

# FCC UNII REPORT

## FCC Certification

**Applicant Name:**  
SAMSUNG Electronics Co., Ltd.

**Date of Issue:**  
June 02, 2017

**Address:**  
129, Samsung-ro, Yeongtong-gu, Suwon-si,  
Gyeonggi-do, 16677, Rep. of Korea

**Test Site/Location:**  
HCT CO., LTD., 74,Seoicheon-ro 578beon-gil,Majang-  
myeo,Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

**Report No.:** HCT-R-1706-F024

**HCT FRN:** 0005866421

**FCC ID : A3LSMW728Y**

**APPLICANT : SAMSUNG Electronics Co., Ltd.**

**Model:** SM-W728Y

**Additional model:** SM-W727Y

**EUT Type:** Tablet

**Modulation type** OFDM

**FCC Classification:** Unlicensed National Information Infrastructure(UNII)

**FCC Rule Part(s):** Part 15.407

Band	Mode	Channel Bandwidth (MHz)	Frequency Range (MHz)	Ant.0 Power (dBm)	Ant.1 Power (dBm)	Ant. 0 & 1 Power (dBm)
UNII1	802.11a	20	5180 – 5240	12.05	12.00	14.98
	802.11n	20	5180 – 5240	11.17	10.99	14.07
	802.11n	40	5190 - 5230	10.10	10.06	12.94
	802.11ac	20	5180 – 5240	10.94	10.98	13.97
	802.11ac	40	5190 - 5230	10.14	10.12	13.03
	802.11ac	80	5210	9.93	10.13	13.00
UNII2A	802.11a	20	5260 – 5320	12.01	11.78	14.91
	802.11n	20	5260 – 5320	11.18	10.80	14.00
	802.11n	40	5270 – 5310	10.03	9.91	12.98
	802.11ac	20	5260 – 5320	10.93	10.80	13.86
	802.11ac	40	5270 – 5310	10.00	10.14	13.06
	802.11ac	80	5290	9.95	9.85	12.85
UNII2C	802.11a	20	5500 – 5700	12.49	12.31	15.36
	802.11n	20	5500 – 5700	11.48	11.37	14.40
	802.11n	40	5510 – 5670	9.85	9.97	12.92
	802.11ac	20	5500 – 5700	11.47	11.25	14.37
	802.11ac	40	5510 – 5670	9.86	10.07	12.96
	802.11ac	80	5530	9.82	9.59	12.72
UNII3	802.11a	20	5745 – 5825	12.23	12.01	15.00
	802.11n	20	5745 – 5825	11.39	11.07	14.16
	802.11n	40	5755 – 5795	9.99	10.02	12.99
	802.11ac	20	5745 – 5825	11.03	11.09	13.96
	802.11ac	40	5755 – 5795	9.96	10.06	12.96
	802.11ac	80	5775	10.00	9.93	12.94

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)



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**Report prepared by : Jung Lae Cho**  
**Engineer of Telecommunication testing center**



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**Approved by : Jong Seok Lee**  
**Manager of Telecommunication testing center**

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## Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1706-F024	June 02, 2017	- First Approval Report

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## 1. GENERAL INFORMATION

<b>Applicant:</b>	SAMSUNG Electronics Co.,Ltd.
<b>Address:</b>	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
<b>FCC ID:</b>	A3LSMW728Y
<b>EUT Type:</b>	Tablet
<b>Model:</b>	SM-W728Y
<b>Additional model:</b>	SM-W727Y
<b>Date(s) of Tests:</b>	May 02, 2017 ~ June 02, 2017
<b>Place of Tests:</b>	HCT Co., Ltd. 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea

## 2. EUT DESCRIPTION

<b>Model</b>	SM-W728Y	
<b>Additional model</b>	SM-W727Y	
<b>EUT Type</b>	Tablet	
<b>Power Supply</b>	DC 7.7 V	
<b>Battery Information</b>	Model: EB-BW720ABE Type: Li-ion Battery	
<b>Frequency Range</b>	TX_20 MHz BW:	5180 MHz - 5240 MHz (UNII 1) / 5260 MHz - 5320 MHz (UNII 2A)/ 5500 MHz - 5700 MHz (UNII 2C) / 5745 MHz - 5825 MHz (UNII 3)
	40 MHz BW:	5190 MHz - 5230 MHz (UNII 1) / 5270 MHz - 5310 MHz (UNII 2A)/ 5510 MHz - 5670 MHz (UNII 2C) / 5755 MHz - 5795 MHz (UNII 3)
	80 MHz BW:	5210 MHz (UNII 1) / 5290 MHz (UNII 2A)/ 5530 MHz (UNII 2C) / 5775 MHz (UNII 3)
	RX_20 MHz BW:	5180 MHz - 5240 MHz (UNII 1) / 5260 MHz - 5320 MHz (UNII 2A)/ 5500 MHz - 5700 MHz (UNII 2C) / 5745 MHz - 5825 MHz (UNII 3)
	40 MHz BW:	5190 MHz - 5230 MHz (UNII 1) / 5270 MHz - 5310 MHz (UNII 2A)/ 5510 MHz - 5670 MHz (UNII 2C) / 5755 MHz - 5795 MHz (UNII 3)
	80 MHz BW:	5210 MHz (UNII 1)/ 5290 MHz (UNII 2A)/ 5530 MHz (UNII 2C)/ 5775 MHz (UNII 3)
<b>Modulation Type</b>	OFDM(802.11a, 802.11n, 802.11ac)	
<b>Antenna Specification</b>	Manufacturer: Ethertronics, Inc. Antenna type: INTERNAL ANTENNA Peak Gain : cf. Section 6	

## 2.1 EUT OPERATING MODE

### ▣ Operating mode

Mode	Operating Mode	Operating Ant.
802.11a/n/ac	SISO	Ant 0
		Ant 1
	MIMO(CDD,SDM)	Ant 0 & 1

Note : In case of radiation test, we have done all test case. Worst case is MIMO(CDD, Ant 0 & 1).

So, we attached the results of only worst case.

### **3. TEST METHODOLOGY**

The measurement procedure described in FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04 dated May 2, 2017 entitled “ Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part15, Subpart E” and ANSI C63.10(Version : 2013) ‘the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices’ were used in the measurement. For 802.11ac, KDB644545 D03 v01 dated August 14, 2014.

#### **3.1 EUT CONFIGURATION**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

#### **3.2 EUT EXERCISE**

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.407 under the FCC Rules Part 15 Subpart E.

#### **3.3 GENERAL TEST PROCEDURES**

##### **Conducted Emissions**

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10. (Version :2013) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

##### **Radiated Emissions**

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz. Above 1GHz with 1.5m using absorbers between the EUT and receive antenna. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 8 of ANSI C63.10. (Version: 2013)

##### **Conducted Antenna Terminal**

See Section from 8.1 to 8.4.(KDB 789033 D02 v01r04)

#### **3.4 DESCRIPTION OF TEST MODES**

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

## 4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2006).

## 5. FACILITIES AND ACCREDITATIONS

### 5.1 FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 07, 2015 (Registration Number: 90661)

### 5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

## 6. ANTENNA REQUIREMENTS

### According to FCC 47 CFR §15.203, §15.407

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

\* The antennas of this E.U.T are permanently attached.

\* The E.U.T Complies with the requirement of §15.203, §15.407

▣ **Directional Gain Calculations**

- **If any transmit signals are correlated with each other (CDD, 802.11a/n/ac)**

$$\text{Directional gain} = 10 \cdot \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N] \text{ dBi}$$

- **If all transmit signals are completely uncorrelated with each other (SDM, 802.11n/ac)**

$$\text{Directional gain} = 10 \cdot \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N] \text{ dBi}$$

▣ **Antenna Gain**

5GHz Band (UNII 1)

Antenna Gain	Ant 0	-0.51 dBi
	Ant 1	-2.61 dBi
Directional Antenna Gain	Ant 0 & 1	1.51 dBi

5GHz Band (UNII 2A)

Antenna Gain	Ant 0	-0.81 dBi
	Ant 1	-2.85 dBi
Directional Antenna Gain	Ant 0 & 1	1.24 dBi

5GHz Band (UNII 2C)

Antenna Gain	Ant 0	-2.49 dBi
	Ant 1	-2.53 dBi
Directional Antenna Gain	Ant 0 & 1	0.50 dBi

5GHz Band (UNII 3)

Antenna Gain	Ant 0	-1.93 dBi
	Ant 1	-2.26 dBi
Directional Antenna Gain	Ant 0 & 1	0.92 dBi

Note : This EUT is supported CDD (802.11a/n/ac) and SDM (802.11n/ac). So, we applied the CDD mode for antenna gain. Because highest gain is CDD mode and worst case is CDD mode.

## 7. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014.

All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95 % level of confidence.

Parameter	Expanded Uncertainty ( $\pm$ dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.82
Radiated Disturbance (9 kHz ~ 30 MHz)	3.40
Radiated Disturbance (30 MHz ~ 1 GHz)	4.80
Radiated Disturbance (1 GHz ~ 18 GHz)	5.70

## 8. SUMMARY OF TEST RESULTS

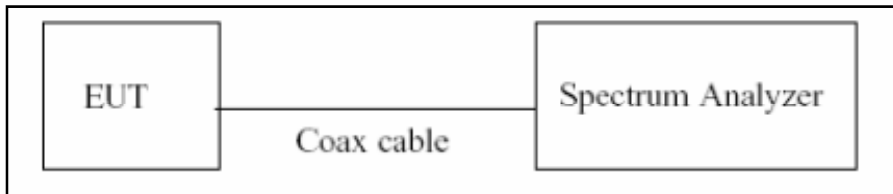
Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
26dB Bandwidth	§15.407 (for Power Measurement)	N/A	CONDUCTED	PASS
6 dB Bandwidth	§15.407(e)	>500 kHz (5725-5850 MHz)		PASS
Maximum Conducted Output Power	§15.407(a)	< 250 mW (5150-5250 MHz) < 250 mW or 11+10 log log <sub>10</sub> (BW) dBm (5250-5350 MHz) < 250 mW or 11+10 log log <sub>10</sub> (BW) dBm (5470-5725 MHz) <1 W (5725-5850 MHz)		PASS
Peak Power Spectral Density	§15.407(a)	<11 dBm/ MHz (5150-5250 MHz) <11 dBm/ MHz (5250-5350 MHz) <11 dBm/ MHz (5470-5725 MHz) <30 dBm/500 kHz(5725-5850 MHz)		PASS
Frequency Stability	§15.407(g)	NA		PASS
AC Conducted Emissions 150 kHz-30 MHz	15.207	<FCC 15.207 limits		PASS
Undesirable Emissions	§15.407(b)	<-27 dBm/MHz EIRP (UNII1, 2A, 2C) <-17 dBm/MHz EIRP within 5715-5725 MHz and 5850-5860 MHz (UNII3) <-27 dBm/MHz EIRP outside 5715-5860 MHz (UNII 3)		RADIATED
General Field Strength Limits(Restricted Bands and Radiated Emission Limits)	15.205, 15.407(b)(5), (6)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	PASS	

## 9. TEST RESULT

### 9.1 DUTY CYCLE

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set  $RBW \geq EBW$  if possible; otherwise, set RBW to the largest available value. Set  $VBW \geq RBW$ . Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are  $> 50/T$ , where  $T$  is defined in section B)1)a), and the number of sweep points across duration  $T$  exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if  $T \leq 16.7$  microseconds.)

#### ■ TEST CONFIGURATION



#### ■ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer. We tested according to the zero-span measurement method, (B.2 in KDB 789033 D02 v01r04)

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if  $T \leq 6.25$  microseconds. ( $50/6.25 = 8$ )

The zero-span method was used because all measured  $T$  data are  $> 6.25$  microseconds and both RBW and VBW are  $> 50/T$ .

1. RBW = 8 MHz (the largest available value)
2. VBW = 8 MHz ( $\geq$  RBW)
3. SPAN = 0 Hz
4. Detector = Peak
5. Number of points in sweep  $> 100$
6. Trace mode = Clear write
7. Measure  $T_{total}$  and  $T_{on}$
8. Calculate Duty Cycle =  $T_{on} / T_{total}$  and Duty Cycle Factor =  $10 \cdot \log(1/\text{Duty Cycle})$

**▣ Duty Cycle Factor for ANT 0**

Mode	Data Rate (Mbps)	T <sub>on</sub> (ms)	T <sub>total</sub> (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11a	6	2.063	2.175	0.94821016	0.231
	9	1.385	1.496	0.92528736	0.337
	12	1.043	1.155	0.90322609	0.442
	18	0.704	0.815	0.86330900	0.638
	24	0.531	0.642	0.82648350	0.828
	36	0.363	0.475	0.76421053	1.168
	48	0.276	0.387	0.71317829	1.468
	54	0.249	0.362	0.68596367	1.637
Mode	MCS INDEX	T <sub>on</sub> (ms)	T <sub>total</sub> (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11n_HT20	0	1.924	2.033	0.94599991	0.241
	1	0.982	1.091	0.89962152	0.459
	2	0.668	0.778	0.85791367	0.666
	3	0.508	0.659	0.77070064	1.131
	4	0.352	0.462	0.76161688	1.183
	5	0.273	0.384	0.71046142	1.485
	6	0.247	0.359	0.68831140	1.622
	7	0.228	0.339	0.67217532	1.725
802.11n_HT40	0	0.949	1.054	0.90000000	0.458
	1	0.492	0.596	0.82472669	0.837
	2	0.341	0.445	0.76519991	1.162
	3	0.265	0.370	0.71589073	1.452
	4	0.188	0.294	0.63911359	1.944
	5	0.152	0.257	0.59122675	2.282
	6	0.140	0.246	0.57004874	2.441
	7	0.128	0.234	0.54822326	2.610

Mode	MCS INDEX	T <sub>on</sub> (ms)	T <sub>total</sub> (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ac_VHT20	0	1.932	2.037	0.94810543	0.231
	1	0.988	1.091	0.90530334	0.432
	2	0.674	0.777	0.86702048	0.620
	3	0.516	0.622	0.83018877	0.808
	4	0.355	0.461	0.77083333	1.130
	5	0.280	0.385	0.72761818	1.381
	6	0.252	0.363	0.69495041	1.580
	7	0.232	0.338	0.68763588	1.626
	8	0.200	0.305	0.65624928	1.829
802.11ac_VHT40	0	0.952	1.056	0.90128471	0.451
	1	0.496	0.601	0.82529118	0.834
	2	0.344	0.448	0.76785714	1.147
	3	0.268	0.372	0.72043011	1.424
	4	0.192	0.298	0.64516010	1.903
	5	0.156	0.262	0.59611113	2.247
	6	0.145	0.250	0.57918407	2.372
	7	0.132	0.237	0.55714490	2.540
	8	0.116	0.221	0.52550845	2.794
	9	0.112	0.218	0.51554575	2.877
802.11ac_VHT80	0	0.600	0.710	0.84504140	0.731
	1	0.320	0.430	0.74418605	1.283
	2	0.228	0.334	0.68250958	1.659
	3	0.180	0.285	0.63392910	1.980
	4	0.136	0.242	0.56315861	2.494
	5	0.112	0.218	0.51456409	2.886
	6	0.104	0.209	0.49696006	3.037
	7	0.096	0.192	0.49999896	3.010
	8	0.088	0.184	0.47926183	3.194
	9	0.084	0.180	0.46823584	3.295

■ Duty Cycle Factor for ANT 01

Mode	Data Rate (Mbps)	T <sub>on</sub> (ms)	T <sub>total</sub> (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11a	6	2.066	2.176	0.94953279	0.225
	9	1.387	1.492	0.92915100	0.319
	12	1.044	1.151	0.90736315	0.422
	18	0.704	0.810	0.86931818	0.608
	24	0.532	0.639	0.83213481	0.798
	36	0.364	0.469	0.77499984	1.107
	48	0.276	0.381	0.72500151	1.397
	54	0.248	0.353	0.70124510	1.541
Mode	MCS INDEX	T <sub>on</sub> (ms)	T <sub>total</sub> (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11n_HT20	0	1.924	2.041	0.94222790	0.258
	1	0.980	1.091	0.89772727	0.469
	2	0.668	0.784	0.85178571	0.697
	3	0.507	0.619	0.81900452	0.867
	4	0.352	0.463	0.76008191	1.191
	5	0.272	0.383	0.70975548	1.489
	6	0.247	0.359	0.68831140	1.622
	7	0.228	0.339	0.67217532	1.725
802.11n_HT40	0	0.949	1.052	0.90177103	0.449
	1	0.492	0.599	0.82164329	0.853
	2	0.340	0.445	0.76438849	1.167
	3	0.264	0.369	0.71583514	1.452
	4	0.188	0.292	0.64347918	1.915
	5	0.152	0.257	0.59207836	2.276
	6	0.140	0.246	0.57142915	2.430
	7	0.128	0.233	0.55021729	2.595

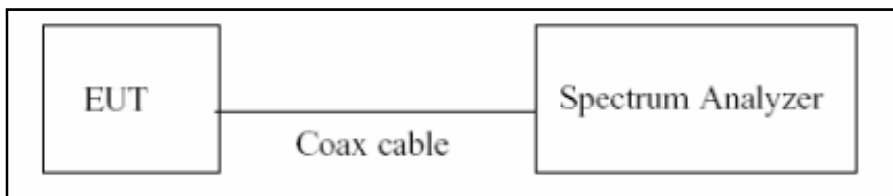
Mode	MCS INDEX	T <sub>on</sub> (ms)	T <sub>total</sub> (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ac_VHT20	0	1.932	2.041	0.94621523	0.240
	1	0.988	1.093	0.90358923	0.440
	2	0.674	0.777	0.86702048	0.620
	3	0.515	0.620	0.83069977	0.806
	4	0.356	0.465	0.76506024	1.163
	5	0.280	0.385	0.72815597	1.378
	6	0.252	0.358	0.70480946	1.519
	7	0.232	0.337	0.68838038	1.622
	8	0.200	0.305	0.65436952	1.842
802.11ac_VHT40	0	0.952	1.061	0.89743590	0.470
	1	0.497	0.601	0.82653015	0.827
	2	0.344	0.454	0.75770925	1.205
	3	0.268	0.374	0.71781369	1.440
	4	0.192	0.297	0.64666732	1.893
	5	0.156	0.267	0.58518585	2.327
	6	0.144	0.250	0.57519906	2.402
	7	0.132	0.237	0.55555602	2.553
	8	0.116	0.222	0.52475270	2.800
	9	0.112	0.217	0.51619353	2.872
802.11ac_VHT80	0	0.600	0.710	0.84504140	0.731
	1	0.320	0.424	0.75460123	1.223
	2	0.228	0.333	0.68575935	1.638
	3	0.180	0.285	0.63288536	1.987
	4	0.136	0.241	0.56433514	2.485
	5	0.113	0.217	0.51879831	2.850
	6	0.104	0.209	0.49826234	3.025
	7	0.096	0.201	0.47833936	3.203
	8	0.088	0.192	0.45848984	3.387
	9	0.084	0.180	0.46666555	3.310

## 9.2 EMISSION BANDWIDTH AND MINIMUM EMISSION BANDWIDTH MEASUREMENT

The bandwidth at 26 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum power control level, as defined in KDB 789033 D02 v01r04, at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26 dB bandwidth.

The 26 dB bandwidth is used to determine the conducted power limits.

### ■ TEST CONFIGURATION



### ■ TEST PROCEDURE (26dB Bandwidth)

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to ( C.1 in KDB 789033 D02 v01r04)

1. RBW = approximately 1 % of the emission bandwidth
2. VBW > RBW
3. Detector = Peak
4. Trace mode = max hold
5. 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 : We tested 26 dB bandwidth using the automatic bandwidth measurement capability of a spectrum analyzer. X dB is set 26 dB.

1. In order to simplify the report, attached plots were only the most wide channel.
2. DFS test channels should be defined. So, We performed the OBW test to prove that no part of the fundamental emissions of any channels belong to UNII1 and UNII3 band for DFS.

**■ TEST PROCEDURE (for the band 5.725-5.85 GHz, 6 dB Bandwidth)**

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to( C.2 in KDB 789033 D02 v01r04)

1. RBW = 100 kHz
2. VBW  $\geq$  3\*RBW
3. Detector = Peak
4. Trace mode = max hold
5. Allow the trace to stabilize
6. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points(upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note : We tested 6 dB bandwidth using the automatic bandwidth measurement capability of a spectrum analyzer. X dB is set 6 dB.

