

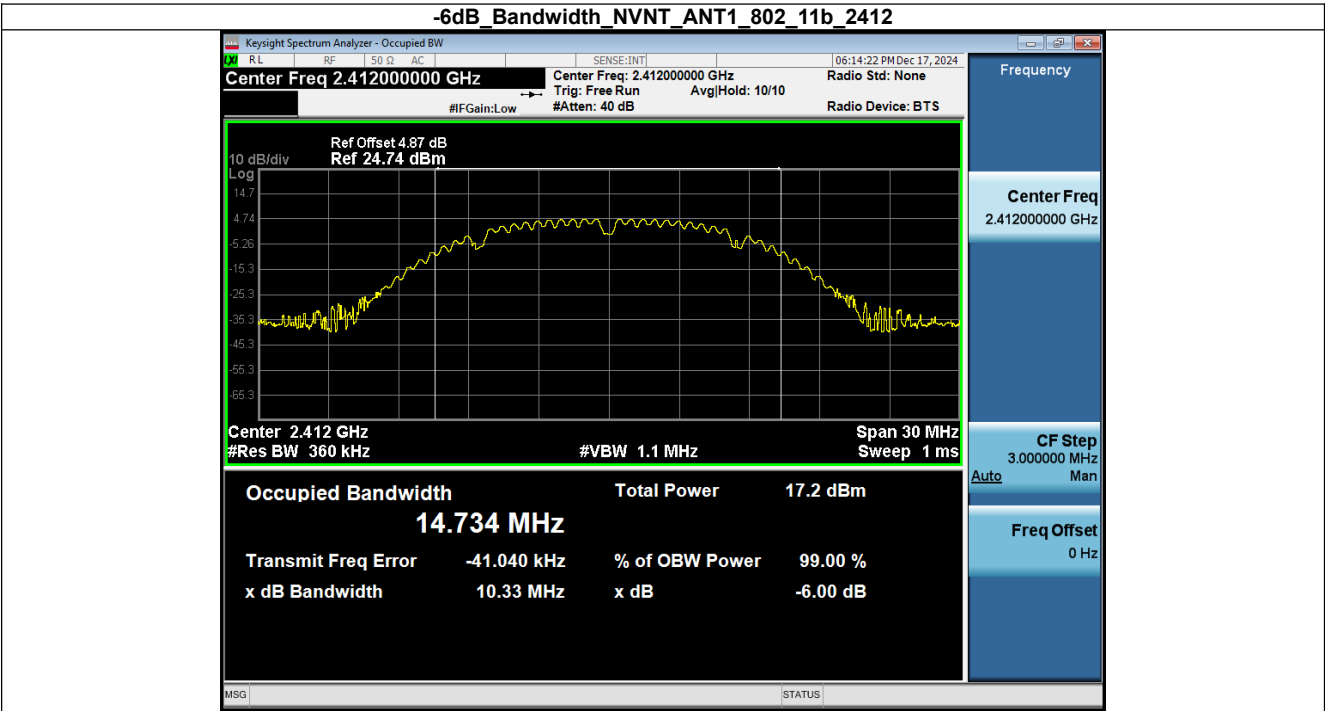
FCC_2.4G_WIFI (Part15.247) Test Data
FCC ID: 2BMCW-K1-800
Report No.:NCT240472436XE1-3

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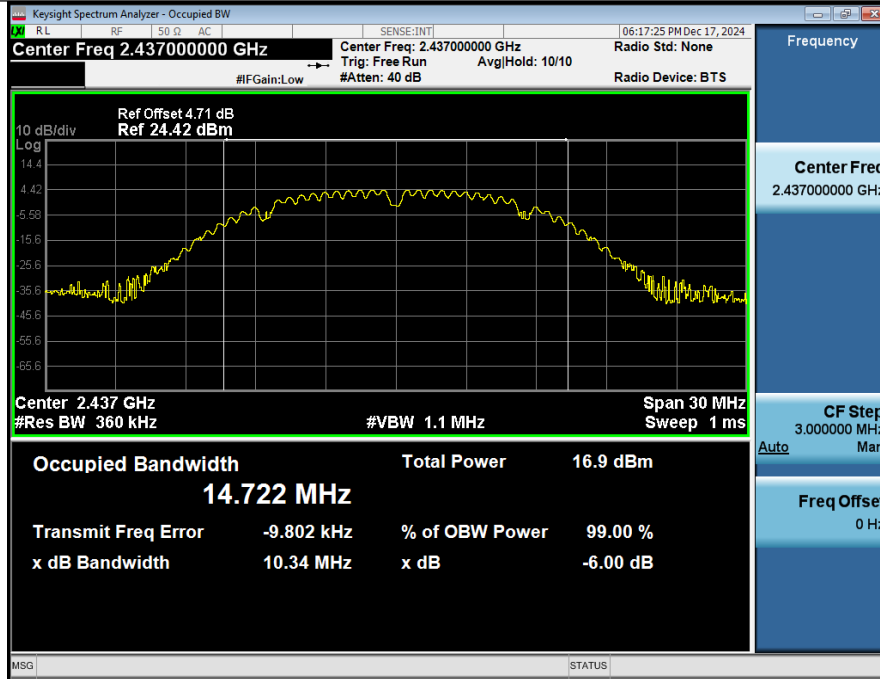
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1. -6dB Bandwidth

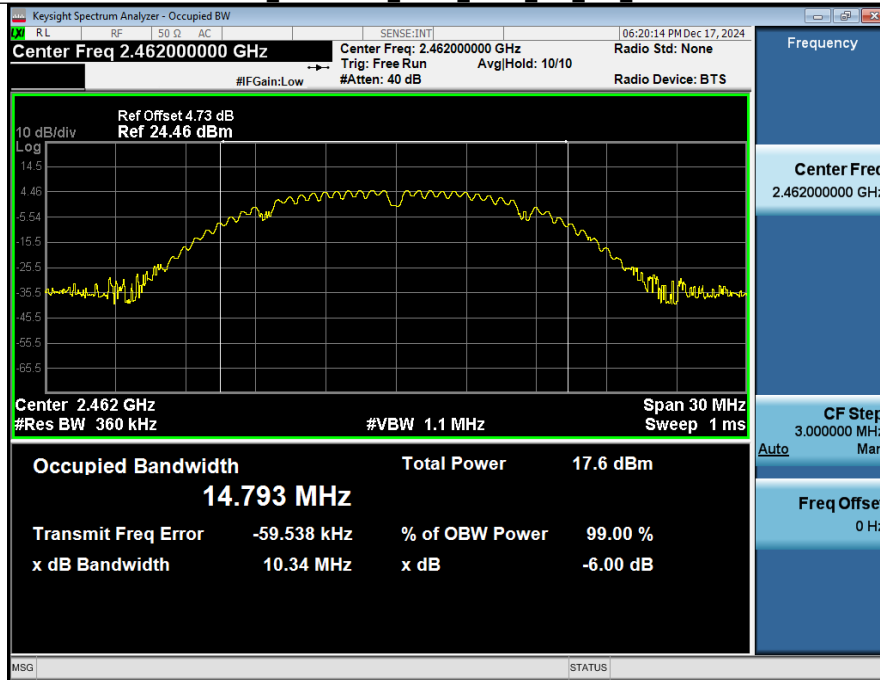
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.33	500	Pass
NVNT	ANT1	802.11b	2437.00	10.34	500	Pass
NVNT	ANT1	802.11b	2462.00	10.34	500	Pass
NVNT	ANT1	802.11g	2412.00	16.29	500	Pass
NVNT	ANT1	802.11g	2437.00	16.29	500	Pass
NVNT	ANT1	802.11g	2462.00	16.31	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.58	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.60	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.63	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.41	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.34	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.35	500	Pass



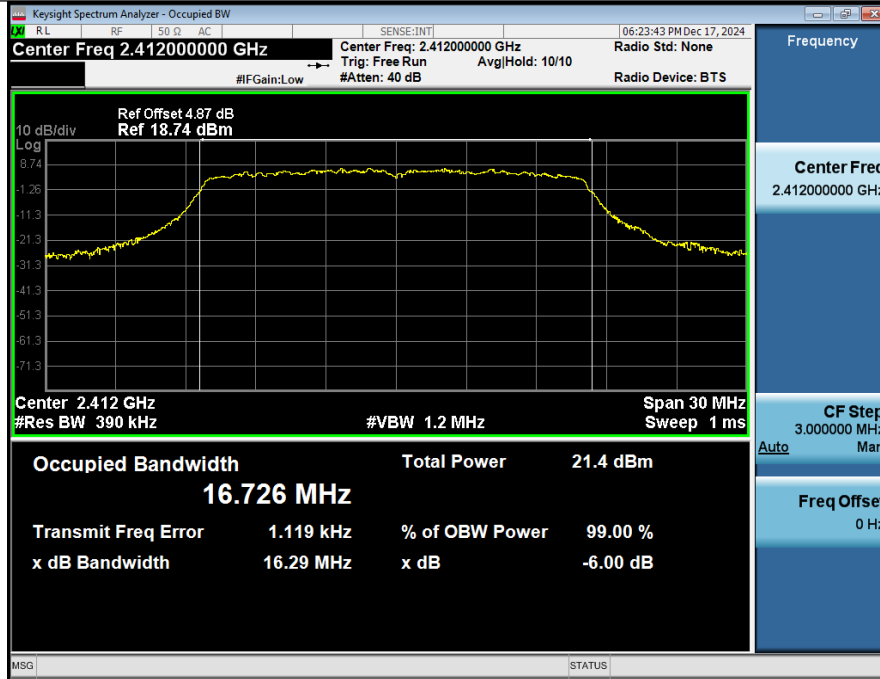
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



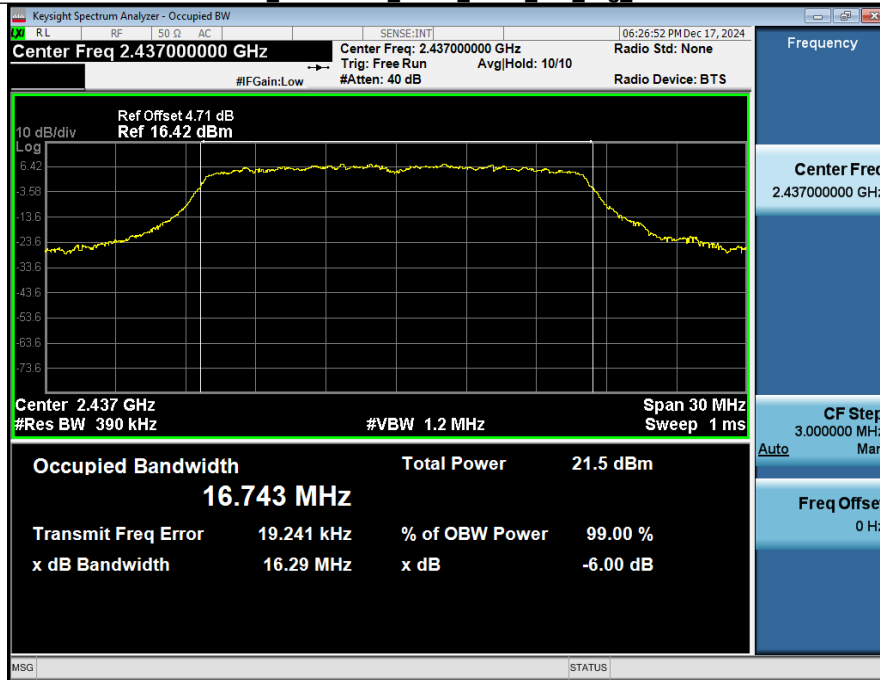
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



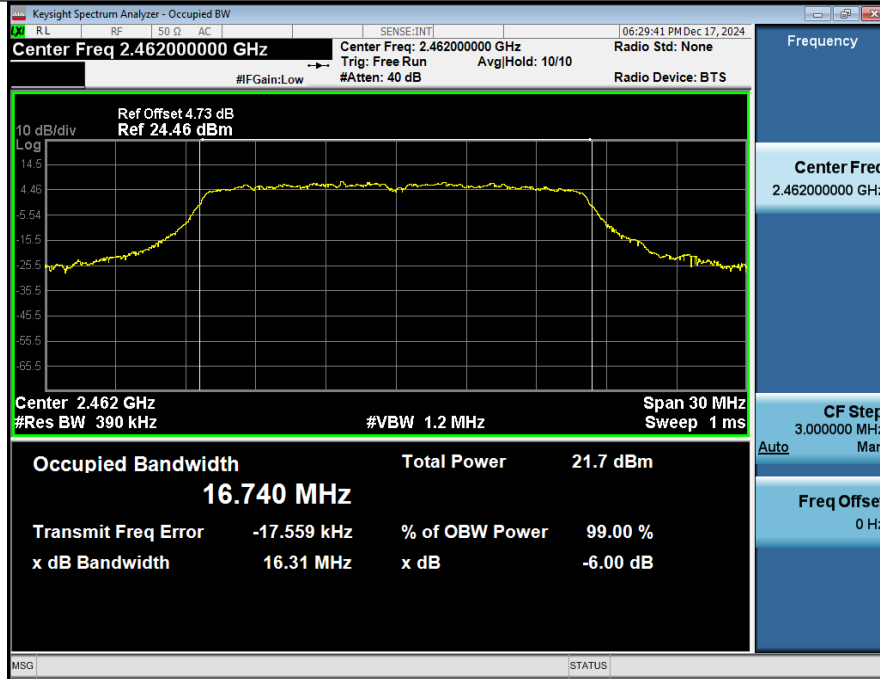
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



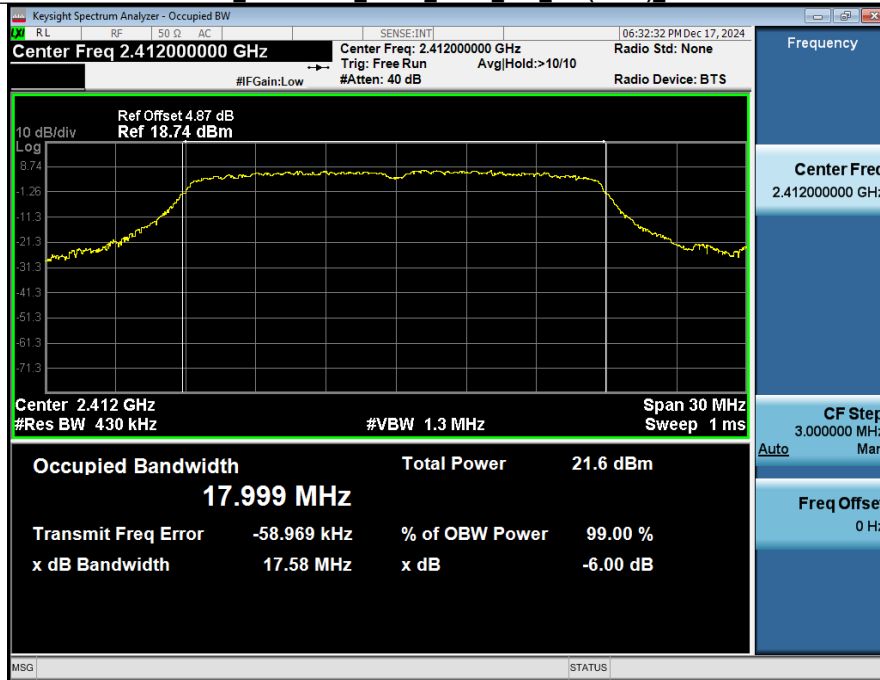
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



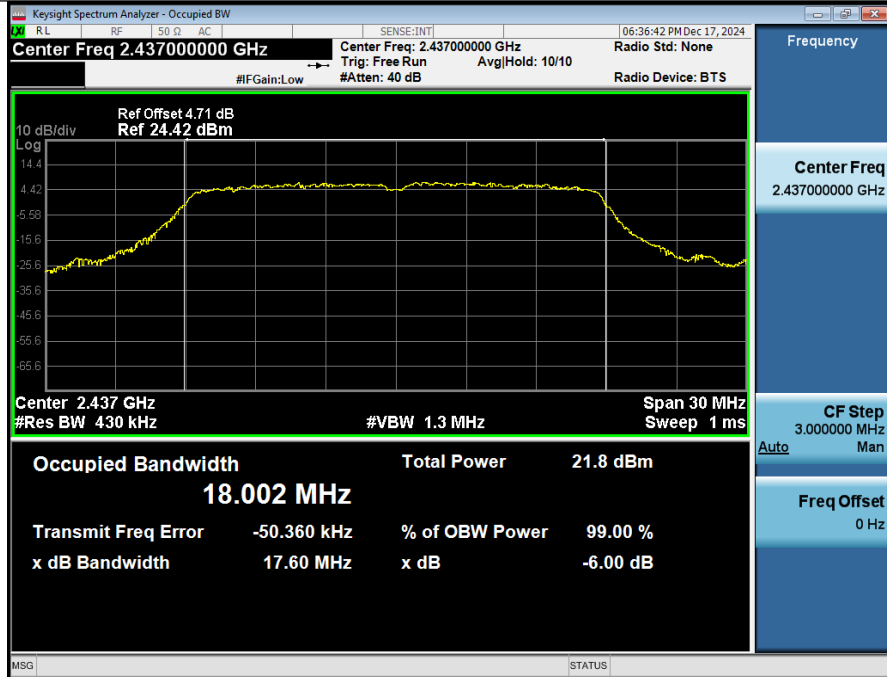
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



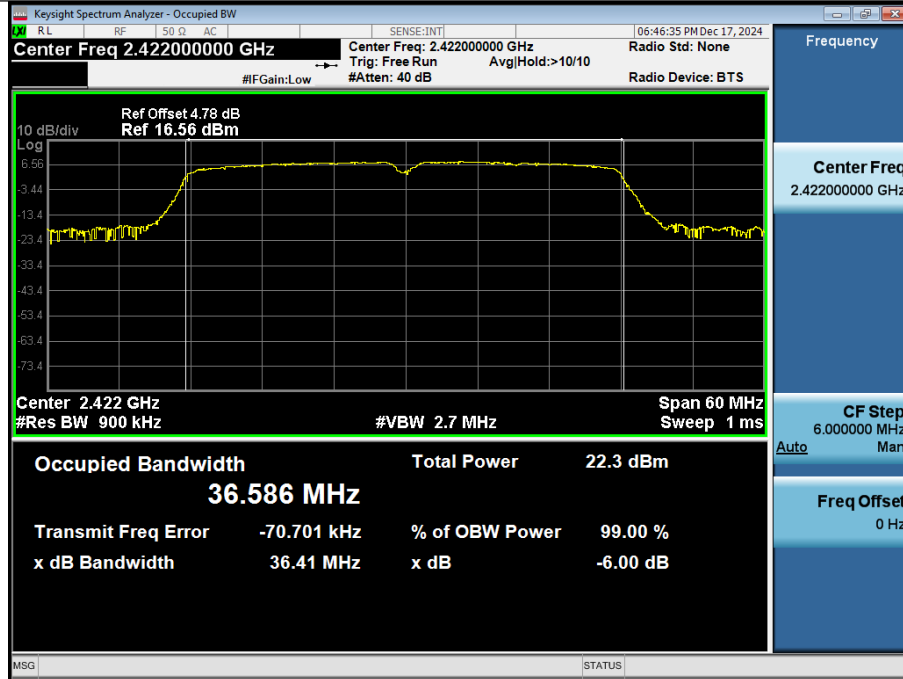
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



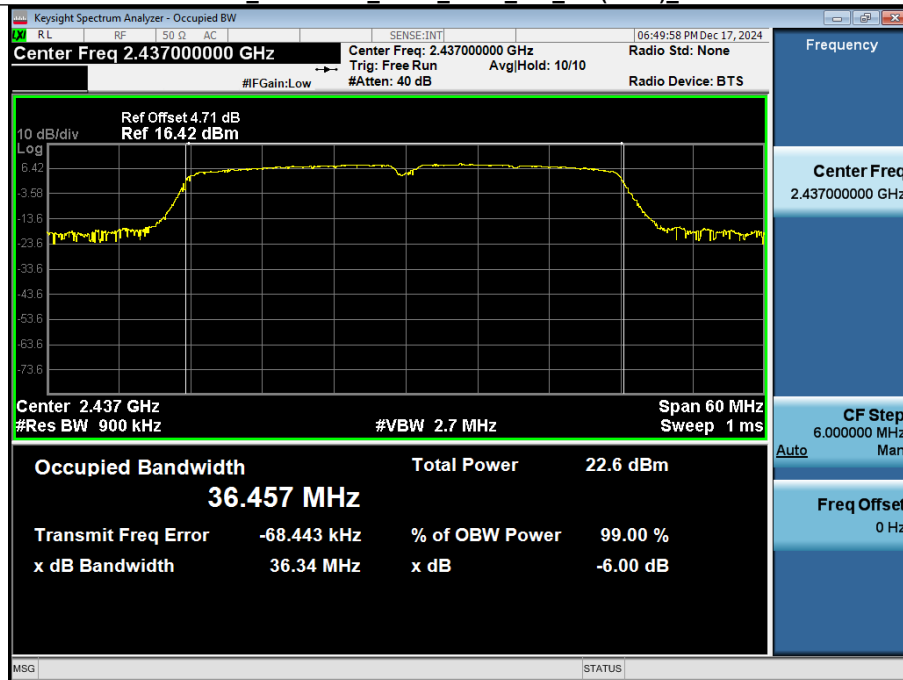
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



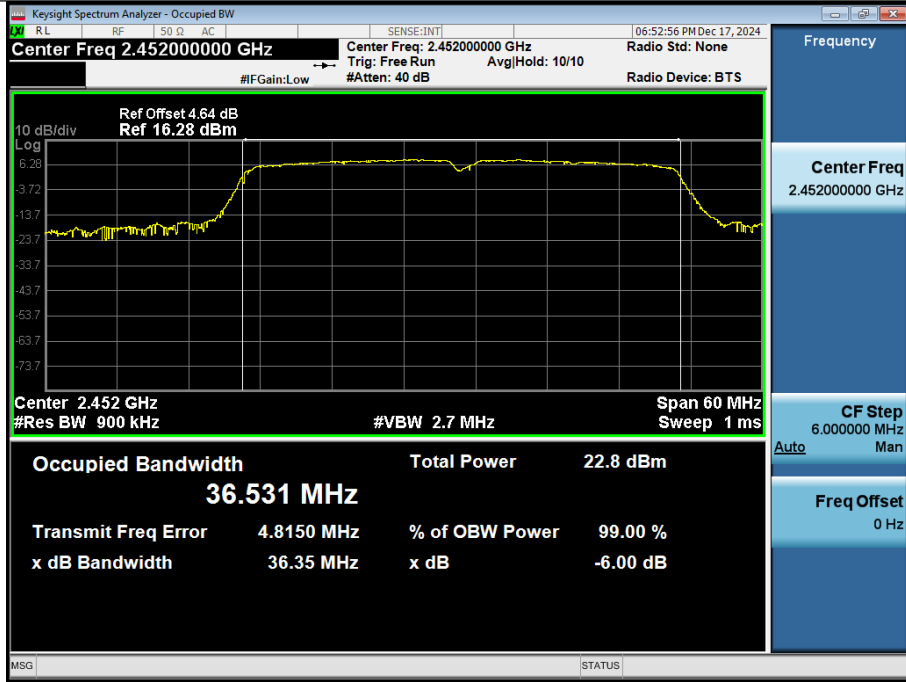
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

