Report No.:NCT24042550XE1-3
FCC ID:2BLYF-M8
FCC_2.4G_WIFI (Part15.247) Test Data

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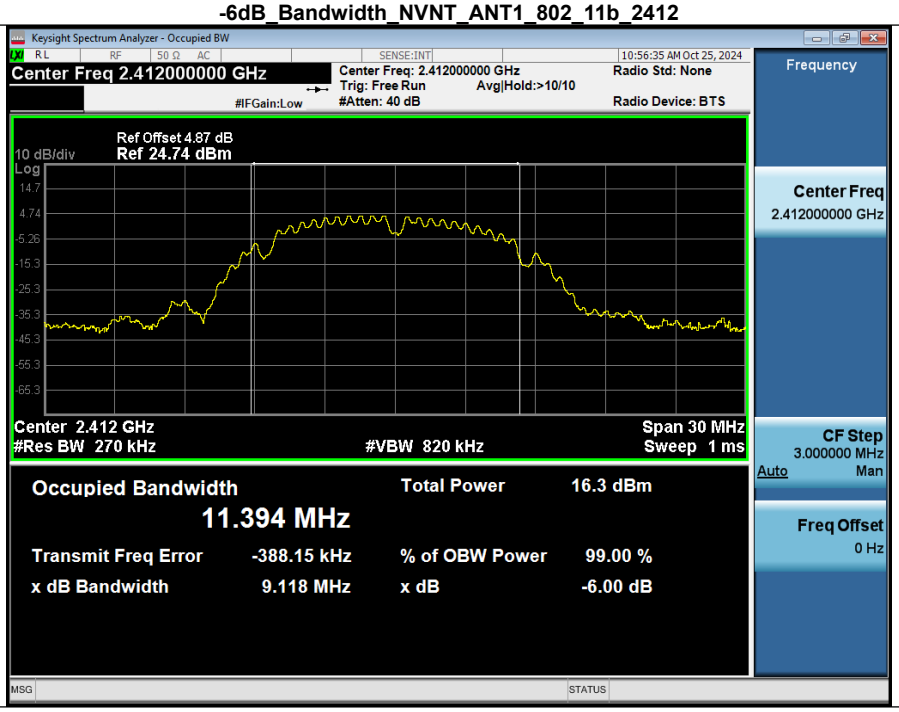
1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.12	500	Pass
NVNT	ANT1	802.11b	2437.00	9.19	500	Pass
NVNT	ANT1	802.11b	2462.00	9.18	500	Pass
NVNT	ANT1	802.11g	2412.00	16.48	500	Pass
NVNT	ANT1	802.11g	2437.00	16.44	500	Pass
NVNT	ANT1	802.11g	2462.00	16.39	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.44	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.41	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.48	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.94	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.86	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.88	500	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	17.34	500	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	17.47	500	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	17.41	500	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	35.79	500	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	35.78	500	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	36.07	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



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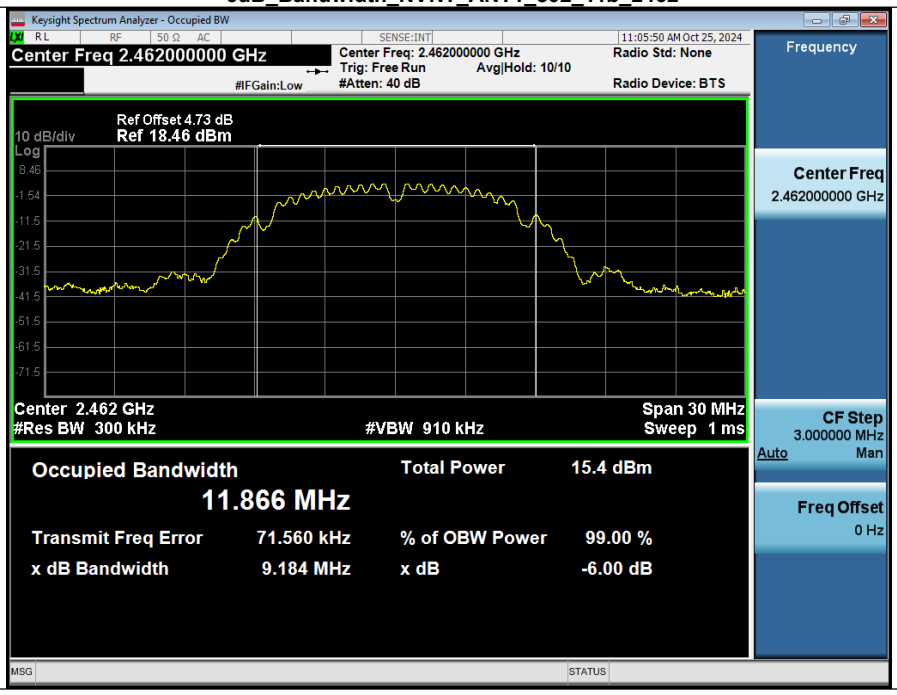
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



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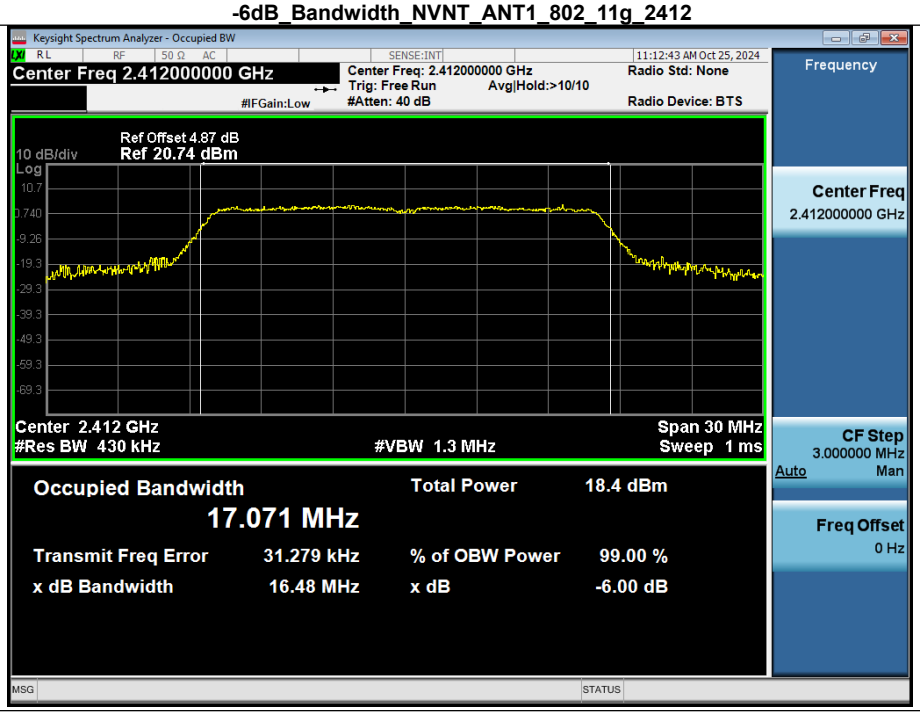

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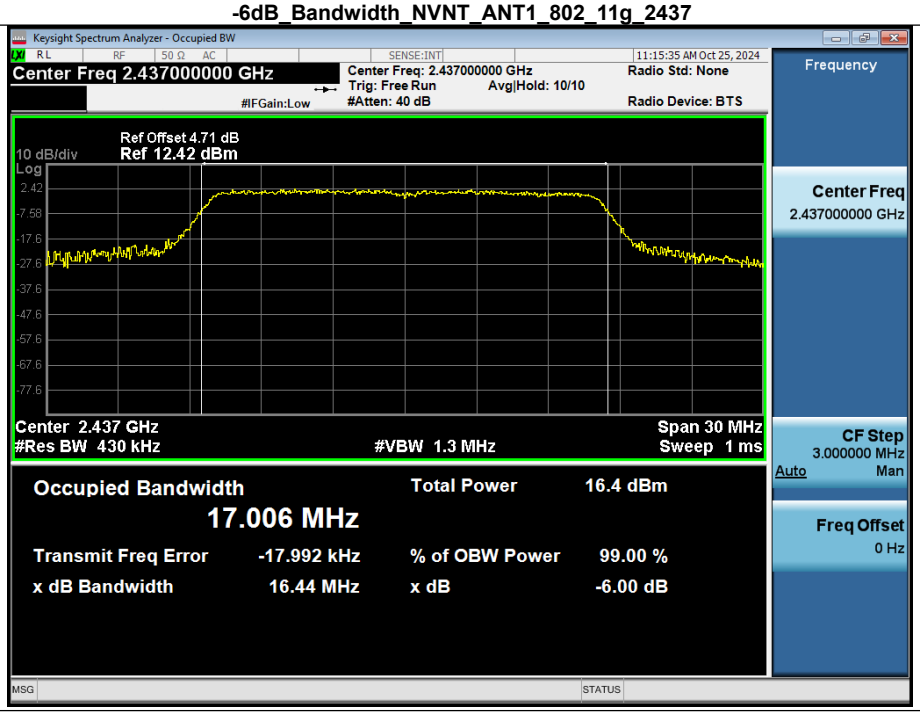

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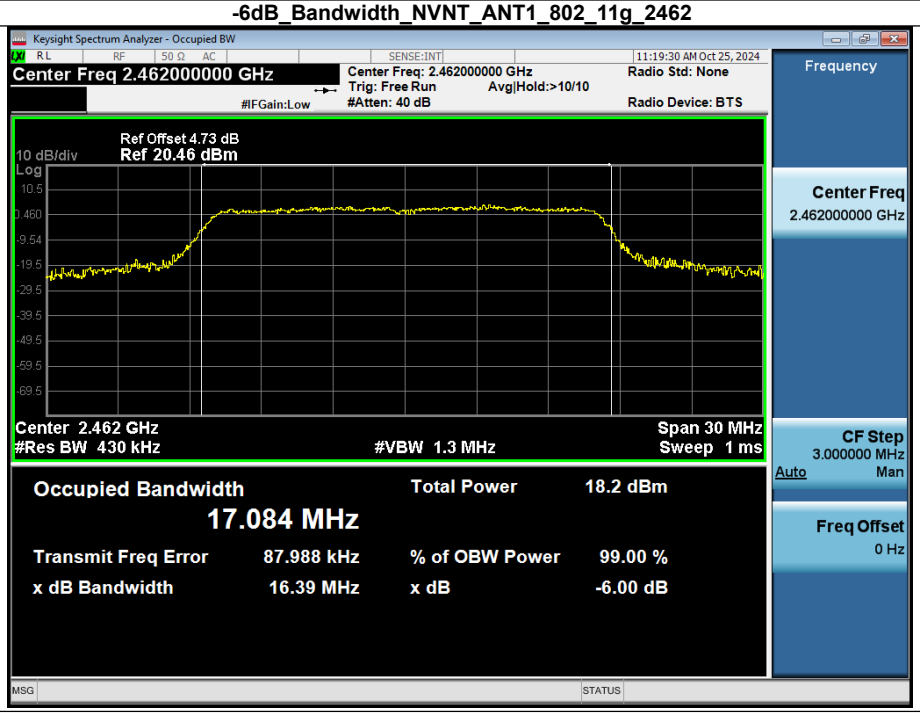

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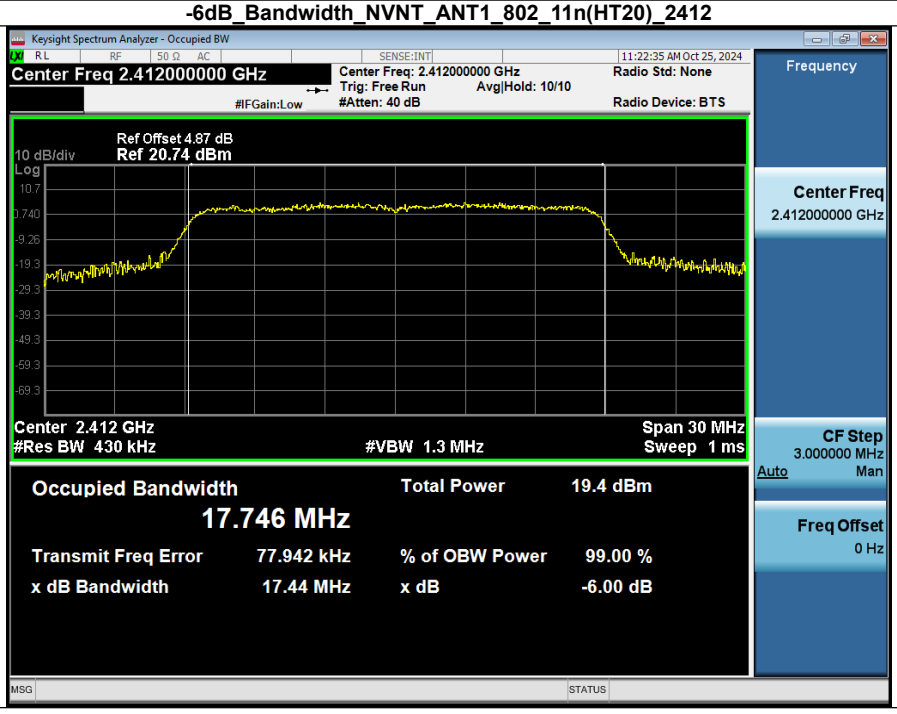

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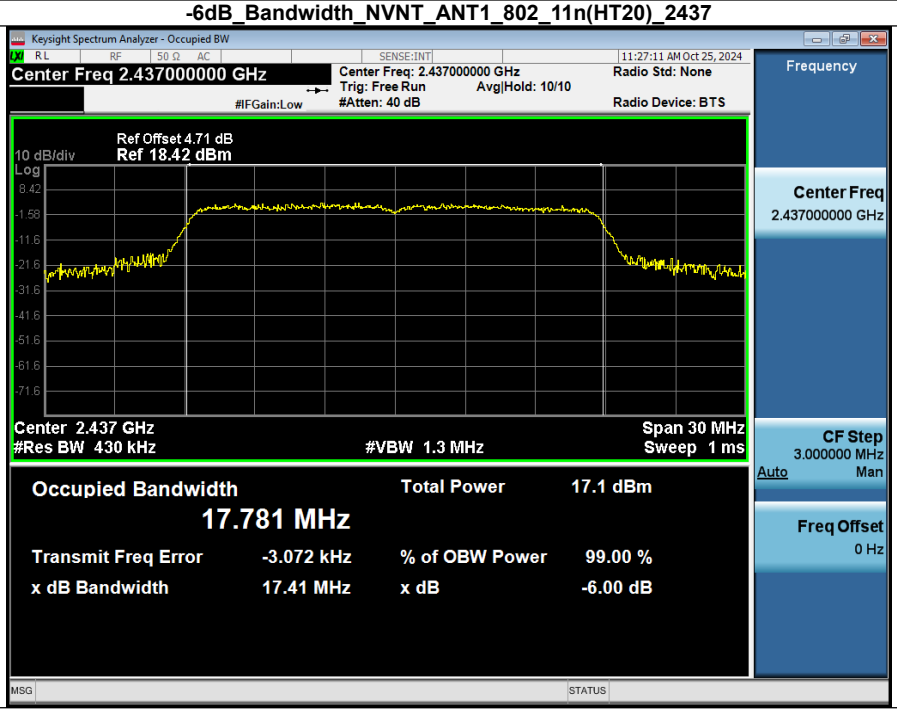

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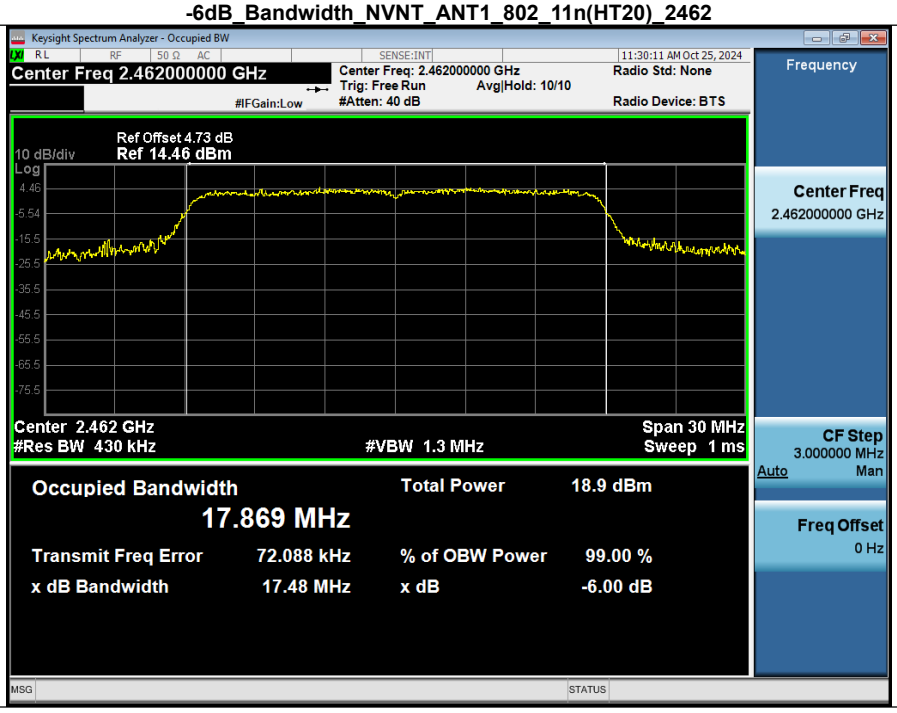
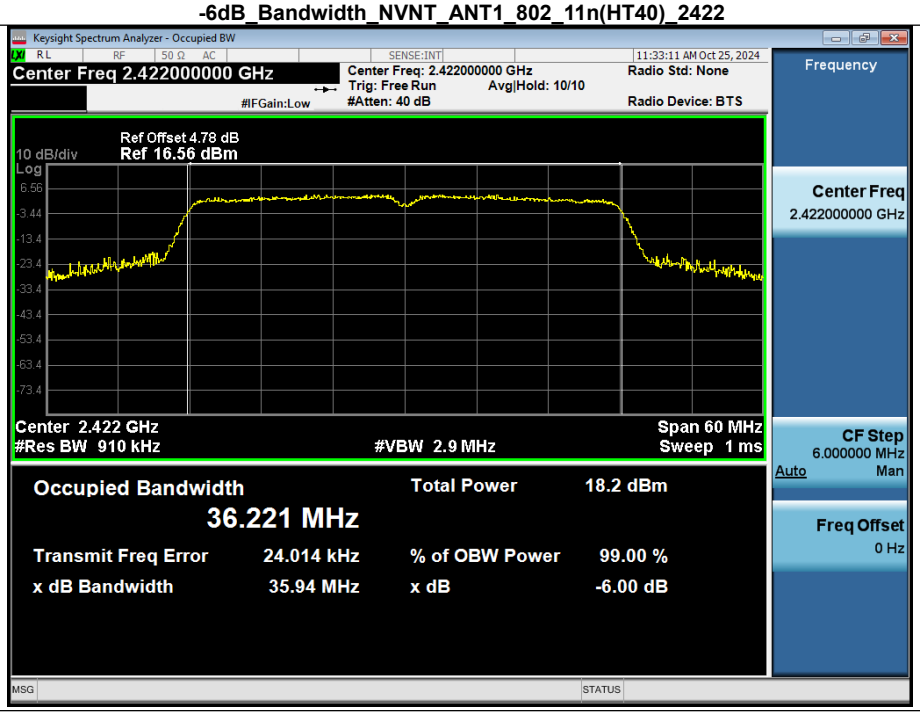


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



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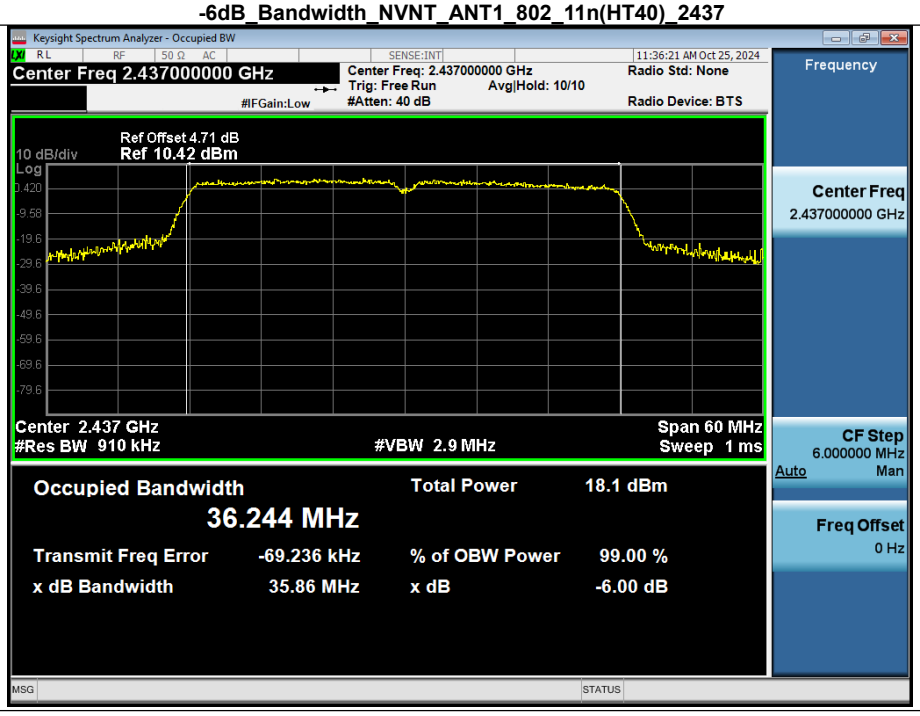

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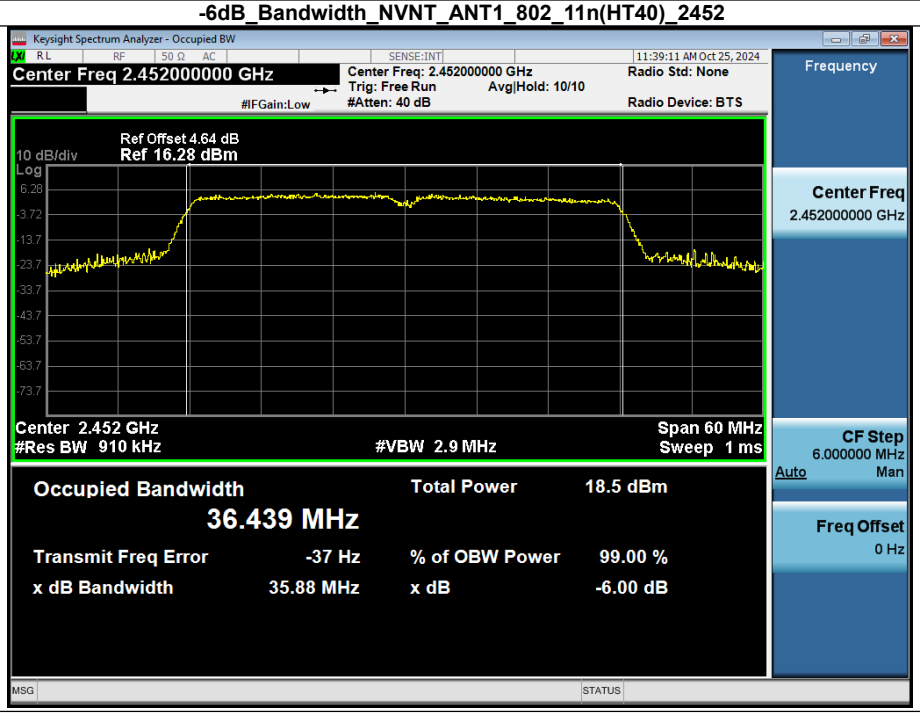
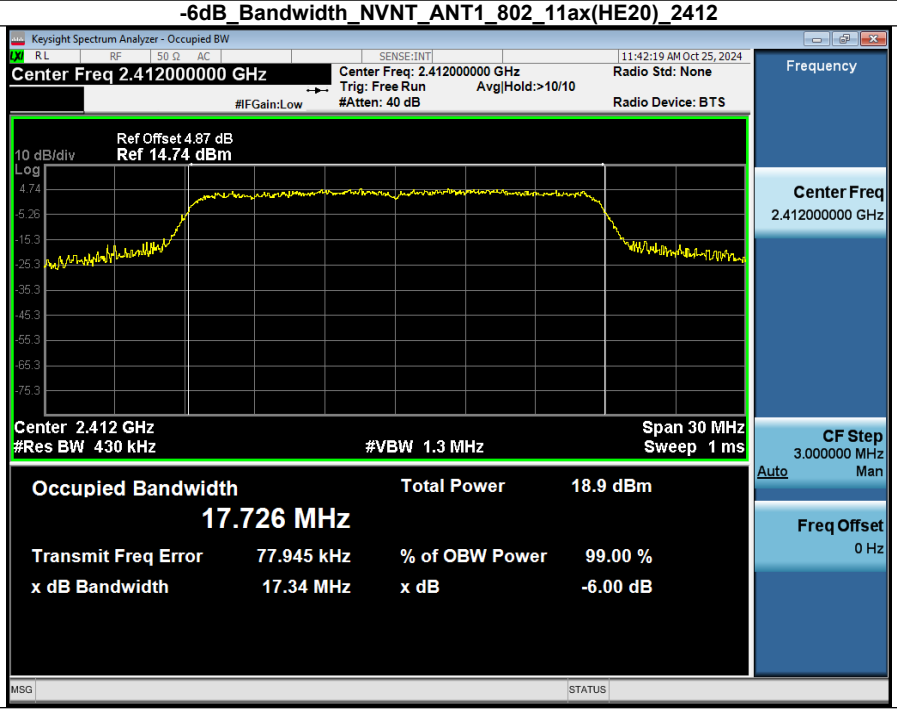


-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2412



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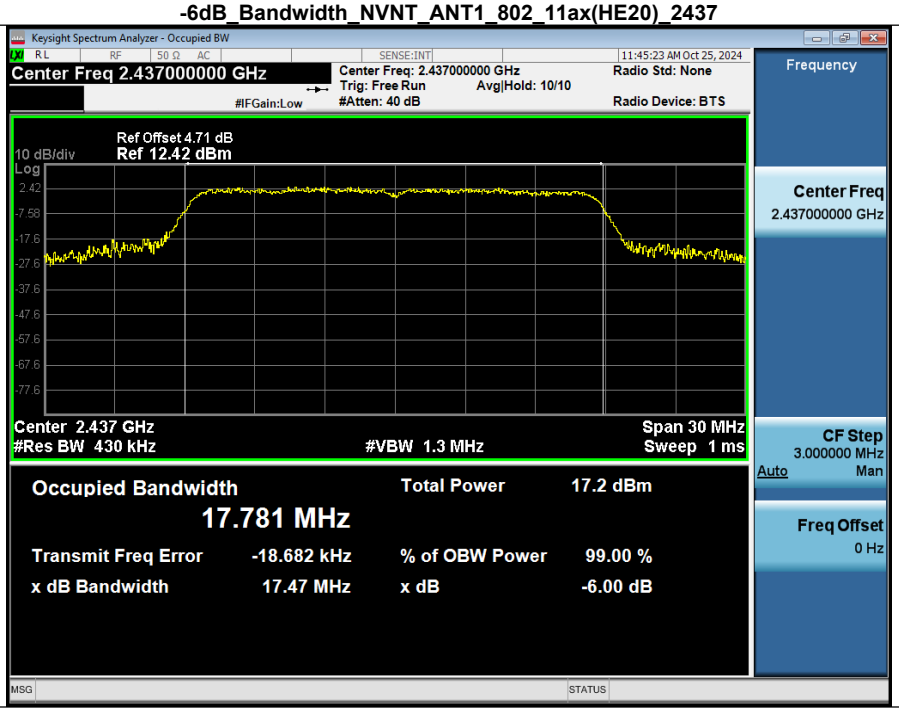

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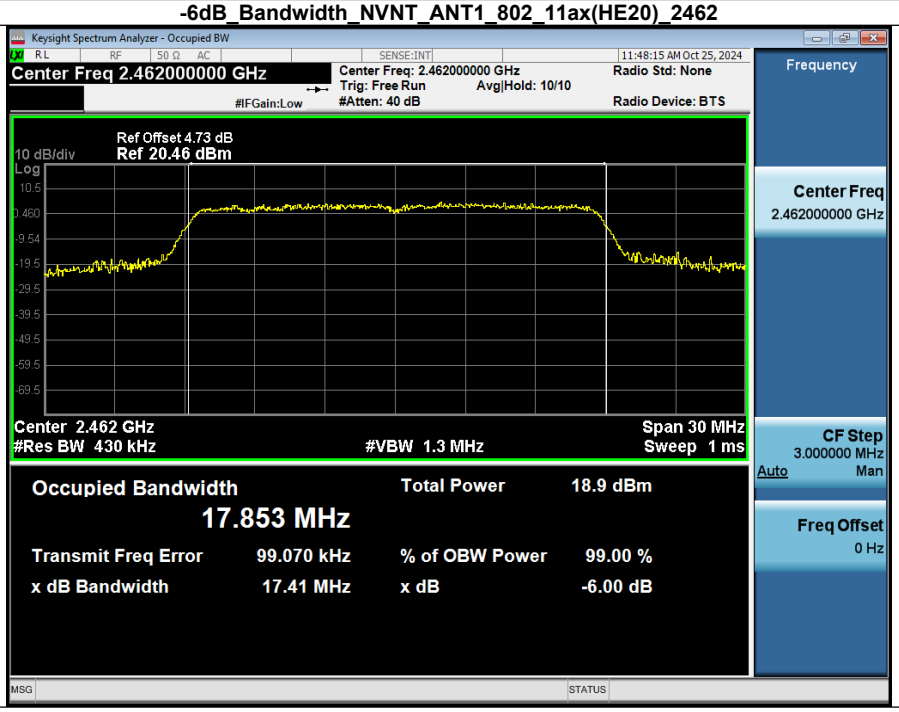
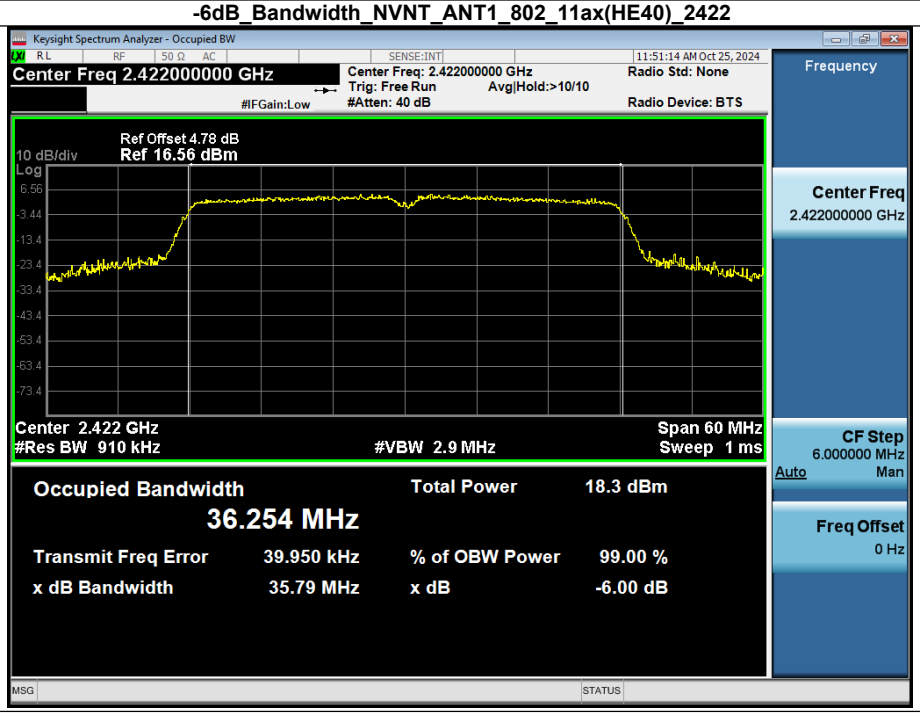


