RF REPORT

FCC ID: 2AP2N-FARER

On Behalf of

Shenzhen Esorun Technology Co.,LTD

3in1 Wireless charging station

Model No.: Farer 3in1

Prepared for	:	Shenzhen Esorun Technology Co.,LTD
Address	:	Room 226, Building A, B, C, Zone B, Yuanfen Industrial Zone, Taoyuan Community, Dalang Street, Longhua District, Shenzhen

Prepared By	:	Shenzhen Alpha Product Testing Co., Ltd
Address	:	Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

Report Number	:	A2212031-C01-R08
Date of Receipt	:	March 16, 2023
Date of Test	:	March 16, 2023 to March 22, 2023
Date of Report	:	March 22, 2023
Version Number	:	V0

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TEST REPORT DECLARATION

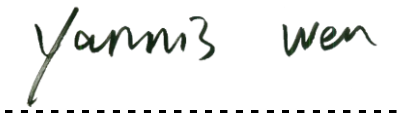
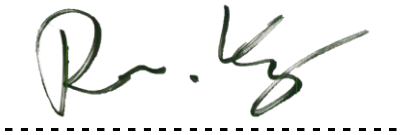
Applicant	:	Shenzhen Esorun Technology Co.,LTD
Address	:	Room 226, Building A, B, C, Zone B, Yuanfen Industrial Zone, Taoyuan Community, Dalang Street, Longhua District, Shenzhen
Manufacturer	:	Shenzhen Esorun Technology Co.,LTD
Address	:	Room 226, Building A, B, C, Zone B, Yuanfen Industrial Zone, Taoyuan Community, Dalang Street, Longhua District, Shenzhen
EUT Description	:	3in1 Wireless charging station
(A)	Model No.	: Farer 3in1
(B)	Trademark	: ESORUN

Measurement Standard Used:

FCC CFR Title 47 Part 15 Subpart C Section 15.209

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with above listed standard(s) requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature) ..... :	Yannis Wen Project Engineer	
Approved by (name + signature) ..... :	Reak Yang Project Manager	
Date of issue ..... :	March 22, 2023	

Revision History

Revision	Issue Date	Revisions	Revised By
V0	March 22, 2023	Initial released Issue	Yannis Wen

1 General Information

1.1 Description of Device (EUT)

Product Name	:	3in1 Wireless charging station
Trademark	:	ESORUN
Model Number	:	Farer 3in1
Power Supply	:	Input : 5V⎓2A, 9V⎓2A,12V⎓2A Wireless Output1(for mobile): 5W, 7.5W, 10W, 15W(Max) Wireless Output2(for Airpdods): 5W(Max) Wireless Output3(for iWatch): 3W(Max) Simultaneous Output: 10W(Max)+3W(Max)+3W(Max)
Operation Frequency	:	115k-205kHz and 325kHz
Number of Channels	:	2
Modulation Type	:	MSK
Antenna Type	:	Coil Antenna
Antenna Gain	:	0dBi
Hardware Version	:	V1.1
Software Version	:	V1.0

1.2 Ancillary equipment Details

Title	Manufacturer	Model No.	Serial No.
Load	YBZ	N/A	N/A
Load	N/A		
Adapter	Shenzhen HUONIU Technology Co., Ltd.	HNFCQC3024UU	N/A

1.3 Test Lab information

Shenzhen Alpha Product Testing Co., Ltd Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China
June 21, 2018 File on Federal Communication Commission Registration Number: 293961 Designation Number: CN1236 July 15, 2019 Certificated by IC Registration Number: CN0085

2 Summary of test

2.1 Test Standard description:

The tests were performed according to following standards:

47 CFR Part 15.209: Radiated emission limits; general requirements

2.2 Summary of test

Item	Requirement	Method	Result
Conducted Emission at AC power line	47 CFR 15.207(a)	ANSI C63.10-2013 section 6.2	Pass
20dB Occupied Bandwidth	47 CFR 15.215(c)	ANSI C63.10-2013, section 6.9.2	Pass
Emissions in restricted frequency bands (below 30MHz)	47 CFR 15.209	ANSI C63.10-2013 section 6.6.4	Pass
Emissions in restricted frequency bands (30MHz - 1GHz)	47 CFR 15.209	ANSI C63.10-2013 section 6.6.4	Pass

2.3 Test Mode Description

No	Title	Description
TM1	TX(For Mobile)	125kHz
TM2	TX(For Airpods)	148kHz
TM3	TX(For iWatch)	325kHz
TM4	TX	125k+148k+325k

2.4 Test Equipment

Conducted Emission at AC power line					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
L.I.S.N.	SCHWARZBECK	NSLK8126	8126-466	2022-08-22	2023-08-21
Pulse Limiter	SCHWARZBECK	9516F	9618	2022-08-22	2023-08-21
Test Receiver	ROHDE&SCHWARZ	ESCI	101165	2022-08-22	2023-08-21
L.I.S.N.	ROHDE&SCHWARZ	ENV216	101043	2022-08-23	2023-08-21
RF Cable	Resenberger	Cable 3	CE1	2022-08-22	2023-08-21
Passiver VOLtageprobe	ROHDE&SCHWARZ	ESH2-Z3	0299.7810.56	2022-08-22	2023-08-21
ISN	SCHWARZBECK	CAT3 8158	CAT3 8158 #167	2022-03-30	2023-03-29
ISN	SCHWARZBECK	NTFM 8158	S/N: 00273	2022-03-30	2023-03-29
ISN	SCHWARZBECK	NTFM 8131	S/N: 00286	2022-03-30	2023-03-29
ISN	SCHWARZBECK	CAT5 8158	S/N: 00316	2022-03-30	2023-03-29

20dB Occupied Bandwidth					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
CMU200	ROHDE&SCHWARZ	CMU200	116785	2022-08-22	2023-08-21
Signal Analyzer	Agilent	N9020A	MY499100060	2022-08-22	2023-08-21
vector Signal Generator	Agilent	N5182A	MY49060042	2022-08-22	2023-08-21
vector Signal Generator	Agilent	E4438C	US44271917	2022-08-22	2023-08-21
Power Sensor	DARE	RPR3006W	15100041SNO91	2022-08-22	2023-08-21
Power Sensor	DARE	RPR3006W	15100041SNO92	2022-08-22	2023-08-21
CMW500	ROHDE&SCHWARZ	CMW500	1201.0002K50-117239-sM	2022-08-22	2023-08-21

Emissions in restricted frequency bands (below 30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Bilog Antenna	SCHWARZBECK	VULB 9168	VULB 9168#627	2021-08-30	2023-08-29
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2022-05-17	2025-05-16
8*4*3 Shielded room	CHENYU	8*4*3	N/A	2022-05-17	2025-05-16
Filter	SKET	HPF_1-18G-55dB	N/A	2022-08-22	2023-08-21
Filter	WAINWRIGHT	WHKX2.80/18G-12SS	SN1	2022-08-22	2023-08-21
Amplifier	HP	HP8347A	2834A00455	2022-08-22	2023-08-21
Amplifier	Agilent	8449B	3008A02664	2022-08-22	2023-08-21
RF Cable	Resenberger	Cable 1	RE1	2022-08-22	2023-08-21

Loop Antenna	SCHWARZBECK	FMZB 1519B	00128	2021-08-30	2023-08-29
Spectrum analyzer	ROHDE&SCHWARZ	FSU	200002	2022-08-22	2023-08-21
Preamplifier	SKET	LNPA_1840-50	SK2018101801	2022-08-22	2023-08-21
RF Cable	ZDECL	291LK01ATB291	05302018#1	2022-08-22	2023-08-21
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	102137	2022-08-22	2023-08-21
Filter/Amplifier bank unit	SKET	RSESU-HPH-LNPP18G	SK20190712	2022-08-22	2023-08-21
Amplifier	SKET	LNPA_0118G-45	SK2020010801	2022-08-22	2023-08-21
RF Cable	ZDECL	291LK01ATB291	05302018#2	2022-08-22	2023-08-21

Emissions in restricted frequency bands (30MHz - 1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Bilog Antenna	SCHWARZBECK	VULB 9168	VULB 9168#627	2021-08-30	2023-08-29
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2022-05-17	2025-05-16
8*4*3 Shielded room	CHENYU	8*4*3	N/A	2022-05-17	2025-05-16
Filter	SKET	HPF_1-18G-55dB	N/A	2022-08-22	2023-08-21
Filter	WAINWRIGHT	WHKX2.80/18G-12SS	SN1	2022-08-22	2023-08-21
Amplifier	HP	HP8347A	2834A00455	2022-08-22	2023-08-21
Amplifier	Agilent	8449B	3008A02664	2022-08-22	2023-08-21
RF Cable	Resenberger	Cable 1	RE1	2022-08-22	2023-08-21
Loop Antenna	SCHWARZBECK	FMZB 1519B	00128	2021-08-30	2023-08-29
Spectrum analyzer	ROHDE&SCHWARZ	FSU	200002	2022-08-22	2023-08-21
Preamplifier	SKET	LNPA_1840-50	SK2018101801	2022-08-22	2023-08-21
RF Cable	ZDECL	291LK01ATB291	05302018#1	2022-08-22	2023-08-21
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	102137	2022-08-22	2023-08-21
Filter/Amplifier bank unit	SKET	RSESU-HPH-LNPP18G	SK20190712	2022-08-22	2023-08-21
Amplifier	SKET	LNPA_0118G-45	SK2020010801	2022-08-22	2023-08-21
RF Cable	ZDECL	291LK01ATB291	05302018#2	2022-08-22	2023-08-21

