



Report No.: TW2201225E

File Reference No.: 2022-01-24

Applicant: Sunrise Electronic Technology Co., Ltd

Product: Protector cutter

Trademark: SKYCUT

Model No.: Mini 8, Mini 9, Mini 10, Mini 11, Mini 12, Mini 13, Mini 14, Mini 15, Mini 16, Mini 17, Mini 18, Mini 19, Mini 20

Test Standards: FCC Part 15 Subpart C

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By

A handwritten signature in black ink that reads "Terry Tang".

Terry Tang

Manager

Dated: January 24, 2022

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES.**

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,  
Tong Le Village, Nanshan District, Shenzhen, China**

Tel (755) 83448688

Fax (755) 83442996

Email: [info@timeway-lab.com](mailto:info@timeway-lab.com)



### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

#### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

#### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01



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## 1.0 General Details

### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China  
Telephone: (755) 83448688  
Fax: (755) 83442996

### 1.2 Applicant Details

Applicant: Sunrise Electronic Technology Co., Ltd  
Address: Building C, XinHang Technology Park, No. 229, Qingshui Road, Wulian Community, Longgang Street, Longgang District, Shenzhen  
Telephone: 17727458939  
Fax: --

### 1.3 Description of EUT

Product: Protector cutter  
Manufacturer: SHENZHEN JINGWEIXIAN TECHNOLOGY CO.,LTD  
Address: Building C, XinHang Technology Park, No. 229, Qingshui Road, Wulian Community, Longgang Street, Longgang District, Shenzhen  
Trademark: SKYCUT  
Basic Model Mini 8  
Additional Model: Mini 9, Mini 10, Mini 11, Mini 12, Mini 13, Mini 14, Mini 15, Mini 16, Mini 17, Mini 18, Mini 19, Mini 20  
Rating: Input: DC24V, 2.75A  
Power Supply 1: Model: FJ-SW20172402700; Input: 100-240V~, 50/60Hz, 1.5A Max; Output: DC24V, 2.7A, 64.8W  
Power Supply 2: Model: GM60-240275-F; Input: 100-240V~, 50/60Hz, 2.0A; Output: DC24V, 2.75A, 66W  
EUT has two alternative flash storage:  
Model 1: KLM8G1GETF-B041, produced by Samsung;  
Model 2: EMMC08G-T227, produced by Kingston;

### 1.4 Submitted Sample: 2 Sample

### 1.5 Test Duration

Date of Receipt of Application: January 18, 2022  
Date of Test: January 18, 2022 ~ January 24, 2022

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Note: This is a C2PC test report based original FCC ID: 2AVGR-MINI8MINI9. Alternative power supply and flash storage are added. The other parts remain the same.

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

### 1.7 Test Engineer

The sample tested by

Print Name: Leo Lau

## 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2021.06.18	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2021.06.18	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2021.06.18	1 Year
LISN	ESH3-Z5	100294	RS	2021.06.18	1 Year
LISN	NNB42	00012	SCHAFFNER	2022.01.05	1 Year

### 2.2 Radiated electromagnetic disturbance test

Name	Model No	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESPI 3	100379	RS	2021.06.18	1 Year
Spectrum Analyzer	E4407B	MY50441392	HP/Agilent	2021.06.18	1 Year
Amplifier	BBV9743	#218	HP/Agilent	2021.06.18	1 Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2021.07.02	3 Year
Horn Antenna	BBHA 9120D	9120D-631	RS	2021.07.02	3 Year
Amplifier	8449B	3008A00160	HP/Agilent	2021.06.18	1 Year

### 2.3 Auxiliary Equipment

Device	Manufacturer	Model	Rating
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### 3.0 Technical Details

#### 3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

#### 3.2 Test Standards

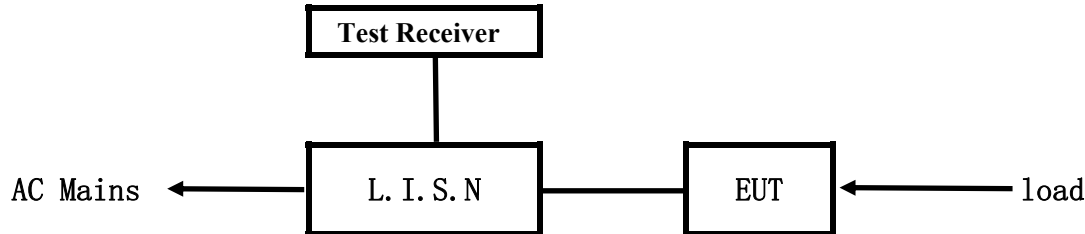
**FCC Part 15 Subpart C, 15.247**

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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test



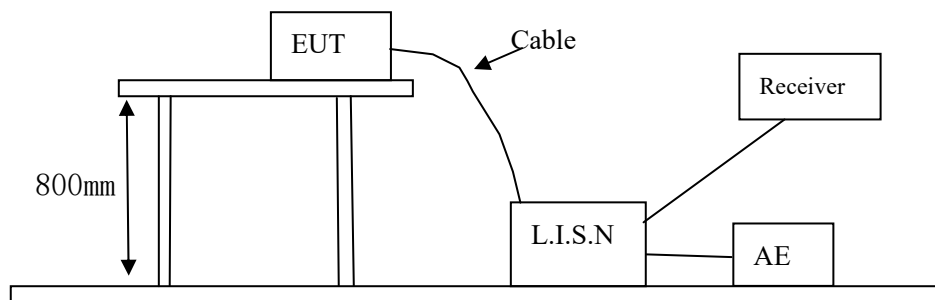
EUT: Equipment Under Test

##### 4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



##### 4.3 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes:
1. \*decreasing linearly with logarithm of frequency.
  2. The tighter limit shall apply at the transition frequencies

##### 4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

**Note: Two power supplies and Flash storages were tested. In the test report, only the worst case was recorded.**

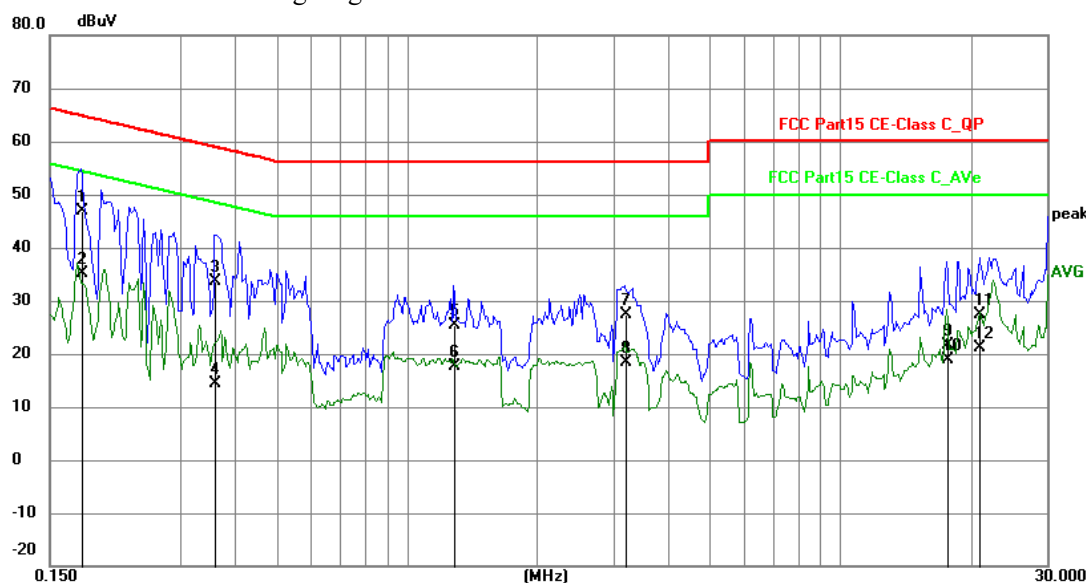
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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)****EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep WIFI Transmitting****Power Supply: GM60-240275-F, Flash: KLM8G1GETF-B041****Equipment Level: Class B****Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1773	37.17	9.77	46.94	64.61	-17.67	QP	P
2	0.1773	25.47	9.77	35.24	54.61	-19.37	AVG	P
3	0.3605	23.75	9.76	33.51	58.72	-25.21	QP	P
4	0.3605	4.61	9.76	14.37	48.72	-34.35	AVG	P
5	1.2849	15.51	9.79	25.30	56.00	-30.70	QP	P
6	1.2849	7.94	9.79	17.73	46.00	-28.27	AVG	P
7	3.1910	17.43	9.85	27.28	56.00	-28.72	QP	P
8	3.1910	8.52	9.85	18.37	46.00	-27.63	AVG	P
9	17.5704	11.05	10.53	21.58	60.00	-38.42	QP	P
10	17.5704	8.29	10.53	18.82	50.00	-31.18	AVG	P
11	20.9829	16.73	10.74	27.47	60.00	-32.53	QP	P
12	20.9829	10.47	10.74	21.21	50.00	-28.79	AVG	P

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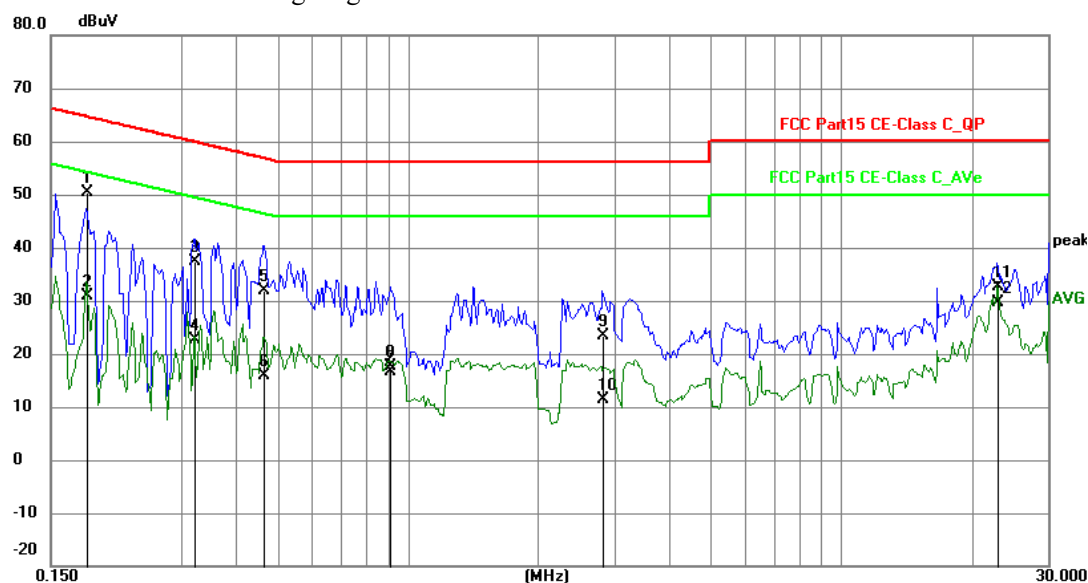


**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)****EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep WIFI Transmitting****Power Supply: GM60-240275-F, Flash: KLM8G1GETF-B041****Equipment Level: Class B****Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1812	40.65	9.76	50.41	64.43	-14.02	QP	P
2	0.1812	21.15	9.76	30.91	54.43	-23.52	AVG	P
3	0.3215	27.74	9.76	37.50	59.67	-22.17	QP	P
4	0.3215	12.92	9.76	22.68	49.67	-26.99	AVG	P
5	0.4659	22.02	9.77	31.79	56.59	-24.80	QP	P
6	0.4659	6.19	9.77	15.96	46.59	-30.63	AVG	P
7	0.9105	6.95	9.79	16.74	56.00	-39.26	QP	P
8	0.9105	7.77	9.79	17.56	46.00	-28.44	AVG	P
9	2.8098	13.52	9.84	23.36	56.00	-32.64	QP	P
10	2.8098	1.43	9.84	11.27	46.00	-34.73	AVG	P
11	22.9875	21.88	10.87	32.75	60.00	-27.25	QP	P
12	22.9875	18.82	10.87	29.69	50.00	-20.31	AVG	P

