Appendix A: Test results

Power level setting using in test:

Channel	802.11b		802.11g		802.11n(HT20)		802.11n(HT40)	
	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1
1	38		48		45		45	
6	41		54		54		49	
11	41		54		48		45	

1. Duty Cycle

1.1 Test Data

WLAN Duty Cycle				
Mode	Test Frequency (MHz)	Ant	Duty Cycle (%)	Duty Cycle Factor (dB)
802.11b	2412	Ant0	89.13	0.50
802.11b	2412	Ant1	89.13	0.50
802.11b	2437	Ant0	89.13	0.50
802.11b	2437	Ant1	89.13	0.50
802.11b	2462	Ant0	89.12	0.50
802.11b	2462	Ant1	89.13	0.50
802.11g	2412	Ant0	57.81	2.38
802.11g	2412	Ant1	57.63	2.39
802.11g	2437	Ant0	57.63	2.39
802.11g	2437	Ant1	57.63	2.39
802.11g	2462	Ant0	57.63	2.39
802.11g	2462	Ant1	57.63	2.39
802.11n (HT20)	2412	Ant0	56.14	2.51
802.11n (HT20)	2412	Ant1	56.14	2.51
802.11n (HT20)	2437	Ant0	55.70	2.54
802.11n (HT20)	2437	Ant1	55.70	2.54
802.11n (HT20)	2462	Ant0	55.95	2.52
802.11n (HT20)	2462	Ant1	56.14	2.51
802.11n (HT40)	2422	Ant0	38.65	4.13

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802.11n (HT40)	2422	Ant1	39.02	4.09
802.11n (HT40)	2437	Ant0	39.02	4.09
802.11n (HT40)	2437	Ant1	38.41	4.16
802.11n (HT40)	2452	Ant0	38.41	4.16
802.11n (HT40)	2452	Ant1	38.65	4.13

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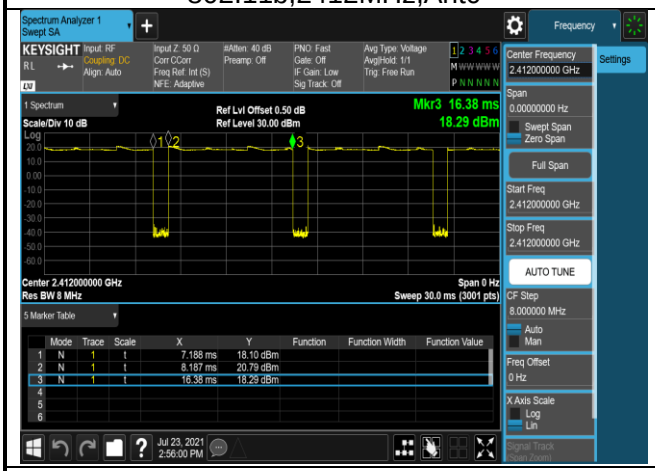
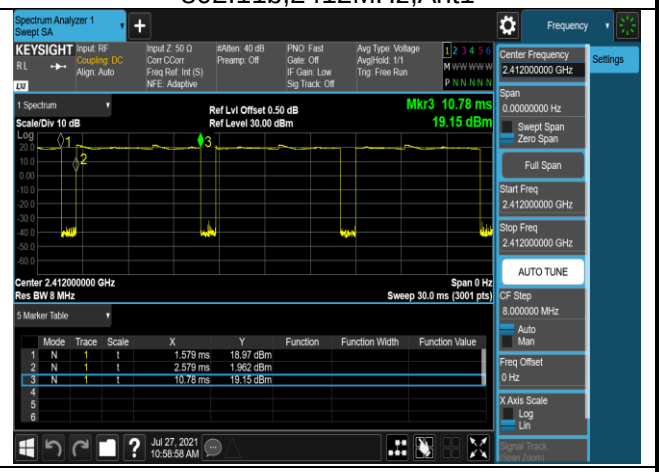
1.2 Test Plots