3 Radio Spectrum Matter Test Results (RF)

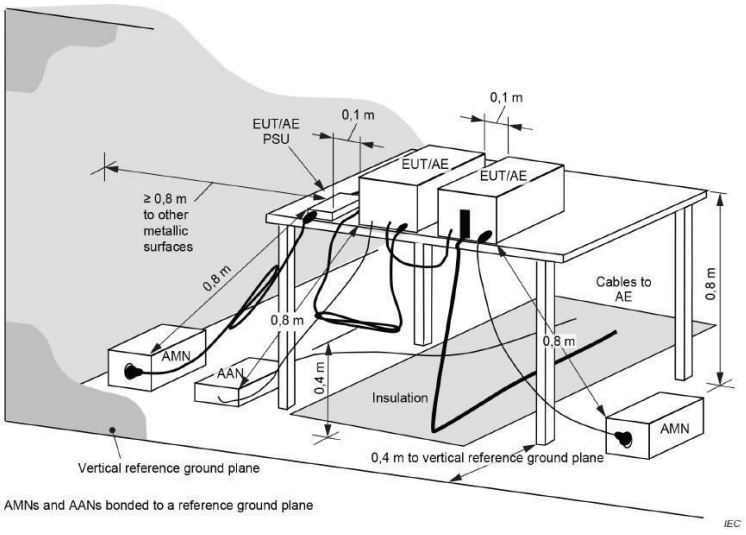
3.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that 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 the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).
Test Limit:	Frequency of emission (MHz) / Conducted limit (dBμV): Quasi-peak / Average 0.15-0.5: 66 to 56* / 56 to 46* 0.5-5: 56 / 46 5-30: 60 / 50 *Decreases with the logarithm of the frequency.
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices

3.1.1 E.U.T. Operation:

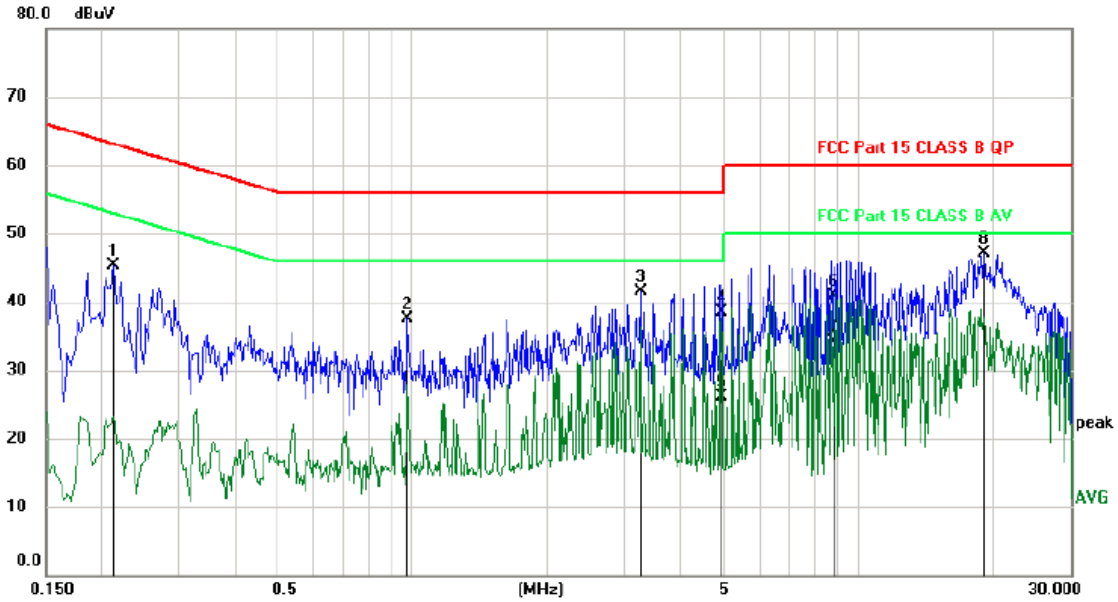
Operating Environment:					
Temperature:	22.6 °C	Humidity:	52 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM4				

3.1.2 Test Setup Diagram:



3.1.3 Test Result:

TM4 / Line: Line

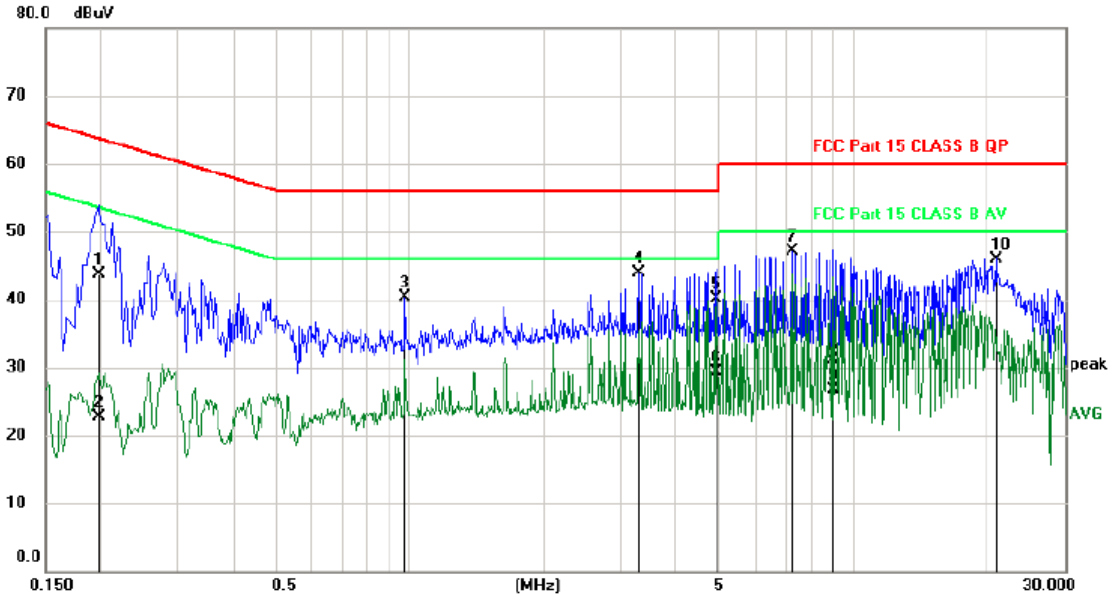


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2130	35.17	10.10	45.27	63.09	-17.82	peak	
2		0.9750	27.04	10.40	37.44	56.00	-18.56	peak	
3		3.2460	30.93	10.51	41.44	56.00	-14.56	peak	
4		4.9500	27.89	10.64	38.53	56.00	-17.47	QP	
5		4.9500	15.50	10.64	26.14	46.00	-19.86	AVG	
6		8.8110	30.04	10.78	40.82	60.00	-19.18	QP	
7		8.8110	23.24	10.78	34.02	50.00	-15.98	AVG	
8	*	19.1669	36.14	11.04	47.18	60.00	-12.82	peak	

*:Maximum data x:Over limit !:over margin (Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

TM4 / Line: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1980	33.60	10.09	43.69	63.69	-20.00	QP	
2		0.1980	12.70	10.09	22.79	53.69	-30.90	AVG	
3		0.9780	29.98	10.41	40.39	56.00	-15.61	peak	
4	*	3.2790	33.35	10.51	43.86	56.00	-12.14	peak	
5		4.9200	29.50	10.64	40.14	56.00	-15.86	QP	
6		4.9200	18.61	10.64	29.25	46.00	-16.75	AVG	
7		7.2630	36.47	10.72	47.19	60.00	-12.81	peak	
8		8.9880	20.36	10.78	31.14	60.00	-28.86	QP	
9		8.9880	15.92	10.78	26.70	50.00	-23.30	AVG	
10		20.9730	34.95	11.05	46.00	60.00	-14.00	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

