FCC RADIO TEST REPORT

Applicant : Kaijet Technology International Corporation

Address 8F., No. 109, Zhongcheng Road, Tucheng Dist., New Taipei City, Taiwan

R.O.C

Equipment: Wood Grain 2-in-1 Magnetic Wireless Charging Stand

Model No. : JUPW2106, JUPW2106NP

Trademark : **Screate**

FCC ID : 2AD37JUPW2106

I HEREBY CERTIFY THAT:

The sample was received on Apr. 12, 2022 and the test items were conducted during Jun. 20, 2022 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Leevin Li / Supervisor

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History of this test report

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■ Original.

 \square Additional attachment as following record:

Attachment No.	Issue Date	Description
DEFC2203125	Jul. 01, 2022	Initial Issue

1. Report of Measurements and Examinations

1.1 List of Measurements and Examinations

FCC CFR Title 47 Part 15 Subpart C Section 15.209

FCC Rule	. Description of Test	Result		
§ 15.203	. Antenna Requirement	Pass		
§ 15.207(a)	. Conducted Emission	Pass		
§ 15.209(a)	. Radiated Emission	Pass		
§ 15.215 20dB Bandwidth		Pass		
Note: Deviations Ves II No				

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Note: Deviations Yes ☐ No ■

^{*}The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement.

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Product	Wood Grain 2-in-1 Magnetic Wireless Charging Stand
Test Model	JUPW2106 , JUPW2106NP
Model Discrepancy	All models are identical except for the name. The tested model: JUPW2106
Frequency Range	110.5KHz -205KHz
Antonno Tuno	Wireless1: Coil antenna
Antenna Type	Wireless2: Coil antenna
Power Rating	Input:5.0V==3.0A, 9.0V==2.22A (20.0W Max) Wireless Output: Magnetic:7.5V (7.5W Max), 9.0V (10.0W Max) Stand:5.0V (5.0W Max) Total:15.0W (Max)
Temperature	Operating Temp: -10℃~+35℃

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Note: For more details, please refer to the User's manual of the EUT.

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2.2 Description of the test mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

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The EUT was tested under the following modes, the worst mode was recorded in this report.

The EOT was tested under the following modes, the worst mode was recorded in this report.				
For Conducted Emission				
Pre-tested Mode: Description				
Mode 1	Wireless1 Charging for Standby+Wireless2 Charging for Standby for AC120V			
Mode 2	Wireless1 Charging for 5W+Wireless2 Charging for 5W for AC120V			
Mode 3	Wireless1 Charging for 7.5W+Wireless2 Charging for 5W for AC120V			
Mode 4	Wireless1 Charging for 10W+Wireless2 Charging for 5W for AC120V			
Mode 5	Wireless1 Charging for 7.5W+Wireless2 Charging for 5W for AC240V			
Final test Mode	Description			
Mode 5	Wireless1 Charging for 7.5W+Wireless2 Charging for 5W for AC240V			
For Radiated Emis	esion			
Pre-tested Mode:	Description			
Mode 1	Wireless1 Charging for Standby+Wireless2 Charging for Standby for AC120V			
Mode 2	Wireless1 Charging for 5W+Wireless2 Charging for 5W for AC120V			
Mode 3	Wireless1 Charging for 7.5W+Wireless2 Charging for 5W for AC120V			
Mode 4	Wireless1 Charging for 10W+Wireless2 Charging for 5W for AC120V			
Mode 5	Wireless1 Charging for 7.5W+Wireless2 Charging for 5W for AC240V			
Final test Mode Description				
Mode 5	Wireless1 Charging for 7.5W+Wireless2 Charging for 5W for AC240V			

Note: The EUT Have two coils, the specific location is shown below:

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2.3 Description of Test System

