

Part1_PD_Appendix A

Detailed System Check Results

1. System Performance Check
System Performance Check 30 GHz Source

System Performance Check 30GHz Power Density

Device Under Test Properties

Model	Dimensions [mm]	SN	DUT Type
30G Source,	100.0 x 100.0 x 100.0	1078	Source

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 5.55	Validation band	CW, 0--	30000.0, 30000	1.0

Hardware Setup

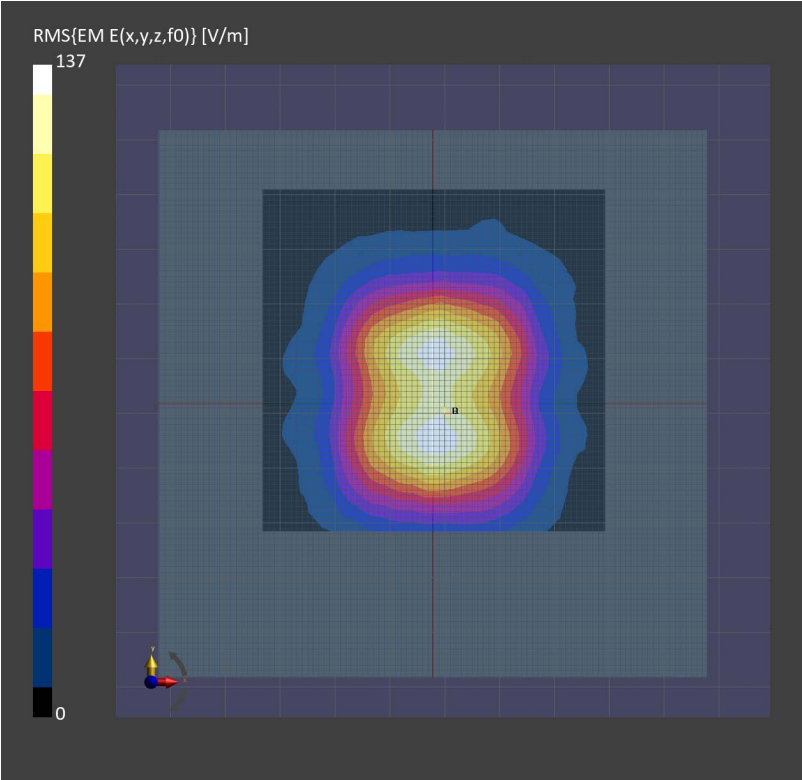
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave-1777	Air -	EUmmWV4 - SN9533_F1-55GHz, 2023-08-18	DAE4 Sn896, 2024-03-18

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
MAIA	N/A

Measurement Results

Scan Type	5G Scan
Date	2024-07-22
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	33.6
psPDtot+ [W/m2]	34.1
psPDmod+ [W/m2]	34.2
E _{max} [V/m]	134
Power Drift [dB]	-0.12



System Performance Check 30GHz Power Density

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30G Source,	100.0 × 100.0 × 100.0	1078	Source

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 5.55	Validation band	CW, 0--	30000.0, 30000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave-1777	Air –	EUmmWV4 – SN9533_F1–55GHz, 2023–08–18	DAE4 Sn896, 2024–03–18

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Scan Type	5G Scan
Grid Extents [mm]	60.0 × 60.0
Grid Steps [lambda]	0.25 × 0.25
Sensor Surface [mm]	5.55
MAIA	N/A

Measurement Results

Scan Type	5G Scan
Date	2024–07–23
Avg. Area [cm2]	4.00
psPDn+ [W/m2]	33.0
psPDtot+ [W/m2]	33.5
psPDmod+ [W/m2]	33.6
E _{max} [V/m]	133
Power Drift [dB]	–0.02