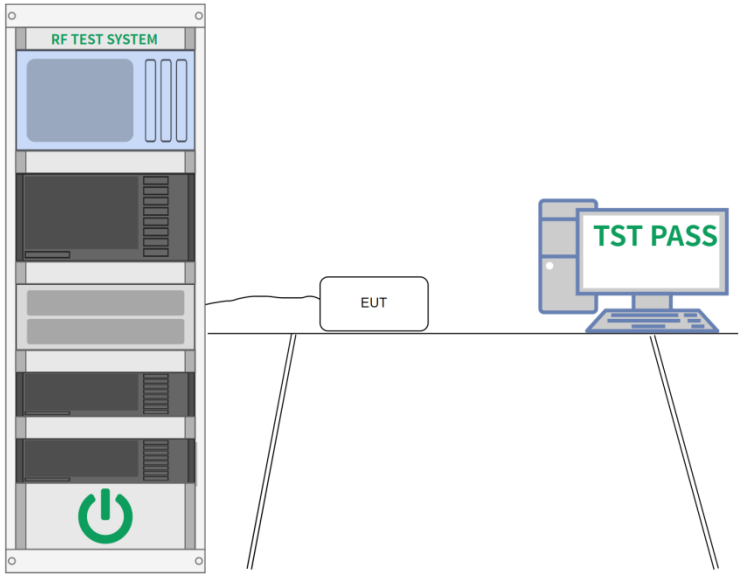
3.2 20dB Occupied Bandwidth

Test Requirement:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB 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.
Test Limit:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB 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.
Test Method:	Occupied bandwidth—relative measurement procedure
Procedure:	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “−xx dB down” requirement; that is, if the requirement calls for measuring the −20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the “−xx dB down amplitude” using [(reference value) − xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “−xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

3.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.1 °C	Humidity:	55.9 %	Atmospheric Pressure:	101.6 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3				

3.2.2 Test Setup Diagram:

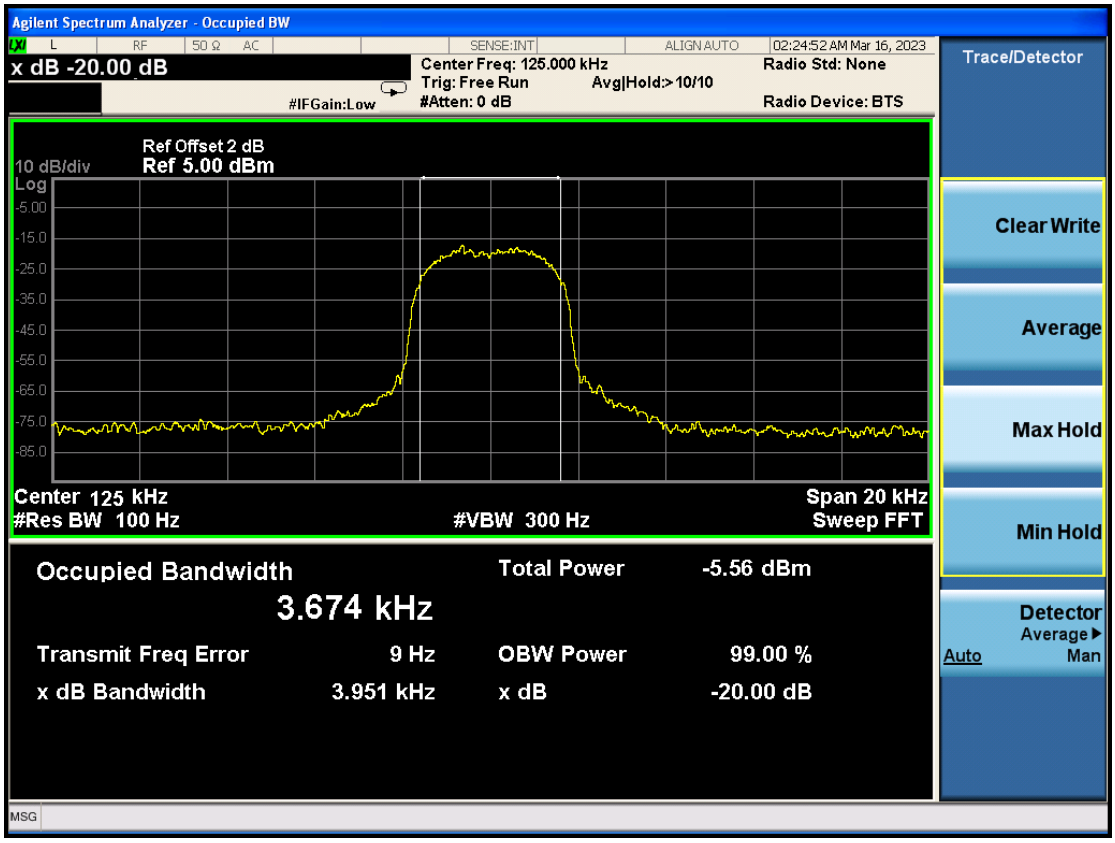


3.2.3 Test Result:

For Mobile

Frequency(kHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
125	3.951	---	PASS

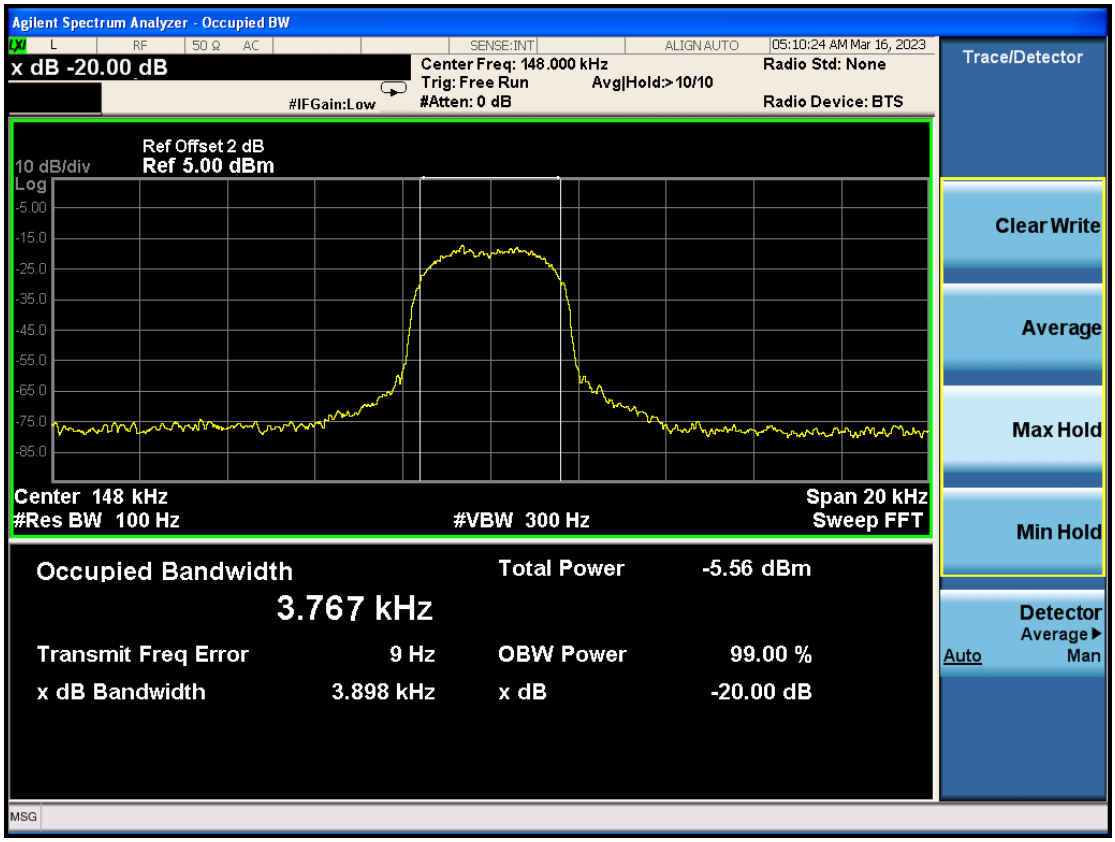
Test plots as follows:



For Airpods

Frequency(kHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
148	3.898	---	PASS

