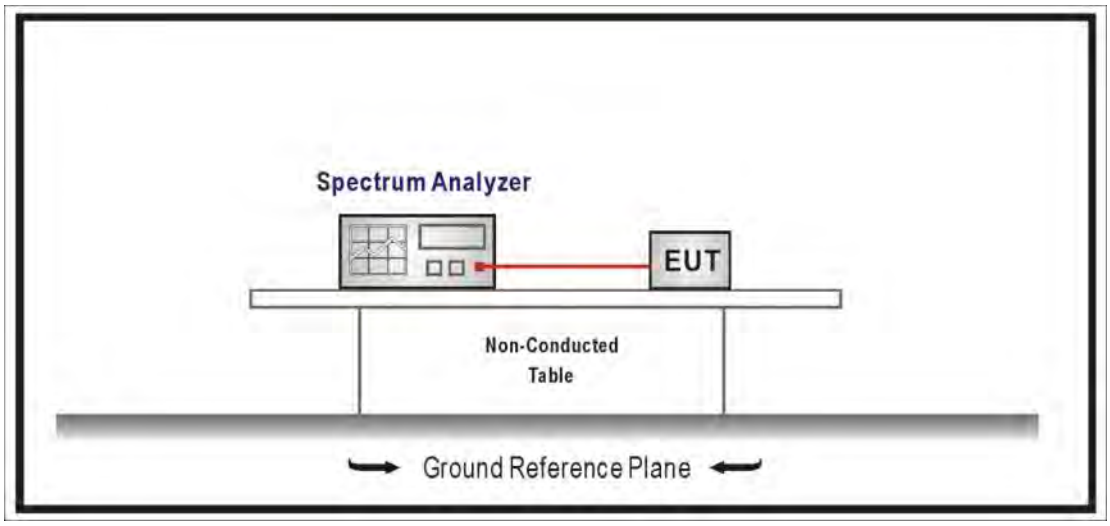
8. Occupied Bandwidth

8.1. Test Setup



8.2. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 V05 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 1-5% of the OBW, Set the VBW≧3xRBW, Sweep Time=Auto.

8.3. Limits

N/A

8.4. Test Specification

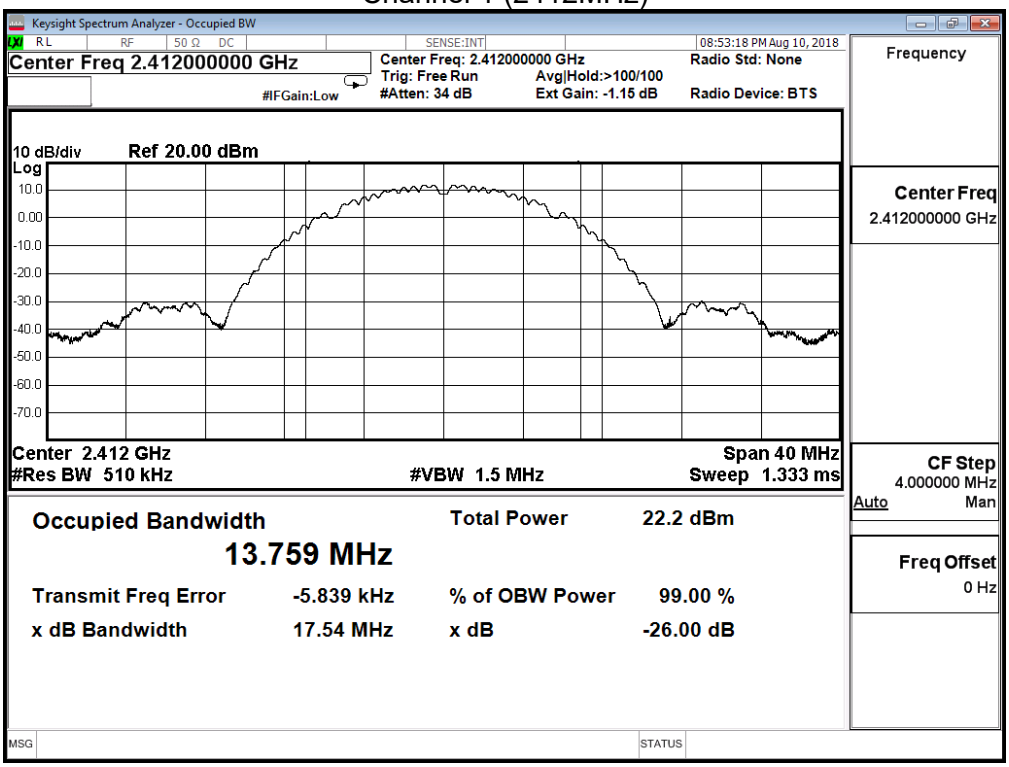
According to FCC Part 15 Subpart C Paragraph 15.247: 2017

8.5. Test Result

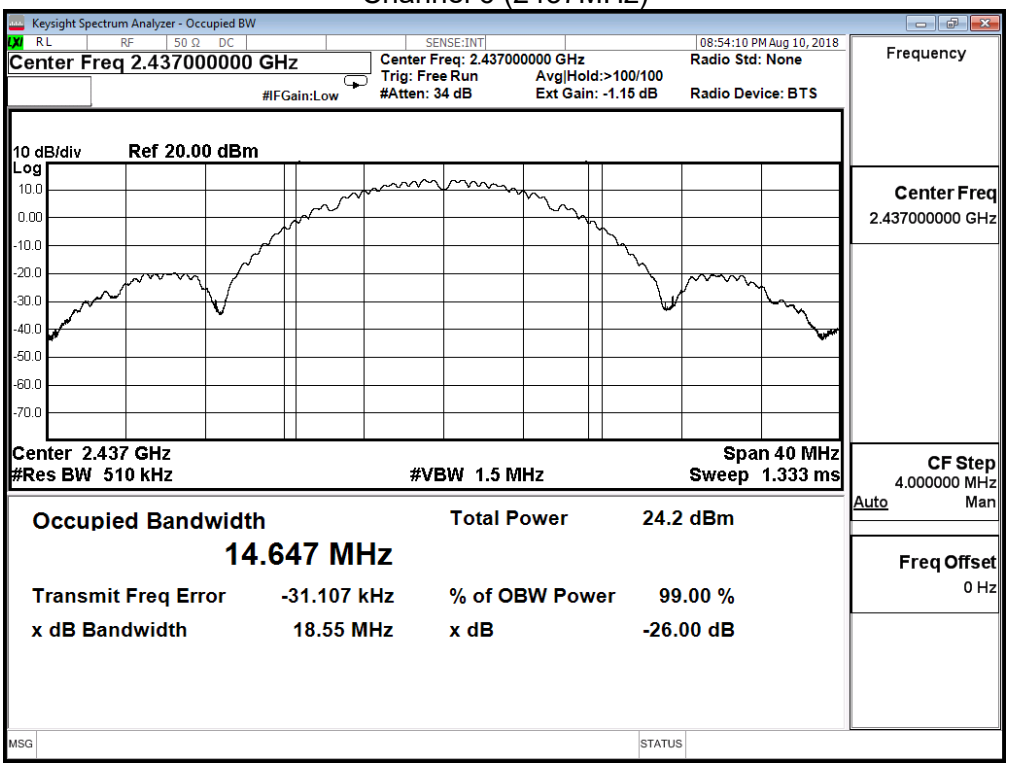
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

802.11b (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	13.759	---
6	2437	14.647	---
11	2462	13.483	---

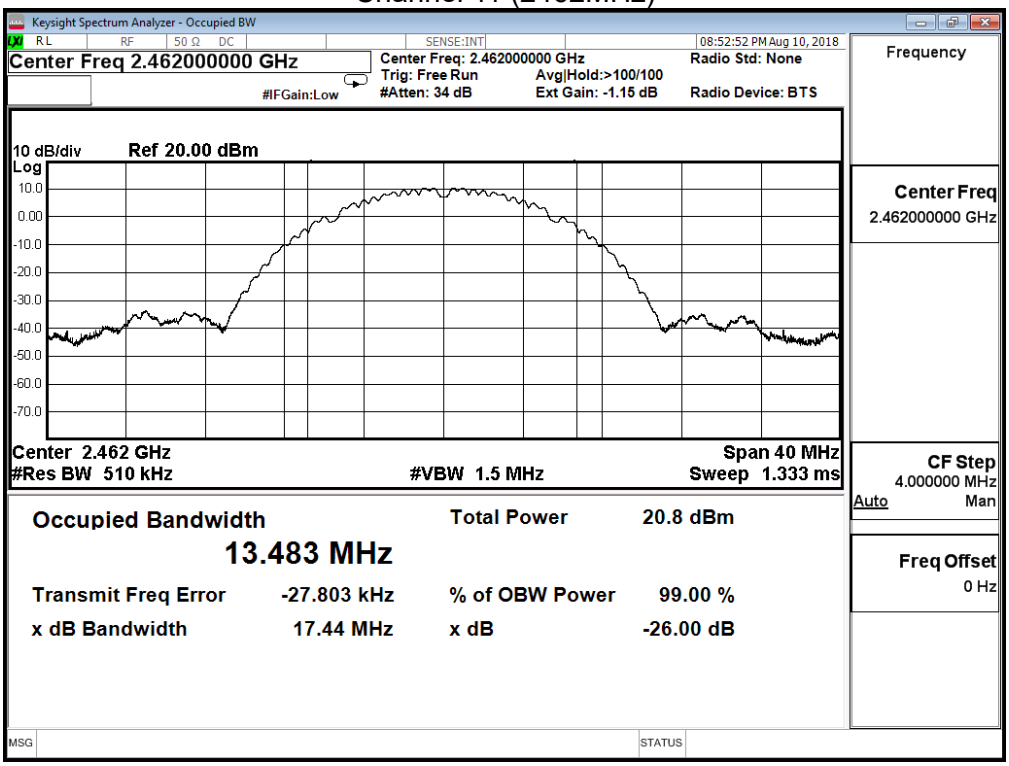
Channel 1 (2412MHz)



Channel 6 (2437MHz)



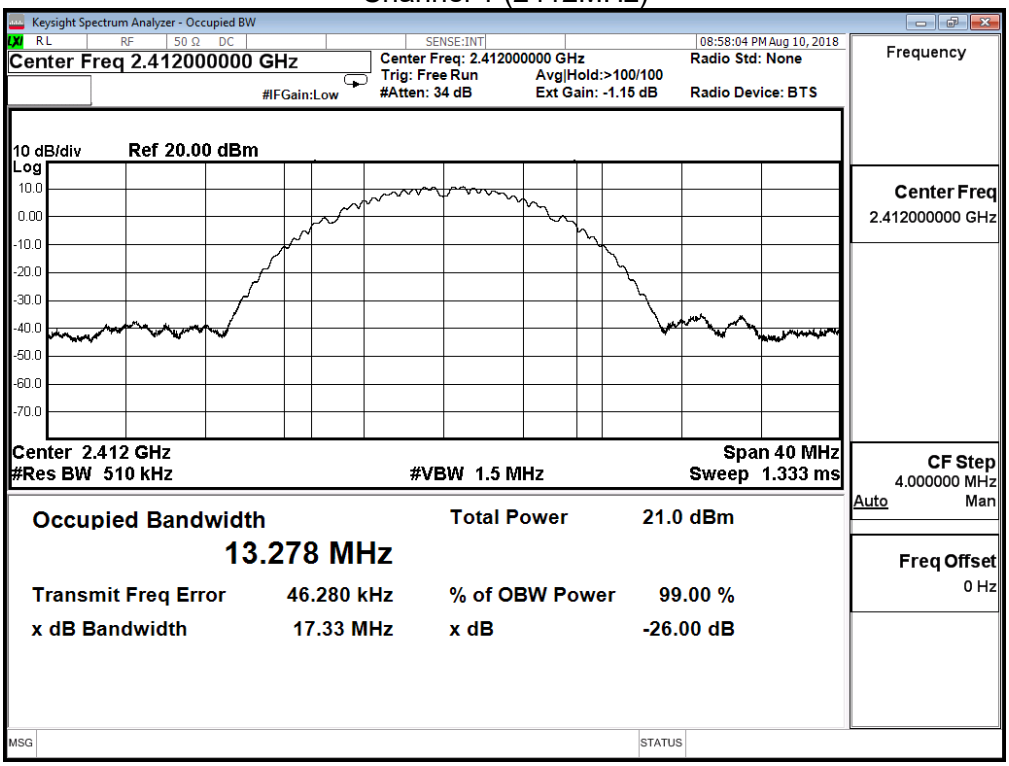
Channel 11 (2462MHz)



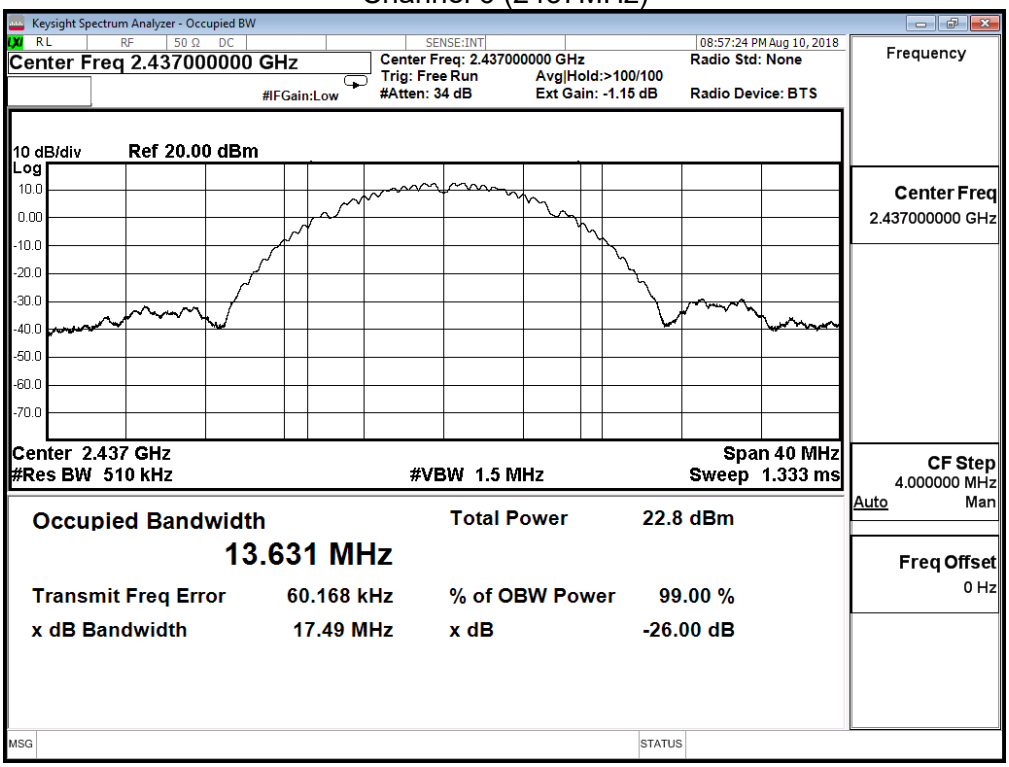
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

802.11b (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	13.278	---
6	2437	13.631	---
11	2462	13.339	---

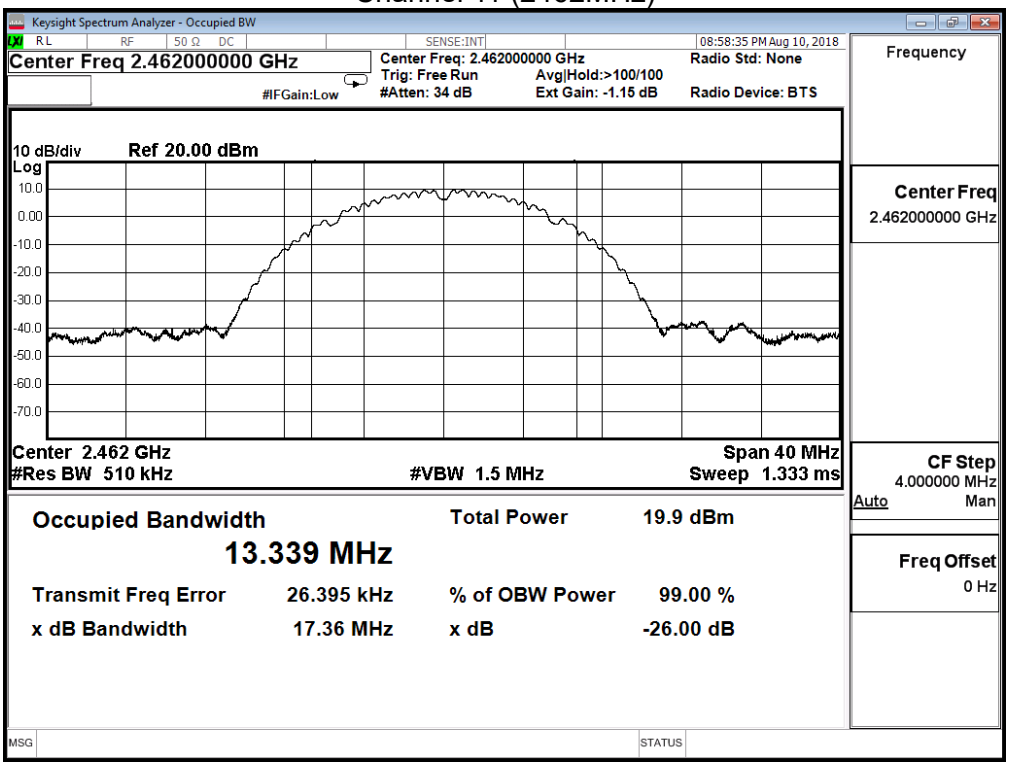
Channel 1 (2412MHz)



Channel 6 (2437MHz)



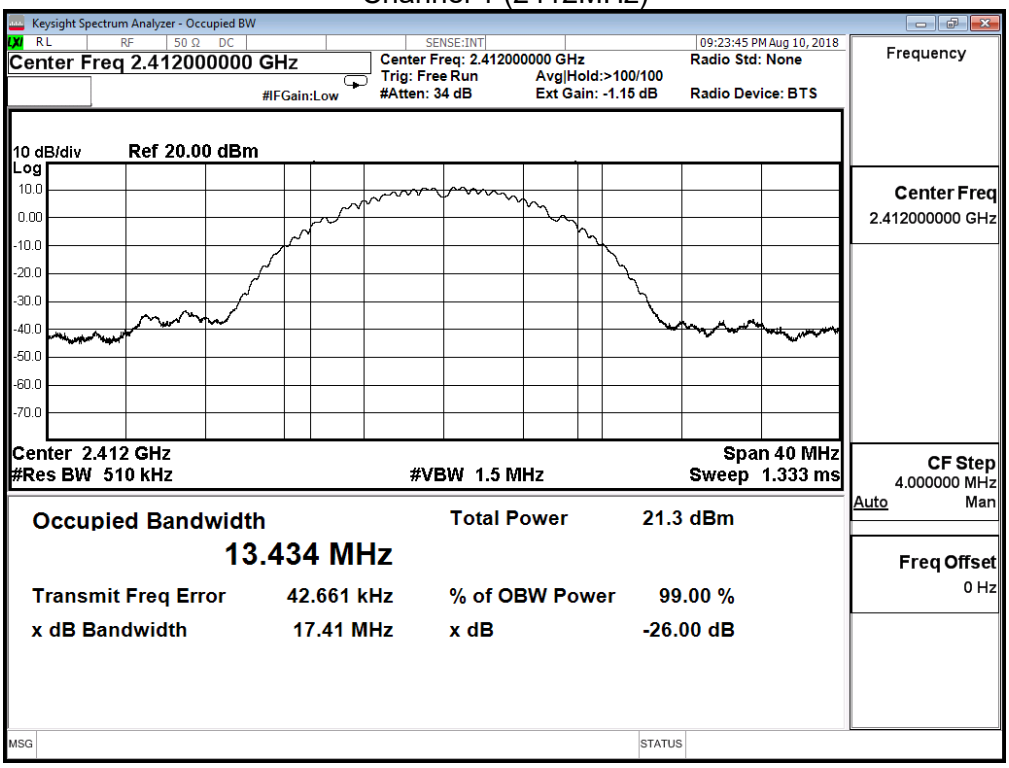
Channel 11 (2462MHz)



