

FCC TEST REPORT

Test report
On Behalf of
Wolf Steel Ltd.
For

Temperature Sensor Model No.: WSC-IS, WSC-OS

FCC ID: VA8-WSC-IS

Prepared For: Wolf Steel Ltd.

24 Napoleon Road Barrie, Ontario, L4M 4Y8 Canada

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

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Date of Test: May. 24, 2022~Jun. 10, 2022

Date of Report: Jun. 10, 2022

Report Number: HK2205242169-E



TEST RESULT CERTIFICATION

Applicant's name:	Wolf Stee	l Ltd.			
Address:	24 Napole	eon Road Barrie,	Ontario, L4N	√ 4Y8 Canac	da
Manufacture's Name:	Xiamen C	WON Technolog	y Co., Ltd		
Address:	Rm501, T China	ower C07, Softpa	ark Phase 3,	Jimei, Xiam	en, Fujian,
Product description					
Trade Mark:	N/A				
Product name:	Temperat	ture Sensor			
Model and/or type reference :	WSC-IS,	WSC-OS			
Standards:	FCC Rule ANSI C63	es and Regulation 3.10: 2013	ıs Part 15 Sı	ıbpart C Sec	tion 15.249
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Date of Test	:				
Date (s) of performance of tests	gNG :	May. 24, 2022~	Jun. 10, 202	2	
Date of Issue		Jun. 10, 2022			
Test Result	HUAKTES	Pass			
Testing Engine	eer :	Gar	j Dian	HUAKTESTING	
		(Ga	ary Qian)		
Technical Man		W. TESTING	HUAY		
Technical Man	ager :	Zden	Hu		
	MAKTES	TING HALAKTEST (É	den Hu)	WAKTESTING	
Authorized Sig	natory:	Tas	in Thou		

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(Jason Zhou)



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Report No.: HK2205242169-E

** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Jun. 10, 2022	Jason Zhou



1. TEST SUMMARY

1.1. Test Procedures and Results

DESCRIPTION OF TEST	SECTION NUMBER	RESULT
CONDUCTED EMISSIONS TEST	15.207	N/A
RADIATED EMISSION TEST	15.249(a)/15.209	COMPLIANT
BAND EDGE	15.249(d)/15.205	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	15.215 (c)	COMPLIANT
ANTENNA REQUIREMENT	15.203	COMPLIANT
FIELD STRENGTH OF FUNDAMENTAL	15.249(a)	COMPLIANT

1.2. Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

1.3. Measurement Uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.71dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz) = 3.90dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz) = 3.90dB, k=2
Radiated emission expanded uncertainty(Above 1GHz) = 4.28dB, k=2

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2. GENERAL INFORMATION

2.1. General Description of EUT

Equipment:	Temperature Sensor	HUAKTE	HUAKTE
Model Name:	WSC-IS		
Series Model:	WSC-OS	MAKTESTING	TNG
Model Difference:	All model's the function, softwar same, only with a product model model: WSC-IS.		
FCC ID:	VA8-WSC-IS	JAK TESTI	NO WAYTESTI
Antenna Type:	Internal Antenna	0,00	(a)
Antenna Gain:	1dBi		
Operation frequency:	915MHz	TESTING	TESTING
Modulation Type:	GFSK	O HUM	O HUAS
Power Source:	DC 3V from battery		
Power Rating:	DC 3V from battery))	O HUANTE

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2.2. Description of Test Setup

9		O Inc		(a)
Оре	ration of EUT during	g testing:		
UAKTES	STING WHAK TESTIN	G HUAK TESTIM		
ESTING	WAKTESTING	EUT		

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.

