

# **FCC Test Report**

Report No.: AGC10648200601FE05

FCC ID	: 2AXBN-CG1
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Wireless Smart Battery Camera
BRAND NAME	: N/A
MODEL NAME	: CG1, CG1NF, CG1NS, CG1NA
APPLICANT	: SHENZHEN CYTON Intelligence Technology CO.,LTD
DATE OF ISSUE	: Aug. 10, 2020
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15.247
REPORT VERSION	· V10

# 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	/	Aug. 10, 2020	Valid	Initial Release

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# **1. VERIFICATION OF CONFORMITY**

Applicant	SHENZHEN CYTON Intelligence Technology CO.,LTD
Address	F/L 601, Building K, Jinchangda, No. 2000089, Shangwei industrial zone, Zhangkengjing community, Guanhu street, Longhua District, Shenzhen, China
manufacturer	SHENZHEN CYTON Intelligence Technology CO., LTD
Address	F/L 601, Building K, Jinchangda, No. 2000089, Shangwei industrial zone, Zhangkengjing community, Guanhu street, Longhua District, Shenzhen, China
Factory	SHENZHEN CYTON Intelligence Technology CO., LTD
Address	F/L 601, Building K, Jinchangda, No. 2000089, Shangwei industrial zone, Zhangkengjing community, Guanhu street, Longhua District, Shenzhen, China
Product Designation	Wireless Smart Battery Camera
Brand Name	N/A
Test Model	CG1
Series Model	CG1NF, CG1NS, CG1NA
Difference description	CG1 is fully functional, CG1NF does not carry white light, CG1NS does not carry G_SENSOR, CG1NA does not carry white light and G_SENSOR
Date of test	Jul. 27, 2020 to Aug. 10, 2020
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

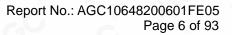
We hereby certify that:

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	Sky dong	
No No	Sky Dong (Project Engineer)	Aug. 10, 2020
Reviewed By	Max 2hang	SC SG
	Max Zhang (Reviewer)	Aug. 10, 2020
Approved By	Formestics	
	Forrest Lei (Authorized Officer)	Aug. 10, 2020

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# 2. GENERAL INFORMATION

# 2.1. PRODUCT DESCRIPTION

The EUT is designed as "Wireless Smart Battery Camera". 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

Operation Frequency	2.412 GHz ~ 2.462GHz
Output Power(Average)	IEEE 802.11b:13.49dBm; IEEE 802.11g:12.96dBm; IEEE 802.11n(20):12.99dBm; IEEE 802.11n(40):12.94dBm
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	11
Hardware Version	V5
Software Version	0.1.5
Antenna Designation	hardware antenna
Antenna Gain	2.35dBi
Power Supply	DC 5V by adapter or DC 3.6V by battery

# 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
		2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
	7	2442 MHZ
G <sup>C</sup> C	8	2447 MHZ
	9	2452 MHZ
0 0	10	2457 MHZ
	11	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	Nss	Modulation	R NBPSC NCBPS NDBPS		R		ata Mbps) asGl			
Index					20MHz	20MHz 40MHz 20		20MHz 40MHz		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	<sup>©</sup> 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 carrie	
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: 2AXBN-CG1** 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 transmissio n 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**

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in

- measurement" (GUM) published by CISPR and ANSI.
- Uncertainty of Conducted Emission,  $Uc = \pm 3.2 dB$
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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# 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal operating
Transmit Transmit	by 802.11b with Date rate (1/2/5.5/11) by 802.11g with Date rate (6/9/12/18/24/36/48/54) by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65) 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 SecureCRTPortable\_V7.0.4.537 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 :

EUT

AE

# 5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Equipment Model No.		Remark
1	Wireless Smart Battery Camera	CG1	2AXBN-CG1	EUT
2	Adapter	TY0500100E1MN	DC 5V	AE
3	Charger line	G258	N/A	A.E
4	TF card	M203	N/A	A.E
5	Control Box	N/A	USB-TTL	A.E

# 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	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China		
Designation Number	CN1259		
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, 2022
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
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, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
Power sensor	Aglient	U2021XA	MY54110007	Sep. 10, 2019	Sep. 09, 2020
2.4GHz Fliter	Micro-tronics	087	N/A	Feb. 26, 2020	Feb. 25, 2021
Attenuator	Weinachel Corp	58-30-33	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
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	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 20, 2019	Sep. 19, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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# 7. OUTPUT POWER

#### 7.1. MEASUREMENT PROCEDURE

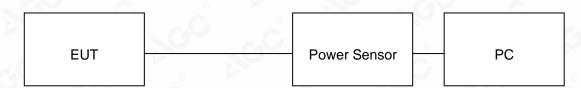
For average power test:

- 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)

# AVERAGE POWER SETUP



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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)	Applicable Limits (dBm)	Pass or Fail
2.412	13.49	30	Pass
2.437	13.20	30	Pass
2.462	13.25	30	Pass

TEST ITEM	OUTPUT POWER	6		No.
TEST MODE	802.11g with data rate 6	SC	° C	©

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	12.73	30	Pass
2.437	12.96	30	Pass
2.462	12.77	30	Pass

TEST ITEM	OUTPUT POWER	8		No.
TEST MODE	802.11n 20 with data rate 6.5	GC	Ø	6

Frequency (GHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	12.69	30	Pass
2.437	12.99	30	Pass
2.462	12.58	30	Pass

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Frequency	Average Power	Applicable Limits	<u> </u>
TEST MODE	802.11n 40 with data rate 13.5		6
TEST ITEM	OUTPUT POWER		

(GHz)	dBm)	(dBm)	Pass or Fail
2.422	12.94	30	Pass
2.437	12.80	30	Pass
2.452	12.70	30	Pass

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# 8.6 DB BANDWIDTH

#### **8.1. MEASUREMENT PROCEDURE**

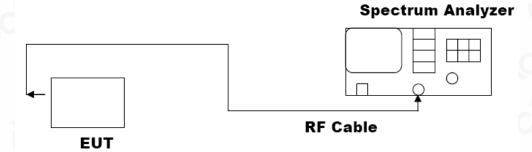
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator

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
TEST MODE	802.11b with data rate 11

#### LIMITS AND MEASUREMENT RESULT

Appliachte Limite		Applicable Limits	
Applicable Limits	Test Da	ta (MHz)	Criteria
	Low Channel	9.066	PASS
>500KHZ	Middle Channel	9.058	PASS
	High Channel	9.060	PASS

TEST ITEM	6DB BANDWIDTH	0	
TEST MODE	802.11g with data rate 54		8

	LIMITS AND MEASU	REMENT RESULT	
Applicable Limite		Applicable Limits	
Applicable Limits	Test Data	a (MHz)	Criteria
	Low Channel	16.56	PASS
>500KHZ	Middle Channel	16.55	PASS
	High Channel	16.55	PASS

TEST ITEM	6DB BANDWIDTH			1
TEST MODE	802.11n 20 with data rate 65	e C	6	

	LIMITS AND MEASU	REMENT RESULT	
Applicable Limite		Applicable Limits	
Applicable Limits	Test Data	(MHz)	Criteria
0	Low Channel	17.76	PASS
>500KHZ	Middle Channel	17.75	PASS
L' NO	High Channel	17.72	PASS

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 E-mail: agc@agc-cert.com



TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11n 40 with data rate 135
0	LIMITS AND MEASUREMENT RESULT

Anniischis Limite		Applicable Limits	
Applicable Limits	Test Data	a (MHz)	Criteria
	Low Channel	36.49	PASS
>500KHZ	Middle Channel	36.48	PASS
	High Channel	36.48	PASS

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# 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



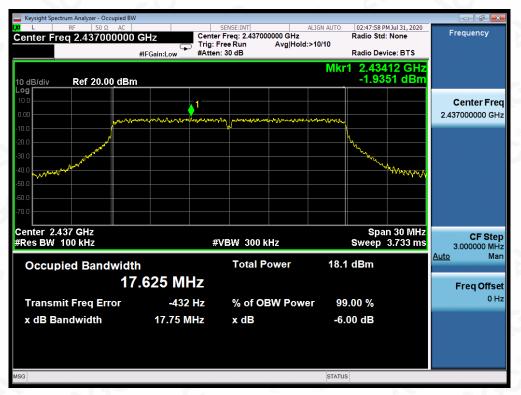
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# 802.11n (20) TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



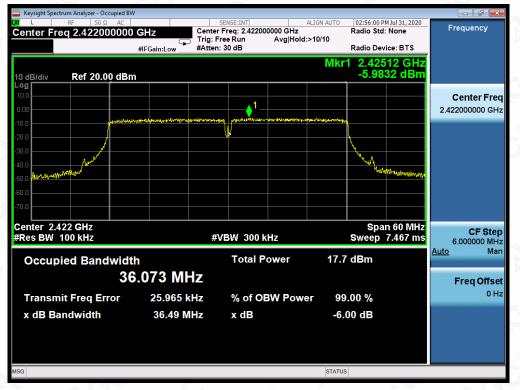
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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

# 802.11n (40) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

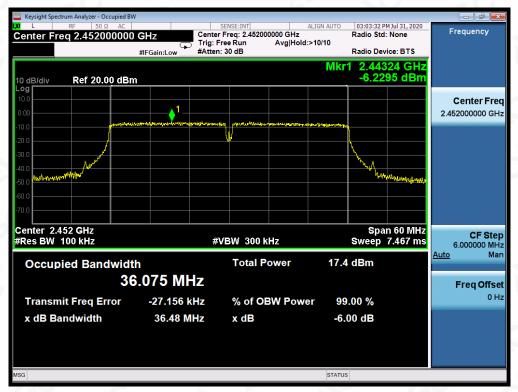


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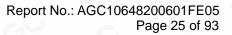


#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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.

