

Page 1 of 43 Report No.: HK2209084037-E

TEST REPORT

FCC PART 15 SUBPART C 15.247

Test report
On Behalf of
TOLEZ LTD

For

Smart Neon Rope Light

Model No.: TLZ-NL01-005, TLZ-NL01-001

FCC ID: 2A43H-NL01-001-005

Prepared For: TOLEZ LTD

Building 308, Hesheng cultural and creative park, Longhua District, Shenzhen,

Guangdong, 518110, China

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

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai

Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: Sep. 08, 2021 ~ Sep. 15, 2022

Date of Report: Sep. 15, 2022

Report Number: HK2209084037-E

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



Page 2 of 43 Report No.: HK2209084037-E

TEST RESULT CERTIFICATION

Applicant's name:	TOLEZ LTD	HUP			
Address:			g cultural and ng, 518110, Ch	creative park, Lo nina	nghua District,
Manufacture's Name	TOLEZ LTD	LAKTESTI			
Address:			g cultural and ng, 518110, Ch	creative park, Lo nina	nghua District,
Product description					
Trade Mark:	TOLEZ				
Product name:	Smart Neor	n Rope Lig	jht		
Model and/or type reference:	TLZ-NL01-0	005, TLZ-I	NL01-001		
Standards:	47 CFR FC	C Part 15	Subpart C 1	5.247	
the Shenzhen HUAK Testing Tec of the material. Shenzhen HUA not assume liability for damag material due to its placement an Date of Test	K Testing Teles resulting d context.	echnology from th	Co., Ltd. tak	tes no responsibiliterpretation of	bility for and wi
Date of Issue	: s	Sep. 15, 20)22		
Test Result	HUNKTES PAIG F	Pass			
Prepared	by:	1012	roject Enginee	er (
Reviewed	by:	2	den	the waste	

Tophnical Director W Tesmis

Technical Director

Project Supervisor

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

Approved by:

Report No.: HK2209084037-E

		Content	s		Page
1 TES	T SUMMARY				6
1:1'm/G	TEST DESCRIPTION	TESTING.	TSTMG	TSTNG	6
	MEASUREMENT UNCE				
	NFORMATION OF THE				
	IERAL INFORMATION				
	GENERAL DESCRIPTIO				
	DESCRIPTION OF TEST				
2.3	DESCRIPTION OF SUPP	PORT UNITS			10
	DESCRIPTION OF TEST				
3 EQU	IIPMENTS LIST FOR AL	L TEST ITEMS			12
4 TES	T RESULT				14
4.1	ANTENNA REQUIREME	NT TESTING			TESTING 14
4.1.1		nt			
4.1.2					
	CONDUCTION EMISSIC				
4.2.1		Limit			
4.2.2	ACON PRO				
4.2.3	T000	TES TING			
4.2.4	Test results		ANG AND HUN		17
	RADIATED EMISSIONS				
4.3.1		/ Limit			
4.3.2					
4.3.3	B Test Result				21
4.4	MAXIMUM OUTPUT PO	WER MEASUREMENT	. TESTIN	AK TESTIN	28
4.4.1	Limit	(a) W			28
4.4.2	2 Test procedure			, sG	28
4.4.3	B Deviation from stand	lard	Say	MAKES,	28
4.4.4	Test setup)	(100	8) ·	28
4.4.5	Test results			<u> </u>	28
4.5 I	POWER SPECTRAL DE	NSITY		LTES I	29
4.5.1		SUNG.			
4.5.2	2 Test procedure	Wax The	ALIAN.	Maker	29
4.5.3	B Deviation from stand	lard			29
4.5.4	Test setup				29
4.5.5	Test results	_{AN} G	, AlG	, and	30

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

Page 4 of 43

Report No.: HK2209084037-E

4.6.1 4.6.2 Test procedure 32 4.6.3 4.6.4 4.6.5 Test result _______32 OCCUPIED BANDWIDTH.......34 4.7.1 Test procedure 34 4.7.2 4.7.3 4.7.4 4.8.1 4.8.2 4.8.3 4.8.4 4.8.5 4.9.1 4.9.2 4.9.3 4.9.4 4.9.5

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 5 of 43 Report No.: HK2209084037-E

** Modified History **

Revision	Description	Issued Data	Remark Jason Zhou	
Revision 1.0	Initial Test Report Release	Sep. 15, 2022		
UAK TE	HUAK TE	HUAK TE	HUAKTE	
	9	9		

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



1 TEST SUMMARY

1.1 TEST DESCRIPTION

Test Item	Test Requirement	Result	
Antenna Requirement	§15.203/§15.247(b)(4)	PASS	
Conducted Emission	FCC Part 15.207	PASS	
Radiated Emissions	FCC Part 15.205/15.209	PASS	
Maximum Peak Output Power	FCC Part 15.247(b)	PASS	
Power Spectral Density	FCC Part 15.247(e)	PASS	
6dB Bandwidth & 99% Bandwidth	FCC Part 15.247(a)(2)	PASS	
Spurious RF Conducted Emission	FCC Part 15.247(d)	PASS	
Band Edge	FCC Part 15.247(d)	PASS	

AFICATION.

