

FCC 47 CFR Part 15 Subpart B

TEST REPORT

For

LED Luminaire

MODEL NUMBER: CMF-300-100-277, CMF-300-347-480

REPORT NUMBER: 4791263489.1-1

ISSUE DATE: May 15, 2024

Prepared for

**Red Sky Lighting LLC
9370 Pittsburgh Ave, Rancho Cucamonga, CA 91730, USA**

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	May 15, 2024	Initial Issue	

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
	Radiated emissions above 1GHz	FCC Part 15.109	N/A (NOTE 1, 2)

Note:

1. N/A: In this whole report not applicable.

2. If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.

*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 <Simple Acceptance> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Red Sky Lighting LLC
Address: 9370 Pittsburgh Ave, Rancho Cucamonga, CA 91730, USA

Manufacturer Information

Company Name: Red Sky Lighting LLC
Address: 9370 Pittsburgh Ave, Rancho Cucamonga, CA 91730, USA

EUT Information


EUT Name: LED Luminaire
Model: CMF-300-100-277, CMF-300-347-480
Brand Name: **RED SKY**

SERIOUSLY SAFE LIGHTS™

Sample Received Date: April 15, 2024
Sample ID: 7117068-1, 7117068-2
Date of Tested: April 24, 2024 to April 30, 2024

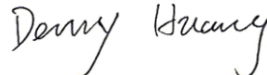
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart B	Pass

Prepared By:



Karl Wu
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Checked By:



Denny Huang
Senior Project Engineer

Approved By:



Stephen Guo
Operations 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.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p>VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20192 and R-20202 Shielding Room B, the VCCI registration No. is C-20153 and T-20155</p>
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Note:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

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 - 0.15 MHz	2	4.00
	0.15MHz - 30MHz	2	3.63
Radiated emissions below 1GHz	9kHz - 30MHz	2	2.20
	30MHz -1GHz	2	4.13
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	LED Luminaire
Model	CMF-300-100-277, CMF-300-347-480
Model Difference	All models have 0-10Vdc dimming function. CMF-300-100-277 and CMF-300-347-480 have same circuitry diagram, lamp beads, except model name, input voltage and LED driver. Therefore, full tests were applied on: CMF-300-100-277 with LED driver MU320H150AQ_CP; CMF-300-347-480 with LED driver MT320H105AQ1_CP
EUT Classification	Class A
Highest Internal Frequency	Below 108MHz
Ratings	100-277Vac, 50/60 Hz, 300 W 347-480Vac, 50/60 Hz, 300 W

Model List:

No.	Model	Manufacturer	Rated
1.	CMF-300-100-277	Shanghai Moons' Automation Control Co Ltd	100-277Vac, 50/60 Hz, 300 W
2.	CMF-300-347-480	Shanghai Moons' Automation Control Co Ltd	347-480Vac, 50/60 Hz, 300 W

Note: All the information above was provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

5.2. TEST MODE

Test Mode	Description
M01	ON+full load (0-10V dimming)

Note: only worst condition (dimming with the worst case) recorded in the report.

5.3. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr./Brand	Model/Type No.	Series No.	Note
E-1	DC power supply	ZHAOXIN	PS-305D	201606172929	UL Support

6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	101961	Oct. 13, 2023	Oct. 12, 2024
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct. 12, 2023	Oct. 11, 2024
Test Software for Conducted Emission	Farad	EZ-EMC	Ver.UL-3A1	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Aug. 2, 2021	Aug. 1, 2024
MXE EMI Receiver	KEYSIGHT	N9038A	MY56400036	Oct. 12, 2023	Oct. 11, 2024
Amplifier	HP	8447D	2944A09099	Oct. 12, 2023	Oct. 11, 2024
Test Software for Radiated Emission	Farad	EZ-EMC	Ver.UL-3A1	N/A	N/A

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.21, 2023	Oct.20, 2024
Barometer	Yiyi	Baro	N/A	Oct.19, 2023	Oct.18, 2024
Attenuator	Agilent	8495B	2814a12853	Oct.12, 2023	Oct.11, 2024

7. EMISSION TEST

7.1. CONDUCTED EMISSIONS

LIMITS

CFR 47 FCC Part15 Subpart B				
FREQUENCY (MHz)	Class A (dBμV)		Class B (dBμV)	
	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.

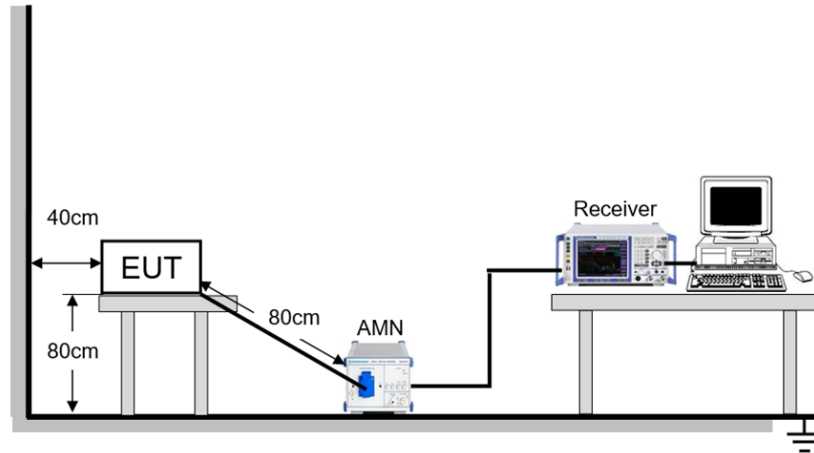
The following table is the setting of the receiver:

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	27.4°C	Relative Humidity	61.2%
Atmosphere Pressure	101kPa		

TEST DATE / ENGINEER

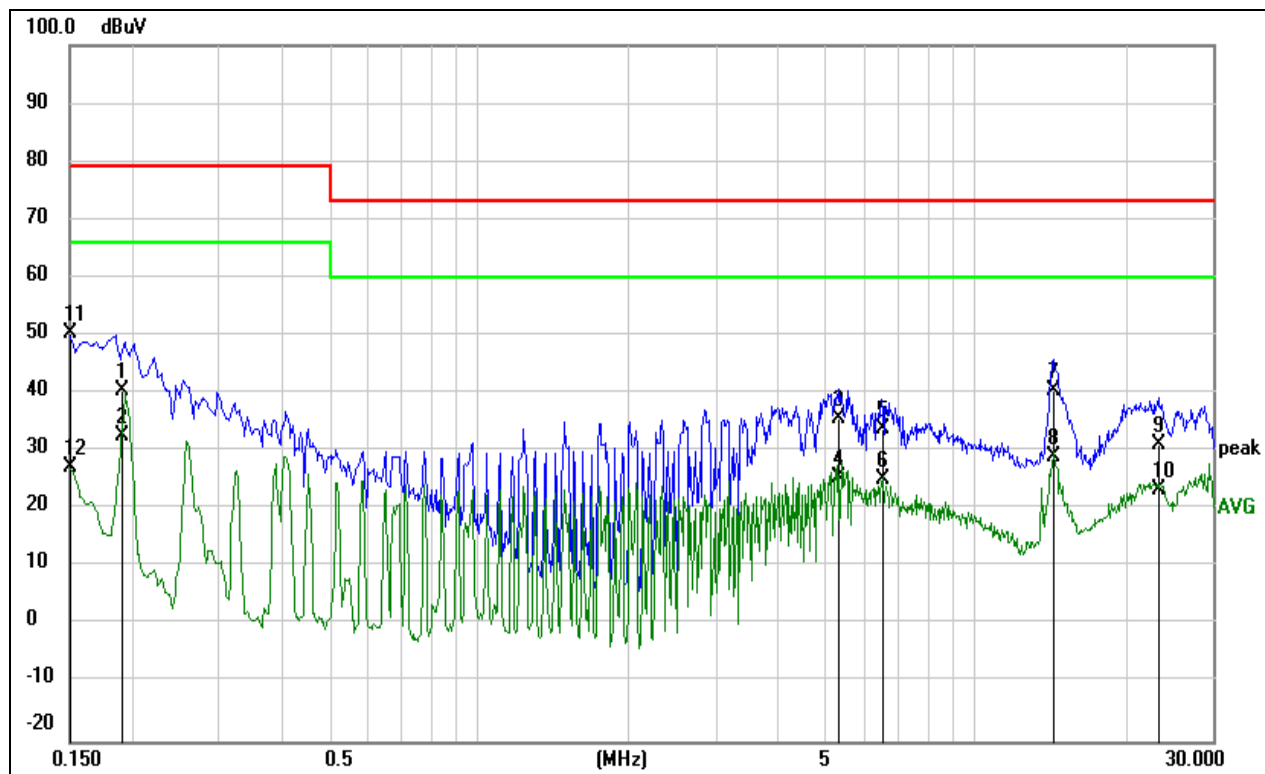
Test Date	April 30, 2024	Test By	Wite Chen
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TEST MODE

Pre-test Mode:	M01
Final Test Mode:	M01

TEST RESULTS

Test Mode:	M01	Line:	Line
Test Voltage:	AC 347V_60Hz	Model:	CMF-300-347-480

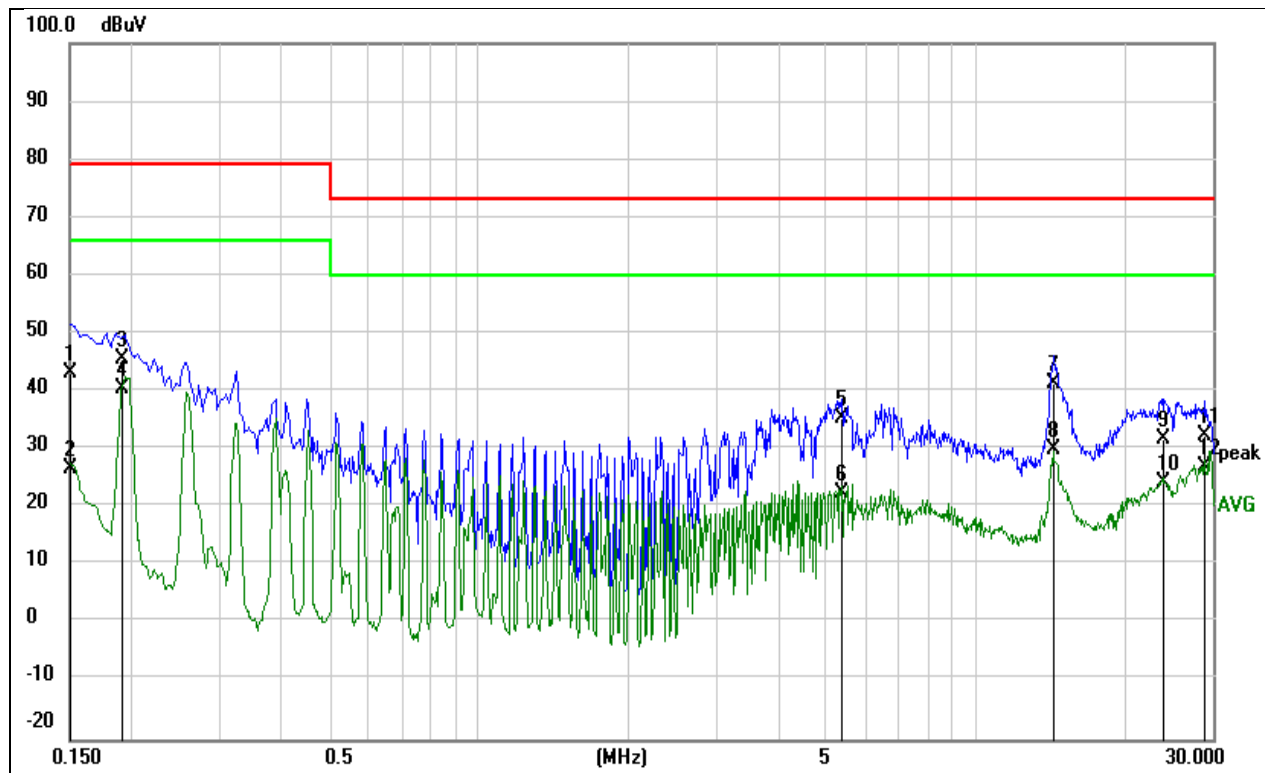


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1905	40.16	0.37	40.53	79.00	-38.47	QP
2	0.1905	32.28	0.37	32.65	66.00	-33.35	AVG
3	5.3207	35.03	0.73	35.76	73.00	-37.24	QP
4	5.3207	24.61	0.73	25.34	60.00	-34.66	AVG
5	6.4983	33.30	0.69	33.99	73.00	-39.01	QP
6	6.4983	24.33	0.69	25.02	60.00	-34.98	AVG
7	14.3831	39.82	0.71	40.53	73.00	-32.47	QP
8	14.3831	28.30	0.71	29.01	60.00	-30.99	AVG
9	23.3865	29.70	1.34	31.04	73.00	-41.96	QP
10	23.3865	21.93	1.34	23.27	60.00	-36.73	AVG
11	0.1500	49.89	0.37	50.26	79.00	-28.74	QP
12	0.1500	26.99	0.37	27.36	66.00	-38.64	AVG

