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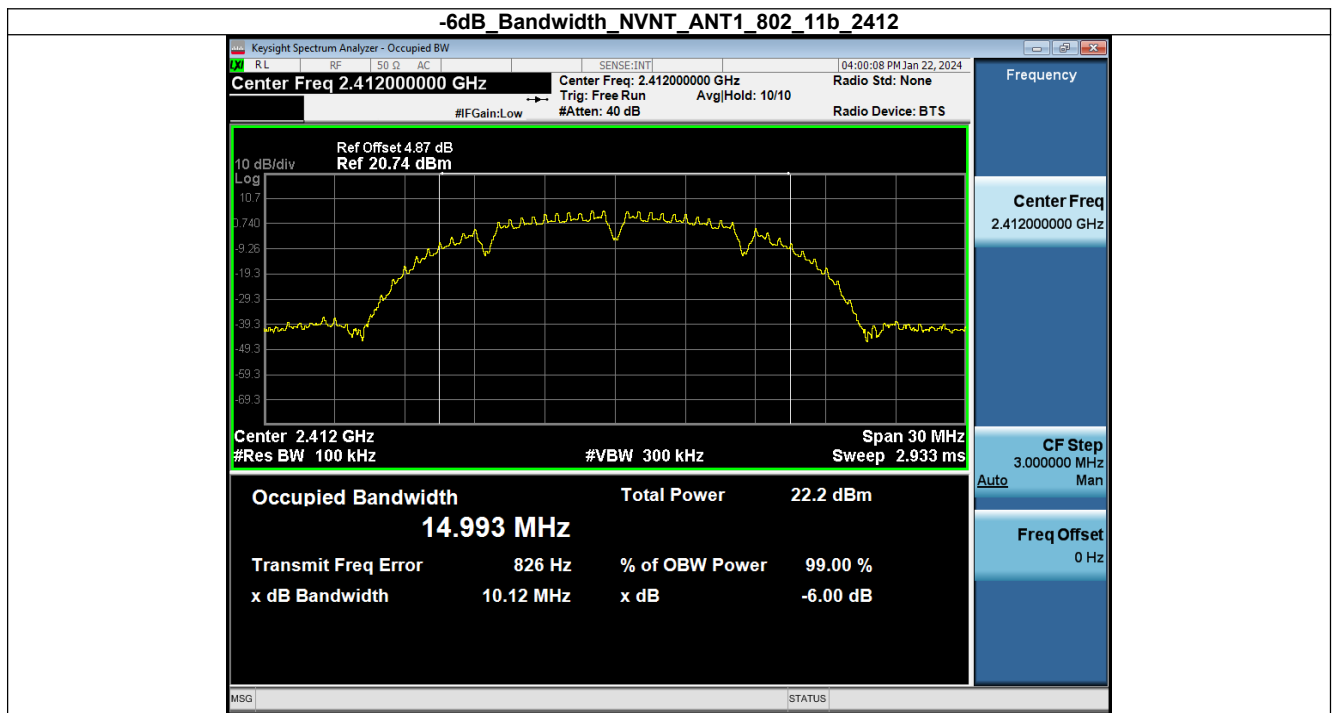
7. Spurious Emission38

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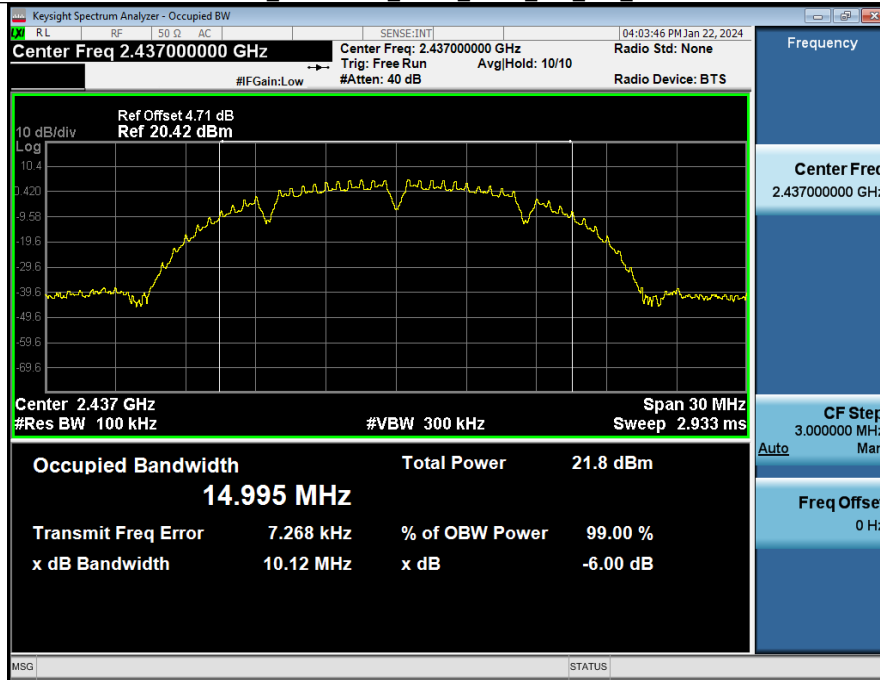
FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

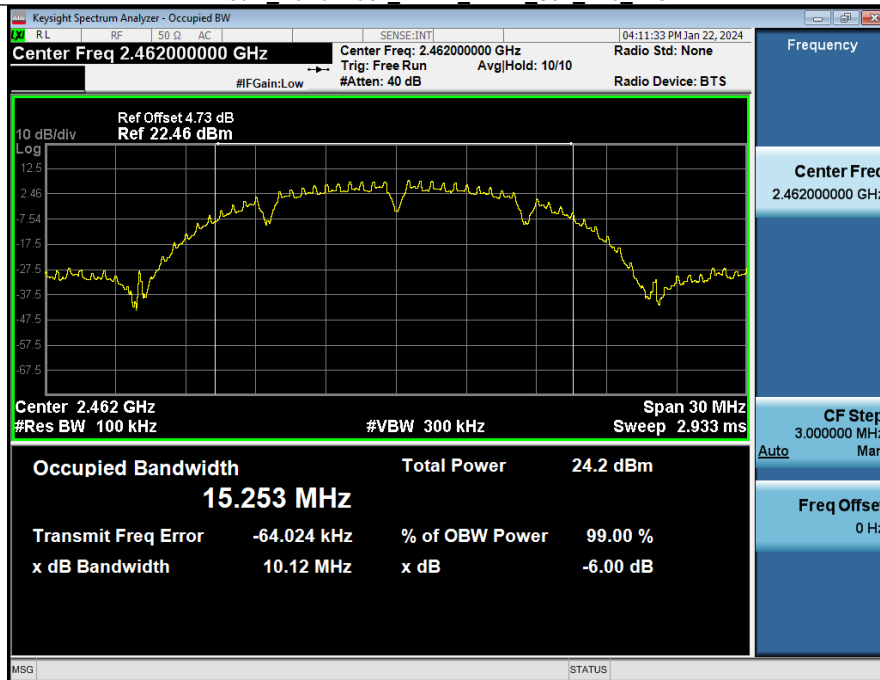
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.12	500	Pass
NVNT	ANT1	802.11b	2437.00	10.12	500	Pass
NVNT	ANT1	802.11b	2462.00	10.12	500	Pass
NVNT	ANT1	802.11g	2412.00	16.39	500	Pass
NVNT	ANT1	802.11g	2437.00	16.37	500	Pass
NVNT	ANT1	802.11g	2462.00	16.39	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.05	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.03	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.06	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.88	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.20	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.21	500	Pass