Report No.: HK2209084037-E

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 7 of 43 Report No.: HK2209084037-E

1.2 MEASUREMENT UNCERTAINTY

All measurements involve certain levels of uncertainties. 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 CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS 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. The maximum value of the uncertainty as below:

No.	Item	Uncertainty	
1	Conducted Emission Test	±2.71dB	
2	All emissions, radiated(<1G)	±3.90dB	
3	All emissions, radiated(>1G)	±4.28dB	
4	RF power, conducted	±0.37dB	
5	Spurious emissions, conducted	±0.11dB	
6	Temperature	±0.1°C	
T7 THE	Humidity	±1.0%	

1.3 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.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

Page 8 of 43 Report No.: HK2209084037-I

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

EUT Name:	Smart Neon Ro	pe Light	16				
Model No:	TLZ-NL01-005	-WG	"IAK TESTIL"	-mG			
Series Model:	TLZ-NL01-001	WAK TES	0	TUAK TES			
	All model's the	function, softwa	re and electric circu	uit are the			
Model Difference:	same, only with	same, only with a product model named different. Test					
TESTING TESTING THE	sample model:	sample model: TLZ-NL01-005.					
Brand Name:	TOLEZ	MUAN.	HUAKTE	HUAR			
Operation Frequency:	2402 MHz to 24	480 MHz					
Channel Separation:	2MHz						
Number of Channel:	40	OK TESTING	Y TESTIN	G .v.T			
Modulation Technology:	GFSK	O HUN	MIN.	O HUM			
Hardware Version:	V1.0		-mG				
Software Version:	V1.0	TING	WAY TES	STING			
Antenna Type:	PCB Antenna	HUAKTE		HUAKTE			
Antenna Gain:	-2.15dBi	9	STING				
Power Supply:	DC24V From Adapter with AC100-240V, 50/60Hz						
Note:	AKTESTING	MAKTESTA	NY TE	STIME WAY TES			
20	- 00	ATTENDED TO	11010	ALC:			

^{1.} For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 9 of 43 Report No.: HK2209084037-E

HUAKTE	HUAR	Description of	Channel:	HUAKTE	HUAN
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
TESTO O	2402	14	2430	28	2458
1 (2404	15	2432	29	2460
TIME 2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4 @ 141,000	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
HUAKTE 7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
5TMG 12	2426	26	2454	TESTIG	
13	2428	27	2456		OK TECTIVES

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 10 of 43 Report No.: HK2209084037-I

2.2 DESCRIPTION OF TEST CONDITIONS

(1) E.U.T. test conditions:

For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

- (2) Frequency range of radiated measurements:
 The test range will be up to the tenth harmonic of the highest fundamental frequency.
- (3) Pre-test the EUT in all transmitting mode at the lowest (2402 MHz), middle (2440 MHz) and highest (2480 MHz) channel with different data packet and conducted to determine the worst-case mode, only the worst-case results are recorded in this report.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	_	/	/

Note:

- 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.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



Page 11 of 43 Report No.: HK2209084037-E

2.4 DESCRIPTION OF TEST SETUP

Operation of EUT during Conducted testing and Radiation below 1GHz testing:



Operation of EUT during Radiation above 1GHz testing:



Adapter information

Model: LZ-2401000A

Input: AC100-240V, 50/60Hz, 0.7A Output: 24VDC, CV Max 1.0A

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.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



B EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 18, 2022	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-059	Feb. 18, 2022	1 Year
3.	Receiver	R&S	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
4.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	1 Year
5.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 18, 2022	1 Year
6.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	1 Year
7	High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 18, 2022	1 Year
8.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 18, 2022	1 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 18, 2022	1 Year
10.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 18, 2022	1 Year
11.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Feb. 18, 2022	1 Year
12.	Pre-amplifier	EMCI	EMC051845SE	HKE-015	Feb. 18, 2022	1 Year
13.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 18, 2022	1 Year
14.	High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 18, 2022	1 Year
15.	Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A
16.	Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A
17.	RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A
18.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	1 Year
19.	RF test software	Tonscend	JS1120-4	HKE-113	N/A	N/A
20.	RF test software	Tonscend	JS1120-3	HKE-114	N/A	N/A
21.	RF test software	Tonscend	JS1120-1	HKE-115	N/A	N/A
22.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	1 Year
23.	Signal generator	Agilent	N5182A	HKE-029	Feb. 18, 2022	1 Year
24.	Signal Generator	Agilent	83630A	HKE-028	Feb. 18, 2022	1 Year
25.	Power meter	Agilent	E4419B	HKE-085	Feb. 18, 2022	1 Year