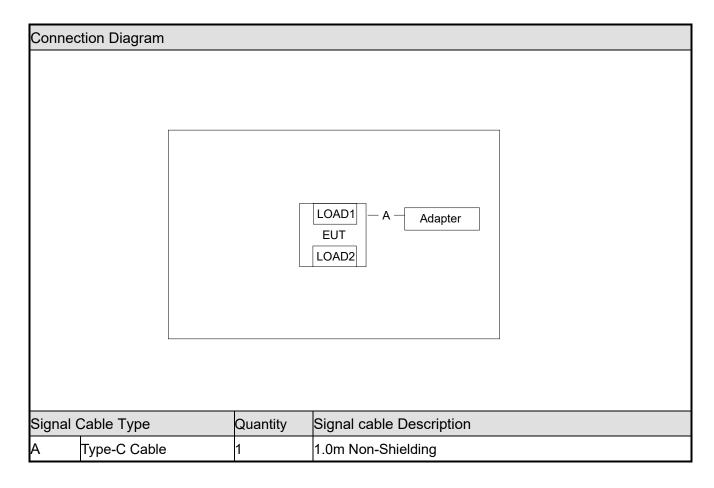
Р	Product	Manufacturer	Model No.	Power Cord
1	Adapter	j5 create	20W PD	N/A
	Load 1	YBZ	Intelligent RX full function	
ľ	Load I		test module	N/A
	Lood 2	VD7	Intelligent RX full function	
S	Load 2	YBZ	test module	N/A

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2.4 General Information of Test

Test Site	Cerpass Technology Corporation(Cerpass Laboratory) Address: Room 102, No. 5, Xing'an Road, Chang'an Town, Dongguan City, Guangdong Province Tel: +86-769-8547-1212 Fax: +86-769-8547-1912				
FCC Designation No.:	CN1288				
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz				
Test Distance:	9KHz~30MHz: radiated emission from antenna to EUT is 3 M. 30MHz~1GHz: radiated emission from antenna to EUT is 3 M.				

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Test Item	Test Site	Test period	Environmental Conditions	Tested By
Radiated Emissions	3M02-DG	2022/06/20	26°C / 60%	Amos Zhang
AC Power Line Conducted Emission	CON01-DG	2022/06/20	26°C / 55%	Amos Zhang

2.5 Measurement Uncertainty

Conducted Emission	Conducted Emission				
The measurement ur	The measurement uncertainty is evaluated as ± 3.17 dB.				
Radiated Emission					
(9KHz -30MHz)	The measurement uncertainty is evaluated as ±4.99dB.				
(30MHz -1000MHz) The measurement uncertainty is evaluated as ±4.39dB.					
(1000M-18000M) The measurement uncertainty is evaluated as ±5.36dB.					

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3. Test Equipment and Ancillaries Used for Tests

AC Power Line Conducted Emission					
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Test Receiver	R&S	ESCI	100564	2022.01.08	2023.01.07
LISN	SCHWARZBECK	NSLK 8127	8127748	2022.01.08	2023.01.07
LISN	R&S	ENV216	100024	2022.01.08	2023.01.07
ISN	TESEQ	ISN T800	42809	2022.05.07	2023.05.06
Pulse Limiter with 10dB Attenuation	SCHWARZBECK	VTSD 9561-F	9561-F106	2022.01.08	2023.01.07
Temperature/ Humidity Meter	GEMLEAD	STH200A	N/A	2021.08.17	2022.08.16

Radiated Emissions					
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Test Receiver	R&S	ESCI	100563	2022.05.07	2023.05.06
H64 Preamplifier	HP	8447F	3113A05582	2022.01.08	2023.01.07
Loop Antenna	R&S	HFH2-Z2	100150	2022.05.11	2024.05.10
Bilog Antenna	Sunol Science	JB1	A072414-1	2020.11.25	2022.11.24
Temperature/ Humidity Meter	GEMLEAD	STH200A	N/A	2021.08.17	2022.08.16

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4. Antenna Requirements

4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

4.2 Antenna Construction

The antenna is Coil Antenna, and the antenna connector is de-signed with permanent attachment and on consideration of replacement. Please see the EUT photo for details.

4.3 Result

The EUT antenna is Loop Antenna. It complies with the standard requirement.