-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2422



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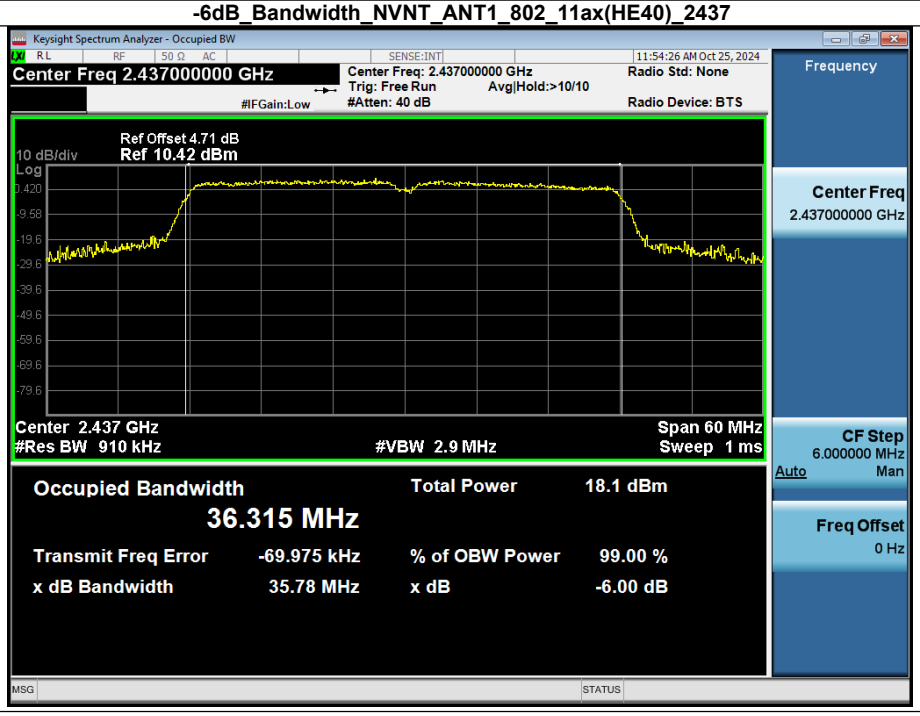
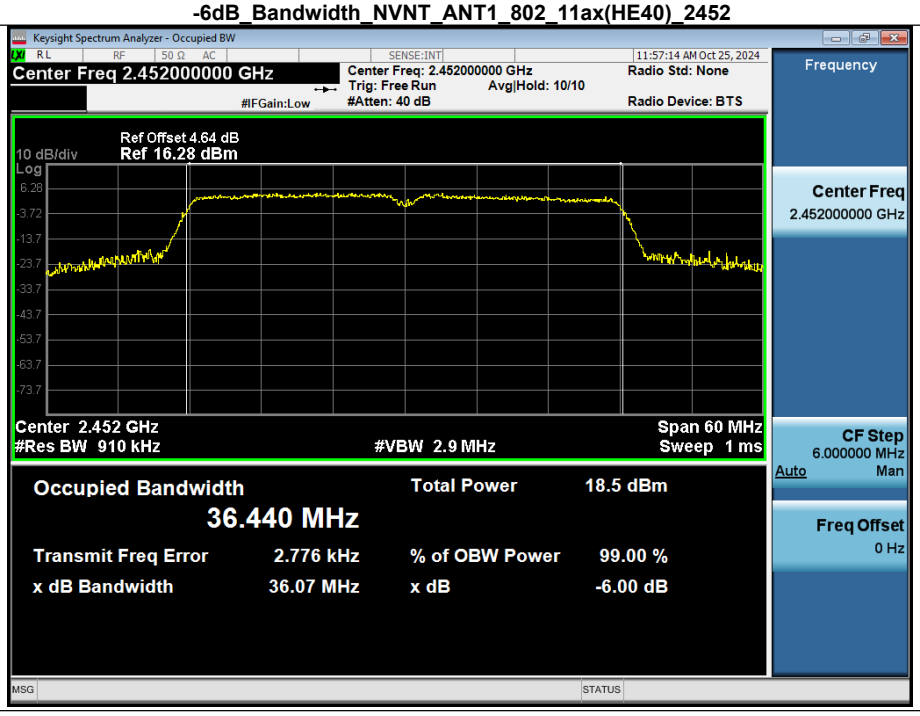


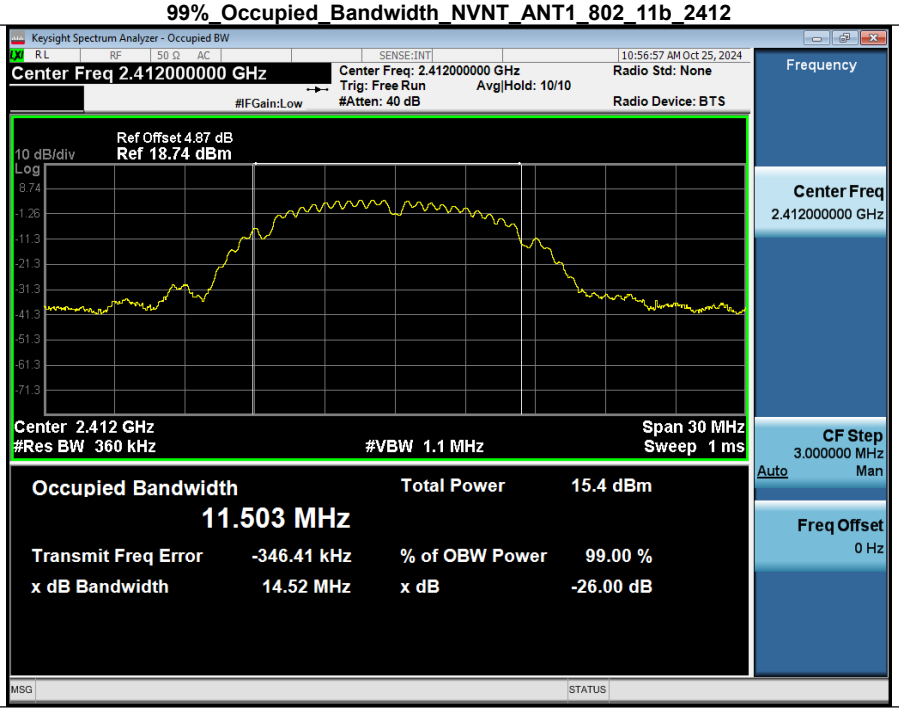
-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.503
NVNT	ANT1	802.11b	2437.00	11.889
NVNT	ANT1	802.11b	2462.00	11.871
NVNT	ANT1	802.11g	2412.00	17.191
NVNT	ANT1	802.11g	2437.00	17.094
NVNT	ANT1	802.11g	2462.00	17.303
NVNT	ANT1	802.11n(HT20)	2412.00	17.775
NVNT	ANT1	802.11n(HT20)	2437.00	17.857
NVNT	ANT1	802.11n(HT20)	2462.00	17.926
NVNT	ANT1	802.11n(HT40)	2422.00	36.238
NVNT	ANT1	802.11n(HT40)	2437.00	36.281
NVNT	ANT1	802.11n(HT40)	2452.00	36.452
NVNT	ANT1	802.11ax(HE20)	2412.00	17.763
NVNT	ANT1	802.11ax(HE20)	2437.00	17.830
NVNT	ANT1	802.11ax(HE20)	2462.00	17.923
NVNT	ANT1	802.11ax(HE40)	2422.00	36.287
NVNT	ANT1	802.11ax(HE40)	2437.00	36.278
NVNT	ANT1	802.11ax(HE40)	2452.00	36.494

99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



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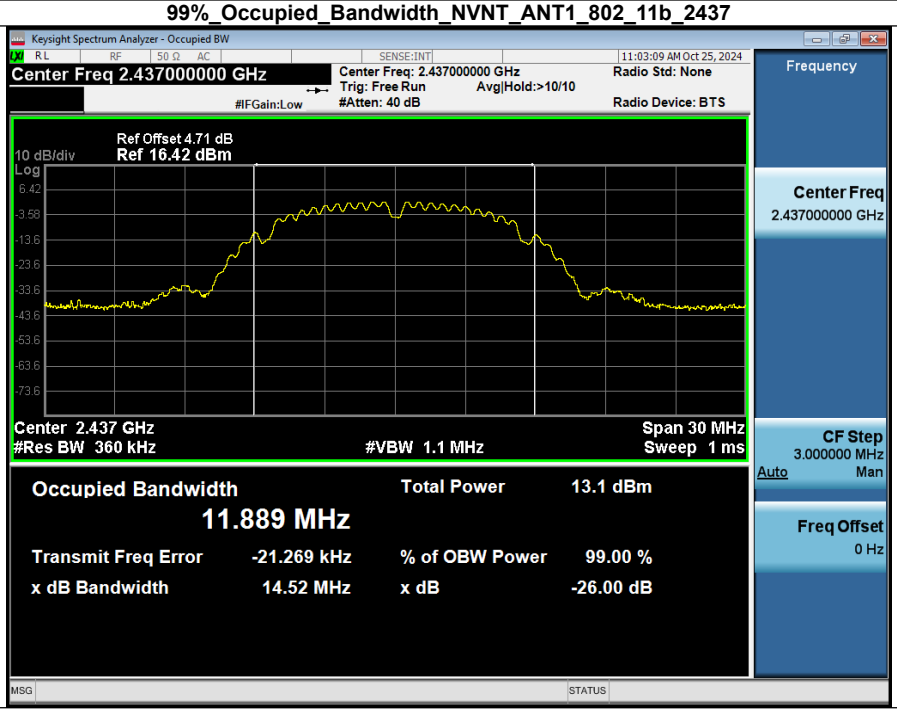
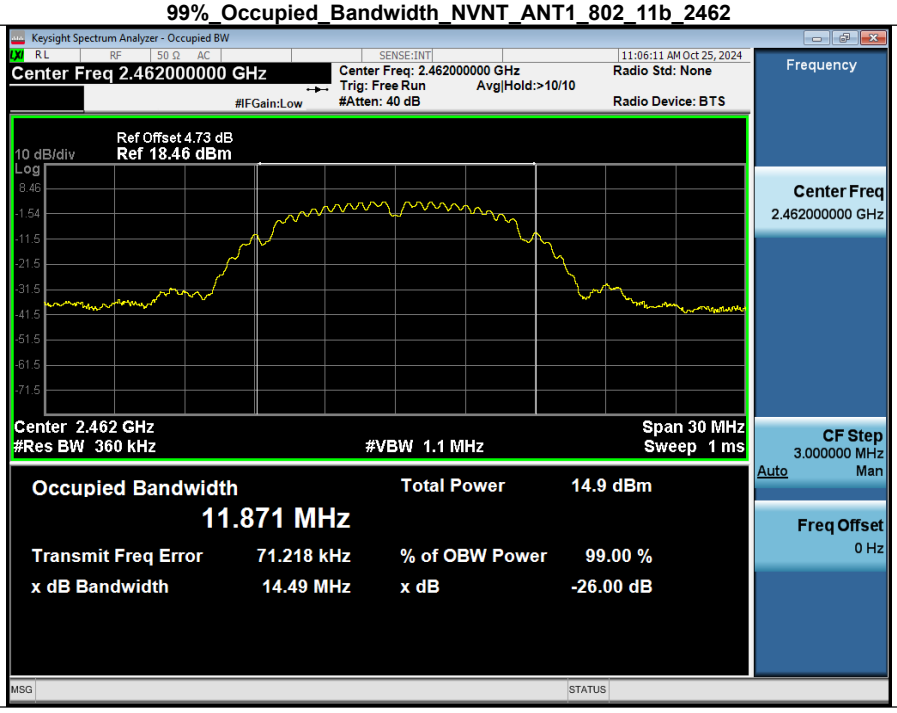
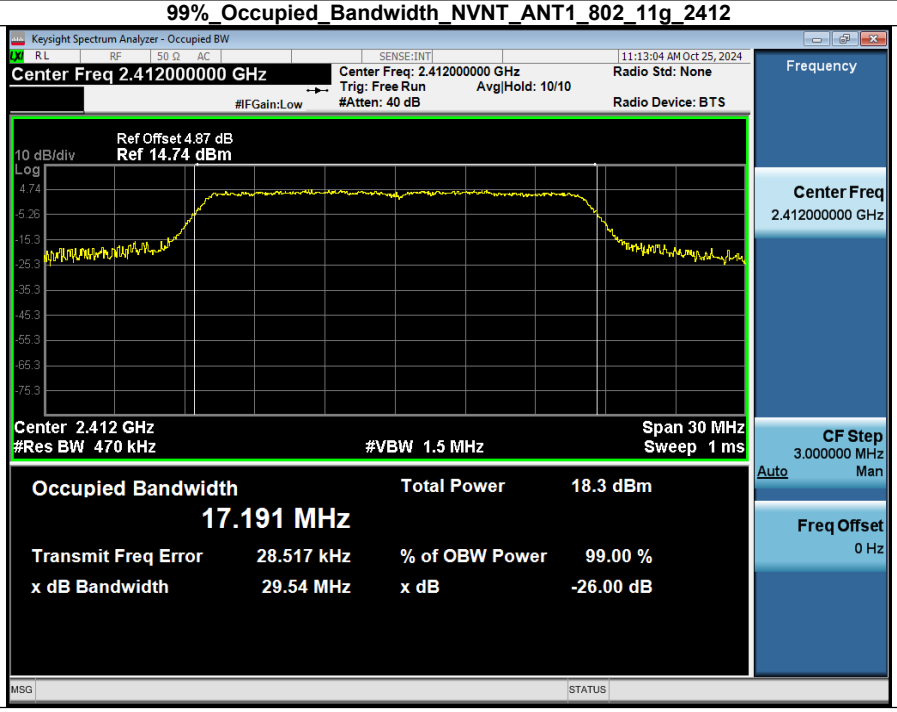


99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2412



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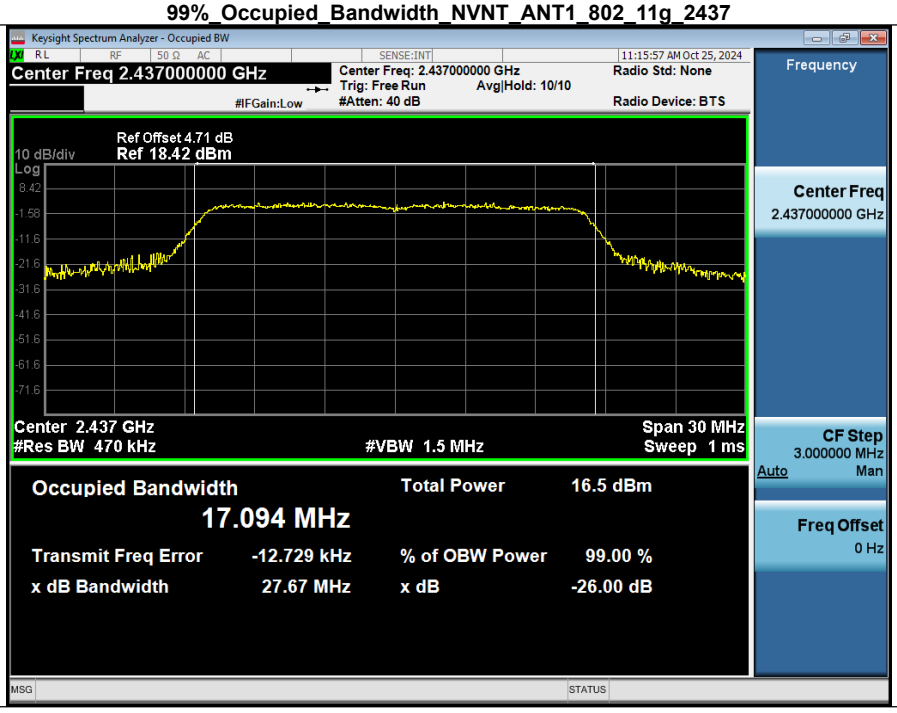
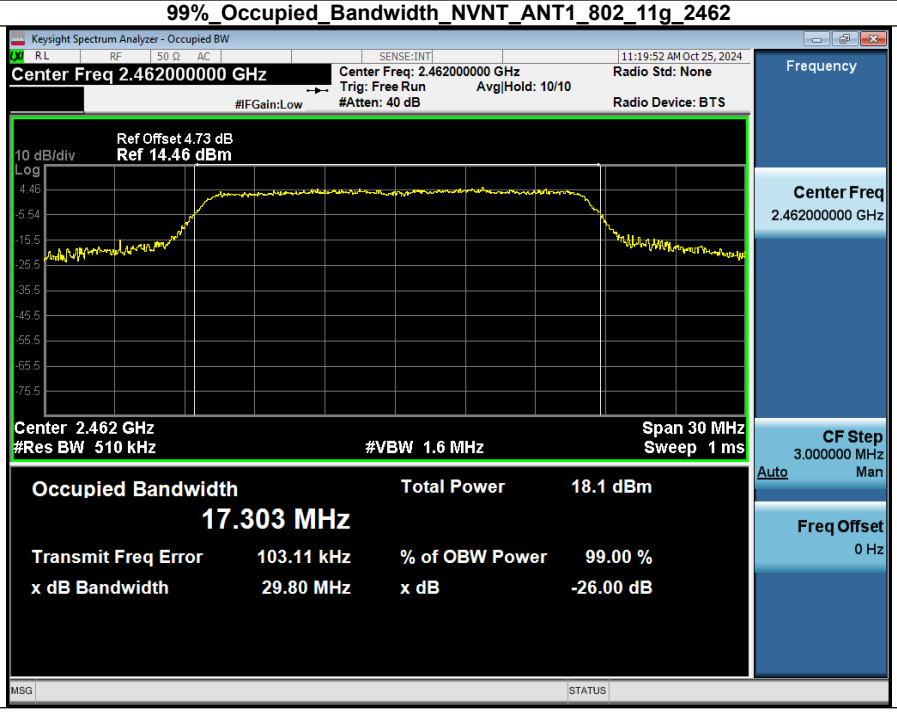
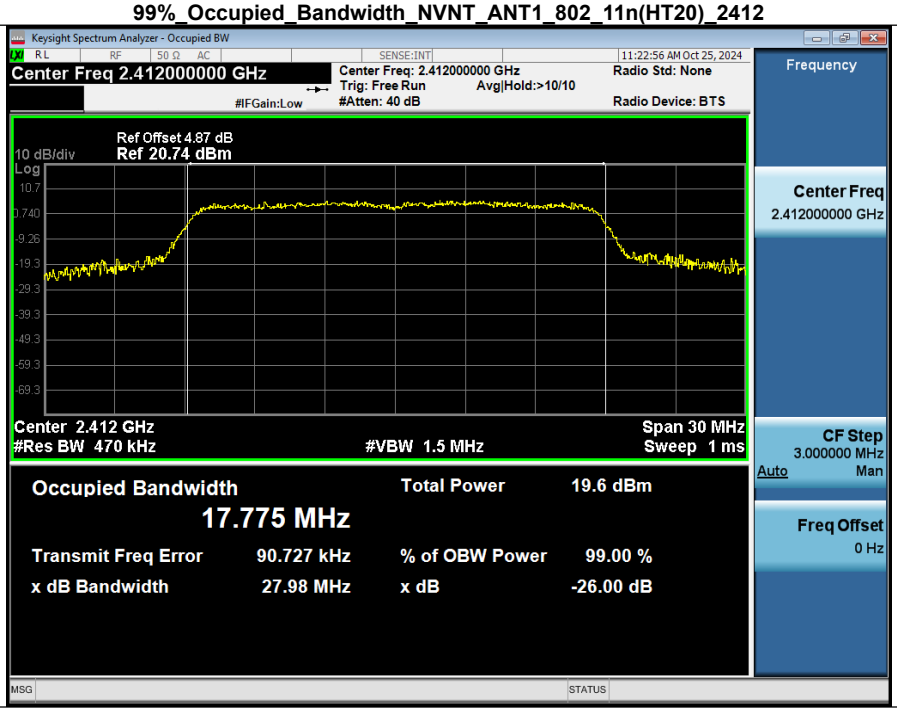


99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



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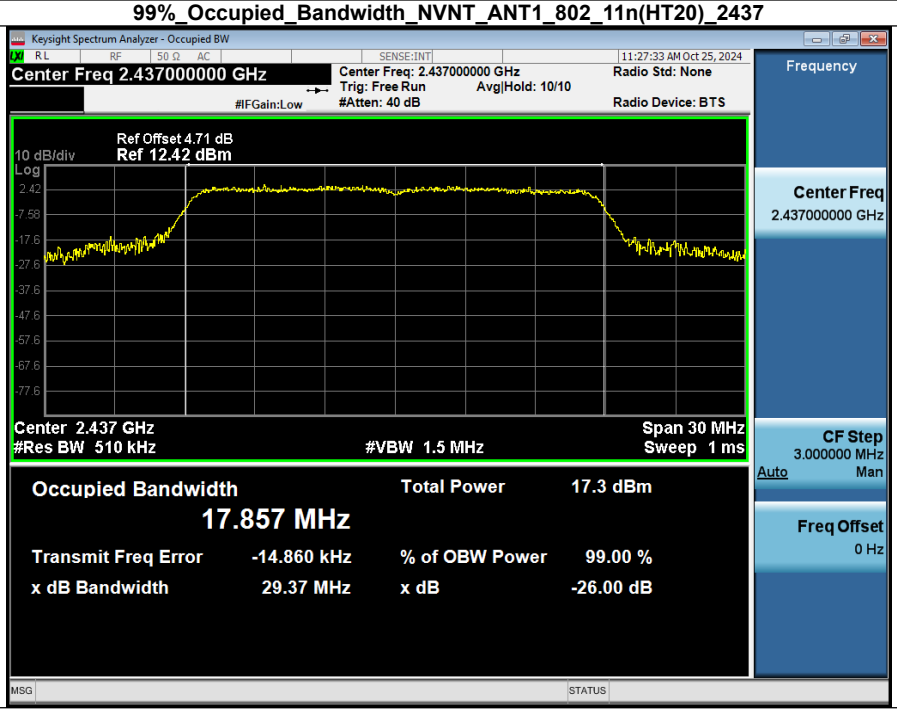
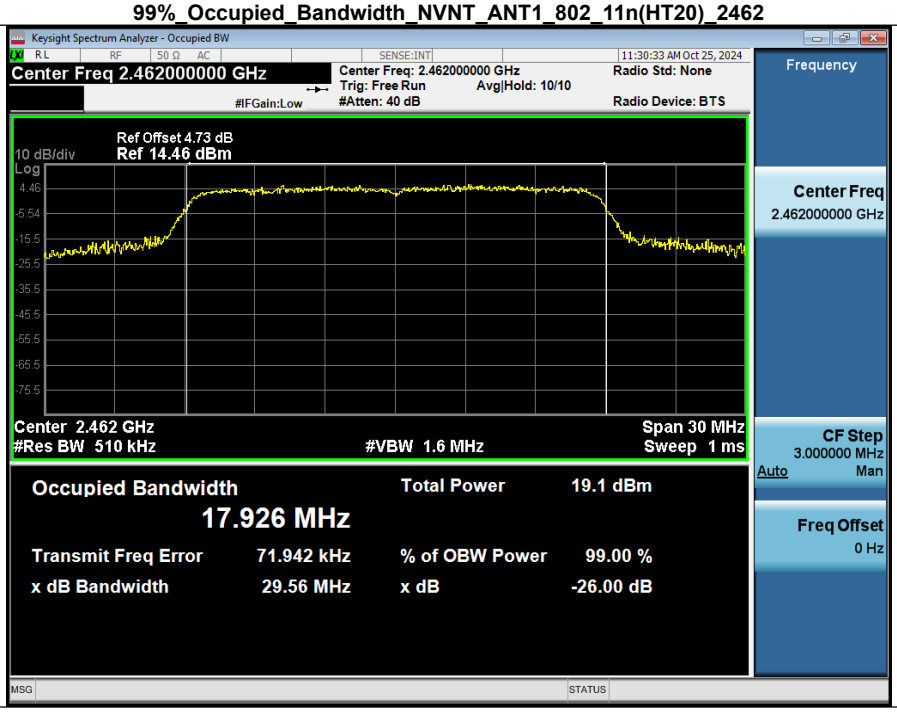
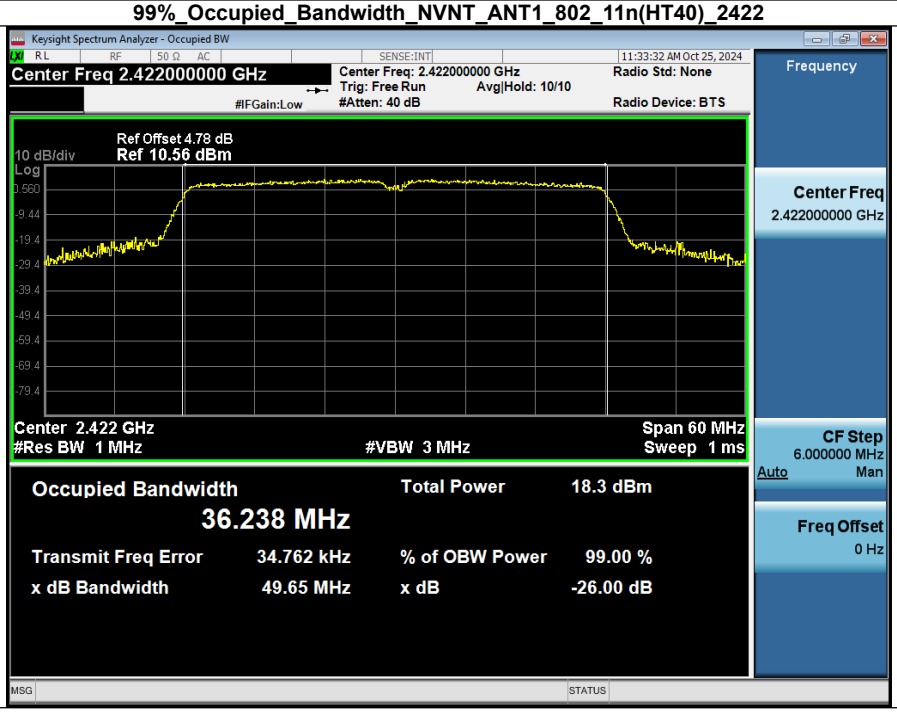


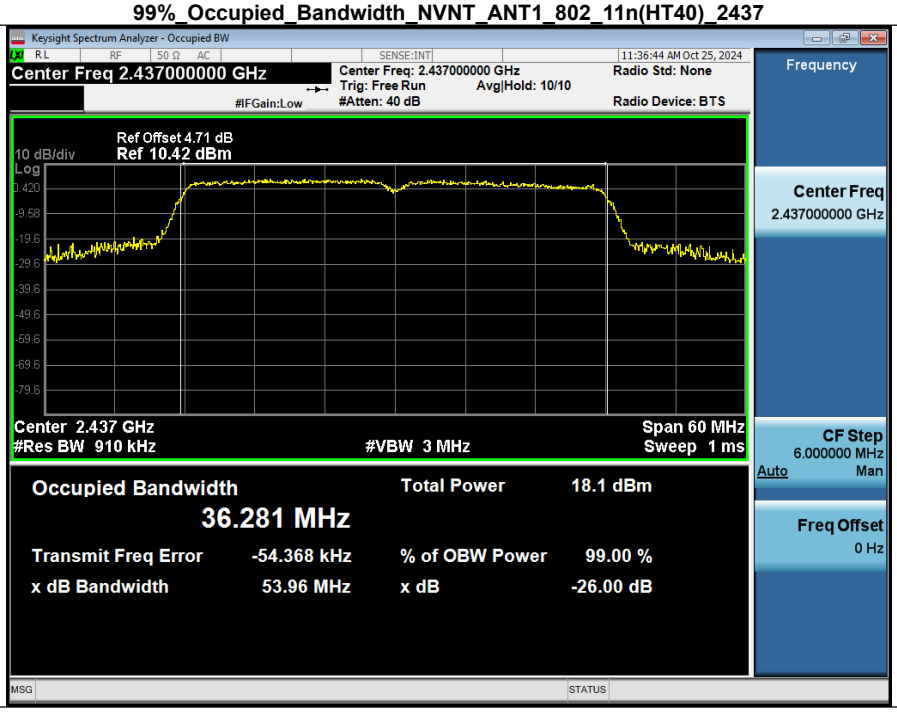
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



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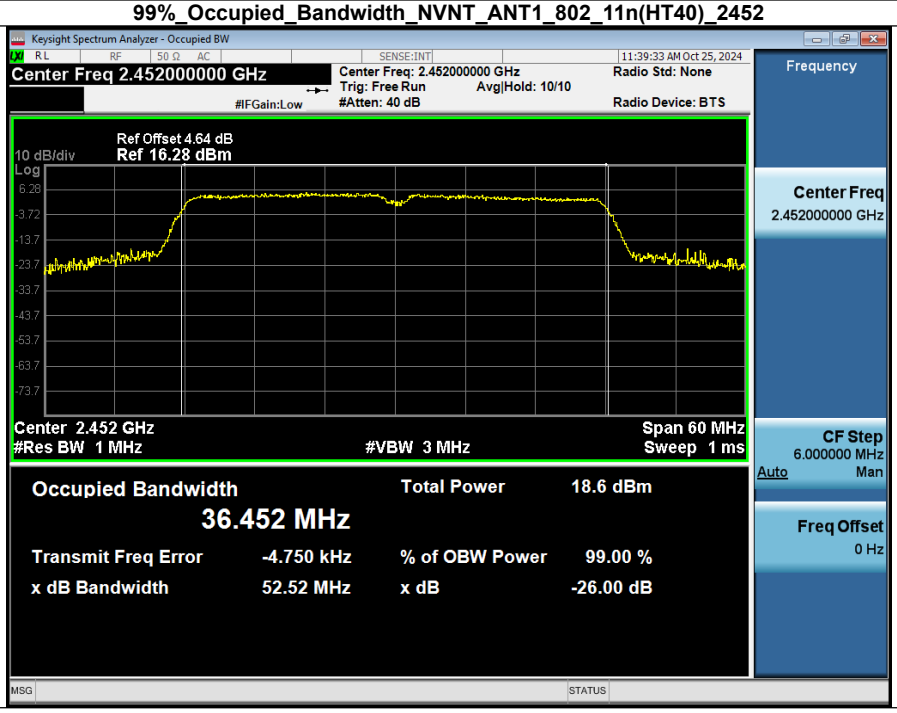
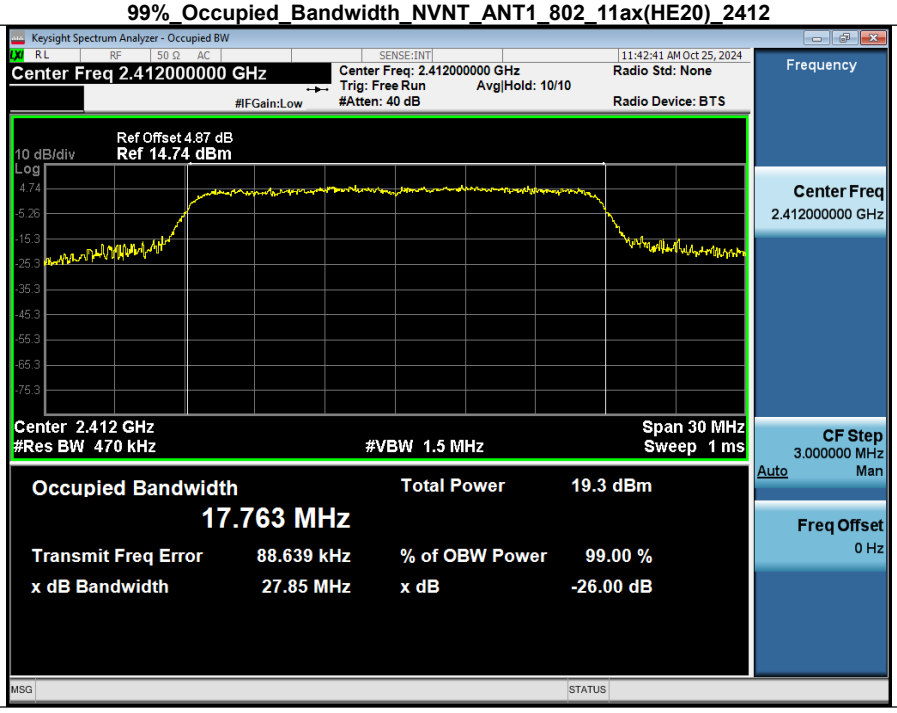


