FCC Test Report

Test Report
On Behalf of
Suzhou Fanxi Technology Co., Ltd.
For
QR Code Scanner
Model No.: FC7769, FC7769-BXEN-GC, FC7769-BXEN-04-GC, FC7769-BXEN-05-GC, FC7769-BXEX-GC, FC7769-BXEX-02-GC, FC7769-BXEX-03-GC, FC7780-EPWM-GC, MJ-FC7769-BXEN-GC, MJ-FC7769-BXEX-GC, FC7769-01, FC7769-02, FC7769-03, FC7769-04, FC7769-05

FCC ID: 2BPI7-FC7769

Prepared For:	**Suzhou Fanxi Technology Co., Ltd.** **Room 101-3, Building 40, No.666, Jianlin Road, High-tech Zone, Suzhou, Jiangsu, 215000, 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:	**Sept. 15, 2025 ~ Sept. 26, 2025**
Date of Report:	**Sept. 26, 2025**
Report Number:	**HK2509155258-E**

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Test Result Certification

Applicant's Name.....:	Suzhou Fanxi Technology Co., Ltd.
Address .....:	Room 101-3, Building 40, No.666, Jianlin Road, High-tech Zone, Suzhou, Jiangsu, 215000, China
Manufacturer's Name .....:	Suzhou Fanxi Technology Co., Ltd.
Address .....:	Room 101-3, Building 40, No.666, Jianlin Road, High-tech Zone, Suzhou, Jiangsu, 215000, China
Product Description	
Trade Mark .....:	N/A
Product Name.....:	QR Code Scanner
Model and/or Type Reference :	FC7769, FC7769-BXEN-GC, FC7769-BXEN-04-GC, FC7769-BXEN-05-GC, FC7769-BXEX-GC, FC7769-BXEX-02-GC, FC7769-BXEX-03-GC, FC7780-EPWM-GC, MJ-FC7769-BXEN-GC, MJ-FC7769-BXEX-GC, FC7769-01, FC7769-02, FC7769-03, FC7769-04, FC7769-05
Standards .....:	FCC Rules and Regulations Part 15 Subpart C Section 15.225 ANSI C63.10: 2020

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Date of Test .....:	
Date (s) of Performance of Tests .....:	**Sept. 15, 2025 ~ Sept. 26, 2025**
Date of Issue.....:	**Sept. 26, 2025**
Test Result.....:	**Pass**

Testing Engineer

Len Liao

Technical Manager

Sliver Wan

Authorized Signatory

Jason Zhou

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Table of Contents

1. Test Result Summary 5
1.1 Information of the Test Laboratory 5
1.2 Measurement Uncertainty 5
2. EUT Description 6
3. General Information 7
3.1 Test Environment and Mode 7
3.2 Description of Test Setup 8
3.3 Description of Support Units 9
3.4 Equipments List for All Test Items 10
4. Test Results and Measurement Data 11
4.1 Antenna Requirement 11
4.2 AC Conducted Emission 12
4.3 Radiated Emission Measurement 14
4.4 Occupied Bandwidth 20
4.5 Frequency Stability 22
5. Photographs of Test Setup 24
6. Photos of the EUT 26

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** Issued History **

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	Sept. 26, 2025	Jason Zhou

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1. Test Result Summary

Requirement	CFR 47 Section	Result
AC Conduction Emission, 0.15MHz to 30MHz	§15.207	N/A
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

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

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2. EUT Description

Equipment:	QR Code Scanner
Model Name:	FC7769
Series Model(s):	FC7769-BXEN-GC, FC7769-BXEN-04-GC, FC7769-BXEN-05-GC, FC7769-BXEX-GC, FC7769-BXEX-02-GC, FC7769-BXEX-03-GC, FC7780-EPWM-GC, MJ-FC7769-BXEN-GC, MJ-FC7769-BXEX-GC, FC7769-01, FC7769-02, FC7769-03, FC7769-04, FC7769-05
Model Difference:	All model's the function, software and electric circuit are the same, only with product model named different. Test sample model: FC7769.
FCC ID:	2BPI7-FC7769
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Power Source:	DC 9-15V
Power Rating:	DC 9-15V
Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain Refer to the antenna specifications. 3. The cable loss data is obtained from the supplier. 4. The test results in the report only apply to the tested sample.	