■ TEST RESULTS for Ant.0\_802.11a

Conducted 26 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5180	36	18.43	N/A	Pass
5200	40	18.61	N/A	Pass
5240	48	18.60	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5260	52	18.53	N/A	Pass
5300	60	18.75	N/A	Pass
5320	64	18.50	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

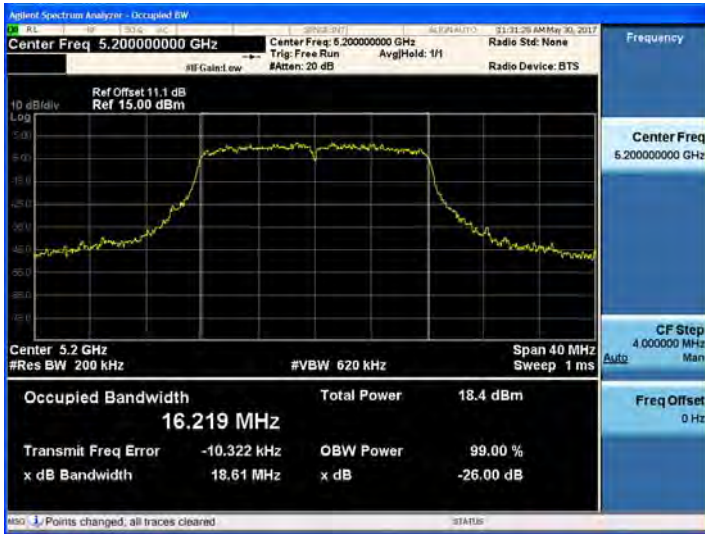
802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	18.43	N/A	Pass
5580	116	18.46	N/A	Pass
5700	140	18.70	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

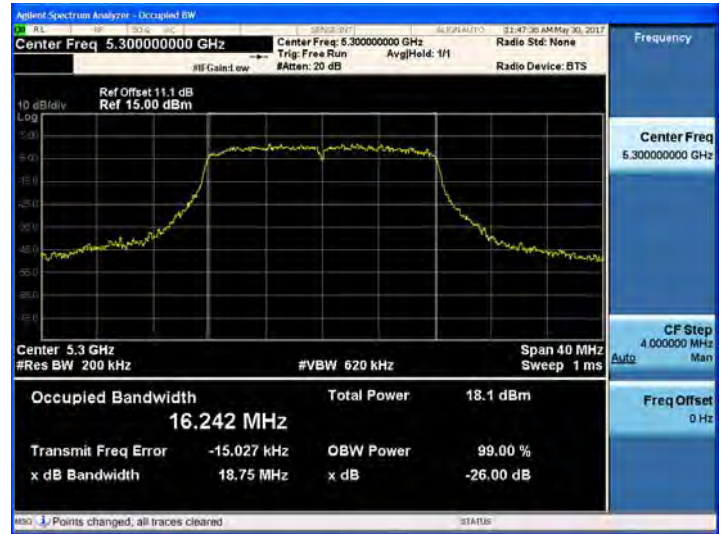
802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	18.57	N/A	Pass
5785	157	18.53	N/A	Pass
5825	165	18.37	N/A	Pass

TEST Plot for Ant.0\_802.11a

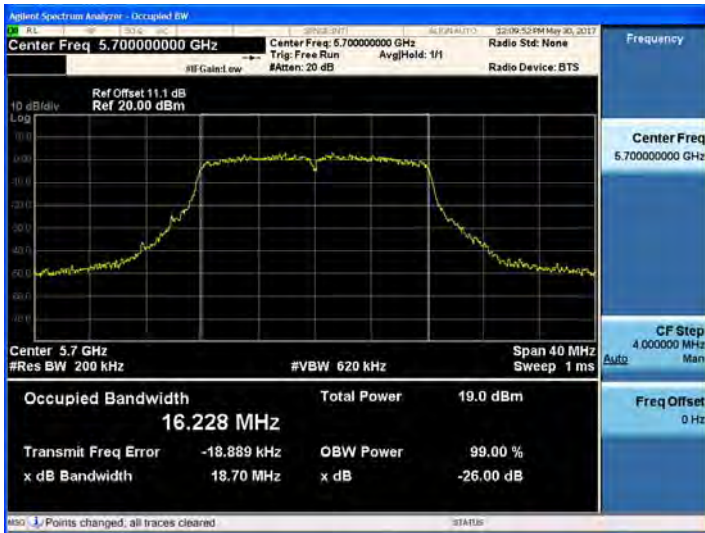
802.11a UNII 1 BAND 26dB Bandwidth (CH 40)



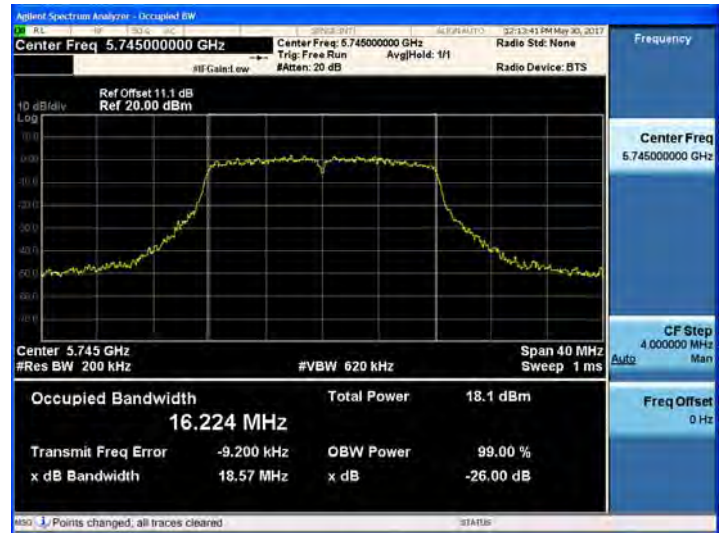
802.11a UNII 2A BAND 26dB Bandwidth (CH 60)



802.11a UNII 2C BAND 26dB Bandwidth (CH 140)



802.11a UNII 3 BAND 26dB Bandwidth (CH 149)



Note : In order to simplify the report, attached plots were only the most wide channel.

■ TEST RESULTS for Ant.1\_802.11a

Conducted 26 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5180	36	18.65	N/A	Pass
5200	40	18.64	N/A	Pass
5240	48	18.78	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5260	52	18.45	N/A	Pass
5300	60	18.81	N/A	Pass
5320	64	18.62	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

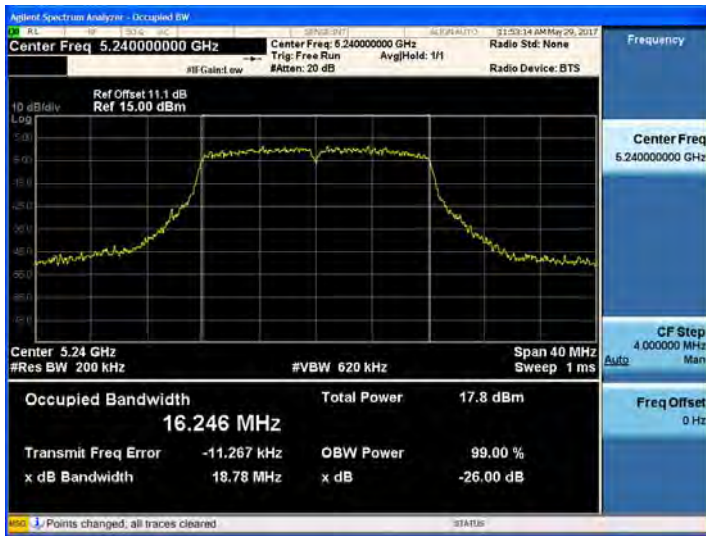
802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	18.77	N/A	Pass
5580	116	18.51	N/A	Pass
5700	140	18.75	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

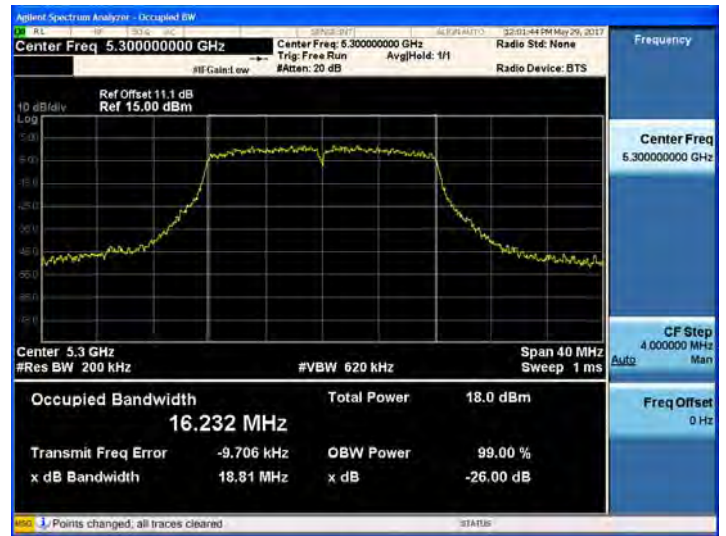
802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	18.40	N/A	Pass
5785	157	18.40	N/A	Pass
5825	165	18.52	N/A	Pass

TEST Plot for Ant.1\_802.11a

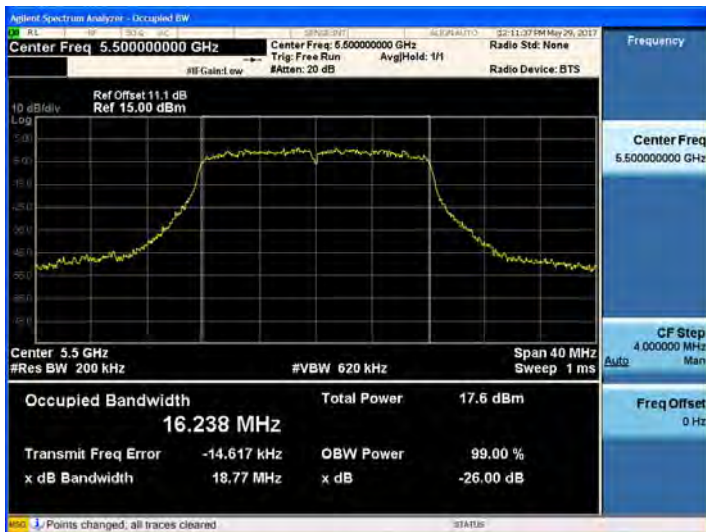
802.11a UNII 1 BAND 26dB Bandwidth (CH 48)



802.11a UNII 2A BAND 26dB Bandwidth (CH 60)



802.11a UNII 2C BAND 26dB Bandwidth (CH 100)



802.11a UNII 3 BAND 26dB Bandwidth (CH 165)



Note : In order to simplify the report, attached plots were only the most wide channel.

**TEST RESULTS for Ant.0\_802.11n\_HT20**

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT20

802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5180	36	19.61	N/A	Pass
5200	40	19.62	N/A	Pass
5240	48	19.65	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT20

802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5260	52	19.77	N/A	Pass
5300	60	19.62	N/A	Pass
5320	64	19.35	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT20

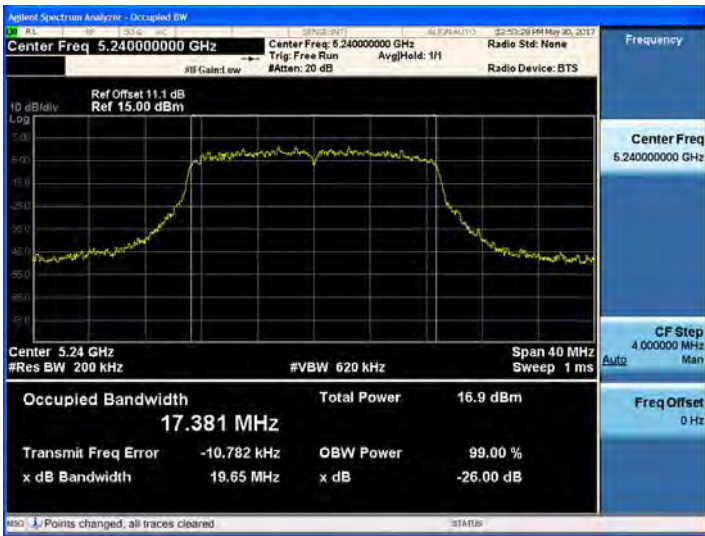
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	19.60	N/A	Pass
5580	116	19.52	N/A	Pass
5700	140	19.57	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT20

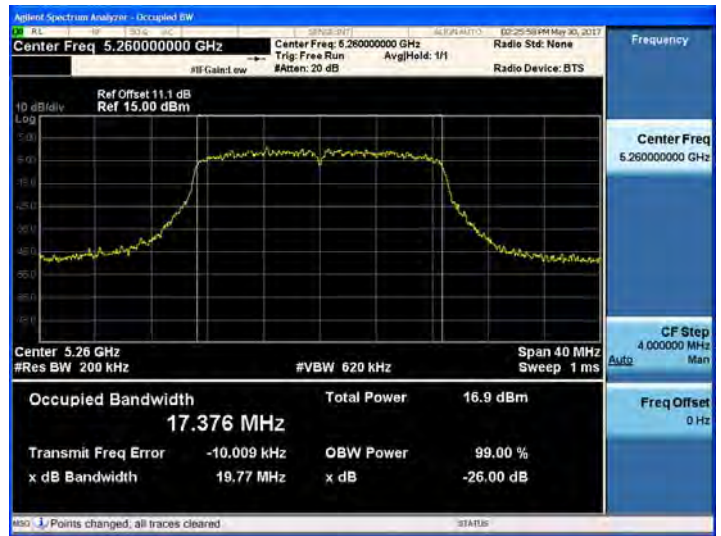
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	19.50	N/A	Pass
5785	157	19.60	N/A	Pass
5825	165	19.70	N/A	Pass

**TEST Plot for Ant.0\_802.11n\_HT20**

**802.11n\_HT20 UNII 1 BAND 26dB Bandwidth(CH 48)**



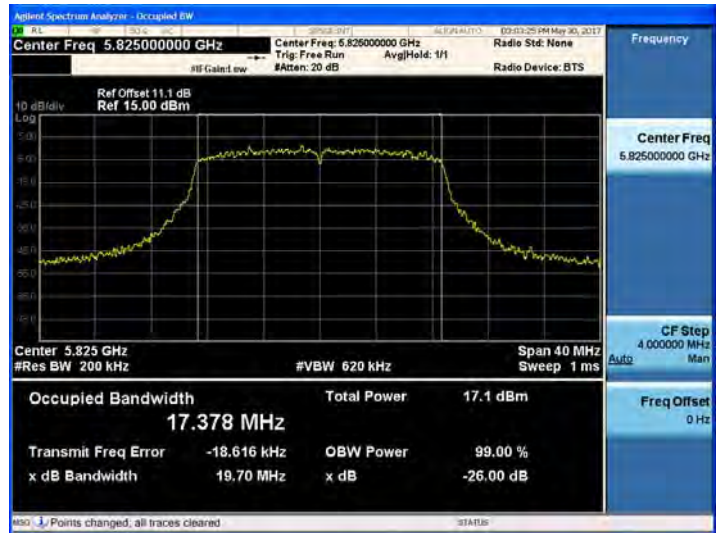
**802.11n\_HT20 UNII 2A BAND 26dB Bandwidth(CH 52)**



**802.11n\_HT20 UNII 2C BAND 26dB Bandwidth(CH 100)**



**802.11n\_HT20 UNII 3 BAND 26dB Bandwidth(CH 165)**



Note : In order to simplify the report, attached plots were only the most wide channel.

■ TEST RESULTS for Ant.1\_802.11n\_HT20

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT20

802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5180	36	19.47	N/A	Pass
5200	40	19.59	N/A	Pass
5240	48	19.49	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT20

802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5260	52	19.57	N/A	Pass
5300	60	19.59	N/A	Pass
5320	64	19.55	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT20

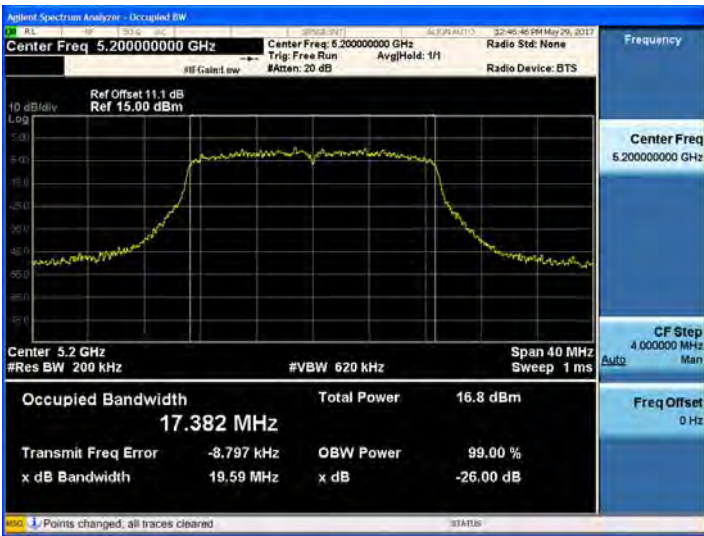
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	19.54	N/A	Pass
5580	116	19.47	N/A	Pass
5700	140	19.56	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT20

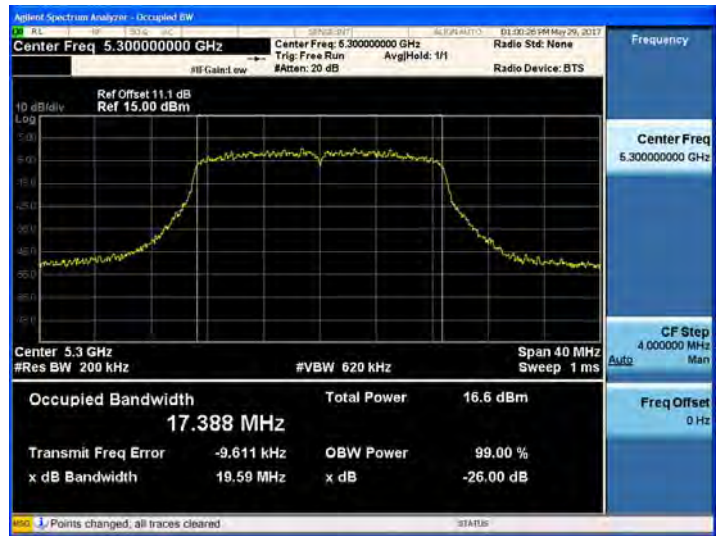
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	19.63	N/A	Pass
5785	157	19.55	N/A	Pass
5825	165	19.74	N/A	Pass

**TEST Plot for Ant.1\_802.11n\_HT20**

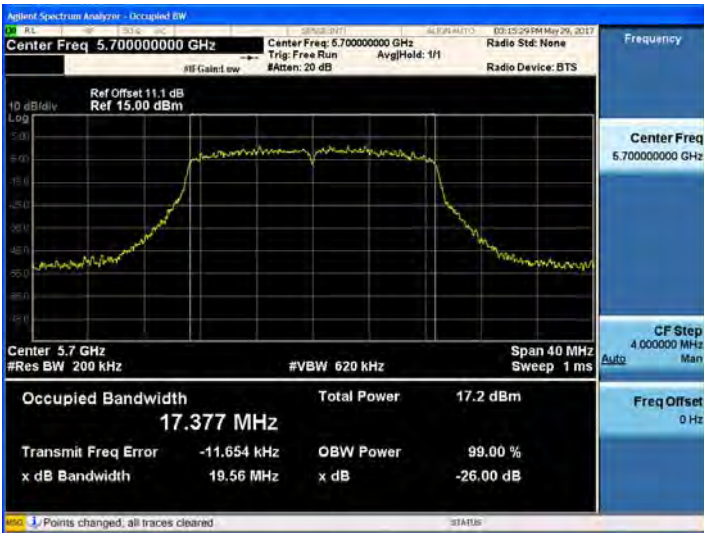
**802.11n\_HT20 UNII 1 BAND 26dB Bandwidth(CH 40)**



**802.11n\_HT20 UNII 2A BAND 26dB Bandwidth(CH 60)**



**802.11n\_HT20 UNII 2C BAND 26dB Bandwidth(CH 140)**



**802.11n\_HT20 UNII 3 BAND 26dB Bandwidth(CH 165)**



Note : In order to simplify the report, attached plots were only the most wide channel.

■ TEST RESULTS for Ant.0\_ 802.11ac\_VHT20

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT20

802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5180	36	19.54	N/A	Pass
5200	40	19.63	N/A	Pass
5240	48	19.54	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT20

802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5260	52	19.68	N/A	Pass
5300	60	19.61	N/A	Pass
5320	64	19.51	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT20

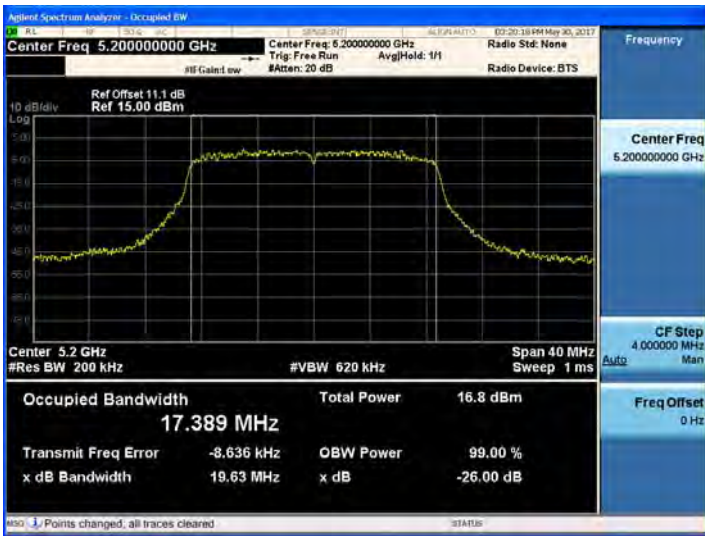
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	19.50	N/A	Pass
5580	116	19.55	N/A	Pass
5700	140	19.49	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT20

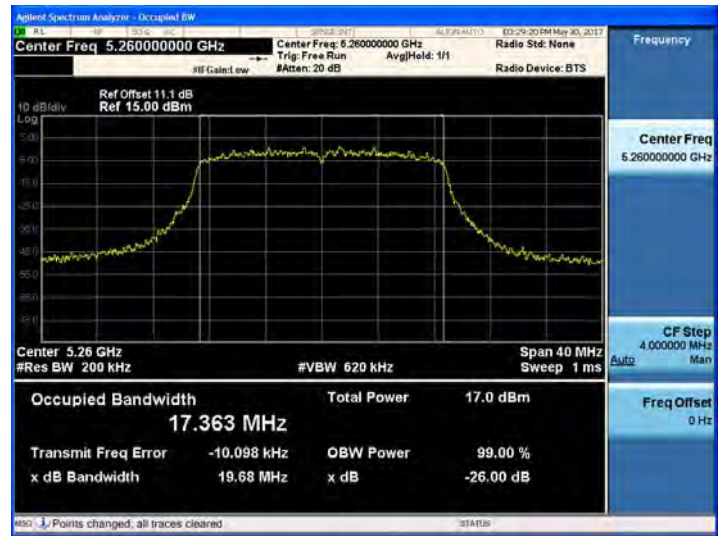
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	19.51	N/A	Pass
5785	157	19.71	N/A	Pass
5825	165	19.68	N/A	Pass

**TEST Plot for Ant.0\_ 802.11ac\_VHT20**

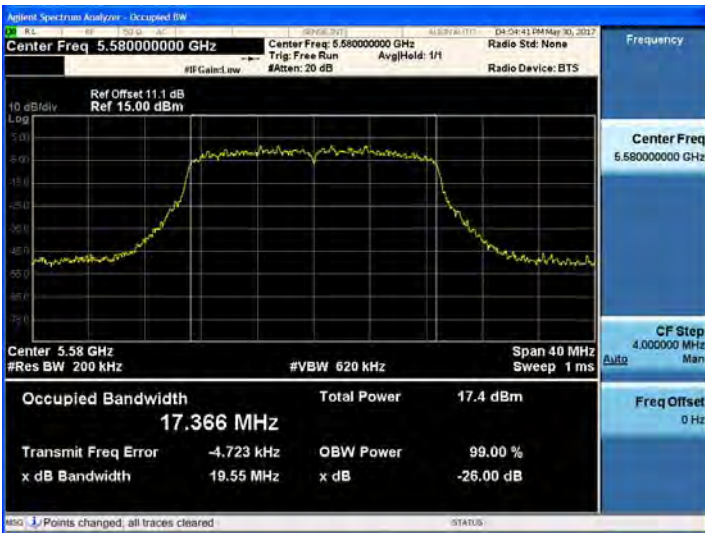
**802.11ac\_VHT20 UNII 1 BAND 26dB Bandwidth(CH 40)**



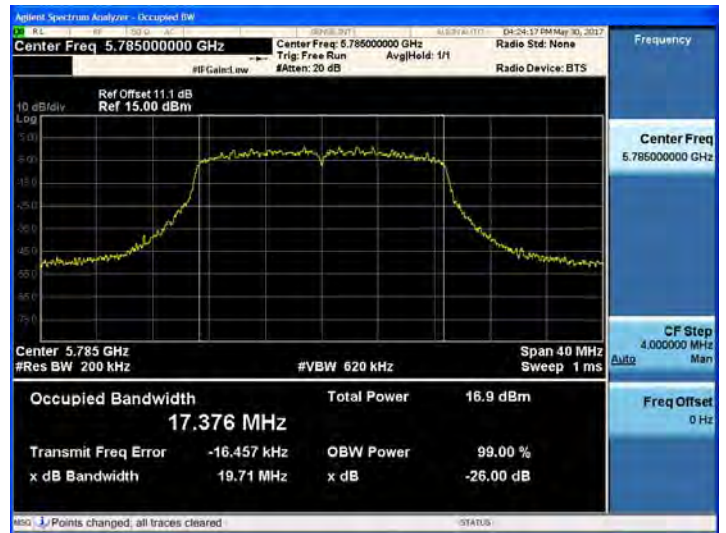
**802.11ac\_VHT20 UNII 2A BAND 26dB Bandwidth(CH 52)**



**802.11ac\_VHT20 UNII 2C BAND 26dB Bandwidth(CH 116)**



**802.11ac\_VHT20 UNII 3 BAND 26dB Bandwidth(CH 157)**



Note : In order to simplify the report, attached plots were only the most wide channel.

