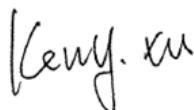


Power Density Measurement Report

Application No.:	SZCR2503000881WM
Applicant:	NOTHING TECHNOLOGY LIMITED
Address of Applicant:	Bedford House, 21A John Street, London, United Kingdom WC1N 2BF
Manufacturer:	NOTHING TECHNOLOGY LIMITED
Address of Manufacturer:	Bedford House, 21A John Street, London, United Kingdom WC1N 2BF
Product Name:	Smart Phone
Model No.:	A024
FCC ID:	2AZEQ-A024
Standards:	FCC 47CFR §2.1093 IEC/IEEE 63195-1:2022 IEC/IEEE 62209-1528:2020
Date of Receipt:	2025/03/25
Date of Test:	2025/04/21
Date of Issue:	2025/04/28
Test conclusion:	PASS *

*In the configuration tested, the EUT detailed in this report complied with the standards specified above.



Keny Xu

EMC Laboratory Manager



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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR250300088115

Page: 2 of 32

Revision History

Report Number	Revision	Description	Issue Date
SZCR250300088115	01	Original	2025/04/28

Authorized for issue by:				
		Calvin Weng / Project Engineer		
		Eric Fu / Reviewer		



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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR250300088115

Page: 3 of 32

TEST SUMMARY

Frequency Band	Reported PD (W/m ²)
WIFI 6E	9.03
PD Limit	10



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1 General Information

1.1 Test Location

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Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test Engineer:	Bert Xu

1.2 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	Smart Phone		
Model No.(EUT):	A024		
FCC ID:	2AZEQ-A024		
Product Phase:	production unit		
Hardware Version:	23112		
Software Version:	NOTHING OS3.3		
Modulation Mode:	OFDMA		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	UNII-5	5925-6425	5925-6425

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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1.3 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
IEC/IEEE 63195-1:2022	Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz) – Part 1: Measurement procedure
KDB 447498 D04	Interim General RF Exposure Guidance v01
KDB 248227 D01	SAR Guidance for IEEE 802.11 Wi-Fi SAR v02r02



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1.4 RF exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

Note: 1.0 mW/cm² is equal to 10 W/m²



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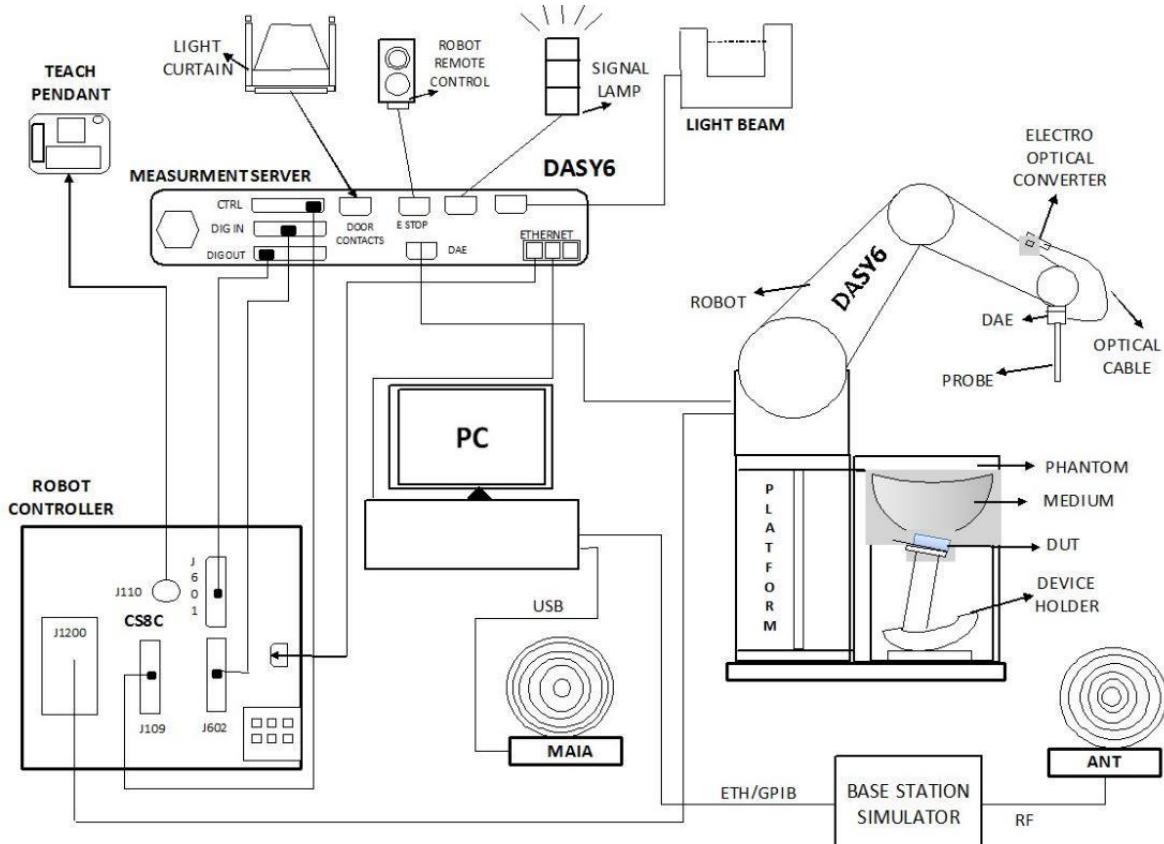
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2 System Description and Setup

2.1 Power density measurement system

Power density measurements for mmWave frequencies were performed using SPEAG DASY6 with cDASY6 5G module. The DASY6 included a high precision robotics system (Staubli), robot controller, desktop computer, near-field probe, probe alignment sensor, and the 5G phantom cover.



