

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY8 Module mmWave	V3.2
Phantom	5G Phantom	
Distance Horn Aperture - plane	10 mm	
Number of measured planes	2 (10mm, 10mm + $\lambda/4$)	
Frequency	10 GHz $\pm$ 10 MHz	

Calibration Parameters, 10 GHz

Circular Averaging

Distance Horn Aperture to Measured Plane	$Prad^I$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m ²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	93.3	152	1.27 dB	60.3	56.2	1.28 dB

Distance Horn Aperture to Measured Plane	$Prad^I$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Power Density psPDn+, psPDtot+, psPDmod+ (W/m ²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	93.3	152	1.27 dB	60.1, 60.3, 60.5	55.9, 56.2, 56.4	1.28 dB

Square Averaging

Distance Horn Aperture to Measured Plane	$Prad^I$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m ²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	93.3	152	1.27 dB	60.3	56.1	1.28 dB

Distance Horn Aperture to Measured Plane	$Prad^I$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Power Density psPDn+, psPDtot+, psPDmod+ (W/m ²)		Uncertainty (k = 2)
				1 cm ²	4 cm ²	
10 mm	93.3	152	1.27 dB	60.1, 60.3, 60.4	55.8, 56.1, 56.3	1.28 dB

Max Power Density

Distance Horn Aperture to Measured Plane	$Prad^I$ (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Max Power Density Sn, Stot, Stot (W/m ²)	Uncertainty (k = 2)
10 mm	93.3	152	1.27 dB	61.8, 61.8, 62.0	1.28 dB

^I Assessed ohmic and mismatch loss plus numerical offset: 0.30 dB

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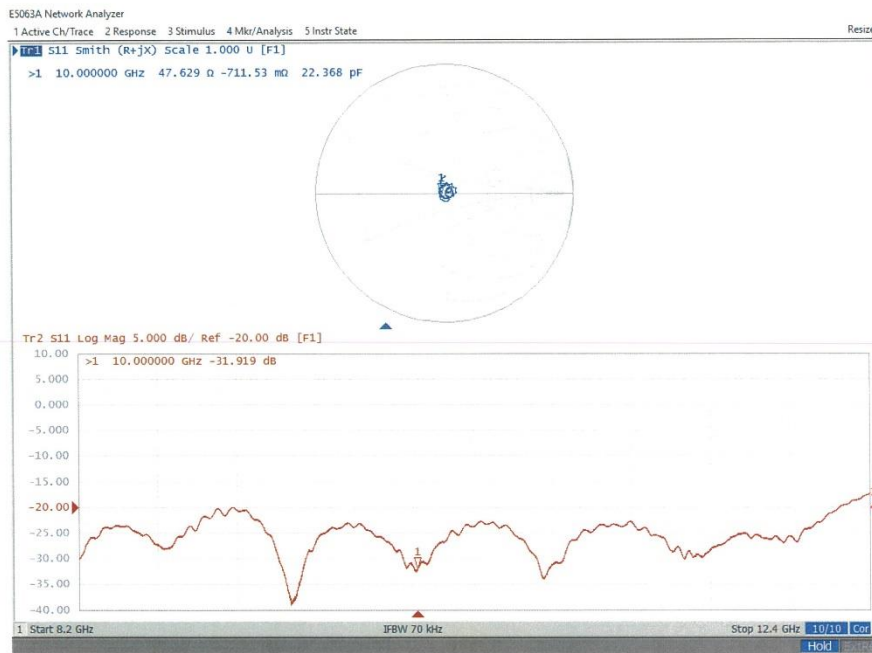
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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters

Impedance, transformed to feed point	47.6 Ω - 0.7 j Ω
Return Loss	- 31.9 dB

Impedance Measurement Plot



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DASY Report

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1070	-

Exposure Conditions

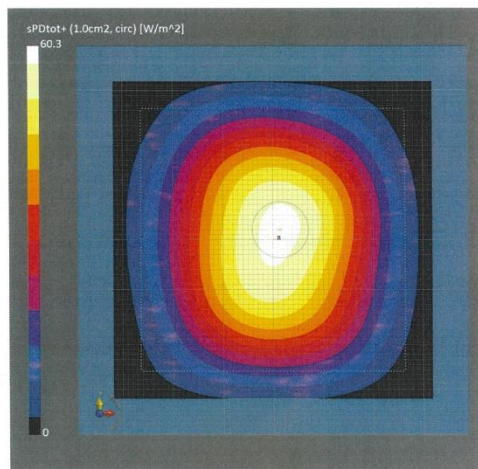
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2023-12-04	DAE4ip Sn1602, 2023-11-08

