

# **FCC Test Report**

Report No.: AGC11410201103FE05

FCC ID : 2AWCBHS-001A

APPLICATION PURPOSE **Original Equipment** 

PRODUCT DESIGNATION Multi-color Smart Table Lamp - WIFI

**BRAND NAME** N/A

HS-001A, HG05WH, HG05LW, HG05DW, HG05GE,

HG05MW, HG05BW, HG05BY, PR902101-US,

**MODEL NAME** PR902102-US, PR902102-US-a, PR902103-US,

PR902103-US-a, MSL450, MSL440

**APPLICANT** SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD

**DATE OF ISSUE** : Jan. 26, 2021

STANDARD(S)

TEST PROCEDURE(S)

FCC Part 15.247

REPORT VERSION V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd





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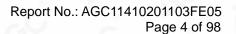
## REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 26, 2021	Valid	Initial Release



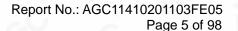
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## 1. VERIFICATION OF CONFORMITY

1, 1 = 1111 100 1110 11 01		
Applicant	SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD	
Address	Software Building, No. 9 Gaoxin Zhong Yi Road, High-Tech Park, Nanshan district, Shenzhen, China	
manufacturer	SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD	
Address	Software Building, No. 9 Gaoxin Zhong Yi Road, High-Tech Park, Nanshan district, Shenzhen, China	
Factory	Shenzhenshi Kaixin Guangdian Co., Ltd Bao An Branch	
Address	4th floor, A3 building, Yangbei industrial park 1st phase, Huangtian, Hangcheng street, Bao'an district, Shenzhen, China	
Product Designation Multi-color Smart Table Lamp - WIFI		
Brand Name	N/A	
Test Model	HS-001A	
Series Model	HG05WH, HG05LW, HG05DW, HG05GE, HG05MW, HG05BW, HG05BY, PR902101-US, PR902102-US-a, PR902103-US, PR902103-US-a, MSL450, MSL440	
Difference description	All the series models are the same as the test model except for the model names and the appearance of color.	
Date of test	Nov. 20, 2020 to Jan. 26, 2021	
Deviation	No any deviation from the test method	
Condition of Test Sample	Normal	
Test Result Pass		
Report Template	AGCRT-US-BGN/RF	

#### We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Prepared By	keury chang	
	Kelly Cheng (Project Engineer)	Jan. 26, 2021
Reviewed By	Max Zhang	
yC AC	Max Zhang (Reviewer)	Jan. 26, 2021
Approved By	Formaties	
GC -	Forrest Lei (Authorized Officer)	Jan. 26, 2021



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## 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

The EUT is designed as "Multi-color Smart Table Lamp - WIFI". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

A major teermiear description of Ee F is described as following				
Operation Frequency	2.412 GHz~2.462GHz			
Output Power(Average)	IEEE 802.11b:15.97dBm; IEEE 802.11g:15.08dBm;			
Output Power (Average)	IEEE 802.11n(20):12.08dBm; IEEE 802.11n(40):12.68dBm			
Output Power(Peak)	IEEE 802.11b:19.51dBm; IEEE 802.11g:22.84dBm;			
Output Power(Peak)	IEEE 802.11n(20):20.25dBm; IEEE 802.11n(40):20.19dBm			
Modulation DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-				
Number of channels 11				
Hardware Version	KX06-202010-1			
Software Version	V1.4.1			
Antenna Designation PCB antenna(Comply with requirements of the FCC part 15.2				
Antenna Gain 1.5dBi				
Power Supply DC 5V by adapter				

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	<b>Channel Number</b>	Frequency	
GO C	。 1	2412 MHZ	
	2	2417 MHZ	
0	3	2422 MHZ	
NGO CO	4	2427 MHZ	
	5	2432 MHZ	
2400~2483.5MHZ	6	2437 MHZ	
	7	2442 MHZ	
	8	2447 MHZ	
	9	2452 MHZ	
20	10	2457 MHZ	
	11, 0	2462 MHZ	

