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

OF

2-in-1 Power Charging Station

Model No.: CQ050773, FL050974

Trademark: N/A

FCC ID: 2AAC4CQ050773

Report No.: E01A22110779F00101

Issue Date: December 15, 2022

Prepared for

Case-Mate, Inc.

7000 Central Pkwy. Ste. 1050 Atlanta, Georgia, 30328-4590 USA

Prepared by

Dong Guan Anci Electronic Technology Co., Ltd.

1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China.

VERIFICATION OF COMPLIANCE

Applicant:	Case-Mate, Inc. 7000 Central Pkwy. Ste. 1050 Atlanta, Georgia, 30328-4590 USA
Manufacturer 1:	PYS High-Tech CO.,Ltd 1F~12F, Block 9, Lianhua Industrial Zone, Longhua, Shenzhen,Guangdong 518109 CHINA
Manufacturer 2:	PYS VIETNAM TECHNOLOGY COMPANY LIMITED CN-06,ThuanThanh II industrial zone,Mao Dien commune, ThuanThanh district, BacNinh, Vietnam
Product Description:	2-in-1 Power Charging Station
Trade Mark:	N/A
Model Number:	CQ050773, FL050974(Note: All models are the same, except the model name.)

We hereby certify that:

The above equipment was tested by Dong Guan Anci Electronic 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(2020).

Date of Test : December 05, 2022 to December 09, 2022

Prepared by: Duke Liu/ Editor

Reviewer &
Authorized Signer : Tiger Xu / Supervisor

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E01A22110779F00101

Table of Contents

1 General Information

1.1 Product Description

Characteristics	Description
Product Name	2-in-1 Power Charging Station
Model number	CQ050773
Operation Mode	Wireless Charging
Input Rating	12V ⎓ 2.5A
Power Supply	AC120V/60Hz for adapter
Operating Frequency	110-205KHz
Wireless Charging Power	Max 15W for Wireless Charging Mobile phone stand Max 5W for Airpods charging
Modulation Technique	FSK
Antenna Type	Induction coil

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2AAC4CQ050773 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

Site Description		
EMC Lab.	:	Accredited by CNAS, 2017.06.26 The certificate is valid until 2022.10.28 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L6214. Accredited by A2LA, 2018.03.15 The Certificate Number is 4422.01.
Name of Firm	:	Dong Guan Anci Electronic Technology Co., Ltd.
Site Location	:	1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake Hi-tech Industrial Development Zone, Dongguan City,evelopment Zone, Dongguan City, Guangdong Pr., China.

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 onfiguration of Tested System

Fig. 2-1 Configuration of Tested System

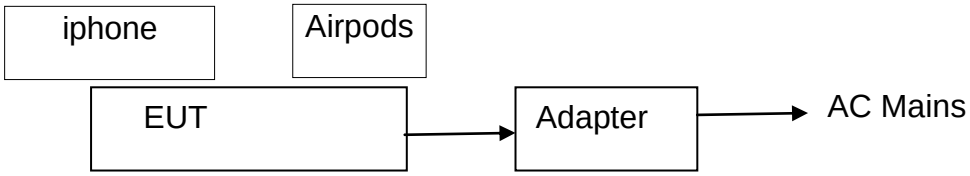


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	2-in-1 Power Charging Station	N/A	CQ050773	2AAC4CQ050773	***EUT***
2.	Adapter	N/A	Model: HW-200325CP0 Input: 100-240V~, 50/60Hz, 1.8A Output: 5V ⎓ 2A, 9V ⎓ 2A, 12V ⎓ 2A, 15V ⎓ 3A, 20V ⎓ 3.25A	N/A	***Support Equipment***
3.	iphone	Apple	A2404	N/A	***Support Equipment***
4.	Airpods	Apple	A2190	N/A	***Support Equipment***

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
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Temperature	±0.5℃
Humidity	±3%

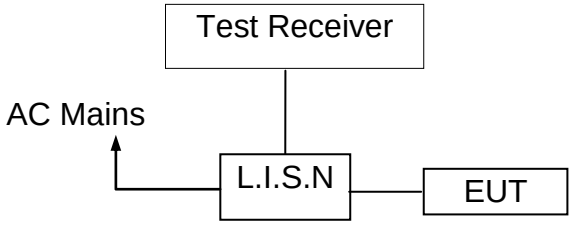
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%

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. Repeat above procedures until all frequency measured was complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Calibrated until
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-669	2023-05-12
10 db attenuator	JFW	50FP-010-H4	4360846-427-1	2023-05-12
RF Cable	N/A	N/A	2#	2023-05-12
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2023-05-12

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.

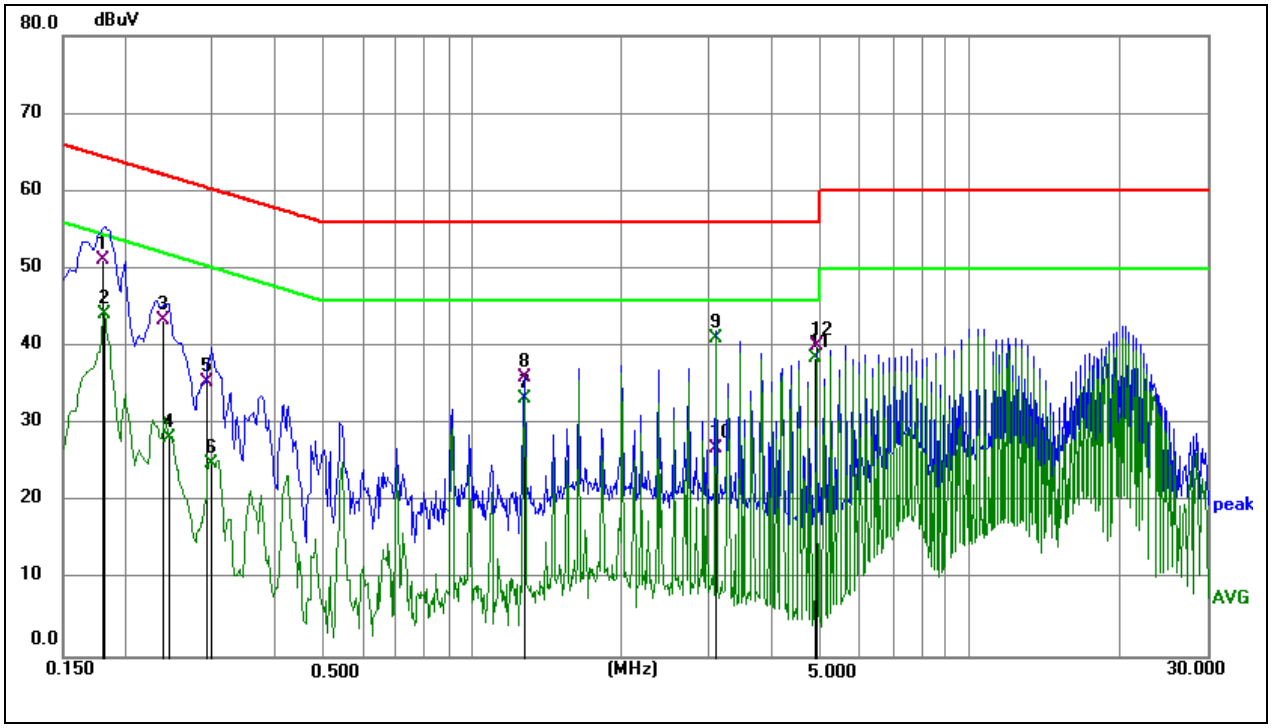
5.5 Measurement Result

Operation Mode:	TX	Test Date :	2022/12/07
Frequency Range:	0.15MHz~30MHz	Temperature :	22℃
Test Result:	PASS	Humidity :	55 %
Test By:	Best		

Pass

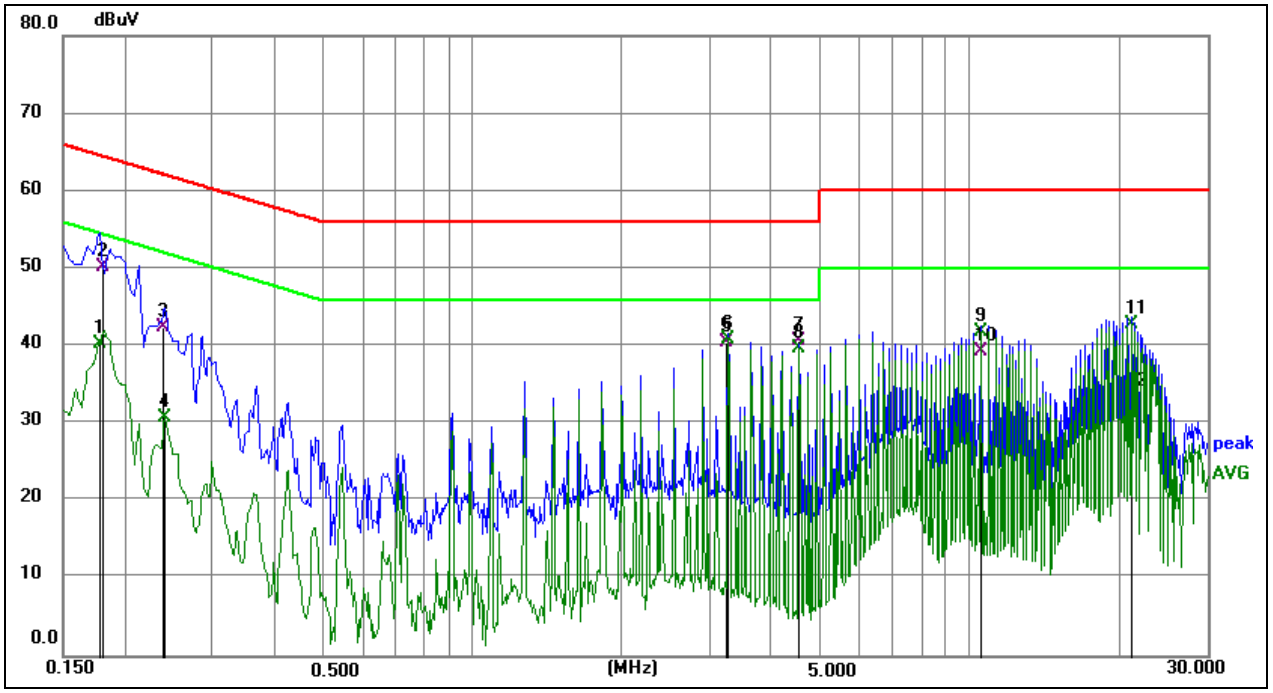
We pretested modes (Wireless Charging for iphone, Wireless Charging for Airpods，Wireless Charging for iphone+ Airpods) for EUT. The worst test data see follow the table.

Test mode: Wireless Charging for iPhone+ Airpods



Site:	**843**	**Phase:L1**	**Temperature(C):22**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%):55**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for iPhone+ Airpods**	**Test Engineer:**	**Jack**
Note:			

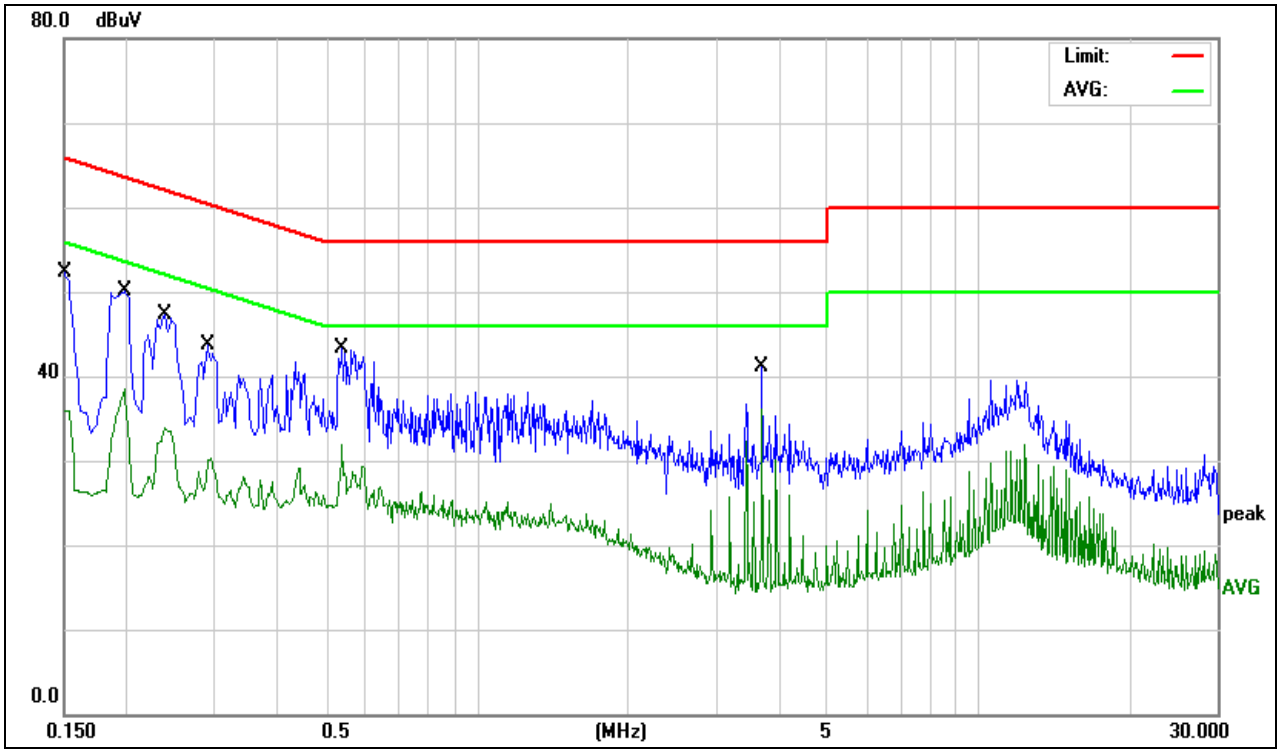
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1808	41.69	9.49	51.18	64.45	-13.27	QP	
2	0.1815	34.62	9.49	44.11	54.42	-10.31	AVG	
3	0.2380	33.66	9.68	43.34	62.17	-18.83	QP	
4	0.2445	18.58	9.71	28.29	51.94	-23.65	AVG	
5	0.2918	25.57	9.83	35.40	60.47	-25.07	QP	
6	0.2985	15.11	9.85	24.96	50.28	-25.32	AVG	
7	1.2705	23.35	9.95	33.30	46.00	-12.70	QP	
8	1.2722	26.00	9.95	35.95	56.00	-20.05	AVG	
9	3.0885	31.02	10.09	41.11	46.00	-4.89	QP	
10	3.0907	16.75	10.09	26.84	56.00	-29.16	AVG	
11	4.9064	28.48	10.03	38.51	46.00	-7.49	QP	
12	4.9079	29.98	10.03	40.01	56.00	-15.99	AVG	



