ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT

OF

MAGFAST POWER BANK

Model No.: PBK5KB, PBK5KA

FCC ID: 2BM7E-PBK5KB

Report No.: E04A24110871F00201

Issue Date: December 09, 2024

Prepared for

Omnibar LLC

11721 Whittier Blvd #255, Whittier, CA90601, Los Angeles, California

Prepared by

Guangdong Global Testing Technology Co., Ltd.

Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People’s Republic of China, 523808

VERIFICATION OF COMPLIANCE

Applicant Information

Company Name:	Omnibar LLC
Address:	11721 Whittier Blvd #255, Whittier, CA90601, Los Angeles, California

Manufacturer Information

Company Name:	Omnibar LLC
Address:	11721 Whittier Blvd #255, Whittier, CA90601, Los Angeles, California

EUT Information

Product Description:	MAGFAST POWER BANK
Model:	PBK5KB, PBK5KA
Brand:	OMNIBAR
Sample Received Date:	November 26, 2024
Sample Status:	Normal
Sample ID:	A24110871 002
Date of Tested:	November 26, 2024 to November 29, 2024

We hereby certify that:

The above equipment was tested by Guangdong Global Testing Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.209(2022).

Prepared By:

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Project Engineer

Checked By:

Alan He

Alan He

Laboratory Leader

Approved By

Shawn Wen

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Guangdong Global Testing Technology Co., Ltd. * CERTIFICATE *

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E04A24110871F00201

Table of Contents

1 General Information

1.1 Product Description

Characteristics	Description
Product Name	MAGFAST POWER BANK
Model number	PBK5KB
Operation Mode	Wireless Charging
Input Rating	5V⎓3A, 9V⎓2A(18W Max)
Power Supply	AC120V/60Hz from Adapter
Operating Frequency	110-205KHz
Wireless Charging Power	5W/7.5W/10W/15W
Modulation Technique	ASK
Antenna Type	Coil Antenna
Software version	V1.0
Hardware version	V1.0

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2BM7E-PBK5KB filing to comply with the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

1.6 Test Facility

Accreditation Certificate	**A2LA (Certificate No.: 6947.01)** Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1343)** Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules **ISED (Company No.: 30714)** Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People’s Republic of China, 523808

2 System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the fixed in a particular direction according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

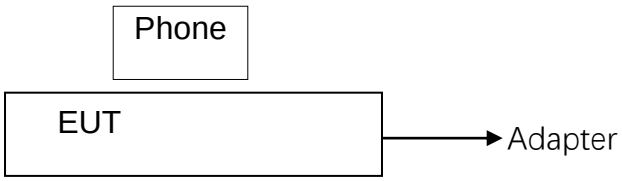


Table 2-1 Description of Support Device

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	phone	Apple	A1524	N/A	GTG Support
2	Adapter	Xiaomi	580245A087	N/A	GTG Support

Note:

(1) Unless otherwise denoted as EUT in『Remark』column, device(s) used in tested system is a support equipment.

3 Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207	AC Power Conducted Emission	Compliant
§15.209	Radiated Emission	Compliant
§2.1049	20dB Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

4 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
20dB Bandwidth	±9.2ppm
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Temperature	±0.5℃
Humidity	±3%

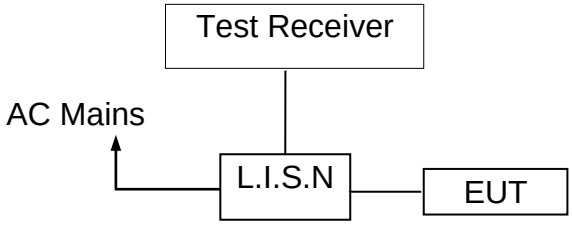
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%

5 Conducted Emissions Test

5.1 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. 3. Repeat above procedures until all frequency measured was complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2024/09/13	2025/09/12
LISN/AMN	Rohde & Schwarz	ENV216	102843	2024/09/13	2025/09/12
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2024/09/13	2025/09/12
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

5.4 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

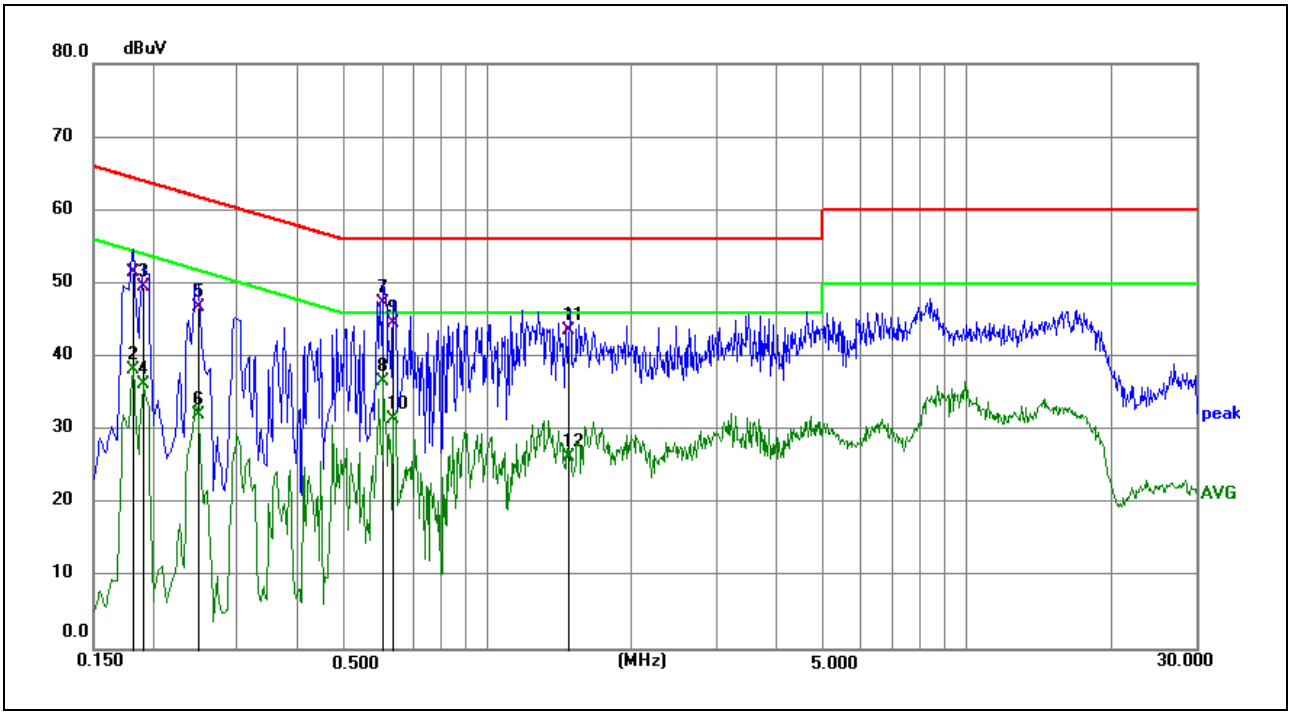
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.5 Measurement Result

Operation Mode:	TX	Test Date :	2024/11/27
Frequency Range:	0.15MHz~30MHz	Temperature :	22.4℃
Test Result:	PASS	Humidity :	53.2 %RH
Test By:	Fink		

