



Report No.: TW2202143E

File Reference No.: 2022-03-11

Applicant: Kamoer Fluid Tech (Shanghai) Co., Ltd.

Product: X1 PRO 2 Dosing Pump

Trademark: 

Model No.: X1 PRO 2

Test Standards: FCC Part 15 Subpart B

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


Terry Tang

Manager

Dated: March 11, 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

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Email: 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

CAB identifier: CN0033

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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: Kamoer Fluid Tech (Shanghai) Co., Ltd.
Address: 4th building, No79 Xiangjing Road, Songjiang District, Shanghai, China
Telephone: +86-21-67742578
Fax: --

1.3 Description of EUT

Product: X1 PRO 2 Dosing Pump
Manufacturer: Kamoer Fluid Tech (Shanghai) Co., Ltd.
Address: 4th building, No79 Xiangjing Road, Songjiang District, Shanghai, China
Trademark:



Model Number: X1 PRO 2
Rating: DC12V, 1A
Power Supply: Model: TDX-1201000; Input: 100-240V~, 50/60Hz, 0.5A; Output: DC12V, 1A
Hardware Version: V1.2
Software Version: 1.1.05
Serial No.: 5146108744

1.4 Submitted Sample: 2 pcs

1.5 Test Duration

Date of Receipt of Application: February 24, 2022
Date of Receipt of Test Item: February 24, 2022
Date of Test: February 24, 2022 ~ March 10, 2022

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 1GHz Uncertainty =4.7dB
Radiated Emissions above 1GHz Uncertainty =6.0dB

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Note: The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Andy Xing

Print Name: Andy Xing

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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	ESH3-Z5	100253	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

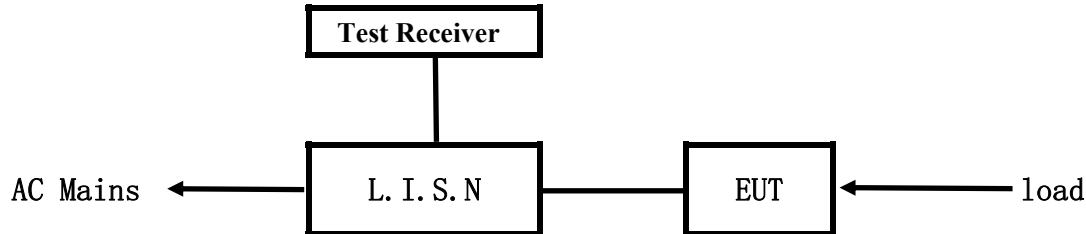
FCC Part 15 Subpart B

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4.0 Conducted Power line Test

4.1 Schematics of the test



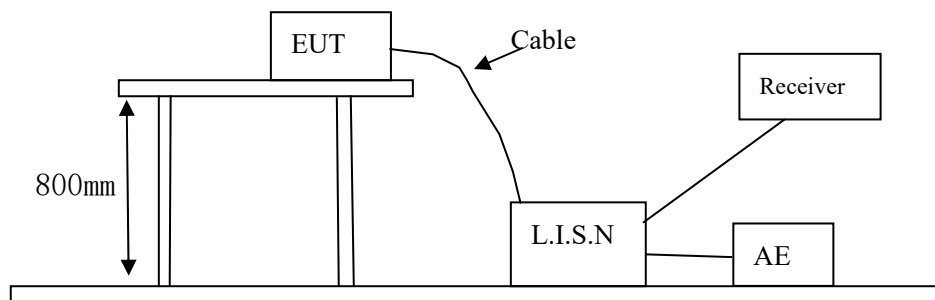
EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2014. 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

Frequency (MHz)	Class A Limits dB(μV)		Class B Limits dB(μV)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

- 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.