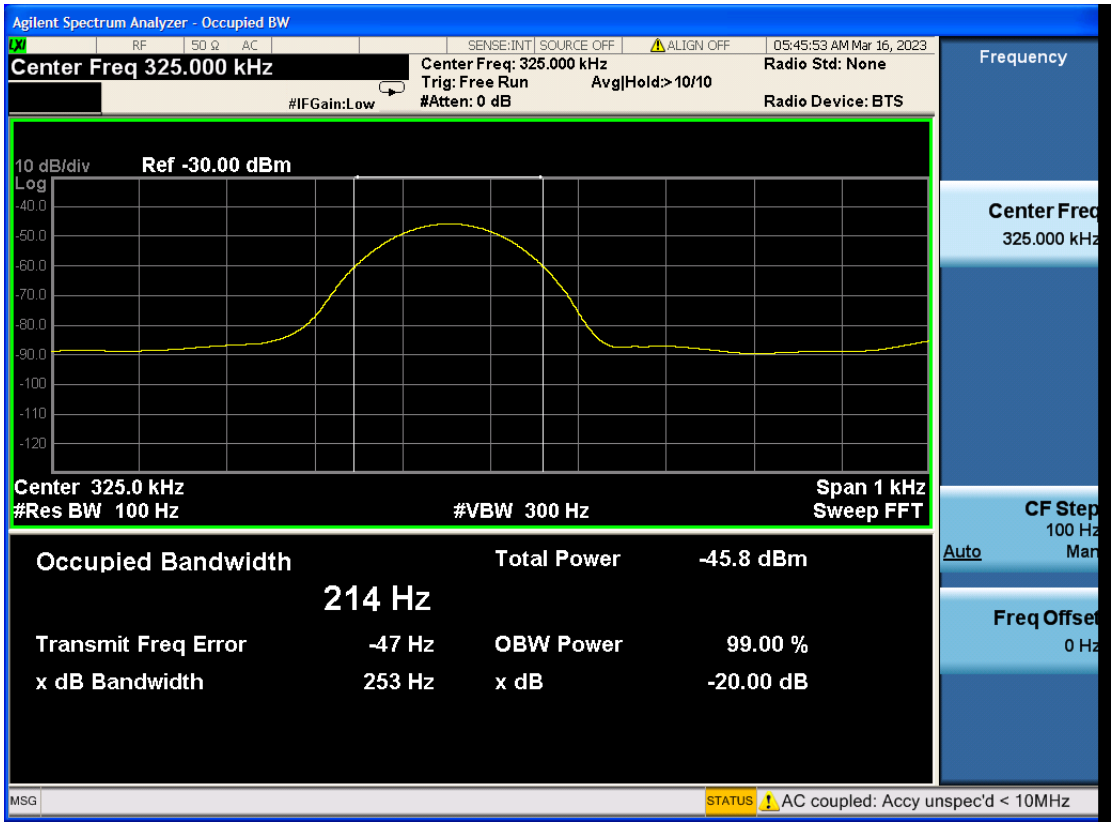
Test plots as follows:



For iWatch

Frequency(kHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
325	0.253	---	PASS

Test plots as follows:



3.3 Emissions in restricted frequency bands (below 30MHz)

<table>
<tr><td>Test Requirement:</td><td>47 CFR 15.209</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

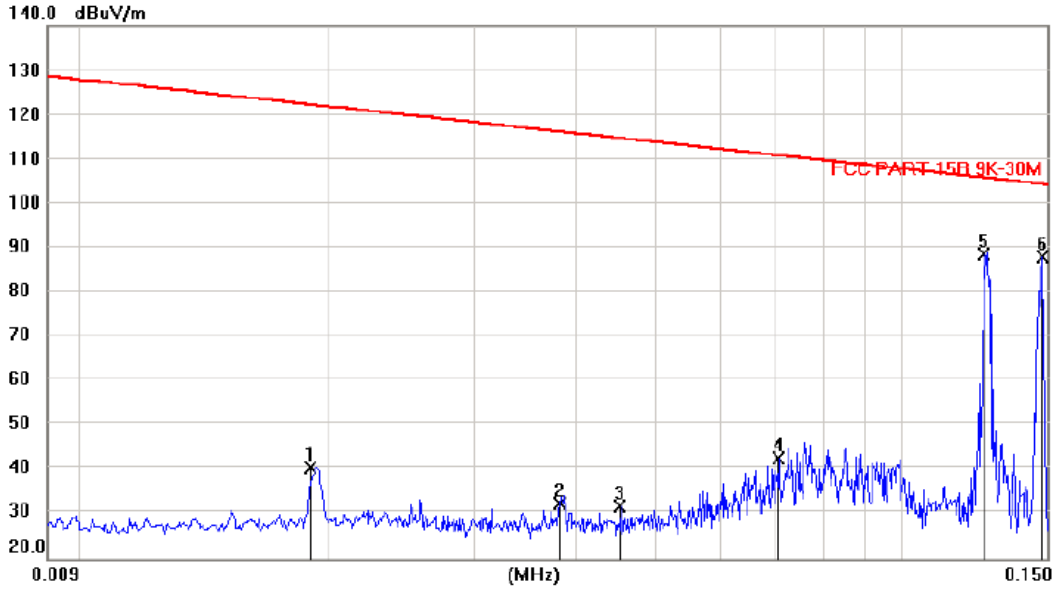
As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)and (b)of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.
</td></tr>
<tr><td>Test Method:</td><td>Radiated emissions tests</td></tr>
<tr><td>Procedure:</td><td>ANSI C63.10-2013 section 6.6.4</td></tr>
</table>

3.3.1 E.U.T. Operation:

<table>
<tr><td colspan="6">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>24.1 °C</td><td>Humidity:</td><td>55.9 %</td><td>Atmospheric Pressure:</td><td>101.6 kPa</td></tr>
<tr><td colspan="2">Pre test mode:</td><td colspan="4">TM1, TM2, TM3, TM4</td></tr>
<tr><td colspan="2">Final test mode:</td><td colspan="4">TM1, TM4</td></tr>
</table>

3.3.2 Test Result:

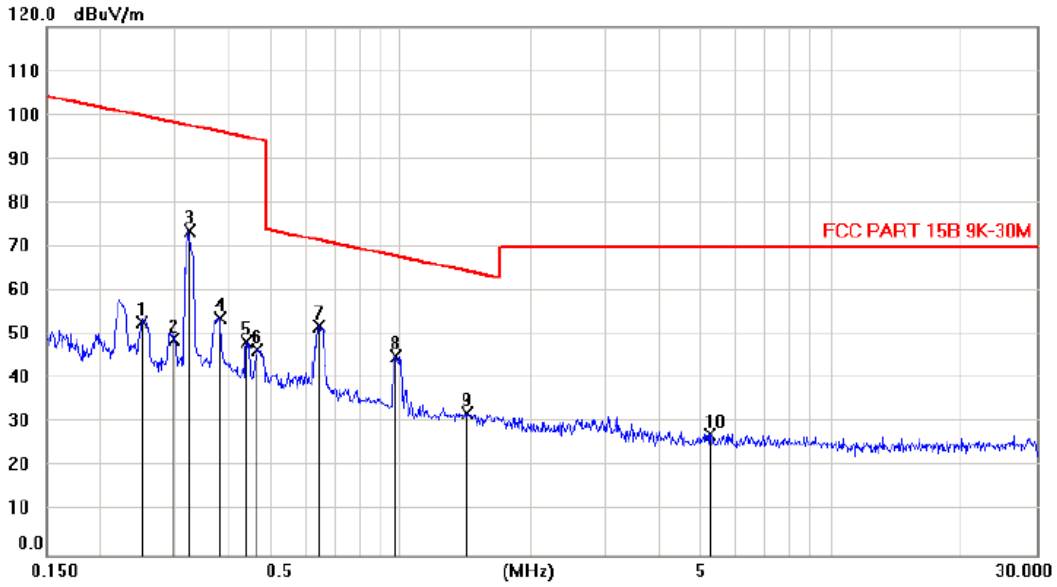
TM4 / Polarization: Coplanar



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.0189	19.39	21.27	40.66	122.1	-81.52	peak			
2		0.0381	11.94	20.55	32.49	116.1	-83.62	peak			
3		0.0451	11.69	20.17	31.86	114.6	-82.79	peak			
4		0.0704	22.37	20.19	42.56	110.8	-68.24	peak			
5		0.1250	68.57	19.85	88.42	105.8	-17.41	peak			
6	*	0.1479	67.74	20.17	87.91	104.3	-16.46	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

