

TEST REPORT

Applicant : SHUN FO TECHNOLOGY CO., LIMITED

Address : FLAT A598, 6/F, HOWARD FACTORY BUILDING, 66 TSUNVIP STREET, KWUN TONG 999077, HONG KONG HK, China

Manufacturer : SHUN FO TECHNOLOGY CO., LIMITED

Address : FLAT A598, 6/F, HOWARD FACTORY BUILDING, 66 TSUNVIP STREET, KWUN TONG 999077, HONG KONG HK, China

Product Name : Magnetic wireless charger

Model Number : C20

Trademark : N/A

FCC ID : 2BU5T-C20

Test Date : Feb. 28, 2026 - Mar. 06, 2026

Date of Report : Mar. 06, 2026

Test Result : This device described above has been tested by BKC, and the test results show that the equipment under test (EUT) is in compliance with the Standard requirements. And it is applicable only to the tested sample identified in the report.

Test Procedure Used:

Standards : FCC CFR Title 47 Part 15 Subpart C
ANSI C63.10-2020+Cor 1+2023

Prepared by(Test Engineer):
Carey Zheng



Reviewer(Supervisor):
Casey Wang



Approved(Manager):
Jerry Liao



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1. General Information

1.1. Customer basic information

Contacts : zhenyu Shi
E-Mail : sunshoujun@info.wycy.com
Telephone : 18588457171

1.2. Description of Device (EUT)

EUT Name : Magnetic wireless charger
Model No. : C20
Model Difference : N/A
Power supply : Input voltage/current: DC 5V---2A/ 9V---2A
Wireless Output: 15W/10W/7.5W/5W
Operation frequency : 110-205KHz
Max. RF output power: : 80.84dBuV/m
Modulation : ASK
Antenna Type : Coil antenna, The number of antenna turns is 10 Turns
Intend use environment : Residential, commercial and light industrial environment

1.3. Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
/	/	/	/	/	/

1.4. Summary of test result

RF PART		
Test Items	Test Requirement	Result
Antenna requirement	15.203	PASS
AC Power Line Conducted Emission	15.207	PASS
Spurious Emission	15.209(a)(f)	PASS
20dB Bandwidth	15.215	PASS
Remark: N/A is an abbreviation for Not Applicable. Measurement Uncertainty is not taken into account for conformity statement		

1.5. Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Hardware Version	Software Version
Adapter	/	HW088	/	/
Cellphone	/	Apple 14	/	/

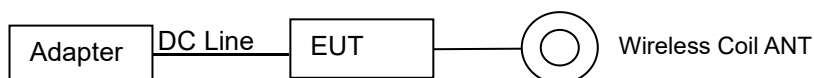
1.6.Test mode

The special RF test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode.

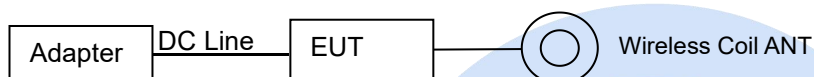
Test mode	Low channel	Middle channel	High channel
ASK	/	/	/
Note: /			

1.7.Block Diagram

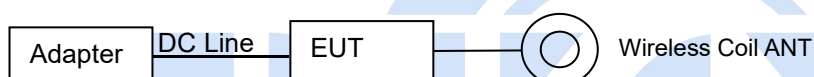
Conducted Emission



Radiated Emission



20dB Bandwidth



1.8.Independent Operation Modes

Mode	Description	Remark
1	Adapter + EUT + Load (5W)	1%
		50%
		99%
2	Adapter + EUT + Load (7.5W)	1%
		50%
		99%
3	Adapter + EUT + Load (10W)	1%
		50%
		99%
4	Adapter + EUT + Load (15W)	1%
		50%
		99%

Note:1. All test modes were pre-tested, but we only recorded the worst case in this report.

1.9. Test Conditions

Category	Normal Conditions	Extreme Conditions
Temperature range	15-35°C	N/A
Humidity range	20-75%	N/A
Pressure range	86-106kPa	N/A
Power supply	DC 5V---2A/ 9V---2A	N/A
Note: N/A is an abbreviation for Not Applicable.		

1.10. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for radio frequency	$\pm 7 \times 10^{-8}$	
Conducted Emissions (150kHz~30MHz)	$\pm 2.54\text{dB}$	
Radiated Emission(9KHz~30MHz)	$\pm 1.6\text{ dB}$	
Radiated Emission(30MHz~1GHz)	Vertical: $\pm 4.14\text{dB}$ Horizontal: $\pm 4.25\text{dB}$	
Radiated Emission(1GHz~6GHz)	$\pm 3.9\text{dB}$	
Radiated Emission(6GHz~18GHz)	$\pm 4.3\text{dB}$	
Radiated Emission(18GHz~40GHz)	$\pm 3.38\text{dB}$	
Uncertainty for conducted RF Power	$\pm 0.20\text{dB}$	
Conducted spurious emissions	$\pm 0.24\text{dB}$	
Uncertainty for temperature	0.6°C	
Uncertainty for humidity	1%	
Bandwidth	$\pm 1.5 \times 10^{-6}$	
Time	$\pm 2\%$	
Duty Cycle	$\pm 2\%$	
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%		

