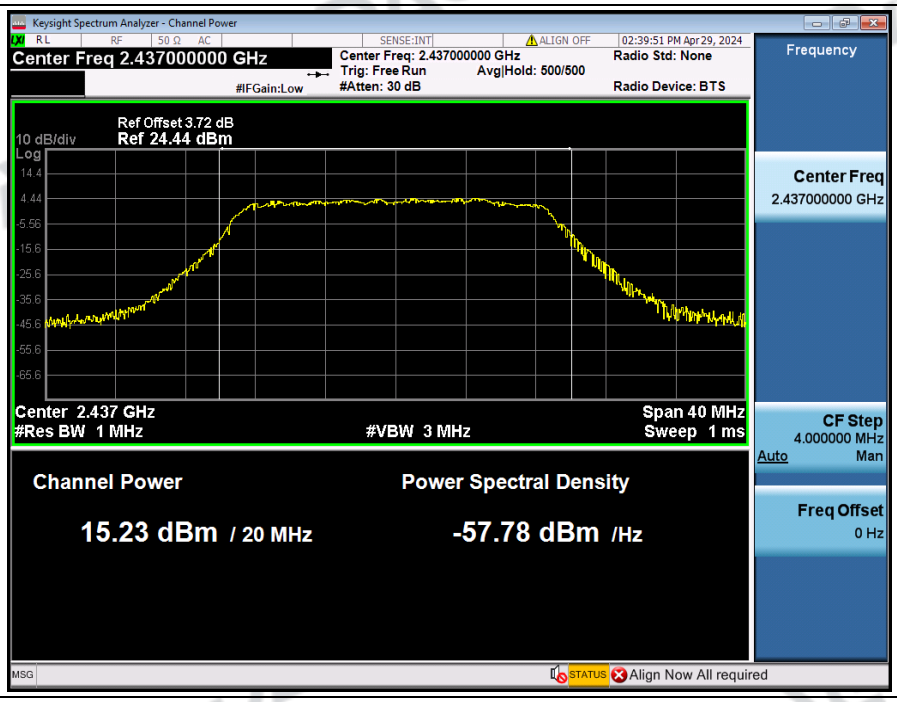
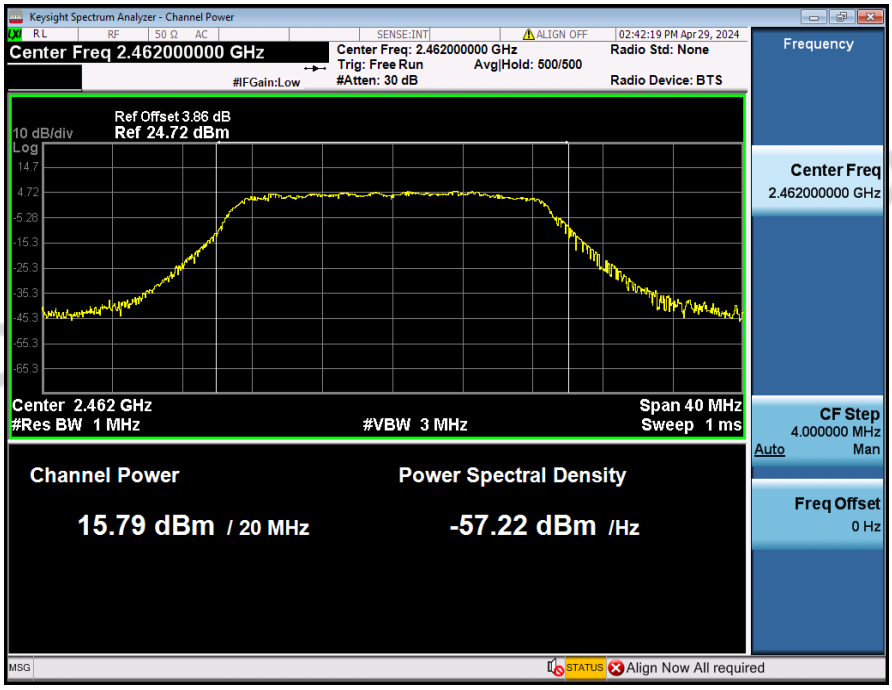
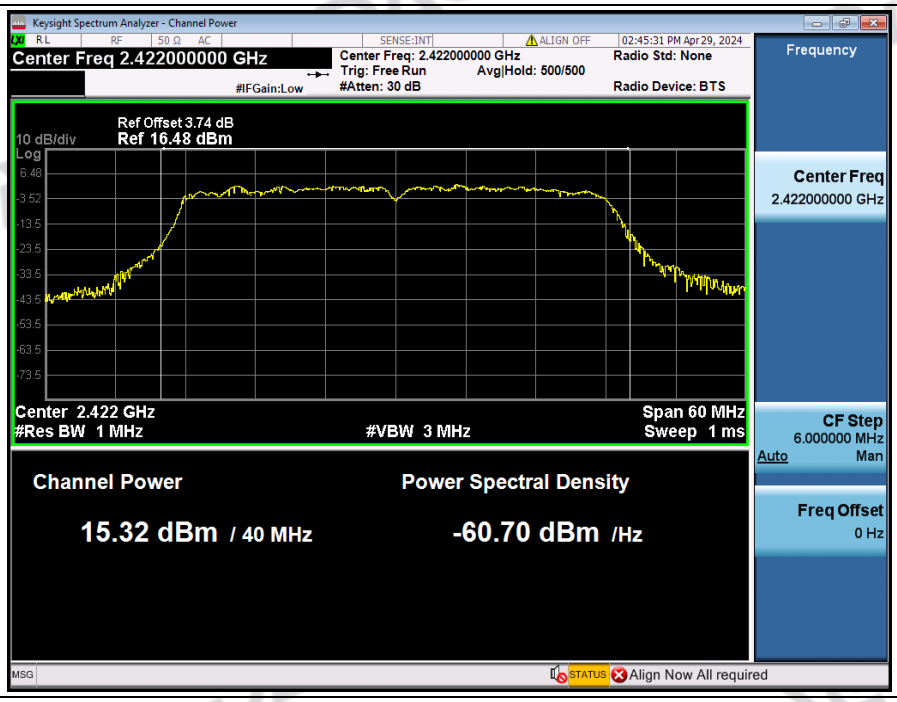
MAX__Output_Power_NVNT_ANT2_802_11n(HT20)_2437



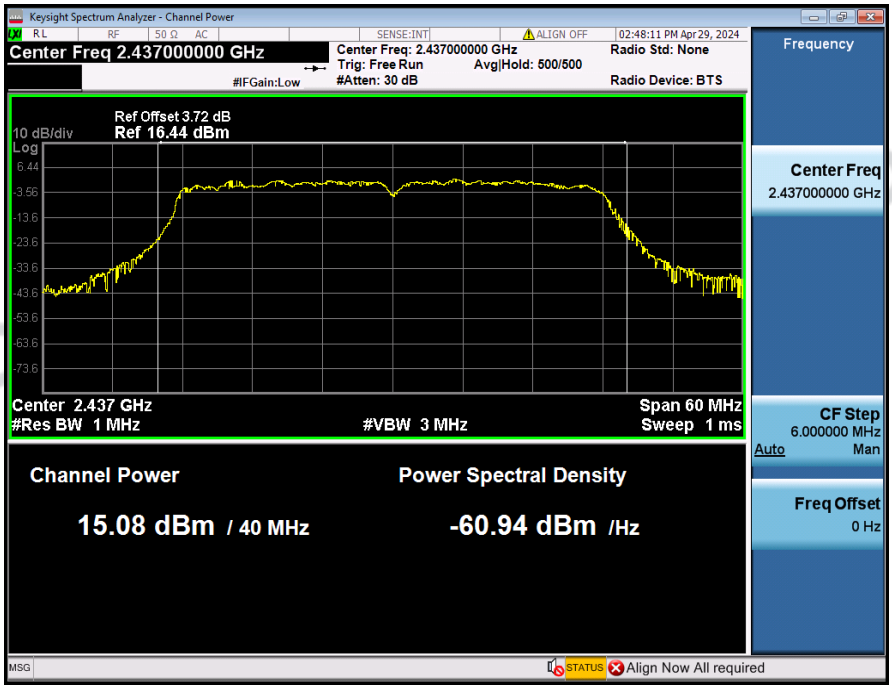
MAX__Output_Power_NVNT_ANT2_802_11n(HT20)_2462



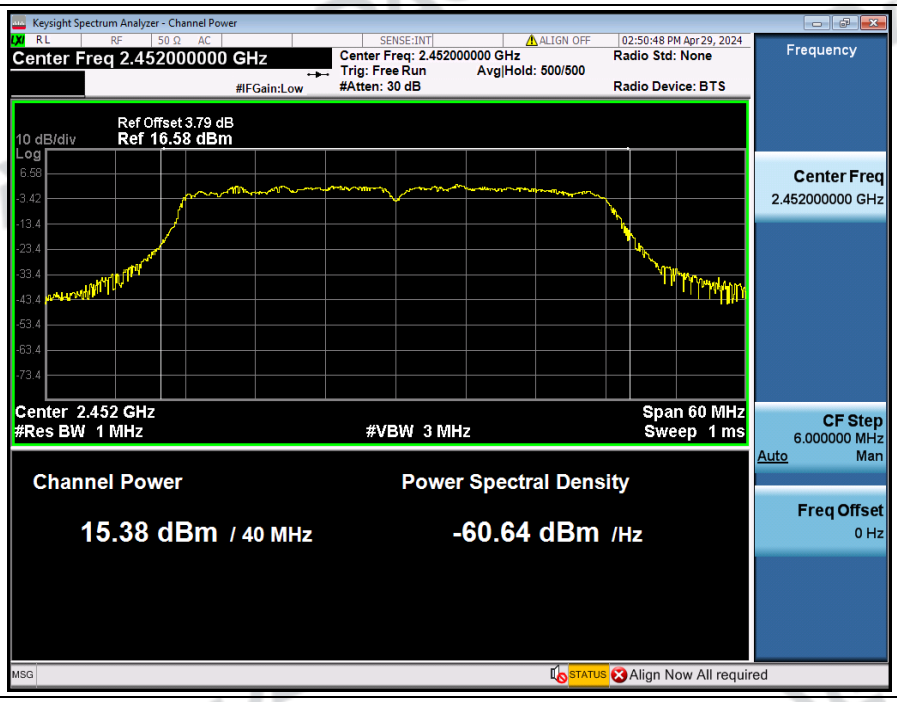
MAX__Output_Power_NVNT_ANT2_802_11n(HT40)_2422



MAX__Output_Power_NVNT_ANT2_802_11n(HT40)_2437



MAX__Output_Power_NVNT_ANT2_802_11n(HT40)_2452



Condition	Antenna	Modulation	Frequency (MHz)	MIMO-Conducted Power(dBm)	limit(dBm)	Result
NVNT	MIMO	802.11n(HT20)	2412.00	18.52	30	Pass
NVNT	MIMO	802.11n(HT20)	2437.00	18.37	30	Pass
NVNT	MIMO	802.11n(HT20)	2462.00	18.86	30	Pass
NVNT	MIMO	802.11n(HT40)	2422.00	18.26	30	Pass
NVNT	MIMO	802.11n(HT40)	2437.00	18.05	30	Pass
NVNT	MIMO	802.11n(HT40)	2452.00	18.34	30	Pass

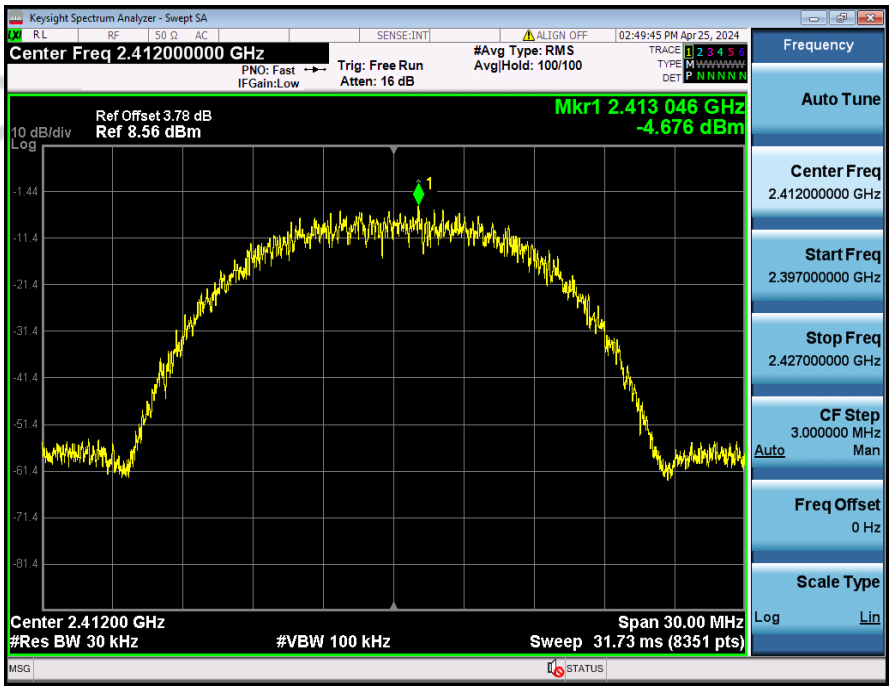
Note: According to KDB662911 D01, the number of antennas for this device is less than 4, and the MIMO antenna gain is 5.51<6dBi, so the MIMO Limit is still 30dBm

4. Power Spectral Density

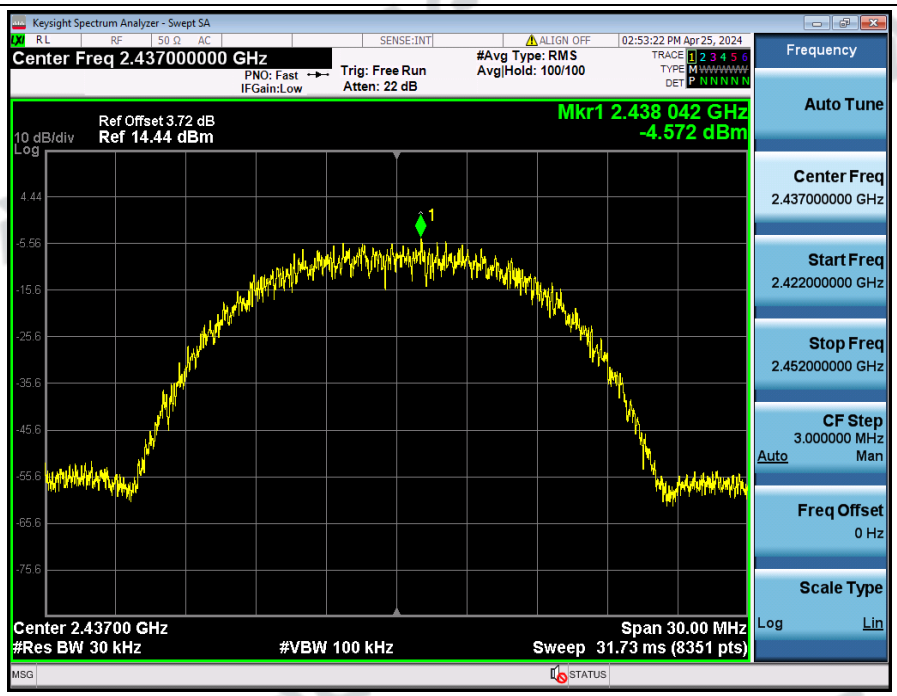
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-4.68	-10.00	-14.68	8	Pass
NVNT	ANT1	802.11b	2437.00	-4.57	-10.00	-14.57	8	Pass
NVNT	ANT1	802.11b	2462.00	-4.92	-10.00	-14.92	8	Pass
NVNT	ANT1	802.11g	2412.00	-8.72	-10.00	-18.72	8	Pass
NVNT	ANT1	802.11g	2437.00	-8.57	-10.00	-18.57	8	Pass
NVNT	ANT1	802.11g	2462.00	-8.41	-10.00	-18.41	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-1.69	-10.00	-11.69	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-8.49	-10.00	-18.49	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-7.82	-10.00	-17.82	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-11.71	-10.00	-21.71	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-12.12	-10.00	-22.12	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-11.27	-10.00	-21.27	8	Pass
NVNT	ANT2	802.11b	2412.00	-4.75	-10.00	-14.75	8	Pass
NVNT	ANT2	802.11b	2437.00	-3.95	-10.00	-13.95	8	Pass
NVNT	ANT2	802.11b	2462.00	-2.87	-10.00	-12.87	8	Pass
NVNT	ANT2	802.11g	2412.00	-7.88	-10.00	-17.88	8	Pass
NVNT	ANT2	802.11g	2437.00	-7.14	-10.00	-17.14	8	Pass
NVNT	ANT2	802.11g	2462.00	-5.64	-10.00	-15.64	8	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	-8.79	-10.00	-18.79	8	Pass
NVNT	ANT2	802.11n(HT20)	2437.00	-7.17	-10.00	-17.17	8	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	-6.65	-10.00	-16.65	8	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	-9.28	-10.00	-19.28	8	Pass
NVNT	ANT2	802.11n(HT40)	2437.00	-9.58	-10.00	-19.58	8	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	-9.04	-10.00	-19.04	8	Pass

RB factor=10*log(3/30)=-10dB; PSD(dBm/30kHz) + RB factor(dB)=PSD(dBm/3kHz)

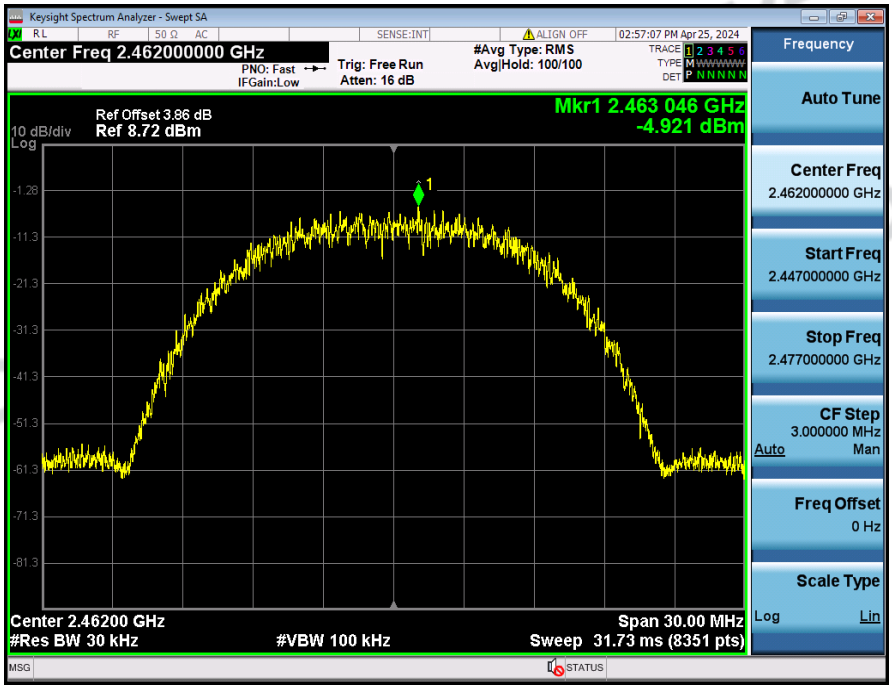
Power_Spectral_Density_NVNT_ANT1_802_11b_2412



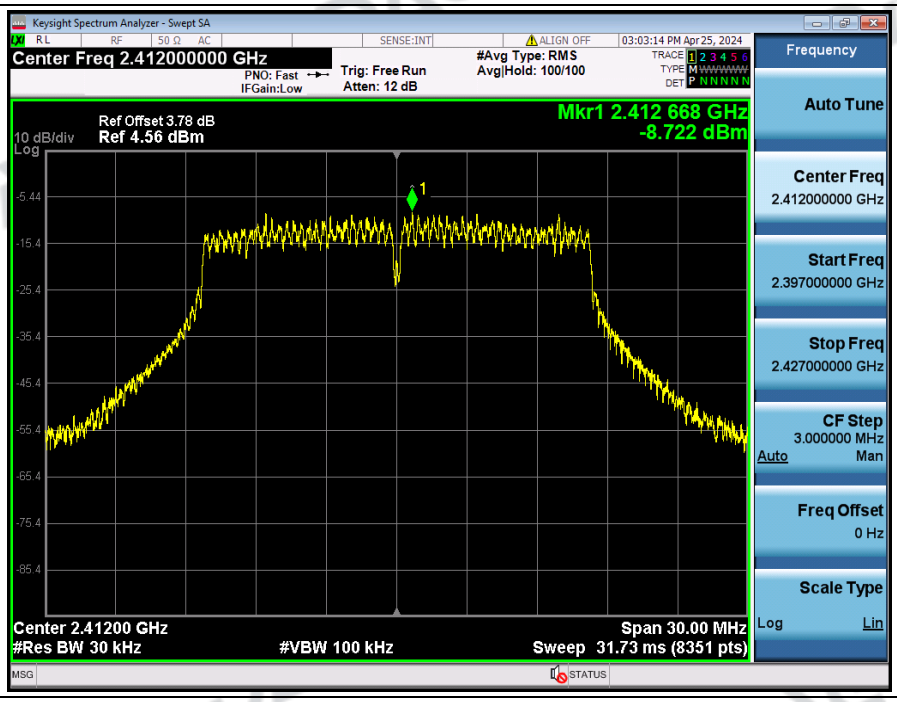
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



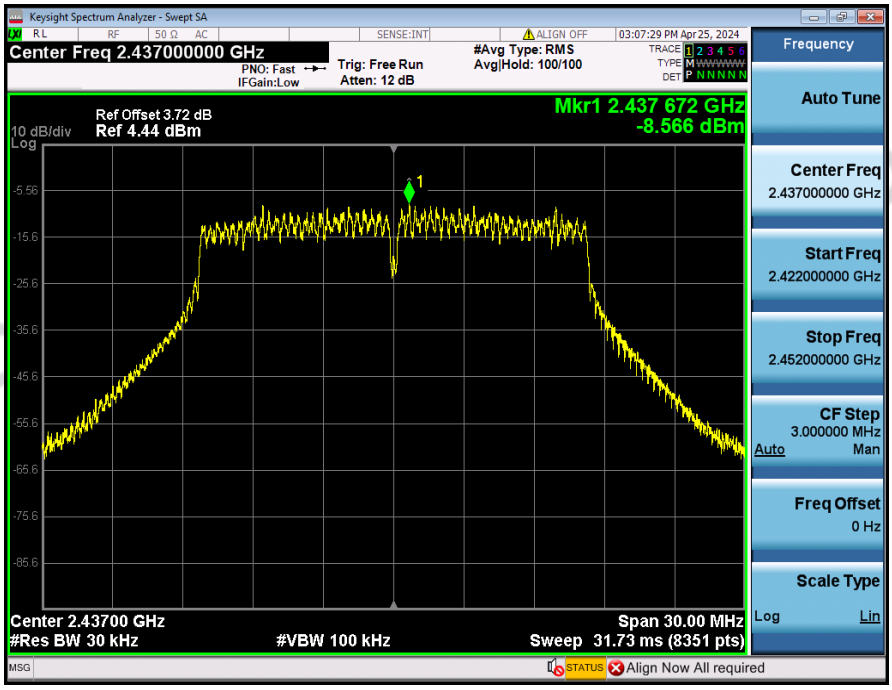
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



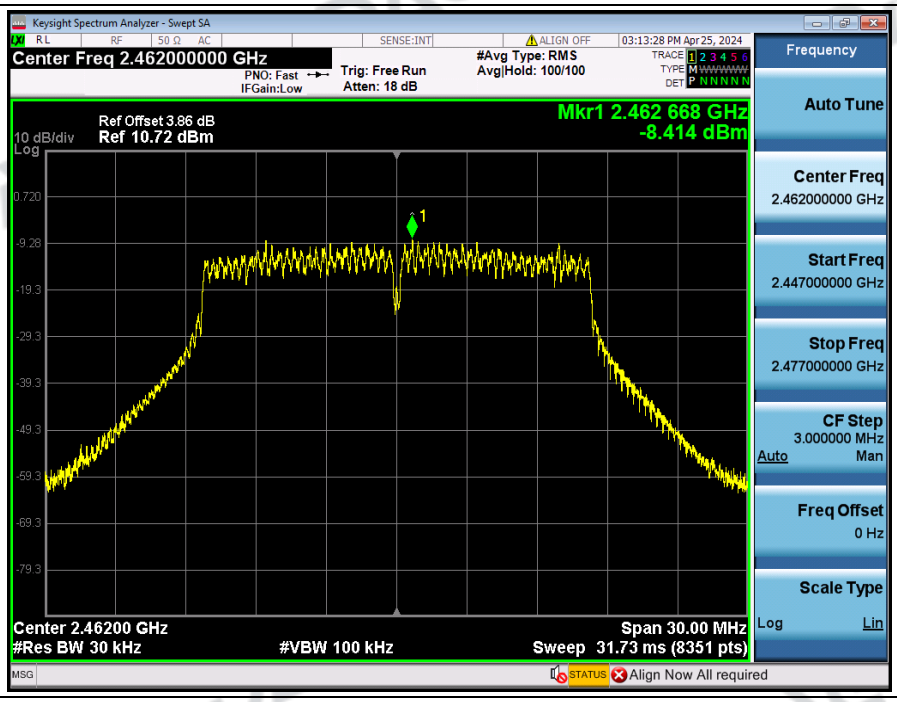
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



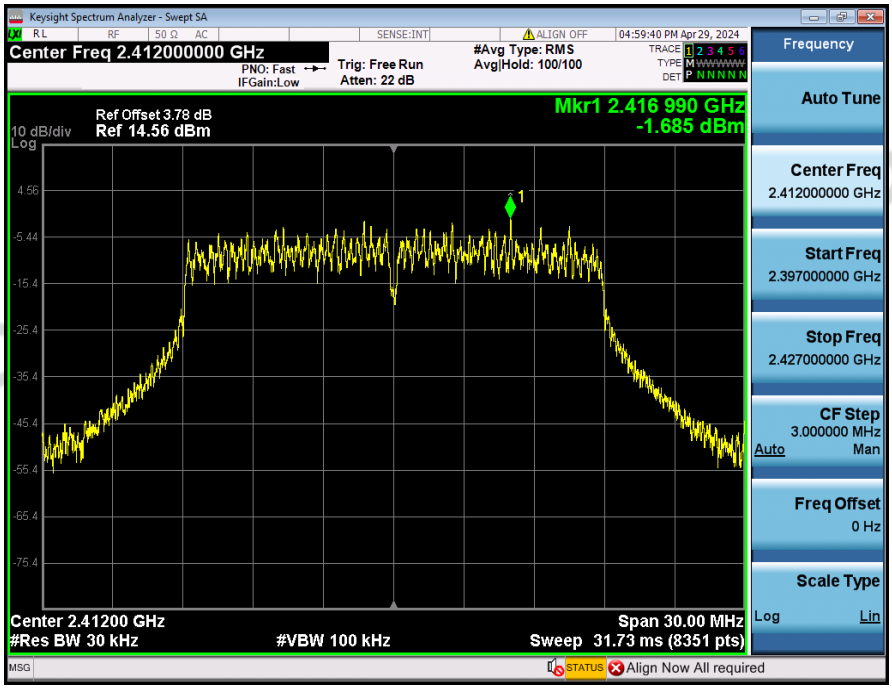
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



