



FCC WPT Compliance Test Report

For

W5CT

TECNO MOBILE LIMITED

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

FOTAN NT HONGKONG

Model: LJ7

Test Engineer: Zhao Jiongjiong Zhao

Jiang Jion 9

Report Number: WSCT-ANAB-R&E250400021A

Report Date:

30 May 2025

W5ET

2ADYY-LJ7 FCC ID:

Wei Liangmei

Was Lianames

Approved By:

Li Huaibi

Prepared By:

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

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Modified History

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	REV.	Modification Description	Issued Date	Remark	LSLA
X	REV.1.0	Initial Test Report Relesse	30 May 2025	Li Huaibi	
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General information

1 General informa

1.1 Notes

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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Date of receipt of test item: 2025-03-11
Start of test: 2025-03-11

End of test: 2025-05-21

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Report No.: WSCT-ANAB-R&E250400021A





1.3 EUT Information

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	Device Information:		74
\langle	Product Type:	Mobile Phone	
	Model:	LJ7	
7.	Trade Name:	TECNO	
	Device Type:	Portable device	X
	Exposure Category:	uncontrolled environment / general population	7
/	Software version :	LJ7-15.1.0	
1	Hardware version:	V1.2	
Į,		Rechargeable Li-ion Polymer Battery: BL-58IT Rated Voltage: 3.92V	
	Power Source:	Rated Capacity: 5850mAh/22.94Wh	×
		Typical Capacity: 6000mAh/23.52Wh	
	Z 1 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Limited Charge Voltage: 4.53V	37

L	Antenna Type	Operation Frequency	Wireless Output	Maximum Coil operating current	Modulation Type
	Coil	115-148 kHz	4Watts	4.1A	ASK&FSK

EUT Methods for Complying with Section §15.203

Permanently attached antenna

Antennas using unique coupling with intentional radiators

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2. When NFC is working, other wireless functions will not transmit.

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WSET 2 **Testing laboratory Test Site** World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. 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 Laboratory B: Community, Fenghuang Street, Guangming District, Shenzhen City, Guangdong Province, China **ACCREDITATIONS** 3 Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025. IECEE(international Electrotechnical Commiss, The Laboratory A **CBTL** certificate registration number is TL672) Laboratory B X Laboratory A China CNAS (The certificated registration number: L3732) Laboratory B Laboratory A **USA** A2LA (The certificated registration number: 5768.01) Laboratory B Laboratory A X **USA** ANAB (The certificated registration number: AT-3951) Laboratory B Copies of granted accreditation certificates are available for downloading from our web site, WSE http://www.wsct-cert.com WSF

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4 Test Environment

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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.

	Parameter	Measurement Uncertainty	/
	Temperature	±1°C	
	Humidity	±5%	14
,	H-field	2.11dB	
-	E-field	2.18dB	

5 Applicant and Manufacturer

	Applicant/Client Name:	TECNO MOBILE LIMITED	'5 E
(Applicant Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG	
ni ni	Manufacturer Name:	TECNO MOBILE LIMITED	
	Manufacturer Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG	X

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6 Test standard/s:

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L	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	
	3	47 CFR Part 15 Subpart C	Radio Frequency Devices:Intentional Radiators	y

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RF exposure limits

<Limit for peak spatial-average SAR>

age SAR>

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Pursuant to §1.1310(c):

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

<Limits for Maximum Permissible Exposure>

According to §1.1310 (d)(2)

For operations within the frequency range of 300 kHz and 6 GHz (inclusive), the limits for maximum permissible exposure (MPE), derived from whole-body SAR limits and listed in Table 1 in paragraph (e)(1) of this section, may be used instead of whole-body SAR limits as set forth in paragraphs (a) through (c) of this section to evaluate the environmental impact of human exposure to RF radiation as specified in § 1.1307(b) of this part, except for portable devices as defined in § 2.1093 of this chapter as these evaluations shall be performed according to the SAR provisions in § 2.1093.

