

TEST REPORT

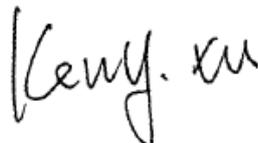
Application No.: SZEM2209006693AT
Applicant: Voxx Accessories Corp.
Address of Applicant: 3502 Woodview Trace, Suite 220, Indianapolis, IN 46268
Manufacturer: Voxx Accessories Corp.
Address of Manufacturer: 3502 Woodview Trace, Suite 220, Indianapolis, IN 46268
Factory: Shenzhen Great Power Innovation and Technology Enterprise Co., Ltd
Address of Factory: No. 331, No. 335, Guiyue Road, Dafu Community, Guanlan Street, Longhua District, Shenzhen, China

Equipment Under Test (EUT):
EUT Name: Soothing Projector
Model No.: PNCP100
Trade Mark: Project Nursery
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2022-09-15
Date of Test: 2022-09-15
Date of Issue: 2022-09-19

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		2022-09-19		Original

Authorized for issue by:			
			
		Charlie Dai/Project Engineer	
			
		Eric Fu/Reviewer	



2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	15.109(a);Class B	Pass

	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 4.5V (3*1.5V "AA" Size Batteries).
Internal Source:	Less than 108MHz

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
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The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions (30MHz-1GHz)	± 5.5dB

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI 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

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	2021-10-21	2022-10-20
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2022-03-22	2023-03-21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2022-03-28	2023-03-27



6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

FREQUENCY (MHz)	dBµV/m (At 10m)	dBµV/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

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C

Humidity: 45.2 % RH

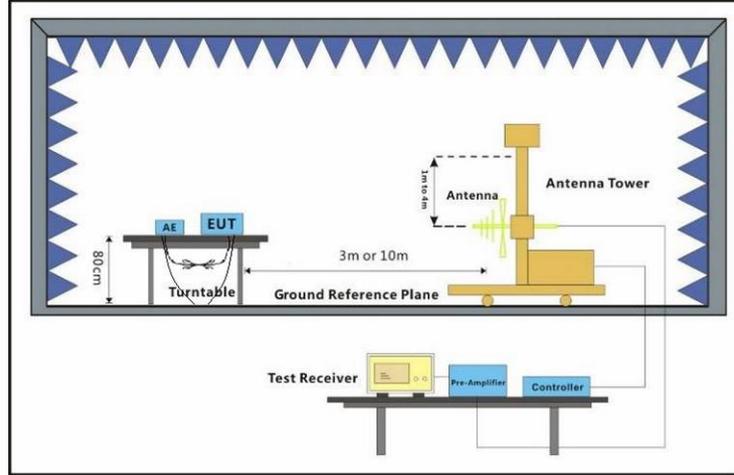
Atmospheric Pressure: 1015 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Normal working: Keep the EUT playing music, light on, playing projection.



