EMC Test Report

Report No.:	DNT2408300260E1350-01947
Applicant Name:	Collection Design Tel Aviv
Address:	Hadkalim 8,4881000 KFAR KASEM,ISRAEL

The samples and sample information for the following tests are provided and confirmed by the applicant

Product Description:	LED light
Brand Name:	STYLISTIC
Tested Model:	Lamp M
Electrical Rating:	DC 5V
Received Date:	2024-09-03
Tested Date:	2024-09-03 ~ 2024-09-06
Issued Date:	2024-09-24
Test Standards:	AS/NZS CISPR 15:2017
Test Result:	Pass

Prepared By: Leo Lu **（Test Engineer）**

Reviewed By: mark wu **（Project Engineer）**

Approved By: Jesse Zhan **（Manager）**

Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V2.0	/	2024-09-24	Original Report	/

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information	
Applicant:	Collection Design Tel Aviv
Address of applicant:	Hadkalim 8,4881000 KFAR KASEM,ISRAEL
Manufacturer:	Nowgo International Co.,Ltd
Address of manufacturer:	1903, Building 2, Manjinghua Science and Technology Innovation Workshop, No.6 Songjiang Road, Shapu Community, Songgang Street, Baoan District, Shenzhen

General Description of EUT	
Product Name:	LED light
Model No.:	Lamp M
Additional Model(s):	/
Difference description:	/
Rated Voltage:	DC 5V

1.2 EUT Operation Mode and test details

Test Mode List		
Test Mode	Description	Remark
1	Normal working	N/A
2	Charging	N/A

Remark： Prescan all test mode, and performed the final measure on the mode of maximum emission and recorded the test data.
" * " means it's the worst mode.

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.3 Measurement Uncertainty

Parameter	Frequency	Measurement uncertainty
Conducted Emission (with AMN)	150kHz~30MHz	U= 2.7dB K=2
Radiated Emission	30MHz-1000MHz	U= 5.0dB K=2
Radiated Emission	Above 1000MHz	U= 5.4dB K=2

1.4 Test Facility

Test Site	Dongguan DN Testing Co., Ltd.
Test Location	No. 1, West Fourth Street, South Xinfa Road, Wusha Liwu, Chang 'an Town, Dongguan City, Guangdong P.R.China

1.5 Test Equipment List and Details

Test Equipment for Conducted Emission					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESCI3	101152	2023-10-31	2024-10-30
LISN	R&S	ENV216	102874	2023-10-31	2024-10-30
ISN	R&S	ENY81-CA6	0295	2023-10-31	2024-10-30
Test Equipment for Radiated Emission					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESR7	102497	2023-10-31	2024-10-30
RF Cable	ETS-LINDGREN	RFC-NMS-100-NMS-350-IN	/	2023-10-31	2024-10-30
Log periodic antenna	ETS-LINDGREN	VULB 9168	01475	2023-10-31	2024-10-30
Horn Antenna	ETS-LINDGREN	3117	00252566	2023-10-31	2024-10-30
Preamplifier	Schwarzbeck	BBV9743B	00423	2023-10-31	2024-10-30
Preamplifier	ETS-LINDGREN	3117-PA	00252566	2023-10-31	2024-10-30
Preamplifier	ETS-LINDGREN	3116C-PA	00251779	2023-10-31	2024-10-30

2. SUMMARY OF TEST RESULTS

Emissions		
Test Standards	**Description of Test Item**	**Result**
AS/NZS CISPR 15:2017	Conducted Emissions	PASS
	Radiated Emissions	PASS

*Note1: N/A means not applicable.

3. GENERAL REMARKS

When applying the basic standard in this test report, the latest amendment is always included.

3.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test Result

3.2 Result Level & Over Limit Calculation

The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including LISN Factor and the Cable Factor etc.), The basic equation is as follows:

Measurement = Reading Level + Correct Factor(including LISN Factor ,Cable Factor etc.)

The “Over Limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a “Over Limit” of -6dB means the emission is 6dB below the maximum limit for device. The equation for “over limit” calculation is as follows:

Over Limit = Measurement(Result Level) –Limit

4. Conducted Emissions

4.1 Conducted Emission Limit

Disturbance voltage limit at the electric power supply interface

Frequency Range(MHz)	Quasi Peak(dBμV)	Average(dBμV)
0.009-0.05	110	-
0.05-0.15	90-80	-
0.15-0.5	66-56	56-46
0.5-5	56	46
5-30	60	50

Note1 The lower limit shall apply at the transition frequencies.

Note2 The limit decreases linearly with the logarithm of the frequency in the ranges 50 kHz to 150 kHz and 150 kHz to 0,5 MHz.

