

TEST REPORT

Product Name: Trademark:	Smart Watch N/A	
Model Number:	SW/29, T48, T49, T12, E300, S2, S2P, S10, T40, T42, T41, T41S, T42S, T43, T45S, T60, T66, T11, T68, T69, T90, TV E80, E66, E10, E90, E98, E200, E400, E88pro, E88mini, F100, F12, F100, F18 M6, M5, M4S, X5	T33S, T30, T46S, T32S, T34S, N26, TW27, E86, E87, E88, E89, E500, E510, E600, E800, E900,
Prepared For:	Shenzhen Xiangmingda Technology Co	., Ltd.
Address:	8F, Block A, Building C4, No.3 Industria Huangbu Community, Hangcheng Stree	
Manufacturer:	Shenzhen Xiangmingda Technology Co	., Ltd.
Address:	8F, Block A, Building C4, No.3 Industria Huangbu Community, Hangcheng Stree	
Prepared By:	Shenzhen CTB Testing Technology Co.	, Ltd.
Address:	Floor 1&2, Building A, No. 26 of Xinhe F Xingiao Street, Baoan District, Shenzhe	
Sample Received Date:	Apr. 31, 2022	
Sample tested Date:	Apr. 31, 2022 to Jun. 08, 2022	
Issue Date:	Jun. 08, 2022	
Report No.:	CTB220608002REX	
Test Standards	ETSI EN 301 489-1 V2.2.3 (2019-11)	
	ETSI EN 301 489-17 V3.2.4(2020-09)	
Test Results	PASS O O O O	
Remark:	This is EMC test report.	
Compiled by:	Reviewed by:	Approved by:

Chen Zha

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Bin Mei / Director

Chen Zheng

Arron Liu

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(NOTE: N/A MEANS NOT APPLICABLE)	

1. VERSION

Report No.	Issue Date	Description	Approved	
CTB220608002REX	Jun. 8, 2022	Original	Valid	

2. TEST SUMMARY

The Product has been tested according to the following specifications:

	EMISSION					
Standard	Test Item	Test result				
EN 55032	Conducted emissions from the AC mains power ports	Pass				
EN 55032	Asymmetric mode conducted emissions	N/A ¹				
EN 55032	Conducted differential voltage emissions	N/A ²				
EN 55032	Radiated emissions	Pass				
EN 61000-3-2	Harmonic current emission(H)	Pass				
EN 61000-3-3	Voltage fluctuations & flicker(F)	Pass				

IMMUNITY				
Standard Test Item				
Electrostatic discharge (ESD)	Pass			
Continuous RF electromagnetic field disturbances(RS)	Pass			
Electrical fast transients/burst (EFT)	Pass			
Surges	Pass			
Radio frequency, common mode	Pass			
Voltage dips and interruptions (DIPS)	Pass			
	Test Item Electrostatic discharge (ESD) Continuous RF electromagnetic field disturbances(RS) Electrical fast transients/burst (EFT) Surges Radio frequency, common mode			

Remark:

1. Applicable to ports listed above and intended to connect to cables longer than 3 m.

2. The Product has no antenna port.

3. The Product belongs to Class A, and its power is less than 75W, so it deems to fulfil this standard without testing.

4. The EUT is powered by the DC battery nly and has no antenna port, the test item is not applicable.



3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Value (dB)
Conducted Emission (150KHz-30MHz)	3.2
Radiated Emission(30MHz ~1000MHz)	4.8
Radiated Emission(1GHz ~6GHz)	4.9



4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	SW/29, T48, T49, T12, E300, S2, S2P, S3, S5, S6, S6P, S6T, S7, S8, S9, S10, T40, T42, T41, T41S, T42S, T43, T33S, T30, T46S, T32S, T34S, T45S, T60, T66, T11, T68, T69, T90, TW26, TW27, E86, E87, E88, E89, E80, E66, E10, E90, E98, E200, E400, E500, E510, E600, E800, E900, E88pro, E88mini, F100, F12, F100, F18, F45, F60, F11, F12, F28, F80, M6, M5, M4S, X5
Model Description:	All the model are the same circuit and RF module, only for model name. Test sample model: SW/29
Bluetooth Version:	Bluetooth V5.0
Hardware Version:	V1.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Software Version:	V1.0
Operation Frequency: Max. RF output power: Type of Modulation:	Bluetooth: 2402-2480MHz Bluetooth: -1.48dBm Bluetooth: GFSK
Antenna installation: Antenna Gain: Ratings:	Internal antenna 1.0dBi DC 5V charging from adapter Battery DC 3.7V

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

It	em	Equipment	Mfr/Brand	Model/TypeNo.	SeriesNo.	Note
2	Sec.	AC adapter	SHENZHEN ENGINE ELECTRONIC CO.,LTD	EE-0501000E	N/A	AE

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



4.4 Test Mode

Test item	Test Mode	Test Voltage
Conducted emissions from the AC mains power ports (150KHz-30MHz) Class B	Charging	AC 230V/50Hz
	Charging	AC 230V/50Hz
Radiated emissions(30MHz-6GHz)Class B	BT Linking	DC 3.7V
Electrostatic discharge (ESD)	Charging	AC 230V/50Hz
Contact Discharge: ±2,4kV HCP & VCP: ±2,4kV	BT Linking	DC 3.7V
Continuous RF electromagnetic field	Charging	AC 230V/50Hz
disturbances(RS) ⊠80MHz-6000MHz , 3V/m,80%	BT Linking	DC 3.7V
All test mode were tested and passed, only Co	onducted Emissions	, Radiated Emissions

Harmonic Current Emissions and Voltage Fluctuations and Flicker shows (¹)sthe worst case mode which were recorded in this report.