Measurement System Configuration



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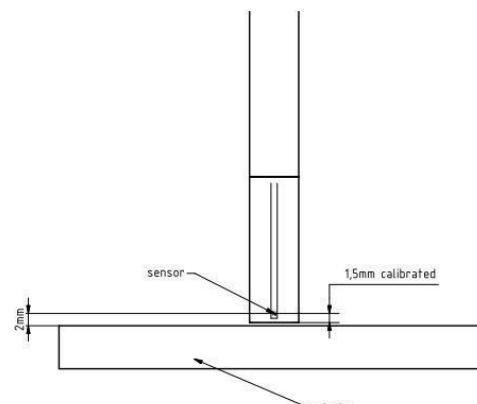
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Shenzhen Branch, Shenzhen Wireless Laboratory

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2.2 EUmmWaVe probe

Frequency	750 MHz – 110 GHz
Probe Overall Length	320 mm
Probe Body Diameter	8.0 mm
Tip Length	23.0 mm
Tip Diameter	8.0 mm
Probe's two dipoles length	0.9 mm – Diode loaded
Dynamic Range	< 20 V/m - 10000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)
Position Precision	< 0.2 mm
Distance between diode sensors and probe's tip	1.5 mm
Minimum Mechanical separation between probe tip and a Surface	0.5 mm
Applications	E-field measurements of 5G devices and other mm-wave transmitters operating above 10GHz in < 2 mm distance from device (free-space) Power density, H-field and far-field analysis using total field reconstruction.
Compatibility	cDASY6 + 5G-Module SW1.0 and higher





The EUmmWaVe probe is based on the pseudo-vector probe design, which not only measures the field magnitude but also derives its polarization ellipse. The design entails two small 0.8mm dipole sensors mechanically protected by high-density foam, printed on both sides of a 0.9mm wide and 0.12mm thick glass substrate. The body of the probe is specifically constructed to minimize distortion by the scattered fields. The probe consists of two sensors with different angles (1 and 2) arranged in the same plane in the probe axis. Three or more measurements of the two sensors are taken for different probe rotational angles to derive the amplitude and polarization information. The probe design allows measurements at distances as small as 2mm from the sensors to the surface of the device under test (DUT). The typical sensor to probe tip distance is 1.5 mm. The exact distance is calibrated.

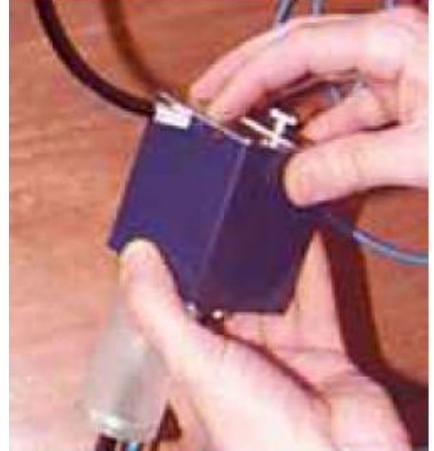


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2.3 Data Acquisition Electronics (DAE)

Model	DAE	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement Range	-100 to +300 mV (16-bit resolution and two range settings: 4mV, 400mV)	
Input Offset Voltage	< 5µV (with auto zero)	
Input Bias Current	< 50 f A	
Dimensions	60 x 60 x 68 mm	

2.4 Scan configuration

Fine-resolution scans on 2 different planes are performed to reconstruct the E- and H-fields as well as the power density; the z-distance between the 2 planes is set to $\lambda/4$. The (x, y) grid step is also set $\lambda/4$, the grid extent is set to sufficiently large to identify the field pattern and the peak.



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3 System Verification Procedure

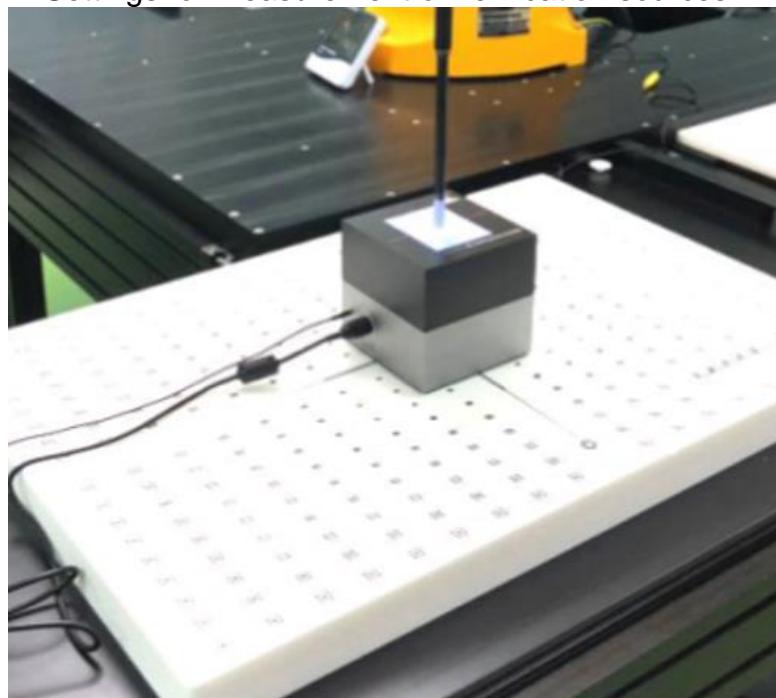
3.1 PD Test System Verification

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

Frequency [GHz]	Grid step	Grid extent X/Y [mm]	Measurement points
10	0.25 ($\frac{\lambda}{4}$)	120/120	16 \times 16
30	0.25 ($\frac{\lambda}{4}$)	60/60	24 \times 24
60	0.25 ($\frac{\lambda}{4}$)	32.5/32.5	26 \times 26
90	0.25 ($\frac{\lambda}{4}$)	30/30	36 \times 36

