

# Test Report

FCC ID: 2ARX2-V1

Date of issue: Nov. 30, 2018

Report Number: MTi181127E144

Sample Description: LED Dimmer

Model(s): V1, V2, V3

Applicant: Guangzhou Skydance Co., Ltd.

Address: 56, Huancundong Road, Zhongcun Street, Panyu District, Guangzhou, China

Date of Test: Nov. 19, 2018 to Nov. 30, 2018

Shenzhen Microtest Co., Ltd.  
<http://www.mtitest.com>

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## Test Result Certification

Applicant's name: Guangzhou Skydance Co., Ltd.  
Address: 56, Huancundong Road, Zhongcun Street, Panyu District, Guangzhou, China

Manufacturer's Name: Guangzhou Skydance Co., Ltd.  
Address: 56, Huancundong Road, Zhongcun Street, Panyu District, Guangzhou, China

Product name: LED Dimmer

Trademark: N/A

Model name: V1, V2, V3

Standards: FCC Part 15.249

Test Procedure: ANSI C63.10-2013

*This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) complies with the FCC requirements. And it is applicable only to the tested sample identified in the report.*

Tested by:

*Jack Le*

Jack Le

Nov. 30, 2018

Reviewed by:

*Blue.Zheng*

Blue Zheng

Nov. 30, 2018

Approved by:

*Smith Chen*

Smith Chen

Nov. 30, 2018

## 1 General description

### 1.1 Feature of equipment under test (EUT)

Equipment:	LED Dimmer
Trade Name:	N/A
Model Name:	V1
Serial Model:	V2, V3
Model Difference:	All the model are the same circuit and RF module, except the appearance and color.
Operation Frequency:	2478MHz
Modulation Type:	GFSK
Antenna Type:	Metal antenna
Antenna Gain:	2.5dBi
Max. Field Strength:	78.54dBuV/m
Power Source:	DC 36V from AC adapter
Battery:	N/A
Hardware Version:	A3
Software Version:	V1-1.1

### 1.2 Operation channel list

Channel	Frequency(MHz)
1	2478

### 1.3 Test Frequency Channel

Channel	Frequency(MHz)
1	2478

### 1.4 EUT operation mode

During testing, RF test program provided by the manufacturer to control the Tx operation followed the test requirement.

### 1.5 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
Adapter	HW-059200CHQ	/	HUAWEI
/	/	/	/
/	/	/	/

## 2 Summary of Test Result

Test procedures according to the technical standards:

Item	FCC Part No.	Description of Test	Result
1	FCC Part15.203	Antenna Requirement	Pass
2	FCC Part15.207	AC power line conducted emission	Pass
3	FCC Part15.249(a)	Field strength of fundamental and harmonic emissions	Pass
4	FCC Part 15.215	20dB and 99% Bandwidth	Pass
5	FCC Part15.249(d)	Radiated spurious emission	Pass

### 3 Test Facilities and Accreditations

#### 3.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd
Location	No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China
FCC Registration No.	448573

#### 3.2 Environmental conditions

Temperature:	20°C~30°C
Humidity	30%~70%
Atmospheric pressure	98kPa~101kPa

#### 3.3 Measurement uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %

RF frequency	1 x 10-7
RF power, conducted	± 1 dB
Conducted emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	± 5 %

#### 3.4 Test software

Software Name	Manufacturer	Model	Version
RF Test System	Farad	LZ-RF	Lz_Rf 3A3

## 4 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E001	Spectrum Analyzer	Agilent	E4407B	MY41441082	2018/09/18	2019/09/17
MTI-E002	CMU 200 universal radio communication tester	Rohde&schwarz	CMU 200	114587	2018/09/18	2019/09/17
MTI-E004	EMI Test Receiver	Rohde&schwarz	ESPI	1000314	2018/09/18	2019/09/17
MTI-E006	Broadband antenna	schwarabeck	VULB9163	872	2018/09/18	2019/09/17
MTI-E007	Horn antenna	schwarabeck	BBHA9120D	1201	2018/09/18	2019/09/17
MTI-E014	amplifier	America	8447D	3113A06150	2018/09/18	2019/09/17
MTI-E015	Conduction Immunity Signal Generator	Schloder	CDG6000	126A1343/2015	2018/09/18	2019/09/17
MTI-E016	Coupled decoupling network	Schloder	CDA M2/M3	A2210332/2015	2018/09/18	2019/09/17
MTI-E032	Comprehensive test instrument	Rohde&schwarz	CMW500	124192	2018/09/18	2019/09/17
MTI-E034	amplifier	Agilent	8449B	3008A02400	2018/09/18	2019/09/17
MTI-E040	Spectrum analyzer	Agilent	N9020A	MY49100060	2018/09/18	2019/09/17
MTI-E041	Signal generator	Agilent	N5182A	MY49060455	2018/09/18	2019/09/17
MTI-E042	Analog signal generator	Agilent	E4421B	GB40051240	2018/09/18	2019/09/17
MTI-E043	Power probe	Dare Instruments	RPR3006W	16I00054SN016	2018/09/18	2019/09/17
MTI-E047	10dB attenuator	Mini-Circuits	UNAT-10+	15542	2018/09/18	2019/09/17
MTI-E049	spectrum analyzer	Rohde&schwarz	FSP-38	100019	2018/09/18	2019/09/17
MTI-E050	PSG Signal generator	Agilent	E8257D	MY46520873	2018/09/18	2019/09/17
MTI-E051	Active Loop Antenna 9kHz - 30MHz	Schwarzbeek	FMZB 1519 B	00044	2018/09/18	2019/09/17
MTI-E052	18-40GHz amplifier	Chengdu step Micro Technology	ZLNA-18-40G-21	1608001	2018/09/18	2019/09/17
MTI-E053	15-40G Antenna	Schwarzbeek	BBHA9170	BBHA9170582	2018/09/18	2019/09/17

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

## 5 Test Result

### 5.1 Antenna requirement

#### 5.1.1 Standard requirement

FCC PART 15.203 and 15.247(b);

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

#### 5.1.2 EUT Antenna

The antenna is an Metal antenna, which was permanently affixed to the device and un-replaced, complies with 15.203. In addition, the maximum antenna gain is 2.5dBi.

