

FCC 47 CFR Part 15 Subpart B

TEST REPORT

For

Astrid FM 5CCT remote Chrome

MODEL NUMBER: CML15-813, FM-ASR-CR, FM-ASR-XXXXXX (The suffix "XXXXXX" can be A to Z and/or 0 to 9 and/or blank denotes commercial code.)

REPORT NUMBER: E04A23100223F00301

ISSUE DATE: October 20, 2023

FCC ID: 2AUHG-FM-ASR

Prepared for

ARTIKA FOR LIVING INC

1756 50th avenue, Lachine, Quebec, Canada

Prepared by

Guangdong Global Testing Technology Co., Ltd.

**Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park,
Dongguan city, Guangdong, People's Republic of China, 523808**

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
<u>V0</u>	<u>October 20, 2023</u>	<u>Initial Issue</u>	<u>Joson</u>

Summary of Test Results

Emission			
Standard	Test Item	Limit	Result
FCC 47 CFR Part 15 Subpart B	Conducted emissions	FCC Part 15.107	Pass
	Radiated emissions below 1GHz	FCC Part 15.109	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <FCC 47 CFR Part 15 Subpart B> when <Accuracy Method> decision rule is applied.

CONTENTS

1. ATTESTATION OF TEST RESULTS.....	5
2. TEST METHODOLOGY.....	6
3. FACILITIES AND ACCREDITATION.....	6
4. CALIBRATION AND UNCERTAINTY	7
4.1. <i>MEASURING INSTRUMENT CALIBRATION</i>	<i>7</i>
4.2. <i>MEASUREMENT UNCERTAINTY.....</i>	<i>7</i>
5. EQUIPMENT UNDER TEST	8
5.1. <i>DESCRIPTION OF EUT</i>	<i>8</i>
5.2. <i>TEST MODE.....</i>	<i>8</i>
5.3. <i>SUPPORT UNITS FOR SYSTEM TEST</i>	<i>8</i>
5.4. <i>SETUP DIAGRAM</i>	<i>8</i>
6. MEASURING EQUIPMENT AND SOFTWARE USED.....	9
7. EMISSION TEST	9
7.1. <i>Conducted emissions.....</i>	<i>9</i>
7.2. <i>Radiated emissions below 1GHz</i>	<i>16</i>
APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION	22
APPENDIX: PHOTOGRAPHS OF THE EUT	23

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: ARTIKA FOR LIVING INC
 Address: 1756 50th avenue, Lachine, Quebec, Canada

Manufacturer Information

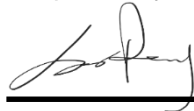
Company Name: Foshan Topday Optoelectronics Technology Co.,Ltd.
 Address: Huansheng Road,Guicheng Eastern industrial Zone BSanshan Nanhai DistrictFoshanChina

EUT Information

Product Description: Astrid FM 5CCT remote Chrome
 Model: CML15-813
 Series Model: FM-ASR-CR, FM-ASR-XXXXXX (The suffix "XXXXXX" can be A to Z and/or 0 to 9 and/or blank denotes commercial code.)
 Brand: Artika
 Sample Received Date: October 12, 2023
 Sample Status: Normal
 Sample ID: A23100223 001
 Date of Tested: October 13, 2023

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B	Pass

Prepared By:



Joson Peng
 Project Engineer

Checked By:



Alan He
 Laboratory Leader

Approved By:



Shawn Wen
 Laboratory Manager



2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR Part 15 Subpart B

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules</p> <p>ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.</p>
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions	0.009 MHz - 30 MHz	2	3.37
Radiated emissions below 1GHz	30 MHz -1 GHz	2	3.79
Note1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.			
Note 2: According to the standard CISPR 16-4-2, the MU for the Conducted emissions from the AC mains power ports using AMN should not exceed 3.8 in range of 9kHz to 150kHz and 3.4 in range of 150kHz to 30MHz. We have considered the test results containing the value of U _{lab} (in dB) for the measurement instrumentation actually used for the measurements.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Astrid FM 5CCT remote Chrome	
Model	CML15-813	
Series Model	FM-ASR-CR, FM-ASR-XXXXXX (The suffix "XXXXXX" can be A to Z and/or 0 to 9 and/or blank denotes commercial code.)	
EUT Classification	Class B	
Ratings	120Vac 60Hz	
Test Power Supply	AC	120Vac 60Hz

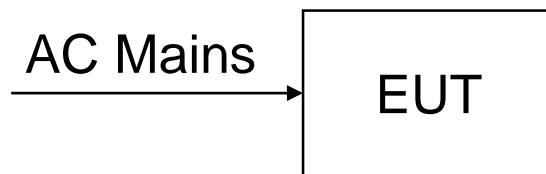
5.2. TEST MODE

Test Mode	Description
M01	MAX LIGHTING
M02	MIN LIGHTING

5.3. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit

5.4. SETUP DIAGRAM



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielding Room 1	CHENG YU	8*5*4	N/A	2022/10/29	2025/10/28
LISN	R&S	ENV216	102843	2022/10/8	2024/9/17
EMI Test Receiver	R&S	ESR3	102647	2022/12/3	2023/12/2
LISN	Schwarzbeck	NNLK 8129 RC	5046	2023/3/30	2024/3/29
8-Wire ISN CAT6	Schwarzbeck	NTFM 8158	#237	2022/10/29	2023/10/28
CURRENT PROBE	R&S	EZ-17	101602	2022/10/29	2023/10/28
EZ-EMC	Farad	Ver/EMC-con-3A1 1+	N/A	N/A	N/A

Test Equipment of Radiated emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Chamber	ETS	9*6*6	Q2146	2022/8/30	2025/8/29
Receiver	R&S	ESCI3	101409	2022/10/8	2024/9/17
Loop Antenna	ETS	6502	243668	2022/3/30	2025/3/30
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	2022/10/29	2024/9/17
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/9
Biconilog Antenna	ETS	3142E	00243646	2022/3/23	2025/3/22
EZ-EMC	Farad	Ver/FA-03A2 RE+	N/A	N/A	N/A

7. EMISSION TEST

7.1. CONDUCTED EMISSIONS

LIMITS

CFR 47 FCC Part15 Subpart B				
FREQUENCY (MHz)	Class A (dB μ V)		Class B (dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46*
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

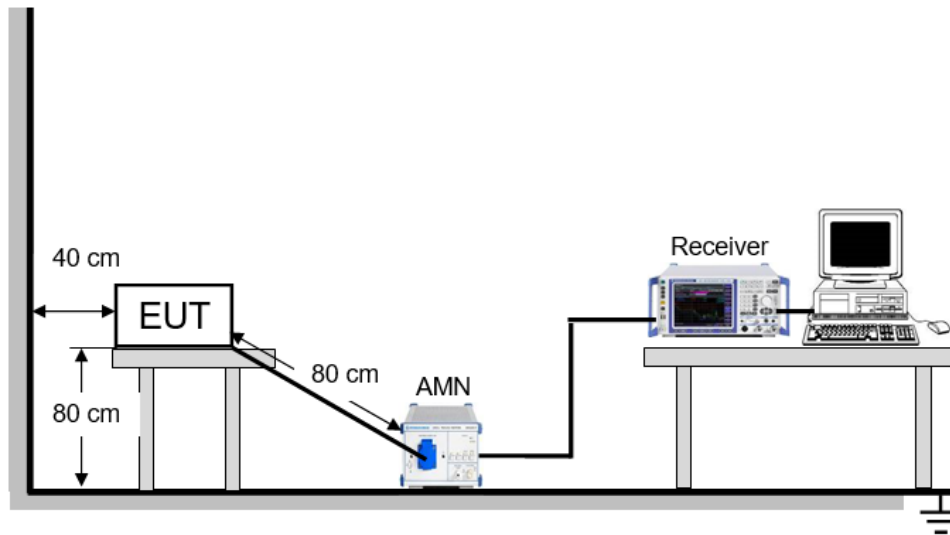
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

