

FCC Test Report

Report No.: AGC07716190701FE05

FCC ID	: 2AFENWK03A
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: LED Projector
BRAND NAME	: XGIMI
MODEL NAME	WK03A, WK04A, WK05A, WK06A, WK07A, WK08A, WK09A, WK10A, WK11A, WK12A, WK13A, WK14A
APPLICANT	: Chengdu XGimi Technology Co., Ltd.
DATE OF ISSUE	: Sep. 04, 2019
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	/	Sep. 04, 2019	Valid	Initial Release



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1. VERIFICATION OF CONFORMITY

Applicant	Chengdu XGimi Technology Co., Ltd.
Address	Building A4, Tianfu Software Park, High-tech zone, Chengdu, Sichuan, China 610041
Manufacturer	Chengdu XGimi Technology Co., Ltd.
Address	Building A4, Tianfu Software Park, High-tech zone, Chengdu, Sichuan, China 610041
Factory 1	Chengdu Guangqing Technology Co., Ltd.
Address	No.104, Putian Cable Park, No.18 Xinhang Road, West Hi-Tech district, Chengdu, Sichuan, China
Factory 2	TCL KING ELECTRICAL APPLIANCE (CHENG DU)CO., LTD.
Address	No.18 Kexin Road, Hi-Tech Development Zone (West Park), Chengdu, Sichuan
Factory 3	Yibin XGIMI Optoelectronics Co., Ltd.
Address	 (1) A3, Intelligent Terminal Industrial Park, Cuiping Disrict, Yibin. (2) Room 328, Enterprise Service Center, No.17, Section 3, West Section of Changjiang North Road, Lingang Economic and Technological Development Zone, Yibin
Product Designation	LED Projector
Brand Name	XGIMI
Test Model	WK03A
Series Model	WK04A, WK05A, WK06A, WK07A, WK08A, WK09A, WK10A, WK11A, WK12A, WK13A, WK14A
Difference description	All the same except for the model name and different appearance color
Date of test	Jul. 29, 2019 to Sep. 03, 2019
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF
Mar handler and the dealer	

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	praven.li		
	Draven Li (Project Engineer)	Sep. 03, 2019	
Reviewed By	Max Zhang		
	Max Zhang (Reviewer)	Sep. 04, 2019	
Approved By	Forvest in So		
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AGC CO	Attestation of Global Compliance(Shenzhen)	Co.,Ltd.	
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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "LED Projector". 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	IEEE 802.11b:18.12dBm; IEEE 802.11g:15.65dBm; IEEE 802.11n(20):20.03dBm; IEEE 802.11n(40):16.41dBm
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
Number of channels	
Hardware Version	V03
Software Version	V1.0.0
Antenna Designation	FPC Antenna
Number of transmit chain	2(802.11b/g/n20/n40 all used two antennas,but 802.11b/g support SISO and 802.11n20/n40 support MIMO)
Antenna Gain	3.97dBi
Power Supply	DC 11.01V by battery or DC 19V by adapter

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	。 1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
2400~2483.5MHZ	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	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





2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Nss Modulation	R	NBPSC	NCBPS		NDBPS		Data rate(Mbps) 800nsGI	
					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	<u> </u>	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: 2AFENWK03A** 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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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 SecureCRTSecure_V7.0.0.326 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 1:

EUT	

AE

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	LED Projector	WK03A	2AFENWK03A	EUT
3	Adapter	HKA06519034-6J	Input: AC 100-240V, 50/60Hz, 1.5A Output: DC 19V, 4.74A	Market with EUT
4	Loudspeaker			AE
5	PC	Xiaomi	Air 13.3	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	§15.247 Conducted Spurious Emission	
§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 Commu 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	Equipment Manufacturer		S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 10, 2019	Jun. 09, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 10, 2019	Jun. 09, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2019	Feb. 26, 2020
Attenuator	ZHINAN	E-002	N/A	Aug. 26, 2019	Aug. 25, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019



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7. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

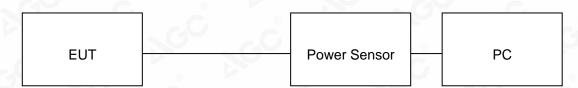
For average power test:

- 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 Chain 1 (dBm)	Average Power Chain 2 (dBm)	Average Power Total (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	18.12	17.98	N/A	30	Pass
2.437	17.96	18.05	N/A	30	Pass
2.462	17.88	17.90	N/A	30	Pass

TEST ITEM	OUTPUT POWER	0		
TEST MODE	802.11g with data rate 6	NOV.	C,O	0

Frequency (GHz)	Average Power Chain 1 (dBm)	Average Power Chain 2 (dBm)	Average Power Total (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	15.65	15.49	N/A	30	Pass
2.437	15.42	15.36	N/A	30	Pass
2.462	15.58	15.44	N/A	30	Pass

TEST ITEM	OUTPUT POWER	©	6	
TEST MODE	802.11n 20 with data rate 6.5			0

Frequency (GHz)	Average Power Chain 1 (dBm)	Average Power Chain 2 (dBm)	Average Power Total (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	13.88	13.79	16.85	30	Pass
2.437	13.76	13.72	16.75	30	Pass
2.462	13.81	18.85	20.03	30	Pass



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2.437

2.452

13.22

13.38

Pass

Pass

30

30

TEST ITEM	C	UTPUT POWER	50	.C			
TEST MODE	8	802.11n 40 with data rate 13.5					
Frequency (GHz)	Average Power Chain 1 (dBm)	Average Power Chain 2 (dBm)	Average Power Total (dBm)	Applicable Limits (dBm)	Pass or Fail		
2.422	13.45	13.35	16.41	30	Pass		

13.40

13.29

16.32

16.35



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8.6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

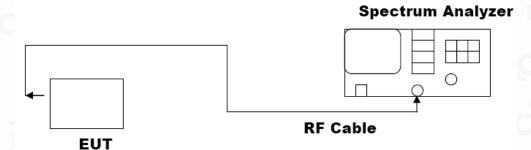
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator

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 \ge 3×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

Applicable Limite		Applicable Limits	
Applicable Limits	Test Data	a (MHz)	Criteria
	Low Channel	9.560	PASS
>500KHZ	Middle Channel	9.093	PASS
	High Channel	9.098	PASS