■ TEST RESULTS for Ant.1\_ 802.11ac\_VHT20

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT20

802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5180	36	19.61	N/A	Pass
5200	40	19.64	N/A	Pass
5240	48	19.66	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT20

802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5260	52	19.34	N/A	Pass
5300	60	19.52	N/A	Pass
5320	64	19.69	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT20

802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	19.56	N/A	Pass
5580	116	19.59	N/A	Pass
5700	140	19.77	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT20

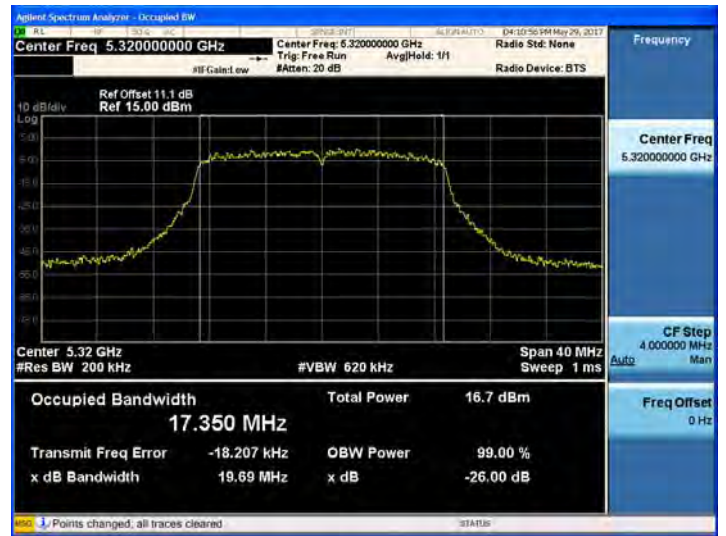
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	19.51	N/A	Pass
5785	157	19.53	N/A	Pass
5825	165	19.58	N/A	Pass

**TEST Plot for Ant.1\_ 802.11ac\_VHT20**

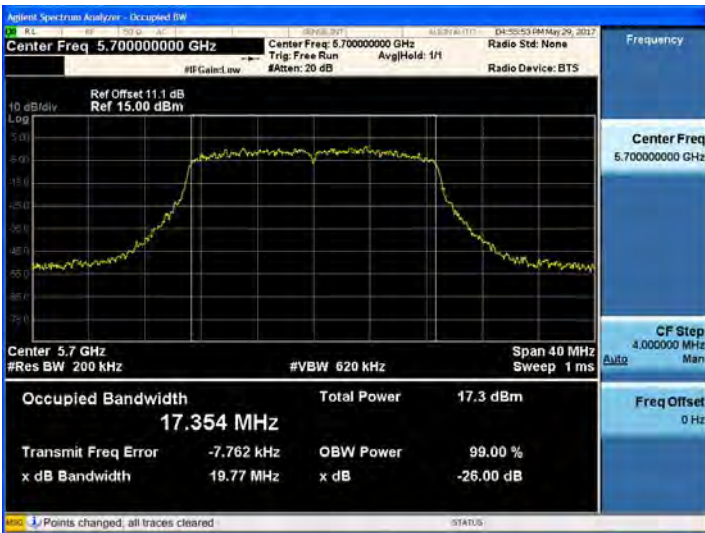
**802.11ac\_VHT20 UNII 1 BAND 26dB Bandwidth(CH 48)**



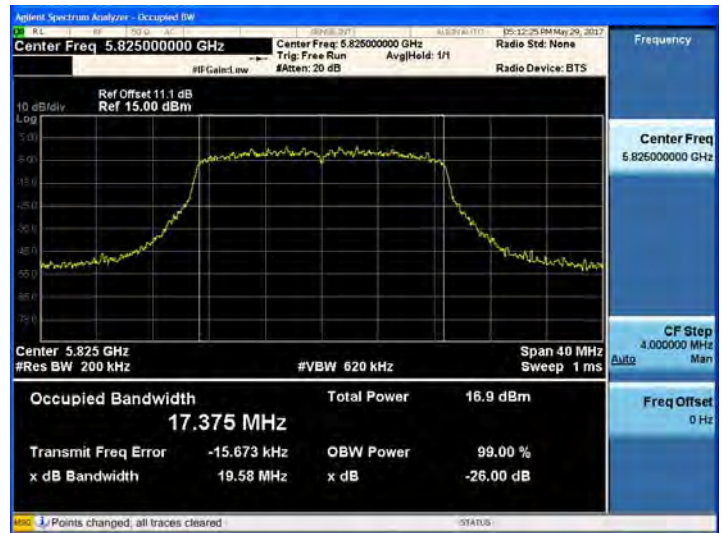
**802.11ac\_VHT20 UNII 2A BAND 26dB Bandwidth(CH 64)**



**802.11ac\_VHT20 UNII 2C BAND 26dB Bandwidth(CH 140)**



**802.11ac\_VHT20 UNII 3 BAND 26dB Bandwidth(CH 165)**



**Note :** In order to simplify the report, attached plots were only the most wide channel.

**■ TEST RESULTS for Ant.0\_802.11n\_HT40**

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT40

802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5190	38	39.95	N/A	Pass
5230	46	40.07	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT40

802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5270	54	39.94	N/A	Pass
5310	62	40.13	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT40

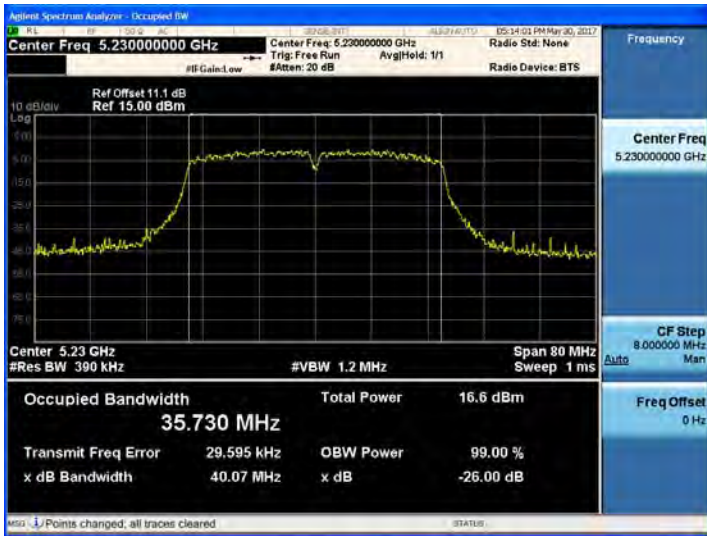
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5510	102	39.79	N/A	Pass
5550	110	39.93	N/A	Pass
5670	134	39.93	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT40

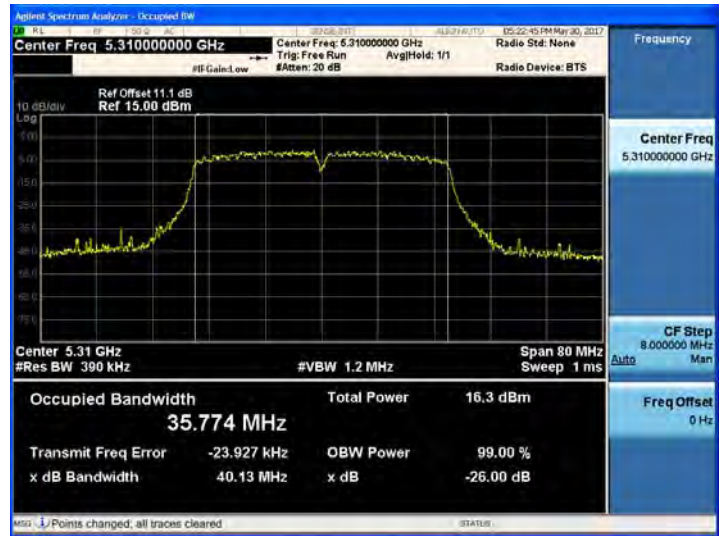
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	40.00	N/A	Pass
5795	159	39.83	N/A	Pass

**TEST Plot for Ant.0\_802.11n\_HT40**

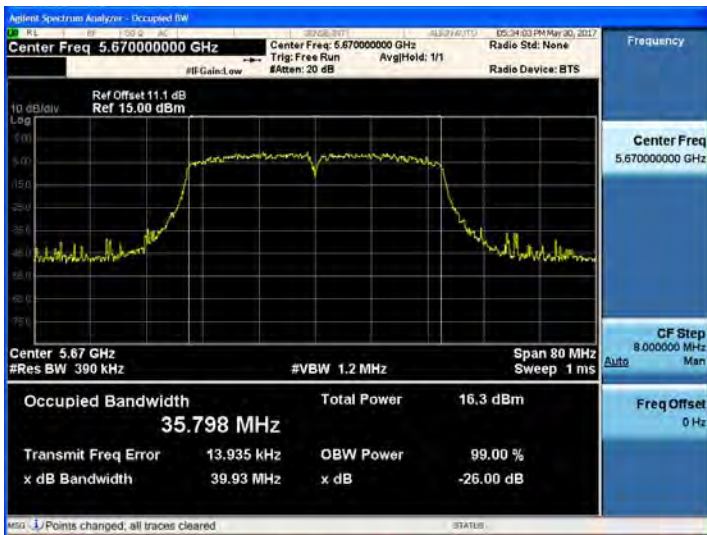
**802.11n\_HT40 UNII 1 BAND 26dB Bandwidth(CH 46)**



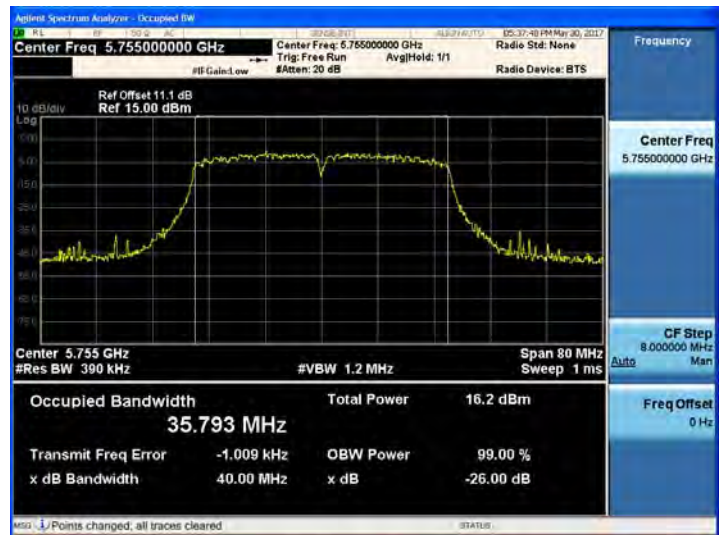
**802.11n\_HT40 UNII 2A BAND 26dB Bandwidth (CH 62)**



**802.11n\_HT40 UNII 2C BAND 26dB Bandwidth(CH 134)**



**802.11n\_HT40 UNII 3 BAND 26dB Bandwidth (CH 151)**



**Note :** In order to simplify the report, attached plots were only the most wide channel.

■ TEST RESULTS for Ant.1\_802.11n\_HT40

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT40

802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5190	38	40.29	N/A	Pass
5230	46	40.04	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT40

802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5270	54	40.02	N/A	Pass
5310	62	40.00	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT40

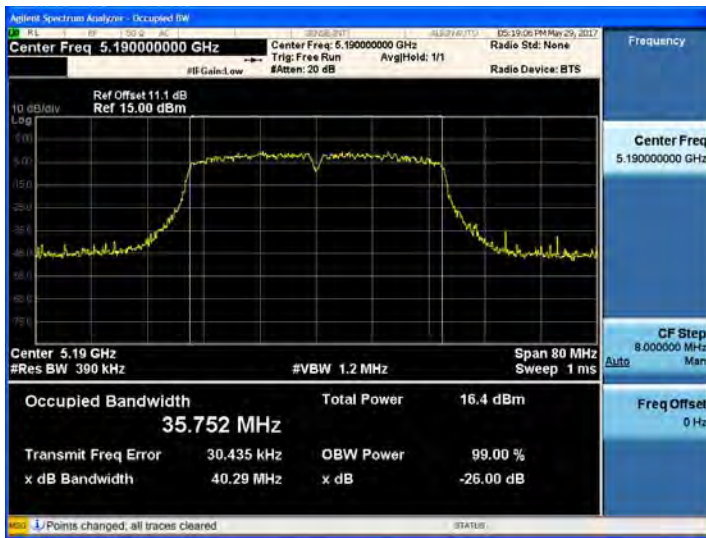
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5510	102	39.95	N/A	Pass
5550	110	39.94	N/A	Pass
5670	134	40.22	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n\_HT40

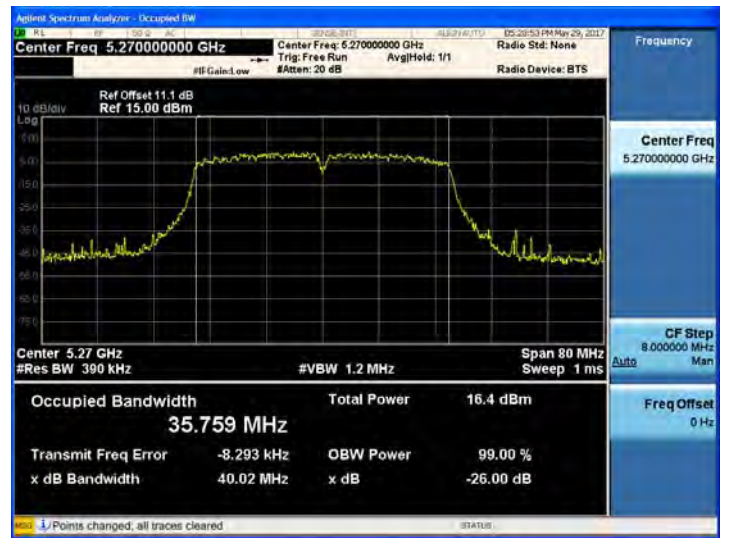
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	39.75	N/A	Pass
5795	159	40.09	N/A	Pass

TEST Plot for Ant.1\_802.11n\_HT40

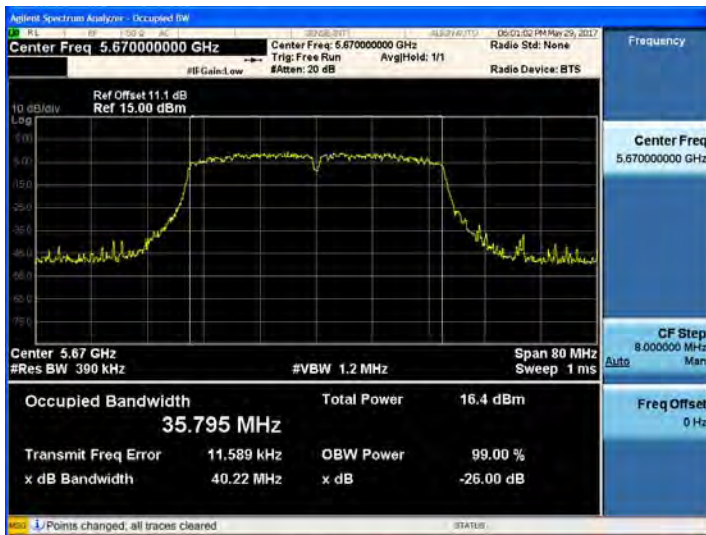
802.11n\_HT40 UNII 1 BAND 26dB Bandwidth(CH 38)



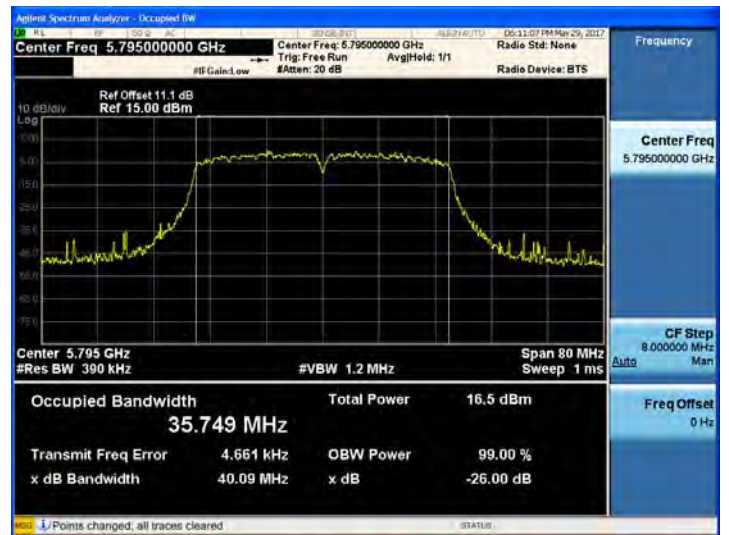
802.11n\_HT40 UNII 2A BAND 26dB Bandwidth (CH 54)



802.11n\_HT40 UNII 2C BAND 26dB Bandwidth(CH 134)



802.11n\_HT40 UNII 3 BAND 26dB Bandwidth (CH 159)



Note : In order to simplify the report, attached plots were only the most wide channel.

■ TEST RESULTS for Ant.0\_802.11ac\_VHT40

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5190	38	39.73	N/A	Pass
5230	46	39.61	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5270	54	39.87	N/A	Pass
5310	62	39.84	N/A	Pass

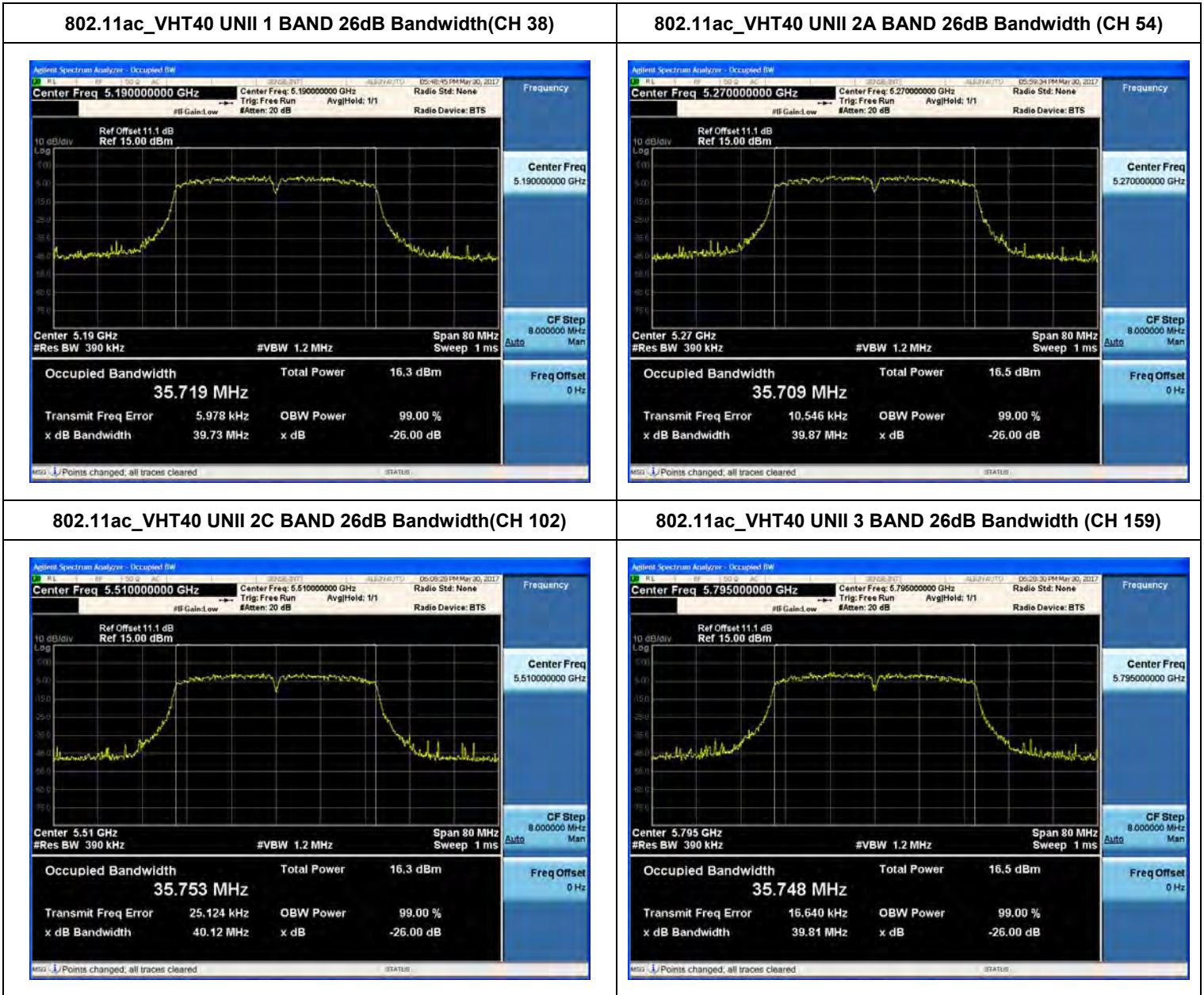
Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5510	102	40.12	N/A	Pass
5550	110	39.95	N/A	Pass
5670	134	39.67	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	39.71	N/A	Pass
5795	159	39.81	N/A	Pass

**TEST Plot for Ant.0\_802.11ac\_VHT40**



**Note :** In order to simplify the report, attached plots were only the most wide channel.

**■ TEST RESULTS for Ant.1\_802.11ac\_VHT40**

## Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5190	38	39.96	N/A	Pass
5230	46	39.69	N/A	Pass

## Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5270	54	39.97	N/A	Pass
5310	62	40.34	N/A	Pass

