

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

11.4. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "----" means Peak detection; "----" means Average detection.

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room

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Test Date : 2021-06-29

Tested By : Bairong

EUT : True Wireless Earbuds

Model Number : TW-E5B

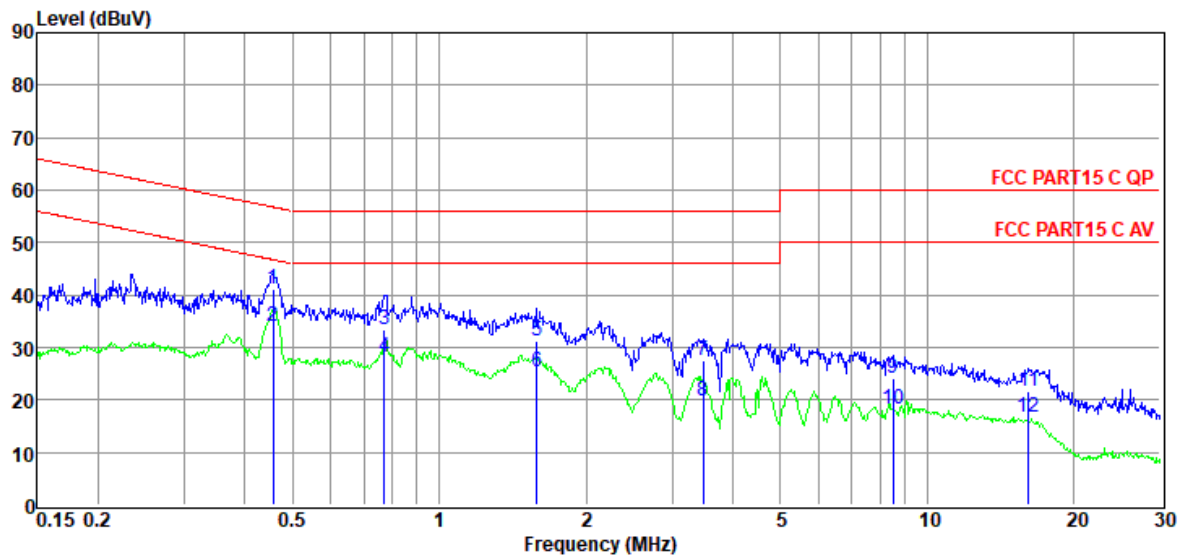
Power Supply : AC 120V 60Hz

Test Mode : Charging mode

Condition : Temp:24.5°C,Humi:55.5%,Press:101.4kPa

LISN : 2020 ENV 216 2#/LINE

Memo :



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV)	(dBuV)	(dB)		
1	0.46	21.50	9.45	0.02	10.01	40.98	56.76	-15.78	QP	LINE
2	0.46	14.39	9.45	0.02	10.01	33.87	46.76	-12.89	Average	LINE
3	0.77	13.91	9.44	0.03	10.01	33.39	56.00	-22.61	QP	LINE
4	0.77	8.75	9.44	0.03	10.01	28.23	46.00	-17.77	Average	LINE
5	1.59	11.77	9.43	0.04	10.01	31.25	56.00	-24.75	QP	LINE
6	1.59	5.92	9.43	0.04	10.01	25.40	46.00	-20.60	Average	LINE
7	3.47	8.11	9.46	0.07	10.01	27.65	56.00	-28.35	QP	LINE
8	3.47	0.38	9.46	0.07	10.01	19.92	46.00	-26.08	Average	LINE
9	8.50	4.44	9.61	0.10	10.01	24.16	60.00	-35.84	QP	LINE
10	8.50	-1.37	9.61	0.10	10.01	18.35	50.00	-31.65	Average	LINE
11	16.14	1.97	9.55	0.14	10.02	21.68	60.00	-38.32	QP	LINE
12	16.14	-2.93	9.55	0.14	10.02	16.78	50.00	-33.22	Average	LINE

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

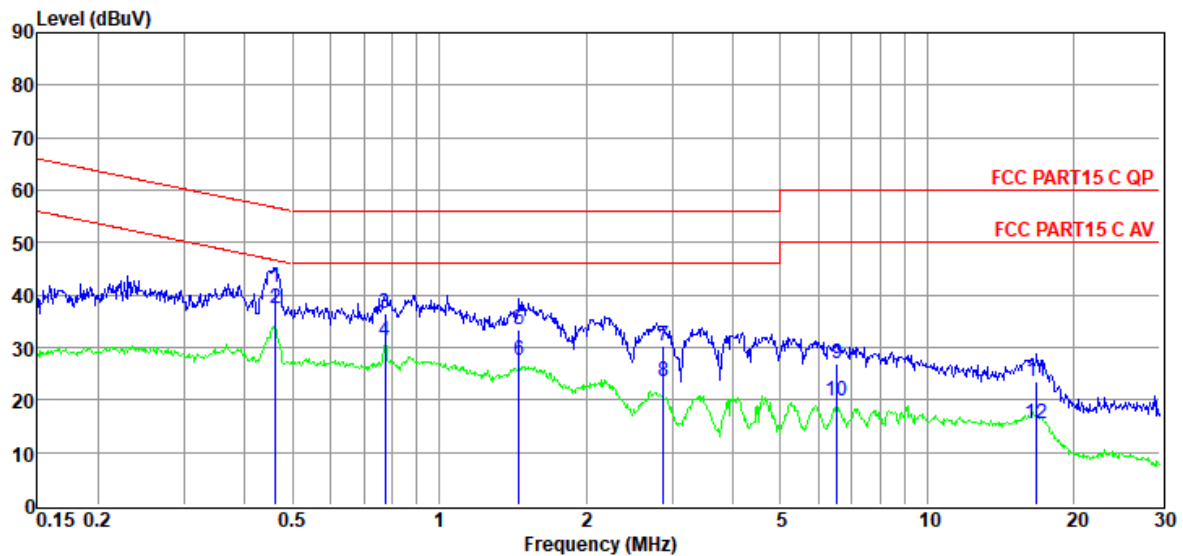
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room
Test Date : 2021-06-29
EUT : True Wireless Earbuds
Power Supply : AC 120V 60Hz
Condition : Temp:24.5°C,Humi:55.5%,Press:101.4kPa
Memo :

D:\2021 report data\Q21031818-4E\CE.EM6
Tested By : Bairong
Model Number : TW-E5B
Test Mode : Charging mode
LISN : 2020 ENV 216 2#/NEUTRAL



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.46	22.16	9.40	0.02	10.01	41.59	56.67	-15.08	QP	NEUTRAL
2	0.46	18.02	9.40	0.02	10.01	37.45	46.67	-9.22	Average	NEUTRAL
3	0.78	17.16	9.40	0.03	10.01	36.60	56.00	-19.40	QP	NEUTRAL
4	0.78	11.90	9.40	0.03	10.01	31.34	46.00	-14.66	Average	NEUTRAL
5	1.46	13.91	9.41	0.04	10.01	33.37	56.00	-22.63	QP	NEUTRAL
6	1.46	8.18	9.41	0.04	10.01	27.64	46.00	-18.36	Average	NEUTRAL
7	2.88	10.68	9.43	0.06	10.01	30.18	56.00	-25.82	QP	NEUTRAL
8	2.88	4.06	9.43	0.06	10.01	23.56	46.00	-22.44	Average	NEUTRAL
9	6.52	7.14	9.52	0.09	10.01	26.76	60.00	-33.24	QP	NEUTRAL
10	6.52	0.08	9.52	0.09	10.01	19.70	50.00	-30.30	Average	NEUTRAL
11	16.75	3.79	9.60	0.14	10.02	23.55	60.00	-36.45	QP	NEUTRAL
12	16.75	-4.36	9.60	0.14	10.02	15.40	50.00	-34.60	Average	NEUTRAL