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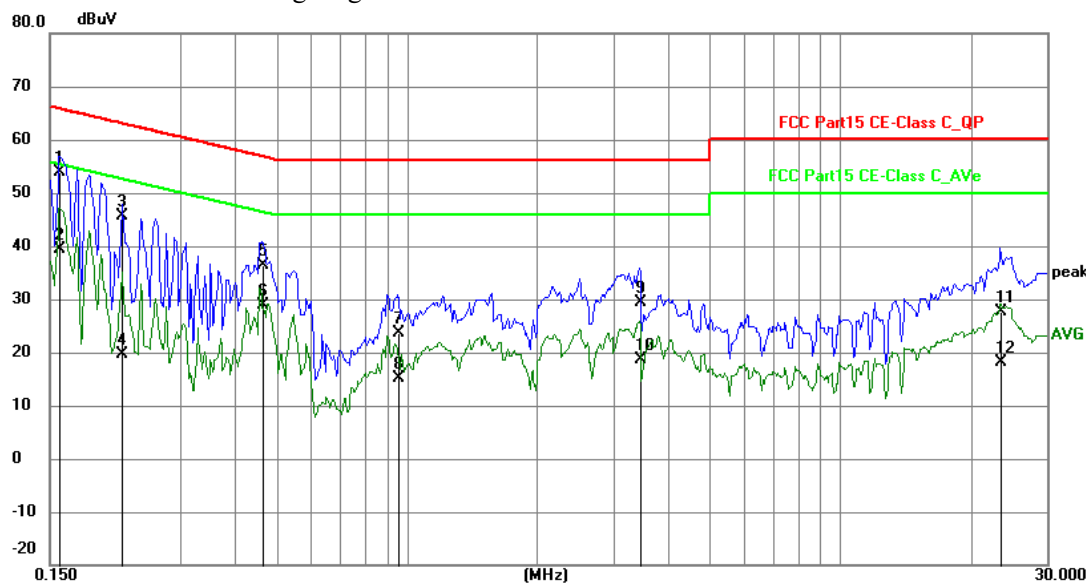
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**C: Conducted Emission on Live Terminal (150kHz to 30MHz)****EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep BT Transmitting****Power Supply: GM60-240275-F, Flash: KLM8G1GETF-B041****Equipment Level: Class B****Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1578	44.09	9.78	53.87	65.58	-11.71	QP	P
2	0.1578	29.68	9.78	39.46	55.58	-16.12	AVG	P
3	0.2202	35.83	9.75	45.58	62.81	-17.23	QP	P
4	0.2202	9.81	9.75	19.56	52.81	-33.25	AVG	P
5	0.4659	26.62	9.77	36.39	56.59	-20.20	QP	P
6	0.4659	19.04	9.77	28.81	46.59	-17.78	AVG	P
7	0.9573	13.81	9.79	23.60	56.00	-32.40	QP	P
8	0.9573	5.27	9.79	15.06	46.00	-30.94	AVG	P
9	3.4524	19.43	9.86	29.29	56.00	-26.71	QP	P
10	3.4524	8.69	9.86	18.55	46.00	-27.45	AVG	P
11	23.4087	16.68	10.89	27.57	60.00	-32.43	QP	P
12	23.4087	7.33	10.89	18.22	50.00	-31.78	AVG	P

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**D: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

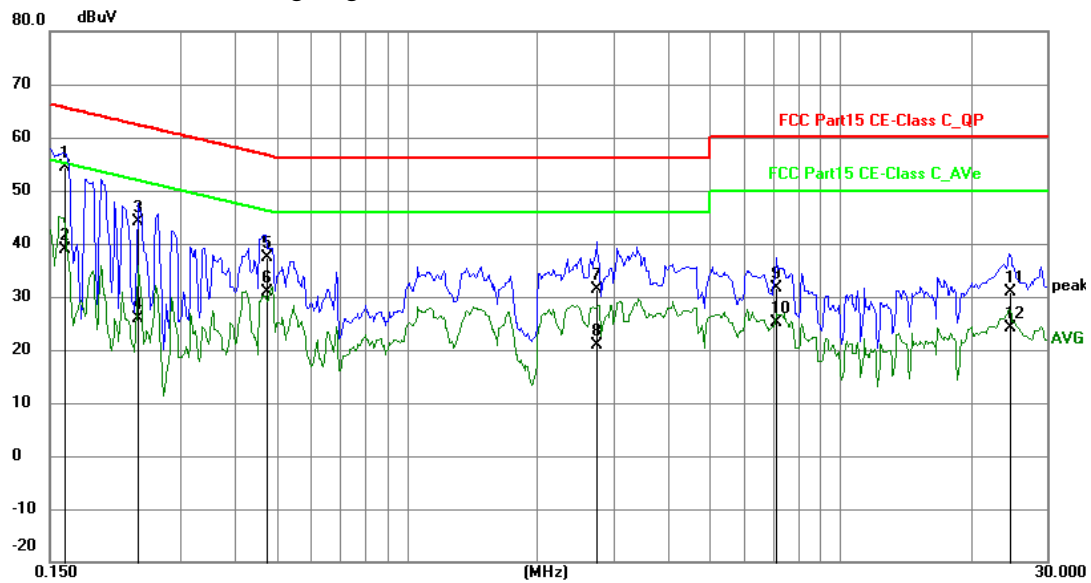
**EUT set Condition: Keep BT Transmitting**

**Power Supply: GM60-240275-F, Flash: KLM8G1GETF-B041**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	44.59	9.78	54.37	65.38	-11.01	QP	P
2	0.1617	29.09	9.78	38.87	55.38	-16.51	AVG	P
3	0.2397	34.41	9.75	44.16	62.11	-17.95	QP	P
4	0.2397	16.02	9.75	25.77	52.11	-26.34	AVG	P
5	0.4737	27.54	9.77	37.31	56.45	-19.14	QP	P
6	0.4737	21.15	9.77	30.92	46.45	-15.53	AVG	P
7	2.7357	21.49	9.83	31.32	56.00	-24.68	QP	P
8	2.7357	10.99	9.83	20.82	46.00	-25.18	AVG	P
9	7.1340	21.57	10.02	31.59	60.00	-28.41	QP	P
10	7.1340	15.09	10.02	25.11	50.00	-24.89	AVG	P
11	24.5982	19.84	10.96	30.80	60.00	-29.20	QP	P
12	24.5982	13.29	10.96	24.25	50.00	-25.75	AVG	P

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**E: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

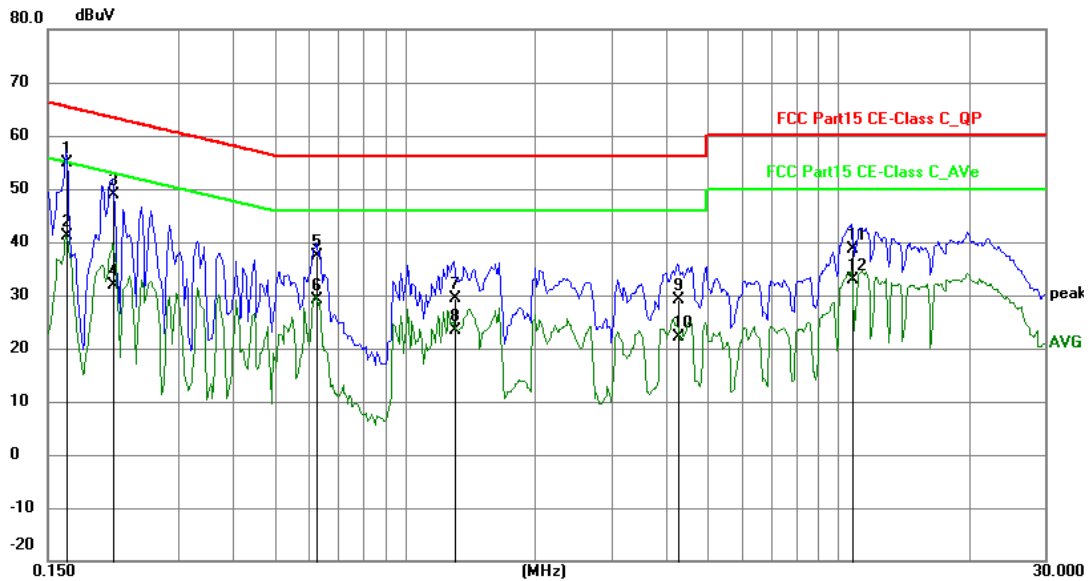
**EUT set Condition: Keep BT Transmitting**

**Power Supply: FJ-SW20172402700, Flash: KLM8G1GETF-B041**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1655	45.04	9.77	54.81	65.18	-10.37	QP	P
2	0.1655	31.36	9.77	41.13	55.18	-14.05	AVG	P
3	0.2124	39.03	9.75	48.78	63.11	-14.33	QP	P
4	0.2124	22.17	9.75	31.92	53.11	-21.19	AVG	P
5	0.6258	27.54	9.78	37.32	56.00	-18.68	QP	P
6	0.6258	19.33	9.78	29.11	46.00	-16.89	AVG	P
7	1.2966	19.70	9.79	29.49	56.00	-26.51	QP	P
8	1.2966	13.49	9.79	23.28	46.00	-22.72	AVG	P
9	4.2597	19.13	9.90	29.03	56.00	-26.97	QP	P
10	4.2597	12.11	9.90	22.01	46.00	-23.99	AVG	P
11	10.7454	28.44	10.19	38.63	60.00	-21.37	QP	P
12	10.7454	22.60	10.19	32.79	50.00	-17.21	AVG	P

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**F: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

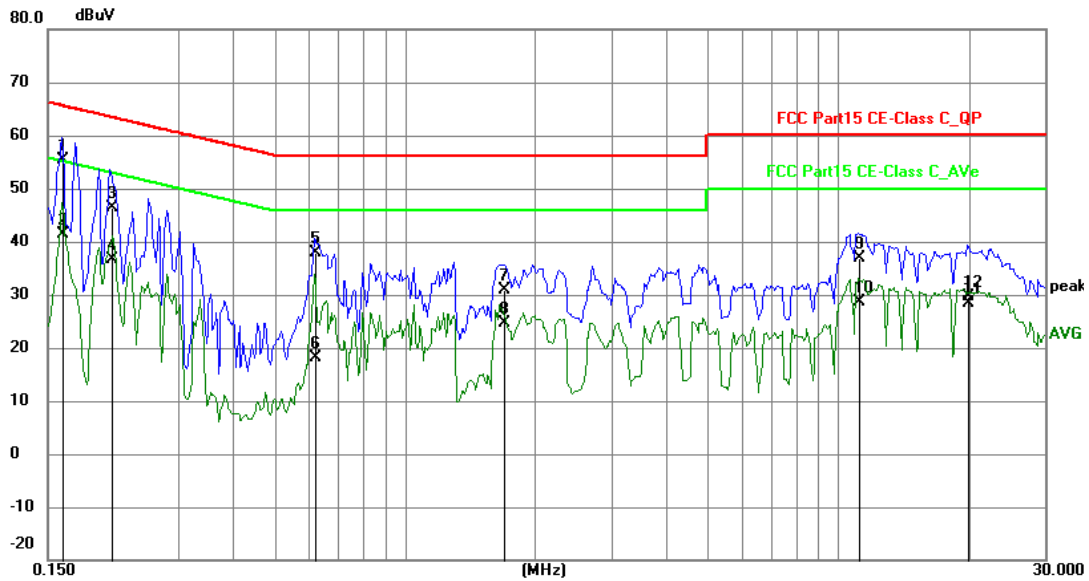
**EUT set Condition: Keep BT Transmitting**

**Power Supply: FJ-SW20172402700, Flash: KLM8G1GETF-B041**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	45.65	9.78	55.43	65.38	-9.95	QP	P
2	0.1617	31.65	9.78	41.43	55.38	-13.95	AVG	P
3	0.2106	36.56	9.75	46.31	63.18	-16.87	QP	P
4	0.2106	26.97	9.75	36.72	53.18	-16.46	AVG	P
5	0.6180	28.07	9.78	37.85	56.00	-18.15	QP	P
6	0.6180	8.23	9.78	18.01	46.00	-27.99	AVG	P
7	1.6944	21.12	9.80	30.92	56.00	-25.08	QP	P
8	1.6944	14.71	9.80	24.51	46.00	-21.49	AVG	P
9	11.1471	26.57	10.21	36.78	60.00	-23.22	QP	P
10	11.1471	18.35	10.21	28.56	50.00	-21.44	AVG	P
11	19.9143	17.79	10.67	28.46	60.00	-31.54	QP	P
12	19.9143	18.90	10.67	29.57	50.00	-20.43	AVG	P

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**G: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

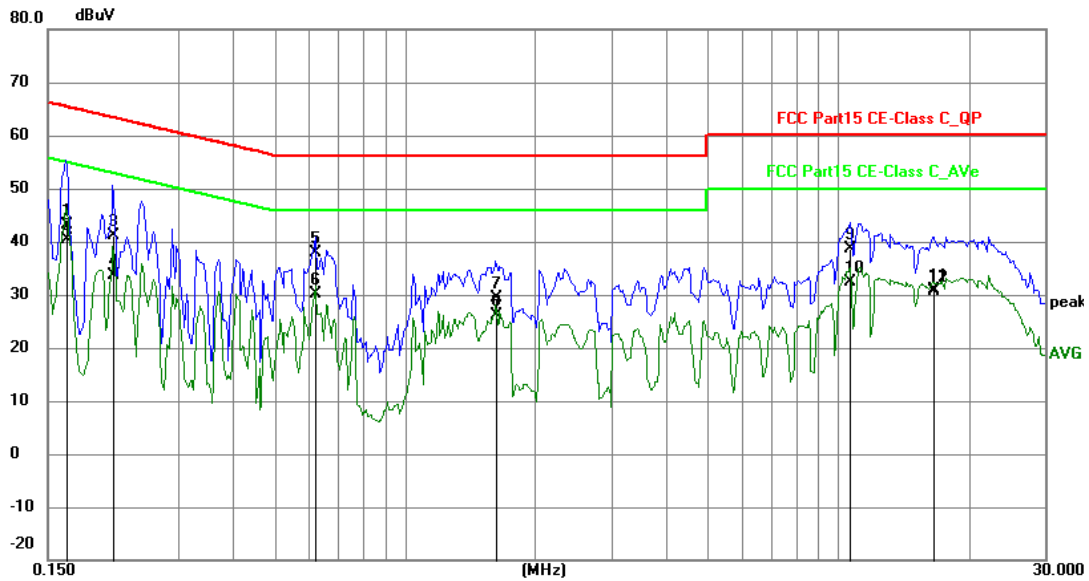
**EUT set Condition: Keep WIFI Transmitting**