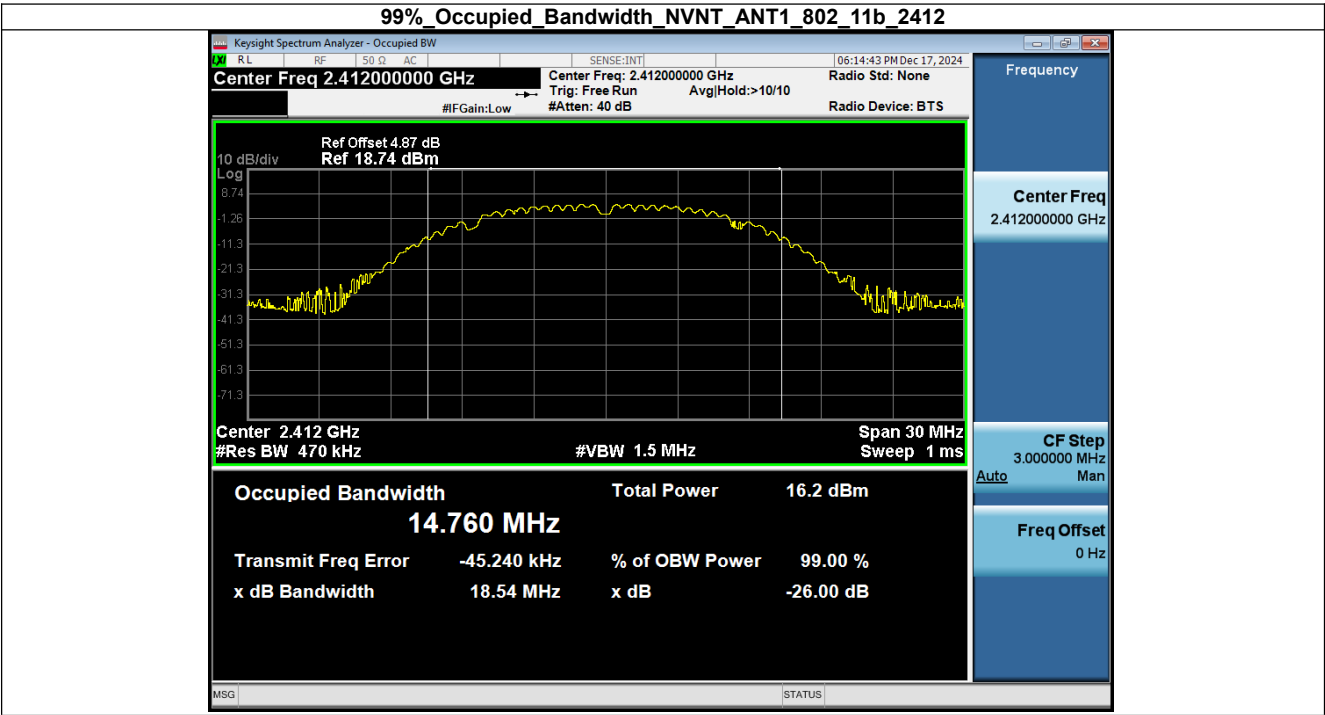


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

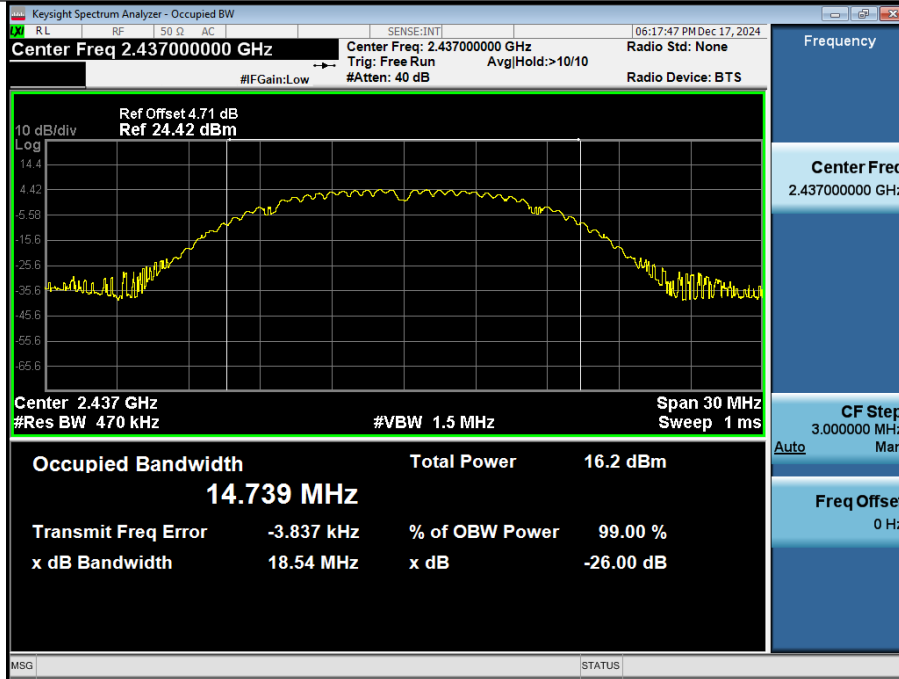


2. 99% Occupied Bandwidth

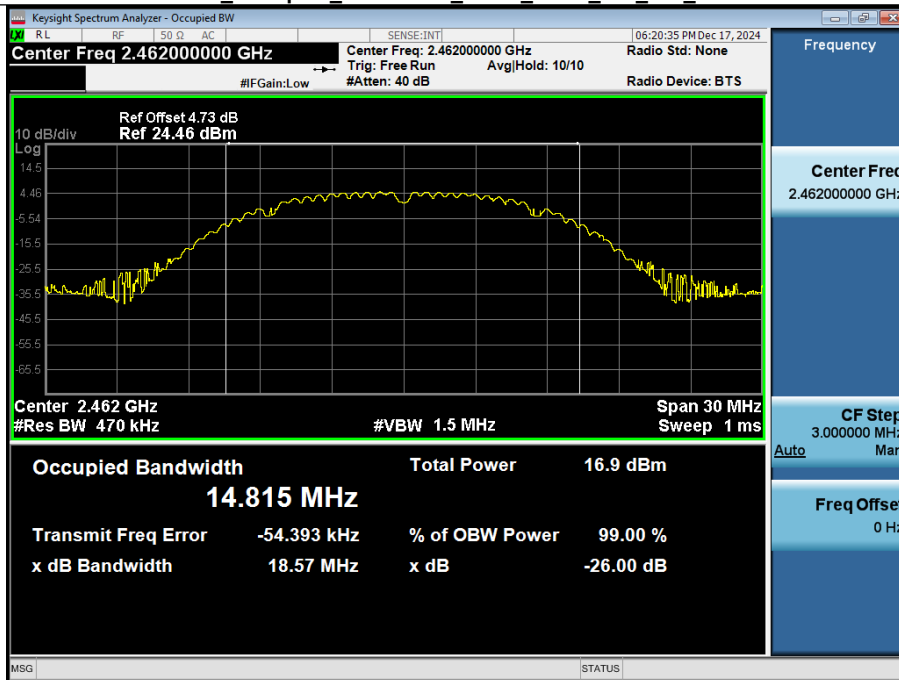
Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	14.760
NVNT	ANT1	802.11b	2437.00	14.739
NVNT	ANT1	802.11b	2462.00	14.815
NVNT	ANT1	802.11g	2412.00	16.907
NVNT	ANT1	802.11g	2437.00	16.936
NVNT	ANT1	802.11g	2462.00	16.943
NVNT	ANT1	802.11n(HT20)	2412.00	18.179
NVNT	ANT1	802.11n(HT20)	2437.00	18.153
NVNT	ANT1	802.11n(HT20)	2462.00	18.217
NVNT	ANT1	802.11n(HT40)	2422.00	36.578
NVNT	ANT1	802.11n(HT40)	2437.00	36.539
NVNT	ANT1	802.11n(HT40)	2452.00	36.512



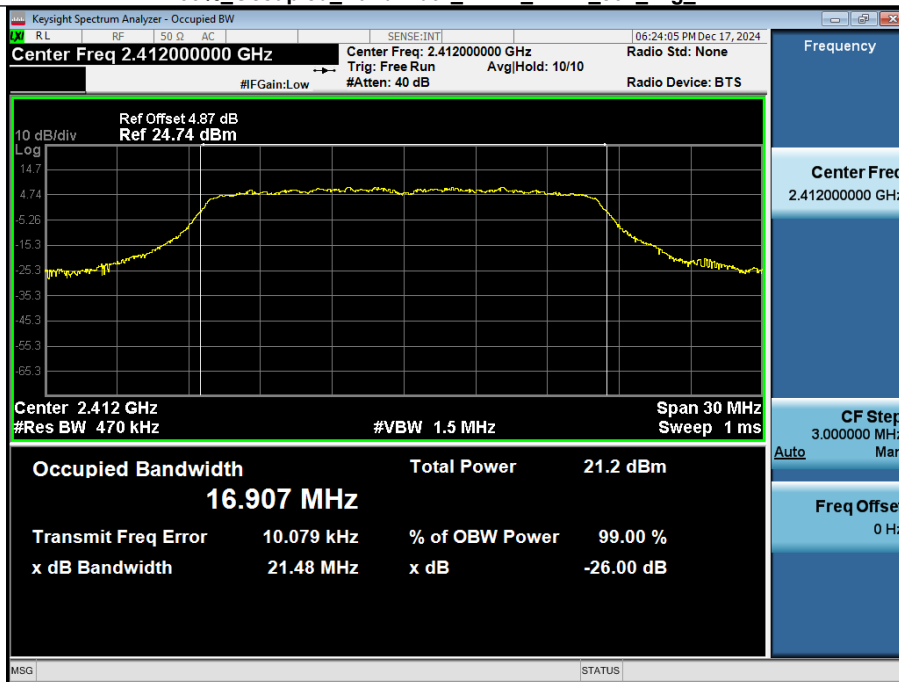
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



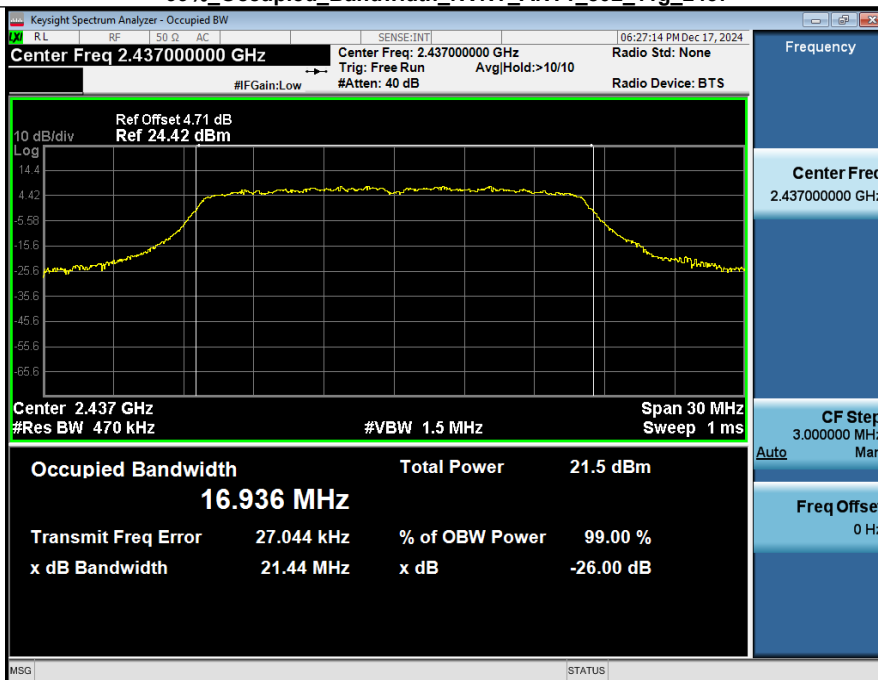
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



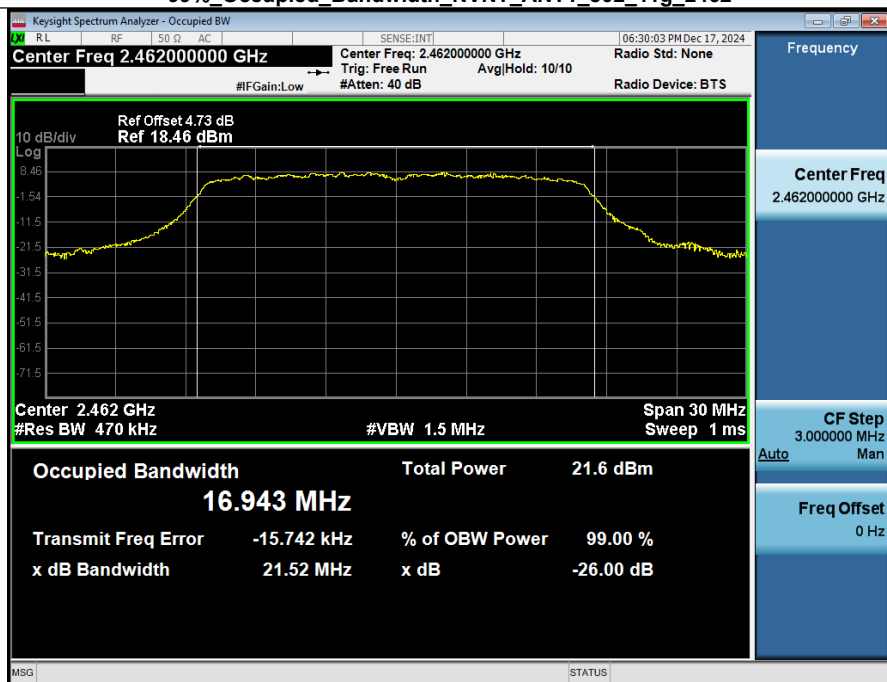
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



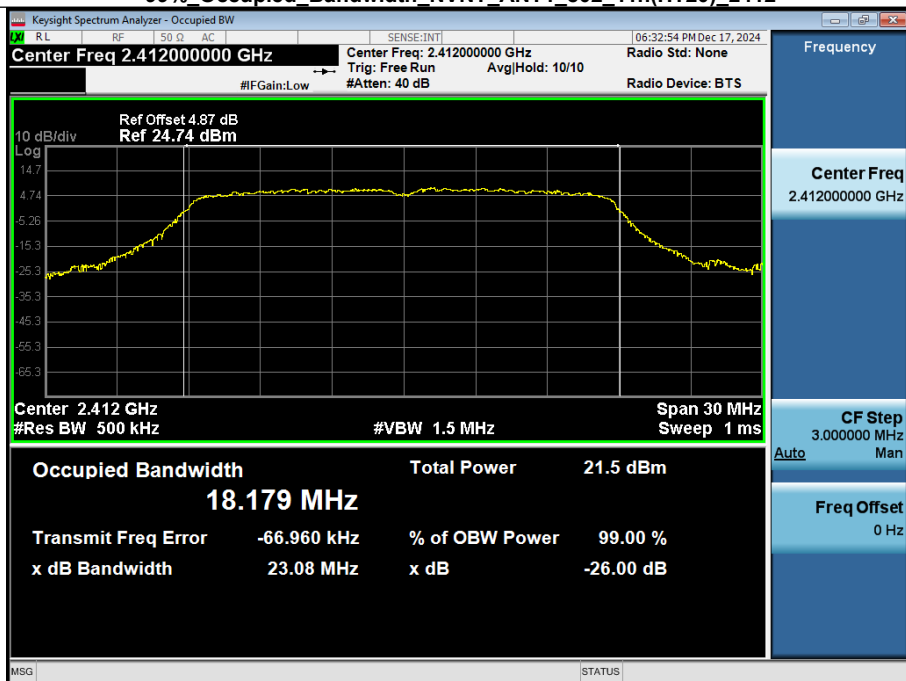
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437

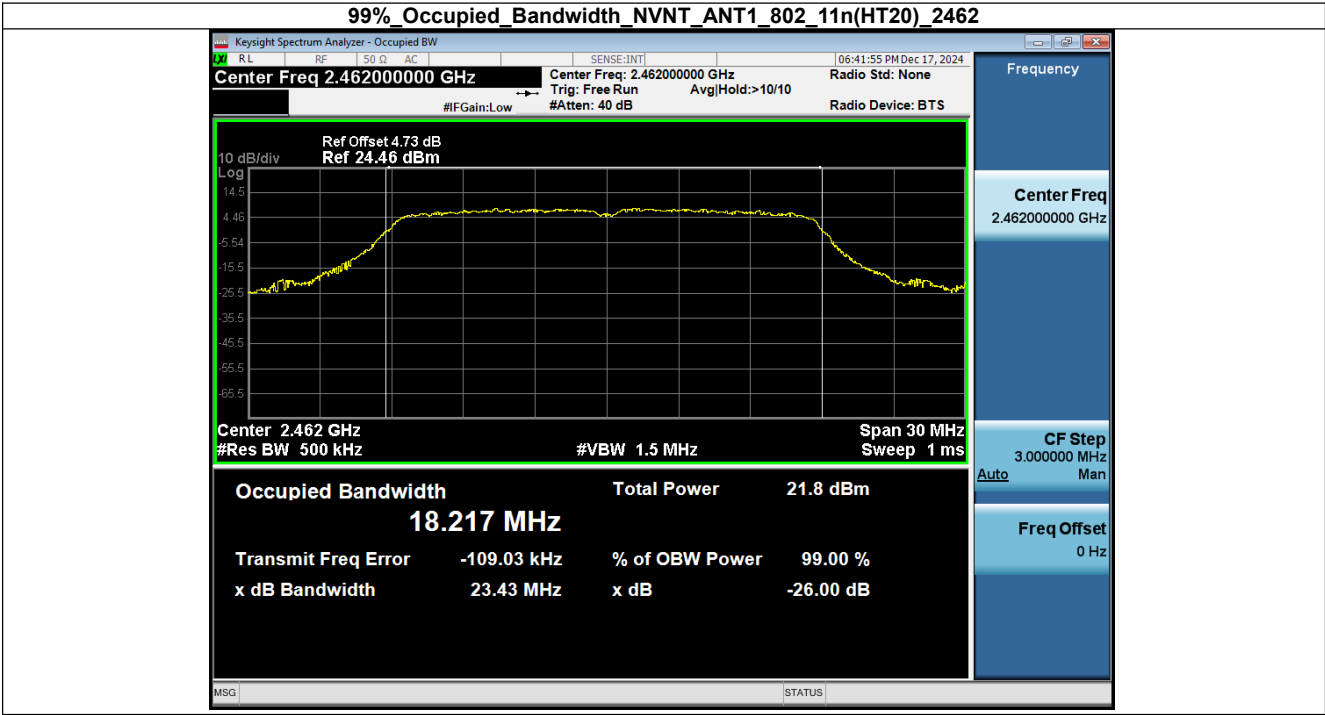
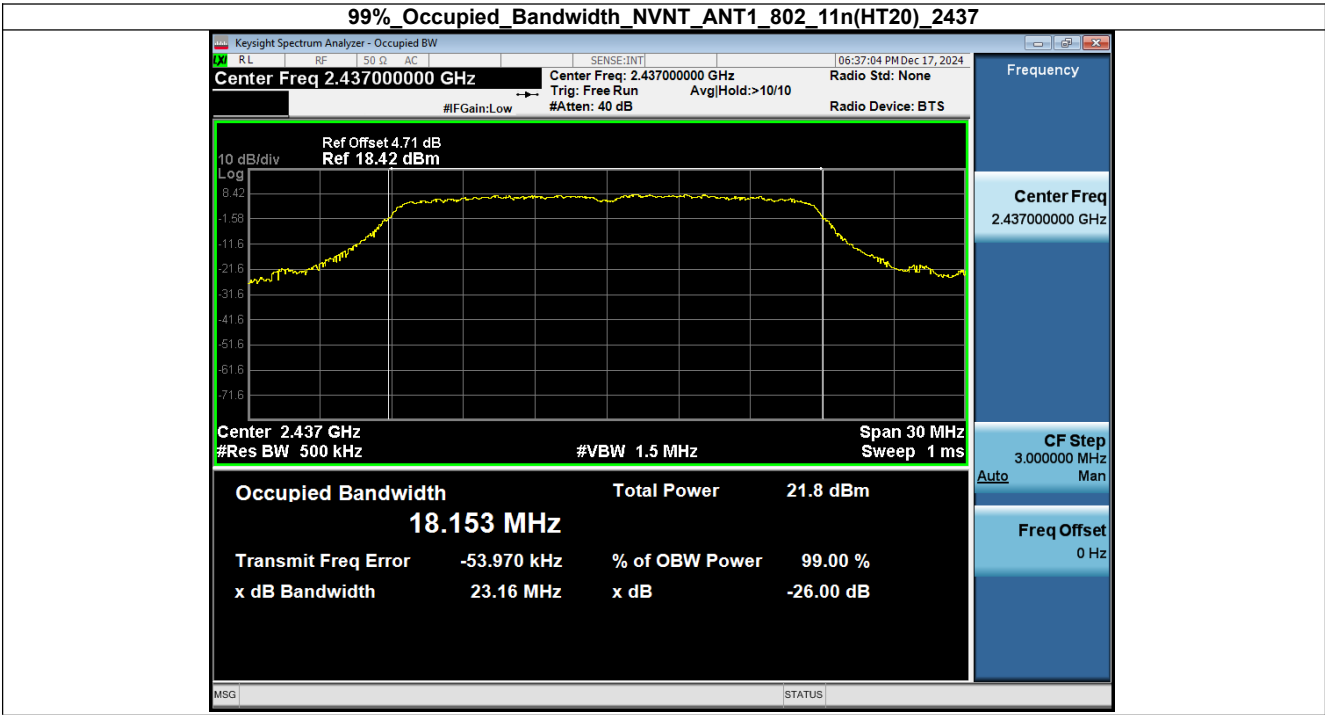