Scan Setup

Sensor Surface [mm]	5G Scan	Measurement Results	5G Scan
MAIA	10.0	Date	2024-08-16, 09:41
	MAIA not used	Avg. Area [cm ²]	1.00
		Avg. Type	Circular Averaging
		psPDn+ [W/m ²]	60.1
		psPDtot+ [W/m ²]	60.3
		psPDmod+ [W/m ²]	60.5
		Max(Sn) [W/m ²]	61.8
		Max(Stot) [W/m ²]	61.8
		Max(Stot) [W/m ²]	62.0
		E _{max} [V/m]	152
		Power Drift [dB]	-0.02



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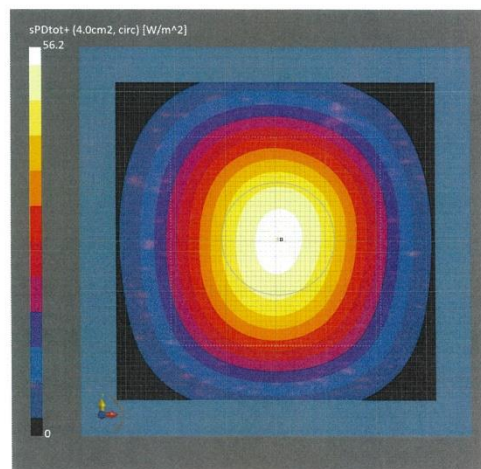
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5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0

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Scan Setup

Sensor Surface [mm]	5G Scan	Measurement Results	5G Scan
MAIA	10.0	Date	2024-08-16, 09:41
	MAIA not used	Avg. Area [cm ²]	4.00
		Avg. Type	Circular Averaging
		psPDn+ [W/m ²]	55.9
		psPDtot+ [W/m ²]	56.2
		psPDmod+ [W/m ²]	56.4
		Max(Sn) [W/m ²]	61.8
		Max(Stot) [W/m ²]	61.8
		Max(Stot) [W/m ²]	62.0
		E _{max} [V/m]	152
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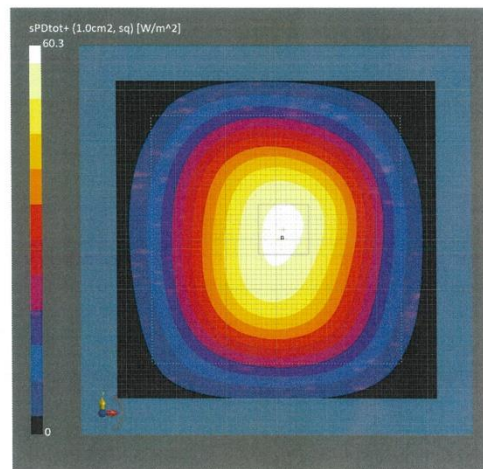
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		Avg. Type	Square Averaging
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		Max(Sn) [W/m ²]	61.8
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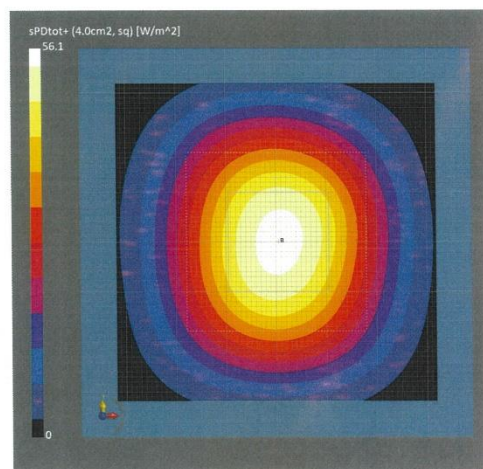
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**- End of report -**

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