this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

430

CATION

Report No.: HK2209084037-E



Page 13 of 43

Report No.: HK2209084037-E

26.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 18, 2022	1 Year
27.	RF Cable(below1GHz)	Times	9kHz-1GHz	HKE-117	Feb. 18, 2022	1 Year
28.	RF Cable(above 1GHz)	Times	1-40G	HKE-034	Feb. 18, 2022	1 Year
29.	RF Cable (9KHz-40GHz)	Tonscend	170660	N/A	Feb. 18, 2022	1 Year
30.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 17, 2020	3 Year
31.	High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 18, 2022	1 Year

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

Page 14 of 43 Report No.: HK2209084037-E

4 TEST RESULT

4.1 ANTENNA REQUIREMENT

4.1.1 Standard 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. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

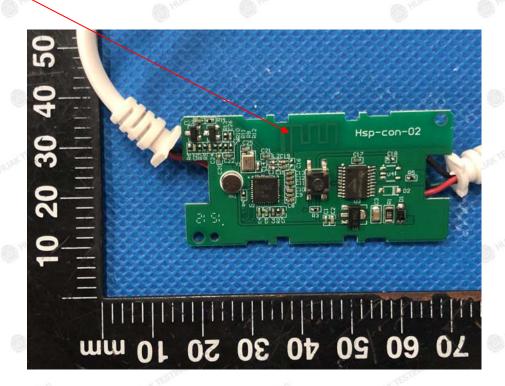
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a PCB Antenna, is a permanently attached antenna on the PCB. It conforms to the standard requirements. The directional gains of antenna used for transmitting is -2.15dBi.

4.1.2 EUT Antenna



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

Page 15 of 43 Report No.: HK2209084037-

4.2 CONDUCTION EMISSIONS MEASUREMENT

4.2.1 Applied procedures / Limit

According to FCC CFR Title 47 Part 15 Subpart C Section 15.207, AC Power Line Conducted Emissions Limits for Licence-Exempt Radio Apparatus as below:

TESTING HUMAN TESTIN	Limit (dBuV)			
Frequency range (MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56 To 100	46 MTESING		
5-30	60	50		

^{*} Decreases with the logarithm of the frequency.

4.2.2 Test procedure

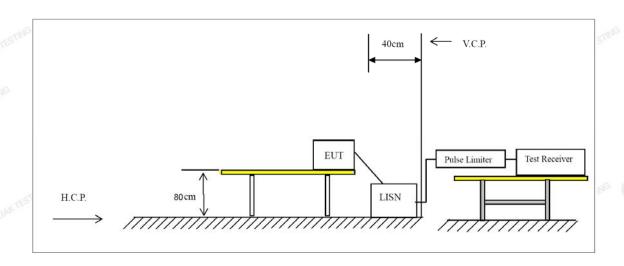
- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
- 2. Support equipment, if needed, was placed as per ANSI C63.10:2013.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
- 4. The 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.
- 8. During the above scans, the emissions were maximized by cable manipulation.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



Page 16 of 43 Report No.: HK2209084037-E

4.2.3 Test setup



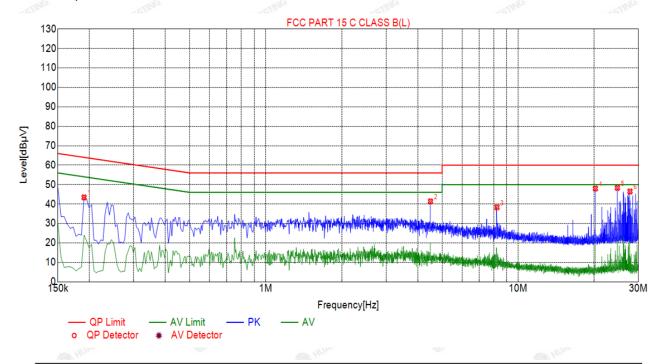
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK,

this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

Page 17 of 43 Report No.: HK2209084037-E

4.2.4 Test results

Test Specification: Line



Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.1905	43.43	20.04	64.01	20.58	23.39	PK	L	
2	4.4970	41.39	20.25	56.00	14.61	23.14	PK	L	
3	8.2455	38.36	20.14	60.00	21.64	20.22	PK	L	
4	20.2470	48.00	20.11	60.00	12.00	29.89	PK	L	
5	24.7425	48.32	20.24	60.00	11.68	30.08	PK	L	
6	27.7620	46.47	20.26	60.00	13.53	26.21	PK	L	

