

FCC TEST REPORT

Test report
On Behalf of
Wuhan Tianyu Information Industry Co., Ltd.
For
Smart Mobile Terminal
Model No.: S30
FCC ID: 2ALKI-S30

Prepared For: Wuhan Tianyu Information Industry Co., Ltd.

HUST Industry Park, East-Lake Development Zone, Wuhan 430223, Hubei, China

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

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

Date of Test: Nov. 25, 2021 ~ Dec. 08, 2021

Date of Report: Dec. 08, 2021

Report Number: HK2111254568-2E



TEST RESULT CERTIFICATION

Applicant's name	Wuhan T	Γianyu Informat	ion Industr	y Co., Ltd
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HUST Industry Park, East-Lake Development Zone, Wuhan

430223. Hubei, China

Manufacture's Name...... Shenzhen Eternity Technology Co.,Ltd

1F,2F,4F Building A2, Yingzhan Industrial Zone, Longtian

Report No.: HK2111254568-2E

Address Community, Longtian Road, Pingshan District, Shenzhen,

Guangdong Province, P.R. China

Product description

Trade Mark: N/A

Product name Smart Mobile Terminal

Model and/or type reference .: S30

FCC Rules and Regulations Part 15 Subpart C Section 15.225

Standards ANSI C63.10: 2013

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Date of Test

Date of Issue Dec. 08, 2021

Test Result..... Pass

Testing Engineer :

(Gary Qian)

Technical Manager

en thu

(Eden Hu)

Authorized Signatory:

Jason Hou

(Jason Zhou)



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** Modified History **

Revision	Description	Issued Data	Remark		
Revision 1.0	Initial Test Report Release	Dec. 08, 2021	Jason Zhou		
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NO.	Mary Mary	HO.	HOW		

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1. TEST RESULT SUMMARY

Requirement	CFR 47 Section	Result		
Conduction Emission, 0.15MHz to 30MHz	§15.207	PASS		
Radiation Emission	§15.225, §15.205, §15.209, §15.35	PASS		
Occupied Bandwidth	§ 15.215	PASS		
Antenna requirement	§ 15.203	PASS		
Frequency stability	§ 15.225	PASS		

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

1.1. 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.

1.2. 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



2. EUT DESCRIPTION

Equipment:	Smart Mobile Terminal	O HUAN	O HUAN
Model Name:	S30	LAK TESTING	_{an} yG
Series Model:	N/A N/A		MAKTES.
Model Difference:	N/A	HUAKTESTINE	. O
FCC ID:	2ALKI-S30	- WANTESTI	HUAKTESTI
Antenna Type:	Internal Antenna		
Antenna Gain:	1dBi	anG .	m/G
Operation frequency:	13.56MHz	HUAKTES	HUAKTES
Modulation Type:	ASK	TING	
Power Source:	DC5V From Type-C or DC	7.4V From Batter	y ak TESTING
Power Rating:	DC5V From Type-C or DC	7.4V From Batter	y

FICATION.

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3. GENERA INFORMATION

3.1. TEST ENVIRONMENT AND MODE

24.0 °C
54 % RH
1010 mbar
Keep the EUT in continuous transmitting with modulation

The sample was placed (0.8m below 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.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z HUAKTESTILL Z HUAKTES!
Field Strength(dBuV/m)	62.47	65.62	62.59

Final Test Mode:

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo)

3.2. 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
1	1	1	1	1

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.

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4. TEST RESULTS AND MEASUREMENT DATA

4.1. ANTENNA REQUIREMENT

Standard requirement: FCC Part15 C Section 15.203

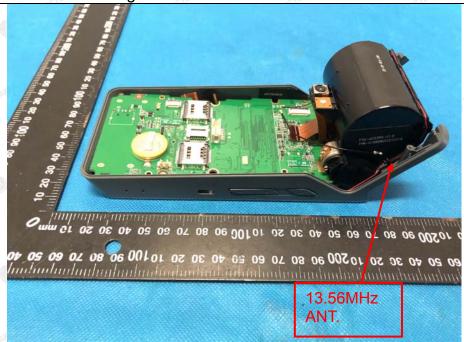
15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

E.U.T Antenna:

Internal Antenna

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 1dBi.





4.2. CONDUCTED EMISSION

4.2.1. Conducted Power Line Emission Limit

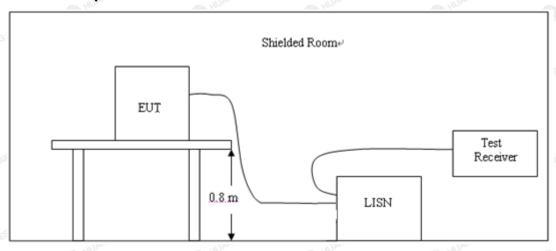
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following.