Note3 For lighting equipment incorporating exclusively electrodeless lamps, the limit in the frequency range of 2,2 MHz to 3,0 MHz is 73 dB(μV) quasi-peak and 63 dB(μV) average.

Disturbance voltage limit at wired network interfaces other than power supply

Frequency Range(MHz)	Quasi Peak(dBμV)	Average(dBμV)
0.15-0.5	84-74	74-64
0.5-30	74	64

Note1 The lower limit shall apply at the transition frequencies.

Note2 The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

Note3 The disturbance voltage limits are derived for use with an artificial asymmetrical network (AAN) which presents a common mode (asymmetric mode) impedance of 150 Ω to the measured interface.

Disturbance voltage limit at wired network interfaces other than power supply

Frequency Range(MHz)	Quasi Peak(dBμA)	Average(dBμA)
0.15-0.5	40-30	30-20
0.5-30	30	20

Note1 The lower limit shall apply at the transition frequencies.

Note2 The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

Note3 The disturbance current limits are derived for use of a common mode (asymmetric mode) impedance of 150 Ω. Hence the conversion factor applied is 20 log(150) = 44 dBΩ.

Electrical power supply interface of non-restricted ELV lamps

Frequency Range(MHz)	Quasi Peak(dBμV)	Average(dBμV)
0.009-0.05	136	-
0.05-0.15	116-106	-
0.15-0.5	92-82	82-72
0.5-5	82	72
5-30	86	76

Note1 The lower limit shall apply at the transition frequencies.

Note2 The limit decreases linearly with the logarithm of the frequency in the ranges 50 kHz to 150 kHz and 150 kHz to 0,5 MHz.

Note3 The limits in this table apply if no 26 dB attenuator is applied.

Local wired ports other than electrical power supply interface of ELV lamp

Frequency Range(MHz)	Quasi Peak(dBμV)	Average(dBμV)
0.15-0.5	80	70
0.5-30	74	64

Note1 The lower limit shall apply at the transition frequencies.

Local wired ports other than electrical power supply interface of ELV lamp

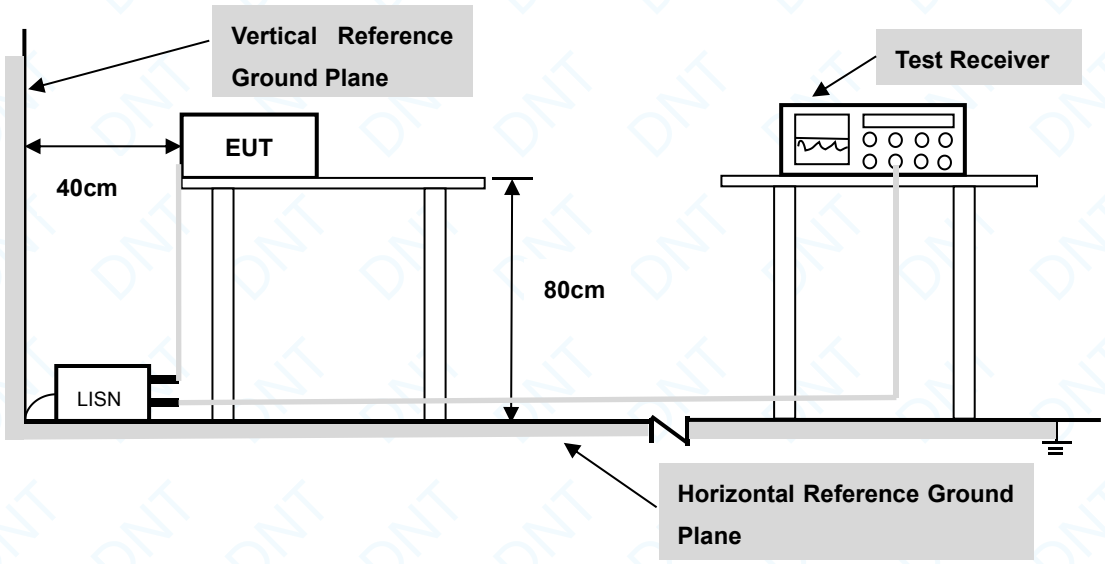
Frequency Range(MHz)	Quasi Peak(dBμA)	Average(dBμA)
0.15-0.5	40-30	30-20
0.5-30	30	20

Note1 The lower limit shall apply at the transition frequencies.

Note2 The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

Note3 The current disturbance limits are derived for use of a common mode (asymmetric mode) impedance of 150 Ω, and the conversion factor applied is 20 log(150) = 44 dBΩ.

