

TEST REPORT

FCC PART 15 SUBPART C 15.247

Test report

On Behalf of

Shenzhen Qurun Technology Co. LTD

For

smart watch

Model No.: QR02, QR03, QR05, QR06, QR07, QR08, QR09, QR10, QR11, CF11, CF12, CF95

FCC ID: 2A877-QR02

Prepared For: Shenzhen Qurun Technology Co. LTD

305, Building B, chengshi Shanhai Dinghui, No. 37 longjingao Road, Yangmei

Community, Bantian Street, Longgang District, Shenzhen, China

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

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Date of Test: Oct. 25, 2022 ~ Nov. 01, 2022

Date of Report: Nov. 01, 2022

Report Number: HK2210254712-E

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TEST RESULT CERTIFICATION

Applicant's name: Shenzhen Qurun Technology Co. LTD

305, Building B, chengshi Shanhai Dinghui, No. 37 longjingao Road,

Report No.: HK2210254712-

Address: Yangmei Community, Bantian Street, Longgang District, Shenzhen,

China

Manufacture's Name: Shenzhen Qurun Technology Co. LTD

305, Building B, chengshi Shanhai Dinghui, No. 37 longjingao Road,

Address: Yangmei Community, Bantian Street, Longgang District, Shenzhen,

China

Product description

Trade Mark: N/A

Product name..... smart watch

QR02, QR03, QR05, QR06, QR07, QR08, QR09, QR10, QR11,

Model and/or type reference ...: CF11, CF12, CF95

Standards...... 47 CFR FCC Part 15 Subpart C 15.247

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Date of Test

Date (s) of performance of tests...... Oct. 25, 2022 ~ Nov. 01, 2022

Test Result Pass

Prepared by:

Project Engineer

Reviewed by:

Project Supervisor

Approved by:

Technical Director

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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Nov. 01, 2022	Jason Zhou
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1 TEST SUMMARY

1.1 TEST DESCRIPTION

11-	177	472
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

CATION

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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
HI AK TES	Conducted Emission Test	±2.71dB
2	All emissions, radiated(<1G)	±3.90dB
3	All emissions, radiated(>1G)	±4.28dB

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.

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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

11, CF12, CF9 model's the fur	5 TESTING	08, QR09, QR10	NY TESTI
203, QR05, QR0 11, CF12, CF99 model's the fur	5 TESTING	HUAKTE	NY TESTI
11, CF12, CF9 model's the fur	5 TESTING	HUAKTE	NY TESTI
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mple model: QF	•	named different	
A TESTING	HAKTESTIL	NY.	ESTING
02 MHz to 2480) MHz	(i) HO	9
Hz			
m/G	-mG		_{IN} G
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7dBi	2 per		(HUAN
5V from Charg	ging Cable or E	C 3.7V from bat	ttery
-TING	TSTING (HOW	TING
	SK .0 .0 ernal Antenna	SK .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	A D2 MHz to 2480 MHz Hz SK .0 .0 .0 ernal Antenna

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

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THE SHE	-G	-mG Sille v		G TNG
UAK TEST!	Description o	f Channel:	"JAK TESTI	THAK TEST
Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
2402	14	2430	28	2458
2404	15	2432	29	2460
2406	16	2434	30	2462
2408	17	2436	31	2464
2410	18	2438	32	2466
2412	19	2440	33	2468
2414	20	2442	34	2470
2416	21	2444	35	2472
2418	22	2446	36	2474
2420	23	2448	37	2476
2422	24	2450	38	2478
2424	25	2452	39	2480
2426	26	2454		
2428	27	2456	HIM TESTA	G CIP
	(MHz) 2402 2404 2406 2408 2410 2412 2414 2416 2418 2420 2422 2424 2426	Frequency (MHz) 2402 14 2404 15 2406 16 2408 17 2410 18 2412 19 2414 20 2416 21 2418 22 2420 23 2422 24 2424 25 2426 26	(MHz) Channel (MHz) 2402 14 2430 2404 15 2432 2406 16 2434 2408 17 2436 2410 18 2438 2412 19 2440 2414 20 2442 2416 21 2444 2418 22 2446 2420 23 2448 2422 24 2450 2424 25 2452 2426 26 2454	Frequency (MHz) Channel Frequency (MHz) Channel 2402 14 2430 28 2404 15 2432 29 2406 16 2434 30 2408 17 2436 31 2410 18 2438 32 2412 19 2440 33 2414 20 2442 34 2416 21 2444 35 2418 22 2446 36 2420 23 2448 37 2422 24 2450 38 2424 25 2452 39 2426 26 2454 2454

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.