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

Margin = Result - Limit

Test Mode:	M01	Line:	Neutral
Test Voltage:	AC 347V_60Hz	Model:	CMF-300-347-480

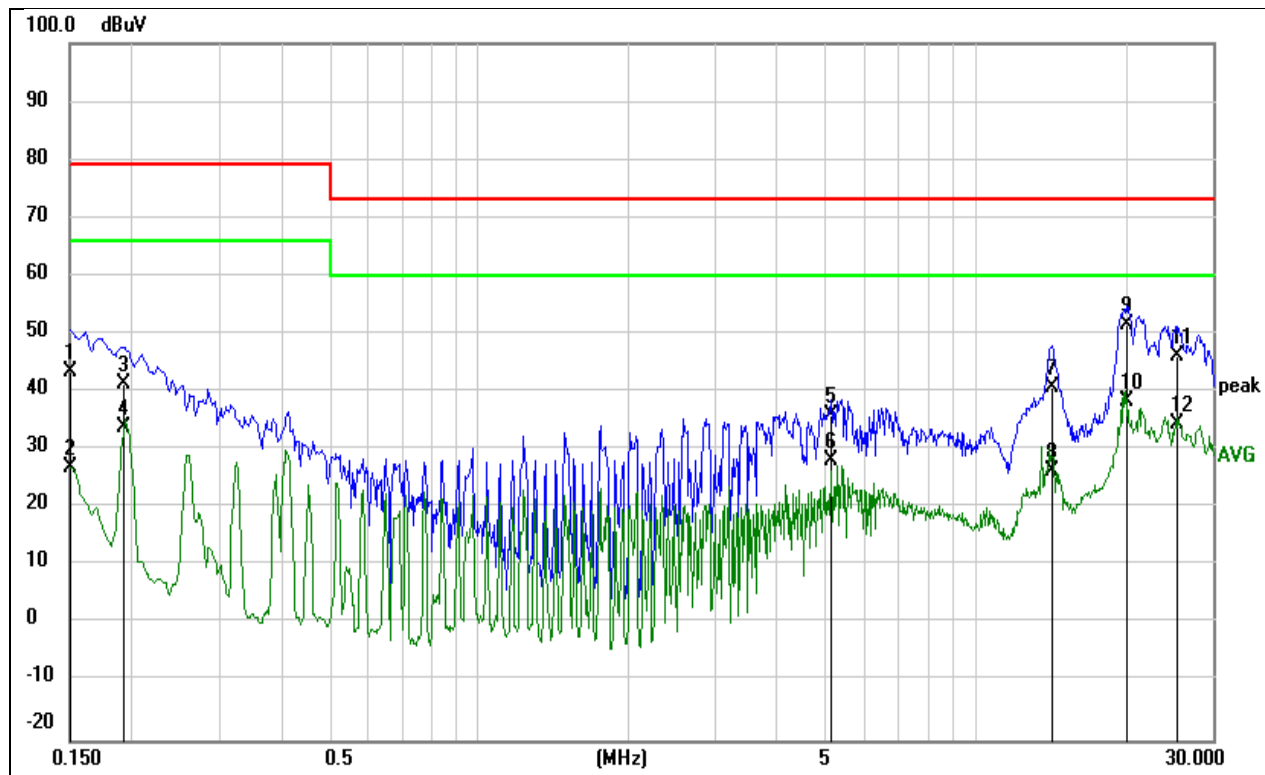


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1505	42.69	0.37	43.06	79.00	-35.94	QP
2	0.1505	26.39	0.37	26.76	66.00	-39.24	AVG
3	0.1910	45.05	0.37	45.42	79.00	-33.58	QP
4	0.1910	40.05	0.37	40.42	66.00	-25.58	AVG
5	5.3700	34.55	0.73	35.28	73.00	-37.72	QP
6	5.3700	21.87	0.73	22.60	60.00	-37.40	AVG
7	14.3507	40.55	0.71	41.26	73.00	-31.74	QP
8	14.3507	29.14	0.71	29.85	60.00	-30.15	AVG
9	24.0081	30.49	1.36	31.85	73.00	-41.15	QP
10	24.0081	22.88	1.36	24.24	60.00	-35.76	AVG
11	28.9907	31.02	1.46	32.48	73.00	-40.52	QP
12	28.9907	25.60	1.46	27.06	60.00	-32.94	AVG

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

Margin = Result - Limit

Test Mode:	M01	Line:	Line
Test Voltage:	AC 480V_60Hz	Model:	CMF-300-347-480

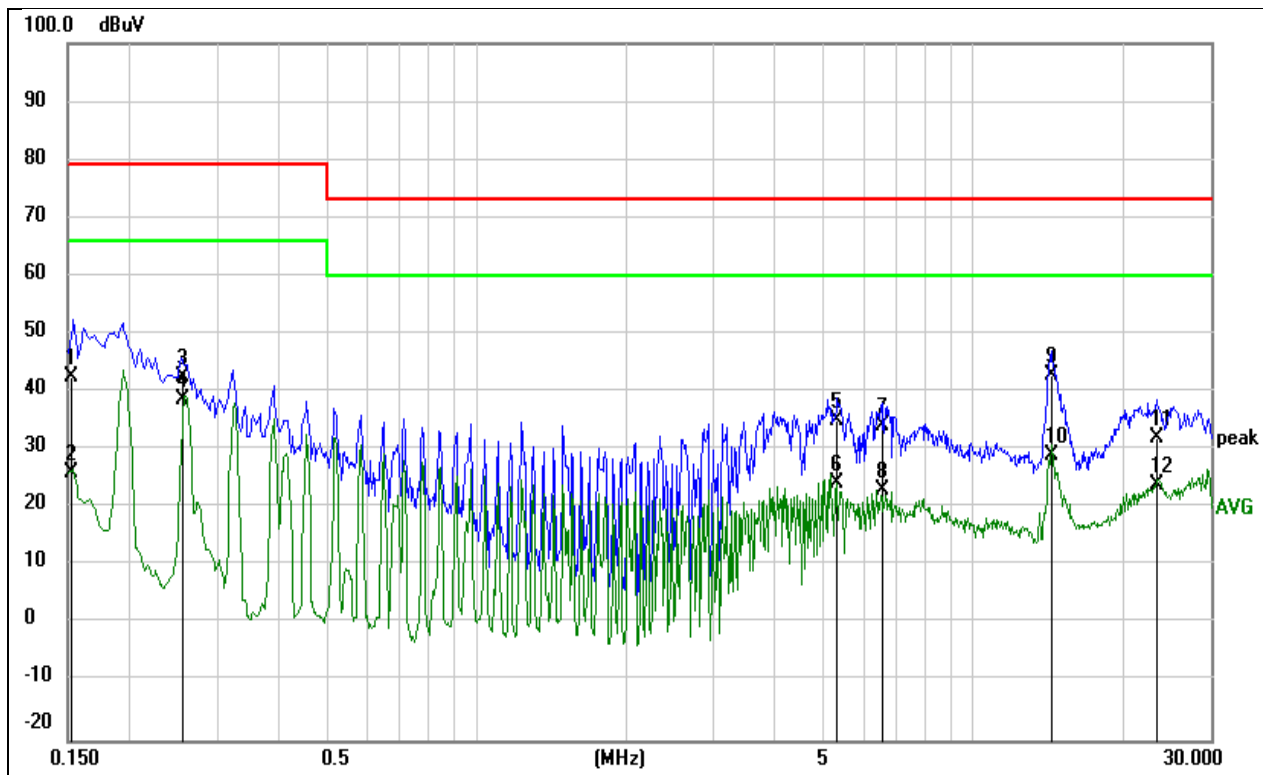


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1511	43.00	0.37	43.37	79.00	-35.63	QP
2	0.1511	26.50	0.37	26.87	66.00	-39.13	AVG
3	0.1929	40.96	0.54	41.50	79.00	-37.50	QP
4	0.1929	33.27	0.54	33.81	66.00	-32.19	AVG
5	5.1303	35.47	0.55	36.02	73.00	-36.98	QP
6	5.1303	27.70	0.55	28.25	60.00	-31.75	AVG
7	14.2843	39.61	1.09	40.70	73.00	-32.30	QP
8	14.2843	25.41	1.09	26.50	60.00	-33.50	AVG
9	20.1889	50.23	1.38	51.61	73.00	-21.39	QP
10	20.1889	36.89	1.38	38.27	60.00	-21.73	AVG
11	25.3875	44.64	1.48	46.12	73.00	-26.88	QP
12	25.3875	33.10	1.48	34.58	60.00	-25.42	AVG

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

Margin = Result - Limit

Test Mode:	M01	Line:	Neutral
Test Voltage:	AC 480V_60Hz	Model:	CMF-300-347-480

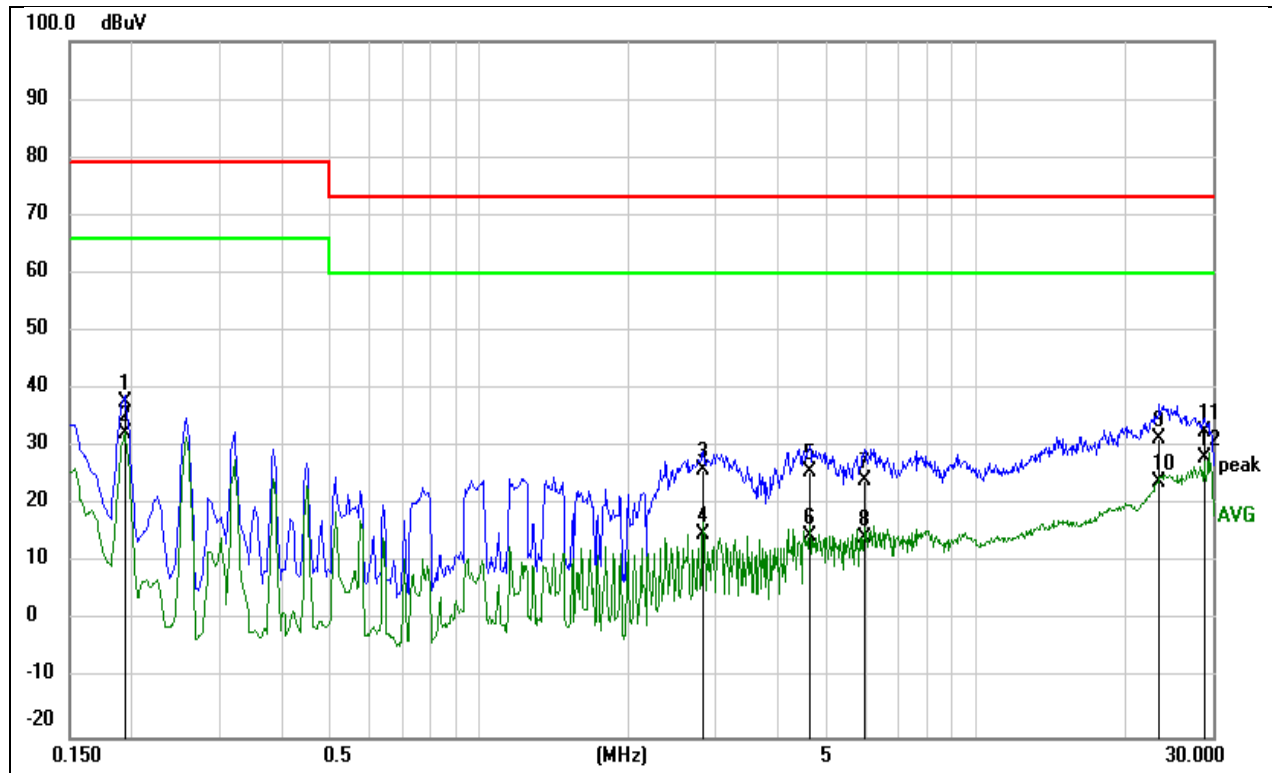


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1521	42.31	0.38	42.69	79.00	-36.31	QP
2	0.1521	25.79	0.38	26.17	66.00	-39.83	AVG
3	0.2576	42.07	0.52	42.59	79.00	-36.41	QP
4	0.2576	38.04	0.52	38.56	66.00	-27.44	AVG
5	5.2929	34.51	0.55	35.06	73.00	-37.94	QP
6	5.2929	23.58	0.55	24.13	60.00	-35.87	AVG
7	6.5516	33.65	0.65	34.30	73.00	-38.70	QP
8	6.5516	22.35	0.65	23.00	60.00	-37.00	AVG
9	14.3821	41.71	1.09	42.80	73.00	-30.20	QP
10	14.3821	28.03	1.09	29.12	60.00	-30.88	AVG
11	23.4220	30.52	1.44	31.96	73.00	-41.04	QP
12	23.4220	22.46	1.44	23.90	60.00	-36.10	AVG

