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World Standardization Certification & Testing Group (Shenzhen) Co., ltd.

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INFINIX MOBILITY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI 5 47

STREET FOTAN NT HONGKONG

Model: X6856

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\wedge	Test Engineer:	Zeng Longhao Zeng Longham	
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	Report Number:	WSCT-ANAB-R&E241200075A-SAR	\sim
	Report Date:	06 January 2025	\wedge
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TEL:0086-755-26996192 2	6996053 26996144 FAX : 0086-755-86376605	E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com World Standardization Certification& Testing Gro	oup(Shenzhen) Co.,Ltd
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Report No.: WSCT-ANAB-R&E241200075A-SAR SAR Evaluation Report

	WSET WSE	Table of contents	WSET	WSET
V	General information		/	3
<u> </u>	1 Notes		<u> </u>	
WSET	2 Application details	1115 617		
1.	3 EUT Information	//		4
2	Testing laboratory			
3	ACCREDITATIONS	T WSET	WSET	WELT
4	Test Environment	\rightarrow		6
5	Applicant and Manufacturer	WISTER WIS		6
6	Test standard/s:			7
6.	1 RF exposure limits	X	X	8
6.	2 Compliancy			9 [7]
7	Measurement System			10
7.	1 MAGPy Probe Information			
W5 [7.	2 Measurement procedure	WSTT WS	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
8	Test results			12
9	Test equipment and ancillaries u	used for tests	\square	
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Page 2 of 21

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Report No.: WSCT-ANAB-R&E241200075A-SAR SAR Evaluation Report

Modified History

	A State of the second				
	REV.	Modification Description	Issued Date	Remark	
\rangle	REV.1.0	Initial Test Report Relesse	06 January 2025	Li Huaibi	
V5.	7	WSET WSET	WSET	WSET	/
	X		\vee \vee		1

General information

WS71.1 Notes

1

The test results of this test report relate exclusively to the test item specified in this test report. Shenzhen Timeway Testing Laboratories does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reproduced or published in full without the prior written permission.

1.2 Application details

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	WSET N			WALL	WSET W	
	Date of receipt o	f test item:	2024-11-08			
	Start of test:	\wedge	2025-01-02			
1	End of test:	WSET	2025-01-06	WSET	WSET	1
				\bigvee	\bigvee	
		/		\mathbf{X}	\wedge /	
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	WSET	W	527	WSLT		
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Page 3 of 21

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AST National Accreditation Board AST National Accreditation Board A C C R E D I T E D Certificate Automatic Associations Certificate Automatic Associations

Report No.: WSCT-ANAB-R&E241200075A-SAR SAR Evaluation Report

1.3 EUT Information

		1-16
Device Information:		2/15
Product Type:	Mobile Phone	
Model:	X6856	
Trade Name:	Infinix	
Device Type:	Portable device	
Exposure Category:	uncontrolled environment / general population	\checkmark
Software version :	X6856-15.0.1	\sim
Hardware version:	V1.2	-
Power Source:	Adapter: U900XSA Input: 100-240V~50/60Hz 0.6A Output: 5.0V2.4A or 7.5V2.4A 18.0W MAX Rechargeable Li-ion Polymer Battery Model: BL-5ABX Rated Voltage: 3.86V Rated Capacity: 4900mAh/18.97Wh Typical Capacity: 5000mAh/19.35Wh Limited Charge Voltage: 4.45V	

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Antenna Type	Operation Frequency	Wireless Output	Maximum Coil operating current	Modulation Type
Coil	115-148 kHz 🧹	4Watts	4A	ASK&FSK

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EUT Methods for Complying with Section §15.203

Permanently attached antenna

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Antennas using unique coupling with intentional radiators

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Page 4 of 21

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Report No.: WSCT-ANAB-R&E241200075A-SAR SAR Evaluation Report

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Testing laboratory

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21	Test Site	World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.	-
	Loborotory A:	Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan	
	Laboratory A.	Street, Bao'an District, Shenzhen City, Guangdong Province, China	
		Building J-7F and Building D, Dongjiang Science & Technology Park, Tangjia	C
	Laboratory B:	Community, Fenghuang Street, Guangming District, Shenzhen City, Guangdong	1
	/	Province, China	

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ACCREDITATIONS 3

Our laboratories are accredited and approved by the following approval agencies according

to ISO/IEC 17025.

