

TEST REPORT FCC ID: 2BA8X-JR-ZS423

Report No.: DL-241211026ER

Applicant: Shenzhen Nito Power Source Technology Co., Ltd.

Address: 201-7, Building 2, Shihua Lixing Fengda Industrial Factory, No. 49 Wuhe Avenue South,

Wuhe Community, Bantian Street, Longgang District, Shenzhen

Manufacturer: Shenzhen Nito Power Source Technology Co., Ltd.

Address: 201-7, Building 2, Shihua Lixing Fengda Industrial Factory, No. 49 Wuhe Avenue South,

Wuhe Community, Bantian Street, Longgang District, Shenzhen

EUT: Magnetic Wireless Car Charger Holder

Trade Mark: JOYROOM

Model Number: JR-ZS423

Date of Receipt: Dec. 11, 2024

Test Date: Dec. 11, 2024 - Dec. 18, 2024

Date of Report: Dec. 18, 2024

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

101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1

Address: Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen,

China

Applicable FCC PART 15 Subpart C Standards: ANSI C63.10:2013

Test Result: Pass

Report Number: DL-241211026ER

Prepared (Engineer): Alisa Song

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang

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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VERSION

0	Version No.		Date			Description					
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TEST SUMMARY

			0.				
EMC Emission							
Test Item	Section in CFR 47	Result	Remark				
AC Power Line Conducted Emission	15.207	PASS	0)				
Spurious Emission	15.209(a)(f)	PASS					
20dB Bandwidth	15.215	PASS					
Antenna requirement	15.203	PASS	-01				

NOTE:

Address:

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

Test Lab:

Shenzhen DL Testing Technology Co., Ltd. 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

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3. GENERAL INFORMATION

3.1 Description of Device (EUT)

Product Name: Magnetic Wireless Car Charger Holder

Trade Mark: JOYROOM Model No.: JR-ZS423

Model Difference: N/A
Serial No.: N/A
Hardware version: H1.0
Software version: S1.0

Operation Frequency: 115kHz ~ 205KHz

Modulation type: MSK

Antenna Type: Inductive loop coil Antenna

Antenna gain: 0dBi

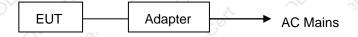
Input: 5V....2A, 9V....2A, 12V....2A

Power supply: 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 Phone Output Mode(5W) Mode2. Wireless Phone Output Mode(7.5W) Mode3. Wireless Phone Output Mode(10W) Mode4. Wireless Phone Output Mode(15W) 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 mode4.

3.5 Test Auxiliary Equipment

Adapter (Provide by test lab):

Manufacturer: XIAOMI

Mobile phone (Provide by test lab):

Model: AD65G

Manufacturer: SAMSUNG
Model: Galaxy S21 5G

Model: ABOSS
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

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3.6 Test Uncertainty

Conducted Emission Uncertainty(150KHz-30MHz) : ±2.56dB

20dB Bandwidth : ±0.5kHz

Radiated Emission Uncertainty(9KHz-1GHz) : ±3.24dB

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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

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For Radiated Emission Test (966 chamber)