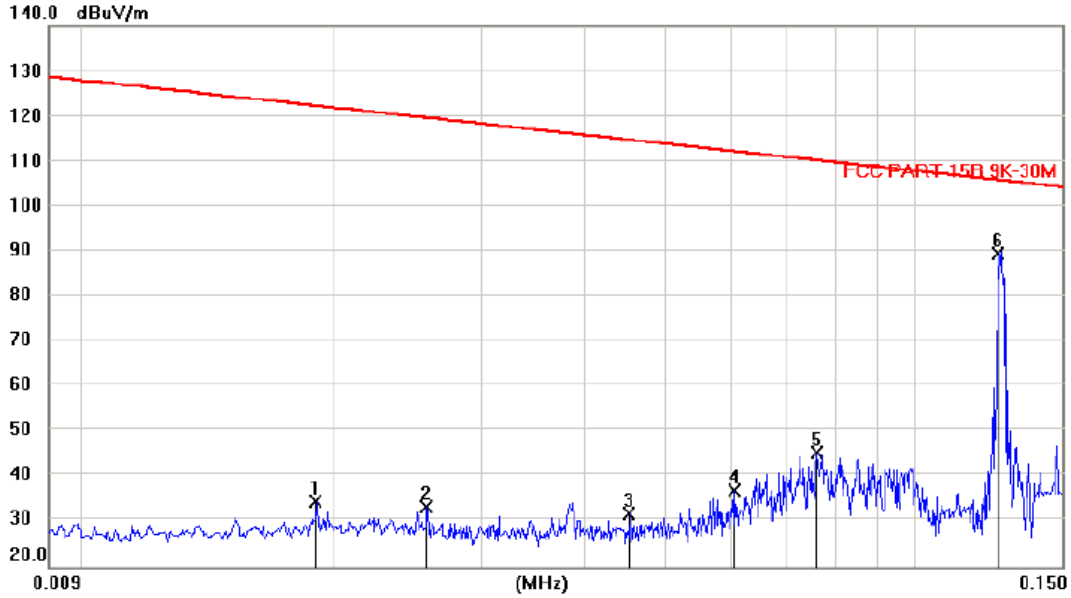
TM4/ Polarization: Coplanar



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.2500	32.96	20.06	53.02	99.83	-46.81	peak			
2		0.2960	29.09	19.99	49.08	98.36	-49.28	peak			
3		0.3250	53.72	19.95	73.67	97.55	-23.88	peak			
4		0.3800	34.10	19.87	53.97	96.20	-42.23	peak			
5		0.4380	28.53	19.79	48.32	94.97	-46.65	peak			
6		0.4641	26.92	19.75	46.67	94.47	-47.80	peak			
7	*	0.6440	32.20	19.79	51.99	71.59	-19.60	peak			
8		0.9718	25.15	19.98	45.13	67.96	-22.83	peak			
9		1.4200	12.17	20.10	32.27	64.61	-32.34	peak			
10		5.2442	5.83	21.73	27.56	70.00	-42.44	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

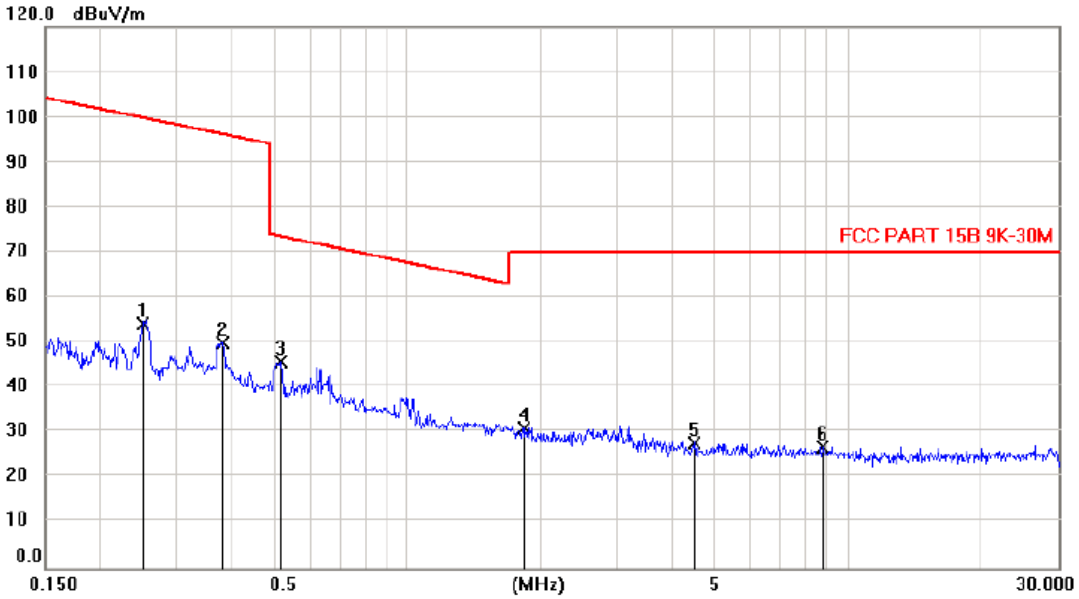
TM1 / Polarization: Coplanar



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.0189	13.16	21.27	34.43	122.1	-87.75	peak			
2		0.0257	12.30	21.10	33.40	119.5	-86.12	peak			
3		0.0451	11.69	20.17	31.86	114.6	-82.79	peak			
4		0.0604	16.76	20.06	36.82	112.1	-75.30	peak			
5		0.0758	25.23	20.11	45.34	110.1	-64.82	peak			
6	*	0.1250	69.57	19.85	89.42	105.8	-16.41	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

TM1/ Polarization: Coplanar



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.2500	33.96	20.06	54.02	99.83	-45.81	peak			
2		0.3800	30.10	19.87	49.97	96.20	-46.23	peak			
3	*	0.5151	26.11	19.71	45.82	73.56	-27.74	peak			
4		1.8385	10.97	20.21	31.18	70.00	-38.82	peak			
5		4.4855	6.58	21.32	27.90	70.00	-42.10	peak			
6		8.7538	5.09	21.82	26.91	70.00	-43.09	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

3.4 Emissions in restricted frequency bands (30MHz - 1GHz)

<table>
<tr><td>Test Requirement:</td><td>47 CFR 15.209</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

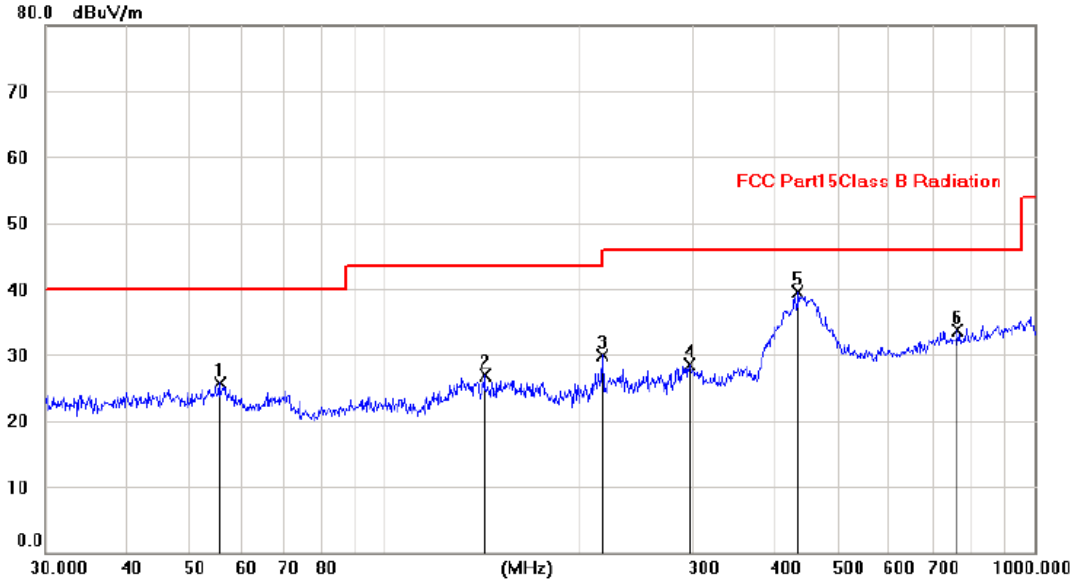
As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)and (b)of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.
</td></tr>
<tr><td>Test Method:</td><td>Radiated emissions tests</td></tr>
<tr><td>Procedure:</td><td>ANSI C63.10-2013 section 6.6.4</td></tr>
</table>

3.4.1 E.U.T. Operation:

<table>
<tr><td colspan="6">Operating Environment:</td></tr>
<tr><td>Temperature:</td><td>22.6 °C</td><td>Humidity:</td><td>52 %</td><td>Atmospheric Pressure:</td><td>102 kPa</td></tr>
<tr><td colspan="2">Pre test mode:</td><td colspan="4">TM1, TM2, TM3, TM4</td></tr>
<tr><td colspan="2">Final test mode:</td><td colspan="4">TM4</td></tr>
</table>

3.4.2 Test Result:

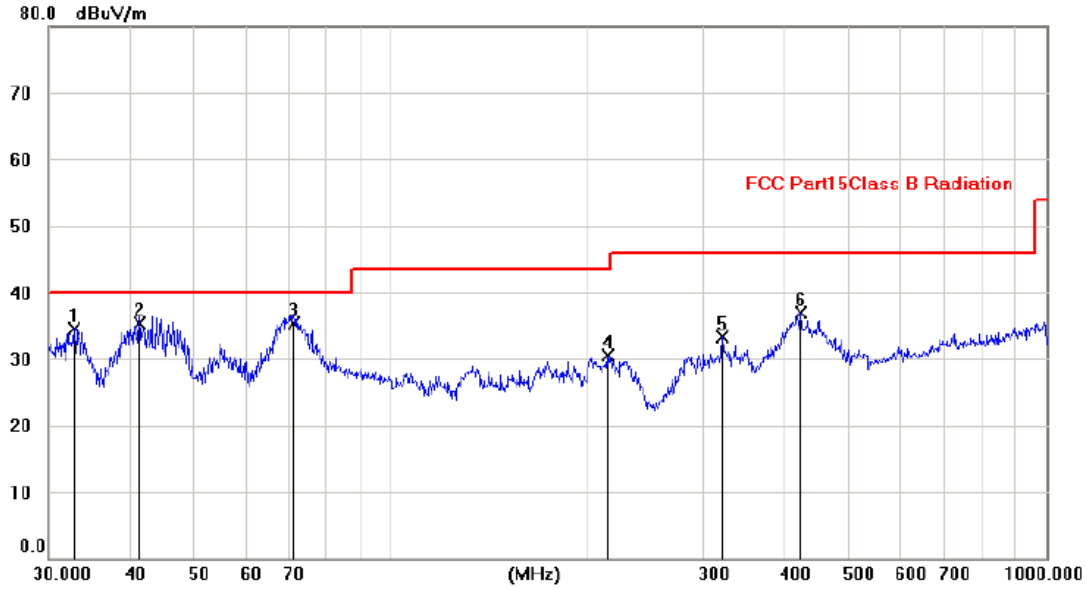
TM4 / Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		55.6679	12.05	13.57	25.62	40.00	-14.38	peak			
2		142.6075	12.46	14.51	26.97	43.50	-16.53	peak			
3		216.7068	18.36	11.52	29.88	46.00	-16.12	peak			
4		294.6298	14.46	13.98	28.44	46.00	-17.56	peak			
5	*	432.8997	22.26	17.15	39.41	46.00	-6.59	peak			
6		761.4152	11.16	22.60	33.76	46.00	-12.24	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