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

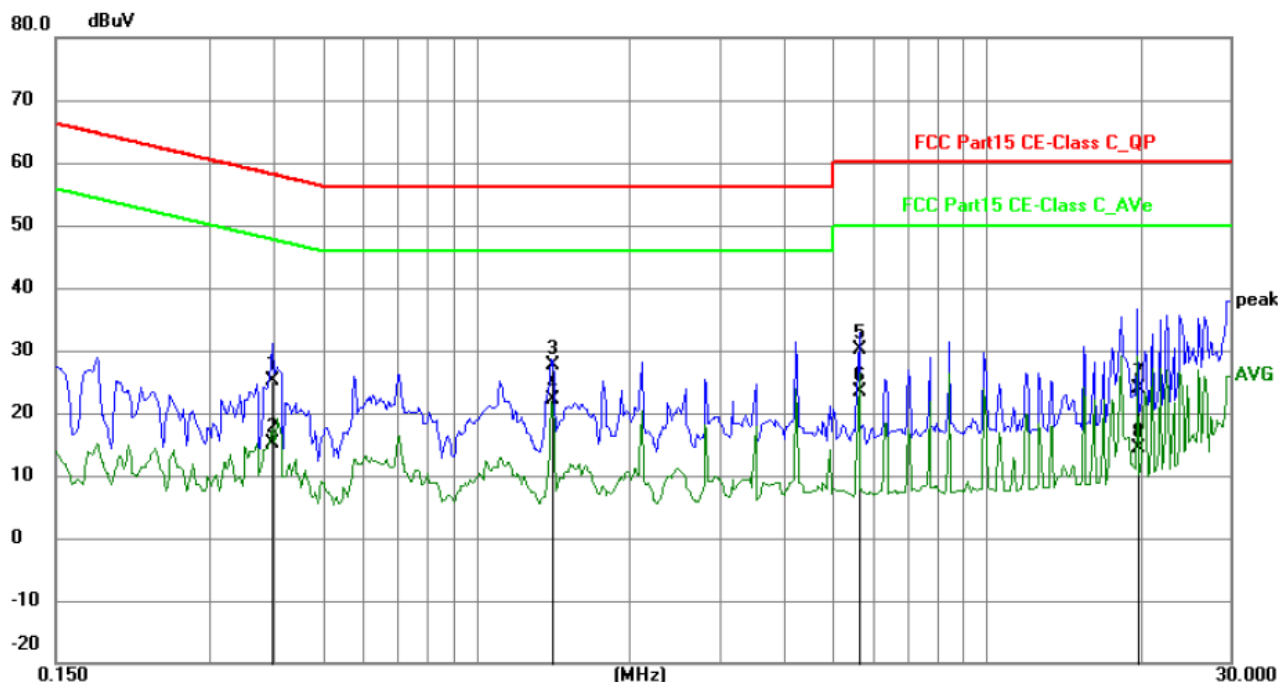
EUT Operating Environment

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

EUT set Condition: Normal Operation

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	0.3996	15.35	9.76	25.11	57.86	-32.75	QP	P
2	0.3996	5.38	9.76	15.14	47.86	-32.72	AVG	P
3	1.4097	17.76	9.79	27.55	56.00	-28.45	QP	P
4	1.4097	12.24	9.79	22.03	46.00	-23.97	AVG	P
5	5.6442	20.10	9.96	30.06	60.00	-29.94	QP	P
6	5.6442	13.51	9.96	23.47	50.00	-26.53	AVG	P
7	19.7583	13.17	10.67	23.84	60.00	-36.16	QP	P
8	19.7583	3.81	10.67	14.48	50.00	-35.52	AVG	P

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

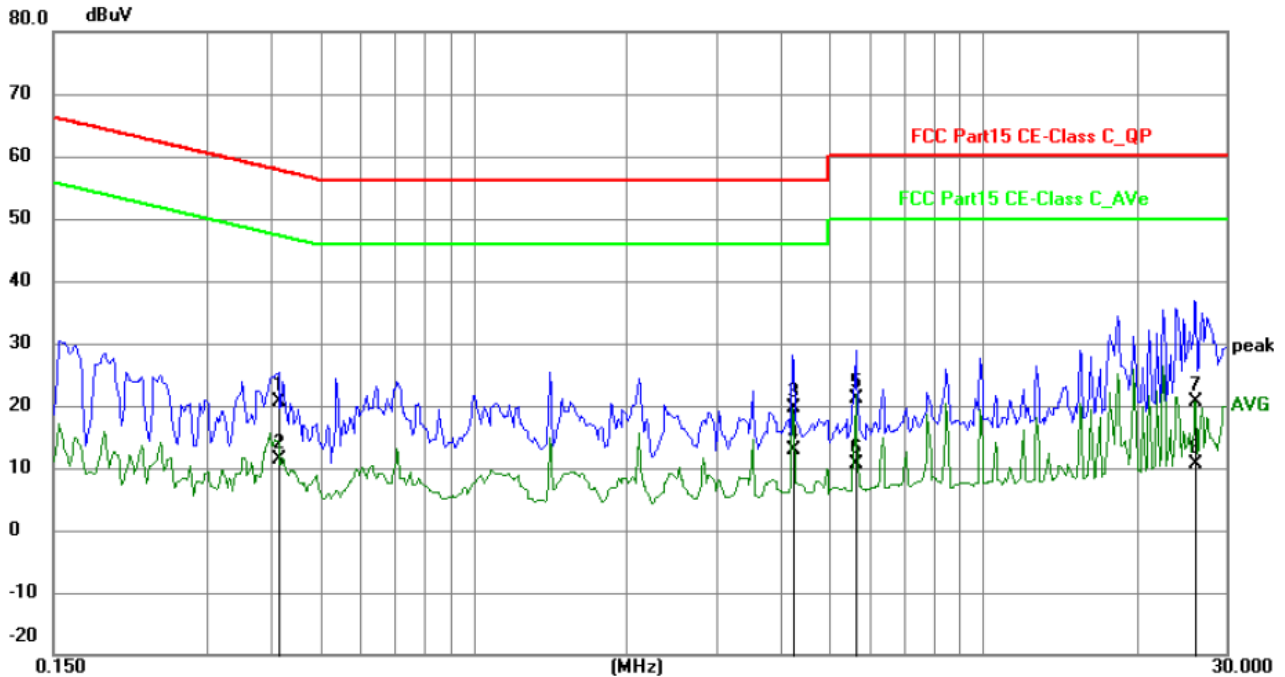
EUT Operating Environment

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

EUT set Condition: Normal Operation

Results: Pass

Please refer to following diagram for individual



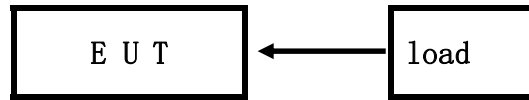
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.4152	10.80	9.76	20.56	57.54	-36.98	QP	P
2	0.4152	1.60	9.76	11.36	47.54	-36.18	AVG	P
3	4.2402	9.65	9.90	19.55	56.00	-36.45	QP	P
4	4.2402	2.90	9.90	12.80	46.00	-33.20	AVG	P
5	5.6520	11.21	9.96	21.17	60.00	-38.83	QP	P
6	5.6520	0.62	9.96	10.58	50.00	-39.42	AVG	P
7	26.1348	9.66	11.06	20.72	60.00	-39.28	QP	P
8	26.1348	-0.43	11.06	10.63	50.00	-39.37	AVG	P