Manufacturer	Model	Serial	Last Cal.	Next Cal.
YIHENG	966 Room	966	Nov. 06, 2023	Nov. 05, 2026
Agilent	E4408B	MY50140780	Nov. 01, 2024	Oct. 31, 2025
C R&S	ESRP7	101393	Nov. 01, 2024	Oct. 31, 2025
Schwarzbeck	BBV9743B	00153	Nov. 01, 2024	Oct. 31, 2025
EMEC	EM01G8GA	00270	Nov. 01, 2024	Oct. 31, 2025
Schwarzbeck	VULB9162	00306	Nov. 02, 2024	Nov. 01, 2025
Schwarzbeck	BBHA9120D	02139	Nov. 02, 2024	Nov. 01, 2025
ZHINAN	ZN30900A	37 8	Nov. 01, 2024	Oct. 31, 2025
ChengYu	966	004	Nov. 01, 2024	Oct. 31, 2025
ChengYu	966	003	Nov. 01, 2024	Oct. 31, 2025
	YIHENG Agilent R&S Schwarzbeck EMEC Schwarzbeck Schwarzbeck ZHINAN ChengYu	YIHENG 966 Room Agilent E4408B R&S ESRP7 Schwarzbeck BBV9743B EMEC EM01G8GA Schwarzbeck VULB9162 Schwarzbeck BBHA9120D ZHINAN ZN30900A ChengYu 966	YIHENG 966 Room 966 Agilent E4408B MY50140780 R&S ESRP7 101393 Schwarzbeck BBV9743B 00153 EMEC EM01G8GA 00270 Schwarzbeck VULB9162 00306 Schwarzbeck BBHA9120D 02139 ZHINAN ZN30900A / ChengYu 966 004	YIHENG 966 Room 966 Nov. 06, 2023 Agilent E4408B MY50140780 Nov. 01, 2024 R&S ESRP7 101393 Nov. 01, 2024 Schwarzbeck BBV9743B 00153 Nov. 01, 2024 EMEC EM01G8GA 00270 Nov. 01, 2024 Schwarzbeck VULB9162 00306 Nov. 02, 2024 Schwarzbeck BBHA9120D 02139 Nov. 02, 2024 ZHINAN ZN30900A / Nov. 01, 2024 ChengYu 966 004 Nov. 01, 2024

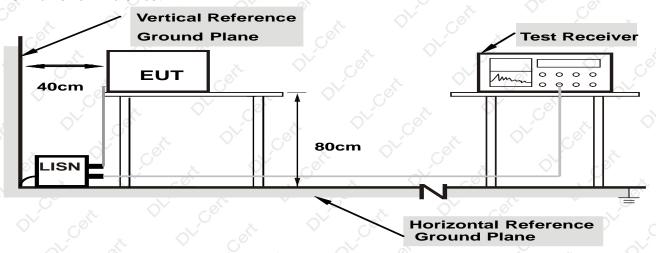
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5. CONDUCTED EMISSION TEST

5.1 Block Diagram of Test Setup

For Mains Terminals Test



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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	Limits o	//B(μV)
MHz	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.

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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.

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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

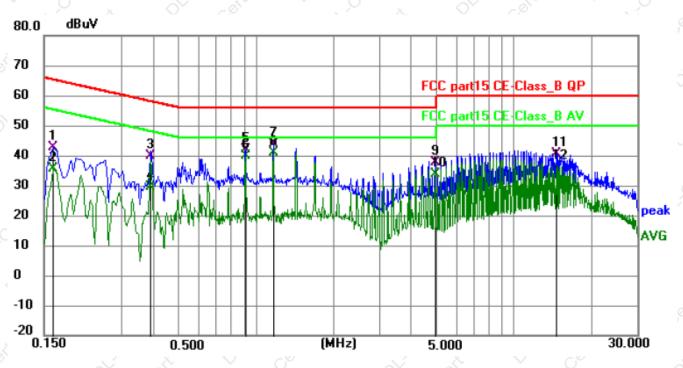
PASS

Please refer to the following page.

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Conducted Emission Test Data								
Temperature:	24.5 ℃	Relative Humidity:	54%					
Pressure:	1009hPa	Phase:	Line					
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 4					