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5. Test of Conducted Emission

5.1 Test Limit

According to §15.207: For all the consumer devices which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

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Frequency (MHz)	Quasi Peak (dB µ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 - 5.0	56	46
5.0 – 30.0	60	50

Remark: (1)*Decreases with the logarithm of the frequency.

(2) The lower limit shall apply at the transition frequency.

5.2 Test Procedures

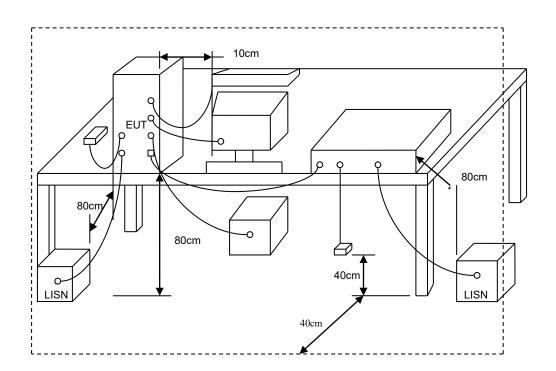
- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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5.3 Typical Test Setup



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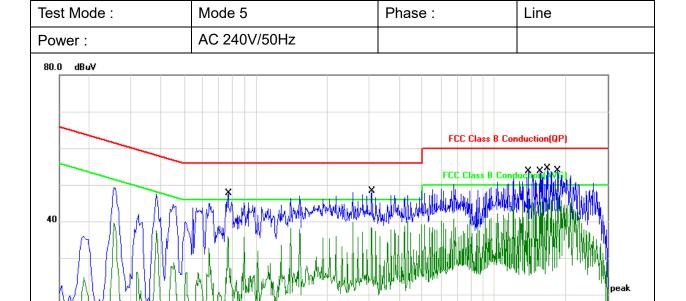
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5.4 Test Result and Data



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AVG

30.000

No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.7700	9.76	34.55	44.31	56.00	-11.69	QP
2	0.7700	9.76	25.66	35.42	46.00	-10.58	AVG
3	3.0740	9.84	35.27	45.11	56.00	-10.89	QP
4	3.0740	9.84	28.23	38.07	46.00	-7.93	AVG
5	13.9500	10.10	25.94	36.04	60.00	-23.96	QP
6	13.9500	10.10	13.55	23.65	50.00	-26.35	AVG
7	15.6140	10.13	25.70	35.83	60.00	-24.17	QP
8	15.6140	10.13	13.29	23.42	50.00	-26.58	AVG
9	16.7700	10.14	36.98	47.12	60.00	-12.88	QP
10	16.7700	10.14	27.49	37.63	50.00	-12.37	AVG
11	18.5580	10.17	25.63	35.80	60.00	-24.20	QP
12	18.5580	10.17	15.06	25.23	50.00	-24.77	AVG

(MHz)

Note: Measurement Level = Reading Level + Correct Factor+ Attenuator

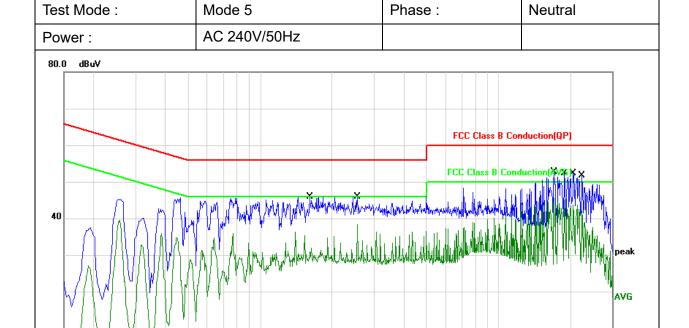
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0.5

