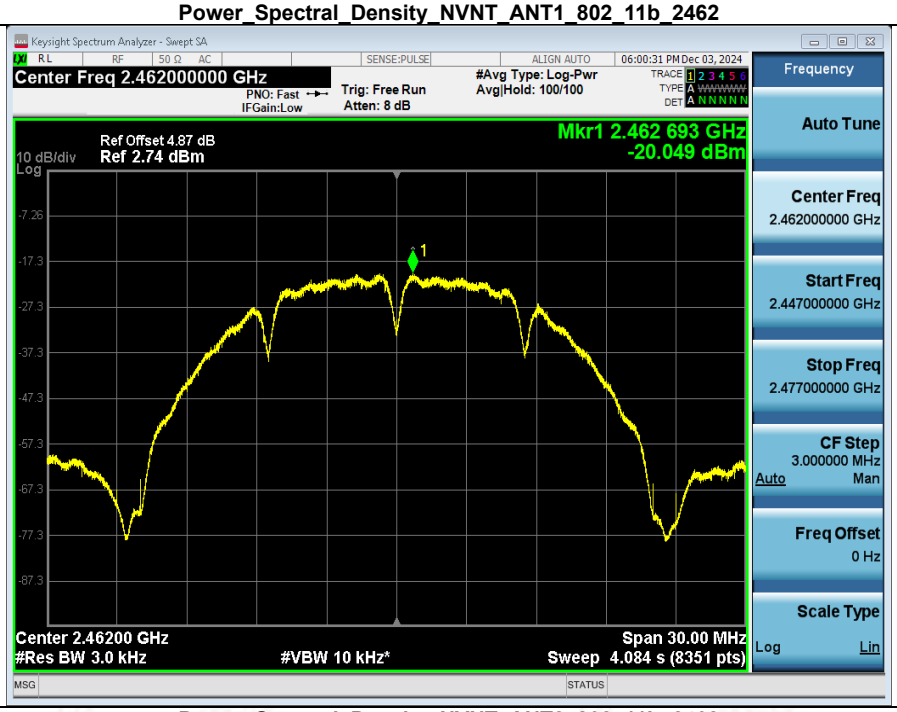
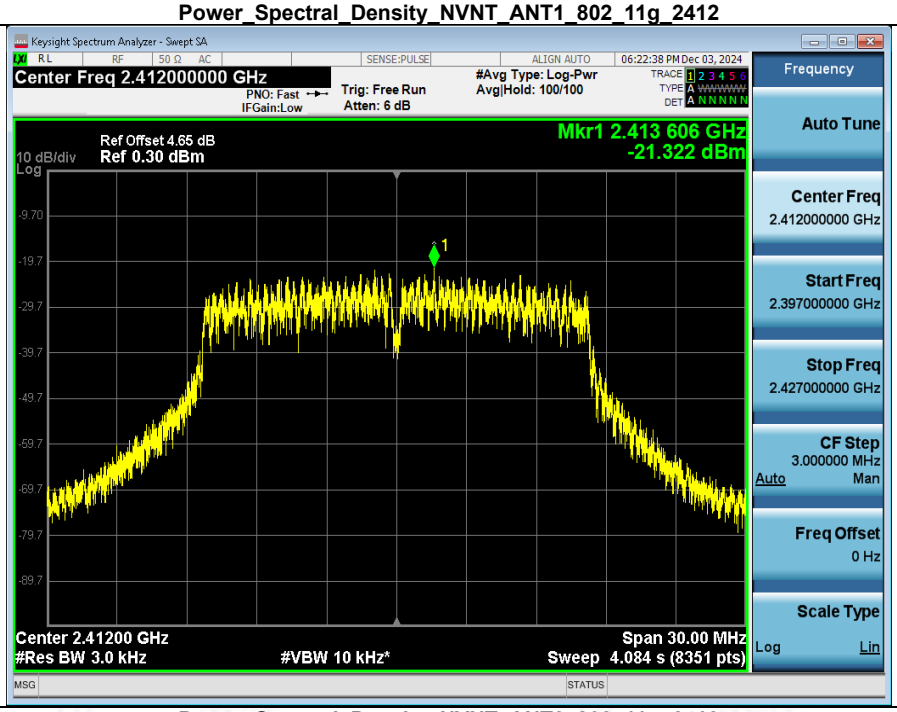
Power_Spectral_Density_NVNT_ANT1_802_11b_2462

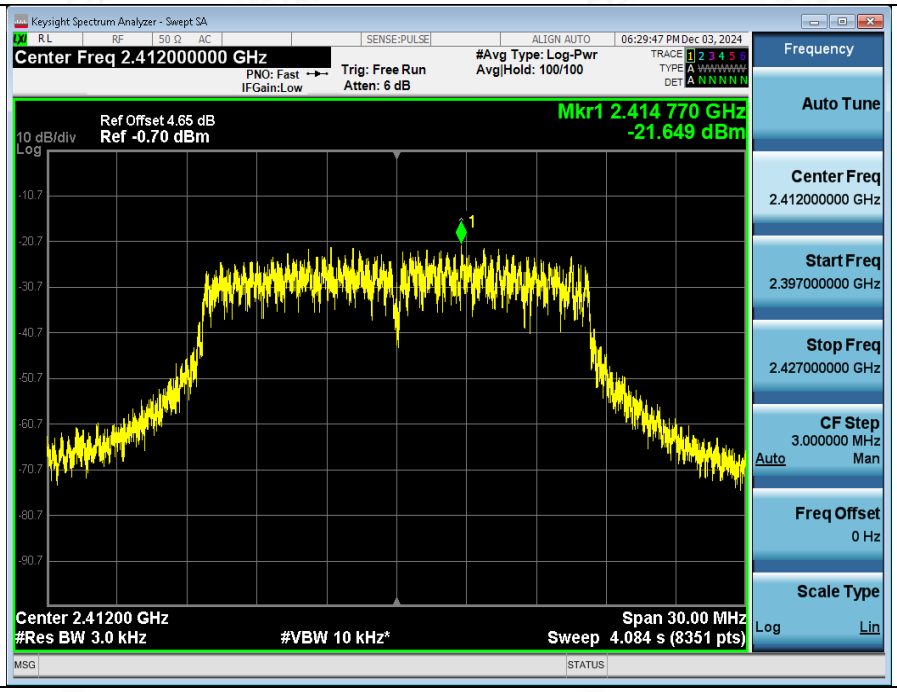


Power_Spectral_Density_NVNT_ANT2_802_11b_2462

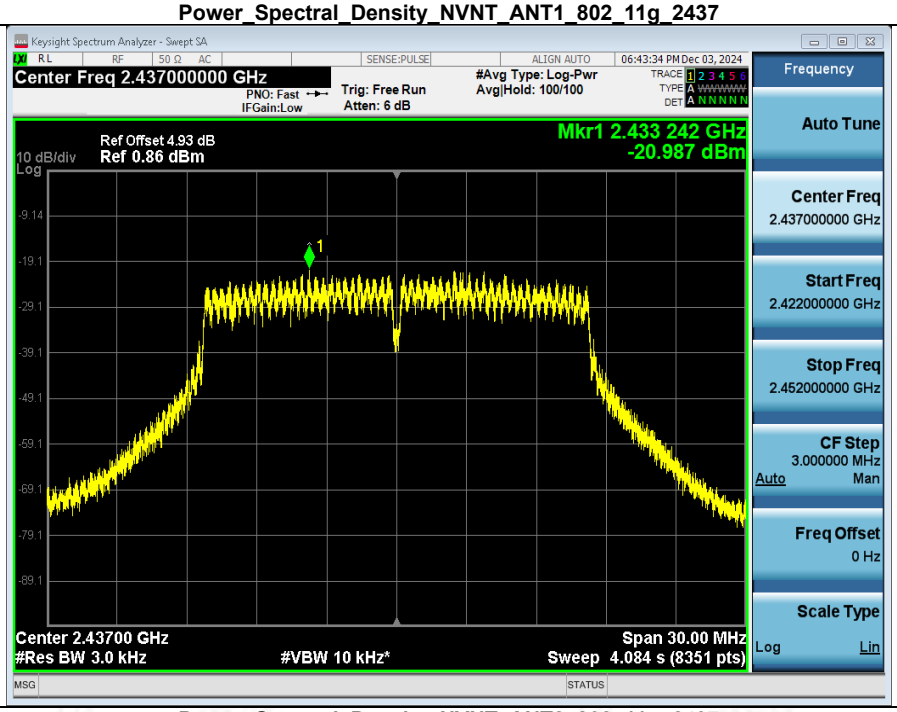
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



Power_Spectral_Density_NVNT_ANT2_802_11g_2412



Power_Spectral_Density_NVNT_ANT1_802_11g_2437



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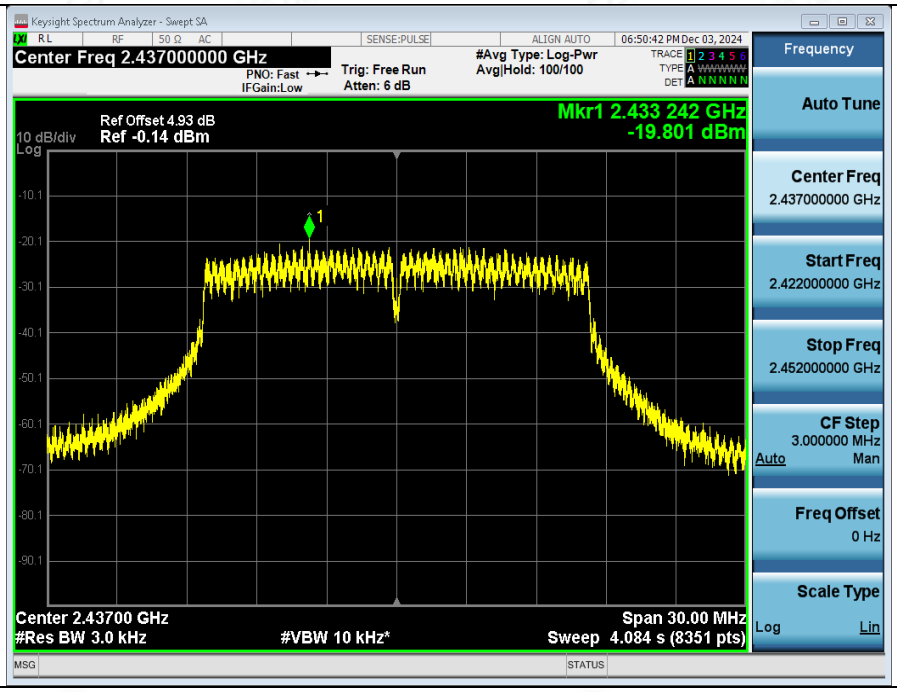
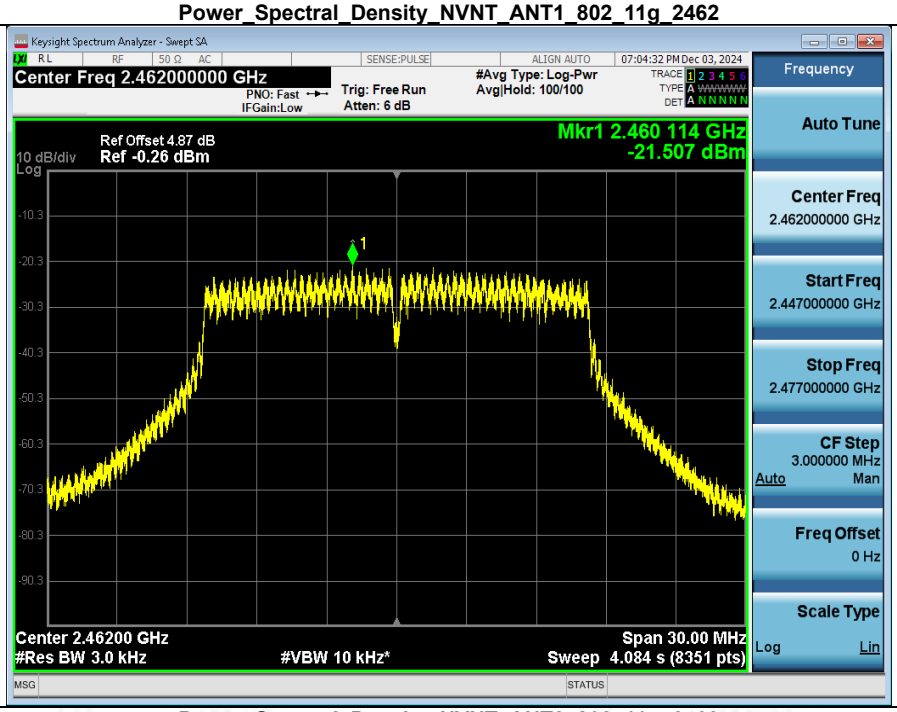


Power_Spectral_Density_NVNT_ANT1_802_11g_2462



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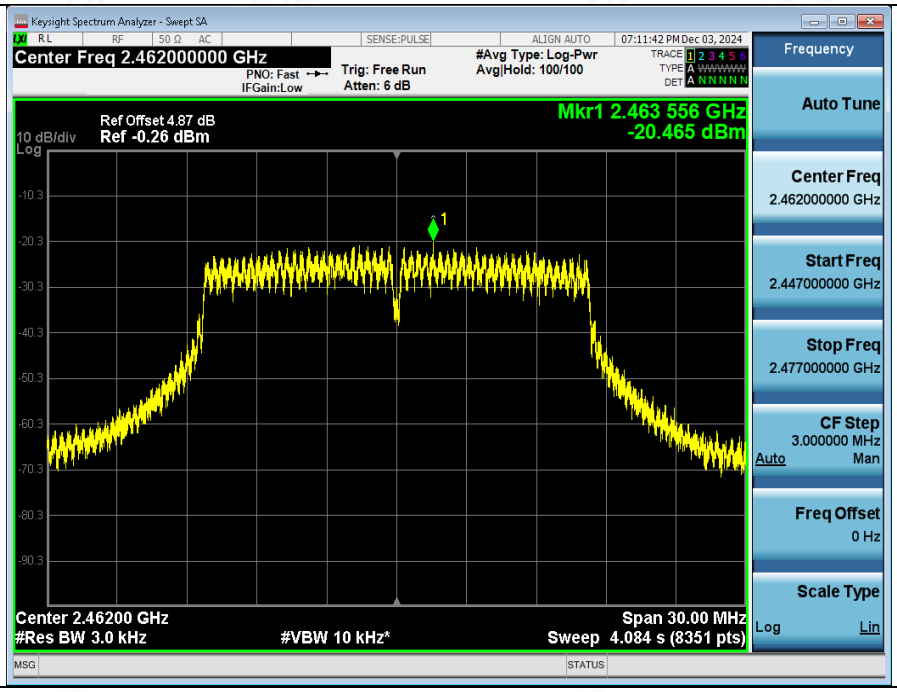
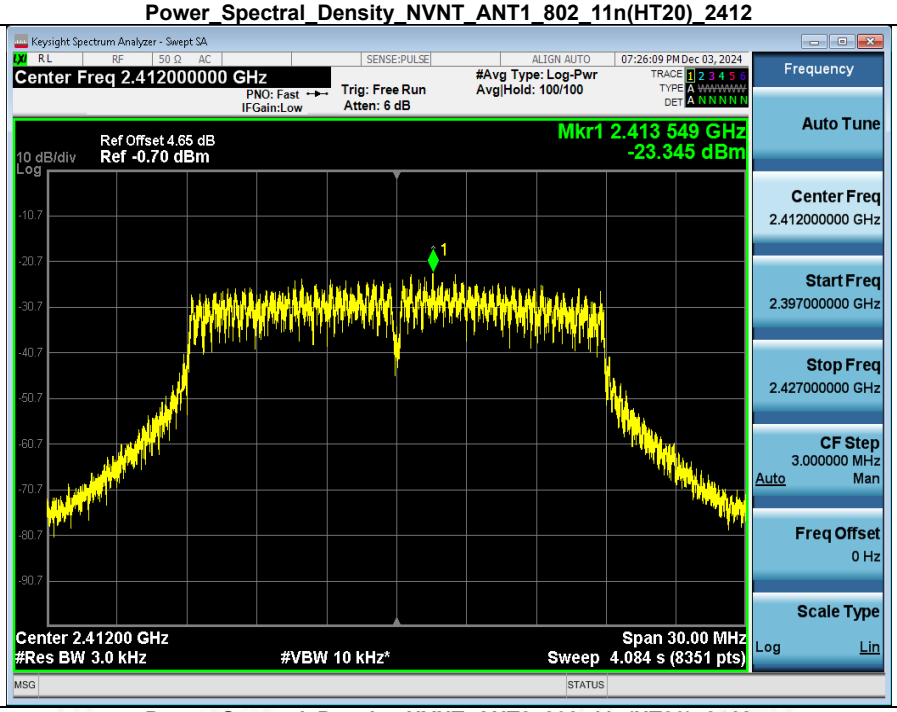
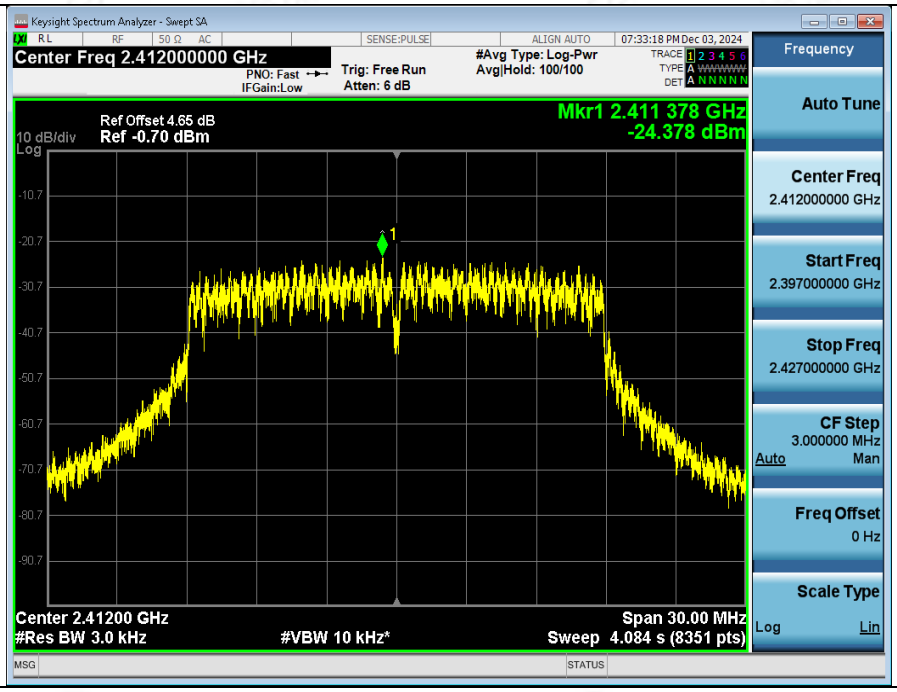


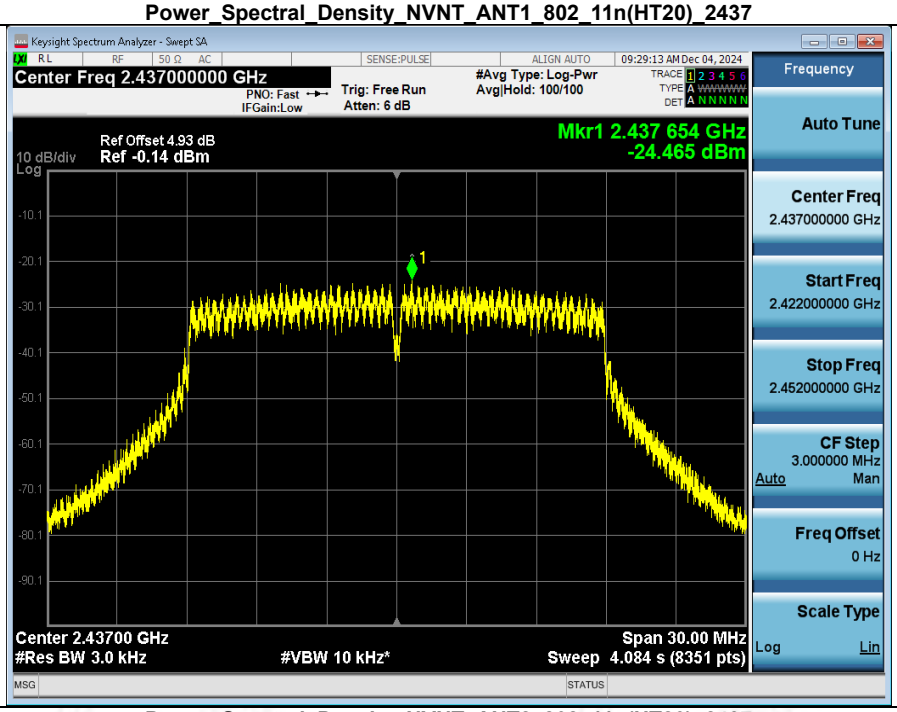
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



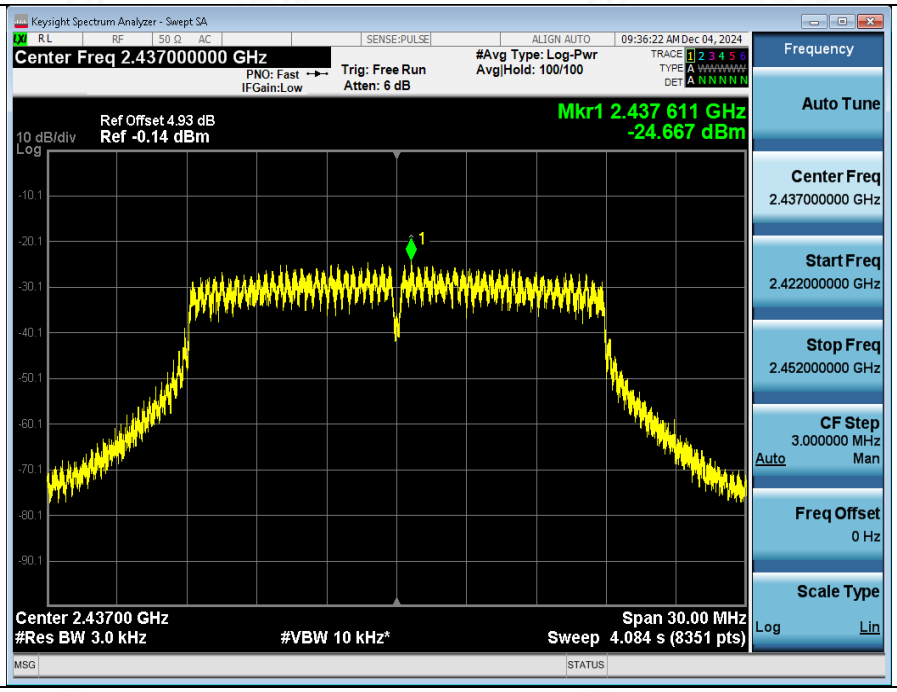
Power_Spectral_Density_NVNT_ANT2_802_11n(HT20)_2412



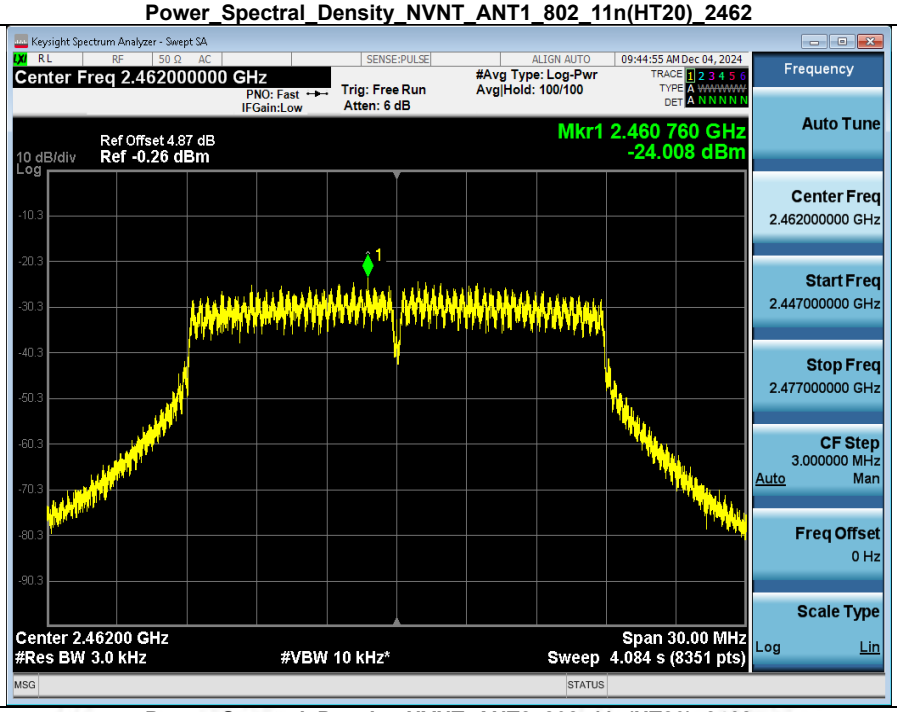
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



