

APPENDIX A: POWER DENSITY TEST PLOTS

PCTEST

Date: 10/21/2021

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

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS906U	UI20043M	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
EUmmWV3 - SN9389, 11/16/2020	DAE4ip SN1638, 11/17/2020

Software Setup

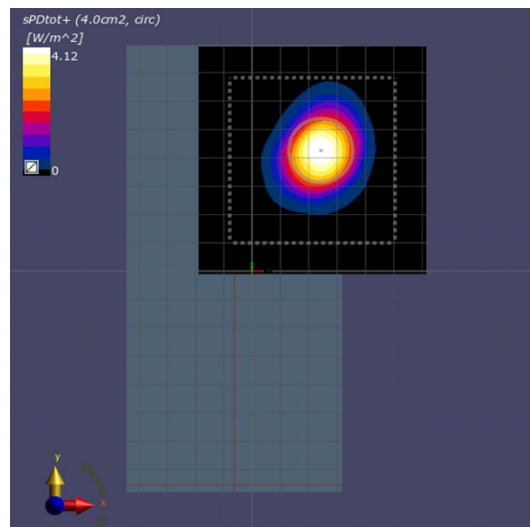
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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 ²]	4.00
pS _{tot} avg [W/m ²]	4.12
pS _n avg [W/m ²]	2.86
E _{peak} [V/m]	67.9
Power Drift [dB]	0.13



PCTEST

Date: 10/25/2021

Antenna N; Beam 30/158; MIMO; Low Ch.; CW

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS906U	UI20043M	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
EUmmWV3 - SN9389, 11/16/2020	DAE4ip SN1638, 11/17/2020

Software Setup

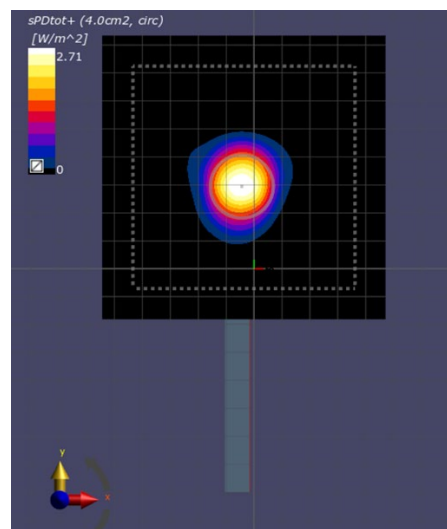
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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]	2.71
pS _n avg [W/m ²]	2.09
E _{peak} [V/m]	58.9
Power Drift [dB]	-0.01



PCTEST

Date: 10/07/2021

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

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS906U	UI20043M	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	BACK	2.00	n261	27925.00

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9389, 11/16/2020	DAE4ip SN1638, 11/17/2020

Software Setup

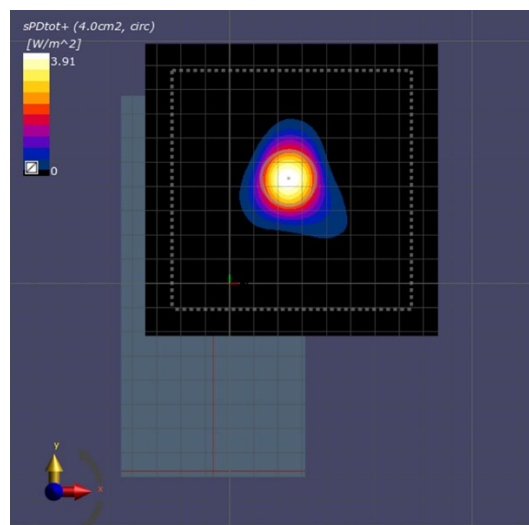
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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]	3.91
pS _n avg [W/m ²]	2.48
E _{peak} [V/m]	67.7
Power Drift [dB]	-0.2



PCTEST

Date: 10/25/2021

Antenna N; Beam 167; H; High Ch.; CW

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS906U	UI20043M	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	RIGHT	2.00	n261	28300.00

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9389, 11/16/2020	DAE4ip SN1638, 11/17/2020

Software Setup

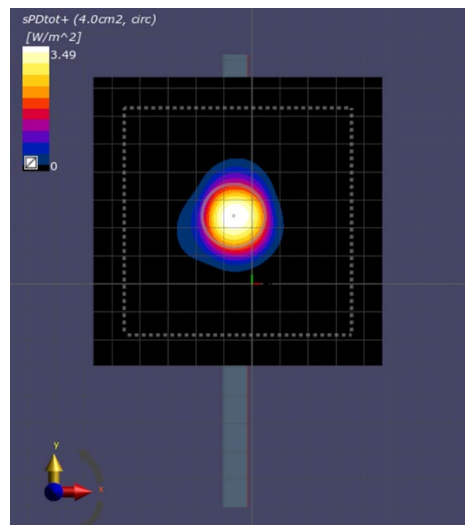
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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]	3.49
pS _n avg [W/m ²]	3.12
E _{peak} [V/m]	73.2
Power Drift [dB]	0.04



PCTEST

Date: 10/19/2021

Antenna M; Beam 25; V; High Ch.; CW

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS906U	UI20043M	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
EUmmWV3 - SN9389, 11/16/2020	DAE4ip SN1638, 11/17/2020

Software Setup

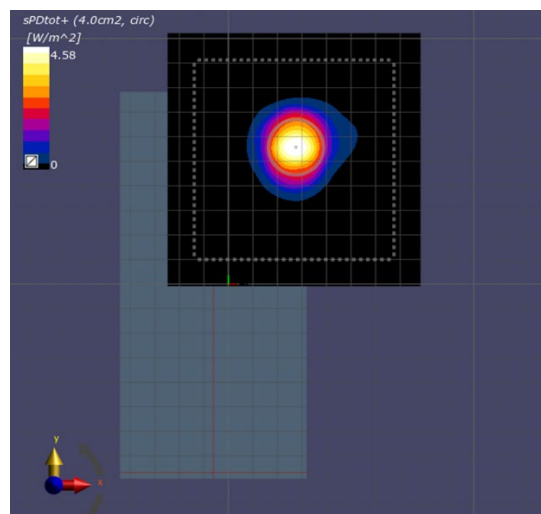
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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]	4.58
pS _n avg [W/m ²]	4.03
E _{peak} [V/m]	74.0
Power Drift [dB]	0.17



PCTEST

Date: 10/25/2021

Antenna N; Beam 167; H; Mid Ch.; CW

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS906U	UI20043M	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	RIGHT	2.00	n260	38500.00

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9389, 11/16/2020	DAE4ip SN1638, 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]	2.14
pS _n avg [W/m ²]	1.84
E _{peak} [V/m]	49.4
Power Drift [dB]	-0.01

