

TEST REPORT

Product Name : Cute meet 300
Brand Mark : eppfun
Model No. : LS003
Report Number : BLA-EMC-202104-A8202
Date of Sample Receipt : 2021/4/22
Date of Test : 2021/4/27 to 2021/5/10
Date of Issue : 2021/6/2
Test Standard : 47 CFR Part 15, Subpart B
Test Result : Pass

Prepared for:

Shenzhen Changsheng Technology Co.,Ltd.
4#405 XinggangTongchuanghui, No. 6099 Baoan Avenue, Qiaotou
Community, Fuhai Street, Bao'an District, Shenzhen, China 518103

Prepared by:

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Date:

2021/6/2



REPORT REVISE RECORD

Version No.	Date	Description
00	2021/6/2	Original

BlueAsia

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	EN 55032:2015	Class B	Pass

2 GENERAL INFORMATION

Applicant	Shenzhen Changsheng Technology Co.,Ltd.
Address	4#405 XinggangTongchuanghui, No. 6099 Baoan Avenue, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China 518103
Manufacturer	Shenzhen Changsheng Technology Co.,Ltd.
Address	4#405 XinggangTongchuanghui, No. 6099 Baoan Avenue, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China 518103
Factory	Shenzhen Changsheng Technology Co.,Ltd.
Address	4#405 XinggangTongchuanghui, No. 6099 Baoan Avenue, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China 518103
Product Name	Cute meet 300
Test Model No.	LS003

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	N/A
Software Version	N/A

4 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
Charging	Keep the battery of the EUT in charging mode
BT mode	Keep the earphone of the EUT in Playing mode
Remark: Only the data of the worst mode would be recorded in this report.	

5 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission(9kHz-30MHz)	$\pm 4.34\text{dB}$
Radiated Emission(30MHz-1000MHz)	$\pm 4.24\text{dB}$
Radiated Emission(1GHz-18GHz)	$\pm 4.68\text{dB}$
AC Power Line Conducted Emission(150kHz-30MHz)	$\pm 3.45\text{dB}$

6 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
AC Adapter	UGREEN	CD112	N/A	N/A

7 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

8 TEST INSTRUMENTS LIST

Test Equipment Of Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	2020/11/10	2023/11/9
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25
Amplifier	SKET	PA-000318G-45	N/A	2020/10/16	2021/10/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A

Test Equipment Of Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	2020/11/10	2023/11/9
Receiver	R&S	ESR7	101199	2020/10/12	2021/10/11
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25

Test Equipment Of Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Shield room	SKET	833	N/A	2020/11/25	2023/11/24
Receiver	R&S	ESPI3	101082	2020/10/12	2021/10/11
LISN	R&S	ENV216	3560.6550.15	2020/10/12	2021/10/11
LISN	AT	AT166-2	AKK1806000003	2020/10/12	2021/10/11
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A

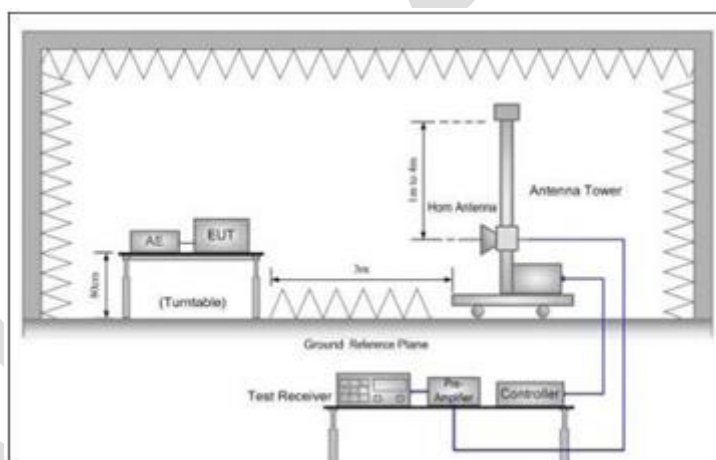
1 RADIATED EMISSIONS (ABOVE 1GHZ)

Test Standard	47 CFR Part 15, Subpart B
Test Method	ANSI C63.4:2014
Test Mode (Pre-Scan)	Charging
Test Mode (Final Test)	Charging
Tester	Jozu
Temperature	25°C
Humidity	60%

1.1 LIMITS

Frequency Range	Limit
Above 1GHz	74(dB μ V/m) peak, 54(dB μ V/m) average

1.2 BLOCK DIAGRAM OF TEST SETUP



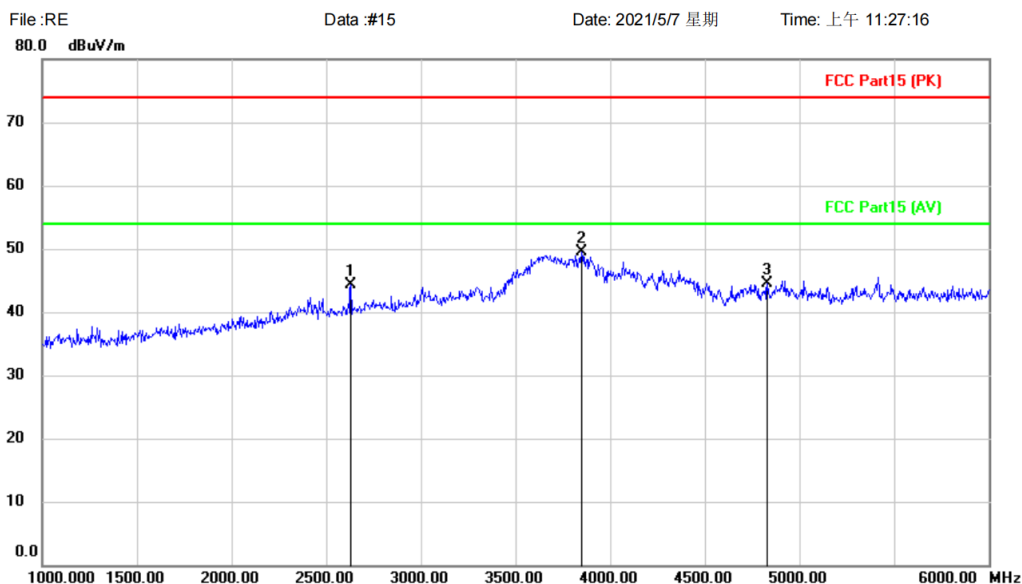
1.3 PROCEDURE

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

1.4 TEST DATA

[TestMode: Charging]; [Polarity: Vertical]

Radiated Emission Measurement



Site: Limit: FCC Part15 (PK) EUT: Cute meet300 M/N: LS003 Mode: Charging mode Note:

Polarization: **Vertical** Temperature: Power: Humidity: % Distance: 3m

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2630.000	45.24	-0.96	44.28	74.00	-29.72	peak		
2	*	3850.000	42.39	7.03	49.42	74.00	-24.58	peak		
3		4830.000	40.87	3.59	44.46	74.00	-29.54	peak		