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

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(i) Limits for Oc	CCUPATIONAL/CONTROLLED EXPOS	SURE	
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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8 Measurement System

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8.1 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.

Parameter	Specs
Probe design	
Diameter	$60\mathrm{mm}$
8 isotropic H -field sensors	concentric loops of $1 \mathrm{cm}^2$ arranged at the corner of a cube of $22 \mathrm{mm}$ side length
1 isotropic E -field sensor	orthogonal dipole/monopole (arm length: 50 mm)
Measurement center	18.5 mm from the probe tip
Temperature range	0–40 °C
Dimensions	$110 \times 635 \times 35 \mathrm{mm}$ (MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)
H-field specification	
Frequency range	$3\mathrm{kHz}$ – $10\mathrm{MHz}$
Measurement range	$0.1 – 3200\mathrm{A/m},0.12\mu\mathrm{T} – 4\mathrm{mT}$
Gradient range	$0-80\mathrm{T/m/T}$
E-field specification	
Frequency range	$3\mathrm{kHz}$ $\!-10\mathrm{MHz}$
Measurement range	$0.08-2000{ m V/m}$

Table 2.1: MAGPy-8H3D+E3D V2 probe specifications

Sensor specifications:

• H-field extrapolation uncertainty: 0.6 dB (k = 2)

Ti-field extrapolation uncertainty. 0.0 db (/

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The following figure shows the system.

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8.2 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~ 4cm from the surface of the EUT along all major axes relative to the surface of the EUT; the test spacing is 0.5cm. 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.
- 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%.
- 5) Estimate the H-field or E-field at 0 cm from the fitted curve and compare it with the limit values. 10 cm from the fitted curve and compare it with the limit values.

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8.3 System Description

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1.DASY6/8 Module WPT V2.6+ is based on the MAGPy Version 2 technology integrated in DASY6/8 product line for high-precision robot-based evaluations of wireless power transfer (WPT) devices. It is the only system for fully automated compliance testing according to all international standards and national regulations. The precision is achieved by combining the MAGPy system with the DASY robotics system and Sim4Life simulation platform.

2.DASY6/8 Module WPT is composed of the isotropic probe MAGPy-8H3D+E3D Version 2, the reference probe (MAGPy-RAφ), and the data acquisition system (MAGPy-DAS) mounted to the DASY6/8 robot via the emergency stop (MAGPy-ES). It measures the incident electric (E-) and magnetic (H-) fields in a volume from the surface of the device under test (DUT) using advanced field reconstructions to obtain a high-resolution (mm range) field distribution. The induced E-field distributions and specific absorption rate (SAR) are assessed with Sim4Life's Quasi-Static EM Solver (P-EM-QS) using only the measured data. At each probe location, eight sets of isotropic H-field values and one set of isotropic E-field values are acquired in parallel. The dedicated graphical user interface (GUI) fully automates the testing workflow.

3. The system is fully compliant IEC PAS 63184, FCC KDB 680106 D01, ISED Canada SPR-002. W 5 []

Compliance Evaluation

DASY6/8 Module WPT SW version V2.6+ offers compliance evaluation with respect to:

- Reference levels on the basis of the incident H- and E-fields measured from the volume scan
- Basic restrictions on the basis of the peak induced E-field, peak induced current density, and **peak spatial-average SAR** calculated from the Sim4Life simulation.

Since SPEAG release a DASY8/6 Module WPT system (SW Module WPT V2.6+) for E and H-Field measurement, and also the system support Sim4Life plug-in includes the components to import the 3D H-fild scan data (Hx, Hy, Hz values in the measurement volume) to the Sim4Life simulation platform. And a magneto quasi-static (MQS) simulation is automatically setup to solve for a lossy halfspace Phantom setup. The lossy half-space has muscle tissue dielectric properties (σ = 0.75 S/m, ρ = 1000 kg/m3,), The induced electric (E-) fields and **specific absorption rate (SAR)** are assessed with Sim4Life's Quasi-Static EM Solver (P-EM-QS) using only the measured data.