**Power Supply: FJ-SW20172402700, Flash: KLM8G1GETF-B041**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1655	33.35	9.77	43.12	65.18	-22.06	QP	P
2	0.1655	30.67	9.77	40.44	55.18	-14.74	AVG	P
3	0.2124	31.41	9.75	41.16	63.11	-21.95	QP	P
4	0.2124	23.78	9.75	33.53	53.11	-19.58	AVG	P
5	0.6219	28.17	9.78	37.95	56.00	-18.05	QP	P
6	0.6219	20.40	9.78	30.18	46.00	-15.82	AVG	P
7	1.6203	19.47	9.80	29.27	56.00	-26.73	QP	P
8	1.6203	16.31	9.80	26.11	46.00	-19.89	AVG	P
9	10.6440	28.52	10.19	38.71	60.00	-21.29	QP	P
10	10.6440	22.16	10.19	32.35	50.00	-17.65	AVG	P
11	16.5525	20.43	10.47	30.90	60.00	-29.10	QP	P
12	16.5525	20.22	10.47	30.69	50.00	-19.31	AVG	P

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**H: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

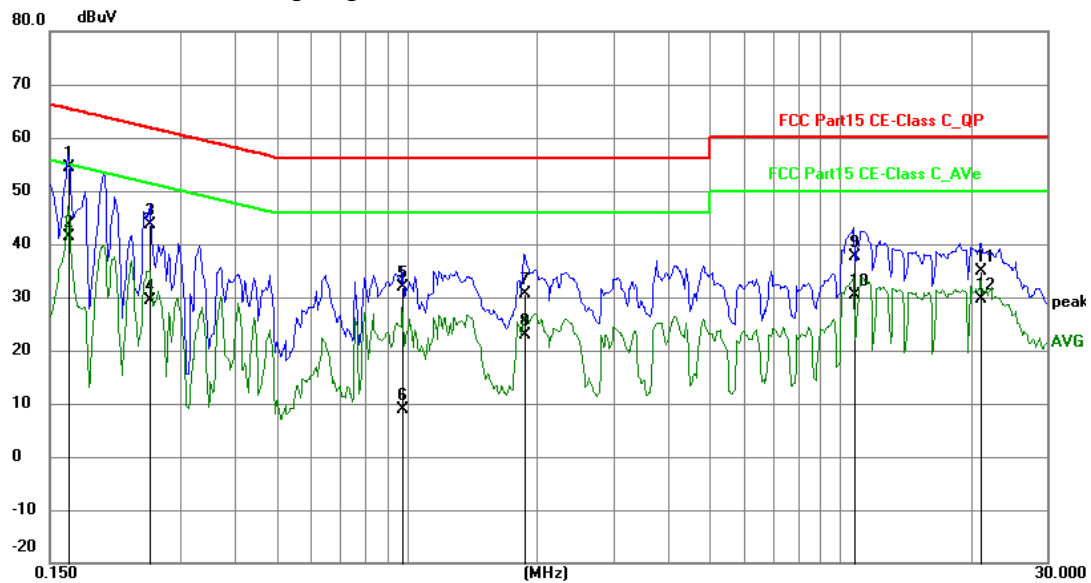
**EUT set Condition: Keep WIFI Transmitting**

**Power Supply: FJ-SW20172402700, Flash: KLM8G1GETF-B041**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1655	44.69	9.77	54.46	65.18	-10.72	QP	P
2	0.1655	31.58	9.77	41.35	55.18	-13.83	AVG	P
3	0.2553	33.80	9.75	43.55	61.58	-18.03	QP	P
4	0.2553	19.54	9.75	29.29	51.58	-22.29	AVG	P
5	0.9768	22.18	9.79	31.97	56.00	-24.03	QP	P
6	0.9768	-0.94	9.79	8.85	46.00	-37.15	AVG	P
7	1.8660	20.75	9.80	30.55	56.00	-25.45	QP	P
8	1.8660	13.12	9.80	22.92	46.00	-23.08	AVG	P
9	10.7649	27.32	10.19	37.51	60.00	-22.49	QP	P
10	10.7649	20.08	10.19	30.27	50.00	-19.73	AVG	P
11	21.1428	24.01	10.75	34.76	60.00	-25.24	QP	P
12	21.1428	18.97	10.75	29.72	50.00	-20.28	AVG	P

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## 5.0 Radiated Disturbance Test

### 5.1 Schematics of the test

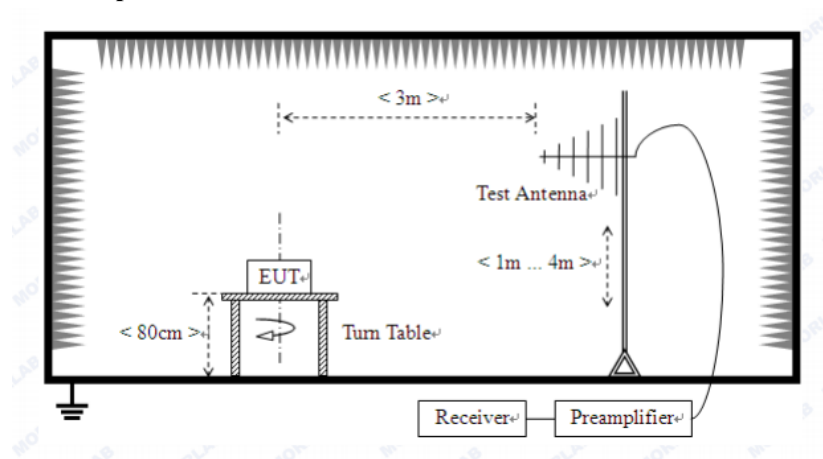


### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10 –2013, The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz.

Test Voltage: 120V~, 60Hz

#### Block diagram of Test setup



### 5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

### 5.4 Test result

The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. Measurements were made at 3 meters.

Note: Two power supplies and Flash storages were tested. In the test report, only the worst case was recorded.

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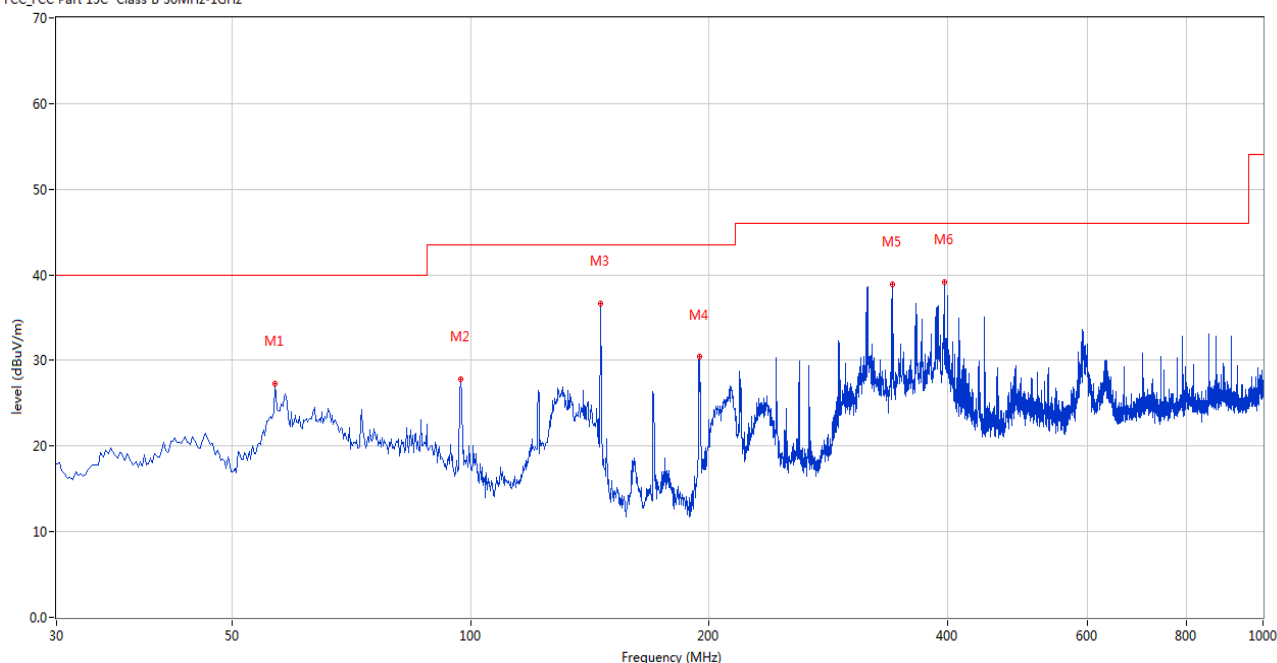




**A: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2022-01-20_14.42.40
EUT Name:	Protector cutter	Test Engineer:	Vincent
Manufacturer:	SHENZHEN JINGWEIXIAN TECHNOLOGY CO.,LTD	Test Standard:	FCC Part 15.209
Model:	Mini 8	Work Addition:	Keep WIFI Transmitting
Temp.(oC):	25	Load:	
Hum.:	65%	Remark:	Power Supply: GM60-240275-F, Flash: KLM8G1GETF-B041

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	56.668	27.33	-12.22	40.0	-12.67	Peak	332.00	200	Horizontal	Pass
2	97.156	27.77	-13.90	43.5	-15.73	Peak	332.00	200	Horizontal	Pass
3	145.644	36.63	-17.31	43.5	-6.87	Peak	118.00	100	Horizontal	Pass
4	194.374	30.39	-13.83	43.5	-13.11	Peak	360.00	200	Horizontal	Pass
5	341.050	38.85	-9.75	46.0	-7.15	Peak	54.00	100	Horizontal	Pass
6	395.841	39.15	-8.70	46.0	-6.85	Peak	138.00	200	Horizontal	Pass

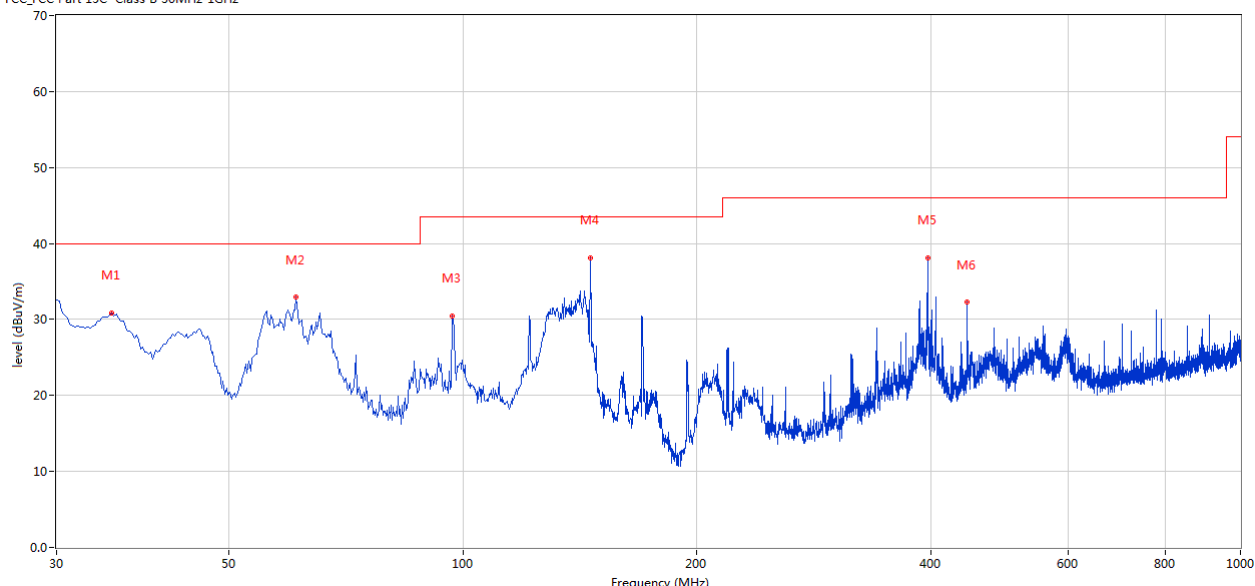
"The report refers only to the sample tested and does not apply to the bulk production.  
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**B: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2022-01-20_14.44.24
EUT Name:	Protector cutter	Test Engineer:	Vincent
Manufacturer:	SHENZHEN JINGWEIXIAN TECHNOLOGY CO.,LTD	Test Standard:	FCC Part 15.209
Model:	Mini 8	Work Addition:	Keep WIFI Transmitting
Temp.(oC):	25	Load:	
Hum.:	65%	Remark:	Power Supply: GM60-240275-F, Flash: KLM8G1GETF-B041