CBTI	IECEE(international Electrotechnical Commiss, The	Laboratory A
CBIL	certificate registration number is TL672)	Laboratory B
China	CNAS (The cortificated registration number: 1.2722)	Laboratory A
China	CNAS (The certificated registration number, L3732)	Laboratory B
	A2LA (The partificated registration number: 5769.01)	Laboratory A
USA	AZEA (The certificated registration number: 5768.01)	Laboratory B
	ANAR (The cortificated registration number: AT 2051)	Laboratory A
USA	ANAD (The certificated registration number AT-3951)	Laboratory B

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Copies of granted accreditation certificates are available for downloading from our web site,

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40M # g A-B Baoli'an Industrial Park No 58 ict, Shenzhen Ci 深圳世标检测认证股份有限公司 6-755-26996192 26996053 26996144 FAX: 0086-755-86376605

Page 5 of 21

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Test Environment

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

SAR Evaluation Report

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Parameter	Measurement Uncertainty	
Temperature	±1°C T	
Humidity	±5%	51,
H-field	2.11dB	
 E-field	2.18dB	

Applicant and Manufacturer

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	Applicant/Client Name:	INFINIX MOBILITY LIMITED	ws.
X	Applicant Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG	
7	Manufacturer Name:	INFINIX MOBILITY LIMITED	
	Manufacturer Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG	\geq

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Test standard/s:

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	No.	Identity	Document Title	/
	1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices	
	2	47 CFR Part 1.1310	Maximum Permissible Exposure (MPE)	2
$\overline{}$	3	47 CFR Part 15 Subpart C	Radio Frequency Devices:Intentional Radiators	
\rightarrow	4	KDB 680106 D01 V04	Equipment authorization of wireless power transfer devices	
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Page 7 of 21



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Report No.: WSCT-ANAB-R&E241200075A-SAR SAR Evaluation Report

6.1 RF exposure limits

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Pursuant to §1.1310, systems operating under the provisions of this section shall be operated in a manner that in such a manner as to ensure that the public is not exposed to radio frequency energy levels in excess of the Commission guidelines

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)			
	(I) LIMITS FOR OCCUPATIONAL/CONTROLLED EXPOSURE						
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			
300-1,500			f/300	<6			
1,500-100,000			5	<6			
	(II) LIMITS FOR GENERA	AL POPULATION/UNCONTROLLED E	XPOSURE				
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			
300-1,500			f/1500	<30			
1,500-100,000			1.0	<30			

f = frequency in MHz. * = Plane-wave equivalent power density

According to KDB 680106 D01 V04 clause 3.2

Accordingly, for § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively. For § 2.1093-Portable devices below 4 MHz and down to 100 kHz, the MPE limits in § 1.1310 (with the 300 kHz limit applicable all the way down to 100 kHz) can be used for the purpose of equipment authorization in lieu of SAR evaluations.

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Page 8 of 21



ACC RED LABORATORY Certificial Multimer: AT-2951

Report No.: WSCT-ANAB-R&E241200075A-SAR SAR Evaluation Report

6.2 Compliancy

There might be situations where the WPT RF emissions are limited enough that even operations in a "crowded" environment, where many similar WPT devices are present, do not pose significant EMC and RF exposure concerns. In this scenario, and for devices operating within a one-meter distance from the receiver, as defined above, a manufacturer will not have to submit an "Equipment Compliance Review" KDB, and receive FCC concurrence before proceeding with equipment authorization. This exception to the requirement of submitting the ECR to obtain FCC concurrence only applies when all the following criteria

through (6) are met:

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- (1) The power transfer frequency is below 1 MHz.
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
 - (3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)
 - (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).