TEST PROCEDURE

1. The testing follows the guidelines in ANSI C63.4-2014.
2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
5. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

TEST SETUP



TEST ENVIRONMENT

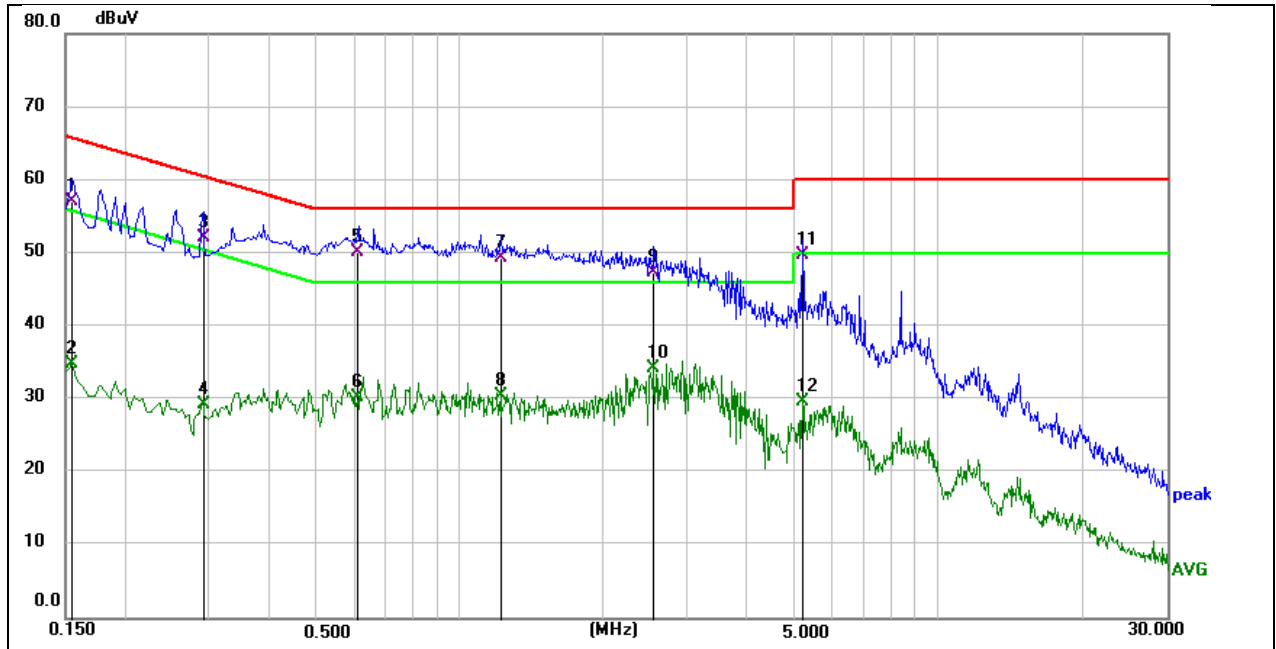
Temperature	25°C	Relative Humidity	53%
Atmosphere Pressure	98.3kPa		

TEST MODE

Pre-test Mode:	M01 ~ M02
Final Test Mode:	M01, M02

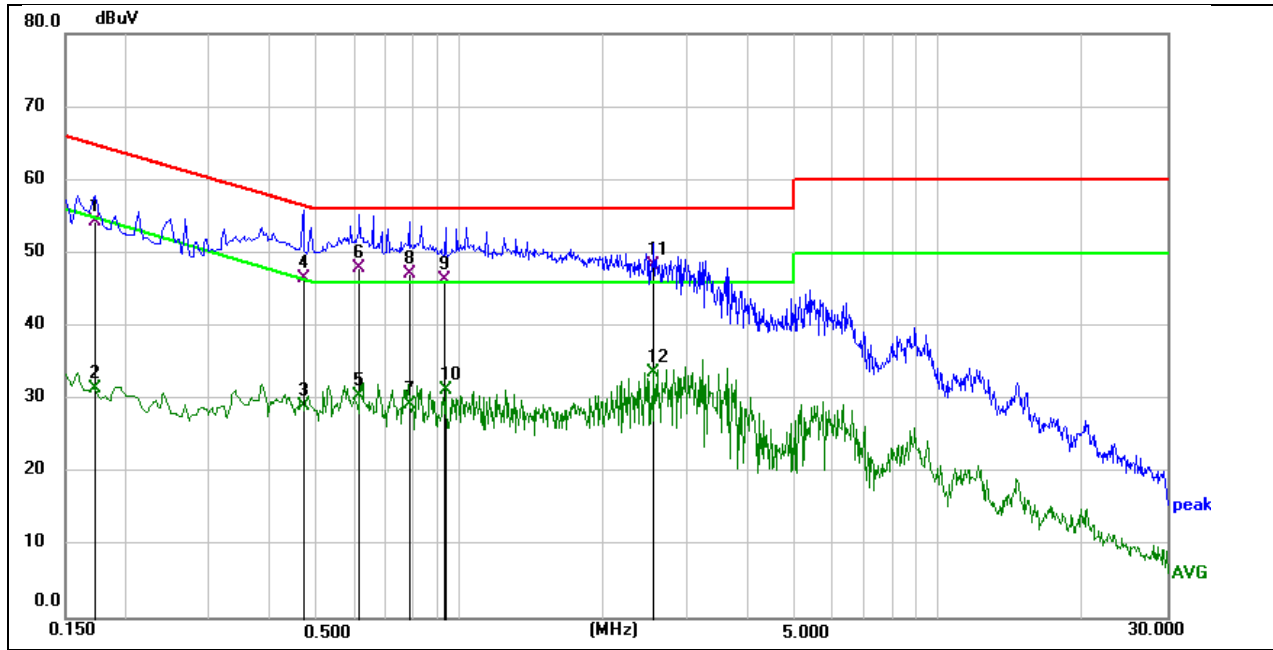
Note: All test modes had been tested, but only the worst data recorded in the report.