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11. For 40MHZ bandwidth system use Channel 3 to Channel 9



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#### 2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation R	R	NBPSC	NCI	BPS	NDI	BPS	rate(I	ata Mbps) nsGl
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Symbol	Explanation		
NSS	Number of spatial streams		
R	Code rate		
NBPSC	Number of coded bits per single carrier		
NCBPS	Number of coded bits per symbol		
NDBPS	Number of data bits per symbol		
GI	Guard interval		

## 2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AWCBHS-001A** filing to comply with the FCC Part 15 requirements.

#### 2.5. TEST METHODOLOGY

KDB 558074 D01 15.247 Meas Guidance v05: Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

#### 2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

## 2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.



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#### 2.8. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.



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## 3. MEASUREMENT UNCERTAINTY

Test	Measurement Uncertainty	Notes
Transmitter power conducted	±0.57 dB	(1)
Transmitter power Radiated	±2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	±2.20 dB	(1)
Occupied Bandwidth	±0.01ppm	(1)
Radiated Emission 30~1000MHz	±4.10dB	(1)
Radiated Emission Above 1GHz	±4.32dB	(1)
Conducted Disturbance0.15~30MHz	±3.20dB	(1)

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



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## 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
1	Low channel TX(2412/2422MHz)		
2	Middle channel TX(2437MHz)		
3	High channel TX(2452/2462MHz)		

#### Note:

Transmit by 802.11b with Date rate (1/2/5.5/11)

Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54)

Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)

Transmit by 802.11n (40MHz) with Date rate (13.5/27/40.5/54/81/108/121.5/135)

#### Note:

- 1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 3. The test software is the WiFi Test Tool V1.4.1 which can set the EUT into the individual test modes.



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# 5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure :

E	UT	AE

## **5.2. EQUIPMENT USED IN EUT SYSTEM**

Item	Equipment	Model No.	ID or Specification	Remark
1	Multi-color Smart Table Lamp - WIFI	HS-001A	2AWCBHS-001A	EUT
2	Adapter 1	HJ-0501500W1-US	Input: 100-240V~50-60Hz 0.3A Output: 5V, 1500mA	AE
3	Adapter 2	TPA-46050150UU	Input: 100-240V~50-60Hz 0.3A Output: 5V, 1500mA	AE

## **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power Spectral Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant



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## 6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location	2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Ihai Street, Bao'an District, Shenzhen, Guangdong, China			
Designation Number	N1259			
FCC Test Firm Registration Number	975832			
A2LA Cert. No.	5054.02			
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA			

## **TEST EQUIPMENT OF CONDUCTED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03,2020	Jul. 02, 2021
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

## TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
Power Sensor	Aglient	U2021XA	MY54110007	Jun. 08, 2020	Jun. 07, 2021
2.4GHz Fliter	Micro-tronics	087	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	Weinachel Corp	58-30-33	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	00034609	May. 17, 2019	May. 16, 2021
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2019	May. 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A



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## 7. OUTPUT POWER

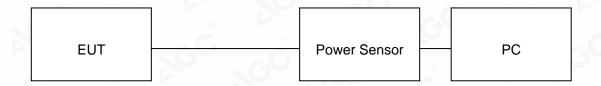
## 7.1. MEASUREMENT PROCEDURE

For average power test:

- 1. Connect EUT RF output port to power sensor through an RF attenuator.
- 2. Connect the power sensor to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.