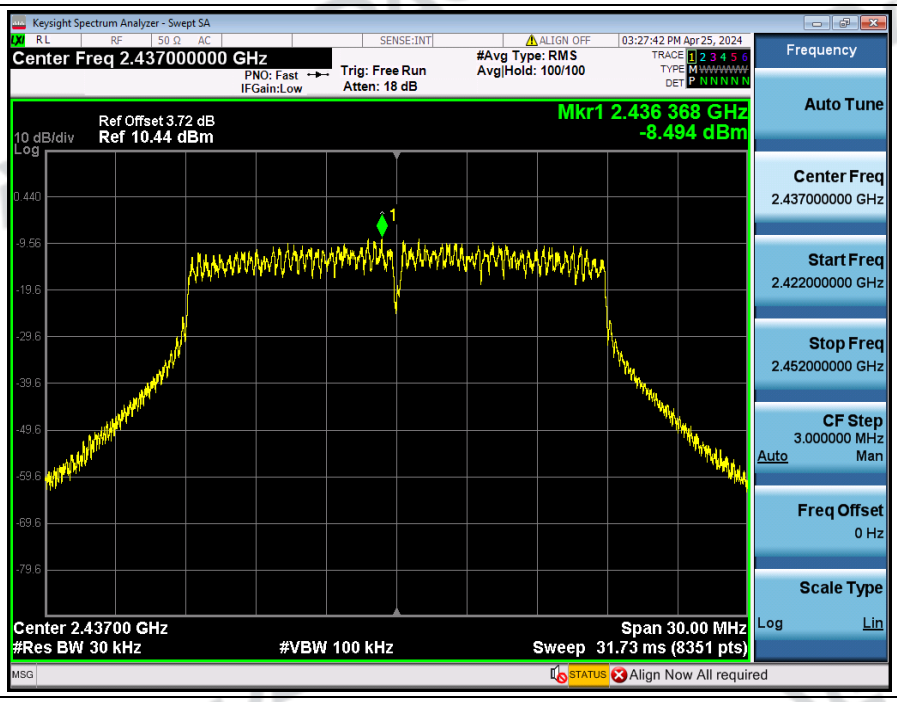
Power_Spectral_Density_NVNT_ANT1_802_11g_2462



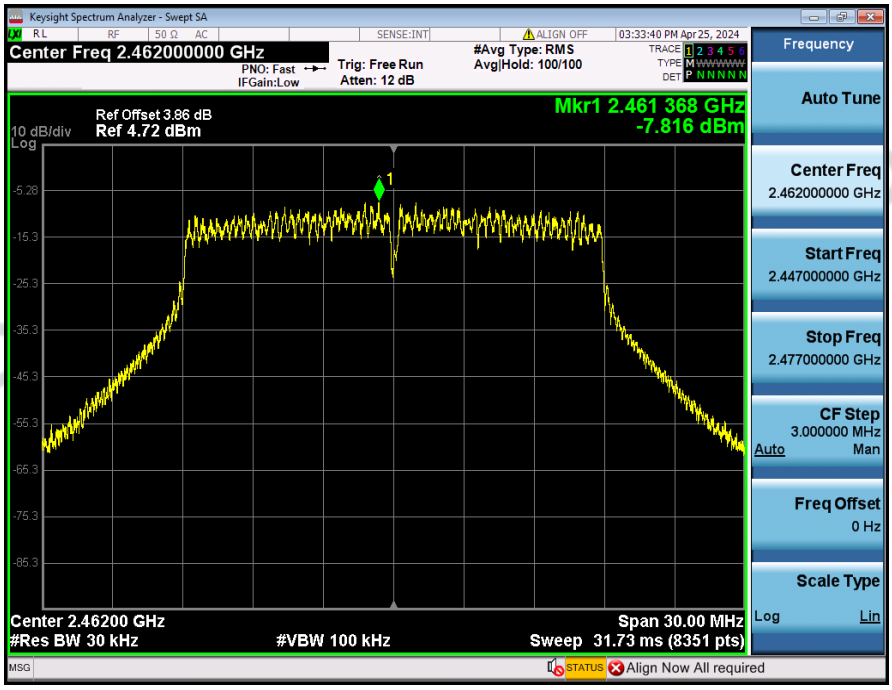
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



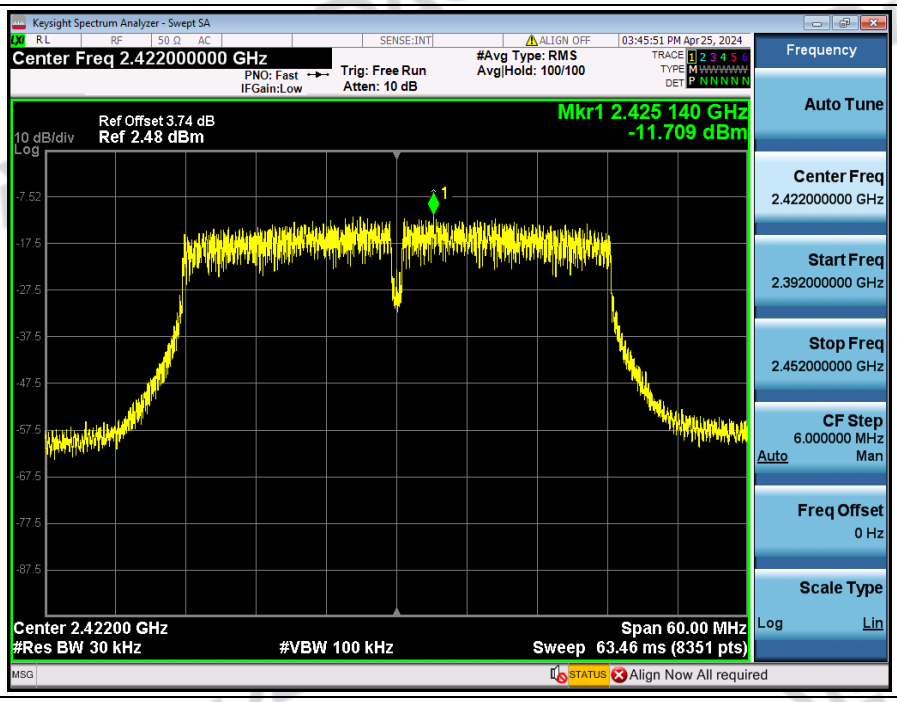
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



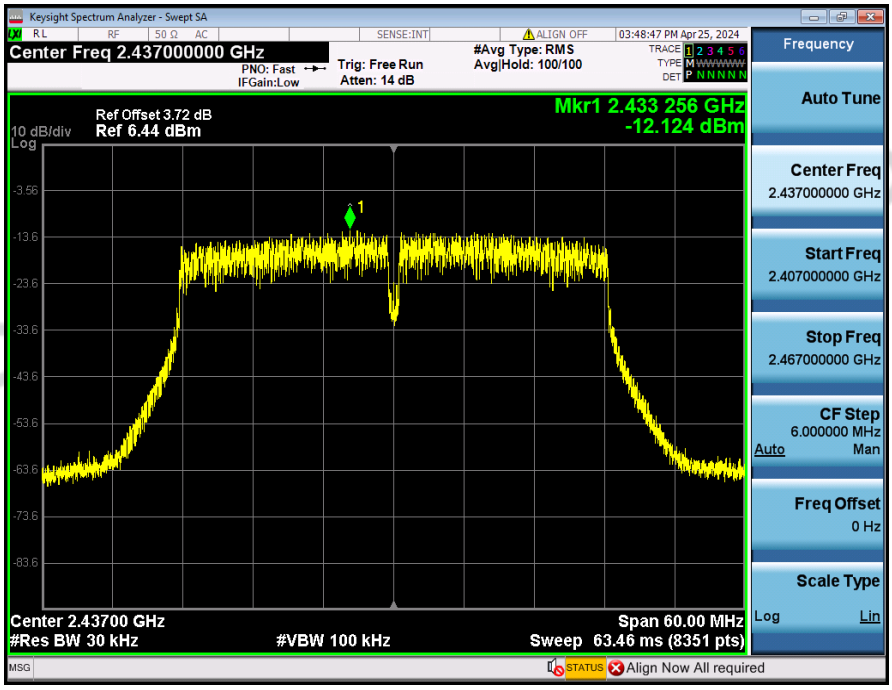
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



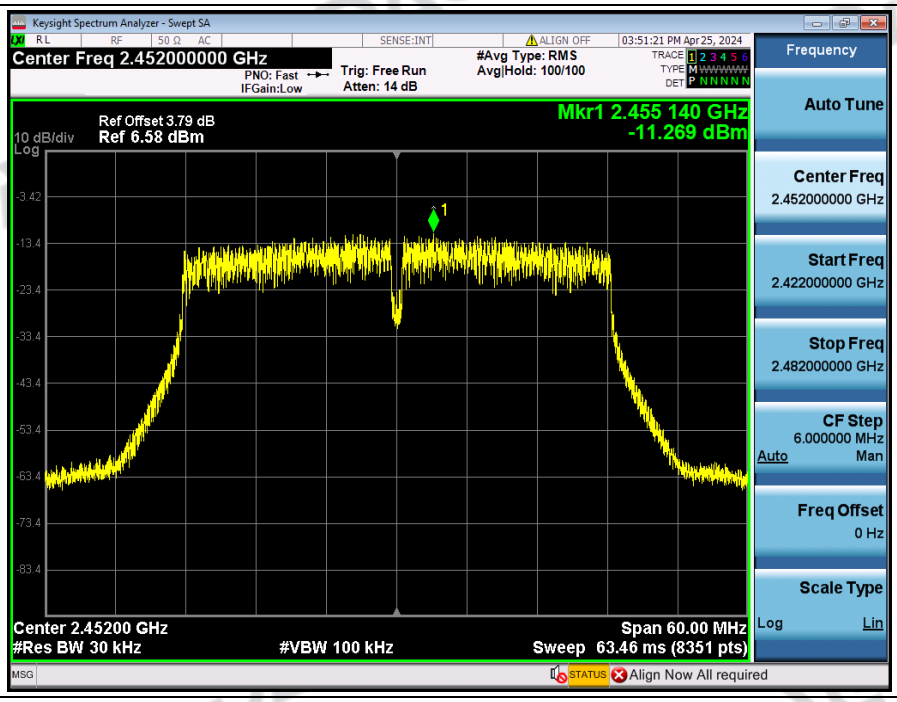
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



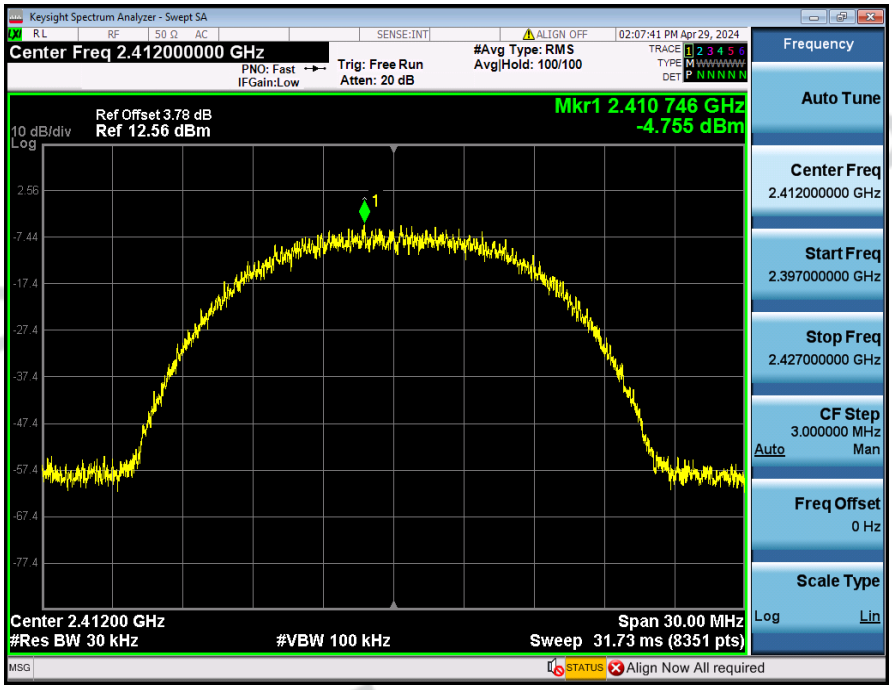
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



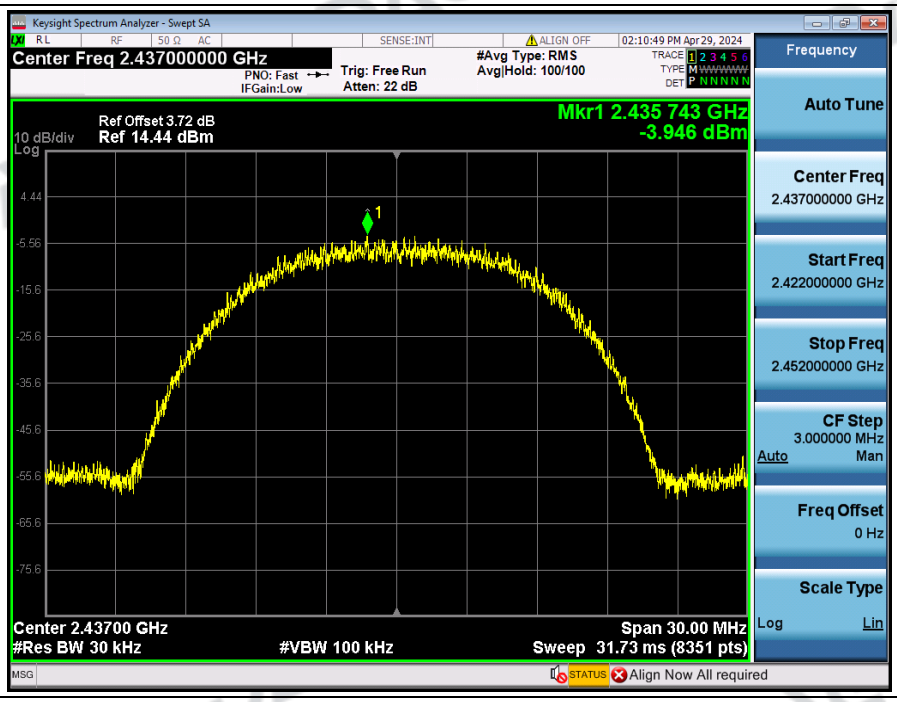
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2452



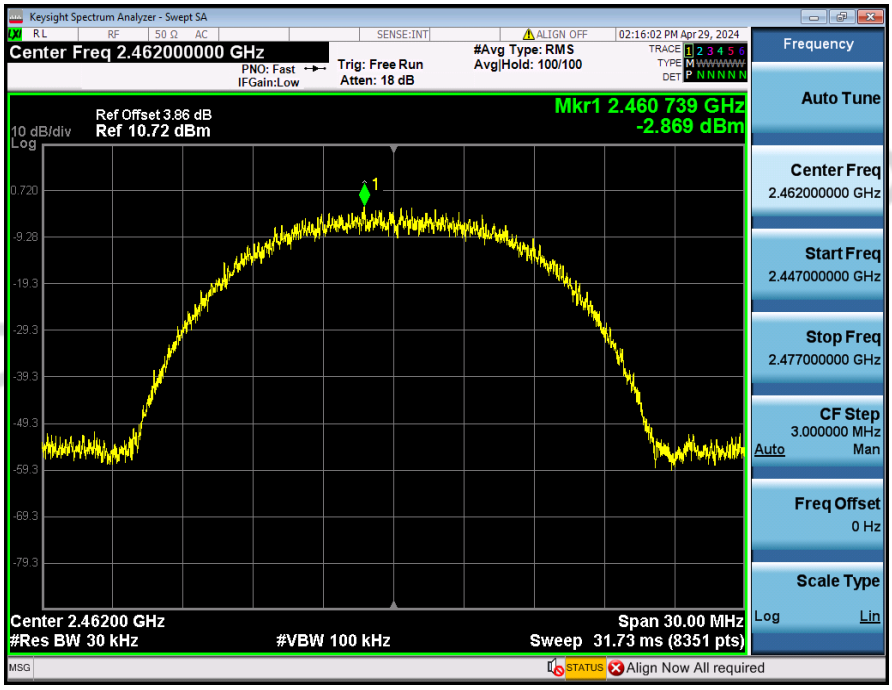
Power_Spectral_Density_NVNT_ANT2_802_11b_2412



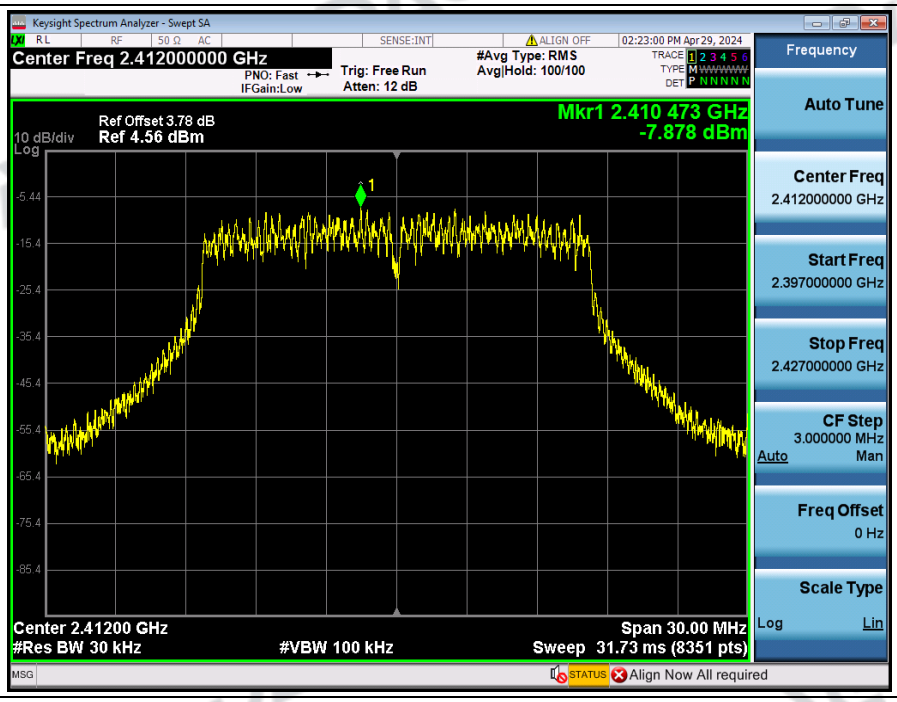
Power_Spectral_Density_NVNT_ANT2_802_11b_2437



Power_Spectral_Density_NVNT_ANT2_802_11b_2462



Power_Spectral_Density_NVNT_ANT2_802_11g_2412



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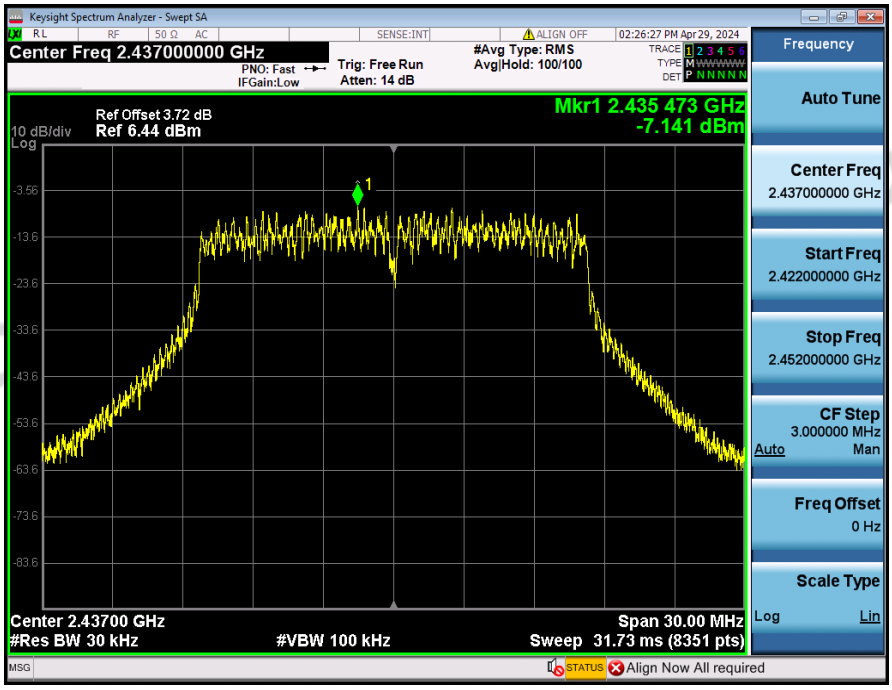
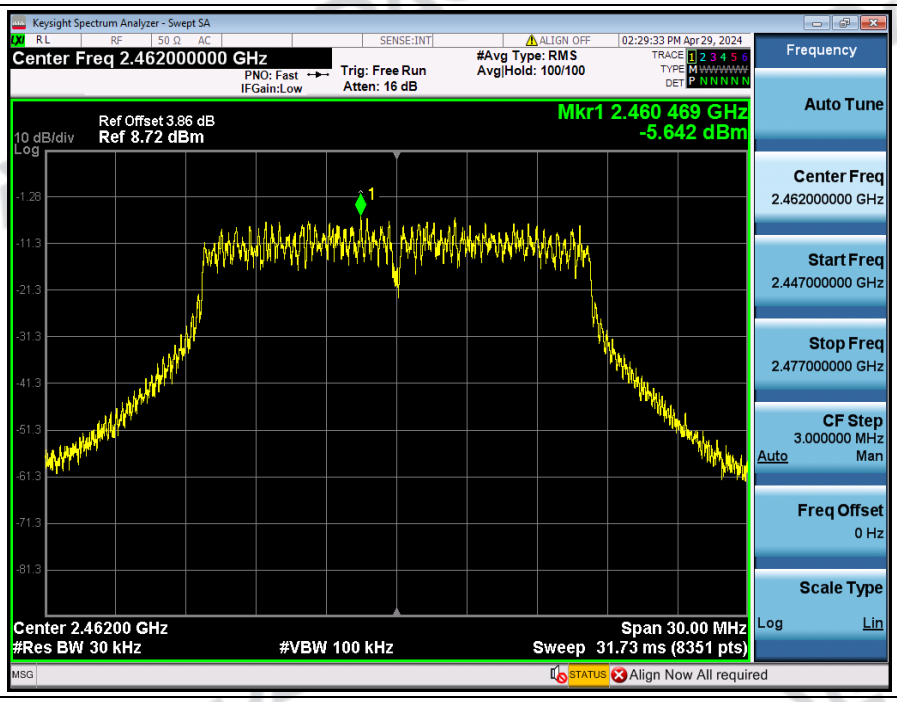
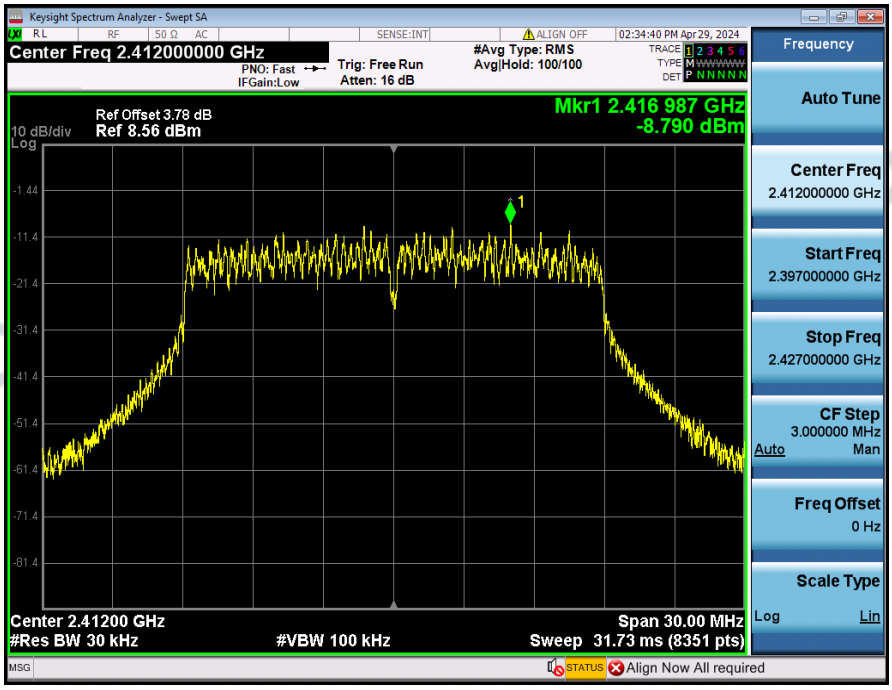


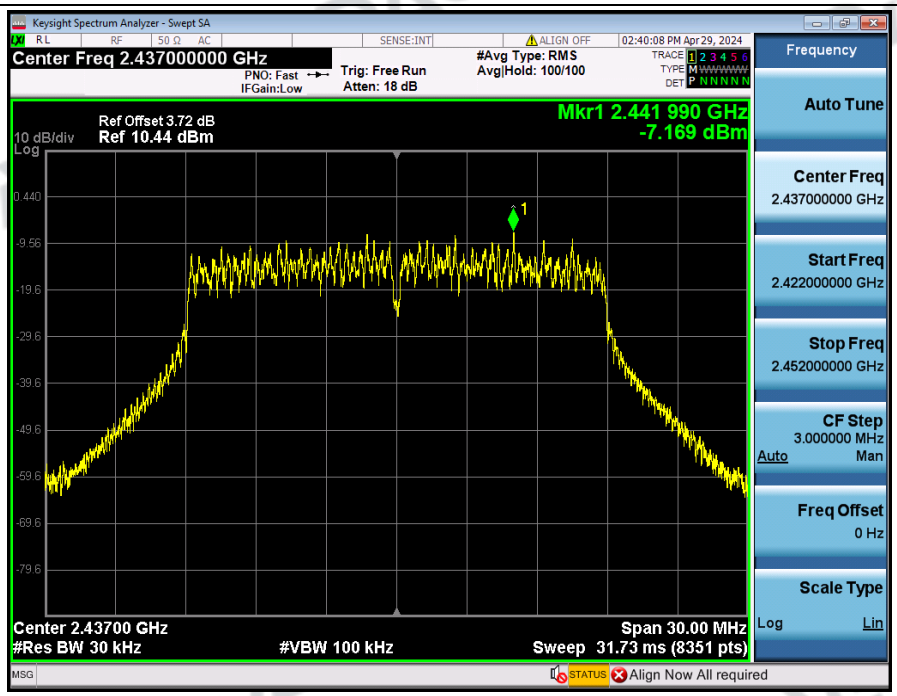
Power_Spectral_Density_NVNT_ANT2_802_11g_2462



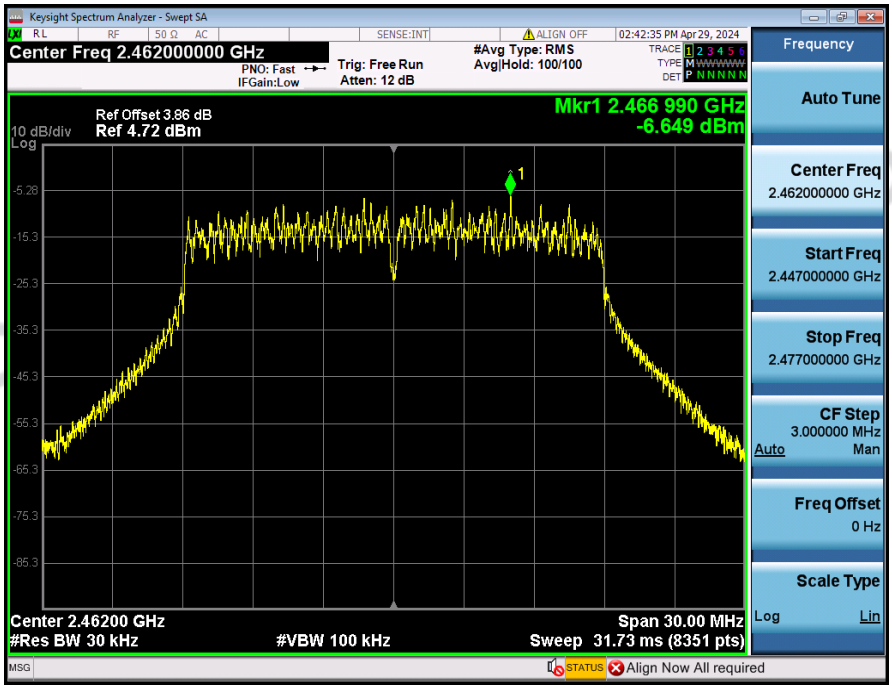
Power_Spectral_Density_NVNT_ANT2_802_11n(HT20)_2412