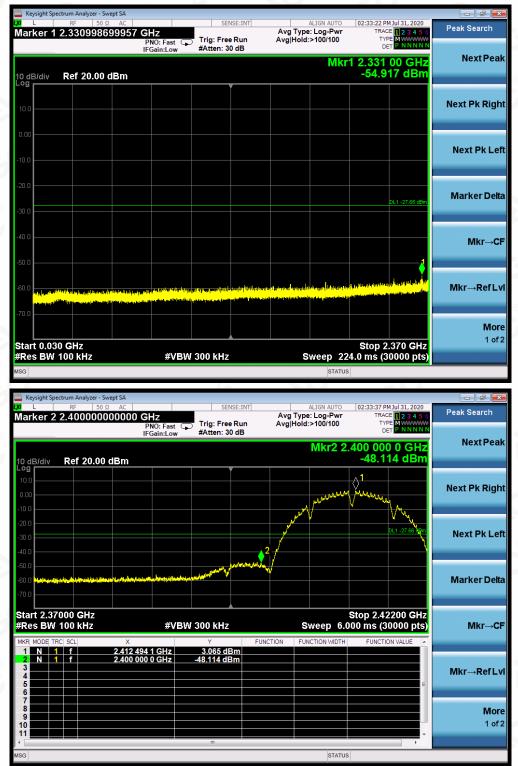
#### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEA	SUREMENT RESULT	
Angliaghta Limite	Measurement Res	ult
Applicable Limits	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum	At least -30dBc 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 30 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 -30dBc than the limit Specified on the TOP Channel	PASS

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

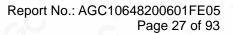
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#### TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11b FOR MODULATION IN LOW CHANNEL

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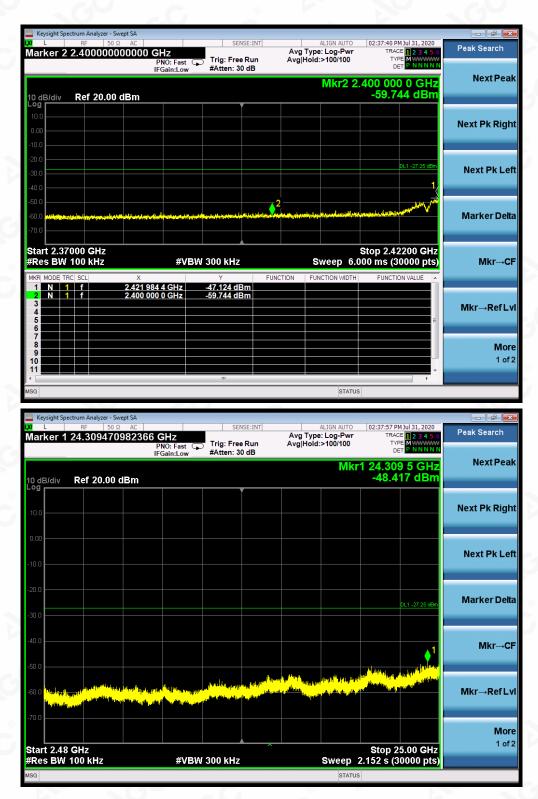
#### TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL



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#### Report No.: AGC10648200601FE05 Page 28 of 93





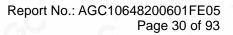
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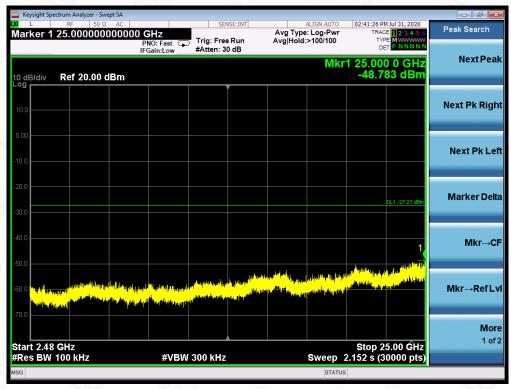
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN HIGH CHANNEL