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

12. Antenna Requirements

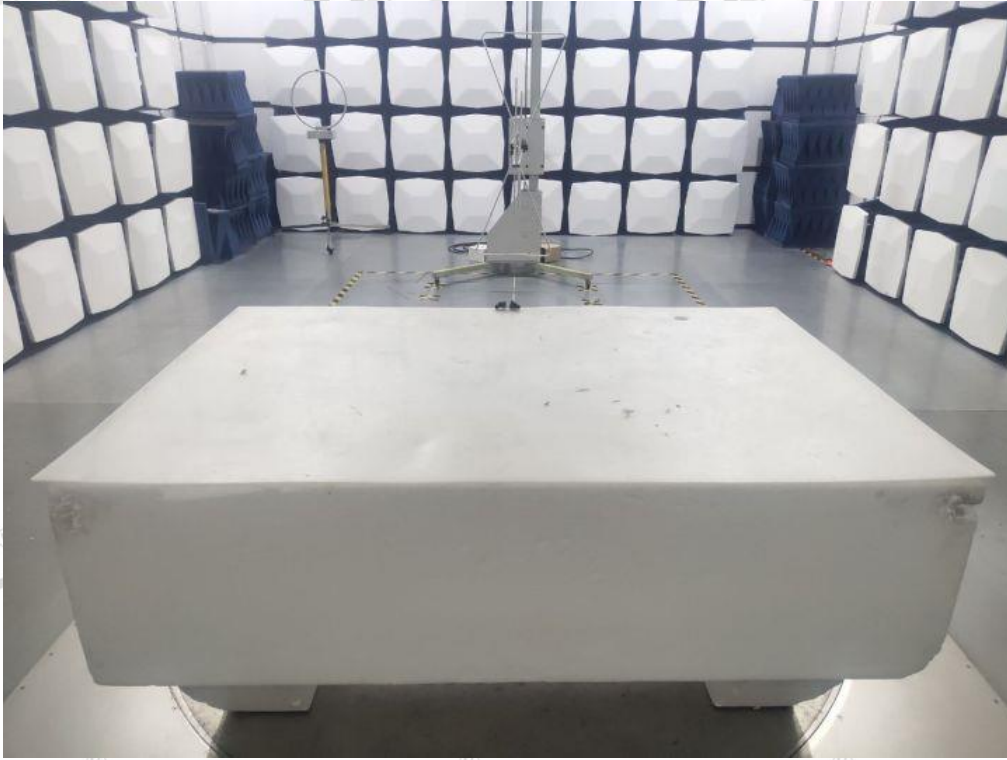
12.1. Limit

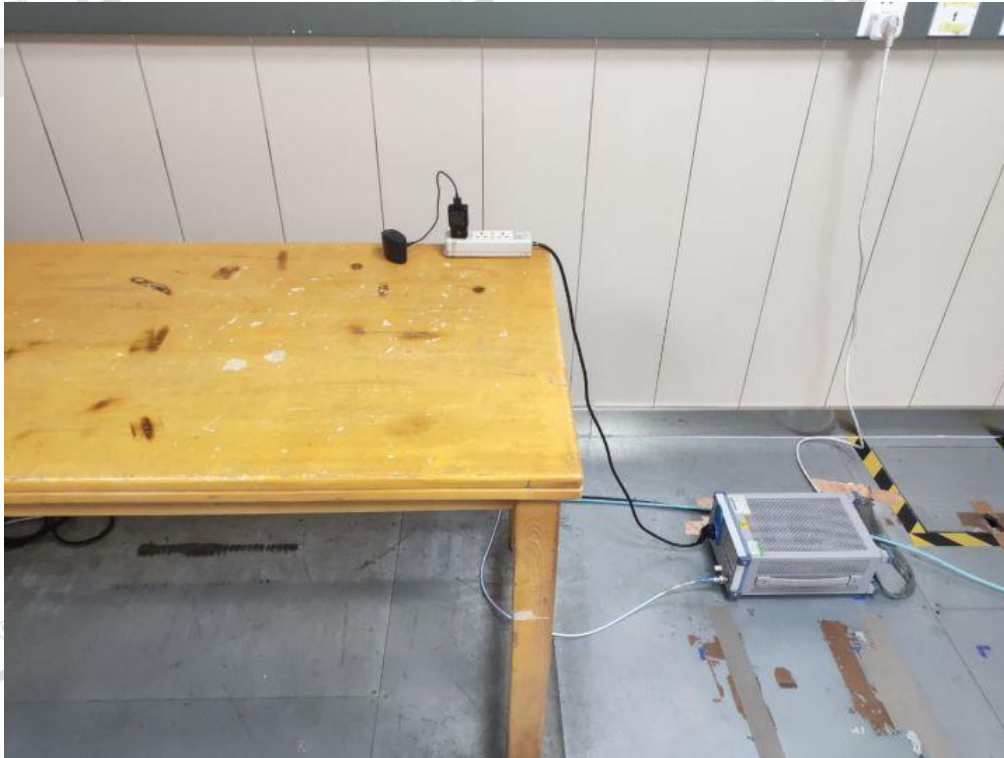
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

12.2. Result

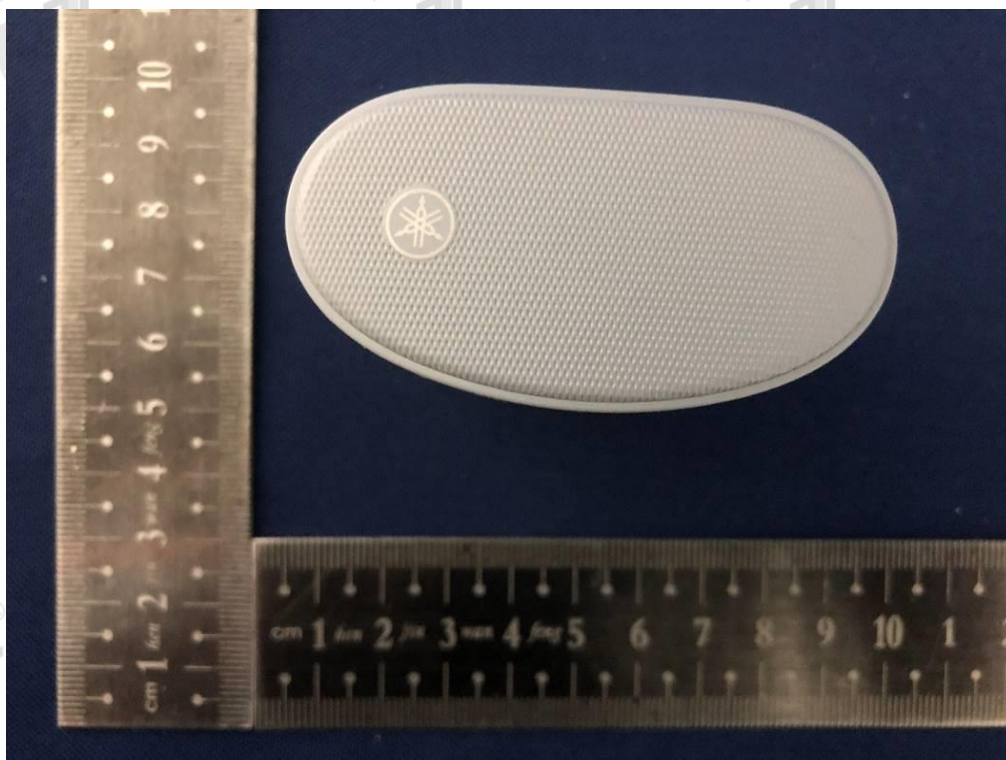
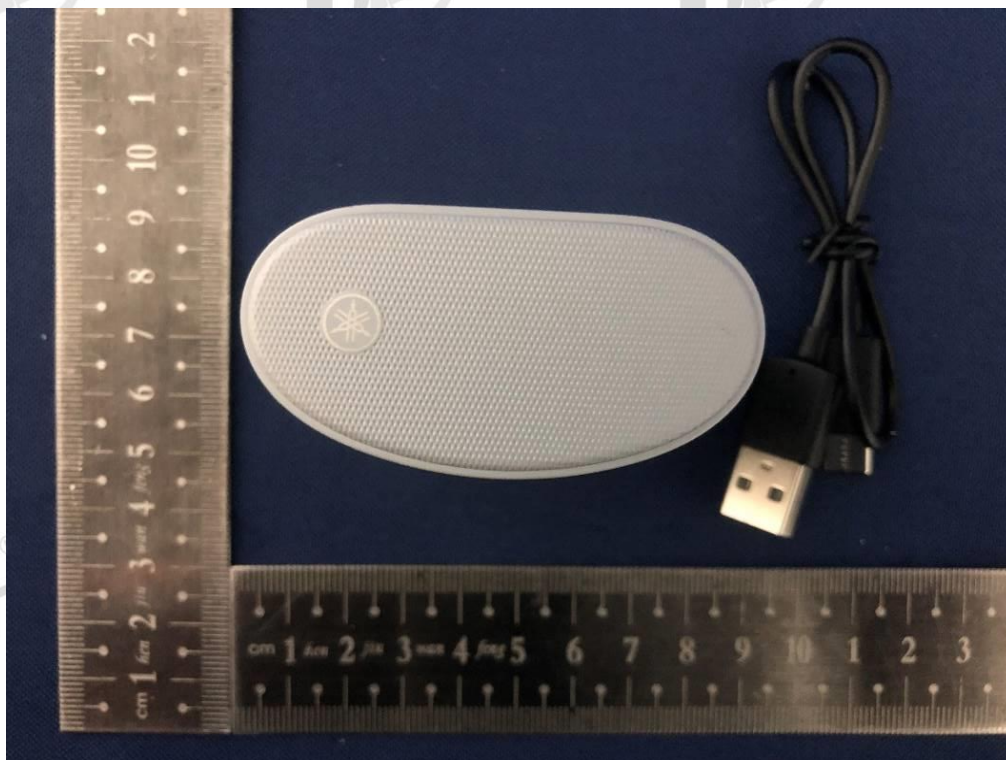
The left side antenna and right side antenna used for this product and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the left side transmit antenna is 0.68 dBi and right side is -0.85 dBi.