## 5.2 AC power line conducted emission

### 5.2.1 Limits

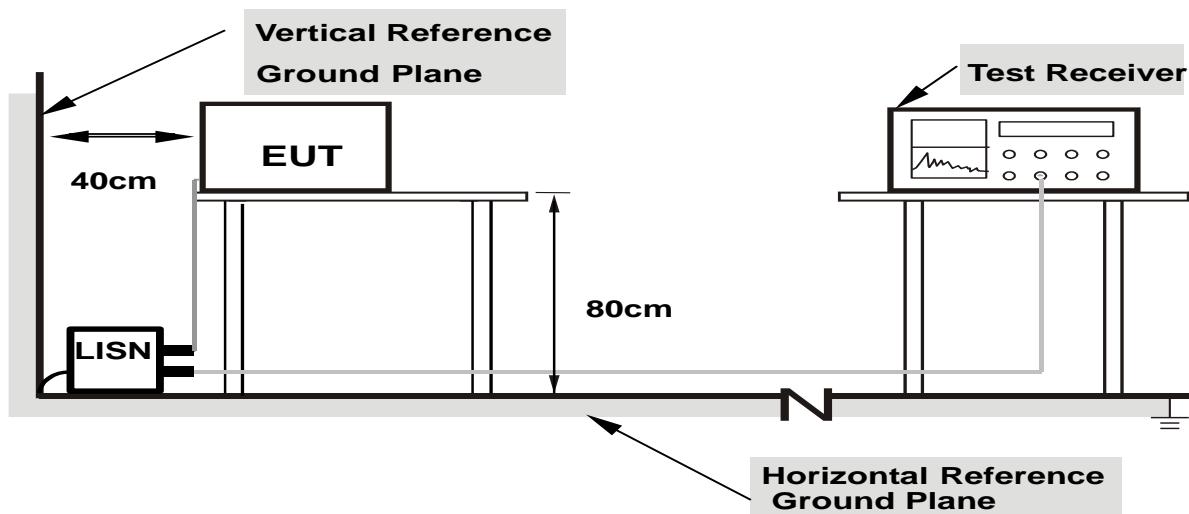
FCC §15.207;

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

Frequency (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 <sup>note2</sup>	56 - 46 <sup>note2</sup>
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

*Note1: The tighter limit applies at the band edges.*  
*Note2: The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.*

### 5.2.2 Test setup



**Note: 1. Support units were connected to second LISN.**

**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes**

### 5.2.3 Test procedure

#### a. EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

#### b. The following table is the setting of the receiver

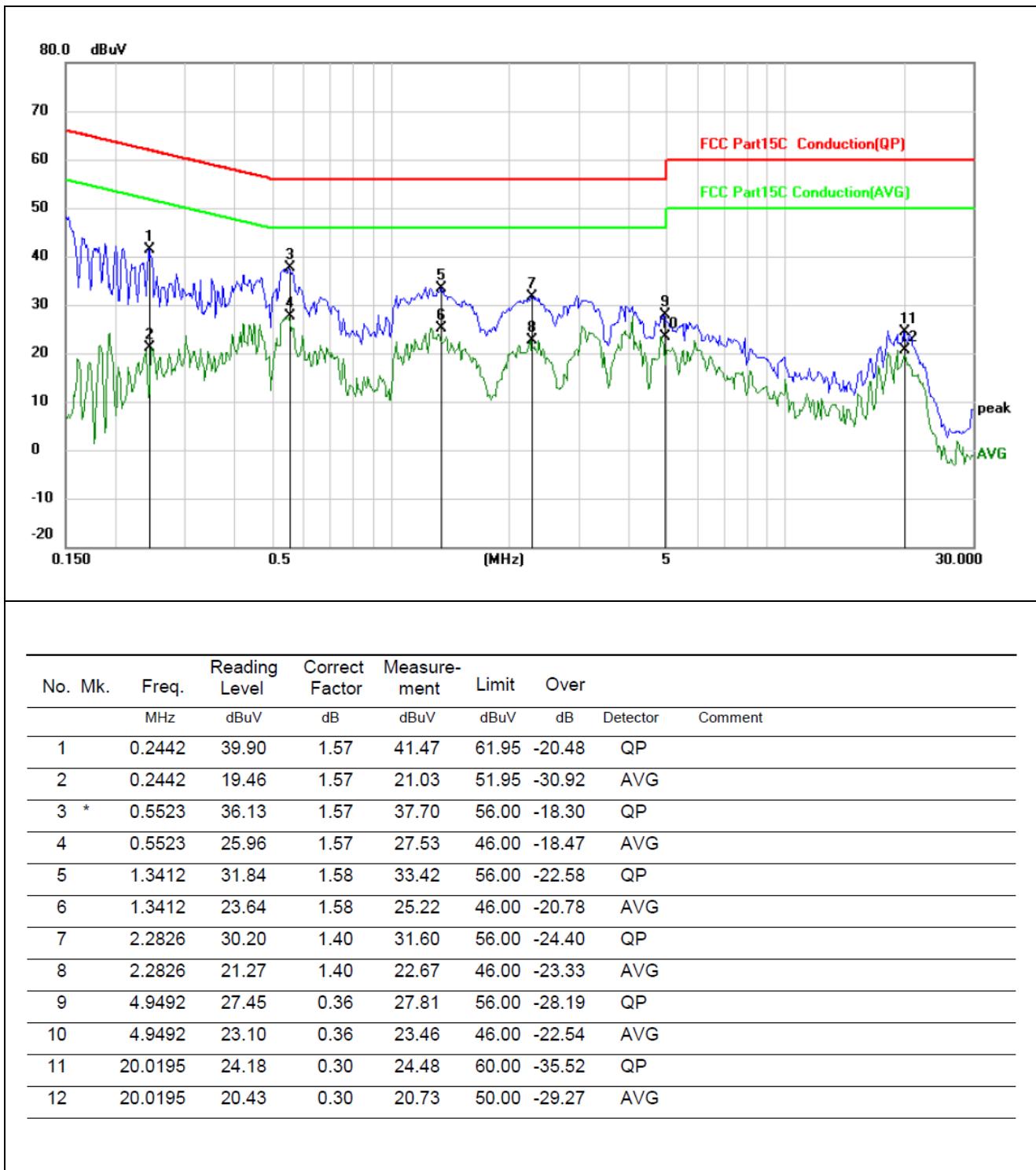
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- c. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- d. 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.
- e. 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.
- f. LISN at least 80 cm from nearest part of EUT chassis.