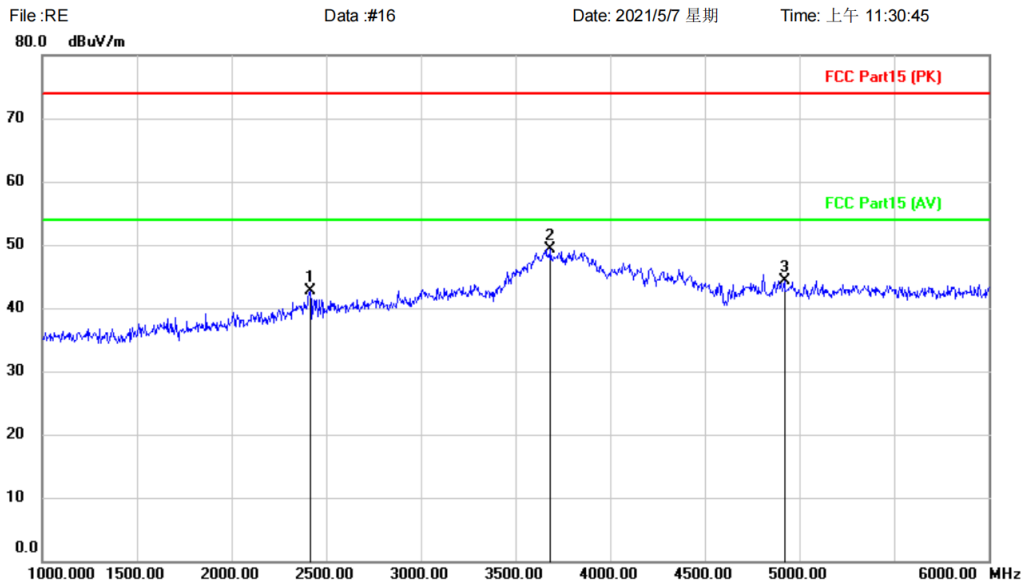
*:Maximum data x:Over limit !:over margin

<Reference Only

Test Result: Pass

[TestMode: Charging]; [Polarity: Horizontal]

Radiated Emission Measurement



Site
Limit: FCC Part15 (PK)
EUT: Cute meet300
M/N: LS003
Mode: Charging mode
Note:

Polarization: **Horizontal**
Power:
Distance: 3m

Temperature:
Humidity: %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2415.000	43.68	-0.99	42.69	74.00	-31.31	peak		
2	*	3685.000	41.65	7.72	49.37	74.00	-24.63	peak		
3		4920.000	40.83	3.43	44.26	74.00	-29.74	peak		

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

〈Reference Only

Test Result: Pass

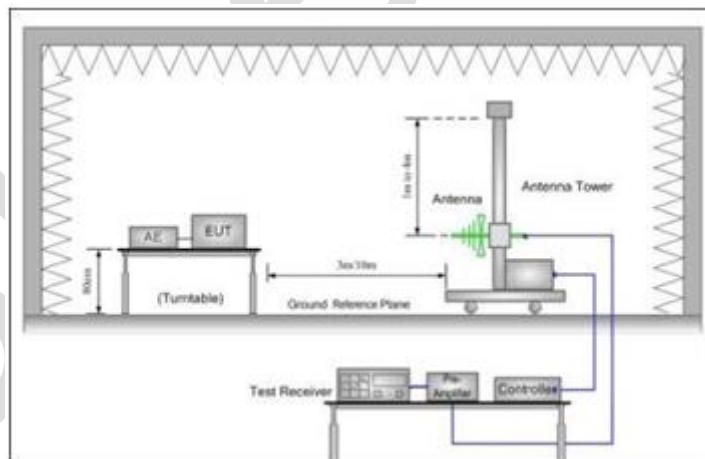
2 RADIATED EMISSIONS (30MHZ-1GHZ)

Test Standard	47 CFR Part 15, Subpart B
Test Method	ANSI C63.4:2014
Test Mode (Pre-Scan)	Charging
Test Mode (Final Test)	Charging
Tester	Jozu
Temperature	25℃
Humidity	60%

2.1 LIMITS

Frequency Range	Limit
30MHz -88MHz	40.0(dB μ V/m) quasi-peak
88MHz-216MHz	43.5(dB μ V/m) quasi-peak
216MHz-960MHz	46.0(dB μ V/m) quasi-peak
960MHz-1000MHz	54.0(dB μ V/m) quasi-peak

2.2 BLOCK DIAGRAM OF TEST SETUP



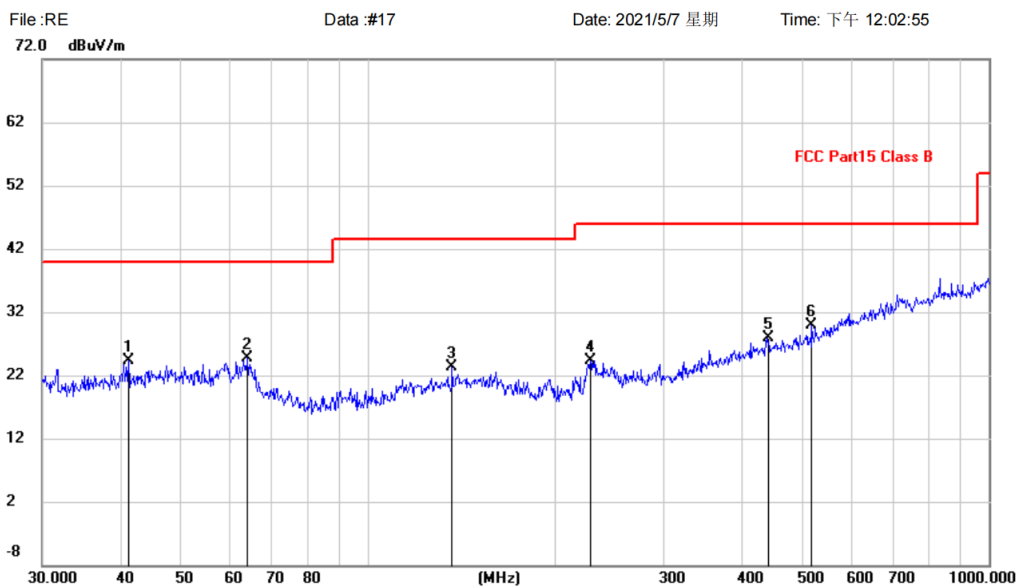
2.3 PROCEDURE

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

2.4 TEST DATA

[TestMode: Charging]; [Polarity: Horizontal]

Radiated Emission Measurement



Site: Limit: FCC Part15 Class B
EUT: Cute meet300
M/N: LS003
Mode: Charging mode
Note:

Polarization: **Horizontal**
Power:
Distance: 3m

Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		41.2765	-0.05	24.28	24.23	40.00	-15.77	QP		
2	*	64.2074	2.20	22.41	24.61	40.00	-15.39	QP		
3		136.9391	0.15	23.09	23.24	43.50	-20.26	QP		
4		228.4904	2.13	22.16	24.29	46.00	-21.71	QP		
5		440.1963	-0.19	28.11	27.92	46.00	-18.08	QP		
6		519.0649	0.25	29.63	29.88	46.00	-16.12	QP		