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

	LIMITS AND MEASU	REMENT RESULT	
Annliachta Limita		Applicable Limits	
Applicable Limits	Test Data	a (MHz)	Criteria
	Low Channel	15.13	PASS
>500KHZ	Middle Channel	15.10	PASS
	High Channel	15.13	PASS

TEST ITEM	6DB BANDWIDTH		200	00
TEST MODE	802.11n 20 with data rate 65	ŝ	0	

	LIMITS AND MEASU	REMENT RESULT	
Appliachla Limita		Applicable Limits	
Applicable Limits	Test Data	a (MHz)	Criteria
	Low Channel	15.13	PASS
>500KHZ	Middle Channel	15.11	PASS
De sou	High Channel	15.11	PASS



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TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11n 40 with data rate 135
6	

	LIMITS AND MEASU	JREMENT RESULT	
Applicable Limite		Applicable Limits	
Applicable Limits	Test Dat	a (MHz)	Criteria
	Low Channel	35.13	PASS
>500KHZ	Middle Channel	35.09	PASS
C A L	High Channel	35.11	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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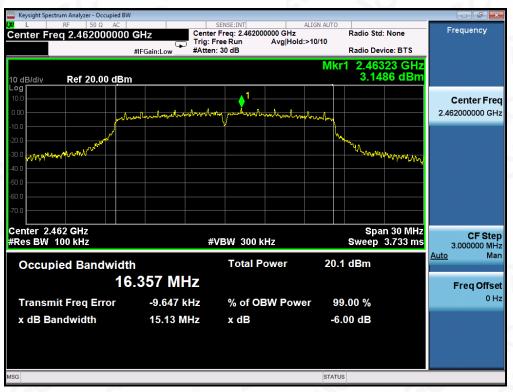
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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Center Freq: 2.412000000 GHz Trig: Free Run Avg|Hold:>10/10 #Atten: 30 dB Frequency Radio Std: None Center Freq 2.412000000 GHz #IFGain:Low Radio Device: BTS 2.41323 GHz 2.2255 dBm Mkr1 Ref 20.00 dBm 10 dB **Center Frea** 2.412000000 GHz Min ~ 100 Span 30 MHz Sweep 3.733 ms Center 2.412 GHz #Res BW 100 kHz CF Step 3.000000 MHz #VBW 300 kHz Ma <u>Auto</u> **Total Power** 19.3 dBm **Occupied Bandwidth** 17.518 MHz **Freq Offset** 0 Hz -13.057 kHz % of OBW Power 99.00 % Transmit Freq Error x dB Bandwidth 15.13 MHz x dB -6.00 dB

802.11n (20) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





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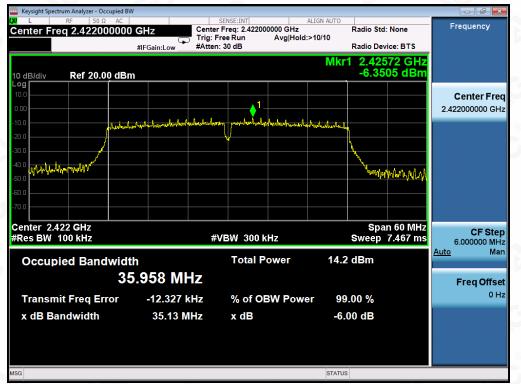
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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

802.11n (40) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





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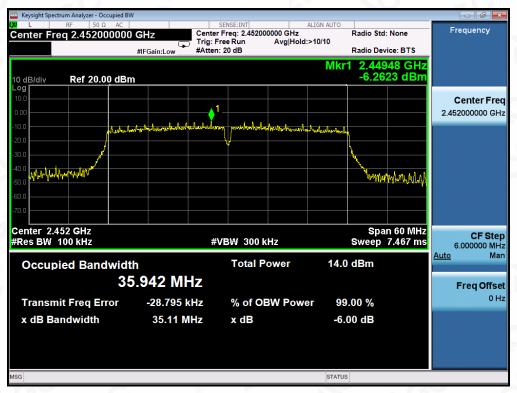
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

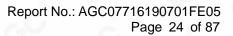
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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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 USED

The same as described in section 6.

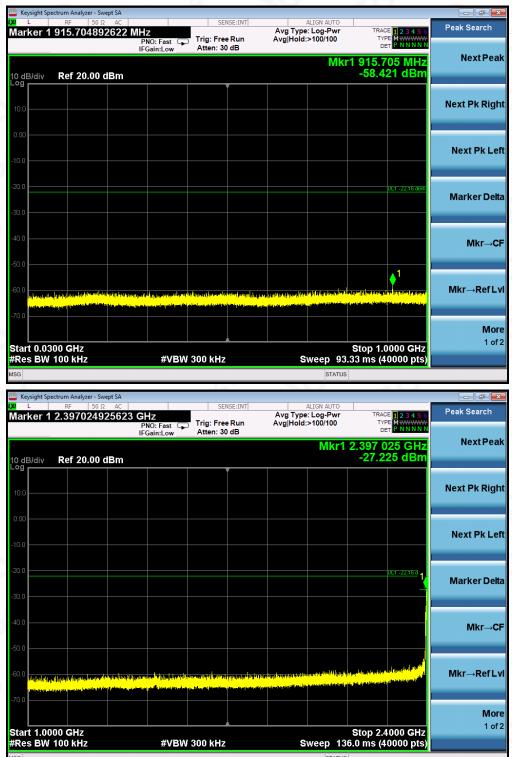
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEAS	SUREMENT RESULT		
	Measurement Result		
Applicable Limits	Test Data	Criteria	
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -30dBc than the limit Specified on the BOTTOM Channel	PASS	
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	



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

Attestation of Global Compliance

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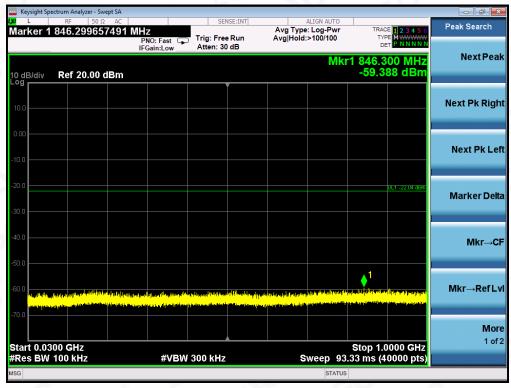
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