1.11. Test Facility

Site Description	
Name of Firm	: Shenzhen BKC Testing Co., Ltd.
Site Location	: Room 103, 1/F, Huaya Building, Huaya Industrial Park, Longhua Community, Longhua District, Shenzhen, Guangdong, China.
ISED CAB identifier	: CN0188
ISED Company Number	: 34333
FCC Designation Number	: CN1416
FCC Test Firm Registration Number	: 701543

1.12. Test Equipment

Conducted Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	102762	Mar. 10. 2025	Mar. 09. 2026
2	EMI Test Receiver	R&S	ESCI	101424	Mar. 10. 2025	Mar. 09. 2026
3	Rf cables	HTEC	HCE 2M-CE	N/A	Mar. 10. 2025	Mar. 09. 2026
4	Coupling/ Decoupling Network	Diamond	CX210	N/A	Mar. 10. 2025	Mar. 09. 2026
5	CE Testing software	EZ	EZ-EMC	/	/	/

Radiated Test Site(Below 1G and Above 1G)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Antenna	Schwarzbeck	VULB 9168	01321	Mar. 20. 2025	Mar. 19. 2028
2	EMI Test Receiver	R&S	ESRP	101478	Mar. 10. 2025	Mar. 09. 2026
3	Preamplifier	HP	8447D	2727A05345	Mar. 10. 2025	Mar. 09. 2026
4	Double Ridged Broadband	SCHWARZBECK	BBHA 9120D	02621	Mar. 10. 2025	Mar. 19. 2028
5	Preamplifier	Schwarzbeck	BBV 9718D	00041	Mar. 10. 2025	Mar. 09. 2026
6	Rf cables	HUBER+SUHNER	8M-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
7	Rf cables	HUBER+SUHNER	1.5M-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
8	Rf cables	HUBER+SUHNER	1.5M-AP-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
9	Loop antenna	ANRF	ANRF-6603	091802	Mar. 09. 2025	Mar. 10. 2026
10	Spectrum analyzer	R&S	FSP40	200061	Feb. 11. 2026	Feb. 10. 2027
11	Double Ridged Broadband Horn Antenna	COM-POWER	AH-1840	10100009	Mar. 10. 2025	Mar. 09. 2026
12	Spectrum	Agilent	N9020A	MY50510311	Mar. 09. 2025	Mar. 10. 2026
13	Band Stop Filter	Bafang	BSF5G	2024052610	Mar. 09. 2025	Mar. 10. 2026
14	RE Testing software	EZ	EZ-EMC	/	/	/

RF Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum	Agilent	N9020A	MY50510311	Mar. 09. 2025	Mar. 10. 2026
2	Vector source	Agilent	N5182A	MY47420223	Mar. 09. 2025	Mar. 10. 2026
3	All instrument	Rohde & Schwarz	CMW 500	101131	Mar. 09. 2025	Mar. 10. 2026
4	control unit	MW	MW100-RFCB	MW200411BK-34	Mar. 09. 2025	Mar. 10. 2026
5	RF Testing software	MW	MTS 8310	/	Mar. 09. 2025	/

6	Spectrum analyzer	R&S	FSP40	200061	Feb. 11. 2026	Feb. 10. 2027
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Test software

Software name	RF Testing software
Software version	2.0.0.0
Software name	RE Testing software
Software version	EMEC-03A2 RE+
Software name	CE Testing software
Software version	EMEC-3A1+



2. Conducted emission at the mains terminals test

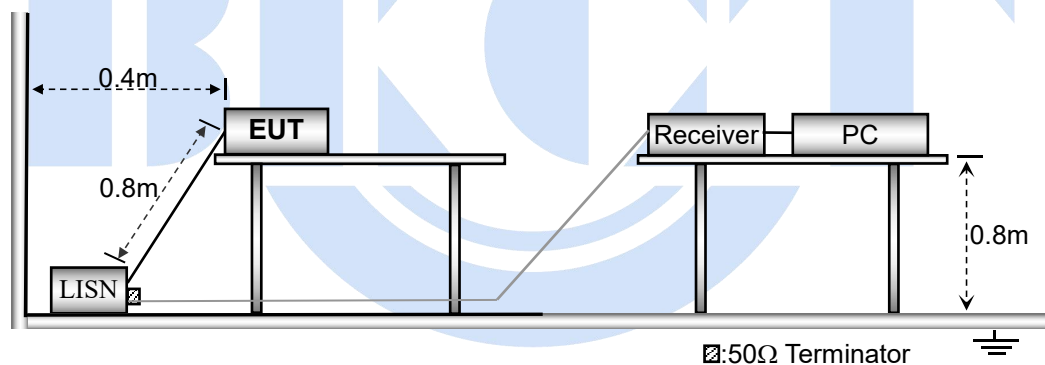
2.1.Limit

Test Requirement:	FCC Part15 C Section 15.207, RSS-Gen 8.8&RSS-216 5.3.2
Test Method:	ANSI C63.10-2020+Cor 1+2023
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.009 ~ 0.05	110	/
0.05 ~ 0.15	90 to 80*	/
0.15 ~ 0.50	66 ~ 56*	56 ~ 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.

