

AS CISPR 15: 2017

TEST REPORT

For

Shenzhen ULA1L Photoelectricity Co.,Ltd.

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Street,Bao'an District,Shenzhen,Guangdong,China.

**Models:U-TRI-20W-B-MS,
U-TRI-24W-B-MS**

Report Type: Original Report	Product Type: LED Tri-proof Light
Report Number:	RDG210222800-09
Report Date:	2021-03-09
Reviewed By:	Jerry Zhang EMC Manager
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GENERAL INFORMATION**Product Description for Equipment under Test (EUT)**

EUT Name:	LED Tri-proof Light
EUT Model:	U-TRI-20W-B-MS, U-TRI-24W-B-MS
Rated Input Voltage:	220V-240V
EUT Function:	Lighting
Serial Number:	RDG210222800-EM-S1; RDG210222800-EM-S2
EUT Received Date:	2021.02.23
EUT Received Status:	Good

Objective

This report is prepared on behalf of *Shenzhen ULAIL Photoelectricity Co.,Ltd.* in accordance with AS CISPR 15:2017 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.

The objective is to determine the compliance of EUT with:AS CISPR 15:2017.

Test Methodology

All measurements contained in this report were conducted with AS CISPR 15:2017 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.

Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol“▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).
Mode 1: Lighting.

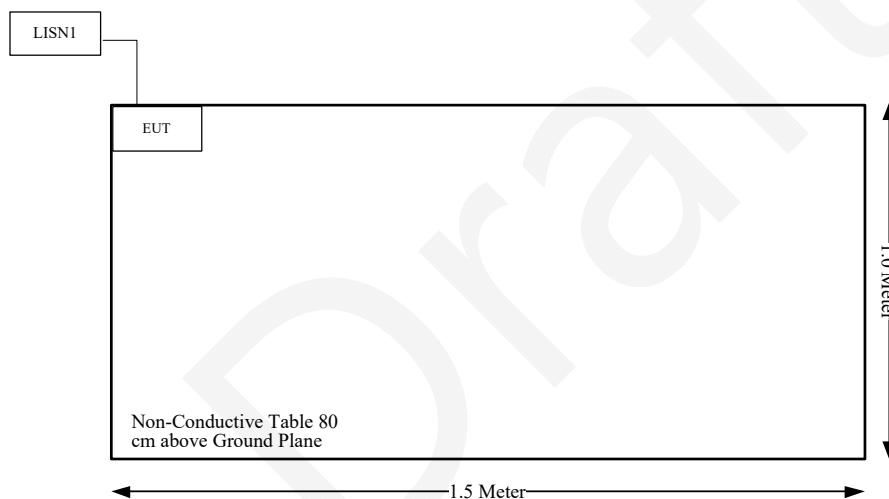
Equipment Modifications

No modification was made to the EUT.

EUT Exercise Software

N/A

Block Diagram of Test Setup



Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

Support Cable List and Details

Cable Description	Shielding Cable	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

Test Equipment List

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted emission					
R&S	LISN	ENV 216	101614	2020-09-12	2021-09-12
R&S	EMI Test Receiver	ESCI	101121	2020-07-07	2021-07-07
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2020-09-05	2021-09-05
R&S	Test Software	EMC32	Version 9.10.00	N/A	N/A
Inducted current					
EVERFINE	TRIPLE-LOOP antenna	LLA-2	903002	2018-07-12	2021-07-12
R&S	EMI Test Receiver	ESCI	101121	2020-07-07	2021-07-07
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2020-09-05	2021-09-05
R&S	Test Software	EMC32	Version 9.10.00	N/A	N/A
Radiated emissions below 1GHz					
Sunol Sciences	Antenna	JB3	A060611-2	2020-08-25	2023-08-25
R&S	EMI Test Receiver	ESCI	100224	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-02	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2020-09-24	2021-09-24
Sonoma	Amplifier	310N	185914	2020-10-13	2021-10-13
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Environmental Conditions

Temperature:	22.1~23.1°C
Relative Humidity:	52~66%
ATM Pressure:	101~101.5kPa
Tester:	Leo Long, Walker Chen
Test Date:	2021.03.01~2021.03.06

SUMMARY OF TEST RESULTS

SN	Rule and Clause	Description of Test	Test Result
1	CISPR 15 Clause 4.3.1	Conducted emissions	Compliance
2	CISPR 15 Clause 4.4.1	Radiated electromagnetic disturbances 9 kHz to 30 MHz	Compliance
3	CISPR 15 Clause 4.4.2	Radiated electromagnetic disturbances 30 MHz to 300 MHz	Compliance

Draft

1 – CONDUCTED EMISSIONS

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cisp} of Table 1, then:
–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.
If U_{lab} is greater than U_{cisp} of Table 1, then:
–compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
–non - compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit.

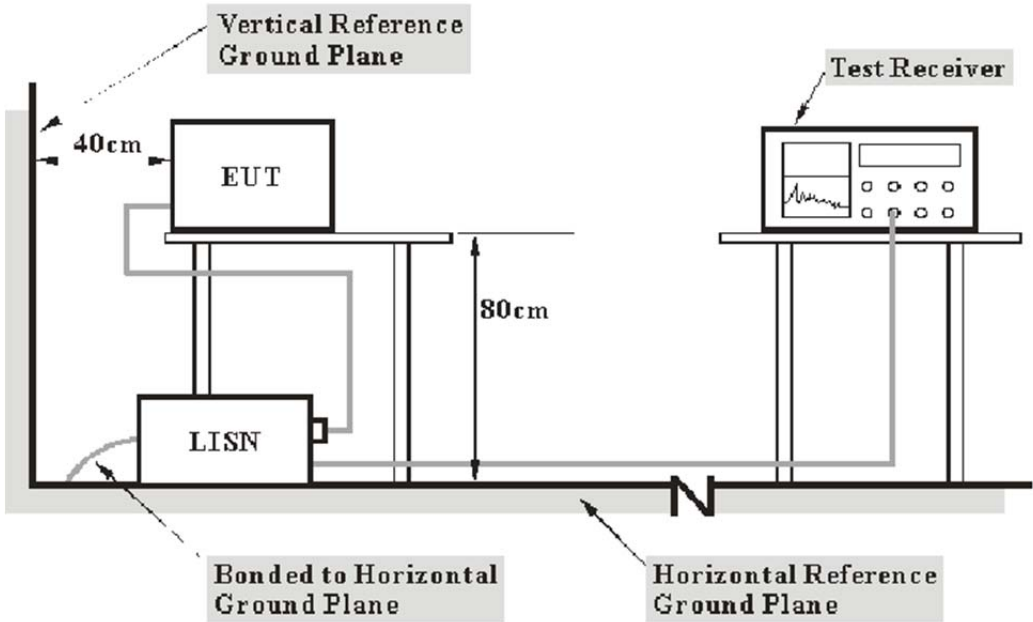
Based on CISPR 16-4-2: 2011[★], measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.12 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cisp}

Measurement	U_{cisp}
Conducted disturbance at mains port using AMN(150 kHz to 30 MHz)	3.4 dB

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test System Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with CISPR 16-1-1:2010+A1:2010[★], CISPR 16-2-1:2010[★] measurement procedure. The specification used was the CISPR 15 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The power of EUT was connected to a 240 V/50Hz AC power source.

EMI Test Receiver Setup

The EMI Test Receiver was set to investigate the spectrum from 9 kHz to 30 MHz.

During the conducted emission test, the EMI Test Receiver was set with the following configurations:

FrequencyRange	IF B/W
9 kHz – 150 kHz	200 Hz
150 kHz – 30 MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

All data was recorded in the Quasi-peak and averagedetection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result (QuasiPeak or Average) = Meter Reading + Corr.

Note:

Corr. = Cable loss + Factor of coupling device

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

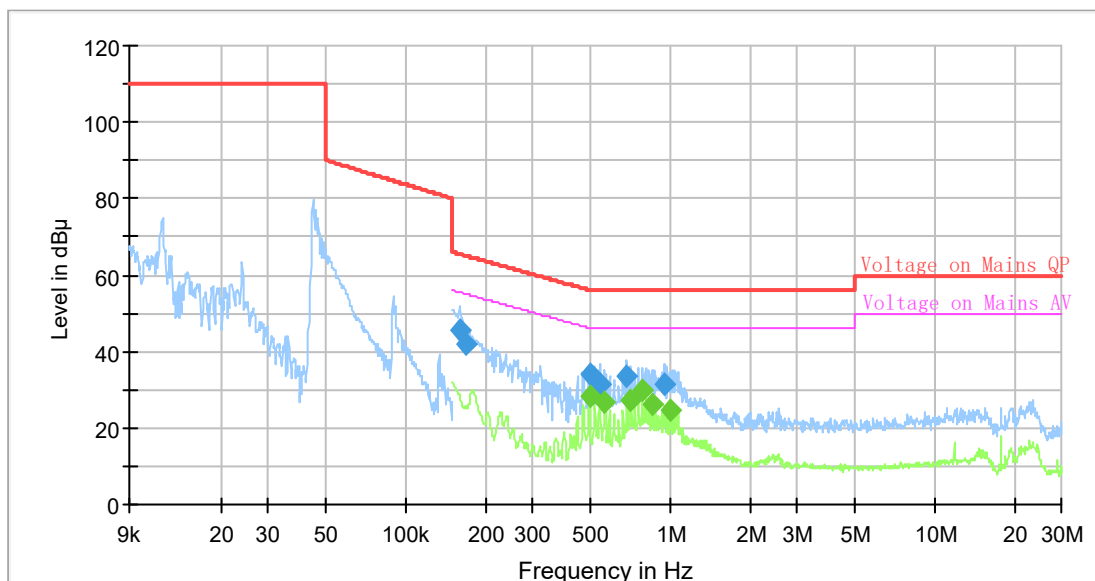
Margin = Limit – Result

Except for the recorded frequency points (no more than 6), the remaining frequency points have a margin more than 20dB.

Test Data

Please refer to following table and plots:

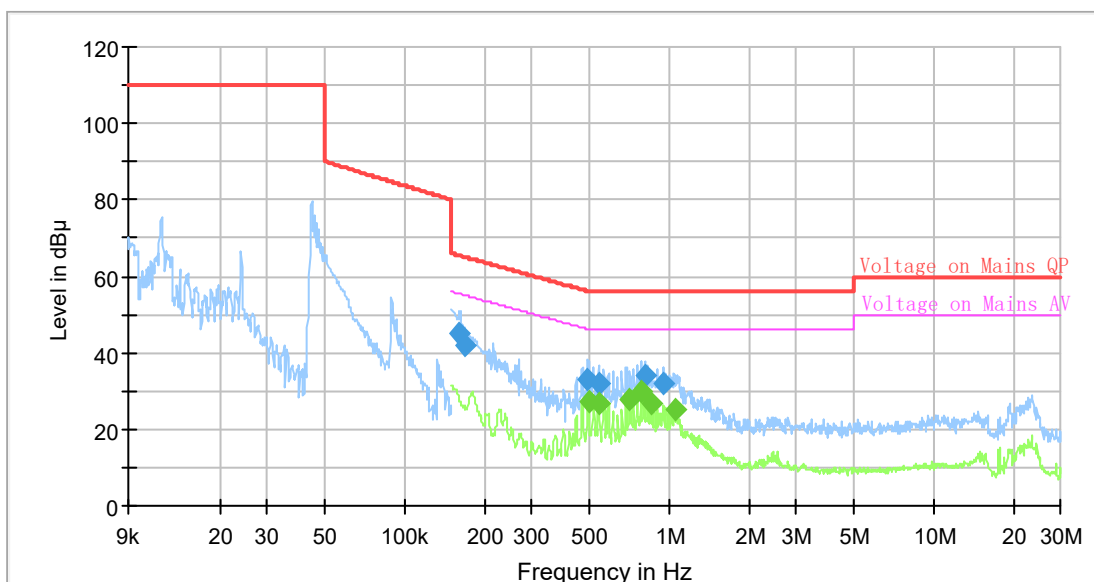
Model Number: U-TRI-20W-B-MS
 Port: L
 Test Mode: Lighting
 Power Source: AC 240V/50Hz
 Note:



Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.159252	45.43	---	65.50	20.07	9.000	L1	9.6
0.168233	42.10	---	65.05	22.95	9.000	L1	9.6
0.494060	---	28.17	46.10	17.93	9.000	L1	9.6
0.494060	34.09	---	56.10	22.01	9.000	L1	9.6
0.543169	31.24	---	56.00	24.76	9.000	L1	9.6
0.565280	---	26.61	46.00	19.39	9.000	L1	9.6
0.686657	33.47	---	56.00	22.53	9.000	L1	9.6
0.711054	---	27.31	46.00	18.69	9.000	L1	9.7
0.781732	---	29.61	46.00	16.39	9.000	L1	9.7
0.855159	---	26.38	46.00	19.62	9.000	L1	9.7
0.949586	31.54	---	56.00	24.46	9.000	L1	9.7
0.998148	---	24.67	46.00	21.33	9.000	L1	9.7

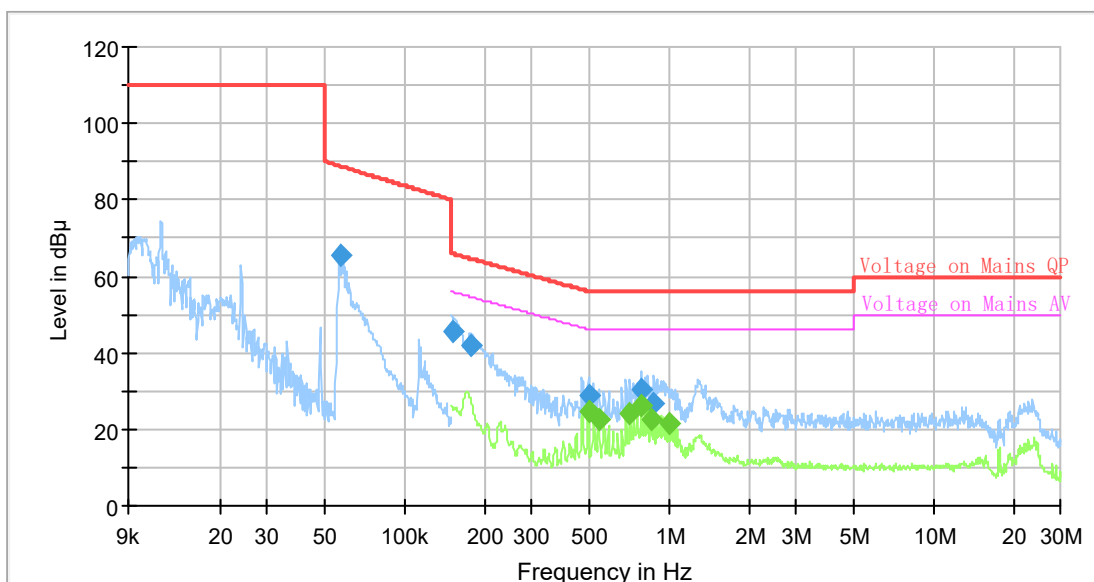
Model Number: U-TRI-20W-B-MS
Port: N
Test Mode: Lighting
Power Source: AC 240V/50Hz
Note:



Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.160048	45.09	---	65.46	20.37	9.000	N	9.6
0.168233	42.03	---	65.05	23.02	9.000	N	9.6
0.491602	32.80	---	56.14	23.34	9.000	N	9.6
0.494060	---	27.37	46.10	18.73	9.000	N	9.6
0.540467	---	26.78	46.00	19.22	9.000	N	9.6
0.540467	31.95	---	56.00	24.05	9.000	N	9.6
0.711054	---	27.81	46.00	18.19	9.000	N	9.6
0.781732	---	29.80	46.00	16.20	9.000	N	9.6
0.805479	34.29	---	56.00	21.71	9.000	N	9.6
0.855159	---	26.60	46.00	19.40	9.000	N	9.6
0.949586	32.19	---	56.00	23.81	9.000	N	9.6
1.049193	---	25.38	46.00	20.62	9.000	N	9.6

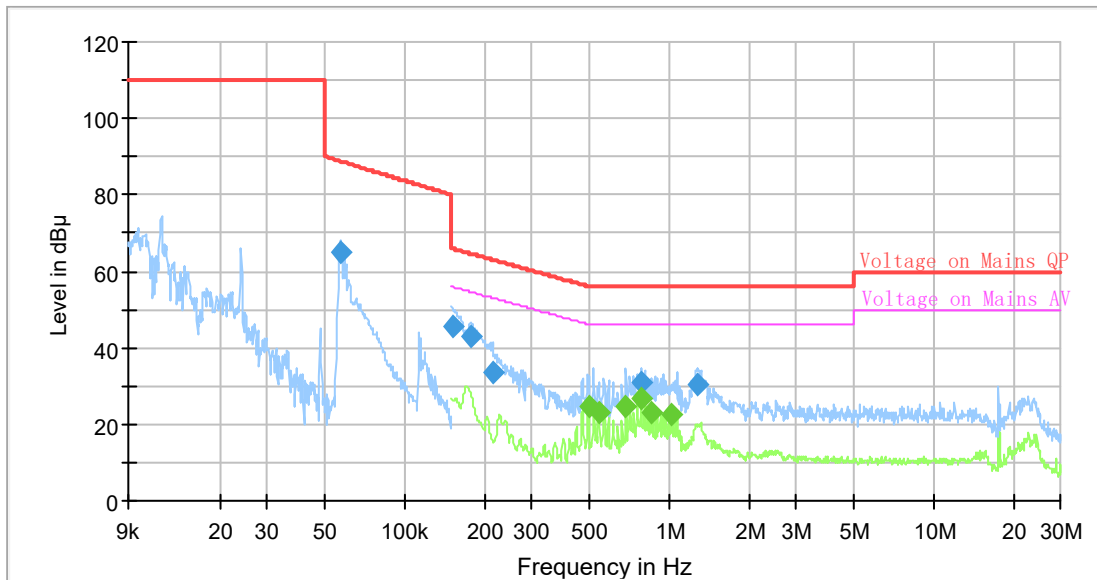
Model Number: U-TRI-24W-B-MS
Port: L
Test Mode: Lighting
Power Source: AC 240V/50Hz
Note:



Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.056692	65.62	---	88.86	23.24	0.200	L1	9.7
0.150750	45.47	---	65.96	20.49	9.000	L1	9.6
0.176836	41.89	---	64.63	22.74	9.000	L1	9.6
0.494060	---	24.50	46.10	21.60	9.000	L1	9.6
0.494060	28.83	---	56.10	27.27	9.000	L1	9.6
0.540467	---	22.62	46.00	23.38	9.000	L1	9.6
0.711054	---	24.35	46.00	21.65	9.000	L1	9.7
0.781732	---	26.00	46.00	20.00	9.000	L1	9.7
0.781732	30.48	---	56.00	25.52	9.000	L1	9.7
0.855159	---	22.75	46.00	23.25	9.000	L1	9.7
0.876753	26.85	---	56.00	29.15	9.000	L1	9.7
0.998148	---	21.41	46.00	24.59	9.000	L1	9.7

Model Number: U-TRI-24W-B-MS
Port: N
Test Mode: Lighting
Power Source: AC 240V/50Hz
Note:

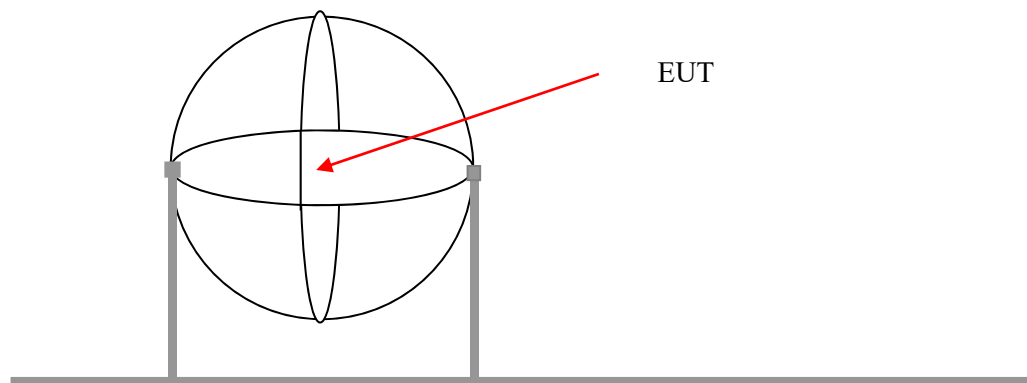


Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.056975	65.03	---	88.81	23.78	0.200	N	9.6
0.150750	45.80	---	65.96	20.16	9.000	N	9.6
0.178609	42.77	---	64.55	21.78	9.000	N	9.6
0.214807	33.60	---	63.02	29.42	9.000	N	9.6
0.494060	---	24.63	46.10	21.47	9.000	N	9.6
0.540467	---	23.20	46.00	22.80	9.000	N	9.6
0.686657	---	24.48	46.00	21.52	9.000	N	9.6
0.781732	---	26.68	46.00	19.32	9.000	N	9.6
0.781732	31.12	---	56.00	24.88	9.000	N	9.6
0.855159	---	23.11	46.00	22.89	9.000	N	9.6
1.023352	---	22.34	46.00	23.66	9.000	N	9.6
1.274476	30.48	---	56.00	25.52	9.000	N	9.6

2 - RADIATED ELECTROMAGNETIC DISTURBANCES 9 KHZ TO 30 MHZ

EUT System Setup



EMI Test Receiver Setup

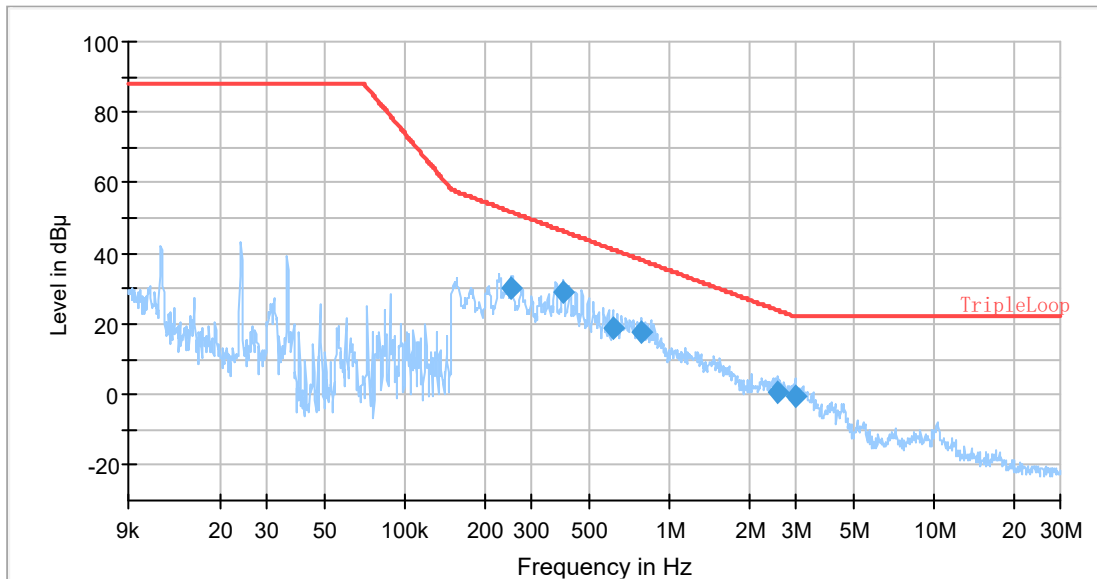
During the radiated emission test, the EMI test receiver was set with the following configurations:

FrequencyRange	IF B/W
9 kHz – 150 kHz	200 Hz
150 kHz – 30 MHz	9 kHz

Test Data

Please refer to following table and plots:

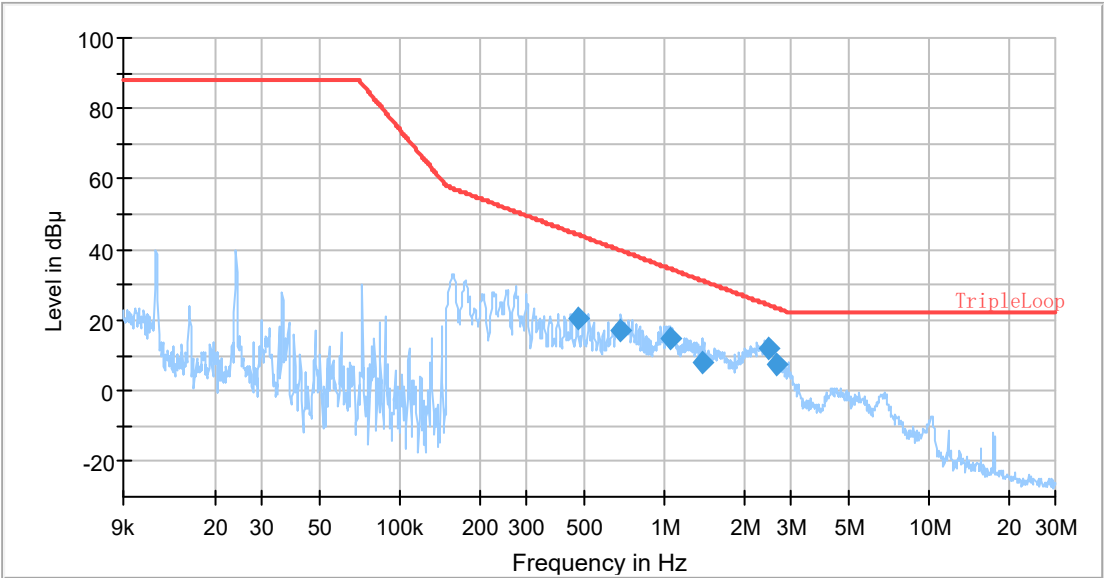
Model Number: U-TRI-20W-B-MS
Port: X
Test Mode: Lighting
Power Source: AC 240V/50Hz
Note:



Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Bandwidth (kHz)	Axis	Corr. (dB)
0.251978	30.33	51.77	21.44	9.000	X	-15.2
0.396710	29.09	46.31	17.22	9.000	X	-15.5
0.609193	18.69	41.16	22.47	9.000	X	-15.5
0.781732	17.69	38.16	20.47	9.000	X	-15.7
2.574819	0.67	23.84	23.17	9.000	X	-15.4
2.975518	-0.26	22.10	22.36	9.000	X	-15.4

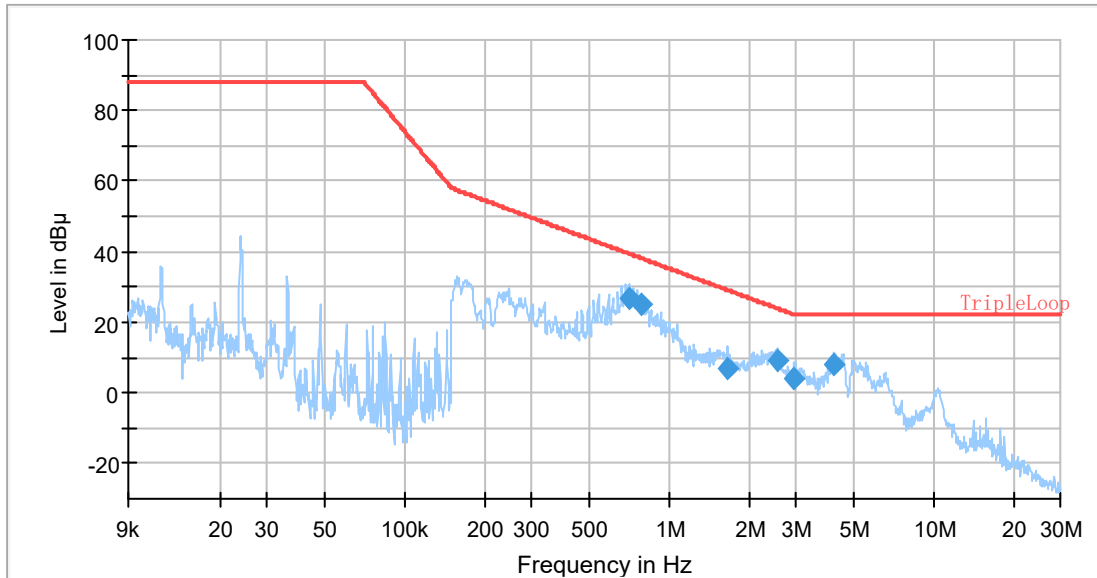
Model Number: U-TRI-20W-B-MS
Port: Y
Test Mode: Lighting
Power Source: AC 240V/50Hz
Note:



Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Bandwidth (kHz)	Axis	Corr. (dB)
0.470024	20.73	44.27	23.54	9.000	Y	-15.5
0.686658	17.21	39.72	22.51	9.000	Y	-15.7
1.049194	14.83	34.63	19.80	9.000	Y	-15.8
1.394187	8.19	31.21	23.02	9.000	Y	-15.7
2.461797	11.93	24.38	12.45	9.000	Y	-15.7
2.639837	7.53	23.54	16.01	9.000	Y	-15.7

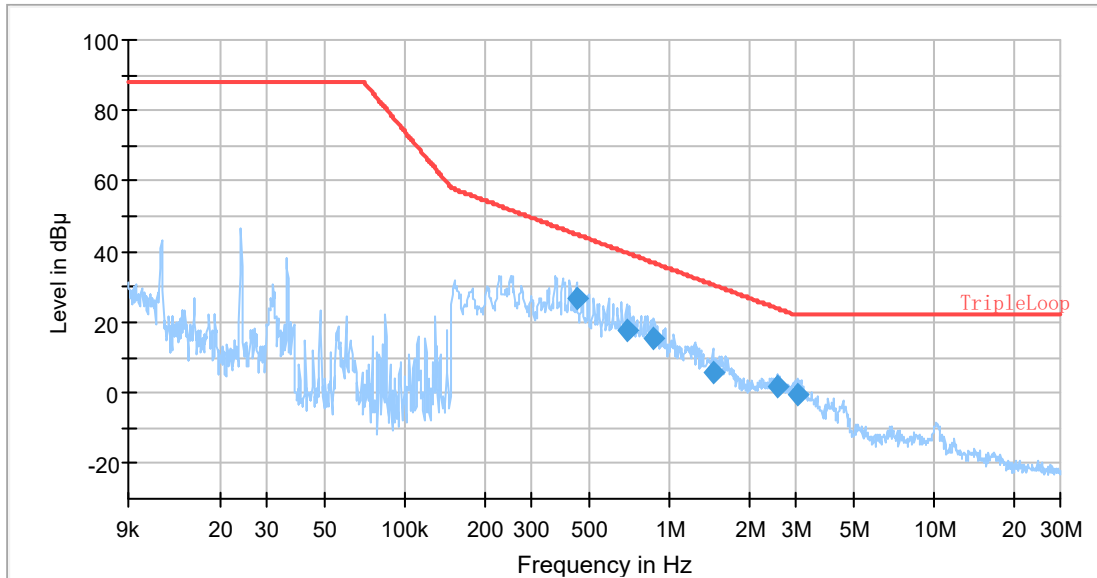
Model Number: U-TRI-20W-B-MS
Port: Z
Test Mode: Lighting
Power Source: AC 240V/50Hz
Note:



Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Bandwidth (kHz)	Axis	Corr. (dB)
0.707517	26.83	39.36	12.53	9.000	Z	-15.8
0.781732	25.21	38.16	12.95	9.000	Z	-15.9
1.651837	6.98	29.17	22.19	9.000	Z	-15.7
2.562009	9.22	23.90	14.68	9.000	Z	-15.8
2.960714	4.02	22.16	18.14	9.000	Z	-15.9
4.197791	8.18	22.00	13.82	9.000	Z	-16.2

Model Number: U-TRI-24W-B-MS
Port: X
Test Mode: Lighting
Power Source: AC 240V/50Hz
Note:



Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Bandwidth (kHz)	Axis	Corr. (dB)
0.444931	26.97	44.93	17.96	9.000	X	-15.5
0.690091	17.68	39.66	21.98	9.000	X	-15.6
0.876753	15.27	36.78	21.51	9.000	X	-15.7
1.458195	5.64	30.67	25.03	9.000	X	-15.5
2.562009	2.03	23.90	21.87	9.000	X	-15.4
3.035476	-0.40	22.00	22.40	9.000	X	-15.4

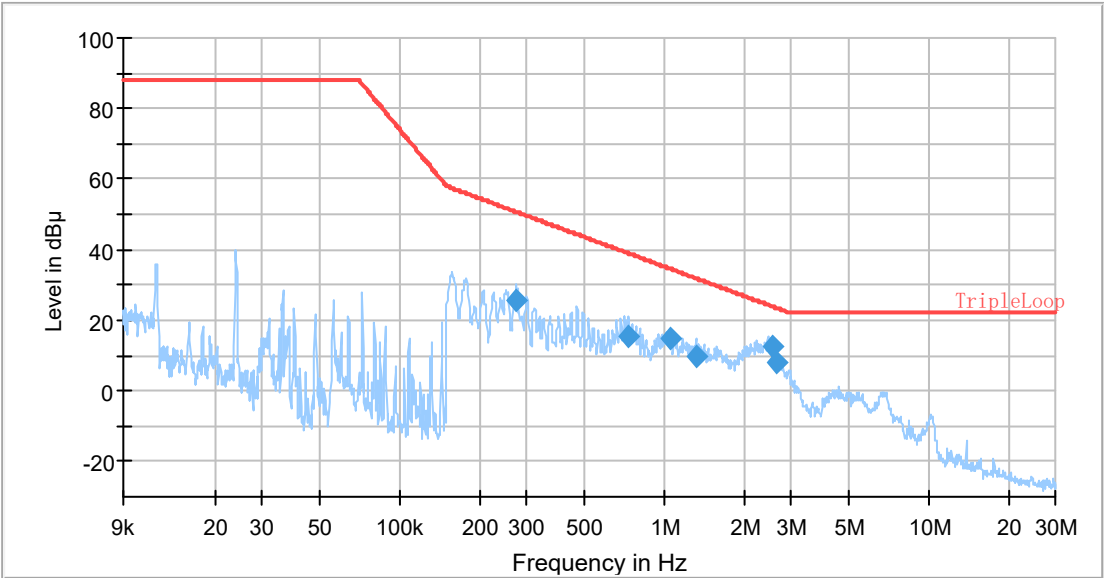
Model Number:U-TRI-24W-B-MS

Port:Y

Test Mode:Lighting

Power Source:AC 240V/50Hz

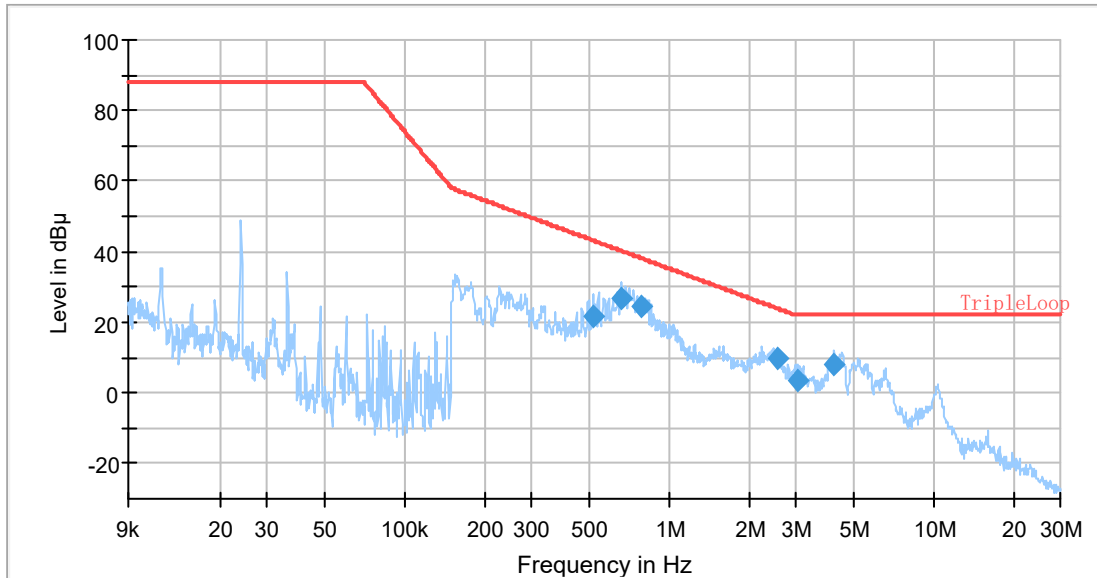
Note:



Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Bandwidth (kHz)	Axis	Corr. (dB)
0.274274	25.37	50.75	25.38	9.000	Y	-15.2
0.736318	15.52	38.88	23.36	9.000	Y	-15.7
1.049194	14.60	34.63	20.03	9.000	Y	-15.8
1.313193	9.87	31.93	22.06	9.000	Y	-15.7
2.562009	12.44	23.90	11.46	9.000	Y	-15.7
2.653036	8.16	23.48	15.32	9.000	Y	-15.7

Model Number: U-TRI-24W-B-MS
Port: Z
Test Mode: Lighting
Power Source: AC 240V/50Hz
Note:



Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Bandwidth (kHz)	Axis	Corr. (dB)
0.514172	21.83	43.20	21.37	9.000	Z	-15.6
0.659799	26.71	40.20	13.49	9.000	Z	-15.7
0.781732	24.75	38.16	13.41	9.000	Z	-15.9
2.562009	9.61	23.90	14.29	9.000	Z	-15.8
3.035476	3.45	22.00	18.55	9.000	Z	-15.9
4.197791	8.18	22.00	13.82	9.000	Z	-16.2

3 - RADIATED ELECTROMAGNETIC DISTURBANCES 30 MHZ TO 300 MHZ

Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cisp} of Table 1, then:

- 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.

If U_{lab} is greater than U_{cisp} of Table 1, then:

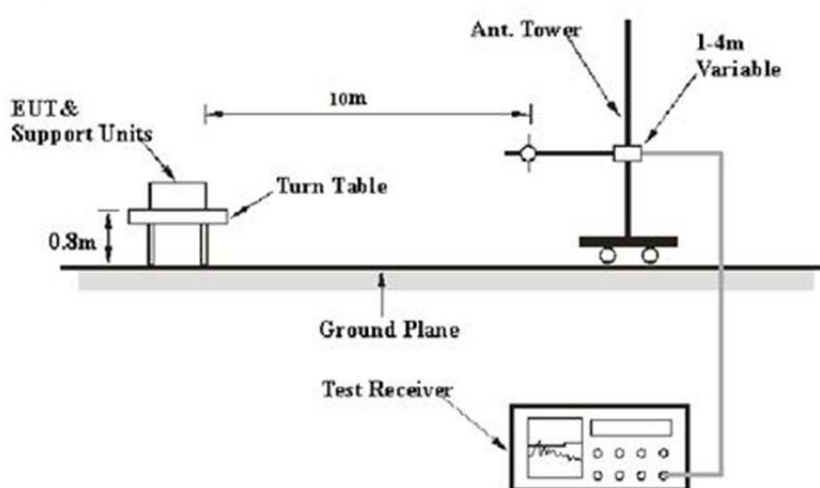
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011^{*}, measurement uncertainty of radiated emission at a distance of 10m at Bay Area Compliance Laboratories Corp. (Dongguan) is: 30M~200MHz: 4.55 dB for Horizontal, 4.57 dB for Vertical; 200M~1GHz: 4.66 dB for Horizontal, 4.56 dB for Vertical; measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is: 30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical; 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB.

