

FCC UNII REPORT

FCC Certification

Applicant Name:

SAMSUNG Electronics Co., Ltd.

Date of Issue:

June 09, 2017

Test Site/Location:

HCT CO., LTD., 74,Seoicheon-ro 578beon-gil,Majang-myeo,Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Address:

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

Report No.: HCT-R-1706-F036

HCT FRN: 0005866421

FCC ID : A3LSMW627Y
APPLICANT : SAMSUNG Electronics Co., Ltd.
Model:

SM-W627Y

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	14.41	14.31	17.32
	802.11n	20	5180 – 5240	14.34	14.54	17.40
	802.11n	40	5190 - 5230	11.33	11.38	14.35
	802.11ac	20	5180 – 5240	14.26	14.42	17.29
	802.11ac	40	5190 - 5230	11.46	11.45	14.47
	802.11ac	80	5210	11.24	11.37	14.25
UNII2A	802.11a	20	5260 – 5320	14.24	14.29	17.27
	802.11n	20	5260 – 5320	14.26	14.41	17.35
	802.11n	40	5270 – 5310	11.39	11.46	14.44
	802.11ac	20	5260 – 5320	14.39	14.41	17.32
	802.11ac	40	5270 – 5310	11.38	11.48	14.39
	802.11ac	80	5290	11.30	11.34	14.28
UNII2C	802.11a	20	5500 – 5700	14.39	13.80	17.11
	802.11n	20	5500 – 5700	14.35	13.89	17.13
	802.11n	40	5510 – 5670	11.31	11.40	14.33
	802.11ac	20	5500 – 5700	14.34	13.95	17.15
	802.11ac	40	5510 – 5670	11.34	11.45	14.34
	802.11ac	80	5530 – 5610	11.30	11.18	14.25
UNII3	802.11a	20	5745 – 5825	14.32	14.04	17.15
	802.11n	20	5745 – 5825	14.26	14.19	17.21
	802.11n	40	5755 – 5795	11.12	11.43	14.27
	802.11ac	20	5745 – 5825	14.32	14.14	17.18
	802.11ac	40	5755 – 5795	11.38	11.25	14.31
	802.11ac	80	5775	11.17	11.25	14.21

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)



Report prepared by : Se Wook Park
Engineer of Telecommunication testing center



Approved by : Jong Seok Lee
Manager of Telecommunication testing center

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1706-F036	June 09, 2017	- First Approval Report

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1. GENERAL INFORMATION

Applicant: SAMSUNG Electronics Co.,Ltd.
Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID: A3LSMW627Y
EUT Type: Tablet
Model: SM-W627Y
Date(s) of Tests: May 02, 2017 ~ June 07, 2017
Place of Tests: HCT Co., Ltd.
74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea

2. EUT DESCRIPTION

Model	SM-W627Y	
EUT Type	Tablet	
Power Supply	DC 7.6 V	
Battery Information	Model: EB-BW627ABE Type: Li-ion Battery	
Frequency Range	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 - 5610MHz (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 - 5610MHz (UNII 2C)/ 5775 MHz (UNII 3)
Modulation Type	OFDM(802.11a, 802.11n, 802.11ac)	
Antenna Specification	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	-1.30 dBi
	Ant 1	-4.10 dBi
Directional Antenna Gain	Ant 0 & 1	0.42 dBi

5GHz Band (UNII 2A)

Antenna Gain	Ant 0	-2.40 dBi
	Ant 1	-3.50 dBi
Directional Antenna Gain	Ant 0 & 1	0.08 dBi

5GHz Band (UNII 2C)

Antenna Gain	Ant 0	0.30 dBi
	Ant 1	1.30 dBi
Directional Antenna Gain	Ant 0 & 1	3.82 dBi

5GHz Band (UNII 3)

Antenna Gain	Ant 0	0.50 dBi
	Ant 1	1.30 dBi
Directional Antenna Gain	Ant 0 & 1	3.92 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

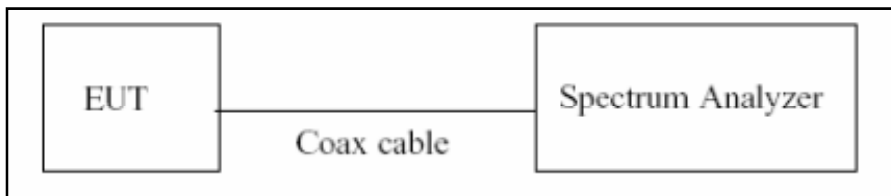
Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
26dB Bandwidth	§15.407 (for Power Measurement)	N/A	CONDUCTED	PASS
6 dB Bandwidth	§15.407(e)	>500 kHz (5725-5850 MHz)		PASS
Maximum Conducted Output Power	§15.407(a)	< 250 mW (5150-5250 MHz) < 250 mW or 11+10 log log ₁₀ (BW) dBm (5250-5350 MHz) < 250 mW or 11+10 log log ₁₀ (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	PASS
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 _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11a	6	2.062	2.169	0.95093450	0.218
	9	1.384	1.489	0.92922374	0.319
	12	1.045	1.151	0.90747479	0.422
	18	0.705	0.809	0.87114805	0.599
	24	0.532	0.637	0.83451949	0.786
	36	0.364	0.469	0.77536232	1.105
	48	0.275	0.381	0.72321429	1.407
	54	0.248	0.353	0.70294785	1.531
Mode	MCS INDEX	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11n_HT20	0	1.924	2.033	0.94648829	0.239
	1	0.981	1.086	0.90396968	0.438
	2	0.667	0.773	0.86309524	0.639
	3	0.508	0.613	0.82749991	0.822
	4	0.352	0.456	0.77192982	1.124
	5	0.272	0.376	0.72340426	1.406
	6	0.248	0.353	0.70335857	1.528
	7	0.228	0.333	0.68514885	1.642
802.11n_HT40	0	0.949	1.058	0.89648720	0.475
	1	0.492	0.596	0.82494970	0.836
	2	0.340	0.444	0.76576577	1.159
	3	0.264	0.368	0.71739130	1.442
	4	0.188	0.293	0.64236301	1.922
	5	0.153	0.257	0.59405682	2.262
	6	0.140	0.245	0.57172414	2.428
	7	0.128	0.232	0.55142258	2.585

Mode	MCS INDEX	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ac_VHT20	0	1.931	2.040	0.94666667	0.238
	1	0.988	1.093	0.90456738	0.436
	2	0.671	0.775	0.86549665	0.627
	3	0.516	0.621	0.83047255	0.807
	4	0.356	0.460	0.77391304	1.113
	5	0.280	0.385	0.72761818	1.381
	6	0.252	0.356	0.70781987	1.501
	7	0.232	0.337	0.68845217	1.621
	8	0.200	0.307	0.65244682	1.855
802.11ac_VHT40	0	0.952	1.056	0.90128471	0.451
	1	0.496	0.600	0.82666667	0.827
	2	0.344	0.448	0.76789186	1.147
	3	0.269	0.373	0.72093048	1.421
	4	0.193	0.297	0.64952308	1.874
	5	0.156	0.261	0.59956629	2.222
	6	0.144	0.250	0.57561894	2.399
	7	0.132	0.237	0.55847475	2.530
	8	0.116	0.221	0.52685261	2.783
	9	0.112	0.216	0.51697077	2.865
802.11ac_VHT80	0	0.600	0.704	0.85208381	0.695
	1	0.320	0.425	0.75306063	1.232
	2	0.228	0.332	0.68688404	1.631
	3	0.180	0.284	0.63409831	1.978
	4	0.136	0.240	0.56689560	2.465
	5	0.112	0.218	0.51249857	2.903
	6	0.104	0.209	0.49739709	3.033
	7	0.096	0.192	0.49858399	3.023
	8	0.088	0.185	0.47451017	3.238
	9	0.084	0.191	0.43999958	3.565

Duty Cycle Factor for ANT 01

Mode	Data Rate (Mbps)	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11a	6	2.064	2.169	0.95141066	0.216
	9	1.387	1.489	0.93150685	0.308
	12	1.043	1.149	0.90730073	0.422
	18	0.704	0.808	0.87096738	0.600
	24	0.532	0.637	0.83516484	0.782
	36	0.364	0.470	0.77446809	1.110
	48	0.276	0.381	0.72440945	1.400
	54	0.248	0.353	0.70149317	1.540
Mode	MCS INDEX	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11n_HT20	0	1.924	2.030	0.94807370	0.232
	1	0.979	1.090	0.89812615	0.467
	2	0.669	0.773	0.86507893	0.629
	3	0.508	0.612	0.82957339	0.811
	4	0.352	0.456	0.77192982	1.124
	5	0.272	0.376	0.72340426	1.406
	6	0.248	0.358	0.69244933	1.596
	7	0.228	0.333	0.68514885	1.642
802.11n_HT40	0	0.949	1.056	0.89823591	0.466
	1	0.492	0.596	0.82494970	0.836
	2	0.341	0.444	0.76756757	1.149
	3	0.265	0.368	0.71936083	1.431
	4	0.188	0.292	0.64429470	1.909
	5	0.152	0.256	0.59353927	2.266
	6	0.140	0.245	0.57295499	2.419
	7	0.128	0.232	0.55159350	2.584

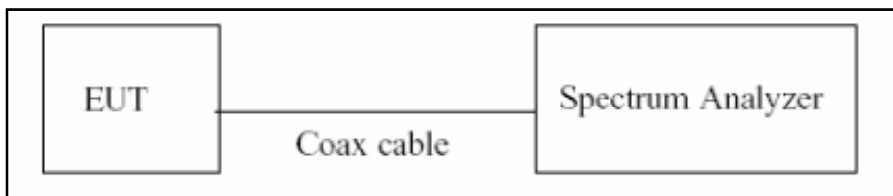
Mode	MCS INDEX	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ac_VHT20	0	1.930	2.037	0.94776119	0.233
	1	0.988	1.097	0.90082401	0.454
	2	0.673	0.777	0.86587728	0.625
	3	0.515	0.619	0.83168272	0.800
	4	0.356	0.460	0.77391304	1.113
	5	0.280	0.389	0.72016461	1.426
	6	0.252	0.357	0.70627803	1.510
	7	0.232	0.337	0.68883610	1.619
	8	0.200	0.305	0.65616798	1.830
802.11ac_VHT40	0	0.952	1.056	0.90128471	0.451
	1	0.496	0.605	0.82022472	0.861
	2	0.343	0.448	0.76708804	1.152
	3	0.268	0.374	0.71581197	1.452
	4	0.192	0.302	0.63770495	1.954
	5	0.156	0.266	0.58736205	2.311
	6	0.144	0.249	0.57936565	2.370
	7	0.132	0.237	0.55741194	2.538
	8	0.116	0.221	0.52572841	2.792
	9	0.112	0.221	0.50669659	2.953
802.11ac_VHT80	0	0.601	0.706	0.85127479	0.699
	1	0.320	0.424	0.75471698	1.222
	2	0.228	0.333	0.68511640	1.642
	3	0.180	0.285	0.63169540	1.995
	4	0.136	0.240	0.56613803	2.471
	5	0.112	0.221	0.50574661	2.961
	6	0.104	0.208	0.50000000	3.010
	7	0.096	0.192	0.50221289	2.991
	8	0.088	0.183	0.48036945	3.184
	9	0.084	0.180	0.46823584	3.295

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	18.60	N/A	Pass
5200	40	18.35	N/A	Pass
5240	48	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.			
5260	52	18.65	N/A	Pass
5300	60	18.39	N/A	Pass
5320	64	18.76	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

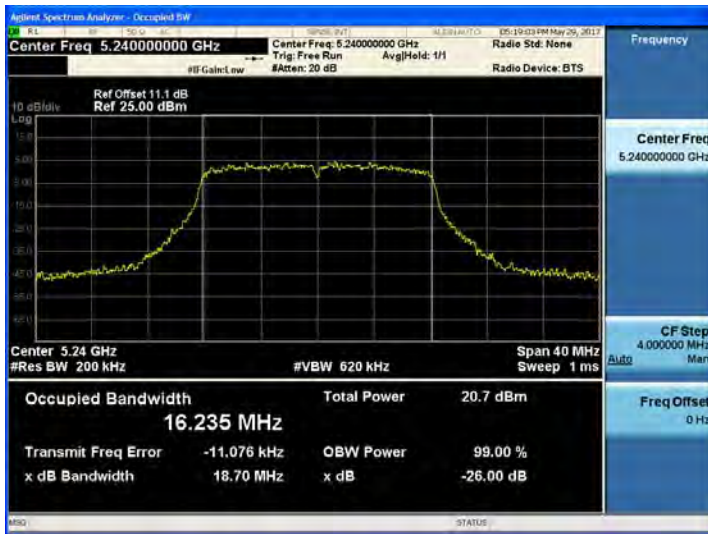
802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	18.78	N/A	Pass
5600	120	18.70	N/A	Pass
5700	140	18.75	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

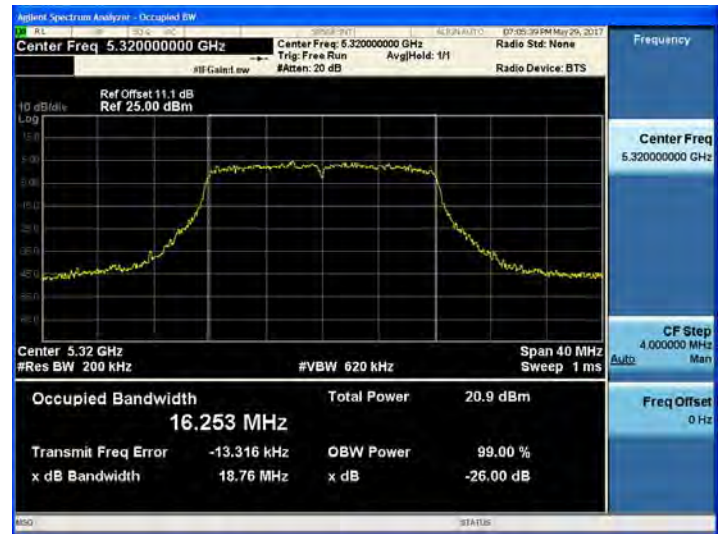
802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	18.49	N/A	Pass
5785	157	18.90	N/A	Pass
5825	165	18.59	N/A	Pass

■ TEST Plot for Ant.0_802.11a

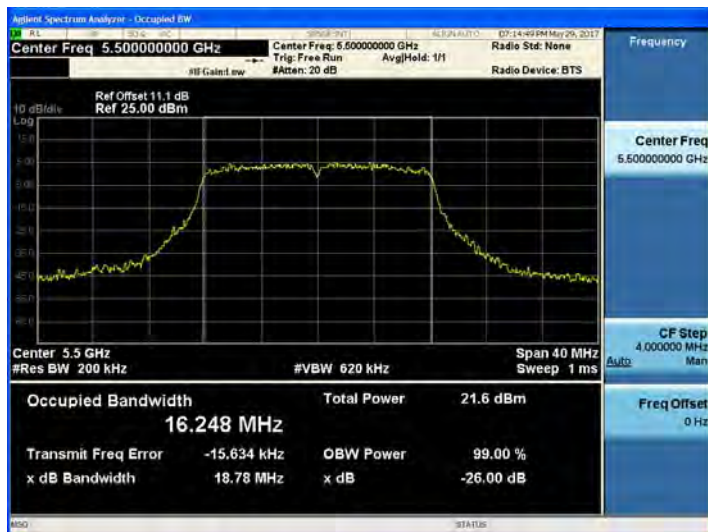
802.11a UNII 1 BAND 26dB Bandwidth (CH 48)



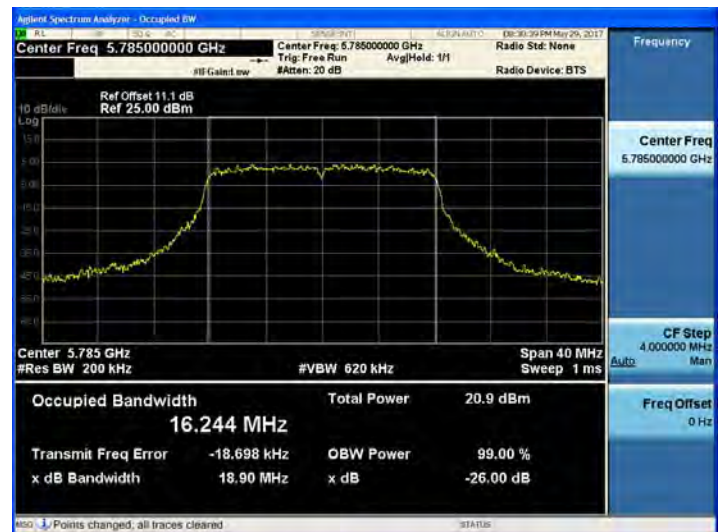
802.11a UNII 2A BAND 26dB Bandwidth (CH 64)



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



802.11a 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_802.11a
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	18.45	N/A	Pass
5200	40	18.57	N/A	Pass
5240	48	18.38	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	18.69	N/A	Pass
5300	60	18.56	N/A	Pass
5320	64	18.49	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

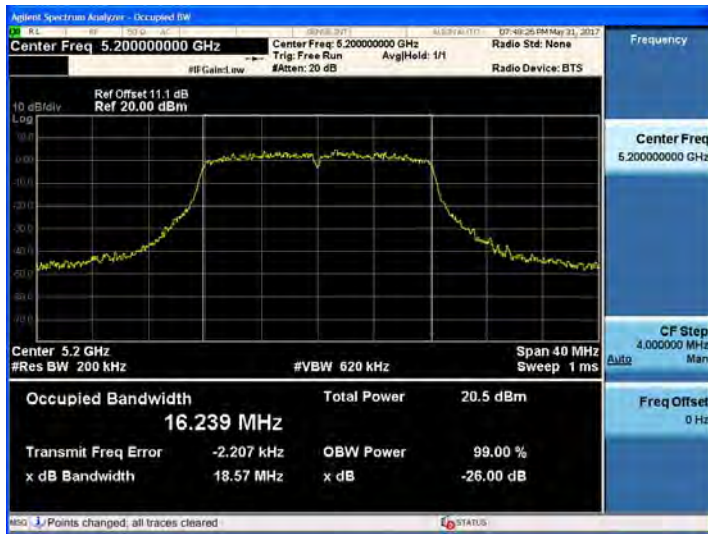
802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	18.52	N/A	Pass
5600	120	18.50	N/A	Pass
5700	140	18.62	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

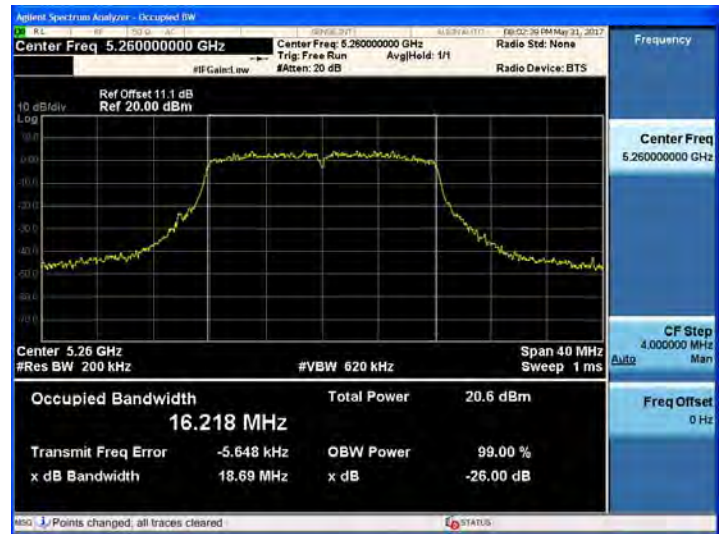
802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	18.28	N/A	Pass
5785	157	18.55	N/A	Pass
5825	165	18.69	N/A	Pass

■ TEST Plot for Ant.1_802.11a

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



802.11a UNII 2A BAND 26dB Bandwidth (CH 52)



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



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	19.49	N/A	Pass
5200	40	19.64	N/A	Pass
5240	48	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.			
5260	52	19.48	N/A	Pass
5300	60	19.52	N/A	Pass
5320	64	19.42	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT20

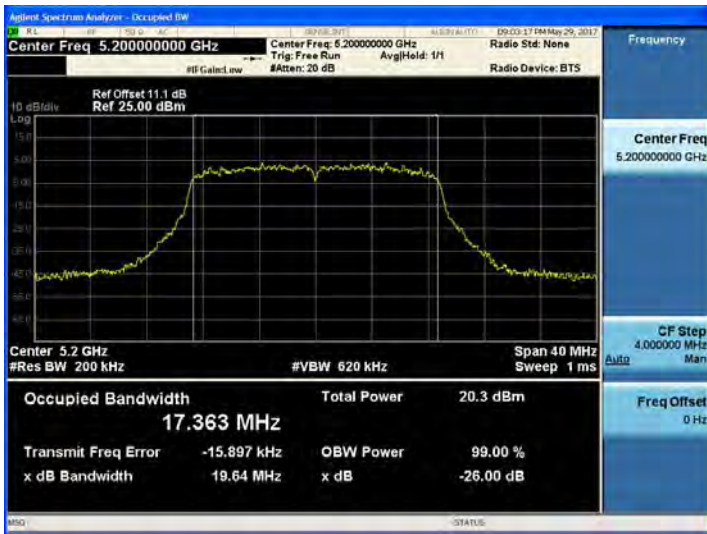
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	19.43	N/A	Pass
5600	120	19.52	N/A	Pass
5700	140	19.59	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT20

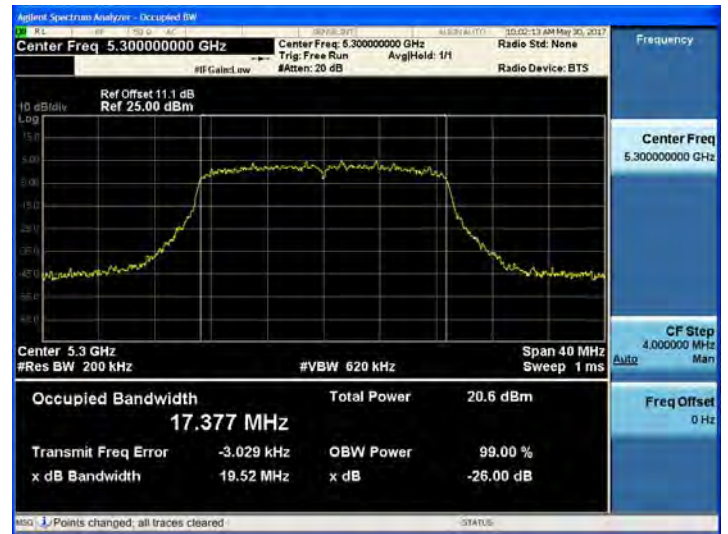
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	19.59	N/A	Pass
5785	157	19.55	N/A	Pass
5825	165	19.58	N/A	Pass

■ TEST Plot for Ant.0_802.11n_HT20

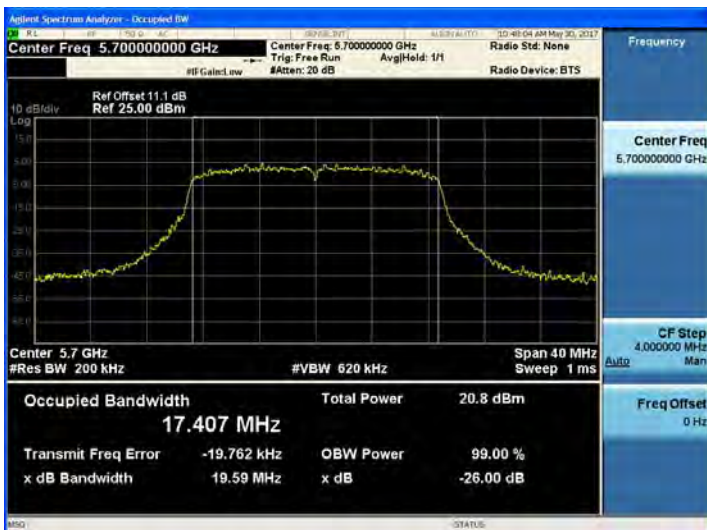
802.11n_HT20 UNII 1 BAND 26dB Bandwidth(CH 40)



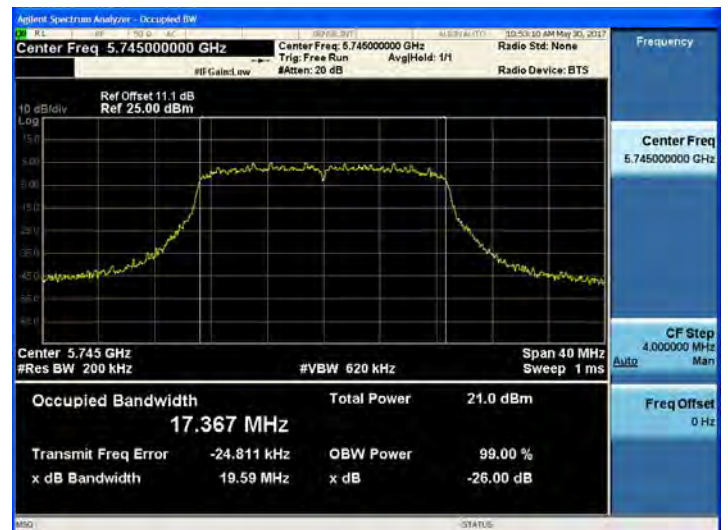
802.11n_HT20 UNII 2A BAND 26dB Bandwidth(CH 60)



802.11n_HT20 UNII 2C BAND 26dB Bandwidth(CH 140)



802.11n_HT20 UNII 3 BAND 26dB Bandwidth(CH 149)



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	19.46	N/A	Pass
5200	40	19.60	N/A	Pass
5240	48	19.46	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	19.47	N/A	Pass
5300	60	19.53	N/A	Pass
5320	64	19.28	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT20

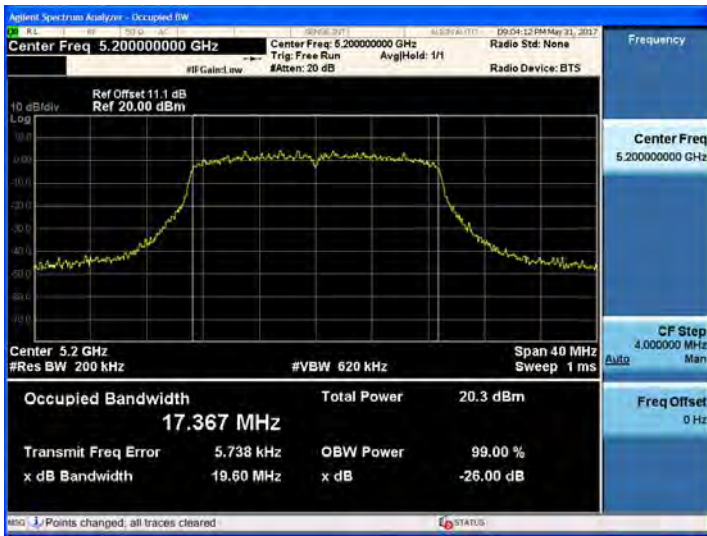
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	19.56	N/A	Pass
5600	120	19.54	N/A	Pass
5700	140	19.62	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT20

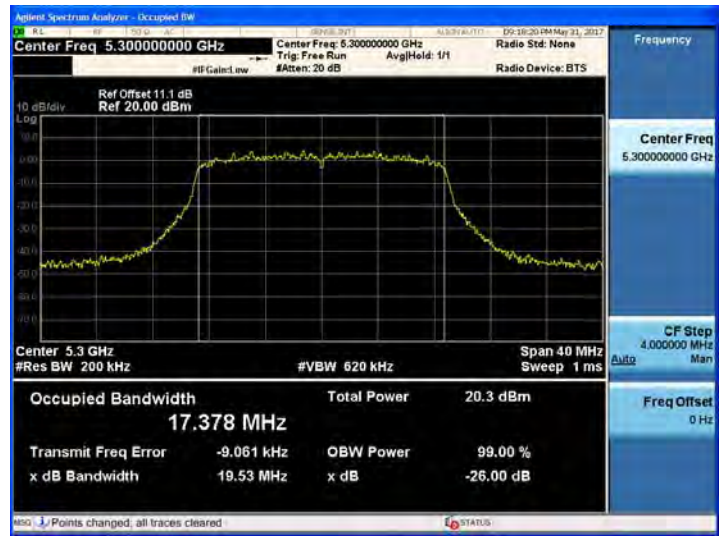
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	19.40	N/A	Pass
5785	157	19.52	N/A	Pass
5825	165	19.64	N/A	Pass

■ 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	19.62	N/A	Pass
5200	40	19.56	N/A	Pass
5240	48	19.59	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	19.41	N/A	Pass
5300	60	19.53	N/A	Pass
5320	64	19.54	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT20

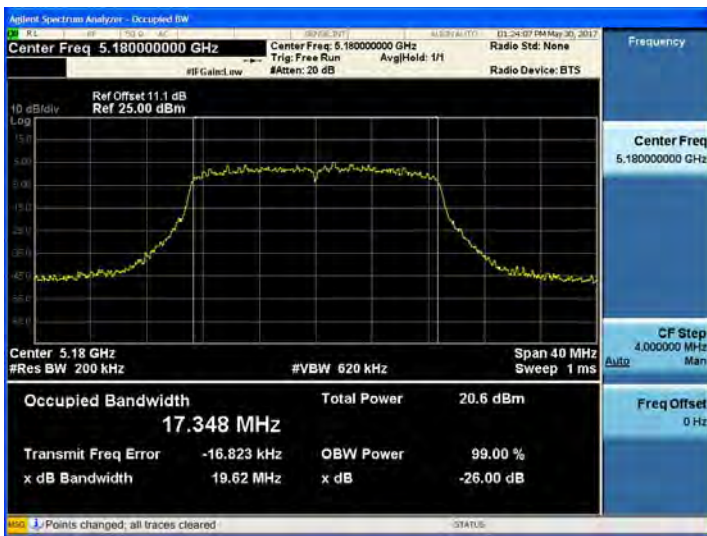
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	19.46	N/A	Pass
5600	120	19.50	N/A	Pass
5700	140	19.43	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT20

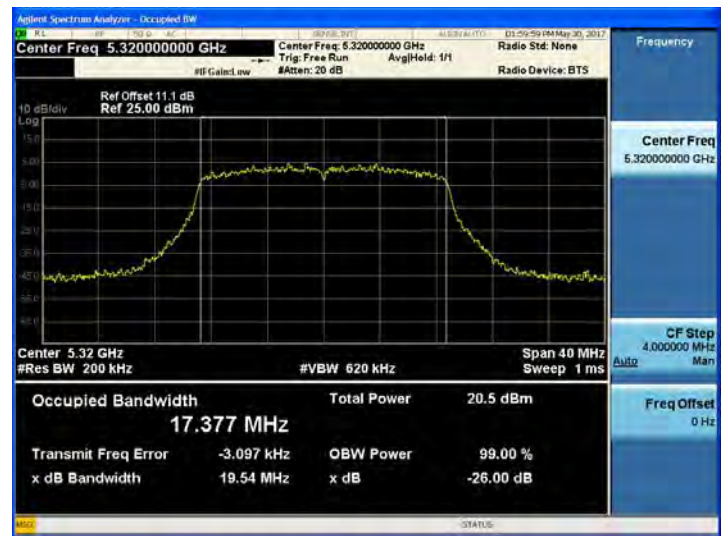
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	19.60	N/A	Pass
5785	157	19.69	N/A	Pass
5825	165	19.62	N/A	Pass

■ TEST Plot for Ant.0_ 802.11ac_VHT20

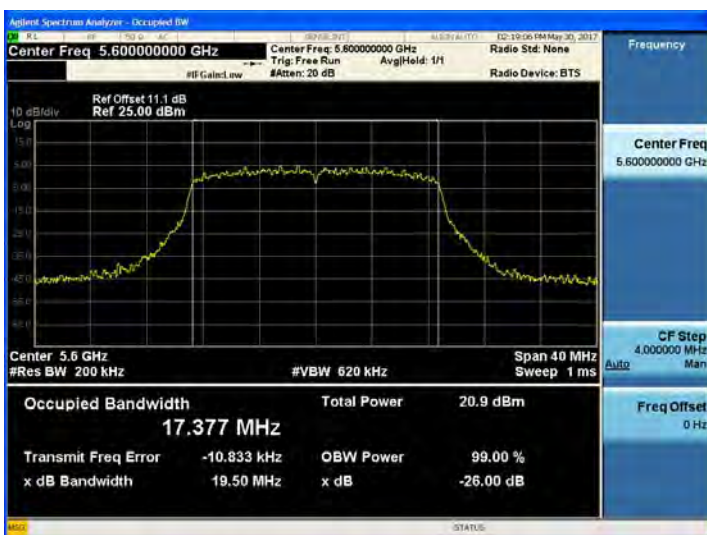
802.11ac_VHT20 UNII 1 BAND 26dB Bandwidth(CH 36)



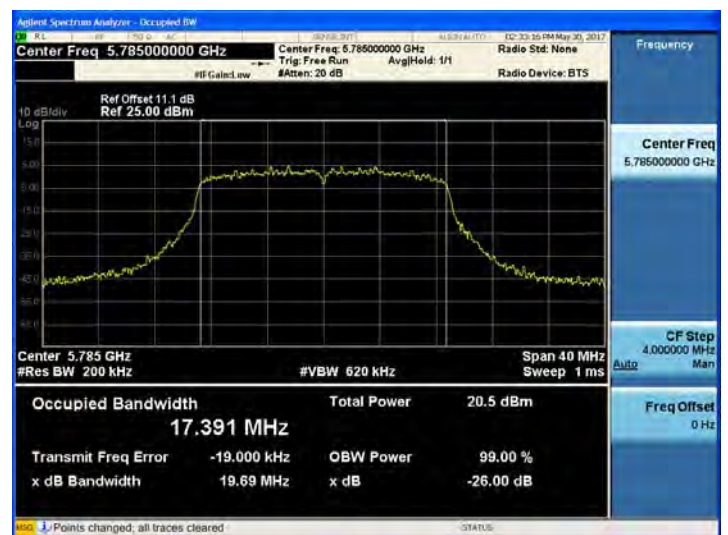
802.11ac_VHT20 UNII 2A BAND 26dB Bandwidth(CH 64)



802.11ac_VHT20 UNII 2C BAND 26dB Bandwidth(CH 120)



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	19.50	N/A	Pass
5200	40	19.71	N/A	Pass
5240	48	19.50	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	19.74	N/A	Pass
5300	60	19.70	N/A	Pass
5320	64	19.68	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT20

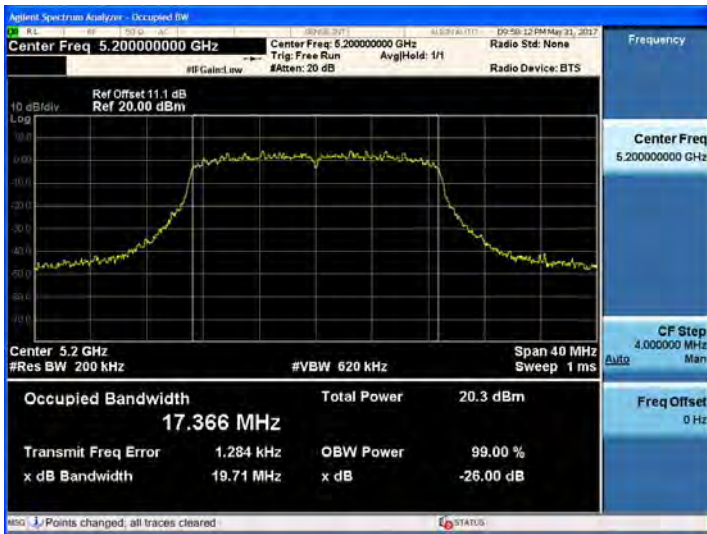
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	19.59	N/A	Pass
5600	120	19.59	N/A	Pass
5700	140	19.49	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT20

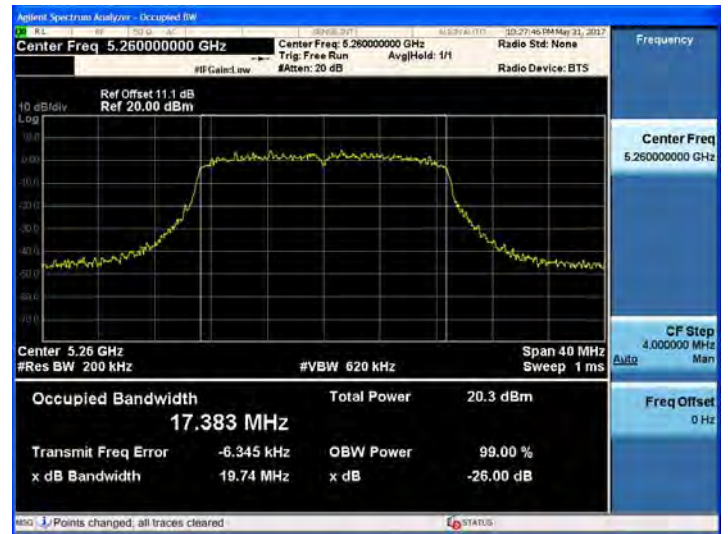
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	19.64	N/A	Pass
5785	157	19.55	N/A	Pass
5825	165	19.47	N/A	Pass

■ TEST Plot for Ant.1_ 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 120)



802.11ac_VHT20 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.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	39.53	N/A	Pass
5230	46	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.			
5270	54	39.97	N/A	Pass
5310	62	39.81	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT40

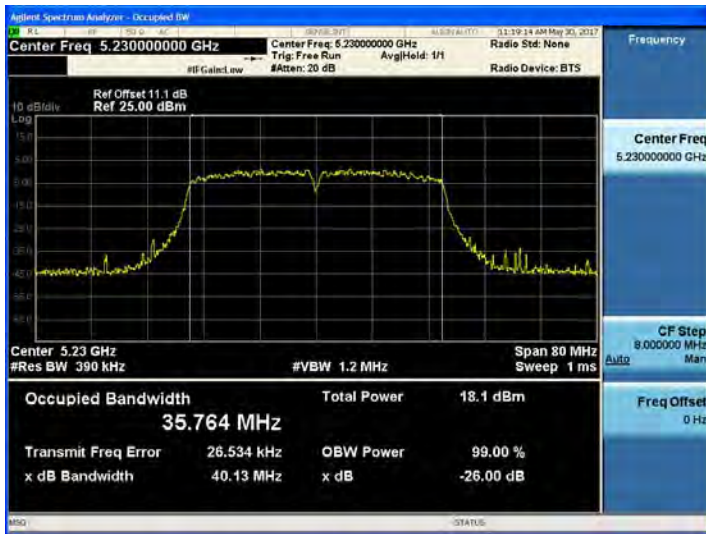
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5510	102	40.25	N/A	Pass
5590	118	39.89	N/A	Pass
5670	134	39.87	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT40

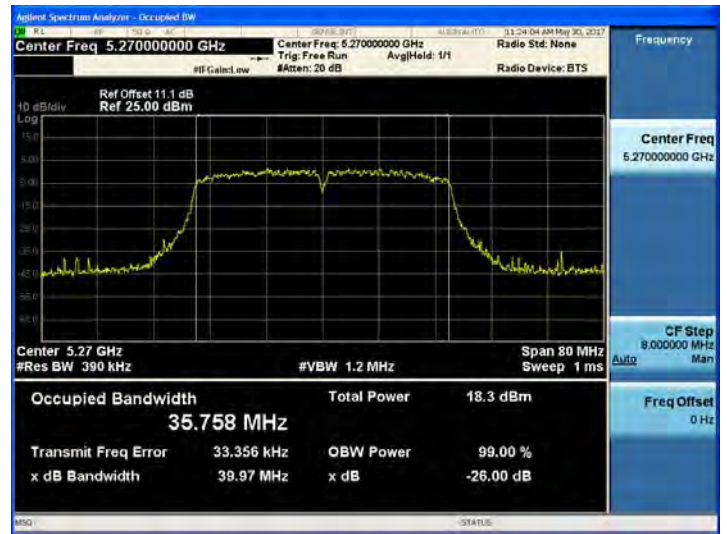
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	39.48	N/A	Pass
5795	159	39.87	N/A	Pass

■ TEST Plot for Ant.0_802.11n_HT40

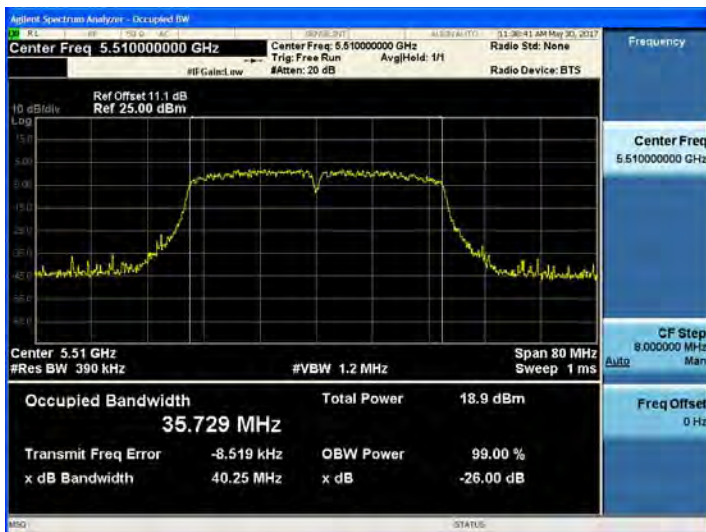
802.11n_HT40 UNII 1 BAND 26dB Bandwidth(CH 46)