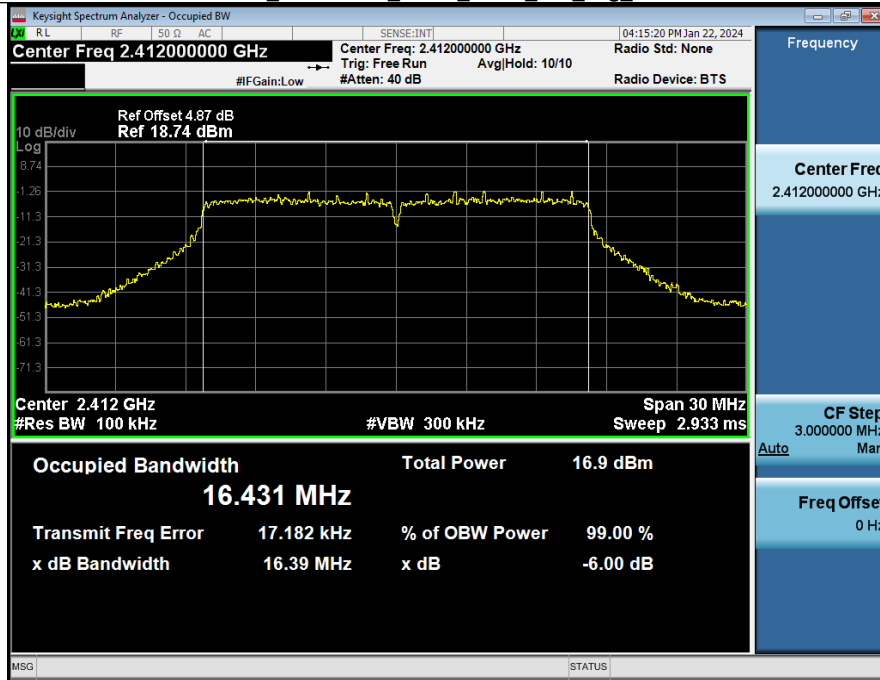
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



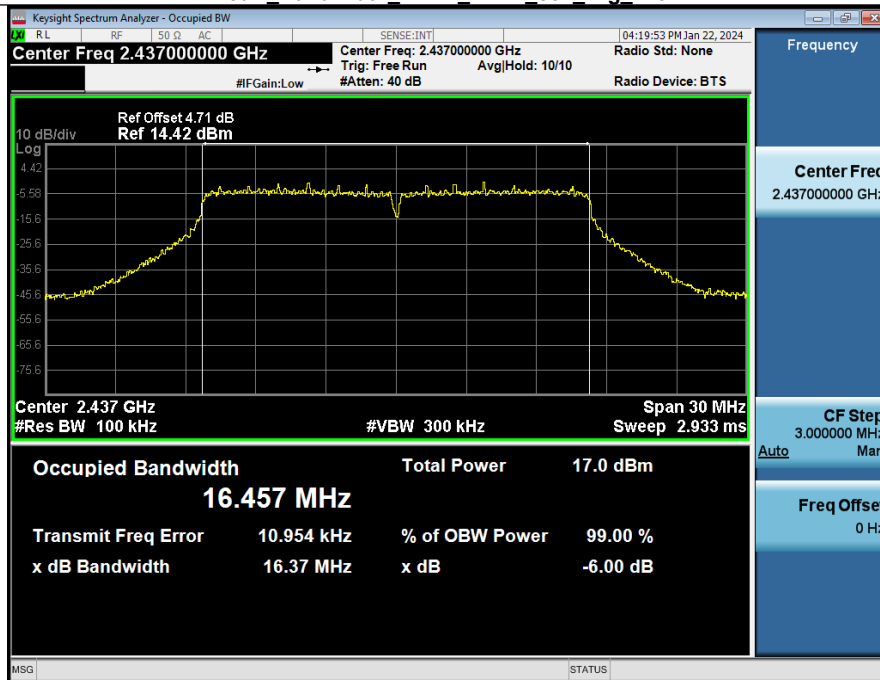
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