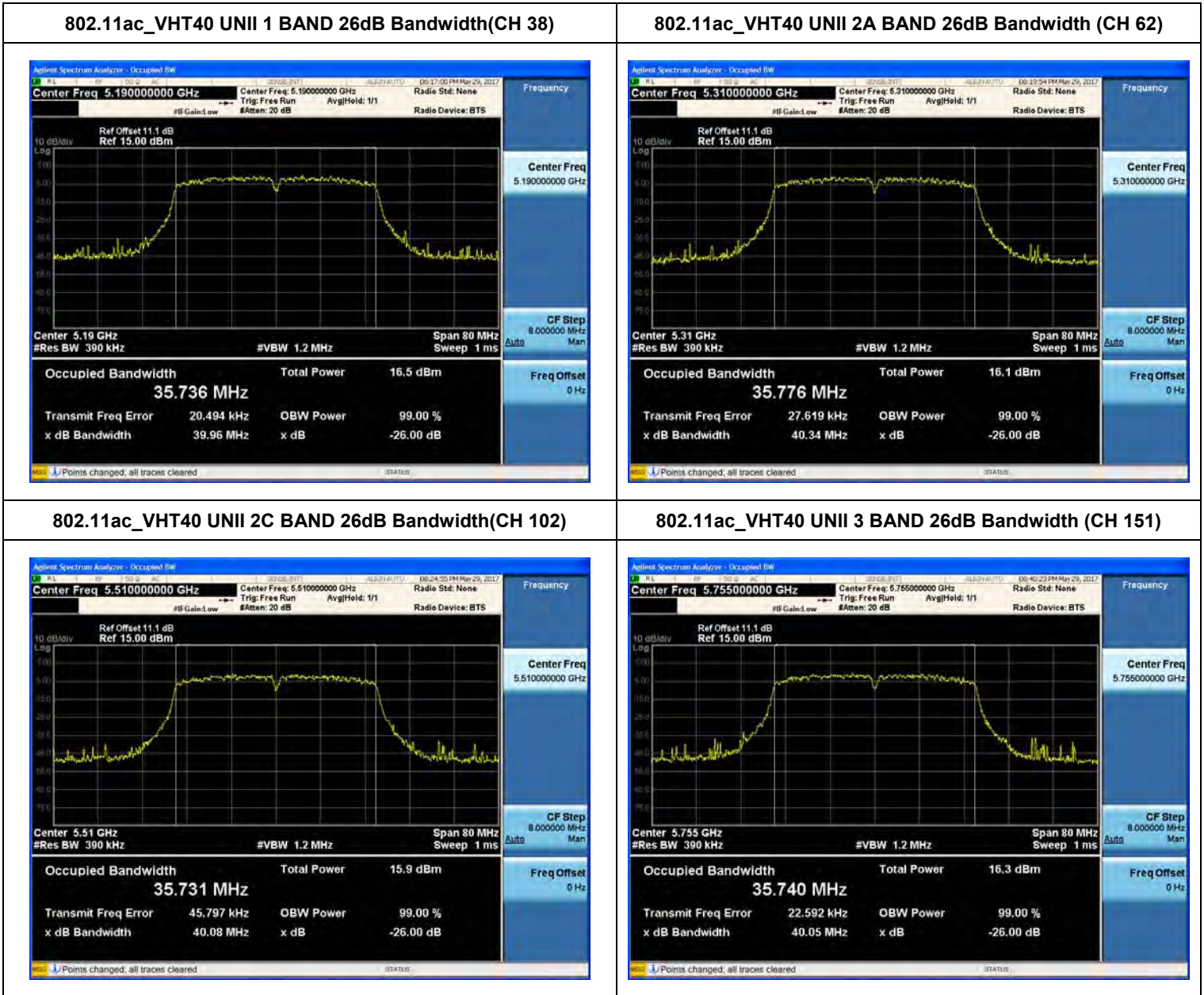
## Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5510	102	40.08	N/A	Pass
5550	110	39.88	N/A	Pass
5670	134	40.06	N/A	Pass

## Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	40.05	N/A	Pass
5795	159	39.64	N/A	Pass

**TEST Plot for Ant.1\_802.11ac\_VHT40**



**Note :** In order to simplify the report, attached plots were only the most wide channel.

■ **TEST RESULTS for Ant.0\_802.11ac\_VHT80**

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5210	42	82.64	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5290	58	82.27	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5530	106	81.91	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT80

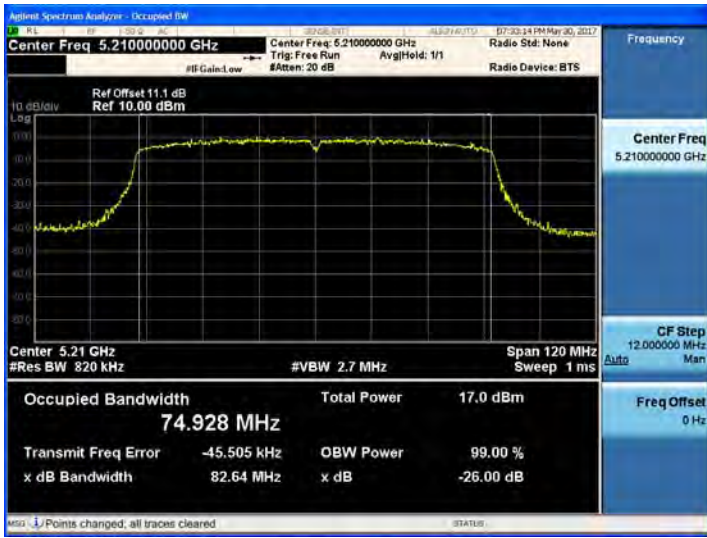
802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5775	155	81.98	N/A	Pass

**Note :**

1. In order to simplify the report, attached plots were only the most wide channel.
2. DFS test channels should be defined. So, We performed the OBW test to prove that no part of the fundamental emissions of any channels belong to UNII1 and UNII3 band for DFS.

**TEST Plot for Ant.0\_802.11ac\_VHT80**

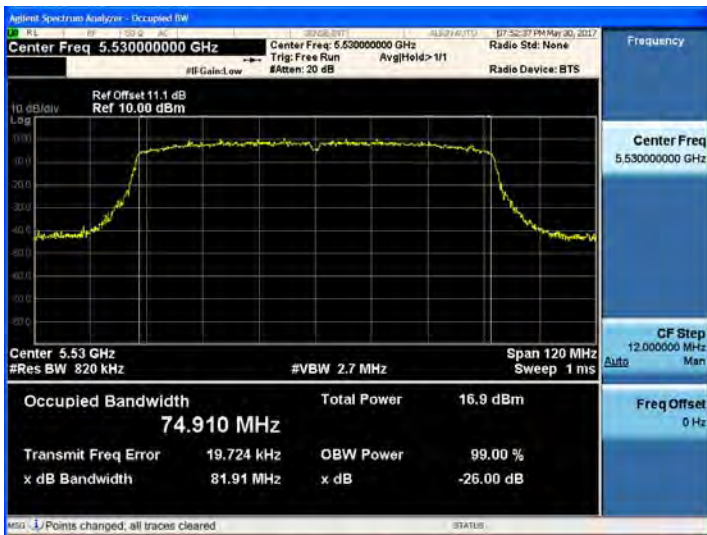
**802.11ac\_VHT80 UNII 1 BAND 26dB Bandwidth(CH 42)**



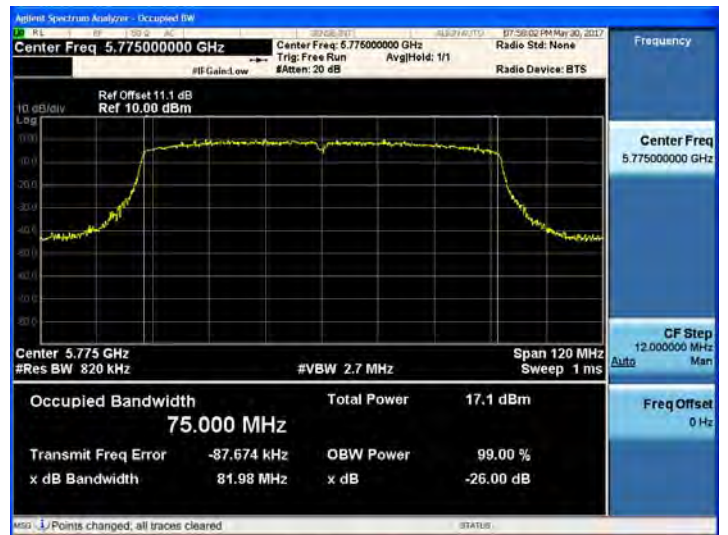
**802.11ac\_VHT80 UNII 2A BAND 26dB Bandwidth(CH 58)**



**802.11ac\_VHT80 UNII 2C BAND 26dB Bandwidth(CH 106)**



**802.11ac\_VHT80 UNII 3 BAND 26dB Bandwidth(CH 155)**



Note : In order to simplify the report, attached plots were only the most wide channel.

■ **TEST RESULTS for Ant.1\_802.11ac\_VHT80**

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5210	42	82.24	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5290	58	81.61	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5530	106	82.09	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac\_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5775	155	82.19	N/A	Pass

**Note :**

1. In order to simplify the report, attached plots were only the most wide channel.
2. DFS test channels should be defined. So, We performed the OBW test to prove that no part of the fundamental emissions of any channels belong to UNII1 and UNII3 band for DFS.

**TEST Plot for Ant.1\_802.11ac\_VHT80**



Note : In order to simplify the report, attached plots were only the most wide channel.

**Conducted 6 dB Bandwidth**
 **TEST RESULTS for Ant.0\_802.11a/n\_HT20/ac\_VHT20**
**Conducted 6 dB Bandwidth Measurements for 802.11a**

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	15.54	0.5	Pass
5785	157	15.49	0.5	Pass
5825	165	15.53	0.5	Pass

**Conducted 6 dB Bandwidth Measurements for 802.11n\_HT20**

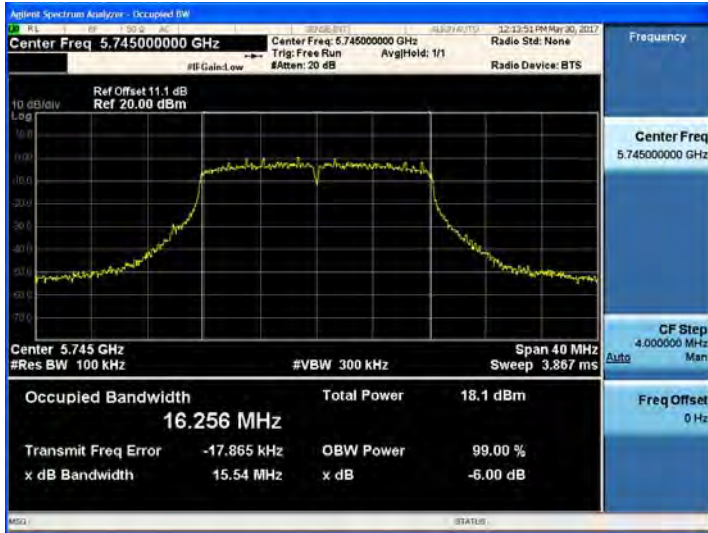
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	14.27	0.5	Pass
5785	157	14.43	0.5	Pass
5825	165	15.41	0.5	Pass

**Conducted 6 dB Bandwidth Measurements for 802.11ac\_VHT20**

802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	15.10	0.5	Pass
5785	157	15.44	0.5	Pass
5825	165	15.07	0.5	Pass

**TEST PlotS for 802.11a/n\_HT20/ac\_VHT20**

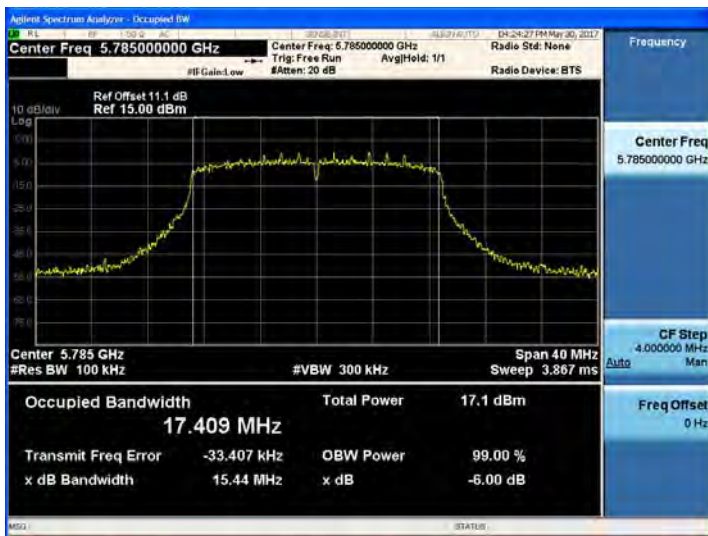
**802.11a UNII 3 BAND 6dB Bandwidth (CH.149)**



**802.11n\_HT20 UNII 3 BAND 6dB Bandwidth(CH.165)**



**802.11ac\_VHT20 UNII 3 BAND 6dB Bandwidth(CH.157)**



Note : In order to simplify the report, attached plots were only the most wide channel.

■ TEST RESULTS for Ant.1\_802.11a/n\_HT20/ac\_VHT20

Conducted 6 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	15.13	0.5	Pass
5785	157	15.34	0.5	Pass
5825	165	15.82	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n\_HT20

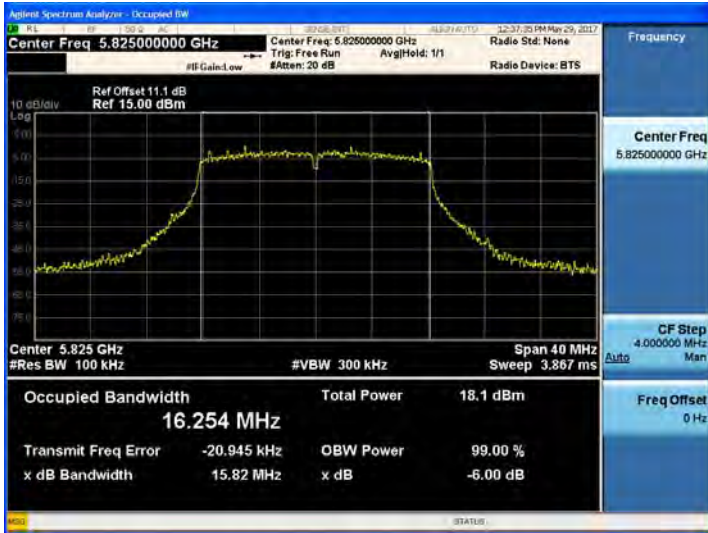
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	15.45	0.5	Pass
5785	157	15.44	0.5	Pass
5825	165	15.46	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11ac\_VHT20

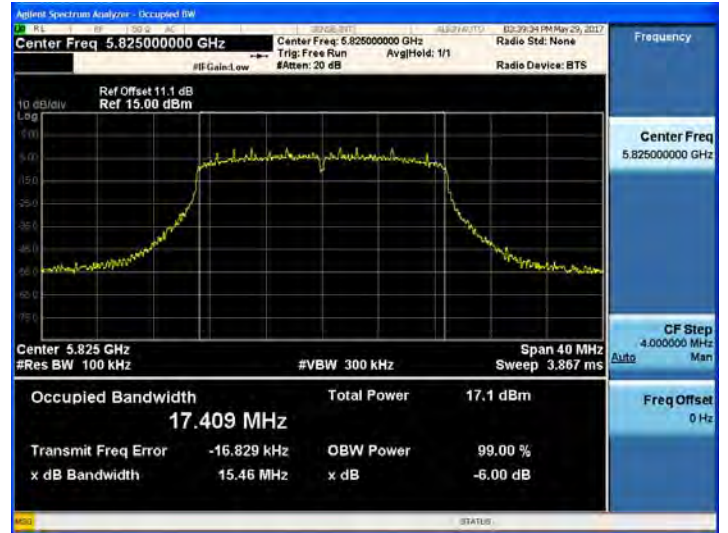
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	15.17	0.5	Pass
5785	157	15.44	0.5	Pass
5825	165	15.47	0.5	Pass

TEST PlotS for Ant.1\_802.11a/n\_HT20/ac\_VHT20

802.11a UNII 3 BAND 6dB Bandwidth (CH.165)



802.11n\_HT20 UNII 3 BAND 6dB Bandwidth(CH.165)



802.11ac\_VHT20 UNII 3 BAND 6dB Bandwidth(CH.165)



Note : In order to simplify the report, attached plots were only the most wide channel.

**TEST RESULTS for Ant.0\_802.11n\_HT40/ac\_VHT40**

Conducted 6 dB Bandwidth Measurements for 802.11n\_HT40

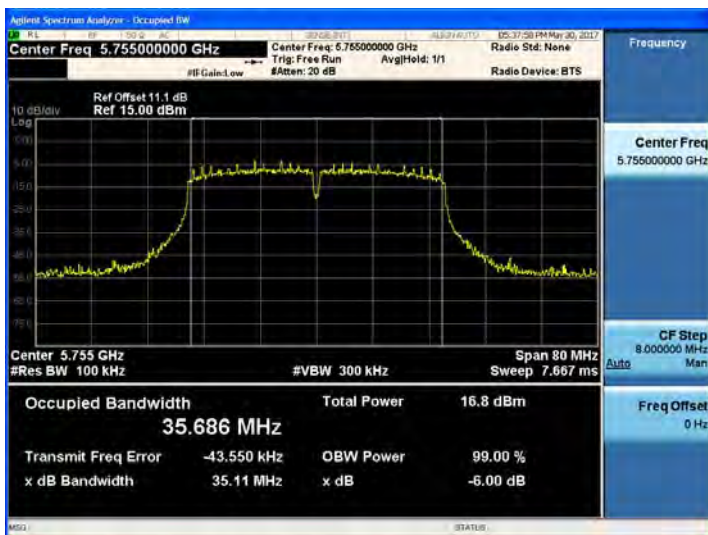
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.11	0.5	Pass
5795	159	35.03	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11ac\_VHT40

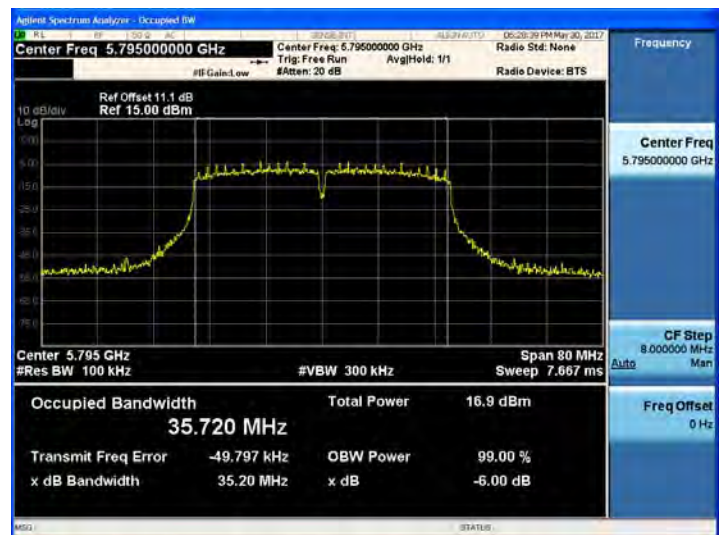
802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.19	0.5	Pass
5795	159	35.20	0.5	Pass

**TEST Plots for Ant.0\_802.11n\_HT40/ac\_VHT40**

802.11n\_40 MHz UNII 3 BAND 6dB Bandwidth (CH.151)



802.11ac\_VHT40 UNII 3 BAND 6dB Bandwidth(CH.159)



■ TEST RESULTS for Ant.1\_802.11n\_HT40/ac\_VHT40

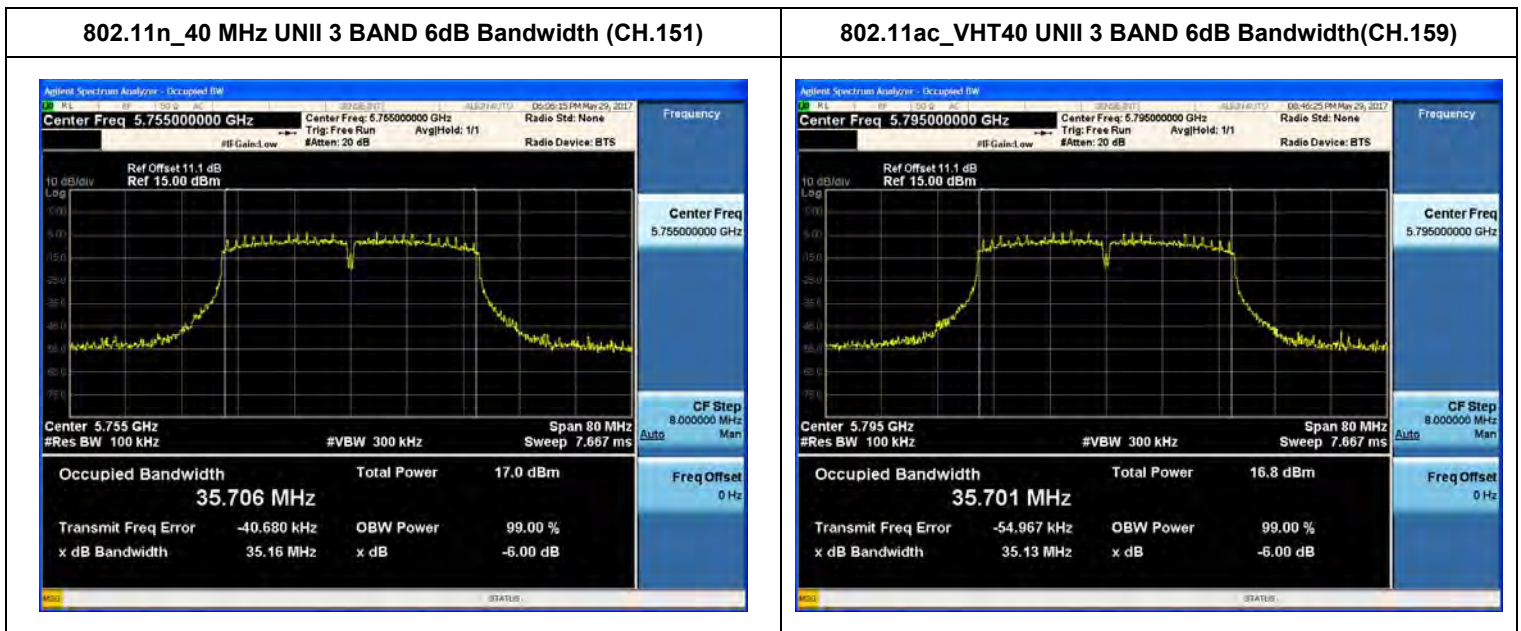
Conducted 6 dB Bandwidth Measurements for 802.11n\_HT40

802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.16	0.5	Pass
5795	159	35.13	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11ac\_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.12	0.5	Pass
5795	159	35.13	0.5	Pass

■ TEST Plots for Ant.1\_802.11n\_HT40/ac\_VHT40

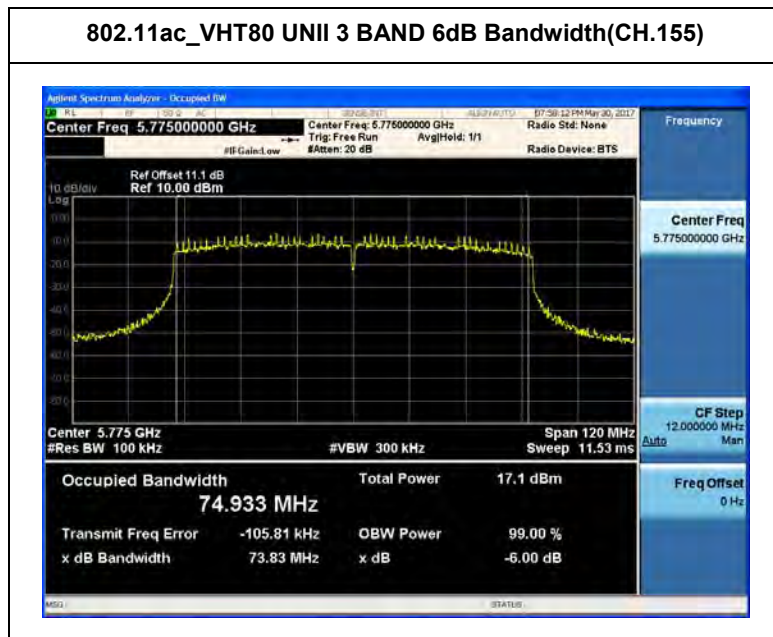


■ **TEST RESULTS Ant.0\_for 802.11ac\_VHT80**

Conducted 6 dB Bandwidth Measurements for 802.11ac\_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5775	155	73.83	0.5	Pass

■ **TEST Plots for Ant.0\_802.11ac\_VHT80**



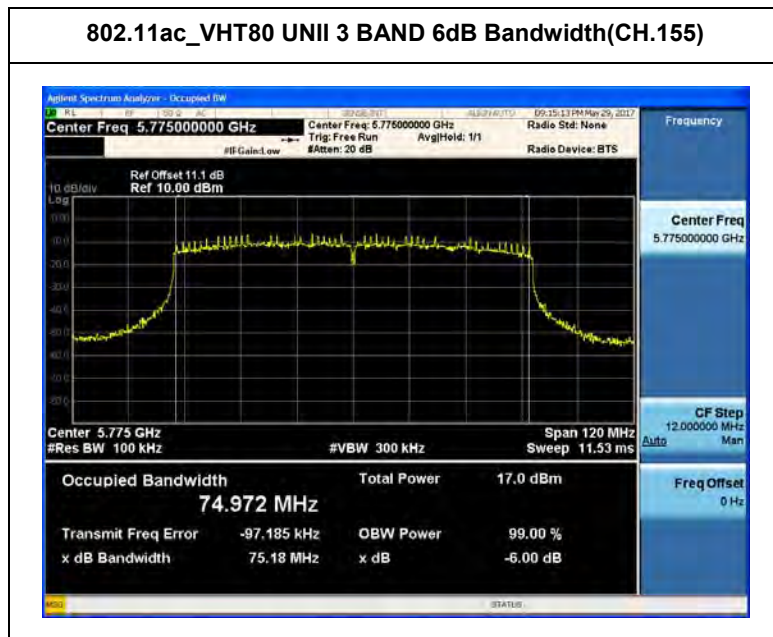
Note : In order to simplify the report, attached plots were only the most wide channel.

