

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) : FCC Part 15.247
TEST PROCEDURE(S) :
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	/	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 District, 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

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



Draven Li
(Project Engineer)

Sep. 03, 2019

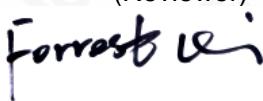
Reviewed By



Max Zhang
(Reviewer)

Sep. 04, 2019

Approved By



Forrest Lei
(Authorized Officer)

Sep. 04, 2019



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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	11
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
2400~2483.5MHZ	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	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

2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPSC	NCBPS		NDBPS		Data rate(Mbps)	
					20MHz		40MHz		20MHz	
					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: 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 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.



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, $U_c = \pm 3.2 \text{ dB}$
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9 \text{ dB}$
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8 \text{ dB}$



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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

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)

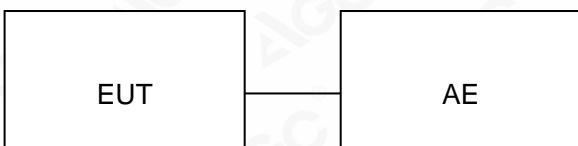
Note:

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 SecureCRTSecure_V7.0.0.326 which can set the EUT into the individual test modes.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



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	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	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	Agilent	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

7. OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

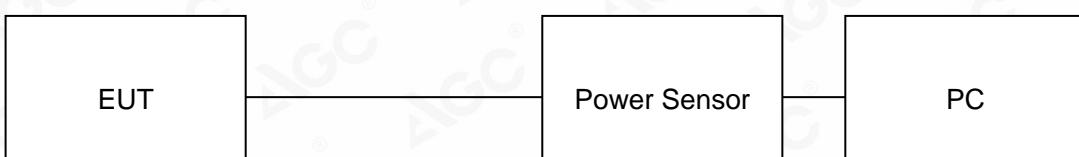
For average power test:

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				
TEST MODE	802.11g with data rate 6				

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				
TEST MODE	802.11n 20 with data rate 6.5				

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

TEST ITEM	OUTPUT POWER
TEST MODE	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
2.437	13.22	13.40	16.32	30	Pass
2.452	13.38	13.29	16.35	30	Pass



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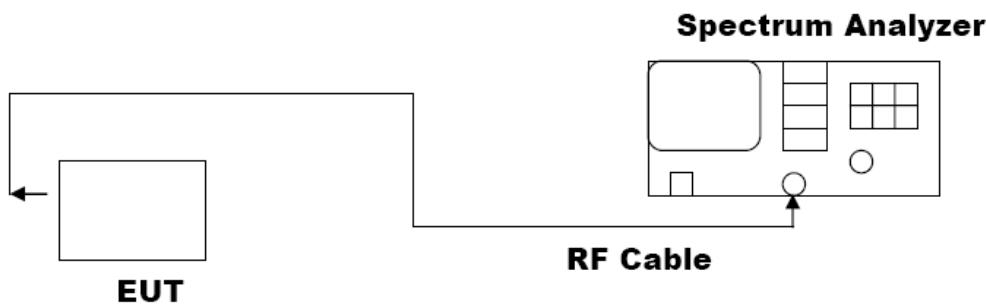
8. 6 DB BANDWIDTH

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 \geqslant 3 \times 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)



8.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH	
TEST MODE	802.11b with data rate 11	

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	Low Channel	9.560	PASS
	Middle Channel	9.093	PASS
	High Channel	9.098	PASS

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

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	Low Channel	15.13	PASS
	Middle Channel	15.10	PASS
	High Channel	15.13	PASS

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

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	Low Channel	15.13	PASS
	Middle Channel	15.11	PASS
	High Channel	15.11	PASS



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

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	Low Channel	35.13	PASS
	Middle Channel	35.09	PASS
	High Channel	35.11	PASS

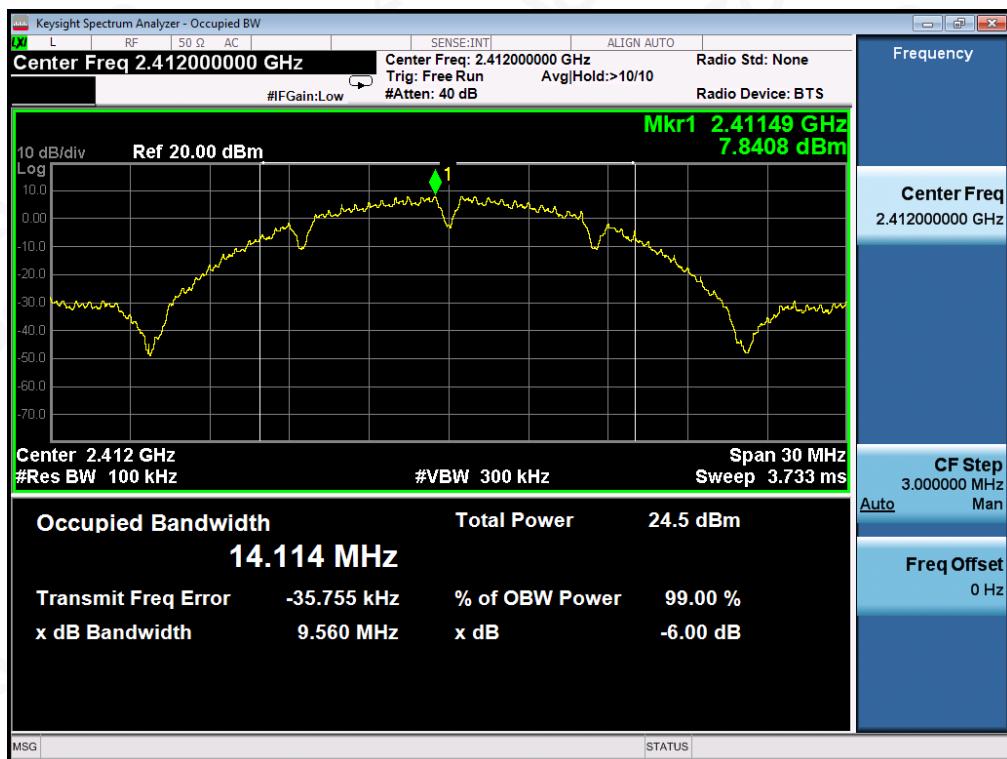


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802.11b TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

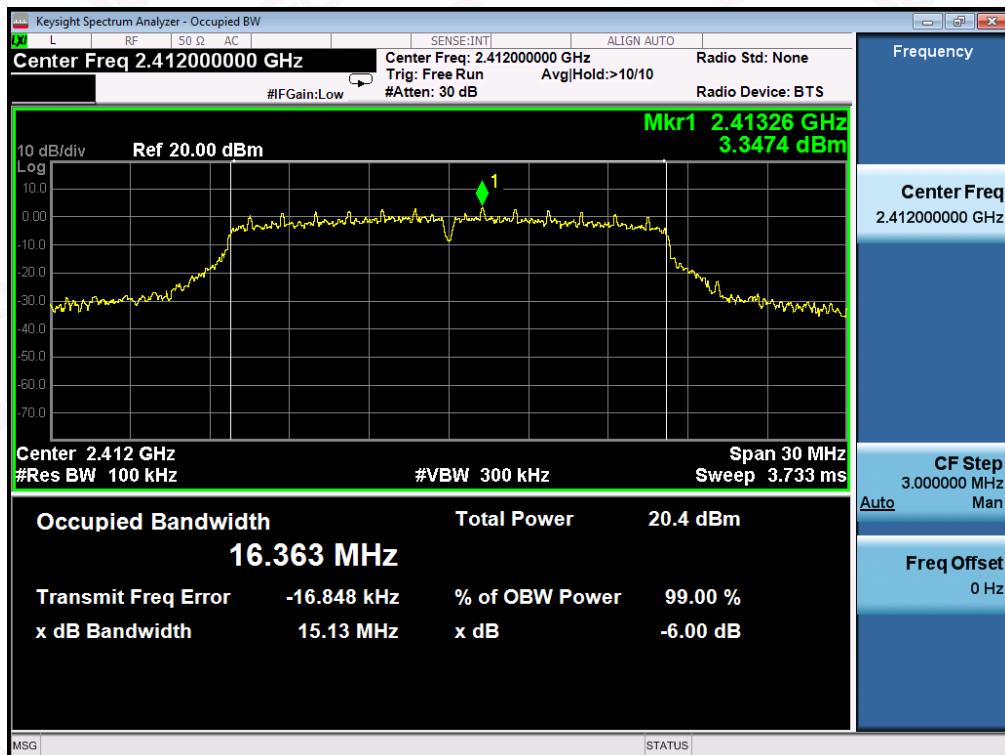


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



802.11g TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



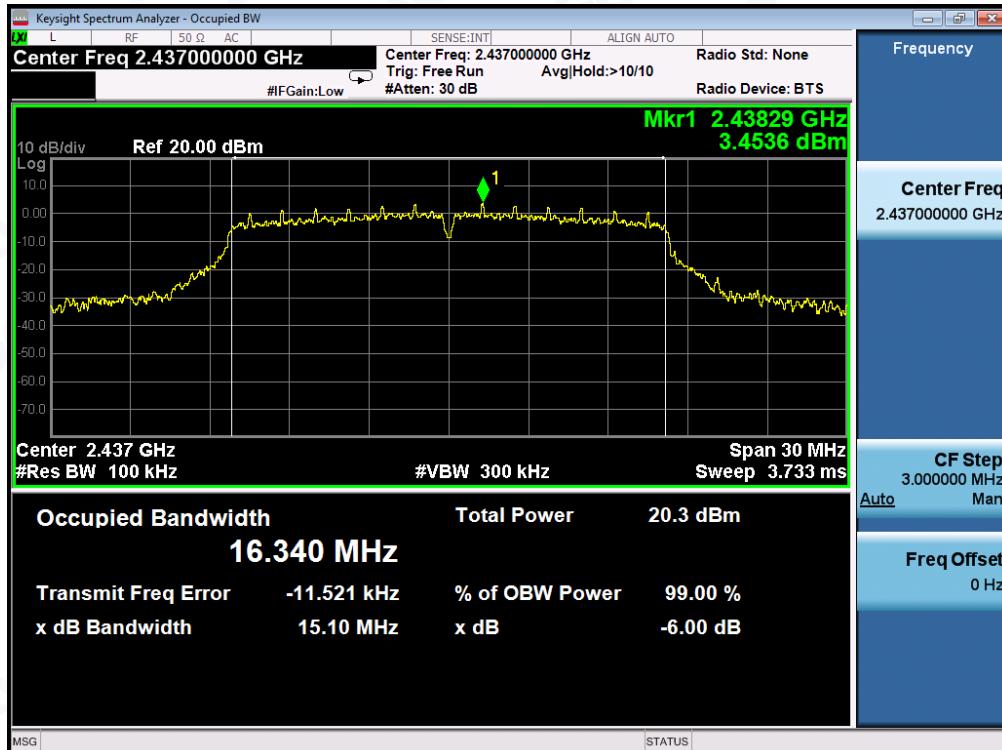
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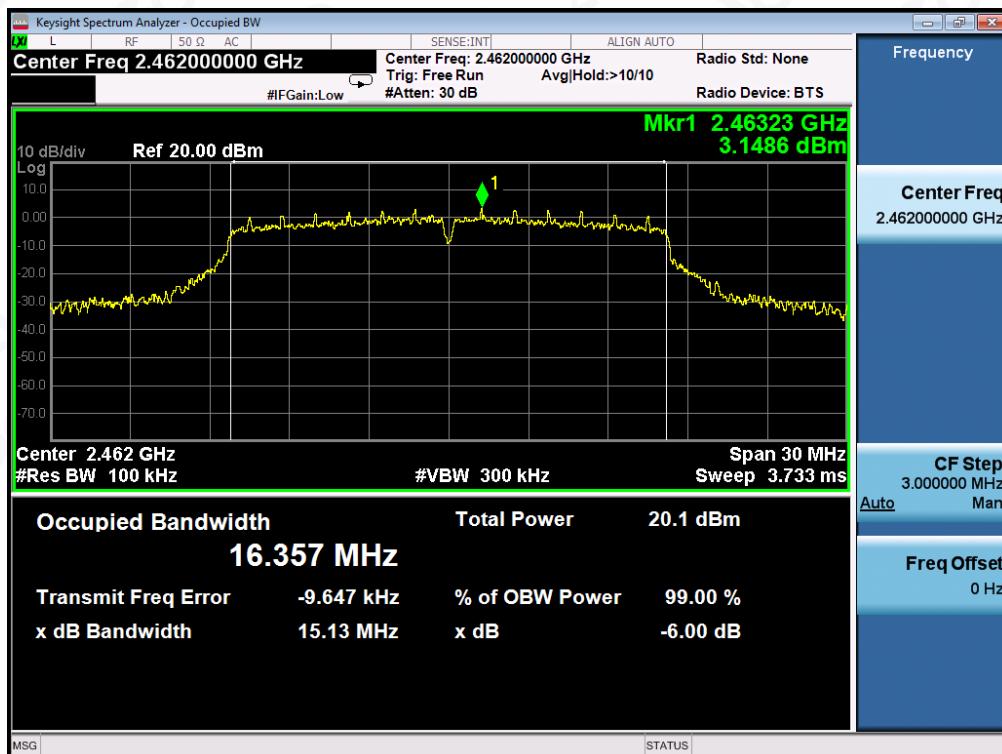
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