6.1.3 Test Setup Diagram



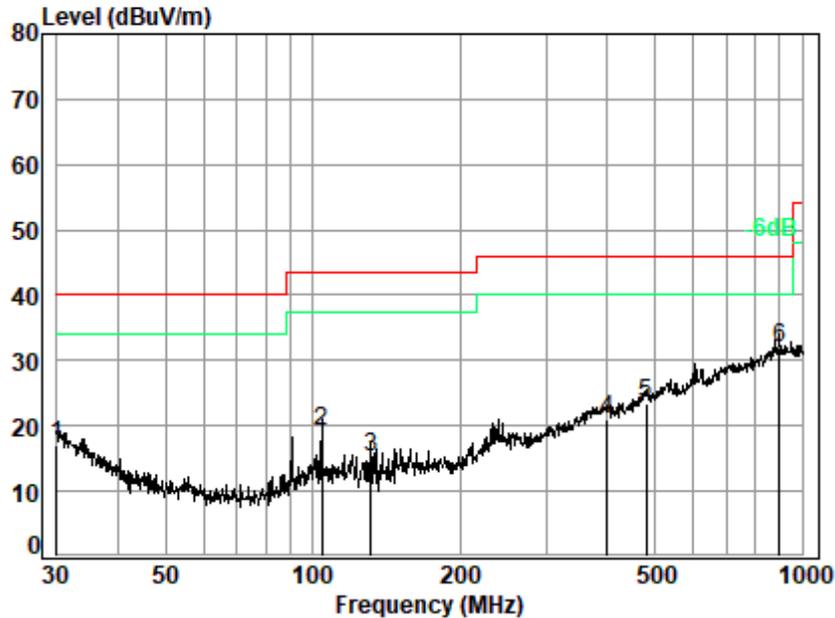
6.1.4 Measurement Procedure and Data

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

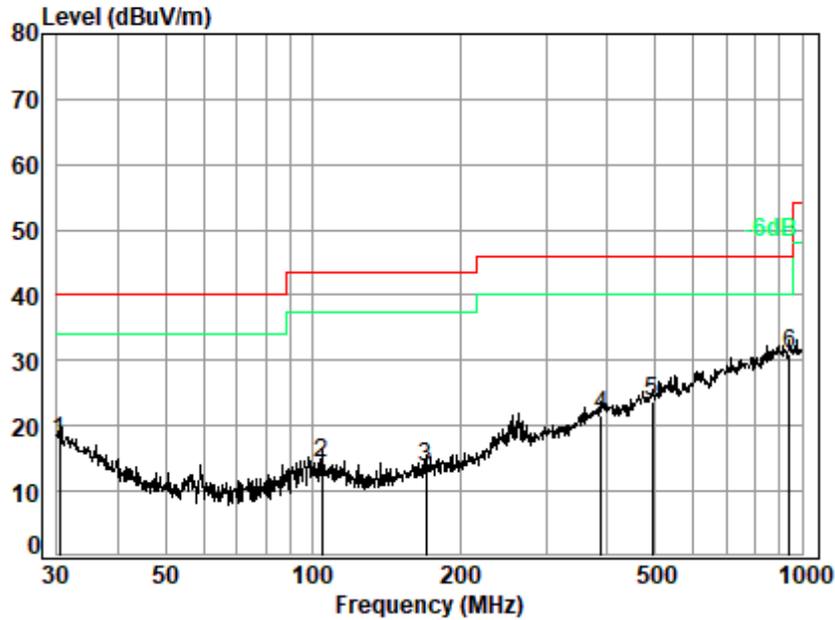


Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 06693AT
 Test Mode: 00

	Ant	Cable	Preamp	Read	Limit	Over		
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.00	21.47	0.63	27.23	22.23	17.10	40.00	-22.90 QP
2	104.17	12.96	1.16	26.98	31.96	19.10	43.50	-24.40 QP
3	131.76	11.70	1.31	26.87	29.16	15.30	43.50	-28.20 QP
4	400.43	21.59	2.48	26.50	23.52	21.09	46.00	-24.91 QP
5	480.53	23.19	2.75	26.74	24.28	23.48	46.00	-22.52 QP
6 q	900.15	28.74	4.03	25.90	25.05	31.92	46.00	-14.08 QP



Test Mode: 00; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : 06693AT
 Test Mode: 00

	Ant	Cable	Preamp	Read	Limit	Over		
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.32	21.27	0.63	27.23	23.12	17.79	40.00	-22.21 QP
2	104.17	12.96	1.16	26.98	27.14	14.28	43.50	-29.22 QP
3	170.19	14.14	1.53	26.72	24.69	13.64	43.50	-29.86 QP
4	389.35	21.40	2.44	26.47	24.21	21.58	46.00	-24.42 QP
5	494.20	22.95	2.79	26.78	24.67	23.63	46.00	-22.37 QP
6 q	942.13	28.67	4.13	25.73	24.04	31.11	46.00	-14.89 QP