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	35.334	30.82	-13.92	40.0	-9.18	Peak	233.00	100	Vertical	Pass
2	61.032	32.89	-13.10	40.0	-7.11	Peak	6.00	100	Vertical	Pass
3	96.913	30.41	-13.96	43.5	-13.09	Peak	313.00	100	Vertical	Pass
4	145.644	38.05	-17.31	43.5	-5.45	Peak	55.00	100	Vertical	Pass
5	396.083	38.14	-8.72	46.0	-7.86	Peak	360.00	100	Vertical	Pass
6	445.299	32.23	-8.00	46.0	-13.77	Peak	141.00	100	Vertical	Pass

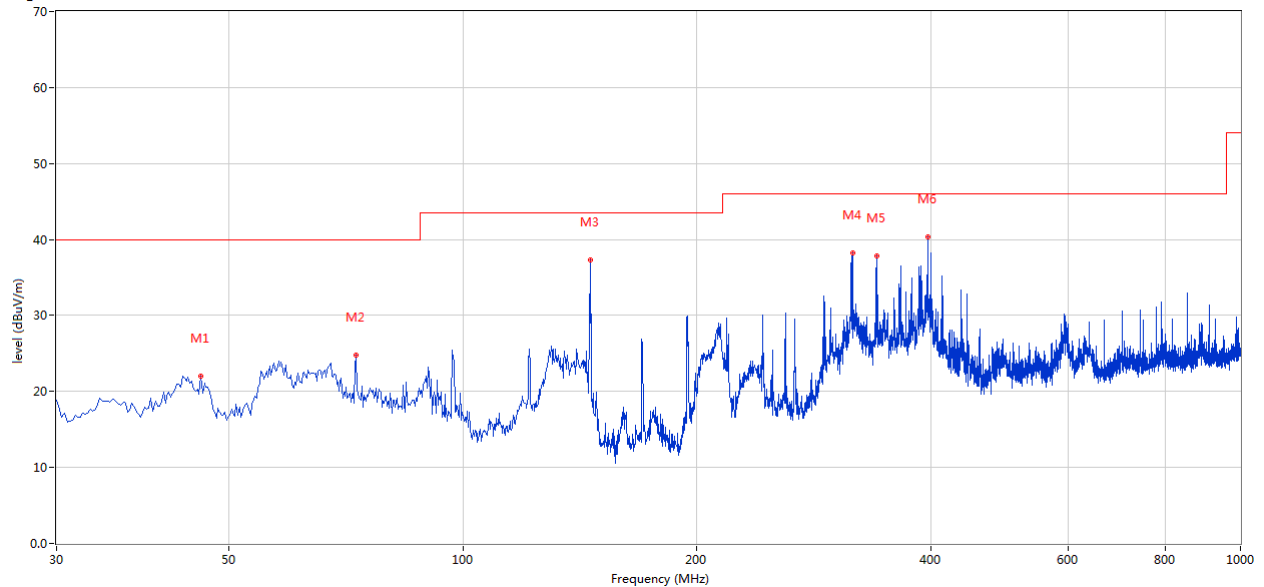
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**C: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2022-01-20_14.46.23
EUT Name:	Protector cutter	Test Engineer:	Vincent
Manufacturer:	SHENZHEN JINGWEIXIAN TECHNOLOGY CO.,LTD	Test Standard:	FCC Part 15.209
Model:	Mini 8	Work Addition:	Keep BT Transmitting
Temp.(oC):	25	Load:	
Hum.:	65%	Remark:	Power Supply: GM60-240275-F, Flash: KLM8G1GETF-B041

FCC\_FCC Part 15C Class B 30MHz-1GHz



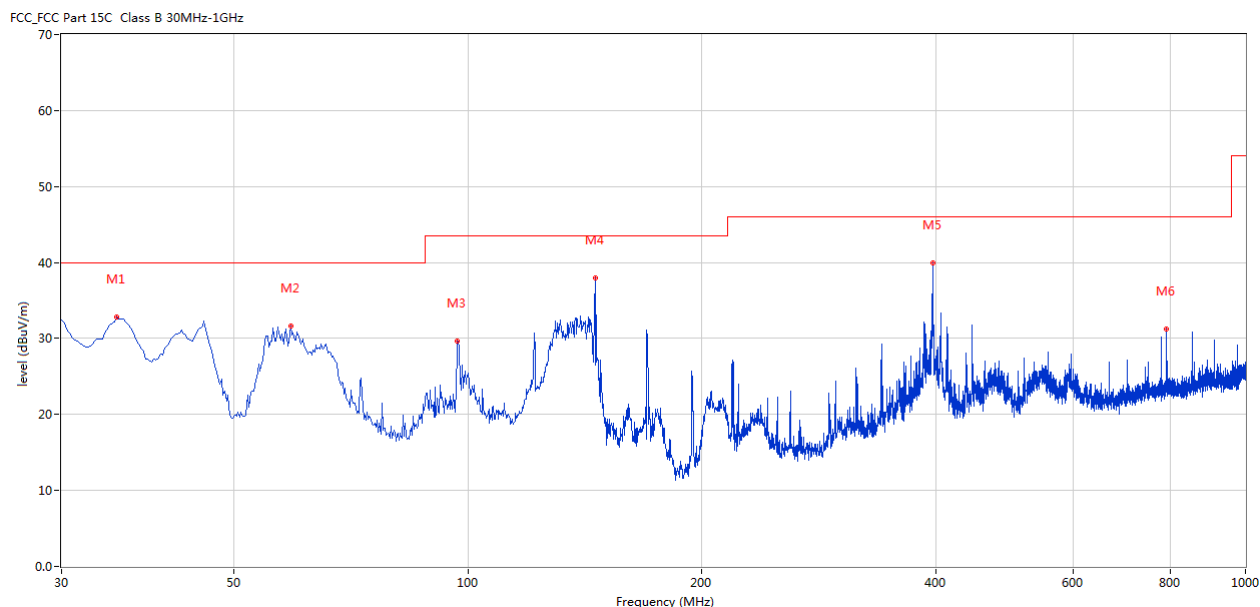
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	46.001	21.96	-11.40	40.0	-18.04	Peak	139.00	100	Horizontal	Pass
2	72.912	24.73	-16.82	40.0	-15.27	Peak	0.00	200	Horizontal	Pass
3	145.644	37.37	-17.31	43.5	-6.13	Peak	41.00	200	Horizontal	Pass
4	316.806	38.21	-10.78	46.0	-7.79	Peak	0.00	200	Horizontal	Pass
5	341.050	37.79	-9.75	46.0	-8.21	Peak	41.00	100	Horizontal	Pass
6	396.083	40.39	-8.72	46.0	-5.61	Peak	149.00	100	Horizontal	Pass

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# D: Radiated Disturbance (30MHz----1000MHz)

Project Number:	CASE3	Test Time:	2022-01-20_14.49.15
EUT Name:	Protector cutter	Test Engineer:	Vincent
Manufacturer:	SHENZHEN JINGWEIXIAN TECHNOLOGY CO.,LTD	Test Standard:	FCC Part 15.209
Model:	Mini 8	Work Addition:	Keep BT Transmitting
Temp.(oC):	25	Load:	
Hum.:	65%	Remark:	Power Supply: GM60-240275-F, Flash: KLM8G1GETF-B041



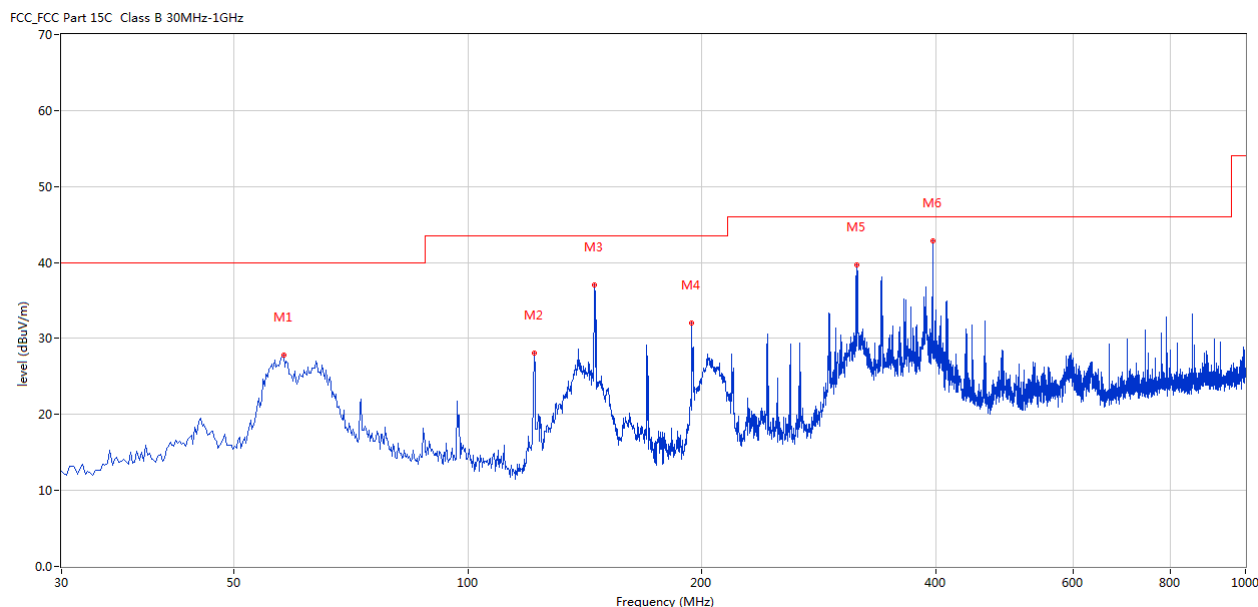
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	35.334	32.80	-13.92	40.0	-7.20	Peak	1.00	100	Vertical	Pass
2	59.093	31.62	-12.87	40.0	-8.38	Peak	143.00	100	Vertical	Pass
3	96.913	29.67	-13.96	43.5	-13.83	Peak	276.00	100	Vertical	Pass
4	145.644	37.94	-17.31	43.5	-5.56	Peak	99.00	100	Vertical	Pass
5	396.083	39.92	-8.72	46.0	-6.08	Peak	0.00	200	Vertical	Pass
6	791.987	31.24	-3.10	46.0	-14.76	Peak	88.00	100	Vertical	Pass

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# **E: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2022-01-20_15.00.22
EUT Name:	Protector cutter	Test Engineer:	Vincent
Manufacturer:	SHENZHEN JINGWEIXIAN TECHNOLOGY CO.,LTD	Test Standard:	FCC Part 15.209
Model:	Mini 8	Work Addition:	Keep WIFI Transmitting
Temp.(oC):	25	Load:	
Hum.:	65%	Remark:	Power Supply: FJ-SW20172402700, Flash: KLM8G1GETF-B041



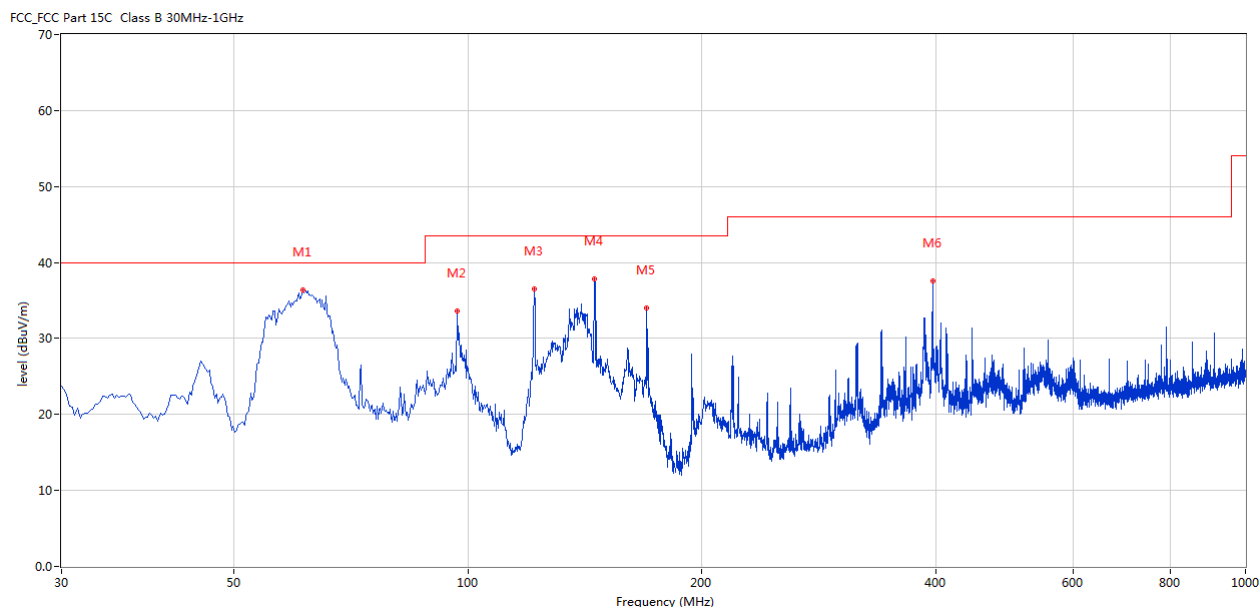
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	57.881	27.80	-12.61	40.0	-12.20	Peak	8.00	200	Horizontal	Pass
2	121.642	28.10	-15.69	43.5	-15.40	Peak	254.00	100	Horizontal	Pass
3	145.401	37.07	-17.29	43.5	-6.43	Peak	125.00	200	Horizontal	Pass
4	194.131	32.03	-13.84	43.5	-11.47	Peak	19.00	200	Horizontal	Pass
5	316.563	39.72	-10.79	46.0	-6.28	Peak	0.00	200	Horizontal	Pass
6	395.841	42.89	-8.70	46.0	-3.11	Peak	0.00	200	Horizontal	Pass