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3. General Information

3.1 Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation

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
Field Strength(dBuV/m)	64.18	90.37	69.03

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)

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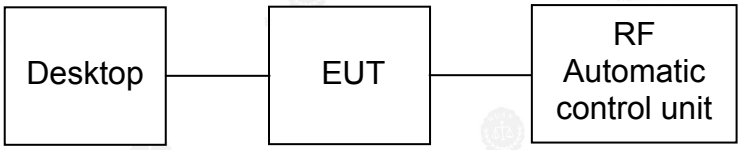
3.2 Description of Test Setup

Operation of EUT during Radiation testing:

Operation of EUT during RF Conducted testing:



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. The worst case is X position.

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3.3 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.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Remark
1	QR Code Scanner	N/A	FC7769	N/A	EUT
2	Router	N/A	N/A	N/A	Peripheral

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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3.4 Equipments List for All Test Items

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 19, 2025	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-002	Feb. 19, 2025	1 Year
3.	L.I.S.N.	R&S	ENV216	HKE-059	Feb. 19, 2025	1 Year
4.	EMI Test Receiver	R&S	ESR	HKE-005	Feb. 19, 2025	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-117	Feb. 19, 2025	1 Year
6.	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025	1 Year
7.	Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 19, 2025	1 Year
8.	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025	1 Year
9.	Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025	1 Year
10.	6dB Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025	1 Year
11.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025	1 Year
12.	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	2 Year
13.	Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	2 Year
14.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	2 Year
15.	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
16.	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
17.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 19, 2025	1 Year
18.	RF Automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 19, 2025	1 Year

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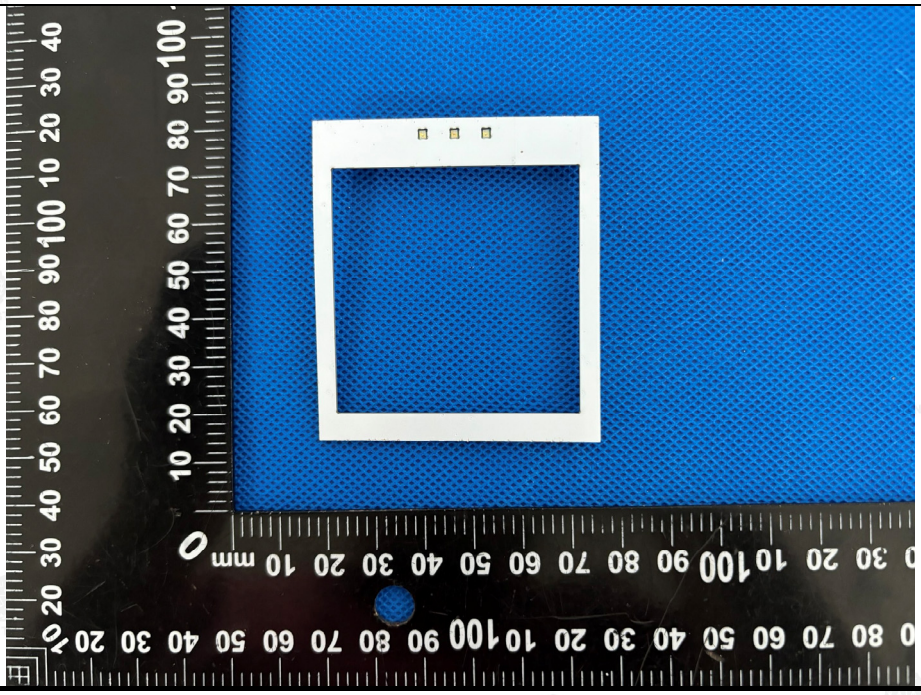
4. Test Results and Measurement Data

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:	PCB antenna



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4.2 AC Conducted Emission

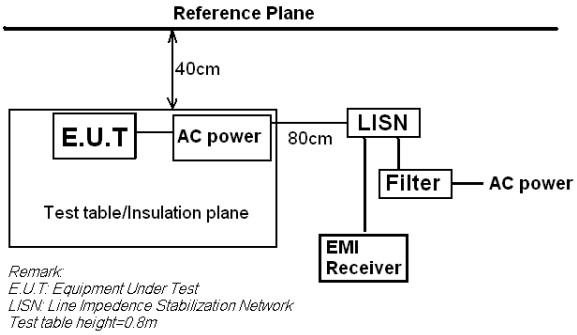
4.2.1 Conducted Power Line Emission Limit

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

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

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

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.