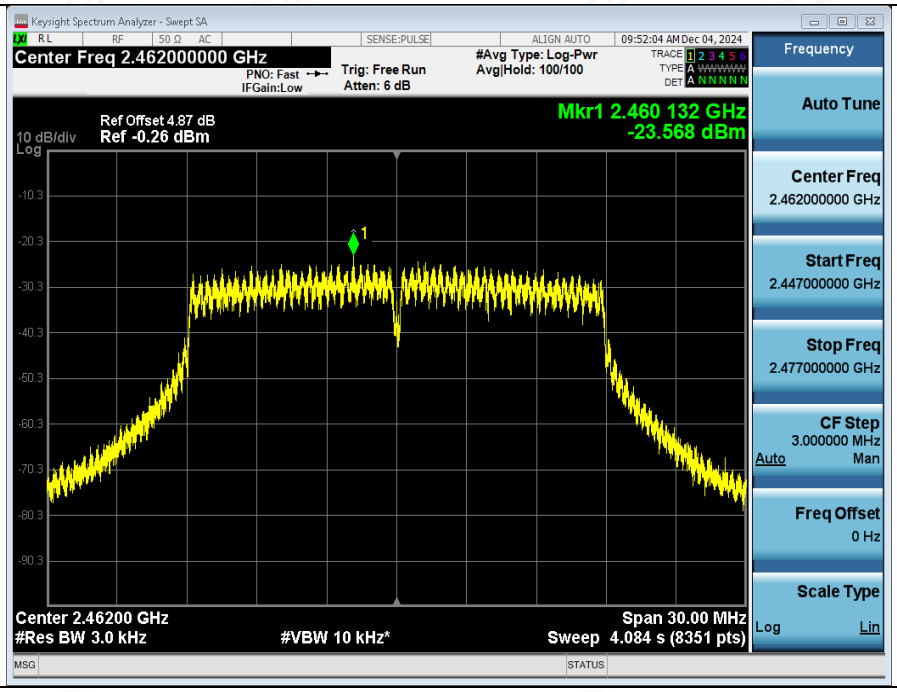
Power_Spectral_Density_NVNT_ANT2_802_11n(HT20)_2437



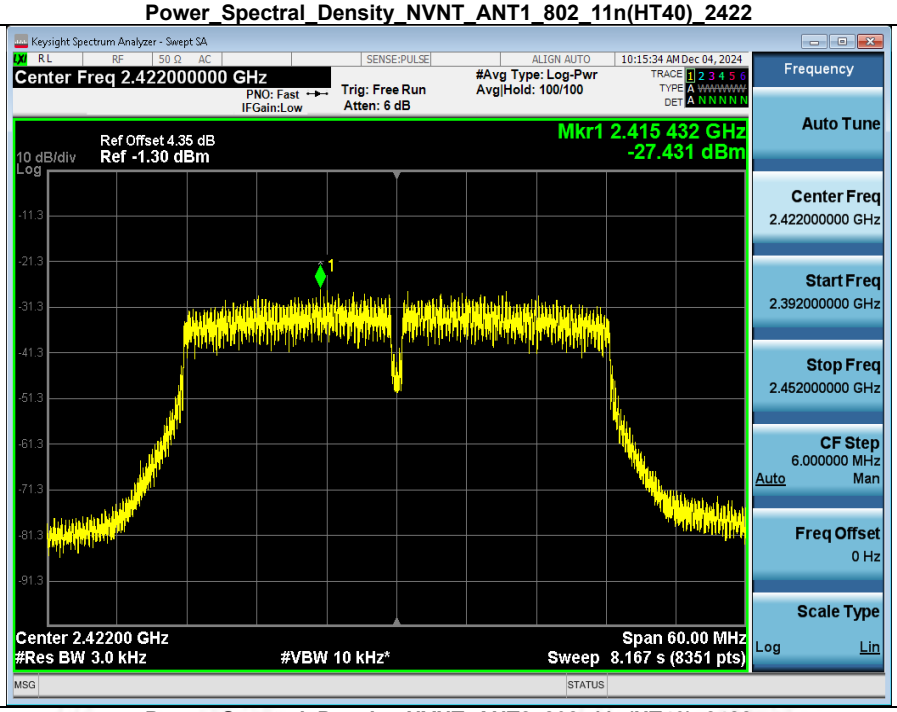
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



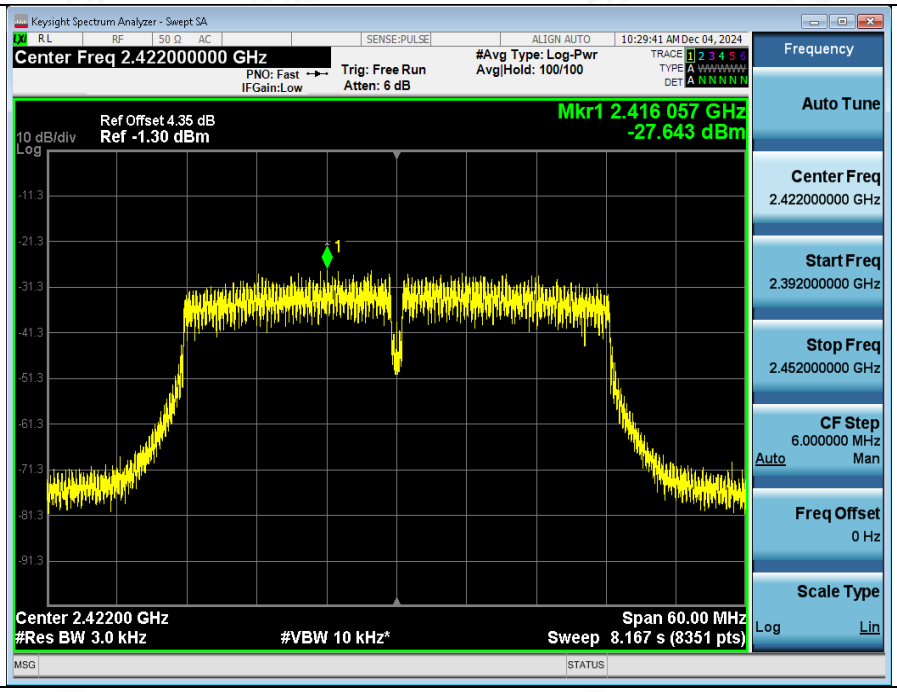
Power_Spectral_Density_NVNT_ANT2_802_11n(HT20)_2462



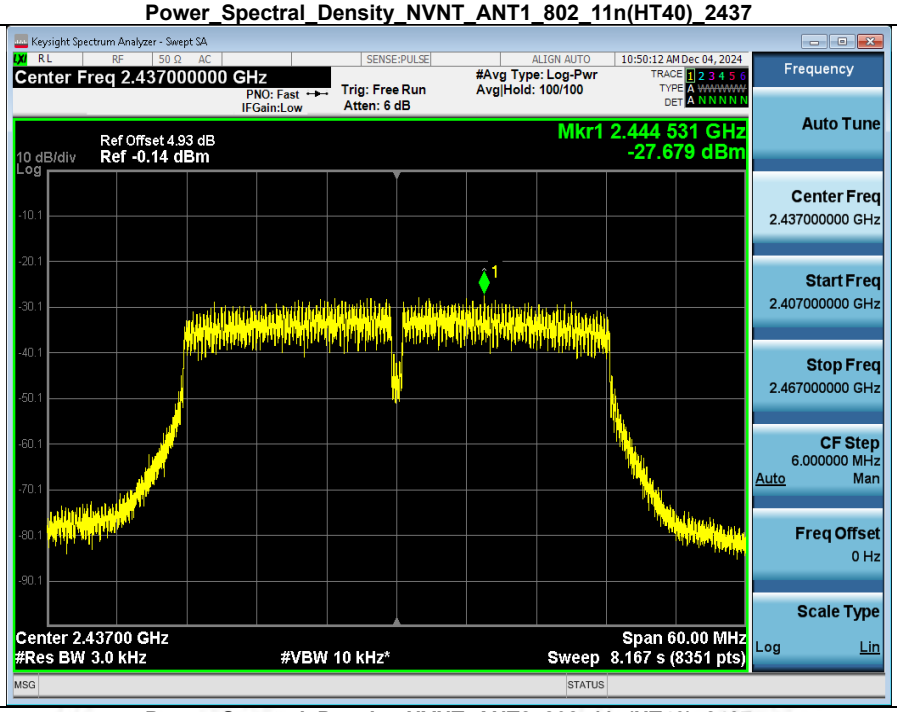
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



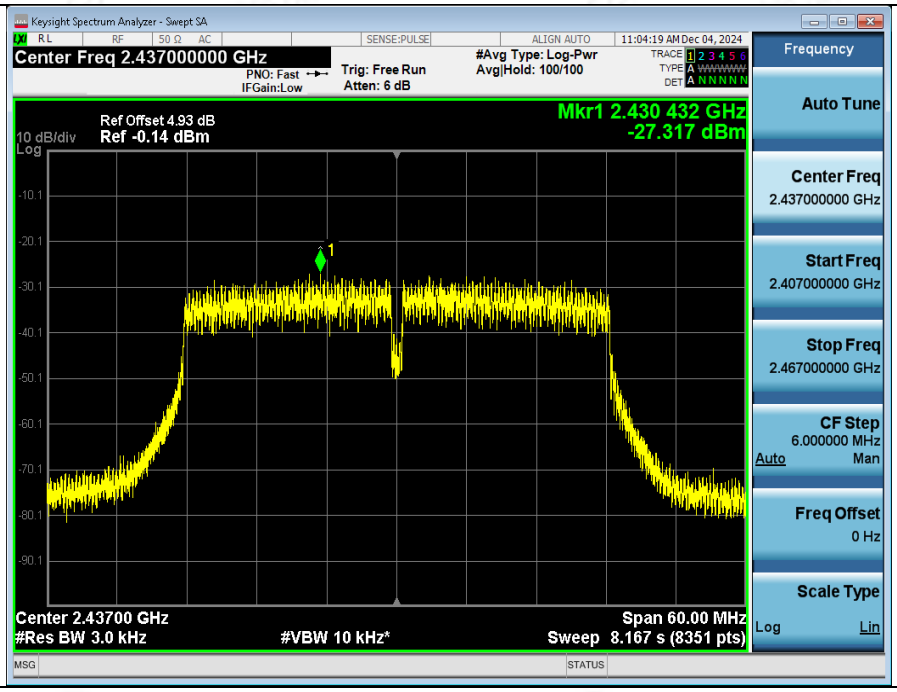
Power_Spectral_Density_NVNT_ANT2_802_11n(HT40)_2422



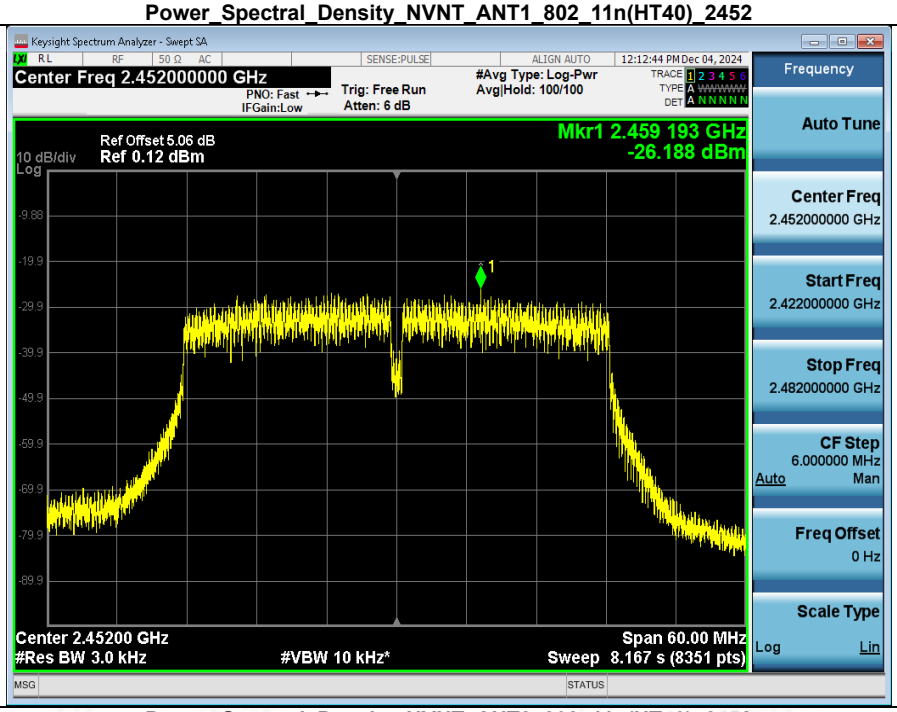
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



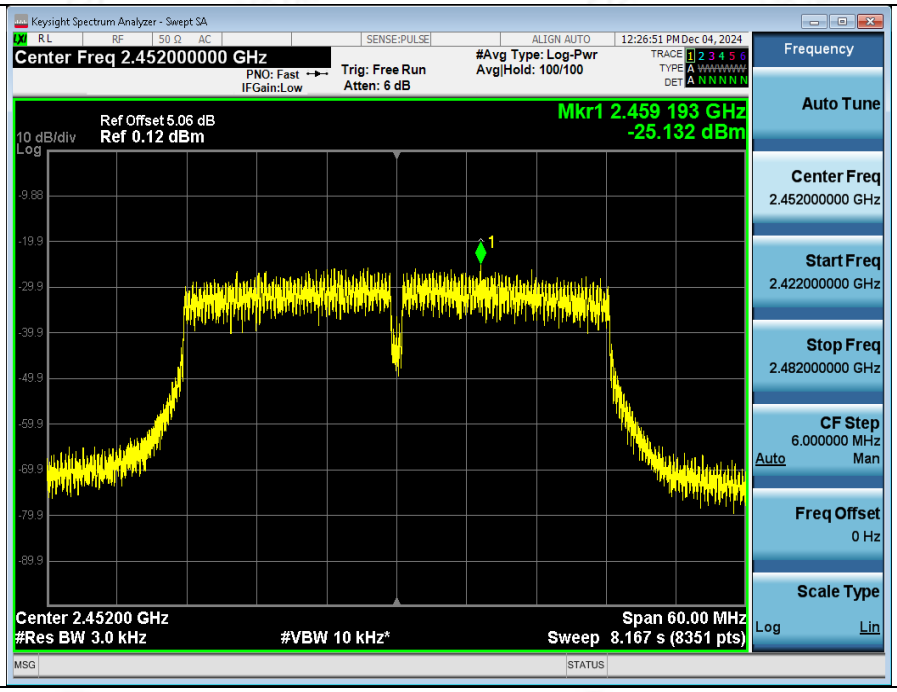
Power_Spectral_Density_NVNT_ANT2_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452

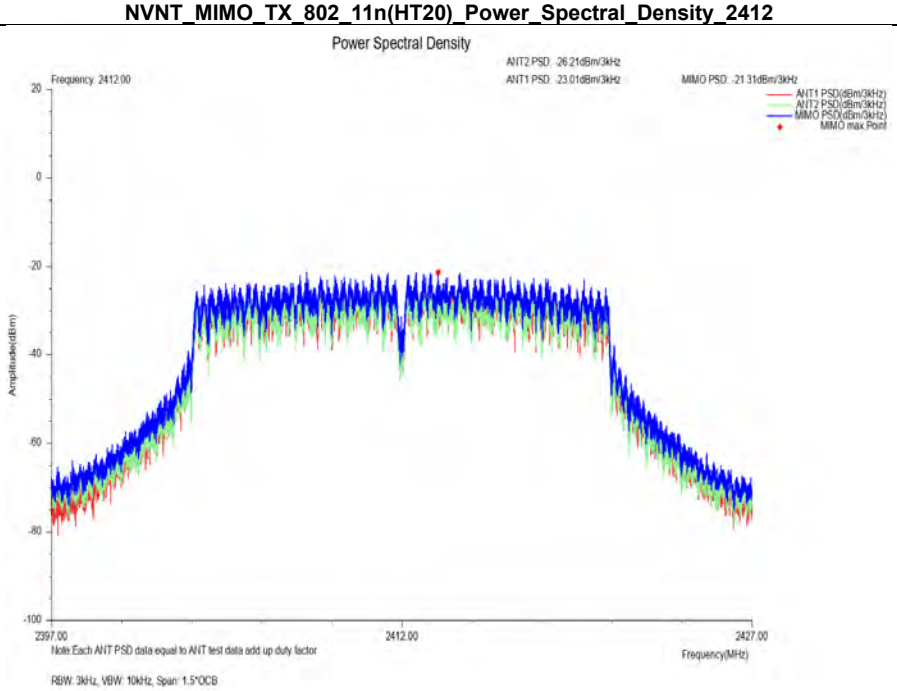


Power_Spectral_Density_NVNT_ANT2_802_11n(HT40)_2452

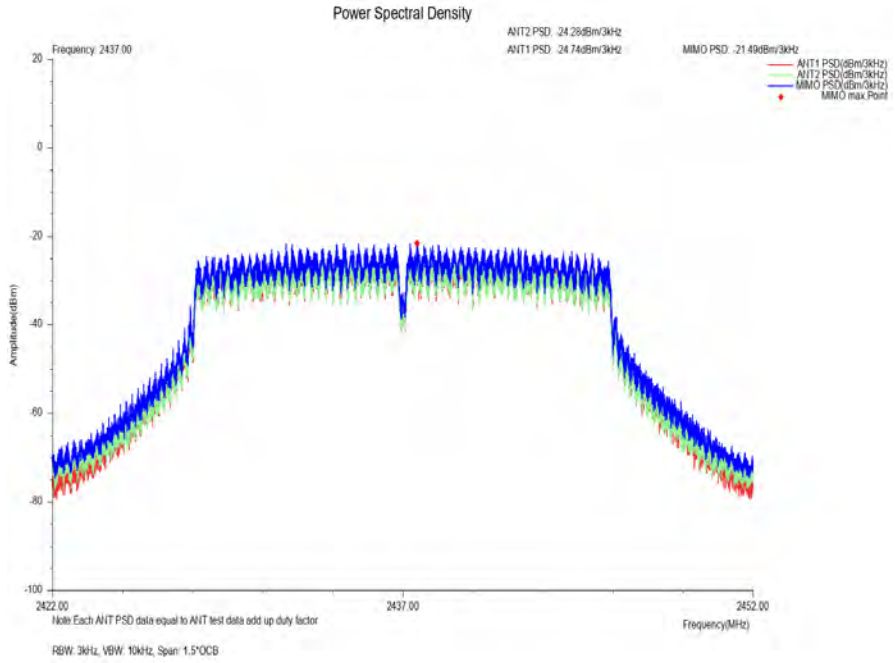


Condition	Antenna	Modulation	Frequency (MHz)	SA_MIMO_PSD(dBm/3kHz)	RB factor(dB)	MIMO_PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	MIMO_TX	802.11n(HT20)	2412.00	-21.31	0	-21.31	8	Pass
NVNT	MIMO_TX	802.11n(HT20)	2437.00	-21.49	0	-21.49	8	Pass
NVNT	MIMO_TX	802.11n(HT20)	2462.00	-20.80	0	-20.80	8	Pass
NVNT	MIMO_TX	802.11n(HT40)	2422.00	-24.10	0	-24.10	8	Pass
NVNT	MIMO_TX	802.11n(HT40)	2437.00	-24.26	0	-24.26	8	Pass
NVNT	MIMO_TX	802.11n(HT40)	2452.00	-22.02	0	-22.02	8	Pass

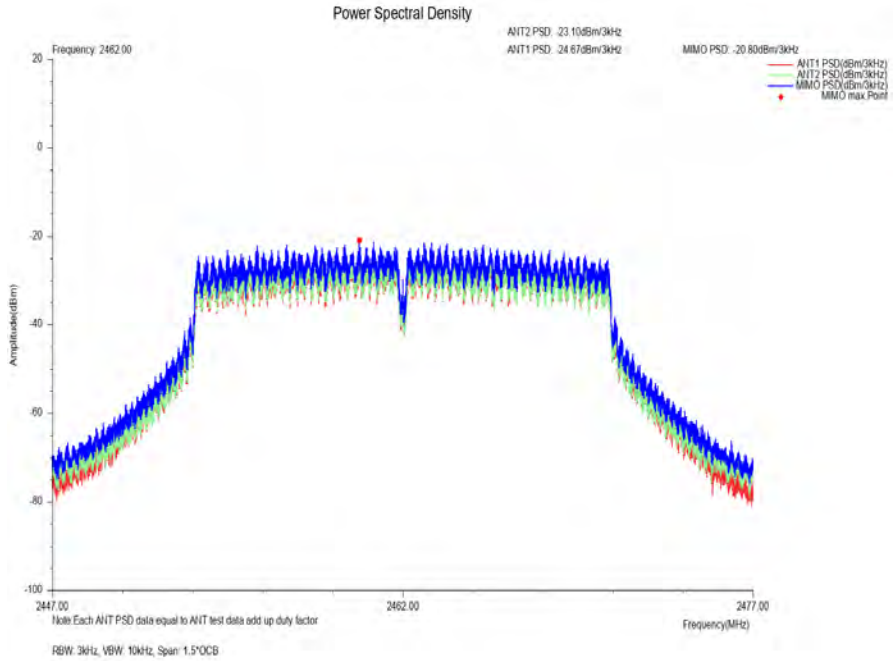
NVNT_MIMO_TX_802_11n(HT20)_Power_Spectral_Density_2412



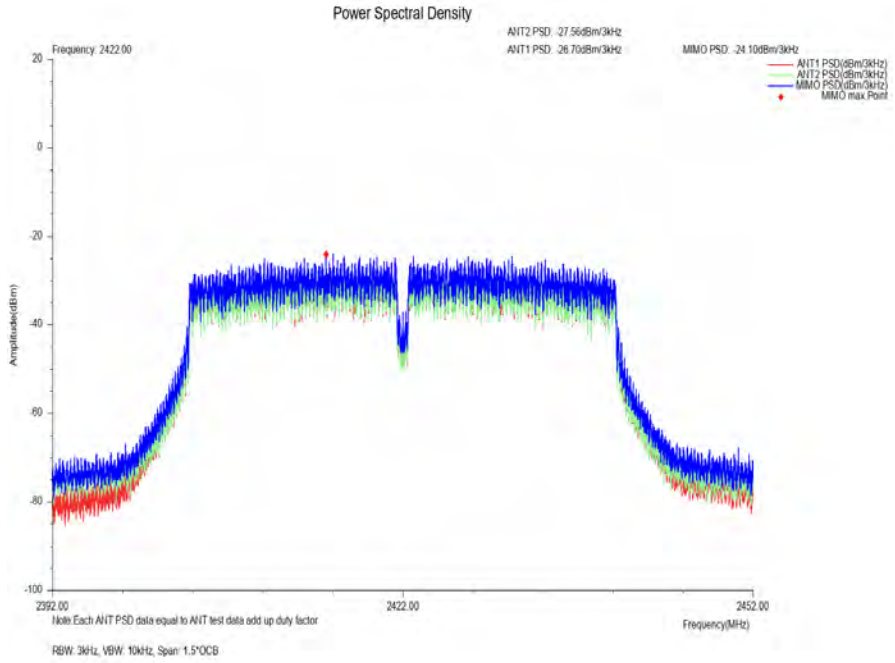
NVNT_MIMO_TX_802_11n(HT20)_Power_Spectral_Density_2437



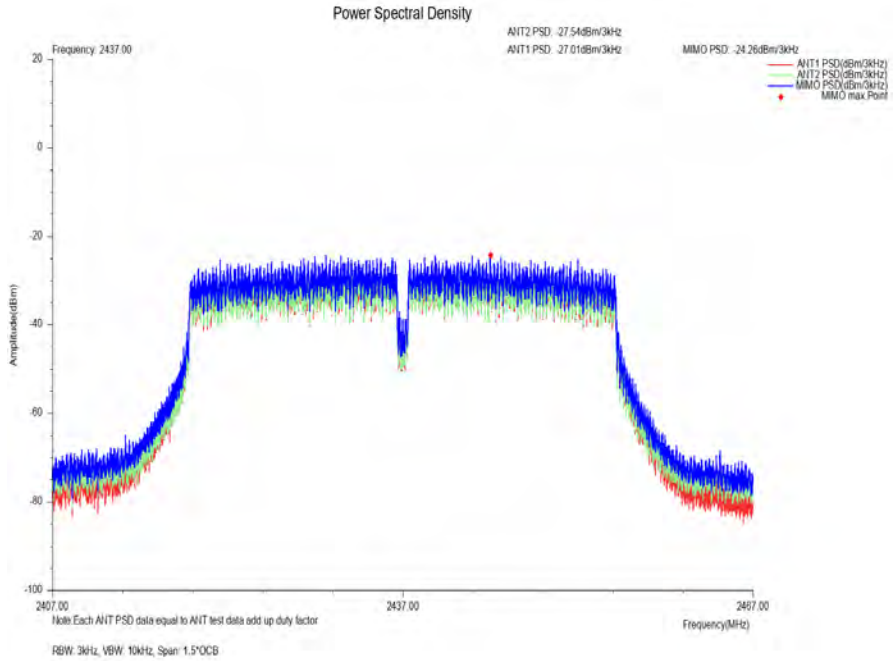
NVNT_MIMO_TX_802_11n(HT20)_Power_Spectral_Density_2462



