

APPENDIX A: POWER DENSITY TEST PLOTS

PCTEST

Date: 07/14/2021

Module 0 Beam 148; H; Mid Ch.; CW; Closed

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K1995	0F0007K211900A	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	BACK	2.00	n261	27925.0

Hardware Setup

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

Software Setup

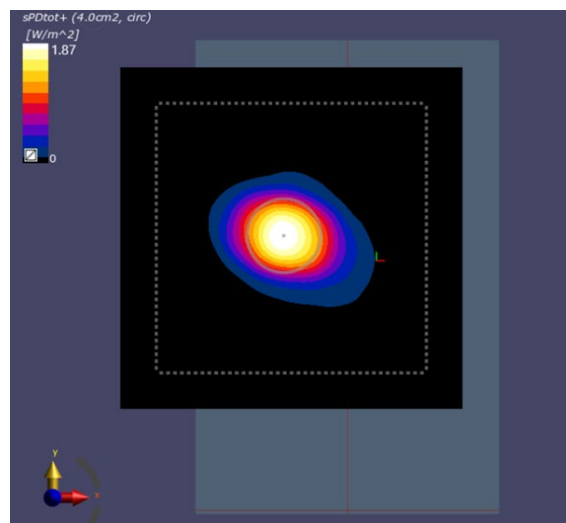
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	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]	1.87
pS _n avg [W/m ²]	1.68
E _{peak} [V/m]	65.9
Power Drift [dB]	0.00



PCTEST

Date: 08/09/2021

Module 1 Beam 24/152; MIMO; Low Ch.; CW; Closed

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K1995	0F0007K211900A	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	2.00	n261	27550.1

Hardware Setup

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

Software Setup

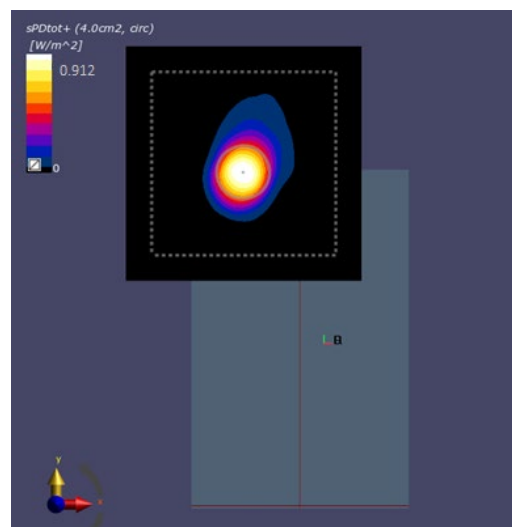
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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]	0.912
pS _n avg [W/m ²]	0.697
E _{peak} [V/m]	45.5
Power Drift [dB]	-0.04



PCTEST

Date: 07/21/2021

Module 0 Beam 28/156; MIMO; Low Ch.; CW; Flat

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K1995	0F00090211900A	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	BACK	2.00	n261	27550.1

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUMmWV3 - SN9389, 11/16/2020	DAE4ip SN1638, 11/17/2020

Software Setup

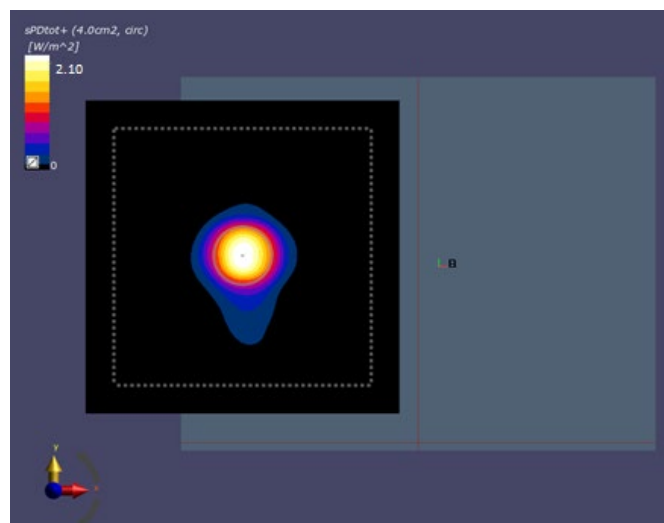
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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]	2.10
pS _n avg [W/m ²]	1.77
E _{peak} [V/m]	71.4
Power Drift [dB]	-0.06