Remark: Margin = Limit - Level

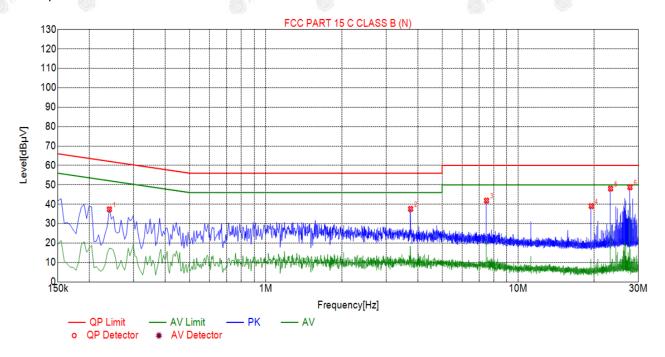
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

Page 18 of 43 Report No.: HK2209084037-E

Test Specification: Neutral



	Suspected List												
	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре				
j.	1	0.2400	37.39	20.03	62.10	24.71	21.36	PK	N				
	2	3.7500	37.59	20.25	56.00	18.41	21.34	PK	N				
	3	7.4985	41.89	20.18	60.00	18.11	25.71	PK	N				
20	4	19.4955	39.06	20.08	60.00	20.94	22.98	PK	N				
	5	23.2530	48.08	20.20	60.00	11.92	31.88	PK	N				
	6	27.7485	48.78	20.26	60.00	11.22	42.52	PK	N				

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

FICATION

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

Report No.: HK2209084037-E



4.3 RADIATED EMISSIONS MEASUREMENT

4.3.1 Applied procedures / Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Except when the requirements applicable to a given device state otherwise, emissions from license-exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

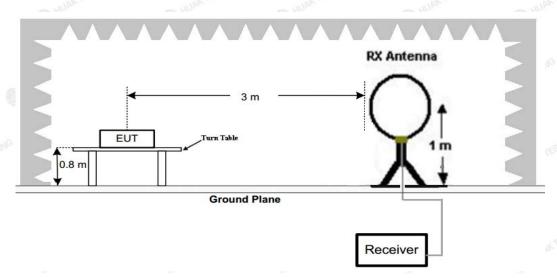
Radiated emission limits

	Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
	0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
A	0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
	1.705-30	3	20log(30)+ 40log(30/3)	30
185	30-88	3, 15	40.0	100
	88-216	3	43.5	150
	216-960	3	46.0	200
	Above 960	JAK TES 3	54.0	500

4.3.2 Test setup

Test Configuration:

1) 9 kHz to 30 MHz emissions:

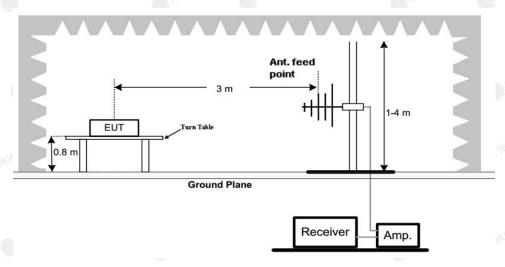


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

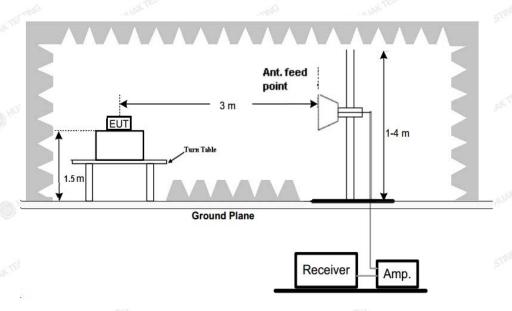


Page 20 of 43 Report No.: HK2209084037-E

2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 25 GHz emissions:



Test Procedure

- 1. The EUT was placed on turn table which is 0.8m above ground plane for below 1GHz test, and on a low permittivity and low loss tangent turn table which is 1.5m above ground plane for above 1GHz test.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

The result 4 how Repeat above procedures until all frequency measurements have been completed the document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



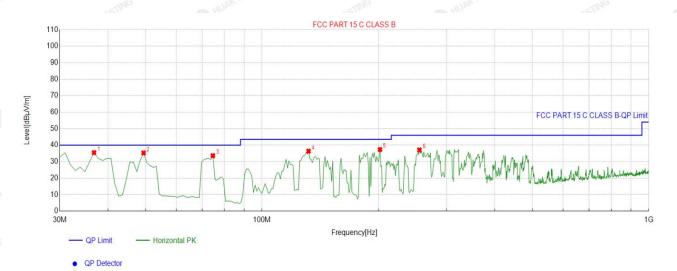
Page 21 of 43 Report No.: HK2209084037-E

4.3.3 Test Result

Below 1GHz Test Results:

All modes have been tested, only the worst mode is reflected.