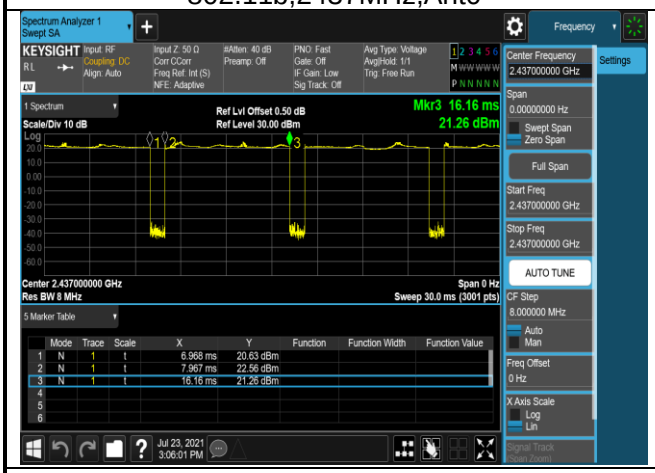
802.11b,2412MHz,Ant0



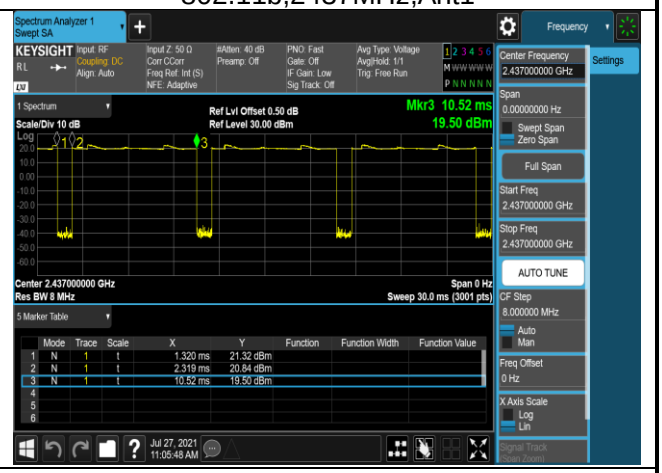
802.11b,2412MHz,Ant1



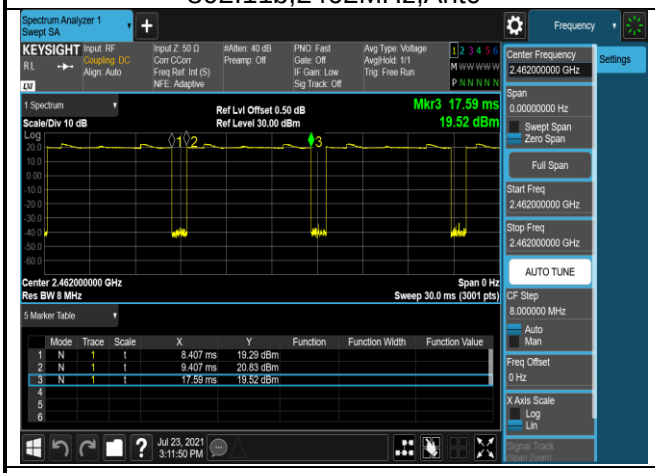
802.11b,2437MHz,Ant0



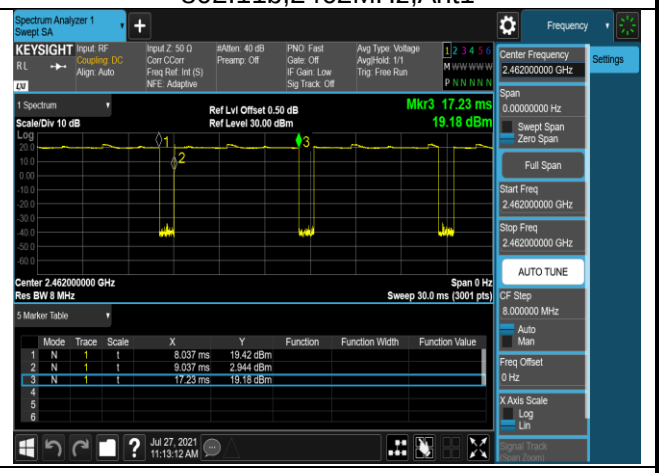
802.11b,2437MHz,Ant1



802.11b,2462MHz,Ant0



802.11b,2462MHz,Ant1



802.11g,2412MHz,Ant0

802.11g,2412MHz,Ant1

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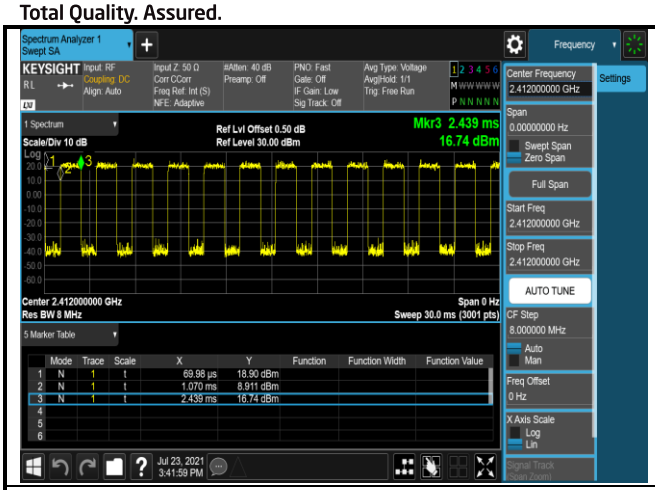
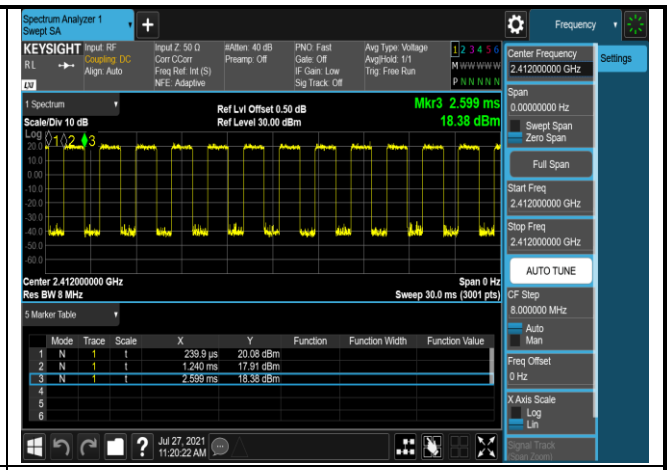
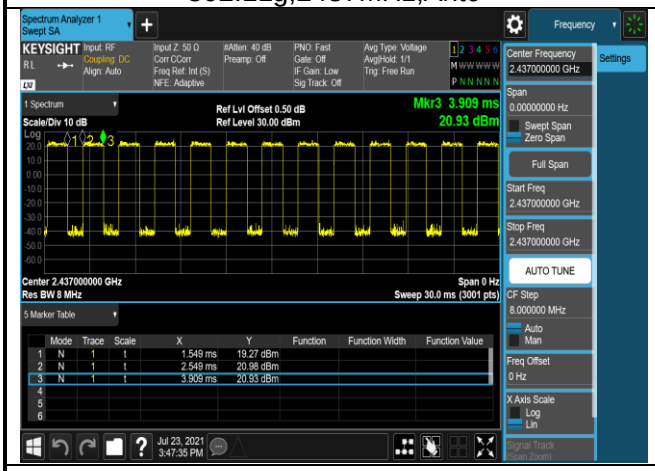


