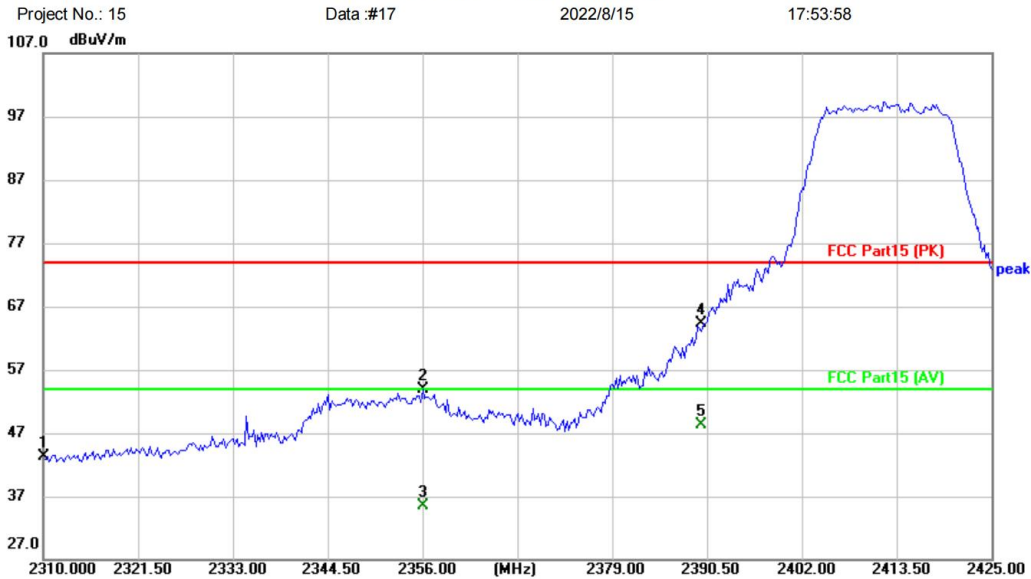


[TestMode: TX g low channel]; [Polarity: Horizontal]

**Radiated Emission Measurement**



Site:      Polarization: **Horizontal**      Temperature: (C)  
 Limit: FCC Part15 (PK)      Power:      Humidity: %RH  
 EUT: Smart Bulb  
 M/N: HT-US-T1A199.5W950-RGBCW2E-V2  
 Mode: 2.4Gwifi 11GTX-L  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2310.000	46.39	-3.02	43.37	74.00	-30.63	peak	
2		2356.000	56.66	-2.71	53.95	74.00	-20.05	peak	
3		2356.000	38.30	-2.71	35.59	54.00	-18.41	AVG	
4		2390.000	66.86	-2.50	64.36	74.00	-9.64	peak	
5	*	2390.000	50.89	-2.50	48.39	54.00	-5.61	AVG	

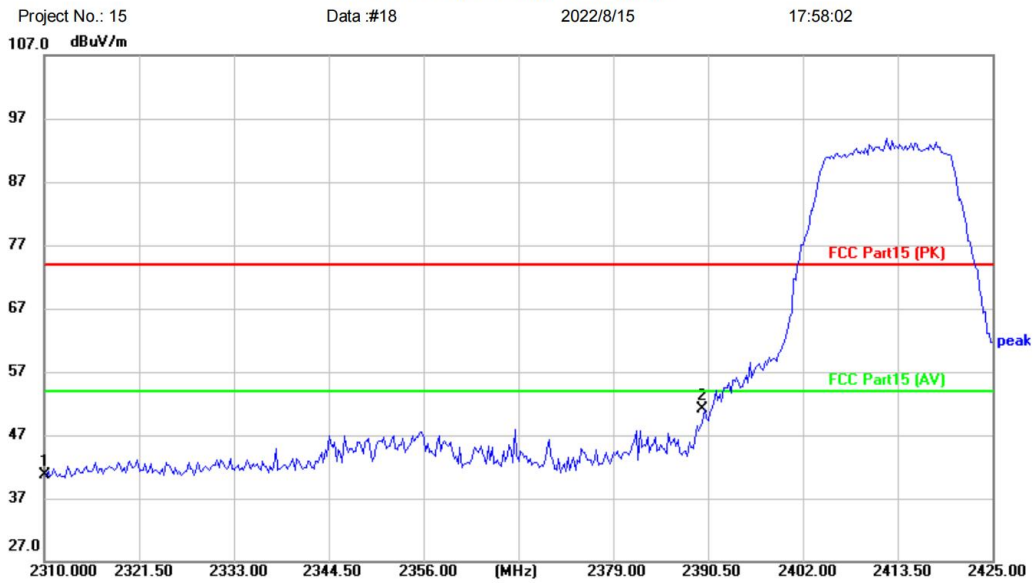
\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX g low channel]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site:      Polarization: **Vertical**      Temperature: (C)  
Limit: FCC Part15 (PK)      Power:      Humidity: %RH  
EUT: Smart Bulb  
M/N: HT-US-T1A199.5W950-RGBCW2E-V2  
Mode: 2.4Gwifi 11GTX-L  
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2310.000	43.80	-3.02	40.78	74.00	-33.22	peak	
2	*	2390.000	53.53	-2.50	51.03	74.00	-22.97	peak	