**Note**: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

## 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)





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## 7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	OUTPUT POWER
TEST MODE	802.11b with data rate 1

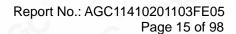
Frequency (GHz)	Average Power (dBm)			Pass or Fail
2.412	15.87	19.39	30	Pass
2.437	15.96	19.51	30	Pass
2.462	15.97	19.51	30	Pass

TEST ITEM	OUTPUT POWER
TEST MODE	802.11g with data rate 6

Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	15.08	22.84	30	Pass
2.437	14.91	22.69	30	Pass
2.462	14.51	22.27	30	Pass

TEST ITEM	OUTPUT POWER	10	100	
TEST MODE	802.11n 20 with data rate 6.5	0		10

	Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
	2.412	12.68	20.25	30	Pass
©	2.437	12.45	20.02	30	Pass
	2.462	11.45	19.00	30	Pass





TEST ITEM	OUTPUT POWER	8	(8)	
TEST MODE	802.11n 40 with data rate 13.5		C.C	

Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.422	12.68	20.19	30	Pass
2.437	12.45	19.92	30	Pass
2.452	11.92	19.42	30	Pass



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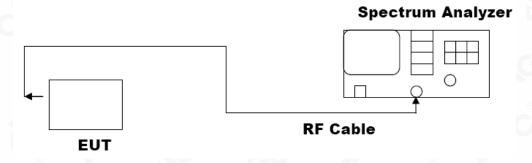
## 8. 6 DB BANDWIDTH

## **8.1. MEASUREMENT PROCEDURE**

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW ≫ × RBW.
- 4. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

## 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)





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## 8.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH	-6	0	
TEST MODE	802.11b with data rate 11	10	GO	

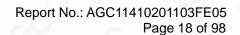
LIMITS AND MEASUREMENT RESULT					
Appliachle Limite		Applicable Limits			
Applicable Limits	Test Data (MHz)				
	Low Channel	10.11	PASS		
>500KHZ	Middle Channel	11.05	PASS		
	High Channel	11.07	PASS		

TEST ITEM	6DB BANDWIDTH	0		
TEST MODE	802.11g with data rate 54		a.C	(8)

LIMITS AND MEASUREMENT RESULT					
		Applicable Limits			
Applicable Limits	Test Data (MHz) Criteria				
	Low Channel	15.14	PASS		
>500KHZ	Middle Channel	15.14	PASS		
	High Channel	15.14	PASS		

TEST ITEM	6DB BANDWIDTH	NO	_ GC
TEST MODE	802.11n 20 with data rate 65		

LIMITS AND MEASUREMENT RESULT						
Applicable Limite		Applicable Limits				
Applicable Limits	Test Data (MHz)		Criteria			
	Low Channel	15.33	PASS			
>500KHZ	Middle Channel	15.31	PASS			
	High Channel	15.14	PASS			





TEST ITEM	6DB BANDWIDTH	©		
TEST MODE	802.11n 40 with data rate 135	NO O	c.C	

	LIMITS AND MEASU	REMENT RESULT		
Amplicable Limite		Applicable Limits		
Applicable Limits	Test Data (MHz)		Criteria	
0 .00	Low Channel	35.36	PASS	
>500KHZ	Middle Channel	35.36	PASS	
5	High Channel	36.36	PASS	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC within 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



## **802.11b TEST RESULT**TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



**802.11g TEST RESULT**TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



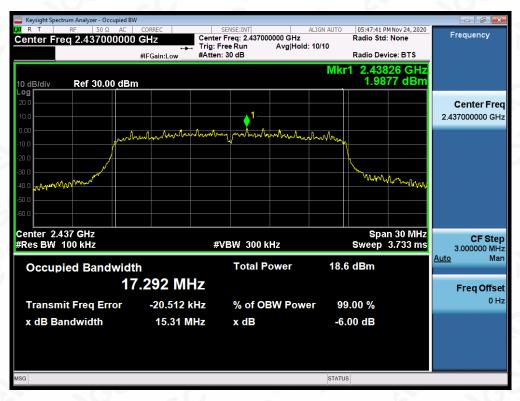
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# **802.11n (20) TEST RESULT**TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



