TEST REPORT
FCC ID:2BN7B-Z21

Applicant:	SHENZHEN XINPIN INNOVATION ELECTRONIC TECHNOLOGY CO.,LTD
Address:	301,The tenth factory building,second industrial zone, Shanmen Community,Yanluo Street,Baoan District,Shenzhen,Guangdong Province, China
Manufacturer:	SHENZHEN XINPIN INNOVATION ELECTRONIC TECHNOLOGY CO.,LTD
Address:	301,The tenth factory building,second industrial zone, Shanmen Community,Yanluo Street,Baoan District,Shenzhen,Guangdong Province, China
EUT:	Charging Station
Trade Mark:	N/A
Model Number:	Z21
Date of Receipt:	Mar.06, 2025
Test Date:	Mar.18, 2025 - Mar.26, 2025
Date of Report:	Mar. 26, 2025
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.
Address:	101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Applicable Standards:	FCC PART 15 Subpart C ANSI C63.10:2020
Test Result:	Pass
Report Number:	DLE-250325005R

Prepared (Engineer):	Alisa Song	Pxing Huang
Reviewer (Supervisor):	Jack Bu	Jack Bu
Approved (Manager):	Jade Yang	Jade Yang

Shenzhen DL Testing Technology Co.,Ltd. DL Approved

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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1. VERSION

Version No.	Date	Description
00	Mar. 26, 2025	Original

2. TEST SUMMARY

EMC Emission			
Test Item	Section in CFR 47	Result	Remark
AC Power Line Conducted Emission	15.207	PASS	
Spurious Emission	15.209(a)(f)	PASS	
20dB Bandwidth	15.215	PASS	
Antenna requirement	15.203	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

Test Lab: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB ID.: CN0118

3. GENERAL INFORMATION

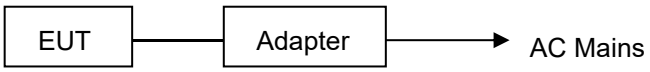
3.1 Description of Device (EUT)

Product Name:	Charging Station
Trade Mark:	N/A
Model No.:	Z21
Model Difference:	N/A
Serial No.:	N/A
Hardware version:	H1.0
Software version:	S1.0
Operation Frequency:	110kHz ~ 205KHz
Modulation type:	MSK
Antenna Type:	Inductive loop coil Antenna
Antenna gain:	0 dBi
Power supply:	Input: 9V/2A Wireless charge output: 5W/7.5W/10W/15W(max)

3.2 Tested System Details

None.

3.3 Block Diagram of Test Set-up



3.4 Test Mode Description

Mode1. Wireless Output Mode（15W）
Mode 2. Wireless Output Mode（10W）
Mode 3. Wireless Output Mode（7.5W）
Mode 4. Wireless Output Mode（5W）

Note: 1. We have evaluated 1%, 50% and 99% battery charging mode, and the worst mode (99%) is showed in this report.
2. All modes have been tested, and the report only shows the results of the worst mode 1.

3.5 Test Auxiliary Equipment

Mobile phone (Provide by test lab):
Manufacturer: SAMSUNG
Model: Galaxy S21 5G

Adapter (Provide by test lab):
Manufacturer: XIAOMI
Model: AD65G
I/P: AC 100-240V 50/60Hz
O/P: DC 5V/3A, DC 9V/3A, DC 10V/5A, DC 12V/3A, DC 15V/3A, DC 20V/3.25A

3.6 Test Uncertainty

Conducted Emission Uncertainty(150KHz-30MHz)	:	±2.56dB
20dB Bandwidth	:	±0.5kHz
Radiated Emission Uncertainty(9KHz-1GHz)	:	±3.24dB

4. TEST INSTRUMENT USED

For Conducted Emission Test (843 Shielded Room)

Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
843 Shielded Room	YIHENG	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
EMI Receiver	R&S	ESR	101421	Nov. 01, 2024	Oct. 31, 2025
LISN	R&S	ENV216	102417	Nov. 01, 2024	Oct. 31, 2025
Clamp	COM-POWER	CLA-050	431071	Nov. 02, 2024	Nov. 01, 2025
3-Loop Antenna	DAZE	ZN30401	13021	Nov. 02, 2024	Nov. 01, 2025
ISN T8	Schwarzbeck	NTFM 8158	101135	Nov. 01, 2024	Oct. 31, 2025
ISN T5	Schwarzbeck	NTFM 8158	101136	Nov. 01, 2024	Oct. 31, 2025
843 Cable 1#	ChengYu	CE Cable	001	Nov. 01, 2024	Oct. 31, 2025
843 Cable 1#	ChengYu	CE Cable	002	Nov. 01, 2024	Oct. 31, 2025