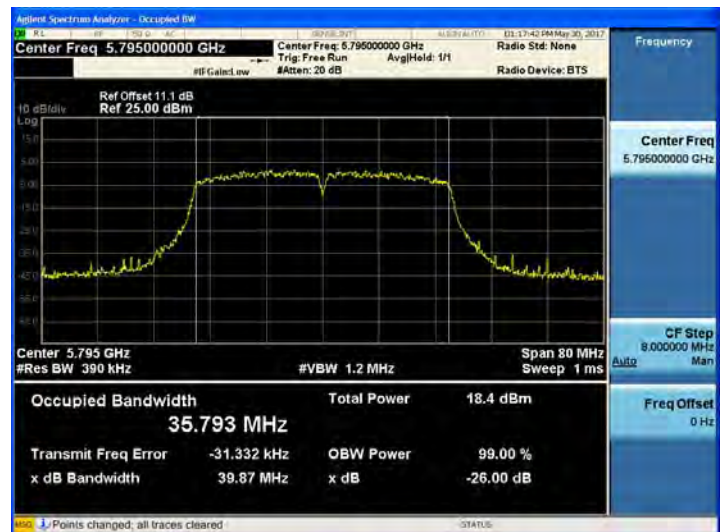
802.11n_HT40 UNII 2A BAND 26dB Bandwidth (CH 54)



802.11n_HT40 UNII 2C BAND 26dB Bandwidth(CH 102)



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.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	40.17	N/A	Pass
5230	46	40.21	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	39.83	N/A	Pass
5310	62	39.86	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT40

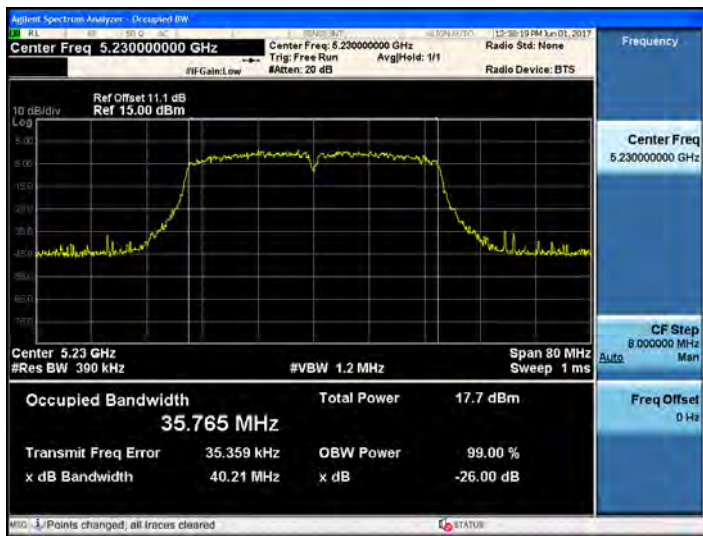
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5510	102	40.52	N/A	Pass
5590	118	39.77	N/A	Pass
5670	134	40.00	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT40

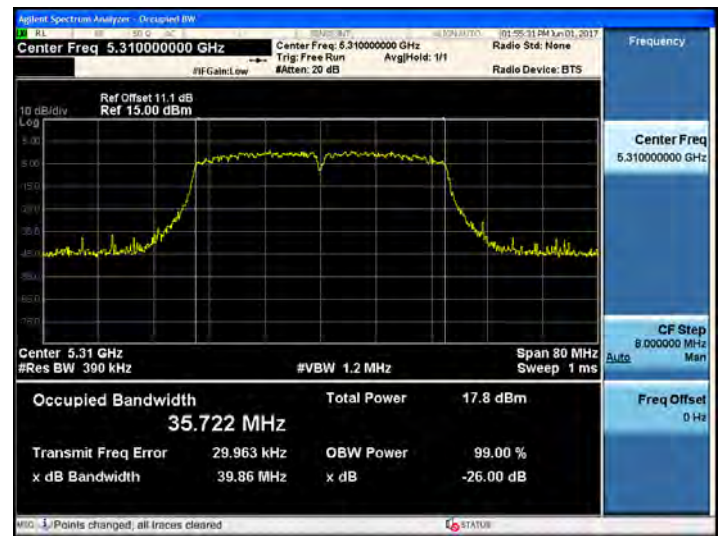
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	39.70	N/A	Pass
5795	159	39.69	N/A	Pass

TEST Plot for Ant.1_802.11n_HT40

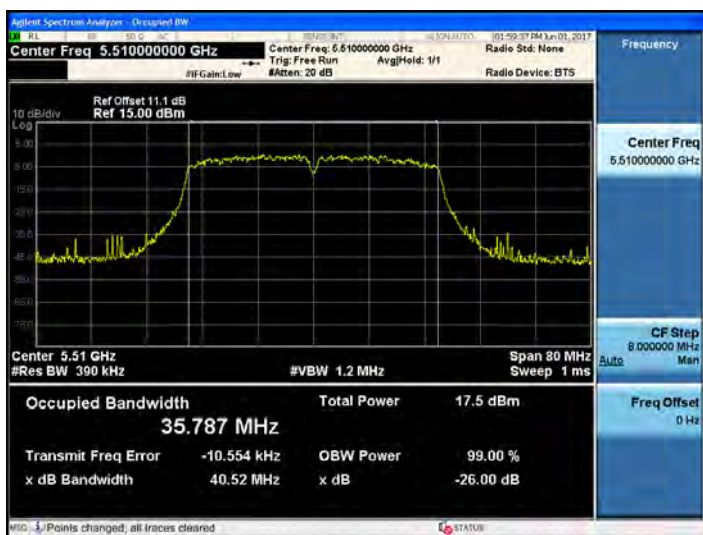
802.11n_HT40 UNII 1 BAND 26dB Bandwidth(CH 46)



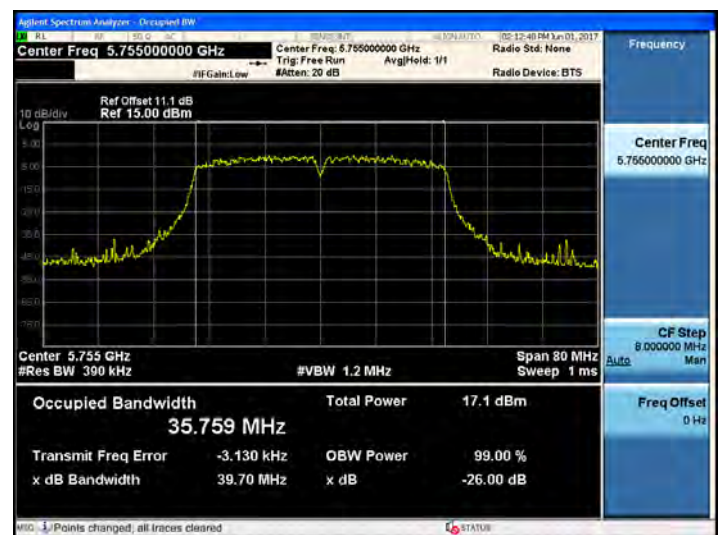
802.11n_HT40 UNII 2A BAND 26dB Bandwidth (CH 62)



802.11n_HT40 UNII 2C BAND 26dB Bandwidth(CH 102)



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.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	40.02	N/A	Pass
5230	46	39.88	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	40.08	N/A	Pass
5310	62	39.96	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT40

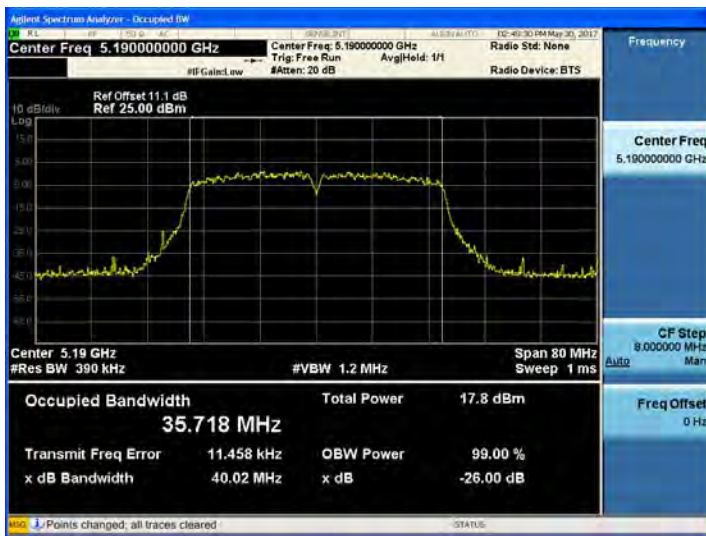
802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5510	102	39.89	N/A	Pass
5590	118	39.89	N/A	Pass
5670	134	39.96	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT40

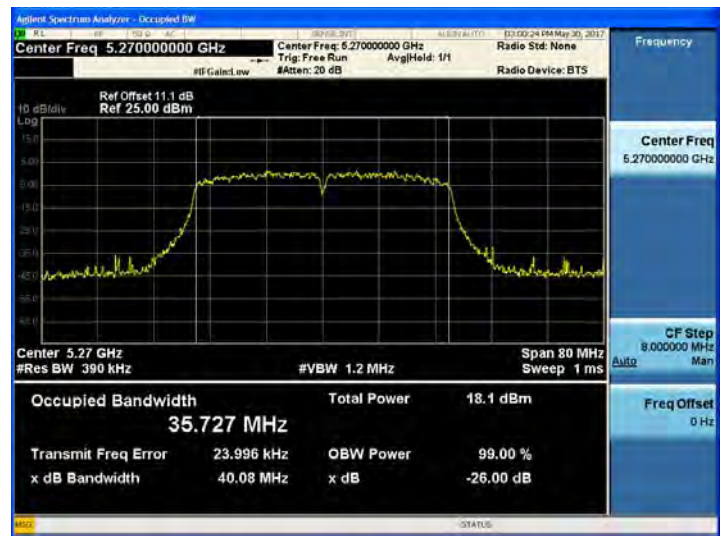
802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	39.99	N/A	Pass
5795	159	39.98	N/A	Pass

■ TEST Plot for Ant.0_802.11ac_VHT40

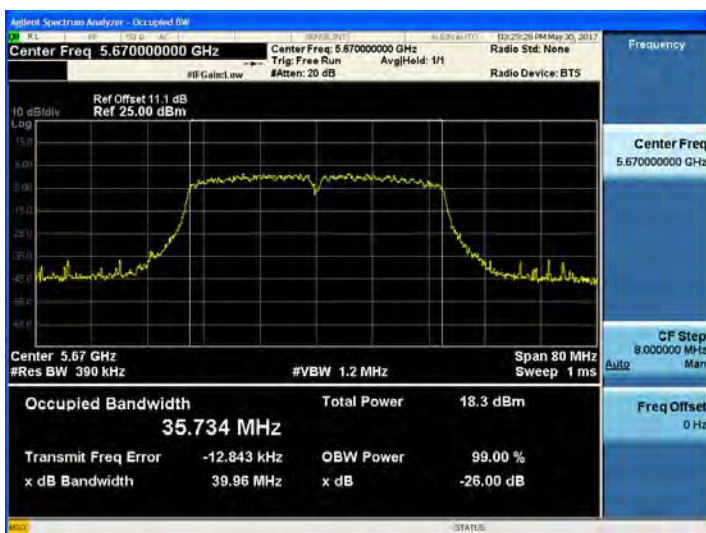
802.11ac_VHT40 UNII 1 BAND 26dB Bandwidth(CH 38)



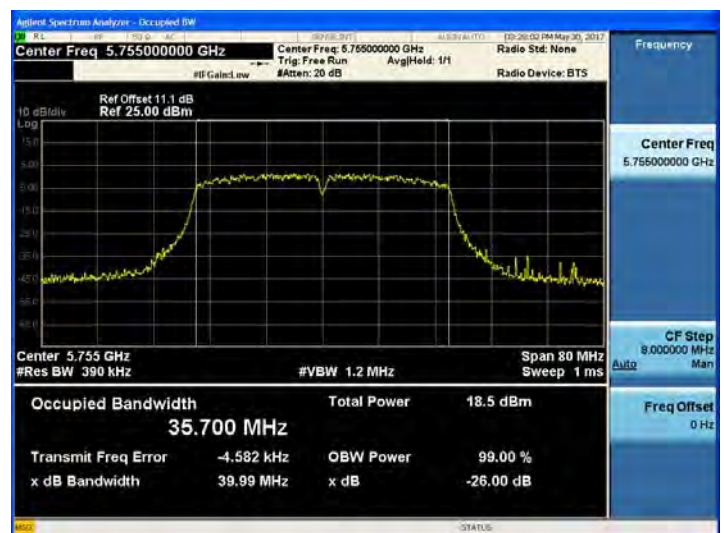
802.11ac_VHT40 UNII 2A BAND 26dB Bandwidth (CH 54)



802.11ac_VHT40 UNII 2C BAND 26dB Bandwidth(CH 134)



802.11ac_VHT40 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_802.11ac_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	39.88	N/A	Pass
5230	46	40.20	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	39.95	N/A	Pass
5310	62	39.98	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT40

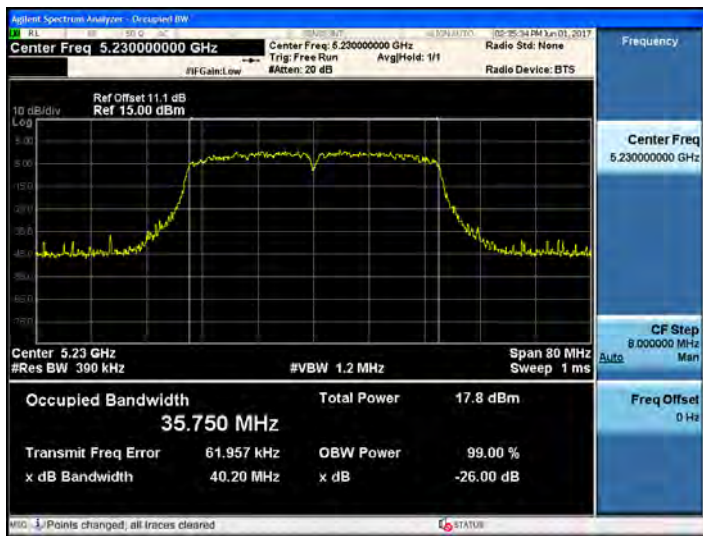
802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5510	102	39.57	N/A	Pass
5590	118	39.82	N/A	Pass
5670	134	39.96	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT40

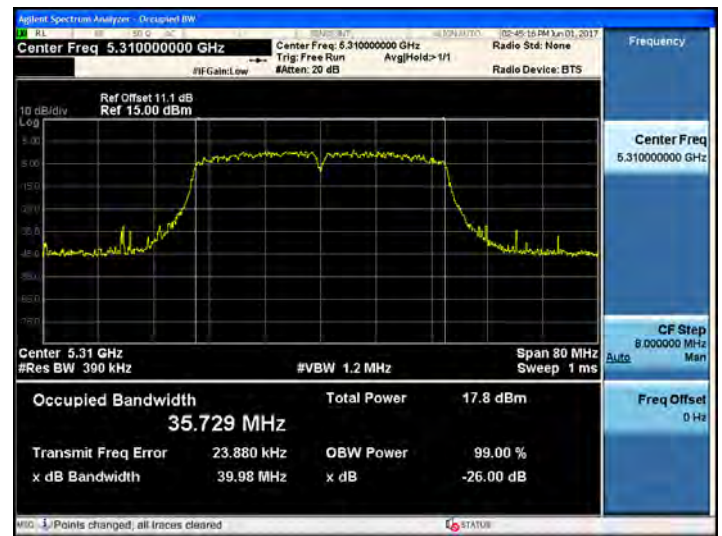
802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	39.75	N/A	Pass
5795	159	40.04	N/A	Pass

■ TEST Plot for Ant.1_802.11ac_VHT40

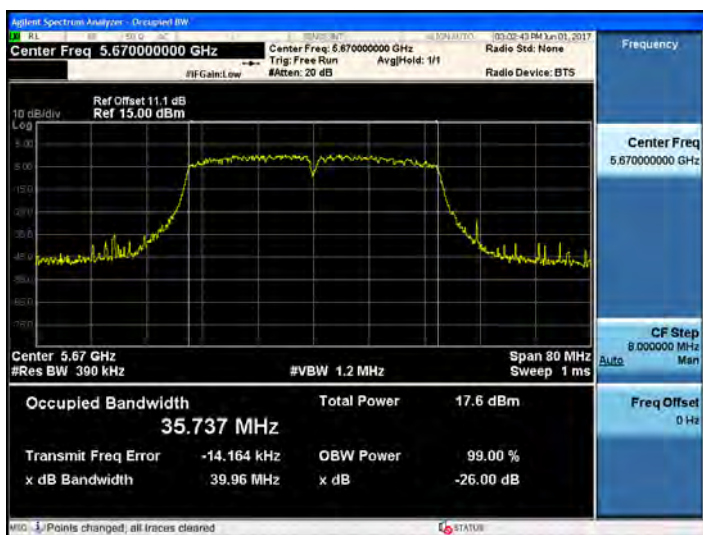
802.11ac_VHT40 UNII 1 BAND 26dB Bandwidth(CH 46)



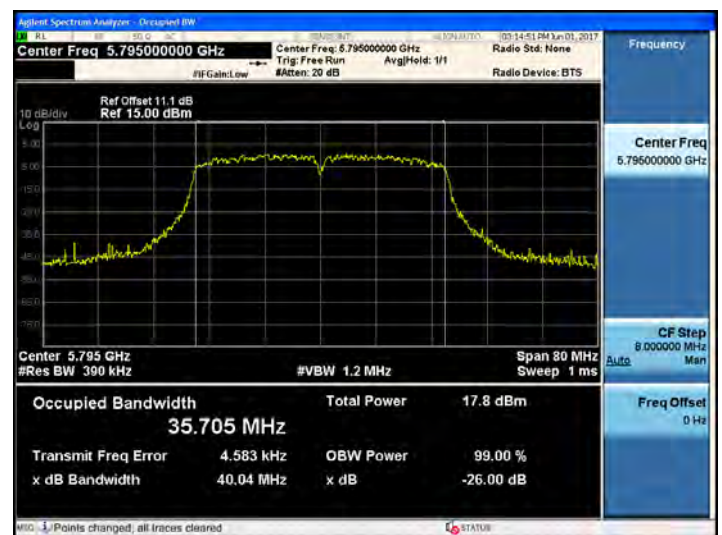
802.11ac_VHT40 UNII 2A BAND 26dB Bandwidth (CH 62)



802.11ac_VHT40 UNII 2C BAND 26dB Bandwidth(CH 134)



802.11ac_VHT40 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_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	81.94	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	82.24	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.			
5530	106	81.82	N/A	Pass
5610	122	82.53	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	81.95	N/A	Pass

Note :

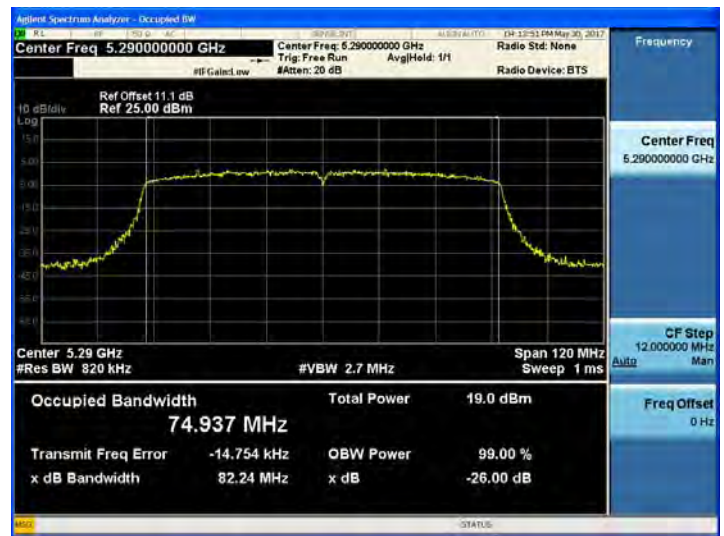
1. In order to simplify the report, attached plots were only the most wide channel.
2. DFS test channels should be defined. So, We performed the OBW test to prove that no part of the fundamental emissions of any channels belong to UNII1 and UNII3 band for DFS.

■ TEST Plot for Ant.0_802.11ac_VHT80

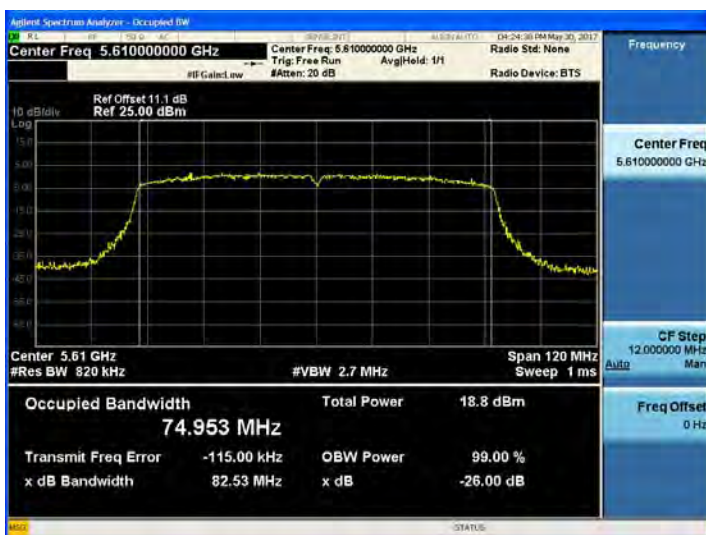
802.11ac_VHT80 UNII 1 BAND 26dB Bandwidth(CH 42)



802.11ac_VHT80 UNII 2A BAND 26dB Bandwidth(CH 58)



802.11ac_VHT80 UNII 2C BAND 26dB Bandwidth(CH 122)



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	82.23	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	82.22	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	82.00	N/A	Pass
5610	122	82.55	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	82.18	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

802.11ac_VHT80 UNII 1 BAND 26dB Bandwidth(CH 42)



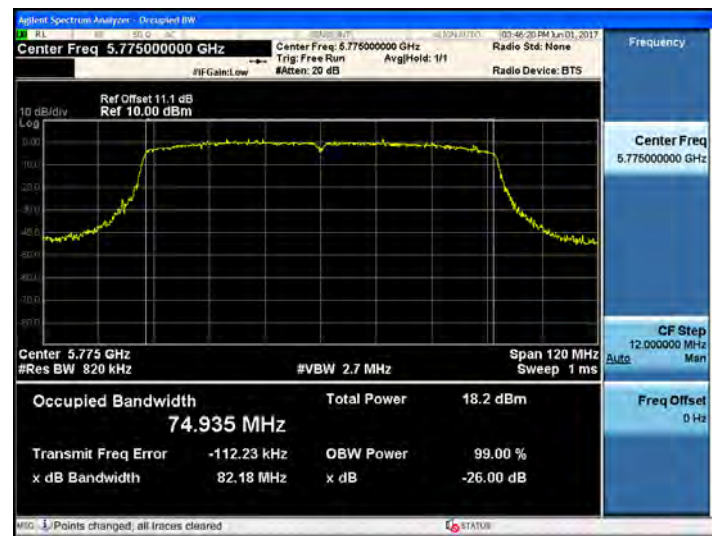
802.11ac_VHT80 UNII 2A BAND 26dB Bandwidth(CH 58)



802.11ac_VHT80 UNII 2C BAND 26dB Bandwidth(CH 122)



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.

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	15.04	0.5	Pass
5785	157	14.44	0.5	Pass
5825	165	15.20	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_HT20

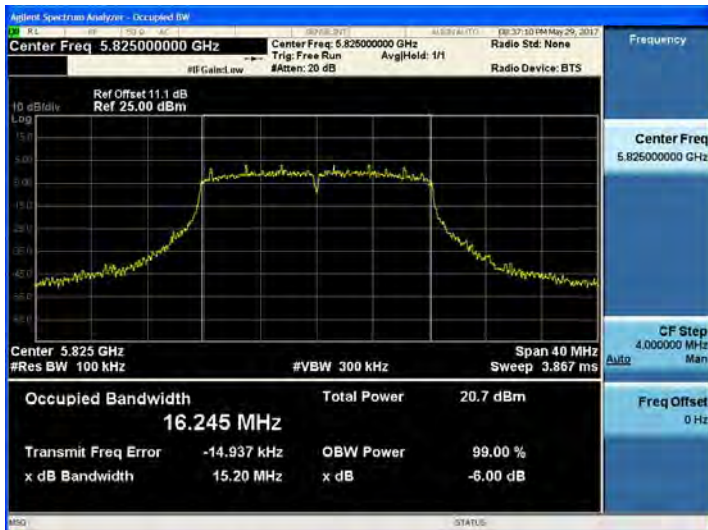
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	15.10	0.5	Pass
5785	157	15.03	0.5	Pass
5825	165	15.14	0.5	Pass

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	15.13	0.5	Pass
5785	157	15.16	0.5	Pass
5825	165	14.15	0.5	Pass

TEST PlotS for 802.11a/n_HT20/ac_VHT20

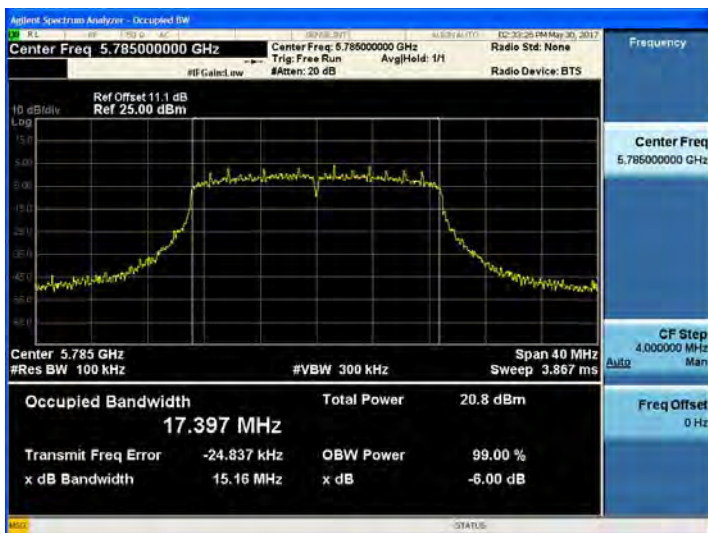
802.11a UNII 3 BAND 6dB Bandwidth (CH.165)



802.11n_HT20 UNII 3 BAND 6dB Bandwidth(CH.165)



802.11ac_VHT20 UNII 3 BAND 6dB Bandwidth(CH.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	15.39	0.5	Pass
5785	157	15.08	0.5	Pass
5825	165	15.17	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	15.16	0.5	Pass
5785	157	15.17	0.5	Pass
5825	165	15.13	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11ac_VHT20

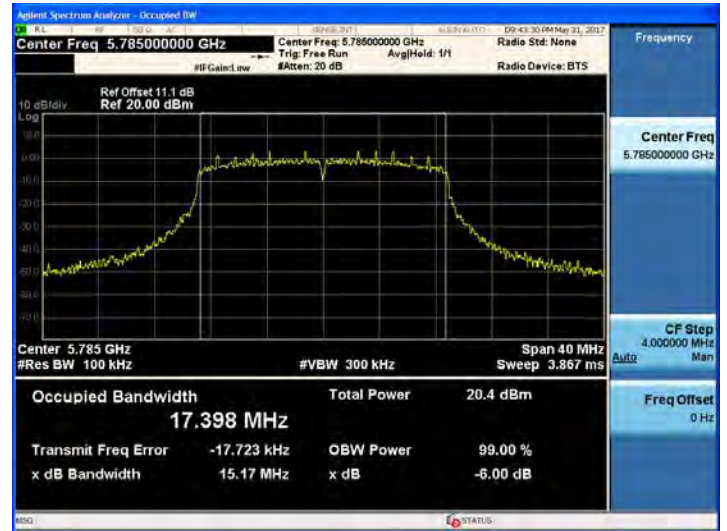
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	15.16	0.5	Pass
5785	157	14.42	0.5	Pass
5825	165	15.41	0.5	Pass

TEST PlotS for Ant.1_802.11a/n_HT20/ac_VHT20

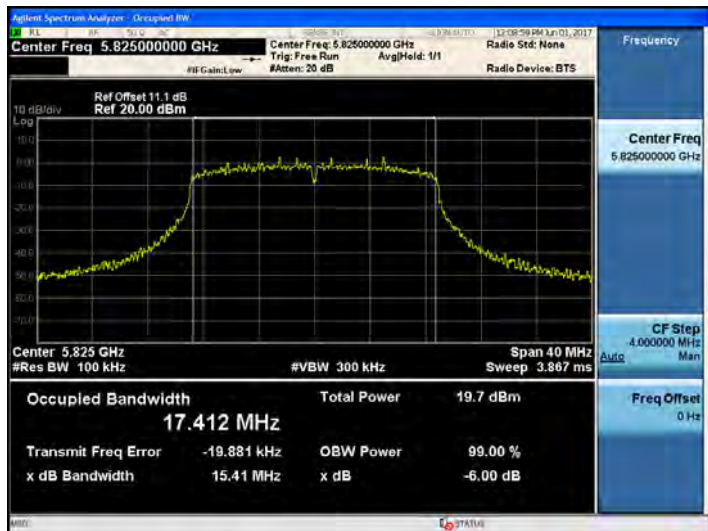
802.11a UNII 3 BAND 6dB Bandwidth (CH.149)



802.11n_HT20 UNII 3 BAND 6dB Bandwidth(CH.157)



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

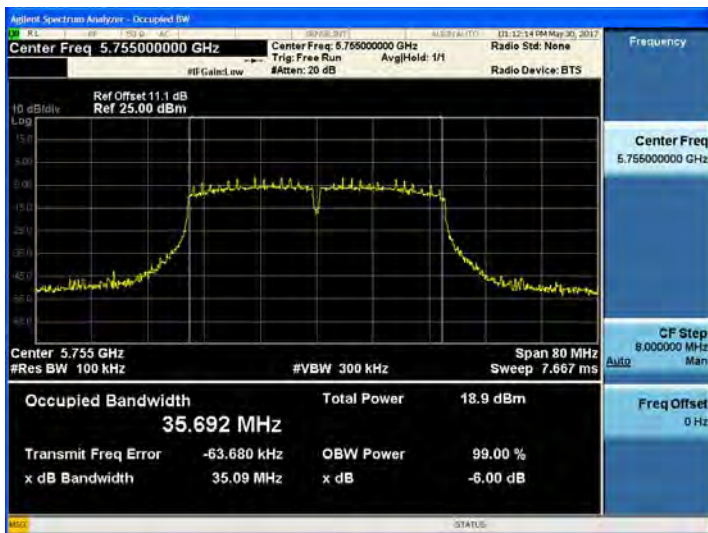
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.09	0.5	Pass
5795	159	33.85	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11ac_VHT40

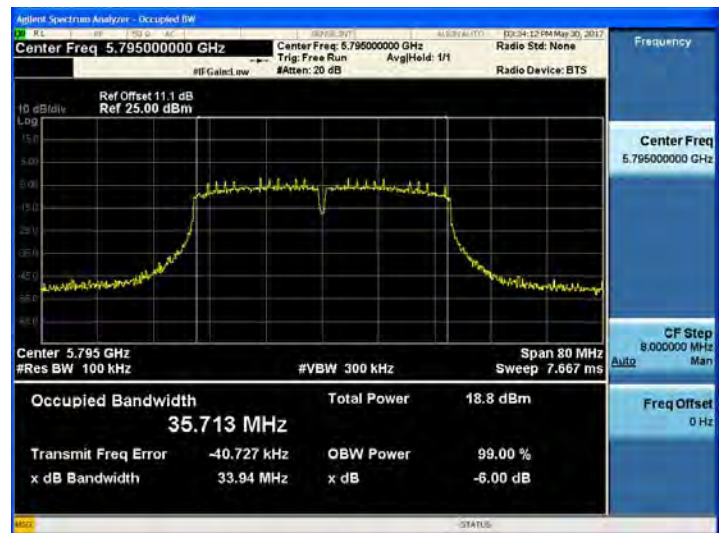
802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	32.69	0.5	Pass
5795	159	33.94	0.5	Pass

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

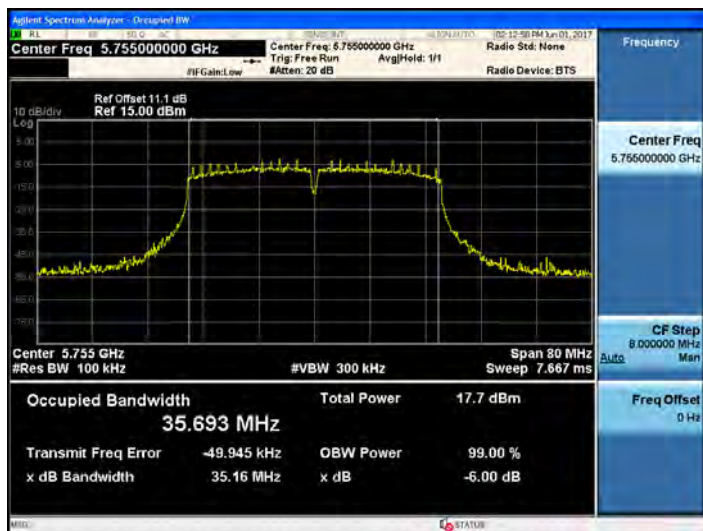
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.16	0.5	Pass
5795	159	35.13	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11ac_VHT40

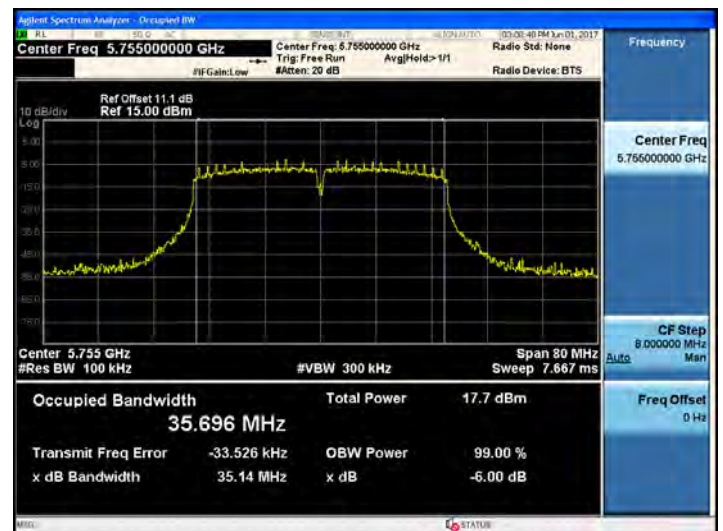
802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.14	0.5	Pass
5795	159	35.13	0.5	Pass

TEST Plots for Ant.1_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.151)

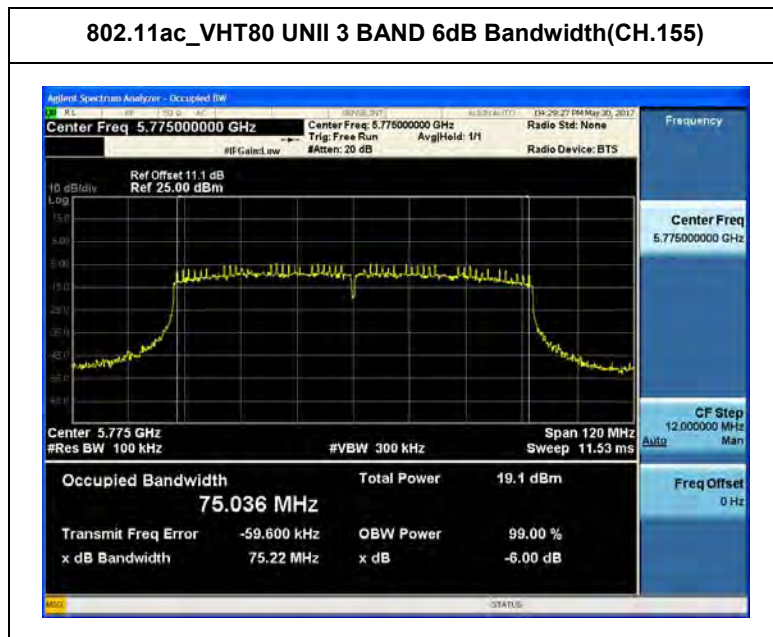


TEST RESULTS Ant.0_for 802.11ac_VHT80

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	75.22	0.5	Pass

TEST Plots for Ant.0_802.11ac_VHT80



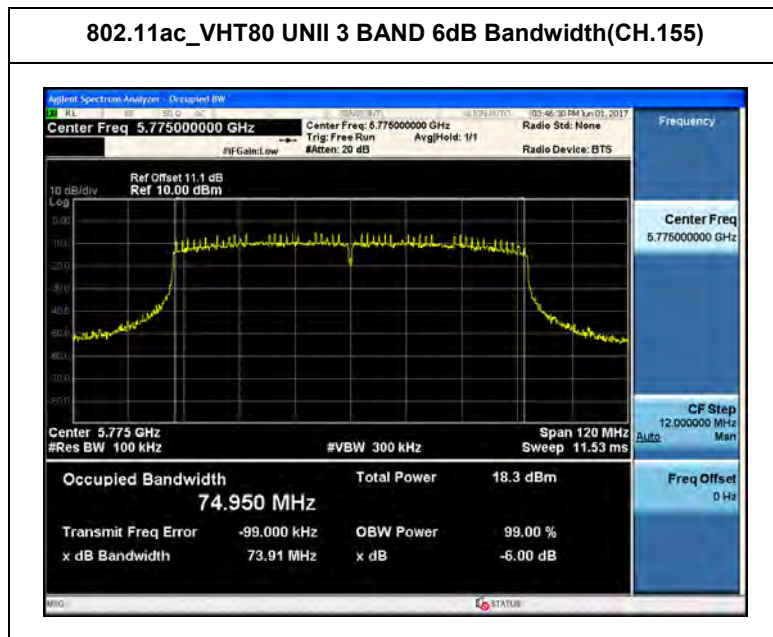
Note : In order to simplify the report, attached plots were only the most wide channel.

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	73.91	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	-1.30	23.98
			Ant 1	-4.10	23.98
	UNII 2A		Ant 0	-2.40	23.98
			Ant 1	-3.50	23.98
	UNII 2C		Ant 0	0.30	23.98
			Ant 1	1.30	23.98
	UNII 3		Ant 0	0.50	30.00
			Ant 1	1.30	30.00
MIMO(CDD)	UNII 1	802.11a/n/ac	Ant 0 & 1	0.42	23.98
	UNII 2A			0.08	23.98
	UNII 2C			3.82	23.98
	UNII 3			3.92	30.00

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

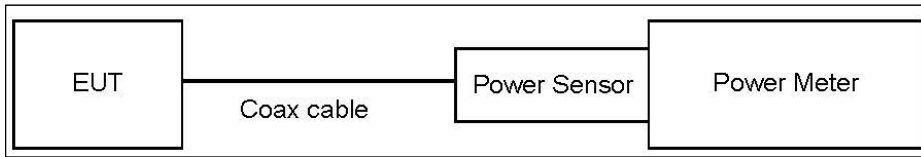
$$\text{Directional gain} = 10 \cdot \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N] \text{ dBi (CDD, 802.11a/n/ac)}$$

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

(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.