4.2 Block Diagram of Test Setup



4.3 Test Procedure

During the conducted emissions test, the adapter was connected to the main outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

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

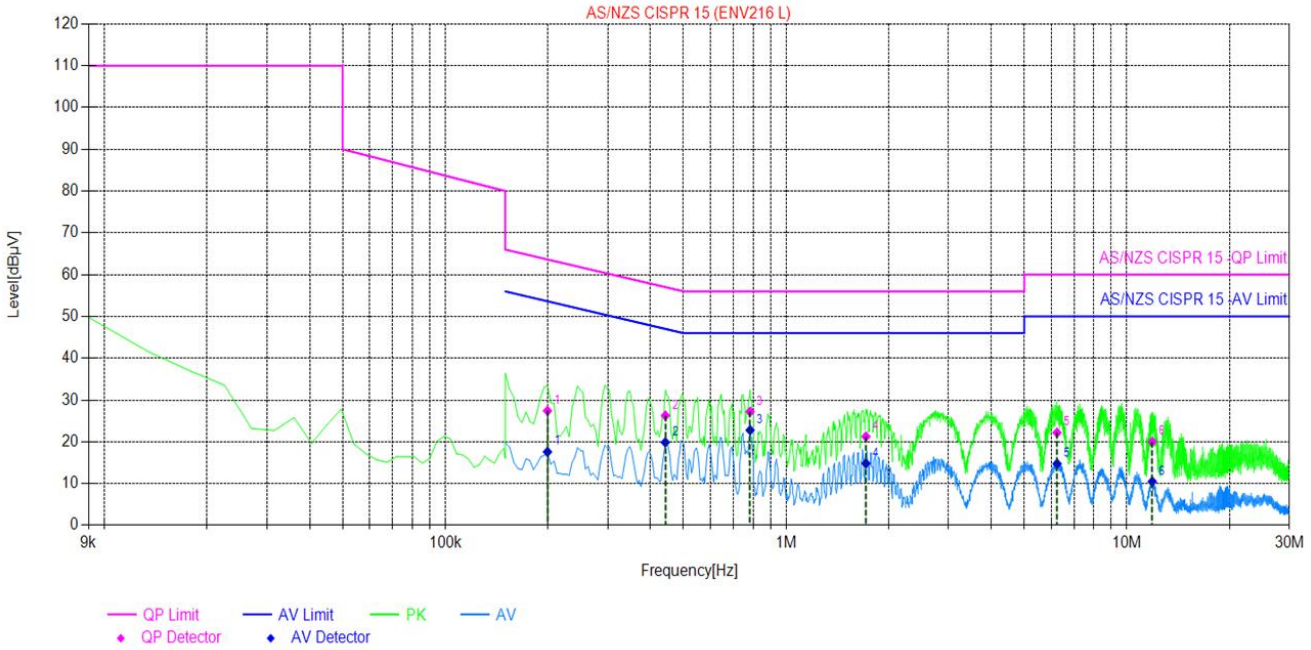
All data was recorded in the Quasi-peak and average detection mode.

4.4 Environmental Conditions

Temperature:	25℃
Relative Humidity:	60%
Atmospheric Pressure:	101.3 KPa
Test Voltage:	DC 5V from adapter by AC 230V/50Hz
Test Date:	2024-09-09
Tested By:	Eric Huang