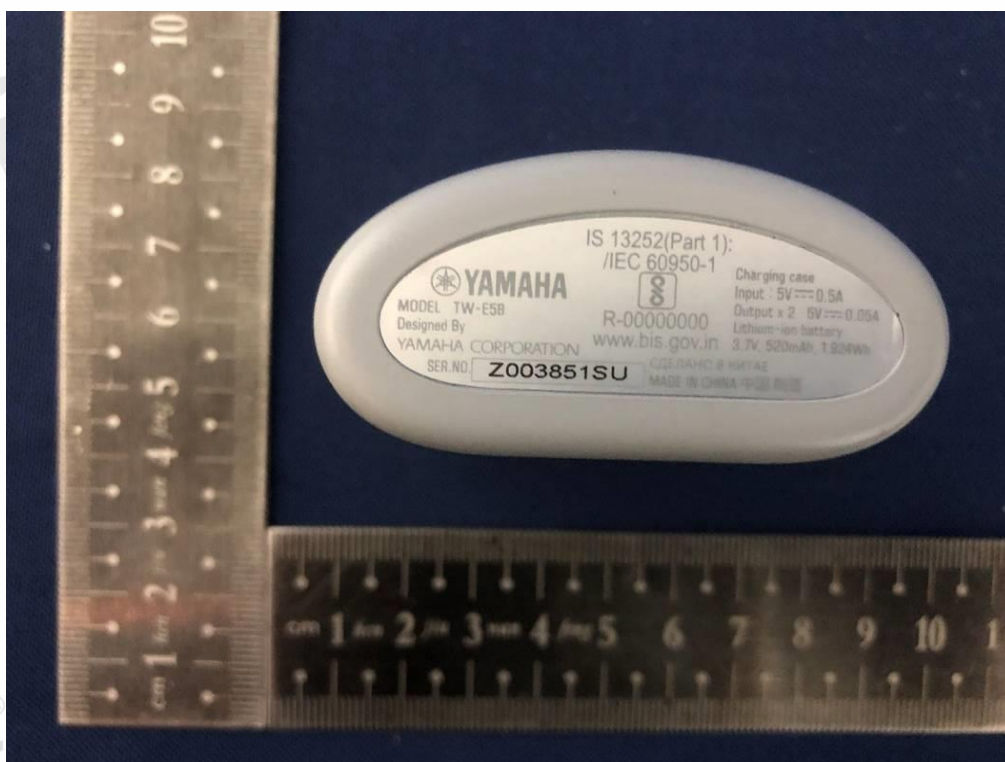
13. Test Setup Photograph



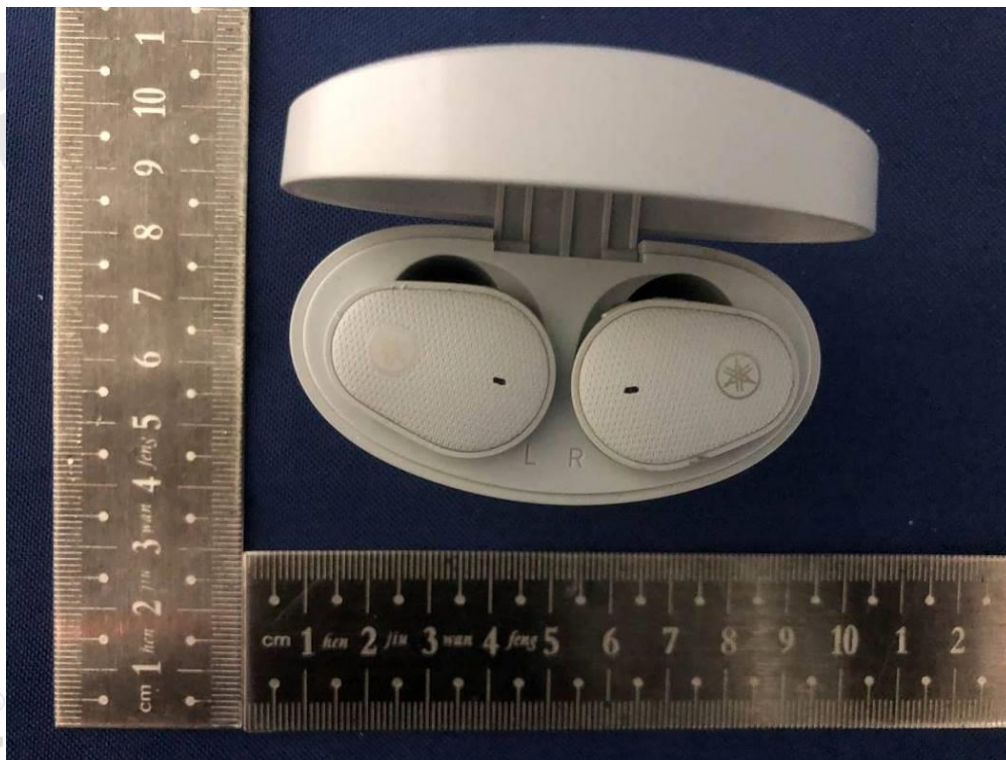
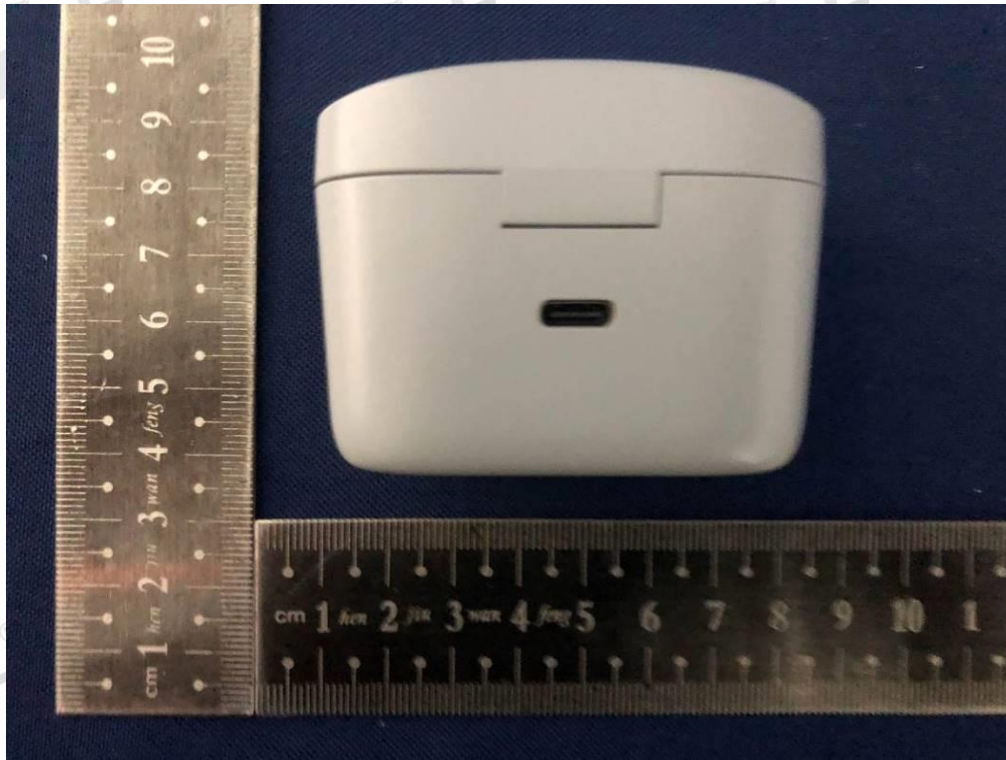