Table 1 – Values of U_{cisp}

Measurement	U_{cisp}
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

Test System Setup



The radiated emission tests were performed in the 10 meters chamber test site, using the setup accordance with the CISPR 16-1-1:2010+A1:2010^{*}, CISPR16-2-3:2010^{*}. The specification used was CISPR 15.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The power was connected to 240 V/50Hz AC power source.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 300MHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

FrequencyRange	RBW	Video B/W	IF B/W	Detector
30MHz – 300 MHz	120 kHz	300 kHz	120kHz	QP

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

If the maximized peak measured value complies with under the QP limit more than 6dB, then it is unnecessary to perform QP measurement.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Meter Reading + Corrected

Note:

Corrected = Antenna Factor + Cable Loss - Amplifier Gain

or

Corrected = Antenna Factor + Cable Loss + Insertion loss of attenuator - Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

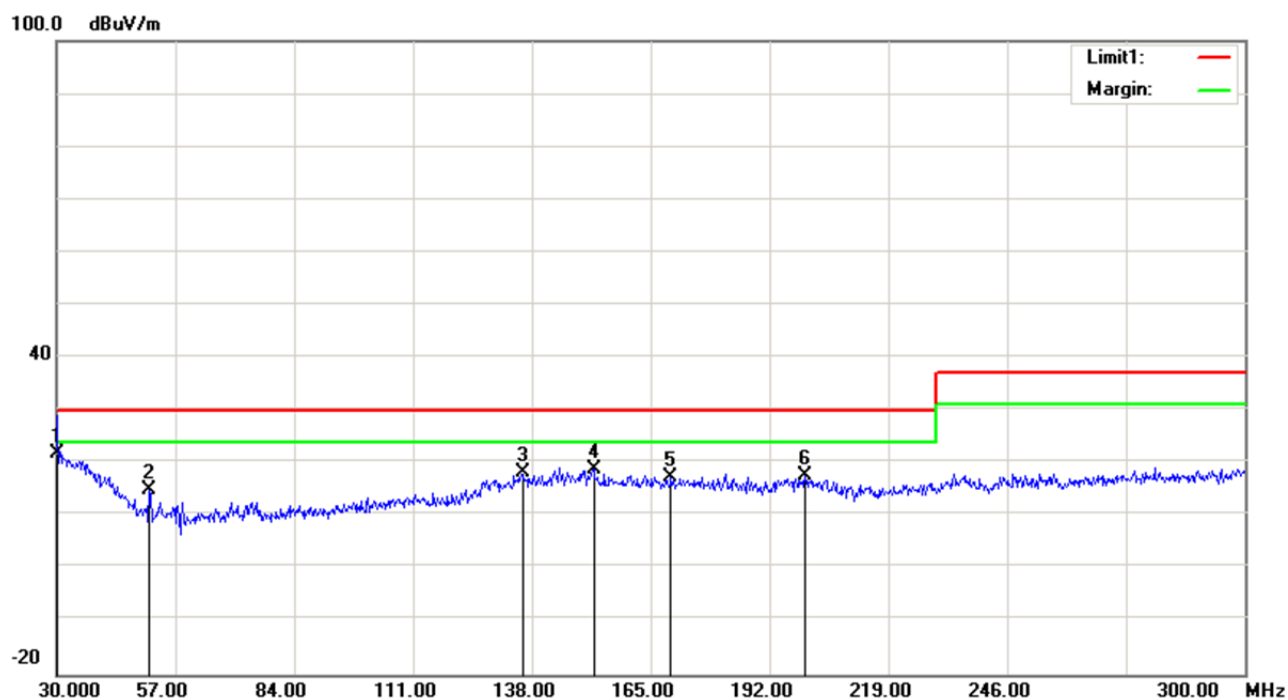
Margin = Limit – Result

Test Data

Please refer to following table and plots:

Condition: CISPR 15
EUT: LED Tri-proof Light
Model: U-TRI-20W-B-MS
Test Mode: Lighting
Note:

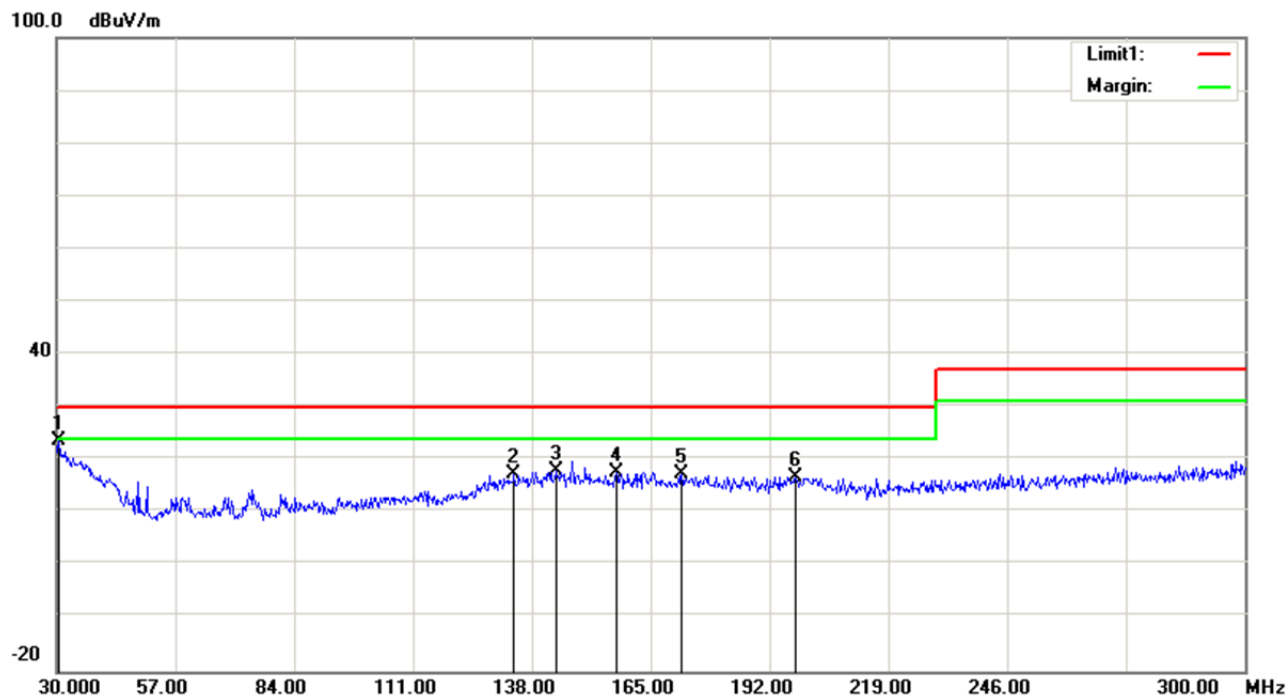
Polarization: Horizontal
Power: AC 240V/50Hz
Distance: 10m



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	30.0000	26.10	QP	-4.10	22.00	30.00	8.00
2	51.0600	31.13	peak	-16.25	14.88	30.00	15.12
3	136.1100	27.35	peak	-9.25	18.10	30.00	11.90
4	152.0400	28.13	peak	-9.25	18.88	30.00	11.12
5	169.5900	26.99	peak	-9.53	17.46	30.00	12.54
6	200.1000	26.86	peak	-9.20	17.66	30.00	12.34

Condition: CISPR 15
EUT: LED Tri-proof Light
Model: U-TRI-20W-B-MS
Test Mode: Lighting
Note:

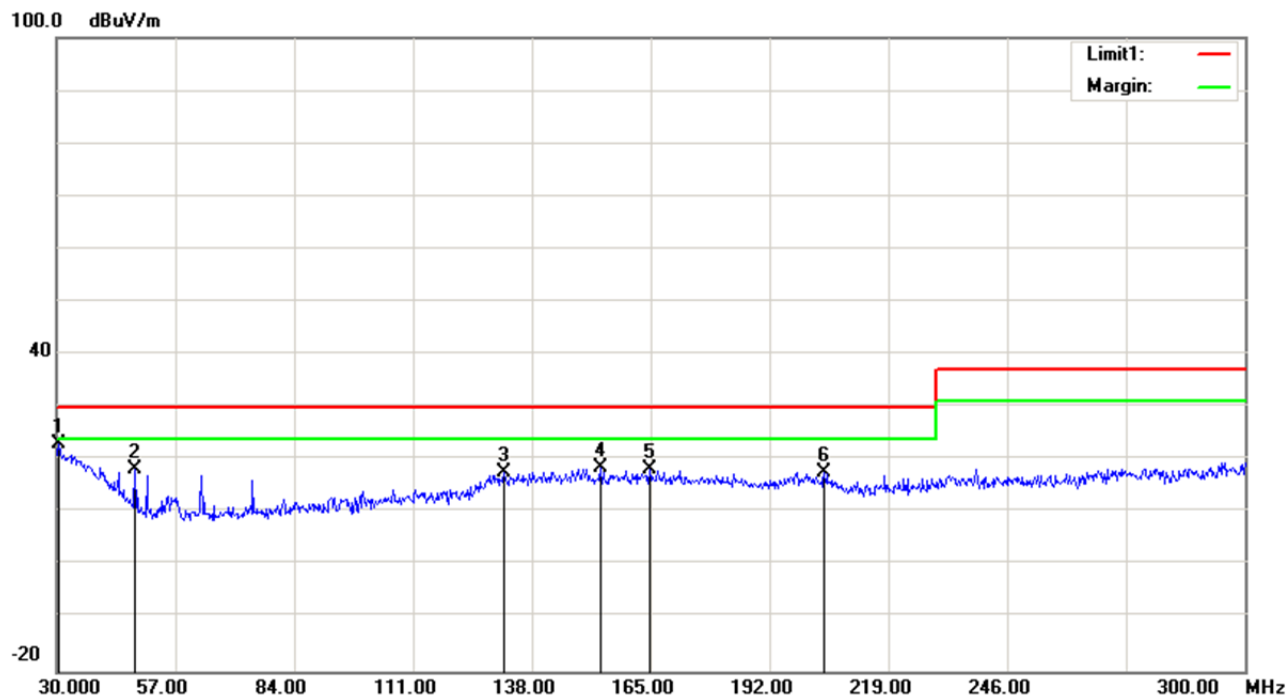
Polarization: Vertical
Power: AC 240V/50Hz
Distance: 10m



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	30.5400	28.02	peak	-4.41	23.61	30.00	6.39
2	133.9500	26.95	peak	-9.64	17.31	30.00	12.69
3	143.4000	26.90	peak	-9.03	17.87	30.00	12.13
4	157.1700	27.12	peak	-9.36	17.76	30.00	12.24
5	172.0200	26.83	peak	-9.45	17.38	30.00	12.62
6	197.9400	26.37	peak	-9.57	16.80	30.00	13.20

Condition: CISPR 15
EUT: LED Tri-proof Light
Model: U-TRI-24W-B-MS
Test Mode: Lighting
Note:

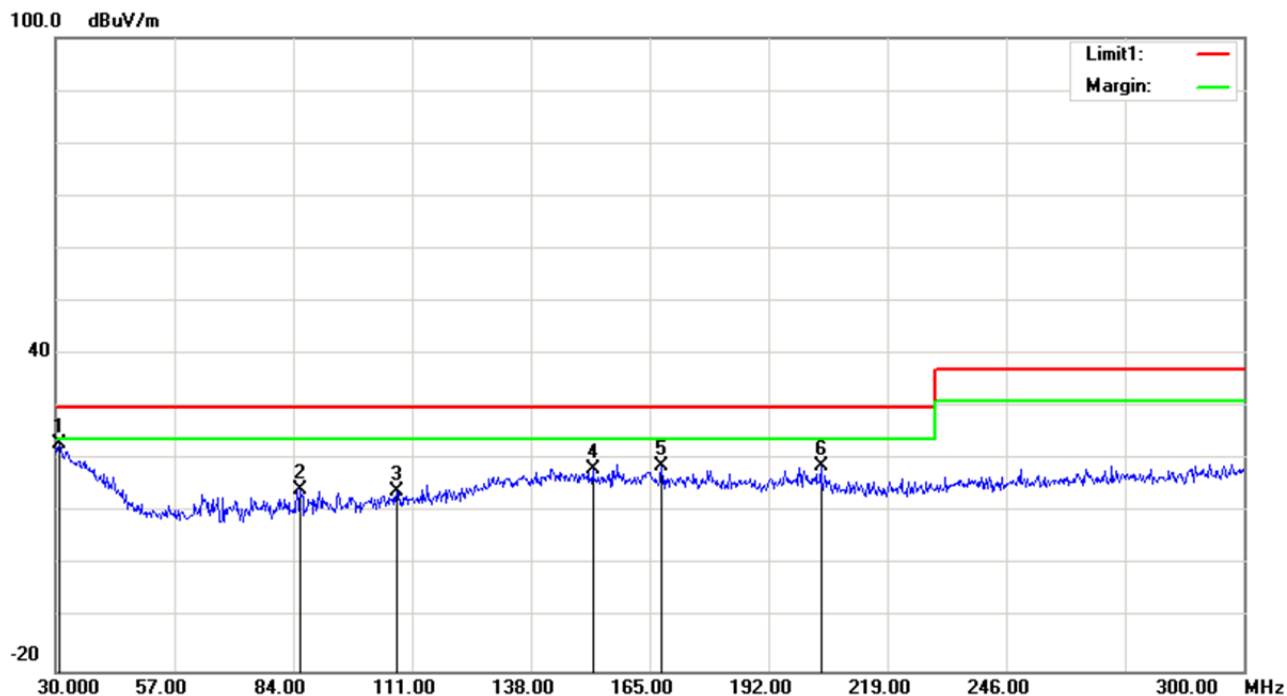
Polarization: Horizontal
Power: AC 240V/50Hz
Distance: 10m



No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	30.5400	27.56	peak	-4.41	23.15	30.00	6.85
2	47.8200	32.81	peak	-14.69	18.12	30.00	11.88
3	131.5200	27.17	peak	-9.62	17.55	30.00	12.45
4	153.6600	28.01	peak	-9.38	18.63	30.00	11.37
5	164.7300	27.77	peak	-9.39	18.38	30.00	11.62
6	204.4200	27.71	peak	-10.12	17.59	30.00	12.41

Condition: CISPR 15
EUT: LED Tri-proof Light
Model: U-TRI-24W-B-MS
Test Mode: Lighting
Note:

Polarization: Vertical
Power: AC 240V/50Hz
Distance: 10m

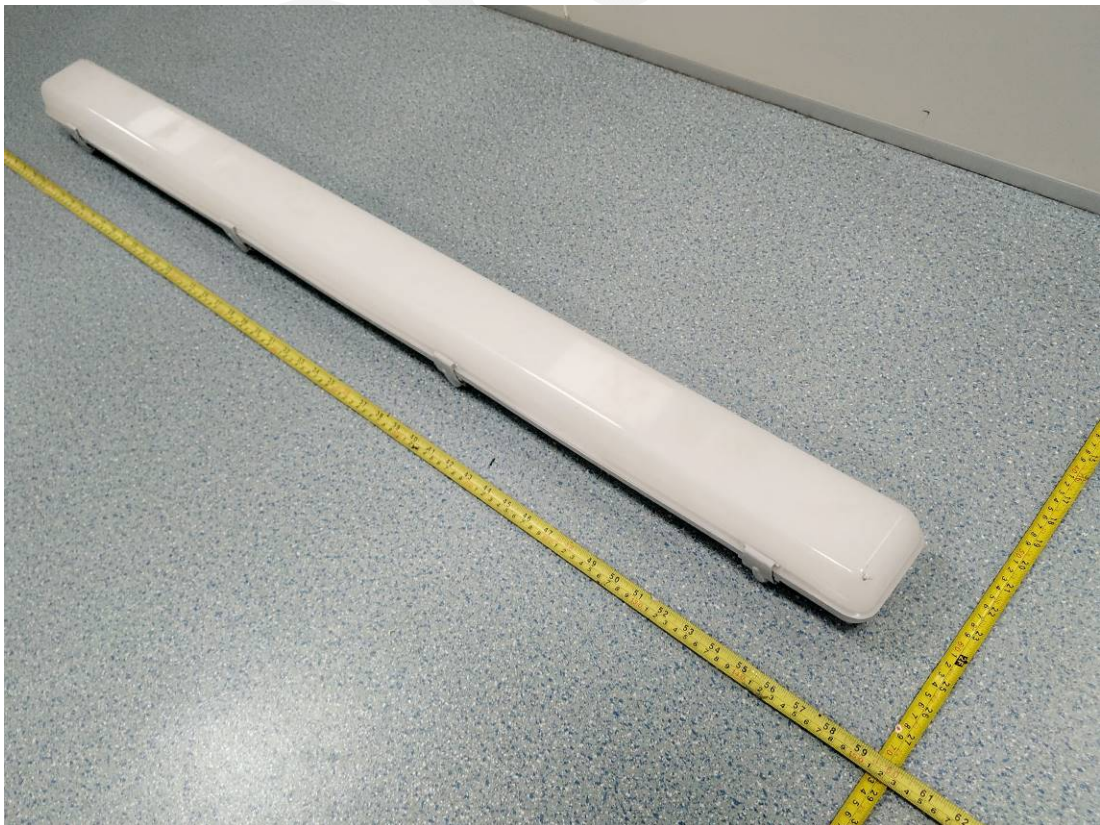


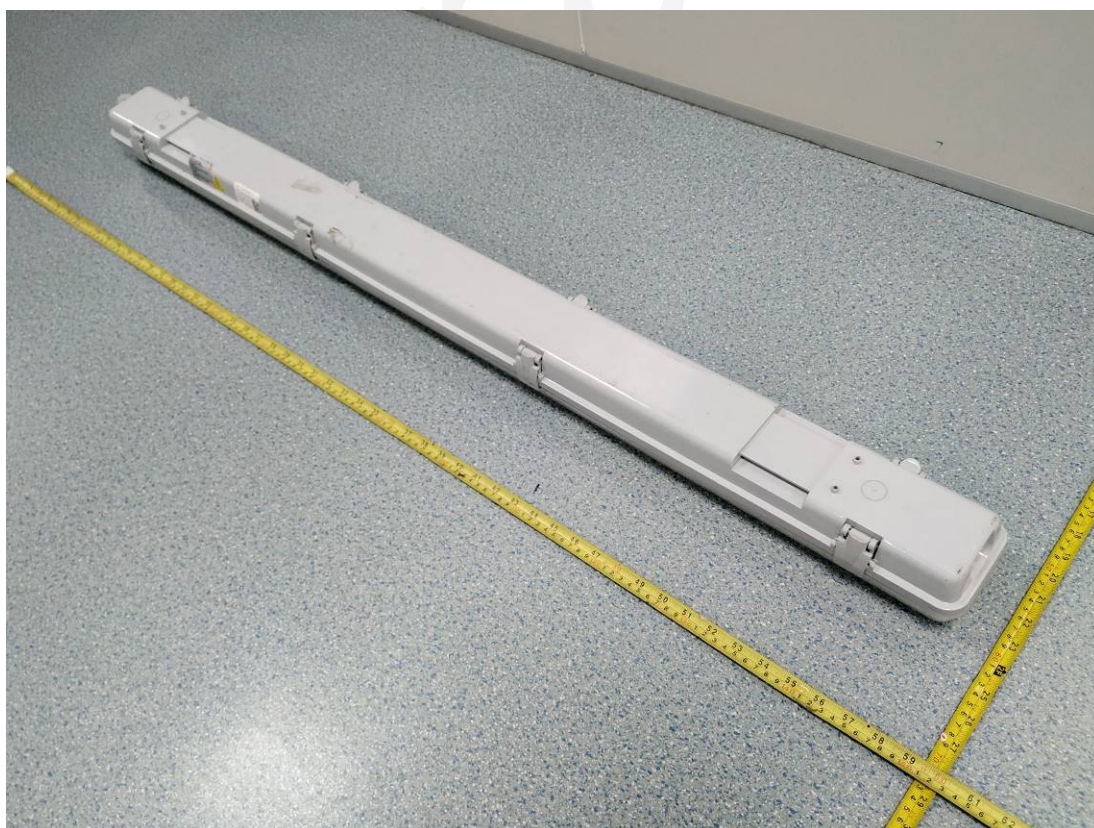
No.	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1	30.8100	27.57	peak	-4.57	23.00	30.00	7.00
2	85.6200	29.75	peak	-15.37	14.38	30.00	15.62
3	107.4900	27.12	peak	-13.14	13.98	30.00	16.02
4	152.0400	27.65	peak	-9.25	18.40	30.00	11.60
5	167.7000	28.23	peak	-9.45	18.78	30.00	11.22
6	203.8800	28.84	peak	-10.00	18.84	30.00	11.16