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**F: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2022-01-20_15.03.38
EUT Name:	Protector cutter	Test Engineer:	Vincent
Manufacturer:	SHENZHEN JINGWEIXIAN TECHNOLOGY CO.,LTD	Test Standard:	FCC Part 15.209
Model:	Mini 8	Work Addition:	Keep WIFI Transmitting
Temp.(oC):	25	Load:	
Hum.:	65%	Remark:	Power Supply: FJ-SW20172402700, Flash: KLM8G1GETF-B041



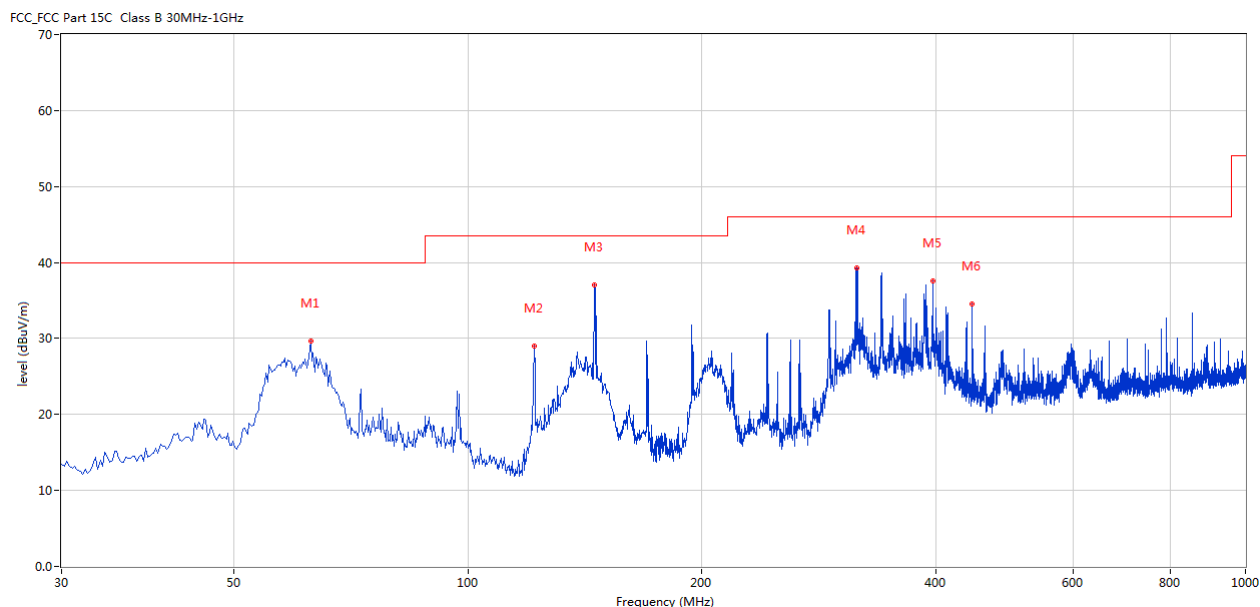
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	61.275	36.42	-13.14	40.0	-3.58	Peak	291.00	100	Vertical	Pass
2	96.913	33.60	-13.96	43.5	-9.90	Peak	100.00	100	Vertical	Pass
3	121.642	36.47	-15.69	43.5	-7.03	Peak	69.00	100	Vertical	Pass
4	145.401	37.78	-17.29	43.5	-5.72	Peak	54.00	100	Vertical	Pass
5	169.888	34.03	-16.03	43.5	-9.47	Peak	61.00	100	Vertical	Pass
6	395.841	37.64	-8.70	46.0	-8.36	Peak	0.00	200	Vertical	Pass

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# **G: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2022-01-20_15.06.27
EUT Name:	Protector cutter	Test Engineer:	Vincent
Manufacturer:	SHENZHEN JINGWEIXIAN TECHNOLOGY CO.,LTD	Test Standard:	FCC Part 15.209
Model:	Mini 8	Work Addition:	Keep BT Transmitting
Temp.(oC):	25	Load:	
Hum.:	65%	Remark:	Power Supply: FJ-SW20172402700, Flash: KLM8G1GETF-B041



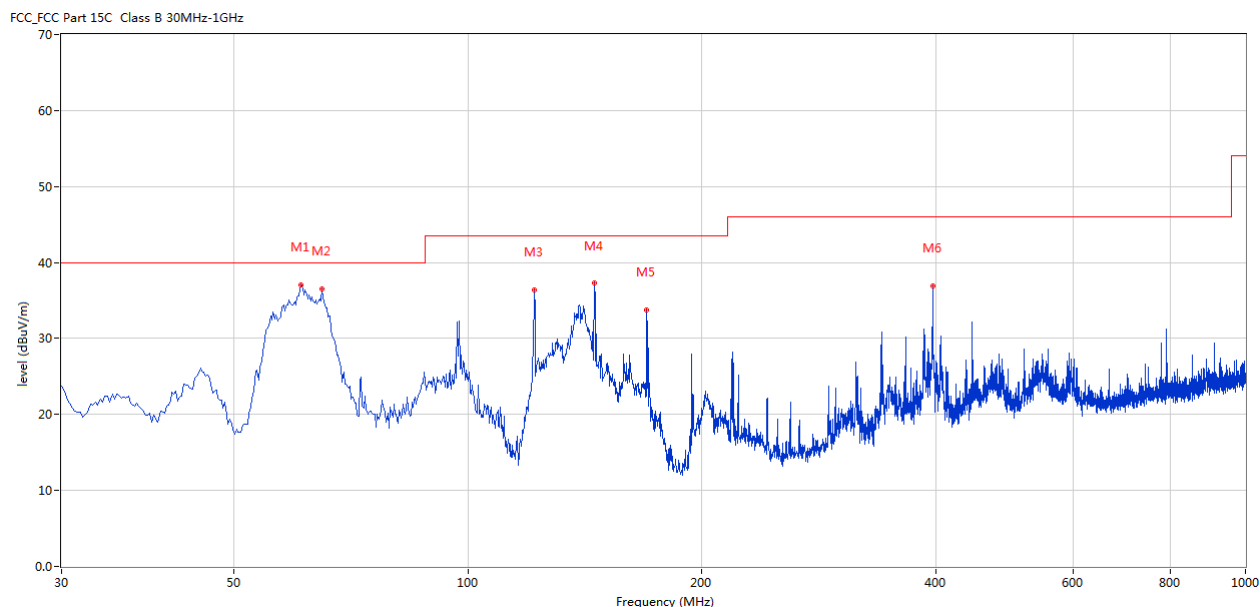
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	62.729	29.67	-13.30	40.0	-10.33	Peak	349.00	200	Horizontal	Pass
2	121.642	29.05	-15.69	43.5	-14.45	Peak	227.00	200	Horizontal	Pass
3	145.401	37.03	-17.29	43.5	-6.47	Peak	134.00	200	Horizontal	Pass
4	316.563	39.31	-10.79	46.0	-6.69	Peak	0.00	200	Horizontal	Pass
5	395.841	37.52	-8.70	46.0	-8.48	Peak	134.00	200	Horizontal	Pass
6	445.299	34.59	-8.00	46.0	-11.41	Peak	159.00	200	Horizontal	Pass

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# H: Radiated Disturbance (30MHz----1000MHz)

Project Number:	CASE3	Test Time:	2022-01-20_15.08.07
EUT Name:	Protector cutter	Test Engineer:	Vincent
Manufacturer:	SHENZHEN JINGWEIXIAN TECHNOLOGY CO.,LTD	Test Standard:	FCC Part 15.209
Model:	Mini 8	Work Addition:	Keep BT Transmitting
Temp.(oC):	25	Load:	
Hum.:	65%	Remark:	Power Supply: FJ-SW20172402700, Flash: KLM8G1GETF-B041



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	61.032	37.05	-13.10	40.0	-2.95	Peak	181.00	100	Vertical	Pass
2	64.911	36.53	-13.55	40.0	-3.47	Peak	111.00	100	Vertical	Pass
3	121.642	36.42	-15.69	43.5	-7.08	Peak	158.00	100	Vertical	Pass
4	145.401	37.33	-17.29	43.5	-6.17	Peak	87.00	100	Vertical	256
5	169.888	33.80	-16.03	43.5	-9.70	Peak	93.00	100	Vertical	Pass
6	395.841	36.95	-8.70	46.0	-9.05	Peak	322.00	100	Vertical	Pass