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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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Keysight Spectrum Analyzer - Swept SA L RF 50 Ω AC		SENSE:INT	ALIGN AUTO		Peak Search
larker 1 2.396674916873	B GHz PNO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN	r eak Search
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tant 1.0000 GHZ					
Res BW 100 kHz	#VBW	300 kHz	Sweep 13 STATUS	6.0 ms (40000 pts)	
Res BW 100 kHz	#VBW		STATUS	6.0 ms (40000 pts)	
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept SA L RF 50 Ω AC		SENSE:INT	STATUS ALIGN AUTO Avg Type: Log-Pwr	6.0 ms (40000 pts)	
Res BW 100 kHz G Keysight Spectrum Analyzer - Swept SA L RF 50 Ω AC		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search
Res BW 100 kHz g Keysight Spectrum Analyzer - Swept SA L RF [50 Ω AC] arker 1 4.874249156229	9 GHz PNO: Fast 😱	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search
Res BW 100 kHz g keysight Spectrum Analyzer - Swept SA L RF arker 1 4.874249156229 0 dEl/div Ref 20.00 dBm	9 GHz PNO: Fast 😱	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search
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Res BW 100 kHz g Keysight Spectrum Analyzer - Swept SA RF 50 Q arker 1 4.874249156229 0 dEJ/div Ref 20.00 dBm 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 GHz PNO: Fast 😱	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Pe Next Pk Rig Next Pk L Marker De
Res BW 100 kHz IG IG IG IC RF IC RF IC RF IC Ref 20.00 dBm IC IC IC Ref 20.00 dBm IC IC IC	9 GHz PNO: Fast 😱	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Pe Next Pk Rig Next Pk L Marker De
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Res BW 100 kHz Image: Sectrum Analyzer - Swept SA Image: Imag	9 GHz PNO: Fast 😱	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Pe Next Pk Rig Next Pk L Marker De
Res BW 100 kHz xg xg <td>9 GHz PNO: Fast 😱</td> <td>SENSE:INT</td> <td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100</td> <td>6.0 ms (40000 pts)</td> <td>Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→Ref I</td>	9 GHz PNO: Fast 😱	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→Ref I
Res BW 100 kHz IG IG IC RF 50 Q AC Iarker 1 4.874249156229 Iarker 2 0.00 dBm Image: Im	9 GHz PNO: Fast 😱	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→Ref
Res BW 100 kHz IG .Keysight Spectrum Analyzer - Swept SA L RF SO Q AC larker 1 4.874249156229 0 dB/div Ref 20.00 dBm 0 dB/div Ref 20.00 dBm 0 0 AC 0 0 AC 0 0 AC 100 AC	9 GHZ PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	6.0 ms (40000 pts)	Peak Search Next Pe Next Pk Rig Next Pk L Marker De



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Keysight Spectrum Analyze	50 Ω AC	lz	SENSE:INT	ALIGN AL Avg Type: Log-P	wr	TRACE 1 2 3 4 5 6	Peak Search
		PNO: Fast G FGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold:>100/10		DET	NextDo
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tart 0.0300 GHz Res BW 100 kHz		#VBW	/ 300 kHz		93.33 ms	1.0000 GHz s (40000 pts)	1 of
		#VBW	/ 300 kHz		Stop 93.33 ms ratus	1.0000 GHz s (40000 pts)	1 of
Res BW 100 KHz G Keysight Spectrum Analyze L RF	er - Swept SA 50 Ω AC		SENSE:INT	ST ALIGN AL	93.33 ms	s (40000 pts)	
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Res BW 100 kHz sa Keysight Spectrum Analyze L RF larker 1 2.33622	er - Swept SA 50 Ω AC 28405710 G 	Hz PNO: Fast	SENSE:INT	st ALIGN AL Avg Type: Log-P Avg Hold:>100/11	93.33 ms ratus 700 700 700 700 700 700	5 (40000 pts) ПРАСЕ 1 2 3 4 5 6 ТУРЕ МИЛИИ БЕТ Р NNNNN 6 228 GHz	Peak Search
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Res BW 100 kHz sa sa keysight Spectrum Analyze RF larker 1 2.33622 0 dB/div Ref 20.	er - Swept SA 50 Ω AC 28405710 G 	Hz PNO: Fast	SENSE:INT	st ALIGN AL Avg Type: Log-P Avg Hold:>100/11	93.33 ms ratus 700 700 700 700 700 700	5 (40000 pts) ПРАСЕ 1 2 3 4 5 6 ТУРЕ МИЛИИ БЕТ Р NNNNN 6 228 GHz	
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Res BW 100 kHz sq	er - Swept SA 50 Ω AC 28405710 G 	Hz PNO: Fast	SENSE:INT	st ALIGN AL Avg Type: Log-P Avg Hold:>100/11	93.33 ms ratus 700 700 700 700 700 700	5 (40000 pts) TYPE M 6 228 GHz .911 dBm	Peak Search Next Pea
Res BW 100 kHz sq	er - Swept SA 50 Ω AC 28405710 G 	Hz PNO: Fast	SENSE:INT	st ALIGN AL Avg Type: Log-P Avg Hold:>100/11	93.33 ms ratus 700 700 700 700 700 700	5 (40000 pts) TYPE M 6 228 GHz .911 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le
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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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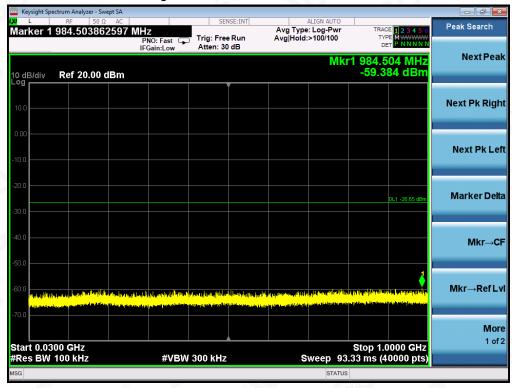
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL





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Keysight Spectrum Analyzer - Swept SA L RF 50 Ω AC		SENSE:IN	т	ALIGN AUTO			
tart Freq 1.000000000 G			Avg Typ	be: Log-Pwr	TRACE	123456 M WWWW	Frequency
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Keysight Spectrum Analyzer - Swept SA L RF 50 Ω AC arker 1 24.93076003150 dB/div Ref 20.00 dBm 0	PNO: Fast 😱	Trig: Free Rur	Avg Typ	ALIGN AUTO be: Log-Pwr d:>100/100	TRACE Type De 1 24.930 -47.97	P NNNNN 8 GHz 14 dBm 0(1 -26.65 dBn	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→
Keysight Spectrum Analyzer - Swept SA RF 50 Q AC arker 1 24.93076003150	PNO: Fast 😱	Trig: Free Rur	Avg Typ	ALIGN AUTO De: Log-Pwr d:>100/100	TRACE Type DE 1 24.930 -47.97	P NNNNN 8 GHz 4 dBm 0L1 -26 65 e8m	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→
arker 1 24.93076003150	PNO: Fast 😱	Trig: Free Rur	Avg Typ	ALIGN AUTO be: LogPwr d:>100/100	TRACE TYPE Der 1 24.930 -47.97	P NNNNN 8 GHz 4 dBm 0L1 -26 65 e8m	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→
Keysight Spectrum Analyzer - Swept SA L RF 50 Q AC arker 1 24.93076003150	PNO: Fast 😱	Trig: Free Rur	Avg Typ	ALIGN AUTO be: LogPwr d:>100/100	TRACE TYPE Der 1 24.930 -47.97	P NNNNN 8 GHz 4 dBm 0L1 -26 65 e8m	Peak Search Next Pe Next Pk Rig Next Pk L Marker De
Keysight Spectrum Analyzer - Swept SA L RF 50 Ω AC	PNO: Fast 😱	Trig: Free Rur	Avg Typ	ALIGN AUTO be: LogPwr d:>100/100	TRACE TYPE Der 1 24.930 -47.97	P NNNNN 8 GHz 4 dBm 0L1 -26 65 e8m	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→Ref
Keysight Spectrum Analyzer - Swept SA L RF 50 Q AC arker 1 24.93076003150	PNO: Fast IFGain:Low	Trig: Free Rur	Avg Typ	ALIGN AUTO De: Log-Pwr d:>100/100 Mkr	TRACE TYPE De ^{**} 1 24.930 -47.97	P NNNNN 8 GHz 4 dBm 01 - 25 65 offen 0.1 - 25 65 offen 1. 	Peak Search Next Pe Next Pk Rig Next Pk L Marker De Mkr→

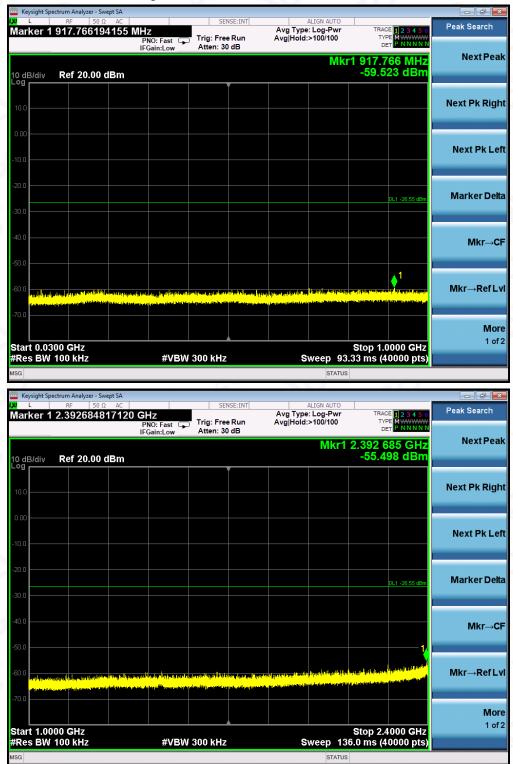


Attestation of Global Compliance(Shenzhen)Co.,Ltd.

 Add: 2/F., Building 2,Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com
 Service Hotline:400 089 2118





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



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

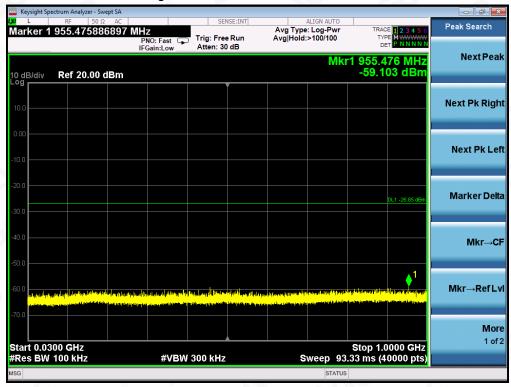
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118





TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE

OF 802.11g FOR MODULATION IN HIGH CHANNEL

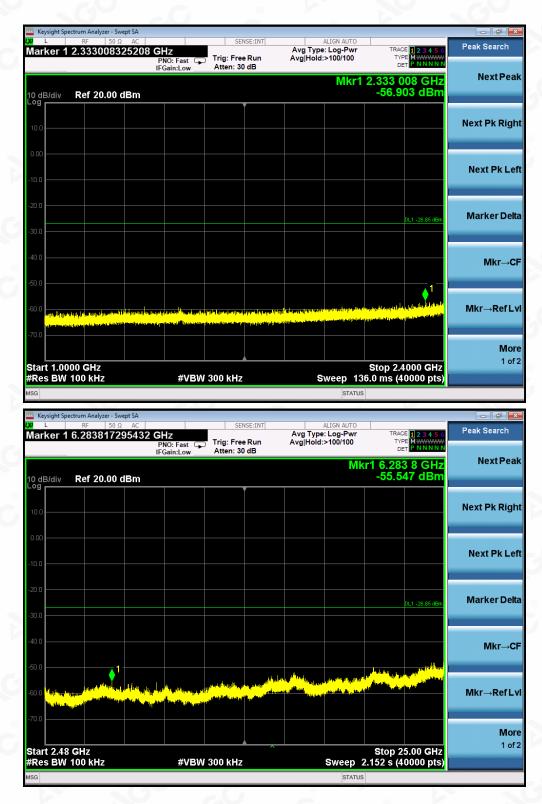




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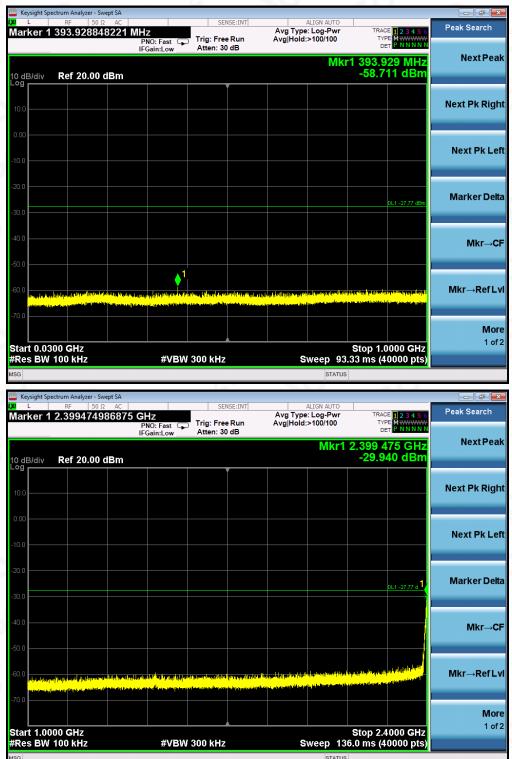


Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail:agc@agc-cert.com Service Hotline:400 089 2118





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



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

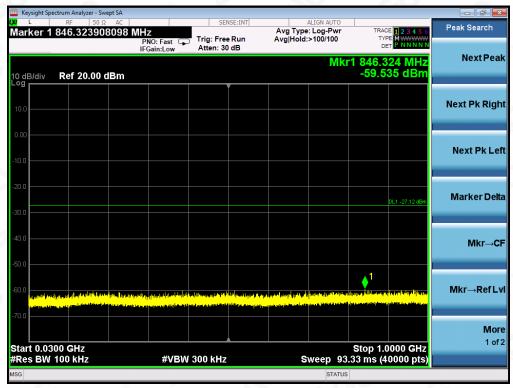
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118





TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE

OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL





Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,



Keysight Spectrur	m Analyzer - Swep RF 50 Ω	AC		SEI	VSE:INT		ALIGN AUTO			
larker 1 2.3		7992 GH	Z O: Fast G		e Run		: Log-Pwr		CE 1 2 3 4 5 6 PE M T P N N N N N	Peak Search
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Keysight Sp	RF 50 Ω AC		SENSE:INT	ALIGN AUTO		
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	100 kHz	#VBW	/ 300 kHz	Sweep 93. status	33 ms (40000 pts)	
ISG	ectrum Analyzer - Swept SA			STATUS	33 ms (40000 pts)	
SG Keysight Sp U	ectrum Analyzer - Swept SA RF 50 Ω AC		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	TRACE 123456	Peak Search
ISG Keysight Sp U L	ectrum Analyzer - Swept SA		SENSE:INT	STATUS ALIGN AUTO	33 ms (40000 pts)	
SG Keysight Sp U	ectrum Analyzer - Swept SA RF 50 Ω AC	52 GHz PNO: Fast G	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 0 TYPE M DET P NNNN 2.363 354 GHz	Peak Search
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Keysight Sp L Marker 1	rectrum Analyzer - Swept SA RF 50 Ω AC 2.3633540838	52 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 0 TYPE M DET P NNNN 2.363 354 GHz	Peak Search Next Pea
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sg Keysight Sp L Marker 1 0 dB/div 0 dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rectrum Analyzer - Swept SA RF 50 Ω AC 2.3633540838	52 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 1 2 3 4 5 0 TYPE M DET P NNNN 2.363 354 GHz	Peak Search Next Pea Next Pk Rig Next Pk Le
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SG Keysight Sp C L Aarker 1 10.0 20.0 20.0 40.0 50.0	ectrum Analyzer - Swept SA RF 50 Ω AC 2.36335408383 Ref 20.00 dBm	52 GHZ PNO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 123456 TYPE MYWWW DET PNNNNN 2.363354 GHz -56.515 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr—C
sg Sg C dB/div C dB/div	ectrum Analyzer - Swept SA RF 50 Ω AC 2.36335408383 Ref 20.00 dBm 	52 GHZ PNO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 2 3 4 5 0 TYPE MWWWW DET PNNNNN 2.363 354 GHz -56.515 dBm RL1-2718 dBm RL1-2718 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C Mkr→Ref L
SG Keysight Sp 0 L J 0 L J 10.0 J 10.0 30.0 40.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0	ectrum Analyzer - Swept SA RF 50 Ω AC 2.36335408383 Ref 20.00 dBm 	52 GHZ PNO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100 Mkr1	TRACE 123456 TYPE MYWWW DET PNNNNN 2.363354 GHz -56.515 dBm	Peak Search Next Pea Next Pk Rig Next Pk Le Marker Del Mkr→C

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

bal C Attestation of Global Compliance

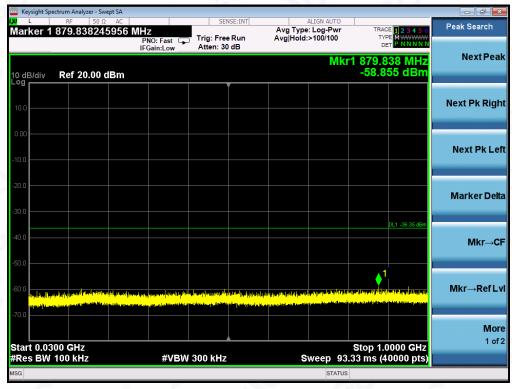
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Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,