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

Margin = Result - Limit

Test Mode:	M01	Line:	Line
Test Voltage:	AC 120V_60Hz	Model:	CMF-300-100-277

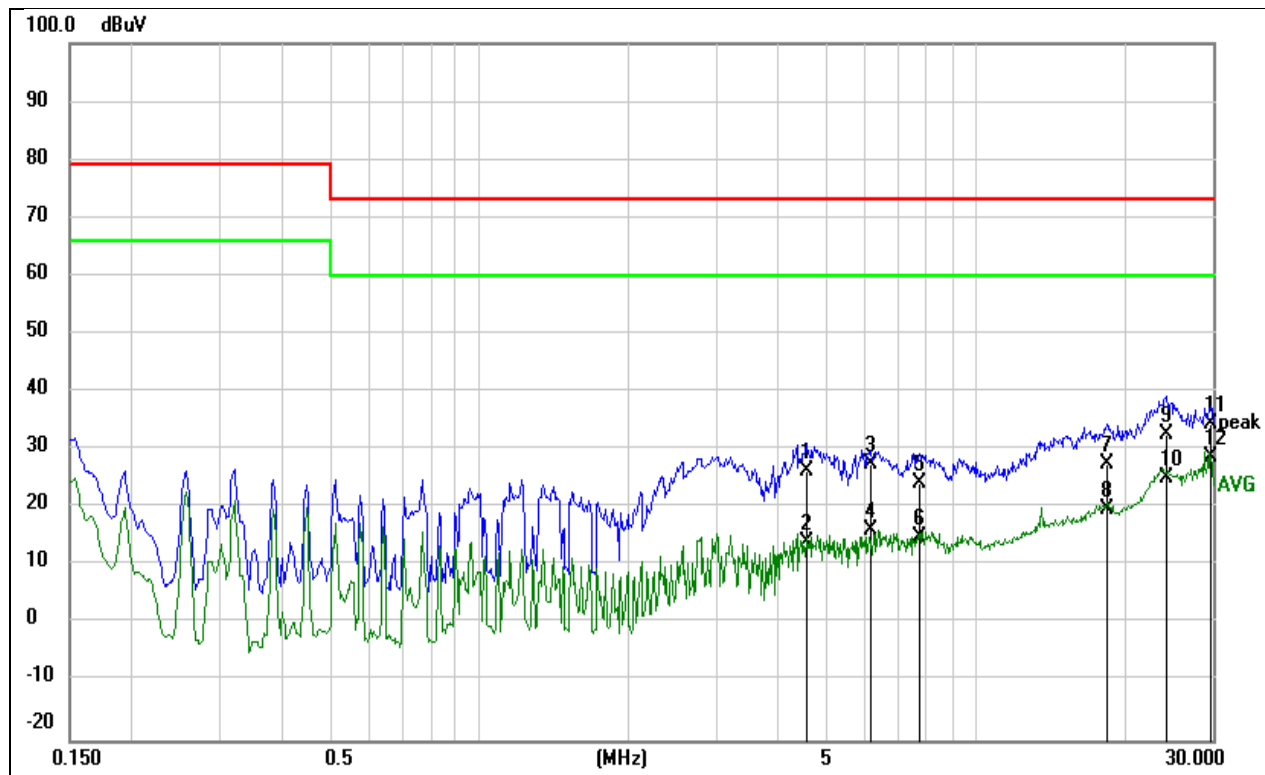


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1926	37.21	0.54	37.75	79.00	-41.25	QP
2	0.1926	31.74	0.54	32.28	66.00	-33.72	AVG
3	2.8374	25.37	0.65	26.02	73.00	-46.98	QP
4	2.8374	14.23	0.65	14.88	60.00	-45.12	AVG
5	4.6376	25.08	0.57	25.65	73.00	-47.35	QP
6	4.6376	14.06	0.57	14.63	60.00	-45.37	AVG
7	5.9898	23.75	0.62	24.37	73.00	-48.63	QP
8	5.9898	13.66	0.62	14.28	60.00	-45.72	AVG
9	23.4492	29.93	1.44	31.37	73.00	-41.63	QP
10	23.4492	22.37	1.44	23.81	60.00	-36.19	AVG
11	28.8305	31.08	1.56	32.64	73.00	-40.36	QP
12	28.8305	26.66	1.56	28.22	60.00	-31.78	AVG

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

Margin = Result - Limit

Test Mode:	M01	Line:	Neutral
Test Voltage:	AC 120V_60Hz	Model:	CMF-300-100-277

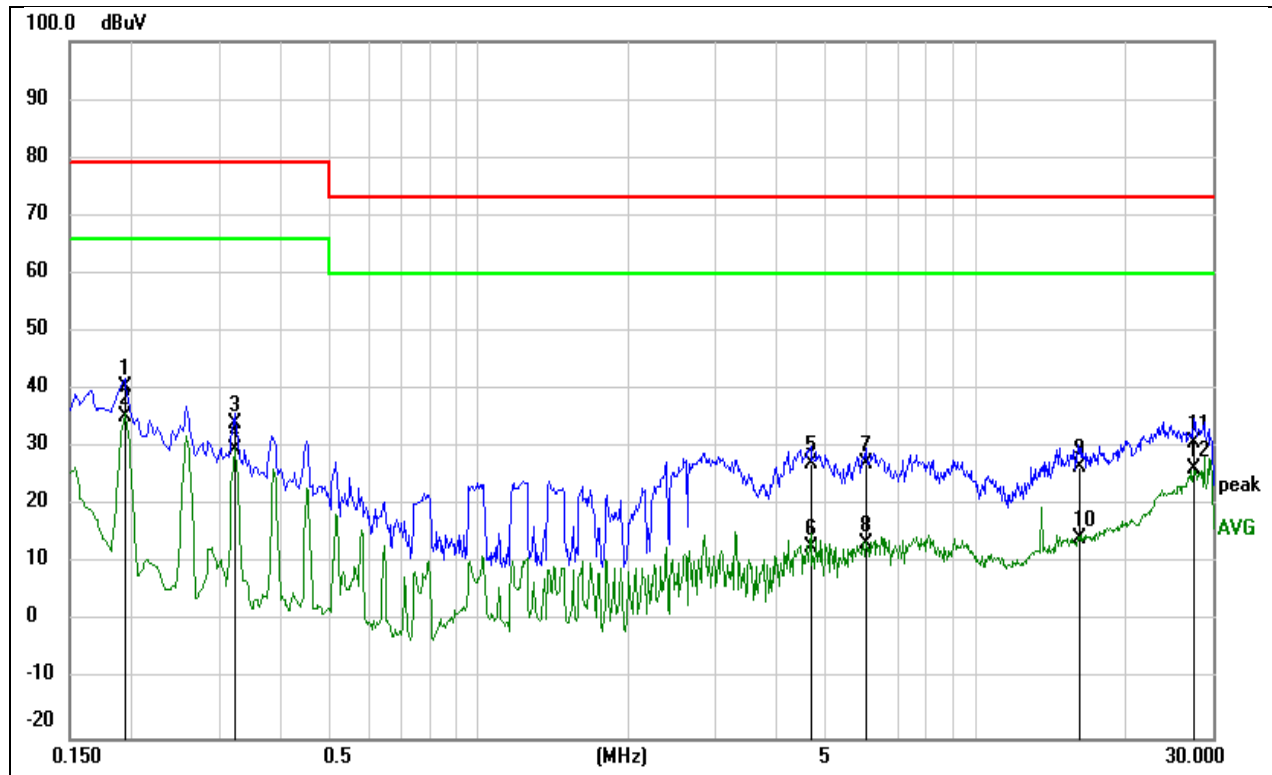


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	4.5670	25.75	0.57	26.32	73.00	-46.68	QP
2	4.5670	13.53	0.57	14.10	60.00	-45.90	AVG
3	6.1757	26.85	0.63	27.48	73.00	-45.52	QP
4	6.1757	15.66	0.63	16.29	60.00	-43.71	AVG
5	7.7194	23.46	0.74	24.20	73.00	-48.80	QP
6	7.7194	14.32	0.74	15.06	60.00	-44.94	AVG
7	18.4082	26.27	1.29	27.56	73.00	-45.44	QP
8	18.4082	18.56	1.29	19.85	60.00	-40.15	AVG
9	24.2701	31.17	1.46	32.63	73.00	-40.37	QP
10	24.2701	23.79	1.46	25.25	60.00	-34.75	AVG
11	29.8386	32.84	1.58	34.42	73.00	-38.58	QP
12	29.8386	27.05	1.58	28.63	60.00	-31.37	AVG

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

Margin = Result - Limit

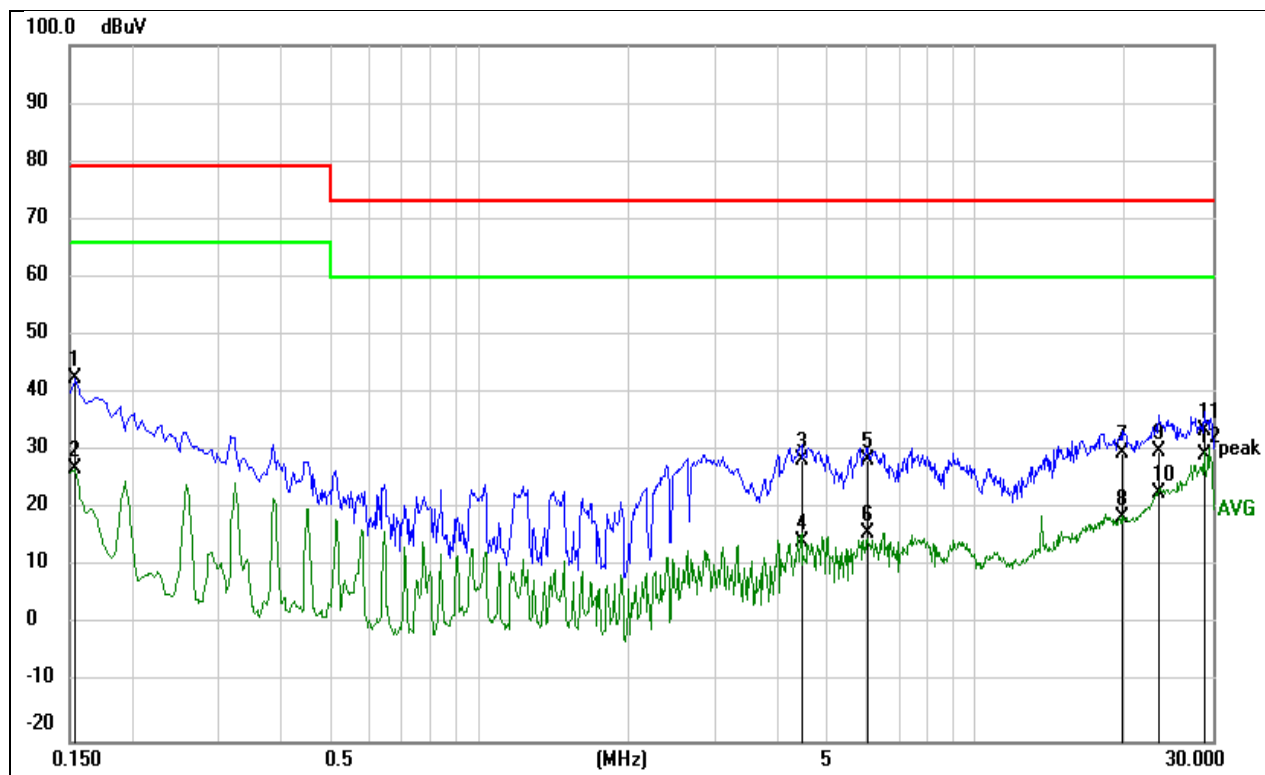
Test Mode:	M01	Line:	Line
Test Voltage:	AC 277V_60Hz	Model:	CMF-300-100-277



