

**Measurement Conditions**

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

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

**Calibration Parameters, 10 GHz**
**Circular Averaging**

Distance Horn Aperture to Measured Plane	<i>Prad'</i> (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m <sup>2</sup> )		Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>	
10 mm	89.1	148	1.27 dB	56.5	53.1	1.28 dB

Distance Horn Aperture to Measured Plane	<i>Prad'</i> (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Power Density psPDn+, psPDtot+, psPDmod+ (W/m <sup>2</sup> )		Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>	
10 mm	89.1	148	1.27 dB	56.2, 56.6, 56.7	52.8, 53.1, 53.3	1.28 dB

**Square Averaging**

Distance Horn Aperture to Measured Plane	<i>Prad'</i> (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m <sup>2</sup> )		Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>	
10 mm	89.1	148	1.27 dB	56.5	53.0	1.28 dB

Distance Horn Aperture to Measured Plane	<i>Prad'</i> (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Power Density psPDn+, psPDtot+, psPDmod+ (W/m <sup>2</sup> )		Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>	
10 mm	89.1	148	1.27 dB	56.2, 56.6, 56.7	52.7, 53.0, 53.2	1.28 dB

**Max Power Density**

Distance Horn Aperture to Measured Plane	<i>Prad'</i> (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Max Power Density Sn, Stot,  Stot  (W/m <sup>2</sup> )	Uncertainty (k = 2)
				10 mm	

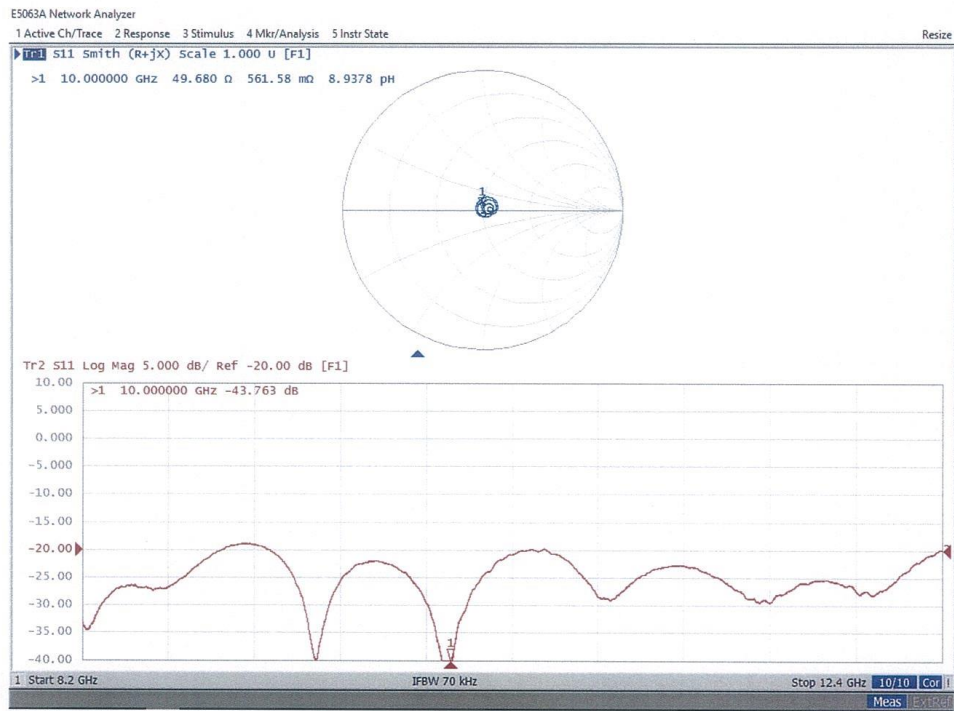
<sup>1</sup> Assessed ohmic and mismatch loss plus numerical offset: 0.40 dB

**Appendix (Additional assessments outside the scope of SCS 0108)**

**Antenna Parameters**

Impedance, transformed to feed point	49.7 $\Omega$ - 0.6 j $\Omega$
Return Loss	- 43.8 dB

**Impedance Measurement Plot**



## 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: 1018	-

#### 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

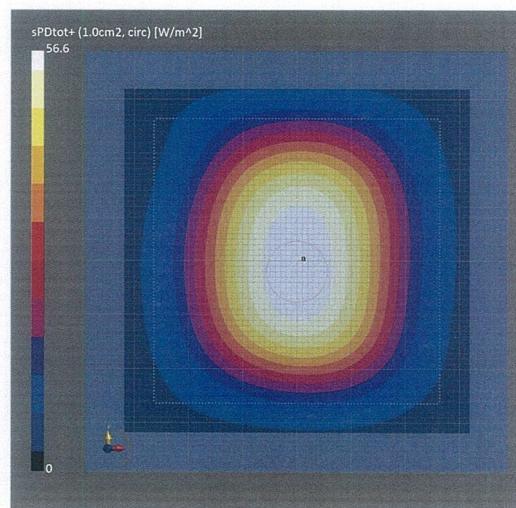
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2023-01-03	DAE4ip Sn1602, 2022-06-27