Site:	**843**	**Phase:N**	**Temperature(C):22**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%):55**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for iPhone+ Airpods**	**Test Engineer:**	**Jack**
Note:			

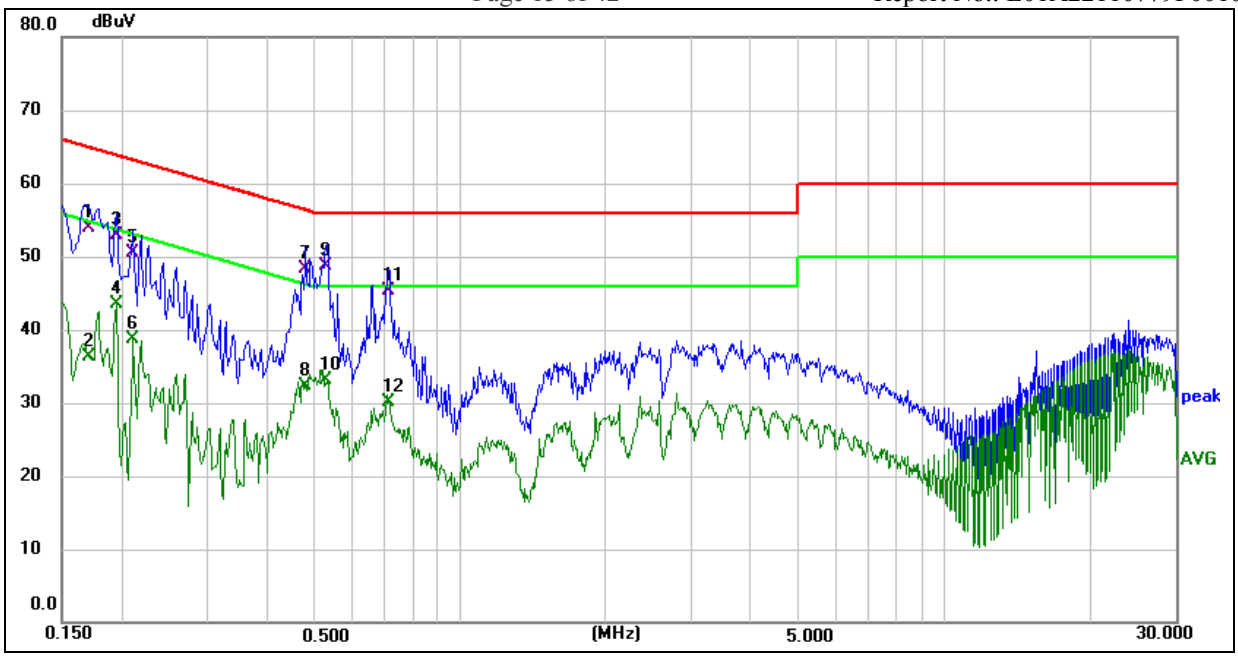
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1770	30.88	9.49	40.37	54.63	-14.26	QP	
2	0.1810	40.75	9.49	50.24	64.44	-14.20	AVG	
3	0.2380	32.70	9.68	42.38	62.17	-19.79	QP	
4	0.2400	21.17	9.69	30.86	52.10	-21.24	AVG	
5	3.2725	30.45	10.03	40.48	56.00	-15.52	QP	
6	3.2730	30.94	10.03	40.97	46.00	-5.03	AVG	
7	4.5465	30.75	9.94	40.69	56.00	-15.31	QP	
8	4.5465	29.80	9.94	39.74	46.00	-6.26	AVG	
9	10.5450	31.84	10.03	41.87	50.00	-8.13	QP	
10	10.5471	29.20	10.03	39.23	60.00	-20.77	AVG	
11	21.0885	32.31	10.41	42.72	50.00	-7.28	QP	
12	21.0950	23.12	10.41	33.53	60.00	-26.47	AVG	

Test mode: Wireless Charging for Airpods



Site:	**843**	**Phase:N**	**Temperature(C):22**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%):55**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for Airpods**	**Test Engineer:**	**Jack**
Note:			

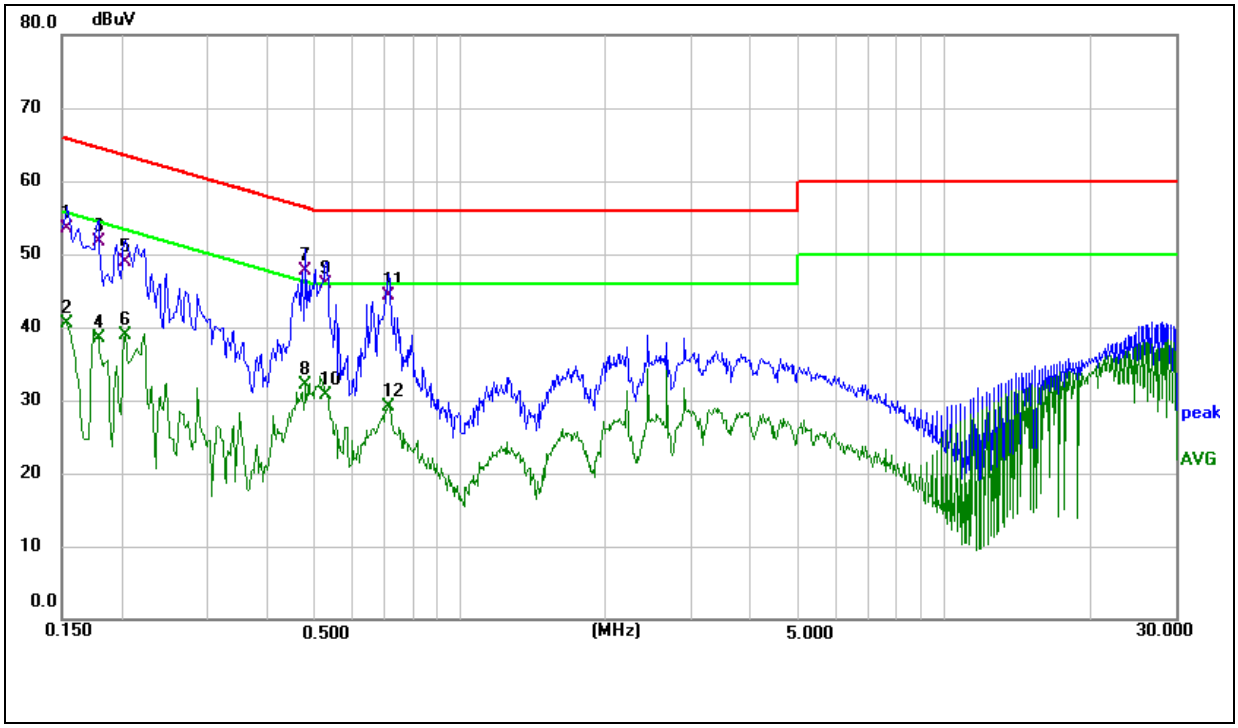
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1500	41.75	9.60	51.35	65.99	-14.64	QP	
2	0.1500	26.76	9.60	36.36	55.99	-19.63	AVG	
3	0.1980	37.25	9.62	46.87	63.69	-16.82	QP	
4	0.1980	23.56	9.62	33.18	53.69	-20.51	AVG	
5	0.2380	33.55	9.63	43.18	62.16	-18.98	QP	
6	0.2380	20.94	9.63	30.57	52.16	-21.59	AVG	
7	0.2900	28.64	9.63	38.27	60.52	-22.25	QP	
8	0.2900	17.91	9.63	27.54	50.52	-22.98	AVG	
9	0.5380	27.06	9.66	36.72	56.00	-19.28	QP	
10	0.5380	17.00	9.66	26.66	46.00	-19.34	AVG	
11	3.7060	27.96	9.83	37.79	56.00	-18.21	QP	
12	3.7060	24.42	9.83	34.25	46.00	-11.75	AVG	



Site:	**843**	**Phase:L1**	**Temperature(C):22**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%):55**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for Airpods**	**Test Engineer:**	**Jack**
Note:			

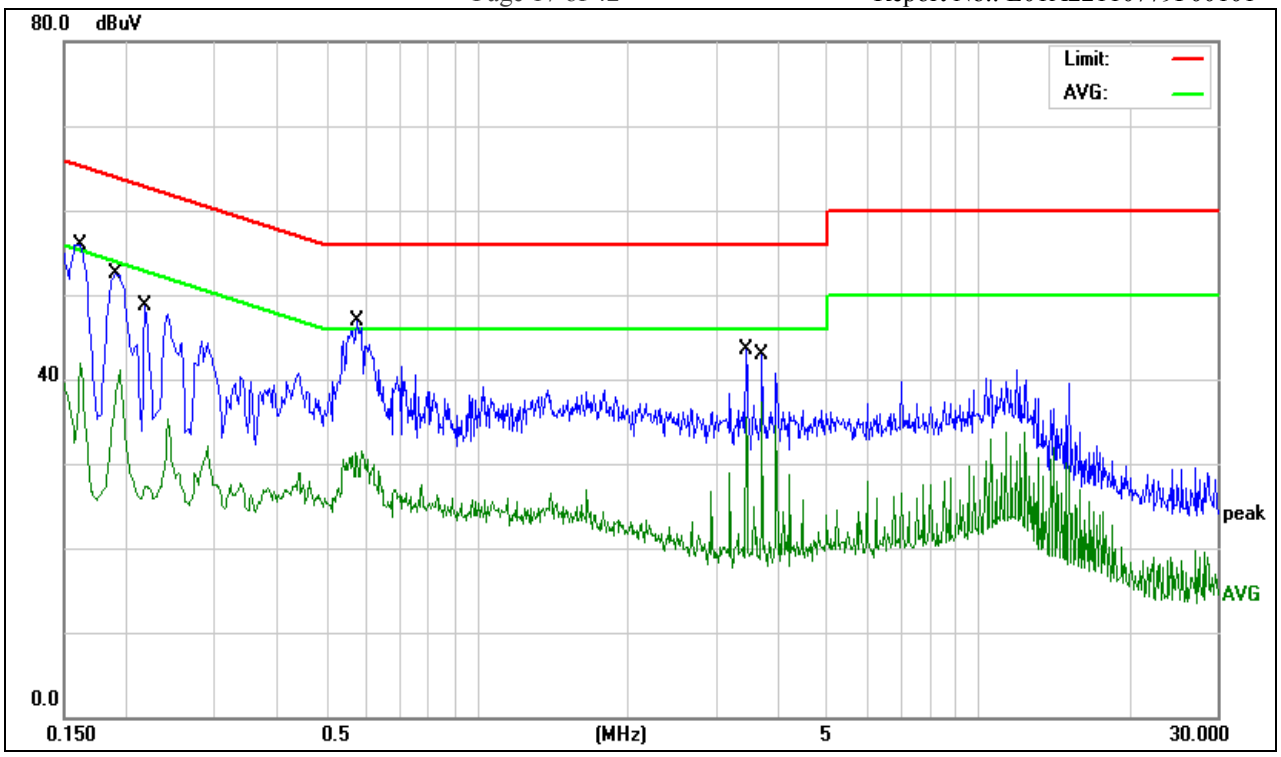
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1700	43.65	10.30	53.95	64.96	-11.01	QP	
2	0.1700	26.08	10.30	36.38	54.96	-18.58	AVG	
3	0.1940	42.66	10.31	52.97	63.86	-10.89	QP	
4	0.1940	33.16	10.31	43.47	53.86	-10.39	AVG	
5	0.2100	40.26	10.31	50.57	63.21	-12.64	QP	
6	0.2100	28.48	10.31	38.79	53.21	-14.42	AVG	
7	0.4780	38.37	9.84	48.21	56.37	-8.16	QP	
8	0.4780	22.50	9.84	32.34	46.37	-14.03	AVG	
9	0.5299	38.93	9.80	48.73	56.00	-7.27	QP	
10	0.5299	23.35	9.80	33.15	46.00	-12.85	AVG	
11	0.7100	35.68	9.67	45.35	56.00	-10.65	QP	
12	0.7100	20.44	9.67	30.11	46.00	-15.89	AVG	