2.2.Test Setup

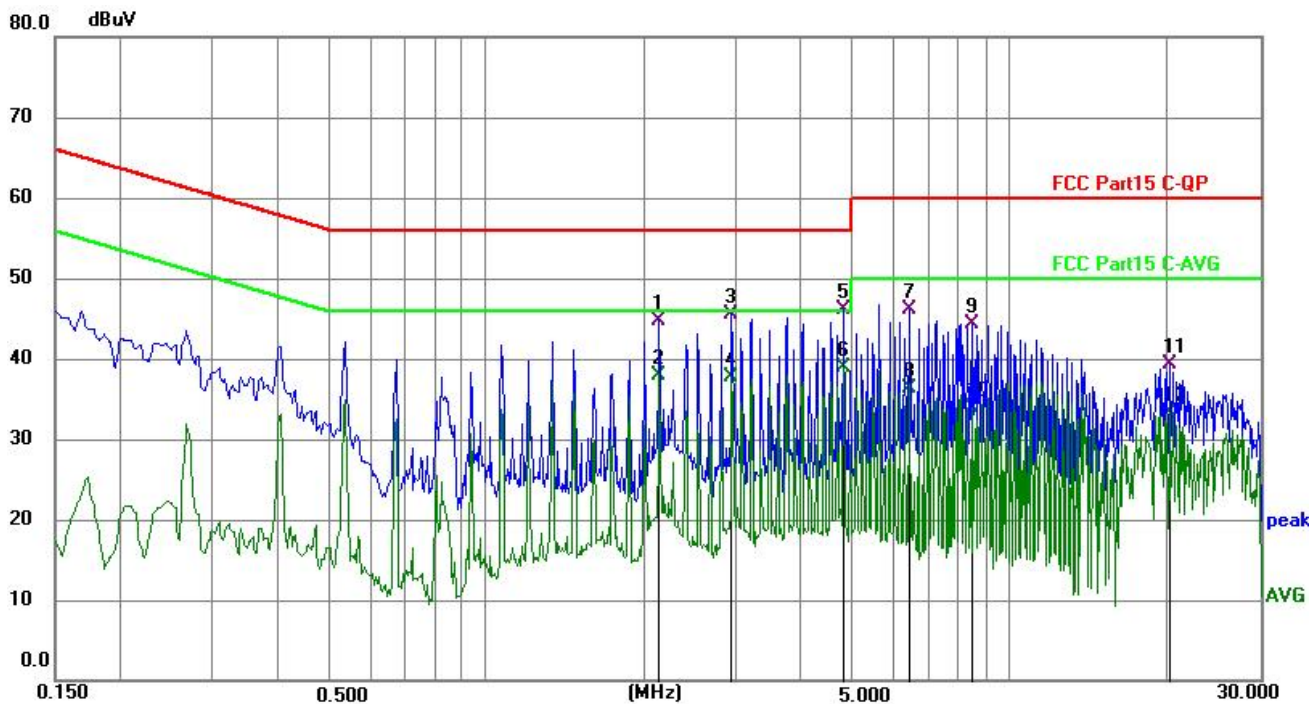


2.3.Test Procedure

1. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
2. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
4. LISN at least 80 cm from nearest part of EUT chassis.
5. For the actual test configuration, please refer to the related Item - EUT Test Photos.