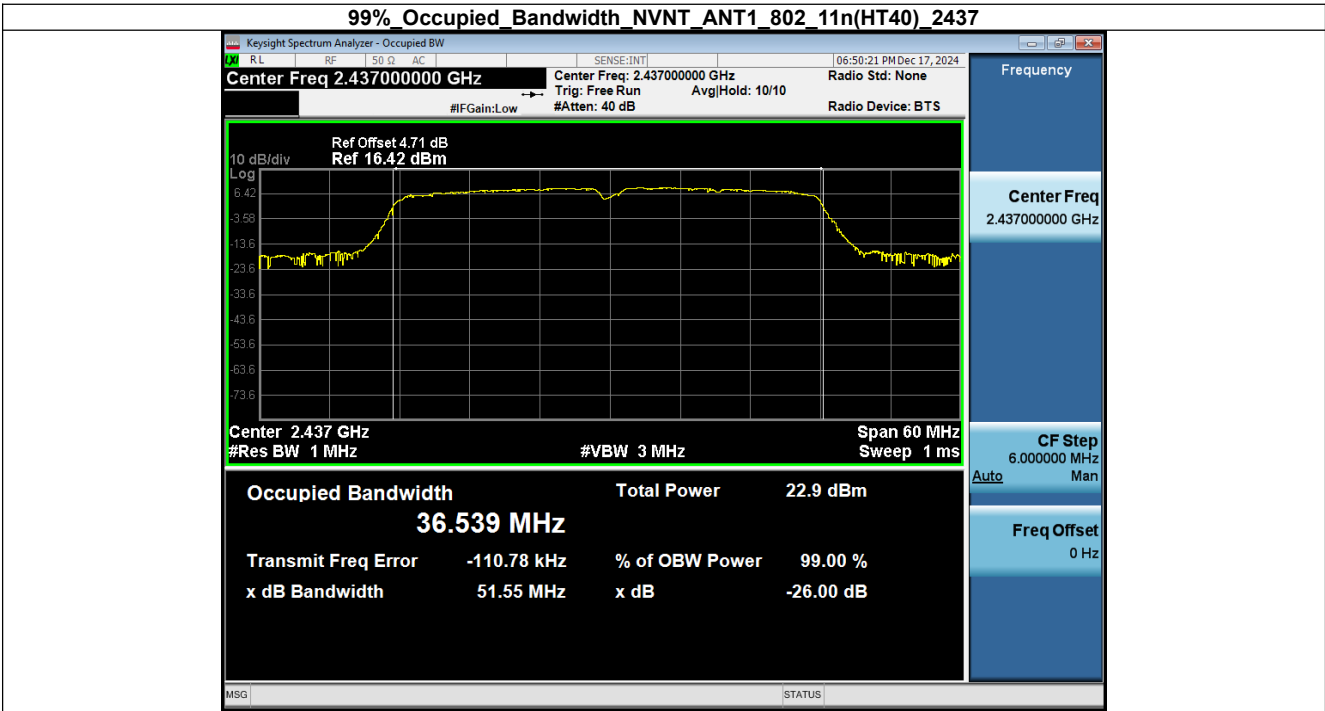
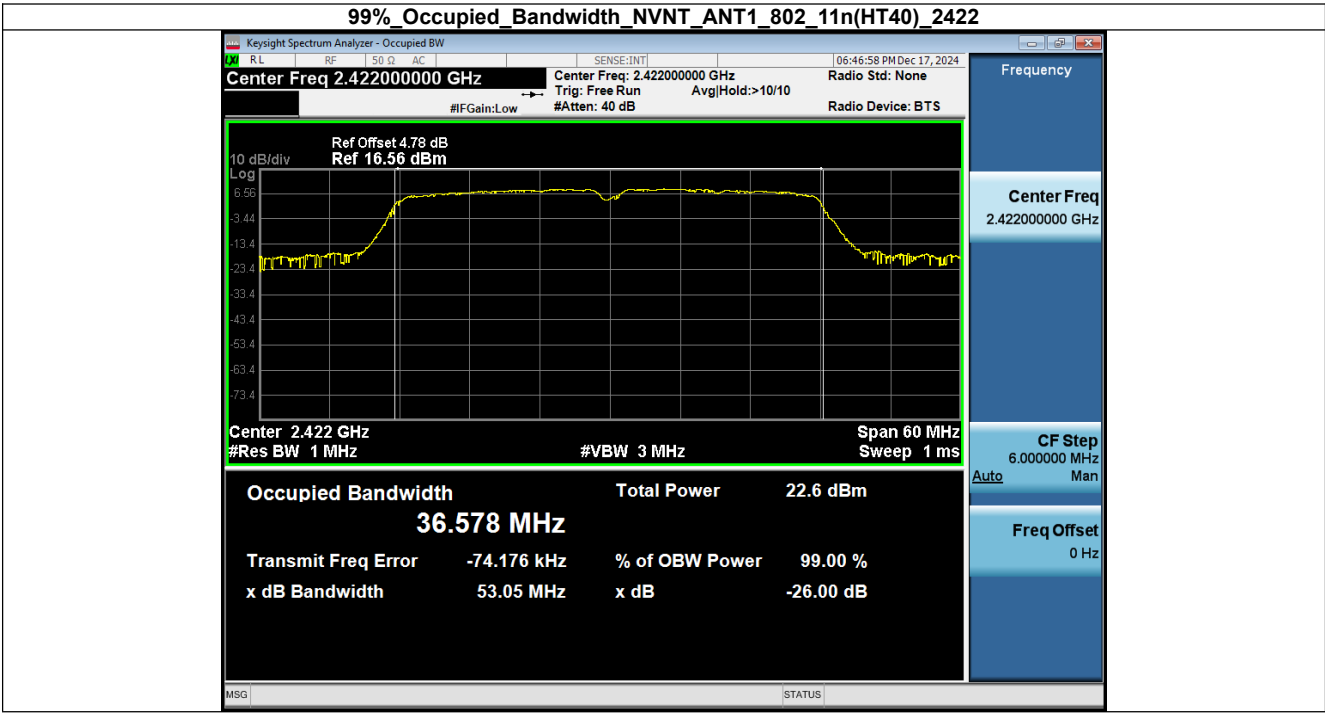
99% Occupied Bandwidth NVNT_ANT1_802_11g_2462

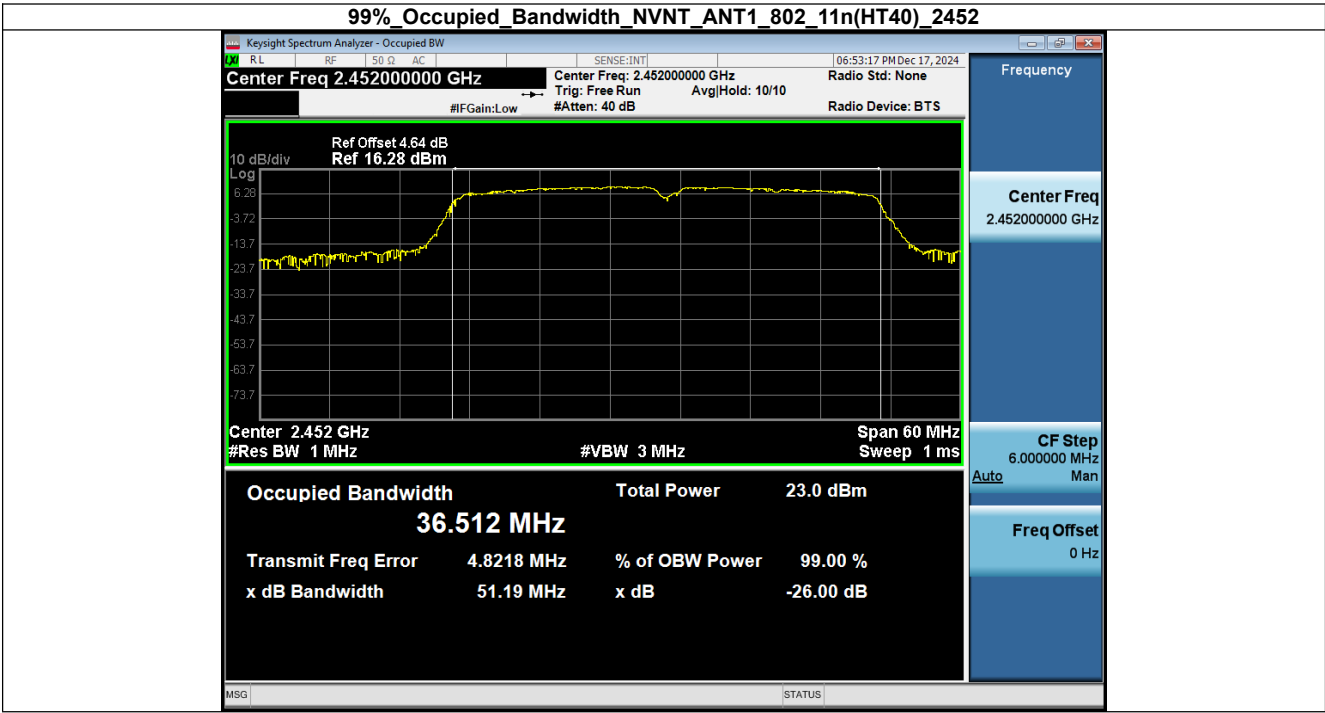


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412



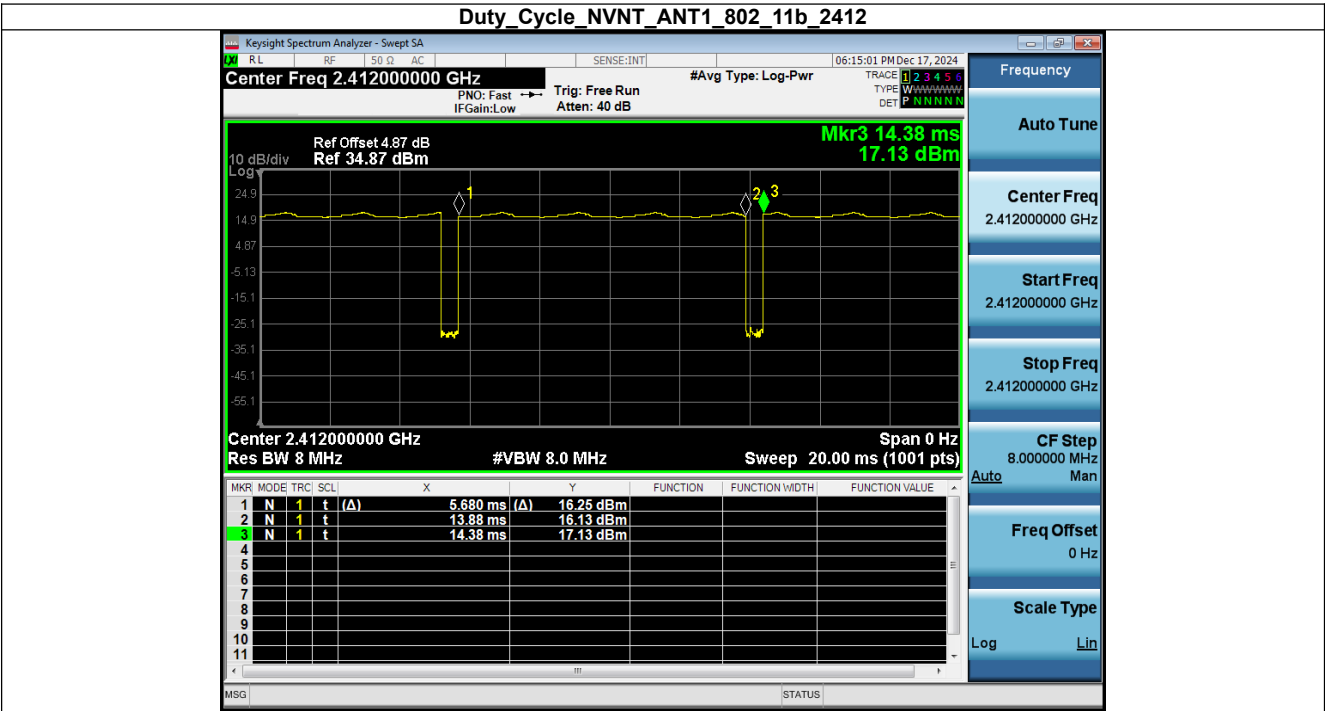




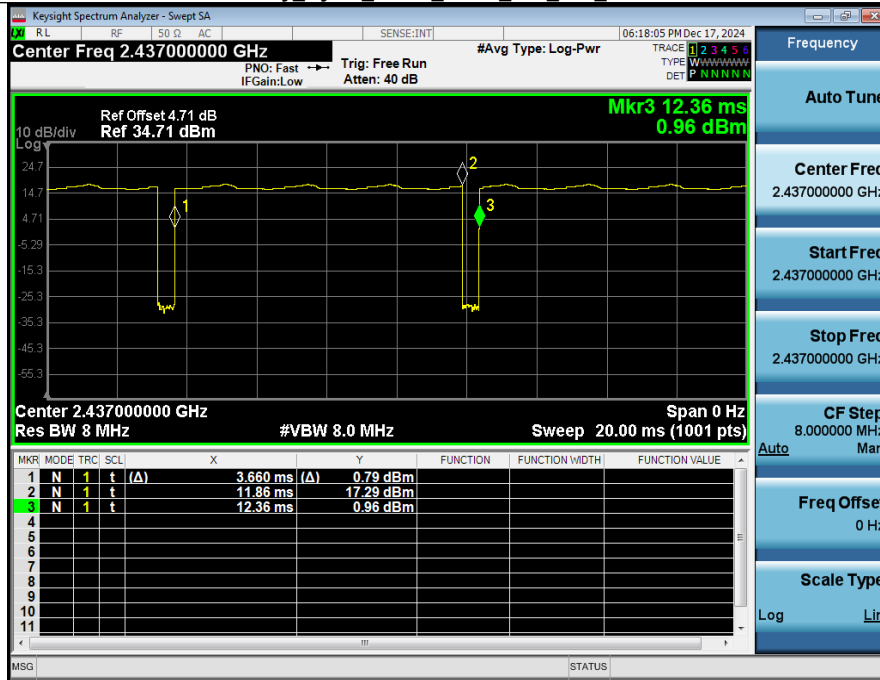


3. Duty Cycle

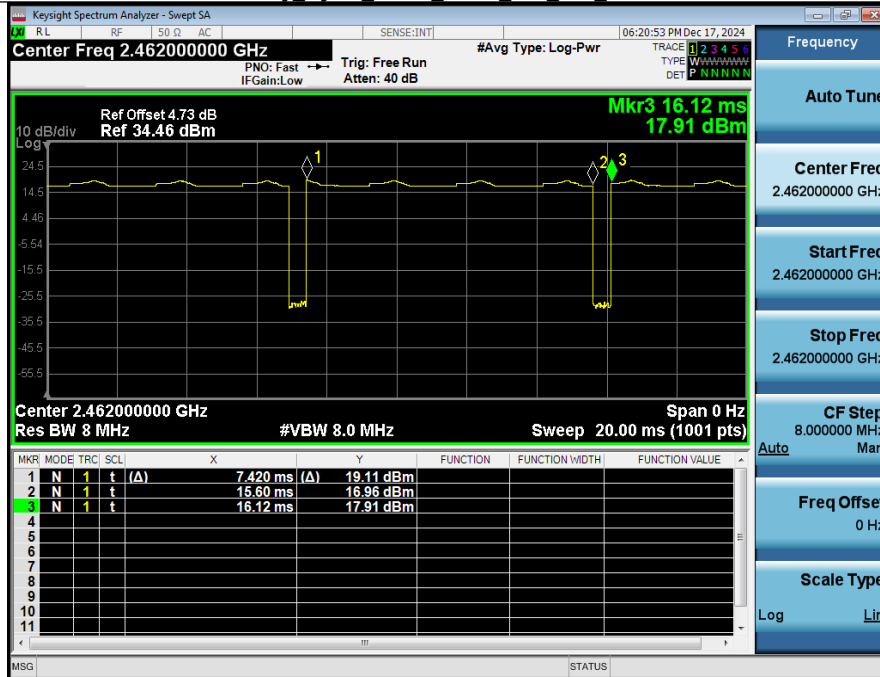
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	94.48	0.25
NVNT	ANT1	802.11b	2437.00	94.48	0.25
NVNT	ANT1	802.11b	2462.00	94.25	0.26
NVNT	ANT1	802.11g	2412.00	74.19	1.30
NVNT	ANT1	802.11g	2437.00	74.19	1.30
NVNT	ANT1	802.11g	2462.00	73.12	1.36
NVNT	ANT1	802.11n(HT20)	2412.00	72.73	1.38
NVNT	ANT1	802.11n(HT20)	2437.00	70.79	1.50
NVNT	ANT1	802.11n(HT20)	2462.00	72.73	1.38
NVNT	ANT1	802.11n(HT40)	2422.00	57.89	2.37
NVNT	ANT1	802.11n(HT40)	2437.00	57.89	2.37
NVNT	ANT1	802.11n(HT40)	2452.00	55.36	2.57



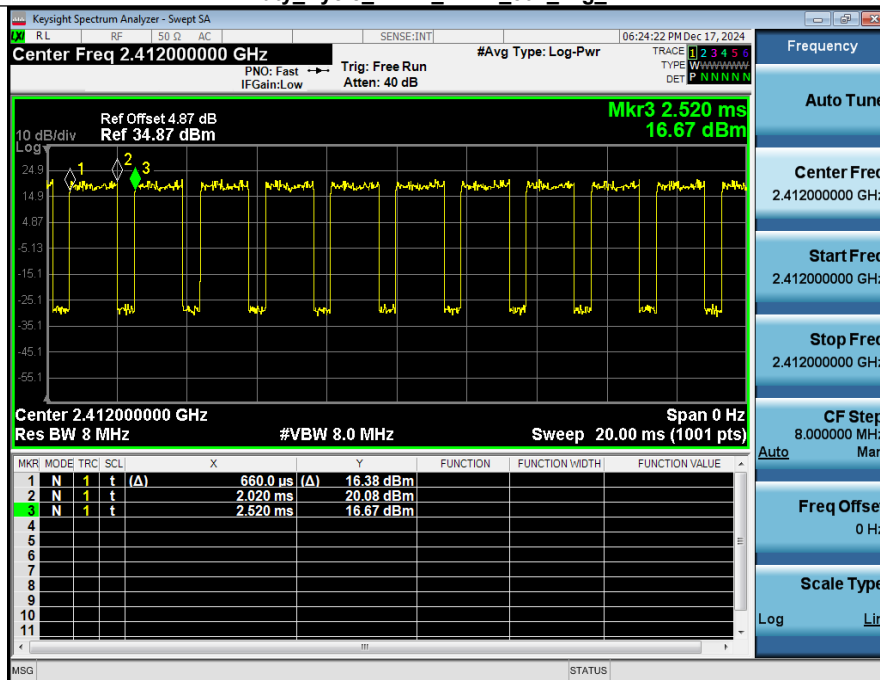
Duty Cycle NVNT ANT1_802_11b_2437



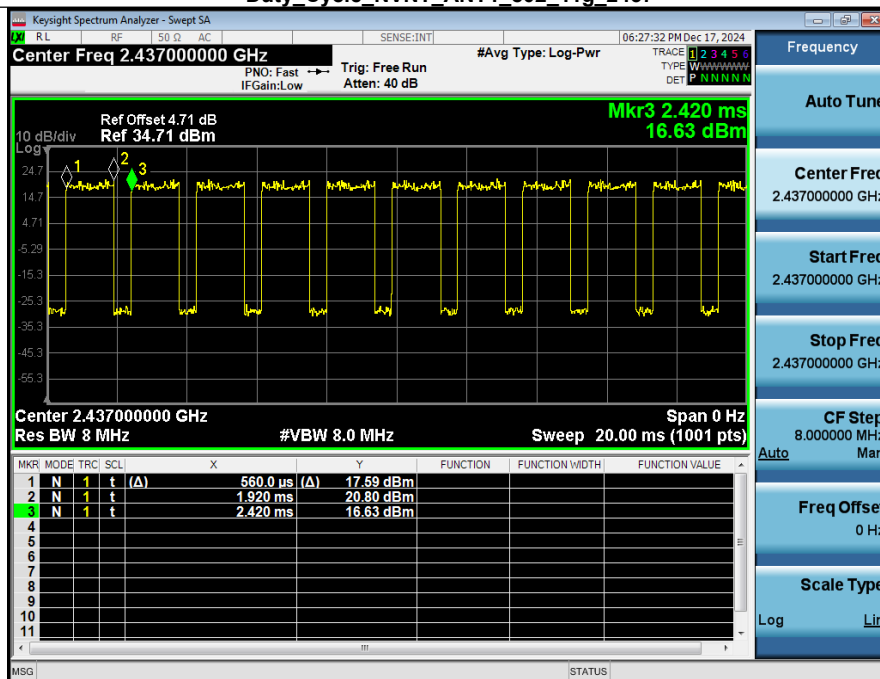
Duty Cycle NVNT ANT1_802_11b_2462



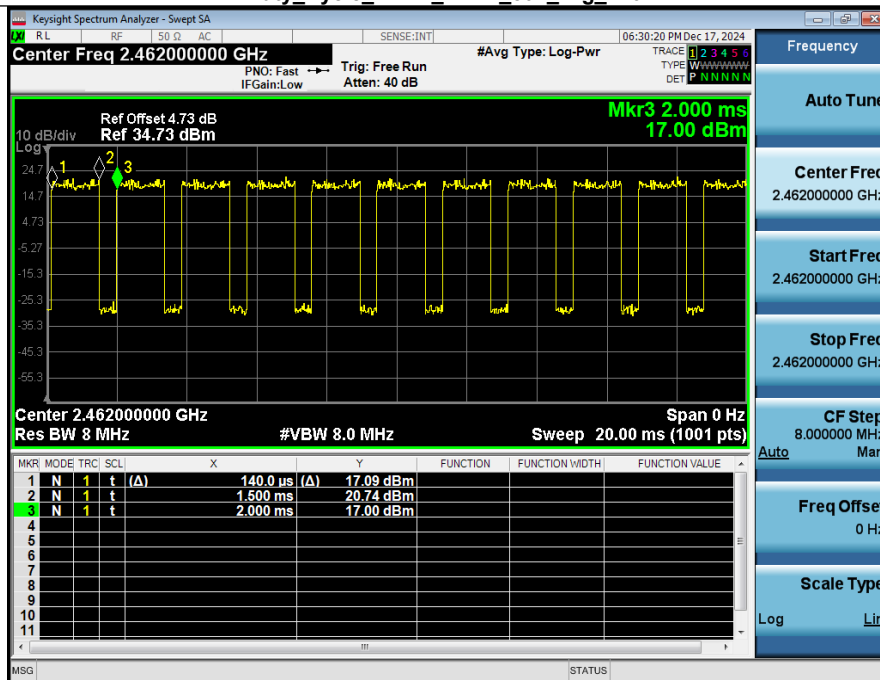
Duty Cycle NVNT_ANT1_802_11g_2412



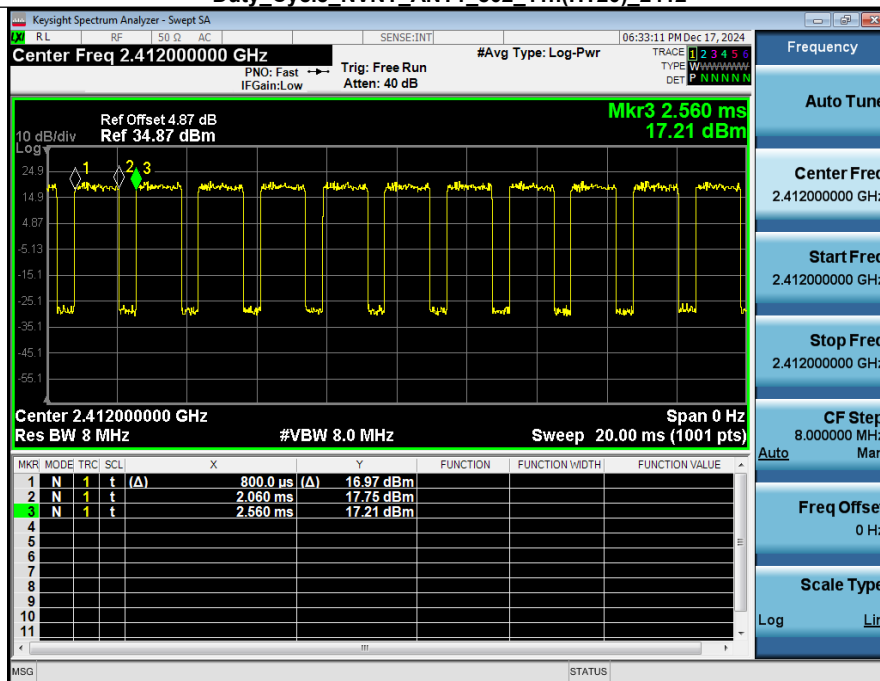
Duty Cycle NVNT_ANT1_802_11g_2437



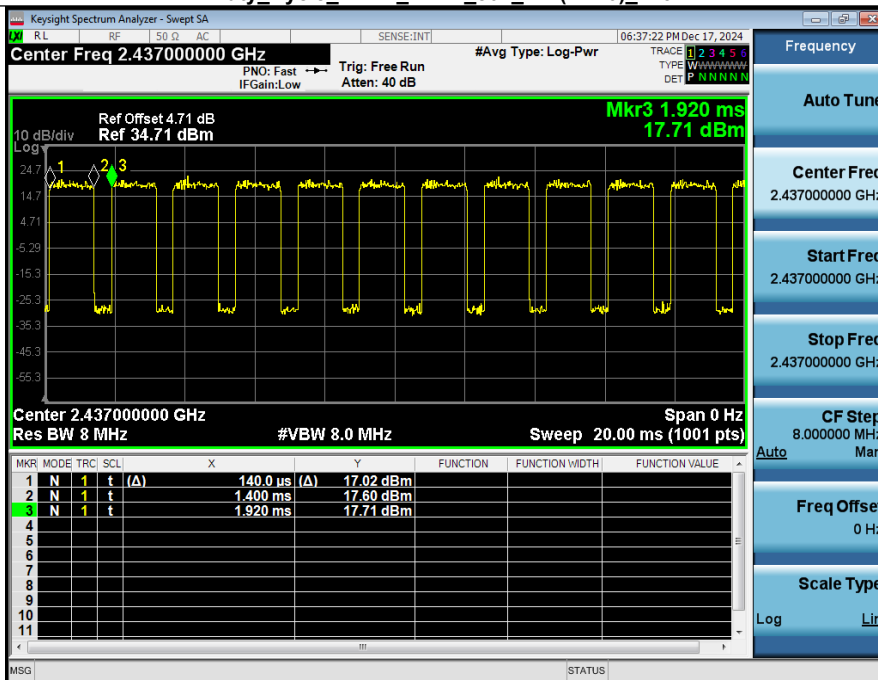
Duty Cycle NVNT_ANT1_802_11g_2462



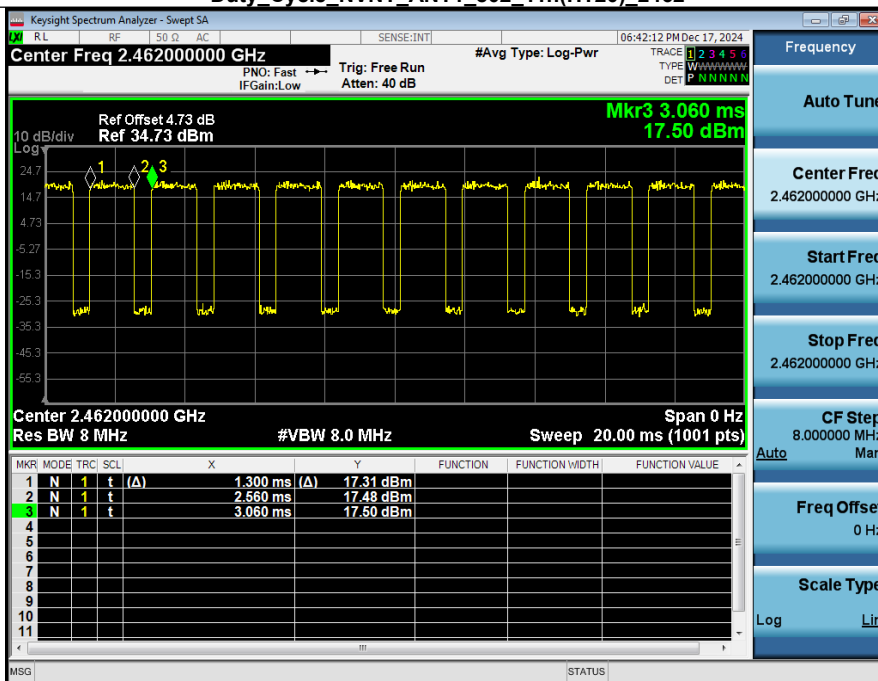
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