TEST RESULTS



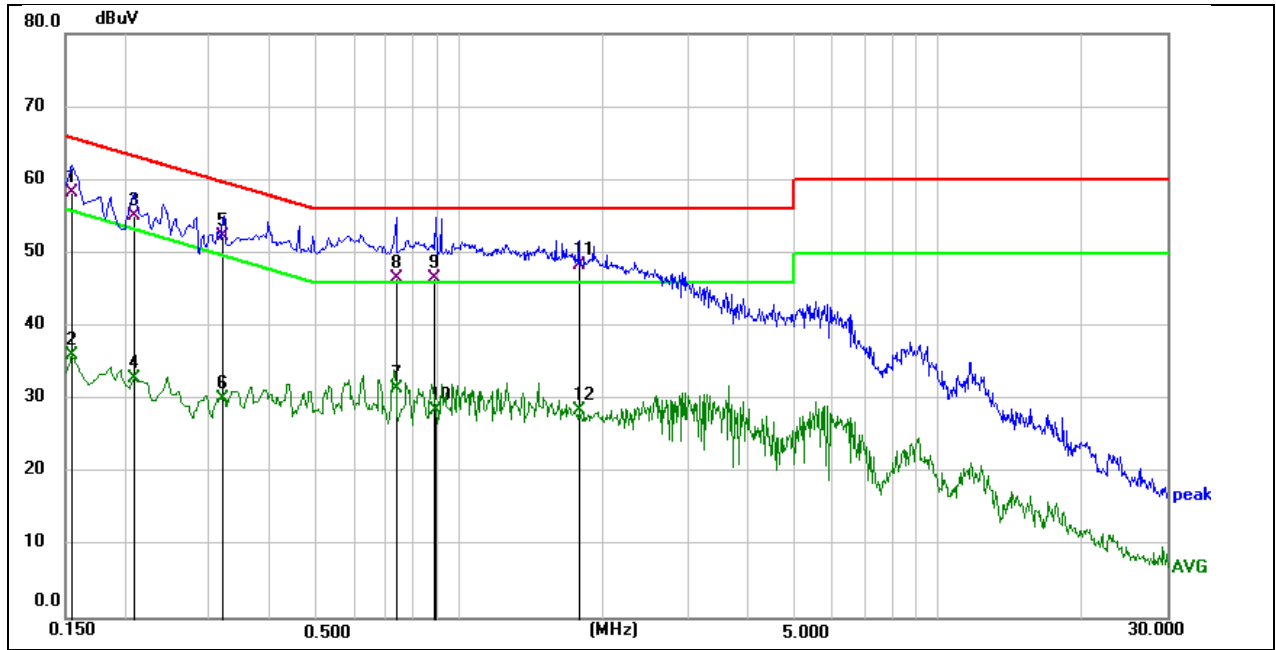
Site:	Shielding Room B-2	Phase: L1	Temperature(C): 25(C)
Limit:	FCC Part 15 B Conduction(QP)		Humidity(%): 53%RH
EUT:	Astrid FM 5CCT remote Chrome	Test Time:	2023/10/13
M/N.:	CML15-813	Power Rating:	AC120V/60Hz
Mode:	M01	Test Engineer:	Fink
Note:	Max Lighting		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1545	47.36	9.76	57.12	65.75	-8.63	QP
2	0.1545	25.13	9.76	34.89	55.75	-20.86	AVG
3	0.2895	42.31	9.85	52.16	60.54	-8.38	QP
4	0.2895	19.44	9.85	29.29	50.54	-21.25	AVG
5	0.6134	40.38	9.74	50.12	56.00	-5.88	QP
6	0.6134	20.47	9.74	30.21	46.00	-15.79	AVG
7	1.2164	39.58	9.77	49.35	56.00	-6.65	QP
8	1.2164	20.69	9.77	30.46	46.00	-15.54	AVG
9	2.5485	37.38	9.87	47.25	56.00	-8.75	QP
10	2.5485	24.44	9.87	34.31	46.00	-11.69	AVG
11	5.2035	39.83	9.80	49.63	60.00	-10.37	QP
12	5.2035	19.96	9.80	29.76	50.00	-20.24	AVG



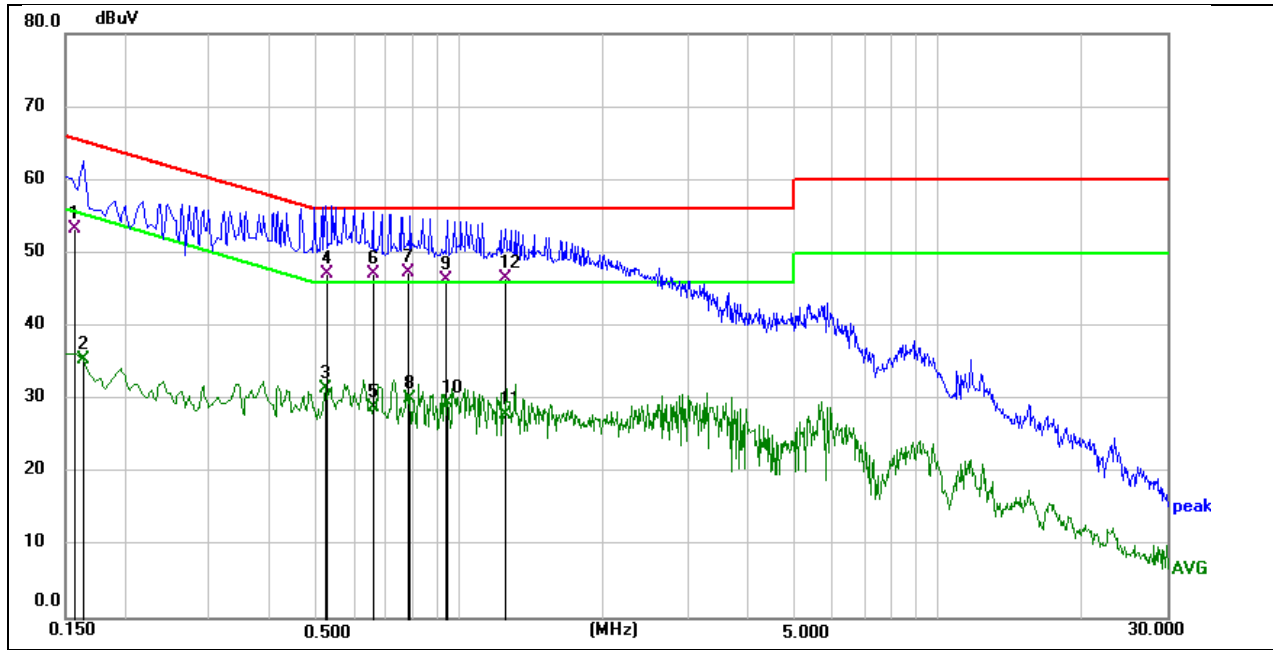
Site:	Shielding Room B-2	Phase:	N	Temperature(C):	25(C)
Limit:	FCC Part 15 B Conduction(QP)			Humidity(%):	53%RH
EUT:	Astrid FM 5CCT remote Chrome	Test Time:			2023/10/13
M/N.:	CML15-813	Power Rating:			AC120V/60Hz
Mode:	M01	Test Engineer:			Fink
Note:	Max Lighting				

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1725	44.62	9.74	54.36	64.84	-10.48	QP
2	0.1725	21.75	9.74	31.49	54.84	-23.35	AVG
3	0.4695	19.27	9.85	29.12	46.52	-17.40	AVG
4	0.4705	36.65	9.85	46.50	56.51	-10.01	QP
5	0.6180	20.51	9.94	30.45	46.00	-15.55	AVG
6	0.6193	38.01	9.93	47.94	56.00	-8.06	QP
7	0.7845	19.51	9.83	29.34	46.00	-16.66	AVG
8	0.7871	37.28	9.83	47.11	56.00	-8.89	QP
9	0.9324	36.49	9.83	46.32	56.00	-9.68	QP
10	0.9375	21.48	9.83	31.31	46.00	-14.69	AVG
11	2.5440	38.30	9.96	48.26	56.00	-7.74	QP
12	2.5440	23.76	9.96	33.72	46.00	-12.28	AVG