TM4 / Polarization: Vertical

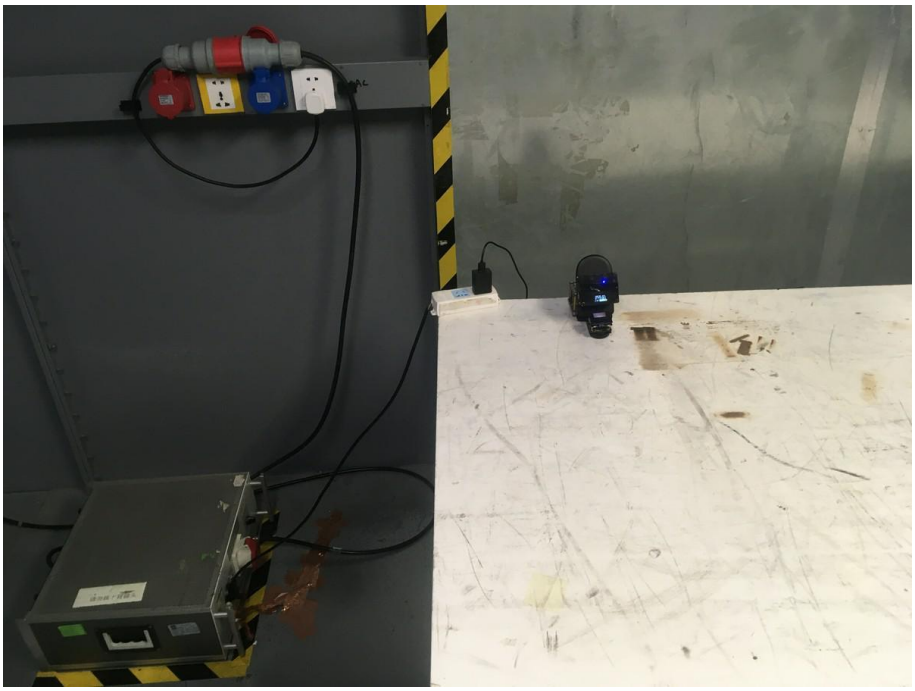


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		32.9136	20.94	13.66	34.60	40.00	-5.40	peak			
2		41.3345	20.87	14.34	35.21	40.00	-4.79	QP			
3	*	71.2633	24.21	11.11	35.32	40.00	-4.68	QP			
4		214.2387	19.22	11.35	30.57	43.50	-12.93	peak			
5		320.0492	18.66	14.63	33.29	46.00	-12.71	peak			
6		422.1564	20.04	16.80	36.84	46.00	-9.16	peak			

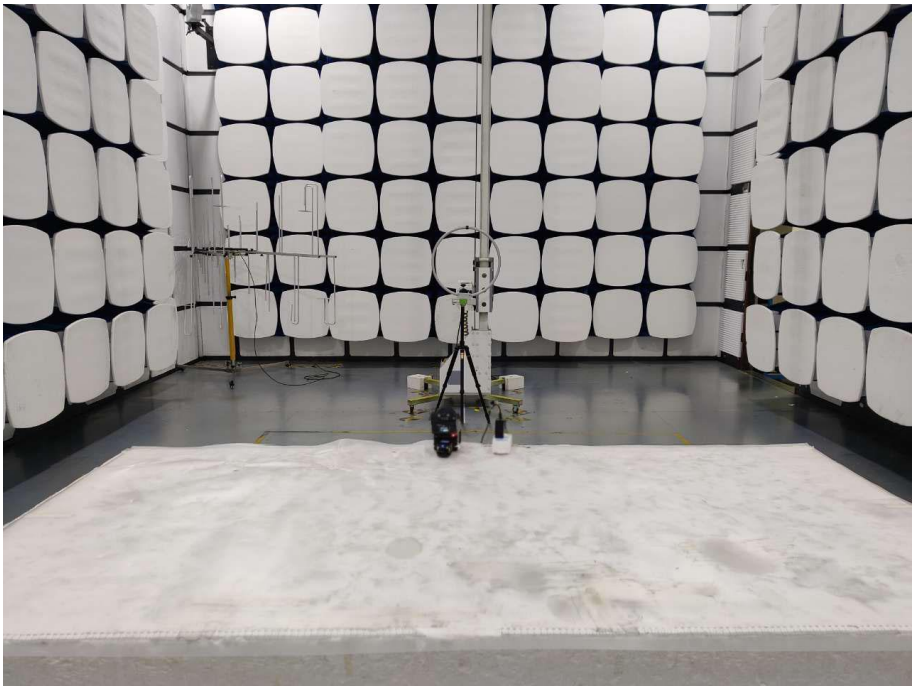
Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

4 Test Setup Photos

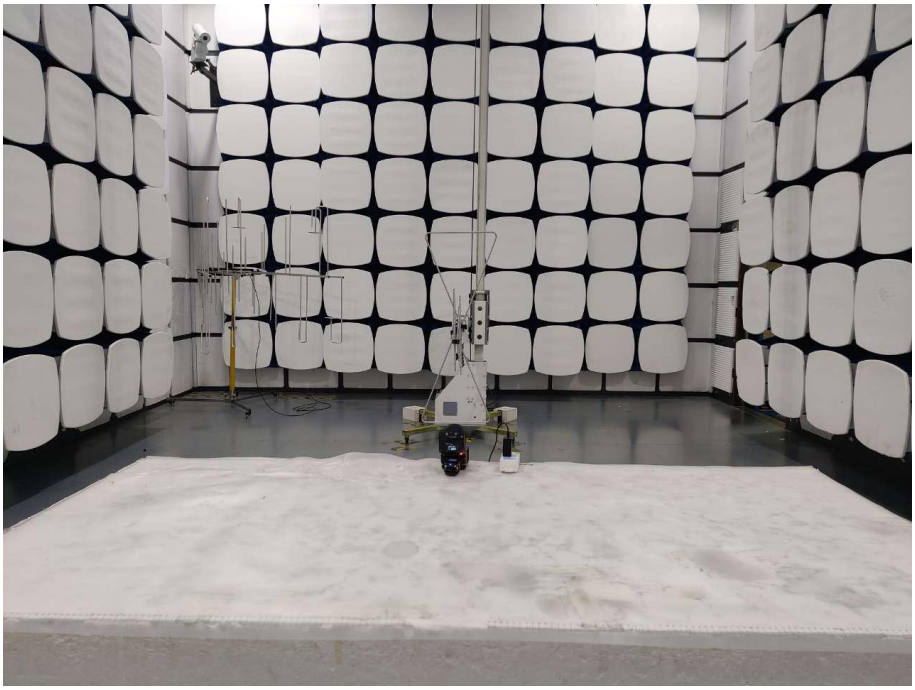
Conducted Emission at AC power line



Emissions in restricted frequency bands (below 30MHz)