The post-processing engine determines the maximum induced E-field, current density, and SAR values in a homogeneous half-space of muscle tissue equivalent media (half-space muscle phantom) positioned at the compliance distance. In general, the compliance distance corresponds to the closest point (with respect to the exposure source) the human body (e.g., a part of the hand) can reach during the operation of the source.

The relative dielectric constant, conductivity, and mass density of the homogeneous phantom used in the simulations were 55, 0.75 S/m, and 1000 kg/m3 respectively, which correspond to the phantom.

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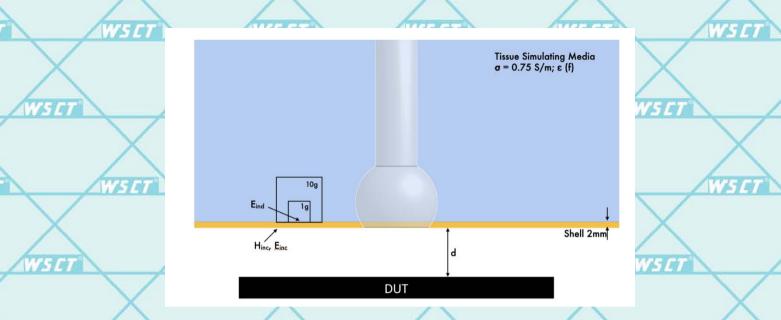
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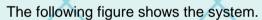




Simulation Results



Distance used in the tables for simulation and compliance evaluation results is defined as the spacing between the top surface of the DUT and the bottom surface of the fictive phantom shell (with a thickness of 2mm). In this case, the evaluation is made at distance d. Typically d = 0, i.e., at the DUT surface. The evaluation locations of the incident fields (i.e., H inc and E inc) as well as the induced fields (e.g., E ind , psSAR1g, and psSAR10g) are also illustrated.





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8.4 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

Six aspects of the EUT were tested successively, and H-field,E-field,PsSAR were obtained after the test, and the results were recorded

WS78.5 System verification

Below table shows the target value and measured value after normalized to 1A and comparing to the Target value provided by SPEAG calibration, the verification data should be within its specification of 1.33dB(16.6%,k=2)

/		1	
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	Test Date	Test Date Calibrated Parameters (kHz)		Target H-field (A/m)	Measurement H-field(A/m)
	2025.01.22	3 W5	2	150	153 W 5 C
Ţ	2024.11.01	85	2	189	200
	2025.01.18	400	2	249	232

2024.11.01	85	2 189		_ \ /
2025.01.18	400	2 249	232	X
WSET	WSET	WSET	WSET	WSET
W5ET W5E				527
WSET	WSET	WSET	WSET	WSET
W5ET W5E				5.27
X	X	X	X	\times

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9 Test results

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H-Field(A/m) & E-Field(V/m) result

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1	Measuring Position	Test Frequency(kHz)	
	W5CT Front side W5C	125.01	
	Measuring Distance (mm)	H-Field(A/m)	
	0	1.02	
	5	0.717	
`	10	0.520	
	15	0.409	
	20	0.290	

 \wedge

Measuring Position	Test Frequency(kHz)
Front side	125.01
Measuring Distance (mm)	E-Field(V/m)
20	150.0
25	95.4
30	75.0
35	52.9
40	49.9

