



## TEST REPORT

### FCC Part 15 Subpart E

**Test report**

**On Behalf of**

**SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD**

**For**

**Dual band wireless adapter**

**Model No.: XHT-6B12, XHT-6B10**

**FCC ID: 2AKC6XHT-6B12**

**Prepared for :** **SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD**  
**3Foor, B Buliding, DaHong Industrial Park, GuangMin District, Shenzhen City,**  
**China**

**Prepared By :** **Shenzhen HUAK Testing Technology Co., Ltd.**  
**1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street,**  
**Bao'an District, Shenzhen City, China**

**Date of Test:** **Sep. 15, 2018 ~ Sep. 26, 2018**

**Date of Report:** **Sep. 26, 2018**

**Report Number:** **HK1809141092E**

**TEST RESULT CERTIFICATION**

**Applicant's name** .....: SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD  
Address .....: 3Floor, B Buliding, DaHong Industrial Park, GuangMin District,  
Shenzhen City, China

**Manufacture's Name** .....: SHEN ZHEN XIN HUA TIAN TECHNOLOGY CO., LTD  
Address .....: 3Floor, B Buliding, DaHong Industrial Park, GuangMin District,  
Shenzhen City, China

**Product description**

Trade Mark: N/A

Product name.....: Dual band wireless adapter

Model and/or type reference ...: XHT-6B12

Series Model .....: XHT-6B10

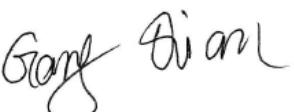
Model Difference .....: All the same except for the model name.

**Standards** .....: 47 CFR FCC Part 15 Subpart E

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**Date of Test** .....

Date (s) of performance of tests .....: Sep. 15, 2018 ~ Sep. 26, 2018  
Date of Issue .....: Sep. 26, 2018  
Test Result .....: **Pass**

Testing Engineer : 

(Gary Qian)

Technical Manager : 

(Eden Hu)

Authorized Signatory : 

(Jason Zhou)

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## 1. SUMMARY

### 1.1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Part 15 Subpart E: Unlicensed National Information Infrastructure Devices](#)

[ANSI C63.10:2013 : American National Standard for Testing Unlicensed Wireless Devices](#)

[KDB 789033 D02 v02r01: Guidelines for compliance testing of unlicensed national information infrastructure \(U-NII\) devices \(part 15, subpart E\)](#)

### 1.2 TEST DESCRIPTION

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.407	6dB Bandwidth	Compliant
§15.407	Emission Bandwidth	Compliant
§15.407	Maximum conducted output power	Compliant
§15.407	Conducted Spurious Emission	Compliant
§15.407	Maximum Conducted Output Power Density	Compliant
§15.209	Radiated Emission	Compliant
§15.407	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

NOTE: N/A stands for not applicable.

### **1.3 TEST FACILITY**

#### **1.3.1 Address of the test laboratory**

Shenzhen HUAK Testing Technology Co., Ltd.

Add.:1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park,Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 32/EN 55032 requirements.

#### **1.3.2 Laboratory accreditation**

The test facility is recognized, certified, or accredited by the following organizations:

#### **IC Registration No.: 21210**

The 3m alternate test site of Shenzhen HUAK Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 21210 on May 24, 2016.

#### **FCC Registration No.: CN1229**

Test Firm Registration Number : 616276

### **1.4 STATEMENT OF THE MEASUREMENT UNCERTAINTY**

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen HUAK Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for HUAK laboratory is reported:

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

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

## 2.GENERAL INFORMATION

### 2.1 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

### 2.2 GENERAL DESCRIPTION OF EUT

Product Name	Dual band wireless adapter
Model/Type reference	XHT-6B12
Power supply	DC5V
Modulation	802.11a/n20/n40/ac20/ac40/ac80 BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM,OFDM
Operation Frequency	5150 MHz~5250MHz;5725 MHz~5850MHz
Channel number	15
Antenna Designation	Internal antenna and external antenna(Use of reverse SMA connector)
Number of transmit chain	2(802.11a used antenna 0, 802.11n20/n40/ac used two antennas)
Directional gain	All transmit signals are completely uncorrelated with each other
Antenna Gain	Internal antenna: 5dBi External antenna: 5dBi
Hardware Version	8812BU_D7A. V1.0
Software Version	V1.0

Note: For more details, refer to the user's manual of the EUT.

### 2.3. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency	Frequency Band	Channel Number	Frequency
5150 GHz~ 5250GHz	36	5180 MHz	5725 GHz~ 5850GHz	149	5745 MHz
	38	5190 MHz		151	5755 MHz
	40	5200 MHz		153	5765 MHz
	42	5210 MHz		155	5775MHz
	44	5220 MHz		157	5785 MHz
	46	5230 MHz		159	5795 MHz
	48	5240 MHz		161	5805 MHz
				165	5825MHz

Note: For 20MHZ bandwidth system use Channel 36,40,44,48,149,153,157,161,165; For 40MHZ bandwidth system use Channel 38,46,151,159; For 80MHZ bandwidth system use Channel 42,155

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

This submittal(s) (test report) is intended for FCC ID: 2AKC6XHT-6B12 filing to comply with the FCC Part 15 requirements.

## 2.5. ACCESSORIES USED

Item	Equipment	Model No.	Specification	Remark
1	Dell PC	Ins 14-7460-D1525S	N/A	Provided by test lab
2	PC adapter	YH-195-462	DC19.5V/4.62A	Provided by test lab

## 2.6 EQUIPMENT USED

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 28, 2017	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 28, 2017	1 Year
4.	Horn Antenna	Schewarzbeck	BBHA 9170	HKE-090	Dec. 28, 2017	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2017	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 28, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 28, 2017	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 28, 2017	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 28, 2017	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Dec. 28, 2017	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 28, 2017	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 28, 2017	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	Dec. 28, 2017	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Dec. 28, 2017	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2017	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Dec. 28, 2017	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Dec. 28, 2017	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 28, 2017	3 Year

The calibration interval was one year

### 3. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate(Mbps)
802.11a/n20/ac20	36,40,44,48,149,153,157,161,165	36,38,48,149, 157,165	OFDM	6/6.5
802.11n40/ac40	38,46,151,159	38,46, 151,159	OFDM	13.5
802.11ac80	42,155	42,155	OFDM	13.5

**Note:**

1. The EUT has been set to operate continuously on tested channel 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.

## 4. MAXIMUM CONDUCTED OUTPUT POWER

### 4.1. MEASUREMENT PROCEDURE

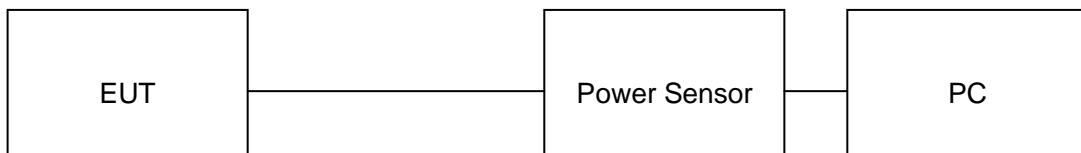
For average power test:

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 KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

### 4.2. TEST SET-UP

#### AVERAGE POWER SETUP



#### 4.3. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION			
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
5180	6.42	24	Pass
5200	6.57	24	Pass
5240	6.61	24	Pass
5745	6.72	30	Pass
5785	6.45	30	Pass
5825	6.68	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION					
Frequency (MHz)	Average Power Chain 0(dBm)	Average Power Chain 1(dBm)	Average Power Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5180	2.72	2.25	5.50	24	Pass
5200	2.58	2.32	5.46	24	Pass
5240	2.54	2.18	5.37	24	Pass
5745	2.25	2.12	5.20	30	Pass
5785	2.36	2.22	5.30	30	Pass
5825	2.18	1.98	5.09	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11AC20 MODULATION					
Frequency (MHz)	Average Power Chain 0(dBm)	Average Power Chain 1(dBm)	Average Power Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5180	2.15	2.04	5.11	24	Pass
5200	2.21	2.15	5.19	24	Pass
5240	2.16	2.05	5.12	24	Pass
5745	2.20	2.18	5.20	30	Pass
5785	2.18	2.06	5.13	30	Pass
5825	2.21	2.13	5.18	30	Pass

<b>LIMITS AND MEASUREMENT RESULT FOR 802.11N40 MODULATION</b>					
<b>Frequency (MHz)</b>	<b>Average Power Chain 0(dBm)</b>	<b>Average Power Chain 1(dBm)</b>	<b>Average Power Total(dBm)</b>	<b>Applicable Limits (dBm)</b>	<b>Pass or Fail</b>
5190	0.51	0.35	3.44	24	Pass
5230	0.48	0.36	3.43	24	Pass
5755	0.38	0.41	3.41	30	Pass
5795	0.74	0.58	3.67	30	Pass

<b>LIMITS AND MEASUREMENT RESULT FOR 802.11AC40 MODULATION</b>					
<b>Frequency (MHz)</b>	<b>Average Power Chain 0(dBm)</b>	<b>Average Power Chain 1(dBm)</b>	<b>Average Power Total(dBm)</b>	<b>Applicable Limits (dBm)</b>	<b>Pass or Fail</b>
5190	0.52	0.18	3.36	24	Pass
5230	0.67	0.05	3.38	24	Pass
5755	0.74	0.17	3.47	30	Pass
5795	0.53	0.33	3.44	30	Pass

<b>LIMITS AND MEASUREMENT RESULT FOR 802.11AC80 MODULATION</b>					
<b>Frequency (MHz)</b>	<b>Average Power Chain 0(dBm)</b>	<b>Average Power Chain 1(dBm)</b>	<b>Average Power Total(dBm)</b>	<b>Applicable Limits (dBm)</b>	<b>Pass or Fail</b>
5210	-1.58	-1.42	1.51	24	Pass
5775	-1.69	-1.52	1.41	30	Pass

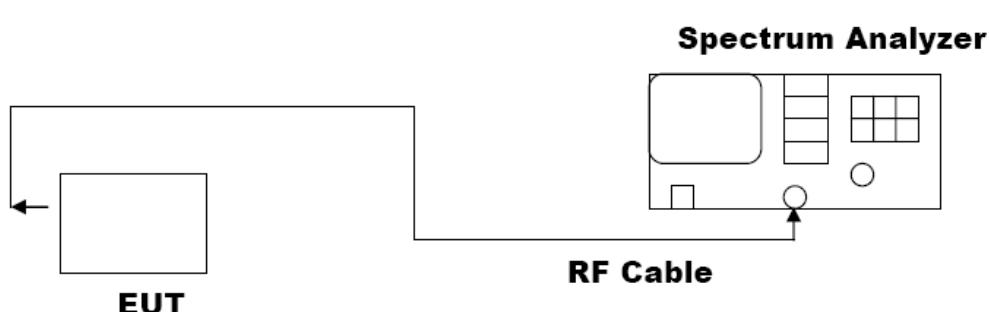
## 5. 6dB BANDWIDTH

### 5.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 100kHz.
4. Set the VBW  $\geq 3 \times$  RBW. Detector = Peak. Trace mode = max hold.
5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.

**Note:** The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

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



### 5.3. LIMITS AND MEASUREMENT RESULTS

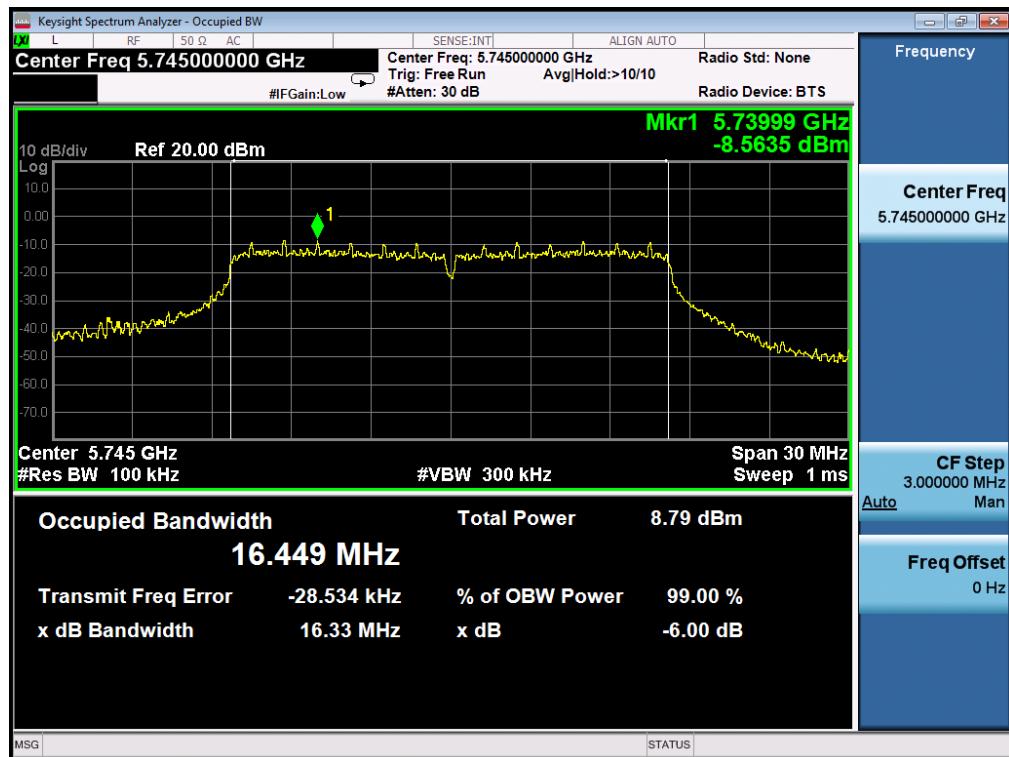
LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	5745MHz	16.33	PASS
	5785MHz	16.33	PASS
	5825MHz	16.33	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	5745MHz	17.19	PASS
	5785MHz	16.96	PASS
	5825MHz	17.16	PASS
	5755MHz	36.09	PASS
	5795MHz	35.80	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11AC20/40/80 MODULATION			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	5745MHz	17.29	PASS
	5785MHz	16.92	PASS
	5825MHz	16.93	PASS
	5755MHz	35.81	PASS
	5795MHz	36.36	PASS
	5775MHz	75.29	PASS