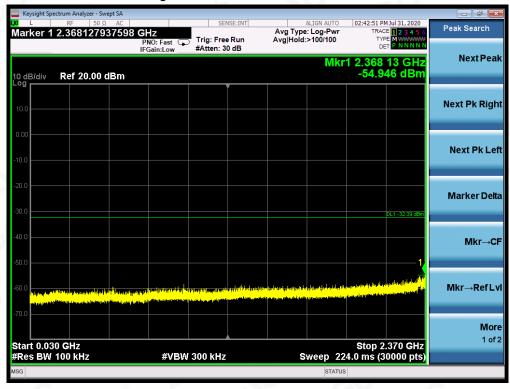
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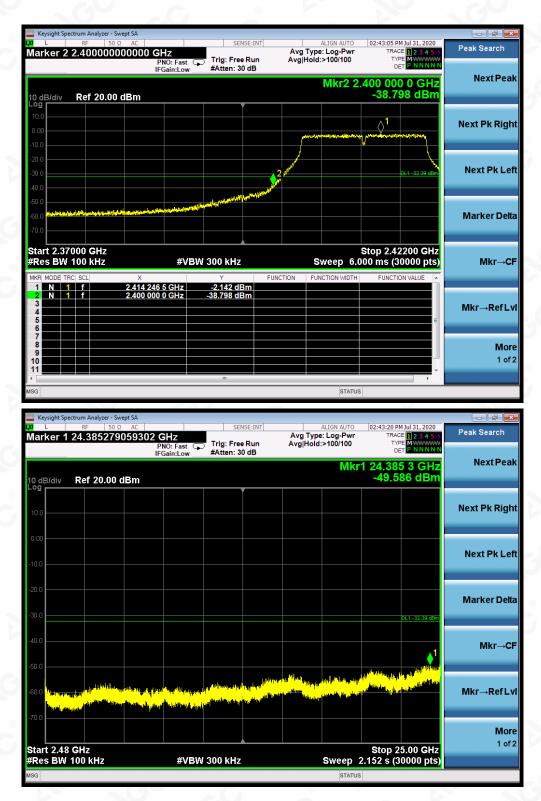
## TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL



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#### Report No.: AGC10648200601FE05 Page 31 of 93





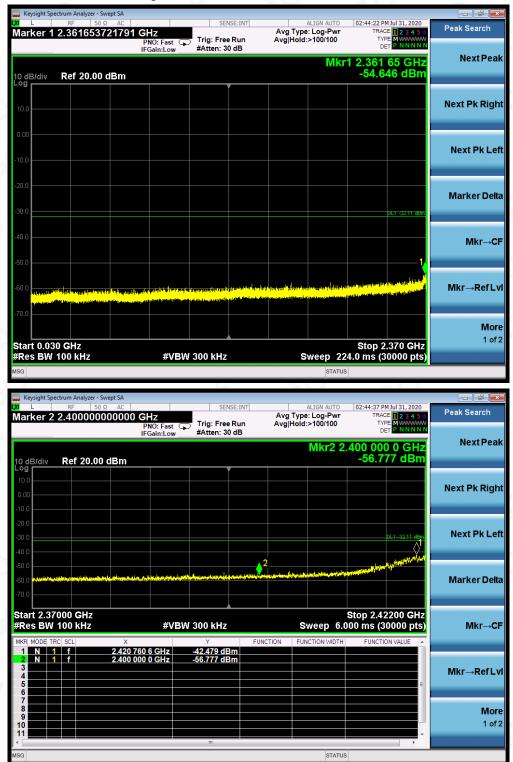
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#### TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11g FOR MODULATION IN MIDDLE CHANNEL

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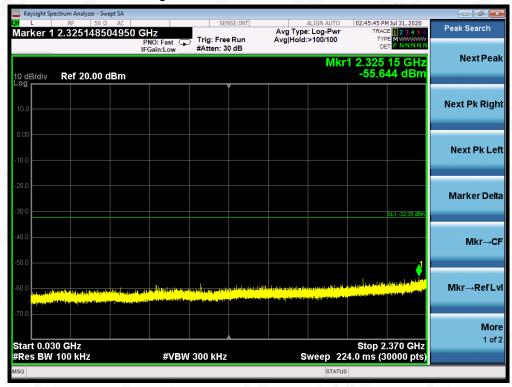
#### Report No.: AGC10648200601FE05 Page 33 of 93





# TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE

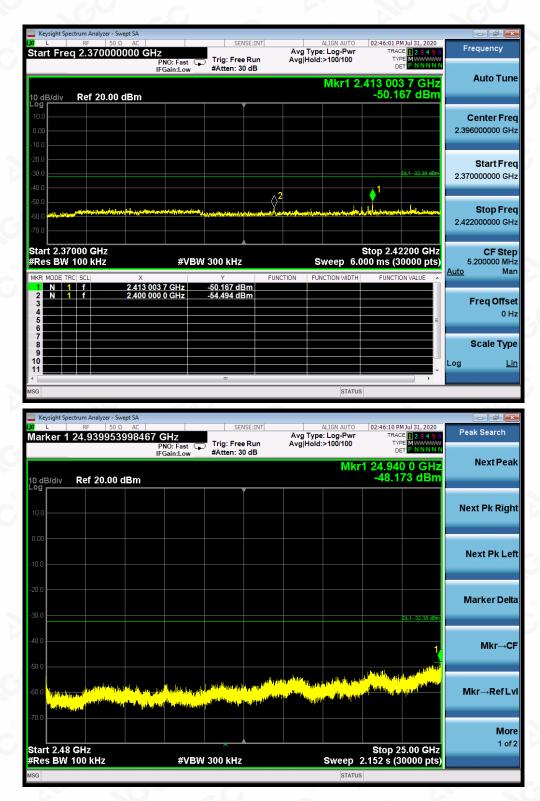
OF 802.11g FOR MODULATION IN HIGH CHANNEL



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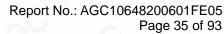
#### Report No.: AGC10648200601FE05 Page 34 of 93



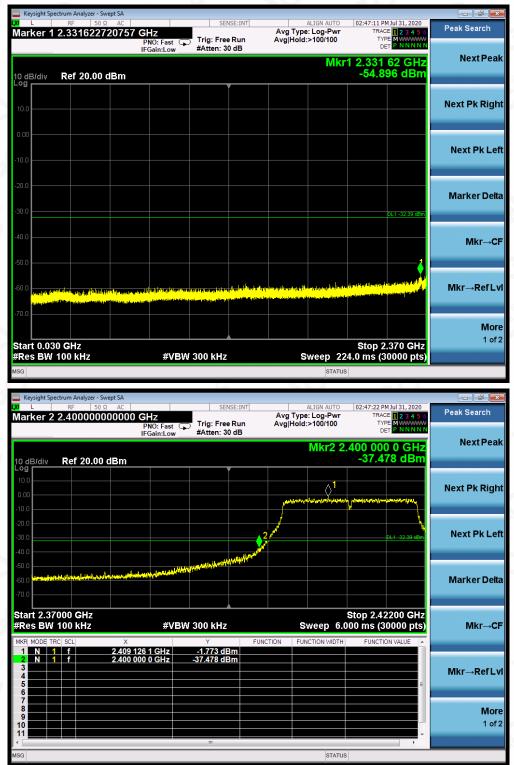


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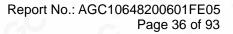






#### TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n20 FOR MODULATION IN LOW CHANNEL

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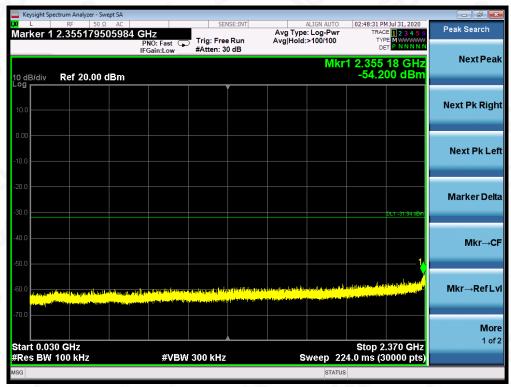






#### TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE

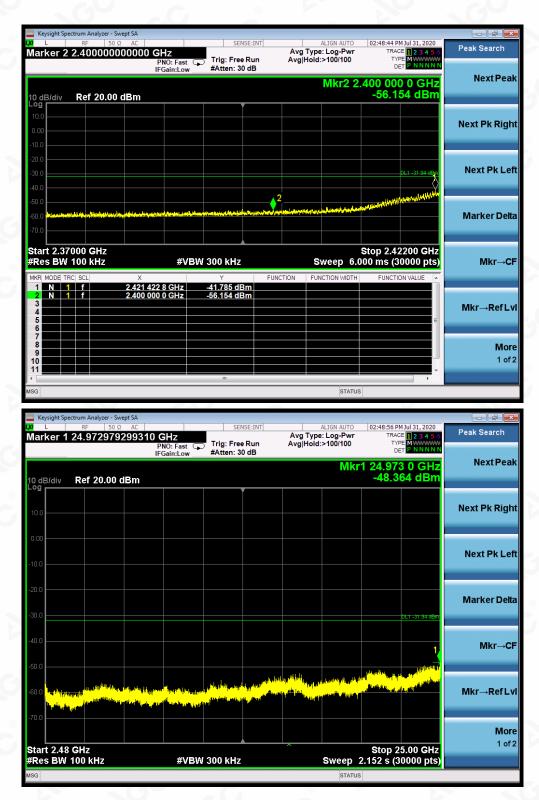
OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL