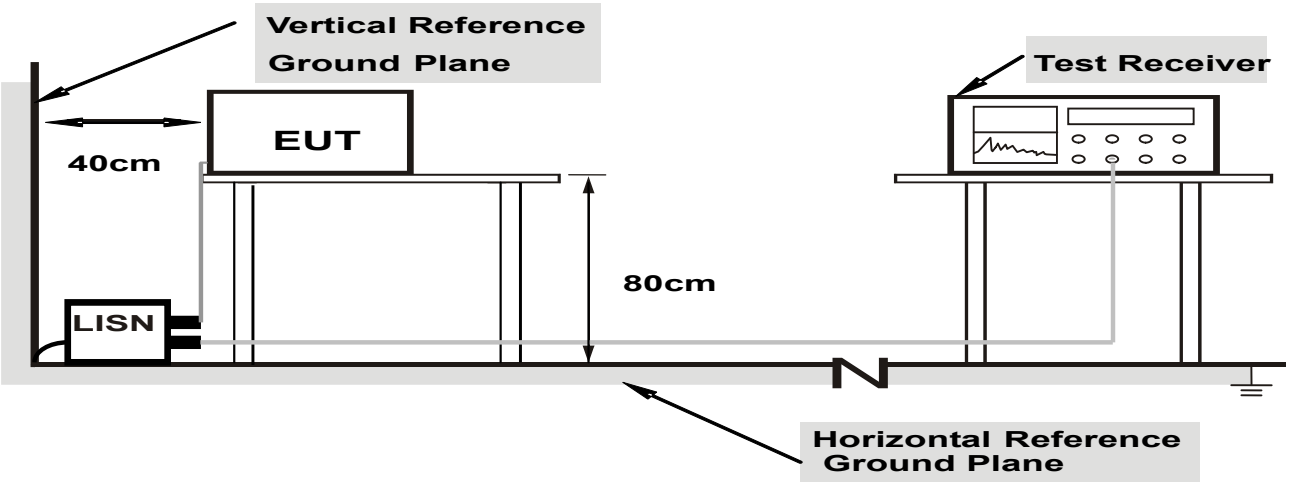
For Radiated Emission Test (966 chamber)

Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
966 Chamber	YIHENG	966 Room	966	Nov. 06, 2023	Nov. 05, 2026
Spectrum Analyzer	Agilent	E4408B	MY50140780	Nov. 01, 2024	Oct. 31, 2025
EMI Receiver	R&S	ESRP7	101393	Nov. 01, 2024	Oct. 31, 2025
Amplifier	Schwarzbeck	BBV9743B	00153	Nov. 01, 2024	Oct. 31, 2025
Amplifier	EMEC	EM01G8GA	00270	Nov. 01, 2024	Oct. 31, 2025
Broadband Trilog Antenna	Schwarzbeck	VULB9162	00306	Nov. 02, 2024	Nov. 01, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	02139	Nov. 02, 2024	Nov. 01, 2025
Loop Antenna	ZHINAN	ZN30900A	/	Nov. 01, 2024	Oct. 31, 2025
966 Cable 1#	ChengYu	966	004	Nov. 01, 2024	Oct. 31, 2025
966 Cable 2#	ChengYu	966	003	Nov. 01, 2024	Oct. 31, 2025

5. CONDUCTED EMISSION TEST

5.1 Block Diagram of Test Setup

For Mains Terminals Test



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

5.2 Test Standard and Limit

FCC Part 15 Subpart C

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15~0.50	66 ~ 56*	55 ~ 46*
0.50~5.00	56	46
5.00~30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

5.3 EUT Configuration on Test

The following equipment's are installed on conducted emission test to meet FCC Part 15 Subpart C requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

5.4 Operating Condition of EUT

5.4.1 Setup the EUT and simulators as shown in Section 5.1.

5.4.2 Turn on the power of all equipments.

5.4.3 Let the EUT work in test modes and test it.

5.5 Test Procedure

The EUT is put on the table and connected to the AC mains through a Artificial Mains Network (AMN) or ISN. This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the **ANSI C63.10** regulations during conducted emission test.

The bandwidth of the test receiver (R&S Test Receiver ESR) is set at 10KHz.

The frequency range from 150 KHz to 30 MHz is investigated.

Notes:

1.An initial pre-scan was performed on the line and neutral lines with peak detector.