2.3. Measurement Instruments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 18, 2022	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 18, 2022	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 18, 2022	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 18, 2022	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 18, 2022	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Feb. 18, 2022	1 Year
11.	Pre-amplifier	EMCI	EMC051845S E	HKE-015	Feb. 18, 2022	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 18, 2022	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JY3120-B Version	HKE-083	N/A	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 18, 2022	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 18, 2022	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 18, 2022	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year
19.	Hight gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 18, 2022	1 Year

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3. CONDUCTED EMISSIONS TEST

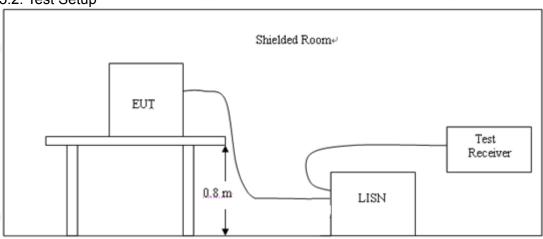
3.1. Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following.

Гианиланан	Maximum RF Line Voltage (dBμV)				
Frequency (MHz)	CLASS A		CLASS B		
(11112)	Q.P.	Ave.	Q.P.	Ave.	
0.15 - 0.50	79	66	66-56*	56-46*	
0.50 - 5.00	73	60	56	46	
5.00 - 30.0	73	60	60	50	

^{*} Decreasing linearly with the logarithm of the frequency.
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2. Test Setup



3.3. Test Procedure

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.



3.4. Test Result

Not applicable.

Note: EUT power supply by DC Power, so this test item not applicable.



4 FIELD STRENGTH OF FUNDAMENTAL

4.1. Limit

FCC§15.249(a);

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

4.2. Test Procedure

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery

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4.3. Test Result

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
915	94.21	-4.43	89.78	114	-24.22	peak
915	82.85	-4.43	78.42	94	-15.58	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	(HIM
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
915	92.64	-4.43	88.21	114	-25.79	peak
915	81.97	-4.43	77.54	94	-16.46	AVG



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5. RADIATED EMISSION TEST

5.1. Radiation Limit

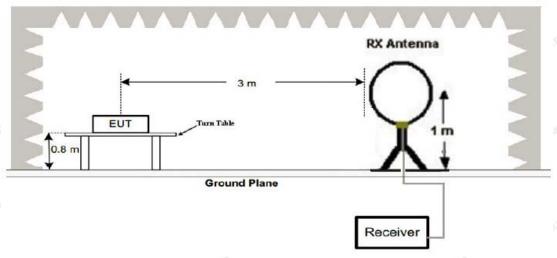
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

	uency Hz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009	-0.490	300	20log 2400/F (kHz)	2400/F (kHz)
0.490	-1.705	30	20log 24000/F (kHz)	24000/F (kHz)
1.70	5-30	30	20log 30	30
30	-88	3	10 W	100
88-	216	3	43.5	150
216	-960	3	46	200
Abov	e 960	HUPA 3	54	500

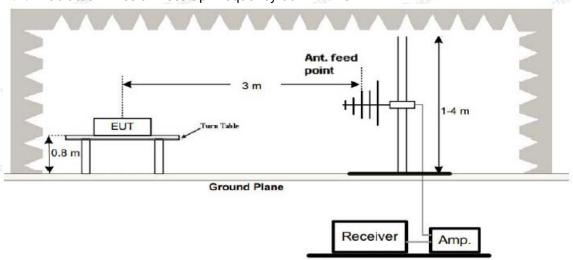
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

5.2. Test Setup

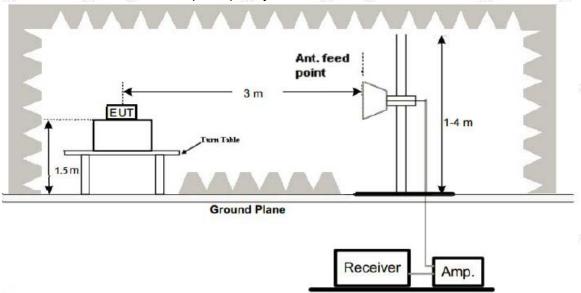
(1) Radiated Emission Test-Up Frequency Below 30MHz