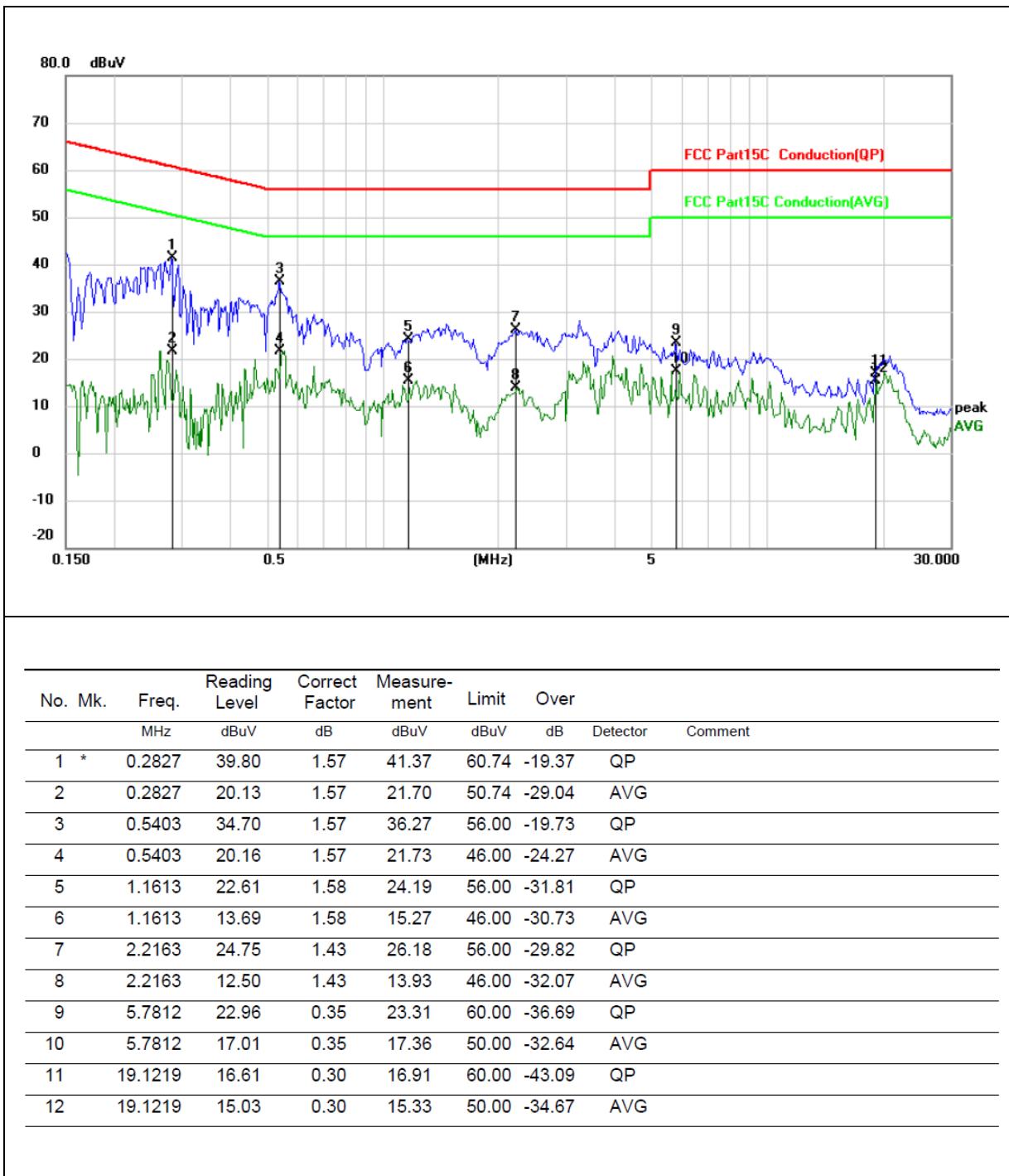
For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 5.2.4 Test results