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1928	39.83	0.54	40.37	79.00	-38.63	QP
2	0.1928	34.86	0.54	35.40	66.00	-30.60	AVG
3	0.3225	33.83	0.46	34.29	79.00	-44.71	QP
4	0.3225	29.06	0.46	29.52	66.00	-36.48	AVG
5	4.6730	26.61	0.56	27.17	73.00	-45.83	QP
6	4.6730	12.40	0.56	12.96	60.00	-47.04	AVG
7	6.0430	26.49	0.62	27.11	73.00	-45.89	QP
8	6.0430	12.85	0.62	13.47	60.00	-46.53	AVG
9	16.2012	25.38	1.17	26.55	73.00	-46.45	QP
10	16.2012	13.30	1.17	14.47	60.00	-45.53	AVG
11	27.4181	29.26	1.52	30.78	73.00	-42.22	QP
12	27.4181	24.80	1.52	26.32	60.00	-33.68	AVG

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

Test Mode:	M01	Line:	Neutral
Test Voltage:	AC 277V_60Hz	Model:	CMF-300-100-277



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1539	42.28	0.39	42.67	79.00	-36.33	QP
2	0.1539	26.50	0.39	26.89	66.00	-39.11	AVG
3	4.4677	27.88	0.58	28.46	73.00	-44.54	QP
4	4.4677	13.91	0.58	14.49	60.00	-45.51	AVG
5	6.0741	27.74	0.62	28.36	73.00	-44.64	QP
6	6.0741	15.24	0.62	15.86	60.00	-44.14	AVG
7	19.7237	28.28	1.36	29.64	73.00	-43.36	QP
8	19.7237	17.07	1.36	18.43	60.00	-41.57	AVG
9	23.3981	28.59	1.44	30.03	73.00	-42.97	QP
10	23.3981	21.18	1.44	22.62	60.00	-37.38	AVG
11	28.8304	32.13	1.56	33.69	73.00	-39.31	QP
12	28.8304	27.85	1.56	29.41	60.00	-30.59	AVG

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

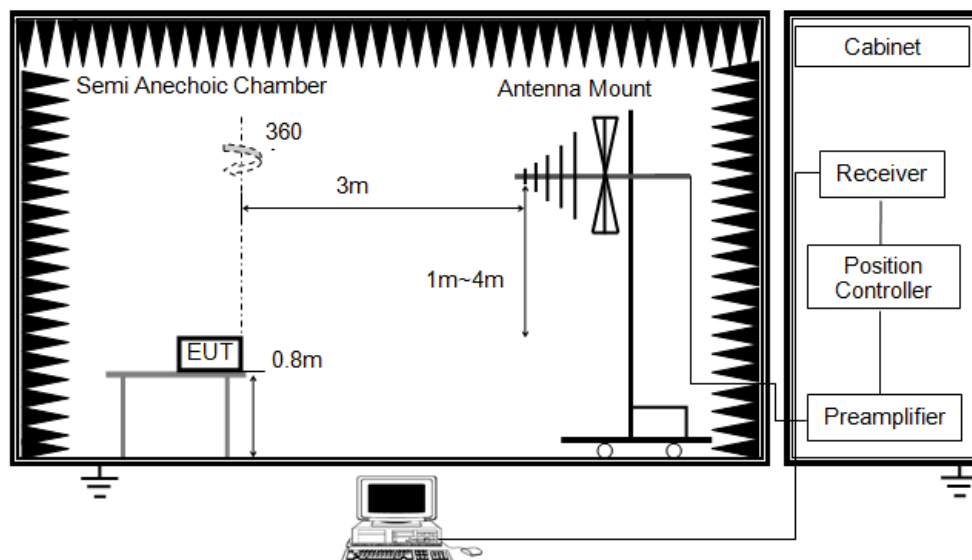
The setting of the spectrum analyser

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



Below 1 GHz and above 30 MHz

TEST ENVIRONMENT

Temperature	23.5°C	Relative Humidity	59%
Atmosphere Pressure	101kPa		

TEST DATE / ENGINEER

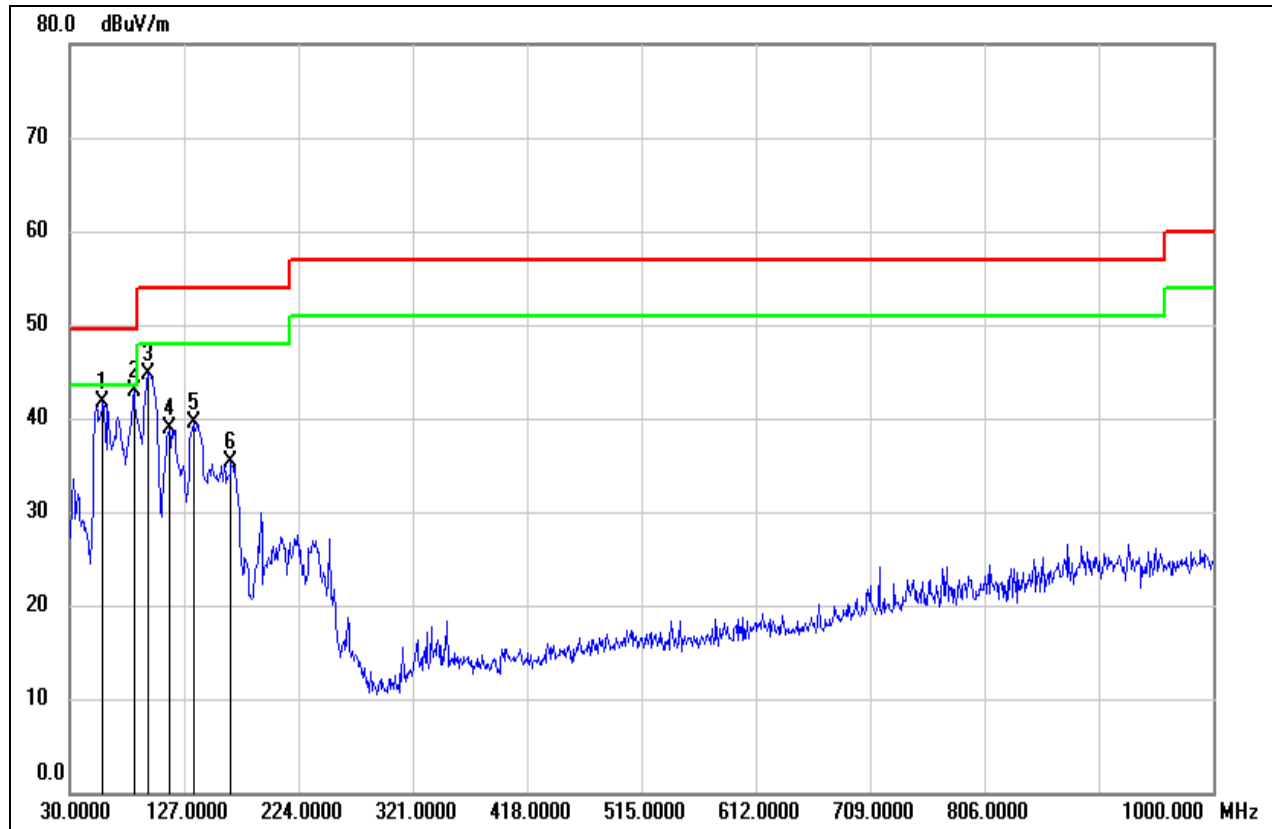
Test Date	April 24, 2024	Test By	Deacon Tan
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TEST MODE

Pre-test Mode:	M01
Final Test Mode:	M01

TEST RESULTS

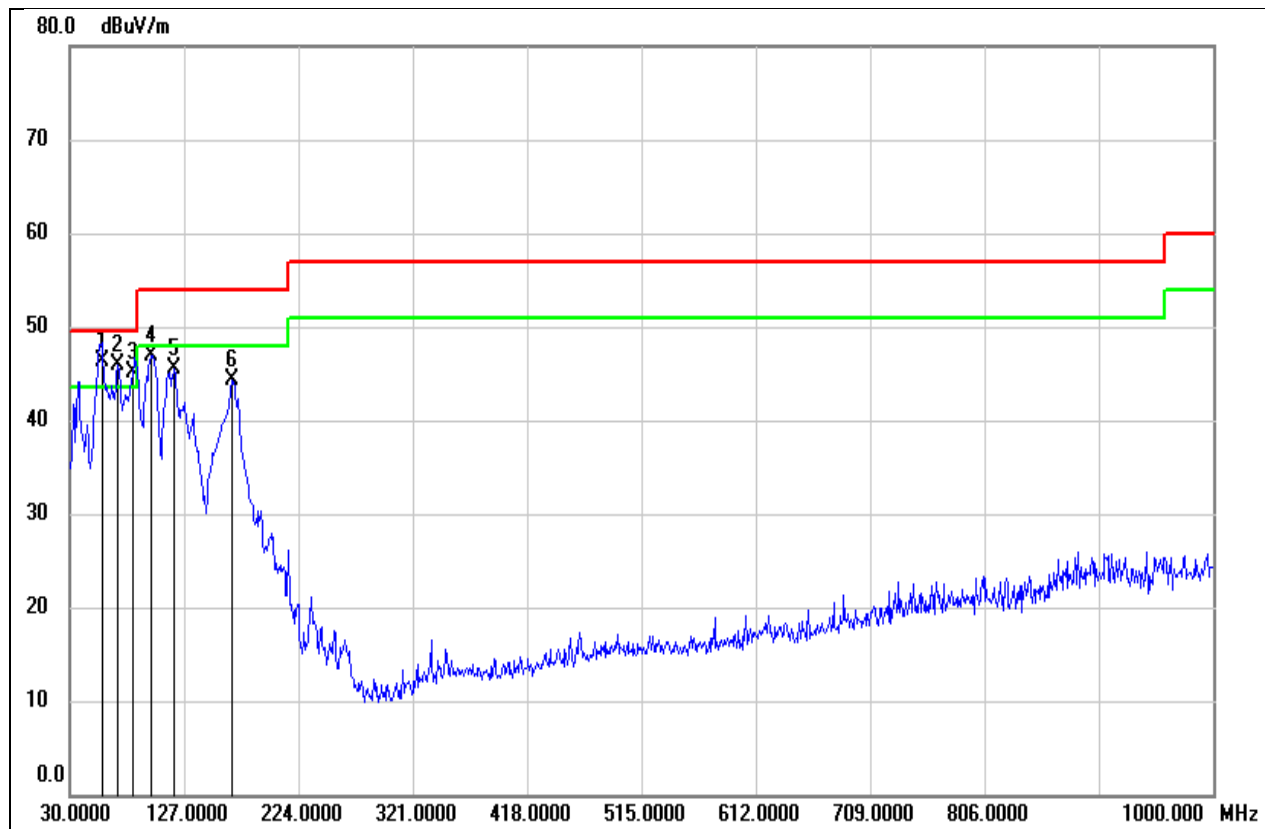
Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	AC 347V_60Hz	Model:	CMF-300-347-480



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	58.1300	56.88	-15.25	41.63	49.50	-7.87	QP
2	84.3200	59.67	-16.75	42.92	49.50	-6.58	QP
3	95.9600	61.61	-16.82	44.79	53.90	-9.11	QP
4	114.3900	54.24	-15.41	38.83	53.90	-15.07	QP
5	134.7600	53.90	-14.32	39.58	53.90	-14.32	QP
6	166.7700	47.71	-12.42	35.29	53.90	-18.61	QP

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

Test Mode:	M01	Polarity:	Vertical
Test Voltage:	AC 347V_60Hz	Model:	CMF-300-347-480