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

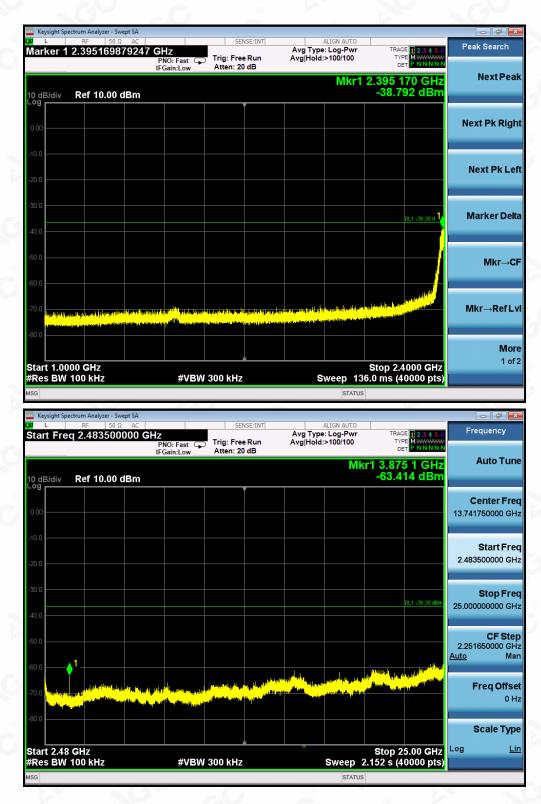




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 E-mail:
 agc@agc-cert.com

 Service Hotline:400 089 2118



	ectrum Analyzer - Sv RF 50 Ω	2 AC		SENS	E:INT		ALIGN AUTO			
	905.93189	8297 MHz	IO: Fast 🔾		Run		: Log-Pwr	TRACE TYPE DET	123456 MWWWWW PNNNNN	Peak Search
			ain:Low	Atten: 20 C	10		Mkr1	905.93	32 MHz	NextPea
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fart 0.03 Res BW	00 GHz 100 kHz		#VBW	/ 300 kHz		s	weep 93.3	3 ms (40	000 GHz 1000 pts)	
			#VBW	/ 300 kHz		S	weep 93.3 STATUS	3 ms (40	000 GHz 1000 pts)	
Res BW	100 kHz	wept SA	#VBW	/ 300 kHz		S	weep 93.3	3 ms (40	000 GHz 1000 pts)	
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Res BW sa sa sa keysight Spr L Marker 1 0 dB/div 0 0 10.0	100 kHz ectrum Analyzer - Sv RF 50 S 2.3993699	2 AC 084250 GH PN IFG	Z IO: Fast	SENS	Run	Avg Type	weep 93.3 STATUS STATUS ALIGN AUTO Status Status Status Status Status	3 ms (40 TRACE TYPE DET 2.399 37	123456 M P NNNN 70 GHz	Peak Search Next Pea Next Pk Rigi
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Reysight Spr © Keysight Spr 0 0 Aarker 1 0 0	100 kHz ectrum Analyzer - Sv RF 50 S 2.3993699	2 AC 084250 GH PN IFG	Z IO: Fast	SENS	Run	Avg Type	weep 93.3 STATUS STATUS ALIGN AUTO Status Status Status Status Status	3 ms (40 TRACE TYPE DET .399 37 -45.59	12 3 4 5 6 M	Peak Search Next Pea Next Pk Righ Next Pk Le Marker Del
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Res BW Keysight Spr d Aarker 1 0	100 kHz ectrum Analyzer - 50 g RF 50 g 2.3993699 Ref 10.00	2 AC 184250 GH PN IFG	IZ IO: Fast C ain:Low	Trig: Free Atten: 20 c	Run IB	Avg Type Avg Hold:	weep 93.3 STATUS ALIGN AUTO ELOG-PWT >100/100	3 ms (40 Trace Type 339 37 -45.59	12 3 4 5 6 M	Peak Search Next Pea Next Pk Rigi Next Pk Le Marker Dei Mkr→C Mkr→Ref L
Res BW SG Keysight Spr d Aarker 1 0 dB/div 0 dB/div	100 kHz	2 AC 184250 GH PN IFG	Z O: Fast C:	Trig: Free Atten: 20 c	Run IB	Avg Type Avg Hold:	weep 93.3 STATUS ALIGN AUTO ELOG-PWr >100/100 MKr1 2	3 ms (40 TRACE TYPE 3.399 37 -45.59	12 3 4 5 6 M 2000 pts)	Peak Search Next Pea Next Pk Righ Next Pk Le Marker Def Mkr→C

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

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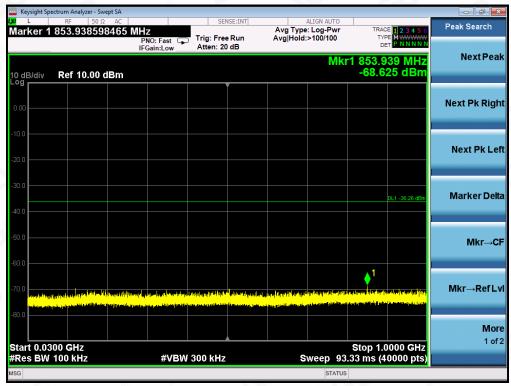
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE

OF 802.11n40 FOR MODULATION IN HIGH CHANNEL

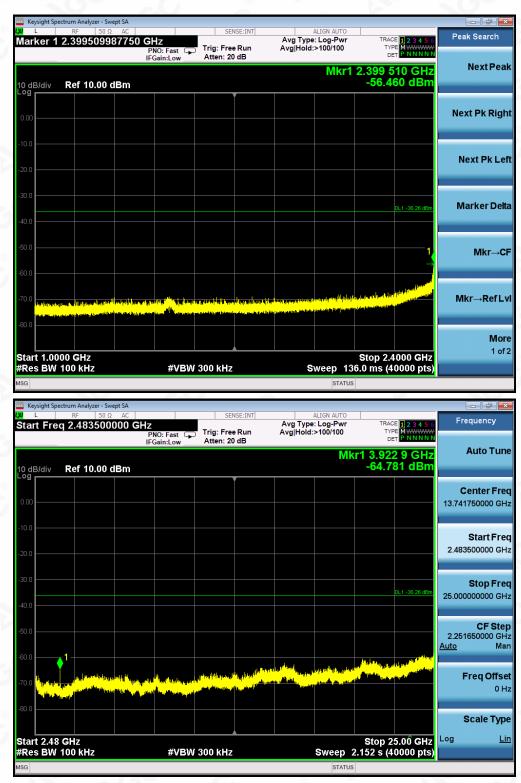




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Note: Two transmit chains had been tested, the chain 1 was the worst case and record in the test report.