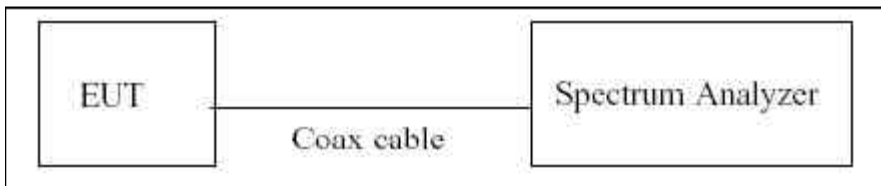
Note :

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 $\geq$ 3 MHz.
5. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
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	13.56	0.22	13.78	23.98
		9	13.51	0.32	13.83	23.98
		12	13.40	0.42	13.82	23.98
		18	13.46	0.60	14.06	23.98
		24	13.27	0.79	14.05	23.98
		36	13.02	1.10	14.12	23.98
		48	12.72	1.41	14.13	23.98
		54	12.62	1.53	14.15	23.98
5200	40	6	13.97	0.22	14.19	23.98
		9	13.90	0.32	14.22	23.98
		12	13.82	0.42	14.24	23.98
		18	13.69	0.60	14.29	23.98
		24	13.62	0.79	14.41	23.98
		36	13.28	1.10	14.39	23.98
		48	12.90	1.41	14.31	23.98
		54	12.87	1.53	14.40	23.98
5240	48	6	13.96	0.22	14.18	23.98
		9	13.87	0.32	14.19	23.98
		12	13.78	0.42	14.20	23.98
		18	13.78	0.60	14.37	23.98
		24	13.26	0.79	14.05	23.98
		36	12.95	1.10	14.05	23.98
		48	12.71	1.41	14.12	23.98
		54	12.51	1.53	14.04	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	13.55	0.22	13.77	23.98
		9	13.44	0.31	13.75	23.98
		12	13.40	0.42	13.82	23.98
		18	13.42	0.60	14.02	23.98
		24	13.19	0.78	13.97	23.98
		36	12.87	1.11	13.98	23.98
		48	12.59	1.40	13.99	23.98
		54	12.44	1.54	13.98	23.98
5200	40	6	13.68	0.22	13.89	23.98
		9	13.61	0.31	13.92	23.98
		12	13.49	0.42	13.91	23.98
		18	13.47	0.60	14.07	23.98
		24	13.30	0.78	14.08	23.98
		36	12.98	1.11	14.09	23.98
		48	12.64	1.40	14.04	23.98
		54	12.62	1.54	14.16	23.98
5240	48	6	13.89	0.22	14.11	23.98
		9	13.74	0.31	14.05	23.98
		12	13.73	0.42	14.15	23.98
		18	13.65	0.60	14.25	23.98
		24	13.53	0.78	14.31	23.98
		36	13.17	1.11	14.28	23.98
		48	12.81	1.40	14.21	23.98
		54	12.74	1.54	14.28	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	16.79	23.98
		9	16.80	23.98
		12	16.83	23.98
		18	17.05	23.98
		24	17.02	23.98
		36	17.06	23.98
		48	17.07	23.98
		54	17.08	23.98
5200	40	6	17.05	23.98
		9	17.08	23.98
		12	17.09	23.98
		18	17.19	23.98
		24	17.26	23.98
		36	17.25	23.98
		48	17.19	23.98
		54	17.29	23.98
5240	48	6	17.16	23.98
		9	17.13	23.98
		12	17.19	23.98
		18	17.32	23.98
		24	17.19	23.98
		36	17.18	23.98
		48	17.18	23.98
		54	17.17	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	13.69	0.22	13.91	23.98
		9	13.52	0.32	13.84	23.98
		12	13.50	0.42	13.92	23.98
		18	13.41	0.60	14.01	23.98
		24	13.45	0.79	14.24	23.98
		36	13.06	1.10	14.17	23.98
		48	12.80	1.41	14.20	23.98
		54	12.70	1.53	14.23	23.98
5300	60	6	13.61	0.22	13.83	23.98
		9	13.52	0.32	13.83	23.98
		12	13.39	0.42	13.81	23.98
		18	13.44	0.60	14.04	23.98
		24	13.35	0.79	14.13	23.98
		36	12.99	1.10	14.09	23.98
		48	12.77	1.41	14.18	23.98
		54	12.60	1.53	14.13	23.98
5320	64	6	13.80	0.22	14.01	23.98
		9	13.60	0.32	13.92	23.98
		12	13.55	0.42	13.97	23.98
		18	13.45	0.60	14.05	23.98
		24	13.42	0.79	14.20	23.98
		36	13.09	1.10	14.19	23.98
		48	12.82	1.41	14.23	23.98
		54	12.66	1.53	14.19	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	13.79	0.22	14.01	23.98
		9	13.69	0.31	14.00	23.98
		12	13.66	0.42	14.08	23.98
		18	13.63	0.60	14.23	23.98
		24	13.49	0.78	14.27	23.98
		36	13.11	1.11	14.22	23.98
		48	12.88	1.40	14.28	23.98
		54	12.71	1.54	14.25	23.98
5300	60	6	13.74	0.22	13.95	23.98
		9	13.63	0.31	13.94	23.98
		12	13.49	0.42	13.91	23.98
		18	13.49	0.60	14.09	23.98
		24	13.34	0.78	14.13	23.98
		36	12.99	1.11	14.10	23.98
		48	12.80	1.40	14.20	23.98
		54	12.62	1.54	14.16	23.98
5320	64	6	13.76	0.22	13.98	23.98
		9	13.64	0.31	13.95	23.98
		12	13.54	0.42	13.97	23.98
		18	13.54	0.60	14.14	23.98
		24	13.44	0.78	14.22	23.98
		36	13.08	1.11	14.19	23.98
		48	12.89	1.40	14.29	23.98
		54	12.65	1.54	14.19	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	16.97	23.98
		9	16.93	23.98
		12	17.01	23.98
		18	17.13	23.98
		24	17.27	23.98
		36	17.21	23.98
		48	17.25	23.98
		54	17.25	23.98
5300	60	6	16.90	23.98
		9	16.90	23.98
		12	16.87	23.98
		18	17.08	23.98
		24	17.14	23.98
		36	17.11	23.98
		48	17.20	23.98
		54	17.16	23.98
5320	64	6	17.01	23.98
		9	16.95	23.98
		12	16.98	23.98
		18	17.11	23.98
		24	17.22	23.98
		36	17.20	23.98
		48	17.27	23.98
		54	17.20	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	13.85	0.22	14.07	23.98
		9	13.83	0.32	14.15	23.98
		12	13.68	0.42	14.10	23.98
		18	13.66	0.60	14.26	23.98
		24	13.55	0.79	14.33	23.98
		36	13.18	1.10	14.28	23.98
		48	12.98	1.41	14.39	23.98
		54	12.82	1.53	14.35	23.98
5600	120	6	13.63	0.22	13.84	23.98
		9	13.52	0.32	13.84	23.98
		12	13.42	0.42	13.84	23.98
		18	13.45	0.60	14.05	23.98
		24	13.36	0.79	14.15	23.98
		36	13.03	1.10	14.13	23.98
		48	12.69	1.41	14.10	23.98
		54	12.59	1.53	14.12	23.98
5700	140	6	13.61	0.22	13.83	23.98
		9	13.62	0.32	13.94	23.98
		12	13.52	0.42	13.94	23.98
		18	13.51	0.60	14.11	23.98
		24	13.34	0.79	14.13	23.98
		36	13.01	1.10	14.11	23.98
		48	12.76	1.41	14.17	23.98
		54	12.62	1.53	14.15	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	13.32	0.22	13.53	23.98
		9	13.18	0.31	13.49	23.98
		12	13.12	0.42	13.54	23.98
		18	13.12	0.60	13.72	23.98
		24	13.00	0.78	13.78	23.98
		36	12.59	1.11	13.70	23.98
		48	12.40	1.40	13.80	23.98
		54	12.23	1.54	13.77	23.98
5600	120	6	13.10	0.22	13.32	23.98
		9	13.03	0.31	13.34	23.98
		12	12.95	0.42	13.37	23.98
		18	12.96	0.60	13.56	23.98
		24	12.84	0.78	13.63	23.98
		36	12.44	1.11	13.55	23.98
		48	12.18	1.40	13.58	23.98
		54	12.08	1.54	13.62	23.98
5700	140	6	13.16	0.22	13.38	23.98
		9	13.09	0.31	13.40	23.98
		12	12.99	0.42	13.41	23.98
		18	12.97	0.60	13.57	23.98
		24	12.78	0.78	13.56	23.98
		36	12.50	1.11	13.61	23.98
		48	12.20	1.40	13.60	23.98
		54	12.10	1.54	13.64	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	16.81	23.98
		9	16.84	23.98
		12	16.83	23.98
		18	17.00	23.98
		24	17.07	23.98
		36	17.01	23.98
		48	17.11	23.98
		54	17.08	23.98
5600	120	6	16.59	23.98
		9	16.60	23.98
		12	16.62	23.98
		18	16.82	23.98
		24	16.90	23.98
		36	16.86	23.98
		48	16.85	23.98
		54	16.88	23.98
5700	140	6	16.62	23.98
		9	16.68	23.98
		12	16.69	23.98
		18	16.85	23.98
		24	16.86	23.98
		36	16.87	23.98
		48	16.90	23.98
		54	16.91	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	13.82	0.22	14.04	30
		9	13.62	0.32	13.94	30
		12	13.62	0.42	14.04	30
		18	13.61	0.60	14.20	30
		24	13.54	0.79	14.32	30
		36	13.19	1.10	14.30	30
		48	12.88	1.41	14.29	30
		54	12.71	1.53	14.24	30
5785	157	6	13.70	0.22	13.92	30
		9	13.67	0.32	13.99	30
		12	13.67	0.42	14.09	30
		18	13.46	0.60	14.06	30
		24	13.45	0.79	14.23	30
		36	13.14	1.10	14.25	30
		48	12.89	1.41	14.29	30
		54	12.68	1.53	14.21	30
5825	165	6	13.52	0.22	13.74	30
		9	13.39	0.32	13.71	30
		12	13.36	0.42	13.79	30
		18	13.29	0.60	13.89	30
		24	13.26	0.79	14.05	30
		36	12.97	1.10	14.08	30
		48	12.67	1.41	14.08	30
		54	12.54	1.53	14.08	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	12.87	0.22	13.09	30
		9	12.73	0.31	13.03	30
		12	12.72	0.42	13.14	30
		18	12.64	0.60	13.24	30
		24	12.53	0.78	13.31	30
		36	12.19	1.11	13.30	30
		48	11.93	1.40	13.33	30
		54	11.68	1.54	13.22	30
5785	157	6	13.56	0.22	13.78	30
		9	13.42	0.31	13.73	30
		12	13.33	0.42	13.75	30
		18	13.32	0.60	13.92	30
		24	13.15	0.78	13.94	30
		36	12.79	1.11	13.90	30
		48	12.59	1.40	13.99	30
		54	12.50	1.54	14.04	30
5825	165	6	13.35	0.22	13.57	30
		9	13.22	0.31	13.53	30
		12	13.17	0.42	13.59	30
		18	13.13	0.60	13.73	30
		24	13.02	0.78	13.80	30
		36	12.68	1.11	13.79	30
		48	12.42	1.40	13.82	30
		54	12.24	1.54	13.78	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	16.59	30
		9	16.51	30
		12	16.61	30
		18	16.74	30
		24	16.84	30
		36	16.82	30
		48	16.83	30
		54	16.76	30
5785	157	6	16.86	30
		9	16.87	30
		12	16.93	30
		18	17.00	30
		24	17.10	30
		36	17.09	30
		48	17.15	30
		54	17.14	30
5825	165	6	16.67	30
		9	16.63	30
		12	16.70	30
		18	16.82	30
		24	16.94	30
		36	16.95	30
		48	16.96	30
		54	16.94	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	13.68	0.24	13.92	23.98
		1	13.35	0.44	13.78	23.98
		2	13.38	0.64	14.02	23.98
		3	13.51	0.82	14.34	23.98
		4	13.17	1.12	14.30	23.98
		5	12.84	1.41	14.25	23.98
		6	12.72	1.53	14.25	23.98
		7	12.56	1.64	14.20	23.98
5200	40	0	13.54	0.24	13.78	23.98
		1	13.30	0.44	13.73	23.98
		2	13.33	0.64	13.97	23.98
		3	13.44	0.82	14.26	23.98
		4	13.19	1.12	14.31	23.98
		5	12.93	1.41	14.34	23.98
		6	12.81	1.53	14.34	23.98
		7	12.64	1.64	14.28	23.98
5240	48	0	13.61	0.24	13.85	23.98
		1	13.28	0.44	13.72	23.98
		2	13.35	0.64	13.99	23.98
		3	13.42	0.82	14.24	23.98
		4	13.11	1.12	14.23	23.98
		5	12.86	1.41	14.27	23.98
		6	12.71	1.53	14.23	23.98
		7	12.58	1.64	14.23	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	13.37	0.23	13.60	23.98
		1	13.09	0.47	13.56	23.98
		2	13.13	0.63	13.76	23.98
		3	13.31	0.81	14.12	23.98
		4	12.97	1.12	14.10	23.98
		5	12.68	1.41	14.09	23.98
		6	12.55	1.60	14.15	23.98
		7	12.36	1.64	14.00	23.98
5200	40	0	13.49	0.23	13.72	23.98
		1	13.17	0.47	13.64	23.98
		2	13.24	0.63	13.87	23.98
		3	13.30	0.81	14.11	23.98
		4	13.04	1.12	14.17	23.98
		5	12.70	1.41	14.11	23.98
		6	12.76	1.60	14.36	23.98
		7	12.57	1.64	14.21	23.98
5240	48	0	13.72	0.23	13.95	23.98
		1	13.46	0.47	13.92	23.98
		2	13.41	0.63	14.04	23.98
		3	13.63	0.81	14.44	23.98
		4	13.26	1.12	14.38	23.98
		5	12.99	1.41	14.39	23.98
		6	12.95	1.60	14.54	23.98
		7	12.68	1.64	14.32	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	16.77	23.98
		1	16.68	23.98
		2	16.90	23.98
		3	17.24	23.98
		4	17.21	23.98
		5	17.18	23.98
		6	17.21	23.98
		7	17.11	23.98
5200	40	0	16.76	23.98
		1	16.70	23.98
		2	16.93	23.98
		3	17.20	23.98
		4	17.25	23.98
		5	17.24	23.98
		6	17.36	23.98
		7	17.26	23.98
5240	48	0	16.91	23.98
		1	16.83	23.98
		2	17.03	23.98
		3	17.35	23.98
		4	17.32	23.98
		5	17.34	23.98
		6	17.40	23.98
		7	17.29	23.98

Ant.0

802.11n_HT20 (UNII 2A)

TEST RESULTS

Conducted Output Power Measurements (802.11n_HT20 Mode: 5260~5320)

802.11a 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	13.45	0.24	13.69	23.98
		1	13.12	0.44	13.55	23.98
		2	13.14	0.64	13.78	23.98
		3	13.38	0.82	14.20	23.98
		4	12.98	1.12	14.10	23.98
		5	12.75	1.41	14.16	23.98
		6	12.65	1.53	14.18	23.98
		7	12.45	1.64	14.09	23.98
5300	60	0	13.38	0.24	13.62	23.98
		1	13.05	0.44	13.49	23.98
		2	13.13	0.64	13.77	23.98
		3	13.29	0.82	14.11	23.98
		4	12.92	1.12	14.05	23.98
		5	12.65	1.41	14.06	23.98
		6	12.55	1.53	14.08	23.98
		7	12.38	1.64	14.02	23.98
5320	64	0	13.41	0.24	13.65	23.98
		1	13.13	0.44	13.57	23.98
		2	13.14	0.64	13.78	23.98
		3	13.27	0.82	14.10	23.98
		4	13.01	1.12	14.14	23.98
		5	12.74	1.41	14.15	23.98
		6	12.73	1.53	14.26	23.98
		7	12.48	1.64	14.12	23.98

Ant.1
802.11n_HT20 (UNII 2A)
■ TEST RESULTS
Conducted Output Power Measurements (802.11n_HT20 Mode: 5260~5320)

802.11a 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	13.59	0.23	13.82	23.98
		1	13.29	0.47	13.75	23.98
		2	13.39	0.63	14.02	23.98
		3	13.54	0.81	14.35	23.98
		4	13.24	1.12	14.37	23.98
		5	12.83	1.41	14.24	23.98
		6	12.78	1.60	14.37	23.98
		7	12.58	1.64	14.22	23.98
5300	60	0	13.49	0.23	13.72	23.98
		1	13.14	0.47	13.60	23.98
		2	13.21	0.63	13.84	23.98
		3	13.41	0.81	14.23	23.98
		4	13.04	1.12	14.17	23.98
		5	12.81	1.41	14.21	23.98
		6	12.65	1.60	14.25	23.98
		7	12.38	1.64	14.03	23.98
5320	64	0	13.61	0.23	13.84	23.98
		1	13.26	0.47	13.72	23.98
		2	13.30	0.63	13.93	23.98
		3	13.48	0.81	14.29	23.98
		4	13.12	1.12	14.24	23.98
		5	12.81	1.41	14.22	23.98
		6	12.81	1.60	14.41	23.98
		7	12.58	1.64	14.22	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		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5260	52	0	16.77	23.98
		1	16.66	23.98
		2	16.91	23.98
		3	17.29	23.98
		4	17.25	23.98
		5	17.21	23.98
		6	17.29	23.98
		7	17.17	23.98
5300	60	0	16.68	23.98
		1	16.56	23.98
		2	16.82	23.98
		3	17.18	23.98
		4	17.12	23.98
		5	17.15	23.98
		6	17.18	23.98
		7	17.04	23.98
5320	64	0	16.76	23.98
		1	16.66	23.98
		2	16.87	23.98
		3	17.21	23.98
		4	17.20	23.98
		5	17.20	23.98
		6	17.35	23.98
		7	17.18	23.98

Ant.0

802.11n_HT20 (UNII 2C)

TEST RESULTS

Conducted Output Power Measurements (802.11n_HT20 Mode: 5500~5700)

802.11a 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	13.54	0.24	13.77	23.98
		1	13.22	0.44	13.66	23.98
		2	13.36	0.64	14.00	23.98
		3	13.47	0.82	14.29	23.98
		4	13.13	1.12	14.26	23.98
		5	12.90	1.41	14.30	23.98
		6	12.82	1.53	14.35	23.98
		7	12.66	1.64	14.31	23.98
5600	120	0	13.28	0.24	13.52	23.98
		1	13.03	0.44	13.47	23.98
		2	13.10	0.64	13.74	23.98
		3	13.25	0.82	14.08	23.98
		4	12.96	1.12	14.08	23.98
		5	12.64	1.41	14.05	23.98
		6	12.57	1.53	14.10	23.98
		7	12.40	1.64	14.04	23.98
5700	140	0	13.33	0.24	13.57	23.98
		1	13.05	0.44	13.49	23.98
		2	13.20	0.64	13.84	23.98
		3	13.30	0.82	14.13	23.98
		4	13.00	1.12	14.13	23.98
		5	12.64	1.41	14.04	23.98
		6	12.67	1.53	14.20	23.98
		7	12.49	1.64	14.14	23.98

Ant.1
802.11n_HT20 (UNII 2C)
■ TEST RESULTS
Conducted Output Power Measurements (802.11n_HT20 Mode: 5500~5700)

802.11a 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	13.09	0.23	13.32	23.98
		1	12.83	0.47	13.30	23.98
		2	12.86	0.63	13.49	23.98
		3	12.93	0.81	13.74	23.98
		4	12.67	1.12	13.79	23.98
		5	12.37	1.41	13.78	23.98
		6	12.30	1.60	13.89	23.98
		7	12.18	1.64	13.82	23.98
5600	120	0	13.07	0.23	13.30	23.98
		1	12.72	0.47	13.19	23.98
		2	12.69	0.63	13.32	23.98
		3	12.81	0.81	13.62	23.98
		4	12.58	1.12	13.70	23.98
		5	12.20	1.41	13.60	23.98
		6	12.15	1.60	13.75	23.98
		7	12.00	1.64	13.64	23.98
5700	140	0	13.00	0.23	13.23	23.98
		1	12.71	0.47	13.18	23.98
		2	12.76	0.63	13.39	23.98
		3	12.83	0.81	13.65	23.98
		4	12.53	1.12	13.65	23.98
		5	12.28	1.41	13.68	23.98
		6	12.16	1.60	13.75	23.98
		7	12.05	1.64	13.69	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		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5500	100	0	16.56	23.98
		1	16.49	23.98
		2	16.76	23.98
		3	17.03	23.98
		4	17.04	23.98
		5	17.05	23.98
		6	17.13	23.98
		7	17.08	23.98
5600	120	0	16.42	23.98
		1	16.34	23.98
		2	16.54	23.98
		3	16.86	23.98
		4	16.90	23.98
		5	16.84	23.98
		6	16.94	23.98
		7	16.85	23.98
5700	140	0	16.41	23.98
		1	16.35	23.98
		2	16.63	23.98
		3	16.90	23.98
		4	16.90	23.98
		5	16.87	23.98
		6	16.99	23.98
		7	16.93	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	13.45	0.24	13.69	30
		1	13.24	0.44	13.68	30
		2	13.23	0.64	13.87	30
		3	13.43	0.82	14.26	30
		4	13.04	1.12	14.17	30
		5	12.71	1.41	14.11	30
		6	12.73	1.53	14.26	30
		7	12.54	1.64	14.19	30
5785	157	0	13.47	0.24	13.71	30
		1	13.20	0.44	13.64	30
		2	13.14	0.64	13.78	30
		3	13.35	0.82	14.17	30
		4	13.06	1.12	14.19	30
		5	12.78	1.41	14.19	30
		6	12.68	1.53	14.21	30
		7	12.56	1.64	14.20	30
5825	165	0	13.23	0.24	13.47	30
		1	12.97	0.44	13.41	30
		2	12.94	0.64	13.58	30
		3	13.24	0.82	14.06	30
		4	12.83	1.12	13.95	30
		5	12.59	1.41	13.99	30
		6	12.44	1.53	13.97	30
		7	12.34	1.64	13.99	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	12.74	0.23	12.97	30
		1	12.45	0.47	12.91	30
		2	12.43	0.63	13.06	30
		3	12.57	0.81	13.38	30
		4	12.23	1.12	13.35	30
		5	11.92	1.41	13.33	30
		6	11.94	1.60	13.54	30
		7	11.71	1.64	13.35	30
5785	157	0	13.36	0.23	13.59	30
		1	13.08	0.47	13.55	30
		2	13.10	0.63	13.73	30
		3	13.22	0.81	14.04	30
		4	12.89	1.12	14.01	30
		5	12.67	1.41	14.07	30
		6	12.54	1.60	14.14	30
		7	12.54	1.64	14.19	30
5825	165	0	13.09	0.23	13.32	30
		1	12.80	0.47	13.27	30
		2	12.83	0.63	13.46	30
		3	13.01	0.81	13.82	30
		4	12.67	1.12	13.79	30
		5	12.38	1.41	13.79	30
		6	12.32	1.60	13.92	30
		7	12.12	1.64	13.76	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	16.35	30
		1	16.31	30
		2	16.48	30
		3	16.84	30
		4	16.78	30
		5	16.74	30
		6	16.92	30
		7	16.79	30
5785	157	0	16.66	30
		1	16.61	30
		2	16.77	30
		3	17.12	30
		4	17.11	30
		5	17.14	30
		6	17.19	30
		7	17.21	30
5825	165	0	16.41	30
		1	16.35	30
		2	16.53	30
		3	16.95	30
		4	16.88	30
		5	16.90	30
		6	16.96	30
		7	16.89	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	13.47	0.24	13.71	23.98
		1	13.22	0.44	13.66	23.98
		2	13.18	0.63	13.81	23.98
		3	13.32	0.81	14.13	23.98
		4	13.06	1.11	14.17	23.98
		5	12.75	1.38	14.13	23.98
		6	12.68	1.50	14.18	23.98
		7	12.55	1.62	14.17	23.98
		8	12.41	1.85	14.26	23.98
5200	40	0	13.31	0.24	13.55	23.98
		1	13.04	0.44	13.48	23.98
		2	13.08	0.63	13.71	23.98
		3	13.22	0.81	14.03	23.98
		4	12.87	1.11	13.98	23.98
		5	12.63	1.38	14.01	23.98
		6	12.53	1.50	14.03	23.98
		7	12.35	1.62	13.97	23.98
		8	12.21	1.85	14.06	23.98
5240	48	0	13.49	0.24	13.73	23.98
		1	13.19	0.44	13.63	23.98
		2	13.24	0.63	13.87	23.98
		3	13.25	0.81	14.06	23.98
		4	13.02	1.11	14.13	23.98
		5	12.74	1.38	14.12	23.98
		6	12.68	1.50	14.18	23.98
		7	12.48	1.62	14.10	23.98
		8	12.28	1.85	14.13	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	13.39	0.23	13.62	23.98
		1	13.06	0.45	13.51	23.98
		2	13.07	0.63	13.69	23.98
		3	13.23	0.80	14.03	23.98
		4	12.91	1.11	14.02	23.98
		5	12.64	1.43	14.07	23.98
		6	12.53	1.51	14.04	23.98
		7	12.38	1.62	14.00	23.98
		8	12.25	1.83	14.08	23.98
5200	40	0	13.47	0.23	13.71	23.98
		1	13.21	0.45	13.66	23.98
		2	13.31	0.63	13.93	23.98
		3	13.29	0.80	14.09	23.98
		4	13.05	1.11	14.17	23.98
		5	12.79	1.43	14.21	23.98
		6	12.72	1.51	14.23	23.98
		7	12.54	1.62	14.16	23.98
		8	12.36	1.83	14.19	23.98
5240	48	0	13.66	0.23	13.90	23.98
		1	13.43	0.45	13.88	23.98
		2	13.49	0.63	14.11	23.98
		3	13.52	0.80	14.32	23.98
		4	13.26	1.11	14.38	23.98
		5	12.99	1.43	14.42	23.98
		6	12.87	1.51	14.38	23.98
		7	12.60	1.62	14.22	23.98
		8	12.56	1.83	14.39	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	16.68	23.98
		1	16.60	23.98
		2	16.76	23.98
		3	17.09	23.98
		4	17.11	23.98
		5	17.11	23.98
		6	17.12	23.98
		7	17.10	23.98
		8	17.18	23.98
5200	40	0	16.64	23.98
		1	16.58	23.98
		2	16.83	23.98
		3	17.07	23.98
		4	17.09	23.98
		5	17.12	23.98
		6	17.14	23.98
		7	17.08	23.98
		8	17.14	23.98
5240	48	0	16.83	23.98
		1	16.77	23.98
		2	17.00	23.98
		3	17.20	23.98
		4	17.27	23.98
		5	17.28	23.98
		6	17.29	23.98
		7	17.17	23.98
		8	17.27	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	13.34	0.24	13.58	23.98
		1	13.08	0.44	13.52	23.98
		2	13.16	0.63	13.79	23.98
		3	13.33	0.81	14.14	23.98
		4	12.96	1.11	14.07	23.98
		5	12.74	1.38	14.13	23.98
		6	12.68	1.50	14.18	23.98
		7	12.49	1.62	14.11	23.98
		8	12.27	1.85	14.13	23.98
5300	60	0	13.63	0.24	13.87	23.98
		1	13.31	0.44	13.74	23.98
		2	13.30	0.63	13.93	23.98
		3	13.46	0.81	14.26	23.98
		4	13.11	1.11	14.22	23.98
		5	12.90	1.38	14.28	23.98
		6	12.68	1.50	14.18	23.98
		7	12.62	1.62	14.24	23.98
		8	12.53	1.85	14.39	23.98
5320	64	0	13.35	0.24	13.59	23.98
		1	13.16	0.44	13.60	23.98
		2	13.07	0.63	13.70	23.98
		3	13.20	0.81	14.01	23.98
		4	13.11	1.11	14.22	23.98
		5	12.86	1.38	14.24	23.98
		6	12.74	1.50	14.24	23.98
		7	12.60	1.62	14.22	23.98
		8	12.46	1.85	14.31	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	13.68	0.23	13.92	23.98
		1	13.33	0.45	13.79	23.98
		2	13.26	0.63	13.89	23.98
		3	13.47	0.80	14.27	23.98
		4	13.19	1.11	14.30	23.98
		5	12.98	1.43	14.41	23.98
		6	12.81	1.51	14.32	23.98
		7	12.68	1.62	14.30	23.98
		8	12.49	1.83	14.32	23.98
5300	60	0	13.50	0.23	13.74	23.98
		1	13.24	0.45	13.70	23.98
		2	13.23	0.63	13.85	23.98
		3	13.33	0.80	14.13	23.98
		4	13.09	1.11	14.20	23.98
		5	12.83	1.43	14.26	23.98
		6	12.74	1.51	14.25	23.98
		7	12.68	1.62	14.30	23.98
		8	12.37	1.83	14.20	23.98
5320	64	0	13.67	0.23	13.90	23.98
		1	13.33	0.45	13.78	23.98
		2	13.37	0.63	13.99	23.98
		3	13.47	0.80	14.27	23.98
		4	13.19	1.11	14.31	23.98
		5	12.91	1.43	14.34	23.98
		6	12.82	1.51	14.33	23.98
		7	12.65	1.62	14.27	23.98
		8	12.48	1.83	14.31	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		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5260	52	0	16.76	23.98
		1	16.67	23.98
		2	16.85	23.98
		3	17.22	23.98
		4	17.20	23.98
		5	17.28	23.98
		6	17.26	23.98
		7	17.22	23.98
		8	17.24	23.98
5300	60	0	16.82	23.98
		1	16.73	23.98
		2	16.90	23.98
		3	17.21	23.98
		4	17.22	23.98
		5	17.28	23.98
		6	17.23	23.98
		7	17.28	23.98
		8	17.31	23.98
5320	64	0	16.76	23.98
		1	16.70	23.98
		2	16.86	23.98
		3	17.15	23.98
		4	17.28	23.98
		5	17.30	23.98
		6	17.30	23.98
		7	17.26	23.98
		8	17.32	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	13.55	0.24	13.78	23.98
		1	13.25	0.44	13.69	23.98
		2	13.29	0.63	13.91	23.98
		3	13.48	0.81	14.28	23.98
		4	13.19	1.11	14.31	23.98
		5	12.96	1.38	14.34	23.98
		6	12.82	1.50	14.32	23.98
		7	12.72	1.62	14.34	23.98
		8	12.43	1.85	14.29	23.98
5600	120	0	13.28	0.24	13.51	23.98
		1	13.04	0.44	13.47	23.98
		2	13.09	0.63	13.72	23.98
		3	13.28	0.81	14.08	23.98
		4	13.02	1.11	14.14	23.98
		5	12.76	1.38	14.14	23.98
		6	12.44	1.50	13.94	23.98
		7	12.43	1.62	14.05	23.98
		8	12.21	1.85	14.07	23.98
5700	140	0	13.37	0.24	13.61	23.98
		1	13.03	0.44	13.46	23.98
		2	13.12	0.63	13.74	23.98
		3	13.32	0.81	14.13	23.98
		4	12.96	1.11	14.07	23.98
		5	12.80	1.38	14.19	23.98
		6	12.65	1.50	14.15	23.98
		7	12.49	1.62	14.12	23.98
		8	12.26	1.85	14.11	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	13.14	0.23	13.37	23.98
		1	12.88	0.45	13.34	23.98
		2	12.85	0.63	13.48	23.98
		3	13.10	0.80	13.90	23.98
		4	12.76	1.11	13.87	23.98
		5	12.50	1.43	13.92	23.98
		6	12.44	1.51	13.95	23.98
		7	12.25	1.62	13.87	23.98
		8	11.99	1.83	13.82	23.98
5600	120	0	13.03	0.23	13.26	23.98
		1	12.74	0.45	13.19	23.98
		2	12.74	0.63	13.37	23.98
		3	12.90	0.80	13.70	23.98
		4	12.59	1.11	13.70	23.98
		5	12.35	1.43	13.77	23.98
		6	12.24	1.51	13.75	23.98
		7	12.07	1.62	13.69	23.98
		8	11.78	1.83	13.61	23.98
5700	140	0	13.01	0.23	13.24	23.98
		1	12.73	0.45	13.18	23.98
		2	12.81	0.63	13.43	23.98
		3	12.99	0.80	13.79	23.98
		4	12.59	1.11	13.70	23.98
		5	12.35	1.43	13.77	23.98
		6	12.25	1.51	13.76	23.98
		7	12.11	1.62	13.72	23.98
		8	11.95	1.83	13.78	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	16.59	23.98
		1	16.53	23.98
		2	16.71	23.98
		3	17.10	23.98
		4	17.10	23.98
		5	17.14	23.98
		6	17.15	23.98
		7	17.12	23.98
		8	17.07	23.98
5600	120	0	16.40	23.98
		1	16.34	23.98
		2	16.56	23.98
		3	16.90	23.98
		4	16.93	23.98
		5	16.97	23.98
		6	16.86	23.98
		7	16.88	23.98
		8	16.85	23.98
5700	140	0	16.44	23.98
		1	16.33	23.98
		2	16.60	23.98
		3	16.97	23.98
		4	16.90	23.98
		5	16.99	23.98
		6	16.97	23.98
		7	16.93	23.98
		8	16.96	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	13.56	0.24	13.80	30
		1	13.21	0.44	13.65	30
		2	13.24	0.63	13.86	30
		3	13.42	0.81	14.22	30
		4	13.12	1.11	14.24	30
		5	12.90	1.38	14.28	30
		6	12.76	1.50	14.26	30
		7	12.62	1.62	14.24	30
		8	12.36	1.85	14.21	30
5785	157	0	13.47	0.24	13.71	30
		1	13.12	0.44	13.56	30
		2	13.18	0.63	13.80	30
		3	13.35	0.81	14.16	30
		4	13.07	1.11	14.18	30
		5	12.83	1.38	14.21	30
		6	12.63	1.50	14.13	30
		7	12.59	1.62	14.21	30
		8	12.32	1.85	14.17	30
5825	165	0	13.62	0.24	13.85	30
		1	13.33	0.44	13.77	30
		2	13.42	0.63	14.04	30
		3	13.47	0.81	14.27	30
		4	13.15	1.11	14.27	30
		5	12.94	1.38	14.32	30
		6	12.81	1.50	14.32	30
		7	12.66	1.62	14.28	30
		8	12.31	1.85	14.16	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	12.73	0.23	12.96	30
		1	12.43	0.45	12.88	30
		2	12.48	0.63	13.11	30
		3	12.54	0.80	13.34	30
		4	12.29	1.11	13.40	30
		5	12.03	1.43	13.46	30
		6	11.99	1.51	13.50	30
		7	11.83	1.62	13.45	30
		8	11.55	1.83	13.38	30
5785	157	0	13.36	0.23	13.60	30
		1	13.10	0.45	13.55	30
		2	13.21	0.63	13.83	30
		3	13.26	0.80	14.06	30
		4	12.95	1.11	14.06	30
		5	12.70	1.43	14.13	30
		6	12.63	1.51	14.14	30
		7	12.48	1.62	14.10	30
		8	12.23	1.83	14.06	30
5825	165	0	13.09	0.23	13.32	30
		1	12.83	0.45	13.28	30
		2	12.83	0.63	13.46	30
		3	13.01	0.80	13.81	30
		4	12.68	1.11	13.79	30
		5	12.43	1.43	13.86	30
		6	12.33	1.51	13.84	30
		7	12.15	1.62	13.77	30
		8	11.96	1.83	13.79	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	16.40	30
		1	16.28	30
		2	16.50	30
		3	16.80	30
		4	16.84	30
		5	16.89	30
		6	16.90	30
		7	16.86	30
		8	16.82	30
5785	157	0	16.67	30
		1	16.57	30
		2	16.83	30
		3	17.12	30
		4	17.13	30
		5	17.18	30
		6	17.15	30
		7	17.17	30
		8	17.13	30
5825	165	0	16.60	30
		1	16.54	30
		2	16.77	30
		3	17.05	30
		4	17.04	30
		5	17.10	30
		6	17.10	30
		7	17.04	30
		8	16.99	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	10.57	0.47	11.04	23.98
		1	10.18	0.84	11.01	23.98
		2	9.85	1.16	11.01	23.98
		3	9.49	1.44	10.94	23.98
		4	9.09	1.92	11.02	23.98
		5	8.67	2.26	10.93	23.98
		6	8.58	2.43	11.01	23.98
		7	8.37	2.59	10.95	23.98
5230	46	0	10.66	0.47	11.14	23.98
		1	10.33	0.84	11.17	23.98
		2	9.97	1.16	11.13	23.98
		3	9.69	1.44	11.13	23.98
		4	9.41	1.92	11.33	23.98
		5	8.84	2.26	11.10	23.98
		6	8.71	2.43	11.14	23.98
		7	8.50	2.59	11.08	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	10.76	0.47	11.23	23.98
		1	10.38	0.84	11.21	23.98
		2	10.03	1.15	11.18	23.98
		3	9.69	1.43	11.12	23.98
		4	9.26	1.91	11.17	23.98
		5	8.91	2.27	11.18	23.98
		6	8.77	2.42	11.18	23.98
		7	8.55	2.58	11.14	23.98
5230	46	0	10.92	0.47	11.38	23.98
		1	10.52	0.84	11.36	23.98
		2	10.22	1.15	11.37	23.98
		3	9.91	1.43	11.34	23.98
		4	9.43	1.91	11.34	23.98
		5	9.02	2.27	11.29	23.98
		6	8.90	2.42	11.32	23.98
		7	8.70	2.58	11.29	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	14.15	23.98
		1	14.12	23.98
		2	14.11	23.98
		3	14.04	23.98
		4	14.11	23.98
		5	14.07	23.98
		6	14.11	23.98
		7	14.06	23.98
5230	46	0	14.27	23.98
		1	14.28	23.98
		2	14.26	23.98
		3	14.25	23.98
		4	14.35	23.98
		5	14.21	23.98
		6	14.24	23.98
		7	14.20	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	10.81	0.47	11.28	23.98
		1	10.42	0.84	11.26	23.98
		2	10.11	1.16	11.27	23.98
		3	9.74	1.44	11.19	23.98
		4	9.47	1.92	11.39	23.98
		5	8.97	2.26	11.23	23.98
		6	8.87	2.43	11.30	23.98
		7	8.67	2.59	11.25	23.98
5310	62	0	10.73	0.47	11.20	23.98
		1	10.30	0.84	11.14	23.98
		2	10.00	1.16	11.16	23.98
		3	9.66	1.44	11.10	23.98
		4	9.26	1.92	11.18	23.98
		5	8.91	2.26	11.17	23.98
		6	8.77	2.43	11.19	23.98
		7	8.58	2.59	11.16	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	10.93	0.47	11.39	23.98
		1	10.59	0.84	11.43	23.98
		2	10.25	1.15	11.40	23.98
		3	9.85	1.43	11.28	23.98
		4	9.55	1.91	11.46	23.98
		5	9.16	2.27	11.42	23.98
		6	8.96	2.42	11.38	23.98
		7	8.77	2.58	11.35	23.98
5310	62	0	10.90	0.47	11.37	23.98
		1	10.52	0.84	11.36	23.98
		2	10.18	1.15	11.33	23.98
		3	9.93	1.43	11.36	23.98
		4	9.44	1.91	11.35	23.98
		5	9.07	2.27	11.34	23.98
		6	8.93	2.42	11.35	23.98
		7	8.73	2.58	11.32	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		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5270	54	0	14.35	23.98
		1	14.36	23.98
		2	14.35	23.98
		3	14.25	23.98
		4	14.44	23.98
		5	14.34	23.98
		6	14.35	23.98
		7	14.31	23.98
5310	62	0	14.30	23.98
		1	14.26	23.98
		2	14.26	23.98
		3	14.24	23.98
		4	14.28	23.98
		5	14.27	23.98
		6	14.28	23.98
		7	14.25	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	10.69	0.47	11.16	23.98
		1	10.32	0.84	11.16	23.98
		2	9.98	1.16	11.14	23.98
		3	9.62	1.44	11.06	23.98
		4	9.32	1.92	11.24	23.98
		5	8.88	2.26	11.14	23.98
		6	8.73	2.43	11.16	23.98
		7	8.54	2.59	11.12	23.98
5590	118	0	10.75	0.47	11.23	23.98
		1	10.39	0.84	11.22	23.98
		2	10.01	1.16	11.17	23.98
		3	9.67	1.44	11.12	23.98
		4	9.39	1.92	11.31	23.98
		5	8.90	2.26	11.16	23.98
		6	8.76	2.43	11.19	23.98
		7	8.52	2.59	11.10	23.98
5670	134	0	10.66	0.47	11.14	23.98
		1	10.29	0.84	11.12	23.98
		2	9.94	1.16	11.10	23.98
		3	9.60	1.44	11.05	23.98
		4	9.38	1.92	11.30	23.98
		5	8.83	2.26	11.09	23.98
		6	8.73	2.43	11.16	23.98
		7	8.50	2.59	11.08	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	10.53	0.47	11.00	23.98
		1	10.19	0.84	11.03	23.98
		2	9.85	1.15	11.00	23.98
		3	9.82	1.43	11.25	23.98
		4	9.49	1.91	11.40	23.98
		5	8.97	2.27	11.24	23.98
		6	8.88	2.42	11.30	23.98
		7	8.72	2.58	11.30	23.98
5590	118	0	10.78	0.47	11.25	23.98
		1	10.41	0.84	11.25	23.98
		2	10.07	1.15	11.21	23.98
		3	9.71	1.43	11.14	23.98
		4	9.31	1.91	11.22	23.98
		5	8.92	2.27	11.18	23.98
		6	8.77	2.42	11.19	23.98
		7	8.58	2.58	11.16	23.98
5670	134	0	10.80	0.47	11.26	23.98
		1	10.43	0.84	11.27	23.98
		2	10.09	1.15	11.24	23.98
		3	9.78	1.43	11.21	23.98
		4	9.40	1.91	11.31	23.98
		5	8.94	2.27	11.21	23.98
		6	8.84	2.42	11.26	23.98
		7	8.63	2.58	11.21	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	14.09	23.98
		1	14.11	23.98
		2	14.08	23.98
		3	14.17	23.98
		4	14.33	23.98
		5	14.20	23.98
		6	14.24	23.98
		7	14.22	23.98
5590	118	0	14.25	23.98
		1	14.25	23.98
		2	14.20	23.98
		3	14.14	23.98
		4	14.28	23.98
		5	14.18	23.98
		6	14.20	23.98
		7	14.14	23.98
5670	134	0	14.21	23.98
		1	14.21	23.98
		2	14.18	23.98
		3	14.14	23.98
		4	14.32	23.98
		5	14.16	23.98
		6	14.22	23.98
		7	14.16	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	10.58	0.47	11.05	30
		1	10.21	0.84	11.05	30
		2	9.90	1.16	11.06	30
		3	9.58	1.44	11.02	30
		4	9.19	1.92	11.12	30
		5	8.75	2.26	11.02	30
		6	8.64	2.43	11.07	30
		7	8.37	2.59	10.96	30
5795	159	0	10.63	0.47	11.10	30
		1	10.26	0.84	11.09	30
		2	9.91	1.16	11.07	30
		3	9.63	1.44	11.08	30
		4	9.17	1.92	11.09	30
		5	8.79	2.26	11.06	30
		6	8.66	2.43	11.09	30
		7	8.48	2.59	11.07	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	10.21	0.47	10.68	30
		1	9.83	0.84	10.67	30
		2	9.49	1.15	10.64	30
		3	9.14	1.43	10.57	30
		4	8.76	1.91	10.67	30
		5	8.33	2.27	10.59	30
		6	8.24	2.42	10.66	30
		7	8.04	2.58	10.63	30
5795	159	0	10.88	0.47	11.35	30
		1	10.54	0.84	11.37	30
		2	10.20	1.15	11.35	30
		3	9.85	1.43	11.29	30
		4	9.52	1.91	11.43	30
		5	9.02	2.27	11.28	30
		6	8.95	2.42	11.37	30
		7	8.74	2.58	11.32	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	13.88	30
		1	13.87	30
		2	13.86	30
		3	13.81	30
		4	13.91	30
		5	13.82	30
		6	13.88	30
		7	13.81	30
5795	159	0	14.24	30
		1	14.24	30
		2	14.22	30
		3	14.20	30
		4	14.27	30
		5	14.18	30
		6	14.24	30
		7	14.21	30