Site:	Shielding Room B-2	Phase: L1	Temperature(C): 25(C)
Limit:	FCC Part 15 B Conduction(QP)		Humidity(%): 53%RH
EUT:	Astrid FM 5CCT remote Chrome	Test Time:	2023/10/13
M/N.:	CML15-813	Power Rating:	AC120V/60Hz
Mode:	M02	Test Engineer:	Fink
Note:	Min Lighting		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1545	48.50	9.76	58.26	65.75	-7.49	QP
2	0.1545	26.34	9.76	36.10	55.75	-19.65	AVG
3	0.2085	45.32	9.80	55.12	63.26	-8.14	QP
4	0.2085	23.14	9.80	32.94	53.26	-20.32	AVG
5	0.3209	42.46	9.90	52.36	59.68	-7.32	QP
6	0.3209	20.26	9.90	30.16	49.68	-19.52	AVG
7	0.7350	21.75	9.81	31.56	46.00	-14.44	AVG
8	0.7403	36.68	9.82	46.50	56.00	-9.50	QP
9	0.8883	36.64	9.93	46.57	56.00	-9.43	QP
10	0.8925	18.60	9.93	28.53	46.00	-17.47	AVG
11	1.7745	38.44	9.82	48.26	56.00	-7.74	QP
12	1.7745	18.61	9.82	28.43	46.00	-17.57	AVG



Site:	Shielding Room B-2	Phase:	N	Temperature(C):	25(C)
Limit:	FCC Part 15 B Conduction(QP)	Humidity(%):	53%RH	Test Time:	2023/10/13
EUT:	Astrid FM 5CCT remote Chrome	Power Rating:	AC120V/60Hz	Test Engineer:	Fink
M/N.:	CML15-813				
Mode:	M02				
Note:	Min Lighting				

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1573	43.55	9.68	53.23	65.61	-12.38	QP
2	0.1635	25.81	9.71	35.52	55.28	-19.76	AVG
3	0.5235	21.54	9.90	31.44	46.00	-14.56	AVG
4	0.5305	37.23	9.91	47.14	56.00	-8.86	QP
5	0.6585	19.00	9.91	28.91	46.00	-17.09	AVG
6	0.6599	37.27	9.91	47.18	56.00	-8.82	QP
7	0.7817	37.53	9.83	47.36	56.00	-8.64	QP
8	0.7890	20.17	9.83	30.00	46.00	-16.00	AVG
9	0.9409	36.59	9.83	46.42	56.00	-9.58	QP
10	0.9465	19.60	9.84	29.44	46.00	-16.56	AVG
11	1.2480	18.05	9.77	27.82	46.00	-18.18	AVG
12	1.2485	36.82	9.77	46.59	56.00	-9.41	QP

Remark: Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)

Margin = Result - Limit

7.2. RADIATED EMISSIONS BELOW 1GHZ

LIMITS

Below 1 GHz

CFR 47 FCC Part 15 Subpart B		
Frequency (MHz)	Class A	Class B
	Field strength (dBuV/m) (at 3 m)	Field strength (dBuV/m) (at 3 m)
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

Test Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m),
3m Emission level = 10 m Emission level + 20log(10 m/3 m);

TEST PROCEDURE

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

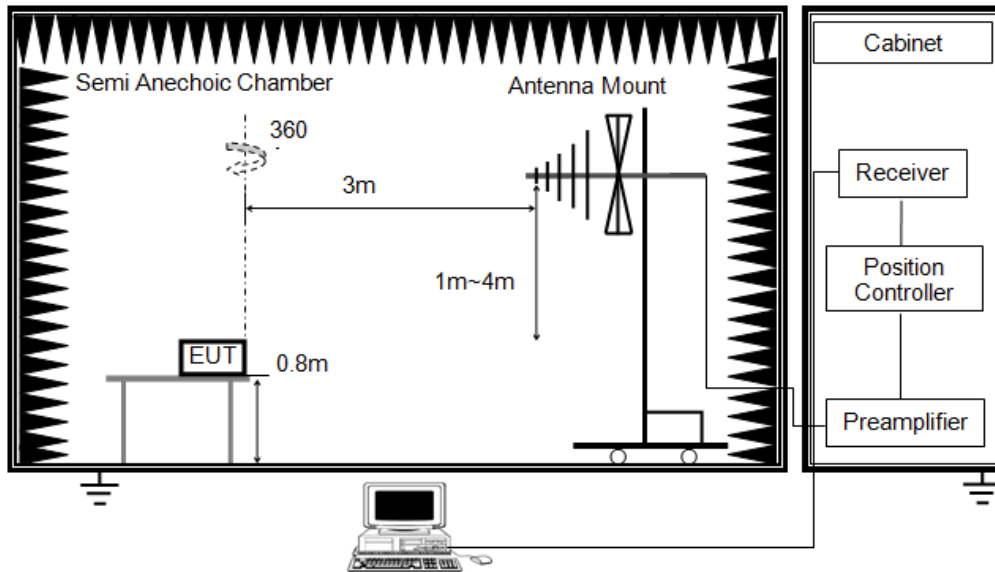
RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak and QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.4-2014.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp was used

for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
8. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

TEST SETUP



TEST ENVIRONMENT

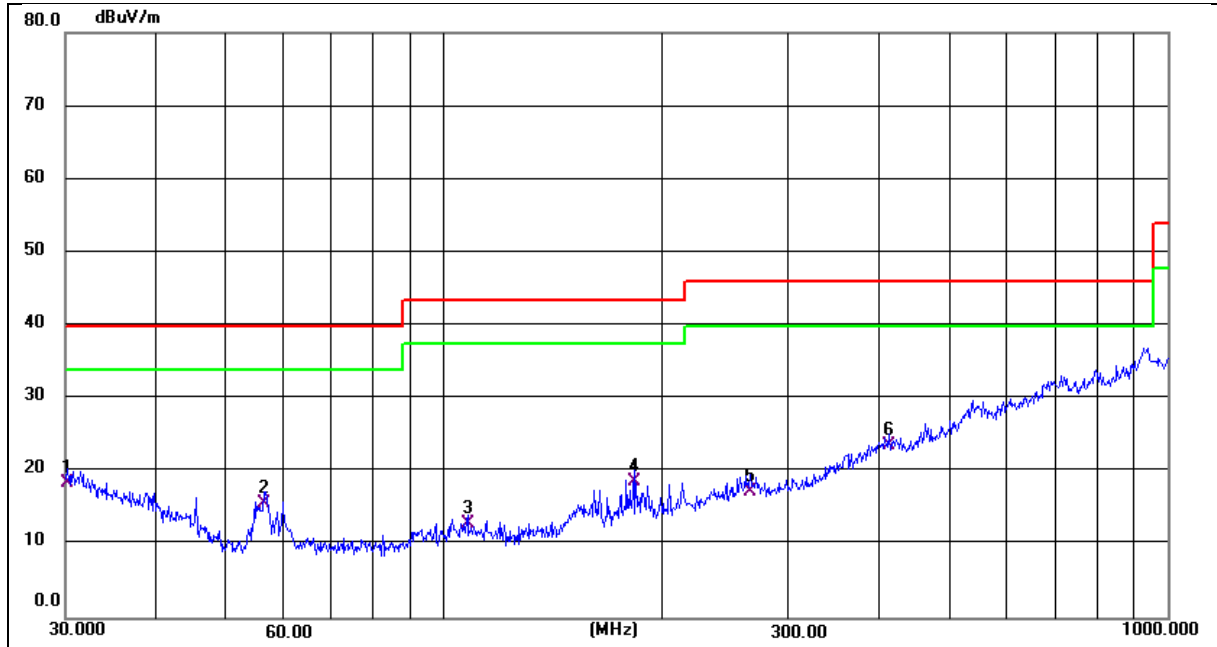
Temperature	24°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST MODE

Pre-test Mode:	M01 ~ M02
Final Test Mode:	M01, M02

Note: All test modes had been tested, but only the worst data recorded in the report.