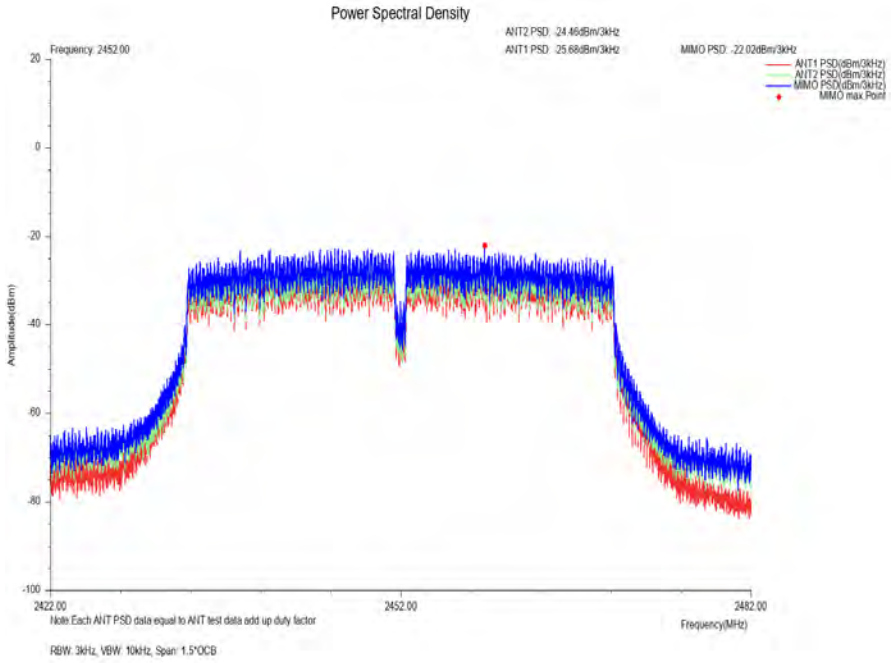
NVNT_MIMO_TX_802_11n(HT40)_Power_Spectral_Density_2422



NVNT_MIMO_TX_802_11n(HT40)_Power_Spectral_Density_2437



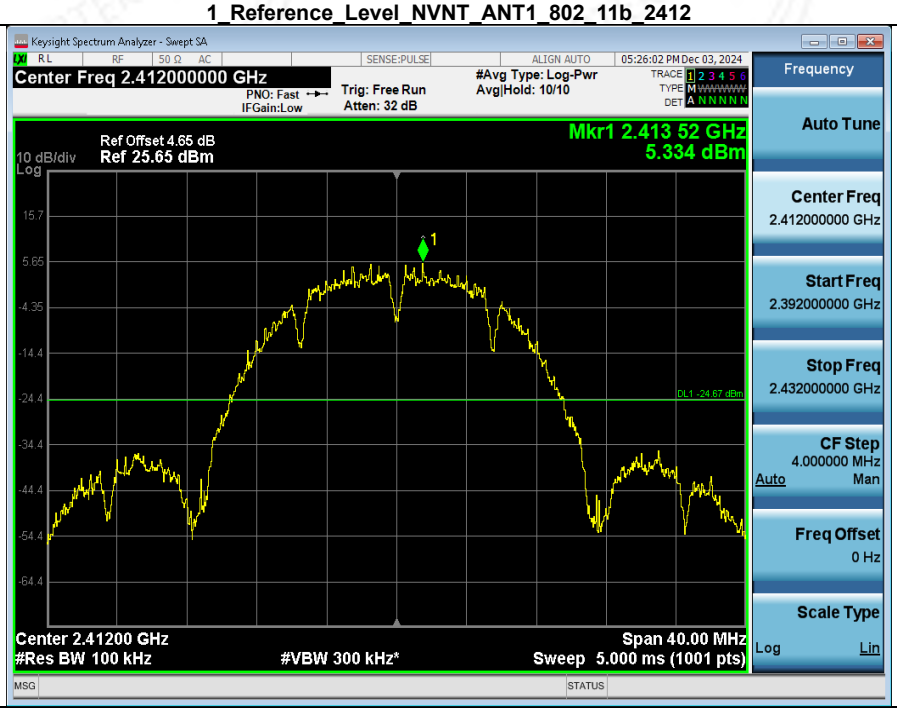
NVNT_MIMO_TX_802_11n(HT40)_Power_Spectral_Density_2452


Power Spectral Density
Frequency: 2452.00
ANT2 PSD: -24.46dBm/3kHz
ANT1 PSD: -25.68dBm/3kHz
MIMO PSD: -22.02dBm/3kHz
ANT1 PSD(dBm/3kHz)
ANT2 PSD(dBm/3kHz)
MIMO PSD(dBm/3kHz)
MIMO max Point
20
0
-20
-40
-60
-80
-100
Amplitude(dBm)
2422.00
2452.00
2482.00
Frequency(MHz)
Note:Each ANT PSD data equal to ANT test data add up duty factor
RBW: 3kHz, VBW: 10kHz, Span: 1.5*OCB

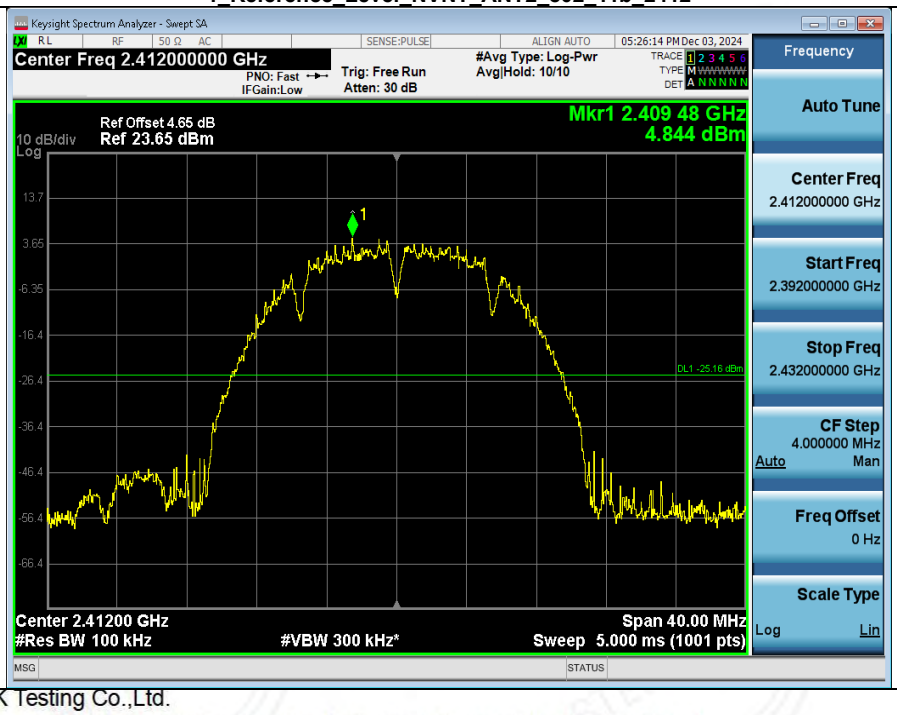
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2397.472	-38.072	-24.666	Pass
NVNT	ANT2	802.11b	2412.00	2397.248	-46.493	-24.666	Pass
NVNT	ANT1	802.11b	2462.00	2486.656	-56.492	-25.515	Pass
NVNT	ANT2	802.11b	2462.00	2486.416	-53.960	-25.515	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-41.564	-30.763	Pass
NVNT	ANT2	802.11g	2412.00	2399.712	-37.454	-30.763	Pass
NVNT	ANT1	802.11g	2462.00	2483.632	-55.165	-31.552	Pass
NVNT	ANT2	802.11g	2462.00	2484.592	-47.876	-31.552	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	-42.392	-32.135	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	2399.824	-40.367	-32.135	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2485.792	-58.237	-33.079	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	2483.536	-53.873	-33.079	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.892	-48.526	-38.090	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	2399.892	-47.141	-38.090	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.904	-54.553	-35.701	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	2484.428	-44.441	-35.701	Pass

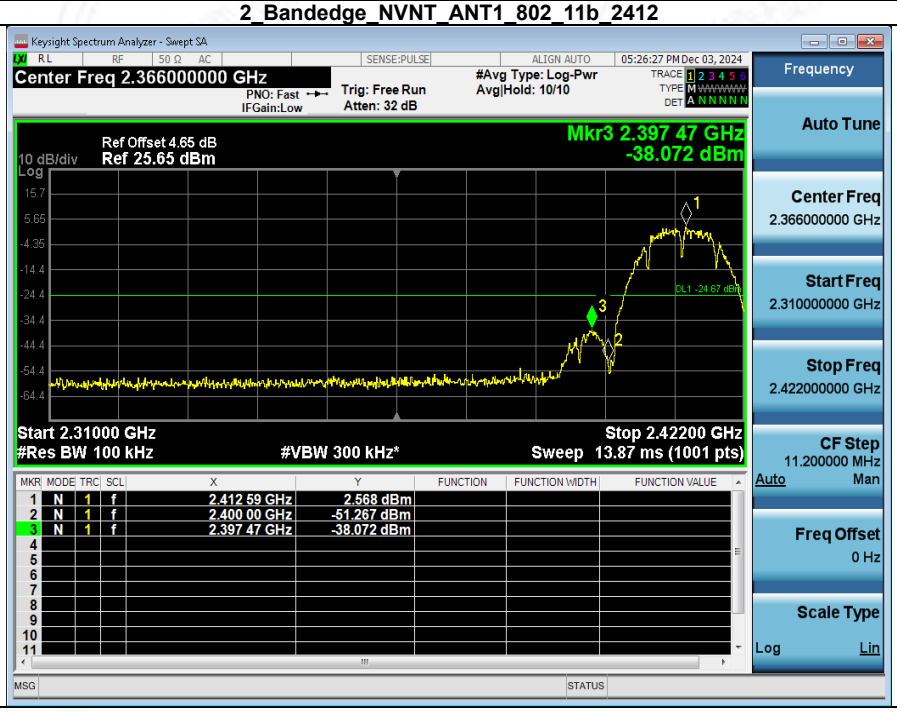
1_Reference_Level_NVNT_ANT1_802_11b_2412



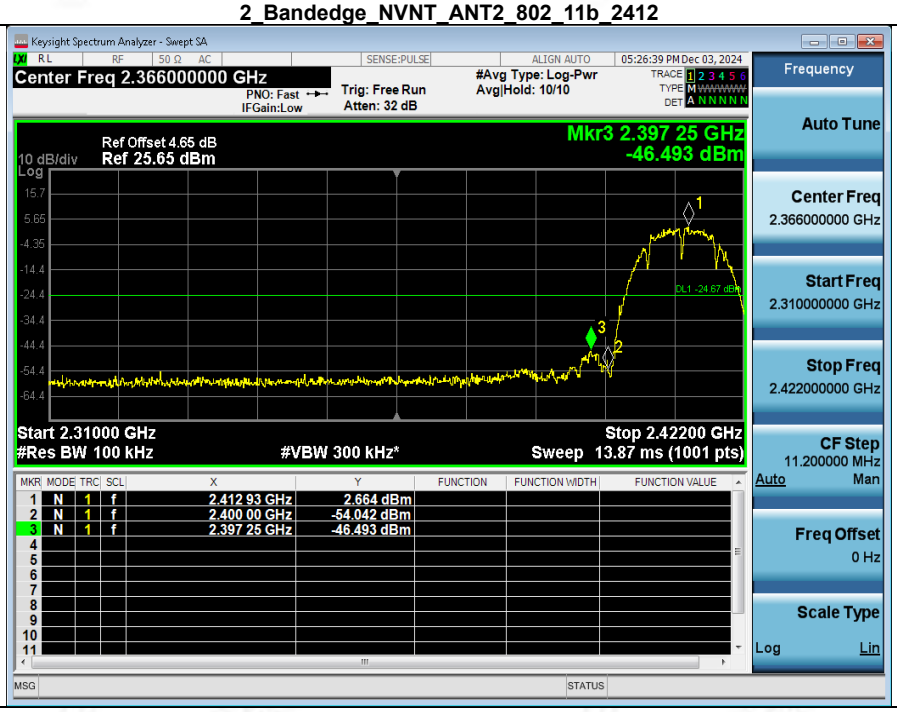
1_Reference_Level_NVNT_ANT2_802_11b_2412



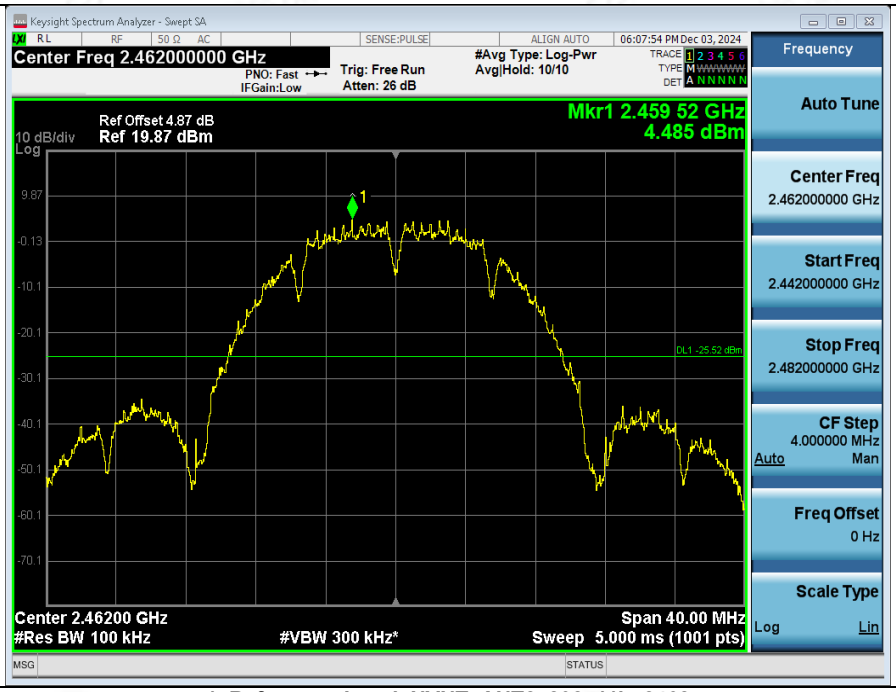
2_Bandedge_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT2_802_11b_2412



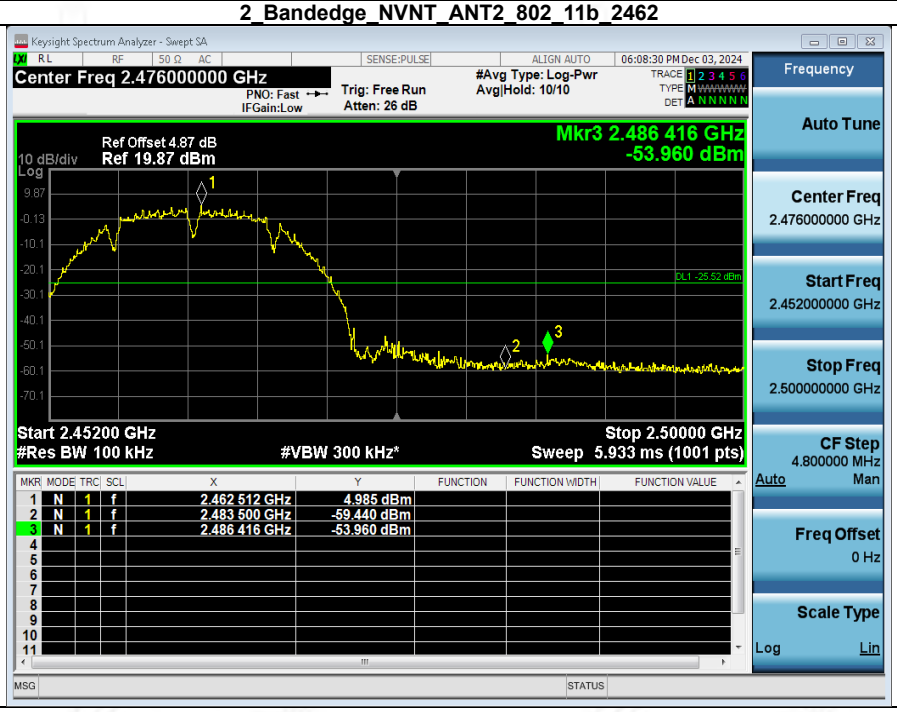
1_Reference_Level_NVNT_ANT1_802_11b_2462



1_Reference_Level_NVNT_ANT2_802_11b_2462

2_Bandedge_NVNT_ANT1_802_11b_2462

2_Bandedge_NVNT_ANT2_802_11b_2462



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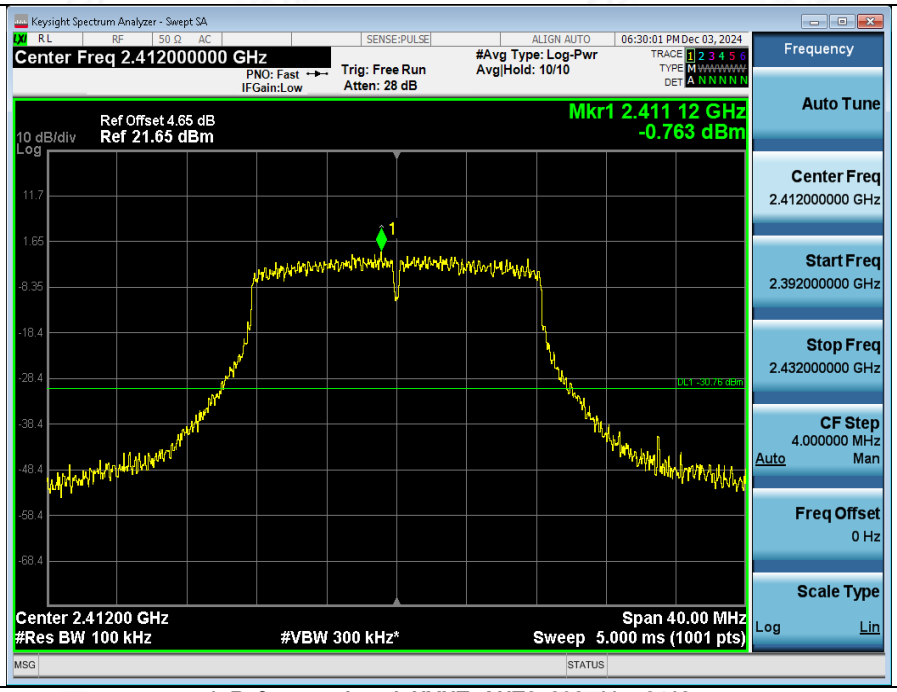

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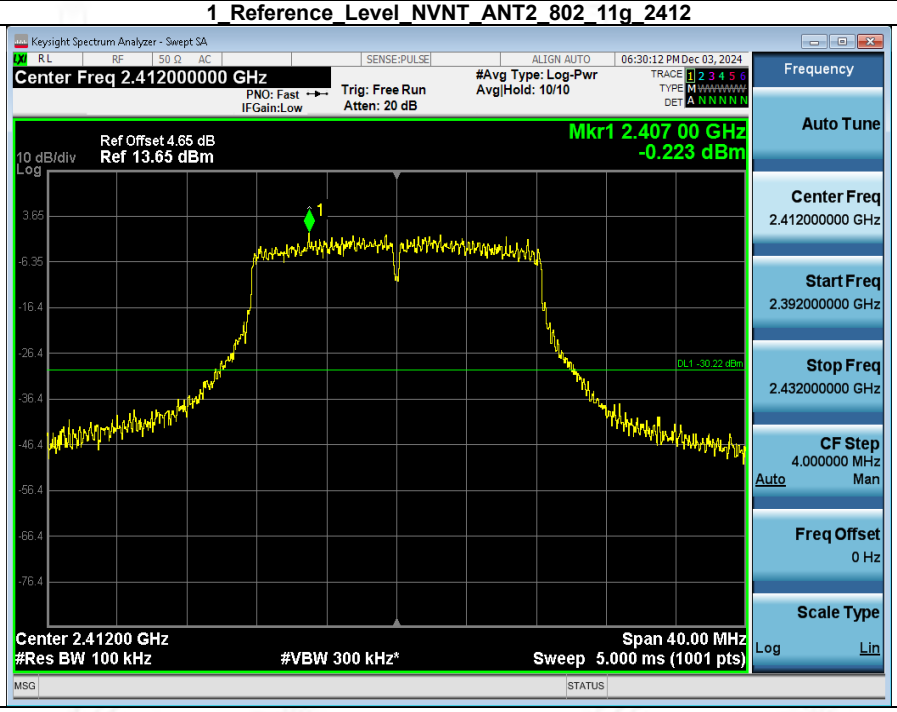
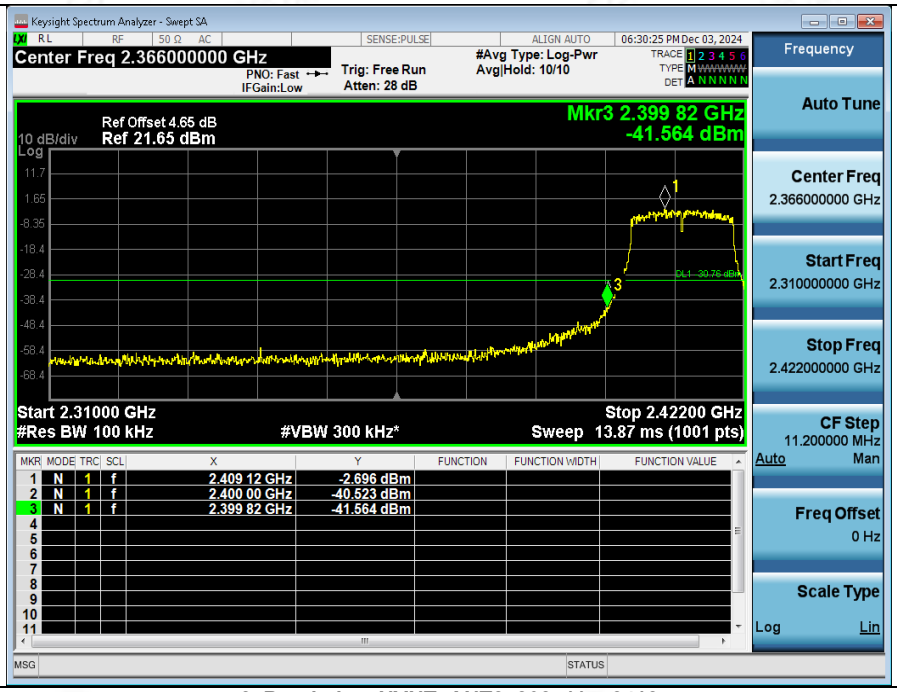


2_Bandedge_NVNT_ANT1_802_11g_2412



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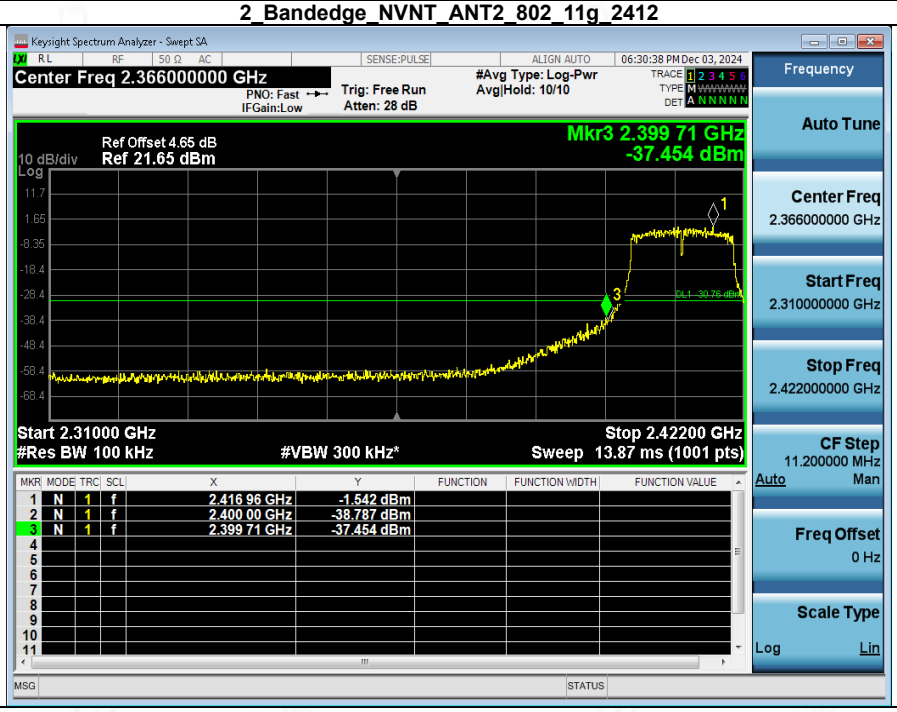
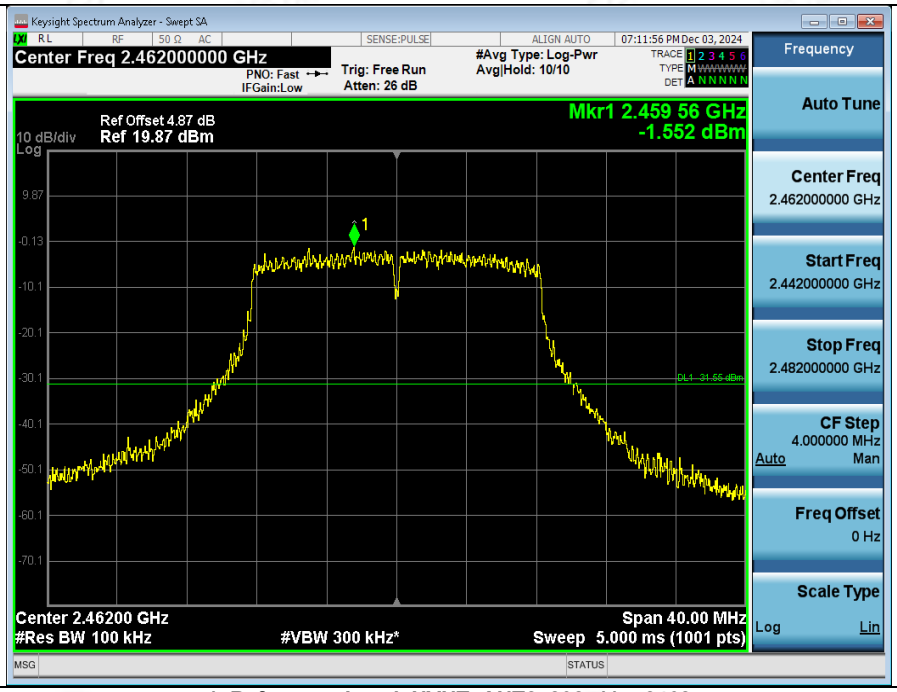