TEST Plots for Ant.0_802.11n_HT40

802.11n_HT40 UNII 1 BAND Average Power (5190 MHz ~5230 MHz) CH 46 MCS4



802.11n_HT40 UNII 2A BAND Average Power (5270 MHz ~5310 MHz) CH 54 MCS4



802.11n_HT40 UNII 2C BAND Average Power (5510 MHz ~5670 MHz) CH 118 MCS4



802.11n_HT40 UNII 3 BAND Average Power (5755 MHz ~5795 MHz) CH 151 MCS4



TEST Plots for Ant.1_802.11n_HT40

802.11n_HT40 UNII 1 BAND Average Power (5190 MHz ~5230 MHz) CH 46 MCS0



802.11n_HT40 UNII 2A BAND Average Power (5270 MHz ~5310 MHz) CH 54 MCS4



802.11n_HT40 UNII 2C BAND Average Power (5510 MHz ~5670 MHz) CH 102 MCS4



802.11n_HT40 UNII 3 BAND Average Power (5755 MHz ~5795 MHz) CH 159 MCS4



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	10.90	0.45	11.35	23.98
		1	10.47	0.83	11.29	23.98
		2	10.14	1.15	11.29	23.98
		3	9.82	1.42	11.25	23.98
		4	9.44	1.87	11.31	23.98
		5	9.03	2.22	11.25	23.98
		6	8.90	2.40	11.30	23.98
		7	8.72	2.53	11.25	23.98
		8	8.49	2.78	11.27	23.98
		9	8.39	2.87	11.25	23.98
5230	46	0	10.95	0.45	11.40	23.98
		1	10.64	0.83	11.46	23.98
		2	10.27	1.15	11.42	23.98
		3	9.89	1.42	11.31	23.98
		4	9.50	1.87	11.37	23.98
		5	9.13	2.22	11.35	23.98
		6	9.02	2.40	11.42	23.98
		7	8.83	2.53	11.36	23.98
		8	8.66	2.78	11.45	23.98
		9	8.55	2.87	11.41	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	10.72	0.45	11.17	23.98
		1	10.44	0.86	11.30	23.98
		2	10.04	1.15	11.19	23.98
		3	9.62	1.45	11.08	23.98
		4	9.29	1.95	11.24	23.98
		5	8.96	2.31	11.27	23.98
		6	8.79	2.37	11.16	23.98
		7	8.61	2.54	11.14	23.98
		8	8.39	2.79	11.18	23.98
		9	8.27	2.95	11.22	23.98
5230	46	0	10.90	0.45	11.35	23.98
		1	10.59	0.86	11.45	23.98
		2	10.18	1.15	11.34	23.98
		3	9.86	1.45	11.32	23.98
		4	9.39	1.95	11.35	23.98
		5	9.07	2.31	11.38	23.98
		6	8.92	2.37	11.29	23.98
		7	8.72	2.54	11.26	23.98
		8	8.51	2.79	11.30	23.98
		9	8.41	2.95	11.36	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	14.27	23.98
		1	14.31	23.98
		2	14.25	23.98
		3	14.18	23.98
		4	14.29	23.98
		5	14.27	23.98
		6	14.24	23.98
		7	14.21	23.98
		8	14.24	23.98
		9	14.25	23.98
5230	46	0	14.39	23.98
		1	14.47	23.98
		2	14.39	23.98
		3	14.33	23.98
		4	14.37	23.98
		5	14.38	23.98
		6	14.37	23.98
		7	14.32	23.98
		8	14.39	23.98
		9	14.40	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	10.83	0.45	11.28	23.98
		1	10.56	0.83	11.38	23.98
		2	10.10	1.15	11.25	23.98
		3	9.80	1.42	11.22	23.98
		4	9.27	1.87	11.15	23.98
		5	9.06	2.22	11.28	23.98
		6	8.96	2.40	11.36	23.98
		7	8.77	2.53	11.30	23.98
		8	8.50	2.78	11.28	23.98
		9	8.46	2.87	11.32	23.98
5310	62	0	10.78	0.45	11.23	23.98
		1	10.43	0.83	11.26	23.98
		2	10.03	1.15	11.18	23.98
		3	9.76	1.42	11.18	23.98
		4	9.24	1.87	11.11	23.98
		5	8.94	2.22	11.16	23.98
		6	8.80	2.40	11.20	23.98
		7	8.61	2.53	11.14	23.98
		8	8.43	2.78	11.21	23.98
		9	8.38	2.87	11.25	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	10.90	0.45	11.35	23.98
		1	10.48	0.86	11.34	23.98
		2	10.21	1.15	11.37	23.98
		3	9.86	1.45	11.31	23.98
		4	9.53	1.95	11.48	23.98
		5	9.15	2.31	11.46	23.98
		6	9.03	2.37	11.40	23.98
		7	8.80	2.54	11.34	23.98
		8	8.56	2.79	11.35	23.98
		9	8.45	2.95	11.40	23.98
5310	62	0	10.84	0.45	11.29	23.98
		1	10.40	0.86	11.26	23.98
		2	10.16	1.15	11.32	23.98
		3	9.85	1.45	11.31	23.98
		4	9.44	1.95	11.39	23.98
		5	9.16	2.31	11.48	23.98
		6	8.94	2.37	11.31	23.98
		7	8.77	2.54	11.31	23.98
		8	8.55	2.79	11.35	23.98
		9	8.49	2.95	11.45	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		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5270	54	0	14.33	23.98
		1	14.37	23.98
		2	14.32	23.98
		3	14.28	23.98
		4	14.33	23.98
		5	14.38	23.98
		6	14.39	23.98
		7	14.33	23.98
		8	14.33	23.98
		9	14.37	23.98
5310	62	0	14.27	23.98
		1	14.27	23.98
		2	14.26	23.98
		3	14.26	23.98
		4	14.26	23.98
		5	14.33	23.98
		6	14.27	23.98
		7	14.24	23.98
		8	14.29	23.98
		9	14.36	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	10.70	0.45	11.16	23.98
		1	10.32	0.83	11.15	23.98
		2	10.01	1.15	11.15	23.98
		3	9.78	1.42	11.20	23.98
		4	9.27	1.87	11.14	23.98
		5	8.98	2.22	11.20	23.98
		6	8.81	2.40	11.21	23.98
		7	8.62	2.53	11.15	23.98
		8	8.40	2.78	11.18	23.98
		9	8.33	2.87	11.20	23.98
5590	118	0	10.83	0.45	11.28	23.98
		1	10.52	0.83	11.34	23.98
		2	10.08	1.15	11.23	23.98
		3	9.83	1.42	11.25	23.98
		4	9.36	1.87	11.23	23.98
		5	9.02	2.22	11.24	23.98
		6	8.82	2.40	11.22	23.98
		7	8.65	2.53	11.18	23.98
		8	8.45	2.78	11.24	23.98
		9	8.37	2.87	11.24	23.98
5670	134	0	10.76	0.45	11.21	23.98
		1	10.32	0.83	11.15	23.98
		2	10.03	1.15	11.18	23.98
		3	9.72	1.42	11.14	23.98
		4	9.30	1.87	11.17	23.98
		5	8.93	2.22	11.16	23.98
		6	8.81	2.40	11.21	23.98
		7	8.65	2.53	11.18	23.98
		8	8.50	2.78	11.28	23.98
		9	8.44	2.87	11.30	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	10.52	0.45	10.97	23.98
		1	10.15	0.86	11.01	23.98
		2	9.84	1.15	11.00	23.98
		3	9.73	1.45	11.18	23.98
		4	9.39	1.95	11.35	23.98
		5	9.14	2.31	11.45	23.98
		6	8.92	2.37	11.29	23.98
		7	8.76	2.54	11.30	23.98
		8	8.54	2.79	11.33	23.98
		9	8.48	2.95	11.43	23.98
5590	118	0	10.77	0.45	11.22	23.98
		1	10.39	0.86	11.26	23.98
		2	10.04	1.15	11.20	23.98
		3	9.71	1.45	11.16	23.98
		4	9.23	1.95	11.18	23.98
		5	8.93	2.31	11.25	23.98
		6	8.83	2.37	11.20	23.98
		7	8.61	2.54	11.15	23.98
		8	8.39	2.79	11.18	23.98
		9	8.30	2.95	11.25	23.98
5670	134	0	10.71	0.45	11.16	23.98
		1	10.35	0.86	11.21	23.98
		2	10.04	1.15	11.19	23.98
		3	9.75	1.45	11.20	23.98
		4	9.37	1.95	11.33	23.98
		5	8.96	2.31	11.27	23.98
		6	8.82	2.37	11.19	23.98
		7	8.66	2.54	11.20	23.98
		8	8.42	2.79	11.21	23.98
		9	8.35	2.95	11.30	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	14.08	23.98
		1	14.09	23.98
		2	14.09	23.98
		3	14.20	23.98
		4	14.26	23.98
		5	14.34	23.98
		6	14.26	23.98
		7	14.24	23.98
		8	14.27	23.98
		9	14.33	23.98
5590	118	0	14.26	23.98
		1	14.31	23.98
		2	14.23	23.98
		3	14.22	23.98
		4	14.22	23.98
		5	14.26	23.98
		6	14.22	23.98
		7	14.18	23.98
		8	14.22	23.98
		9	14.26	23.98
5670	134	0	14.20	23.98
		1	14.19	23.98
		2	14.20	23.98
		3	14.18	23.98
		4	14.26	23.98
		5	14.23	23.98
		6	14.21	23.98
		7	14.20	23.98
		8	14.26	23.98
		9	14.31	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	10.65	0.45	11.10	30
		1	10.34	0.83	11.17	30
		2	9.98	1.15	11.13	30
		3	9.67	1.42	11.09	30
		4	9.26	1.87	11.13	30
		5	8.91	2.22	11.13	30
		6	8.77	2.40	11.17	30
		7	8.59	2.53	11.12	30
		8	8.43	2.78	11.21	30
		9	8.35	2.87	11.21	30
5795	159	0	10.86	0.45	11.31	30
		1	10.51	0.83	11.33	30
		2	10.17	1.15	11.32	30
		3	9.86	1.42	11.28	30
		4	9.48	1.87	11.35	30
		5	9.09	2.22	11.32	30
		6	8.98	2.40	11.38	30
		7	8.74	2.53	11.27	30
		8	8.52	2.78	11.30	30
		9	8.44	2.87	11.30	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	10.24	0.45	10.69	30
		1	9.90	0.86	10.76	30
		2	9.51	1.15	10.67	30
		3	9.23	1.45	10.68	30
		4	8.81	1.95	10.76	30
		5	8.45	2.31	10.76	30
		6	8.28	2.37	10.65	30
		7	8.13	2.54	10.67	30
		8	7.90	2.79	10.69	30
		9	7.80	2.95	10.76	30
5795	159	0	10.65	0.45	11.10	30
		1	10.37	0.86	11.24	30
		2	9.97	1.15	11.12	30
		3	9.62	1.45	11.07	30
		4	9.29	1.95	11.25	30
		5	8.89	2.31	11.20	30
		6	8.70	2.37	11.07	30
		7	8.50	2.54	11.04	30
		8	8.28	2.79	11.08	30
		9	8.21	2.95	11.17	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	13.91	30
		1	13.98	30
		2	13.91	30
		3	13.90	30
		4	13.96	30
		5	13.96	30
		6	13.92	30
		7	13.91	30
		8	13.96	30
		9	14.00	30
5795	159	0	14.22	30
		1	14.30	30
		2	14.23	30
		3	14.19	30
		4	14.31	30
		5	14.27	30
		6	14.24	30
		7	14.17	30
		8	14.20	30
		9	14.25	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 118 MCS1



802.11ac_VHT40 UNII 3 BAND Average Power (5755 MHz ~5795 MHz) CH 159 MCS6



TEST Plots for Ant.1_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 MCS4



802.11ac_VHT40 UNII 2C BAND Average Power (5510 MHz ~5670 MHz) CH 102 MCS5



802.11ac_VHT40 UNII 3 BAND Average Power (5755 MHz ~5795 MHz) CH 159 MCS4



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	10.36	0.70	11.06	23.98
		1	9.84	1.23	11.07	23.98
		2	9.42	1.63	11.05	23.98
		3	9.10	1.98	11.08	23.98
		4	8.54	2.46	11.01	23.98
		5	8.20	2.90	11.11	23.98
		6	8.10	3.03	11.13	23.98
		7	8.06	3.02	11.08	23.98
		8	7.80	3.24	11.03	23.98
		9	7.67	3.57	11.24	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	10.39	0.70	11.09	23.98
		1	9.97	1.22	11.19	23.98
		2	9.62	1.64	11.26	23.98
		3	9.30	1.99	11.29	23.98
		4	8.82	2.47	11.29	23.98
		5	8.41	2.96	11.37	23.98
		6	8.29	3.01	11.30	23.98
		7	8.09	2.99	11.08	23.98
		8	8.04	3.18	11.23	23.98
		9	7.84	3.30	11.13	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	14.09	23.98
		1	14.14	23.98
		2	14.17	23.98
		3	14.20	23.98
		4	14.16	23.98
		5	14.25	23.98
		6	14.23	23.98
		7	14.09	23.98
		8	14.14	23.98
		9	14.20	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	10.38	0.70	11.08	23.98
		1	9.86	1.23	11.09	23.98
		2	9.42	1.63	11.05	23.98
		3	9.23	1.98	11.21	23.98
		4	8.63	2.46	11.10	23.98
		5	8.30	2.90	11.20	23.98
		6	8.27	3.03	11.30	23.98
		7	8.09	3.02	11.11	23.98
		8	7.84	3.24	11.08	23.98
		9	7.72	3.57	11.29	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	10.27	0.70	10.97	23.98
		1	9.86	1.22	11.09	23.98
		2	9.48	1.64	11.12	23.98
		3	9.21	1.99	11.20	23.98
		4	8.75	2.47	11.22	23.98
		5	8.38	2.96	11.34	23.98
		6	8.21	3.01	11.22	23.98
		7	8.06	2.99	11.05	23.98
		8	7.97	3.18	11.16	23.98
		9	7.85	3.30	11.14	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	14.04	23.98
		1	14.10	23.98
		2	14.10	23.98
		3	14.22	23.98
		4	14.17	23.98
		5	14.28	23.98
		6	14.27	23.98
		7	14.09	23.98
		8	14.13	23.98
		9	14.23	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	10.46	0.70	11.15	23.98
		1	9.89	1.23	11.12	23.98
		2	9.53	1.63	11.16	23.98
		3	9.26	1.98	11.23	23.98
		4	8.68	2.46	11.15	23.98
		5	8.27	2.90	11.18	23.98
		6	8.26	3.03	11.29	23.98
		7	8.12	3.02	11.14	23.98
		8	7.94	3.24	11.18	23.98
		9	7.73	3.57	11.30	23.98
5610	122	0	10.27	0.70	10.96	23.98
		1	9.77	1.23	11.00	23.98
		2	9.29	1.63	10.92	23.98
		3	9.12	1.98	11.10	23.98
		4	8.48	2.46	10.95	23.98
		5	8.17	2.90	11.07	23.98
		6	8.01	3.03	11.04	23.98
		7	7.97	3.02	10.99	23.98
		8	7.78	3.24	11.02	23.98
		9	7.63	3.57	11.19	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	10.34	0.70	11.04	23.98
		1	9.90	1.22	11.12	23.98
		2	9.53	1.64	11.17	23.98
		3	9.12	1.99	11.12	23.98
		4	8.58	2.47	11.05	23.98
		5	8.21	2.96	11.17	23.98
		6	8.17	3.01	11.18	23.98
		7	7.97	2.99	10.96	23.98
		8	7.79	3.18	10.98	23.98
		9	7.69	3.30	10.98	23.98
5610	122	0	9.91	0.70	10.61	23.98
		1	9.47	1.22	10.69	23.98
		2	9.11	1.64	10.75	23.98
		3	8.79	1.99	10.78	23.98
		4	8.32	2.47	10.79	23.98
		5	7.90	2.96	10.86	23.98
		6	7.78	3.01	10.79	23.98
		7	7.59	2.99	10.58	23.98
		8	7.41	3.18	10.59	23.98
		9	7.42	3.30	10.72	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	14.11	23.98
		1	14.13	23.98
		2	14.18	23.98
		3	14.19	23.98
		4	14.11	23.98
		5	14.19	23.98
		6	14.25	23.98
		7	14.06	23.98
		8	14.09	23.98
		9	14.15	23.98
5610	122	0	13.80	23.98
		1	13.86	23.98
		2	13.85	23.98
		3	13.95	23.98
		4	13.88	23.98
		5	13.98	23.98
		6	13.93	23.98
		7	13.80	23.98
		8	13.82	23.98
		9	13.97	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	10.22	0.70	10.92	30
		1	9.77	1.23	11.00	30
		2	9.34	1.63	10.98	30
		3	9.17	1.98	11.14	30
		4	8.54	2.46	11.01	30
		5	8.24	2.90	11.15	30
		6	8.14	3.03	11.17	30
		7	8.02	3.02	11.04	30
		8	7.82	3.24	11.05	30
		9	7.60	3.57	11.16	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	10.22	0.70	10.92	30
		1	9.86	1.22	11.08	30
		2	9.47	1.64	11.12	30
		3	9.23	1.99	11.22	30
		4	8.71	2.47	11.18	30
		5	8.29	2.96	11.25	30
		6	8.15	3.01	11.16	30
		7	8.00	2.99	10.99	30
		8	7.91	3.18	11.09	30
		9	7.74	3.30	11.03	30

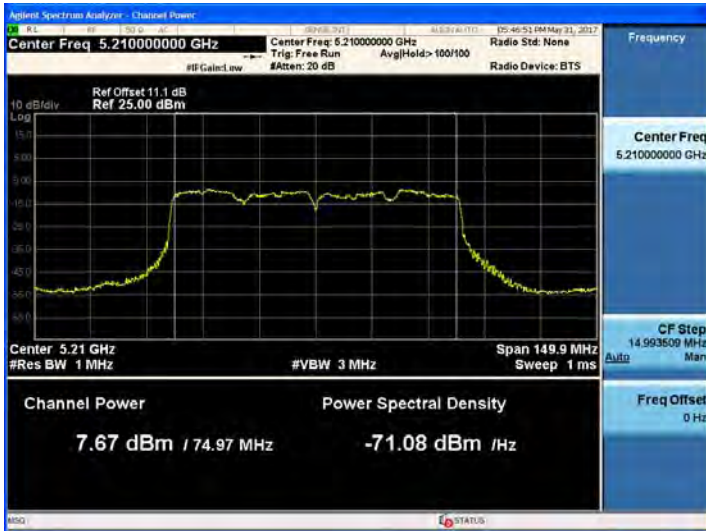
■ TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 3)

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	13.93	30
		1	14.05	30
		2	14.06	30
		3	14.19	30
		4	14.11	30
		5	14.21	30
		6	14.18	30
		7	14.03	30
		8	14.08	30
		9	14.11	30

TEST Plots Ant.0 for 802.11ac_VHT80

802.11ac_VHT80 UNII 1 BAND Average Power (5210 MHz) CH 42 MCS9



802.11ac_VHT80 UNII 2A BAND Average Power (5290 MHz) CH 58 MCS6



802.11ac_VHT80 UNII 2C BAND Average Power (5530 – 5610 MHz) CH 106 MCS9

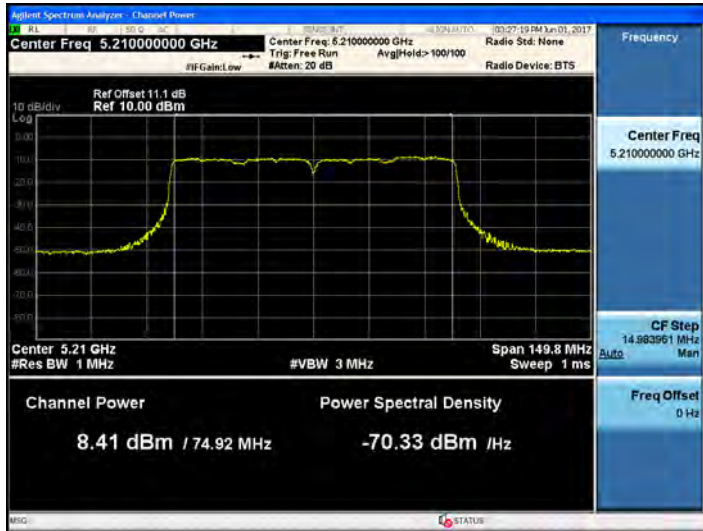


802.11ac_VHT80 UNII 3 BAND Average Power (5775 MHz) CH 155 MCS6



TEST Plots Ant.1 for 802.11ac_VHT80

802.11ac_VHT80 UNII 1 BAND Average Power (5210 MHz) CH 42 MCS5



802.11ac_VHT80 UNII 2A BAND Average Power (5290 MHz) CH 58 MCS5



802.11ac_VHT80 UNII 2C BAND Average Power (5530 – 5610 MHz) CH 106 MCS6



802.11ac_VHT80 UNII 3 BAND Average Power (5775 MHz) CH 155 MCS5



9.4 POWER SPECTRAL DENSITY

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies. The maximum permissible peak power spectral density is 11 dBm/ MHz for UNII 1,2A, 2C and 30 dBm/500 kHz for UNII 3.

■ Limit(CDD)

Power Spectral Density

Band	Mode	Limit
UNII 1	802.11a,n,ac	11 dBm/MHz
UNII 2A	802.11a,n,ac	11 dBm/MHz
UNII 2C	802.11a,n,ac	11 dBm/MHz
UNII 3	802.11a,n,ac	30 dBm/500 kHz

Note : Note : According to KDB644545 D03 v01, emission for straddle channels in each band shall comply with the PSD limits applicable to that band under the appropriate rule section.

Power Spectral Density

Operating Mode	Band	Mode	Operating Ant.	Ant. Gain (dBi)	Limit
SISO	UNII 1	802.11a/n/ac	Ant 0	-1.30	11 dBm/MHz
			Ant 1	-4.10	11 dBm/MHz
	UNII 2A		Ant 0	-2.40	11 dBm/MHz
			Ant 1	-3.50	11 dBm/MHz
	UNII 2C		Ant 0	0.30	11 dBm/MHz
			Ant 1	1.30	11 dBm/MHz
	UNII 3		Ant 0	0.50	30 dBm/500 kHz
			Ant 1	1.30	30 dBm/500 kHz
MIMO(CDD)	UNII 1	802.11a/n/ac	Ant 0 & 1	0.42	11 dBm/MHz
	UNII 2A			0.08	11 dBm/MHz
	UNII 2C			3.82	11 dBm/MHz
	UNII 3			3.92	30 dBm/500 kHz

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

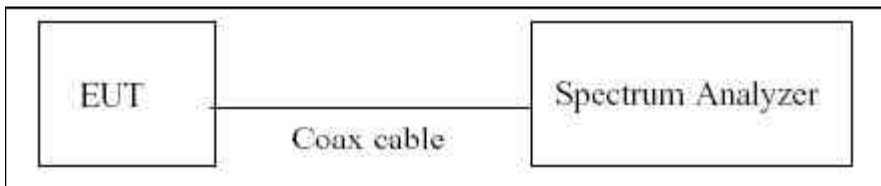
$$\text{Directional gain} = 10 \cdot \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N] \text{ dBi (CDD, 802.11a/n/ac)}$$

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

(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**■ TEST PROCEDURE**

We tested according to Method in KDB 789033 D02 v01r04.

The spectrum analyzer is set to :

1. Set span to encompass the entire emission bandwidth(EBW) of the signal.
2. RBW = 1 MHz(510 kHz for UNII 3)
3. VBW $\geq$ 3 MHz
4. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
5. Sweep time = auto.
6. Detector = RMS(i.e., power averaging), if available. Otherwise, use sample detector mode.
7. Do not use sweep triggering. Allow the sweep to "free run".
8. Trace average at least 100 traces in power averaging(RMS) mode
9. Use the peak search function on the spectrum analyzer to find the peak of the spectrum.
10. If Method SA-2 was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.

■ Sample Calculation

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

Output Power = -5 dBm + 10 dB + 0.8 dB + 0.21 dB = 16.01 dBm

Note :

1. Spectrum reading values are not plot data. The PSD 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. We apply to the offset in the 5.2 GHz, 5.3 GHz and 5.6 GHz range that was rounded off to the closest tenth dB. 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
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11a	3.132	1.531	4.663	11	Pass
5200	40		2.971	0.786	3.757		Pass
5240	48		2.443	0.599	3.042		Pass
5260	52		2.314	0.786	3.100		Pass
5300	60		2.516	1.407	3.923		Pass
5320	64		2.708	1.407	4.115		Pass
5500	100		4.334	1.407	5.741		Pass
5600	120		2.830	0.786	3.616		Pass
5700	140		3.031	1.407	4.438		Pass
5745	149		0.366	0.786	1.152	30	Pass
5785	157		-0.058	1.407	1.349		Pass
5825	165		0.316	1.105	1.421		Pass

Ant.1

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11a	2.876	0.600	3.476	11	Pass
5200	40		1.836	1.540	3.376		Pass
5240	48		2.950	0.782	3.732		Pass
5260	52		1.930	1.400	3.330		Pass
5300	60		2.106	1.400	3.506		Pass
5320	64		2.011	1.400	3.411		Pass
5500	100		1.583	1.400	2.983		Pass
5600	120		2.300	0.782	3.082		Pass
5700	140		1.410	1.540	2.950		Pass
5745	149		-1.662	1.400	-0.262	30	Pass
5785	157		-0.832	1.540	0.708		Pass
5825	165		0.960	1.400	2.360		Pass

■ Sum Data of Ant.0 and Ant.1

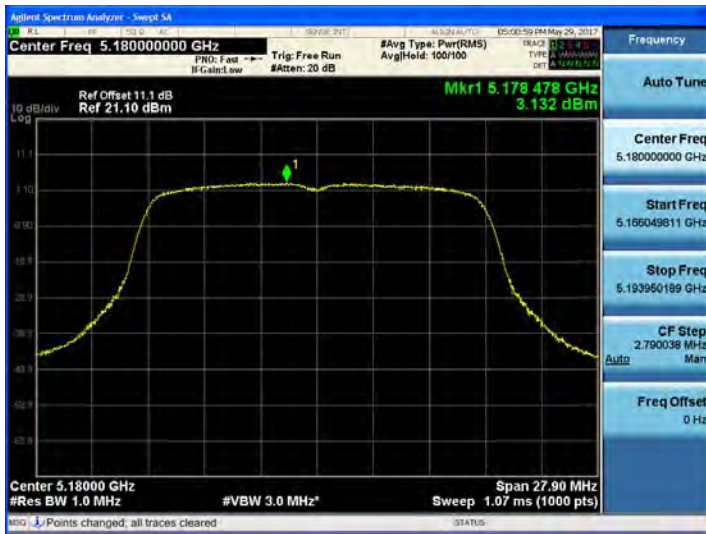
■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5180	36	802.11a	7.10	11	Pass
5200	40		6.58		Pass
5240	48		6.40		Pass
5260	52		6.23		Pass
5300	60		6.73		Pass
5320	64		6.78		Pass
5500	100		7.48		Pass
5600	120		6.36		Pass
5700	140		6.74		Pass
5745	149		3.48	30	Pass
5785	157		4.04		Pass
5825	165		4.91		Pass

■ TEST Plot for 802.11a 20MHz BW_Ant.0

802.11a UNII 1 BAND PSD CH 36



802.11a UNII 2A BAND PSD CH 64



802.11a UNII 2C BAND PSD CH 100



802.11a UNII 3 BAND PSD CH 165



■ TEST Plot for 802.11a 20MHz BW_Ant.1

802.11a UNII 1 BAND PSD CH 48



802.11a UNII 2A BAND PSD CH 60



802.11a UNII 2C BAND PSD CH 120



802.11a UNII 3 BAND PSD CH 165



Ant.0
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11n_ HT20	2.220	0.822	3.042	11	Pass
5200	40		2.029	1.528	3.557		Pass
5240	48		2.046	1.406	3.452		Pass
5260	52		2.082	0.822	2.904		Pass
5300	60		2.379	0.822	3.201		Pass
5320	64		2.512	1.528	4.040		Pass
5500	100		2.754	1.528	4.282		Pass
5600	120		2.647	1.528	4.175		Pass
5700	140		2.545	1.528	4.073		Pass
5745	149		-0.098	1.528	1.430	30	Pass
5785	157		-0.278	1.528	1.250		Pass
5825	165		-0.738	0.822	0.084		Pass

Ant.1
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11n_ HT20	1.692	1.596	3.288	11	Pass
5200	40		1.677	1.596	3.273		Pass
5240	48		2.090	1.596	3.686		Pass
5260	52		1.999	1.596	3.595		Pass
5300	60		1.810	1.596	3.406		Pass
5320	64		1.672	1.596	3.268		Pass
5500	100		1.369	1.596	2.965		Pass
5600	120		1.012	1.596	2.608		Pass
5700	140		1.273	1.596	2.869		Pass
5745	149		-1.456	1.596	0.140	30	Pass
5785	157		-1.223	1.642	0.419		Pass
5825	165		0.793	1.596	2.389		Pass

☒ Sum Data of Ant.0 and Ant.1

☒ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5180	36	802.11n_ HT20	6.18	11	Pass
5200	40		6.43		Pass
5240	48		6.58		Pass
5260	52		6.27		Pass
5300	60		6.31		Pass
5320	64		6.67		Pass
5500	100		6.66		Pass
5600	120		6.44		Pass
5700	140		6.50		Pass
5745	149		3.82	30	Pass
5785	157		3.85		Pass
5825	165		4.32		Pass

■ TEST Plot for 802.11n_HT20_Ant.0

802.11n_HT20 UNII 1 BAND PSD CH 40



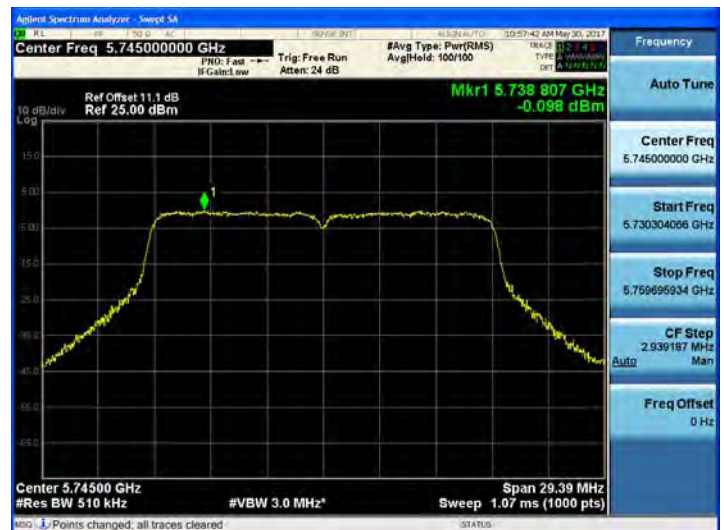
802.11n_HT20 UNII 2A BAND PSD CH 64



802.11n_HT20 UNII 2C BAND PSD CH 100



802.11n_HT20 UNII 3 BAND PSD CH 149



■ TEST Plot for 802.11n_HT20_Ant.1

802.11n_HT20 UNII 1 BAND PSD CH 48



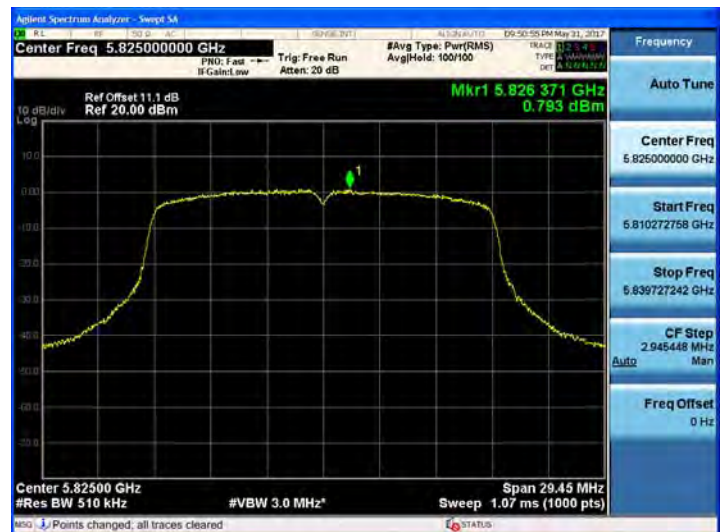
802.11n_HT20 UNII 2A BAND PSD CH 52



802.11n_HT20 UNII 2C BAND PSD CH 100



802.11n_HT20 UNII 3 BAND PSD CH 165



Ant.0
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11ac _VHT20	1.364	1.855	3.219	11	Pass
5200	40		1.957	1.855	3.812		Pass
5240	48		1.872	1.501	3.373		Pass
5260	52		2.008	1.501	3.509		Pass
5300	60		1.376	1.855	3.231		Pass
5320	64		1.797	1.855	3.652		Pass
5500	100		2.475	1.621	4.096		Pass
5600	120		2.377	1.381	3.758		Pass
5700	140		1.987	1.381	3.368		Pass
5745	149		-0.371	1.381	1.010	30	Pass
5785	157		-0.572	1.621	1.049		Pass
5825	165		-0.672	1.381	0.709		Pass

Ant.1
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11ac _VHT20	1.483	1.830	3.313	11	Pass
5200	40		1.574	1.510	3.084		Pass
5240	48		2.485	1.426	3.911		Pass
5260	52		1.777	1.426	3.203		Pass
5300	60		1.902	1.619	3.521		Pass
5320	64		2.231	1.426	3.657		Pass
5500	100		1.609	1.510	3.119		Pass
5600	120		1.604	1.426	3.030		Pass
5700	140		1.744	0.800	2.544		Pass
5745	149		-1.334	1.510	0.176	30	Pass
5785	157		-0.880	1.510	0.630		Pass
5825	165		0.804	1.426	2.230		Pass

☒ Sum Data of Ant.0 and Ant.1

☒ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5180	36	802.11ac _VHT20	6.28	11	Pass
5200	40		6.47		Pass
5240	48		6.66		Pass
5260	52		6.37		Pass
5300	60		6.39		Pass
5320	64		6.66		Pass
5500	100		6.63		Pass
5600	120		6.41		Pass
5700	140		5.98		Pass
5745	149		3.61	30	Pass
5785	157		3.85		Pass
5825	165		4.51		Pass

■ TEST Plot for 802.11ac_VHT20_Ant.0

802.11ac_VHT20 UNII 1 BAND PSD CH 40



802.11ac_VHT20 UNII 2A BAND PSD CH 64



802.11ac_VHT20 UNII 2C BAND PSD CH 100



802.11ac_VHT20 UNII 3 BAND PSD CH 157



■ TEST Plot for 802.11ac_VHT20_Ant.1

802.11ac_VHT20 UNII 1 BAND PSD CH 48



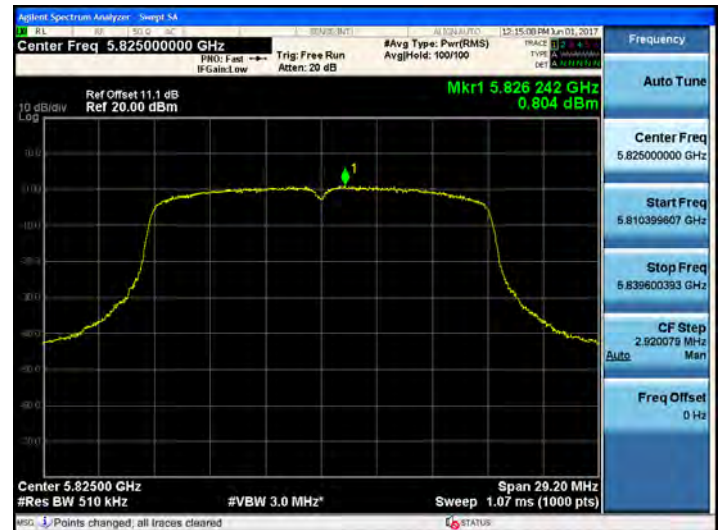
802.11ac_VHT20 UNII 2A BAND PSD CH 64



802.11ac_VHT20 UNII 2C BAND PSD CH 100



802.11ac_VHT20 UNII 3 BAND PSD CH 165



Ant.0
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11n _HT40	-4.417	0.475	-3.942	11	Pass
5230	46		-3.782	1.922	-1.860		Pass
5270	54		-2.748	1.922	-0.826		Pass
5310	62		-3.992	0.475	-3.517		Pass
5510	102		-2.614	1.922	-0.692		Pass
5590	118		-3.746	1.922	-1.824		Pass
5670	134		-3.536	1.922	-1.614		Pass
5755	151		-5.508	1.922	-3.586	30	Pass
5795	159		-6.339	0.475	-5.864		Pass

Ant.1
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11n _HT40	-3.205	0.466	-2.739	11	Pass
5230	46		-3.077	0.466	-2.611		Pass
5270	54		-4.215	1.909	-2.306		Pass
5310	62		-3.086	0.466	-2.620		Pass
5510	102		-4.160	1.909	-2.251		Pass
5590	118		-4.253	0.466	-3.787		Pass
5670	134		-4.177	1.909	-2.268		Pass
5755	151		-6.571	0.466	-6.105	30	Pass
5795	159		-7.016	1.909	-5.107		Pass

■ Sum Data of Ant.0 and Ant.1

■ TEST RESULTS

Conducted Power Density Measurements

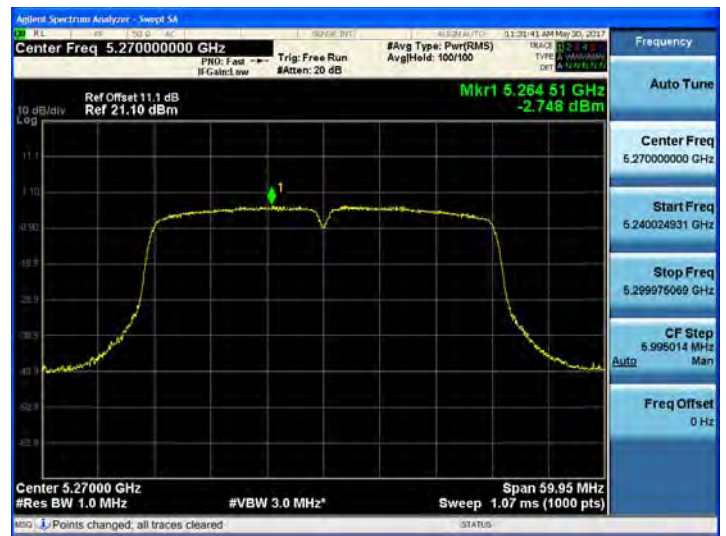
Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5190	38	802.11n _HT40	-0.31	11	Pass
5230	46		0.78		Pass
5270	54		1.48		Pass
5310	62		-0.05		Pass
5510	102		1.57		Pass
5590	118		0.26		Pass
5670	134		1.08		Pass
5755	151		-1.74	30	Pass
5795	159		-2.47		Pass