99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2412



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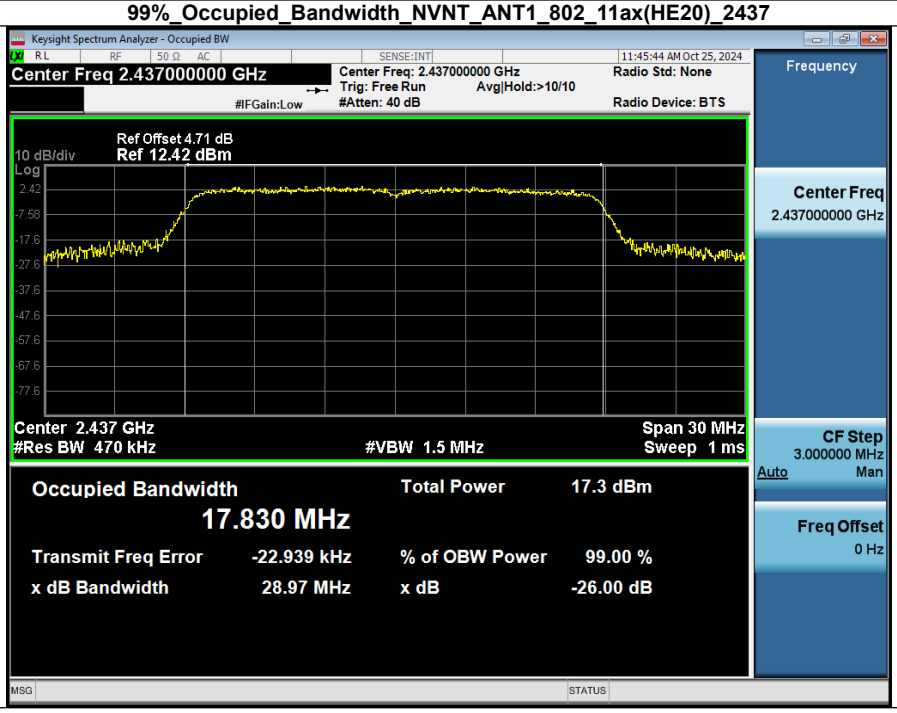

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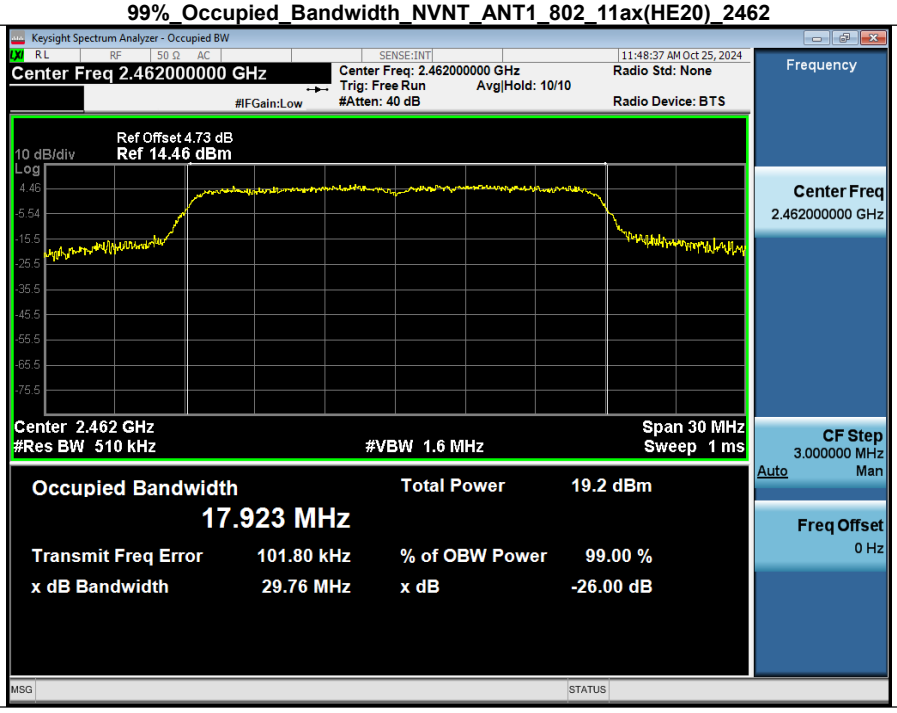

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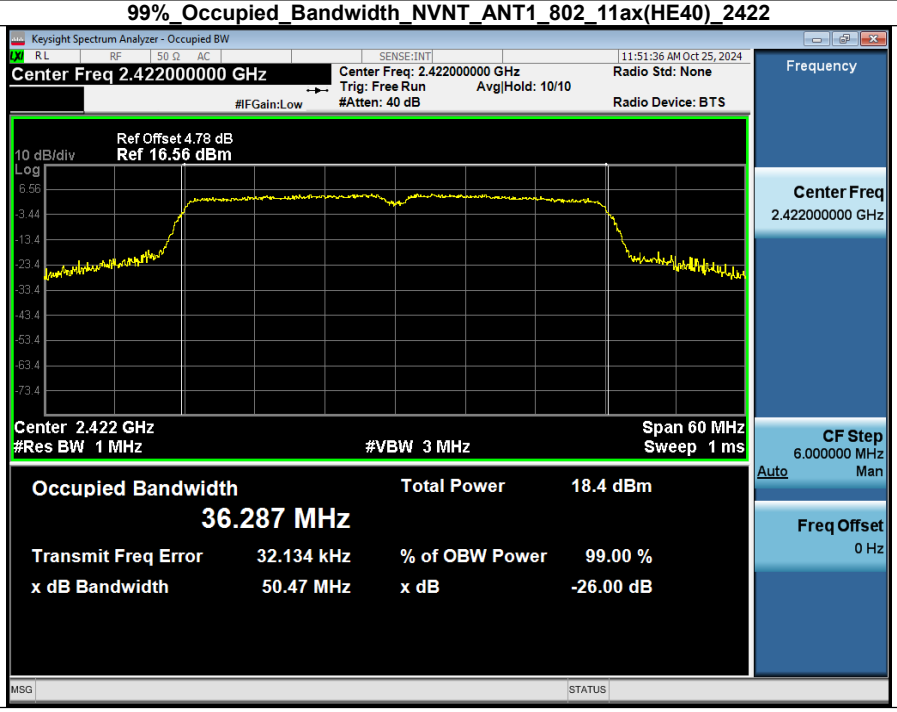

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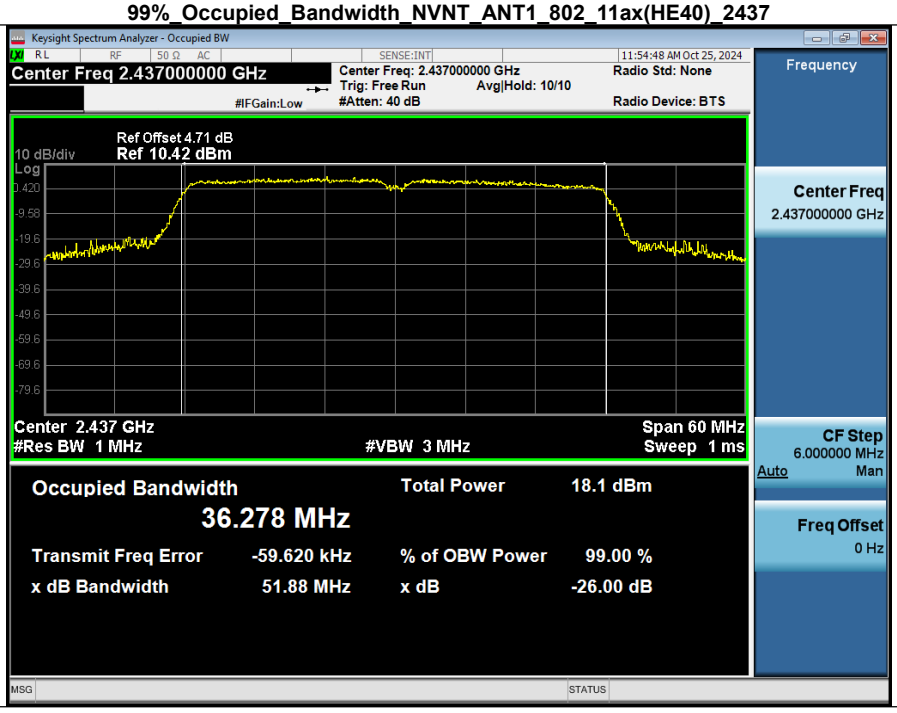

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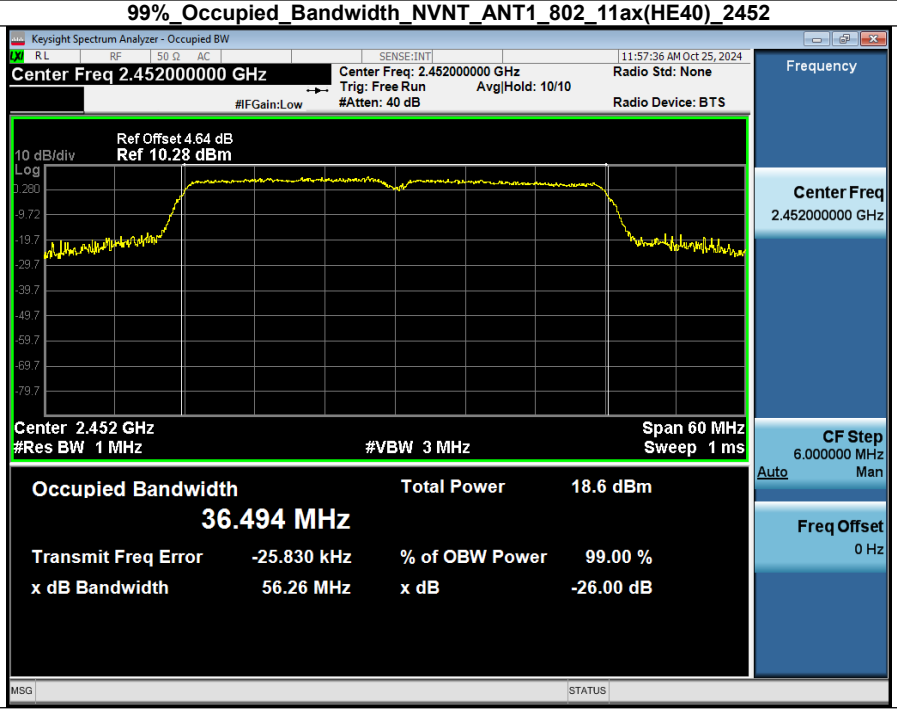
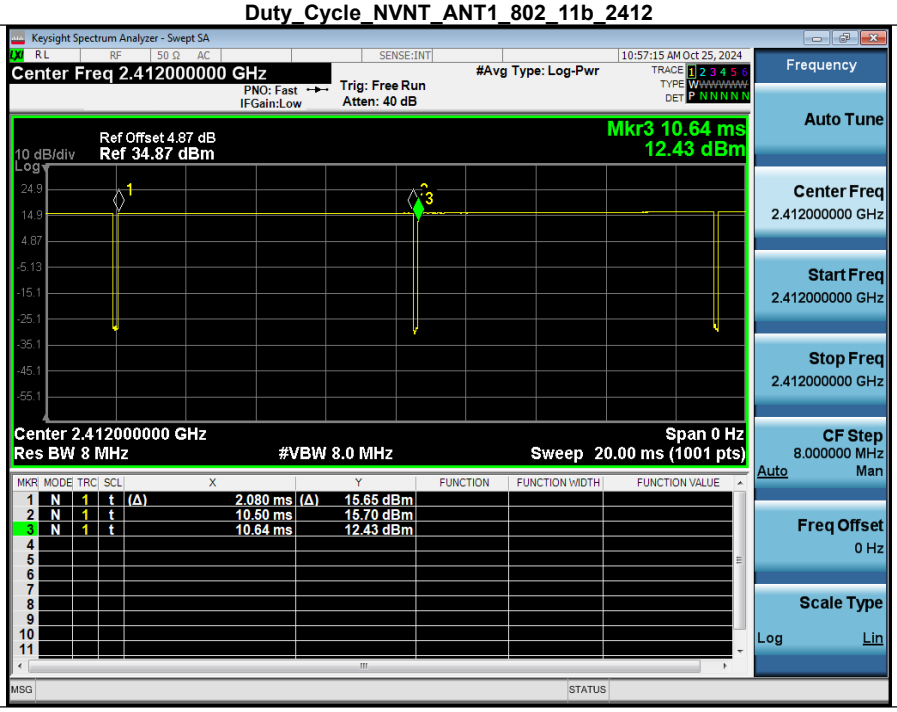


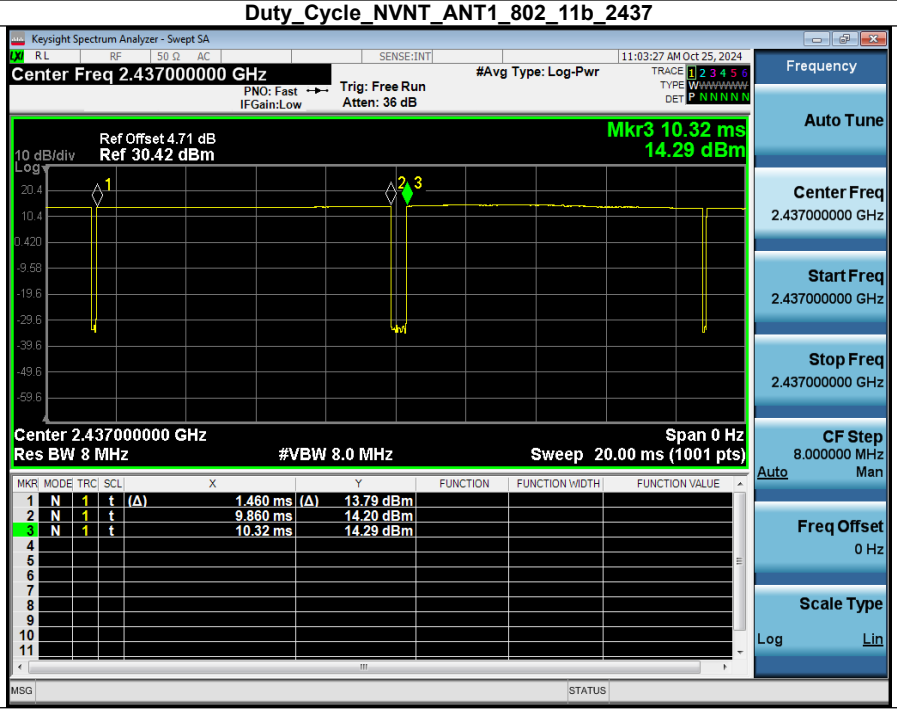
3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	98.60	0.00
NVNT	ANT1	802.11b	2437.00	95.03	0.22
NVNT	ANT1	802.11b	2462.00	98.37	0.00
NVNT	ANT1	802.11g	2412.00	92.21	0.35
NVNT	ANT1	802.11g	2437.00	92.21	0.35
NVNT	ANT1	802.11g	2462.00	91.03	0.41
NVNT	ANT1	802.11n(HT20)	2412.00	89.55	0.48
NVNT	ANT1	802.11n(HT20)	2437.00	89.55	0.48
NVNT	ANT1	802.11n(HT20)	2462.00	90.91	0.41
NVNT	ANT1	802.11n(HT40)	2422.00	78.38	1.06
NVNT	ANT1	802.11n(HT40)	2437.00	83.78	0.77
NVNT	ANT1	802.11n(HT40)	2452.00	81.08	0.91
NVNT	ANT1	802.11ax(HE20)	2412.00	90.91	0.41
NVNT	ANT1	802.11ax(HE20)	2437.00	90.91	0.41
NVNT	ANT1	802.11ax(HE20)	2462.00	89.55	0.48
NVNT	ANT1	802.11ax(HE40)	2422.00	81.08	0.91
NVNT	ANT1	802.11ax(HE40)	2437.00	81.08	0.91
NVNT	ANT1	802.11ax(HE40)	2452.00	81.08	0.91

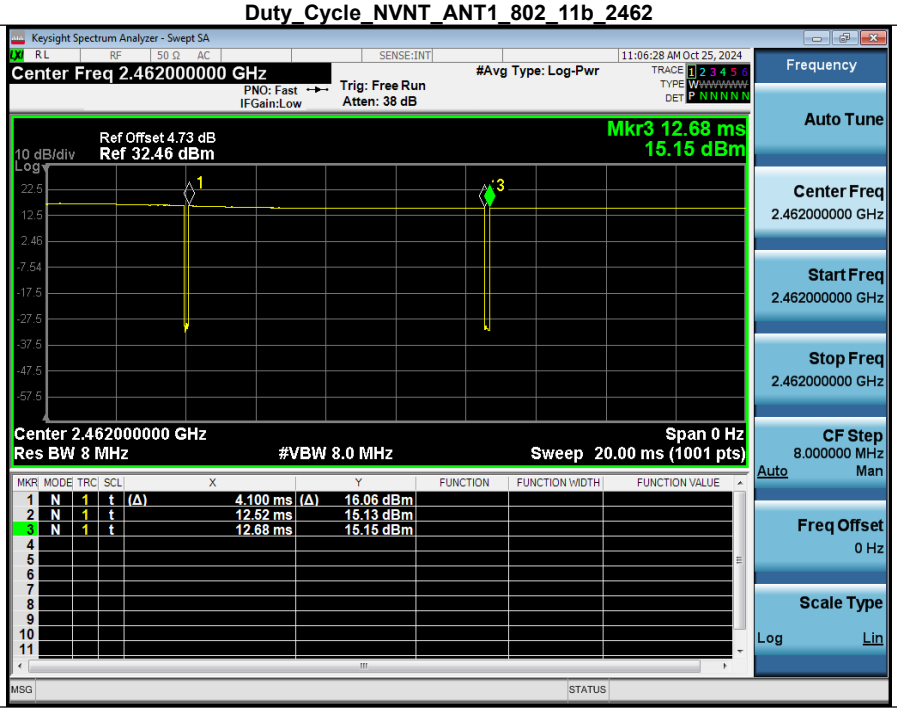
Duty_Cycle_NVNT_ANT1_802_11b_2412



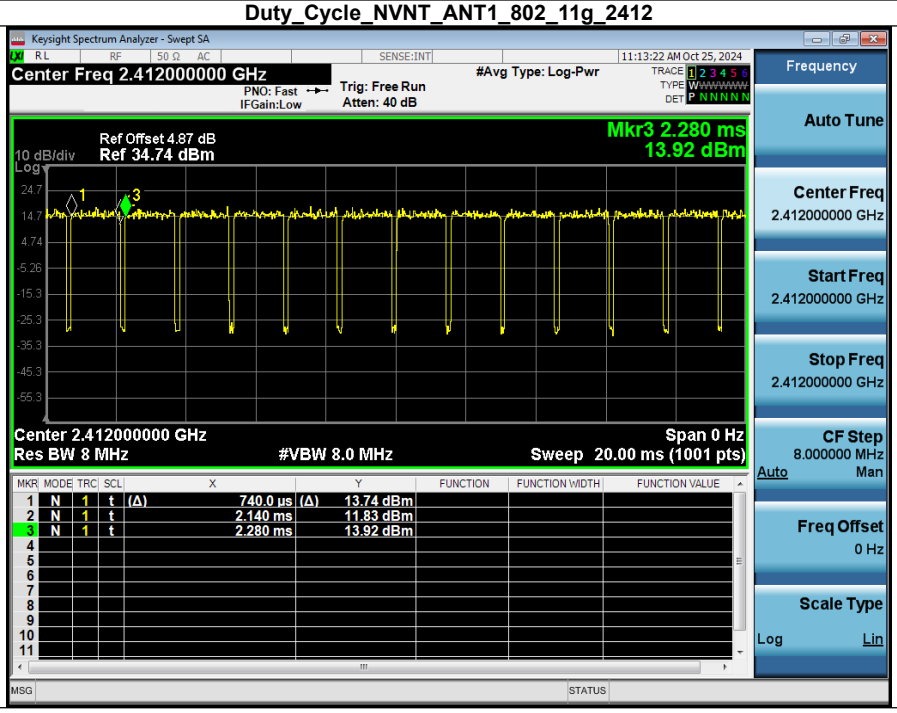
Duty_Cycle_NVNT_ANT1_802_11b_2437



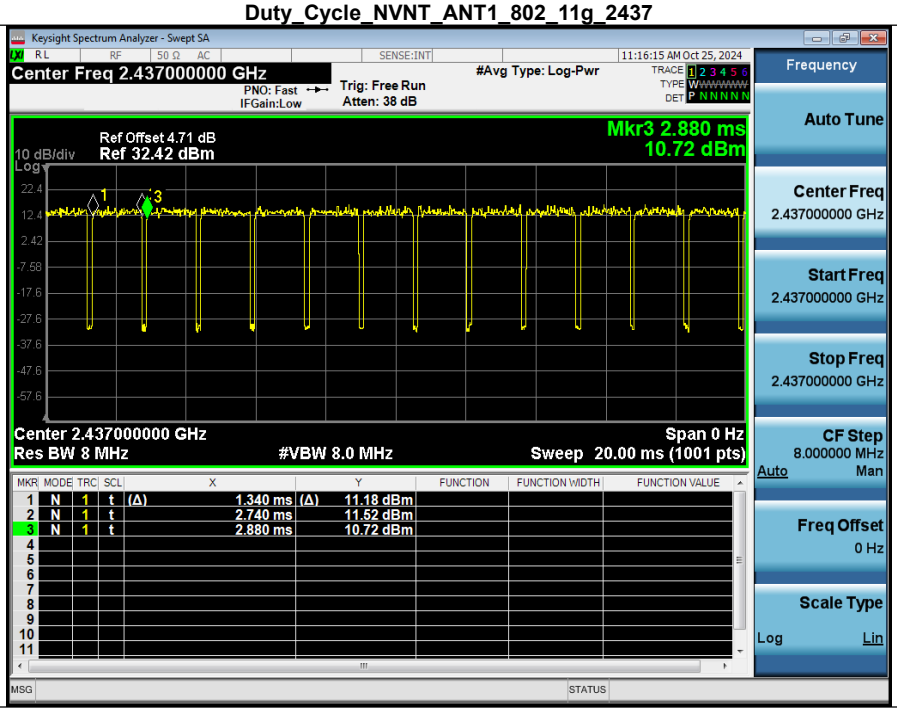
Duty_Cycle_NVNT_ANT1_802_11b_2462



Duty_Cycle_NVNT_ANT1_802_11g_2412



Duty_Cycle_NVNT_ANT1_802_11g_2437



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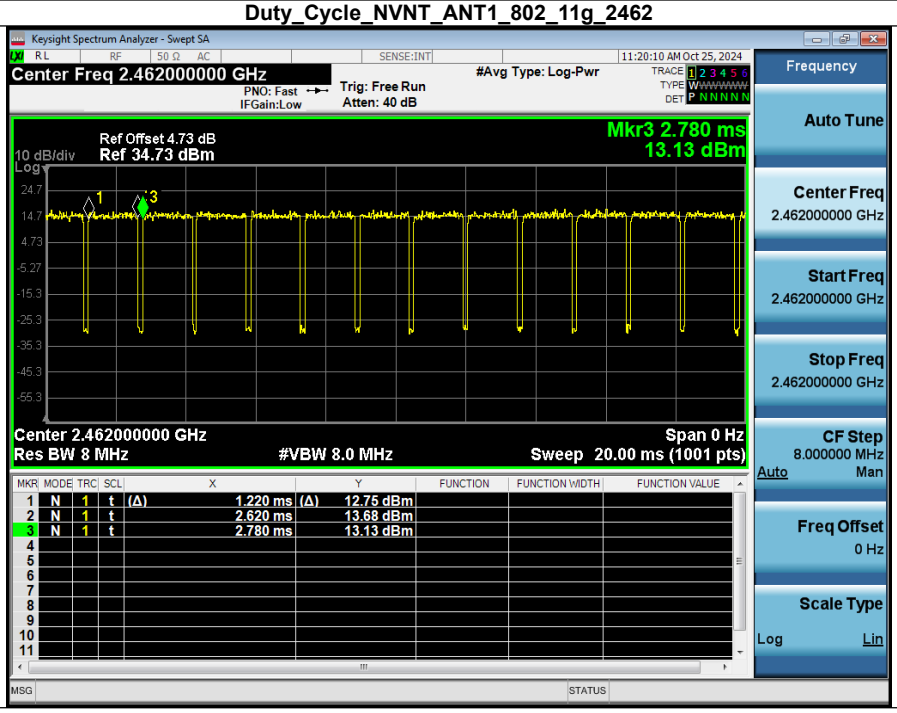
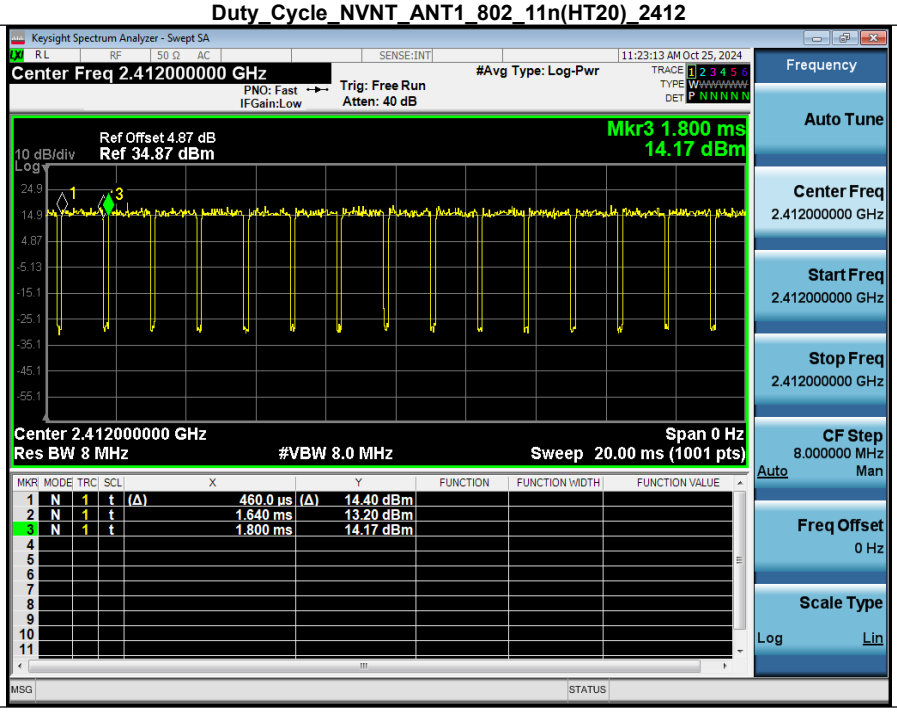


Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



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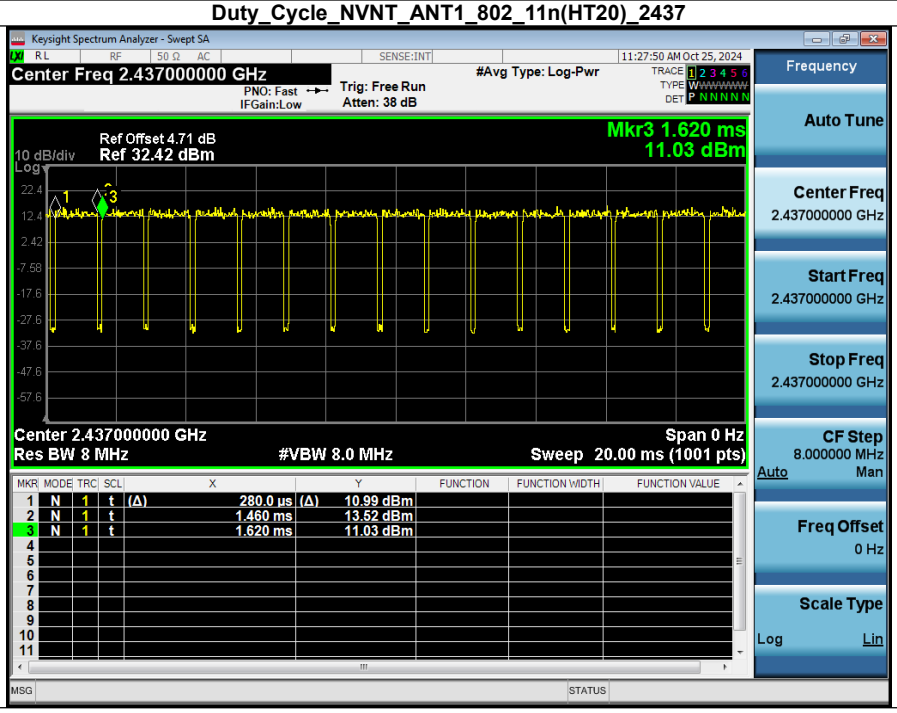

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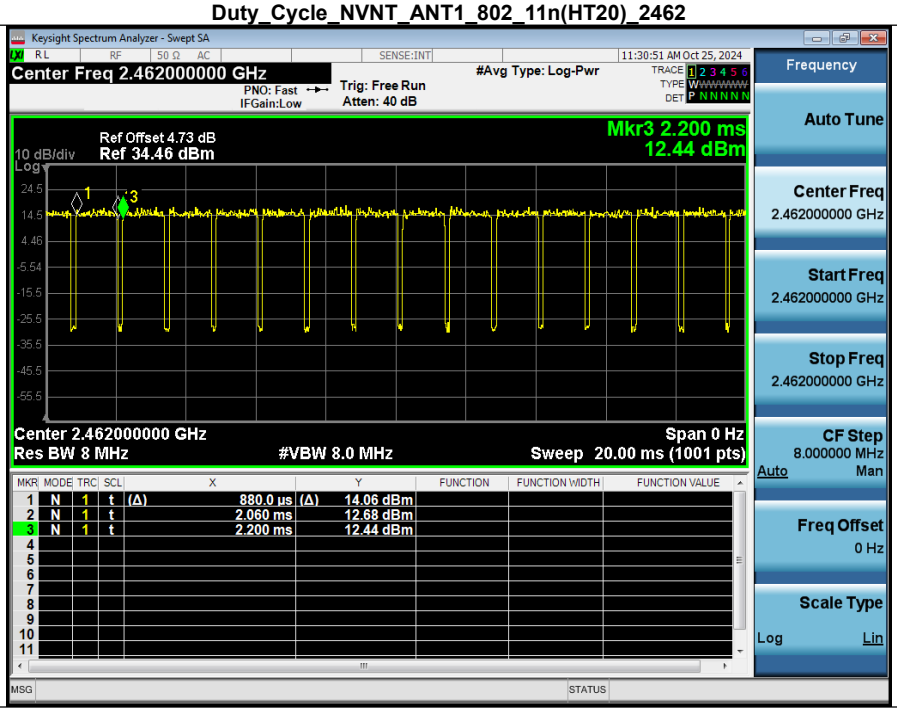

