

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Ful Street, Bao'an District, Shenzhen, China

	F Exposure evaluation
Report Reference No	
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Testing Laboratory Name	: Shenzhen CTA Testing Technology Co., Ltd.
Address	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name	: Dongguan Langchen Technology Co.,Ltd.
Address	Room 704, No. 27 East, Wusha Xingfa South Road, Chang'an Town, Dongguan City, Guangdong Province, China
. 6	47CFR §1.1310
Standard	: 47CFR §2.1093
	KDB447498 D01 General RF Exposure Guidance v06
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material. Shenzhen CTA Testing Tec liability for damages resulting from th placement and context. Test item description Manufacturer Trade Mark Model/Type reference	 e reader's interpretation of the reproduced material due to its Smart watch Dongguan Langchen Technology Co.,Ltd. N/A Y15 DC 3.7V From battery and DC 5.0V From external circuit

CTATESTING Shenzhen CTA Testing Technology Co., Ltd. COM CTATES Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

Page 2 of 8

	TEST REF	U N1
CTATESTING		
Equipment under	Test : Smart watch	
Model /Type	: Y15	GA CTATESTING
Listed Models	: N/A	
Applicant	: Dongguan Langchen Te	echnology Co.,Ltd.
Address	: Room 704, No. 27 East, Dongguan City, Guangdo	Wusha Xingfa South Road, Chang'an Town, ong Province, China
Manufacturer	: Dongguan Langchen Te	echnology Co.,Ltd.
Address	: Room 704, No. 27 East, Dongguan City, Guangdo	Wusha Xingfa South Road, Chang'an Town,
GTATES	Test Result:	PASS
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It is not p the test la	ermitted to copy extracts of these te boratory.	hnology Co., Ltd. Community, Fuhai Street, Bao'an District, Shenzher

Report No.: CTA25031701702

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1 TEST STANDARDS

CTATESTING

The tests were performed according to following standards:

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. FCC KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures. FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits. FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices

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STING

SUMMARY 2

2.1 **General Remarks**

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2.1 General Remarks		ATESI	
Date of receipt of test sample	1	Mar. 19, 2025	
Testing commenced on	:	Mar. 19, 2025	
Testing concluded on	:	Mar. 24, 2025	Const.

	Testing concluded on	: Mar. 24, 2025
STIN	⁶ 2.2 Product Descrip	tion
ATESTIN	Product Description:	Smart watch
	Model/Type reference:	Y15
	Power supply:	DC 3.7V From battery and DC 5.0V From external circuit
	Testing sample ID:	CTA250317017-1# (Engineer sample) CTA250317017-2# (Normal sample)
	Hardware version:	V1.0
	Software version:	V1.0
	Bluetooth BLE	
	Supported type:	Bluetooth low Energy
	Modulation:	GFSK
	Operation frequency:	2402MHz to 2480MHz
	Channel number:	40
	Channel separation:	2 MHz
	Antenna type:	Internal antenna
	Antenna gain:	1.05 dBi
		ALCO INTERNATIONAL

Special Accessories 2.3

_	The following	is the EUT tes	t of the auxiliary	equipment provided by the	laboratory:		
	Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by	CTATES
	/	/	/	/	/	1	

Modifications 2.4

CTATESTING No modifications were implemented to meet testing criteria.

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3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd. Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: **FCC-Registration No.: 517856 Designation Number: CN1318**

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

Test	est Range		Notes	
Radiated Emission	9KHz~30MHz	3.02 dB	(1)	
Radiated Emission	30~1000MHz	4.06 dB	(1)	
Radiated Emission	1~18GHz	5.14 dB	(1)	
Radiated Emission	18-40GHz	5.38 dB	(1)	ES''
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)	
Output Peak power	30MHz~18GHz	0.55 dB	(1)	
Power spectral density	/	0.57 dB	(1)	
Spectrum bandwidth	/	1.1%	(1)	
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)	
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)	
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)	
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China

Test limit

4.1 Requirement

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.23 '

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] \cdot [\sqrt{f} (GHz)] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where:

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

4.2 Conducted Power Results

	Туре	Channel	Output power (dBm)	
Contraction of the		00	-5.13	-IN
	GFSK 1Mbps	19	-6.74	TESTIN
		39	-6.53	CTA

4.3 Manufacturing tolerance

GFSK (Peak)							
Channel Channel 00		Channel 19	Channel 39				
Target (dBm)	-5.0	-6.0	-6.0				
Tolerance ±(dB)	1.0	1.0 1.0					
4.4 Evaluation Re	sult	CT CT	ATESTINO				

Evaluation Result 4.4

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China

Report No.: CTA25031701702

Evaluation Results

Band/Mode	f (GHz)	Antenna Distance	RF output power (including tune-up tolerance)		SAR Test Exclusion	SAR Test Exclusion
		(mm)	dBm	mW	Threshold	
BLE	2.480	5	-4.0	0.3981	0.1254<3.0	Yes
4.5 Simul	Itanoous T	ransmissio	n for SAP	Exclusion	CTATES	

Simultaneous Transmission for SAR Exclusion 4.5

N/A

5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D01v06

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