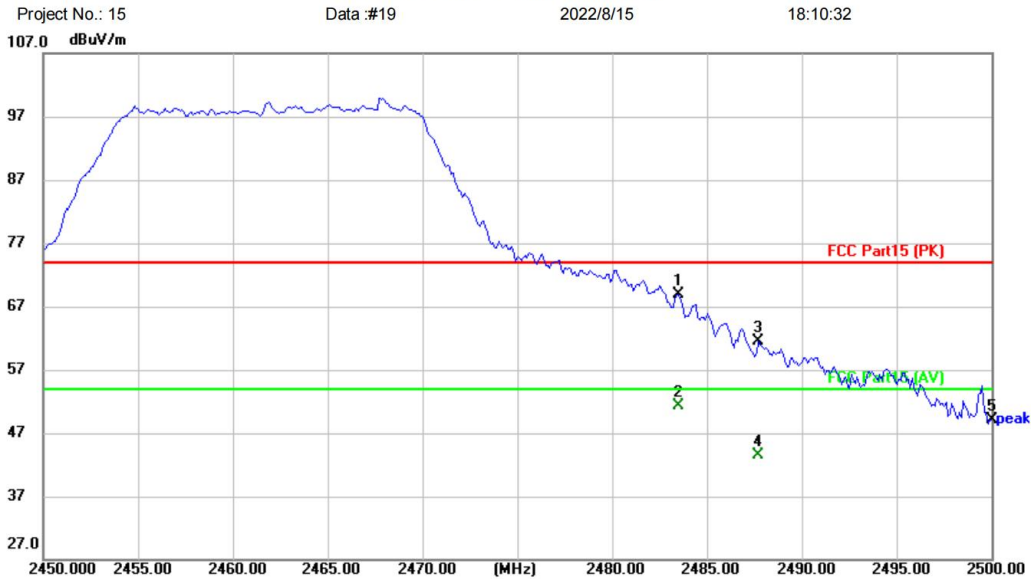
\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX g high channel]; [Polarity: Horizontal]

**Radiated Emission Measurement**



Project No.: 15      Data #19      2022/8/15      18:10:32  
 107.0 dBuV/m

Site:      Polarization: **Horizontal**      Temperature: (C)  
 Limit: FCC Part15 (PK)      Power:      Humidity: %RH  
 EUT: Smart Bulb  
 M/N: HT-US-T1A199.5W950-RGBCW2E-V2  
 Mode: 2.4Gwifi 11GTX-H  
 Note:

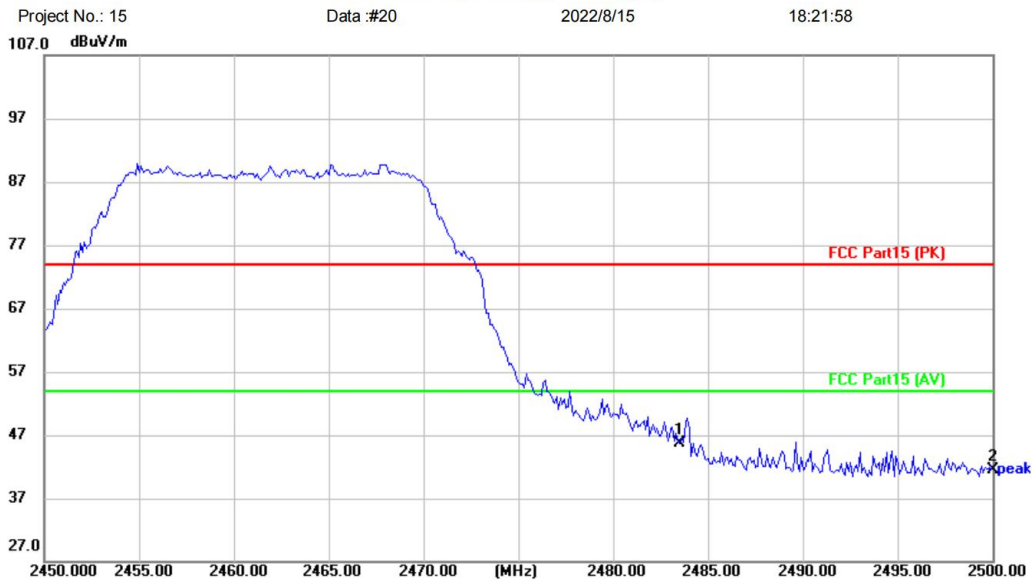
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2483.500	71.35	-2.52	68.83	74.00	-5.17	peak	
2	*	2483.500	53.85	-2.52	51.33	54.00	-2.67	AVG	
3		2487.700	63.97	-2.54	61.43	74.00	-12.57	peak	
4		2487.700	45.97	-2.54	43.43	54.00	-10.57	AVG	
5		2500.000	51.71	-2.55	49.16	74.00	-24.84	peak	