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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 10.3 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 Chain 1 (dBm/20kHz)	Power density Chain 2 (dBm/20kHz)	Power density Total (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	7.556	7.529	N/A	8	Pass
Middle Channel	7.693	7.820	N/A	8	Pass
High Channel	7.667	7.642	N/A	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY	20-	5
TEST MODE	802.11g with data rate 6	6	

Channel No.	Power density Chain 1 (dBm/20kHz)	Power density Chain 2 (dBm/20kHz)	Power density Total (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-1.058	-1.898	N/A	8	Pass
Middle Channel	-3.145	-3.069	N/A	8	Pass
High Channel	-3.014	-2.331	N/A	8	Pass



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

Channel No.	Power density Chain 1 (dBm/20kHz)	Power density Chain 2 (dBm/20kHz)	Power density Total (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-3.207	-3.152	-0.169	8	Pass
Middle Channel	-3.158	-2.804	0.033	8	Pass
High Channel	-3.144	-2.973	-0.047	8	Pass

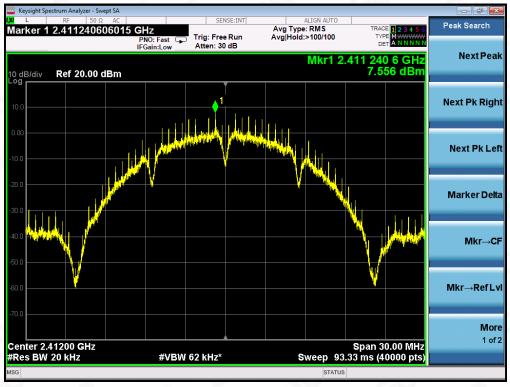
TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11n 40 with data rate 13.5

Channel No.	Power density Chain 1 (dBm/20kHz)	Power density Chain 2 (dBm/20kHz)	Power density Total (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-8.830	-8.954	-5.881	8	Pass
Middle Channel	-8.612	-8.207	-5.394	8	Pass
High Channel	-8.641	-8.801	-5.710	8	Pass



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802.11b TEST RESULT AT CHAIN 1 TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL





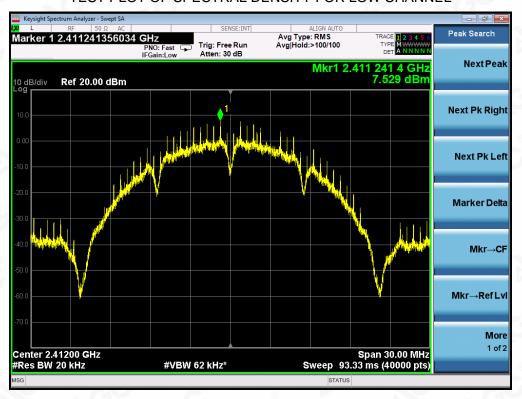
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802.11b TEST RESULT AT CHAIN 2 TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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trum Analyzer - Swept SA Marker 1 2.462742143554 GHz **Peak Search** Avg Type: RMS Avg|Hold:>100/100 Trig: Free Run Atten: 30 dB PNO: Fast 🖵 IFGain:Low Next Peak Mkr1 2.462 742 1 GHz 7.642 dBm Ref 20.00 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLvi More 1 of 2 Span 30.00 MHz Sweep 93.33 ms (40000 pts) Center 2.46200 GHz #Res BW 20 kHz #VBW 62 kHz*

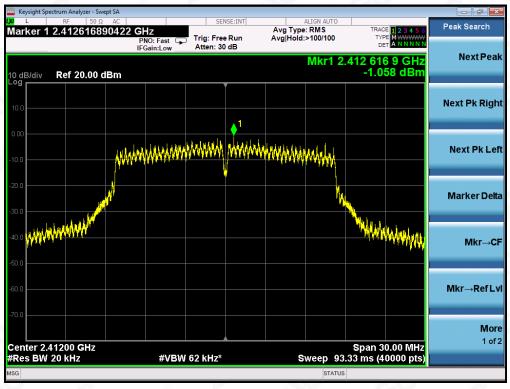
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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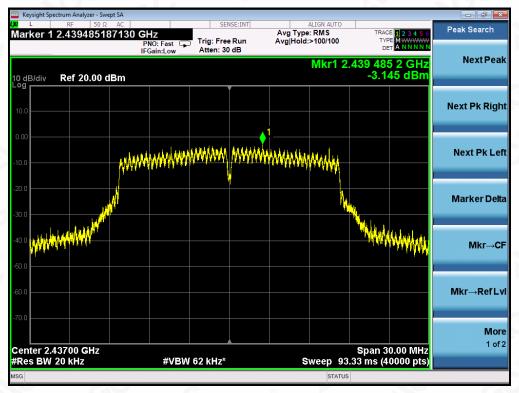
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802.11g TEST RESULT AT CHAIN 1 TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL





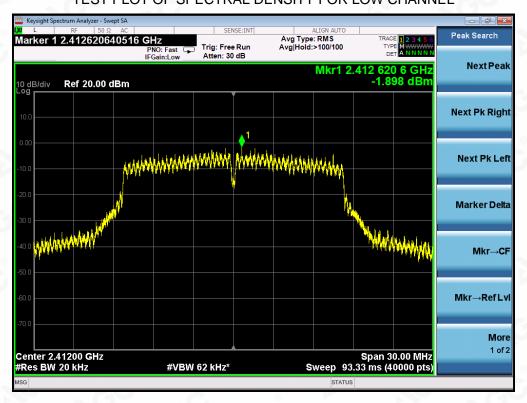
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802.11g TEST RESULT AT CHAIN 2 TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

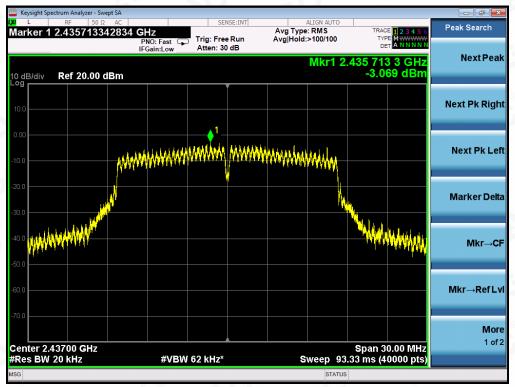


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ight Spectrum Analyzer - Swept SA Center Freq 2.462000000 GHz Frequency Avg Type: RMS Avg|Hold:>100/100 Trig: Free Run Atten: 30 dB TYF DE PNO: Fast 🖵 IFGain:Low Auto Tune Mkr1 2.464 479 9 GHz -2.331 dBm Ref 20.00 dBm 10 dB/div **Center Freq** 2 462000000 GHz ***** Start Freq 2.447000000 GHz Stop Freq 2.477000000 GHz * القاديد فعار **CF** Step 3.000000 MH Auto Mar **Freq Offset** 0 Hz Scale Type Span 30.00 MHz Sweep 93.33 ms (40000 pts) Center 2.46200 GHz #Res BW 20 kHz Lin #VBW 62 kHz*

