

APPENDIX B: POWER DENSITY SYSTEM VERIFICATION PLOTS

ELEMENT

Date: 06/24/2022

30 GHz System Verification

Device Under Test Properties

DUT	Serial Number
30 GHz Verification Source	1015

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	5.55	Validation band	30000.00

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9416, 12/13/2021	DAE4 SN1644, 12/13/2021

Software Setup

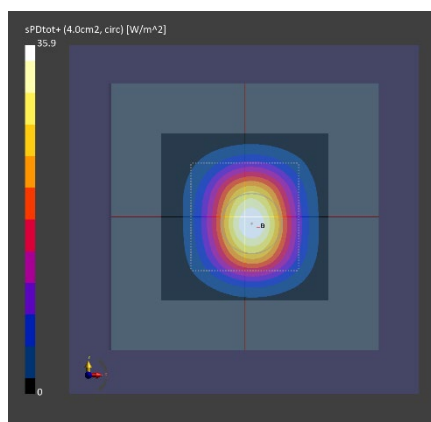
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

Scans Setup

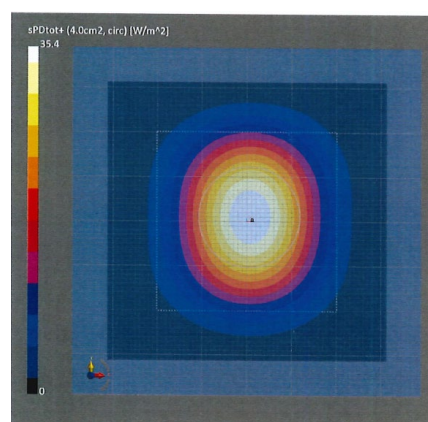
Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.55

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	35.9
pS _n avg [W/m ²]	35.5
E _{peak} [V/m]	139.0
Deviation (dB)	0.07



30 GHz System Verification



Calibration Certificate

ELEMENT

Date: 06/25/2022

30 GHz System Verification

Device Under Test Properties

DUT	Serial Number
30 GHz Verification Source	1015

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	5.55	Validation band	30000.00

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9416, 12/13/2021	DAE4 SN1644, 12/13/2021

Software Setup

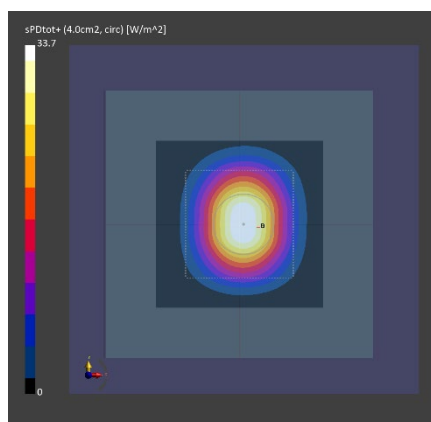
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

Scans Setup

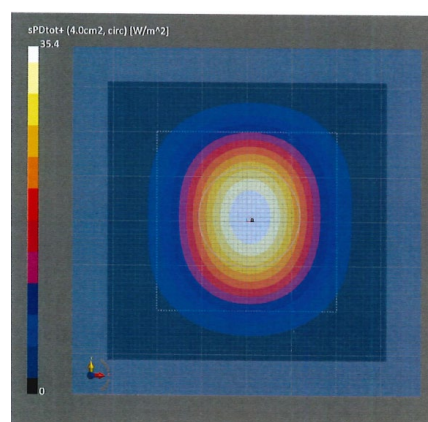
Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.55

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	33.7
pS _n avg [W/m ²]	33.6
E _{peak} [V/m]	138.0
Deviation (dB)	-0.20



30 GHz System Verification



Calibration Certificate

ELEMENT

Date: 06/27/2022

30 GHz System Verification

Device Under Test Properties

DUT	Serial Number
30 GHz Verification Source	1015

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	5.55	Validation band	30000.00

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9416, 12/13/2021	DAE4 SN1644, 12/13/2021

Software Setup

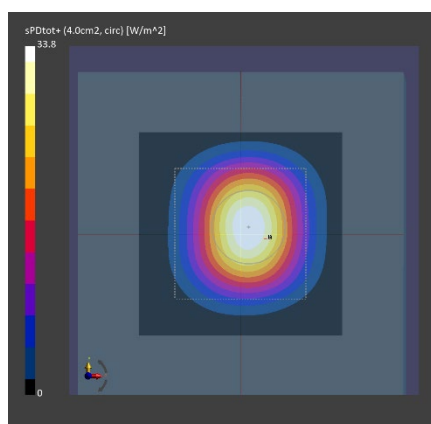
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

Scans Setup

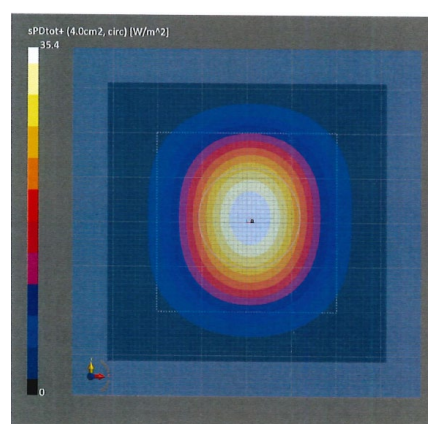
Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.55

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	33.8
pS _n avg [W/m ²]	33.5
E _{peak} [V/m]	130.0
Deviation (dB)	-0.19



30 GHz System Verification



Calibration Certificate

ELEMENT

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30 GHz System Verification

Device Under Test Properties

DUT	Serial Number
30 GHz Verification Source	1015

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Band	Frequency [MHz]
5G	FRONT	5.55	Validation band	30000.00

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 - SN9523, 01/31/2022	DAE4 SN1403, 02/22/2022

Software Setup

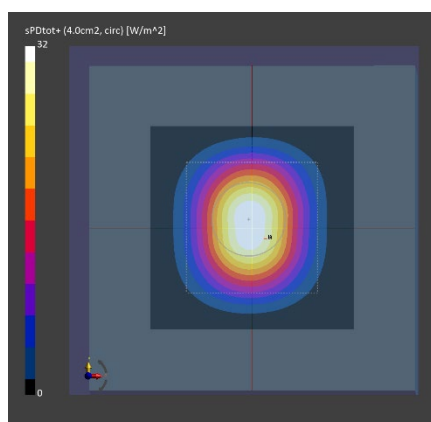
Software	Software Version
cDASY6 Module mmWave	3.0.0.841

Scans Setup

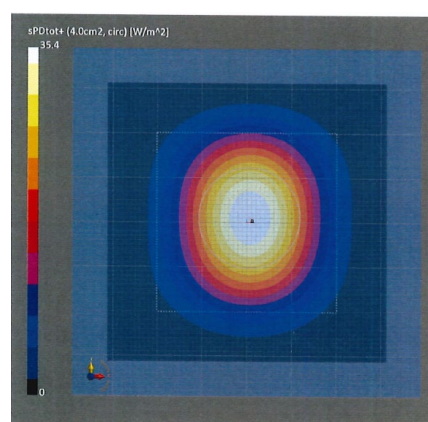
Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.55

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	32.0
pS _n avg [W/m ²]	31.8
E _{peak} [V/m]	127.0
Deviation (dB)	-0.43



30 GHz System Verification



Calibration Certificate