2.4.Test Result

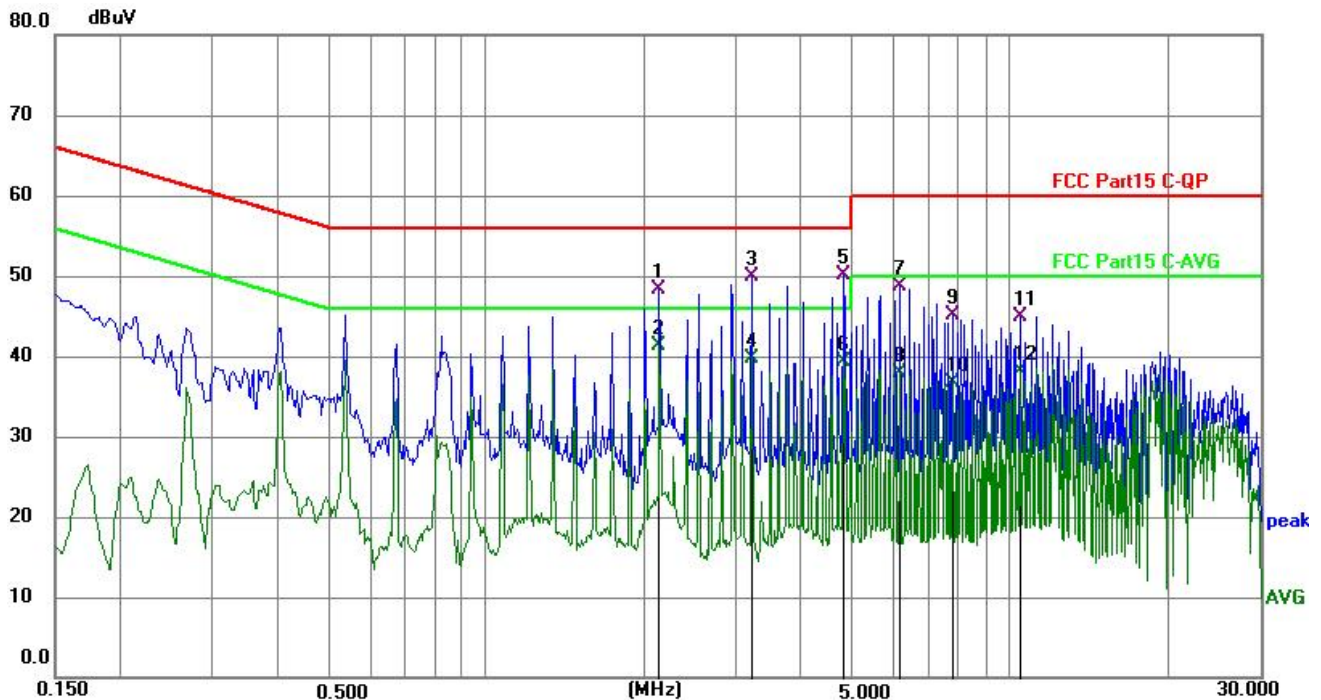
Conducted Emission At The Mains Terminals Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Line
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	2.1389	35.04	9.76	44.80	56.00	-11.20	QP	P
2	2.1389	28.24	9.76	38.00	46.00	-8.00	AVG	P
3	2.9445	35.71	9.78	45.49	56.00	-10.51	QP	P
4	2.9445	27.93	9.78	37.71	46.00	-8.29	AVG	P
5	4.8075	36.22	9.81	46.03	56.00	-9.97	QP	P
6 *	4.8075	29.13	9.81	38.94	46.00	-7.06	AVG	P
7	6.4095	36.36	9.80	46.16	60.00	-13.84	QP	P
8	6.4095	26.58	9.80	36.38	50.00	-13.62	AVG	P
9	8.4254	34.55	9.77	44.32	60.00	-15.68	QP	P
10	8.4254	24.04	9.77	33.81	50.00	-16.19	AVG	P
11	20.1795	29.51	9.83	39.34	60.00	-20.66	QP	P
12	20.1795	23.42	9.83	33.25	50.00	-16.75	AVG	P

Conducted Emission At The Mains Terminals Test Data

Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Neutral
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	2.1433	38.66	9.69	48.35	56.00	-7.65	QP	P
2 *	2.1433	31.60	9.69	41.29	46.00	-4.71	AVG	P
3	3.2145	40.27	9.71	49.98	56.00	-6.02	QP	P
4	3.2145	29.92	9.71	39.63	46.00	-6.37	AVG	P
5	4.8209	40.34	9.73	50.07	56.00	-5.93	QP	P
6	4.8209	29.48	9.73	39.21	46.00	-6.79	AVG	P
7	6.1619	39.02	9.71	48.73	60.00	-11.27	QP	P
8	6.1619	28.23	9.71	37.94	50.00	-12.06	AVG	P
9	7.7685	35.34	9.71	45.05	60.00	-14.95	QP	P
10	7.7685	27.06	9.71	36.77	50.00	-13.23	AVG	P
11	10.4459	35.25	9.70	44.95	60.00	-15.05	QP	P
12	10.4459	28.32	9.70	38.02	50.00	-11.98	AVG	P

Note:

1. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission
2. Margin = Reading level + Correct Factor - Llimit

3. Radiated Spurious Emissions

3.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.209 ,RSS-216 5.3.3& RSS GEN 8.9
Test Method: ANSI C63.10-2020+Cor 1+2023
Test Result: PASS
Measurement Distance: 3m