14. Photos of the EUT

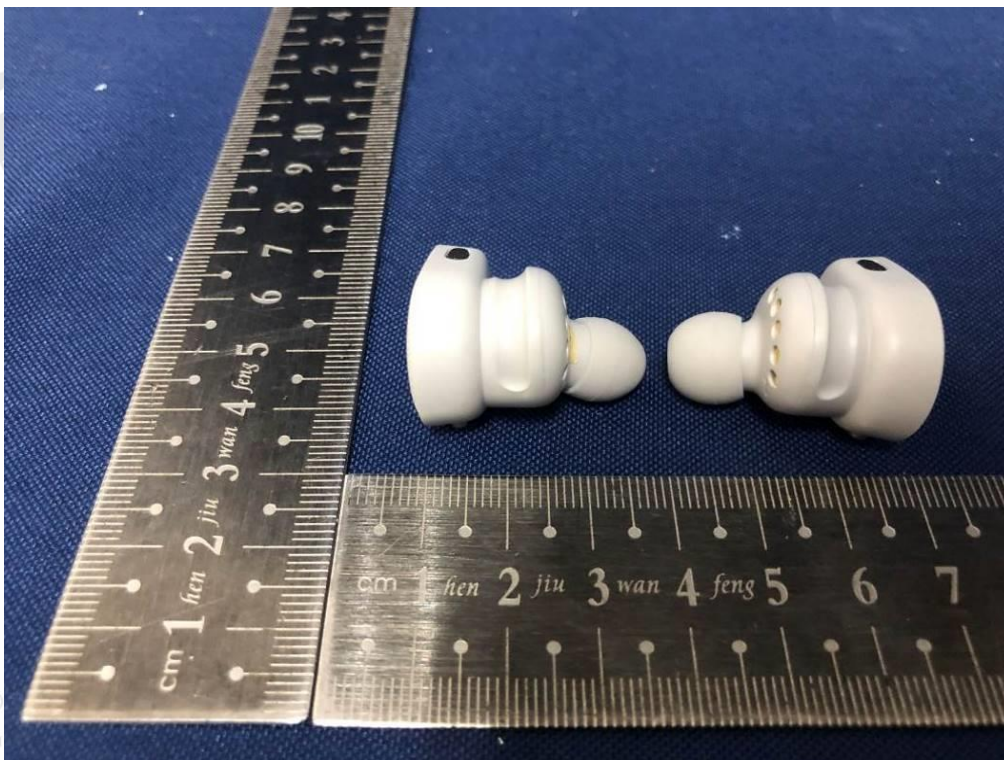




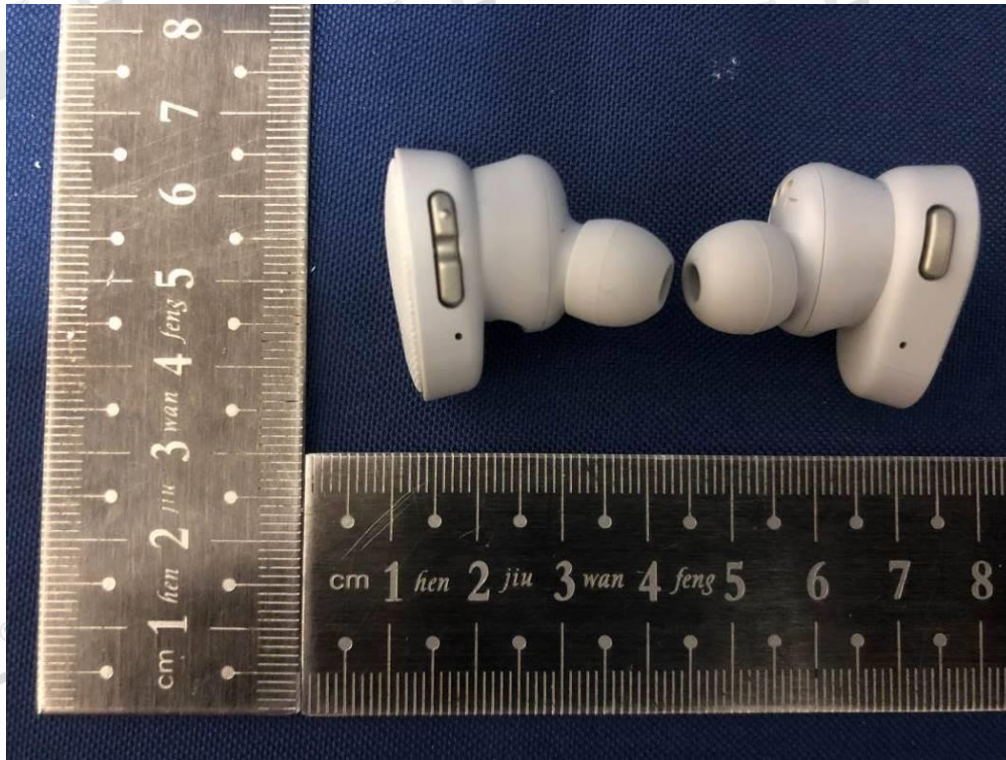


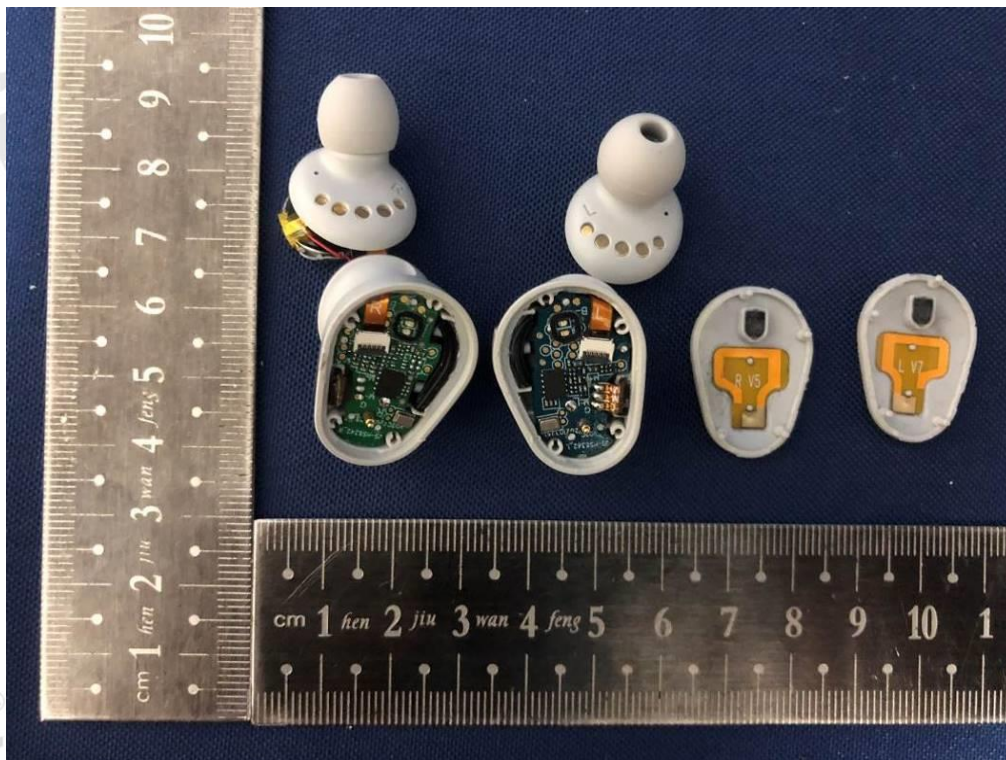