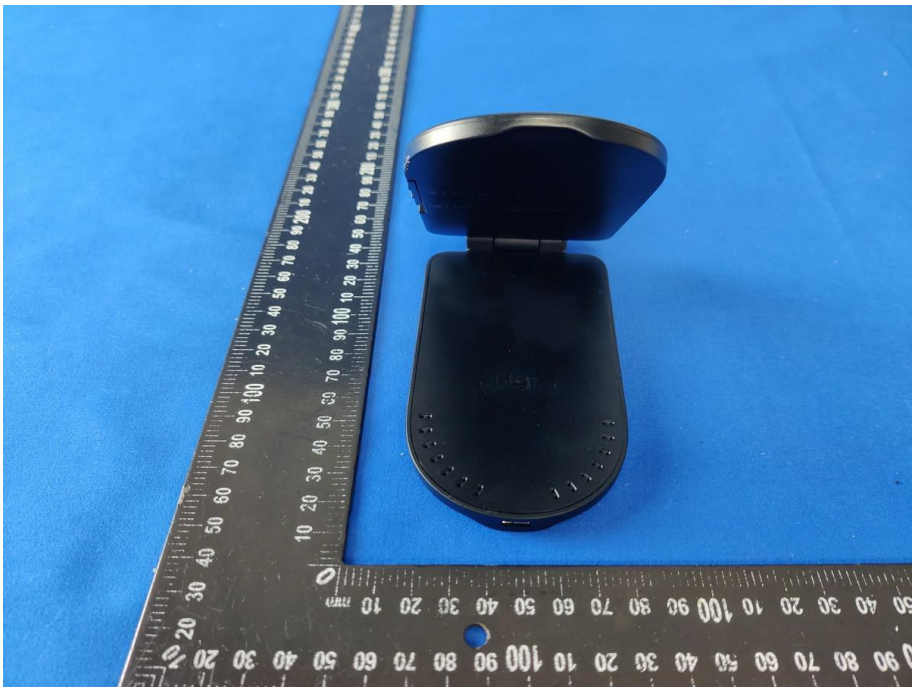
Emissions in restricted frequency bands (30MHz - 1GHz)

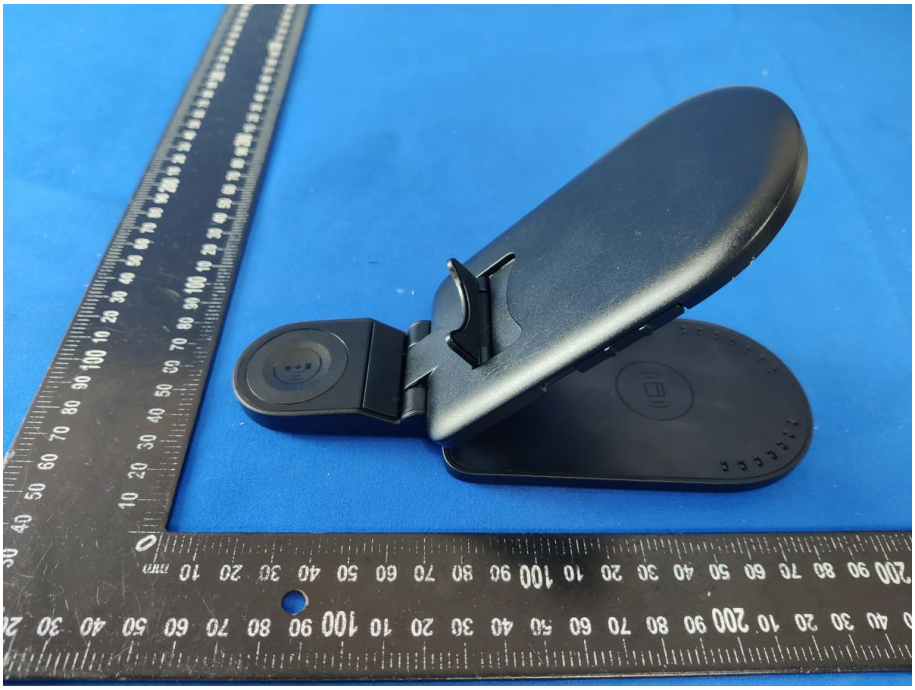


5 EUT Constructional Details (EUT Photos)

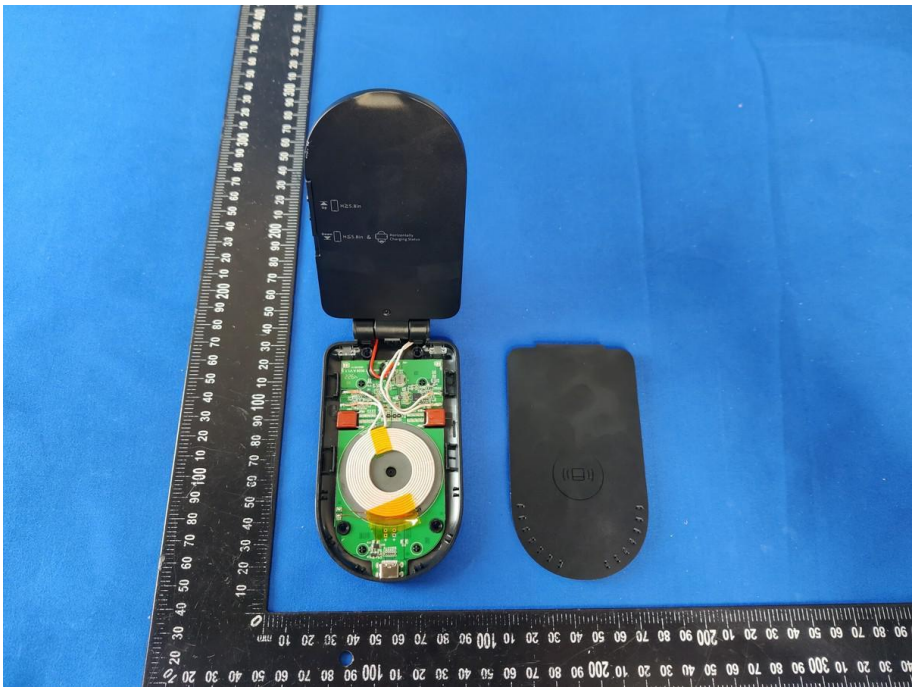
External

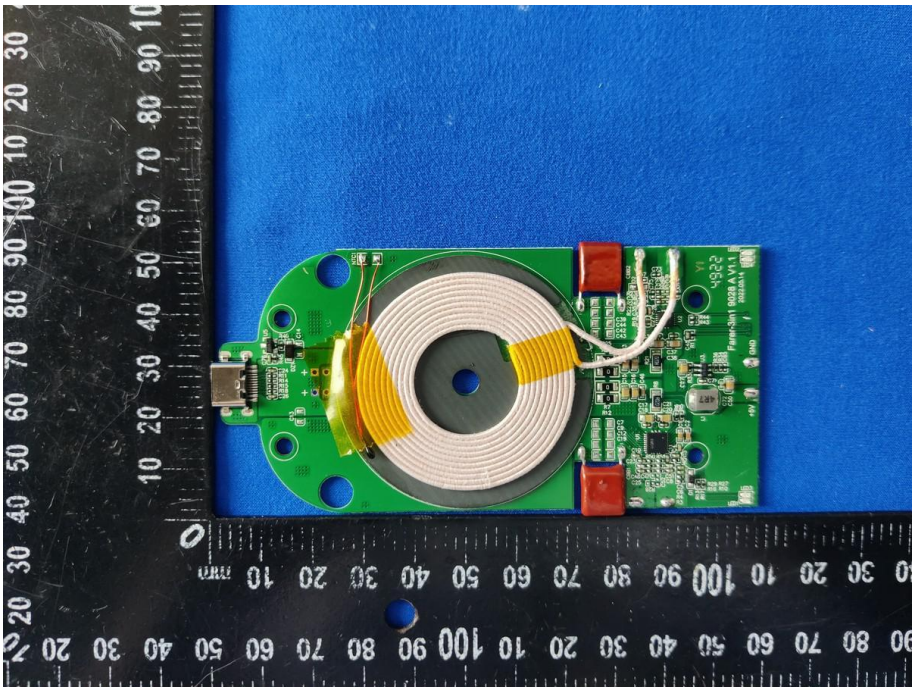

Input: 5V3A,9V2A,12V2A
Output1(For Mobile): 5W/7.5W/10W/15W(Max)
Output2(For Airpods): 5W(Max)
Output3(For iWatch): 3W(Max)
Simultaneous Output: 10W(Max)+3W(Max)+3W(Max)
Made in China

