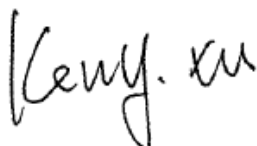


TEST REPORT

Application No.: SZCR2106021666ET(SGS SZ No.: T52110270116EM)
Applicant: Bioniwings (Shenzhen) Technology Co., Ltd.
Address of Applicant: 201 of No.1 Factory, 32nd of First Huimin Road, Guihua Community, Guanlan Blvd, Shenzhen, China
Manufacturer: Bioniwings (Shenzhen) Technology Co., Ltd.
Address of Manufacturer: 201 of No.1 Factory, 32nd of First Huimin Road, Guihua Community, Guanlan Blvd, Shenzhen, China
Buyer: Hammacher Schlemmer, Amazon
Supplier: Bioniwings (Shenzhen) Technology Co., Ltd.
Equipment Under Test (EUT):
EUT Name: Bionic flapping-wing Aircraft
 Wireless Remote Controller
Model No.: Product: Go Go Bird 1010, Go Go Bird 1020, Go Go Bird 1030, Go Go Bird 1040, Go Go Bird 1050, Go Go Bird 1060, Go Go Bird 1070, Go Go Bird 1080, Go Go Bird 1090, RC130
 Remote: FYC 1010, FYC 1020, FYC 1030, FYC 1040, FYC 1050, FYC 1060, FYC 1070, FYC 1080, FYC 1090 *
 * Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Ref. No.: Product: Go Go Bird 1020
 Remote: FYC 1010
Requested Age Grading: 14+
Country of Origin: China
Country of Destination: USA,
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2021-06-18
Date of Test: 2021-06-21 to 2021-06-24
Date of Issue: 2021-09-08

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu
 EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-09-08		Original

Authorized for issue by:			
		Gebin Sun	
		Gebin Sun/Project Engineer	
		Eric Fu	
		Eric Fu/Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.4:2014	Class B	Pass

Declaration of EUT Family Grouping:

Model No.: Product: Go Go Bird 1010, Go Go Bird 1020, Go Go Bird 1030, Go Go Bird 1040, Go Go Bird 1050, Go Go Bird 1060, Go Go Bird 1070, Go Go Bird 1080, Go Go Bird 1090, RC130

Only the model Go Go Bird 1020 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on color, decoration and model No..

Declaration of EUT Family Grouping:

Model No.: Remote: FYC 1010, FYC 1020, FYC 1030, FYC 1040, FYC 1050, FYC 1060, FYC 1070, FYC 1080, FYC 1090

Only the model FYC 1010 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on color, decoration and model No..



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4 General Information

4.1 Details of E.U.T.

Power supply:	3V DC(1.5V x 2 "AAA" Size Batteries) for for remote controller Rechargeable battery DC7.4V,520mAh for bird ,Charged by charger Charger Model:FYCC 1010 Input:USB TypeC DC5V 2A Output:DC8.4V 1A
Internal Source	Less than 108MHZ

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1357	REF. No.SEA05A01A
Type-C Cable	SGS	N/A	REF. No.SEA07B00

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	± 2.9dB
Radiated Emissions (30MHz-1GHz)	± 5.5dB

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cisp} (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2021-07-09	2022-07-08
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2021-07-09	2022-07-08

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



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6 Emission Test Results

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

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014

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
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

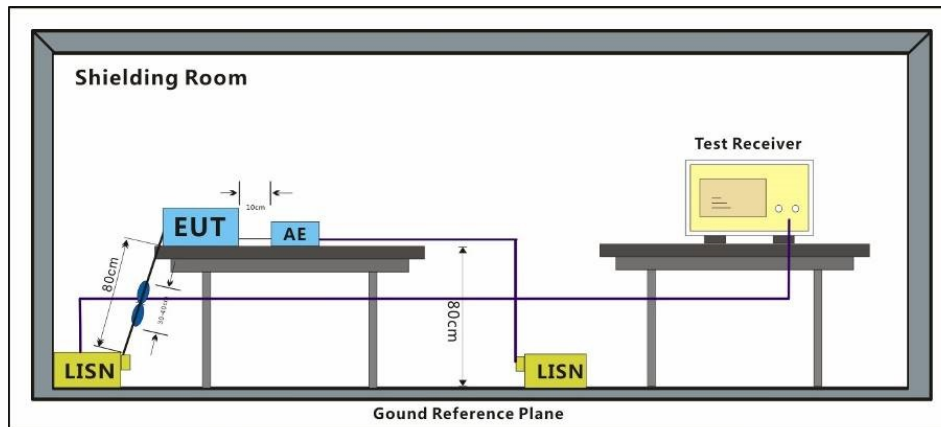
6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 60.7 % RH Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge mode,keep EUT(battery) being charged.

6.1.3 Test Setup Diagram



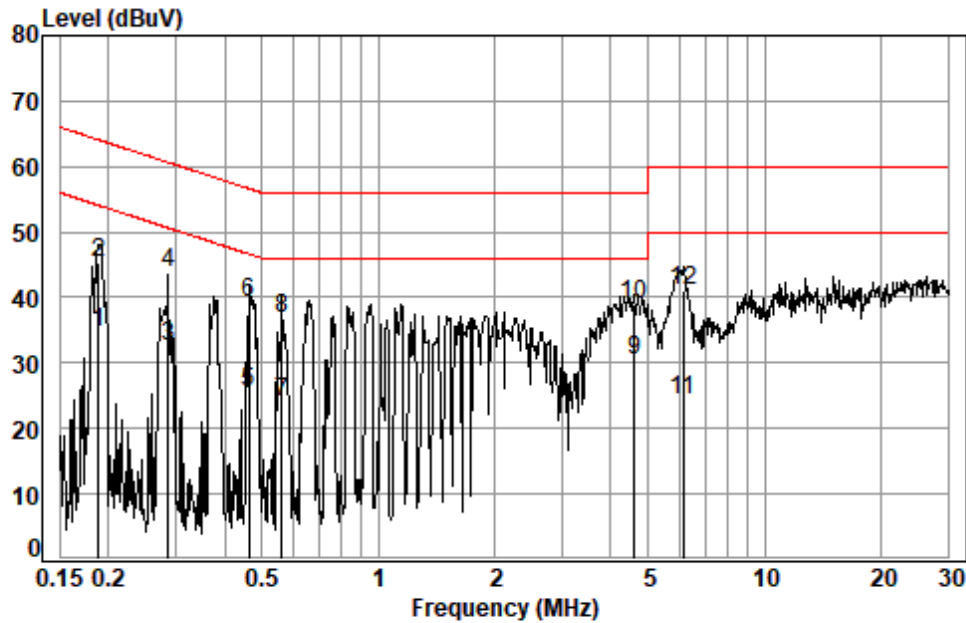
6.1.4 Measurement Procedure and Data

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.