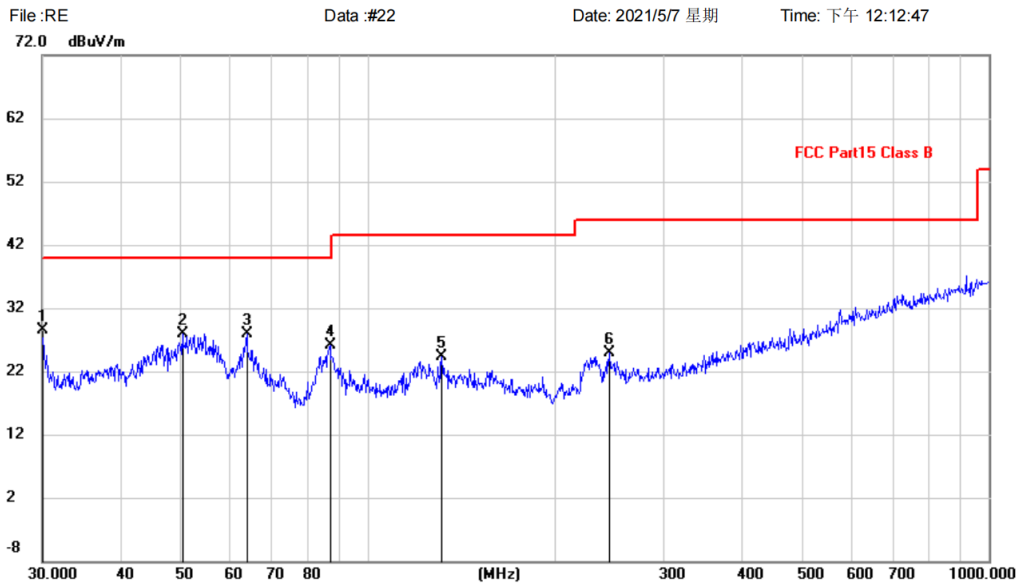
*:Maximum data x:Over limit !:over margin

<Reference Only

Test Result: Pass

[TestMode: Charging]; [Polarity: Vertical]

Radiated Emission Measurement



Site
Limit: FCC Part15 Class B
EUT: Cute meet300
M/N: LS003
Mode: Charging mode
Note:

Polarization: **Vertical**
Power:
Distance: 3m

Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	30.0000	6.43	22.08	28.51	40.00	-11.49	QP		
2		50.4089	3.46	24.43	27.89	40.00	-12.11	QP		
3		63.9828	5.48	22.46	27.94	40.00	-12.06	QP		
4		87.1117	6.67	19.34	26.01	40.00	-13.99	QP		
5		131.7577	1.44	22.92	24.36	43.50	-19.14	QP		
6		245.0900	1.82	23.09	24.91	46.00	-21.09	QP		

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

〈Reference Only

Test Result: Pass

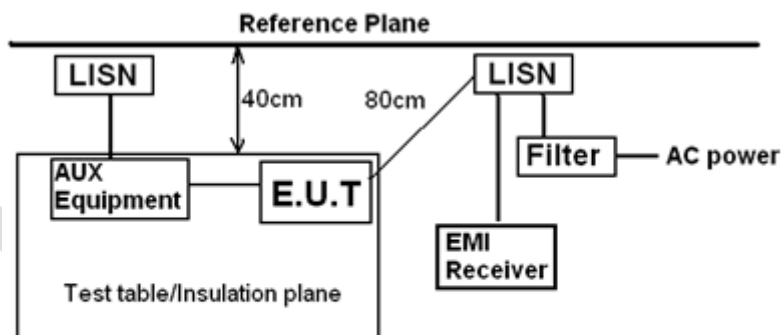
3 CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHZ-30MHZ)

Test Standard	47 CFR Part 15, Subpart B
Test Method	EN 55032:2015
Test Mode (Pre-Scan)	Charging
Test Mode (Final Test)	Charging
Tester	Jozu
Temperature	25°C
Humidity	60%

3.1 LIMITS

Frequency Range	Limit
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average

3.2 BLOCK DIAGRAM OF TEST SETUP



Remark:
E.U.T: Equipment Under Test
LISN: Line Impedance Stabilization Network
Test table height=0.8m

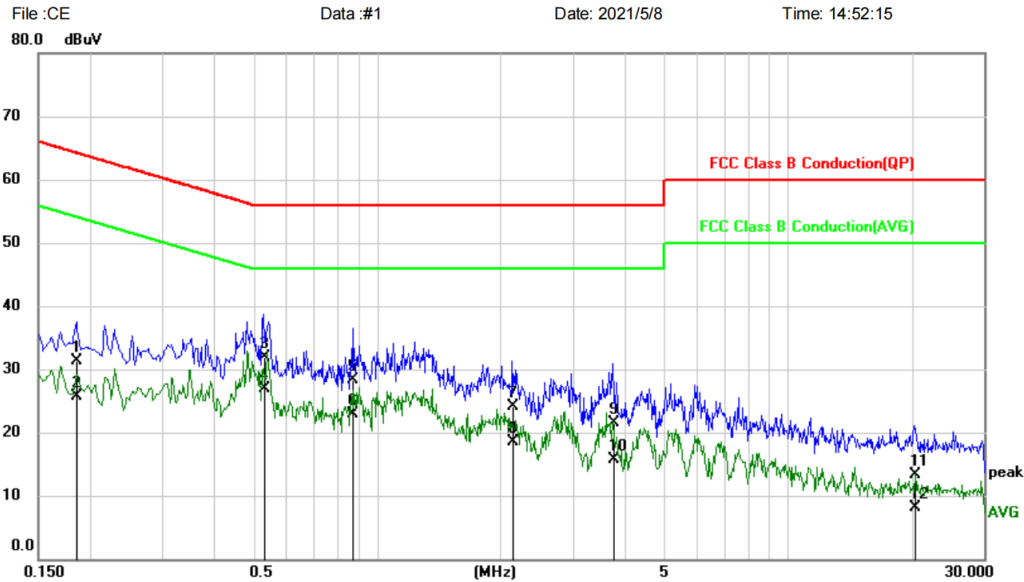
3.3 PROCEDURE

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

3.4 TEST DATA

[TestMode: Charging]; [Line: Neutral][Power:120V/60Hz]

Conducted Emission Measurement



Site: Phase: **N** Temperature:
Limit: FCC Class B Conduction(QP) Power:
EUT: Cute meet 300 Humidity: %
M/N: LS003
Mode: charging mode
Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1860	21.57	9.74	31.31	64.21	-32.90	QP	
2	0.1860	16.01	9.74	25.75	54.21	-28.46	AVG	
3	0.5299	22.13	9.79	31.92	56.00	-24.08	QP	
4 *	0.5299	17.07	9.79	26.86	46.00	-19.14	AVG	
5	0.8740	18.39	9.83	28.22	56.00	-27.78	QP	
6	0.8740	13.07	9.83	22.90	46.00	-23.10	AVG	
7	2.1340	14.25	9.86	24.11	56.00	-31.89	QP	
8	2.1340	8.62	9.86	18.48	46.00	-27.52	AVG	
9	3.7580	11.66	9.90	21.56	56.00	-34.44	QP	
10	3.7580	5.83	9.90	15.73	46.00	-30.27	AVG	
11	20.2820	2.79	10.42	13.21	60.00	-46.79	QP	
12	20.2820	-2.37	10.42	8.05	50.00	-41.95	AVG	

