Table of Contents

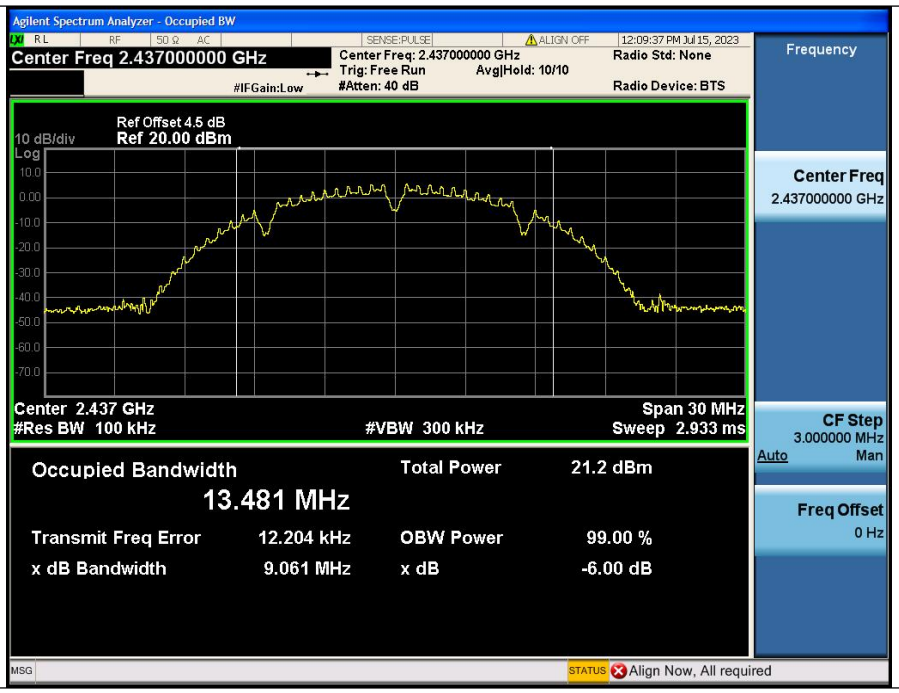
1. -6dB Bandwidth 1
2. Bandedge 8
3. MAX. Output Power 16
4. Power Spectral Density 23
5. Spurious Emission 30

1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.03	500	Pass
NVNT	ANT1	802.11b	2437.00	9.06	500	Pass
NVNT	ANT1	802.11b	2462.00	8.60	500	Pass
NVNT	ANT1	802.11g	2412.00	16.38	500	Pass
NVNT	ANT1	802.11g	2437.00	16.38	500	Pass
NVNT	ANT1	802.11g	2462.00	16.37	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.56	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.58	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.58	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.75	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.75	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.02	500	Pass