Settings for measurement of verification sources



System Verification Setup Photo



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3.2 PD System Verification Results

Frequent	Measured PD W/m ²	Target PD W/m ²	Circular Deviation (Within ±0.66dB)	Test Date
	4cm ²	4cm ²	4cm ²	
10G HZ Source	182.00	183	-0.02	2025/04/21

3.3 Detailed System Check Results

Please see the Appendix A



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4 Measurement Data

1. The PD test was performed of a 2mm separation between sensor and EUT surface (the probe tip is 0.5mm to the EUT surface), 2 mm separation distance PD testing is for hotspot and body worn exposure conditions.
2. According to TCBC Workshop in October 2018, 4 cm² averaging area are used.

4.1 Measurement of RF Conducted Power

Ant6:

WIFI 6E Ant6						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Average Power (dBm)	Tune up
U - NII - 5 6.2GHz	802.11a	1	5955	6Mbps	6.69	8.50
		21	6055		6.89	8.50
		45	6175		7.58	8.50
		69	6295		7.94	8.50
		93	6415		7.98	8.50
	802.11n HT20	1	5955	MCS0	6.68	8.50
		21	6055		6.94	8.50
		45	6175		7.66	8.50
		69	6295		7.98	8.50
		93	6415		8.01	8.50
	802.11n HT40	3	5965	MCS0	9.92	11.50
		19	6045		10.03	11.50
		43	6165		10.22	11.50
		67	6285		11.04	11.50
		91	6405		11.10	11.50
	802.11ac VHT20	1	5955	MCS0	6.74	8.50
		21	6055		7.01	8.50
		45	6175		7.60	8.50
		69	6295		8.05	8.50
		93	6415		8.05	8.50
	802.11ac VHT40	3	5965	MCS0	9.84	11.50
		19	6045		10.08	11.50
		43	6165		10.17	11.50
		67	6285		10.99	11.50
		91	6405		11.15	11.50
	802.11ac VHT80	7	5985	MCS0	12.69	14.50
		23	6065		12.97	14.50
		39	6145		13.33	14.50
		71	6305		14.19	14.50



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		87	6385		14.18	14.50
802.11ac VHT160	15	6025	MCS0	14.81	16.50	
	47	6185		14.61	16.50	
	79	6345		15.72	16.50	
	1	5955		6.73	8.50	
802.11ax HEW20	21	6055	MCS0	6.99	8.50	
	45	6175		7.62	8.50	
	69	6295		7.90	8.50	
	93	6415		8.01	8.50	
	3	5965		9.90	11.50	
802.11ax HEW40	19	6045	MCS0	9.96	11.50	
	43	6165		10.25	11.50	
	67	6285		10.99	11.50	
	91	6405		11.07	11.50	
	7	5985	MCS0	12.67	14.50	
802.11ax HEW80	23	6065		13.05	14.50	
	39	6145		13.30	14.50	
	71	6305		14.11	14.50	
	87	6385		14.15	14.50	
	15	6025	MCS0	15.25	16.50	
802.11ax HEW160	47	6185		14.68	16.50	
	79	6345		16.25	16.50	
802.11be EHT20	1	5955	MCS0	6.76	8.50	
	21	6055		7.00	8.50	
	45	6175		7.71	8.50	
	69	6295		7.93	8.50	
	93	6415		7.95	8.50	
802.11be EHT40	3	5965	MCS0	9.84	11.50	
	19	6045		10.01	11.50	
	43	6165		10.14	11.50	
	67	6285		11.07	11.50	
	91	6405		11.15	11.50	
802.11be EHT80	7	5985	MCS0	12.63	14.50	
	23	6065		13.04	14.50	
	39	6145		13.29	14.50	
	71	6305		14.17	14.50	
	87	6385		14.15	14.50	
802.11be EHT160	15	6025	MCS0	15.33	16.50	
	47	6185		14.74	16.50	
	79	6345		15.32	16.50	
802.11be EHT320	31	6105	MCS0	13.26	14.50	
	63	6265		13.87	14.50	

