

FCC Test Report

Report No.: AAOG-ESH-P21092094B

FCC ID: 2ABEU-YLYTD-0003-R

Product: Yeelight LED Screen Light Bar Pro-Remote

Model: YLYTD-0003-R

Received Date: Sep.27, 2021

Test Date: Sep.28 to Nov.24, 2021

Issued Date: Nov.25, 2021

Applicant: Qingdao Yeelink Information Technology Co., Ltd.

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Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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**FCC Registration /
Designation Number:** 176467/ CN1213



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TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 Certificate of Conformity	5
2 SUMMARY OF TEST RESULTS	6
3 MEASUREMENT UNCERTAINTY	6
4 GENERAL INFORMATION	7
4.1 GENERAL DESCRIPTION OF EUT	7
4.2 DESCRIPTION OF TEST MODES	8
4.3 Test Mode Applicability:	9
4.4 Test CONDITION	9
4.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	10
4.6 DESCRIPTION OF SUPPORT UNITS	10
5 TEST TYPES AND RESULTS	11
5.1 AC Power Conducted Emission	11
5.1.1 LIMITS	11
5.1.2 TEST PROCEDURES	11
5.1.3 DEVIATION FROM TEST STANDARD	11
5.1.4 TEST SETUP	12
5.1.5 EUT OPERATING CONDITIONS	12
5.1.6 TEST RESULTS	13
5.2 20dB BANDWIDTH MEASUREMENT	14
5.2.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT	14
5.2.2 TEST PROCEDURE	14
5.2.3 DEVIATION FROM TEST STANDARD	14
5.2.4 TEST SETUP	14
5.2.5 EUT OPERATING CONDITIONS	14
5.2.6 TEST RESULTS	15
5.3 RADIATED EMISSION MEASUREMENT	17
5.3.1 LIMITS OF RADIATED EMISSION MEASUREMENT	17
5.3.2 TEST PROCEDURES	18
5.3.3 DEVIATION FROM TEST STANDARD	19
5.3.4 TEST SETUP	19

5.3.5	EUT OPERATING CONDITIONS.....	20
5.3.6	TEST RESULTS.....	21
6	PHOTOGRAPHS OF THE TEST CONFIGURATION.....	28
7	APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGE TO THE EUT BY THE LAB.....	29



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
AAOG-ESH-P21092094B	Original release	Nov.25, 2021

1 Certificate of Conformity

Product: Yeelight LED Screen Light Bar Pro-Remote

Brand: YEELIGHT

Model: YLYTD-0003-R

Applicant: Qingdao Yeelink Information Technology Co., Ltd.

Test Date: Sep.28 to Nov.24, 2021

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.249)
ANSI C63.10:2013

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :

Yuan Zhang

, **Date:**

Nov.25, 2021

Yuan ZHANG

Project Engineer

Approved by :

, **Date:**

Nov.25, 2021

Daniel SUN

EMC Lab Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.249)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
§15.203	Antenna Requirement	PASS	No antenna connector is used
§15.207 (a)	AC Power Conducted Emission	NA	The EUT is powered by battery
§15.215(c)	20dB Bandwidth Test	PASS	Compliant
§15.205	Restricted Band of Operation	PASS	Compliant
§15.209 §15.249(a)	Radiated Emission	PASS	Compliant

3 MEASUREMENT UNCERTAINTY

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

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.83 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.36 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	3.47 dB
	6GHz ~ 18GHz	3.75 dB
	18GHz ~ 40GHz	3.30 dB

4 GENERAL INFORMATION

4.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Yeelight LED Screen Light Bar Pro-Remote
MODEL NO.	YLYTD-0003-R
NOMINAL VOLTAGE	Powered by Battery
MODULATION TECHNOLOGY	GFSK
OPERATING FREQUENCY	2406MHz ~ 2468MHz
Number of Channel	4
ANTENNA TYPE	PCB Antenna
ANTENNA GAIN	0dBi
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

4.2 DESCRIPTION OF TEST MODES

7 channels are provided for Bluetooth.