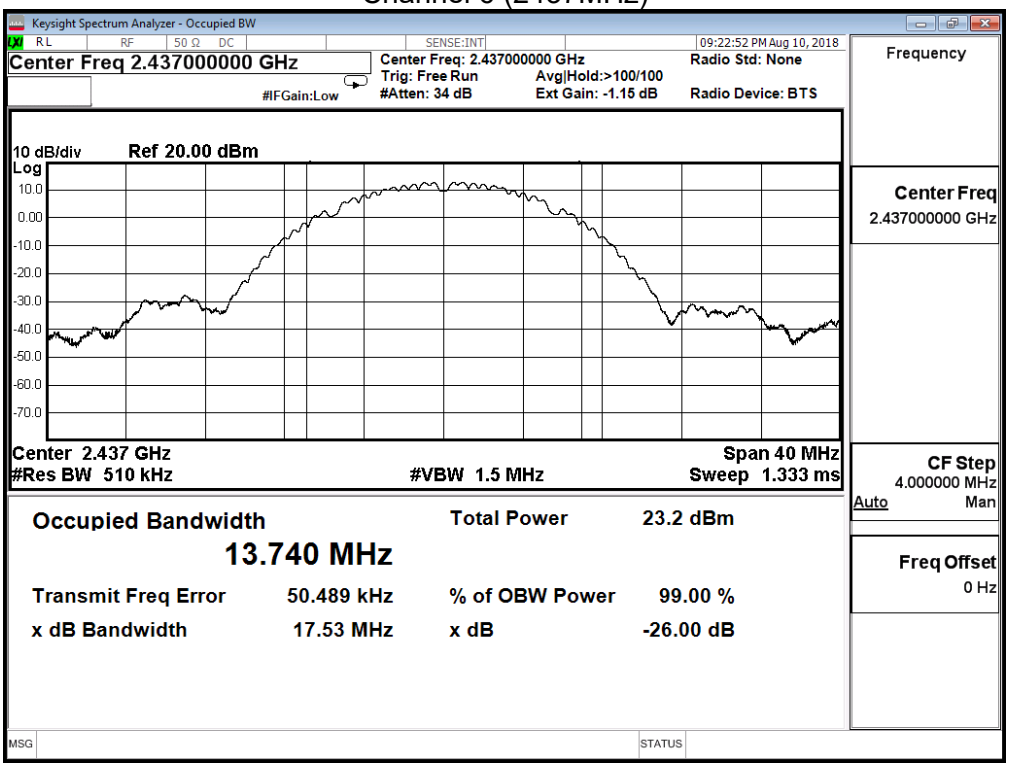
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

802.11b (ANT 2)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	13.434	---
6	2437	13.740	---
11	2462	13.280	---

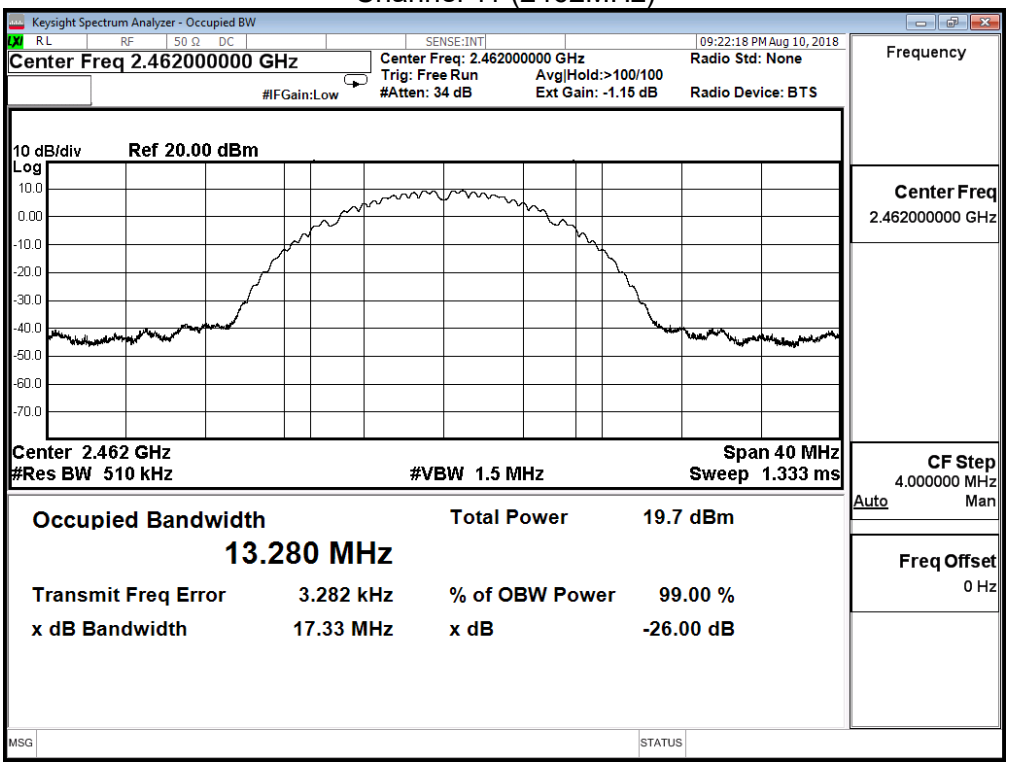
Channel 1 (2412MHz)



Channel 6 (2437MHz)



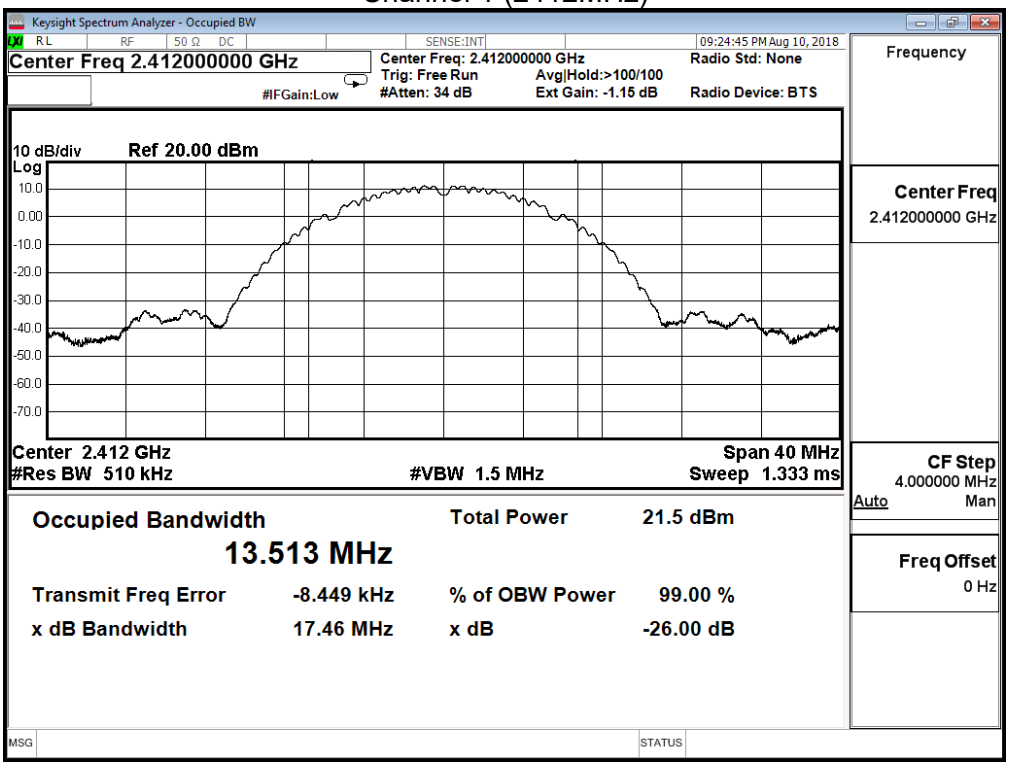
Channel 11 (2462MHz)



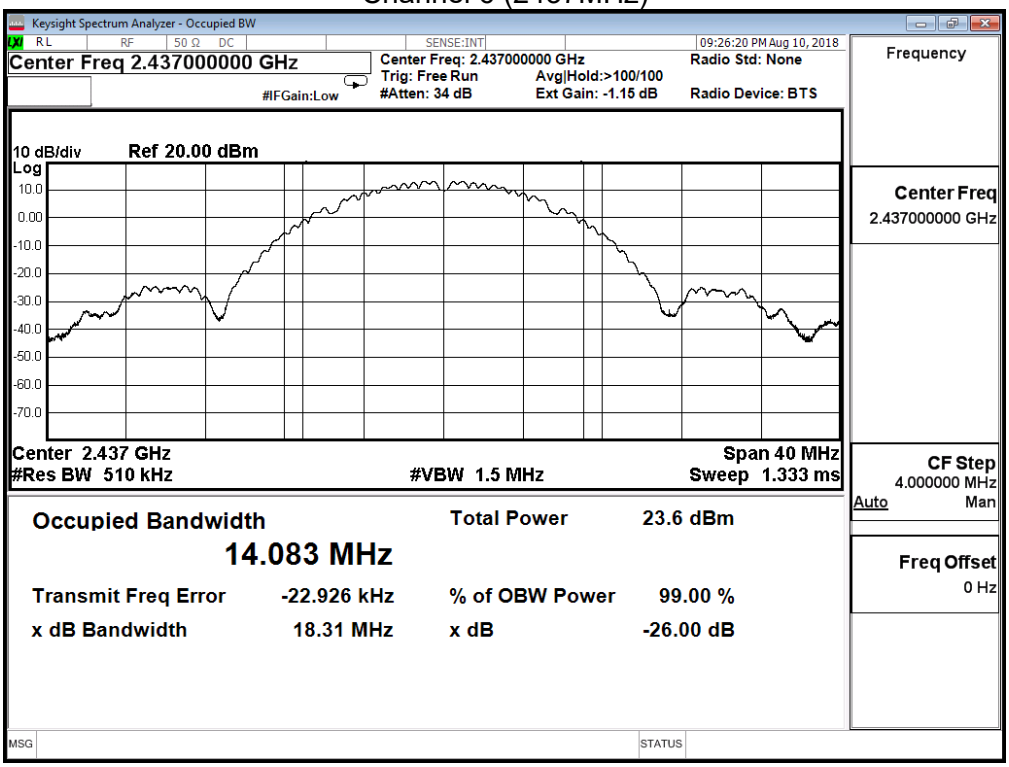
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

802.11b (ANT 3)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	13.513	---
6	2437	14.083	---
11	2462	13.363	---

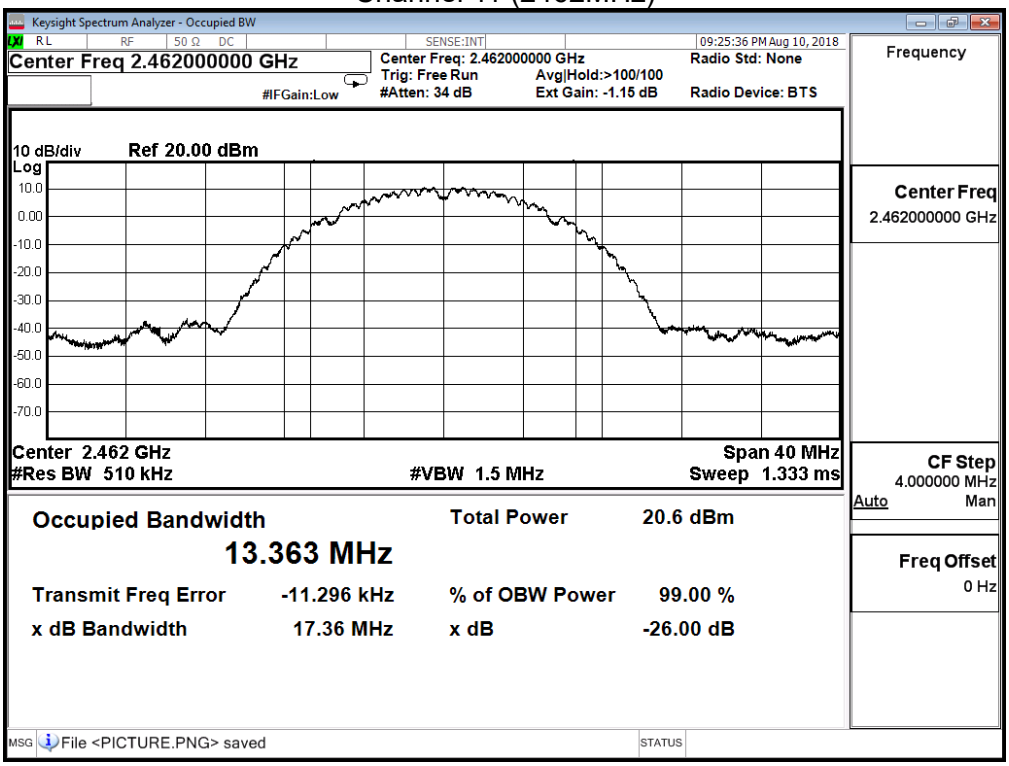
Channel 1 (2412MHz)



Channel 6 (2437MHz)



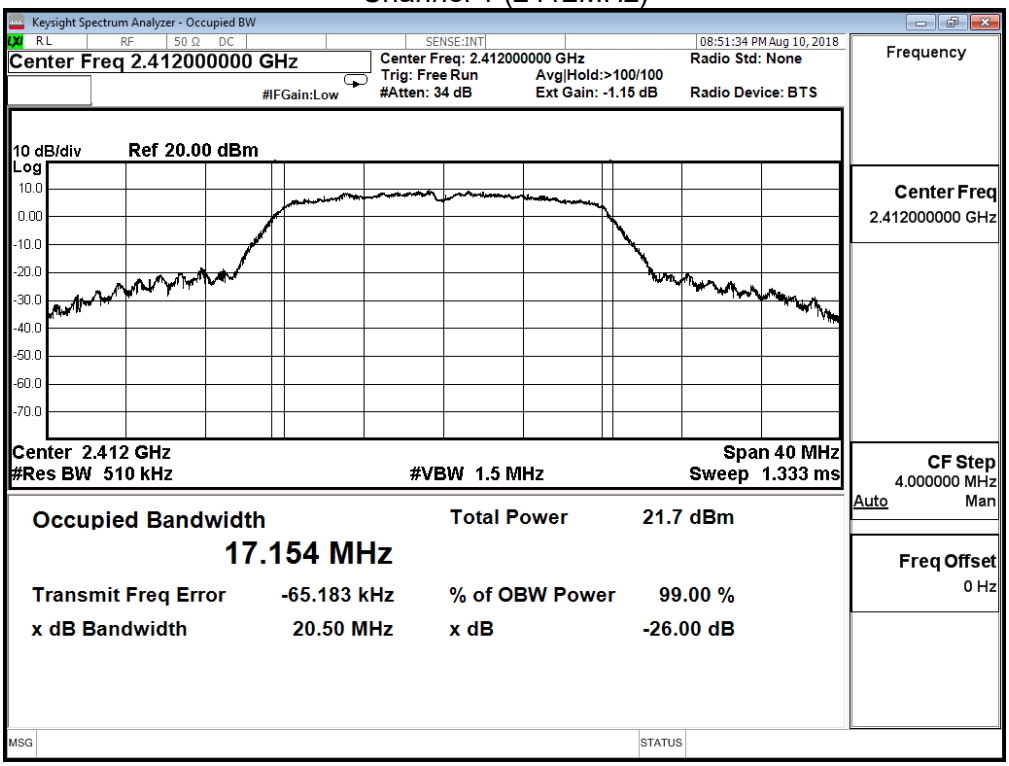
Channel 11 (2462MHz)



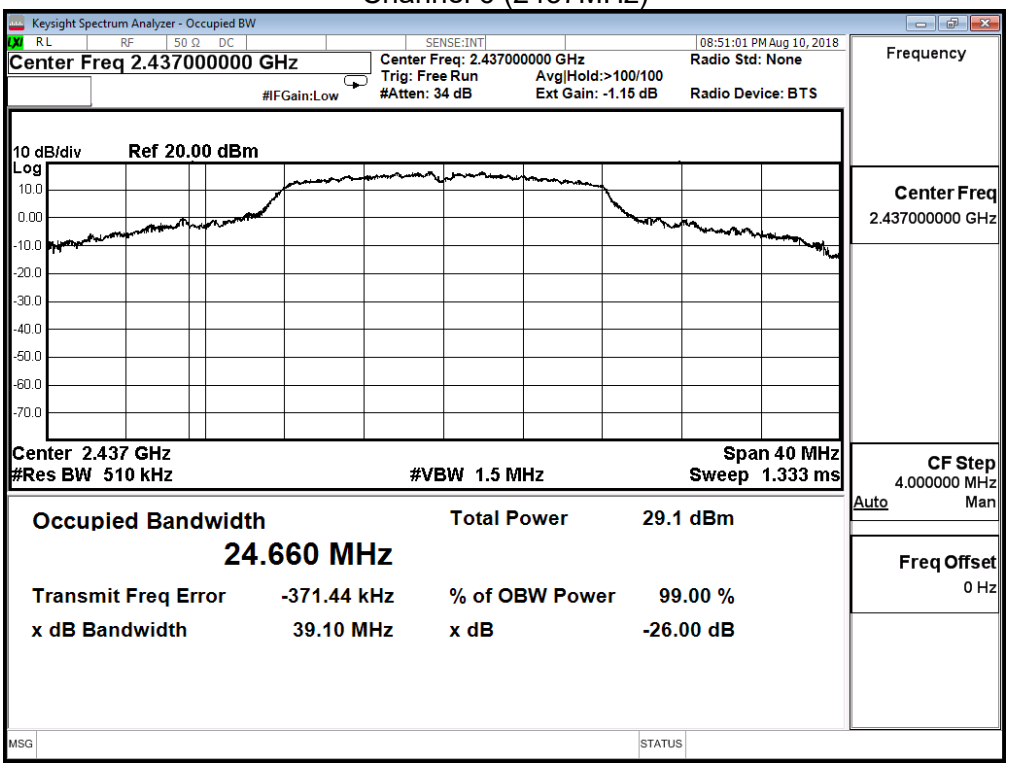
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

802.11g (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	17.154	---
6	2437	24.660	---
11	2462	17.104	---