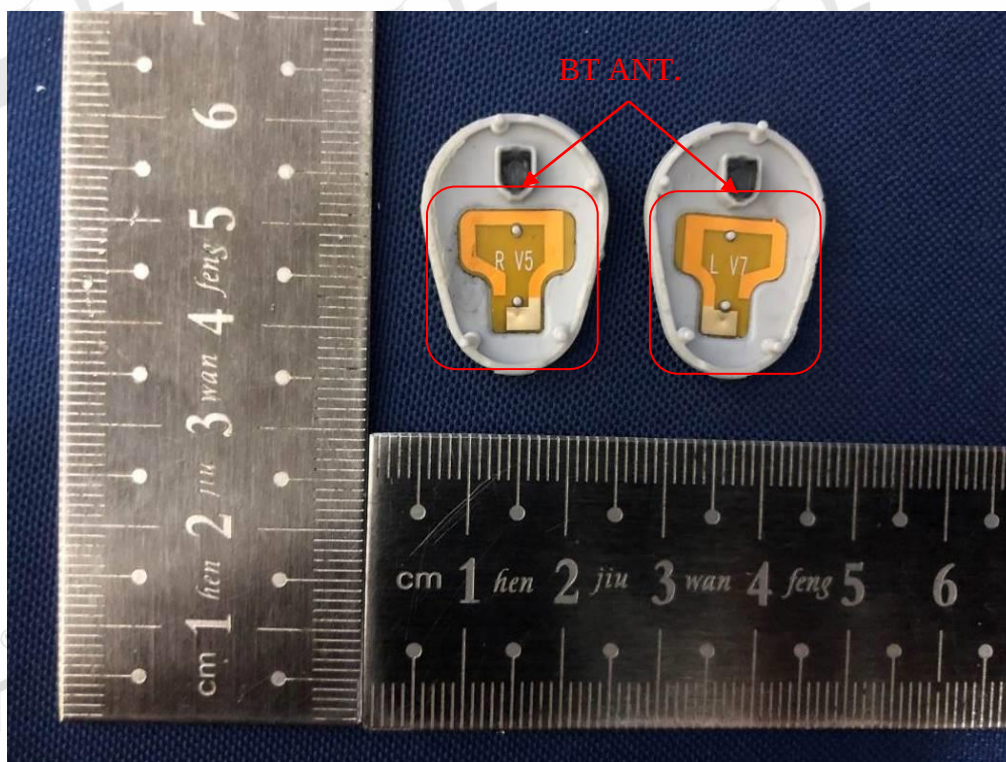


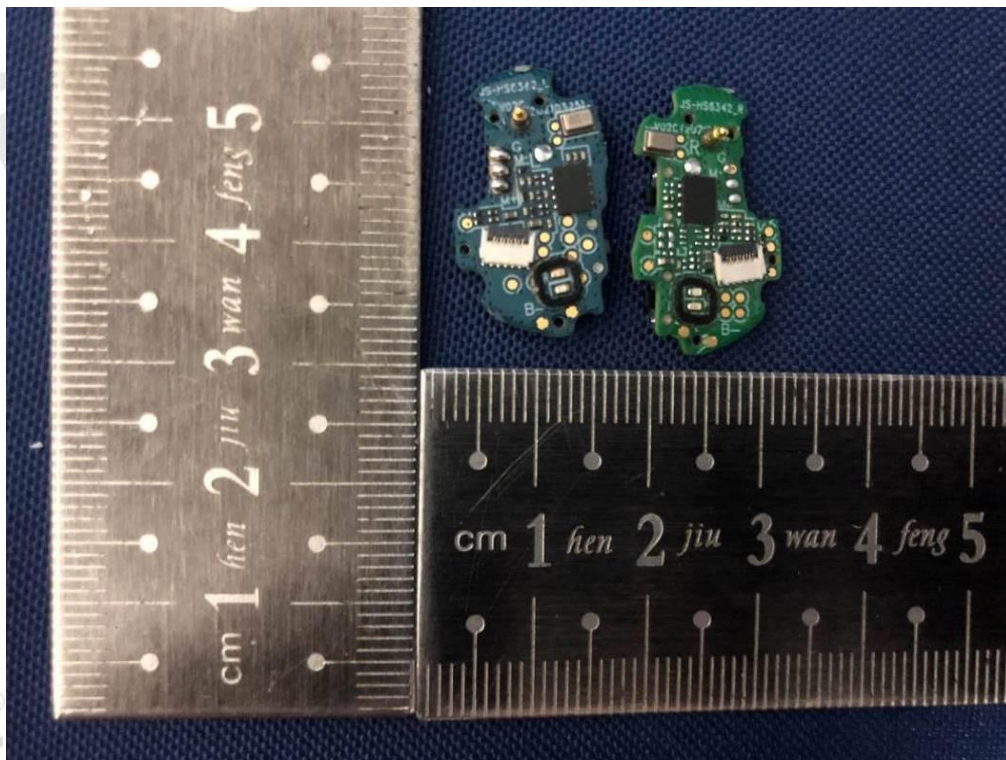
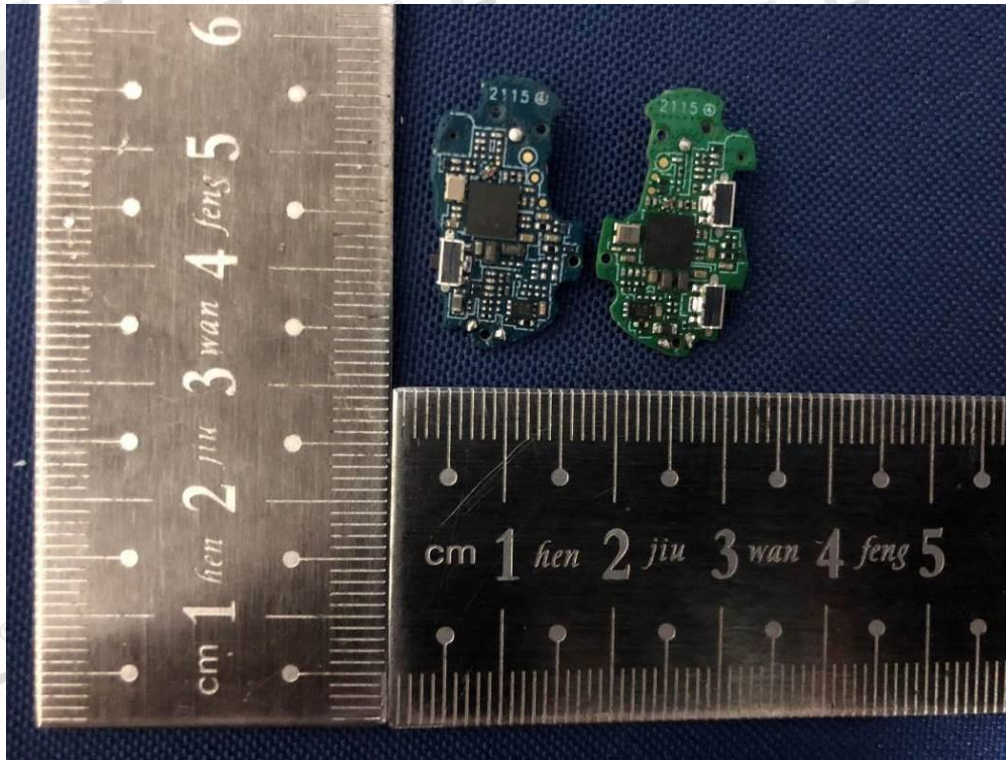