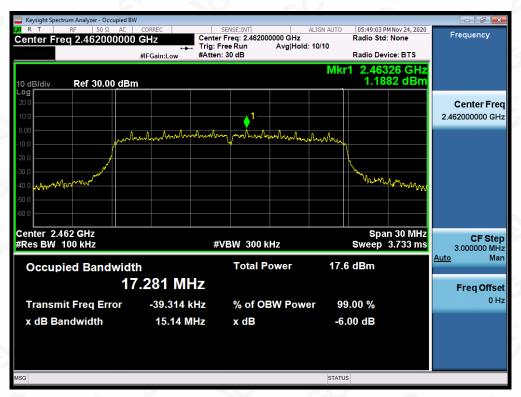
#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



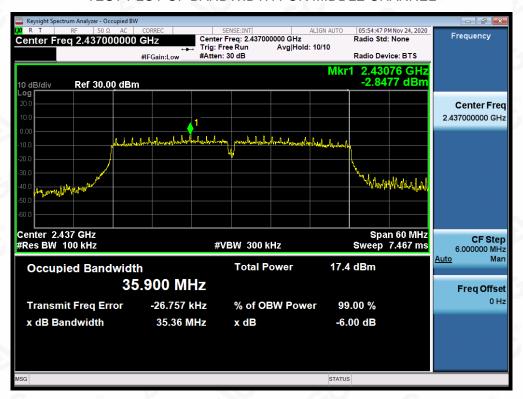
802.11n (40) TEST RESULT
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



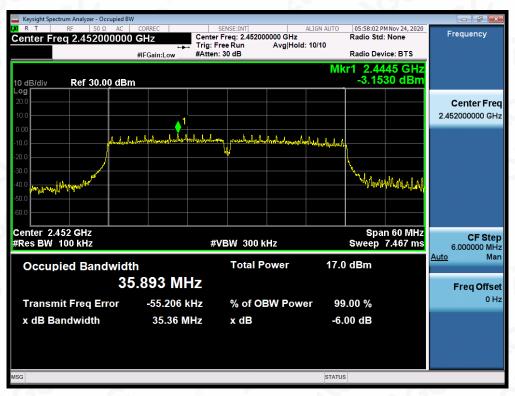
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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## 9. CONDUCTED SPURIOUS EMISSION

#### 9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW>RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW>RBW) are conform to the requirement.

## 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

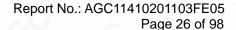
#### 9.3. MEASUREMENT EQUIPMENT USEDJN

The same as described in section 6.

#### 9.4. LIMITS AND MEASUREMENT RESULT

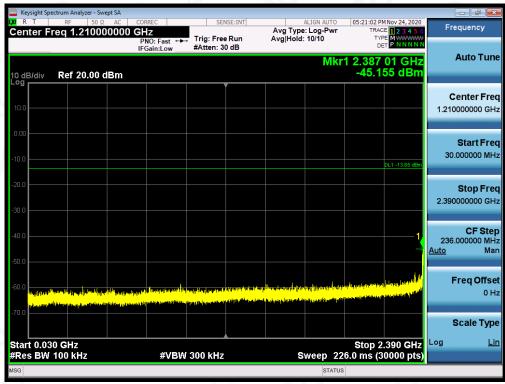
LIMITS AND MEASUREMENT RESULT					
Amplicable Limite	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS			
intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.  In addition, radiation 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))	At least -20dBc than the limit Specified on the TOP Channel	PASS			

Note: The limits reference level is according to the test plot of -6dB bandwidth.