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4.2.4 Test Result

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

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4.3 Radiated Emission Measurement

4.3.1 Test Specification

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.225(a) and 15.209</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10: 2020</td></tr>
<tr><td>Frequency Range:</td><td>9 kHz to 1 GHz</td></tr>
<tr><td>Measurement Distance:</td><td>3 m</td></tr>
<tr><td>Antenna Polarization:</td><td>Horizontal & Vertical</td></tr>
<tr><td>Receiver Setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr>
<tr><td>9kHz- 150kHz</td><td>Quasi-peak</td><td>200Hz</td><td>1kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>150kHz-30MHz</td><td>Quasi-peak</td><td>9kHz</td><td>30kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
</table>
</td></tr>
<tr><td></td><td>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber in below 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</td></tr>
</table>

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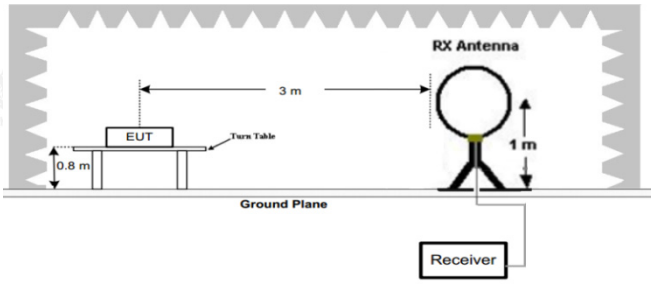
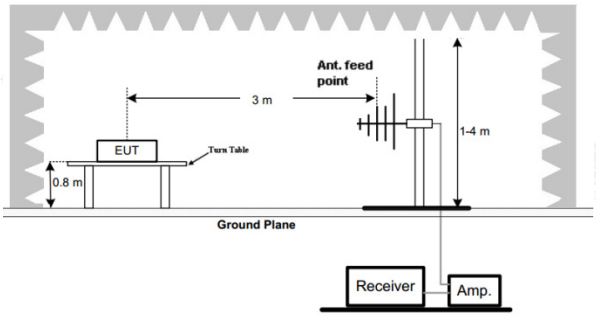
Test Setup:	For radiated emissions  30MHz to 1GHz 
Test Mode:	Transmitting Mode
Test Results:	PASS

4.3.2 Limit

(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.
(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.

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

Frequency Range (MHz)	Distance (m)	Field strength (dB μV/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:
**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.

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4.3.4 Test Data

PASS

Note: this EUT was tested for all models and the worst case model 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	45.12	15.82	60.94	80.51	19.57	H	QP
13.21	46.33	15.82	62.15	80.51	18.36	V	QP
13.85	47.25	15.82	63.07	80.51	17.44	H	QP
13.85	48.36	15.82	64.18	80.51	16.33	V	QP
13.56	78.04	12.33	90.37	124	33.63	H	Peak
13.56	77.36	12.33	89.69	124	34.31	V	Peak
13.45	53.21	15.82	69.03	90.47	21.44	H	QP
13.45	52.31	15.82	68.13	90.47	22.34	V	QP
13.62	46.17	15.82	61.99	90.47	28.48	H	QP
13.62	45.23	15.82	61.05	90.47	29.42	V	QP

Remark: Margin = Limit - Result

Result = Reading + Correction Factor

Correction Factor = Antenna Factor + Cable Factor

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
--	--	--
--	--	--
--	--	--
--	--	--