1_Reference_Level_NVNT_ANT1_802_11g_2462



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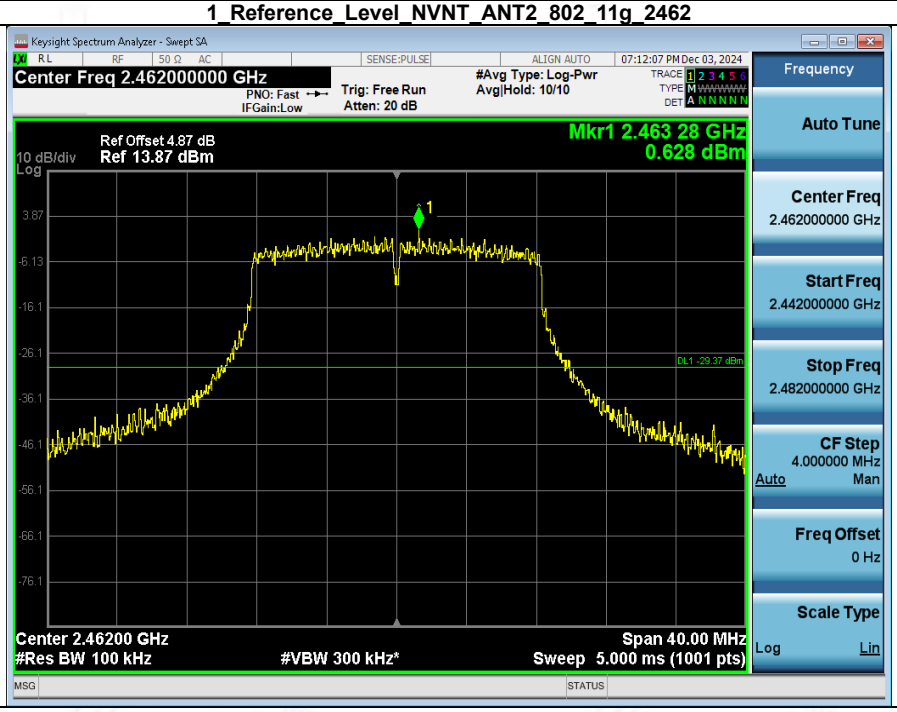
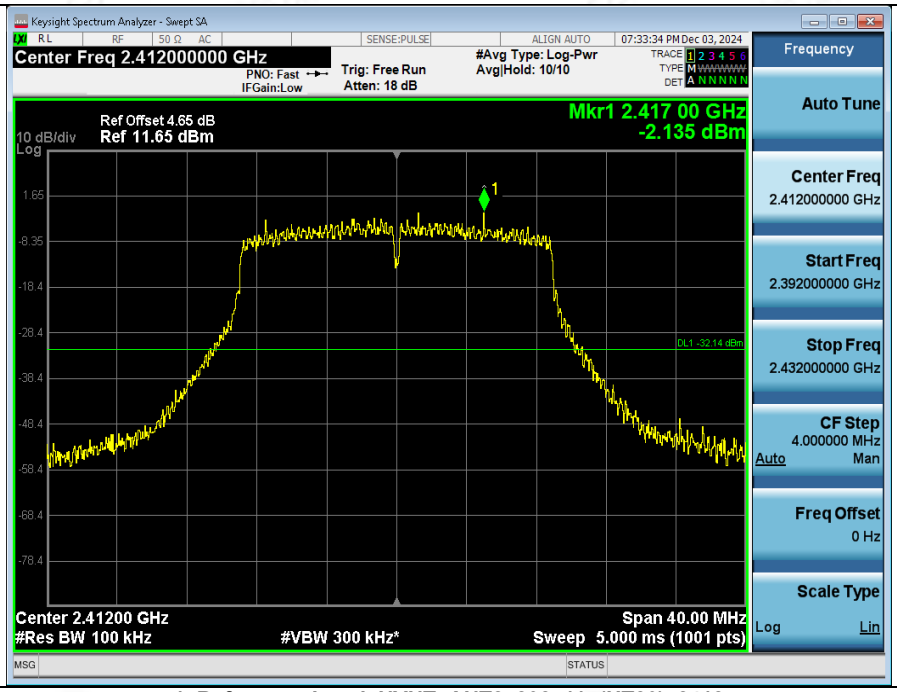


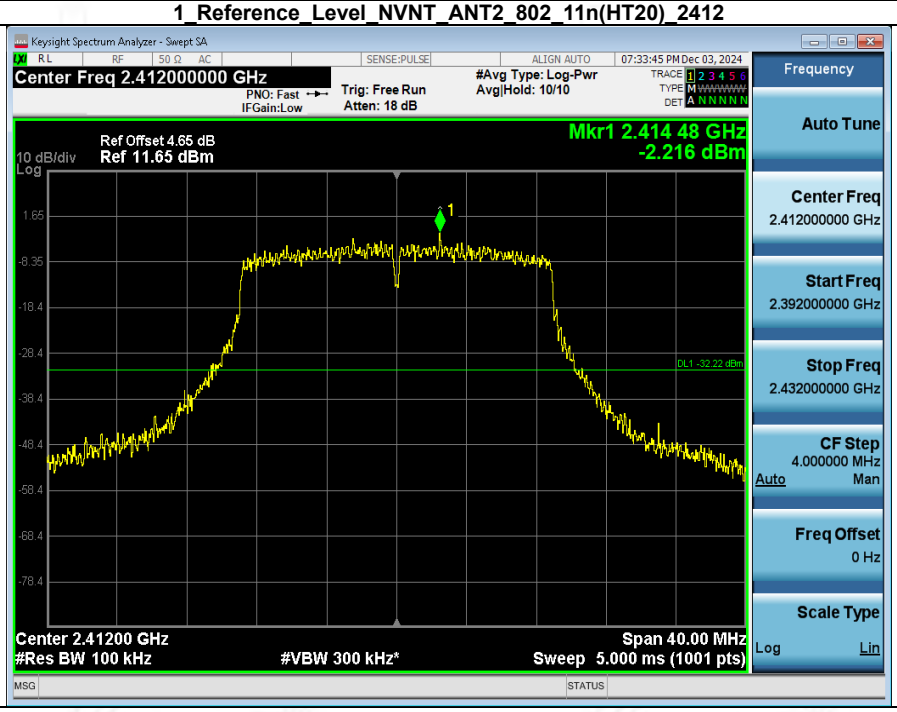
2_Bandedge_NVNT_ANT1_802_11g_2462

2_Bandedge_NVNT_ANT2_802_11g_2462

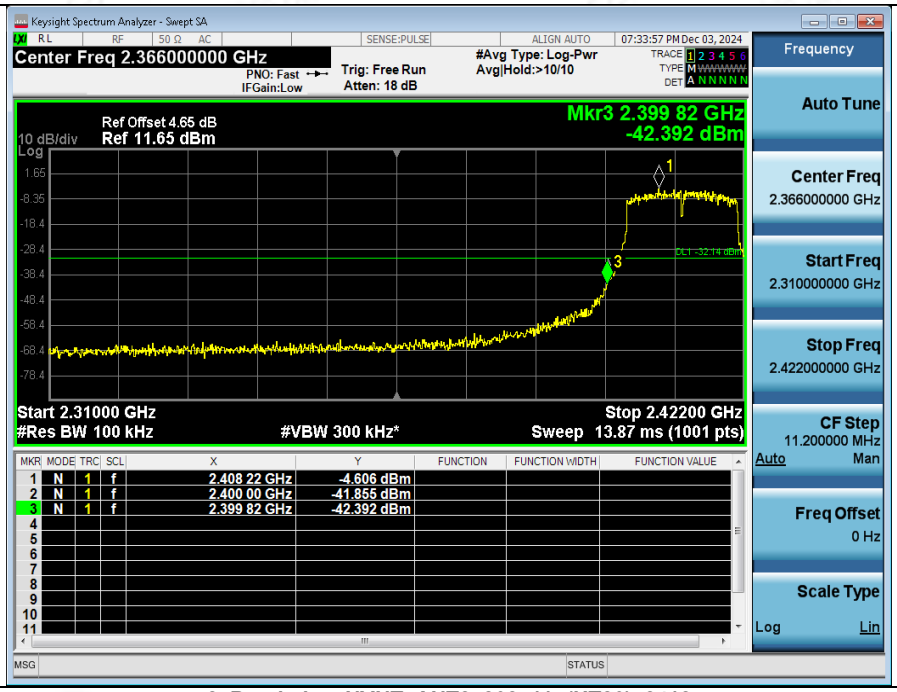
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



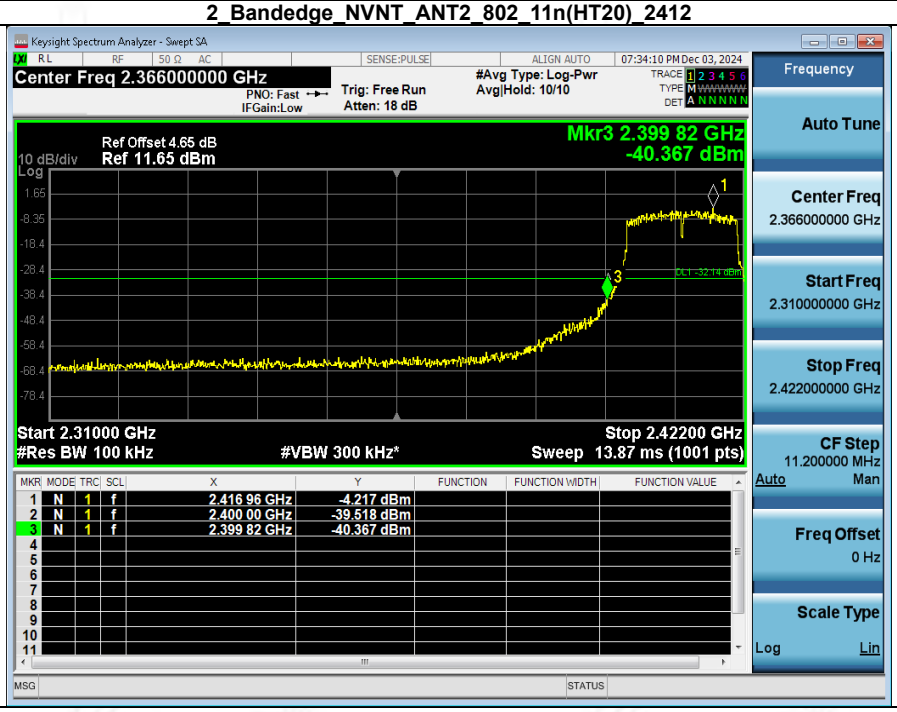
1_Reference_Level_NVNT_ANT2_802_11n(HT20)_2412



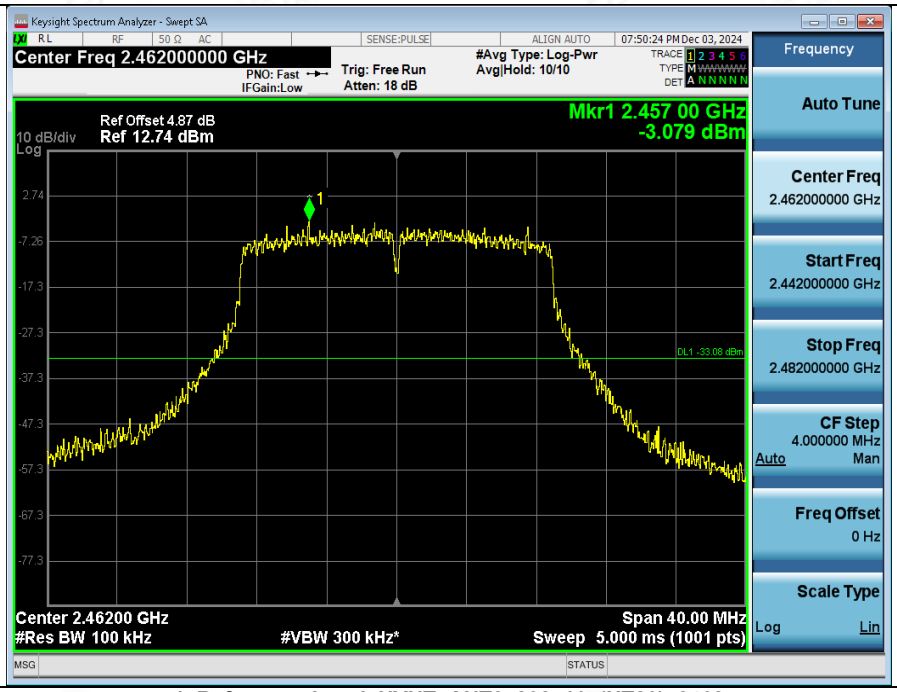
2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



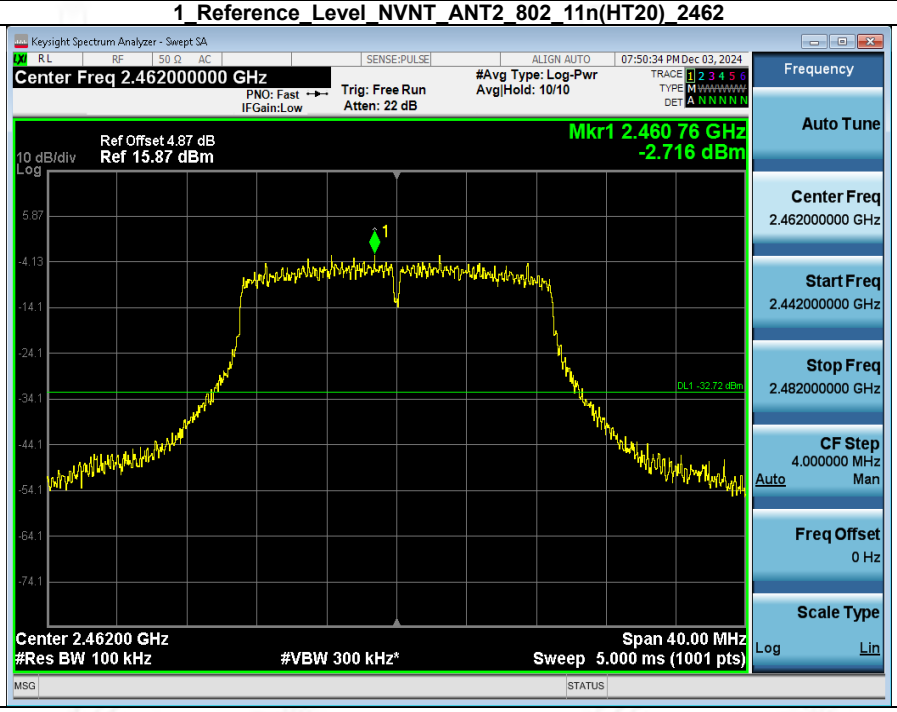
2_Bandedge_NVNT_ANT2_802_11n(HT20)_2412



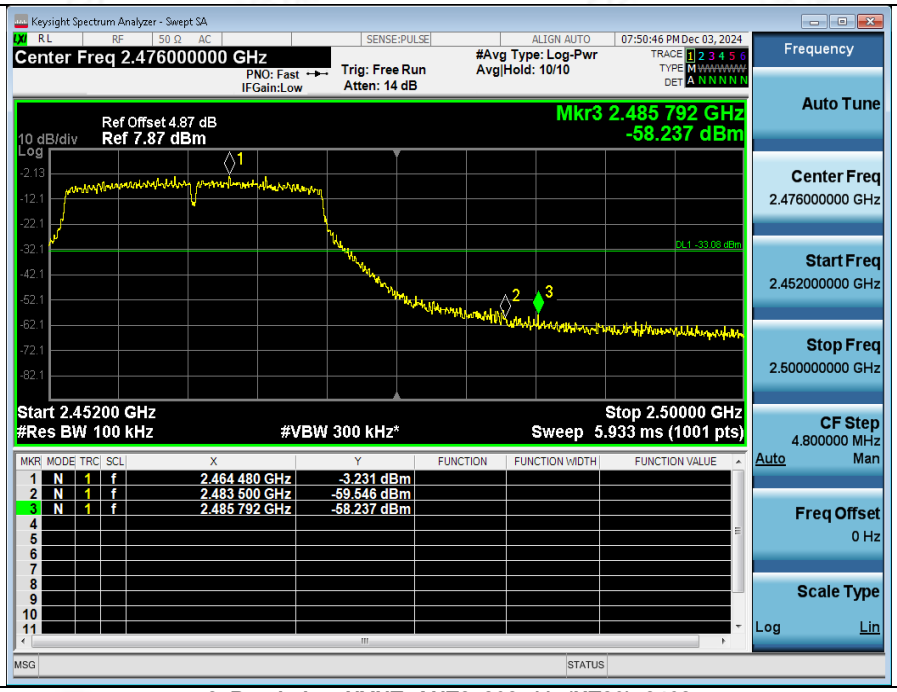
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



1_Reference_Level_NVNT_ANT2_802_11n(HT20)_2462

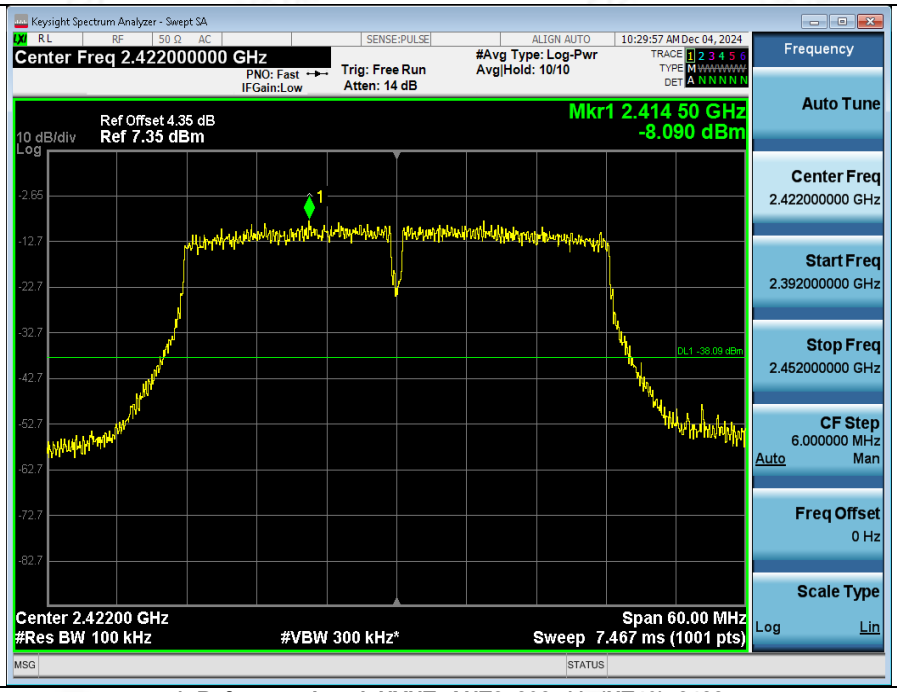


2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT2_802_11n(HT20)_2462

1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



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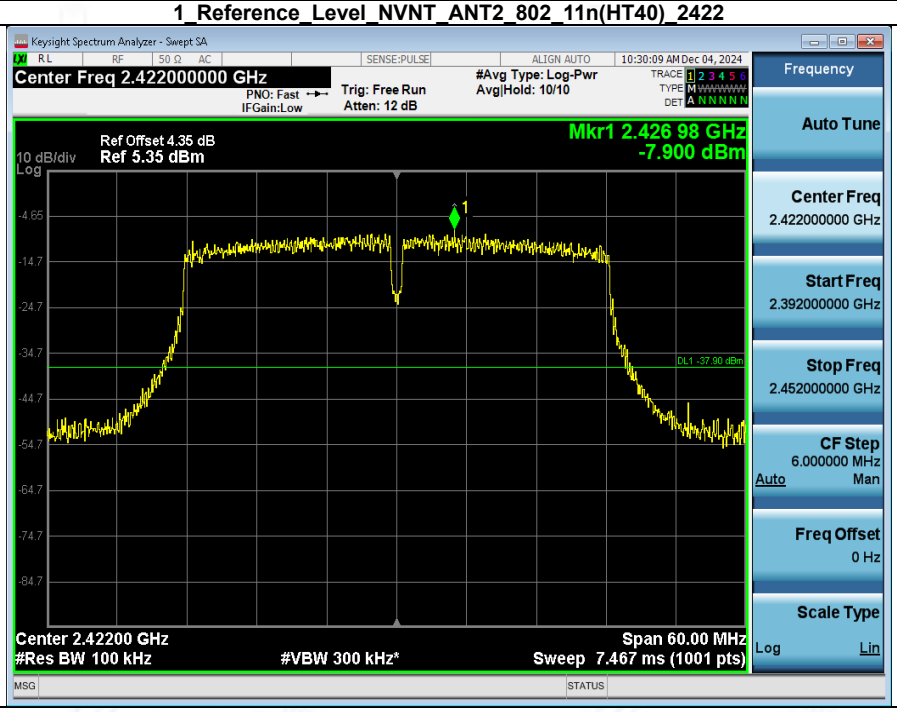

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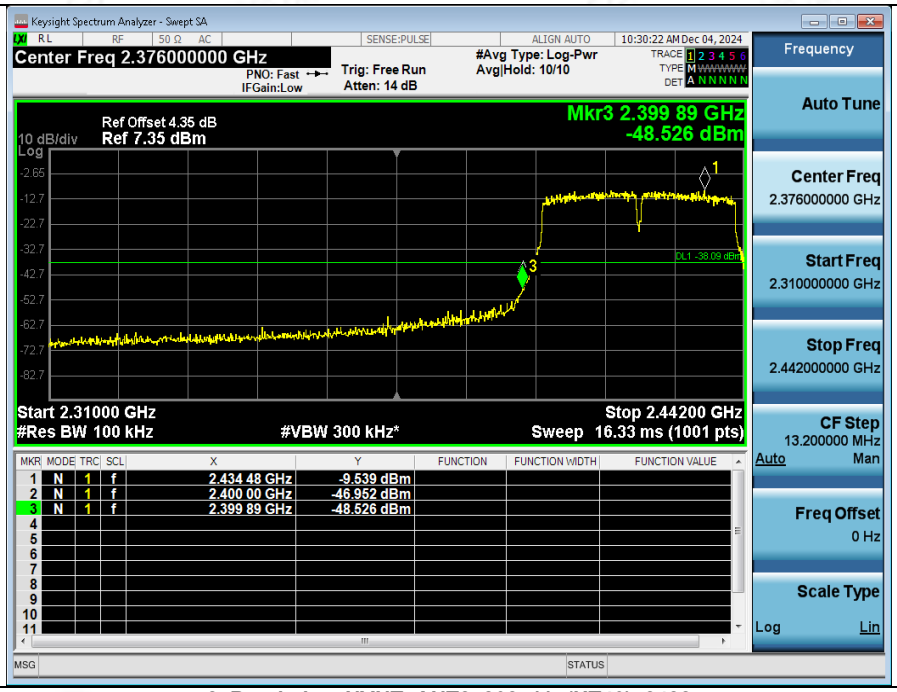