Remark: Level= Read Level+ Cable Loss+ LISN Factor



Test Mode: 00; Line: Live line



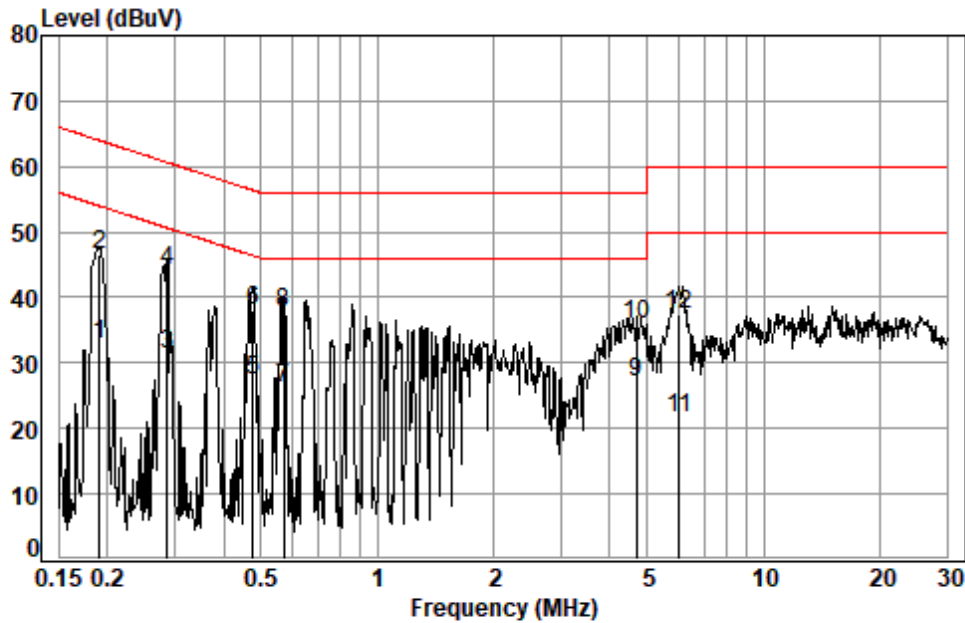
Site : Shielding Room
Condition: Line
Job No. : 21666ET
Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1884	0.03	9.72	25.02	34.77	54.11	-19.34	Average
2	0.1884	0.03	9.72	35.44	45.19	64.11	-18.92	QP
3	0.2863	0.05	9.74	22.87	32.66	50.63	-17.97	Average
4	0.2863	0.05	9.74	34.05	43.84	60.63	-16.79	QP
5	0.4637	0.07	9.77	15.59	25.43	46.63	-21.20	Average
6	0.4637	0.07	9.77	29.26	39.10	56.63	-17.53	QP
7	0.5641	0.08	9.77	14.03	23.88	46.00	-22.12	Average
8	0.5641	0.08	9.77	26.82	36.67	56.00	-19.33	QP
9	4.5979	0.16	9.91	20.36	30.43	46.00	-15.57	Average
10	4.5979	0.16	9.91	28.99	39.06	56.00	-16.94	QP
11	6.1534	0.16	9.99	14.25	24.40	50.00	-25.60	Average
12	6.1534	0.16	9.99	31.05	41.20	60.00	-18.80	QP



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Test Mode: 00; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 21666ET
Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1914	0.04	9.72	23.18	32.94	53.98	-21.04	Average
2	0.1914	0.04	9.72	36.91	46.67	63.98	-17.31	QP
3	0.2863	0.05	9.74	21.48	31.27	50.63	-19.36	Average
4	0.2863	0.05	9.74	34.28	44.07	60.63	-16.56	QP
5	0.4761	0.07	9.76	17.50	27.33	46.41	-19.08	Average
6	0.4761	0.07	9.76	28.20	38.03	56.41	-18.38	QP
7	0.5731	0.08	9.77	16.26	26.11	46.00	-19.89	Average
8	0.5731	0.08	9.77	27.92	37.77	56.00	-18.23	QP
9	4.6964	0.16	9.92	17.12	27.20	46.00	-18.80	Average
10	4.6964	0.16	9.92	25.71	35.79	56.00	-20.21	QP
11	6.0563	0.16	9.99	11.37	21.52	50.00	-28.48	Average
12	6.0563	0.16	9.99	27.19	37.34	60.00	-22.66	QP



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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

FREQUENCY (MHz)	dB μ V/m (At 10m)	dB μ V/m (At 3m)
	Class B	Class B
30MHz -88MHz	29.5	40.0
88MHz-216MHz	33.1	43.5
216MHz-960MHz	35.6	46.0
960MHz-1000MHz	43.5	54.0

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.7 °C

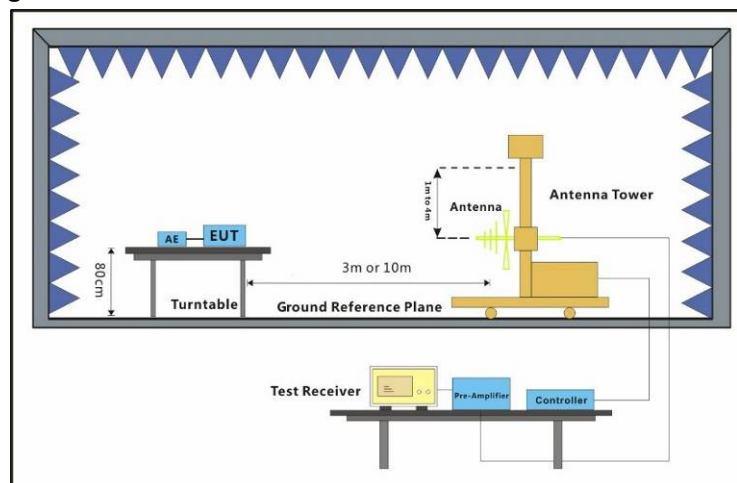
Humidity: 67.5 % RH

Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Charge mode,keep EUT(battery) being charged.

6.2.3 Test Setup Diagram



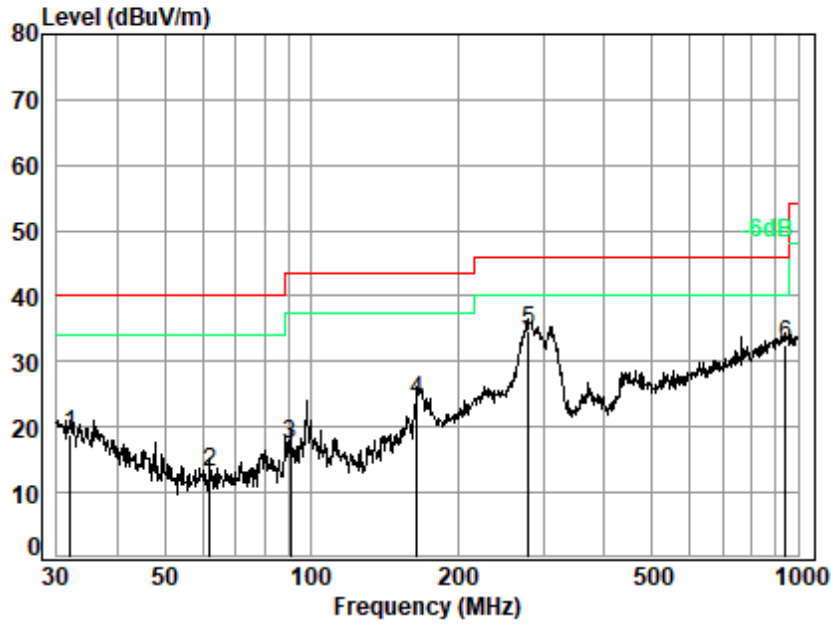
6.2.4 Measurement Procedure and Data

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.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Test Mode: 00; Polarity: Horizontal



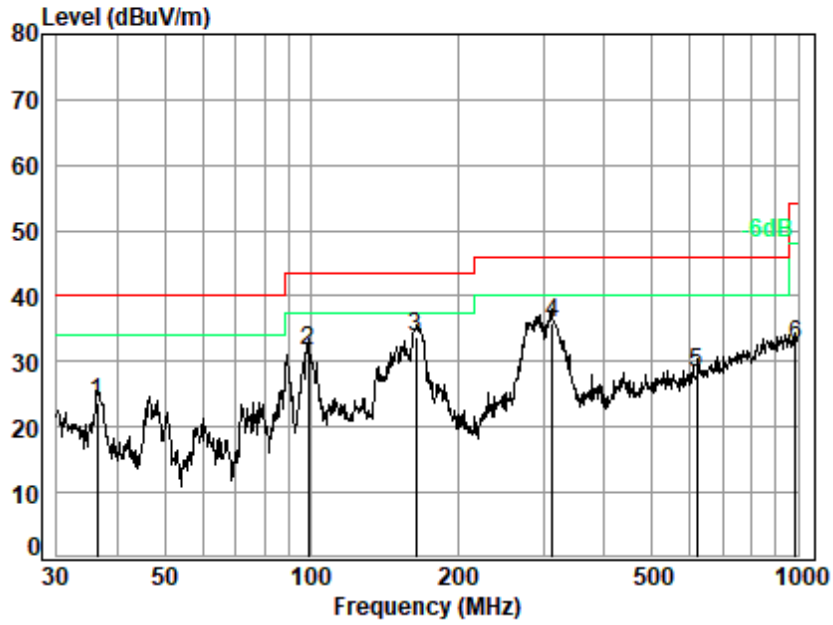
Site : chamber
Condition: 3m HORIZONTAL
Job No. : 21666ET
Test mode: 00