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5.0 Radiated Disturbance Test

5.1 Schematics of the test

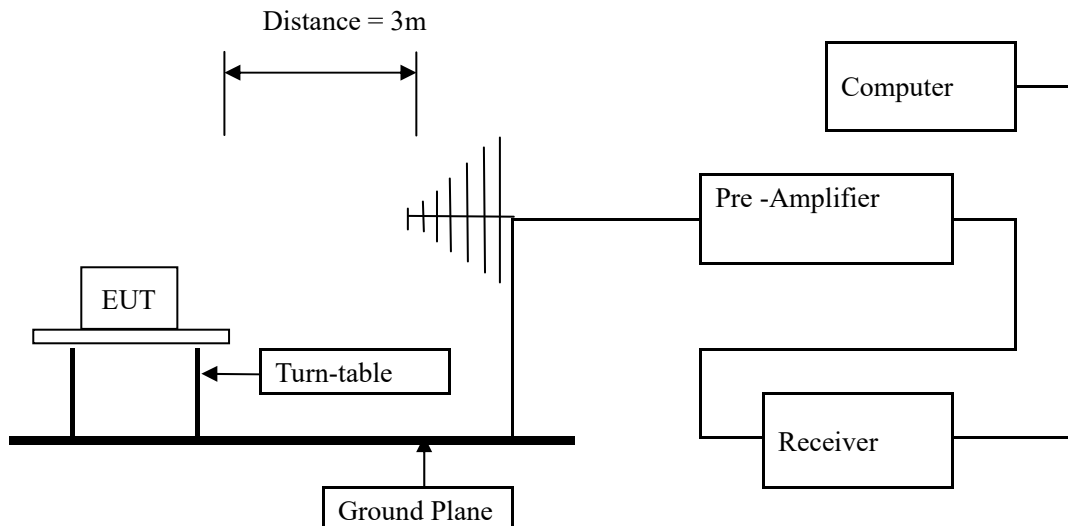


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 9kHz to 25GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup

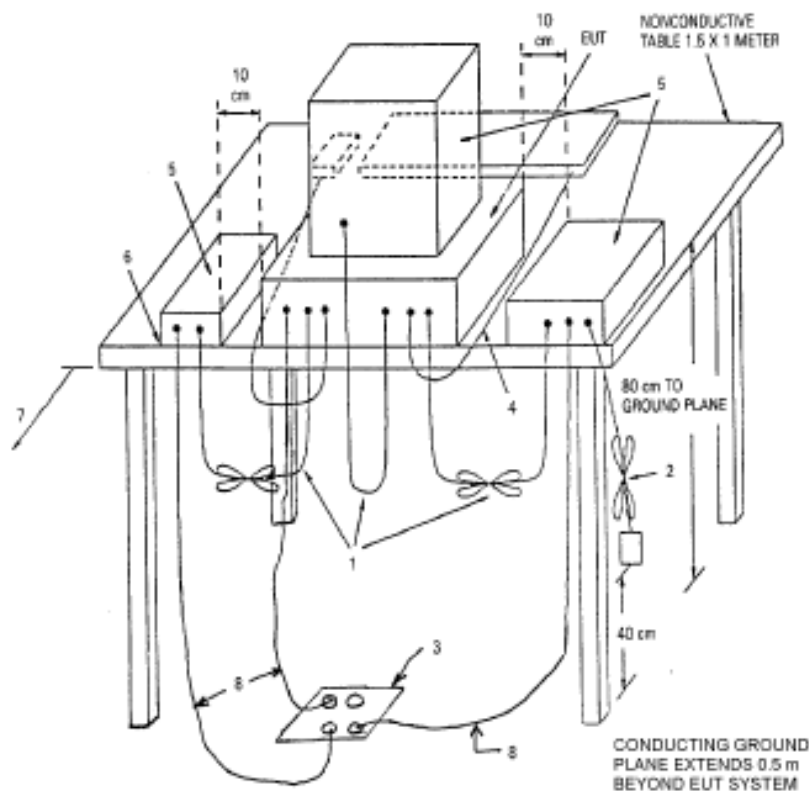


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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ 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 9MHz to 25GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

Note: For radiated Emissions from 18-25GHz and below 30MHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