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## 6.0 FCC Label

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

**Mark Location: On the product body**



## 7.0 Photo of testing

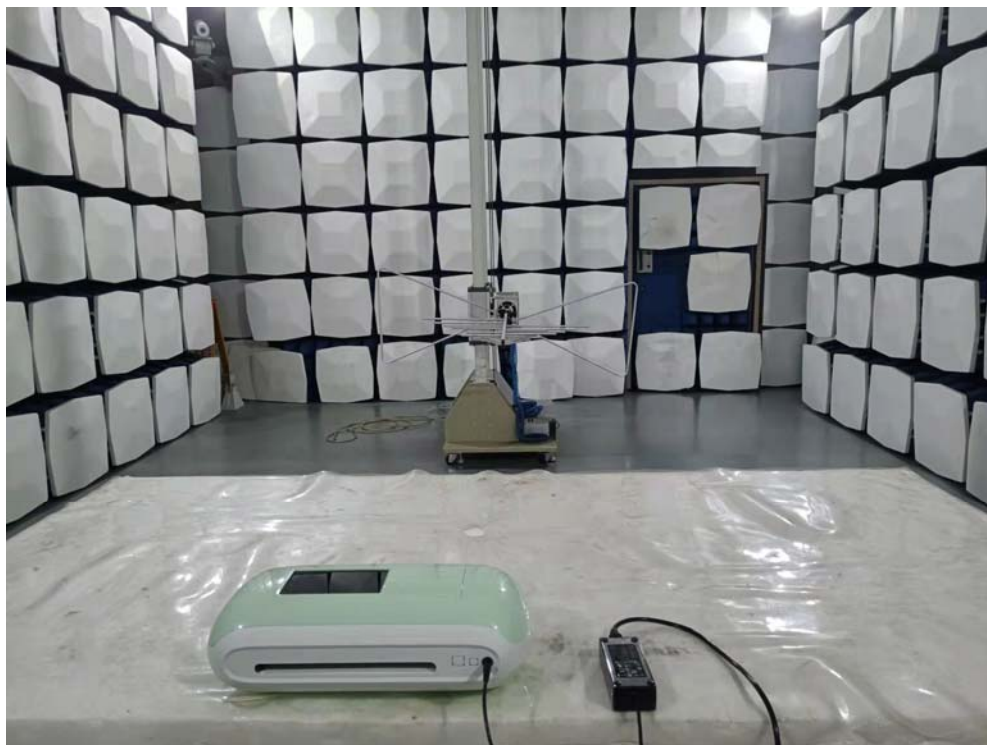
### Conducted Emissions



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### Radiated Emissions



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## Photographs – EUT



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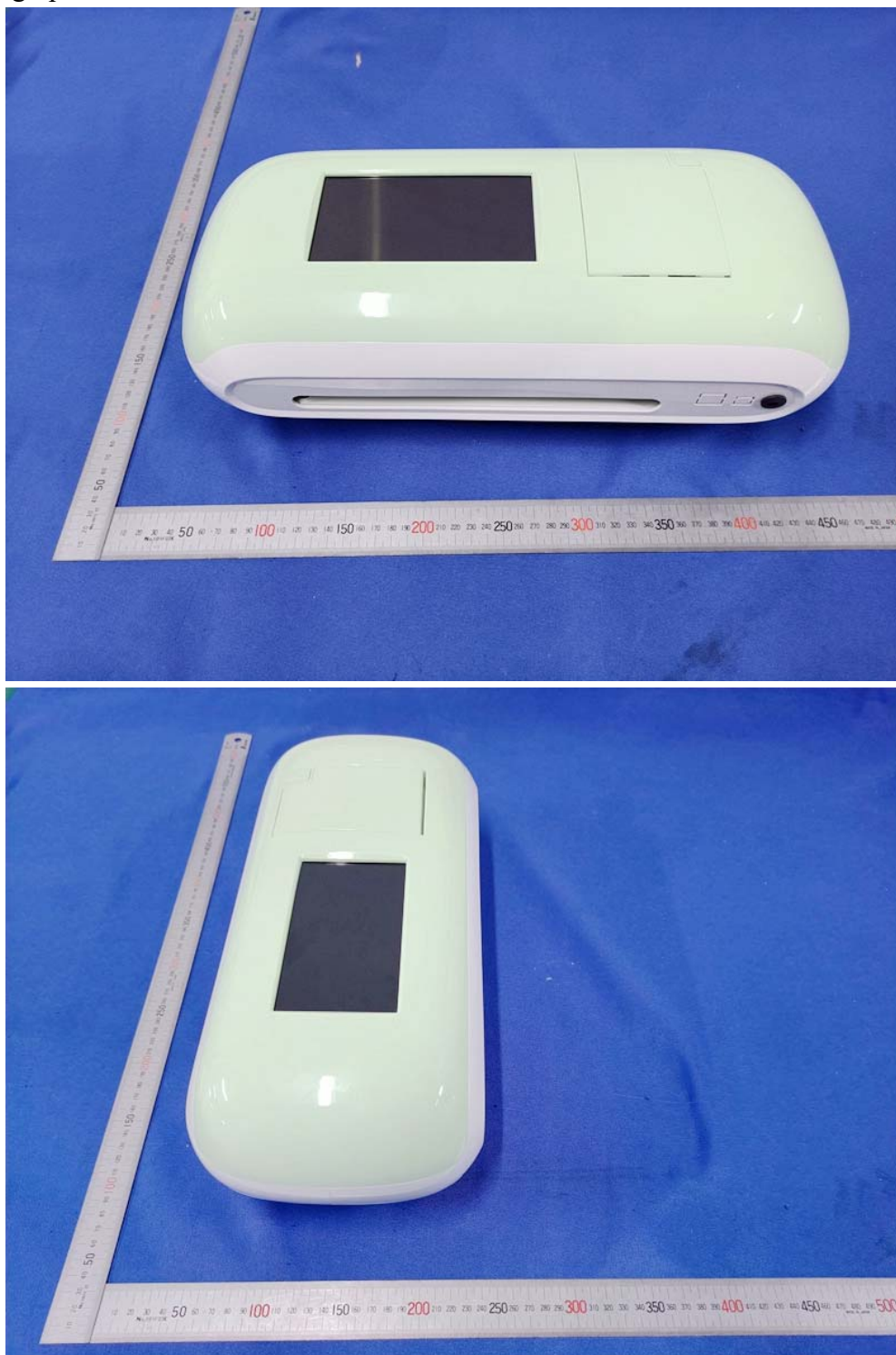
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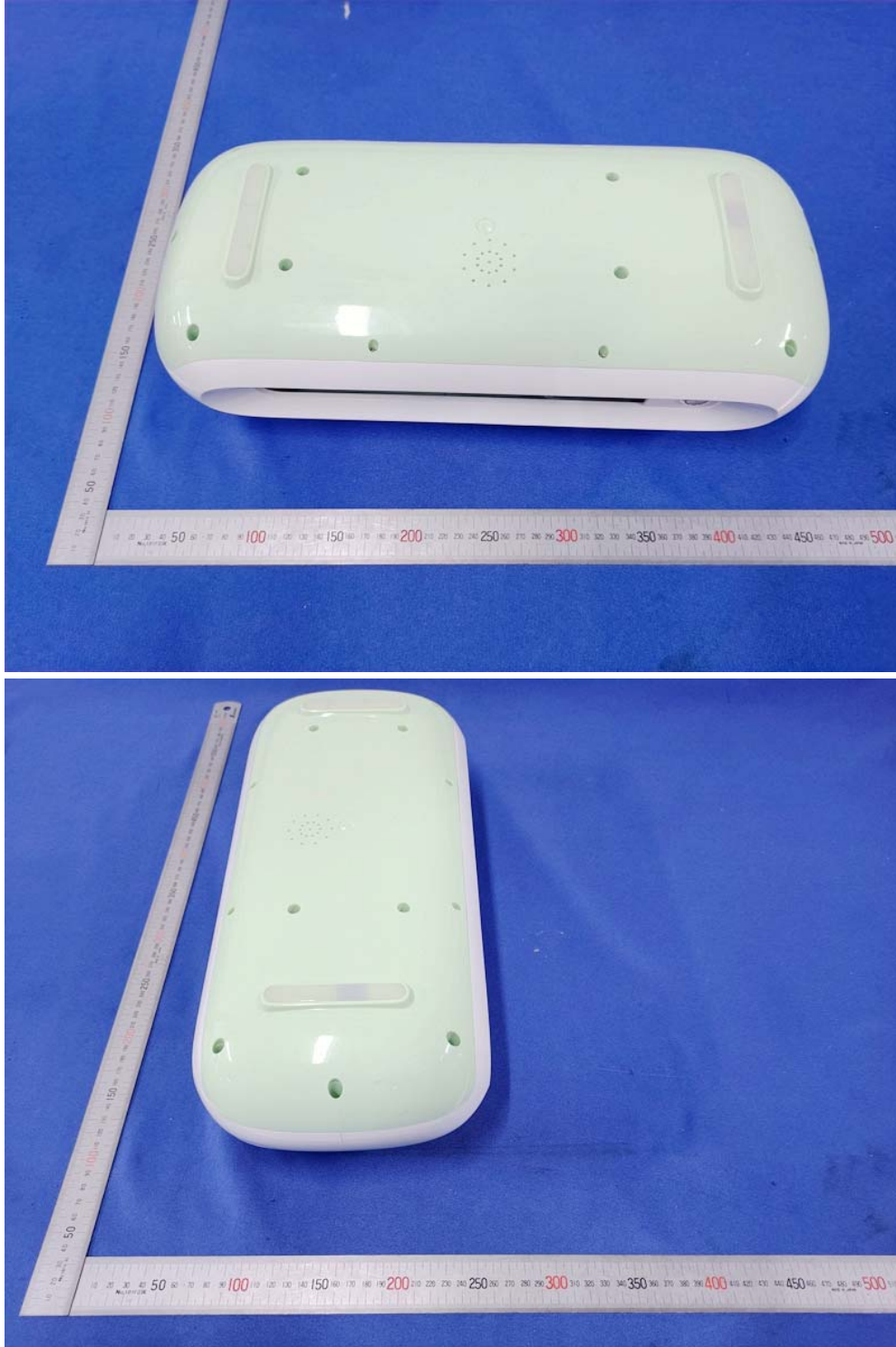
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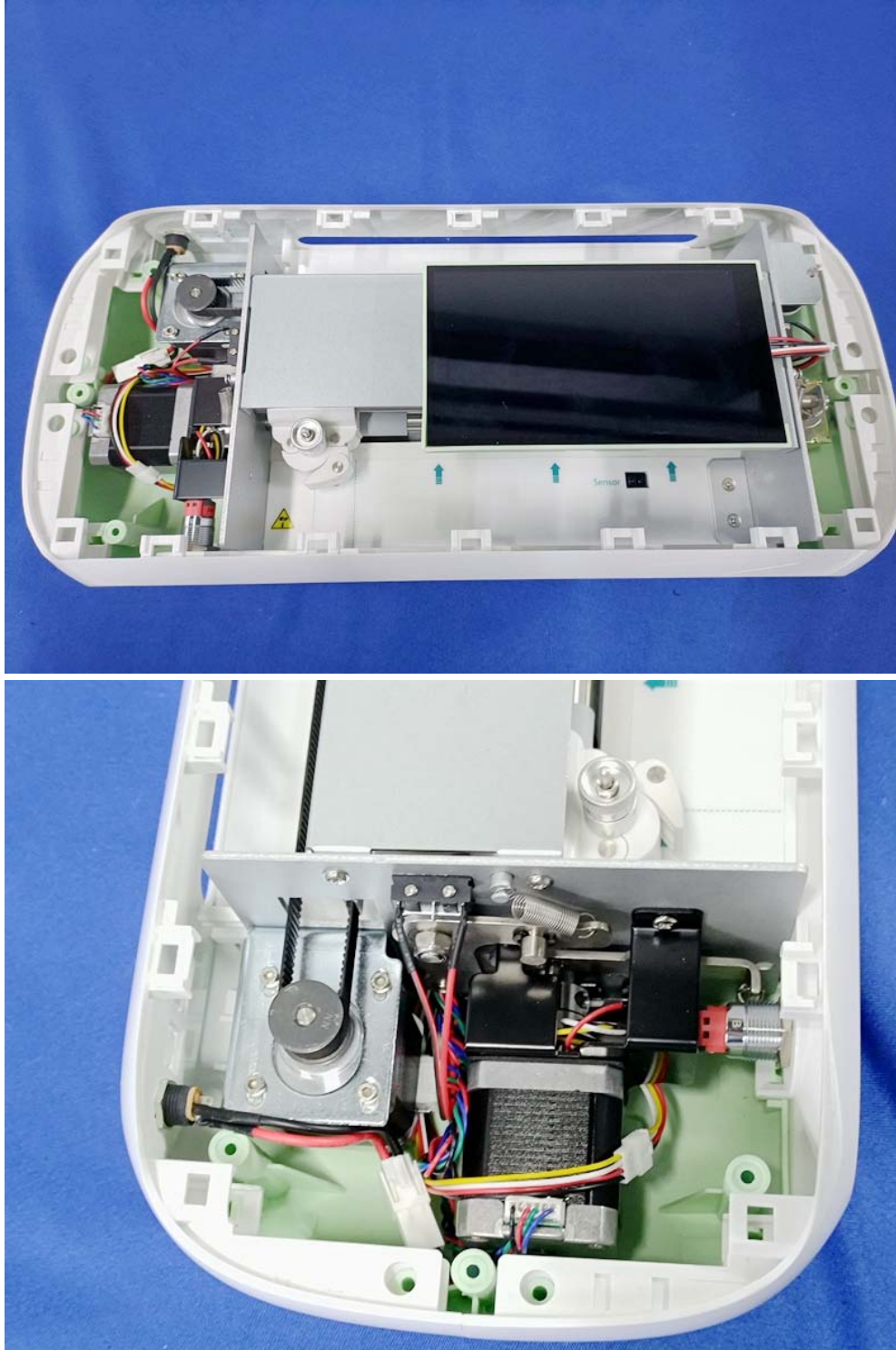
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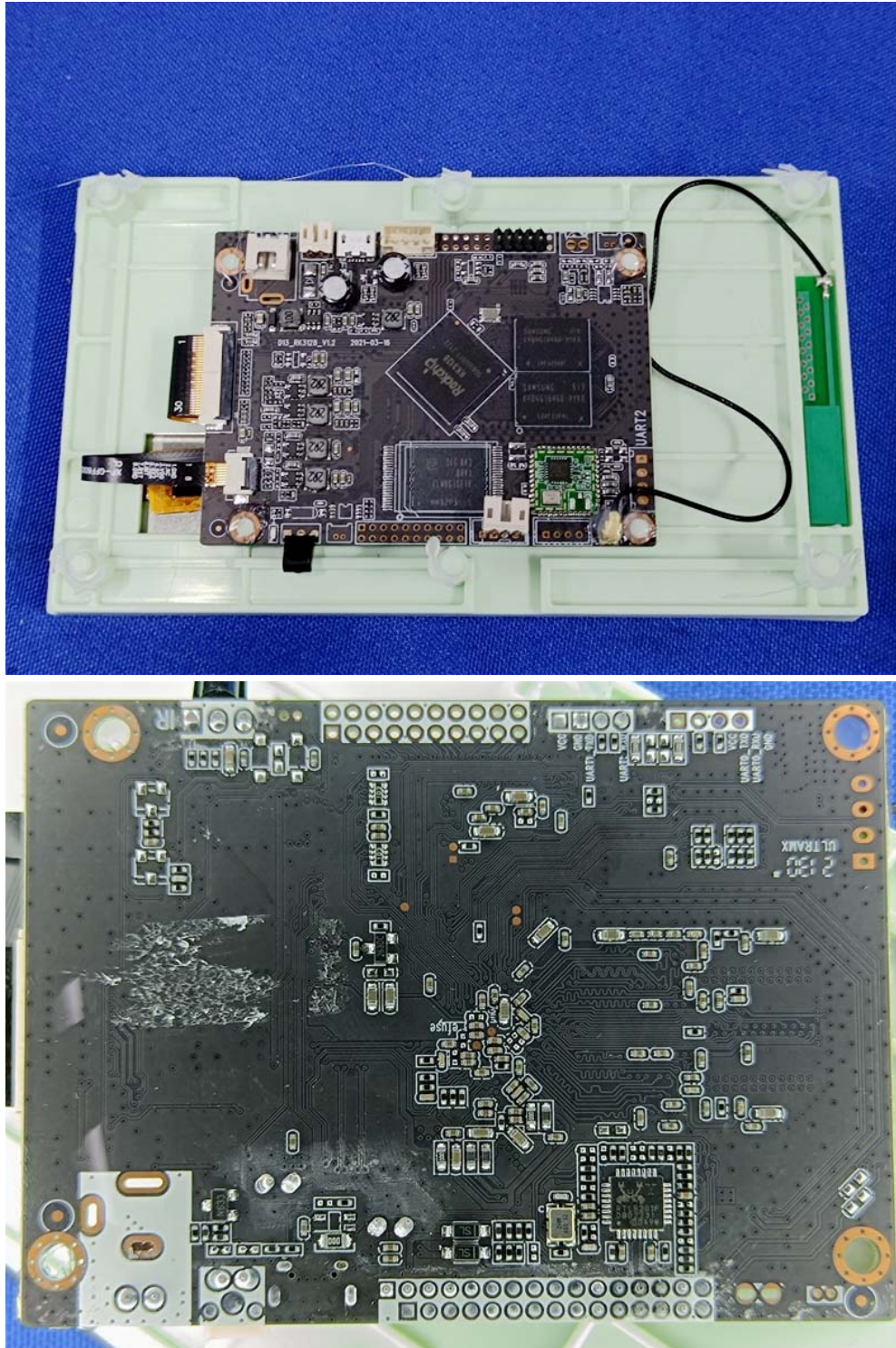
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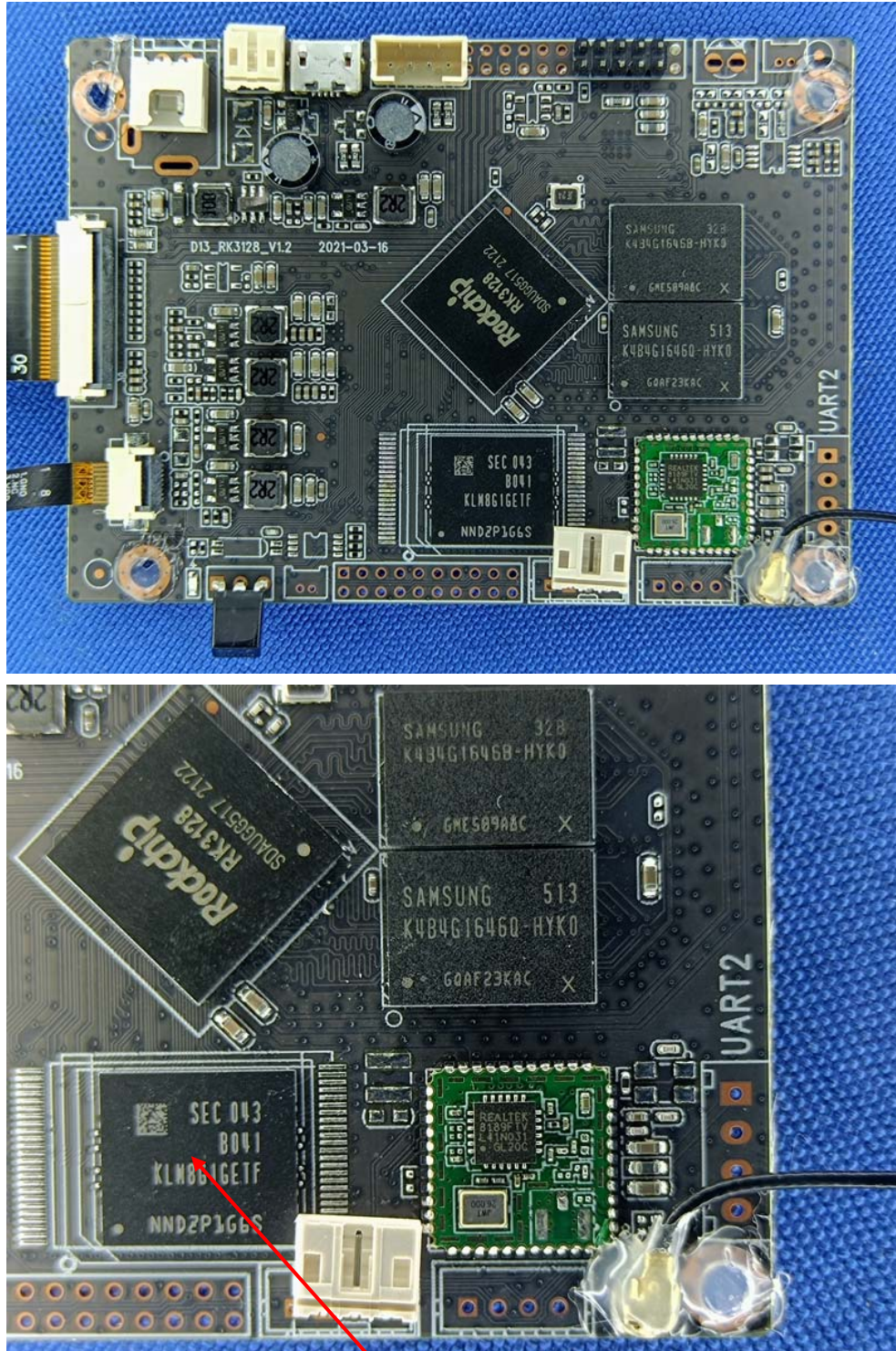
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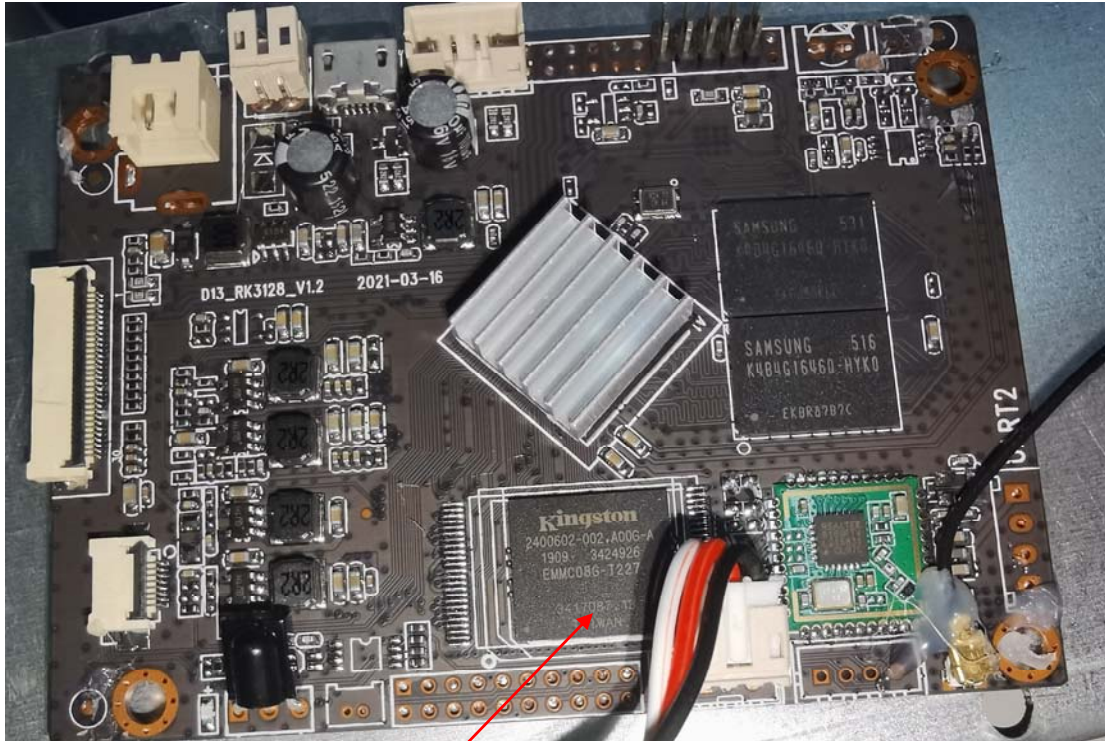