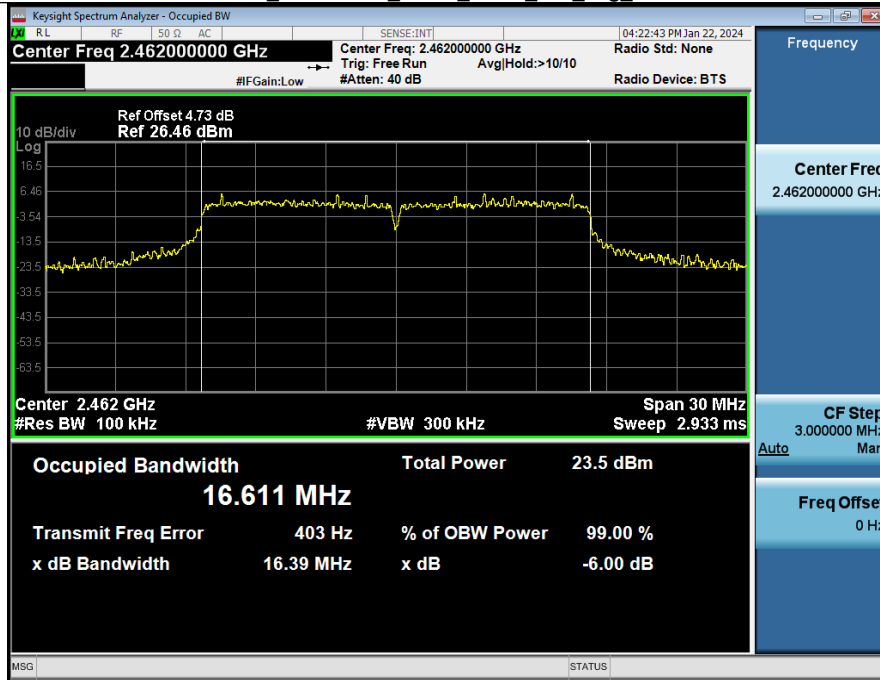
-6dB Bandwidth_NVNT_ANT1_802_11g_2412



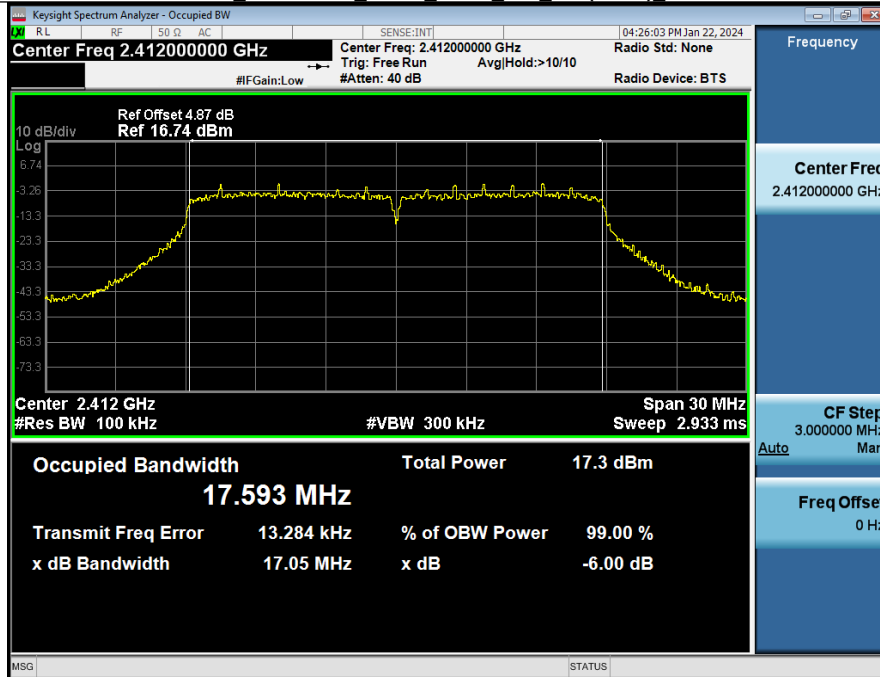
-6dB Bandwidth_NVNT_ANT1_802_11g_2437



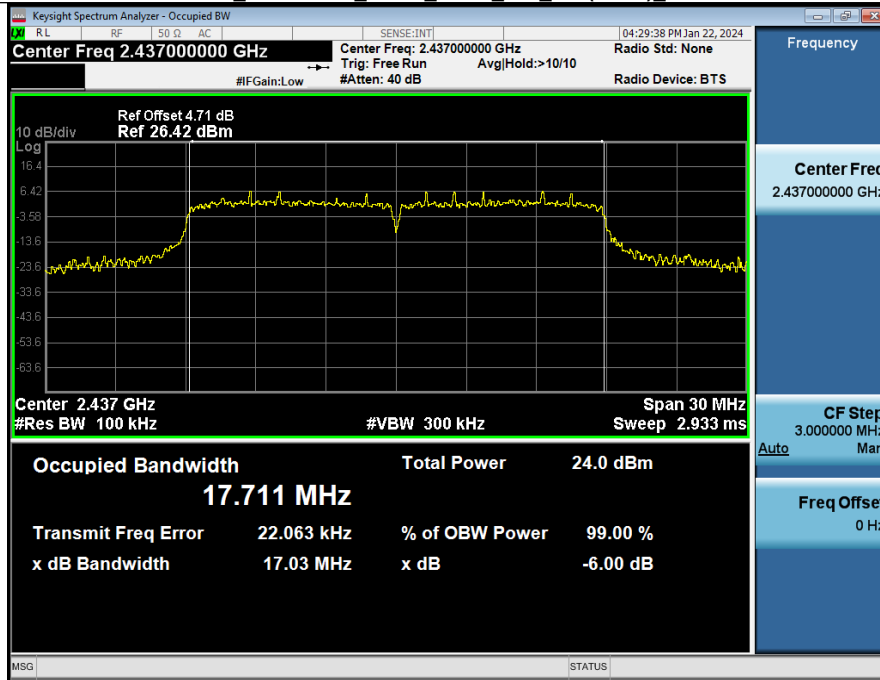
-6dB Bandwidth_NVNT_ANT1_802_11g_2462



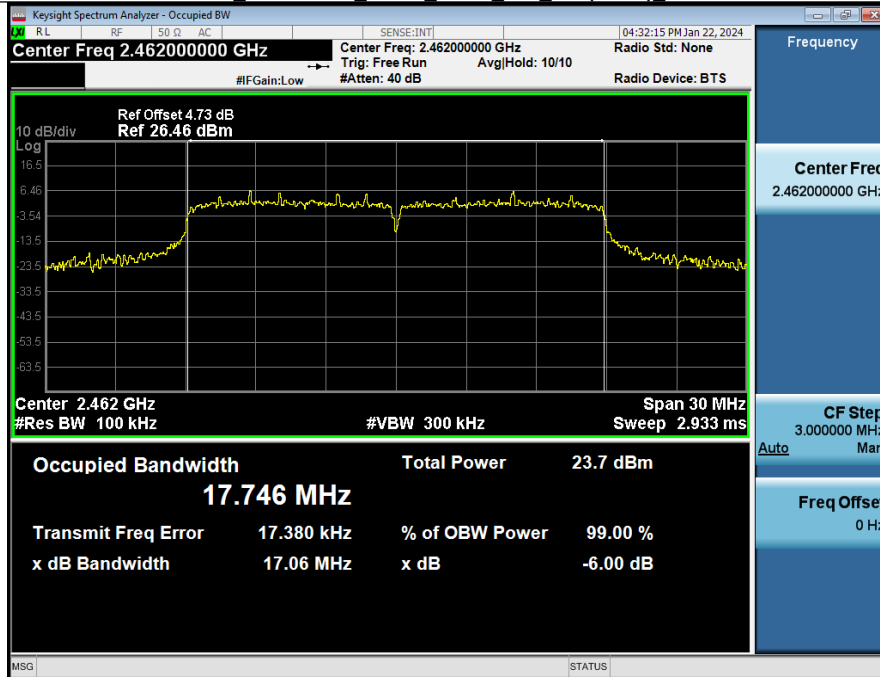
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



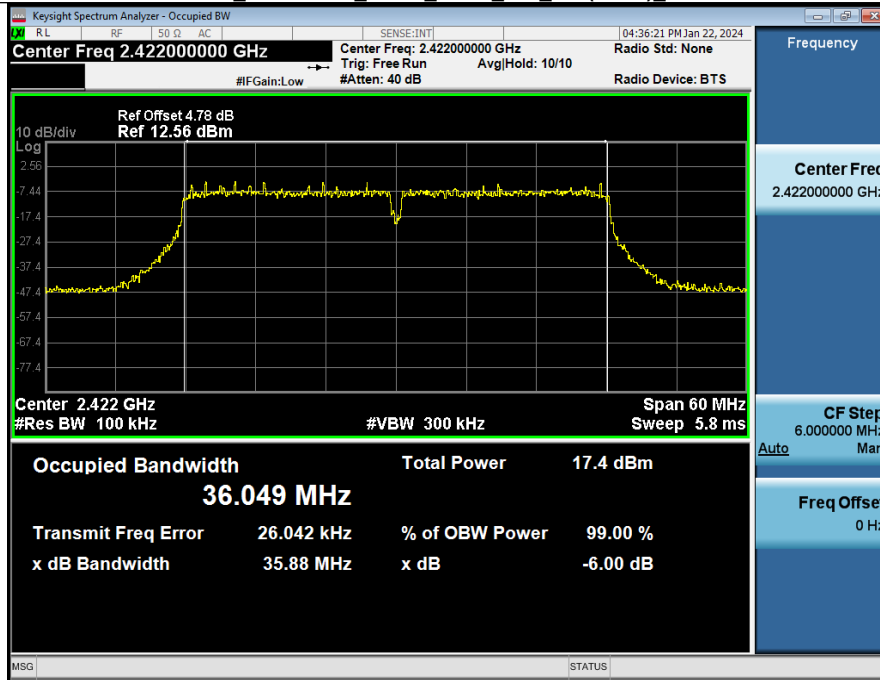
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



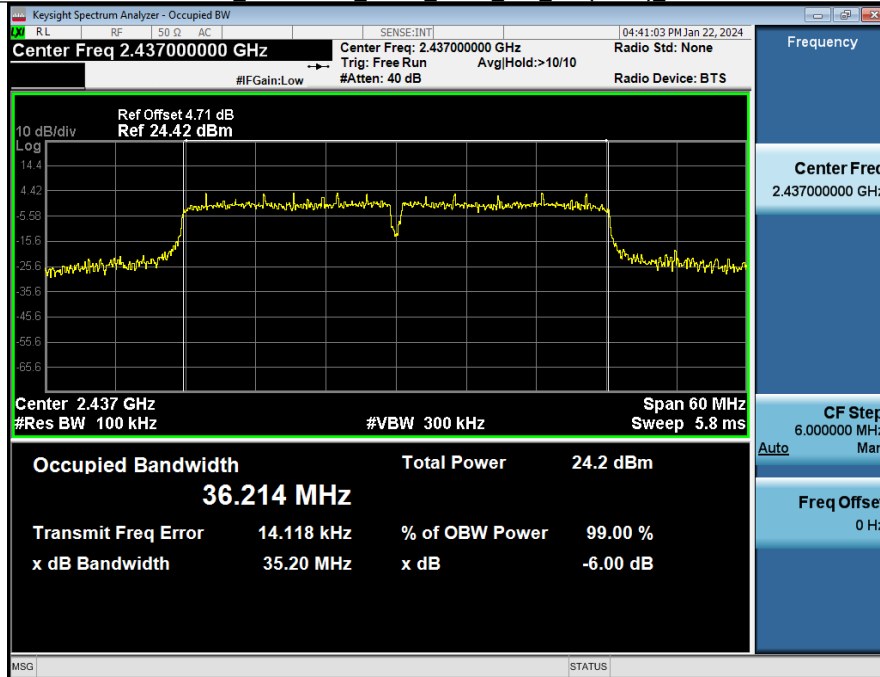
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