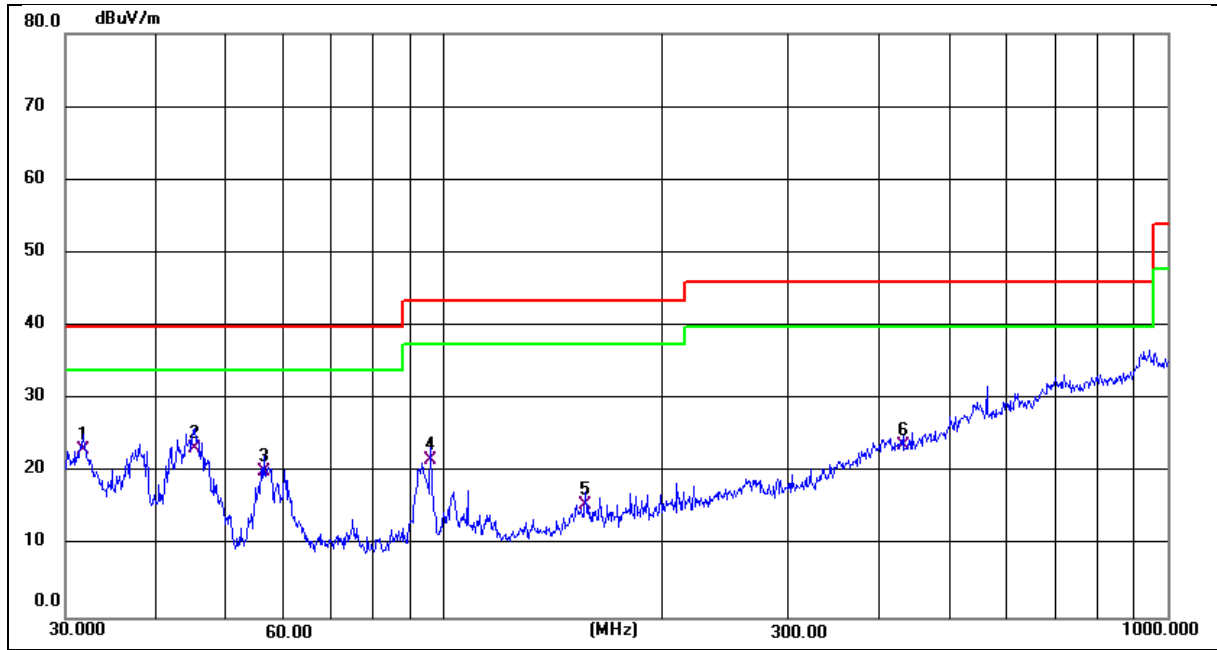
TEST RESULTS



Site:	FCC Part 15 Class B 3m Radiation(QP)	Antenna::Horizontal	Temperature(C):24(C)
Limit:	Astrid FM 5CCT remote Chrome	Test Time:	Humidity(%):51%
EUT:	M01	Power Rating:	2023/10/13
M/N.:		Test Engineer:	AC120V/60Hz
Mode:			Fink
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measurement(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1 *	30.2111	26.40	-7.85	18.55	40.00	-21.45	QP	
2	56.3948	33.39	-17.70	15.69	40.00	-24.31	QP	
3	107.8877	28.62	-15.59	13.03	43.50	-30.47	QP	
4	183.2005	32.92	-14.15	18.77	43.50	-24.73	QP	
5	265.6757	27.39	-9.98	17.41	46.00	-28.59	QP	
6	411.8240	28.57	-4.91	23.66	46.00	-22.34	QP	

*:Maximum data x:Over limit !:over margin



Site:	Antenna: Vertical	Temperature(C):24(C)
Limit: FCC Part 15 Class B 3m Radiation(QP)		Humidity(%):51%
EUT: Astrid FM 5CCT remote Chrome	Test Time: 2023/10/13	
M/N.: CML15-813	Power Rating: AC120V/60Hz	
Mode: M01	Test Engineer: Fink	
Note:		

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	31.7313	31.72	-8.62	23.10	40.00	-16.90	QP	
2 *	45.3755	39.21	-15.88	23.33	40.00	-16.67	QP	
3	56.3948	37.89	-17.70	20.19	40.00	-19.81	QP	
4	95.7622	38.46	-16.68	21.78	43.50	-21.72	QP	
5	157.0074	28.65	-13.19	15.46	43.50	-28.04	QP	
6	431.0316	29.12	-5.52	23.60	46.00	-22.40	QP	

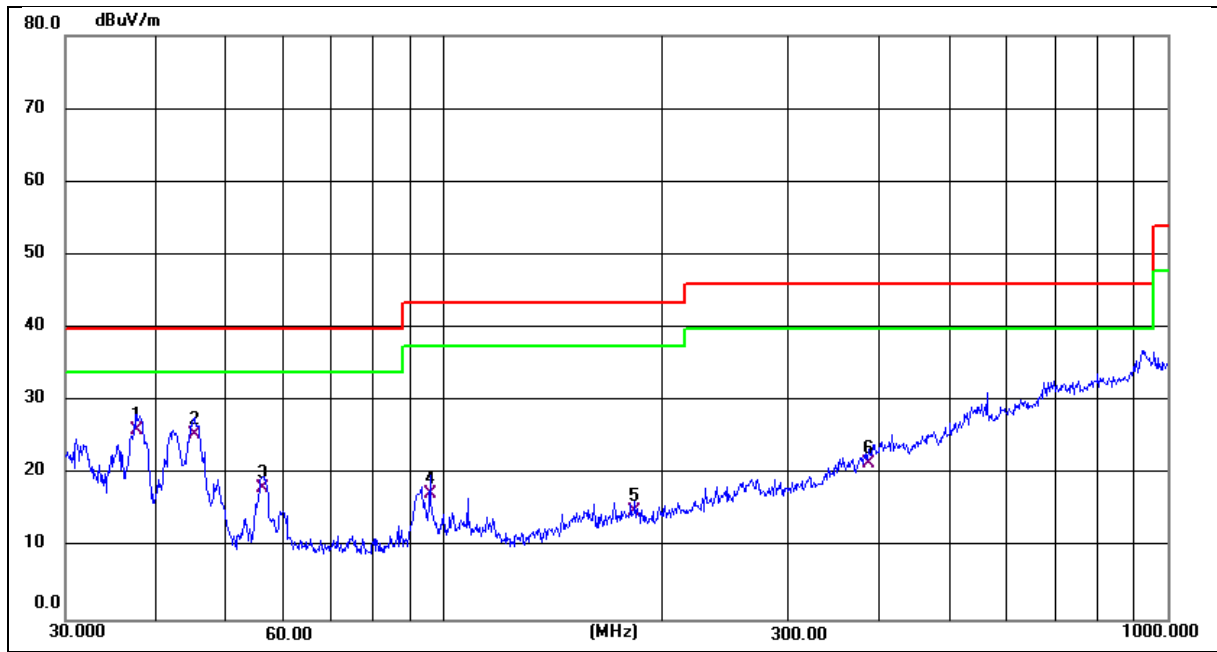
*:Maximum data x:Over limit !:over margin