2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

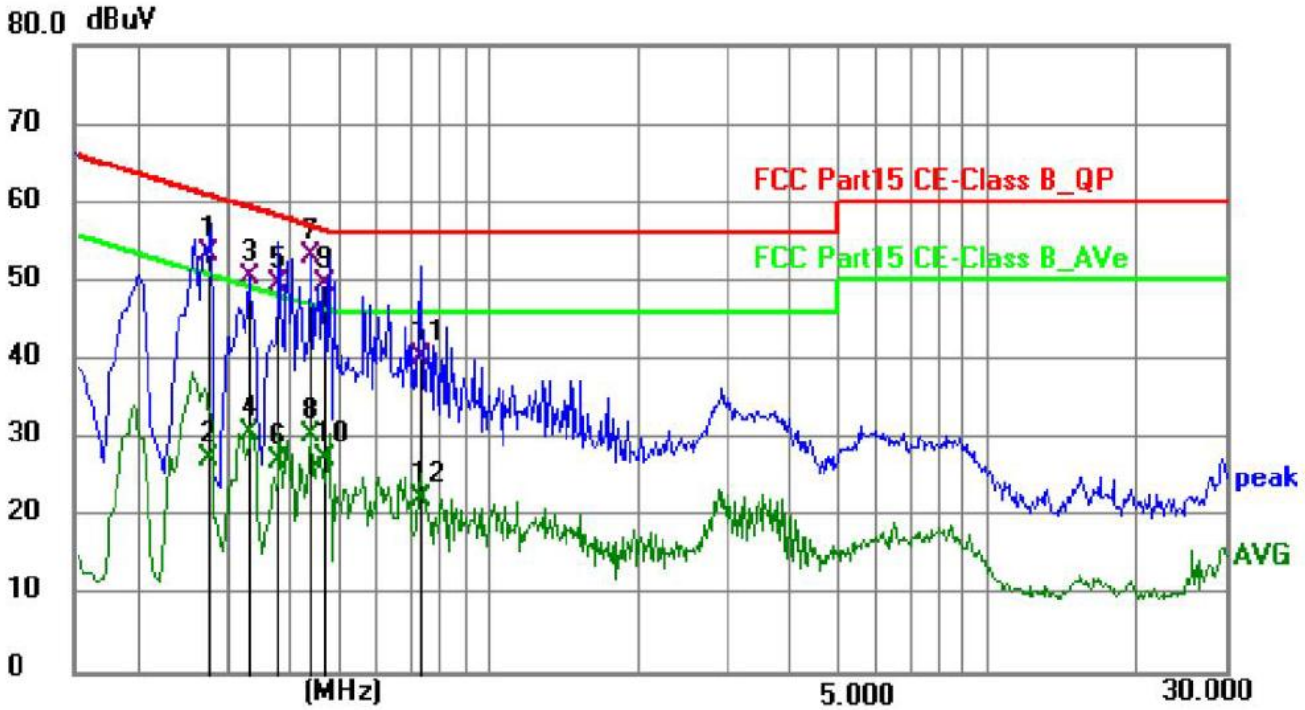
3.Mesurement Level = Reading level + Correct Factor

5.6 Test Result

PASS

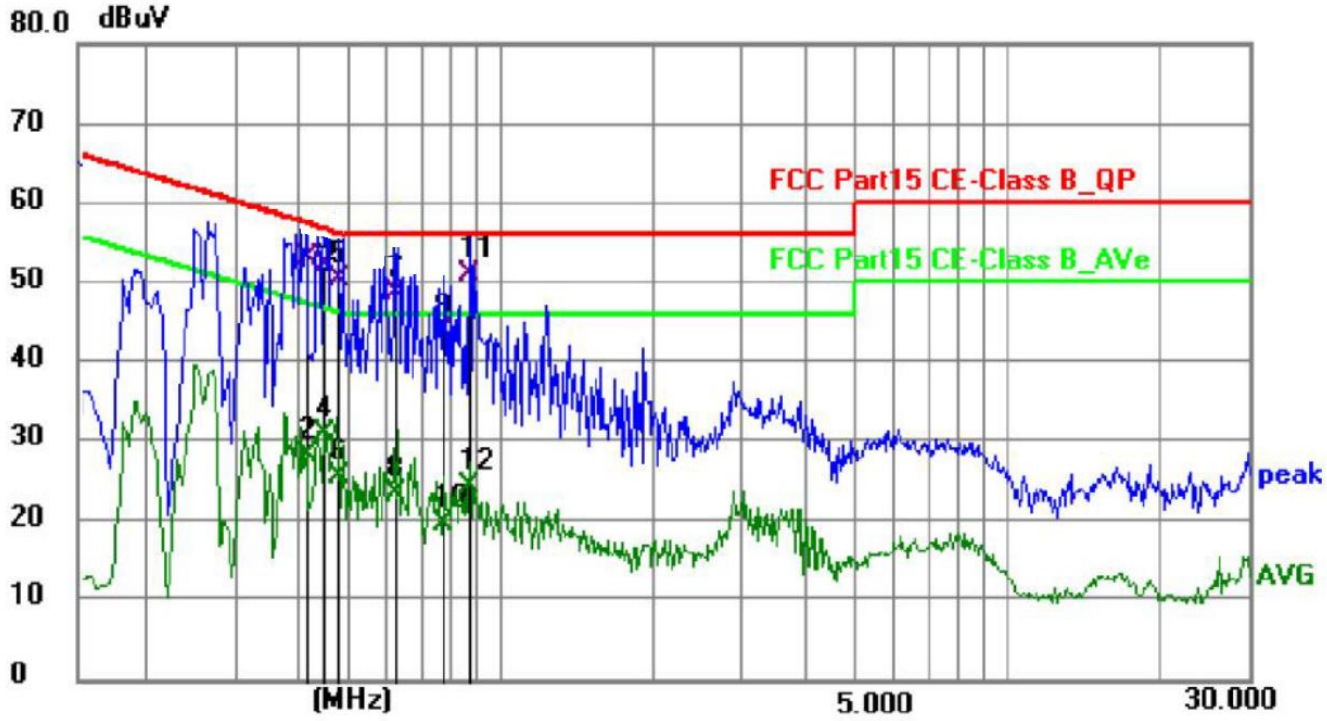
Please refer to the following page.