0.150

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No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	1.6180	9.83	29.18	39.01	56.00	-16.99	QP
2	1.6180	9.83	18.64	28.47	46.00	-17.53	AVG
3	2.5620	9.85	30.85	40.70	56.00	-15.30	QP
4	2.5620	9.85	27.03	36.88	46.00	-9.12	AVG
5	17.1700	10.29	37.56	47.85	60.00	-12.15	QP
6	17.1700	10.29	28.08	38.37	50.00	-11.63	AVG
7	18.9700	10.30	40.26	50.56	60.00	-9.44	QP
8	18.9700	10.30	33.32	43.62	50.00	-6.38	AVG
9	20.6380	10.30	39.39	49.69	60.00	-10.31	QP
10	20.6380	10.30	32.16	42.46	50.00	-7.54	AVG
11	22.4340	10.33	38.33	48.66	60.00	-11.34	QP
12	22.4340	10.33	30.04	40.37	50.00	-9.63	AVG

(MHz)

5

30.000

Note: Measurement Level = Reading Level + Correct Factor+ Attenuator

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6. Test of Radiated Emission

6.1 Test Limit

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by According to §15.209(a), for a intentional device, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following valueses:

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Radiated Emission Limit (9KHz~1000MHz)

taalatoa Illinoolon Illino (ortiil 1000iiii.)					
FREQUENCIES(MHz)	FIELD STRENGTH(microvolts/meter)	MEASUREMENT DISTANCE(meters)			
0.009~0.490	2400/F(kHz)	300			
0.490~1.705	24000/F(kHz)	30			
1.705~30.0	30	30			
30~88	100	3			
88~216	150	3			
216~960	200	3			
Above 960	500	3			

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level(uV/m)

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6.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 1/3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.

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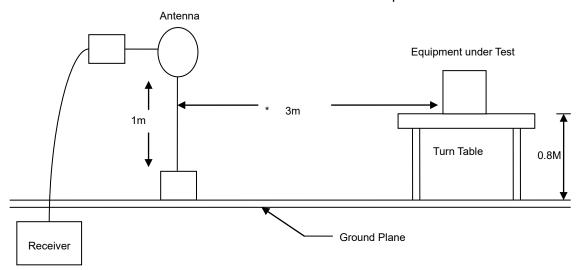
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

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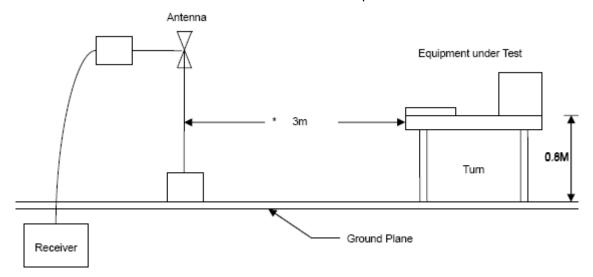
6.3 Typical Test Setup