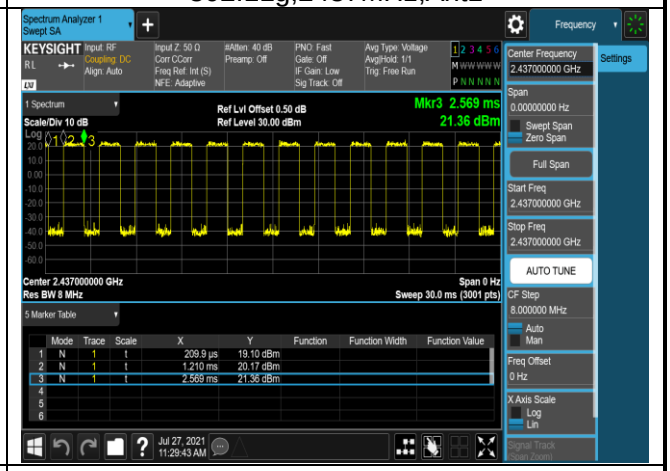
802.11g,2437MHz,Ant0



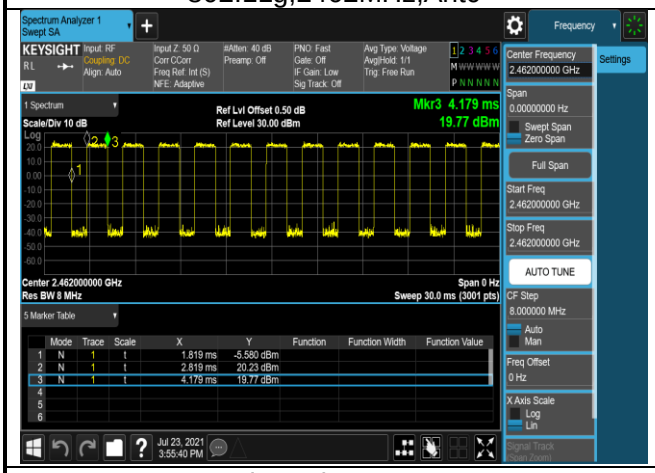
802.11g,2437MHz,Ant1



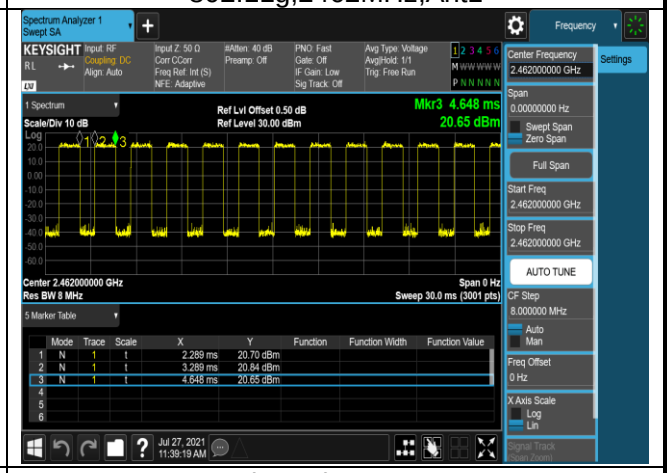
802.11g,2462MHz,Ant0



802.11g,2462MHz,Ant1



802.11n(HT20),2412MHz,Ant0



802.11n(HT20),2412MHz,Ant1

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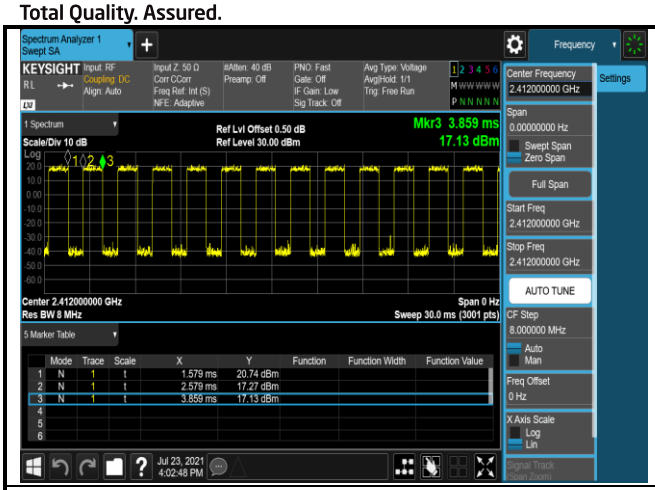
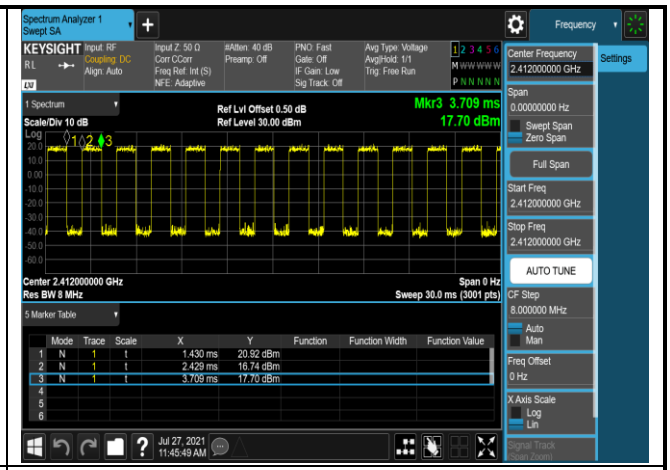
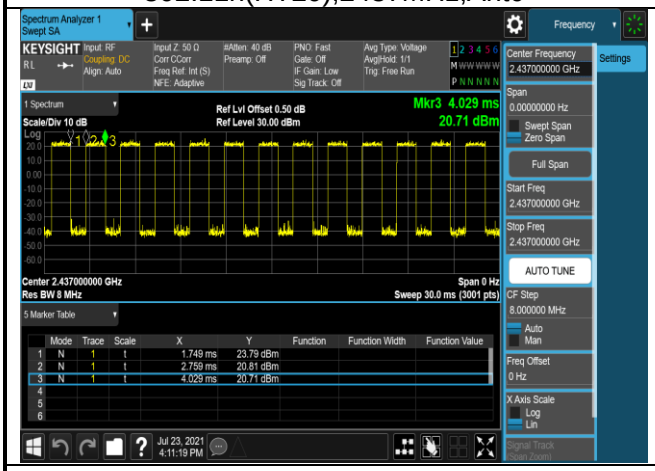