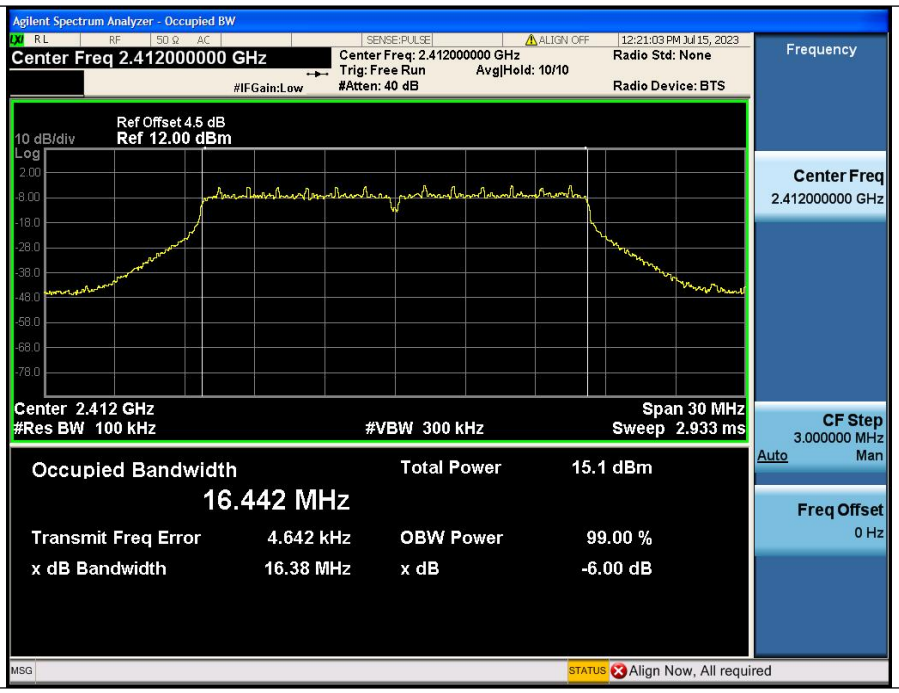
-6dB_Bandwidth_NVNT_ANT1_802_11b_2412

-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

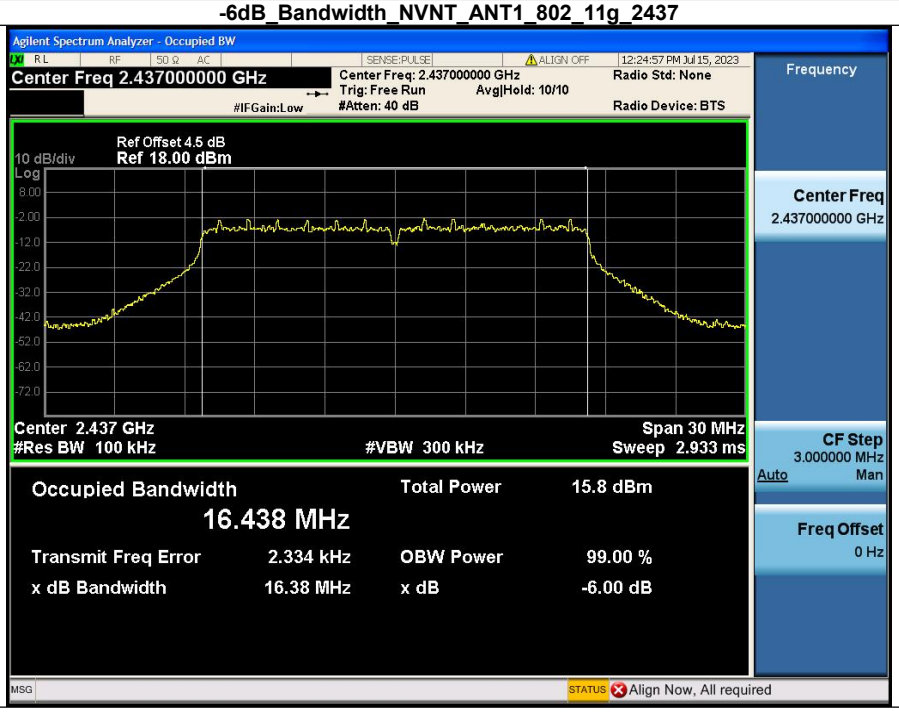


-6dB_Bandwidth_NVNT_ANT1_802_11b_2462

-6dB_Bandwidth_NVNT_ANT1_802_11g_2412

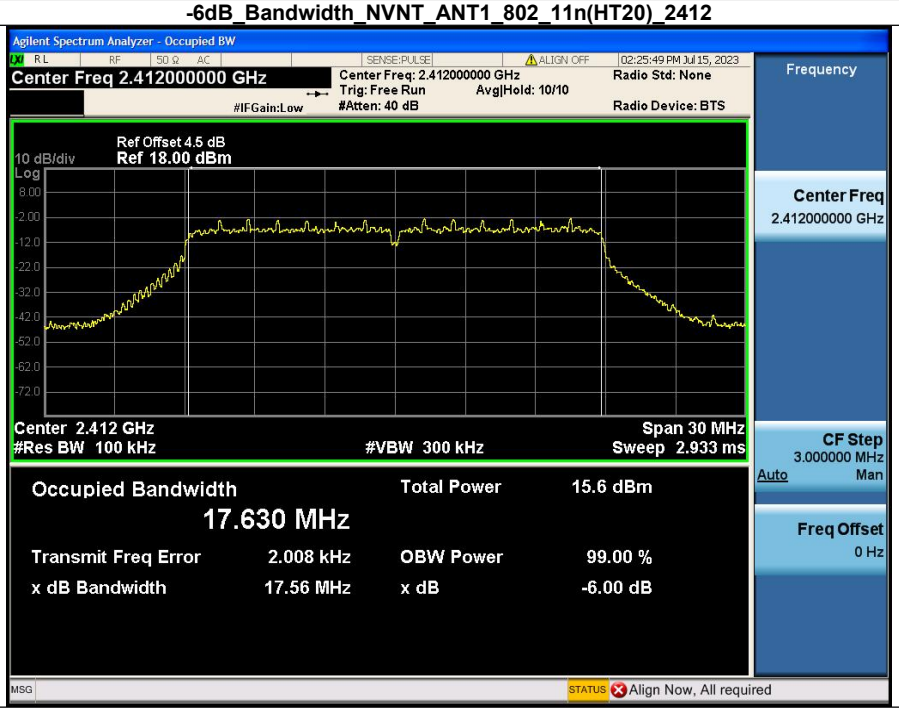


-6dB_Bandwidth_NVNT_ANT1_802_11g_2437

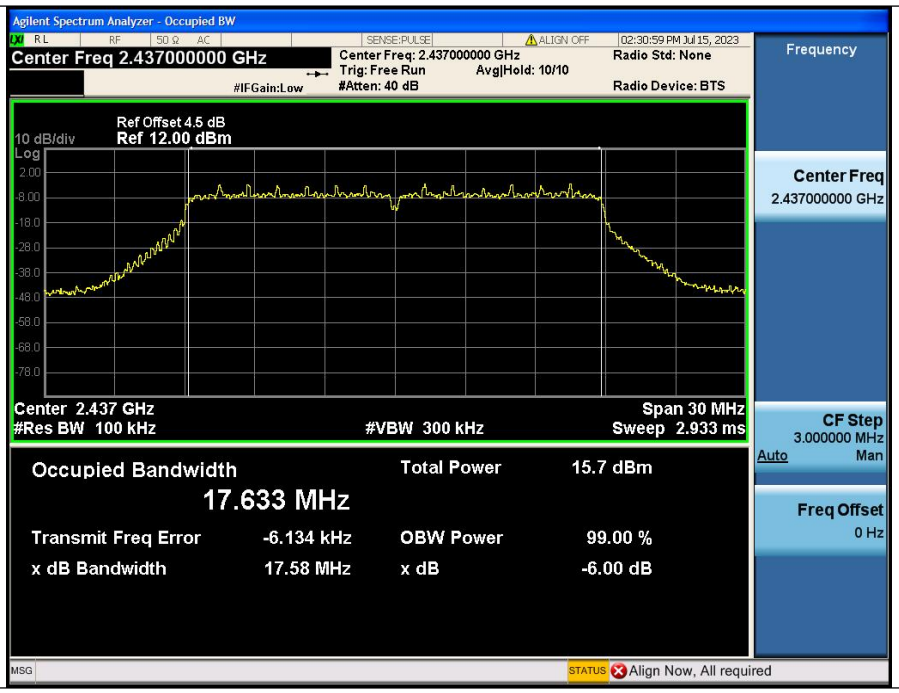


-6dB_Bandwidth_NVNT_ANT1_802_11g_2462

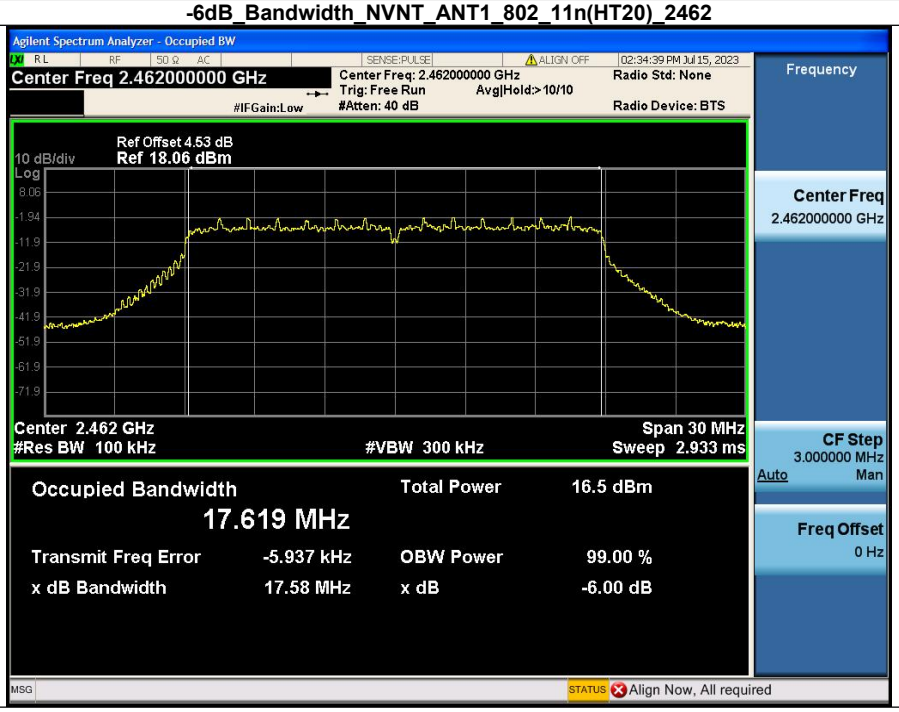
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



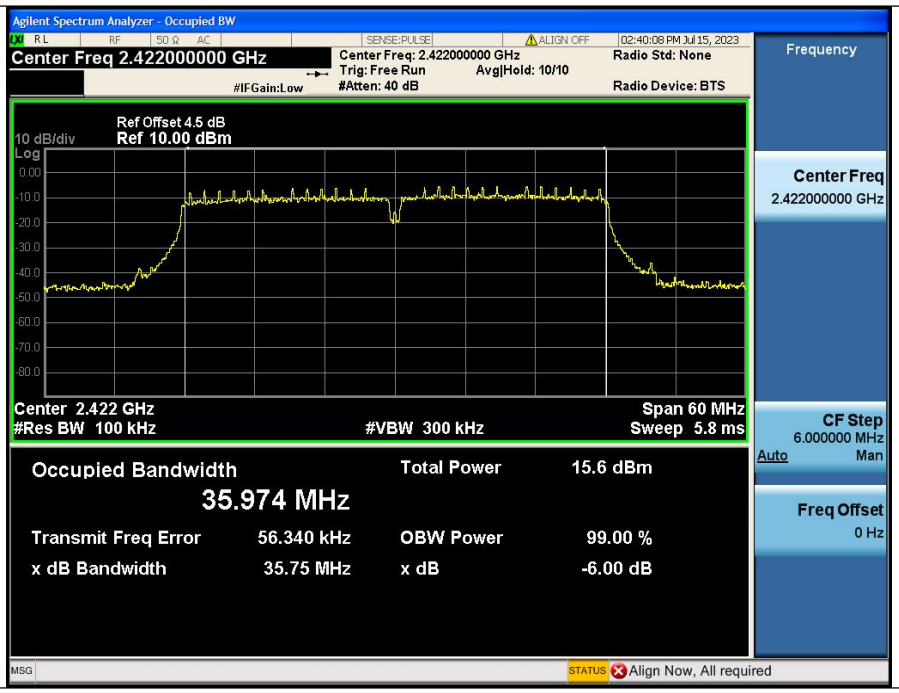
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