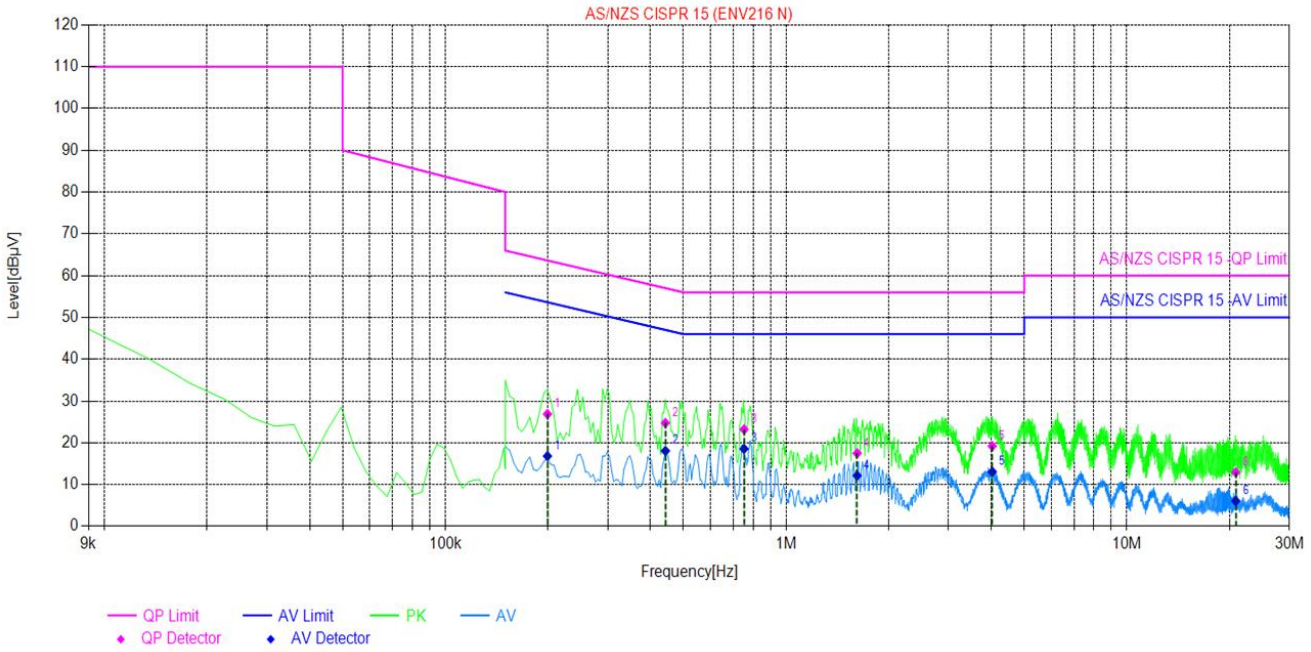
4.5 Test Data and Result

L:



Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1995	9.93	27.42	63.63	36.21	17.59	53.63	36.04	PASS
2	0.4425	9.82	26.27	57.01	30.74	19.87	47.01	27.14	PASS
3	0.7845	9.75	27.20	56.00	28.80	22.78	46.00	23.22	PASS
4	1.7160	9.73	21.25	56.00	34.75	14.82	46.00	31.18	PASS
5	6.2430	9.84	22.19	60.00	37.81	14.76	50.00	35.24	PASS
6	11.8770	9.90	20.00	60.00	40.00	10.49	50.00	39.51	PASS

N:



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1995	9.86	26.88	63.63	36.75	16.81	53.63	36.82	PASS
2	0.4425	9.81	24.74	57.01	32.27	18.07	47.01	28.94	PASS
3	0.7530	9.83	23.21	56.00	32.79	18.55	46.00	27.45	PASS
4	1.6170	9.74	17.49	56.00	38.51	12.15	46.00	33.85	PASS
5	4.0290	9.96	19.21	56.00	36.79	13.06	46.00	32.94	PASS
6	20.8815	10.08	12.93	60.00	47.07	6.09	50.00	43.91	PASS

5. Radiated Emissions

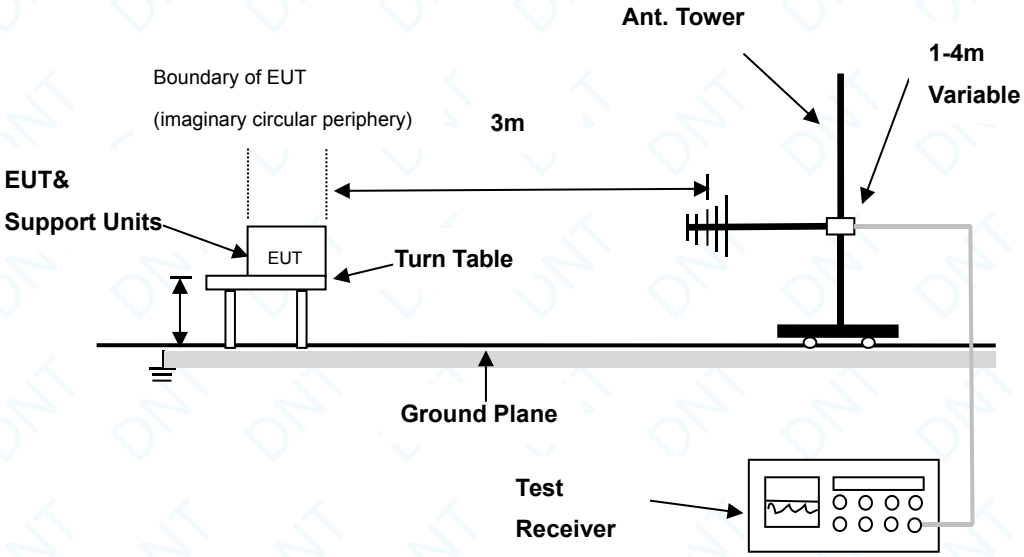
5.1 Radiated Emission Limit

Requirements for radiated emissions at frequencies up to 1GHz .

Frequency range (MHz)	Measurement		Limits dB(μV/m)
	Distance (m)	Detector type/bandwidth	
30 ~ 230	3	Quasi Peak/120kHz	40
230 ~ 1000			47

5.2 Block Diagram of Test Setup

Radiated Emissions Frequency:30MHz to 1000MHz:



5.3 Test Procedure

(1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual.