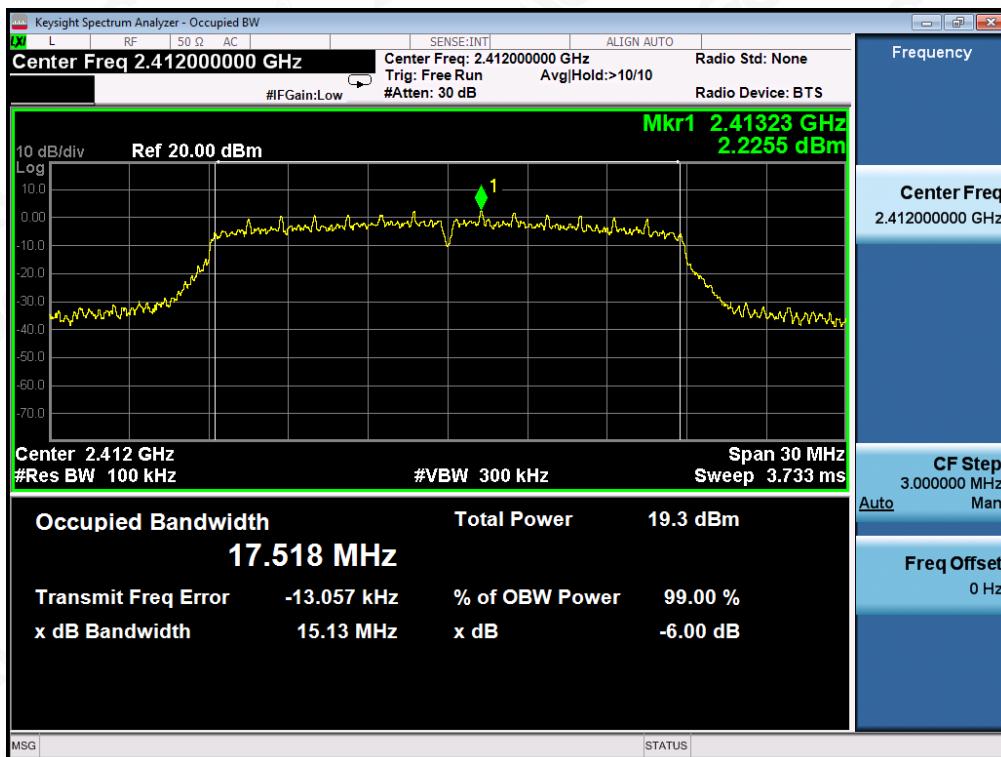


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

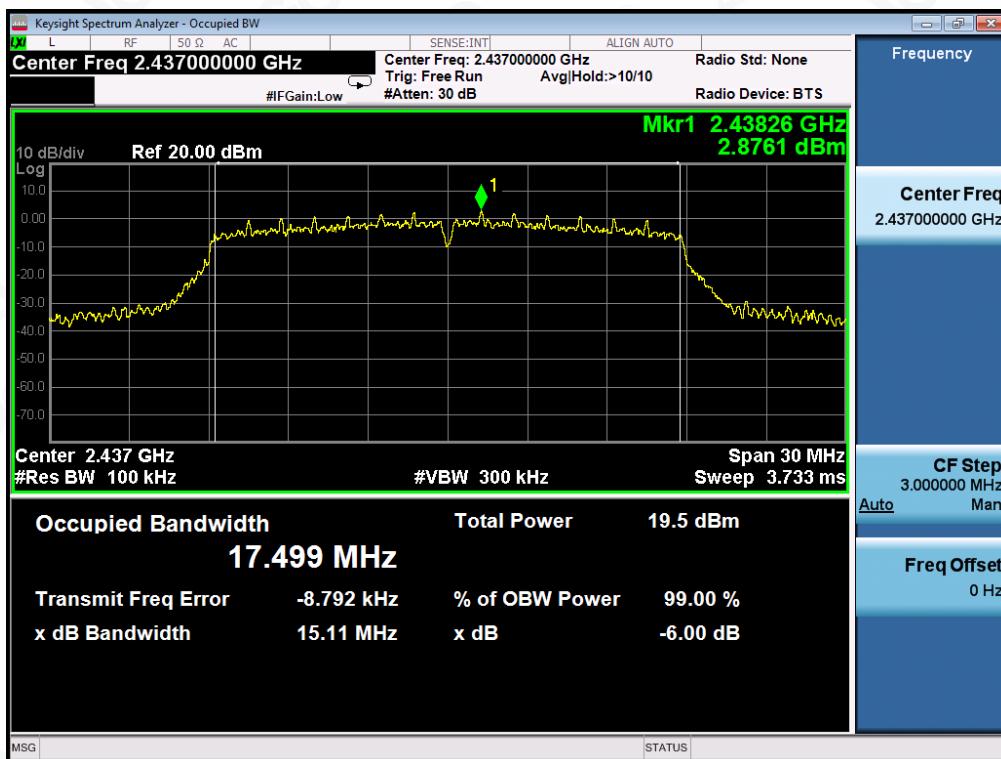


802.11n (20) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



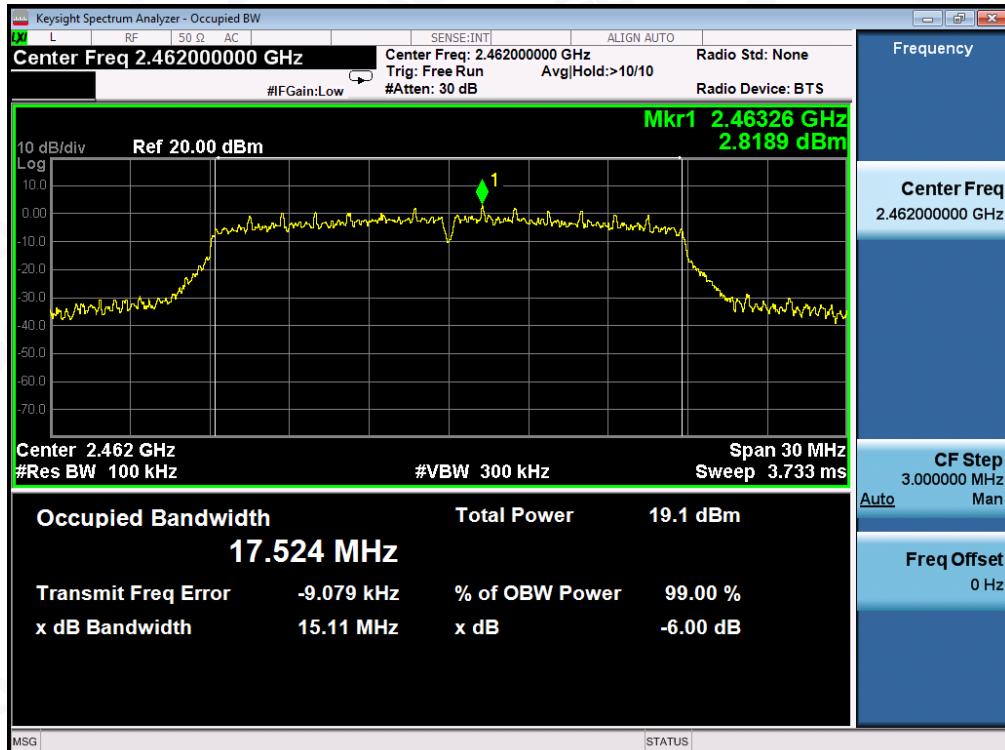
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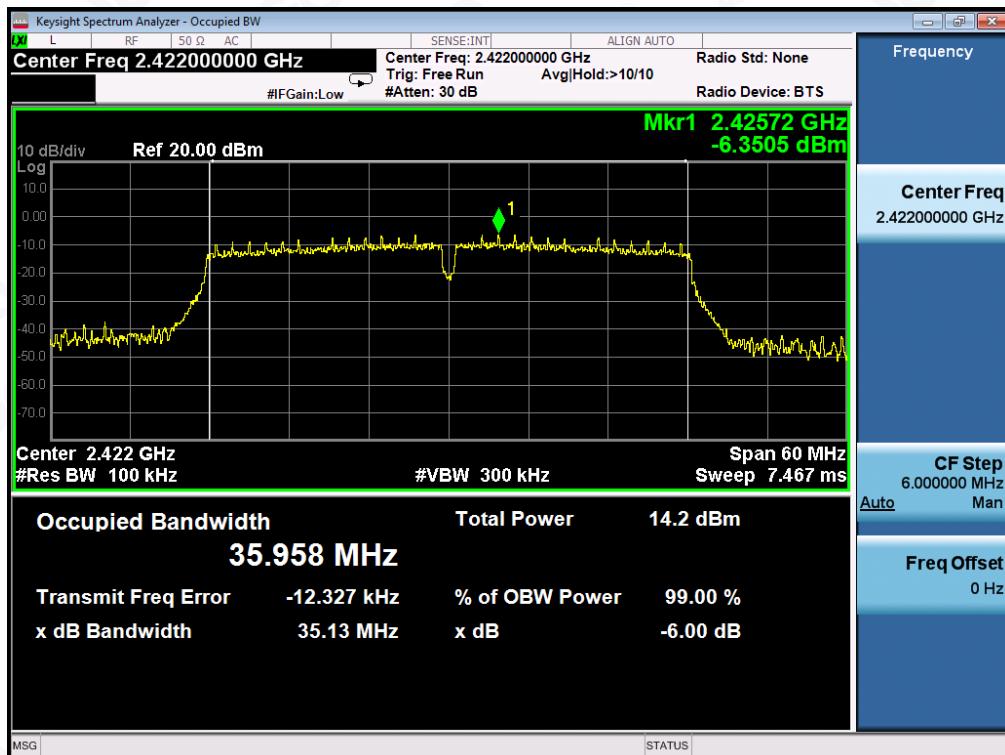
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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



802.11n (40) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



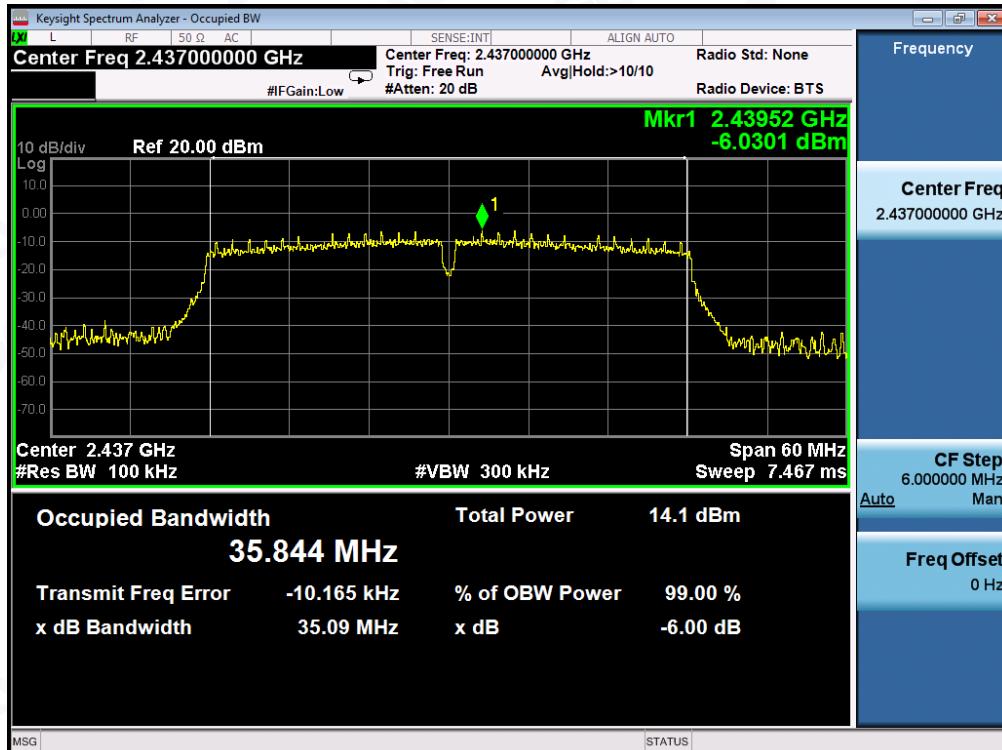
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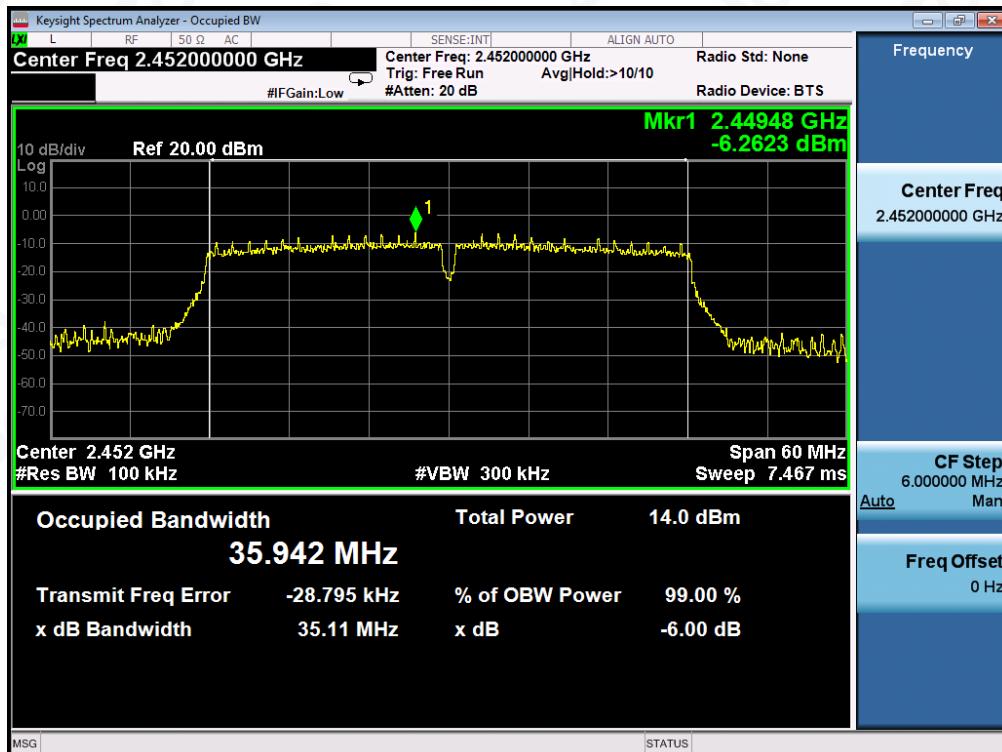
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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.

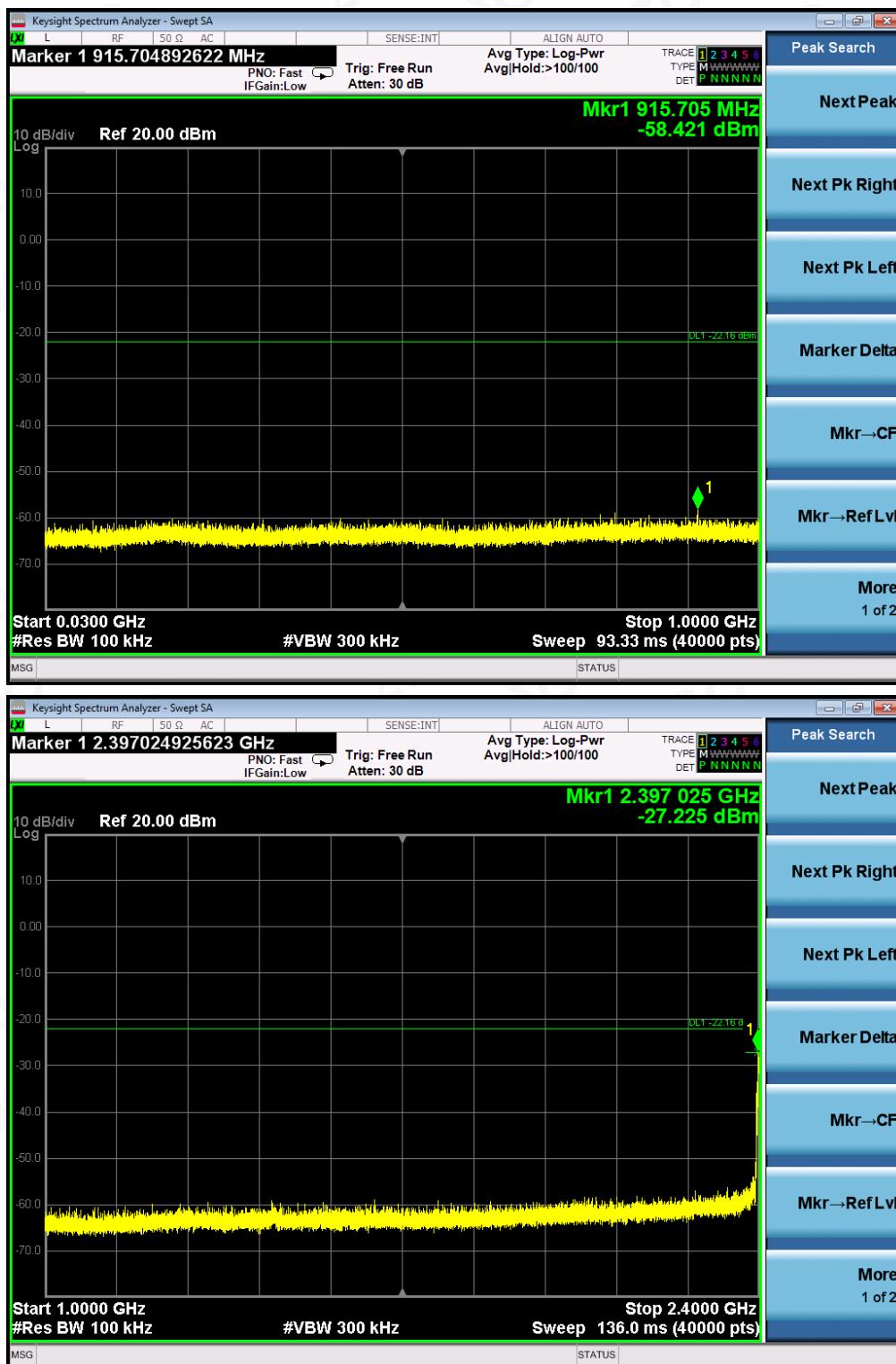
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum 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 BOTTOM Channel	PASS
	At least -30dBc than the limit Specified on the TOP Channel	PASS

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



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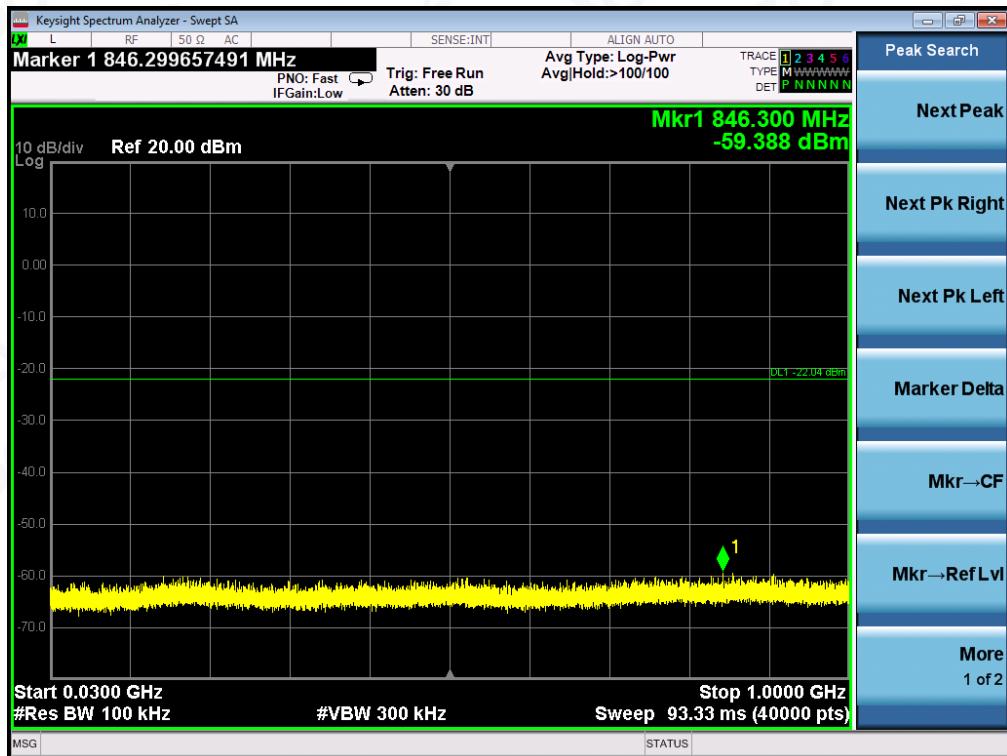
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11b FOR MODULATION IN MIDDLE CHANNEL