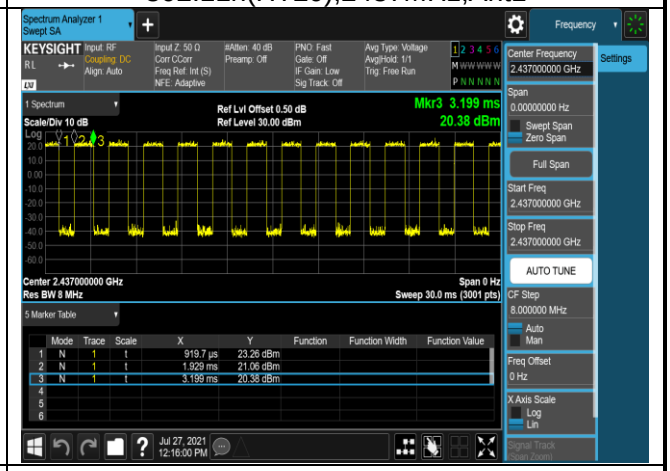
802.11n(HT20),2437MHz,Ant0



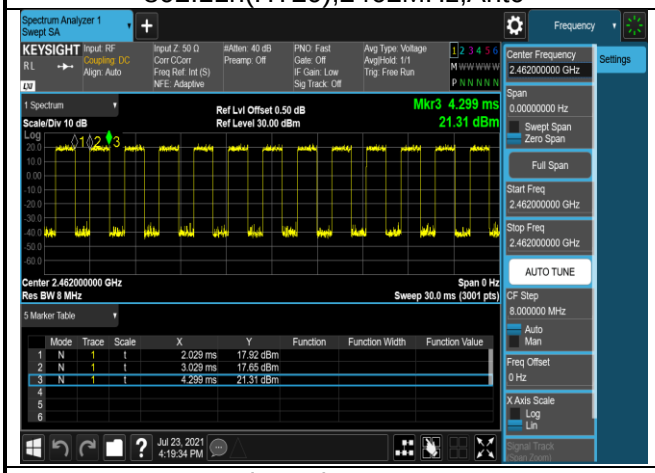
802.11n(HT20),2437MHz,Ant1



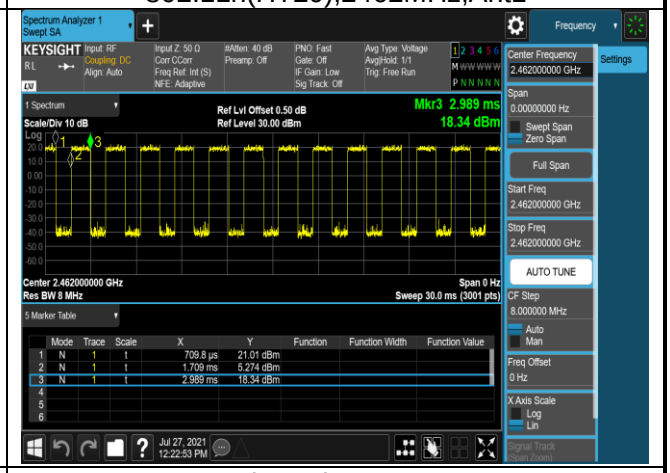
802.11n(HT20),2462MHz,Ant0



802.11n(HT20),2462MHz,Ant1



802.11n(HT40),2422MHz,Ant0



802.11n(HT40),2422MHz,Ant1

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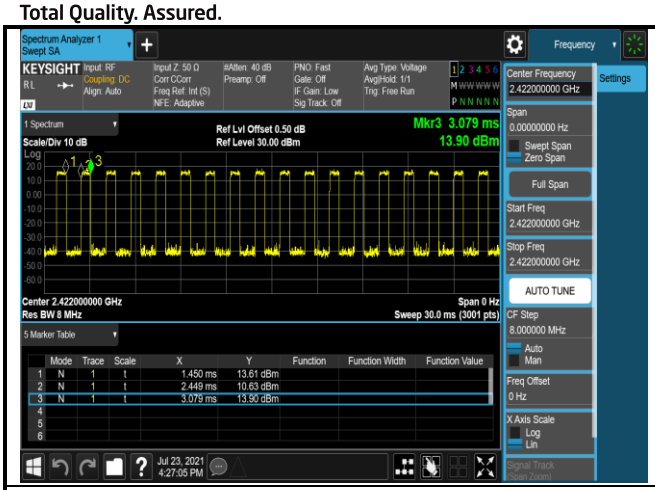
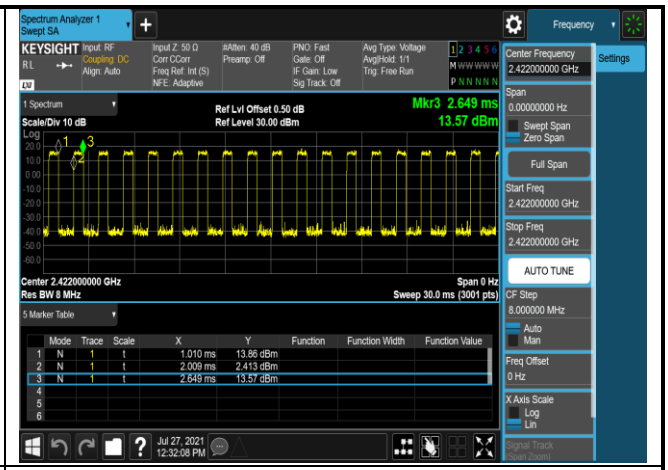
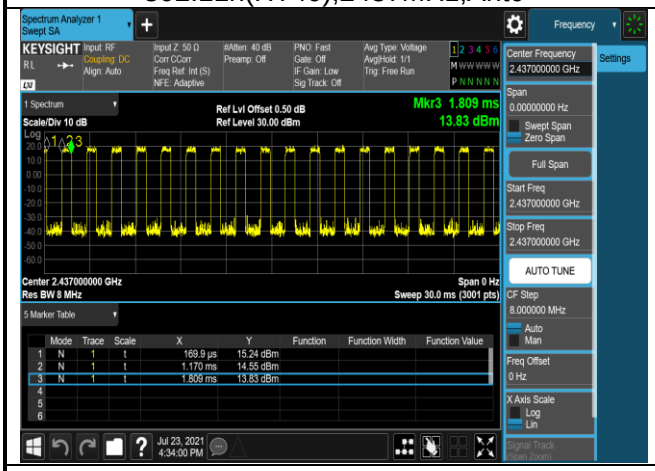