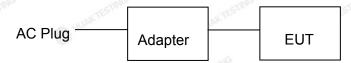
- (2) Frequency range of radiated measurements:
 The test range will be up to the tenth harmonic of the highest fundamental frequency.
- (3) Pre-test the EUT in all transmitting mode at the lowest (2402 MHz), middle (2440 MHz) and highest (2480 MHz) channel with different data packet and conducted to 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%.

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2.3 DESCRIPTION OF TEST SETUP

Operation of EUT during conducted testing and radiation below 1GHz testing:



Operation of EUT during radiation above 1GHz testing:

EUT

Adapter information

Model: HW-059200CHQ

Input: 100-240V, 50/60Hz, 0.5A

Output: 5VDC, 2A

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.

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EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
TESTING 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	¹1 Year

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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. 09, 2021	3 Year

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ATIO

Report No.: HK2210254712-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.

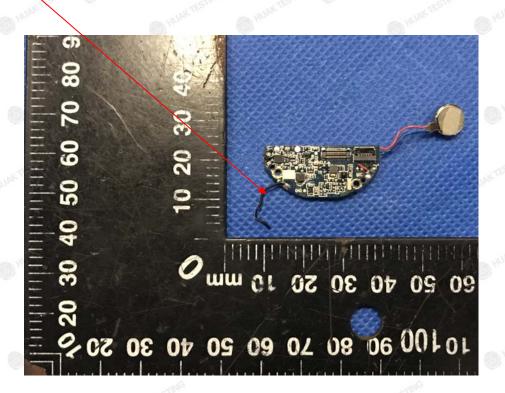
Refer to statement below for compliance.

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 Internal antenna, need professional installation, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 1.77dBi.

4.1.2 EUT Antenna



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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:

AKTESTING - HU	AN TESTINE	Limit (d	lBuV)
Frequency	range (MHz)	Quasi-peak	Average
0.1	5-0.5	66 to 56*	56 to 46*
HUANTED O	.5-5	56	46
5	5-30 ₃₇₋₁₆ 5 ^{(10)G}	60	50

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

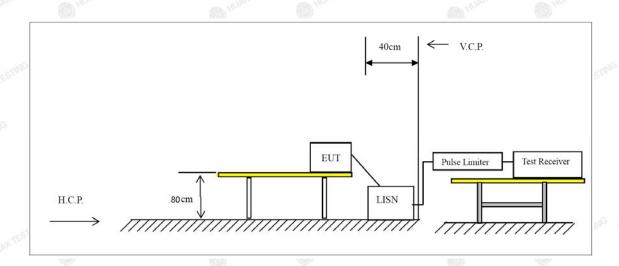
4.2.2 Test procedure

- 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.
- 3. 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.

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4.2.3 Test setup

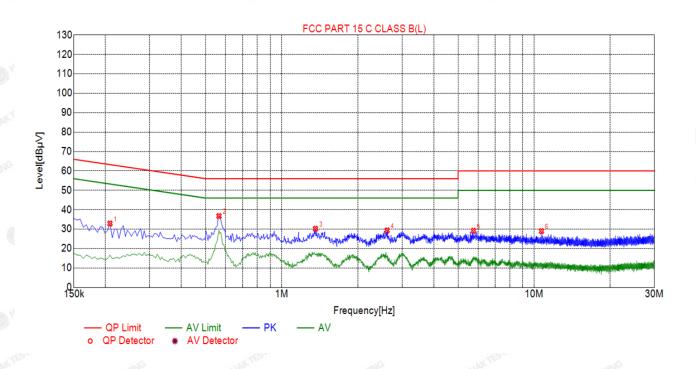


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4.2.4 Test results

Test Specification: Line



Sus	Suspected List											
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре				
1	0.2085	32.91	20.04	63.26	30.35	12.87	PK	L				
2	0.5640	36.75	20.06	56.00	19.25	16.69	PK	L				
3	1.3605	30.21	20.11	56.00	25.79	10.10	PK	L				
4	2.6160	29.36	20.21	56.00	26.64	9.15	PK	L				
5	5.7525	29.18	20.24	60.00	30.82	8.94	PK	L				
6	10.6980	28.99	20.03	60.00	31.01	8.96	PK	L				