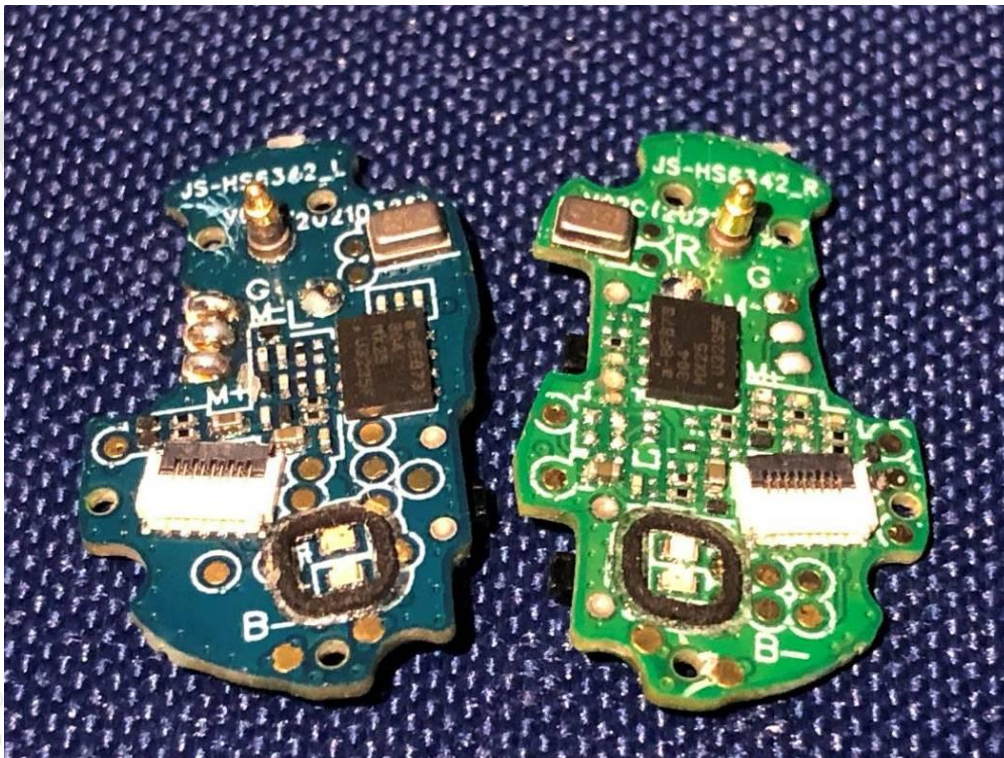
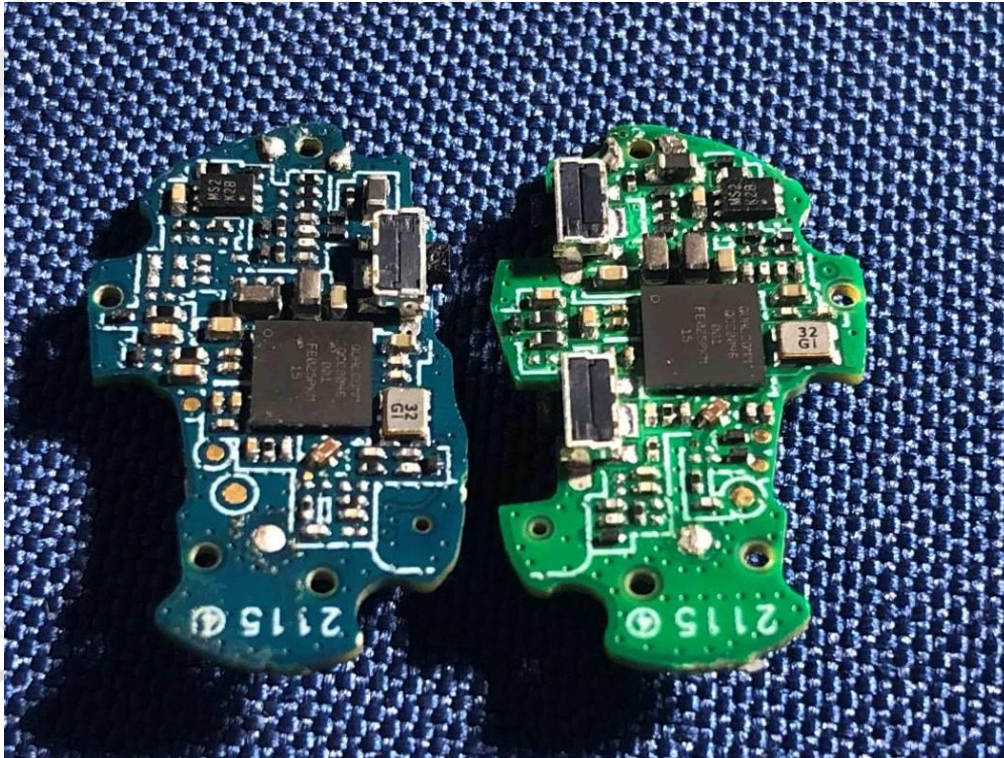