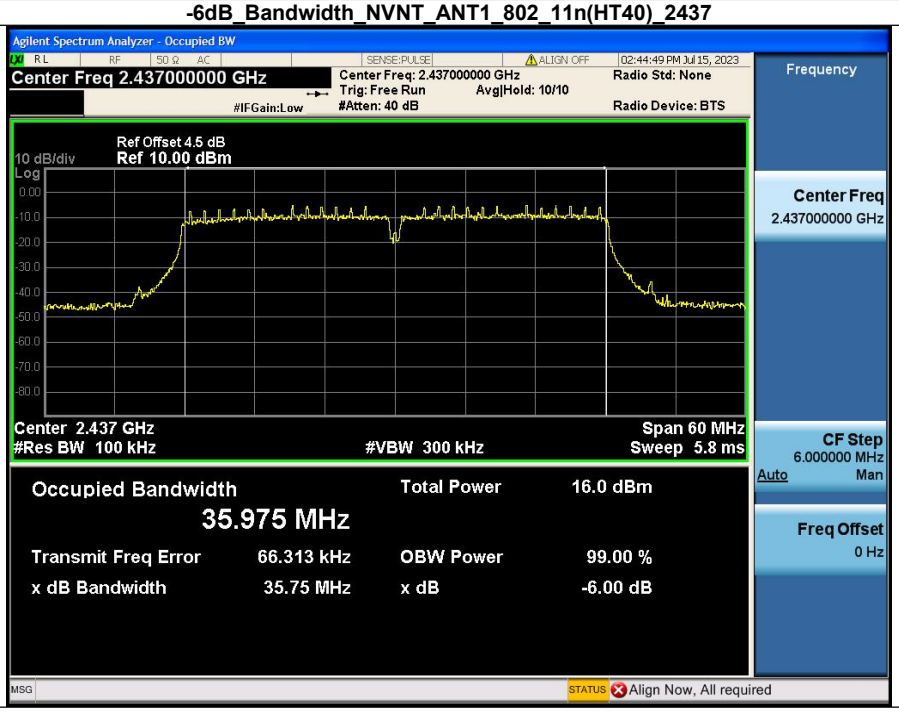
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



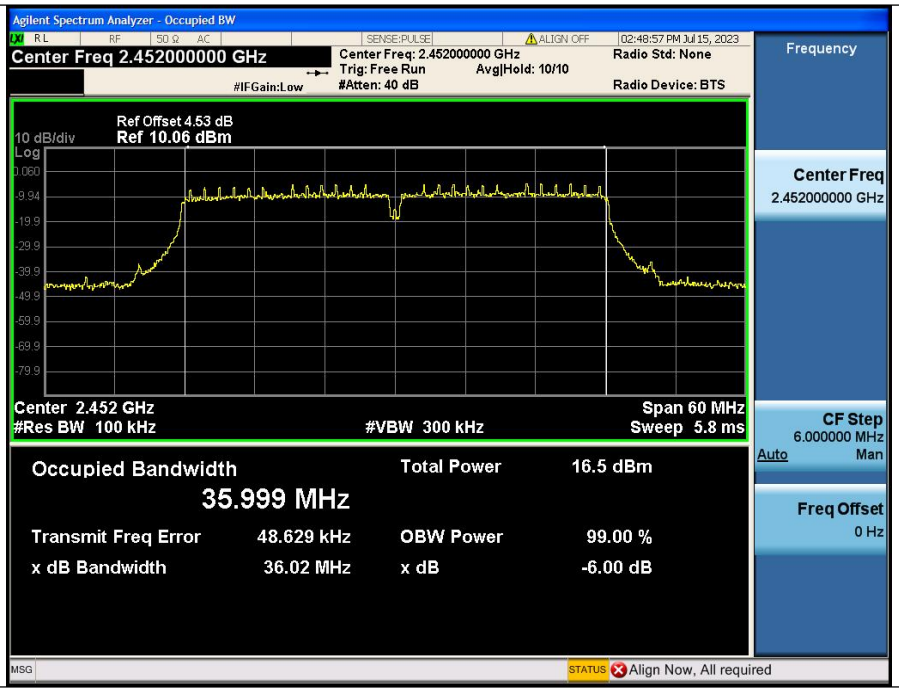
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



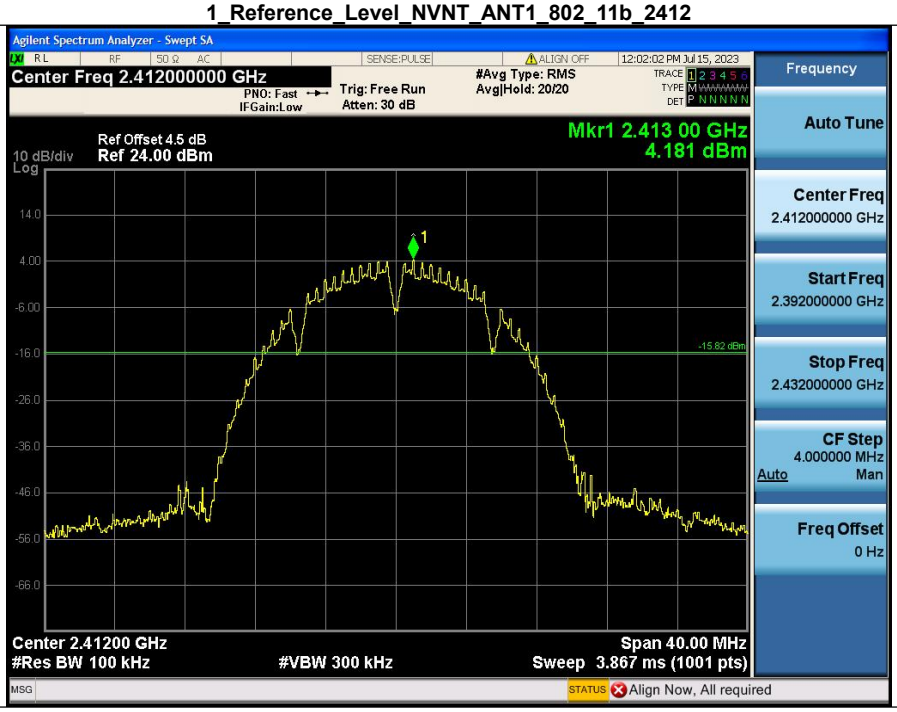
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.452000000 GHz
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 40 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
02:48:57 PM Jul 15, 2023
Frequency
Ref Offset 4.53 dB
10 dB/div
Ref 10.06 dBm
Log
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 60 MHz
Sweep 5.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
35.999 MHz
Total Power 16.5 dBm
Transmit Freq Error 48.629 kHz
OBW Power 99.00 %
x dB Bandwidth 36.02 MHz
x dB -6.00 dB
Freq Offset
0 Hz
MSG
STATUS
Align Now, All required