EXHIBITA – EUT PHOTOGRAPHS

U-TRI-20W-B-MS

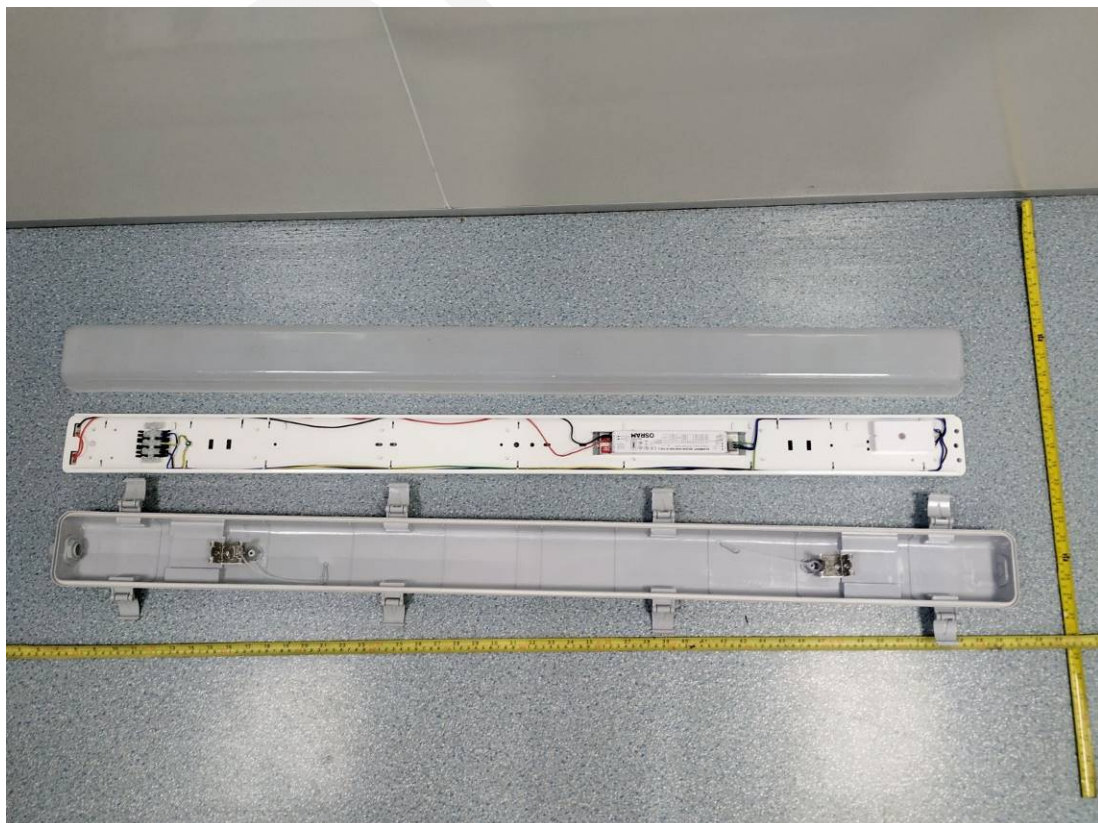
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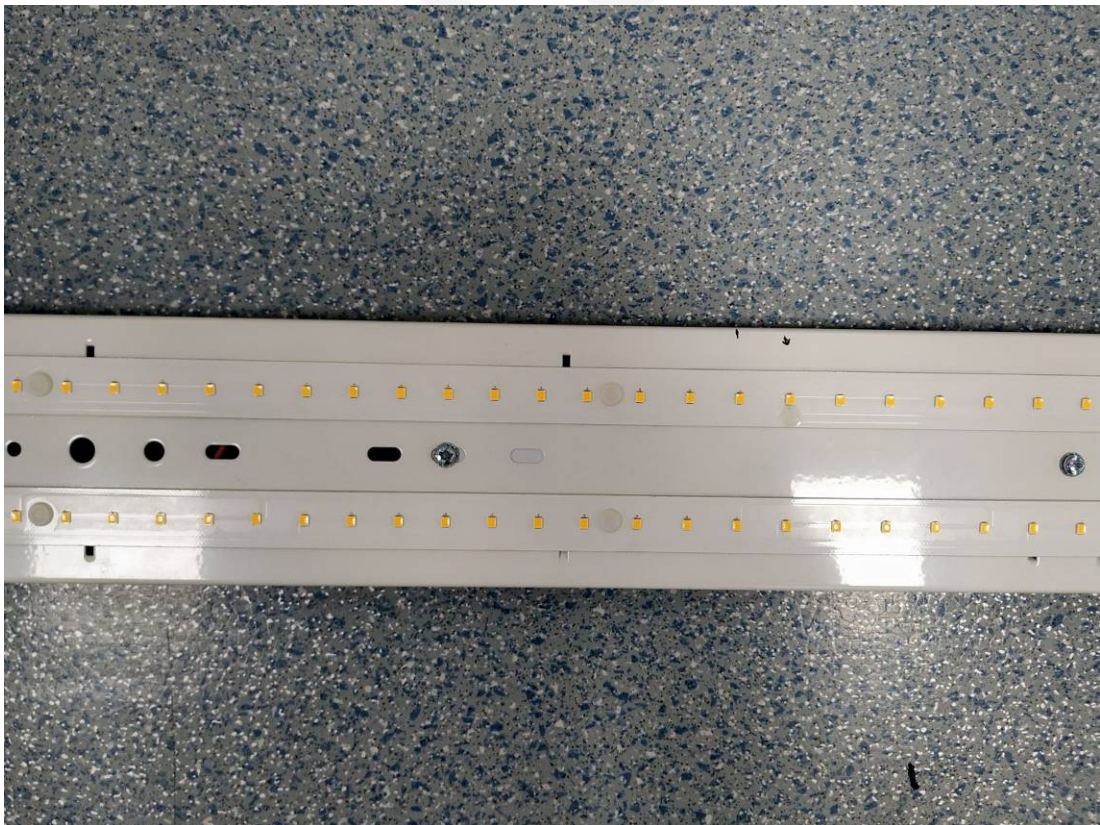
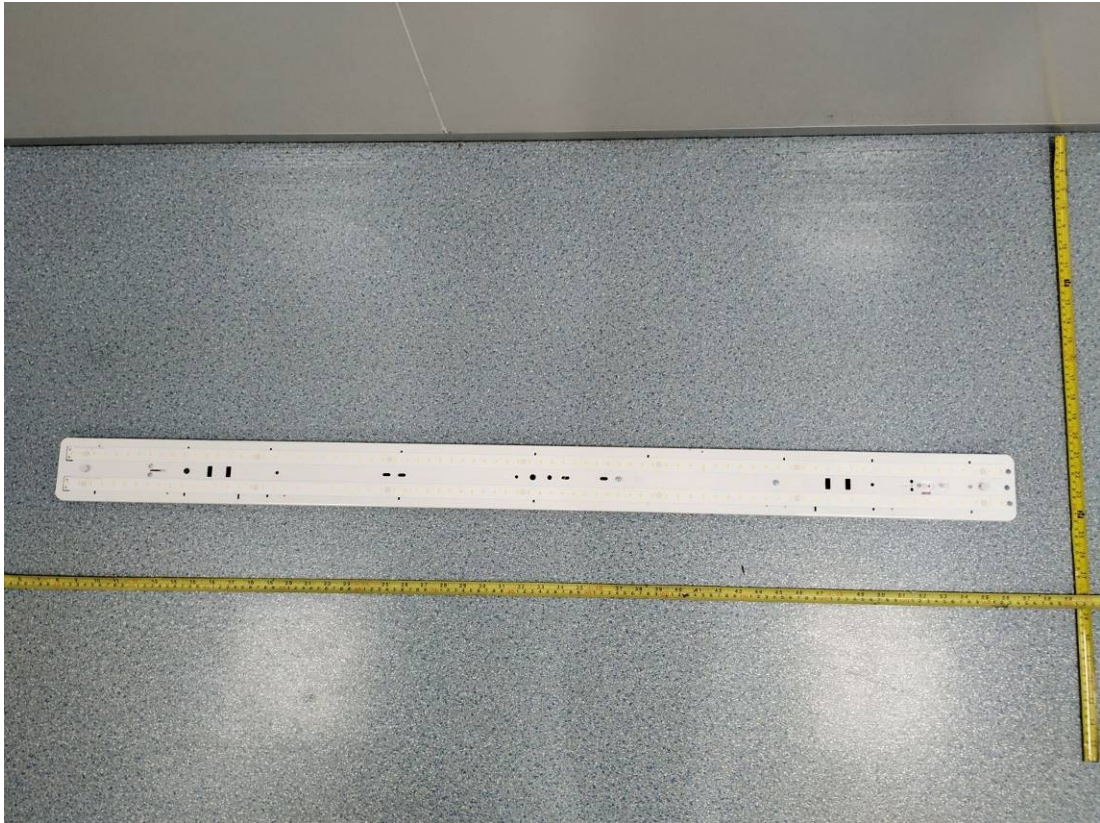