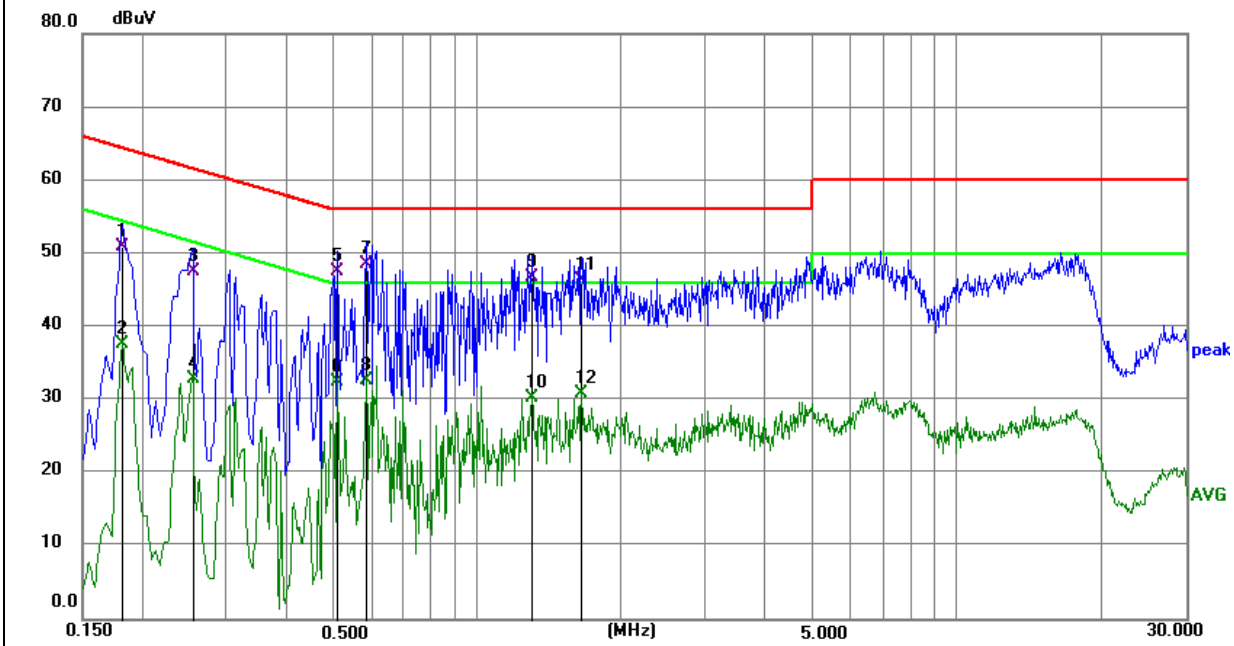
We pretested modes (Wireless Charging(15W), Wireless Charging (10W), Wireless Charging (7.5W), Wireless Charging(5W)) for EUT. The worst test data see follow the table.

Test mode: Wireless Charging 15W



Limit:	**FCC Part 15 C Conduction**	**Phase:**	**L1**
EUT:	**MAGFAST POWER BANK**	**Test Time:**	**2024-11-27**
M/N.:	**PBK5KB**	**Power Rating:**	**AC120V/60Hz**
Mode:	**Wireless Charging 15W**	**Test Engineer:**	**Fink**

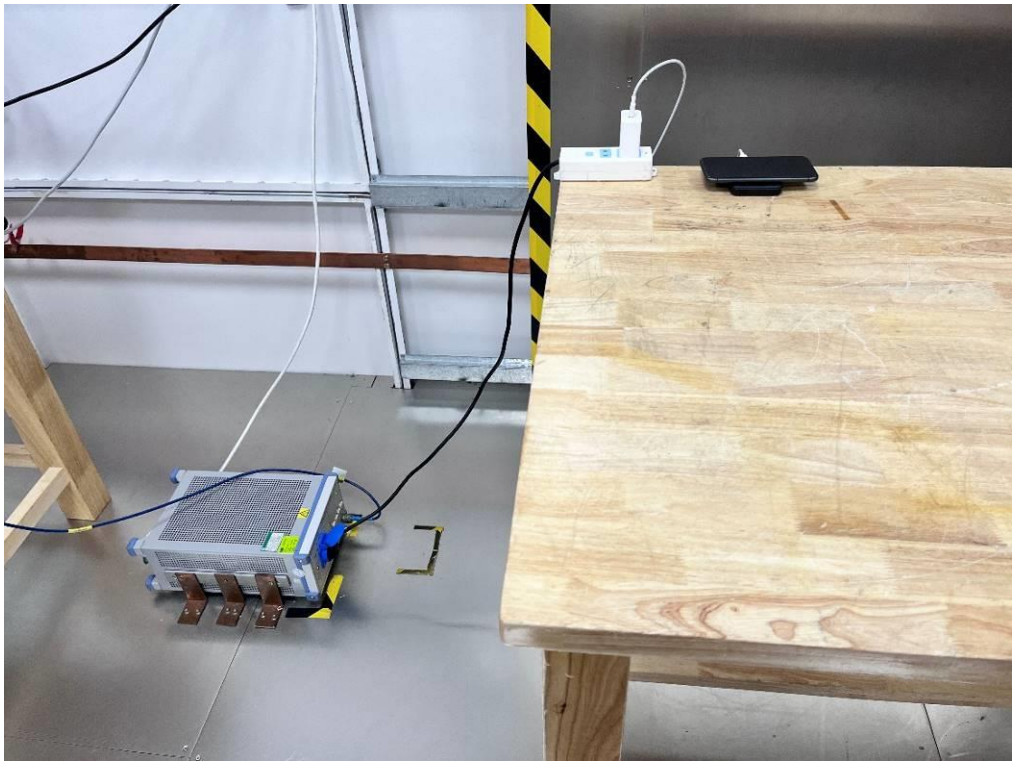
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1815	41.93	9.67	51.60	64.42	-12.82	QP
2	0.1815	28.47	9.67	38.14	54.42	-16.28	AVG
3	0.1905	39.90	9.68	49.58	64.01	-14.43	QP
4	0.1905	26.62	9.68	36.30	54.01	-17.71	AVG
5	0.2490	37.09	9.68	46.77	61.79	-15.02	QP
6	0.2490	22.46	9.68	32.14	51.79	-19.65	AVG
7	0.6045	37.68	9.69	47.37	56.00	-8.63	QP
8	0.6045	26.84	9.69	36.53	46.00	-9.47	AVG
9	0.6360	34.96	9.70	44.66	56.00	-11.34	QP
10	0.6360	21.82	9.70	31.52	46.00	-14.48	AVG
11	1.4819	33.87	9.72	43.59	56.00	-12.41	QP
12	1.4819	16.65	9.72	26.37	46.00	-19.63	AVG



Limit:	**FCC Part 15 C Conduction**	**Phase:**	**N**
EUT:	**MAGFAST POWER BANK**	**Test Time:**	**2024-11-27**
M/N.:	**PBK5KB**	**Power Rating:**	**AC120V/60Hz**
Mode:	**Wireless Charging 15W**	**Test Engineer:**	**Fink**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1815	41.16	9.77	50.93	64.42	-13.49	QP
2	0.1815	27.91	9.77	37.68	54.42	-16.74	AVG
3	0.2535	37.86	9.78	47.64	61.64	-14.00	QP
4	0.2535	23.08	9.78	32.86	51.64	-18.78	AVG
5	0.5100	37.74	9.79	47.53	56.00	-8.47	QP
6	0.5100	22.70	9.79	32.49	46.00	-13.51	AVG
7	0.5865	38.74	9.79	48.53	56.00	-7.47	AVG
8	0.5865	22.81	9.79	32.60	46.00	-13.40	QP
9	1.3020	36.90	9.81	46.71	56.00	-9.29	QP
10	1.3020	20.53	9.81	30.34	46.00	-15.66	AVG
11	1.6530	36.53	9.82	46.35	56.00	-9.65	QP
12	1.6530	21.06	9.82	30.88	46.00	-15.12	AVG