Test mode: Wireless Charging for iPhone



Site:	**843**	**Phase:N**	**Temperature(C):22**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%):55**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for iPhone**	**Test Engineer:**	**Jack**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1539	43.26	10.29	53.55	65.79	-12.24	QP	
2	0.1539	30.15	10.29	40.44	55.79	-15.35	AVG	
3	0.1780	41.36	10.30	51.66	64.58	-12.92	QP	
4	0.1780	28.14	10.30	38.44	54.58	-16.14	AVG	
5	0.2020	38.66	10.30	48.96	63.53	-14.57	QP	
6	0.2020	28.64	10.30	38.94	53.53	-14.59	AVG	
7	0.4780	37.81	9.84	47.65	56.37	-8.72	QP	
8	0.4780	22.21	9.84	32.05	46.37	-14.32	AVG	
9	0.5299	36.19	9.80	45.99	56.00	-10.01	QP	
10	0.5299	20.88	9.80	30.68	46.00	-15.32	AVG	
11	0.7100	34.70	9.67	44.37	56.00	-11.63	QP	
12	0.7100	19.52	9.67	29.19	46.00	-16.81	AVG	



Site:	**843**	**Phase:L1**	**Temperature(C):22**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%):55**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for iPhone**	**Test Engineer:**	**Jack**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1620	22.72	9.61	32.33	65.36	-33.03	QP	
2	0.1620	16.44	9.61	26.05	55.36	-29.31	AVG	
3	0.1900	39.10	9.62	48.72	64.03	-15.31	QP	
4	0.1900	24.91	9.62	34.53	54.03	-19.50	AVG	
5	0.2180	22.88	9.62	32.50	62.89	-30.39	QP	
6	0.2180	16.05	9.62	25.67	52.89	-27.22	AVG	
7	0.5780	33.38	9.67	43.05	56.00	-12.95	QP	
8	0.5780	21.00	9.67	30.67	46.00	-15.33	AVG	
9	3.4500	29.42	9.81	39.23	56.00	-16.77	QP	
10	3.4500	24.26	9.81	34.07	46.00	-11.93	AVG	
11	3.7060	32.66	9.83	42.49	56.00	-13.51	QP	
12	3.7060	27.45	9.83	37.28	46.00	-8.72	AVG	

5.6 Conducted Measurement Photo

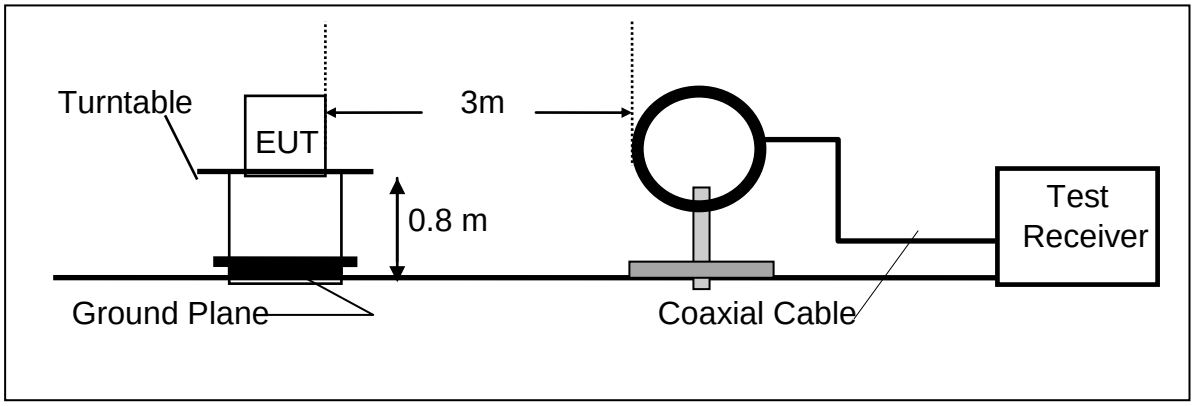
6 Radiated Emission Test

6.1 Measurement Procedure

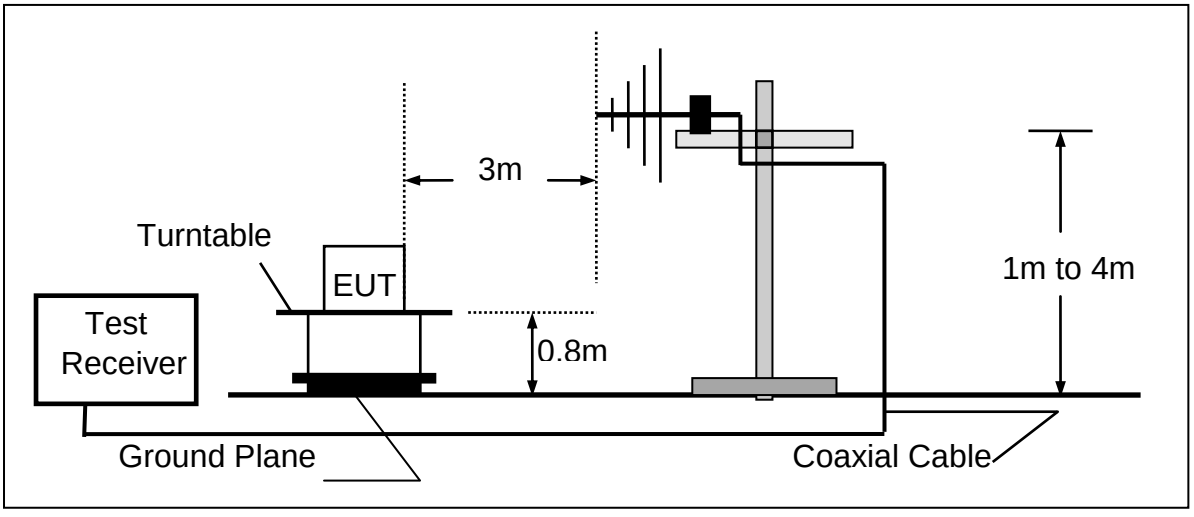
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above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

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1.	EMI Test Receiver	Rohde & Schwarz	ESPI	100502	2023-10-07
2.	Pre-Amplifier	HP	8447D	2727A06172	2023-05-12
3.	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-588	2023-05-12
4.	Loop Antenna	Schwarzbeck	FMZB 1516	1516-141	2023-10-07
5.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-2m	N/A	2023-10-07
6.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-0.3m	N/A	2023-10-07
7.	RF Cable	N/A	N/A	6#	2023-05-12
8.	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2024-11-11
9.	Test Software	Farad	EZ-EMC Ver:ANCI-3A1	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

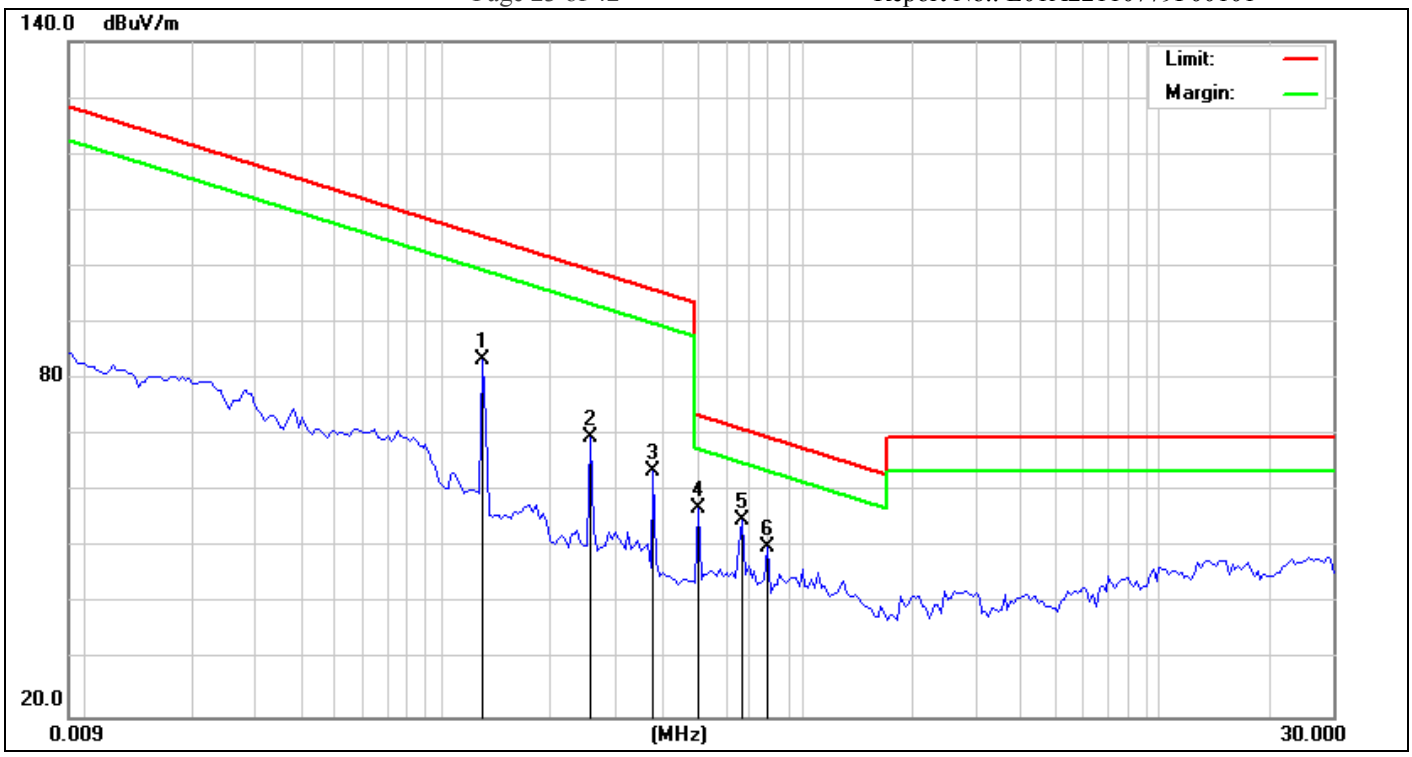
We pretested modes (Wireless Charging for iphone, Wireless Charging for Airpods，Wireless Charging for iphone+ Airpods) for EUT. The worst mode test data see follow the table.

Test mode: Wireless Charging for iphone

Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15C 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for iphone**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.1280	79.33	6.20	85.53	105.39	-19.86	QP	
2	0.2555	61.03	5.60	66.63	99.42	-32.79	QP	
3	0.3830	53.09	5.97	59.06	95.92	-36.86	QP	
4	0.5090	50.34	6.31	56.65	73.47	-16.82	QP	
5 *	0.7638	50.82	6.50	57.32	69.95	-12.63	QP	
6	0.9743	44.53	6.09	50.62	67.85	-17.23	QP	

*:Maximum data x:Over limit !:over margin

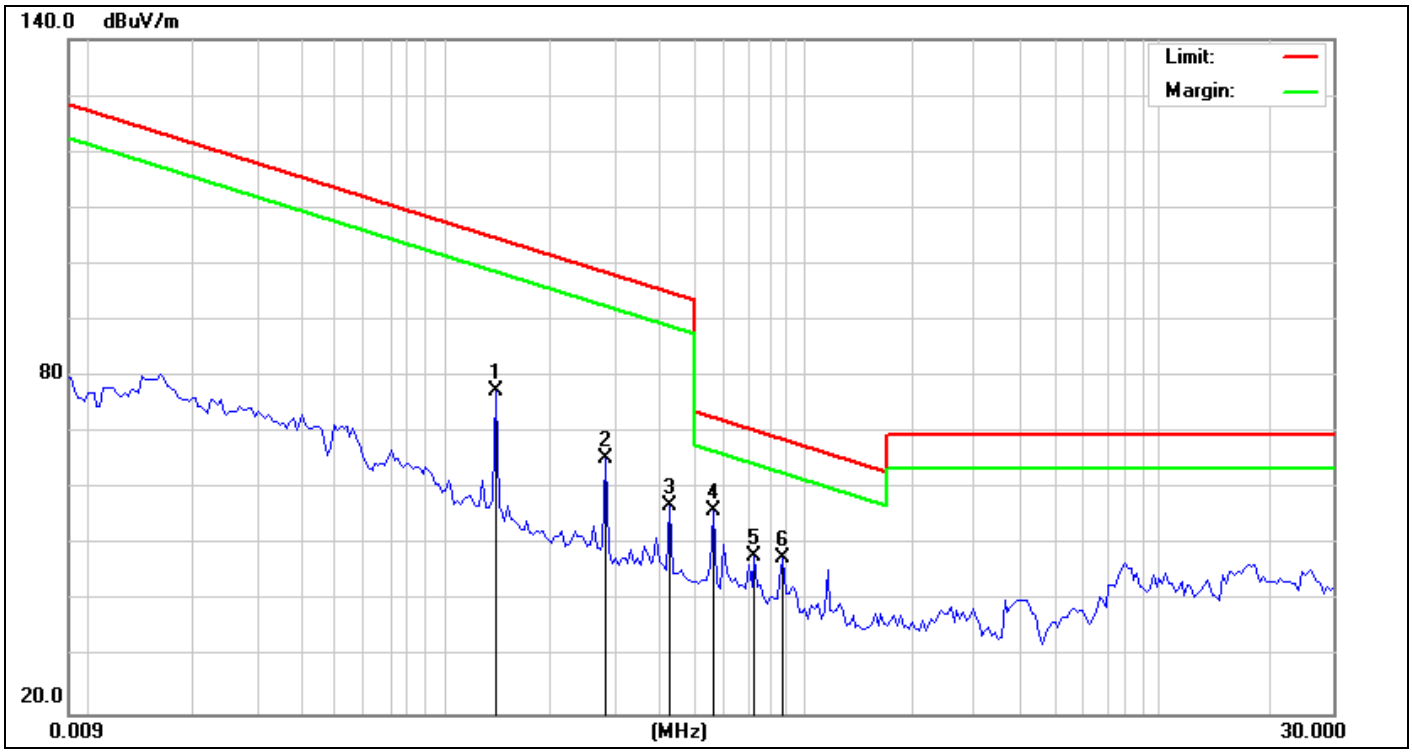


Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15C 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for iphone**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.1282	77.33	6.20	83.53	105.37	-21.84	QP	
2	0.2555	64.03	5.60	69.63	99.42	-29.79	QP	
3	0.3830	57.59	5.97	63.56	95.92	-32.36	QP	
4	0.5090	50.84	6.31	57.15	73.47	-16.32	QP	
5 *	0.6764	48.60	6.46	55.06	71.01	-15.95	QP	
6	0.7953	43.74	6.44	50.18	69.60	-19.42	QP	

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.