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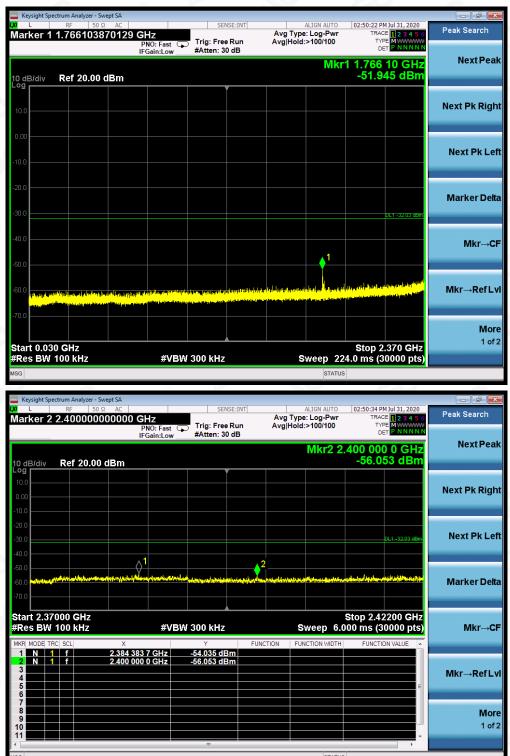
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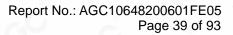
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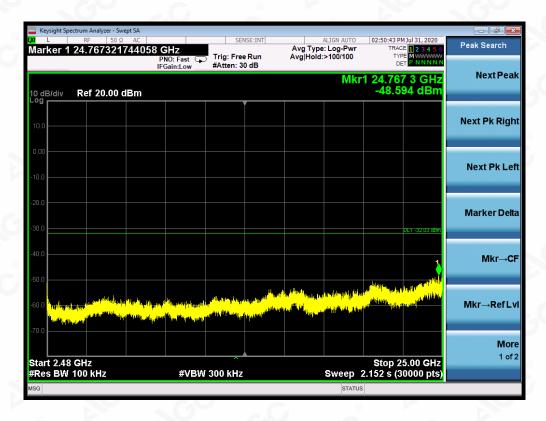


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n20 FOR MODULATION IN HIGH CHANNEL

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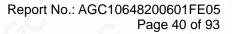




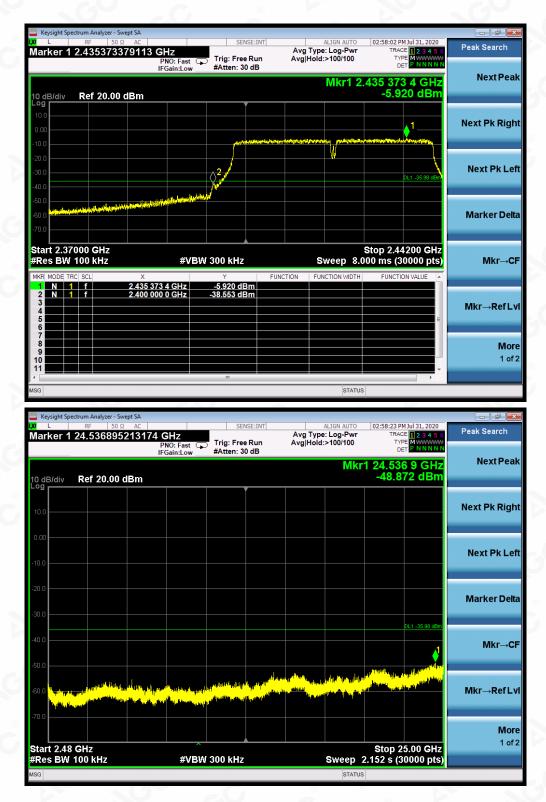
#### TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11n40 FOR MODULATION IN LOW CHANNEL