Antenna polarity: H



	ACCOUNTS A		The state of the s				ACCOUNTS TO		
Suspe	cted List								
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Dalanitu
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	36.7968	-15.57	51.02	35.45	40.00	4.55	100	349	Horizontal
2	49.4194	-14.41	49.68	35.27	40.00	4.73	100	67	Horizontal
3	74.6647	-16.40	50.00	33.60	40.00	6.40	100	228	Horizontal
4	131.9520	-17.07	53.43	36.36	43.50	7.14	100	146	Horizontal
5	201.8619	-14.82	52.16	37.34	43.50	6.16	100	207	Horizontal
6	255.2653	-12.77	49.86	37.09	46.00	8.91	100	295	Horizontal

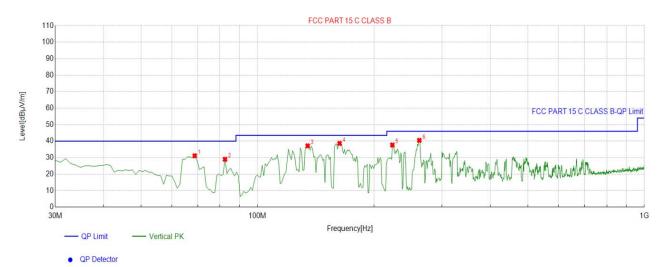
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level;

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 22 of 43 Report No.: HK2209084037-E

Antenna polarity: V



Suspected List Freq. Factor Reading Level Limit Margin Height Angle NO. Polarity [MHz] [dB] [dBµV/m] [dBµV/m] [dBµV/m] [dB] [cm] [°] 68.8388 -15.26 46.38 31.12 40.00 8.88 100 165 Vertical 82.4324 -17.45 46.46 29.01 40.00 10.99 100 286 Vertical -17.3554.48 37.13 43.50 6.37 247 Vertical 134.8649 100 55.66 43.50 354 163.0230 -17.0238.64 4.86 100 Vertical 223.2232 -13.9351.60 37.67 46.00 8.33 100 231 Vertical 52.99 40.47 46.00 262.0621 -12.52 5.53 100 218 Vertical

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

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

	Frequency (MHz)		Level@3m (dBµV/m)	Limit@3m (dBµV/m)		
3			ESTING	TESTING		
	TESTING.	HUAK	TESTING	HUAK	TESTING	
	HUAR -		HUAN-		HUAL	
	<u></u>	STING	-	ESTING	-	

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.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 23 of 43 Report No.: HK2209084037-E

For 1GHz to 25GHz

CH Low (2402MHz)

Horizontal:

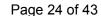
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4804	54.89	-3.65	51.24	74.00	-22.76	peak
4804	42.13	-3.65	38.48	54.00	-15.52	AVG
7206	52.24	-0.95	51.29	74.00	-22.71	peak
7206	42.96	-0.95	42.01	54.00	-11.99	AVG
emark: Facto	or = Antenna Fac	ctor + Cable L	oss – Pre-amplifier.			

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4804	54.08	-3.65	50.43	74.00	-23.57	peak
4804	41.19	-3.65	37.54	54.00	-16.46	AVG
7206	50.34	-0.95	49.39	74.00	-24.61	peak
7206	37.51	-0.95	36.56	54.00	-17.44	AVG

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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.





CH Middle (2440MHz)

Horizontal:

	ASSET ALL		All L.					
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datasta		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
4880.00	55.27	-3.54	51.73	74.00	-22.27	peak		
4880.00	40.06	-3.54	36.52	54.00	-17.48	AVG		
7320.00	51.85	-0.81	51.04	74.00	-22.96	peak		
7320.00	42.33	-0.81	41.52	54.00	-12.48	AVG		

Vertical:

600	Ho					
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4880.00	55.94	-3.54	52.40	74.00	-21.60	peak
4880.00	43.23	-3.54	39.69	54.00	-14.31	AVG
7320.00	51.72	-0.81	50.91	74.00	-23.09	peak
7320.00	39.19	-0.81	38.38	54.00	-15.62	AVG

AFICATION.