PCTEST

Date: 07/21/2021

Module 1 Beam 24; V; Mid Ch.; CW; Flat

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K1995	0F00090211900A	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	2.00	n261	27925.0

Hardware Setup

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

Software Setup

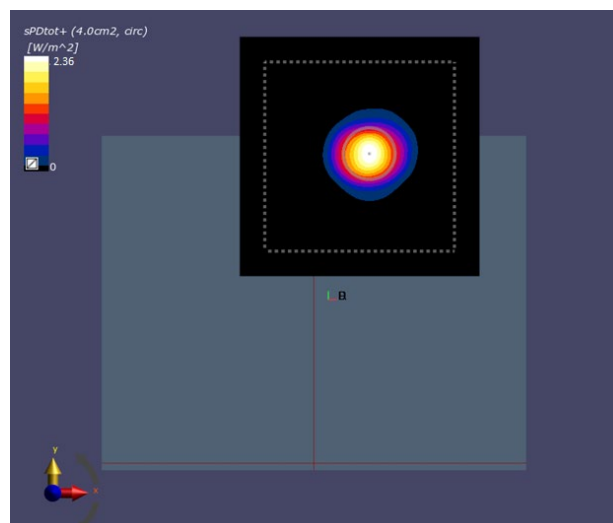
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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]	2.36
pS _n avg [W/m ²]	2.09
E _{peak} [V/m]	78.9
Power Drift [dB]	0.04



PCTEST

Date: 07/23/2021

Module 0 Beam 19; V; Mid Ch.; CW; Flip

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K1995	0F00090211900A	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	2.00	n261	27925.0

Hardware Setup

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

Software Setup

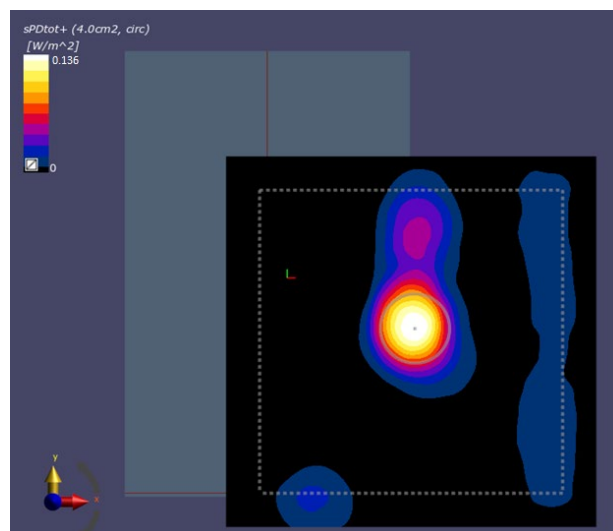
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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]	0.136
pS _n avg [W/m ²]	0.095
E _{peak} [V/m]	20.7
Power Drift [dB]	0.04



PCTEST

Date: 07/26/2021

Module 1 Beam 24; V; Low Ch.; CW; Flip

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K1995	0F0007K211900A	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	2.00	n261	27550.1