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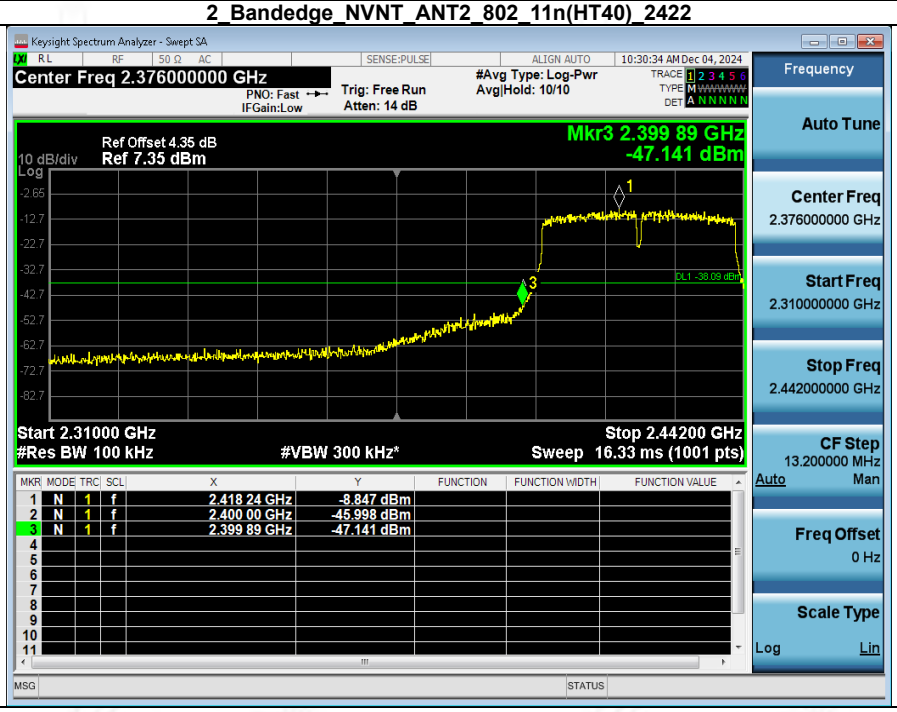
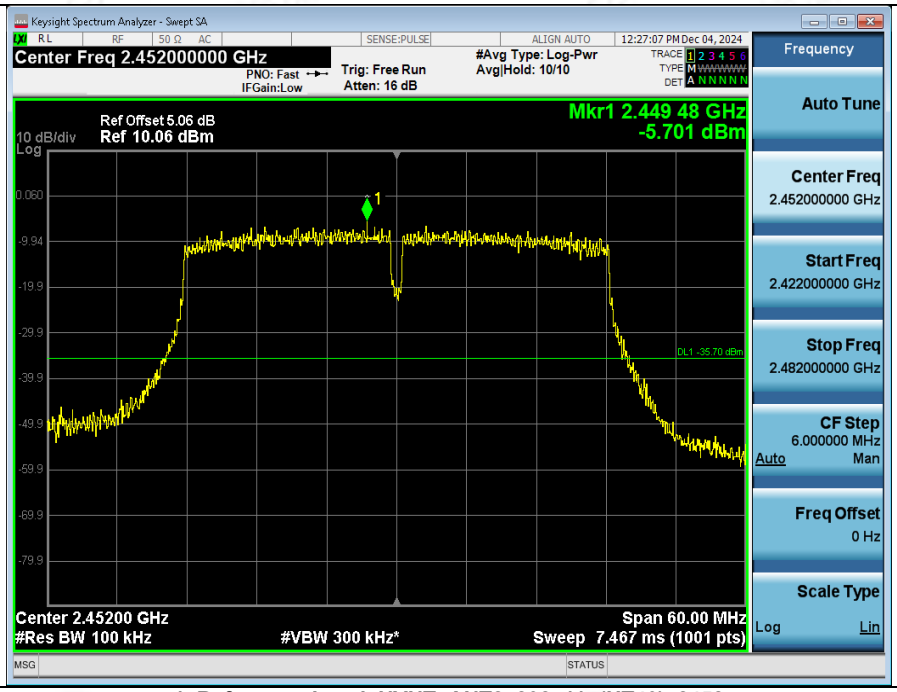


1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



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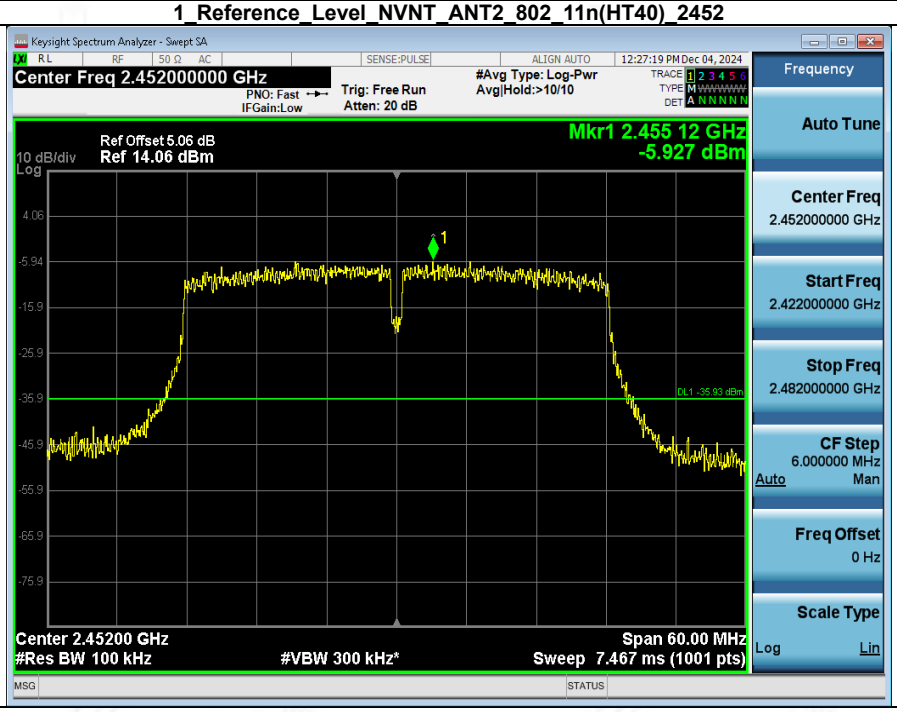

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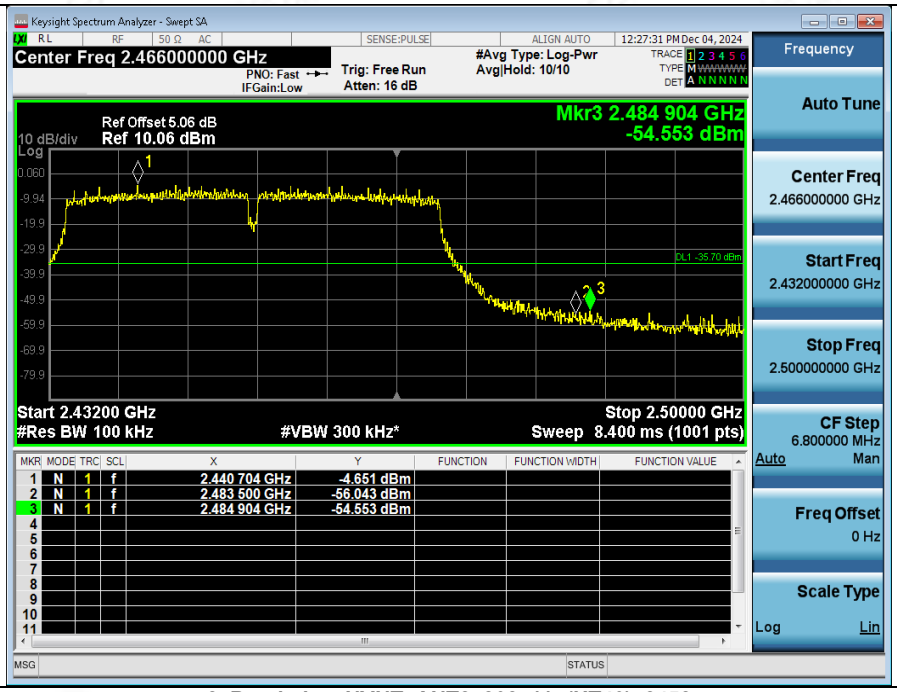
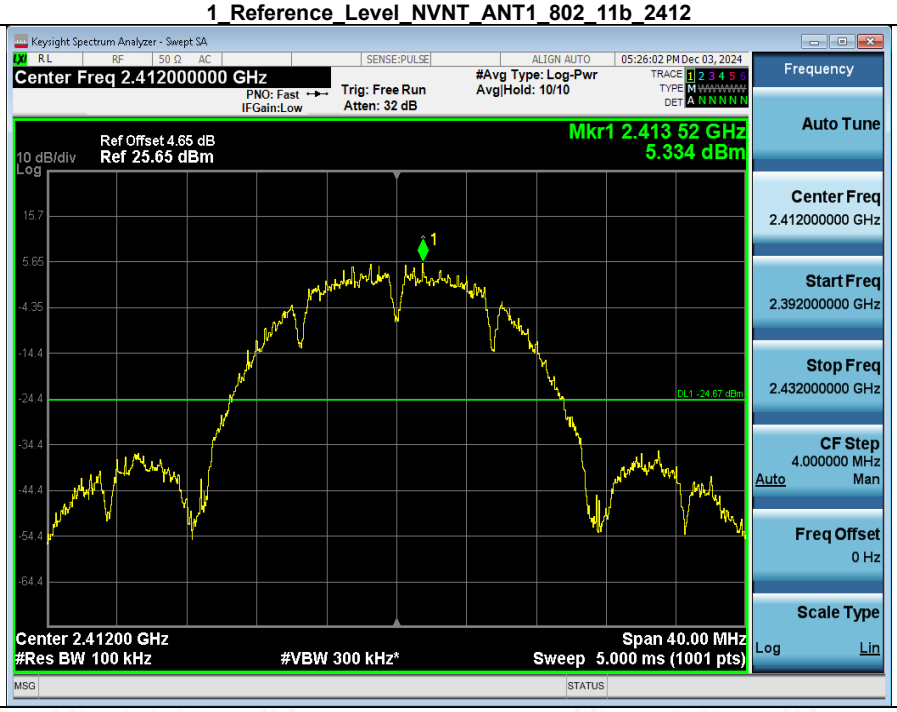


2_Bandedge_NVNT_ANT2_802_11n(HT40)_2452

7. Spurious Emission

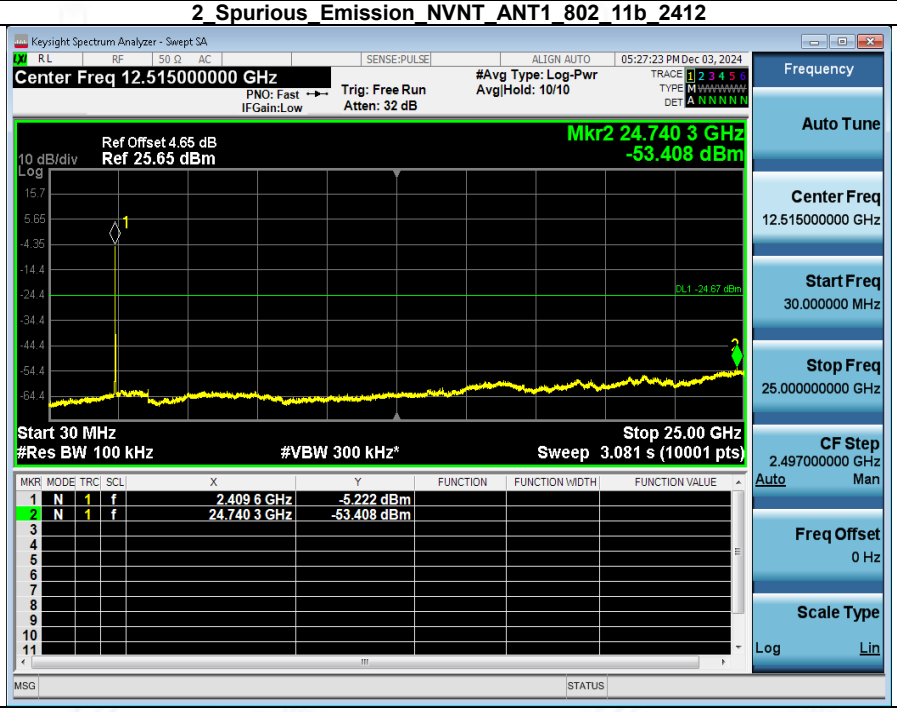
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24740.312	-53.408	-24.666	Pass
NVNT	ANT2	802.11b	2412.00	24727.827	-53.407	-24.666	Pass
NVNT	ANT1	802.11b	2437.00	24897.623	-53.194	-24.291	Pass
NVNT	ANT2	802.11b	2437.00	24862.665	-53.201	-24.291	Pass
NVNT	ANT1	802.11b	2462.00	24767.779	-59.722	-25.515	Pass
NVNT	ANT2	802.11b	2462.00	24747.803	-59.331	-25.515	Pass
NVNT	ANT1	802.11g	2412.00	24687.875	-57.993	-30.763	Pass
NVNT	ANT2	802.11g	2412.00	24637.935	-57.499	-30.763	Pass
NVNT	ANT1	802.11g	2437.00	24737.815	-61.082	-28.569	Pass
NVNT	ANT2	802.11g	2437.00	24802.737	-61.451	-28.569	Pass
NVNT	ANT1	802.11g	2462.00	24790.252	-59.538	-31.552	Pass
NVNT	ANT2	802.11g	2462.00	24617.959	-59.401	-31.552	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24737.815	-68.003	-32.135	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	24685.378	-68.052	-32.135	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24847.683	-63.364	-30.092	Pass
NVNT	ANT2	802.11n(HT20)	2437.00	24857.671	-63.499	-30.092	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24752.797	-63.417	-30.373	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	24890.132	-63.417	-30.373	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24847.683	-72.082	-38.090	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	24837.695	-72.262	-38.090	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24727.827	-67.548	-33.983	Pass
NVNT	ANT2	802.11n(HT40)	2437.00	24780.264	-67.402	-33.983	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24722.833	-69.257	-35.701	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	2502.030	-67.315	-35.701	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412

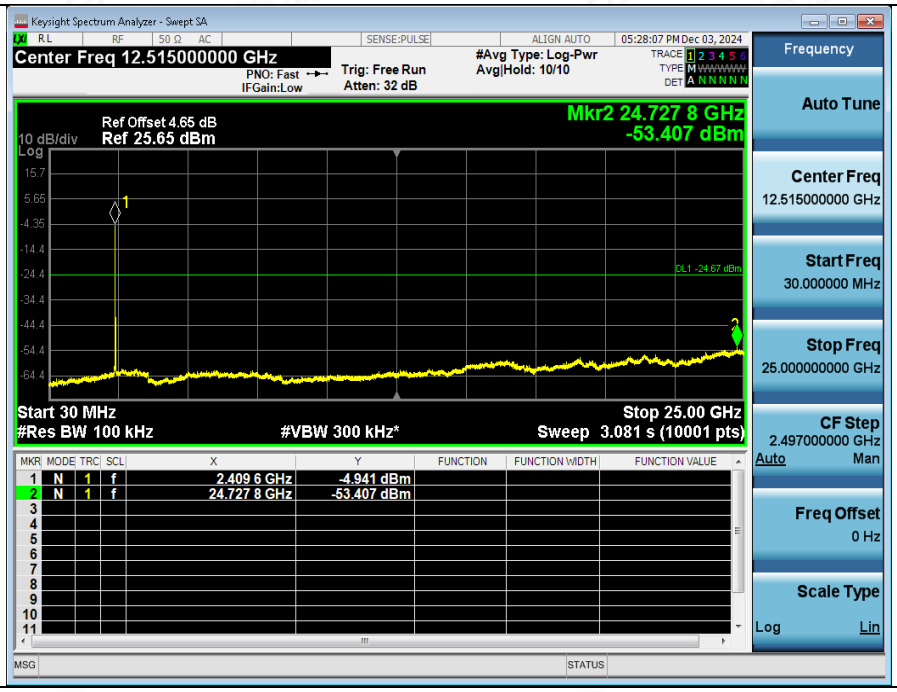


1_Reference_Level_NVNT_ANT2_802_11b_2412

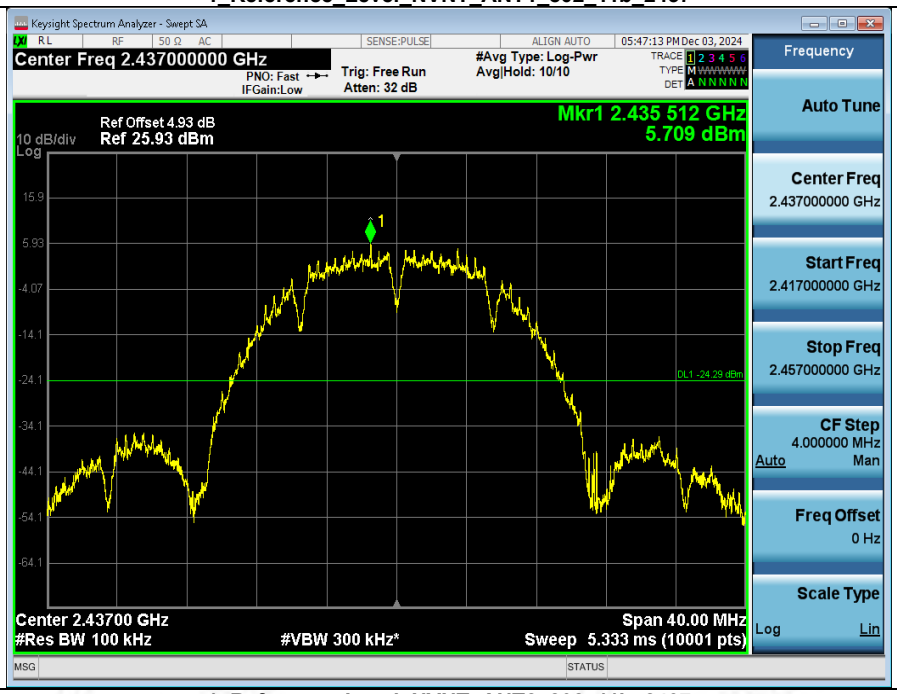
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



2_Spurious_Emission_NVNT_ANT2_802_11b_2412

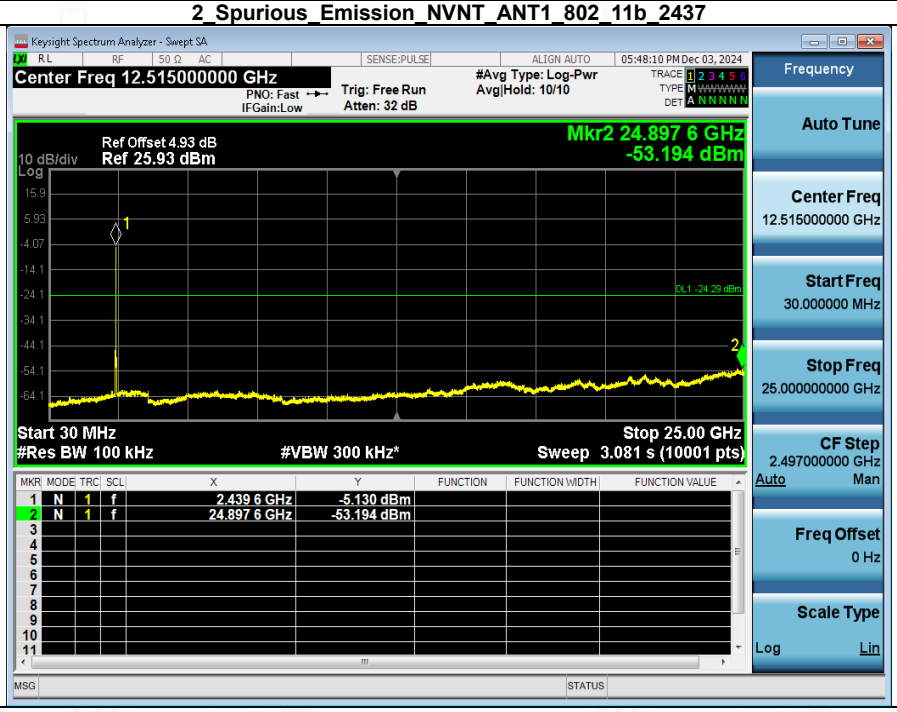


1_Reference_Level_NVNT_ANT1_802_11b_2437

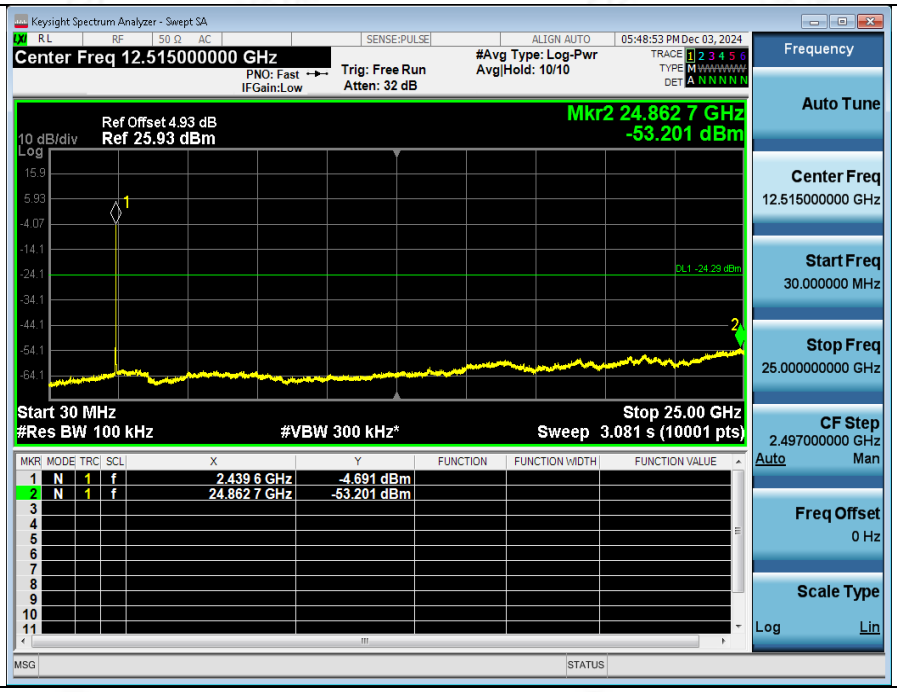


1_Reference_Level_NVNT_ANT2_802_11b_2437

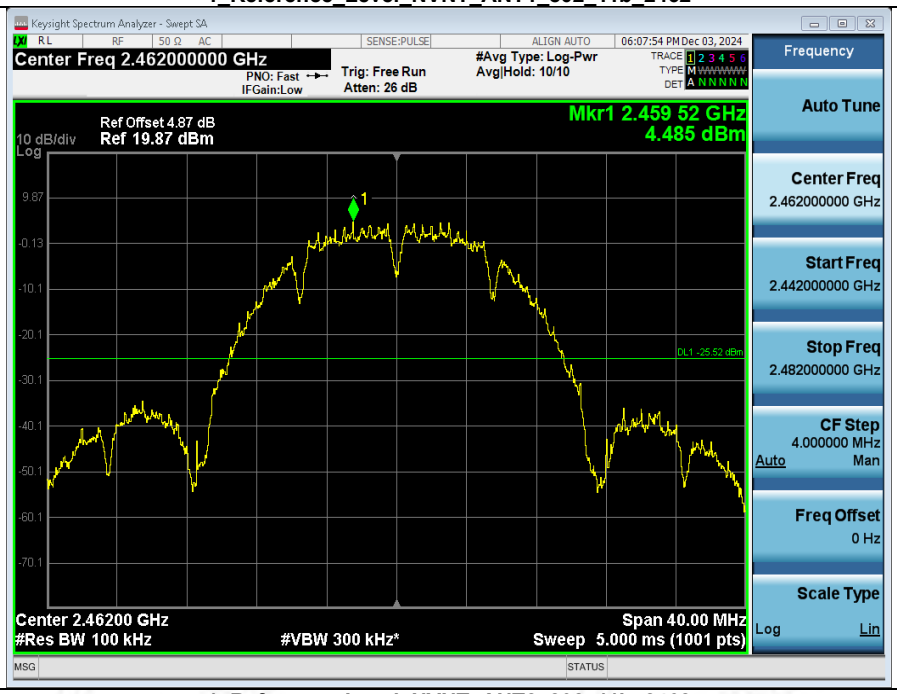
2_Spurious_Emission_NVNT_ANT1_802_11b_2437



2_Spurious_Emission_NVNT_ANT2_802_11b_2437



1_Reference_Level_NVNT_ANT1_802_11b_2462



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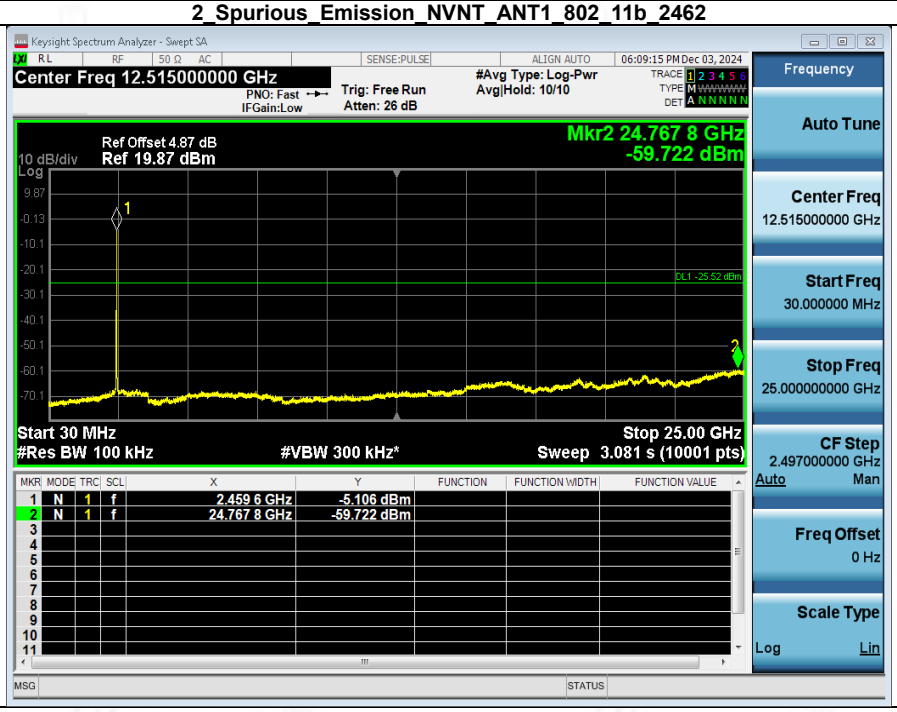
2_Spurious_Emission_NVNT_ANT1_802_11b_2462