■ TEST Plot for 802.11n_HT40_Ant.0

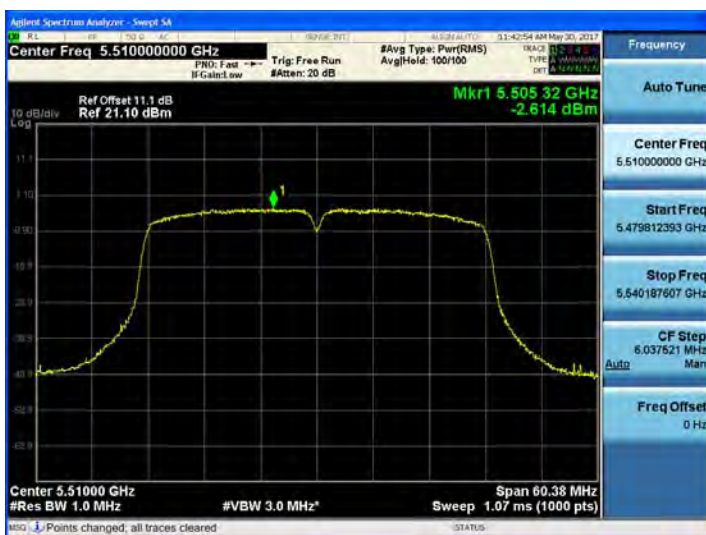
802.11n_HT40 UNII 1 BAND PSD CH 46



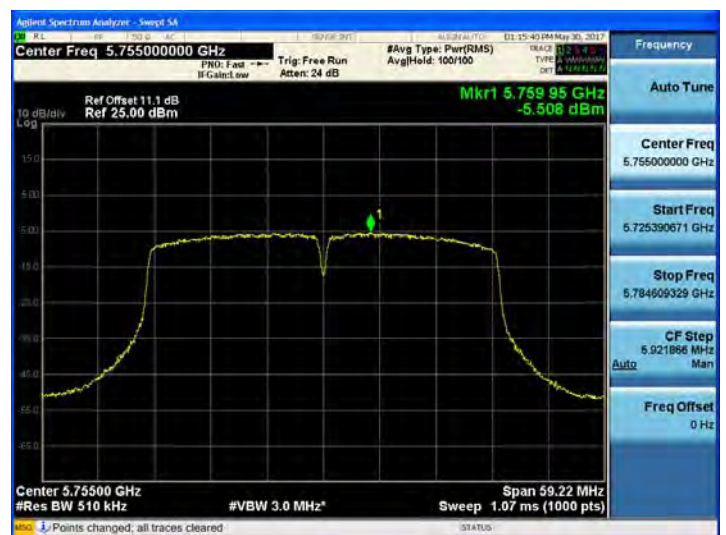
802.11n_HT40 UNII 2A BAND PSD CH 54



802.11n_HT40 UNII 2C BAND PSD CH 102



802.11n_HT40 UNII 3 BAND PSD CH 151



■ TEST Plot for 802.11n_HT40_Ant.1

802.11n_HT40 UNII 1 BAND PSD CH 46



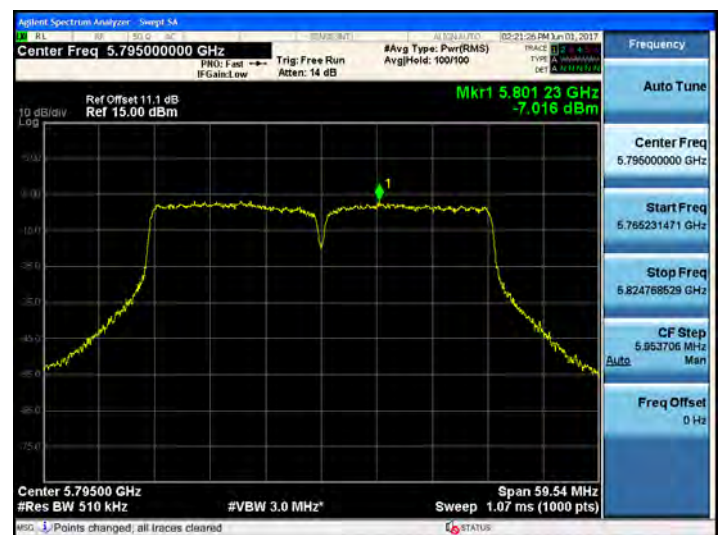
802.11n_HT40 UNII 2A BAND PSD CH 54



802.11n_HT40 UNII 2C BAND PSD CH 102



802.11n_HT40 UNII 3 BAND PSD CH 159



Ant.0
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11ac _VHT40	-3.086	0.451	-2.635	11	Pass
5230	46		-2.789	0.827	-1.962		Pass
5270	54		-2.650	0.827	-1.823		Pass
5310	62		-2.440	0.827	-1.613		Pass
5510	102		-2.413	2.399	-0.014		Pass
5590	118		-2.356	0.827	-1.529		Pass
5670	134		-4.153	2.865	-1.288		Pass
5755	151		-5.124	2.865	-2.259	30	Pass
5795	159		-6.513	2.399	-4.114		Pass

Ant.1
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11ac _VHT40	-2.970	0.861	-2.109	11	Pass
5230	46		-3.427	0.861	-2.566		Pass
5270	54		-4.523	1.954	-2.569		Pass
5310	62		-4.731	2.311	-2.420		Pass
5510	102		-4.790	2.311	-2.479		Pass
5590	118		-4.835	0.861	-3.974		Pass
5670	134		-4.663	1.954	-2.709		Pass
5755	151		-8.107	2.311	-5.796	30	Pass
5795	159		-5.696	1.954	-3.742		Pass

☒ Sum Data of Ant.0 and Ant.1

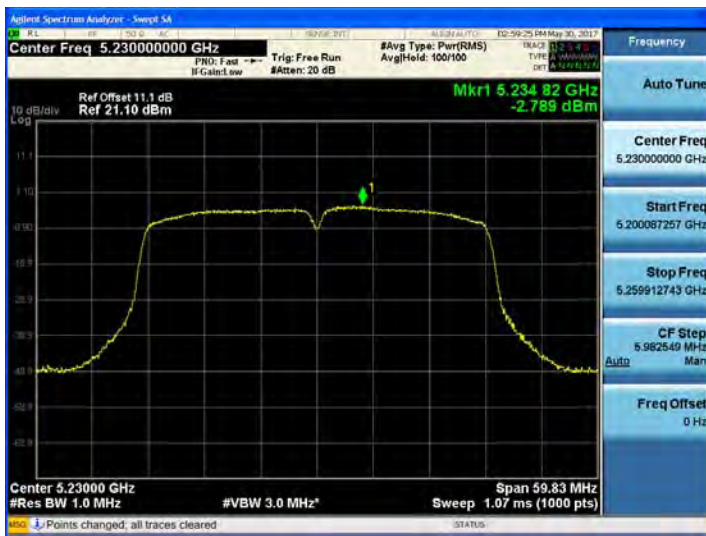
☒ TEST RESULTS

Conducted Power Density Measurements

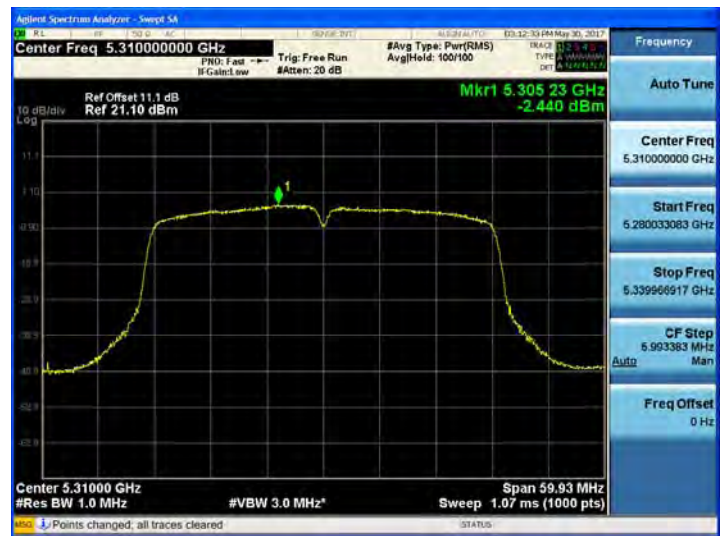
Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5190	38	802.11ac _VHT40	0.64	11	Pass
5230	46		0.75		Pass
5270	54		0.82		Pass
5310	62		1.00		Pass
5510	102		1.85		Pass
5590	118		0.34		Pass
5670	134		1.04		Pass
5755	151		-0.84	30	Pass
5795	159		-0.92		Pass

■ TEST Plot for 802.11ac_VHT40_Ant.0

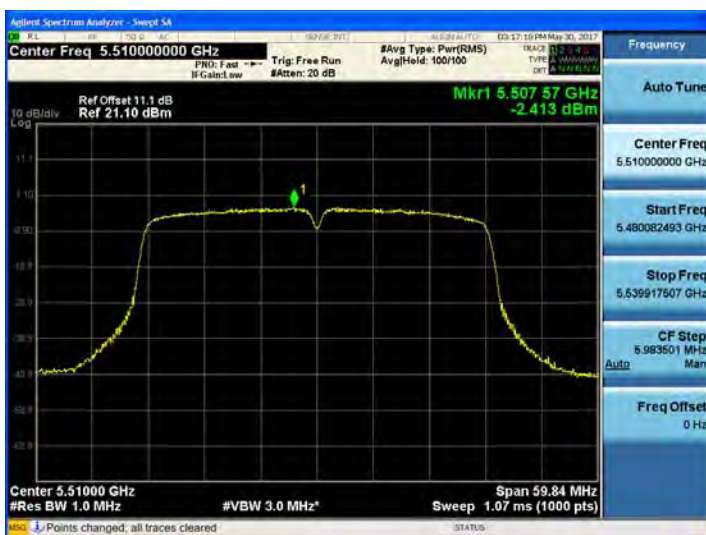
802.11ac_VHT40 UNII 1 BAND PSD CH 46



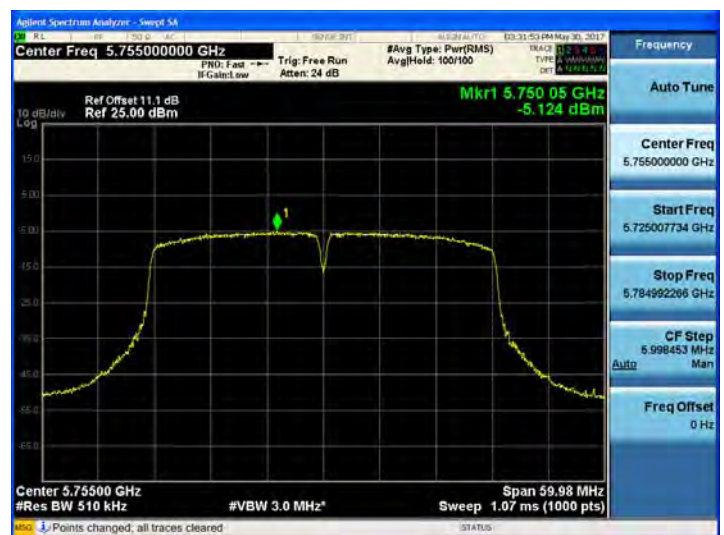
802.11ac_VHT40 UNII 2A BAND PSD CH 62



802.11ac_VHT40 UNII 2C BAND PSD CH 102

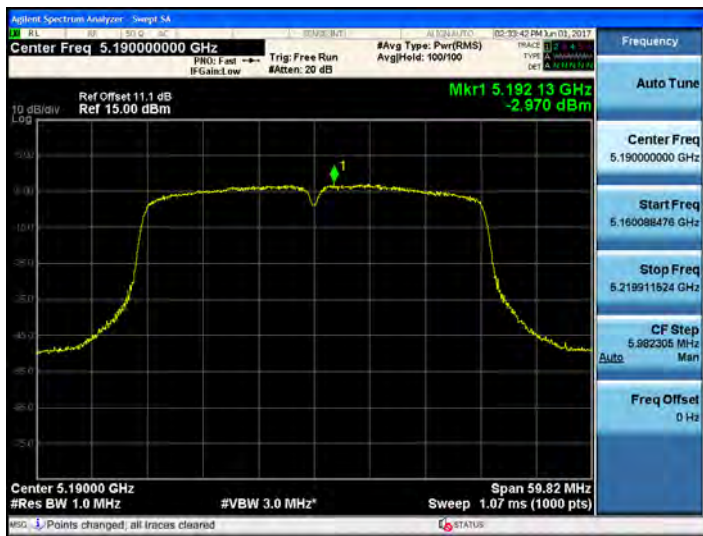


802.11ac_VHT40 UNII 3 BAND PSD CH 151

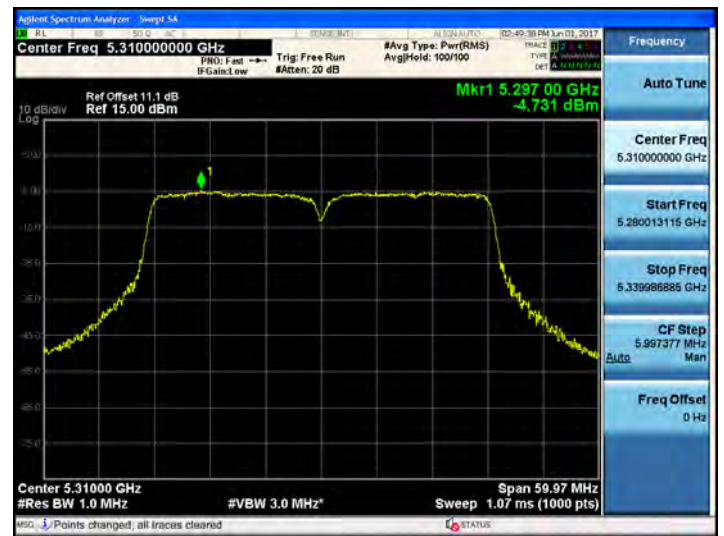


■ TEST Plot for 802.11ac_VHT40_Ant.1

802.11ac_VHT40 UNII 1 BAND PSD CH 38



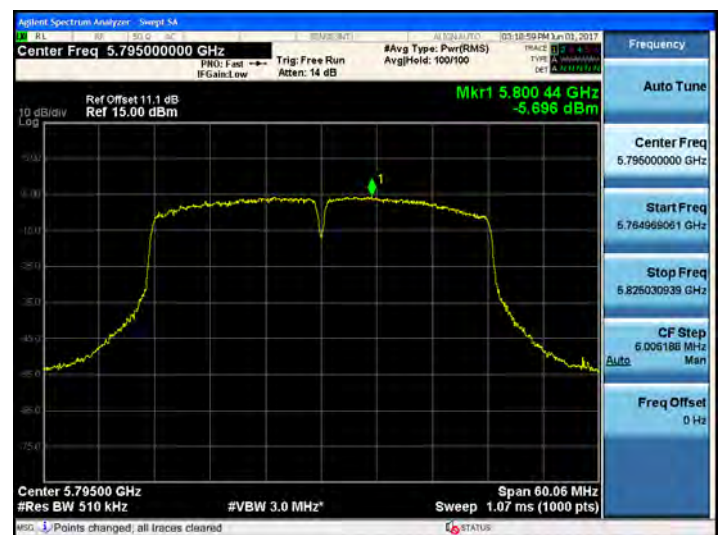
802.11ac_VHT40 UNII 2A BAND PSD CH 62



802.11ac_VHT40 UNII 2C BAND PSD CH 102



802.11ac_VHT40 UNII 3 BAND PSD CH 159



Ant.0

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5210	42	802.11ac _VHT80	-8.206	3.565	-4.641	11	Pass
5290	58		-7.869	3.033	-4.836		Pass
5530	106		-7.803	3.565	-4.238		Pass
5610	122		-8.200	3.565	-4.635		Pass
5775	155		-10.402	3.033	-7.369	30	Pass

Ant.1

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5210	42	802.11ac _VHT80	-8.641	2.961	-5.680	11	Pass
5290	58		-8.291	2.961	-5.330		Pass
5530	106		-8.411	3.010	-5.401		Pass
5610	122		-8.568	2.961	-5.607		Pass
5775	155		-10.849	2.961	-7.888	30	Pass

☒ Sum Data of Ant.0 and Ant.1

☒ TEST RESULTS

Conducted Power Density Measurements

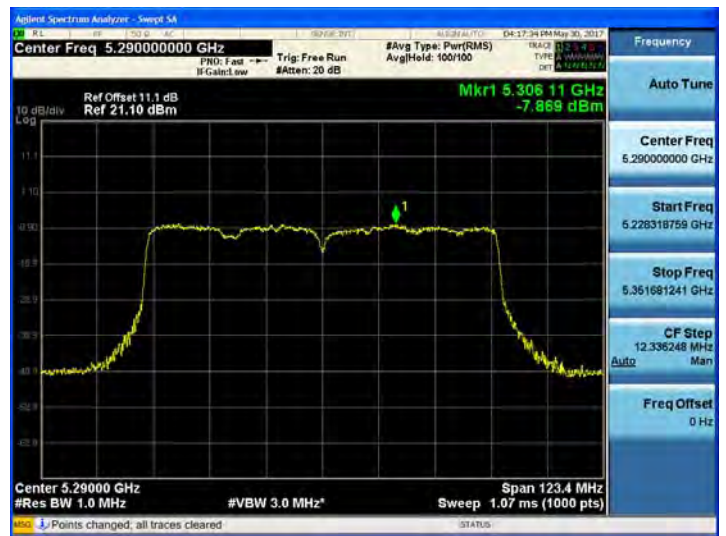
Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5210	42	802.11ac _VHT80	-2.13	11	Pass
5290	58		-2.07		Pass
5530	106		-1.79		Pass
5610	122		-2.10		Pass
5775	155		-4.61	30	Pass

■ TEST Plot for 802.11ac_VHT80_Ant.0

802.11ac_VHT80 UNII 1 BAND PSD CH 42



802.11ac_VHT80 UNII 2A BAND PSD CH 58



802.11ac_VHT80 UNII 2C BAND PSD CH 106



802.11ac_VHT80 UNII 3 BAND PSD CH 155



■ TEST Plot for 802.11ac_VHT80_Ant.1

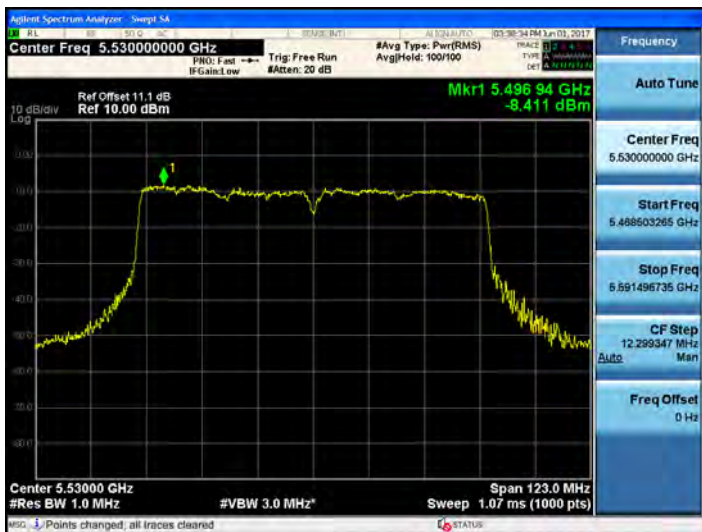
802.11ac_VHT80 UNII 1 BAND PSD CH 42



802.11ac_VHT80 UNII 2A BAND PSD CH 58



802.11ac_VHT80 UNII 2C BAND PSD CH 106



802.11ac_VHT80 UNII 3 BAND PSD CH 155



9.5 FREQUENCY STABILITY.

The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -30 °C and 50 °C. The temperature was incremented by 10 °C intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

[Ant.0]

20 MHz BW

OPERATING BAND:	UNII Band 1
OPERATING FREQUENCY:	5,180,000,000 Hz
CHANNEL:	36
REFERENCE VOLTAGE:	7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5180026.94	26.94
Normal		-30	5180004.10	4.10
Normal		-20	5180008.50	8.50
Normal		-10	5180013.30	13.30
Normal		0	5180018.60	18.60
Normal		+10	5180024.10	24.10
Normal		+30	5180039.20	39.20
Normal		+40	5180043.80	43.80
Normal		+50	5180048.70	48.70
High	8.35	+20	5180026.60	26.60
Low	6.85	+20	5180020.60	20.60

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

audwls

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,260,000,000 Hz
 CHANNEL: 52
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5260041.16	41.16
Normal		-30	5260003.90	3.90
Normal		-20	5260009.10	9.10
Normal		-10	5260014.90	14.90
Normal		0	5260019.40	19.40
Normal		+10	5260025.20	25.20
Normal		+30	5260039.10	39.10
Normal		+40	5260043.20	43.20
Normal		+50	5260047.70	47.70
High	8.35	+20	5260027.40	27.40
Low	6.85	+20	5260022.10	22.10

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,500,000,000 Hz
 CHANNEL: 100
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5500031.31	31.31
Normal		-30	5499999.10	-0.90
Normal		-20	5500006.70	6.70
Normal		-10	5500011.20	11.20
Normal		0	5500018.70	18.70
Normal		+10	5500025.50	25.50
Normal		+30	5500037.10	37.10
Normal		+40	5500042.10	42.10
Normal		+50	5500046.50	46.50
High	8.35	+20	5500024.40	24.40
Low	6.85	+20	5500016.40	16.40

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,745,000,000 Hz
 CHANNEL: 149
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5745024.51	24.51
Normal		-30	5744999.80	-0.20
Normal		-20	5745006.40	6.40
Normal		-10	5745011.50	11.50
Normal		0	5745018.80	18.80
Normal		+10	5745026.80	26.80
Normal		+30	5745038.50	38.50
Normal		+40	5745044.10	44.10
Normal		+50	5745051.20	51.20
High	8.35	+20	5745024.60	24.60
Low	6.85	+20	5745018.10	18.10

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

40 MHz BW

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,190,000,000 Hz
 CHANNEL: 38
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5190024.66	24.66
Normal		-30	5190002.35	2.35
Normal		-20	5190006.75	6.75
Normal		-10	5190012.25	12.25
Normal		0	5190017.75	17.75
Normal		+10	5190025.45	25.45
Normal		+30	5190039.60	39.60
Normal		+40	5190046.20	46.20
Normal		+50	5190051.70	51.70
High	8.35	+20	5190026.40	26.40
Low	6.85	+20	5190019.95	19.95

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,270,000,000 Hz
 CHANNEL: 54
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5270041.63	41.63
Normal		-30	5269954.00	-46.00
Normal		-20	5269960.40	-39.60
Normal		-10	5269964.90	-35.10
Normal		0	5269969.70	-30.30
Normal		+10	5269974.50	-25.50
Normal		+30	5269988.10	-11.90
Normal		+40	5269993.80	-6.20
Normal		+50	5269998.40	-1.60
High	8.35	+20	5269975.70	-24.30
Low	6.85	+20	5269972.50	-27.50

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,510,000,000 Hz
 CHANNEL: 102
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5510026.31	26.31
Normal		-30	5509976.90	-23.10
Normal		-20	5509988.90	-11.10
Normal		-10	5510002.90	2.90
Normal		0	5510016.90	16.90
Normal		+10	5510026.90	26.90
Normal		+30	5510045.90	45.90
Normal		+40	5510053.90	53.90
Normal		+50	5510065.90	65.90
High	8.35	+20	5510017.90	17.90
Low	6.85	+20	5510016.90	16.90

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,755,000,000 Hz
 CHANNEL: 151
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5755023.32	23.32
Normal		-30	5754948.60	-51.40
Normal		-20	5754954.00	-46.00
Normal		-10	5754961.50	-38.50
Normal		0	5754969.50	-30.50
Normal		+10	5754974.10	-25.90
Normal		+30	5754986.00	-14.00
Normal		+40	5754993.00	-7.00
Normal		+50	5754998.10	-1.90
High	8.35	+20	5754972.50	-27.50
Low	6.85	+20	5754967.00	-33.00

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

80 MHz BW

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5210033.67	33.67
Normal		-30	5209950.80	-49.20
Normal		-20	5209957.50	-42.50
Normal		-10	5209962.50	-37.50
Normal		0	5209969.80	-30.20
Normal		+10	5209975.70	-24.30
Normal		+30	5209986.00	-14.00
Normal		+40	5209992.70	-7.30
Normal		+50	5209999.60	-0.40
High	8.35	+20	5209973.20	-26.80
Low	6.85	+20	5209968.00	-32.00

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,290,000,000 Hz
CHANNEL: 58
REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5290028.95	28.95
Normal		-30	5289950.13	-49.87
Normal		-20	5289956.73	-43.27
Normal		-10	5289961.13	-38.87
Normal		0	5289969.50	-30.50
Normal		+10	5289974.10	-25.90
Normal		+30	5289988.20	-11.80
Normal		+40	5289995.90	-4.10
Normal		+50	5290000.30	0.30
High	8.35	+20	5289972.13	-27.87
Low	6.85	+20	5289968.83	-31.17

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5530051.11	51.11
Normal		-30	5529948.93	-51.07
Normal		-20	5529953.33	-46.67
Normal		-10	5529957.73	-42.27
Normal		0	5529966.10	-33.90
Normal		+10	5529973.80	-26.20
Normal		+30	5529984.90	-15.10
Normal		+40	5529990.40	-9.60
Normal		+50	5529997.00	-3.00
High	8.35	+20	5529972.13	-27.87
Low	6.85	+20	5529962.13	-37.87

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5775027.64	27.64
Normal		-30	5774948.73	-51.27
Normal		-20	5774953.13	-46.87
Normal		-10	5774960.83	-39.17
Normal		0	5774968.20	-31.80
Normal		+10	5774972.90	-27.10
Normal		+30	5774987.10	-12.90
Normal		+40	5774992.60	-7.40
Normal		+50	5774998.10	-1.90
High	8.35	+20	5774973.13	-26.87
Low	6.85	+20	5774967.43	-32.57

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

[Ant.1]
20 MHz BW

OPERATING BAND:	UNII Band 1
OPERATING FREQUENCY:	5,180,000,000 Hz
CHANNEL:	36
REFERENCE VOLTAGE:	7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5180034.70	34.70
Normal		-30	5180001.40	1.40
Normal		-20	5180007.30	7.30
Normal		-10	5180014.70	14.70
Normal		0	5180020.90	20.90
Normal		+10	5180027.80	27.80
Normal		+30	5180041.90	41.90
Normal		+40	5180048.80	48.80
Normal		+50	5180054.10	54.10
High	8.35	+20	5180028.50	28.50
Low	6.85	+20	5180021.90	21.90

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,260,000,000 Hz
 CHANNEL: 52
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5260031.90	31.90
Normal		-30	5259999.40	-0.60
Normal		-20	5260007.40	7.40
Normal		-10	5260013.50	13.50
Normal		0	5260019.50	19.50
Normal		+10	5260026.10	26.10
Normal		+30	5260037.60	37.60
Normal		+40	5260043.80	43.80
Normal		+50	5260049.60	49.60
High	8.35	+20	5260025.90	25.90
Low	6.85	+20	5260019.20	19.20

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,500,000,000 Hz
CHANNEL: 100
REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5500032.40	32.40
Normal		-30	5500000.60	0.60
Normal		-20	5500008.00	8.00
Normal		-10	5500014.20	14.20
Normal		0	5500020.30	20.30
Normal		+10	5500026.80	26.80
Normal		+30	5500037.60	37.60
Normal		+40	5500044.50	44.50
Normal		+50	5500050.30	50.30
High	8.35	+20	5500025.80	25.80
Low	6.85	+20	5500019.90	19.90

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,745,000,000 Hz
 CHANNEL: 149
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5745033.70	33.70
Normal		-30	5745000.30	0.30
Normal		-20	5745005.60	5.60
Normal		-10	5745013.10	13.10
Normal		0	5745020.00	20.00
Normal		+10	5745026.60	26.60
Normal		+30	5745036.20	36.20
Normal		+40	5745042.90	42.90
Normal		+50	5745050.40	50.40
High	8.35	+20	5745025.00	25.00
Low	6.85	+20	5745017.40	17.40

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

40 MHz BW

OPERATING BAND: UNII Band 1
OPERATING FREQUENCY: 5,190,000,000 Hz
CHANNEL: 38
REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5190031.77	31.77
Normal		-30	5190000.90	0.90
Normal		-20	5190007.70	7.70
Normal		-10	5190013.40	13.40
Normal		0	5190019.80	19.80
Normal		+10	5190025.80	25.80
Normal		+30	5190037.40	37.40
Normal		+40	5190043.50	43.50
Normal		+50	5190048.50	48.50
High	8.35	+20	5190025.50	25.50
Low	6.85	+20	5190018.90	18.90

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,270,000,000 Hz
 CHANNEL: 54
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5270024.12	24.12
Normal		-30	5270002.20	2.20
Normal		-20	5270009.50	9.50
Normal		-10	5270014.90	14.90
Normal		0	5270020.50	20.50
Normal		+10	5270026.00	26.00
Normal		+30	5270038.70	38.70
Normal		+40	5270043.90	43.90
Normal		+50	5270049.50	49.50
High	8.35	+20	5270026.30	26.30
Low	6.85	+20	5270021.70	21.70

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,510,000,000 Hz
 CHANNEL: 102
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5510052.36	52.36
Normal		-30	5509999.00	-1.00
Normal		-20	5510005.00	5.00
Normal		-10	5510012.60	12.60
Normal		0	5510018.80	18.80
Normal		+10	5510026.20	26.20
Normal		+30	5510039.40	39.40
Normal		+40	5510043.50	43.50
Normal		+50	5510049.60	49.60
High	8.35	+20	5510025.70	25.70
Low	6.85	+20	5510020.10	20.10

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,755,000,000 Hz
 CHANNEL: 151
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5755041.36	41.36
Normal		-30	5755000.70	0.70
Normal		-20	5755007.90	7.90
Normal		-10	5755014.30	14.30
Normal		0	5755019.20	19.20
Normal		+10	5755026.00	26.00
Normal		+30	5755038.90	38.90
Normal		+40	5755044.60	44.60
Normal		+50	5755049.80	49.80
High	8.35	+20	5755027.00	27.00
Low	6.85	+20	5755021.30	21.30

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

80 MHz BW

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5210021.43	21.43
Normal		-30	5209996.00	-4.00
Normal		-20	5210003.60	3.60
Normal		-10	5210011.60	11.60
Normal		0	5210017.30	17.30
Normal		+10	5210024.70	24.70
Normal		+30	5210037.30	37.30
Normal		+40	5210044.90	44.90
Normal		+50	5210049.30	49.30
High	8.35	+20	5210026.20	26.20
Low	6.85	+20	5210017.00	17.00

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,290,000,000 Hz
 CHANNEL: 58
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5290033.69	33.69
Normal		-30	5289996.90	-3.10
Normal		-20	5290003.30	3.30
Normal		-10	5290010.50	10.50
Normal		0	5290017.70	17.70
Normal		+10	5290024.60	24.60
Normal		+30	5290036.00	36.00
Normal		+40	5290042.70	42.70
Normal		+50	5290050.50	50.50
High	8.35	+20	5290024.70	24.70
Low	6.85	+20	5290014.60	14.60

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5530043.12	43.12
Normal		-30	5530001.90	1.90
Normal		-20	5530006.80	6.80
Normal		-10	5530013.90	13.90
Normal		0	5530020.40	20.40
Normal		+10	5530024.90	24.90
Normal		+30	5530038.20	38.20
Normal		+40	5530044.10	44.10
Normal		+50	5530051.40	51.40
High	8.35	+20	5530025.40	25.40
Low	6.85	+20	5530020.20	20.20

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 7.6 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.60	+20(Ref)	5775016.86	16.86
Normal		-30	5774998.30	-1.70
Normal		-20	5775004.20	4.20
Normal		-10	5775011.80	11.80
Normal		0	5775018.60	18.60
Normal		+10	5775025.00	25.00
Normal		+30	5775038.20	38.20
Normal		+40	5775042.90	42.90
Normal		+50	5775049.80	49.80
High	8.35	+20	5775025.10	25.10
Low	6.85	+20	5775018.10	18.10

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

9.6 RADIATED MEASUREMENT

9.6.1 RADIATED SPURIOUS EMISSIONS.

Test Requirements and limit, §15.205, §15.209, §15.407

Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

■ §15.407, KDB 789033 D02

All harmonics that do not lie in a restricted band are subject to a peak limit of -27 dBm/MHz. At a distance of 3 meters the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2 dB to the EIRP limit of -27 dBm/MHz to obtain the limit for out of band spurious emissions of 68.2 dBμV/m.

Especially, for transmitter operating in the 5725 Mhz – 5850 MHz : all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequency 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

■ Test case

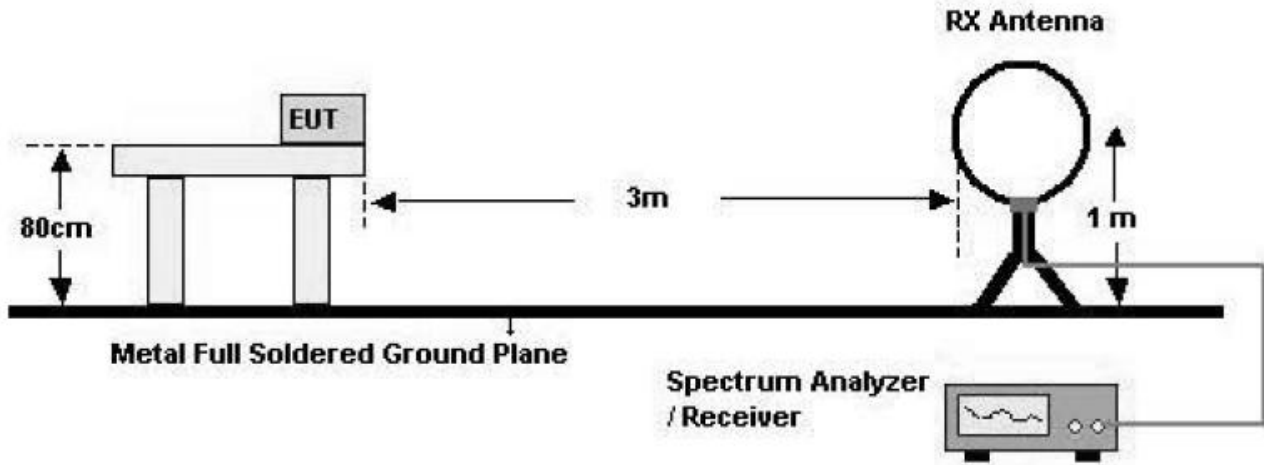
Configuration	
Only Tablet	Tablet+keyboard cover (kickstand)

Note :

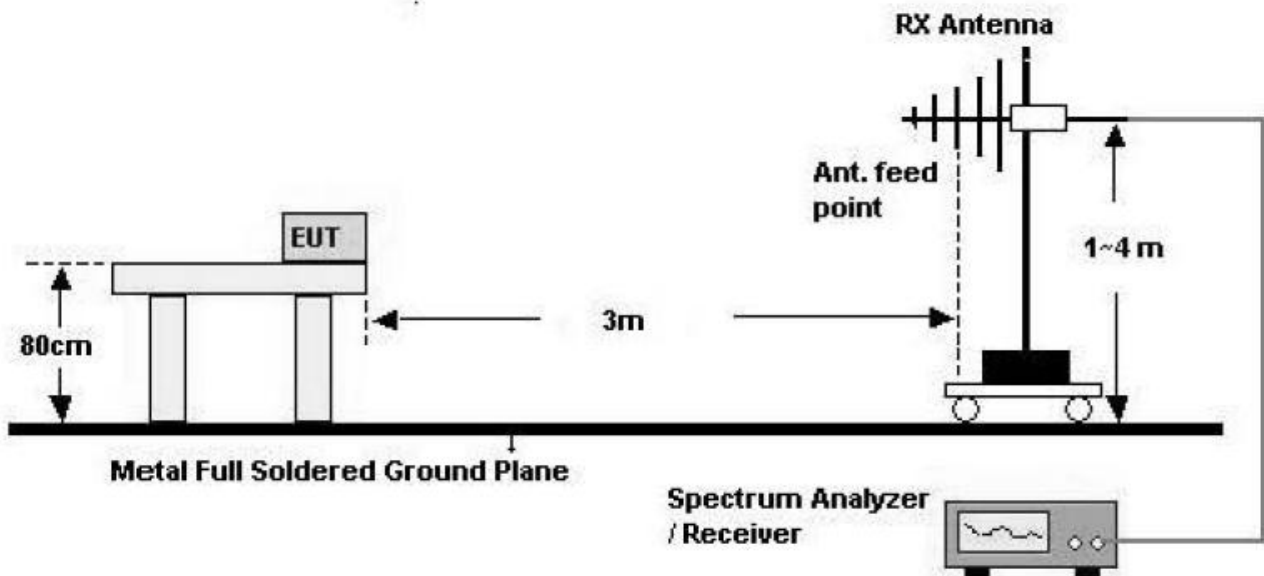
- In case of radiation test, we have done all test case. Worst configuration case is Only Tablet.
So, we attached the result of (Only Tablet) and worst case of Table+keyboard cover (kickstand).

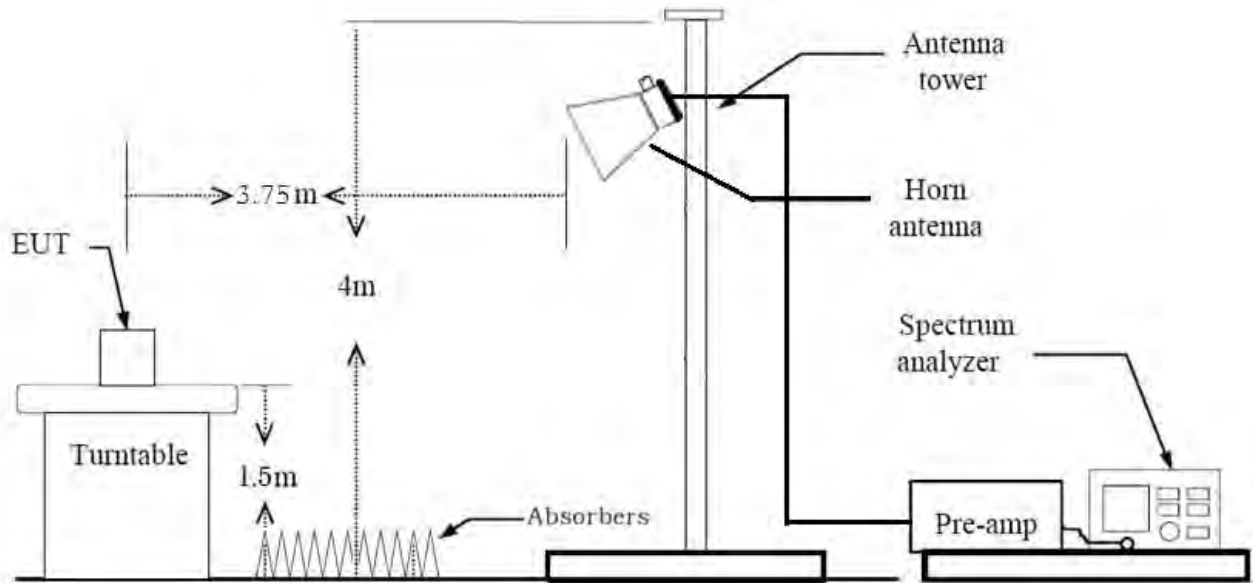
Test Configuration

Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz**TEST PROCEDURE USED**

ANSI C63.10:2013

Method G)5) in KDB 789033 D02 v01r04 (Peak)

Method G)6)d) in KDB 789033 D02 v01r04 (Average)

. Spectrum setting:

- Peak.

1. RBW = 1 MHz

2. VBW $\geq$ 3 MHz

3. Detector = Peak

4. Sweep Time = auto

5. Trace mode = max hold

6. Allow sweeps to continue until the trace stabilizes.

7. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle.

- Average (Method VB :Averaging using reduced video bandwidth)

1. RBW = 1 MHz

2. VBW

2.1. If the EUT is configured to transmit with duty cycle ≥ 98 percent, set $VBW \leq RBW/100$ (i.e., 10 kHz) but not less than 10 Hz.

2.2. If the EUT duty cycle is < 98 percent, set $VBW \geq 1/T$, where T is the minimum transmission duration.

3. The analyzer is set to linear detector mode.

4. Detector = Peak.

5. Sweep time = auto.

6. Trace mode = max hold.

7. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of $1/x$, where x is the duty cycle.

Note :

1. We used the Method VB for 802.11a/n_HT20, n_HT40, ac_VHT20, 40, 80 mode to perform the average filed strength measurements.

2. The actual setting value of VBW for 802.11a/n_HT20, n_HT40, ac_VHT20, 40, 80

3. According to SVSWR requirement in ANSI 63.4-2014, We performed the radiated test at 3.75 m distance from center of turn table. So, we applied the distance factor(reference distance : 3 m).

4. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Mode	Worst Data rate (Mbps)	T_{on} (ms)	T_{total} (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
a	6	2.064	2.169	95.14	485	1000
n_HT20	MCS 0	1.924	2.030	94.81	520	1000
ac_VHT20	MCS 0	1.930	2.037	94.78	518	1000
n_HT40	MCS 0	0.949	1.056	89.82	1054	3000
ac_VHT40	MCS 0	0.952	1.056	90.13	1050	3000
ac_VHT80	MCS 0	0.600	0.704	85.21	1667	3000

TEST RESULTS**9 kHz – 30MHz****Operation Mode:** Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/m	dB
No Critical peaks found							

Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
4. Limit line = specific Limits (dBuV) + Distance extrapolation factor
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
6. The test results for below 30 MHz is correlated to an open site.
The result on OATS is about 2 dB higher than semi-anechoic chamber (10 m chamber)

TEST RESULTS**Below 1 GHz****Operation Mode:** Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/m	dB
No Critical peaks found							

Notes:

1. Measuring frequencies from 30 MHz to the 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Above 1 GHz

[Only tablet]

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	55.46	0.70	V	56.16	68.20	12.04	PK
15540	48.85	0.78	V	49.63	73.98	24.35	PK
15540	37.03	0.78	V	37.81	53.98	16.17	AV
10360	55.13	0.70	H	55.83	68.20	12.37	PK
15540	48.53	0.78	H	49.31	73.98	24.67	PK
15540	36.67	0.78	H	37.45	53.98	16.53	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	54.89	1.04	V	55.93	68.20	12.27	PK
15600	49.17	0.83	V	50.00	73.98	23.98	PK
15600	37.52	0.83	V	38.35	53.98	15.63	AV
10400	54.17	1.04	H	55.21	68.20	12.99	PK
15600	48.27	0.83	H	49.10	73.98	24.88	PK
15600	37.21	0.83	H	38.04	53.98	15.94	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	50.91	0.35	V	51.26	68.20	16.94	PK
15720	49.67	0.33	V	50.00	73.98	23.98	PK
15720	37.50	0.33	V	37.83	53.98	16.15	AV
10480	50.48	0.35	H	50.83	68.20	17.37	PK
15720	49.28	0.33	H	49.61	73.98	24.37	PK
15720	37.26	0.33	H	37.59	53.98	16.39	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	54.24	0.70	V	54.94	68.20	13.26	PK
15540	48.50	0.78	V	49.28	73.98	24.70	PK
15540	36.96	0.78	V	37.74	53.98	16.24	AV
10360	53.96	0.70	H	54.66	68.20	13.54	PK
15540	48.27	0.78	H	49.05	73.98	24.93	PK
15540	36.48	0.78	H	37.26	53.98	16.72	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	53.61	1.04	V	54.65	68.20	13.55	PK
15600	49.06	0.83	V	49.89	73.98	24.09	PK
15600	37.48	0.83	V	38.31	53.98	15.67	AV
10400	53.33	1.04	H	54.37	68.20	13.83	PK
15600	48.57	0.83	H	49.40	73.98	24.58	PK
15600	37.26	0.83	H	38.09	53.98	15.89	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	56.03	0.35	V	56.38	68.20	11.82	PK
15720	48.75	0.33	V	49.08	73.98	24.90	PK
15720	37.42	0.33	V	37.75	53.98	16.23	AV
10480	55.67	0.35	H	56.02	68.20	12.18	PK
15720	48.67	0.33	H	49.00	73.98	24.98	PK
15720	34.08	0.33	H	34.41	53.98	19.57	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	53.78	0.70	V	54.48	68.20	13.72	PK
15540	48.66	0.78	V	49.44	73.98	24.54	PK
15540	37.02	0.78	V	37.80	53.98	16.18	AV
10360	53.57	0.70	H	54.27	68.20	13.93	PK
15540	48.31	0.78	H	49.09	73.98	24.89	PK
15540	36.54	0.78	H	37.32	53.98	16.66	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	54.78	1.04	V	55.82	68.20	12.38	PK
15600	49.04	0.83	V	49.87	73.98	24.11	PK
15600	37.45	0.83	V	38.28	53.98	15.70	AV
10400	54.34	1.04	H	55.38	68.20	12.82	PK
15600	48.64	0.83	H	49.47	73.98	24.51	PK
15600	37.18	0.83	H	38.01	53.98	15.97	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	55.29	0.35	V	55.64	68.20	12.56	PK
15720	49.72	0.33	V	50.05	73.98	23.93	PK
15720	37.36	0.33	V	37.69	53.98	16.29	AV
10480	54.91	0.35	H	55.26	68.20	12.94	PK
15720	49.57	0.33	H	49.90	73.98	24.08	PK
15720	37.22	0.33	H	37.55	53.98	16.43	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	51.24	0.47	V	51.71	68.20	16.49	PK
15570	48.18	0.92	V	49.10	73.98	24.88	PK
15570	36.53	0.92	V	37.45	53.98	16.53	AV
10380	50.94	0.47	H	51.41	68.20	16.79	PK
15570	47.85	0.92	H	48.77	73.98	25.21	PK
15570	36.24	0.92	H	37.16	53.98	16.82	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	51.62	1.61	V	53.23	68.20	14.97	PK
15690	48.83	-0.06	V	48.77	73.98	25.21	PK
15690	36.28	-0.06	V	36.22	53.98	17.76	AV
10460	51.27	1.61	H	52.88	68.20	15.32	PK
15690	48.52	-0.06	H	48.46	73.98	25.52	PK
15690	36.08	-0.06	H	36.02	53.98	17.96	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	50.49	0.47	V	50.96	68.20	17.24	PK
15570	47.48	0.92	V	48.40	73.98	25.58	PK
15570	36.41	0.92	V	37.33	53.98	16.65	AV
10380	50.11	0.47	H	50.58	68.20	17.62	PK
15570	47.16	0.92	H	48.08	73.98	25.90	PK
15570	36.17	0.92	H	37.09	53.98	16.89	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	52.08	1.61	V	53.69	68.20	14.51	PK
15690	48.17	-0.06	V	48.11	73.98	25.87	PK
15690	36.24	-0.06	V	36.18	53.98	17.80	AV
10460	51.67	1.61	H	53.28	68.20	14.92	PK
15690	47.55	-0.06	H	47.49	73.98	26.49	PK
15690	35.92	-0.06	H	35.86	53.98	18.12	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	50.32	1.04	V	51.36	68.20	16.84	PK
15630	48.91	-0.92	V	47.99	73.98	25.99	PK
15630	37.38	-0.92	V	36.46	53.98	17.52	AV
10420	49.81	1.04	H	50.85	68.20	17.35	PK
15630	48.53	-0.92	H	47.61	73.98	26.37	PK
15630	37.17	-0.92	H	36.25	53.98	17.73	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer MCS Index:	6 Mbps
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	57.61	-0.34	V	57.27	68.20	10.93	PK
15780	48.32	-0.91	V	47.41	73.98	26.57	PK
15780	35.72	-0.91	V	34.81	53.98	19.17	AV
10520	57.16	-0.34	H	56.82	68.20	11.38	PK
15780	48.03	-0.91	H	47.12	73.98	26.86	PK
15780	35.43	-0.91	H	34.52	53.98	19.46	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	58.36	0.01	V	58.37	73.98	15.61	PK
10600	45.52	0.01	V	45.53	53.98	8.45	AV
15900	48.70	0.35	V	49.05	73.98	24.93	PK
15900	36.86	0.35	V	37.21	53.98	16.77	AV
10600	58.00	0.01	H	58.01	73.98	15.97	PK
10600	45.17	0.01	H	45.18	53.98	8.80	AV
15900	48.38	0.35	H	48.73	73.98	25.25	PK
15900	36.52	0.35	H	36.87	53.98	17.11	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	57.70	0.12	V	57.82	73.98	16.16	PK
10640	45.55	0.12	V	45.67	53.98	8.31	AV
15960	48.99	-0.06	V	48.93	73.98	25.05	PK
15960	36.65	-0.06	V	36.59	53.98	17.39	AV
10640	57.37	0.12	H	57.49	73.98	16.49	PK
10640	45.19	0.12	H	45.31	53.98	8.67	AV
15960	48.57	-0.06	H	48.51	73.98	25.47	PK
15960	36.32	-0.06	H	36.26	53.98	17.72	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	56.95	-0.34	V	56.61	68.20	11.59	PK
15780	47.30	-0.91	V	46.39	73.98	27.59	PK
15780	35.94	-0.91	V	35.03	53.98	18.95	AV
10520	56.27	-0.34	H	55.93	68.20	12.27	PK
15780	47.14	-0.91	H	46.23	73.98	27.75	PK
15780	35.78	-0.91	H	34.87	53.98	19.11	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	58.55	0.01	V	58.56	73.98	15.42	PK
10600	45.45	0.01	V	45.46	53.98	8.52	AV
15900	48.94	0.35	V	49.29	73.98	24.69	PK
15900	36.84	0.35	V	37.19	53.98	16.79	AV
10600	58.27	0.01	H	58.28	73.98	15.70	PK
10600	45.26	0.01	H	45.27	53.98	8.71	AV
15900	48.61	0.35	H	48.96	73.98	25.02	PK
15900	36.57	0.35	H	36.92	53.98	17.06	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	58.24	0.12	V	58.36	73.98	15.62	PK
10640	44.71	0.12	V	44.83	53.98	9.15	AV
15960	48.15	-0.06	V	48.09	73.98	25.89	PK
15960	36.66	-0.06	V	36.60	53.98	17.38	AV
10640	57.83	0.12	H	57.95	73.98	16.03	PK
10640	44.21	0.12	H	44.33	53.98	9.65	AV
15960	47.91	-0.06	H	47.85	73.98	26.13	PK
15960	36.19	-0.06	H	36.13	53.98	17.85	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5260MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	56.41	-0.34	V	56.07	68.20	12.13	PK
15780	47.43	-0.91	V	46.52	73.98	27.46	PK
15780	35.68	-0.91	V	34.77	53.98	19.21	AV
10520	56.19	-0.34	H	55.85	68.20	12.35	PK
15780	47.11	-0.91	H	46.20	73.98	27.78	PK
15780	35.28	-0.91	H	34.37	53.98	19.61	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	58.02	0.01	V	58.03	73.98	15.95	PK
10600	45.22	0.01	V	45.23	53.98	8.75	AV
15900	48.65	0.35	V	49.00	73.98	24.98	PK
15900	36.84	0.35	V	37.19	53.98	16.79	AV
10600	57.91	0.01	H	57.92	73.98	16.06	PK
10600	45.10	0.01	H	45.11	53.98	8.87	AV
15900	48.24	0.35	H	48.59	73.98	25.39	PK
15900	36.53	0.35	H	36.88	53.98	17.10	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	57.96	0.12	V	58.08	73.98	15.90	PK
10640	44.64	0.12	V	44.76	53.98	9.22	AV
15960	48.36	-0.06	V	48.30	73.98	25.68	PK
15960	36.68	-0.06	V	36.62	53.98	17.36	AV
10640	57.42	0.12	H	57.54	73.98	16.44	PK
10640	44.31	0.12	H	44.43	53.98	9.55	AV
15960	48.08	-0.06	H	48.02	73.98	25.96	PK
15960	36.28	-0.06	H	36.22	53.98	17.76	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	53.41	-0.45	V	52.96	68.20	15.24	PK
15810	48.72	-0.45	V	48.27	73.98	25.71	PK
15810	37.34	-0.13	V	37.21	53.98	16.77	AV
10540	53.04	-0.45	H	52.59	68.20	15.61	PK
15810	48.46	-0.45	H	48.01	73.98	25.97	PK
15810	37.17	-0.13	H	37.04	53.98	16.94	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	52.22	0.09	V	52.31	73.98	21.67	PK
10620	40.62	0.09	V	40.71	53.98	13.27	AV
15930	48.87	-0.26	V	48.61	73.98	25.37	PK
15930	37.27	-0.26	V	37.01	53.98	16.97	AV
10620	51.67	0.09	H	51.76	73.98	22.22	PK
10620	40.22	0.09	H	40.31	53.98	13.67	AV
15930	48.52	-0.26	H	48.26	73.98	25.72	PK
15930	36.98	-0.26	H	36.72	53.98	17.26	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	53.26	-0.45	V	52.81	68.20	15.39	PK
15810	50.44	-0.45	V	49.99	73.98	23.99	PK
15810	37.40	-0.13	V	37.27	53.98	16.71	AV
10540	52.33	-0.45	H	51.88	68.20	16.32	PK
15810	50.24	-0.45	H	49.79	73.98	24.19	PK
15810	37.11	-0.13	H	36.98	53.98	17.00	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	51.91	0.09	V	52.00	73.98	21.98	PK
10620	40.46	0.09	V	40.55	53.98	13.43	AV
15930	48.95	-0.26	V	48.69	73.98	25.29	PK
15930	37.60	-0.26	V	37.34	53.98	16.64	AV
10620	51.26	0.09	H	51.35	73.98	22.63	PK
10620	39.78	0.09	H	39.87	53.98	14.11	AV
15930	48.53	-0.26	H	48.27	73.98	25.71	PK
15930	37.15	-0.26	H	36.89	53.98	17.09	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	52.12	0.23	V	52.35	68.20	15.85	PK
15870	47.87	-0.53	V	47.34	73.98	26.64	PK
15870	35.74	-0.53	V	35.21	53.98	18.77	AV
10580	51.67	0.23	H	51.90	68.20	16.30	PK
15870	47.51	-0.53	H	46.98	73.98	27.00	PK
15870	35.29	-0.53	H	34.76	53.98	19.22	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	59.02	0.64	V	59.66	73.98	14.32	PK
11000	46.05	0.64	V	46.69	53.98	7.29	AV
16500	48.69	1.79	V	50.48	68.20	17.72	PK
11000	58.61	0.64	H	59.25	73.98	14.73	PK
11000	45.83	0.64	H	46.47	53.98	7.51	AV
16500	48.27	1.79	H	50.06	68.20	18.14	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5600 MHz
Channel No.	120 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	56.65	0.96	V	57.61	73.98	16.37	PK
11200	45.38	0.96	V	46.34	53.98	7.64	AV
16800	46.78	5.34	V	52.12	68.20	16.08	PK
11200	56.08	0.96	H	57.04	73.98	16.94	PK
11200	44.93	0.96	H	45.89	53.98	8.09	AV
16800	46.27	5.34	H	51.61	68.20	16.59	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	56.45	1.51	V	57.96	73.98	16.02	PK
11400	44.59	1.51	V	46.10	53.98	7.88	AV
17100	47.92	8.07	V	55.99	68.20	12.21	PK
11400	56.13	1.51	H	57.64	73.98	16.34	PK
11400	44.27	1.51	H	45.78	53.98	8.20	AV
17100	47.67	8.07	H	55.74	68.20	12.46	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	60.77	0.64	V	61.41	73.98	12.57	PK
11000	45.43	0.64	V	46.07	53.98	7.91	AV
16500	49.09	1.79	V	50.88	68.20	17.32	PK
11000	60.24	0.64	H	60.88	73.98	13.10	PK
11000	45.12	0.64	H	45.76	53.98	8.22	AV
16500	48.55	1.79	H	50.34	68.20	17.86	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5600 MHz
Channel No.	120 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	56.77	0.96	V	57.73	73.98	16.25	PK
11200	44.06	0.96	V	45.02	53.98	8.96	AV
16800	47.44	5.34	V	52.78	68.20	15.42	PK
11200	56.37	0.96	H	57.33	73.98	16.65	PK
11200	43.51	0.96	H	44.47	53.98	9.51	AV
16800	47.22	5.34	H	52.56	68.20	15.64	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	58.77	1.51	V	60.28	73.98	13.70	PK
11400	44.08	1.51	V	45.59	53.98	8.39	AV
17100	48.19	8.07	V	56.26	68.20	11.94	PK
11400	58.25	1.51	H	59.76	73.98	14.22	PK
11400	43.62	1.51	H	45.13	53.98	8.85	AV
17100	47.76	8.07	H	55.83	68.20	12.37	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5500MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	59.60	0.64	V	60.24	73.98	13.74	PK
11000	45.45	0.64	V	46.09	53.98	7.89	AV
16500	48.11	1.79	V	49.90	68.20	18.30	PK
11000	59.16	0.64	H	59.80	73.98	14.18	PK
11000	45.03	0.64	H	45.67	53.98	8.31	AV
16500	47.99	1.79	H	49.78	68.20	18.42	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5600 MHz
Channel No.	120 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	57.22	0.96	V	58.18	73.98	15.80	PK
11200	44.30	0.96	V	45.26	53.98	8.72	AV
16800	47.45	5.34	V	52.79	68.20	15.41	PK
11200	56.91	0.96	H	57.87	73.98	16.11	PK
11200	43.99	0.96	H	44.95	53.98	9.03	AV
16800	47.15	5.34	H	52.49	68.20	15.71	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	56.78	1.51	V	58.29	73.98	15.69	PK
11400	43.83	1.51	V	45.34	53.98	8.64	AV
17100	48.00	8.07	V	56.07	68.20	12.13	PK
11400	56.34	1.51	H	57.85	73.98	16.13	PK
11400	43.25	1.51	H	44.76	53.98	9.22	AV
17100	47.93	8.07	H	56.00	68.20	12.20	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	54.46	1.28.	V	54.46	73.98	19.52	PK
11020	42.79	1.28	V	44.07	53.98	9.91	AV
16530	46.92	3.85	V	50.77	68.20	17.43	PK
11020	54.09	1.28.	H	54.09	73.98	19.89	PK
11020	42.38	1.28	H	43.66	53.98	10.32	AV
16530	46.51	3.85	H	50.36	68.20	17.84	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5590 MHz
Channel No.	118 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	53.39	0.15	V	53.54	73.98	20.44	PK
11180	42.35	0.15	V	42.50	53.98	11.48	AV
16770	47.46	3.60	V	51.06	68.20	17.14	PK
11180	52.91	0.15	H	53.06	73.98	20.92	PK
11180	41.83	0.15	H	41.98	53.98	12.00	AV
16770	47.19	3.60	H	50.79	68.20	17.41	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5670 MHz
Channel No.	134 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11340	53.30	1.79	V	55.09	73.98	18.89	PK
11340	41.07	1.79	V	42.86	53.98	11.12	AV
17010	48.49	5.67	V	54.16	68.20	14.04	PK
11340	52.64	1.79	H	54.43	73.98	19.55	PK
11340	40.57	1.79	H	42.36	53.98	11.62	AV
17010	48.11	5.67	H	53.78	68.20	14.42	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	54.63	1.28.	V	54.63	73.98	19.35	PK
11020	42.93	1.28	V	44.21	53.98	9.77	AV
16530	46.97	3.85	V	50.82	68.20	17.38	PK
11020	53.18	1.28.	H	53.18	73.98	20.80	PK
11020	42.27	1.28	H	43.55	53.98	10.43	AV
16530	46.57	3.85	H	50.42	68.20	17.78	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5590 MHz
Channel No.	118 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	53.33	0.15	V	53.48	73.98	20.50	PK
11180	42.36	0.15	V	42.51	53.98	11.47	AV
16770	47.44	3.60	V	51.04	68.20	17.16	PK
11180	52.95	0.15	H	53.10	73.98	20.88	PK
11180	41.92	0.15	H	42.07	53.98	11.91	AV
16770	47.13	3.60	H	50.73	68.20	17.47	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5670 MHz
Channel No.	134 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11340	53.16	1.79	V	54.95	73.98	19.03	PK
11340	41.44	1.79	V	43.23	53.98	10.75	AV
17010	48.61	5.67	V	54.28	68.20	13.92	PK
11340	52.91	1.79	H	54.70	73.98	19.28	PK
11340	41.09	1.79	H	42.88	53.98	11.10	AV
17010	48.15	5.67	H	53.82	68.20	14.38	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	52.78	0.85	V	53.63	73.98	20.35	PK
11060	40.04	0.85	V	40.89	53.98	13.09	AV
16590	47.69	2.38	V	50.07	68.20	18.13	PK
11060	51.73	0.85	H	52.58	73.98	21.40	PK
11060	39.55	0.85	H	40.40	53.98	13.58	AV
16590	47.23	2.38	H	49.61	68.20	18.59	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5610 MHz
Channel No.	122 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11220	52.12	2.01	V	54.13	73.98	19.85	PK
11220	40.42	2.01	V	42.43	53.98	11.55	AV
16830	47.56	4.25	V	51.81	68.20	16.39	PK
11220	51.27	2.01	H	53.28	73.98	20.70	PK
11220	39.94	2.01	H	41.95	53.98	12.03	AV
16830	47.13	4.25	H	51.38	68.20	16.82	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5745MHz
Channel No.	149 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	56.34	0.32	V	56.66	73.98	17.32	PK
11490	44.92	0.32	V	45.24	53.98	8.74	AV
17235	48.61	5.06	V	53.67	68.20	14.53	PK
11490	55.68	0.32	H	56.00	73.98	17.98	PK
11490	44.25	0.32	H	44.57	53.98	9.41	AV
17235	48.39	5.06	H	53.45	68.20	14.75	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	56.55	0.81	V	57.36	73.98	16.62	PK
11570	44.63	0.81	V	45.44	53.98	8.54	AV
17355	47.66	5.77	V	53.43	68.20	14.77	PK
11570	56.19	0.81	H	57.00	73.98	16.98	PK
11570	44.27	0.81	H	45.08	53.98	8.90	AV
17355	47.31	5.77	H	53.08	68.20	15.12	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	55.79	0.83	V	56.62	73.98	17.36	PK
11650	43.96	0.83	V	44.79	53.98	9.19	AV
17475	47.74	5.34	V	53.08	68.20	15.12	PK
11650	55.26	0.83	H	56.09	73.98	17.89	PK
11650	43.38	0.83	H	44.21	53.98	9.77	AV
17475	47.18	5.34	H	52.52	68.20	15.68	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	58.19	0.32	V	58.51	73.98	15.47	PK
11490	44.02	0.32	V	44.34	53.98	9.64	AV
17235	48.56	5.06	V	53.62	68.20	14.58	PK
11490	57.94	0.32	H	58.26	73.98	15.72	PK
11490	43.53	0.32	H	43.85	53.98	10.13	AV
17235	48.15	5.06	H	53.21	68.20	14.99	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	58.46	0.81	V	59.27	73.98	14.71	PK
11570	44.05	0.81	V	44.86	53.98	9.12	AV
17355	48.67	5.77	V	54.44	68.20	13.76	PK
11570	57.60	0.81	H	58.41	73.98	15.57	PK
11570	43.51	0.81	H	44.32	53.98	9.66	AV
17355	48.26	5.77	H	54.03	68.20	14.17	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	57.54	0.83	V	58.37	73.98	15.61	PK
11650	43.65	0.83	V	44.48	53.98	9.50	AV
17475	47.15	5.34	V	52.49	68.20	15.71	PK
11650	57.14	0.83	H	57.97	73.98	16.01	PK
11650	43.29	0.83	H	44.12	53.98	9.86	AV
17475	47.09	5.34	H	52.43	68.20	15.77	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	57.49	0.32	V	57.81	73.98	16.17	PK
11490	43.93	0.32	V	44.25	53.98	9.73	AV
17235	49.10	5.06	V	54.16	68.20	14.04	PK
11490	57.11	0.32	H	57.43	73.98	16.55	PK
11490	43.52	0.32	H	43.84	53.98	10.14	AV
17235	48.83	5.06	H	53.89	68.20	14.31	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	58.62	0.81	V	59.43	73.98	14.55	PK
11570	44.26	0.81	V	45.07	53.98	8.91	AV
17355	47.04	5.77	V	52.81	68.20	15.39	PK
11570	57.93	0.81	H	58.74	73.98	15.24	PK
11570	43.92	0.81	H	44.73	53.98	9.25	AV
17355	46.82	5.77	H	52.59	68.20	15.61	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	55.91	0.83	V	56.74	73.98	17.24	PK
11650	42.31	0.83	V	43.14	53.98	10.84	AV
17475	46.95	5.34	V	52.29	68.20	15.91	PK
11650	55.27	0.83	H	56.10	73.98	17.88	PK
11650	42.05	0.83	H	42.88	53.98	11.10	AV
17475	46.76	5.34	H	52.10	68.20	16.10	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII3
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	52.01	0.99	V	53.00	73.98	20.98	PK
11510	40.32	0.99	V	41.31	53.98	12.67	AV
17265	47.70	5.65	V	53.35	68.20	14.85	PK
11510	51.60	0.99	H	52.59	73.98	21.39	PK
11510	39.89	0.99	H	40.88	53.98	13.10	AV
17265	47.56	5.65	H	53.21	68.20	14.99	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	52.55	0.71	V	53.26	73.98	20.72	PK
11590	40.65	0.71	V	41.36	53.98	12.62	AV
17385	48.25	5.21	V	53.46	68.20	14.74	PK
11590	51.93	0.71	H	52.64	73.98	21.34	PK
11590	39.07	0.71	H	39.78	53.98	14.20	AV
17385	47.95	5.21	H	53.16	68.20	15.04	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	51.20	0.99	V	52.19	73.98	21.79	PK
11510	40.42	0.99	V	41.41	53.98	12.57	AV
17265	47.28	5.65	V	52.93	68.20	15.27	PK
11510	50.81	0.99	H	51.80	73.98	22.18	PK
11510	39.96	0.99	H	40.95	53.98	13.03	AV
17265	46.95	5.65	H	52.60	68.20	15.60	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	51.78	0.71	V	52.49	73.98	21.49	PK
11590	40.84	0.71	V	41.55	53.98	12.43	AV
17385	48.40	5.21	V	53.61	68.20	14.59	PK
11590	51.27	0.71	H	51.98	73.98	22.00	PK
11590	40.27	0.71	H	40.98	53.98	13.00	AV
17385	47.96	5.21	H	53.17	68.20	15.03	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5775 MHz
Channel No.	155 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	50.31	1.33	V	51.64	73.98	22.34	PK
11550	38.91	1.33	V	40.24	53.98	13.74	AV
17325	48.45	5.48	V	53.93	68.20	14.27	PK
11550	49.58	1.33	H	50.91	73.98	23.07	PK
11550	38.64	1.33	H	39.97	53.98	14.01	AV
17325	48.11	5.48	H	53.59	68.20	14.61	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

[Tablet+keyboard cover(kickstand)]

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	56.93	0.64	V	57.57	73.98	16.41	PK
11000	44.53	0.64	V	45.17	53.98	8.81	AV
11000	54.51	0.64	H	55.15	73.98	18.83	PK
11000	42.23	0.64	H	42.87	53.98	11.11	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	57.67	0.64	V	58.31	73.98	15.67	PK
11000	44.20	0.64	V	44.84	53.98	9.14	AV
11000	56.69	0.64	H	57.33	73.98	16.65	PK
11000	43.11	0.64	H	43.75	53.98	10.23	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	57.15	0.64	V	57.79	73.98	16.19	PK
11000	44.19	0.64	V	44.83	53.98	9.15	AV
11000	56.26	0.64	H	56.90	73.98	17.08	PK
11000	43.87	0.64	H	44.51	53.98	9.47	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	53.53	1.28.	V	53.53	73.98	20.45	PK
11020	41.31	1.28	V	42.59	53.98	11.39	AV
11020	52.69	1.28.	H	52.69	73.98	21.29	PK
11020	40.55	1.28	H	41.83	53.98	12.15	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	53.48	1.28.	V	53.48	73.98	20.50	PK
11020	41.27	1.28	V	42.55	53.98	11.43	AV
11020	52.86	1.28.	H	52.86	73.98	21.12	PK
11020	40.84	1.28	H	42.12	53.98	11.86	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5610 MHz
Channel No.	122 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11220	51.70	2.01	V	53.71	73.98	20.27	PK
11220	39.42	2.01	V	41.43	53.98	12.55	AV
11220	50.99	2.01	H	53.00	73.98	20.98	PK
11220	38.68	2.01	H	40.69	53.98	13.29	AV

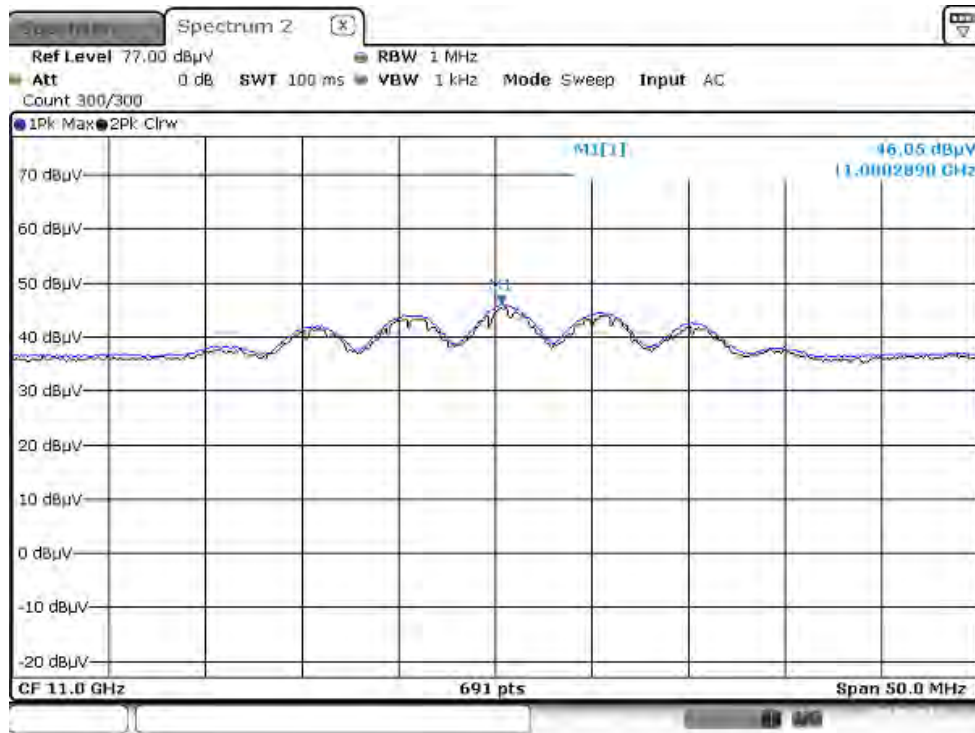
*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

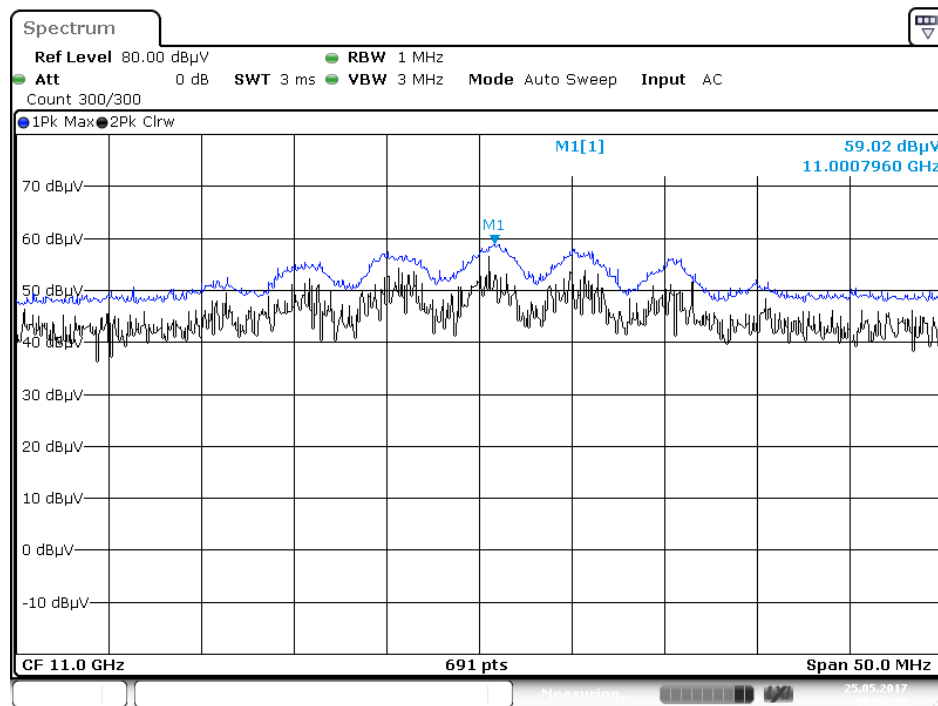
1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

■ **RESULT PLOTS(Only Tablet)**

Radiated Spurious Emissions plot –Average Reading (802.11a, Ch.100 2nd Harmonic, X-V)

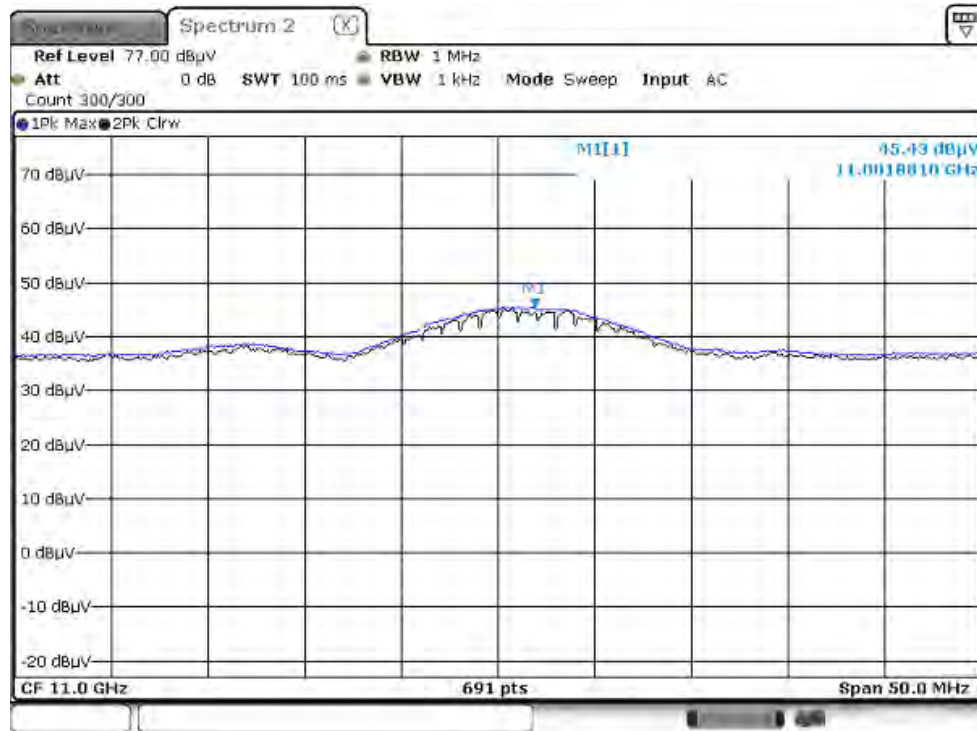


Radiated Spurious Emissions plot –Peak Reading (802.11a, Ch.100 2nd Harmonic, X-V)

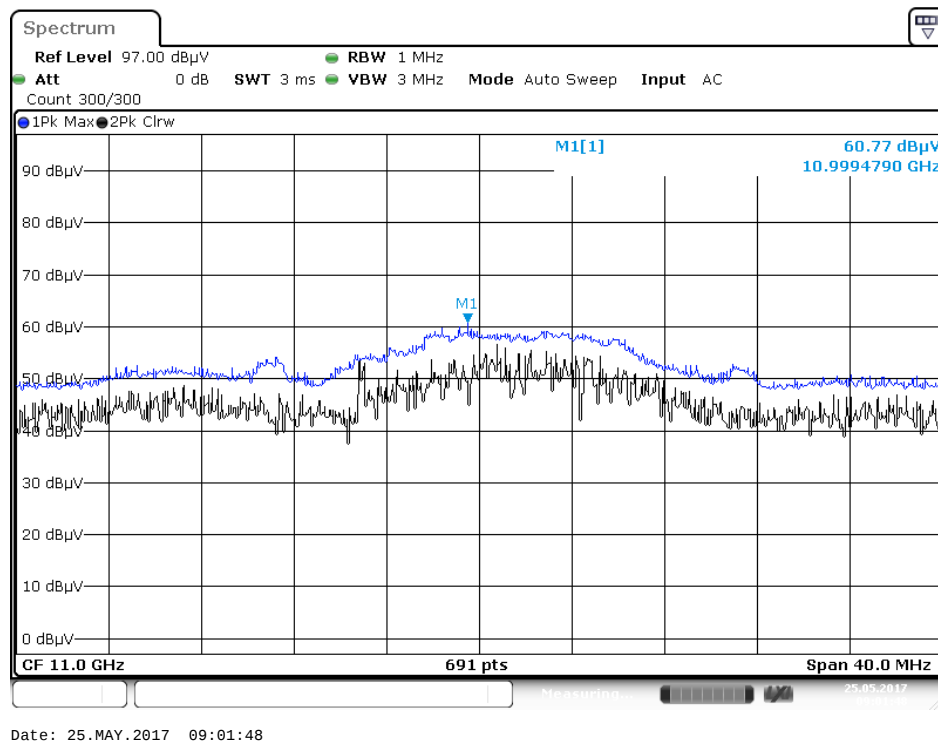


Date: 25.MAY.2017 08:57:21

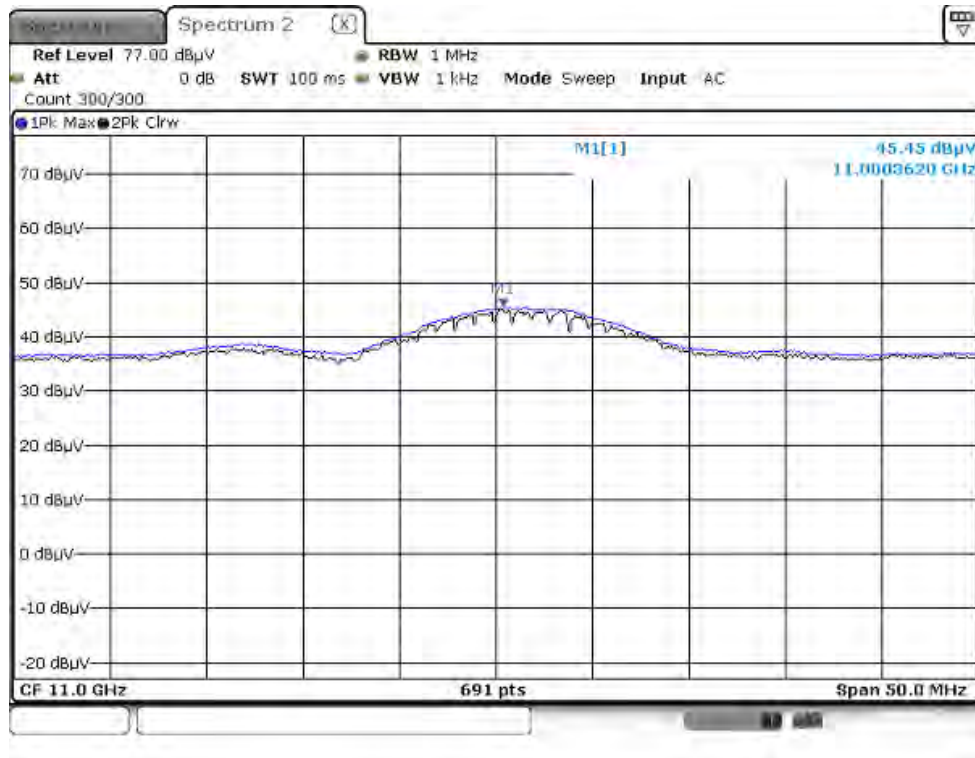
Radiated Spurious Emissions plot – Average Reading(802.11n_HT20, Ch.100 2nd Harmonic, X-V)



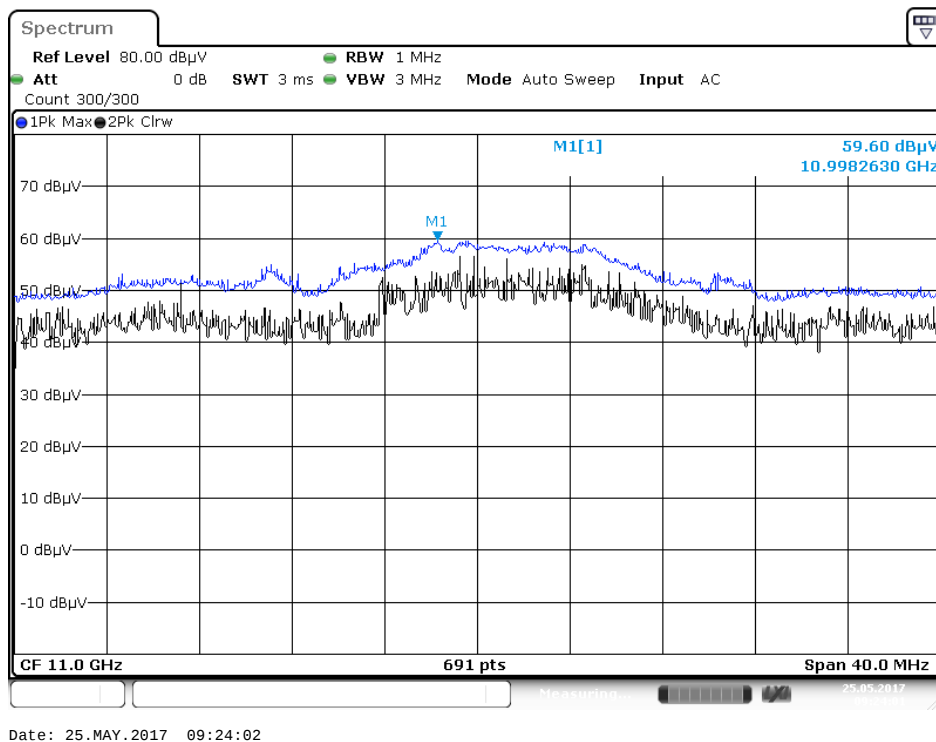
Radiated Spurious Emissions plot – Peak Reading(802.11n_HT20, Ch.100 2nd Harmonic, X-V)