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2406 MHz	-	-
2	2415 MHz	-	-
3	2443 MHz	-	-
4	2468 MHz	-	-

4.3 Test Mode Applicability:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and packet type. The worst case was found when the EUT was positioned on Y axis for radiated emission. The EUT was tested under the following mode.

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE<1G	RE>1G	PLC	BW	
A	√	√	√	√	Powered by USB

Where **RE<1G**: Radiated Emission below 1GHz

RE>1G: Radiated Emission above 1GHz

PLC: Power Line Conducted Emission

BW: 20db bandwidth

NOTE: No need to concern of Conducted Emission due to the EUT is powered by battery.

Following channel(s) was (were) selected for the test as listed below.

TESTED CHANNEL	TESTED FREQUENCY
1	2406 MHz
3	2443 MHz
4	2468 MHz

Note: The more detailed channel, please refer to the product specifications

4.4 Test CONDITION

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE	25deg. C, 55%RH	Powered by Battery	Yuan ZHANG
BW	25deg. C, 54%RH	Powered by Battery	Yuan ZHANG
PLC	-	-	-

4.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standard:

FCC Part 15, Subpart C, Section 15.249

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

4.6 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without any other necessary accessories or support units

5 TEST TYPES AND RESULTS

5.1 AC Power Conducted Emission

5.1.1 LIMITS

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.1.2 TEST PROCEDURES

1. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
2. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit – 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

5.1.3 DEVIATION FROM TEST STANDARD

No deviation.

5.1.4 TEST SETUP

For the actual test configuration, please refer to the attached file (Test Setup Photo).

5.1.5 EUT OPERATING CONDITIONS

Same as 4.3

5.1.6 TEST RESULTS

Not applicable. The EUT is powered by battery.

5.2 20dB BANDWIDTH MEASUREMENT

5.2.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

According to FCC 15.215(c), 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.

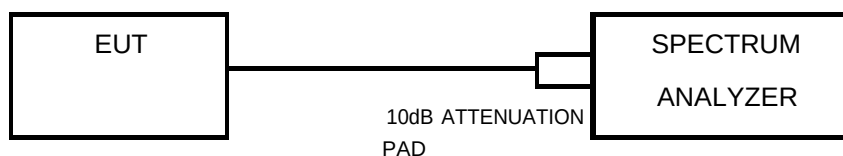
5.2.2 TEST PROCEDURE

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- Repeat above procedures until all frequencies measured were complete.

5.2.3 DEVIATION FROM TEST STANDARD

No deviation.

5.2.4 TEST SETUP



5.2.5 EUT OPERATING CONDITIONS

Turned on the power of all equipment.

EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

5.2.6 TEST RESULTS

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
1	2406	1.413
2	2443	1.416
4	2468	1.424

2406MHz



2443MHz



2468MHz



5.3 RADIATED EMISSION MEASUREMENT

5.3.1 LIMITS OF RADIATED EMISSION MEISSON MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
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

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

NOTE:

The lower limit shall apply at the transition frequencies.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

5.3.2 TEST PROCEDURES

- 1 The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2 The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3 The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4 For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5 The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6 For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- 7 If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

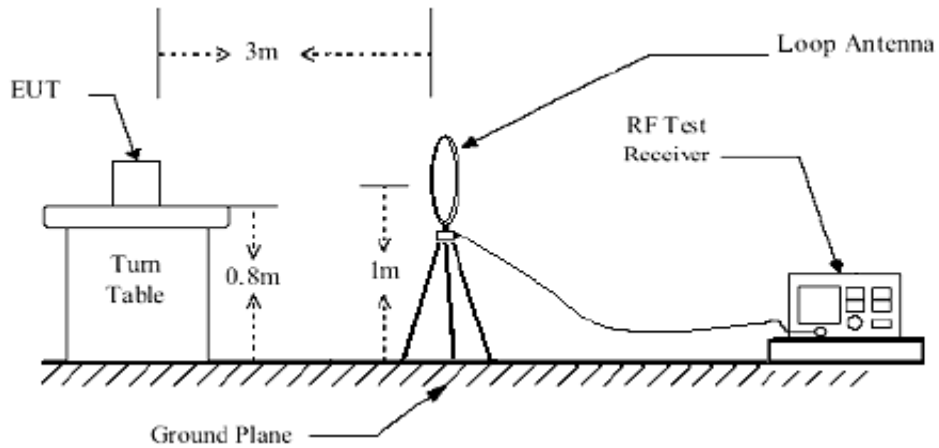
- 1 The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2 The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3 The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
- 4 All modes of operation were investigated and the worst-case emissions are reported.
- 5 The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