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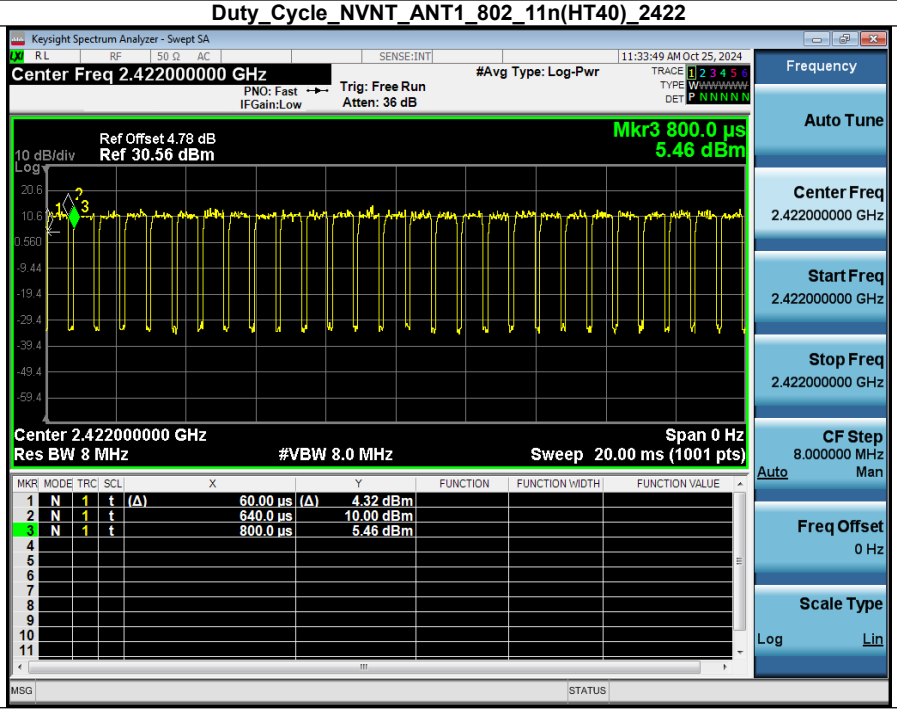
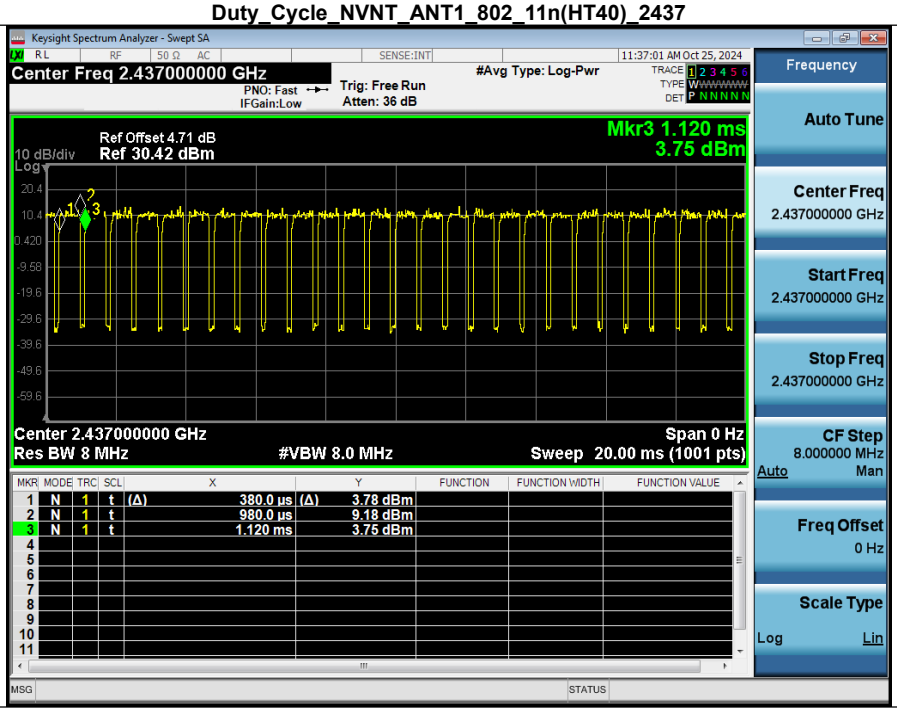


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



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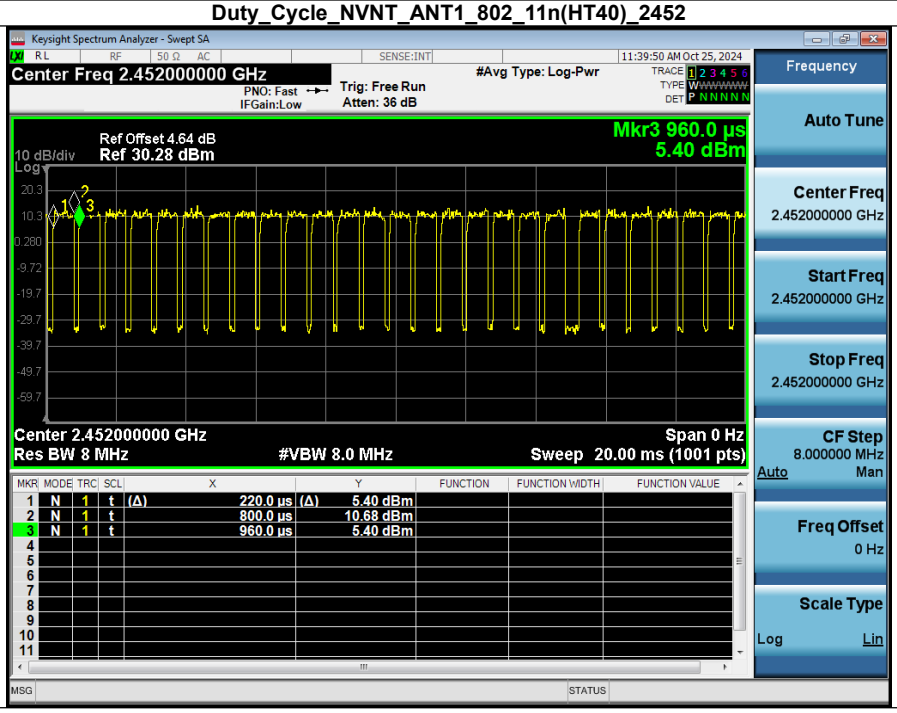
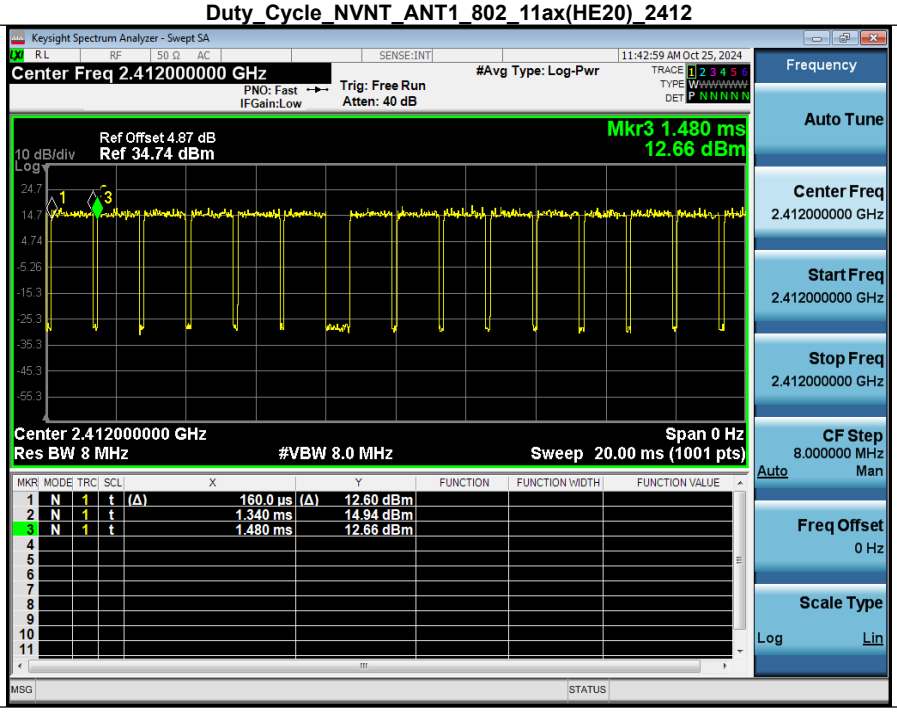
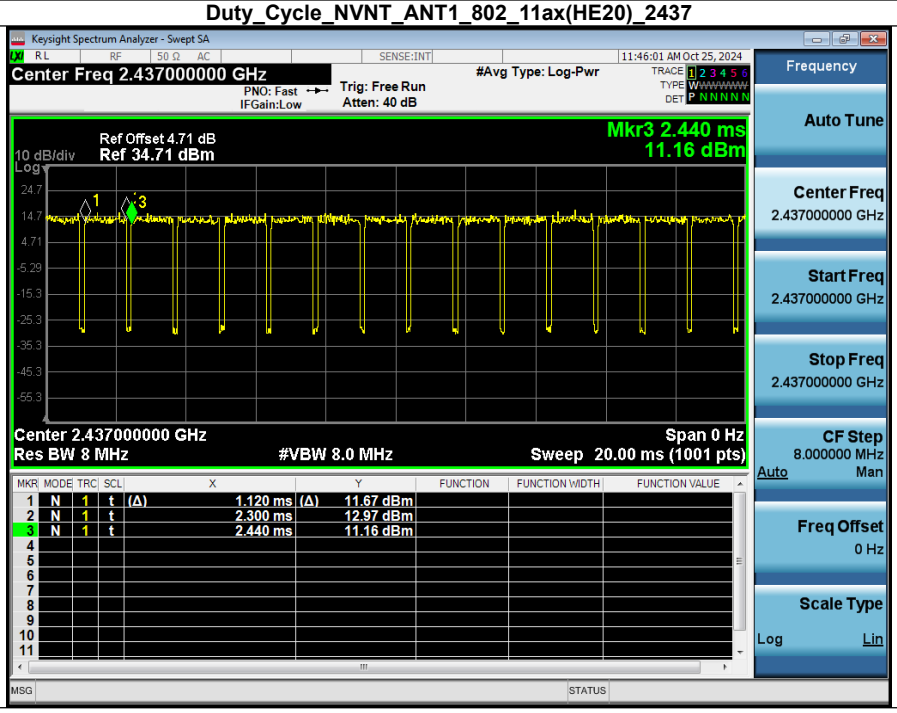


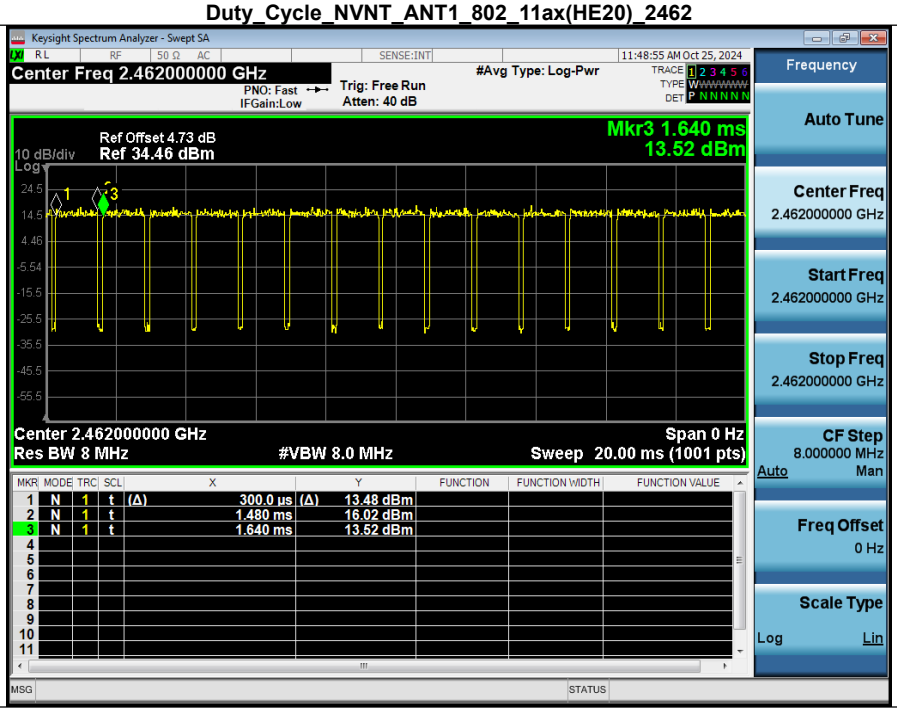
Duty_Cycle_NVNT_ANT1_802_11ax(HE20)_2412



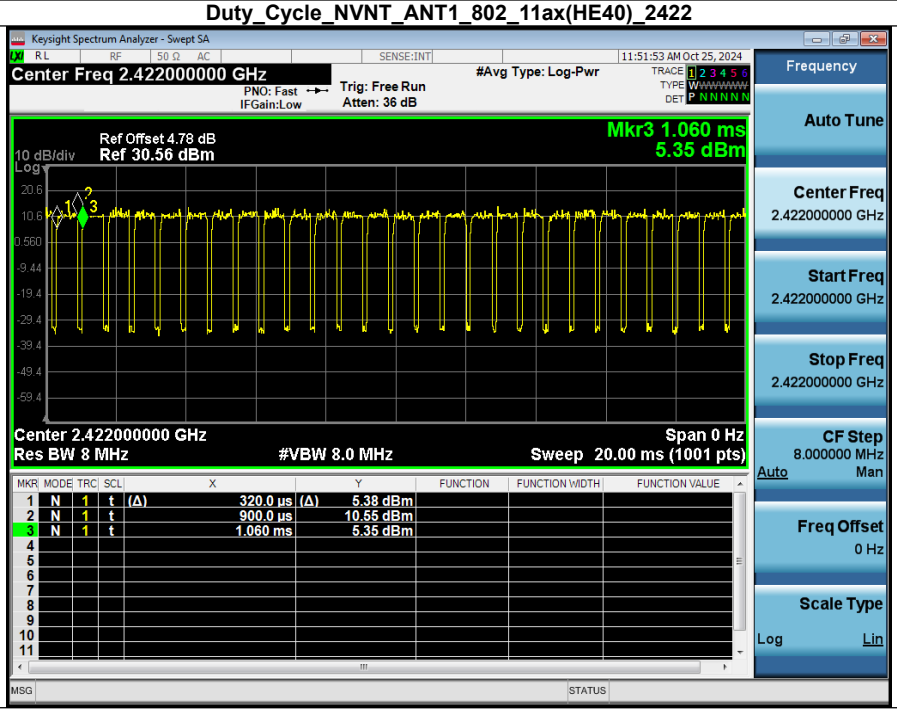
Duty_Cycle_NVNT_ANT1_802_11ax(HE20)_2437



Duty_Cycle_NVNT_ANT1_802_11ax(HE20)_2462



Duty_Cycle_NVNT_ANT1_802_11ax(HE40)_2422



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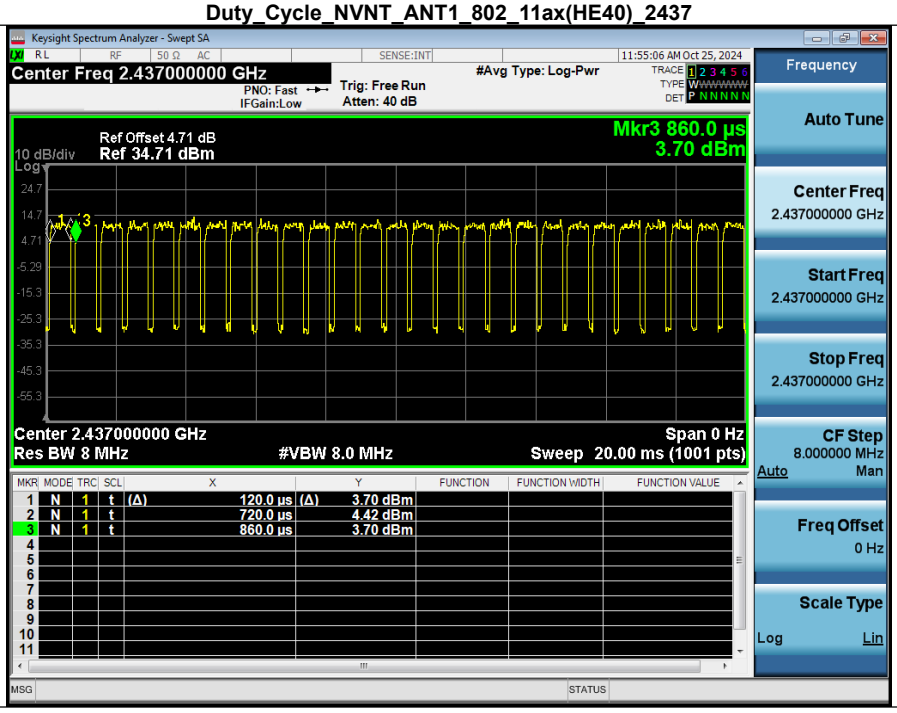
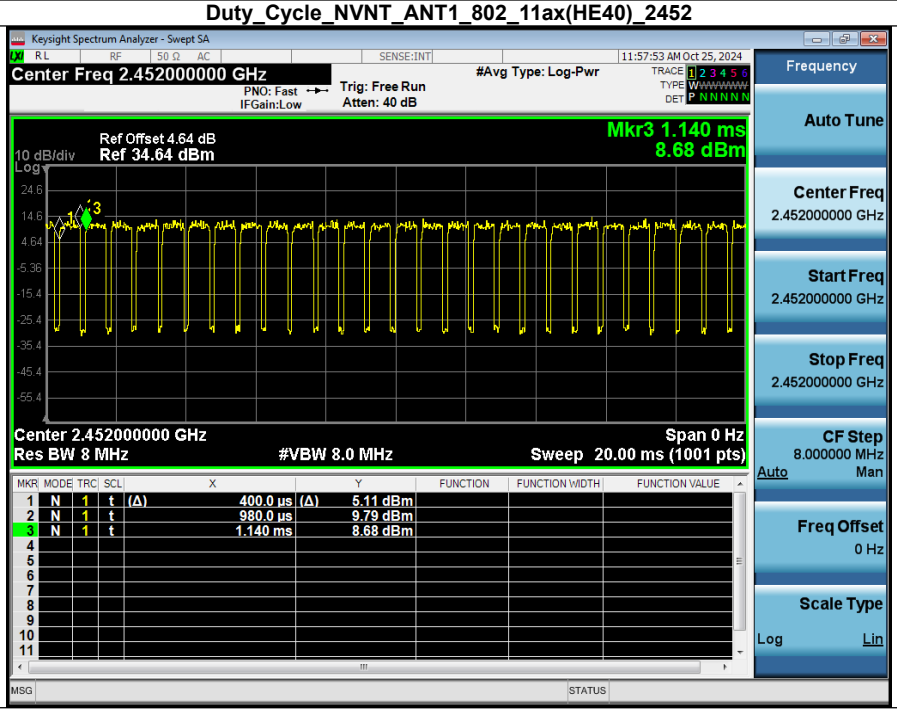


Duty_Cycle_NVNT_ANT1_802_11ax(HE40)_2452



4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Peak conducted output power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	15.16	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	12.71	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	14.51	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	19.08	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	16.98	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	18.87	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	19.70	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	17.43	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	19.32	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	17.97	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	17.86	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	18.26	30	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	Peak	19.55	30	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	Peak	17.46	30	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	Peak	19.42	30	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	Peak	18.06	30	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	Peak	17.84	30	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	Peak	18.23	30	Pass

5. Power Spectral Density

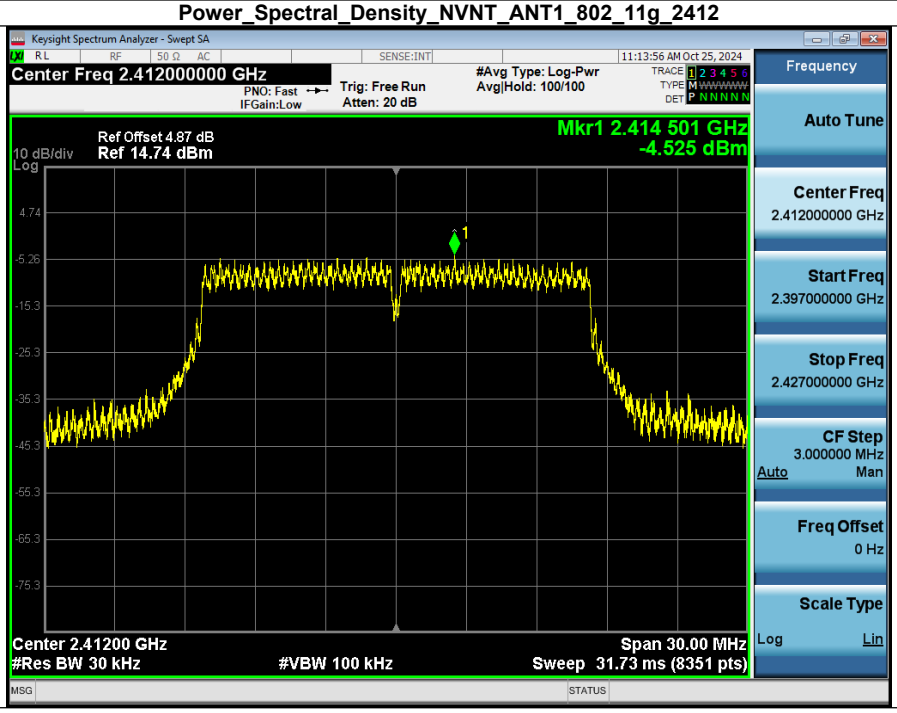
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-0.50	N/A	-10.00	-10.50	8	Pass
NVNT	ANT1	802.11b	2437.00	-2.68	N/A	-10.00	-12.68	8	Pass
NVNT	ANT1	802.11b	2462.00	-1.22	N/A	-10.00	-11.22	8	Pass
NVNT	ANT1	802.11g	2412.00	-4.53	N/A	-10.00	-14.53	8	Pass
NVNT	ANT1	802.11g	2437.00	-6.45	N/A	-10.00	-16.45	8	Pass
NVNT	ANT1	802.11g	2462.00	-3.83	N/A	-10.00	-13.83	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-3.82	N/A	-10.00	-13.82	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-6.24	N/A	-10.00	-16.24	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-4.64	N/A	-10.00	-14.64	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-8.71	N/A	-10.00	-18.71	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-9.17	N/A	-10.00	-19.17	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-8.82	N/A	-10.00	-18.82	8	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	-4.33	N/A	-10.00	-14.33	8	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	-6.73	N/A	-10.00	-16.73	8	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	-4.51	N/A	-10.00	-14.51	8	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	-9.06	N/A	-10.00	-19.06	8	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	-9.17	N/A	-10.00	-19.17	8	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	-8.88	N/A	-10.00	-18.88	8	Pass

Power_Spectral_Density_NVNT_ANT1_802_11b_2412

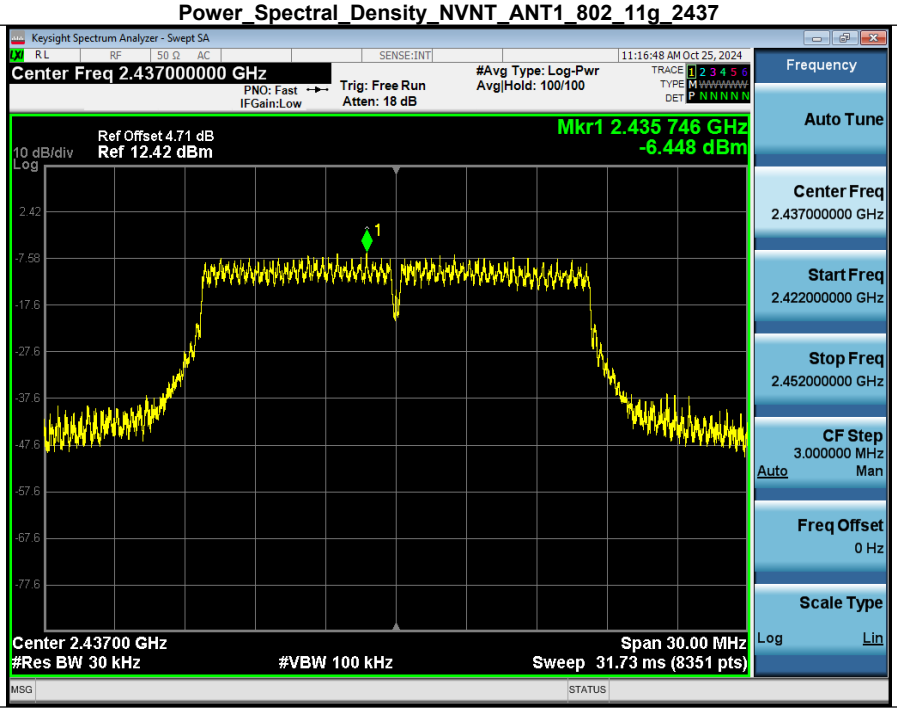
Power_Spectral_Density_NVNT_ANT1_802_11b_2437

Power_Spectral_Density_NVNT_ANT1_802_11b_2462

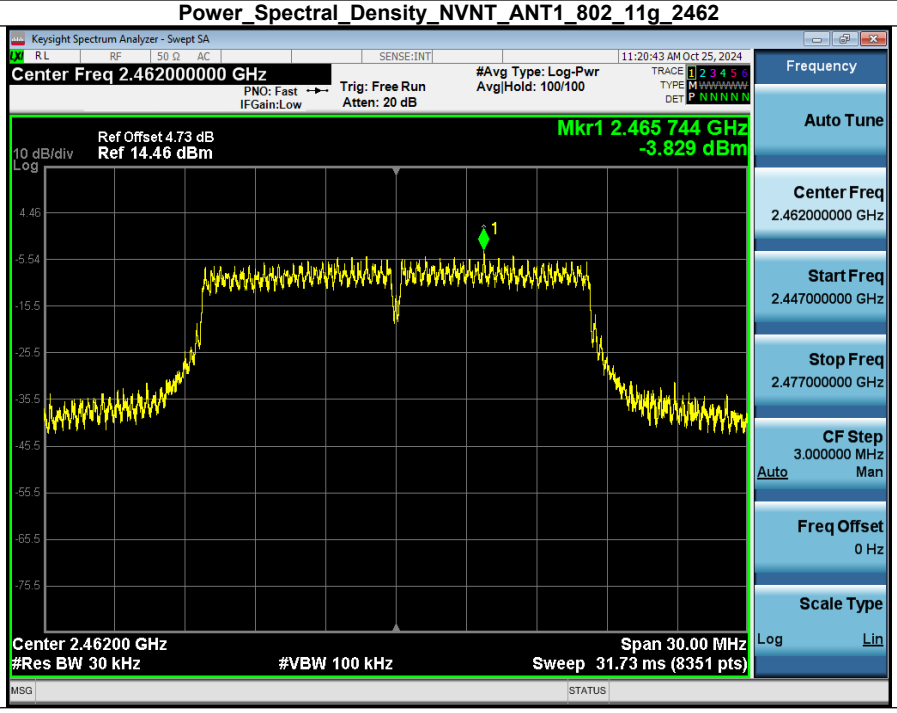
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



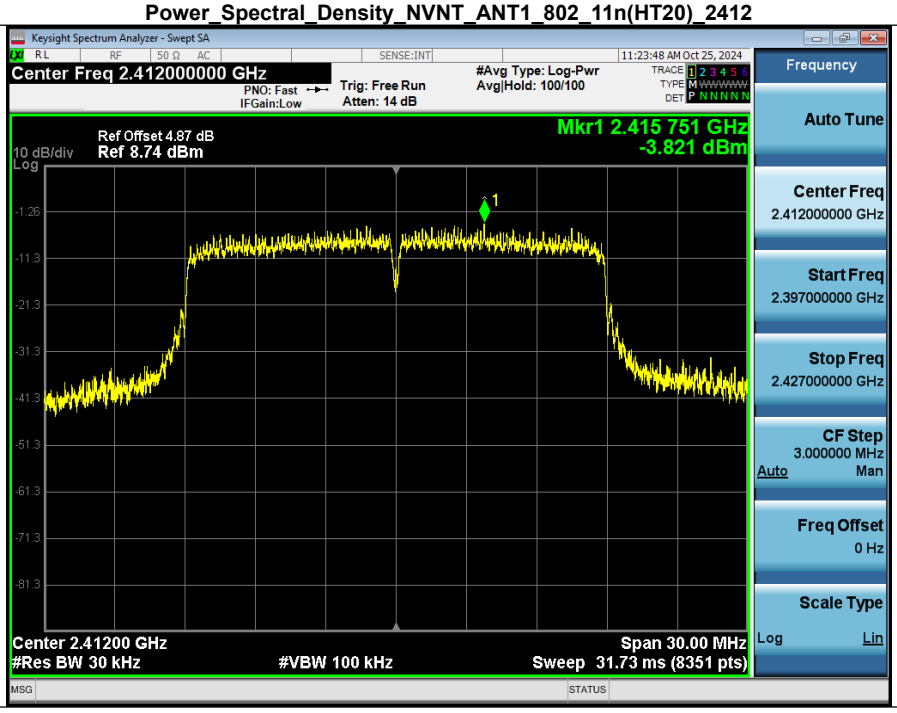
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



Power_Spectral_Density_NVNT_ANT1_802_11g_2462



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



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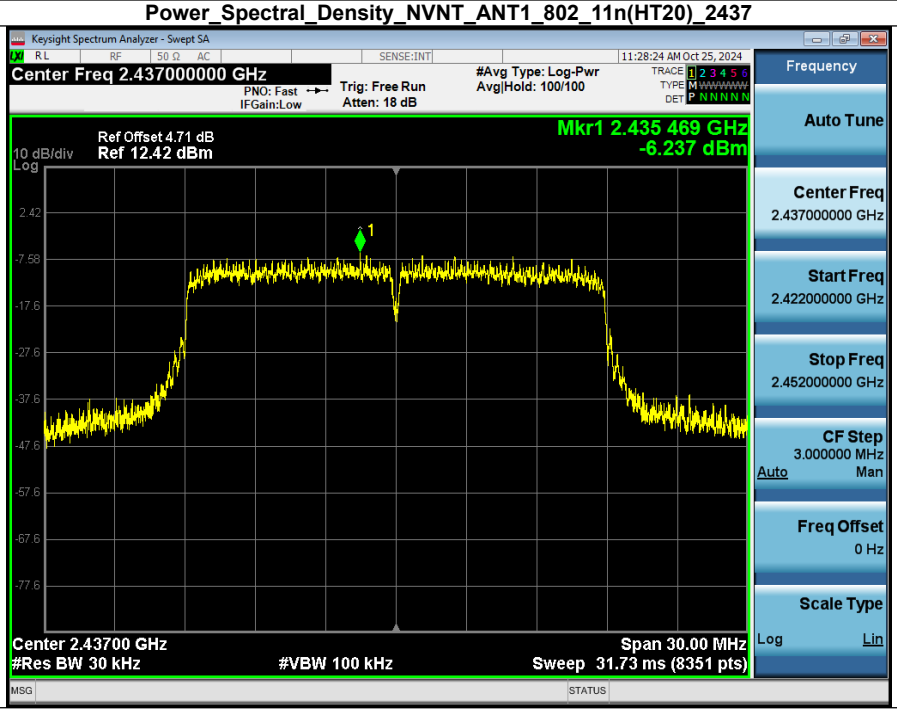