■ **TEST RESULTS Ant.1\_for 802.11ac\_VHT80**

Conducted 6 dB Bandwidth Measurements for 802.11ac\_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5775	155	75.18	0.5	Pass

■ **TEST Plots for Ant.1\_802.11ac\_VHT80**



Note : In order to simplify the report, attached plots were only the most wide channel.

### 9.3 OUTPUT POWER MEASUREMENT

#### Test Requirements and limit, §15.407(a)(1)

A transmitter antenna terminal of EUT is connected to the input of a Power meter or Spectrum Analyzer .Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies.

▣ **Limit**

Band	Mode	Limit (dBm)
UNII 1	802.11a,n,ac	23.98
UNII 2A	802.11a,n,ac	23.98
UNII 2C	802.11a,n,ac	23.98
UNII 3	802.11a,n,ac	30.00

Maximum Conducted Output Power:

Operating Mode	Band	Mode	Operating Ant.	Ant. Gain (dBi)	Limit (dBm)
SISO	UNII 1	802.11a/n/ac	Ant 0	-0.51	23.98
			Ant 1	-2.61	23.98
	UNII 2A		Ant 0	-0.81	23.98
			Ant 1	-2.85	23.98
	UNII 2C		Ant 0	-2.49	23.98
			Ant 1	-2.53	23.98
	UNII 3		Ant 0	-1.93	30.00
			Ant 1	-2.26	30.00
MIMO(CDD)	UNII 1	802.11a/n/ac	Ant 0 & 1	1.51	23.98
	UNII 2A			1.24	23.98
	UNII 2C			0.50	23.98
	UNII 3			0.92	30.00

Note : 1. If all antenna gains are not equal,

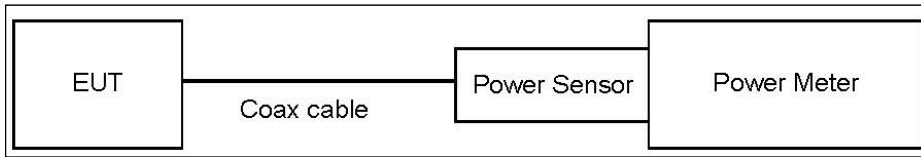
$$\text{Directional gain} = 10 \cdot \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N] \text{ dBi (CDD, 802.11a/n/ac)}$$

$$\text{Directional gain} = 10 \cdot \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N] \text{ dBi (SDM, 802.11n/ac)}$$

(according to KDB662911 D01 v02r01)

2. Limit is calculated by antenna gain.

3. The limits of maximum conducted power were applied the antenna gain. Therefore, if conducted power is pass, e.i.r.p. is also pass. So, we attached only conducted power table.

**■ TEST CONFIGURATION(20 MHz BW)****■ TEST PROCEDURE(20 MHz BW)**

- Average Power (Procedure E.3.a in KDB 789033 D02 v01r04).
  1. Measure the duty cycle.
  2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
  3. Add  $10 \log(1/x)$ , where  $x$  is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

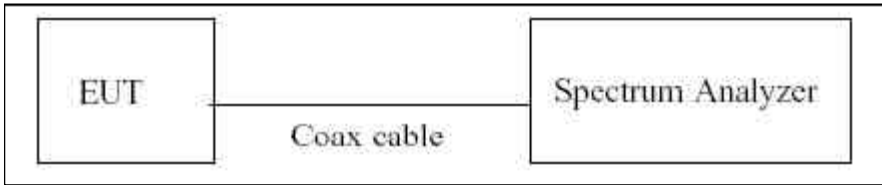
Note :

Actual value of loss for the attenuator and cable combination is below table.

Band	Loss(dB)
UNII 1, 2A, 2C, 3	11.1

(Actual value of loss for the attenuator and cable combination)

■ **TEST CONFIGURATION(40 MHz BW & 80 MHz BW)**



■ **TEST PROCEDURE(40 MHz BW & 80 MHz BW)**

▪ Average Power

The transmitter output is connected to the Spectrum Analyzer. We use the spectrum analyzer's integrated band power measurement function. We tested according to Method SA-2 in KDB 789033 D02 v01r04.

The Spectrum Analyzer is set to

1. Measure the duty cycle.
2. Set span to encompass the 26 dB EBW of the signal.
3. RBW = 1 MHz.
4. VBW ≥ 3 MHz.
5. Number of points in sweep ≥ 2\*span/RBW.
6. Sweep time = auto.
7. Detector = RMS.
8. Do not use sweep triggering. Allow the sweep to "free run".
9. Trace average at least 100 traces in power averaging(RMS) mode
10. Integrated bandwidth = OBW
11. Add  $10\log(1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

■ **Sample Calculation (Conducted)**

Output Power = Reading Value + ATT loss + Cable loss(1 ea) + Duty Cycle Factor

■ **Sample Calculation (EIRP)**

Output Power = Reading Value + ATT loss + Cable loss(1 ea) + Duty Cycle Factor + Ant gain

Note: 1. Spectrum reading values are not plot data. The power results in plot is already including the actual values of loss for the attenuator and cable combination.

2. Spectrum offset = Attenuator loss + Cable loss

3. Actual value of loss for the attenuator and cable combination is below table.

Band	Loss(dB)
UNII 1, 2A, 2C, 3	11.1

(Actual value of loss for the attenuator and cable combination)

Ant.0

802.11a (UNII 1)

■ TEST RESULTS

Conducted Output Power Measurements (802.11a Mode: 5180~5240)

802.11a(20MHz) Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5180	36	6	11.37	0.23	11.60	23.98
		9	11.22	0.34	11.56	23.98
		12	11.17	0.44	11.61	23.98
		18	11.17	0.64	11.81	23.98
		24	11.04	0.83	11.86	23.98
		36	10.66	1.17	11.83	23.98
		48	10.39	1.47	11.86	23.98
		54	10.19	1.64	11.83	23.98
5200	40	6	11.54	0.23	11.77	23.98
		9	11.44	0.34	11.77	23.98
		12	11.32	0.44	11.76	23.98
		18	11.26	0.64	11.90	23.98
		24	11.23	0.83	12.05	23.98
		36	10.79	1.17	11.96	23.98
		48	10.49	1.47	11.96	23.98
		54	10.31	1.64	11.94	23.98
5240	48	6	11.49	0.23	11.72	23.98
		9	11.37	0.34	11.71	23.98
		12	11.26	0.44	11.70	23.98
		18	11.27	0.64	11.91	23.98
		24	11.11	0.83	11.93	23.98
		36	10.76	1.17	11.92	23.98
		48	10.56	1.47	12.03	23.98
		54	10.41	1.64	12.05	23.98

**Ant.1**

**802.11a (UNII 1)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11a Mode: 5180~5240)**

802.11a(20MHz) Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5180	36	6	11.56	0.22	11.78	23.98
		9	11.43	0.32	11.75	23.98
		12	11.36	0.42	11.78	23.98
		18	11.34	0.61	11.95	23.98
		24	11.20	0.80	12.00	23.98
		36	10.80	1.11	11.91	23.98
		48	10.59	1.40	11.99	23.98
		54	10.40	1.54	11.94	23.98
5200	40	6	11.46	0.22	11.68	23.98
		9	11.31	0.32	11.63	23.98
		12	11.25	0.42	11.68	23.98
		18	11.21	0.61	11.81	23.98
		24	11.09	0.80	11.89	23.98
		36	10.70	1.11	11.81	23.98
		48	10.45	1.40	11.85	23.98
		54	10.20	1.54	11.74	23.98
5240	48	6	11.07	0.22	11.30	23.98
		9	10.86	0.32	11.18	23.98
		12	10.81	0.42	11.23	23.98
		18	10.80	0.61	11.41	23.98
		24	10.72	0.80	11.52	23.98
		36	10.27	1.11	11.38	23.98
		48	9.99	1.40	11.38	23.98
		54	9.85	1.54	11.39	23.98

■ TEST RESULTS\_Sum Data of Ant.0 and Ant.1 (UNII 1)

Conducted Output Power Measurements (802.11a Mode: 5180~5240)

802.11a Mode		Rate (Mbps)	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5180	36	6	14.70	23.98
		9	14.67	23.98
		12	14.71	23.98
		18	14.89	23.98
		24	14.94	23.98
		36	14.88	23.98
		48	14.94	23.98
		54	14.90	23.98
5200	40	6	14.74	23.98
		9	14.71	23.98
		12	14.73	23.98
		18	14.87	23.98
		24	14.98	23.98
		36	14.90	23.98
		48	14.92	23.98
		54	14.85	23.98
5240	48	6	14.52	23.98
		9	14.46	23.98
		12	14.48	23.98
		18	14.67	23.98
		24	14.74	23.98
		36	14.66	23.98
		48	14.72	23.98
		54	14.74	23.98

Ant.0

802.11a (UNII 2A)

■ TEST RESULTS

Conducted Output Power Measurements (802.11a Mode: 5260~5320)

802.11a Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5260	52	6	11.57	0.23	11.80	23.98
		9	11.42	0.34	11.75	23.98
		12	11.37	0.44	11.82	23.98
		18	11.37	0.64	12.01	23.98
		24	11.18	0.83	12.01	23.98
		36	10.81	1.17	11.97	23.98
		48	10.50	1.47	11.96	23.98
		54	10.36	1.64	12.00	23.98
5300	60	6	11.34	0.23	11.57	23.98
		9	11.23	0.34	11.57	23.98
		12	11.08	0.44	11.52	23.98
		18	11.16	0.64	11.80	23.98
		24	10.93	0.83	11.76	23.98
		36	10.57	1.17	11.74	23.98
		48	10.32	1.47	11.78	23.98
		54	10.10	1.64	11.74	23.98
5320	64	6	10.76	0.23	10.99	23.98
		9	10.65	0.34	10.98	23.98
		12	10.53	0.44	10.97	23.98
		18	10.49	0.64	11.13	23.98
		24	10.40	0.83	11.23	23.98
		36	10.02	1.17	11.18	23.98
		48	9.78	1.47	11.24	23.98
		54	9.62	1.64	11.25	23.98

**Ant.1**

**802.11a (UNII 2A)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11a Mode: 5260~5320)**

802.11a Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5260	52	6	11.34	0.22	11.56	23.98
		9	11.24	0.32	11.56	23.98
		12	11.17	0.42	11.59	23.98
		18	11.15	0.61	11.76	23.98
		24	10.98	0.80	11.78	23.98
		36	10.63	1.11	11.74	23.98
		48	10.38	1.40	11.78	23.98
		54	10.15	1.54	11.69	23.98
5300	60	6	11.24	0.22	11.47	23.98
		9	11.12	0.32	11.44	23.98
		12	10.95	0.42	11.37	23.98
		18	11.01	0.61	11.61	23.98
		24	10.86	0.80	11.65	23.98
		36	10.45	1.11	11.56	23.98
		48	10.24	1.40	11.63	23.98
		54	10.13	1.54	11.67	23.98
5320	64	6	11.12	0.22	11.35	23.98
		9	11.03	0.32	11.35	23.98
		12	10.88	0.42	11.30	23.98
		18	10.89	0.61	11.50	23.98
		24	10.74	0.80	11.53	23.98
		36	10.37	1.11	11.48	23.98
		48	10.12	1.40	11.52	23.98
		54	9.95	1.54	11.49	23.98

■ TEST RESULTS\_Sum Data of Ant.0 and Ant.1 (UNII 2A)

Conducted Output Power Measurements (802.11a Mode: 5260~5320)

802.11a Mode		Rate (Mbps)	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5260	52	6	14.69	23.98
		9	14.67	23.98
		12	14.72	23.98
		18	14.90	23.98
		24	14.91	23.98
		36	14.87	23.98
		48	14.88	23.98
		54	14.86	23.98
5300	60	6	14.53	23.98
		9	14.52	23.98
		12	14.46	23.98
		18	14.72	23.98
		24	14.72	23.98
		36	14.66	23.98
		48	14.72	23.98
		54	14.72	23.98
5320	64	6	14.18	23.98
		9	14.18	23.98
		12	14.15	23.98
		18	14.33	23.98
		24	14.39	23.98
		36	14.34	23.98
		48	14.39	23.98
		54	14.38	23.98

Ant.0

802.11a (UNII 2C)

■ TEST RESULTS

Conducted Output Power Measurements (802.11a Mode: 5500~5700)

802.11a Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5500	100	6	11.39	0.23	11.62	23.98
		9	11.26	0.34	11.60	23.98
		12	11.18	0.44	11.63	23.98
		18	11.19	0.64	11.82	23.98
		24	11.02	0.83	11.85	23.98
		36	10.65	1.17	11.82	23.98
		48	10.39	1.47	11.86	23.98
		54	10.24	1.64	11.88	23.98
5580	116	6	11.87	0.23	12.10	23.98
		9	11.74	0.34	12.08	23.98
		12	11.67	0.44	12.12	23.98
		18	11.60	0.64	12.23	23.98
		24	11.48	0.83	12.31	23.98
		36	11.10	1.17	12.27	23.98
		48	10.86	1.47	12.33	23.98
		54	10.73	1.64	12.36	23.98
5700	140	6	12.21	0.23	12.44	23.98
		9	12.04	0.34	12.38	23.98
		12	12.01	0.44	12.45	23.98
		18	11.82	0.64	12.46	23.98
		24	11.66	0.83	12.49	23.98
		36	11.30	1.17	12.47	23.98
		48	10.97	1.47	12.44	23.98
		54	10.81	1.64	12.45	23.98

**Ant.1**

**802.11a (UNII 2C)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11a Mode: 5500~5700)**

802.11a Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5500	100	6	10.91	0.22	11.13	23.98
		9	10.76	0.32	11.07	23.98
		12	10.69	0.42	11.11	23.98
		18	10.59	0.61	11.20	23.98
		24	10.48	0.80	11.28	23.98
		36	10.11	1.11	11.22	23.98
		48	9.90	1.40	11.30	23.98
		54	9.75	1.54	11.29	23.98
5580	116	6	11.90	0.22	12.13	23.98
		9	11.73	0.32	12.05	23.98
		12	11.67	0.42	12.09	23.98
		18	11.65	0.61	12.26	23.98
		24	11.48	0.80	12.28	23.98
		36	11.14	1.11	12.24	23.98
		48	10.91	1.40	12.31	23.98
		54	10.70	1.54	12.25	23.98
5700	140	6	11.75	0.22	11.97	23.98
		9	11.56	0.32	11.88	23.98
		12	11.48	0.42	11.90	23.98
		18	11.50	0.61	12.11	23.98
		24	11.40	0.80	12.20	23.98
		36	10.98	1.11	12.09	23.98
		48	10.74	1.40	12.13	23.98
		54	10.54	1.54	12.08	23.98

■ TEST RESULTS\_Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Output Power Measurements (802.11a Mode: 5500~5700)

802.11a Mode		Rate (Mbps)	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5500	100	6	14.39	23.98
		9	14.35	23.98
		12	14.38	23.98
		18	14.53	23.98
		24	14.58	23.98
		36	14.54	23.98
		48	14.59	23.98
		54	14.60	23.98
5580	116	6	15.13	23.98
		9	15.08	23.98
		12	15.12	23.98
		18	15.26	23.98
		24	15.31	23.98
		36	15.27	23.98
		48	15.33	23.98
		54	15.32	23.98
5700	140	6	15.22	23.98
		9	15.14	23.98
		12	15.19	23.98
		18	15.30	23.98
		24	15.36	23.98
		36	15.29	23.98
		48	15.30	23.98
		54	15.28	23.98

Ant.0

802.11a (UNII 3)

■ TEST RESULTS

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a (20MHz) Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6	11.32	0.23	11.55	30
		9	11.20	0.34	11.54	30
		12	11.15	0.44	11.59	30
		18	11.14	0.64	11.77	30
		24	10.95	0.83	11.78	30
		36	10.56	1.17	11.73	30
		48	10.36	1.47	11.83	30
		54	10.18	1.64	11.82	30
5785	157	6	11.40	0.23	11.63	30
		9	11.32	0.34	11.66	30
		12	11.22	0.44	11.66	30
		18	11.22	0.64	11.86	30
		24	11.03	0.83	11.85	30
		36	10.67	1.17	11.84	30
		48	10.43	1.47	11.89	30
		54	10.26	1.64	11.89	30
5825	165	6	11.72	0.23	11.95	30
		9	11.56	0.34	11.90	30
		12	11.50	0.44	11.95	30
		18	11.52	0.64	12.16	30
		24	11.27	0.83	12.10	30
		36	10.94	1.17	12.10	30
		48	10.68	1.47	12.15	30
		54	10.60	1.64	12.23	30

**Ant.1**

**802.11a (UNII 3)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11a Mode: 5745~5825)**

802.11a (20MHz) Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6	11.51	0.22	11.73	30
		9	11.44	0.32	11.76	30
		12	11.31	0.42	11.73	30
		18	11.34	0.61	11.95	30
		24	11.20	0.80	12.00	30
		36	10.79	1.11	11.89	30
		48	10.53	1.40	11.93	30
		54	10.38	1.54	11.93	30
5785	157	6	11.55	0.22	11.78	30
		9	11.42	0.32	11.74	30
		12	11.33	0.42	11.75	30
		18	11.35	0.61	11.96	30
		24	11.21	0.80	12.01	30
		36	10.82	1.11	11.93	30
		48	10.56	1.40	11.96	30
		54	10.44	1.54	11.98	30
5825	165	6	11.31	0.22	11.54	30
		9	11.23	0.32	11.55	30
		12	11.14	0.42	11.56	30
		18	11.08	0.61	11.69	30
		24	10.94	0.80	11.74	30
		36	10.59	1.11	11.70	30
		48	10.33	1.40	11.73	30
		54	10.19	1.54	11.74	30

■ TEST RESULTS\_Sum Data of Ant.0 and Ant.1 (UNII 3)

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5745	149	6	14.65	30
		9	14.66	30
		12	14.67	30
		18	14.87	30
		24	14.90	30
		36	14.82	30
		48	14.89	30
		54	14.89	30
5785	157	6	14.72	30
		9	14.71	30
		12	14.72	30
		18	14.92	30
		24	14.94	30
		36	14.90	30
		48	14.94	30
		54	14.95	30
5825	165	6	14.76	30
		9	14.74	30
		12	14.77	30
		18	14.94	30
		24	14.93	30
		36	14.91	30
		48	14.95	30
		54	15.00	30

Ant.0

802.11n\_HT20 (UNII 1)

■ TEST RESULTS

Conducted Output Power Measurements (802.11n\_HT20 Mode: 5180~5240)

802.11n_HT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5180	36	0	10.13	0.24	10.37	23.98
		1	9.85	0.46	10.30	23.98
		2	9.93	0.67	10.60	23.98
		3	10.02	1.13	11.16	23.98
		4	9.63	1.18	10.82	23.98
		5	9.36	1.48	10.84	23.98
		6	9.34	1.62	10.96	23.98
		7	9.16	1.73	10.89	23.98
5200	40	0	10.20	0.24	10.44	23.98
		1	9.80	0.46	10.26	23.98
		2	9.89	0.67	10.55	23.98
		3	9.91	1.13	11.04	23.98
		4	9.65	1.18	10.83	23.98
		5	9.38	1.48	10.86	23.98
		6	9.30	1.62	10.92	23.98
		7	9.19	1.73	10.91	23.98
5240	48	0	10.14	0.24	10.38	23.98
		1	9.83	0.46	10.29	23.98
		2	9.90	0.67	10.57	23.98
		3	10.04	1.13	11.17	23.98
		4	9.68	1.18	10.86	23.98
		5	9.45	1.48	10.93	23.98
		6	9.29	1.62	10.91	23.98
		7	9.15	1.73	10.87	23.98