## 802.11a20 TEST RESULT

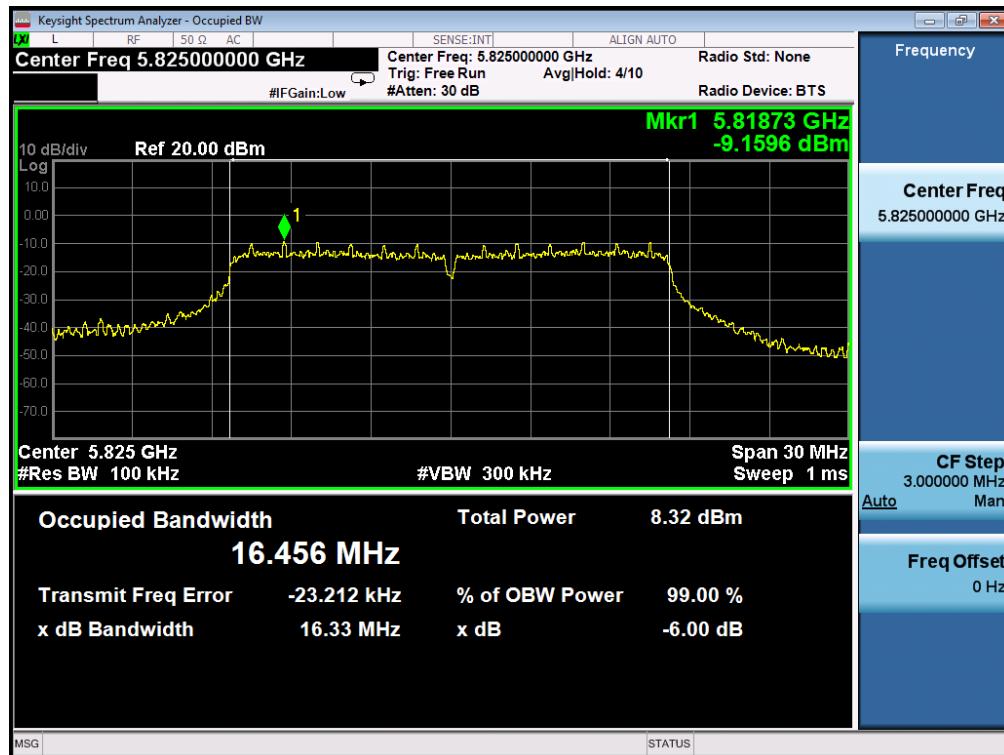
### TEST PLOT OF BANDWIDTH FOR 5745MHz



### TEST PLOT OF BANDWIDTH FOR 5785MHz



## TEST PLOT OF BANDWIDTH FOR 5825MHz

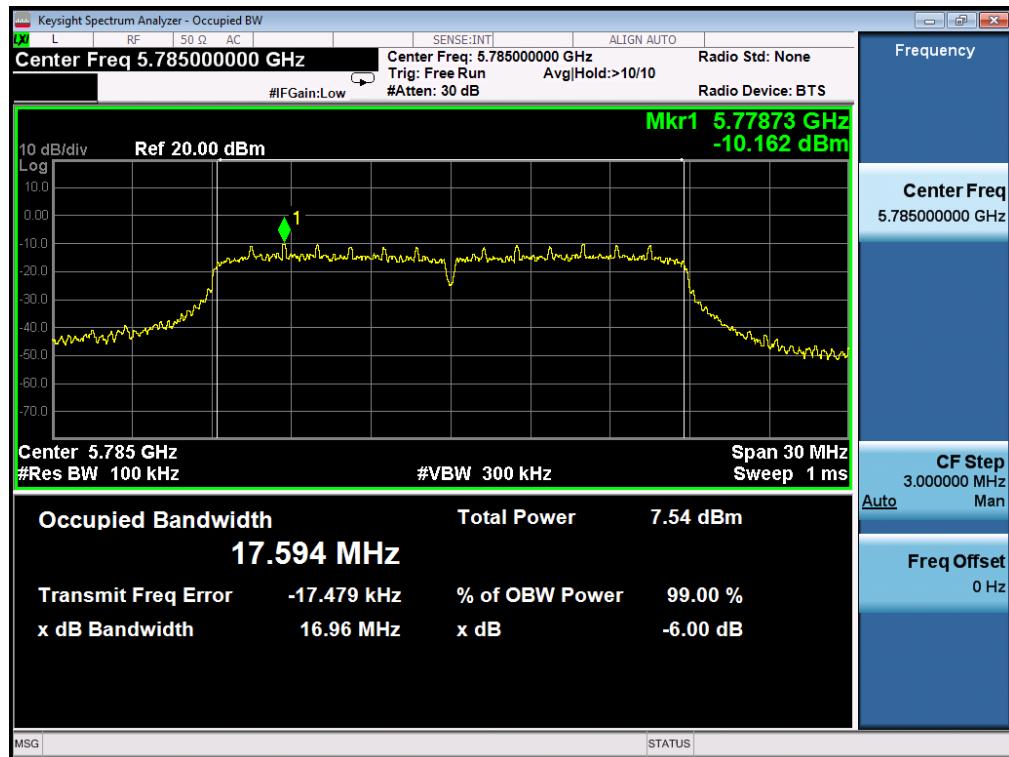


## 802.11n20 TEST RESULT

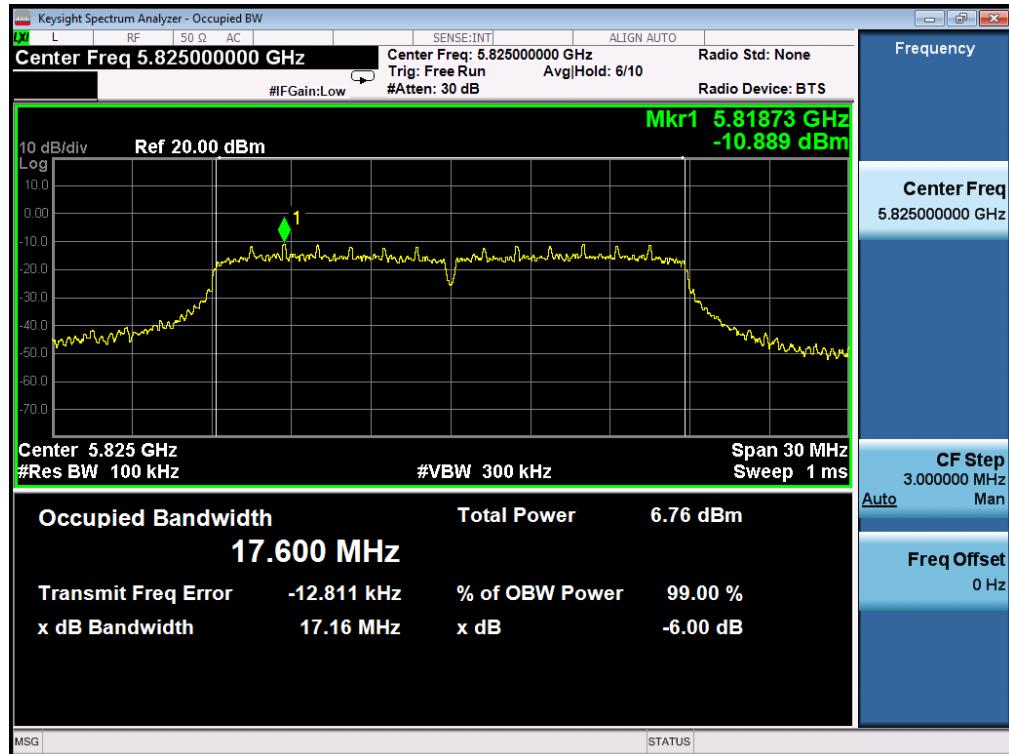
## TEST PLOT OF BANDWIDTH FOR 5745MHz



## TEST PLOT OF BANDWIDTH FOR 5785MHz

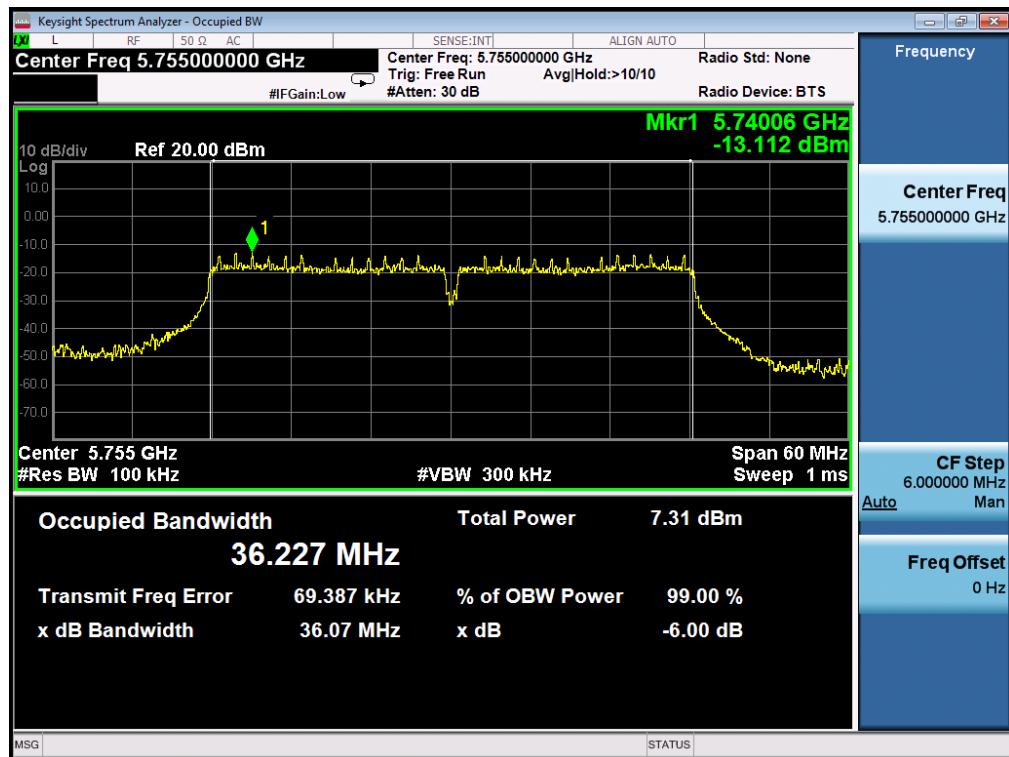


## TEST PLOT OF BANDWIDTH FOR 5825MHz

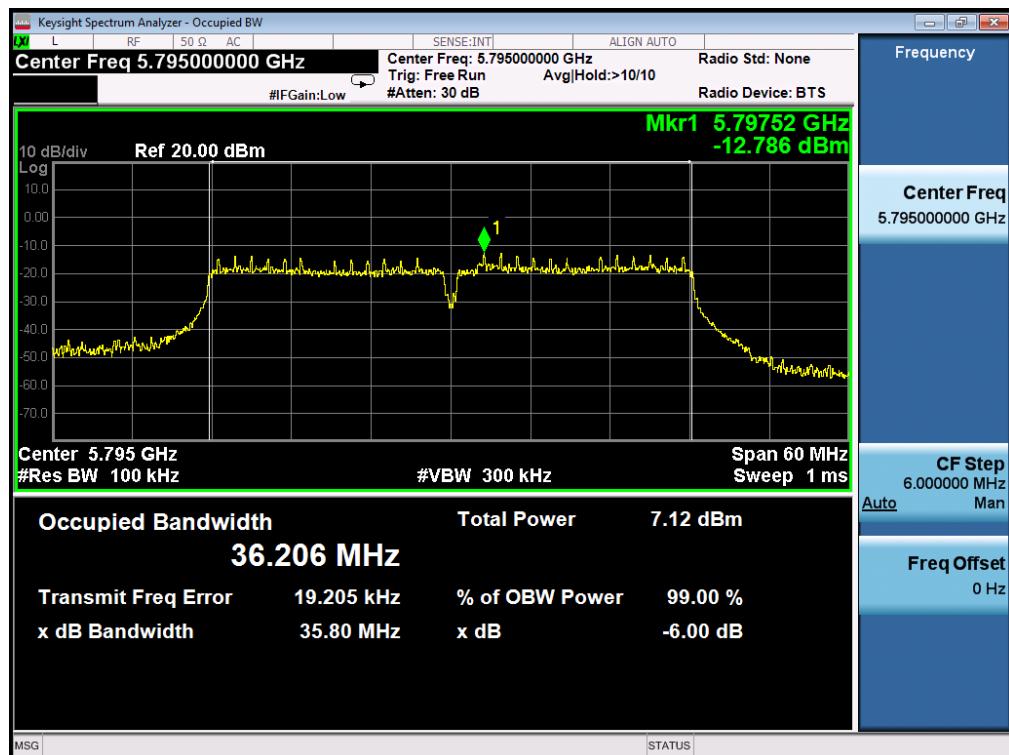


## 802.11n40 TEST RESULT

### TEST PLOT OF BANDWIDTH FOR 5755MHz

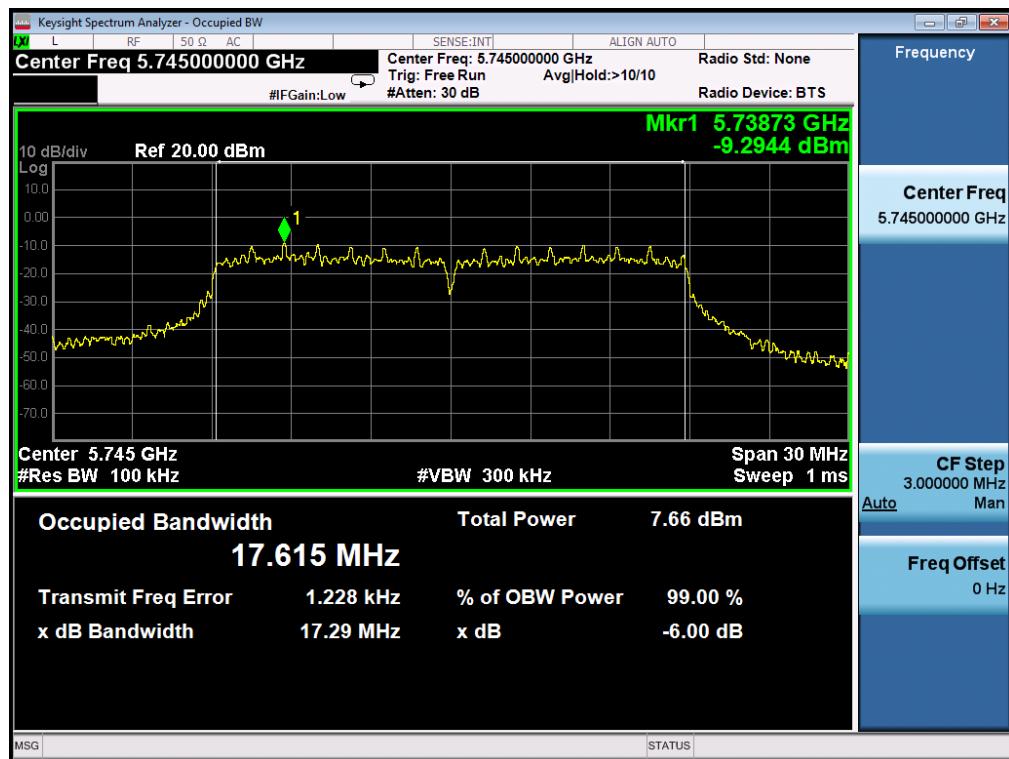


### TEST PLOT OF BANDWIDTH FOR 5795MHz

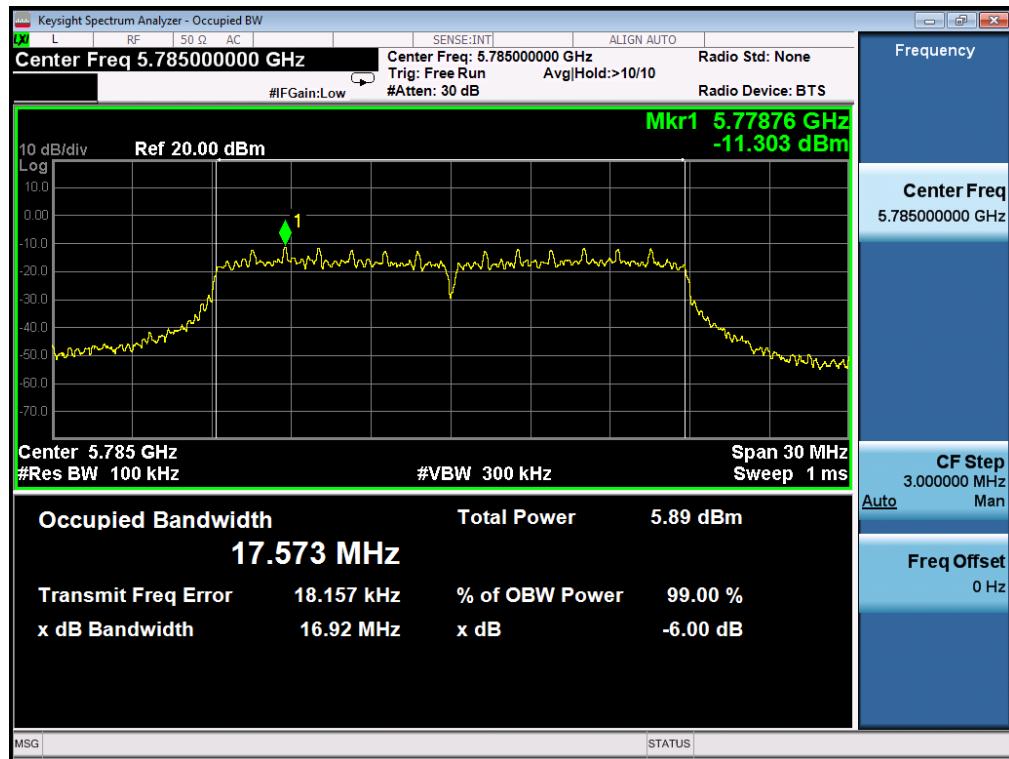


## 802.11ac20 TEST RESULT

### TEST PLOT OF BANDWIDTH FOR 5745MHz



### TEST PLOT OF BANDWIDTH FOR 5785MHz

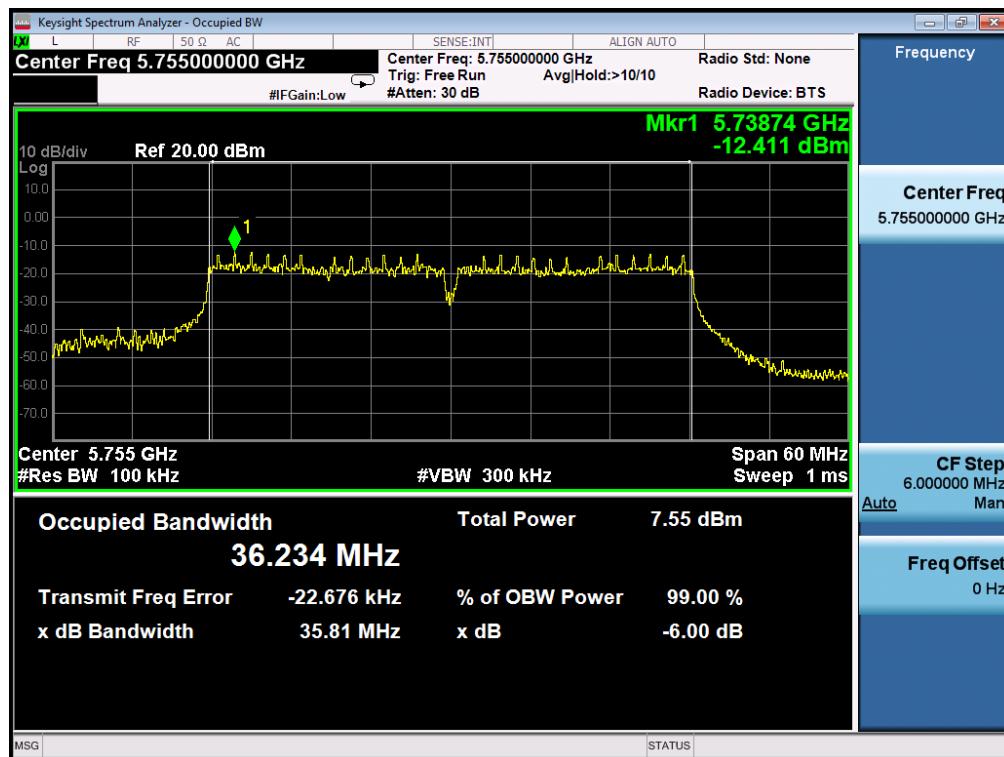


## TEST PLOT OF BANDWIDTH FOR 5825MHz



## 802.11ac40 TEST RESULT

## TEST PLOT OF BANDWIDTH FOR 5755MHz

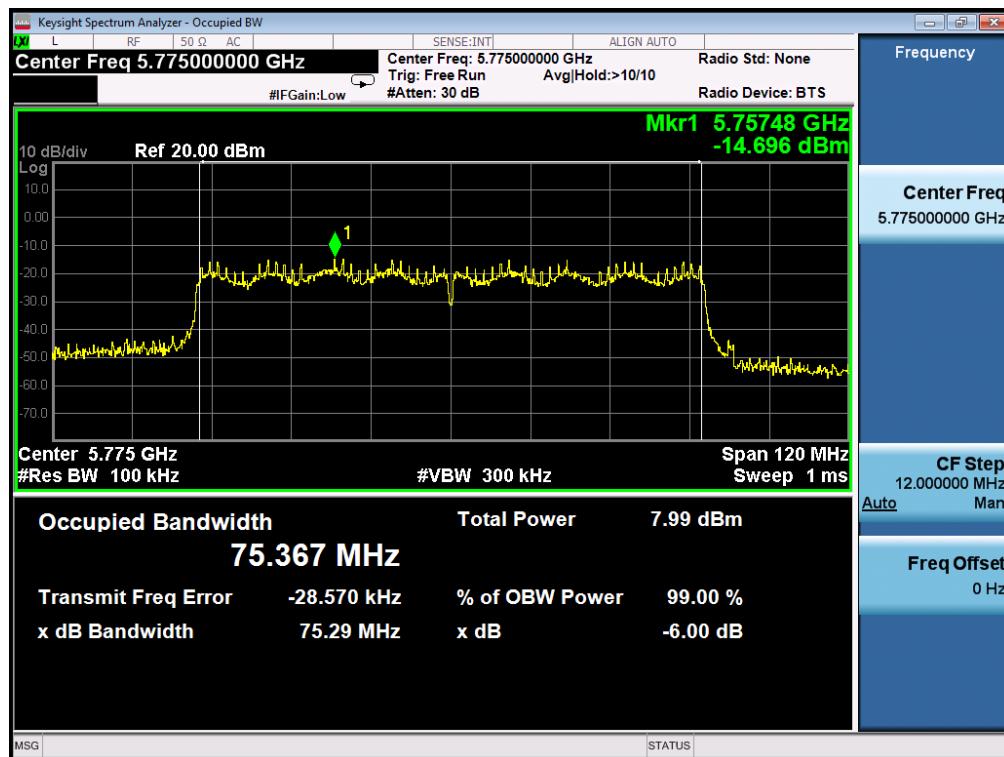


## TEST PLOT OF BANDWIDTH FOR 5795MHz



## 802.11ac80 TEST RESULT

## TEST PLOT OF BANDWIDTH FOR 5775MHz



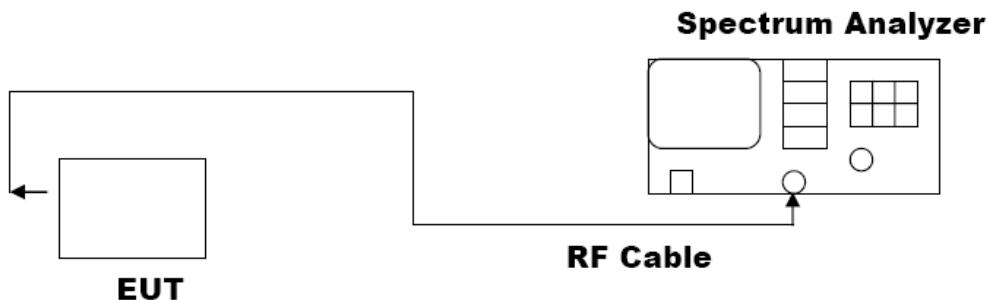
## 6. EMISSION BANDWIDTH

### 6.1. MEASUREMENT PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

**Note:** The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

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



### 6.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
Within the Band	5180MHz	20.28	PASS
	5200MHz	20.16	PASS
	5240MHz	19.95	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
Within the Band	5180MHz	21.03	PASS
	5200MHz	21.01	PASS
	5240MHz	21.01	PASS
	5190MHz	42.60	PASS
	5230MHz	42.89	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11AC80 MODULATION			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
Within the Band	5180MHz	21.07	PASS
	5200MHz	20.77	PASS
	5240MHz	20.75	PASS
	5190MHz	42.64	PASS
	5230MHz	43.43	PASS
	5210MHz	81.65	PASS