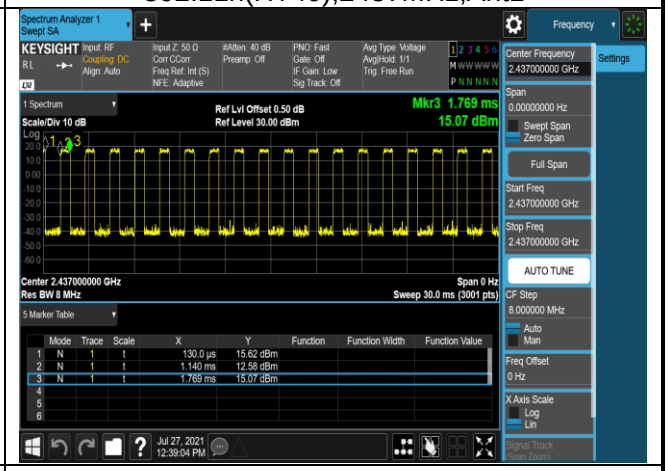
802.11n(HT40),2437MHz,Ant0



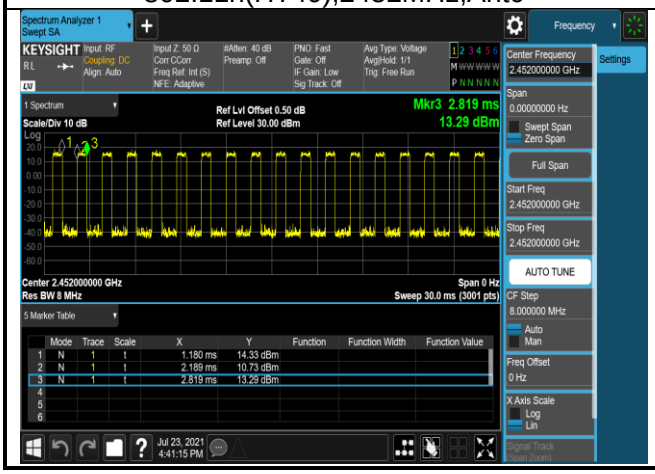
802.11n(HT40),2437MHz,Ant1

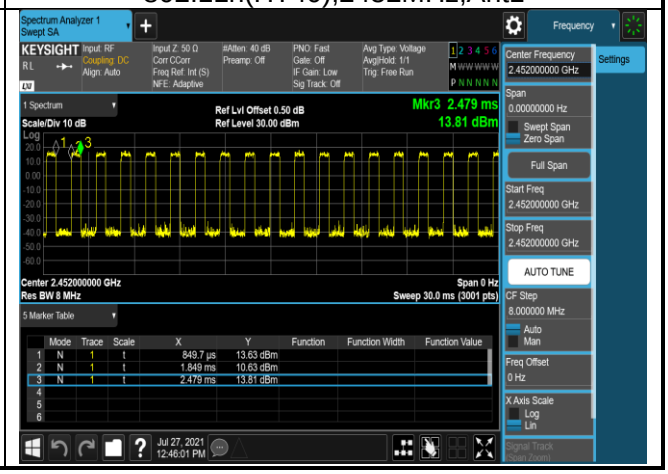


802.11n(HT40),2452MHz,Ant0



802.11n(HT40),2452MHz,Ant1





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2. Minimum 6dB bandwidth

2.1 Test Data

WLAN Occupied 6dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	10.10	Pass
802.11b	2412	Ant1	10.11	Pass
802.11b	2437	Ant0	10.11	Pass
802.11b	2437	Ant1	10.11	Pass
802.11b	2462	Ant0	10.11	Pass
802.11b	2462	Ant1	10.11	Pass
802.11g	2412	Ant0	16.33	Pass
802.11g	2412	Ant1	16.33	Pass
802.11g	2437	Ant0	16.32	Pass
802.11g	2437	Ant1	16.32	Pass
802.11g	2462	Ant0	16.32	Pass
802.11g	2462	Ant1	16.33	Pass
802.11n (HT20)	2412	Ant0	16.96	Pass
802.11n (HT20)	2412	Ant1	16.95	Pass
802.11n (HT20)	2437	Ant0	16.79	Pass
802.11n (HT20)	2437	Ant1	16.59	Pass
802.11n (HT20)	2462	Ant0	16.96	Pass
802.11n (HT20)	2462	Ant1	16.95	Pass
802.11n (HT40)	2422	Ant0	35.26	Pass
802.11n (HT40)	2422	Ant1	35.50	Pass
802.11n (HT40)	2437	Ant0	35.26	Pass
802.11n (HT40)	2437	Ant1	35.26	Pass
802.11n (HT40)	2452	Ant0	35.26	Pass
802.11n (HT40)	2452	Ant1	35.36	Pass

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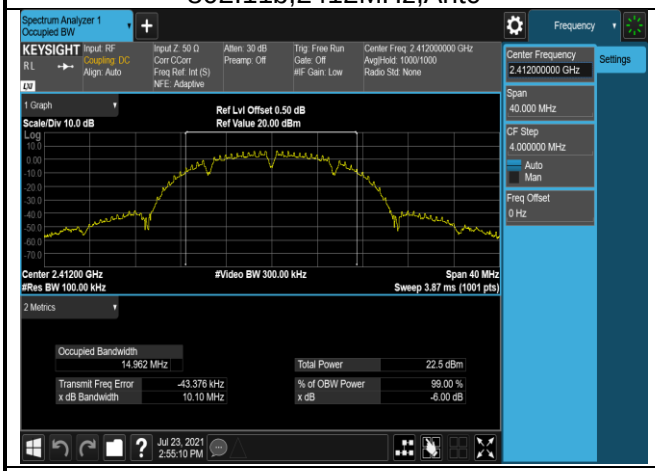
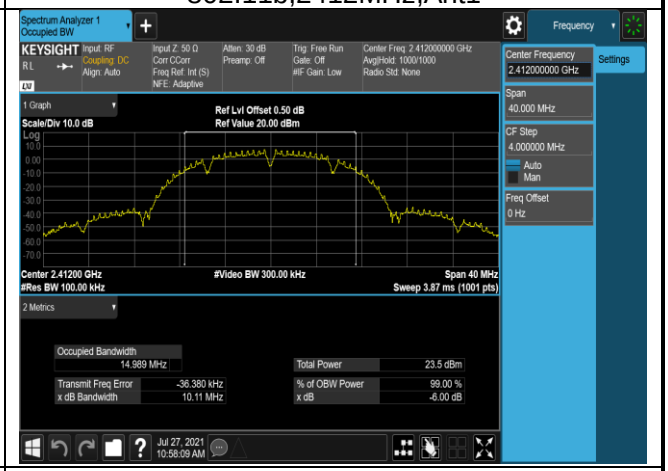
2.2 Test Plots