#### Scan Setup

Sensor Surface [mm]	5G Scan
MAIA	10.0 MAIA not used

#### Measurement Results

	5G Scan
Date	2023-04-25, 12:50
Avg. Area [cm <sup>2</sup> ]	1.00
Avg. Type	Circular Averaging
psPDn+ [W/m <sup>2</sup> ]	56.2
psPDtot+ [W/m <sup>2</sup> ]	56.6
psPDmod+ [W/m <sup>2</sup> ]	56.7
Max(Sn) [W/m <sup>2</sup> ]	57.3
Max(Stot) [W/m <sup>2</sup> ]	57.8
Max( Stot ) [W/m <sup>2</sup> ]	57.9
E <sub>max</sub> [V/m]	148
Power Drift [dB]	0.07



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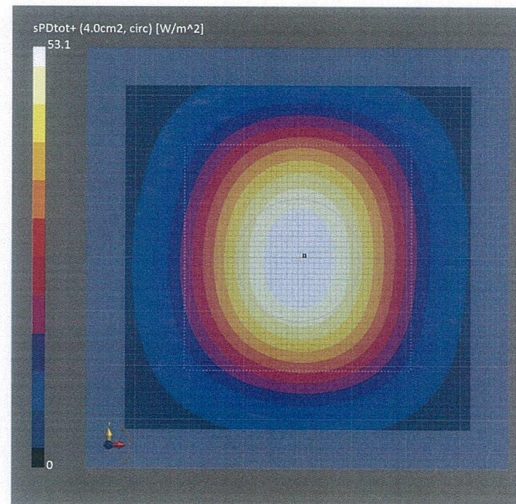
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mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2023-01-03	DAE4ip Sn1602, 2022-06-27

#### Scan Setup

Sensor Surface [mm]	5G Scan
MAIA	10.0 MAIA not used

#### Measurement Results

	5G Scan
Date	2023-04-25, 12:50
Avg. Area [cm <sup>2</sup> ]	4.00
Avg. Type	Circular Averaging
psPDn+ [W/m <sup>2</sup> ]	52.8
psPDtot+ [W/m <sup>2</sup> ]	53.1
psPDmod+ [W/m <sup>2</sup> ]	53.3
Max(Sn) [W/m <sup>2</sup> ]	57.3
Max(Stot) [W/m <sup>2</sup> ]	57.8
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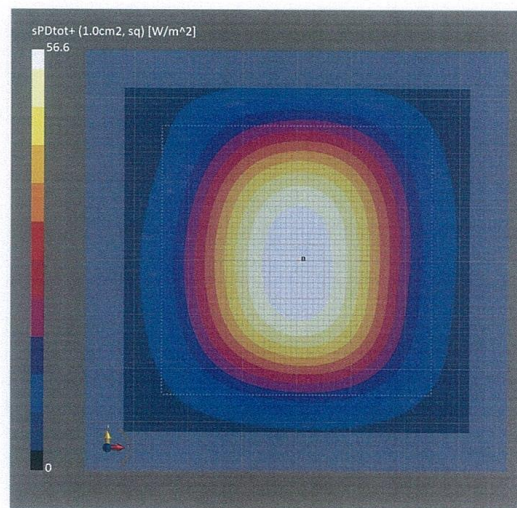
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#### Scan Setup

Sensor Surface [mm]	5G Scan
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#### Measurement Results

	5G Scan
Date	2023-04-25, 12:50
Avg. Area [cm <sup>2</sup> ]	1.00
Avg. Type	Square Averaging
psPDn+ [W/m <sup>2</sup> ]	56.2
psPDtot+ [W/m <sup>2</sup> ]	56.6
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##### Measurement Results

	5G Scan
Date	2023-04-25, 12:50
Avg. Area [cm <sup>2</sup> ]	4.00
Avg. Type	Square Averaging
psPDn+ [W/m <sup>2</sup> ]	52.7
psPDtot+ [W/m <sup>2</sup> ]	53.0
psPDmod+ [W/m <sup>2</sup> ]	53.2
Max(Sn) [W/m <sup>2</sup> ]	57.3
Max(Stot) [W/m <sup>2</sup> ]	57.8
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