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WIFI 6E Ant6 Head						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Average Power (dBm)	Tune up
U - NII - 5 6.2GHz	802.11a	1	5955	6Mbps	6.69	8.50
		21	6055		6.89	8.50
		45	6175		7.58	8.50
		69	6295		7.94	8.50
		93	6415		7.98	8.50
	802.11n HT20	1	5955	MCS0	6.68	8.50
		21	6055		6.94	8.50
		45	6175		7.66	8.50
		69	6295		7.98	8.50
		93	6415		8.01	8.50
	802.11n HT40	3	5965	MCS0	9.92	11.50
		19	6045		10.03	11.50
		43	6165		10.22	11.50
		67	6285		11.04	11.50
		91	6405		11.10	11.50
	802.11ac VHT20	1	5955	MCS0	6.74	8.50
		21	6055		7.01	8.50
		45	6175		7.60	8.50
		69	6295		8.05	8.50
		93	6415		8.05	8.50
	802.11ac VHT40	3	5965	MCS0	9.84	11.50
		19	6045		10.08	11.50
		43	6165		10.17	11.50
		67	6285		10.99	11.50
		91	6405		11.15	11.50
	802.11ac VHT80	7	5985	MCS0	9.19	11.00
		23	6065		9.47	11.00
		39	6145		9.83	11.00
		71	6305		10.69	11.00
		87	6385		10.68	11.00
	802.11ac VHT160	15	6025	MCS0	11.31	13.00
		47	6185		11.11	13.00
		79	6345		12.22	13.00
	802.11ax HEW20	1	5955	MCS0	6.73	8.50
		21	6055		6.99	8.50
		45	6175		7.62	8.50
		69	6295		7.90	8.50
		93	6415		8.01	8.50
	802.11ax HEW40	3	5965	MCS0	9.90	11.50
		19	6045		9.96	11.50



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802.11ax HEW80	43	6165		10.25	11.50
	67	6285		10.99	11.50
	91	6405		11.07	11.50
	7	5985	MCS0	9.17	11.00
	23	6065		9.55	11.00
	39	6145		9.80	11.00
	71	6305		10.61	11.00
	87	6385		10.65	11.00
	15	6025	MCS0	11.75	13.00
	47	6185		11.18	13.00
	79	6345		12.75	13.00
802.11be EHT20	1	5955	MCS0	6.76	8.50
	21	6055		7.00	8.50
	45	6175		7.71	8.50
	69	6295		7.93	8.50
	93	6415		7.95	8.50
802.11be EHT40	3	5965	MCS0	9.84	11.50
	19	6045		10.01	11.50
	43	6165		10.14	11.50
	67	6285		11.07	11.50
	91	6405		11.15	11.50
802.11be EHT80	7	5985	MCS0	9.13	11.00
	23	6065		9.54	11.00
	39	6145		9.79	11.00
	71	6305		10.67	11.00
	87	6385		10.65	11.00
802.11be EHT160	15	6025	MCS0	11.83	13.00
	47	6185		11.24	13.00
	79	6345		11.82	13.00
802.11be EHT320	31	6105	MCS0	9.76	11.00
	63	6265		10.37	11.00

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WIFI 6E Ant6 Body						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Average Power (dBm)	Tune up
U - NII - 5 6.2GHz	802.11a	1	5955	6Mbps	4.23	6.00
		21	6055		4.37	6.00
		45	6175		5.08	6.00
		69	6295		5.45	6.00
		93	6415		5.51	6.00
	802.11n HT20	1	5955	MCS0	4.23	6.00
		21	6055		4.47	6.00
		45	6175		5.15	6.00
		69	6295		5.51	6.00
		93	6415		5.49	6.00
	802.11n HT40	3	5965	MCS0	7.40	9.00
		19	6045		7.54	9.00
		43	6165		7.77	9.00
		67	6285		8.59	9.00
		91	6405		8.62	9.00
	802.11ac VHT20	1	5955	MCS0	4.20	6.00
		21	6055		4.50	6.00
		45	6175		5.15	6.00
		69	6295		5.58	6.00
		93	6415		5.59	6.00
	802.11ac VHT40	3	5965	MCS0	7.29	9.00
		19	6045		7.61	9.00
		43	6165		7.71	9.00
		67	6285		8.49	9.00
		91	6405		8.64	9.00
	802.11ac VHT80	7	5985	MCS0	5.69	7.50
		23	6065		5.96	7.50
		39	6145		6.36	7.50
		71	6305		7.16	7.50
		87	6385		7.14	7.50
	802.11ac VHT160	15	6025	MCS0	7.85	9.50
		47	6185		7.64	9.50
		79	6345		8.85	9.50
	802.11ax HEW20	1	5955	MCS0	4.28	6.00
		21	6055		4.52	6.00
		45	6175		5.09	6.00
		69	6295		5.42	6.00
		93	6415		5.48	6.00
	802.11ax HEW40	3	5965	MCS0	7.40	9.00
		19	6045		7.44	9.00

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		43	6165		7.70	9.00
		67	6285		8.54	9.00
		91	6405		8.57	9.00
	802.11ax HEW80	7	5985	MCS0	5.65	7.50
		23	6065		6.01	7.50
		39	6145		6.35	7.50
		71	6305		7.16	7.50
		87	6385		7.10	7.50
	802.11ax HEW160	15	6025	MCS0	8.24	9.50
		47	6185		7.63	9.50
		79	6345		9.27	9.50
	802.11be EHT20	1	5955	MCS0	4.31	6.00
		21	6055		4.55	6.00
		45	6175		5.19	6.00
		69	6295		5.41	6.00
		93	6415		5.44	6.00
	802.11be EHT40	3	5965	MCS0	7.38	9.00
		19	6045		7.50	9.00
		43	6165		7.69	9.00
		67	6285		8.52	9.00
		91	6405		8.68	9.00
	802.11be EHT80	7	5985	MCS0	5.66	7.50
		23	6065		6.08	7.50
		39	6145		6.34	7.50
		71	6305		7.20	7.50
		87	6385		7.20	7.50
	802.11be EHT160	15	6025	MCS0	8.34	9.50
		47	6185		7.73	9.50
		79	6345		8.31	9.50
	802.11be EHT320	31	6105	MCS0	6.22	7.50
		63	6265		6.86	7.50