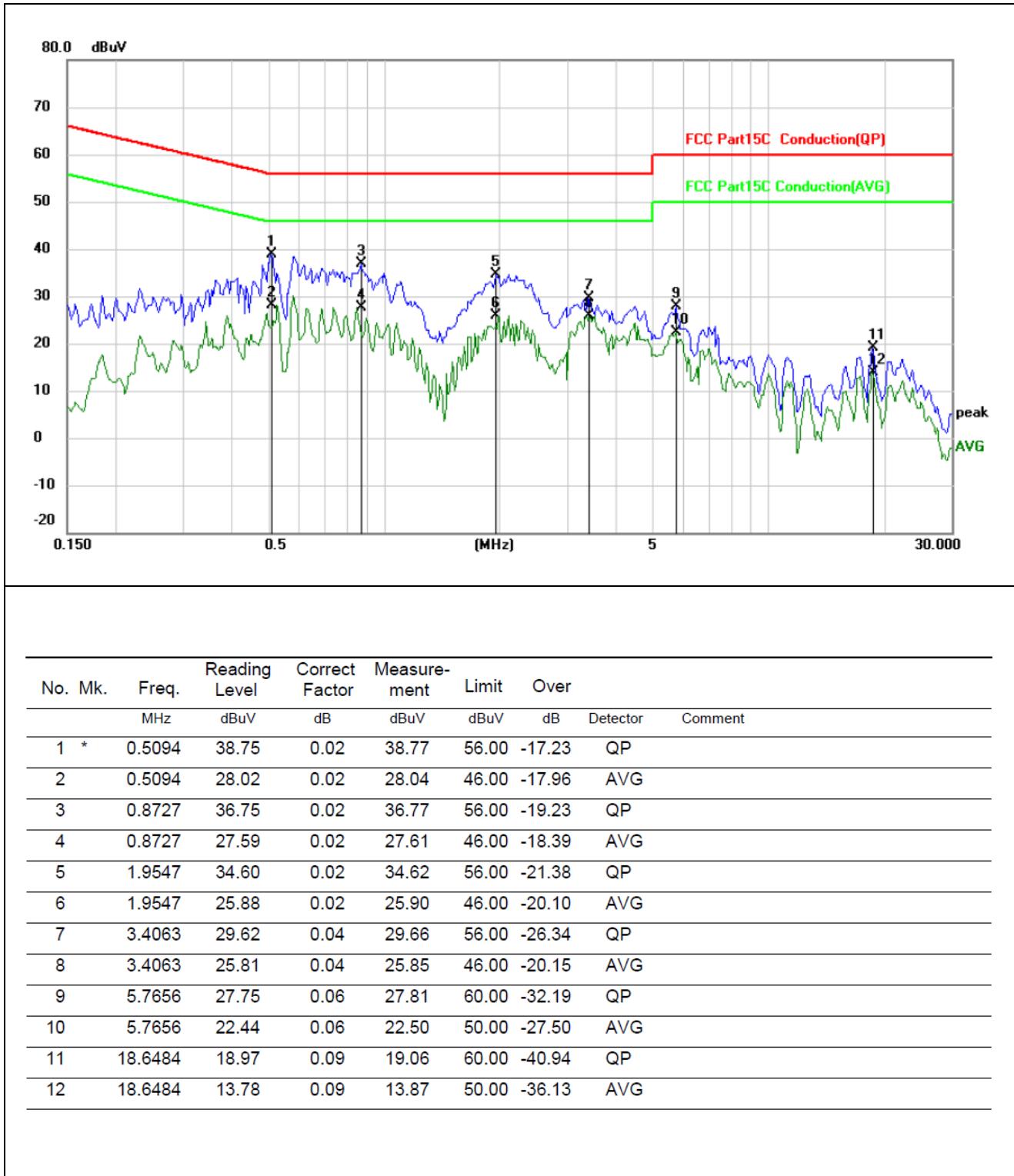
EUT:	LED Dimmer	Model Name. :	V1
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 36V from AC adapter 120V/60Hz	Test Mode:	Normal link



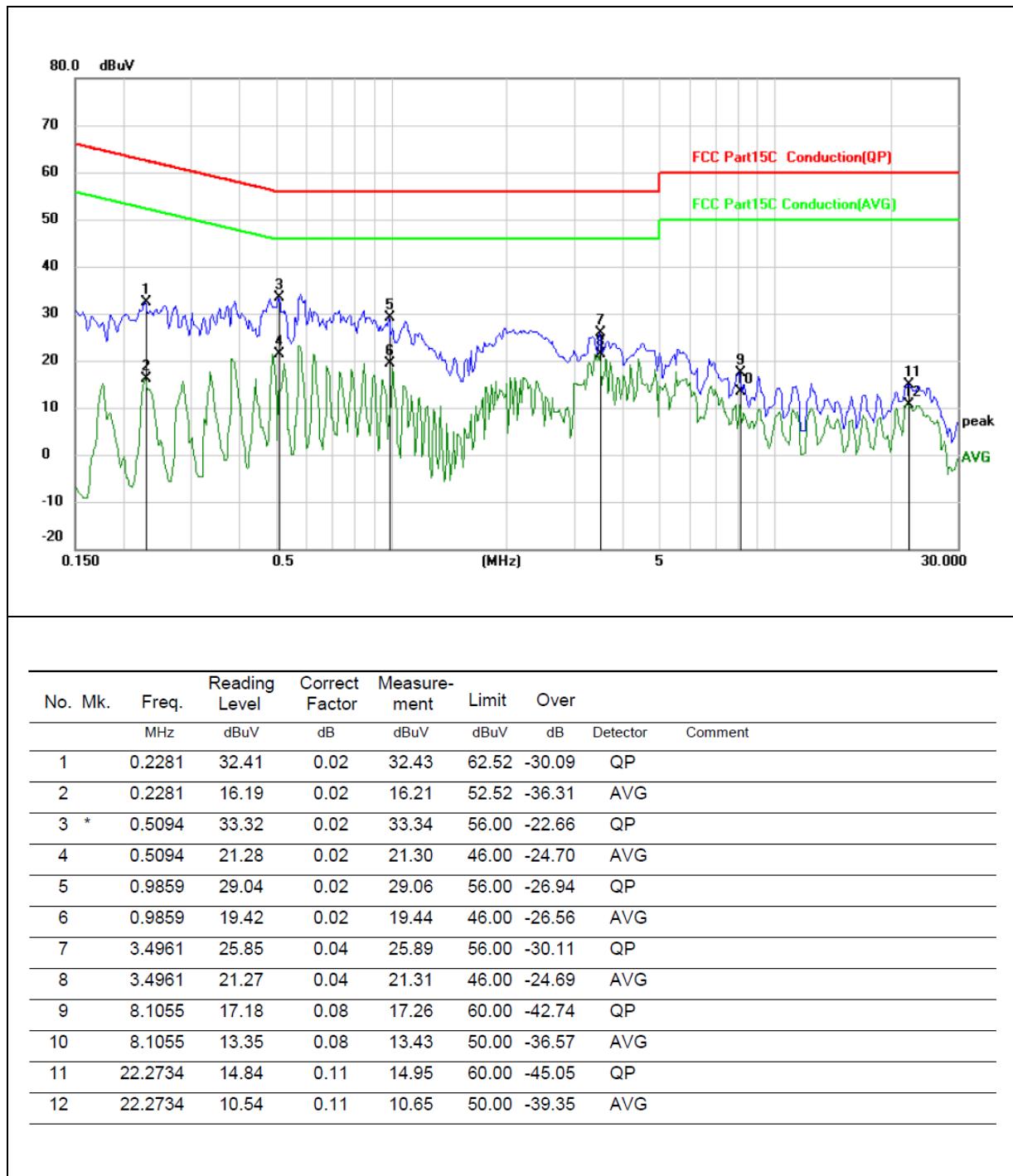
EUT:	LED Dimmer	Model Name. :	V1
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 36V from AC adapter 120V/60Hz	Test Mode:	Normal link



EUT:	LED Dimmer	Model Name. :	V1
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 36V from AC adapter 240V/60Hz	Test Mode:	Normal link



EUT:	LED Dimmer	Model Name. :	V1
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 36V from AC adapter 240V/60Hz	Test Mode:	Normal link



## 5.3 Field strength of fundamental and harmonic emissions

### 5.3.1 Limits

FCC §15.249(a);

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector

Frequency	Field Strength(dBuv/m)	Detector
Fundamental	114	PK
Fundamental	94	AV
Harmonic emissions	74	PK
Harmonic emissions	54	AV

### 5.3.2 Test Method

1. The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.

2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.

3. Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured, RBW = 1 MHz for  $f \geq 1\text{GHz}$ , 100 kHz for  $f < 1\text{ GHz}$ , VBW  $\geq$  RBW, Sweep = auto, Detector function = peak, Trace = max hold

4. Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

5. The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.

### 5.3.3 Test Result

Transmitter channel: 2478MHz

Frequency (MHz)	Ant. Polarization	Emission level dB $\mu$ V/m	Limits dB $\mu$ V/m	Margin (dB)	Detector	Result
2478	V	78.54	114	35.46	PK	
2478	H	76.13	114	37.87	PK	
2478	V	64.25	94	29.75	AV	
2478	H	61.07	94	32.93	AV	
4956	V	40.59	74	33.41	PK	
4956	H	42.71	74	31.29	PK	

Note: If the PK measured values lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.

## 5.4 20dB and 99% bandwidth

### 5.4.1 Limits

#### FCC §15.215(c)

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

### 5.4.2 Test method

Use the following spectrum analyzer settings:

#### For 20 dB bandwidth

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel  
RBW  $\geq$  1% of the 20 dB bandwidth

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

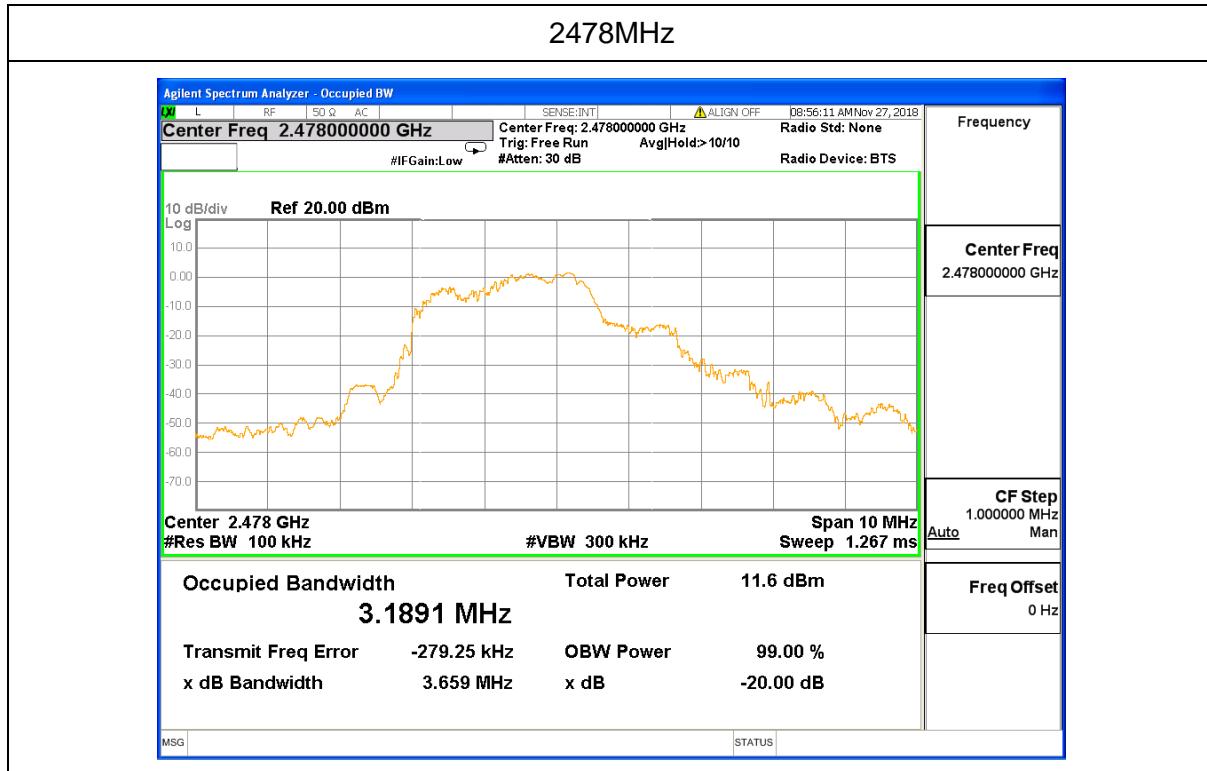
Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth and 99% occupied bandwidth of the emission

### 5.4.3 Test result

Frequency (MHz)	20dB bandwidth (MHz)
2478	3.659

#### Test plots



## 5.5 Radiated spurious emission

### 5.5.1 Limit

FCC PART 15.249(a);

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics ( $\mu$ V/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ( $\mu$ V/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

### 5.5.2 Test method

- a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.
- b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- c) Use the following spectrum analyzer settings:
  - 1) Span = wide enough to fully capture the emission being measured
  - 2) RBW = 1 MHz for  $f \geq 1\text{GHz}$ , 100 kHz for  $f < 1\text{ GHz}$
  - 3) VBW  $\geq$  RBW, Sweep = auto
  - 4) Detector function = peak
  - 5) Trace = max hold
- d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.