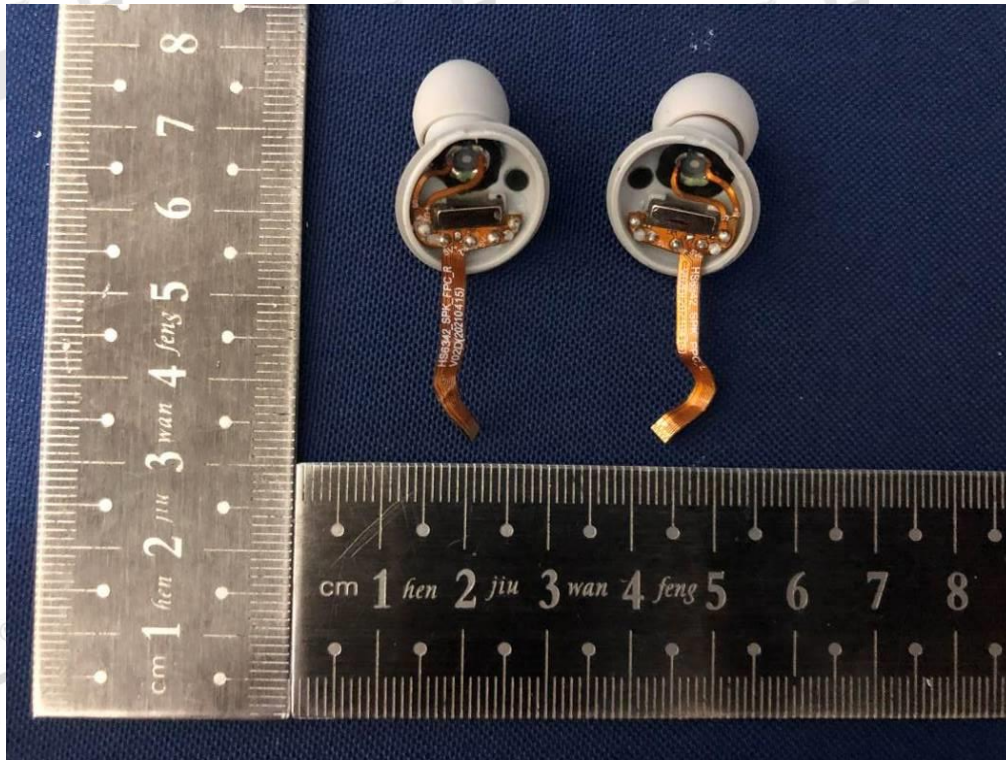


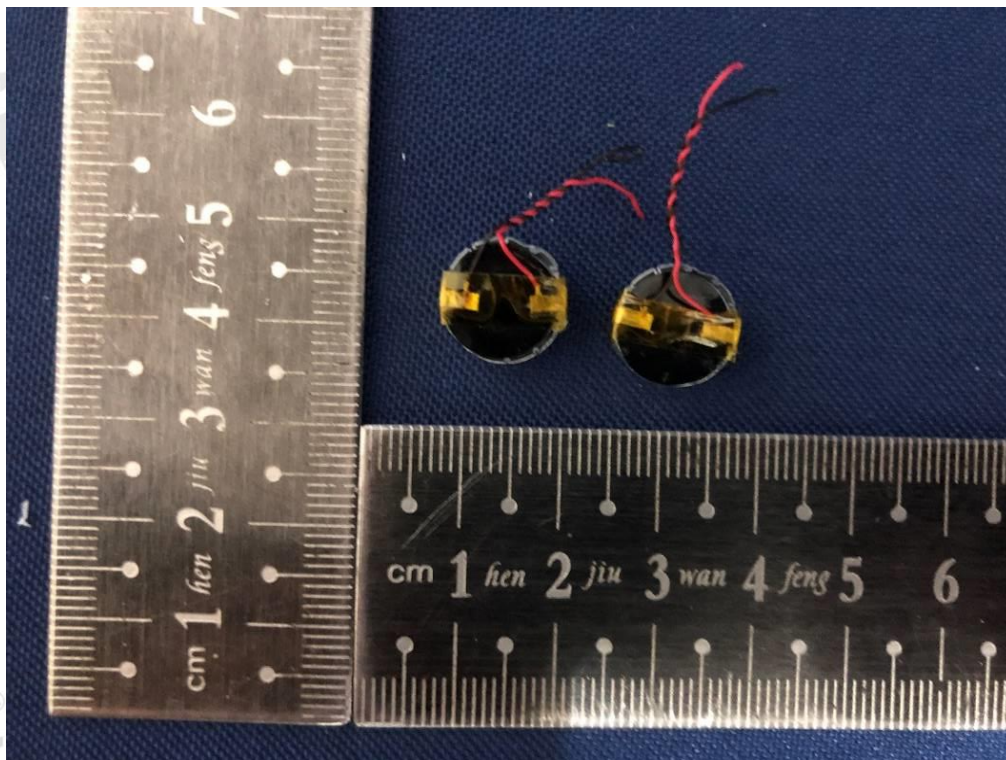
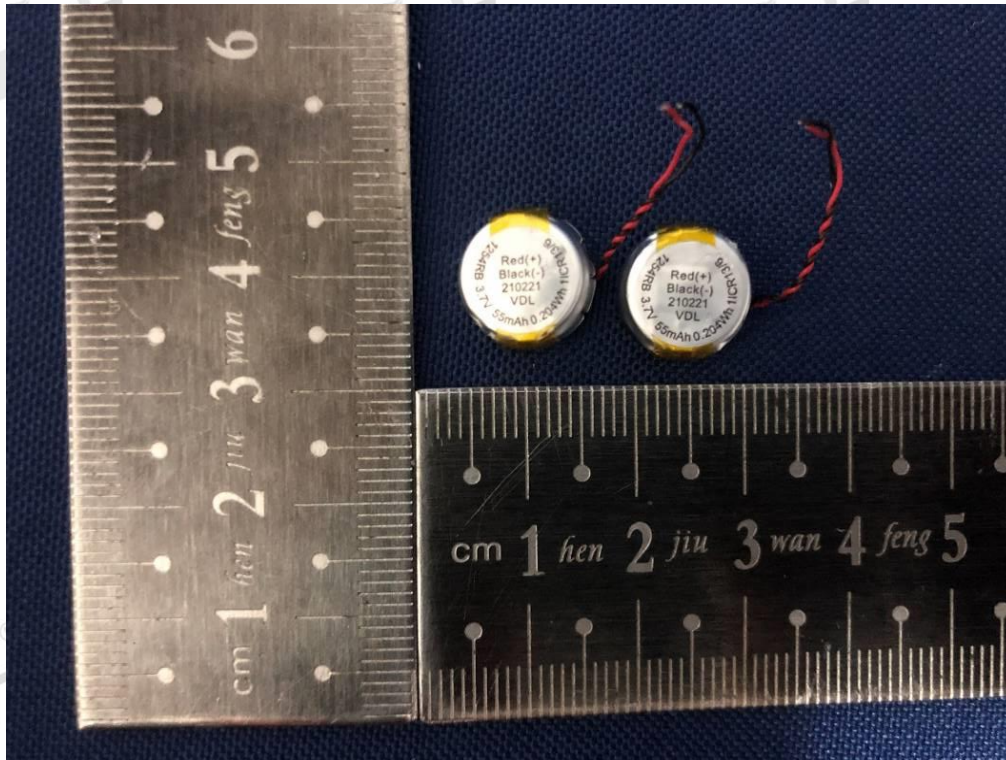


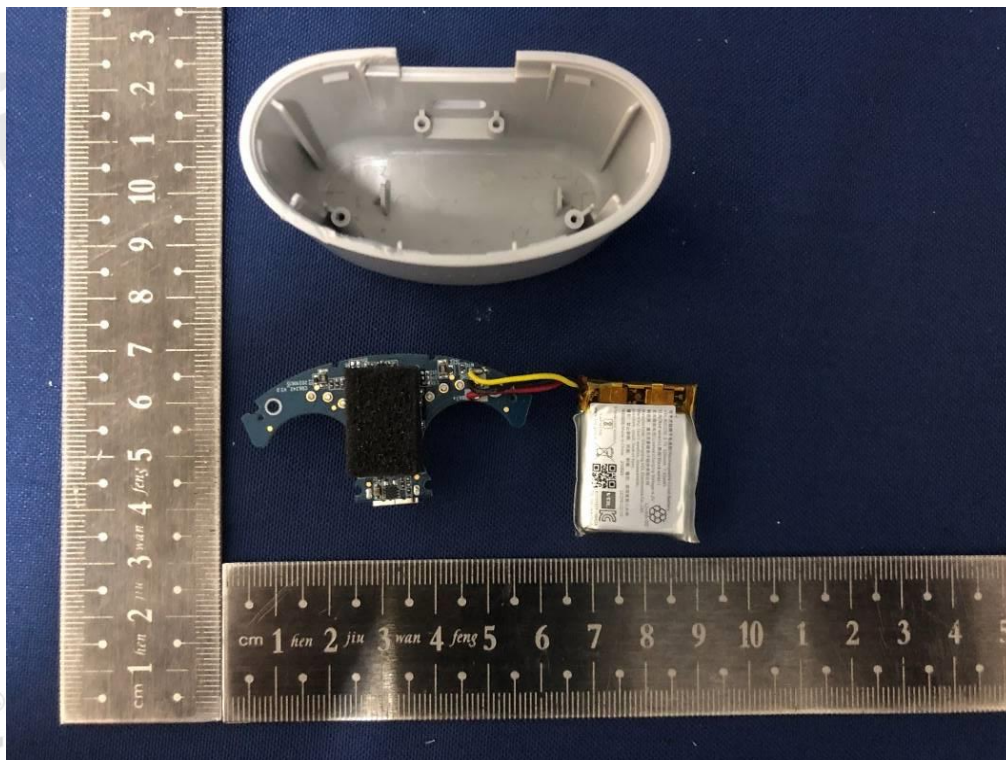
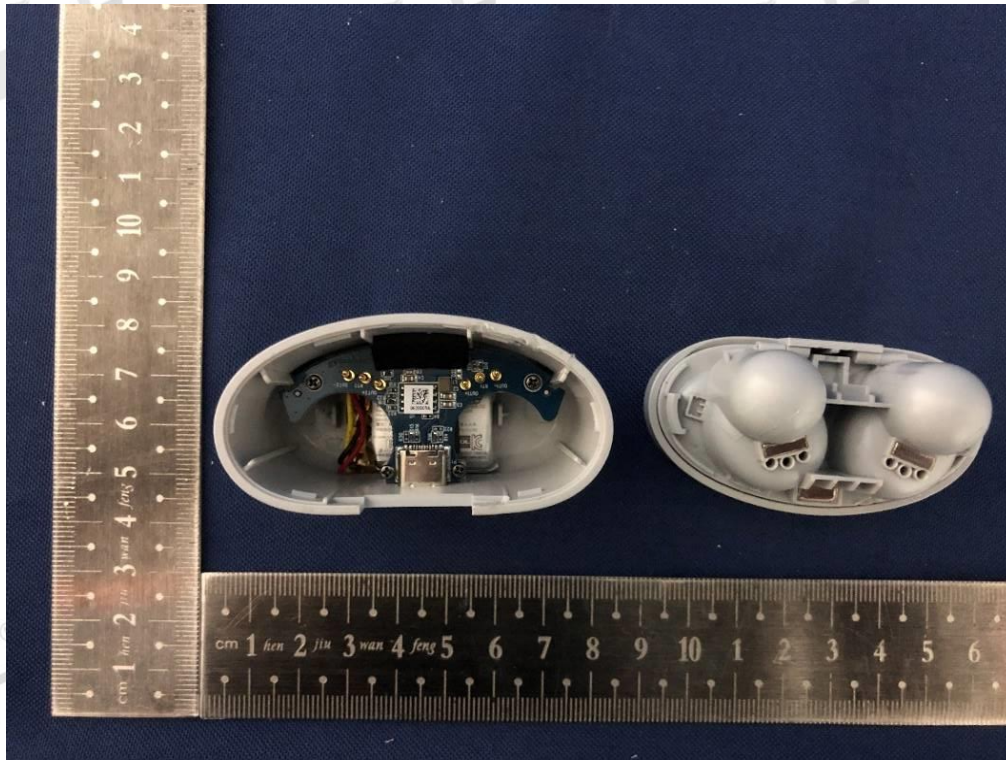