(2) Support equipment, if needed, was placed as per EN 55015.All I/O cables were positioned to simulate typical actual usage as per EN 55015

(3) The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

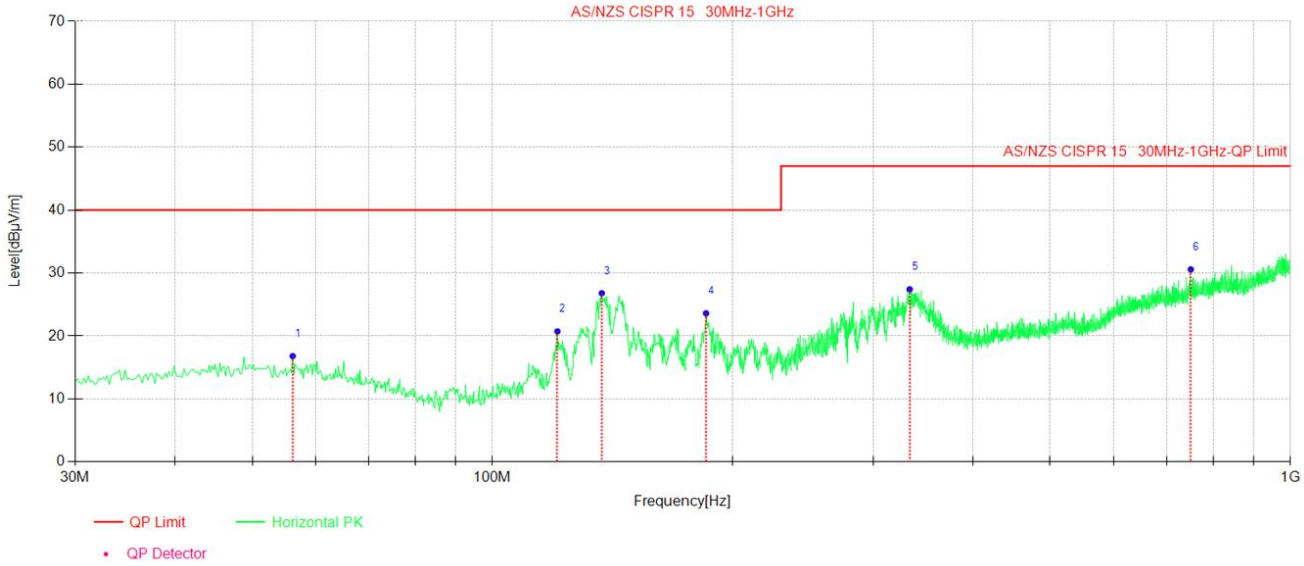
(4) Recorded at least the six highest emissions.

5.4 Environmental Conditions

Temperature:	25℃
Relative Humidity:	60%
Atmospheric Pressure:	101.3 KPa
Test Voltage:	DC 5V from adapter by AC 230V/50Hz
Test Date:	2024-09-04
Tested By:	Leo Lu