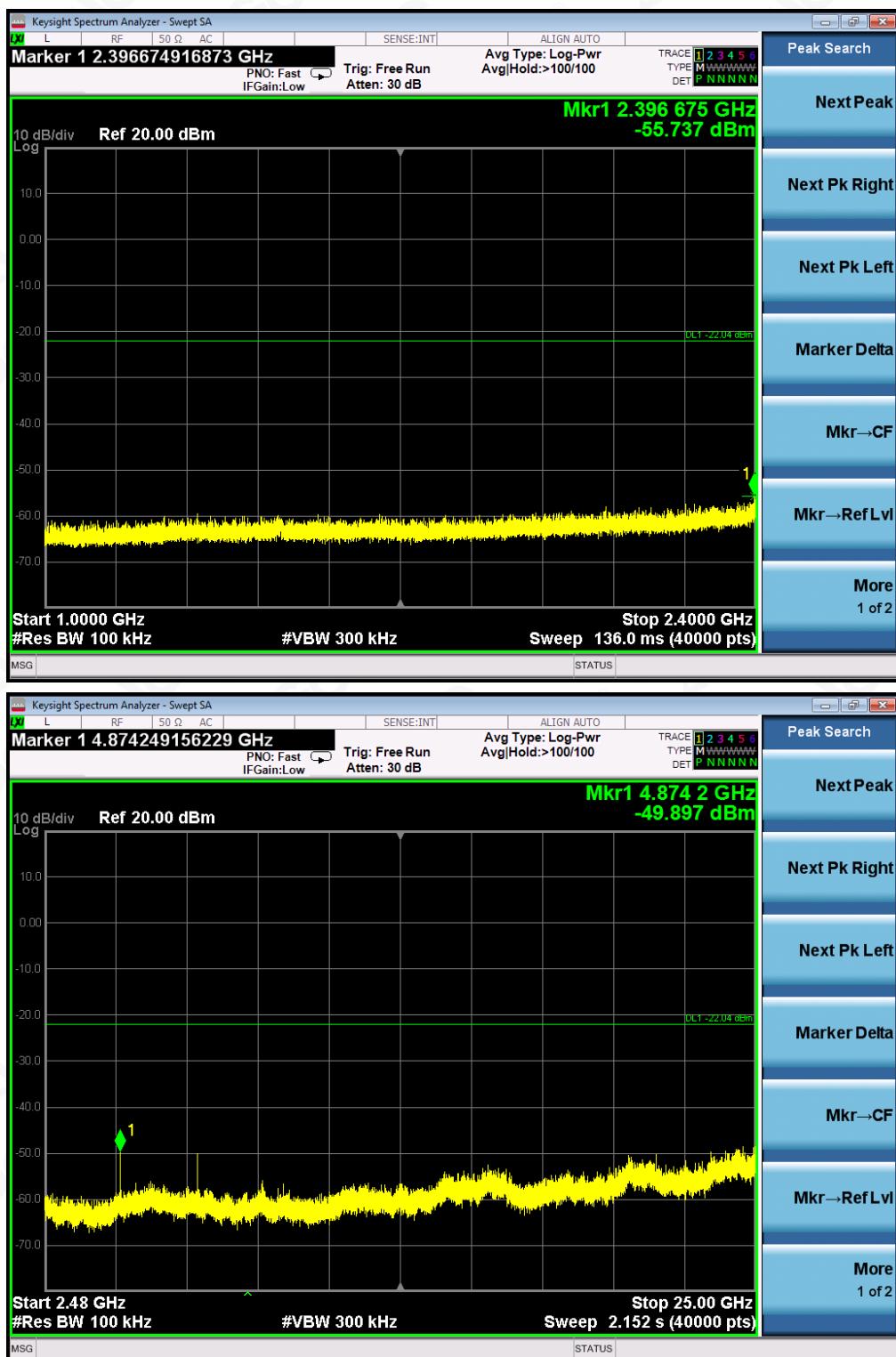


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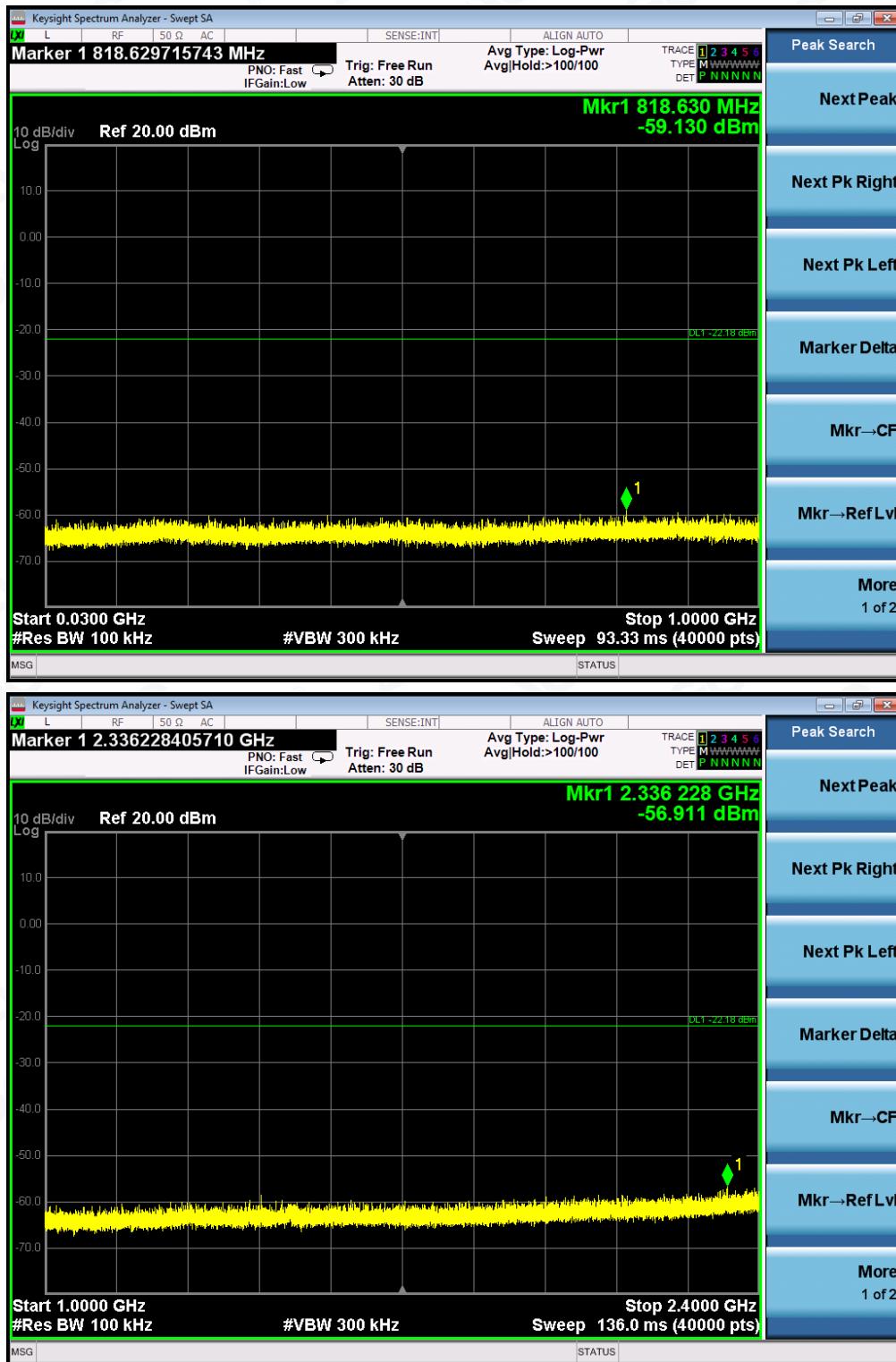
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11b FOR MODULATION IN HIGH CHANNEL

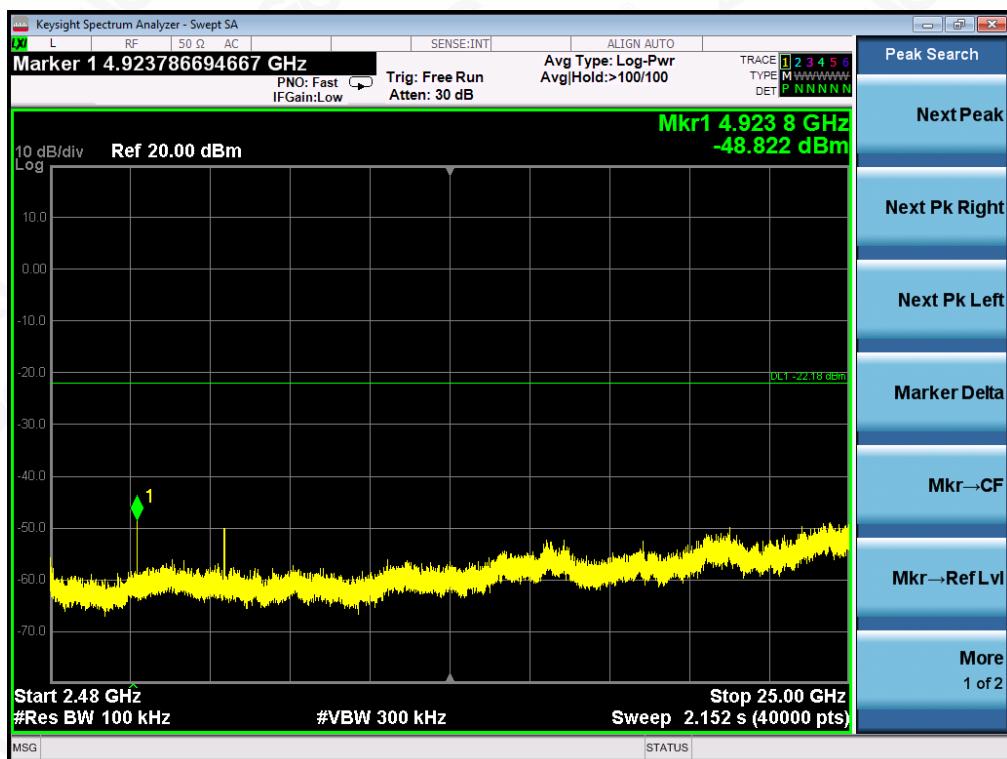


Attestation of Global Compliance

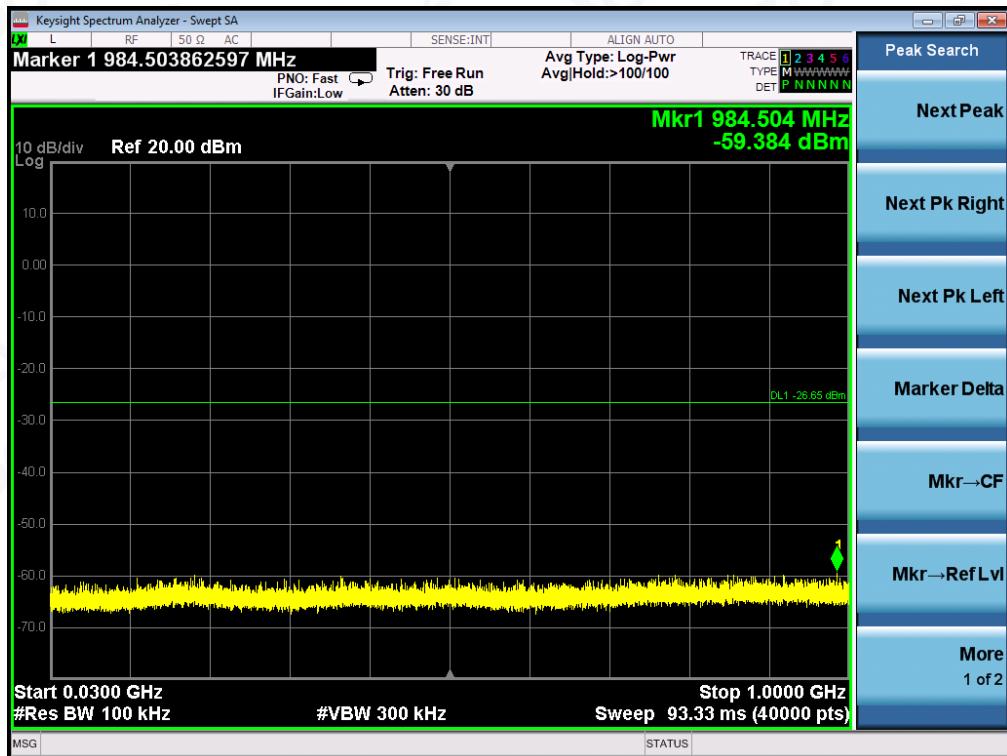
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
 OF 802.11g FOR MODULATION IN LOW CHANNEL