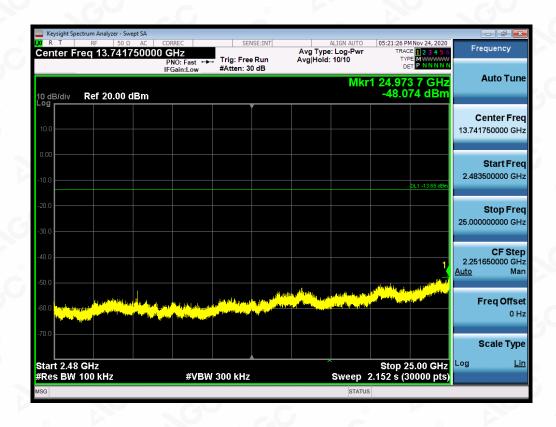


## TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11b FOR MODULATION IN LOW CHANNEL





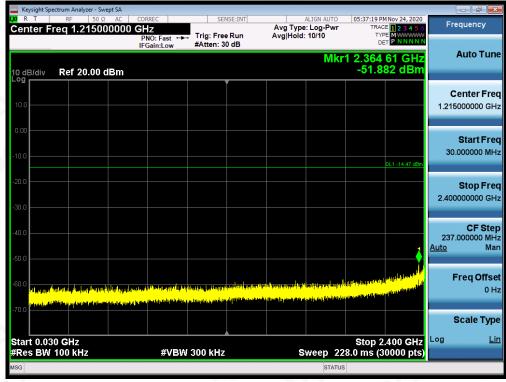




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## TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