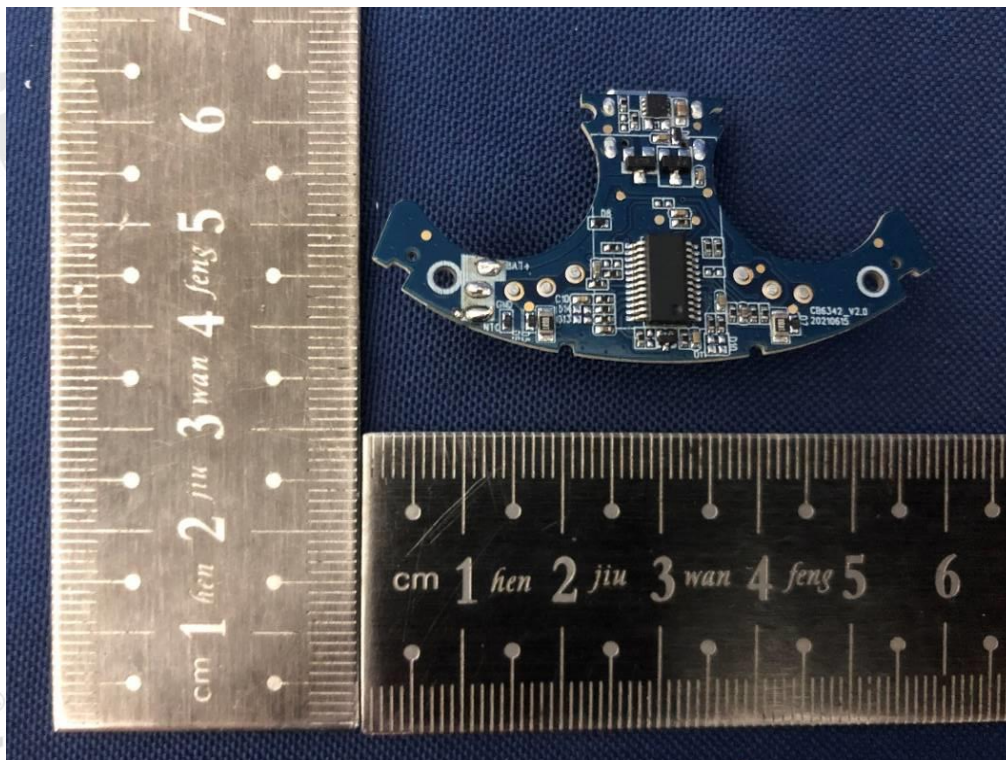
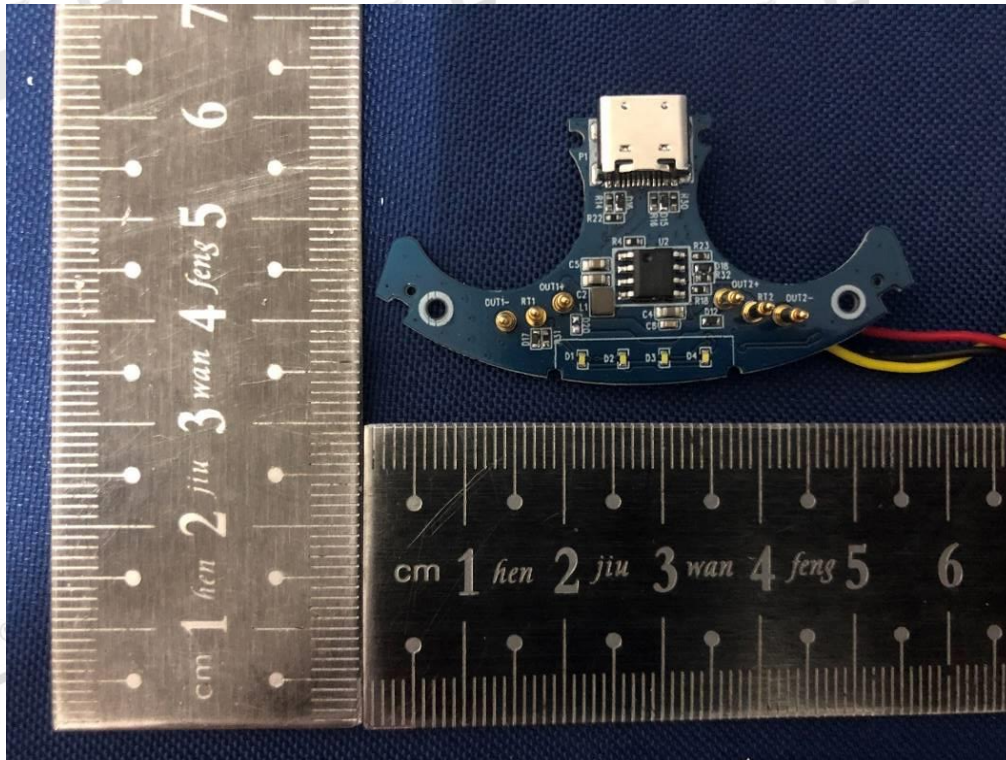


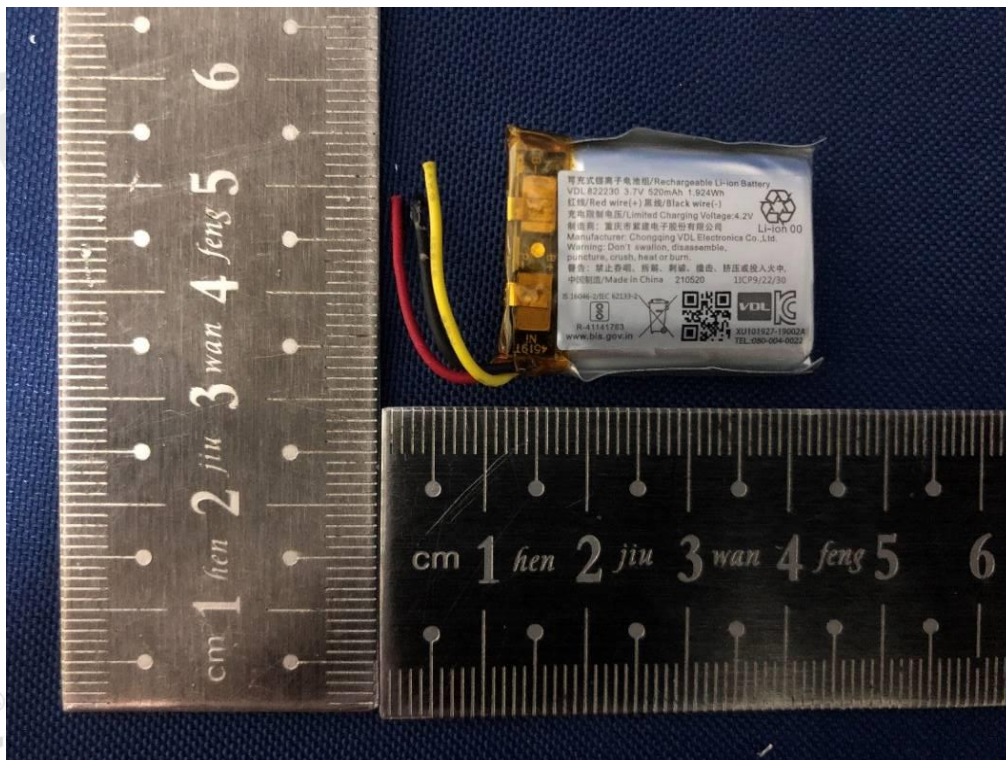












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