\*:Maximum data    x:Over limit    !:over margin      (Reference Only)

**Test Result: Pass**

[TestMode: TX g high channel]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site:      Polarization: **Vertical**      Temperature: (C)  
Limit: FCC Part15 (PK)      Power:      Humidity: %RH  
EUT: Smart Bulb  
M/N: HT-US-T1A199.5W950-RGBCW2E-V2  
Mode: 2.4Gwifi 11GTX-H  
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	*	2483.500	48.19	-2.52	45.67	74.00	-28.33	peak	
2		2500.000	44.06	-2.55	41.51	74.00	-32.49	peak	

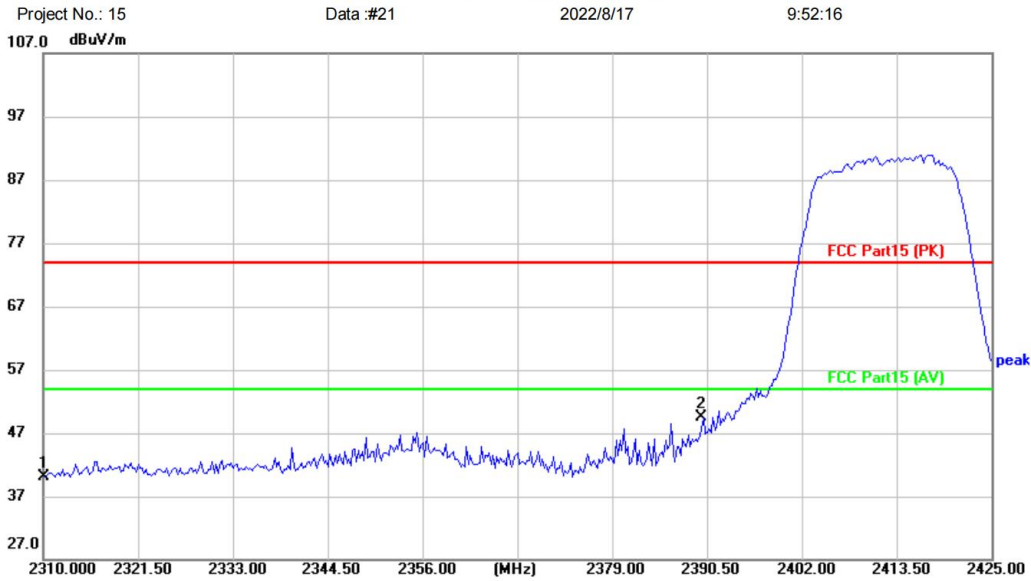
\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX n20 low channel]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site:      Polarization: **Vertical**      Temperature: (C)  
Limit: FCC Part15 (PK)      Power:      Humidity: %RH  
EUT: Smart Bulb  
M/N: HT-US-T1A199.5W950-RGBCW2E-V2  
Mode: 2.4Gwifi 11N20 TX-L  
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2310.000	43.16	-3.02	40.14	74.00	-33.86	peak	
2	*	2390.000	51.98	-2.50	49.48	74.00	-24.52	peak	

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

(Reference Only)

**Test Result: Pass**

[TestMode: TX n20 low channel]; [Polarity: Horizontal]

**Radiated Emission Measurement**



Project No.: 15      Data #:22      2022/8/17      9:53:52  
107.0 dBuV/m

Site:      Polarization: **Horizontal**      Temperature: (C)  
Limit: FCC Part15 (PK)      Power:      Humidity: %RH  
EUT: Smart Bulb  
M/N: HT-US-T1A199.5W950-RGBCW2E-V2  
Mode: 2.4Gwifi 11N20 TX-L  
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2310.000	44.26	-3.02	41.24	74.00	-32.76	peak	
2		2354.160	56.45	-2.72	53.73	74.00	-20.27	peak	
3		2354.160	38.28	-2.72	35.56	54.00	-18.44	AVG	
4		2390.000	68.06	-2.50	65.56	74.00	-8.44	peak	
5	*	2390.000	53.76	-2.50	51.26	54.00	-2.74	AVG	