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

СТВ

All measurement facilities used to collect the measurement data are located at Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Street, Baoan District, Shenzhen China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

		Continuous d	isturbance		Serial No. Calibrated until		
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until		
1	AMN	ROHDE&SCHWARZ	ESH3-Z5	831551852	2022.08.05		
2	Pulse limiter	ROHDE&SCHWARZ	ESH3Z2	357881052	2022.08.05		
3	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCS30	834115/006	2022.08.05		
4	Coaxial cable	ZDECL	Z302S	18091904	2022.08.05		
5	AAN	Schwarzbeck	NTFM8158	183	2022.08.05		
6	Communication test set	Agilent	E5515C	MY50102567	2022.08.16		
7	Communication test set	R&S	CMW500	108058	2022.08.05		
8	EZ-EMC	Frad	EMC-con3A1.1	010	010		

5.2 Test Instrument Used

	Radiated emission					
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until	
1	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	1911	2022.08.08	
2	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	869	2022.08.05	
3	Amplifier	Agilent	8449B	3008A01838	2022.08.05	
4	Amplifier	A HP	8447E	2945A02747	2022.08.05	
5	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESPI7	100362	2022.08.05	
6	Coaxial cable	ETS	RFC-SNS-100- NMS-80 NI		2022.08.05	
7	Coaxial cable	ETS	RFC-SNS-100- NMS-20 NI	& I&	2022.08.05	
8	Coaxial cable	ETS	RFC-SNS-100- SMS-20 NI	0 10	2022.08.05	
9	Coaxial cable	ETS	RFC-NNS-100 -NMS-300 NI		2022.08.05	
10	Communication test set	Agilent	E5515C	MY50102567	2022.08.16	
11	Communication test set	R&S	CMW500	108058	2022.08.05	
12	EZ-EMC	Frad	EMC-con3A1.1			



Shenzhen CTB Testing Technology Co., Ltd. Rep

Report No.: CTB220608002REX

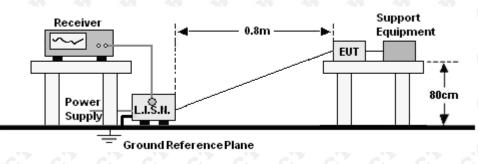
Electrostatic discharges											
No.	Equipment	Serial No.	Calibrated until								
1	ESD Simulator	TESTQ	NSG437	329	2022.08.05						
2	Communication test set	Agilent	E5515C	MY50102567	2022.08.16						
3	Communication test set	R&S	CMW500	108058	2022.08.05						

	Radio frequency electromagnetic field										
No.	Equipment	Manufacturer	Type No.	Serial No.	Calibrated until						
1	Signal Generator	Agilent	N5181A	2106070101	2022.08.05						
2	Stacked Double LogPer. Antenna	SKET	STLP 9129 Plus	2106070106	2022.08.05						
3	Switch Controller	SKET	RFSU-DC18G -4C	2106070105	2022.08.05						
4	RF Power Meter	Agilent	U2001	2106070102	2022.08.16						
5	E-Field Probe	Narda	EP-601	2106070107	2022.08.05						
6	Power Amplifier	SKET	HAP-80M01G- 250W	2106070103	2022.08.05						
7	Power Amplifier	SKET	HAP-01G 06G-75W	2106070104	2022.08.05						
8	Audio Analysis	R&S	UPV	2106070116	2022.08.16						
9	Audio Output Matching Network	SKET	RCO Network	2106070117	2022.08.16						
10	Communication test set	Agilent	E5515C	MY50102567	2022.08.16						
11	Communication test set	R&S	CMW500	108058	2022.08.05						
12	Test Sofiware	SKET		\$1.\$	A 10 2						

6. CONDUCTED EMISSIONS

СТВ

6.1 Block Diagram Of Test Setup



6.2 Limit

Limits for Conducted emissions at the mains ports of Class B MME

Frequency range	Limits dB(μV)				
(MHz)	Quasi-peak	Average			
0,15 to 0,50	66 to 56*	56 to 46*			
0,50 to 5	56	46			
5 to 30	60	50			

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

a. The Product was placed on a nonconductive table 0.8m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

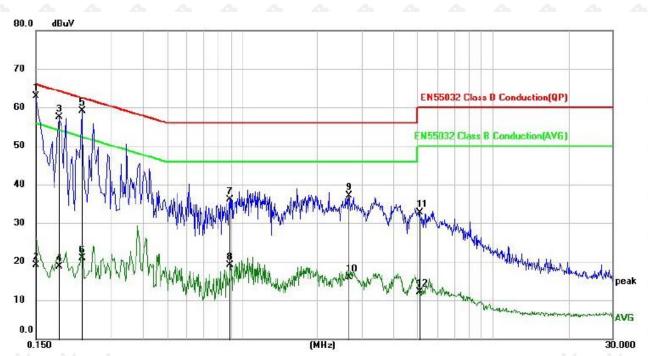
b. The RBW of the receiver was set at 9 kHz in150 kHz ~30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



6.4 Test Result

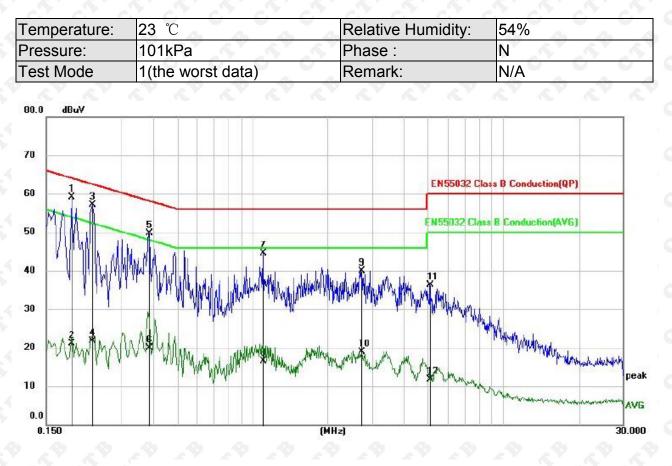
Temperature:	23 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	Lo o o o
Test Mode	1(the worst data)	Remark:	N/A



No. N	lk. Freq	Readin	g Correct Factor		- Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.15	00 52.18	10.72	62.90	66.00	-3.10	QP	
2	0.15	00 8.32	10.72	19.04	56.00	-36.96	AVG	
3	0.18	60 46.74	10.70	57.44	64.21	-6.77	QP	
4	0.18	60 8.03	10.70	18.73	54.21	-35.48	AVG	
5	0.23	00 48.35	10.67	59.02	62.45	-3.43	QP	
6	0.23	00 10.25	10.67	20.92	52.45	-31.53	AVG	
7	0.89	00 25.47	10.60	36.07	56.00	-19.93	QP	
8	0.89	00 8.42	10.60	19.02	46.00	-26.98	AVG	
9	2.65	40 26.41	10.63	37.04	56.00	-18.96	QP	
10	2.65	40 5.24	10.63	15.87	46.00	-30.13	AVG	
11	5.09	80 22.14	10.65	32.79	60.00	-27.21	QP	
12	5.09	80 1.51	10.65	12.16	50.00	-37.84	AVG	