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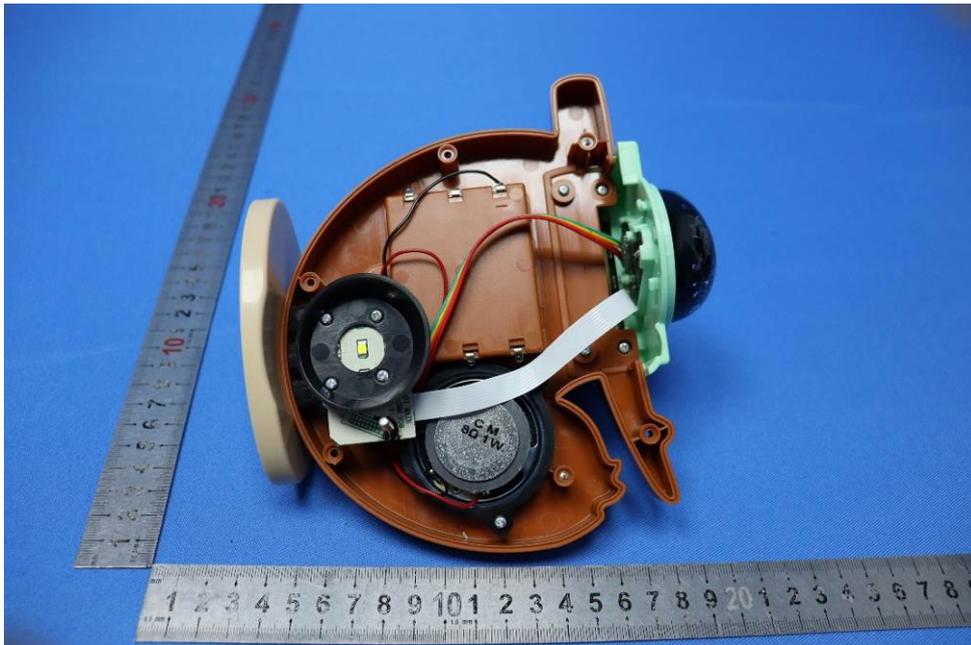
7 Test Setup Photo

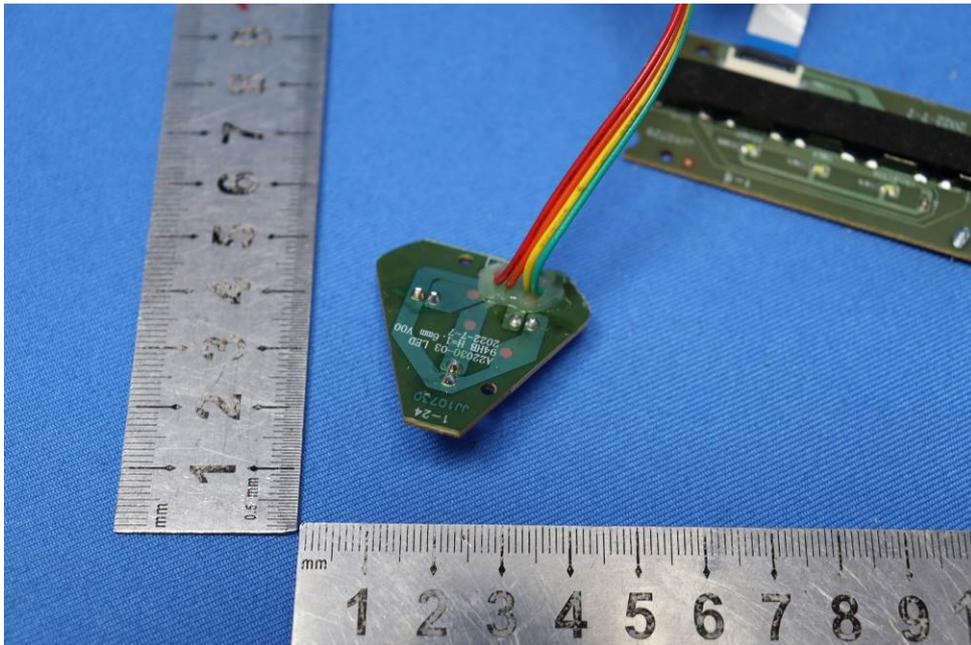
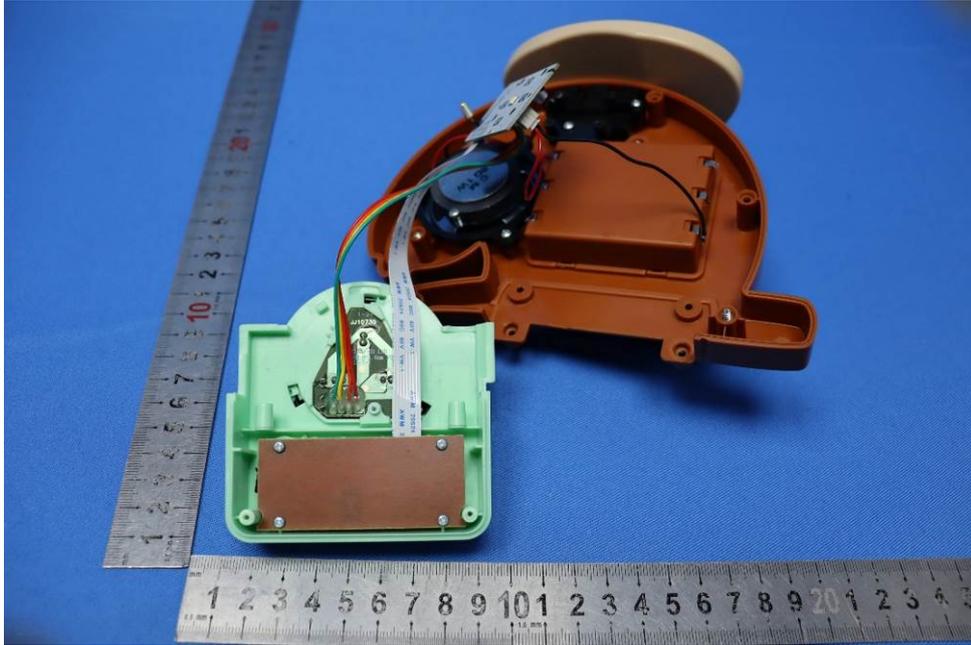
Radiated Emissions (30MHz-1GHz)