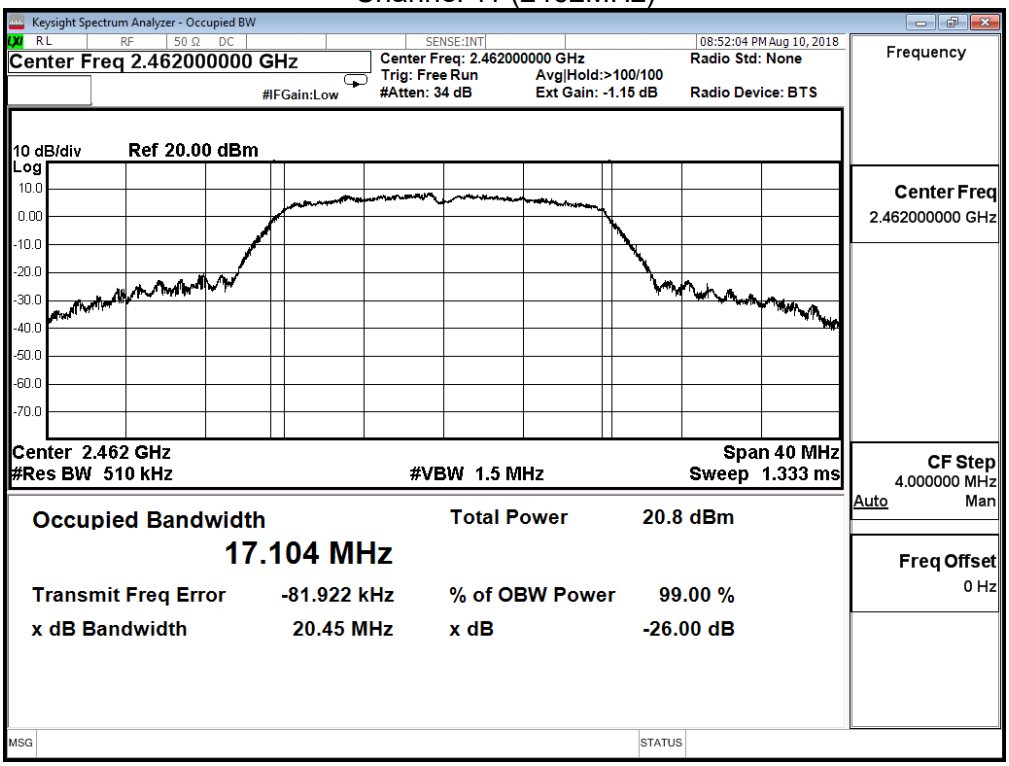
Channel 1 (2412MHz)



Channel 6 (2437MHz)



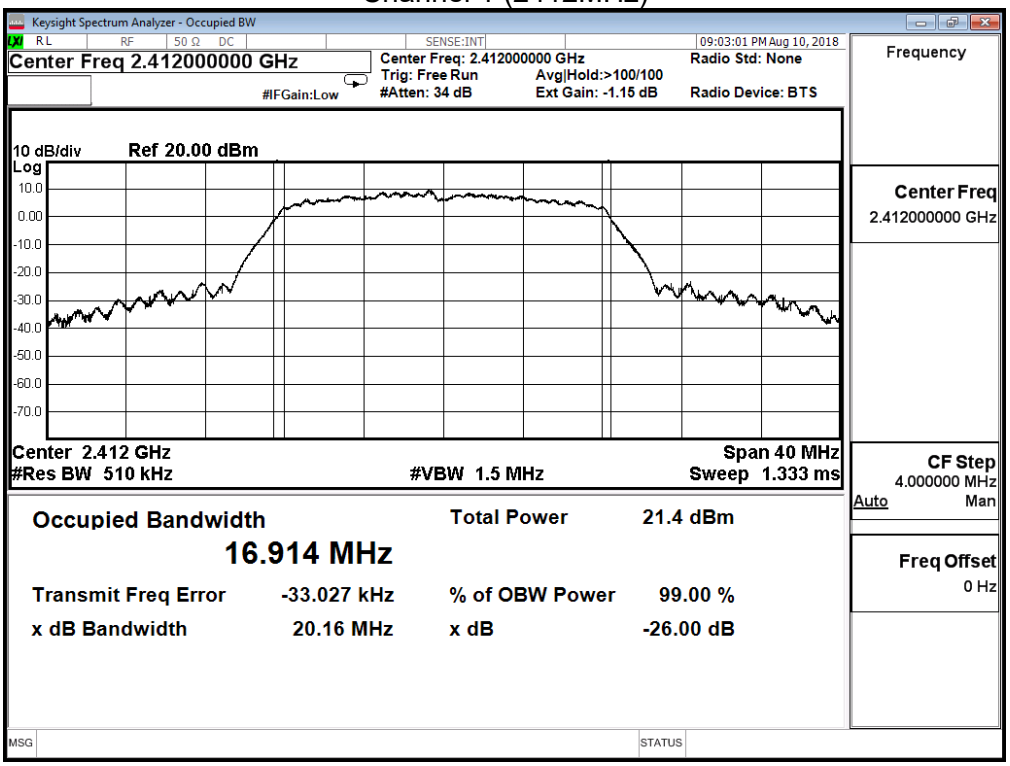
Channel 11 (2462MHz)



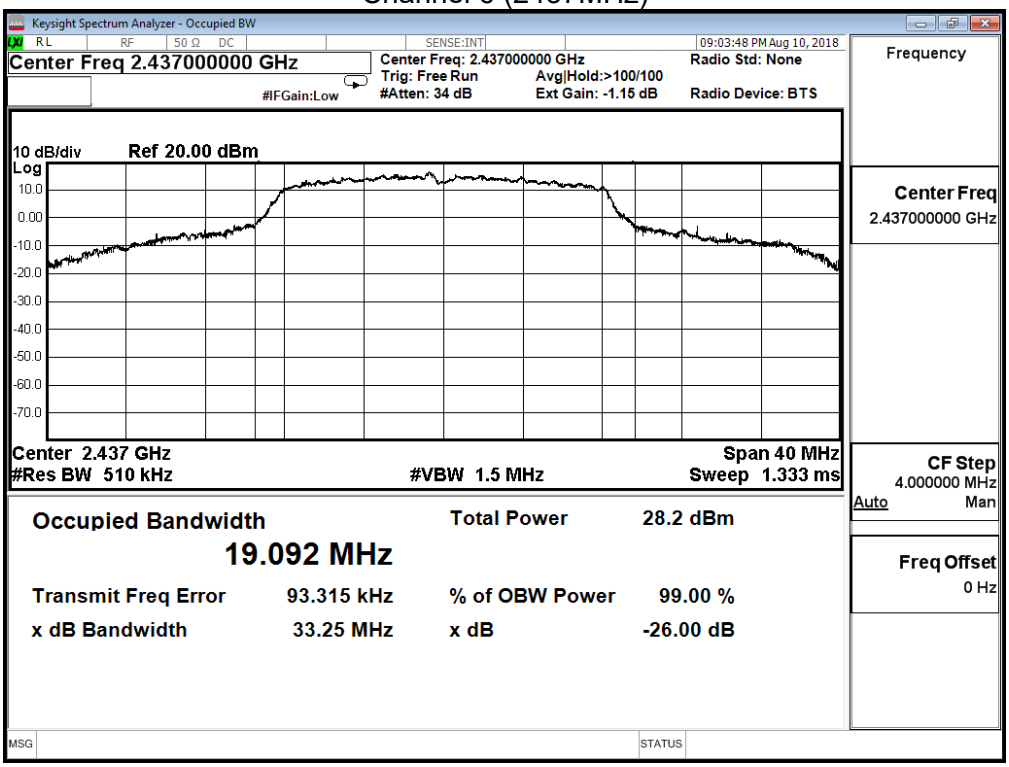
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

802.11g (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	16.914	---
6	2437	19.092	---
11	2462	16.944	---

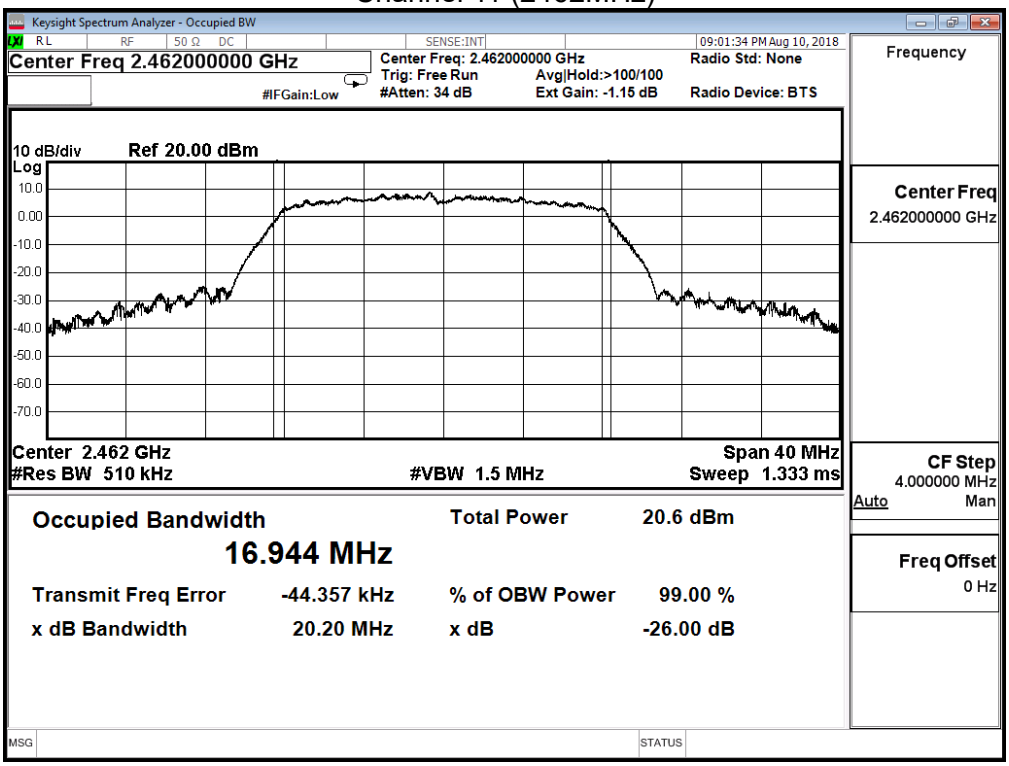
Channel 1 (2412MHz)



Channel 6 (2437MHz)



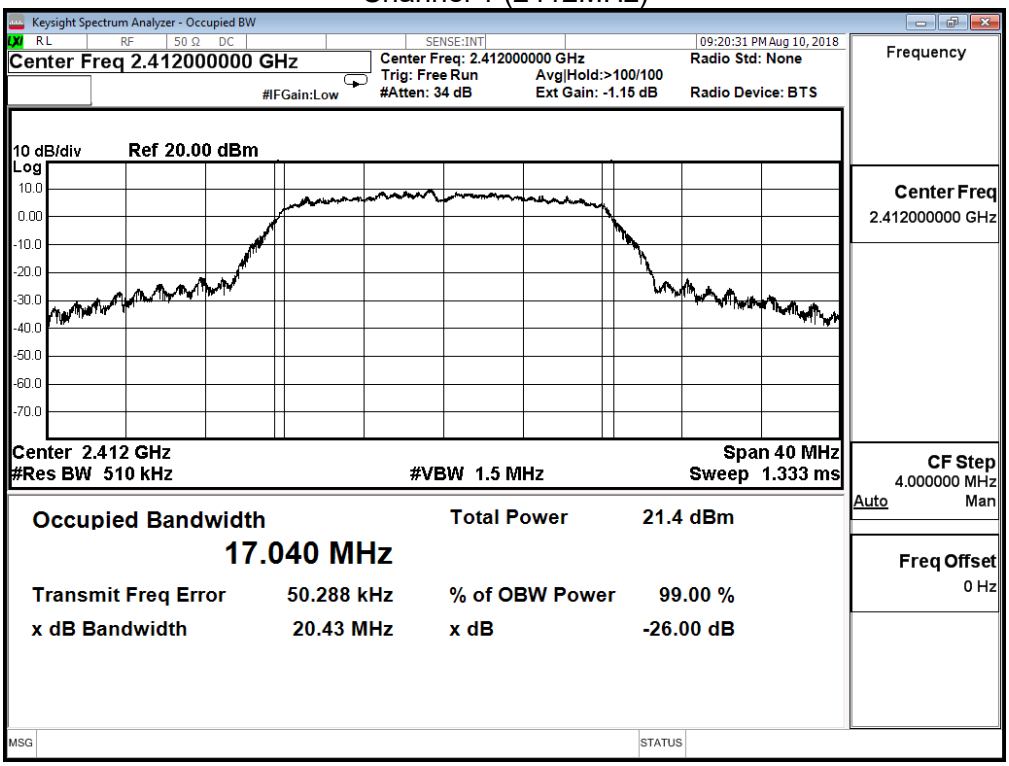
Channel 11 (2462MHz)



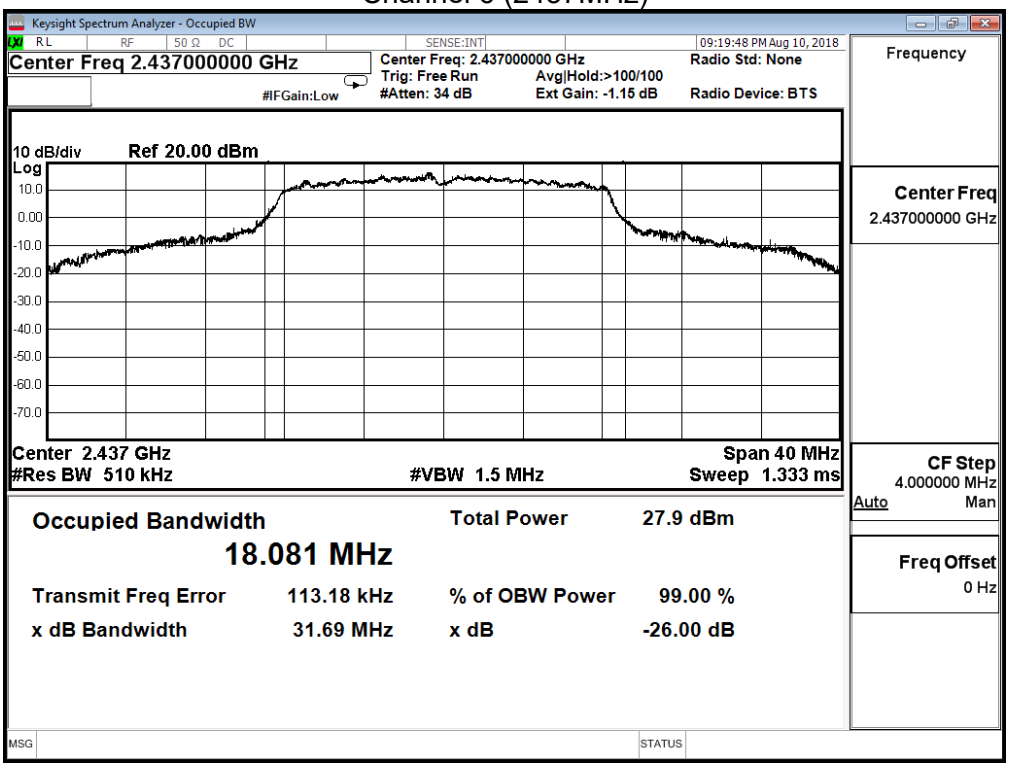
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

802.11g (ANT 2)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	17.040	---
6	2437	18.081	---
11	2462	16.949	---

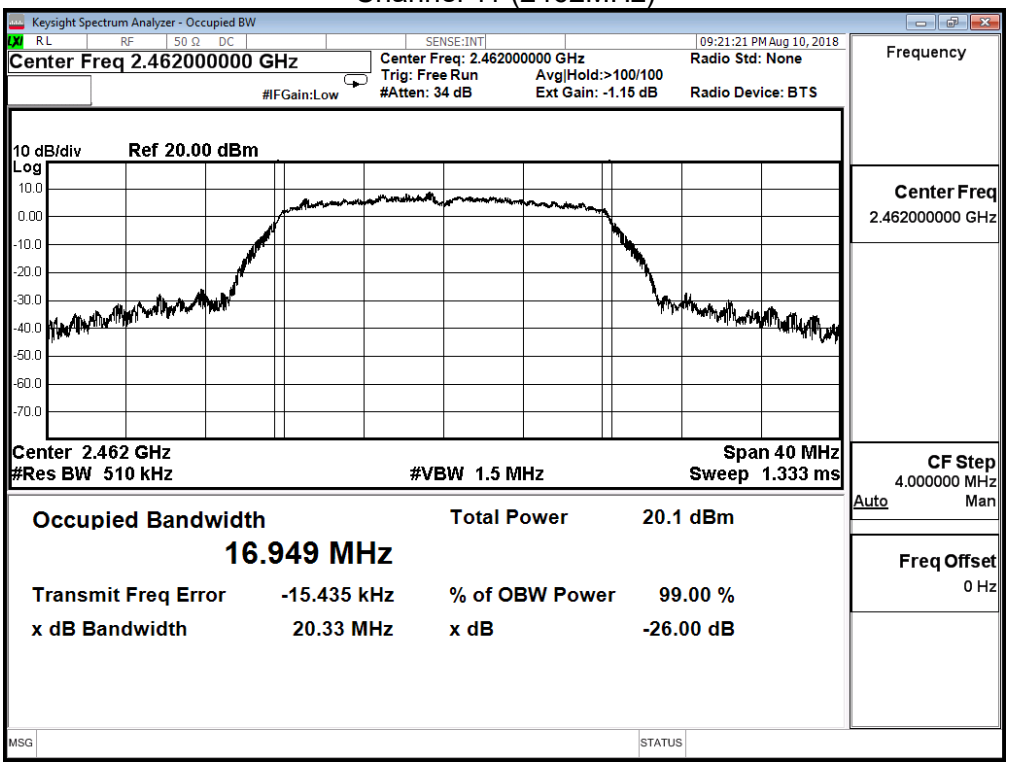
Channel 1 (2412MHz)



Channel 6 (2437MHz)



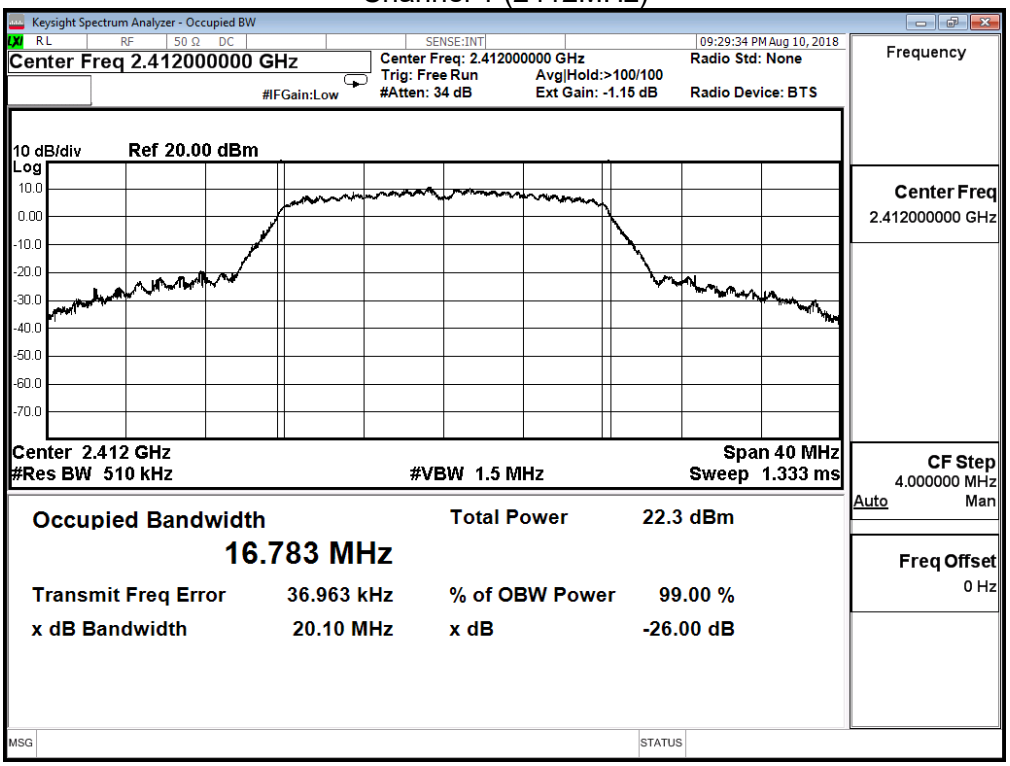
Channel 11 (2462MHz)