Remark: Result=Reading +Factor Over Limit=Result –Limit





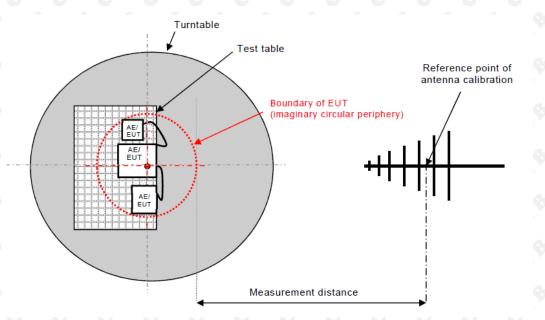
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1900	48.34	10.70	59.04	64.04	-5.00	QP	
2		0.1900	10.34	10.70	21.04	54.04	-33.00	AVG	
3		0.2300	46.53	10.67	57.20	62.45	-5.25	QP	
4		0.2300	10.95	10.67	21.62	52.45	-30.83	AVG	
5		0.3860	39.13	10.59	49.72	58.15	-8.43	QP	
6		0.3860	9.40	10.59	19.99	48.15	-28.16	AVG	
7		1.1019	33.96	10.62	44.58	56.00	-11.42	QP	
8		1.1019	5.83	10.62	16.45	46.00	-29.55	AVG	
9		2.7139	29.31	10.63	39.94	56.00	-16.06	QP	
10		2.7139	8.29	10.63	18.92	46.00	-27.08	AVG	
11		5.1100	25.58	10.65	36.23	60.00	-23.77	QP	
12		5.1100	1.01	10.65	11.66	50.00	-38.34	AVG	
						100			

Remark: Result=Reading +Factor Over Limit=Result –Limit

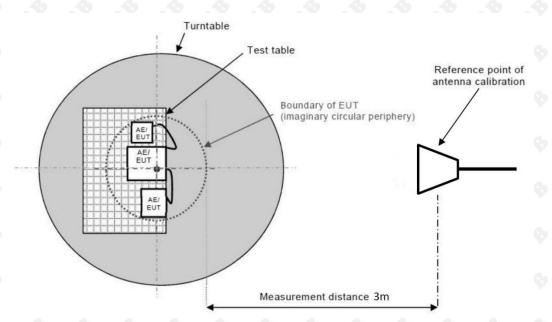


7. RADIATEDEMISSIONS TEST

7.1 Block Diagram Of Test Setup30MHz ~ 1GHz:

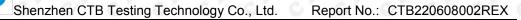


Above 1GHz:



7.2 Limits

Limits for radiated disturbance of Class B MME



Frequency (MHz)	Quasi-peak limits at 3m dB(µV/m)					
30-230	2 C C C 40 C C C					
230-1000	47					

Frequency (GHz)	limit above 1G at 3m dB(μV/m)				
	Average	peak			
1-3	50	70			
3-6	54	74			

Note: The lower limit shall apply at the transition frequencies.

7.3 Test Procedure

СТН

30MHz ~ 1GHz:

a. The Product was placed on the nonconductive turntable 0.8mabove the ground in a semi anechoic chamber.

b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.

c. For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

Above 1GHz:

a. The Product was placed on the non-conductive turntable0.8m above the ground in a full anechoic chamber..

b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.

c. For each frequency whose maximum record was higher or close to limit, measure its AV value: rotate the turntable from 0 to 360 degrees to find the degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to AV value and specified bandwidth with Maximum Hold Mode, and record the maximum value.

7.4 Test Results

Below 1GHz

Femperature	: 23 ℃	4 4	Relative Humidity: 54%		
Pressure:	101kPa	A	Polarizatio	Polarization : Horizontal	
Fest Mode	1(the wo	rst data)	Remark:	N	/A
80.0 dBuV/m	~~ ~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	5° 5° 5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	_5° _5° _5
70		er er er			
60					
50			EN	55032 3m Class B Ra	ndiiation (QP)
40					Margin -6 dB
30				mat manual	man per
20	mmm z	ymmer	Mun muntur	mann	
10					
0.0					
30.000	60	100	(MHz)	50	0 1000.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		42.6000	27.87	-5.37	22.50	40.00	-17.50	QP
2		75.3142	27.81	-8.90	18.91	40.00	-21.09	QP
3		140.3421	27.50	-5.44	22.06	40.00	-17.94	QP
4		229.2931	27.95	-5.95	22.00	40.00	-18.00	QP
5		334.2722	27.23	-4.01	23.22	47.00	-23.78	QP
6	*	782.3453	27.40	5.67	33.07	47.00	-13.93	QP

Remark: Result=Reading +Factor Over Limit=Result -Limit



empera	ture:	23 ℃	a _ A	A A	Relative Hur	nidity:	54%		
ressure	:	101kPa	a	SY .SY	Polarization	:	Vertical		
est Mod	de	1(the v	vorst data)	A	Remark:		N/A		
0.0 dBu ¹	V/m					1			
0									
0	-								
0	_				EN55	032 3m Class	B Radiiation (QI	P)	
,							Mar	gin -6 dB	
-							254	6 mm	
m.	um	mundun	when the	3 mm	in kinner	mm	S. m. M		
.0 30.000		60	100	(MHz)			500	100	
			Reading	Correct	Measure-				
No. I	٨k.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	
1	3	4.8212	30.58	-6.52	24.06	40.00	-15.94	QP	
2	10	2.3597	34.41	-8.49	25.92	40.00	-14.08	QP	
3	11	9.8556	32.66	-6.91	25.75	40.00	-14.25	QP	
4	22	3.3415	27.88	-6.42	21.46	40.00	-18.54	QP	
5	46	2.3455	27.12	-0.19	26.93	47.00	-20.07	QP	
6 '	* 83	9.1818	27.96	6.10	34.06	47.00	-12.94	QP	

Remark: Result=Reading +Factor Over Limit=Result -Limit



A	bove 1GHz			
-	Temperature:	23 °C	Relative Humidity:	54%
	Pressure:	101kPa	Polarization :	Horizontal
	Test Mode	1(the worst data)	Remark:	N/A

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1967.90	45.92	1.43	47.35	70.00	-22.65	peak
2	1967.72	27.62	1.43	29.05	50.00	-20.95	AVG
3	3774.92	43.81	5.76	49.57	74.00	-24.43	peak
4	3777.28	26.55	5.76	32.30	54.00	-21.70	AVG
5	4839.30	42.52	9.60	52.12	74.00	-21.88	peak
6	4843.54	24.84	9.60	34.43	54.00	-19.57	AVG

Remark: Result=Reading +Factor Over Limit=Result -Limit

Temperature:	23 ℃	Relative Humidity:	54%	\$
Pressure:	101kPa	Polarization :	Vertical	
Test Mode	1(the worst data)	Remark:	N/A	N.