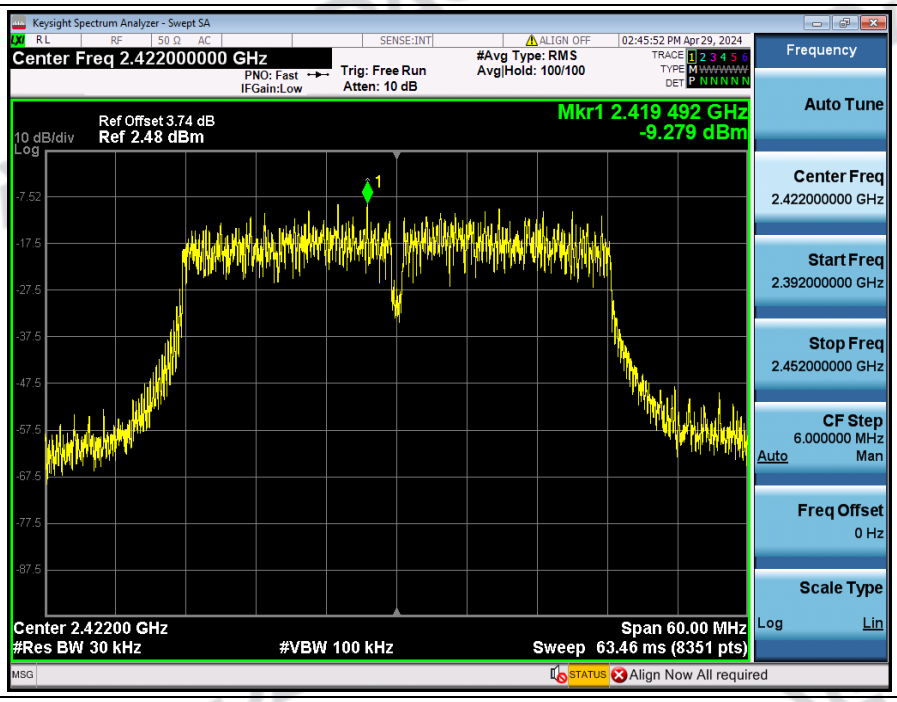
Power_Spectral_Density_NVNT_ANT2_802_11n(HT20)_2437



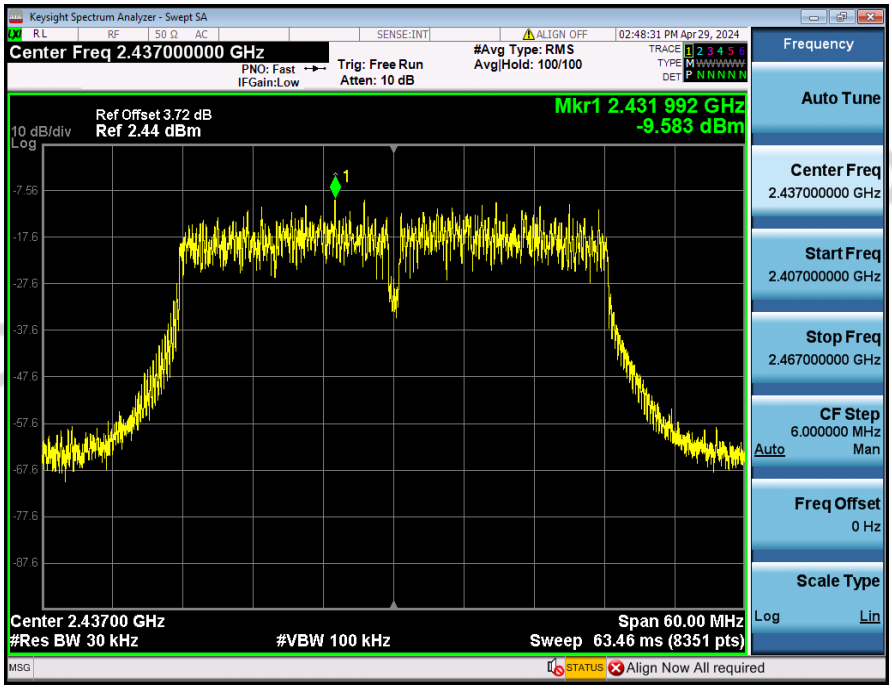
Power_Spectral_Density_NVNT_ANT2_802_11n(HT20)_2462



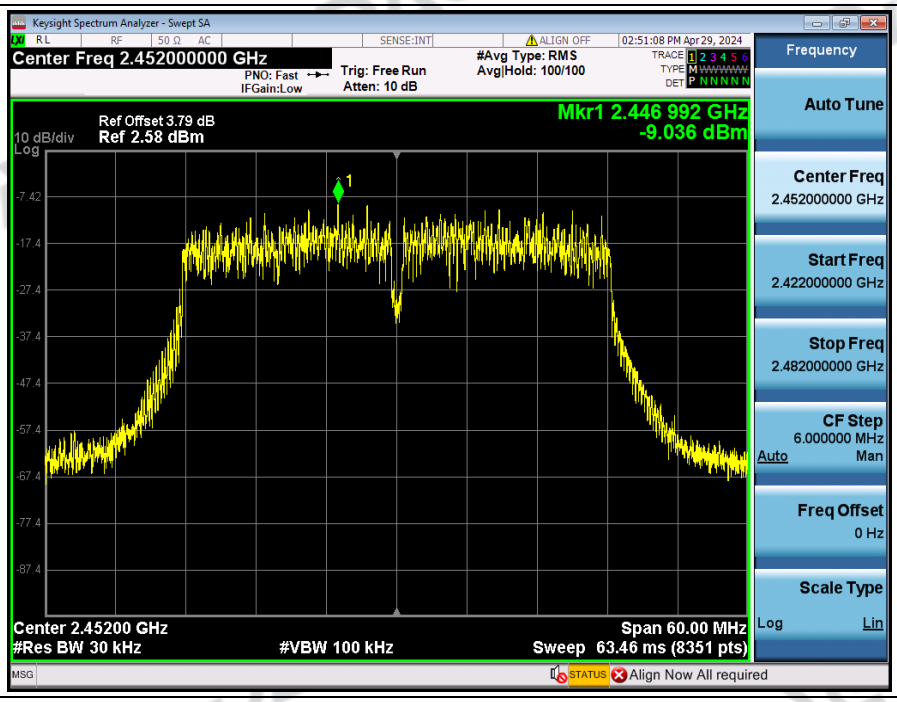
Power_Spectral_Density_NVNT_ANT2_802_11n(HT40)_2422



Power_Spectral_Density_NVNT_ANT2_802_11n(HT40)_2437



Power_Spectral_Density_NVNT_ANT2_802_11n(HT40)_2452



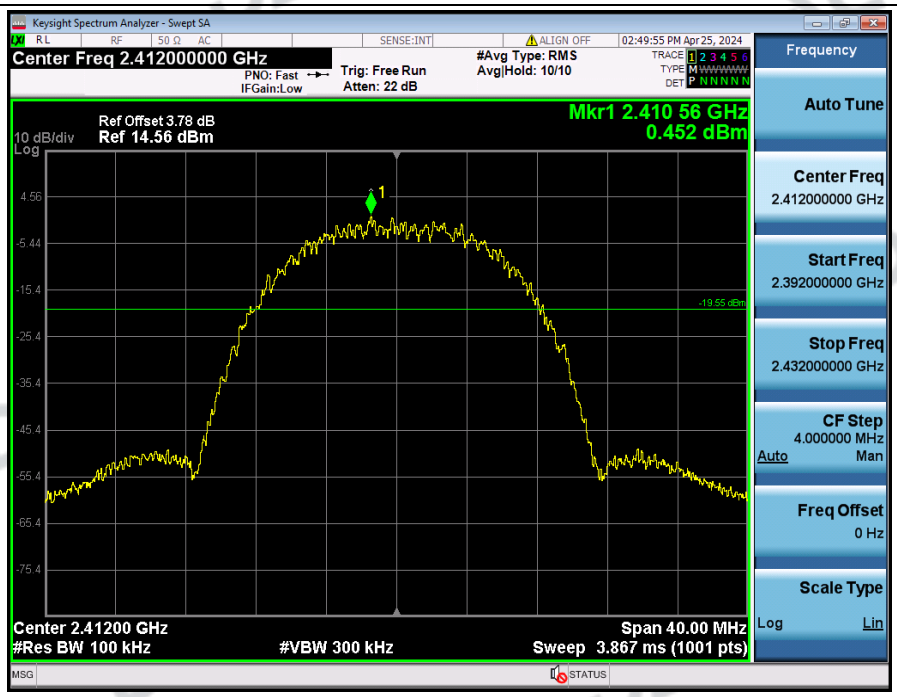
Condition	Antenna	Modulation	Frequency (MHz)	MIMO-PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	MIMO	802.11n(HT20)	2412.00	-7.91	8	Pass
NVNT	MIMO	802.11n(HT20)	2437.00	-14.77	8	Pass
NVNT	MIMO	802.11n(HT20)	2462.00	-14.19	8	Pass
NVNT	MIMO	802.11n(HT40)	2422.00	-17.32	8	Pass
NVNT	MIMO	802.11n(HT40)	2437.00	-17.66	8	Pass
NVNT	MIMO	802.11n(HT40)	2452.00	-17.00	8	Pass

Note: the MIMO antenna gain is 5.51<6dBi, so the MIMO Limit is still 8dBm/3KHz

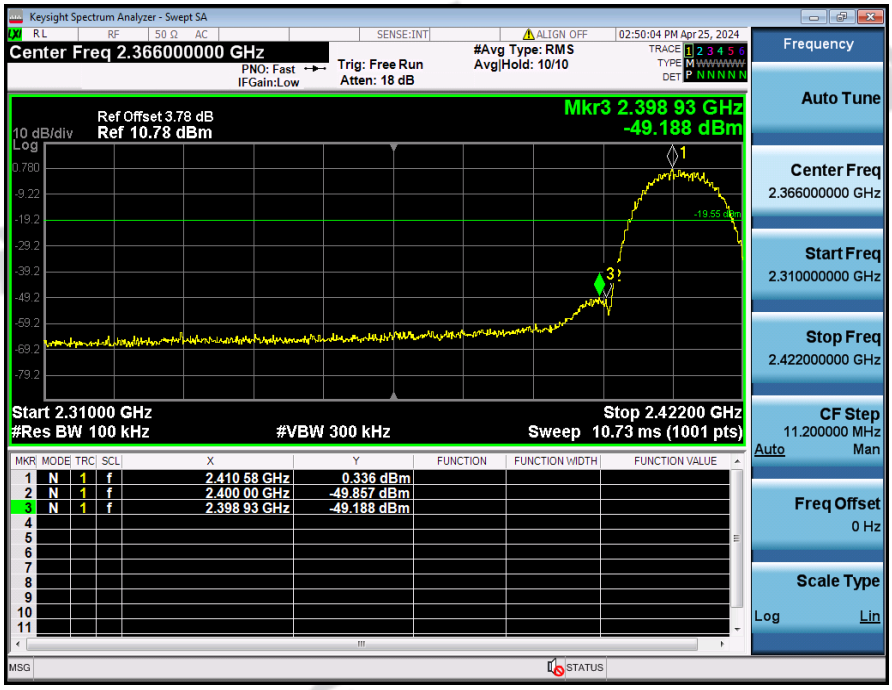
5. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2398.928	-49.188	-19.548	Pass
NVNT	ANT1	802.11b	2462.00	2486.800	-58.539	-19.801	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-42.975	-24.855	Pass
NVNT	ANT1	802.11g	2462.00	2484.064	-57.543	-24.367	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-41.378	-24.864	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.112	-56.363	-24.709	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.892	-48.210	-28.304	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2485.108	-57.508	-27.988	Pass
NVNT	ANT2	802.11b	2412.00	2398.480	-46.604	-20.052	Pass
NVNT	ANT2	802.11b	2462.00	2486.656	-56.018	-18.507	Pass
NVNT	ANT2	802.11g	2412.00	2399.936	-43.704	-22.251	Pass
NVNT	ANT2	802.11g	2462.00	2483.920	-55.044	-20.106	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	2399.936	-43.394	-24.058	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	2485.024	-57.073	-21.897	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	2399.496	-47.584	-25.008	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	2487.012	-53.796	-24.821	Pass

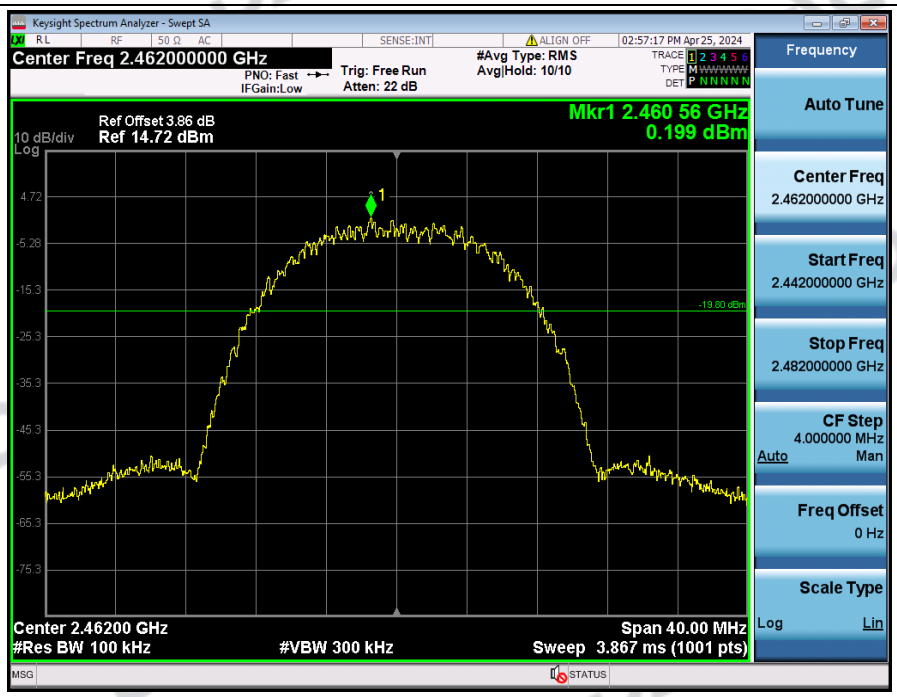
1_Reference_Level_NVNT_ANT1_802_11b_2412



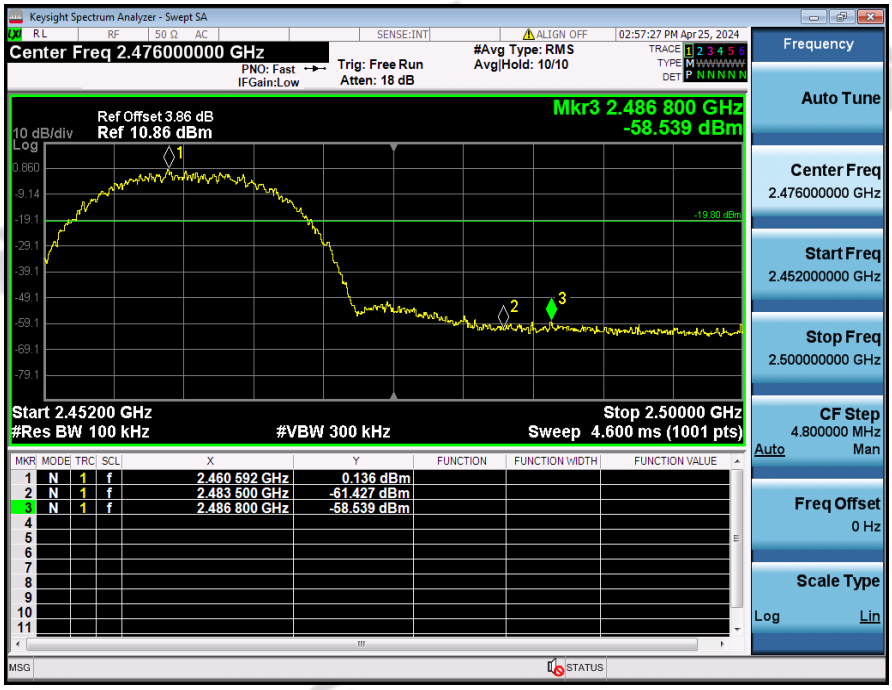
2_Bandedge_NVNT_ANT1_802_11b_2412



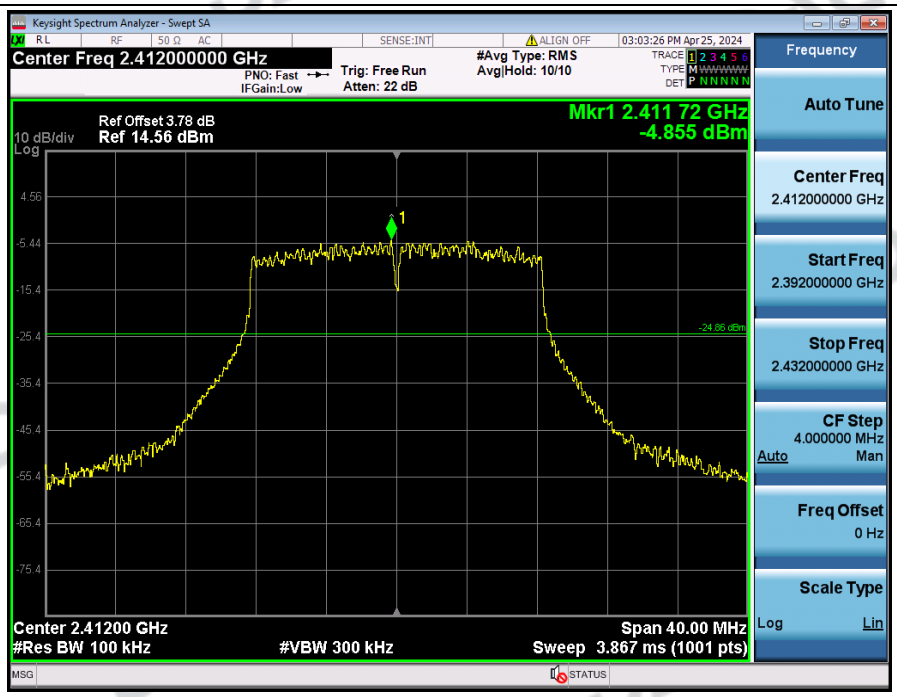
1_Reference_Level_NVNT_ANT1_802_11b_2462



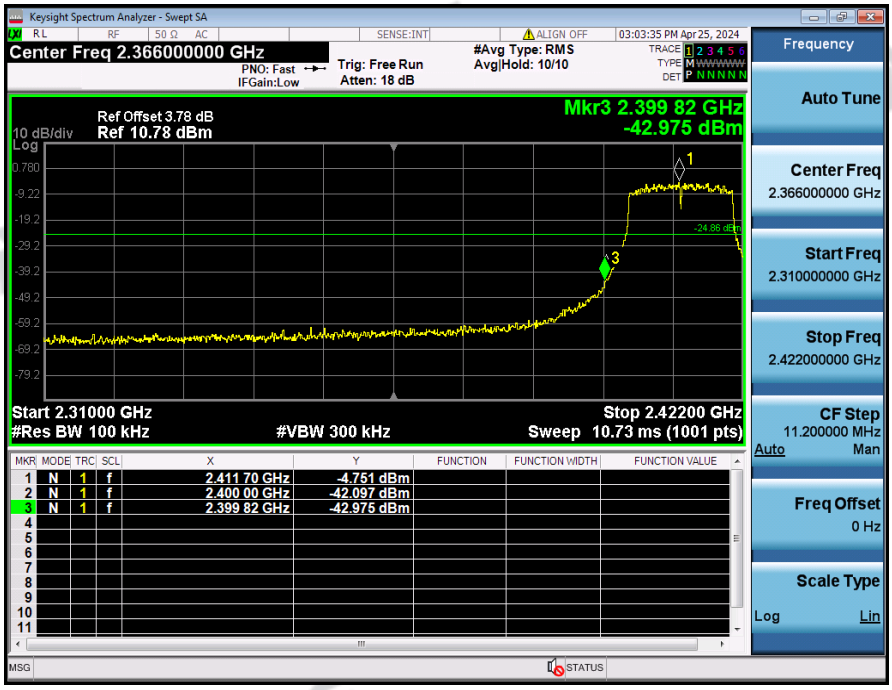
2_Bandedge_NVNT_ANT1_802_11b_2462



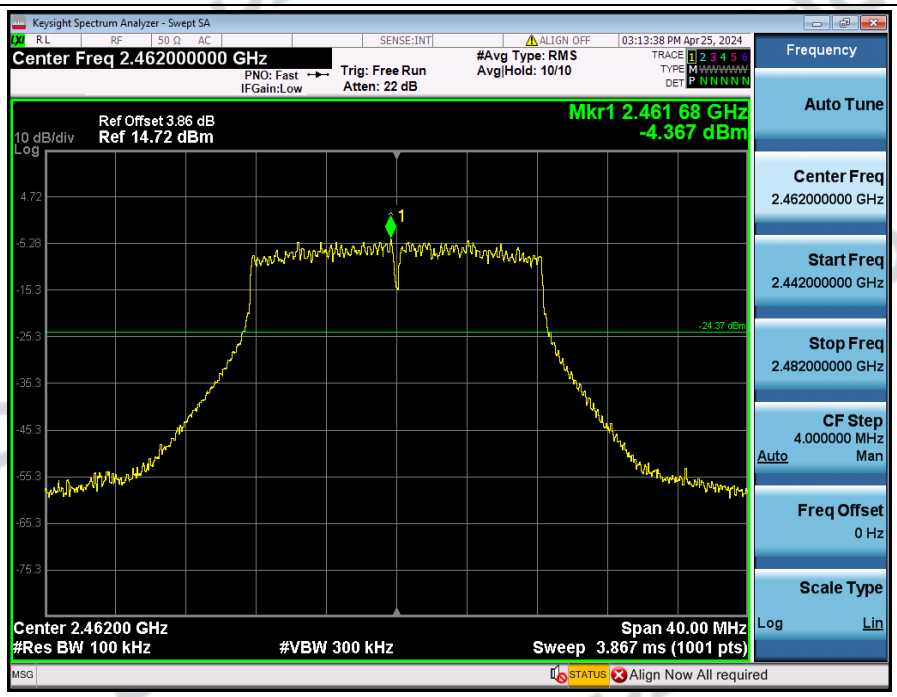
1_Reference_Level_NVNT_ANT1_802_11g_2412



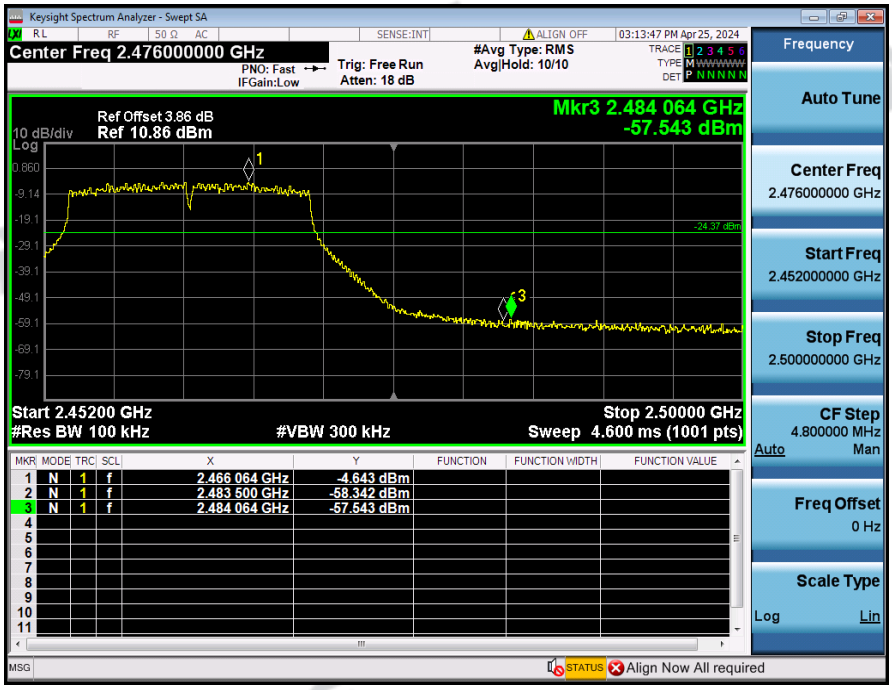
2_Bandedge_NVNT_ANT1_802_11g_2412



1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



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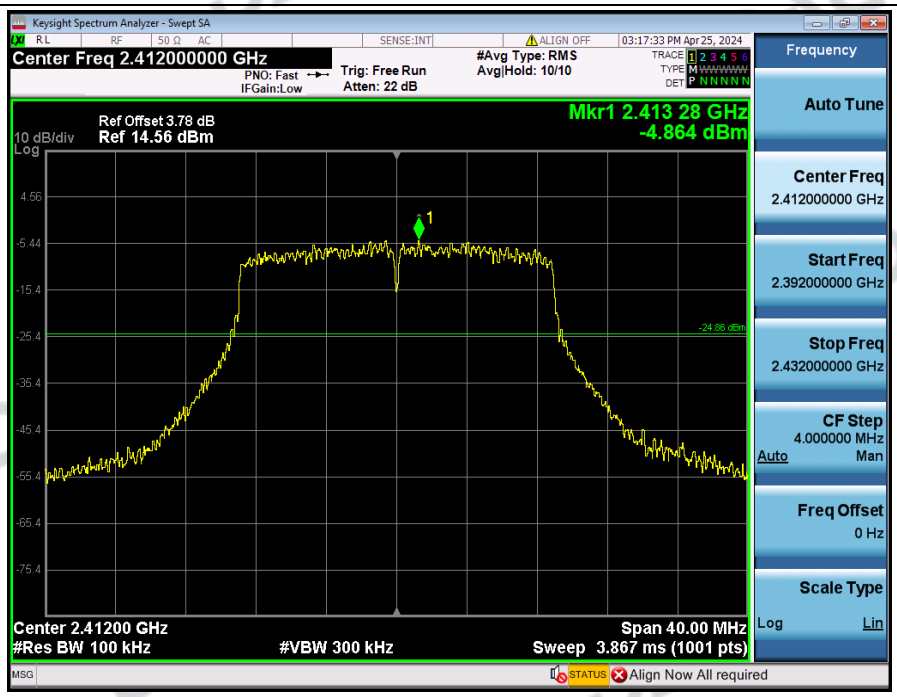