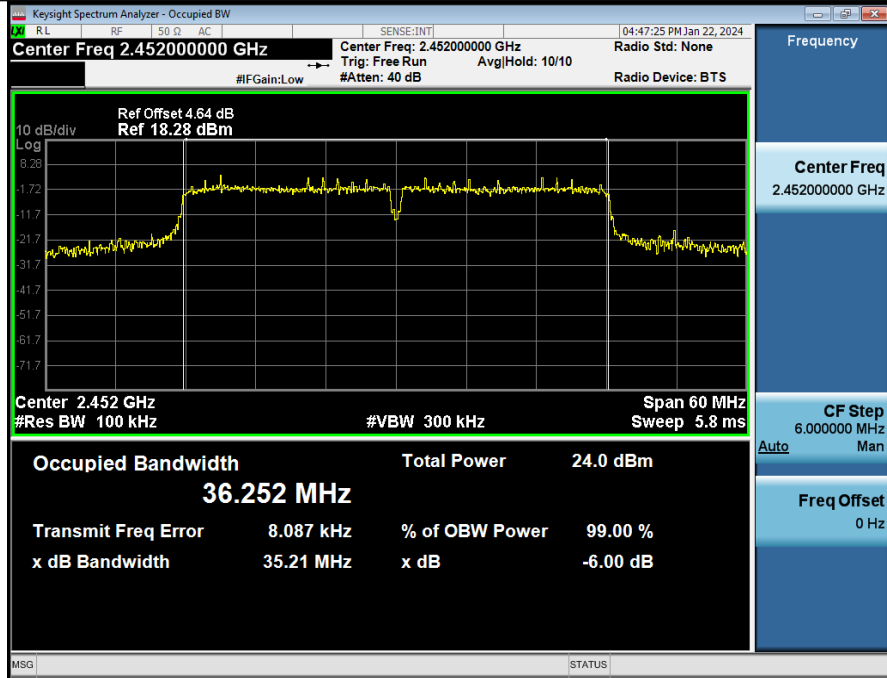
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

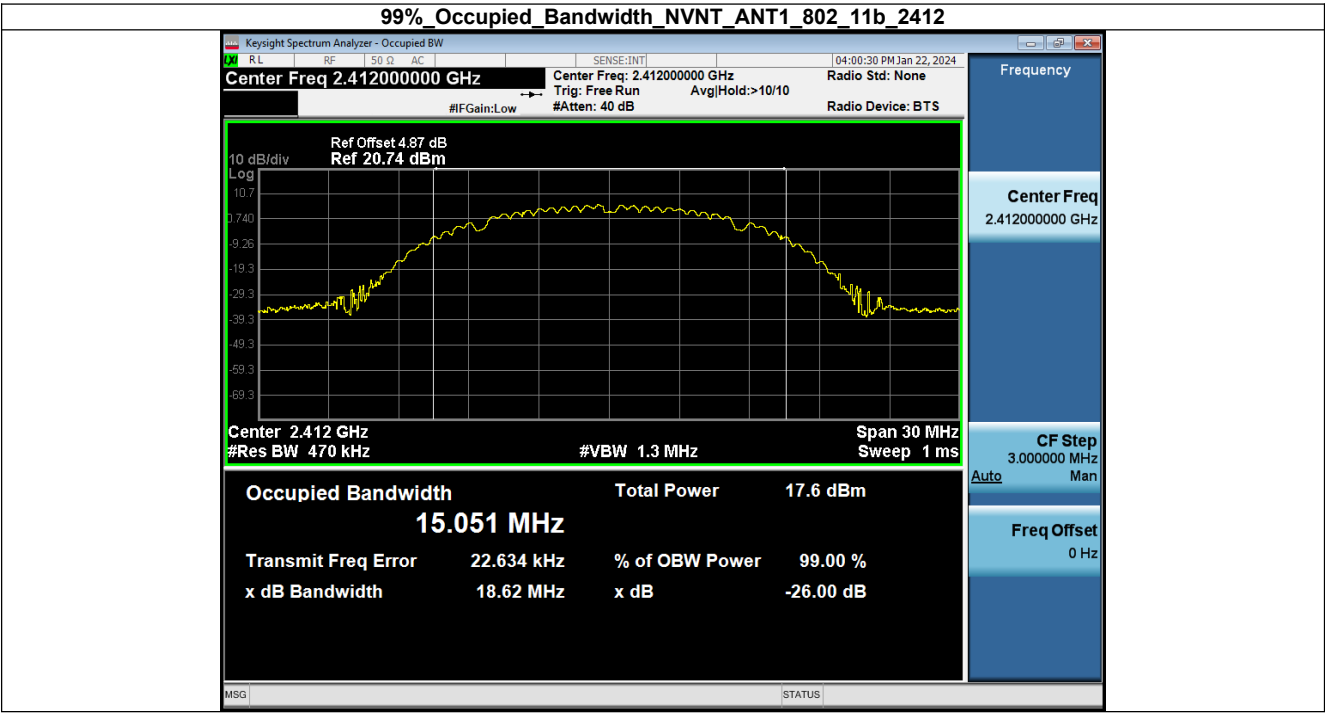


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

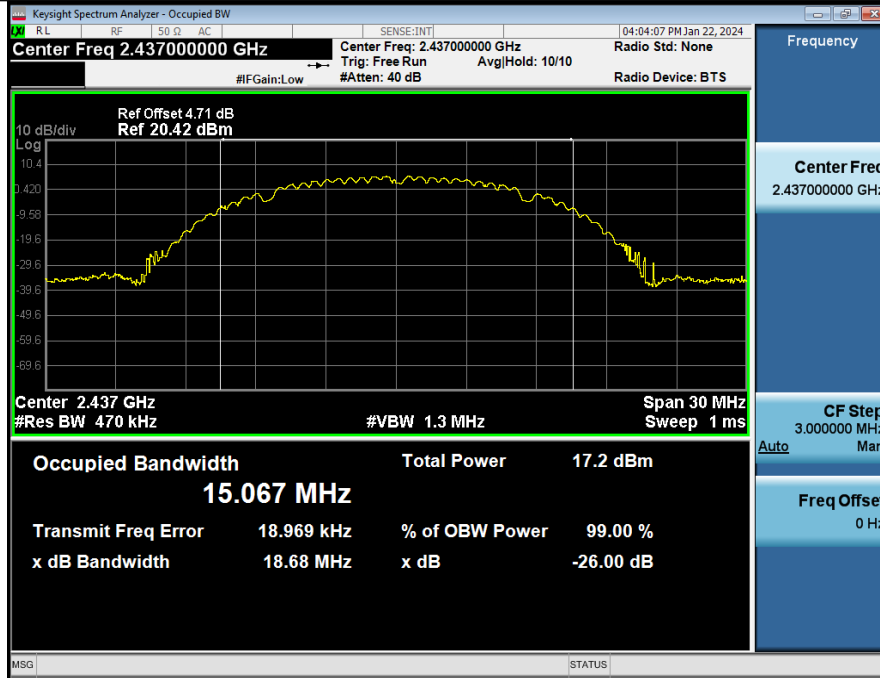


2. 99% Occupied Bandwidth

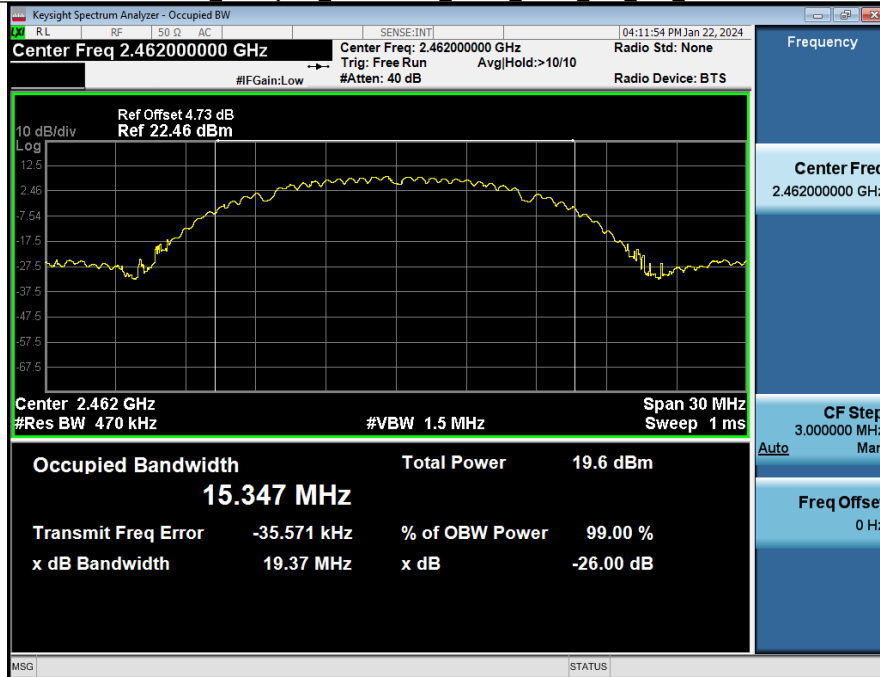
Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	15.051
NVNT	ANT1	802.11b	2437.00	15.067
NVNT	ANT1	802.11b	2462.00	15.347
NVNT	ANT1	802.11g	2412.00	17.112
NVNT	ANT1	802.11g	2437.00	17.179
NVNT	ANT1	802.11g	2462.00	18.130
NVNT	ANT1	802.11n(HT20)	2412.00	18.198
NVNT	ANT1	802.11n(HT20)	2437.00	18.512
NVNT	ANT1	802.11n(HT20)	2462.00	18.837
NVNT	ANT1	802.11n(HT40)	2422.00	36.459
NVNT	ANT1	802.11n(HT40)	2437.00	37.148
NVNT	ANT1	802.11n(HT40)	2452.00	37.134