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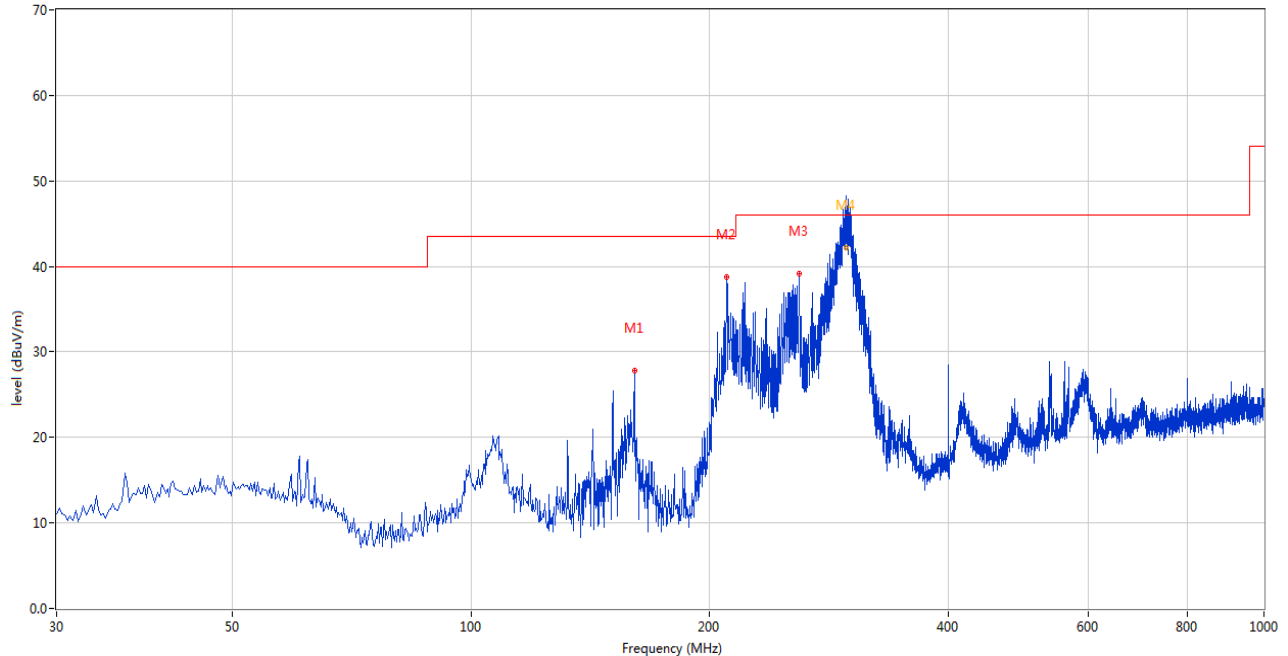
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A: Radiated Disturbance (30MHz----1000MHz)

FCC_FCC Part 15C Class B 30MHz-1GHz

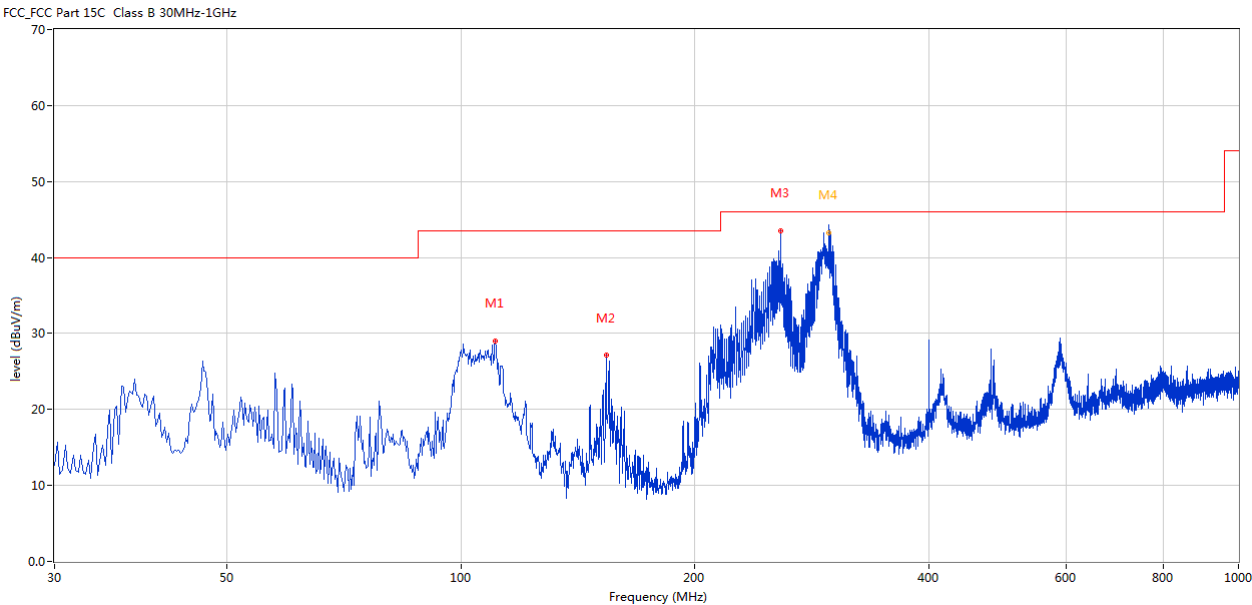


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	160.675	27.78	-16.32	43.5	-15.72	Peak	311.00	150	Horizontal	Pass
2	210.132	38.81	-13.59	43.5	-4.69	Peak	328.00	150	Horizontal	Pass
3	259.348	39.12	-11.85	46.0	-6.88	Peak	323.00	150	Horizontal	Pass
4	297.411	48.21	-11.11	46.0	2.21	Peak	231.00	150	Horizontal	N/A
4*	297.411	42.23	-11.11	46.0	-3.77	QP	231.00	150	Horizontal	Pass

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B: Radiated Disturbance (30MHz----1000MHz)