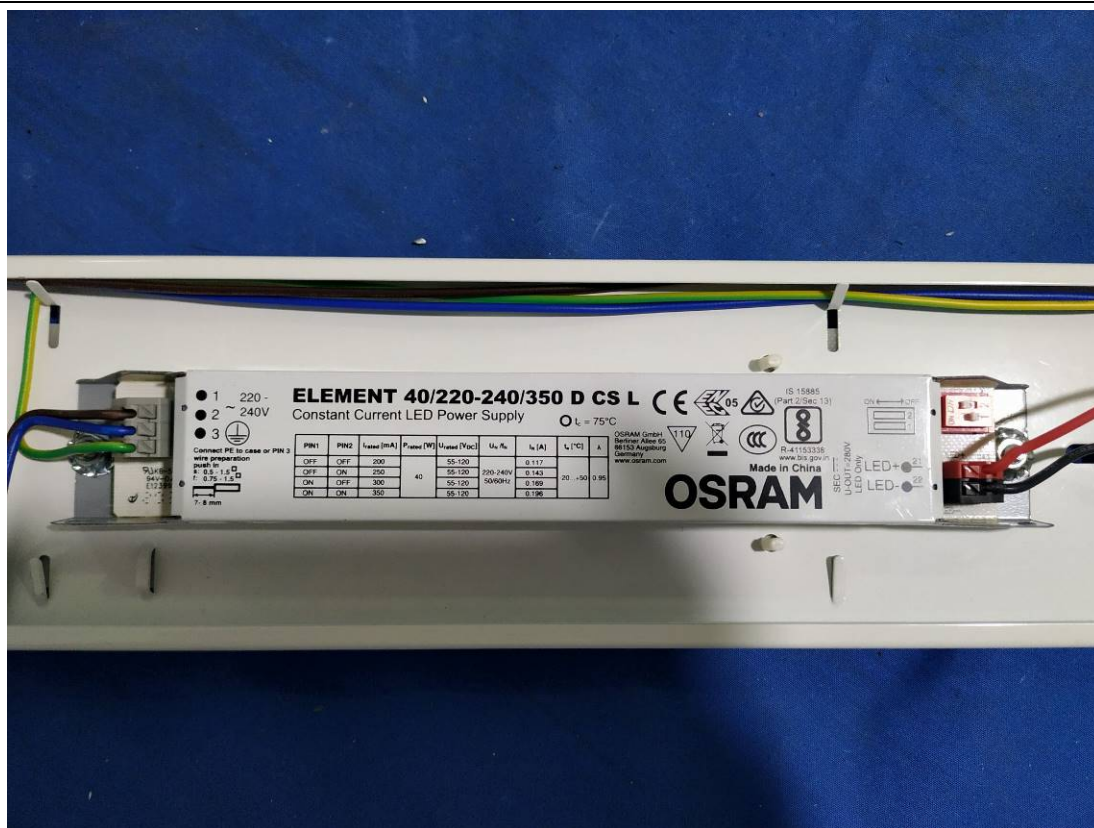


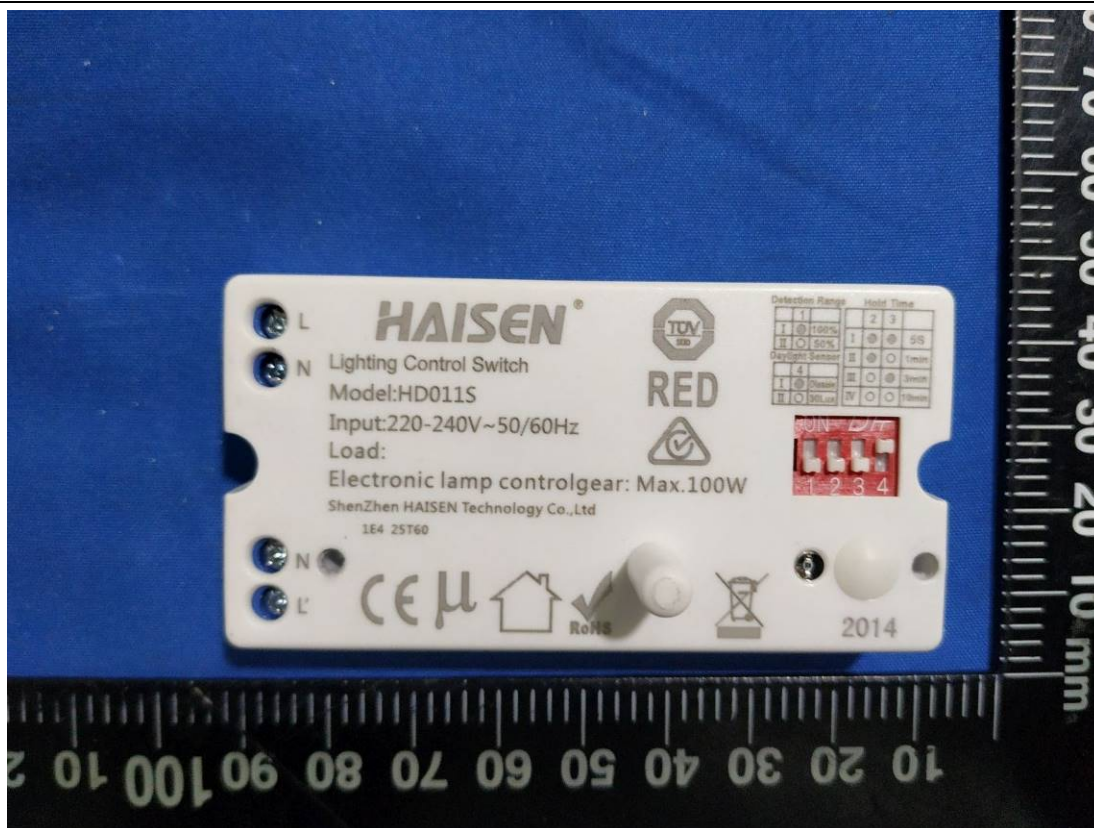


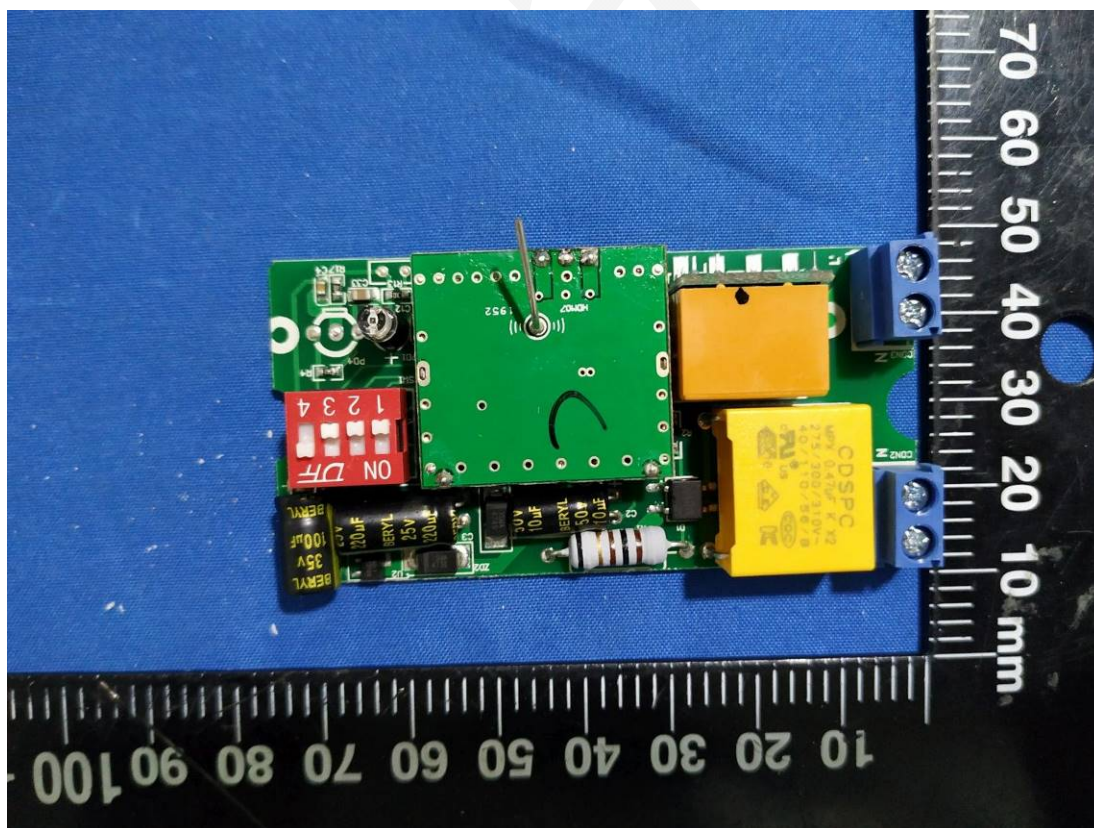
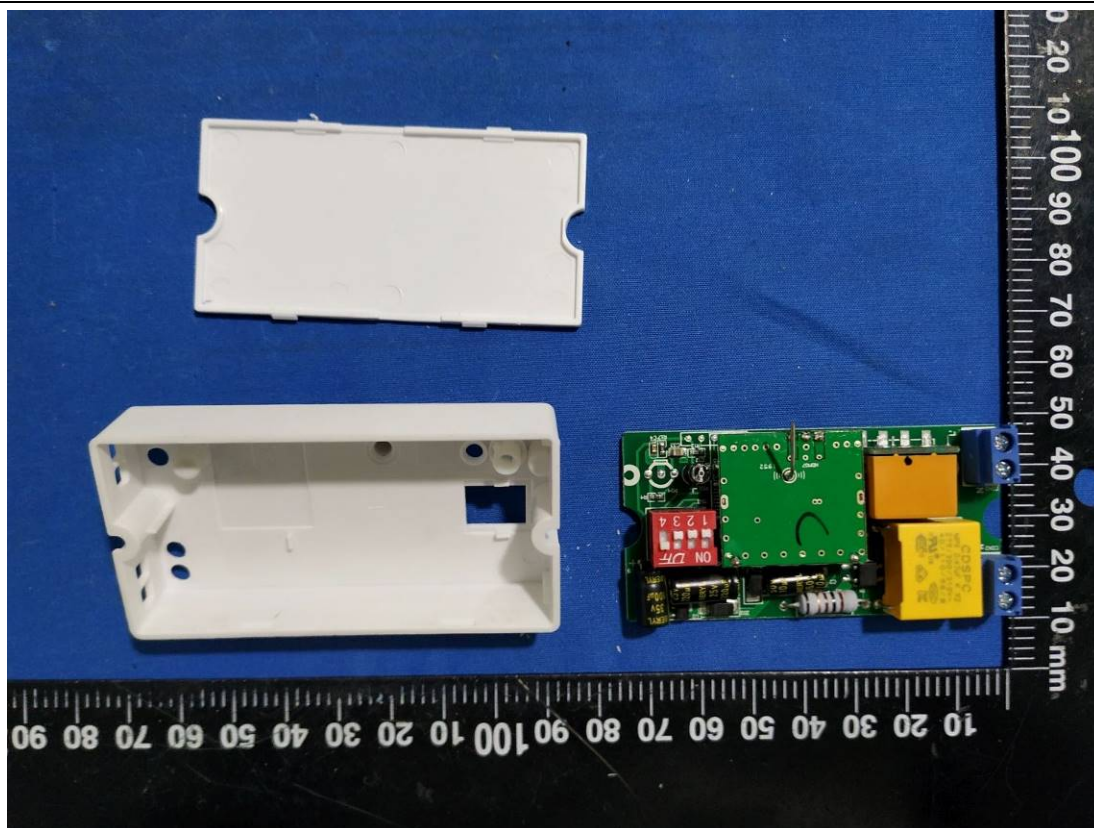
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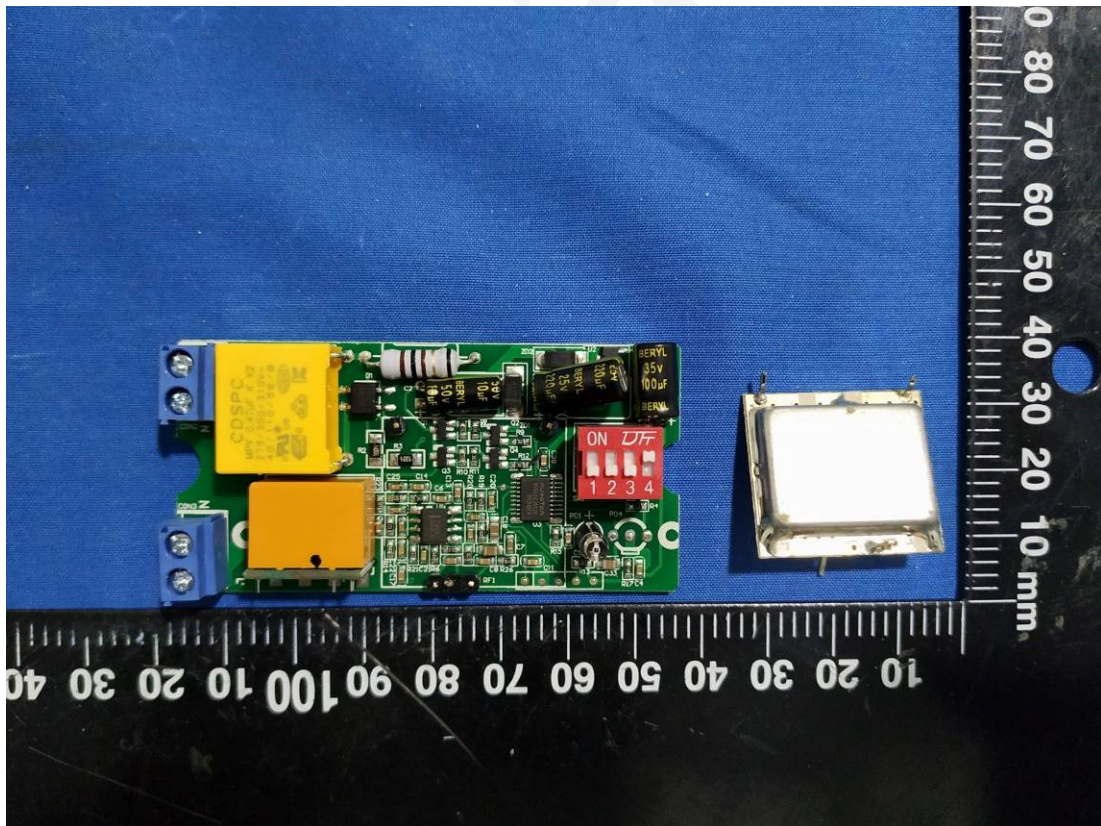
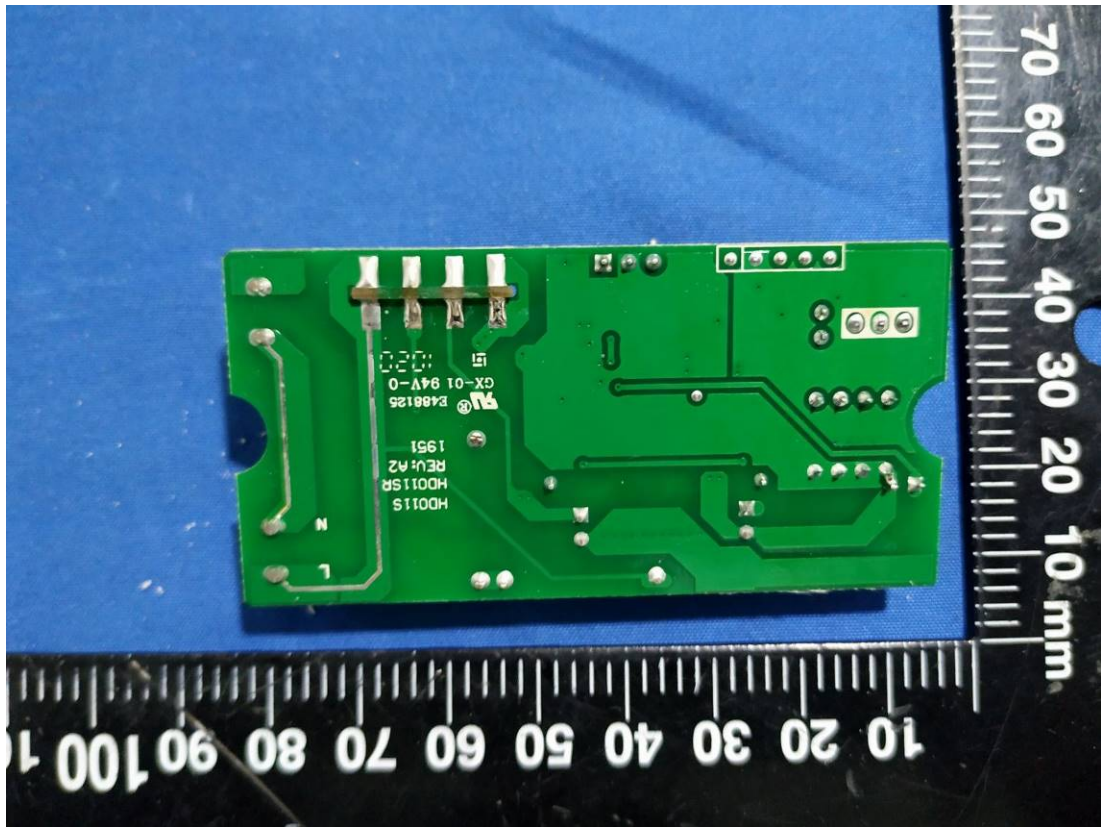


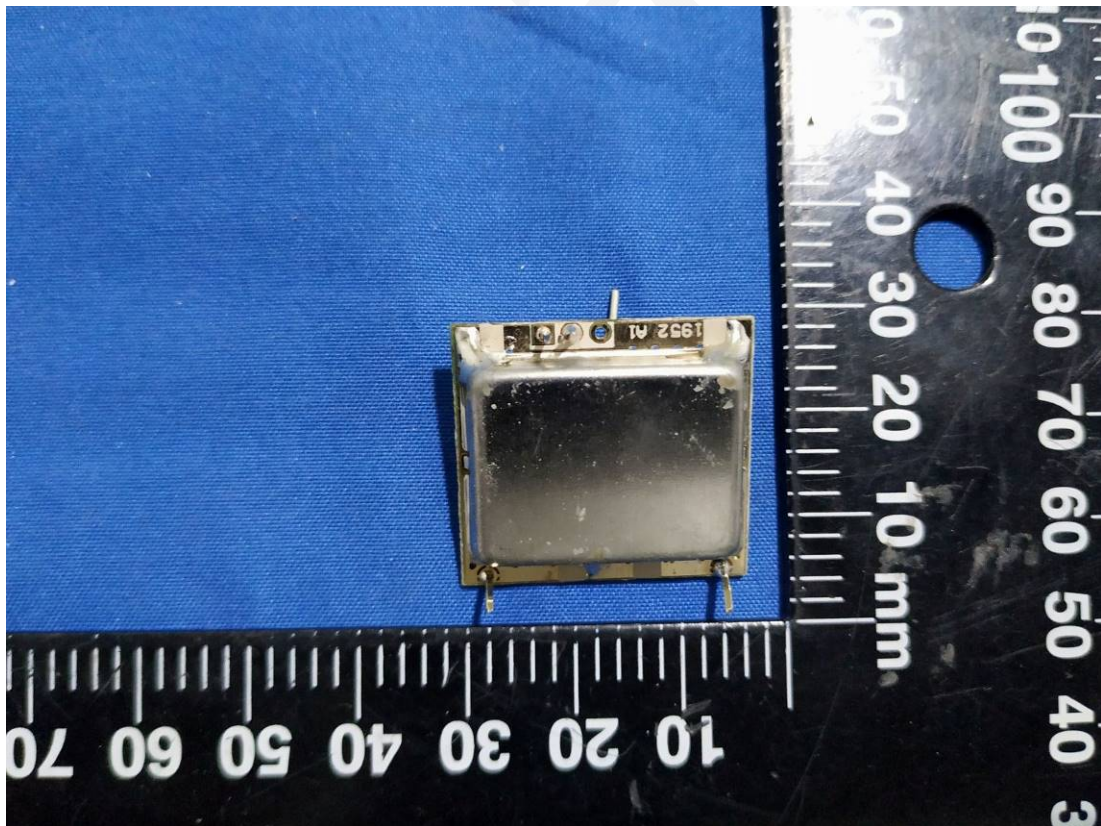
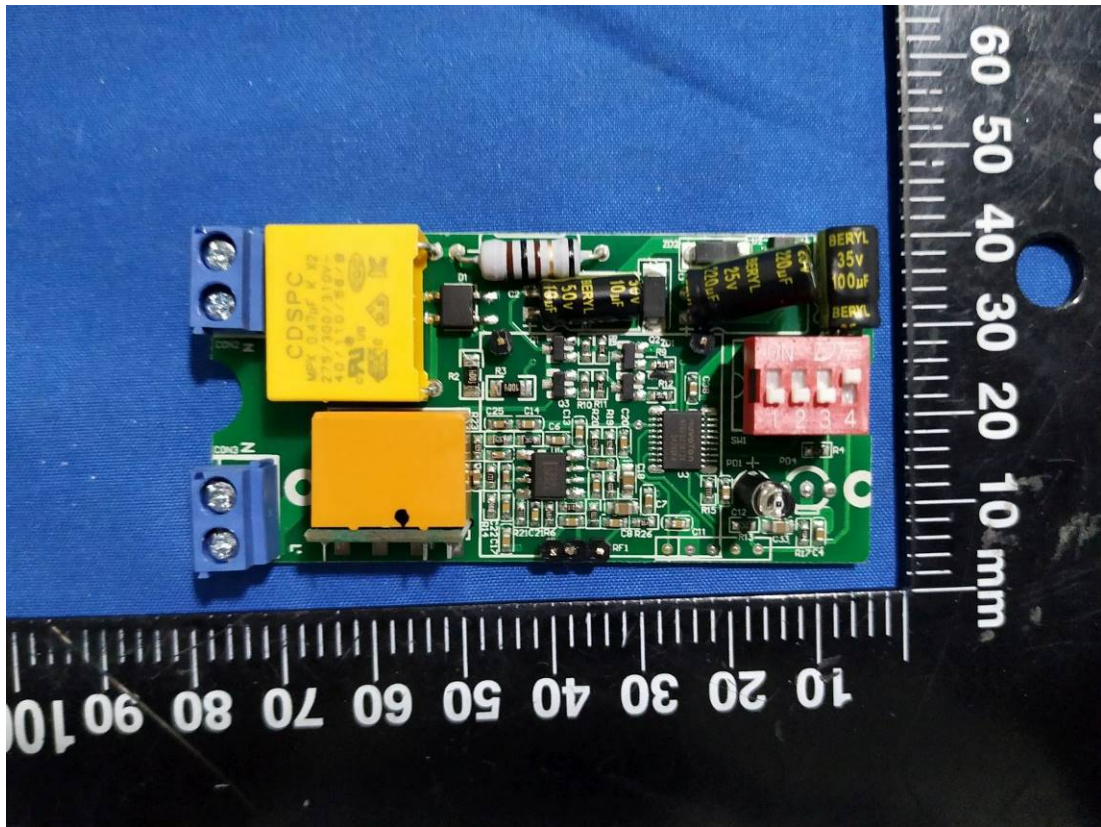


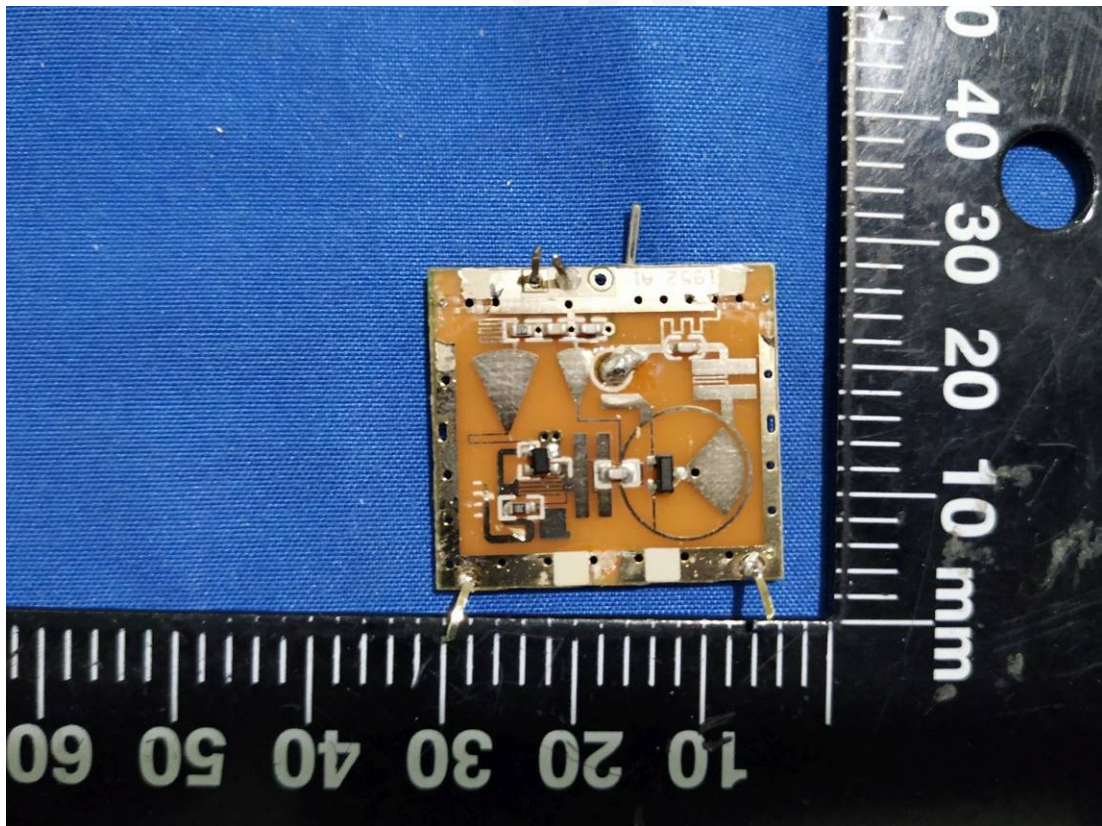
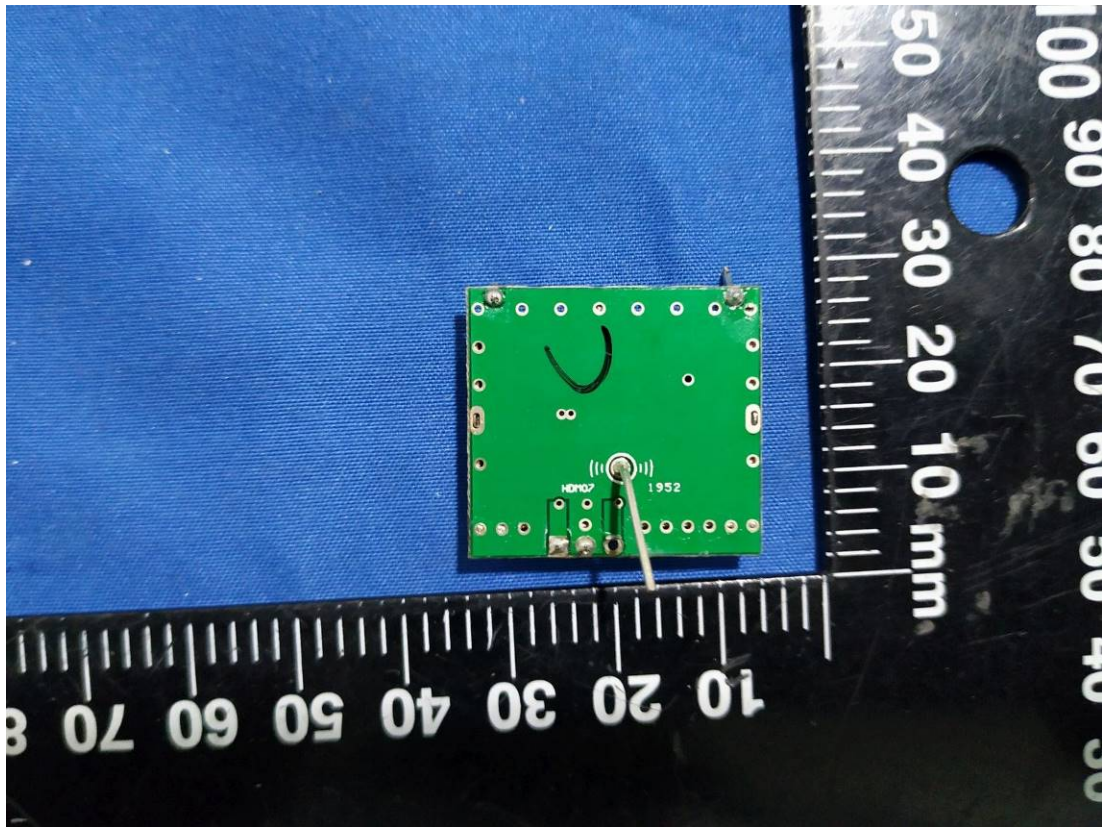