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Ant5:

WIFI 6E Ant5 Head						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Average Power (dBm)	Tune up
U - NII - 5 6.2GHz	802.11a	1	5955	6Mbps	8.05	8.50
		21	6055		7.44	8.50
		45	6175		6.68	8.50
		69	6295		6.59	8.50
		93	6415		6.63	8.50
	802.11n HT20	1	5955	MCS0	7.63	8.50
		21	6055		7.44	8.50
		45	6175		6.76	8.50
		69	6295		6.63	8.50
		93	6415		6.66	8.50
	802.11n HT40	3	5965	MCS0	10.93	11.50
		19	6045		10.47	11.50
		43	6165		9.77	11.50
		67	6285		9.69	11.50
		91	6405		9.75	11.50
	802.11ac VHT20	1	5955	MCS0	7.75	8.50
		21	6055		7.36	8.50
		45	6175		6.70	8.50
		69	6295		6.70	8.50
		93	6415		6.70	8.50
	802.11ac VHT40	3	5965	MCS0	10.97	11.50
		19	6045		10.48	11.50
		43	6165		9.72	11.50
		67	6285		9.64	11.50
		91	6405		9.80	11.50
	802.11ac VHT80	7	5985	MCS0	13.65	14.50
		23	6065		13.36	14.50
		39	6145		12.88	14.50
		71	6305		12.84	14.50
		87	6385		12.83	14.50
	802.11ac VHT160	15	6025	MCS0	15.31	16.50
		47	6185		14.66	16.50
		79	6345		14.82	16.50
	802.11ax HEW20	1	5955	MCS0	7.81	8.50
		21	6055		7.33	8.50
		45	6175		6.72	8.50
		69	6295		6.55	8.50
		93	6415		6.66	8.50
	802.11ax HEW40	3	5965	MCS0	10.89	11.50
		19	6045		10.52	11.50

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802.11ax HEW80	43	6165		9.80	11.50
	67	6285		9.64	11.50
	91	6405		9.72	11.50
	7	5985	MCS0	13.69	14.50
	23	6065		13.35	14.50
	39	6145		12.85	14.50
	71	6305		12.76	14.50
	87	6385		12.80	14.50
	15	6025	MCS0	15.89	16.50
	47	6185		14.67	16.50
	79	6345		14.73	16.50
802.11be EHT20	1	5955	MCS0	7.71	8.50
	21	6055		7.40	8.50
	45	6175		6.81	8.50
	69	6295		6.58	8.50
	93	6415		6.60	8.50
802.11be EHT40	3	5965	MCS0	10.89	11.50
	19	6045		10.56	11.50
	43	6165		9.69	11.50
	67	6285		9.72	11.50
	91	6405		9.80	11.50
802.11be EHT80	7	5985	MCS0	13.56	14.50
	23	6065		13.37	14.50
	39	6145		12.84	14.50
	71	6305		12.82	14.50
	87	6385		12.80	14.50
802.11be EHT160	15	6025	MCS0	15.87	16.50
	47	6185		14.64	16.50
	79	6345		14.86	16.50
802.11be EHT320	31	6105	MCS0	12.81	14.50
	63	6265		12.97	14.50

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Shenzhen Branch Inspection & Testing Services Wireless Laboratory



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WIFI 6E Ant5 Body						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Average Power (dBm)	Tune up
U - NII - 5 6.2GHz	802.11a	1	5955	6Mbps	5.53	6.00
		21	6055		4.94	6.00
		45	6175		4.14	6.00
		69	6295		4.08	6.00
		93	6415		4.17	6.00
	802.11n HT20	1	5955	MCS0	5.13	6.00
		21	6055		4.97	6.00
		45	6175		4.24	6.00
		69	6295		4.16	6.00
		93	6415		4.19	6.00
	802.11n HT40	3	5965	MCS0	8.43	9.00
		19	6045		8.02	9.00
		43	6165		7.30	9.00
		67	6285		7.23	9.00
		91	6405		7.20	9.00
	802.11ac VHT20	1	5955	MCS0	5.26	6.00
		21	6055		4.82	6.00
		45	6175		4.22	6.00
		69	6295		4.15	6.00
		93	6415		4.18	6.00
	802.11ac VHT40	3	5965	MCS0	8.42	9.00
		19	6045		7.98	9.00
		43	6165		7.27	9.00
		67	6285		7.11	9.00
		91	6405		7.27	9.00
	802.11ac VHT80	7	5985	MCS0	6.63	7.50
		23	6065		6.32	7.50
		39	6145		5.89	7.50
		71	6305		5.84	7.50
		87	6385		5.87	7.50
	802.11ac VHT160	15	6025	MCS0	8.35	9.50
		47	6185		7.65	9.50
		79	6345		7.78	9.50
	802.11ax HEW20	1	5955	MCS0	5.34	6.00
		21	6055		4.86	6.00
		45	6175		4.25	6.00
		69	6295		4.08	6.00
		93	6415		4.20	6.00
	802.11ax HEW40	3	5965	MCS0	8.36	9.00
		19	6045		8.03	9.00