	Ant	Cable	Preamp	Read	Limit	Over		
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.95	21.53	0.62	27.73	24.57	18.99	40.00	-21.01
2	62.00	13.00	0.80	27.66	27.00	13.14	40.00	-26.86
3	90.54	13.21	1.29	27.62	30.55	17.43	43.50	-26.07
4	164.91	15.50	1.17	27.27	34.63	24.03	43.50	-19.47
5 q	279.04	18.42	1.86	26.92	41.20	34.56	46.00	-11.44
6	942.13	29.23	3.54	26.95	26.60	32.42	46.00	-13.58



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Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 21666ET
Test mode: 00

	Ant	Cable	Preamp	Read	Limit	Over			
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	36.38	19.60	0.67	27.72	31.06	23.61	40.00	-16.39	QP
2	98.49	13.92	1.13	27.61	44.12	31.56	43.50	-11.94	QP
3 q	164.33	15.49	1.17	27.28	44.24	33.62	43.50	-9.88	QP
4	312.18	19.49	2.04	26.94	41.37	35.96	46.00	-10.04	QP
5	620.71	26.69	2.74	28.08	26.99	28.34	46.00	-17.66	QP
6	989.54	29.64	3.59	26.71	25.88	32.40	54.00	-21.60	QP



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7 Test Setup Photo

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



Radiated Emissions (30MHz-1GHz)



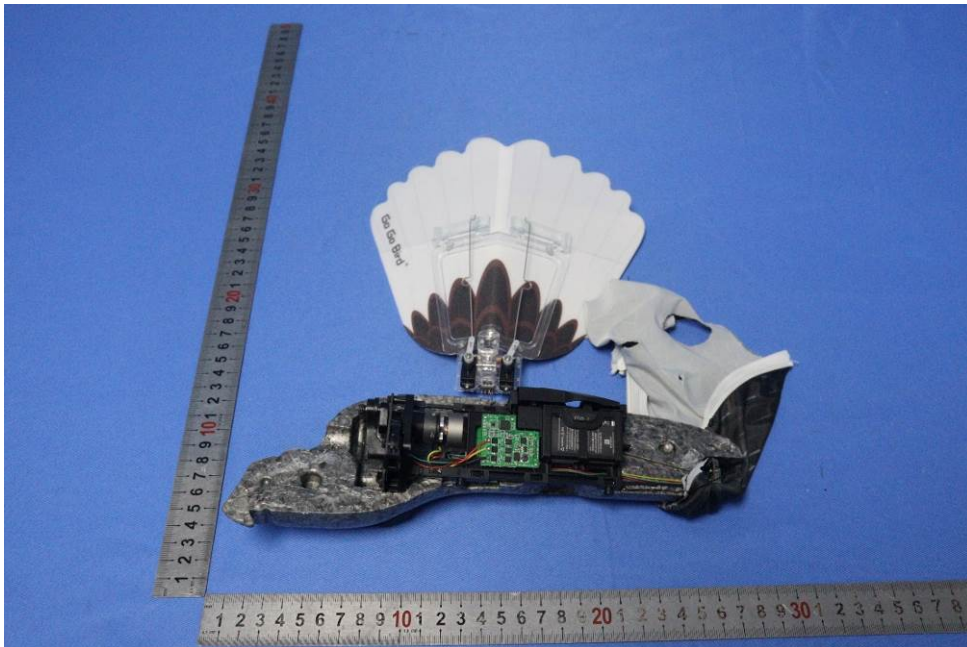
8 EUT Constructional Details (EUT Photos)

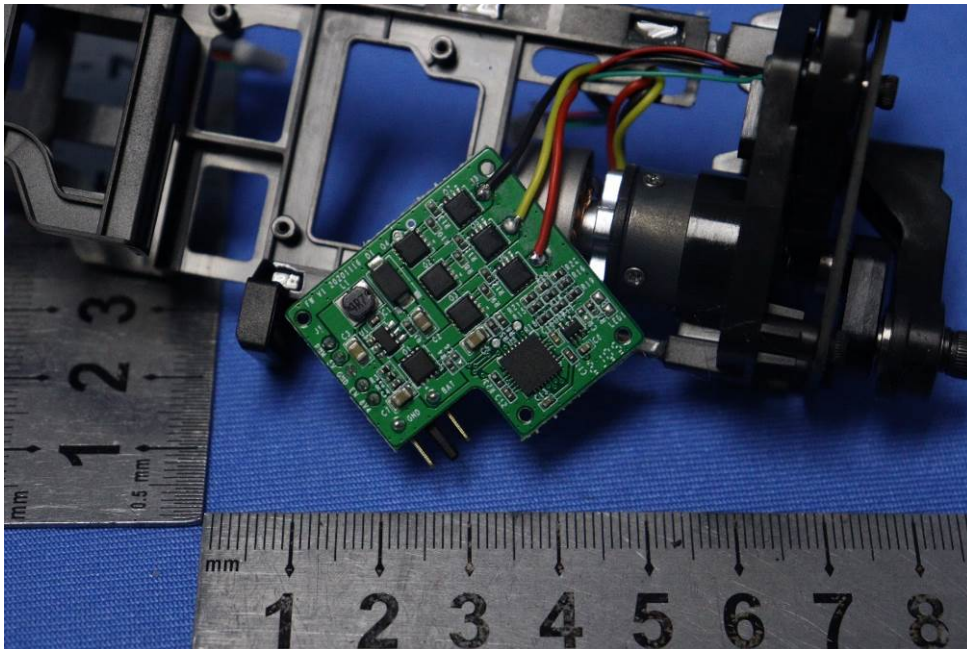
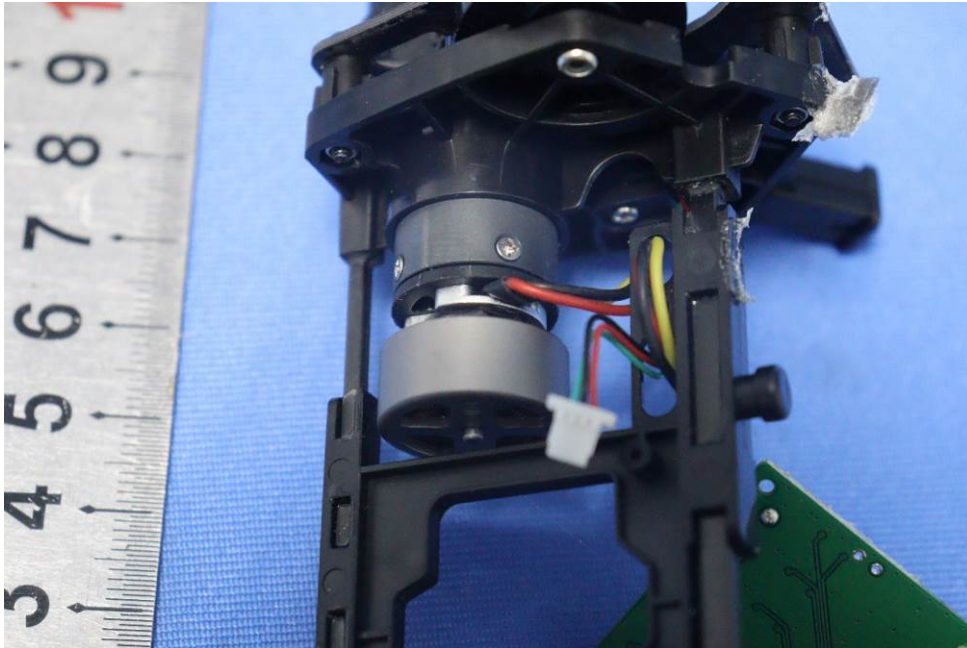