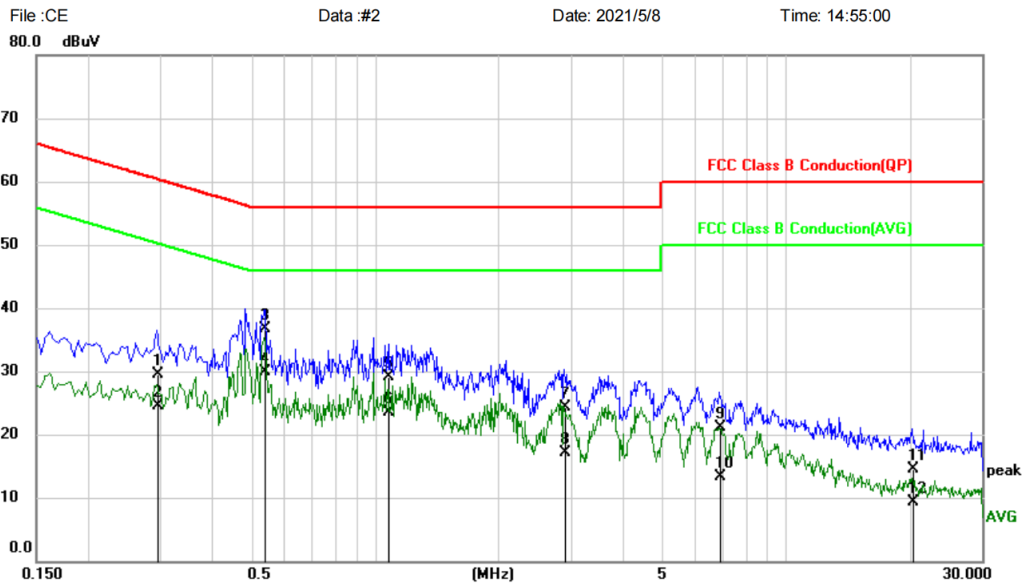
*:Maximum data x:Over limit !:over margin

⟨Reference Only

Test Result: Pass

[TestMode: Charging]; [Line: Line] [Power:120V/60Hz]

Conducted Emission Measurement



Site: Phase: **L1** Temperature:
Limit: FCC Class B Conduction(QP) Power: Humidity: %
EUT: Cute meet 300
M/N: LS003
Mode: charging mode
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2940	19.74	9.85	29.59	60.41	-30.82	QP	
2		0.2940	14.67	9.85	24.52	50.41	-25.89	AVG	
3		0.5380	26.91	9.87	36.78	56.00	-19.22	QP	
4	*	0.5380	20.08	9.87	29.95	46.00	-16.05	AVG	
5		1.0780	19.09	9.92	29.01	56.00	-26.99	QP	
6		1.0780	13.51	9.92	23.43	46.00	-22.57	AVG	
7		2.8940	14.37	9.97	24.34	56.00	-31.66	QP	
8		2.8940	7.09	9.97	17.06	46.00	-28.94	AVG	
9		6.8820	10.95	10.09	21.04	60.00	-38.96	QP	
10		6.8820	3.25	10.09	13.34	50.00	-36.66	AVG	
11		20.3180	4.15	10.42	14.57	60.00	-45.43	QP	
12		20.3180	-1.06	10.42	9.36	50.00	-40.64	AVG	

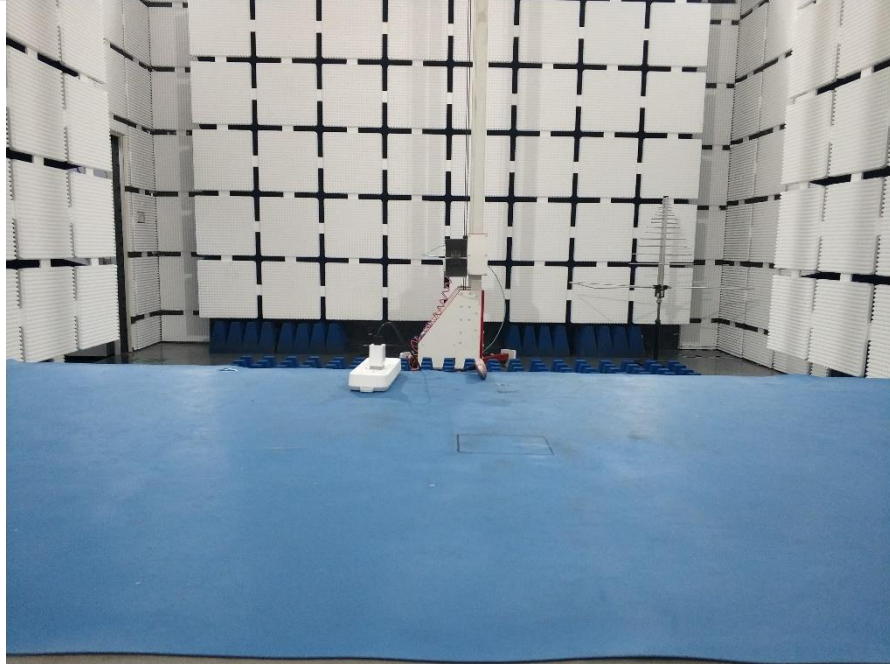
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⟨Reference Only

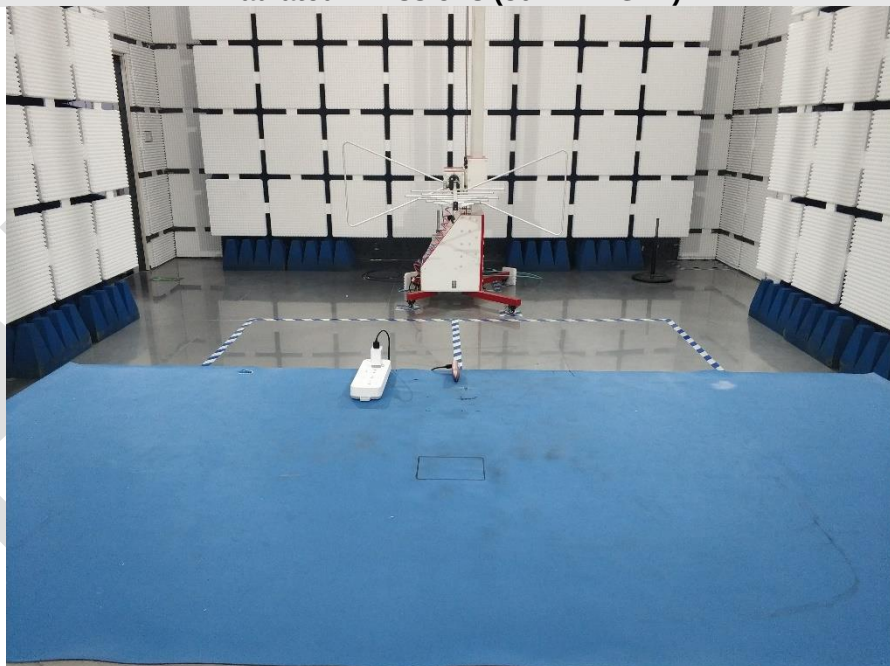
Test Result: Pass

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

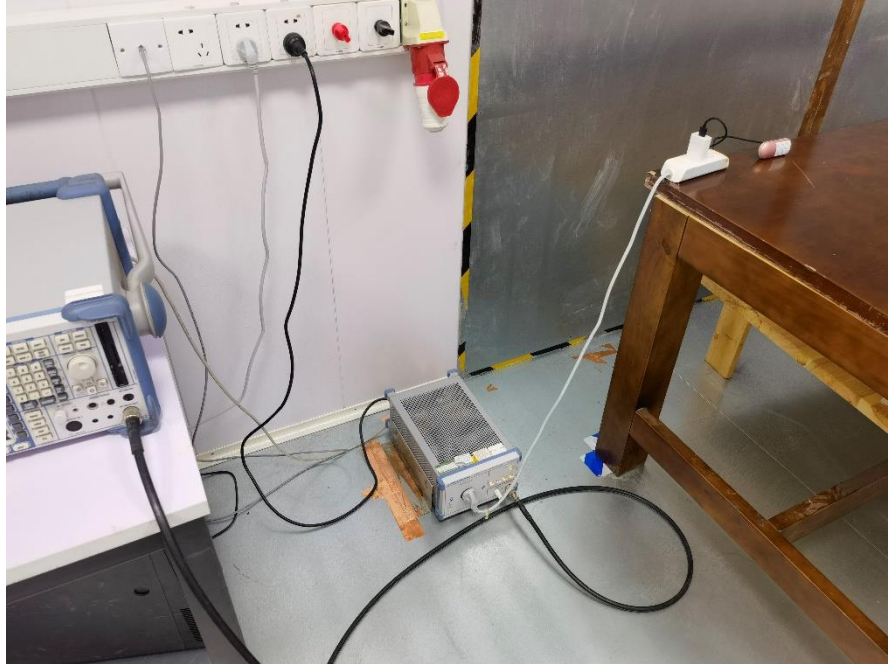
Radiated Emissions (above 1GHz)