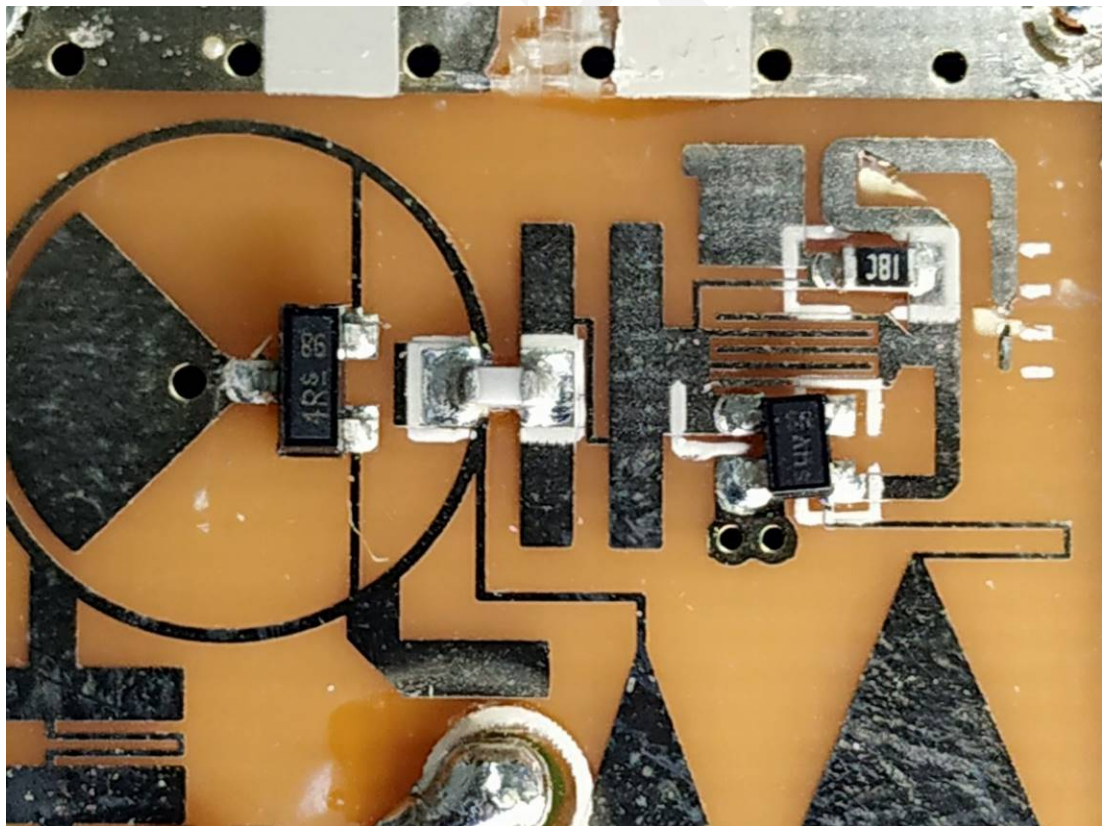
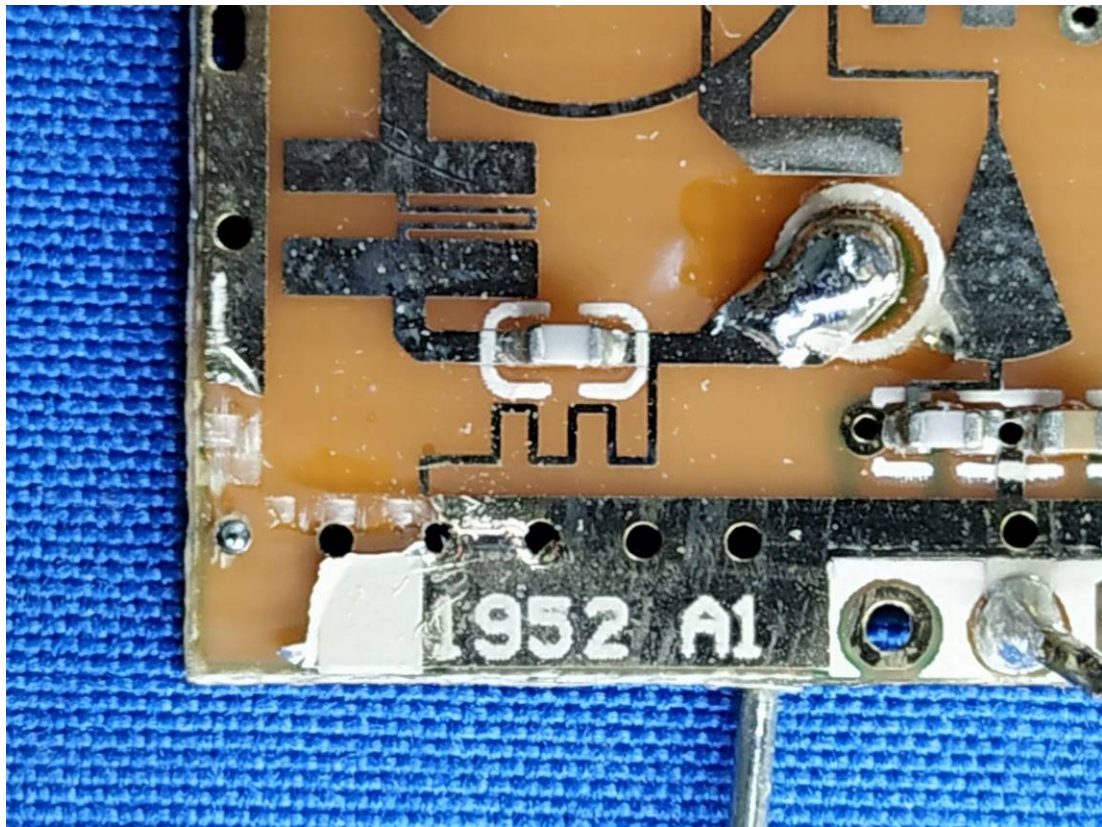