Report No.: HK2209084037-E

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

Page 25 of 43 Report No.: HK2209084037-E

CH High (2480MHz)

Horizontal:

requency	Meter Reading	Factor	Emission Level	Limits	Margin	HUAK P
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4960	53.08	-3.43	49.65	74.00	-24.35	peak
4960	43.16	-3.44	39.72	54.00	-14.28	AVG
7440	51.34	-0.77	50.57	74.00	-23.43	peak
7440	39.21	-0.77	38.44	54.00	-15.56	AVG

Vertical:

			4 7				
Frequency	Meter / Reading	Factor	Emission Level	Limits 0	Margin	(I) HUM	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	
4960	54.35	-3.43	50.92	74.00	-23.08	peak	
4960	43.86	-3.44	40.42	54.00	-13.58	AVG	
7440	51.19	-0.77	50.42	74.00	-23.58	peak	
7440	38.02	-0.77	37.25	54.00	-16.75	AVG	

Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

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

- (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 recorded 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.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



Page 26 of 43 Report No.: HK2209084037-E

Radiated Band Edge Test:

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case):

10	X(5)	100000	PENGR	PENCEL.		PESSEL
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310.00	57.98	-5.81	52.17	74	-21.83	peak
2310.00	I O	-5.81	1	54	1	AVG
2390.00	56.76	-5.84	50.92	74	-23.08	peak
2390.00	/	-5.84	1	54	/	AVG
2400.00	54.07	-5.84	48.23	, ₃ 74	-25.77	peak
2400.00	HUAK TES	-5.84	I HUAK TE	54	AKTES	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310.00	56.29	-5.81	50.48	74	-23.52	peak
2310.00	WANTED THUS	-5.81	STAILS / MAKTEST	54	AK TESTING	AVG
2390.00	55.91	-5.84	50.07	74	-23.93	peak
2390.00	TING 1	-5.84	1	54	THUS /	AVG
2400.00	54.35	-5.84	48.51	74	-25.49	peak
2400.00	1	-5.84	1	54	1	AVG

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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 27 of 43 Report No.: HK2209084037-E

Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits (Margin	Detector Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
2483.50	57.29	-5.81	51.48	74	-22.52	peak	
2483.50	1	-5.81	1	54 STING	1	AVG	
2500.00	56.84	-6.06	50.78	74	-23.22	peak	
2500.00	HUAK	-6.06	HUAK I	54	HUAKTES	AVG	

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
2483.50	56.09	-5.81	50.28	74	-23.72	peak	
2483.50	TAX LESTING (1)	-5.81	ESTING I LAKTESTA	54	W TENNG	AVG	
2500.00	56.27	-6.06	50.21	74	-23.79	peak	
2500.00	1	-6.06	/	54	1	AVG	

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

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Remark:

- 1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

Page 28 of 43 Report No.: HK2209084037-E

4.4 MAXIMUM OUTPUT POWER MEASUREMENT

4.4.1 Limit

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 Test procedure

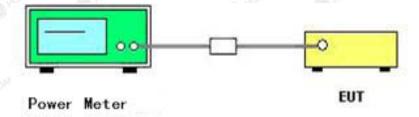
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The maximum Average conducted output power may be measured using a wideband RF power meter with a thermocouple detector or equivalent. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

4.4.3 Deviation from standard

No deviation.

4.4.4 Test setup



4.4.5 Test results

Channel	Channel frequency (MHz)	Output power (dBm)	Limit (dBm)	Result	
Low	2402	5.67		Pass	
Middle	2440	6.39	30	Pass	
High	2480	6.95	(I) HUM	Pass	

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

Page 29 of 43 Report No.: HK2209084037-E

4.5 POWER SPECTRAL DENSITY

4.5.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.5.2 Test procedure

Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

Set the RBW = 3 kHz.

Set the VBW =10 KHz.

Set the span to 1.5 times the DTS channel bandwidth.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum power level.

If measured value exceeds limit, reduce RBW(no less than 3 kHz)and repeat.

The resulting peak PSD level must be 8 dBm.

4.5.3 Deviation from standard

No deviation.