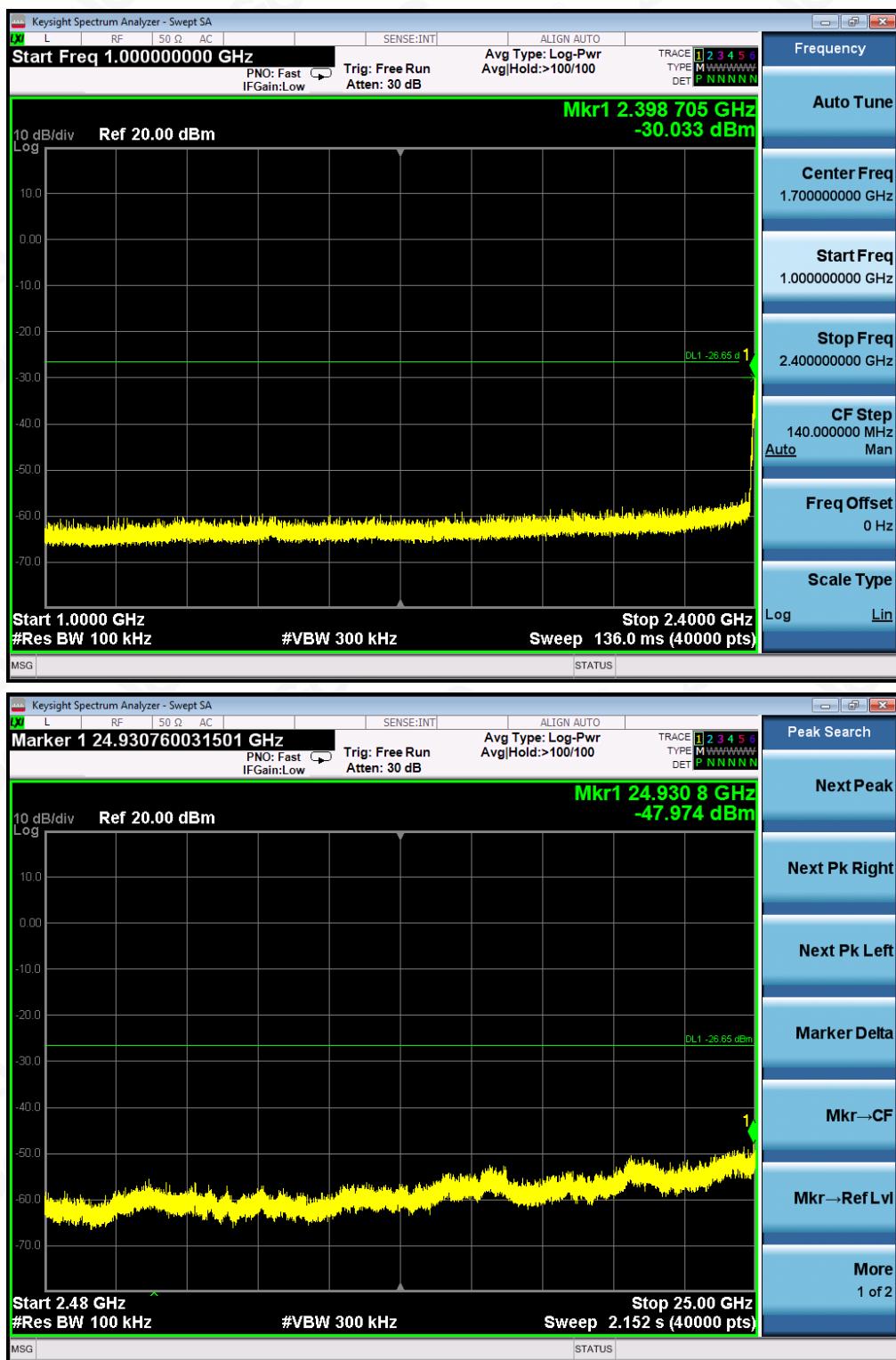


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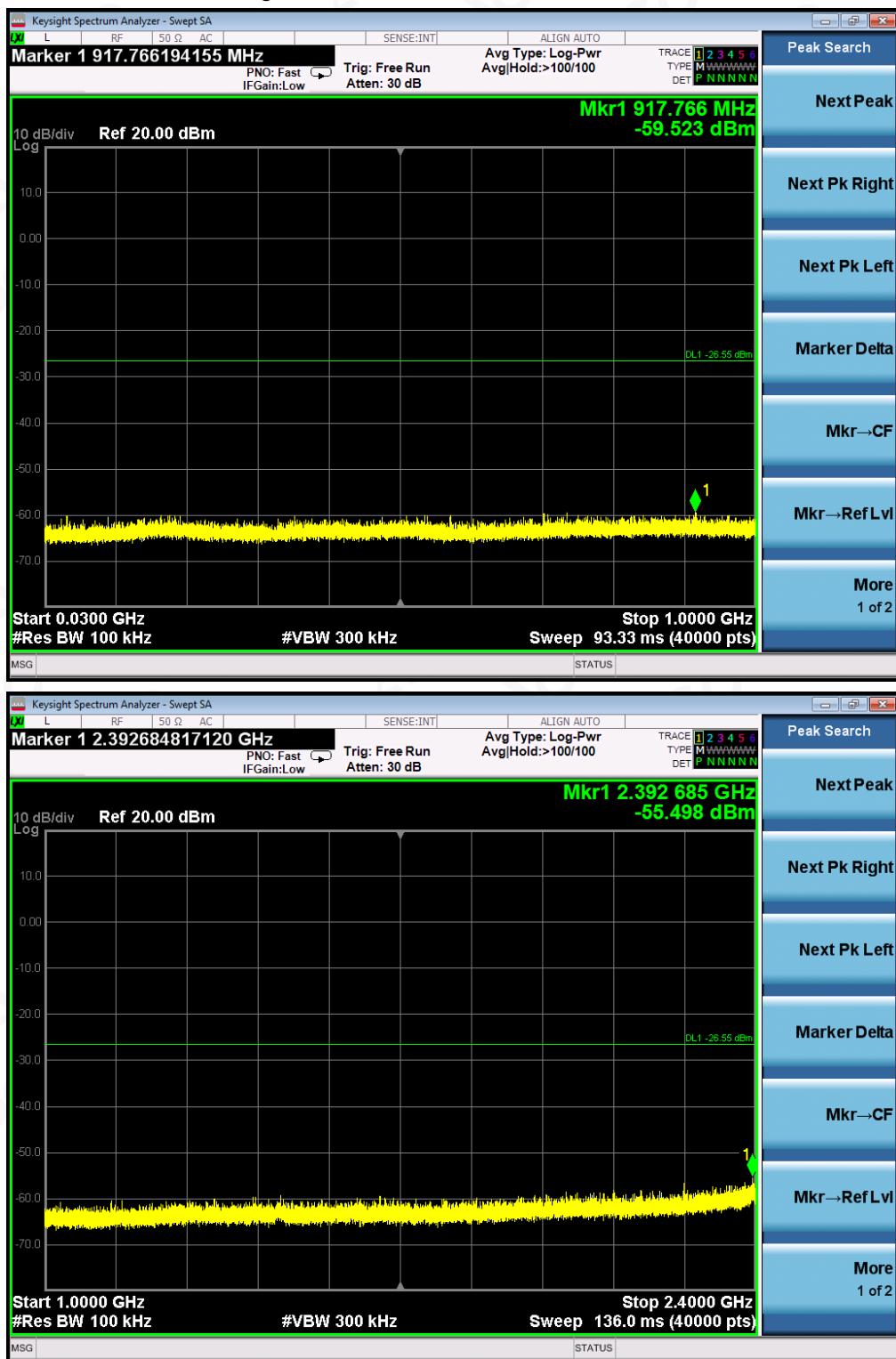
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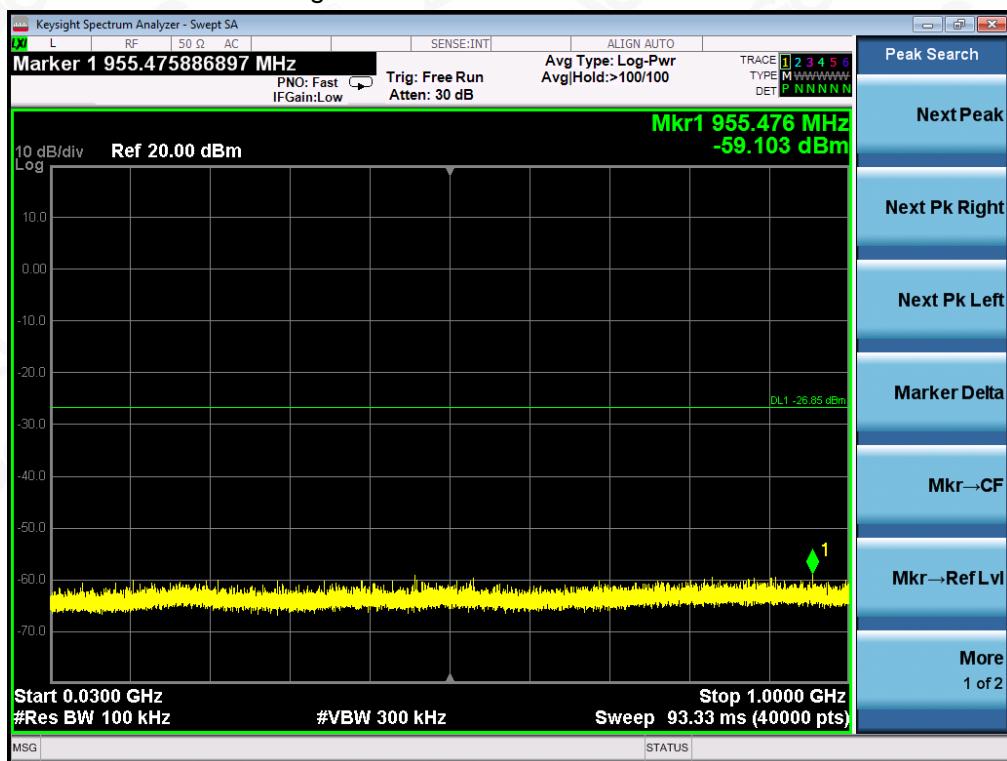
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11g FOR MODULATION IN MIDDLE CHANNEL





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

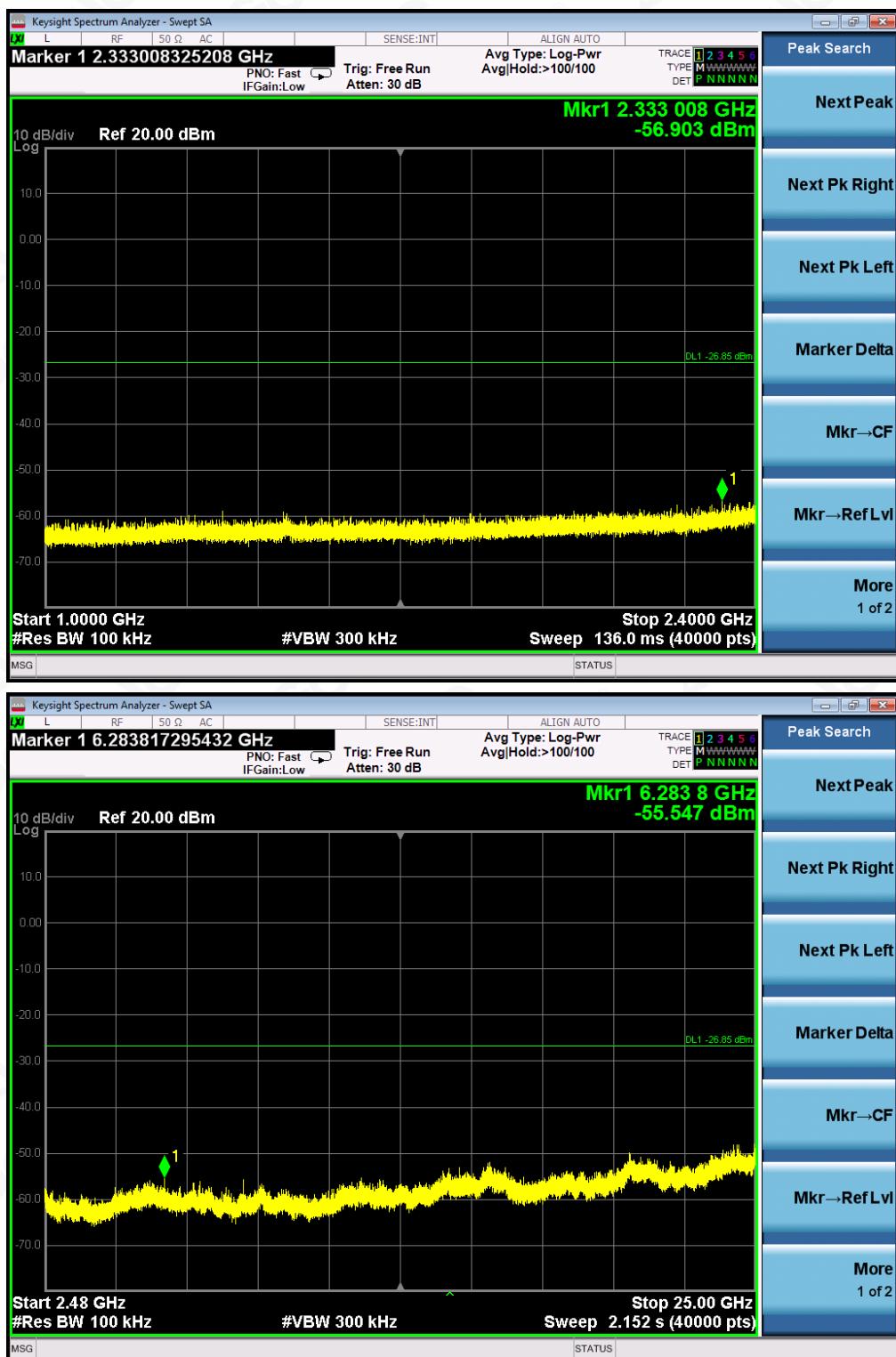


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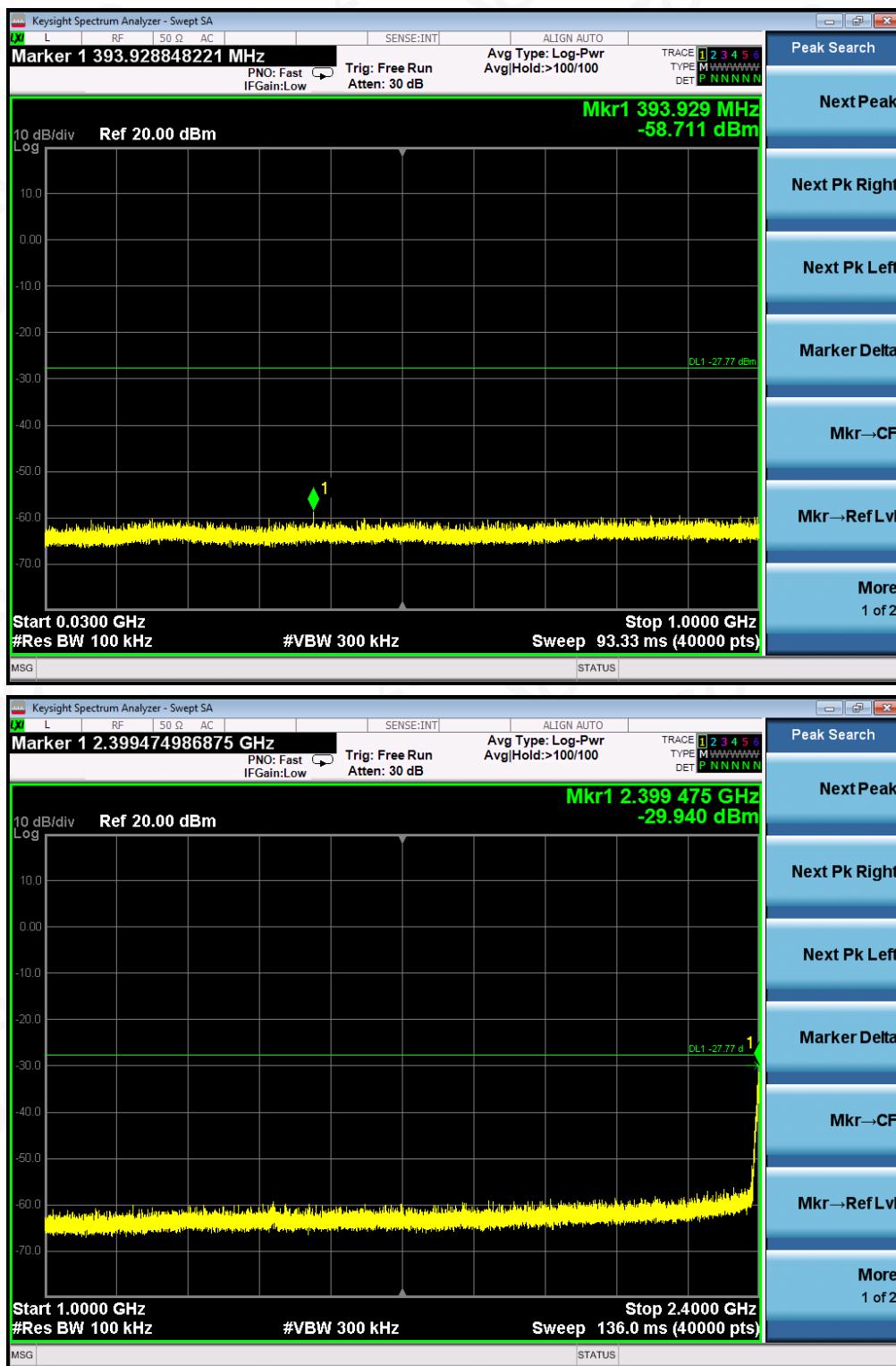
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF 802.11n20 FOR MODULATION IN LOW CHANNEL



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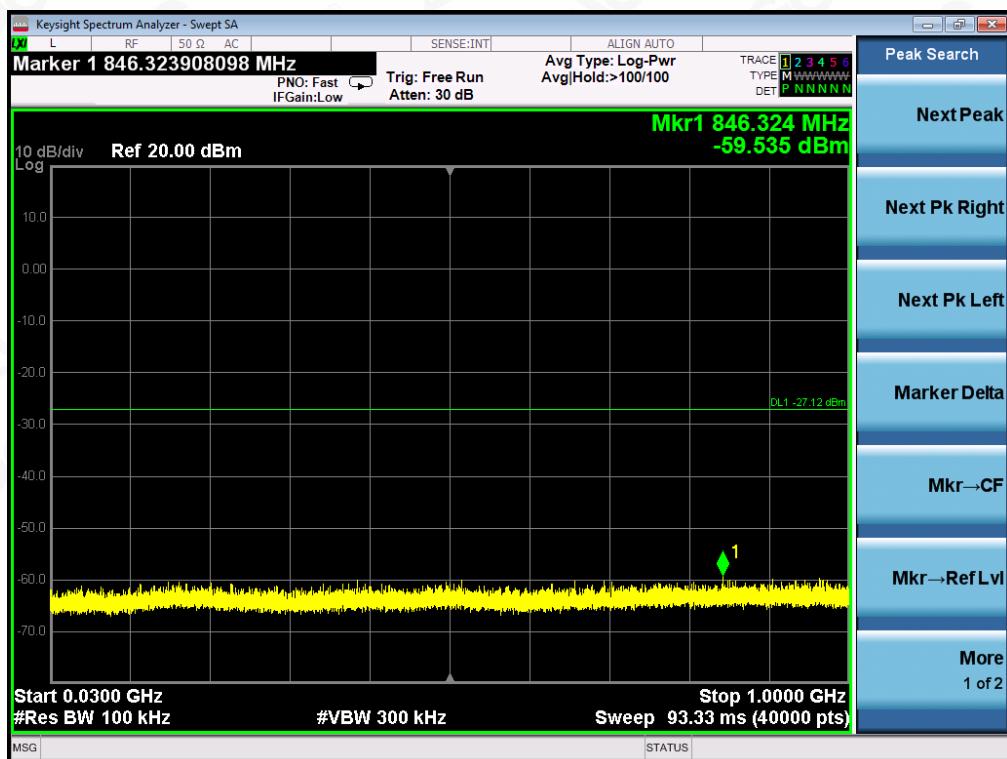
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
 OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL

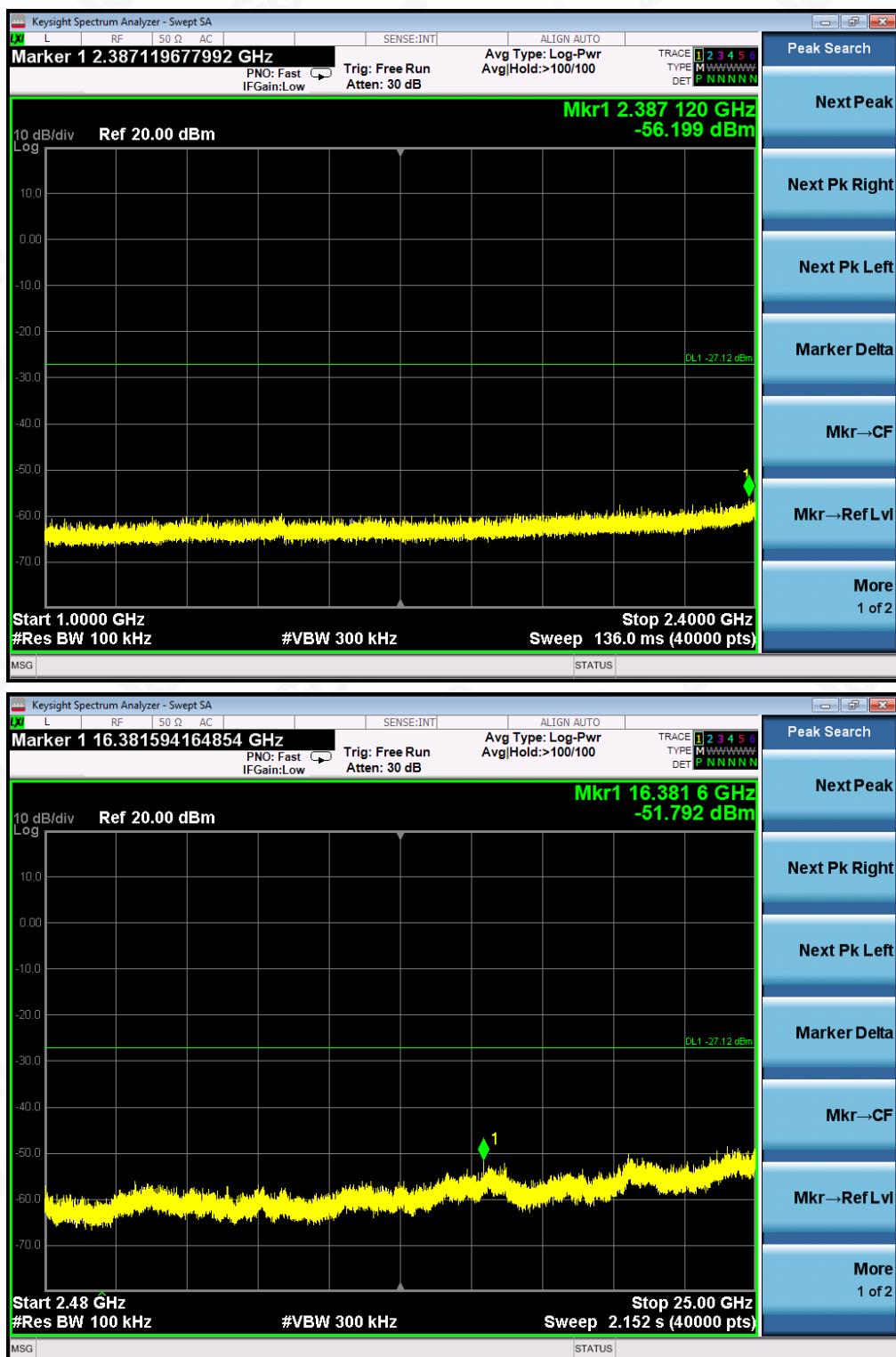


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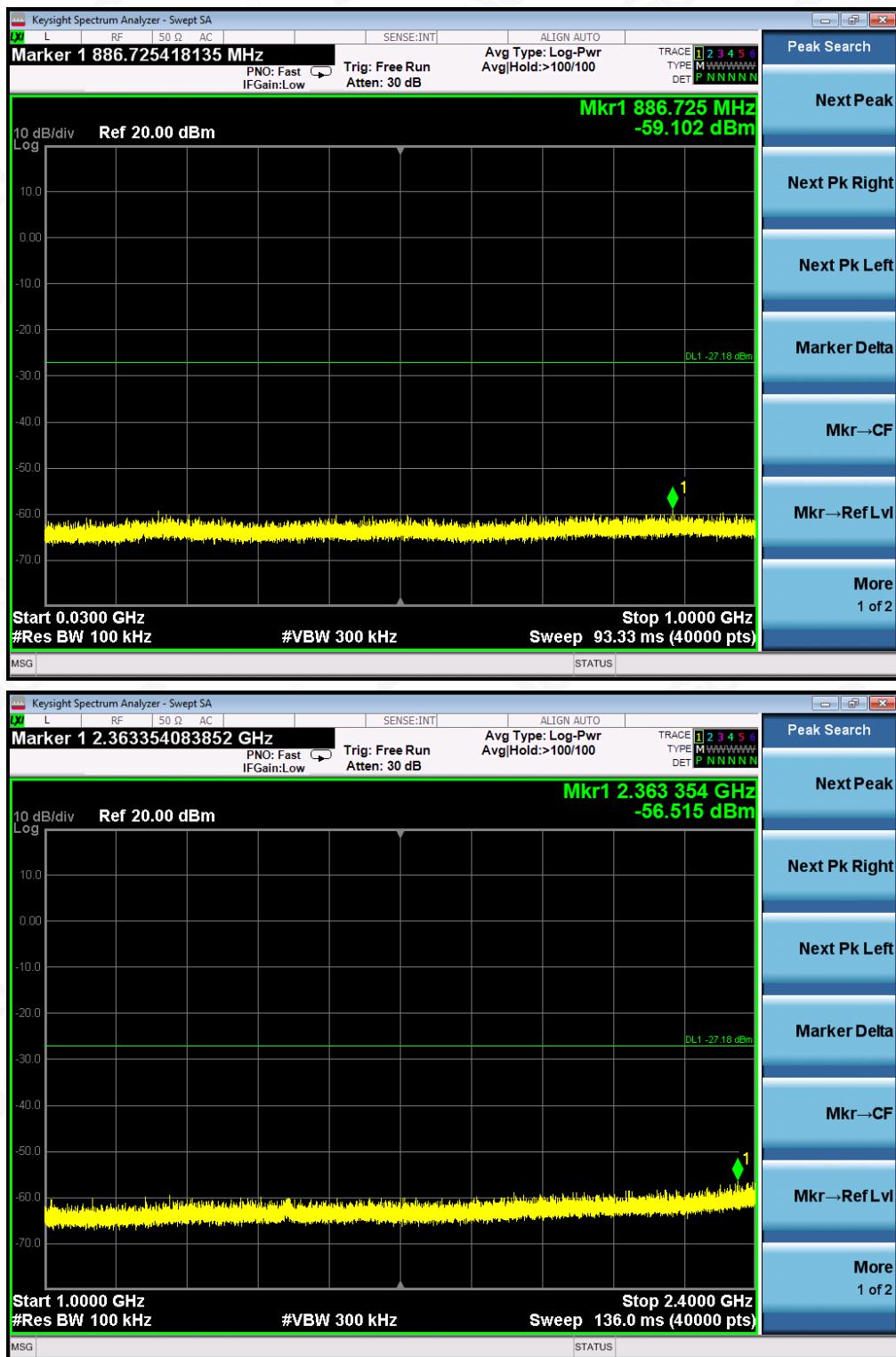
Attestation of Global Compliance

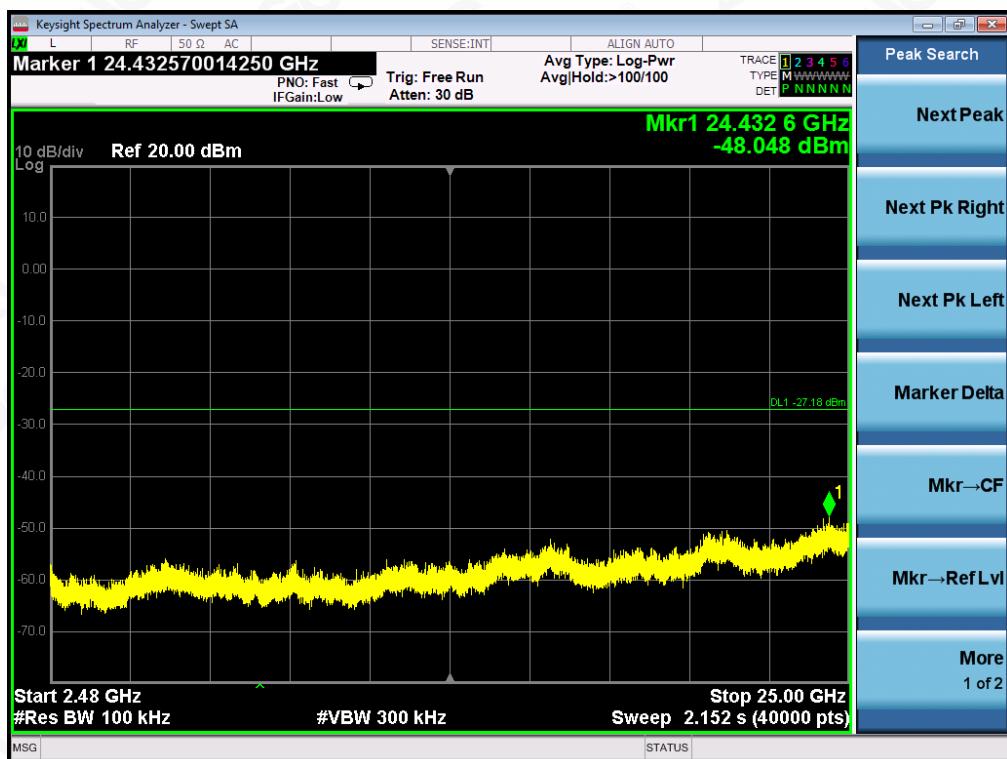
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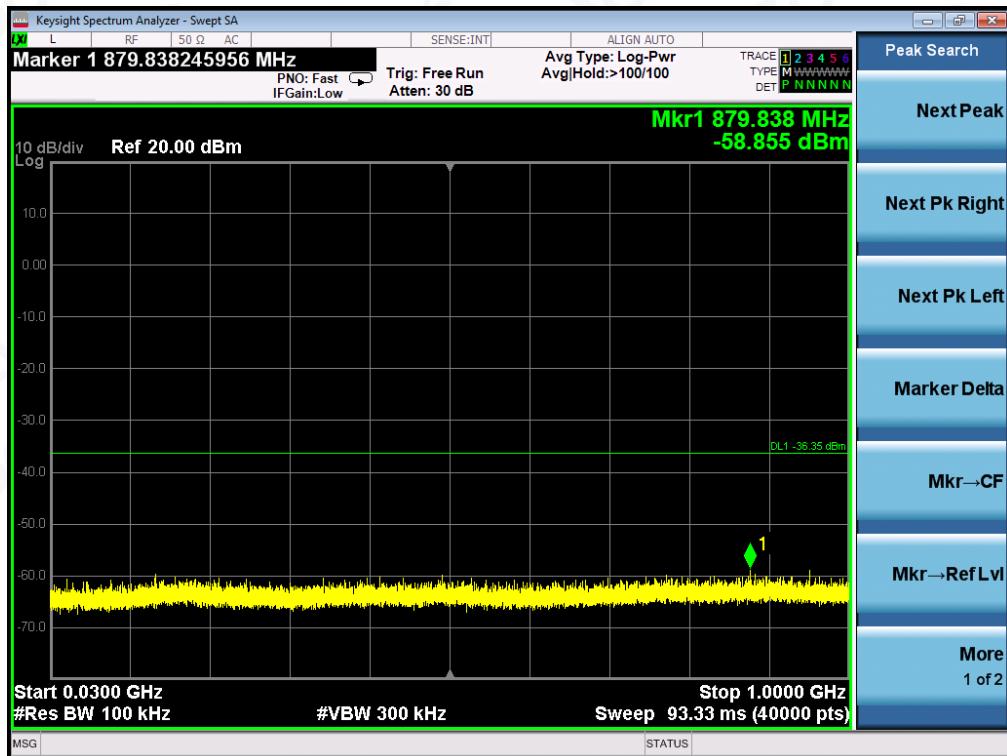
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11n20 FOR MODULATION IN HIGH CHANNEL





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

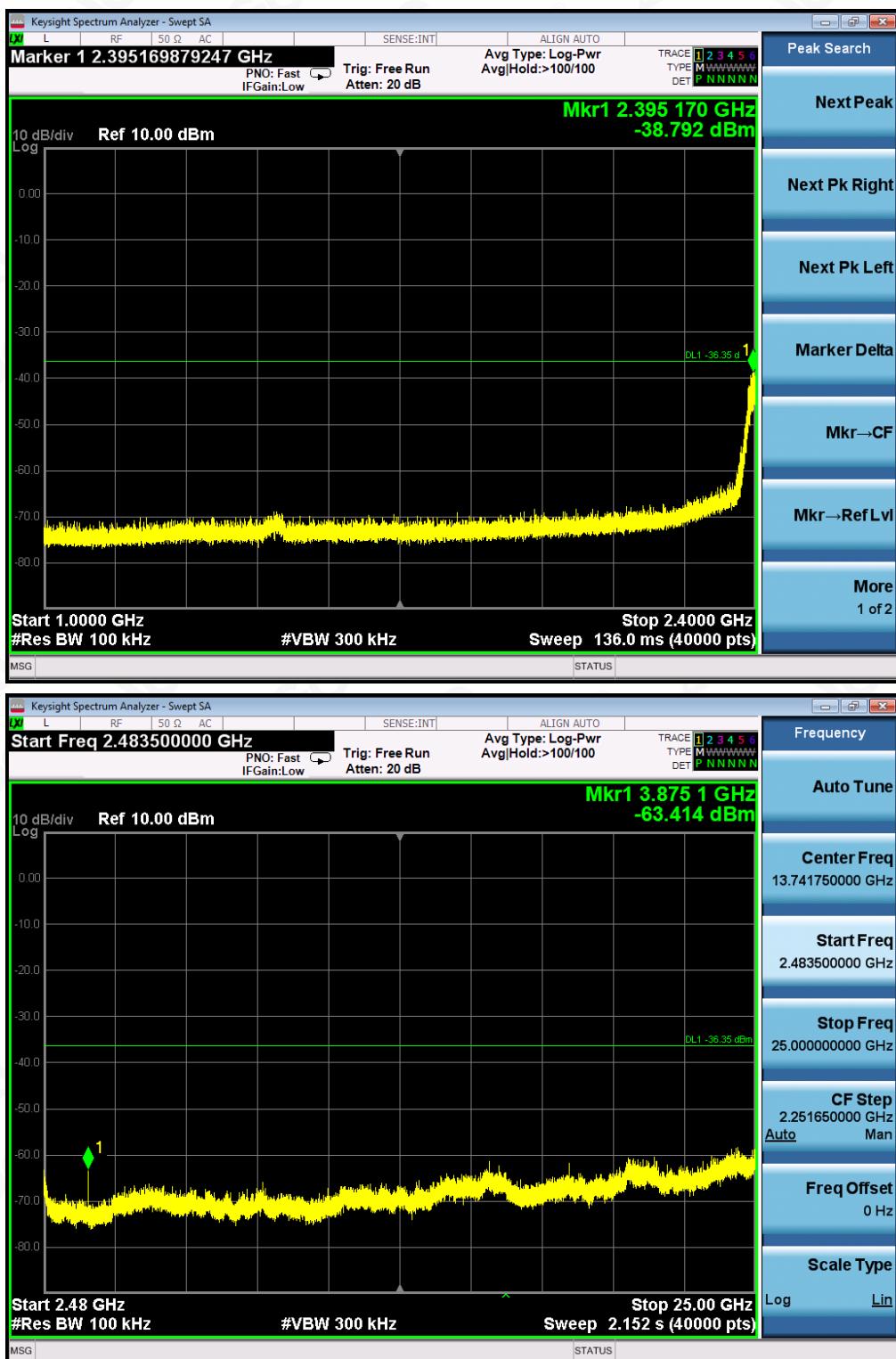


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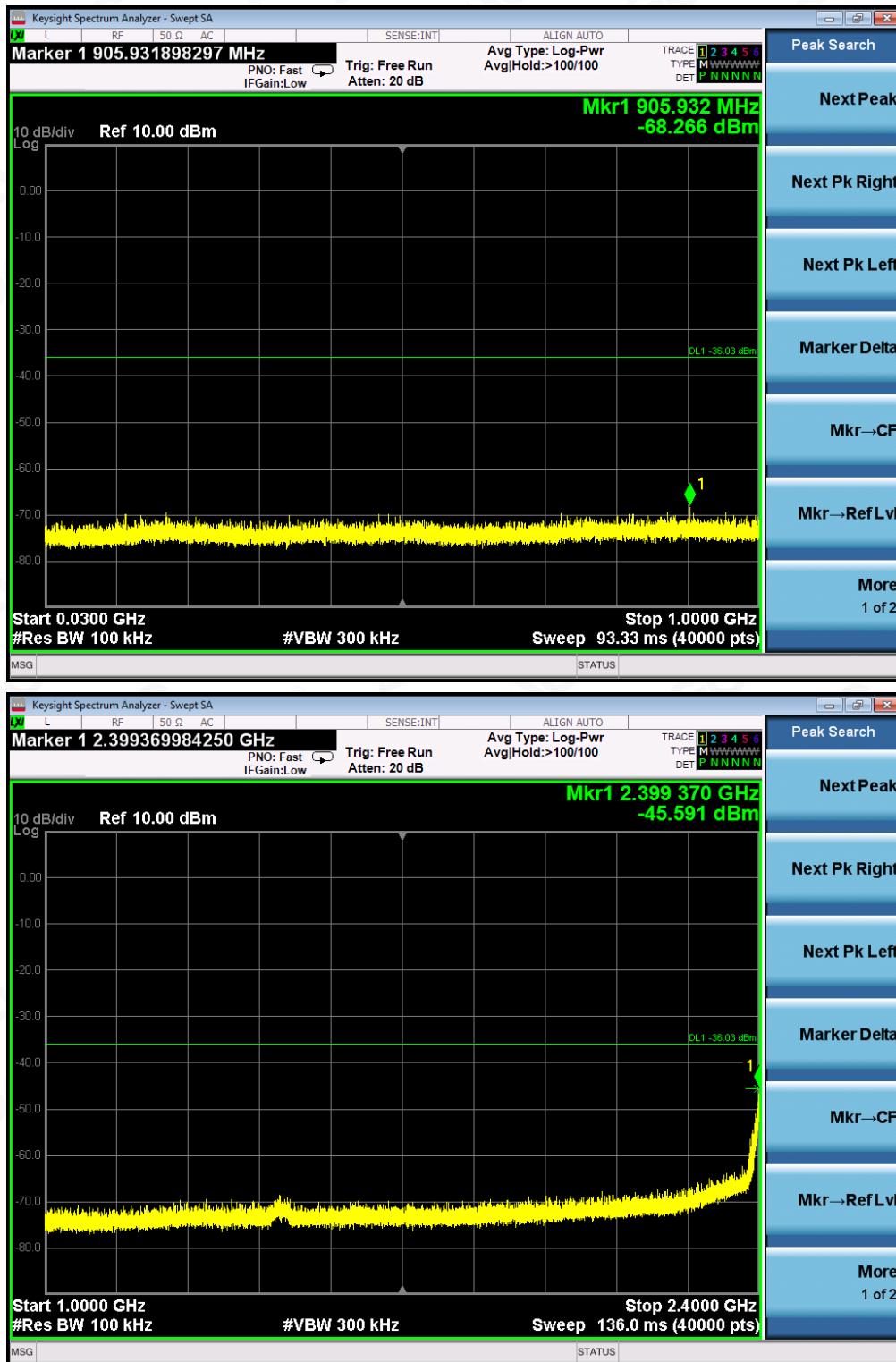
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11n40 FOR MODULATION IN MIDDLE CHANNEL