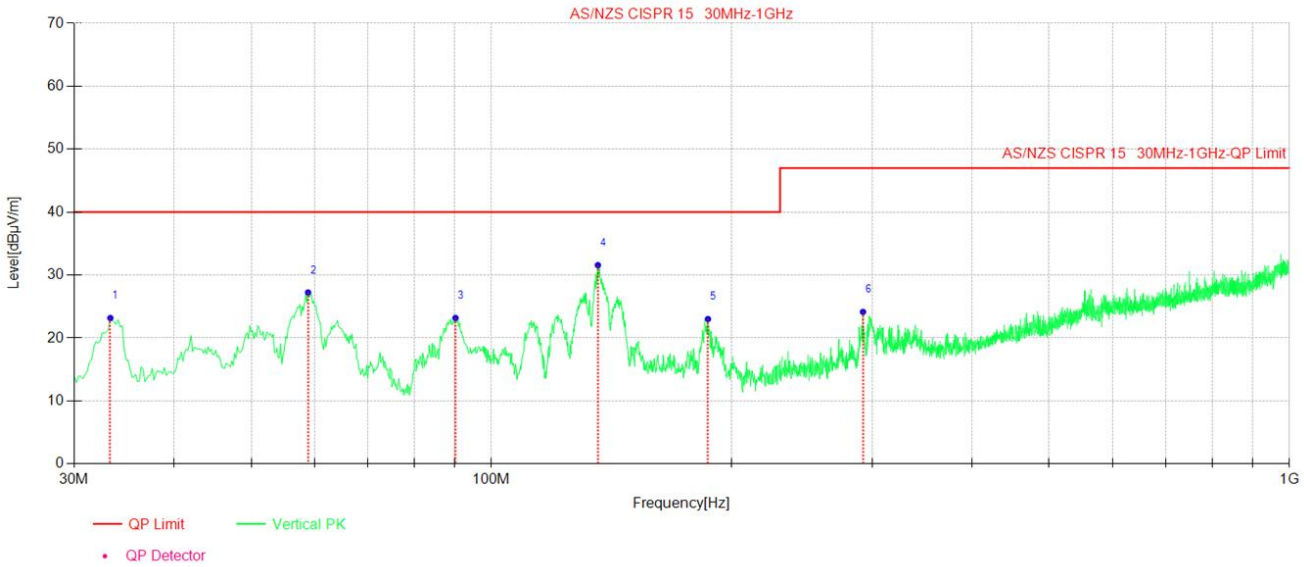
5.5 Test Data and Result

Horizontal:



Suspected Data List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor[dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Trace	Polarity	Verdict
1	56.195	16.81	-8.37	40.00	23.19	100	158	PK	Horizontal	PASS
2	120.61	20.74	-10.22	40.00	19.26	100	359	PK	Horizontal	PASS
3	137.10	26.81	-8.76	40.00	13.19	100	2	PK	Horizontal	PASS
4	185.23	23.61	-10.00	40.00	16.39	100	255	PK	Horizontal	PASS
5	333.28	27.43	-5.94	47.00	19.57	100	36	PK	Horizontal	PASS
6	750.07	30.59	3.41	47.00	16.41	100	332	PK	Horizontal	PASS

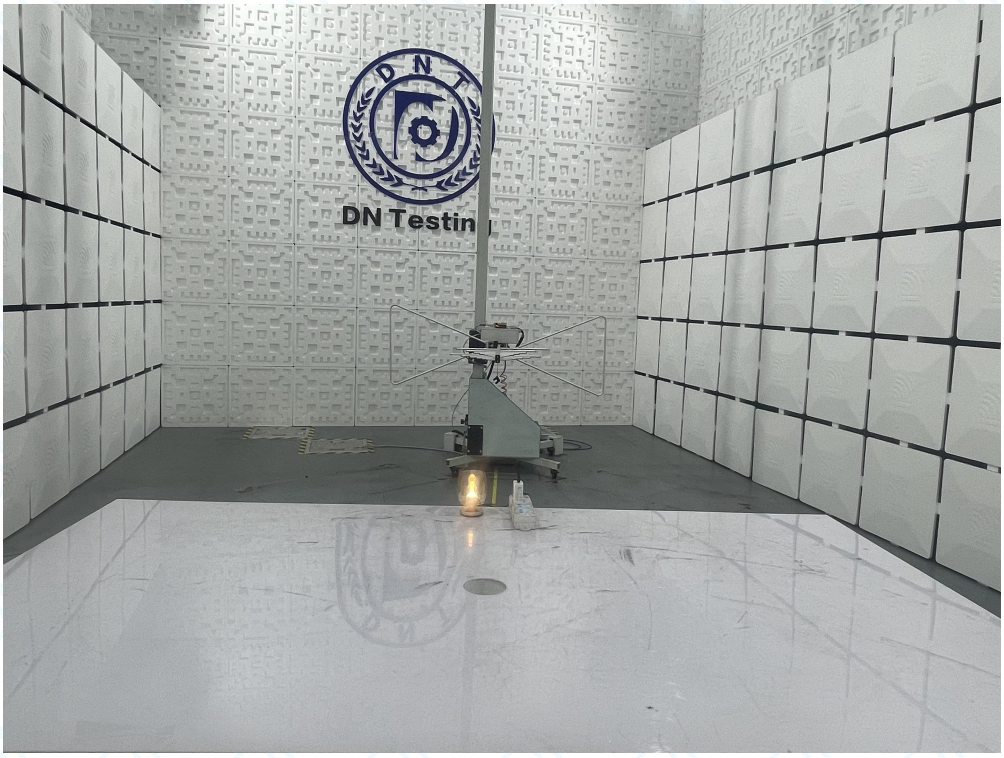
Vertical:



Suspected Data List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor[dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Trace	Polarity	Verdict
1	33.298	23.18	-9.53	40.00	16.82	100	226	PK	Vertical	PASS
2	58.911	27.24	-8.65	40.00	12.76	100	101	PK	Vertical	PASS
3	90.152	23.19	-13.84	40.00	16.81	100	336	PK	Vertical	PASS
4	135.94	31.58	-8.87	40.00	8.42	100	360	PK	Vertical	PASS
5	186.78	23.02	-10.18	40.00	16.98	100	125	PK	Vertical	PASS
6	292.14	24.15	-7.20	47.00	22.85	100	117	PK	Vertical	PASS