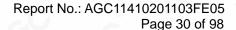




## TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN HIGH CHANNEL

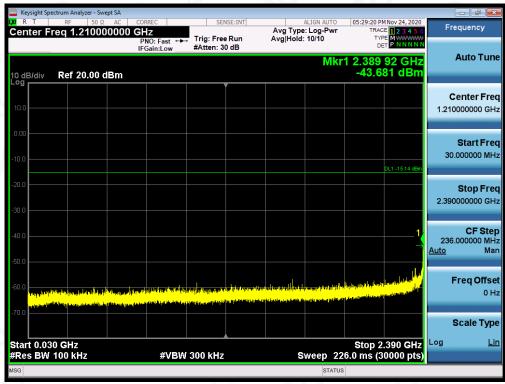






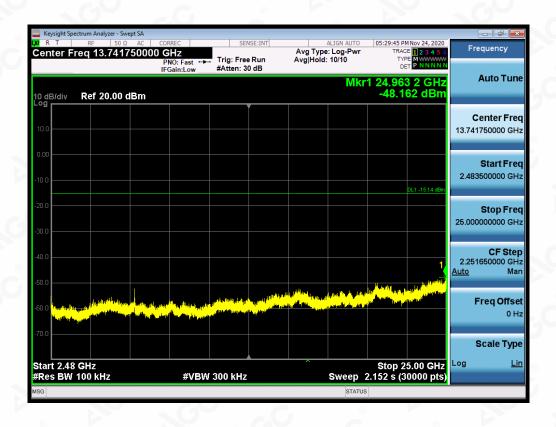


## TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL





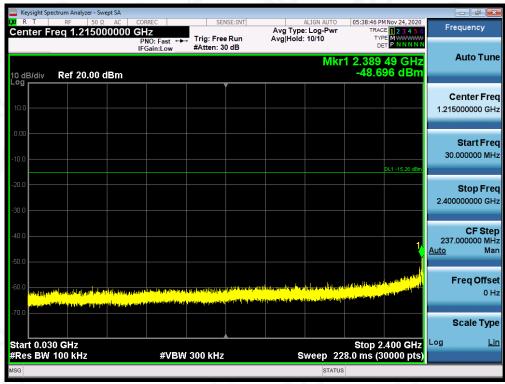


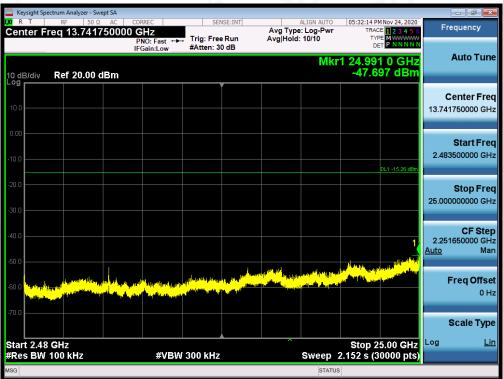


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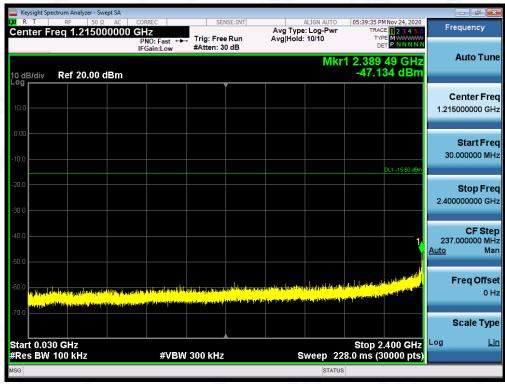
## TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL