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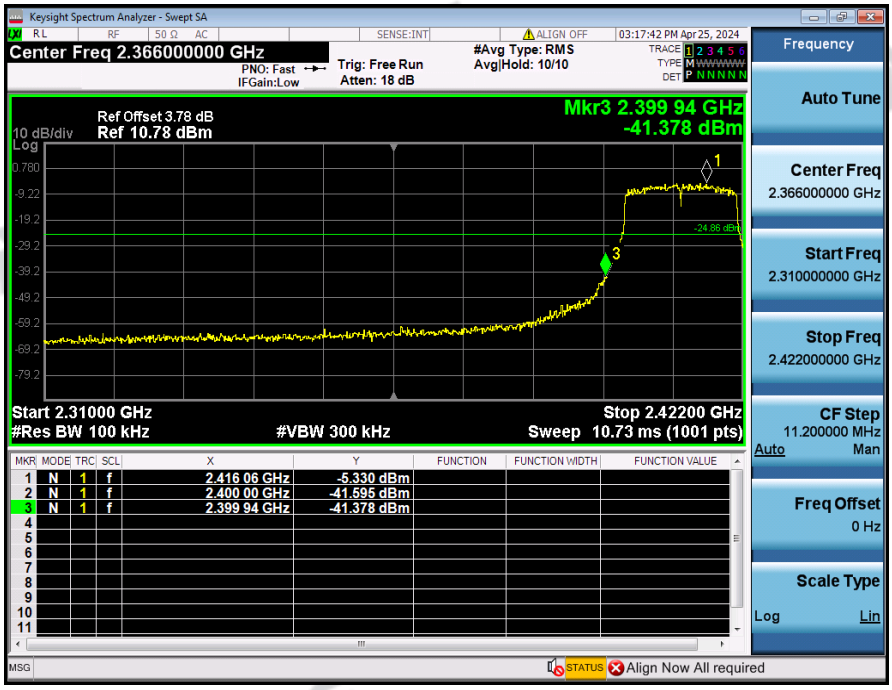

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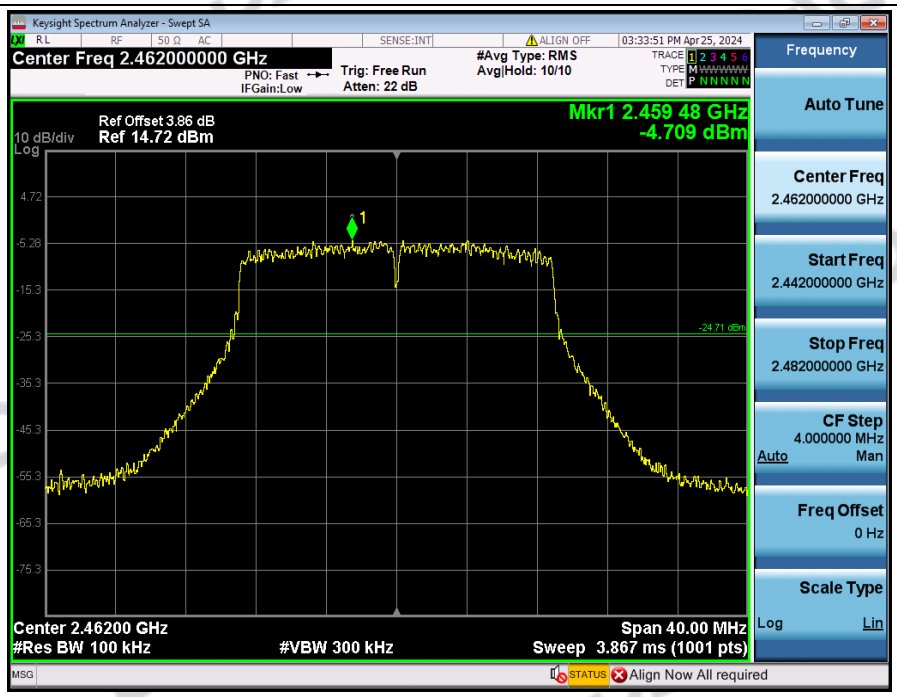

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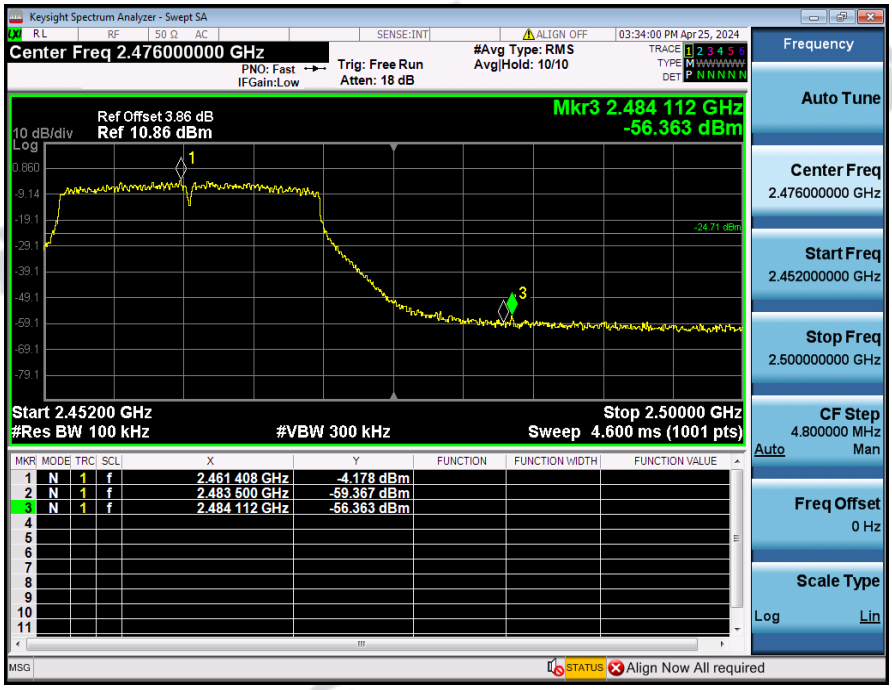
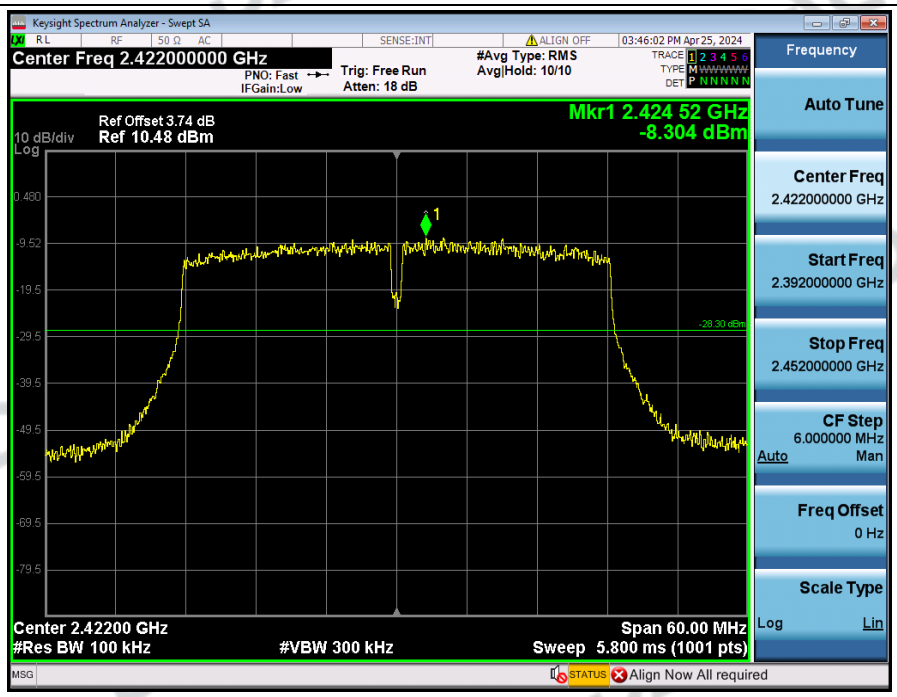


1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



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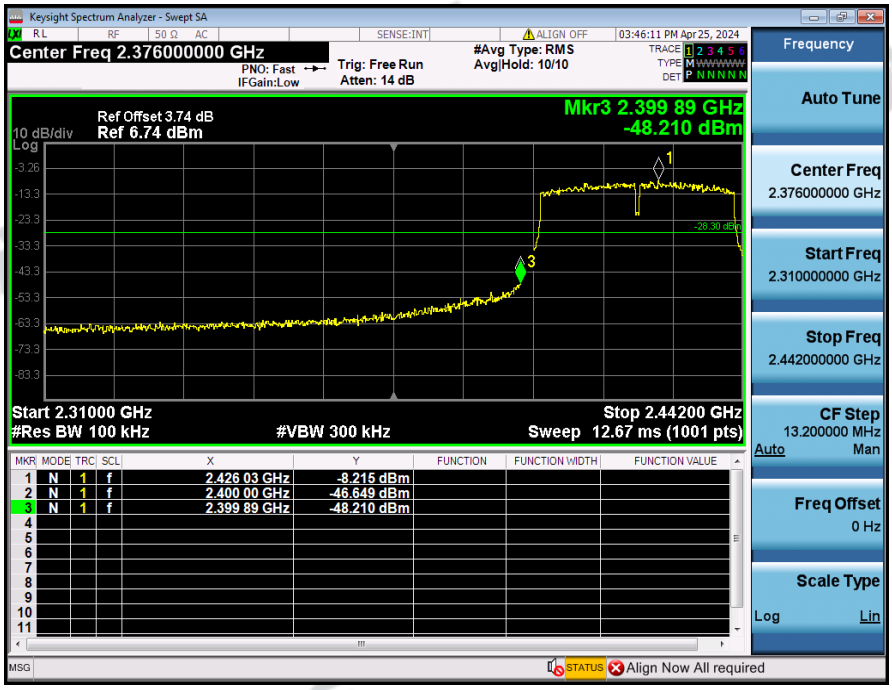

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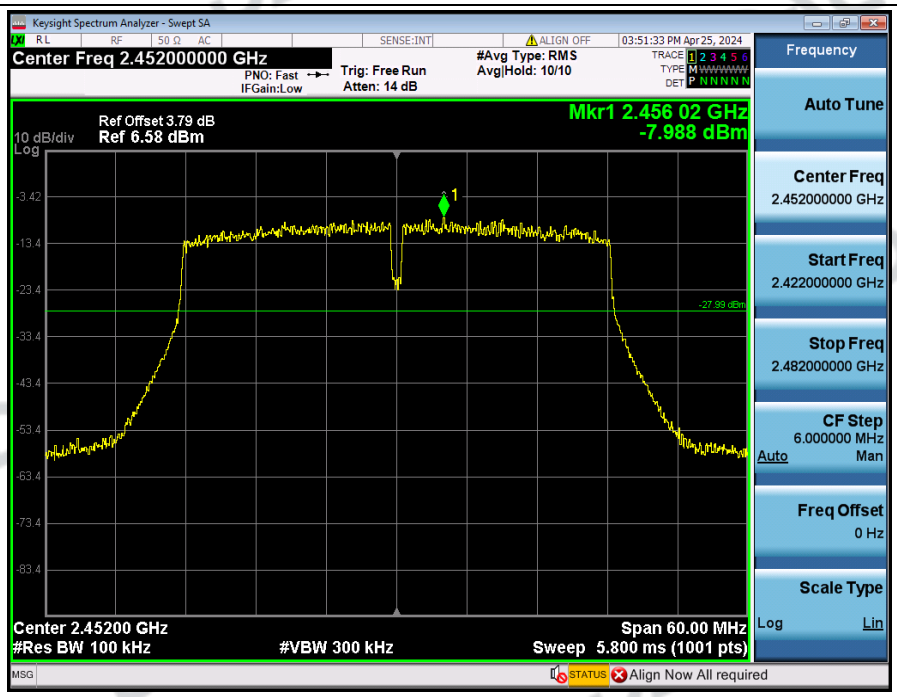

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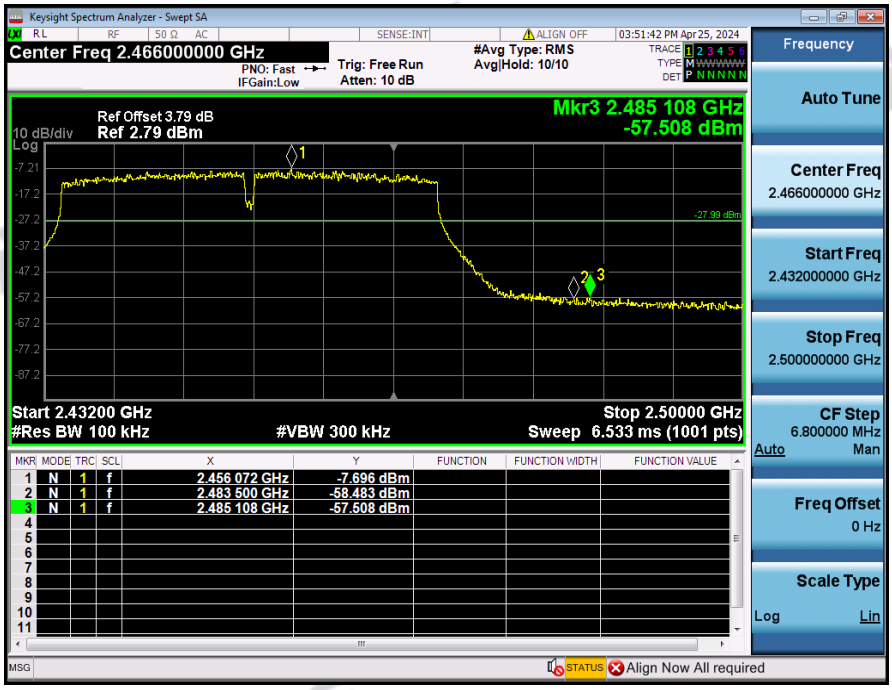

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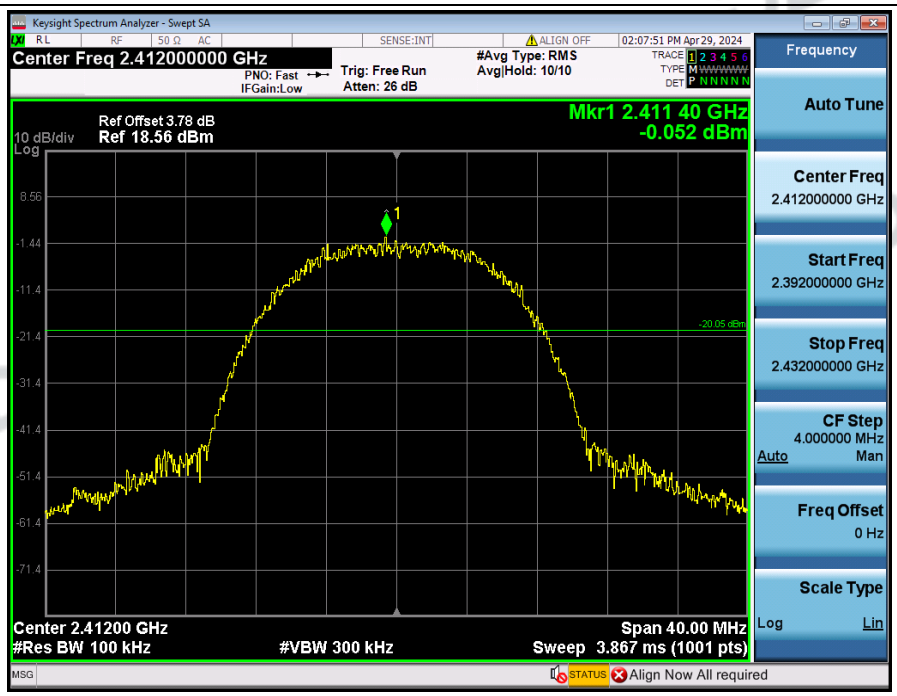

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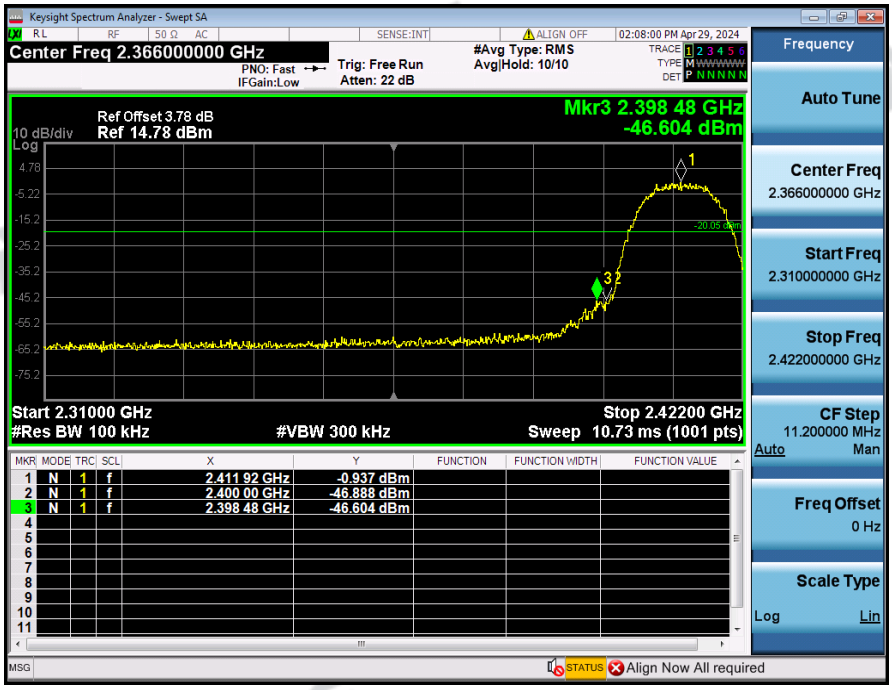

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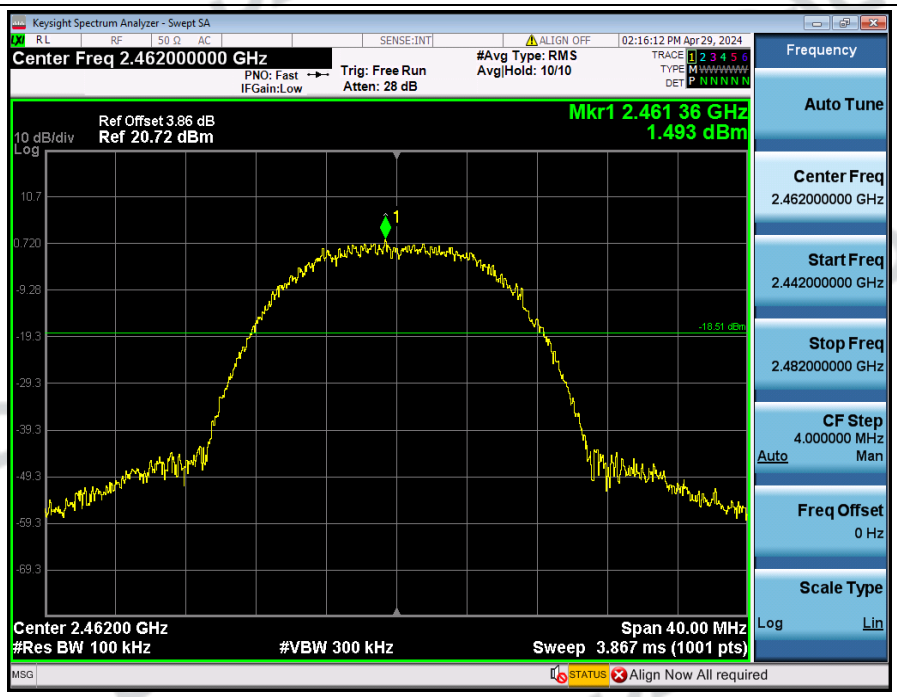

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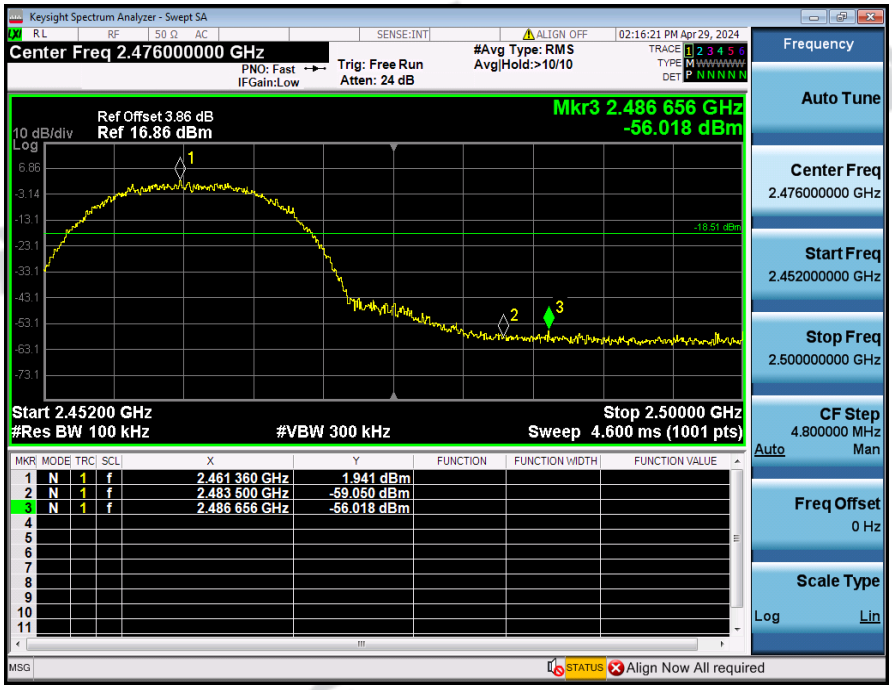

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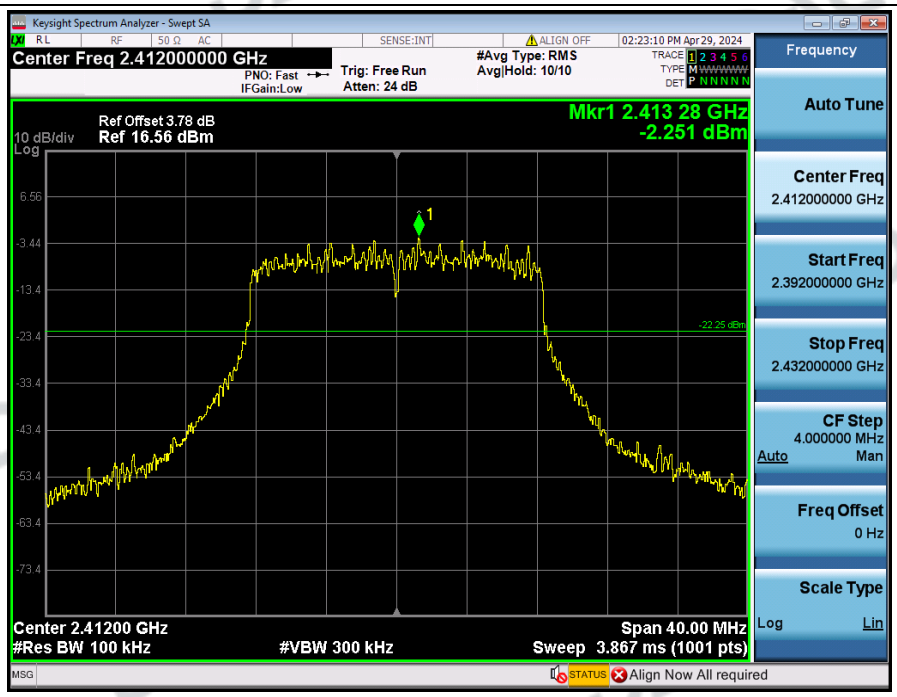

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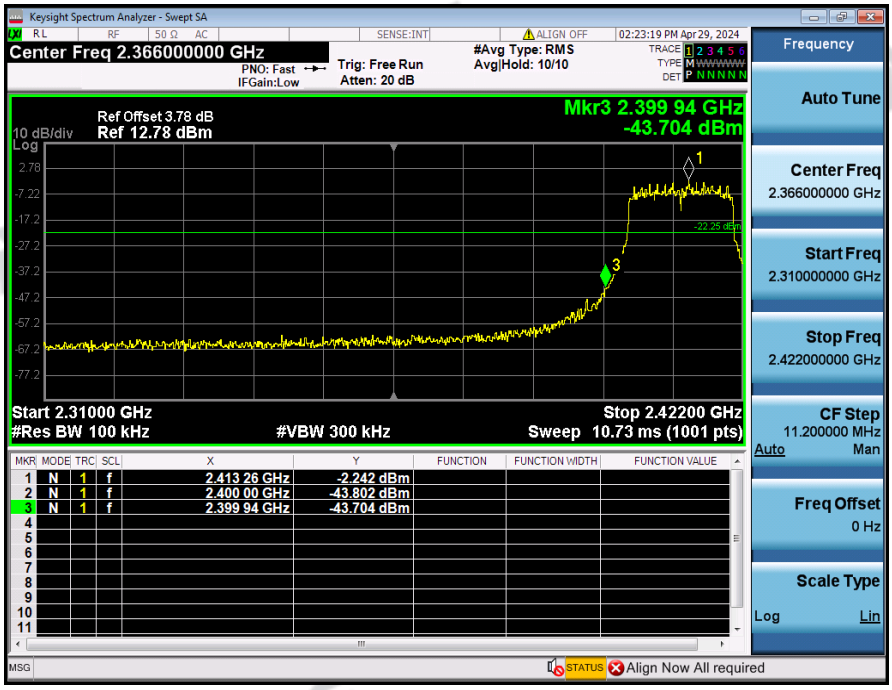

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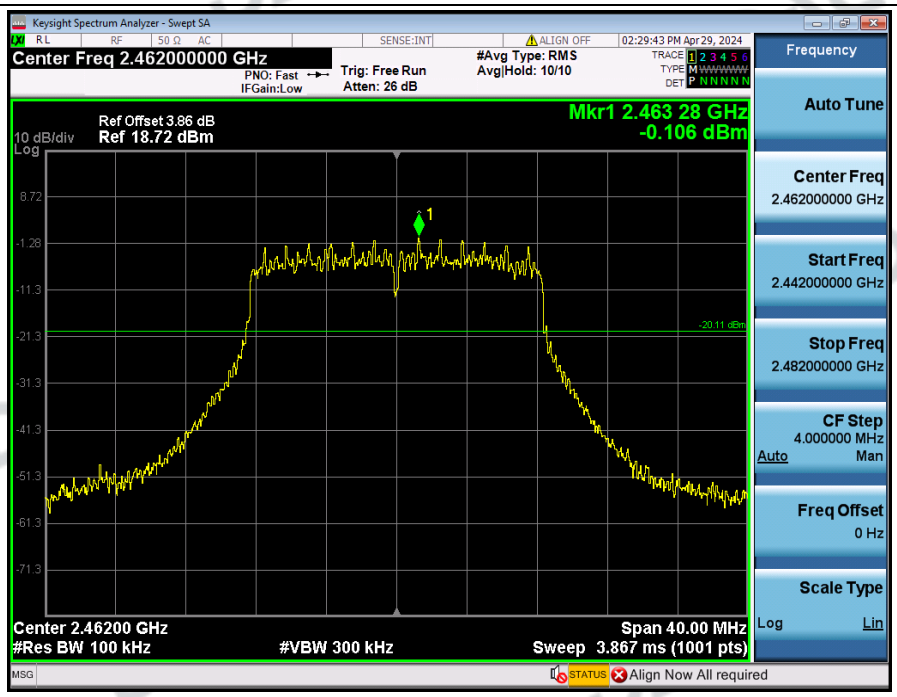