6. EXHIBIT A – PHOTOGRAPHS OF TEST SETUP

Radiated Emission Test View



Conducted Emission Test View

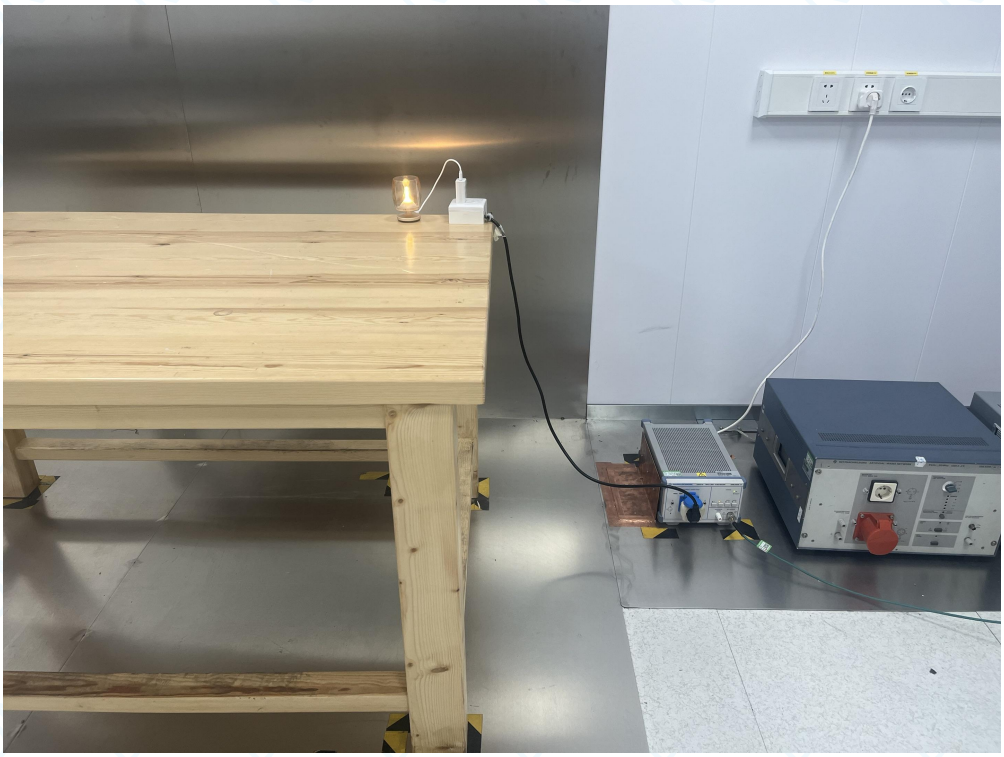
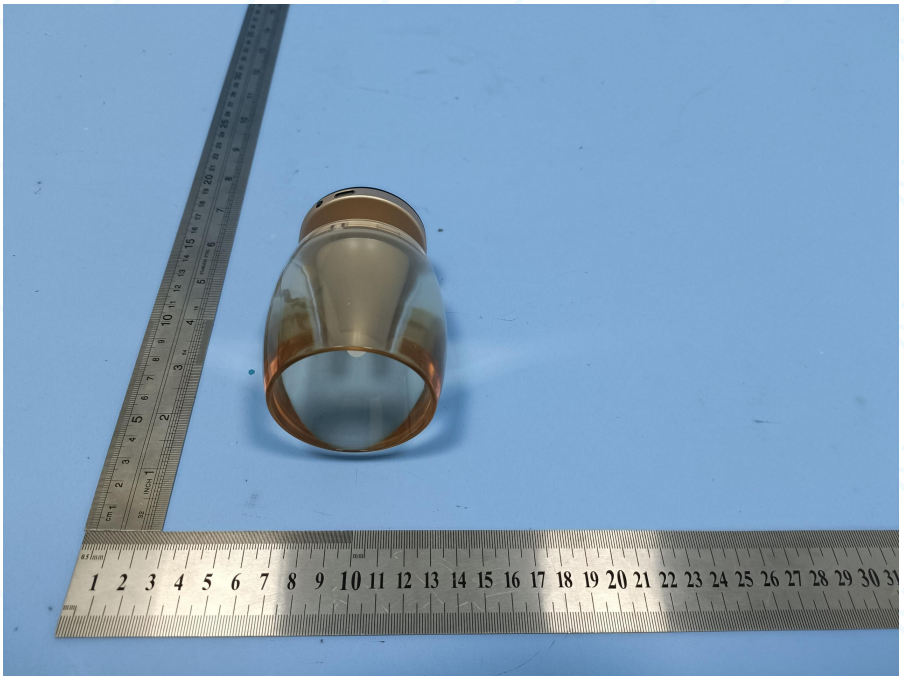