(2) Radiated Emission Test-Up Frequency 30MHz~1GHz



(3) Radiated Emission Test-Up Frequency Above 1GHz



5.3. Test Procedure

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

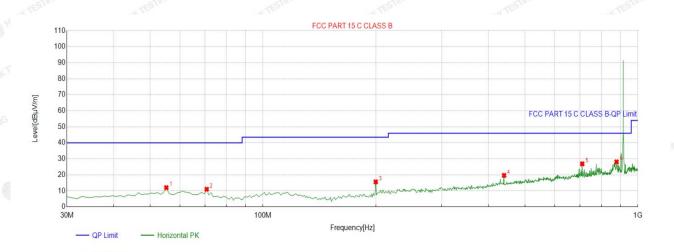
5.4. Test Result

PASS

All the test modes completed for test. The worst case of Radiated Emission is CH 01; the test data of this mode was reported.

Below 1GHz Test Results:

Antenna polarity: H



	42,4807 7.		400007	400	March 1	2000	N. N.	4000	D. V.
Suspected List									
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Dalasitus
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	55.2452	-14.43	26.43	12.00	40.00	28.00	100	17	Horizontal
2	70.7808	-16.20	27.22	11.02	40.00	28.98	100	153	Horizontal
3	199.9199	-15.51	31.14	15.63	43.50	27.87	100	66	Horizontal
4	439.7498	-8.85	28.52	19.67	46.00	26.33	100	2	Horizontal
5	710.6507	-4.39	31.27	26.88	46.00	19.12	100	109	Horizontal
6	877.6577	-1.59	29.70	28.11	46.00	17.89	100	85	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

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Antenna polarity: V



Susp	Suspected List								
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Dolovity
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	45.5355	-15.14	28.94	13.80	40.00	26.20	100	260	Vertical
2	70.7808	-16.20	31.10	14.90	40.00	25.10	100	229	Vertical
3	120.3003	-16.00	27.54	11.54	43.50	31.96	100	19	Vertical
4	199.9199	-15.51	27.80	12.29	43.50	31.21	100	165	Vertical
5	698.0280	-4.65	34.76	30.11	46.00	15.89	100	35	Vertical
6	902.9029	-1.24	32.01	30.77	46.00	15.23	100	252	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

	Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
11.	- Mic	TESTI-	- WAKTESTING
	HUANTES	HILLY TES	MAKTES
		ß	-STING
	- THE HUAR	THE THE WHI	ie.

Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.



Above 1 GHz Test Results:

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
1830	52.15	-3.51	48.64	74	-25.36	peak
1830	42.63	-3.51	39.12	54	-14.88	AVG
2745	51.98	-0.82	51.16	74	-22.84	peak
2745	39.22	-0.82	38.4	54	-15.6	AVG

Vertical:

Meter Reading	Factor	Emission Level	Limits	Margin	Detactor
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
52.17	-3.51	48.66	74	-25.34	peak
40.31	-3.51	36.8	54	-17.2	AVG
50.32	-0.82	49.5	74	-24.5	peak
38.21	-0.82	37.39	54	-16.61	AVG
	Reading (dBμV) 52.17 40.31 50.32	(dBµV) (dB) 52.17 -3.51 40.31 -3.51 50.32 -0.82	Reading Factor Emission Level (dBμV) (dB) (dBμV/m) 52.17 -3.51 48.66 40.31 -3.51 36.8 50.32 -0.82 49.5	Reading Factor Emission Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 52.17 -3.51 48.66 74 40.31 -3.51 36.8 54 50.32 -0.82 49.5 74	Reading Factor Emission Level Limits Margin (dBμV) (dB) (dBμV/m) (dBμV/m) (dB) 52.17 -3.51 48.66 74 -25.34 40.31 -3.51 36.8 54 -17.2 50.32 -0.82 49.5 74 -24.5

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7) All modes of operation were investigated and the worst-case emissions are reported.

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6. BAND EDGE

6.1. Limits

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

6.2. Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 1MHz and VBM to 3MHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength.