(5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along 157 the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

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Page 9 of 21

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CC REAL STRATEGISTICS

Report No.: WSCT-ANAB-R&E241200075A-SAR

Measurement System

7.1 MAGPy Probe Information

The full MAGPy-8H3D+E3D V2 probe consists of eight isotropic H-field subprobes and one isotropic E-field subprobe that are all integrated inside the probe head with a flat tip. Each isotropic H-field subprobe comprises three concentric orthogonal loop coil sensors. The isotropic E-field subprobe is composed of three orthogonal sensors (x and y sensors are dipoles and the sensor measuring the z component is a monopole). In total, the MAGPy-8H3D+E3D V2 probe is thus composed of nine subprobes and 27 single sensors that measure in the time-domain. The flat-tip probe design brings the sensors closer to the tip (e.g., the closest H-field sensors are now 7.5mm from the tip). The probe specifications are provided in Table 2.1.

SAR Evaluation Report

			\sim
/	Parameter	Specs	\wedge
M	Probe design		WSET
\times	Diameter	$60\mathrm{mm}$	
557	8 isotropic H -field sensors	concentric loops of 1 cm^2 arranged at the corner of a cube of 22 mm side length	
	1 isotropic E -field sensor	orthogonal dipole/monopole (arm length: $50\mathrm{mm}$)	$\overline{}$
1	Measurement center	18.5 mm from the probe tip	
/V	Temperature range	$0{-}40\ ^{\circ}\mathrm{C}$	WSET
\times	Dimensions	$110 \times 635 \times 35 \text{ mm}$ (MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)	
5 <i>CT</i>		,	\frown
	Frequency renge	2 hHz 10 MHz	\sim
	Measurement range	$0.1_{3200} \text{ A/m} = 0.12 \text{ mT}_{4} \text{ mT}$	\sim
W	Gradient range	0-80 T/m/T	WSET
\times	E-FIELD SPECIFICATION	, ,	
	Frequency range	$3\mathrm{kHz}$ -10 MHz	> /
SET	Measurement range	$0.08-2000{ m V/m}$	\leftarrow
	Table 2.1: MAGPy	-8H3D+E3D V2 probe specifications	\mathbf{X}
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Page 10 of 21

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7.2 Measurement procedure

Place the EUT on the test bench to stimulate the wireless charging mode, manually adjust the initial position of the probe to the highest center point of the EUT horizontal plane, the distance between a piece of A4 paper, set up the parameters in the WPT software to test

According to KDB 680106, since the measurement distance from the center of the probe to the tip of the probe is 1.85 cm, the minimum measurement distance is 1.85 cm; to obtain the H-field and E-field at 0 cm, perform the following steps.

1) Measure the H-field and E-field at 2~6cm from the surface of the EUT along all major axes relative to the surface of the EUT; the test spacing is 1cm. For the backside of the EUT, measurements were taken at a distance of 3 to 7 cm because the wireless charging load has a certain thickness and needs to be fitted to derive the most conservative values.

2) Record the highest emission level.

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- 3) Based on the measured data, fit a curve using the measured distance as the horizontal coordinate, and fit the curve using the measured H-field or E-field as the vertical coordinate.
- 4) The fitted curve needs to be verified by probe measurements of the two points closest to the surface of the equipment; the difference must be less than 30%.

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5) Estimate the H-field or E-field at 0 cm from the fitted curve and compare it with the limit values.

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Page 11 of 21

















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Report No.: WSCT-ANAB-R&E241200075A-SAR SAR Evaluation Report

Validate the fitted curve according to KDB 680106, the error between the two nearest test points must not exceed 30%.