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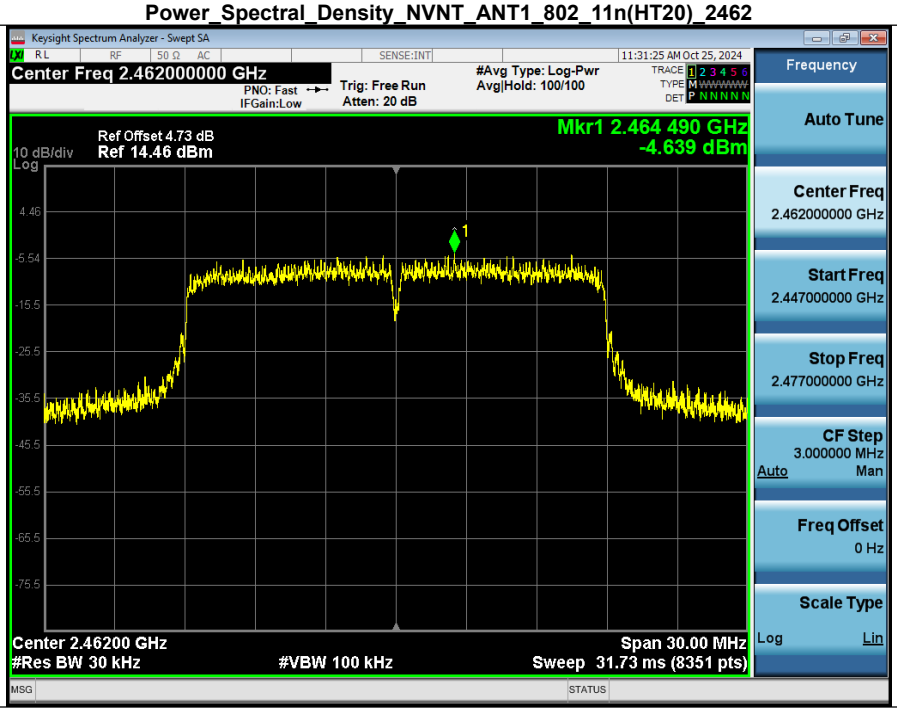
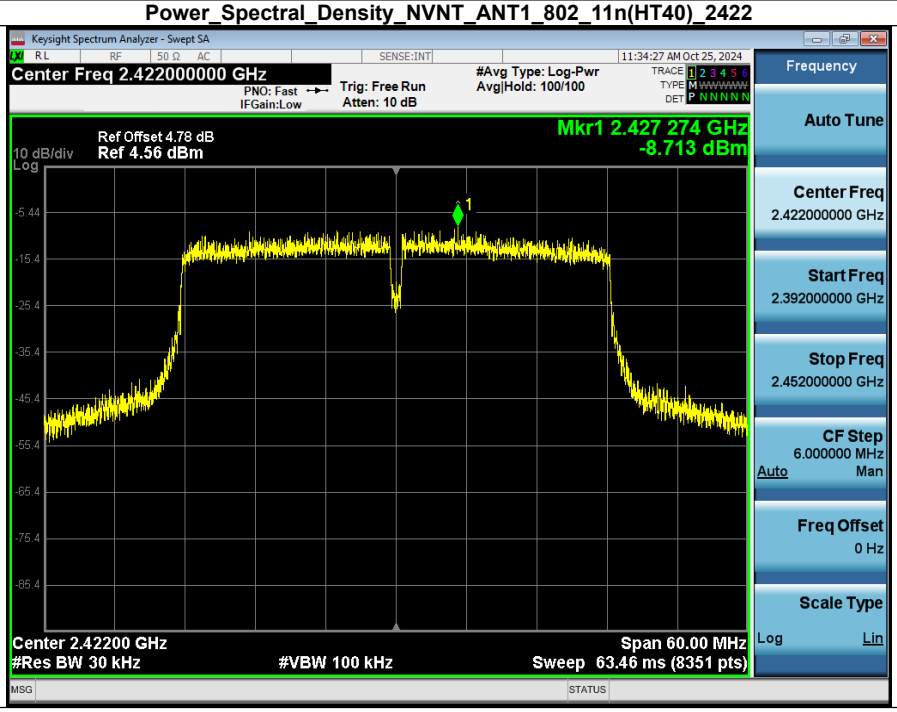


Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



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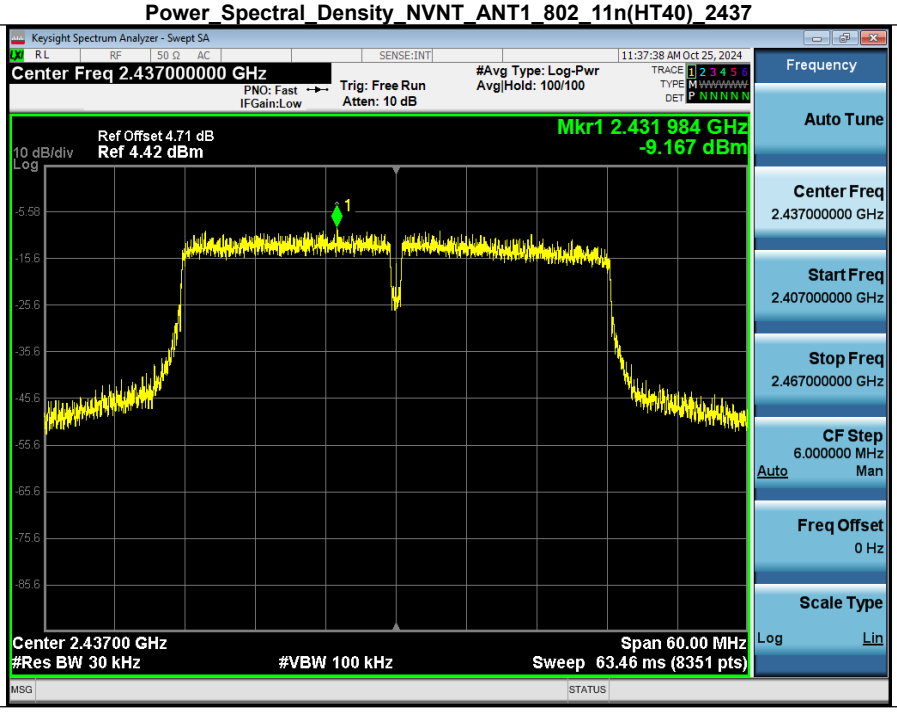

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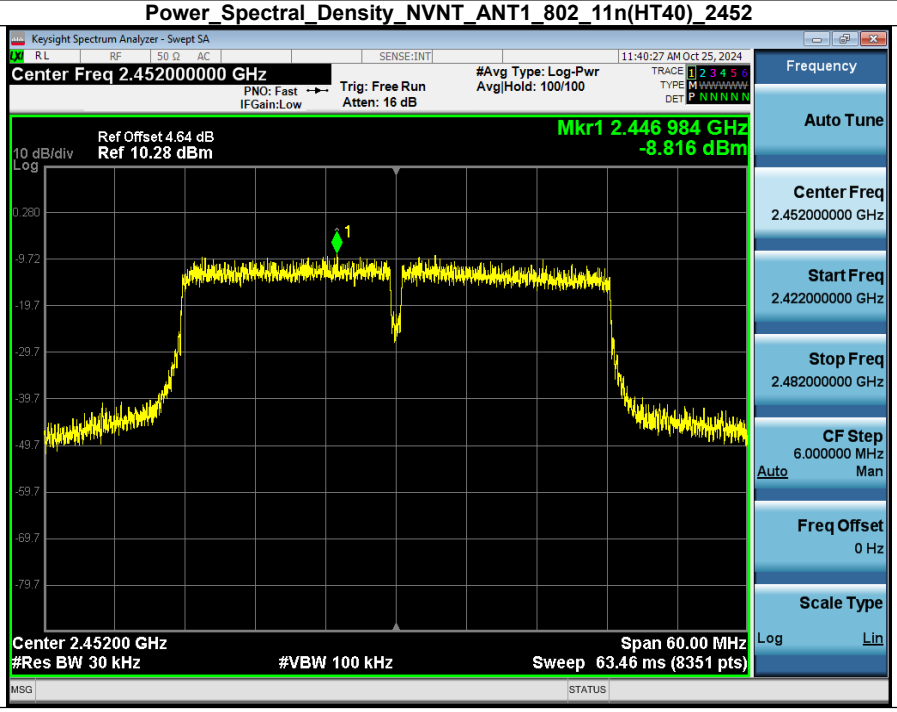
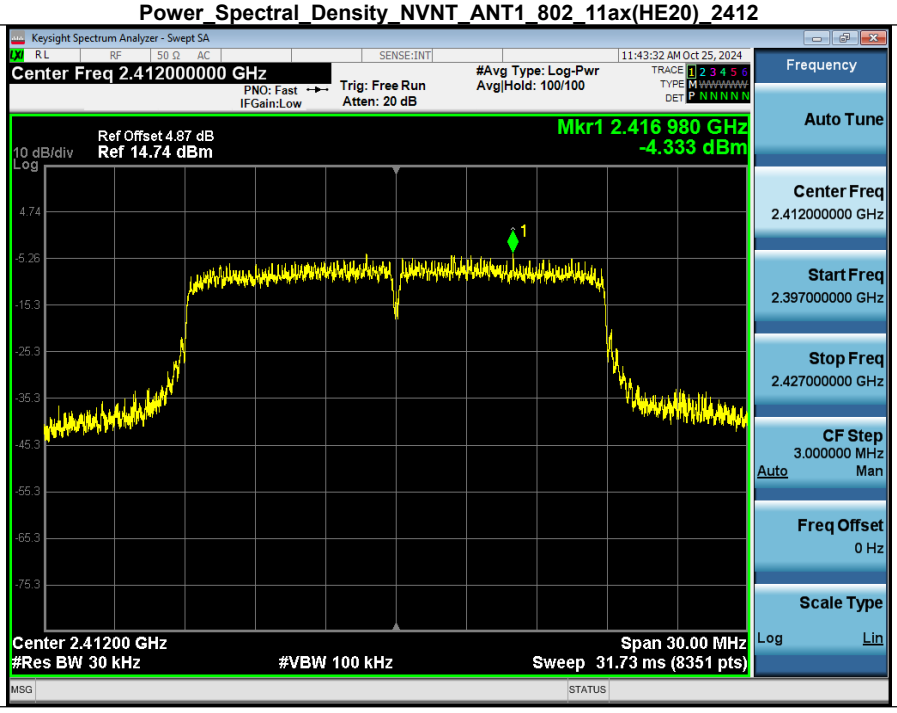


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_2412



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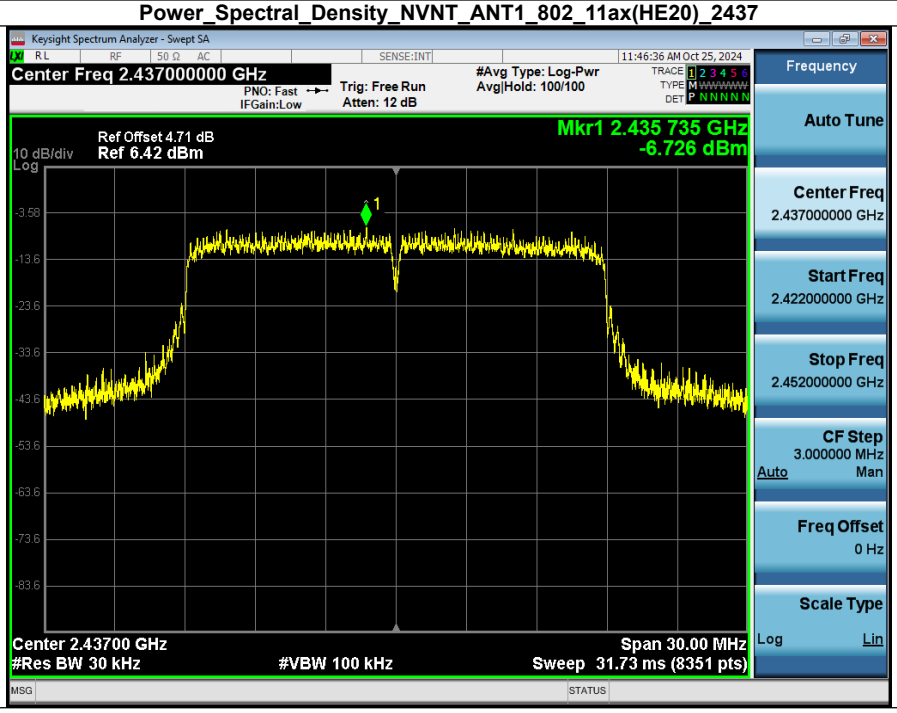

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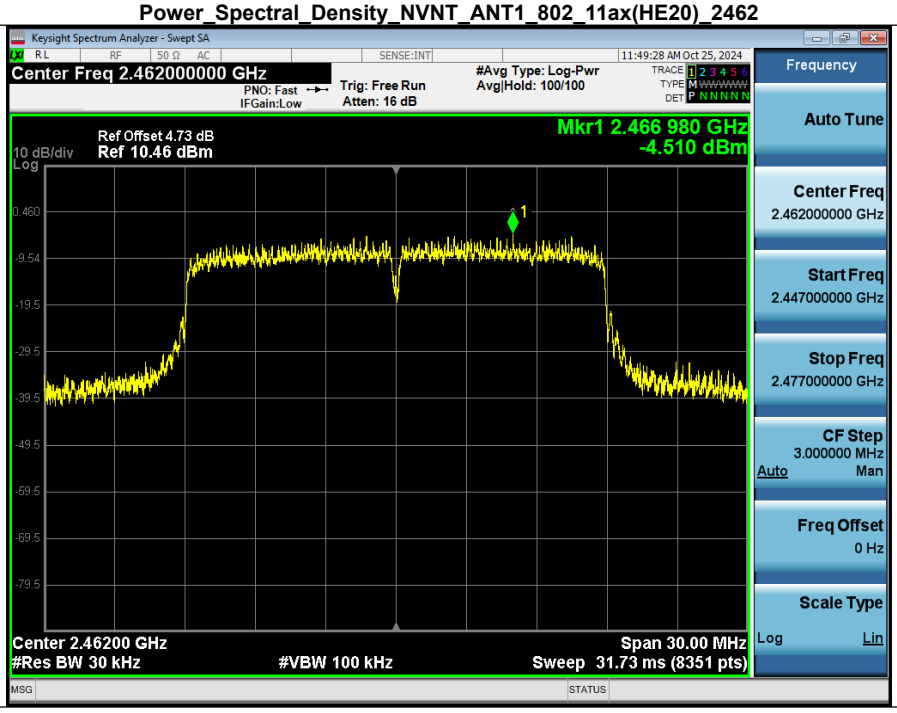

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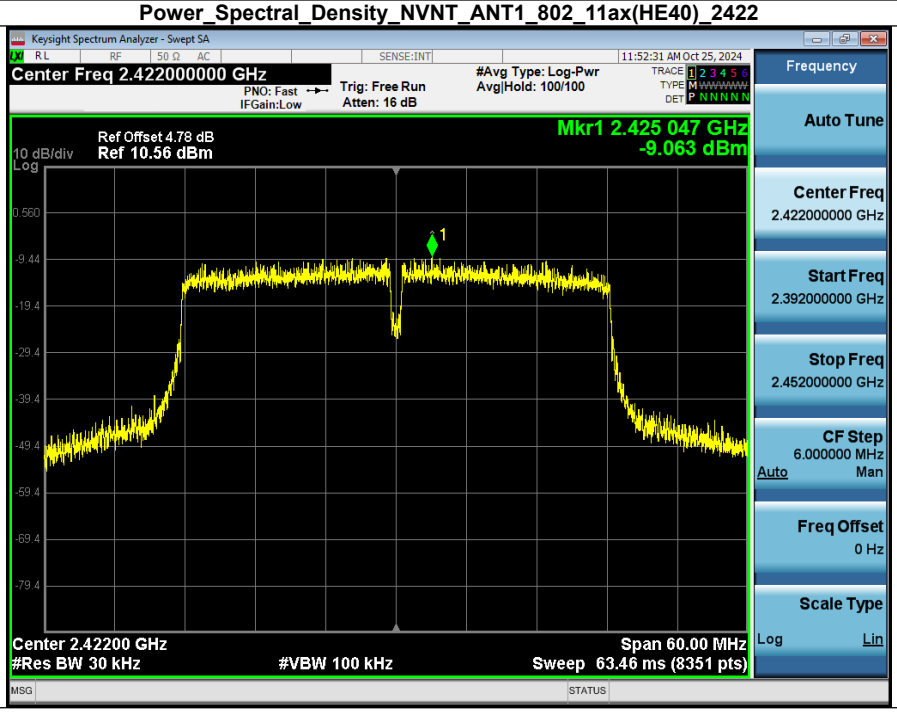

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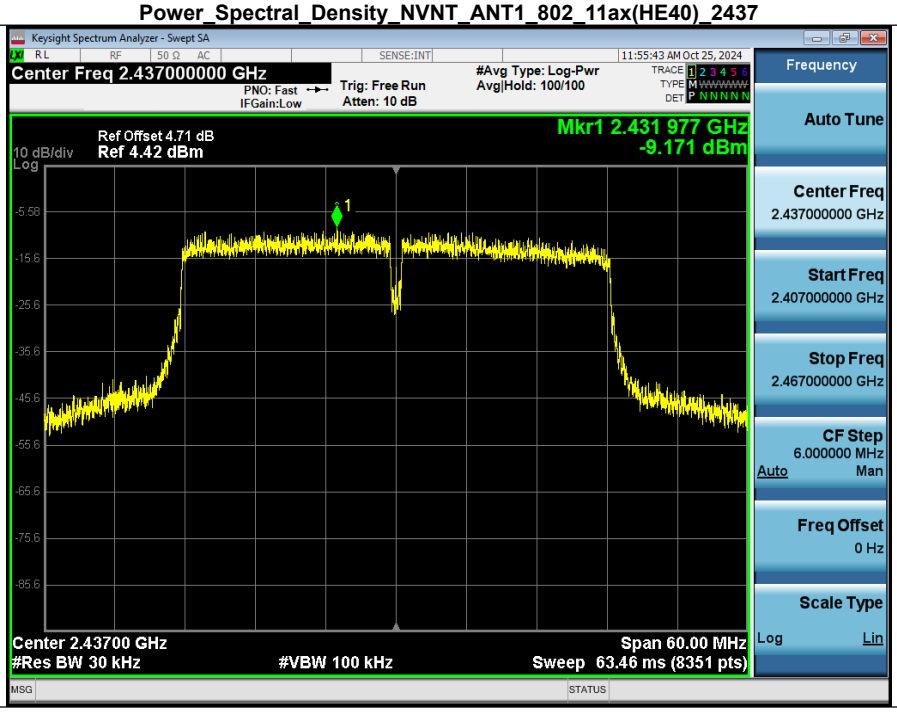
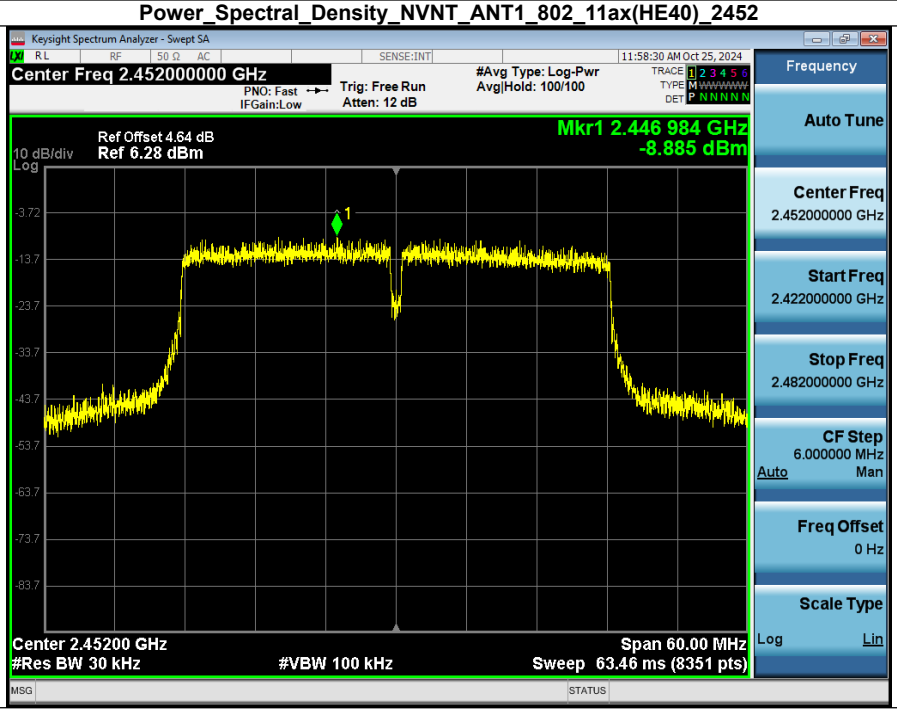


Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_2452

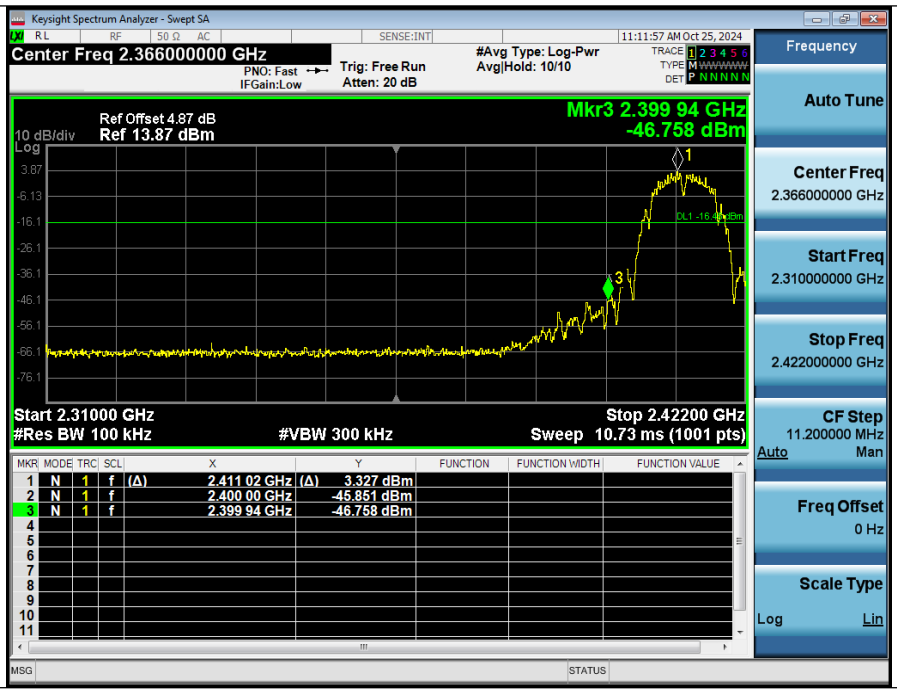


6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	-46.758	-16.460	Pass
NVNT	ANT1	802.11b	2462.00	2484.544	-52.996	-16.929	Pass
NVNT	ANT1	802.11g	2412.00	2398.032	-29.312	-20.225	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	-40.672	-20.198	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.600	-29.489	-19.657	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.208	-38.509	-20.282	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.892	-35.338	-24.312	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-40.016	-24.083	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	2399.264	-30.121	-19.859	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	2483.536	-38.639	-19.985	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	2399.760	-35.005	-24.427	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	2484.496	-39.998	-24.186	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

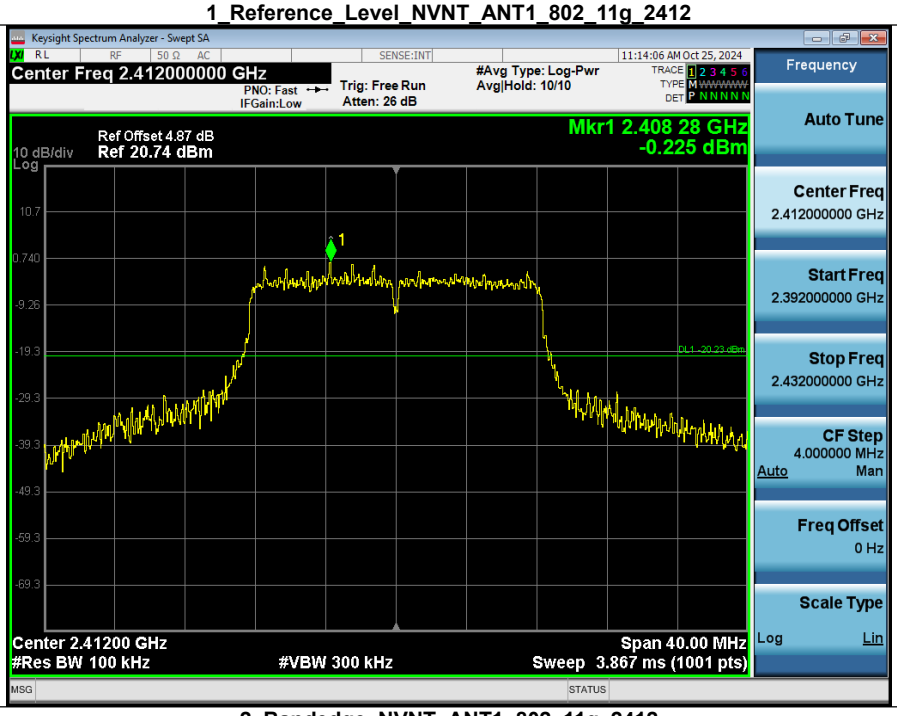
2_Bandedge_NVNT_ANT1_802_11b_2412



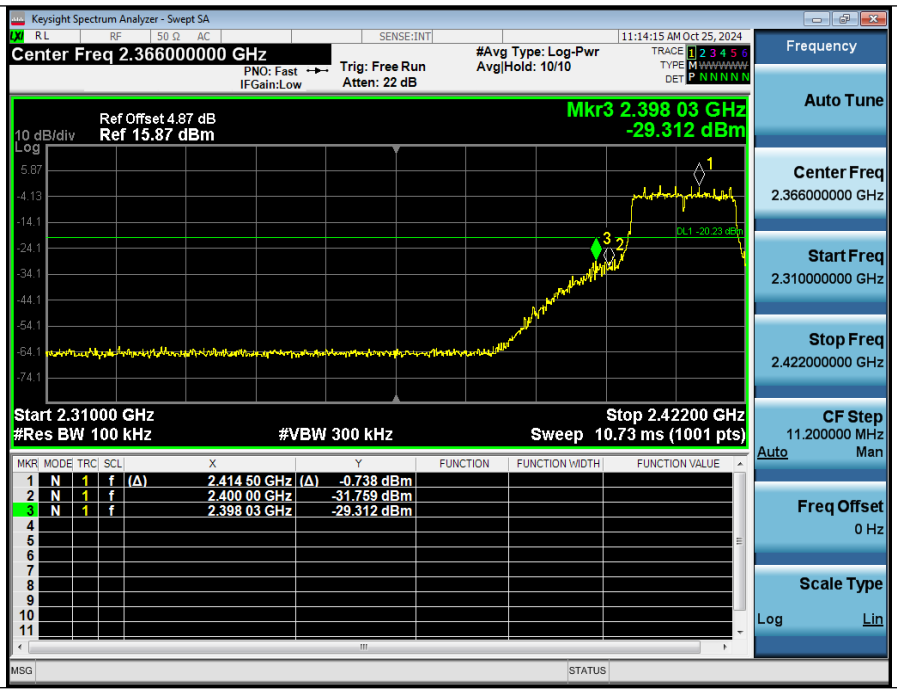
1_Reference_Level_NVNT_ANT1_802_11b_2462

2_Bandedge_NVNT_ANT1_802_11b_2462

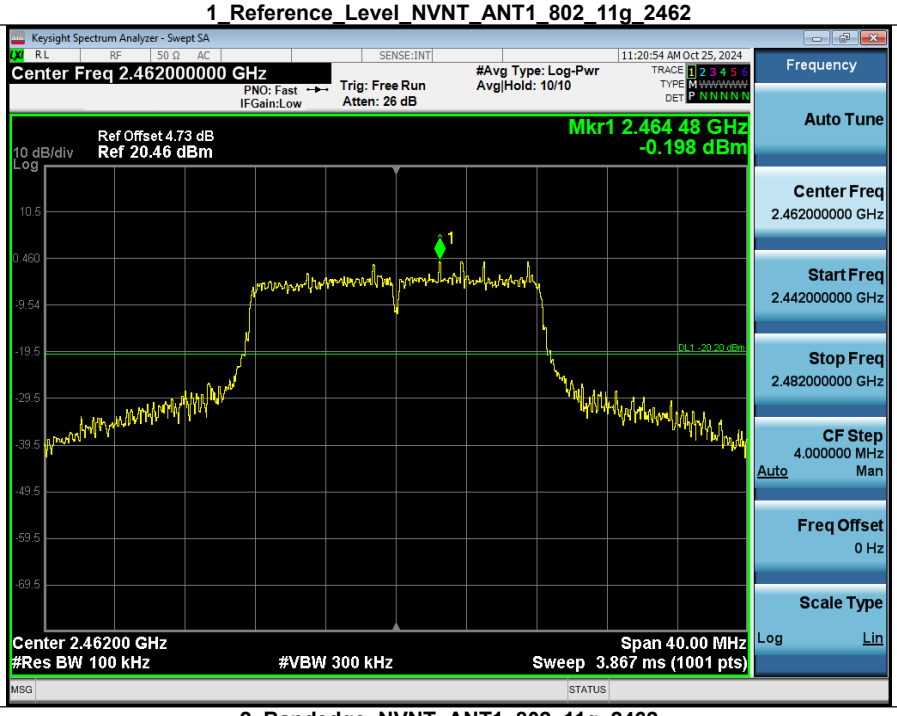
1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412

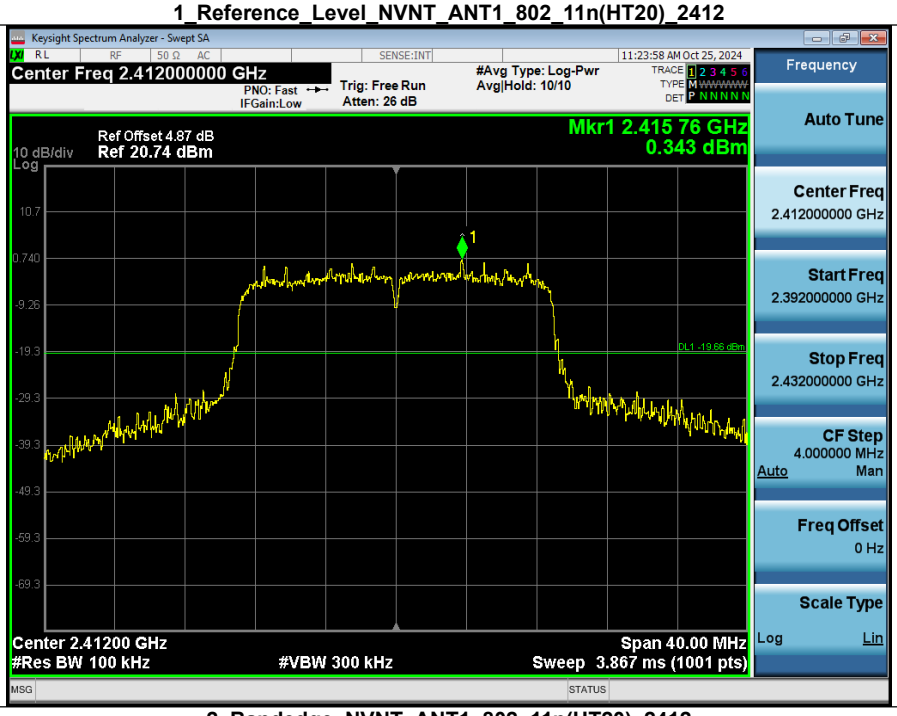


1_Reference_Level_NVNT_ANT1_802_11g_2462

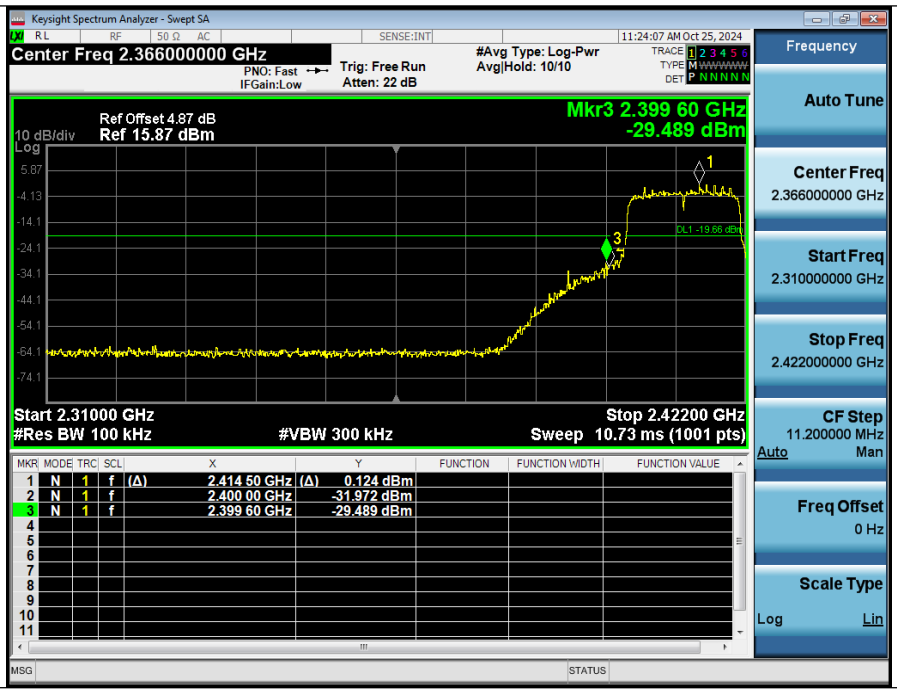


2_Bandedge_NVNT_ANT1_802_11g_2462

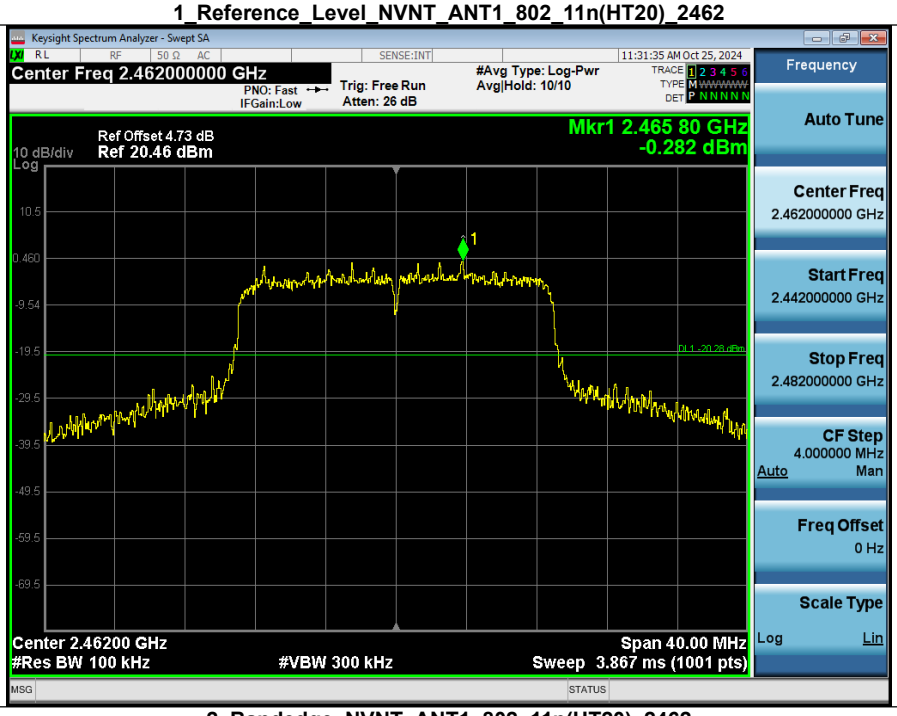
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412