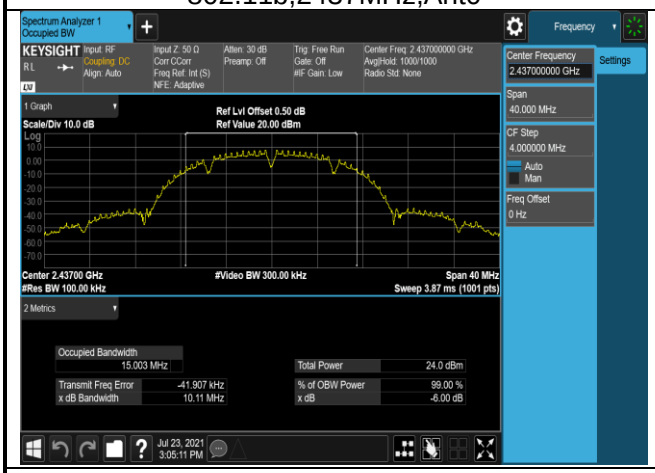
802.11b,2412MHz,Ant0



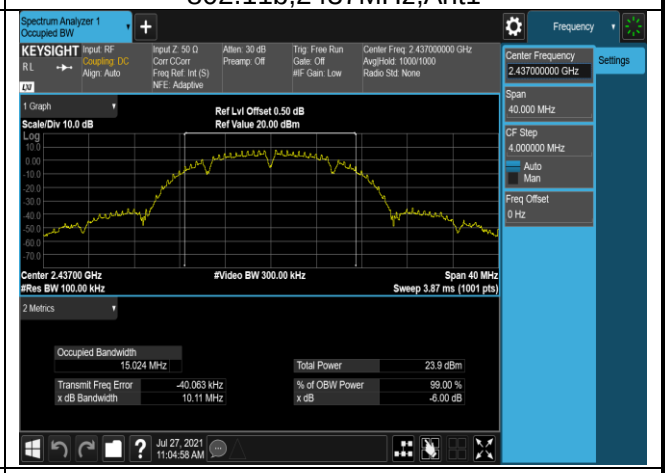
802.11b,2412MHz,Ant1



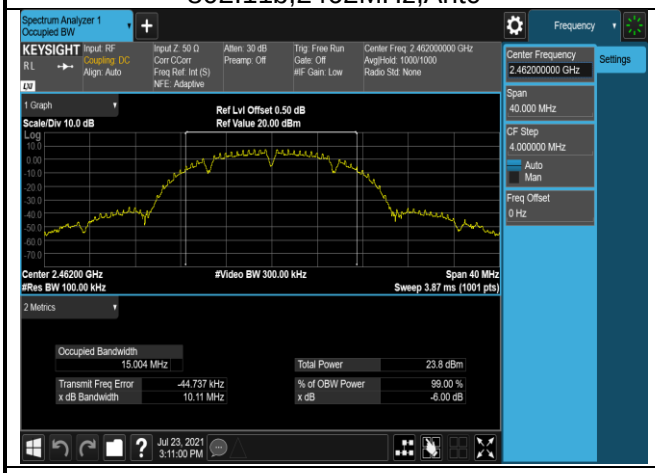
802.11b,2437MHz,Ant0



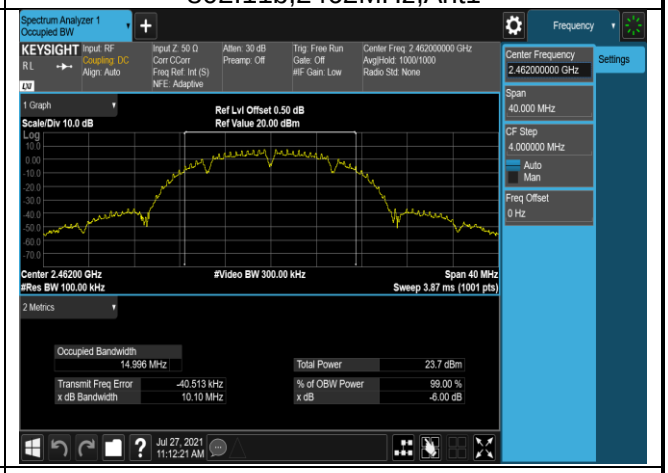
802.11b,2437MHz,Ant1



802.11b,2462MHz,Ant0



802.11b,2462MHz,Ant1



802.11g,2412MHz,Ant0

802.11g,2412MHz,Ant1

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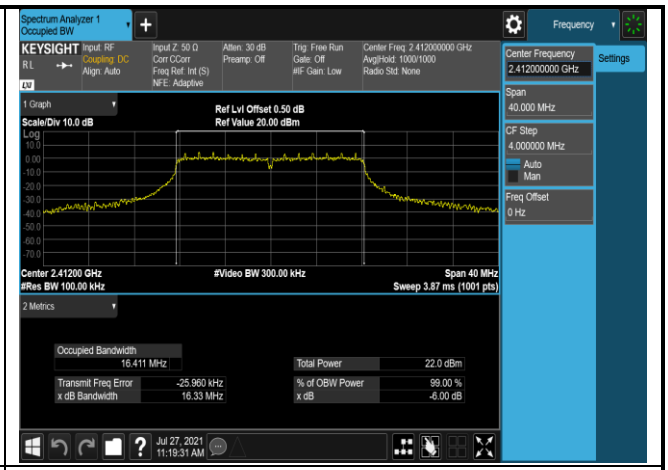
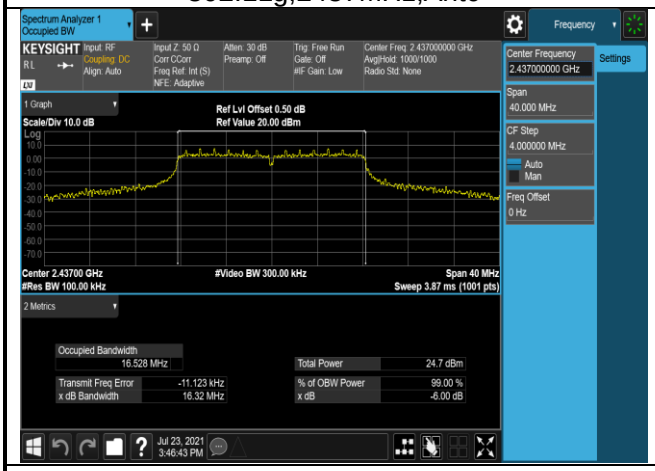
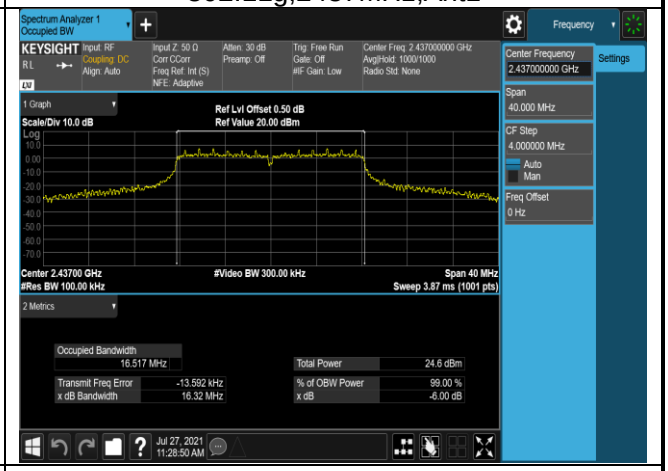
802.11g,2437MHz,Ant0