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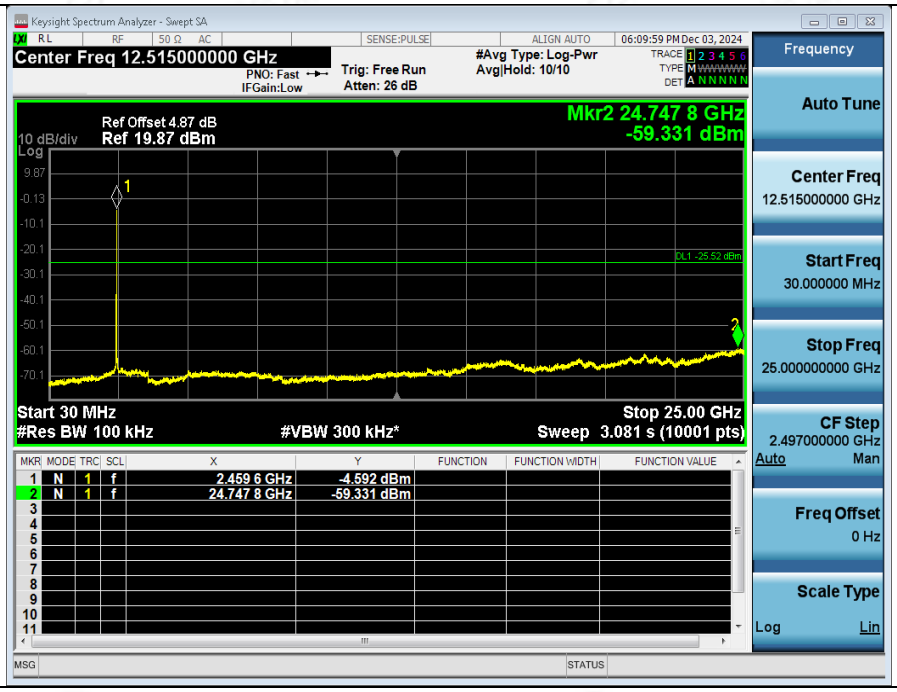
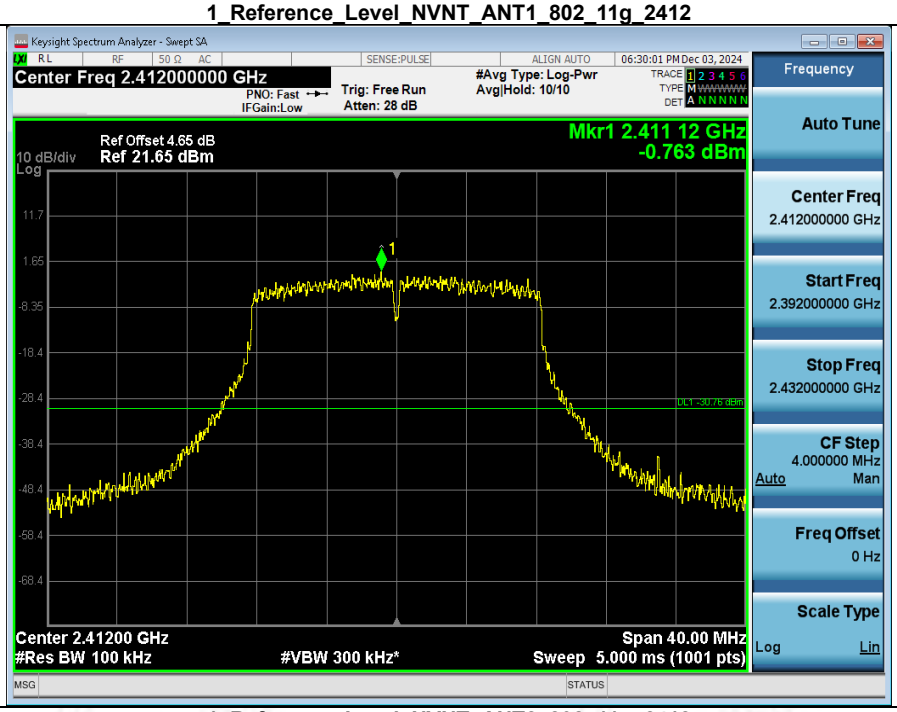


1_Reference_Level_NVNT_ANT1_802_11g_2412



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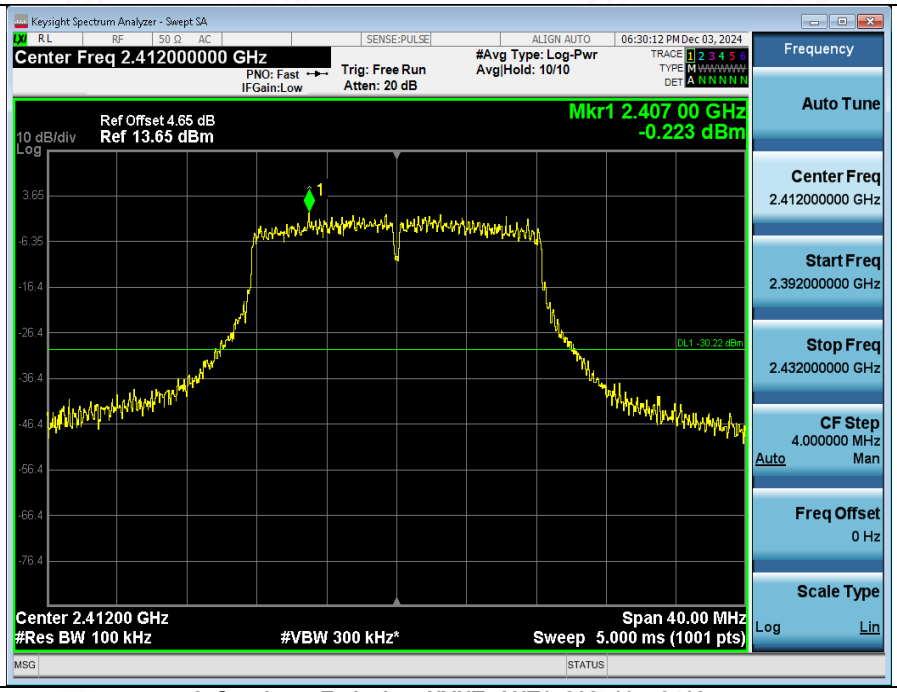

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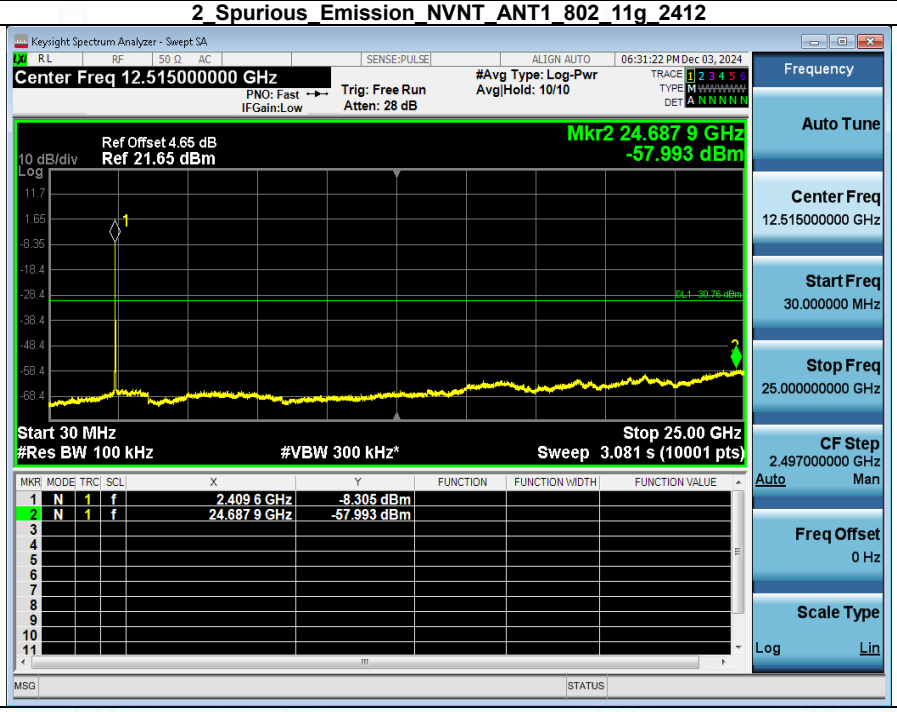

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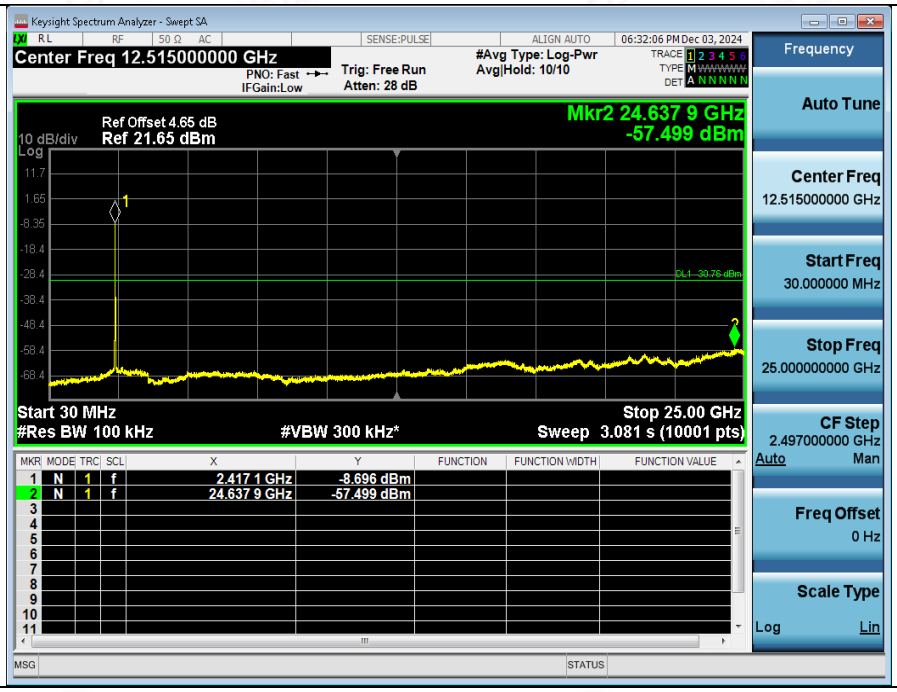

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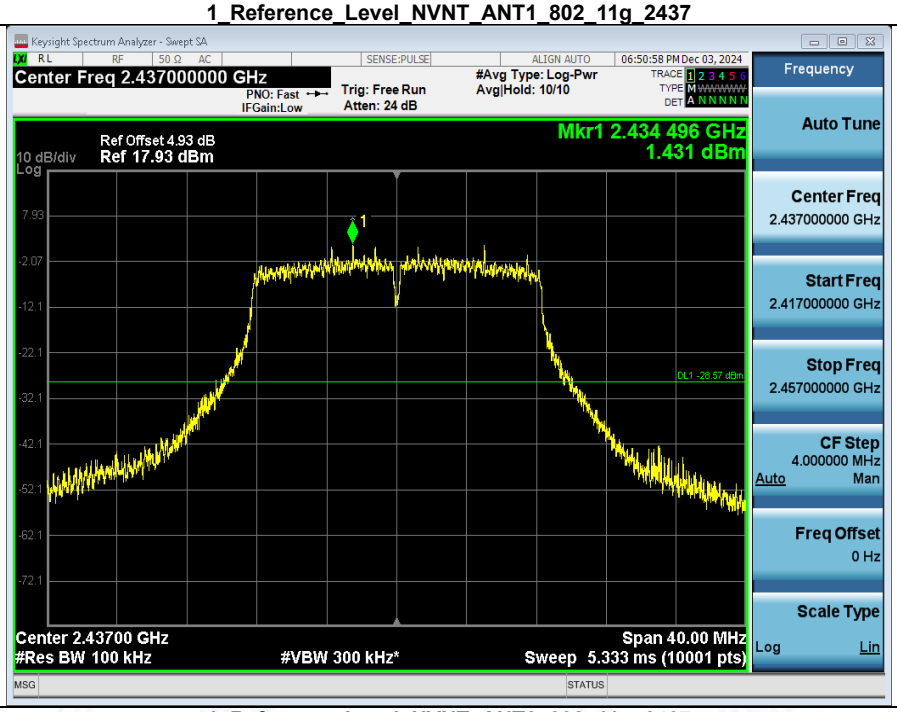

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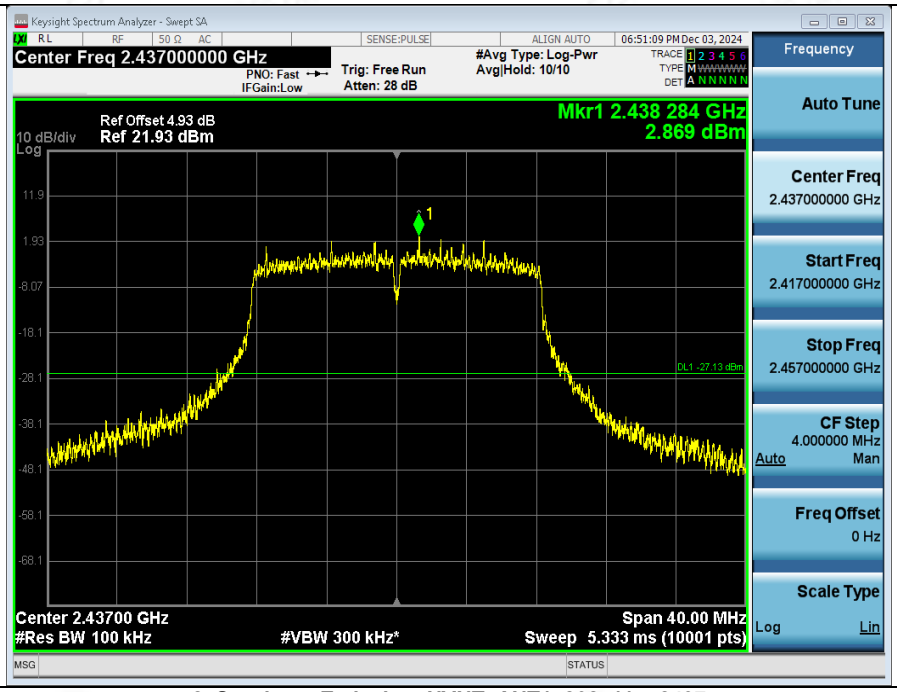

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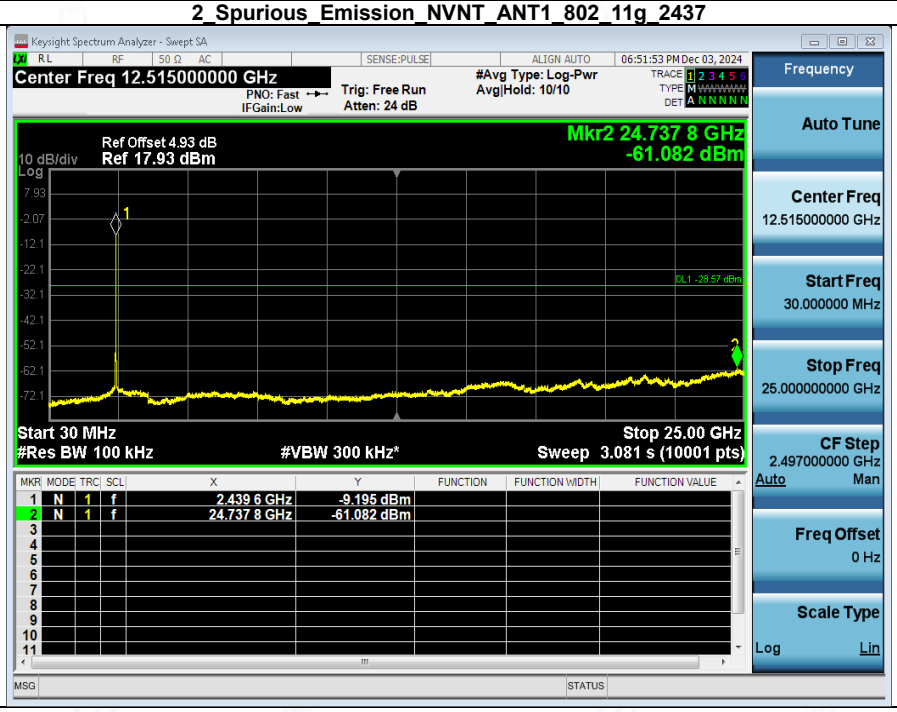

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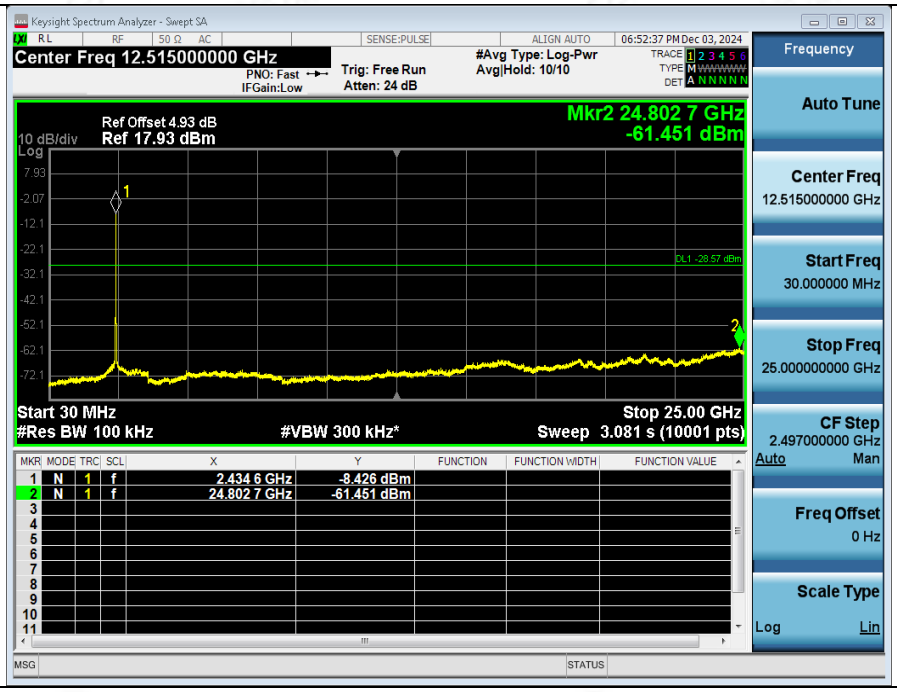

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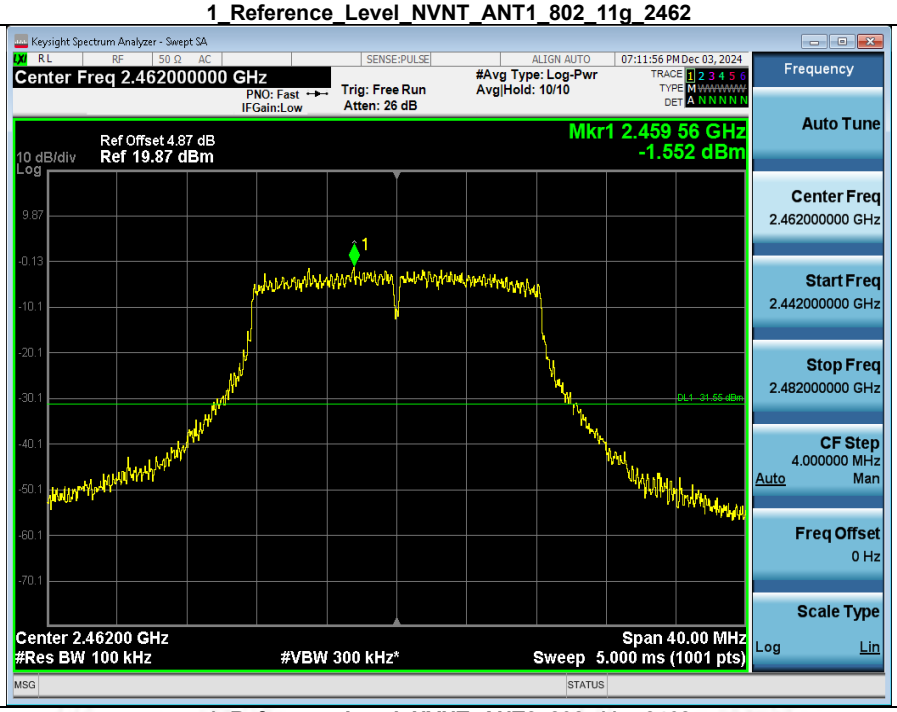

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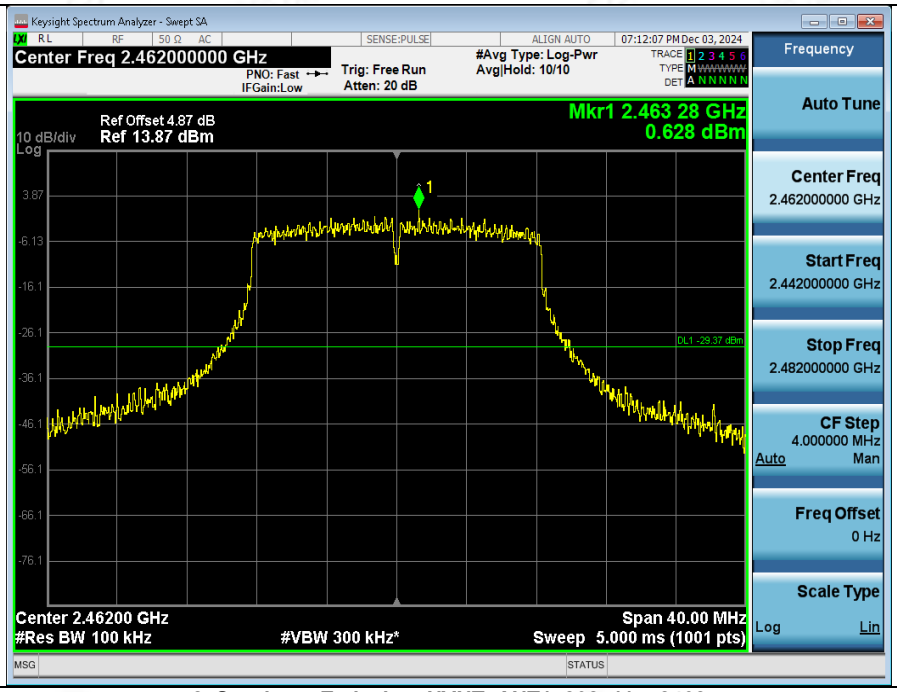

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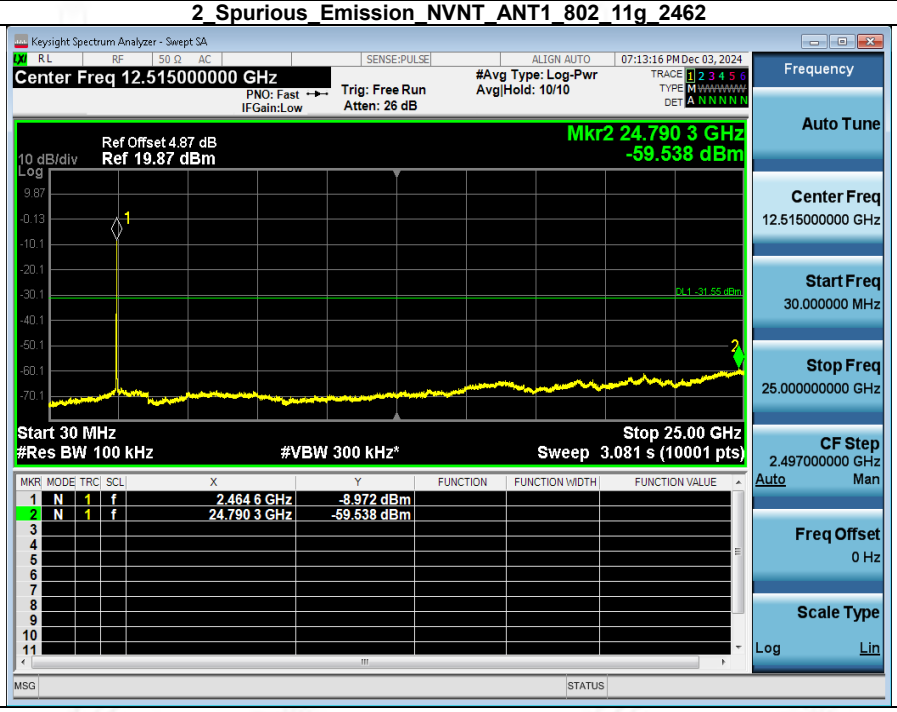