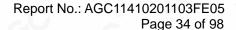




# TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN HIGH CHANNEL

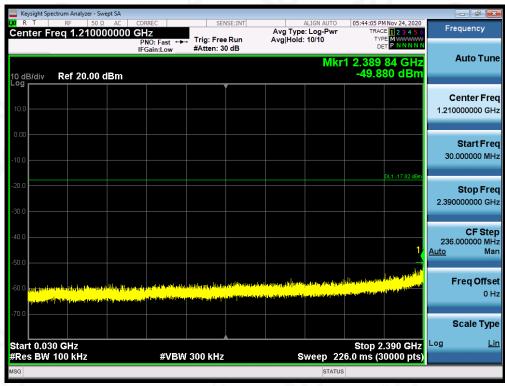






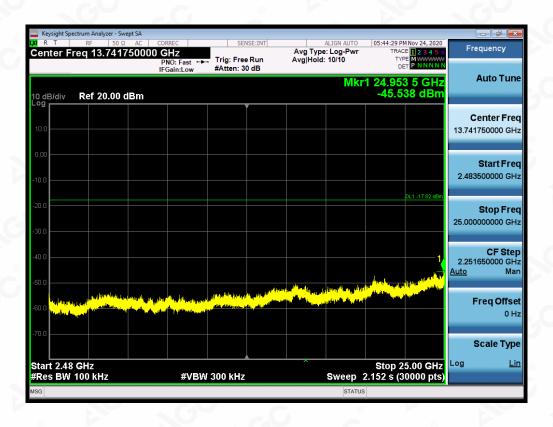


## TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL





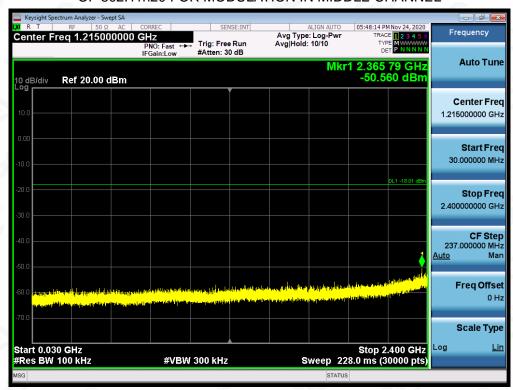


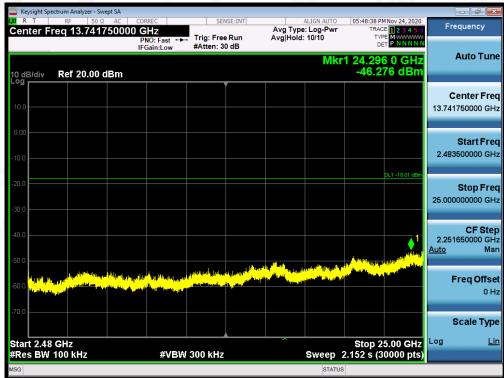


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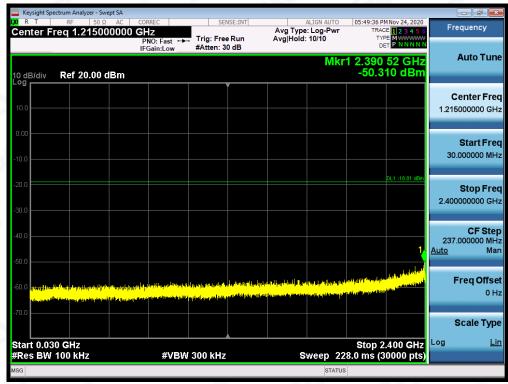
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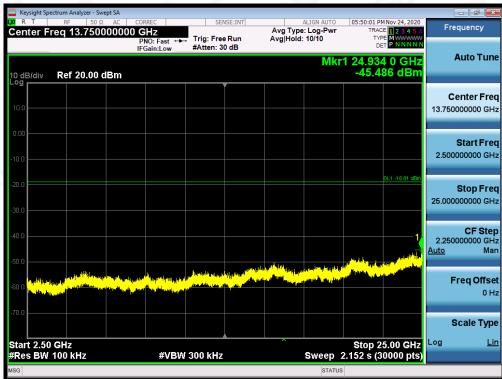


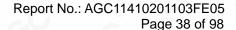




# TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL

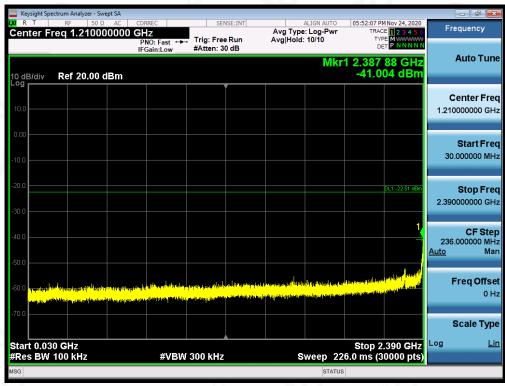








## TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n40 FOR MODULATION IN LOW CHANNEL



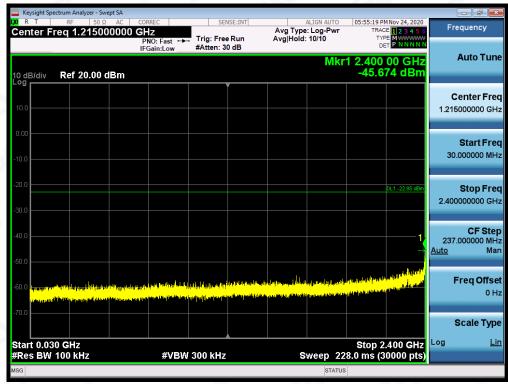


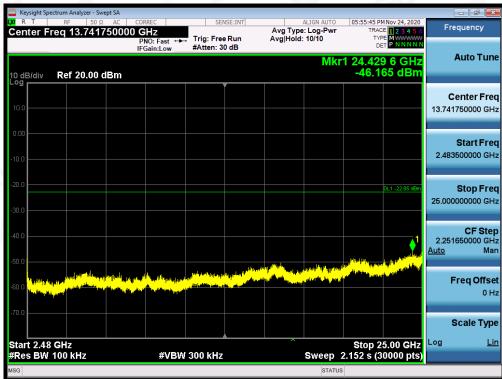






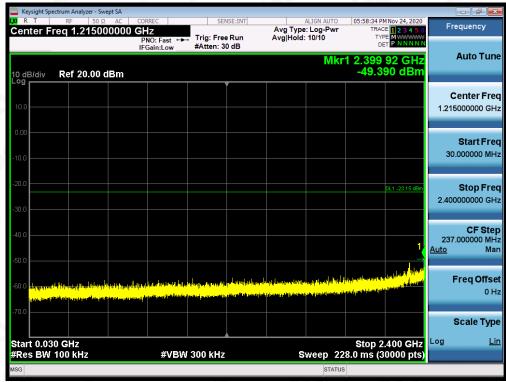
## TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL







## TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN HIGH CHANNEL





Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated

#### emission limits specified.

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## 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

#### **10.1 MEASUREMENT PROCEDURE**

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the ANSI C63.10 (2013) item 11.10 was used in this testing.