5.6 Conducted Measurement Photo



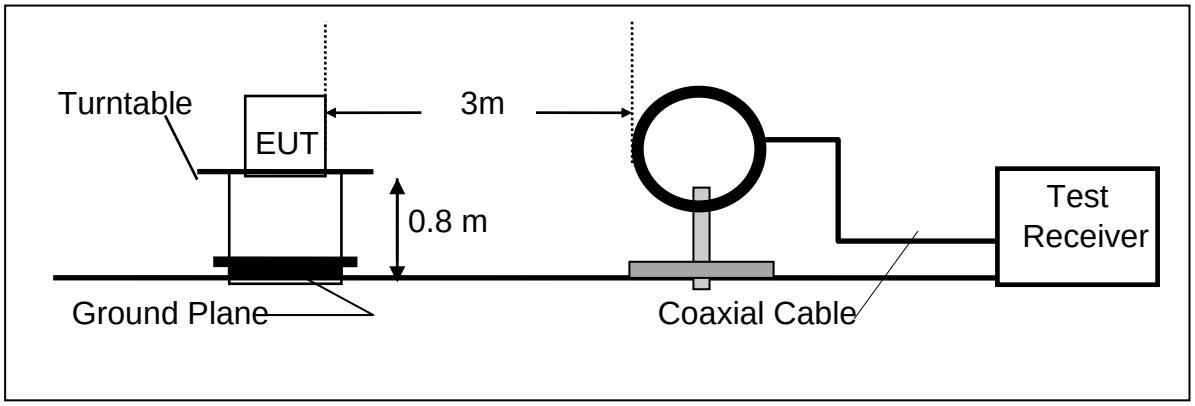
6 Radiated Emission Test

6.1 Measurement Procedure

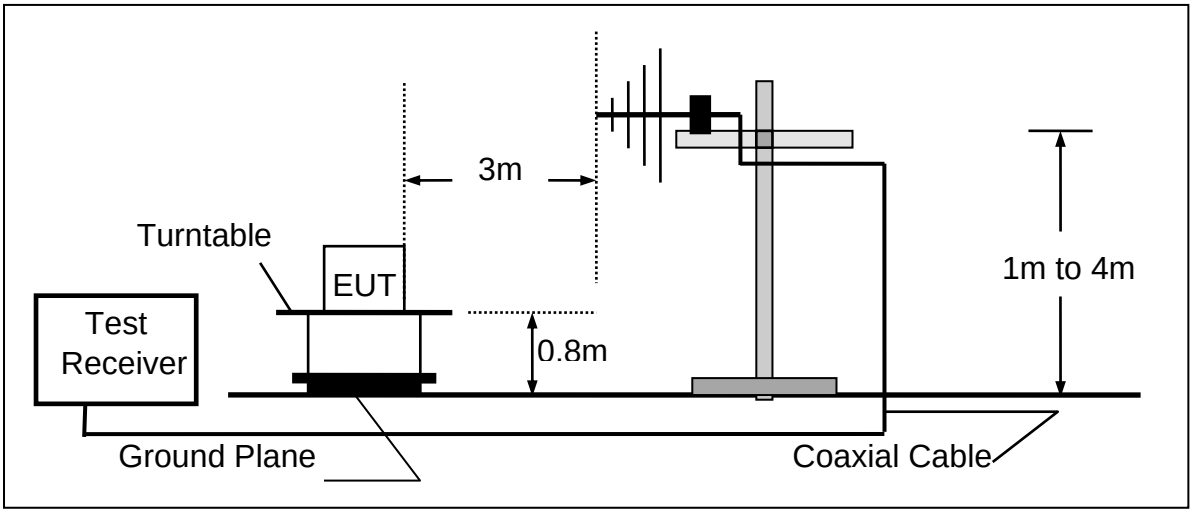
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



6.3 Measurement Equipment Used

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2024/09/13	2025/09/12
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/13	2025/09/12
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2024/09/13	2025/09/12
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243646	2022/03/23	2025/03/22
Loop Antenna	ETS	6502	243668	2022/03/30	2025/03/29
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

6.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

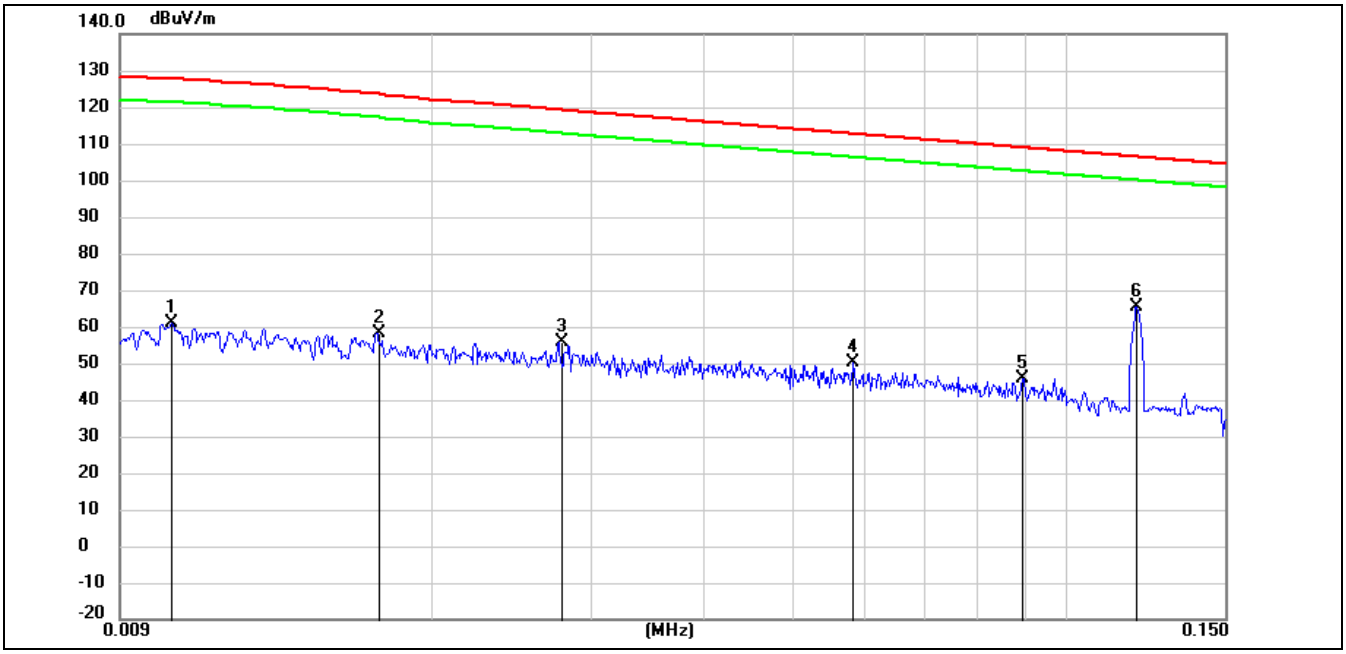
15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])

Remark: 1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

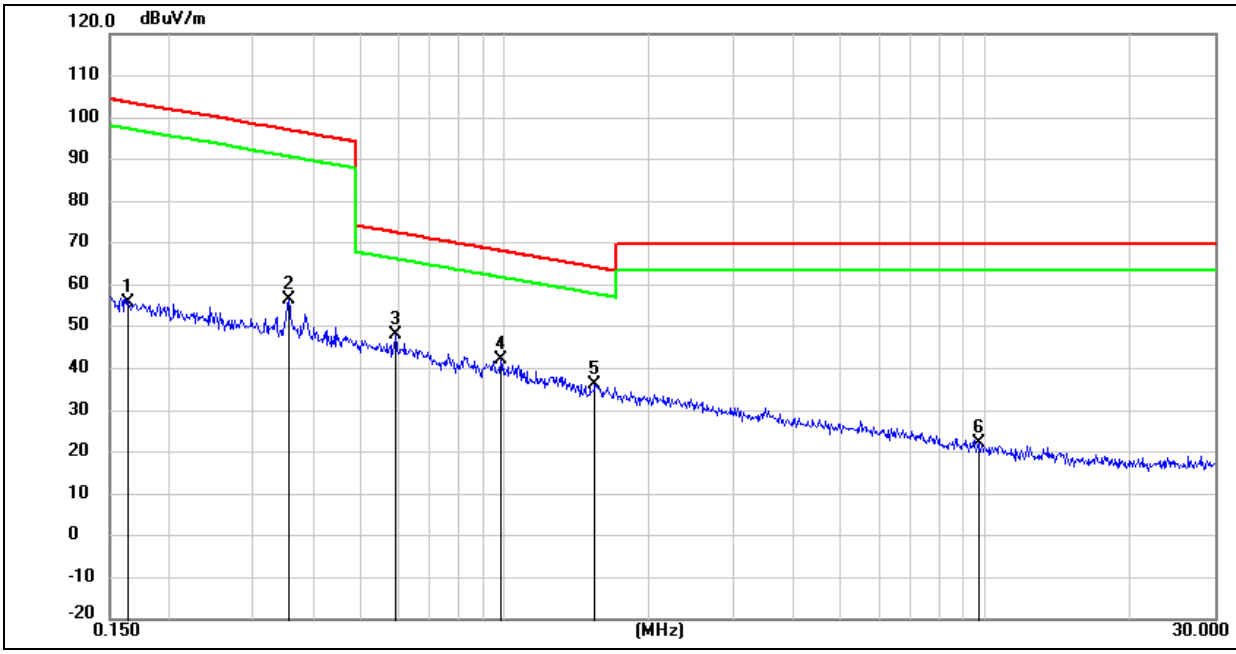
6.5 Measurement Result

We pretested modes (Wireless Charging(15W), Wireless Charging (10W), Wireless Charging (7.5W), Wireless Charging(5W)) for EUT. The worst mode (Wireless Charging (15W) test data see follow the table.