Flash Storage—Samsung

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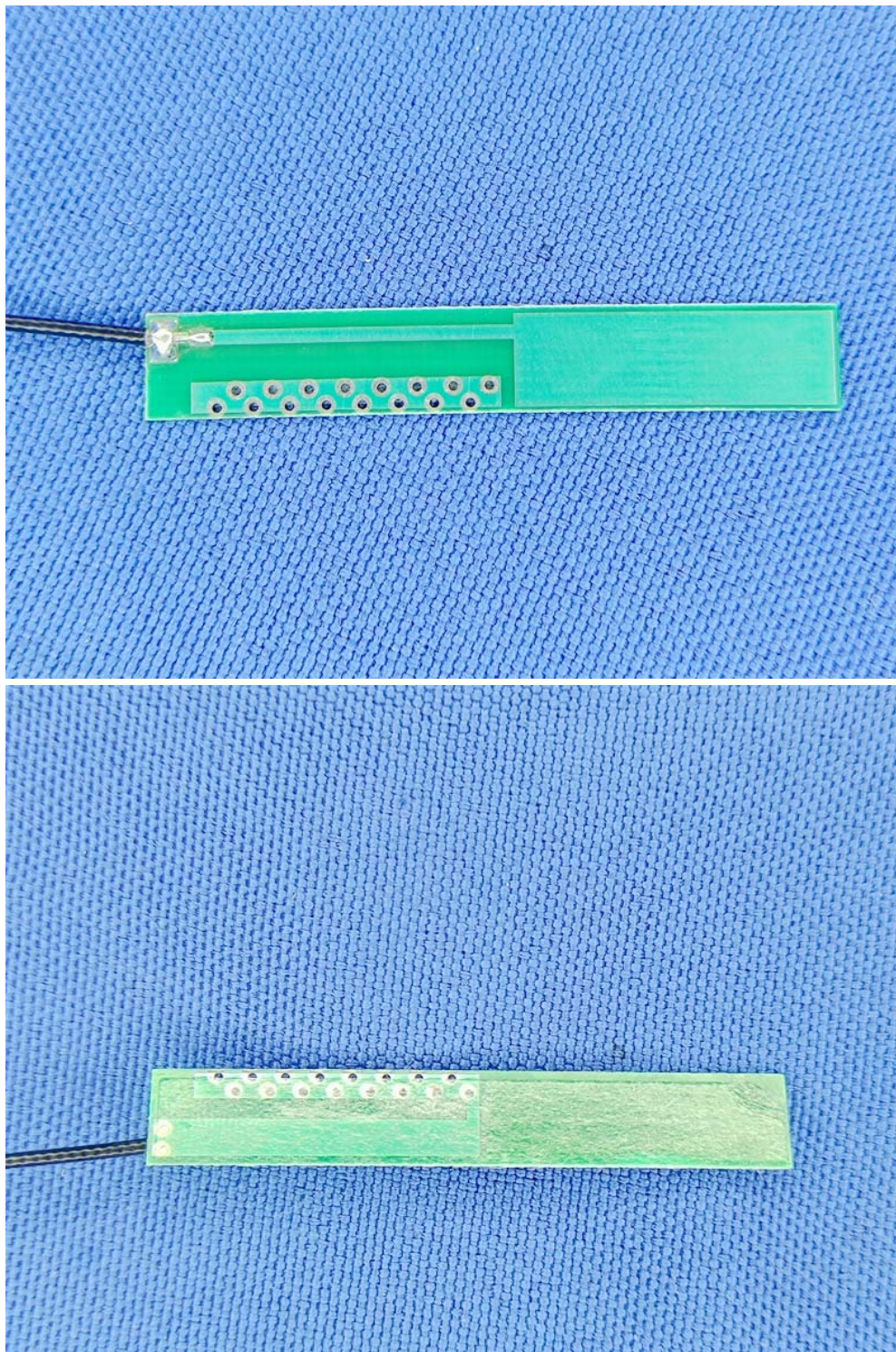
Flash Storage--Kingston