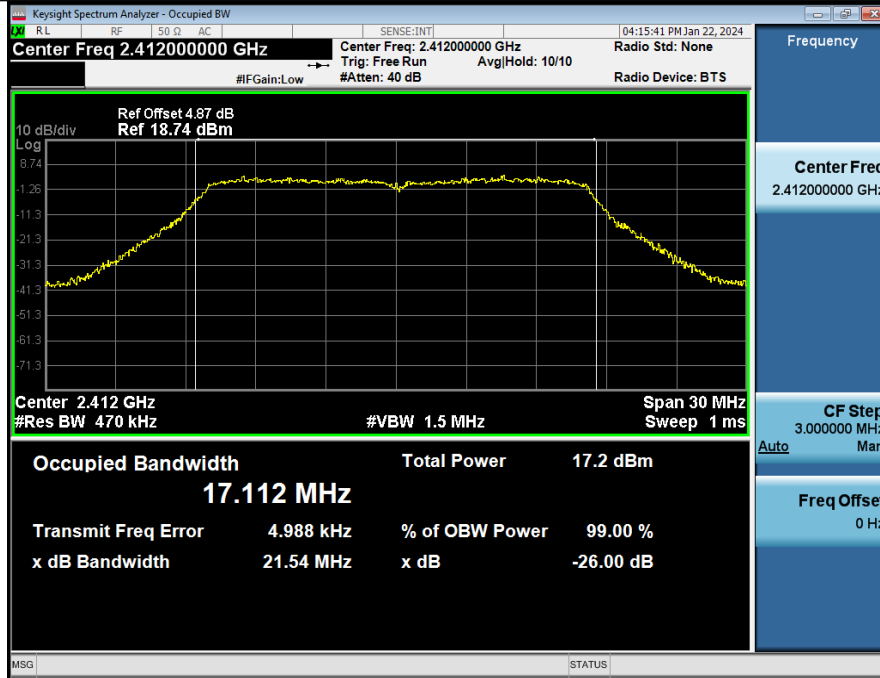
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



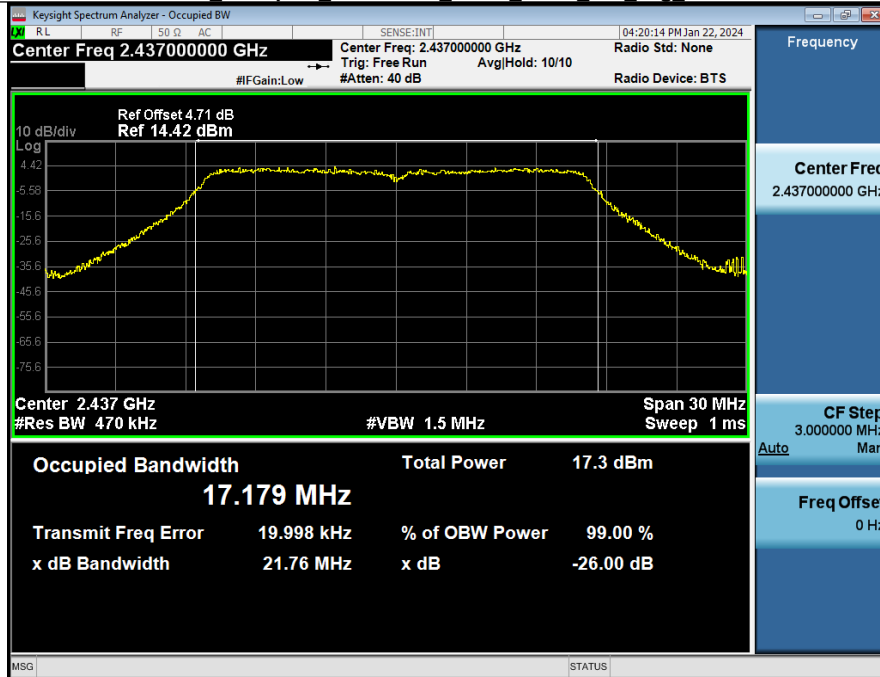
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



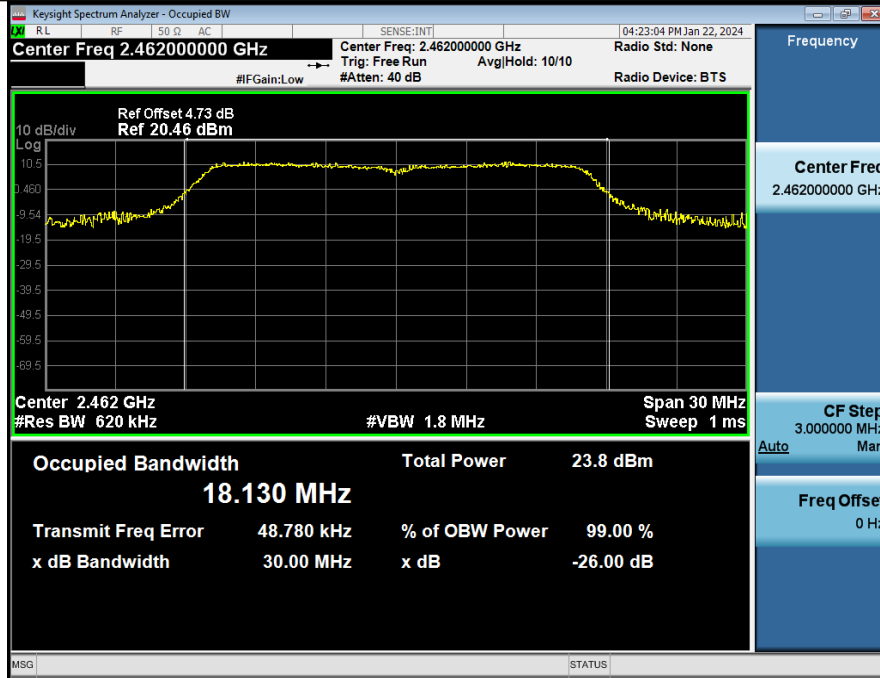
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