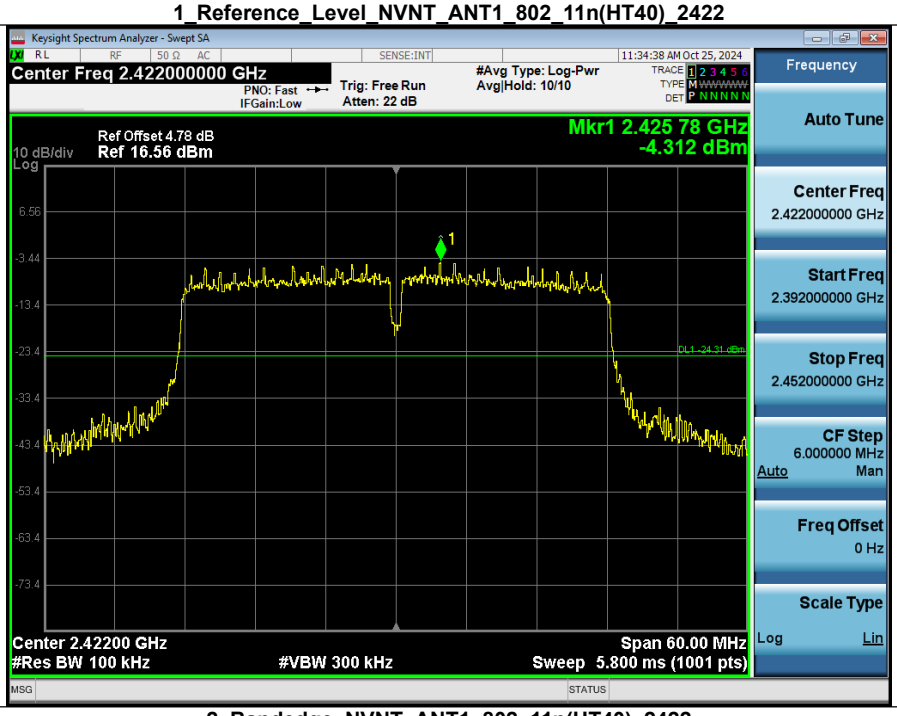


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462

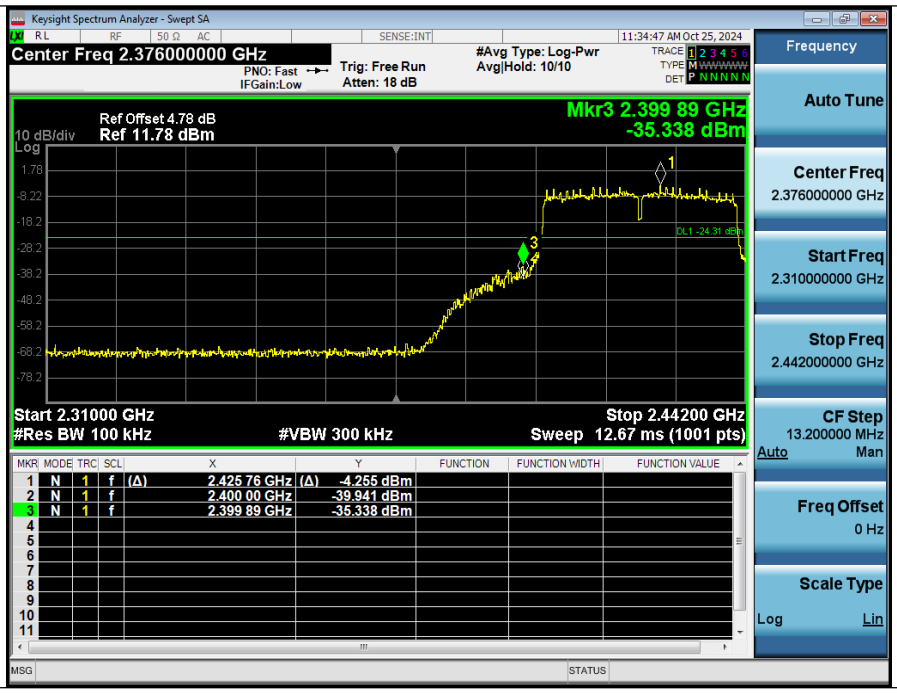


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462

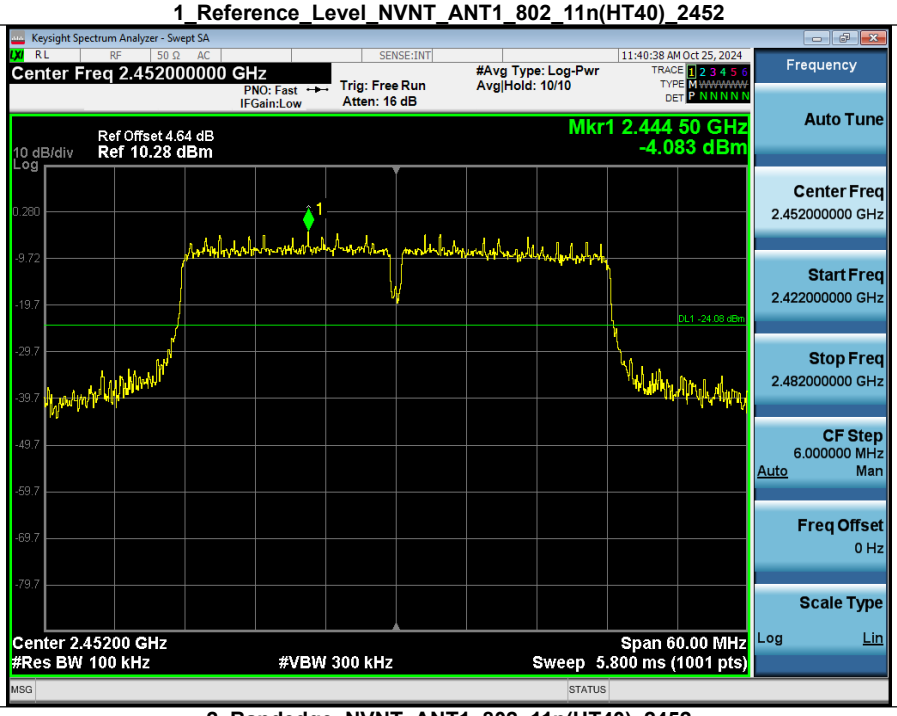
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422

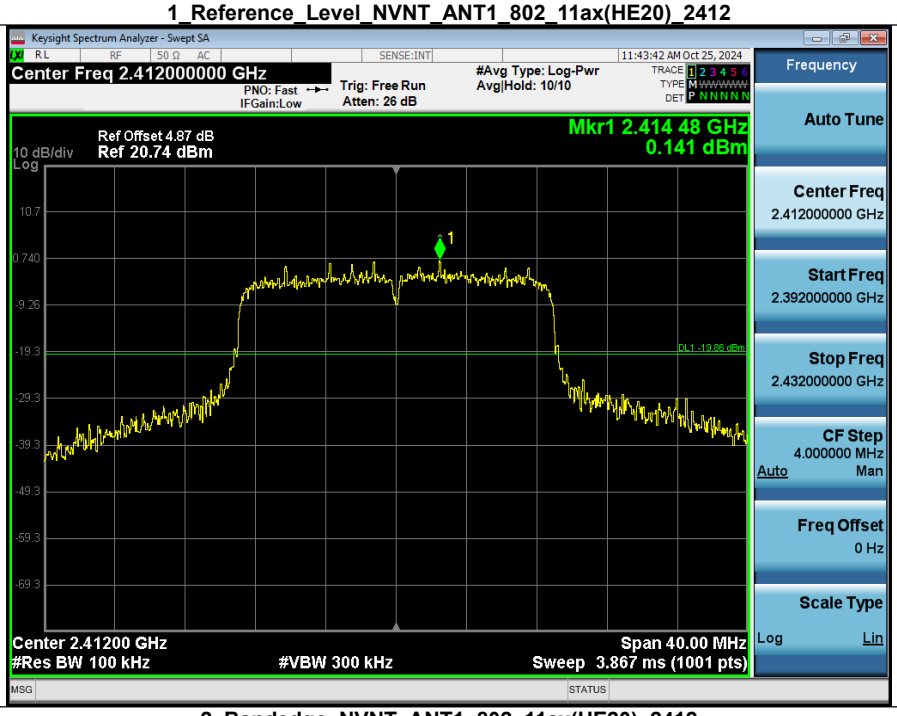


1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452

1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2412



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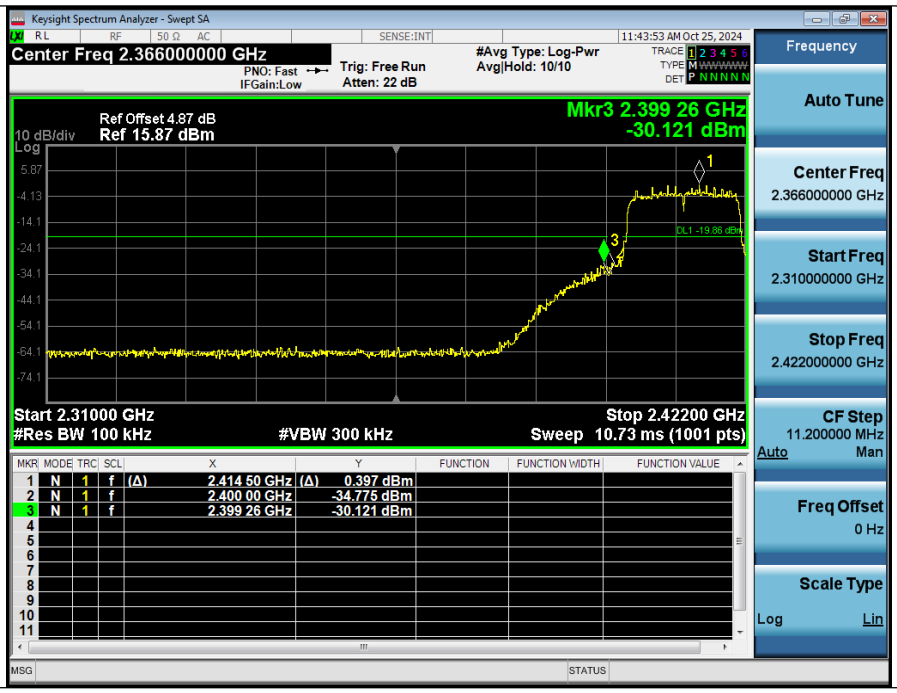

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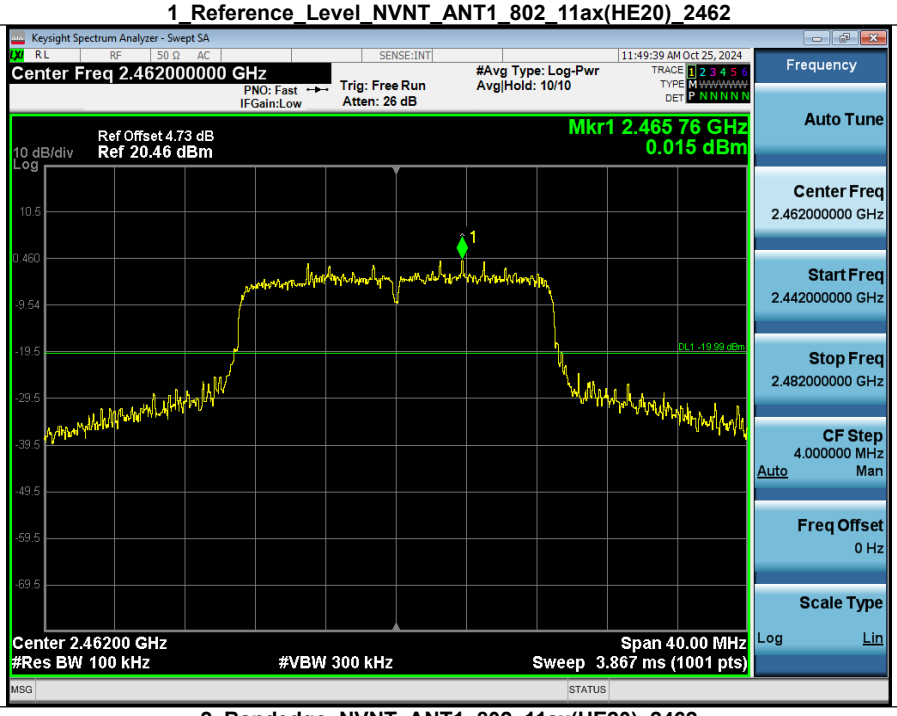
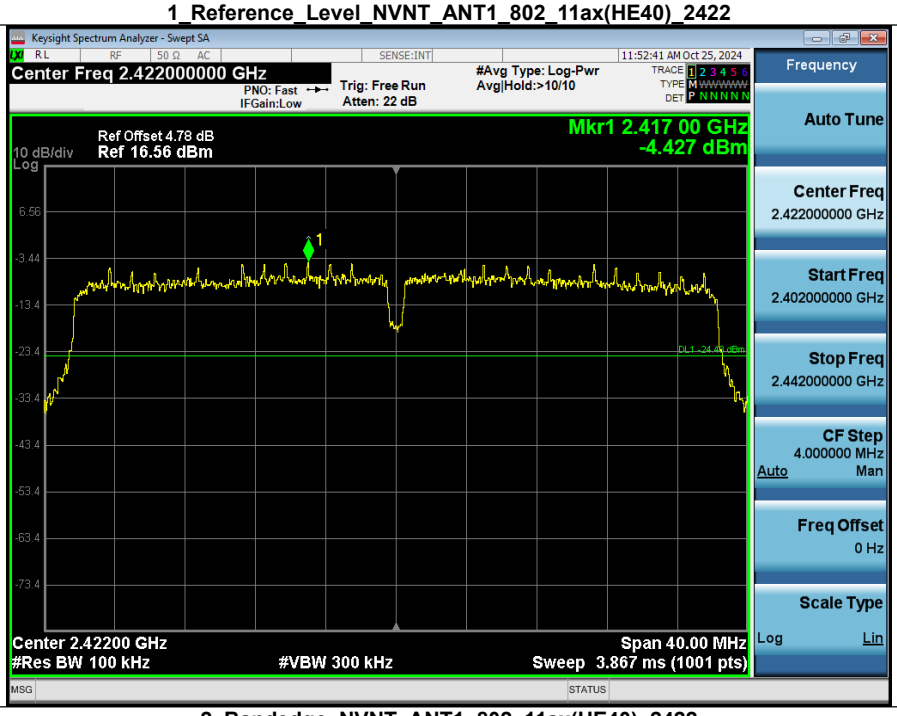


2_Bandedge_NVNT_ANT1_802_11ax(HE20)_2462

1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2422



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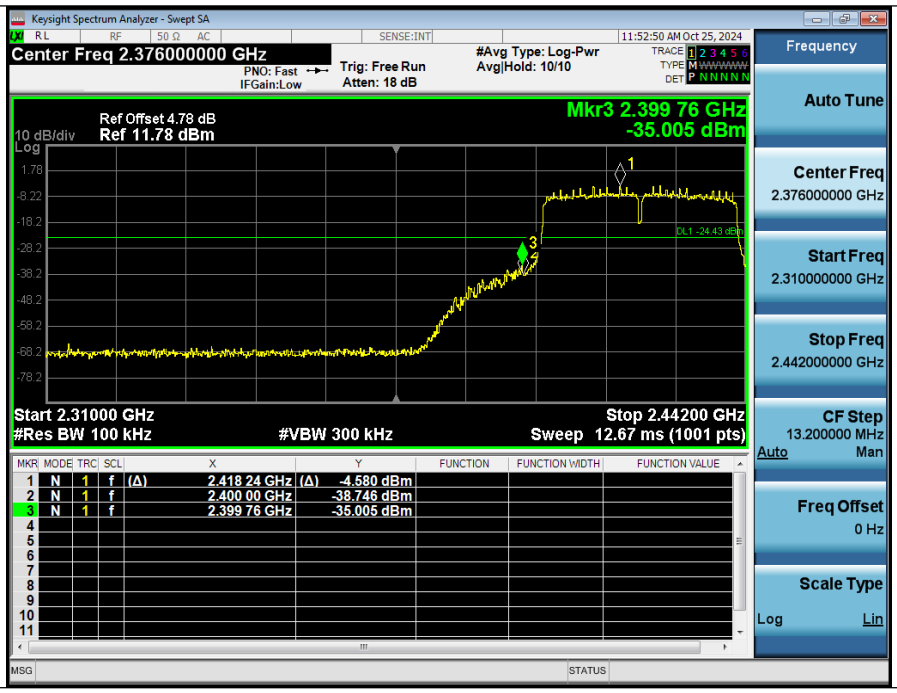
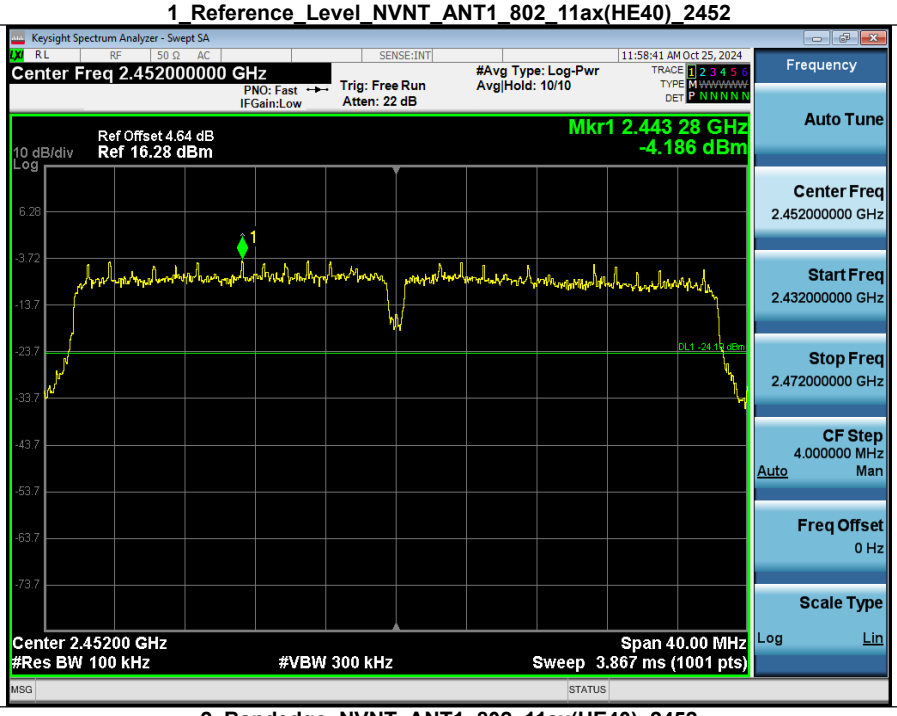


1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2452



2_Bandedge_NVNT_ANT1_802_11ax(HE40)_2452

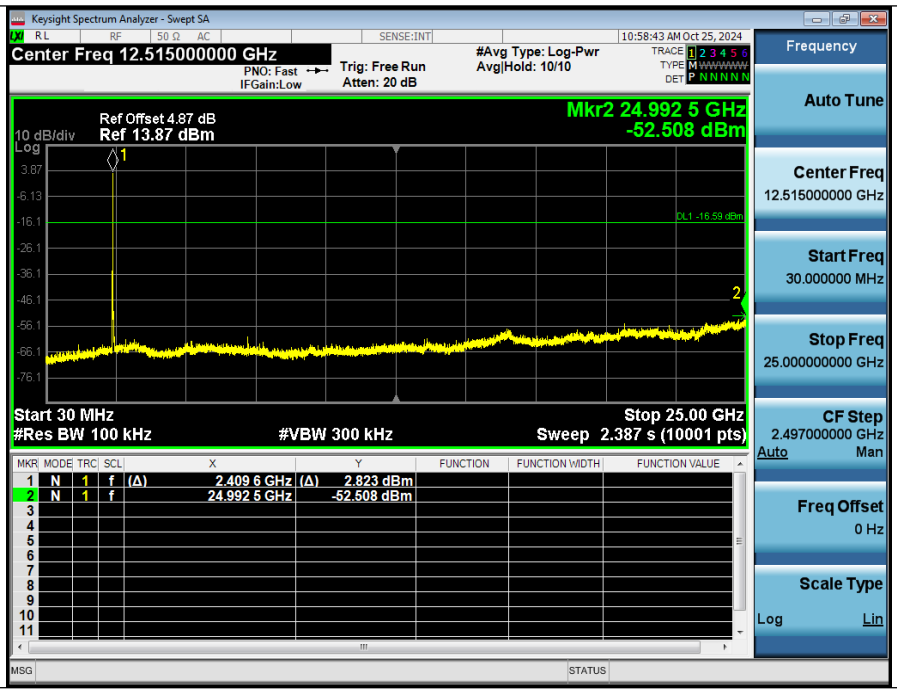
Keysight Spectrum Analyzer - Swept SA
Center Freq 2.466000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 18 dB
#Avg Type: Log-Pwr
Avg|Hold: 10/10
11:58:50 AM Oct 25, 2024
Ref Offset 4.64 dB
10 dB/div
Ref 11.64 dBm
Mkr3 2.484 496 GHz
-39.998 dBm
DL1 -24.19 dBm
Start 2.43200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.50000 GHz
Sweep 6.533 ms (1001 pts)
1 N 1 f (Δ) 2.444 512 GHz (Δ) -4.015 dBm
2 N 1 f 2.483 500 GHz -43.188 dBm
3 N 1 f 2.484 496 GHz -39.998 dBm
Frequency
Auto Tune
Center Freq
2.466000000 GHz
Start Freq
2.432000000 GHz
Stop Freq
2.500000000 GHz
CF Step
6.800000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

7. Spurious Emission

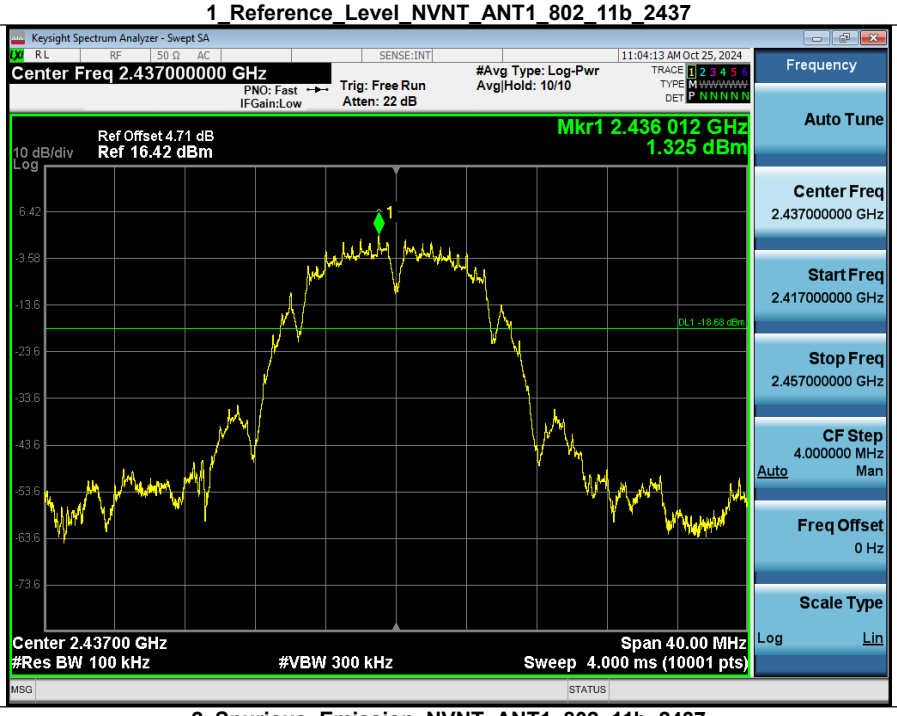
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24992.509	-52.508	-16.591	Pass
NVNT	ANT1	802.11b	2437.00	25000.000	-54.854	-18.675	Pass
NVNT	ANT1	802.11b	2462.00	24972.533	-53.160	-16.929	Pass
NVNT	ANT1	802.11g	2412.00	24970.036	-51.190	-20.225	Pass
NVNT	ANT1	802.11g	2437.00	24945.066	-52.626	-21.962	Pass
NVNT	ANT1	802.11g	2462.00	721.669	-45.799	-20.198	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24945.066	-50.759	-19.657	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24995.006	-58.997	-21.967	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24875.150	-51.114	-20.282	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24468.139	-54.667	-24.312	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24400.720	-61.929	-24.516	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24495.606	-61.217	-24.083	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	24947.563	-51.033	-19.859	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	24465.642	-52.835	-22.329	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	25000.000	-51.500	-19.985	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	24945.066	-55.338	-24.427	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	24980.024	-61.125	-24.479	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	24942.569	-54.824	-24.186	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

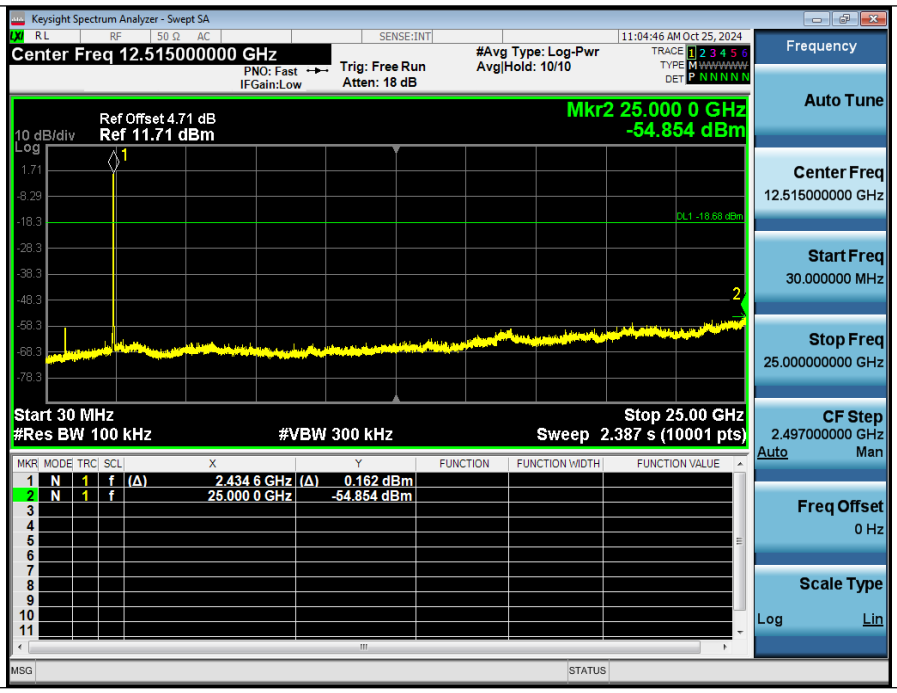
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



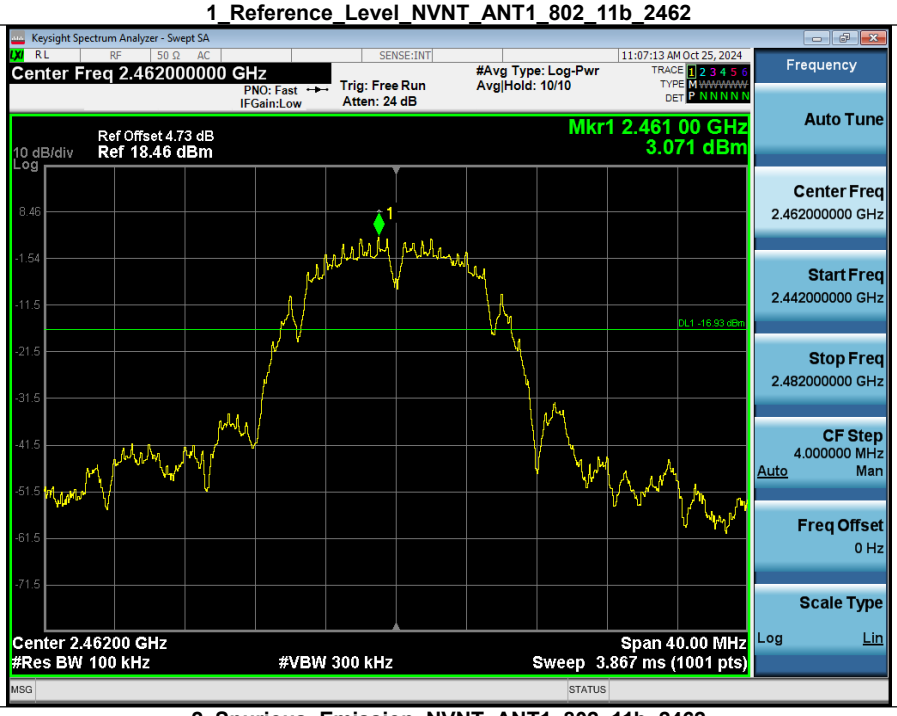
1_Reference_Level_NVNT_ANT1_802_11b_2437