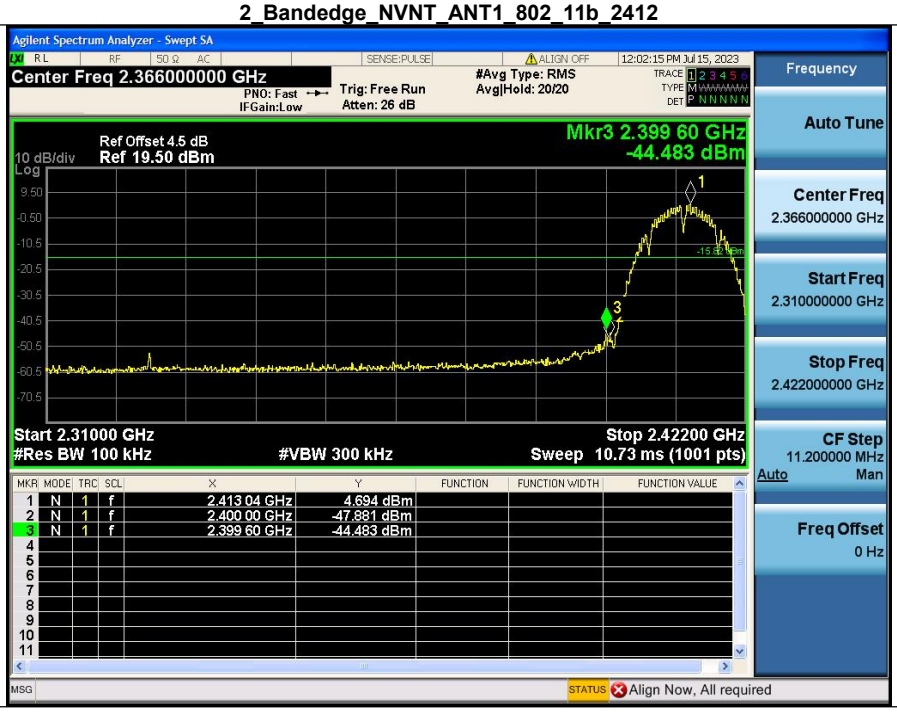
2. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.600	-44.483	-15.819	Pass
NVNT	ANT1	802.11b	2462.00	2486.128	-54.761	-13.511	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	-43.670	-22.934	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	-54.821	-21.652	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-42.075	-22.585	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.496	-54.955	-21.371	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.892	-44.037	-25.431	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.612	-50.881	-24.467	Pass

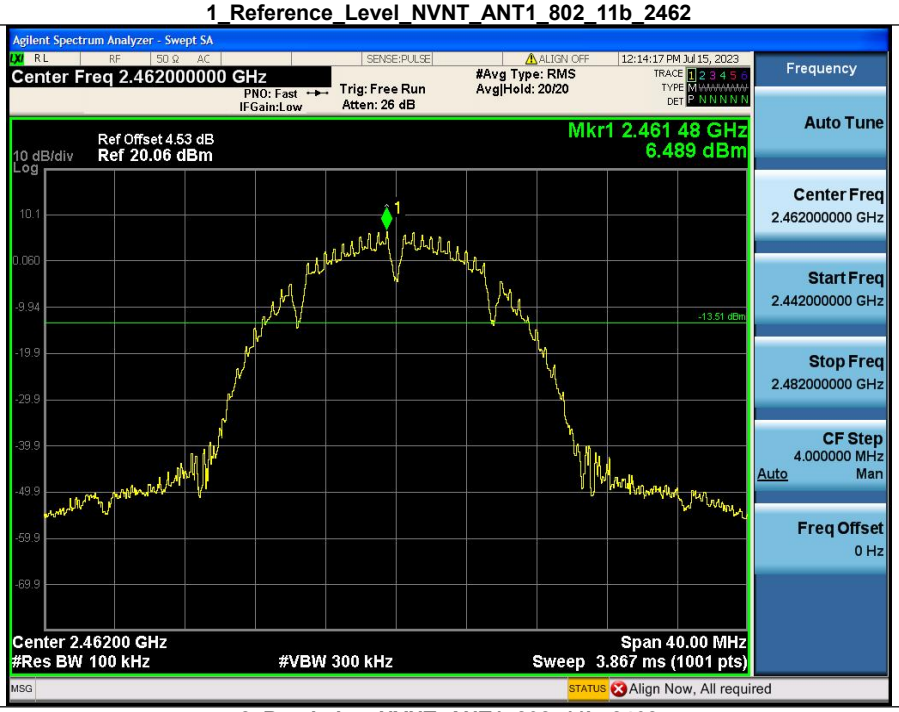
1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



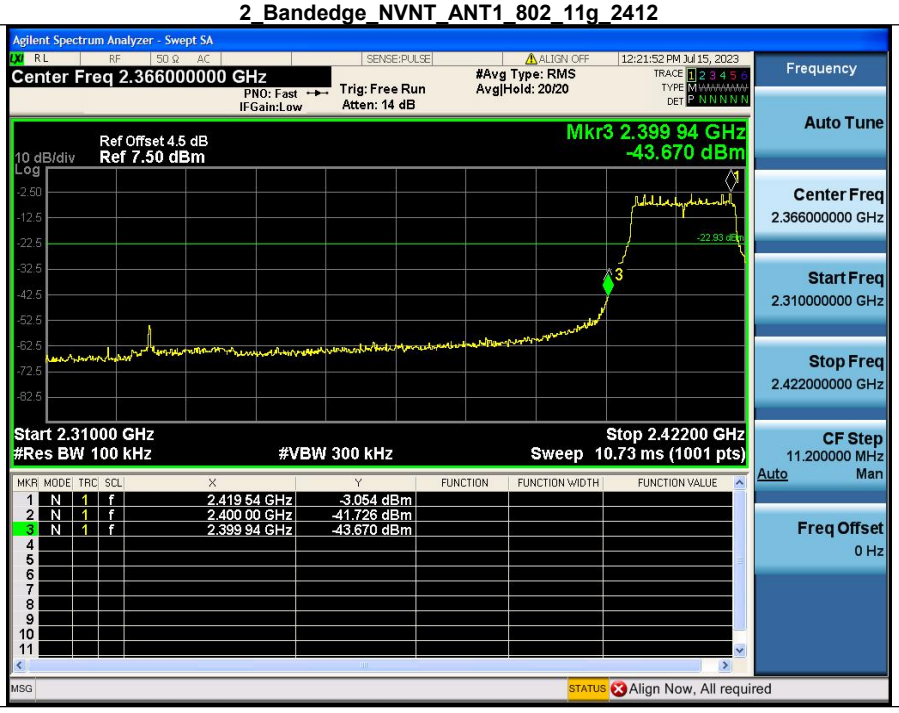
1_Reference_Level_NVNT_ANT1_802_11b_2462



2_Bandedge_NVNT_ANT1_802_11b_2462

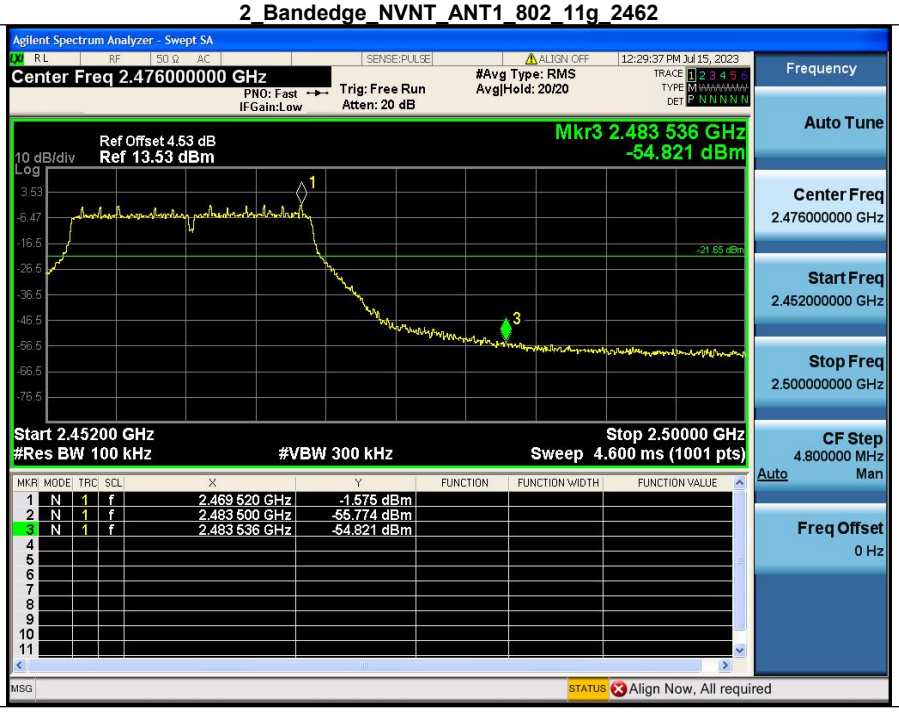
1_Reference_Level_NVNT_ANT1_802_11g_2412