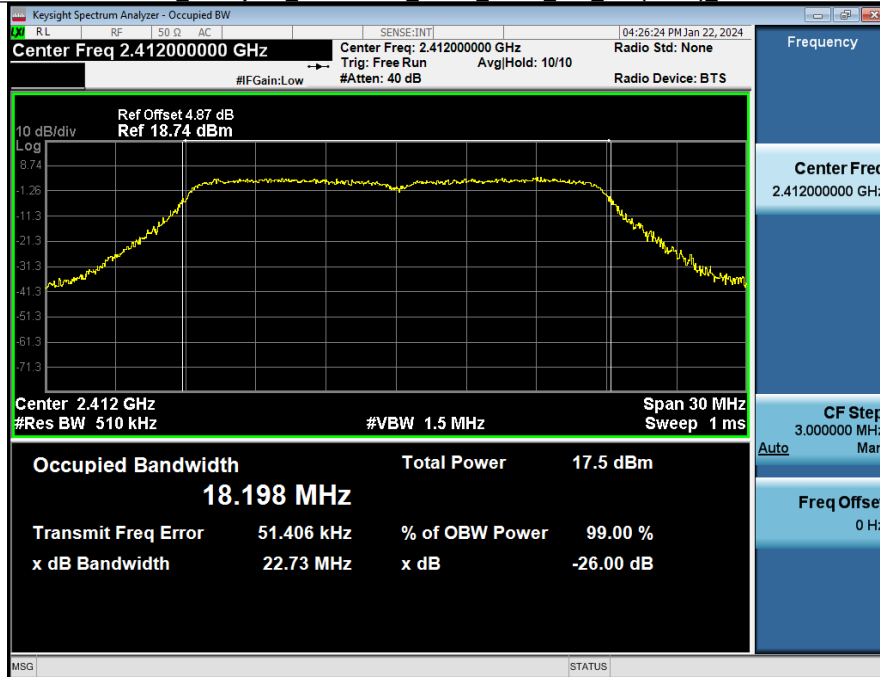
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437



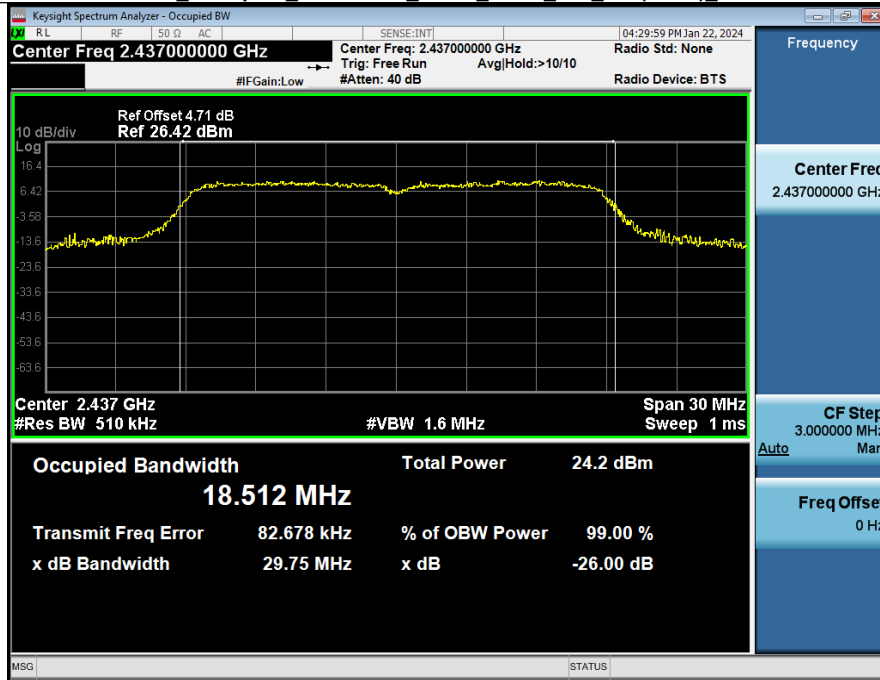
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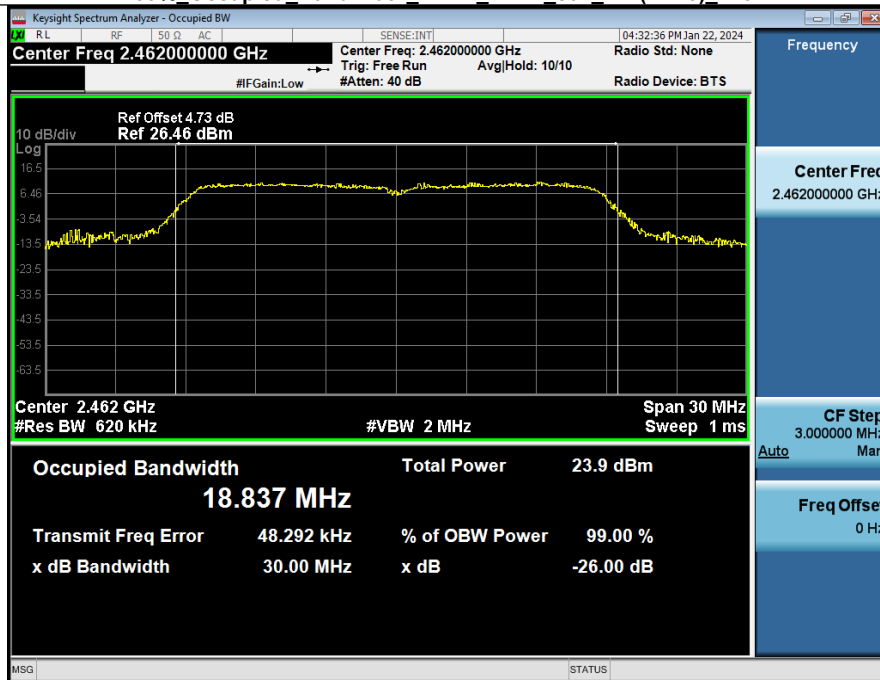
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412



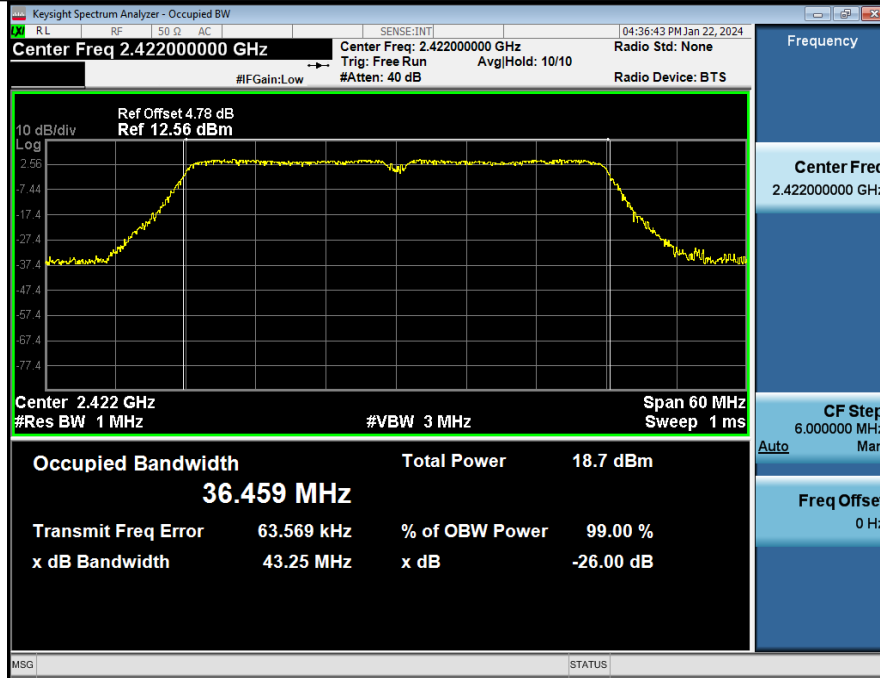
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2437