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>	Measuring Position	Measuring Distance (mm)	Measured E-Field (A/m)	Estimated E-Field (A/m)	Error value (%)	Limit (%)	Z
W5	57	W5C20	0.82 57	0.84 WS	-2.38	W5C±30	
	Front side	30	0.71	0.72	-1.39	±30	/
	Poprisido	30	0.72	0.71	1.41	±30	
	WSLT	40 W 5	0.59	W5_0.58	1.72 [7]	±30 W5	ł
1	Left side	20	0.81	0.80	1.25	±30	
/		30	0.63	0.65	-3.08	±30	
ws	77 Right side	W5-20	0.41	0.40	2.50	ws_±30	
	Right side	30	0.34	0.32	6.25	±30	
	Topside	20	0.35	0.36	-2.78	±30	5
	wsrr	30	0.29	0.30	-3.33	±30	ay
/	Bottom side	20	0.54	0.53	1.89	±30	
	Bottom side	30	0.39	0.42	-7.14	±30	
1							

ATT TO	and and Shareholder and S	A Destance of the second secon	 A strange was a s	A CONTRACTOR		States and the same same of the same	
<u> /////</u>	Measuring Position	Measuring Distance (mm)	Measured E-Field (A/m)	Estimated E-Field (A/m)	Error value (%)	Limit (%)	\langle
	WSCT	20 W 5	22.17	W 5 22.11	0.27 [7]	±30 W5	57
1	Front side	30	14.58	14.80	-1.49	±30	
	Poor side	30	19.63	19.74	-0.56	±30	
W/S	Real side	W5C40	13.59	13.48 13.48	0.82	w5[±30	
	Left side	20	24.35	24.15	0.83	±30	/
		30	16.29	16.78	-2.92	±30	5
Right side Top side	Pight cide	20	12.05	12.17	-0.99	±30	C 7
	Right side	30	8.34	8.22	1.46	±30	
	Top side	20	10.32	10.19	1.28	±30	
		30	6.34	6.64	-4.52	±30	
ener	Pottom cida	20	14.25	14.34	-0.63	±30	
	Bottom side	30	10.98	10.64	3.20	±30	

ADD : Bullding A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue. Shiyan Street, Bao'an District, Shenzhen Cify Guangdong Province. China, 正期世际检测认证股份有限公司 TEL: 0088-755-26996192 26996053 26996134 FAX: 0088-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com World Standard Street Tel: 0088-755-26996192 26996134 FAX: 0088-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com World Standard Street Tel: 0088-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

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Page 18 of 21

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Report No.: WSCT-ANAB-R&E241200075A-SAR SAR Evaluation Report

The H-Field and E-Field values for each measured 0 mm position of the EUT were obtained by extrapolating from the equations of each fitted curve.

\sim		\sim			\sim
WEIT	Measuring	Measuring Distance	Measured H-Field	Limit	WSET
	Position	(mm)	(A/m)		
WEET	Front side	T	1.08	WSET	WISET
\sim	Rear side	\sim	1.12	/	\bigtriangledown
WSET	Left side	WSET	1.09 WS	c r	WSET
	Right side	0	0.48	1.63 W/S/FT	WISTAT
WSET	Top side Bottom side	WESTER	0.47		WISTER
\sim		/	\bigvee	\sim	\sim
$ \land \land$	Measuring	Measuring	Measured		

WSET	Measuring Position	Distance (mm)	E-Field (A/m)	Limit	WSET
WSCT	Front side	WSET	41.60	T	WSET
\sim	Rear side	$\langle \rangle$	46.93	\sim	
WSET	Left side VS	7	ws 43.09	WSET	WSET
\mathbf{X}	Right side	0	22.36	614	X
WSET	Top side	WSET	19.64		WSET
WSET	Bottom side		22.33 WSCT	WSET	scation& Testin
WISICI	WSET	WISIET	WIS	CT	The second secon
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Page 19 of 21

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Report No.: WSCT-ANAB-R&E241200075A-SAR SAR Evaluation Report