2_Spurious_Emission_NVNT_ANT1_802_11b_2437



1_Reference_Level_NVNT_ANT1_802_11b_2462



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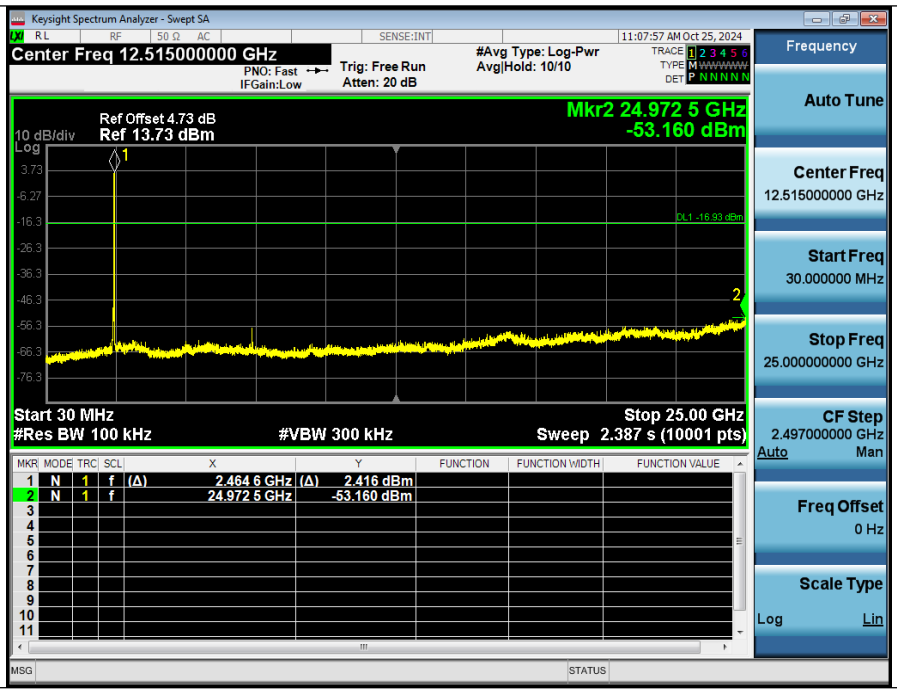
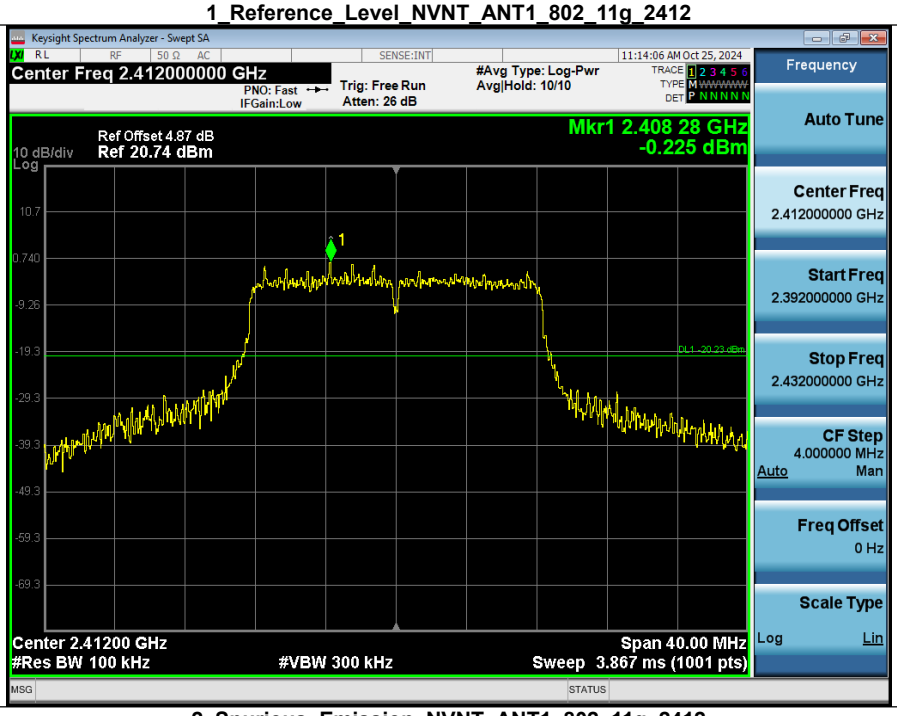
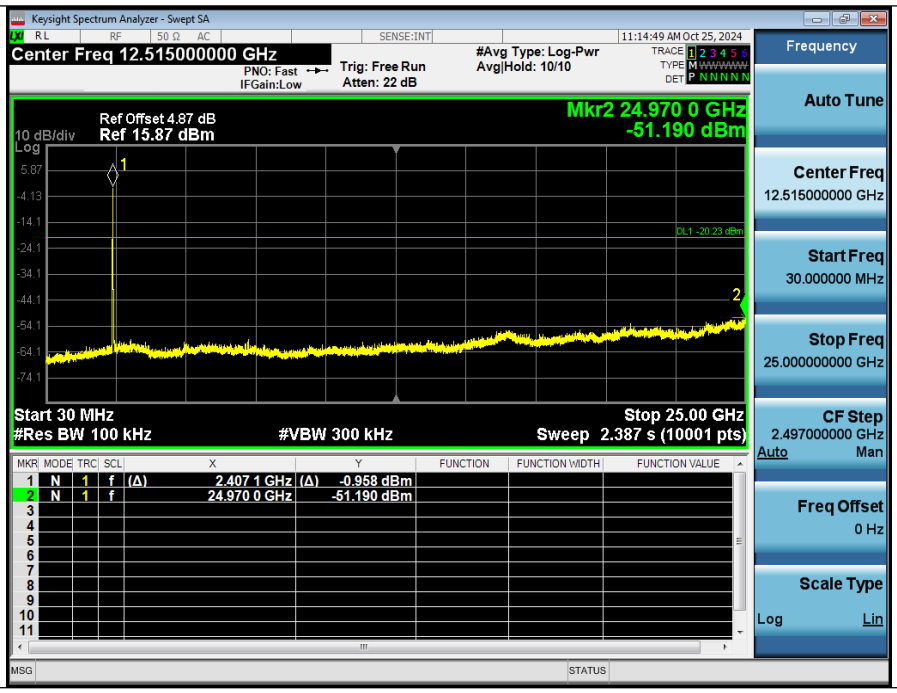


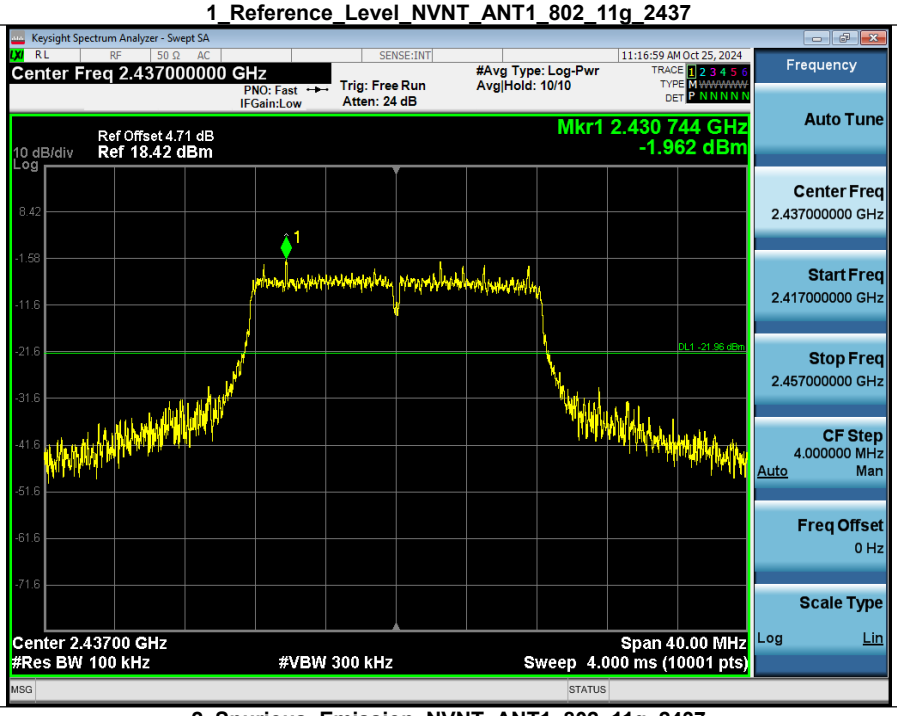
1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Spurious_Emission_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2437



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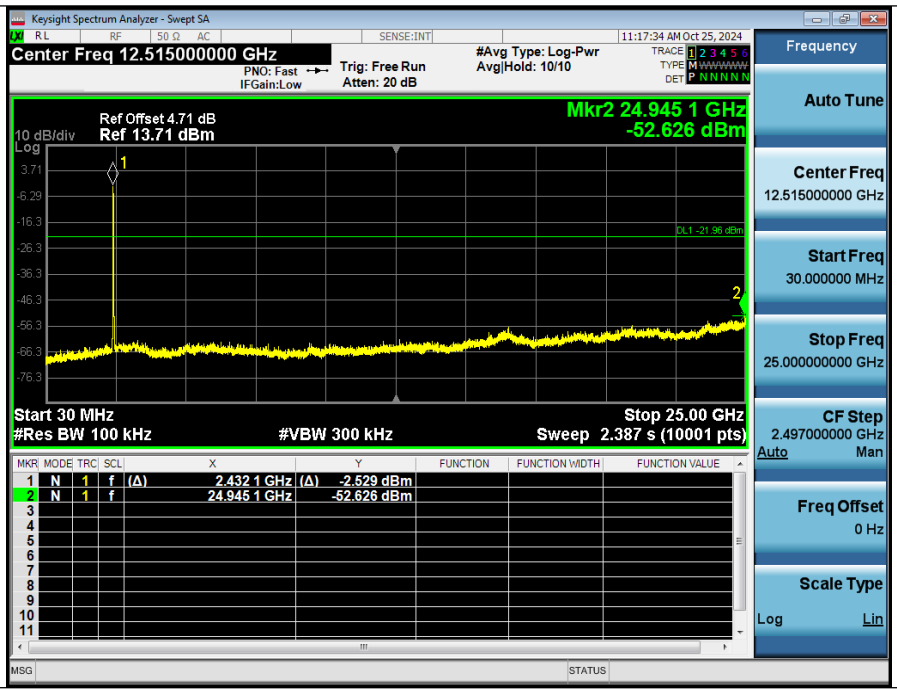

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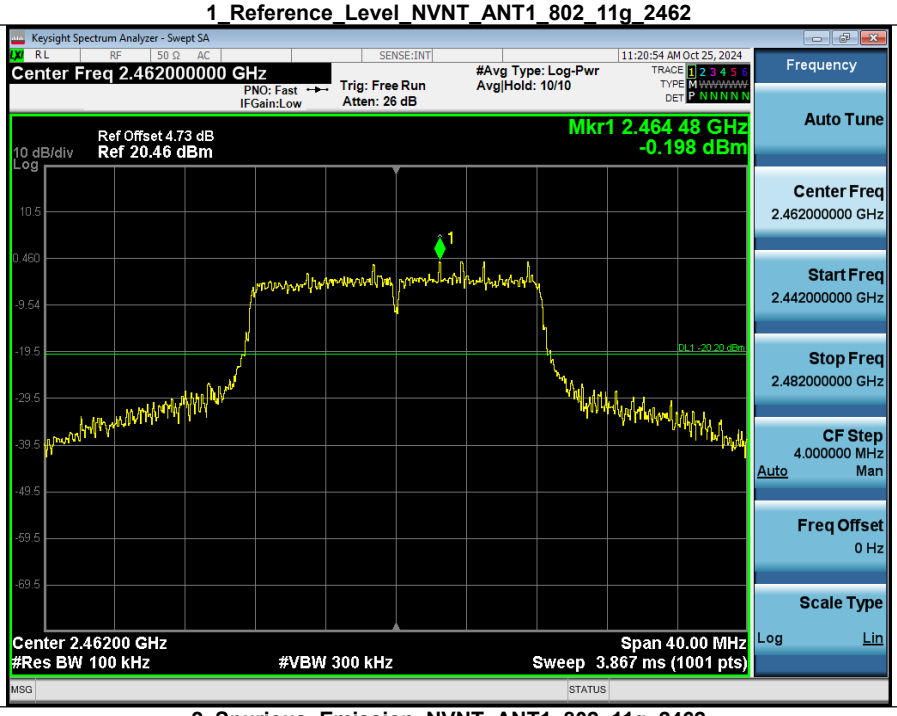

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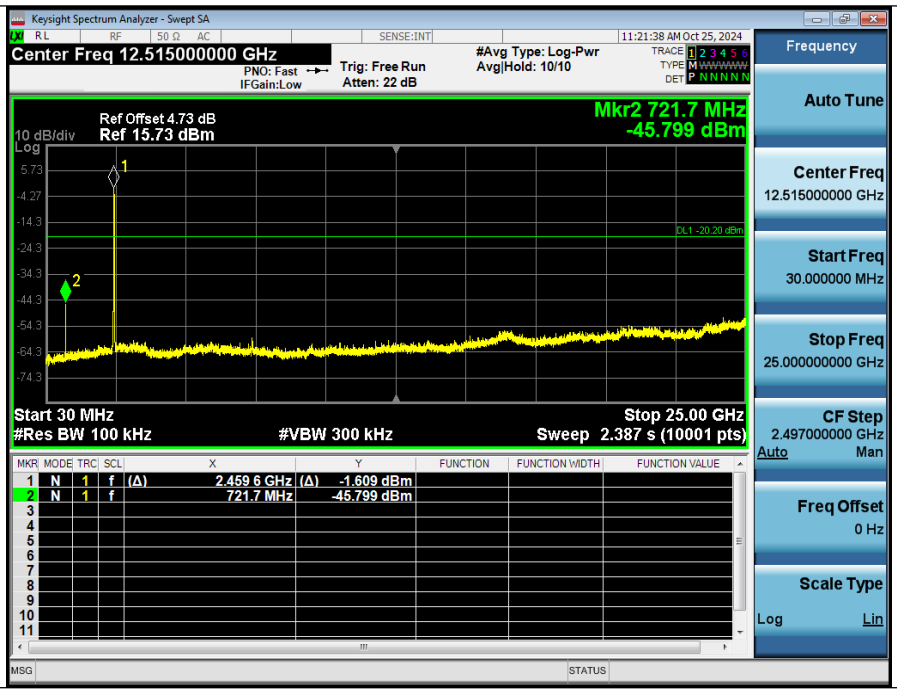
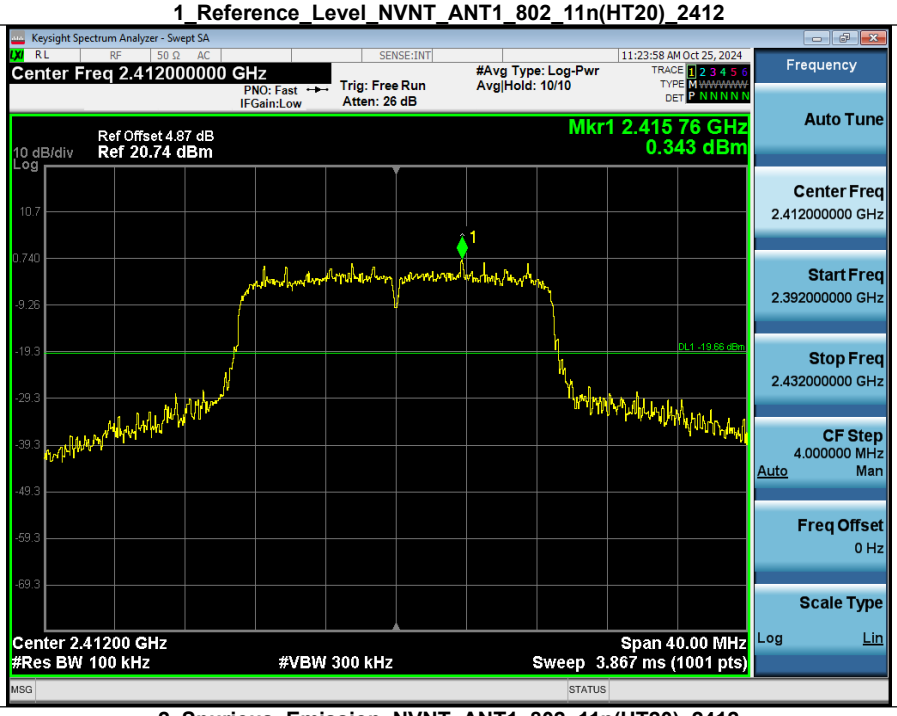


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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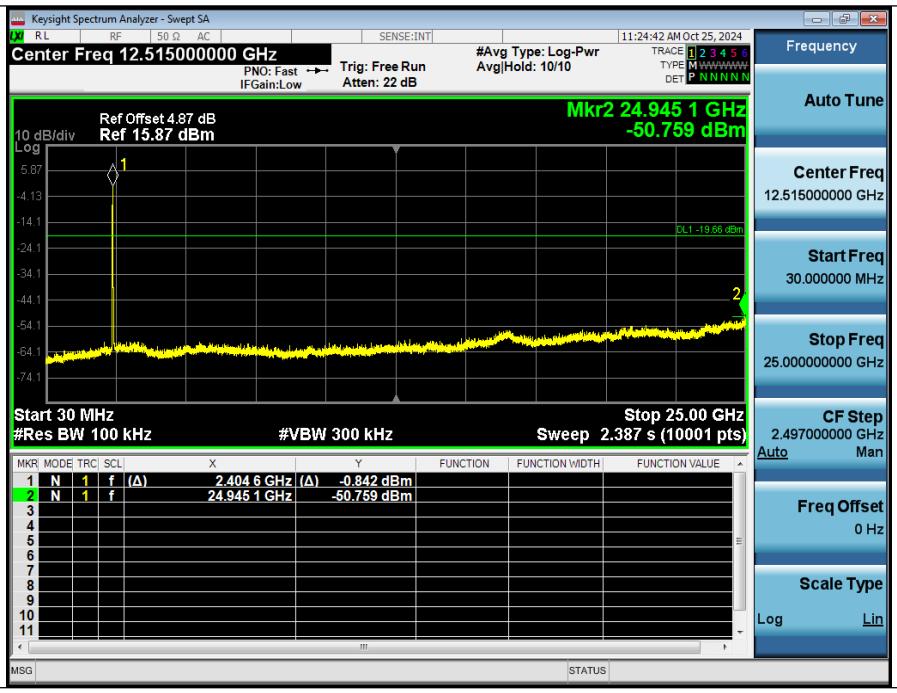

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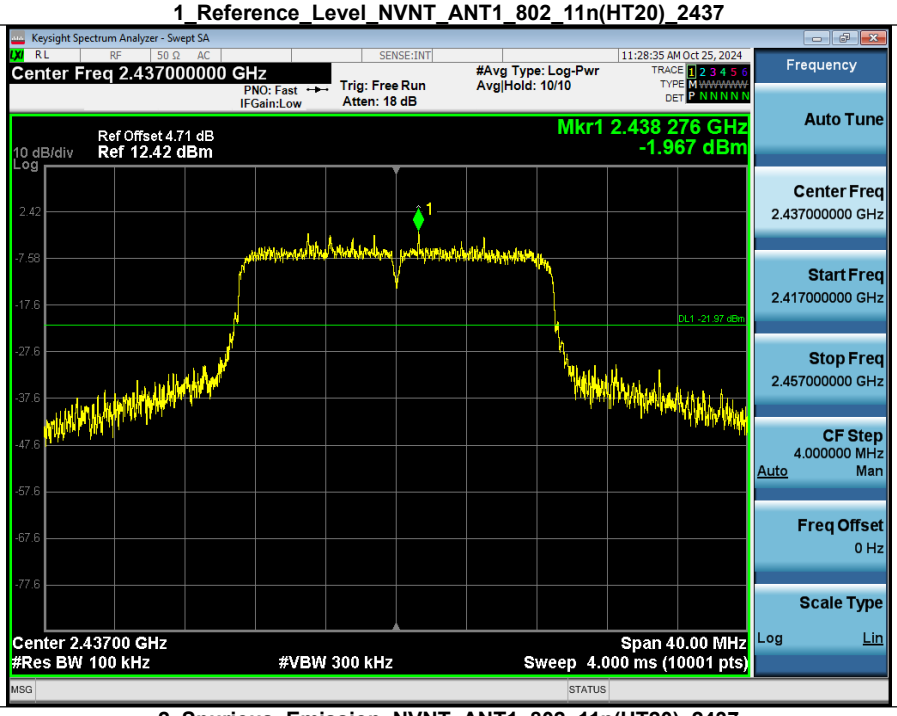

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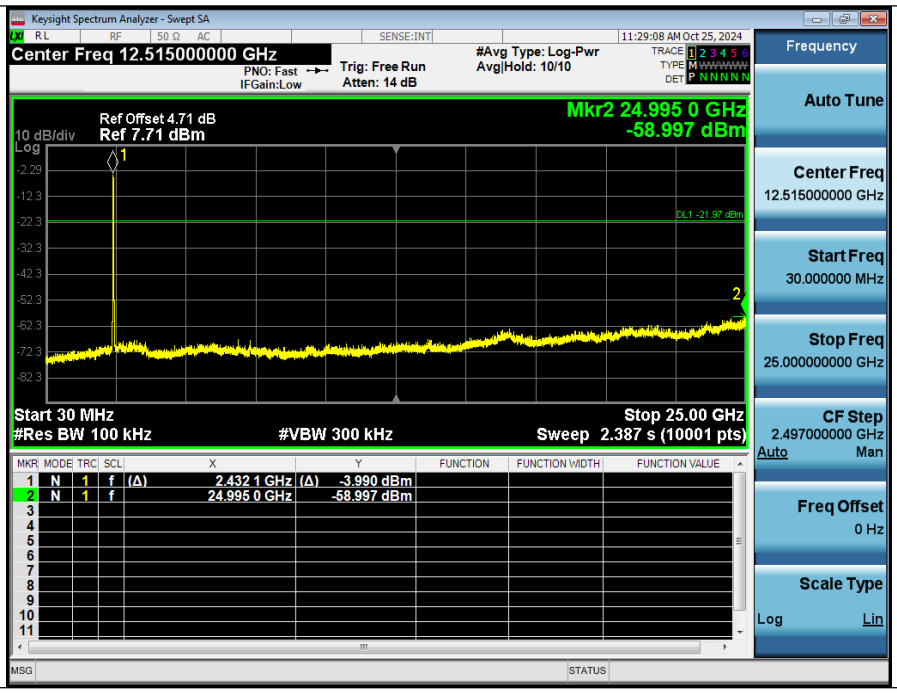
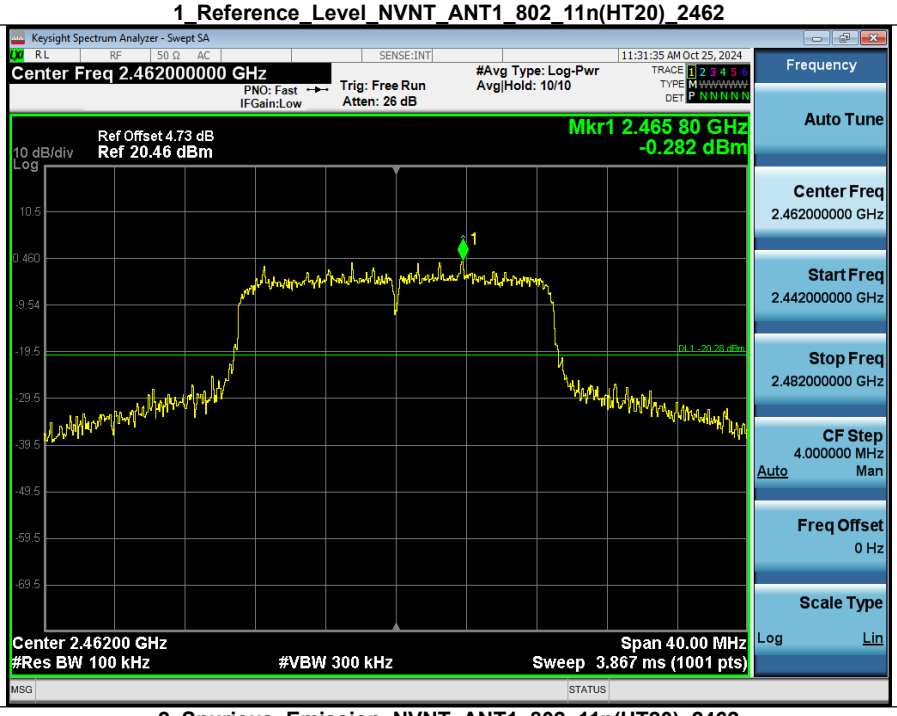


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



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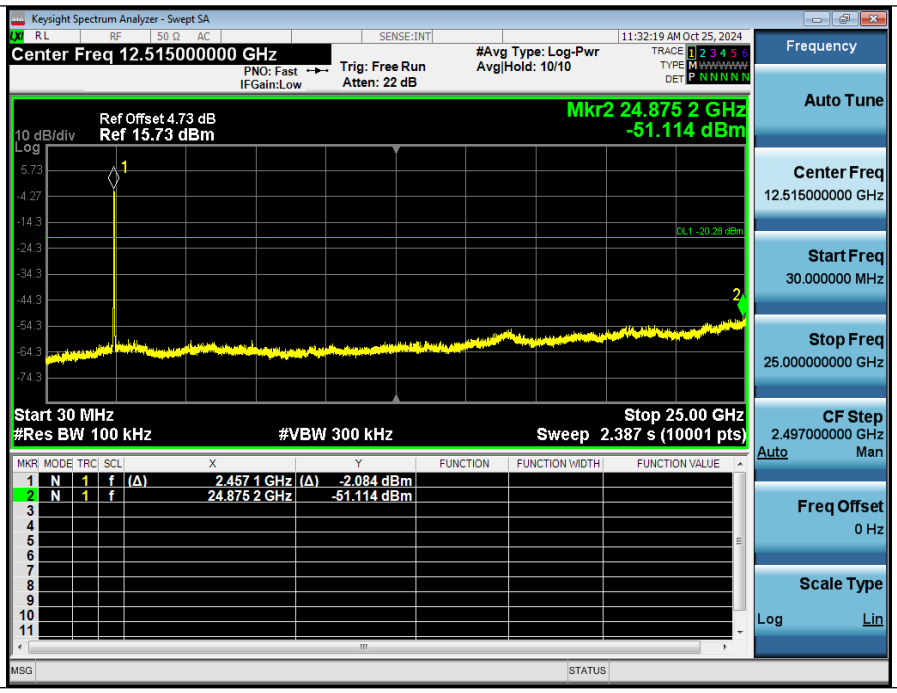

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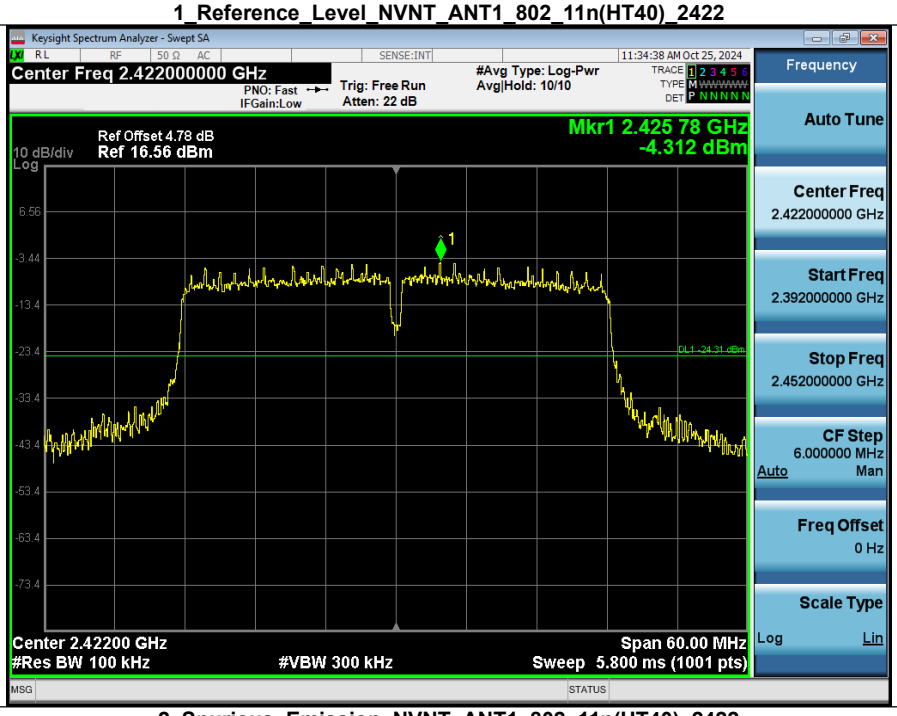

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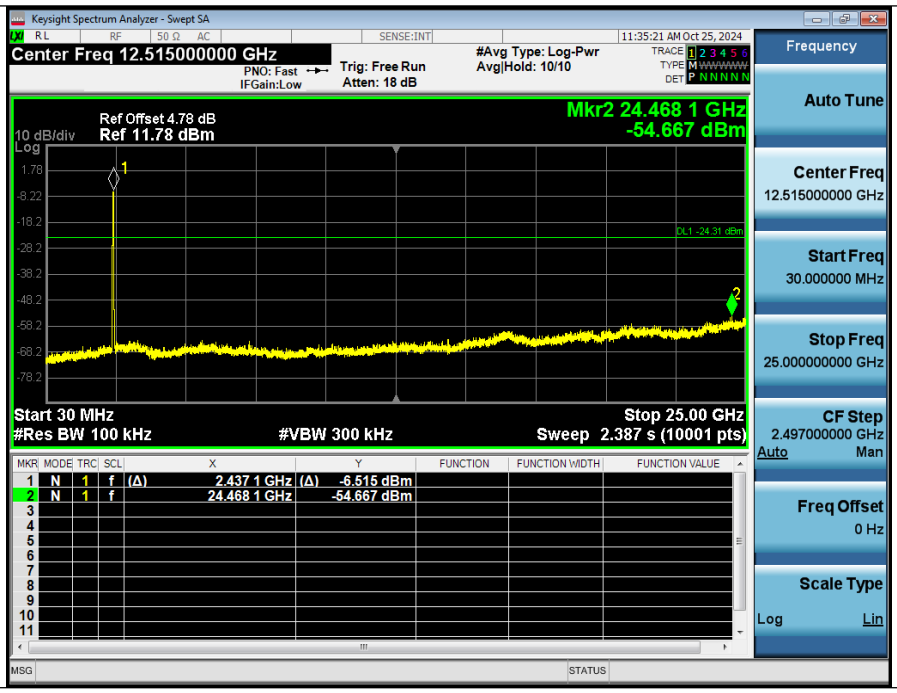