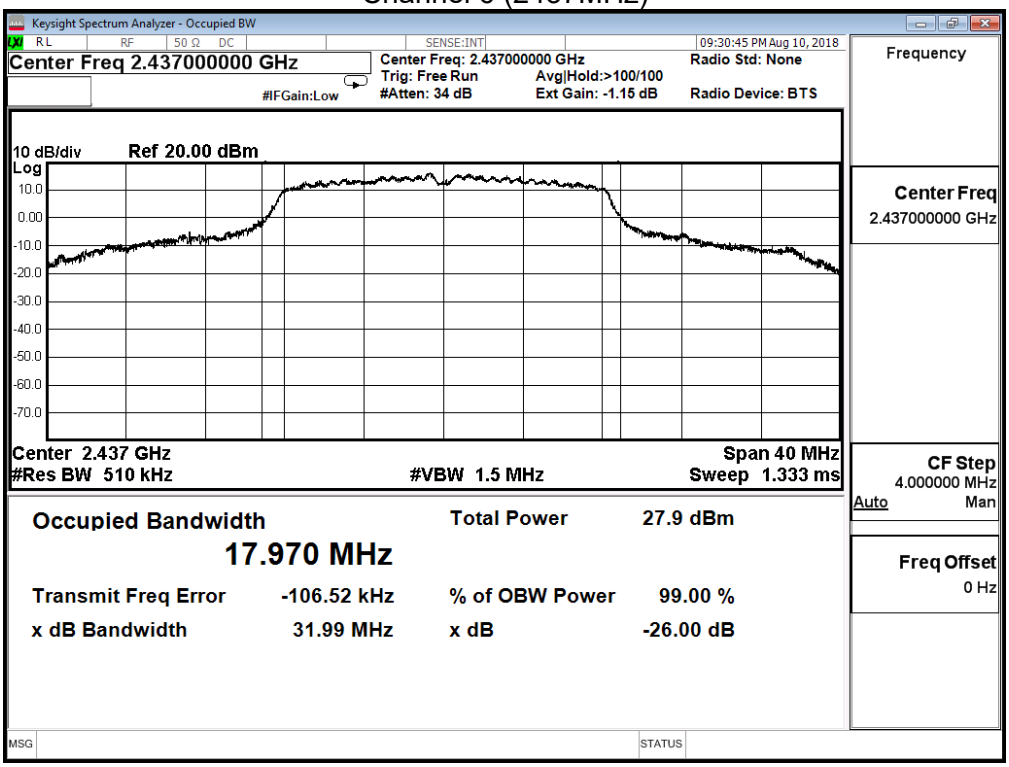
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

802.11g (ANT 3)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	16.783	---
6	2437	17.970	---
11	2462	16.735	---

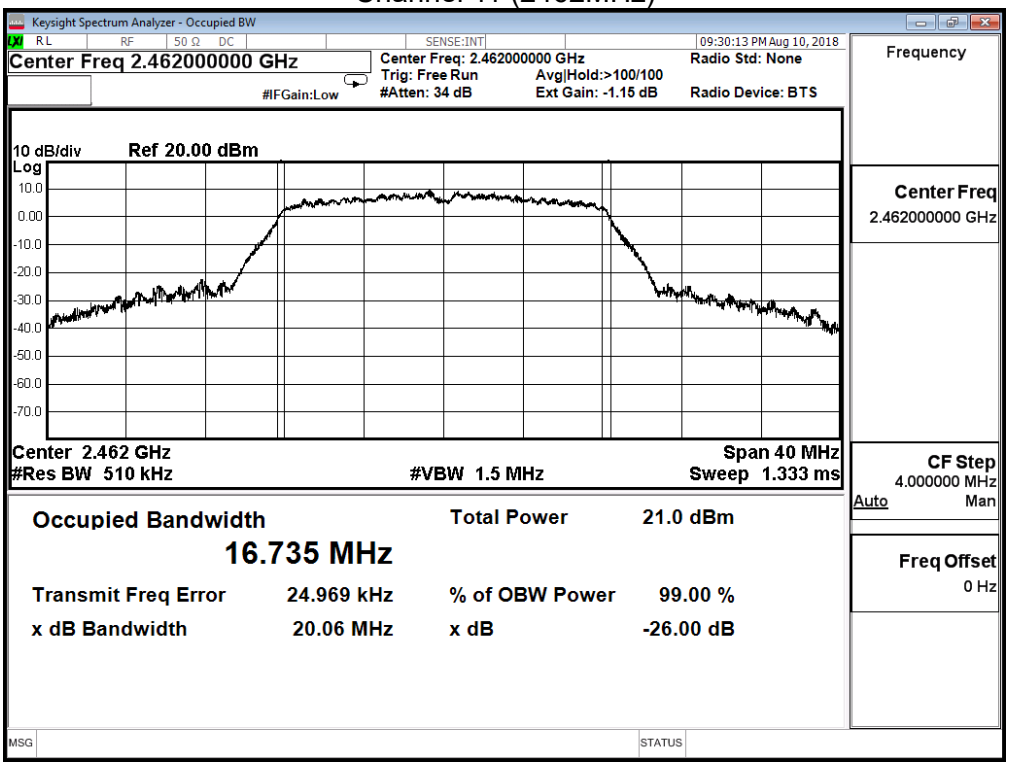
Channel 1 (2412MHz)



Channel 6 (2437MHz)



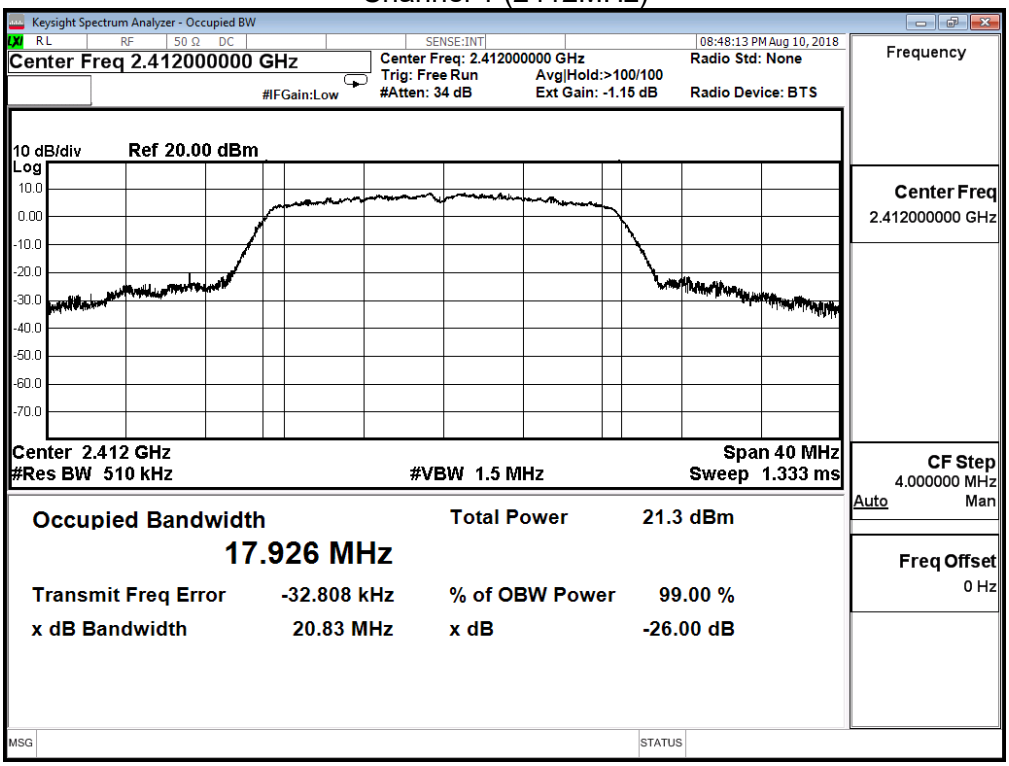
Channel 11 (2462MHz)



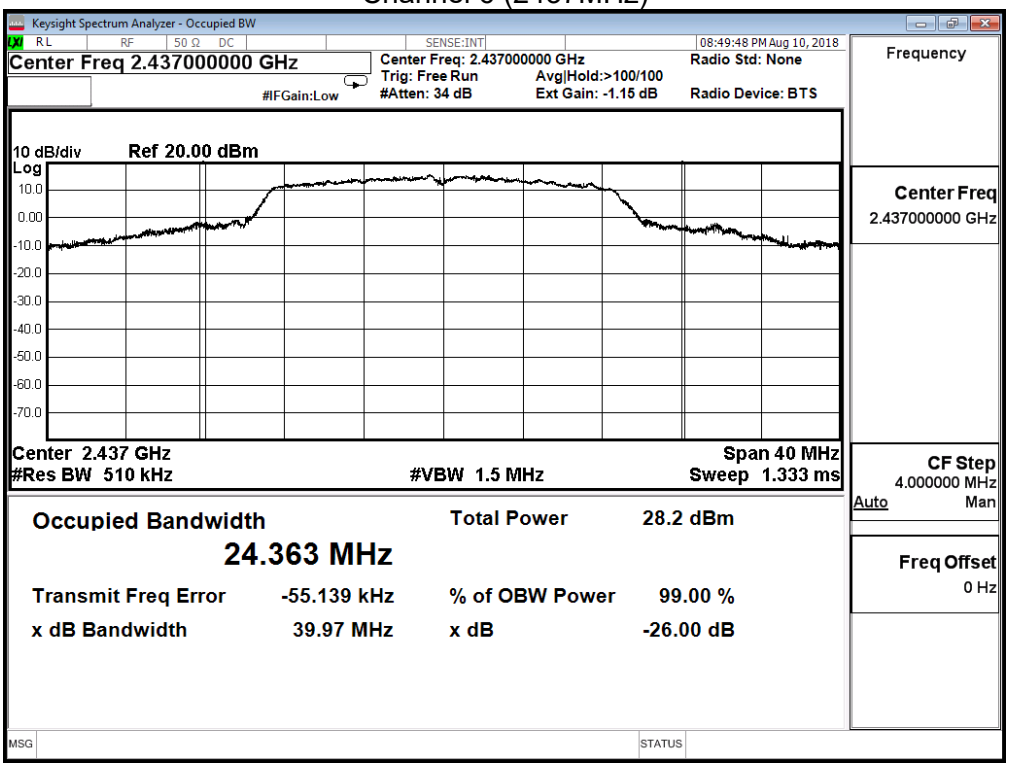
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 20M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	17.926	---
6	2437	24.363	---
11	2462	17.916	---

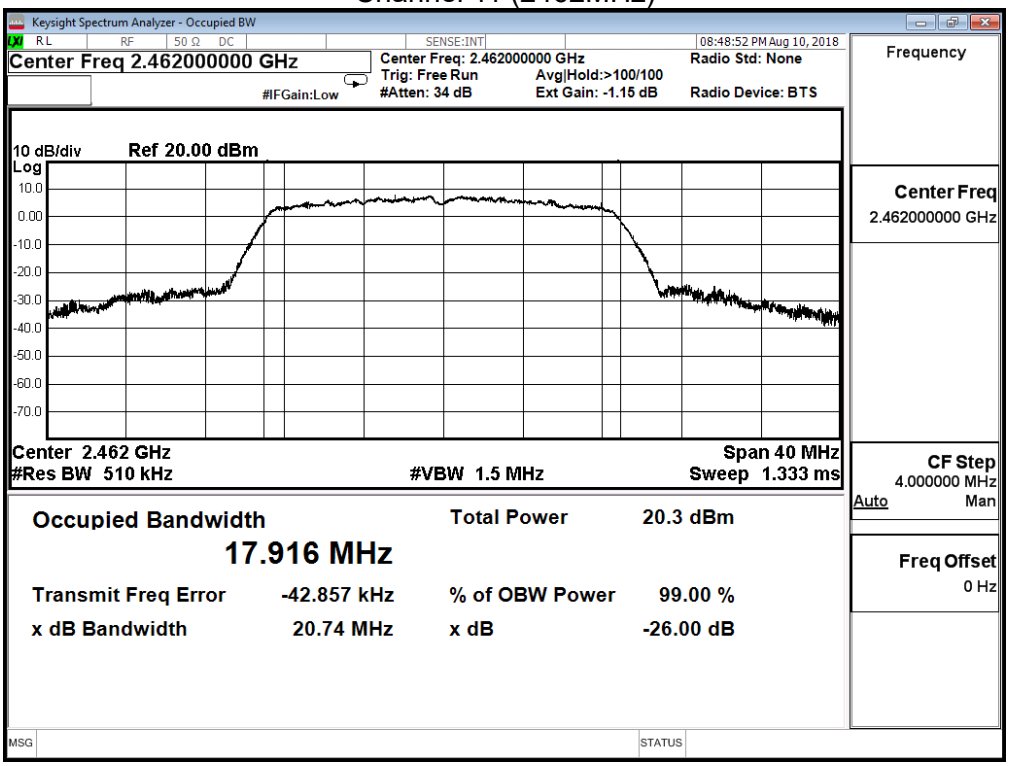
Channel 1 (2412MHz)



Channel 6 (2437MHz)



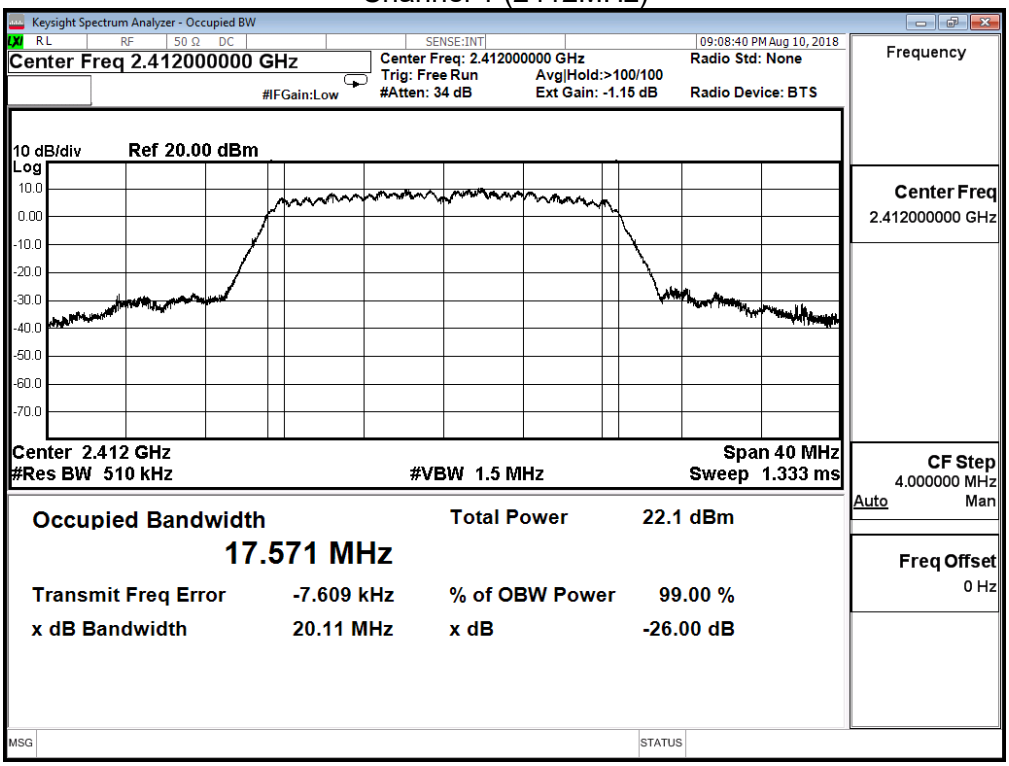
Channel 11 (2462MHz)



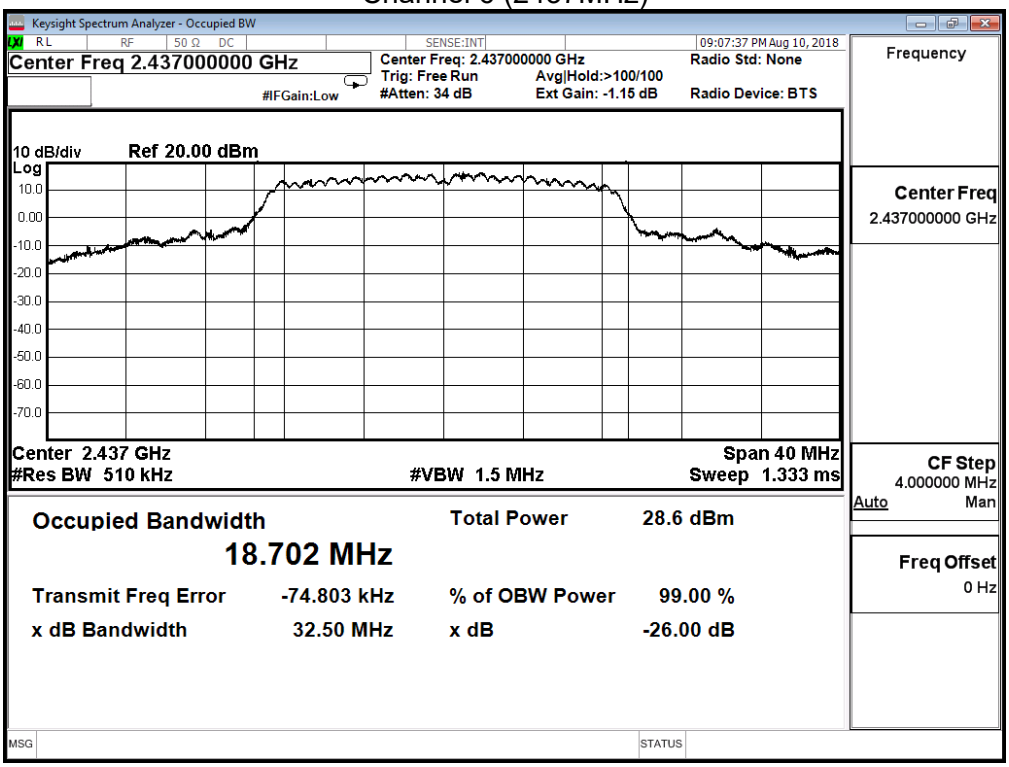
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 20M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	17.571	---
6	2437	18.702	---
11	2462	17.593	---