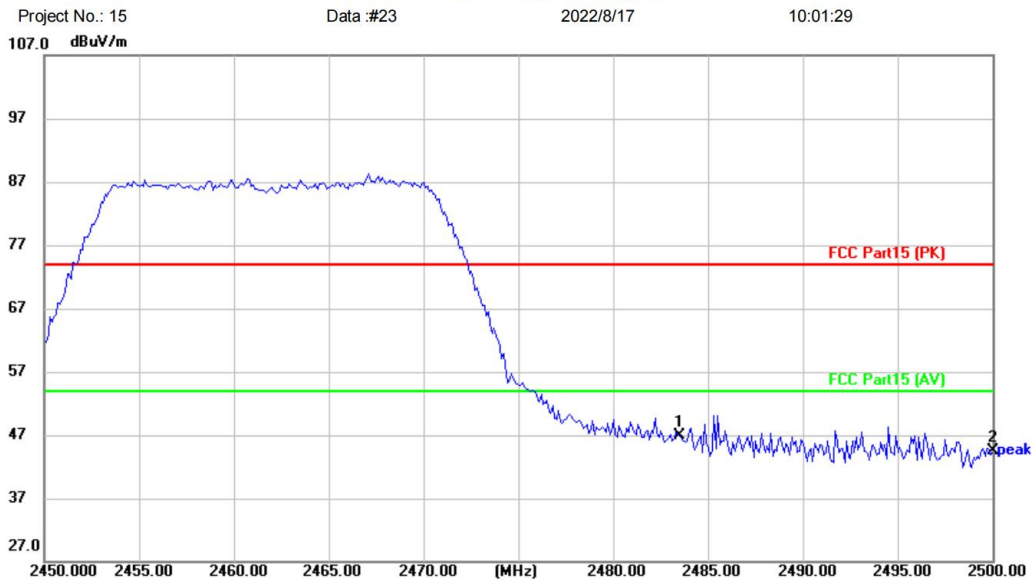
\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX n20 high channel]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site:      Polarization: **Vertical**      Temperature: (C)  
Limit: FCC Part15 (PK)      Power:      Humidity: %RH  
EUT: Smart Bulb  
M/N: HT-US-T1A199.5W950-RGBCW2E-V2  
Mode: 2.4Gwifi 11N20 TX-H  
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	*	2483.500	49.50	-2.52	46.98	74.00	-27.02	peak	
2		2500.000	47.09	-2.55	44.54	74.00	-29.46	peak	

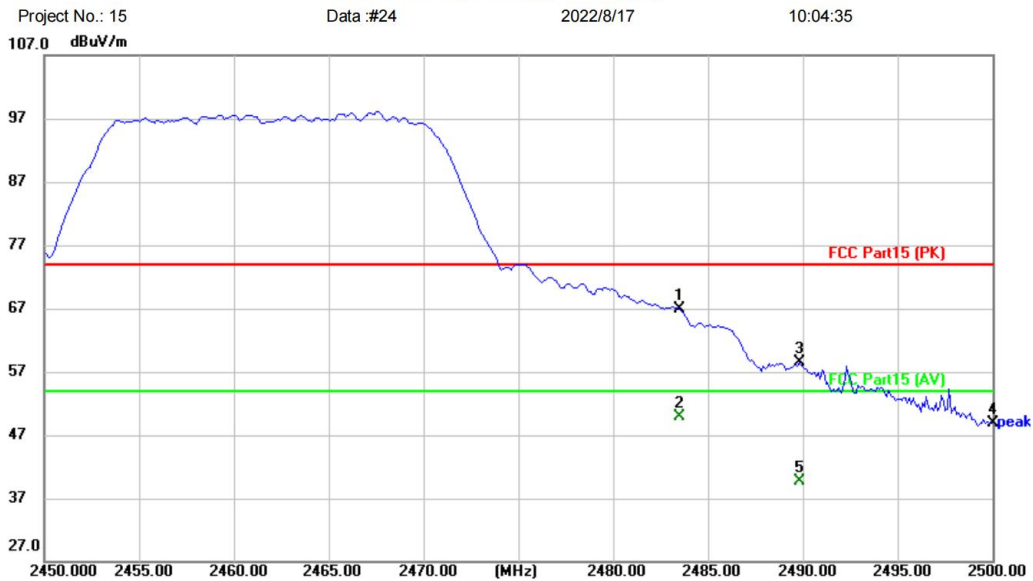
\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX n20 high channel]; [Polarity: Horizontal]