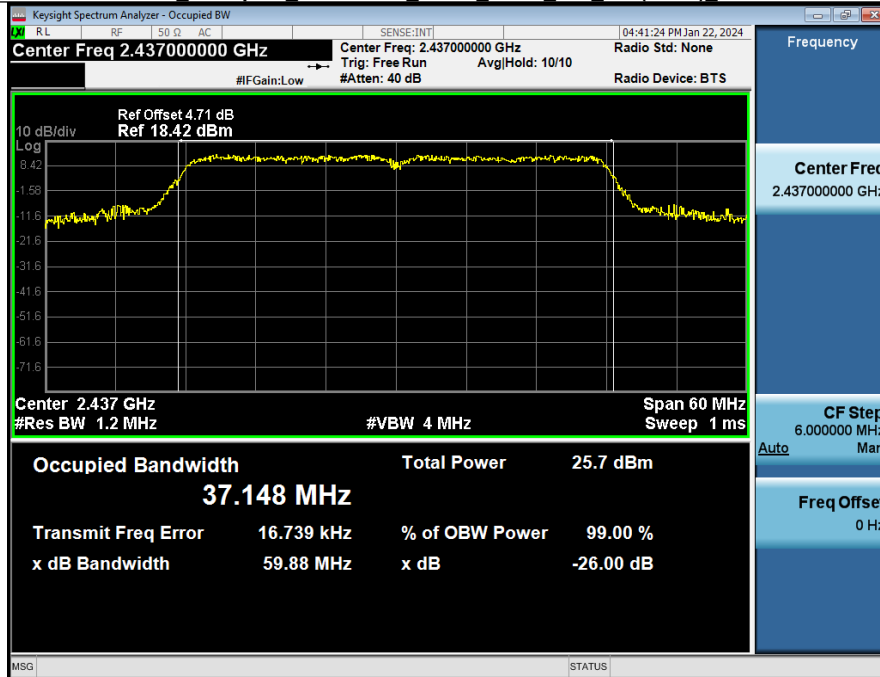
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2462

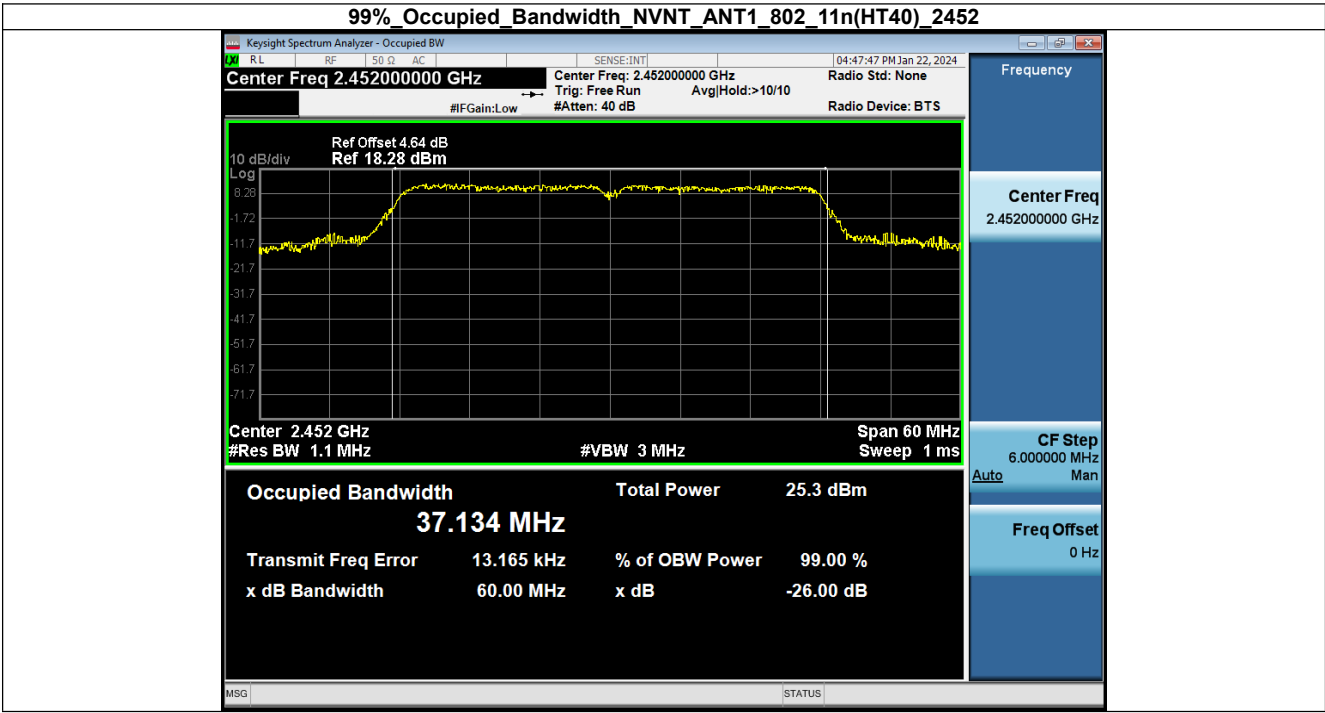


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2422



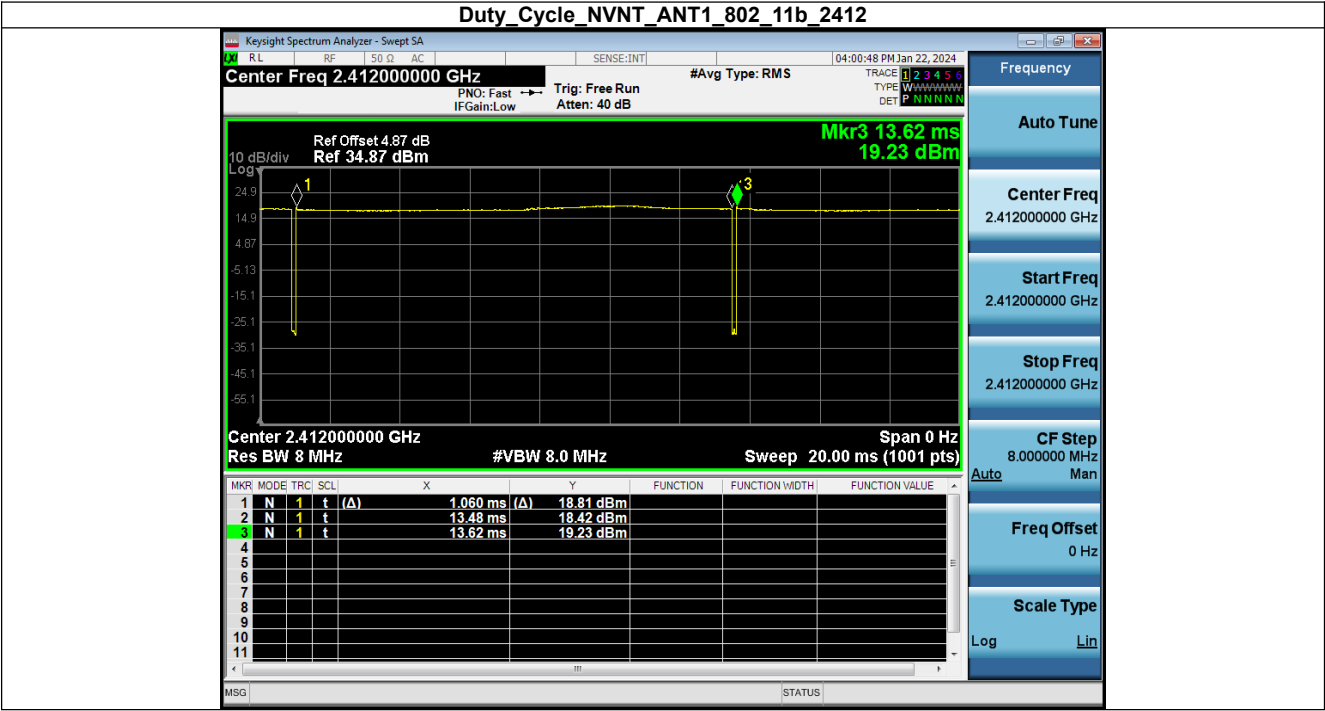
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2437