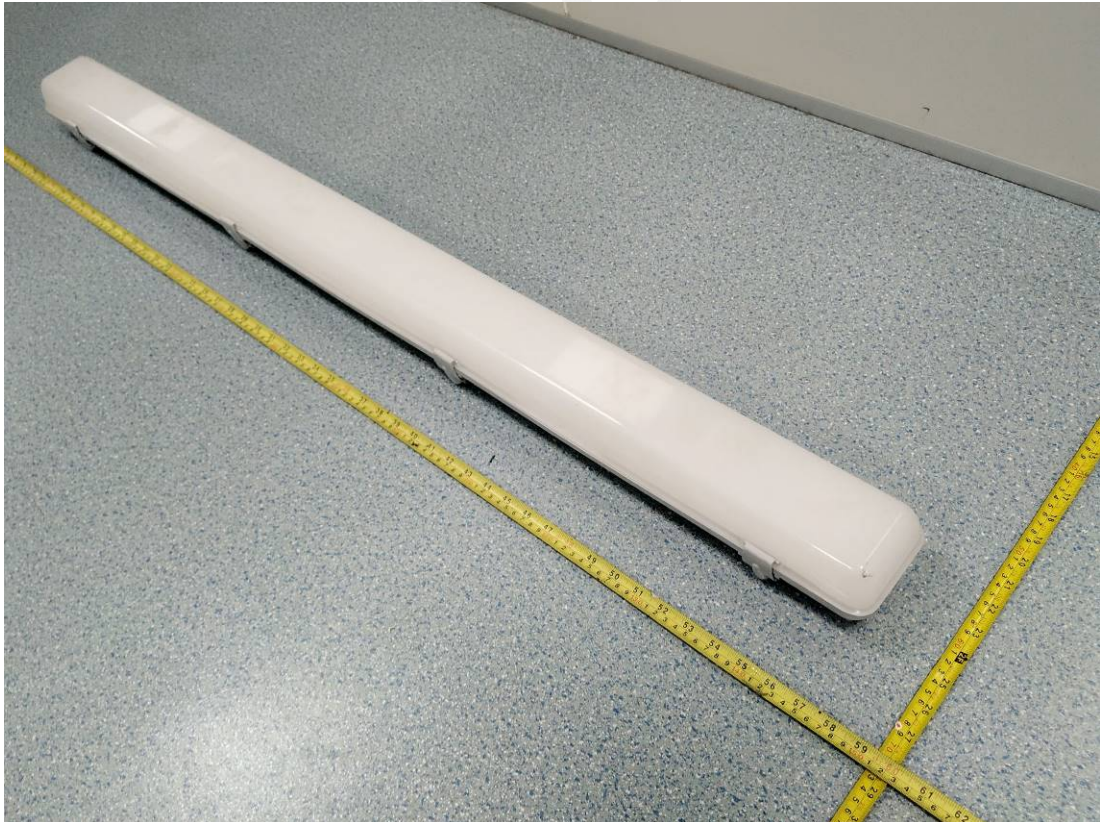


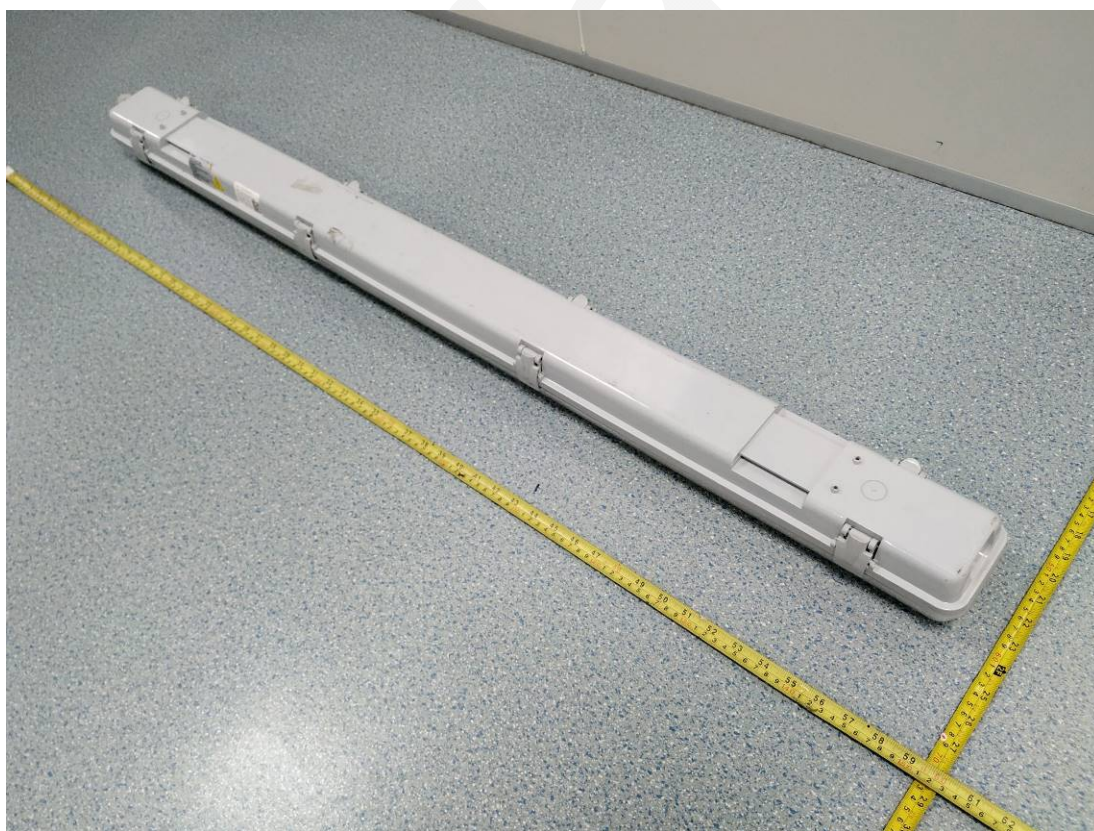


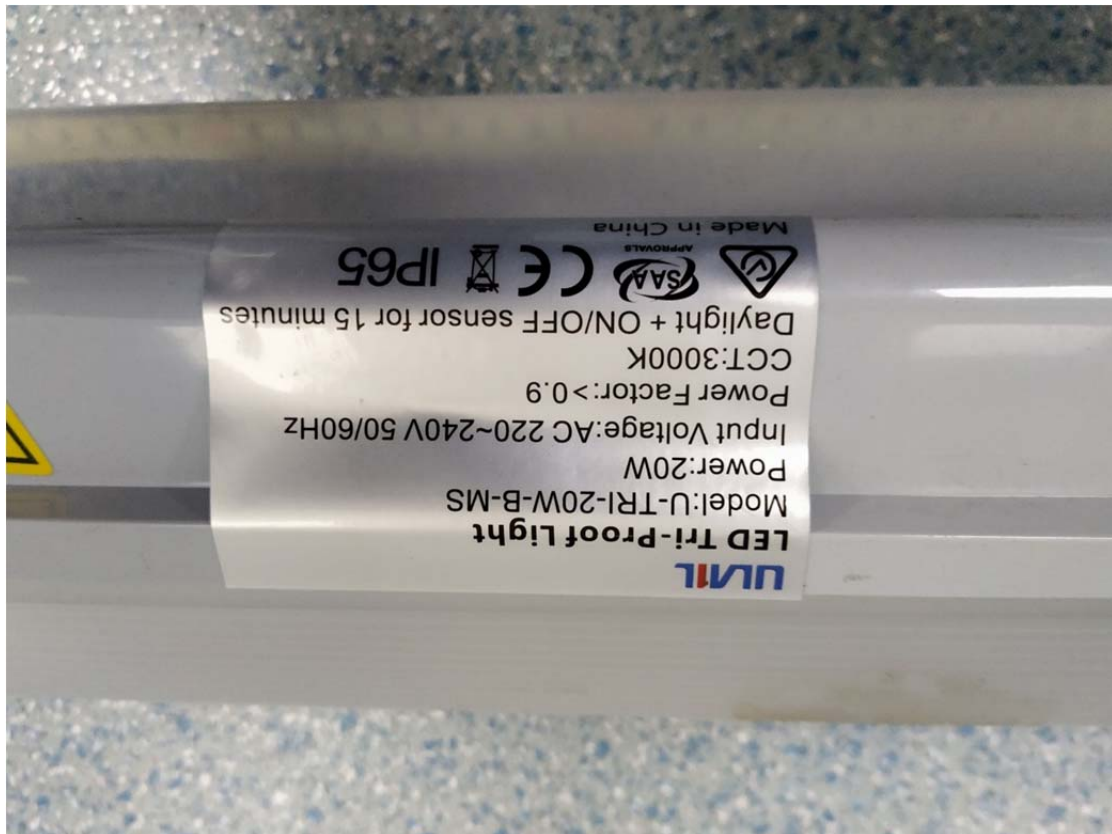


U-TRI-24W-B-MS

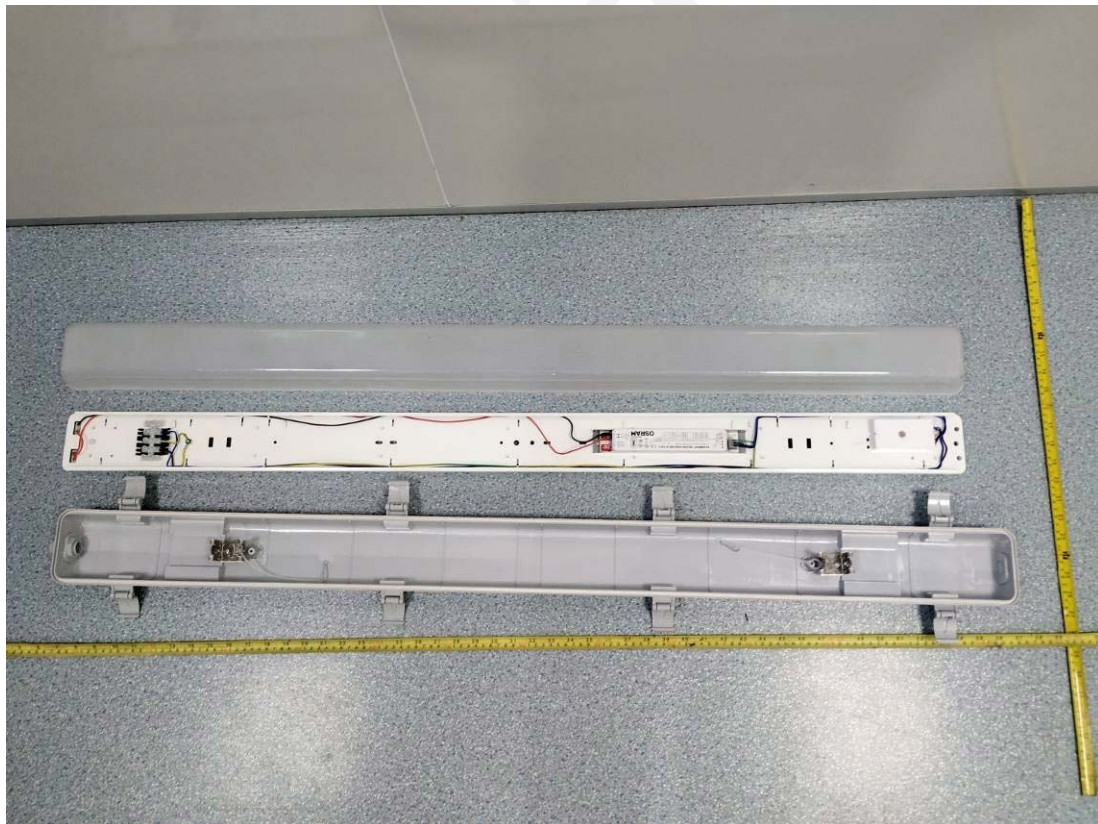
EUT

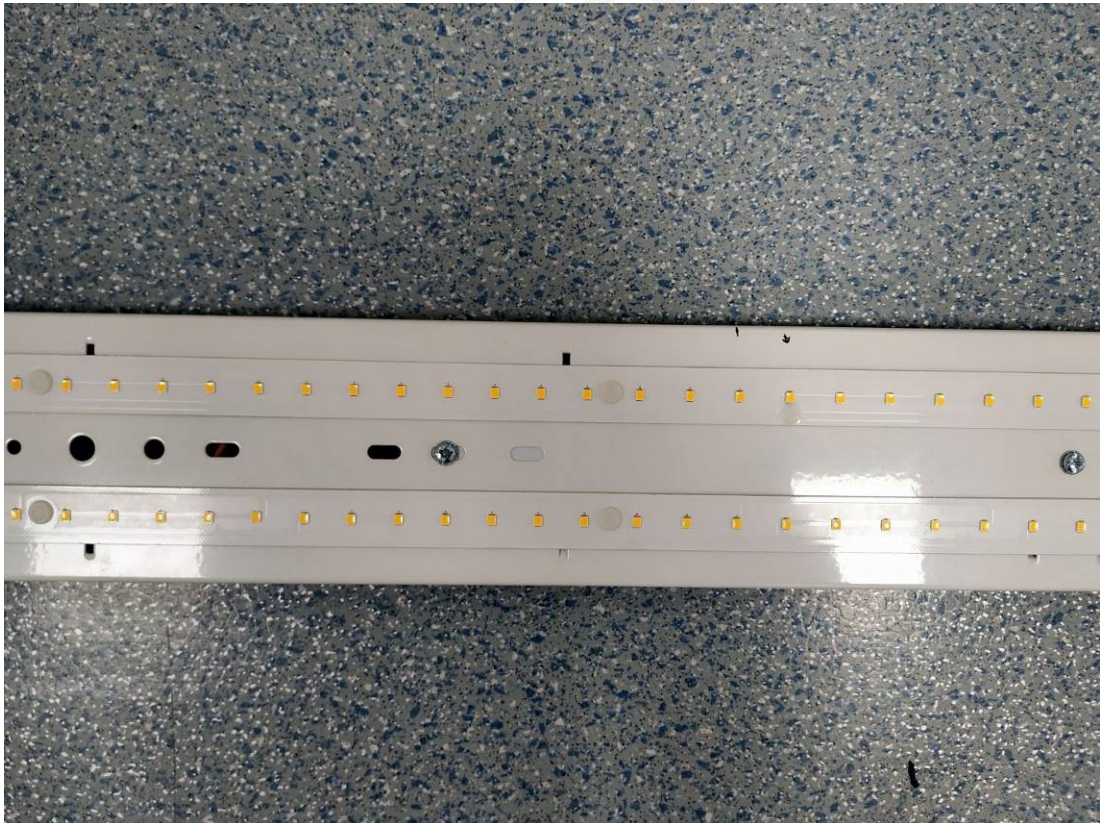
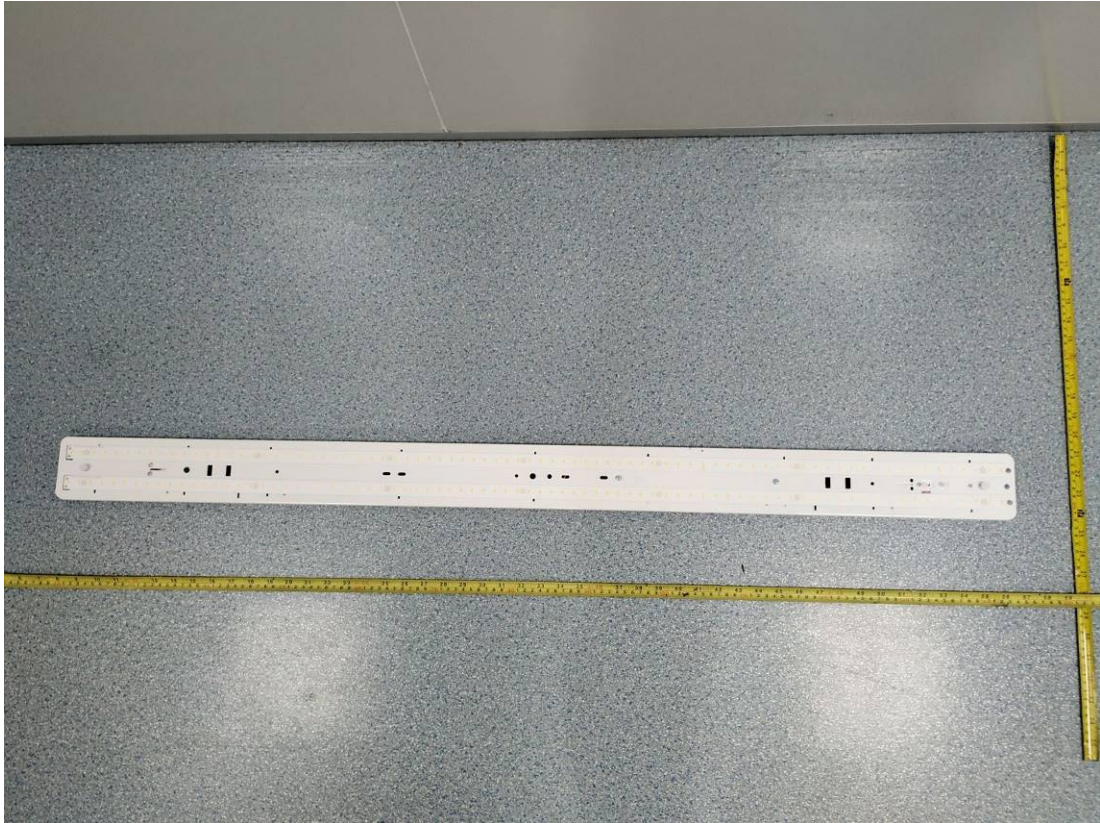




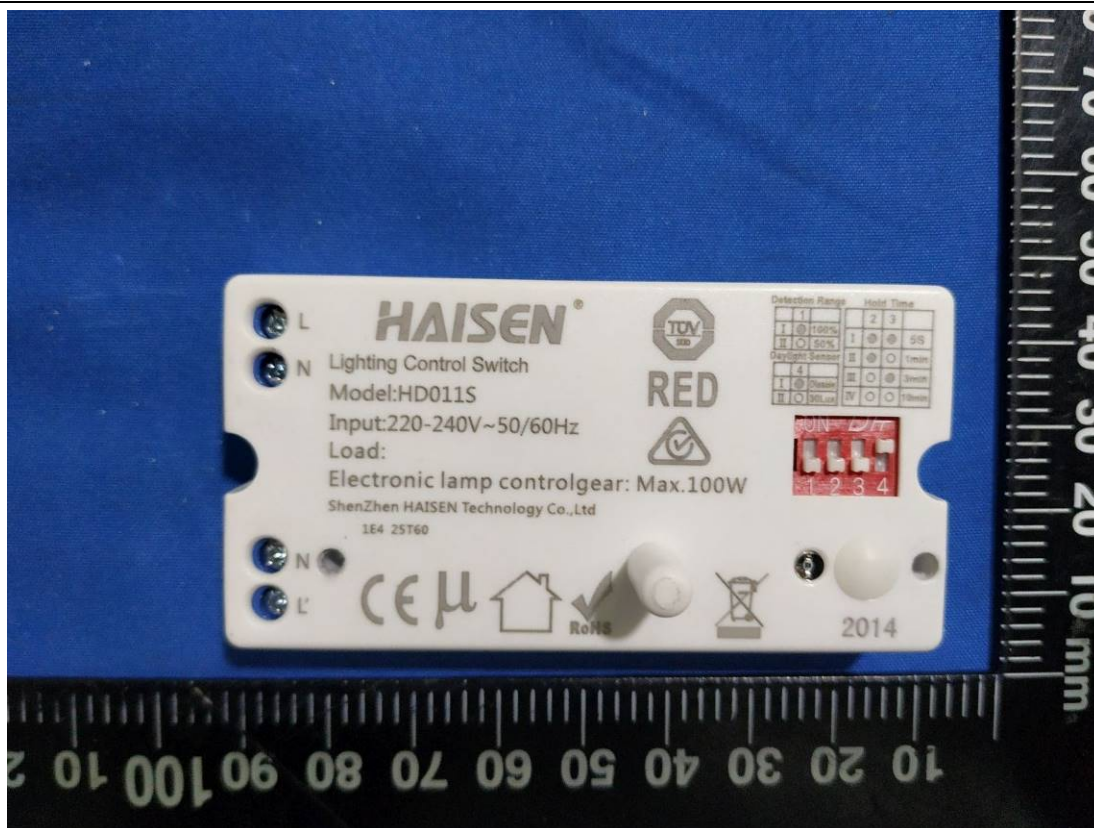


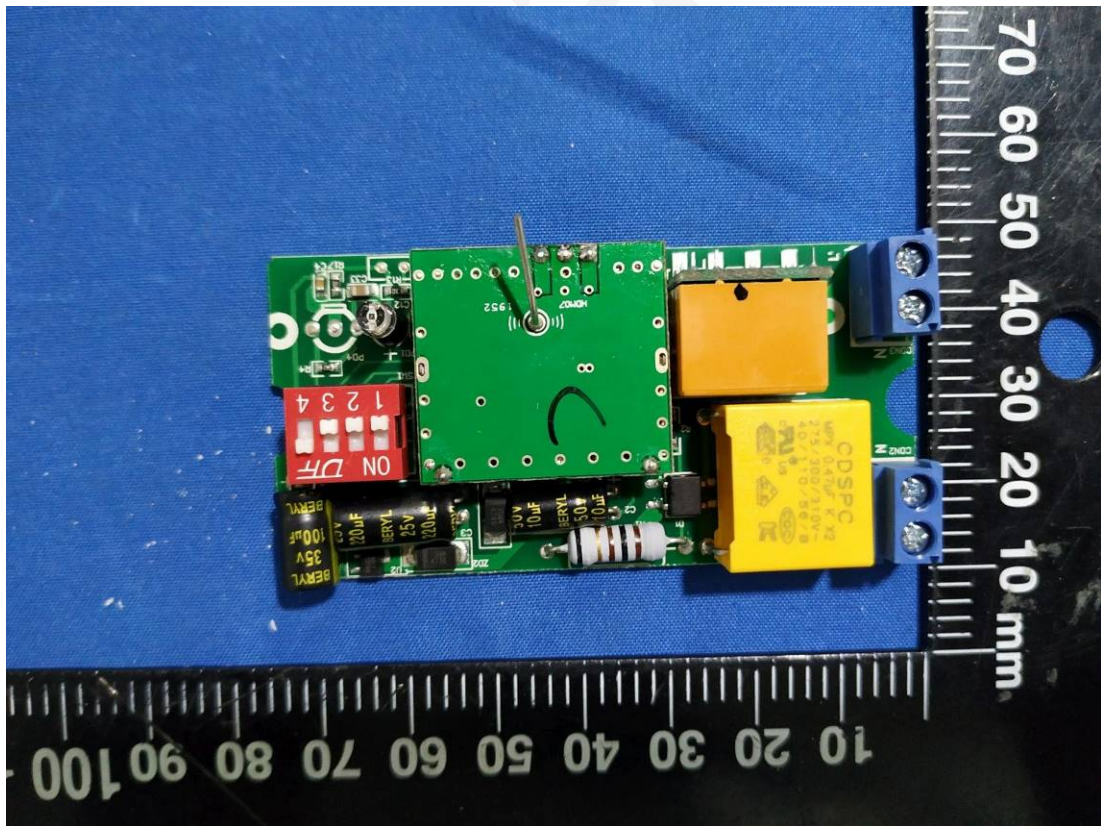
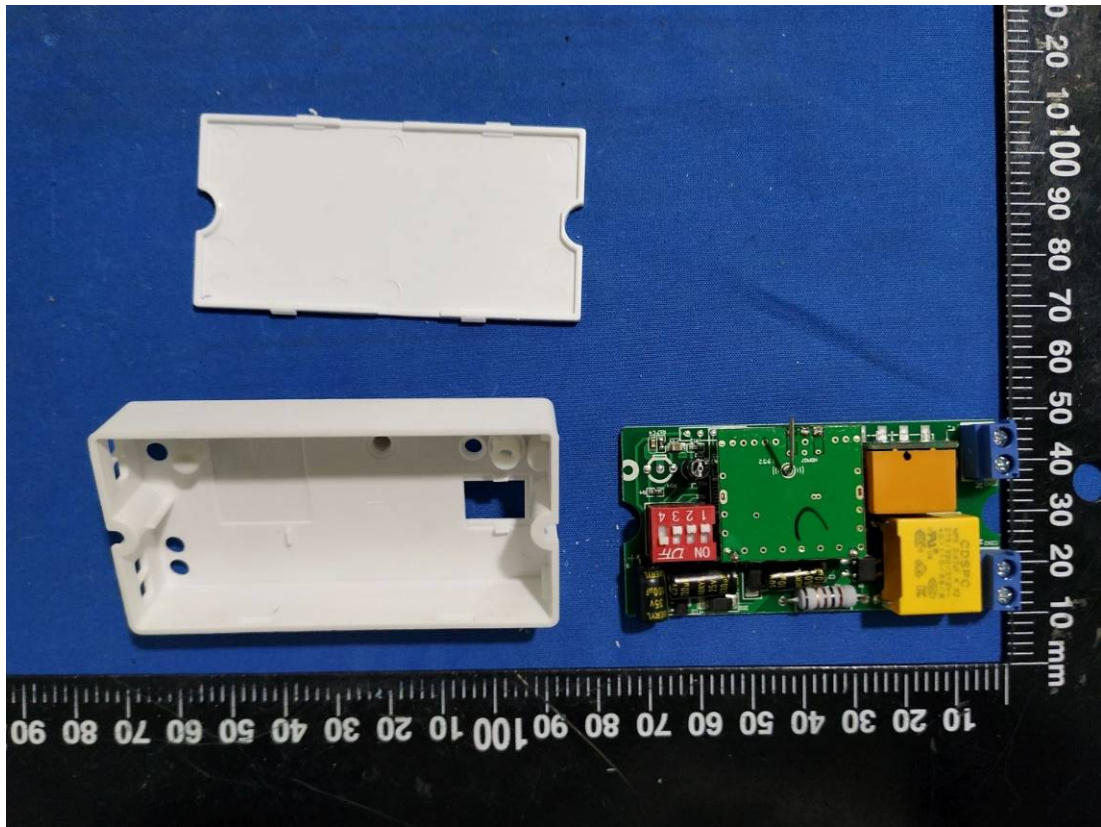
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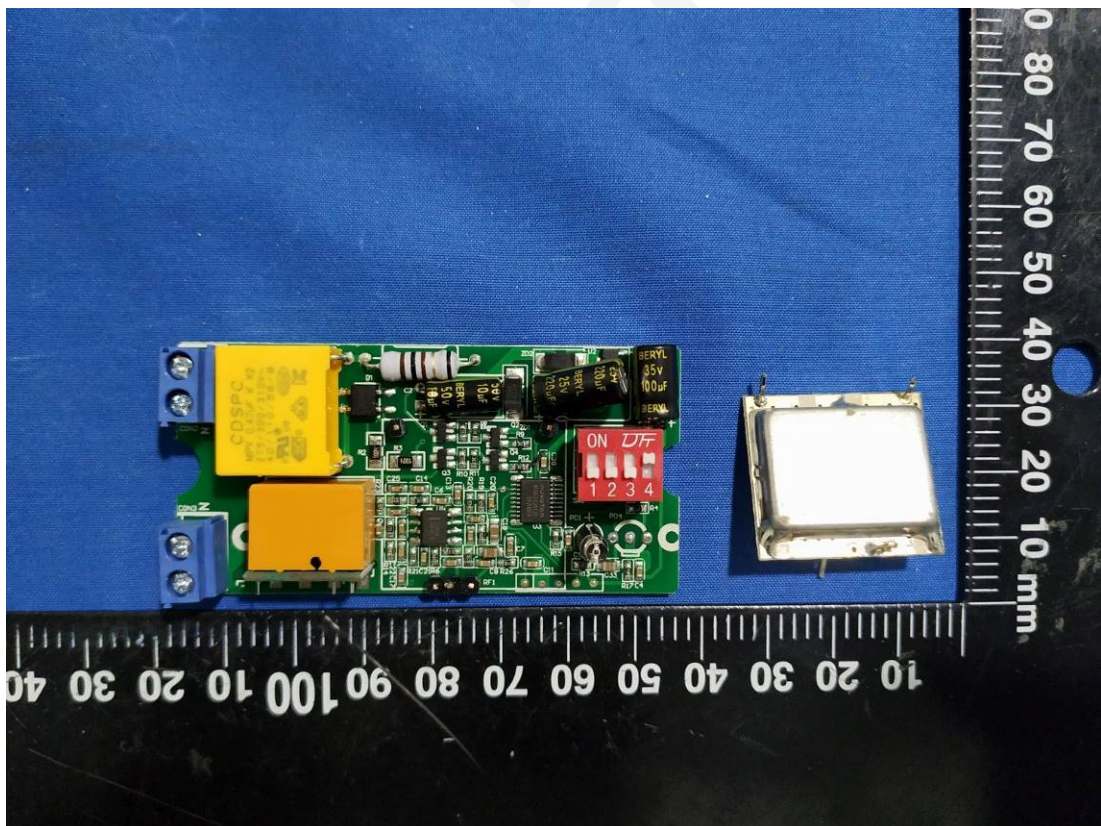
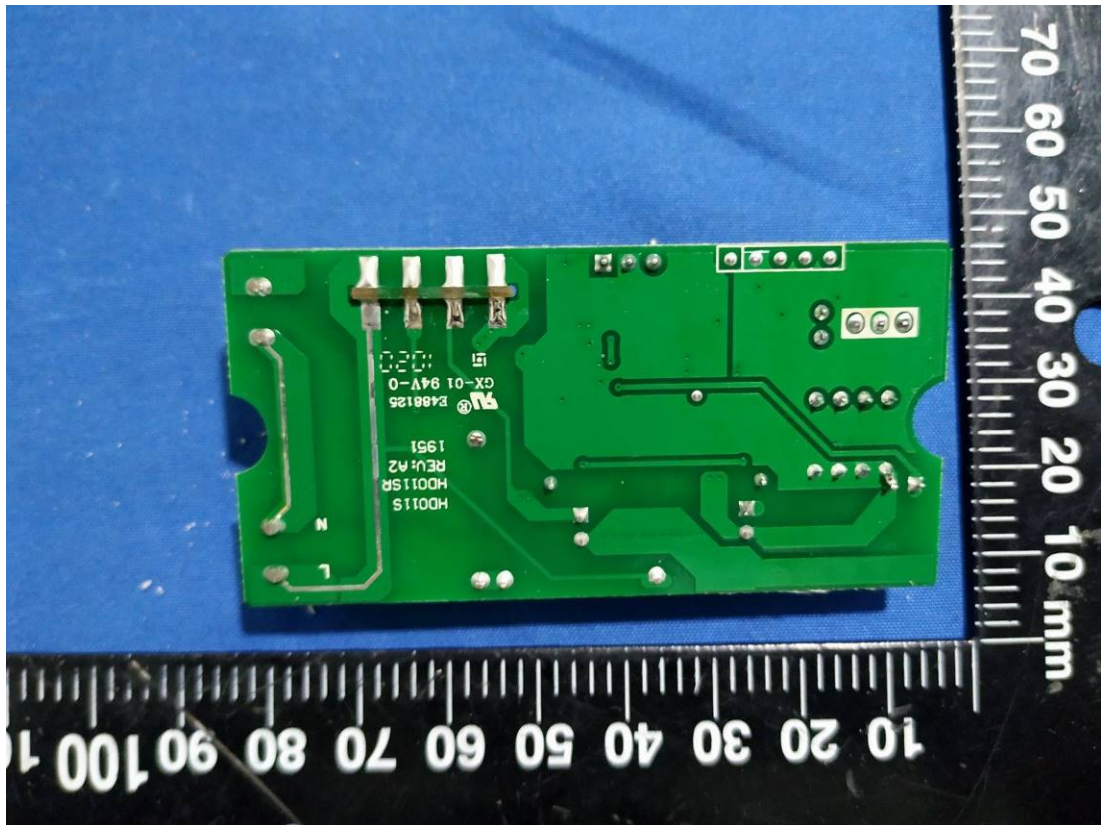