Site:		Antenna:: Horizontal	Temperature(C): 24(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)		Humidity(%): 51%
EUT:	Astrid FM 5CCT remote Chrome	Test Time:	2023/10/13
M/N.:	CML15-813	Power Rating:	AC120V/60Hz
Mode:	M02	Test Engineer:	Fink
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1 *	30.2111	26.95	-7.85	19.10	40.00	-20.90	QP	
2	60.0691	34.22	-17.09	17.13	40.00	-22.87	QP	
3	114.5146	28.87	-16.22	12.65	43.50	-30.85	QP	
4	157.5588	27.97	-13.19	14.78	43.50	-28.72	QP	
5	268.4853	27.62	-10.21	17.41	46.00	-28.59	QP	
6	389.3549	29.20	-6.09	23.11	46.00	-22.89	QP	

*:Maximum data x:Over limit !:over margin



Site:		Antenna:: Vertical	Temperature(C): 24(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)		Humidity(%): 51%
EUT:	Astrid FM 5CCT remote Chrome	Test Time:	2023/10/13
M/N.:	CML15-813	Power Rating:	AC120V/60Hz
Mode:	M02	Test Engineer:	Fink
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1 *	37.6798	37.95	-11.84	26.11	40.00	-13.89	QP	
2	45.2166	41.33	-15.84	25.49	40.00	-14.51	QP	
3	56.1974	35.83	-17.73	18.10	40.00	-21.90	QP	
4	95.7622	34.09	-16.68	17.41	43.50	-26.09	QP	
5	183.8440	29.12	-14.21	14.91	43.50	-28.59	QP	
6	386.6338	27.76	-6.32	21.44	46.00	-24.56	QP	

Remark: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)
 2. Margin = Result - Limit

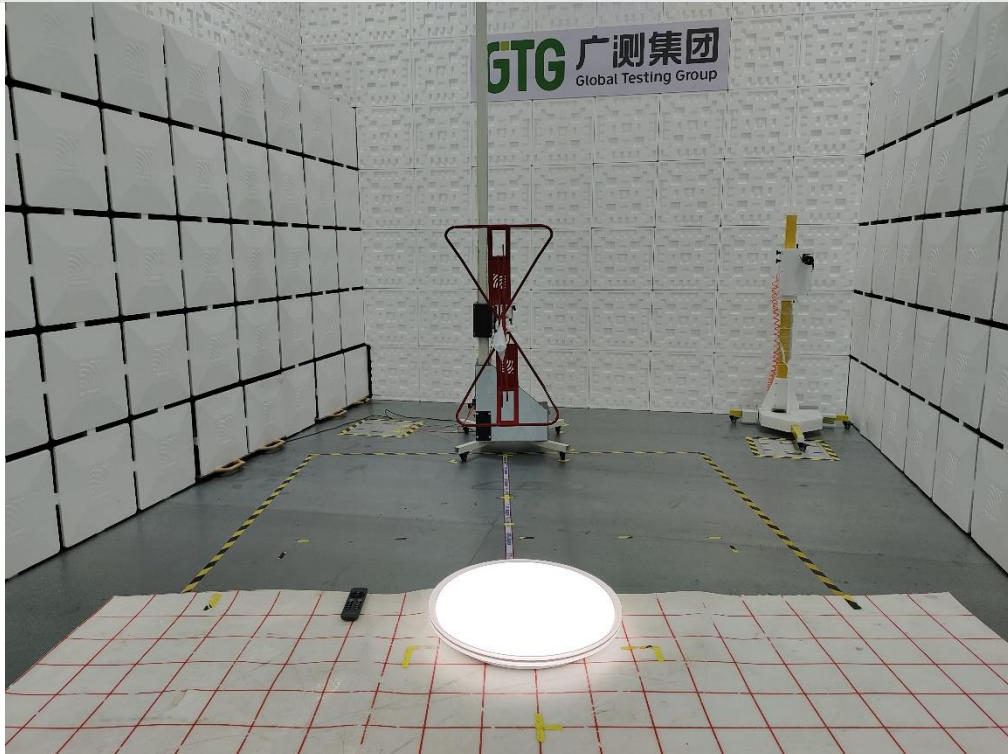
*:Maximum data x:Over limit !:over margin

APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

Conducted emissions

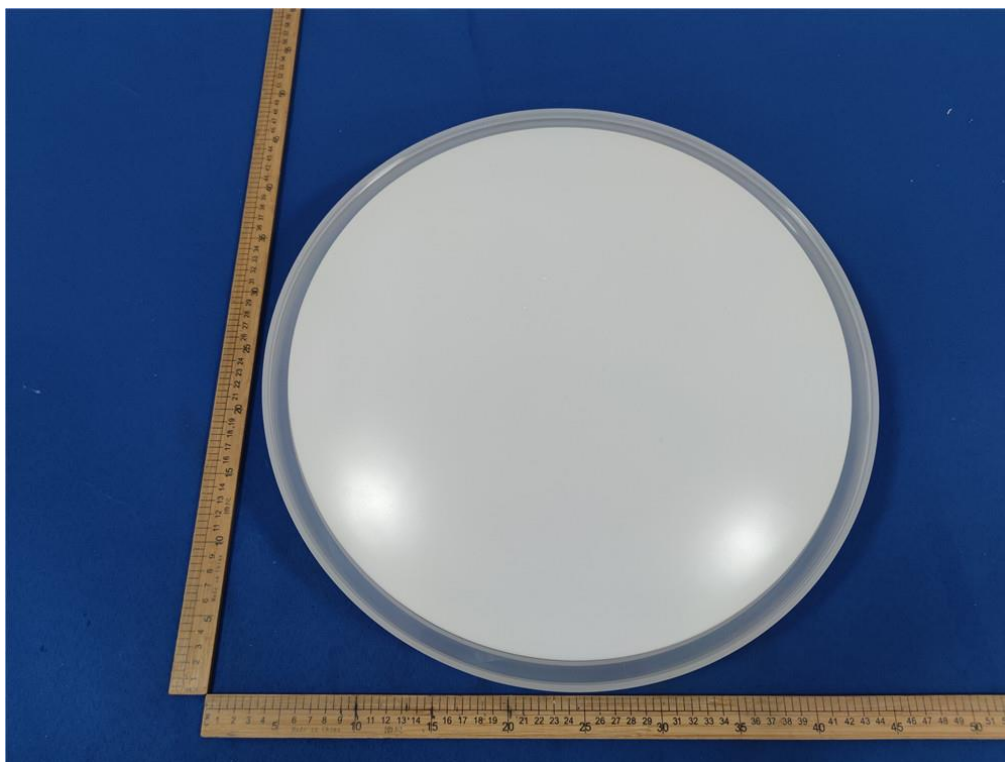


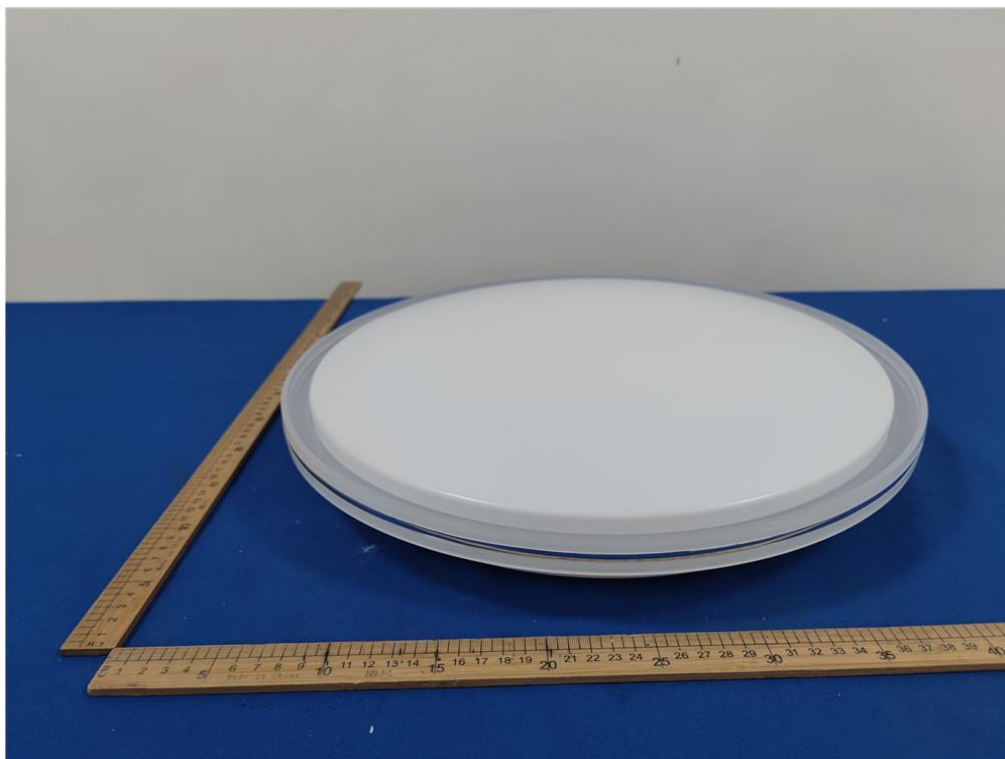
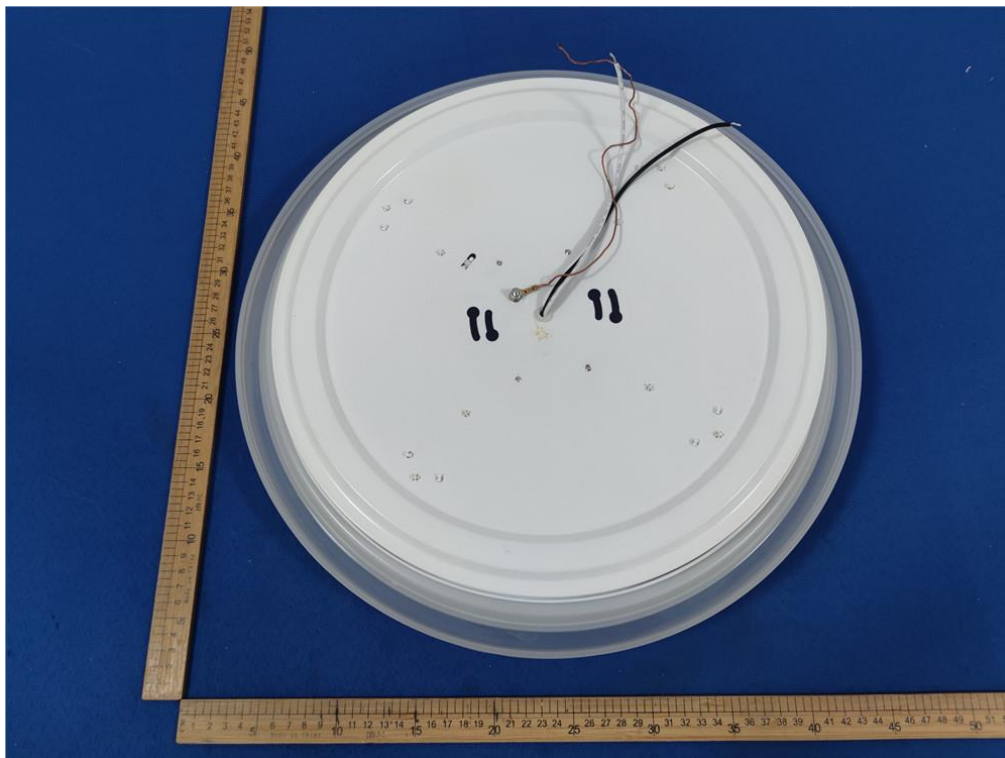
Radiated emissions below 1GHz