Radiated Emissions (30MHz-1GHz)



Conducted Emissions at Mains Terminals (150kHz-30MHz)

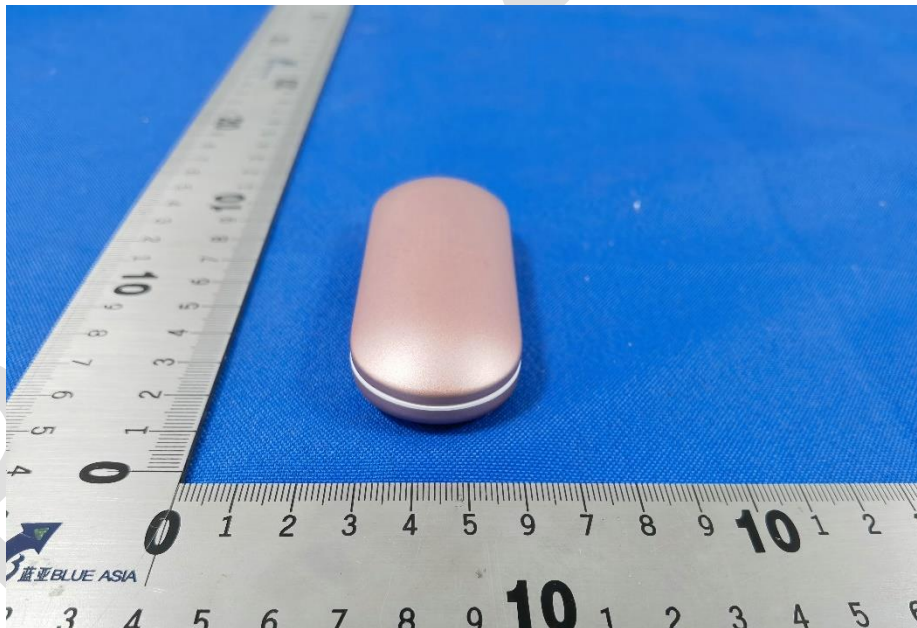


APPENDIX B: PHOTOGRAPHS OF EUT

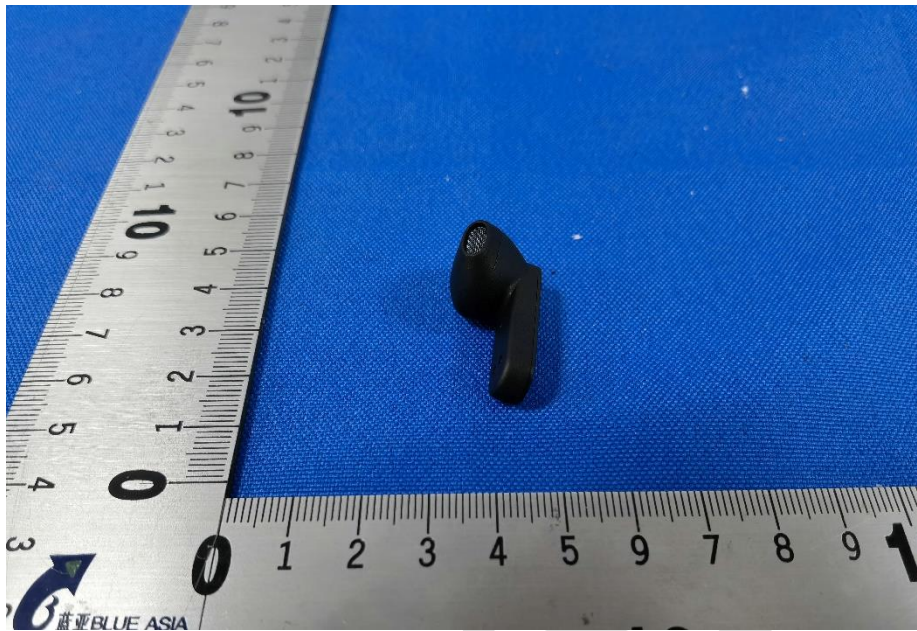