**Radiated Emission Measurement**



Site: Polarization: **Horizontal** Temperature: (C)  
 Limit: FCC Part15 (PK) Power: Humidity: %RH  
 EUT: Smart Bulb  
 M/N: HT-US-T1A199.5W950-RGBCW2E-V2  
 Mode: 2.4Gwifi 11N20 TX-H  
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2483.500	69.40	-2.52	66.88	74.00	-7.12	peak	
2	*	2483.500	52.44	-2.52	49.92	54.00	-4.08	AVG	
3		2489.800	60.97	-2.54	58.43	74.00	-15.57	peak	
4		2500.000	51.38	-2.55	48.83	74.00	-25.17	peak	
5		2489.800	42.18	-2.54	39.64	54.00	-14.36	AVG	

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

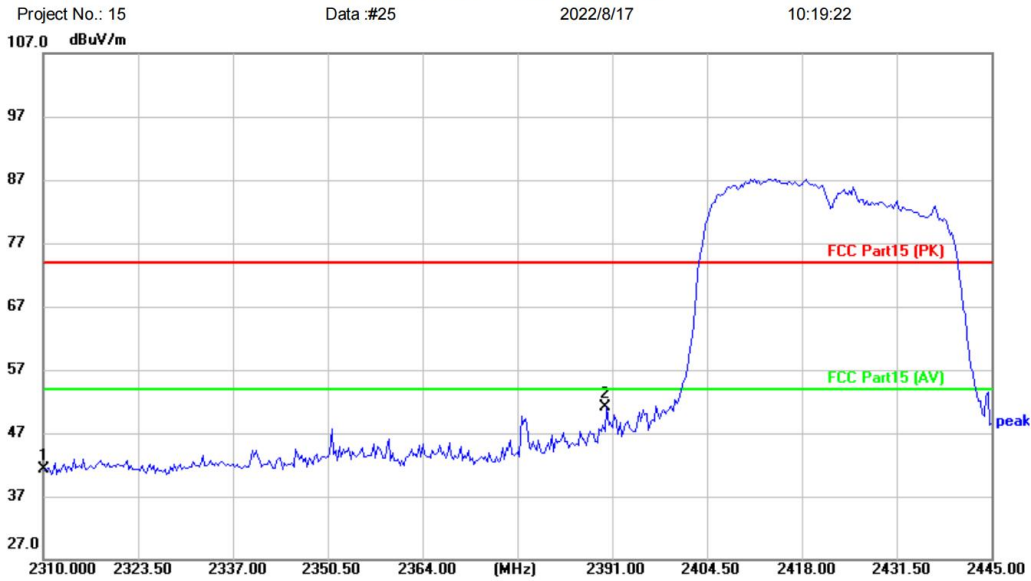
(Reference Only)

**Test Result: Pass**



[TestMode: TX n40 low channel]; [Polarity: Vertical]

**Radiated Emission Measurement**



Site:      Polarization: **Vertical**      Temperature: (C)  
Limit: FCC Part15 (PK)      Power:      Humidity: %RH  
EUT: Smart Bulb  
M/N: HT-US-T1A199.5W950-RGBCW2E-V2  
Mode: 2.4Gwifi 11N40 TX-L  
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2310.000	44.23	-3.02	41.21	74.00	-32.79	peak	
2	*	2390.000	53.61	-2.50	51.11	74.00	-22.89	peak	

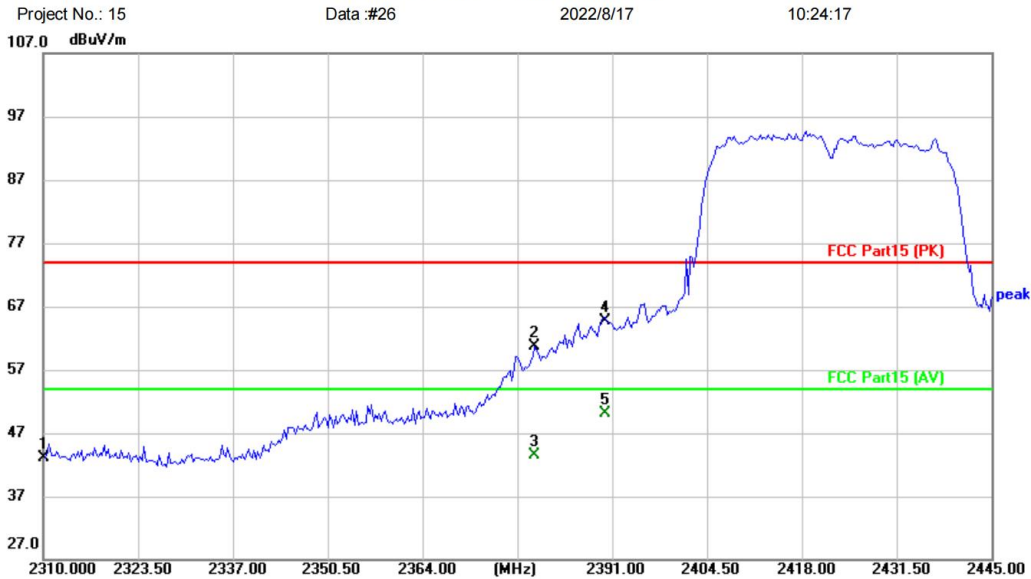
\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Test Result: Pass**