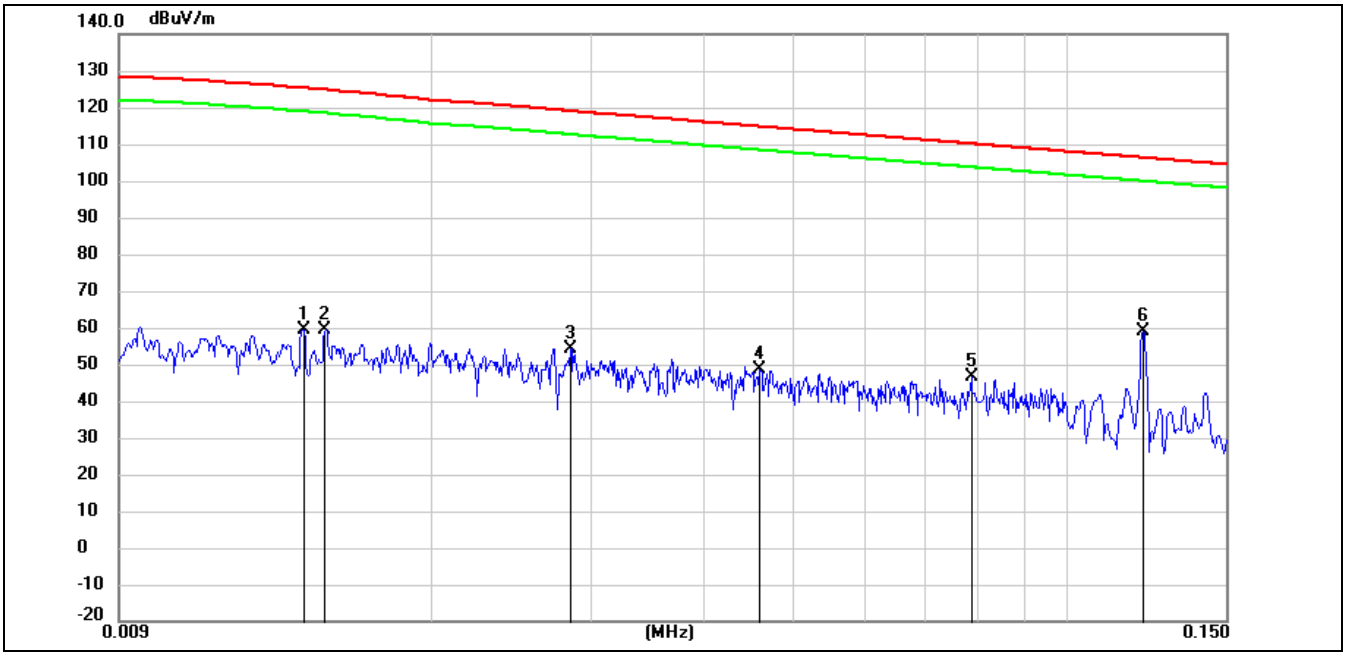
Limit:	**FCC Part 15C 3m Radiation**	**Antenna:**	**coaxial**
EUT:	**MAGFAST POWER BANK**	**Temperature:**	**24.3℃**
M/N.:	**PBK5KB**	**Humidity:**	**53.2%RH**
Mode:	**Wireless Charging 15W**	**Power Rating:**	**AC 120V/60Hz**
Test Engineer:	**Berny**	**Test Time:**	**2024-11-27**

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.0103	42.46	18.43	60.89	127.42	-66.53	peak	
2	0.0173	42.79	15.35	58.14	123.21	-65.07	peak	
3	0.0276	42.26	13.48	55.74	118.90	-63.16	peak	
4	0.0583	38.80	11.30	50.10	112.31	-62.21	peak	
5	0.0896	35.13	10.86	45.99	108.56	-62.57	peak	
6	0.1198	54.78	10.74	65.52	106.04	-40.52	peak	



Limit:	**FCC Part 15C 3m Radiation**	**Antenna:**	**coaxial**
EUT:	**MAGFAST POWER BANK**	**Temperature:**	**24.3℃**
M/N.:	**PBK5KB**	**Humidity:**	**53.2%RH**
Mode:	**Wireless Charging 15W**	**Power Rating:**	**AC 120V/60Hz**
Test Engineer:	**Berny**	**Test Time:**	**2024-11-27**

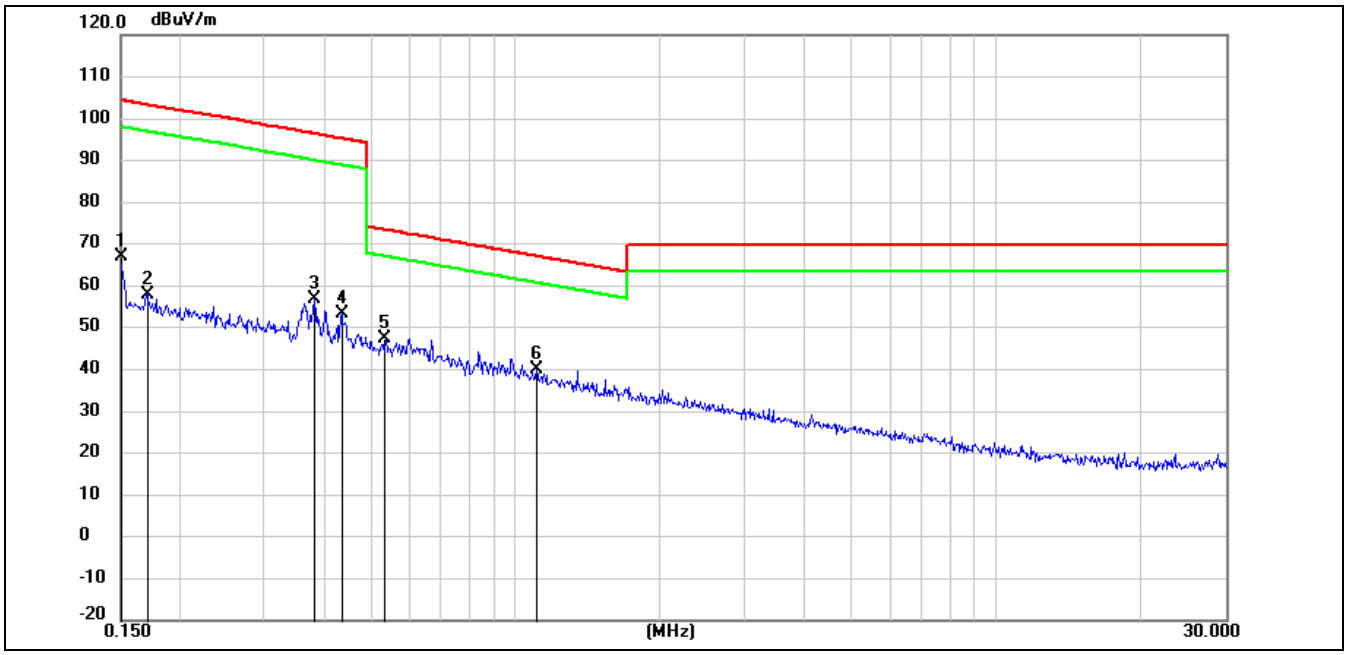
No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.1641	45.06	10.68	55.74	103.31	-47.57	peak	
2	0.3558	45.79	10.56	56.35	96.67	-40.32	peak	
3	0.5916	37.49	10.52	48.01	72.17	-24.16	peak	
4	0.9787	31.53	10.55	42.08	67.80	-25.72	peak	
5	1.5355	25.69	10.59	36.28	63.88	-27.60	peak	
6	9.6540	11.25	10.93	22.18	69.54	-47.36	peak	