5.3.3 DEVIATION FROM TEST STANDARD

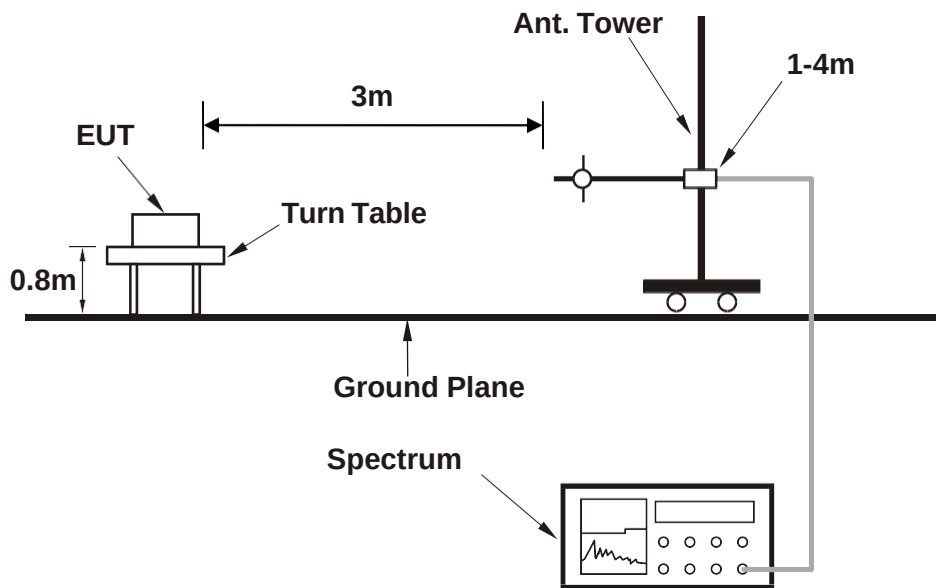
No deviation.