Conducted Emission Test Data			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Phase:	Line
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2785	34.05	19.48	53.53	60.86	-7.33	QP	P
2	0.2785	7.79	19.48	27.27	50.86	-23.59	AVG	P
3	0.3300	31.07	19.48	50.55	59.45	-8.90	QP	P
4	0.3300	11.15	19.48	30.63	49.45	-18.82	AVG	P
5	0.3795	29.93	19.49	49.42	58.29	-8.87	QP	P
6	0.3795	7.62	19.49	27.11	48.29	-21.18	AVG	P
7 *	0.4400	33.67	19.49	53.16	57.06	-3.90	QP	P
8	0.4400	10.84	19.49	30.33	47.06	-16.73	AVG	P
9	0.4727	29.97	19.49	49.46	56.47	-7.01	QP	P
10	0.4727	7.94	19.49	27.43	46.47	-19.04	AVG	P
11	0.7394	20.83	19.50	40.33	56.00	-15.67	QP	P
12	0.7394	2.66	19.50	22.16	46.00	-23.84	AVG	P

Conducted Emission Test Data			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Phase:	Neutral
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

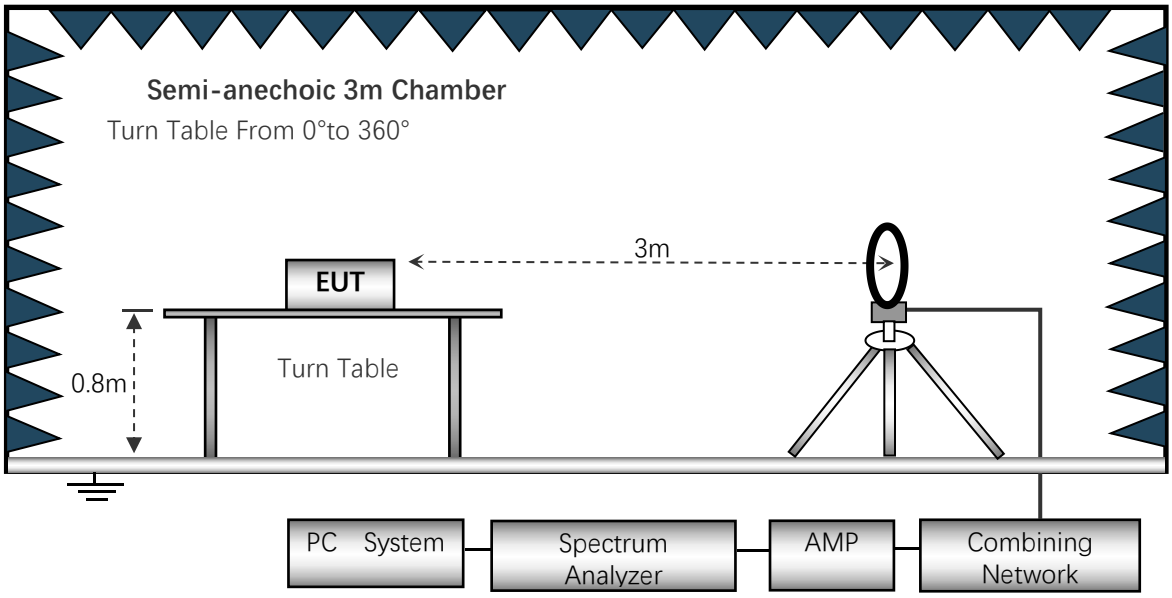


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1 *	0.4150	33.71	19.49	53.20	57.55	-4.35	QP	P
2	0.4150	8.84	19.49	28.33	47.55	-19.22	AVG	P
3	0.4500	32.82	19.48	52.30	56.88	-4.58	QP	P
4	0.4500	11.37	19.48	30.85	46.88	-16.03	AVG	P
5	0.4814	30.93	19.48	50.41	56.31	-5.90	QP	P
6	0.4814	6.17	19.48	25.65	46.31	-20.66	AVG	P
7	0.6280	29.24	19.50	48.74	56.00	-7.26	QP	P
8	0.6280	3.81	19.50	23.31	46.00	-22.69	AVG	P
9	0.7712	24.28	19.49	43.77	56.00	-12.23	QP	P
10	0.7712	0.30	19.49	19.79	46.00	-26.21	AVG	P
11	0.8700	31.71	19.49	51.20	56.00	-4.80	QP	P
12	0.8700	4.86	19.49	24.35	46.00	-21.65	AVG	P