2_Bandedge_NVNT_ANT1_802_11g_2412

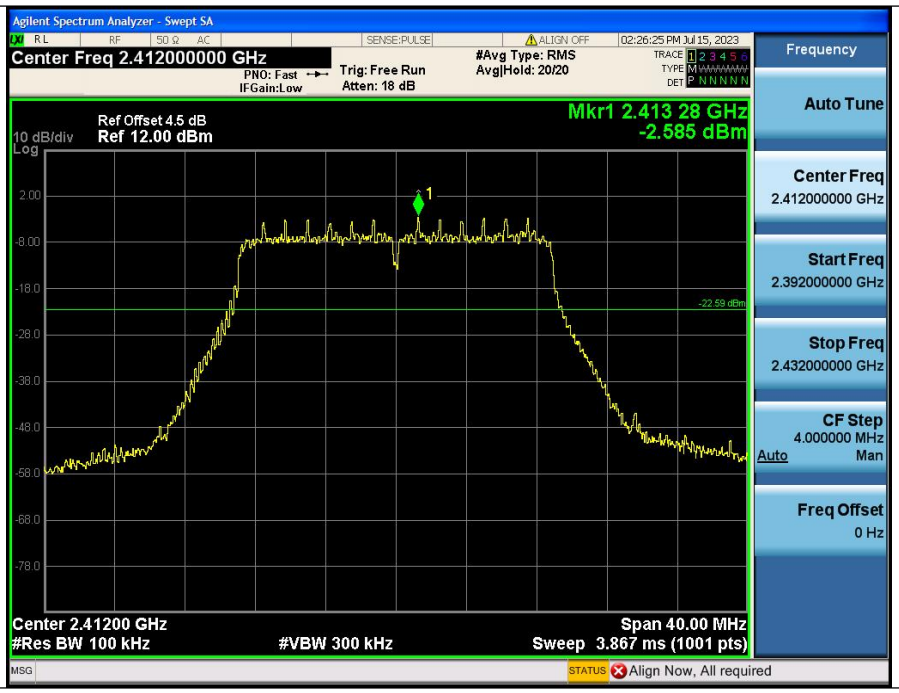


1_Reference_Level_NVNT_ANT1_802_11g_2462

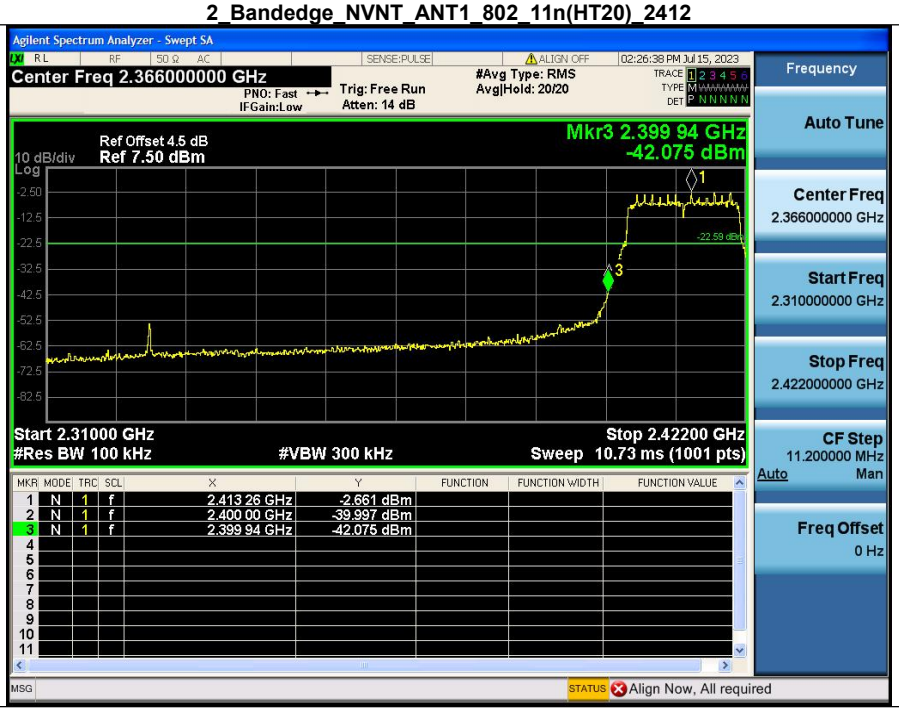
2_Bandedge_NVNT_ANT1_802_11g_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462

1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422

2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422

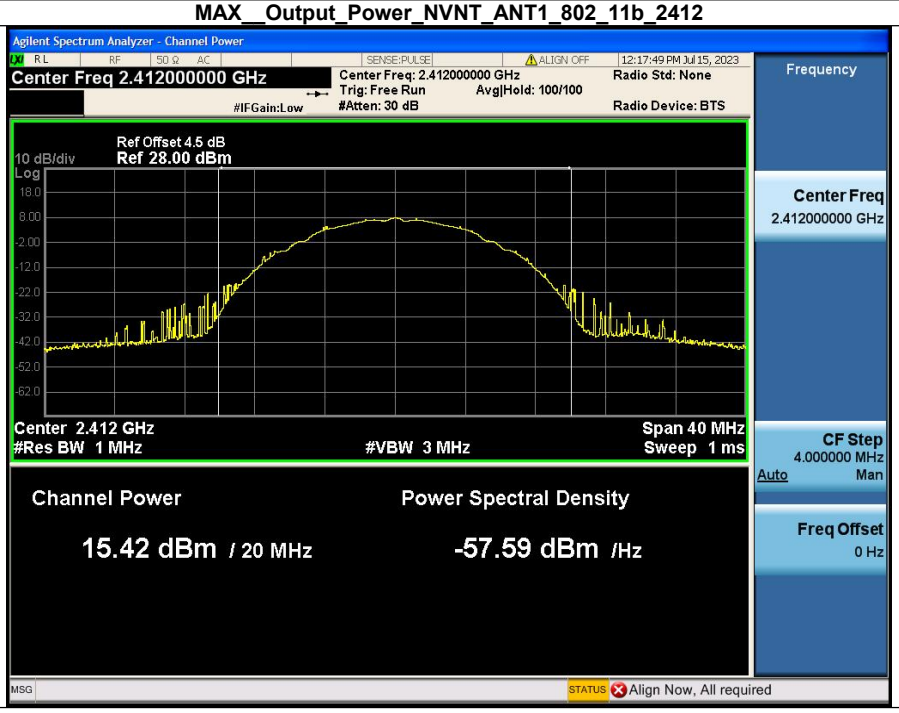
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452

2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452

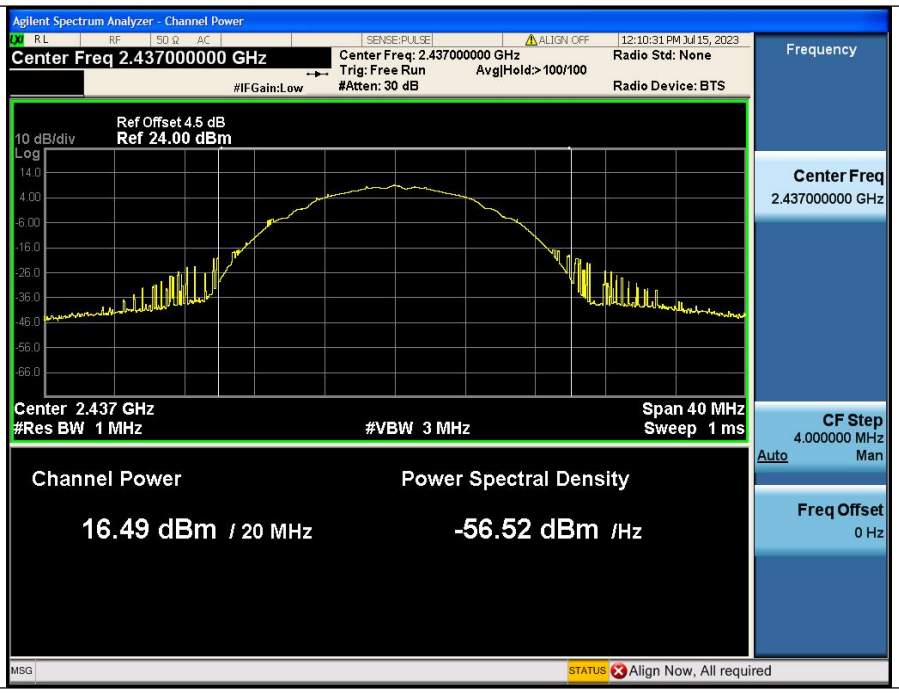
3. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	15.42	N/A	15.42	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	16.49	N/A	16.49	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	17.28	N/A	17.28	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	15.34	N/A	15.34	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	16.27	N/A	16.27	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	17.10	N/A	17.10	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	15.64	N/A	15.64	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	16.27	N/A	16.27	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	16.97	N/A	16.97	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	15.73	N/A	15.73	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	16.30	N/A	16.30	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	16.81	N/A	16.81	30	Pass