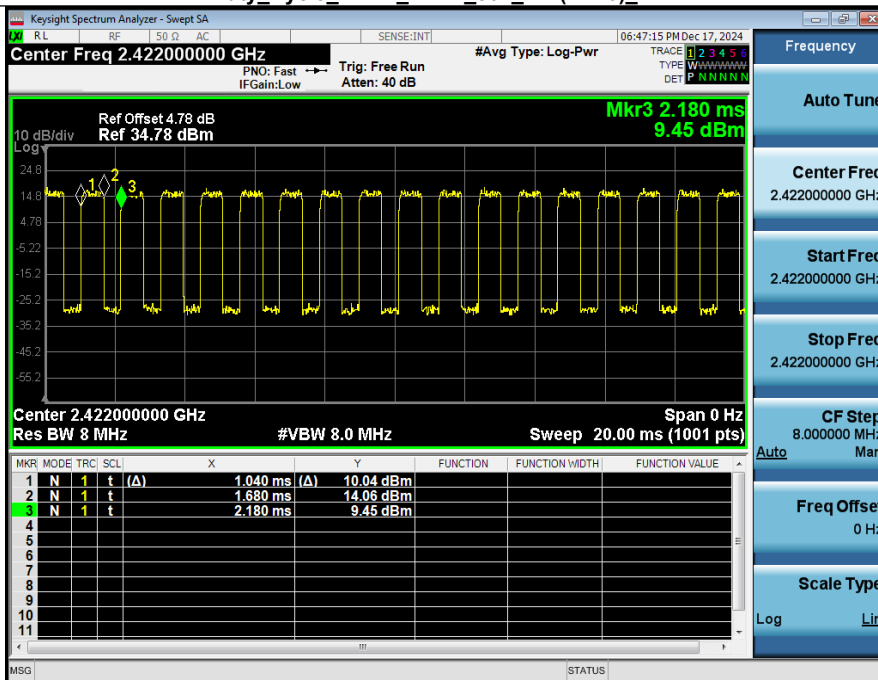
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



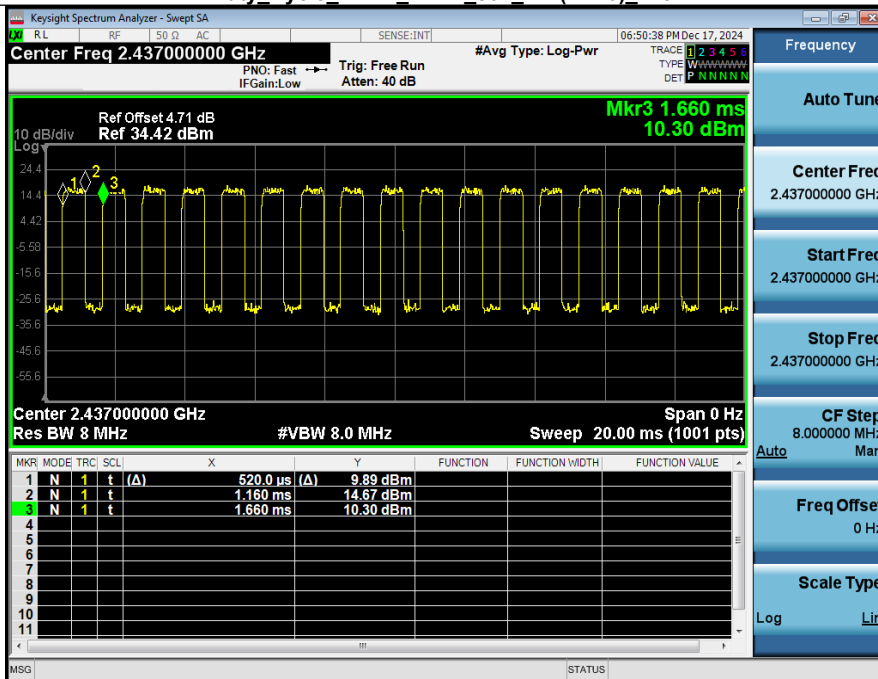
Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



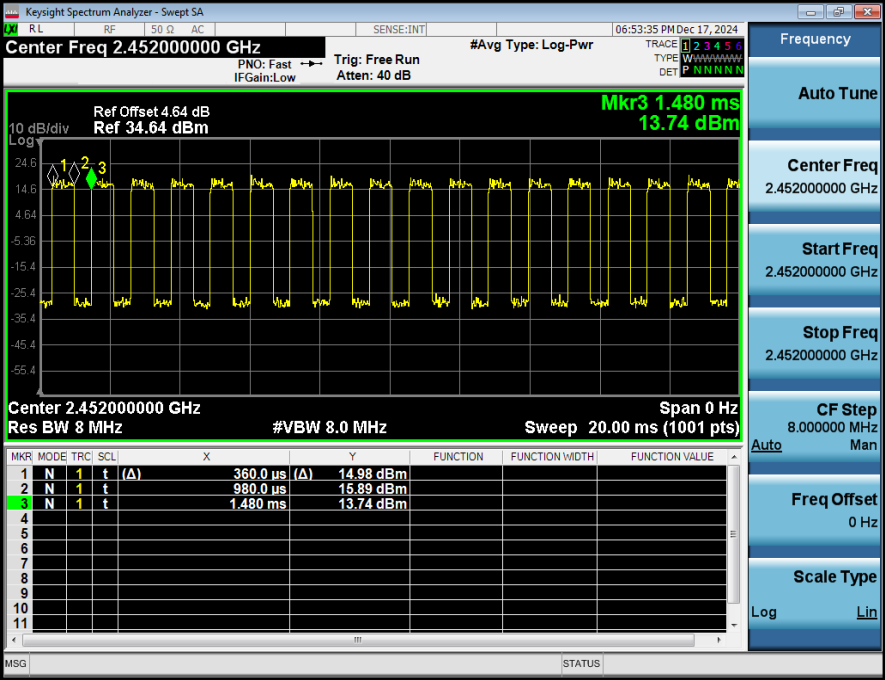
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



Duty Cycle NVNT_ANT1_802_11n(HT40)_2437



Duty Cycle NVNT_ANT1_802_11n(HT40)_2452



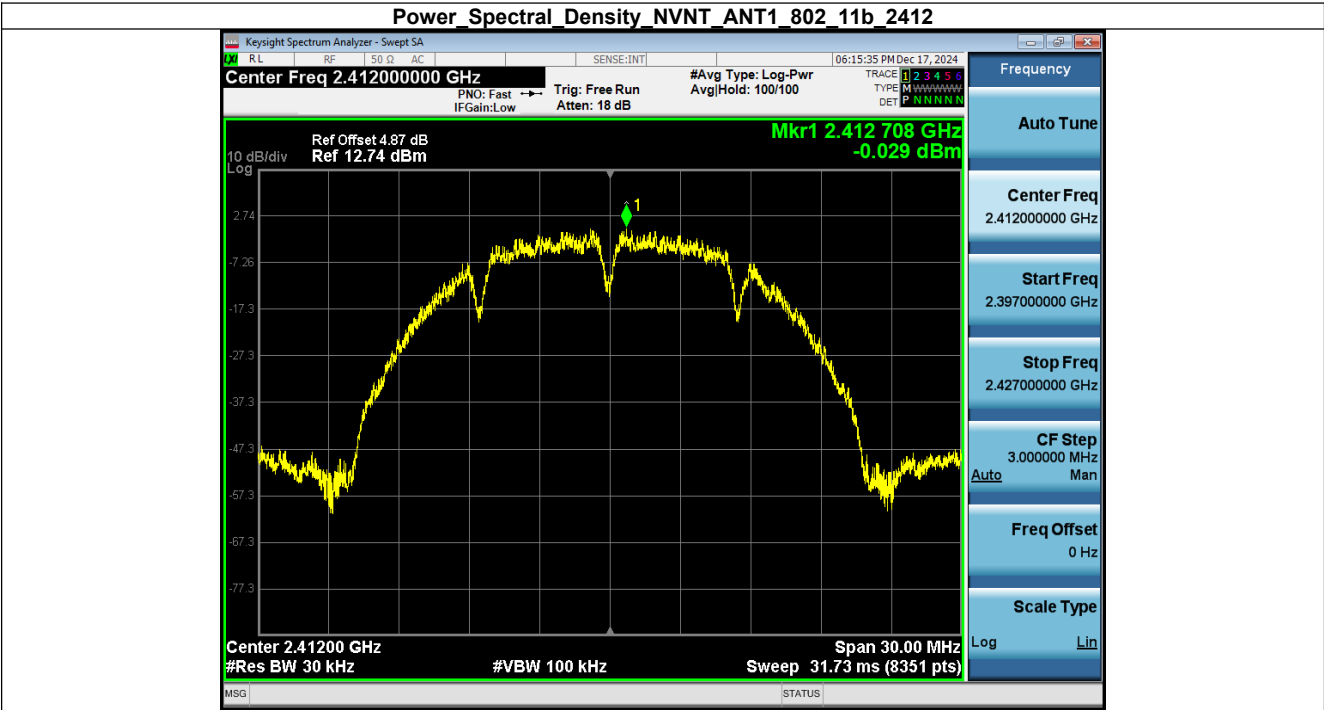
4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	15.80	N/A	15.80	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	16.04	N/A	16.04	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	16.73	N/A	16.73	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	20.90	N/A	20.90	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	21.14	N/A	21.14	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	21.29	N/A	21.29	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	21.18	N/A	21.18	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	21.44	N/A	21.44	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	21.60	N/A	21.60	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	21.13	N/A	21.13	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	21.46	N/A	21.46	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	21.37	N/A	21.37	30	Pass

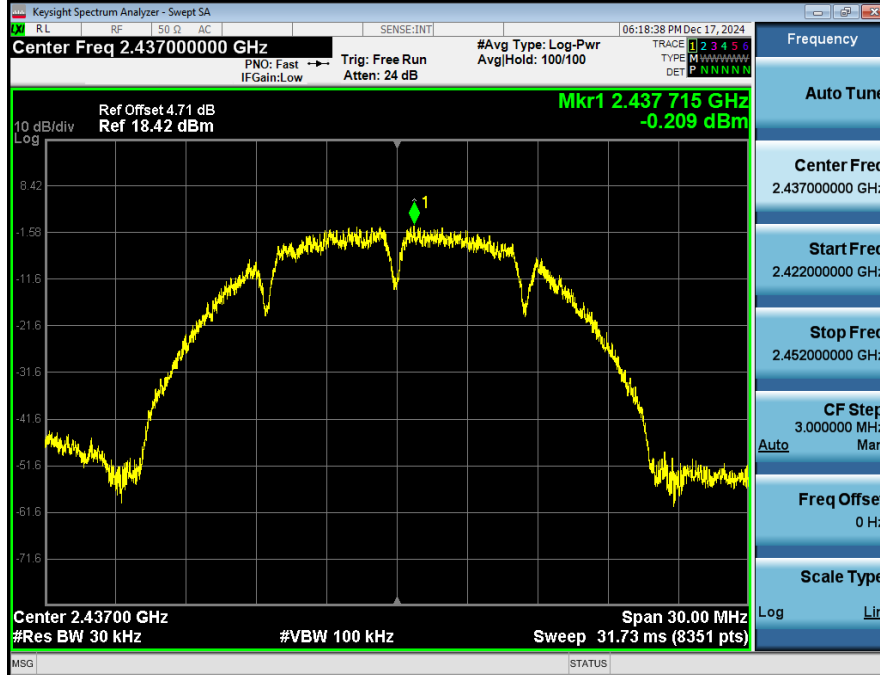
5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-0.03	N/A	-10.00	-10.03	8	Pass
NVNT	ANT1	802.11b	2437.00	-0.21	N/A	-10.00	-10.21	8	Pass
NVNT	ANT1	802.11b	2462.00	0.40	N/A	-10.00	-9.60	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.99	N/A	-10.00	-10.99	8	Pass
NVNT	ANT1	802.11g	2437.00	-0.88	N/A	-10.00	-10.88	8	Pass
NVNT	ANT1	802.11g	2462.00	-0.75	N/A	-10.00	-10.75	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-0.90	N/A	-10.00	-10.90	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.01	N/A	-10.00	-11.01	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-0.91	N/A	-10.00	-10.91	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-7.70	N/A	-10.00	-17.70	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-7.41	N/A	-10.00	-17.41	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-7.37	N/A	-10.00	-17.37	8	Pass

Remark:PSD(dbm/3kHz)=PSD(dbm/30kHz)-10Log(30kHz/3kHz)



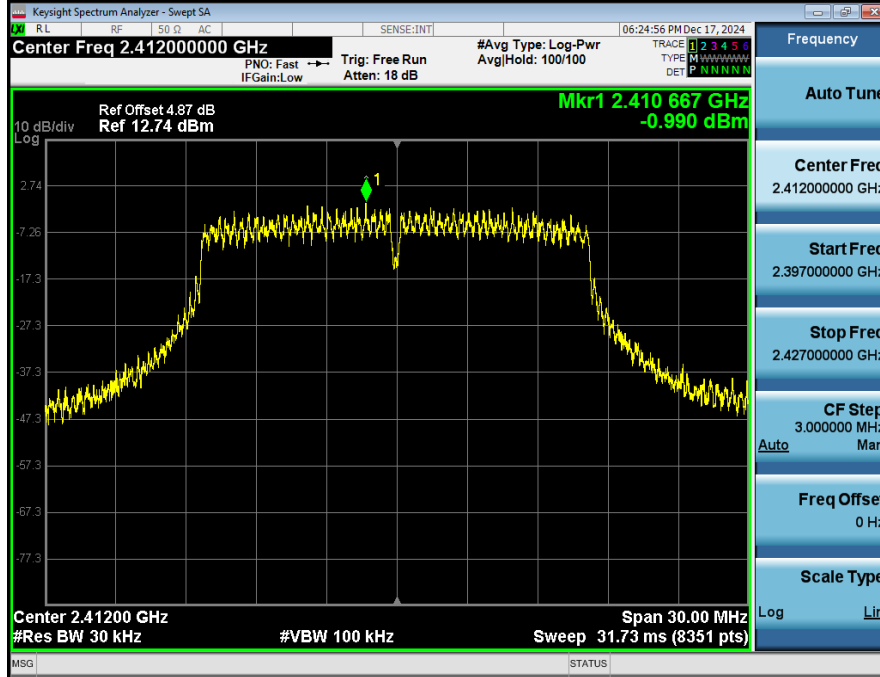
Power Spectral Density NVNT_ANT1_802_11b_2437



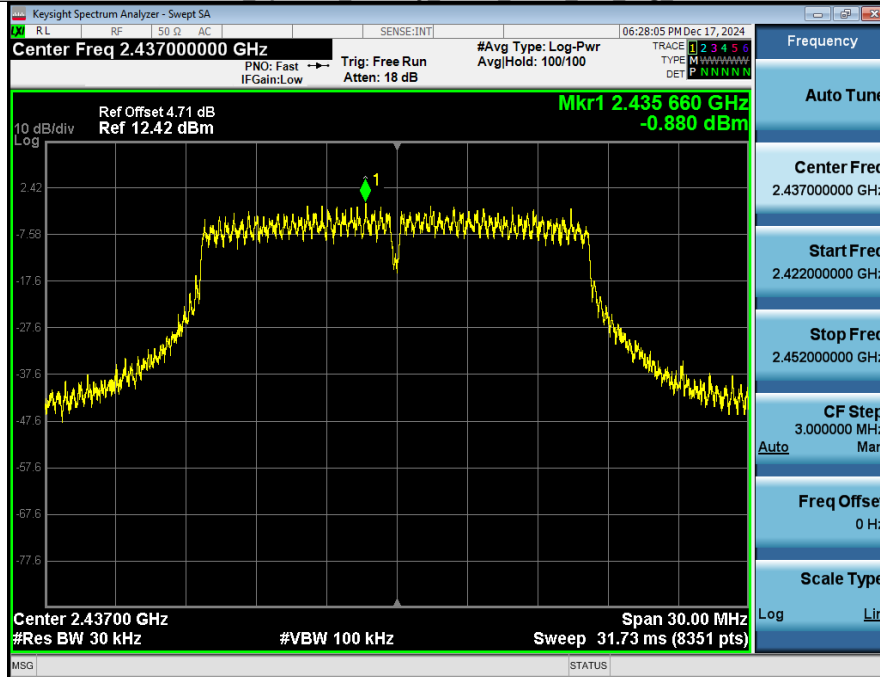
Power Spectral Density NVNT_ANT1_802_11b_2462



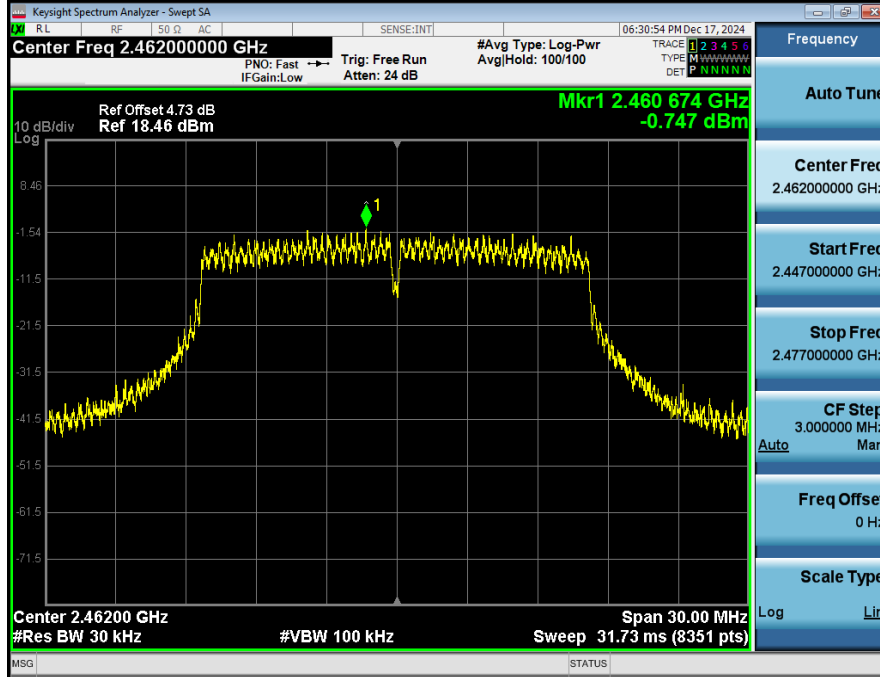
Power Spectral Density NVNT_ANT1_802_11g_2412



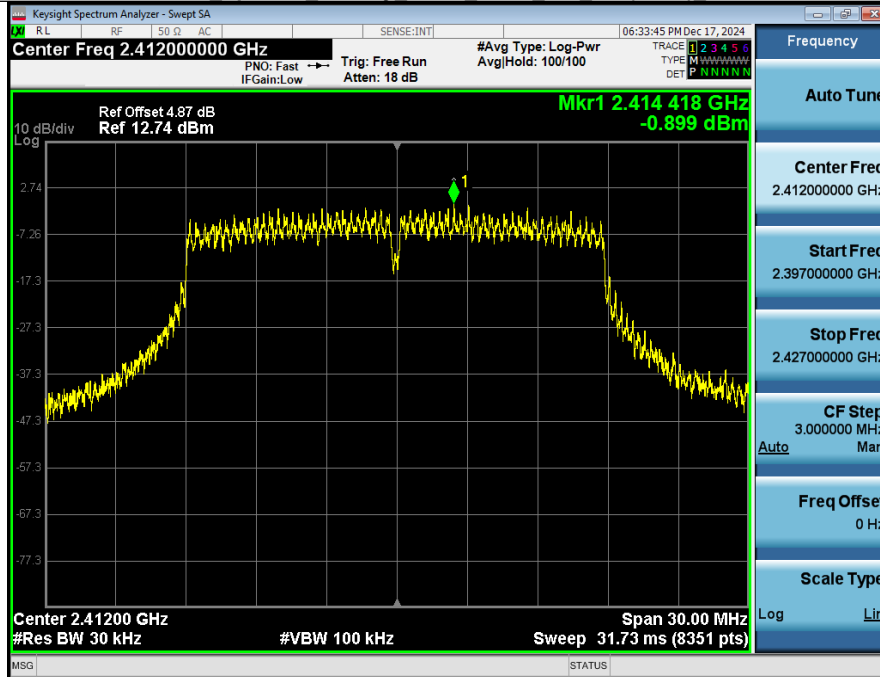
Power Spectral Density NVNT_ANT1_802_11g_2437