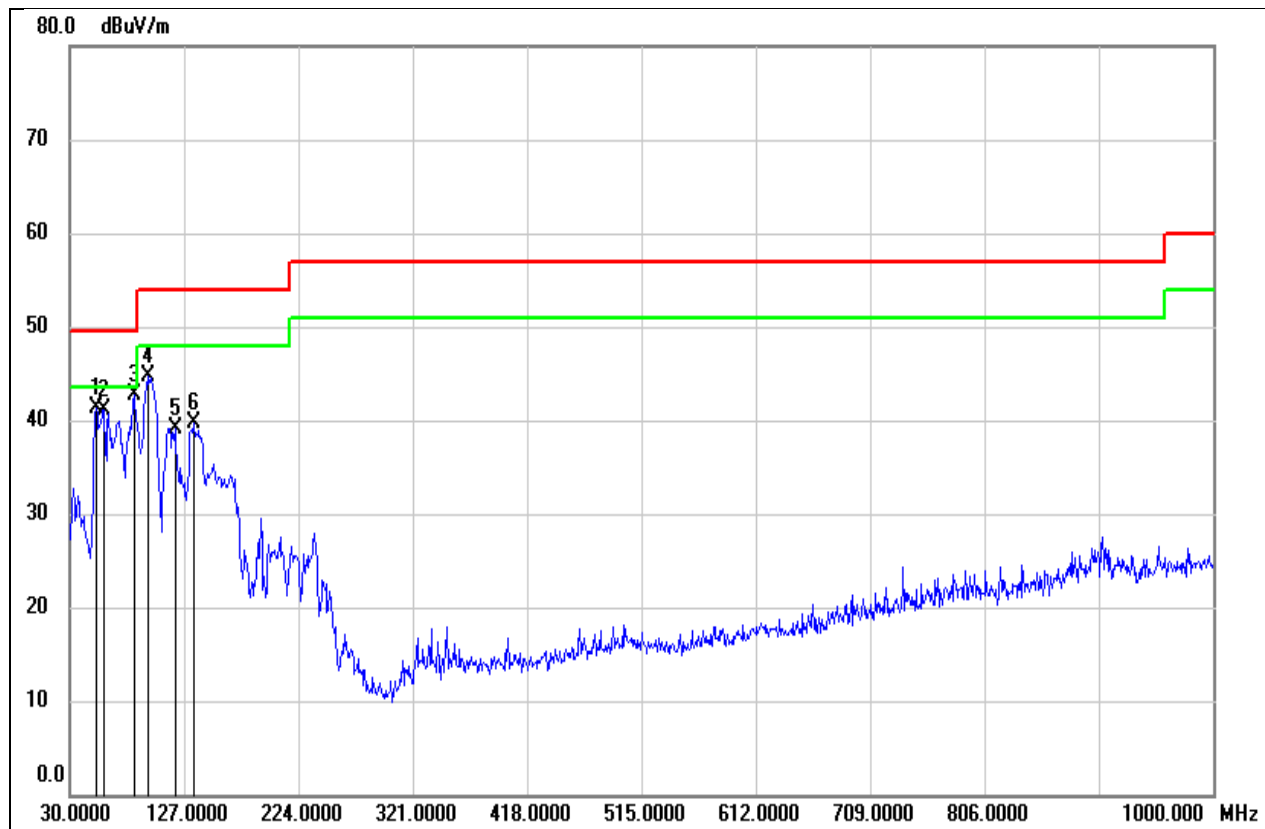


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	57.1600	61.62	-15.31	46.31	49.50	-3.19	QP
2	70.7400	61.61	-15.67	45.94	49.50	-3.56	QP
3	83.3500	61.69	-16.65	45.04	49.50	-4.46	QP
4	98.8700	63.56	-16.62	46.94	53.90	-6.96	QP
5	118.2700	60.75	-15.17	45.58	53.90	-8.32	QP
6	167.7400	56.67	-12.37	44.30	53.90	-9.60	QP

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

2. Margin = Result - Limit

Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	AC 480V_60Hz	Model:	CMF-300-347-480

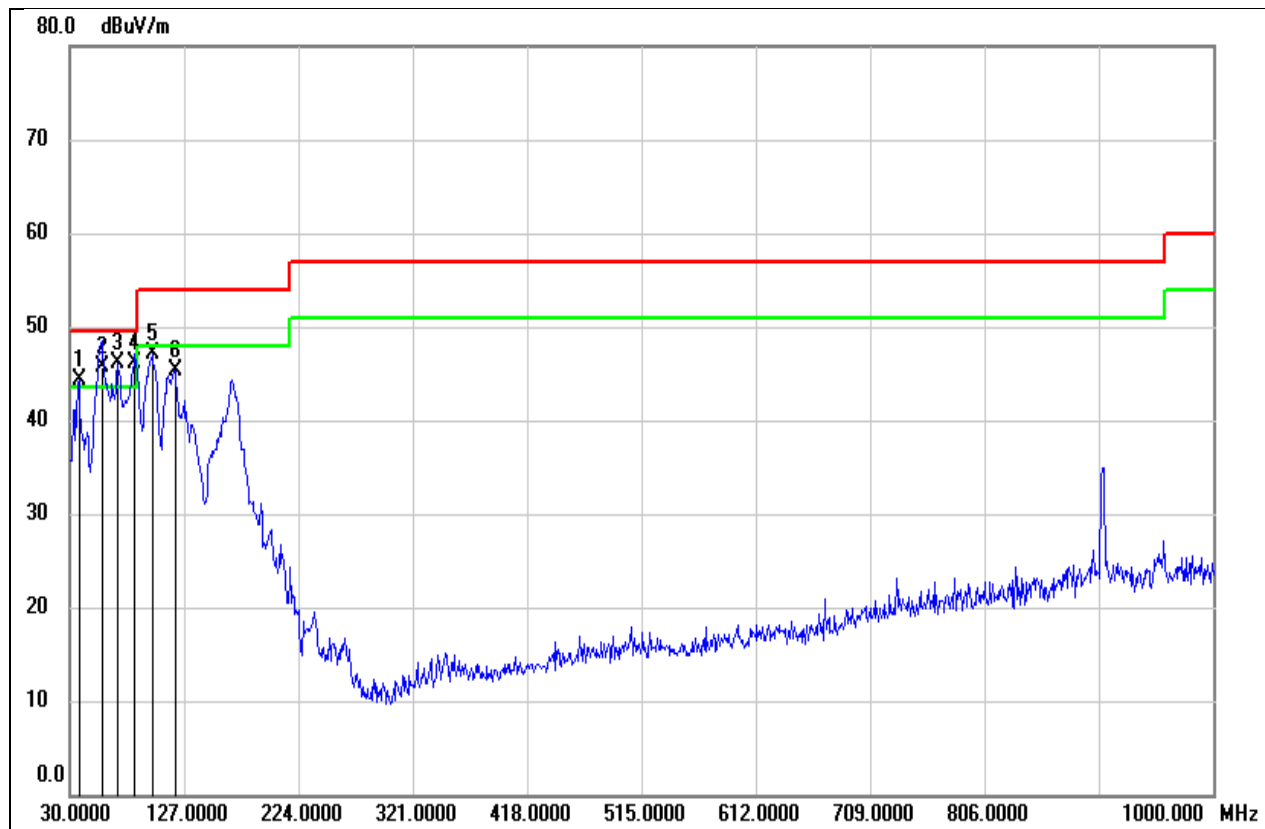


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	52.3100	56.89	-15.50	41.39	49.50	-8.11	QP
2	59.1000	56.27	-15.23	41.04	49.50	-8.46	QP
3	84.3200	59.41	-16.75	42.66	49.50	-6.84	QP
4	95.9600	61.55	-16.82	44.73	53.90	-9.17	QP
5	119.2400	54.27	-15.10	39.17	53.90	-14.73	QP
6	134.7600	54.08	-14.32	39.76	53.90	-14.14	QP

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

2. Margin = Result - Limit

Test Mode:	M01	Polarity:	Vertical
Test Voltage:	AC 480V_60Hz	Model:	CMF-300-347-480

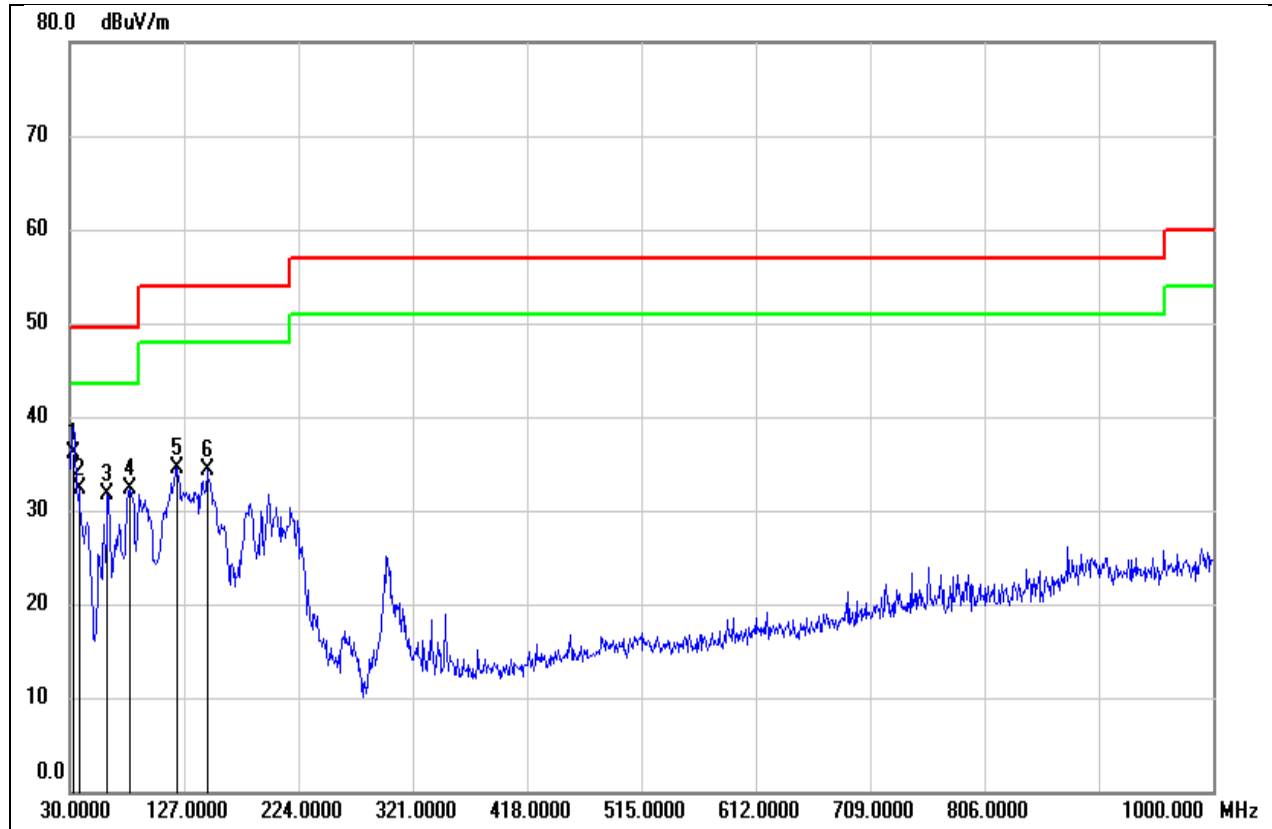


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	37.7599	58.81	-14.55	44.26	49.50	-5.24	QP
2	57.1600	61.01	-15.31	45.70	49.50	-3.80	QP
3	70.7400	61.81	-15.67	46.14	49.50	-3.36	QP
4	85.2900	62.89	-16.85	46.04	49.50	-3.46	QP
5	99.8399	63.73	-16.55	47.18	53.90	-6.72	QP
6	119.2400	60.44	-15.10	45.34	53.90	-8.56	QP

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

2. Margin = Result - Limit

Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	AC 120V_60Hz	Model:	CMF-300-100-277