### 5.5.3 Test Result

*Note: If the PK measured values lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.*

#### Below 30MHz

EUT:	LED Dimmer	Model Name. :	V1
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 36V from adapter
Test Mode:	Normal link	Polarization :	--

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State
--	--	--	--	P/F
--	--	--	--	Pass
--	--	--	--	Pass

**Note:**

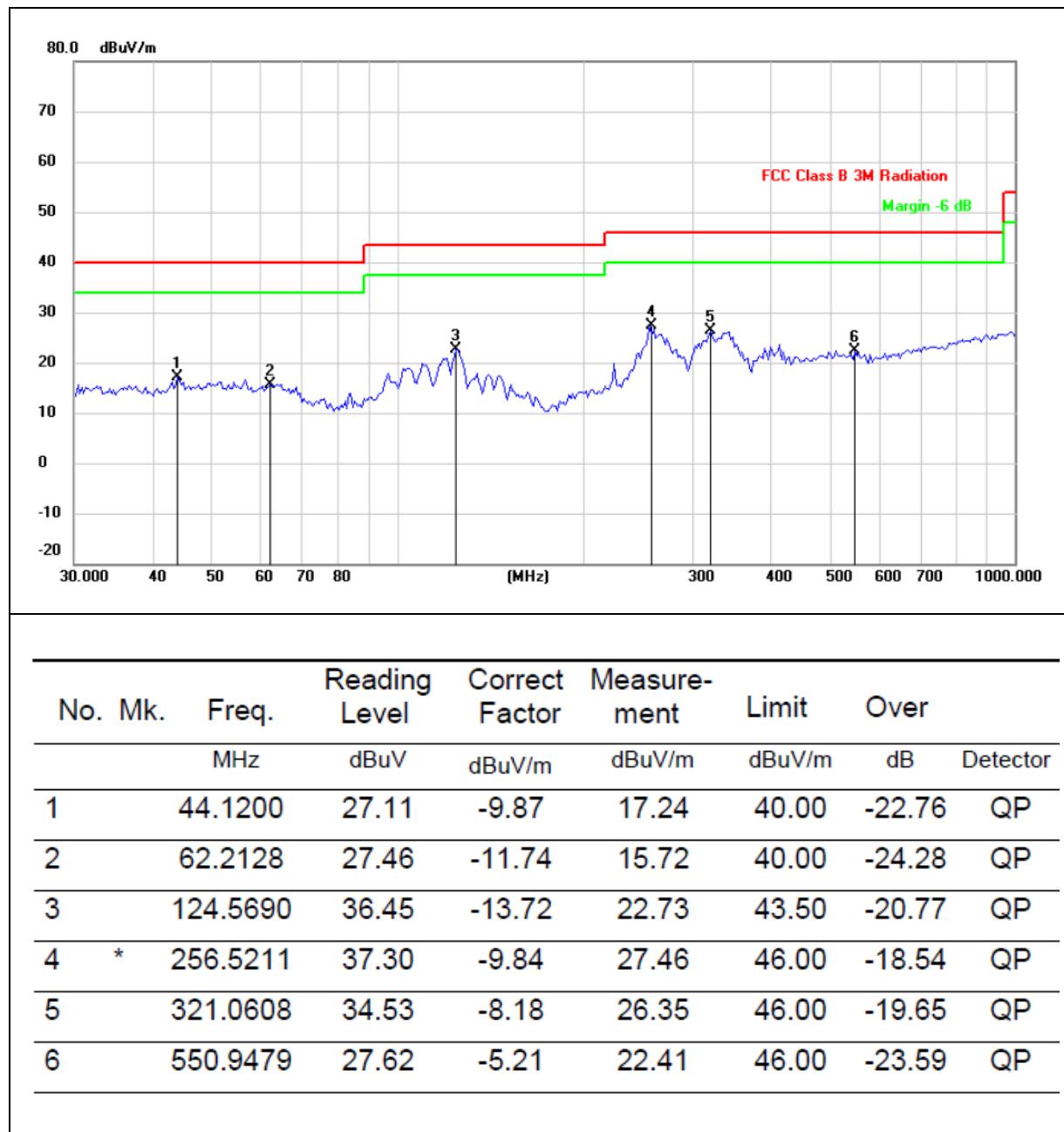
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

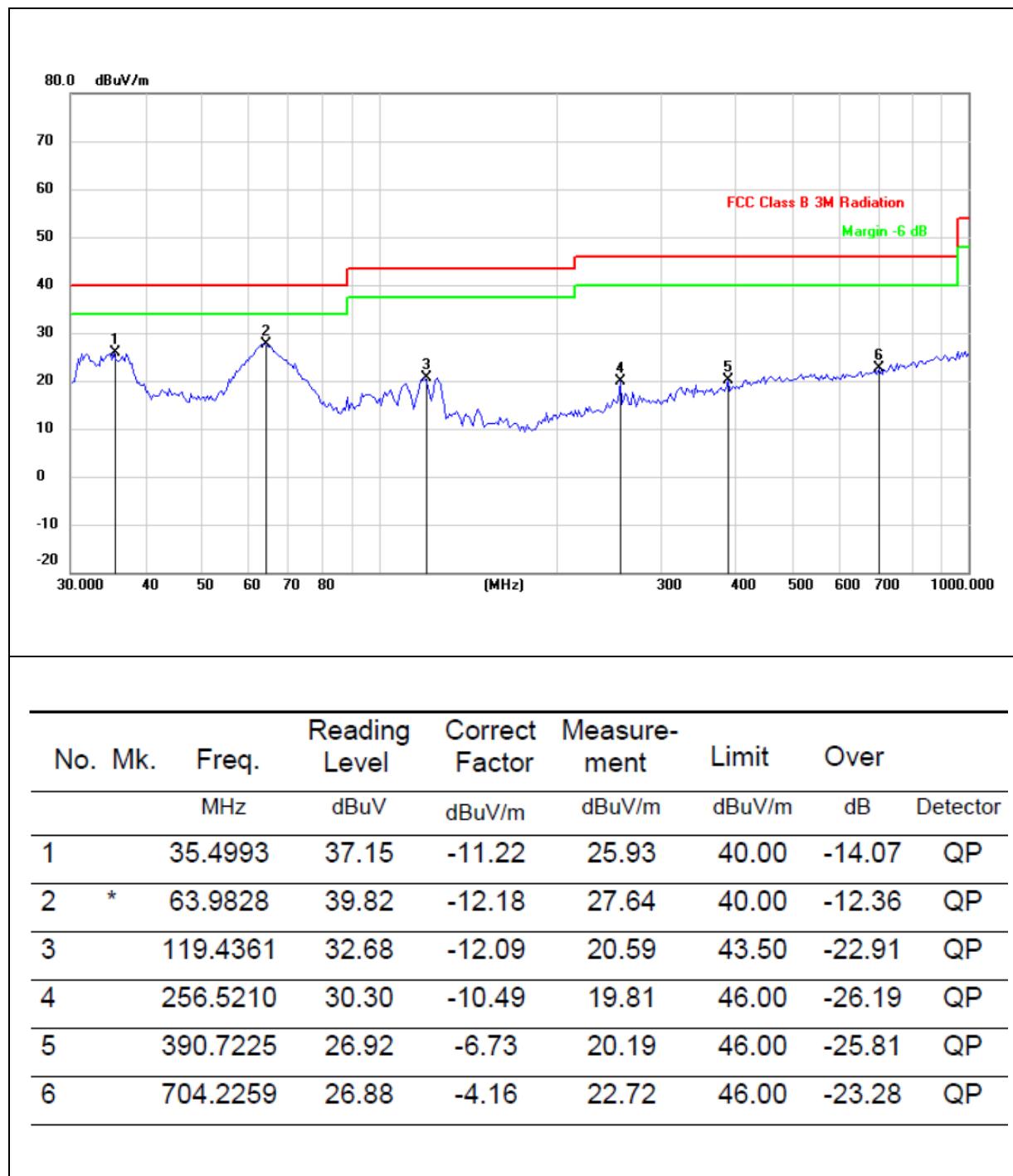
Limit line = specific limits(dBuV) + distance extrapolation factor.