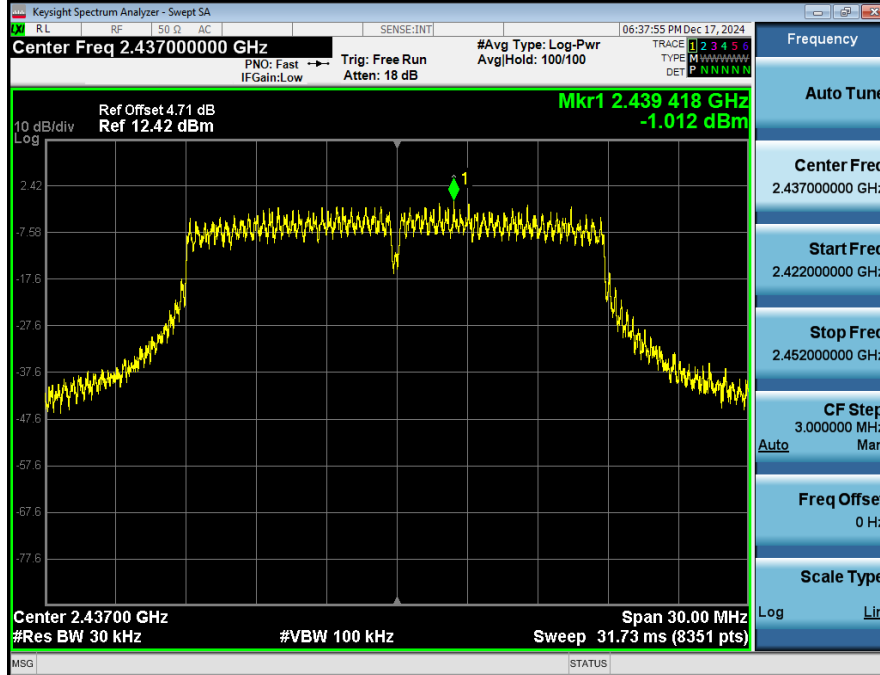
Power Spectral Density NVNT_ANT1_802_11g_2462



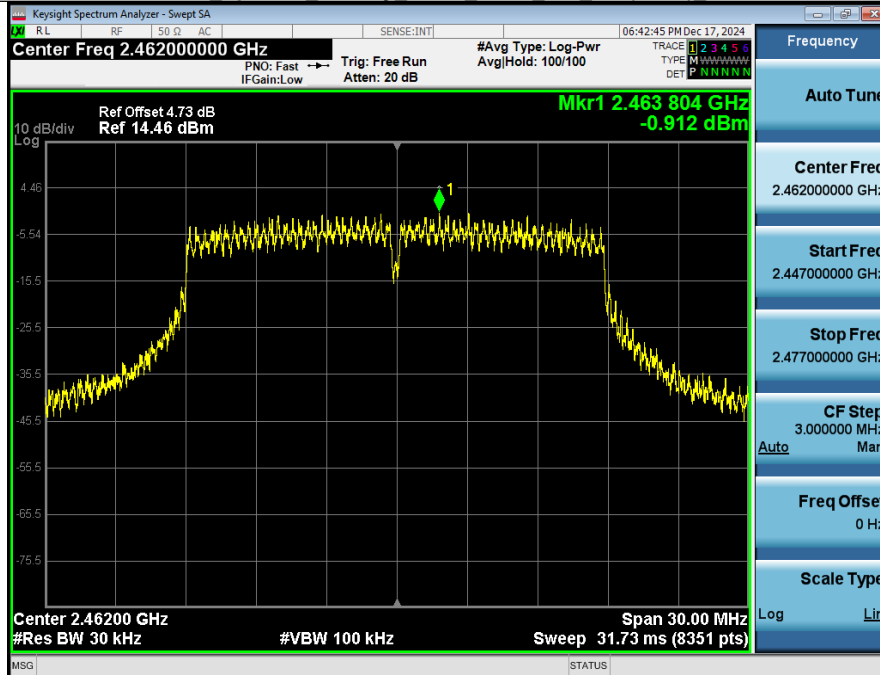
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2412



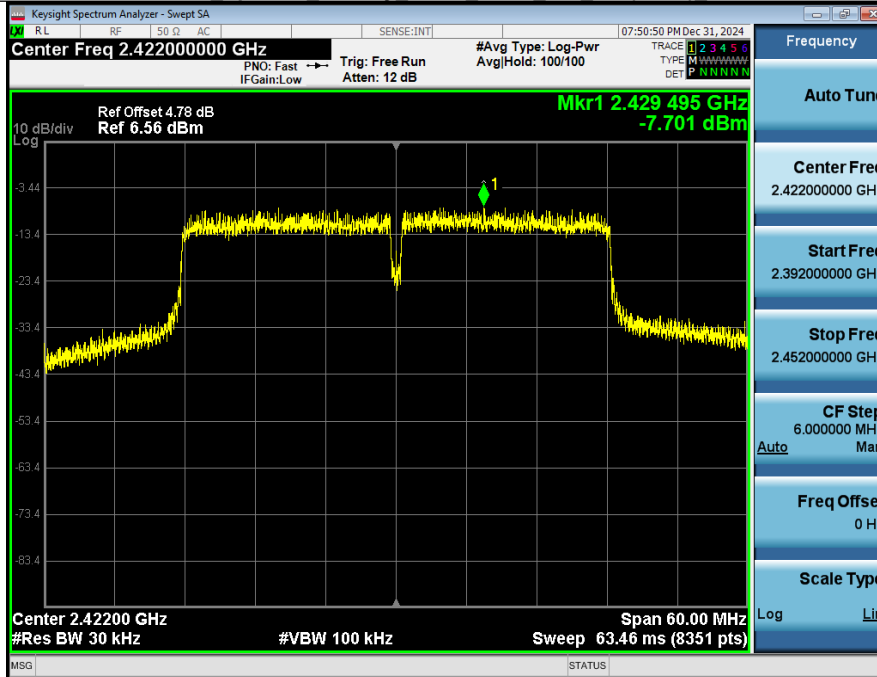
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2437



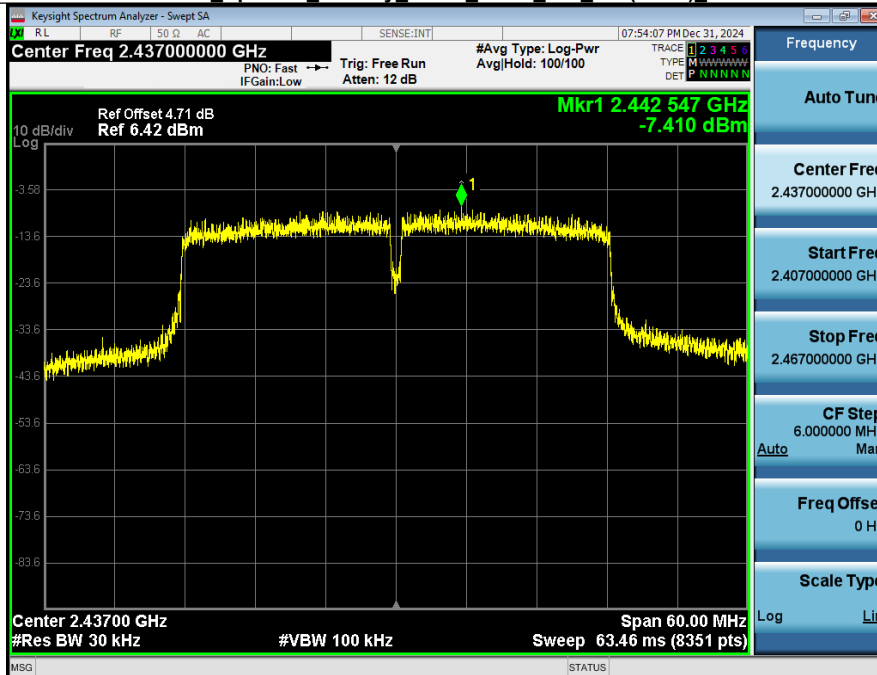
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2462



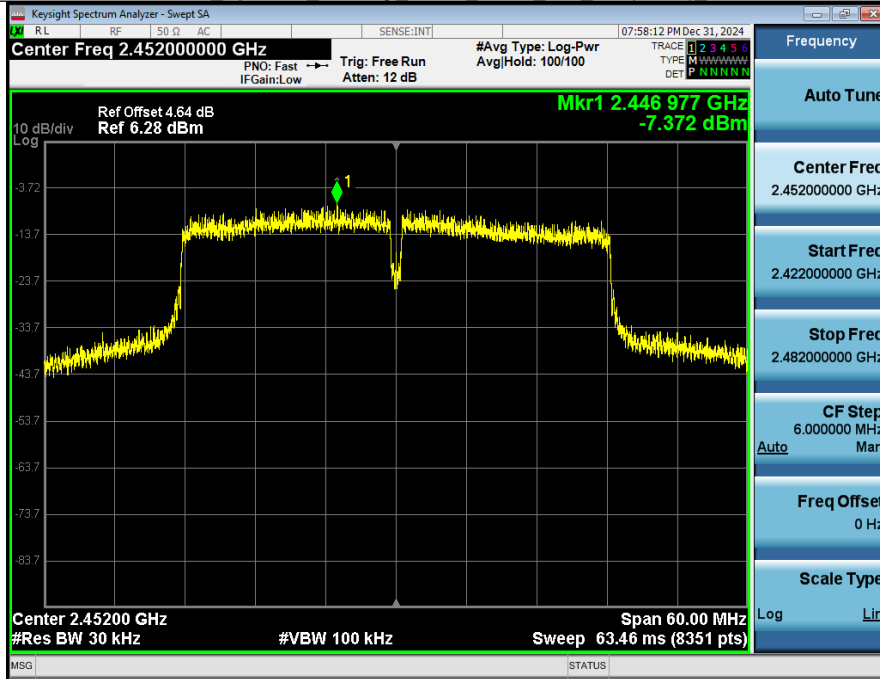
Power Spectral Density NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density NVNT_ANT1_802_11n(HT40)_2437

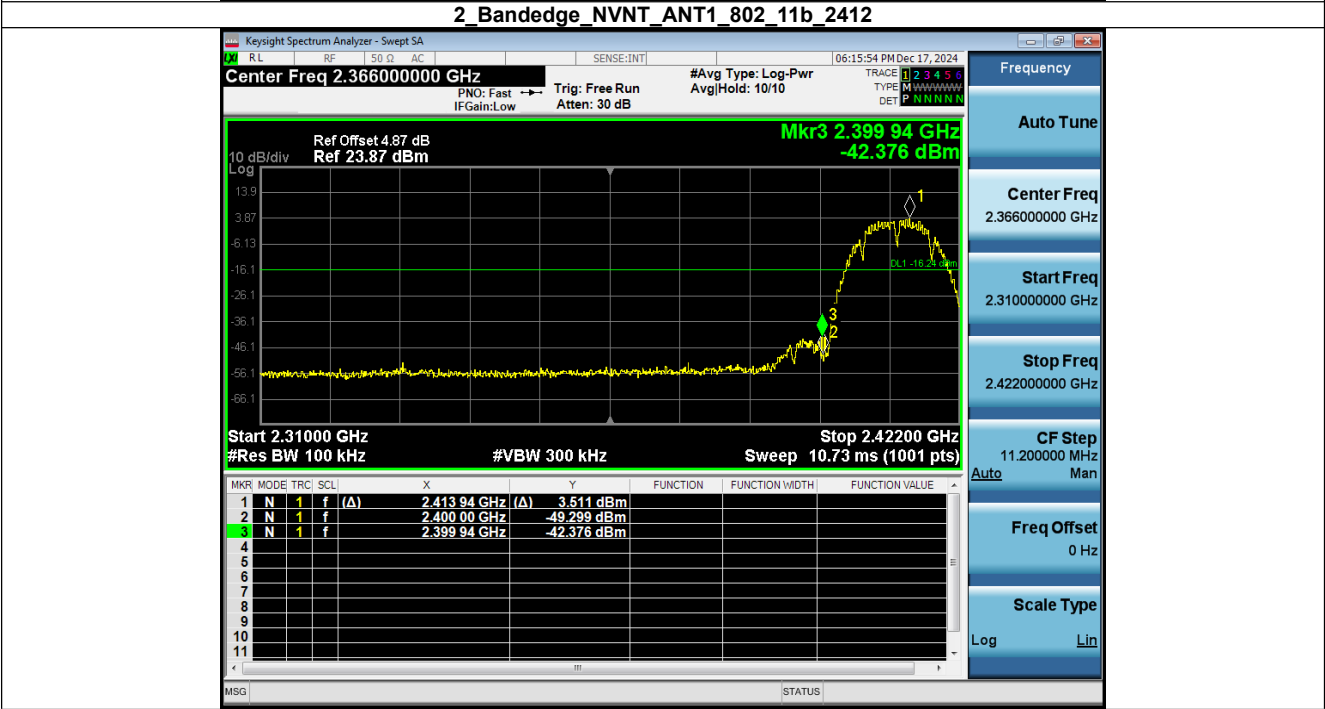
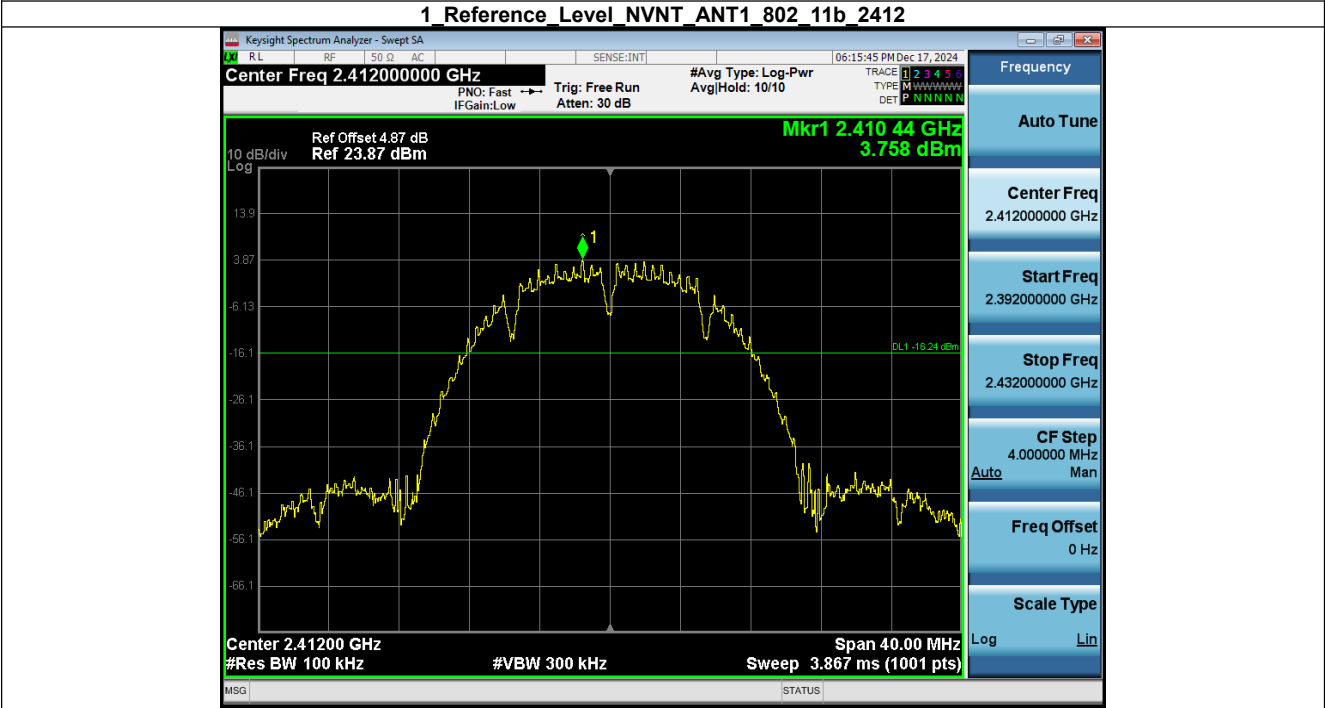


Power Spectral Density NVNT_ANT1_802_11n(HT40)_2452

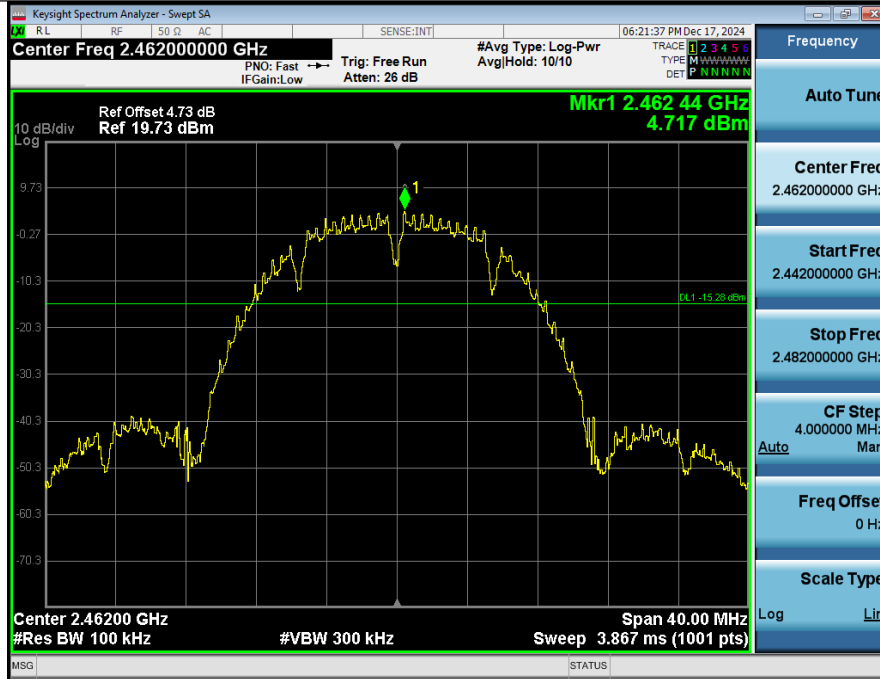


6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	-42.376	-16.242	Pass
NVNT	ANT1	802.11b	2462.00	2487.616	-52.808	-15.283	Pass
NVNT	ANT1	802.11g	2412.00	2399.712	-32.402	-16.251	Pass
NVNT	ANT1	802.11g	2462.00	2483.776	-40.934	-16.384	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-30.416	-16.492	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2485.312	-39.372	-15.821	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2391.576	-31.127	-19.179	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2488.236	-29.320	-18.398	Pass



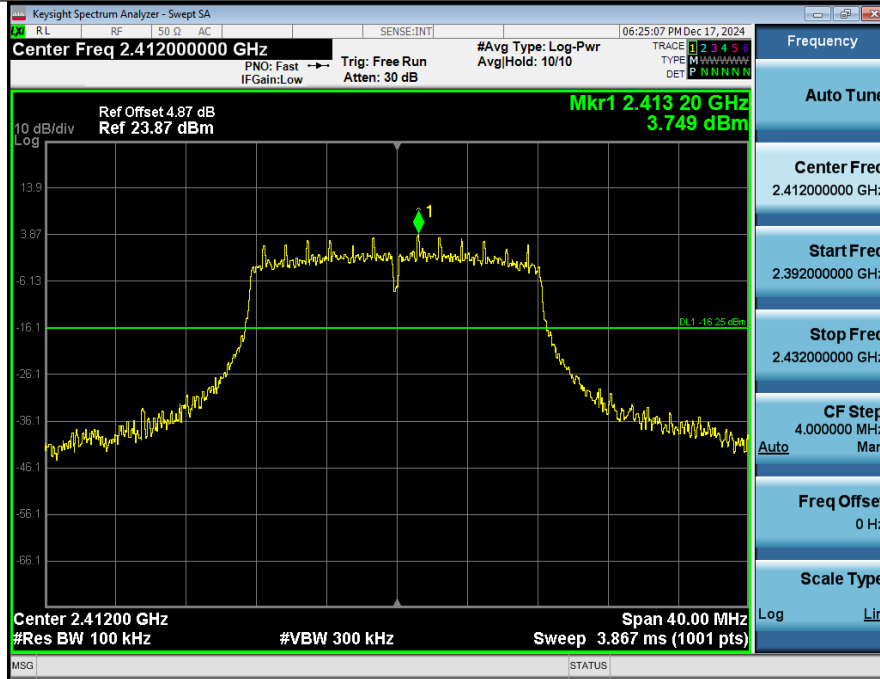
1 Reference Level_NVNT_ANT1_802_11b_2462



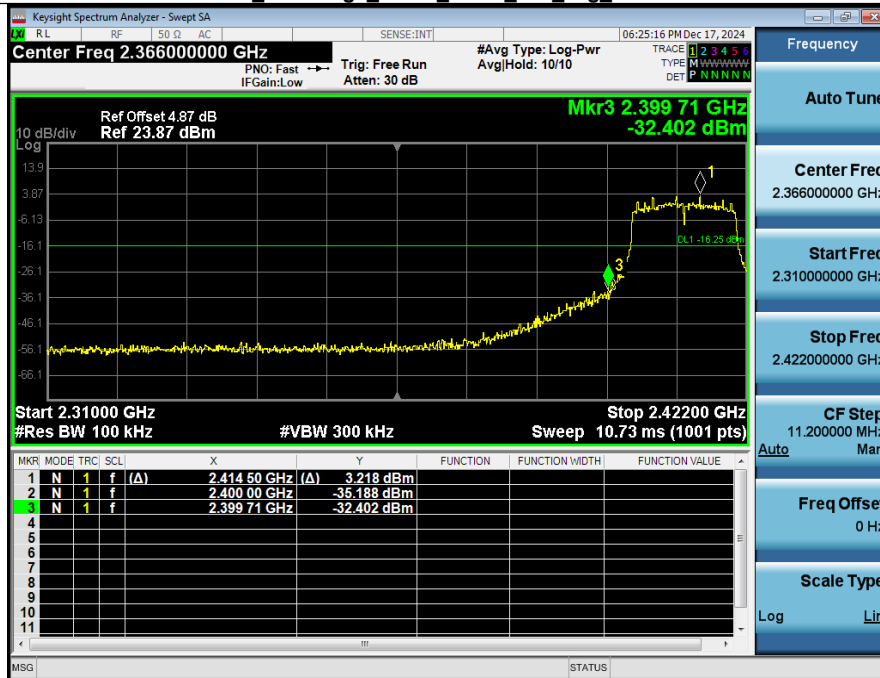
2 Bandedge_NVNT_ANT1_802_11b_2462



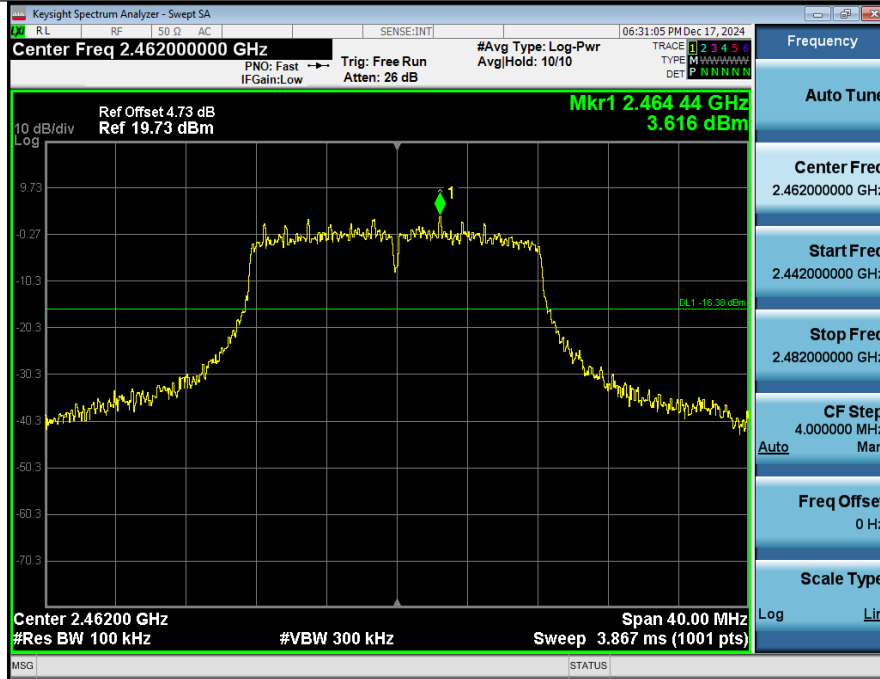
1 Reference Level_NVNT_ANT1_802_11g_2412