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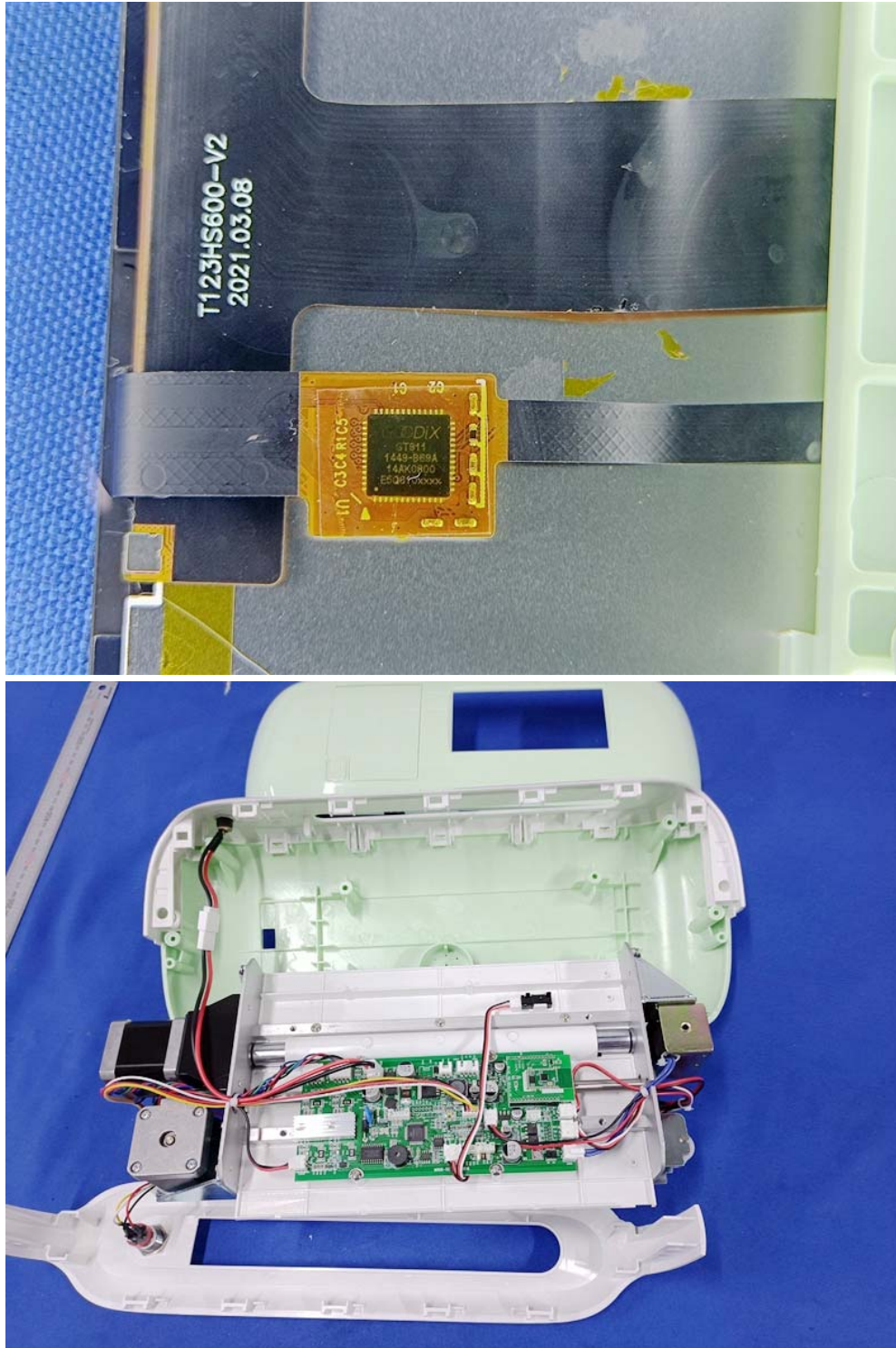
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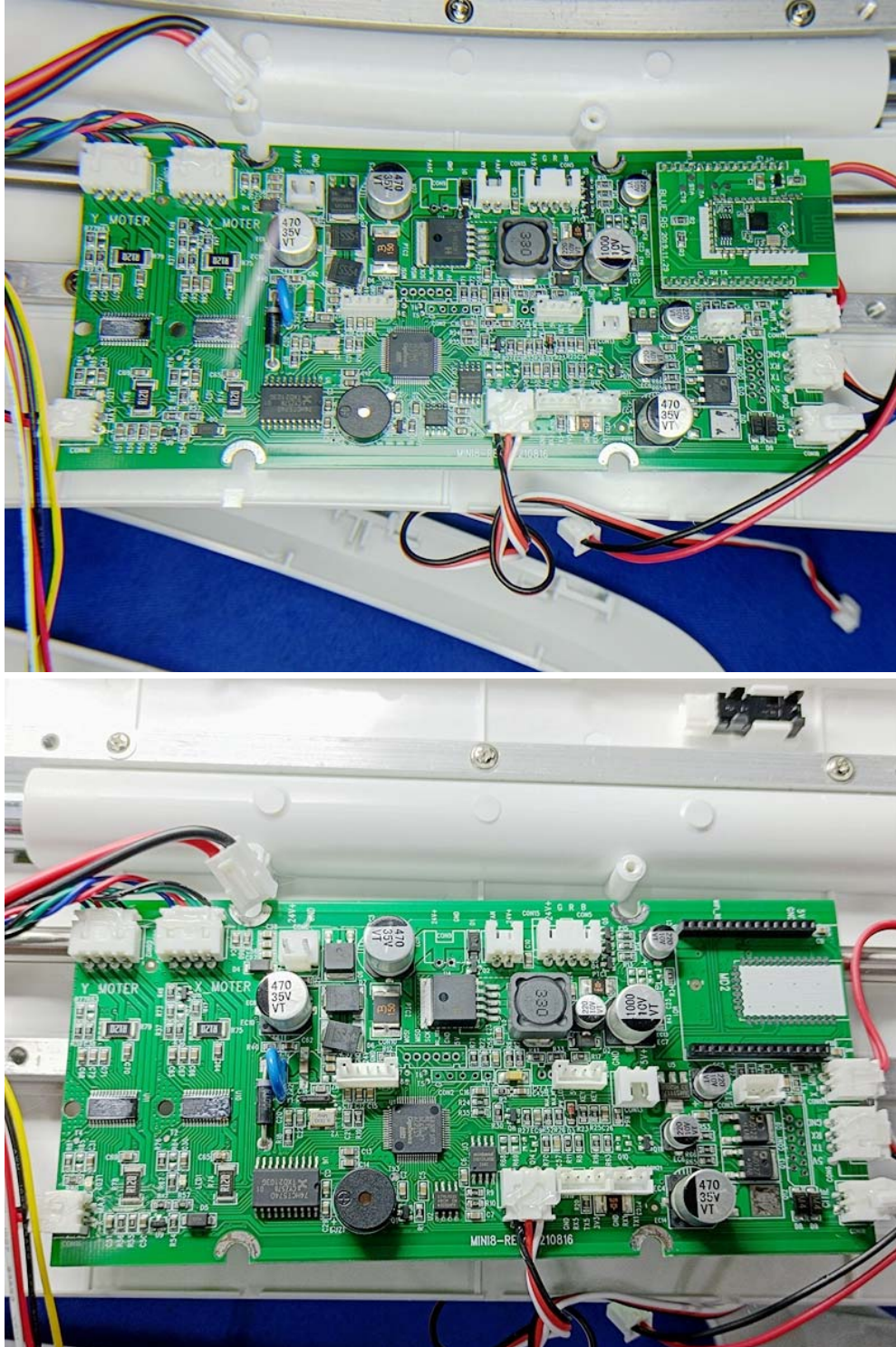
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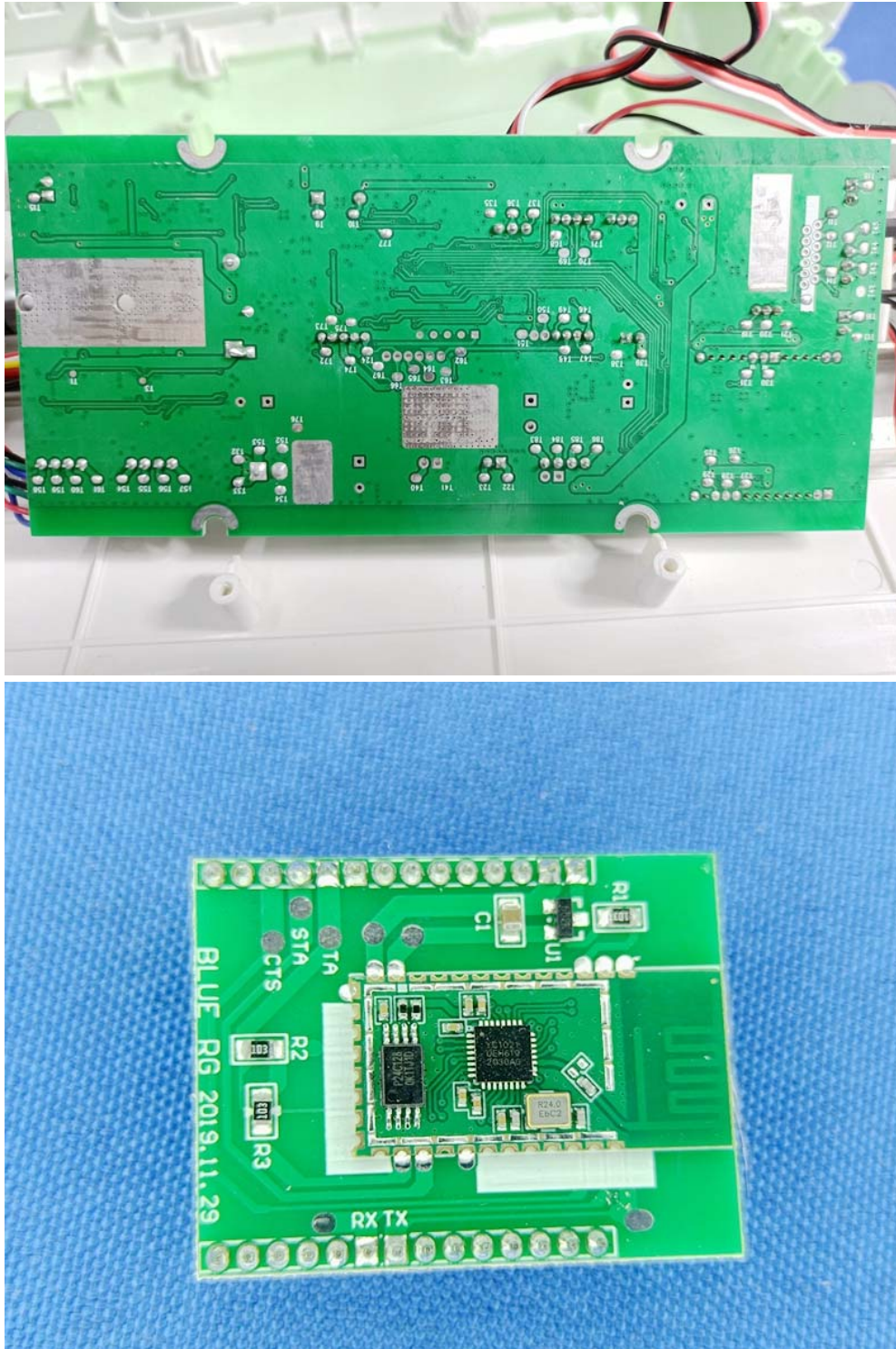
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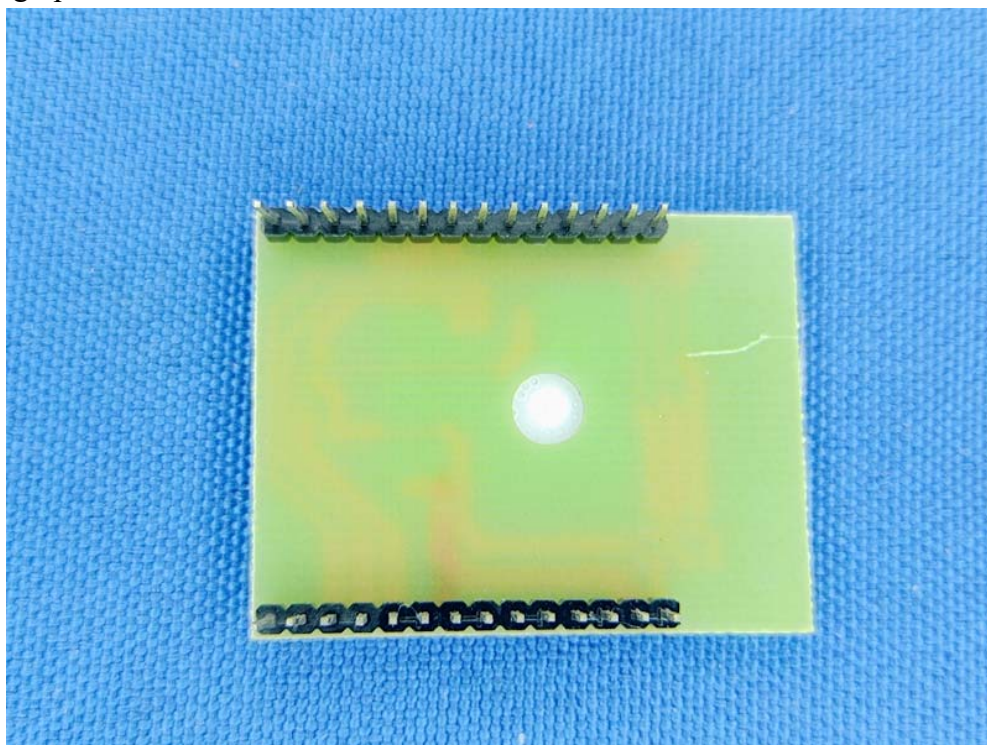


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**--End of the Report--**

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