Below 30MHz Test Setup

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30M - 1GHz Test Setup

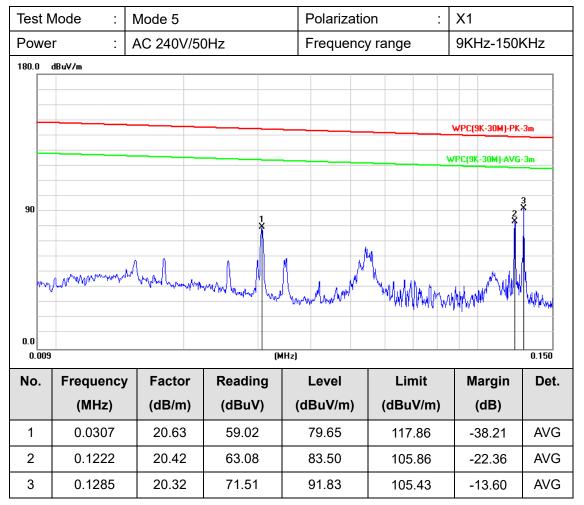


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6.4 Test Result and Data

For 9KHz~30MHz

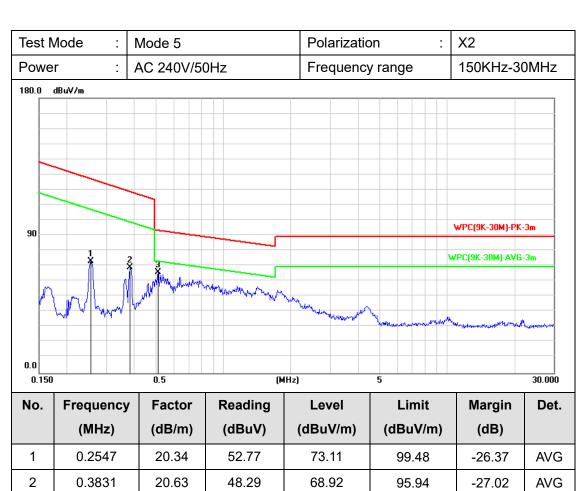


Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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65.76

73.45

-7.69

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Note: Level = Reading + Factor Margin = Level – Limit

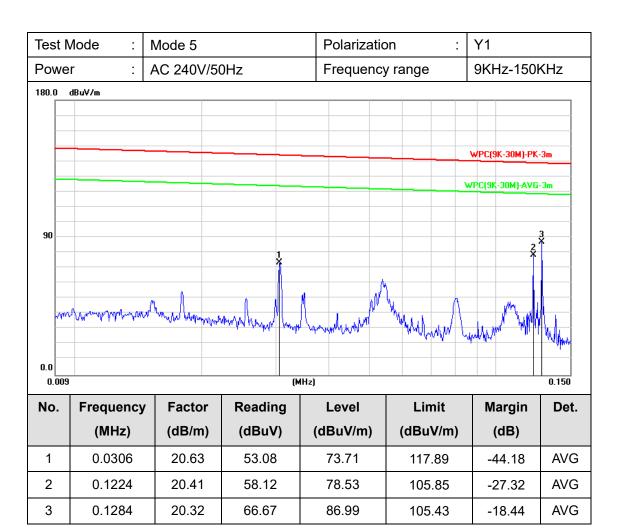
0.5100

3

Factor = Antenna Factor + Cable Loss - Amplifier Factor

44.86

20.90



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Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

Test Mode Mode 5 Polarization Y2 Power AC 240V/50Hz Frequency range 9KHz-150KHz 180.0 dBuV/m WPC(9K-30M)-PK-3m 90 WPC(9K-30M)-AVG-3m 0.0 30.000 0.150 0.5 (MHz) No. **Frequency Factor** Reading Level Limit Margin Det. (MHz) (dB/m) (dBuV) (dBuV/m) (dBuV/m) (dB) 1 0.2562 20.34 48.22 68.56 99.43 -30.87 AVG 2 43.42 0.3852 20.64 64.06 95.89 -31.83 AVG

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Note: Level = Reading + Factor Margin = Level – Limit

0.5101

3

Factor = Antenna Factor + Cable Loss - Amplifier Factor

45.33

66.23

73.45

-7.22

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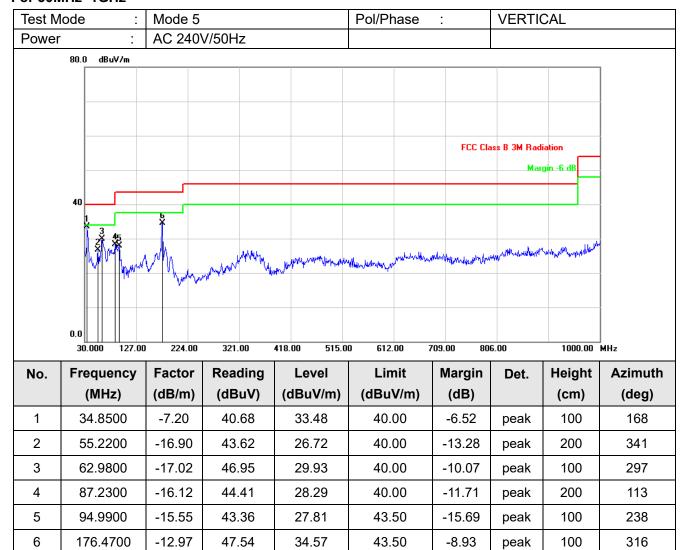
QP