2 Bandedge_NVNT_ANT1_802_11g_2412



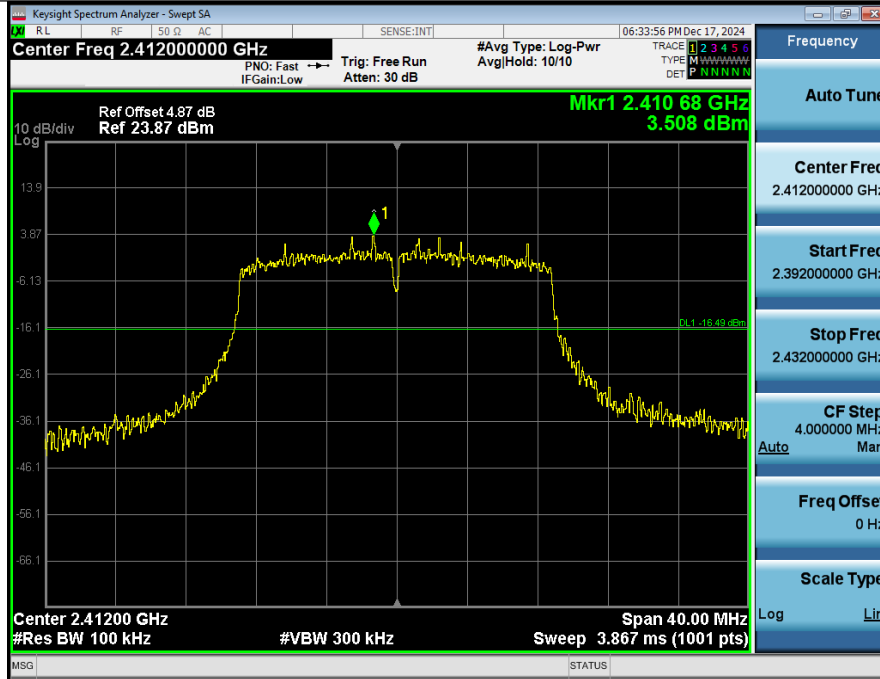
1 Reference Level_NVNT_ANT1_802_11g_2462



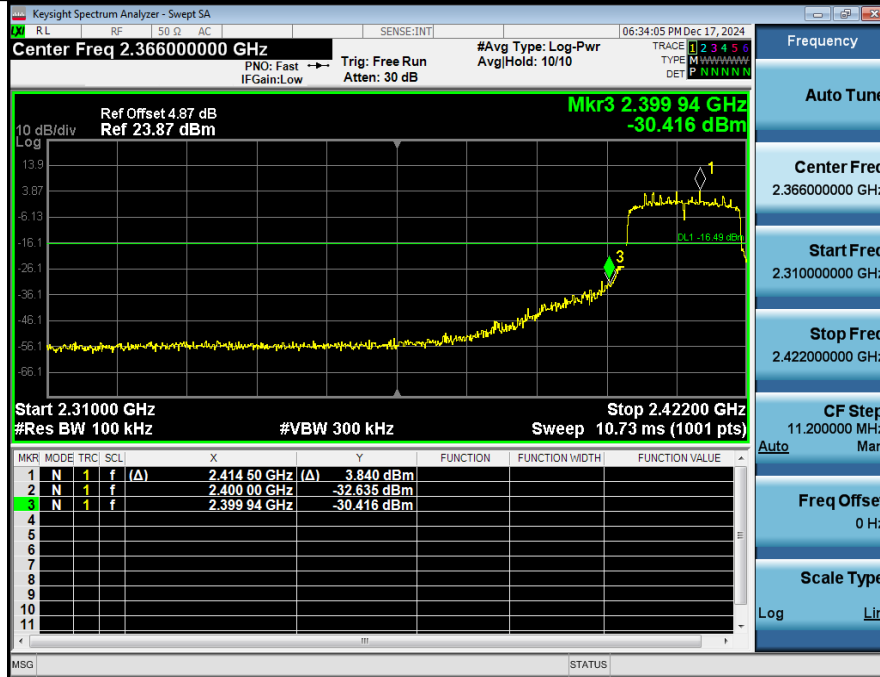
2 Bandedge_NVNT_ANT1_802_11g_2462



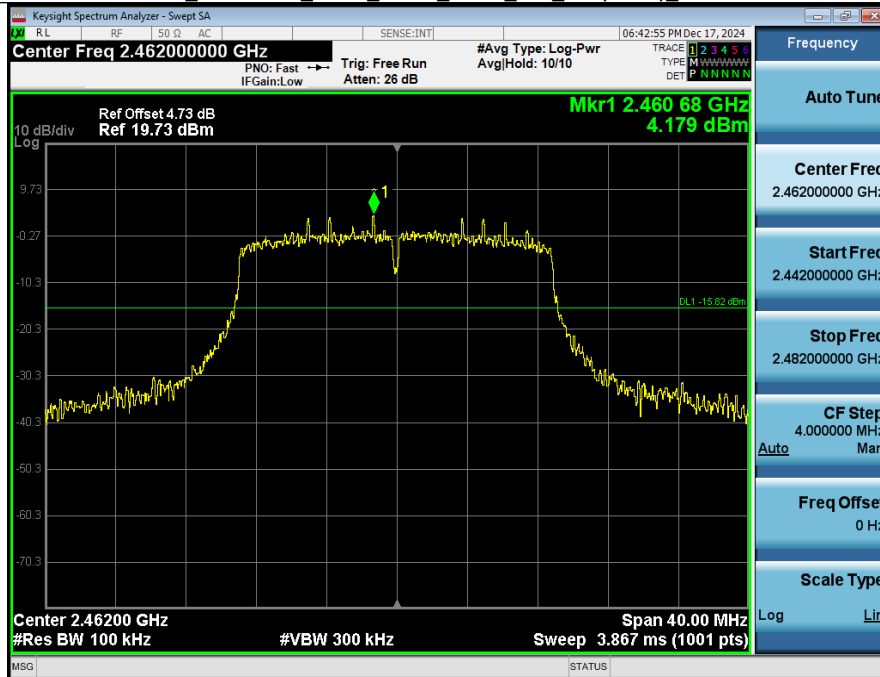
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



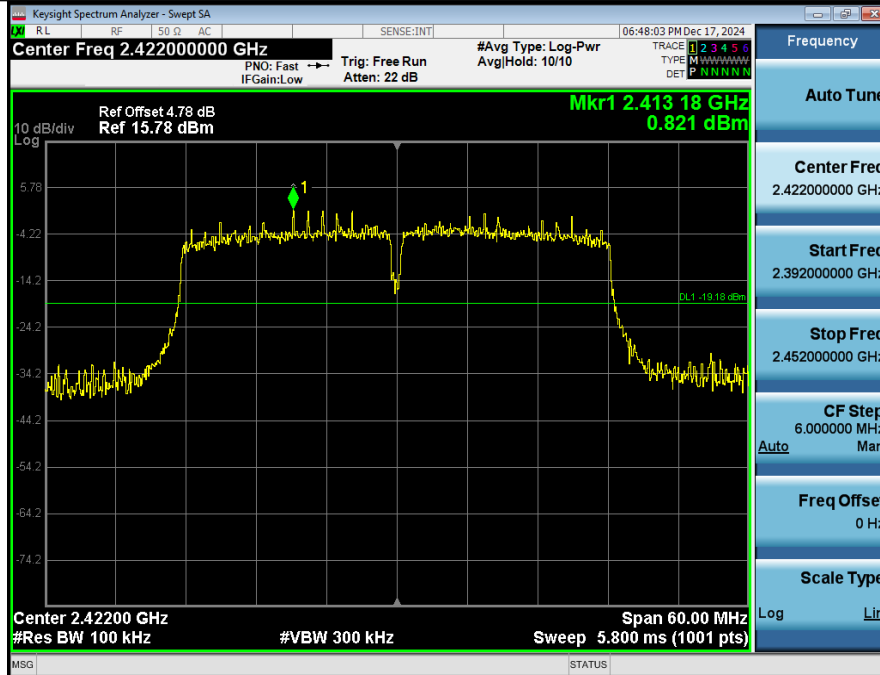
1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



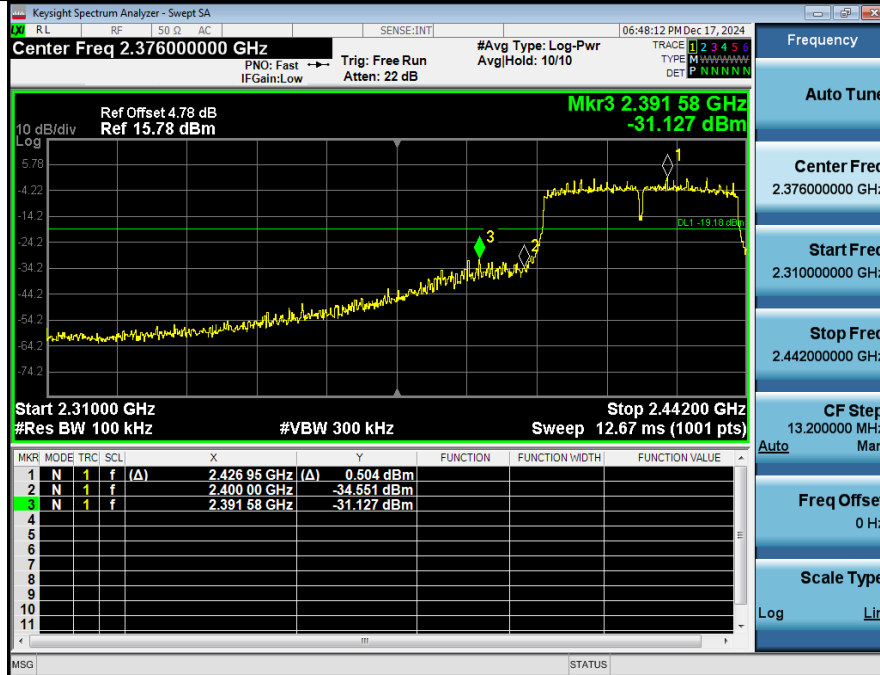
2 Bandedge NVNT_ANT1_802_11n(HT20)_2462



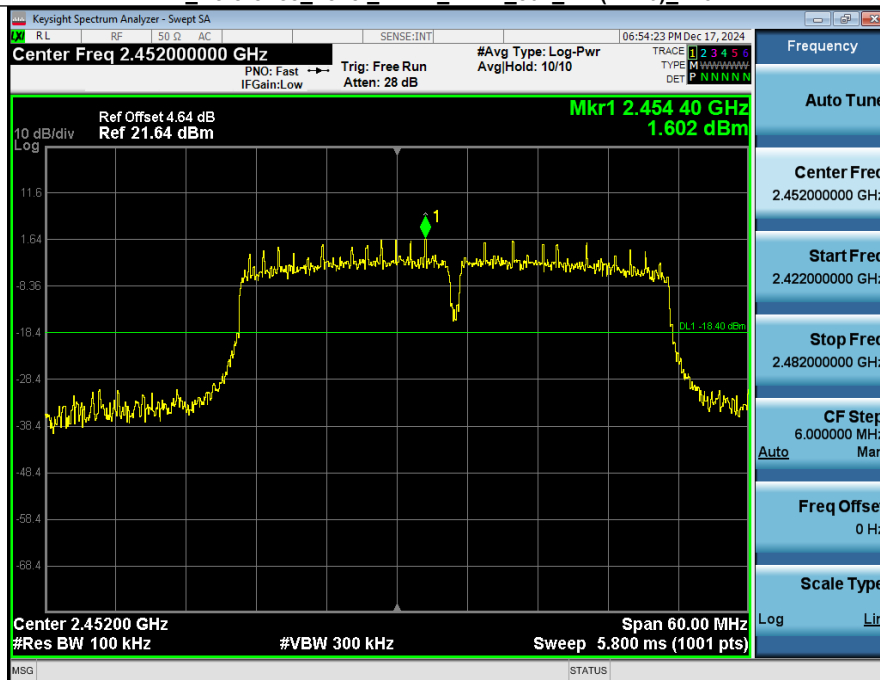
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2422



2 Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1 Reference Level_NVNT_ANT1_802_11n(HT40)_2452



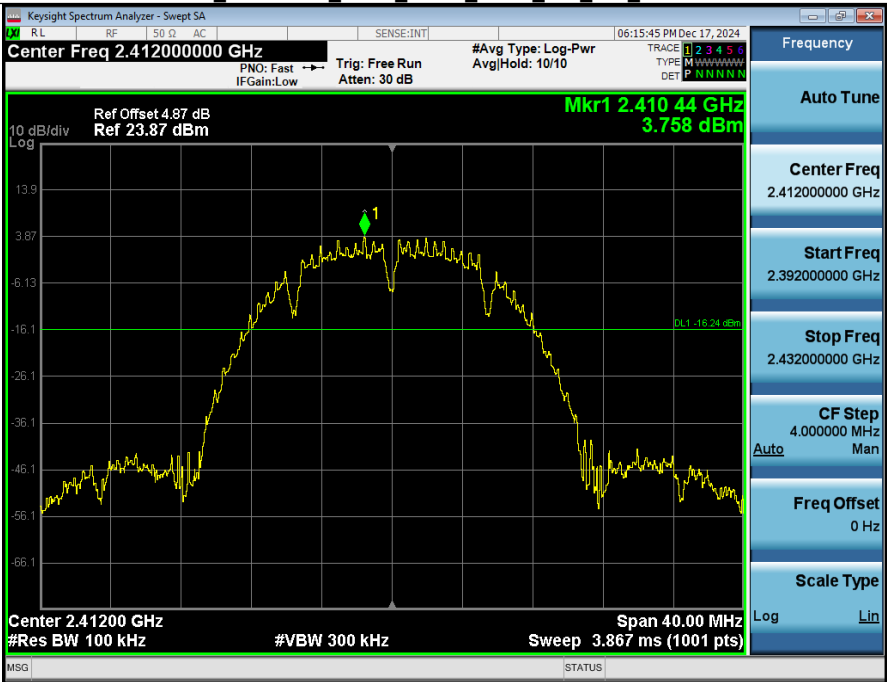
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



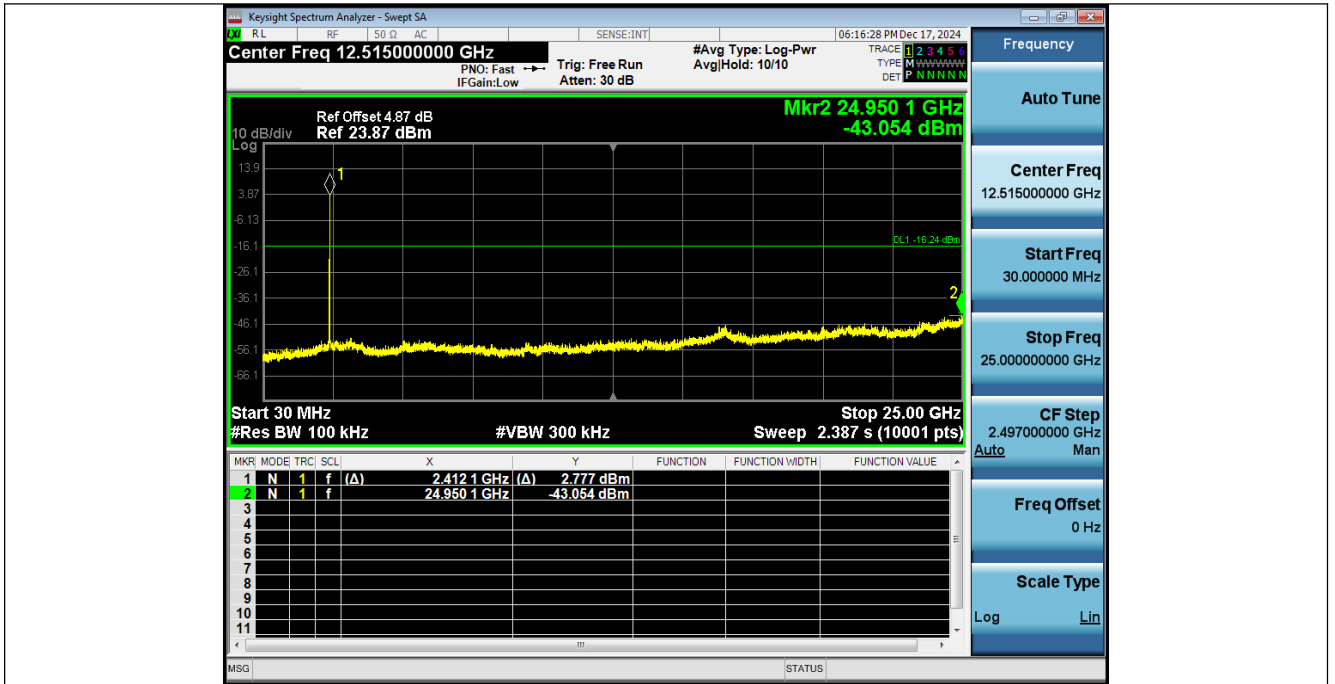
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24950.060	-43.054	-16.242	Pass
NVNT	ANT1	802.11b	2437.00	24962.545	-42.529	-16.149	Pass
NVNT	ANT1	802.11b	2462.00	24870.156	-47.390	-15.283	Pass
NVNT	ANT1	802.11g	2412.00	24962.545	-43.083	-16.251	Pass
NVNT	ANT1	802.11g	2437.00	24957.551	-43.297	-16.929	Pass
NVNT	ANT1	802.11g	2462.00	24970.036	-47.211	-16.384	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24985.018	-42.896	-16.492	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24937.575	-46.784	-15.468	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24982.521	-47.323	-15.821	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24985.018	-50.475	-19.179	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24975.030	-43.755	-18.839	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2504.527	-40.698	-18.398	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



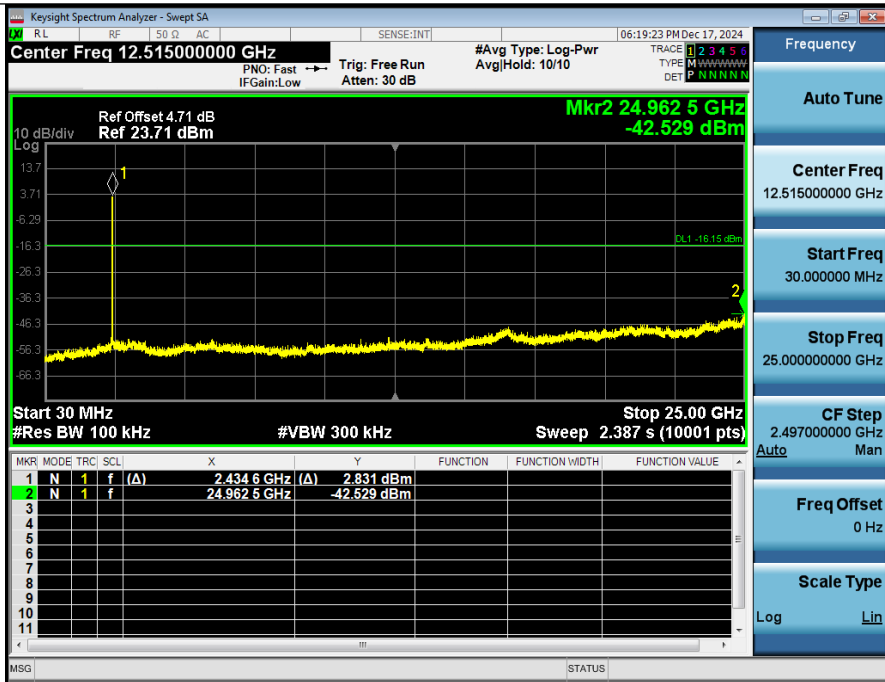
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



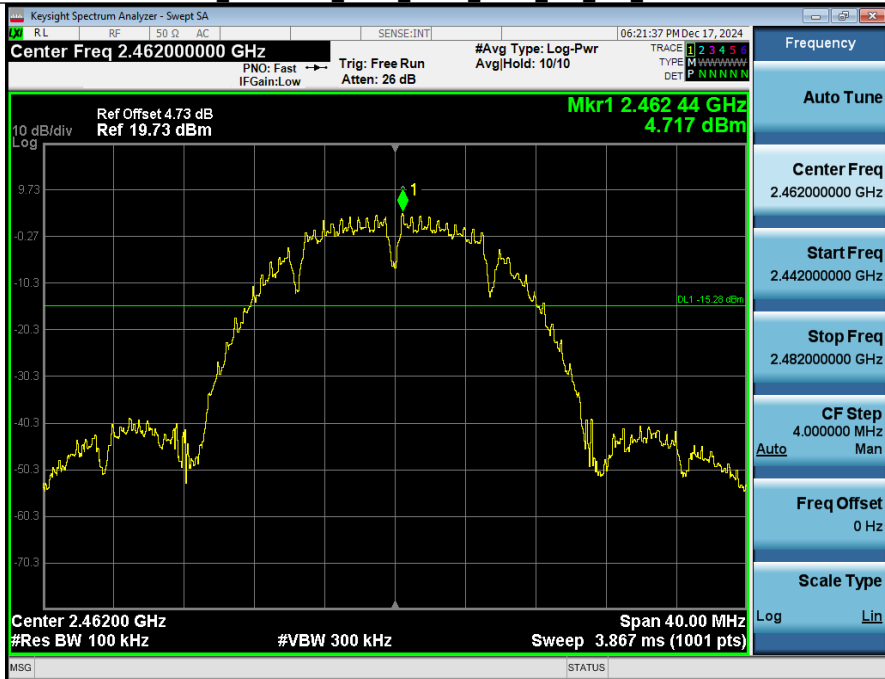
1 Reference Level NVNT_ANT1_802_11b_2437