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	110.732	28.96	-13.64	43.5	-14.54	Peak	55.00	150	Vertical	Pass
2	153.644	27.09	-16.85	43.5	-16.41	Peak	97.00	150	Vertical	Pass
3	257.893	43.52	-11.84	46.0	-2.48	Peak	27.00	150	Vertical	Pass
4	297.411	44.35	-11.11	46.0	-1.65	Peak	120.00	150	Vertical	Pass
4*	297.411	43.23	-11.11	46.0	-2.77	QP	120.00	150	Vertical	Pass

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C: Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

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

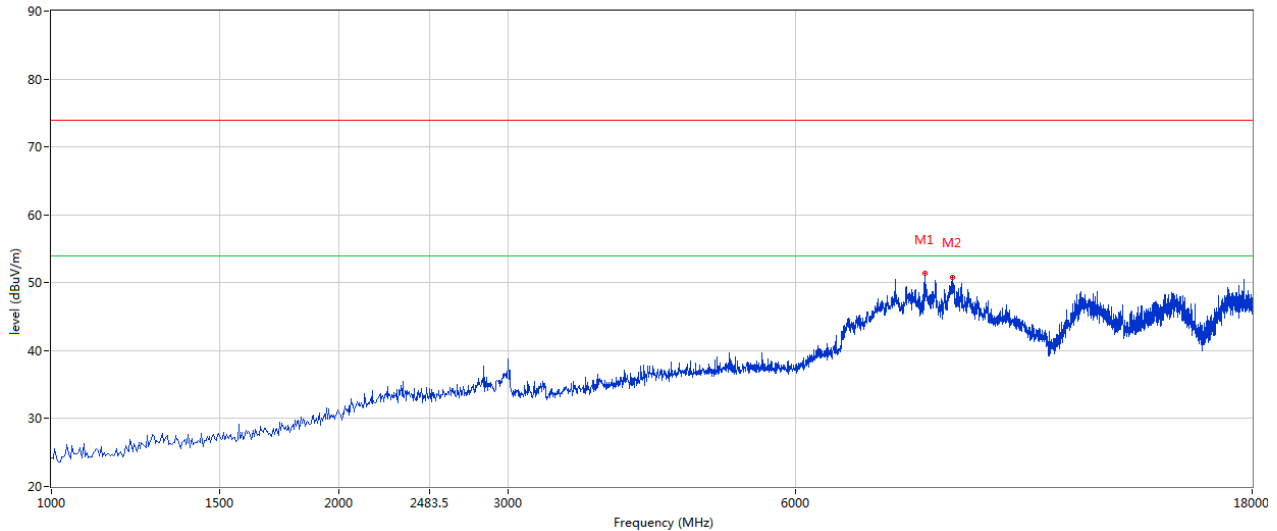
EUT set Condition: Normal Operation

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	8197.701	51.36	8.33	74.0	-22.64	Peak	100.00	100	H	Pass
2	8758.560	50.84	7.96	74.0	-23.16	Peak	100.00	100	H	Pass

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D: Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

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

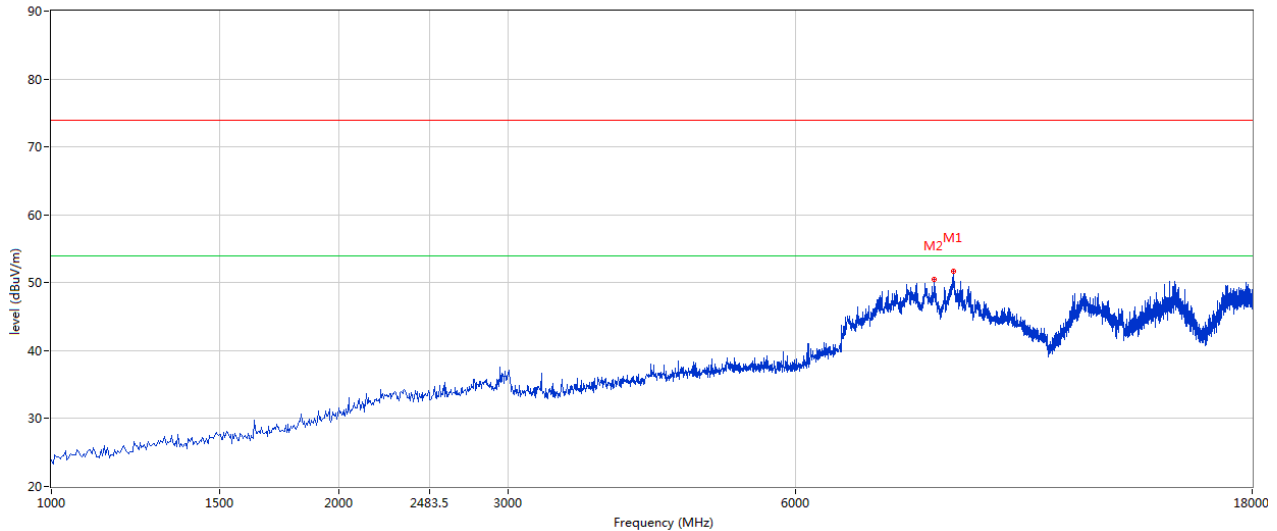
EUT set Condition: Normal Operation

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	8779.805	51.63	7.95	74.0	-22.37	Peak	242.00	100	V	Pass
2	8367.658	50.50	8.20	74.0	-23.50	Peak	0.00	100	V	Pass

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6.0 FCC Label

FCC ID: 2A5EG-X1PRO2

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.