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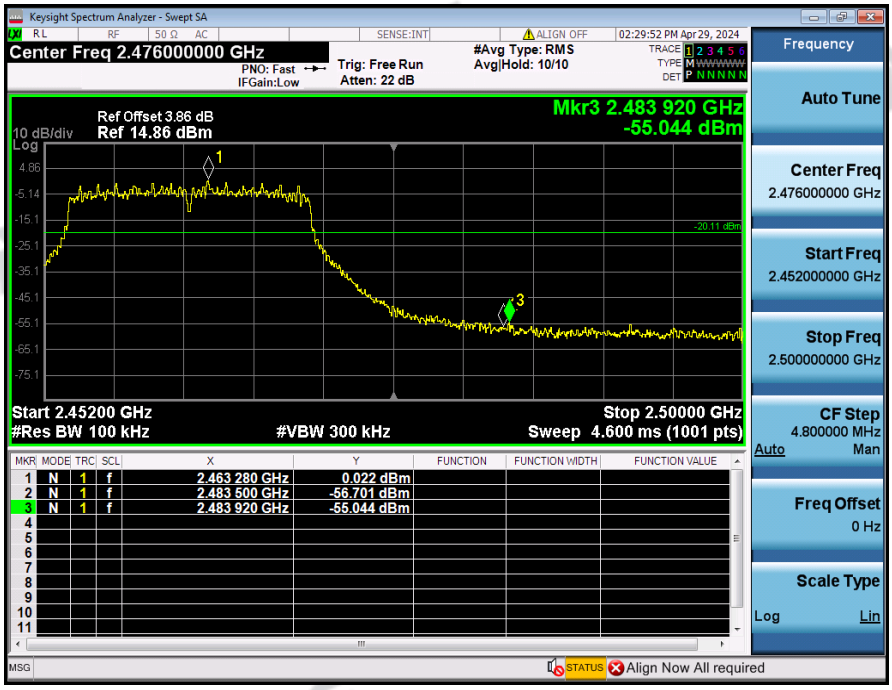

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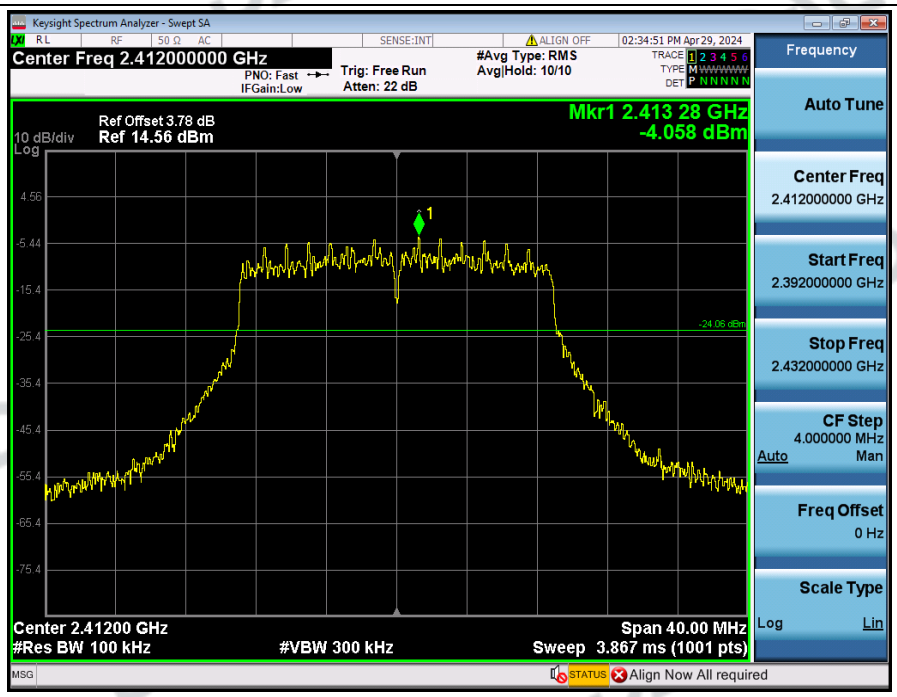

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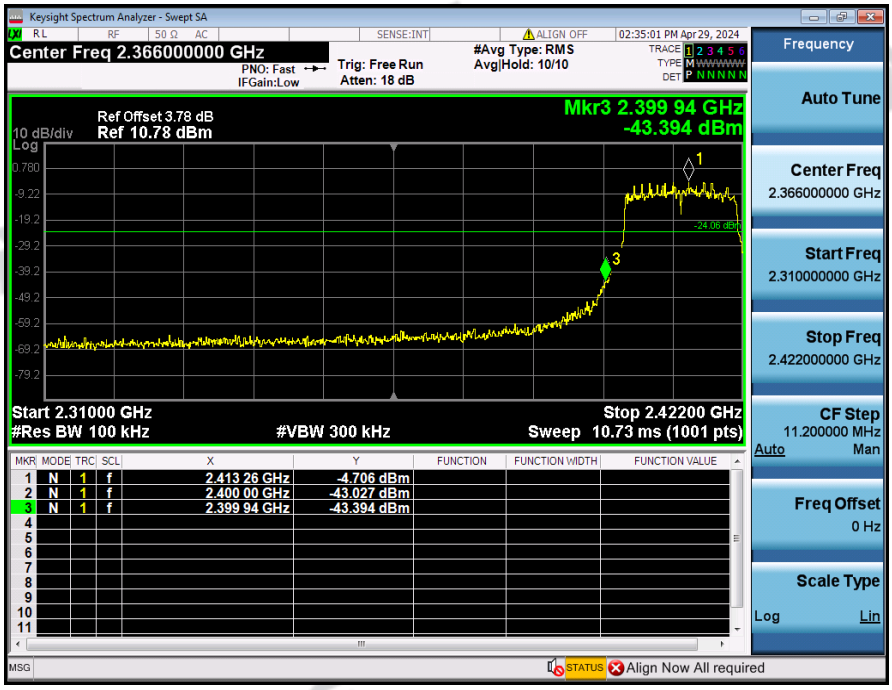

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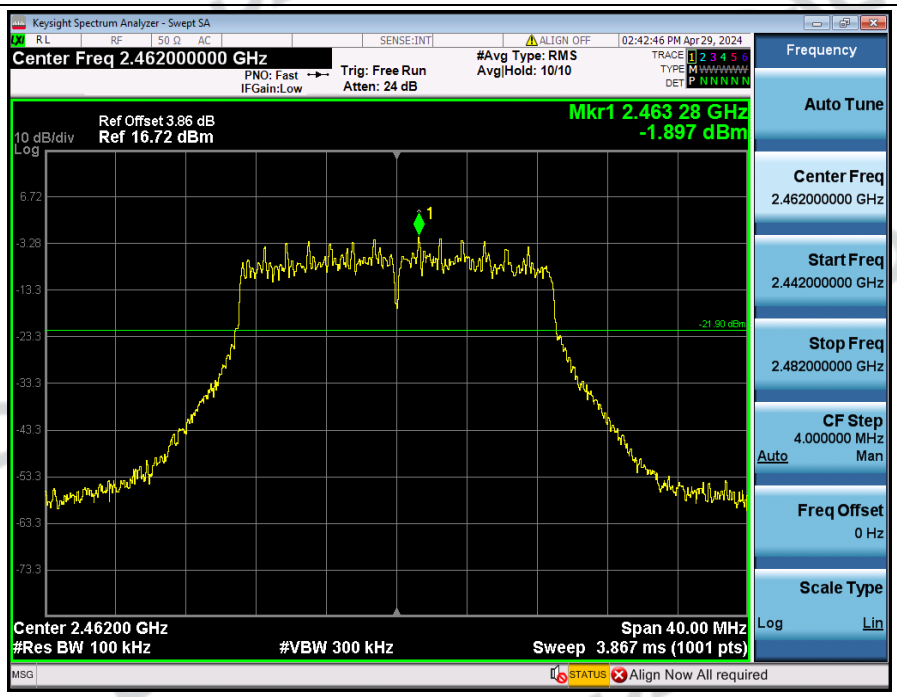

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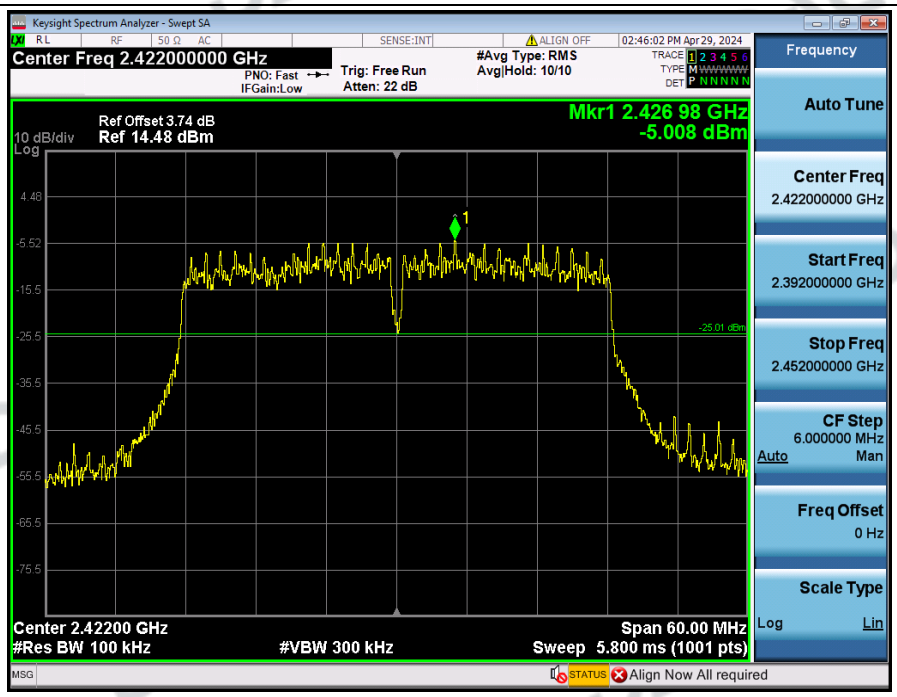
1_Reference_Level_NVNT_ANT2_802_11n(HT40)_2422



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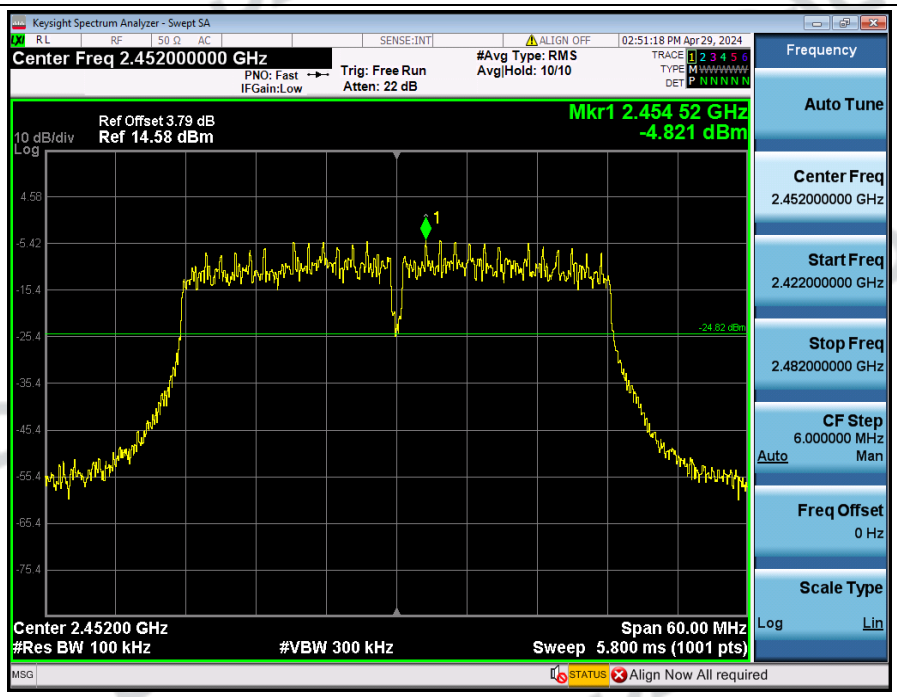
1_Reference_Level_NVNT_ANT2_802_11n(HT40)_2452



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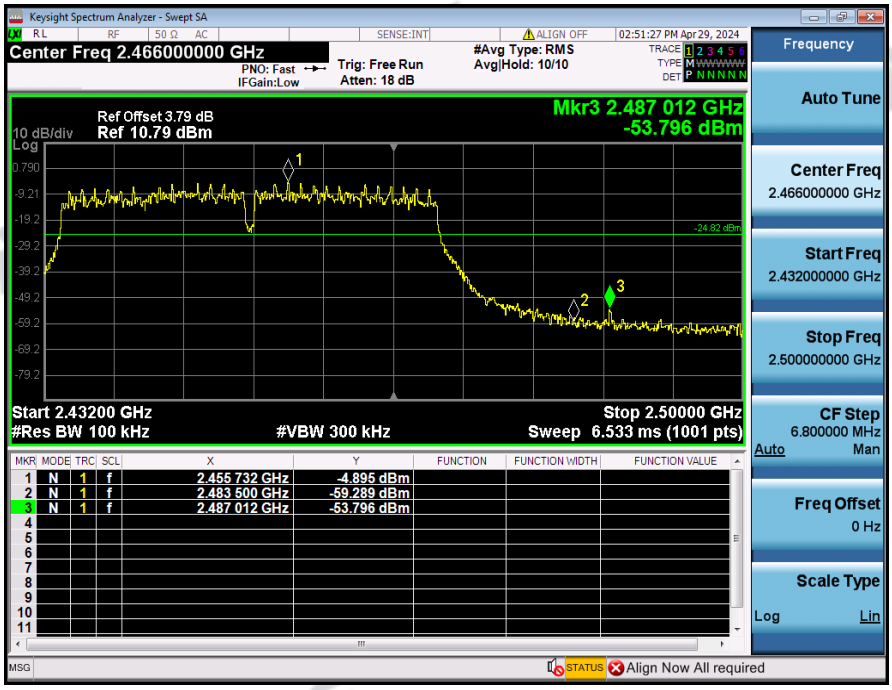
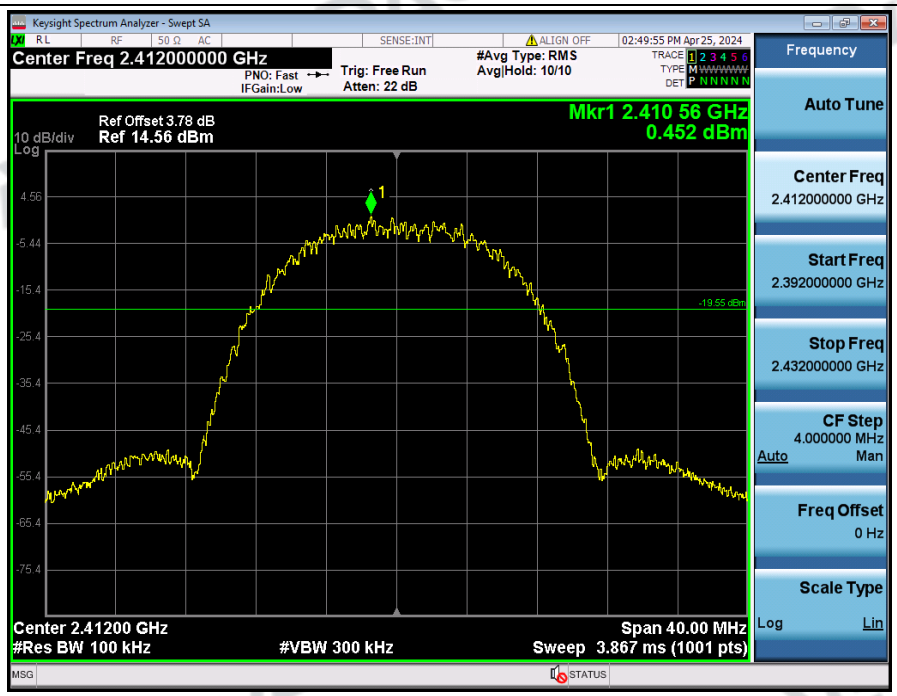

Keysight Spectrum Analyzer - Swept SA
Center Freq 2.466000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 18 dB
#Avg Type: RMS
Avg|Hold: 10/10
02:51:27 PM Apr 29, 2024
Ref Offset 3.79 dB
10 dB/div
Ref 10.79 dBm
Log
Mkr3 2.487 012 GHz
-53.796 dBm
-24.82 dBm
Start 2.43200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.50000 GHz
Sweep 6.533 ms (1001 pts)
1 N 1 f 2.455 732 GHz -4.895 dBm
2 N 1 f 2.483 500 GHz -59.289 dBm
3 N 1 f 2.487 012 GHz -53.796 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
Align Now All required

6. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24977.527	-53.553	-19.548	Pass
NVNT	ANT1	802.11b	2437.00	24947.563	-53.204	-19.550	Pass
NVNT	ANT1	802.11b	2462.00	24498.103	-53.469	-19.801	Pass
NVNT	ANT1	802.11g	2412.00	24895.126	-53.508	-24.855	Pass
NVNT	ANT1	802.11g	2437.00	23988.715	-53.367	-24.459	Pass
NVNT	ANT1	802.11g	2462.00	24513.085	-53.511	-24.367	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24890.132	-54.023	-24.864	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24952.557	-53.720	-24.816	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24563.025	-53.266	-24.709	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24972.533	-58.091	-28.304	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24403.217	-58.356	-28.539	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2502.030	-59.884	-27.988	Pass
NVNT	ANT2	802.11b	2412.00	24530.564	-50.127	-20.052	Pass
NVNT	ANT2	802.11b	2437.00	24535.558	-49.415	-19.572	Pass
NVNT	ANT2	802.11b	2462.00	24922.593	-47.341	-18.507	Pass
NVNT	ANT2	802.11g	2412.00	24887.635	-51.401	-22.251	Pass
NVNT	ANT2	802.11g	2437.00	24902.617	-50.046	-21.529	Pass
NVNT	ANT2	802.11g	2462.00	24523.073	-49.980	-20.106	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	24525.570	-53.203	-24.058	Pass
NVNT	ANT2	802.11n(HT20)	2437.00	24935.078	-51.596	-22.885	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	24538.055	-51.247	-21.897	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	24540.552	-54.565	-25.008	Pass
NVNT	ANT2	802.11n(HT40)	2437.00	24543.049	-60.031	-25.903	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	24575.510	-54.342	-24.821	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



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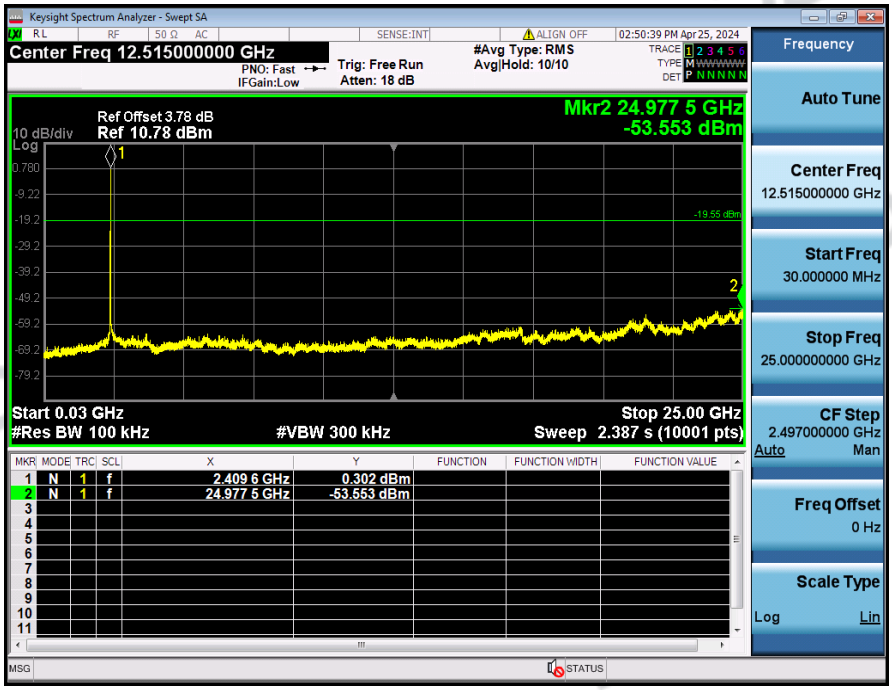

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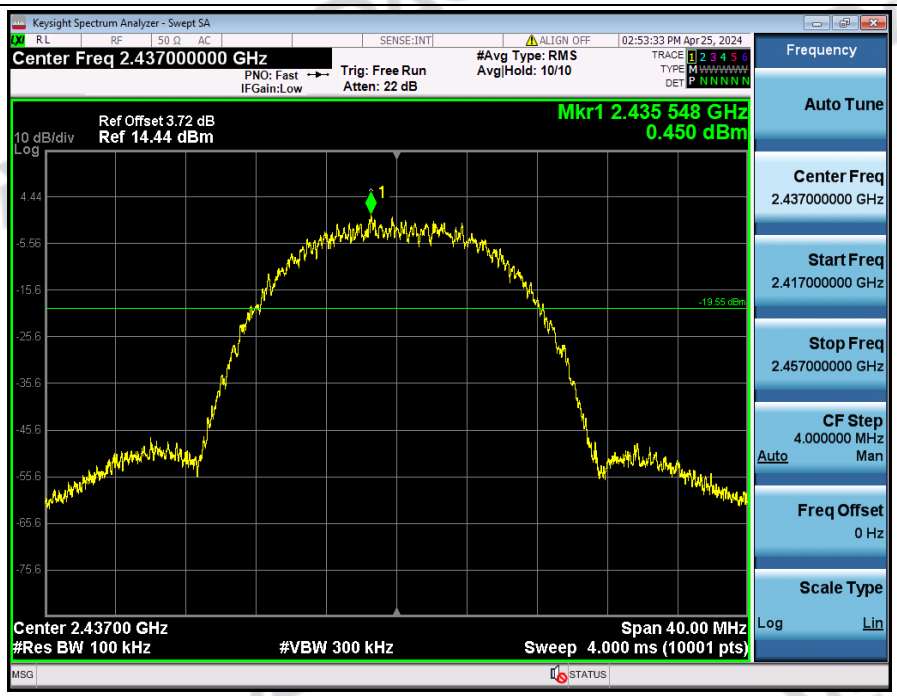

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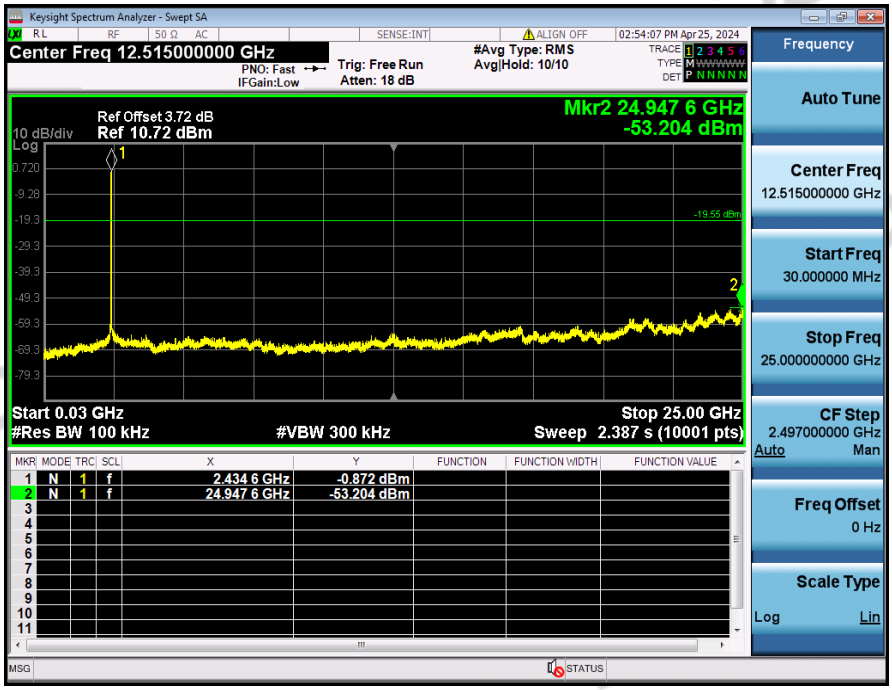

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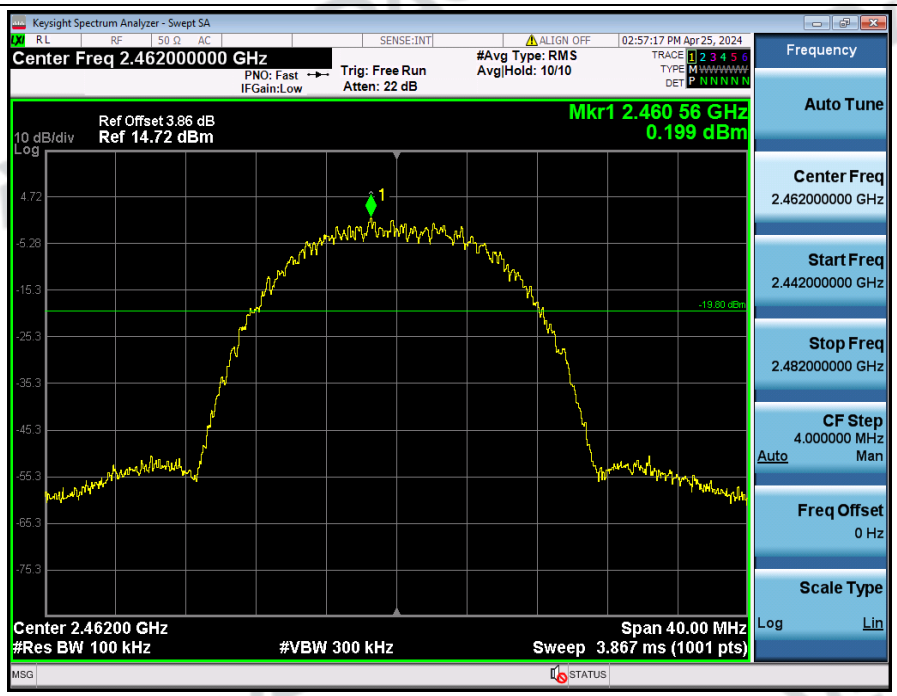
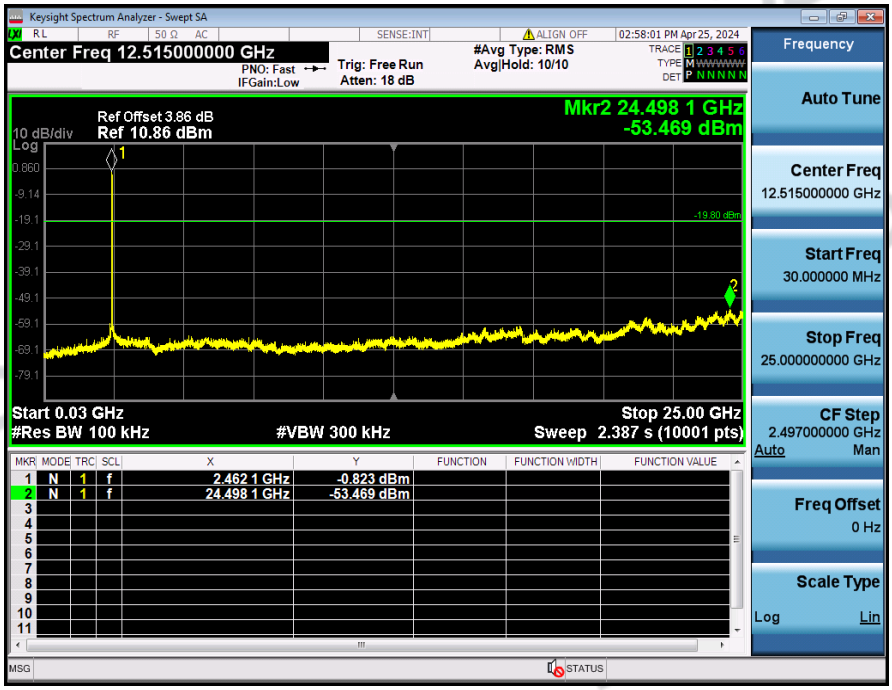
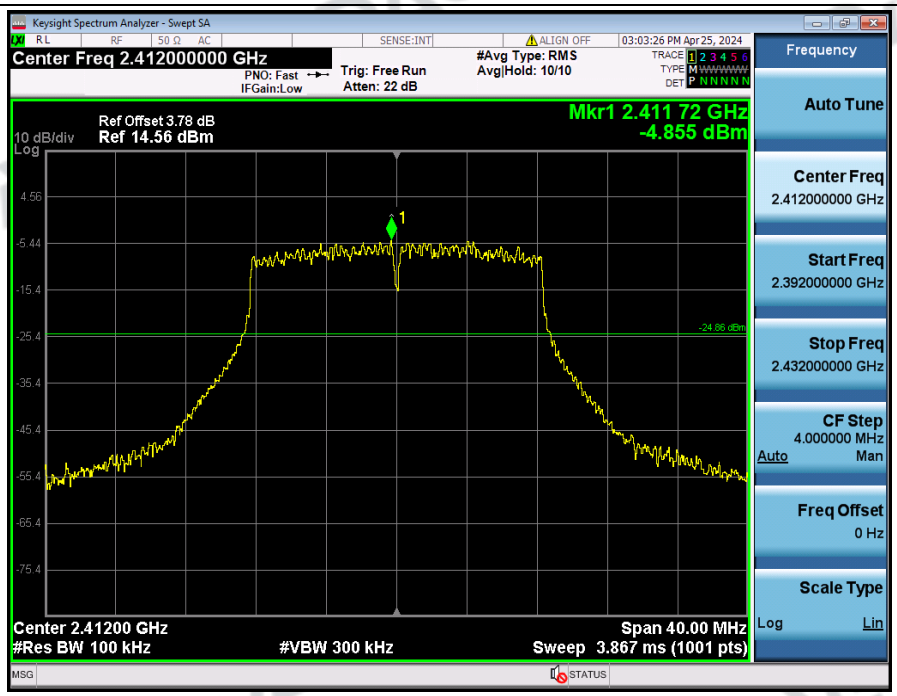