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802.11ax HEW80	43	6165		7.35	9.00
	67	6285		7.09	9.00
	91	6405		7.26	9.00
	7	5985	MCS0	6.67	7.50
	23	6065		6.34	7.50
	39	6145		5.90	7.50
	71	6305		5.74	7.50
	87	6385		5.76	7.50
	15	6025	MCS0	8.93	9.50
	47	6185		7.62	9.50
	79	6345		7.72	9.50
802.11be EHT20	1	5955	MCS0	5.19	6.00
	21	6055		4.93	6.00
	45	6175		4.28	6.00
	69	6295		4.07	6.00
	93	6415		4.05	6.00
802.11be EHT40	3	5965	MCS0	8.41	9.00
	19	6045		8.02	9.00
	43	6165		7.15	9.00
	67	6285		7.26	9.00
	91	6405		7.28	9.00
802.11be EHT80	7	5985	MCS0	6.57	7.50
	23	6065		6.40	7.50
	39	6145		5.81	7.50
	71	6305		5.83	7.50
	87	6385		5.80	7.50
802.11be EHT160	15	6025	MCS0	8.92	9.50
	47	6185		7.68	9.50
	79	6345		7.83	9.50
802.11be EHT320	31	6105	MCS0	5.76	7.50
	63	6265		5.97	7.50

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MIMO:

WIFI 6E MIMO						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Average Power (dBm)	Tune up
U - NII - 5 6.2GHz	802.11a	1	5955	6Mbps	10.43	11.50
		21	6055		10.18	11.50
		45	6175		10.16	11.50
		69	6295		10.33	11.50
		93	6415		10.37	11.50
	802.11n HT20	1	5955	MCS0	10.19	11.50
		21	6055		10.21	11.50
		45	6175		10.24	11.50
		69	6295		10.37	11.50
		93	6415		10.40	11.50
	802.11n HT40	3	5965	MCS0	13.46	14.50
		19	6045		13.27	14.50
		43	6165		13.01	14.50
		67	6285		13.43	14.50
		91	6405		13.49	14.50
	802.11ac VHT20	1	5955	MCS0	10.28	11.50
		21	6055		10.20	11.50
		45	6175		10.18	11.50
		69	6295		10.44	11.50
		93	6415		10.44	11.50
	802.11ac VHT40	3	5965	MCS0	13.45	14.50
		19	6045		13.29	14.50
		43	6165		12.96	14.50
		67	6285		13.38	14.50
		91	6405		13.54	14.50
	802.11ac VHT80	7	5985	MCS0	16.21	17.50
		23	6065		16.18	17.50
		39	6145		16.12	17.50
		71	6305		16.58	17.50
		87	6385		16.57	17.50
	802.11ac VHT160	15	6025	MCS0	18.08	19.50
		47	6185		17.65	19.50
		79	6345		18.30	19.50
	802.11ax HEW20	1	5955	MCS0	10.31	11.50
		21	6055		10.17	11.50
		45	6175		10.20	11.50
		69	6295		10.29	11.50
		93	6415		10.40	11.50
	802.11ax HEW40	3	5965	MCS0	13.43	14.50
		19	6045		13.26	14.50



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802.11ax HEW80	43	6165		13.04	14.50
	67	6285		13.38	14.50
	91	6405		13.46	14.50
	7	5985	MCS0	16.22	17.50
	23	6065		16.21	17.50
	39	6145		16.09	17.50
	71	6305		16.50	17.50
	87	6385		16.54	17.50
	15	6025	MCS0	18.59	19.50
	47	6185		17.69	19.50
	79	6345		18.57	19.50
802.11be EHT20	1	5955	MCS0	10.27	11.50
	21	6055		10.21	11.50
	45	6175		10.29	11.50
	69	6295		10.32	11.50
	93	6415		10.34	11.50
802.11be EHT40	3	5965	MCS0	13.41	14.50
	19	6045		13.30	14.50
	43	6165		12.93	14.50
	67	6285		13.46	14.50
	91	6405		13.54	14.50
802.11be EHT80	7	5985	MCS0	16.13	17.50
	23	6065		16.22	17.50
	39	6145		16.08	17.50
	71	6305		16.56	17.50
	87	6385		16.54	17.50
802.11be EHT160	15	6025	MCS0	18.62	19.50
	47	6185		17.70	19.50
	79	6345		18.11	19.50
802.11be EHT320	31	6105	MCS0	16.05	17.50
	63	6265		16.45	17.50

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WIFI 6E MIMO Head						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Average Power (dBm)	Tune up
U - NII - 5 6.2GHz	802.11a	1	5955	6Mbps	10.43	11.50
		21	6055		10.18	11.50
		45	6175		10.16	11.50
		69	6295		10.33	11.50
		93	6415		10.37	11.50
	802.11n HT20	1	5955	MCS0	10.19	11.50
		21	6055		10.21	11.50
		45	6175		10.24	11.50
		69	6295		10.37	11.50
		93	6415		10.40	11.50
	802.11n HT40	3	5965	MCS0	13.46	14.50
		19	6045		13.27	14.50
		43	6165		13.01	14.50
		67	6285		13.43	14.50
		91	6405		13.49	14.50
	802.11ac VHT20	1	5955	MCS0	10.28	11.50
		21	6055		10.20	11.50
		45	6175		10.18	11.50
		69	6295		10.44	11.50
		93	6415		10.44	11.50
	802.11ac VHT40	3	5965	MCS0	13.45	14.50
		19	6045		13.29	14.50
		43	6165		12.96	14.50
		67	6285		13.38	14.50
		91	6405		13.54	14.50
	802.11ac VHT80	7	5985	MCS0	12.69	14.00
		23	6065		12.63	14.00
		39	6145		12.59	14.00
		71	6305		13.10	14.00
		87	6385		13.07	14.00
	802.11ac VHT160	15	6025	MCS0	14.57	16.00
		47	6185		14.14	16.00
		79	6345		14.82	16.00
	802.11ax HEW20	1	5955	MCS0	10.31	11.50
		21	6055		10.17	11.50
		45	6175		10.20	11.50
		69	6295		10.29	11.50
		93	6415		10.40	11.50
	802.11ax HEW40	3	5965	MCS0	13.43	14.50
		19	6045		13.26	14.50