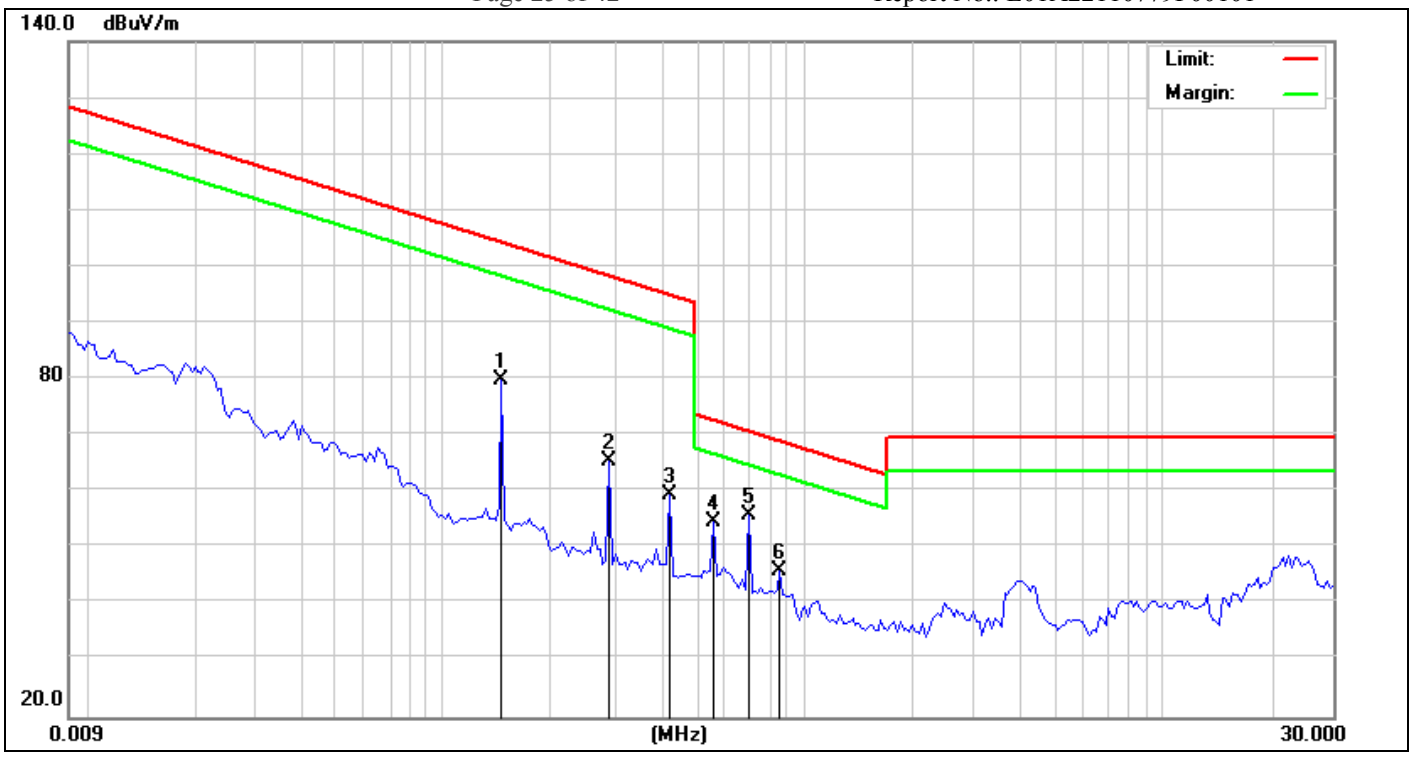
Test mode: Wireless Charging for Airpods



Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15C 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for Airpods**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.1411	71.27	6.14	77.41	104.55	-27.14	QP	
2	0.2827	59.71	5.68	65.39	98.55	-33.16	QP	
3	0.4242	50.88	6.09	56.97	95.04	-38.07	QP	
4 *	0.5635	49.68	6.36	56.04	72.59	-16.55	QP	
5	0.7335	41.45	6.50	47.95	70.30	-22.35	QP	
6	0.8800	41.56	6.27	47.83	68.73	-20.90	QP	

*:Maximum data x:Over limit !:over margin

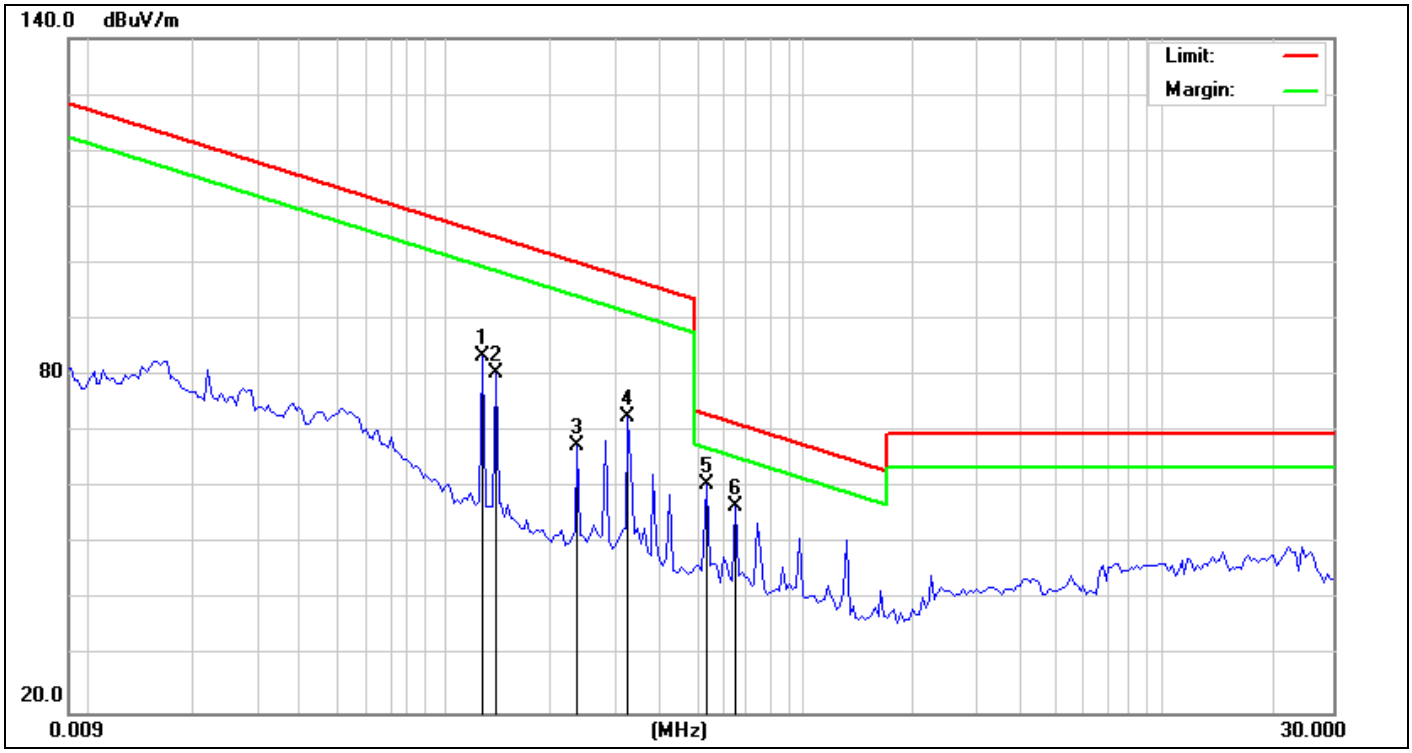


Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15C 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for Airpods**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.1411	73.78	6.12	79.90	104.32	-24.42	QP	
2	0.2825	59.69	5.70	65.39	98.37	-32.98	QP	
3	0.4242	53.38	6.09	59.47	95.04	-35.57	QP	
4	0.5635	48.18	6.36	54.54	72.59	-18.05	QP	
5 *	0.7044	49.46	6.48	55.94	70.66	-14.72	QP	
6	0.8627	39.59	6.30	45.89	68.90	-23.01	QP	

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.

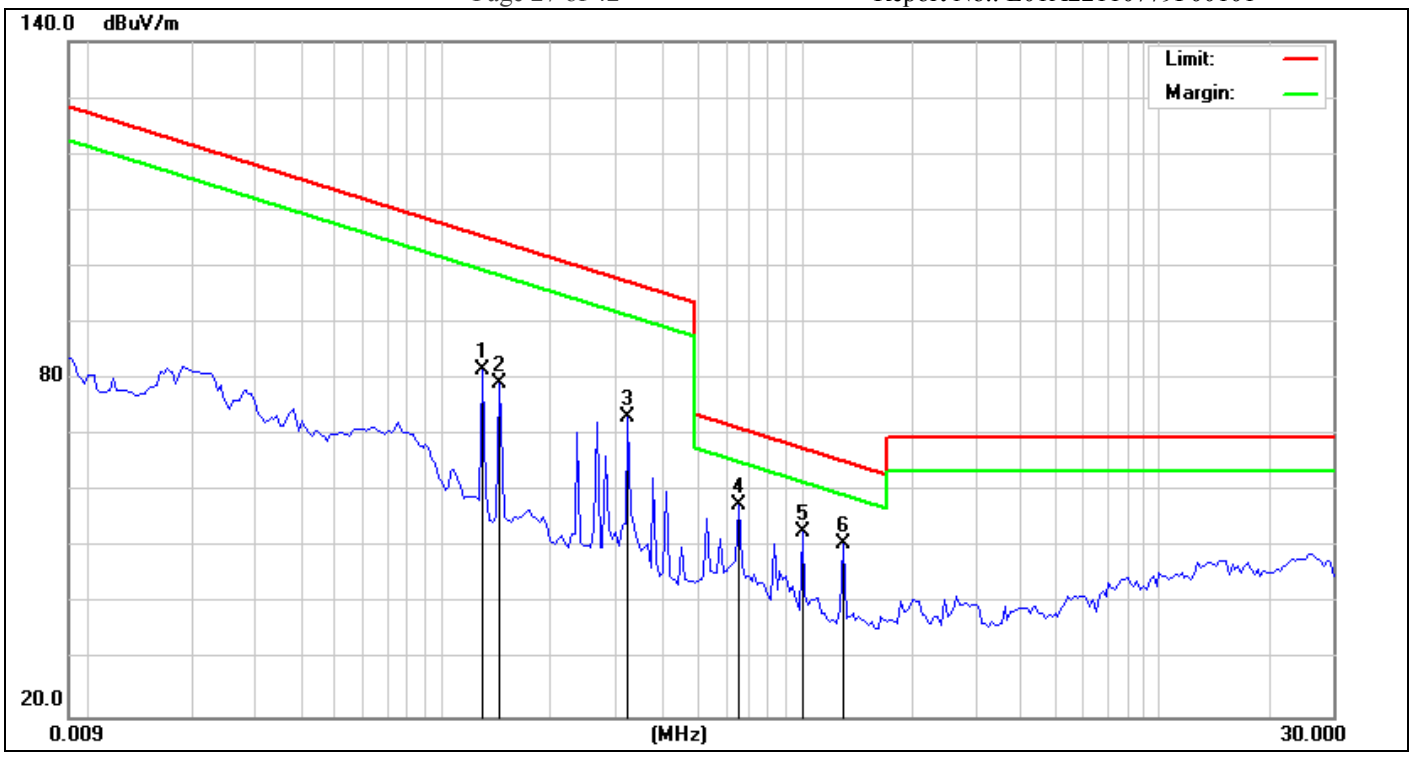
Test mode: Wireless Charging for iPhone+Airpods



Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15C 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for iPhone +Airpods**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.1282	77.33	6.20	83.53	105.37	-21.84	QP	
2	0.1391	74.26	6.15	80.41	104.67	-24.26	QP	
3	0.2356	62.03	5.66	67.69	100.12	-32.43	QP	
4	0.3259	66.95	5.80	72.75	97.32	-24.57	QP	
5 *	0.5410	54.38	6.34	60.72	72.94	-12.22	QP	
6	0.6491	50.32	6.44	56.76	71.36	-14.60	QP	

*:Maximum data x:Over limit !:over margin



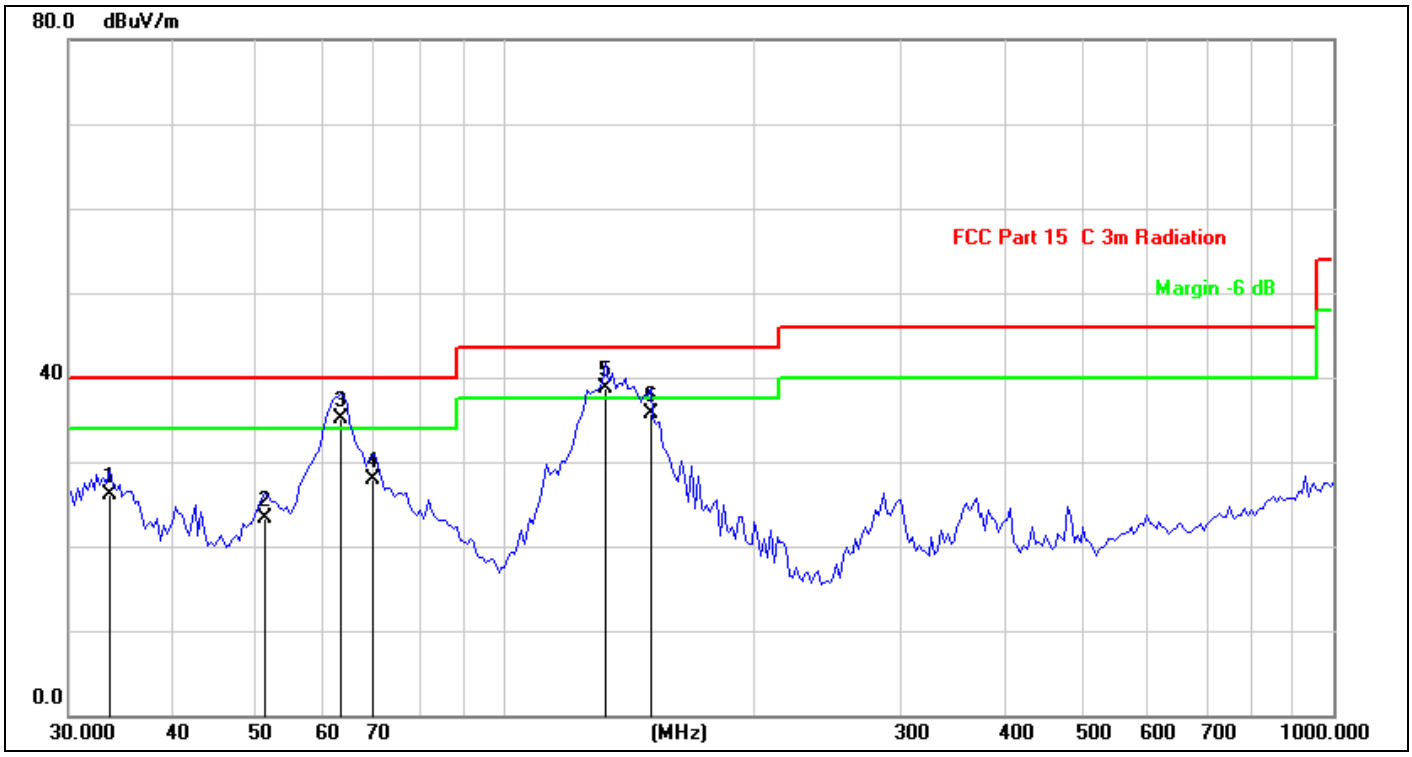
Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15C 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for iPhone+ Airpods**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.1280	75.33	6.20	81.53	105.39	-23.86	QP	
2	0.1418	73.07	6.14	79.21	104.50	-25.29	QP	
3	0.3259	67.45	5.80	73.25	97.32	-24.07	QP	
4 *	0.6622	51.15	6.45	57.60	71.19	-13.59	QP	
5	0.9939	46.66	6.05	52.71	67.67	-14.96	QP	
6	1.2942	44.59	6.13	50.72	65.39	-14.67	QP	

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 for iphone, Wireless Charging for Airpods，Wireless Charging for iphone +Airpods) for EUT. The worst test data see follow the table.

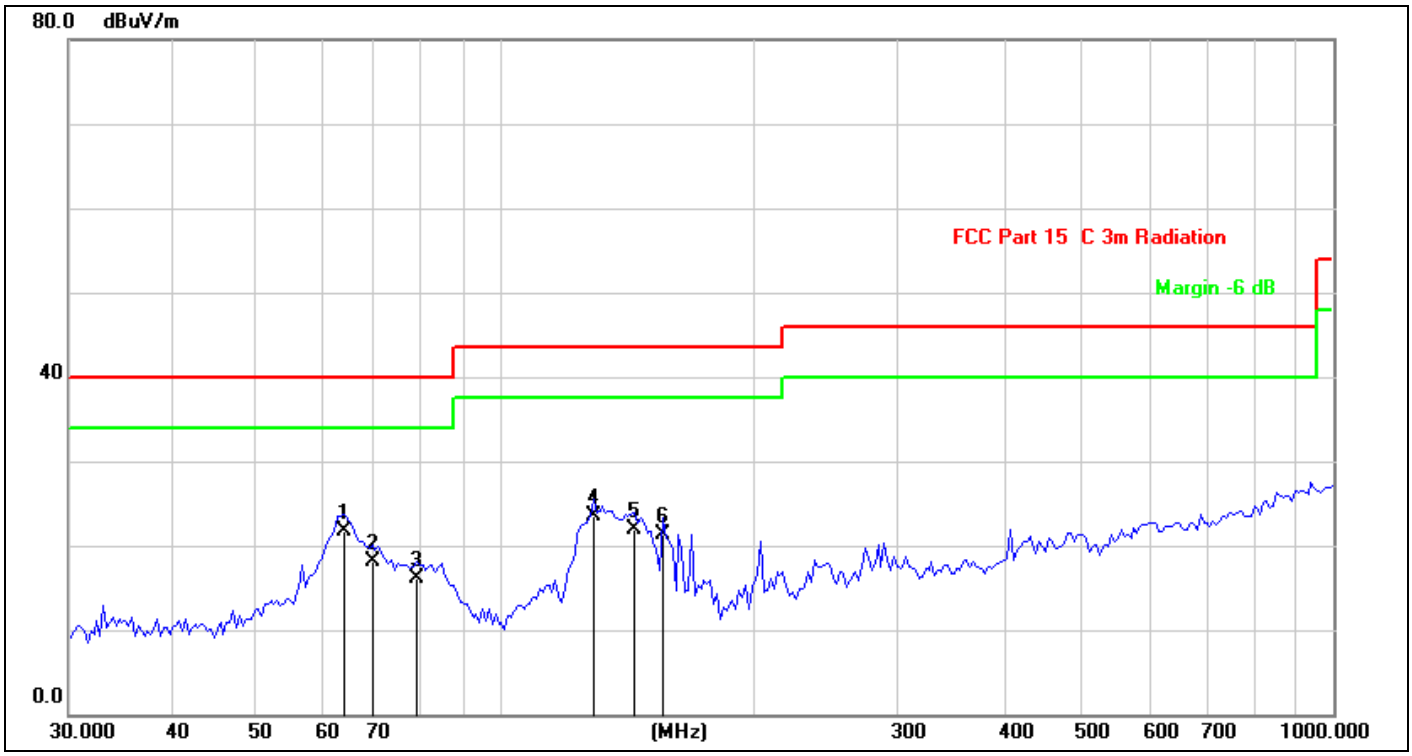
Test mode: Wireless Charging for iphone



Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for iphone**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	33.6212	44.23	-18.04	26.19	40.00	-13.81	QP	
2	51.6615	39.29	-15.94	23.35	40.00	-16.65	QP	
3 *	63.7588	51.89	-16.72	35.17	40.00	-4.83	QP	
4	69.6004	45.89	-17.99	27.90	40.00	-12.10	QP	
5	133.1511	57.21	-18.54	38.67	43.50	-4.83	QP	
6	150.5378	54.43	-18.79	35.64	43.50	-7.86	QP	

*:Maximum data x:Over limit !:over margin

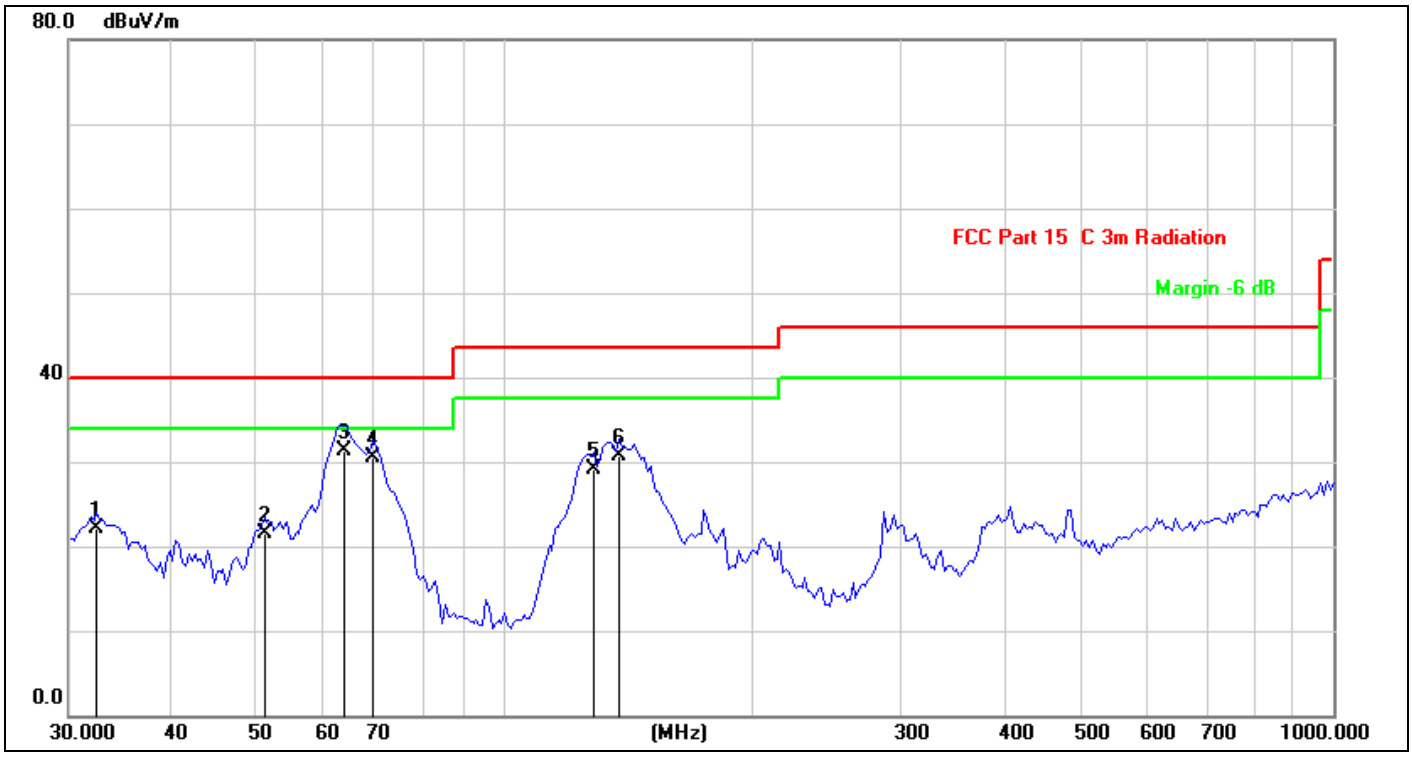


Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for iphone**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1 *	64.3202	38.63	-16.85	21.78	40.00	-18.22	QP	
2	69.6005	36.09	-17.99	18.10	40.00	-21.90	QP	
3	78.6888	34.40	-18.31	16.09	40.00	-23.91	QP	
4	128.5630	41.64	-18.13	23.51	43.50	-19.99	QP	
5	144.0819	40.82	-18.99	21.83	43.50	-21.67	QP	
6	155.9101	39.71	-18.48	21.23	43.50	-22.27	QP	