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

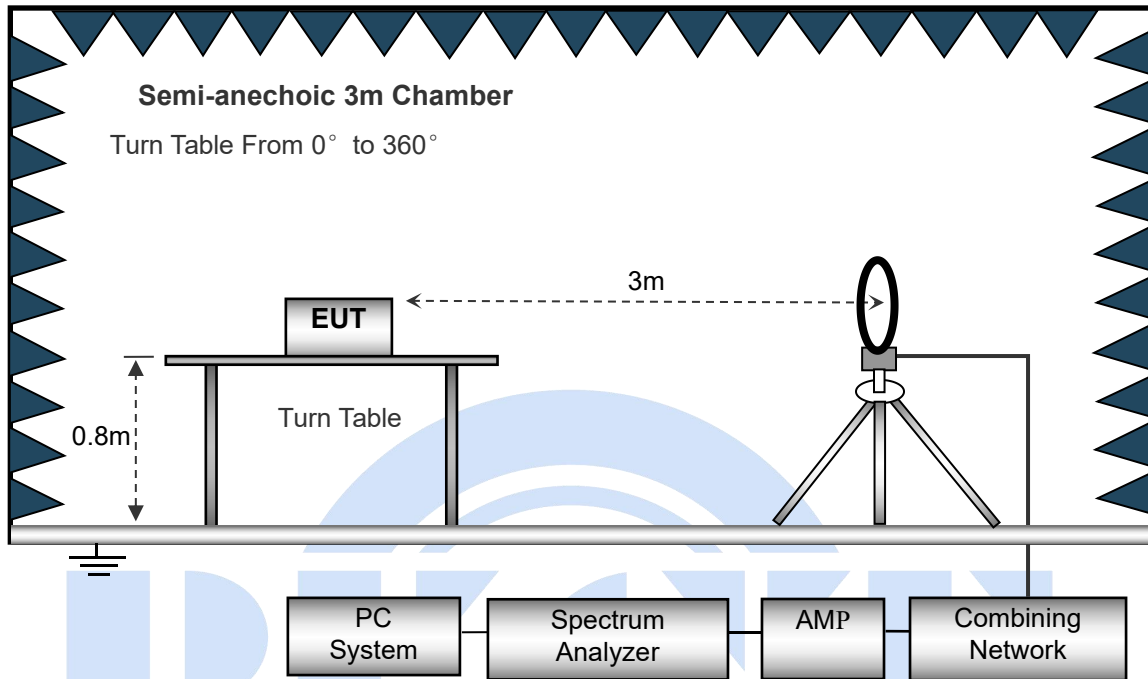
Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log(2400/F(\text{kHz})) + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log(24000/F(\text{kHz})) + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log(30) + 40$
30 ~ 88	100	3	100	$20\log(100)$
88 ~ 216	150	3	150	$20\log(150)$
216 ~ 960	200	3	200	$20\log(200)$
Above 960	500	3	500	$20\log(500)$

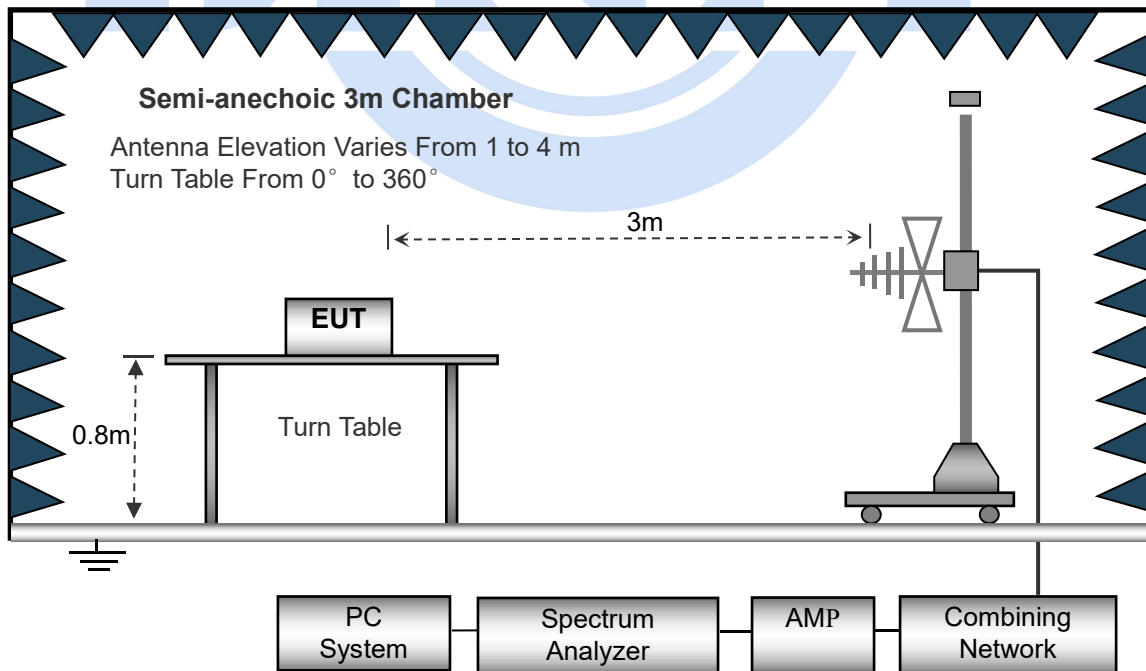
3.2. Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