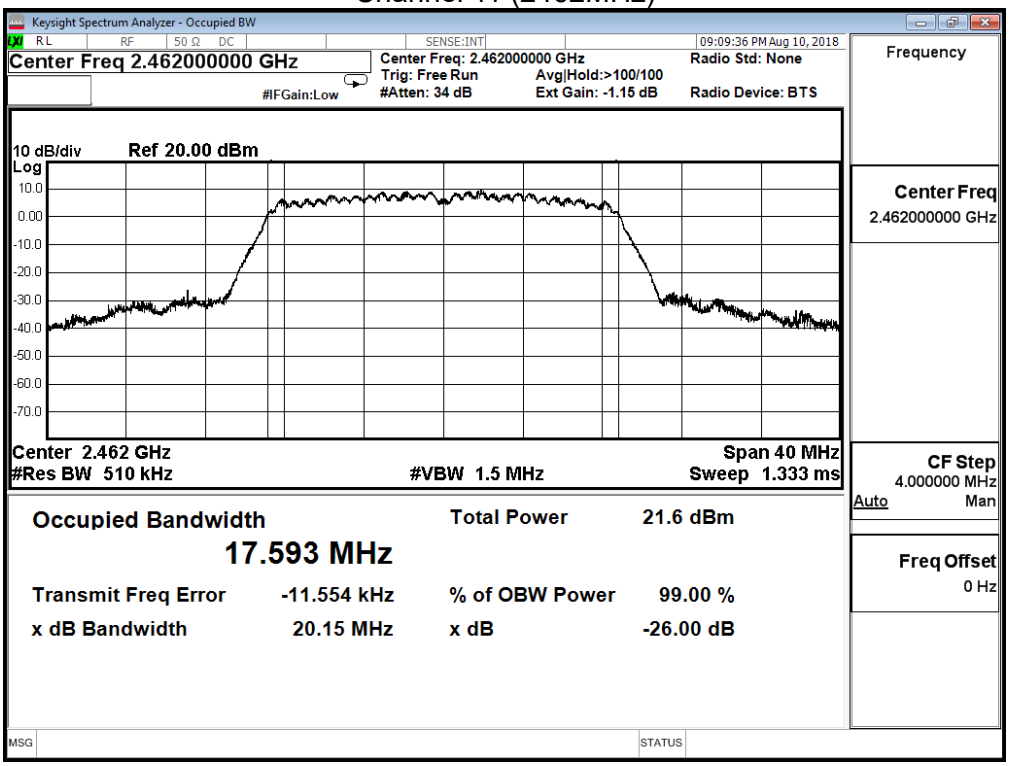
Channel 1 (2412MHz)



Channel 6 (2437MHz)



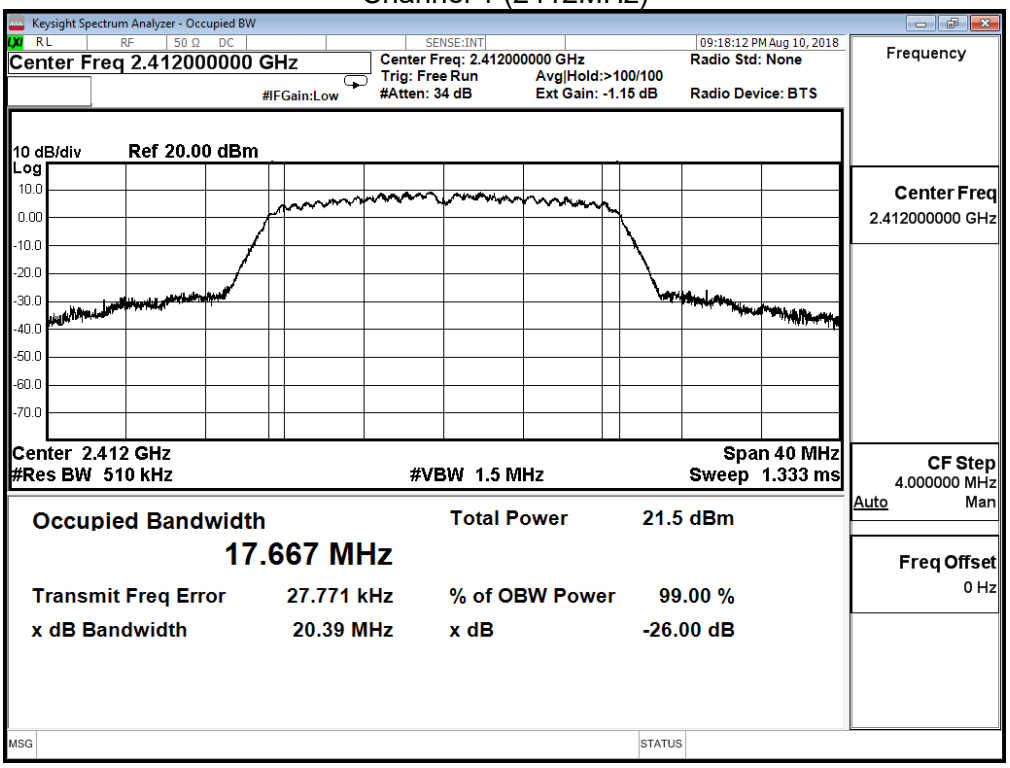
Channel 11 (2462MHz)



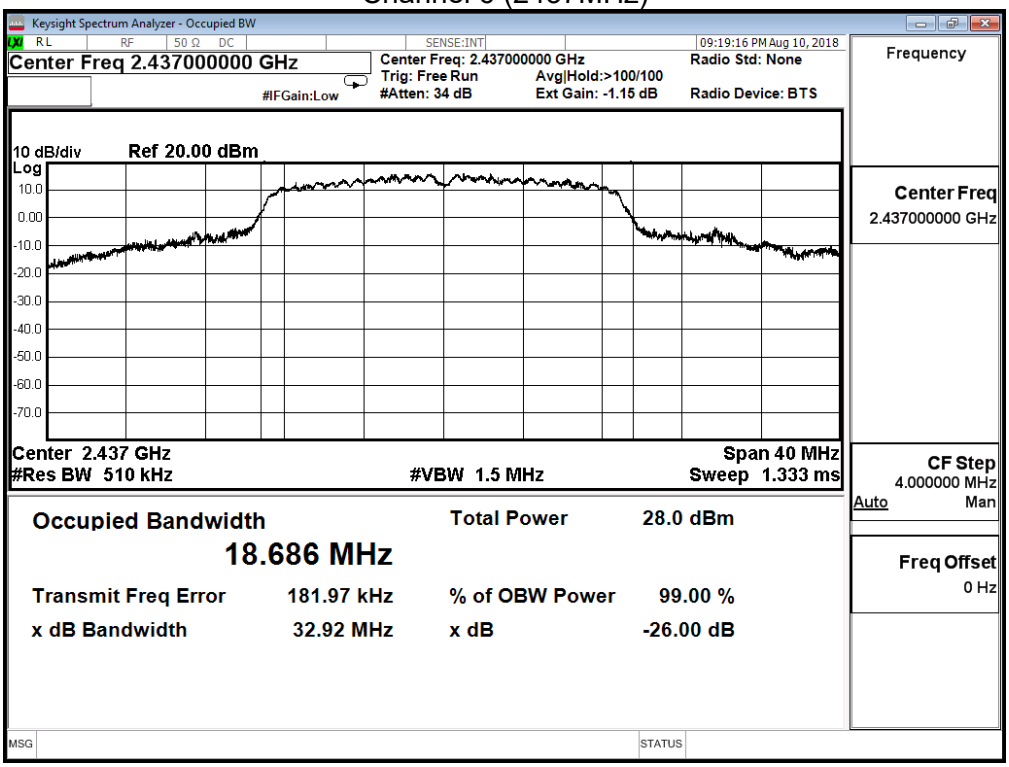
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 20M (ANT 2)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	17.667	---
6	2437	18.686	---
11	2462	17.638	---

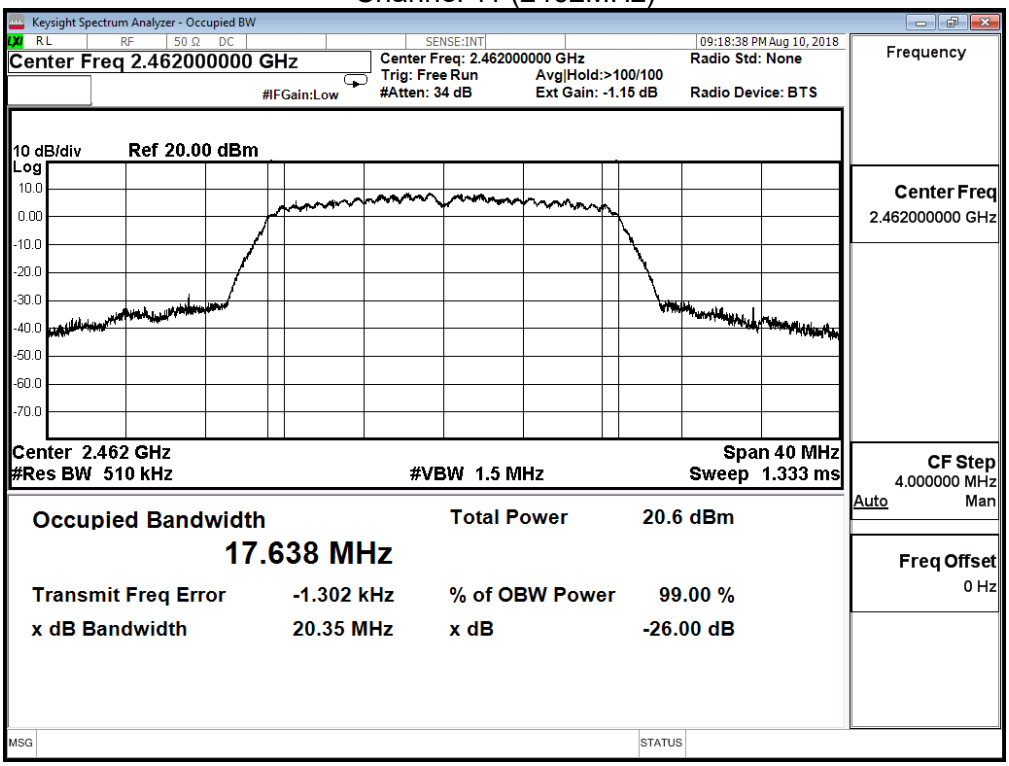
Channel 1 (2412MHz)



Channel 6 (2437MHz)



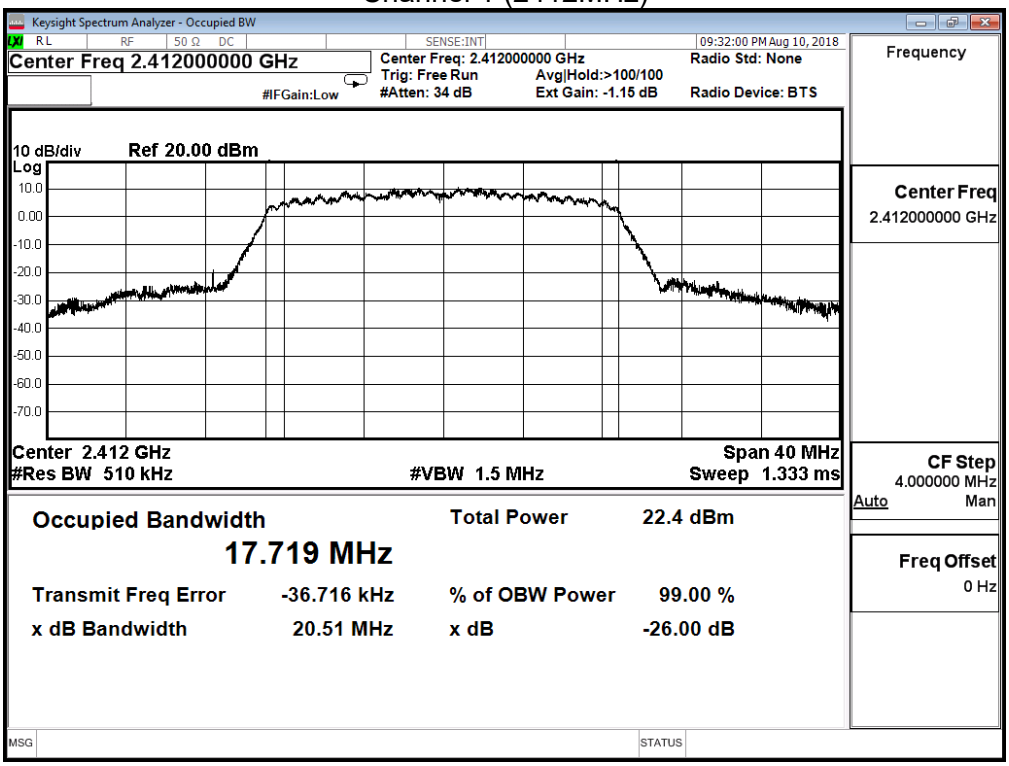
Channel 11 (2462MHz)



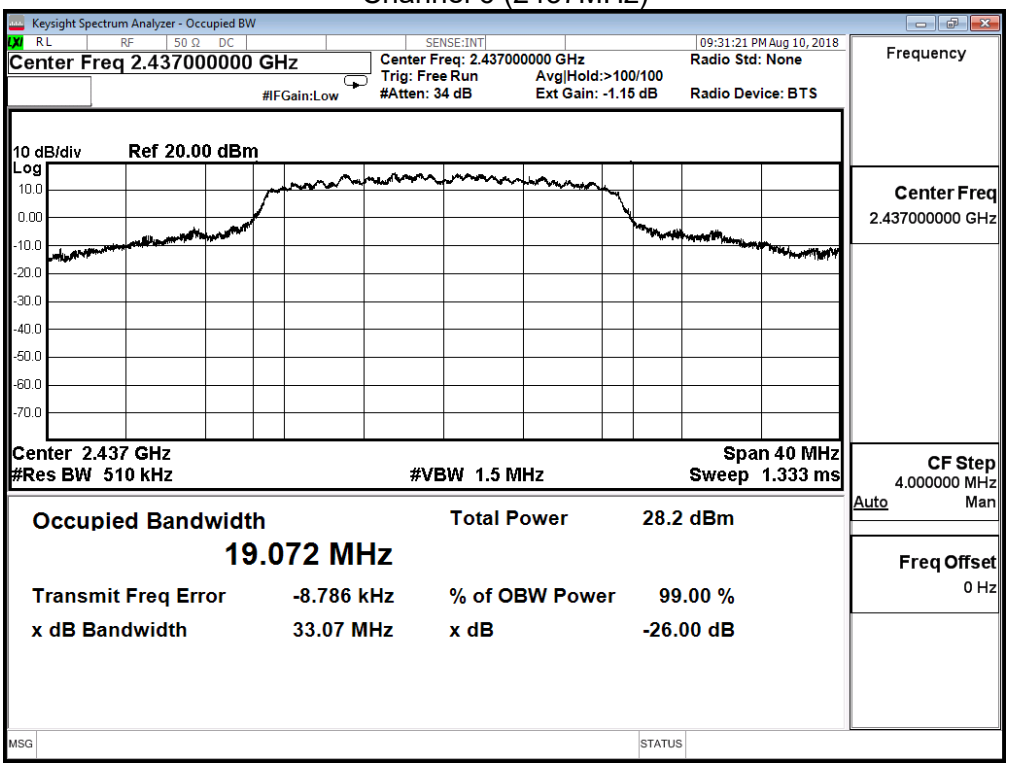
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 20M (ANT 3)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
1	2412	17.719	---
6	2437	19.072	---
11	2462	17.703	---

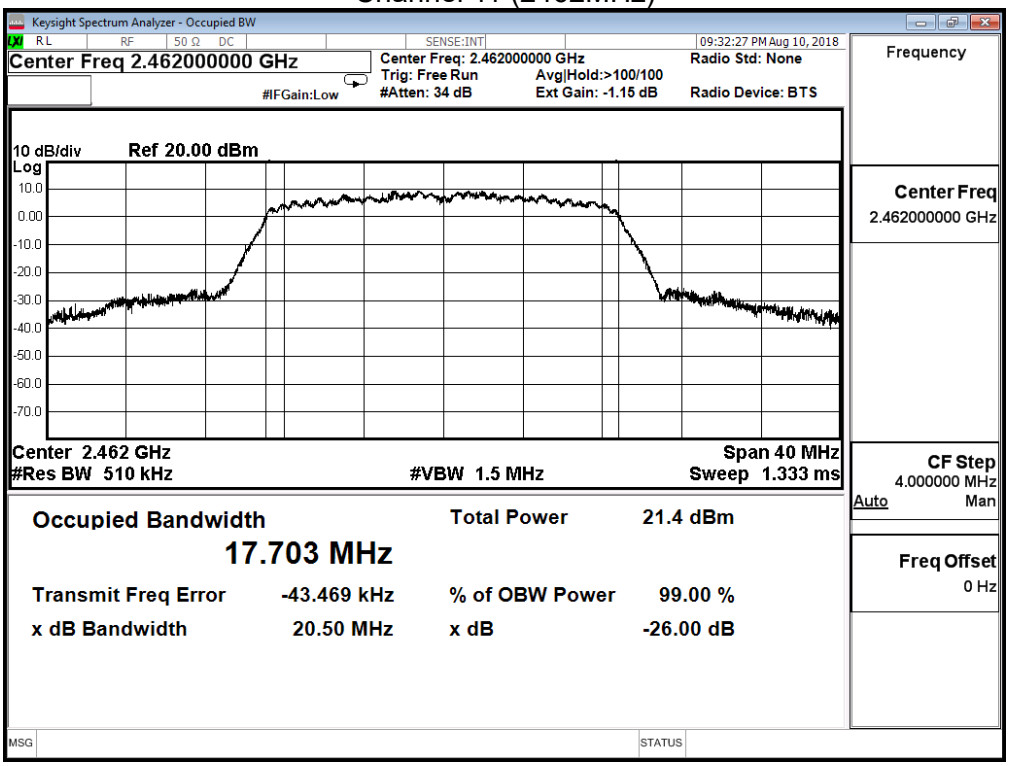
Channel 1 (2412MHz)



Channel 6 (2437MHz)