20.90



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For 30MHz~1GHz

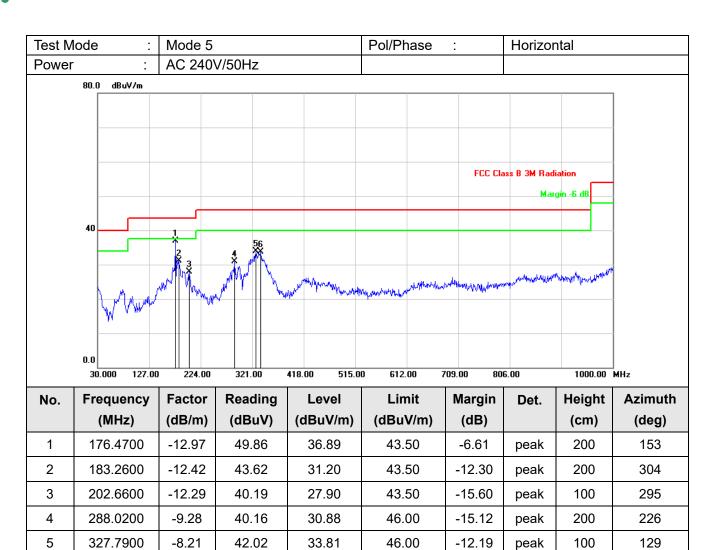


Note: Level = Reading + Factor Margin = Level – Limit

Factor = Antenna Factor + Cable Loss - Amplifier Factor

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Note: Level = Reading + Factor Margin = Level – Limit

337.4900

6

Factor = Antenna Factor + Cable Loss - Amplifier Factor

41.87

33.69

46.00

-12.31

200

peak

352

-8.18

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7. 20dB Bandwidth

7.1 Test Limit

None: for reporting purposed only.

7.2 Test Procedures

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §15.215, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates is contained within the frequency band designated in the rule section under which the equipment is operated.

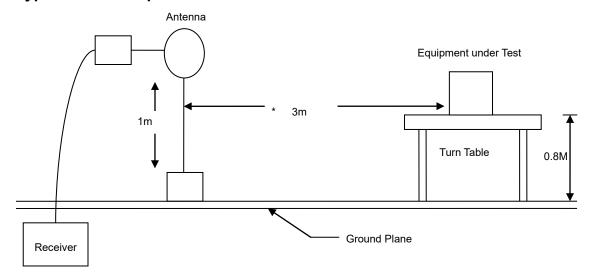
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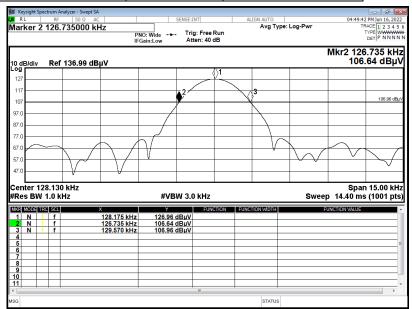
7.3 Typical Test Setup



7.4 Test Result and Data

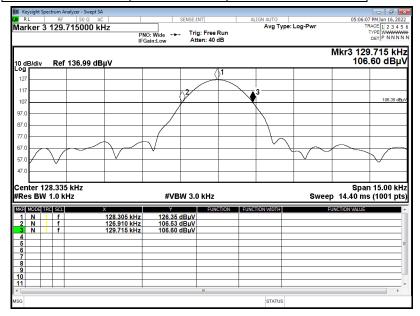
Wireless 1

Frequency range	Test frequency (kHz)	20 dB bandwidth (kHz)	
110KHz~205KHz	128.13KHz	2.835	



Wireless 2

Frequency range	Test frequency (kHz)	20 dB bandwidth (kHz)	
110KHz~205KHz	128.335KHz	2.805	



----- End of the report -----

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