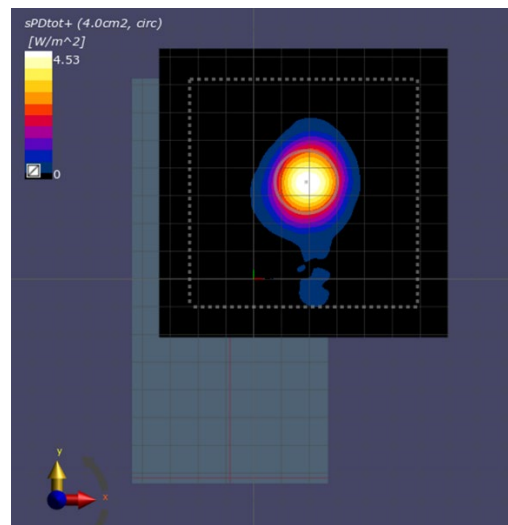
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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 ²]	4.00
pS _{tot} avg [W/m ²]	4.53
pS _n avg [W/m ²]	2.50
E _{peak} [V/m]	70.1
Power Drift [dB]	-0.18



PCTEST

Date: 10/18/2021

Antenna N; Beam 31; V; Low Ch.; CW

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS901U	UI20273M	Portable Handset

Exposure Conditions

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

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 - SN9523, 01/11/2021	DAE4ip SN1639, 11/17/2020

Software Setup

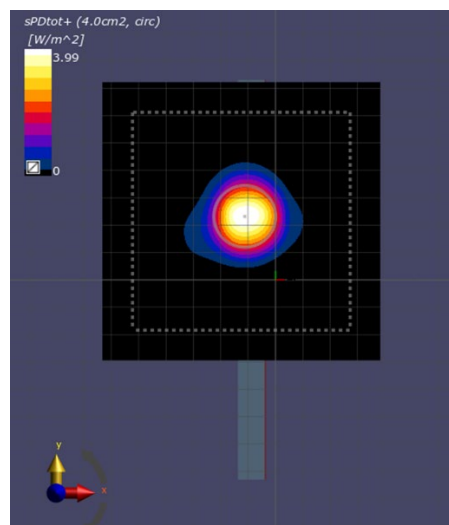
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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 ²]	4.00
pS _{tot} avg [W/m ²]	3.99
pS _n avg [W/m ²]	3.38
E _{peak} [V/m]	67.5
Power Drift [dB]	0.03



PCTEST

Date: 10/07/2021

Antenna M; Beam 162; H; Low Ch.; CW

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS901U	UI20273M	Portable Handset

Exposure Conditions

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

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmWV4 - SN9523, 01/11/2021	DAE4ip SN1639, 11/17/2020

Software Setup

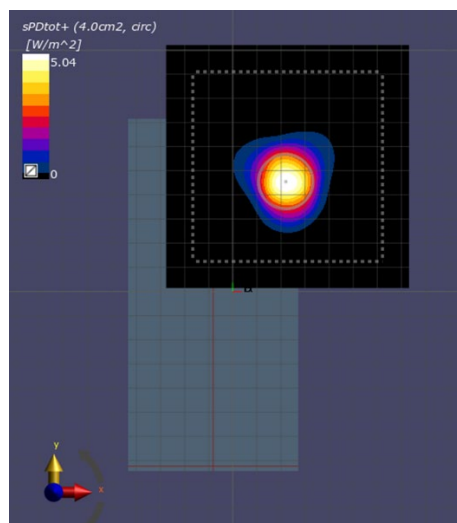
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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 ²]	4.00
pS _{tot} avg [W/m ²]	5.04
pS _n avg [W/m ²]	3.60
E _{peak} [V/m]	78.5
Power Drift [dB]	0.17



PCTEST

Date: 10/07/2021

Antenna N; Beam 160; H; Low Ch.; CW

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS901U	UI20273M	Portable Handset

Exposure Conditions

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

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 - SN9523, 01/11/2021	DAE4ip SN1639, 11/17/2020

Software Setup

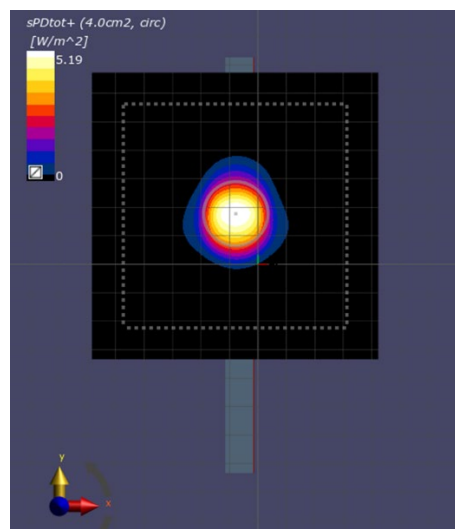
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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 ²]	4.00
pS _{tot} avg [W/m ²]	5.19
pS _n avg [W/m ²]	4.58
E _{peak} [V/m]	93.5
Power Drift [dB]	-0.02



PCTEST

Date: 10/21/2021

Antenna M; Beam 152; H; High Ch.; CW

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS901U	UI20273M	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	BACK	2.00	n260	39949.90

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 - SN9523, 01/11/2021	DAE4ip SN1639, 11/17/2020

Software Setup

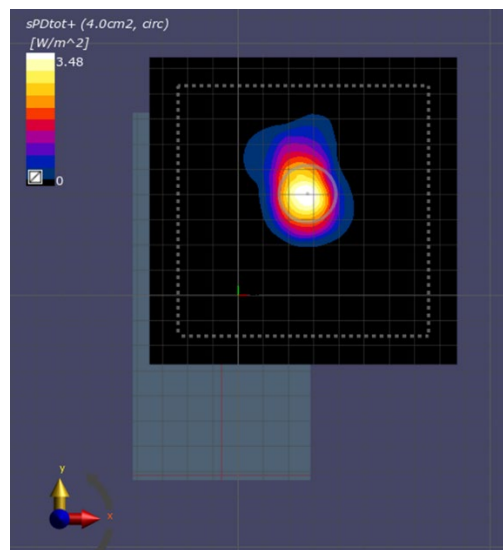
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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 ²]	4.00
pS _{tot} avg [W/m ²]	3.48
pS _n avg [W/m ²]	2.43
E _{peak} [V/m]	81.3
Power Drift [dB]	0.09



PCTEST

Date: 10/21/2021

Antenna N; Beam 40; V; Low Ch.; CW

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS901U	UI20217M	Portable Handset

Exposure Conditions

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

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV4 - SN9541, 05/20/2021	DAE4 SN665, 02/12/2021

Software Setup

Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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 ²]	4.00
pS _{tot} avg [W/m ²]	2.12
pS _n avg [W/m ²]	1.92
E _{peak} [V/m]	59.4
Power Drift [dB]	-0.03