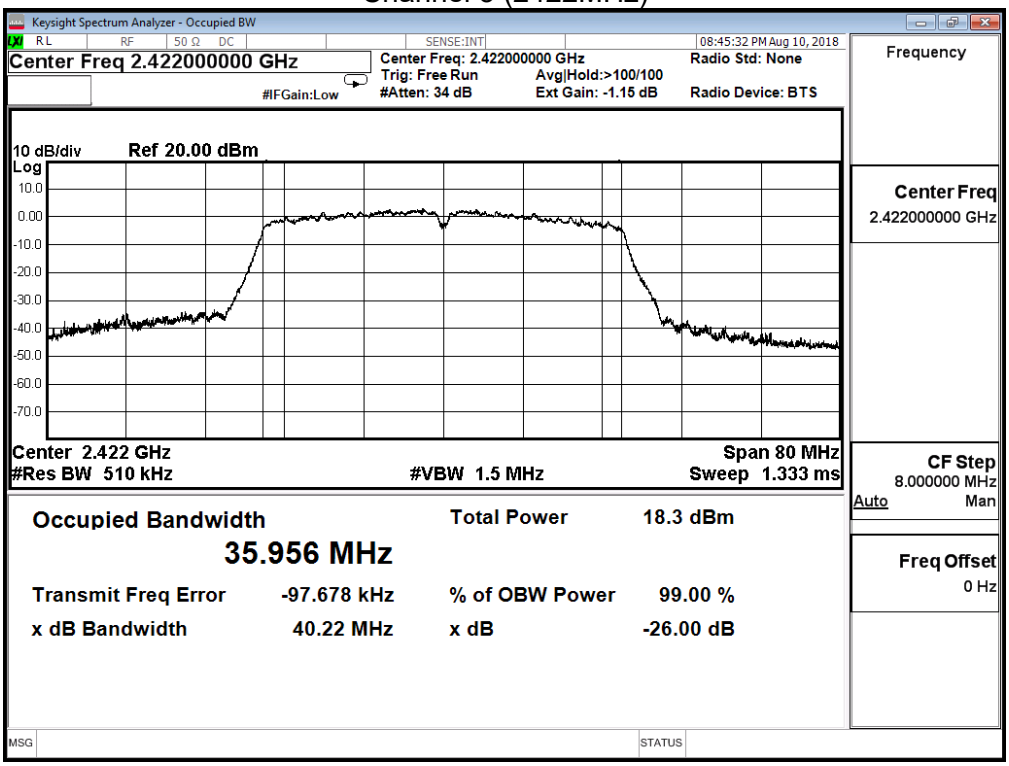
Channel 11 (2462MHz)



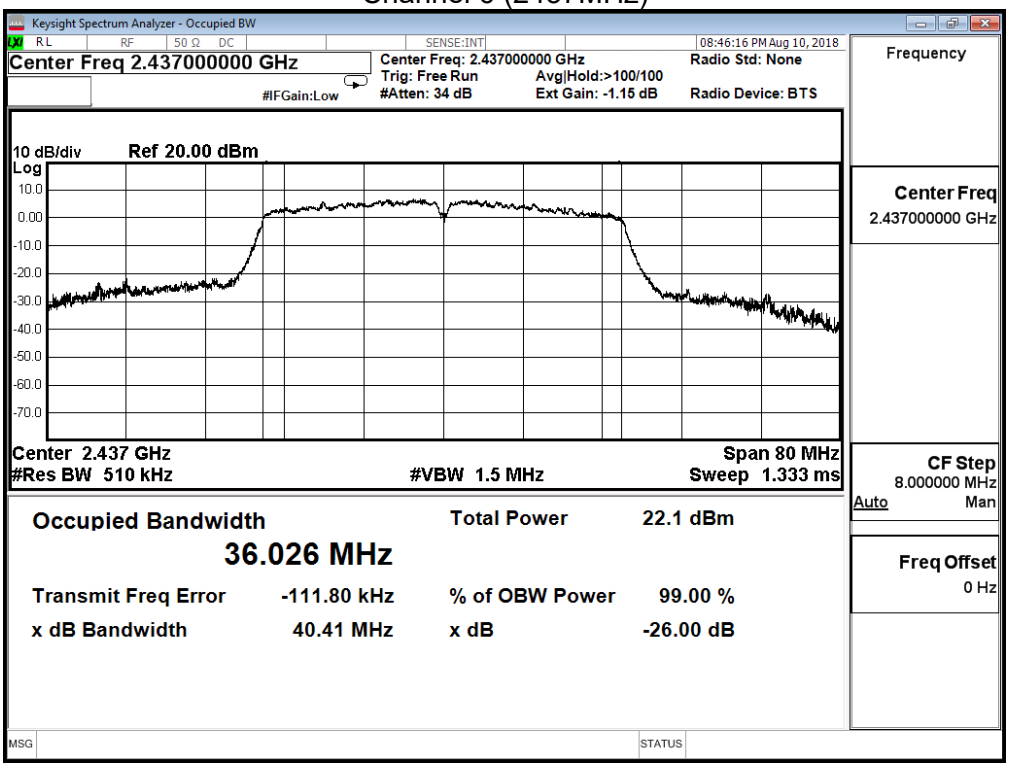
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 40M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
3	2422	35.956	---
6	2437	36.026	---
9	2452	35.984	---

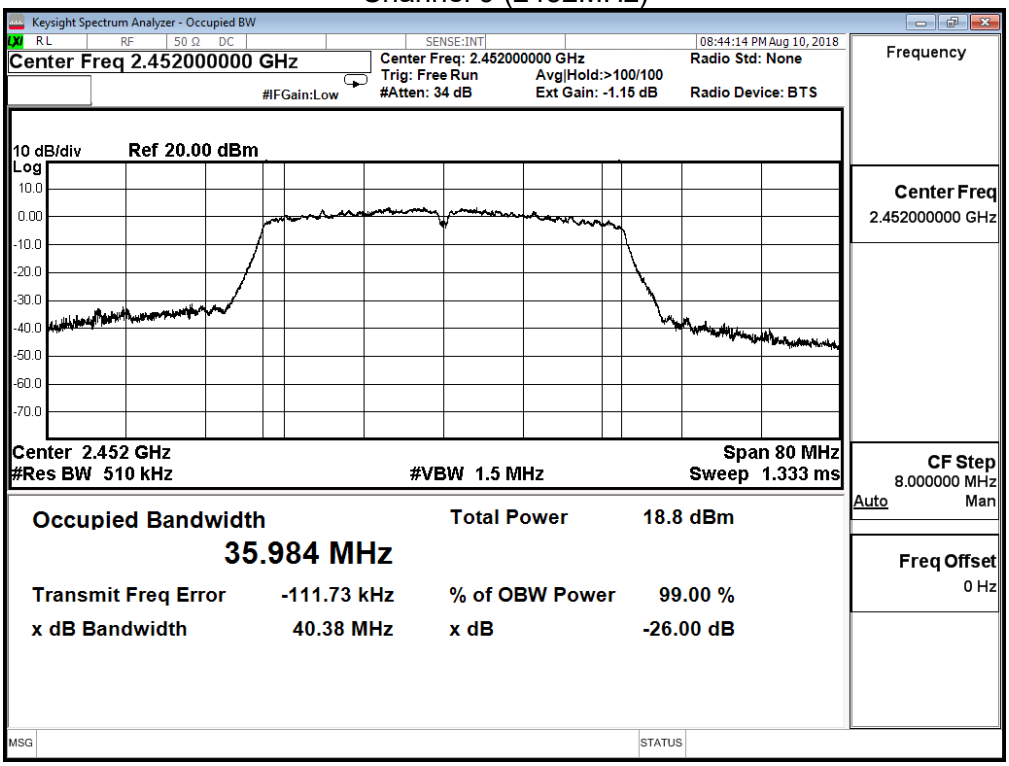
Channel 3 (2422MHz)



Channel 6 (2437MHz)



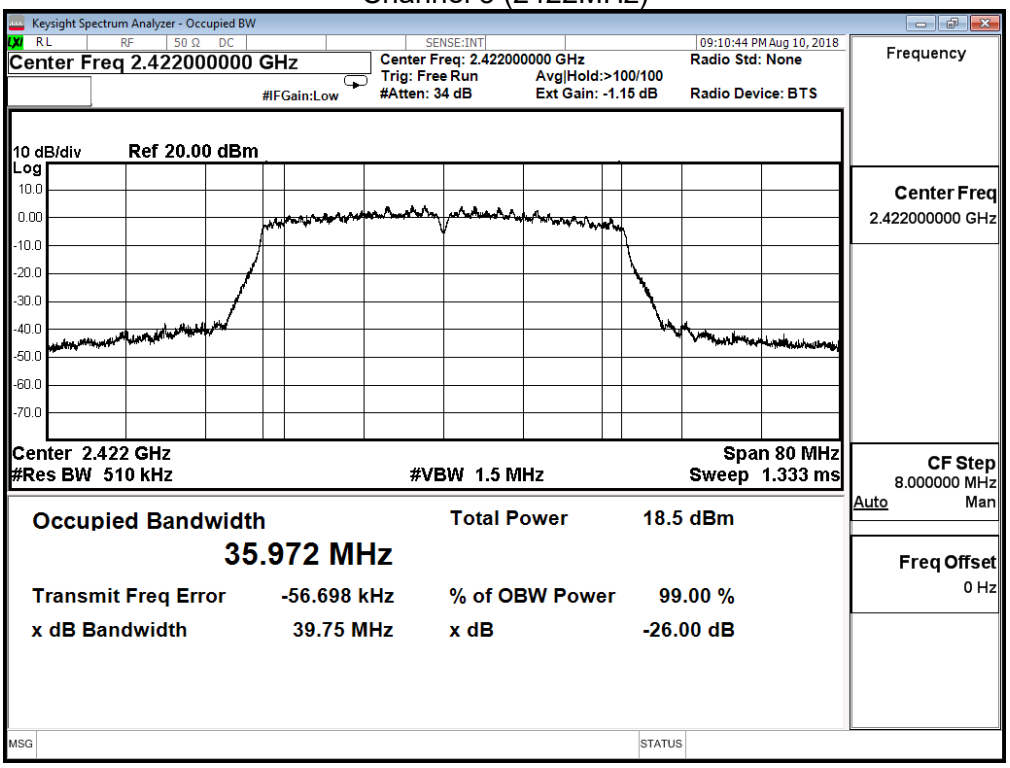
Channel 9 (2452MHz)



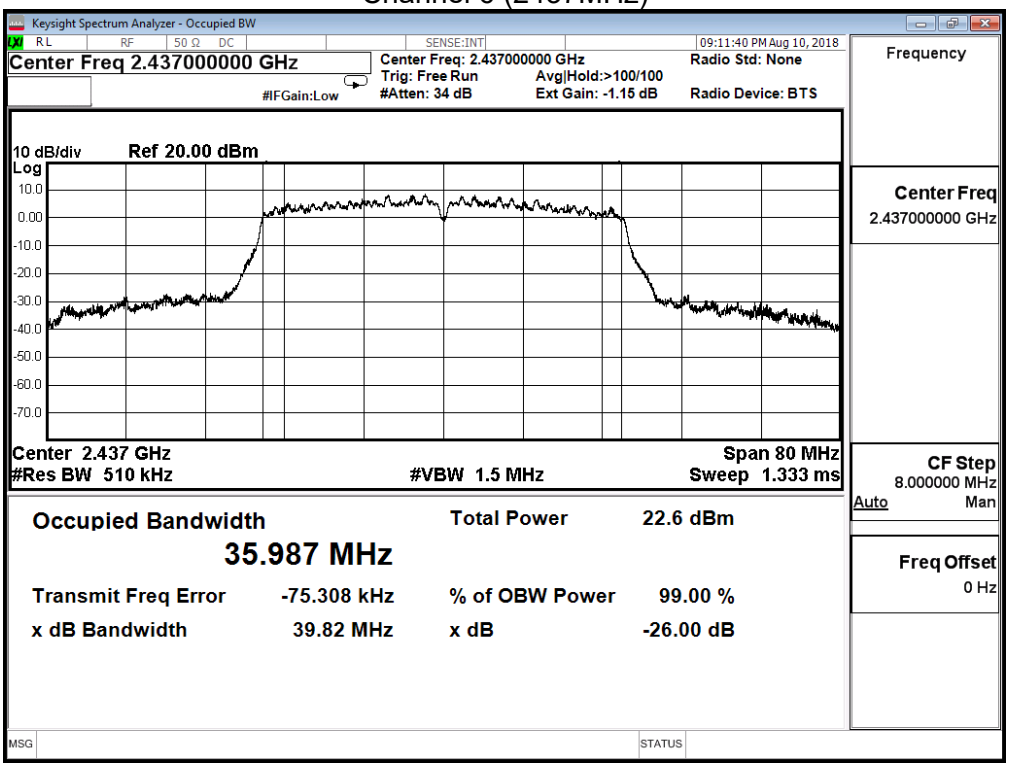
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 40M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
3	2422	35.972	---
6	2437	35.987	---
9	2452	35.976	---

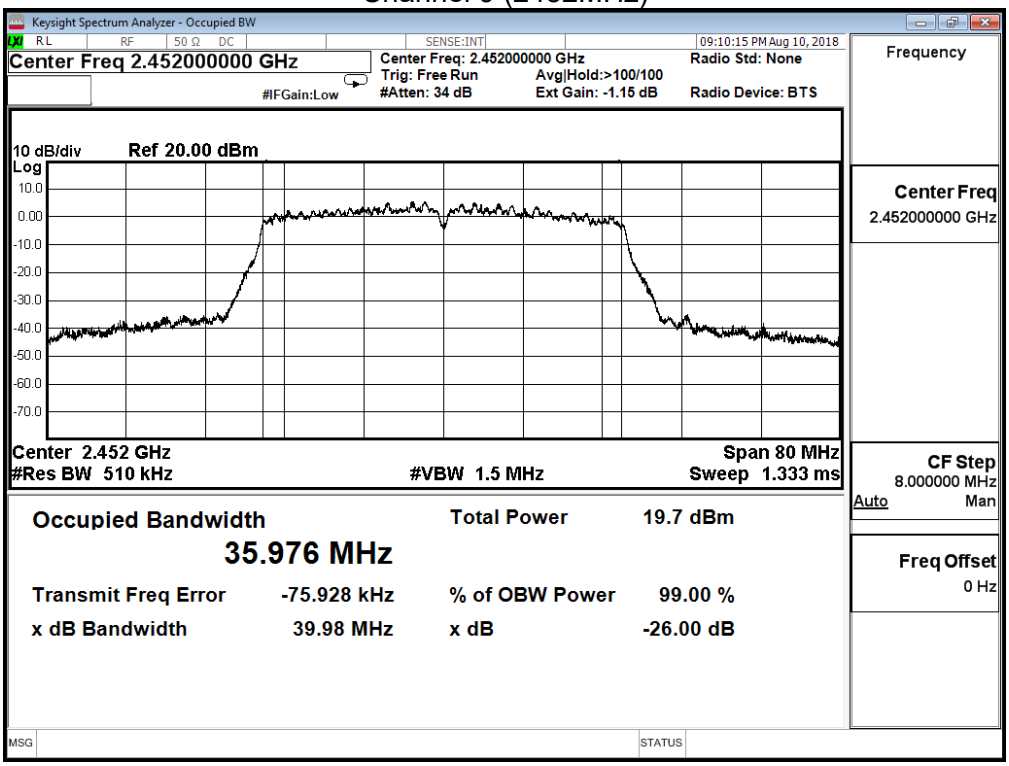
Channel 3 (2422MHz)



Channel 6 (2437MHz)



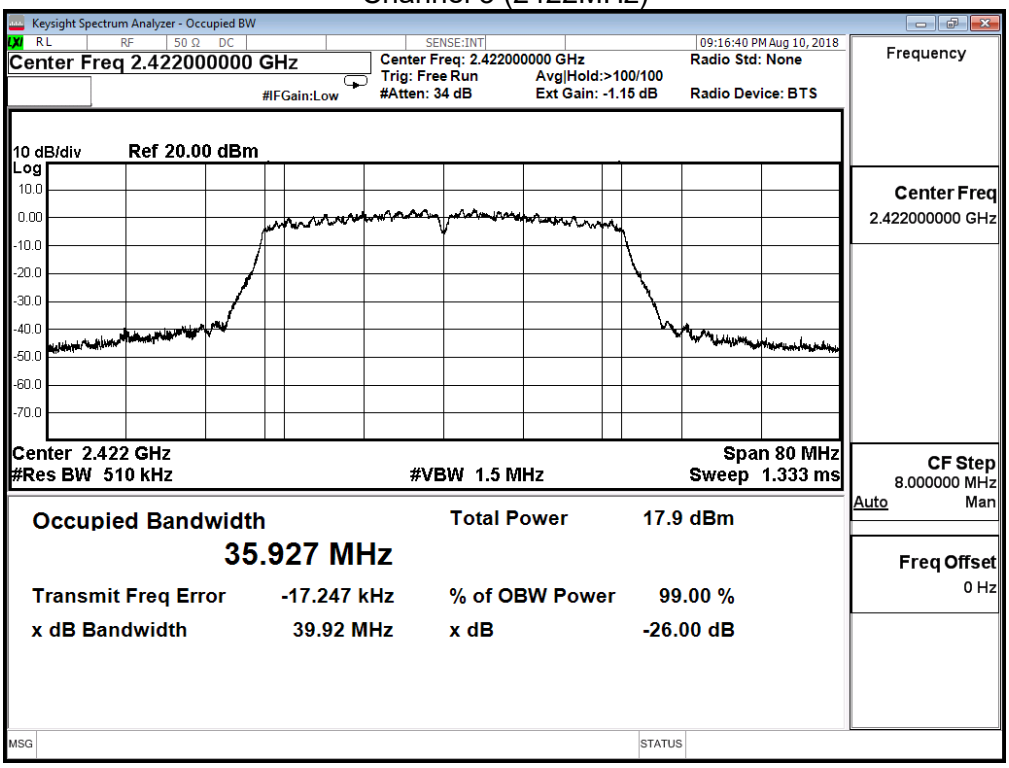
Channel 9 (2452MHz)



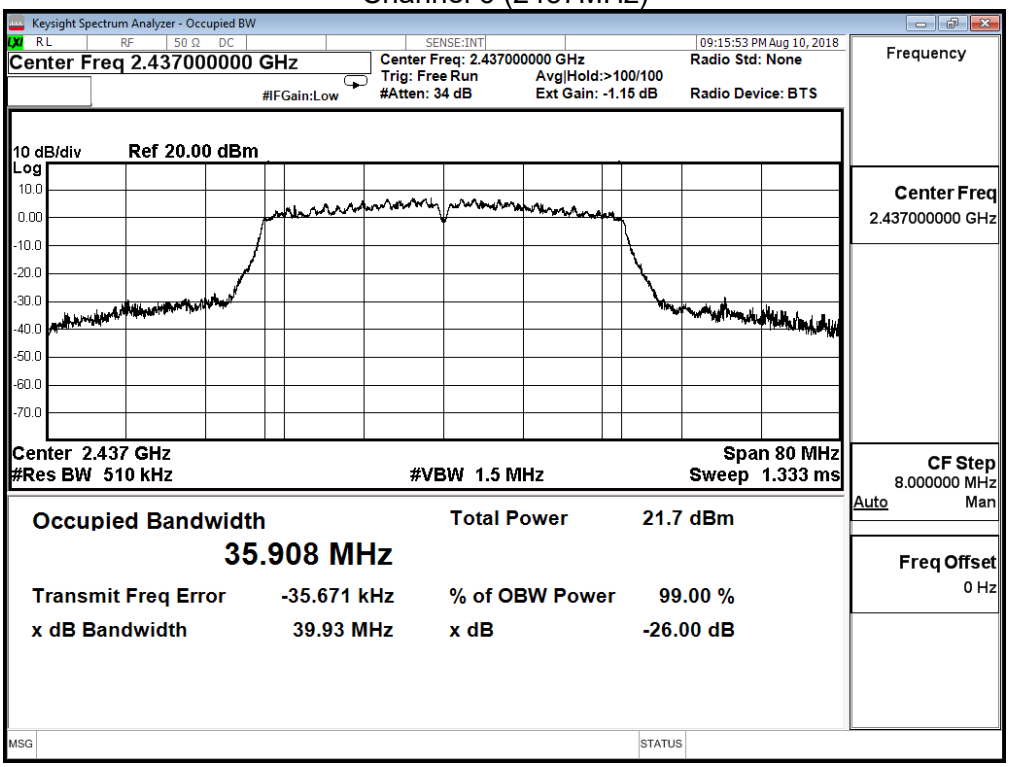
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 40M (ANT 2)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
3	2422	35.927	---
6	2437	35.908	---
9	2452	35.896	---