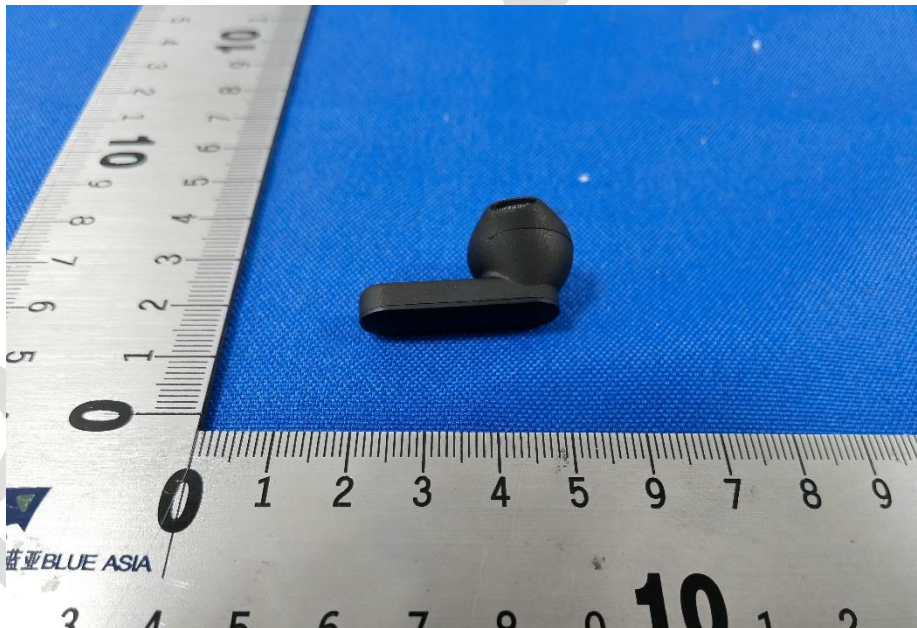




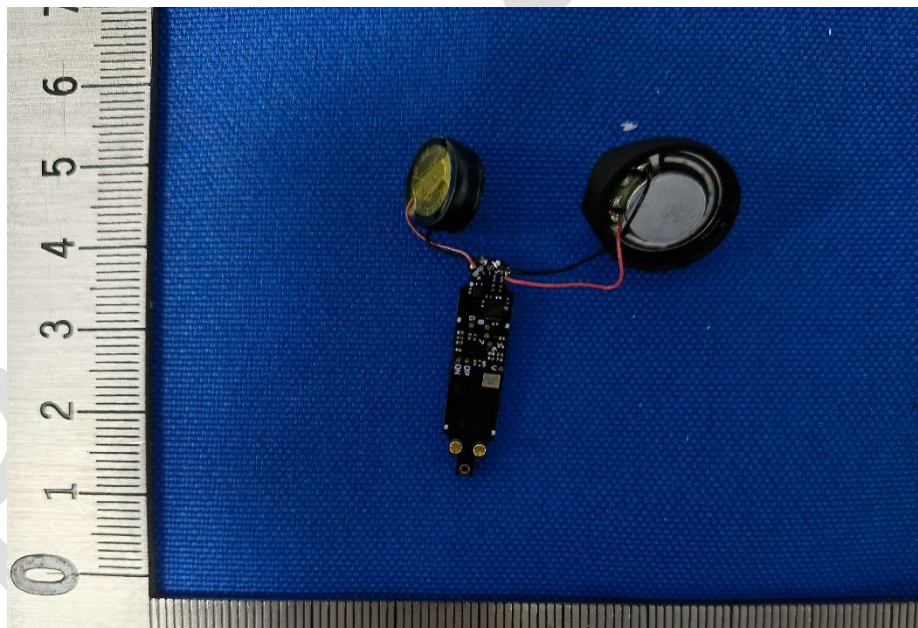
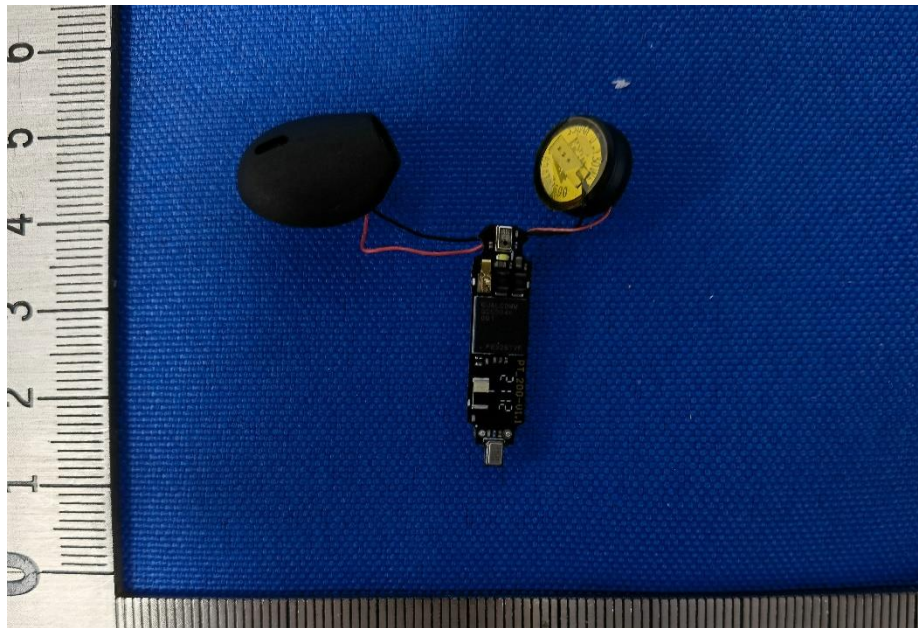


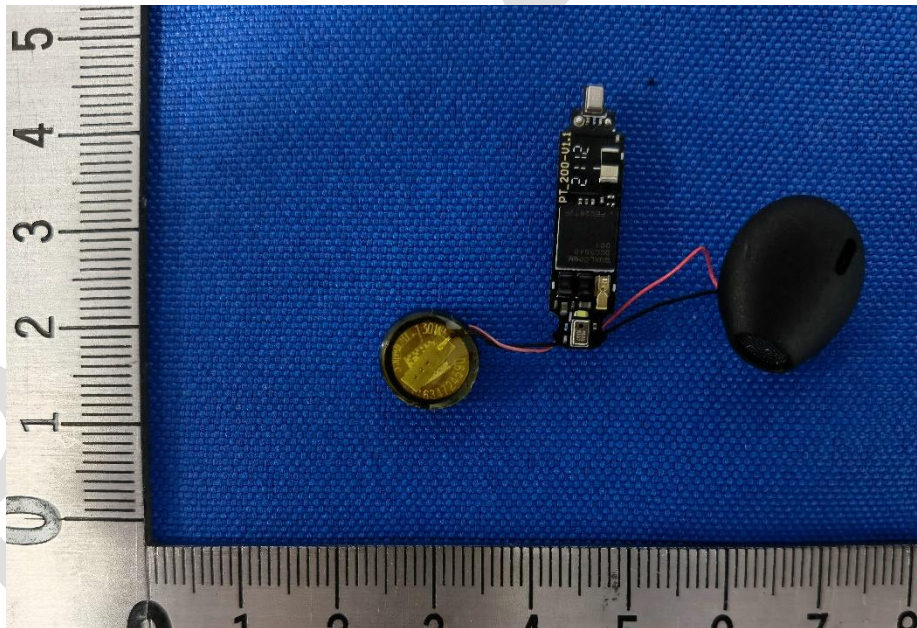
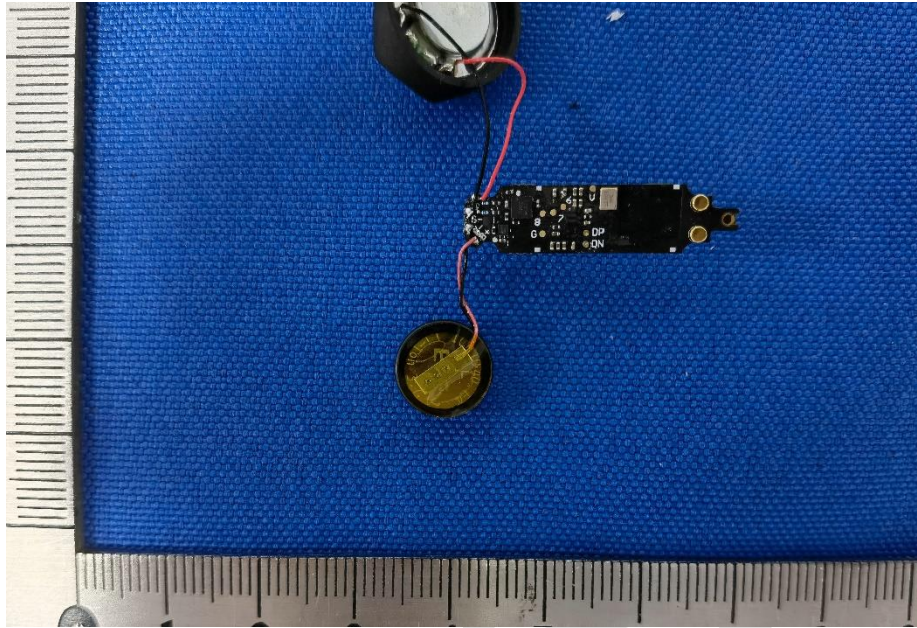