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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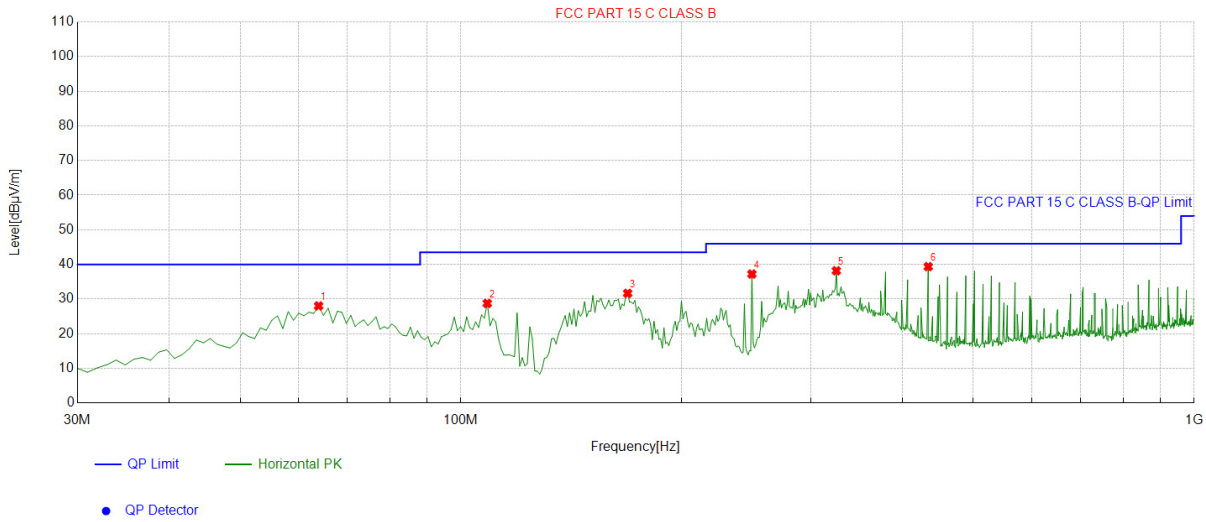
About 30MHz-1GHz

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

Antenna polarity: Horizontal



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.9840	-14.38	42.41	28.03	40.00	11.97	100	351	Horizontal
2	108.6486	-14.02	42.78	28.76	43.50	14.74	100	214	Horizontal
3	168.8488	-17.23	48.89	31.66	43.50	11.84	100	297	Horizontal
4	249.4394	-13.41	50.64	37.23	46.00	8.77	100	124	Horizontal
5	325.1752	-11.00	49.18	38.18	46.00	7.82	100	333	Horizontal
6	433.9239	-8.98	48.35	39.37	46.00	6.63	100	333	Horizontal

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

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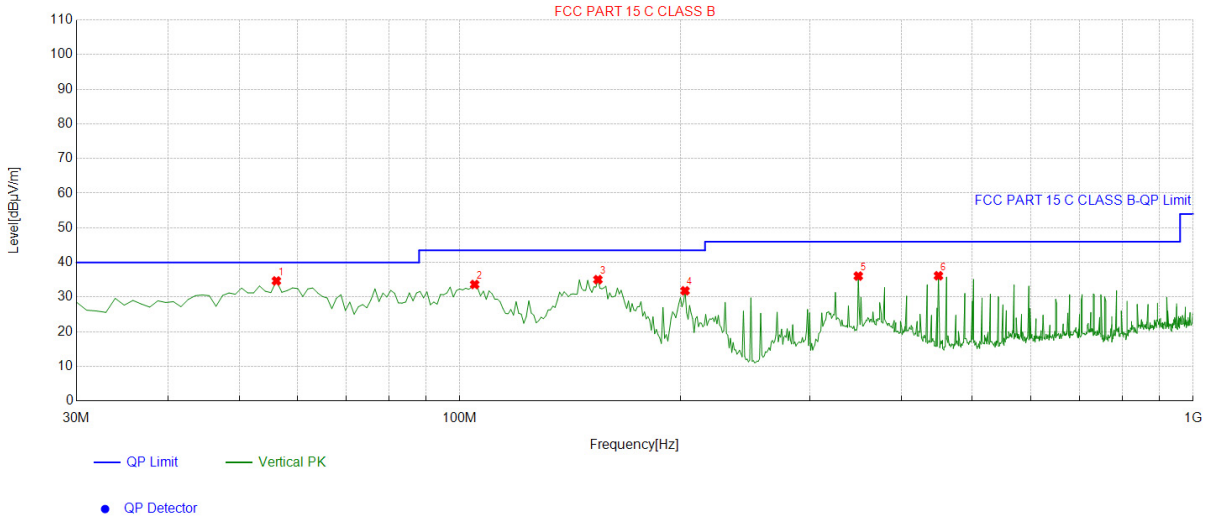
Antenna polarity: Vertical