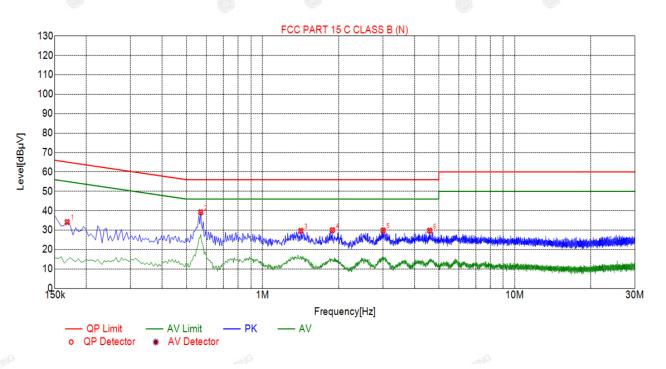
Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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Test Specification: Neutral



Sus	spected	List						
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.1680	34.15	20.01	65.06	30.91	14.14	PK	N
2	0.5685	39.24	20.05	56.00	16.76	19.19	PK	N
3	1.4190	29.69	20.11	56.00	26.31	9.58	PK	N
4	1.8915	30.00	20.14	56.00	26.00	9.86	PK	N
5	3.0075	29.82	20.22	56.00	26.18	9.60	PK	N
6	4.6005	29.78	20.25	56.00	26.22	9.53	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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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.

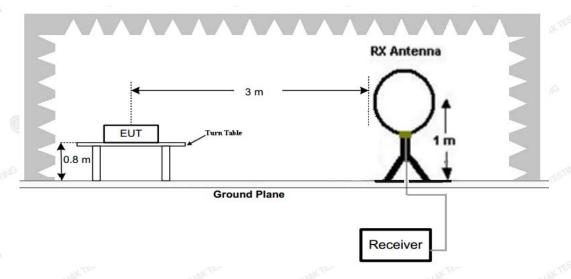
Radiated emission limits

	2502,000,0		THE PARTY OF THE P	Programme and the second
	Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
Ī	0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
Ī	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
Ī	30-88	3	40.0	100
S (88-216	3 STING	43.5	150
	216-960	W 3	46.0	200
	Above 960	3	54.0	500
_				

4.3.2 Test setup

Test Configuration:

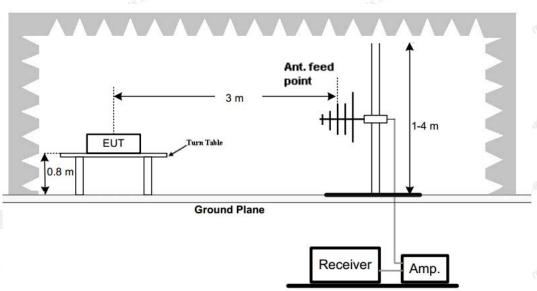
1) 9 kHz to 30 MHz emissions:



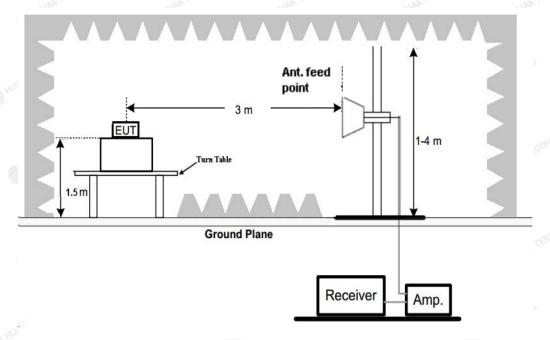
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3) 1 GHz to 25 GHz emissions:



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.
- 4. Repeat above procedures until all frequency measurements have been completed.