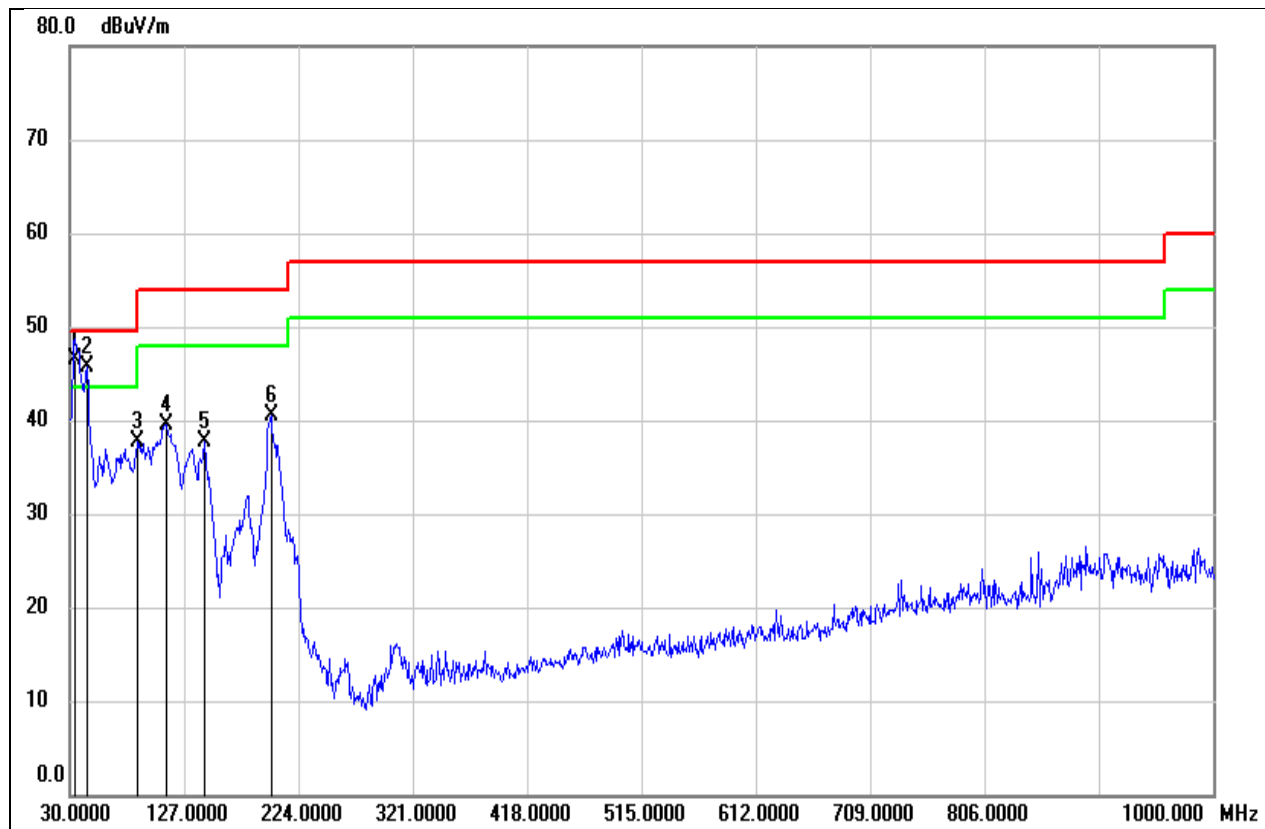


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.9100	49.85	-13.80	36.05	49.50	-13.45	QP
2	37.7599	46.93	-14.55	32.38	49.50	-17.12	QP
3	62.0100	47.03	-15.28	31.75	49.50	-17.75	QP
4	81.4100	48.76	-16.45	32.31	49.50	-17.19	QP
5	121.1800	49.55	-14.99	34.56	53.90	-19.34	QP
6	146.4000	48.12	-13.75	34.37	53.90	-19.53	QP

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

2. Margin = Result - Limit

Test Mode:	M01	Polarity:	Vertical
Test Voltage:	AC 120V_60Hz	Model:	CMF-300-100-277

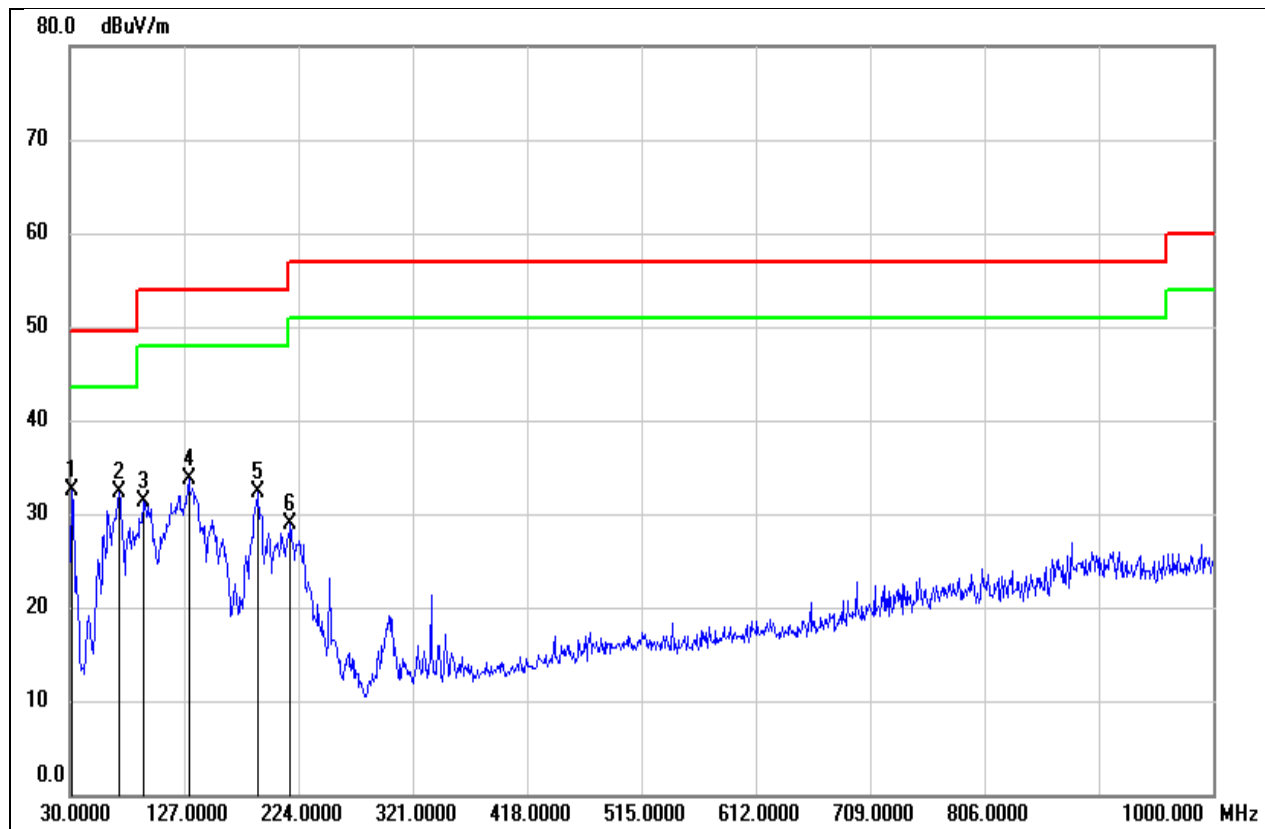


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.8800	60.48	-13.99	46.49	49.50	-3.01	QP
2	44.5500	60.95	-15.19	45.76	49.50	-3.74	QP
3	87.2300	54.65	-16.99	37.66	49.50	-11.84	QP
4	112.4500	55.02	-15.52	39.50	53.90	-14.40	QP
5	144.4600	51.56	-13.84	37.72	53.90	-16.18	QP
6	200.7200	52.58	-12.14	40.44	53.90	-13.46	QP

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

2. Margin = Result - Limit

Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	AC 277V_60Hz	Model:	CMF-300-100-277

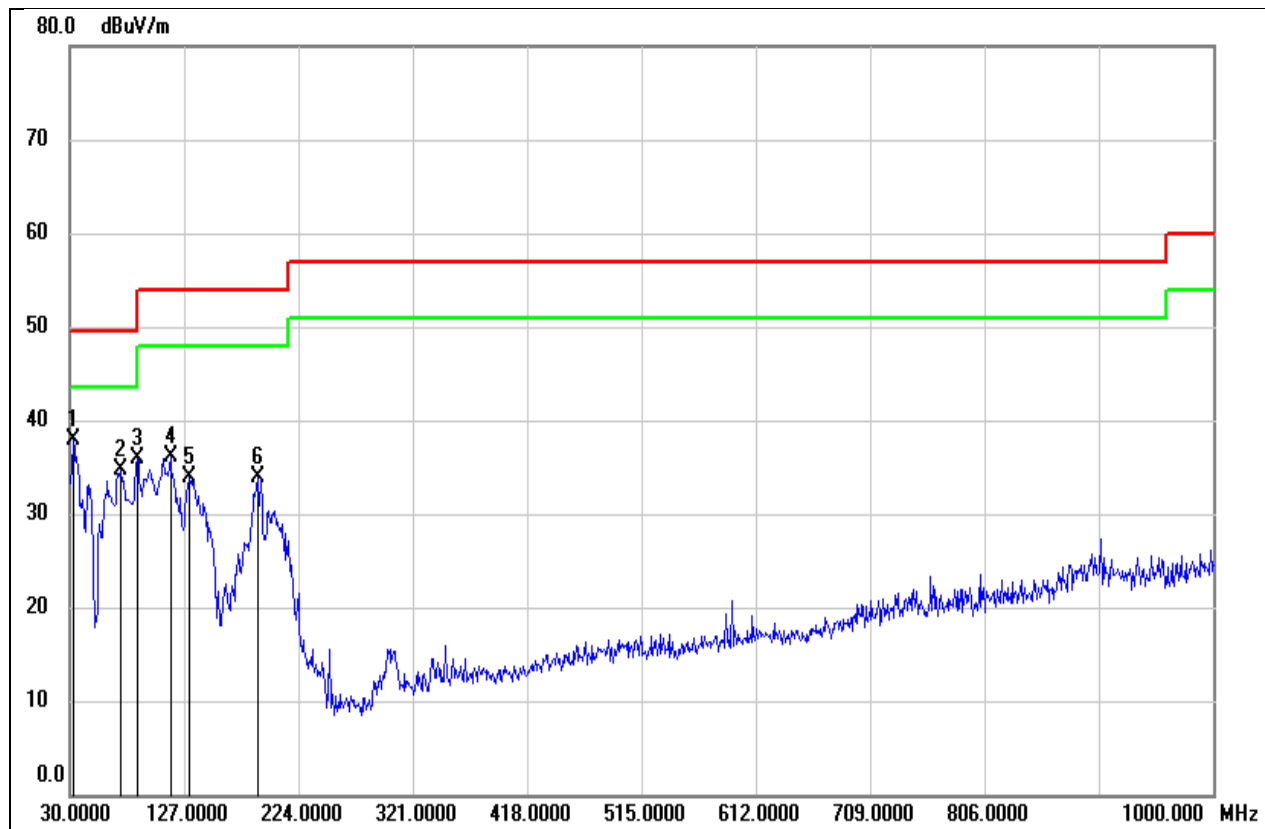


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.9400	46.04	-13.62	32.42	49.50	-17.08	QP
2	71.7100	48.01	-15.72	32.29	49.50	-17.21	QP
3	92.0800	48.31	-17.07	31.24	53.90	-22.66	QP
4	130.8800	48.13	-14.51	33.62	53.90	-20.28	QP
5	190.0500	44.57	-12.23	32.34	53.90	-21.56	QP
6	217.2100	41.77	-12.95	28.82	56.90	-28.08	QP

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

2. Margin = Result - Limit

Test Mode:	M01	Polarity:	Vertical
Test Voltage:	AC 277V_60Hz	Model:	CMF-300-100-277



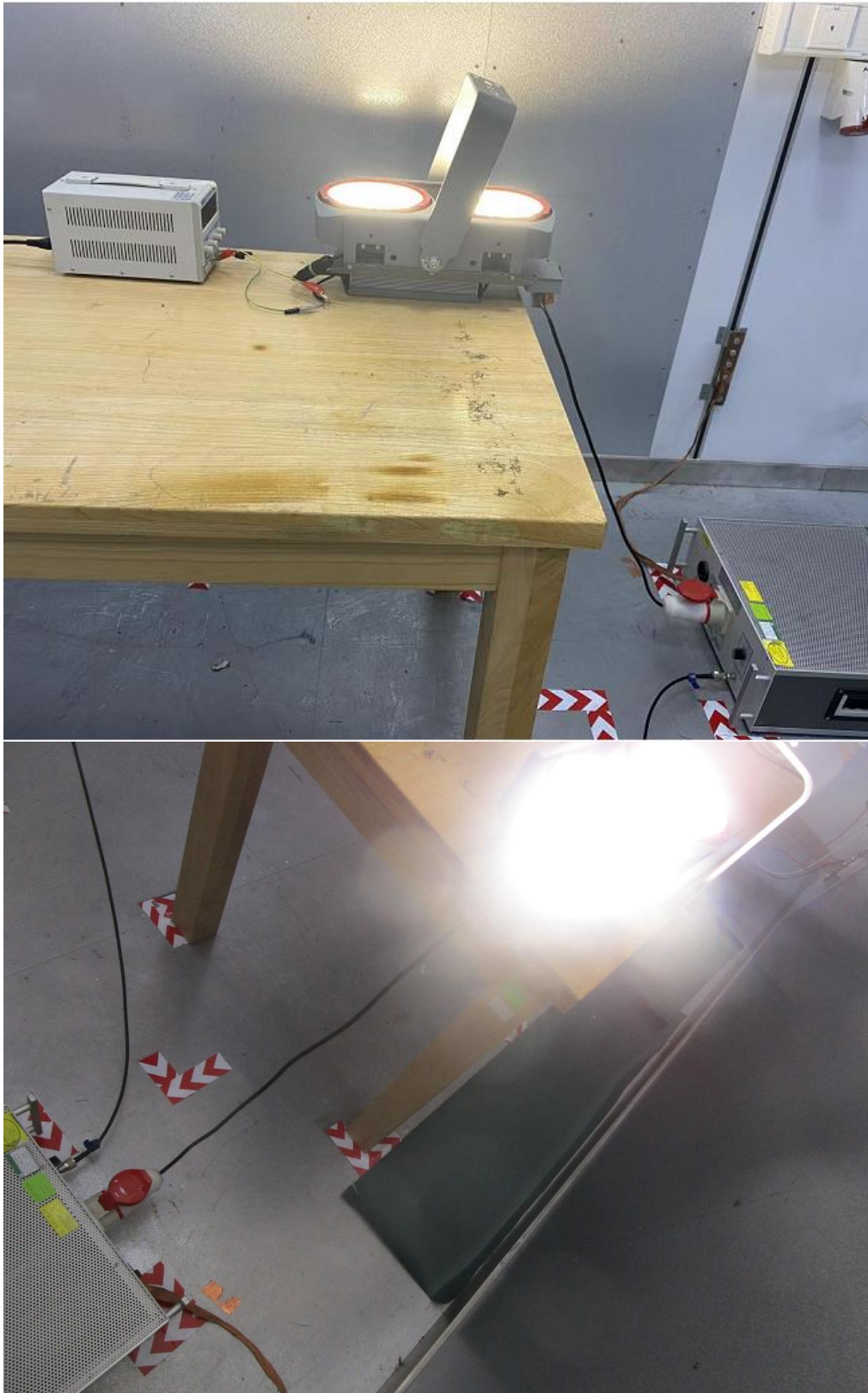
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.9100	51.71	-13.80	37.91	49.50	-11.59	QP
2	72.6800	50.56	-15.78	34.78	49.50	-14.72	QP
3	87.2300	52.86	-16.99	35.87	49.50	-13.63	QP
4	115.3600	51.53	-15.37	36.16	53.90	-17.74	QP
5	131.8500	48.39	-14.47	33.92	53.90	-19.98	QP
6	189.0800	46.15	-12.19	33.96	53.90	-19.94	QP