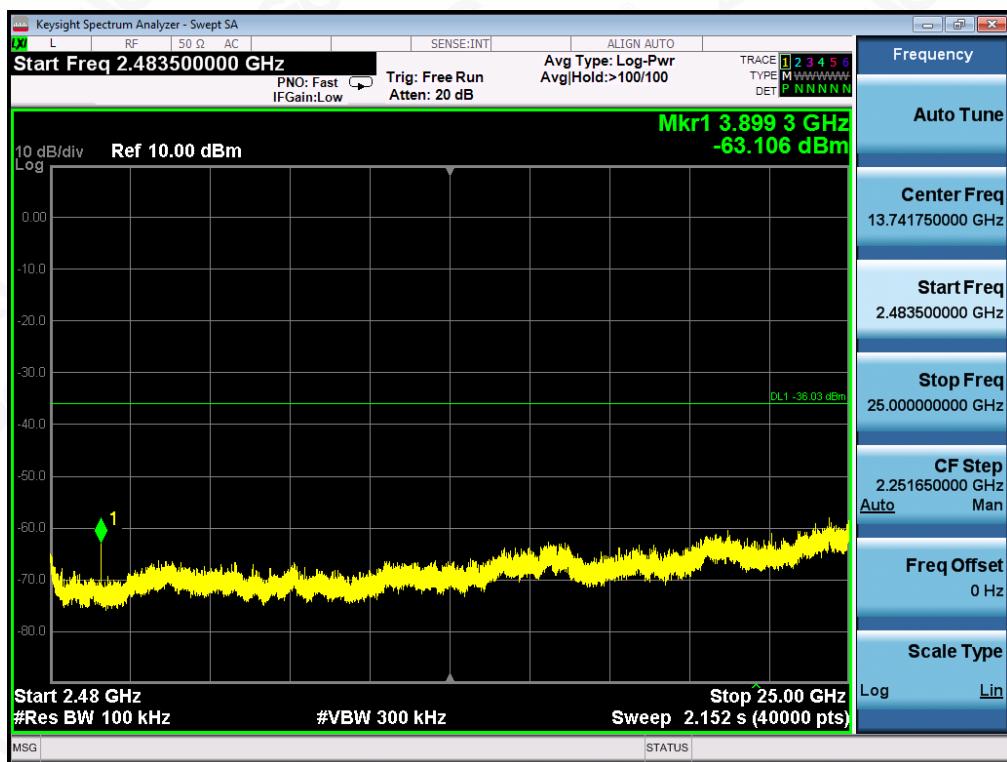


Attestation of Global Compliance

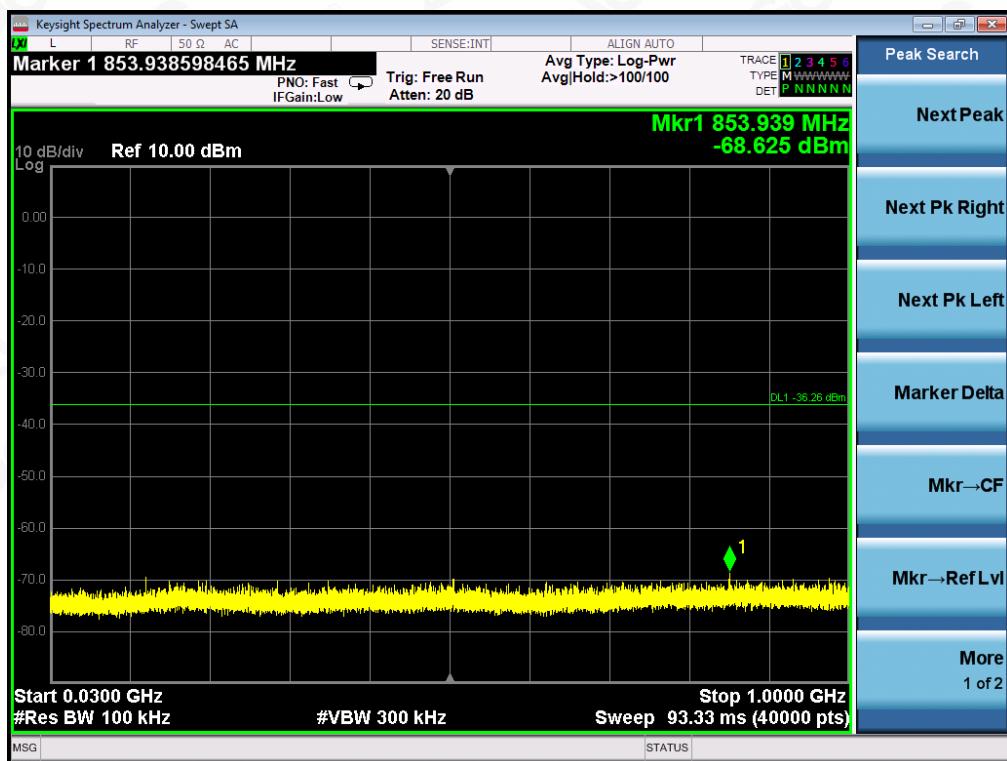
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11n40 FOR MODULATION IN HIGH CHANNEL

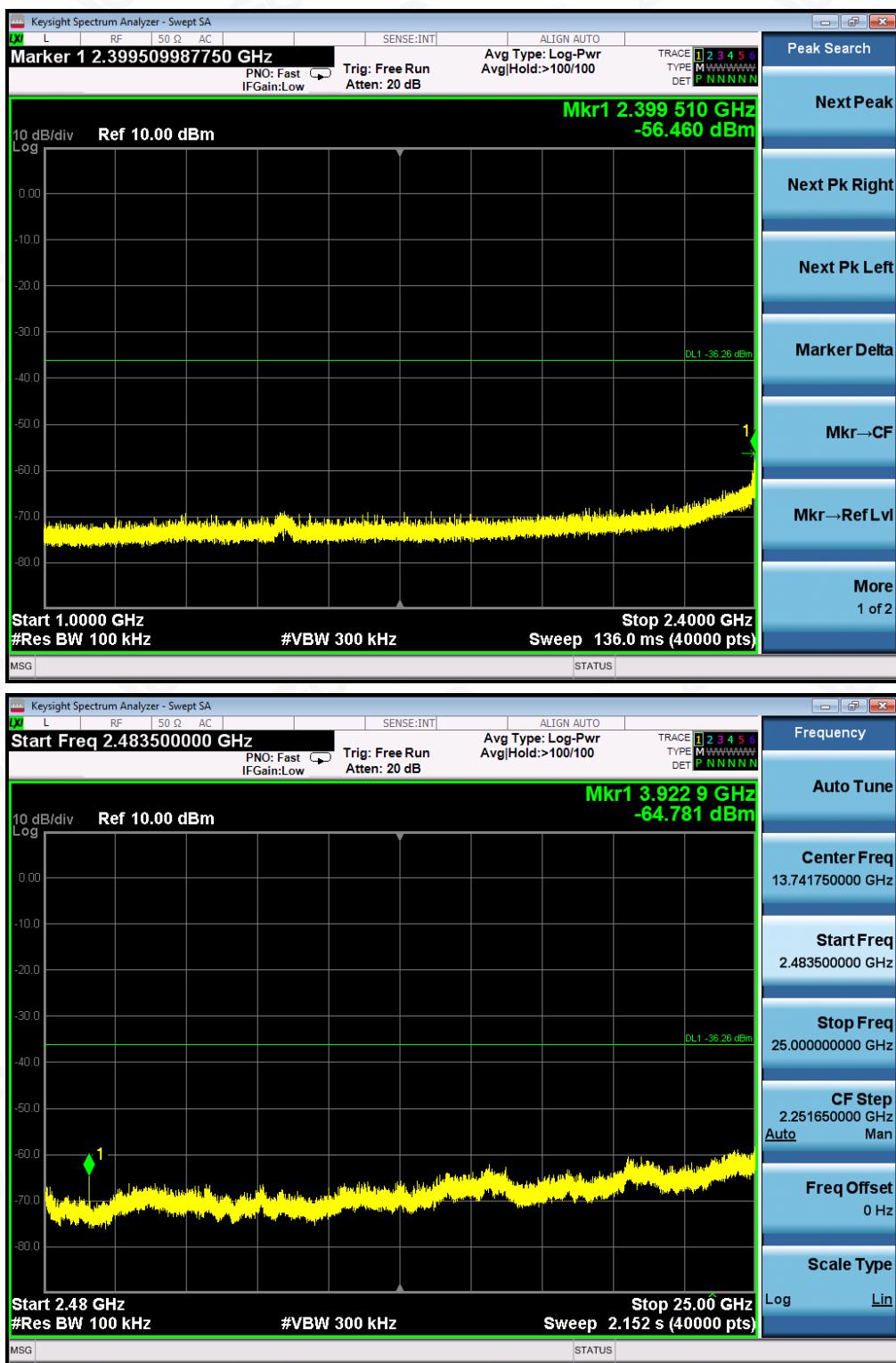


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Note: Two transmit chains had been tested, the chain 1 was the worst case and record in the test report.



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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				
TEST MODE	802.11g with data rate 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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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



802.11b TEST RESULT AT CHAIN 2

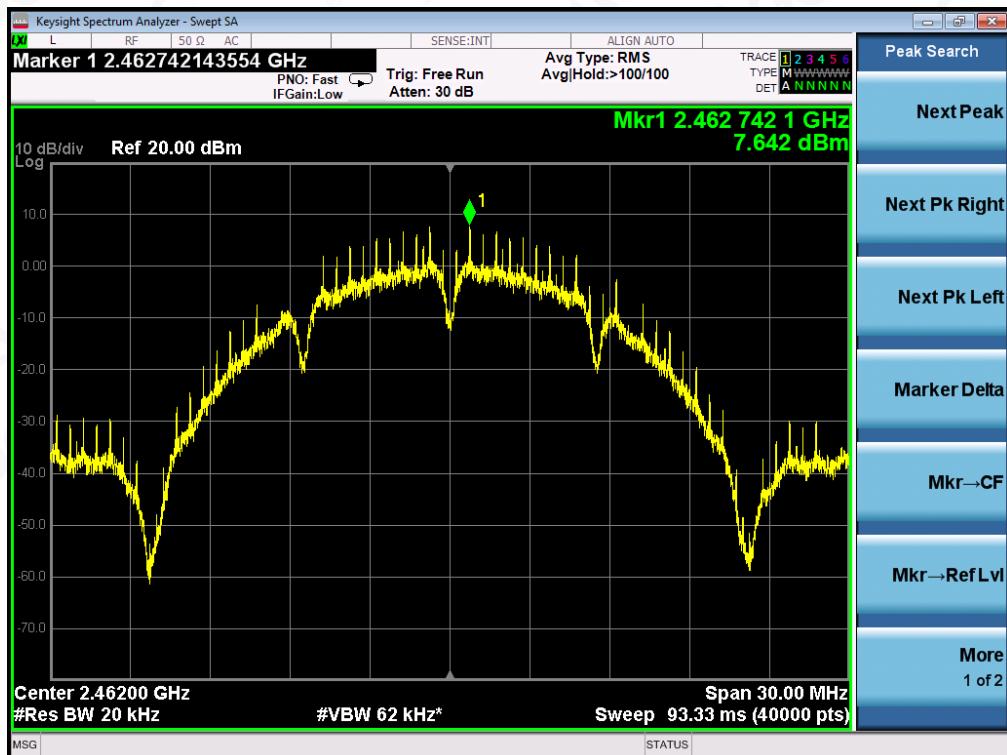
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



Attestation of Global Compliance

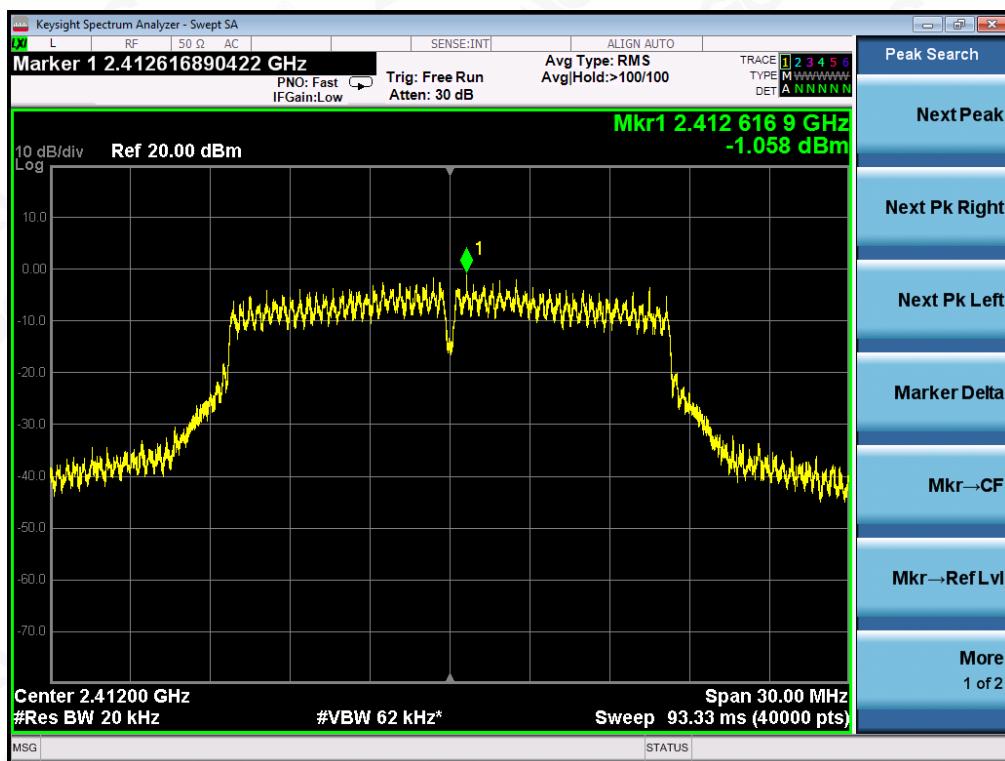
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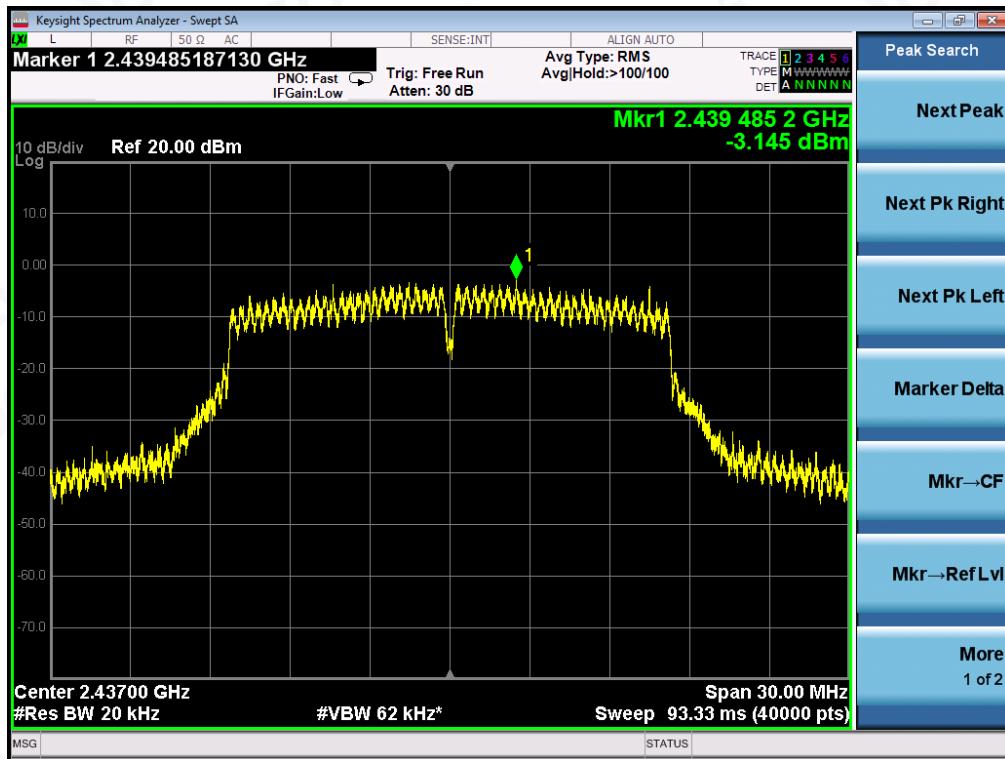
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802.11g TEST RESULT AT CHAIN 1