**Radiation (30MHz – 1GHz)**

EUT:	LED Dimmer	Model Name. :	V1
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Polarization:	H
Test Voltage :	DC 36V from adapter	Test Mode:	Normal link



EUT:	LED Dimmer	Model Name. :	V1
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Polarization:	H
Test Voltage :	DC 36V from adapter	Test Mode:	Normal link



**Above 1GHz:**

Channel (2478 MHz)

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	4078.500	43.75	-3.07	40.68	74.00	-33.32	Peak
H	4078.500	22.81	-3.07	19.74	54.00	-34.26	AV
H	4959.750	52.87	-8.05	44.82	74.00	-29.18	Peak
H	4959.750	31.92	-8.05	23.87	54.00	-30.13	AV
H	7274.500	45.51	-2.79	42.72	74.00	-31.28	Peak
H	7274.500	26.24	-2.79	23.45	54.00	-30.55	AV
H	8743.250	45.22	-1.44	43.78	74.00	-30.22	Peak
H	8743.250	25.37	-1.44	23.93	54.00	-30.07	AV
H	10635.000	45.79	2.28	48.07	74.00	-25.93	Peak
H	10635.000	26.14	2.28	28.42	54.00	-25.58	AV
H	11774.750	44.15	2.47	46.62	74.00	-27.38	Peak
H	11774.750	23.88	2.47	26.35	54.00	-27.65	AV
V	4172.500	44.14	-3.59	40.55	74.00	-33.45	Peak
V	4172.500	23.96	-3.59	20.37	54.00	-33.63	AV
V	4959.750	53.55	-8.05	45.50	74.00	-28.50	Peak
V	4959.750	32.41	-8.05	24.36	54.00	-29.64	AV
V	7439.000	49.73	-2.74	46.99	74.00	-27.01	Peak
V	7439.000	28.84	-2.74	26.10	54.00	-27.90	AV
V	8954.750	45.55	-0.98	44.57	74.00	-29.43	Peak
V	8954.750	25.61	-0.98	24.63	54.00	-29.37	AV
V	9918.250	46.61	1.64	48.25	74.00	-25.75	Peak
V	9918.250	26.78	1.64	28.42	54.00	-25.58	AV
V	11622.000	44.77	2.47	47.24	74.00	-26.76	Peak
V	11622.000	24.23	2.47	26.70	54.00	-27.30	AV

#### 5.5.4 Bandedge-radiated

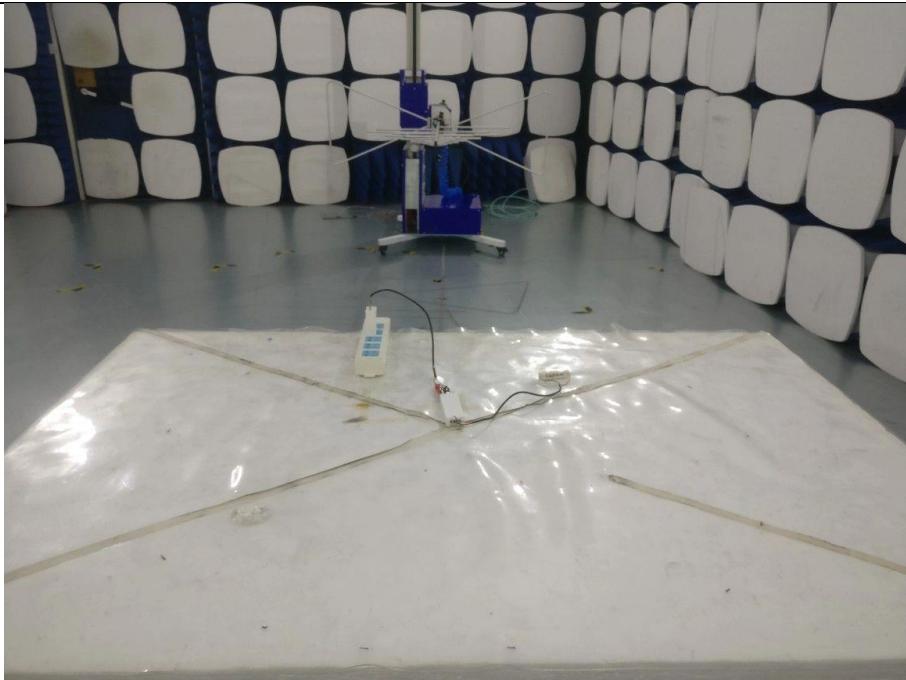
Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).  
(2) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor  
(3) All other emissions more than 20dB below the limit.