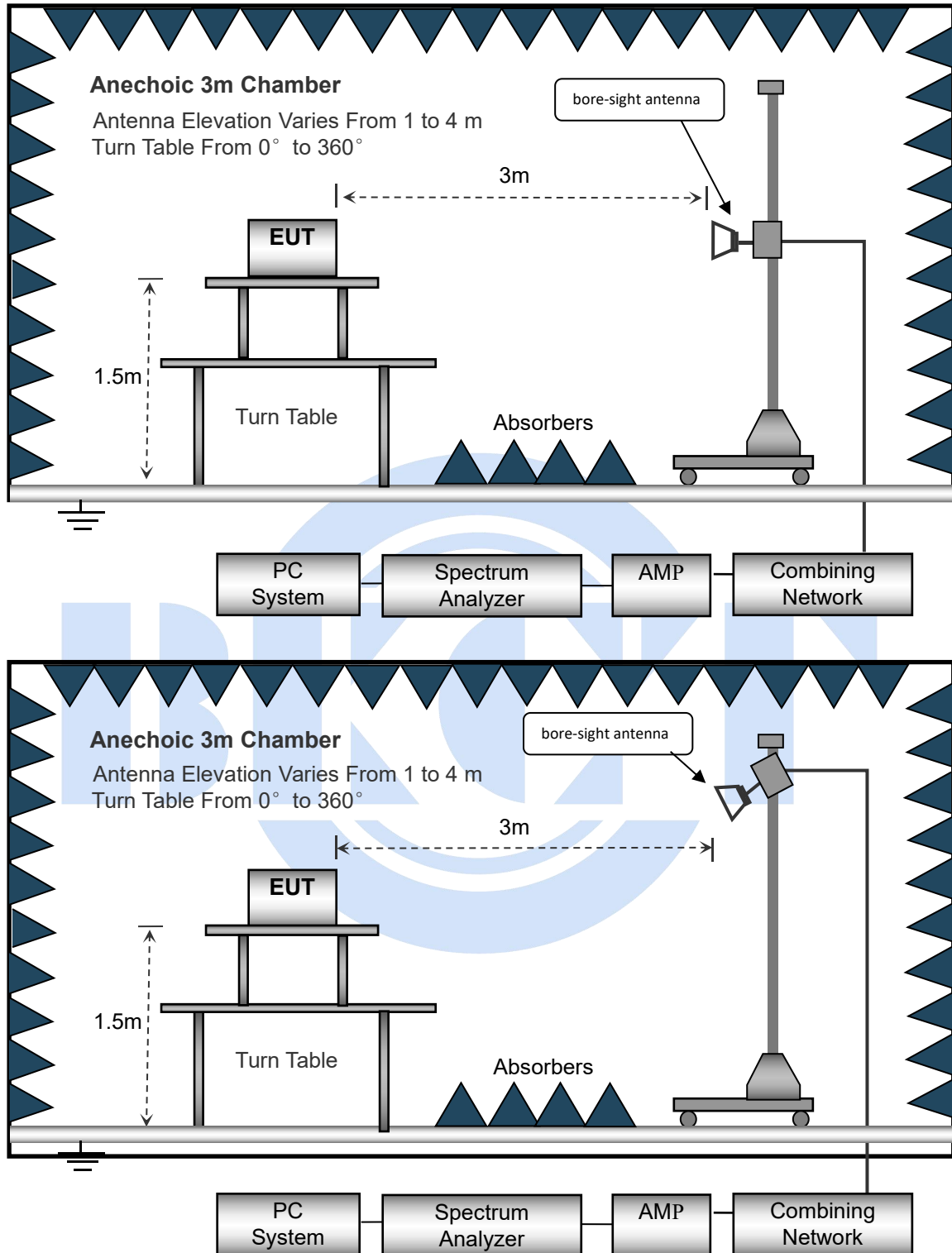
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



3.3. Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.



3.4. Test Result

Measurement data:

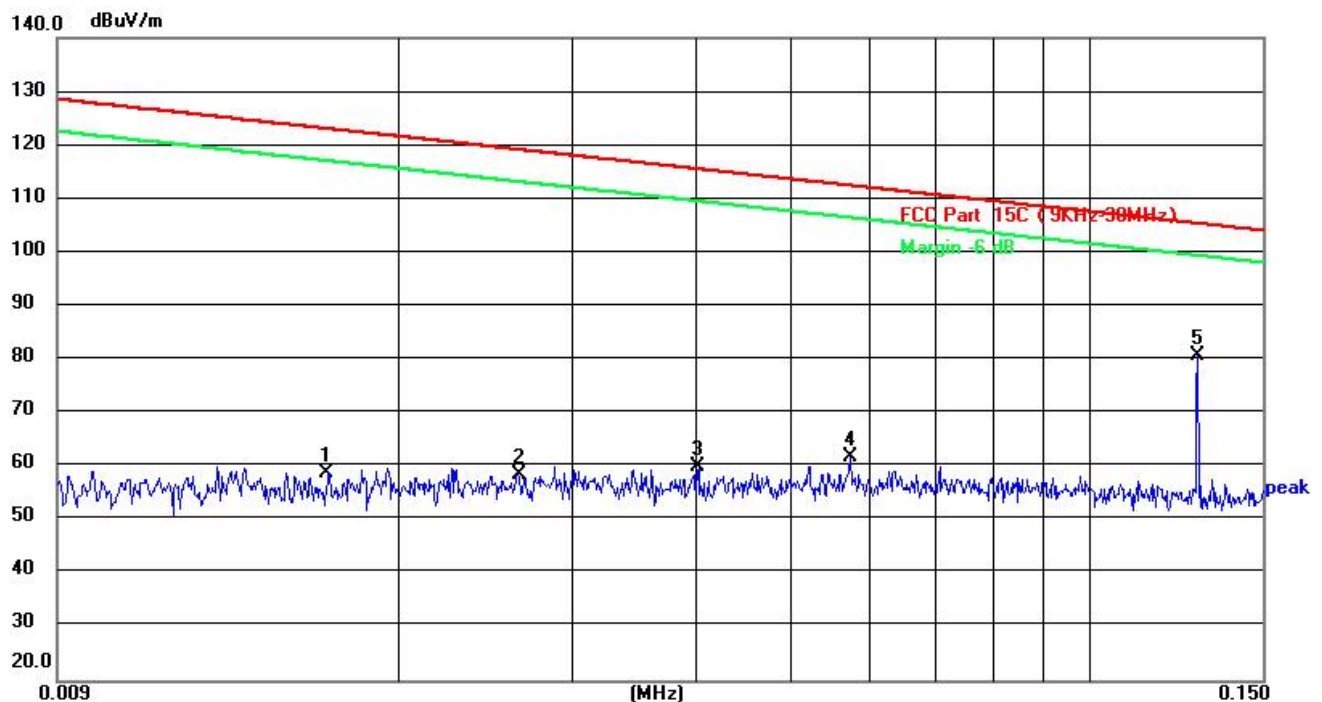
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

dBuV/m = 20 log (uV/m)

Test Frequency : 9 kHz~30 MHz

Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Z axis
Test Voltage :	AC 120V/60Hz	Test Mode	Mode 4



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0169	38.67	20.18	58.85	123.05	-64.20	peak
2	0.0264	38.27	20.27	58.54	119.17	-60.63	peak
3	0.0401	39.83	20.26	60.09	115.54	-55.45	peak
4	0.0573	41.57	20.15	61.72	112.44	-50.72	peak
5 *	0.1289	60.79	20.05	80.84	105.40	-24.56	peak

Note1:

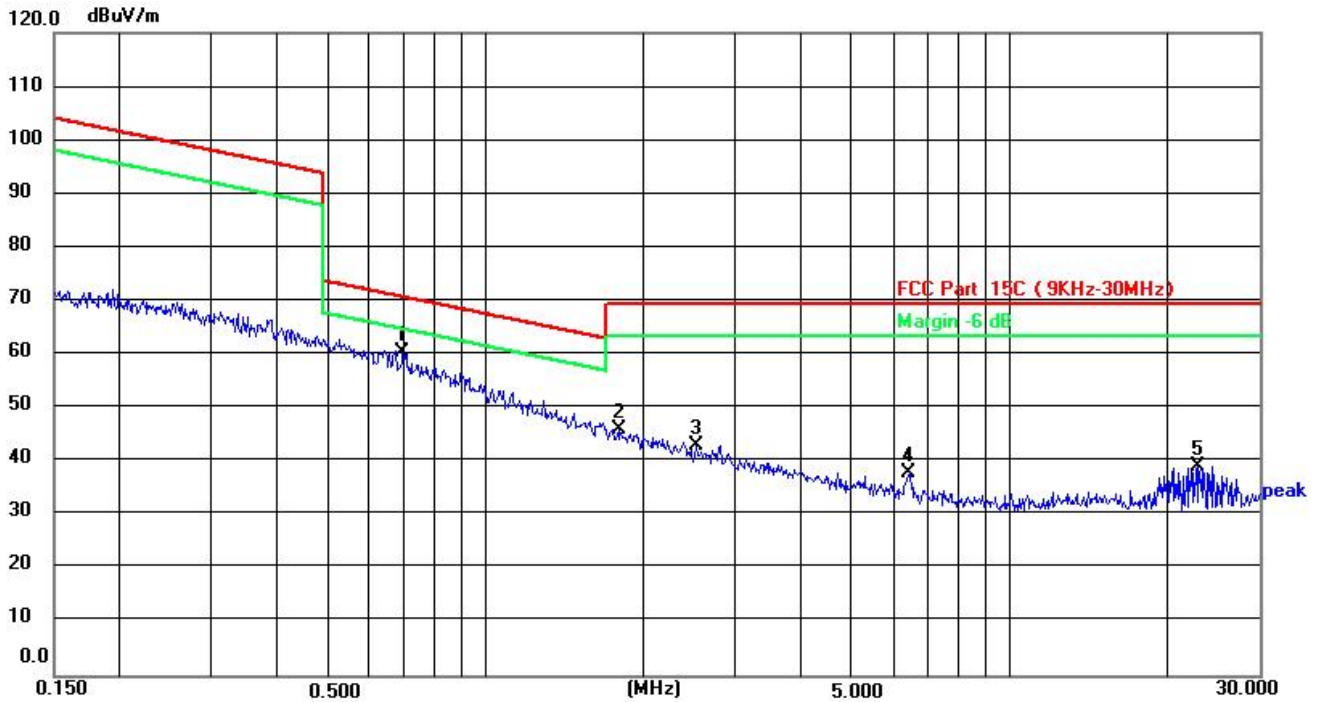
Pre-scan in the all of mode, the worst case in of was recorded.