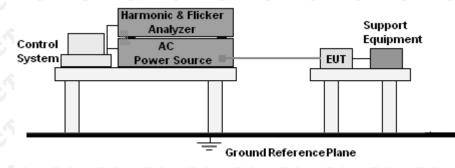
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1995.06	47.31	1.51	48.81	70.00	-21.19	peak
2	1994.31	29.85	1.51	31.36	50.00	-18.64	AVG
3	3807.35	47.02	5.88	52.90	74.00	-21.10	peak
4	3810.06	28.99	5.88	34.87	54.00	-19.13	AVG
5	4771.94	45.31	9.36	54.67	74.00	-19.33	peak
6	4770.61	27.52	9.36	36.87	54.00	-17.13	AVG

Remark: Result=Reading +Factor Over Limit=Result -Limit



8. HARMONIC CURRENT EMISSION(H)

8.1 Block Diagram of Test Setup



8.2 Limit

EN IEC 61000-3-2:2019 Clause 7.

8.3 Test Procedure

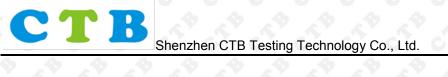
a. The Product was placed on the top of a non-conductive table above the ground and operated to produce the maximum harmonic components under normal operating conditions for each successive harmonic component in turn.

b. The correspondent test program of test instrument to measure the current harmonics emanated from Product was chosen. The measure time shall be not less than the time necessary for the Product to be exercised.8.4

Test Results

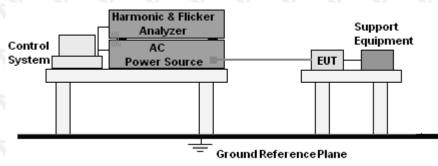
Temperature:	23 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Mode	1(the worst data)
Remark:	N/A	Test results	N/A

Remark: No limits apply for equipment with an active input power up to and including 75W.



9. VOLTAGE FLUCTUATIONS & FLICKER(F)

Block Diagram of Test Setup 9.1



9.2 Limit

EN 61000-3-3:2013/A1:2019 Clause 5.

Test Procedure 9.3

a. The Product was placed on the top of a non-conductive table above the ground and operated to produce the most unfavorable sequence of voltage changes under normal operating conditions.

b. During the flick test, the measure time shall include that part of whole operation cycle in which the Product produce the most unfavorable sequence of voltage changes. The observation period for short-term flicker indicator is 10 minutes and the observation period for long-term flicker indicator is 2 hours.

9.4 Test Results

þ	Temperature:	23 °C	Relative Humidity:	54%
	Pressure:	101kPa	Test Mode	1(the worst data)
5	Remark:	N/A	Test results	Pass

Remark: Due to the maximum r.m.s input current (including inrush current) does not exceed 20A, and the supply current after inrush in within a variation band of 1.5A, it's not applicable to test the manual switching.

Since the EUT is working in steady state with very low supply current, it will not cause any fluctuations and flicker on the supply system. Considering this, no flicker and voltage fluctuation test had been performed on the EUT, and the EUT can be deemed to comply with the standard accordingly without testing.



Product Standard	ETSI EN 301 489-1
The performance crite	eria are used to take a decision on whether a radio equipment
passes or fails immur	
For the purpose of the	e present document two categories of performance criteria apply:
 Performance criteria 	for continuous phenomena.
	for transient phenomena.
NOTE: Normally, the	performance criteria depends upon the type of radio equipment
and/or its intended ap	plication. Thus, the present document only contains general
performance criteria c	commonly used for the assessment of radio equipment.
	During the test, the equipment shall:
	•continue to operate as intended;
Performance criteria for continuous	•not unintentionally transmit;
phenomena	 not unintentionally change its operating state;
	•not unintentionally change critical stored data.
	For all ports and transient phenomena with the exception described below, the following applies: •The application of the transient phenomena shall not result in a
	change of the mode of operation (e.g. unintended transmission) or the loss of critical stored data.
	•After application of the transient phenomena, the equipment shall operate as intended.
Performance criteria	For surges applied to symmetrically operated wired network ports intended to be connected directly to outdoor lines the following criteria applies:
for transient	•For products with only one symmetrical port intended for
phenomena	connection to outdoor lines, loss of function is allowed, provided the function is self-recoverable, or can be otherwise restored. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.
	•For products with more than one symmetrical port intended for connection to outdoor lines, loss of function on the port under test is allowed, provided the function is self-recoverable. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

СТ

B



According To EN 301489 -17standard, The General Performance Criteria As Following:

General performance criteria

The performance criteria are:

- performance criteria A for immunity tests with phenomena of a continuous nature;
- · performance criteria B for immunity tests with phenomena of a transient nature;
- performance criteria C for immunity tests with power interruptions exceeding a certain time.

The equipment shall meet the minimum performance criteria as specified in the following clauses.

 Table 1: Performance criteria

Criteria	During the test	After test (i.e. as a result of the application of the test)
A	Shall operate as intended. (see note). Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance Shall be no loss of function. Shall be no loss of critical stored data.
B	May be loss of function.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no loss of critical stored data.
с	May be loss of function.	Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no loss of critical stored data.

NOTE: Operate as intended during the test allows a level of degradation in accordance with clause 6.2.2.

Minimum performance level

For equipment that supports a PER or FER, the minimum performance level shall be a PER or FER less than or equal to10 %.

For equipment that does not support a PER or a FER, the minimum performance level shall be no loss of the wirelesstransmission function needed for the intended use of the equipment.



Performance criteria for Continuous phenomena applied toTransmitters (CT)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage Theperformance criteria A shall apply.

Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does notoccur. In systems using acknowledgement signals, it is recognized that an ACKnowledgement (ACK) or NotACKnowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission

resulting from the application of the test is correctly interpreted.

Performance criteria for Transient phenomena applied toTransmitters (TT)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 msduration, for which performance criteria C shall apply.

Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does notoccur. In systems using acknowledgement signals, it is recognized that an acknowledgement (ACK) ornot-acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmissionresulting from the application of the test is correctly interpreted.

Performance criteria for Continuous phenomena applied toReceivers (CR)

The performance criteria A shall apply.

Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test.Insystems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and stepsshould be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

Performance criteria for Transient phenomena applied toReceivers (TR)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 msdurationfor which performance criteria C shall apply. Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. Insystems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and stepsshould be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.



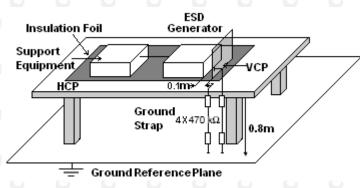
ELECTROSTATIC DISCHARGE (ESD) 11.

11.1 Test Specification

Test Port Discharge Impedance Discharge Mode **Discharge Period**

- Enclosure port
- 330 ohm / 150 pF
- Single Discharge
- - one second between each discharge

Block Diagram of Test Setup 11.2



11.3 Test Procedure

a. Electrostatic discharges were applied only to those points and surfaces of theProduct that are accessible to users during normal operation.

b. The test was performed with at least ten single discharges on the pre-selected points in the most sensitive polarity.

c. The time interval between two successive single discharges was at least 1second.

d. The ESD generator was held perpendicularly to the surface to which the discharge was applied and the return cable was at least 0.2 meters from the Product.

e. Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conductingsubstrate.

f. Air discharges were applied with the round discharge tip of the dischargeelectrode approaching the Product as fast as possible (without causing mechanicaldamage) to touch the Product. After each discharge, the ESD generator wasremoved from the Product and re-triggered for a new single discharge. The testwas repeated until all discharges were complete.

g. At least ten single discharges (in the most sensitive polarity) were applied to the Horizontal Coupling Plane at points on each side of the Product. The ESDgenerator was positioned vertically at a distance of 0.1 meters from the Productwith the discharge electrode touching the HCP.



h. At least ten single discharges (in the most sensitive polarity) were applied to thecenter of one vertical edge of the Vertical Coupling Plane in sufficiently different positions that the four faces of the Product were completely illuminated. The VCP(dimensions 0.5m x 0.5m) was placed vertically to and 0.1 meters from the Product.

11.4 Test Results

Temperature :	23 °C	Relative Humidity :	54%
Pressure :	101kPa	Test Mode :	Mode1, Mode2

Discharg e Method	Discharge Position	Voltage (±kV)	Min. No. of Discharge per polarity (Each Point)	PerformanceCriterion
	Conductive Surfaces	4	10	A
Contact Discharge	Indirect Discharge HCP	4	10	A
	Indirect Discharge VCP	4	10	A
	Slots, Apertures, and Insulating Surfaces	8	10	A
B: During the	performance degradation d test, the EUT shut down, a test, the EUT shut down, a	fter the test, it		

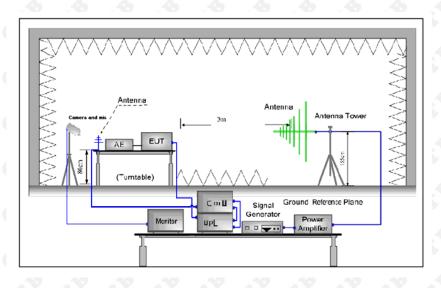


12. CONTINUOUS RF ELECTROMAGNETIC FIELD DISTURBANCES(RS)

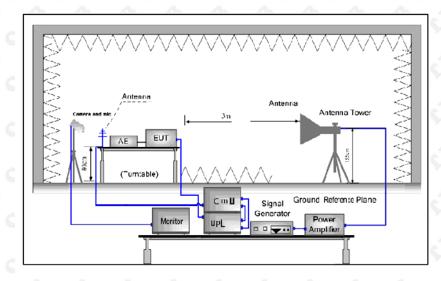
- 12.1 Test Specification
 - Test Port Step Size Modulation Dwell Time Polarization

- Enclosure port 1%
- 1kHz, 80% AM
- 1 second
- Horizontal & Vertical
- 12.2 Block Diagram of Test Setup

Below 1GHz:



Above 1GHz:



12.3 TestProcedure

СТВ

a. The testing was performed in a fully-anechoic chamber. The transmit antenna was located at a distance of 3 meters from the Product.

b. The frequency range is swept from 80MHz to 6000MHz, with the signal 80% amplitude modulated with a 1 kHz sine wave, and the step size was 1%.

c. The dwell time at each frequency shall not be less than the time necessary for the EUT to be exercised and to be able to respond, but should not exceed 5 s at each of the frequencies during the scan.

d. The test was performed with the Product exposed to both vertically and horizontally polarized fields on each of the four sides.

e. For Broadcast reception function: Group 2 not apply in this test.

12.4 Test Results

Temperature :	23 ℃	Relative Humidity :	54%
Pressure :	101kPa	Test Mode :	Mode1, Mode2

Frequency	Position	Field Strength (V/m)	PerformanceCriterior
00.0000411-	Front, Right,		
80 - 6000MHz	Back, Left		

Note: A: No performance degradation during test.



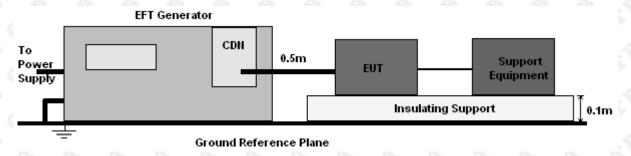
13. ELECTRICAL FAST TRANSIENTS/BURST (EFT)

13.1 Test Specification

Test Port	: input a.c. power port
Impulse Frequency	: 5 kHz
Impulse Wave-shape	C: 5/50 ns
Burst Duration	: 15 ms
Burst Period	: 300 ms
Test Duration	: 2 minutes per polarity

13.2 Block Diagram of EUT Test Setup

For input a.c.power port:



13.3 Test Procedure

a. The Product and support units were located on a non-conductive table above ground reference plane.

b. A 0.5m-long power cord was attached to Product during the test.