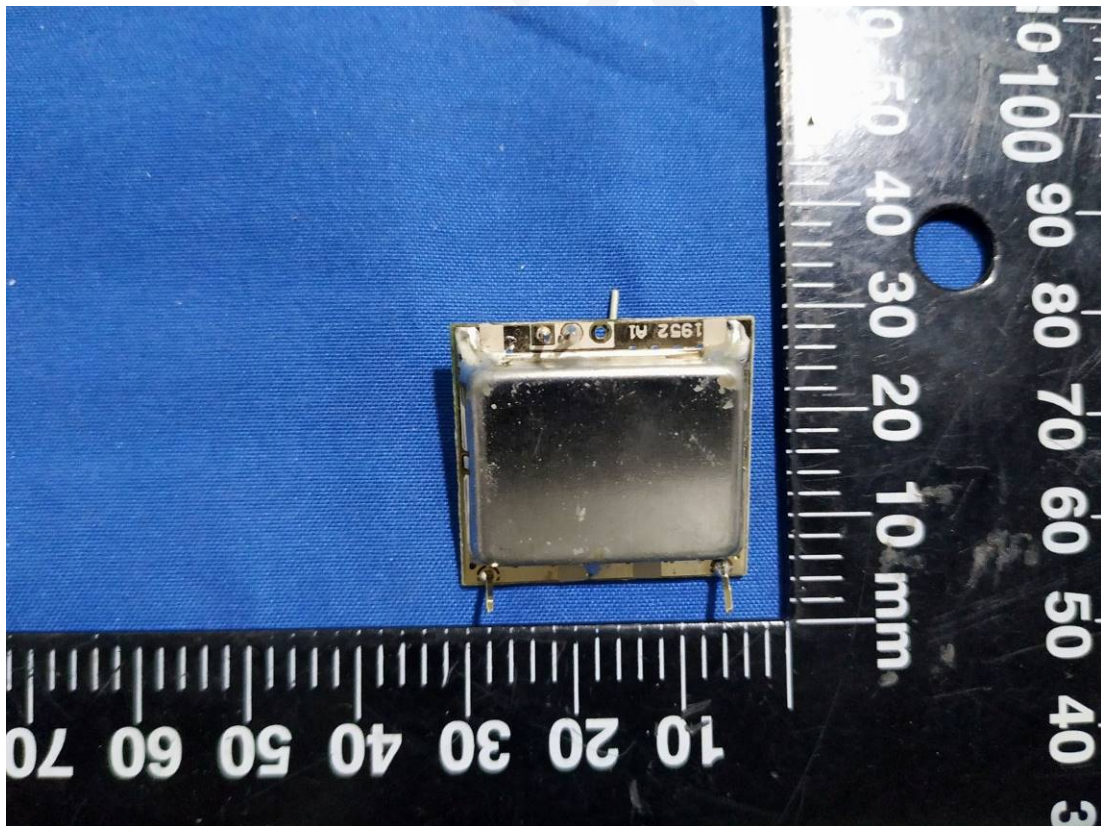
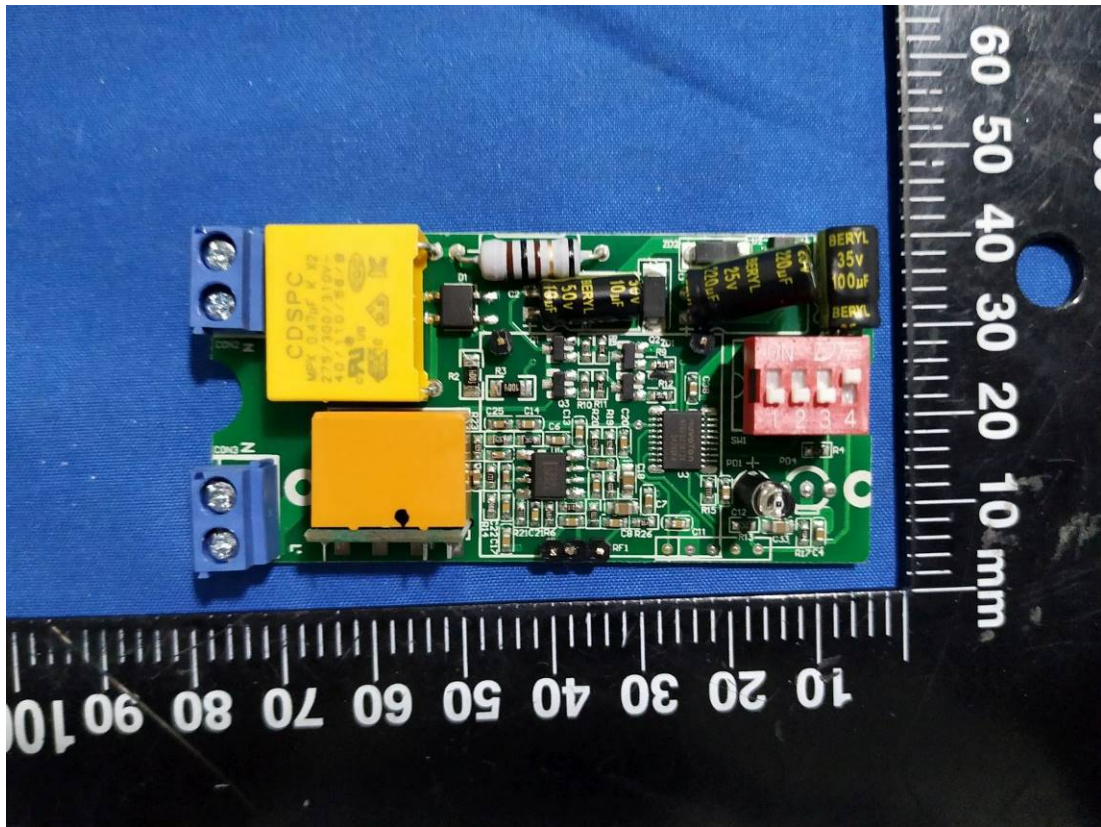


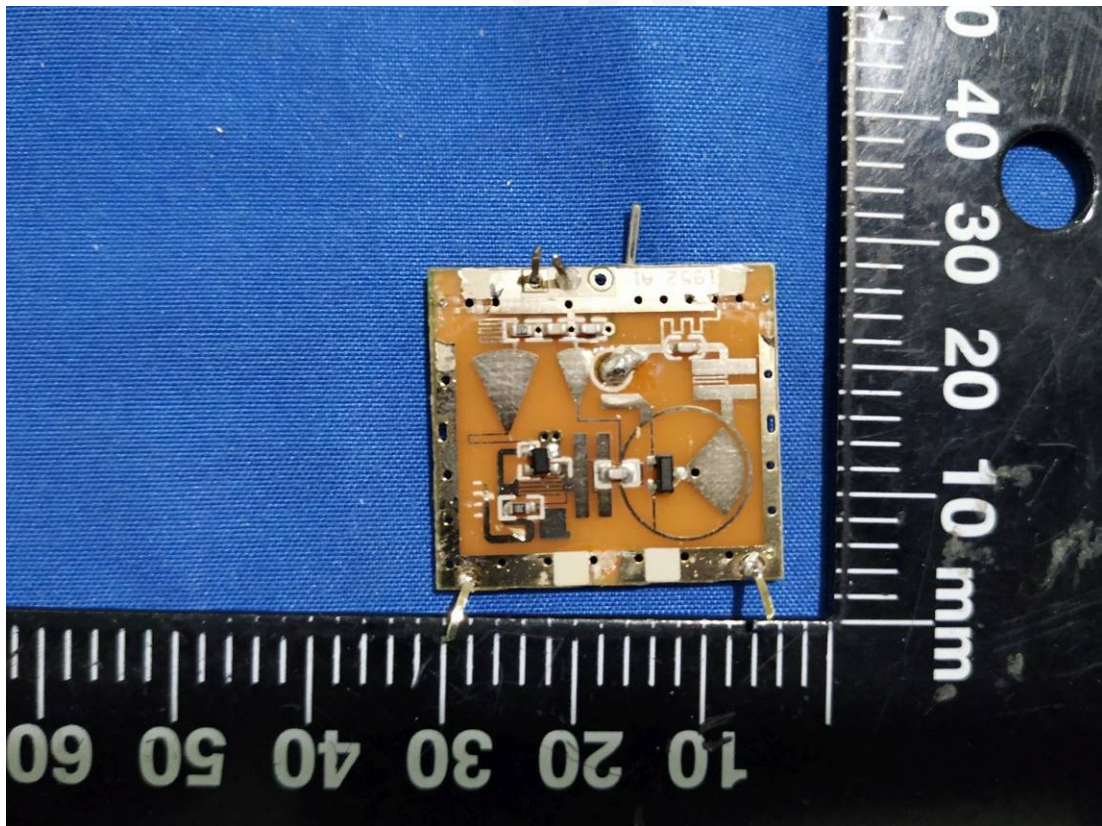
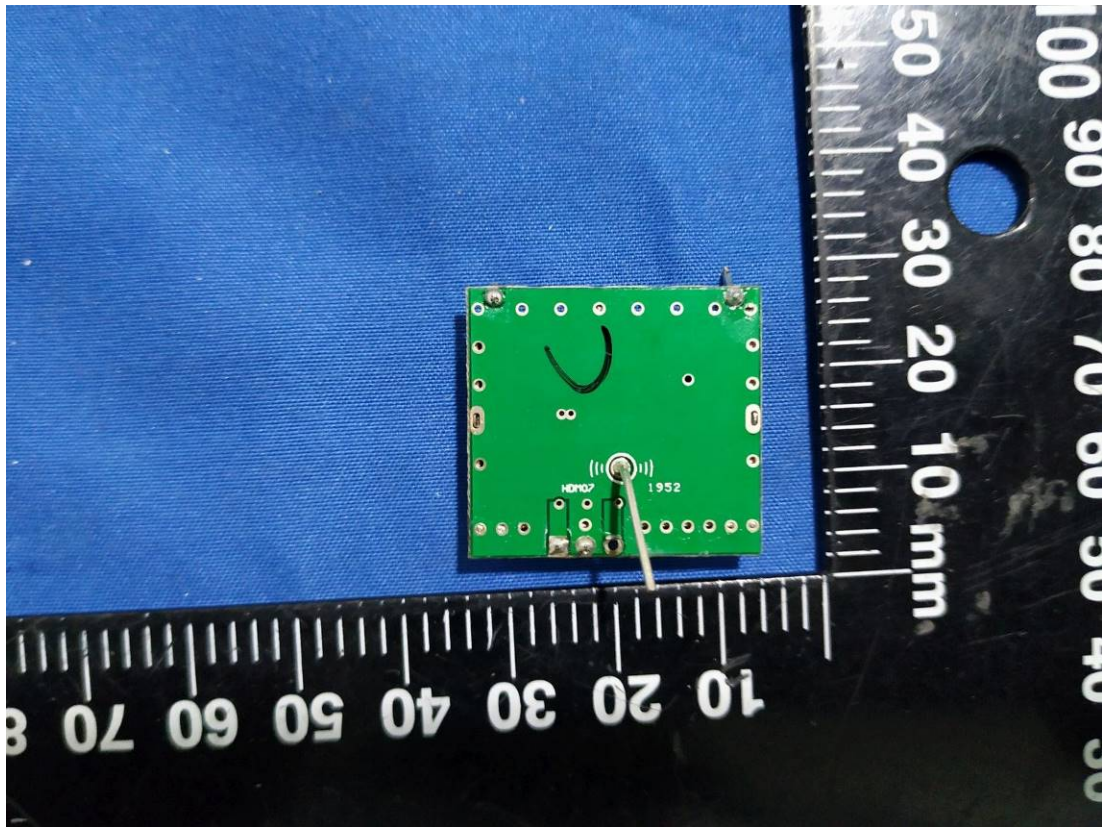


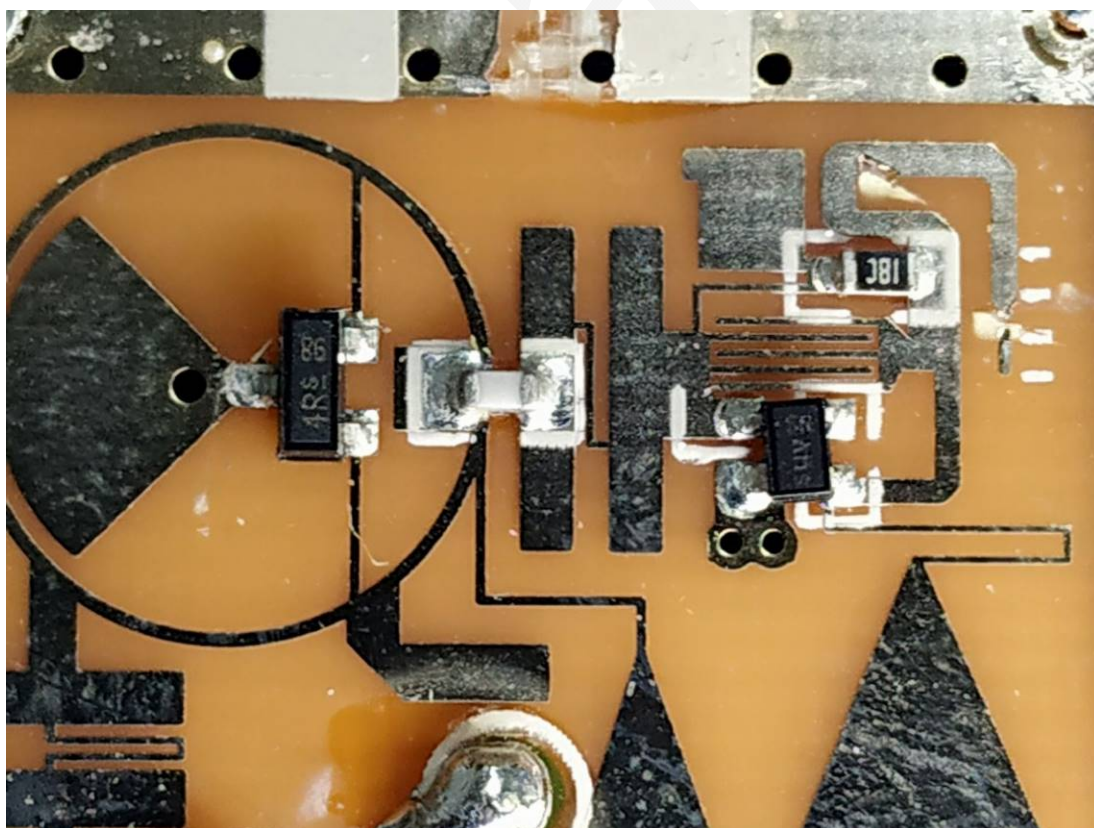
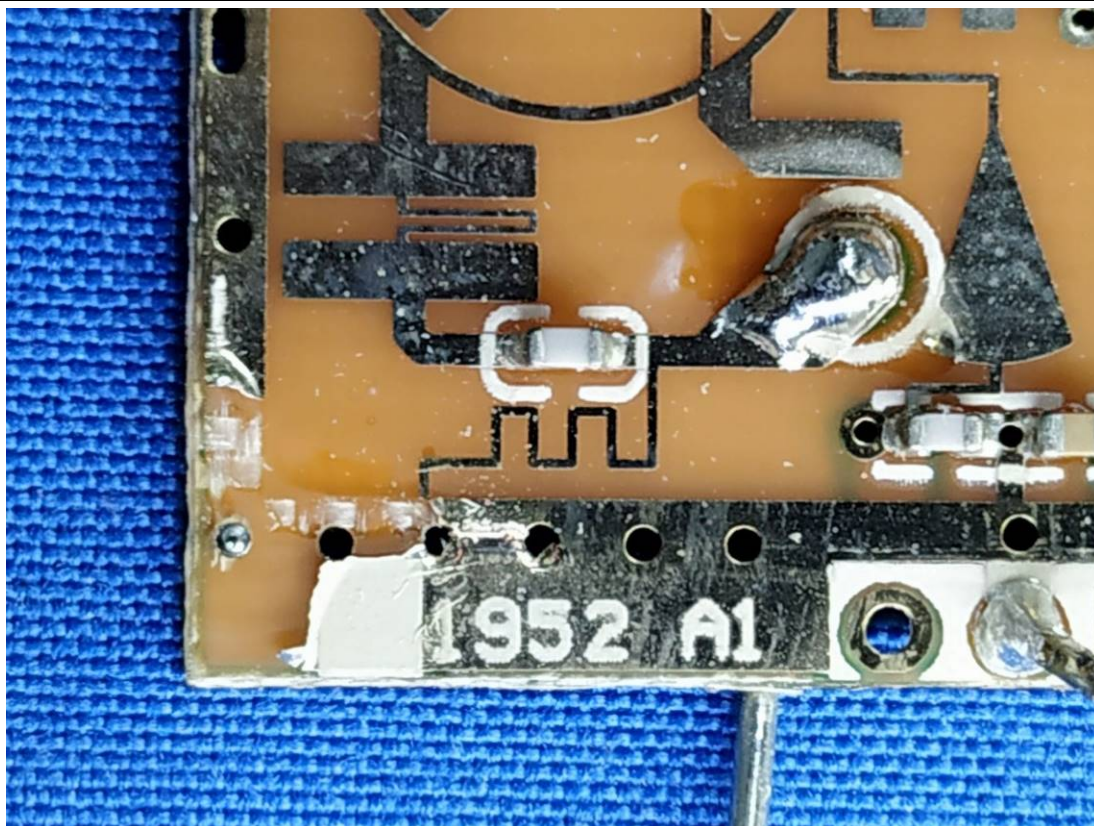












EXHIBITB – TEST SETUP PHOTOGRAPHS

CE

CE front View



CE side View



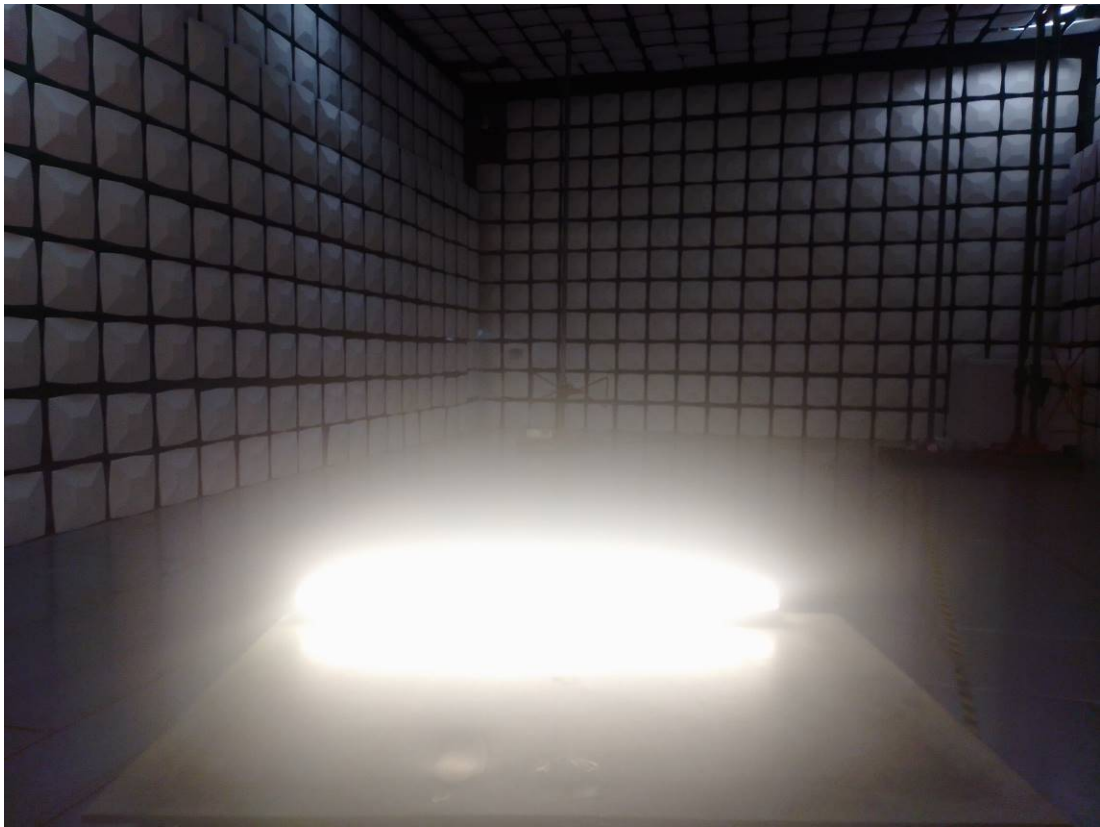
Indcuted current

RE(Magnetic) View



RE

RE Below 1G front View



RE Below 1G rear View



*******END OF REPORT*******