*:Maximum data x:Over limit !:over margin

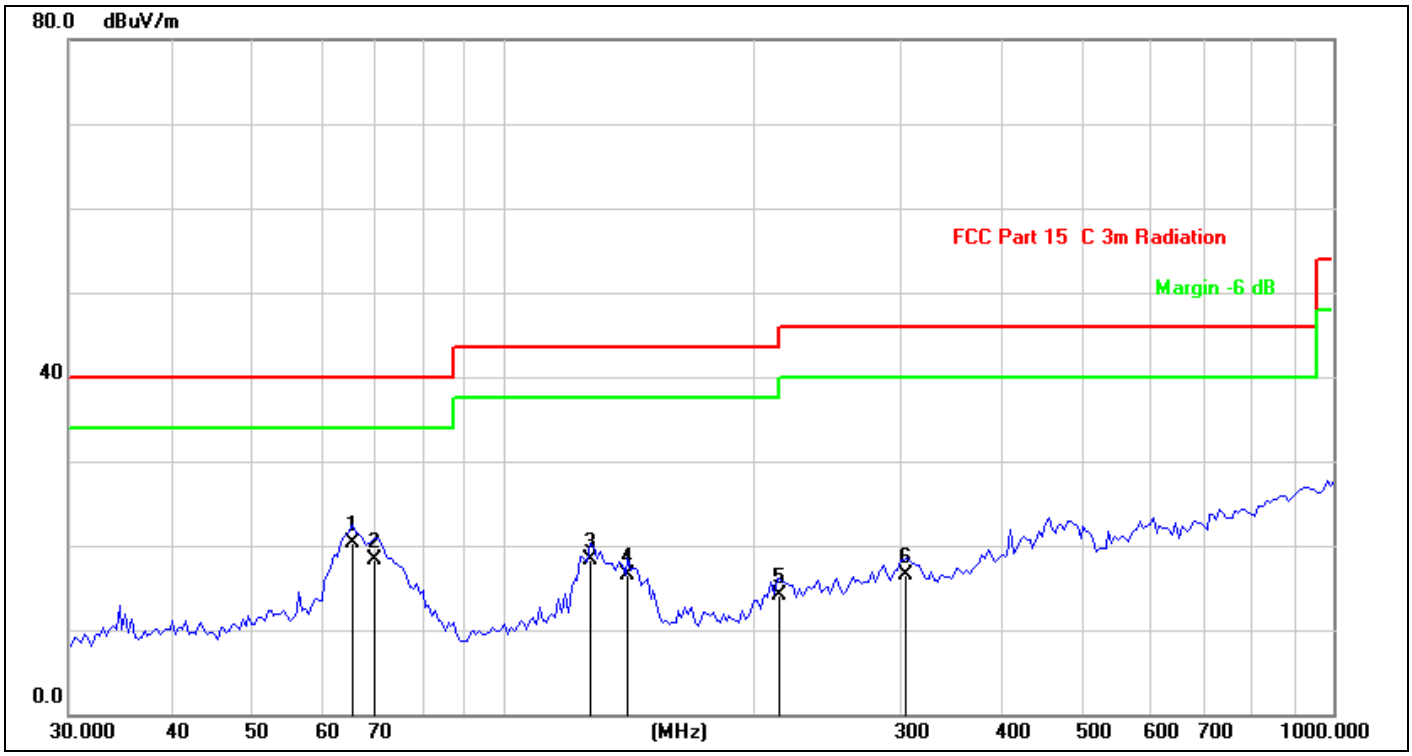
Test mode: Wireless Charging for Airpods



Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for Airpods**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	32.4628	40.34	-18.15	22.19	40.00	-17.81	QP	
2	51.6616	37.43	-15.94	21.49	40.00	-18.51	QP	
3 *	64.3202	48.25	-16.85	31.40	40.00	-8.60	QP	
4	69.6005	48.58	-17.99	30.59	40.00	-9.41	QP	
5	128.5630	47.17	-18.13	29.04	43.50	-14.46	QP	
6	137.9028	49.56	-18.93	30.63	43.50	-12.87	QP	

*:Maximum data x:Over limit !:over margin



Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for Airpods**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1 *	66.0342	37.62	-17.22	20.40	40.00	-19.60	QP	
2	70.2132	36.37	-18.08	18.29	40.00	-21.71	QP	
3	127.4409	36.39	-18.00	18.39	43.50	-25.11	QP	
4	141.5777	35.59	-19.06	16.53	43.50	-26.97	QP	
5	215.6456	29.65	-15.56	14.09	43.50	-29.41	QP	
6	306.2164	29.53	-13.01	16.52	46.00	-29.48	QP	

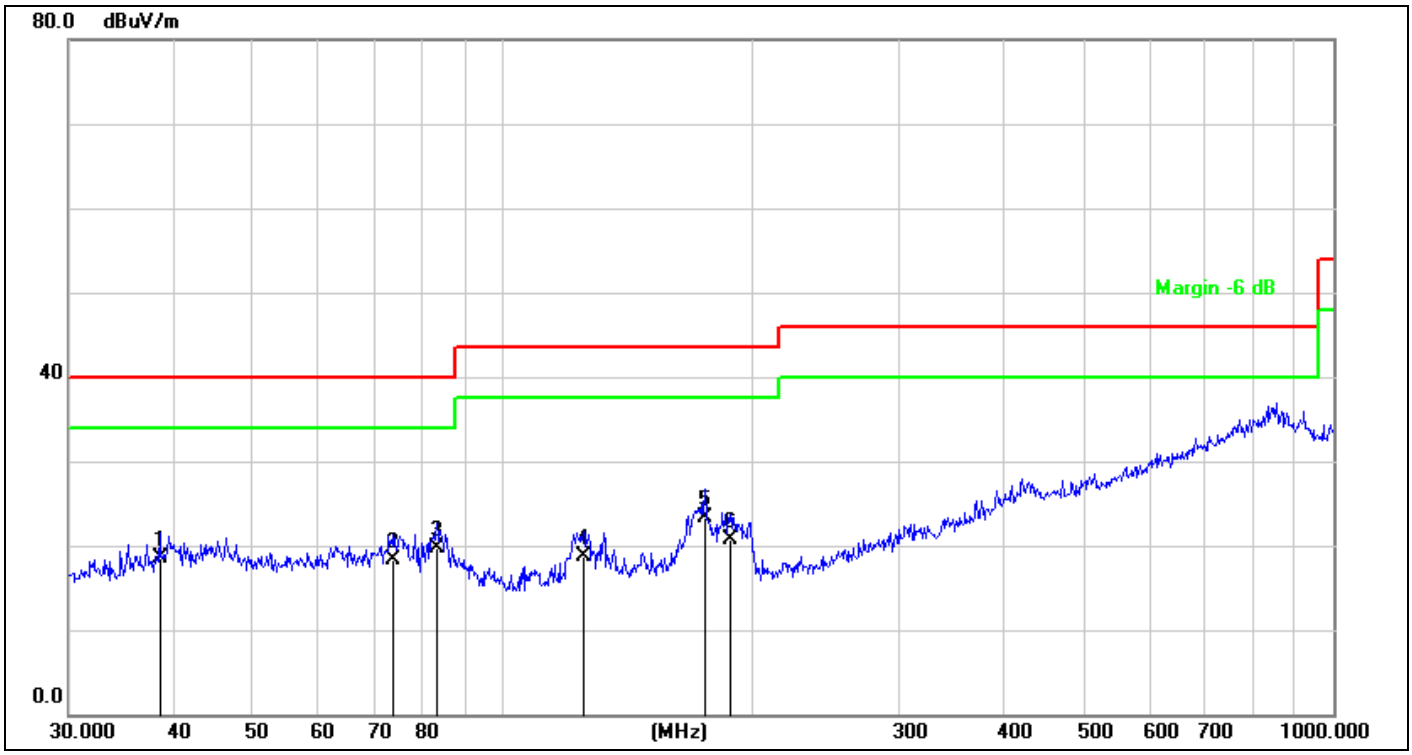
*:Maximum data x:Over limit !:over margin

Test mode: Wireless Charging for iPhone+ Airpods

Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for iPhone +Airpods**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	50.4089	34.15	-9.53	24.62	40.00	-15.38	QP	
2	81.4970	34.05	-12.40	21.65	40.00	-18.35	QP	
3 *	132.6850	35.83	-11.79	24.04	43.50	-19.46	QP	
4	147.9214	36.00	-11.37	24.63	43.50	-18.87	QP	
5	172.5988	43.67	-11.34	32.33	43.50	-11.17	QP	
6	191.0738	40.72	-11.23	29.49	43.50	-14.01	QP	

*:Maximum data x:Over limit !:over margin

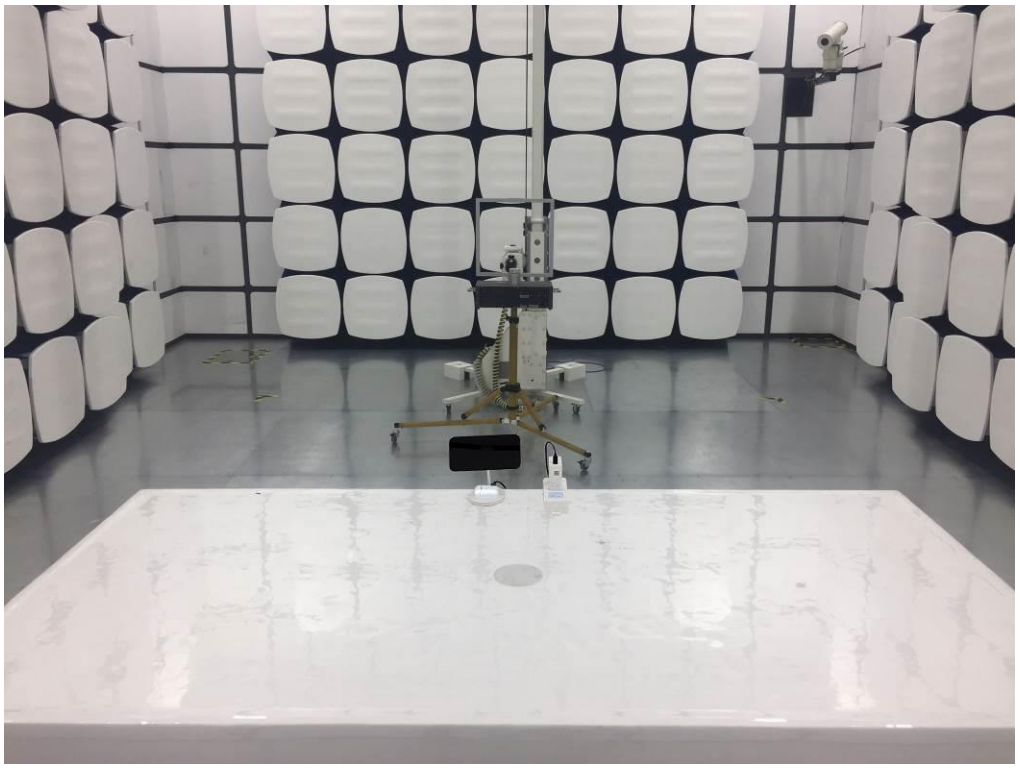


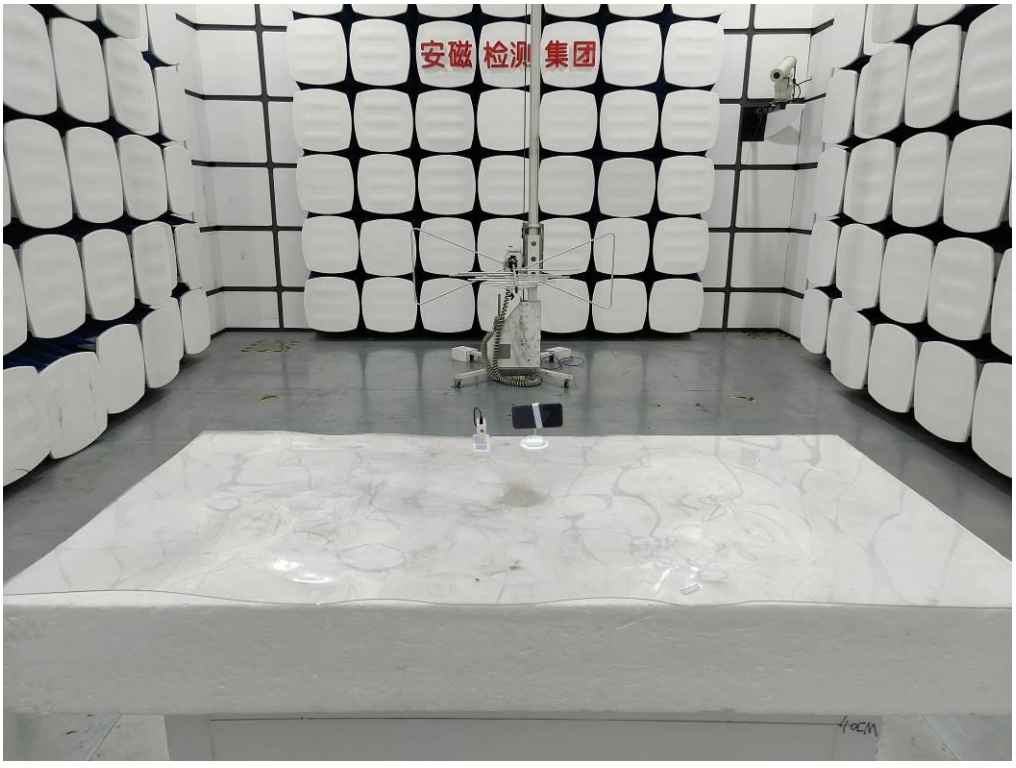
Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**2-in-1 Power Charging Station**	**Test Time:**	**2022/12/07**
M/N.:	**CQ050773**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging for iPhone+ Airpods**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1 *	38.6160	29.23	-10.78	18.45	40.00	-21.55	QP	
2	73.8756	29.44	-11.11	18.33	40.00	-21.67	QP	
3	83.2298	32.25	-12.54	19.71	40.00	-20.29	QP	
4	125.0066	30.48	-11.73	18.75	43.50	-24.75	QP	
5	175.0368	34.61	-11.24	23.37	43.50	-20.13	QP	
6	187.7530	31.98	-11.37	20.61	43.50	-22.89	QP	

*:Maximum data x:Over limit !:over margin

6.6 Radiated Measurement Photos





7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

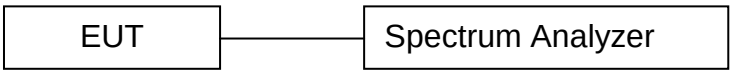
7.2 Test Instruments

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.