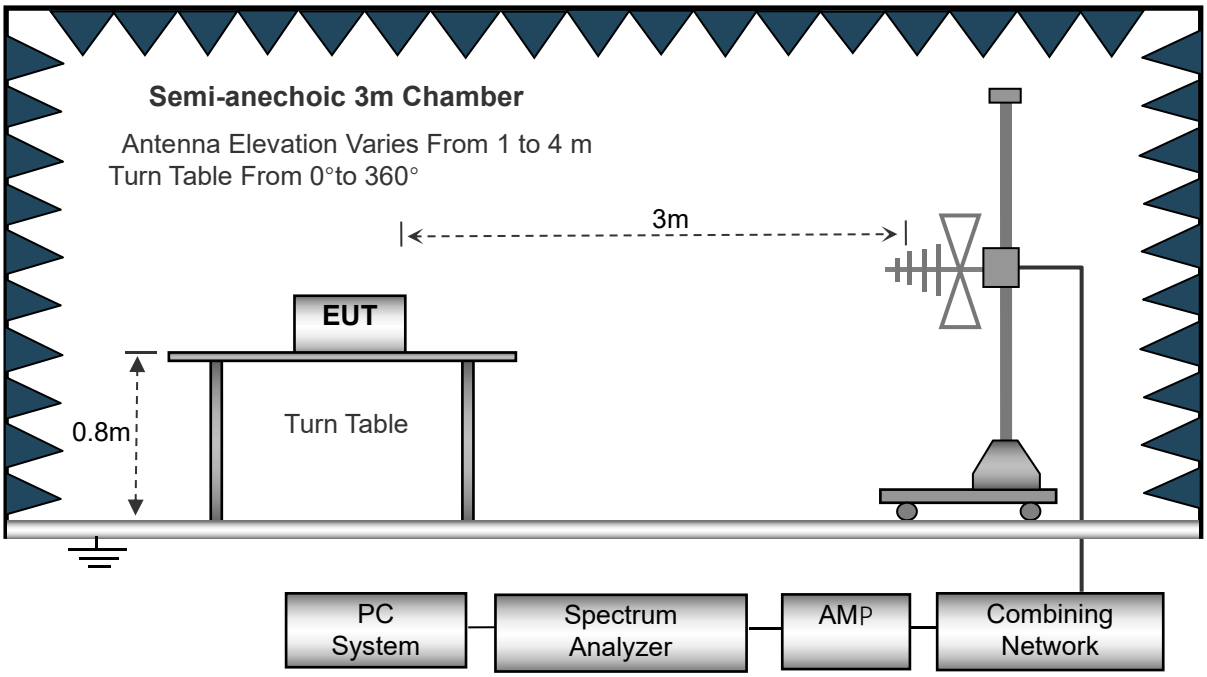
6. RADIATION EMISSION TEST

6.1 Block Diagram of Test Setup

Radiated Emission Test-Up Frequency Below 30MHz



Below 1GHz



6.2 Test Standard and Limit

FCC Part 15 Subpart C

Limits for frequency below 30MHz

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.090	2400/F(kHz)	300	AVERAGE
0.090-0.110	2400/F(kHz)	300	Quasi-peak Value
0.110-0.490	2400/F(kHz)	300	AVERAGE
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

Above 30MHz

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBμV/m)	Remark
30 ~ 88	3	40.0	Quasi-peak Value
88 ~ 216	3	43.5	Quasi-peak Value
216 ~ 960	3	46.0	Quasi-peak Value
960 ~ 1000	3	54.0	Quasi-peak Value
Above 1000	3	74.0	PEAK
		54.0	AVERAGE

Remark:

(1) The smaller limit shall apply at the cross point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument, antenna and the closed point of any part of the device or system.

6.3 EUT Configuration on Test

The FCC Part 15 Subpart C regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test.

Please refer to Section 5.3.

6.4 Operating Condition of EUT

Same as conducted emission test, which is listed in Section 5.4 except the test set up replaced as Section 6.2.

6.5 Test Procedure

1) The radiated emissions test was conducted in a semi-anechoic chamber.

2) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.

3) Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.

4) The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

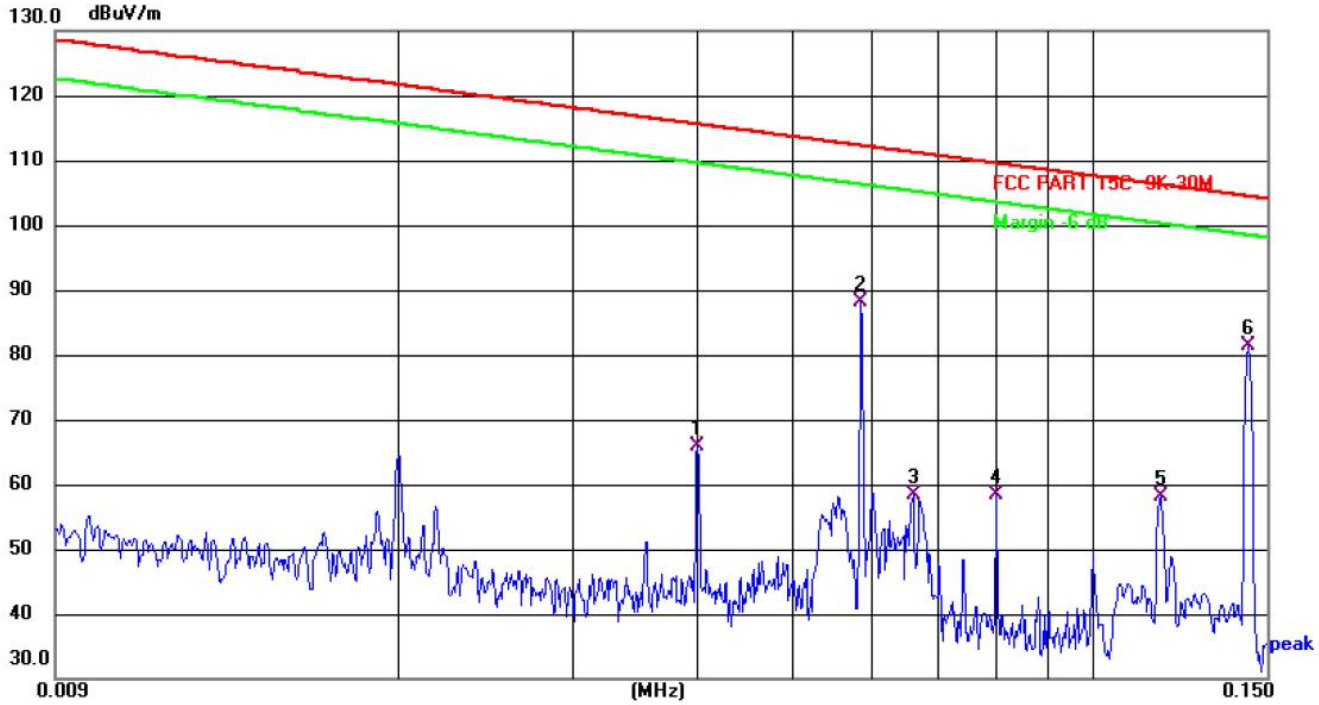
5) The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 120KHz.