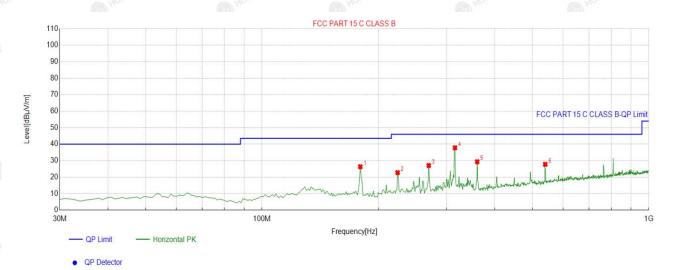
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4.3.3 Test Result

Below 1GHz Test Results:

Antenna polarity: H

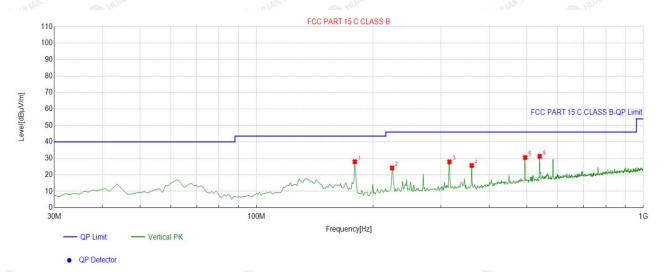


		-								
1	Suspe	cted List								
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Dalarit
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	179.5295	-17.06	43.37	26.31	43.50	17.19	100	91	Horizontal
	2	224.1942	-13.86	36.59	22.73	46.00	23.27	100	285	Horizontal
	3	269.8298	-12.40	39.46	27.06	46.00	18.94	100	75	Horizontal
	4	315.4655	-11.45	49.24	37.79	46.00	8.21	100	12	Horizontal
	5	360.1301	-10.69	40.01	29.32	46.00	16.68	100	179	Horizontal
	6	539.7598	-6.31	34.07	27.76	46.00	18.24	100	264	Horizontal

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

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Antenna polarity: V



	-								
Suspe	ected List								
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	179.5295	-17.06	45.03	27.97	43.50	15.53	100	169	Vertical
2	224.1942	-13.86	38.03	24.17	46.00	21.83	100	105	Vertical
3	315.4655	-11.45	39.33	27.88	46.00	18.12	100	97	Vertical
4	360.1301	-10.69	36.34	25.65	46.00	20.35	100	346	Vertical
5	495.0951	-6.92	37.42	30.50	46.00	15.50	100	180	Vertical
6	539.7598	-6.31	37.53	31.22	46.00	14.78	100	217	Vertical

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

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

 100.00	1001017	103/27	103327	1000.00	
Frequency (I	MHz)	Level@3m (dBµV/	/m) L	imit@3m (dBµV/r	n)
mG.	CAK	STILL THE	. AKTESTIN		3
MAKTES!	0	WAKTES!	(D)	- WAKTEST	
.	, iG	O	anG.	(a)	
	N TESTI		NK (ESTITE		

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.

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For 1GHz to 25GHz

CH Low (2402MHz)

Horizontal:

	aDr	- 401	- 401	and the second s	101	- 40'
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detecto Type
4804	51.02	-3.65	47.37	74.00	-26.63	peak
4804	39.65	-3.65	36.00	54.00	-18.00	AVG
7206	50.13	-0.95	49.18	74.00	-24.82	peak
7206	39.77	-0.95	38.82	54.00	-15.18	AVG

Vertical:

requency	Meter Reading	Factor	Emission Level	Limits	Margin	Detecto
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4804	53.85	-3.65	50.20	74.00	-23.80	peak
4804	41.52	-3.65	37.87	54.00	-16.13	AVG
7206	48.66	-0.95	47.71	74.00	-26.29	peak
7206	39.06	-0.95	38.11	54.00	-15.89	AVG

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CH Middle (2440MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detecto
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4880.00	58.22	-3.54	54.68	74.00	-19.32	peak
4880.00	45.78	-3.54	42.24	54.00	-11.76	AVG
7320.00	51.64	-0.81	50.83	74.00	-23.17	peak
7320.00	37.44	-0.81	36.63	54.00	-17.37	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotooto
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detecto Type
4880.00	53.21	-3.54	49.67	74.00	-24.33	peak
4880.00	44.76	-3.54	41.22	54.00	-12.78	AVG
7320.00	50.31	-0.81	49.50	74.00	-24.50	peak
7320.00	40.15	-0.81	39.34	54.00	-14.66	AVG

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



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CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4960	53.66	-3.43	50.23	74.00	-23.77	peak
4960	41.58	-3.44	38.14	54.00	-15.86	AVG
7440	47.12	-0.77	46.35	74.00	-27.65	peak
7440	38.51	-0.77	37.74	54.00	-16.26	AVG
TING	TESTING		ss – Pre-amplifier.	W	TESTING	7110

Vertical:

	The state of the s			Mar.	- Alle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4960	54.88	-3.43	51.45	74.00	-22.55	peak
4960	45.61	-3.44	42.17	54.00	-11.83	AVG
7440	49.73	-0.77	48.96	74.00	-25.04	peak
7440	40.25	-0.77	39.48	54.00	-14.52	AVG

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

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 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.