Limit:	**FCC Part 15C 3m Radiation**	**Antenna:**	**coplanar**
EUT:	**MAGFAST POWER BANK**	**Temperature:**	**24.3℃**
M/N.:	**PBK5KB**	**Humidity:**	**53.2%RH**
Mode:	**Wireless Charging 15W**	**Power Rating:**	**AC 120V/60Hz**
Test Engineer:	**Berny**	**Test Time:**	**2024-11-27**

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.0144	42.97	16.62	59.59	124.95	-65.36	peak	
2	0.0152	43.05	16.27	59.32	124.47	-65.15	peak	
3	0.0284	41.00	13.40	54.40	118.62	-64.22	peak	
4	0.0460	36.94	11.83	48.77	114.40	-65.63	peak	
5	0.0785	35.53	10.95	46.48	109.71	-63.23	peak	
6	0.1215	48.22	10.74	58.96	105.92	-46.96	peak	

Note: (1) All Readings are Peak Value.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) The average measurement was not performed when the peak measured data under the limit of average detection.
(4) EUT lying on the table position is the worst case result in the report.

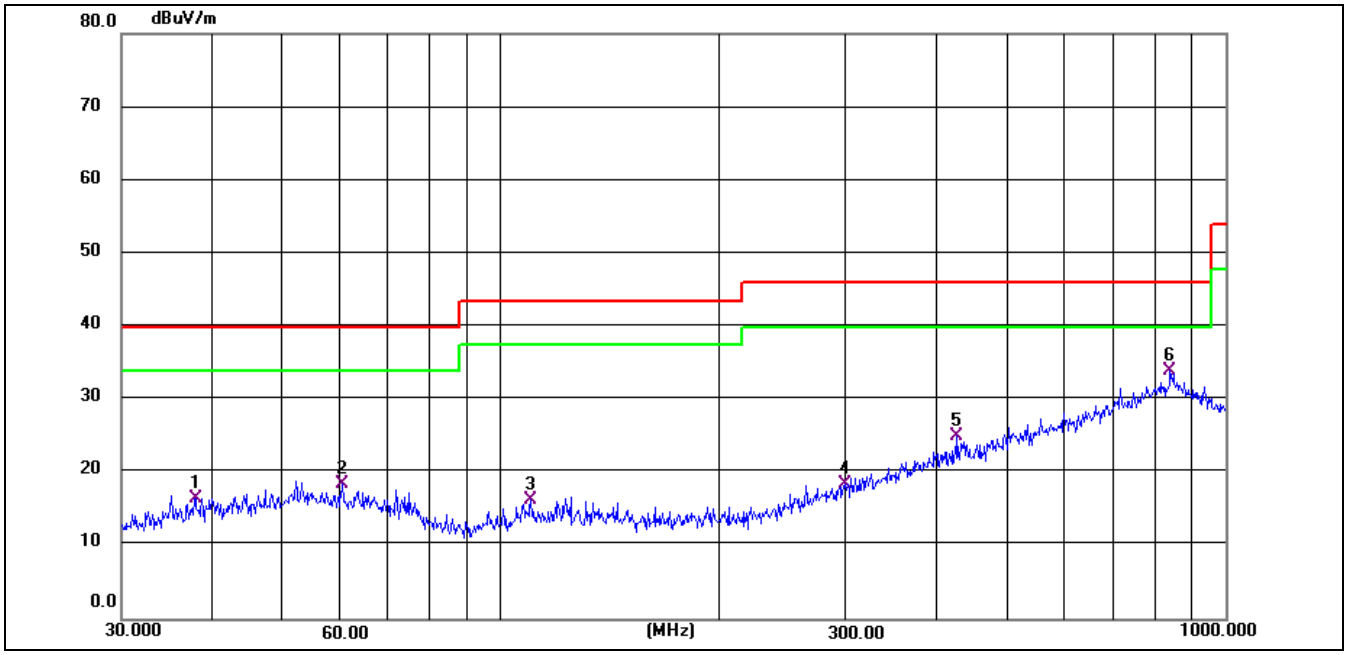


Limit:	**FCC Part 15C 3m Radiation**	**Antenna:**	**coplanar**
EUT:	**MAGFAST POWER BANK**	**Temperature:**	**24.3℃**
M/N.:	**PBK5KB**	**Humidity:**	**53.2%RH**
Mode:	**Wireless Charging 15W**	**Power Rating:**	**AC 120V/60Hz**
Test Engineer:	**Berny**	**Test Time:**	**2024-11-27**

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.1500	56.16	10.68	66.84	104.08	-37.24	peak	
2	0.1703	47.38	10.67	58.05	102.98	-44.93	peak	
3	0.3791	46.24	10.55	56.79	96.08	-39.29	peak	
4	0.4328	42.90	10.54	53.44	94.92	-41.48	peak	
5	0.5350	36.81	10.51	47.32	73.08	-25.76	peak	
6	1.0997	29.61	10.56	40.17	66.78	-26.61	peak	

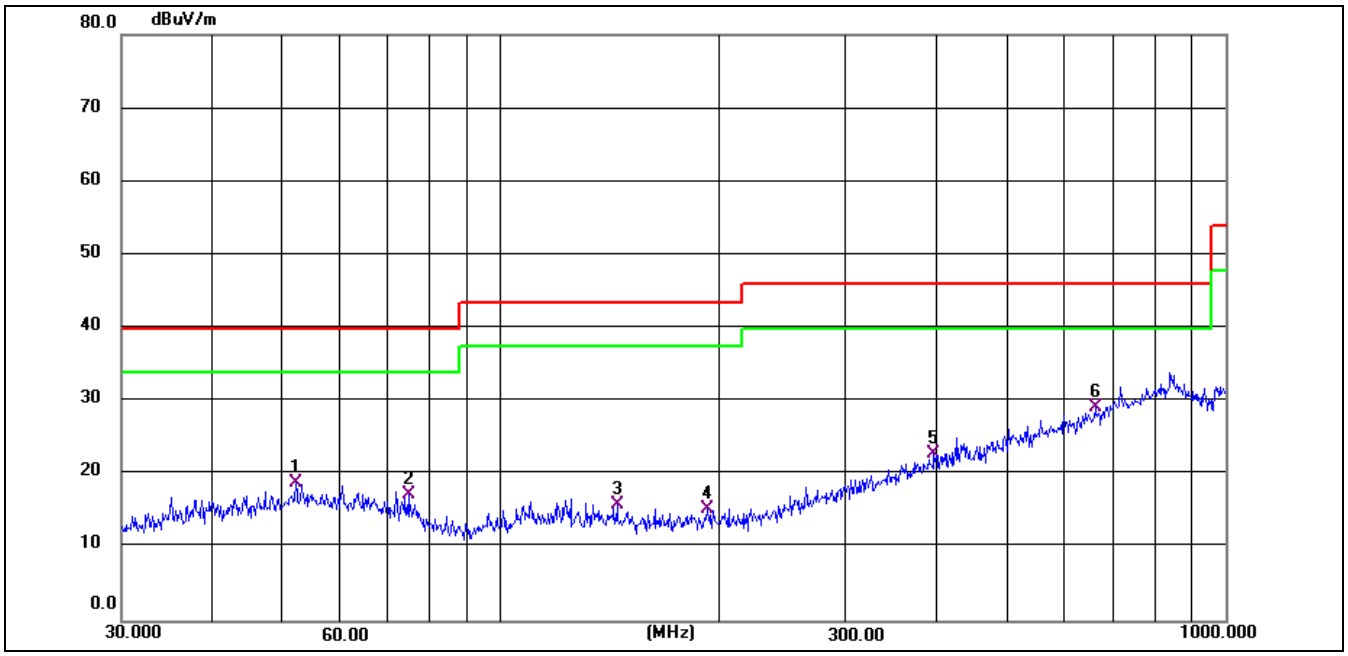
Note: (1) All Readings are Peak Value.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) The average measurement was not performed when the peak measured data under the limit of average detection.
(4) EUT lying on the table position is the worst case result in the report.