**Ant.1**

**802.11n\_HT20 (UNII 1)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11n\_HT20 Mode: 5180~5240)**

802.11n_HT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5180	36	0	10.25	0.26	10.51	23.98
		1	9.93	0.47	10.40	23.98
		2	9.95	0.70	10.64	23.98
		3	10.10	0.87	10.96	23.98
		4	9.75	1.19	10.94	23.98
		5	9.44	1.49	10.93	23.98
		6	9.35	1.62	10.98	23.98
		7	9.26	1.73	10.99	23.98
5200	40	0	10.12	0.26	10.38	23.98
		1	9.82	0.47	10.29	23.98
		2	9.87	0.70	10.57	23.98
		3	10.00	0.87	10.87	23.98
		4	9.64	1.19	10.83	23.98
		5	9.38	1.49	10.87	23.98
		6	9.26	1.62	10.88	23.98
		7	9.14	1.73	10.86	23.98
5240	48	0	9.72	0.26	9.98	23.98
		1	9.39	0.47	9.85	23.98
		2	9.39	0.70	10.09	23.98
		3	9.61	0.87	10.47	23.98
		4	9.18	1.19	10.37	23.98
		5	8.92	1.49	10.41	23.98
		6	8.87	1.62	10.49	23.98
		7	8.62	1.73	10.34	23.98

■ TEST RESULTS\_Sum Data of Ant.0 and Ant.1 (UNII 1)

Conducted Output Power Measurements (802.11n\_HT20 Mode: 5180~5240)

802.11n_HT20 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5180	36	0	13.45	23.98
		1	13.36	23.98
		2	13.63	23.98
		3	14.07	23.98
		4	13.89	23.98
		5	13.90	23.98
		6	13.98	23.98
		7	13.95	23.98
5200	40	0	13.42	23.98
		1	13.29	23.98
		2	13.57	23.98
		3	13.97	23.98
		4	13.84	23.98
		5	13.88	23.98
		6	13.91	23.98
		7	13.90	23.98
5240	48	0	13.19	23.98
		1	13.08	23.98
		2	13.34	23.98
		3	13.84	23.98
		4	13.63	23.98
		5	13.68	23.98
		6	13.71	23.98
		7	13.62	23.98

Ant.0

802.11n\_HT20 (UNII 2A)

■ TEST RESULTS

Conducted Output Power Measurements (802.11n\_HT20 Mode: 5260~5320)

802.11a Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5260	52	6	10.15	0.24	10.39	23.98
		9	9.88	0.46	10.34	23.98
		12	9.79	0.67	10.45	23.98
		18	10.05	1.13	11.18	23.98
		24	9.72	1.18	10.90	23.98
		36	9.39	1.48	10.87	23.98
		48	9.36	1.62	10.98	23.98
		54	9.23	1.73	10.95	23.98
5300	60	6	10.07	0.24	10.31	23.98
		9	9.75	0.46	10.21	23.98
		12	9.87	0.67	10.54	23.98
		18	9.93	1.13	11.06	23.98
		24	9.62	1.18	10.80	23.98
		36	9.30	1.48	10.78	23.98
		48	9.26	1.62	10.88	23.98
		54	9.11	1.73	10.83	23.98
5320	64	6	9.55	0.24	9.79	23.98
		9	9.27	0.46	9.73	23.98
		12	9.28	0.67	9.94	23.98
		18	9.40	1.13	10.53	23.98
		24	9.10	1.18	10.28	23.98
		36	8.81	1.48	10.29	23.98
		48	8.68	1.62	10.30	23.98
		54	8.53	1.73	10.25	23.98

**Ant.1**

**802.11n\_HT20 (UNII 2A)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11n\_HT20 Mode: 5260~5320)**

802.11a Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5260	52	6	10.02	0.26	10.28	23.98
		9	9.72	0.47	10.19	23.98
		12	9.78	0.70	10.48	23.98
		18	9.93	0.87	10.80	23.98
		24	9.53	1.19	10.73	23.98
		36	9.16	1.49	10.65	23.98
		48	9.12	1.62	10.74	23.98
		54	9.01	1.73	10.73	23.98
5300	60	6	9.83	0.26	10.09	23.98
		9	9.50	0.47	9.97	23.98
		12	9.58	0.70	10.27	23.98
		18	9.69	0.87	10.56	23.98
		24	9.35	1.19	10.54	23.98
		36	9.05	1.49	10.54	23.98
		48	9.02	1.62	10.64	23.98
		54	8.80	1.73	10.53	23.98
5320	64	6	9.92	0.26	10.18	23.98
		9	9.59	0.47	10.06	23.98
		12	9.51	0.70	10.21	23.98
		18	9.65	0.87	10.52	23.98
		24	9.30	1.19	10.49	23.98
		36	8.96	1.49	10.45	23.98
		48	8.91	1.62	10.53	23.98
		54	8.76	1.73	10.48	23.98

■ TEST RESULTS\_Sum Data of Ant.0 and Ant.1 (UNII 2A)

Conducted Output Power Measurements 802.11n\_HT20 Mode: 5260~5320)

802.11a Mode		Rate (Mbps)	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5260	52	6	13.35	23.98
		9	13.28	23.98
		12	13.48	23.98
		18	14.00	23.98
		24	13.83	23.98
		36	13.77	23.98
		48	13.87	23.98
		54	13.85	23.98
5300	60	6	13.21	23.98
		9	13.10	23.98
		12	13.42	23.98
		18	13.82	23.98
		24	13.68	23.98
		36	13.67	23.98
		48	13.77	23.98
		54	13.69	23.98
5320	64	6	13.00	23.98
		9	12.91	23.98
		12	13.09	23.98
		18	13.54	23.98
		24	13.40	23.98
		36	13.38	23.98
		48	13.43	23.98
		54	13.38	23.98

**Ant.0**

**802.11n\_HT20 (UNII 2C)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11n\_HT20 Mode: 5500~5700)**

802.11a Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5500	100	6	10.00	0.24	10.24	23.98
		9	9.72	0.46	10.18	23.98
		12	9.86	0.67	10.53	23.98
		18	9.91	1.13	11.04	23.98
		24	9.56	1.18	10.74	23.98
		36	9.32	1.48	10.81	23.98
		48	9.18	1.62	10.80	23.98
		54	9.03	1.73	10.75	23.98
5580	116	6	10.65	0.24	10.89	23.98
		9	10.26	0.46	10.72	23.98
		12	10.34	0.67	11.00	23.98
		18	10.34	1.13	11.47	23.98
		24	10.05	1.18	11.24	23.98
		36	9.80	1.48	11.28	23.98
		48	9.72	1.62	11.34	23.98
		54	9.63	1.73	11.36	23.98
5700	140	6	10.98	0.24	11.22	23.98
		9	10.65	0.46	11.11	23.98
		12	10.60	0.67	11.27	23.98
		18	10.35	1.13	11.48	23.98
		24	10.26	1.18	11.44	23.98
		36	9.95	1.48	11.43	23.98
		48	9.79	1.62	11.41	23.98
		54	9.67	1.73	11.40	23.98

**Ant.1**

**802.11n\_HT20 (UNII 2C)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11n\_HT20 Mode: 5500~5700)**

802.11a Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5500	100	6	9.60	0.26	9.86	23.98
		9	9.36	0.47	9.83	23.98
		12	9.33	0.70	10.03	23.98
		18	9.56	0.87	10.43	23.98
		24	9.19	1.19	10.38	23.98
		36	8.92	1.49	10.41	23.98
		48	8.81	1.62	10.43	23.98
		54	8.60	1.73	10.33	23.98
5580	116	6	10.62	0.26	10.87	23.98
		9	10.29	0.47	10.76	23.98
		12	10.22	0.70	10.92	23.98
		18	10.44	0.87	11.31	23.98
		24	10.12	1.19	11.31	23.98
		36	9.81	1.49	11.30	23.98
		48	9.75	1.62	11.37	23.98
		54	9.60	1.73	11.32	23.98
5700	140	6	10.49	0.26	10.75	23.98
		9	10.17	0.47	10.63	23.98
		12	10.13	0.70	10.83	23.98
		18	10.30	0.87	11.16	23.98
		24	10.00	1.19	11.19	23.98
		36	9.67	1.49	11.16	23.98
		48	9.64	1.62	11.26	23.98
		54	9.48	1.73	11.21	23.98

■ TEST RESULTS\_Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Output Power Measurements (802.11n\_HT20 Mode: 5500~5700)

802.11a Mode		Rate (Mbps)	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5500	100	6	13.06	23.98
		9	13.02	23.98
		12	13.29	23.98
		18	13.75	23.98
		24	13.57	23.98
		36	13.62	23.98
		48	13.63	23.98
		54	13.55	23.98
5580	116	6	13.89	23.98
		9	13.75	23.98
		12	13.97	23.98
		18	14.40	23.98
		24	14.29	23.98
		36	14.30	23.98
		48	14.37	23.98
		54	14.35	23.98
5700	140	6	14.00	23.98
		9	13.88	23.98
		12	14.06	23.98
		18	14.33	23.98
		24	14.33	23.98
		36	14.31	23.98
		48	14.35	23.98
		54	14.32	23.98

Ant.0

802.11n\_HT20 (UNII 3)

■ TEST RESULTS

Conducted Output Power Measurements (802.11n\_HT20 Mode: 5745~5825)

802.11n_HT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	0	10.04	0.24	10.28	30
		1	9.75	0.46	10.21	30
		2	9.72	0.67	10.39	30
		3	9.88	1.13	11.01	30
		4	9.56	1.18	10.74	30
		5	9.25	1.48	10.74	30
		6	9.09	1.62	10.71	30
		7	9.04	1.73	10.76	30
5785	157	0	10.04	0.24	10.28	30
		1	9.75	0.46	10.21	30
		2	9.84	0.67	10.51	30
		3	9.92	1.13	11.05	30
		4	9.60	1.18	10.79	30
		5	9.32	1.48	10.81	30
		6	9.20	1.62	10.83	30
		7	9.04	1.73	10.77	30
5825	165	0	10.49	0.24	10.73	30
		1	10.12	0.46	10.58	30
		2	10.08	0.67	10.75	30
		3	10.26	1.13	11.39	30
		4	9.95	1.18	11.13	30
		5	9.68	1.48	11.16	30
		6	9.64	1.62	11.26	30
		7	9.42	1.73	11.14	30

**Ant.1**

**802.11n\_HT20 (UNII 3)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11n\_HT20 Mode: 5745~5825)**

802.11n_HT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	0	10.34	0.26	10.60	30
		1	10.02	0.47	10.49	30
		2	10.08	0.70	10.77	30
		3	10.16	0.87	11.02	30
		4	9.83	1.19	11.02	30
		5	9.59	1.49	11.07	30
		6	9.45	1.62	11.07	30
		7	9.34	1.73	11.07	30
5785	157	0	10.33	0.26	10.58	30
		1	9.95	0.47	10.42	30
		2	10.04	0.70	10.74	30
		3	10.13	0.87	11.00	30
		4	9.82	1.19	11.01	30
		5	9.58	1.49	11.07	30
		6	9.43	1.62	11.05	30
		7	9.30	1.73	11.03	30
5825	165	0	10.17	0.26	10.43	30
		1	9.82	0.47	10.29	30
		2	9.96	0.70	10.66	30
		3	10.03	0.87	10.90	30
		4	9.66	1.19	10.85	30
		5	9.37	1.49	10.86	30
		6	9.28	1.62	10.90	30
		7	9.17	1.73	10.90	30

■ TEST RESULTS\_Sum Data of Ant.0 and Ant.1 (UNII 3)

Conducted Output Power Measurements (802.11n\_HT20 Mode: 5745~5825)

802.11n_HT20 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5745	149	0	13.45	30
		1	13.36	30
		2	13.59	30
		3	14.03	30
		4	13.89	30
		5	13.92	30
		6	13.90	30
		7	13.93	30
5785	157	0	13.44	30
		1	13.33	30
		2	13.64	30
		3	14.04	30
		4	13.91	30
		5	13.95	30
		6	13.95	30
		7	13.91	30
5825	165	0	13.59	30
		1	13.45	30
		2	13.72	30
		3	14.16	30
		4	14.00	30
		5	14.02	30
		6	14.09	30
		7	14.03	30

Ant.0

802.11ac\_VHT20 (UNII 1)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac\_VHT20 Mode: 5180~5240)

802.11ac_VHT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5180	36	0	10.14	0.23	10.38	23.98
		1	9.81	0.43	10.25	23.98
		2	9.91	0.62	10.53	23.98
		3	9.98	0.81	10.79	23.98
		4	9.65	1.13	10.78	23.98
		5	9.42	1.38	10.80	23.98
		6	9.36	1.58	10.94	23.98
		7	9.20	1.63	10.83	23.98
		8	8.94	1.83	10.77	23.98
5200	40	0	10.18	0.23	10.41	23.98
		1	9.85	0.43	10.28	23.98
		2	9.96	0.62	10.58	23.98
		3	9.98	0.81	10.78	23.98
		4	9.66	1.13	10.79	23.98
		5	9.33	1.38	10.71	23.98
		6	9.31	1.58	10.89	23.98
		7	9.11	1.63	10.73	23.98
		8	8.92	1.83	10.75	23.98
5240	48	0	10.24	0.23	10.47	23.98
		1	9.87	0.43	10.30	23.98
		2	9.90	0.62	10.52	23.98
		3	10.00	0.81	10.81	23.98
		4	9.70	1.13	10.83	23.98
		5	9.44	1.38	10.82	23.98
		6	9.35	1.58	10.93	23.98
		7	9.20	1.63	10.83	23.98
		8	8.90	1.83	10.73	23.98

**Ant.1**

**802.11ac\_VHT20 (UNII 1)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT20 Mode: 5180~5240)**

802.11ac_VHT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5180	36	0	10.24	0.24	10.48	23.98
		1	9.96	0.44	10.40	23.98
		2	9.92	0.62	10.54	23.98
		3	10.08	0.81	10.88	23.98
		4	9.79	1.16	10.95	23.98
		5	9.52	1.38	10.89	23.98
		6	9.46	1.52	10.98	23.98
		7	9.23	1.62	10.86	23.98
		8	9.03	1.84	10.87	23.98
5200	40	0	10.19	0.24	10.43	23.98
		1	9.88	0.44	10.32	23.98
		2	9.93	0.62	10.55	23.98
		3	10.02	0.81	10.82	23.98
		4	9.69	1.16	10.85	23.98
		5	9.47	1.38	10.85	23.98
		6	9.41	1.52	10.93	23.98
		7	9.15	1.62	10.77	23.98
		8	9.00	1.84	10.84	23.98
5240	48	0	9.80	0.24	10.04	23.98
		1	9.54	0.44	9.98	23.98
		2	9.50	0.62	10.11	23.98
		3	9.63	0.81	10.43	23.98
		4	9.33	1.16	10.49	23.98
		5	9.03	1.38	10.41	23.98
		6	8.95	1.52	10.47	23.98
		7	8.77	1.62	10.39	23.98
		8	8.53	1.84	10.37	23.98

■ TEST RESULTS\_Sum Data of Ant.0 and Ant.1 (UNII 1)

Conducted Output Power Measurements (802.11ac\_VHT20 Mode: 5180~5240)

802.11ac_VHT20 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5180	36	0	13.44	23.98
		1	13.34	23.98
		2	13.55	23.98
		3	13.85	23.98
		4	13.88	23.98
		5	13.86	23.98
		6	13.97	23.98
		7	13.86	23.98
		8	13.83	23.98
5200	40	0	13.43	23.98
		1	13.31	23.98
		2	13.58	23.98
		3	13.81	23.98
		4	13.83	23.98
		5	13.79	23.98
		6	13.92	23.98
		7	13.76	23.98
		8	13.81	23.98
5240	48	0	13.27	23.98
		1	13.15	23.98
		2	13.33	23.98
		3	13.63	23.98
		4	13.67	23.98
		5	13.63	23.98
		6	13.72	23.98
		7	13.63	23.98
		8	13.56	23.98

Ant.0

802.11ac\_VHT20 (UNII 2A)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac\_VHT20 Mode: 5260~5320)

802.11ac_VHT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5260	52	0	10.23	0.23	10.46	23.98
		1	9.89	0.43	10.33	23.98
		2	9.90	0.62	10.52	23.98
		3	10.03	0.81	10.84	23.98
		4	9.73	1.13	10.86	23.98
		5	9.44	1.38	10.82	23.98
		6	9.35	1.58	10.93	23.98
		7	9.25	1.63	10.88	23.98
		8	8.93	1.83	10.76	23.98
5300	60	0	10.07	0.23	10.30	23.98
		1	9.74	0.43	10.17	23.98
		2	9.73	0.62	10.35	23.98
		3	9.91	0.81	10.72	23.98
		4	9.59	1.13	10.72	23.98
		5	9.30	1.38	10.68	23.98
		6	9.27	1.58	10.86	23.98
		7	9.12	1.63	10.74	23.98
		8	8.91	1.83	10.73	23.98
5320	64	0	9.57	0.23	9.80	23.98
		1	9.27	0.43	9.70	23.98
		2	9.34	0.62	9.96	23.98
		3	9.43	0.81	10.24	23.98
		4	9.12	1.13	10.25	23.98
		5	8.92	1.38	10.30	23.98
		6	8.70	1.58	10.28	23.98
		7	8.59	1.63	10.22	23.98
		8	8.32	1.83	10.15	23.98

**Ant.1**

**802.11ac\_VHT20 (UNII 2A)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT20 Mode: 5260~5320)**

802.11ac_VHT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5260	52	0	10.11	0.24	10.35	23.98
		1	9.83	0.44	10.27	23.98
		2	9.82	0.62	10.44	23.98
		3	9.96	0.81	10.76	23.98
		4	9.64	1.16	10.80	23.98
		5	9.38	1.38	10.76	23.98
		6	9.25	1.52	10.77	23.98
		7	9.09	1.62	10.71	23.98
		8	8.93	1.84	10.77	23.98
5300	60	0	10.03	0.24	10.27	23.98
		1	9.71	0.44	10.15	23.98
		2	9.72	0.62	10.34	23.98
		3	9.87	0.81	10.67	23.98
		4	9.54	1.16	10.70	23.98
		5	9.28	1.38	10.66	23.98
		6	9.24	1.52	10.76	23.98
		7	9.00	1.62	10.62	23.98
		8	8.77	1.84	10.61	23.98
5320	64	0	9.87	0.24	10.11	23.98
		1	9.55	0.44	9.99	23.98
		2	9.59	0.62	10.21	23.98
		3	9.73	0.81	10.54	23.98
		4	9.43	1.16	10.59	23.98
		5	9.18	1.38	10.56	23.98
		6	9.07	1.52	10.59	23.98
		7	8.87	1.62	10.50	23.98
		8	8.66	1.84	10.50	23.98

■ TEST RESULTS\_Sum Data of Ant.0 and Ant.1 (UNII 2A)

Conducted Output Power Measurements (802.11ac\_VHT20 Mode: 5260~5320)

802.11ac_VHT20 Mode				
Frequency [MHz]	Channel No.	MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
5260	52	0	13.42	23.98
		1	13.31	23.98
		2	13.49	23.98
		3	13.81	23.98
		4	13.84	23.98
		5	13.80	23.98
		6	13.86	23.98
		7	13.81	23.98
		8	13.78	23.98
5300	60	0	13.30	23.98
		1	13.17	23.98
		2	13.36	23.98
		3	13.71	23.98
		4	13.72	23.98
		5	13.68	23.98
		6	13.82	23.98
		7	13.69	23.98
		8	13.68	23.98
5320	64	0	12.97	23.98
		1	12.86	23.98
		2	13.10	23.98
		3	13.40	23.98
		4	13.43	23.98
		5	13.44	23.98
		6	13.45	23.98
		7	13.37	23.98
		8	13.34	23.98

Ant.0

802.11ac\_VHT20 (UNII 2C)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac\_VHT20 Mode: 5500~5700)

802.11ac_VHT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5500	100	0	10.03	0.23	10.26	23.98
		1	9.75	0.43	10.18	23.98
		2	9.75	0.62	10.37	23.98
		3	9.89	0.81	10.69	23.98
		4	9.58	1.13	10.71	23.98
		5	9.32	1.38	10.70	23.98
		6	9.29	1.58	10.87	23.98
		7	9.06	1.63	10.68	23.98
		8	8.78	1.83	10.61	23.98
5580	116	0	10.56	0.23	10.79	23.98
		1	10.31	0.43	10.75	23.98
		2	10.23	0.62	10.85	23.98
		3	10.45	0.81	11.25	23.98
		4	10.18	1.13	11.31	23.98
		5	9.90	1.38	11.28	23.98
		6	9.83	1.58	11.41	23.98
		7	9.59	1.63	11.22	23.98
		8	9.40	1.83	11.23	23.98
5700	140	0	10.98	0.23	11.21	23.98
		1	10.68	0.43	11.12	23.98
		2	10.75	0.62	11.37	23.98
		3	10.63	0.81	11.44	23.98
		4	10.30	1.13	11.43	23.98
		5	9.98	1.38	11.36	23.98
		6	9.89	1.58	11.47	23.98
		7	9.82	1.63	11.45	23.98
		8	9.63	1.83	11.46	23.98

**Ant.1**

**802.11ac\_VHT20 (UNII 2C)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT20 Mode: 5500~5700)**

802.11ac_VHT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5500	100	0	9.55	0.24	9.79	23.98
		1	9.20	0.44	9.64	23.98
		2	9.31	0.62	9.93	23.98
		3	9.42	0.81	10.22	23.98
		4	9.09	1.16	10.26	23.98
		5	8.80	1.38	10.18	23.98
		6	8.75	1.52	10.27	23.98
		7	8.63	1.62	10.25	23.98
		8	8.39	1.84	10.23	23.98
5580	116	0	10.53	0.24	10.77	23.98
		1	10.27	0.44	10.71	23.98
		2	10.27	0.62	10.89	23.98
		3	10.42	0.81	11.23	23.98
		4	10.09	1.16	11.25	23.98
		5	9.82	1.38	11.20	23.98
		6	9.70	1.52	11.22	23.98
		7	9.62	1.62	11.24	23.98
		8	9.41	1.84	11.25	23.98
5700	140	0	10.48	0.24	10.72	23.98
		1	10.23	0.44	10.67	23.98
		2	10.23	0.62	10.85	23.98
		3	10.37	0.81	11.18	23.98
		4	10.03	1.16	11.19	23.98
		5	9.81	1.38	11.19	23.98
		6	9.72	1.52	11.24	23.98
		7	9.40	1.62	11.02	23.98
		8	9.14	1.84	10.99	23.98

■ TEST RESULTS\_Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Output Power Measurements (802.11ac\_VHT20 Mode: 5500~5700)

802.11ac_VHT20 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5500	100	0	13.04	23.98
		1	12.92	23.98
		2	13.16	23.98
		3	13.47	23.98
		4	13.50	23.98
		5	13.45	23.98
		6	13.59	23.98
		7	13.48	23.98
		8	13.43	23.98
5580	116	0	13.79	23.98
		1	13.74	23.98
		2	13.88	23.98
		3	14.25	23.98
		4	14.29	23.98
		5	14.25	23.98
		6	14.33	23.98
		7	14.24	23.98
		8	14.25	23.98
5700	140	0	13.98	23.98
		1	13.91	23.98
		2	14.12	23.98
		3	14.32	23.98
		4	14.32	23.98
		5	14.29	23.98
		6	14.37	23.98
		7	14.25	23.98
		8	14.24	23.98