WEIGHT WEIGHT

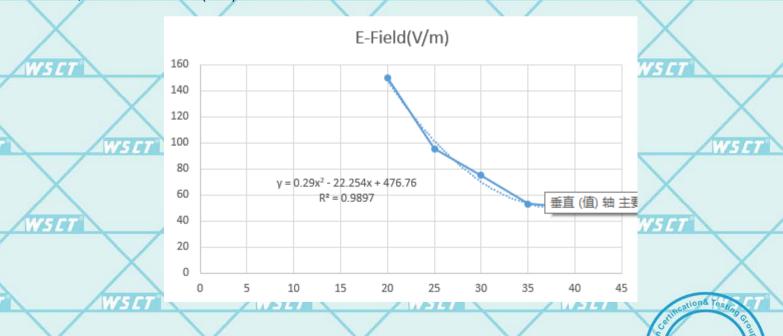
curve fitting diagram:

II) Front side E-Field(V/m): W5 III

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	Measuring Position	Test Frequency(kHz)
_	Rear side	W5 [T] 125.01 W5 [T]
	Measuring Distance (mm)	H-Field(A/m)
	0	1.02
1	5	0.717
1	10 W54	0.520
	15	0.409
	20	0.290

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Measuring Position	Test Frequency(kHz)
Rear side	125.01
Measuring Distance (mm)	E-Field(V/m)
W5/7 30 W5/	140.0
35	89.2
40	88.2
45	65.7
50	62.7

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curve fitting diagram:

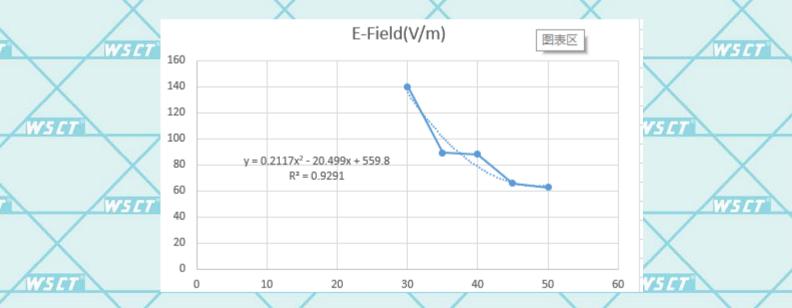
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	Measuring Position	Test Frequency(kHz)	
/	Left side	WS [T] 125.01 WS [T]	
	Measuring Distance (mm)	H-Field(A/m)	
	0	1.540	
2	5	1.030	_
	V5 C7 10 W5 C	0.792	
	15	0.444	
	20	0.284	

SET	Measuring Position	Test Frequency(kHz)
	Left side	125.01
	Measuring Distance (mm)	E-Field(V/m)
	W5 F 7 20 W5 F	47.4
	25	31.2
	30	16.2
\wedge	35	11.6
	40	11.0

curve fitting diagram:

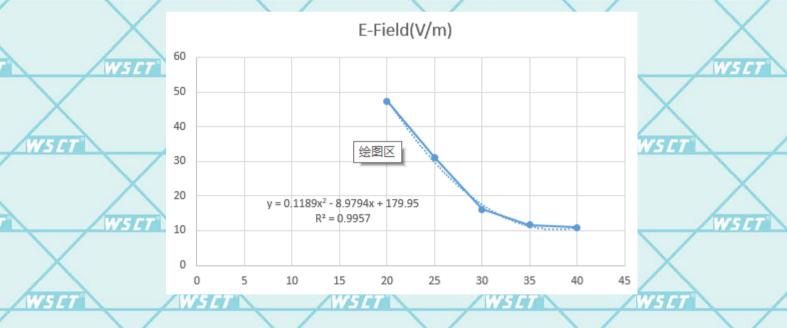
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V5 [I] Left side E-Field(V/m):

WSE



WSLT WSLT WSET W5 C1

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FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

tion& Tes

W5E7

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WSE



Report No.: WSCT-ANAB-R&E250400021A

WSET

	Measuring Position	Test Frequency(kHz)	
/	Right side	WS ET 125.01 WS ET	WSET
	Measuring Distance (mm)	H-Field(A/m)	
	0	0.482	
1	5	0.355	
4	10 W-54	0.304	WSCT
	15	0.224	
	20	0.177	X