We pretested modes (Wireless Charging(15W), Wireless Charging (10W), Wireless Charging (7.5W), Wireless Charging(5W)) for EUT. The worst test data (Wireless Charging(15W)) see follow the table.



Limit:	FCC Part 15C 3m Radiation	Antenna:	Horizontal
EUT:	MAGFAST POWER BANK	Temperature:	24.3℃
M/N.:	PBK5KB	Humidity:	54%RH
Mode:	Wireless Charging 15W	Power Rating:	AC 120V/60Hz
Test Engineer:	Berny	Test Time:	2024-11-27

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	37.9450	27.57	-11.04	16.53	40.00	-23.47	QP	
2	60.4919	28.38	-9.85	18.53	40.00	-21.47	QP	
3	110.1816	28.62	-12.32	16.30	43.50	-27.20	QP	
4	299.3158	26.72	-8.26	18.46	46.00	-27.54	QP	
5	426.5210	29.16	-4.20	24.96	46.00	-21.04	QP	
6	839.1818	28.89	5.05	33.94	46.00	-12.06	QP	

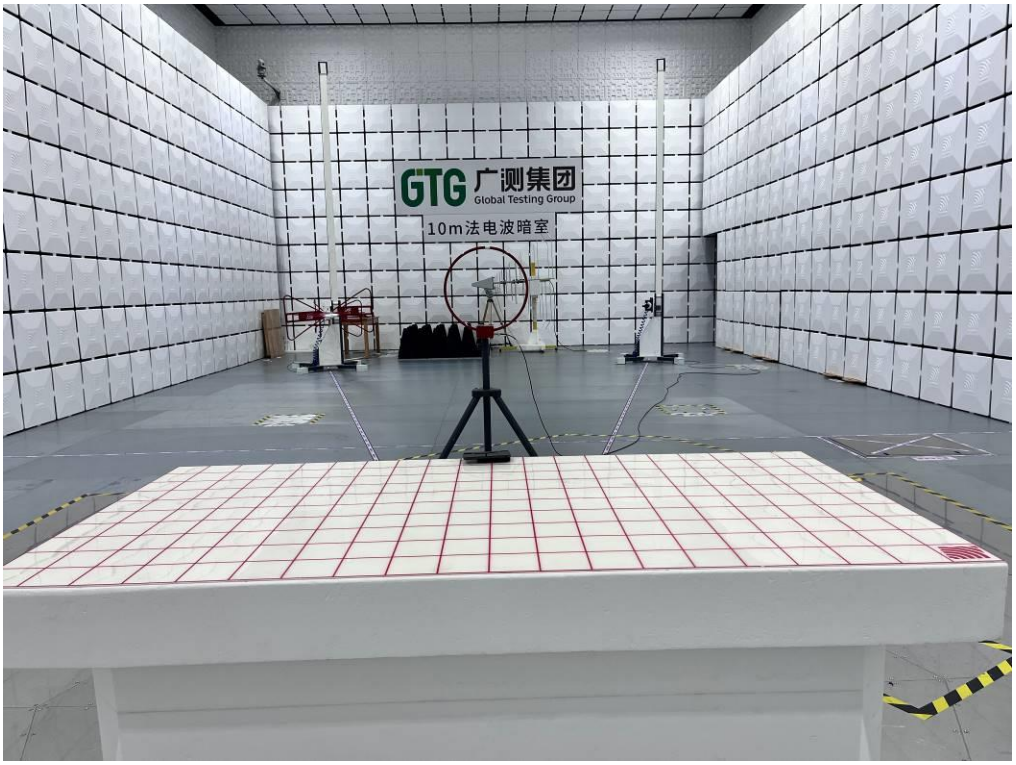


Limit:	FCC Part 15C 3m Radiation	Antenna:	Vertical
EUT:	MAGFAST POWER BANK	Temperature:	24.3℃
M/N.:	PBK5KB	Humidity:	54%RH
Mode:	Wireless Charging 15W	Power Rating:	AC 120V/60Hz
Test Engineer:	Berny	Test Time:	2024-11-27

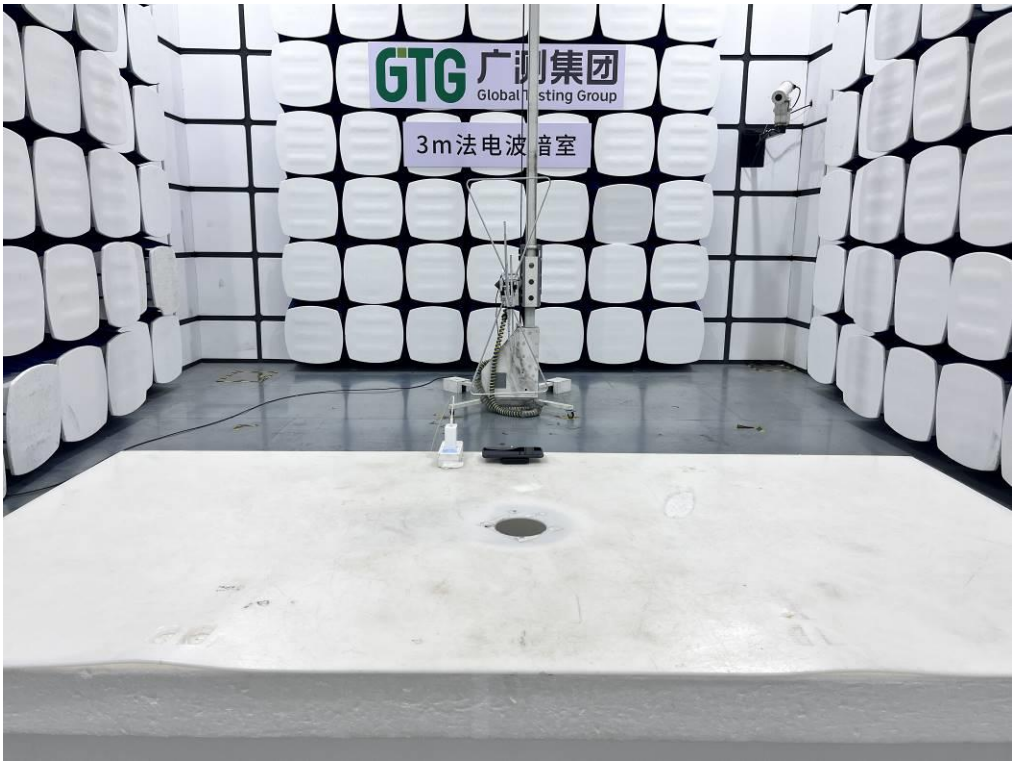
No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	52.2079	28.37	-9.53	18.84	40.00	-21.16	QP	
2	74.6569	29.15	-11.79	17.36	40.00	-22.64	QP	
3	144.8418	28.02	-12.16	15.86	43.50	-27.64	QP	
4	193.0945	27.51	-12.08	15.43	43.50	-28.07	QP	
5	396.2415	28.07	-5.10	22.97	46.00	-23.03	QP	
6	661.1505	28.45	0.82	29.27	46.00	-16.73	QP	

6.6 Radiated Measurement Photos

9kHz-30MHz



30MHz-1GHz



7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

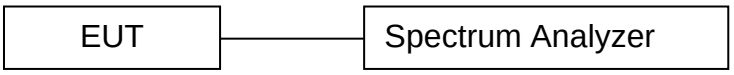
7.2 Test Instruments

Refer a test equipment and calibration data table in this test report.