Label Location

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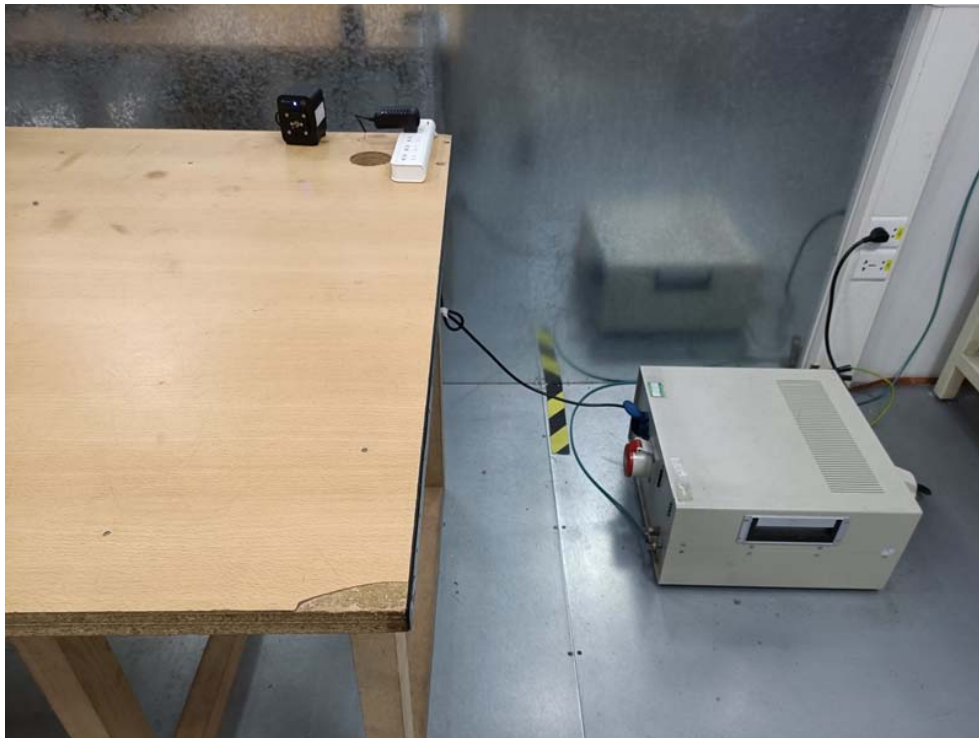
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7.0 Photo of testing

Conducted Emissions



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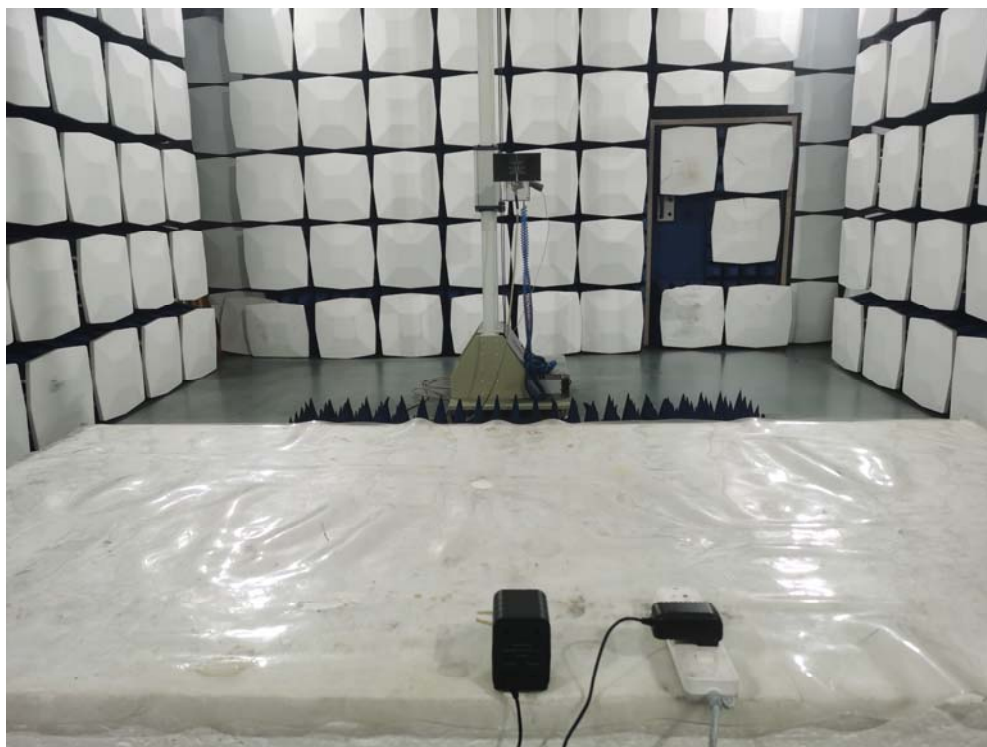
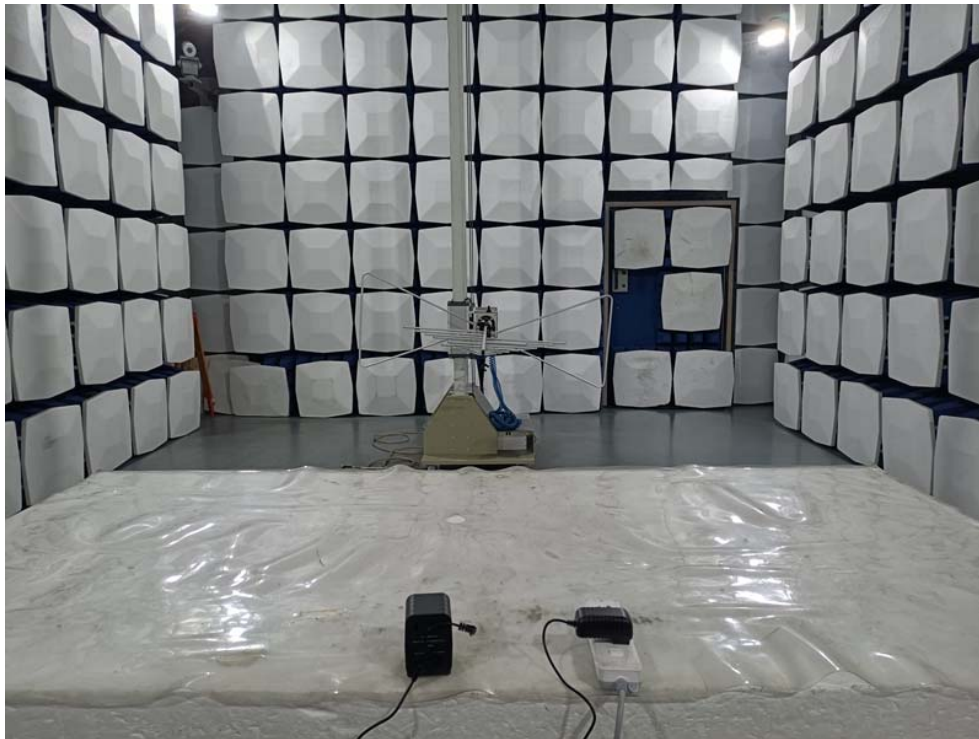
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Radiated Emissions