13.4 Test Results

N/A

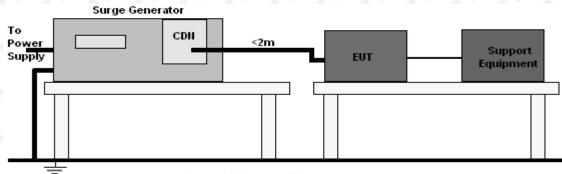


14. SURGES IMMUNITY TEST

14.1 Test Specification

Test Port	: input a.c. power port
Wave-Shape	: Open Circuit Voltage - 1.2 / 50 us
2 2 2 2 2 2 X	Short Circuit Current - 8 / 20 us
Pulse Repetition Rate	: 1 pulse / min.
Phase Angle	• : 0° / 90° / 180° / 270°
Test Events	: 5 pulses (positive & negative) for each polarity

14.2 Block Diagram of EUT Test Setup



Ground Reference Plane

14.3 Test Procedure

a. The surge is to be applied to the Product power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave.

b. The power cord between the Product and the coupling/decoupling networks shall be 2 meters in length (or shorter). Interconnection line between the Product and the coupling/decoupling networks shall be 2 meters in length (or shorter).

14.4 Test Result

N/A



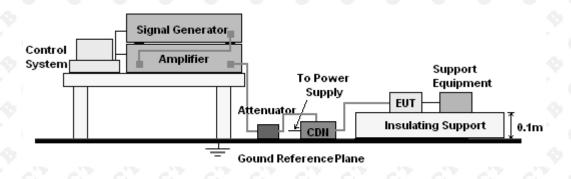
15. CONTINUOUS INDUCED RF DISTURBANCES (CS)

15.1 Test Specification

: input a.c.power port
: 1%
🔷 : 1kHz, 80% AM
: 1 second

15.2 Block Diagram of EUT Test Setup

For input a.c. power port:



15.3 Test Procedure

For input a.c.power port:

a. The Product and support units were located at a ground reference plane with the interposition of a 0.1 m thickness insulating support and the CDN was located on GRP directly.

b. The frequency range is swept from 150 kHz to 10MHz, 10MHz to 30MHz, 30MHz to 80MHz with the signal 80% amplitude modulated with a 1 kHz sine wave, and the step size was 1% of fundamental.

c. The dwell time at each frequency shall be not less than the time necessary for the Product to be able to respond.

15.4 Test Result



16. VOLTAGE DIPS AND INTERRUPTIONS (DIPS)

16.1 Test Specification

Test Port Phase Angle Test cycle

input a.c. power port
0°, 180°
3 times

16.2 Block Diagram of EUT Test Setup

 Voltage Dips Generator	AC Power Line	EUT	

16.3 Test Procedure

- a. The Product and support units were located on a non-conductive table above ground floor.
- b. Set the parameter of tests and then perform the test software of test simulator.
- c. Conditions changes to occur at 0 degree crossover point of the voltage waveform.

16.4 Test Result

N/A



17. EUT PHOTOGRAPHS

External Photos EUT Photo 1



EUT Photo 3



EUT Photo 5



Internal photos EUT Photo 1

EUT Photo 2

EUT Photo 3

EUT Photo 4



EUT TEST SETUP PHOTOGRAPHS 18.

Conducted emissions



Radiated emissions below 1G





Shenzhen CTB Testing Technology Co., Ltd. Report No.: CTB220608002REX

ESD



RS



**** END OF REPORT ****



CERTIFICATE OF CONFORMITY

EU - The Radio Equipment Directive (RED) -No. : CTB220608002REX-ZS

Applicant	:	Shenzhen Xiangmingda Technology Co., Ltd.
Address	:	8F, Block A, Building C4, No.3 Industrial Park (Tianlong Industrial Zone), Huangbu Community, Hangcheng Street, Baoan District, Shenzhen
Manufacturer	:	Shenzhen Xiangmingda Technology Co., Ltd.
Address	÷	8F, Block A, Building C4, No.3 Industrial Park (Tianlong Industrial Zone), Huangbu Community, Hangcheng Street, Baoan District, Shenzhen
Product	14	Smart Watch
Trade Name	:	N/A
Model(s)		SW/29, T48, T49, T12, E300, S2, S2P, S3, S5, S6, S6P, S6T, S7, S8, S9, S10, T40, T42, T41, T41S, T42S, T43, T33S, T30, T46S, T32S, T34S, T45S, T60, T66, T11, T68, T69, T90, TW26, TW27, E86, E87, E88, E89, E80, E66, E10, E90, E98, E200, E400, E500, E510, E600, E800, E900, E88pro, E88mini, F100, F12, F100, F18, F45, F60, F11, F12, F28, F80, M6, M5, M4S, X5

The tests that base on the above designated product Complies with the essential requirements of Directive 2014/53/EU relating to Electrical Equipment designed for use within Radio and telecommunications terminal equipment.

The test results apply only to the particular sample tested and the applicative tests carried out. The CE markings as shown below can be affixed on product after manufacturer carry out all stipulation activities integrally of above mentioned Regulation (Directive) and preparation of necessary technical documentation as well as the conformity declaration.

This statement is based on a single evaluation of sample of above mentioned product. It does not imply an assessment of the whole production process.

Other relevant Regulation (Directive) requirement have to be observed.







Shenzhen CTB Testing Technology Co., Ltd

Add: Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China.

Web: http://www.ctb-lab.net Tel: 4008-707-283 Email: ctb@ctb-lab.net



CERTIFICATE OF CONFORMITY

EU - The Radio Equipment Directive (RED) -

No.: CTB220608002REX-ZS

Category	Test Standards	Test Report No.	
Health and	EN IEC 62368-1:2020+A11:2020	CTB220622011RSX	
Safety (Article 3.1a)	EN 62479:2010 EN 50663:2017	CTB220607005RHX	
EMC (Article 3.1b)	ETSI EN 301 489-1 V2.2.3 (2019-11)	CTB220608002REX	
	ETSI EN 301 489-17 V3.2.4(2020-09)	GIDZZU000002REX	
Radio Aspects (Article 3.2)	ETSI EN 300 328 V2.2.2 (2019-07)	CTB220606026RFX CTB220609003RFX	

The tests that base on the above designated product Complies with the essential requirements of Directive 2014/53/EU relating to Electrical Equipment designed for use within Radio and telecommunications terminal equipment.