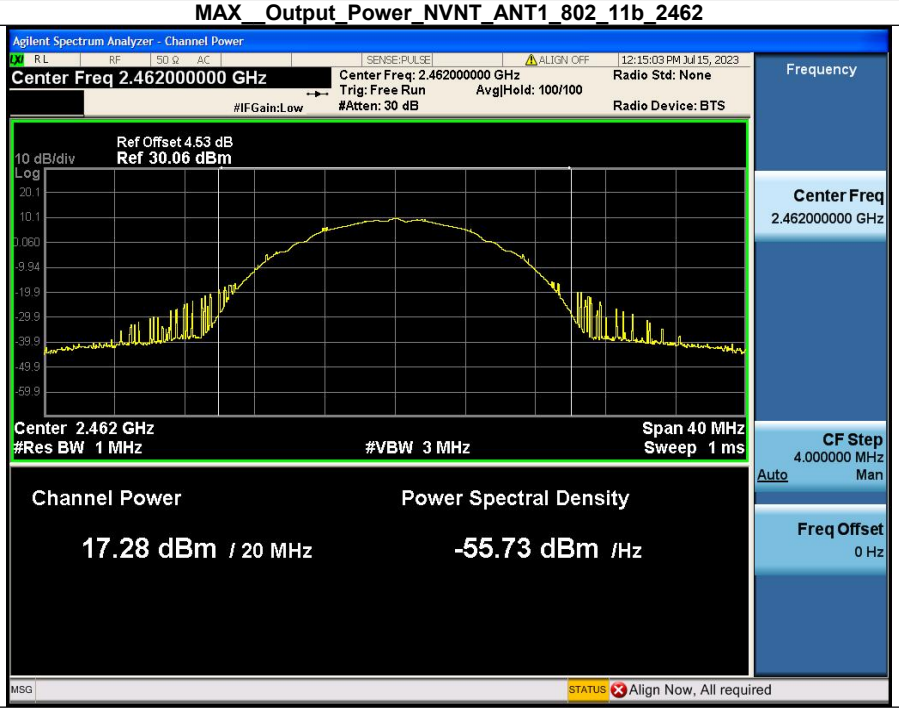
MAX__Output_Power_NVNT_ANT1_802_11b_2412



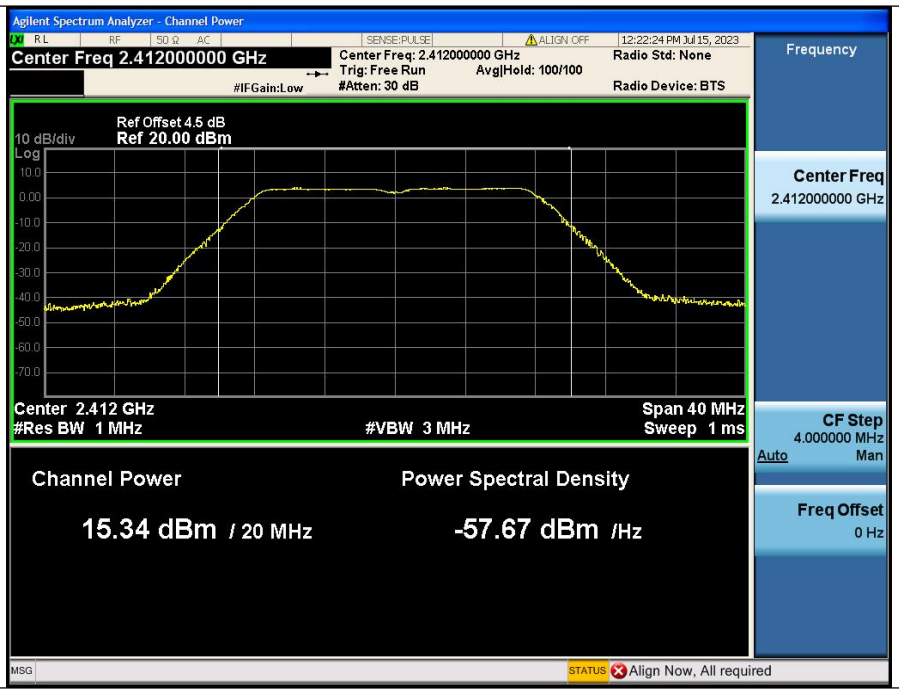
MAX__Output_Power_NVNT_ANT1_802_11b_2437



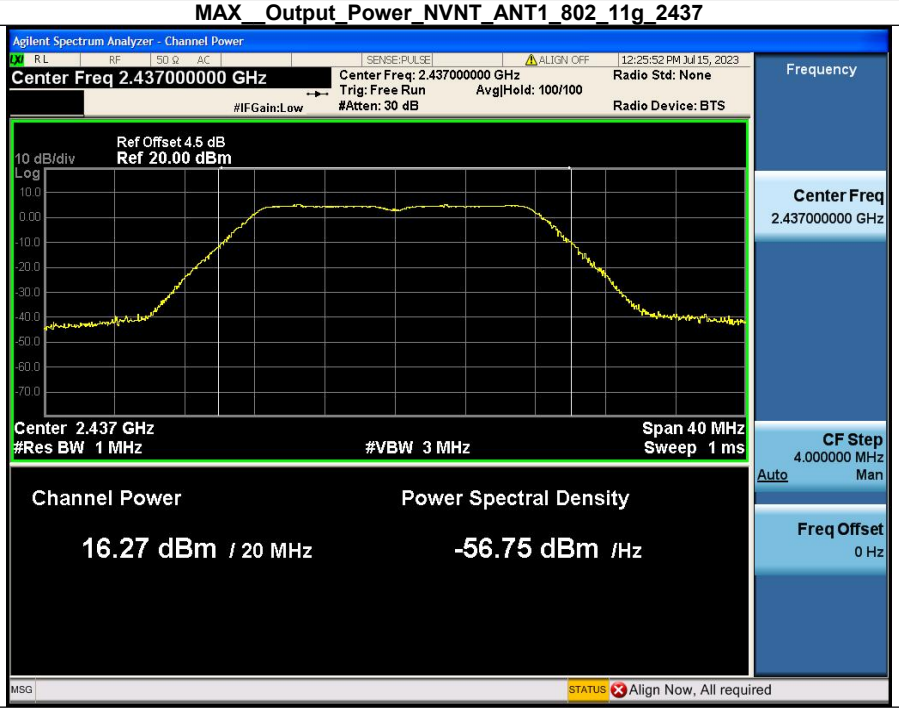
MAX__Output_Power_NVNT_ANT1_802_11b_2462