## 802.11a20 TEST RESULT

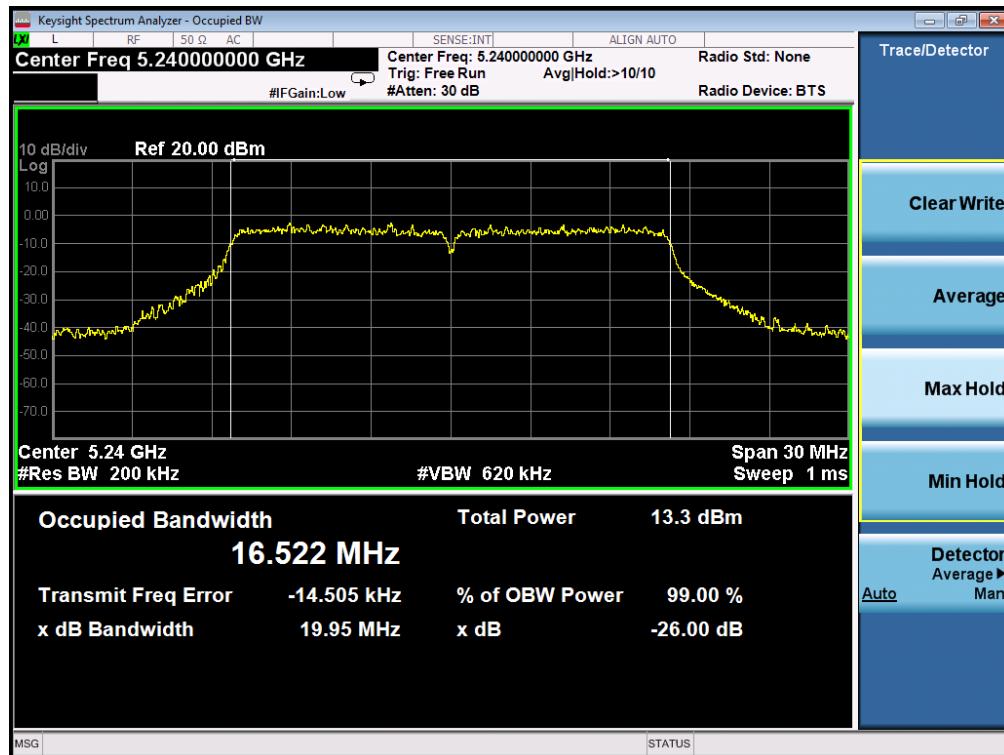
### TEST PLOT OF BANDWIDTH FOR 5180MHz



### TEST PLOT OF BANDWIDTH FOR 5200MHz

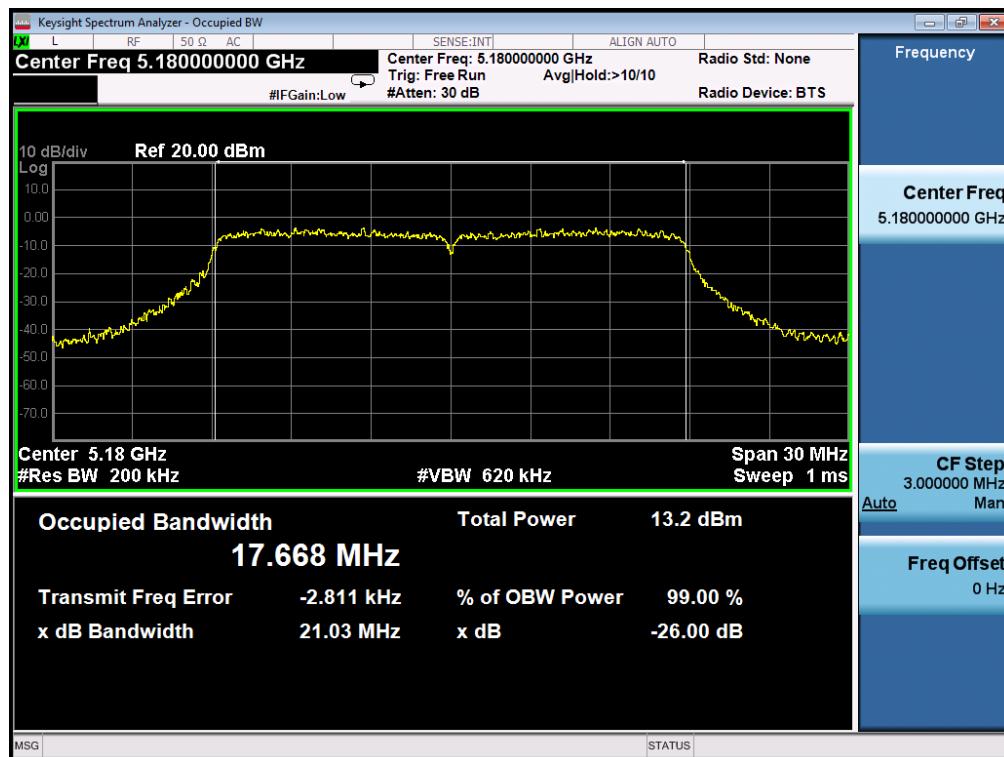


## TEST PLOT OF BANDWIDTH FOR 5240MHz

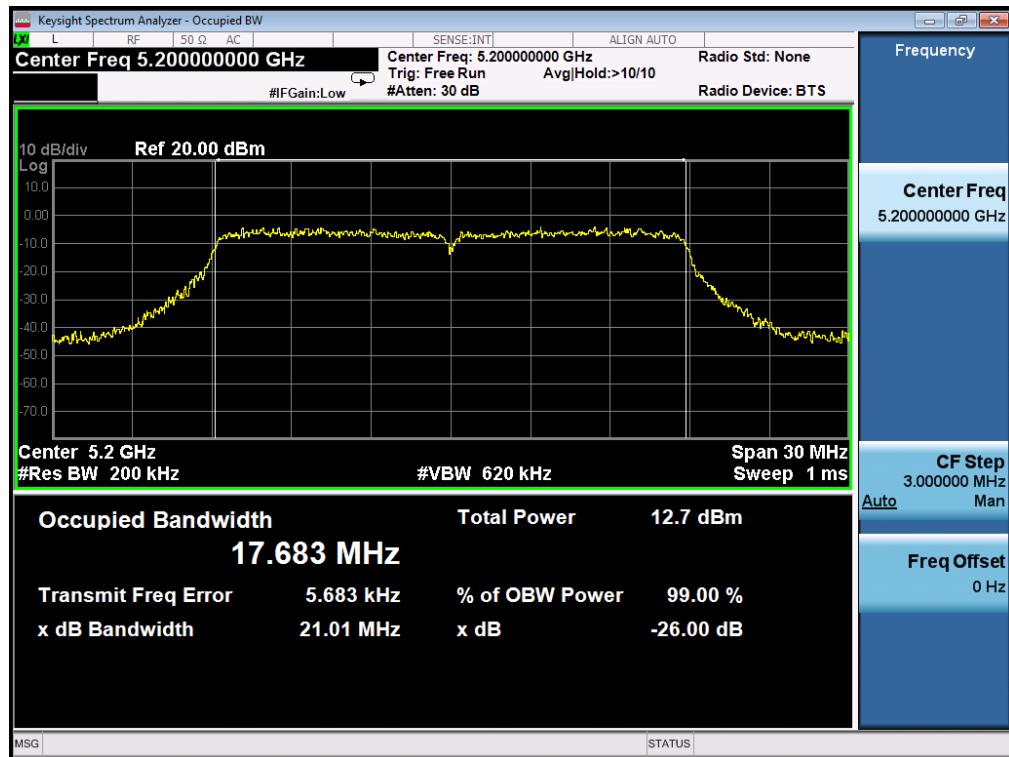


## 802.11n20 TEST RESULT

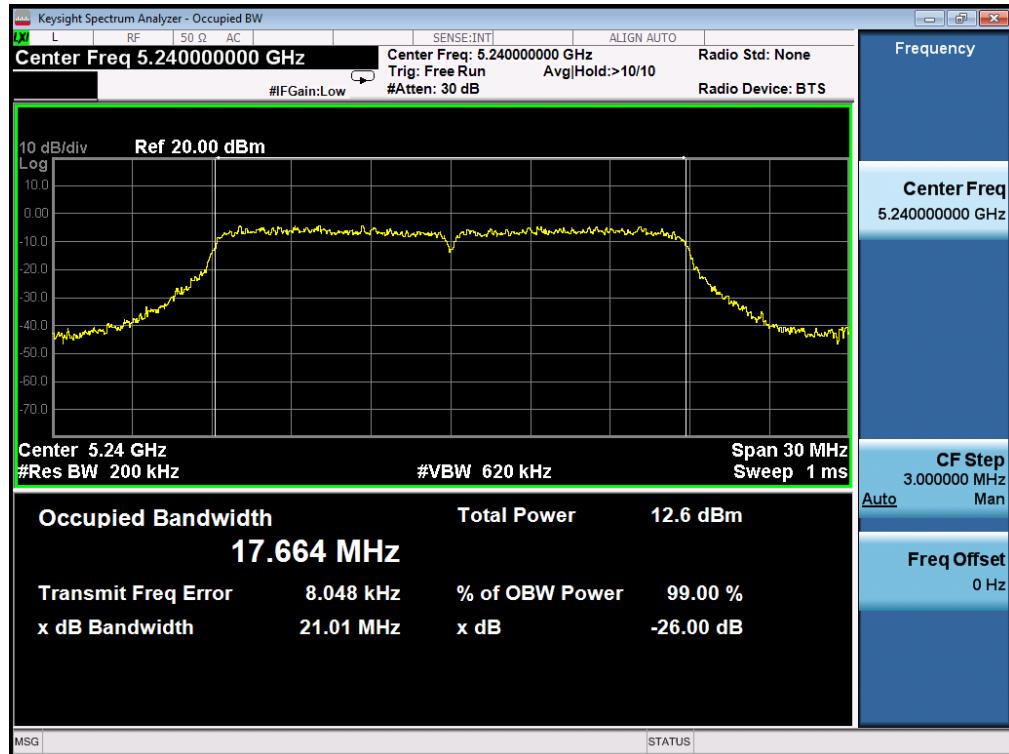
## TEST PLOT OF BANDWIDTH FOR 5180MHz



## TEST PLOT OF BANDWIDTH FOR 5200MHz

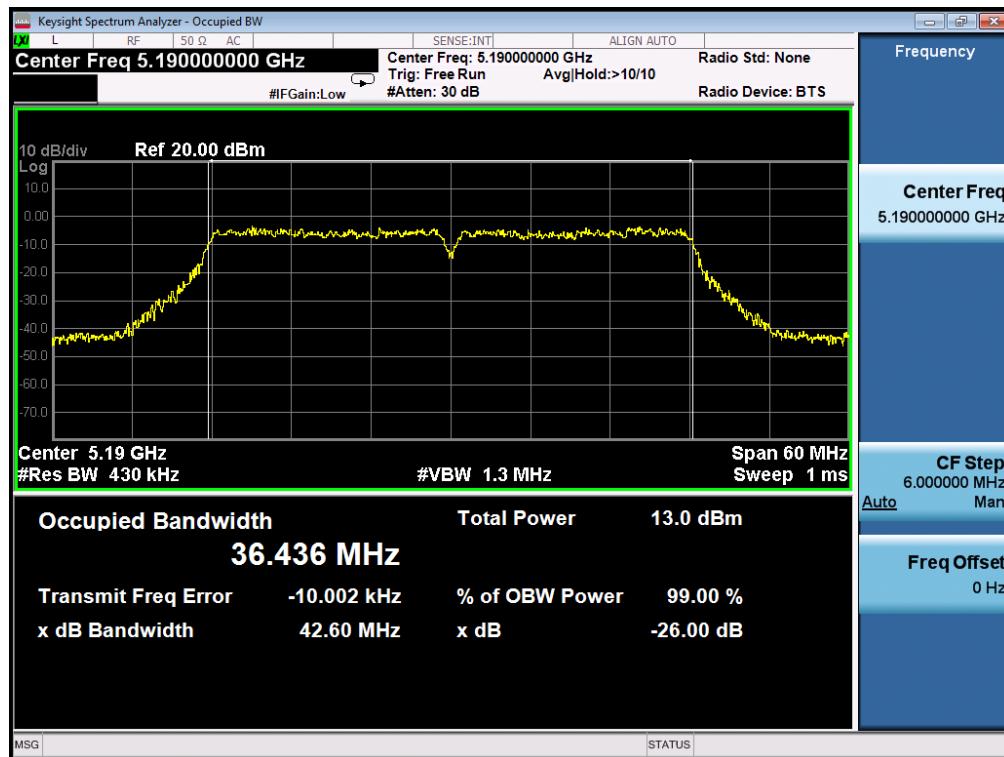


## TEST PLOT OF BANDWIDTH FOR 5240MHz

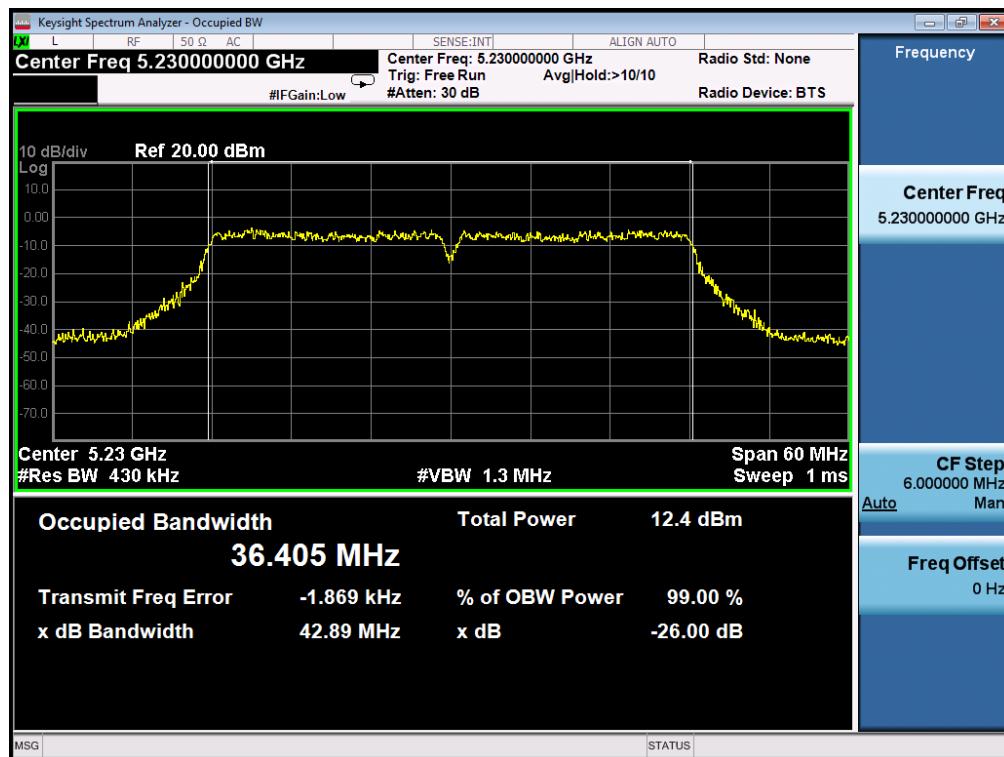


## 802.11n40 TEST RESULT

### TEST PLOT OF BANDWIDTH FOR 5190MHz

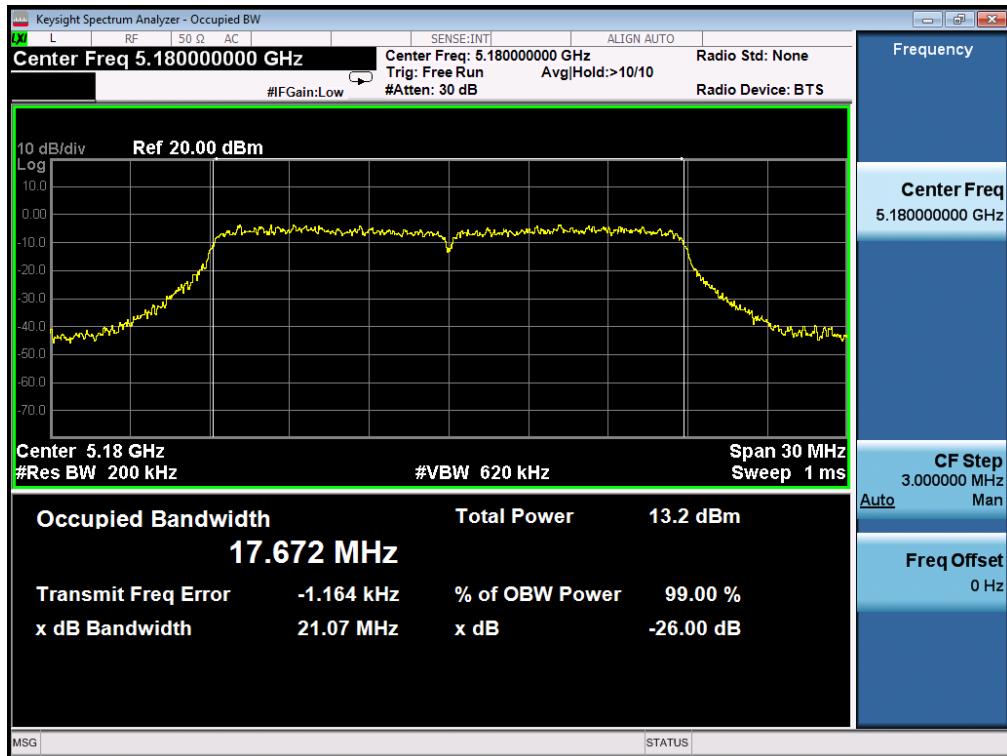


### TEST PLOT OF BANDWIDTH FOR 5230MHz

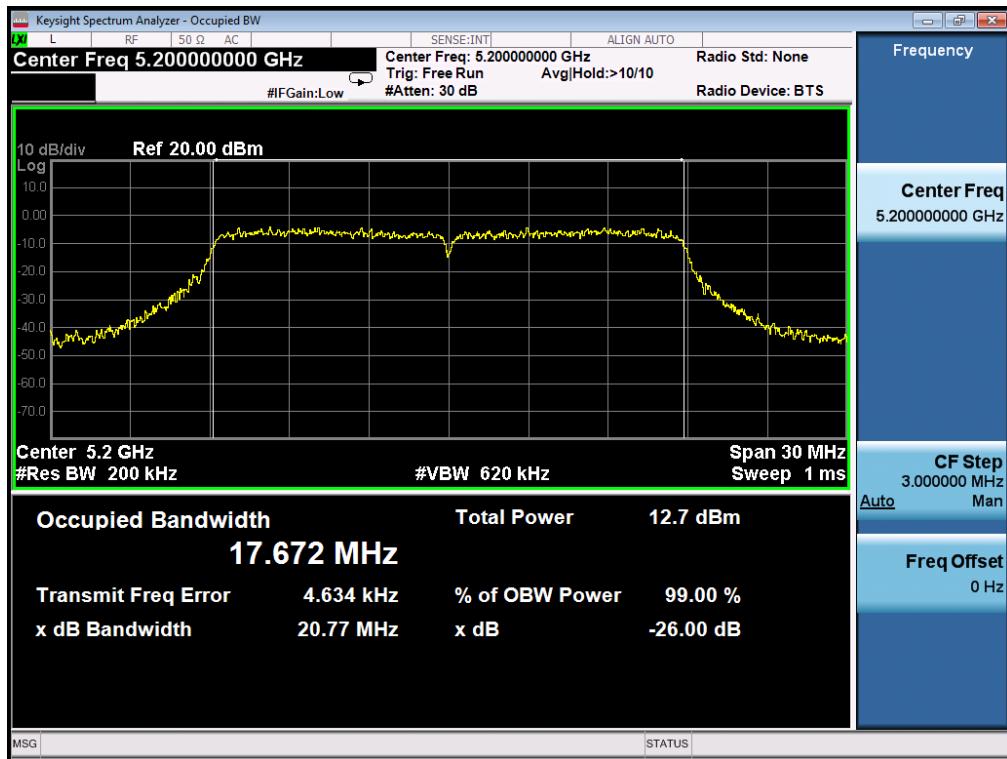


## 802.11ac20 TEST RESULT

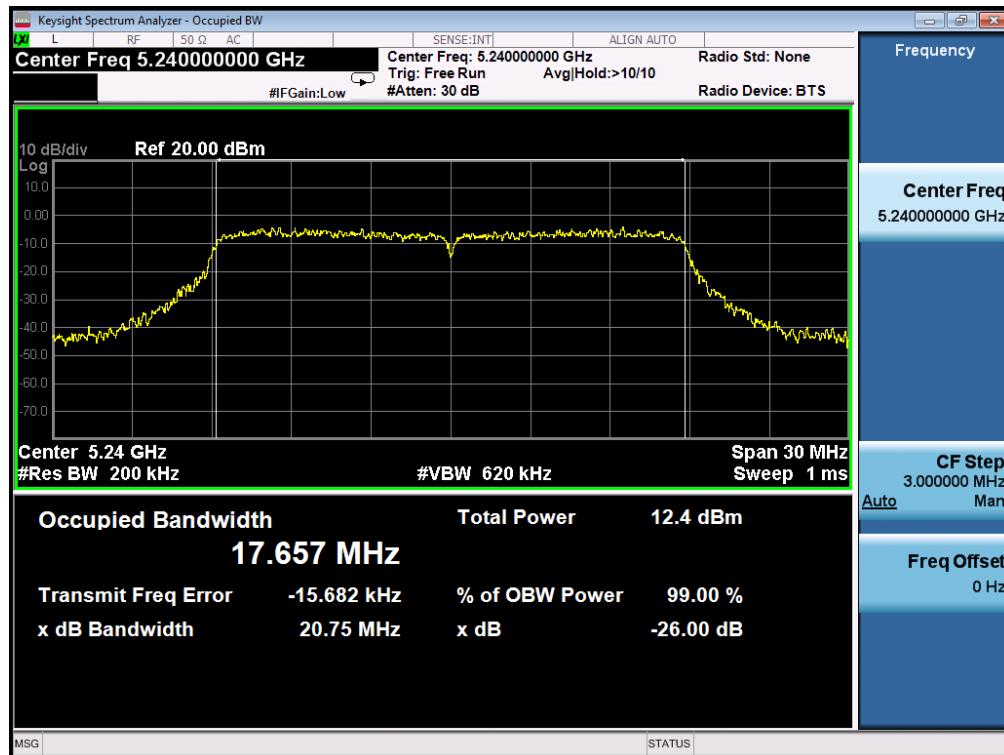
### TEST PLOT OF BANDWIDTH FOR 5180MHz



### TEST PLOT OF BANDWIDTH FOR 5200MHz



## TEST PLOT OF BANDWIDTH FOR 5240MHz

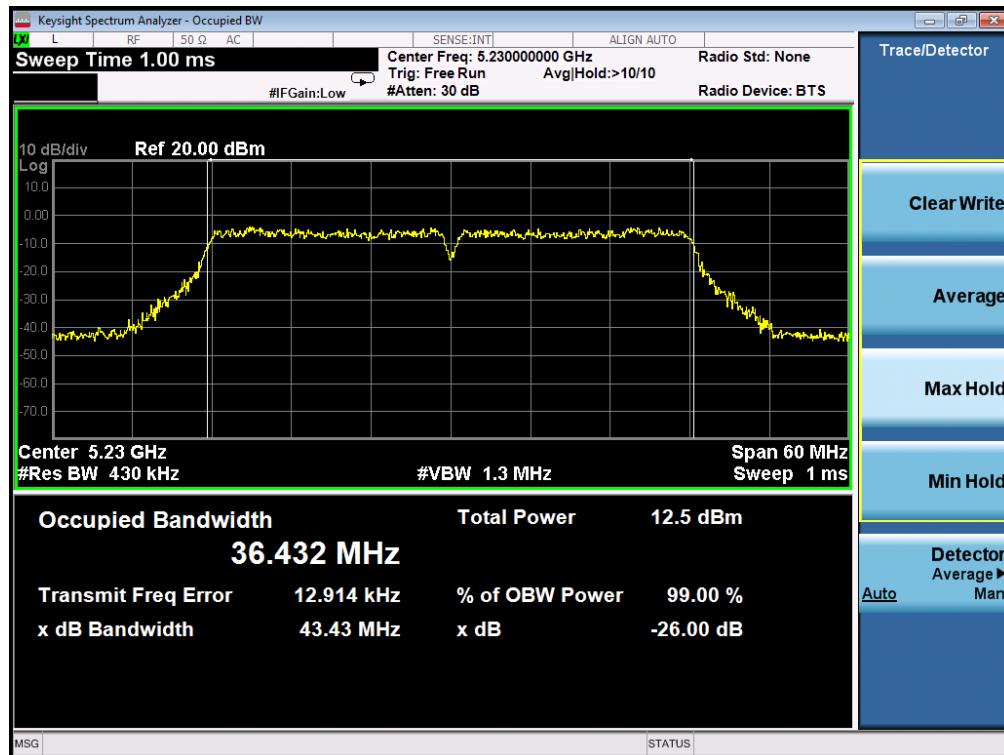


## 802.11ac40 TEST RESULT

## TEST PLOT OF BANDWIDTH FOR 5190MHz

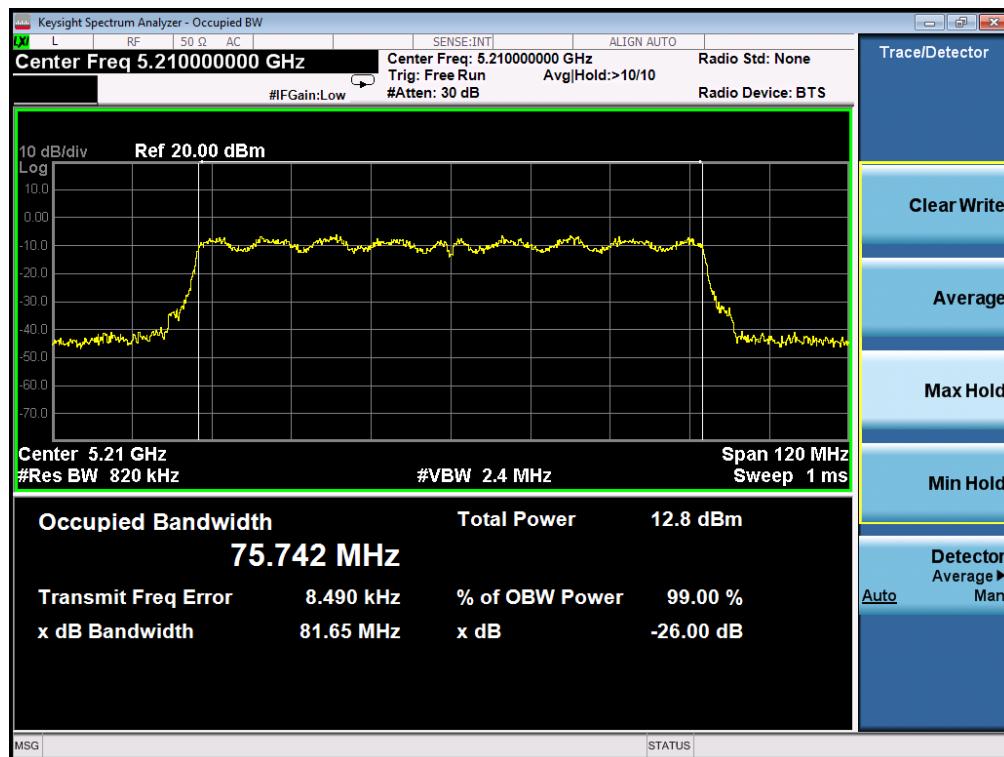


## TEST PLOT OF BANDWIDTH FOR 5230MHz



## 802.11ac80 TEST RESULT

## TEST PLOT OF BANDWIDTH FOR 5210MHz



## 7. MAXIMUM CONDUCTED OUTPUT PEAK POWER SPECTRAL DENSITY

### 7.1 MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

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

Refer To Section 8.2.

### 7.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

### 7.4 LIMITS AND MEASUREMENT RESULT

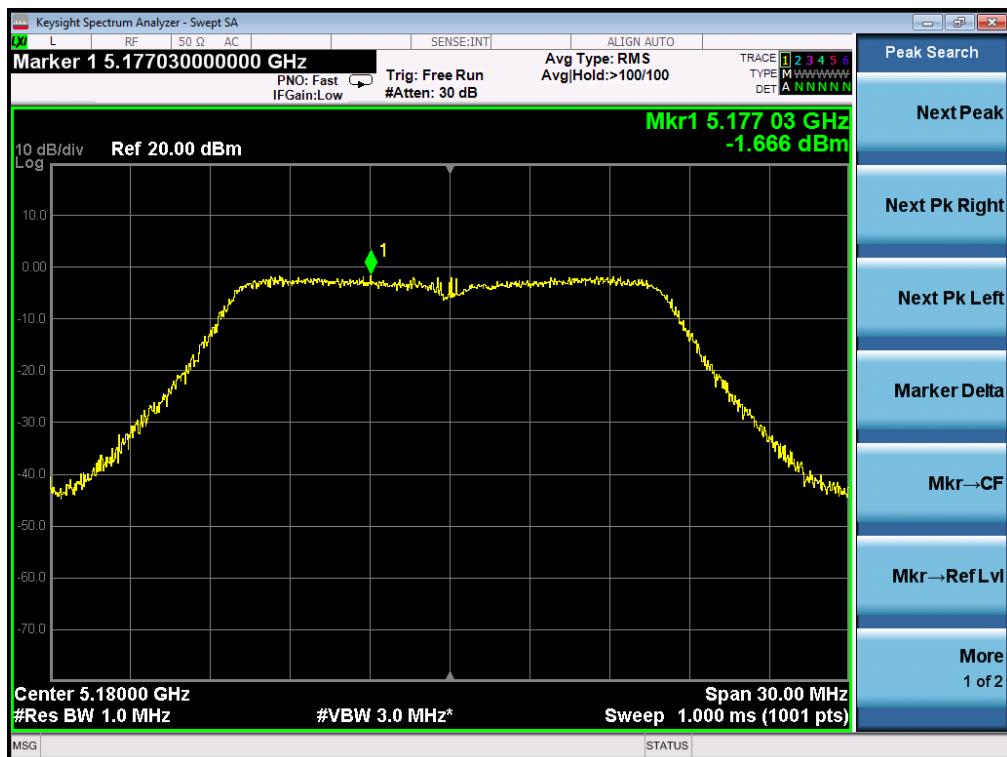
LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION			
Frequency (MHz)	Power density (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5180	-1.666	11	Pass
5200	-1.652	11	Pass
5240	-1.972	11	Pass
Frequency (MHz)	Power density (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	-3.396	30	Pass
5785	-3.556	30	Pass
5825	-3.557	30	Pass

<b>LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION</b>					
<b>Frequency (MHz)</b>	<b>Power density Chain 0 (dBm/MHz)</b>	<b>Power density Chain 1 (dBm/MHz)</b>	<b>Power density Total (dBm/MHz)</b>	<b>Applicable Limits (dBm)</b>	<b>Pass or Fail</b>