5.3.4 TEST SETUP

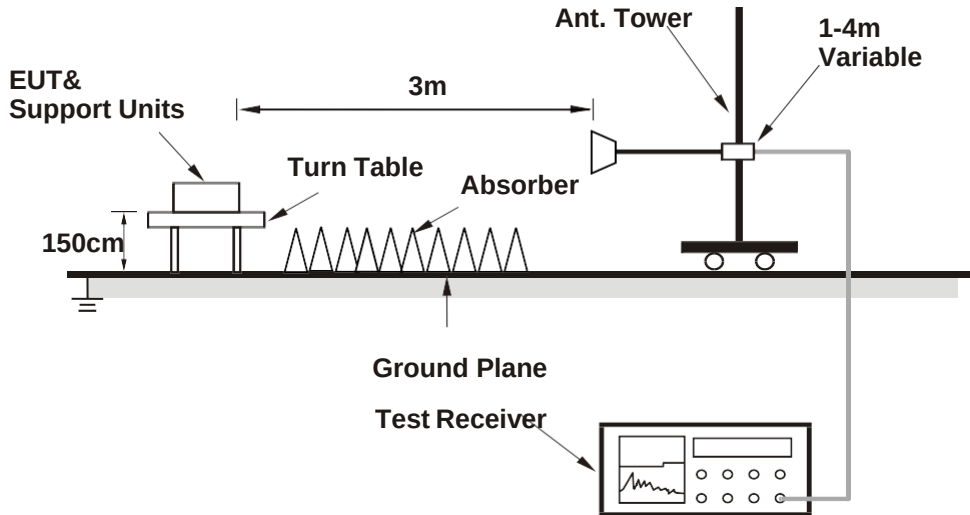
Below 30MHz test setup



Below 1GHz test setup



Above 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

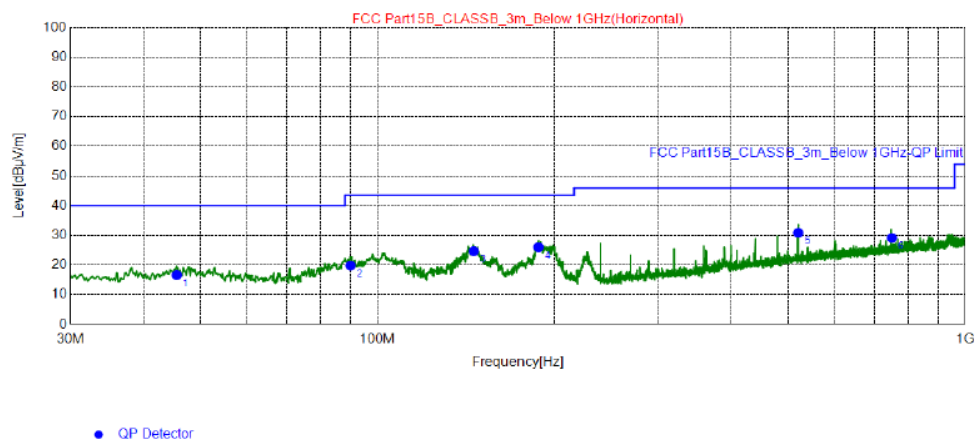
5.3.5 EUT OPERATING CONDITIONS

- 6 Turned on the power of all equipment.
- 7 EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

5.3.6 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

CHANNEL	TX High Channel	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		



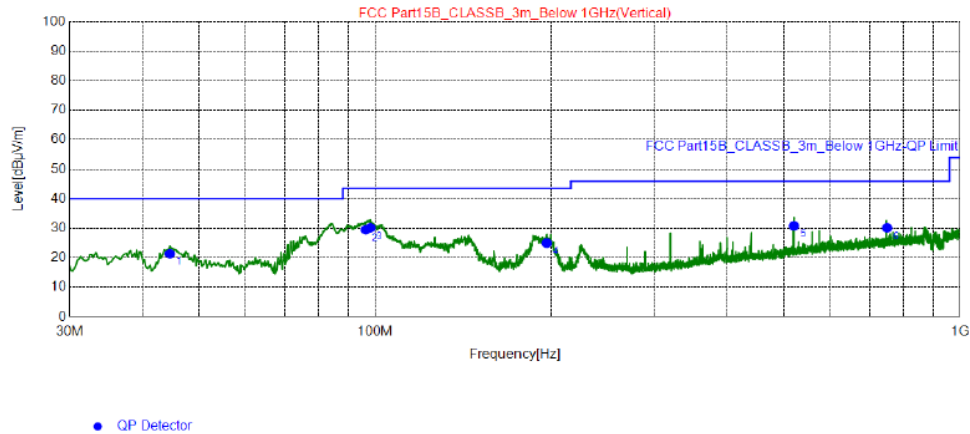
Final Data List

NO.	Freq. [MHz]	QP Reading [dB μ V/m]	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.52	27.36	-10.72	16.64	40.00	23.36	200	105	Horizontal
2	89.94	35.82	-16.02	19.80	43.50	23.70	200	263	Horizontal
3	145.8	35.51	-10.83	24.68	43.50	18.82	200	120	Horizontal
4	187.9	38.26	-12.24	26.02	43.50	17.48	200	18	Horizontal
5	520.0	35.18	-4.29	30.89	46.00	15.11	200	232	Horizontal
6	750.1	30.01	-0.86	29.15	46.00	16.85	200	320	Horizontal

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Limit value – Emission level.

CHANNEL	TX High Channel	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		



Final Data List

NO.	Freq. [MHz]	QP Reading [dB μV/m]	Factor [dB]	QP Value [dB μV/m]	QP Limit [dB μV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.55	32.14	-10.77	21.37	40.00	18.63	100	133	Vertical
2	96.34	44.95	-15.44	29.51	43.50	13.99	100	167	Vertical
3	98.09	45.44	-15.28	30.16	43.50	13.34	100	235	Vertical
4	196.4	37.87	-12.85	25.02	43.50	18.48	100	302	Vertical
5	520.0	35.14	-4.29	30.85	46.00	15.15	100	359	Vertical
6	750.1	31.02	-0.86	30.16	46.00	15.84	100	354	Vertical

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Limit value – Emission level.