All the modulation modes have been tested, and the worst result was report as below:

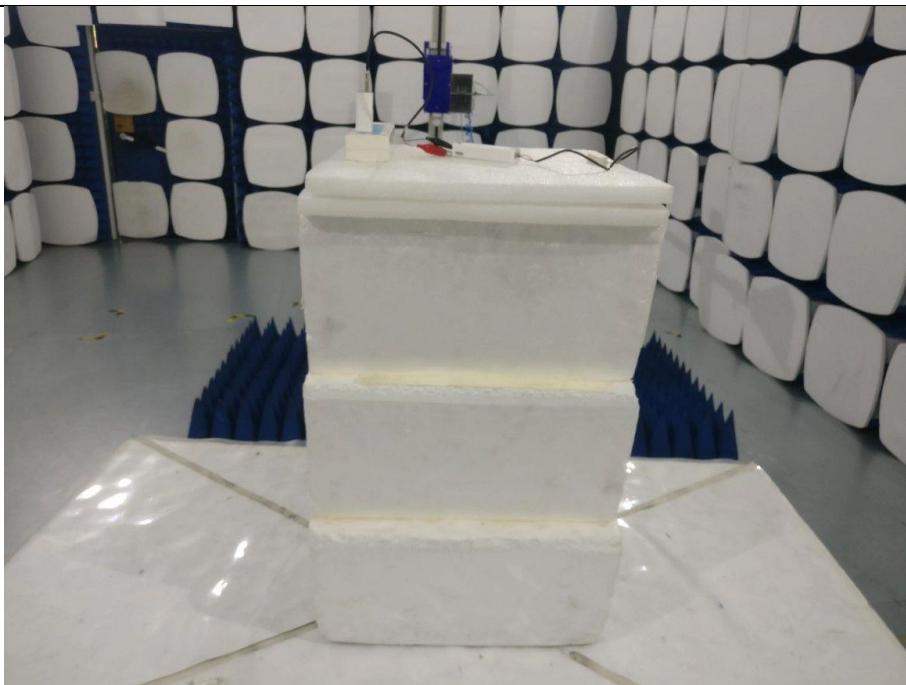
Frequency (MHz)	Meter Reading (dB $\mu$ V)	Cable Loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector Type	Comment
GFSK									
2310.00	64.05	2.97	27.80	43.80	51.02	74	-22.98	Pk	Horizontal
2310.00	43.85	2.97	27.80	43.80	30.82	54	-23.18	AV	Horizontal
2310.00	61.37	2.97	27.80	43.80	48.34	74	-25.66	Pk	Vertical
2310.00	42.26	2.97	27.80	43.80	29.23	54	-24.77	AV	Vertical
2390.00	63.61	3.14	27.21	43.80	50.16	74	-23.84	Pk	Vertical
2390.00	43.95	3.14	27.21	43.80	30.50	54	-23.50	AV	Vertical
2390.00	64.99	3.14	27.21	43.80	51.54	74	-22.46	Pk	Horizontal
2390.00	42.68	3.14	27.21	43.80	29.23	54	-24.77	AV	Horizontal
2400.00	63.13	3.21	27.49	44.00	49.83	74	-24.17	Pk	Vertical
2400.00	43.01	3.21	27.49	44.00	29.71	54	-24.29	AV	Vertical
2400.00	63.72	3.21	27.49	44.00	50.42	74	-23.58	Pk	Horizontal
2400.00	42.37	3.21	27.49	44.00	29.07	54	-24.93	AV	Horizontal
2483.50	63.08	3.58	27.70	44.00	50.36	74	-23.64	Pk	Vertical
2483.50	43.14	3.58	27.70	44.00	30.42	54	-23.58	AV	Vertical
2483.50	64.83	3.58	27.70	44.00	52.11	74	-21.89	Pk	Horizontal
2483.50	44.60	3.58	27.70	44.00	31.88	54	-22.12	AV	Horizontal

## Photographs of the Test Setup

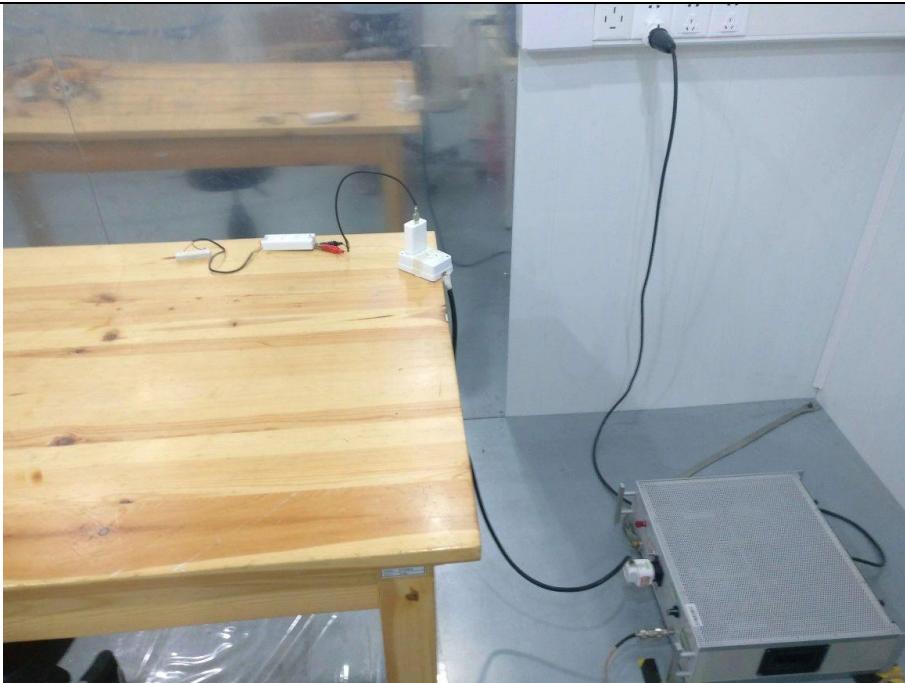
Radiated emission – below 1GHz



Radiated emission – above 1GHz



Conducted emission



**Photographs of the EUT**

See the APPENDIX 1: EUT PHOTO in the report No.: MTi181127E144-1.

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