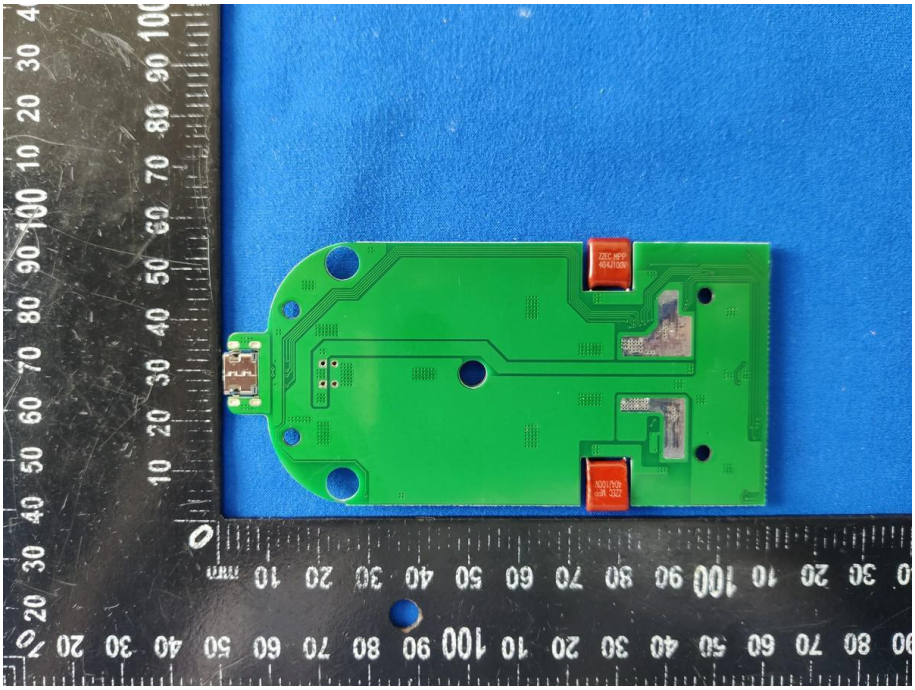


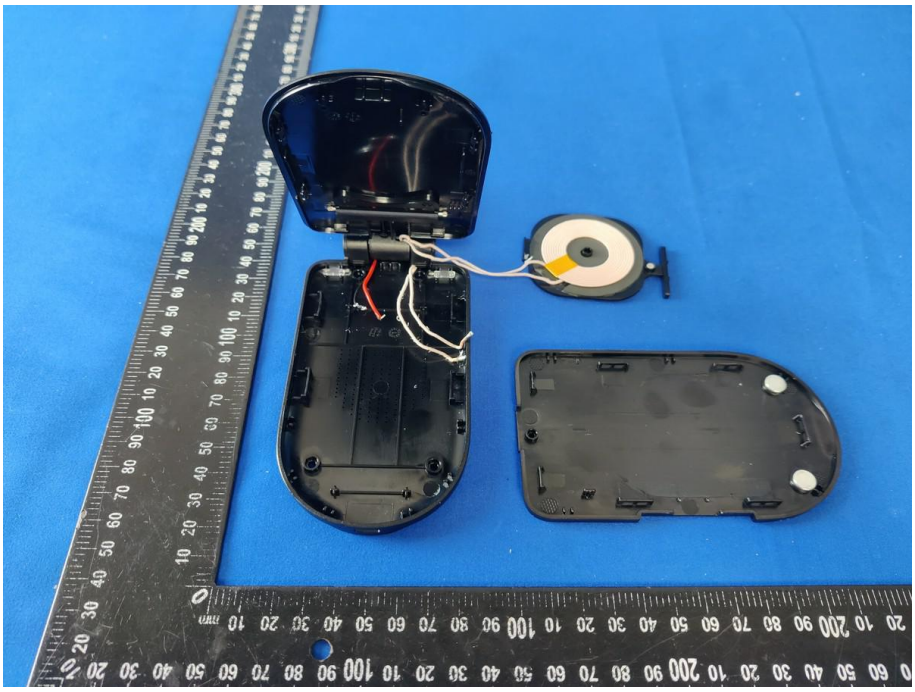


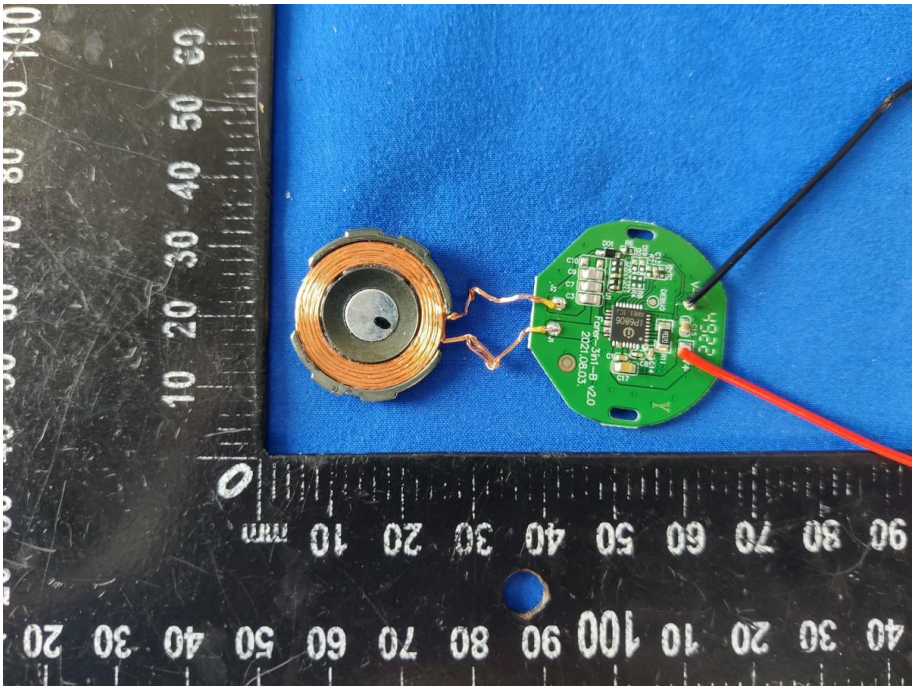
Internal

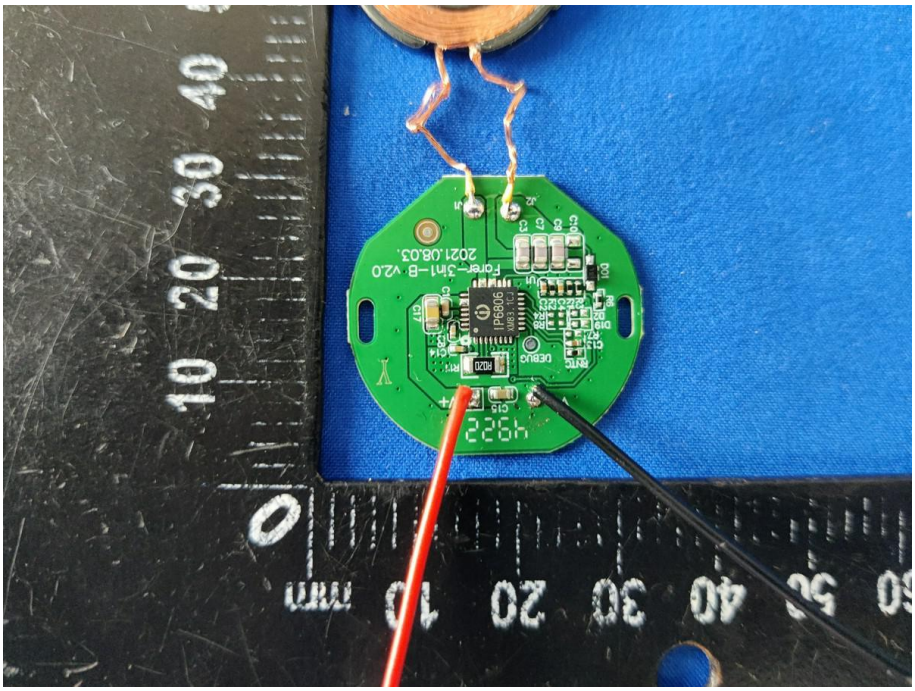


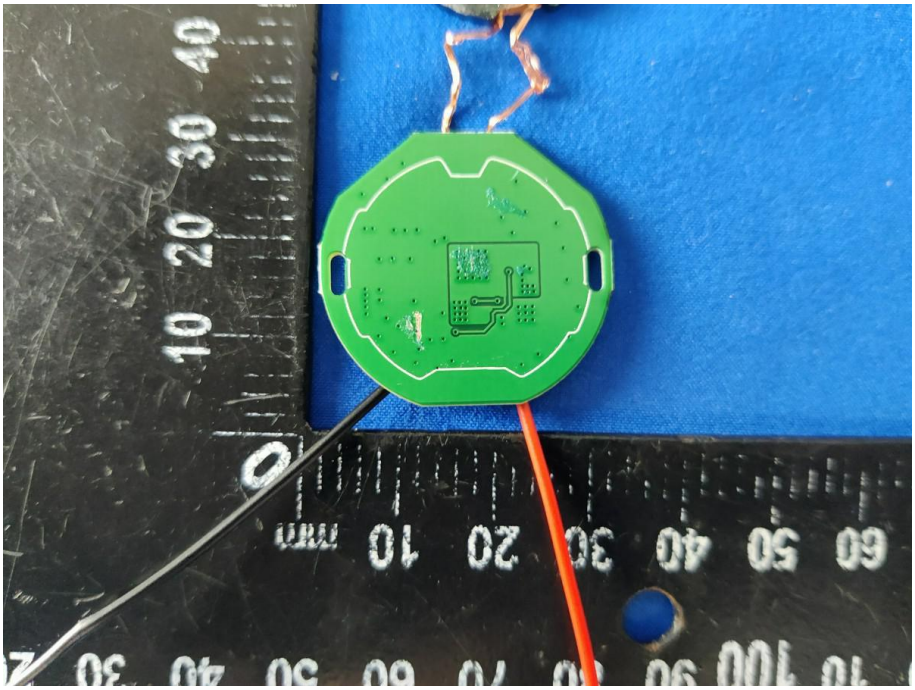












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