5180	-4.778	-4.890	-1.962	11	Pass
5200	-4.419	-4.562	-2.054	11	Pass
5240	-4.235	-4.757	-2.193	11	Pass
5190	-6.442	-7.516	-4.528	11	Pass
5230	-6.126	-6.669	-4.609	11	Pass
<b>Frequency (MHz)</b>	<b>Power density Chain 0 (dBm/500kHz)</b>	<b>Power density Chain 1 (dBm/500kHz)</b>	<b>Power density Total (dBm/500kHz)</b>	<b>Applicable Limits (dBm)</b>	<b>Pass or Fail</b>
5745	-5.939	-7.211	-4.052	30	Pass
5785	-5.975	-6.763	-3.316	30	Pass
5825	-6.208	-7.122	-4.291	30	Pass
5755	-9.048	-9.813	-7.312	30	Pass
5795	-9.374	-9.567	-7.165	30	Pass

<b>LIMITS AND MEASUREMENT RESULT FOR 802.11AC20/40/80 MODULATION</b>					
<b>Frequency (MHz)</b>	<b>Power density Chain 0 (dBm/MHz)</b>	<b>Power density Chain 1 (dBm/MHz)</b>	<b>Power density Total (dBm/MHz)</b>	<b>Applicable Limits (dBm)</b>	<b>Pass or Fail</b>
5180	-4.899	-4.948	-2.234	11	Pass
5200	-4.520	-5.432	-2.702	11	Pass
5240	-4.423	-5.067	-2.918	11	Pass
5190	-7.294	-7.336	-5.009	11	Pass
5230	-6.833	-6.956	-4.712	11	Pass
5210	-10.987	-11.219	-9.106	11	Pass
<b>Frequency (MHz)</b>	<b>Power density Chain 0 (dBm/500kHz)</b>	<b>Power density Chain 1 (dBm/500kHz)</b>	<b>Power density Total (dBm/500kHz)</b>	<b>Applicable Limits (dBm)</b>	<b>Pass or Fail</b>
5745	-7.150	-7.691	-5.213	30	Pass
5785	-7.708	-8.046	-5.061	30	Pass
5825	-8.064	-8.078	-6.193	30	Pass
5755	-9.570	-9.877	-7.099	30	Pass
5795	-10.389	-9.949	-7.912	30	Pass
5775	-12.506	-13.273	-10.365	30	Pass

## 802.11a20 TEST RESULT

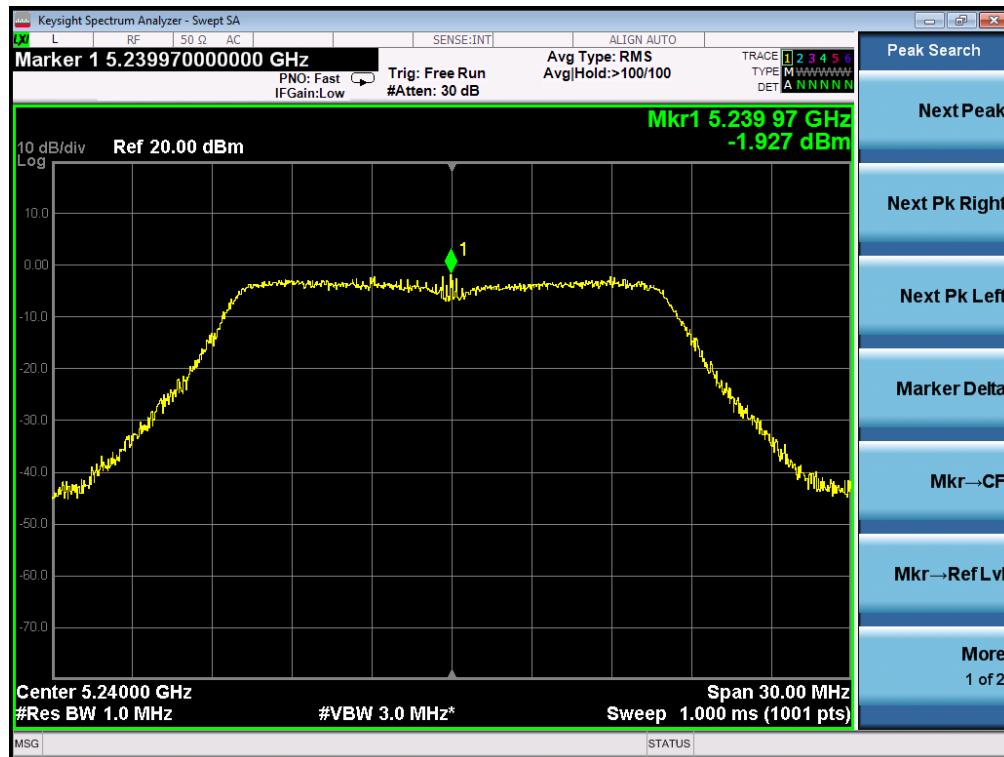
### TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz



### TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz



## TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz



## TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



## TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz



## TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz

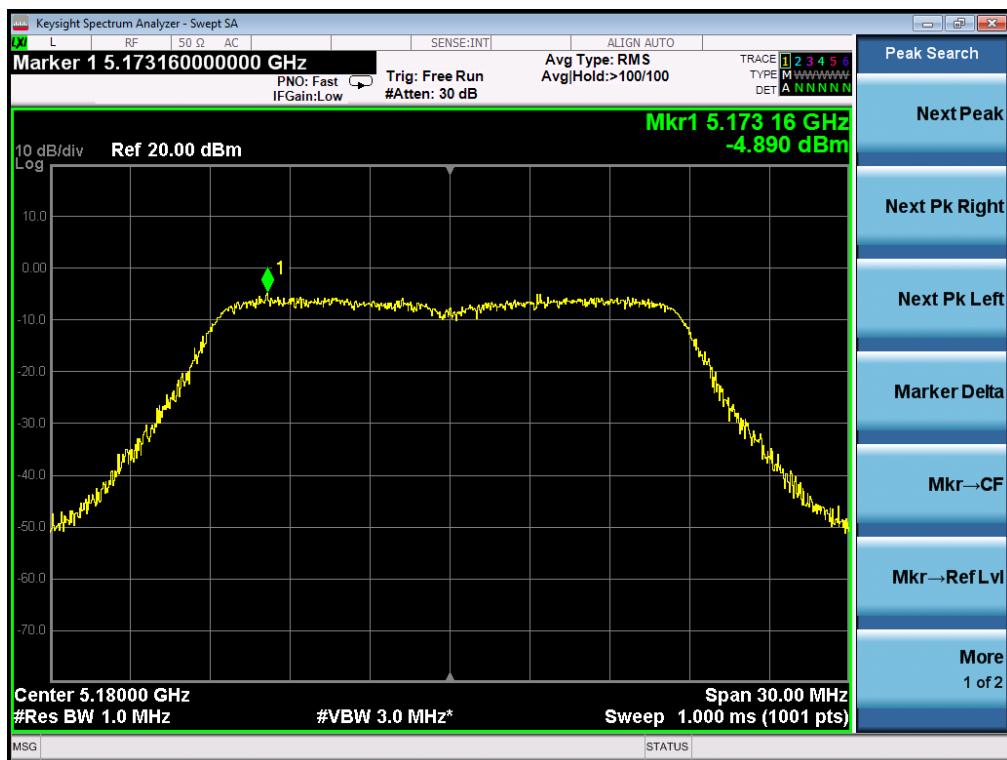


## 802.11n20 TEST RESULT

### TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz AT CHAIN 0



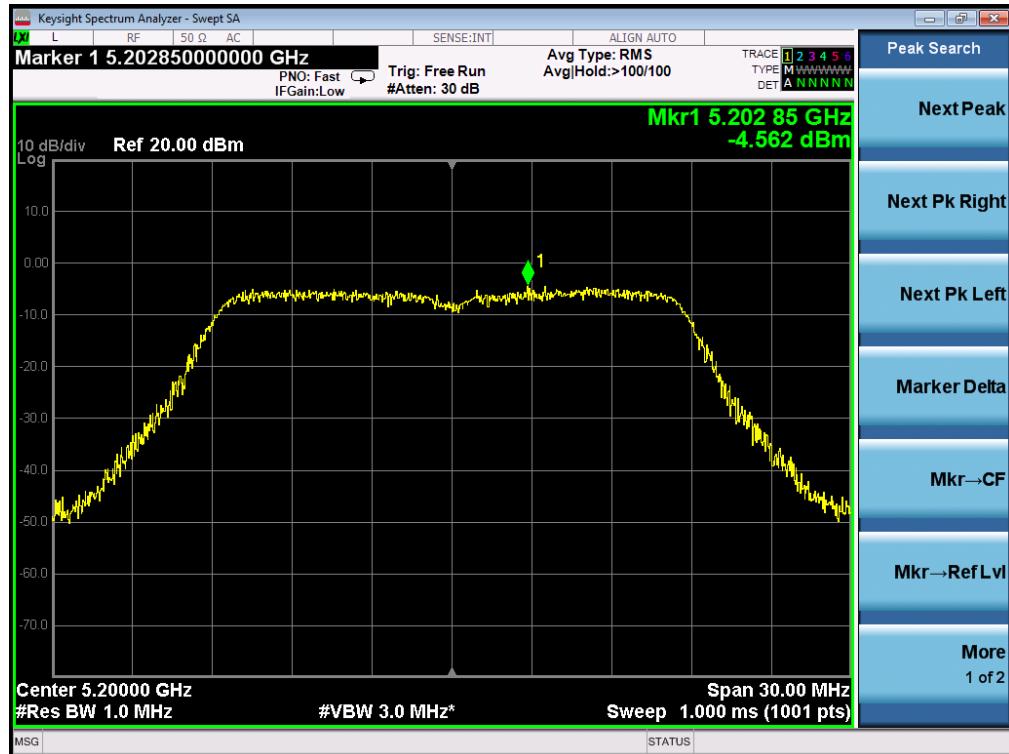
### TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz AT CHAIN 1



## TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz AT CHAIN 0



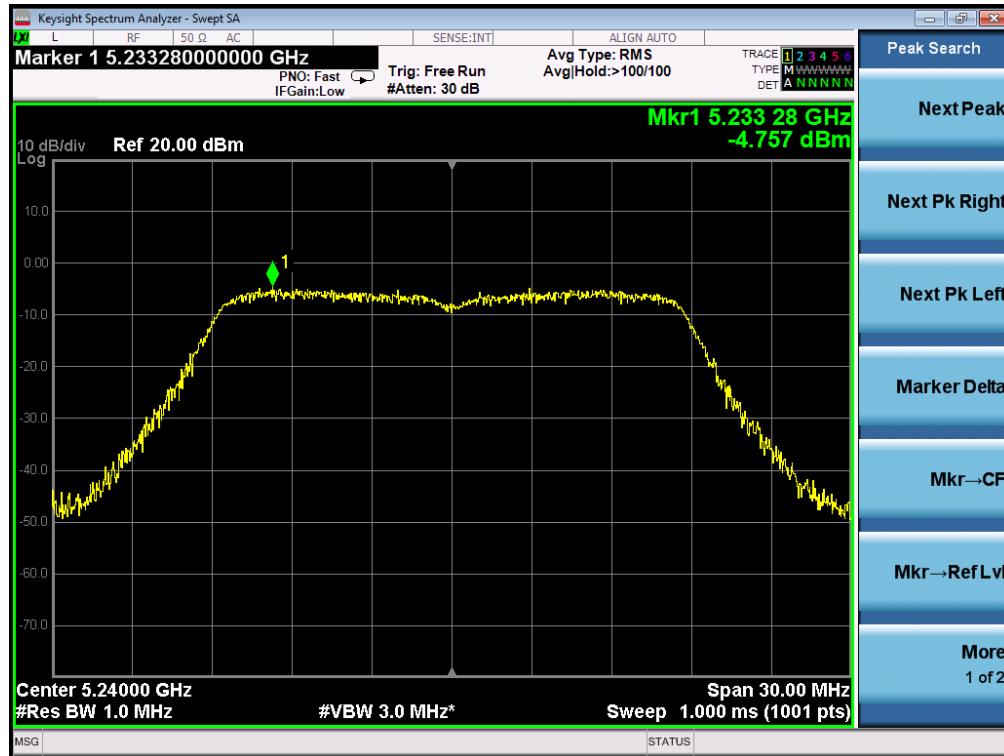
## TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz AT CHAIN 1



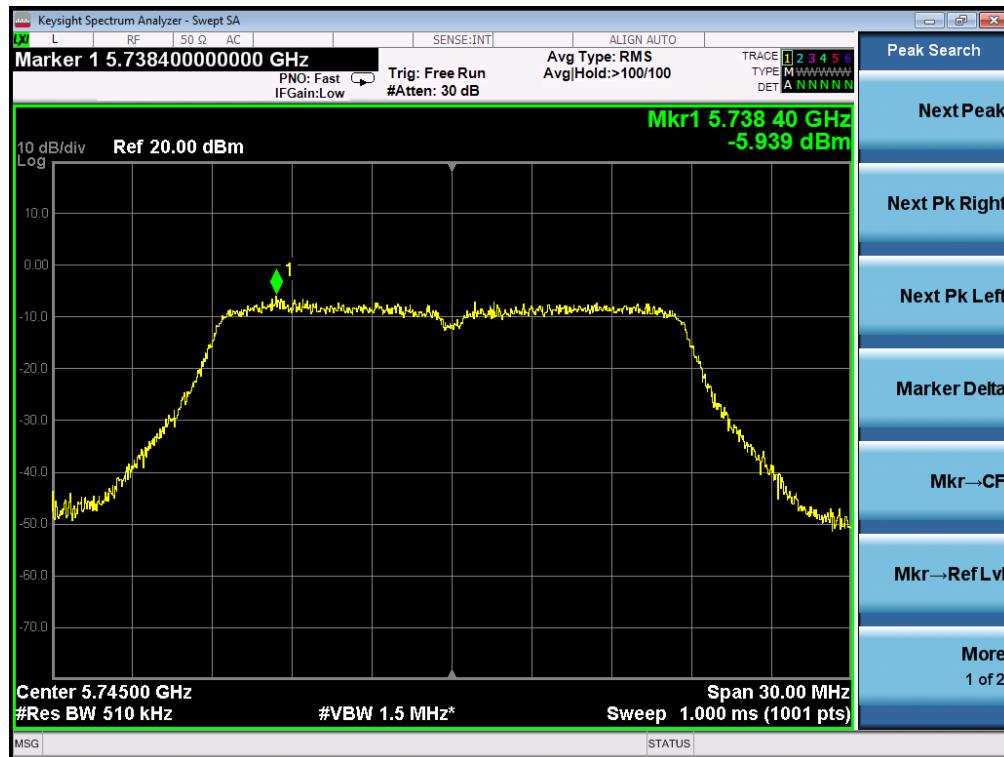
## TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz AT CHAIN 0



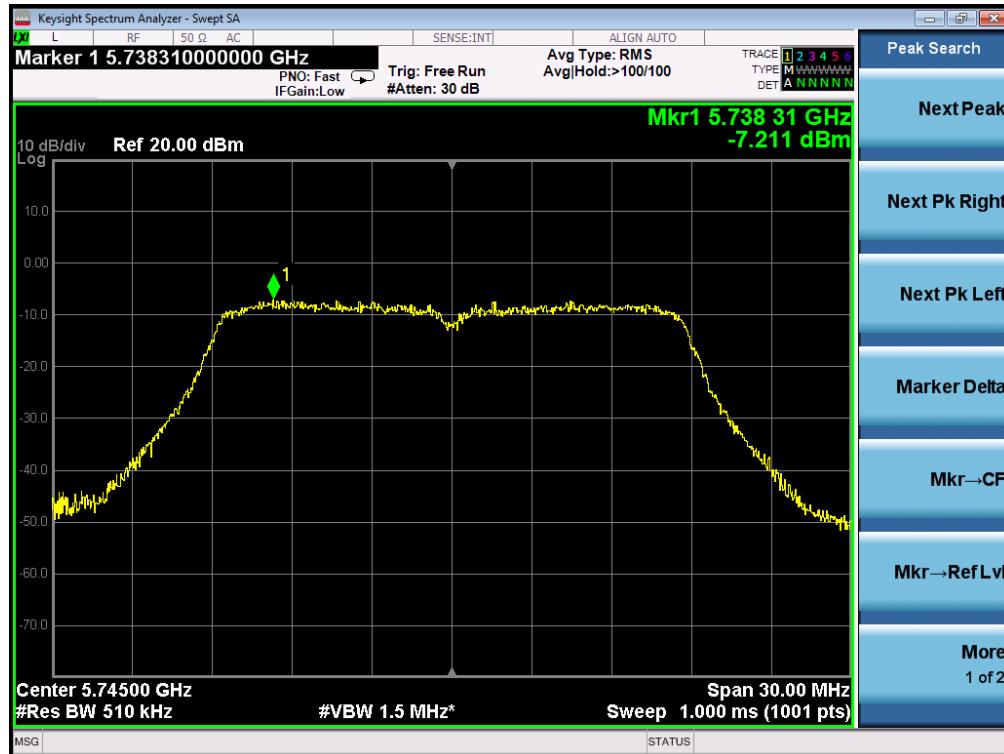
## TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz AT CHAIN 1



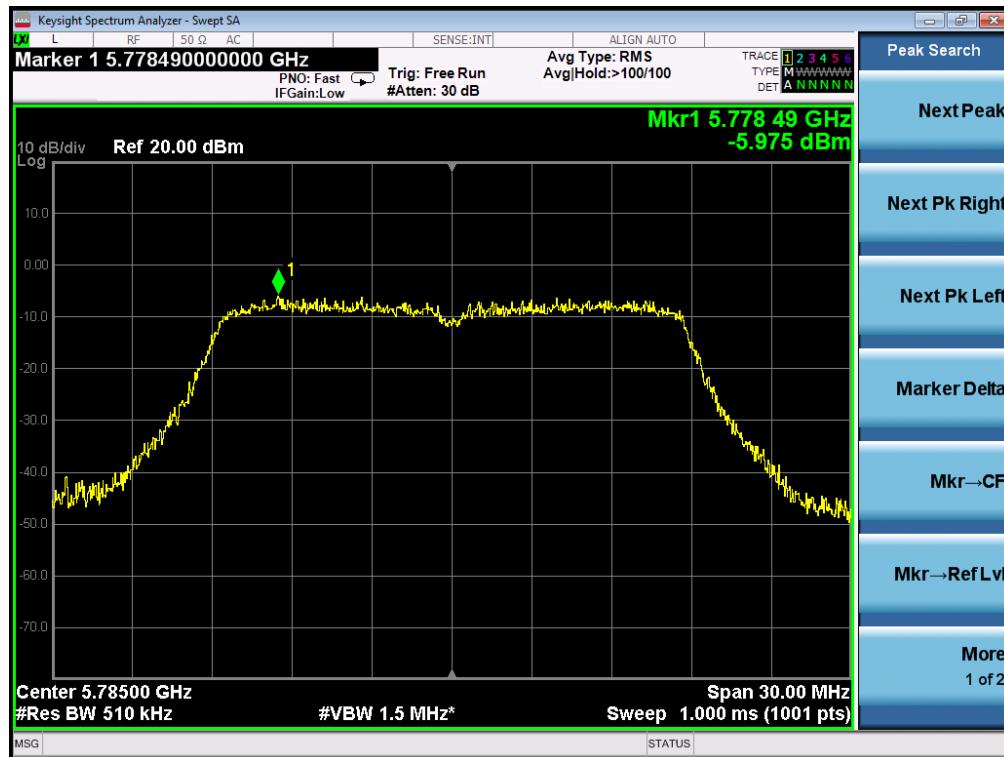
## TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz AT CHAIN 0



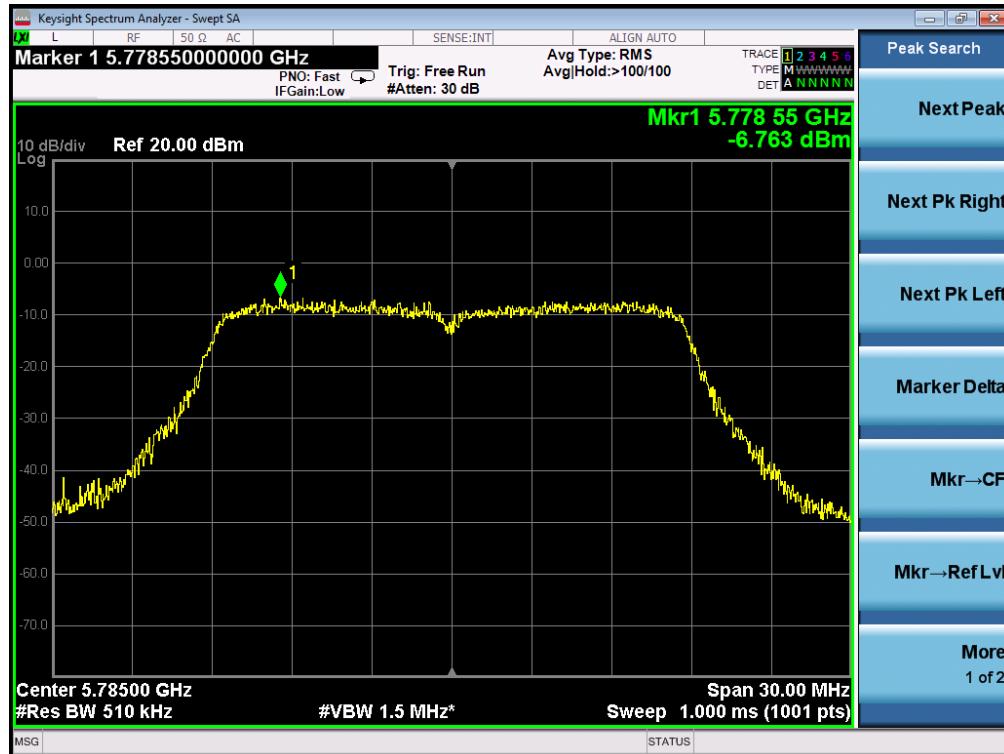
## TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz AT CHAIN 1



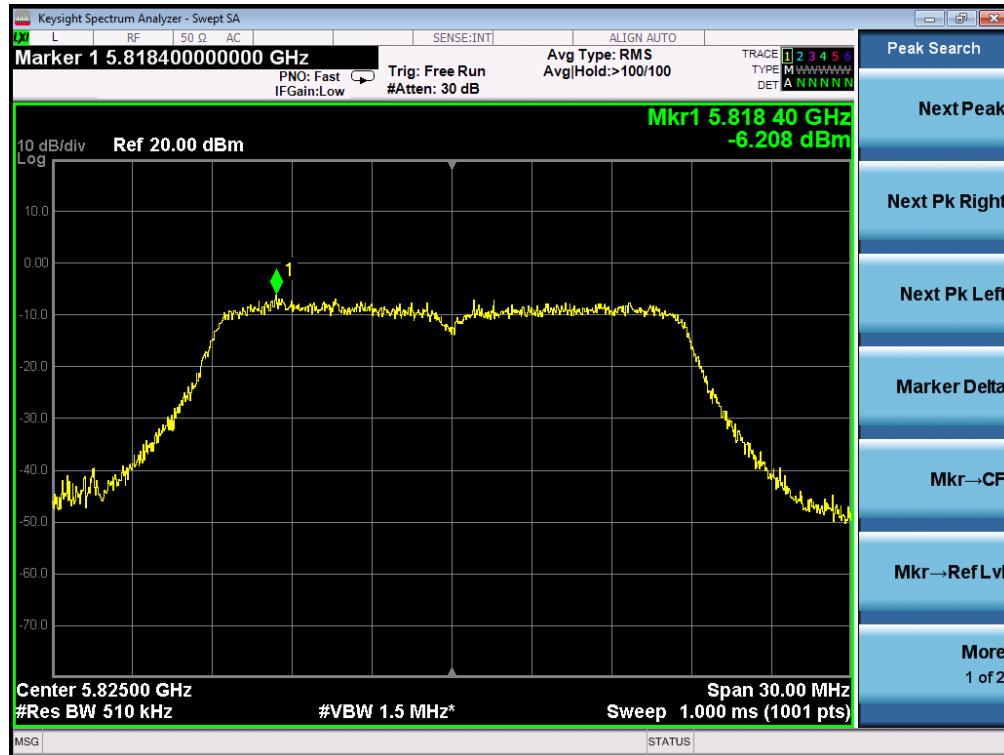
## TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz AT CHAIN 0



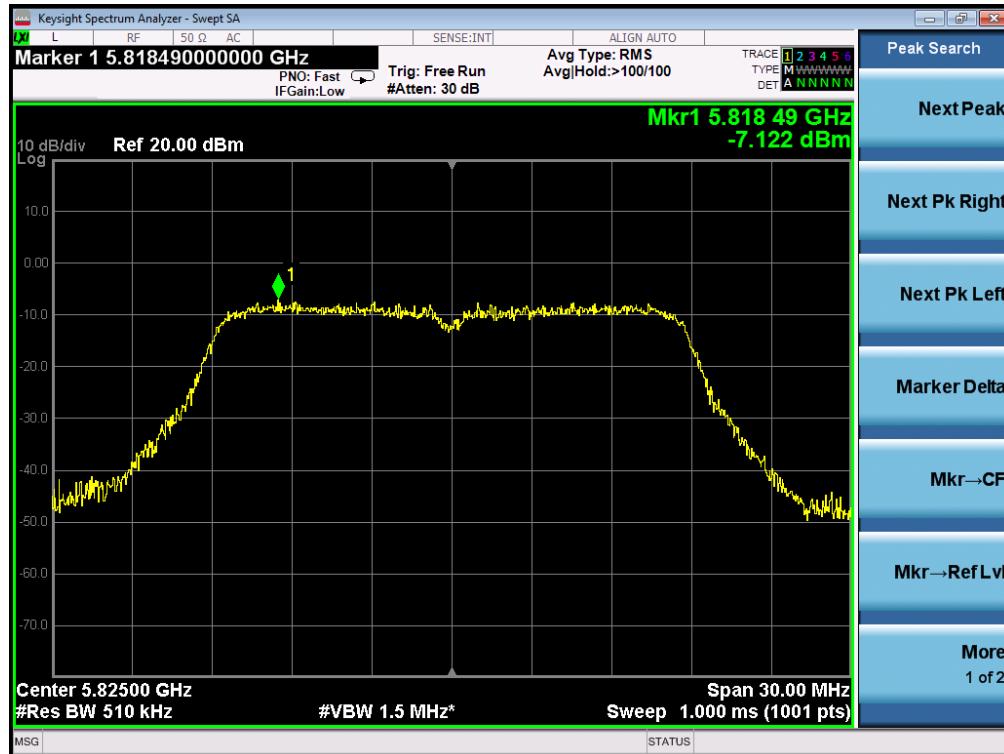
## TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz AT CHAIN 1



## TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz AT CHAIN 0

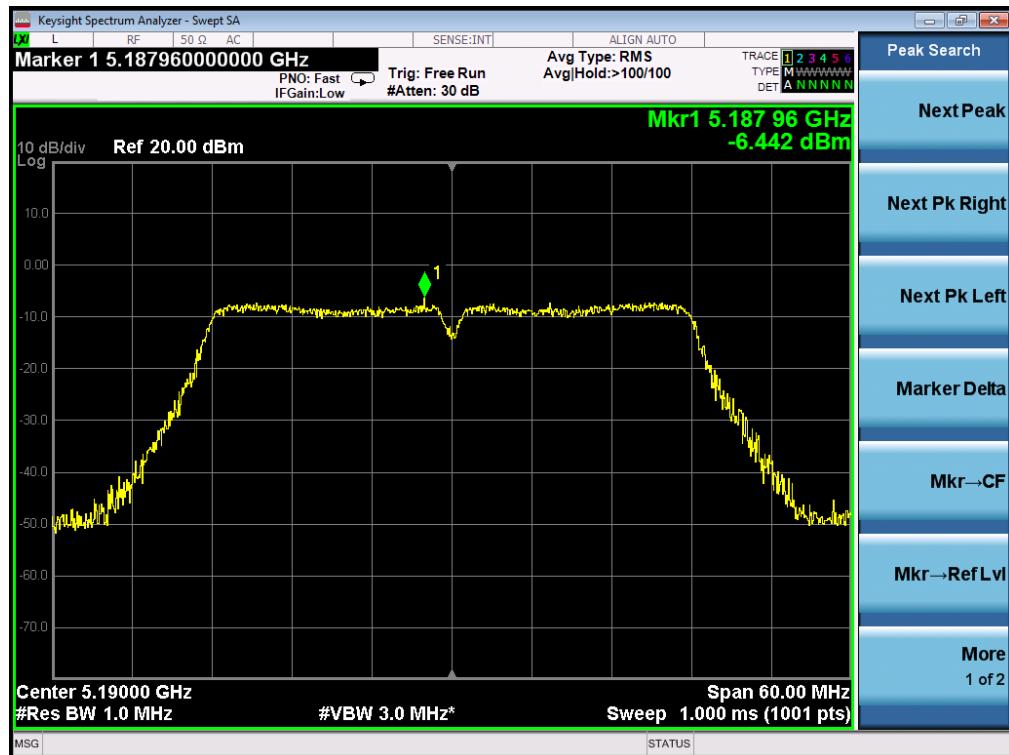


## TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz AT CHAIN 1



## 802.11n40 TEST RESULT

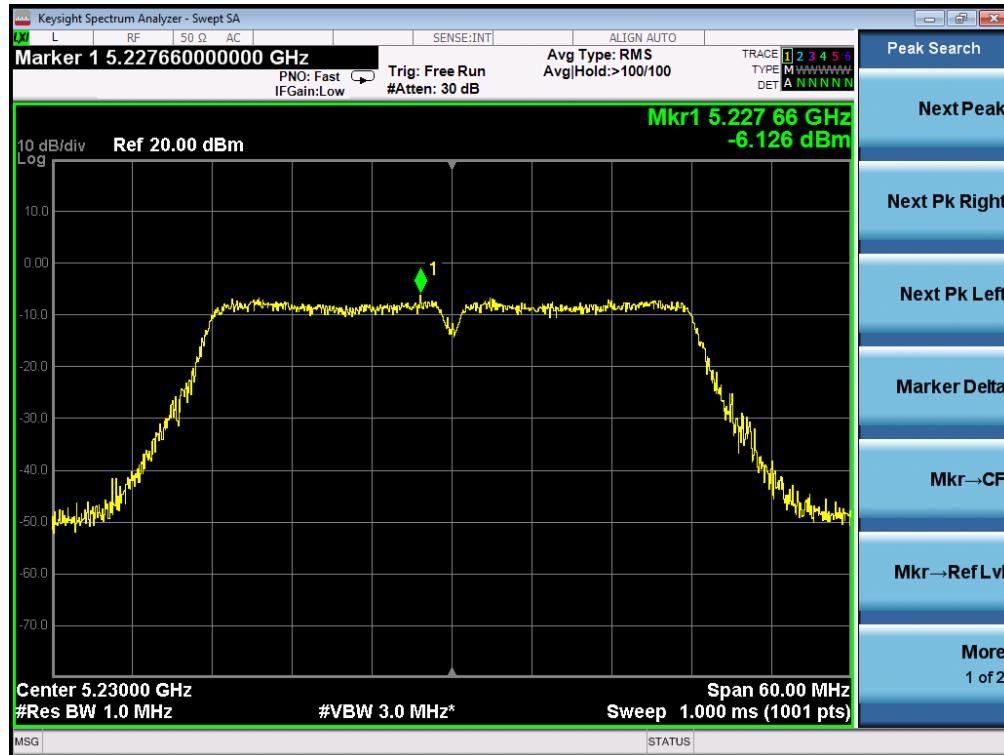
### TEST PLOT OF SPECTRAL DENSITY FOR 5190MHz AT CHAIN 0



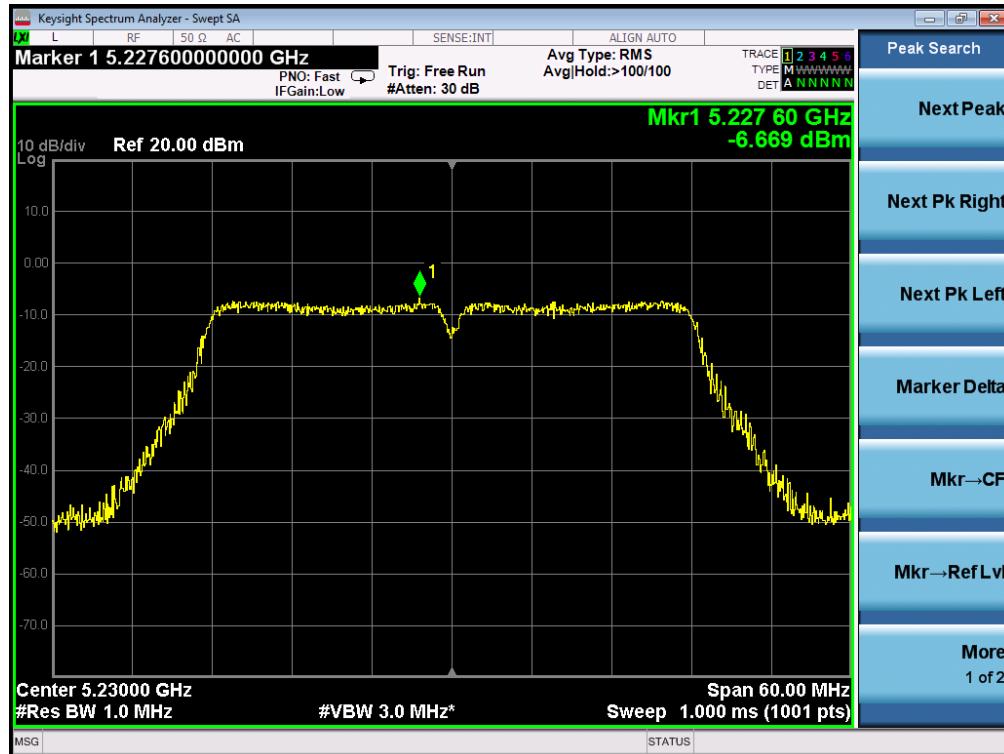
### TEST PLOT OF SPECTRAL DENSITY FOR 5190MHz AT CHAIN 1



## TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz AT CHAIN 0



## TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz AT CHAIN 1



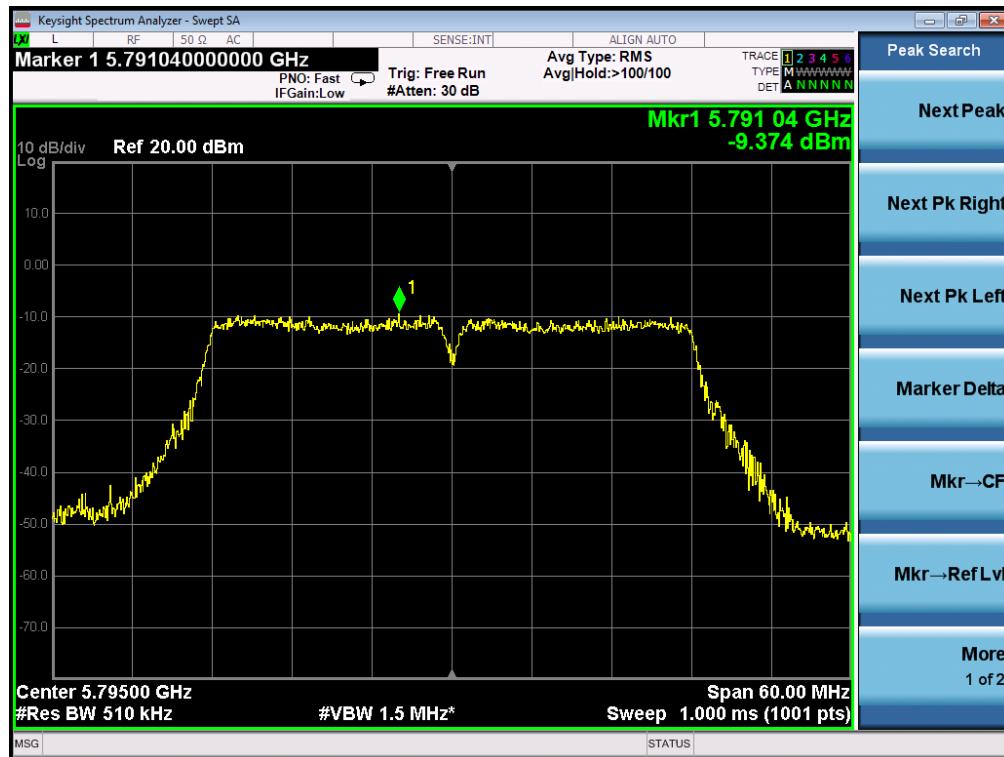
## TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz AT CHAIN 0



## TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz AT CHAIN 1



## TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz AT CHAIN 0

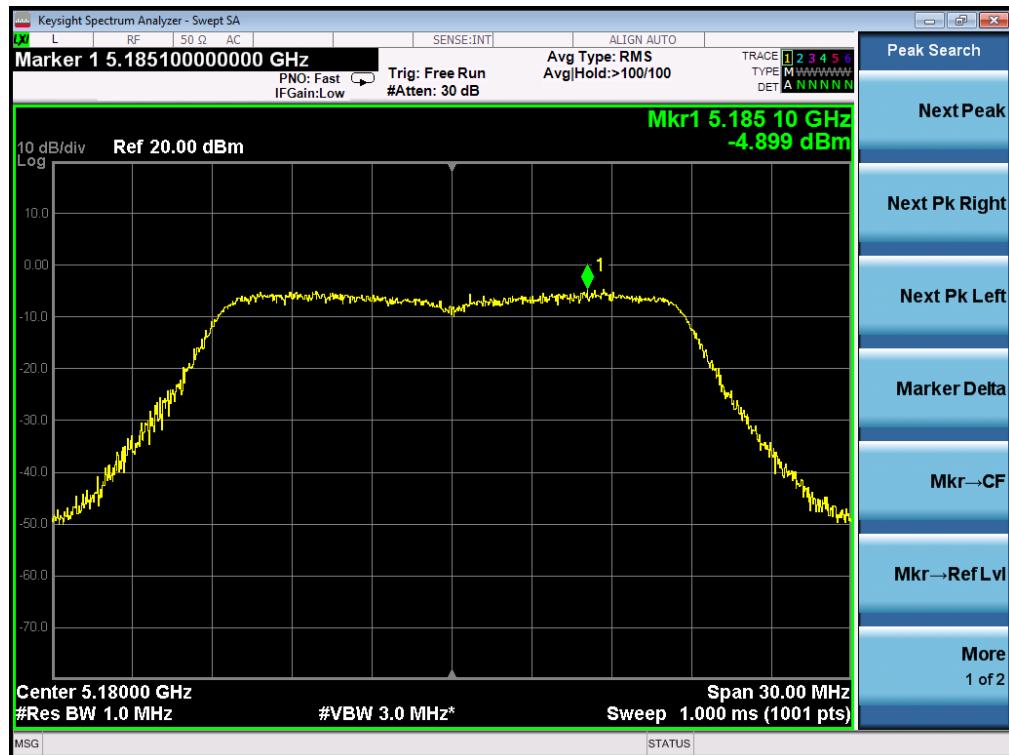


## TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz AT CHAIN 1

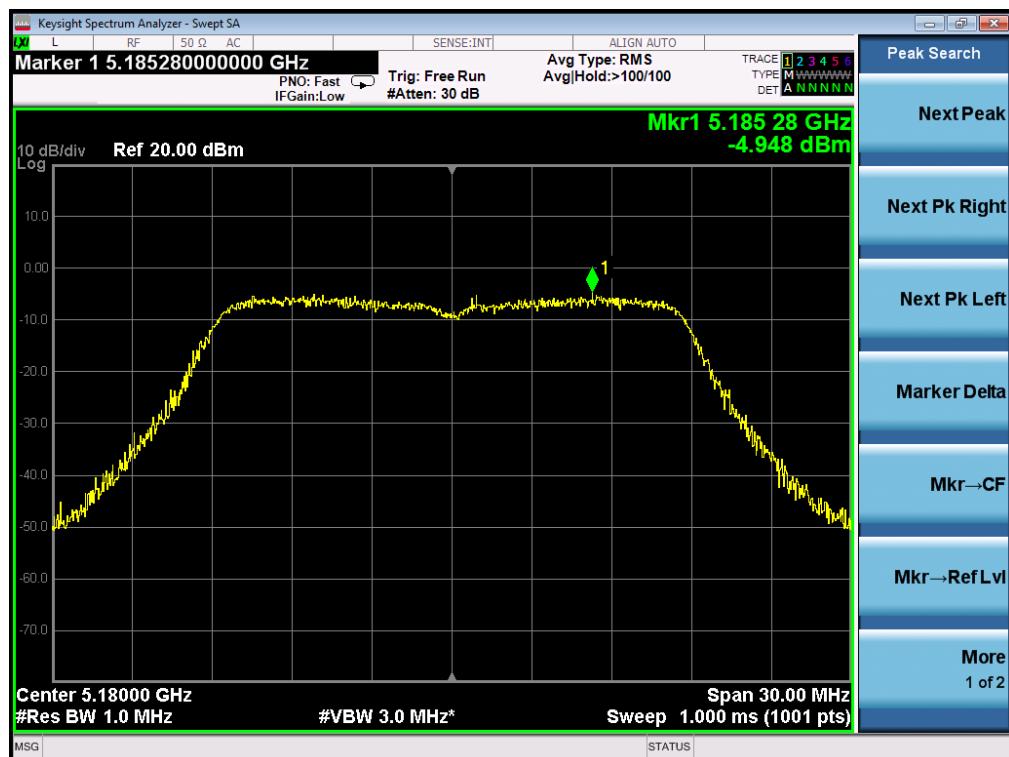


## 802.11ac20 TEST RESULT

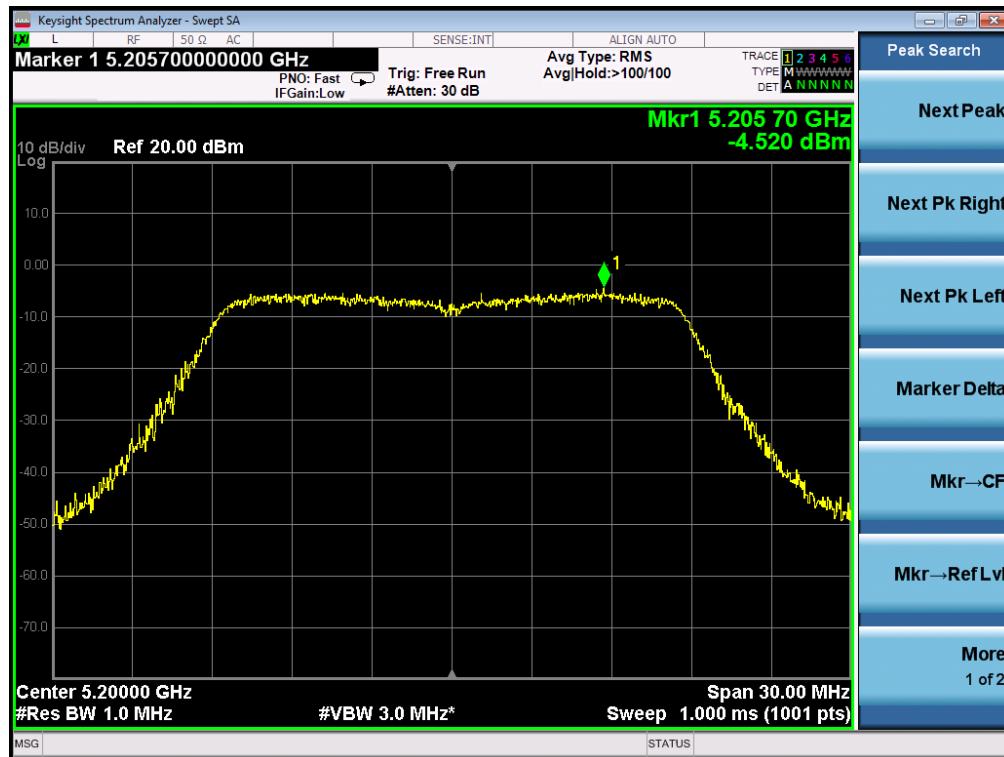
### TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz AT CHAIN 0



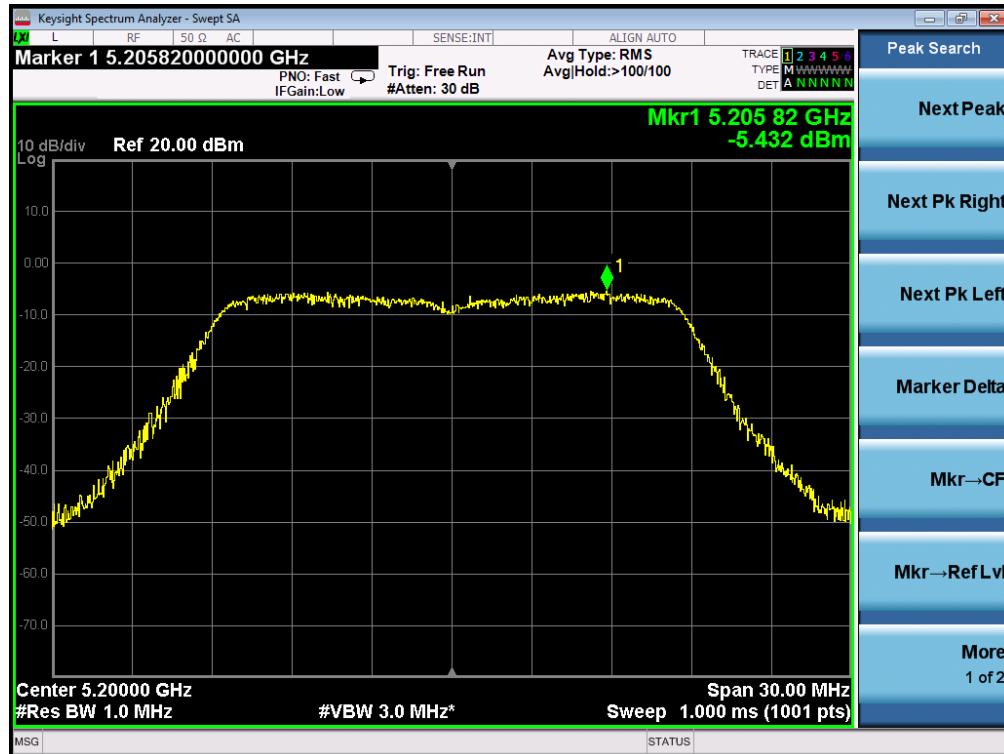
### TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz AT CHAIN 1



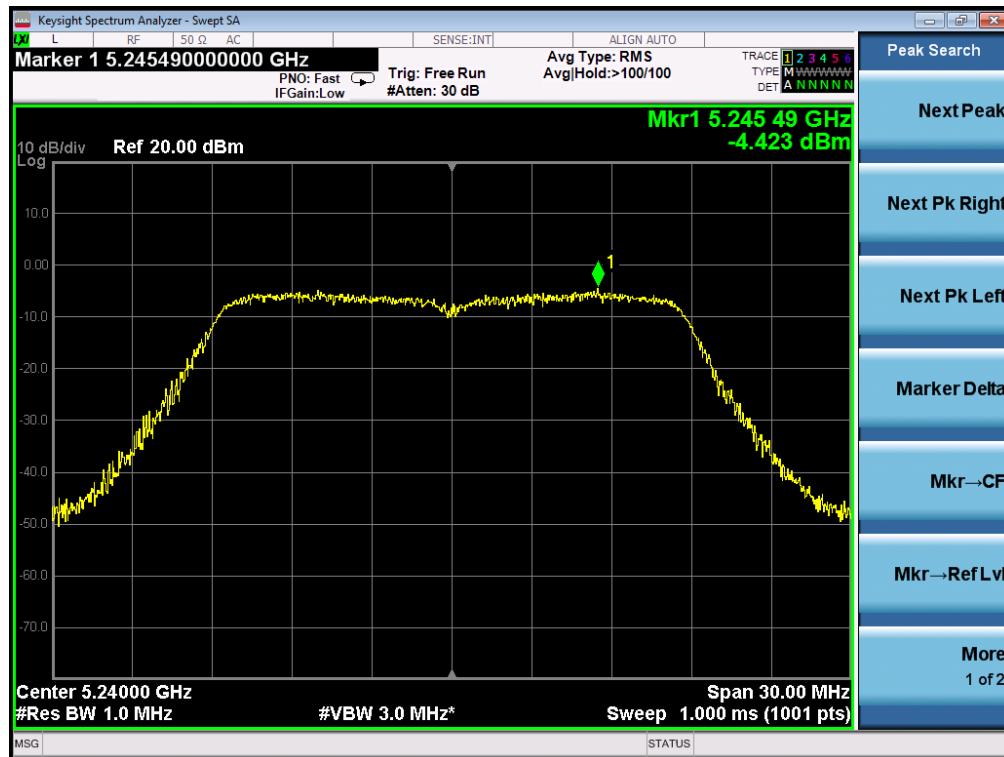
## TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz AT CHAIN 0