2_Spurious_Emission_NVNT_ANT1_802_11b_2462



1_Reference_Level_NVNT_ANT1_802_11g_2412



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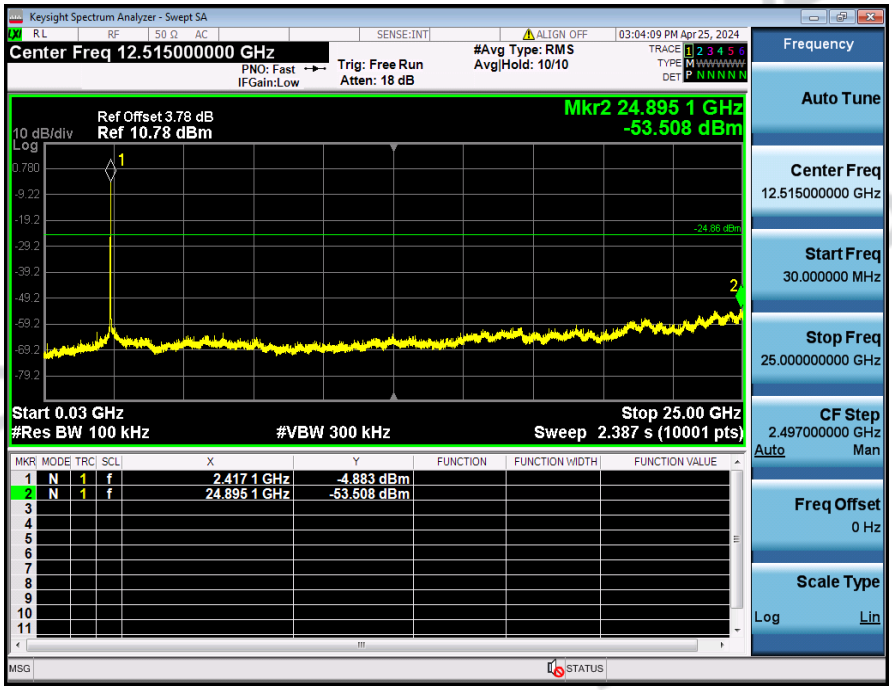

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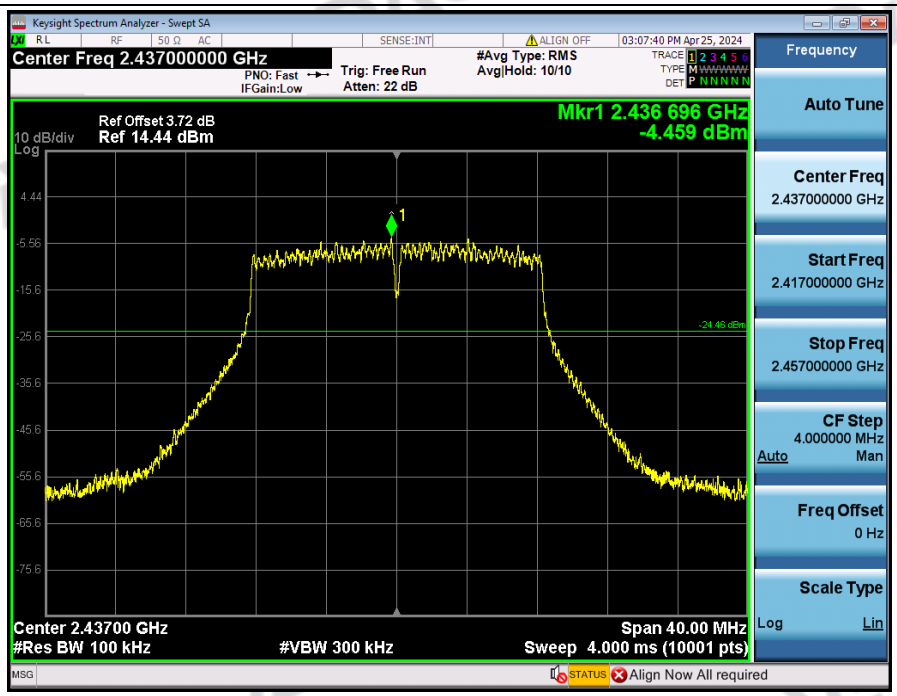

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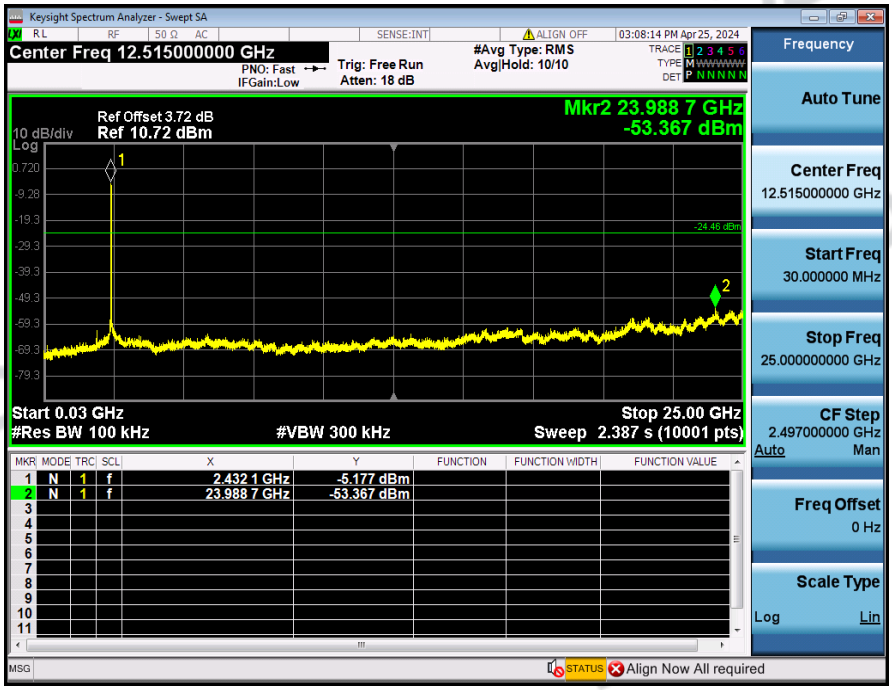

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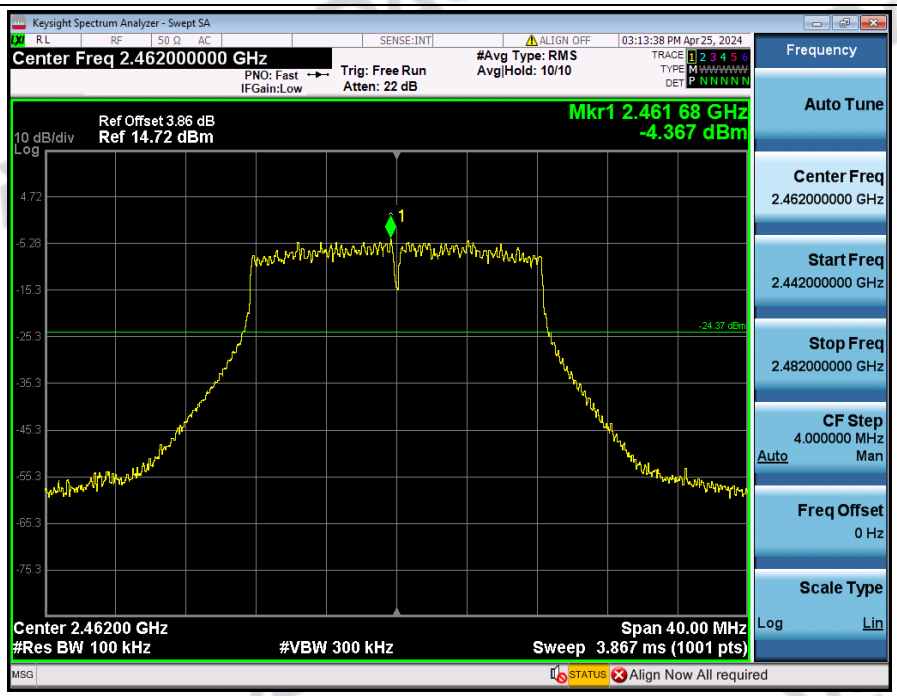

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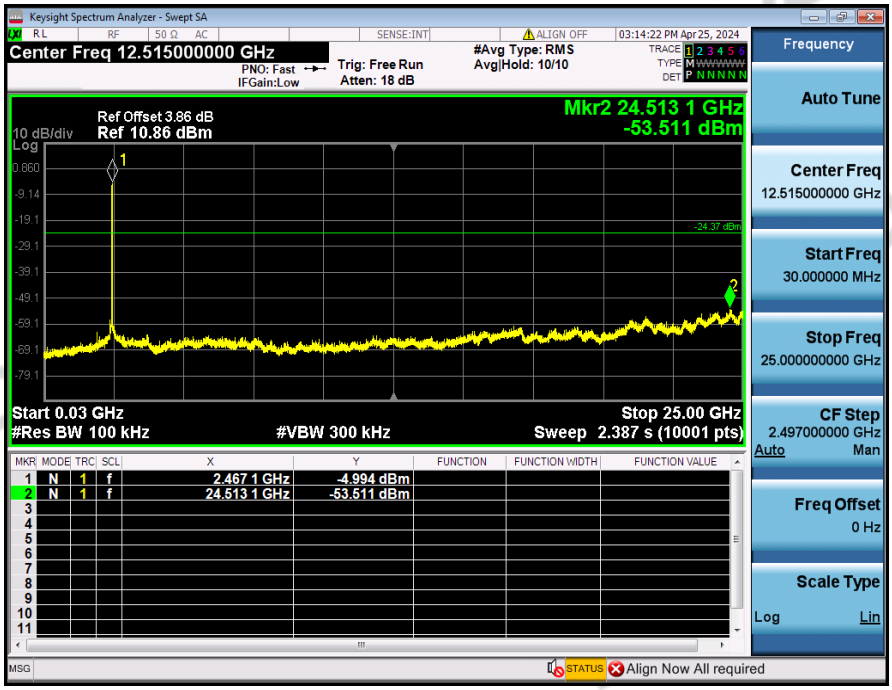

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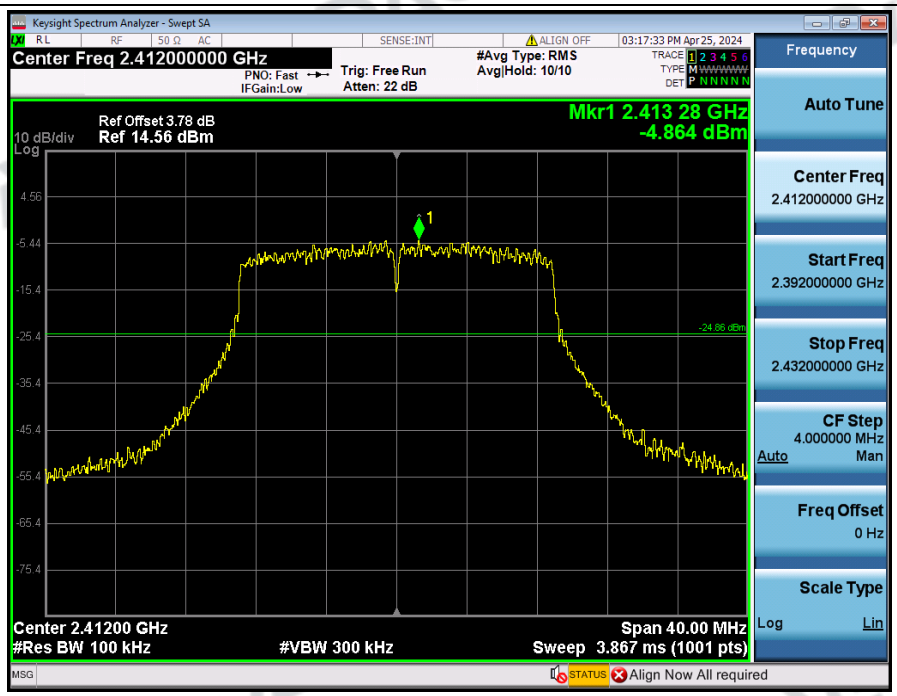

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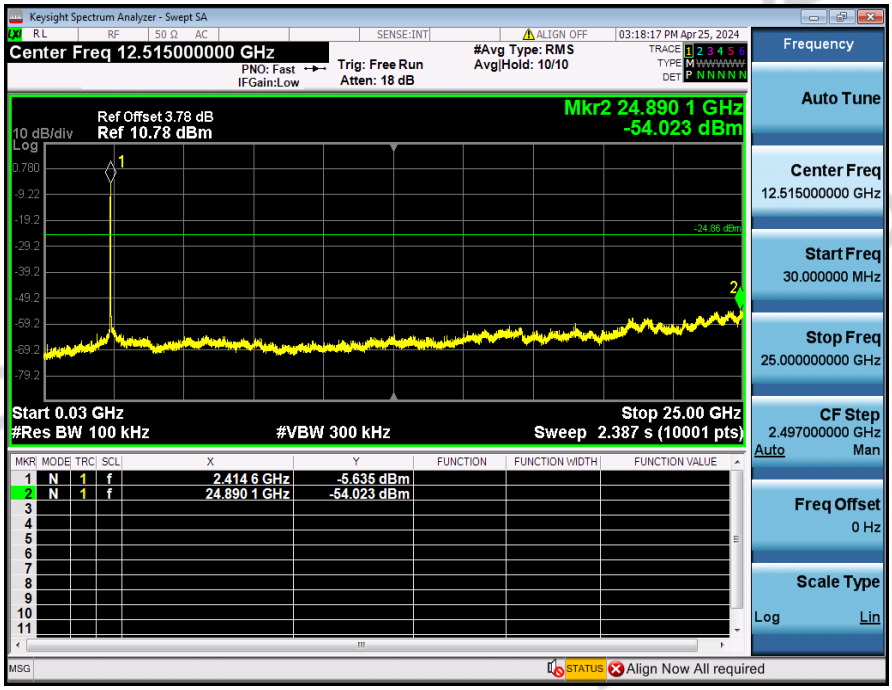

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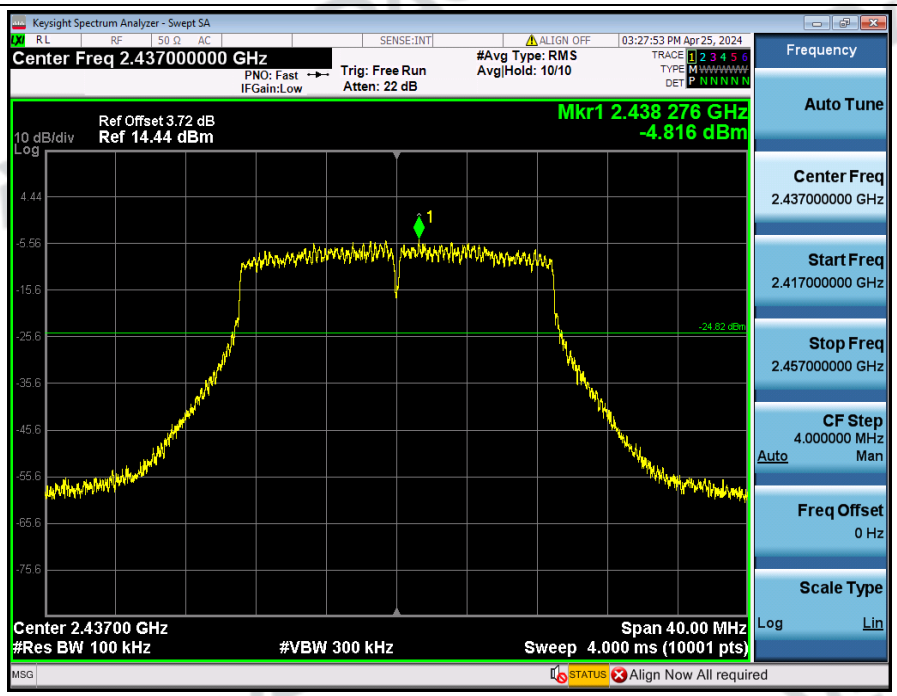

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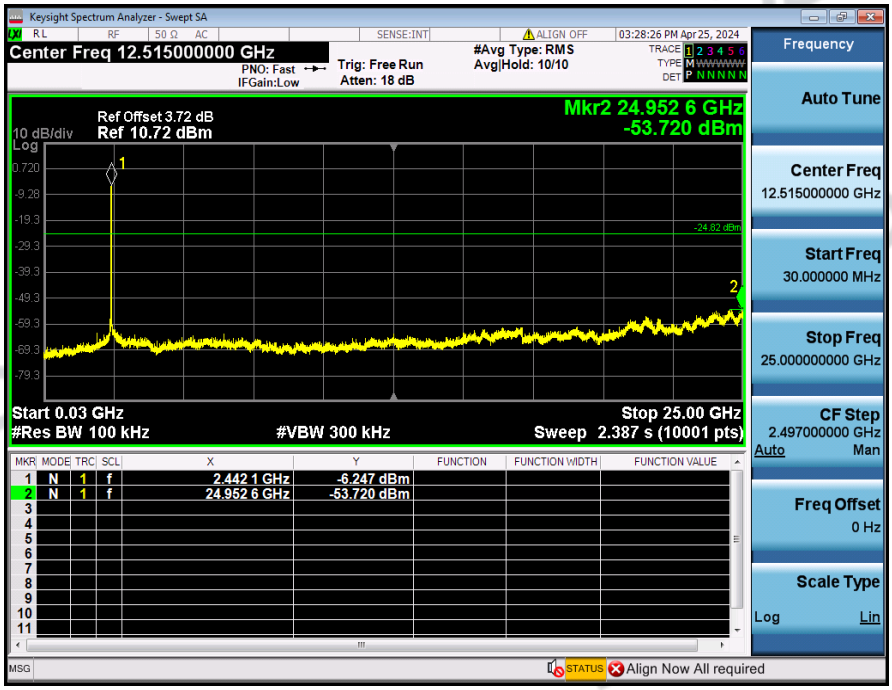

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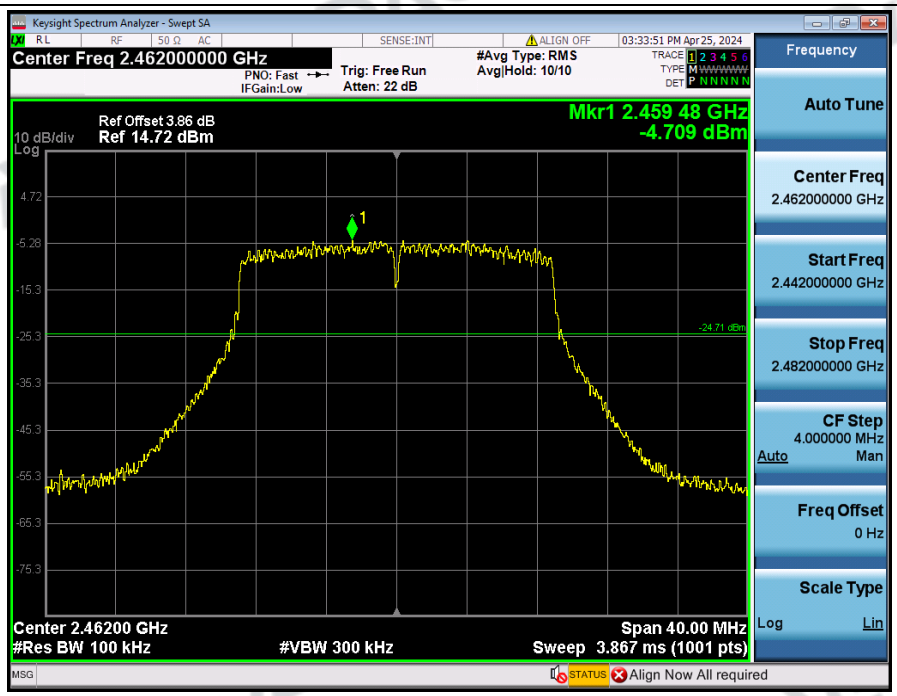

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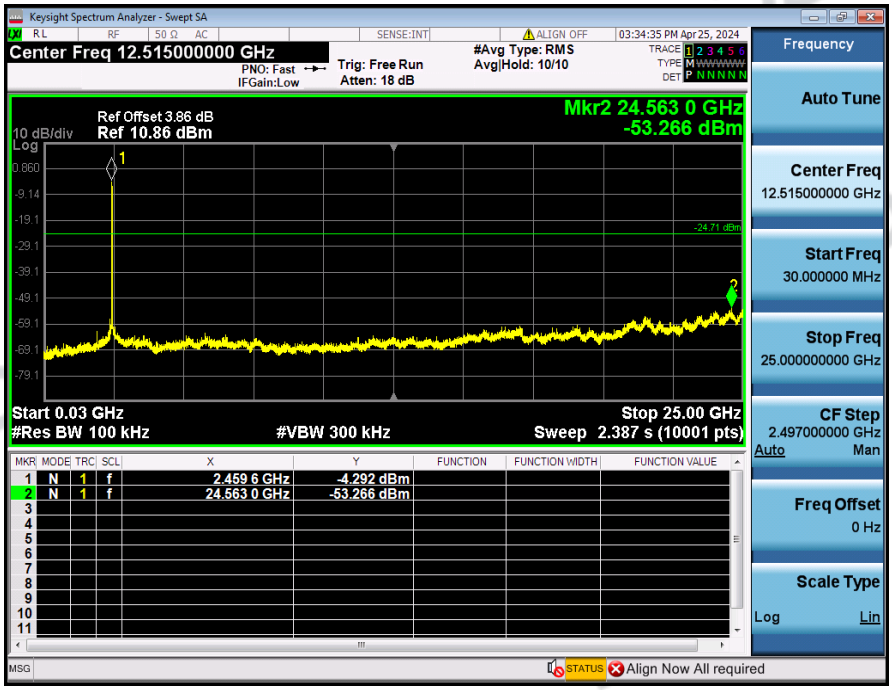
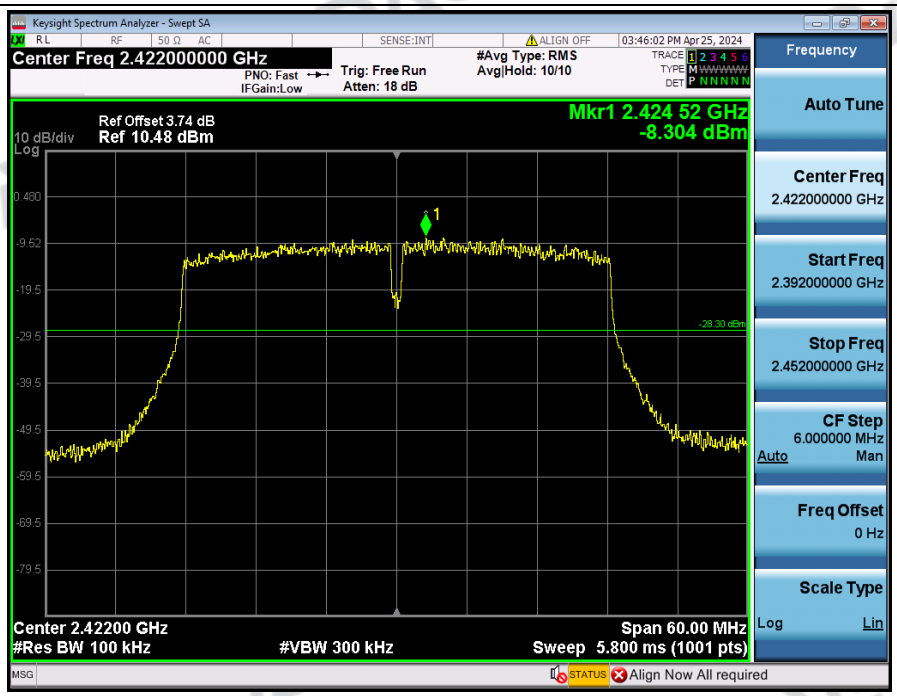
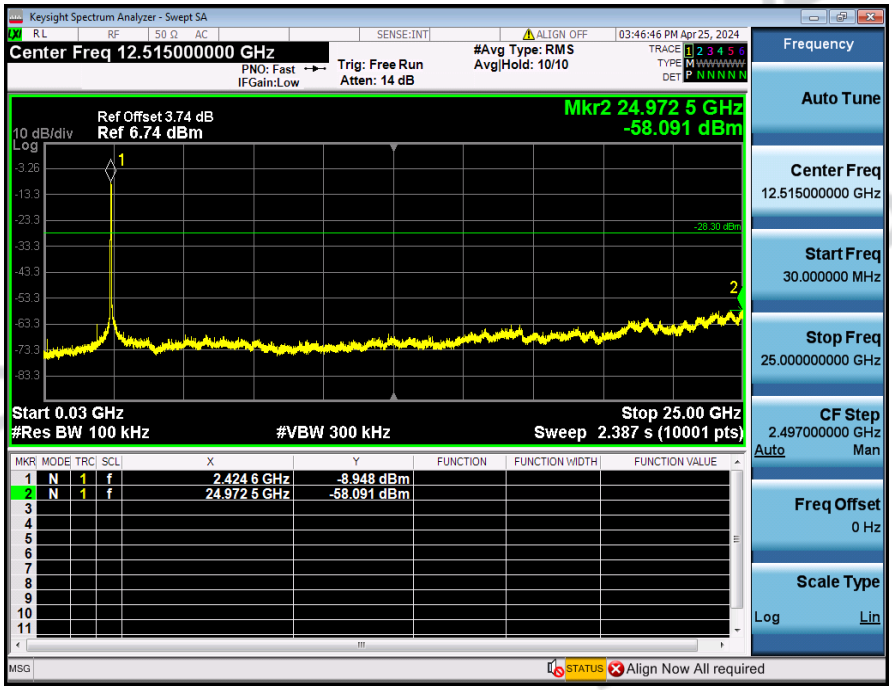