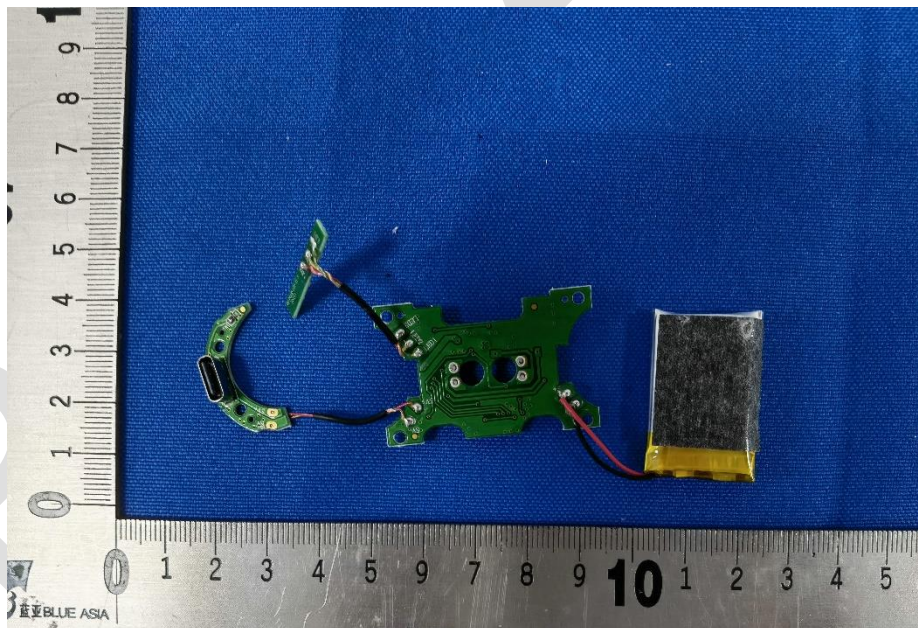


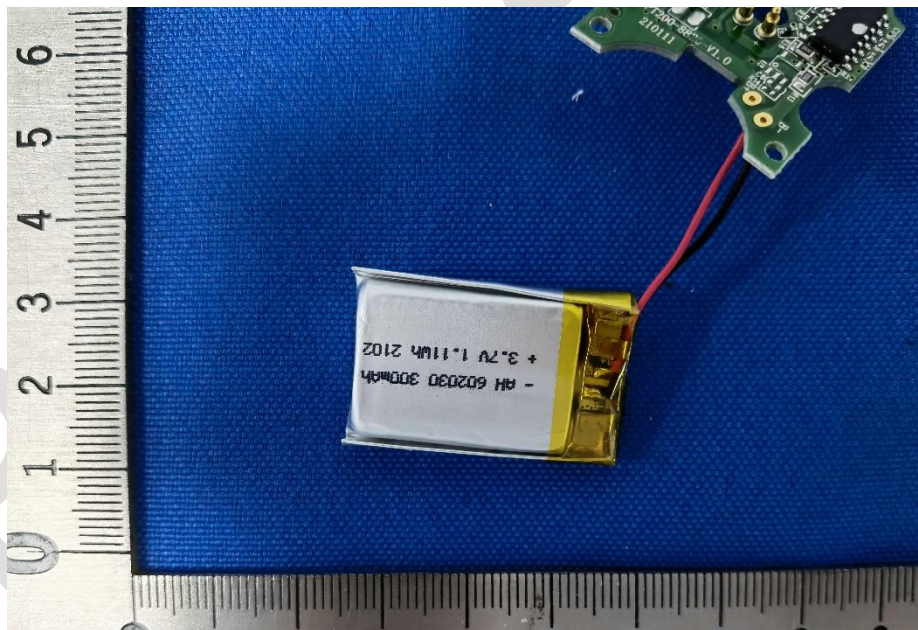
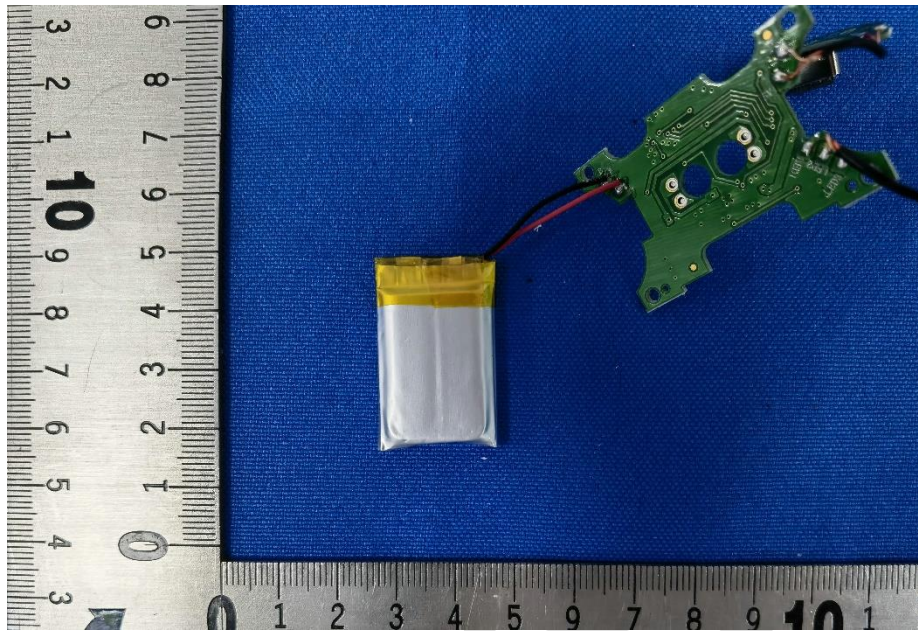