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802.11ax HEW80	43	6165		13.04	14.50
	67	6285		13.38	14.50
	91	6405		13.46	14.50
	7	5985	MCS0	12.72	14.00
	23	6065		12.71	14.00
	39	6145		12.59	14.00
	71	6305		13.02	14.00
	87	6385		13.01	14.00
	15	6025	MCS0	15.12	16.00
	47	6185		14.16	16.00
	79	6345		15.07	16.00
802.11be EHT20	1	5955	MCS0	10.27	11.50
	21	6055		10.21	11.50
	45	6175		10.29	11.50
	69	6295		10.32	11.50
	93	6415		10.34	11.50
802.11be EHT40	3	5965	MCS0	13.41	14.50
	19	6045		13.30	14.50
	43	6165		12.93	14.50
	67	6285		13.46	14.50
	91	6405		13.54	14.50
802.11be EHT80	7	5985	MCS0	12.65	14.00
	23	6065		12.67	14.00
	39	6145		12.58	14.00
	71	6305		13.04	14.00
	87	6385		13.02	14.00
802.11be EHT160	15	6025	MCS0	15.12	16.00
	47	6185		14.21	16.00
	79	6345		14.65	16.00
802.11be EHT320	31	6105	MCS0	12.55	14.00
	63	6265		12.93	14.00

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WIFI 6E MIMO Body						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Average Power (dBm)	Tune up
U - NII - 5 6.2GHz	802.11a	1	5955	6Mbps	7.91	9.00
		21	6055		7.70	9.00
		45	6175		7.64	9.00
		69	6295		7.82	9.00
		93	6415		7.87	9.00
	802.11n HT20	1	5955	MCS0	7.71	9.00
		21	6055		7.70	9.00
		45	6175		7.74	9.00
		69	6295		7.87	9.00
		93	6415		7.93	9.00
	802.11n HT40	3	5965	MCS0	10.94	12.00
		19	6045		10.79	12.00
		43	6165		10.49	12.00
		67	6285		10.93	12.00
		91	6405		11.02	12.00
	802.11ac VHT20	1	5955	MCS0	7.83	9.00
		21	6055		7.74	9.00
		45	6175		7.71	9.00
		69	6295		7.92	9.00
		93	6415		7.94	9.00
	802.11ac VHT40	3	5965	MCS0	10.97	12.00
		19	6045		10.76	12.00
		43	6165		10.43	12.00
		67	6285		10.87	12.00
		91	6405		11.05	12.00
	802.11ac VHT80	7	5985	MCS0	9.16	10.50
		23	6065		9.13	10.50
		39	6145		9.09	10.50
		71	6305		9.60	10.50
		87	6385		9.59	10.50
	802.11ac VHT160	15	6025	MCS0	11.08	12.50
		47	6185		10.67	12.50
		79	6345		11.31	12.50
	802.11ax HEW20	1	5955	MCS0	7.82	9.00
		21	6055		7.66	9.00
		45	6175		7.70	9.00
		69	6295		7.81	9.00
		93	6415		7.91	9.00
	802.11ax HEW40	3	5965	MCS0	10.96	12.00
		19	6045		10.79	12.00

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SZSAR-TRF-01 Rev. A/0 May15,2023

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802.11ax HEW80	43	6165		10.53	12.00
	67	6285		10.84	12.00
	91	6405		10.94	12.00
	7	5985	MCS0	9.18	10.50
	23	6065		9.18	10.50
	39	6145		9.12	10.50
	71	6305		9.51	10.50
	87	6385		9.52	10.50
	15	6025	MCS0	11.61	12.50
	47	6185		10.66	12.50
	79	6345		11.59	12.50
802.11be EHT20	1	5955	MCS0	7.75	9.00
	21	6055		7.69	9.00
	45	6175		7.80	9.00
	69	6295		7.79	9.00
	93	6415		7.83	9.00
802.11be EHT40	3	5965	MCS0	10.90	12.00
	19	6045		10.77	12.00
	43	6165		10.41	12.00
	67	6285		10.96	12.00
	91	6405		11.03	12.00
802.11be EHT80	7	5985	MCS0	9.12	10.50
	23	6065		9.14	10.50
	39	6145		9.09	10.50
	71	6305		9.58	10.50
	87	6385		9.52	10.50
802.11be EHT160	15	6025	MCS0	11.58	12.50
	47	6185		10.67	12.50
	79	6345		11.14	12.50
802.11be EHT320	31	6105	MCS0	9.03	10.50
	63	6265		9.39	10.50