4.5.4 Test setup

EUT SPECTRUM ANALYZER

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com





4.5.5 Test results

Channel	Channel frequency (MHz)	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
Low	2402	-9.91	AK TESTING	Pass
Middle	2440	-9.64	8.00	Pass
High	2480	-8.68	-n/G	Pass

CH 00



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK,

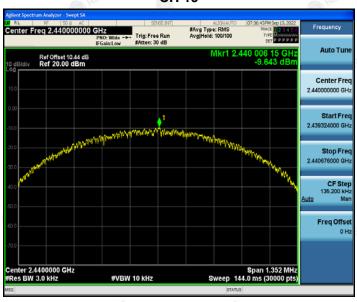
Report No.: HK2209084037-E

this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 31 of 43 Report No.: HK2209084037-E

CH 19



CH 39



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

Page 32 of 43 Report No.: HK2209084037-E

4.6 6DB BANDWIDTH

4.6.1 Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

4.6.2 Test procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=100 KHz and VBW=300 KHz. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.6.3 Deviation from standard

No deviation.

4.6.4 Test setup



4.6.5 Test result

Channel	Channel frequency (MHz)	6dB Bandwidth (MHz) Limit (KHz)		Result
Low	2402	0.656	MAKTE	Pass
Middle	2440	0.676	≥500	Pass
High	2480	0.692		Pass

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



Page 33 of 43 Report No.: HK2209084037-E

CH 00



CH 19



CH 39



The results shown in this test report refer only to th

this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

nly. The document is issued by HUAK,



Page 34 of 43 Report No.: HK2209084037-E

4.7 OCCUPIED BANDWIDTH

4.7.1 Test procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

RBW=1% to 5% of the OBW

VBW=approximately 3 X RBW

Detector=Peak

Trace Mode: Max Hold

Use the 99% power bandwidth function of the instrument to measure the Occupied Bandwidth and recorded.

4.7.2 Deviation from standard

No deviation.

4.7.3 Test setup



4.7.4 Test result

N/A

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



Page 35 of 43 Report No.: HK2209084037-E

4.8 BAND EDGE

4.8.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under FCC rules in section 5.8.1, the attenuation required shall be 30 dB instead of 20 dB.

4.8.2 Test procedure

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation, RBW ≥ 1% of the span, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold.

4.8.3 Deviation from standard

No deviation.

4.8.4 Test setup



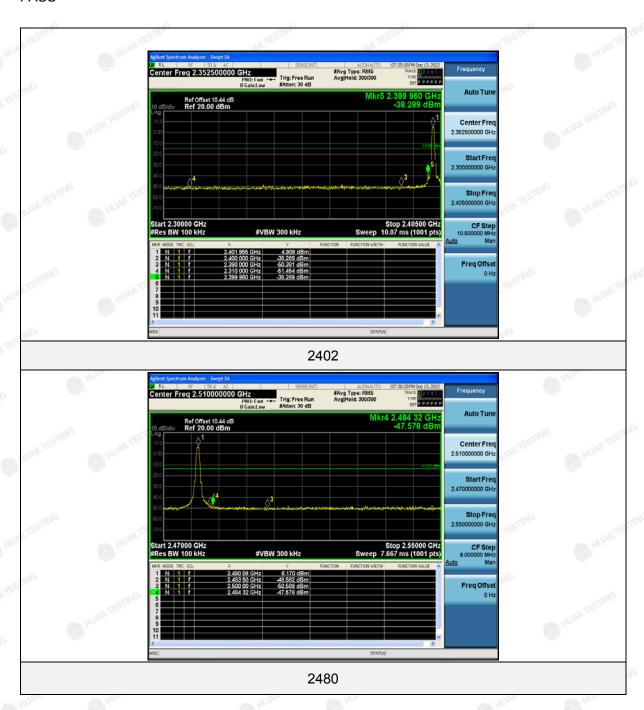
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Report No.: HK2209084037-E

4.8.5 Test results

PASS



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 37 of 43 Report No.: HK2209084037-E

4.9 CONDUCTED SPURIOUS EMISSIONS

4.9.1 Applied procedures / Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section (b)(3) of RSS 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. For below 30MHz,For 9KHz-150kHz,150K-10MHz,We use the RBW 1KHz,10KHz, So the limit need to calculated by "10lg(BW1/BW2)". for example For9KHz-150kHz,RBW 1KHz, The Limit= the highest emission level-20-10log(100/1)= the highest emission level-40.

4.9.2 Test procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b.Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation, RBW \geq 1% of the span, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold.

4.9.3 Deviation from standard

No deviation.