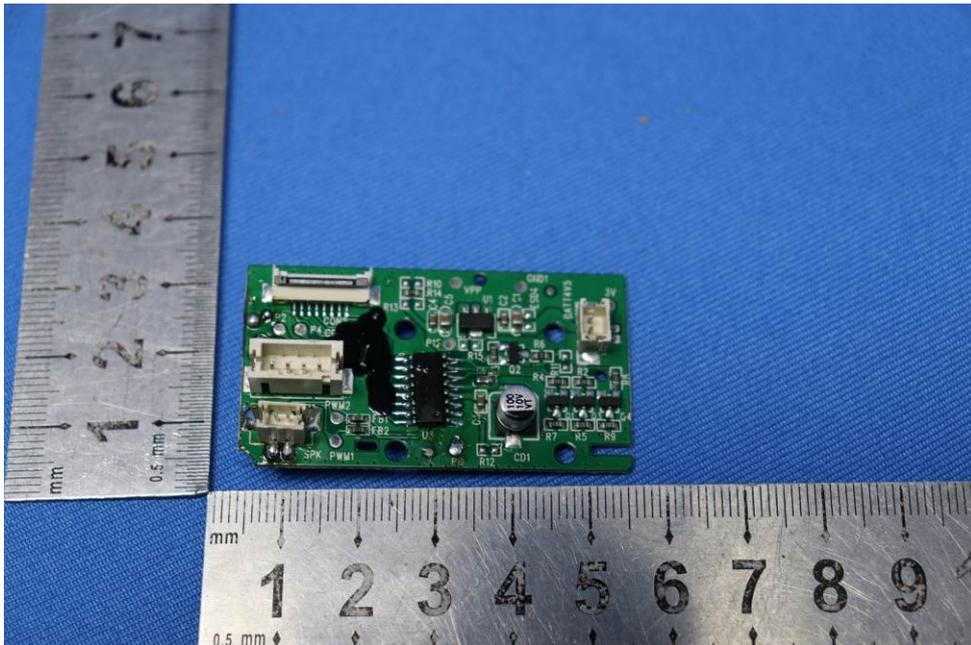
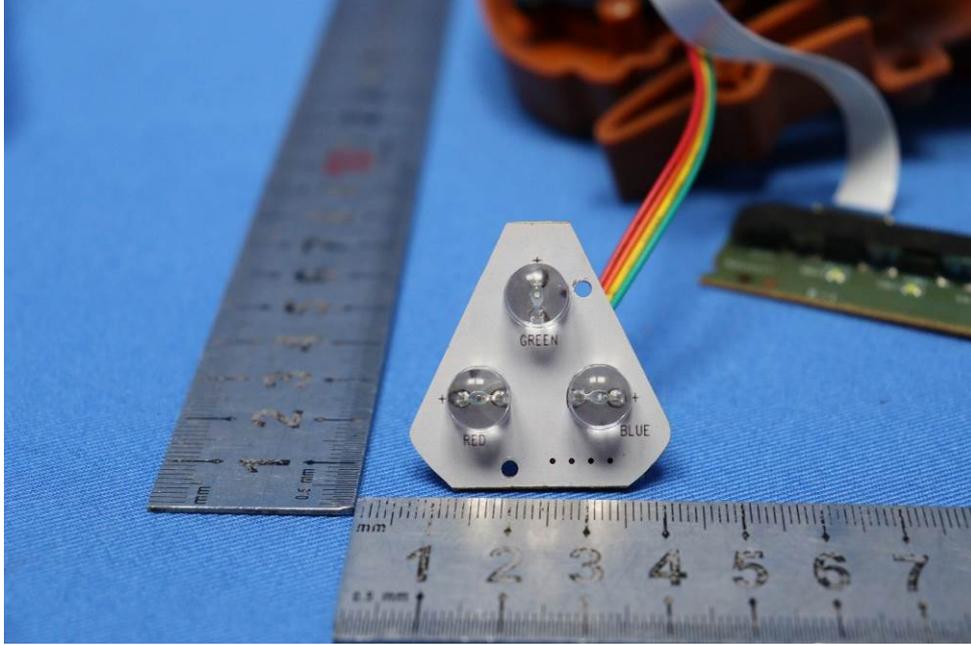