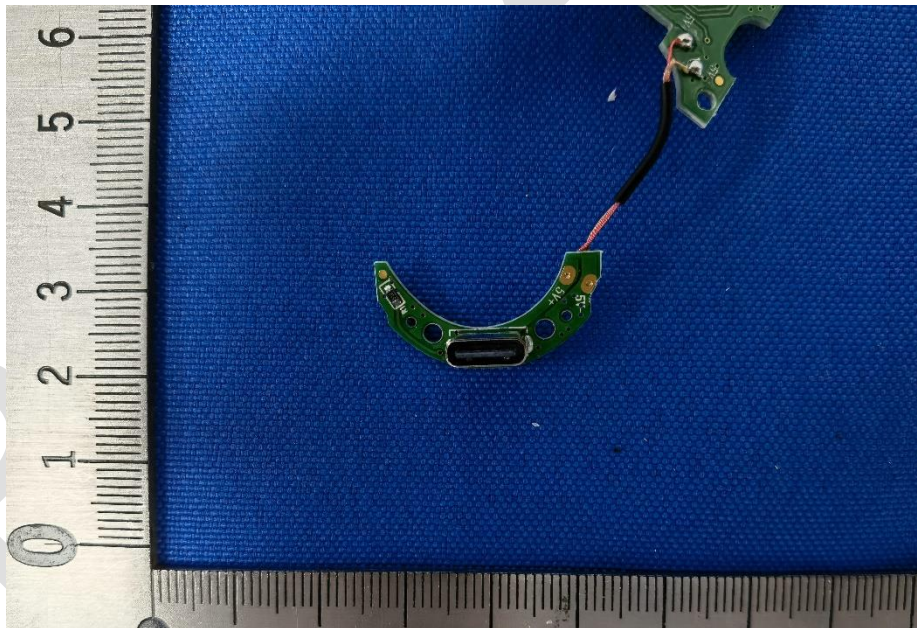


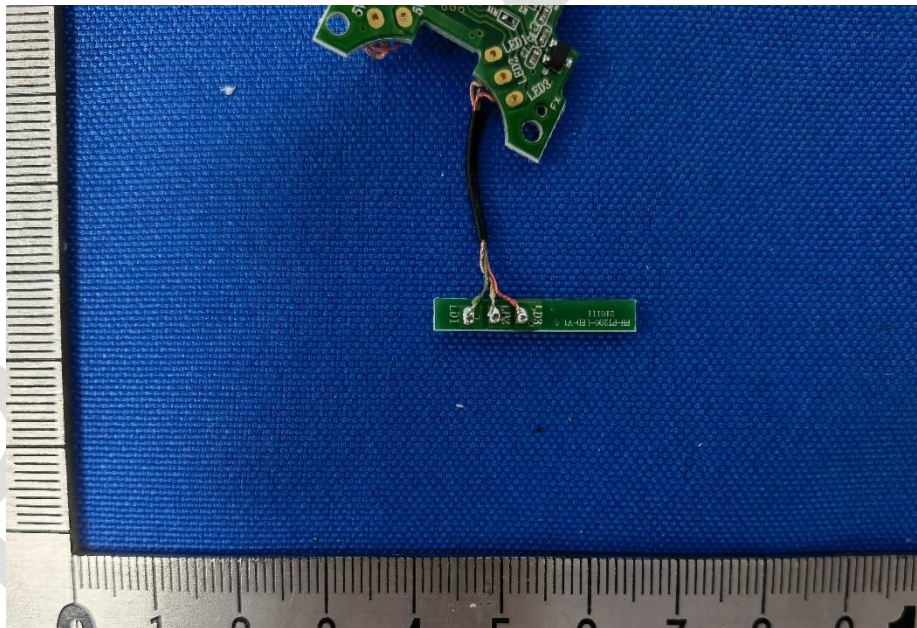
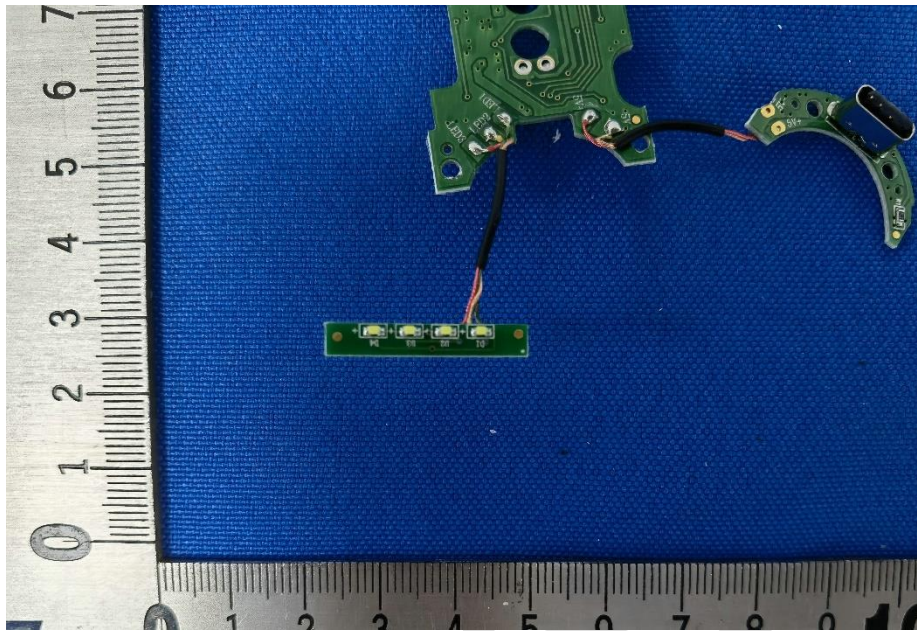


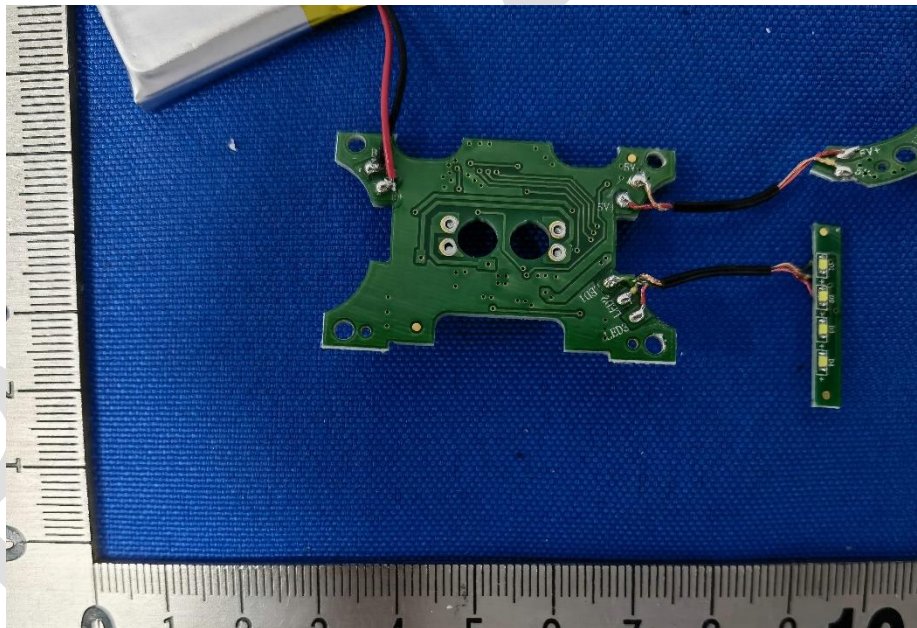
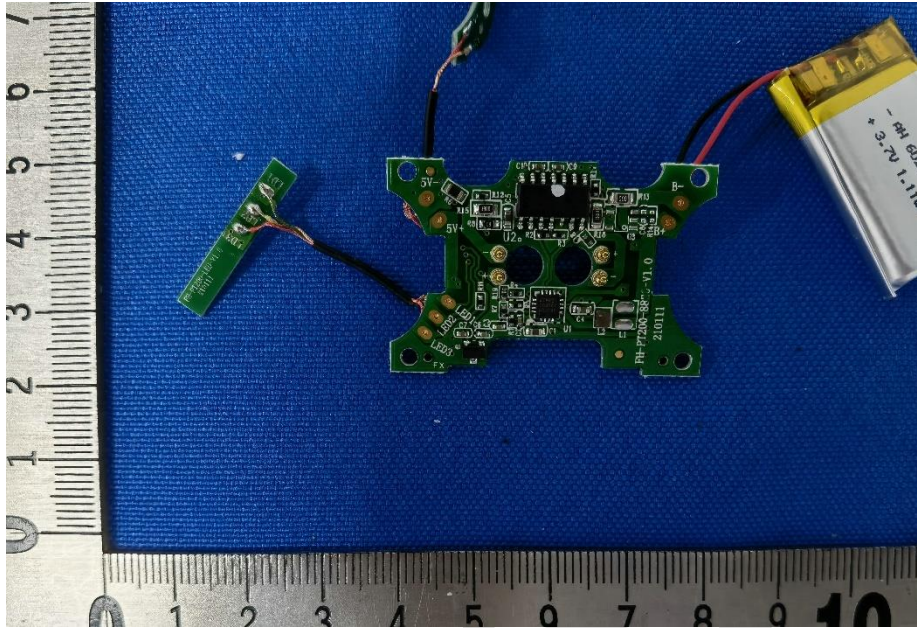












----END OF REPORT----

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