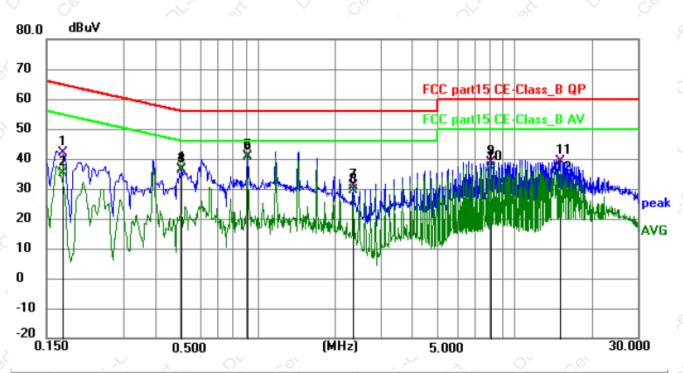


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)		P/F	Remark
1	0.1635	32.62	10.04	42.66	65.28	-22.62	QP	Р	
2	0.1635	25.35	10.04	35.39	55.28	-19.89	AVG	Р	
3	0.3885	29.59	10.26	39.85	58.10	-18.25	QP	Р	
4	0.3885	19.10	10.26	29.36	48.10	-18.74	AVG	Р	
5	0.9105	31.98	10.05	42.03	56.00	-13.97	QP	Р	
6	0.9105	29.69	10.05	39.74	46.00	-6.26	AVG	Р	
7	1.1670	33.66	10.04	43.70	56.00	-12.30	QP	Р	
8 *	1.1670	30.84	10.04	40.88	46.00	-5.12	AVG	Р	
9	4.9470	27.39	10.38	37.77	56.00	-18.23	QP	Р	
10	4.9470	23.43	10.38	33.81	46.00	-12.19	AVG	Р	
11	14.5365	28.95	11.64	40.59	60.00	-19.41	QP	Р	
12	14.5365	24.78	11.64	36.42	50.00	-13.58	AVG	Р	

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		-05	, O
	Conducte	d Emission Test Data	
Temperature:	24.5 °C	Relative Humidity:	54%
Pressure:	1009hPa	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	Remark
1	0.1749	31.97	10.15	42.12	64.72	-22.60	QP	Р	
2	0.1749	25.01	10.15	35.16	54.72	-19.56	AVG	Р	
3	0.5055	26.09	10.14	36.23	56.00	-19.77	QP	Р	
4	0.5055	26.40	10.14	36.54	46.00	-9.46	AVG	Р	
5	0.9150	30.96	10.08	41.04	56.00	-14.96	QP	Р	
6 '	0.9150	30.58	10.08	40.66	46.00	-5.34	AVG	Р	
7	2.3460	20.77	10.06	30.83	56.00	-25.17	QP	Р	
8	2.3460	19.27	10.06	29.33	46.00	-16.67	AVG	Р	
9	8.0790	27.98	10.90	38.88	60.00	-21.12	QP	Р	
10	8.0790	25.95	10.90	36.85	50.00	-13.15	AVG	Р	
11	14.9955	27.36	11.58	38.94	60.00	-21.06	QP	Р	
12	14.9955	21.68	11.58	33.26	50.00	-16.74	AVG	Р	

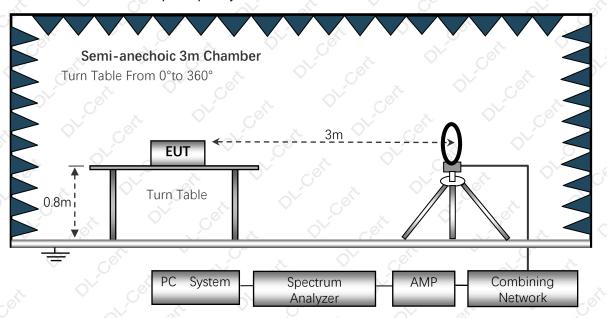
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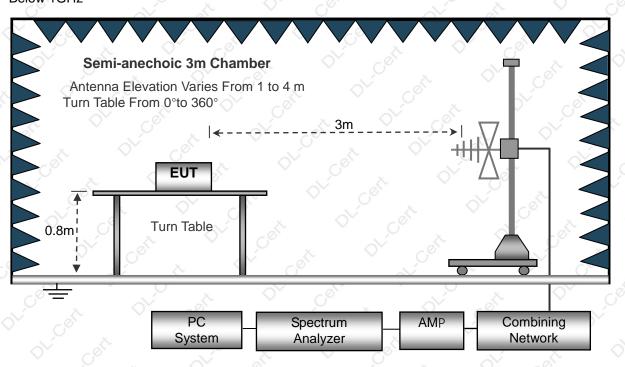