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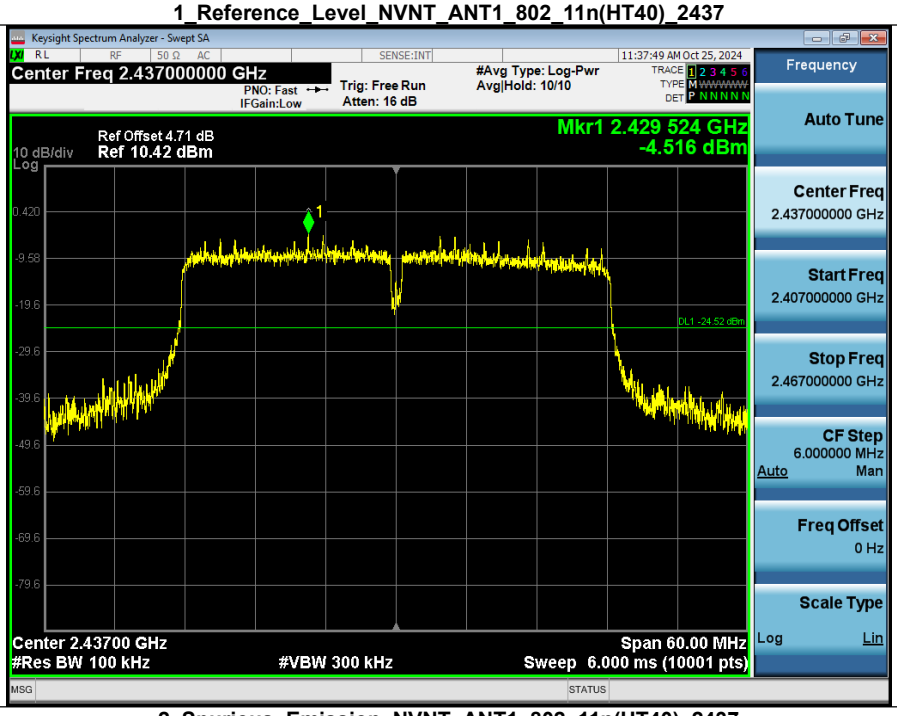
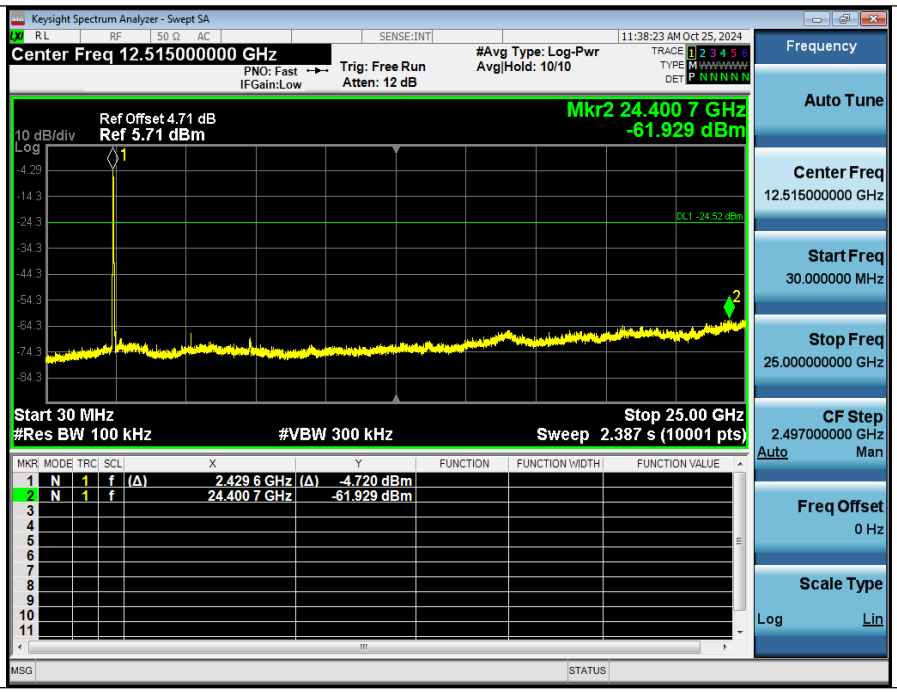
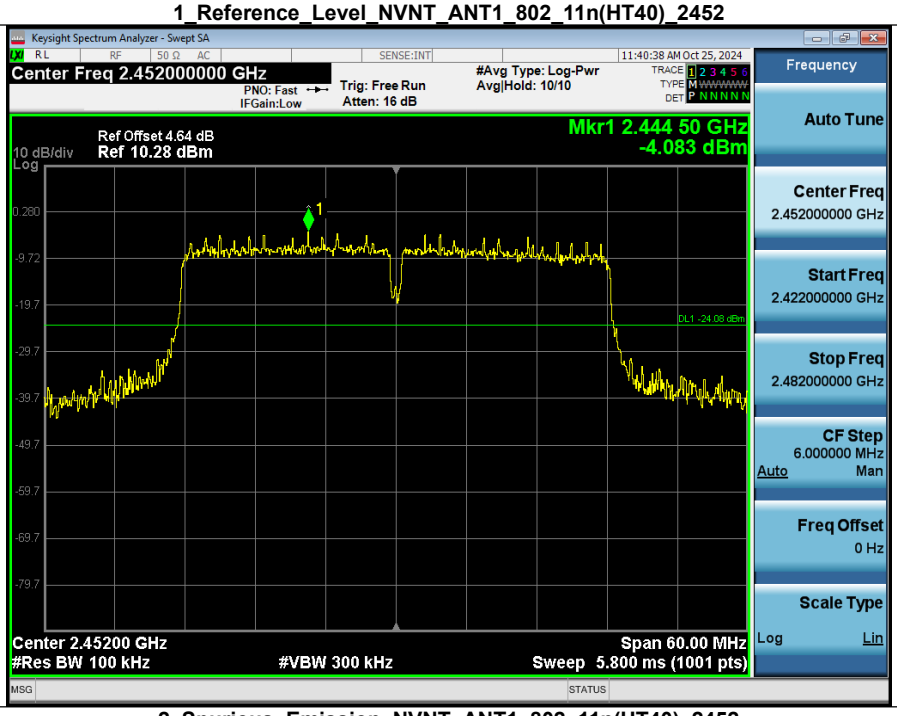


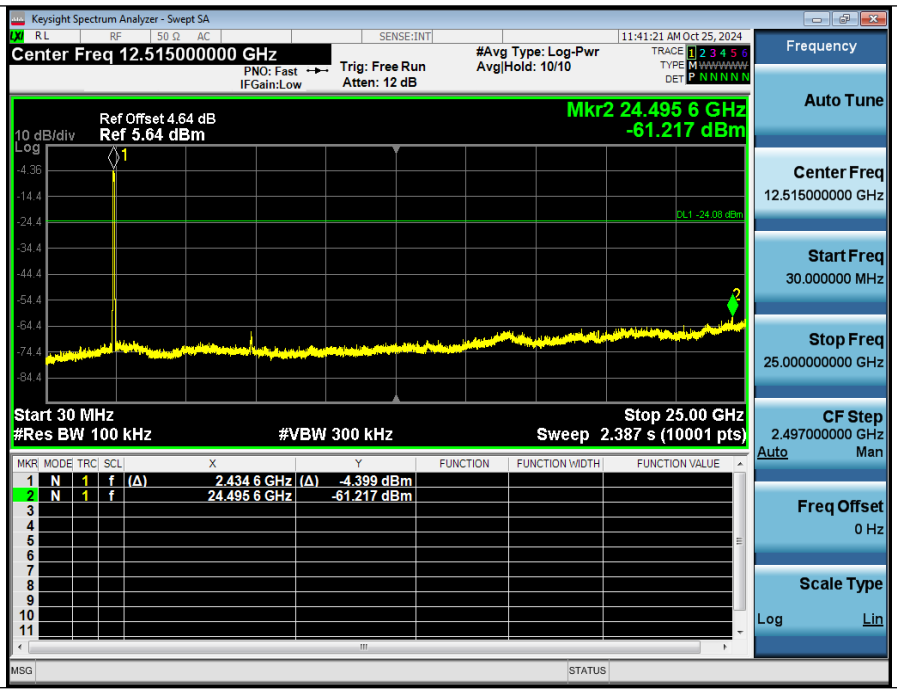
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



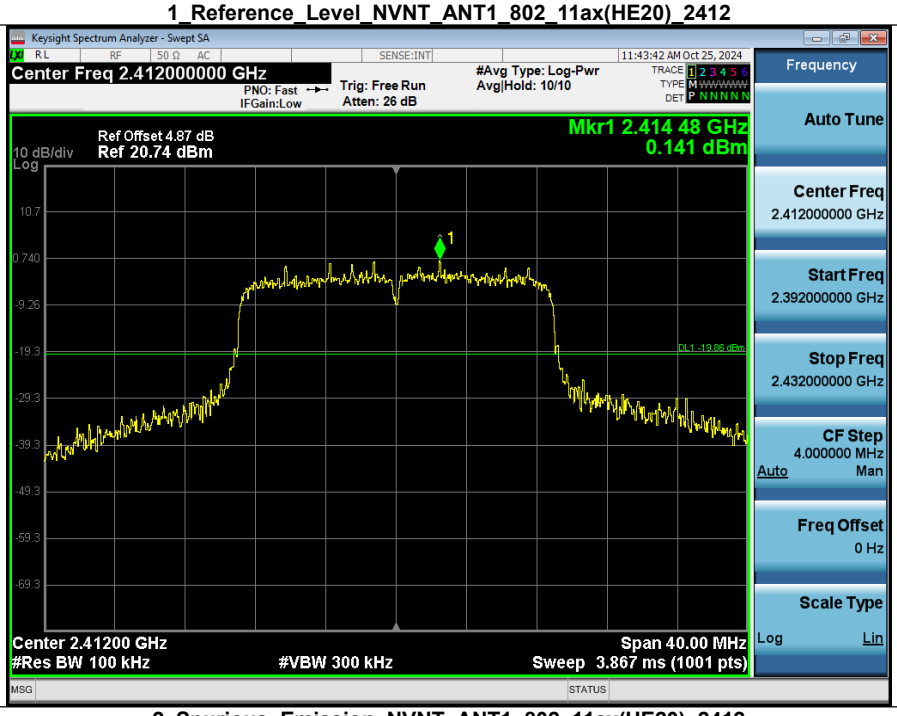
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452



1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2412



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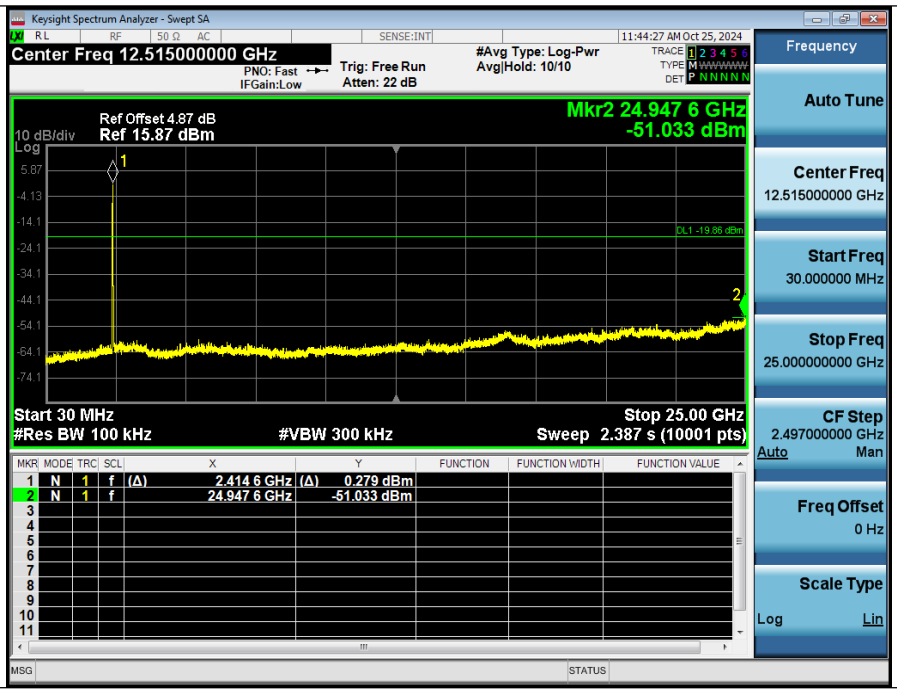
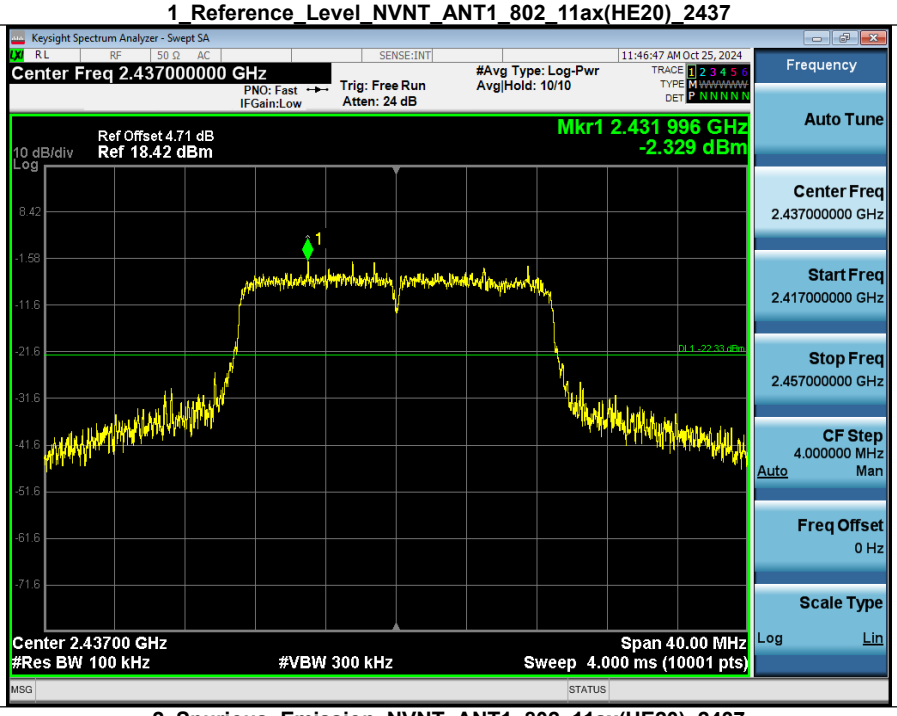
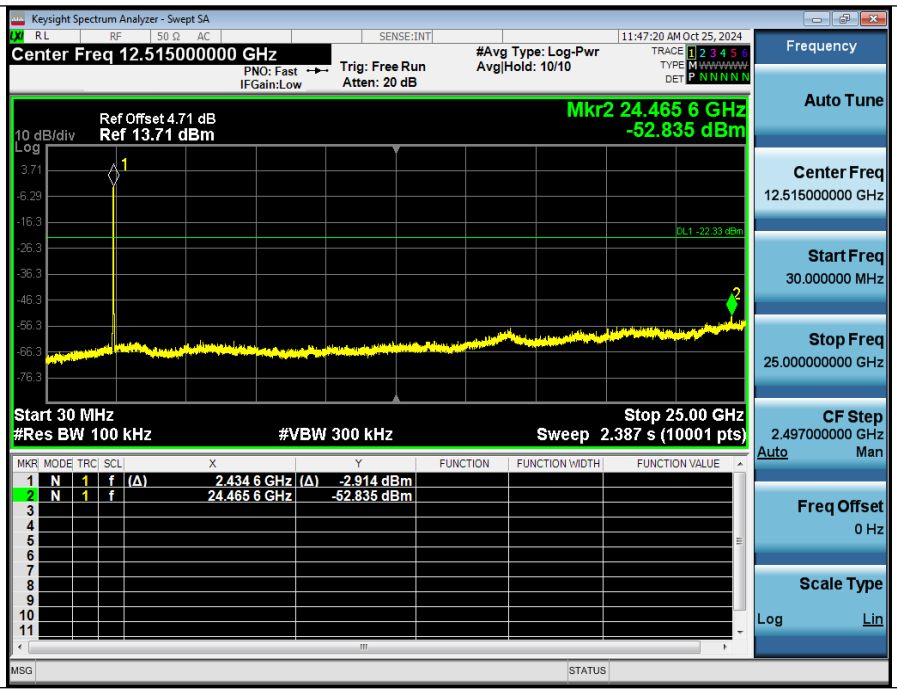


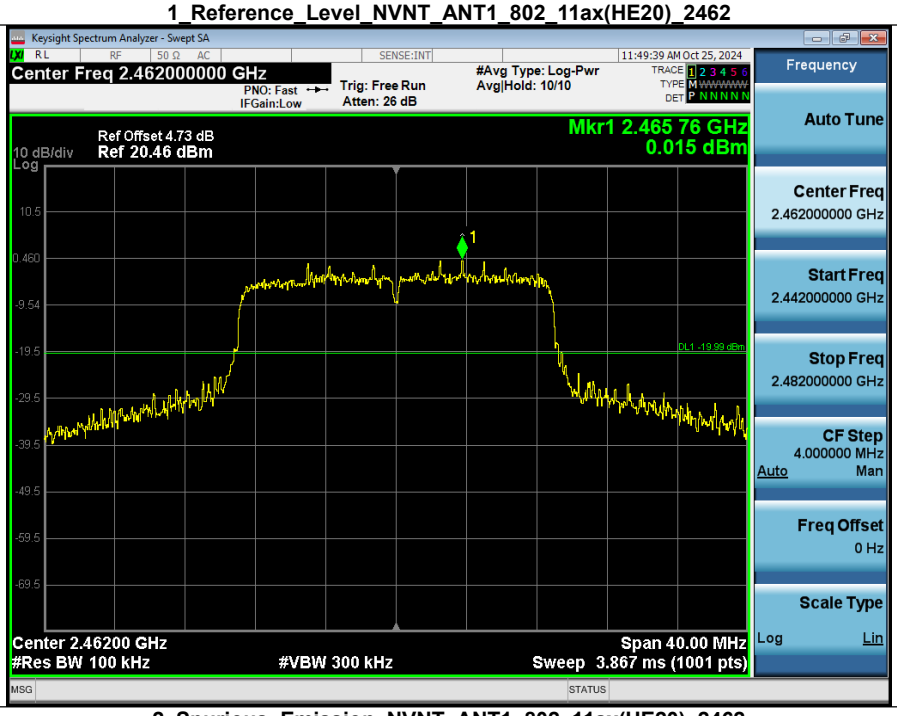
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2437



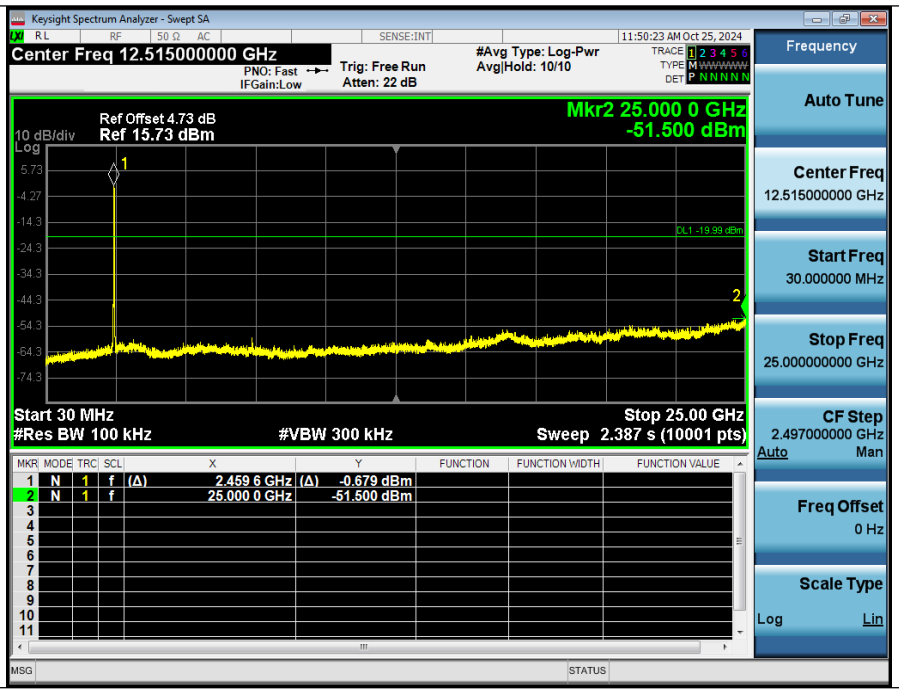
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2437



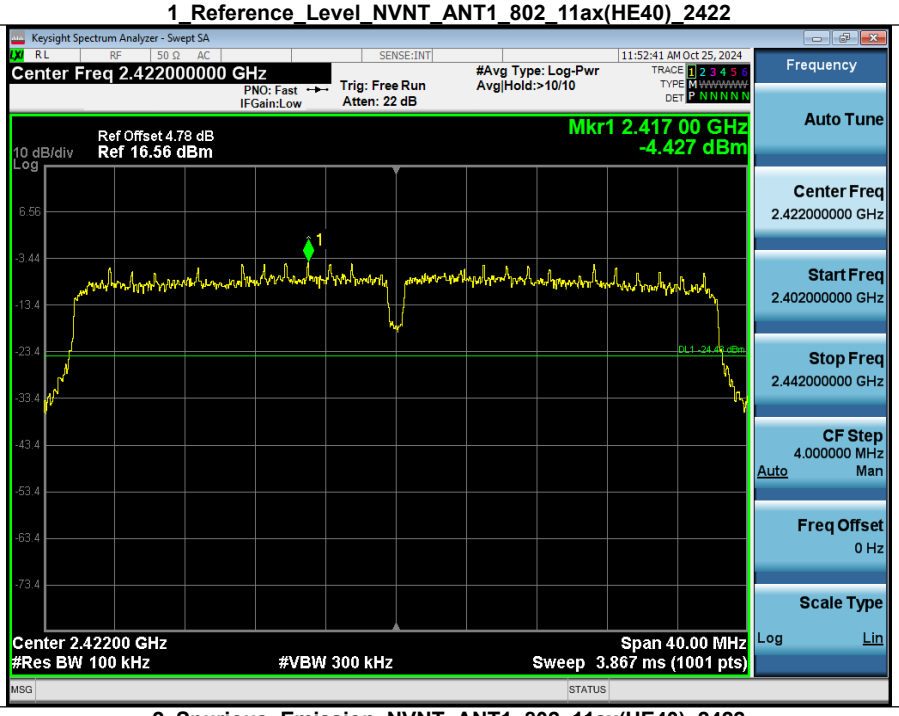
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2462



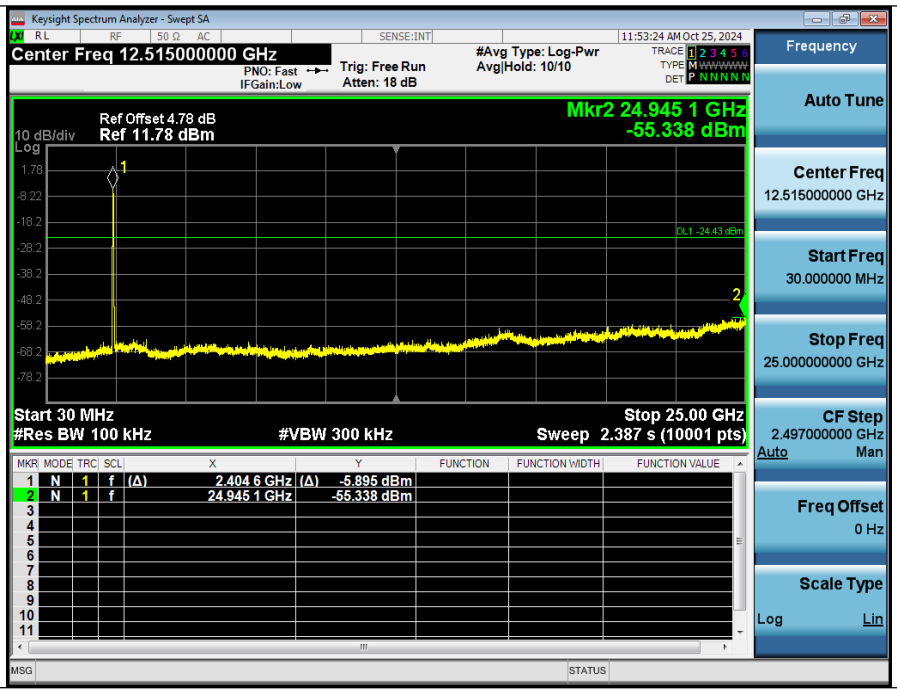
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2462



1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2422



2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2422



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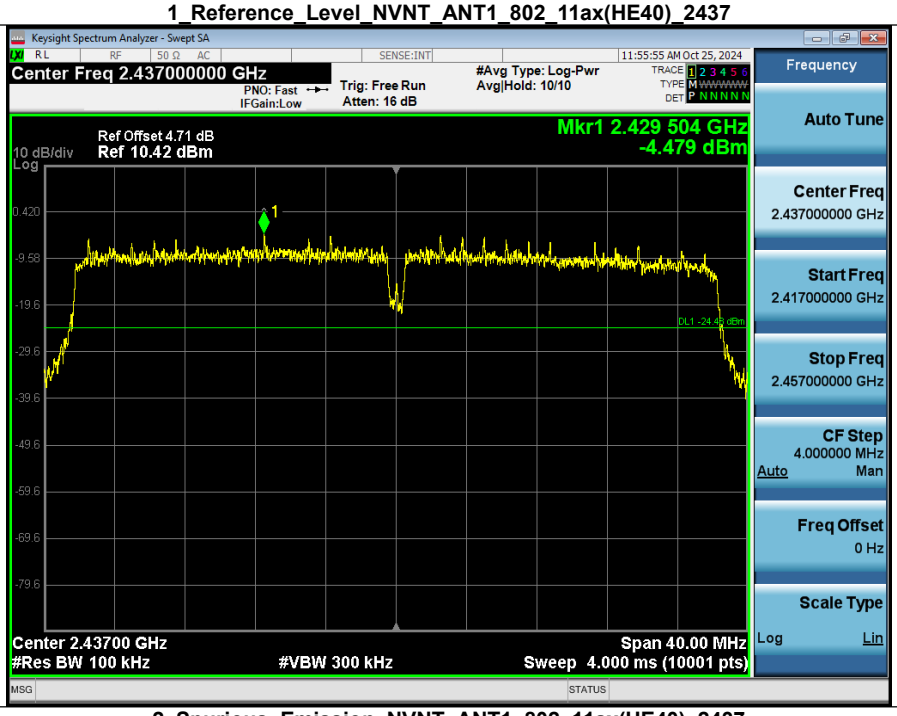
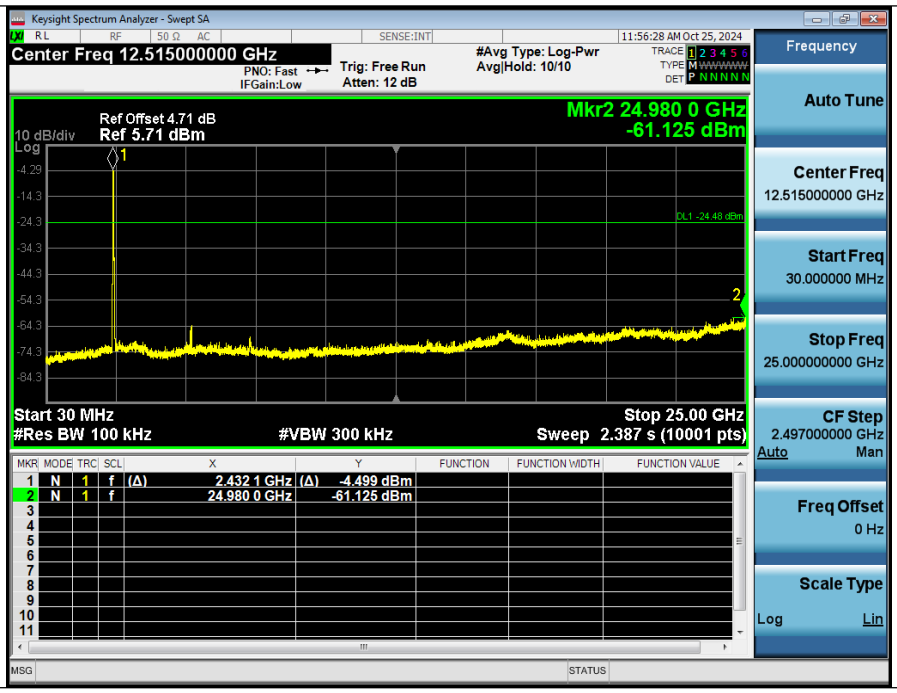
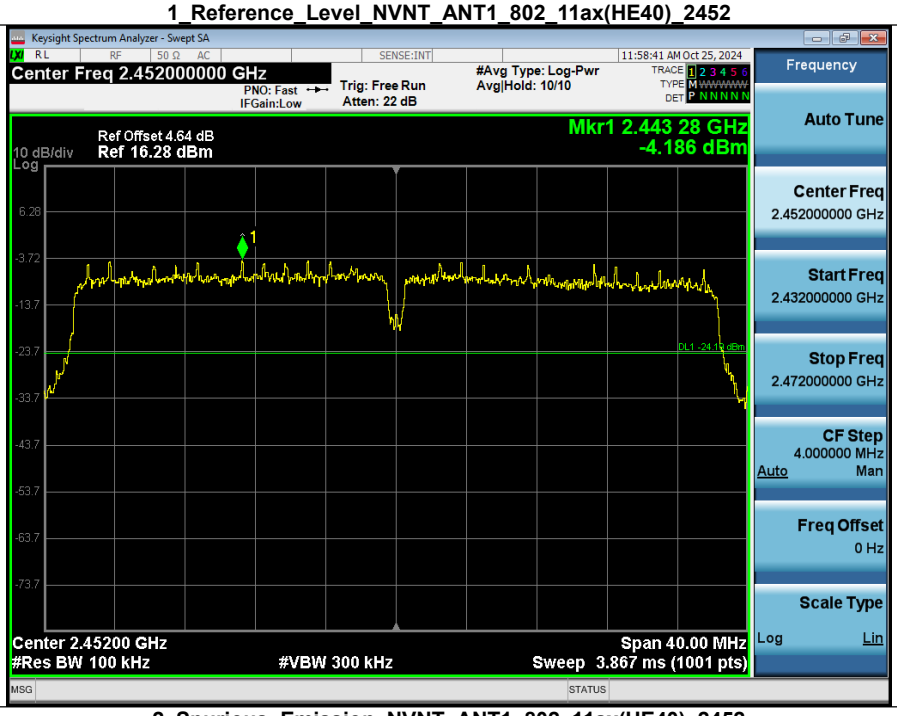


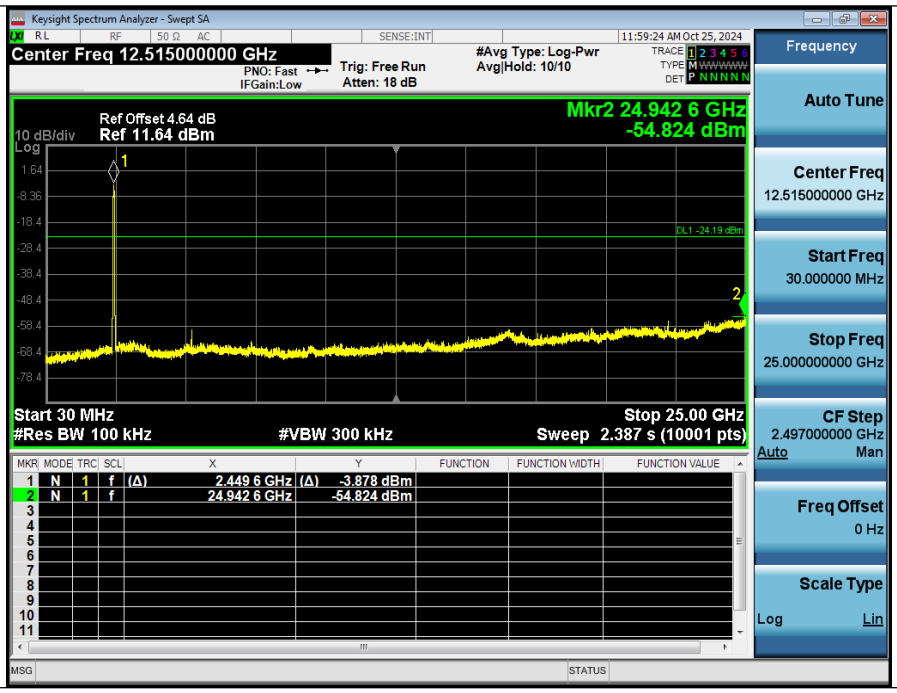
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2437



1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2452


Keysight Spectrum Analyzer - Swept SA
Center Freq 12.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 18 dB
#Avg Type: Log-Pwr
Avg|Hold: 10/10
11:59:24 AM Oct 25, 2024
Ref Offset 4.64 dB
10 dB/div
Ref 11.64 dBm
Mkr2 24.942 6 GHz
-54.824 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.00 GHz
Sweep 2.387 s (10001 pts)
1 N 1 f (Δ) 2.449 6 GHz (Δ) -3.878 dBm
2 N 1 f 24.942 6 GHz -54.824 dBm
Frequency
Auto Tune
Center Freq
12.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
25.000000000 GHz
CF Step
2.497000000 GHz
Auto Man
Freq Offset
0 Hz
Scale Type
Log Lin