WSLT	Measuring Position	Test Frequency(kHz)
	Right side	125.01
	Measuring Distance (mm)	E-Field(V/m)
	ws.rr 20 ws.r	32.0
	25	28.1
	30	23.9
	35	21.1
	40	20.7

curve fitting diagram:

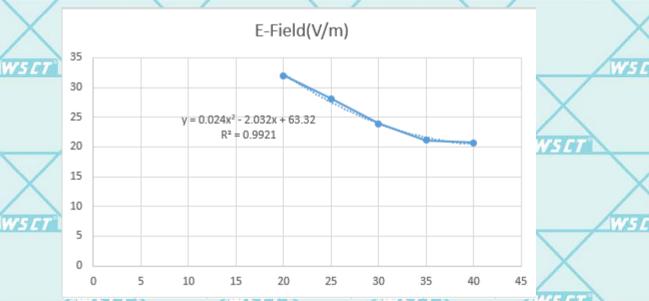
WSET

NS CT

NSCT

Right side E-Field(V/m):

WS ET WSE



WSLT WSLT WSET W5 C1 W5E7

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WSET

WSET



WSCI

WSE

W5 Report No.: WSCT-ANAB-R&E250400021A5 [7]

	Measuring Position	Test Frequency(kHz)
_	Top side	W5 [T] 125.01 W5 [T]
	Measuring Distance (mm)	H-Field(A/m)
	0	0.0467
1	5	0.0221
1	10 W54	0.0222
	15	0.0222
	20	0.0222

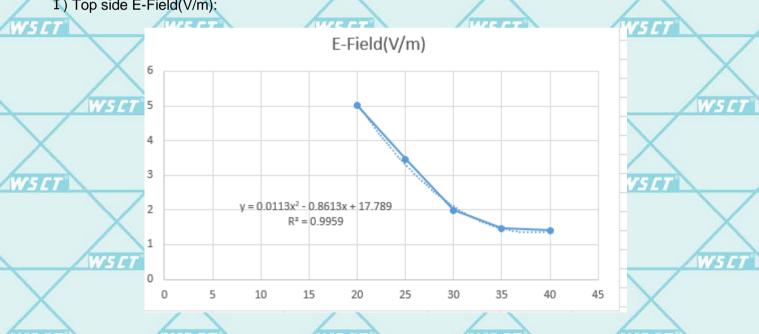
WSET

WSET

	Measuring Position	Test Frequency(kHz)
	Top side	125.01
	Measuring Distance (mm)	E-Field(V/m)
ĺ	20 W5	5.02
	25	3.46
	30	1.99
	35	1.47
	40	1.41

curve fitting diagram:

I) Top side E-Field(V/m):



WSLT

WSLT

WS ET

W5C7

W5 CT

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W5ET



WSET

WSET



WSCI

WSE

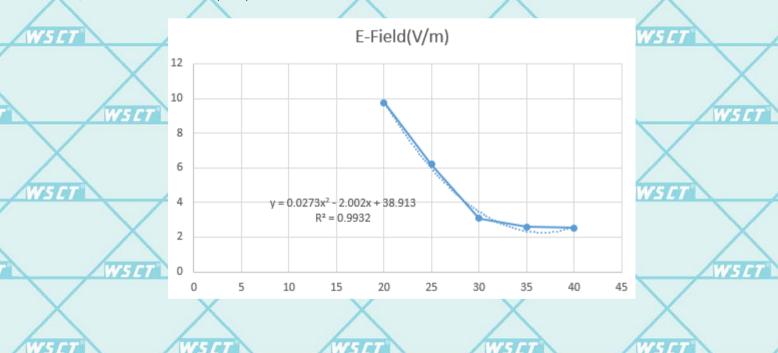
Report No.: WSCT-ANAB-R&E250400021A

Measuring Position	Test Frequency(kHz)
Bottom side	W5 [T] 125.01 W5 [T]
Measuring Distance (mm)	H-Field(A/m)
0	0.442
5	0.222
10	0.157
15	0.157
20	0.157