7.3 Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 1KHz RBW and 3KHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

7.4 Test Setup



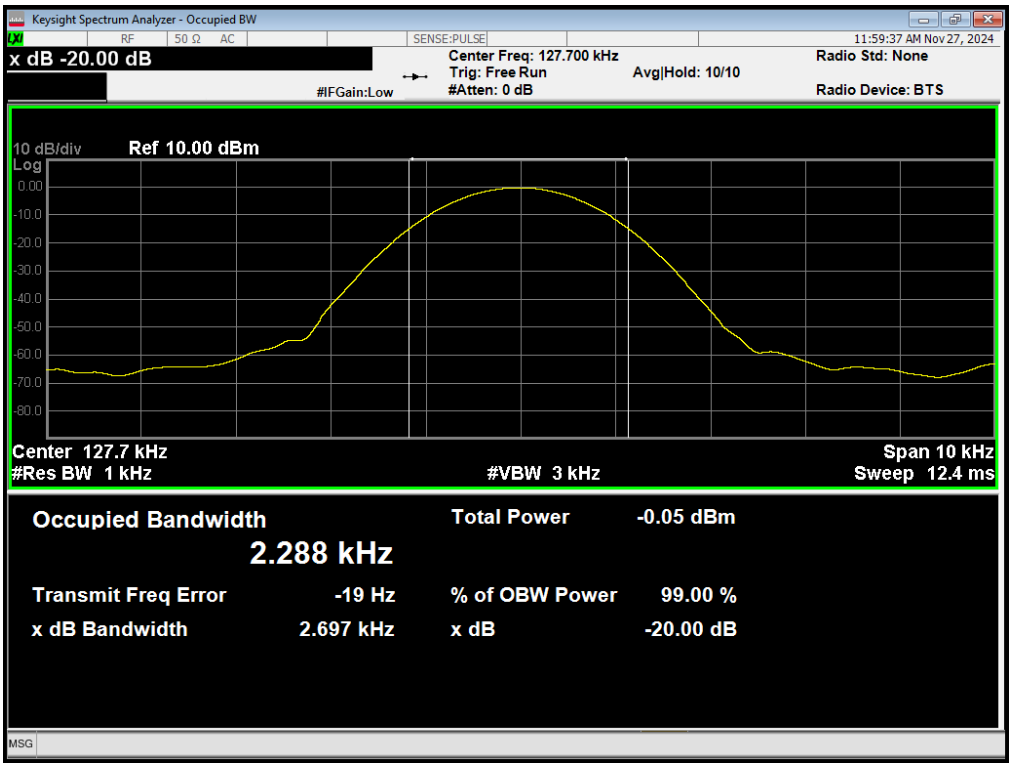
7.5 Test Result

phone charging

Frequency (KHz)	20dB Bandwidth (KHz)	Results
127.7	2.697	PASS

20 dB Bandwidth Test plot

phone charging



8 Antenna Application

8.1 Antenna requirement

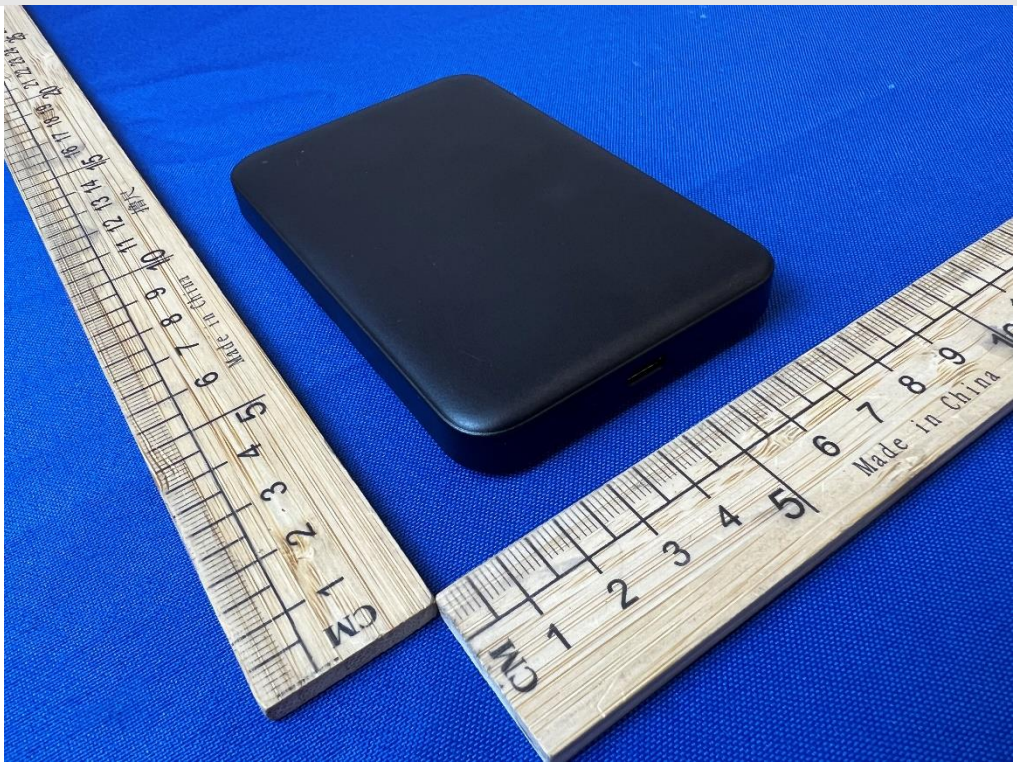
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

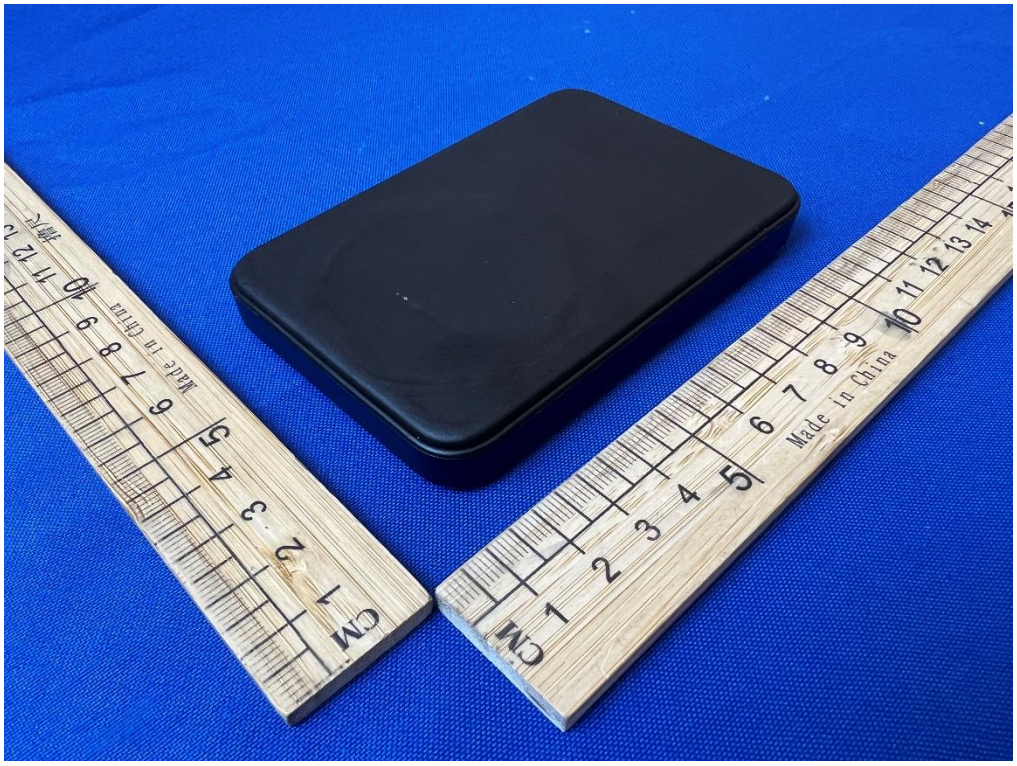
8.2 Result

The EUT's antenna, permanent attached antenna, used an Induction coil and integrated on PCB, The antenna's gain meets the requirement.