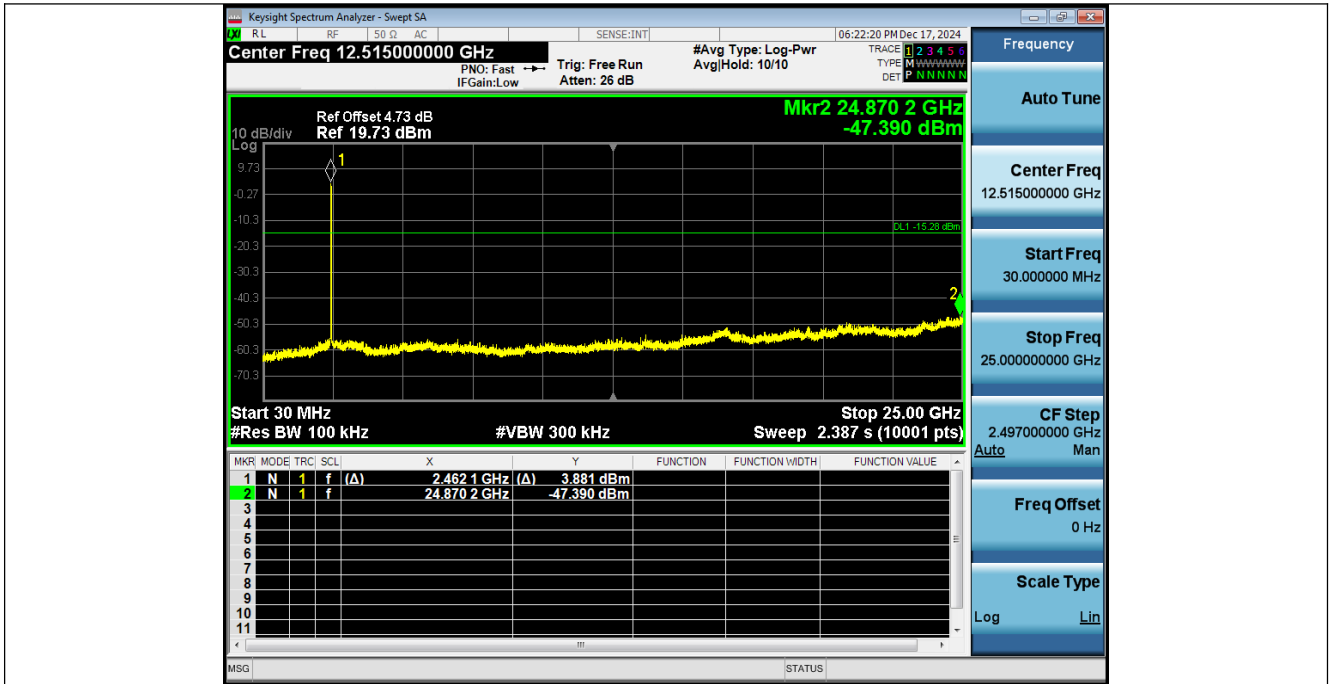
2 Spurious Emission_NVNT_ANT1_802_11b_2437



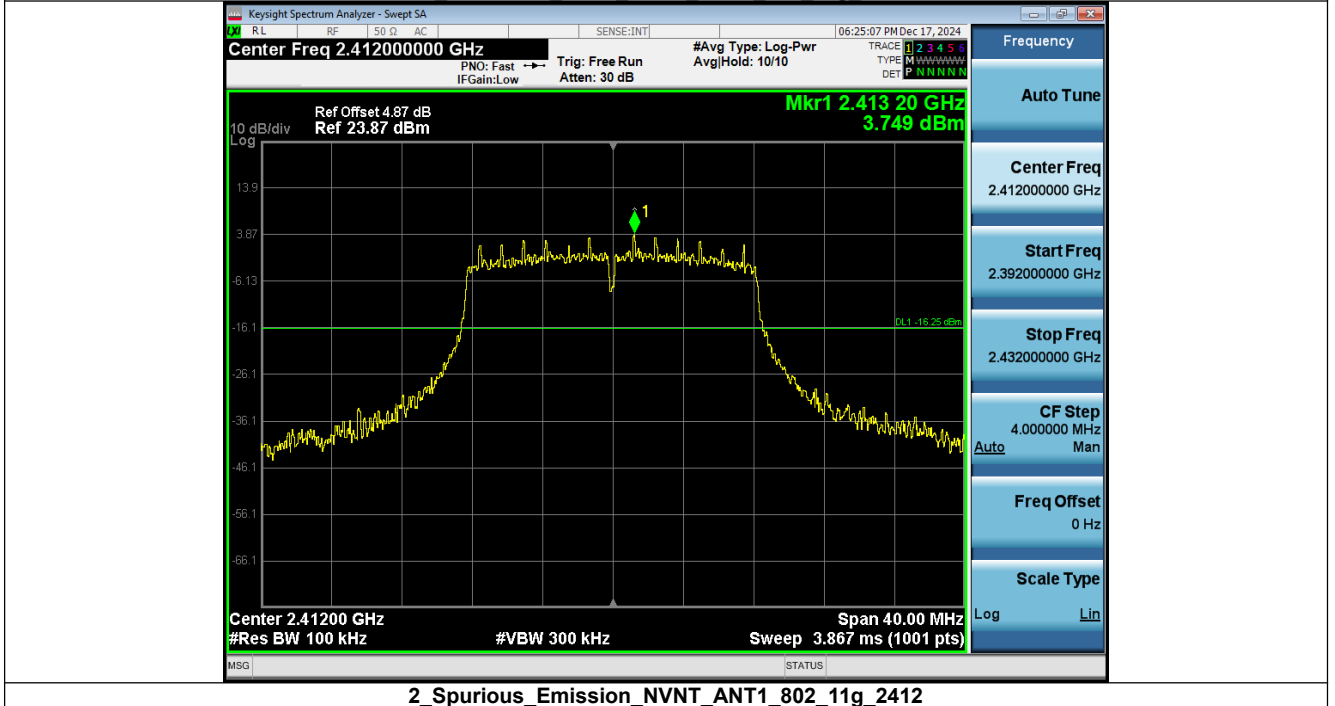
1 Reference Level NVNT_ANT1_802_11b_2462



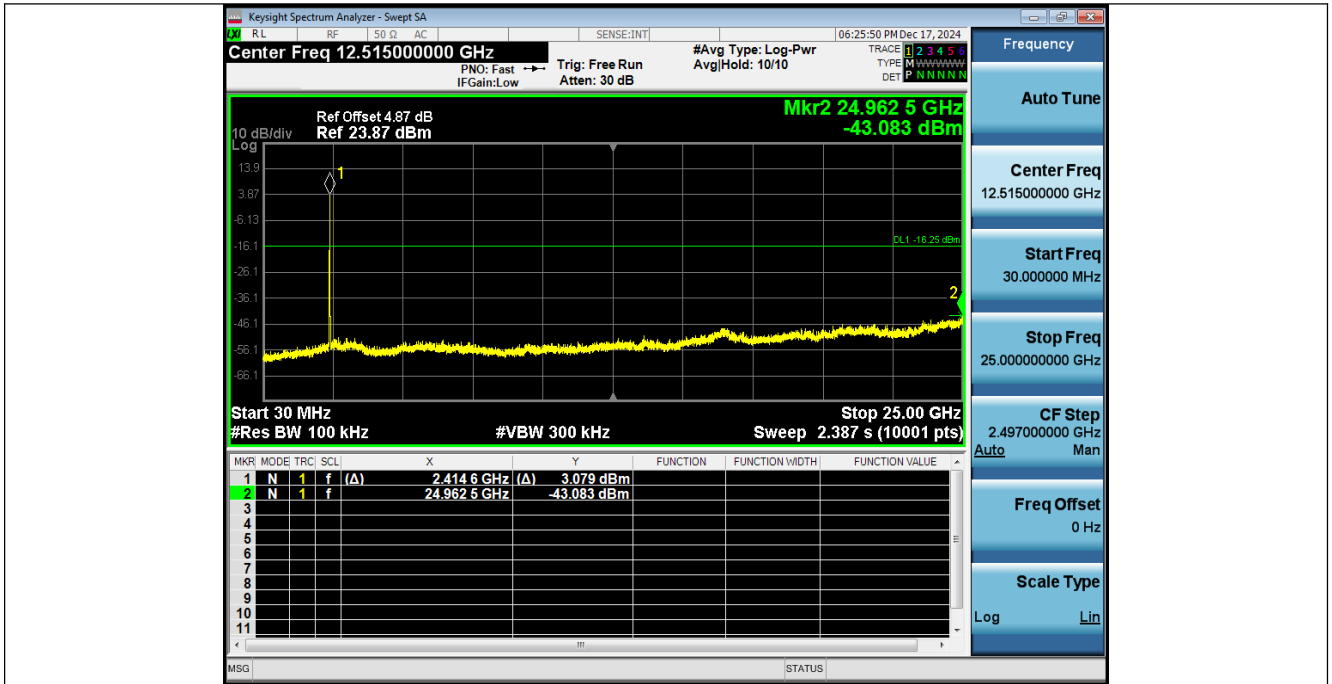
2 Spurious_Emission_NVNT_ANT1_802_11b_2462



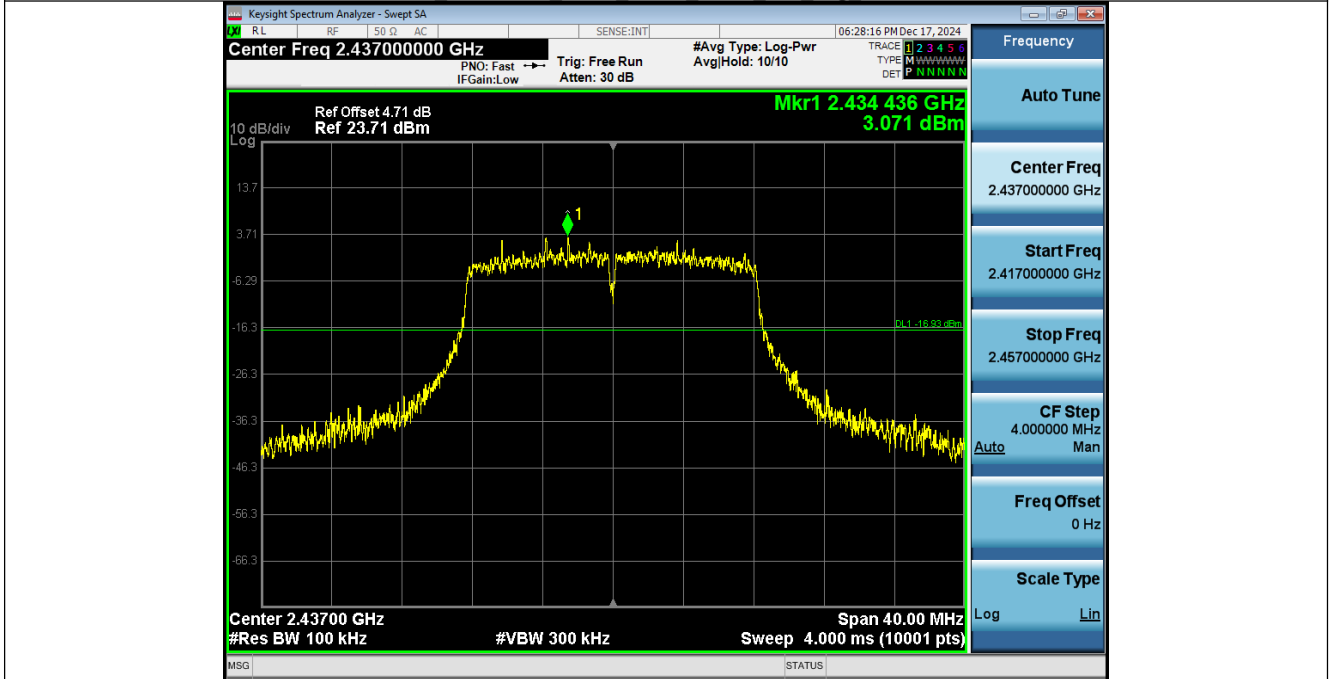
1 Reference Level NVNT_ANT1_802_11g_2412



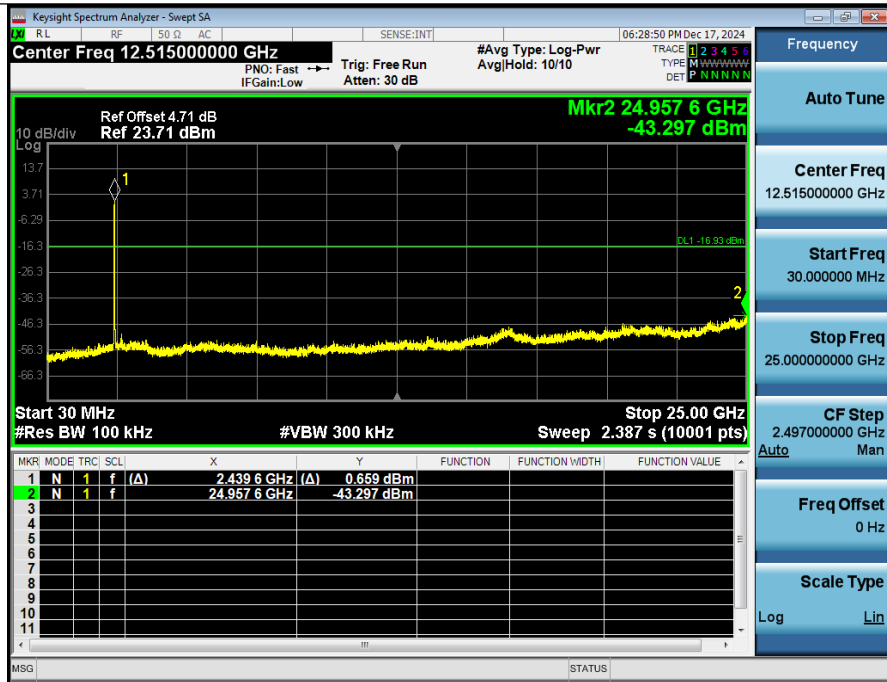
2 Spurious Emission NVNT_ANT1_802_11g_2412



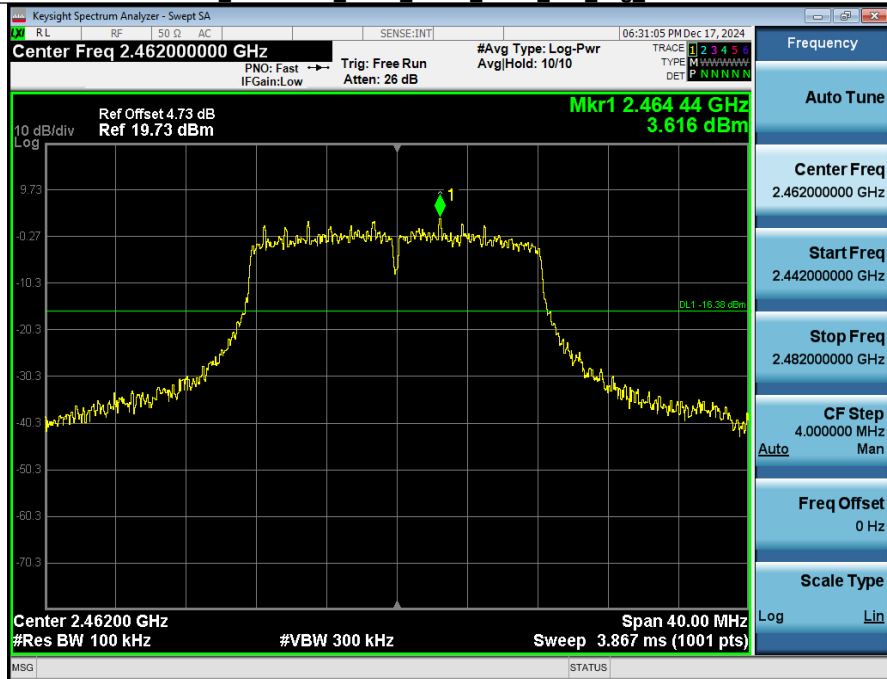
1 Reference Level NVNT_ANT1_802_11g_2437



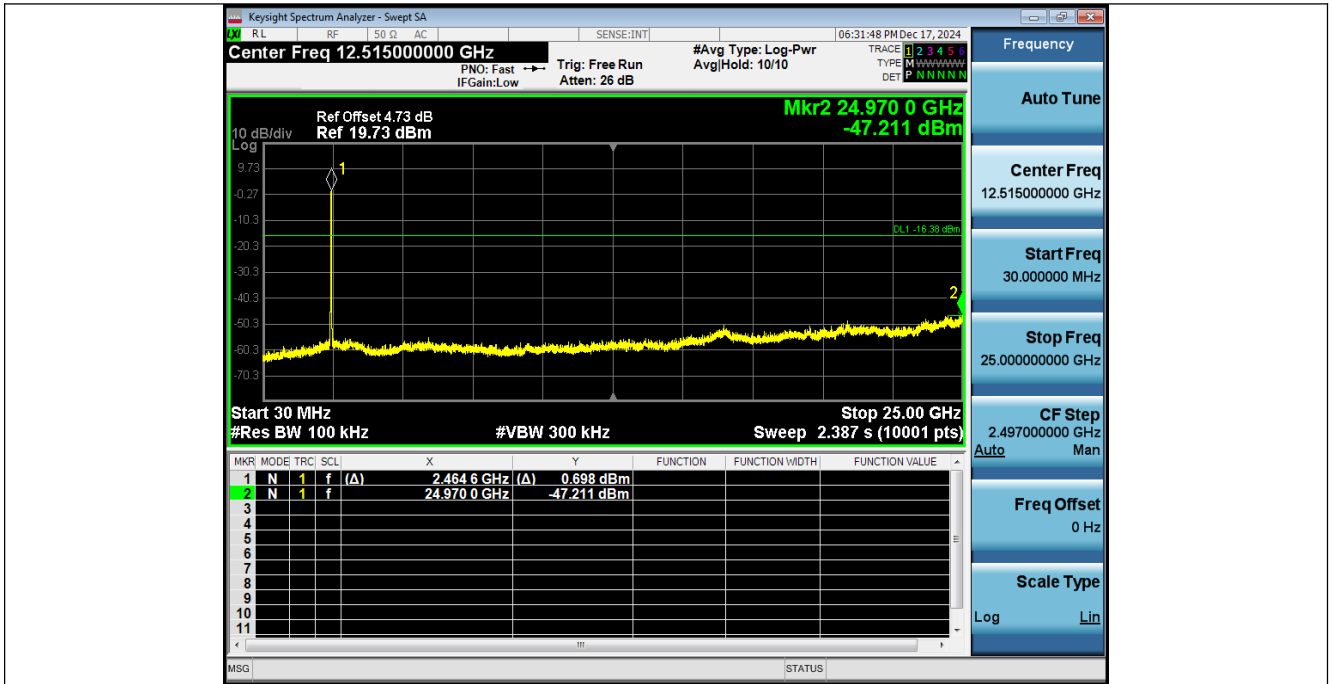
2 Spurious_Emission_NVNT_ANT1_802_11g_2437



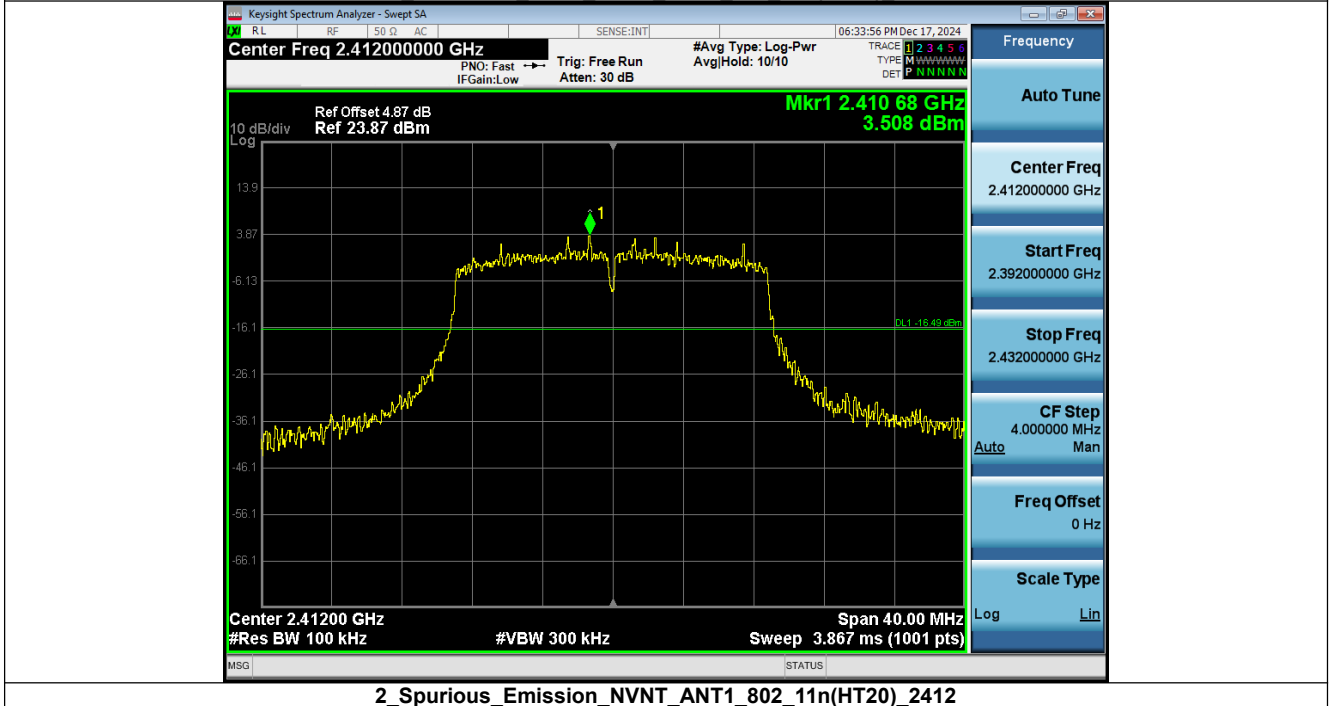
1 Reference Level NVNT_ANT1_802_11g_2462