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

Margin = Emission Level- Limit.

Note2:*On behalf of the fundamental frequency

Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Z axis
Test Voltage :	AC 120V/60Hz	Test Mode	Mode 4



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	0.6936	40.47	19.94	60.41	70.78	-10.37	peak
2	1.7905	25.93	20.00	45.93	69.54	-23.61	peak
3	2.5133	22.95	20.08	43.03	69.54	-26.51	peak
4	6.4539	17.93	20.11	38.04	69.54	-31.50	peak
5	22.8965	19.03	20.13	39.16	69.54	-30.38	peak

Note1:

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

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

Margin = Emission Level- Limit.

Test Frequency : 30MHz ~ 1GHz

Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode	Mode 4



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	99.8777	48.13	-20.13	28.00	43.50	-15.50	QP
2	193.0945	51.09	-19.49	31.60	43.50	-11.90	QP
3 *	275.1570	53.55	-17.15	36.40	46.00	-9.60	QP
4	299.3158	51.31	-16.41	34.90	46.00	-11.10	QP
5	348.0274	42.48	-15.58	26.90	46.00	-19.10	QP
6	774.1584	32.82	-9.12	23.70	46.00	-22.30	QP

Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode	Mode 4



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.7016	47.88	-16.28	31.60	40.00	-8.40	QP
2 !	50.2324	52.06	-16.66	35.40	40.00	-4.60	QP
3 *	58.2030	53.17	-17.37	35.80	40.00	-4.20	QP
4	78.1388	51.97	-20.67	31.30	40.00	-8.70	QP
5	92.1386	53.21	-20.61	32.60	43.50	-10.90	QP
6	105.6415	53.93	-19.53	34.40	43.50	-9.10	QP

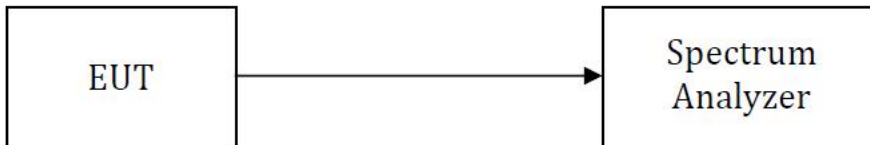
4. -20 dB Bandwidth Measurement

4.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.215&RSS-Gen Section 6.7

Test Method: ANSI C63.10-2020+Cor 1+2023

4.2.Test Setup

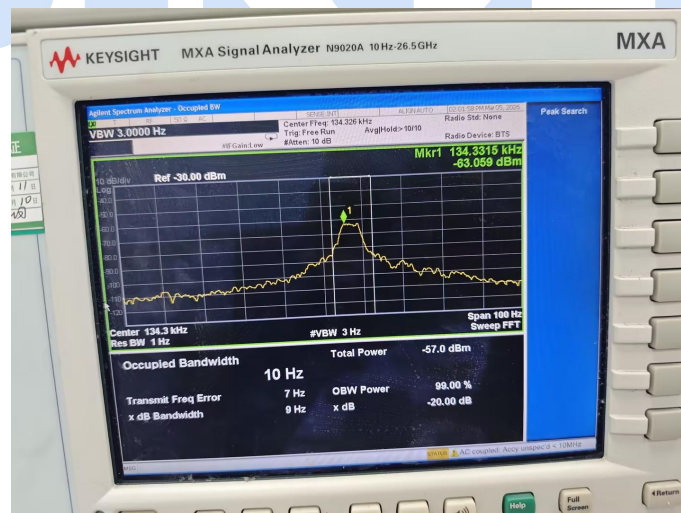


4.3.Test Procedure

1. Set the spectrum analyzer: RBW = 1%-5% OBW
2. Set the video bandwidth (VBW) $\geq 3 \times$ 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

4.4.Test Result

Mode	Frequency (MHz)	Antenna	-20dB OBW (MHz)
TX	0.134	Ant1	0.000009



5. Antenna Requirement

According to the FCC Part 15 Paragraph 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. This product has an coil antenna fulfill the requirement of this section.



6. Test Photographs

Please see Attachment BKC26020730BE-3.

7. Appendix I: Photos of the EUT

Please see Attachment BKC26020730BE-4 and -5.