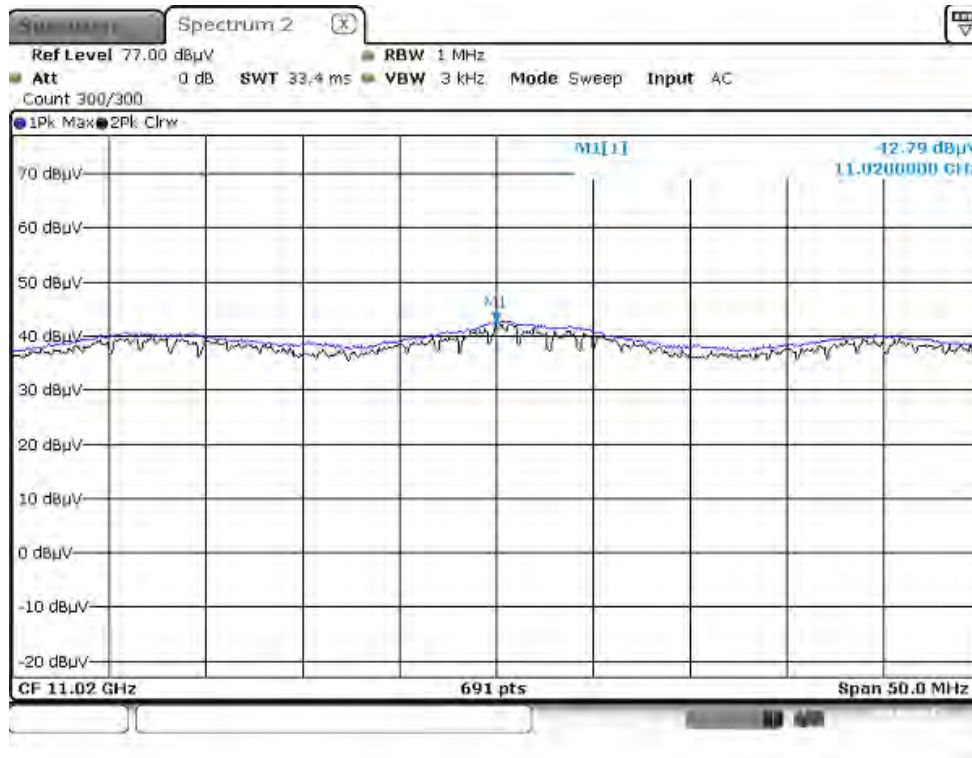
Radiated Spurious Emissions plot –Average Reading (802.11ac_VHT20, Ch.100 2nd Harmonic, X-V)



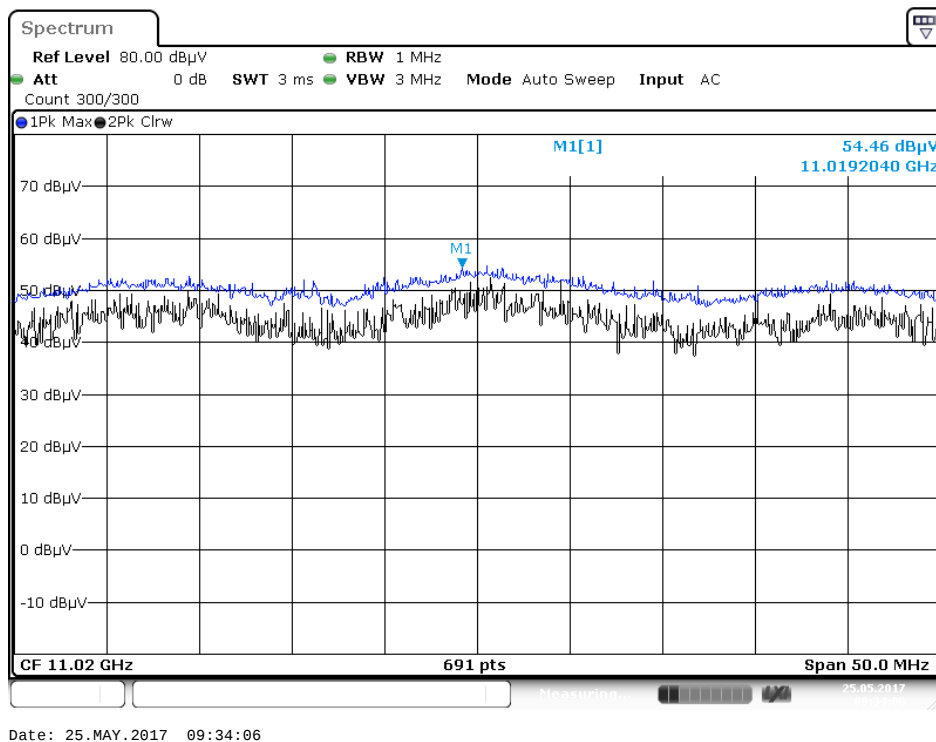
Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT20, Ch.100 2nd Harmonic, X-V)



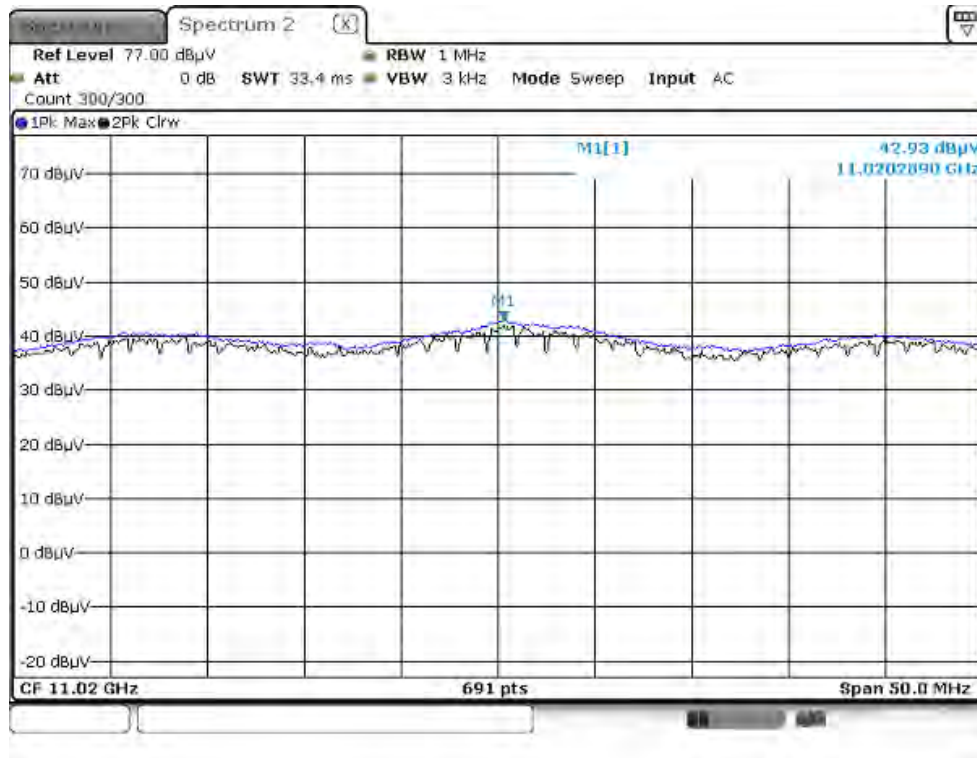
Radiated Spurious Emissions plot – Average Reading (802.11n_HT40, Ch.102 2nd Harmonic, X-V)



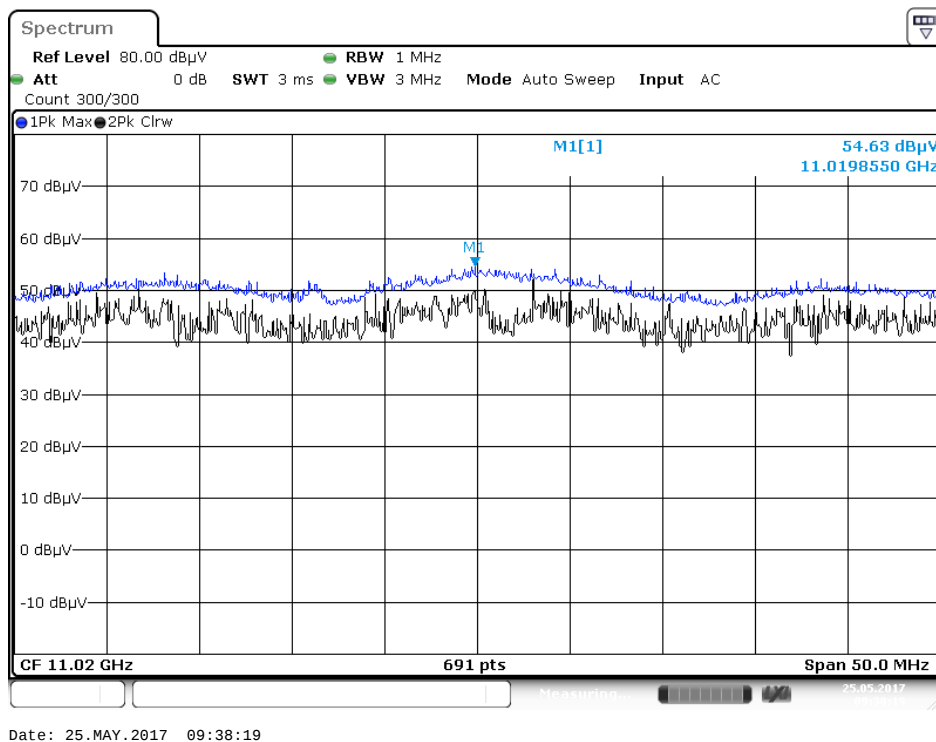
Radiated Spurious Emissions plot – Peak Reading (802.11n_HT40, Ch.102 2nd Harmonic, X-V)



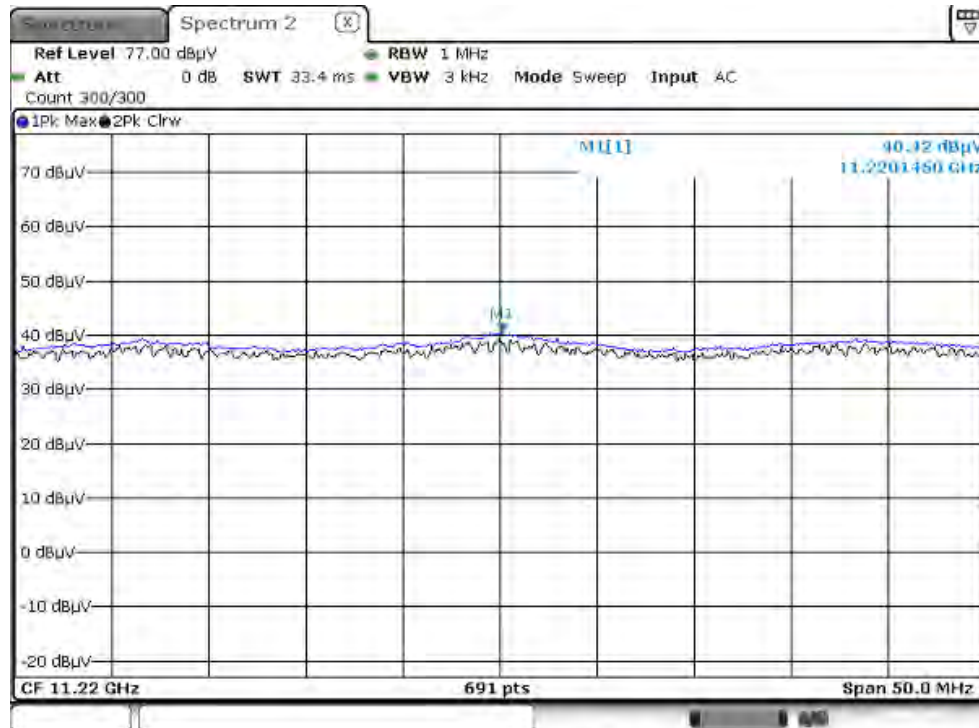
Radiated Spurious Emissions plot –Average Reading (802.11ac_VHT40, Ch.102 2nd Harmonic, X-V)



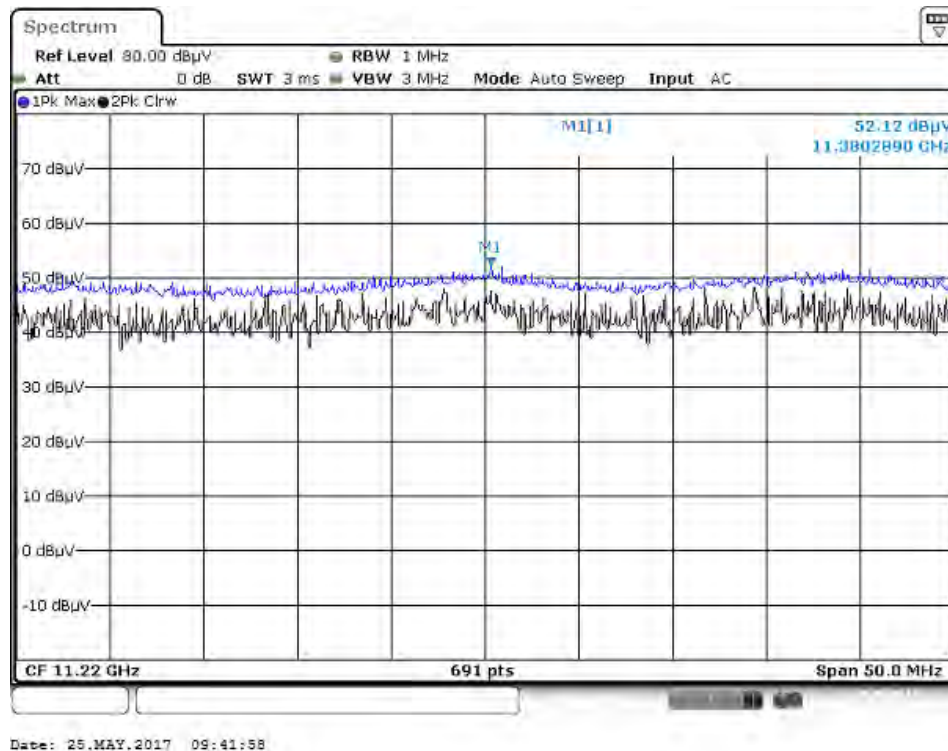
Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT40, Ch.102 2nd Harmonic, X-V)



Radiated Spurious Emissions plot –Average Reading (802.11ac_VHT80, Ch.122 2nd Harmonic, X-V)



Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT80, Ch.122 2nd Harmonic, X-V)



Note : Only the worst case plots for Radiated Spurious Emissions.

9.6.2 RADIATED RESTRICTED BAND EDGE MEASUREMENTS**Test Requirements and limit, §15.247(d) §15.205, §15.209**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c)).

[Only tablet]

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	56.58	-3.11	H	53.47	73.98	20.51	PK
5150	46.07	-3.11	H	42.96	53.98	11.02	AV
5150	55.23	-3.11	V	52.12	73.98	21.86	PK
5150	45.10	-3.11	V	41.99	53.98	11.99	AV

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	56.42	-3.11	H	53.31	73.98	20.67	PK
5150	45.89	-3.11	H	42.78	53.98	11.20	AV
5150	55.34	-3.11	V	52.23	73.98	21.75	PK
5150	44.81	-3.11	V	41.7	53.98	12.28	AV

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	57.46	-3.11	H	54.35	73.98	19.63	PK
5150	46.71	-3.11	H	43.6	53.98	10.38	AV
5150	55.99	-3.11	V	52.88	73.98	21.10	PK
5150	45.50	-3.11	V	42.39	53.98	11.59	AV

Band :	UNII 1
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	62.11	-3.11	H	59.00	73.98	14.98	PK
5150	46.54	-3.11	H	43.43	53.98	10.55	AV
5150	63.80	-3.11	V	60.69	73.98	13.29	PK
5150	47.25	-3.11	V	44.14	53.98	9.84	AV

Band :	UNII 1
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	60.39	-3.11	H	57.28	73.98	16.70	PK
5150	47.35	-3.11	H	44.24	53.98	9.74	AV
5150	59.31	-3.11	V	56.2	73.98	17.78	PK
5150	46.25	-3.11	V	43.14	53.98	10.84	AV

Band :	UNII 1
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	60.41	-3.11	H	57.30	73.98	16.68	PK
5150	48.87	-3.11	H	45.76	53.98	8.22	AV
5150	59.31	-3.11	V	56.2	73.98	17.78	PK
5150	47.18	-3.11	V	44.07	53.98	9.91	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	60.20	-2.86	H	57.34	73.98	16.64	PK
5350	49.46	-2.86	H	46.6	53.98	7.38	AV
5350	58.91	-2.86	V	56.05	73.98	17.93	PK
5350	47.67	-2.86	V	44.81	53.98	9.17	AV

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	59.63	-2.86	H	56.77	73.98	17.21	PK
5350	49.57	-2.86	H	46.71	53.98	7.27	AV
5350	58.48	-2.86	V	55.62	73.98	18.36	PK
5350	48.12	-2.86	V	45.26	53.98	8.72	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	61.42	-2.86	H	58.56	73.98	15.42	PK
5350	49.63	-2.86	H	46.77	53.98	7.21	AV
5350	59.31	-2.86	V	56.45	73.98	17.53	PK
5350	48.24	-2.86	V	45.38	53.98	8.60	AV

Band :	UNII 2A
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	66.73	-2.86	H	63.87	73.98	10.11	PK
5350	50.40	-2.86	H	47.54	53.98	6.44	AV
5350	65.37	-2.86	V	62.51	73.98	11.47	PK
5350	48.61	-2.86	V	45.75	53.98	8.23	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	66.55	-2.86	H	63.69	73.98	10.29	PK
5350	50.48	-2.86	H	47.62	53.98	6.36	AV
5350	65.18	-2.86	V	62.32	73.98	11.66	PK
5350	48.39	-2.86	V	45.53	53.98	8.45	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	62.78	-2.86	H	59.92	73.98	14.06	PK
5350	51.05	-2.86	H	48.19	53.98	5.79	AV
5350	62.44	-2.86	V	59.58	73.98	14.40	PK
5350	49.53	-2.86	V	46.67	53.98	7.31	AV

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	56.91	-2.20	H	54.71	73.98	19.27	PK
5460	45.84	-2.20	H	43.64	53.98	10.34	AV
*5470	58.61	-2.10	H	56.51	68.20	11.69	PK
5460	57.96	-2.20	V	55.76	73.98	18.22	PK
5460	46.83	-2.20	V	44.63	53.98	9.35	AV
*5470	59.87	-2.10	V	57.77	68.20	10.43	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	58.31	-2.20	H	56.11	73.98	17.87	PK
5460	46.26	-2.20	H	44.06	53.98	9.92	AV
*5470	59.10	-2.10	H	57	68.20	11.20	PK
5460	59.13	-2.20	V	56.93	73.98	17.05	PK
5460	47.71	-2.20	V	45.51	53.98	8.47	AV
*5470	60.87	-2.10	V	58.77	68.20	9.43	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	57.67	-2.20	H	55.47	73.98	18.51	PK
5460	46.13	-2.20	H	43.93	53.98	10.05	AV
*5470	58.91	-2.10	H	56.81	68.20	11.39	PK
5460	58.39	-2.20	V	56.19	73.98	17.79	PK
5460	47.22	-2.20	V	45.02	53.98	8.96	AV
*5470	59.92	-2.10	V	57.82	68.20	10.38	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	64.94	-2.20	H	62.74	73.98	11.24	PK
5460	46.61	-2.20	H	44.41	53.98	9.57	AV
*5470	67.68	-2.10	H	65.58	73.98	8.40	PK
*5470	47.85	-2.10	H	45.75	53.98	8.23	AV
5460	63.81	-2.20	V	61.61	73.98	12.37	PK
5460	45.79	-2.20	V	43.59	53.98	10.39	AV
*5470	66.81	-2.10	V	64.71	73.98	9.27	PK
*5470	47.11	-2.10	V	45.01	53.98	8.97	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	63.40	-2.20	H	61.20	73.98	12.78	PK
5460	46.67	-2.20	H	44.47	53.98	9.51	AV
*5470	67.51	-2.10	H	65.41	73.98	8.57	PK
*5470	47.04	-2.10	H	44.94	53.98	9.04	AV
5460	62.28	-2.20	V	60.08	73.98	13.90	PK
5460	45.67	-2.20	V	43.47	53.98	10.51	AV
*5470	66.46	-2.10	V	64.36	73.98	9.62	PK
*5470	46.58	-2.10	V	44.48	53.98	9.50	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	60.13	-2.20	H	57.93	73.98	16.05	PK
5460	48.31	-2.20	H	46.11	53.98	7.87	AV
*5470	60.15	-2.10	H	58.05	73.98	15.93	PK
*5470	48.61	-2.10	H	46.51	53.98	7.47	AV
5460	61.76	-2.20	V	59.56	73.98	14.42	PK
5460	49.47	-2.20	V	47.27	53.98	6.71	AV
*5470	61.10	-2.10	V	59	73.98	14.98	PK
*5470	49.24	-2.10	V	47.14	53.98	6.84	AV

[Tablet+keyboard cover(kickstand)]

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	67.24	-2.86	V	64.38	73.98	9.60	PK
5350	48.22	-2.86	V	45.36	53.98	8.62	AV

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT + Distance Factor
2. We have done all data rate in 802.11a/n/ac mode test. . Worst case of EUT is lowest data rate in 802.11a/n/ac.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. '*' is radiated band edge test frequency.(not restricted band emissions)

■ **RESULT PLOTS(Worst case : Y-H, Only tablet)**

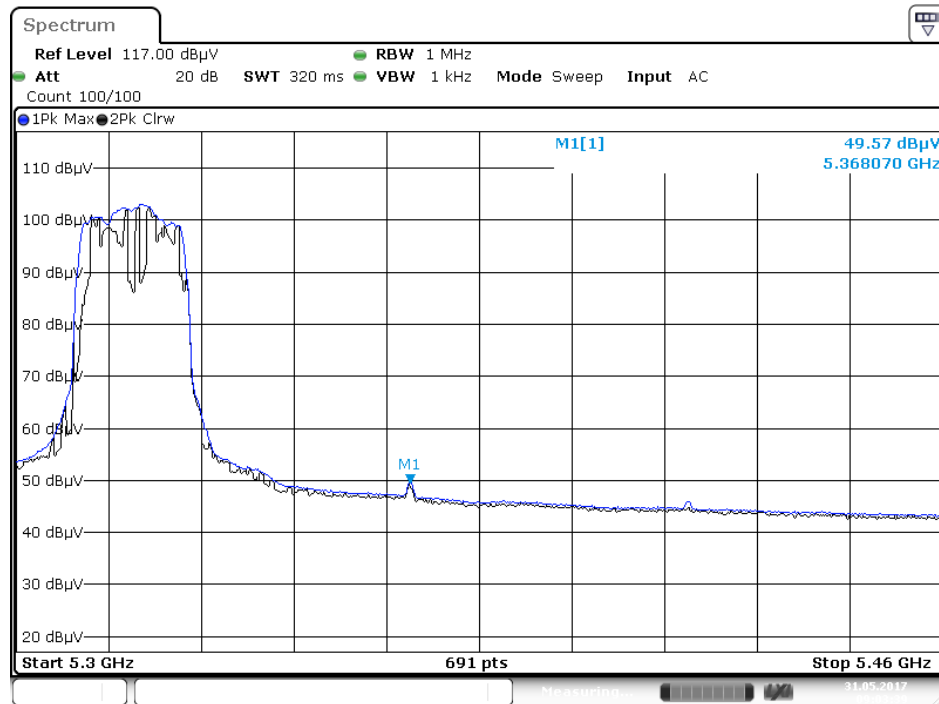
Radiated Restricted Band Edges plot – Average Reading (802.11a, Ch.64)



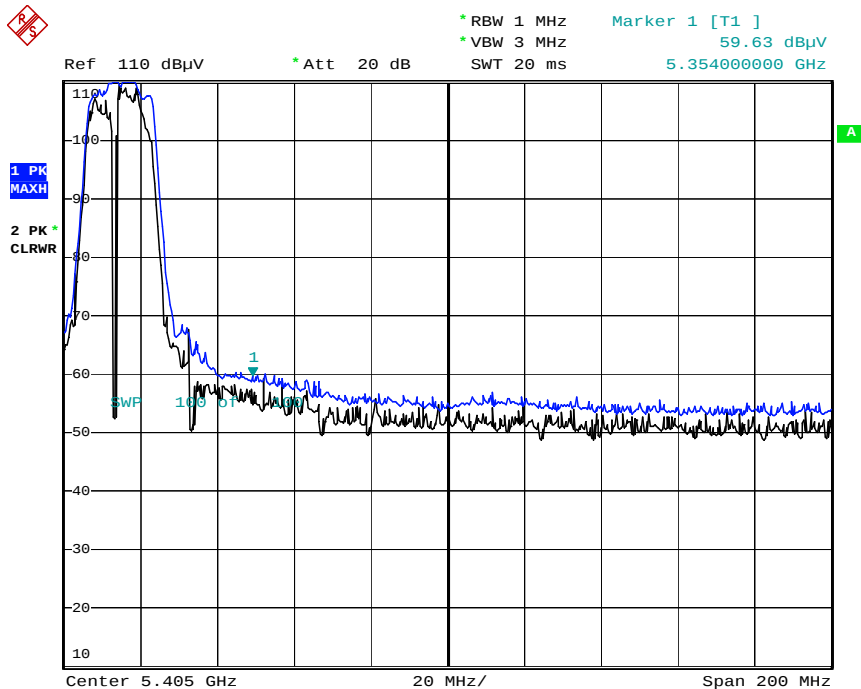
Radiated Restricted Band Edges plot – Peak Reading (802.11a, Ch.64)



Radiated Restricted Band Edges plot – Average Reading (802.11n_HT20, Ch.64)

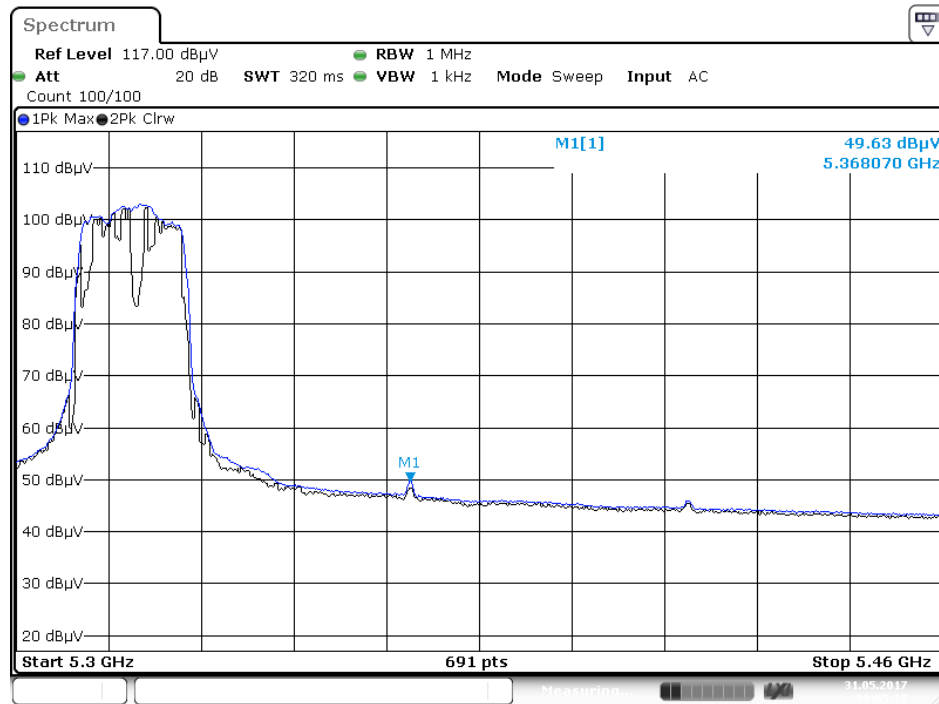


Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT20, Ch.64)

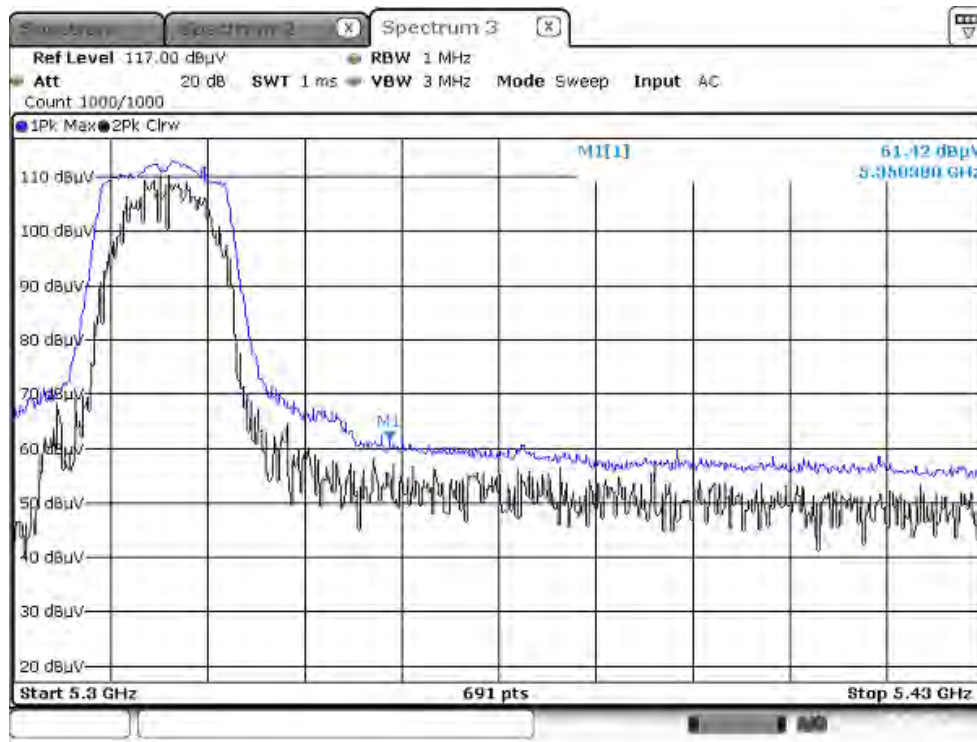


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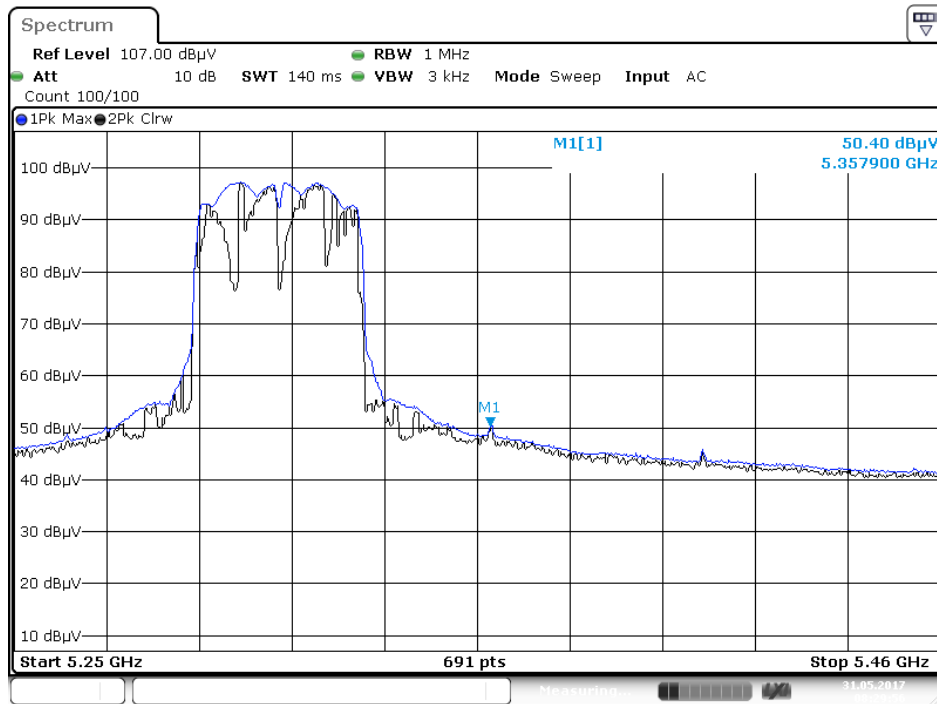
Radiated Restricted Band Edges plot – Average Reading (802.11ac_VHT20, Ch.64)



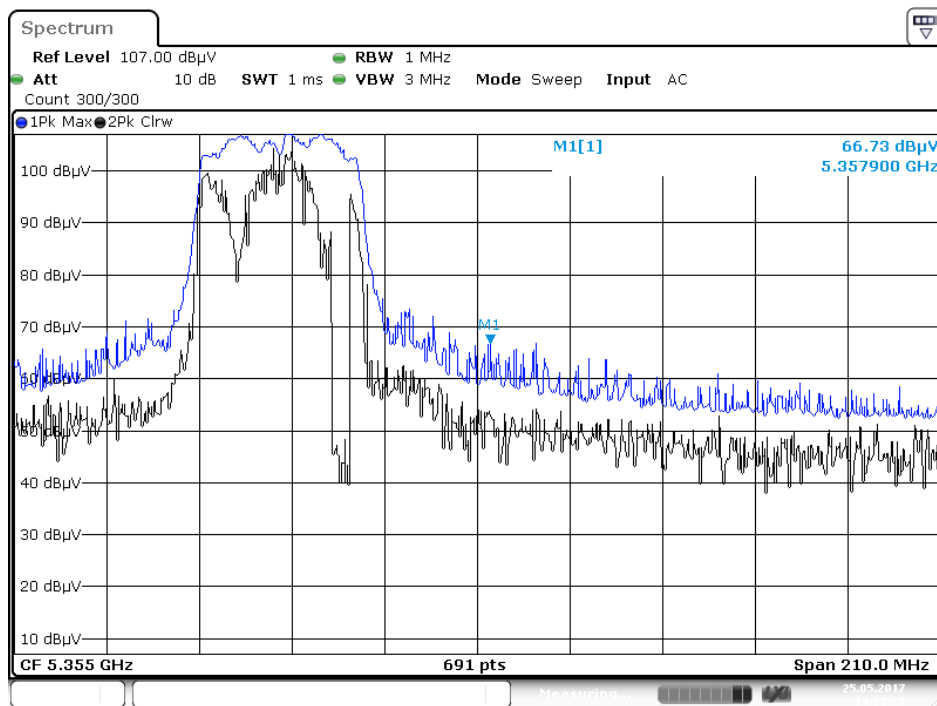
Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT20, Ch.64)



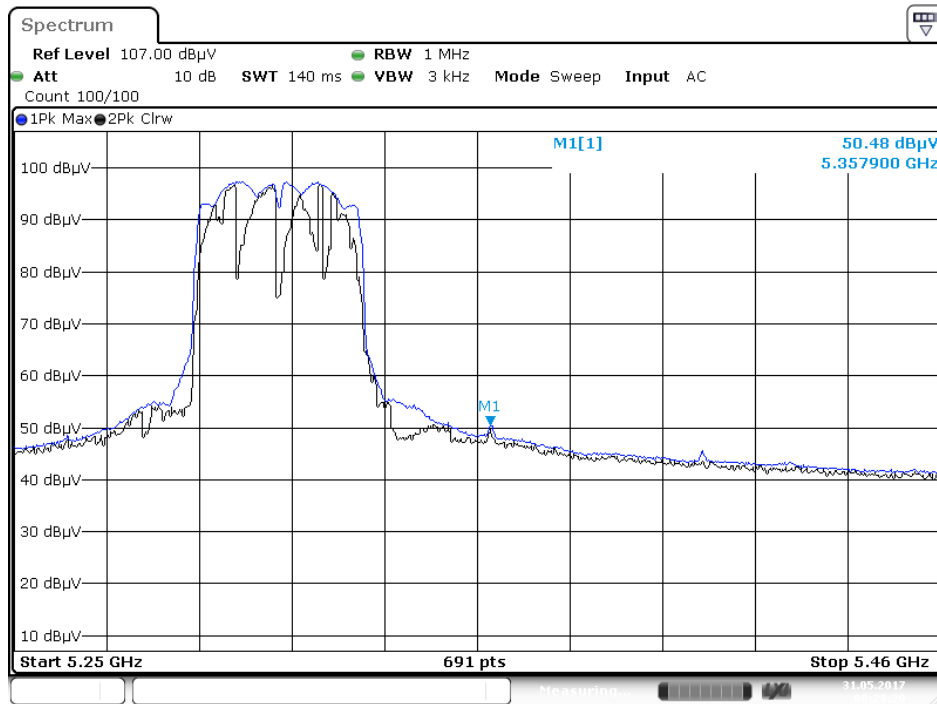
Radiated Restricted Band Edges plot – Average Reading (802.11n_HT40, Ch.62)



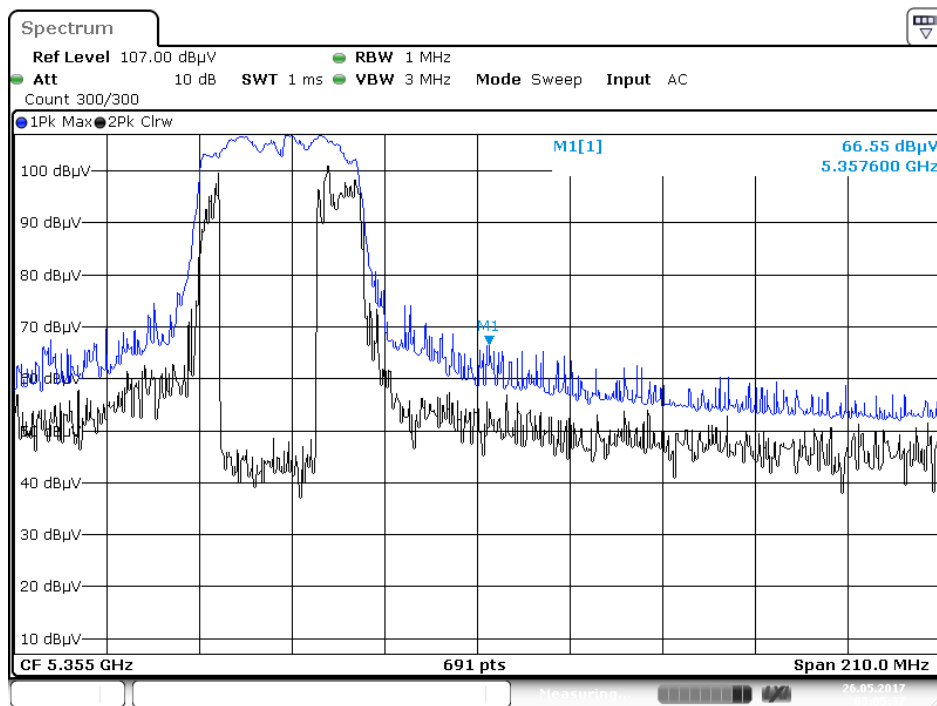
Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT40, Ch.62)



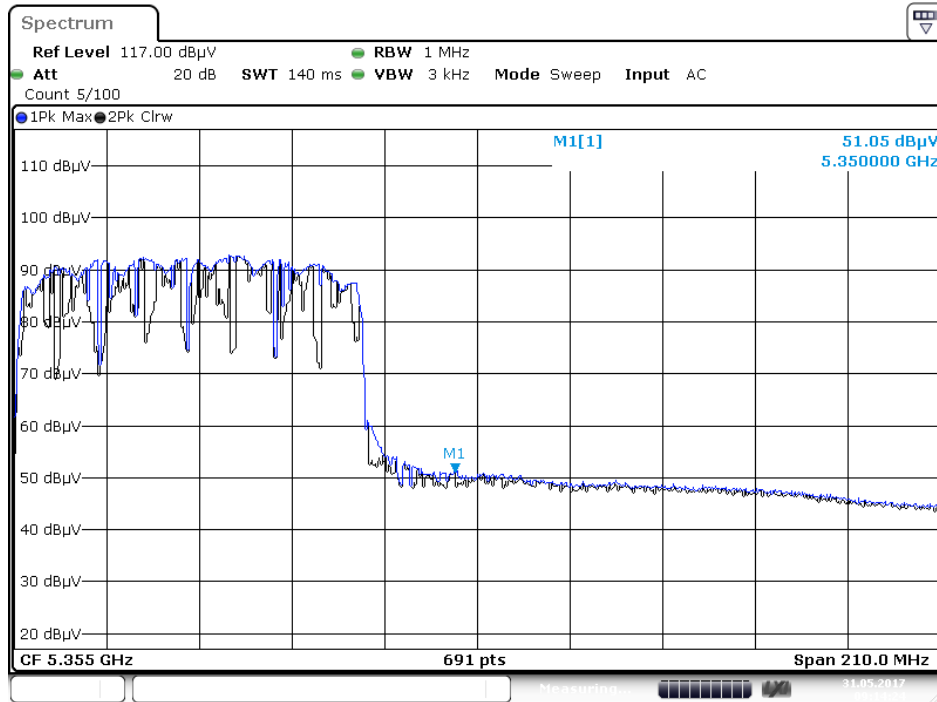
Radiated Restricted Band Edges plot – Average Reading (802.11ac_VHT40, Ch.62)



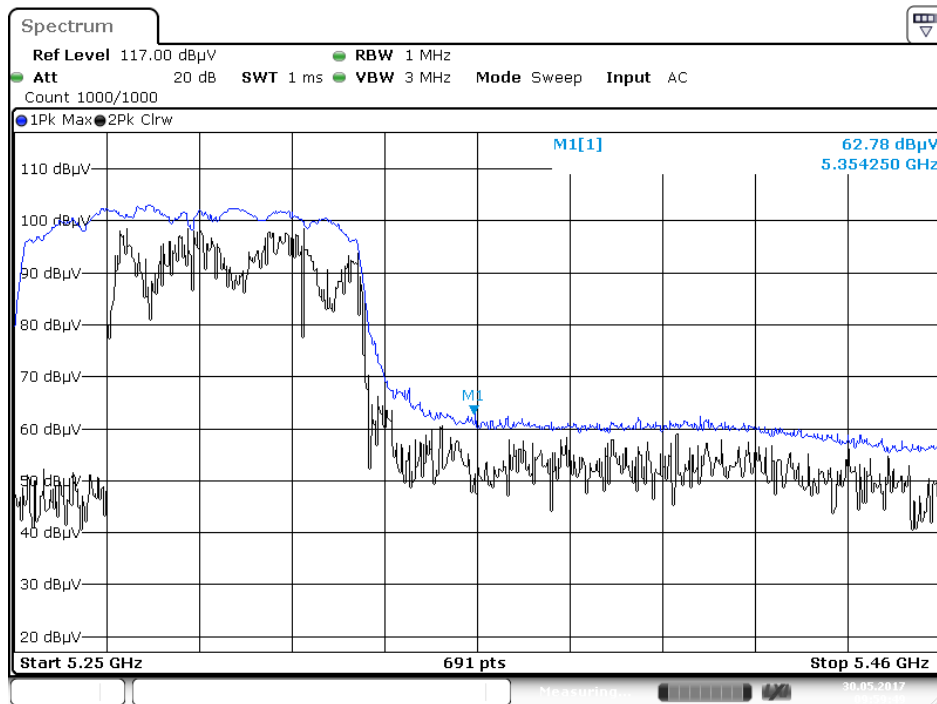
Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT40, Ch.62)



Radiated Restricted Band Edges plot – Average Reading (802.11ac_VHT80, Ch.58)



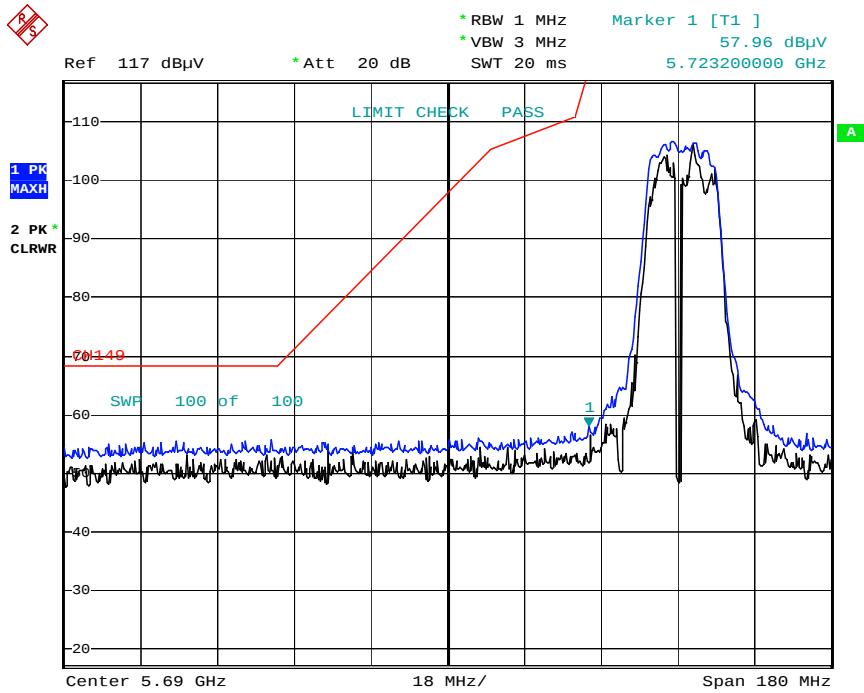
Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT80, Ch.58)



Note : Only the worst case plots for RADIATED RESTRICTED BAND EDGE.