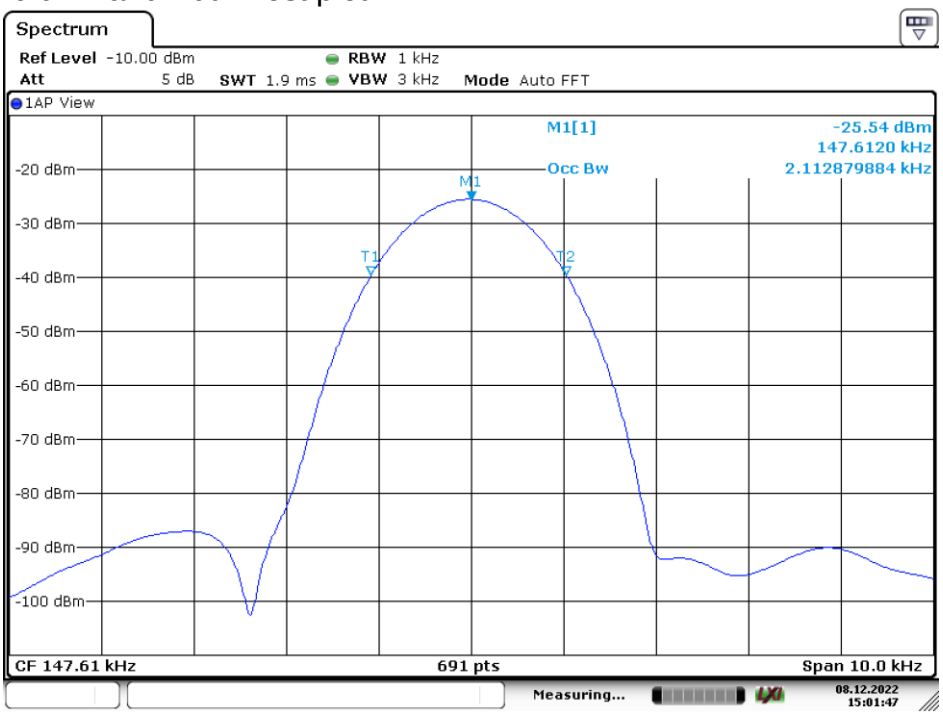
7.4 Test Setup



7.5 Test Result

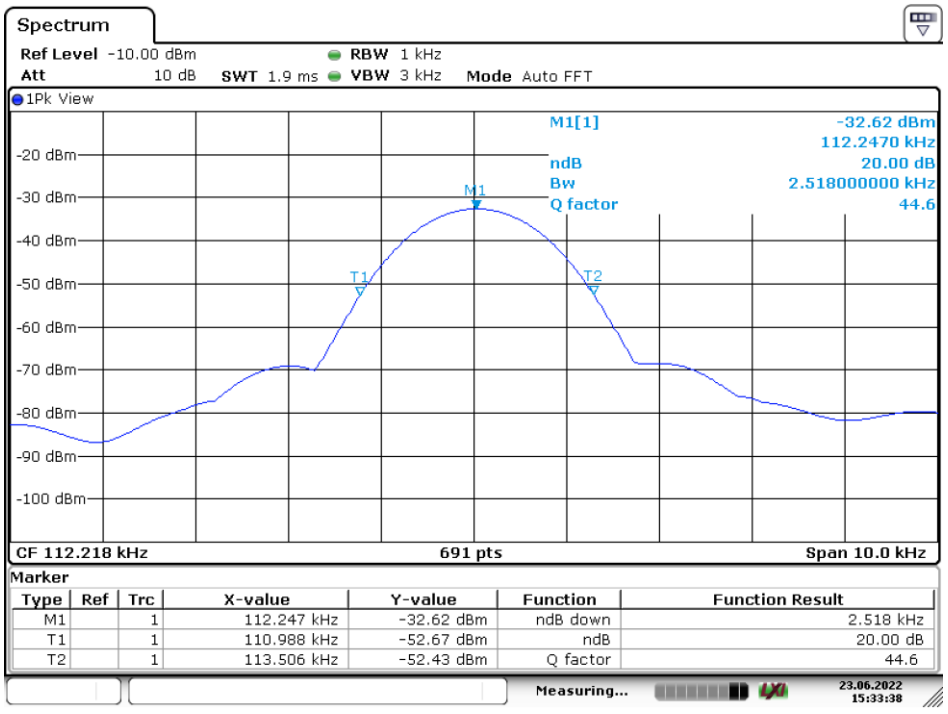
Charging Mode	Frequency (KHz)	20dB Bandwidth (KHz)	Results
iPhone	147.6	2.113	PASS
Airpods	112.2	2.518	PASS

20 dB Bandwidth Test plot



Date: 8.DEC.2022 15:01:47

Wireless Charging for iPhone



Date: 23.JUN.2022 15:33:37

Wireless Charging for Airpods

8 Antenna Application

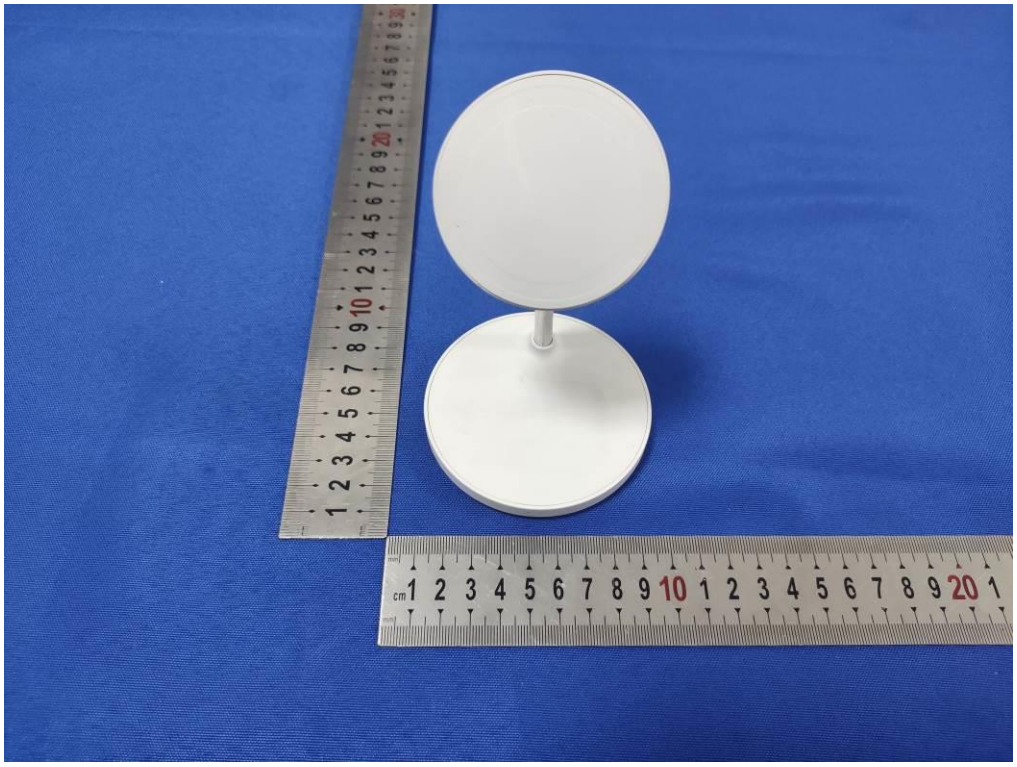
8.1 Antenna requirement

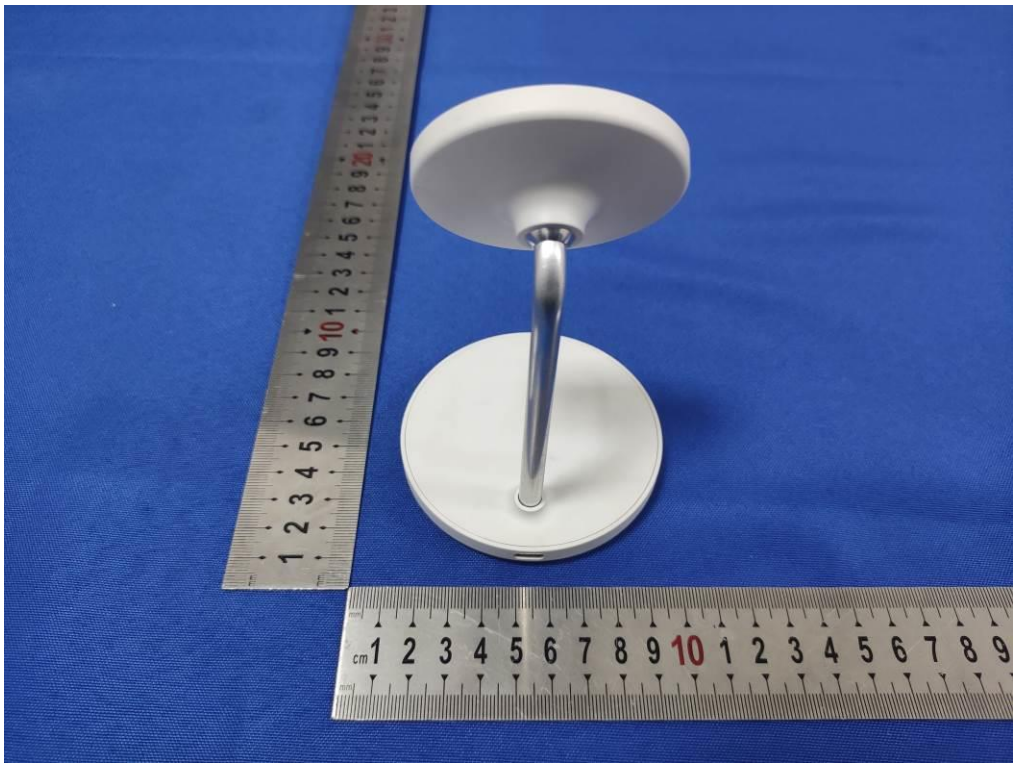
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