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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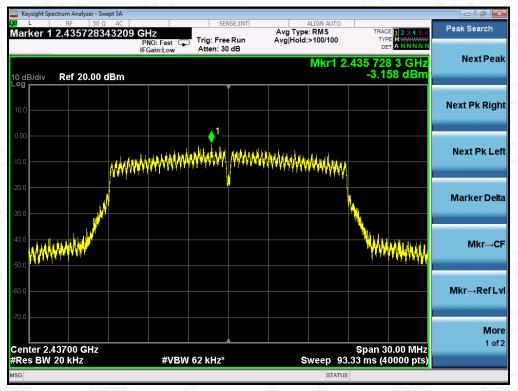
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802.11n 20 TEST RESULT AT CHAIN 1 TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

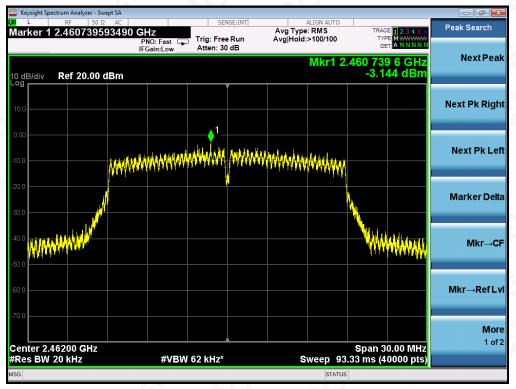




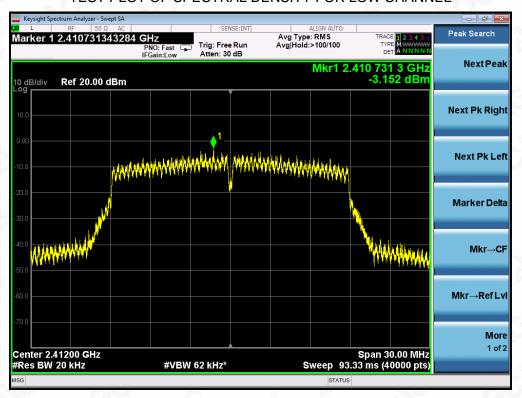
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802.11n 20 TEST RESULT AT CHAIN 2 TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

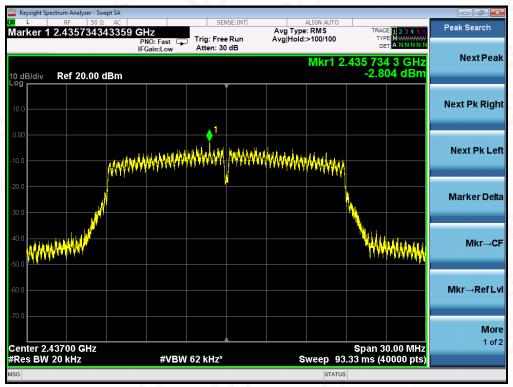


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ectrum Analyzer - Swept SA **Peak Search** Marker 1 2.460738093452 GHz Avg Type: RMS Avg|Hold:>100/100 Trig: Free Run Atten: 30 dB PNO: Fast 🖵 IFGain:Low Next Peak Mkr1 2.460 738 1 GHz -2.973 dBm Ref 20.00 dBm 10 dB/div Next Pk Right a had been a had been a Next Pk Left PAYAN a an a share a Marker Delta Mkr→CF **HAMAN** 11/1 Mkr→Ref Lvl More 1 of 2 Center 2.46200 GHz #Res BW 20 kHz Span 30.00 MHz Sweep 93.33 ms (40000 pts) #VBW 62 kHz*

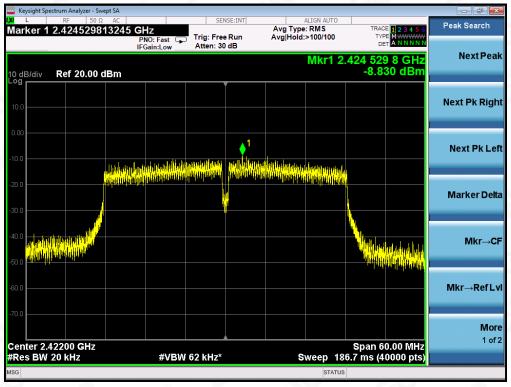
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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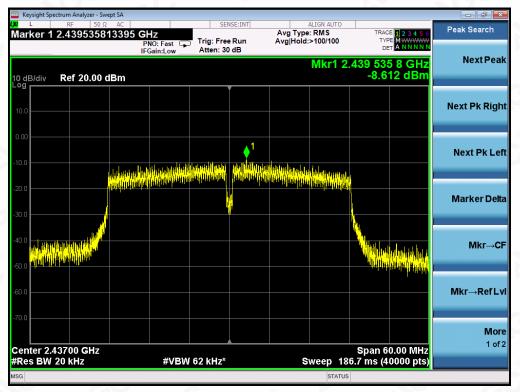
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802.11n 40 TEST RESULT AT CHAIN 1 TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

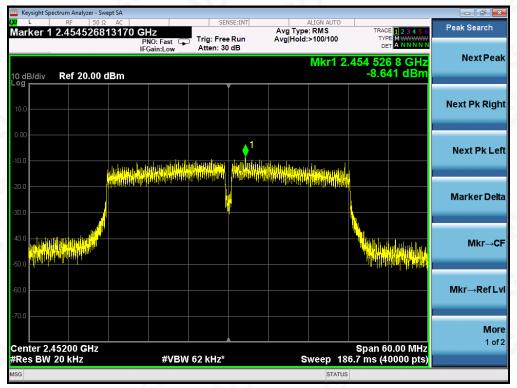




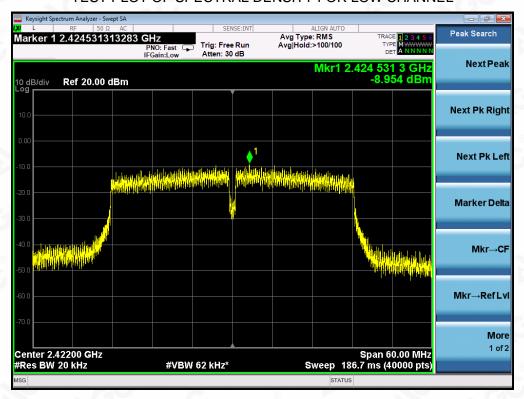
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802.11n 40 TEST RESULT AT CHAIN 2 TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL





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