F	M	aximum RF Li	ine Voltage (d	BμV)	
Frequency (MHz)	CLAS	SS A	CLASS B		
(11112)			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.

4.2.2. Test Setup

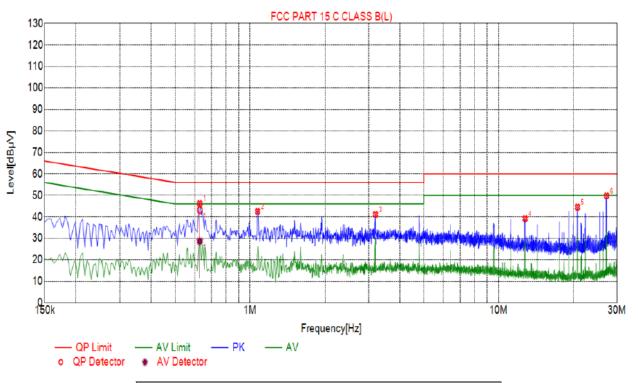


4.2.3. Test Procedure

- 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.



4.2.4. Test Result



Sus	Suspected List										
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре			
1	0.6270	46.21	20.05	56.00	9.79	26.16	PK	L			
2	1.0725	42.53	20.07	56.00	13.47	22.46	PK	L			
3	3.1965	41.13	20.23	56.00	14.87	20.90	PK	L			
4	12.7995	39.21	19.97	60.00	20.79	19.24	PK	L			
5	20.7690	44.56	20.13	60.00	15.44	24.43	PK	L			
6	27.1950	49.83	20.26	60.00	10.17	29.57	PK	L			

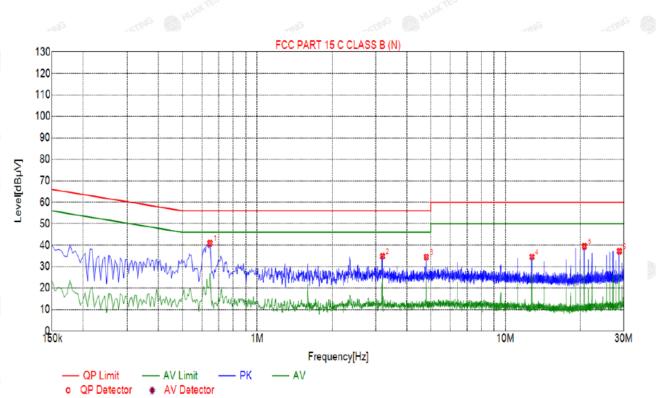
Final Data List											
NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	QP Reading [dBμV]	ΑV Value [dBμV]	ΑV Limit [dBμV]	AV Margin [dB]	ΑV Reading [dBμV]	Туре
1	0.6272	20.05	43.18	56.00	12.82	23.13	28.71	46.00	17.29	8.66	L

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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1	Suspected List									
5	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
	1	0.6450	40.97	20.05	56.00	15.03	20.92	PK	N	
Secondary.	2	3.1965	34.92	20.23	56.00	21.08	14.69	PK	N	
	3	4.7985	34.46	20.26	56.00	21.54	14.20	PK	N	
	4	12.7950	34.56	19.97	60.00	25.44	14.59	PK	N	
Ą	5	20.7915	39.48	20.13	60.00	20.52	19.35	PK	N	
<	6	28.7745	37.23	20.26	60.00	22.77	16.97	PK	N	

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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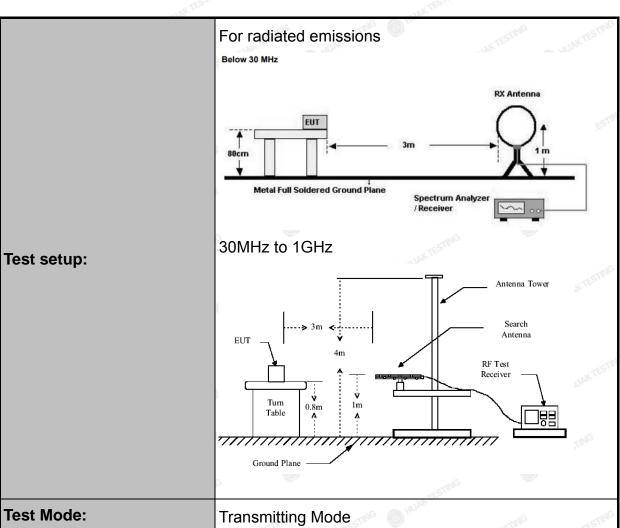
4.3. RADIATED EMISSION MEASUREMENT