6. RADIATION EMISSION TEST

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

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Limits for frequency below 30MHz

(//		8)		
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	

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Above 30MHz

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBμV/m)	Remark
30 ~ 88	x 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
	Or Carr	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

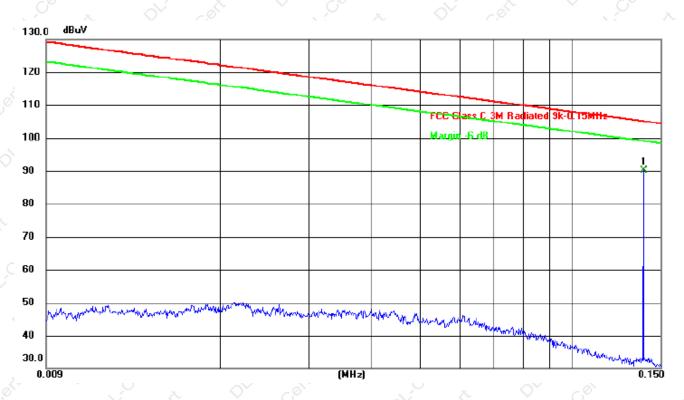
PASS, Please refer to the following page.

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Radiation Emission Test Data 9 kHz~0.15MHz						
Temperature:	24.5 ℃	Relative Humidity:	54%			
Pressure:	1009hPa	Polarization:	1 000			
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 4			

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z	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
	0.1386	90.16	9.13	99.29	105.04	-5.75	AVERAGE

Note:

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

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

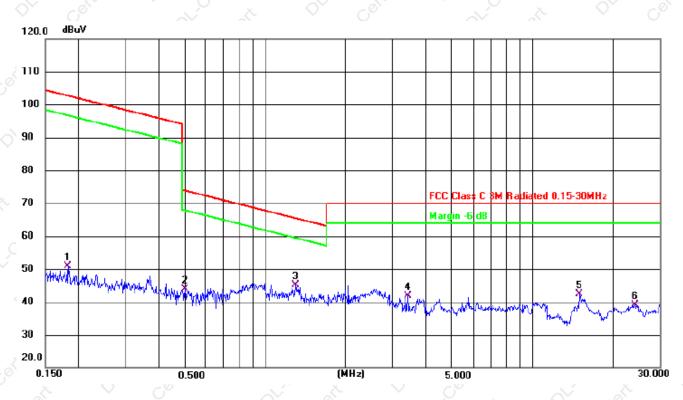
Margin = Emission Level(Meter Reading+ Factor) - Limit.

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Radiation Emission Test Data 0.15MHz~30 MHz						
Temperature:	24.5 ℃	Relative Humidity:	54%			
Pressure:	1009hPa	Polarization:	/ 200			
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 4			

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
0.1833	50.32	9.15	59.47	102.6	-43.13	QP
0.4993	43.72	9.72	53.44	73.83	-20.39	QP O
1.2960	45.94	9.31	55.25	65.42	-10.17	QP
3.4174	43.90	9.36	53.26	70	-16.74	QP
14.9068	43.26	8.44	51.70	70	-18.30	QP
24.1422	39.64	9.52	49.16	70	-20.84	QP

Note:

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

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

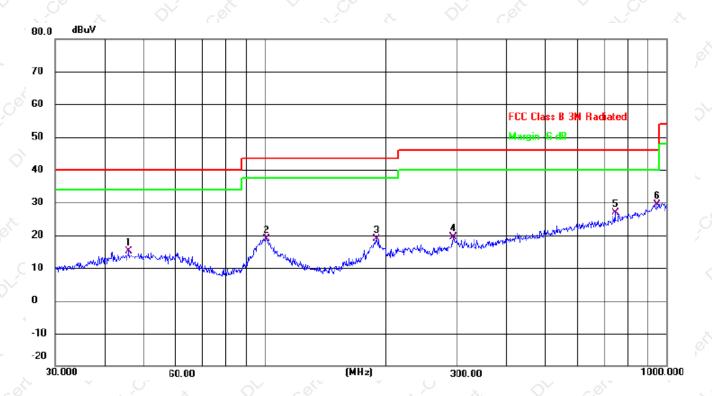
Margin = Emission Level(Meter Reading+ Factor) - Limit.