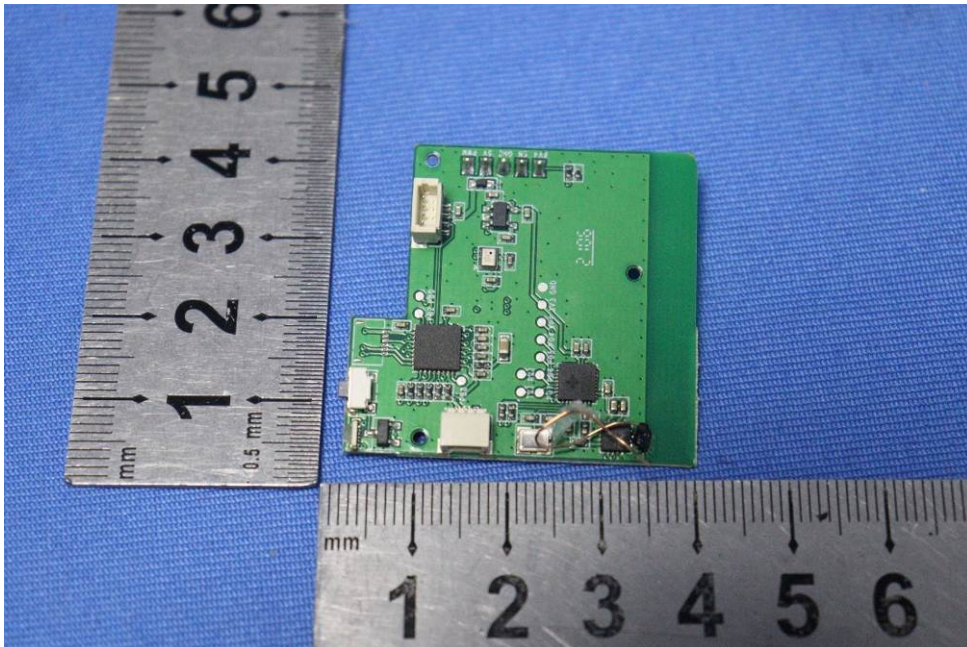
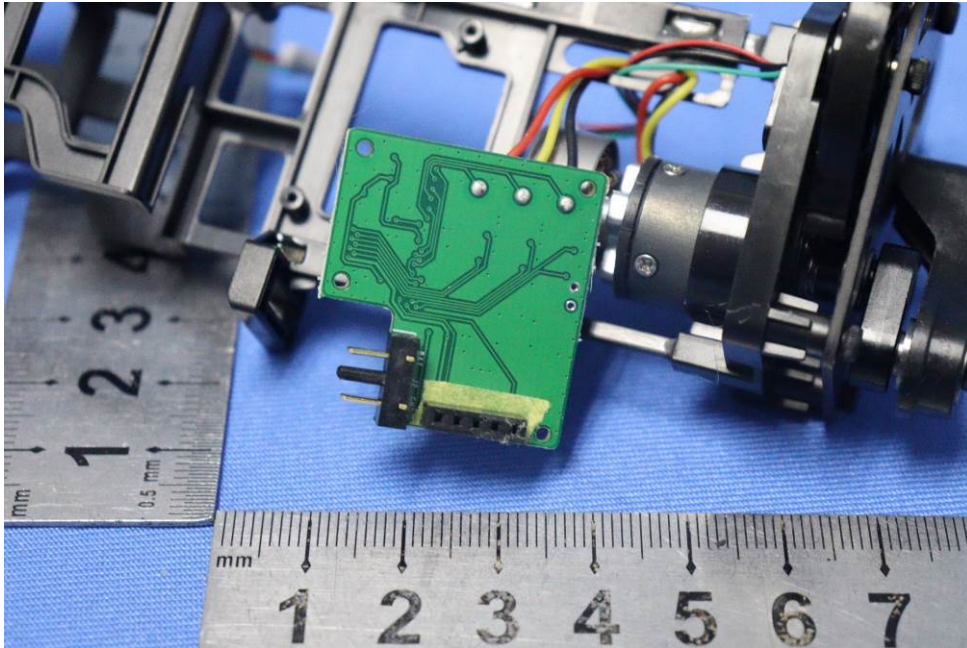