[TestMode: TX n40 low channel]; [Polarity: Horizontal]

**Radiated Emission Measurement**



Site:      Polarization: **Horizontal**      Temperature: (C)  
 Limit: FCC Part15 (PK)      Power:      Humidity: %RH  
 EUT: Smart Bulb  
 M/N: HT-US-T1A199.5W950-RGBCW2E-V2  
 Mode: 2.4Gwifi 11N40 TX-L  
 Note:

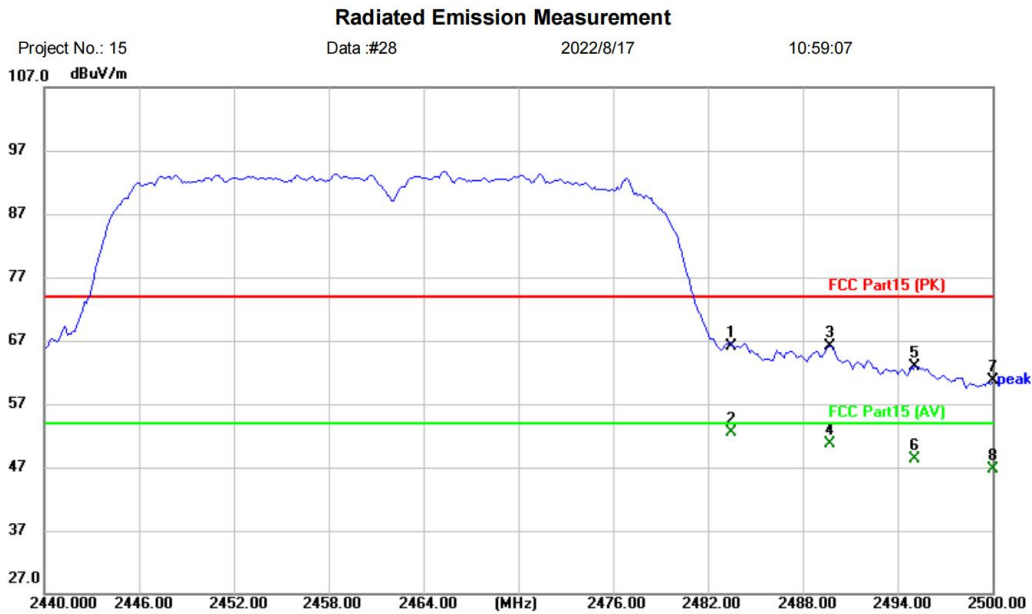
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2310.000	46.19	-3.02	43.17	74.00	-30.83	peak	
2		2379.930	63.32	-2.56	60.76	74.00	-13.24	peak	
3		2379.930	46.09	-2.56	43.53	54.00	-10.47	AVG	
4		2390.000	67.18	-2.50	64.68	74.00	-9.32	peak	
5	*	2390.000	52.60	-2.50	50.10	54.00	-3.90	AVG	

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

(Reference Only)

**Test Result: Pass**

[TestMode: TX n40 high channel]; [Polarity: Vertical]



Site	Polarization: <b>Horizontal</b>	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Smart Bulb		
M/N: HT-US-T1A199.5W950-RGBCW2E-V2		
Mode: 2.4Gwifi 11N40 TX-H		
Note:		