APPENDIX
(Photos of EUT)

External


Made in China
CM
Made in China
CM


Made in China
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Made in China
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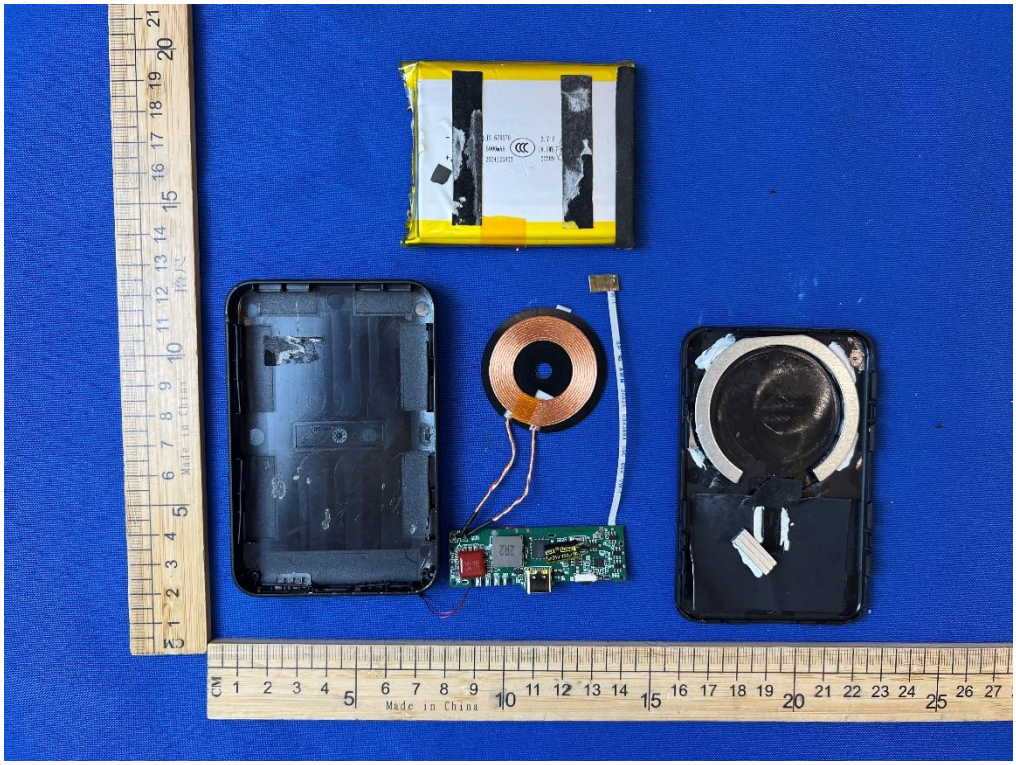
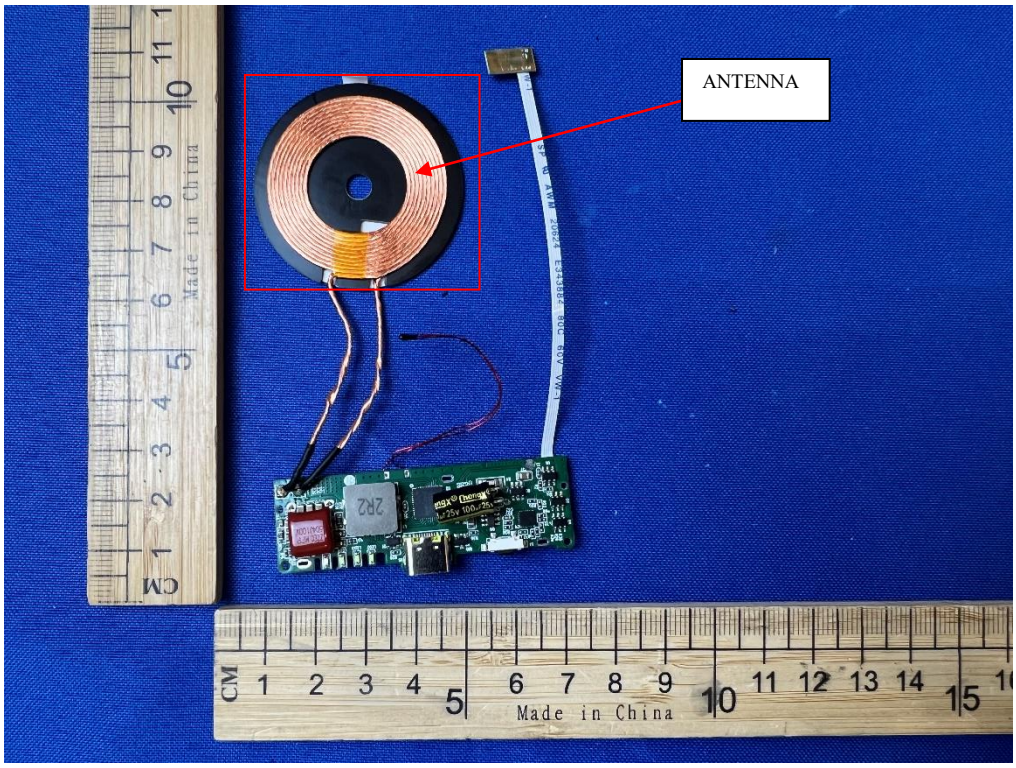
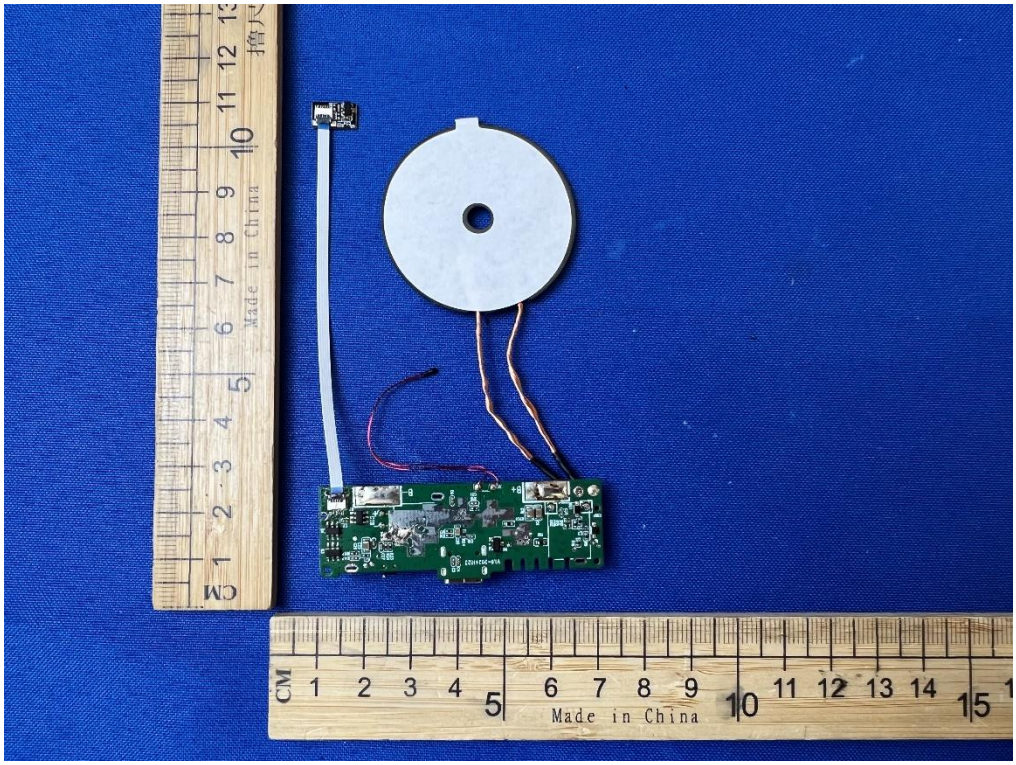
Internal




ANTENNA



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