8 EUT Construnctional Details (EUT Photos)





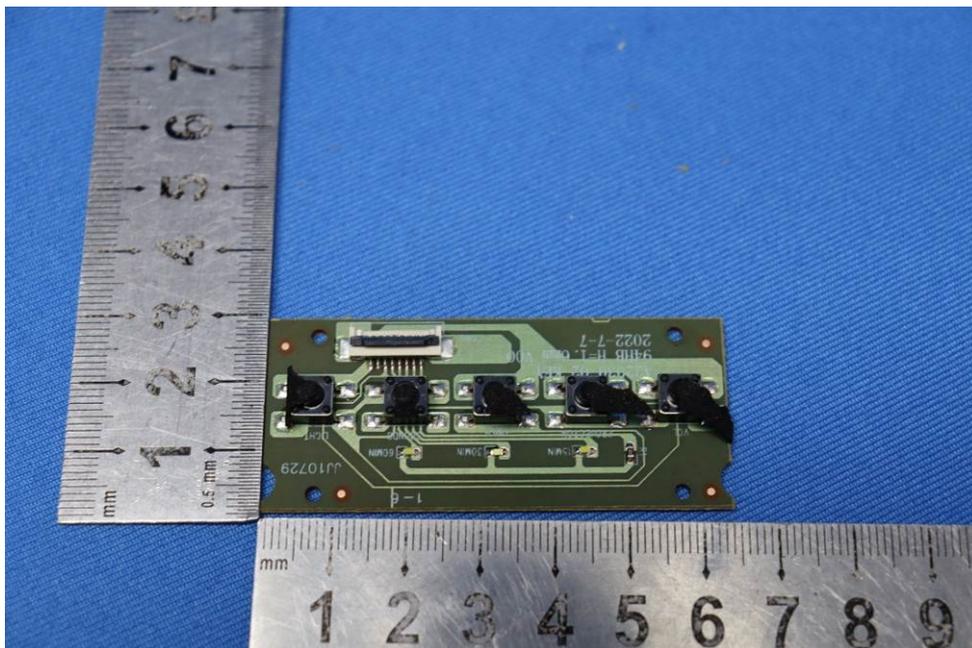
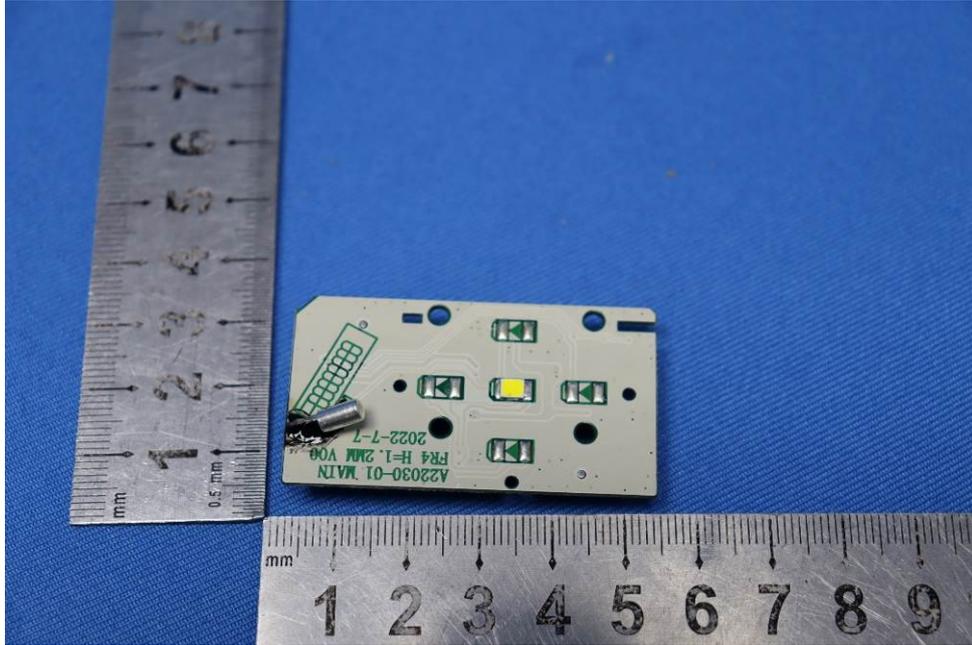