Ant.0

802.11ac\_VHT20 (UNII 3)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac\_VHT20 Mode: 5745~5825)

802.11ac_VHT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	0	10.04	0.23	10.27	30
		1	9.81	0.43	10.24	30
		2	9.76	0.62	10.38	30
		3	9.90	0.81	10.71	30
		4	9.62	1.13	10.75	30
		5	9.34	1.38	10.72	30
		6	9.16	1.58	10.74	30
		7	9.09	1.63	10.71	30
		8	8.93	1.83	10.76	30
5785	157	0	10.11	0.23	10.35	30
		1	9.87	0.43	10.30	30
		2	9.84	0.62	10.46	30
		3	9.99	0.81	10.80	30
		4	9.69	1.13	10.82	30
		5	9.41	1.38	10.79	30
		6	9.31	1.58	10.90	30
		7	9.23	1.63	10.86	30
		8	8.93	1.83	10.76	30
5825	165	0	10.37	0.23	10.60	30
		1	10.09	0.43	10.52	30
		2	10.13	0.62	10.75	30
		3	10.19	0.81	11.00	30
		4	9.89	1.13	11.02	30
		5	9.62	1.38	11.00	30
		6	9.45	1.58	11.03	30
		7	9.40	1.63	11.02	30
		8	9.13	1.83	10.96	30

**Ant.1**

**802.11ac\_VHT20 (UNII 3)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT20 Mode: 5745~5825)**

802.11ac_VHT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	0	10.30	0.24	10.54	30
		1	10.02	0.44	10.46	30
		2	10.04	0.62	10.66	30
		3	10.17	0.81	10.98	30
		4	9.86	1.16	11.03	30
		5	9.62	1.38	11.00	30
		6	9.57	1.52	11.09	30
		7	9.33	1.62	10.95	30
		8	9.04	1.84	10.88	30
5785	157	0	10.35	0.24	10.59	30
		1	9.98	0.44	10.42	30
		2	10.01	0.62	10.63	30
		3	10.17	0.81	10.98	30
		4	9.90	1.16	11.06	30
		5	9.61	1.38	10.99	30
		6	9.48	1.52	11.00	30
		7	9.37	1.62	10.99	30
		8	9.11	1.84	10.96	30
5825	165	0	9.99	0.24	10.23	30
		1	9.79	0.44	10.23	30
		2	9.67	0.62	10.29	30
		3	9.88	0.81	10.69	30
		4	9.53	1.16	10.70	30
		5	9.31	1.38	10.69	30
		6	9.29	1.52	10.81	30
		7	9.05	1.62	10.67	30
		8	8.86	1.84	10.70	30

■ TEST RESULTS\_Sum Data of Ant.0 and Ant.1 (UNII 3)

Conducted Output Power Measurements (802.11ac\_VHT20 Mode: 5745~5825)

802.11ac_VHT20 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5745	149	0	13.42	30
		1	13.36	30
		2	13.53	30
		3	13.86	30
		4	13.90	30
		5	13.87	30
		6	13.93	30
		7	13.84	30
		8	13.83	30
5785	157	0	13.48	30
		1	13.37	30
		2	13.56	30
		3	13.90	30
		4	13.95	30
		5	13.90	30
		6	13.96	30
		7	13.94	30
		8	13.87	30
5825	165	0	13.43	30
		1	13.39	30
		2	13.53	30
		3	13.86	30
		4	13.87	30
		5	13.86	30
		6	13.93	30
		7	13.86	30
		8	13.84	30

Ant.0

802.11n\_HT40 (UNII 1)

▣ TEST RESULTS

Conducted Output Power Measurements (802.11n\_HT40 Mode: 5190~5230)

802.11n_HT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5190	38	0	9.33	0.46	9.79	23.98
		1	8.95	0.84	9.79	23.98
		2	8.64	1.16	9.80	23.98
		3	8.28	1.45	9.73	23.98
		4	7.84	1.94	9.78	23.98
		5	7.47	2.28	9.76	23.98
		6	7.31	2.44	9.75	23.98
		7	7.11	2.61	9.72	23.98
5230	46	0	9.58	0.46	10.04	23.98
		1	9.16	0.84	10.00	23.98
		2	8.88	1.16	10.04	23.98
		3	8.65	1.45	10.10	23.98
		4	8.12	1.94	10.06	23.98
		5	7.69	2.28	9.98	23.98
		6	7.52	2.44	9.96	23.98
		7	7.35	2.61	9.96	23.98

**Ant.1**

**802.11n\_HT40 (UNII 1)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11n\_HT40 Mode: 5190~5230)**

802.11n_HT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5190	38	0	9.57	0.45	10.02	23.98
		1	9.21	0.85	10.06	23.98
		2	8.84	1.17	10.01	23.98
		3	8.49	1.45	9.94	23.98
		4	8.08	1.91	10.00	23.98
		5	7.67	2.28	9.95	23.98
		6	7.51	2.43	9.94	23.98
		7	7.33	2.59	9.92	23.98
5230	46	0	9.33	0.45	9.78	23.98
		1	8.93	0.85	9.78	23.98
		2	8.58	1.17	9.75	23.98
		3	8.22	1.45	9.67	23.98
		4	7.84	1.91	9.76	23.98
		5	7.49	2.28	9.77	23.98
		6	7.34	2.43	9.77	23.98
		7	7.15	2.59	9.74	23.98

■ TEST RESULTS \_ Sum Data of Ant.0 and Ant.1 (UNII 1)

Conducted Output Power Measurements (802.11n\_HT40 Mode: 5190~5230)

802.11n_HT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5190	38	0	12.92	23.98
		1	12.94	23.98
		2	12.92	23.98
		3	12.85	23.98
		4	12.90	23.98
		5	12.87	23.98
		6	12.86	23.98
		7	12.83	23.98
5230	46	0	12.92	23.98
		1	12.90	23.98
		2	12.91	23.98
		3	12.90	23.98
		4	12.92	23.98
		5	12.89	23.98
		6	12.88	23.98
		7	12.86	23.98

Ant.0

802.11n\_HT40 (UNII 2A)

■ TEST RESULTS

Conducted Output Power Measurements (802.11n\_HT40 Mode: 5270~5310)

802.11n_HT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5270	54	0	9.54	0.46	10.00	23.98
		1	9.19	0.84	10.03	23.98
		2	8.85	1.16	10.01	23.98
		3	8.53	1.45	9.98	23.98
		4	7.96	1.94	9.90	23.98
		5	7.65	2.28	9.93	23.98
		6	7.46	2.44	9.90	23.98
		7	7.31	2.61	9.92	23.98
5310	62	0	9.35	0.46	9.80	23.98
		1	9.02	0.84	9.86	23.98
		2	8.61	1.16	9.78	23.98
		3	8.38	1.45	9.83	23.98
		4	7.93	1.94	9.87	23.98
		5	7.47	2.28	9.75	23.98
		6	7.29	2.44	9.73	23.98
		7	7.11	2.61	9.72	23.98

**Ant.1**

**802.11n\_HT40 (UNII 2A)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11n\_HT40 Mode: 5270~5310)**

802.11n_HT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5270	54	0	9.45	0.45	9.90	23.98
		1	9.06	0.85	9.91	23.98
		2	8.70	1.17	9.87	23.98
		3	8.38	1.45	9.83	23.98
		4	7.99	1.91	9.90	23.98
		5	7.53	2.28	9.80	23.98
		6	7.44	2.43	9.87	23.98
		7	7.25	2.59	9.84	23.98
5310	62	0	9.38	0.45	9.83	23.98
		1	9.01	0.85	9.86	23.98
		2	8.65	1.17	9.81	23.98
		3	8.34	1.45	9.79	23.98
		4	7.82	1.91	9.73	23.98
		5	7.49	2.28	9.77	23.98
		6	7.34	2.43	9.77	23.98
		7	7.11	2.59	9.71	23.98

■ TEST RESULTS \_ Sum Data of Ant.0 and Ant.1 (UNII 2A)

Conducted Output Power Measurements (802.11n\_HT40 Mode: 5270~5310)

802.11n_HT40 Mode				
Frequency [MHz]	Channel No.	MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
5270	54	0	12.96	23.98
		1	12.98	23.98
		2	12.95	23.98
		3	12.92	23.98
		4	12.91	23.98
		5	12.88	23.98
		6	12.90	23.98
		7	12.89	23.98
5310	62	0	12.83	23.98
		1	12.87	23.98
		2	12.81	23.98
		3	12.82	23.98
		4	12.81	23.98
		5	12.77	23.98
		6	12.76	23.98
		7	12.73	23.98

Ant.0

802.11n\_HT40 (UNII 2C)

■ TEST RESULTS

Conducted Output Power Measurements (802.11n\_HT40 Mode: 5510~5670)

802.11n_HT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5510	102	0	9.32	0.46	9.78	23.98
		1	9.01	0.84	9.84	23.98
		2	8.61	1.16	9.77	23.98
		3	8.28	1.45	9.73	23.98
		4	7.84	1.94	9.79	23.98
		5	7.49	2.28	9.77	23.98
		6	7.36	2.44	9.80	23.98
		7	7.15	2.61	9.76	23.98
5550	110	0	9.30	0.46	9.76	23.98
		1	8.91	0.84	9.75	23.98
		2	8.60	1.16	9.76	23.98
		3	8.26	1.45	9.71	23.98
		4	7.77	1.94	9.71	23.98
		5	7.48	2.28	9.76	23.98
		6	7.33	2.44	9.77	23.98
		7	7.11	2.61	9.72	23.98
5670	134	0	9.37	0.46	9.82	23.98
		1	9.02	0.84	9.85	23.98
		2	8.67	1.16	9.83	23.98
		3	8.33	1.45	9.78	23.98
		4	7.90	1.94	9.84	23.98
		5	7.56	2.28	9.84	23.98
		6	7.40	2.44	9.84	23.98
		7	7.21	2.61	9.82	23.98

**Ant.1**

**802.11n\_HT40 (UNII 2C)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11n\_HT40 Mode: 5510~5670)**

802.11n_HT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5510	102	0	8.99	0.45	9.43	23.98
		1	8.66	0.85	9.51	23.98
		2	8.25	1.17	9.42	23.98
		3	7.94	1.45	9.39	23.98
		4	7.52	1.91	9.44	23.98
		5	7.12	2.28	9.40	23.98
		6	6.97	2.43	9.40	23.98
		7	6.79	2.59	9.38	23.98
5550	110	0	9.42	0.45	9.87	23.98
		1	9.04	0.85	9.89	23.98
		2	8.71	1.17	9.87	23.98
		3	8.45	1.45	9.90	23.98
		4	7.92	1.91	9.83	23.98
		5	7.56	2.28	9.84	23.98
		6	7.40	2.43	9.83	23.98
		7	7.22	2.59	9.81	23.98
5670	134	0	9.46	0.45	9.91	23.98
		1	9.12	0.85	9.97	23.98
		2	8.78	1.17	9.95	23.98
		3	8.37	1.45	9.82	23.98
		4	7.96	1.91	9.88	23.98
		5	7.64	2.28	9.92	23.98
		6	7.45	2.43	9.88	23.98
		7	7.29	2.59	9.88	23.98

■ TEST RESULTS \_ Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Output Power Measurements (802.11n\_HT40 Mode: 5510~5670)

802.11n_HT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5510	102	0	12.62	23.98
		1	12.69	23.98
		2	12.61	23.98
		3	12.57	23.98
		4	12.63	23.98
		5	12.60	23.98
		6	12.61	23.98
		7	12.58	23.98
5550	110	0	12.83	23.98
		1	12.83	23.98
		2	12.83	23.98
		3	12.82	23.98
		4	12.78	23.98
		5	12.81	23.98
		6	12.81	23.98
		7	12.78	23.98
5670	134	0	12.88	23.98
		1	12.92	23.98
		2	12.90	23.98
		3	12.81	23.98
		4	12.87	23.98
		5	12.89	23.98
		6	12.87	23.98
		7	12.86	23.98

Ant.0

802.11n\_HT40 (UNII 3)

▣ TEST RESULTS

Conducted Output Power Measurements (802.11n\_HT40 Mode: 5755~5795)

802.11n_HT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5755	151	0	9.32	0.46	9.77	30
		1	8.99	0.84	9.83	30
		2	8.58	1.16	9.74	30
		3	8.31	1.45	9.76	30
		4	7.71	1.94	9.66	30
		5	7.42	2.28	9.70	30
		6	7.31	2.44	9.75	30
		7	7.11	2.61	9.72	30
5795	159	0	9.41	0.46	9.87	30
		1	9.15	0.84	9.99	30
		2	8.74	1.16	9.90	30
		3	8.35	1.45	9.80	30
		4	7.98	1.94	9.92	30
		5	7.59	2.28	9.87	30
		6	7.46	2.44	9.90	30
		7	7.26	2.61	9.87	30

**Ant.1**

**802.11n\_HT40 (UNII 3)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11n\_HT40 Mode: 5755~5795)**

802.11n_HT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5755	151	0	9.53	0.45	9.97	30
		1	9.17	0.85	10.02	30
		2	8.81	1.17	9.97	30
		3	8.50	1.45	9.95	30
		4	8.01	1.91	9.93	30
		5	7.68	2.28	9.96	30
		6	7.52	2.43	9.95	30
		7	7.34	2.59	9.93	30
5795	159	0	9.47	0.45	9.92	30
		1	9.12	0.85	9.97	30
		2	8.82	1.17	9.99	30
		3	8.52	1.45	9.97	30
		4	8.02	1.91	9.93	30
		5	7.68	2.28	9.96	30
		6	7.51	2.43	9.94	30
		7	7.28	2.59	9.88	30

■ TEST RESULTS\_ Sum Data of Ant.0 and Ant.1 (UNII 3)

Conducted Output Power Measurements (802.11n\_HT40 Mode: 5755~5795)

802.11n_HT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5755	151	0	12.88	30
		1	12.94	30
		2	12.87	30
		3	12.87	30
		4	12.81	30
		5	12.84	30
		6	12.86	30
		7	12.84	30
5795	159	0	12.91	30
		1	12.99	30
		2	12.96	30
		3	12.90	30
		4	12.94	30
		5	12.93	30
		6	12.93	30
		7	12.89	30

**TEST Plots for Ant.0\_802.11n\_HT40**

**802.11n\_HT40 UNII 1 BAND Average Power  
(5190 MHz ~5230 MHz) CH 46 MCS3**



**802.11n\_HT40 UNII 2A BAND Average Power  
(5270 MHz ~5310 MHz) CH 54 MCS1**



**802.11n\_HT40 UNII 2C BAND Average Power  
(5510 MHz ~5670 MHz) CH 134 MCS1**



**802.11n\_HT40 UNII 3 BAND Average Power  
(5755 MHz ~5795 MHz) CH 159 MCS1**

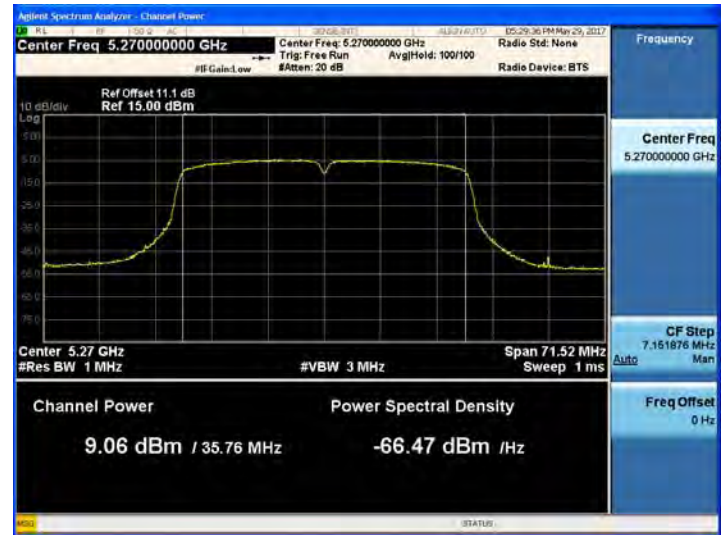


TEST Plots for Ant.1\_802.11n\_HT40

**802.11n\_HT40 UNII 1 BAND Average Power  
(5190 MHz ~5230 MHz) CH 38 MCS1**



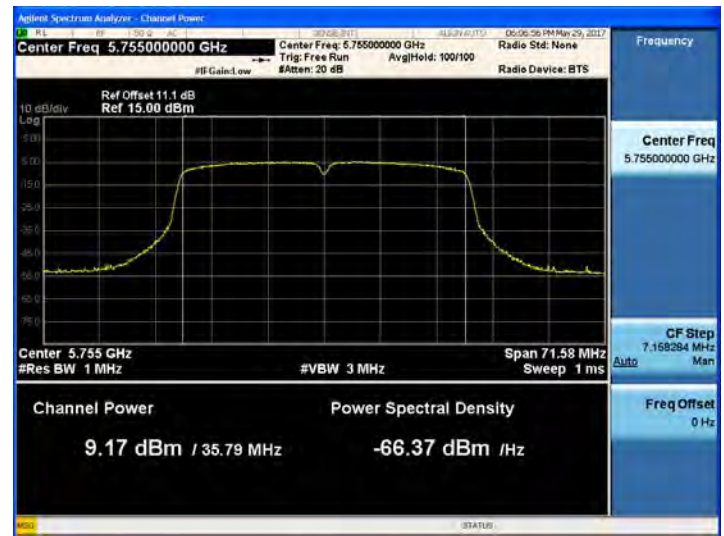
**802.11n\_HT40 UNII 2A BAND Average Power  
(5270 MHz ~5310 MHz) CH 54 MCS1**



**802.11n\_HT40 UNII 2C BAND Average Power  
(5510 MHz ~5670 MHz) CH 134 MCS1**



**802.11n\_HT40 UNII 3 BAND Average Power  
(5755 MHz ~5795 MHz) CH 151 MCS1**



Ant.0

802.11ac\_VHT40 (UNII 1)

▣ TEST RESULTS

Conducted Output Power Measurements (802.11ac\_VHT40 Mode: 5190~5230)

802.11ac_VHT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5190	38	0	9.31	0.45	9.76	23.98
		1	8.91	0.83	9.74	23.98
		2	8.63	1.15	9.78	23.98
		3	8.37	1.42	9.79	23.98
		4	7.85	1.90	9.75	23.98
		5	7.49	2.25	9.74	23.98
		6	7.40	2.37	9.77	23.98
		7	7.17	2.54	9.71	23.98
		8	6.93	2.79	9.73	23.98
		9	6.84	2.88	9.72	23.98
5230	46	0	9.59	0.45	10.05	23.98
		1	9.31	0.83	10.14	23.98
		2	8.89	1.15	10.03	23.98
		3	8.57	1.42	9.99	23.98
		4	8.15	1.90	10.05	23.98
		5	7.82	2.25	10.07	23.98
		6	7.63	2.37	10.00	23.98
		7	7.40	2.54	9.94	23.98
		8	7.21	2.79	10.00	23.98
		9	7.12	2.88	10.00	23.98

**Ant.1**

**802.11ac\_VHT40 (UNII 1)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT40 Mode: 5190~5230)**

802.11ac_VHT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5190	38	0	9.54	0.47	10.01	23.98
		1	9.19	0.83	10.01	23.98
		2	8.86	1.20	10.07	23.98
		3	8.62	1.44	10.06	23.98
		4	8.13	1.89	10.02	23.98
		5	7.79	2.33	10.12	23.98
		6	7.67	2.40	10.08	23.98
		7	7.41	2.55	9.96	23.98
		8	7.21	2.80	10.01	23.98
		9	7.10	2.87	9.98	23.98
5230	46	0	9.37	0.47	9.84	23.98
		1	8.94	0.83	9.77	23.98
		2	8.67	1.20	9.88	23.98
		3	8.37	1.44	9.81	23.98
		4	7.82	1.89	9.71	23.98
		5	7.63	2.33	9.96	23.98
		6	7.48	2.40	9.88	23.98
		7	7.30	2.55	9.85	23.98
		8	7.07	2.80	9.87	23.98
		9	6.96	2.87	9.83	23.98

■ TEST RESULTS\_ Sum Data of Ant.0 and Ant.1 (UNII 1)

Conducted Output Power Measurements (802.11ac\_VHT40 Mode: 5190~5230)

802.11ac_VHT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5190	38	0	12.90	23.98
		1	12.89	23.98
		2	12.94	23.98
		3	12.94	23.98
		4	12.90	23.98
		5	12.94	23.98
		6	12.94	23.98
		7	12.85	23.98
		8	12.88	23.98
		9	12.86	23.98
5230	46	0	12.96	23.98
		1	12.97	23.98
		2	12.97	23.98
		3	12.91	23.98
		4	12.89	23.98
		5	13.03	23.98
		6	12.95	23.98
		7	12.91	23.98
		8	12.95	23.98
		9	12.93	23.98

Ant.0

802.11ac\_VHT40 (UNII 2A)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac\_VHT40 Mode: 5270~5310)

802.11ac_VHT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5270	54	0	9.50	0.45	9.95	23.98
		1	9.16	0.83	10.00	23.98
		2	8.83	1.15	9.98	23.98
		3	8.50	1.42	9.93	23.98
		4	8.04	1.90	9.94	23.98
		5	7.71	2.25	9.96	23.98
		6	7.57	2.37	9.94	23.98
		7	7.35	2.54	9.89	23.98
		8	7.15	2.79	9.94	23.98
		9	7.05	2.88	9.93	23.98
5310	62	0	9.31	0.45	9.76	23.98
		1	8.91	0.83	9.74	23.98
		2	8.67	1.15	9.82	23.98
		3	8.40	1.42	9.82	23.98
		4	7.91	1.90	9.81	23.98
		5	7.51	2.25	9.76	23.98
		6	7.39	2.37	9.76	23.98
		7	7.19	2.54	9.73	23.98
		8	6.98	2.79	9.77	23.98
		9	6.91	2.88	9.79	23.98

**Ant.1**

**802.11ac\_VHT40 (UNII 2A)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT40 Mode: 5270~5310)**

802.11ac_VHT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5270	54	0	9.64	0.47	10.11	23.98
		1	9.16	0.83	9.99	23.98
		2	8.86	1.20	10.07	23.98
		3	8.55	1.44	9.99	23.98
		4	8.15	1.89	10.04	23.98
		5	7.81	2.33	10.14	23.98
		6	7.61	2.40	10.01	23.98
		7	7.44	2.55	9.99	23.98
		8	7.15	2.80	9.95	23.98
		9	7.07	2.87	9.94	23.98
5310	62	0	9.22	0.47	9.69	23.98
		1	8.83	0.83	9.66	23.98
		2	8.48	1.20	9.68	23.98
		3	8.15	1.44	9.59	23.98
		4	7.72	1.89	9.61	23.98
		5	7.37	2.33	9.70	23.98
		6	7.19	2.40	9.59	23.98
		7	6.99	2.55	9.54	23.98
		8	6.73	2.80	9.53	23.98
		9	6.72	2.87	9.60	23.98