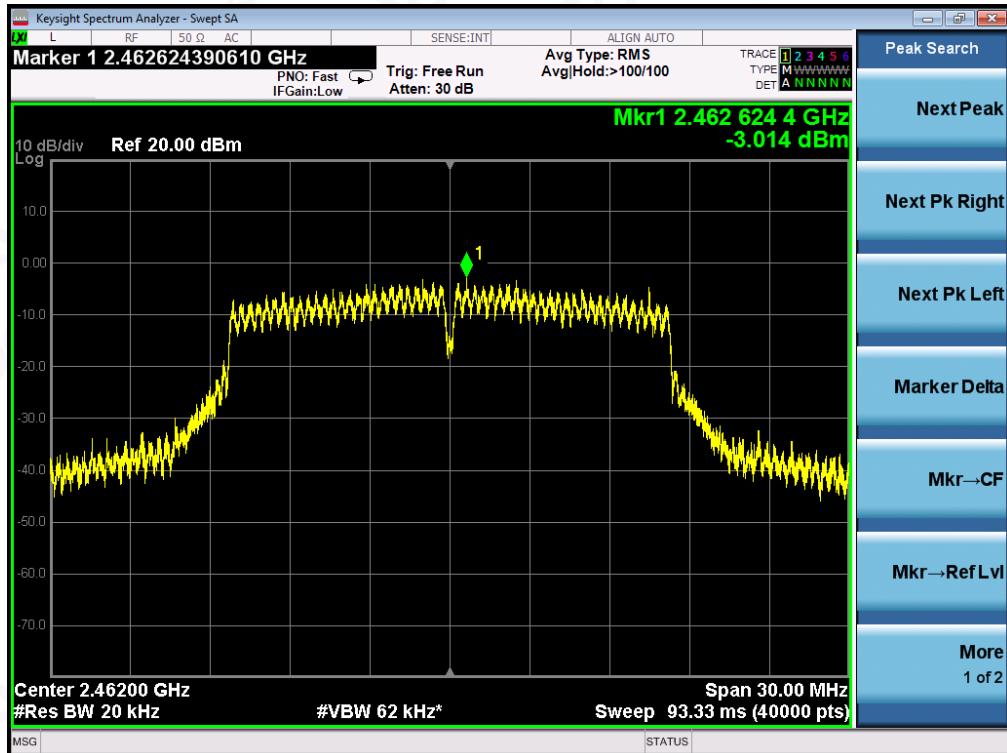
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

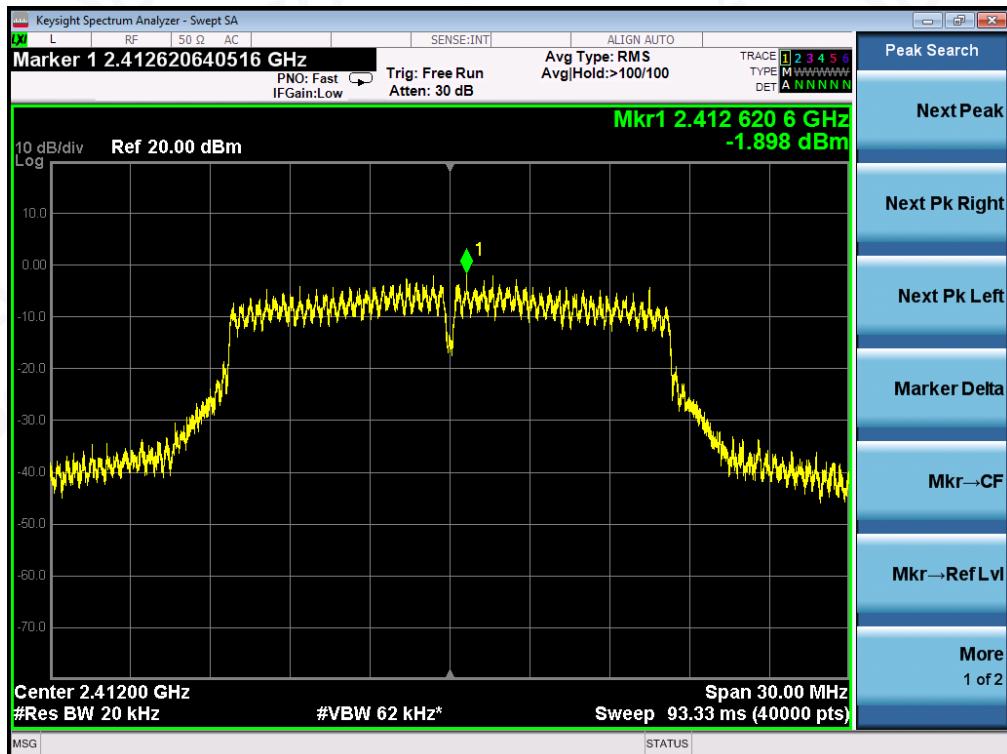


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



802.11g TEST RESULT AT CHAIN 2

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



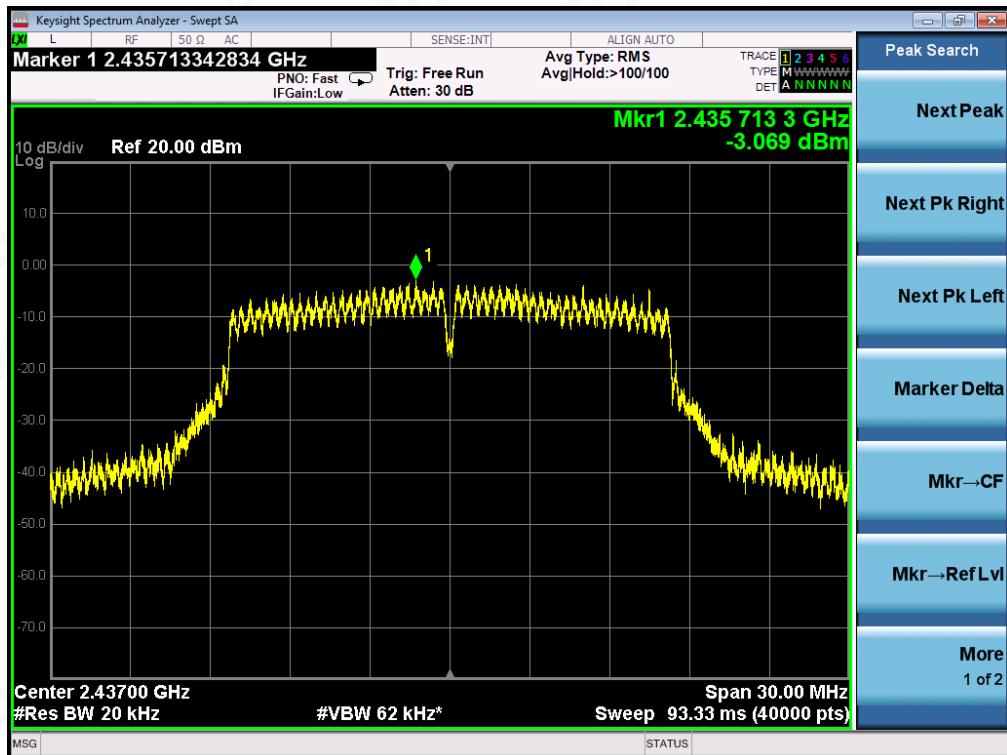
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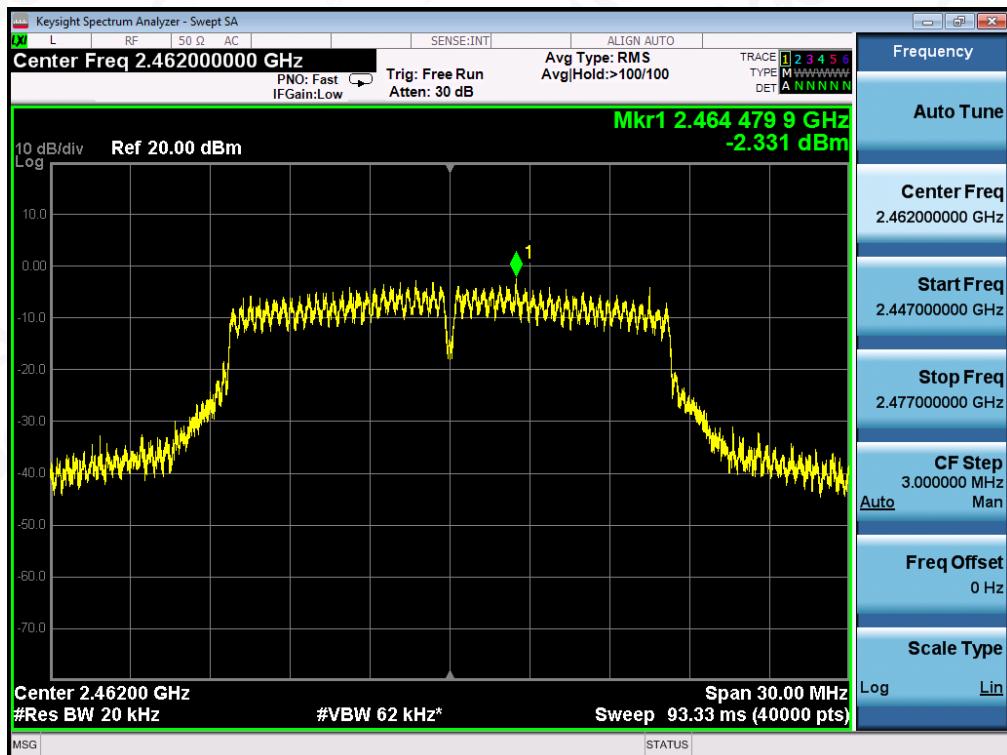
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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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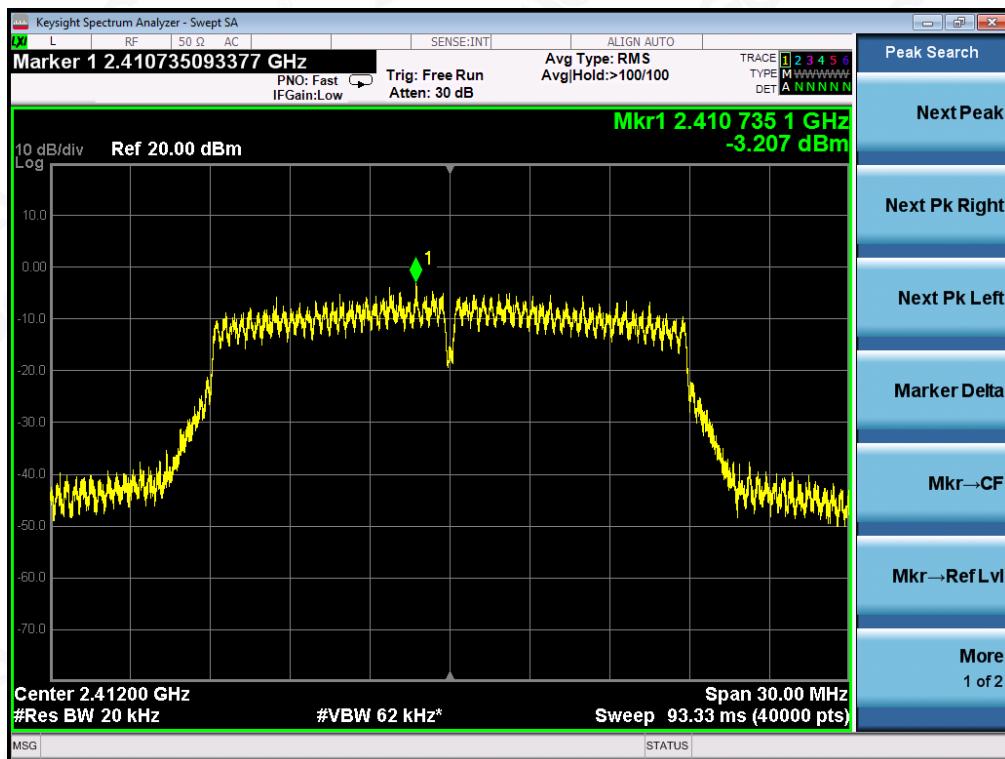
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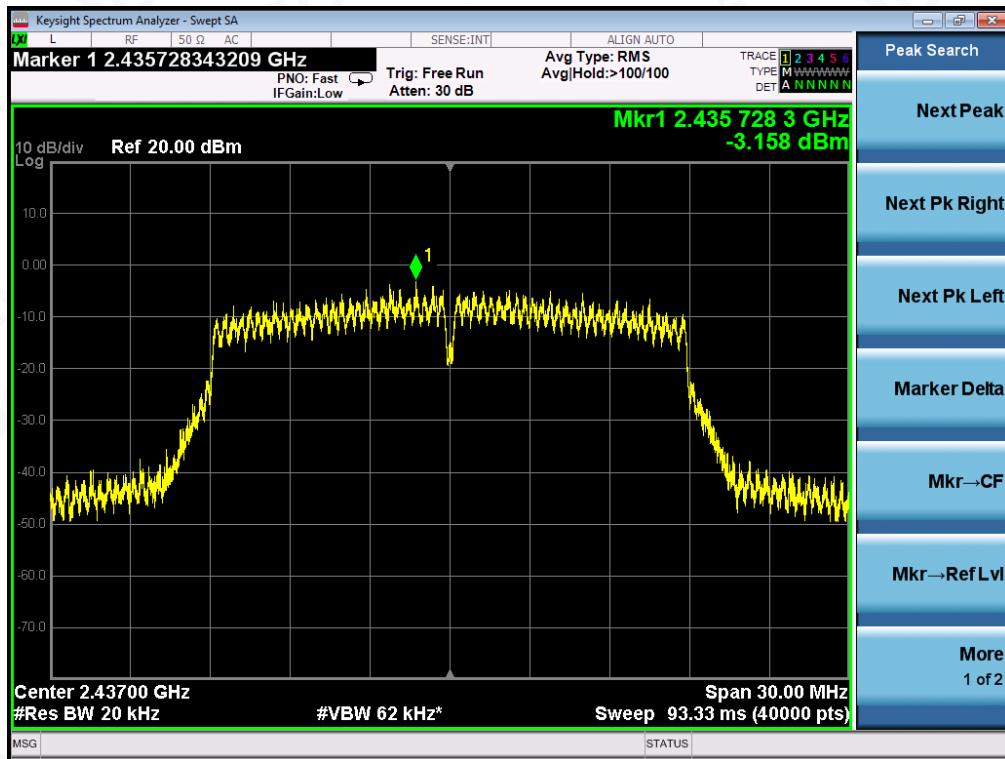
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802.11n 20 TEST RESULT AT CHAIN 1

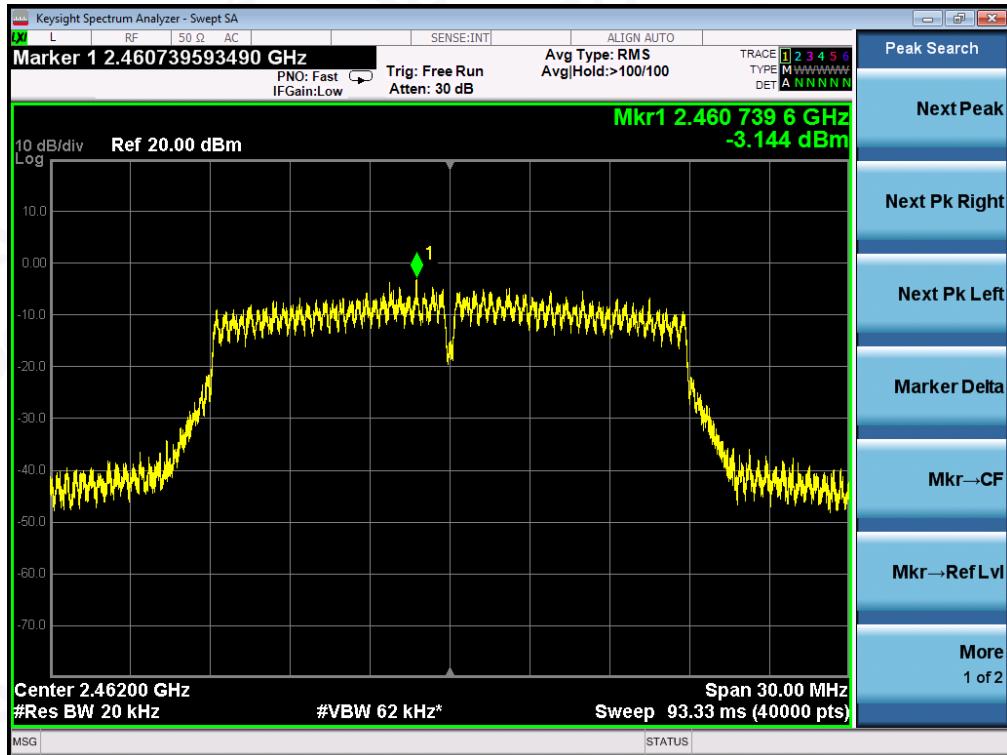
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