Hardware Setup

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

Software Setup

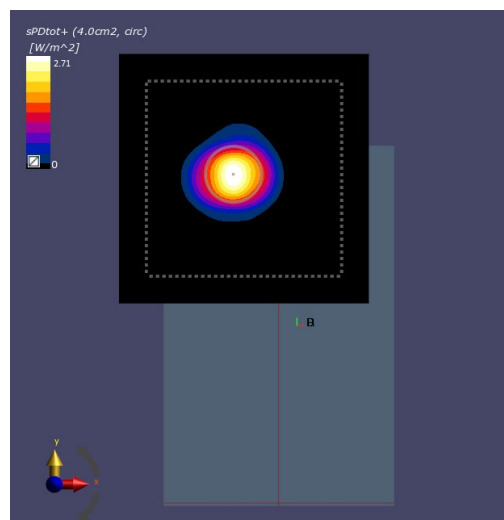
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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]	2.71
pS _n avg [W/m ²]	2.43
E _{peak} [V/m]	76.8
Power Drift [dB]	-0.19



PCTEST

Date: 07/16/2021

Module 0 Beam 161; H; Mid Ch.; CW; Closed

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K1995	0F0007K211900A	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	BACK	2.00	n260	38500.0

Hardware Setup

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

Software Setup

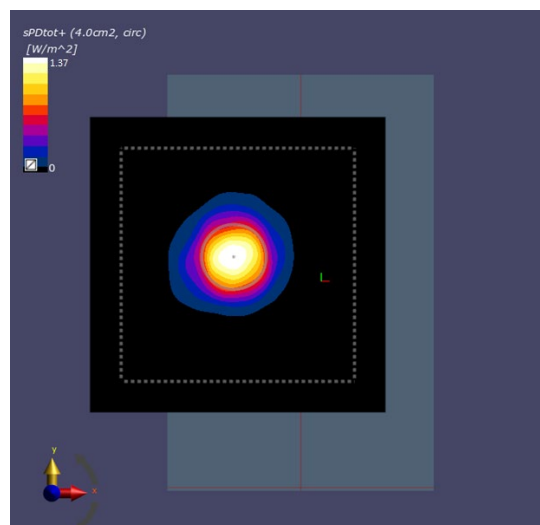
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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]	1.37
pS _n avg [W/m ²]	1.19
E _{peak} [V/m]	66.2
Power Drift [dB]	-0.03



PCTEST

Date: 08/11/2021

Module 1 Beam 155; H; High Ch.; CW; Closed

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K1995	0F0007K211900A	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	TOP	2.00	n260	39949.9

Hardware Setup

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

Software Setup

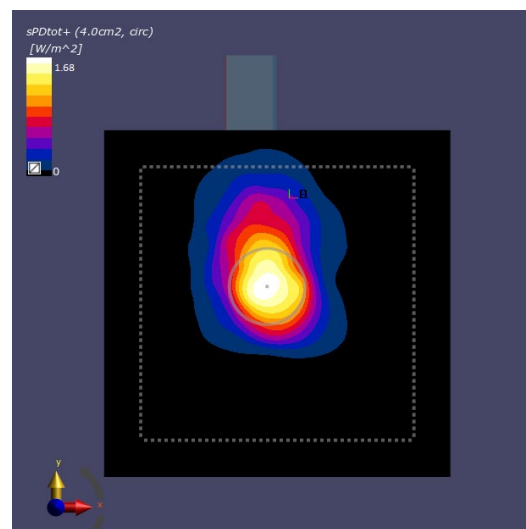
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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]	1.68
pS _n avg [W/m ²]	1.36
E _{peak} [V/m]	67.0
Power Drift [dB]	-0.11



PCTEST

Date: 07/12/2021

Module 0 Beam 161; H; Mid Ch.; CW; Flat

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K1995	0F00090211900A	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	BACK	2.00	n260	38500.0

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUMmWV3 - SN9389, 11/16/2020	DAE4ip SN1638, 11/17/2020