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4.2 PD Test Data

Wi-Fi 6E PD Test Record MIMO															
Test position	Test mode	Test ch./Freq.	Distance (mm)	Grid Step (λ)	Duty Cycle Scaled factor	iPDn	iPD ratio	Measured PD 4cm^2 (W/m^2)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor for measurement uncertainty	Tune up Scaled factor	Scaled PD 4cm^2 (W/m^2)	
Power Density Test DATA															
Front side	802.11ac 160M	79/6345	2	0.0625	99.67%	1.003	11.90	0.26	4.42	-0.14	11.31	12.50	1.5493	1.314	9.028
Front side	802.11ac 160M	79/6345	9.8	0.0625	99.67%	1.003	11.20		1.26	0.02	11.31	12.50	1.5493	1.314	2.574
Back side	802.11ac 160M	79/6345	2	0.0625	99.67%	1.003	/	/	2.74	-0.08	11.31	12.50	1.5493	1.314	5.597
Left side	802.11ac 160M	79/6345	2	0.0625	99.67%	1.003	/	/	0.11	0.05	11.31	12.50	1.5493	1.314	0.225
Right side	802.11ac 160M	79/6345	2	0.0625	99.67%	1.003	/	/	2.69	0.05	11.31	12.50	1.5493	1.314	5.495
Top side	802.11ac 160M	79/6345	2	0.0625	99.67%	1.003	/	/	2.55	0.05	11.31	12.50	1.5493	1.314	5.209
Front side	802.11ac 160M	15/6025	2	0.0625	99.67%	1.003	/	/	2.78	0.06	11.08	12.50	1.5493	1.388	5.995
Front side	802.11ac 160M	47/6185	2	0.0625	99.67%	1.003	/	/	2.59	0.09	10.67	12.50	1.5493	1.524	6.133

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5 Equipment list

Test Platform		SPEAG DASY Professional				
Description		PD Test System				
Software Reference		cDASY6 V2.2.0.76				
Hardware Reference						
Equipment	Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration	
<input checked="" type="checkbox"/> Test Phantom	SPEAG	mmWave	SZ-WSR-A-029	NCR	NCR	
<input checked="" type="checkbox"/> DAE	SPEAG	DAE4	SZ-WSR-M-031	2025/2/17	2026/2/16	
<input checked="" type="checkbox"/> E-U Probe	SPEAG	EUmmWV4	SZ-WSR-M-048	2024/8/23	2025/8/22	
<input checked="" type="checkbox"/> 5G Verification Source	SPEAG	10GHz	SZ-WSR-M-048	2024/8/20	2025/8/19	
<input checked="" type="checkbox"/> Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2024/6/26	2025/6/25	
<input checked="" type="checkbox"/> RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR	
<input checked="" type="checkbox"/> Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2025/1/7	2026/1/6	
<input checked="" type="checkbox"/> Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR	
<input checked="" type="checkbox"/> Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR	
<input checked="" type="checkbox"/> Power Meter	Agilent	E4416A	SZ-WSR-M-007	2025/1/7	2026/1/6	
<input checked="" type="checkbox"/> Power Sensor	Agilent	8481H	SZ-WSR-M-008	2025/1/7	2026/1/6	
<input checked="" type="checkbox"/> Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2025/1/8	2026/1/7	
<input checked="" type="checkbox"/> Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR	
<input checked="" type="checkbox"/> Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2024/05/28	2025/05/27	

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6 Measurement Uncertainty

a	b	c	d	e	f=b*e/d	g
Error Description	Uncertainty Value (\pm dB)	Probability	Div.	Ci	Standard Uncertainty (\pm dB)	Vi (Veff)
Probe Calibration	0.49	N	1	1	0.49	∞
Probe correction	0.00	R	1.732	1	0.00	∞
Frequency response (BW \leq 1 GHz)	0.20	R	1.732	1	0.12	∞
Sensor cross coupling	0.00	R	1.732	1	0.00	∞
Isotropy	0.50	R	1.732	1	0.29	∞
Linearity	0.20	R	1.732	1	0.12	∞
Probe scattering	0.00	R	1.732	1	0.00	∞
Probe positioning offset	0.30	R	1.732	1	0.17	∞
Probe positioning repeatability	0.04	R	1.732	1	0.02	∞
Sensor mechanical offset	0.00	R	1.732	1	0.00	∞
Probe spatial resolution	0.00	R	1.732	1	0.00	∞
Field impedance dependance	0.00	R	1.732	1	0.00	∞
Amplitude and phase drift	0.00	R	1.732	1	0.00	∞
Amplitude and phase noise	0.04	R	1.732	1	0.02	∞
Measurement area truncation	0.00	R	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.732	1	0.00	∞
Field reconstruction	2.00	R	1.732	1	1.15	∞
Forward transformation	0.00	R	1.732	1	0.00	∞
Power density scaling	0.00	R	1.732	1	0.00	∞
Spatial averaging	0.10	R	1.732	1	0.06	∞
System detection limit	0.04	R	1.732	1	0.02	∞
Probe coupling with DUT	0.00	R	1.732	1	0.00	∞
Modulation response	0.40	R	1.732	1	0.23	∞
Integration time	0.00	R	1.732	1	0.00	∞
Response time	0.00	R	1.732	1	0.00	∞
Device holder influence	0.10	R	1.732	1	0.06	∞
DUT alignment	0.00	R	1.732	1	0.00	∞
RF ambient conditions	0.04	R	1.732	1	0.02	∞
Ambient reflections	0.04	R	1.732	1	0.02	∞
Immunity / secondary reception	0.00	R	1.732	1	0.00	∞
Drift of the DUT		R	1.732	1	0.00	∞
Combined Std. Uncertainty					1.33	
Expanded STD Uncertainty (95%), K=2					2.67	



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7 Calibration certificate

Please see the Appendix C

8 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

---END---



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