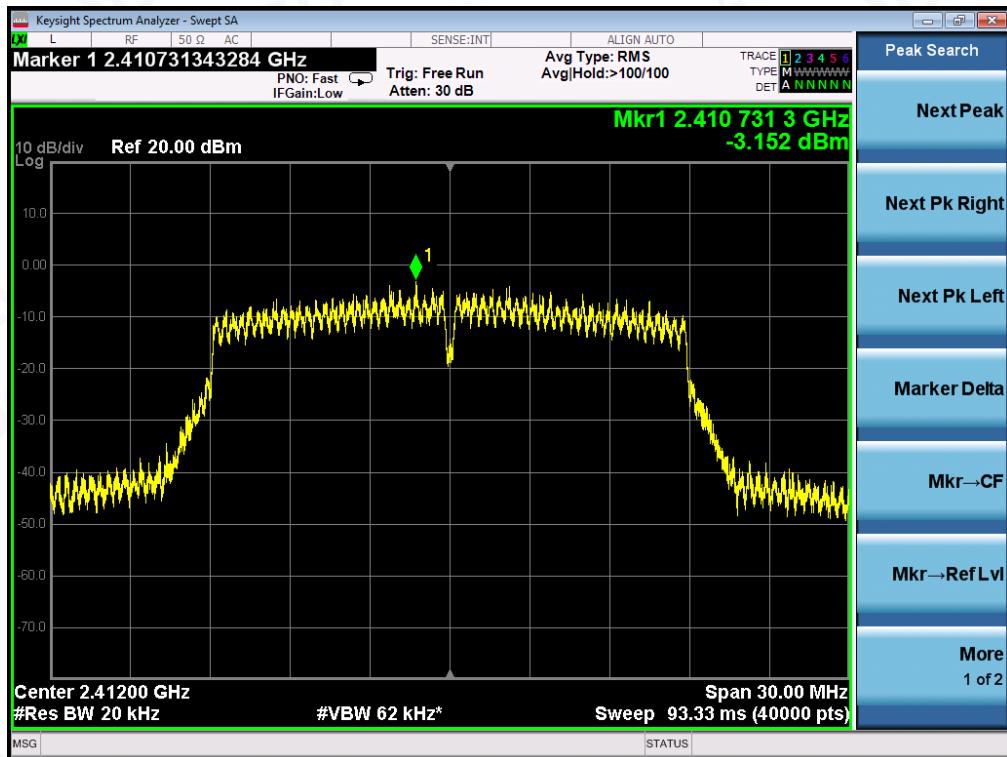


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

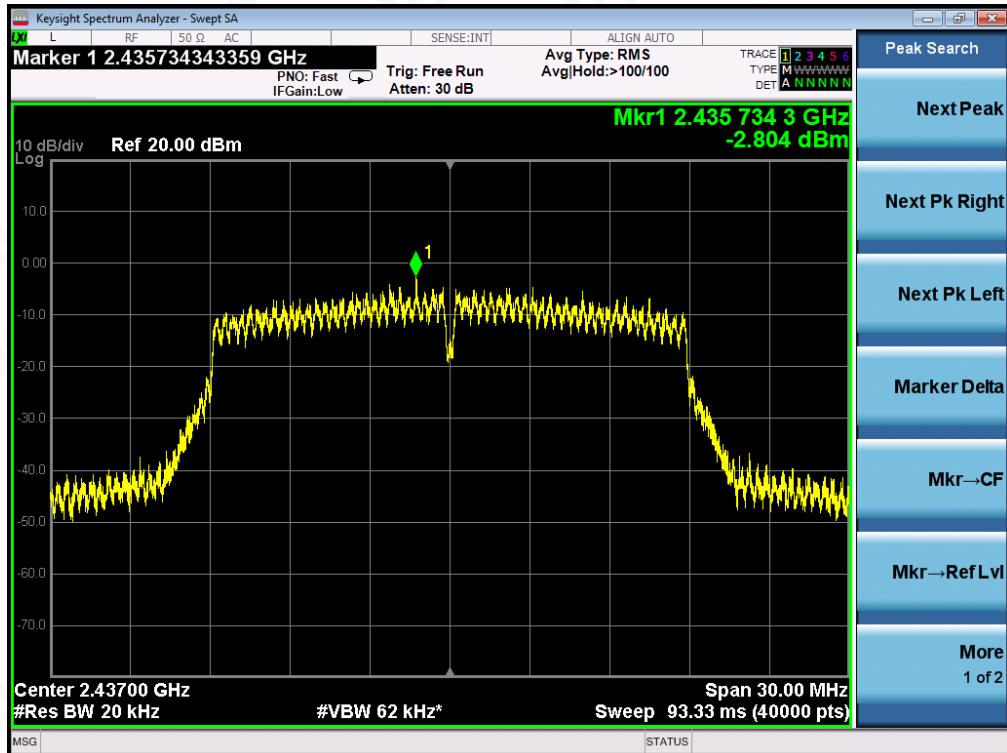


802.11n 20 TEST RESULT AT CHAIN 2

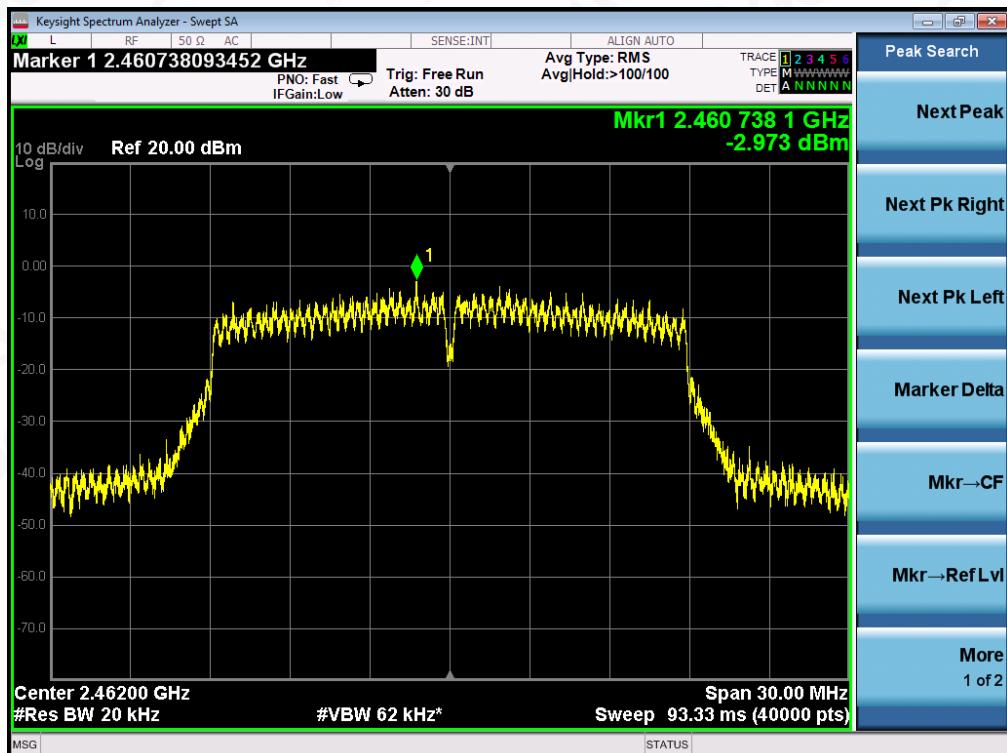
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



Attestation of Global Compliance

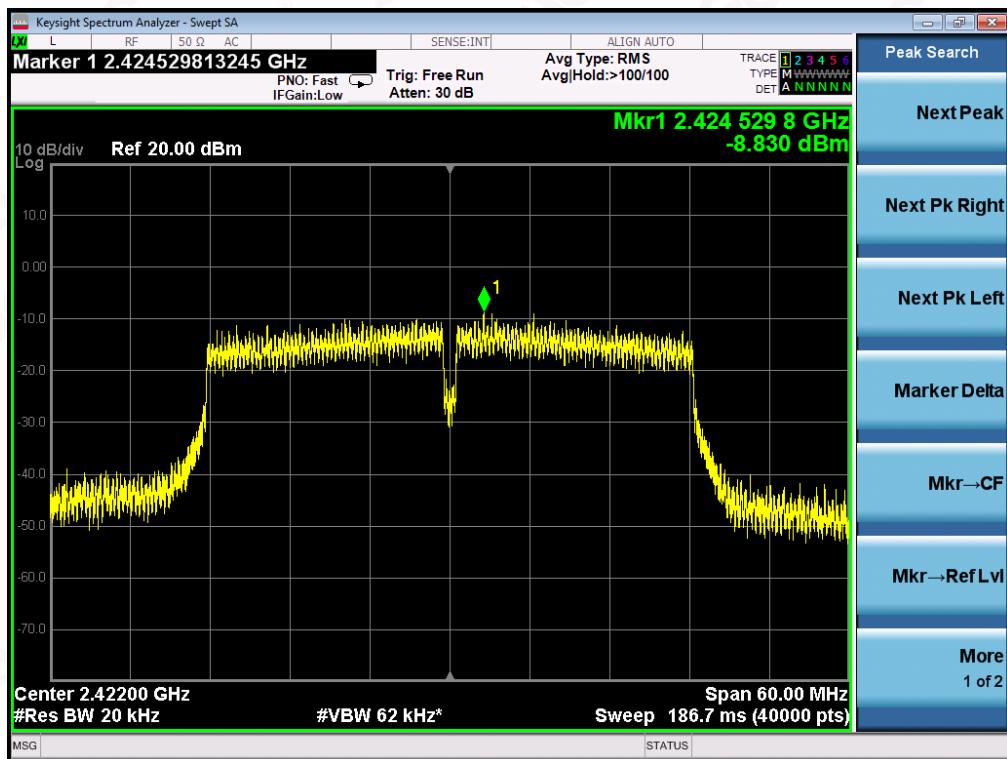
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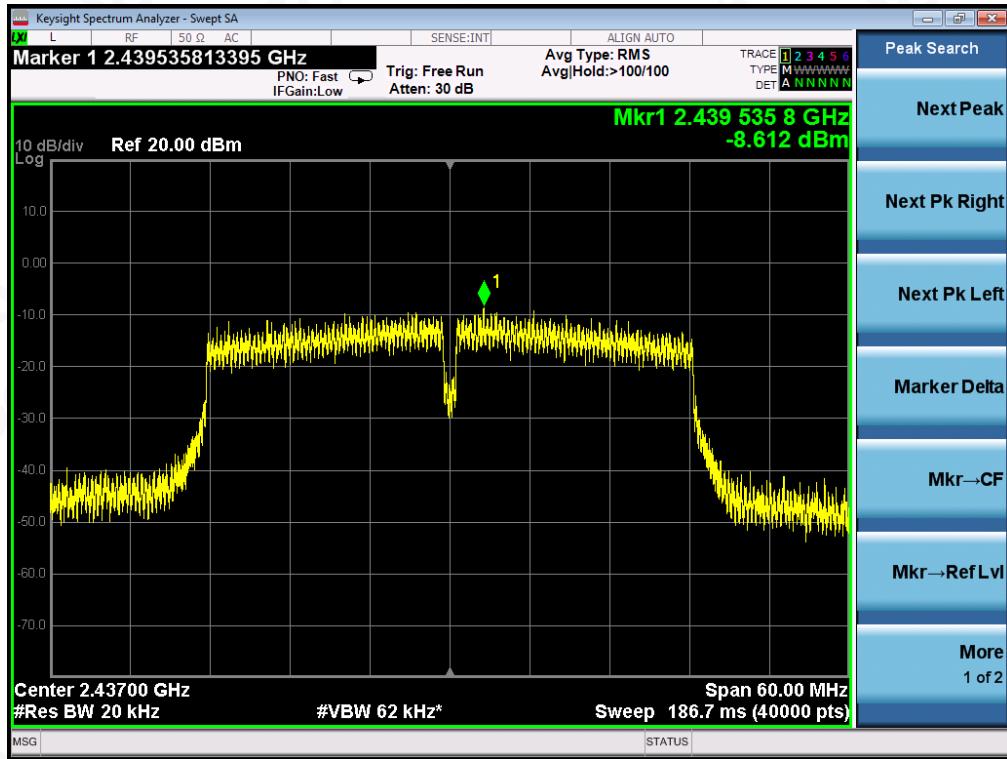
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802.11n 40 TEST RESULT AT CHAIN 1

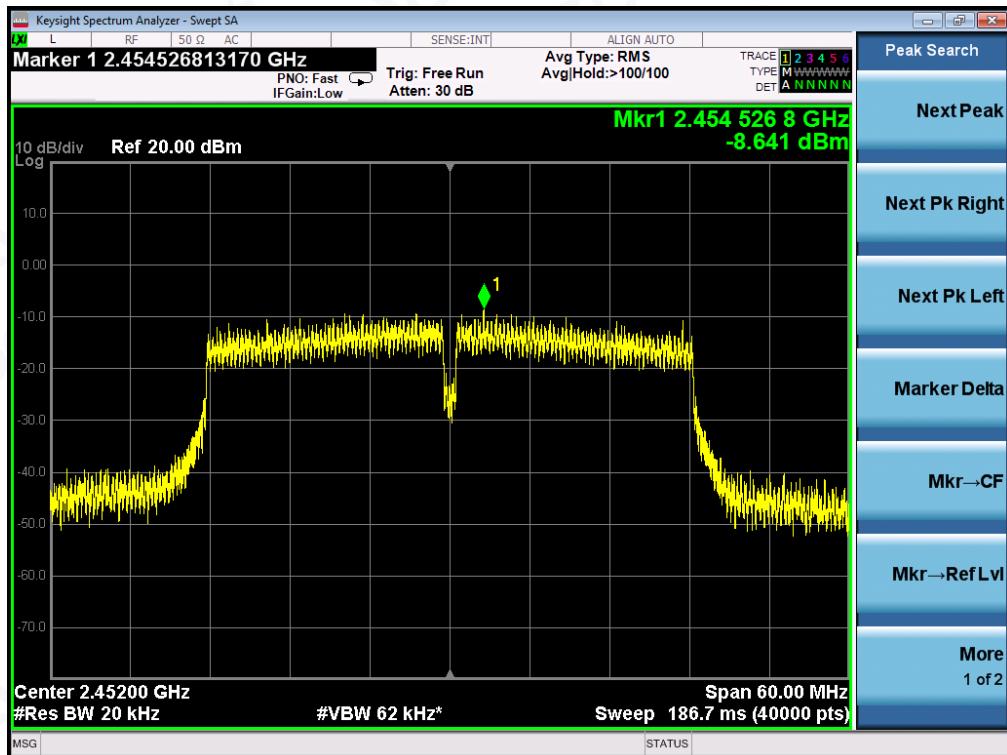
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

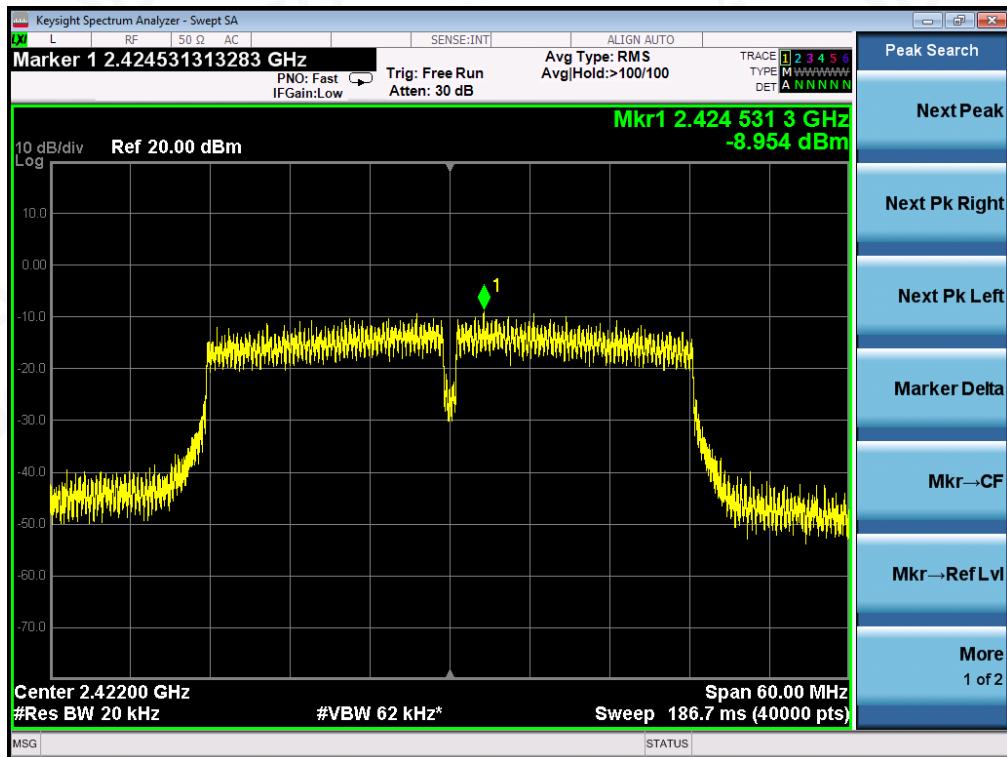


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



802.11n 40 TEST RESULT AT CHAIN 2

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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