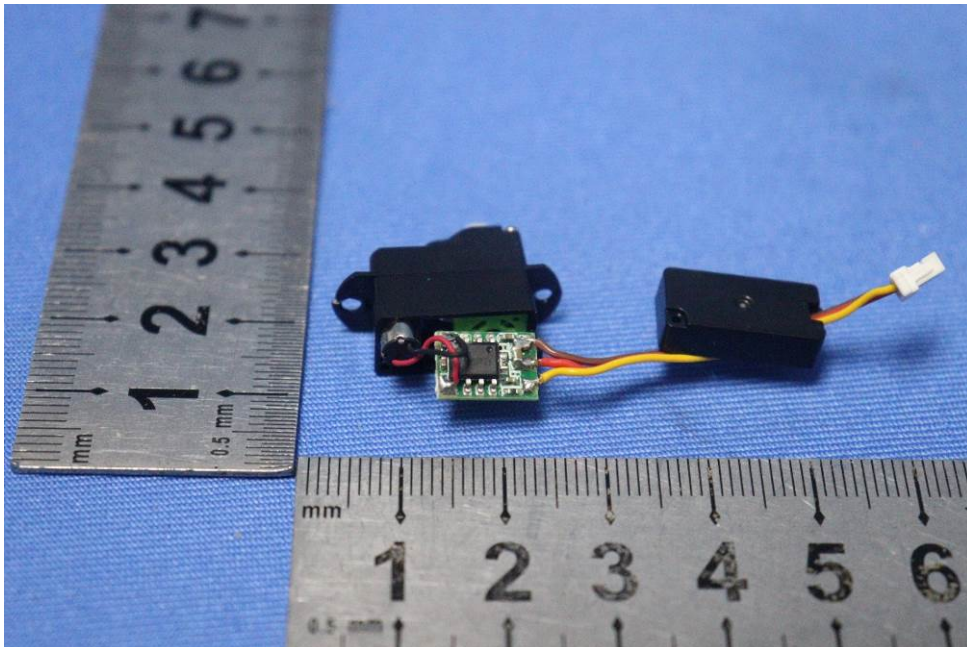
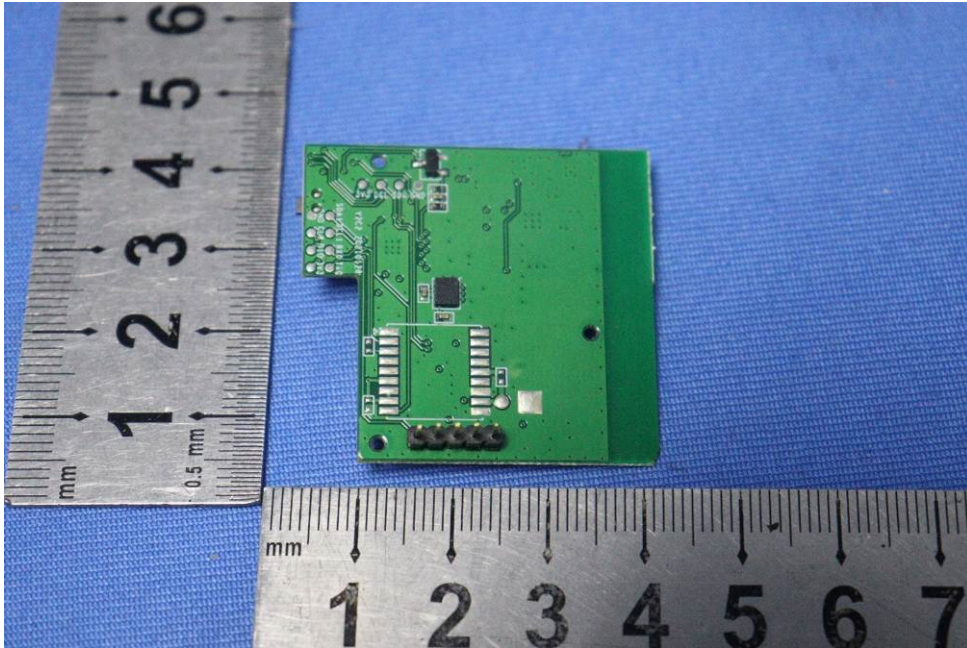
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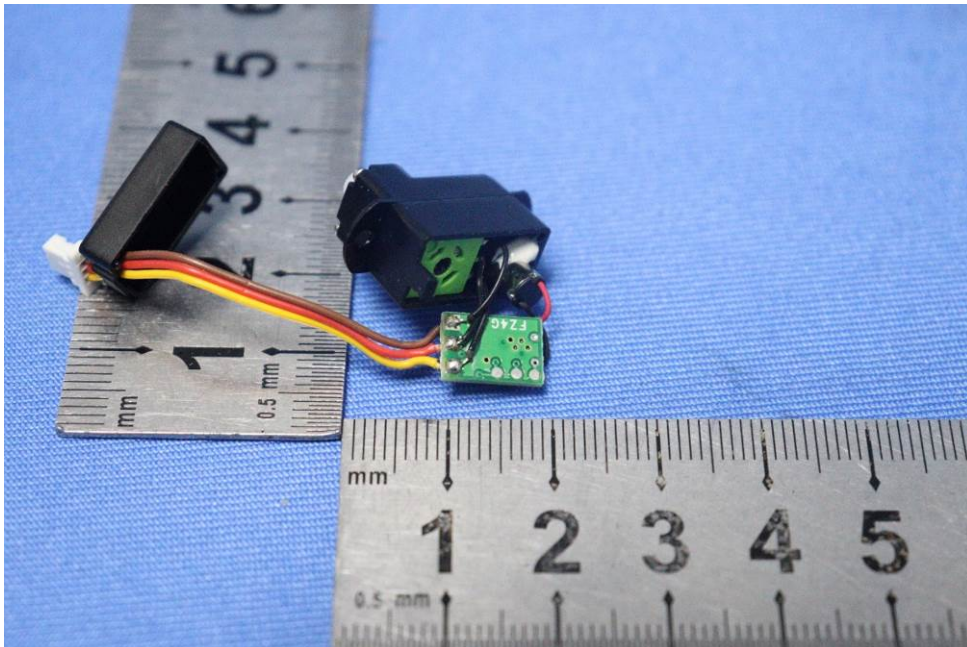
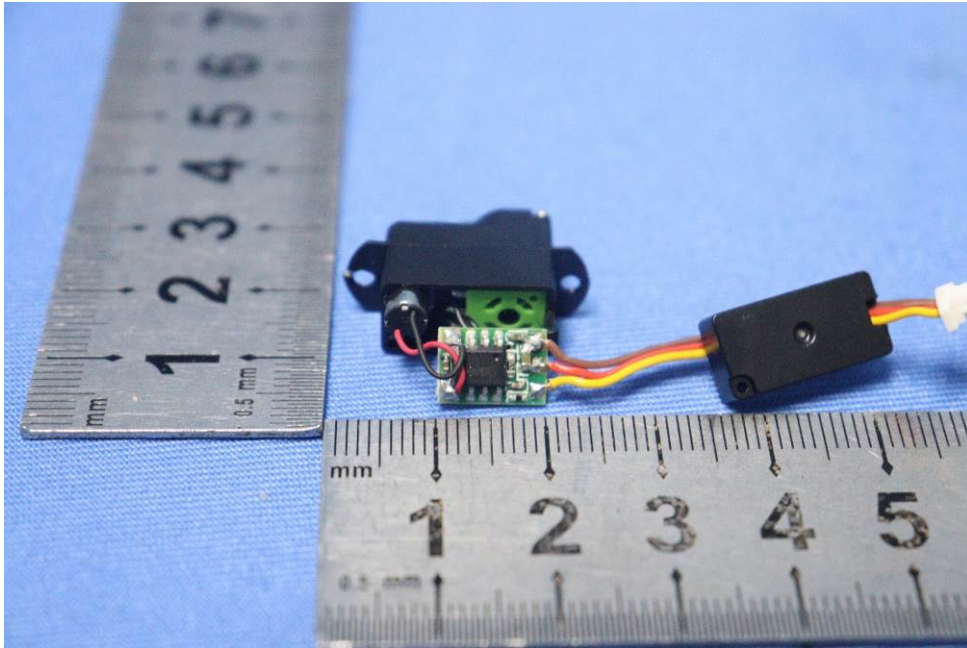










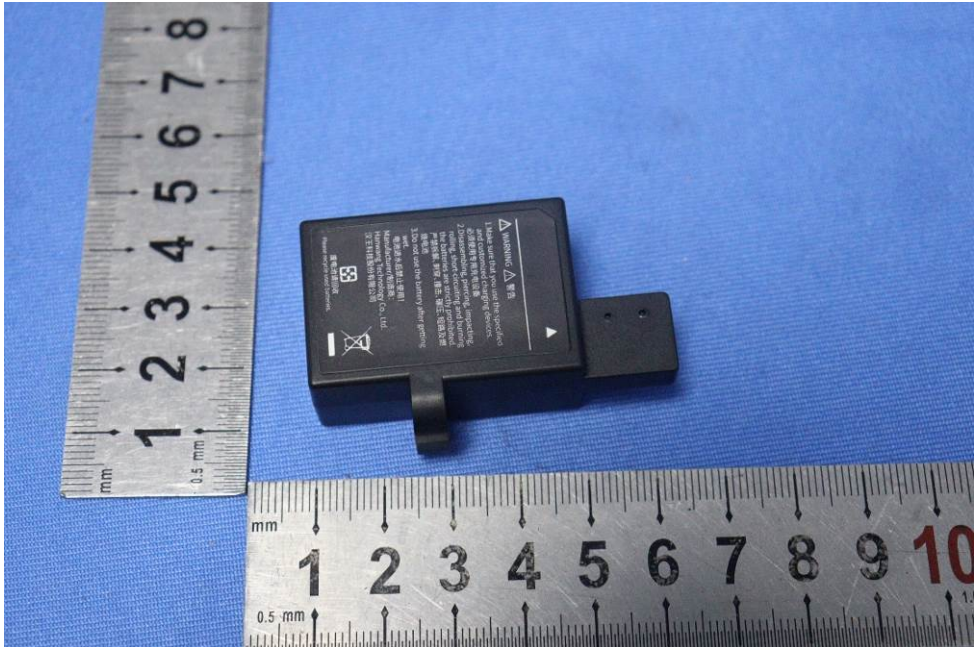
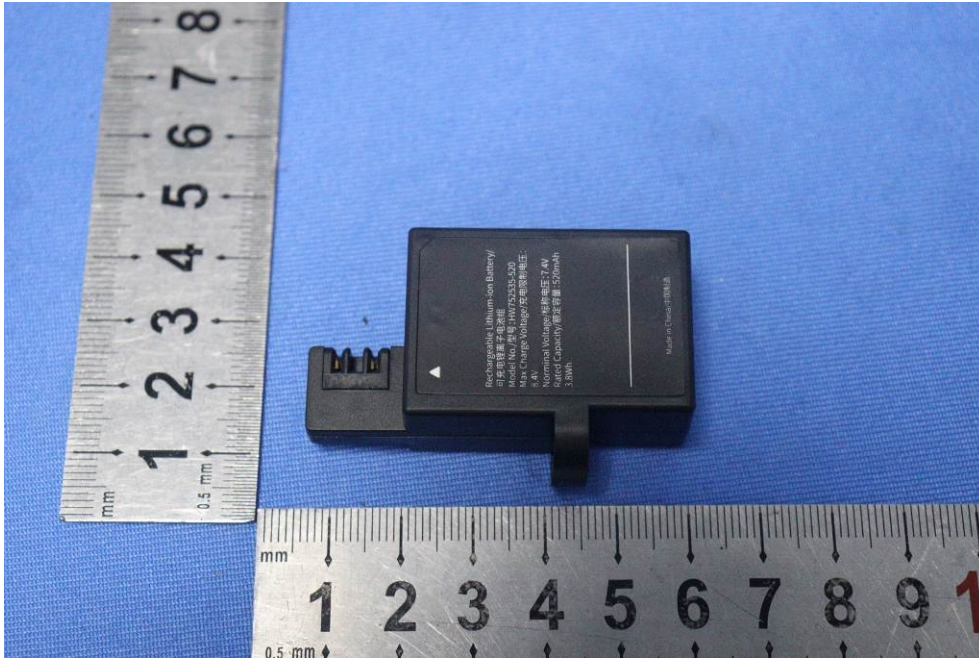