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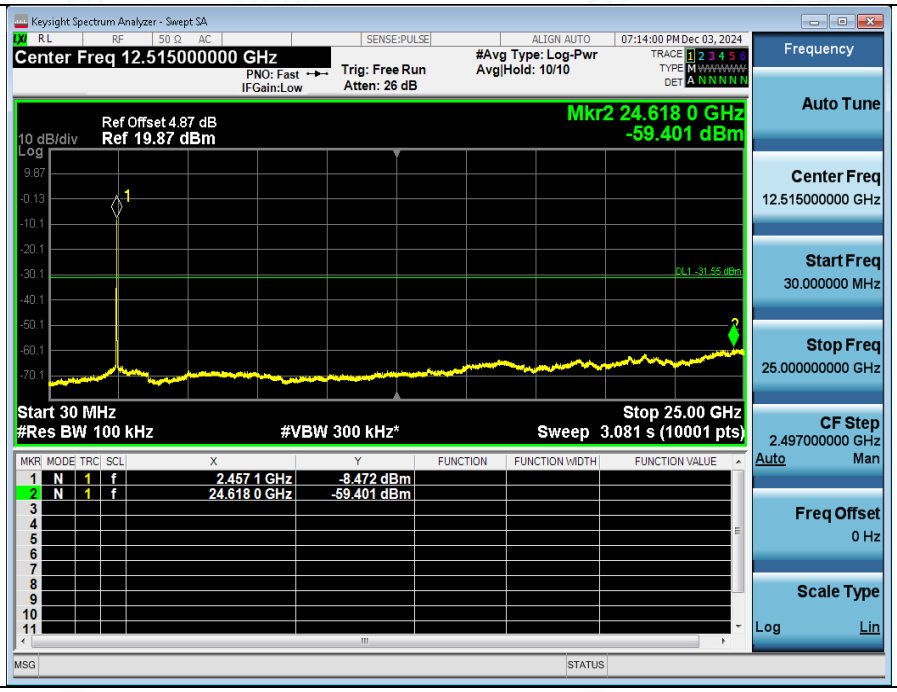
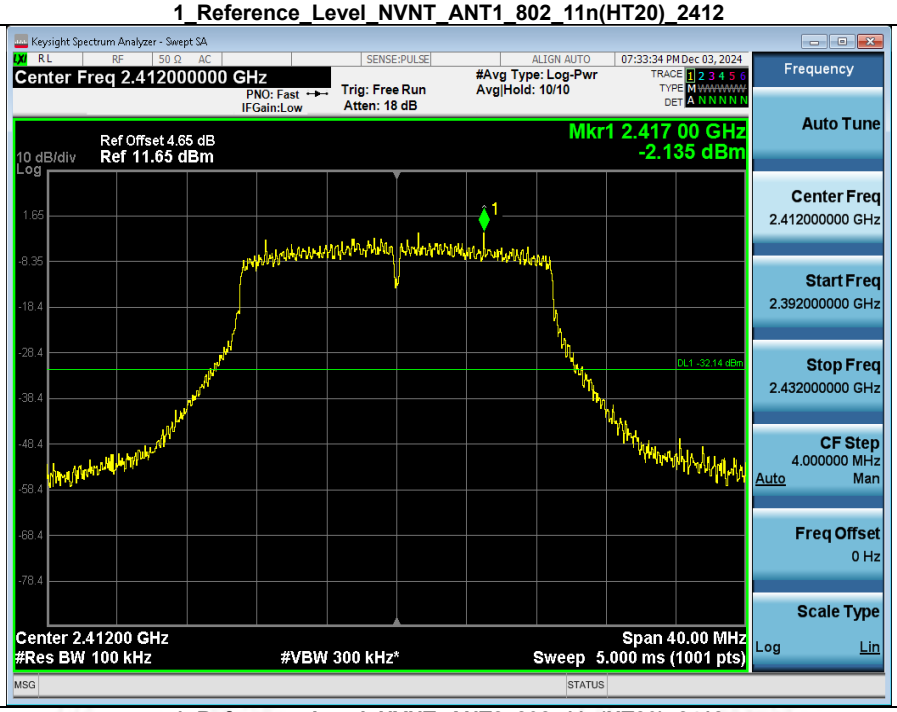


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



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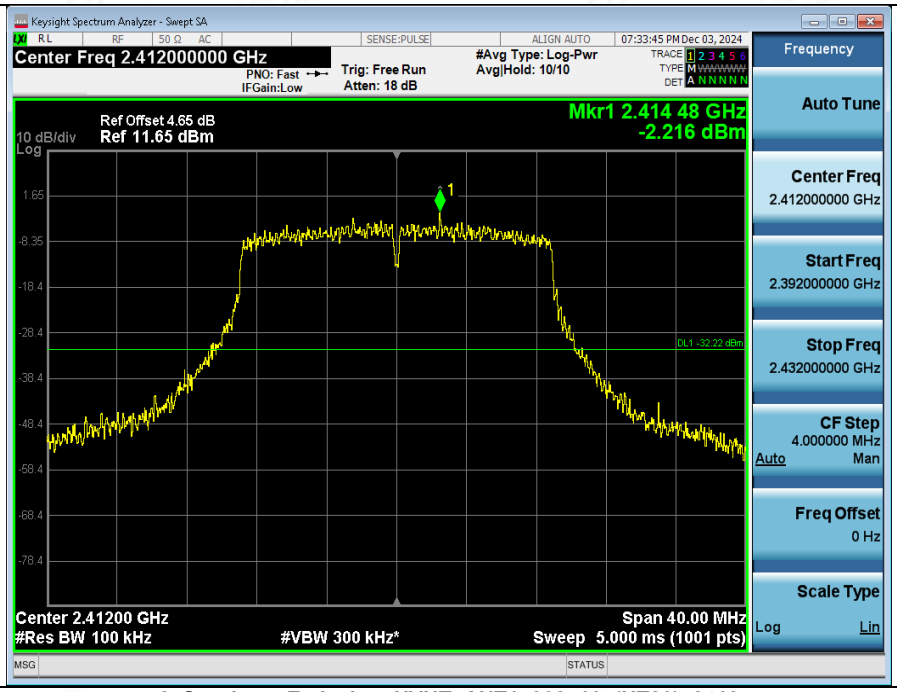

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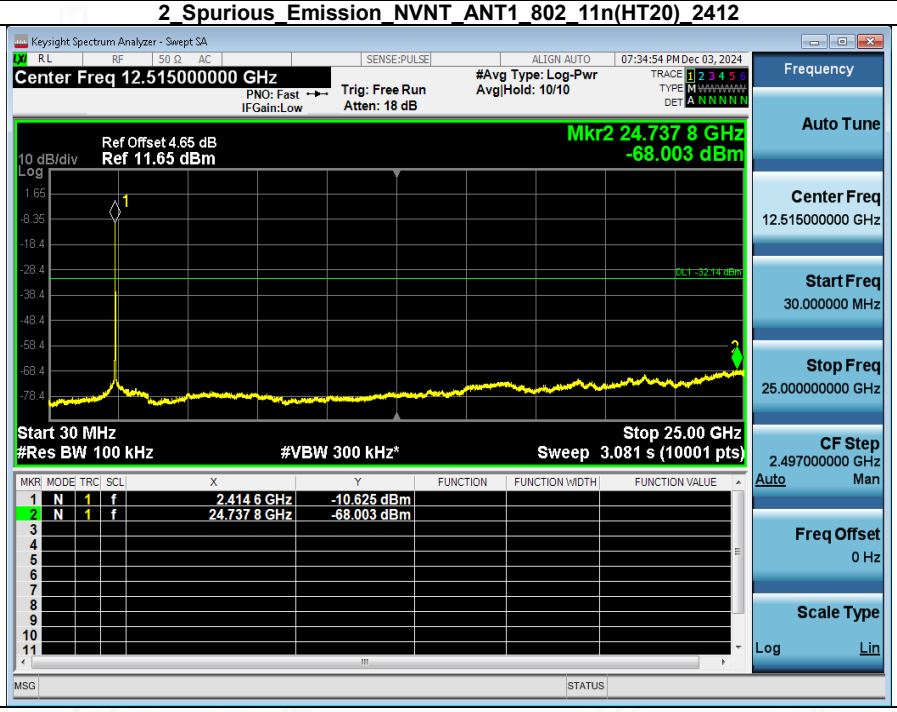

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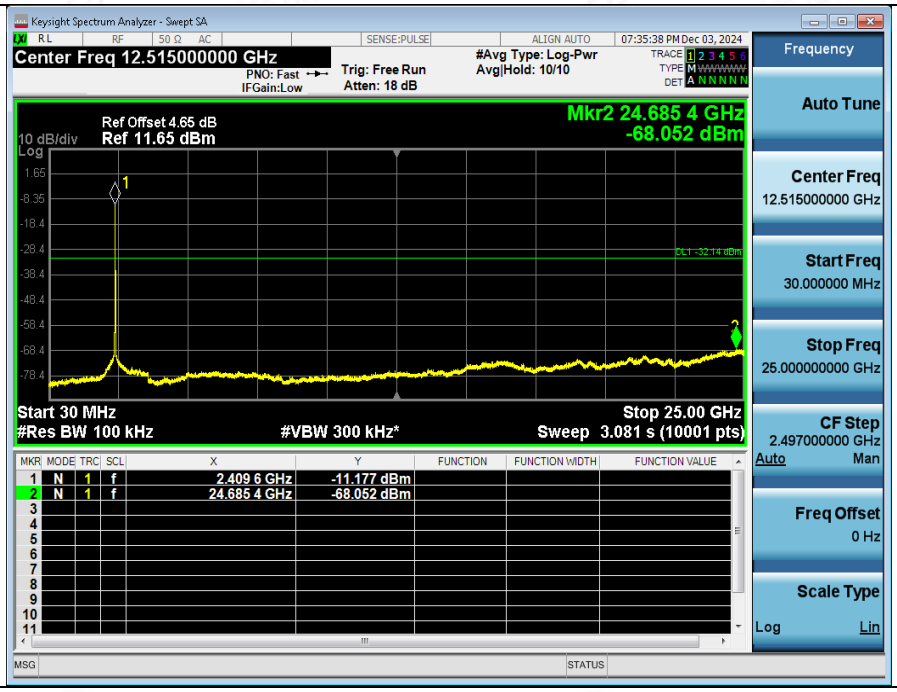
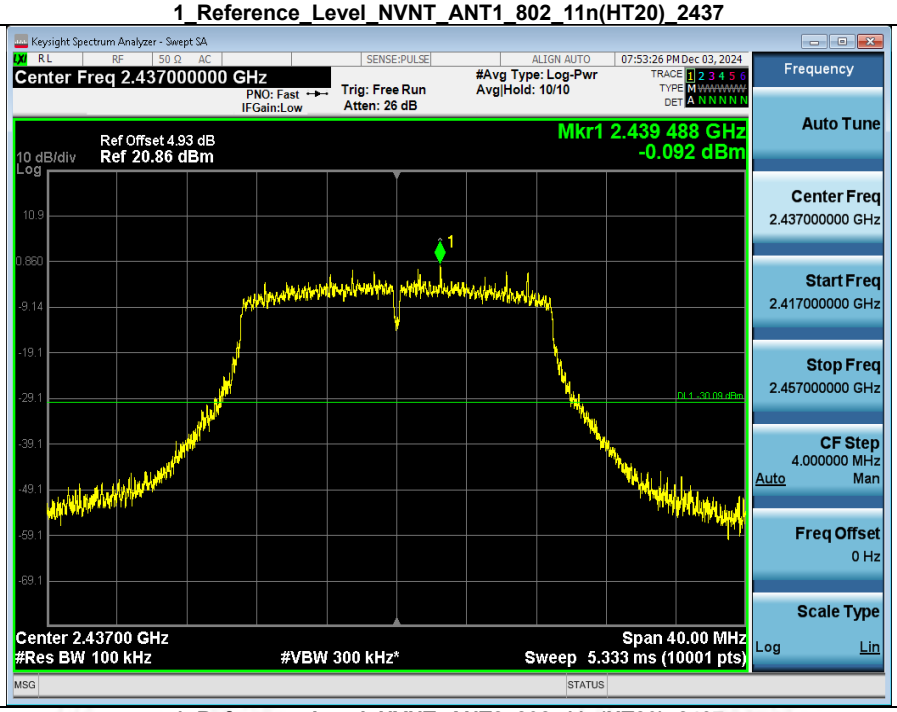


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437



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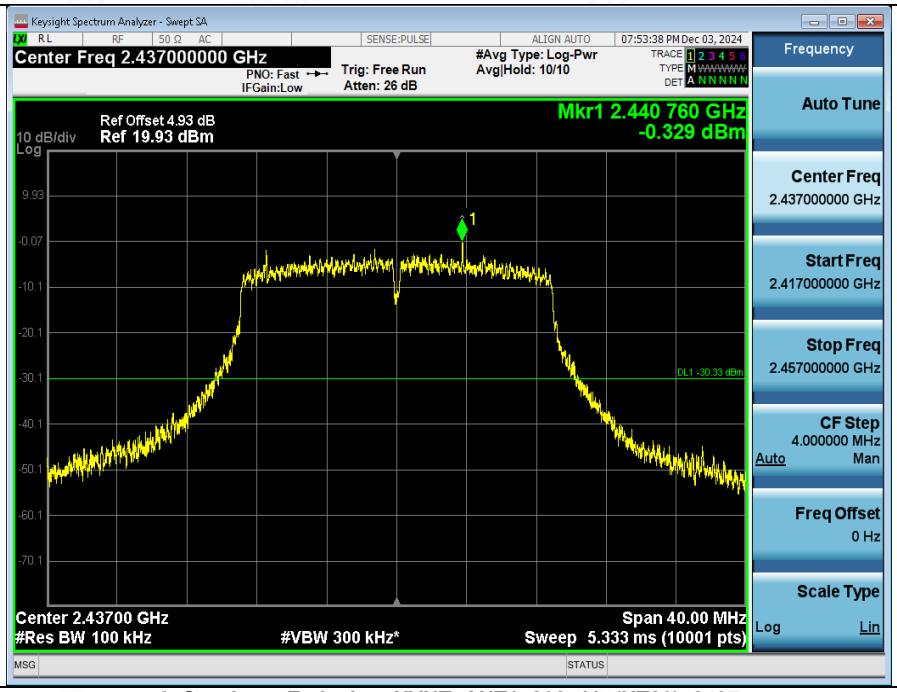

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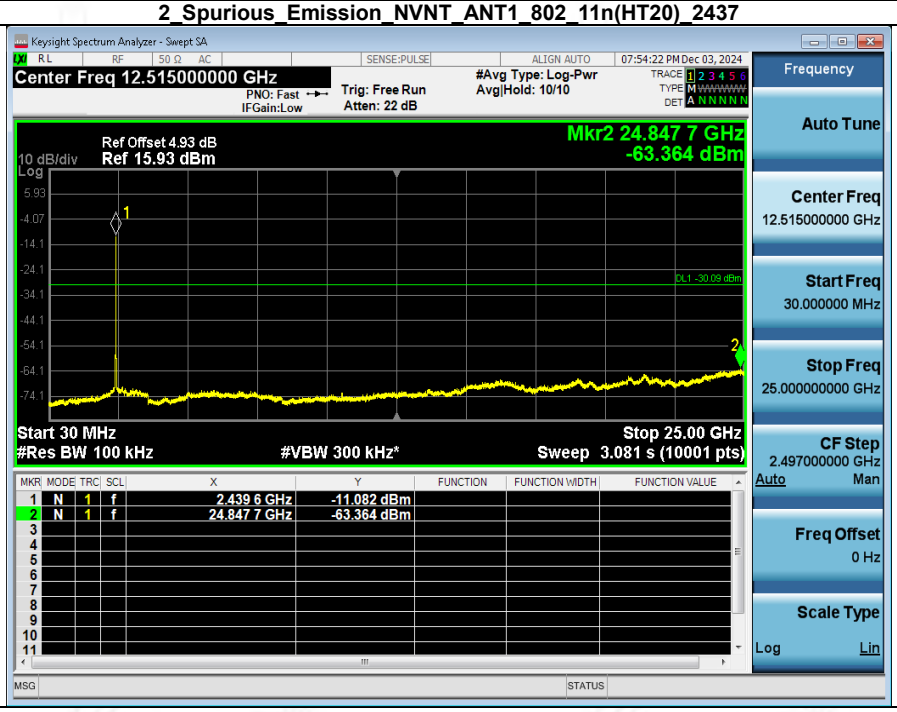

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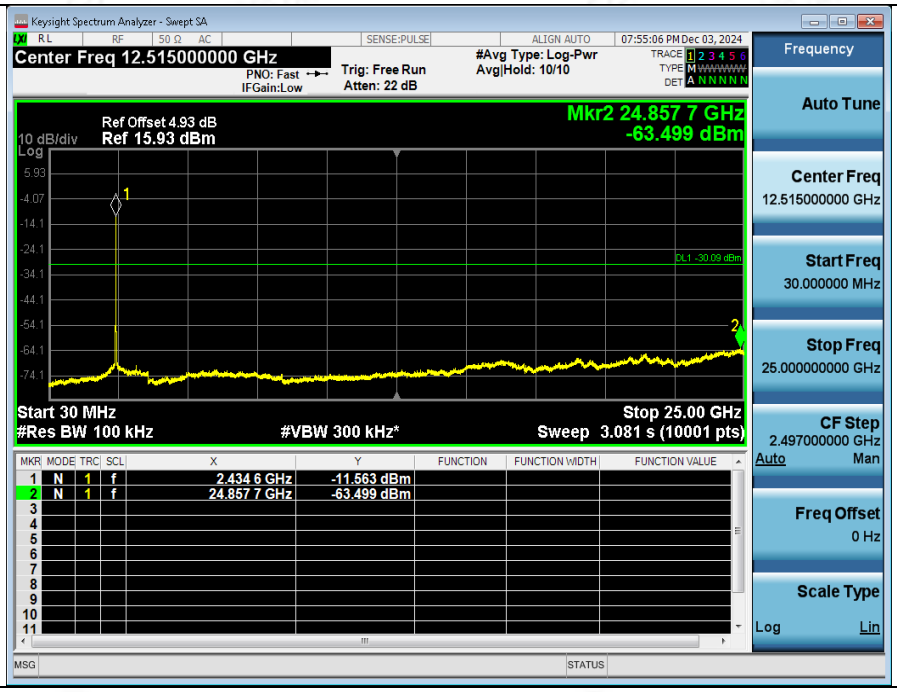
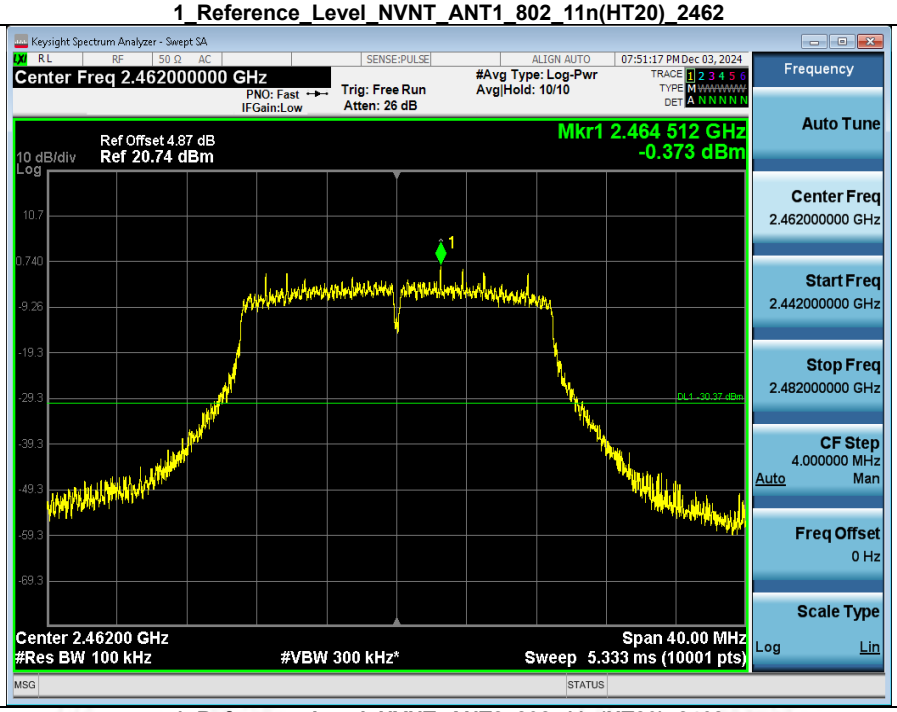
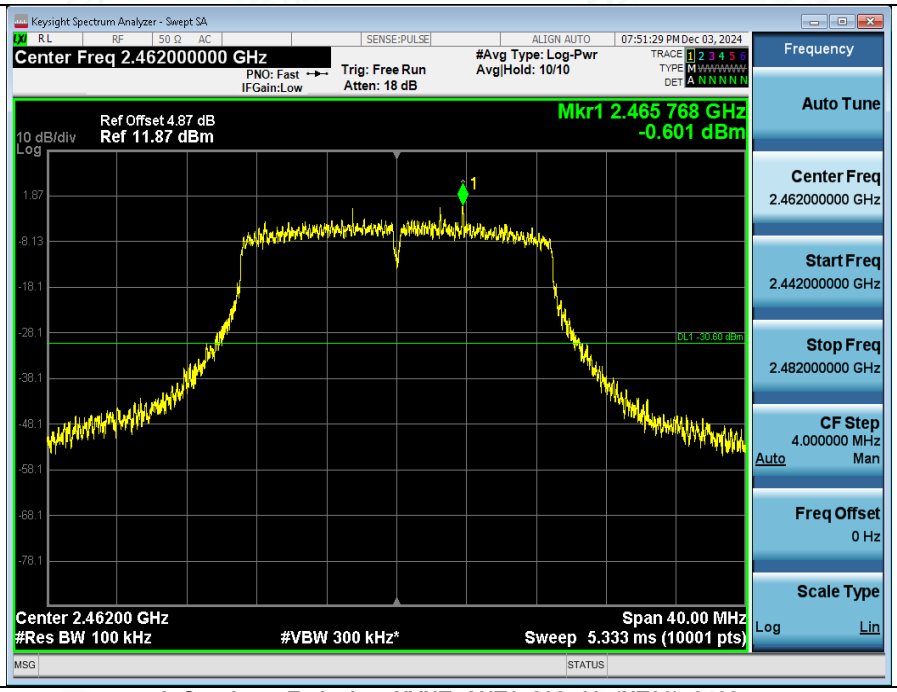


1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



1_Reference_Level_NVNT_ANT2_802_11n(HT20)_2462



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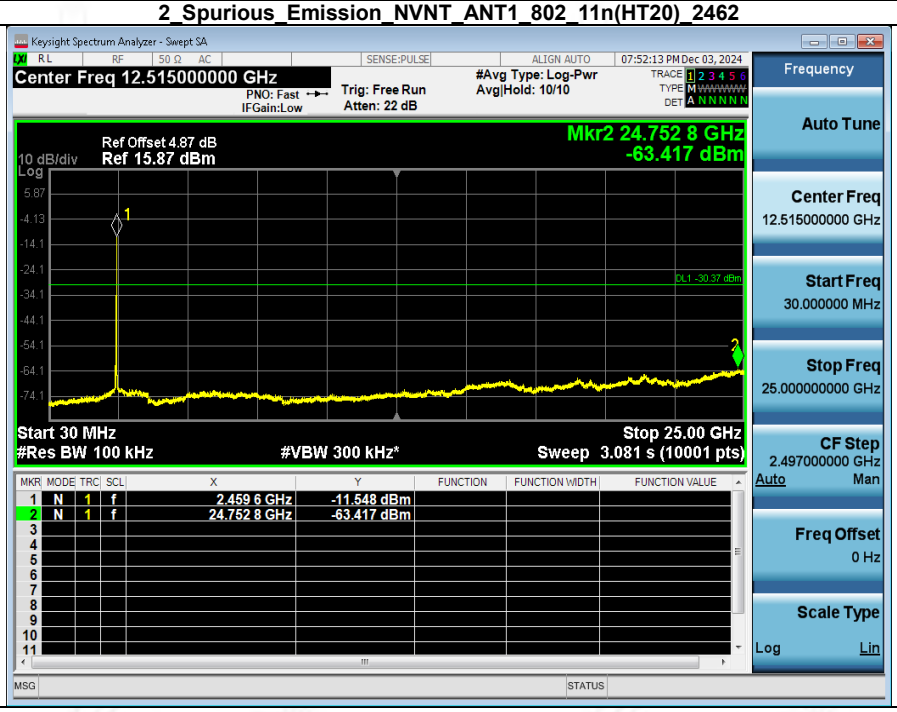