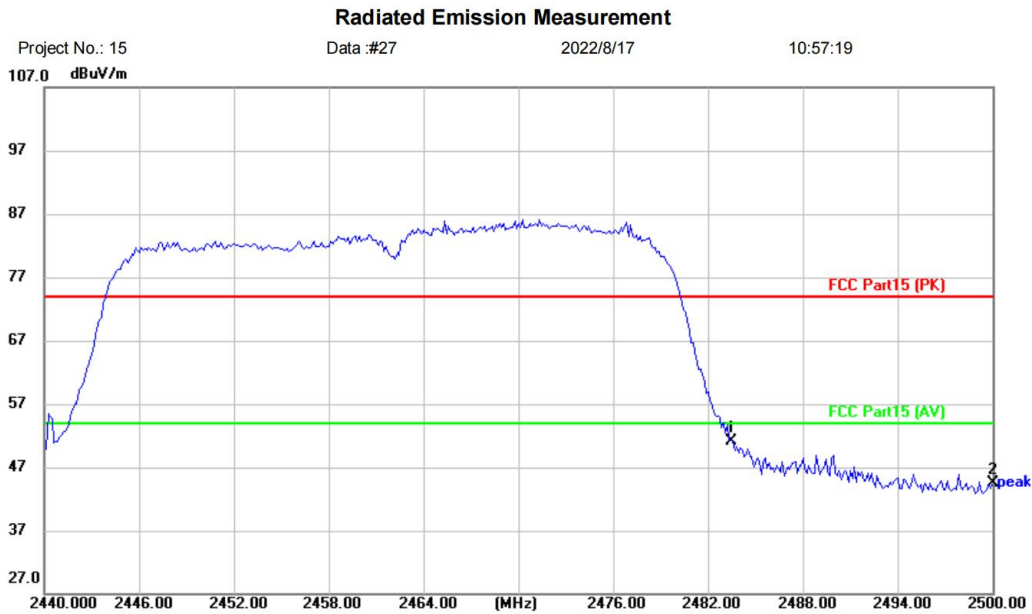
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2483.500	68.72	-2.52	66.20	74.00	-7.80	peak	
2	*	2483.500	55.00	-2.52	52.48	54.00	-1.52	AVG	
3		2489.680	68.71	-2.54	66.17	74.00	-7.83	peak	
4		2489.680	53.25	-2.54	50.71	54.00	-3.29	AVG	
5		2495.080	65.42	-2.55	62.87	74.00	-11.13	peak	
6		2495.080	50.88	-2.55	48.33	54.00	-5.67	AVG	
7		2500.000	63.28	-2.55	60.73	74.00	-13.27	peak	
8		2500.000	49.31	-2.55	46.76	54.00	-7.24	AVG	

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

<Reference Only

**Test Result: Pass**

[TestMode: TX n40 high channel]; [Polarity: Horizontal]



Site:      Polarization: **Vertical**      Temperature: (C)  
 Limit: FCC Part15 (PK)      Power:      Humidity: %RH  
 EUT: Smart Bulb  
 M/N: HT-US-T1A199.5W950-RGBCW2E-V2  
 Mode: 2.4Gwifi 11N40 TX-H  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2483.500	53.68	-2.52	51.16	74.00	-22.84	peak	
2		2500.000	46.99	-2.55	44.44	74.00	-29.56	peak	

\*:Maximum data    x:Over limit    !:over margin      <Reference Only

**Test Result: Pass**

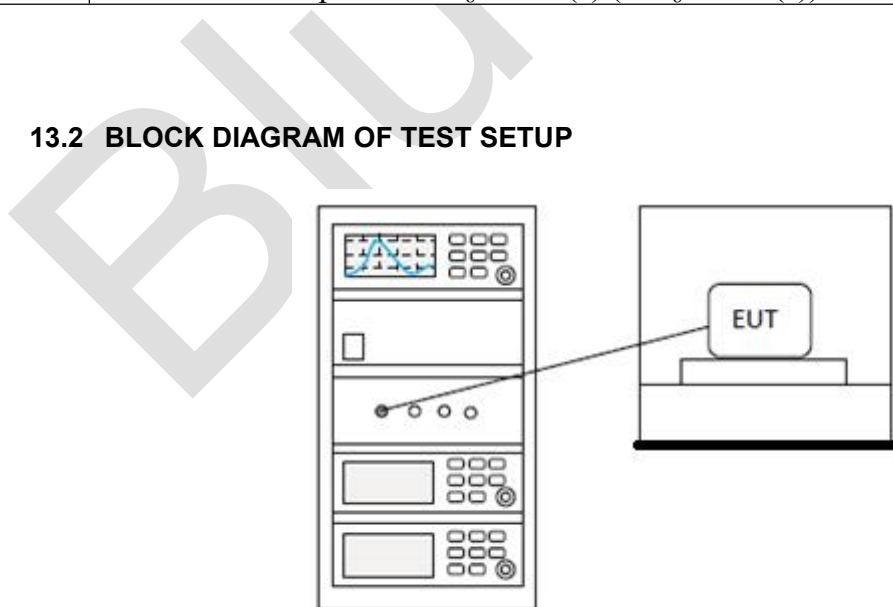
### 13 CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

#### 13.1 LIMITS

<b>Limit:</b>	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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#### 13.2 BLOCK DIAGRAM OF TEST SETUP