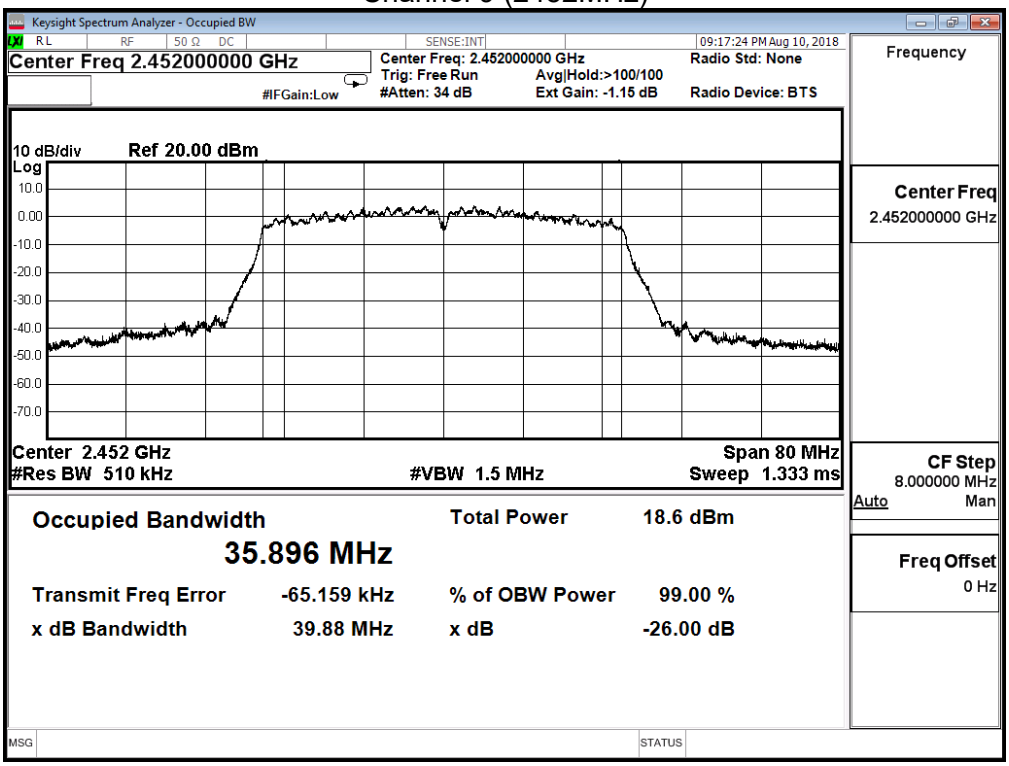
Channel 3 (2422MHz)



Channel 6 (2437MHz)



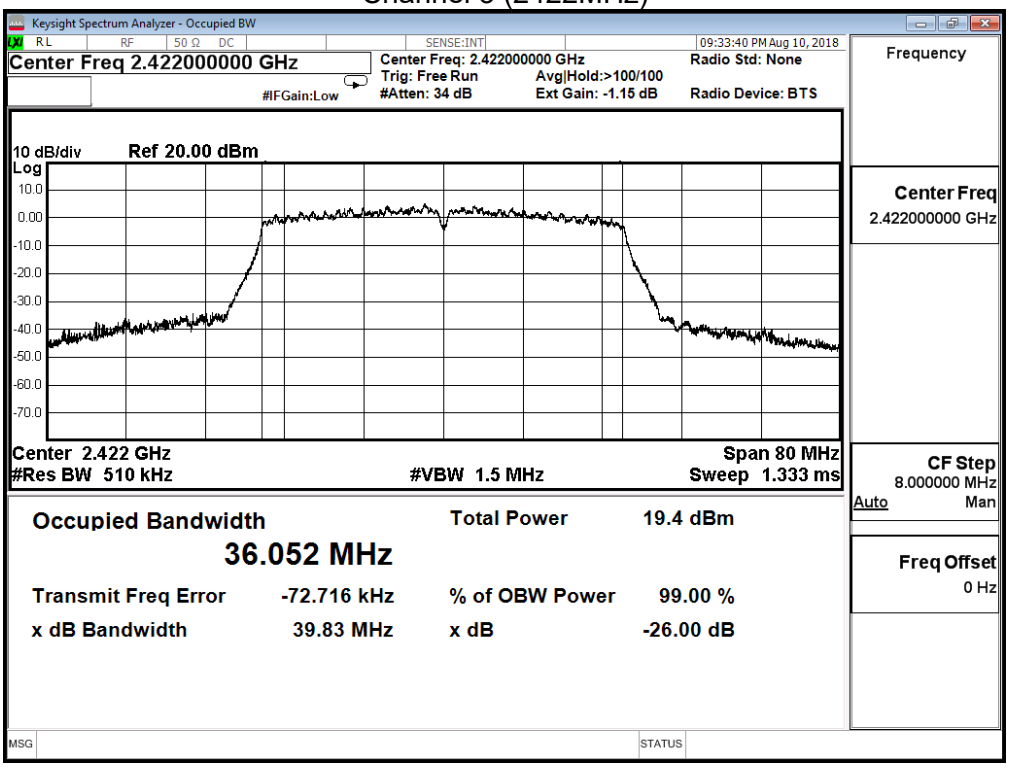
Channel 9 (2452MHz)



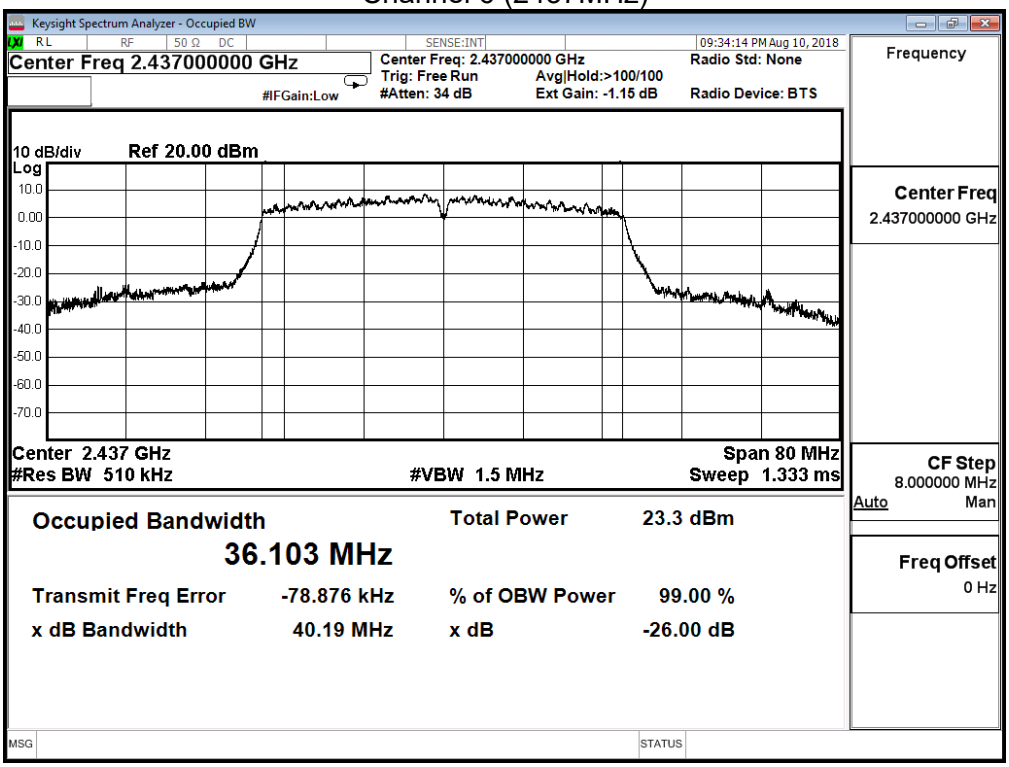
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 40M (ANT 3)			
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
3	2422	36.052	---
6	2437	36.103	---
9	2452	36.054	---

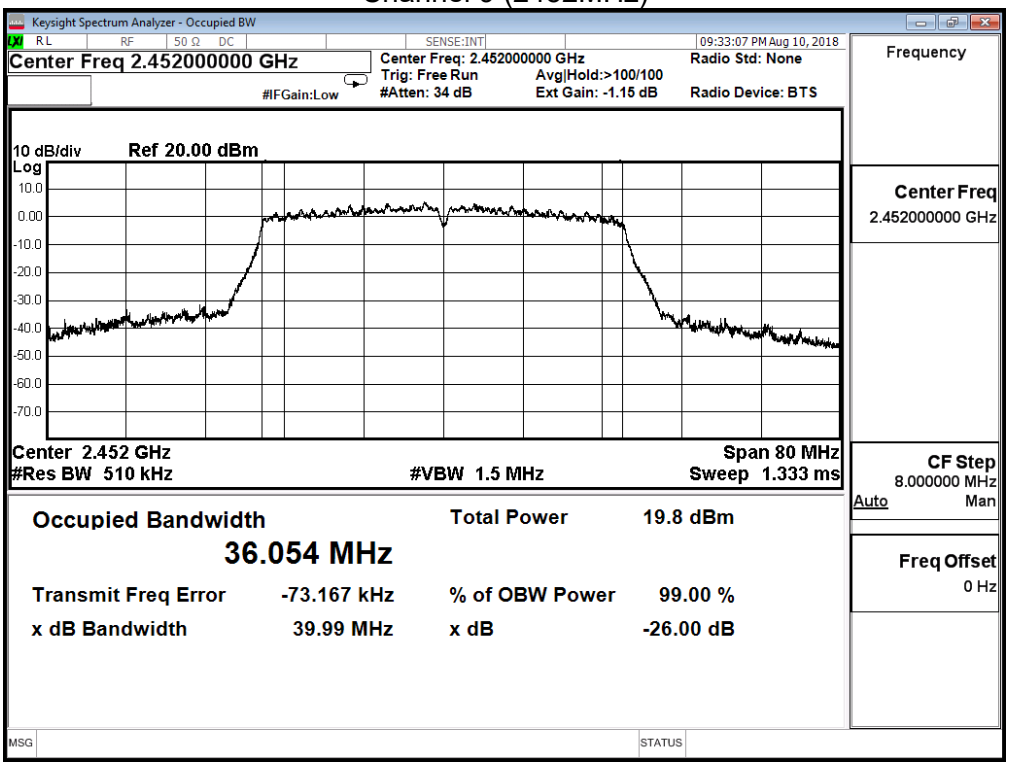
Channel 3 (2422MHz)



Channel 6 (2437MHz)

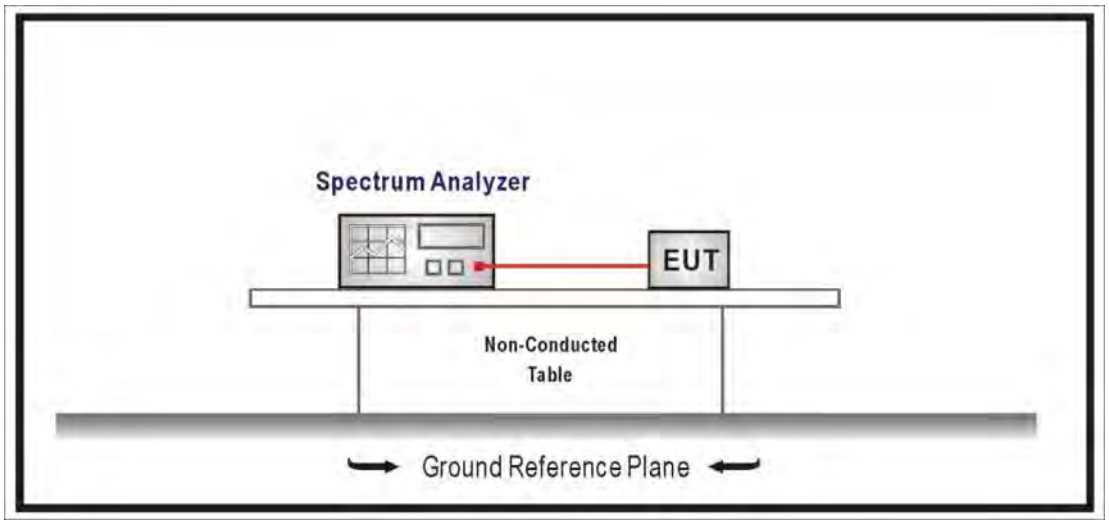


Channel 9 (2452MHz)



9. Power Density

9.1. Test Setup



9.2. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

9.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure section 10.2 of KDB558074 V05 for compliance to FCC 47CFR 15.247 requirements.
Set 3KHz ≦RBW≦100 kHz, Set VBW≧3xRBW, Sweep time=Auto, Set Peak detector.

9.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2017

9.5. Uncertainty

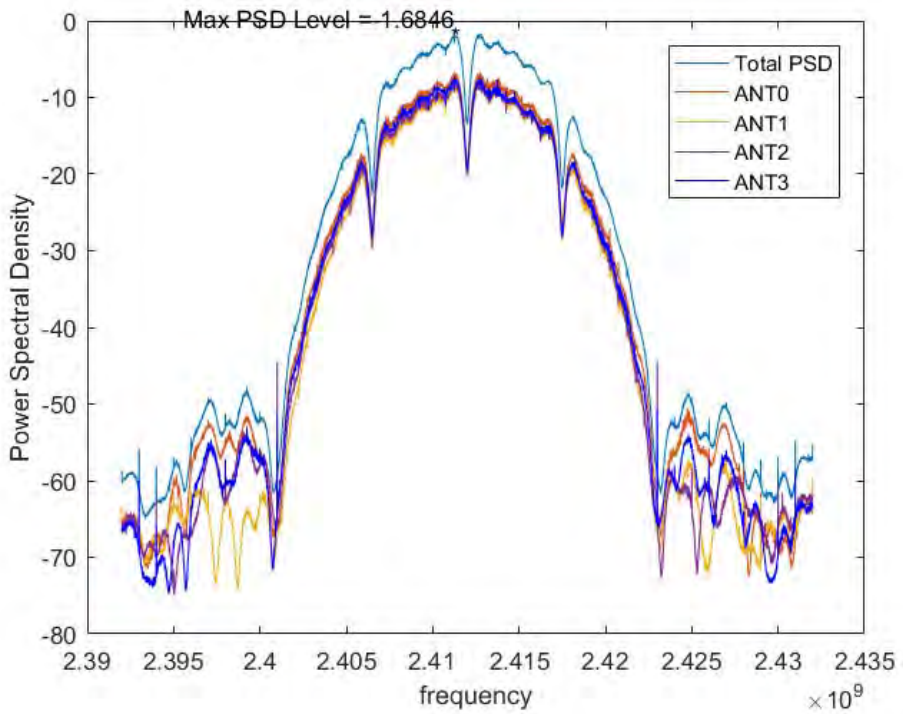
The measurement uncertainty is defined as ±1.27dB.

9.6. Test Result

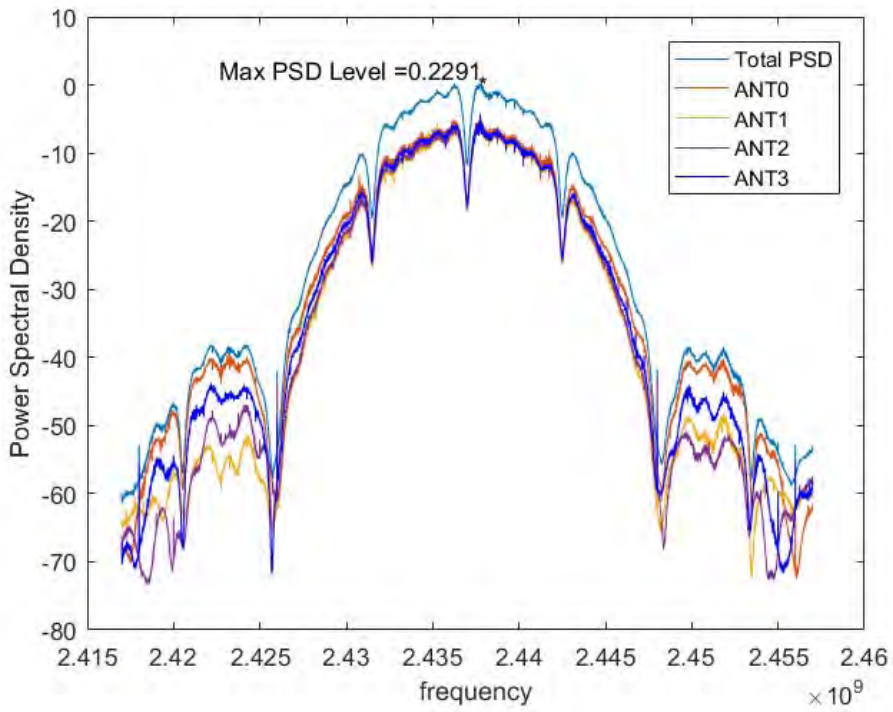
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11b (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-1.685	≦8	Pass
6	2437	0.229	≦8	Pass
11	2462	-2.965	≦8	Pass

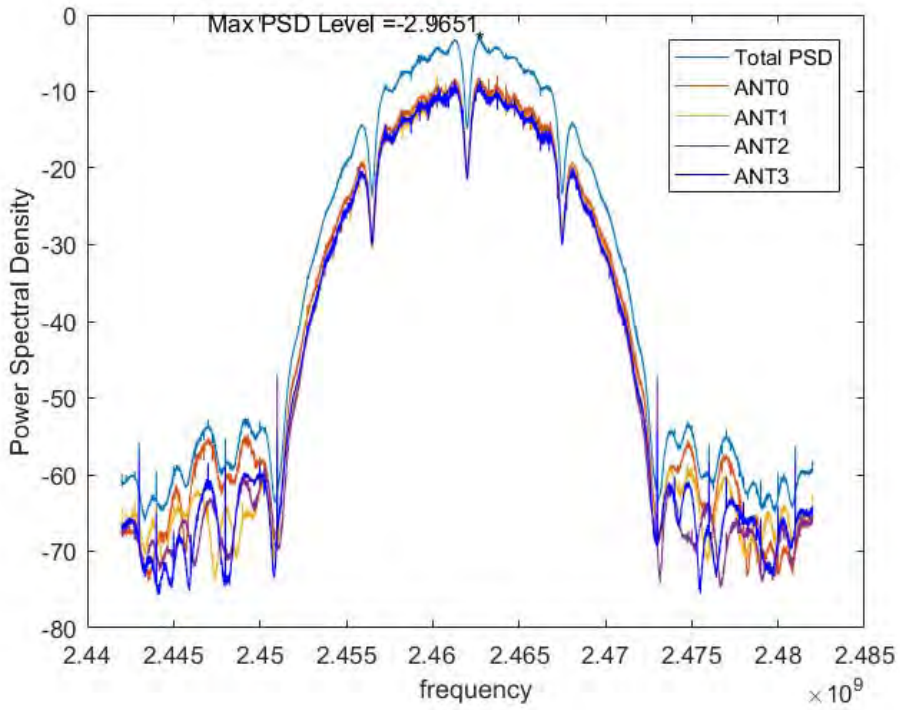
Channel 1 (2412MHz)