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Photographs – EUT



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Photographs – EUT



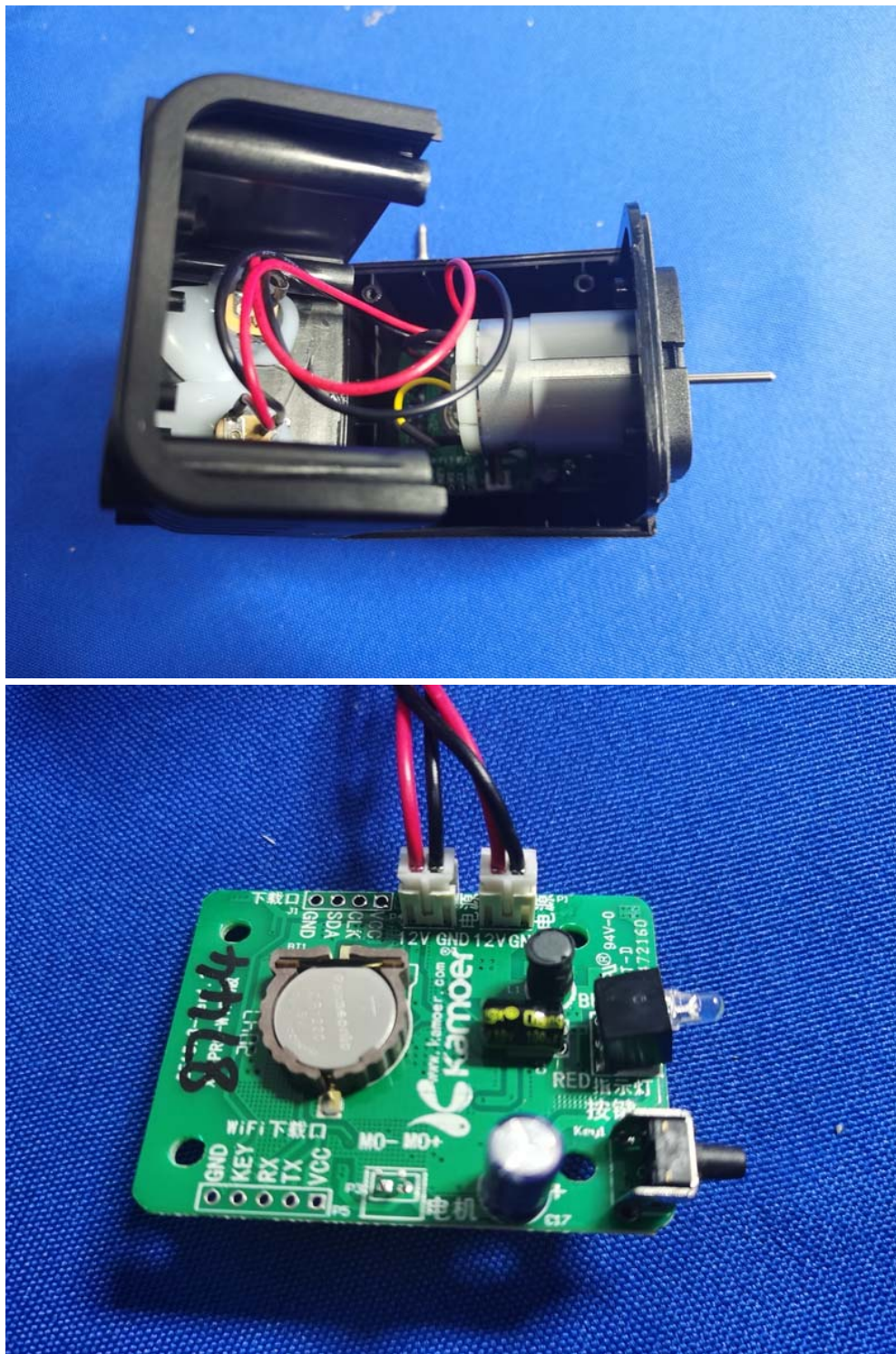
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