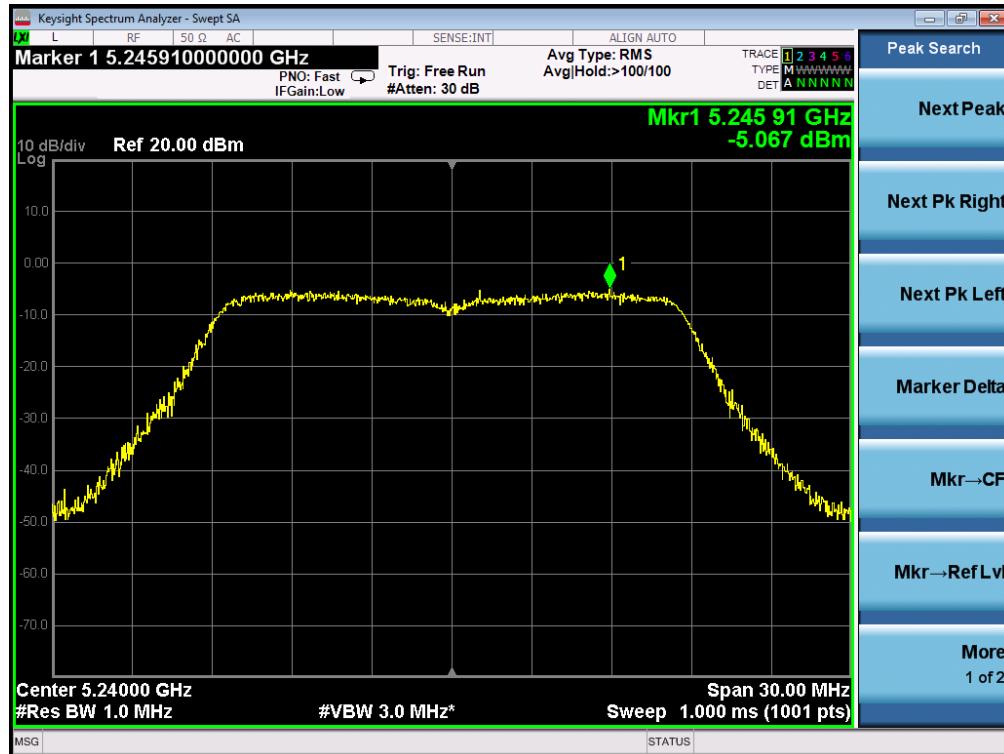
## TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz AT CHAIN 1



## TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz AT CHAIN 0



## TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz AT CHAIN 1



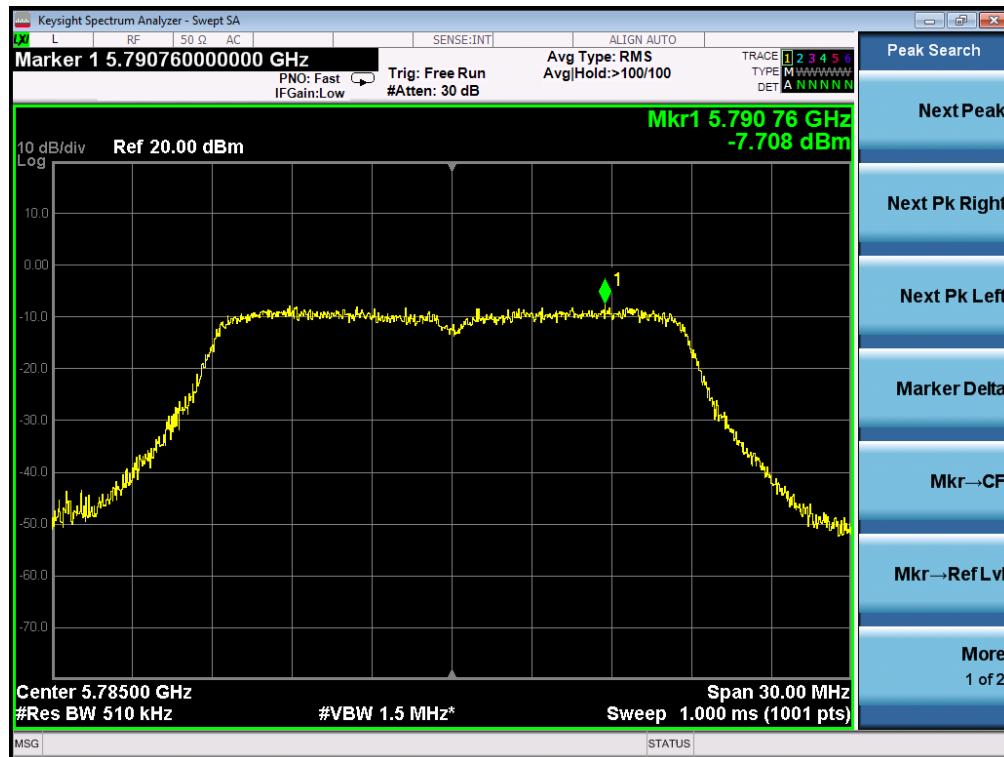
## TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz AT CHAIN 0



## TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz AT CHAIN 1



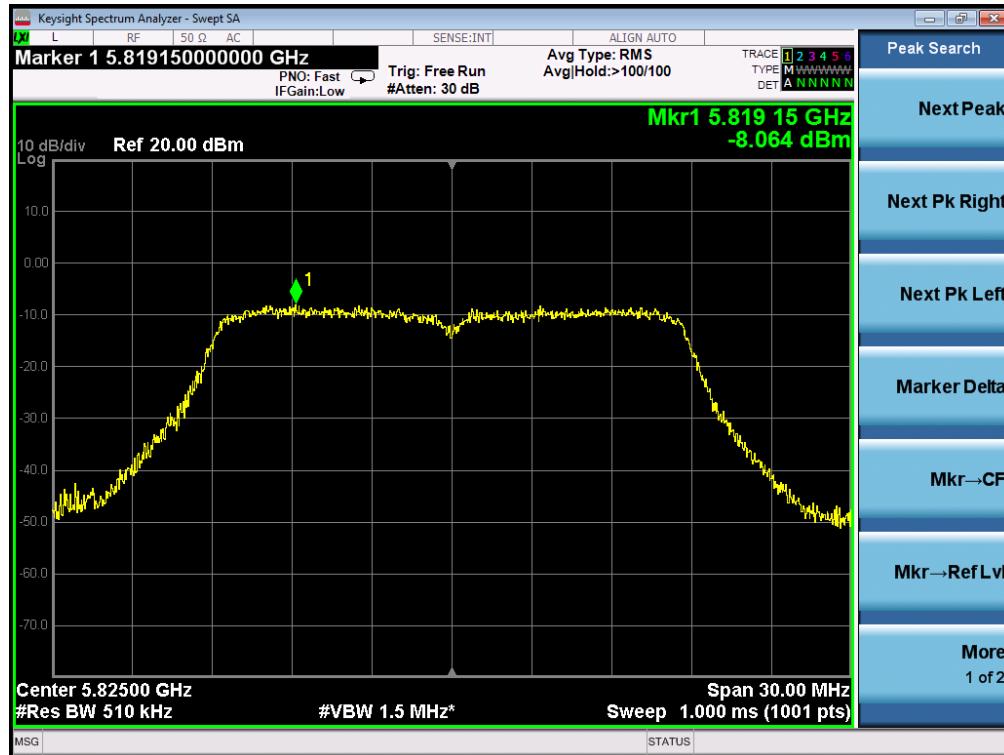
## TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz AT CHAIN 0



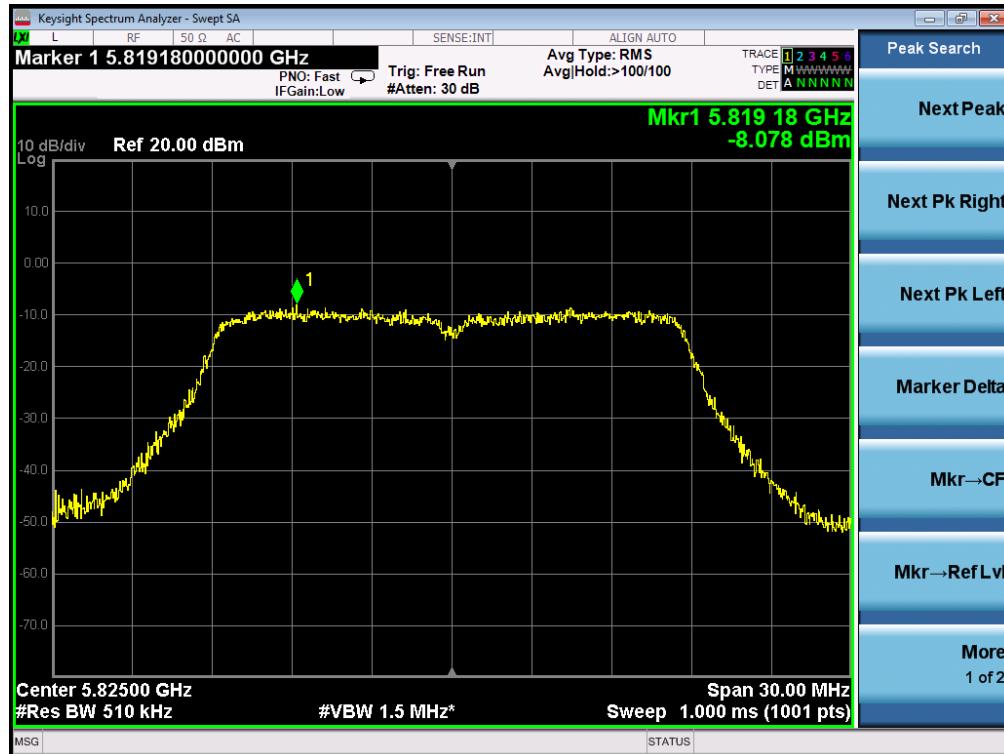
## TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz AT CHAIN 1



## TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz AT CHAIN 0

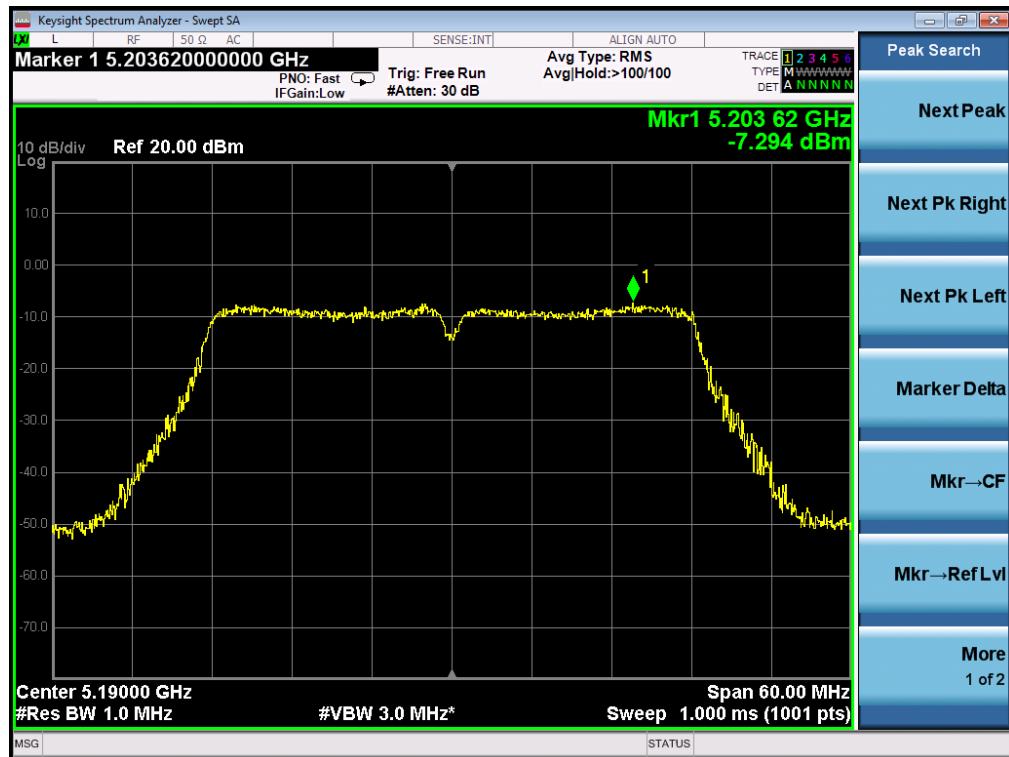


## TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz AT CHAIN 1

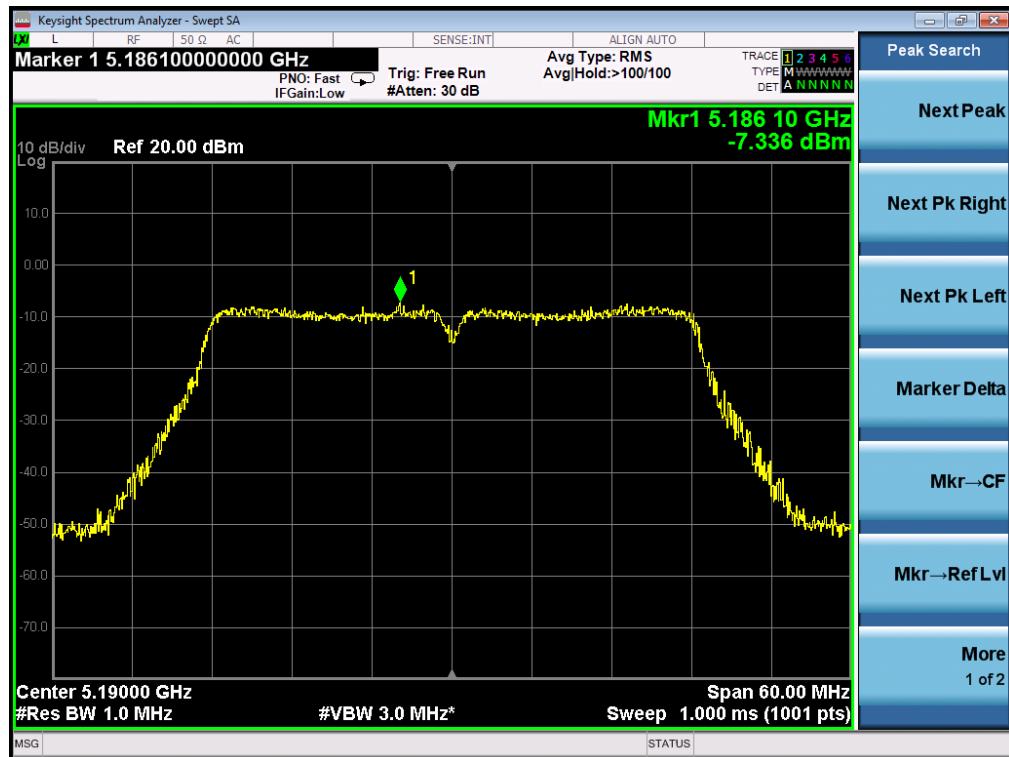


## 802.11ac40 TEST RESULT

### TEST PLOT OF SPECTRAL DENSITY FOR 5190MHz AT CHAIN 0



### TEST PLOT OF SPECTRAL DENSITY FOR 5190MHz AT CHAIN 1



## TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz AT CHAIN 0



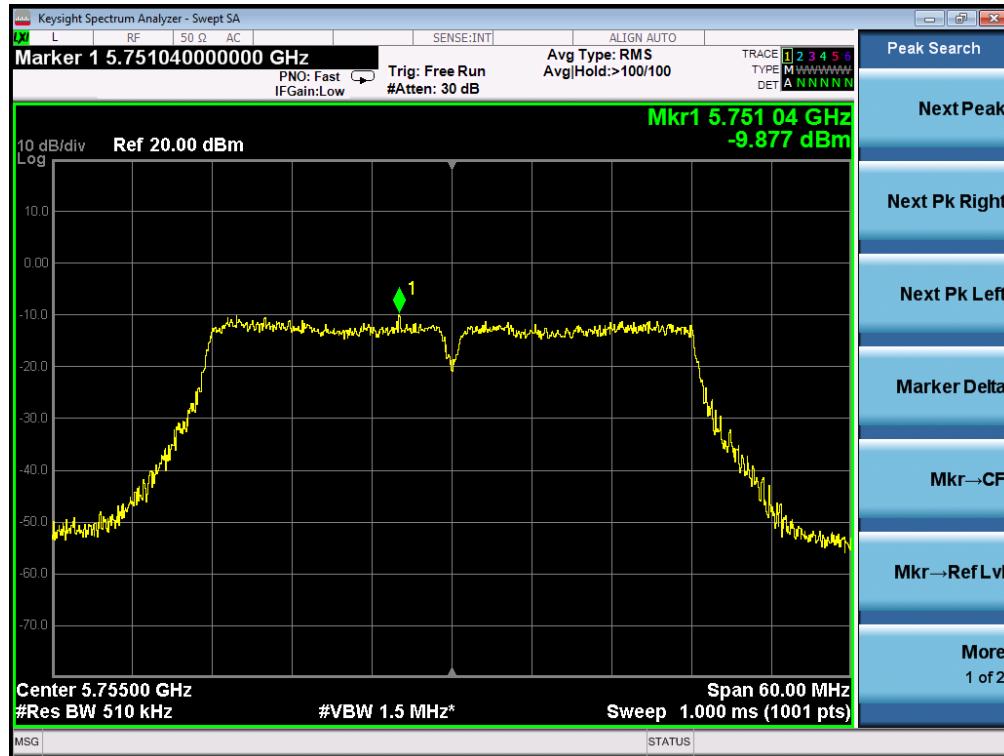
## TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz AT CHAIN 1



## TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz AT CHAIN 0



## TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz AT CHAIN 1



## TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz AT CHAIN 0

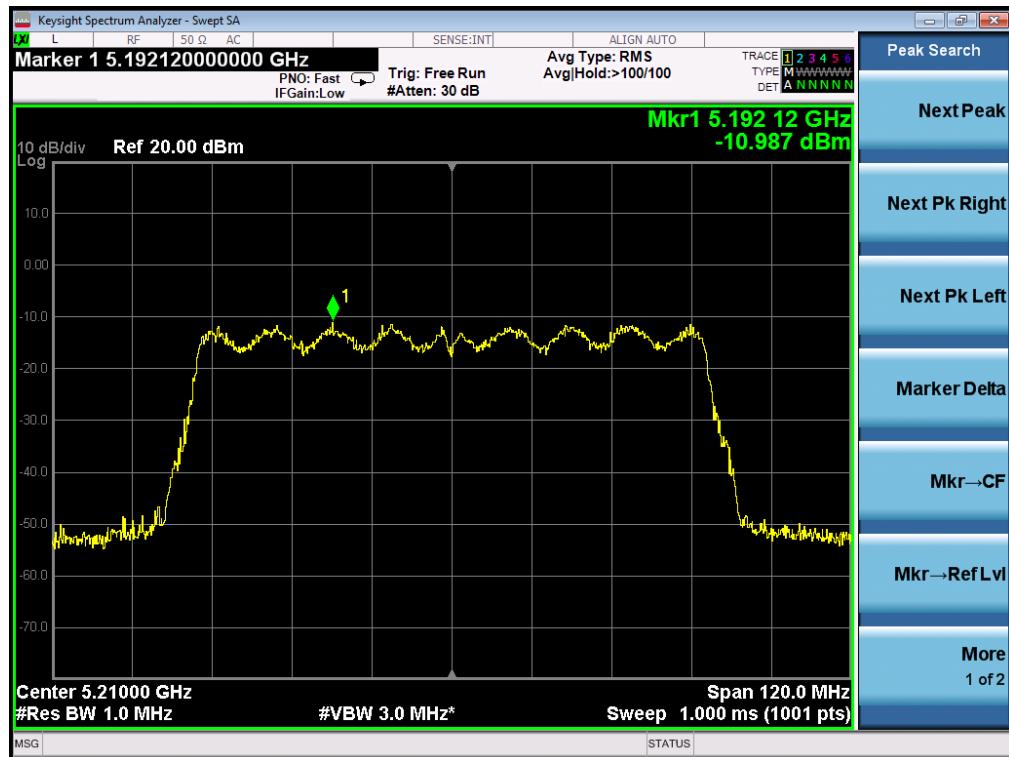


## TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz AT CHAIN 1

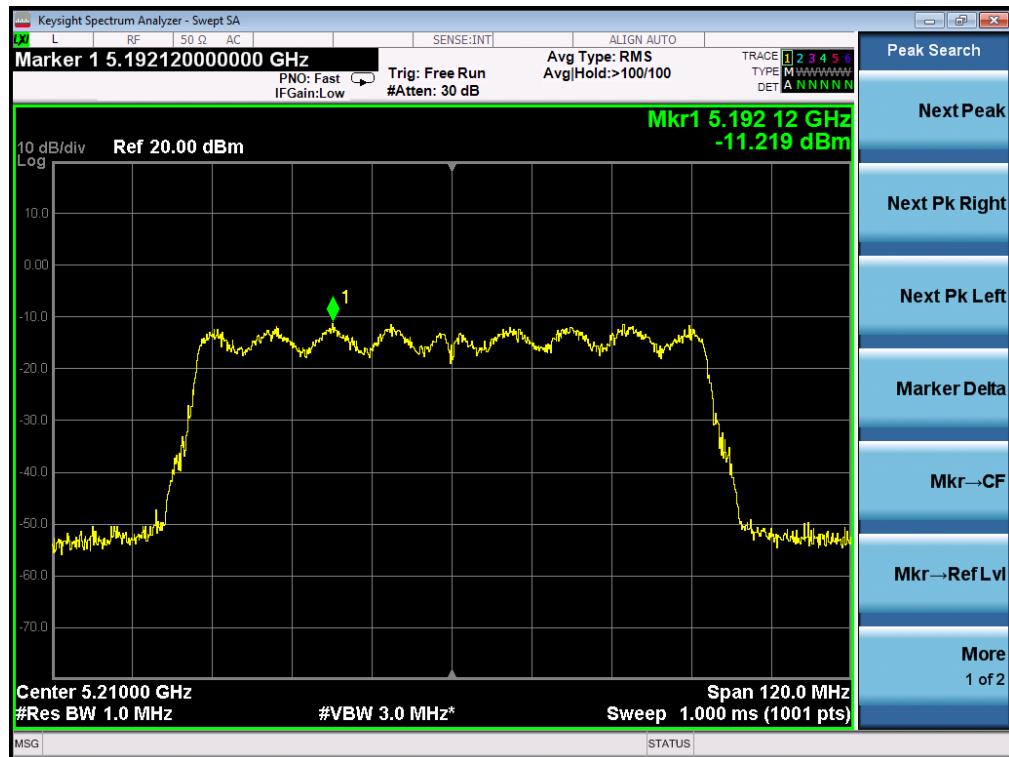


## 802.11ac80 TEST RESULT

### TEST PLOT OF SPECTRAL DENSITY FOR 5210MHz AT CHAIN 0



### TEST PLOT OF SPECTRAL DENSITY FOR 5210MHz AT CHAIN 1



## TEST PLOT OF SPECTRAL DENSITY FOR 5775MHz AT CHAIN 0



## TEST PLOT OF SPECTRAL DENSITY FOR 5775MHz AT CHAIN 1



## 8. CONDUCTED SPURIOUS EMISSION

### 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 Trace 1 Max hold, then View.

**Note:** The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

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

The same as described in section 8.2.

### 8.3. MEASUREMENT EQUIPMENT USED

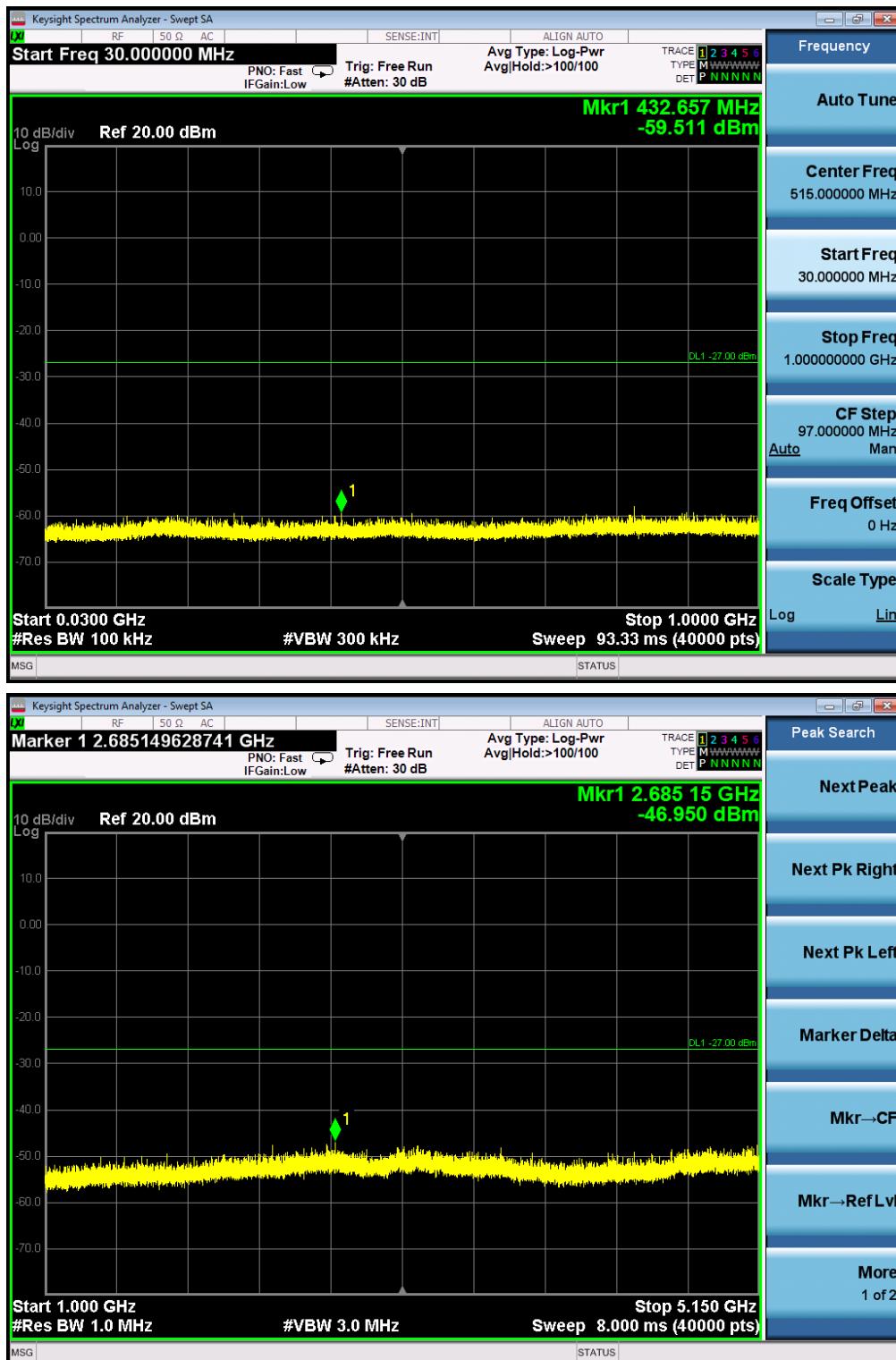
The same as described in section 6.

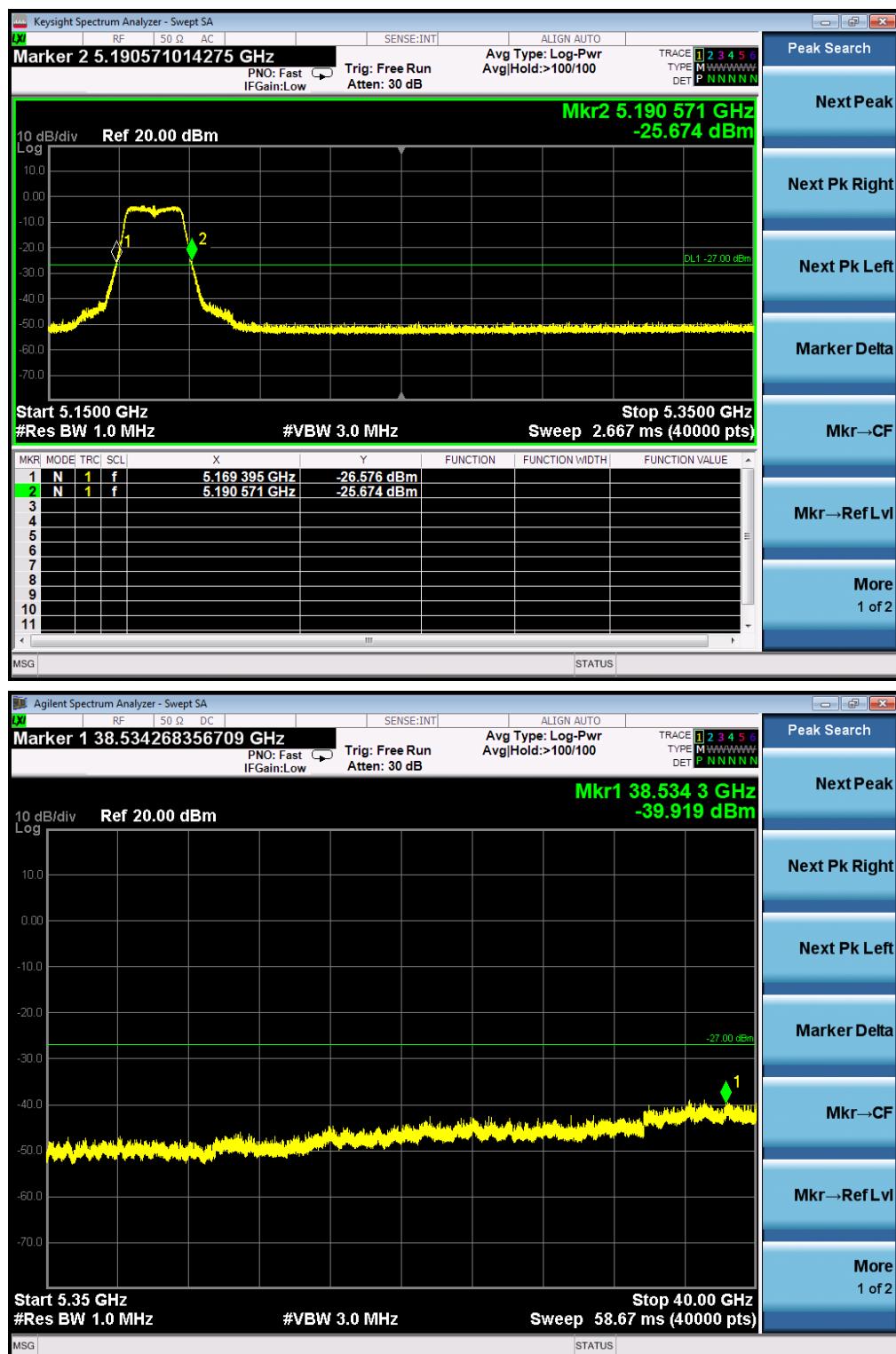
### 8.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test channel	Criteria
-27dBm/MHz	5150MHz-5250MHz	PASS
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	5725MHz-5850MHz	PASS

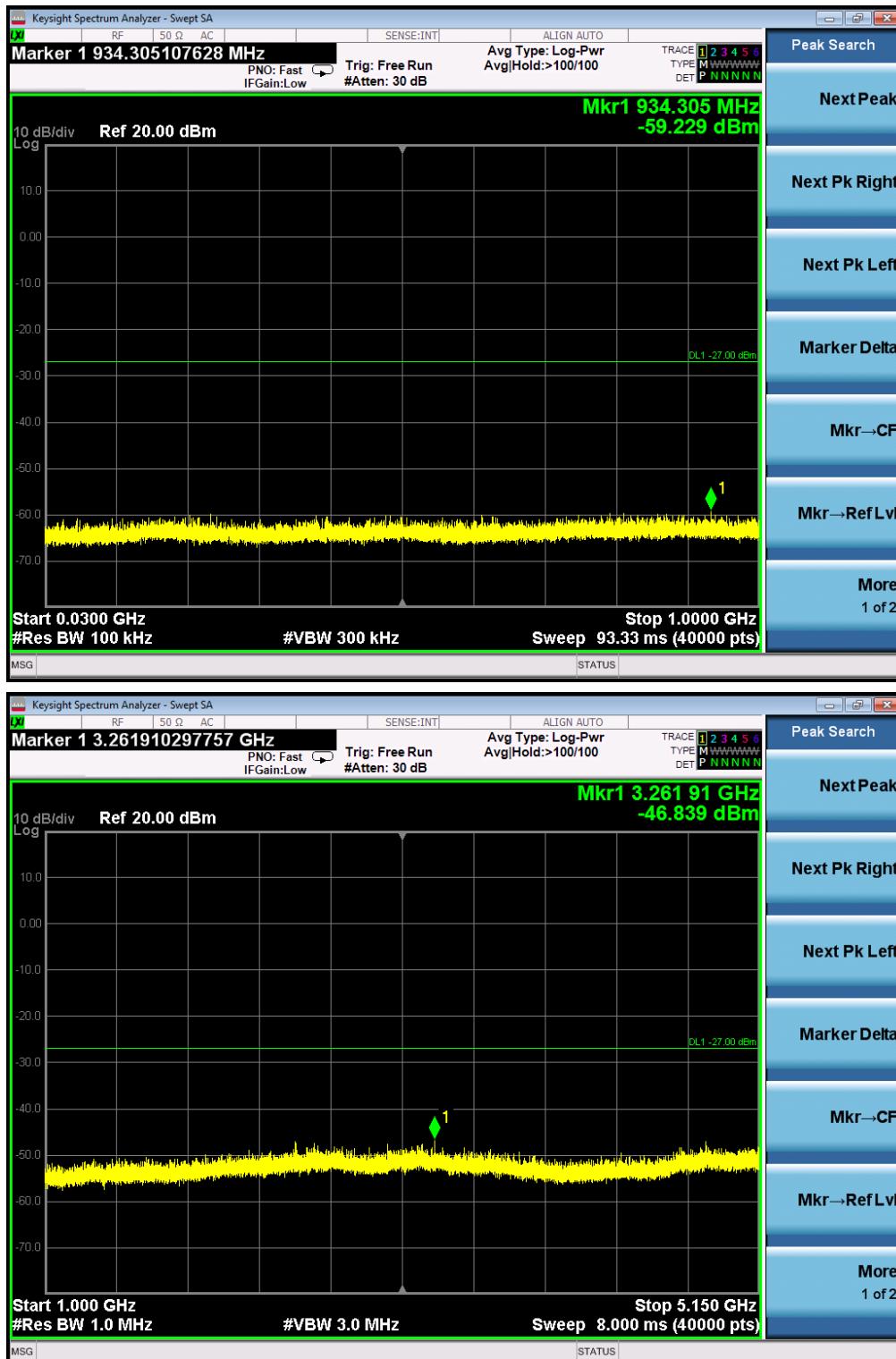
### FOR 802.11A20 MODULATION

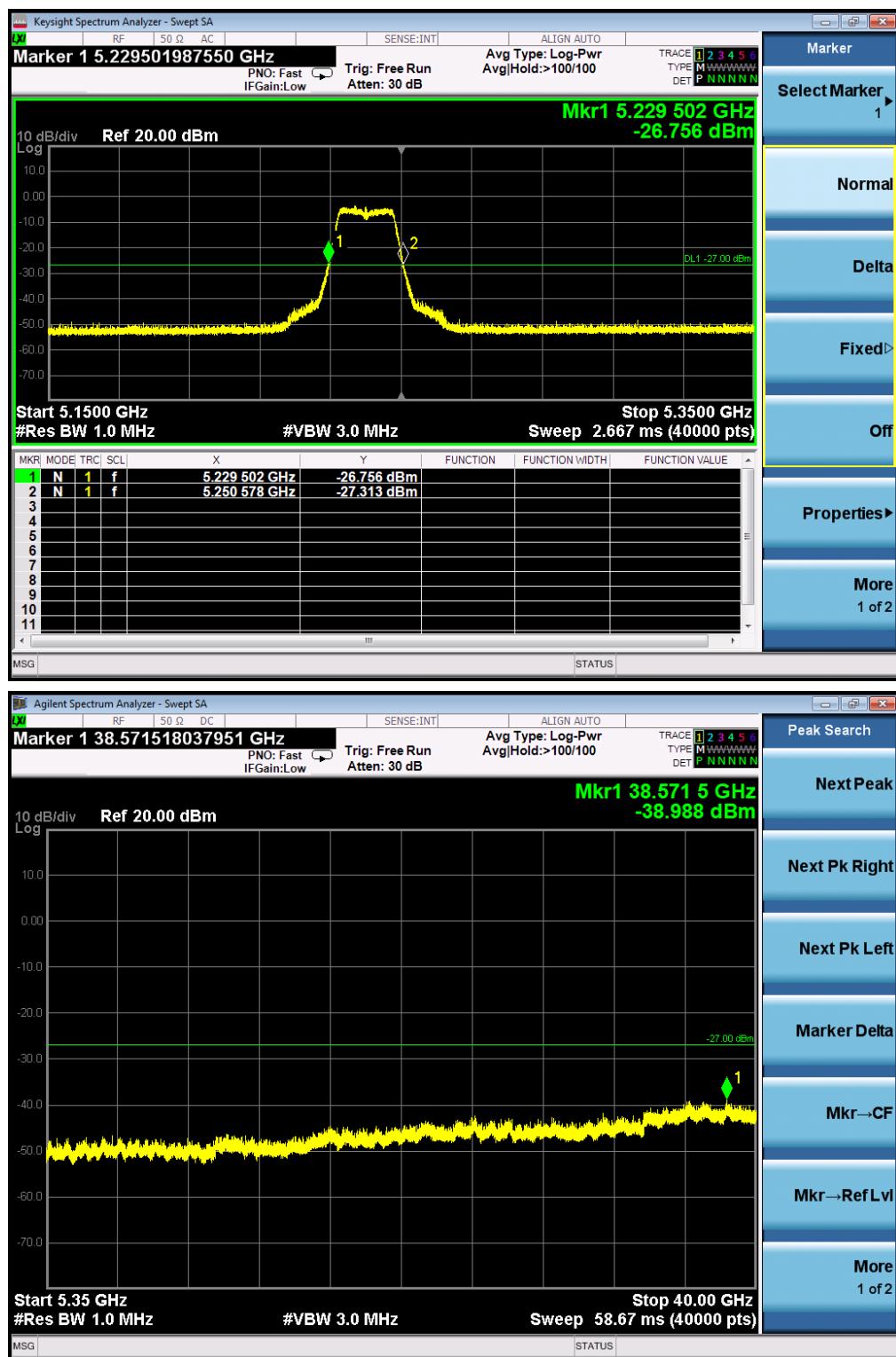
#### TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5180MHz





## TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5240MHz





## TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5745MHz