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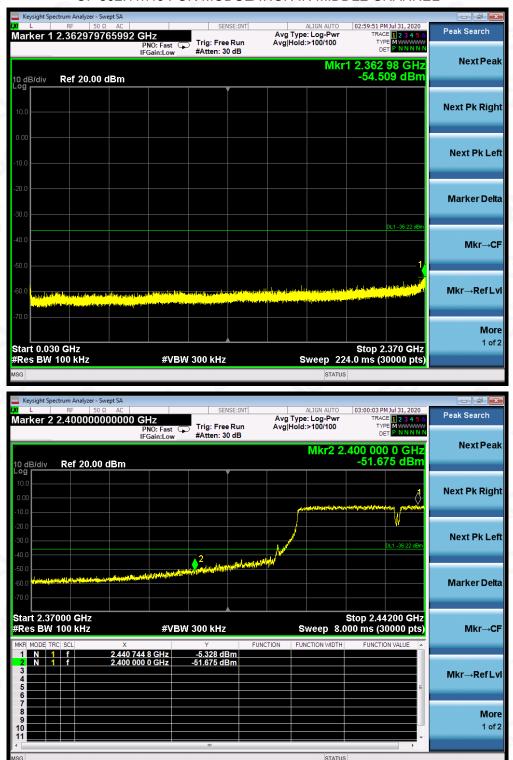
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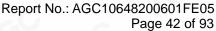
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL

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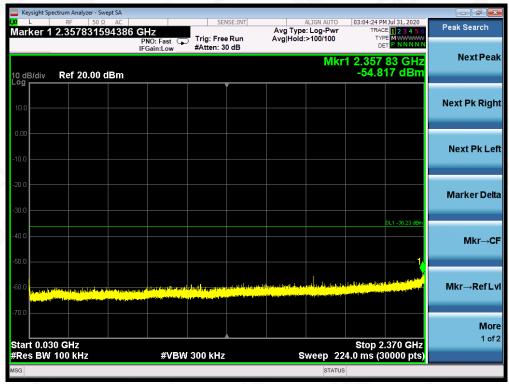


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## TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE

OF 802.11n40 FOR MODULATION IN HIGH CHANNEL

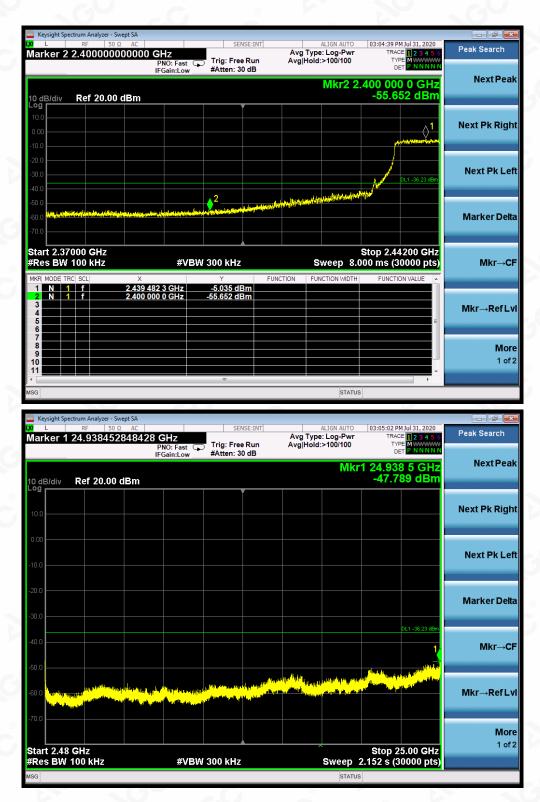
#VBW 300 kHz



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#### Report No.: AGC10648200601FE05 Page 43 of 93





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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 AVGPSD-1 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)	Limit (dBm/3kHz)	Result
Low Channel	-2.809	8	Pass
Middle Channel	-2.438	8	Pass
High Channel	-2.485	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY		S
TEST MODE	802.11g with data rate 6	©.	6

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-5.063	8	Pass
Middle Channel	-4.994	8	Pass
High Channel	-5.854	8	Pass

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#### Report No.: AGC10648200601FE05 Page 45 of 93

TEST ITEM	POWER SPECTRAL DENSITY	®		20	
TEST MODE	802.11n 20 with data rate 6.5	SC.	-G	3	
	0				

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-6.089	8	Pass
Middle Channel	-5.628	8	Pass
High Channel	-6.024	8	Pass

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

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-8.697	8	Pass
Middle Channel	-8.313	8	Pass
High Channel	-8.312	8	Pass