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Radiation Emission Test Data						
Temperature:	24.5 ℃	Relative Humidity:	54%			
Pressure:	1009hPa	Polarization:	Horizontal			
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 4			

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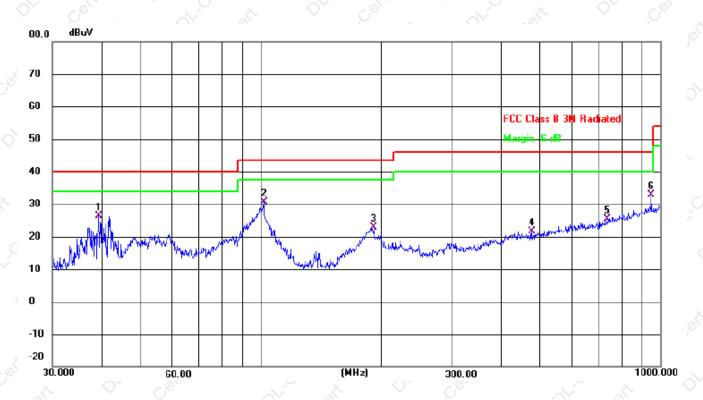


	No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
_		MHz	dBuV	dB	dBuV	dB	dB	Detector
	1	45.8553	27.66	-12.65	15.01	40.00	-24.99	QP
-	2	100.9339	33.62	-14.72	18.90	43.50	-24.60	QP
	3	189.7385	34.38	-15.50	18.88	43.50	-24.62	QP
	4	294.1137	31.42	-12.11	19.31	46.00	-26.69	QP
	5	744.8661	30.18	-3.25	26.93	46.00	-19.07	QP
	6 *	948.7610	29.65	-0.27	29.38	46.00	-16.62	QP

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Radiation Emission Test Data						
Temperature:	24.5 ℃	Relative Humidity:	54%			
Pressure:	1009hPa	Polarization:	Vertical			
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 4			



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dB	dB	Detector
1	39.2991	40.66	-14.30	26.36	40.00	-13.64	QP
2 *	101.6443	45.57	-14.90	30.67	43.50	-12.83	QP
3	191.7450	38.45	-15.65	22.80	43.50	-20.70	QP
4	475.4991	29.44	-7.89	21.55	46.00	-24.45	QP
5	737.0714	28.41	-3.15	25.26	46.00	-20.74	QP
6	948.7610	33.16	-0.27	32.89	46.00	-13.11	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.

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7. BANDWIDTH TEST

- 7.1 TEST SETUP
- 1. Set RBW = 3kHz.
- 2. Set the video bandwidth (VBW) \geq 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.

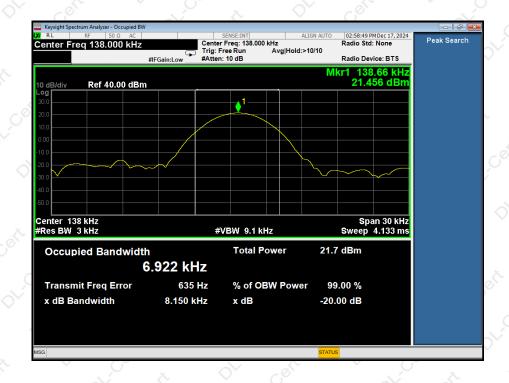
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7.2 TEST SETUP



7.3 TEST Result

Frequency (KHz)	20dB bandwidth (KHz)	Result	
138	8.150	Pass	



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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.

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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 ***

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