4.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.225(a) and 15.209							
Test Method:	ANSI C63.10):2013	6	J.G				
Frequency Range:	9 kHz to 1 G	9 kHz to 1 GHz						
Measurement Distance:	3 m	JAKTE			HUAKTE			
Antenna Polarization:	Horizontal &	Vertical						
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-peak Quasi-peak	RBW 200Hz 9kHz	VBW 1kHz 30kHz	Remark Quasi-peak Value Quasi-peak Value			
	1	Quasi-peak	120KHz	300KHz	Quasi-peak Value			
	Frequency Detector RBW VBW Remark 9kHz- 150kHz Quasi-peak 200Hz 1kHz Quasi-peak Valu 150kHz- 30MHz Quasi-peak 9kHz 30kHz Quasi-peak Valu							

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4.3.2. Limit

Test results:

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15.848 microvolts/meter at 30 meters.

PASS

- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.



4.3.3. Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)	Field strength (microvolts/meter)
0.009-0.490	300	20log 2400/F (kHz)	2400/F (kHz)
0.490-1.705	30	20log 24000/F (kHz)	24000/F (kHz)
1.705-30	30	20log 30	30
30-88	3	40.0	100**
88-216	3	43.5	150**
216-960	3	46.0	200**
Above 960	3	54.0	500

NOTE:

4.3.4. Test Instruments

Radiated Emission Test Site (966)								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
ESPI Test Receiver	ROHDE&SCHWARZ	ESVD	100008	Dec. 09, 2021				
Spectrum Analyzer	ROHDE&SCHWARZ	FSEM	848597/001	Dec. 09, 2021				
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Dec. 09, 2021				
Pre-amplifier	HP	8447D	2727A05017	Dec. 09, 2021				
Loop antenna	ZHINAN	ZN30900A	12024	Dec. 09, 2021				
Broadband Antenna	Schwarzbeck	VULB9163	340	Dec. 09, 2021				
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Dec. 09, 2021				
Coax cable	HUAK	N/A	N/A	Dec. 09, 2021				
Coax cable	HUAK	N/A	N/A	Dec. 09, 2021				
Coax cable	HUAK	N/A	N/A	Dec. 09, 2021				
Coax cable	HUAK	N/A	N/A	Dec. 09, 2021				
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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^{**}Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., S 15.231 and 15.241.

4.3.5. Test Data

PASS

Note: this EUT was tested for all models and the worst case model (DC 5V) data was reported.

Field Strength of Fundamental

Frequency (MHz)	Reading (dBuV/m)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar (H/V)	Detector
13.21	45.78	15.82	61.6	80.51	-18.91	H	QP
13.21	45.58	15.82	61.4	80.51	-19.11	V	QP
13.85	48.73	15.82	64.55	80.51	-15.96	KTESTH	QP
13.85	47.55	15.82	63.37	80.51	-17.14	V	QP
13.56	84.14	12.33	96.47	124	-27.53	Н	Peak
13.56	83.68	12.33	96.01	124	-27.99	V	Peak
13.45	52.36	15.82	68.18	90.47	-22.29	Н	QP
13.45	49.07	15.82	64.89	90.47	-25.58	V	QP
13.62	49.53	15.82	65.35	90.47	-25.12	Н	QP
13.62	46.96	15.82	62.78	90.47	-27.69	V	QP

Remark: Margin = Result - Limit

Result = Reading +Correction Factor

Correction Factor = Antenna Factor + Cable Factor

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequen	cy (MHz)	Level@3m (dBµV/m)	Limit@	3m (dBµV/m)
THA!	K.Leo.	Way K The		WAKTES
		₩.C	.n.G	
	JAKTES		AKTEST	
TING	STING HO	THE STING		TING STIN

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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About 30MHz-1GHz

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Remark:

Margin = Limit - Level

Level=Test receiver reading + correction factor

Horizontal



QP Detector

Suspe	Suspected List								
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	112.5325	-15.85	32.34	16.49	43.50	27.01	100	251	Horizontal
2	207.6877	-14.86	38.77	23.91	43.50	19.59	100	278	Horizontal
3	255.2653	-13.46	40.26	26.80	46.00	19.20	100	309	Horizontal
4	283.4234	-13.11	47.29	34.18	46.00	11.82	100	186	Horizontal
5	422.2723	-9.99	33.14	23.15	46.00	22.85	100	225	Horizontal
6	669.8699	-4.57	30.08	25.51	46.00	20.49	100	189	Horizontal