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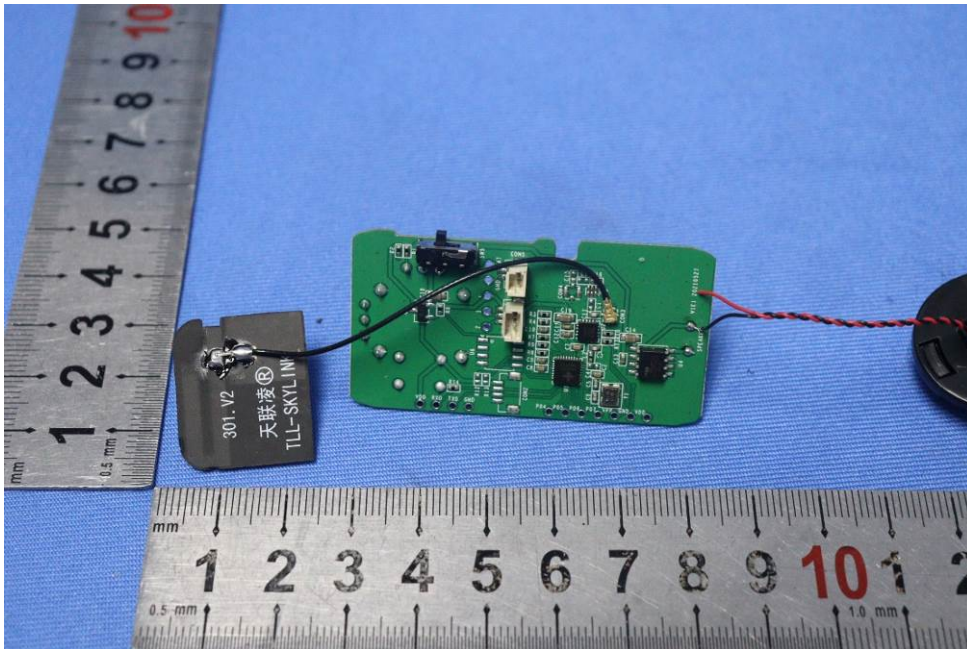
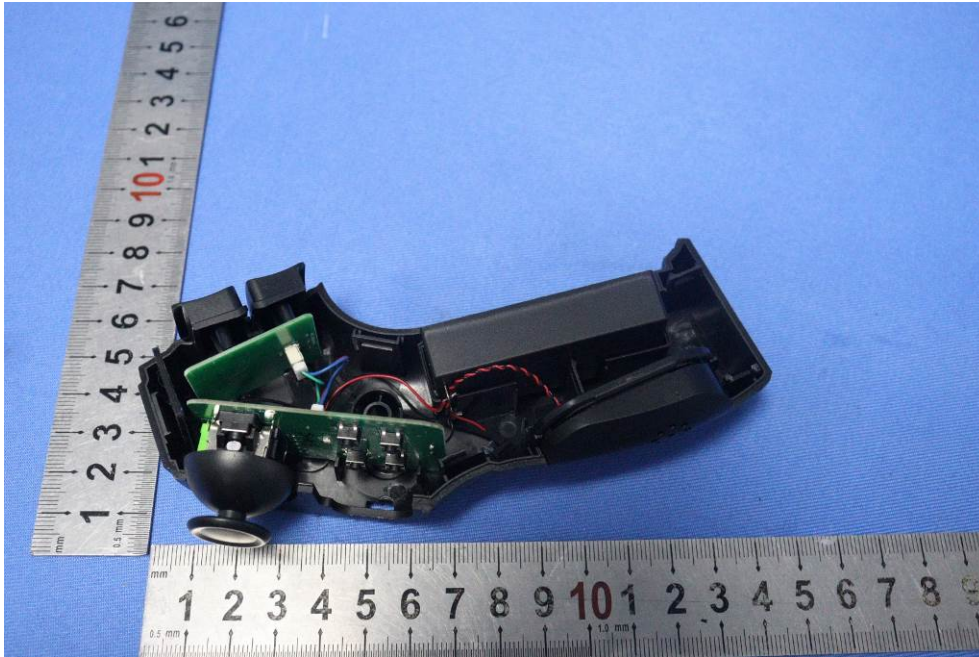


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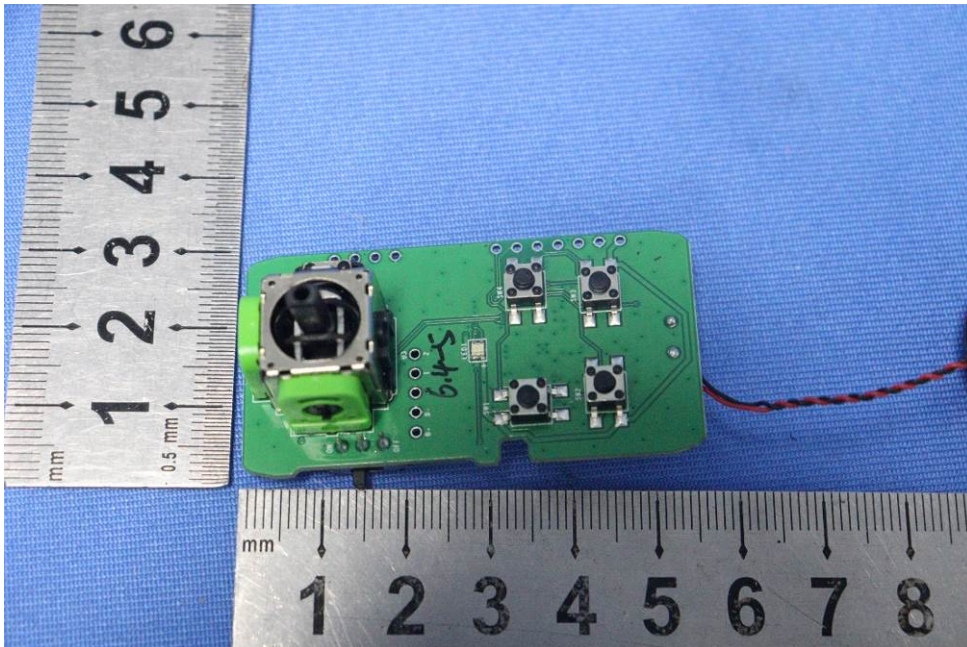
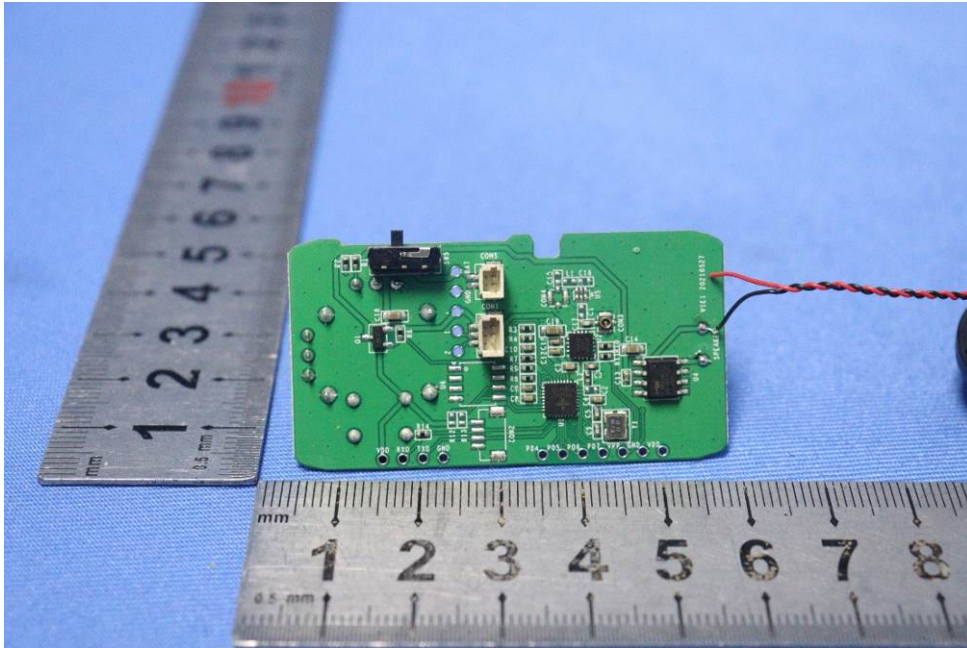