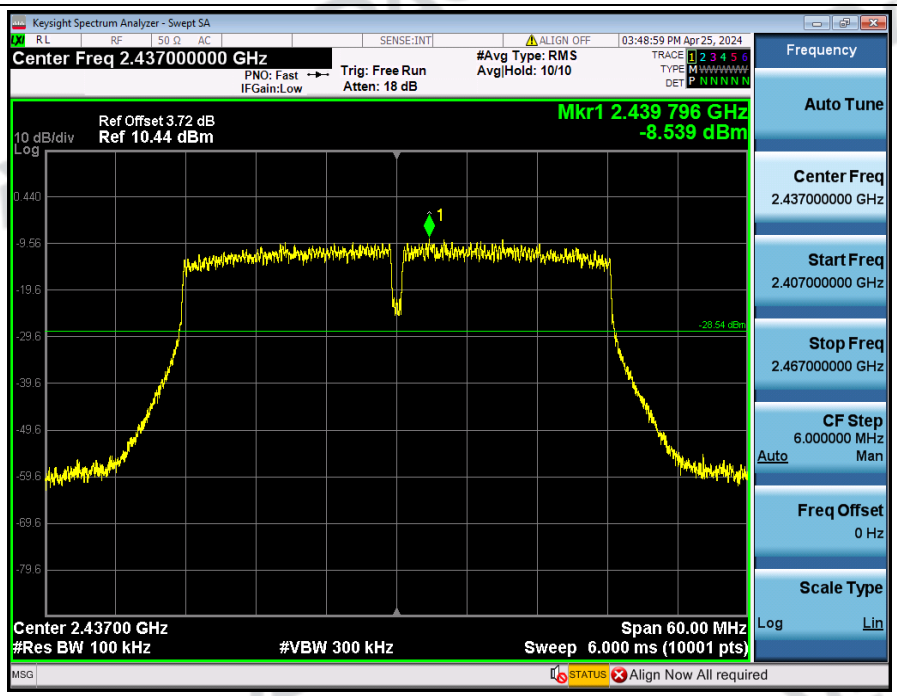
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2422



2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2437



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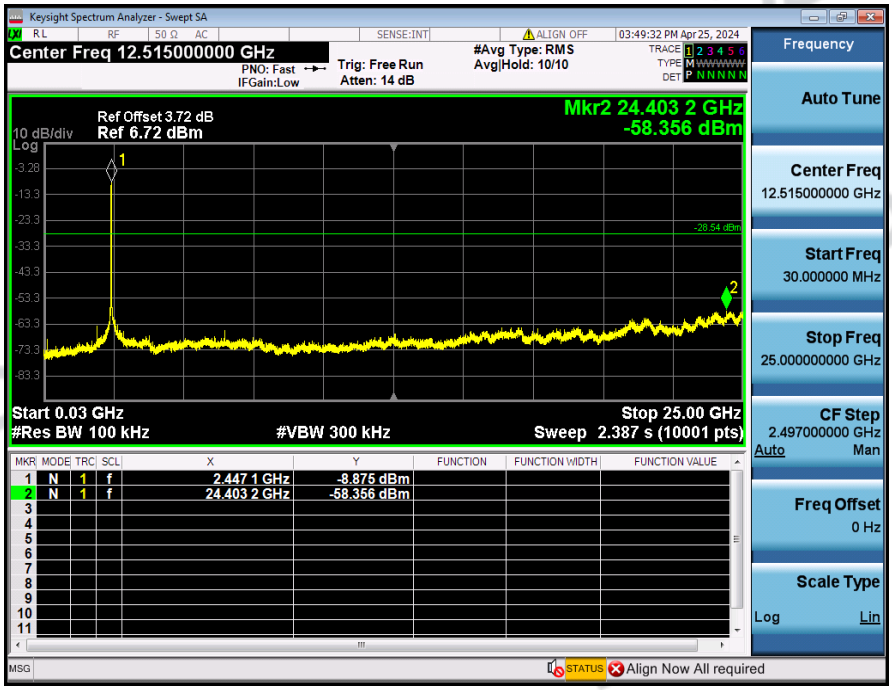

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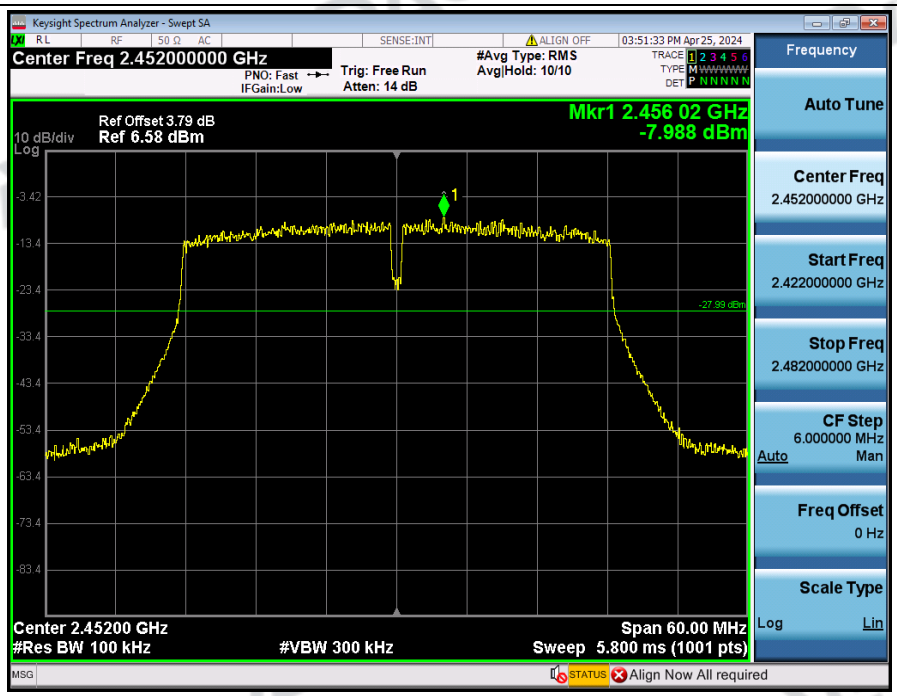
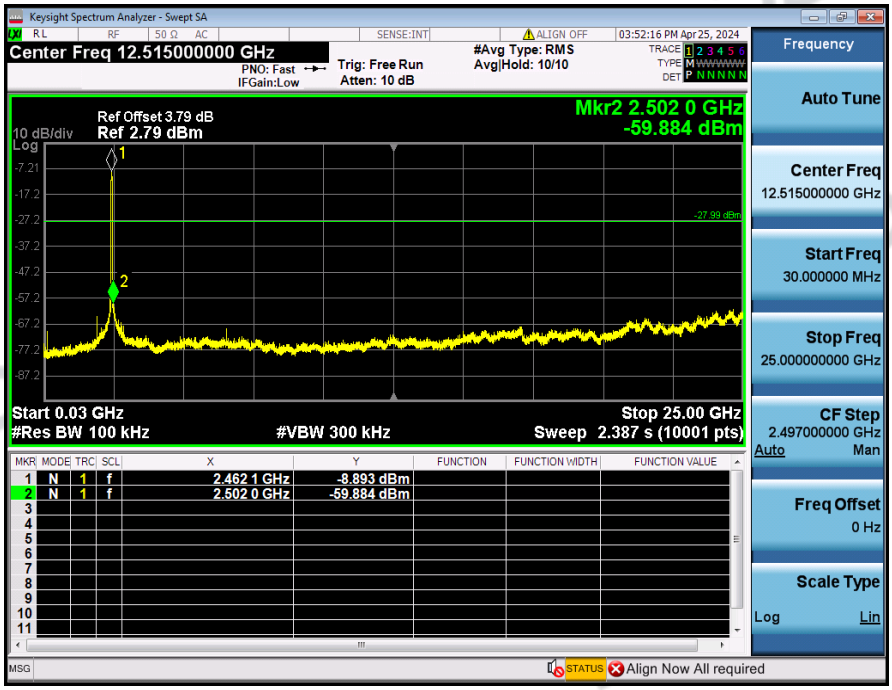


2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452



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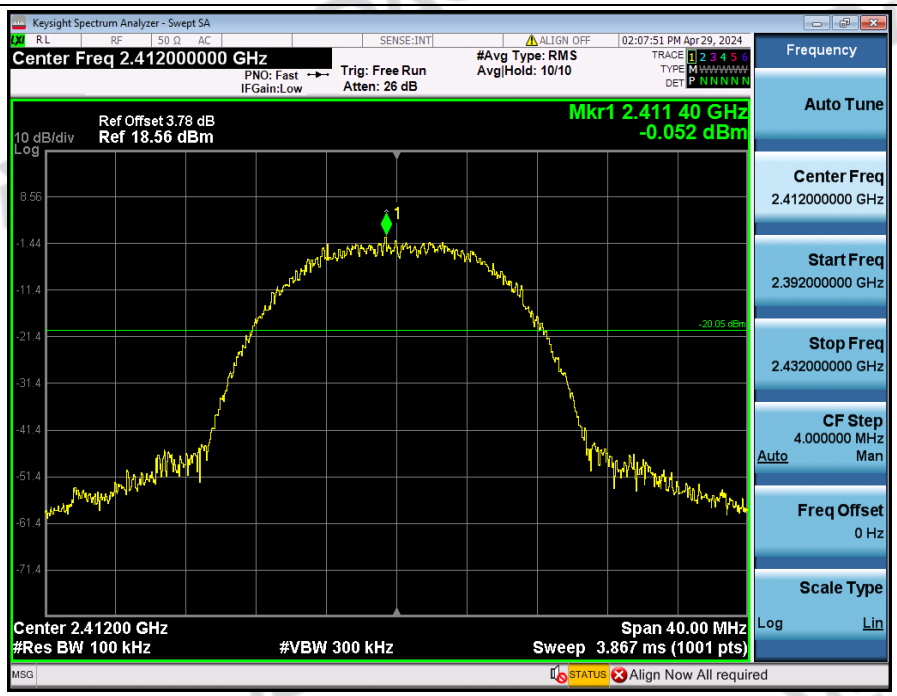

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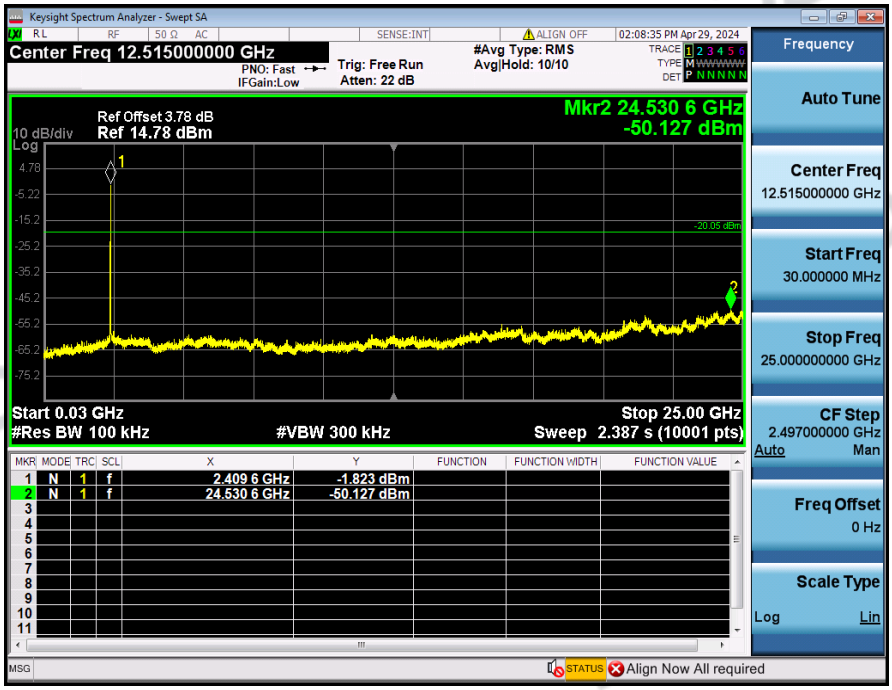

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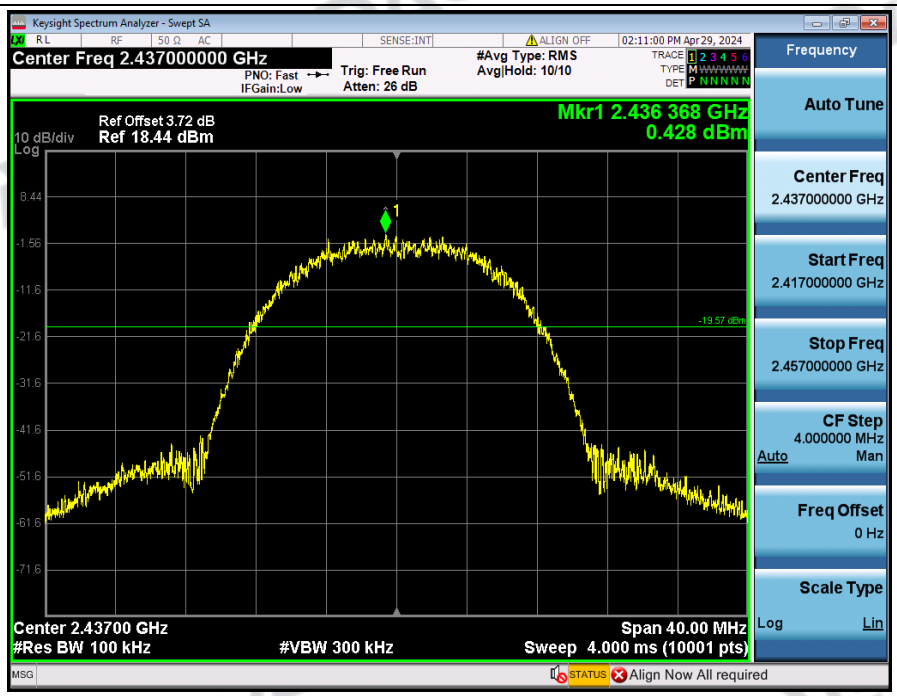

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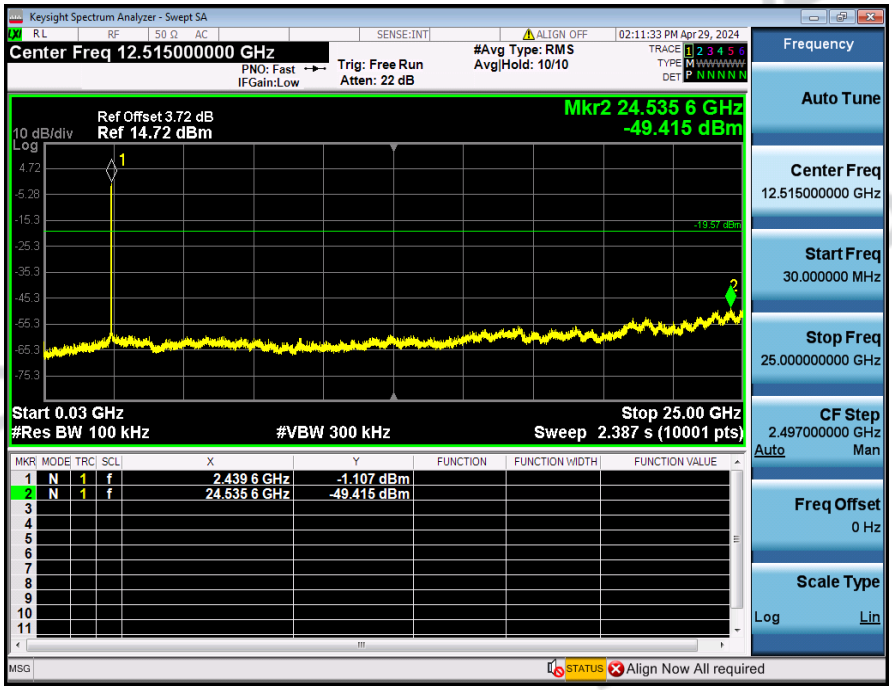

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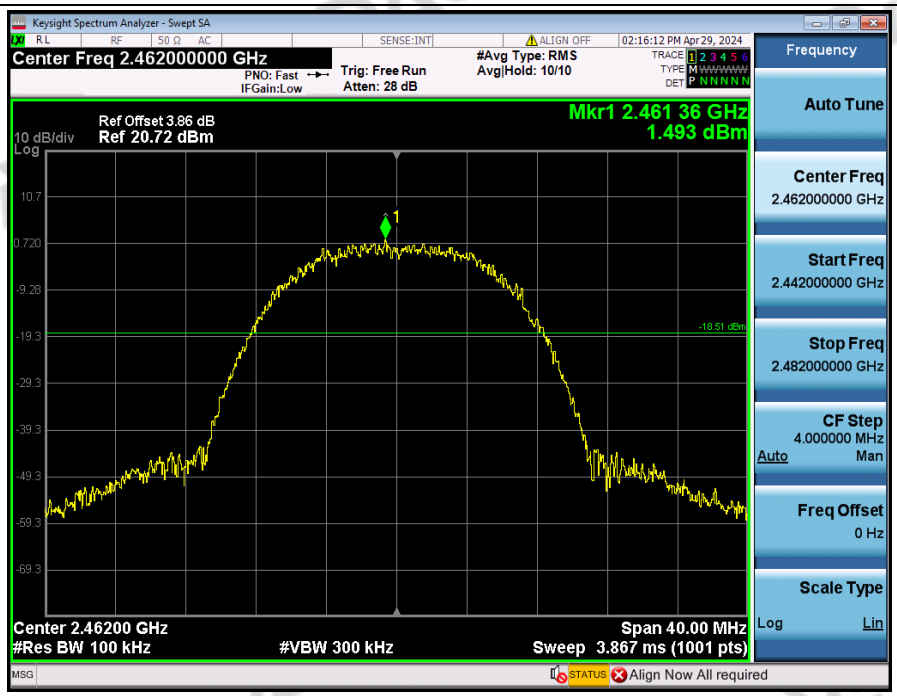

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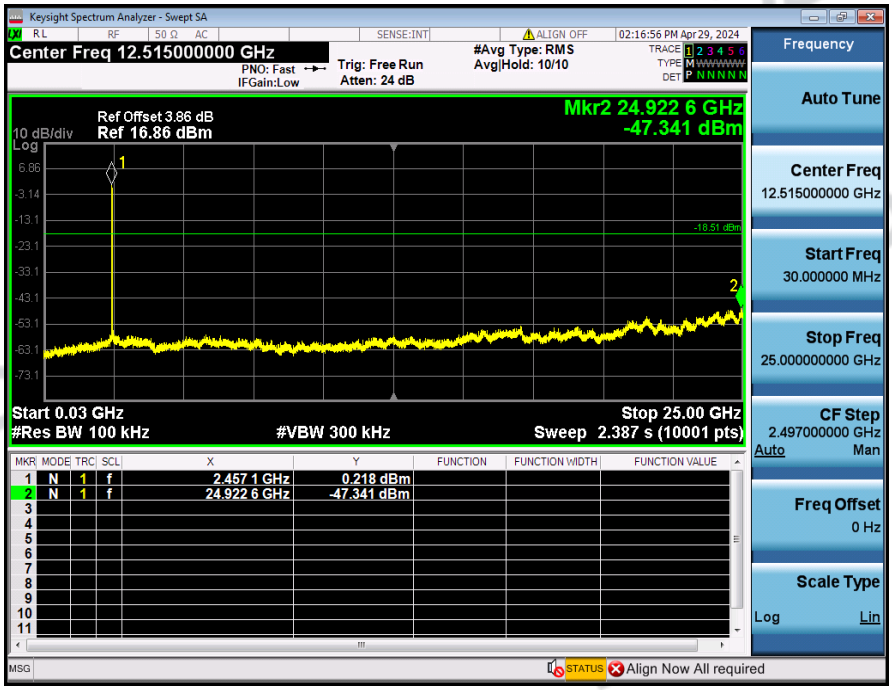

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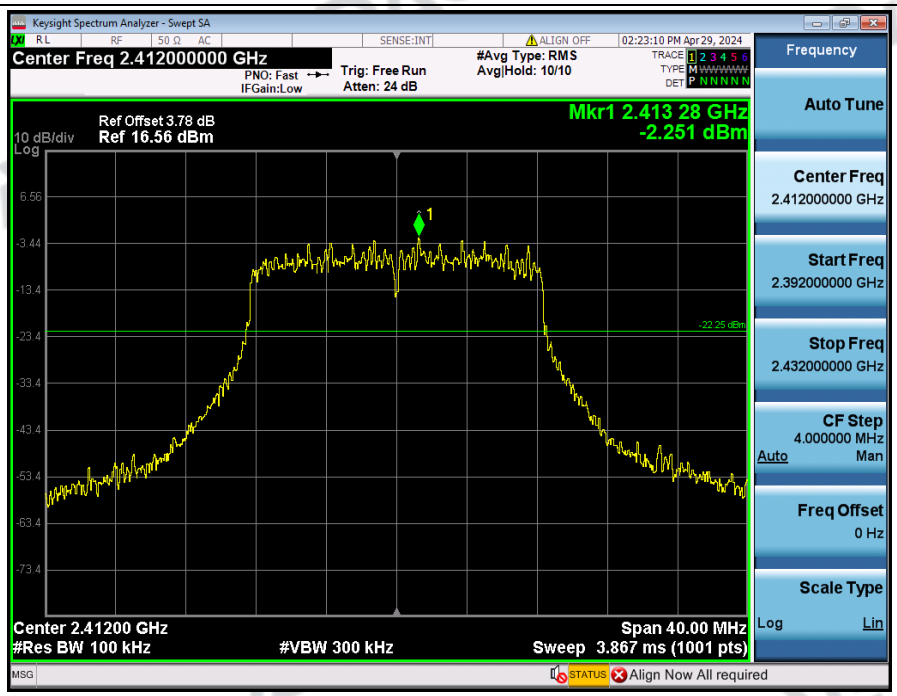

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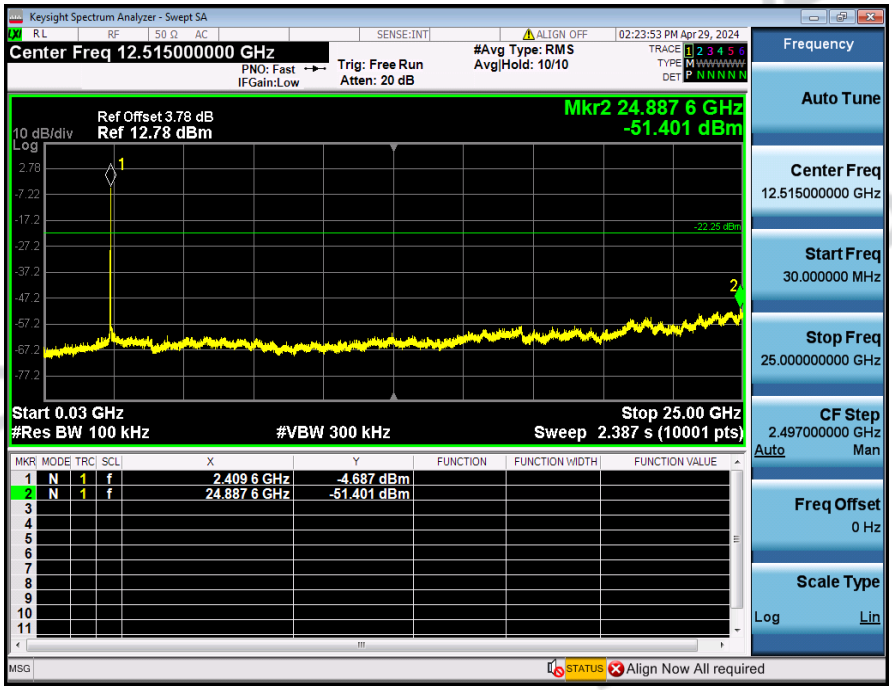

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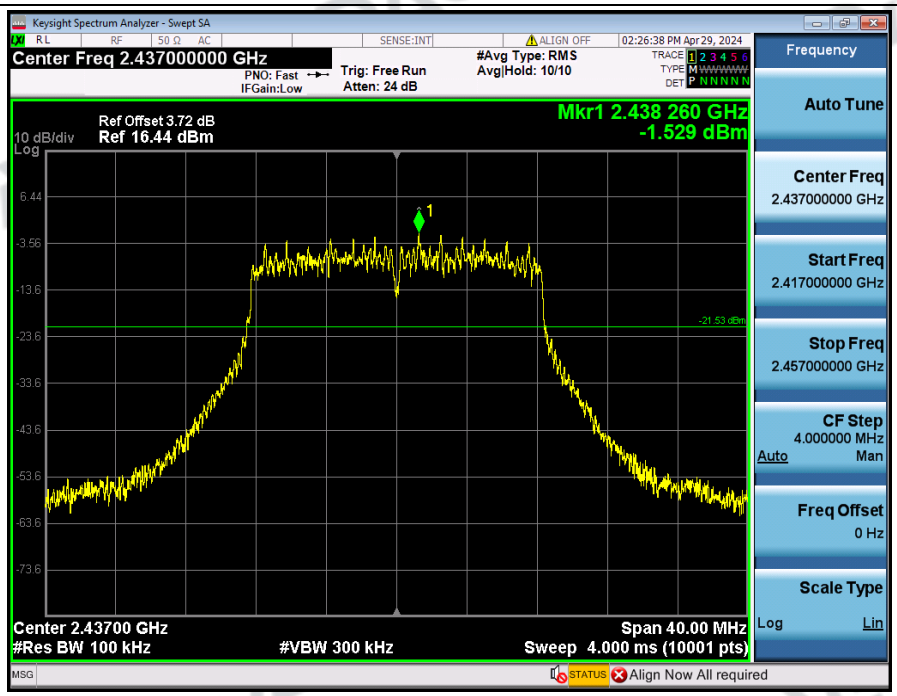

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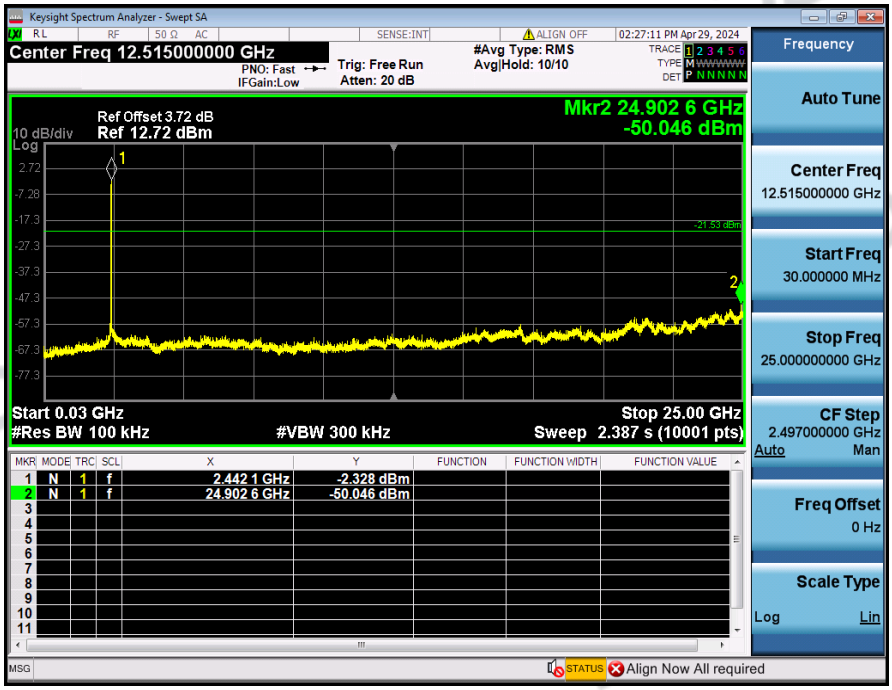