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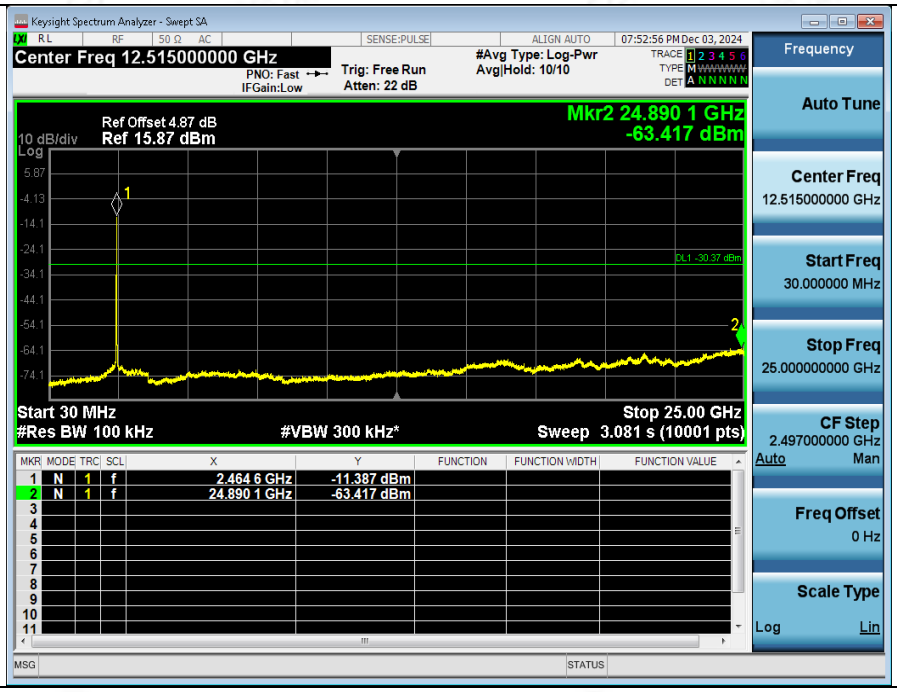
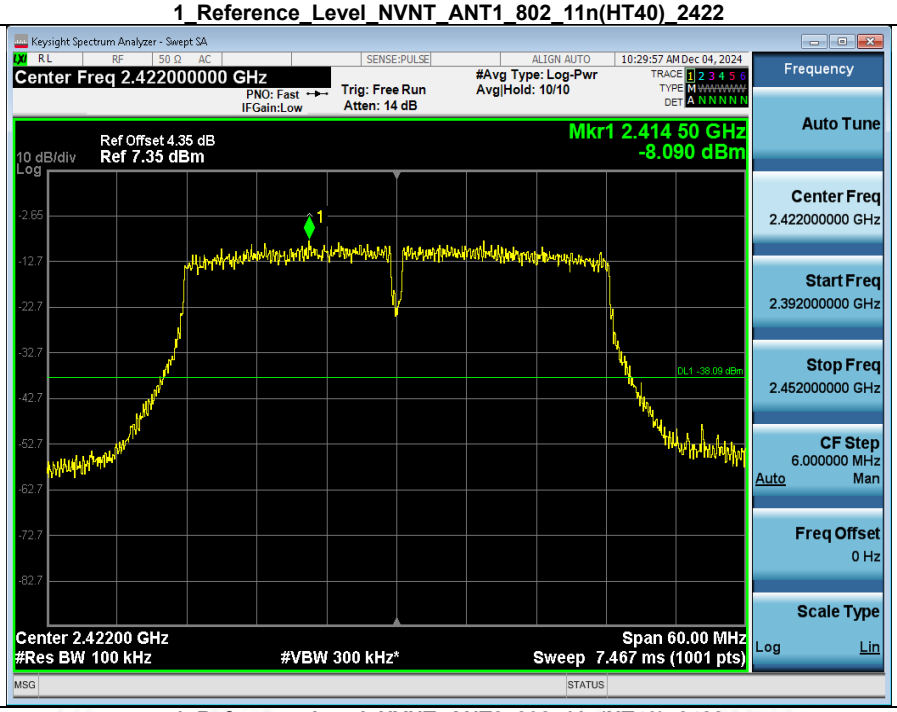
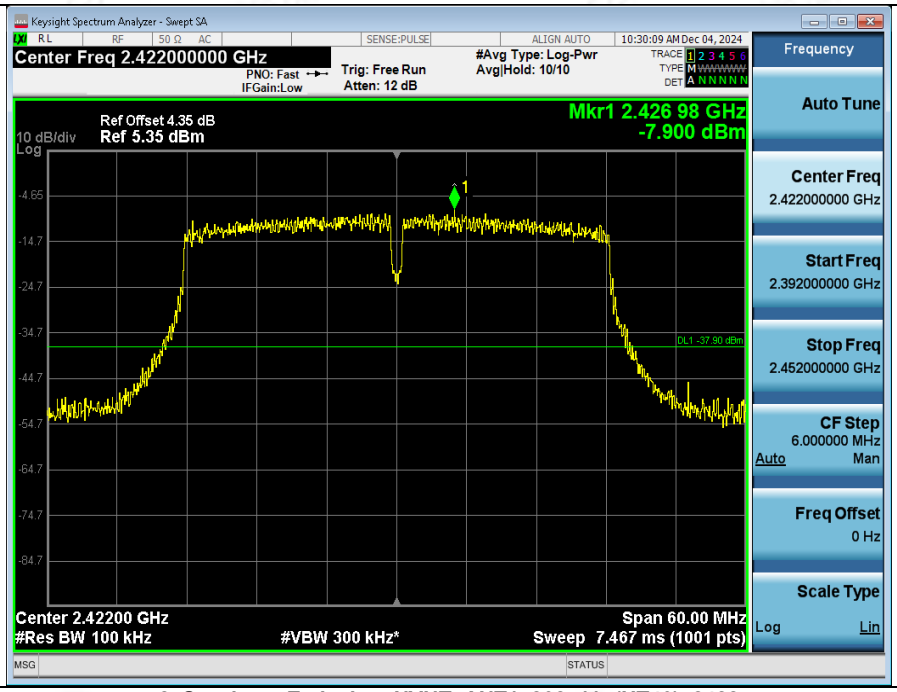


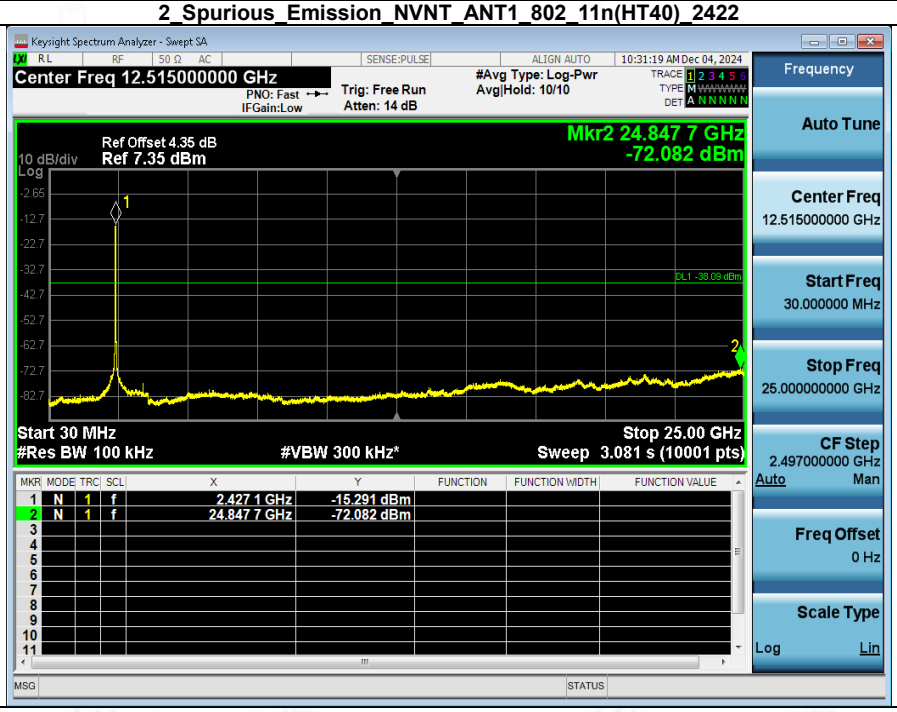
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



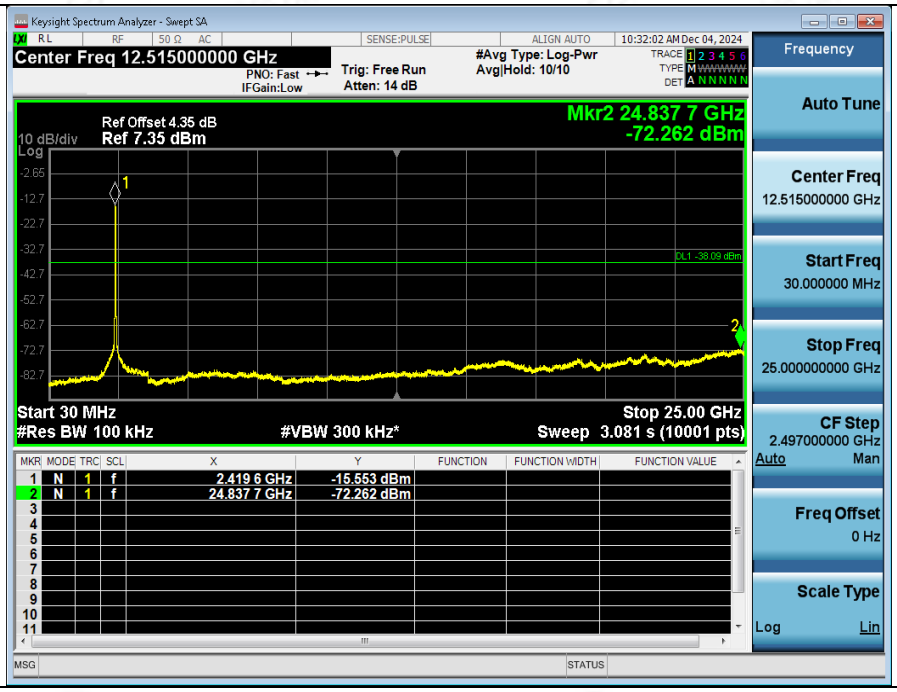
1_Reference_Level_NVNT_ANT2_802_11n(HT40)_2422



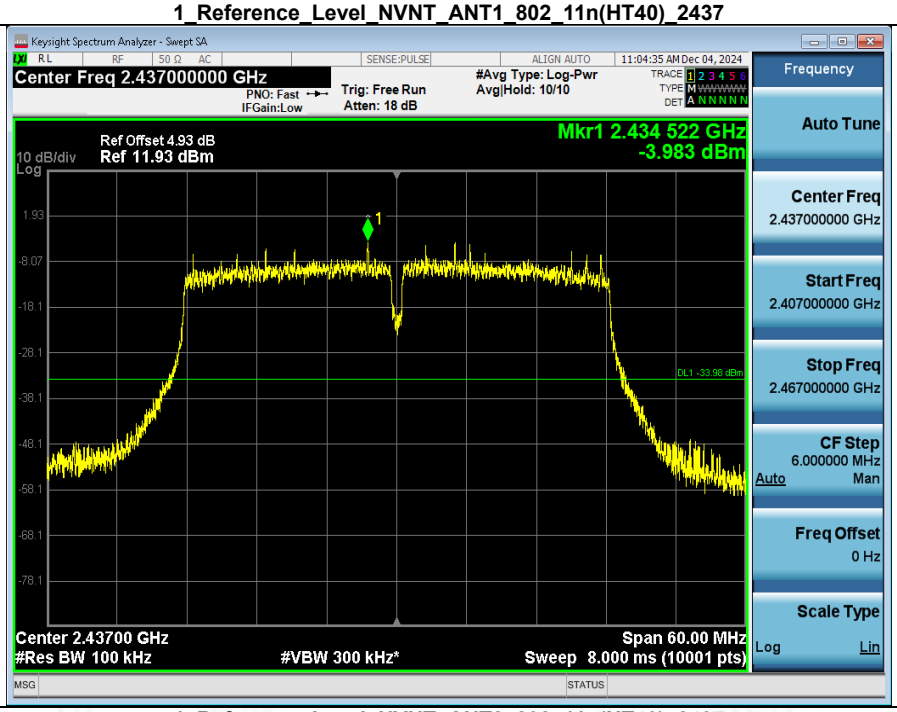
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



2_Spurious_Emission_NVNT_ANT2_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437



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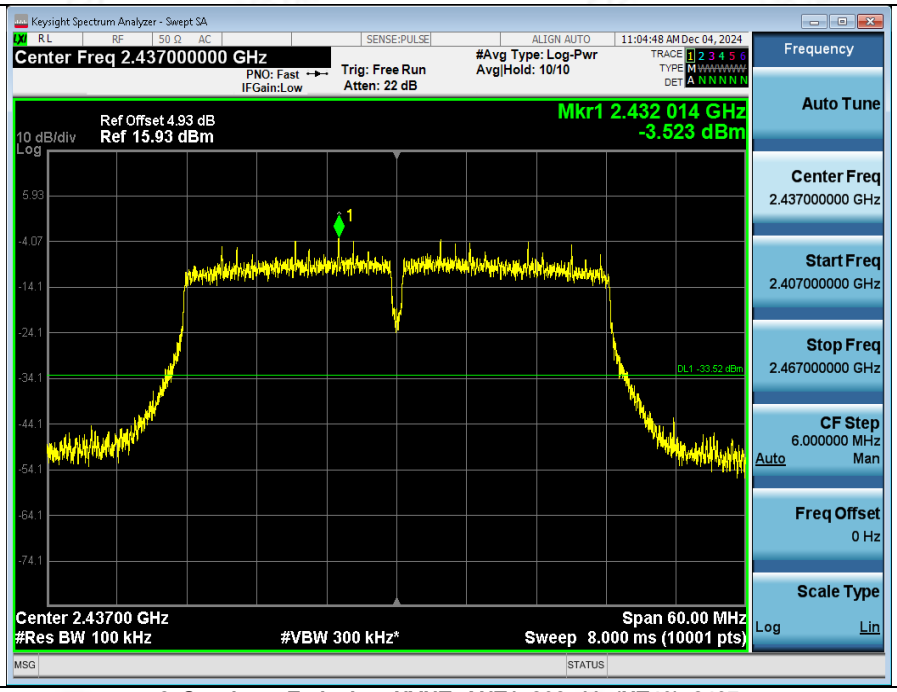
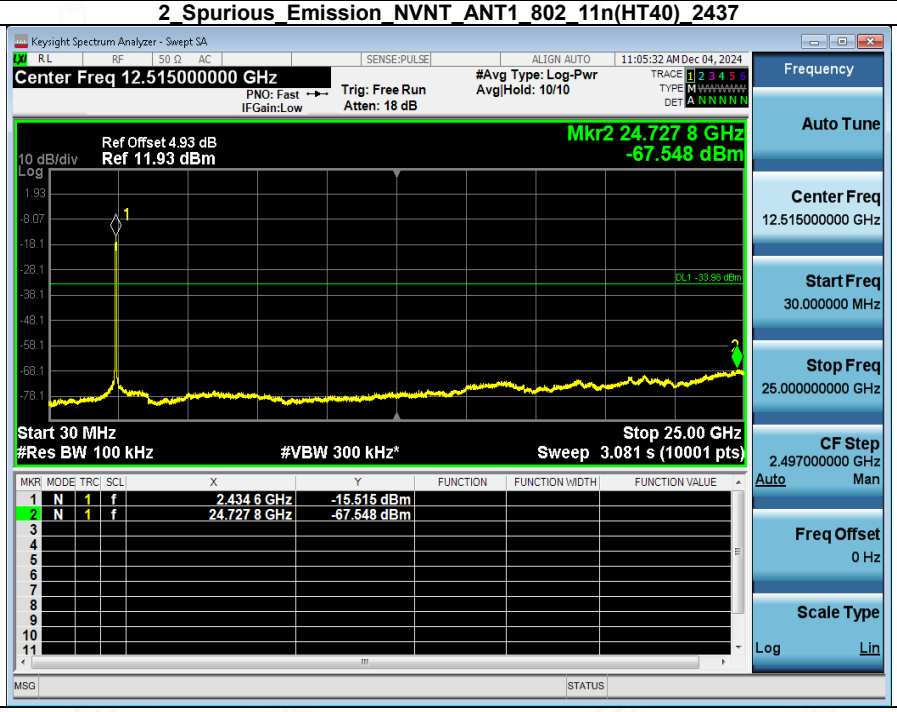
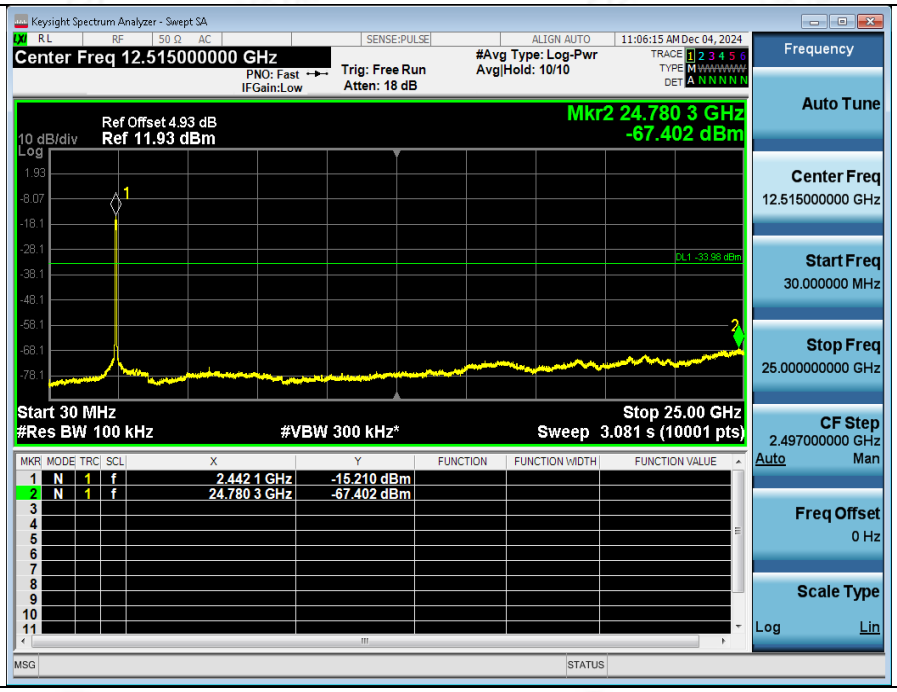


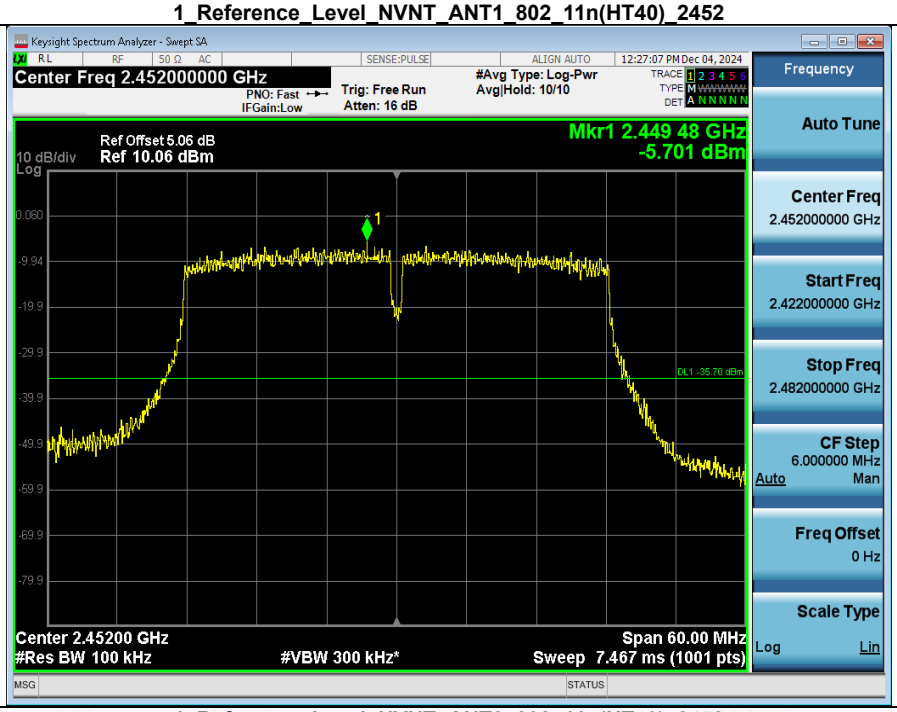
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



2_Spurious_Emission_NVNT_ANT2_802_11n(HT40)_2437



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



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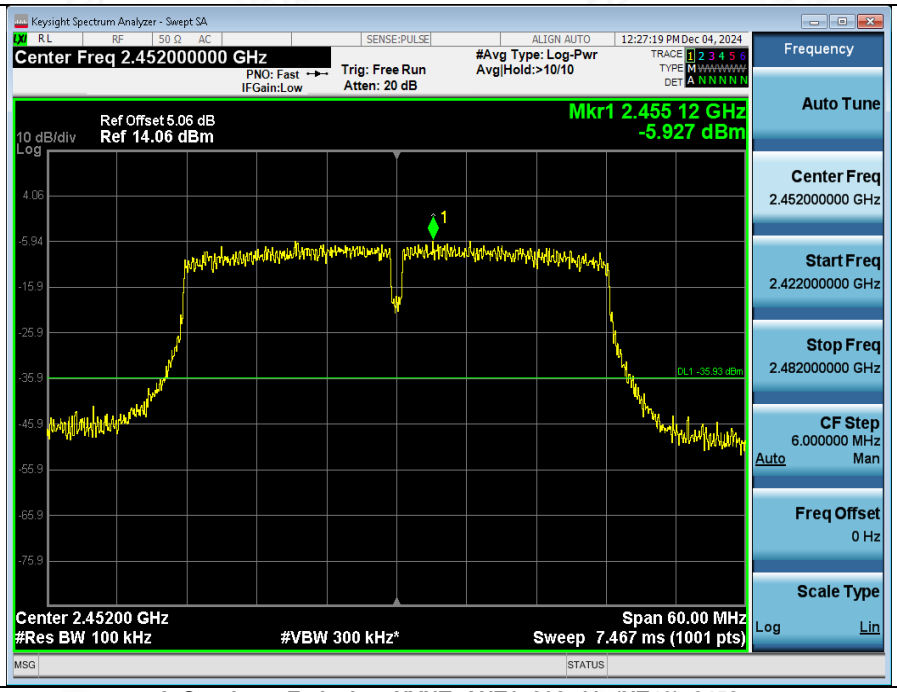
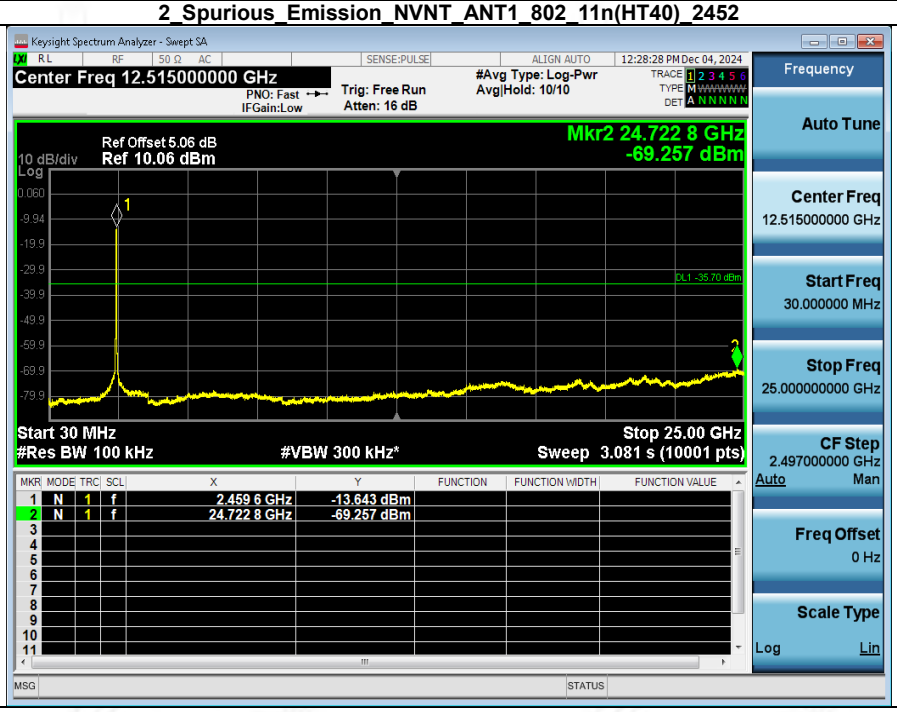
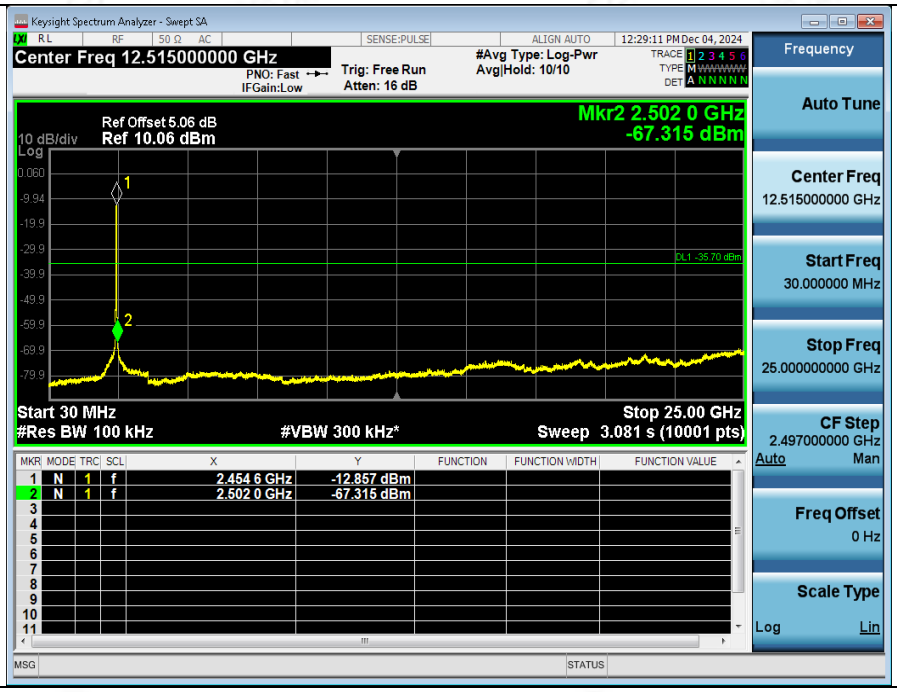


2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT2_802_11n(HT40)_2452


Keysight Spectrum Analyzer - Swept SA
Center Freq 12.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 16 dB
#Avg Type: Log-Pwr
Avg|Hold: 10/10
12:29:11 PM Dec 04, 2024
Ref Offset 5.06 dB
10 dB/div
Ref 10.06 dBm
Mkr2 2.502 0 GHz
-67.315 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Stop 25.00 GHz
Sweep 3.081 s (10001 pts)
1 N 1 f 2.454 6 GHz -12.857 dBm
2 N 1 f 2.502 0 GHz -67.315 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