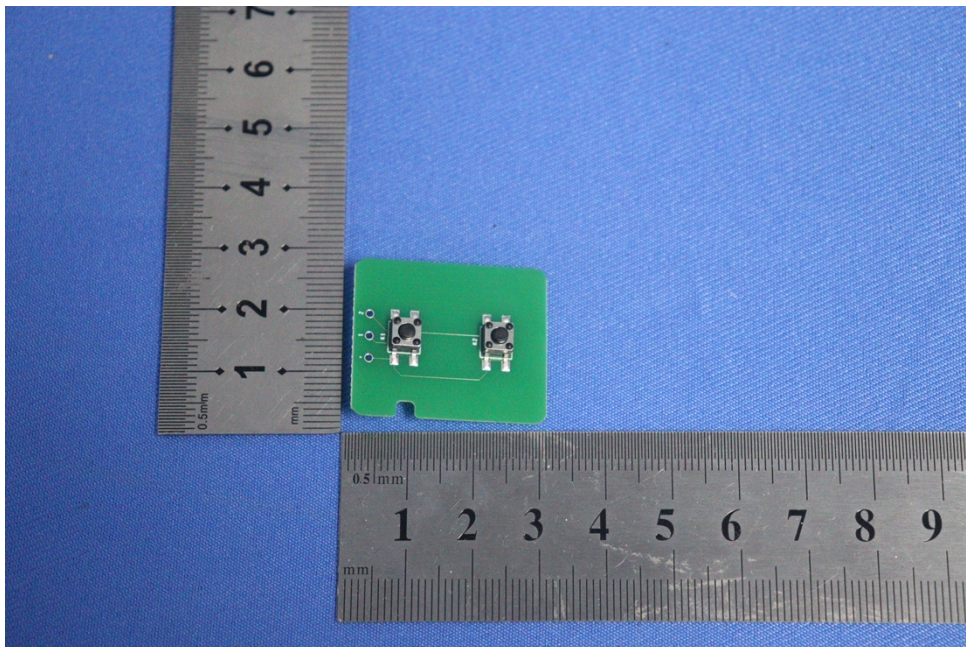
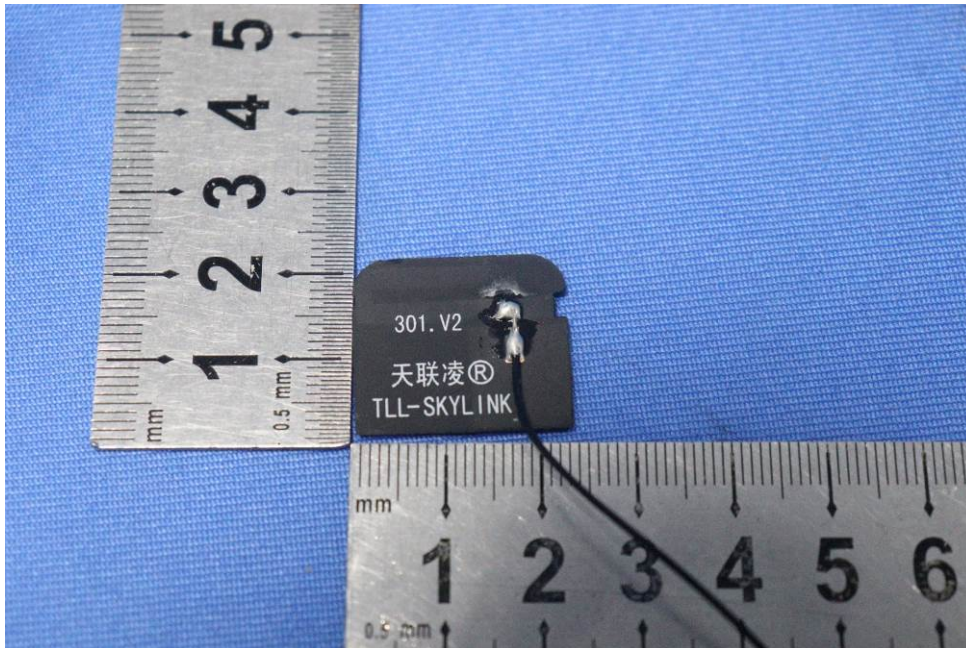