Channel 6 (2437MHz)



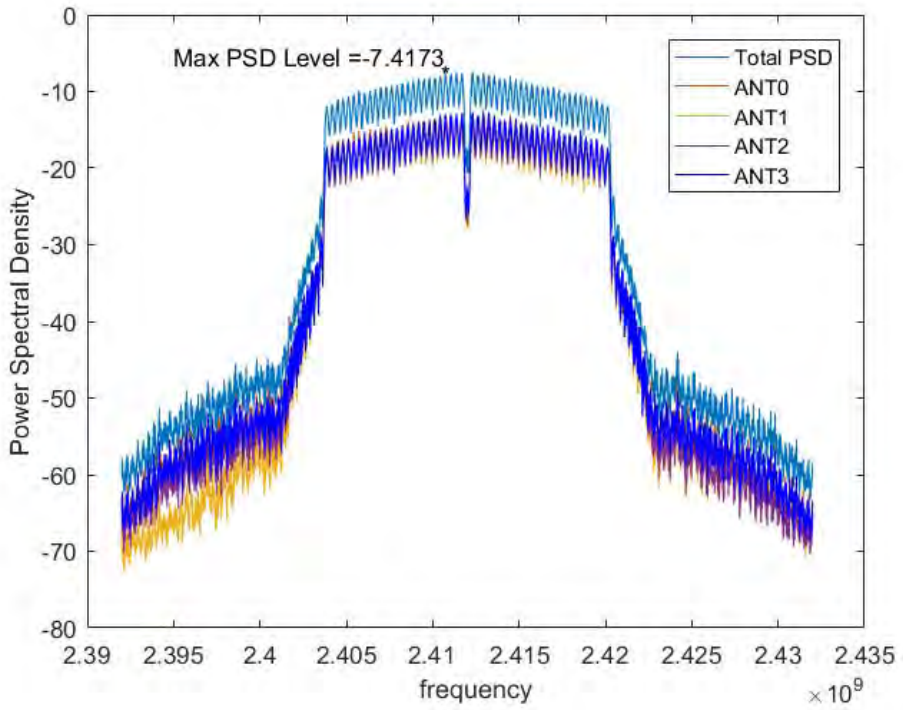
Channel 11 (2462MHz)



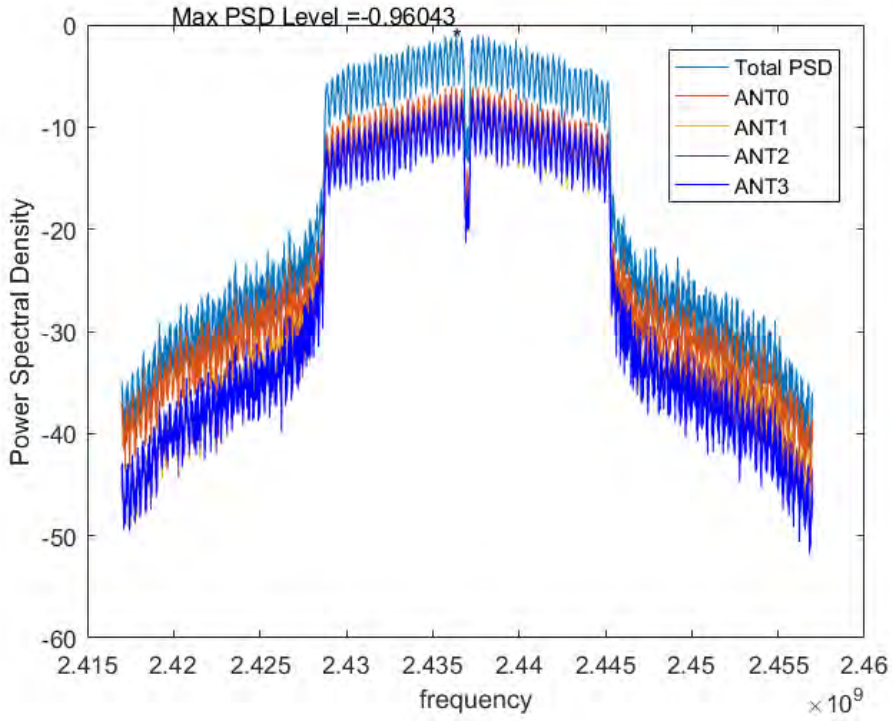
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11g (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-7.417	≦8	Pass
6	2437	-0.960	≦8	Pass
11	2462	-8.307	≦8	Pass

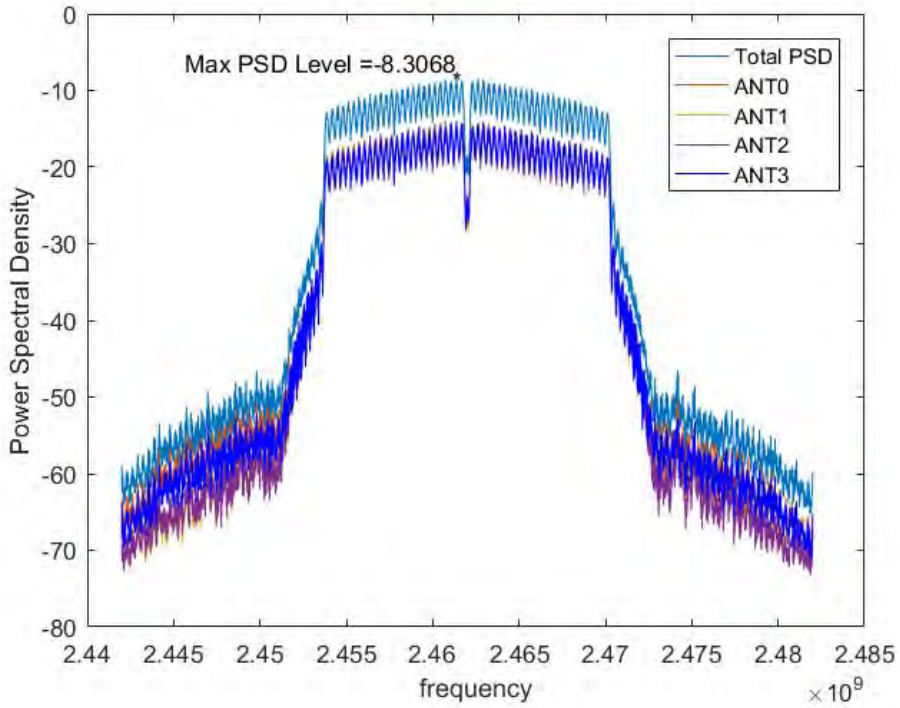
Channel 1 (2412MHz)



Channel 6 (2437MHz)



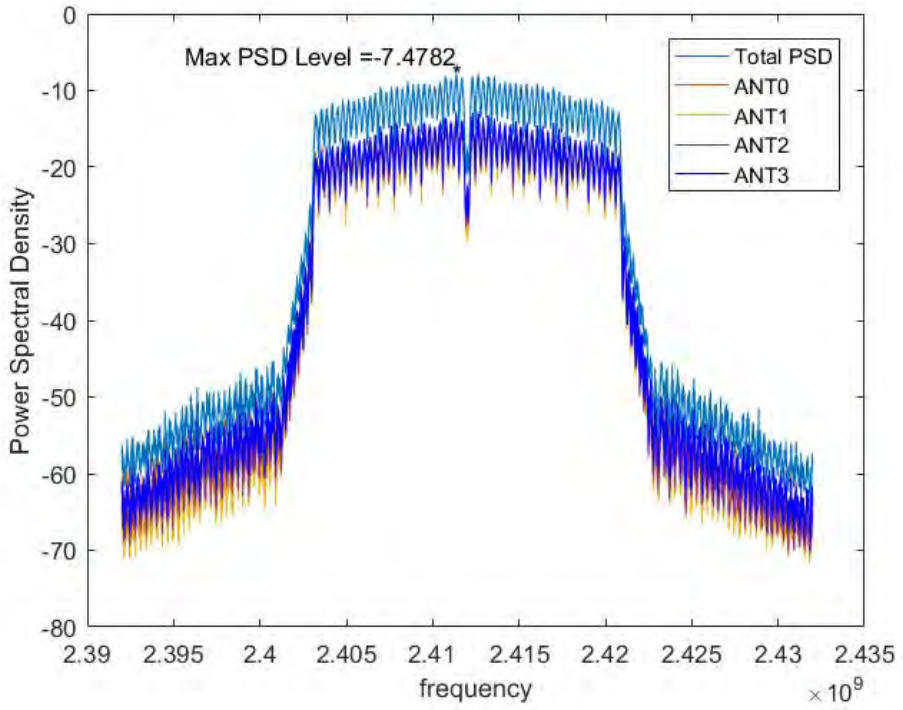
Channel 11 (2462MHz)



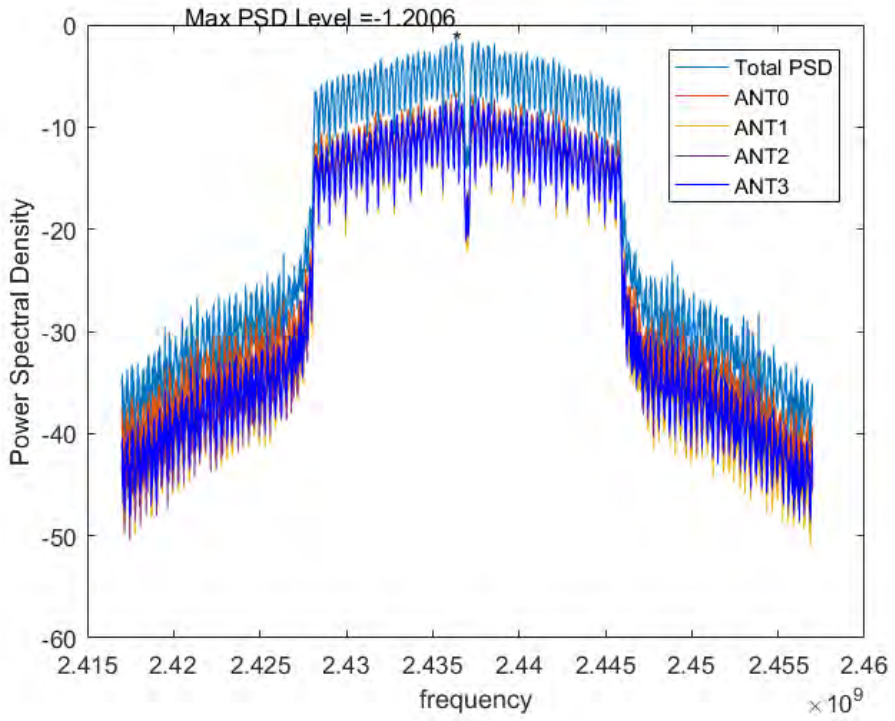
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 20M (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	2412	-7.479	≦8	Pass
6	2437	-1.201	≦8	Pass
11	2462	-8.546	≦8	Pass

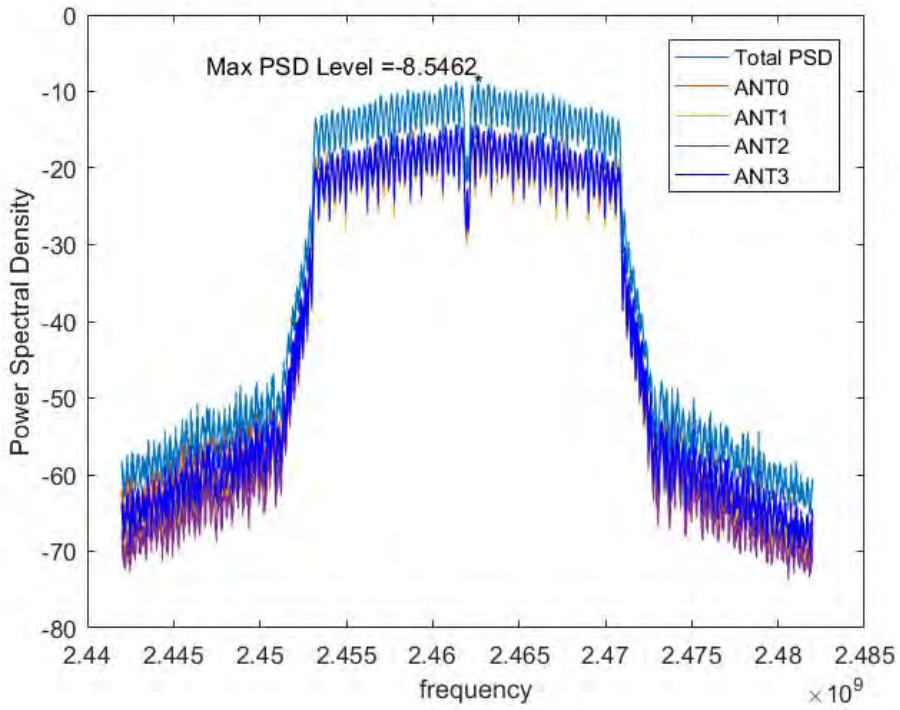
Channel 1 (2412MHz)



Channel 6 (2437MHz)



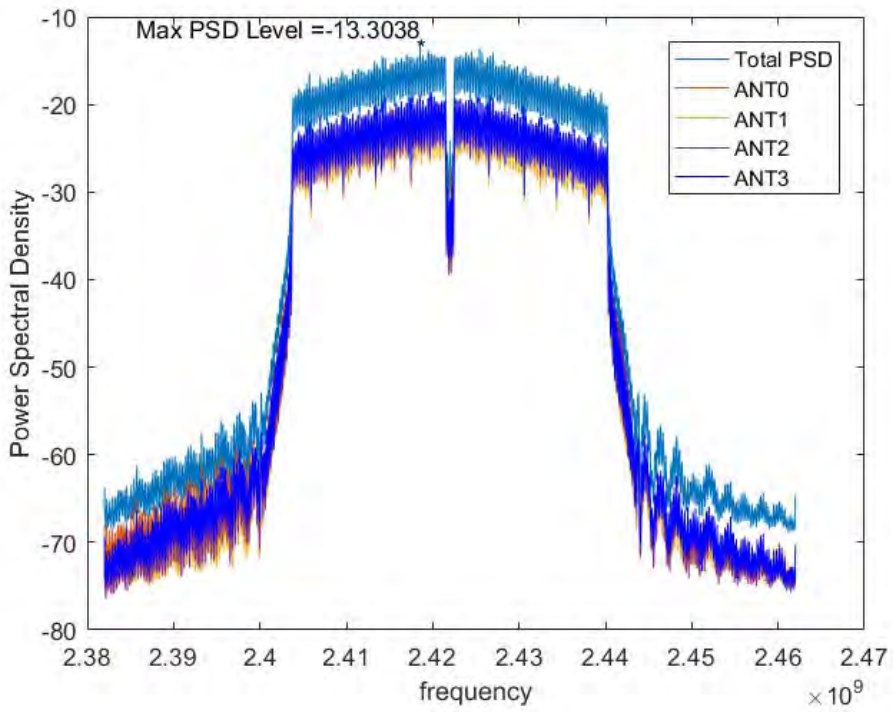
Channel 11 (2462MHz)



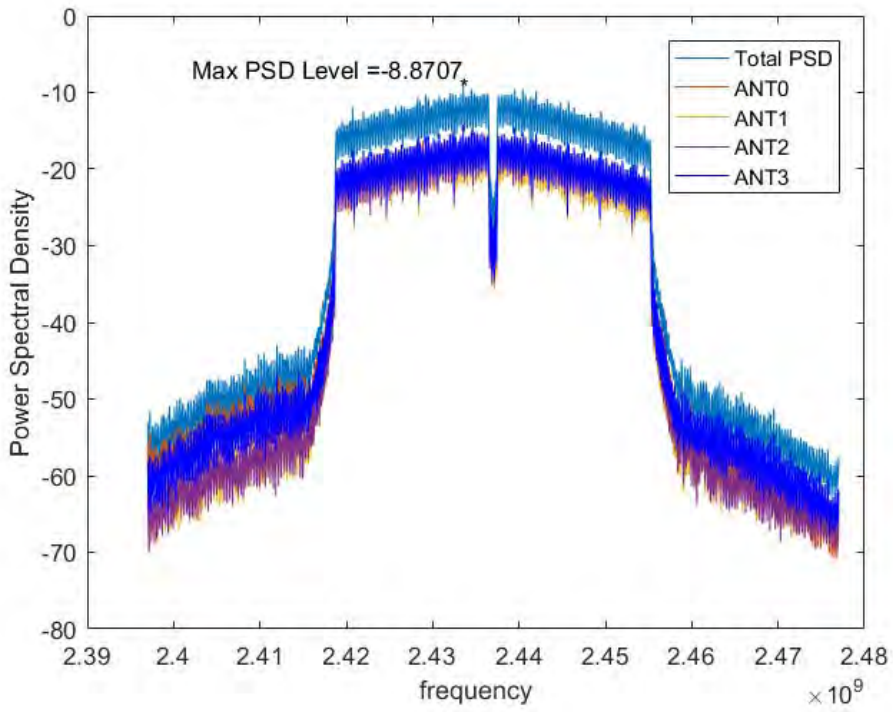
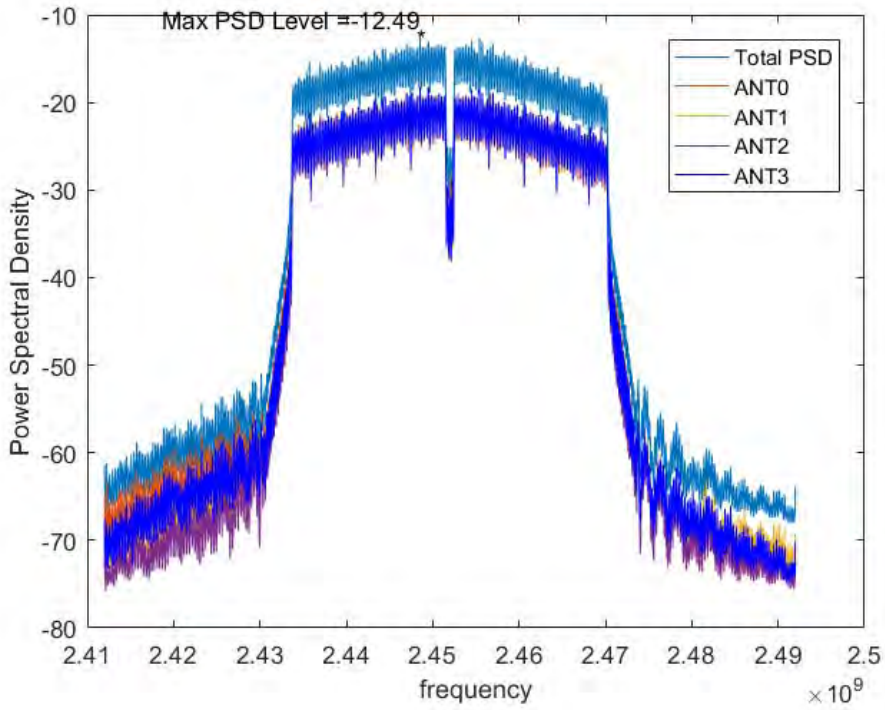
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 40M (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
3	2422	-13.304	≦8	Pass
6	2437	-8.871	≦8	Pass
9	2452	-12.490	≦8	Pass

Channel 3 (2422MHz)



Channel 6 (2437MHz)



Channel 9 (2452MHz)