Software Setup

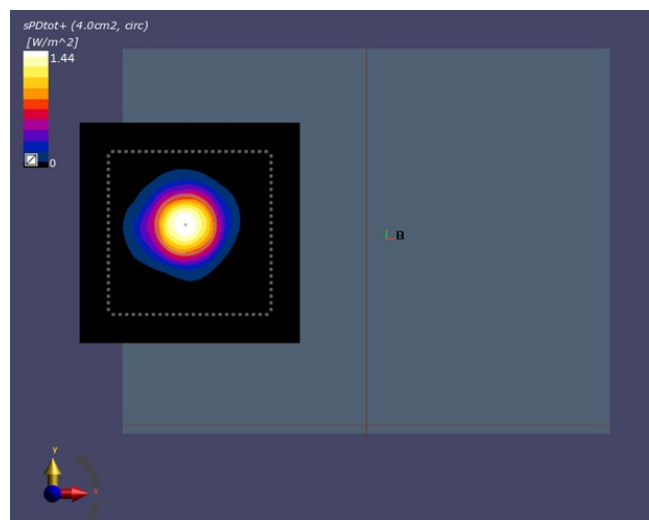
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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]	1.44
pS _n avg [W/m ²]	1.28
E _{peak} [V/m]	68.3
Power Drift [dB]	-0.10



PCTEST

Date: 07/14/2021

Module 1 Beam 147; H; Mid Ch.; CW; Flat

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K1995	0F0007K211900A	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	2.00	n260	38500.0

Hardware Setup

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

Software Setup

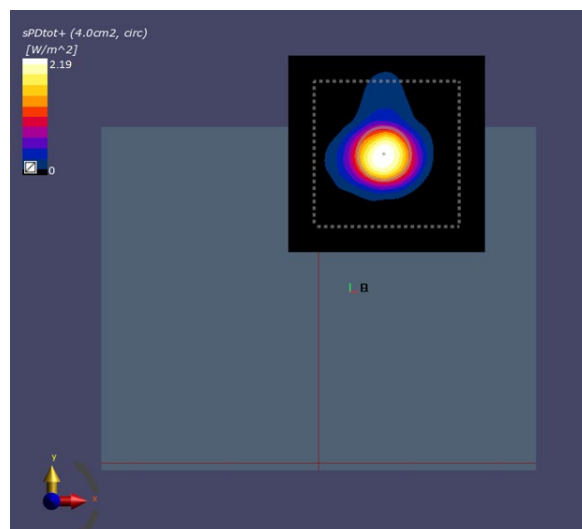
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	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]	2.19
pS _n avg [W/m ²]	1.80
E _{peak} [V/m]	79.4
Power Drift [dB]	-0.08



PCTEST

Date: 07/14/2021

Module 0 Beam 150; H; High Ch.; CW; Flip

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K1995	0F00090211900A	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	RIGHT	2.00	n260	39949.9

Hardware Setup

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

Software Setup

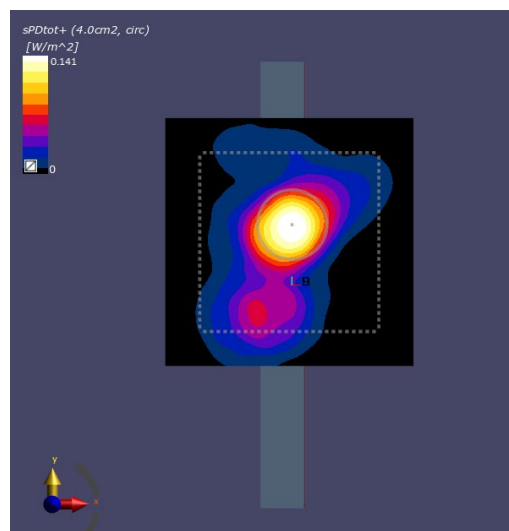
Software	Software Version
cDASY6 Module mmWave	2.4.2.62

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]	0.141
pS _n avg [W/m ²]	0.113
E _{peak} [V/m]	20.2
Power Drift [dB]	0.02



PCTEST

Date: 07/14/2021

Module 1 Beam 147; H; Mid Ch.; CW; Flip

Device Under Test Properties

DUT	Serial Number	DUT Type
C3K1995	0F0007K211900A	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	2.00	n260	38500.0

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]	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]	2.08
pS _n avg [W/m ²]	1.77
E _{peak} [V/m]	78.0
Power Drift [dB]	-0.08