6) The frequency range from 9KHz to 1000MHz is checked.

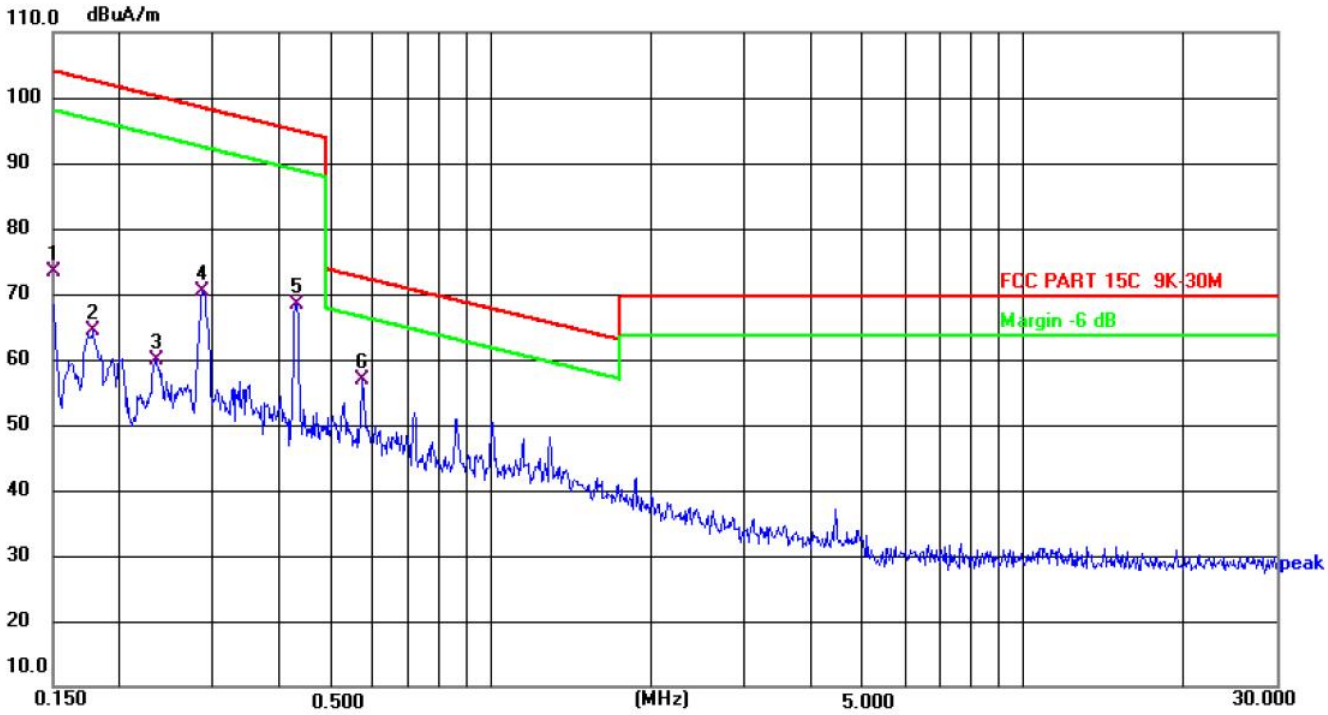
6.6 Test Result

PASS, Please refer to the following page.