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6.3. Test Result

PASS

Radiated Band Edge Test:

Operation Mode: TX CH (915MHz)

Horizontal (Worst case)

Meter Reading	Factor	Emission Level	Limits	Margin	Detector	
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
54.15	-5.81	48.34	74 TESTING	-25.66	peak	
TESTIG (-5.81	STING I TEST I	54	TOTAL	AVG	
51.06	-5.84	45.22	74	-28.78	peak	
1	-5.84	/	54	1	AVG	
	Reading (dBµV) 54.15	Reading Factor (dBμV) (dB) 54.15 -5.81 / -5.81 51.06 -5.84	Reading Factor Emission Level (dBμV) (dB) (dBμV/m) 54.15 -5.81 48.34 / -5.81 / 51.06 -5.84 45.22	Reading Factor Emission Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 54.15 -5.81 48.34 74 / -5.81 / 54 51.06 -5.84 45.22 74	Reading (dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) (dBμV/m) (dBμV/m) (dBμν/m) (dBμν/m)	

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
902	56.28	-5.81	50.47	74	-23.53	peak
902	/	-5.81	7	54	1	AVG
928	55.32	-5.84	49.48	74	-24.52	peak
928	AK TESTINE	-5.84	THE I WANTED TO	54	W. TESTING	AVG

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7. OCCUPIED BANDWIDTH MEASUREMENT

7.1. Test Setup

Same as Radiated Emission Measurement

7.2. Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation.
- 3. Based on ANSI C63.10 section 6.9.2: RBW=1KHz. VBW=3KHz, Span=150KHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

7.3. Measurement Equipment Used

Same as Radiated Emission Measurement

7.4. Test Result

PASS

Frequency	20dB Bandwidth (MHz)	Result
915 MHz	0.0531	PASS

CH: 915MHz



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8. ANTENNA REQUIREMENT

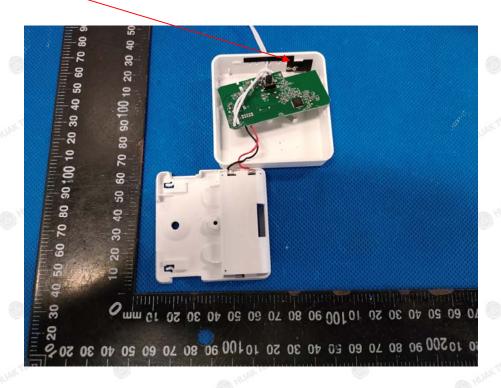
Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Connected Construction

The antenna used in this product is a Internal Antenna, need professional installation. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 1dBi.

ANTENNA

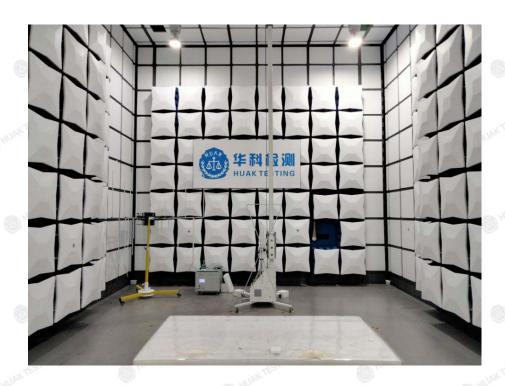


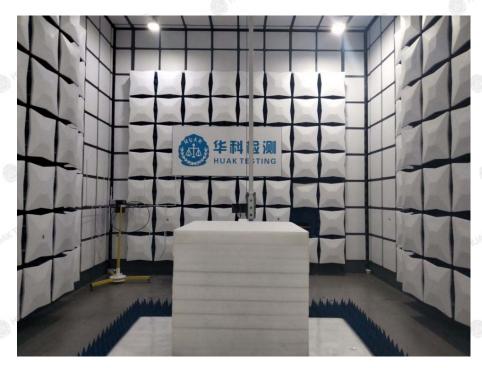
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9. PHOTOGRAPH OF TEST

Radiated Emission





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10. PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

End of test report-