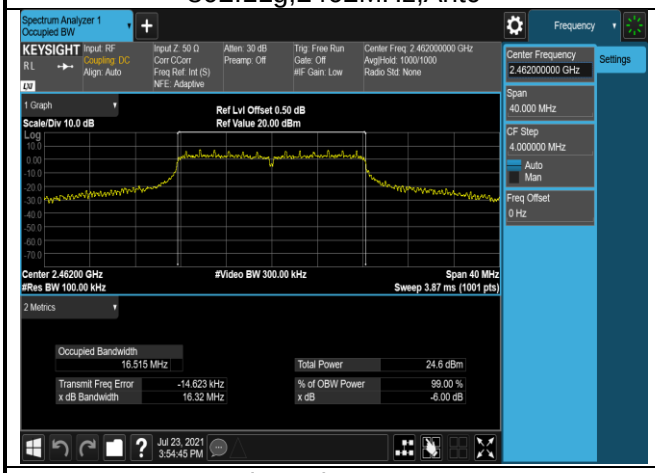
802.11g,2437MHz,Ant1



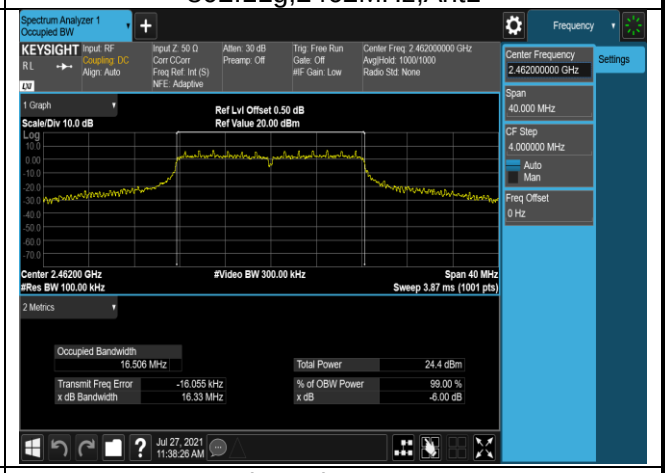
802.11g,2462MHz,Ant0



802.11g,2462MHz,Ant1



802.11n(HT20),2412MHz,Ant0



802.11n(HT20),2412MHz,Ant1

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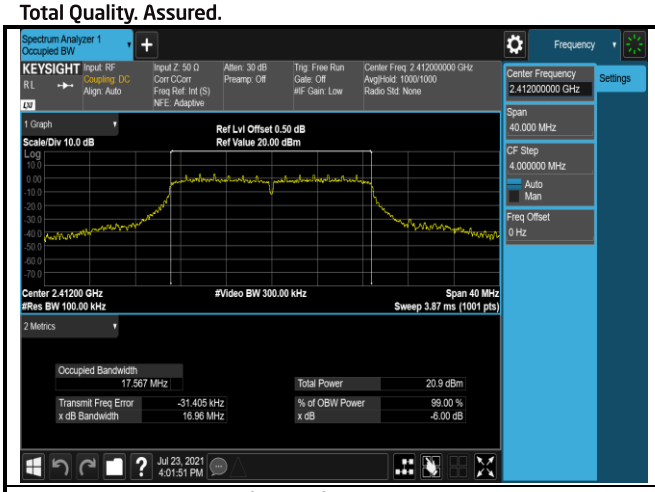
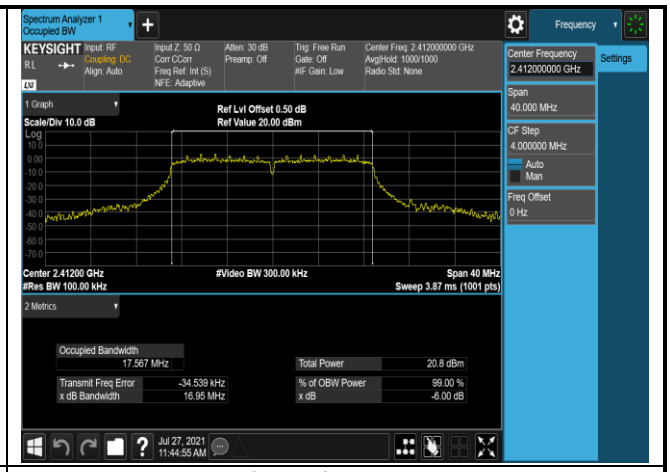
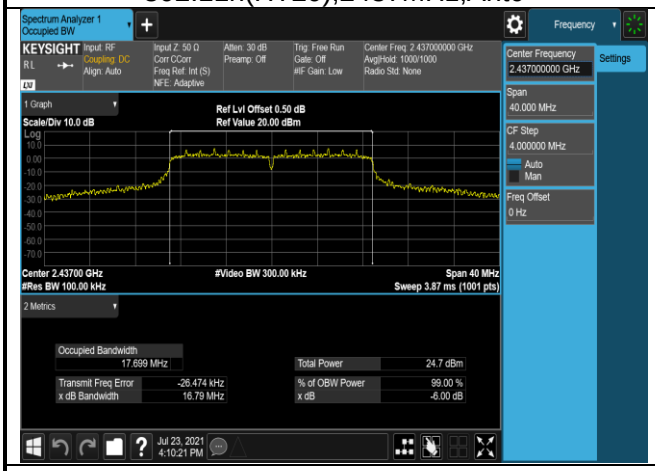