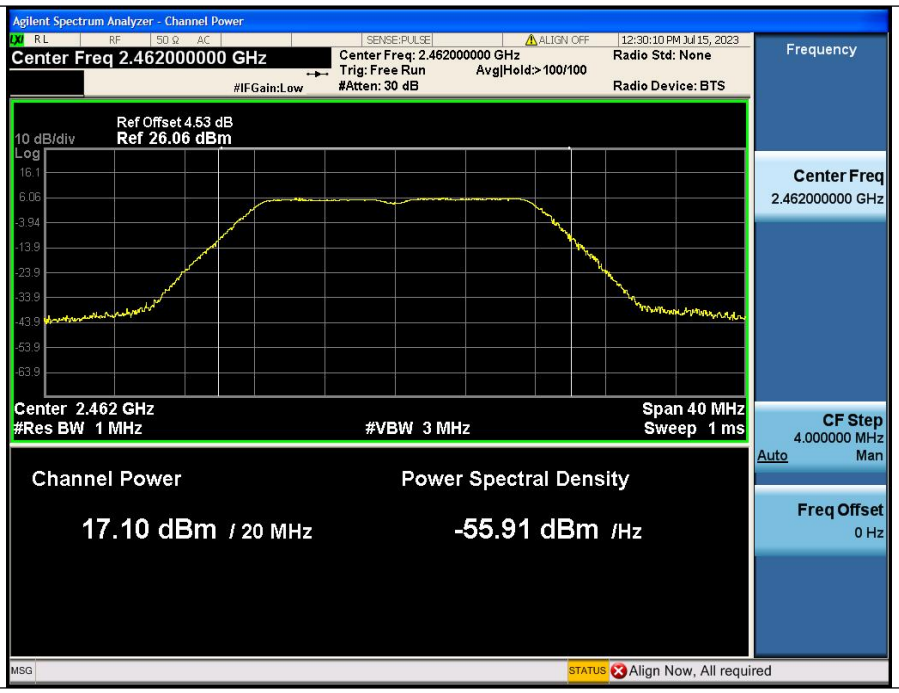
MAX__Output_Power_NVNT_ANT1_802_11g_2412



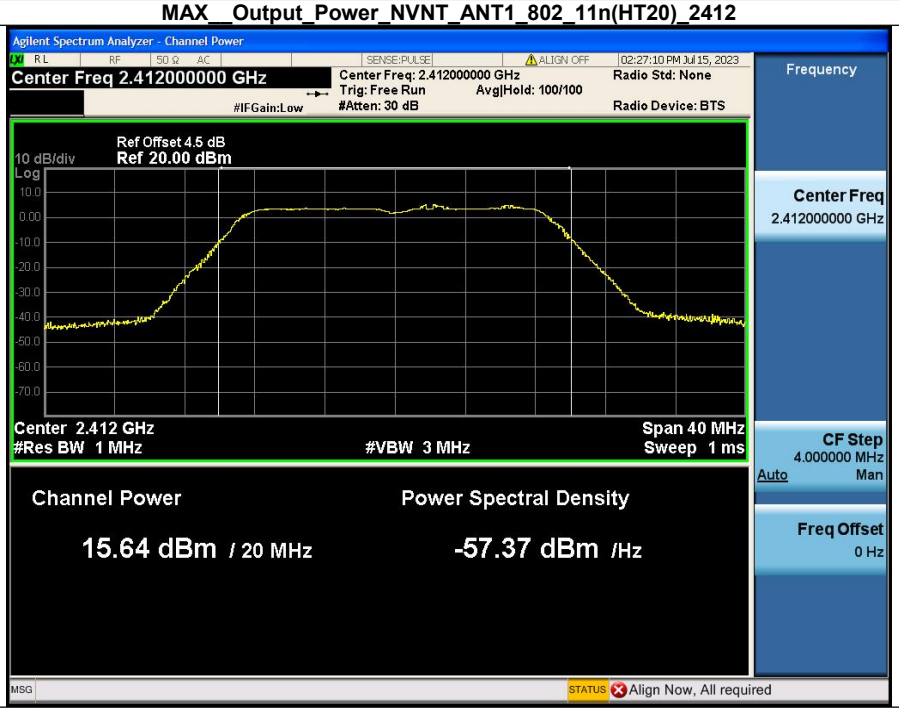
MAX__Output_Power_NVNT_ANT1_802_11g_2437



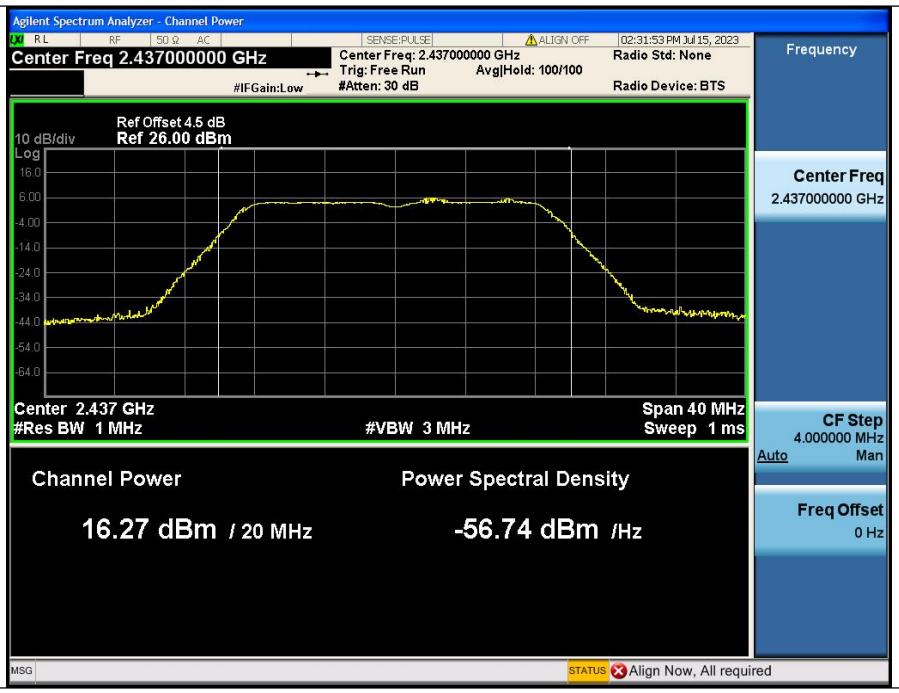
MAX__Output_Power_NVNT_ANT1_802_11g_2462



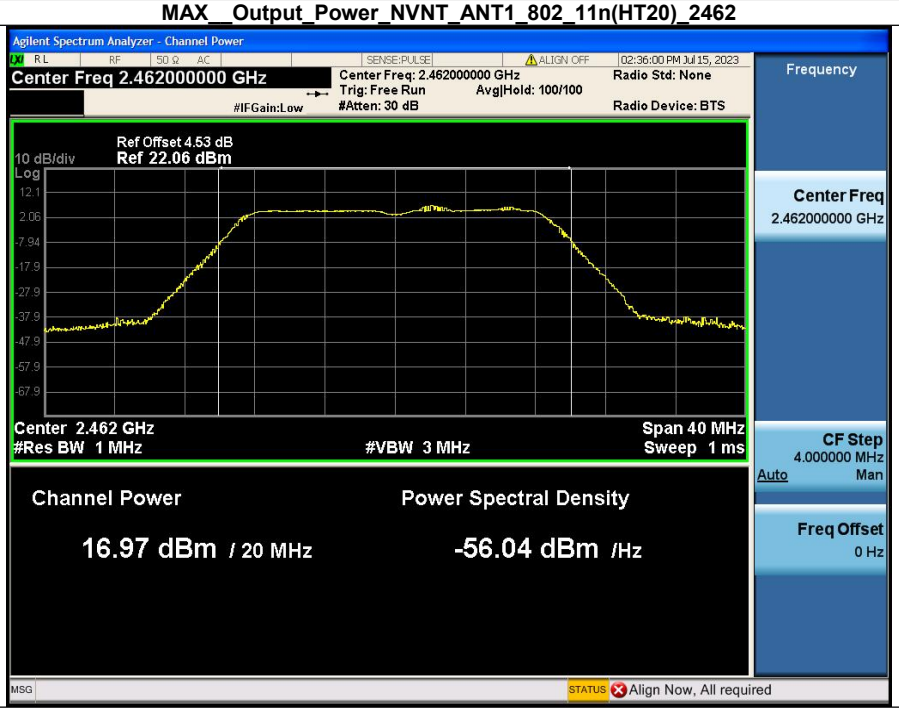
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412