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	56.2162	-13.94	48.61	34.67	40.00	5.33	100	2	Vertical
2	104.7648	-14.69	48.33	33.64	43.50	9.86	100	79	Vertical
3	154.2843	-17.76	52.80	35.04	43.50	8.46	100	39	Vertical
4	202.8328	-15.23	47.05	31.82	43.50	11.68	100	28	Vertical
5	349.4494	-10.04	46.11	36.07	46.00	9.93	100	28	Vertical
6	449.4595	-8.78	44.94	36.16	46.00	9.84	100	2	Vertical

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

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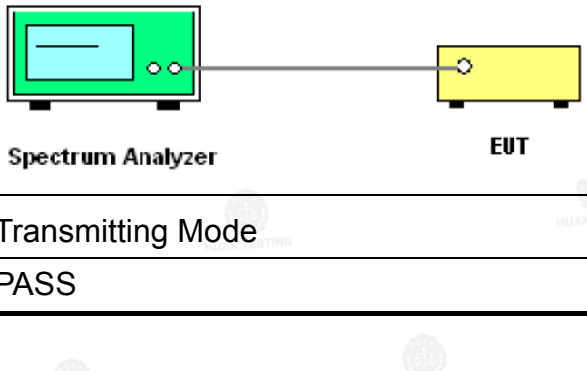
4.4 Occupied Bandwidth

4.4.1 Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2020
Limit:	N/A
	1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. 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. 4. Measure and record the results in the test report.
Test Setup:	
Test Mode:	Transmitting Mode
Test Results:	PASS

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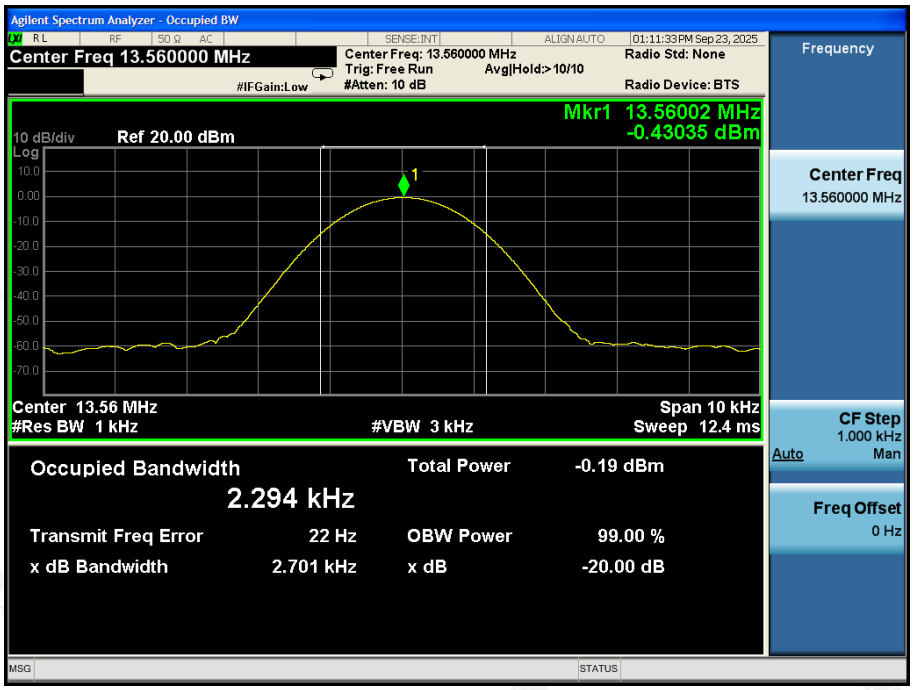
4.4.2 Test Data