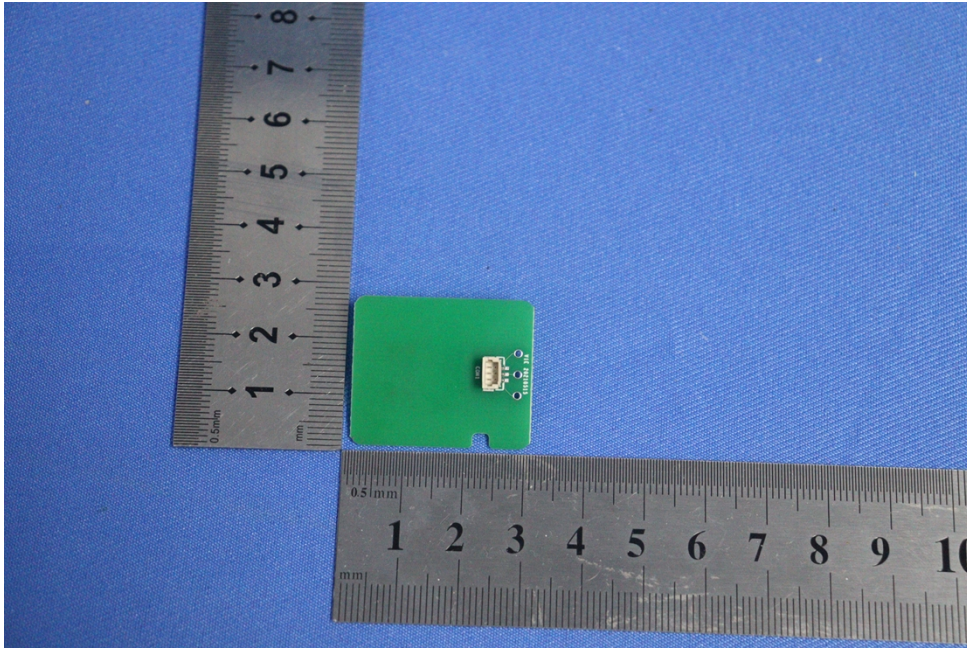


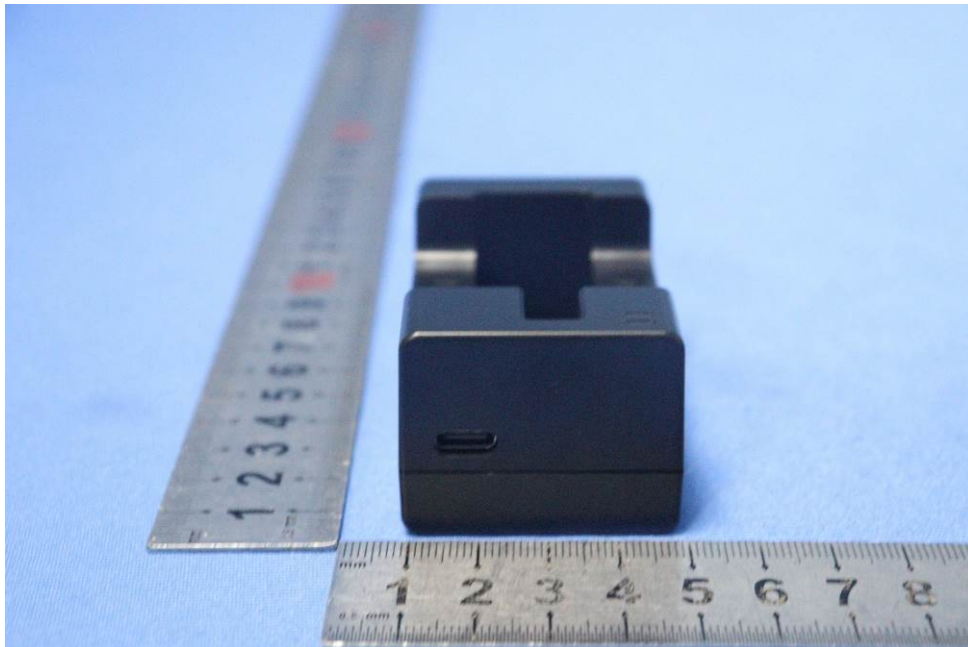
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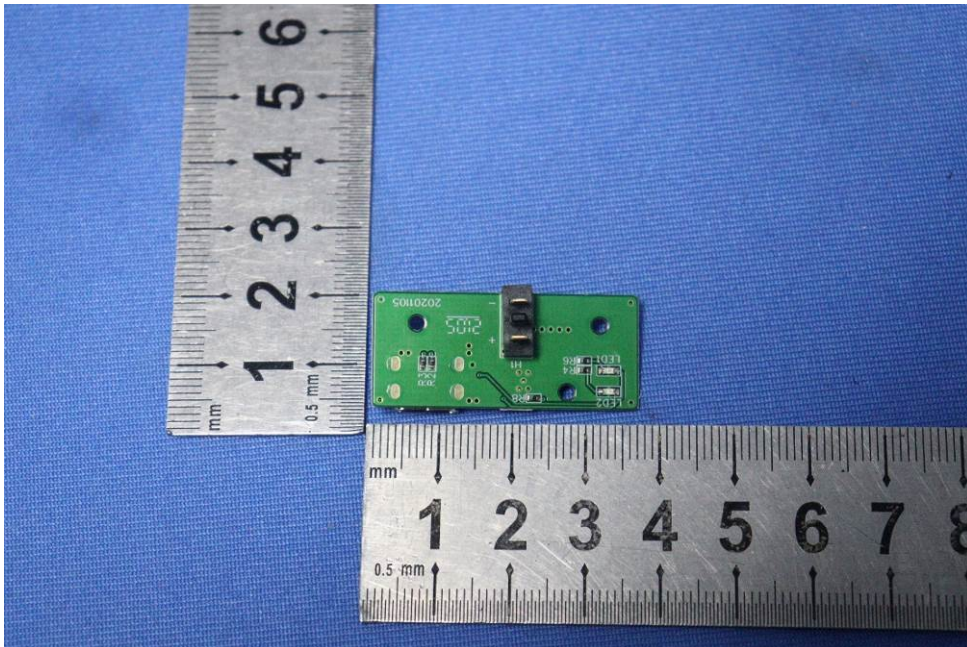
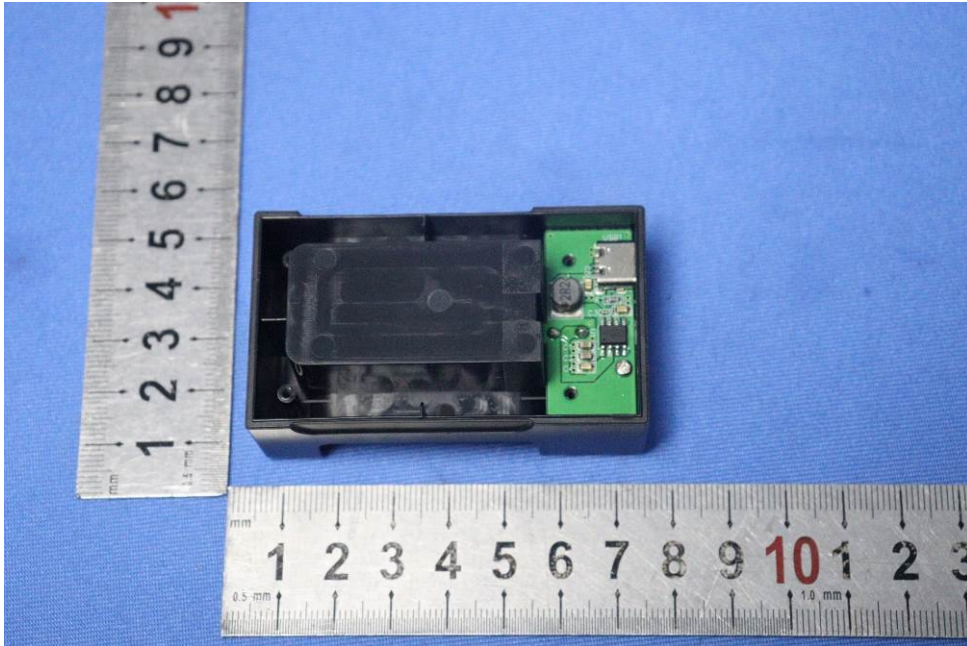
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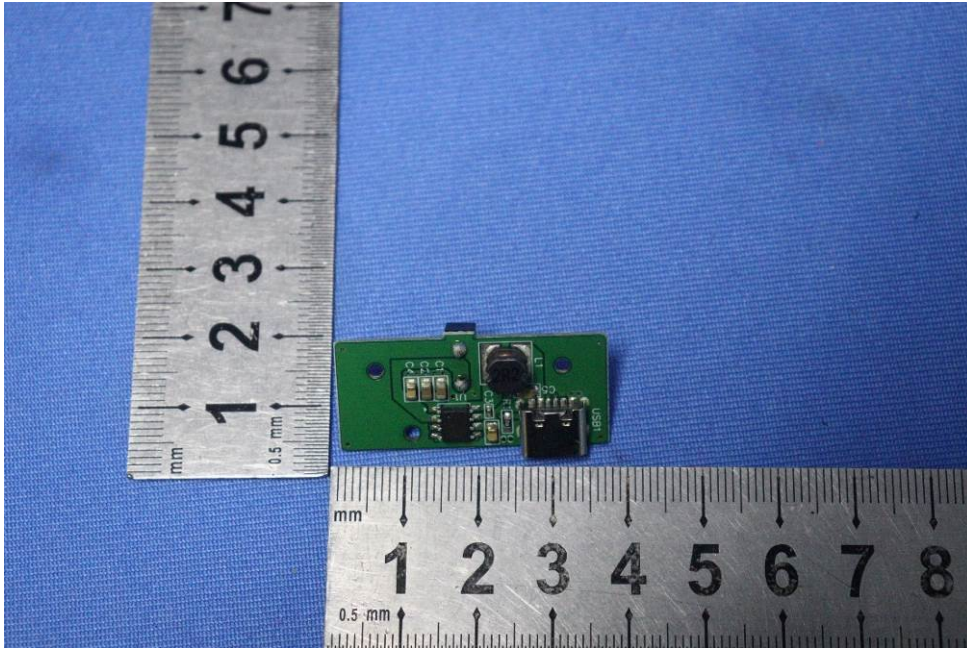






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- End of the Report -