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Radiated Band Edge Test:

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case):

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detecto
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310.00	56.57	-5.81	50.76	74	-23.24	peak
2310.00	/	-5.81	1	54	1	AVG
2390.00	55.68	-5.84	49.84	74	-24.16	peak
2390.00	/	-5.84	9	54	1	AVG
2400.00	53.26	-5.84	47.42	74	-26.58	peak
2400.00	AK TESTING	-5.84	51000 / 15	54	K TESTING	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	55.14	-5.81	49.33	74	-24.67	peak
2310.00	I THE	-5.81	NG 1	54	TESTIVE .	AVG
2390.00	54.49	-5.84	48.65	74	-25.35	peak
2390.00	1	-5.84	1	54	STING /	AVG
2400.00	53.16	-5.84	47.32	74	-26.68	peak
2400.00	1	-5.84	· /	54	1 (1)	AVG

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JAY TESTING

Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

EST	MAK TESTILL	- AKTES		1	N. TESTILL	N. TES
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	56.22	-5.81	50.41	74 HUMET	-23.59	peak
2483.50	/	-5.81	O WA	54	1	AVG
2500.00	55.26	-6.06	49.2	74	-24.8	peak
2500.00	HUMA TESTING	-6.06	ESTING / HUAKTES	54	LAX TEXTING	AVG

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
2483.50	55.54	-5.81	49.73	74 TESTING	-24.27	peak
2483.50	ISME OF	-5.81	TING /	54	TING	AVG
2500.00	55.16	-6.06	49.1	74	-24.9	peak
2500.00	1	-6.06	1	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.

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4.4 MAXIMUM OUTPUT POWER MEASUREMENT

4.4.1 Limit

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 Test procedure

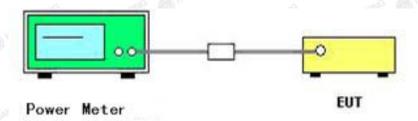
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

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	4.03	O HOM	Pass
Middle	2440	4.28	30	Pass
High	2480	4.04	WAKTESTING	Pass

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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

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4.5.5 Test results

Channel	Channel frequency (MHz)	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
Low	2402	-4.51	0,,,,	Pass
Middle	2440	-5.11	8.00	Pass
High	2480	-4.24	HUAKIL	Pass

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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=300KHz. 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	0.696	TING	Pass
Middle	2440	0.712	≥500	Pass
High	2480	0.656		Pass

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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

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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

- 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 ≥ 1% of the span, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold

4.8.3 Deviation from standard

No deviation.

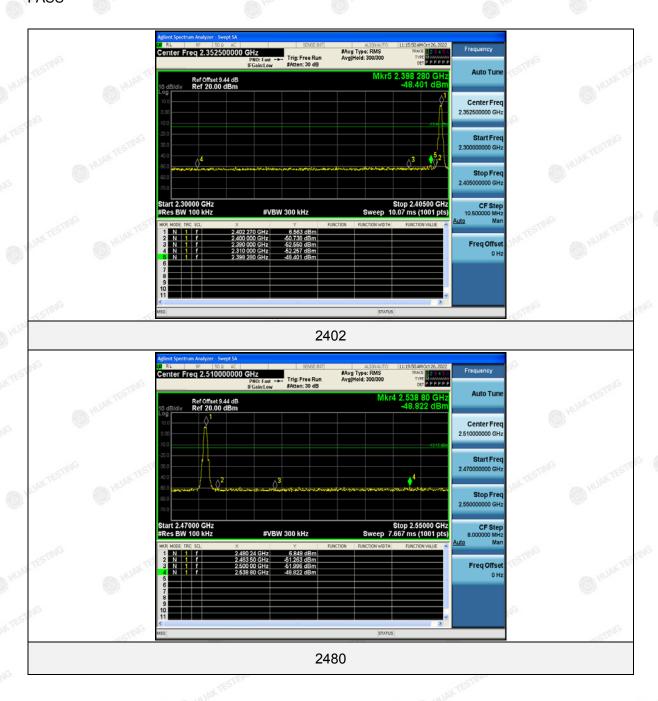
4.8.4 Test setup



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4.8.5 Test results

PASS



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Report No.: HK2210254712-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

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

emission level-20-10log(100/1)= the highest emission level-40.