Test Channel (MHz)	20dB Occupied Bandwidth (kHz)	Limit (kHz)	Conclusion
13.56	2.701	N/A	PASS

Test plots as follows:



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4.5 Frequency Stability

4.5.1 Test Specification

Test Requirement:	FCC Part15 C Section 15.225
Test Method:	ANSI C63.10: 2020
Limit:	+/-0.01%
	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a spectrum analyzer. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25℃ operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to －20℃. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10℃ increased per stage until the highest temperature of +50℃ reached.
Test Setup:	
Test Mode:	Transmitting Mode
Test Results:	PASS

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4.5.2 Test Data

PASS

Note: this EUT was tested for all models and the worst case model data was reported.

Voltage (Vdc)	Temperature (℃)	Frequency (MHz)	Deviation (%)	Limit (%)
12.0	-20	13.560029	0.00021%	+/-0.01%
12.0	-10	13.560315	0.00232%	
12.0	0	13.560307	0.00226%	
12.0	10	13.560026	0.00019%	
12.0	20	13.560098	0.00072%	
12.0	30	13.559898	-0.00075%	
12.0	40	13.559904	-0.00071%	
12.0	50	13.559849	-0.00111%	
10.2	-20	13.560152	0.00112%	
10.2	-10	13.560024	0.00018%	
10.2	0	13.559971	-0.00021%	
10.2	10	13.560236	0.00174%	
10.2	20	13.559878	-0.00090%	
10.2	30	13.559881	-0.00088%	
10.2	40	13.559863	-0.00101%	
10.2	50	13.560211	0.00156%	
13.8	-20	13.560047	0.00035%	
13.8	-10	13.559825	-0.00129%	
13.8	0	13.560323	0.00238%	
13.8	10	13.559877	-0.00091%	
13.8	20	13.559989	-0.00008%	
13.8	30	13.559812	-0.00139%	
13.8	40	13.559539	-0.00340%	
13.8	50	13.559919	-0.00060%	

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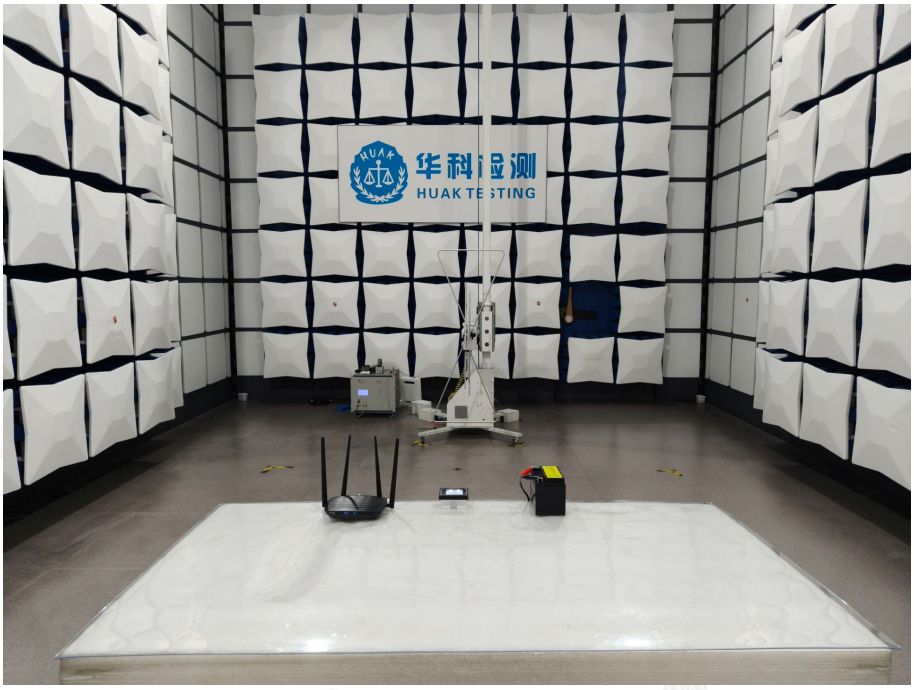
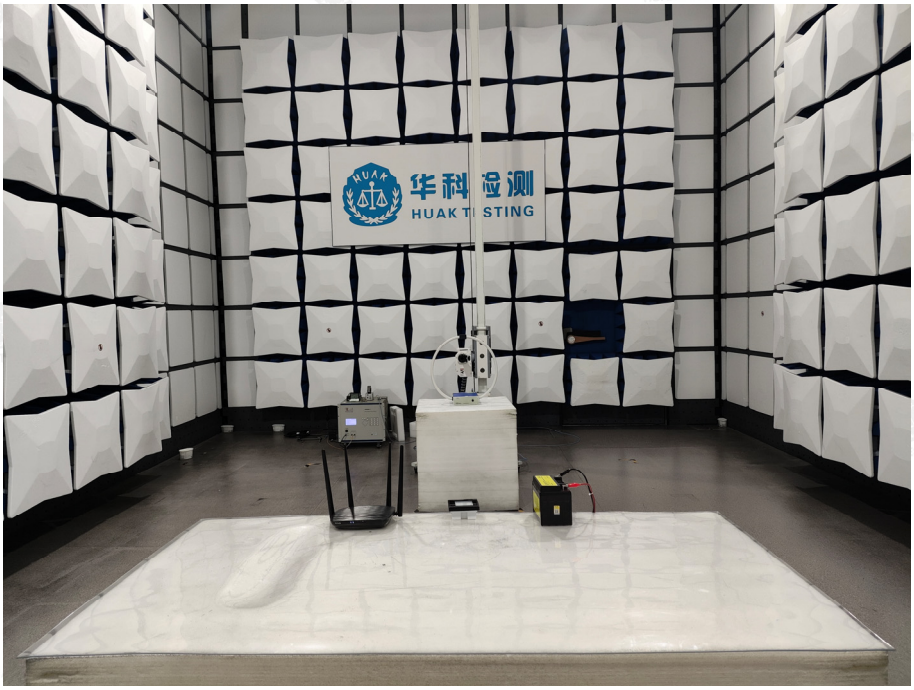
5. Photographs of Test Setup