Radiation Emission Test Data 0.009MHz~30 MHz			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	/
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0400	37.82	28.02	65.84	115.55	-49.71	QP
2	0.0584	60.24	27.80	88.04	112.27	-24.23	QP
3	0.0660	30.58	27.72	58.30	111.20	-52.90	QP
4	0.0800	30.91	27.55	58.46	109.53	-51.07	QP
5	0.1171	30.90	27.22	58.12	106.23	-48.11	QP
6	0.1438	54.41	27.07	81.48	104.44	-22.96	QP



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)	Detector
1	0.1500	46.25	27.04	73.29	104.08	-30.79	QP
2	0.1785	37.39	26.96	64.35	102.57	-38.22	QP
3	0.2340	33.20	26.78	59.98	100.22	-40.24	QP
4	0.2863	43.88	26.62	70.50	98.46	-27.96	QP
5	0.4305	42.25	26.17	68.42	94.92	-26.50	QP
6	0.5731	31.18	25.73	56.91	72.47	-15.56	QP

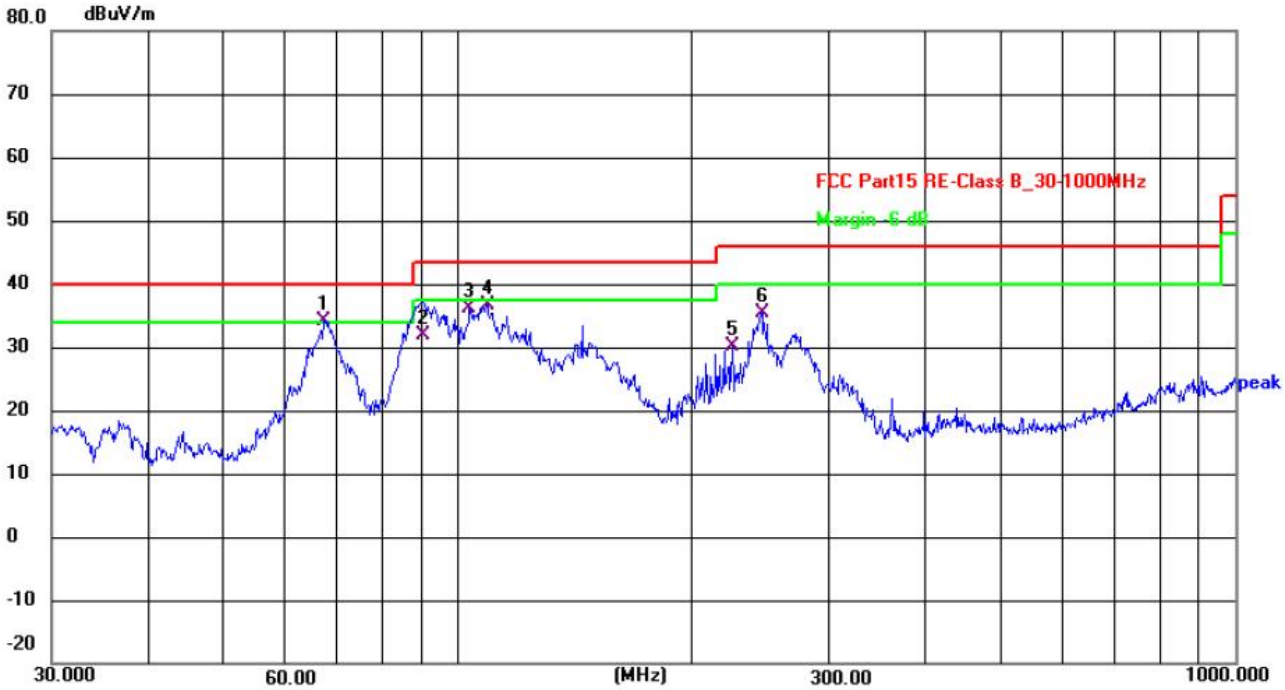
Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

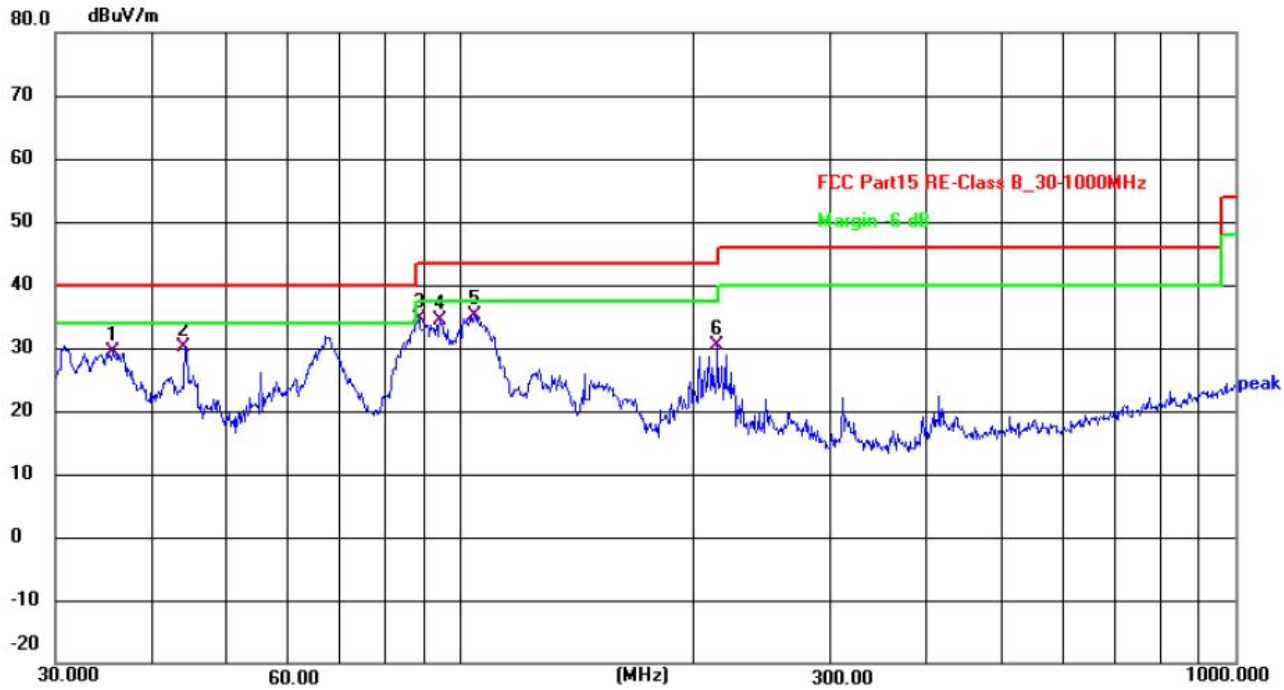
Margin = Emission Level(Meter Reading+ Factor) - Limit.