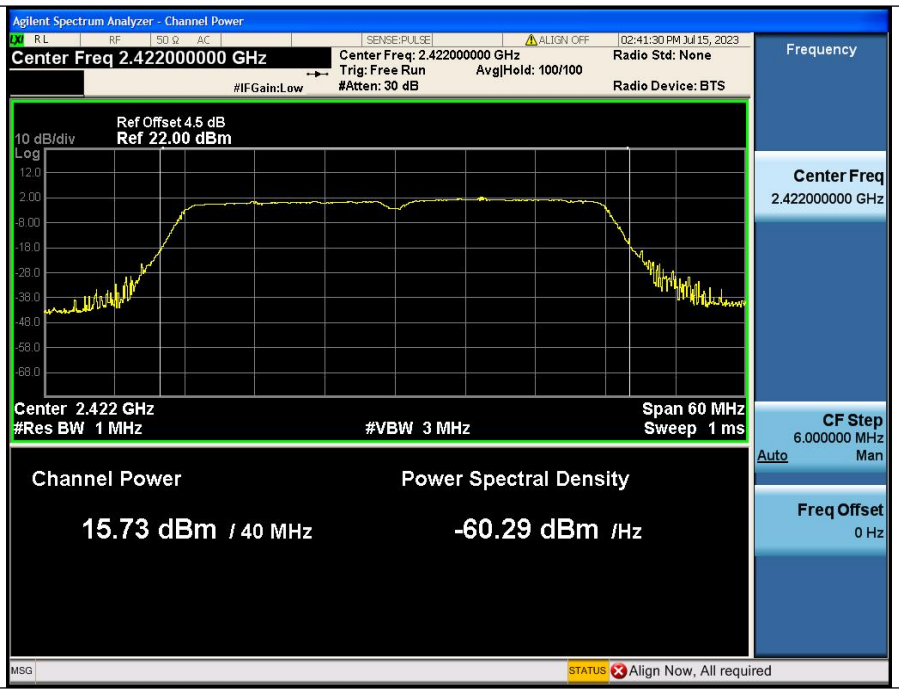
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



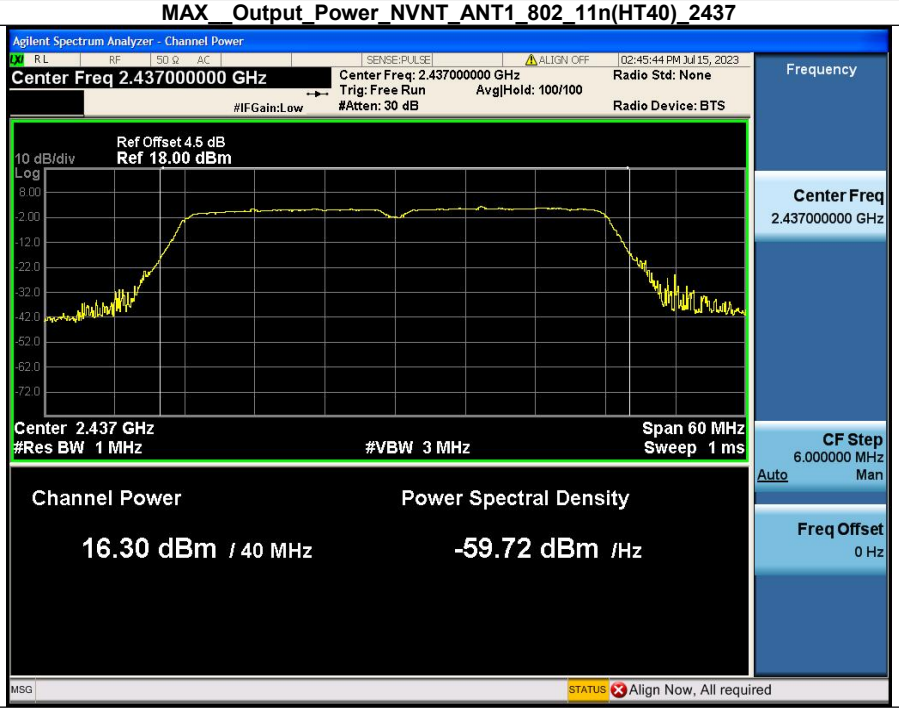
MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462



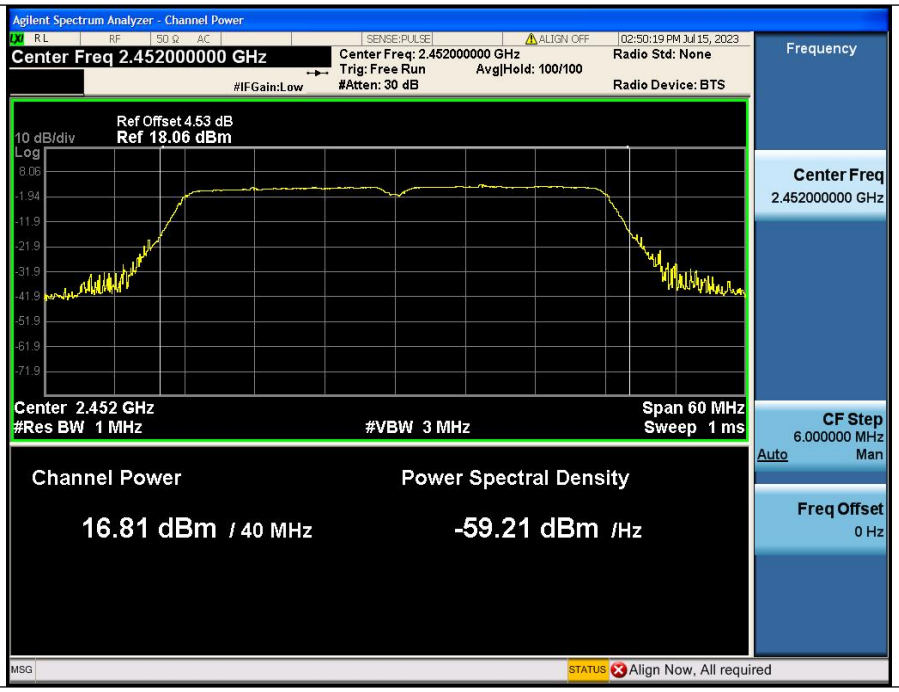
MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2452


Agilent Spectrum Analyzer - Channel Power
Center Freq 2.452000000 GHz
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
02:50:19 PM Jul 15, 2023
Frequency
Ref Offset 4.53 dB
10 dB/div
Ref 18.06 dBm
Log
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 60 MHz
Sweep 1 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
16.81 dBm / 40 MHz
Power Spectral Density
-59.21 dBm /Hz
Freq Offset
0 Hz
MSG
STATUS
Align Now, All required

4. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-8.95	8	Pass
NVNT	ANT1	802.11b	2437.00	-8.10	8	Pass
NVNT	ANT1	802.11b	2462.00	-7.26	8	Pass
NVNT	ANT1	802.11g	2412.00	-17.04	8	Pass
NVNT	ANT1	802.11g	2437.00	-15.94	8	Pass
NVNT	ANT1	802.11g	2462.00	-15.32	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-17.63	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-16.78	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-16.03	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-19.43	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-19.19	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-18.77	8	Pass

Power_Spectral_Density_NVNT_ANT1_802_11b_2412

Power_Spectral_Density_NVNT_ANT1_802_11b_2437