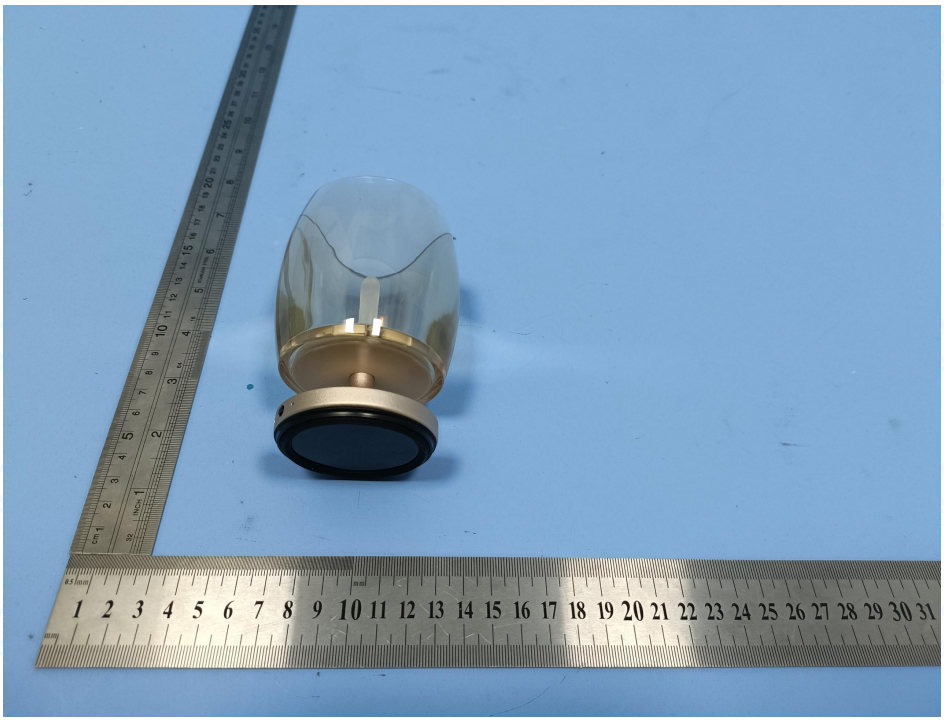
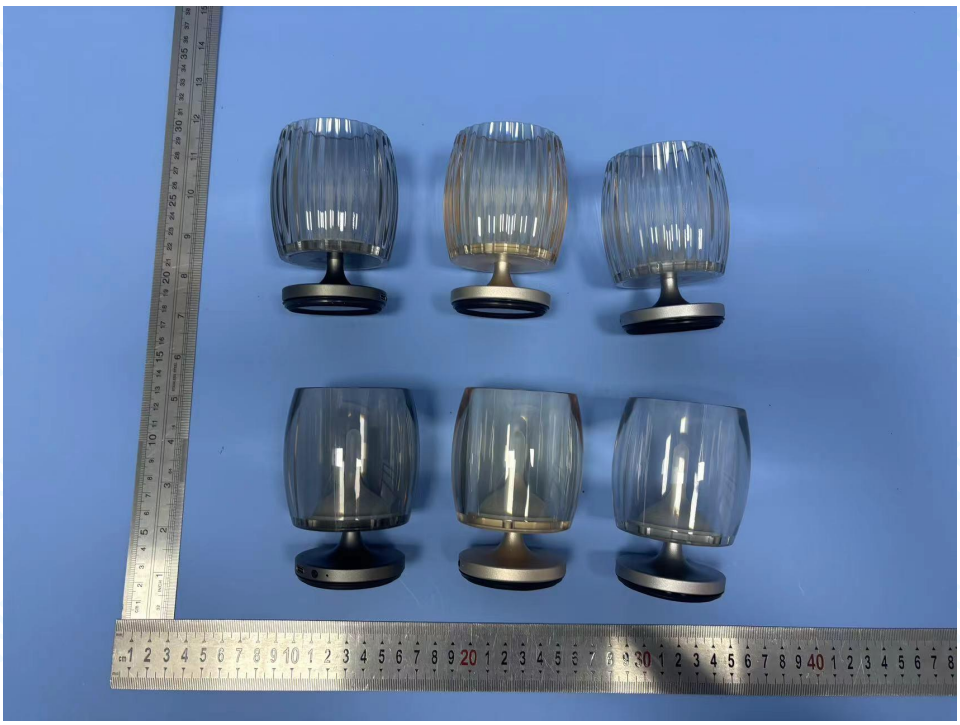


EXHIBIT B – PHOTOGRAPHS OF EUT







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