■ TEST RESULTS\_ Sum Data of Ant.0 and Ant.1 (UNII 2A)

Conducted Output Power Measurements (802.11ac\_VHT40 Mode: 5270~5310)

802.11ac_VHT40 Mode				
Frequency [MHz]	Channel No.	MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
5270	54	0	13.04	23.98
		1	13.01	23.98
		2	13.04	23.98
		3	12.97	23.98
		4	13.00	23.98
		5	13.06	23.98
		6	12.99	23.98
		7	12.95	23.98
		8	12.96	23.98
		9	12.95	23.98
5310	62	0	12.74	23.98
		1	12.71	23.98
		2	12.76	23.98
		3	12.72	23.98
		4	12.72	23.98
		5	12.74	23.98
		6	12.69	23.98
		7	12.65	23.98
		8	12.66	23.98
		9	12.71	23.98

Ant.0

802.11ac\_VHT40 (UNII 2C)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac\_VHT40 Mode: 5510~5670)

802.11ac_VHT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5510	102	0	9.36	0.45	9.81	23.98
		1	8.98	0.83	9.81	23.98
		2	8.64	1.15	9.79	23.98
		3	8.33	1.42	9.75	23.98
		4	7.89	1.90	9.79	23.98
		5	7.50	2.25	9.75	23.98
		6	7.40	2.37	9.77	23.98
		7	7.22	2.54	9.76	23.98
		8	6.98	2.79	9.78	23.98
		9	6.89	2.88	9.76	23.98
5550	110	0	9.28	0.45	9.73	23.98
		1	8.95	0.83	9.79	23.98
		2	8.59	1.15	9.74	23.98
		3	8.25	1.42	9.68	23.98
		4	7.84	1.90	9.74	23.98
		5	7.52	2.25	9.77	23.98
		6	7.33	2.37	9.70	23.98
		7	7.13	2.54	9.67	23.98
		8	6.96	2.79	9.75	23.98
		9	6.84	2.88	9.71	23.98
5670	134	0	9.33	0.45	9.79	23.98
		1	9.02	0.83	9.85	23.98
		2	8.65	1.15	9.80	23.98
		3	8.40	1.42	9.83	23.98
		4	7.85	1.90	9.76	23.98
		5	7.58	2.25	9.83	23.98
		6	7.47	2.37	9.84	23.98
		7	7.26	2.54	9.80	23.98
		8	7.07	2.79	9.86	23.98
		9	6.98	2.88	9.86	23.98

**Ant.1**

**802.11ac\_VHT40 (UNII 2C)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT40 Mode: 5510~5670)**

802.11ac_VHT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5510	102	0	9.04	0.47	9.51	23.98
		1	8.67	0.83	9.50	23.98
		2	8.27	1.20	9.48	23.98
		3	7.89	1.44	9.33	23.98
		4	7.60	1.89	9.49	23.98
		5	7.18	2.33	9.50	23.98
		6	7.03	2.40	9.43	23.98
		7	6.83	2.55	9.38	23.98
		8	6.58	2.80	9.38	23.98
		9	6.63	2.87	9.50	23.98
5550	110	0	9.23	0.47	9.70	23.98
		1	8.98	0.83	9.81	23.98
		2	8.66	1.20	9.87	23.98
		3	8.32	1.44	9.76	23.98
		4	7.88	1.89	9.78	23.98
		5	7.53	2.33	9.86	23.98
		6	7.42	2.40	9.82	23.98
		7	7.24	2.55	9.79	23.98
		8	7.01	2.80	9.81	23.98
		9	6.91	2.87	9.78	23.98
5670	134	0	9.53	0.47	10.00	23.98
		1	9.14	0.83	9.97	23.98
		2	8.77	1.20	9.98	23.98
		3	8.41	1.44	9.85	23.98
		4	8.07	1.89	9.97	23.98
		5	7.74	2.33	10.07	23.98
		6	7.51	2.40	9.91	23.98
		7	7.31	2.55	9.87	23.98
		8	7.11	2.80	9.91	23.98
		9	7.07	2.87	9.95	23.98

■ TEST RESULTS\_ Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Output Power Measurements (802.11ac\_VHT40 Mode: 5510~5670)

802.11ac_VHT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5510	102	0	12.67	23.98
		1	12.67	23.98
		2	12.65	23.98
		3	12.55	23.98
		4	12.65	23.98
		5	12.64	23.98
		6	12.61	23.98
		7	12.58	23.98
		8	12.59	23.98
		9	12.64	23.98
5550	110	0	12.73	23.98
		1	12.81	23.98
		2	12.82	23.98
		3	12.73	23.98
		4	12.77	23.98
		5	12.83	23.98
		6	12.77	23.98
		7	12.74	23.98
		8	12.79	23.98
		9	12.76	23.98
5670	134	0	12.91	23.98
		1	12.92	23.98
		2	12.90	23.98
		3	12.85	23.98
		4	12.88	23.98
		5	12.96	23.98
		6	12.89	23.98
		7	12.85	23.98
		8	12.90	23.98
		9	12.92	23.98

Ant.0

802.11ac\_VHT40 (UNII 3)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac\_VHT40 Mode: 5755~5795)

802.11ac_VHT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5755	151	0	9.30	0.45	9.75	30
		1	8.92	0.83	9.75	30
		2	8.62	1.15	9.77	30
		3	8.29	1.42	9.71	30
		4	7.90	1.90	9.80	30
		5	7.50	2.25	9.75	30
		6	7.42	2.37	9.79	30
		7	7.20	2.54	9.74	30
		8	6.98	2.79	9.78	30
		9	6.90	2.88	9.78	30
5795	159	0	9.26	0.45	9.72	30
		1	9.13	0.83	9.96	30
		2	8.65	1.15	9.80	30
		3	8.47	1.42	9.89	30
		4	7.99	1.90	9.89	30
		5	7.68	2.25	9.92	30
		6	7.53	2.37	9.91	30
		7	7.31	2.54	9.85	30
		8	7.08	2.79	9.88	30
		9	7.01	2.88	9.89	30

**Ant.1**

**802.11ac\_VHT40 (UNII 3)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT40 Mode: 5755~5795)**

802.11ac_VHT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5755	151	0	9.46	0.47	9.93	30
		1	9.10	0.83	9.93	30
		2	8.78	1.20	9.99	30
		3	8.45	1.44	9.89	30
		4	8.00	1.89	9.90	30
		5	7.74	2.33	10.06	30
		6	7.53	2.40	9.93	30
		7	7.38	2.55	9.93	30
		8	7.13	2.80	9.93	30
		9	7.08	2.87	9.95	30
5795	159	0	9.38	0.47	9.85	30
		1	9.09	0.83	9.92	30
		2	8.72	1.20	9.93	30
		3	8.40	1.44	9.84	30
		4	8.00	1.89	9.89	30
		5	7.64	2.33	9.97	30
		6	7.47	2.40	9.87	30
		7	7.29	2.55	9.84	30
		8	7.10	2.80	9.90	30
		9	6.94	2.87	9.82	30

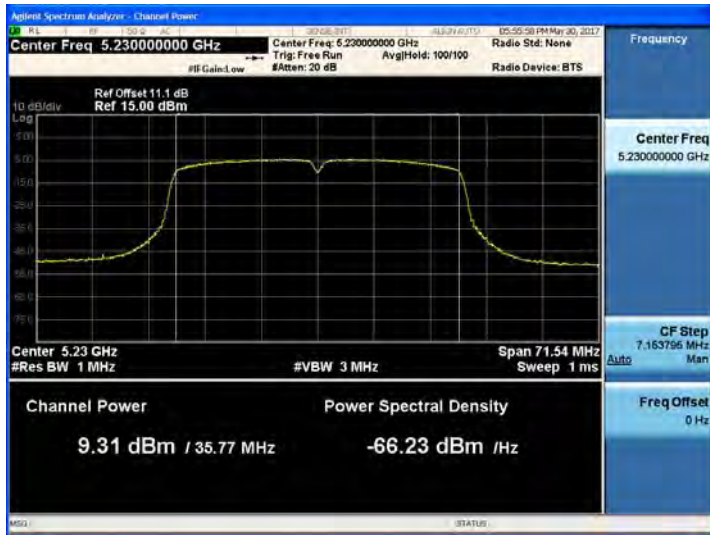
■ TEST RESULTS\_ Sum Data of Ant.0 and Ant.1 (UNII 3)

Conducted Output Power Measurements (802.11ac\_VHT40 Mode: 5755~5795)

802.11ac_VHT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5755	151	0	12.85	30
		1	12.85	30
		2	12.89	30
		3	12.81	30
		4	12.86	30
		5	12.92	30
		6	12.87	30
		7	12.85	30
		8	12.87	30
		9	12.88	30
5795	159	0	12.80	30
		1	12.95	30
		2	12.88	30
		3	12.88	30
		4	12.90	30
		5	12.96	30
		6	12.90	30
		7	12.86	30
		8	12.90	30
		9	12.87	30

TEST Plots for Ant.0\_802.11ac\_VHT40

**802.11ac\_VHT40 UNII 1 BAND Average Power  
(5190 MHz ~5230 MHz) CH 46 MCS1**



**802.11ac\_VHT40 UNII 2A BAND Average Power  
(5270 MHz ~5310 MHz) CH 54 MCS1**



**802.11ac\_VHT40 UNII 2C BAND Average Power  
(5510 MHz ~5670 MHz) CH 134 MCS8**

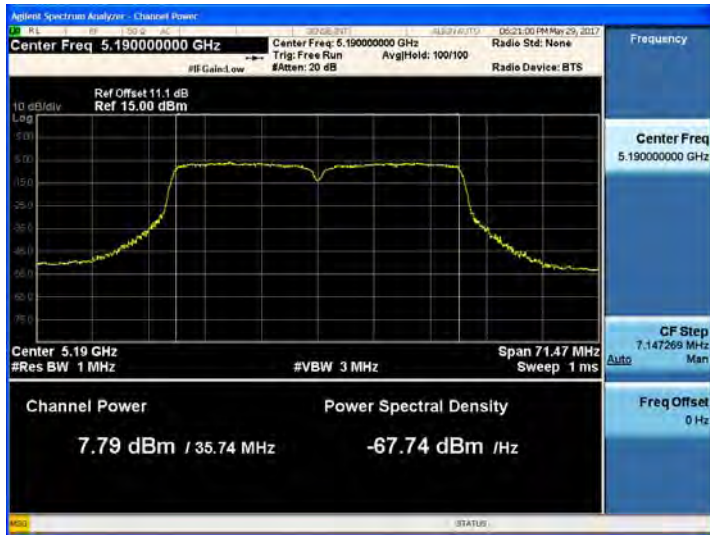


**802.11ac\_VHT40 UNII 3 BAND Average Power  
(5755 MHz ~5795 MHz) CH 159 MCS1**



**TEST Plots for Ant.1\_802.11ac\_VHT40**

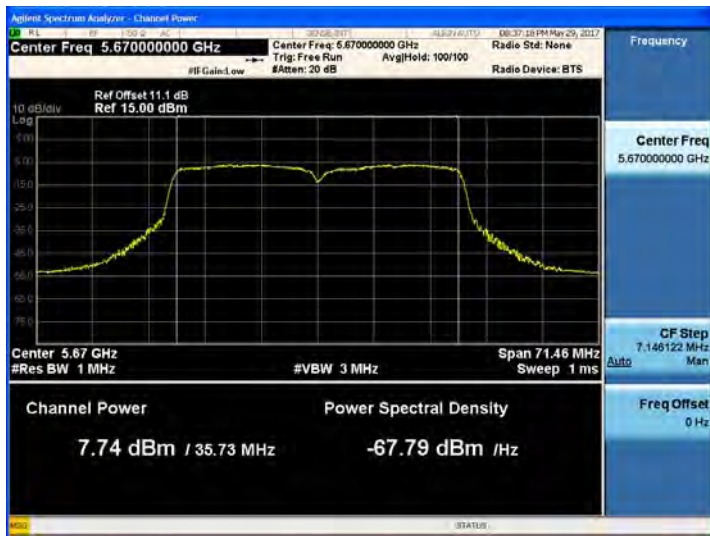
**802.11ac\_VHT40 UNII 1 BAND Average Power  
(5190 MHz ~5230 MHz) CH 38 MCS5**



**802.11ac\_VHT40 UNII 2A BAND Average Power  
(5270 MHz ~5310 MHz) CH 54 MCS5**



**802.11ac\_VHT40 UNII 2C BAND Average Power  
(5510 MHz ~5670 MHz) CH 134 MCS5**



**802.11ac\_VHT40 UNII 3 BAND Average Power  
(5755 MHz ~5795 MHz) CH 151 MCS5**



**Ant.0**

**802.11ac\_VHT80 (UNII 1)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT80 Mode: 5210)**

802.11ac_VHT80 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5210	42	0	8.99	0.73	9.72	23.98
		1	8.56	1.28	9.84	23.98
		2	8.14	1.66	9.80	23.98
		3	7.95	1.98	9.93	23.98
		4	7.31	2.49	9.81	23.98
		5	6.88	2.89	9.77	23.98
		6	6.82	3.04	9.86	23.98
		7	6.75	3.01	9.76	23.98
		8	6.54	3.19	9.73	23.98
		9	6.28	3.30	9.57	23.98

**Ant.1**

**802.11ac\_VHT80 (UNII 1)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT80 Mode: 5210)**

802.11ac_VHT80 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5210	42	0	9.02	0.73	9.75	23.98
		1	8.62	1.22	9.84	23.98
		2	8.15	1.64	9.79	23.98
		3	8.05	1.99	10.04	23.98
		4	7.50	2.48	9.99	23.98
		5	7.04	2.85	9.89	23.98
		6	6.97	3.03	9.99	23.98
		7	6.77	3.20	9.97	23.98
		8	6.74	3.39	10.13	23.98
		9	6.52	3.31	9.83	23.98

▣ TEST RESULTS\_ Sum Data of Ant.0 and Ant.1 (UNII 1)

Conducted Output Power Measurements (802.11ac\_VHT80 Mode: 5210)

802.11ac_VHT80 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5210	42	0	12.75	23.98
		1	12.85	23.98
		2	12.81	23.98
		3	13.00	23.98
		4	12.91	23.98
		5	12.84	23.98
		6	12.94	23.98
		7	12.88	23.98
		8	12.94	23.98
		9	12.71	23.98

**Ant.0**

**802.11ac\_VHT80 (UNII 2A)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT80 Mode: 5290)**

802.11ac_VHT80 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5290	58	0	9.04	0.73	9.77	23.98
		1	8.62	1.28	9.90	23.98
		2	8.19	1.66	9.85	23.98
		3	7.84	1.98	9.82	23.98
		4	7.43	2.49	9.92	23.98
		5	7.03	2.89	9.91	23.98
		6	6.91	3.04	9.95	23.98
		7	6.77	3.01	9.78	23.98
		8	6.61	3.19	9.80	23.98
		9	6.55	3.30	9.85	23.98

**Ant.1**

**802.11ac\_VHT80 (UNII 2A)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT80 Mode: 5290)**

802.11ac_VHT80 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5290	58	0	8.88	0.73	9.61	23.98
		1	8.43	1.22	9.66	23.98
		2	8.03	1.64	9.67	23.98
		3	7.80	1.99	9.79	23.98
		4	7.27	2.48	9.75	23.98
		5	6.81	2.85	9.66	23.98
		6	6.63	3.03	9.65	23.98
		7	6.65	3.20	9.85	23.98
		8	6.43	3.39	9.81	23.98
		9	6.33	3.31	9.64	23.98

▣ TEST RESULTS\_ Sum Data of Ant.0 and Ant.1 (UNII 2A)

Conducted Output Power Measurements (802.11ac\_VHT80 Mode: 5290)

802.11ac_VHT80 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5290	58	0	12.70	23.98
		1	12.79	23.98
		2	12.77	23.98
		3	12.82	23.98
		4	12.85	23.98
		5	12.80	23.98
		6	12.81	23.98
		7	12.83	23.98
		8	12.82	23.98
		9	12.76	23.98

**Ant.0**

**802.11ac\_VHT80 (UNII 2C)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT80 Mode: 5530 MHz)**

802.11ac_VHT80 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5530	106	0	8.77	0.73	9.50	23.98
		1	8.35	1.28	9.63	23.98
		2	7.96	1.66	9.62	23.98
		3	7.84	1.98	9.82	23.98
		4	7.18	2.49	9.67	23.98
		5	6.88	2.89	9.77	23.98
		6	6.67	3.04	9.70	23.98
		7	6.53	3.01	9.54	23.98
		8	6.37	3.19	9.56	23.98
		9	6.29	3.30	9.59	23.98

**Ant.1**

**802.11ac\_VHT80 (UNII 2C)**

**■ TEST RESULTS**

**Conducted Output Power Measurements (802.11ac\_VHT80 Mode: 5530 MHz)**

802.11ac_VHT80 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5530	106	0	8.56	0.73	9.29	23.98
		1	8.18	1.22	9.41	23.98
		2	7.78	1.64	9.42	23.98
		3	7.60	1.99	9.59	23.98
		4	7.04	2.48	9.52	23.98
		5	6.66	2.85	9.51	23.98
		6	6.49	3.03	9.52	23.98
		7	6.33	3.20	9.54	23.98
		8	6.13	3.39	9.51	23.98
		9	6.06	3.31	9.37	23.98

▣ TEST RESULTS\_ Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Output Power Measurements (802.11ac\_VHT80 Mode: 5530 MHz)

802.11ac_VHT80 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5530	106	0	12.41	23.98
		1	12.53	23.98
		2	12.53	23.98
		3	12.72	23.98
		4	12.61	23.98
		5	12.65	23.98
		6	12.62	23.98
		7	12.55	23.98
		8	12.55	23.98
		9	12.49	23.98

**Ant.0**

802.11ac\_VHT80 (UNII 3)

**■ TEST RESULTS**

Conducted Output Power Measurements (802.11ac\_VHT80 Mode: 5775)

802.11ac_VHT80 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5775	155	0	9.03	0.73	9.77	30
		1	8.57	1.28	9.86	30
		2	8.24	1.66	9.90	30
		3	8.03	1.98	10.00	30
		4	7.44	2.49	9.93	30
		5	7.02	2.89	9.91	30
		6	6.91	3.04	9.94	30
		7	6.85	3.01	9.86	30
		8	6.57	3.19	9.76	30
		9	6.53	3.30	9.83	30

**Ant.1**

802.11ac\_VHT80 (UNII 3)

**■ TEST RESULTS**

Conducted Output Power Measurements (802.11ac\_VHT80 Mode: 5775)

802.11ac_VHT80 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5775	155	0	8.94	0.73	9.67	30
		1	8.54	1.22	9.76	30
		2	8.15	1.64	9.78	30
		3	7.86	1.99	9.85	30
		4	7.40	2.48	9.89	30
		5	6.96	2.85	9.81	30
		6	6.87	3.03	9.90	30
		7	6.73	3.20	9.93	30
		8	6.50	3.39	9.89	30
		9	6.48	3.31	9.79	30

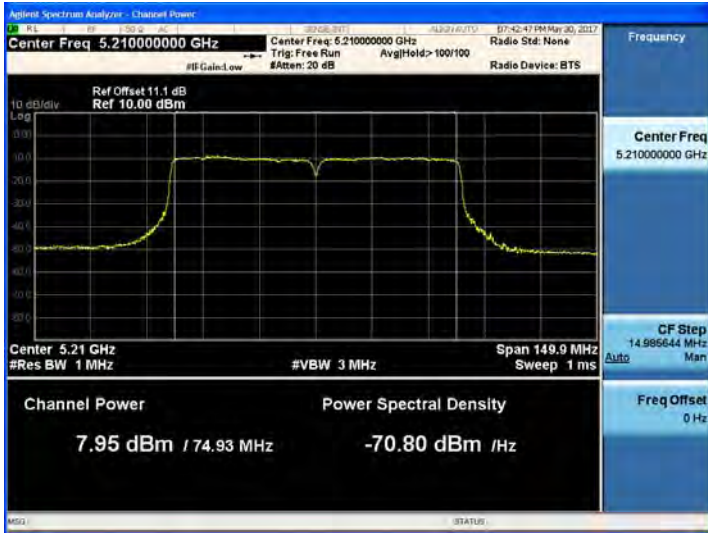
■ TEST RESULTS\_Sum Data of Ant.0 and Ant.1 (UNII 3)

Conducted Output Power Measurements (802.11ac\_VHT80 Mode: 5775)

802.11ac_VHT80 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5775	155	0	12.73	30
		1	12.82	30
		2	12.85	30
		3	12.94	30
		4	12.92	30
		5	12.87	30
		6	12.93	30
		7	12.91	30
		8	12.84	30
		9	12.82	30

TEST Plots Ant.0 for 802.11ac\_VHT80

**802.11ac\_VHT80 UNII 1 BAND Average Power  
(5210 MHz) CH 42 MCS3**



**802.11ac\_VHT80 UNII 2A BAND Average Power  
(5290 MHz) CH 58 MCS6**



**802.11ac\_VHT80 UNII 2C BAND Average Power  
(5530 MHz) CH 106 MCS3**

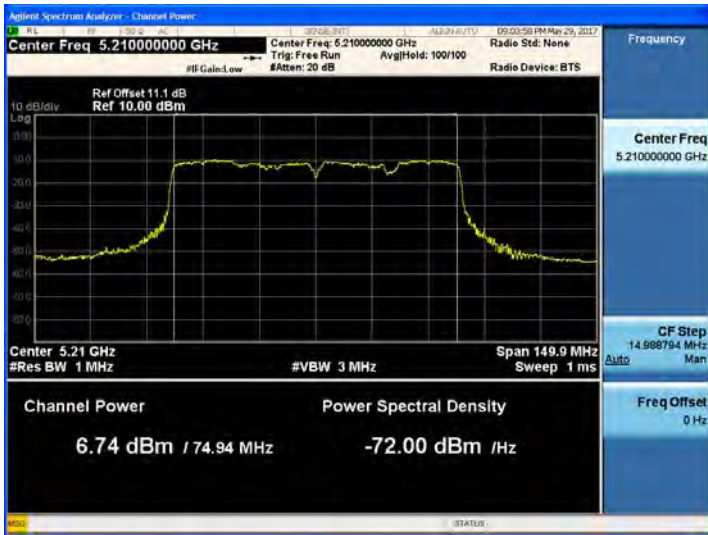


**802.11ac\_VHT80 UNII 3 BAND Average Power  
(5775 MHz) CH 155 MCS3**



TEST Plots Ant.1 for 802.11ac\_VHT80

**802.11ac\_VHT80 UNII 1 BAND Average Power  
(5210 MHz) CH 42 MCS8**



**802.11ac\_VHT80 UNII 2A BAND Average Power  
(5290 MHz) CH 58 MCS7**



**802.11ac\_VHT80 UNII 2C BAND Average Power  
(5530 MHz) CH 106 MCS3**



**802.11ac\_VHT80 UNII 3 BAND Average Power  
(5775 MHz) CH 155 MCS7**