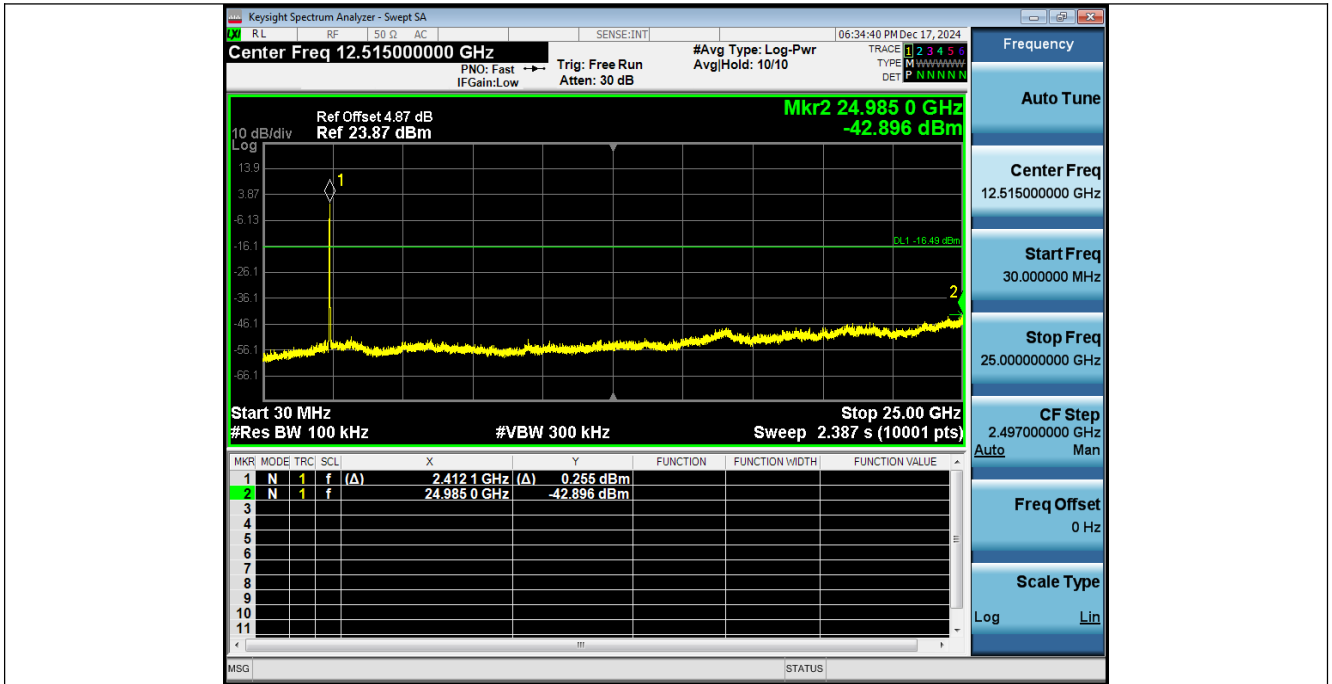


2 Spurious_Emission_NVNT_ANT1_802_11g_2462

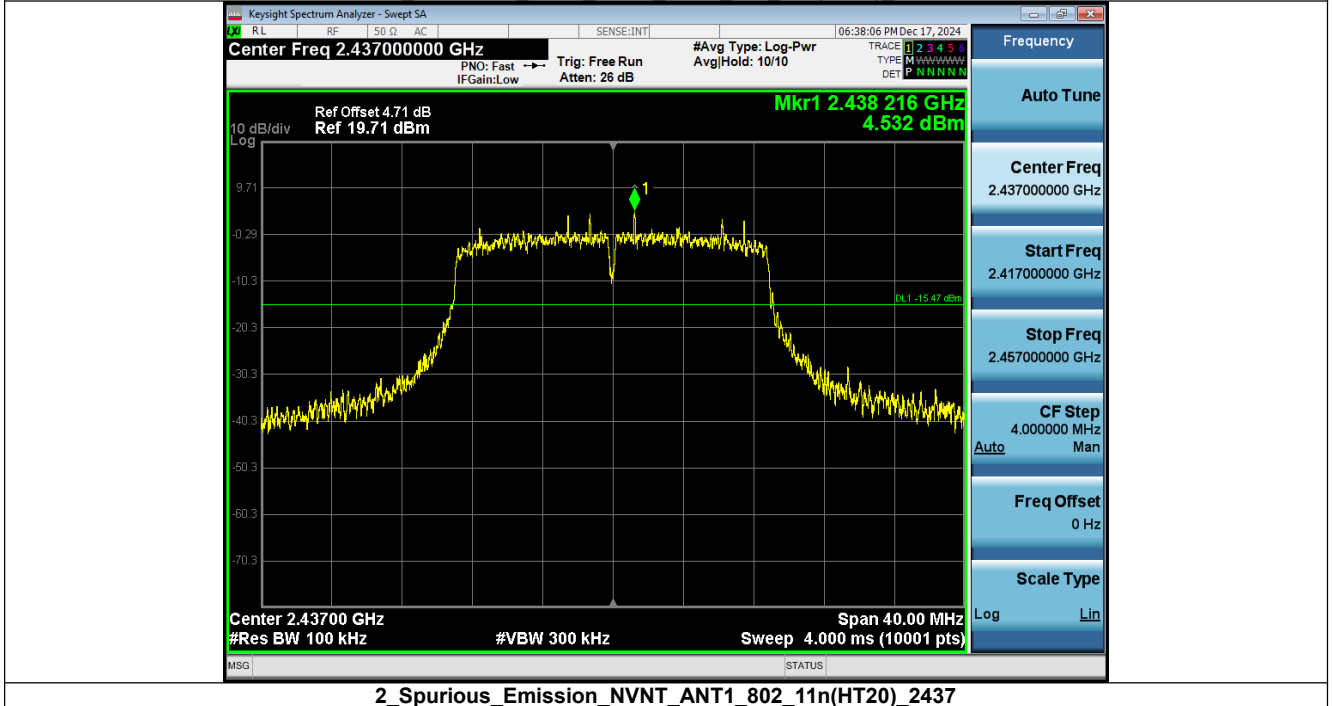


1 Reference Level NVNT_ANT1_802_11n(HT20)_2412

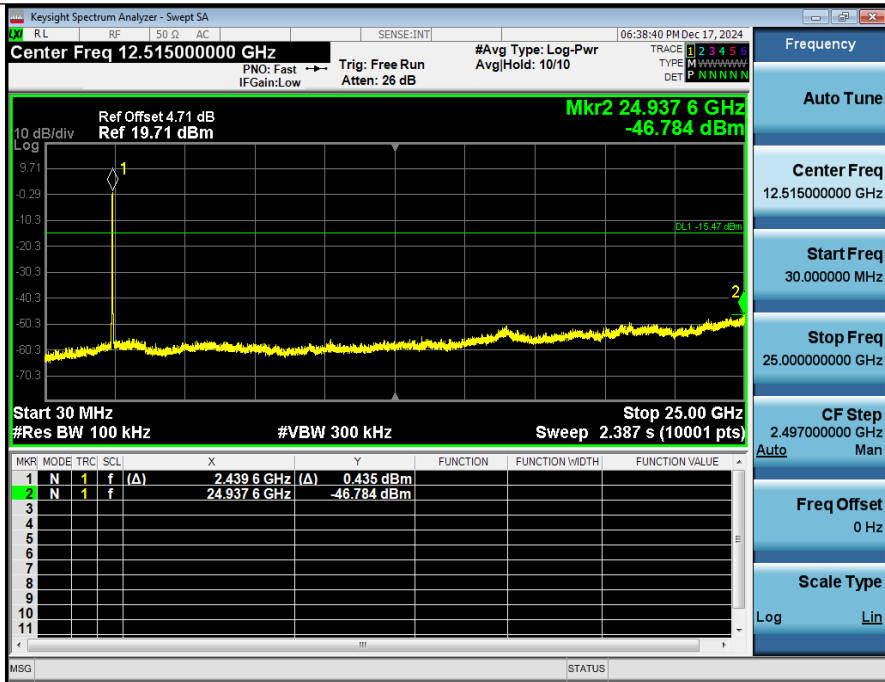




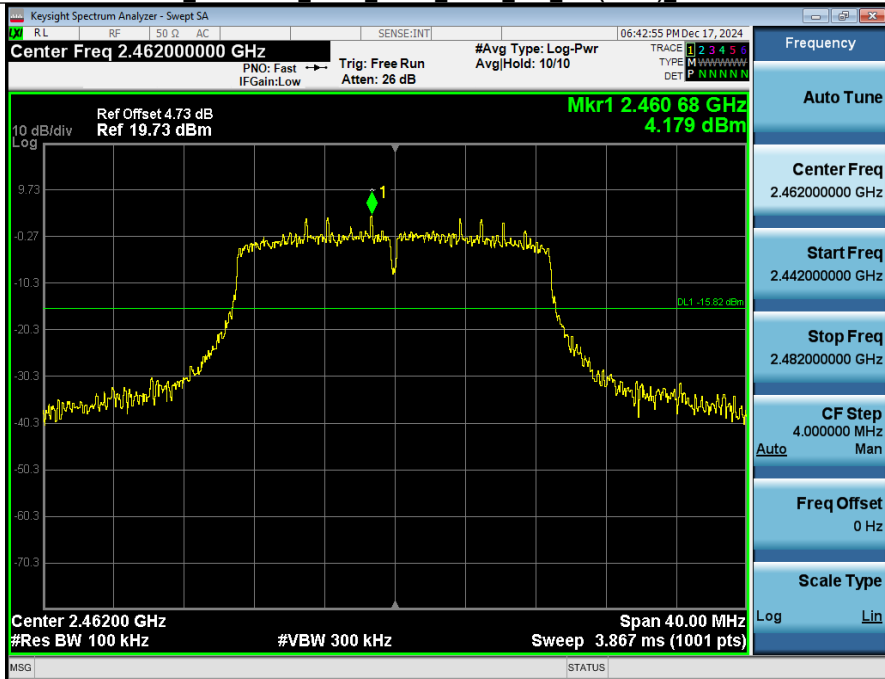
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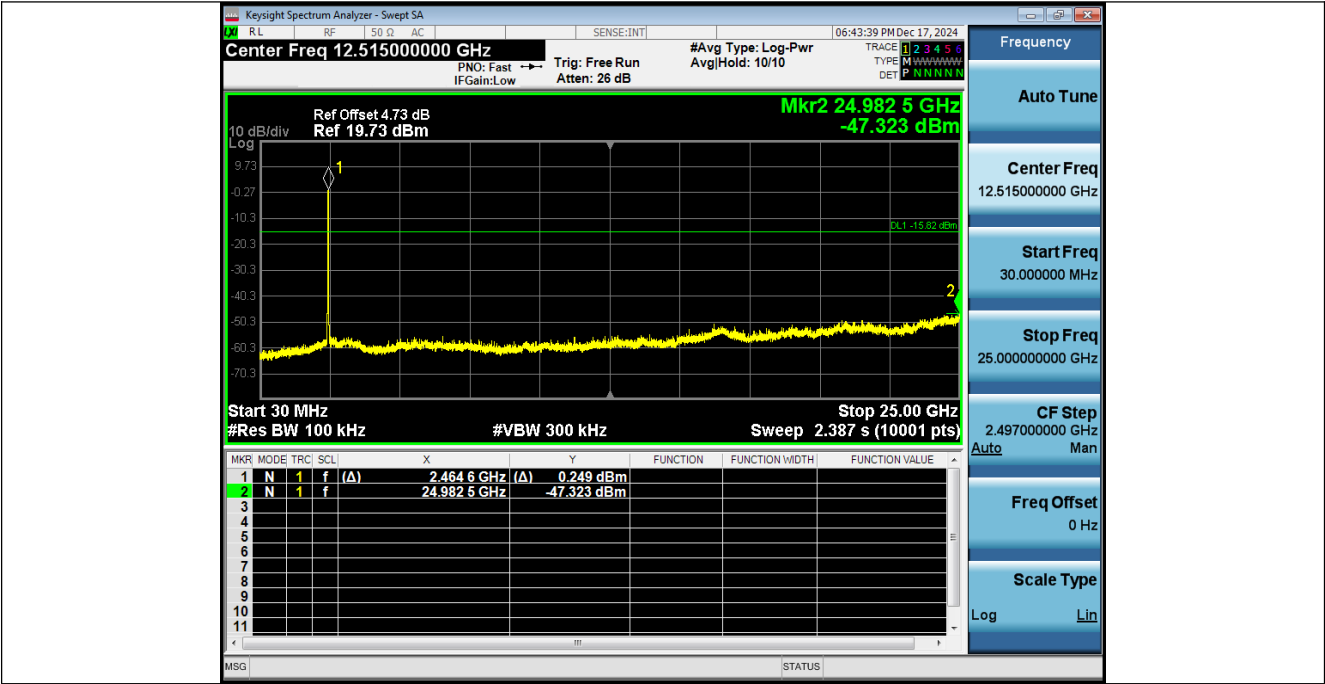
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



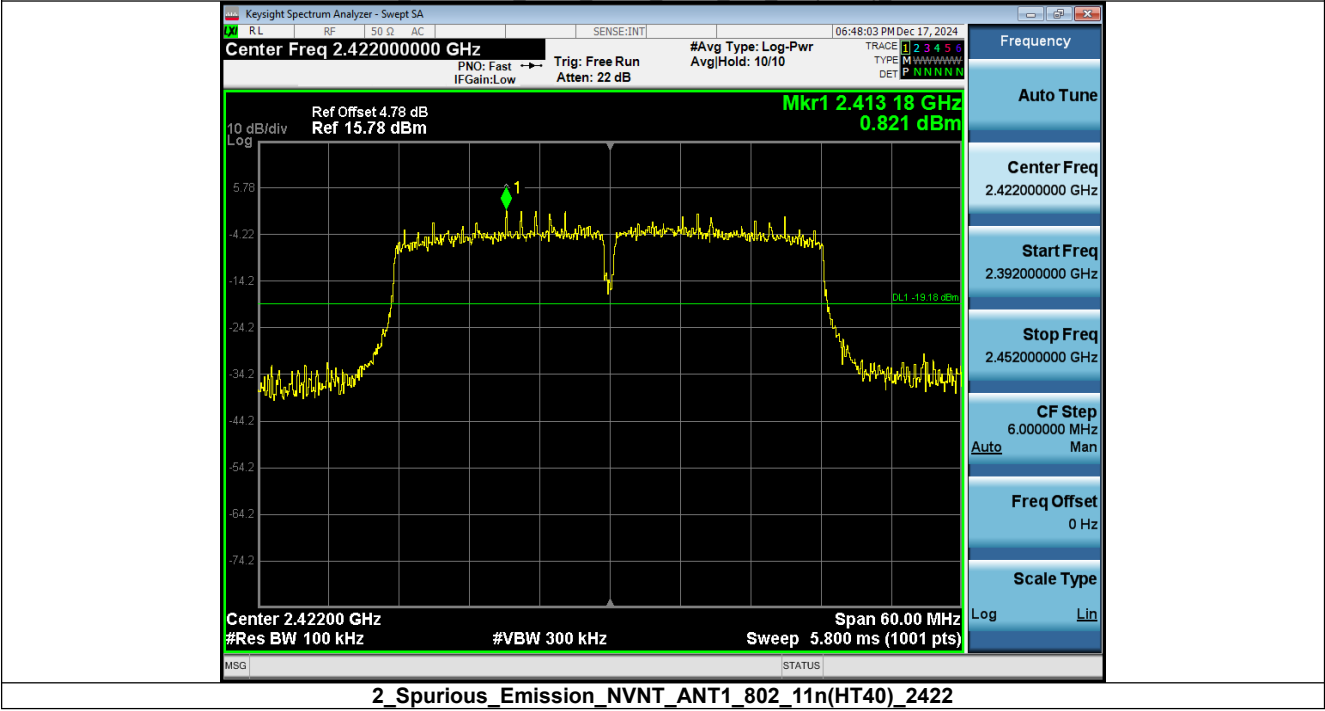
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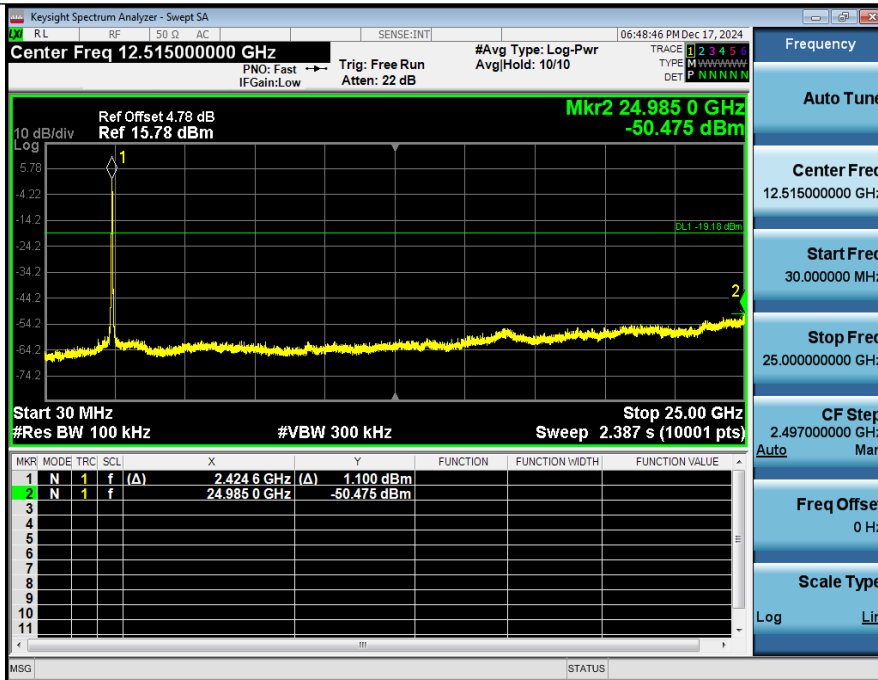
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2462



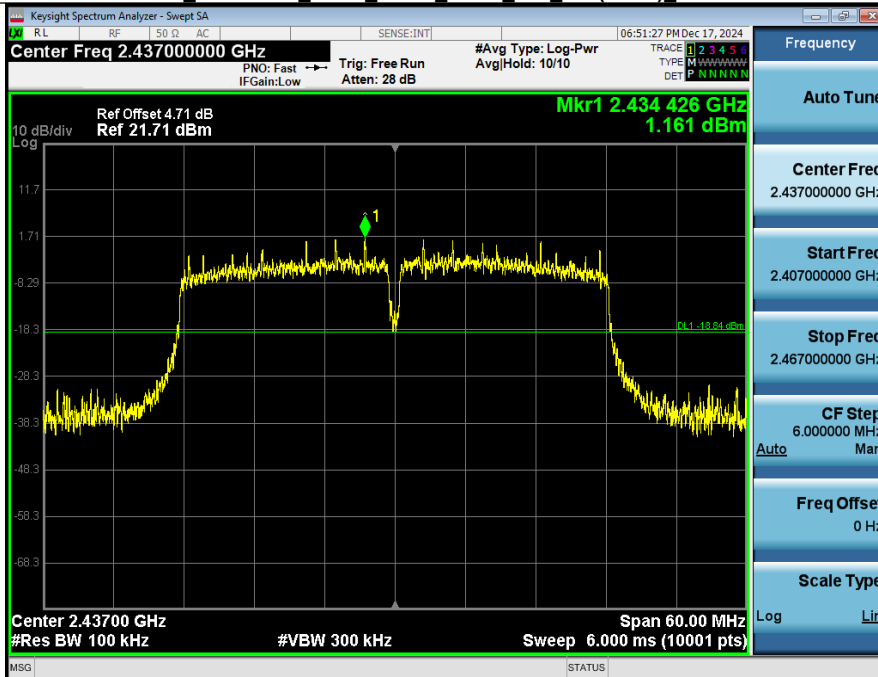
1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



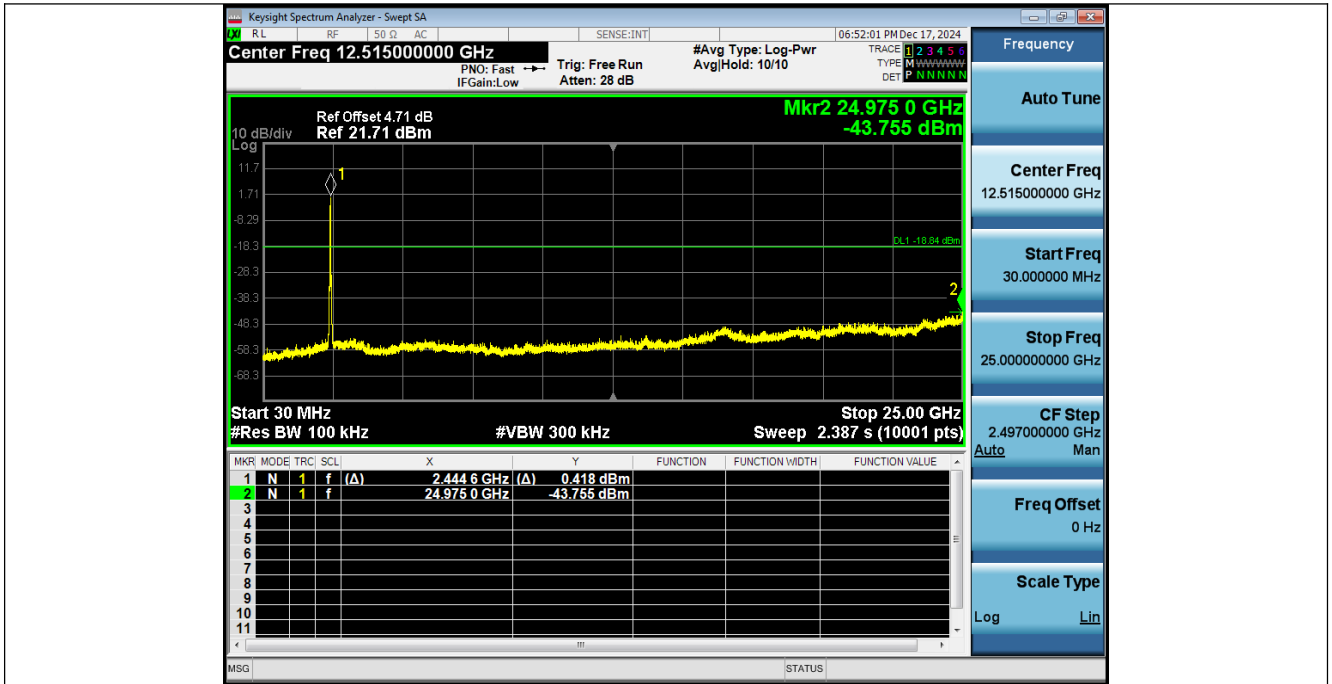
2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2422



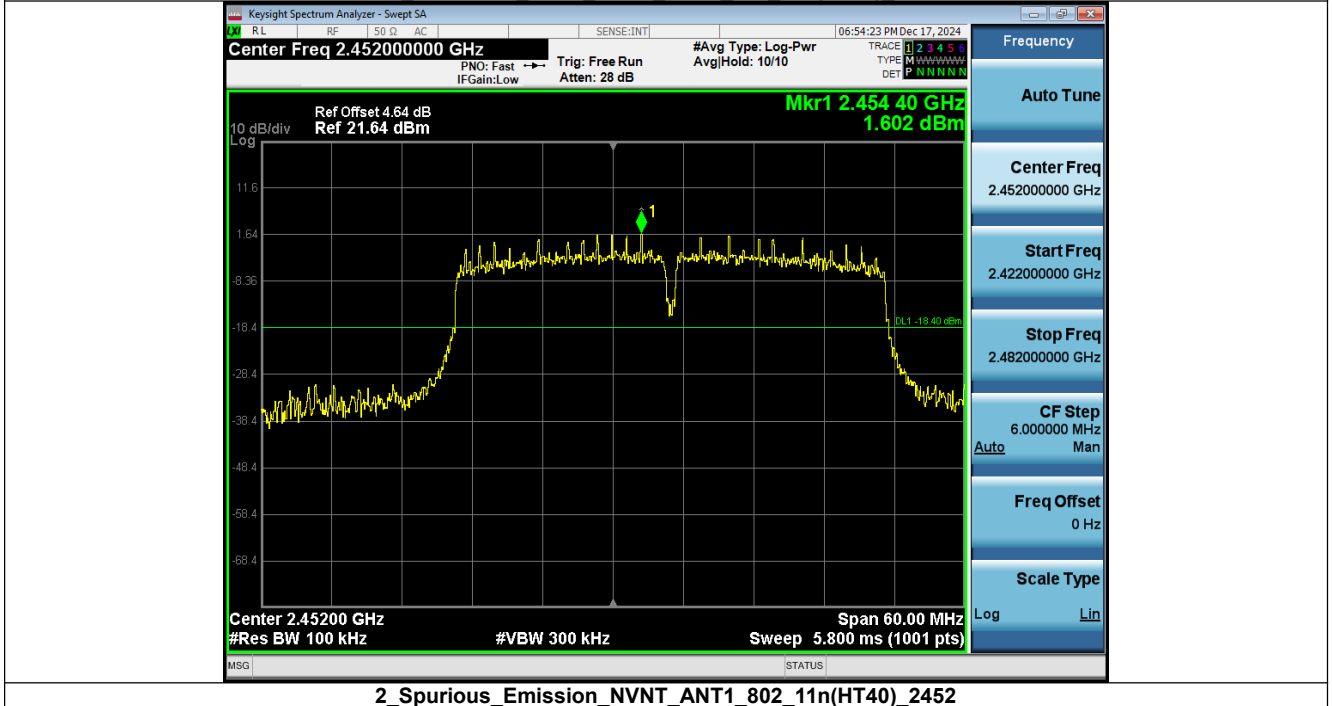
1 Reference Level NVNT_ANT1_802_11n(HT40)_2437



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