ABOVE 1GHz WORST-CASE DATA:

CHANNEL	2406MHz	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 30GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2406.00	91.32 PK	114.00	22.68	155	282	108.99	-17.67
2	*2406.00	88.99 AV	94.00	5.01	155	282	106.66	-17.67
3	4811.40	51.54 PK	74.00	22.46	155	135	63.98	-12.44
4	4813.10	45.13 AV	54.00	8.87	155	135	57.57	-12.44
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2406.00	83.32 PK	114.00	30.68	155	240	100.99	-17.67
2	*2406.00	78.90 AV	94.00	15.10	155	240	96.57	-17.67
3	7216.90	50.57 PK	74.00	23.43	155	40	55.27	-4.70
4	7220.30	45.95 AV	54.00	8.05	155	34	50.66	-4.71

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value =Limit value –Emission level.
5. " * ": Fundamental frequency.

CHANNEL	2443MHz	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 30GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2443.00	91.67 PK	114.00	22.33	155	284	109.23	-17.56
2	*2443.00	86.69 AV	94.00	7.31	155	284	104.24	-17.56
3	7327.40	51.49 PK	74.00	22.51	155	299	56.55	-5.06
4	7329.10	45.55 AV	54.00	8.45	155	299	50.61	-5.06
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2443.00	85.97 PK	114.00	28.03	155	254	103.53	-17.56
2	*2443.00	81.42 AV	94.00	12.58	155	254	98.97	-17.55
3	7327.40	53.53 PK	74.00	20.47	155	89	58.59	-5.06
4	7329.10	48.52 AV	54.00	5.48	155	75	53.58	-5.06

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Limit value – Emission level.
5. " * ": Fundamental frequency.

CHANNEL	2468MHz	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 30GHz		Average (AV)

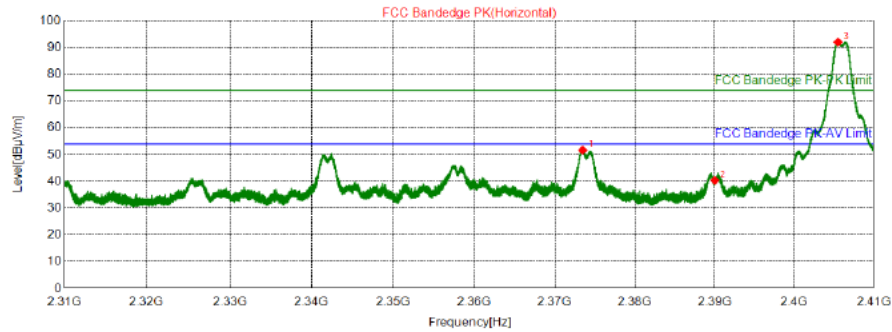
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2468.00	91.05 PK	114.00	22.95	155	289	108.54	-17.48
2	*2468.00	88.42 AV	94.00	5.58	155	289	105.90	-17.48
3	7402.20	51.81 PK	74.00	22.19	155	292	57.12	-5.31
4	7403.90	47.75 AV	54.00	6.25	155	292	53.06	-5.31
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2468.00	85.16 PK	114.00	28.84	155	250	102.65	-17.48
2	*2468.00	80.22 AV	94.00	13.78	155	250	97.70	-17.48
3	4811.40	51.54 PK	74.00	22.46	155	325	63.98	-12.44
4	4813.10	45.13 PK	54.00	8.87	155	128	57.57	-12.44

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Limit value – Emission level.
5. " * ": Fundamental frequency.