## 10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

## **10.3 MEASUREMENT EQUIPMENT USED**

Refer To Section 6.

### **10.4 LIMITS AND MEASUREMENT RESULT**

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11b with data rate 1

Channel No.	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	0.462	-7.78	8	Pass
Middle Channel	0.430	-7.81	8	Pass
High Channel	0.551	-7.69	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY			S
TEST MODE	802.11g with data rate 6	C <sub>1</sub> C	8	(3)

Channel No.	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-1.584	-9.82	8	Pass
Middle Channel	-1.612	-9.85	8	Pass
High Channel	-2.255	-10.49	8	Pass



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TEST ITEM	POWER SPECTRAL DENSITY	
TEST MODE	802.11n 20 with data rate 6.5	0

Channel No.	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-3.854	-12.09	8	Pass
Middle Channel	-4.273	-12.51	8	Pass
High Channel	-5.286	-13.53	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY	
TEST MODE	802.11n 40 with data rate 13.5	

Channel No.	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-7.382	-15.62	8	Pass
Middle Channel	-7.170	-15.41	8	Pass
High Channel	-7.492	-15.73	8	Pass

Note: PSD Standard Measurement = Test Measurement -10Log (20KHz / 3KHz)



## 802.11b TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



## TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

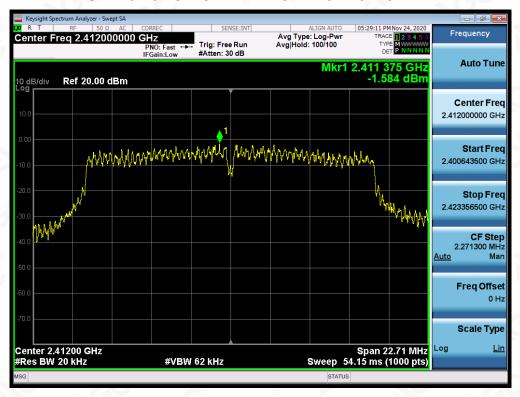




## TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

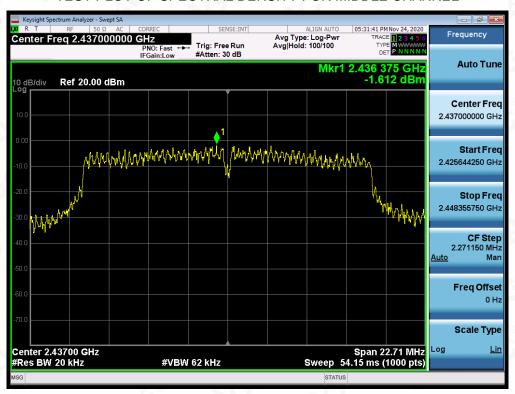


802.11g TEST RESULT
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

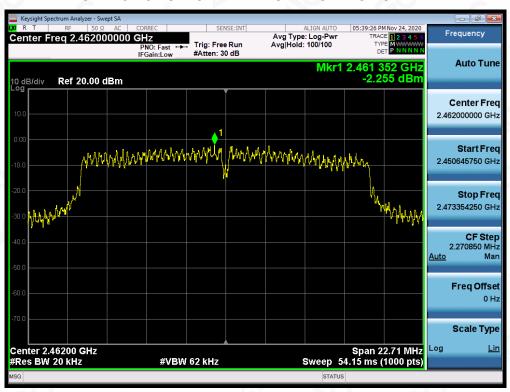




## TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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