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

2. Margin = Result - Limit

APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

Conducted emissions

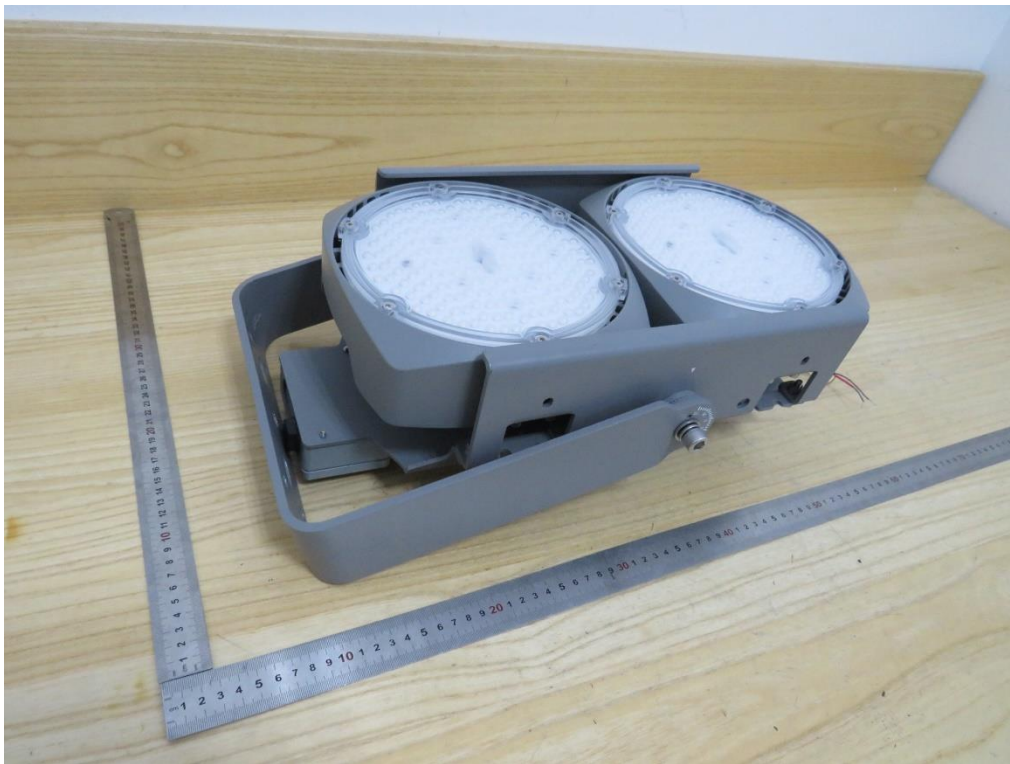
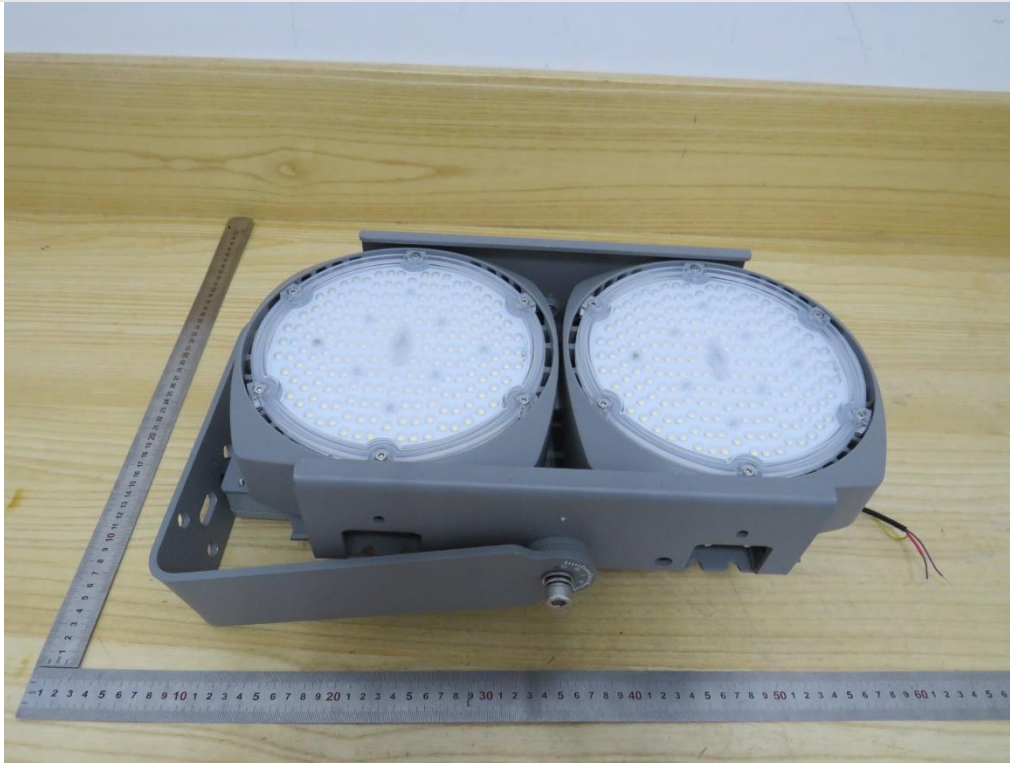


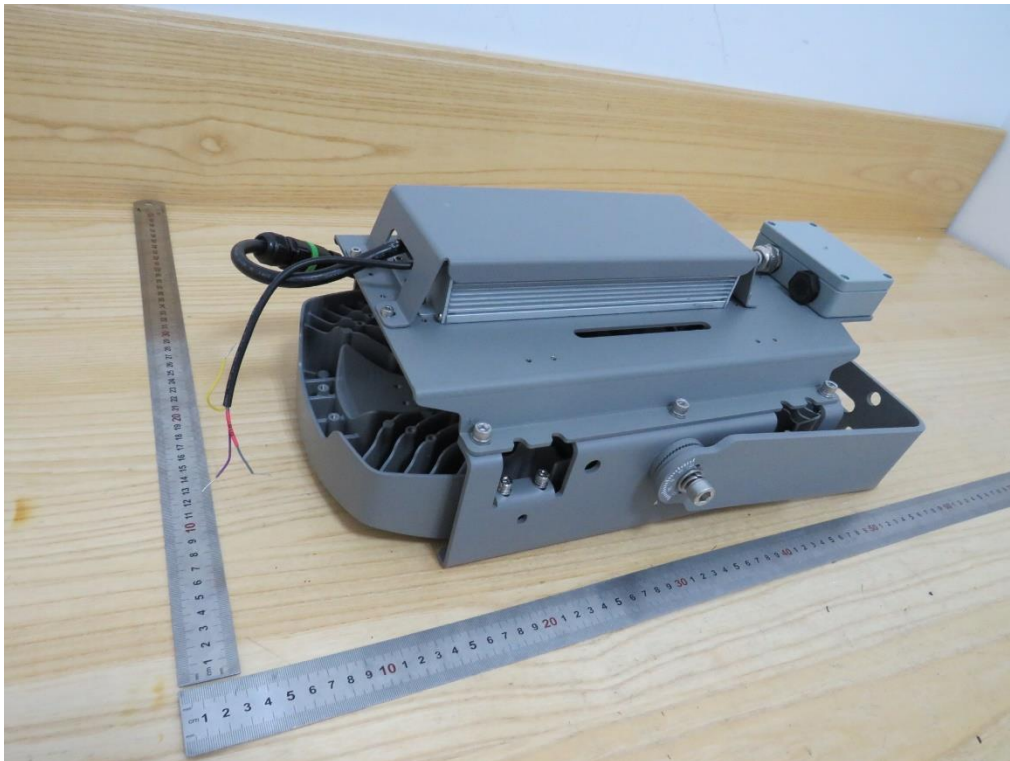
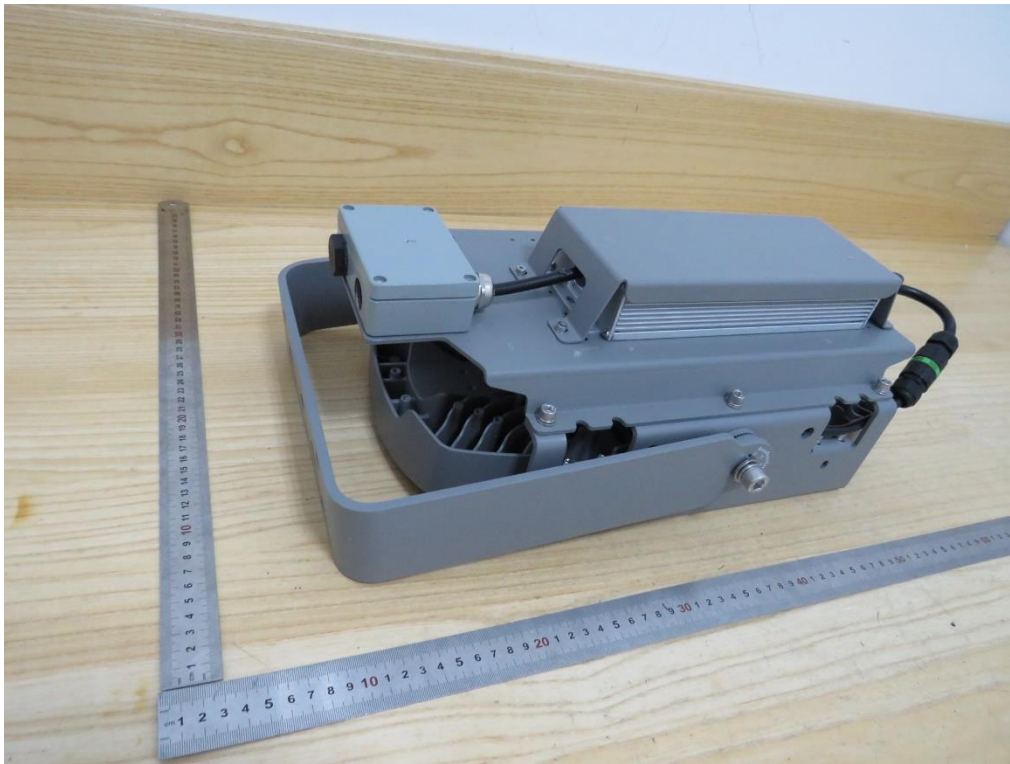
Radiated emissions below 1GHz