4.9.3 Deviation from standard

No deviation.

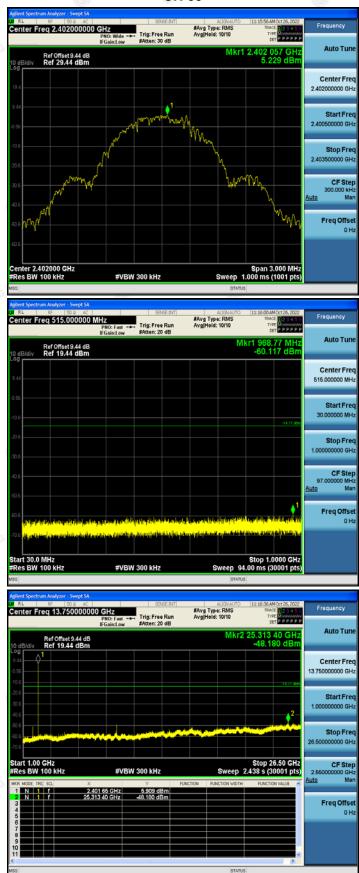
4.9.4 Test setup



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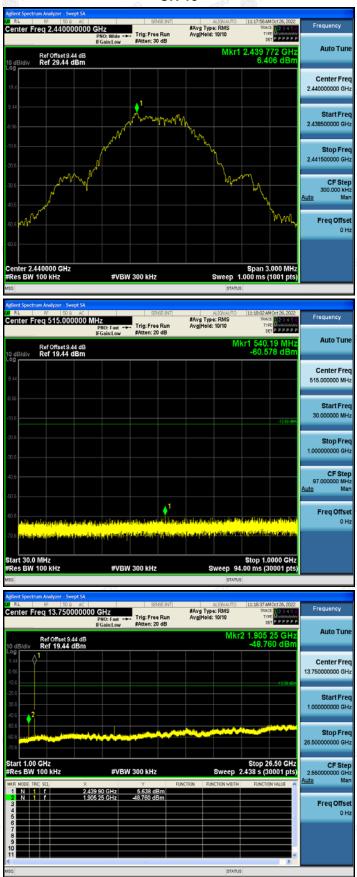
4.9.5 Test results

CH 00



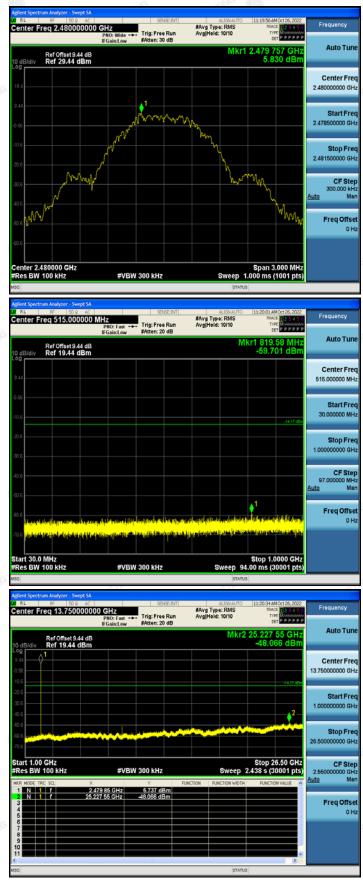
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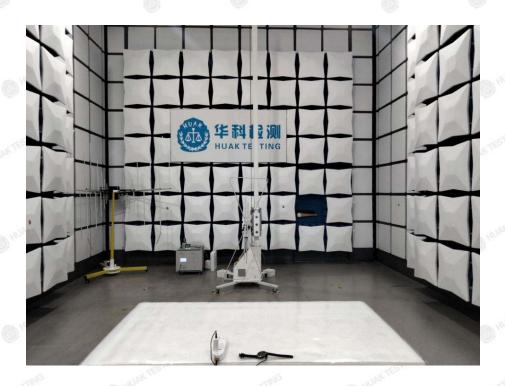
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CH 39



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Radiated Emissions





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Conducted Emission



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

End of test report

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