The test results apply only to the particular sample tested and the applicative tests carried out. The CE markings as shown below can be affixed on product after manufacturer carry out all stipulation activities integrally of above mentioned Regulation (Directive) and preparation of necessary technical documentation as well as the conformity declaration.

This statement is based on a single evaluation of sample of above mentioned product. It does not imply an assessment of the whole production process.

Other relevant Regulation (Directive) requirement have to be observed.

(E





Shenzhen CTB Testing Technology Co., Ltd

Add: Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China.

C



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REPORT No .: CTB220623010CX

Applicant:	Shenzhen Xiangmingda Technology Co., Ltd.		
Address:	8F, Block A, Building C4, No.3 Industrial Park (Tianlong Industrial Zone), Huangbu Community, Hangcheng Street, Baoan District, Shenzhen		
Manufacturer:	Shenzhen Xiangmingda Technology Co., Ltd.		
Address:	8F, Block A, Building C4, No.3 Industrial Park (Tianlong Industrial Zone), Huangbu Community, Hangcheng Street, Baoan District, Shenzhen		
The following s	amples were submitted and identified on behalf of the clients as:		
Sample name:	Smart Watch		
Brand:			
Model(s):	See next pages		
Batch No.:	9 LA		
Sample receive	d date: June 10,2022		
Testing period:	June 10,2022 to June 23,2022		
Test Method: P	lease refer to next page(s).		
Test Result: Ple	ease refer to next page(s).		
*****	*****		

Result Summary :

Test Requested	Conclusion
European Directive 2011/65/EU and amendment (EU) 2015/863 on the restriction of the use of	PASS
certain hazardous substances in electrical and electronic equipment	C FASS

Tested By:	Check By:	Approve ByxING TECHNO
Bow lu	Speir Weng	CTB S

Date: June 23, 2022

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

Shenzhen CTB Testing Technology Co., Ltd.

Add:Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Street, Baoan District, Shenzhen, China Tel: 4008-707-283 Web: http://www.ctb-lab.net Email: ctb@ctb-lab.net



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REPORT No .: CTB220623010CX

Series models as below (page 2)

Model(s)	с С	SW/29, T48, T49,T12, E300,S2, S2P, S3, S5,S6,S6P, S6T, S7, S8, S9, S10, T40, T42, T41, T41S, T42S,T43, T33S,T30,T46S, T32S, T34S, T45S, T60, T66, T11, T68, T69, T90, TW26, TW27, E86, E87, E88, E89, E80,E66, E10, E90, E98, E200, E400, E500, E510, E600, E800, E900, E88pro,E88mini, F100, F12,F100,F18, F45,F60,F11,F12, F28, F80, M6, M5, M4S, X5
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Test Method:

A. Screening test by XRF spectroscopy

XRF screening limits for regulated elements according to IEC 62321-3-1:2013

Element	Screening lim	MDL		
	Polymers and metals	Composite material	Polymers	Other material
Pb	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL□</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x>	10mg/kg	50mg/kg
Cd	BL≤(70-3σ) <x <(130+3σ)<br="">≤OL</x>	LOD≤(50-3σ) <x <(150+3σ)<br="">≤OL□</x>	10mg/kg	50mg/kg
Hg	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL□</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL□</x>	10mg/kg	50mg/kg
Cr	BL≤(700-3σ)< X	BL≤(500-3σ)< X	10mg/kg	50mg/kg
Br	BL≤(300-3σ)< X (non-metal only)	BL≤(250-3σ)< X	10mg/kg	50mg/kg

B. Chemical Test

Test Item(s)	Test Method □	Analysis Equipment(s)	MDL	Limit
Lead (Pb)	IEC 62321-5:2013	ICP-OES	10mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	10mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	10mg/kg	1000mg/kg
Hexavalent Chromium Cr(VI)	IEC 62321-7-1:2015 & IEC 62321-7-2:2017	UV-VIS	10mg/kg	1000mg/kg
Polybrominated Biphenyls (PBBs)□	IEC 62321-6:2015	GC-MS	10mg/kg	1000mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	10mg/kg	1000mg/kg
Dibutyl Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg
Benzylbutyl Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg
Bis-(2-ethylhexyl)Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg
Diisobutyl phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg

Shenzhen CTB Testing Technology Co., Ltd.Add:Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Street, Baoan District, Shenzhen, ChinaTel: 4008-707-283Web: http://www.ctb-lab.netEmail: ctb@ctb-lab.net



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REPORT No .: CTB220623010CX

Sample No.	Description
o 1 o	Black glass (display)
2	Rose gold plated metal frame
3	White plastic (display)
4	Transparent plastic (display)
5	Black plastic (display)
6	Black plastic case (dial)
7 0	Black PCB
8	Yellow plastic film
9	Silver magnet
10	Silver metal screws

Note: test samples were specified by applicant.



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REPORT No .: CTB220623010CX

Test Result(s):

Cr.	Cr'	XRF screening Result Chemical confirm Result	Chemical confirm Result	<u>ດົ່ດົ່</u> ດ				
No.	Pb Cd Hg C	Cr	Br	(mg/kg)	Remark	Conclusion		
01	BL	BL	BL	BL	BL	\$ \$* \$ \$	<u></u> _	PASS
2	BL	BL	BL	BL	N/A		<u></u>	PASS
3	BL	BL	BL	BL	BL	ర్ ర్ ర్ ర్ ర	ી હે લ	PASS
4	BL	BL	BL	BL	BL	5° 5° -5° -5°	5 - 5 - C	PASS
5	BL	BL	BL	BL	BL	A 2 - 2 2	20-20	PASS
6	BL	BL	BL	BL	BL			PASS
7	BL	BL	BL	BL	BL		ి చి ర	PASS
8	BL	BL	BL	BL	BL	AT TT TT	A CAR	PASS
9	BL	BL	BL	BL	N/A	x* x*x* x*	1	PASS
10	BL	BL	BL	BL	N/A			PASS

Shenzhen CTB Testing Technology Co., Ltd. Add:Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Street, Baoan District, Shenzhen, China Tel: 4008-707-283 Web: http://www.ctb-lab.net Email: ctb@ctb-lab.net



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REPORT No .: CTB220623010CX

Test Item(s)	Dibutyl Phthalate (DBP) (mg/kg)	Phthalate (BBP) Phthalate (DEHP		Diisobutyl phthalate(DIBP) (mg/kg)	0 . C
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	Conclusion
Limit	1000	1000	1000	1000	
No.	Result (mg/kg)				
3+4+5	N.D	N.D	N.D	N.D	PASS
6	N.D	N.D	N.D	N.D	PASS
6 8 6	N.D C	N.D	N.D C	N.D C	PASS

Remark:

- 1. BL = below the limit
- 2. OL = over the limit
- 3. X = inconclusive, chemical confirm test is needed
- 4. NA = not applicable
- 5. mg/kg = milligram per kilogram = ppm
- 6. N.D = not detected
- 7. Negative = The Cr⁶⁺ concentration is below the limit of quantification. The coating is considered a non- Cr⁶⁺ based coating.
- Positive = The Cr⁶⁺ concentration is above the limit of quantification and the statistical margin of error, The sample coating is considered to contain Cr⁶⁺.
- 9. The limit for composite test should be divided by the mixed number.