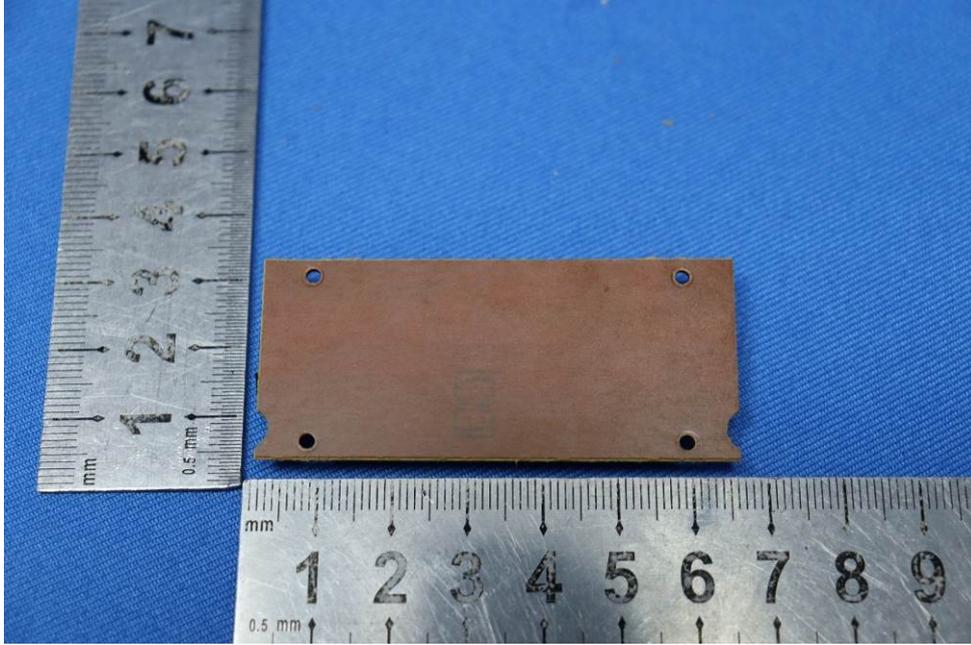


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- End of the Report -