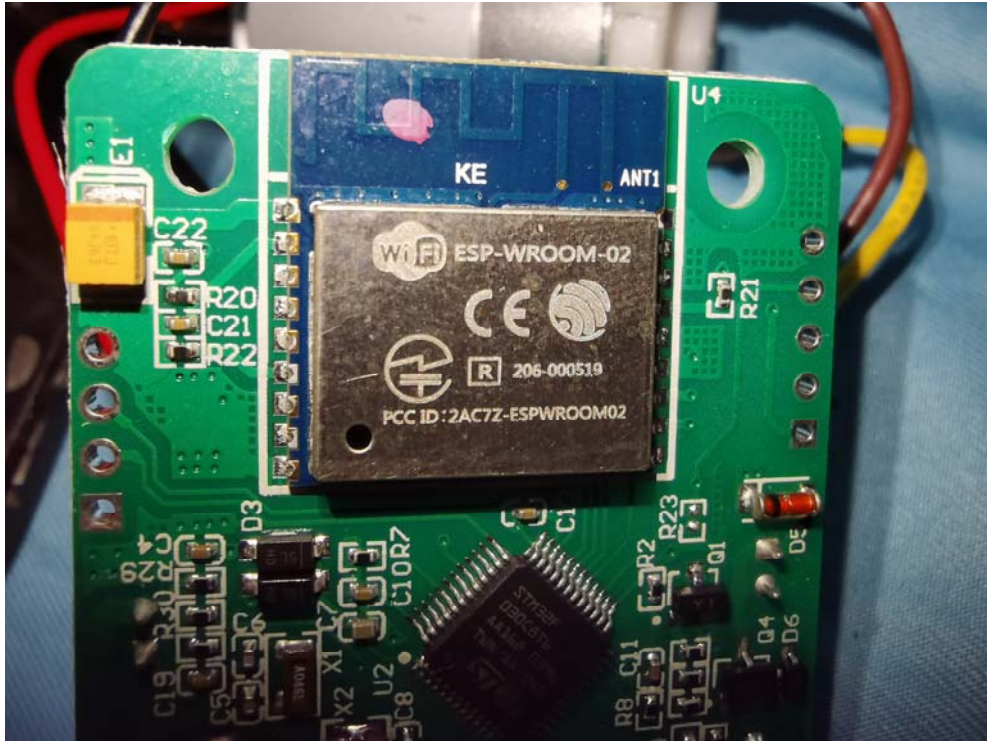
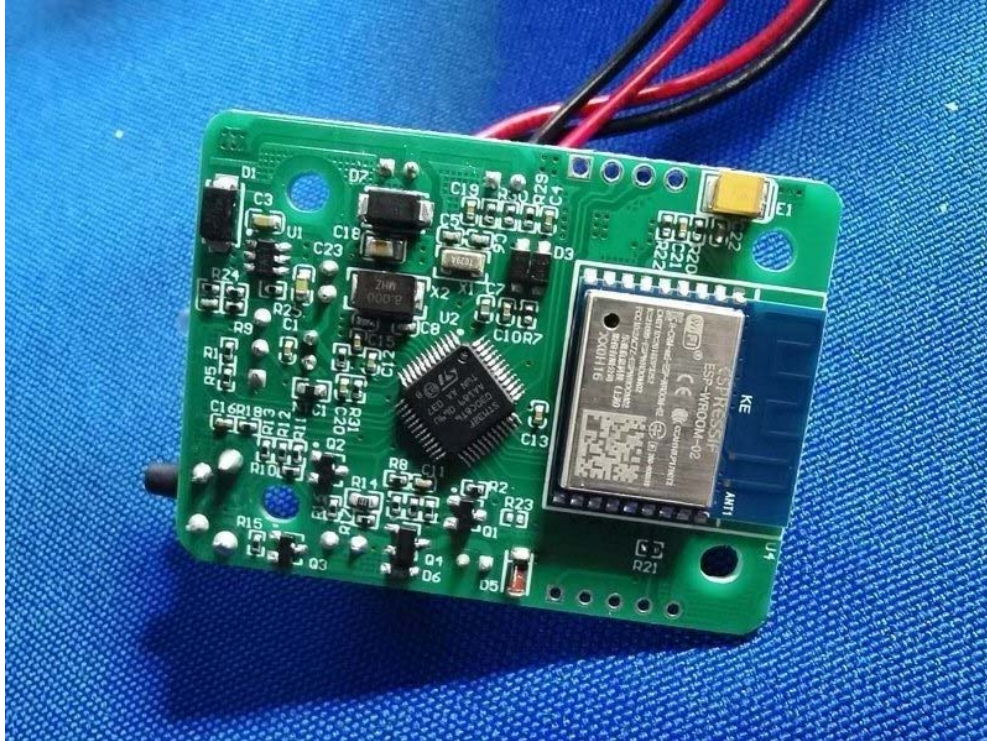
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End of The Report

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