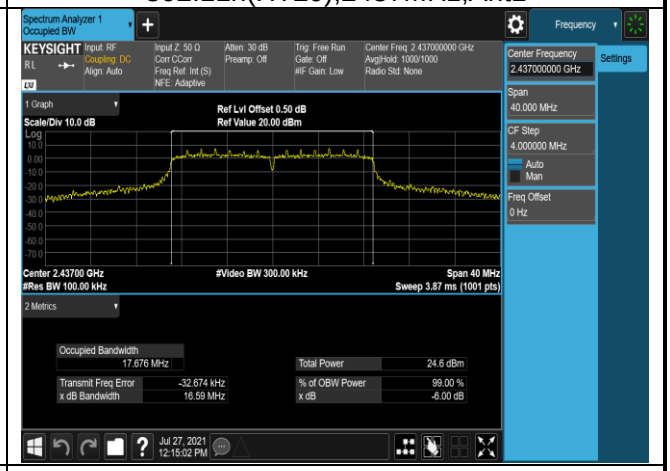
802.11n(HT20),2437MHz,Ant0



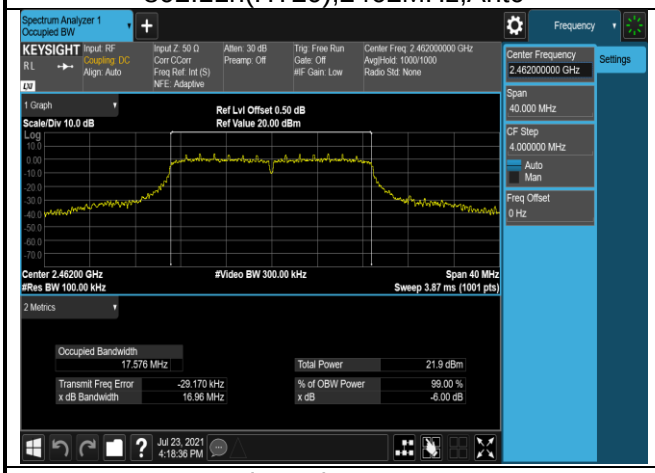
802.11n(HT20),2437MHz,Ant1



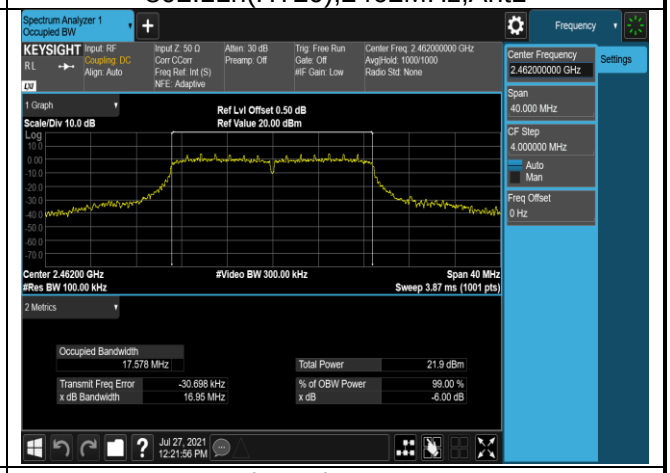
802.11n(HT20),2462MHz,Ant0



802.11n(HT20),2462MHz,Ant1



802.11n(HT40),2422MHz,Ant0



802.11n(HT40),2422MHz,Ant1

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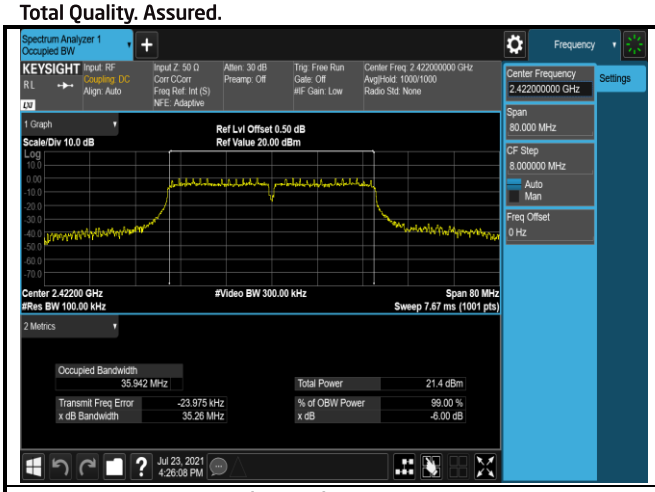
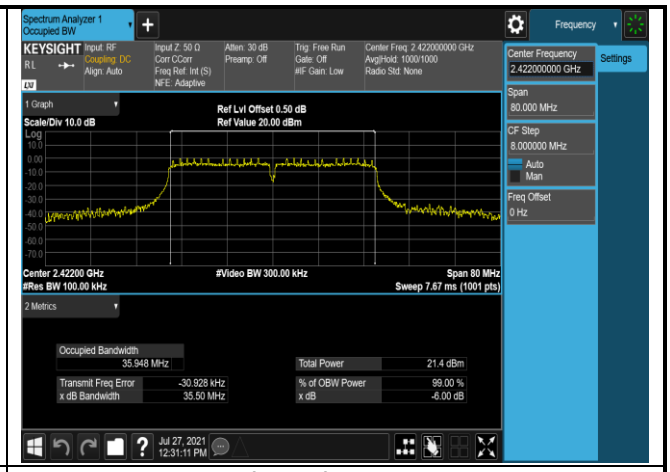
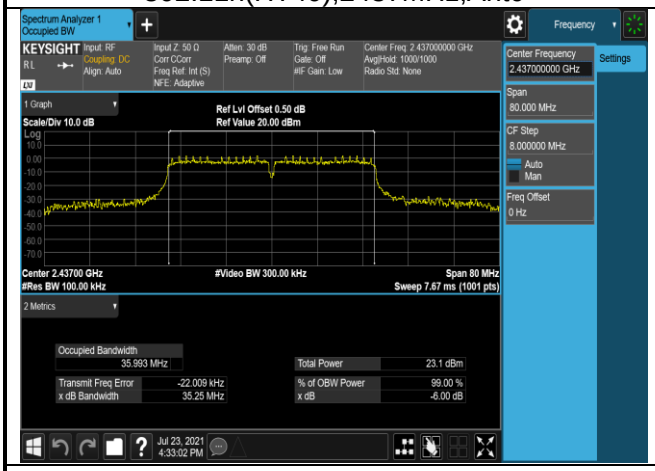


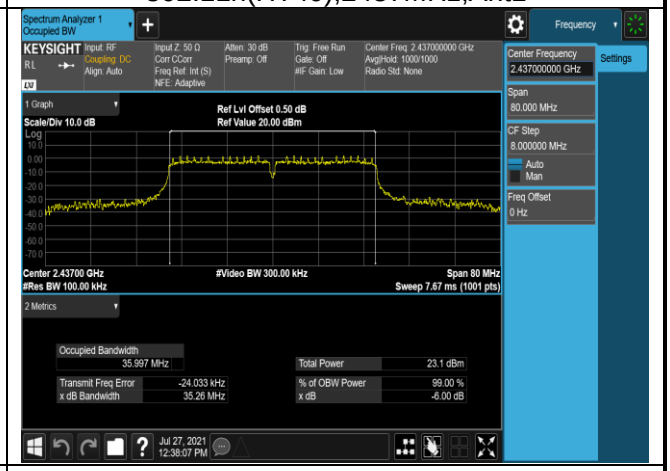
802.11n(HT40),2437MHz,Ant0



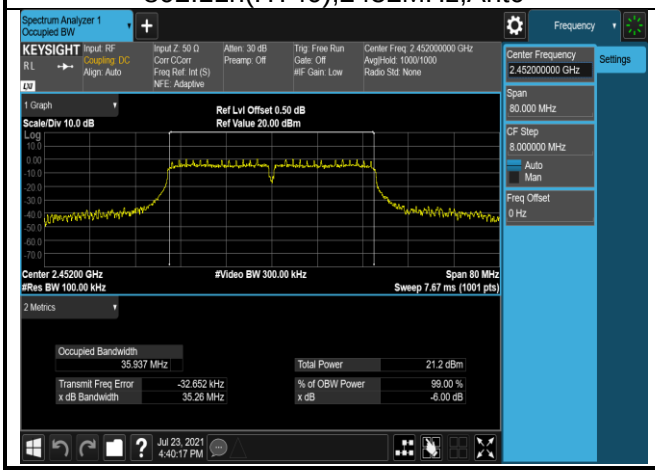
802.11n(HT40),2437MHz,Ant1



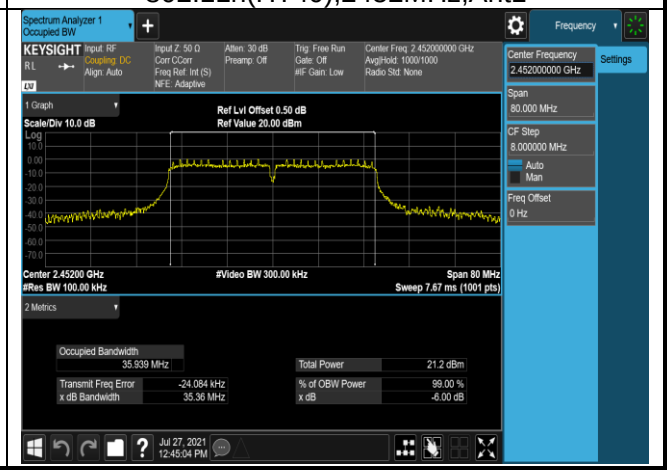
802.11n(HT40),2437MHz,Ant0



802.11n(HT40),2452MHz,Ant1



802.11n(HT40),2452MHz,Ant0



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3. Occupied Bandwidth

3.1 Test Data

WLAN 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	14.988	Pass
802.11b	2412	Ant1	15.016	Pass
802.11b	2437	Ant0	15.039	Pass
802.11b	2437	Ant1	15.041	Pass
802.11b	2462	Ant0	15.022	Pass
802.11b	2462	Ant1	15.015	Pass
802.11g	2412	Ant0	16.762	Pass
802.11g	2412	Ant1	16.735	Pass
802.11g	2437	Ant0	16.968	Pass
802.11g	2437	Ant1	16.948	Pass
802.11g	2462	Ant0	16.947	Pass
802.11g	2462	Ant1	16.930	Pass
802.11n (HT20)	2412	Ant0	17.738	Pass
802.11n (HT20)	2412	Ant1	17.736	Pass
802.11n (HT20)	2437	Ant0	18.022	Pass
802.11n (HT20)	2437	Ant1	17.989	Pass
802.11n (HT20)	2462	Ant0	17.791	Pass
802.11n (HT20)	2462	Ant1	17.752	Pass
802.11n (HT40)	2422	Ant0	36.815	Pass
802.11n (HT40)	2422	Ant1	36.801	Pass
802.11n (HT40)	2437	Ant0	36.932	Pass
802.11n (HT40)	2437	Ant1	36.883	Pass
802.11n (HT40)	2452	Ant0	36.798	Pass
802.11n (HT40)	2452	Ant1	36.730	Pass

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3.2 Test Plots

802.11b,2412MHz,Ant0

802.11b,2412MHz,Ant1

802.11b,2437MHz,Ant0

802.11b,2437MHz,Ant1

802.11b,2462MHz,Ant0

802.11b,2462MHz,Ant1

802.11g,2412MHz,Ant0

802.11g,2412MHz,Ant1

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