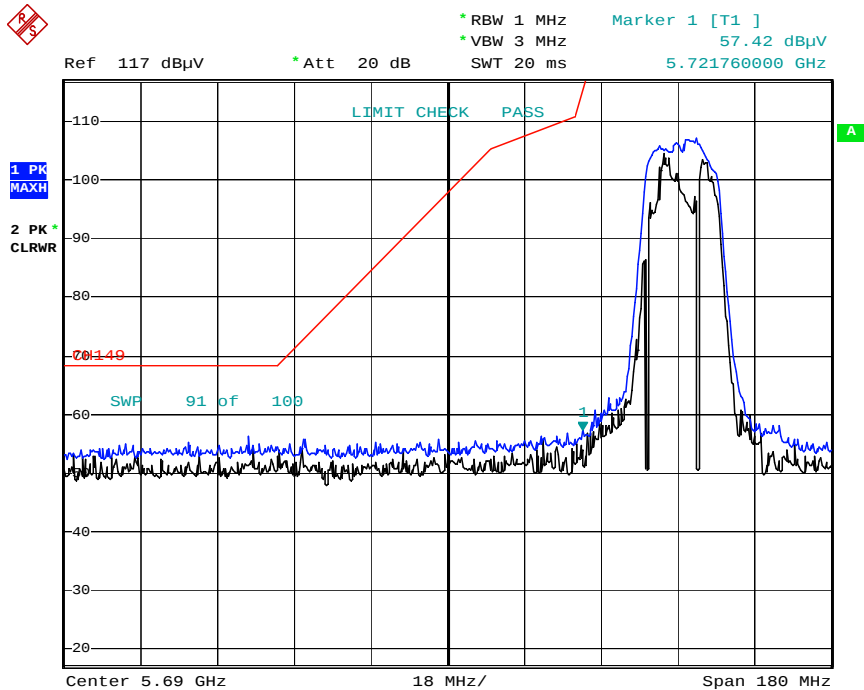
■ RESULT PLOTS (UNII 3 – ch.149, Only tablet)

Radiated Restricted Band Edges plot – Peak Reading (802.11a)



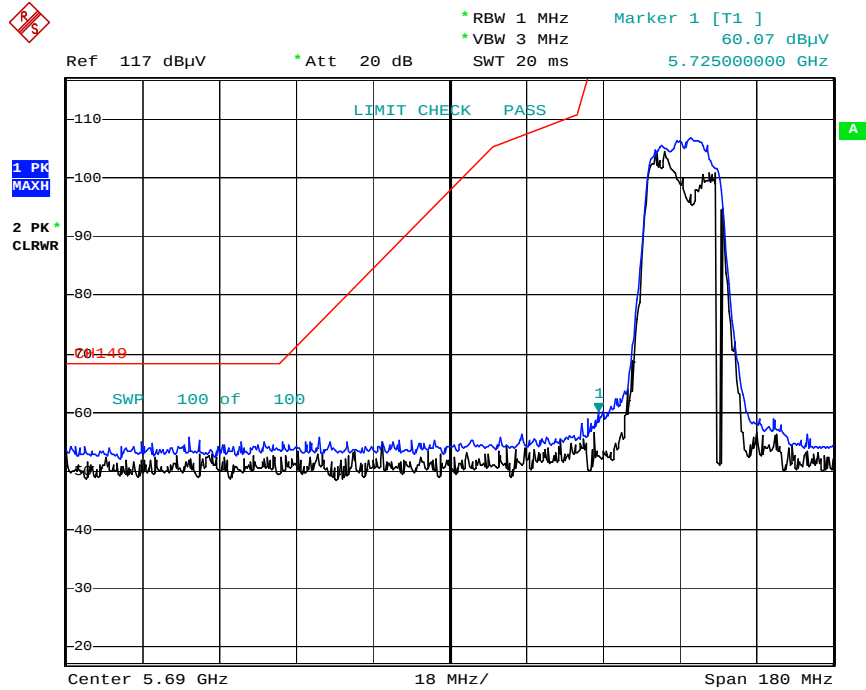
Date: 26.MAY.2017 04:50:24

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT20)



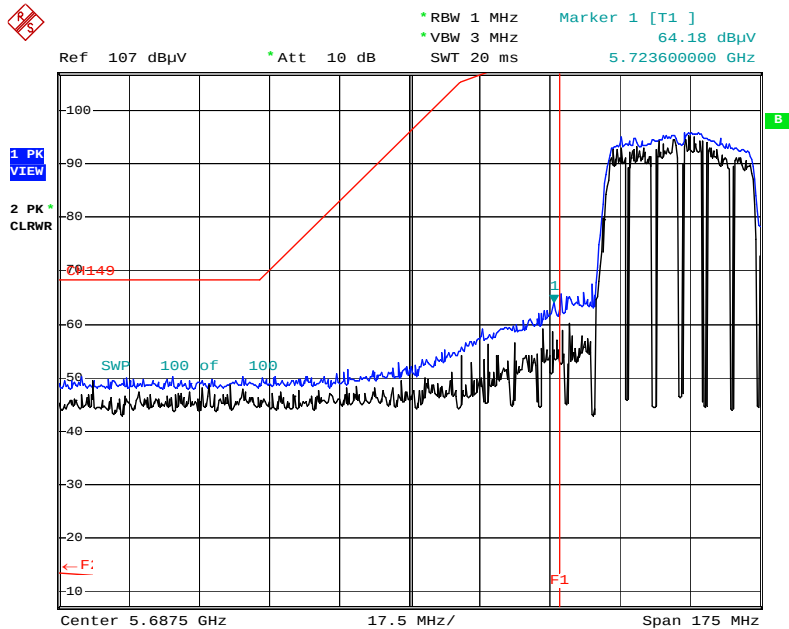
Date: 26.MAY.2017 04:51:43

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT20)



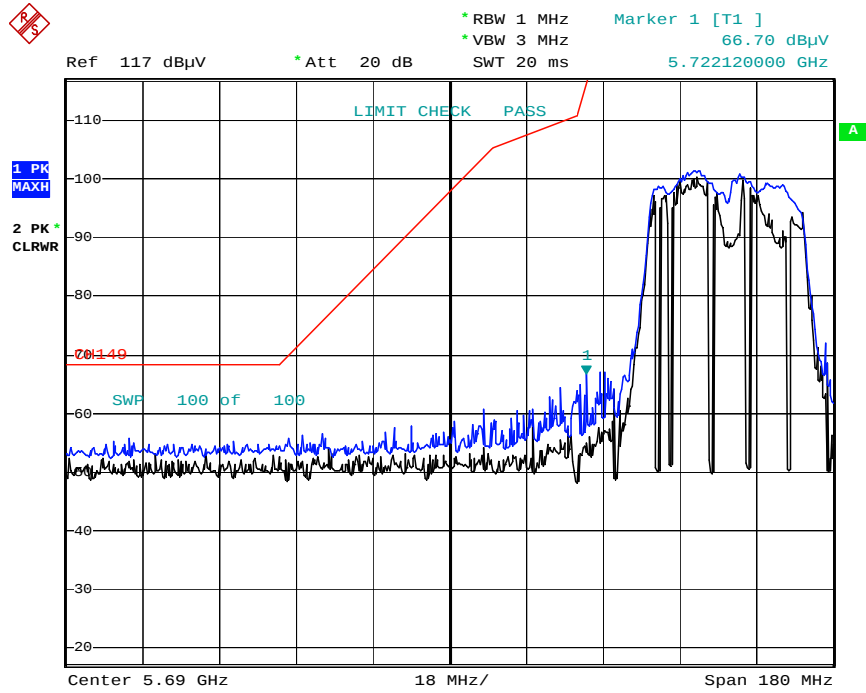
Date: 26.MAY.2017 04:54:02

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT40)



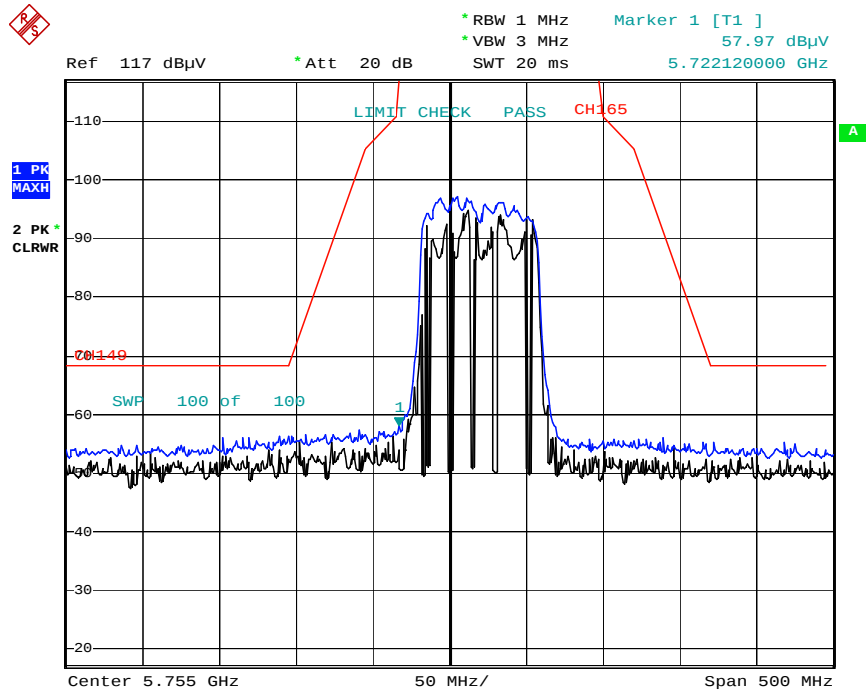
Date: 23.MAY.2017 20:50:19

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT40)



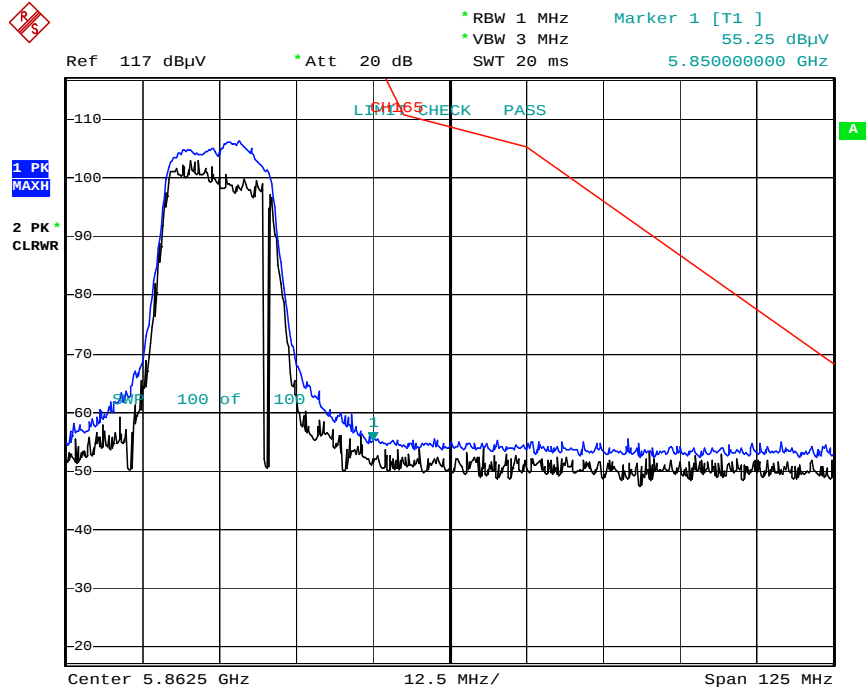
Date: 26.MAY.2017 05:00:12

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT80)



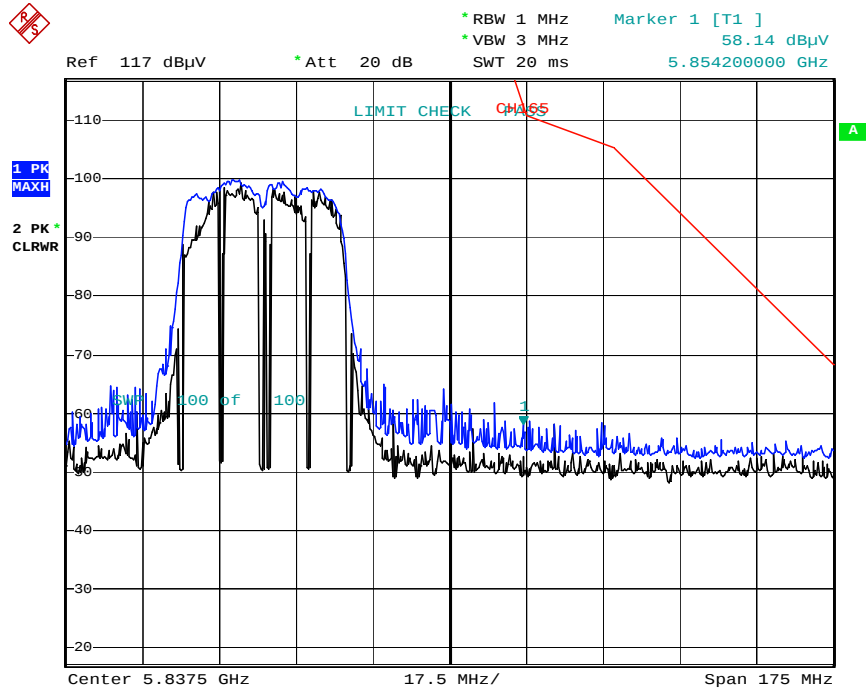
Date: 26.MAY.2017 05:02:02

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT20)



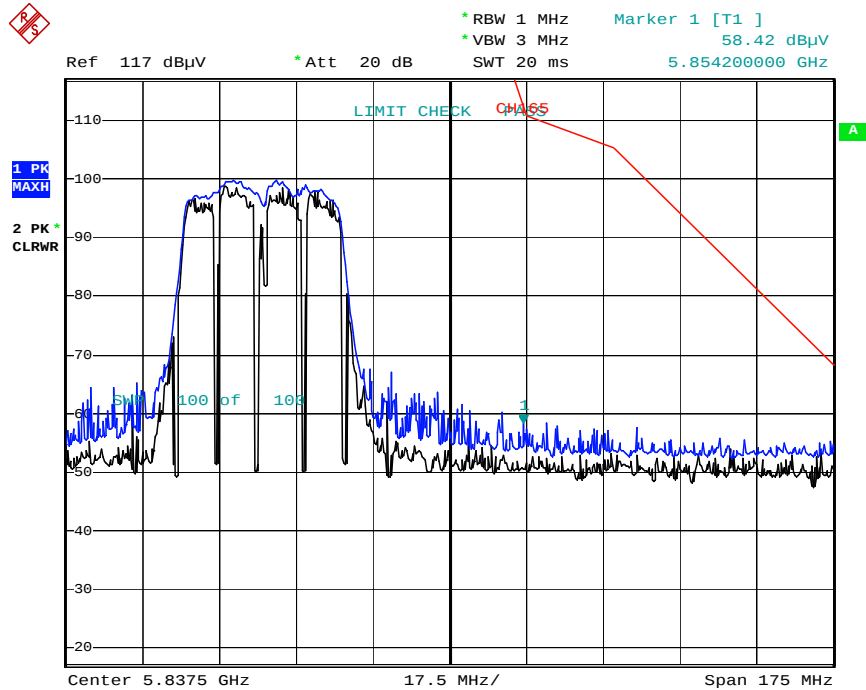
Date: 26.MAY.2017 05:09:42

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT40)



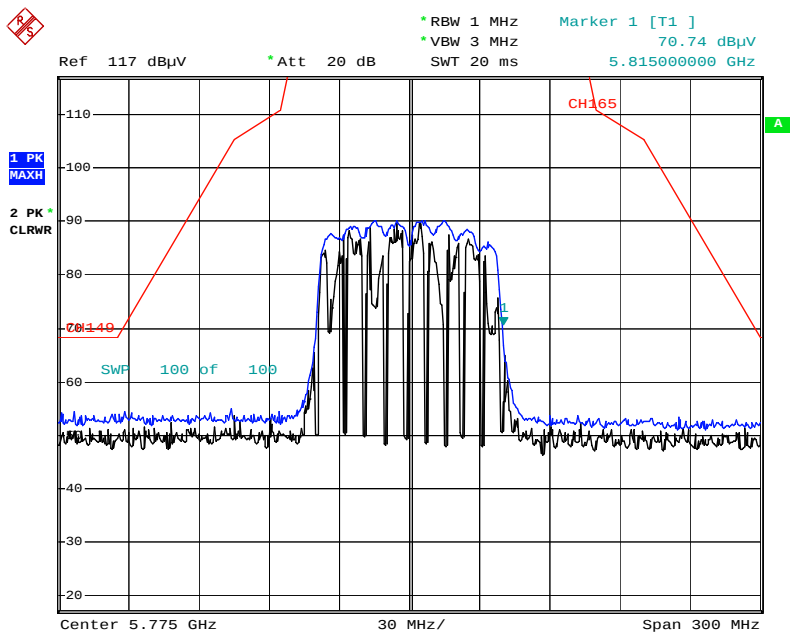
Date: 26.MAY.2017 05:18:47

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT40)



Date: 26.MAY.2017 05:17:37

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT80)



Date: 7.JUN.2017 17:47:12

9.7 POWERLINE CONDUCTED EMISSIONS

Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBµV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference groundplane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

Sample Calculation

Quasi-peak(Final Result) = Reading Value + Correction Factor

■ **RESULT PLOTS (Only tablet)**
Conducted Emissions (Line 1)

EMI Auto Test(12)

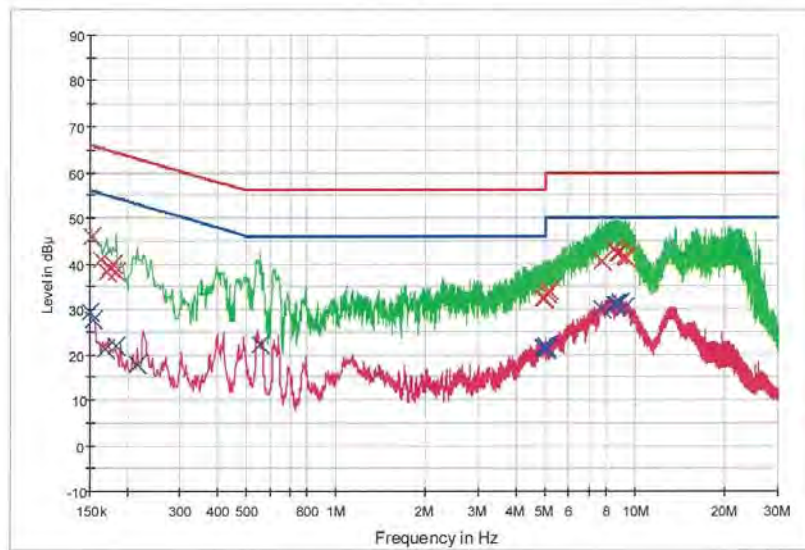
1 / 2

HCT TEST Report

Common Information

EUT: SM-W627Y
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: WLAN 5GHz MODE

FCC CLASS B



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
— Preview Result 2-AVG — Final Result 1-QPK — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	45.8	9.000	Off	L1	9.6	20.1	65.9
0.162000	40.8	9.000	Off	L1	9.6	24.6	65.4
0.170000	38.3	9.000	Off	L1	9.6	26.7	65.0
0.174000	39.1	9.000	Off	L1	9.6	25.7	64.8
0.178000	39.7	9.000	Off	L1	9.6	24.8	64.6
0.184000	38.1	9.000	Off	L1	9.6	26.2	64.3
4.886000	32.3	9.000	Off	L1	9.9	23.7	56.0
4.912000	32.3	9.000	Off	L1	9.9	23.7	56.0
4.950000	32.5	9.000	Off	L1	9.9	23.5	56.0
5.048000	33.5	9.000	Off	L1	9.9	26.5	60.0
5.110000	34.1	9.000	Off	L1	9.9	25.9	60.0
5.122000	34.2	9.000	Off	L1	9.9	25.8	60.0
7.760000	40.7	9.000	Off	L1	10.0	19.3	60.0
8.486000	43.1	9.000	Off	L1	10.0	16.9	60.0
8.702000	42.3	9.000	Off	L1	10.1	17.7	60.0
8.806000	42.3	9.000	Off	L1	10.1	17.7	60.0
9.244000	41.4	9.000	Off	L1	10.1	18.6	60.0
9.282000	41.1	9.000	Off	L1	10.1	18.9	60.0

Final Result 2

2017-05-31

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EMI Auto Test(12)

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Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	29.4	9.000	Off	L1	9.6	26.6	56.0
0.154000	27.6	9.000	Off	L1	9.6	28.1	55.8
0.168000	21.1	9.000	Off	L1	9.6	34.0	55.1
0.182000	21.7	9.000	Off	L1	9.6	32.6	54.4
0.216000	17.9	9.000	Off	L1	9.6	35.0	53.0
0.556000	22.2	9.000	Off	L1	9.7	23.8	46.0
4.868000	21.6	9.000	Off	L1	9.9	24.4	46.0
4.950000	21.6	9.000	Off	L1	9.9	24.4	46.0
4.988000	21.4	9.000	Off	L1	9.9	24.6	46.0
4.996000	21.2	9.000	Off	L1	9.9	24.8	46.0
5.006000	21.7	9.000	Off	L1	9.9	28.3	50.0
5.070000	21.1	9.000	Off	L1	9.9	28.9	50.0
7.760000	29.9	9.000	Off	L1	10.0	20.1	50.0
8.486000	31.0	9.000	Off	L1	10.0	19.0	50.0
8.612000	30.9	9.000	Off	L1	10.1	19.1	50.0
8.702000	31.1	9.000	Off	L1	10.1	18.9	50.0
8.890000	31.2	9.000	Off	L1	10.1	18.8	50.0
9.244000	30.3	9.000	Off	L1	10.1	19.7	50.0

2017-05-31

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Conducted Emissions (Line 2)

EMI Auto Test(12)

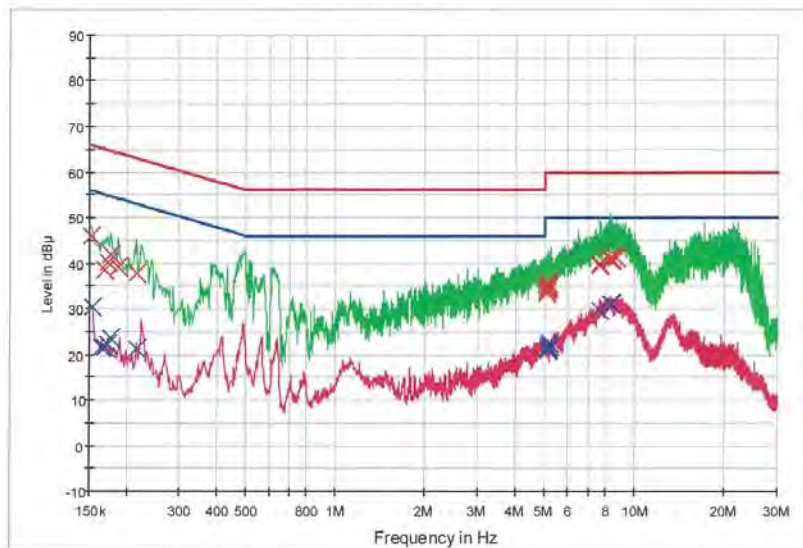
1 / 2

HCT TEST Report

Common Information

EUT: SM-W627Y
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: WLAN 5GHz MODE

FCC CLASS B



— FCC CLASS B_QP — Preview Result 1-PK+
— FCC CLASS B_AV — Final Result 1-QPK
— Preview Result 2-AVG — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	46.0	9.000	Off	N	9.6	19.9	65.9
0.168000	38.3	9.000	Off	N	9.6	26.7	65.1
0.172000	40.0	9.000	Off	N	9.6	24.9	64.9
0.176000	42.0	9.000	Off	N	9.6	22.7	64.7
0.188000	39.1	9.000	Off	N	9.6	25.1	64.1
0.216000	37.7	9.000	Off	N	9.6	25.3	63.0
5.060000	33.5	9.000	Off	N	9.9	26.5	60.0
5.076000	34.1	9.000	Off	N	9.9	25.9	60.0
5.118000	35.8	9.000	Off	N	9.9	24.2	60.0
5.126000	34.9	9.000	Off	N	9.9	25.1	60.0
5.136000	34.5	9.000	Off	N	9.9	25.5	60.0
5.150000	34.8	9.000	Off	N	9.9	25.2	60.0
7.644000	39.4	9.000	Off	N	10.0	20.6	60.0
7.668000	39.8	9.000	Off	N	10.0	20.2	60.0
8.270000	41.0	9.000	Off	N	10.0	19.0	60.0
8.320000	41.1	9.000	Off	N	10.0	18.9	60.0
8.344000	41.0	9.000	Off	N	10.0	19.0	60.0
8.694000	41.3	9.000	Off	N	10.1	18.7	60.0

Final Result 2

2017-05-31

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EMI Auto Test(12)

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Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154000	30.5	9.000	Off	N	9.6	25.3	55.8
0.164000	21.5	9.000	Off	N	9.6	33.7	55.3
0.168000	21.6	9.000	Off	N	9.6	33.5	55.1
0.172000	22.3	9.000	Off	N	9.6	32.5	54.9
0.176000	23.6	9.000	Off	N	9.6	31.1	54.7
0.216000	21.1	9.000	Off	N	9.6	31.8	53.0
5.118000	21.5	9.000	Off	N	9.9	28.5	50.0
5.126000	21.2	9.000	Off	N	9.9	28.8	50.0
5.136000	21.0	9.000	Off	N	9.9	29.0	50.0
5.148000	21.1	9.000	Off	N	9.9	29.0	50.0
5.162000	21.7	9.000	Off	N	9.9	28.3	50.0
5.170000	22.5	9.000	Off	N	9.9	27.5	50.0
7.644000	29.6	9.000	Off	N	10.0	20.4	50.0
8.270000	31.1	9.000	Off	N	10.0	18.9	50.0
8.320000	31.1	9.000	Off	N	10.0	18.9	50.0
8.338000	31.1	9.000	Off	N	10.0	18.9	50.0
8.348000	31.1	9.000	Off	N	10.0	18.9	50.0
8.360000	30.9	9.000	Off	N	10.0	19.1	50.0

2017-05-31

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■ **RESULT PLOTS (Tablet+keyboard cover(kickstand))**
Conducted Emissions (Line 1)

EMI Auto Test(12)

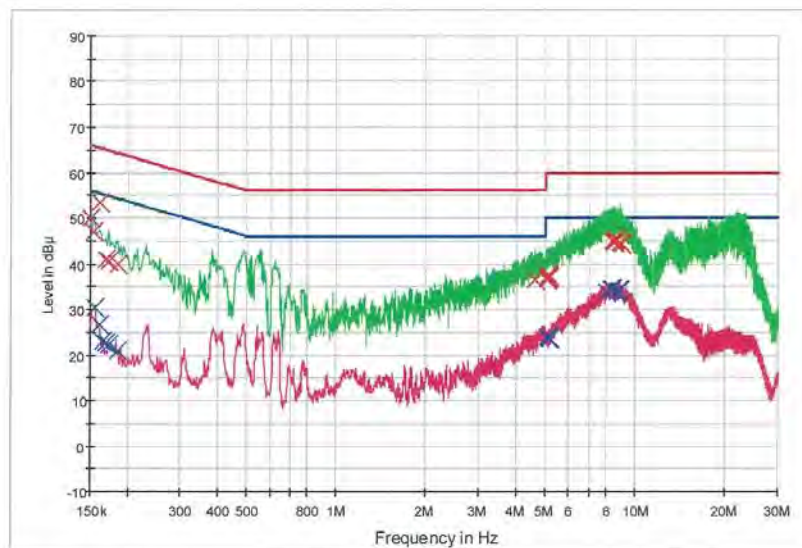
1 / 2

HCT TEST Report

Common Information

EUT: SM-W627Y
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: WLAN 5GHz MODE (KEYBOARD)

FCC CLASS B



— FCC CLASS B_QP — Preview Result 2-AVG — FCC CLASS B_AV — Final Result 1-QPK — Preview Result 1-PK+ — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	50.0	9.000	Off	L1	9.6	16.0	66.0
0.154000	46.8	9.000	Off	L1	9.6	19.0	65.8
0.160000	53.4	9.000	Off	L1	9.6	12.1	65.5
0.168000	40.7	9.000	Off	L1	9.6	24.3	65.1
0.172000	40.6	9.000	Off	L1	9.6	24.3	64.9
0.186000	39.8	9.000	Off	L1	9.6	24.4	64.2
4.612000	36.3	9.000	Off	L1	9.9	19.7	56.0
5.070000	36.3	9.000	Off	L1	9.9	23.7	60.0
5.096000	36.7	9.000	Off	L1	9.9	23.3	60.0
5.114000	37.3	9.000	Off	L1	9.9	22.7	60.0
5.120000	37.3	9.000	Off	L1	9.9	22.7	60.0
5.126000	36.9	9.000	Off	L1	9.9	23.1	60.0
8.384000	45.0	9.000	Off	L1	10.0	15.0	60.0
8.452000	45.1	9.000	Off	L1	10.0	14.9	60.0
8.484000	44.7	9.000	Off	L1	10.0	15.3	60.0
8.598000	45.2	9.000	Off	L1	10.1	14.8	60.0
8.904000	44.4	9.000	Off	L1	10.1	15.6	60.0
8.950000	44.3	9.000	Off	L1	10.1	15.7	60.0

Final Result 2

2017-06-01

오전 11:10:33

EMI Auto Test(12)

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Frequency (MHz)	Coverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.156000	30.2	9.000	Off	L1	9.6	25.5	55.7
0.160000	26.6	9.000	Off	L1	9.6	28.9	55.5
0.164000	22.7	9.000	Off	L1	9.6	32.5	55.3
0.168000	22.7	9.000	Off	L1	9.6	32.4	55.1
0.172000	22.2	9.000	Off	L1	9.6	32.6	54.9
0.186000	20.7	9.000	Off	L1	9.6	33.5	54.2
5.068000	23.9	9.000	Off	L1	9.9	26.1	50.0
5.126000	23.8	9.000	Off	L1	9.9	26.2	50.0
5.134000	23.5	9.000	Off	L1	9.9	26.5	50.0
5.148000	23.7	9.000	Off	L1	9.9	26.3	50.0
5.156000	24.0	9.000	Off	L1	9.9	26.0	50.0
5.194000	23.6	9.000	Off	L1	9.9	26.4	50.0
8.034000	33.6	9.000	Off	L1	10.0	16.4	50.0
8.306000	34.3	9.000	Off	L1	10.0	15.7	50.0
8.384000	34.4	9.000	Off	L1	10.0	15.6	50.0
8.670000	33.8	9.000	Off	L1	10.1	16.2	50.0
8.768000	34.1	9.000	Off	L1	10.1	15.9	50.0
8.904000	34.0	9.000	Off	L1	10.1	16.0	50.0

2017-06-01

오전 11:10:33

Conducted Emissions (Line 2)

EMI Auto Test(12)

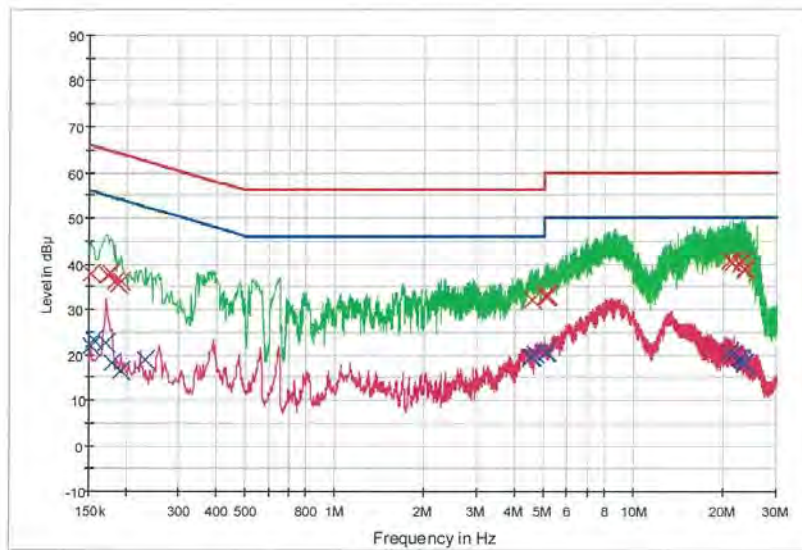
1 / 2

HCT TEST Report

Common Information

EUT: SM-W627Y
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: WLAN 5GHz MODE (KEYBOARD)

FCC CLASS B



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
— Preview Result 2-AVG — Final Result 1-QPK — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	37.7	9.000	Off	N	9.6	28.2	65.9
0.172000	37.6	9.000	Off	N	9.6	27.3	64.9
0.176000	37.9	9.000	Off	N	9.6	26.8	64.7
0.184000	36.0	9.000	Off	N	9.6	28.3	64.3
0.188000	35.5	9.000	Off	N	9.6	28.6	64.1
0.192000	36.0	9.000	Off	N	9.6	27.9	63.9
4.576000	31.9	9.000	Off	N	9.9	24.1	56.0
5.074000	32.6	9.000	Off	N	9.9	27.4	60.0
5.094000	32.9	9.000	Off	N	9.9	27.1	60.0
5.132000	32.8	9.000	Off	N	9.9	27.2	60.0
5.138000	33.1	9.000	Off	N	9.9	26.9	60.0
5.146000	32.8	9.000	Off	N	9.9	27.2	60.0
20.774000	40.4	9.000	Off	N	10.3	19.6	60.0
21.274000	40.3	9.000	Off	N	10.4	19.7	60.0
22.614000	39.9	9.000	Off	N	10.4	20.1	60.0
23.054000	40.5	9.000	Off	N	10.4	19.5	60.0
23.510000	38.9	9.000	Off	N	10.4	21.1	60.0
23.574000	38.6	9.000	Off	N	10.4	21.4	60.0

Final Result 2

2017-06-01

오전 10:54:22

EMI Auto Test(12)

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Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	21.9	9.000	Off	N	9.6	34.0	55.9
0.156000	23.4	9.000	Off	N	9.6	32.3	55.7
0.170000	22.5	9.000	Off	N	9.6	32.4	55.0
0.178000	18.1	9.000	Off	N	9.6	36.4	54.6
0.192000	16.4	9.000	Off	N	9.6	37.5	53.9
0.232000	18.9	9.000	Off	N	9.6	33.5	52.4
4.486000	19.4	9.000	Off	N	9.9	26.6	46.0
4.576000	19.4	9.000	Off	N	9.9	26.6	46.0
4.698000	20.0	9.000	Off	N	9.9	26.0	46.0
5.084000	20.6	9.000	Off	N	9.9	29.4	50.0
5.132000	20.4	9.000	Off	N	9.9	29.6	50.0
5.138000	20.4	9.000	Off	N	9.9	29.6	50.0
20.774000	20.6	9.000	Off	N	10.3	29.4	50.0
21.468000	19.8	9.000	Off	N	10.4	30.2	50.0
22.530000	19.3	9.000	Off	N	10.4	30.7	50.0
23.054000	18.8	9.000	Off	N	10.4	31.2	50.0
23.510000	18.1	9.000	Off	N	10.4	31.9	50.0
23.574000	18.0	9.000	Off	N	10.4	32.0	50.0

2017-06-01

오전 10:54:22

10. LIST OF TEST EQUIPMENT**10.1 LIST OF TEST EQUIPMENT(Conducted Test)**

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	12/23/2016	Annual	100073
Rohde & Schwarz	ESCI / Test Receiver	12/23/2016	Annual	100584
Agilent	N9020A / Signal Analyzer	06/24/2016	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	11/30/2016	Annual	MY49431210
Agilent	N1911A / Power Meter	04/17/2017	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/17/2017	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/23/2016	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	06/14/2016	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	07/07/2016	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/15/2016	Annual	07560

10.2 LIST OF TEST EQUIPMENT(Radiated Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	MA4000-EP / Antenna Position Tower	N/A	N/A	N/A
Innco system	CT0800 / Turn Table	N/A	N/A	N/A
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
ETS	2090 / Controller(Turn table)	N/A	N/A	1646
Rohde & Schwarz	Loop Antenna	04/19/2017	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	04/06/2017	Biennial	760
Schwarzbeck	BBHA 9120D / Horn Antenna	12/11/2015	Biennial	9120D-1191
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	09/04/2015	Biennial	BBHA9170541
Rohde & Schwarz	FSP / Spectrum Analyzer	09/29/2016	Annual	836650/016
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/23/2016	Annual	101068-SZ
Wainwright Instruments	WHKX10-2700-3000-18000-40SS / High Pass Filter	08/11/2016	Annual	4
Wainwright Instruments	WHKX8-6090-7000-18000-40SS / High Pass Filter	07/15/2016	Annual	5
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	07/06/2016	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/24/2017	Annual	2
H.P.	8491A / Attenuator(10 dB)	08/11/2016	Annual	18593
CERNEX	CBLU1183540 / Power Amplifier	01/25/2017	Annual	24614
CERNEX	CBL06185030 / Power Amplifier	01/25/2017	Annual	24615
CERNEX	CBL18265035 / Power Amplifier	01/23/2017	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	07/11/2016	Annual	25956