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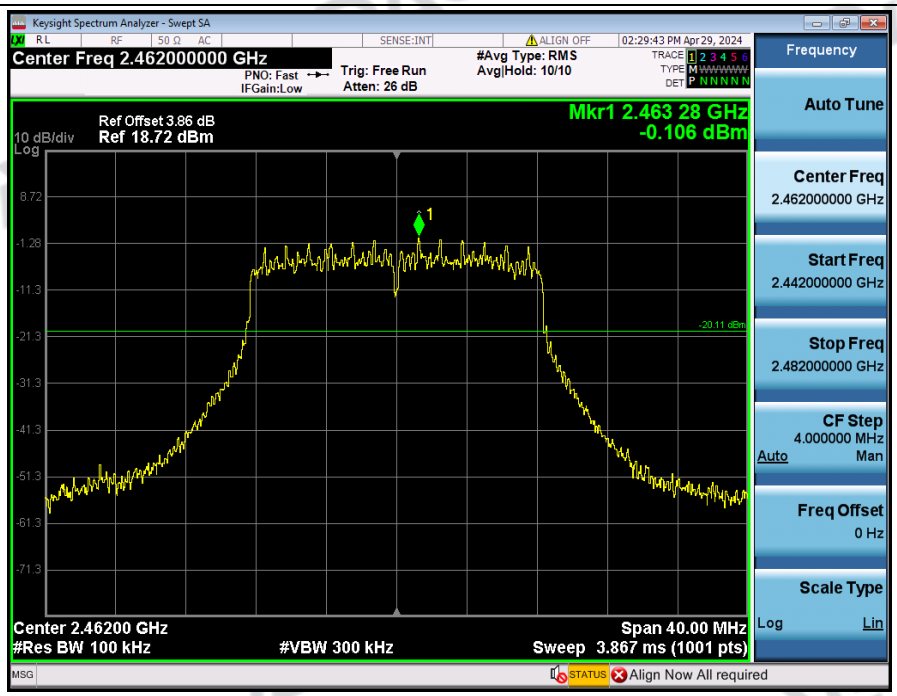

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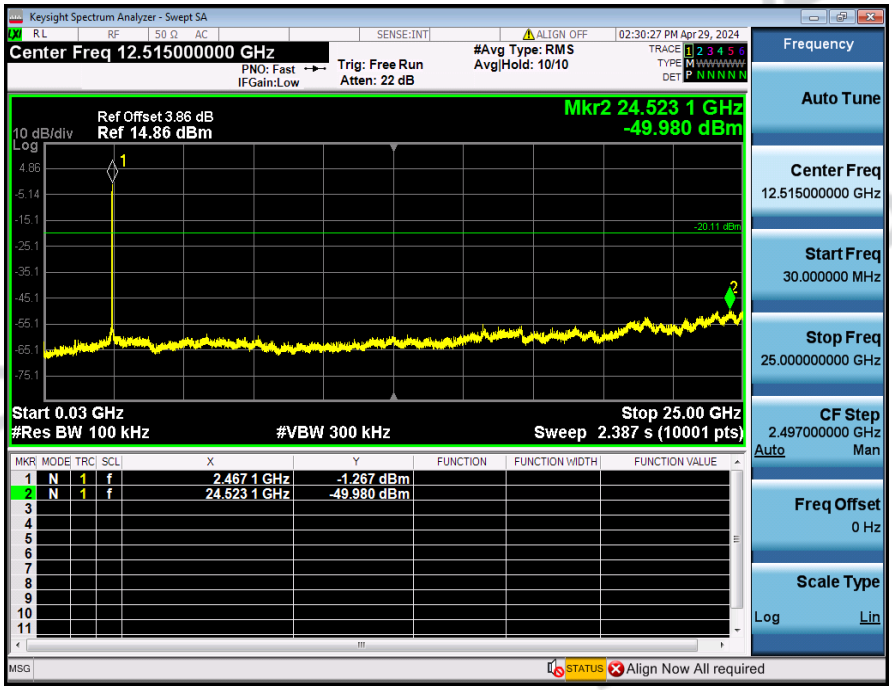
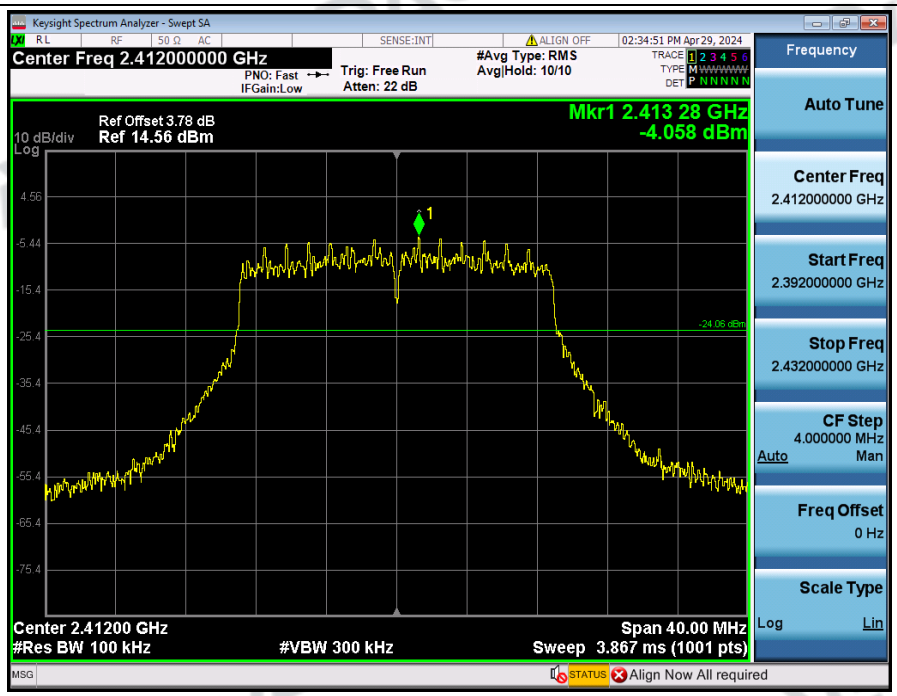


1_Reference_Level_NVNT_ANT2_802_11n(HT20)_2412



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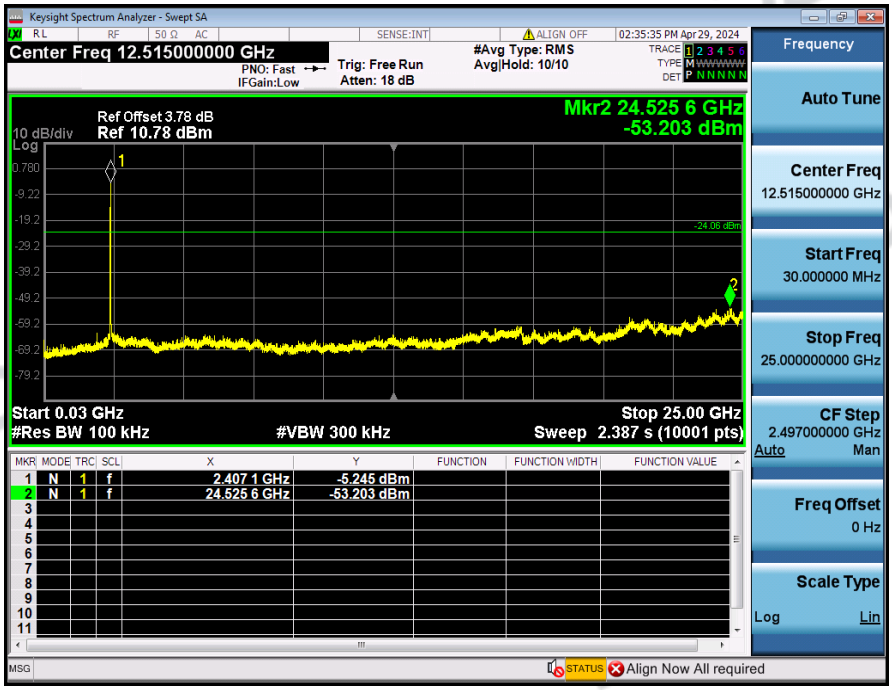

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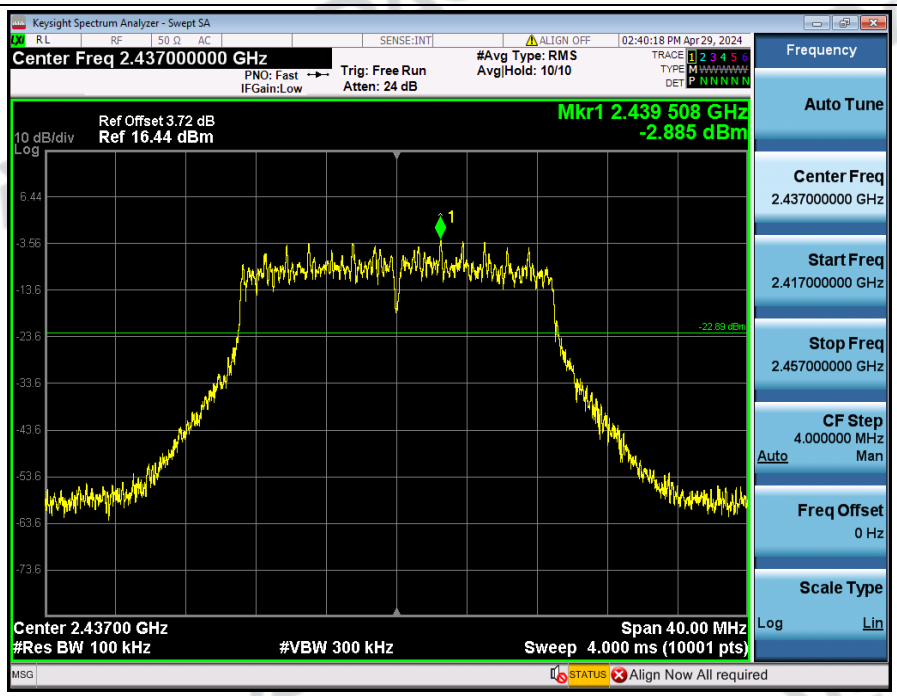

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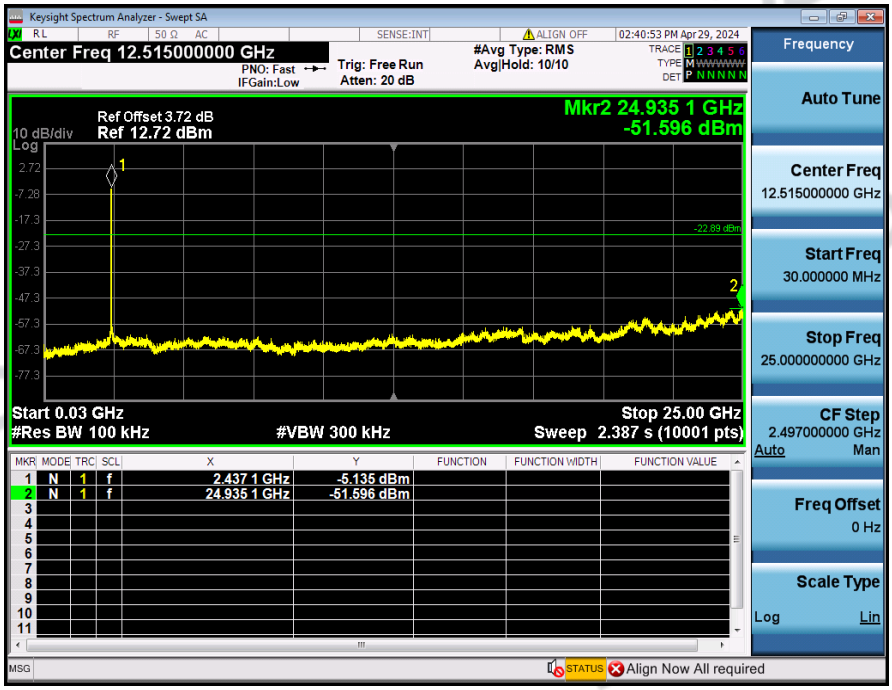

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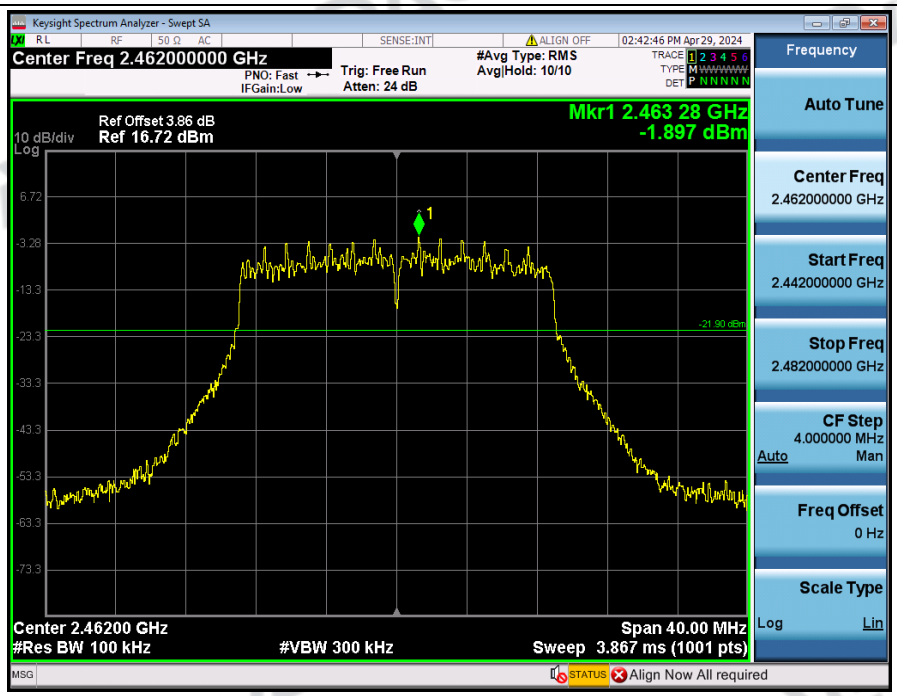

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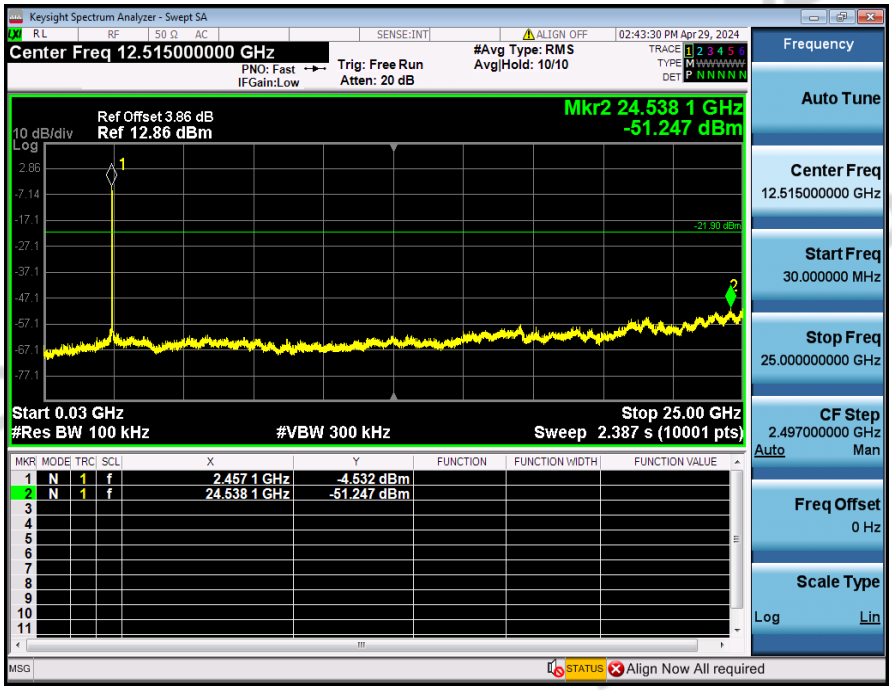

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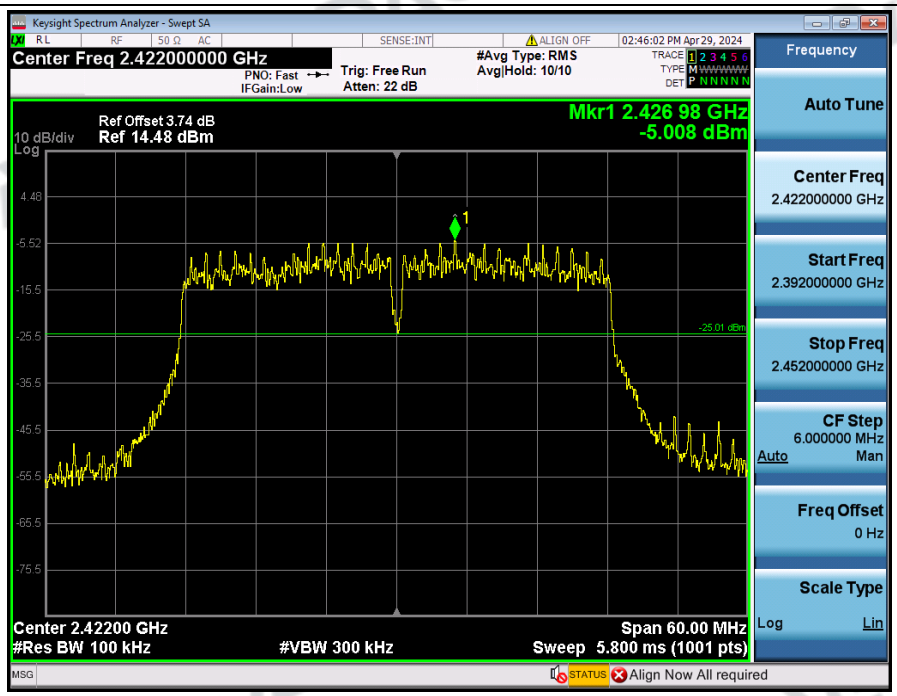

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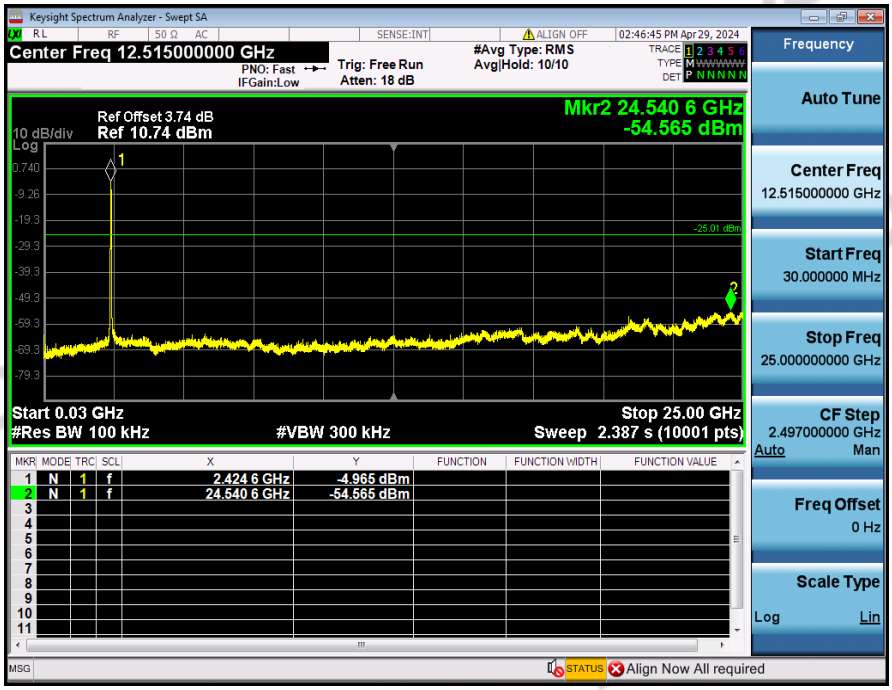

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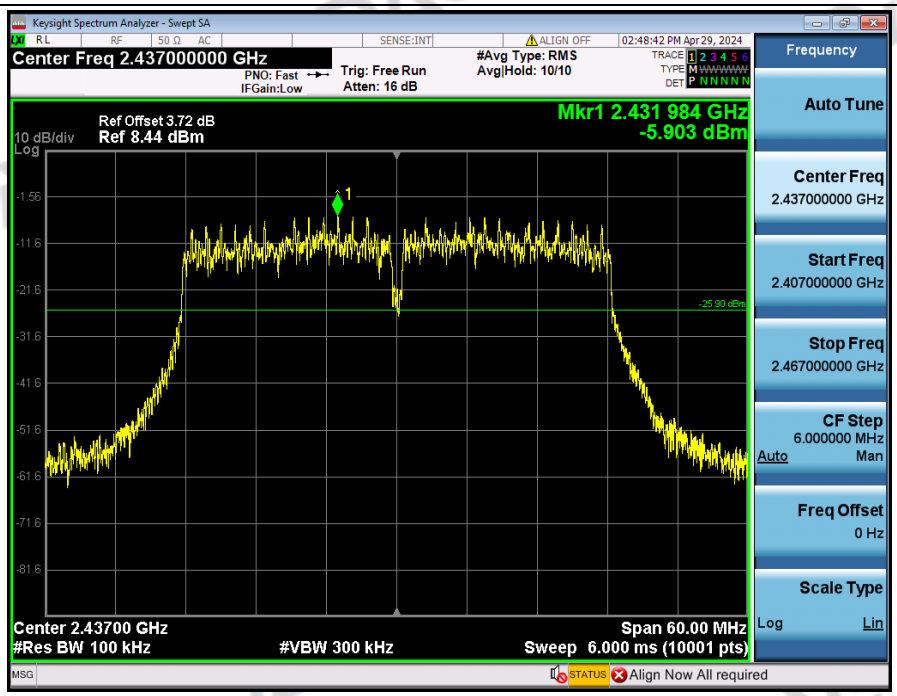

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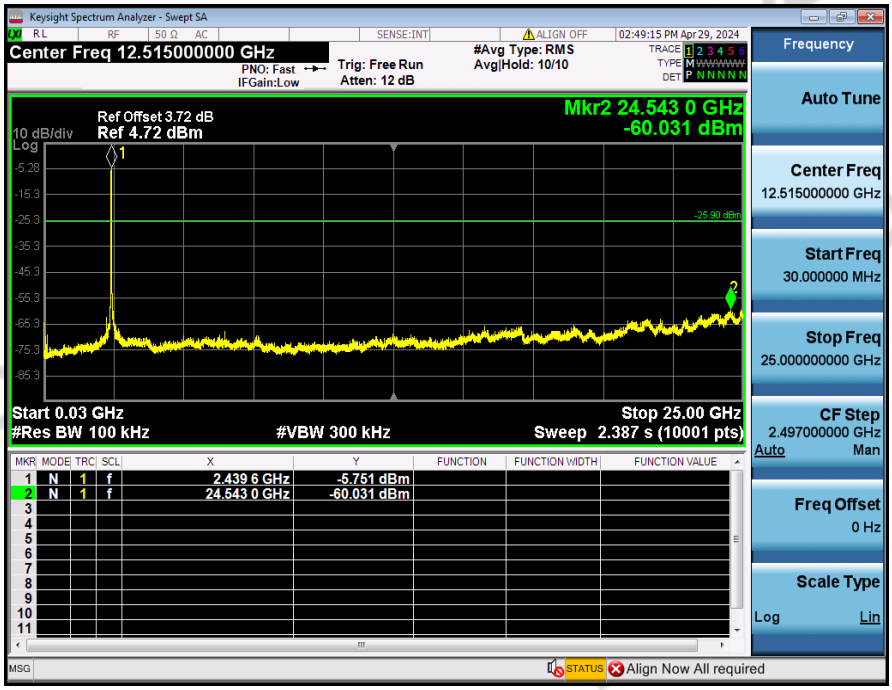
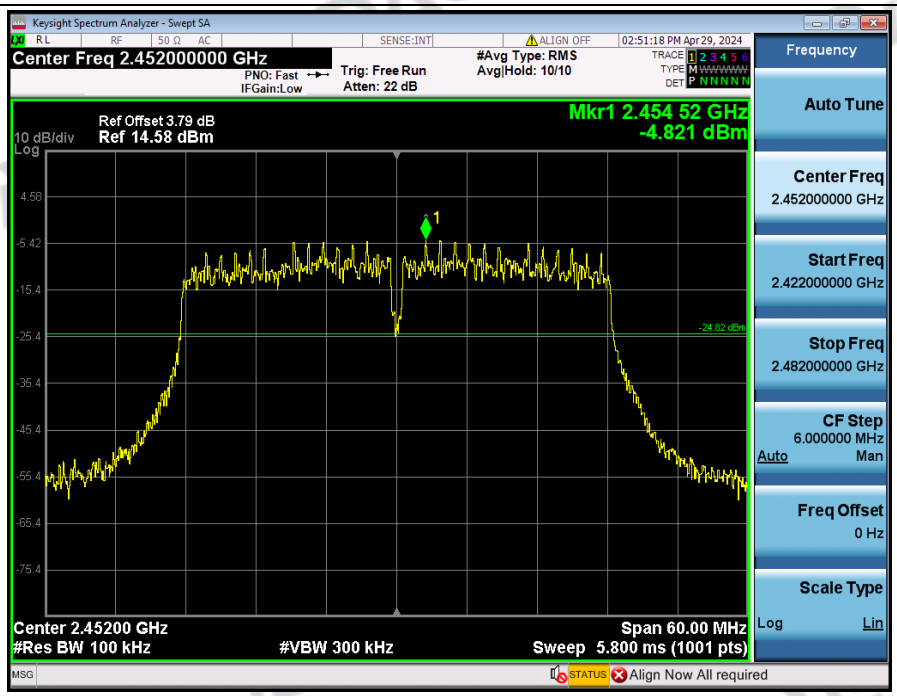
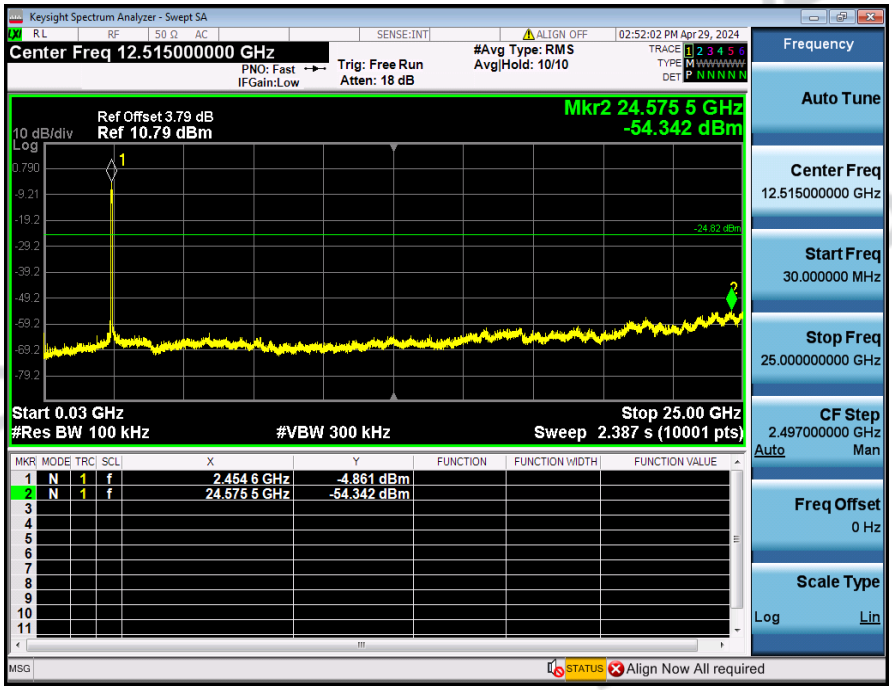


1_Reference_Level_NVNT_ANT2_802_11n(HT40)_2452



2_Spurious_Emission_NVNT_ANT2_802_11n(HT40)_2452



********** **End of Report** **********