4.9.4 Test setup

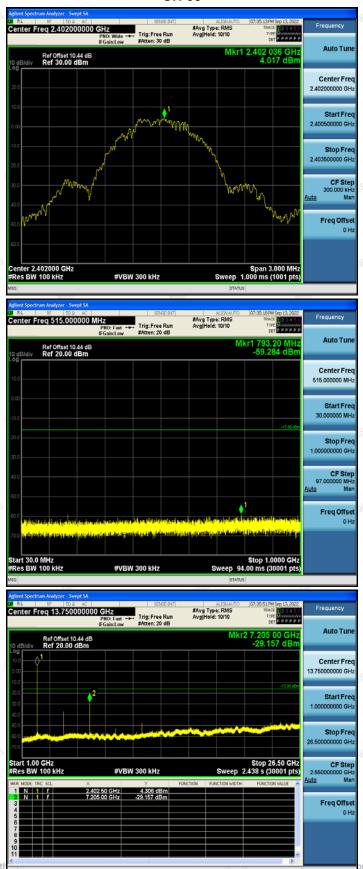


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

Report No.: HK2209084037-E Page 38 of 43

4.9.5 Test results

CH 00



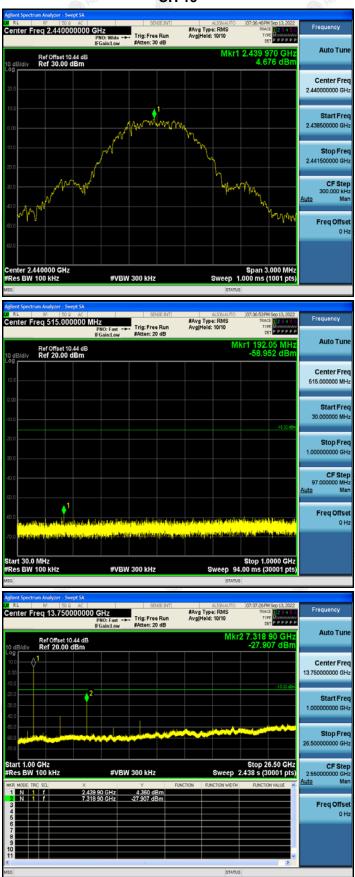
The results shown in this test report refer only to t

nly. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 39 of 43 Report No.: HK2209084037-E

CH 19

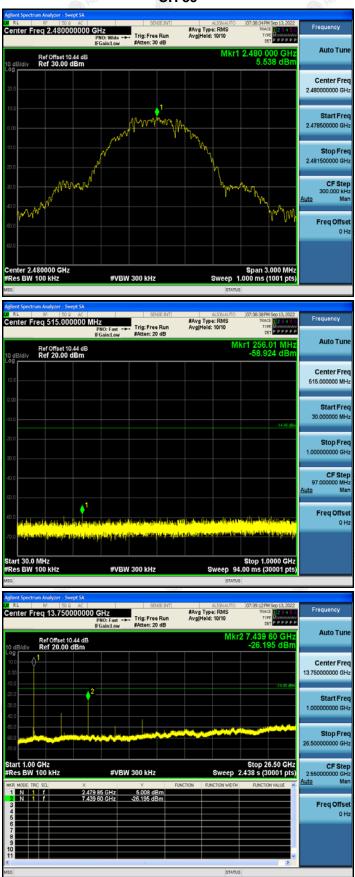


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 40 of 43 Report No.: HK2209084037-E

CH 39

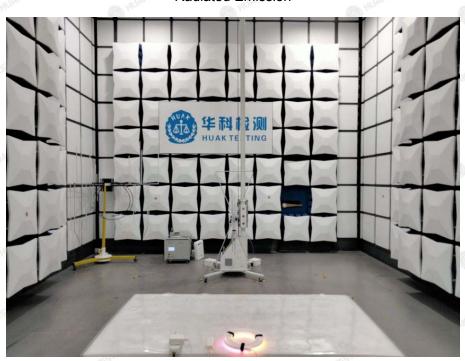


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

Page 41 of 43 Report No.: HK2209084037-E

5 TEST SETUP PHOTO

Radiated Emission



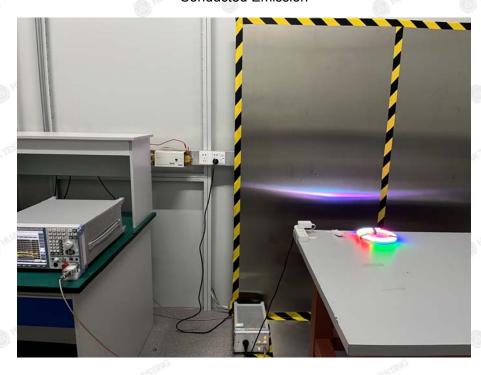


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 42 of 43 Report No.: HK2209084037-E

Conducted Emission



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 43 of 43 Report No.: HK2209084037-E

Reference	HUANTESTINE	MAKTES I	End of test report	HUAKTESI	WAY TESTING	

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.