WSET Measuring Position Test Frequency(kHz) Bottom side 125.01 E-Field(V/m) Measuring Distance (mm) 20 9.75 25 6.20 30 3.09 35 2.59 40 2.52

curve fitting diagram:

I) Bottom side E-Field(V/m):



WSET WSET WSET WSET

WSET WSET

WSET

AWS CT

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ADD: Building A-B, Baoil'an Industrial Park, No.58 and 60, Tangtou Avenue. Shiyan Street, Bao'an District, Shenzhen Cify, Guangdong Province. China TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

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WSGT

tion& Tos

W5 E 7







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

	validate the litted co	arve according to ND	b 000 100, the end	between the two nea	irest test points musi	Hot exceed 50 %.	97
	Measuring	Measuring	Measured	Estimated	Error value(%)	Limit (%)	L
X	Position	Distance(mm)	E-Field(V/m)	E-Field(V/m)	Lifoi value(70)	Little (70)	
	Front side	20	150	147.68	1.571	±30	
7/	FIORE Side	W 5 C 25	95.4	101.66 1/5	-6.158	W 5 ±30	
	Rear side	30	140	135.35	3.436	±30	j
		35	89.2	101.6675	-12.263	±30	
	Left side	20 1/5	47.4	47.922	-1.089	±30	4
	Left side	25	31.2	29.775	4.786	±30	
×	Right side	20	32.0	32.28	-0.867	±30	
_	Right side	25	28.1	27.52	2.108	±30	
14	Top side	20	5.02	5.083	-1.239	±30	
	rop side	25	3.46	3.319	4.248	±30	X
	Bottom side	20	9.75	9.793	-0.439	±30	
	Bottom side	25 W 5	6.20	5.9255	4.633	±30	L

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.

	Magguring	Measuring	Measured	
	Measuring	Distance	E-Field	Limit
	Position	(mm)	(V/m)	
	Front side		476.76	
	Rear side		559.80	
	Left side	V65.57	179.95	614
-	Right side		63.320	014
	Top side		17.789	X
1	Bottom side		38.913	
-	- 26 1/14			

An assessment against the Limit for peak spatial-average SAR shall be performed for the EUT when the Limits for Maximum Permissible Exposure are exceeded.

4W5LT

WSCI

AWS CT

WSIT

W551

WSET

WSFT

WISTT

WISTT

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EL: 0088-755-26996192 26996053 26996144 FAX: 0086-755-86376805 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com

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WSET

WSLT

WSE







WSET

Test equipment and ancillaries used for tests

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.

	Manufacturer	Device Type	Type(Model)	Serial number	calibration	
	Manufacturer	Device Type	i ype(iviodei)	Serial Humber	Last Cal.	Due Date
<	SPEAG	Probe	MAGPY- 8H3D+E3DV2	3087	2024.11.01	2025.10.31
	SPEAG	V&V Source	V-Coil500/3V2	1028	2024.11.13	2027.11.14
B	SPEAG	V&V Source	V-Coil50/400V2	1034	2024.10.31	2027.11.01
	SPEAG	V&V Source	V-Coil350/85V2	1035	2024.11.06	2027.11.07

Note: V&V:verification & validation

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W5 [7]	WSET	WSLT	WSET	AWSET \

WSCT	WSLT	WSET	WSET	WSET

ATTACA COLOR	A SECOND PROPERTY OF THE PERSON NAMED IN COLUMN 1 AND ADDRESS OF T	Market and State of S	Address of the last of the las	A AP PER AND NAMED IN
WSET	WSET	W5ET	WSTATE	WSIT
				A # # # #

WSE	7	WSET	WSET	W5ET	WSET	١

1	WSET	WSCT	MARK THE STATE OF	WSLT	WSET
			WSET		

WSET	WSET	WSET	WSET	Lincations Testing
				All.

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