Band edge Plot

2406MHz/ Horizontal

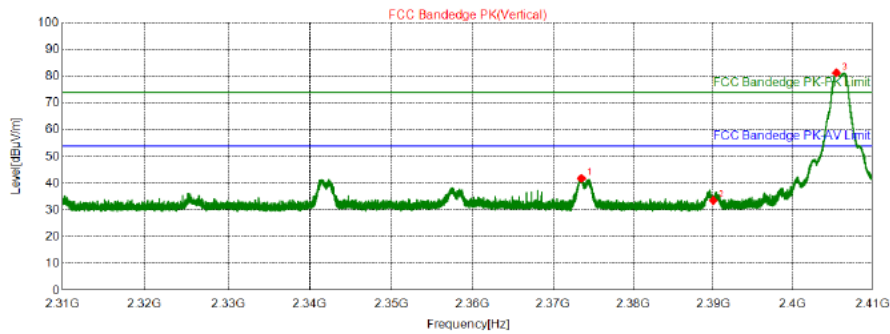


★ AV Detector

Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Detector
1	2373.4950	69.11	51.59	74.00	22.41	155	341	Horizontal	PK
2	2390.0000	57.85	40.38	74.00	33.62	155	341	Horizontal	PK
3	2405.5000	109.40	91.98	74.00	-17.98	155	341	Horizontal	PK

2406MHz/ Vertical

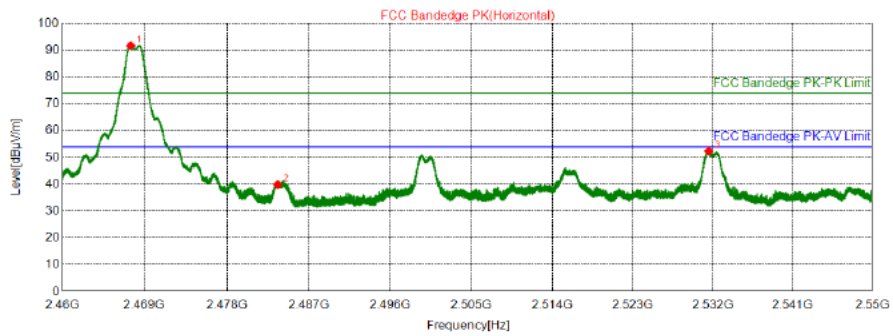


★ AV Detector

Suspected List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Detector
1	2373.5450	59.32	41.80	74.00	32.20	155	257	Vertical	PK
2	2390.0000	51.05	33.58	74.00	40.42	155	302	Vertical	PK
3	2405.4800	98.67	81.25	74.00	-7.25	155	295	Vertical	PK

2468MHz/ Horizontal

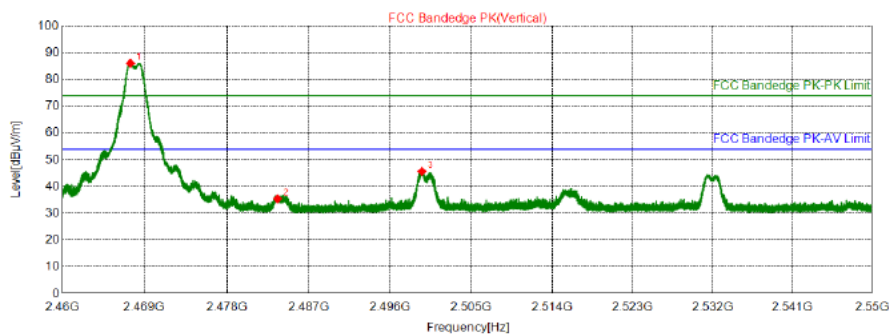


★ AV Detector

Suspected List

NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Detector
1	2467.4970	108.87	91.65	74.00	-17.65	155	352	Horizontal	PK
2	2483.5035	57.03	39.87	74.00	34.13	155	32	Horizontal	PK
3	2531.5500	69.37	52.36	74.00	21.64	155	345	Horizontal	PK

2468MHz/ Vertical



★ AV Detector

Suspected List

NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Detector
1	2467.4745	103.25	86.03	74.00	-12.03	155	225	Vertical	PK
2	2483.5035	52.60	35.44	74.00	38.56	155	231	Vertical	PK
3	2499.4965	62.78	45.67	74.00	28.33	155	225	Vertical	PK

6 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

7 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGE TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---