### 13.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

BlueAsia

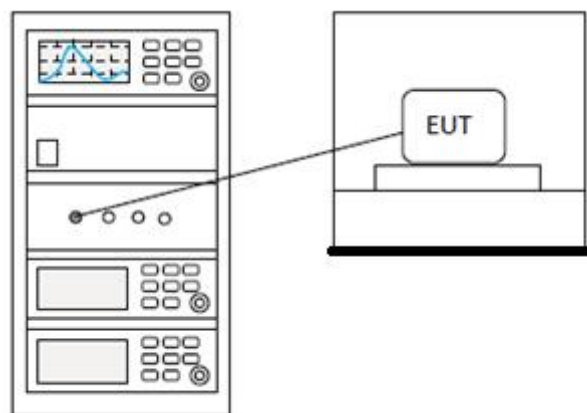
## 14 CONDUCTED BAND EDGES MEASUREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

### 14.1 LIMITS

<b>Limit:</b>	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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### 14.2 BLOCK DIAGRAM OF TEST SETUP



### 14.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

BlueAsia



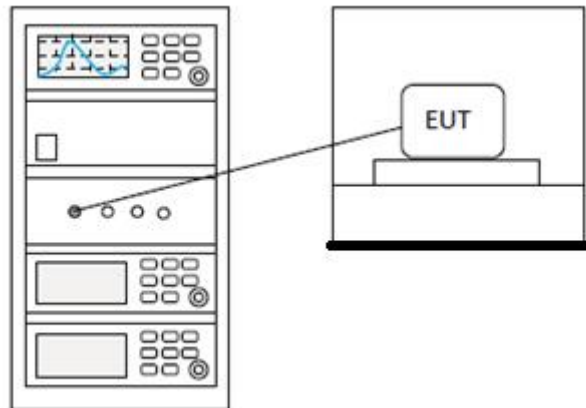
## 15 MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

### 15.1 LIMITS

Limit:	$\geq 500$ kHz
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### 15.2 BLOCK DIAGRAM OF TEST SETUP



### 15.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

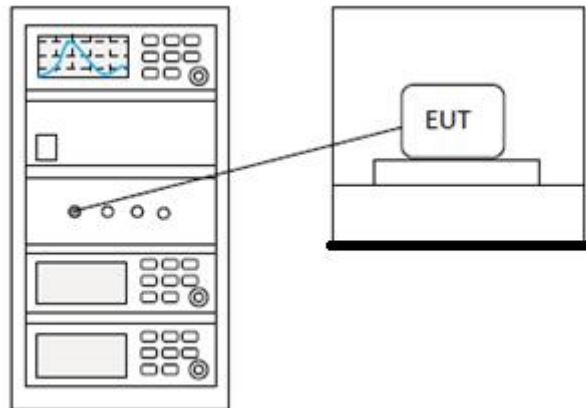
## 16 POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25°C
Humidity	60%

### 16.1 LIMITS

**Limit:**  $\leq 8\text{dBm}$  in any 3 kHz band during any time interval of continuous transmission

### 16.2 BLOCK DIAGRAM OF TEST SETUP



### 16.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

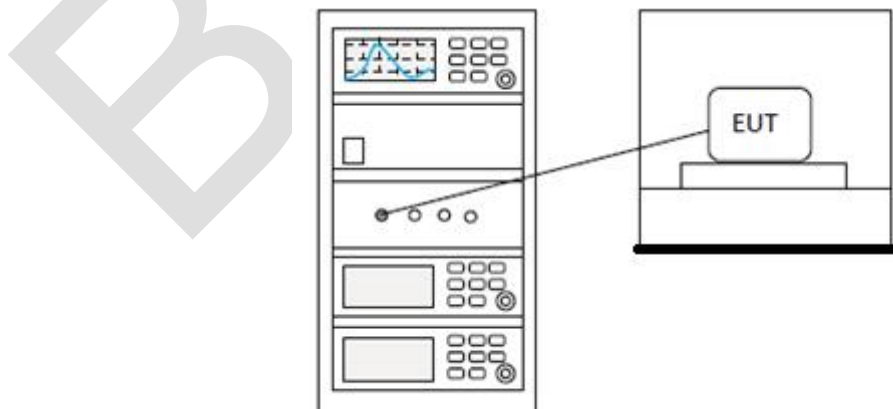
## 17 CONDUCTED PEAK OUTPUT POWER

<b>Test Standard</b>	47 CFR Part 15, Subpart C 15.247
<b>Test Method</b>	ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1
<b>Test Mode (Pre-Scan)</b>	TX
<b>Test Mode (Final Test)</b>	TX
<b>Tester</b>	Jozu
<b>Temperature</b>	25°C
<b>Humidity</b>	60%

### 17.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

### 17.2 BLOCK DIAGRAM OF TEST SETUP



### 17.3 TEST DATA

**Pass: Please Refer To Appendix: Appendix1 For Details**

BlueAsia