	EUT in accordance with clause 5.2 of KDB 680106 D01 V04		
<	1.The power transfer frequency is below 1 MHz	Yes, the operation frequency is 115-148 kHz.	<u>I</u>
	2. The output power from each transmitting element (e.g., coil) is	Yes, the maximum output power of primary	
/	less than or equal to 15 watts.	coil is 4 Watts	
7	3.A client device providing the maximum permitted load is placed	WSET WSET	
	in physical contact with the transmitter (i.e., the surfaces of the	Yes, client device is placed directly in contact with the transmitter	/
	transmitter and client device enclosures need to be in physical		1
	contact)	August August	i T
	4.Only § 2.1091-Mobile exposure conditions apply (i.e., this	No, portable exposure conditions.	-
	provision does not cover § 2.1093-Portable exposure conditions).	X X	
2	5.The E-field and H-field strengths, at and beyond 20 cm	\bigtriangleup \bigtriangleup	
7	surrounding the device surface, are demonstrated to be less than	WSET	
	50% of the applicable MPE limit, per KDB 44/498, Table 1. These		/
	measurements shall be taken along the principal axes of the device,		1
	maximum field strength and for three points per axis or until a 1/d	WSET WS	a)
5	(inverse distance from the emitter structure) field strength decay is	No, the test result for E-field and H-field	
	observed. Symmetry considerations may be used for test reduction	strength are not at 20cm distance.	
	purposes. The device shall be operated in documented worst-case		
1	compliance scenarios (i.e., the ones that lead to the maximum field	AWSLI	_
	components), and while all the radiating structures (e.g., coils or		/
	antennas) that by design can simultaneously transmit are energized		1
	at their nominal maximum power WSCT WSCT	WSET WS	d)
1	6.For systems with more than one radiating structure, the		
/	conditions specified in (5) must be met when the system is fully		
	loaded (i.e., clients absorbing maximum power available), and with	WST	
ſ	all the radiating structures operating at maximum power at the		7
	same time, as per design conditions. If the design allows one or	Yes, all the radiating structures operating at maximum power at the same time.	
	more radiating structures to be powered at a higher level while		
	other radiating structures are not powered, then those cases must	WSET	ġ,
1	be tested as well. For instance, a device may use three RF coils	\vee \vee	
1	powered at 5 W, or one coil powered at 15 W: in this case, both	\wedge \wedge	
7		wson wson	

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Page 20 of 21

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Test equipment and ancillaries used for tests

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To simplify the identification of the test equipment and/or ancillaries which were used, the reporting of the relevant test cases only refer to the test item number as specified in the table below.

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	WSFT	WS		WELT	calibration	WST	A
1	Manufacturer	Device Type	Type(Model)	Serial number	Last Cal.	Due Date	
	SPEAG	Probe	MAGPY- 8H3D+E3D	3087	2024.11.01	2025.10.31	
ws	LT	WSET	WSET	WS	7	WSET	/
	\sim		/	$\overline{\nabla}$		\sim	
			\backslash	\wedge			
	WSET	WS		WSET	WSET	WSET	N
		\mathbf{X}				\sim	
4		Δ			\geq	\square	
ZWS		WSLI	WSLI			WSLI	/
	X	\rightarrow	$\langle \rangle$	X	X	X	
K.	WSET	WS		WSIT	WSFT	WSF	
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/	\leq	\mathbf{X}		/		\mathbf{X}	
W/S	Note:Test photos	to see X6856 _ test	setup photos file	WS	FT	WSET	/
	\sim			\sim		\sim	
	\sim						
4	WSET	WS	ET	WSET	WSET	WSET	
	<	X		\rightarrow		\times	
-					\rightarrow		.,
ZW3		WSLI				WSL	/
	\times	\rightarrow	<	\times	\times	— X	
	WSIT	WS	FT	WSET	WSET	ation& Tes	
1	/	$\overline{}$		/	/	Solution of the solution	
	$\langle \rangle$	\mathbf{X}			$\langle \rangle$	offering WSCT	
ws	<i>LT</i>	WSET	WSET	W/S	7		1/
ADD: Bulldin TEL: 0086-75	ig A-B,Baoli'an Industrial Park,No. 5-26996192 26996053 26996144	58 and 60, Tangtou Avenue, Shiya FAX : 0086-755-86376605	n Street, Bao'an District, Shenzhe E-mail: fengbing.wang@wsct-o	n City, Guangdong Province, Ch pert.com Http://www.wsct-cert.c	ina. 深圳世标检测认证股份有 World Standard ration Certifi	観公司 Column # P)	td
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Page 21 of 21