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

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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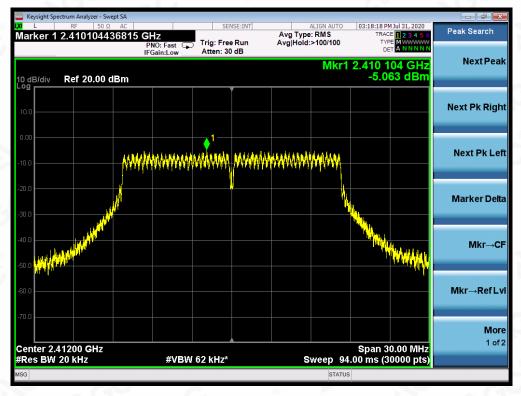




#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

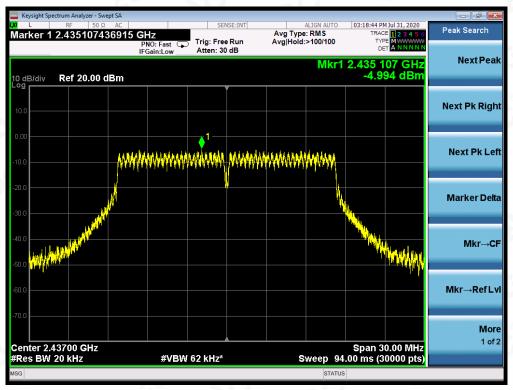
#### 802.11g TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



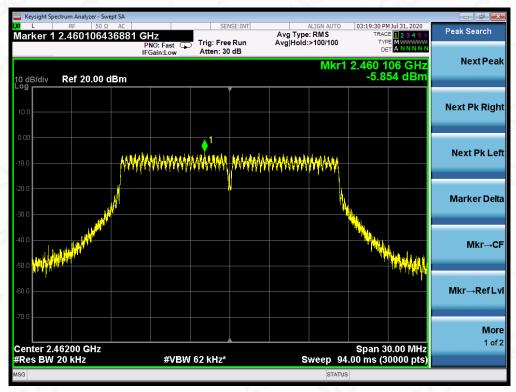
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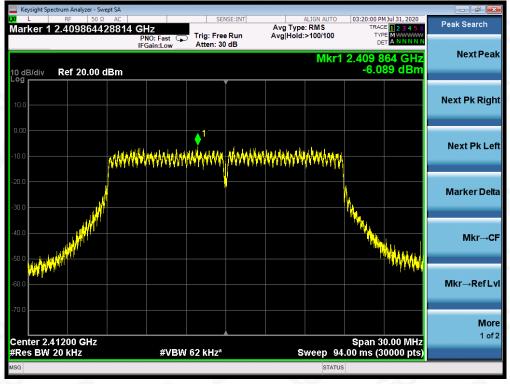
### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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



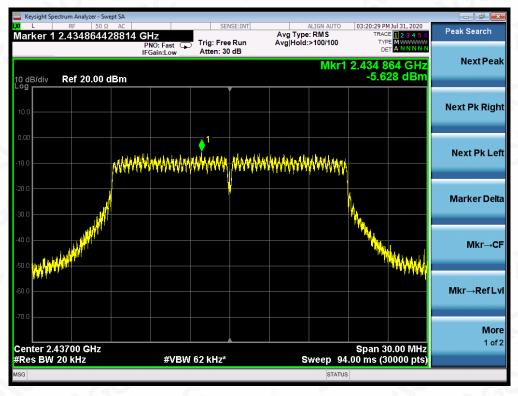
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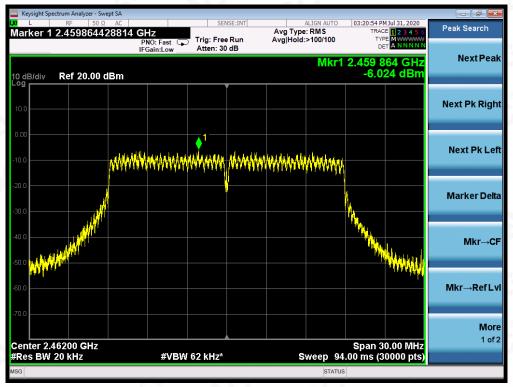
# 802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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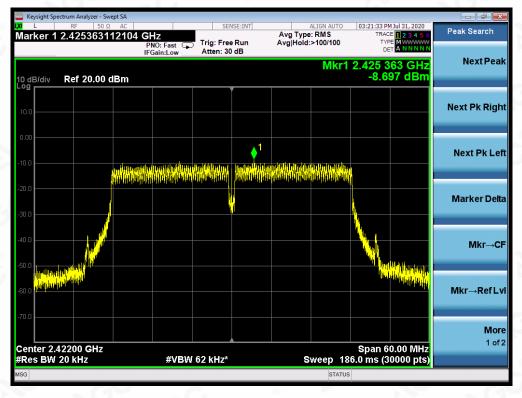




### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

#### 802.11n 40 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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