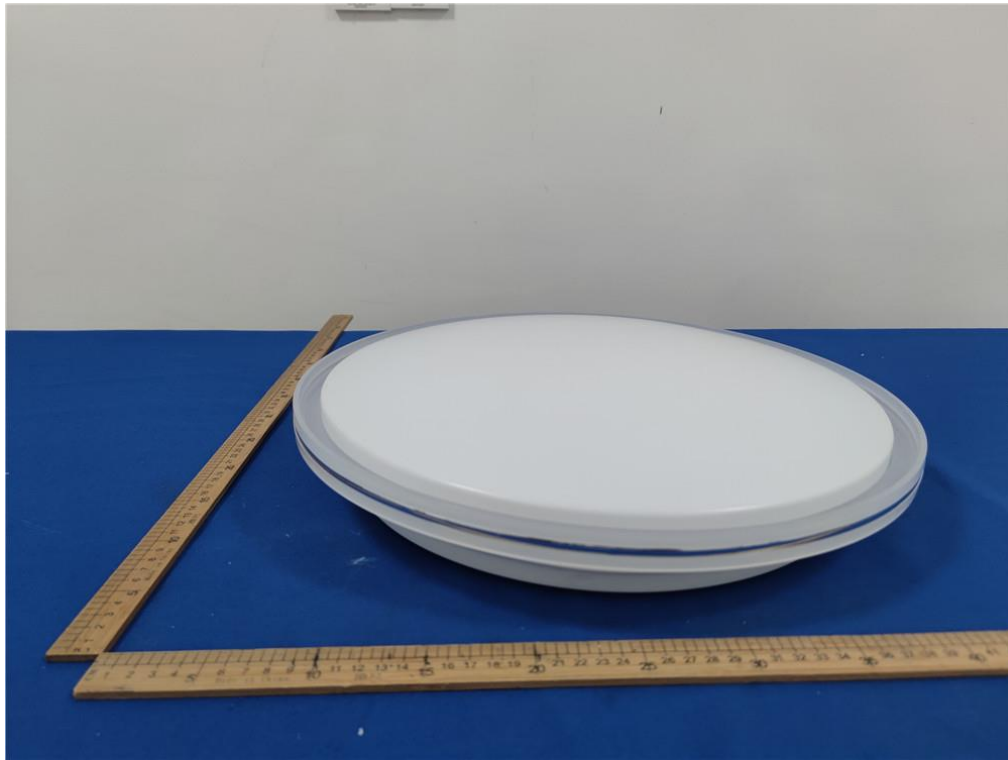


APPENDIX: PHOTOGRAPHS OF THE EUT

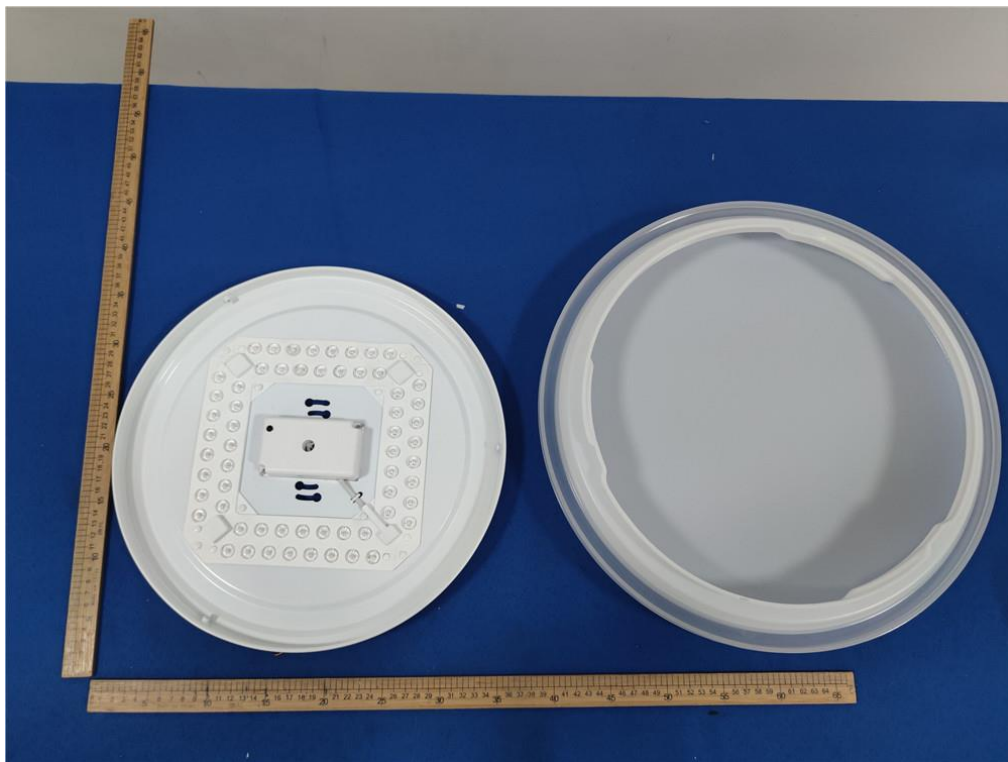
External

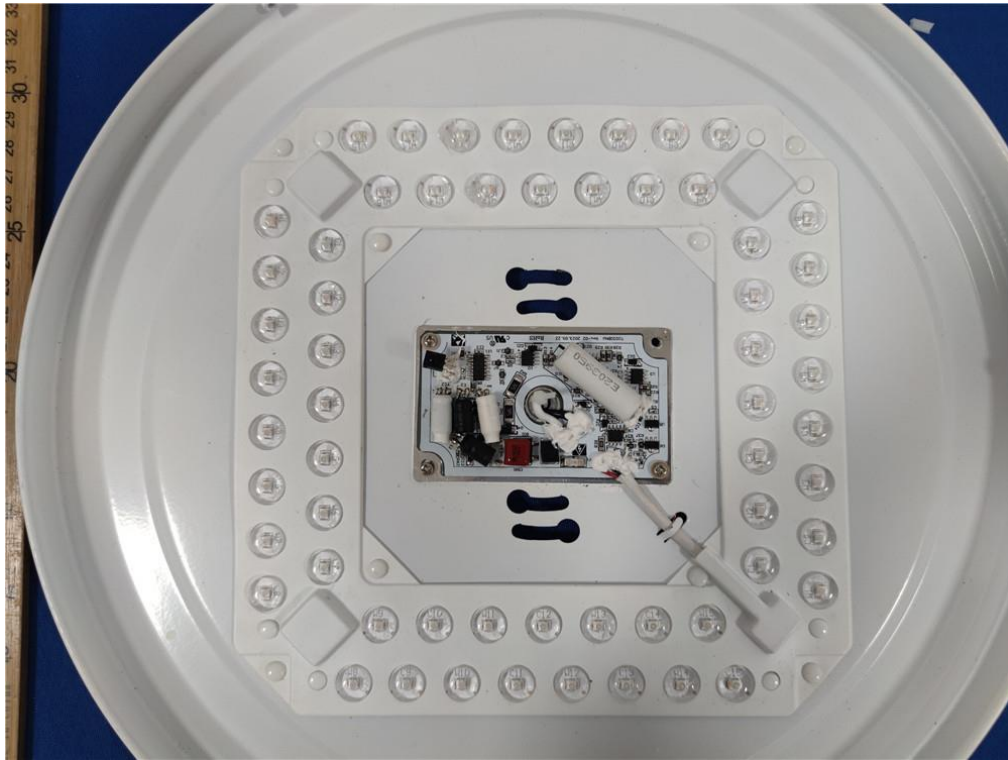


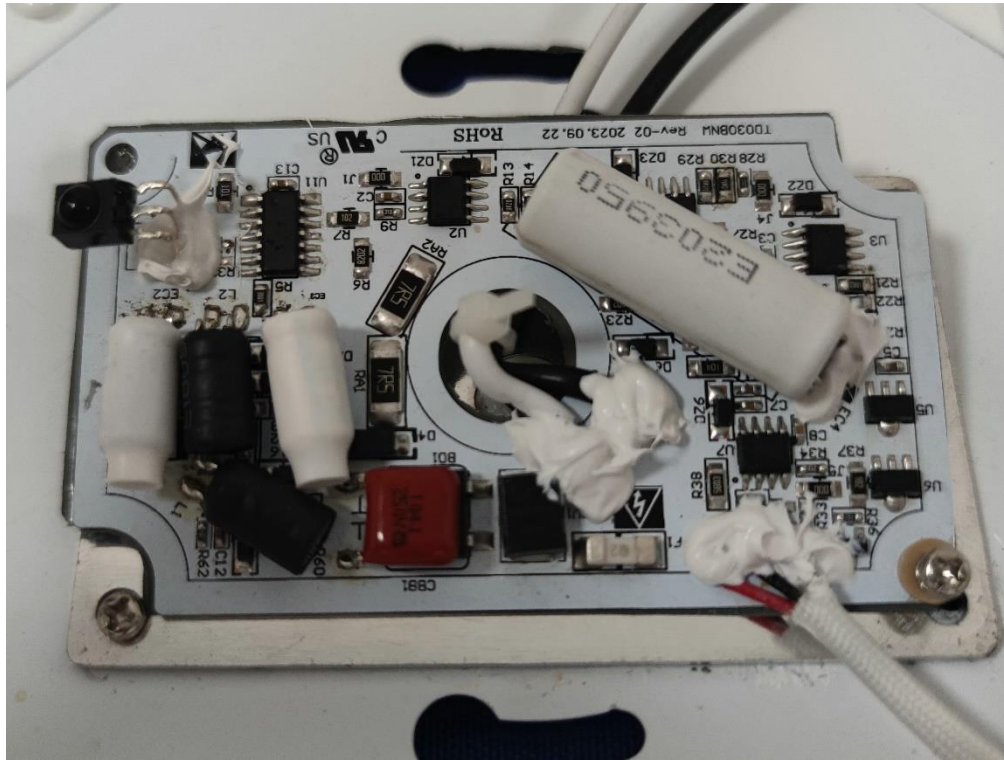




Internal







END OF REPORT