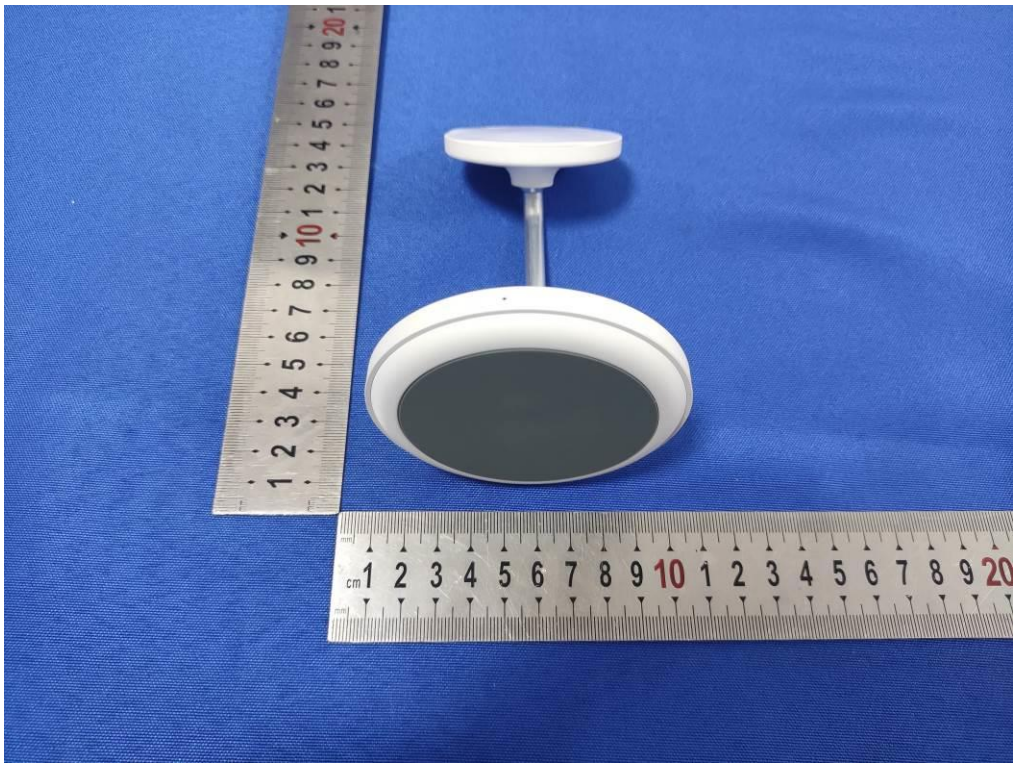
8.2 Result

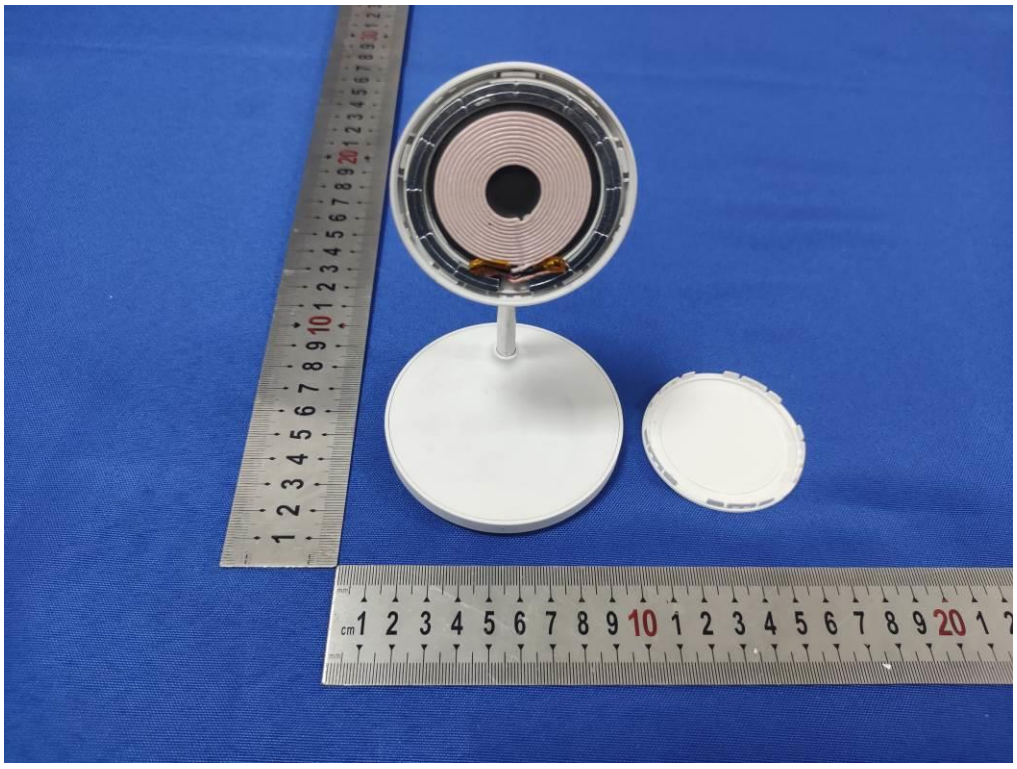
The EUT's antenna, permanent attached antenna, used an Induction coil and integrated on PCB, The antenna's gain meets the requirement.

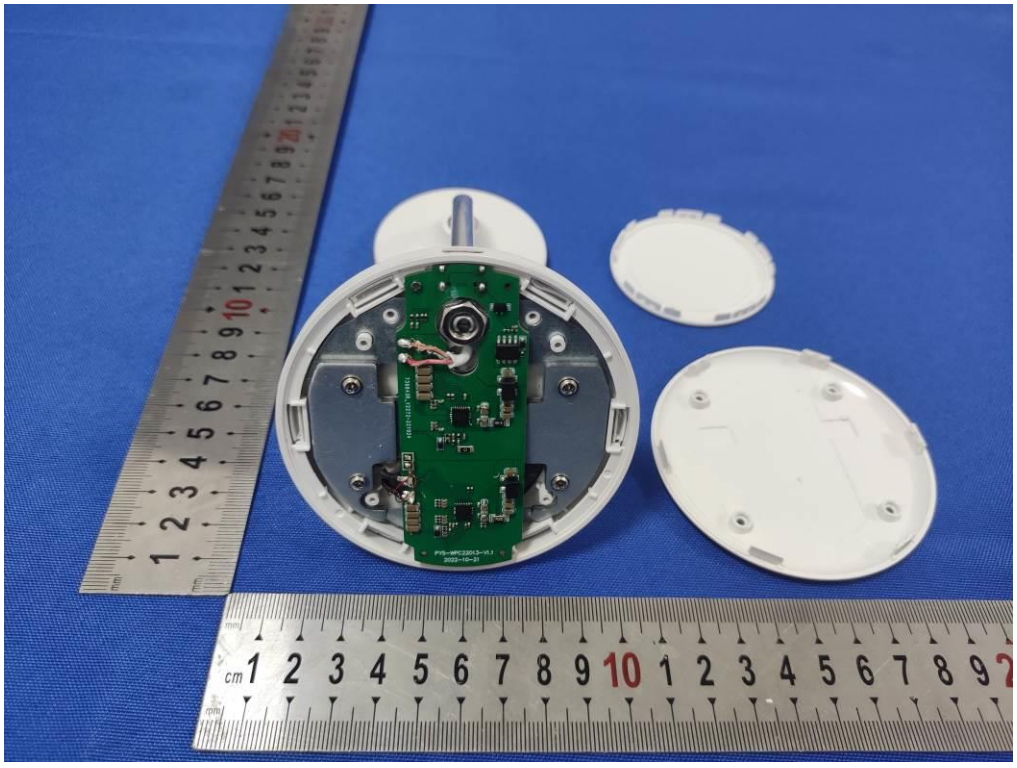
APPENDIX
(Photos of EUT)

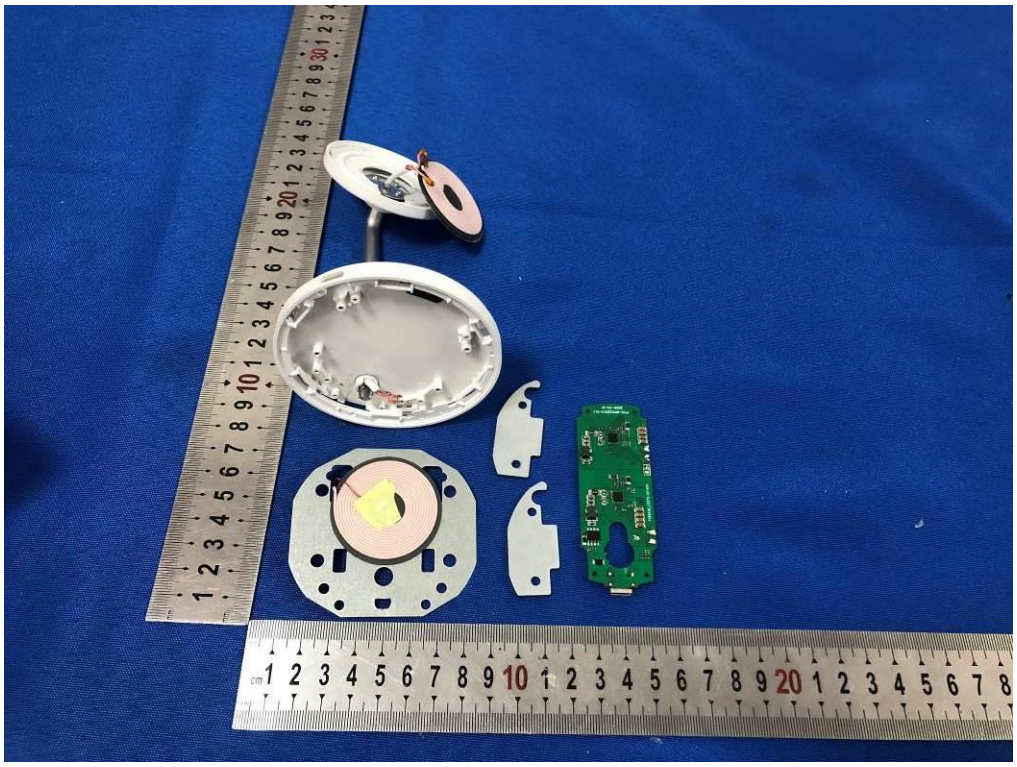


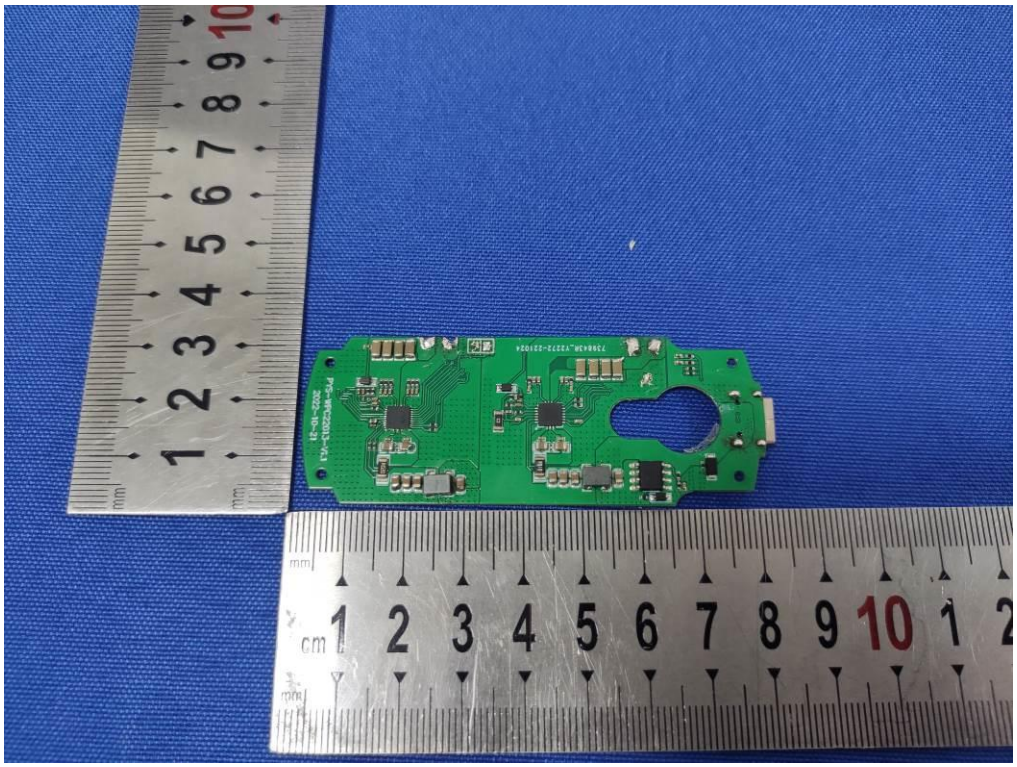


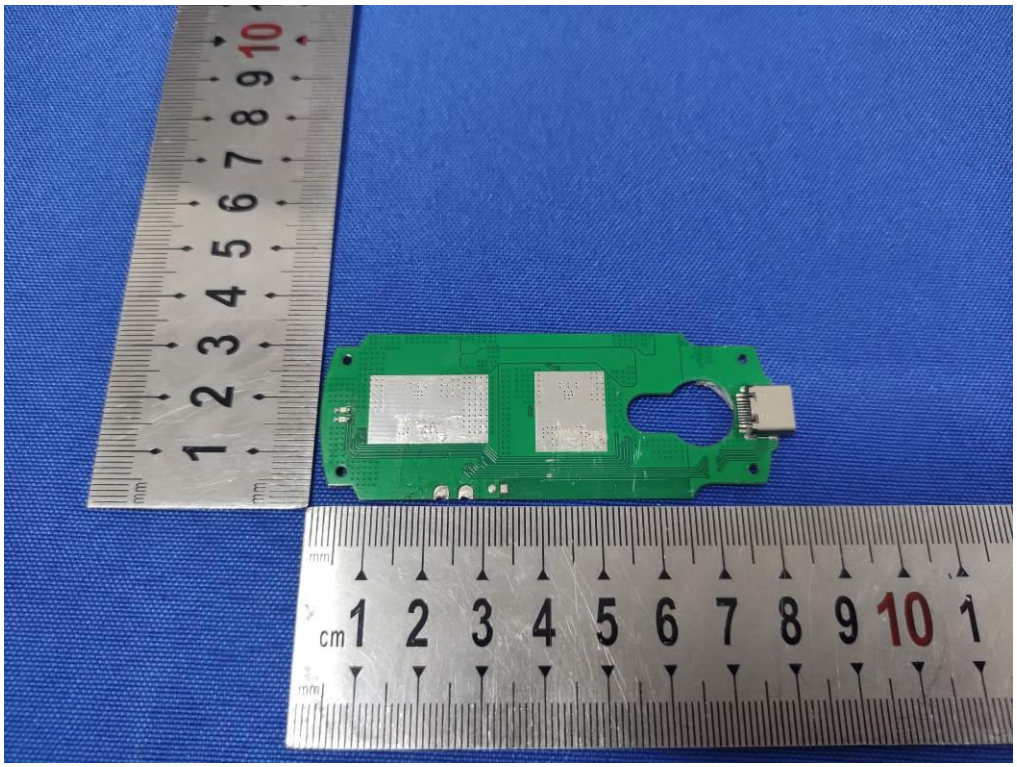












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