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

Vertical



QP Detector

Susp	Suspected List								
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	34.8549	-16.15	45.16	29.01	40.00	10.99	100	158	Vertical
2	73.6937	-18.33	46.85	28.52	40.00	11.48	100	91	Vertical
3	125.1552	-17.86	45.20	27.34	43.50	16.16	100	71	Vertical
4	254.2943	-13.45	41.25	27.80	46.00	18.20	100	230	Vertical
5	284.3944	-13.07	41.14	28.07	46.00	17.93	100	18	Vertical
6	490.2402	-8.54	32.06	23.52	46.00	22.48	100	313	Vertical

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

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4.4. OCCUPIED BANDWIDTH

4.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	N/A
	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW ≥ 1% of the 20 dB bandwidth; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test setup:	Attenuator Spectrum Analyzer EUT
Test Mode:	Transmitting Mode
Test results:	PASS O WILLIAM O

4.4.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Dec. 09, 2021			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





4.4.3. Test data

Test Channel (MHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion	
13.56	2.695	N/A	PASS	

Test plots as follows:





4.5. FREQUENCY STABILITY

4.5.1. Test Specification

-61"	
Test Requirement:	FCC Part15 C Section 15.225
Test Method:	ANSI C63.10: 2013
Limit:	+/-0.01%
	 The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a spectrum analyzer. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting Mode
Test results:	PASS THE TEST THE TRANSPORT OF THE TEST THE TRANSPORT OF THE TRANSPORT OF THE TRANSPORT OF THE TEST THE TEST THE TEST THE TRANSPORT OF THE TEST THE TRANSPORT OF THE TEST THE TRANSPORT OF THE TEST THE TEST THE TRANSPORT OF THE TEST TH



4.5.2. Test Data

PASS

Note: this EUT was tested for all models and the worst case model (DC 5V) data was reported.

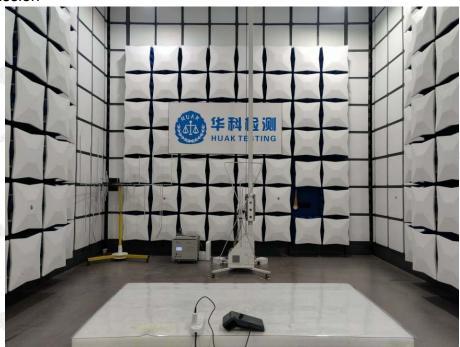
Voltage (Vdc)	Temperature (°C)	Frequency (MHz)	Deviation (%)	Limit (%)
5	-20	13.559647	-0.26032%	HUNKTEST
5	-10	13.560166	0.12242%	
5	TIME WIND	13.560102	0.07522%	CTING (1)
HUMET 5	10	13.560536	0.39528%	HUAKTES
5	20	13.560114	0.08407%	
5	30	13.560189	0.13938%	,1G
HUAK TES 1 5	40 HANTES 11	13.560224	0.16519%	WAK TESTING
5	50	13.560739	0.54499%	(B) \(\)
4.25	-20	13.560388	0.28614%	-mG
4.25	-10	13.560217	0.16003%	HUMTESTI
4.25	O ZESTING	13.560128	0.09440%	
4.25	10	13.560334	0.24631%	. / 0 040/
4.25	20	13.560406	0.29941%	+/-0.01%
4.25	30	13.560177	0.13053%	
4.25	40	13.560261	0.19248%	.n/G
4.25	50 mm (15)	13.560452	0.33333%	HUAKTESTING
5.75	-20	13.559687	-0.23083%	9
5.75	-10	13.560163	0.12021%	TING
5.75	0	13.560167	0.12316%	AUR TEST
5.75	10	13.560241	0.17773%	
5.75	20	13.560129	0.09513%	STING ()
5.75	30	13.560267	0.19690%	HUAKTE
5.75	40	13.560433	0.31932%	
5.75	50	13.560121	0.08923%	-16

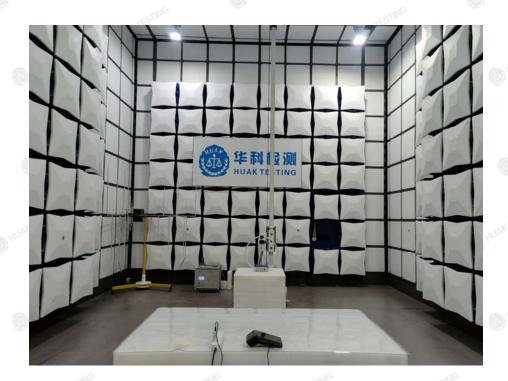
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5. APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Radiated Emission





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Conducted Emission





6. APPENDIX B: PHOTOS OF THE EUT

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

-----End of test report-----

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