Radiated Emission





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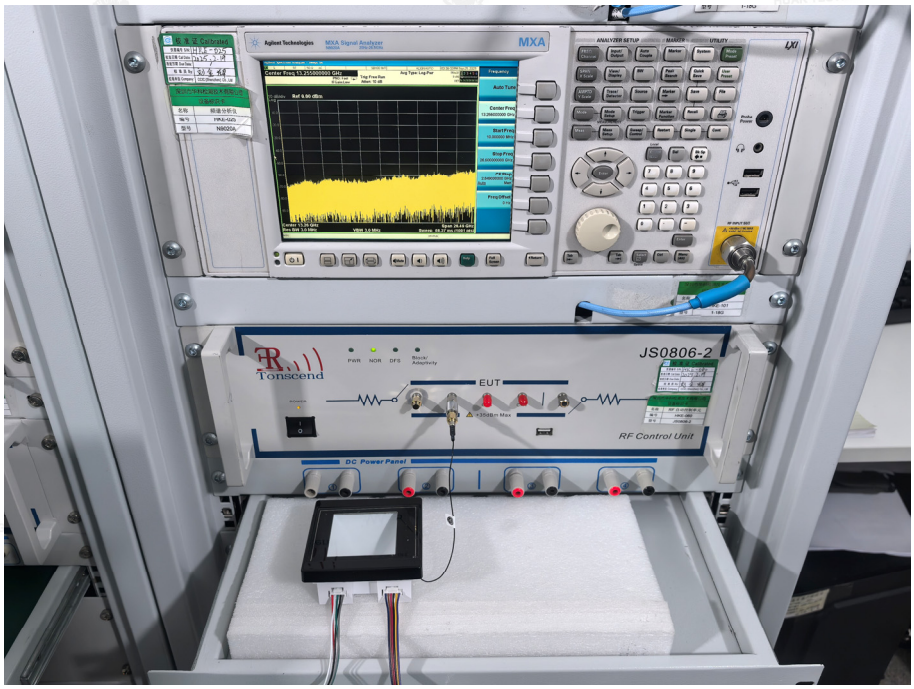
RF Conducted Emission



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6. 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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