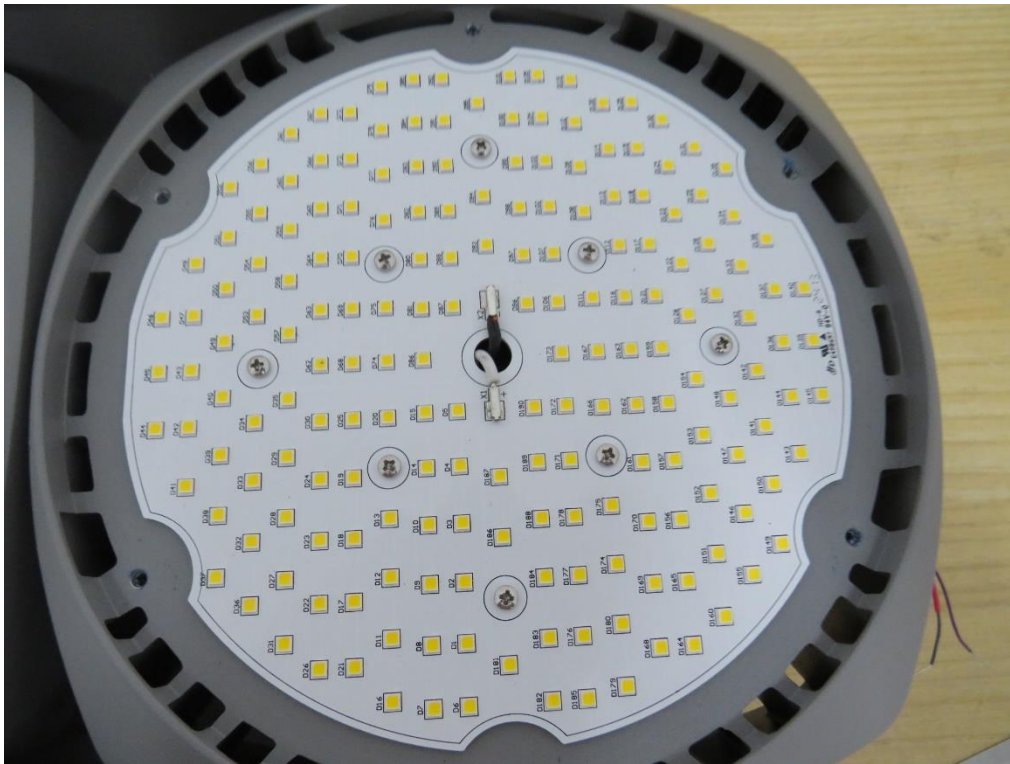
APPENDIX: PHOTOGRAPHS OF THE EUT

Model: CMF-300-100-277



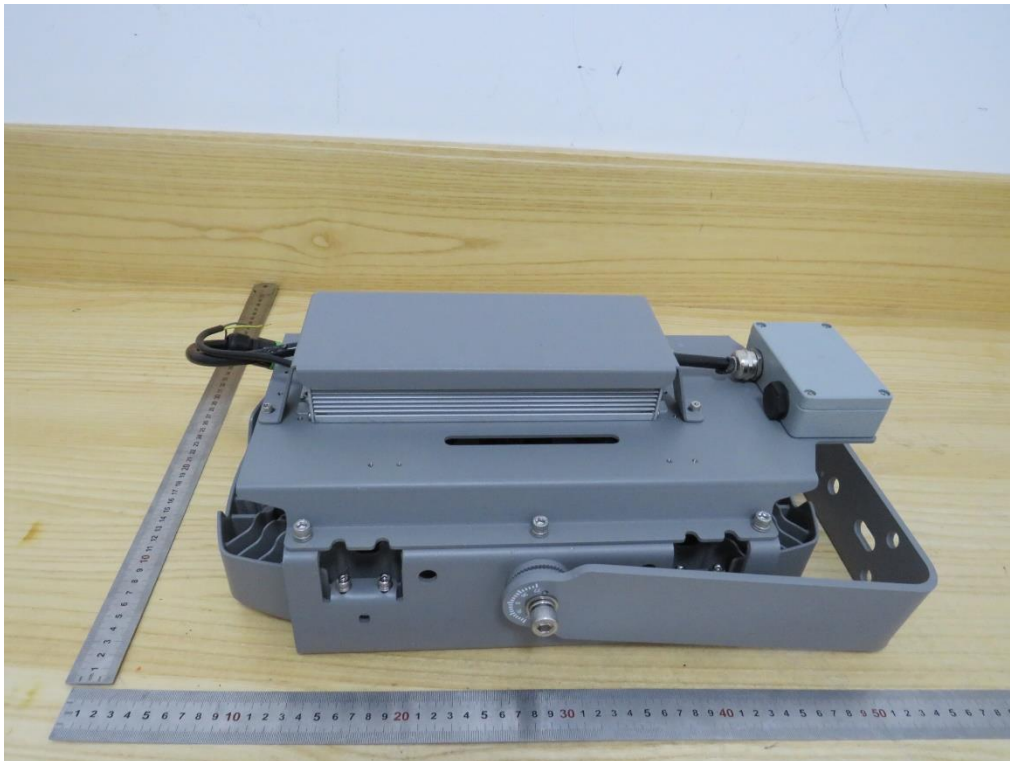
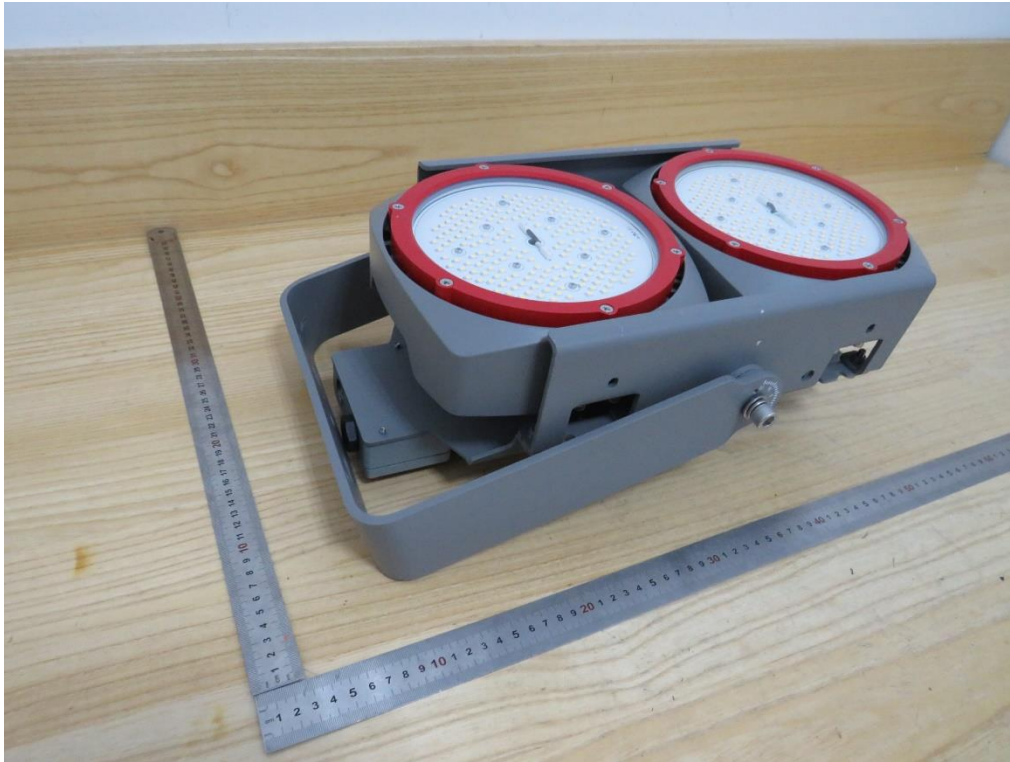


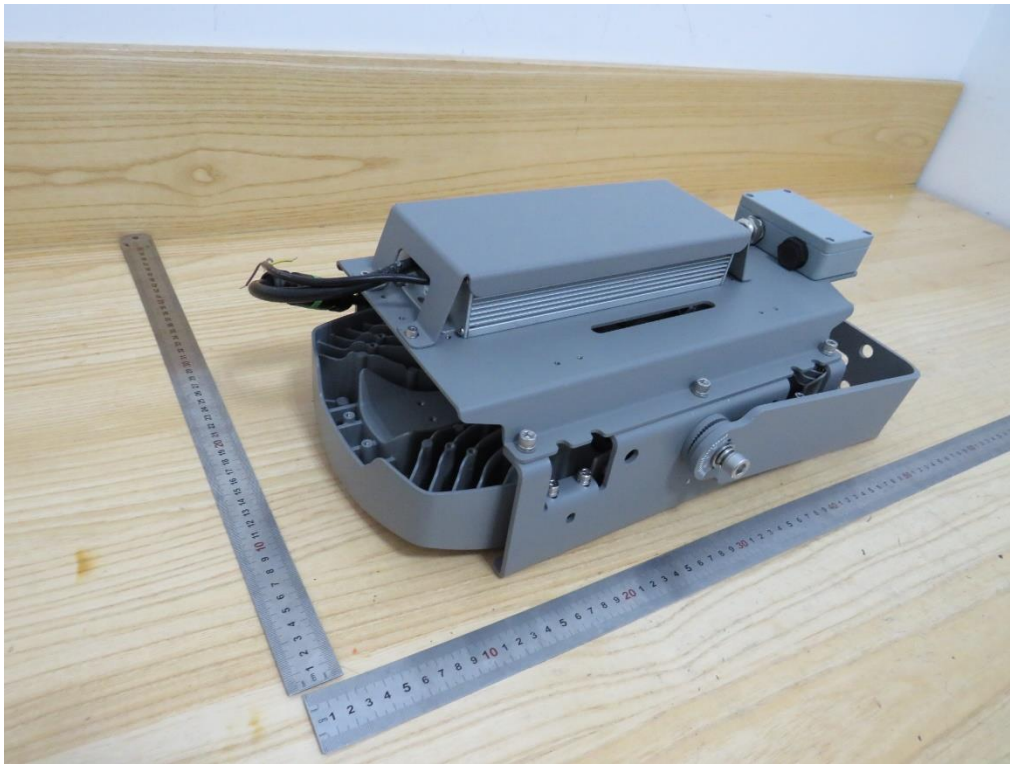


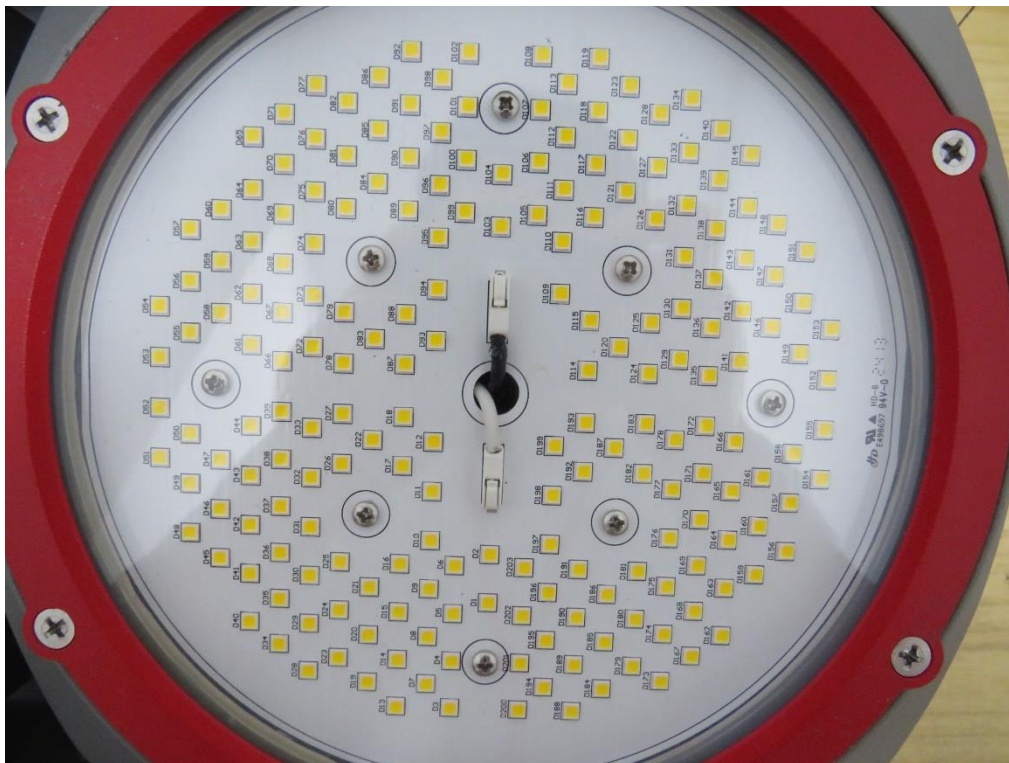


Model: CMF-300-347-480









END OF REPORT