Radiation Emission Test Data			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	67.2022	51.29	-17.23	34.06	40.00	-5.94	QP
2	90.2205	50.21	-18.21	32.00	43.50	-11.50	QP
3	103.4419	51.99	-15.81	36.18	43.50	-7.32	QP
4	109.0286	52.31	-15.70	36.61	43.50	-6.89	QP
5	225.3080	45.66	-15.47	30.19	46.00	-15.81	QP
6	245.9510	50.45	-15.02	35.43	46.00	-10.57	QP

Radiation Emission Test Data			
Temperature:	24.5 ℃	Relative Humidity:	54%
Pressure:	1009hPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.6240	45.62	-16.15	29.47	40.00	-10.53	QP
2	44.1200	44.53	-14.45	30.08	40.00	-9.92	QP
3	88.3421	53.26	-18.56	34.70	43.50	-8.80	QP
4	94.0978	51.76	-17.29	34.47	43.50	-9.03	QP
5	104.1701	50.87	-15.80	35.07	43.50	-8.43	QP
6	214.5143	46.15	-15.85	30.30	43.50	-13.20	QP

Remarks:

1.Final Level =Receiver Read level + Correct factor (Antenna Factor + Cable Loss – Preamplifier Factor)

2.The emission levels of other frequencies are very lower than the limit and not show in test report.

7. BANDWIDTH TEST

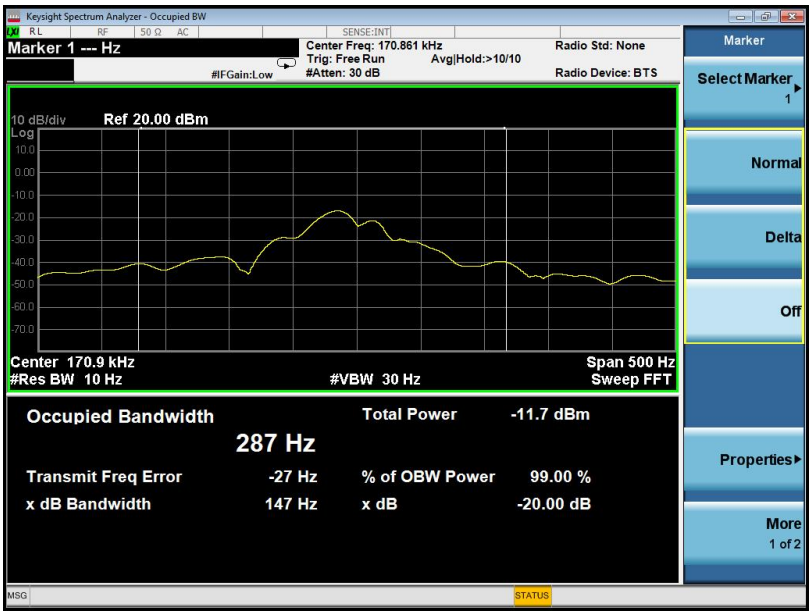
7.1 TEST SETUP

1. Set RBW = 10Hz.
2. Set the video bandwidth (VBW) ≥ 3 x 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 20 dB relative to the maximum level measured in the fundamental emission.

7.2 TEST SETUP

7.3 TEST Result

	Frequency (KHz)	20dB bandwidth (Hz)	Result
Phone	170.9	147	Pass



Note: The measured signal is Cw-ike, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 10 Hz to perfomm the occupied bandwidth test.

8. ANTENNA REQUIREMENT

a) STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

b) EUT ANTENNA

The EUT antenna is Inductive loop coil Antenna. It comply with the standard requirement.

9. SETUP PHOTOGRAPHS

Reference to the setup photo for details.

10. EUT PHOTOGRAPHS

Reference to the external and internal photo for details.

※※※※※ **END OF REPORT** ※※※※※