Note:

- 1. When perform screening tests, it is the result on total Br while test item on restricted substances is PBBs/PBDEs, it is the result on total Cr while test item on restricted substances is Cr⁶⁺.
- Pb, Cd, Hg, Cr and Br results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC-MS (for PBBs, PBDEs) is needed to be performed, if the concentration falls into the inconclusive area according to IEC 62321-3-1:2013.
- 3. For the XRF screening test for RoHS elements, the reading may be different to the actual content in the sample be of non-uniformity composition.

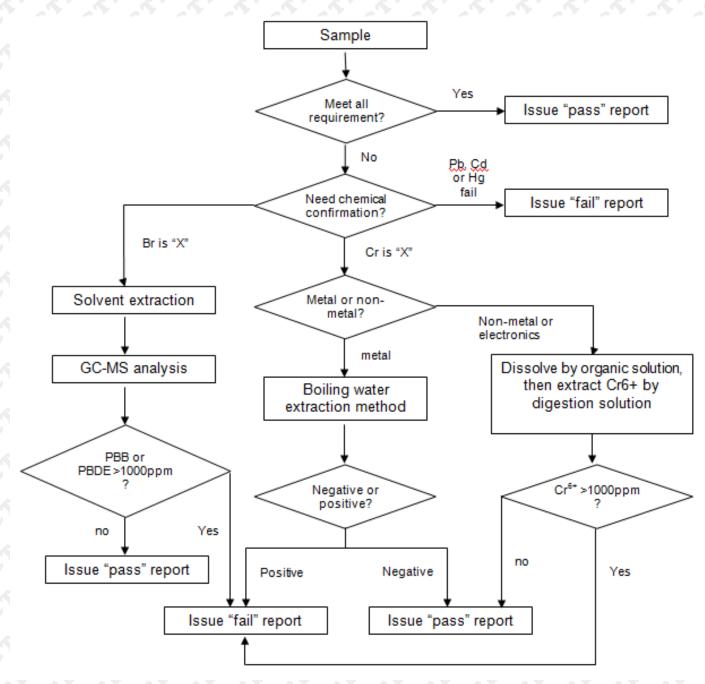


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Test flow chart

1. Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs



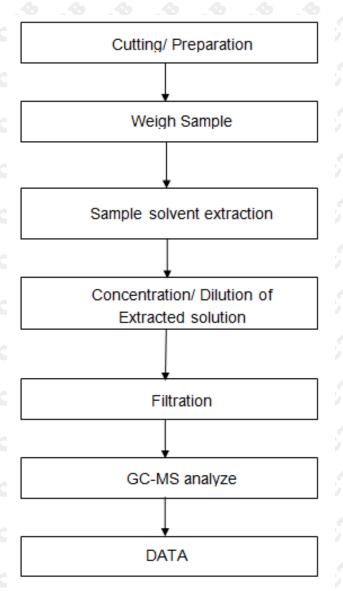
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2. Phthalate test flow chart



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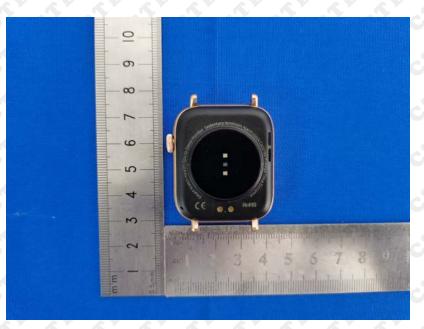


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Photo documentation





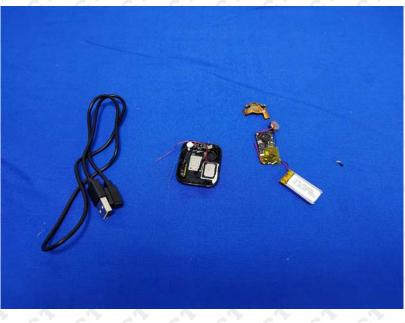
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*** End of Report ***

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ERTIFICATE



CERTIFICATE OF CONFORMITY

EU - Restriction of the use of certain hazardous substances (RoHS) - No. CTB220623010CX -ZS

Applicant	:	Shenzhen Xiangmingda Technology Co., Ltd.
Address	1	8F, Block A, Building C4, No.3 Industrial Park (Tianlong Industrial
	-	Zone), Huangbu Community, Hangcheng Street, Baoan District,
1		Shenzhen
Manufacturer	:	Shenzhen Xiangmingda Technology Co., Ltd.
Address	:	8F, Block A, Building C4, No.3 Industrial Park (Tianlong Industrial
		Zone), Huangbu Community, Hangcheng Street, Baoan District,
		Shenzhen
Product	:	Smart Watch
Trade mark	:	1
Model(s)	:	See page 2
Test Report No.	:	CTB220623010CX
Test Standards	:	IEC 62321-3-1:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015 & IEC 62321-7-2:2017, IEC 62321-8:2017

The test results based on the above specified products comply with the EU RoHS Directive 2011/65 / EU Appendix II and amendment Directive (EU) 2015/863 limit on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

The test results apply only to the particular sample tested and to the specific tests carried out.





This Declaration is for the exclusive use of CTB's Client and is provided pursuant to the agreement between CTB and its Client. The observations and test results referenced from this Declaration are relevant only to the sample tested. This Declaration by itself does not imply that the material, product, or service is or has ever been under a CTB certification program.



Shenzhen CTB Testing Technology Co., Ltd

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Series models as below (page 2) :



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