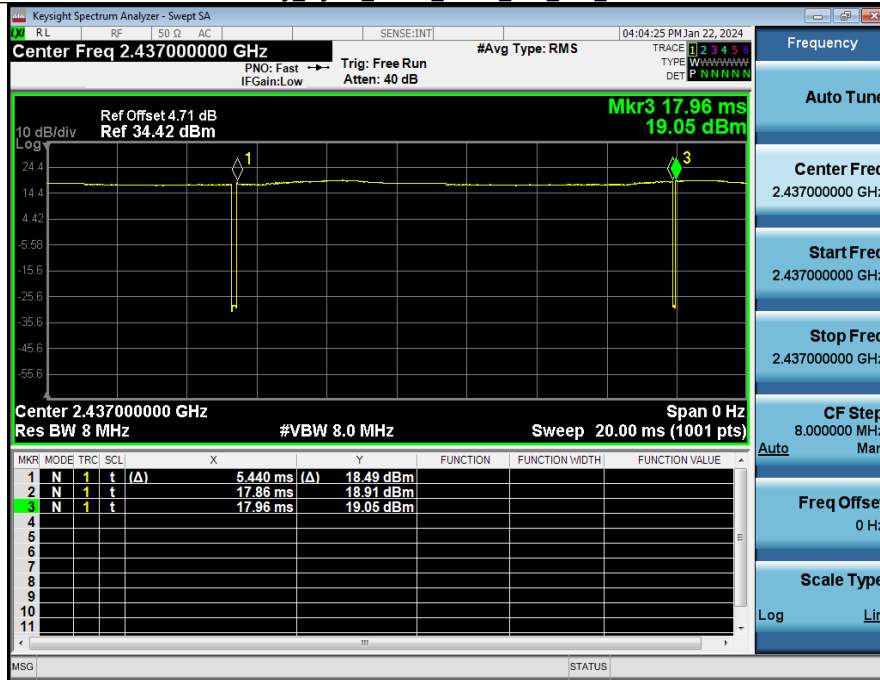


3. Duty Cycle

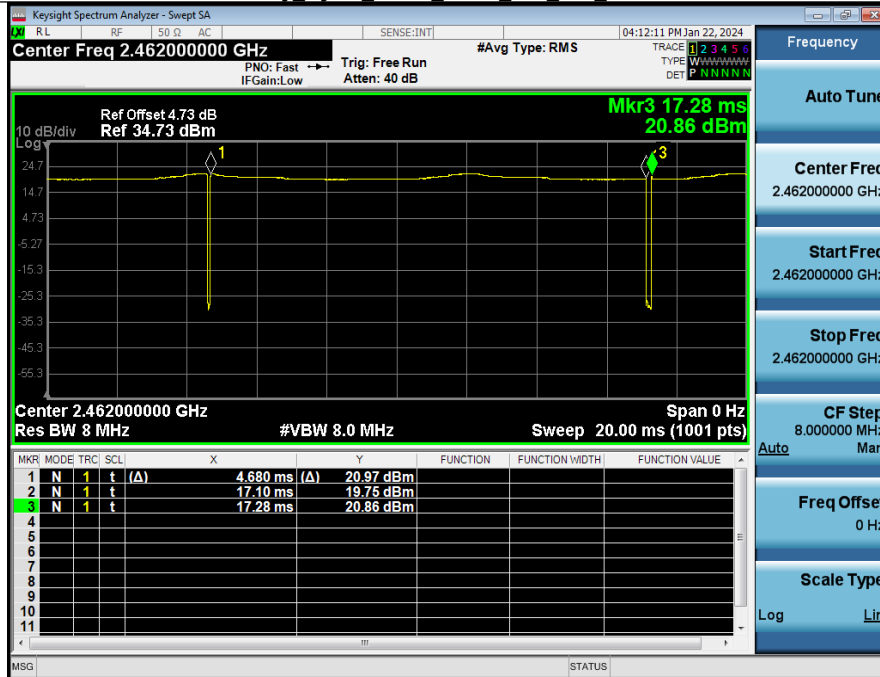
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.04	0.00
NVNT	ANT1	802.11b	2437.00	99.36	0.00
NVNT	ANT1	802.11b	2462.00	98.73	0.00
NVNT	ANT1	802.11g	2412.00	20.68	6.84
NVNT	ANT1	802.11g	2437.00	20.72	6.84
NVNT	ANT1	802.11g	2462.00	20.84	6.81
NVNT	ANT1	802.11n(HT20)	2412.00	19.56	7.09
NVNT	ANT1	802.11n(HT20)	2437.00	18.97	7.22
NVNT	ANT1	802.11n(HT20)	2462.00	19.76	7.04
NVNT	ANT1	802.11n(HT40)	2422.00	9.63	10.16
NVNT	ANT1	802.11n(HT40)	2437.00	9.38	10.28
NVNT	ANT1	802.11n(HT40)	2452.00	9.42	10.26



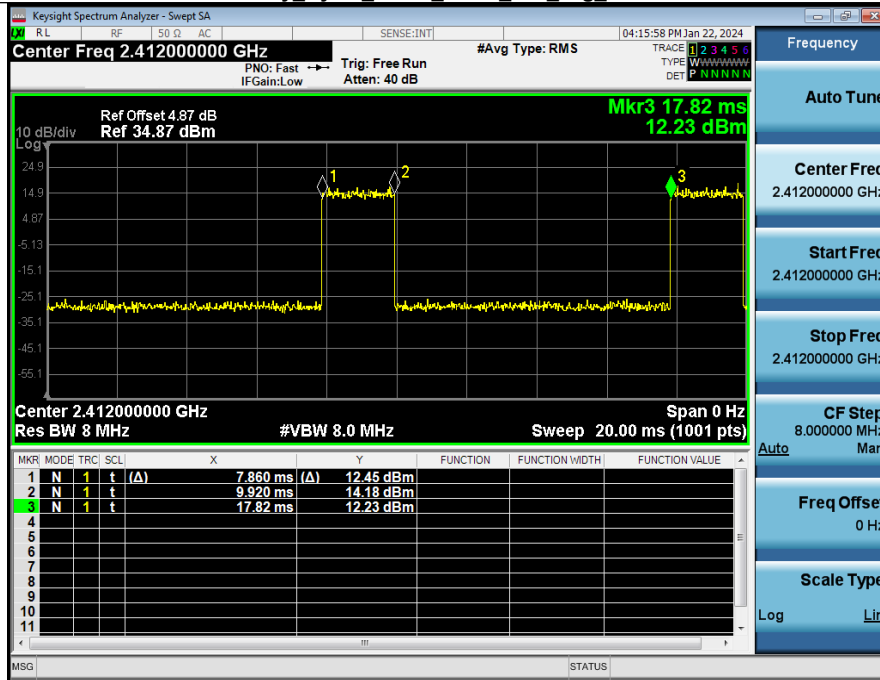
Duty Cycle NVNT ANT1_802_11b_2437



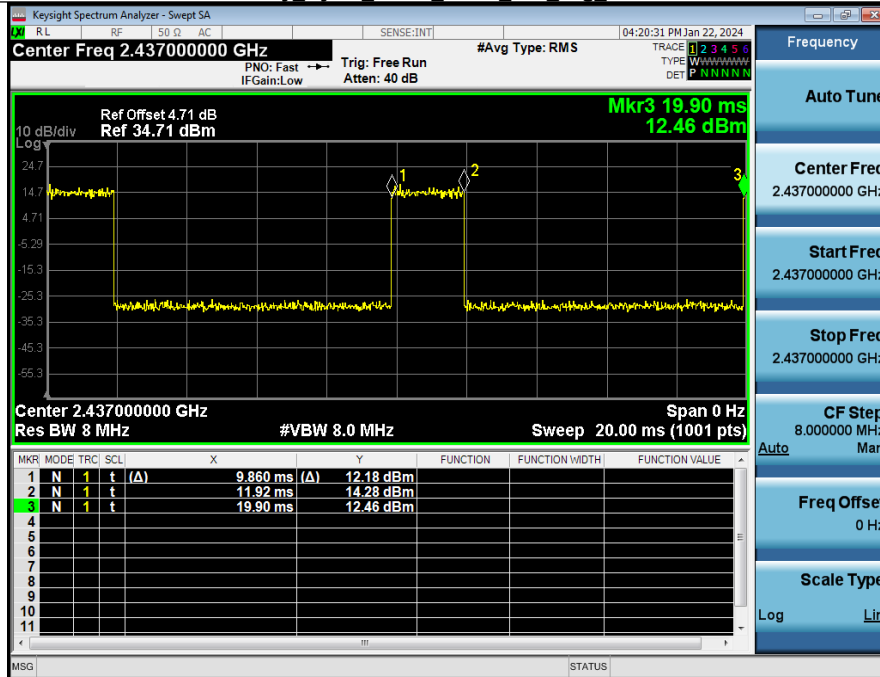
Duty Cycle NVNT ANT1_802_11b_2462



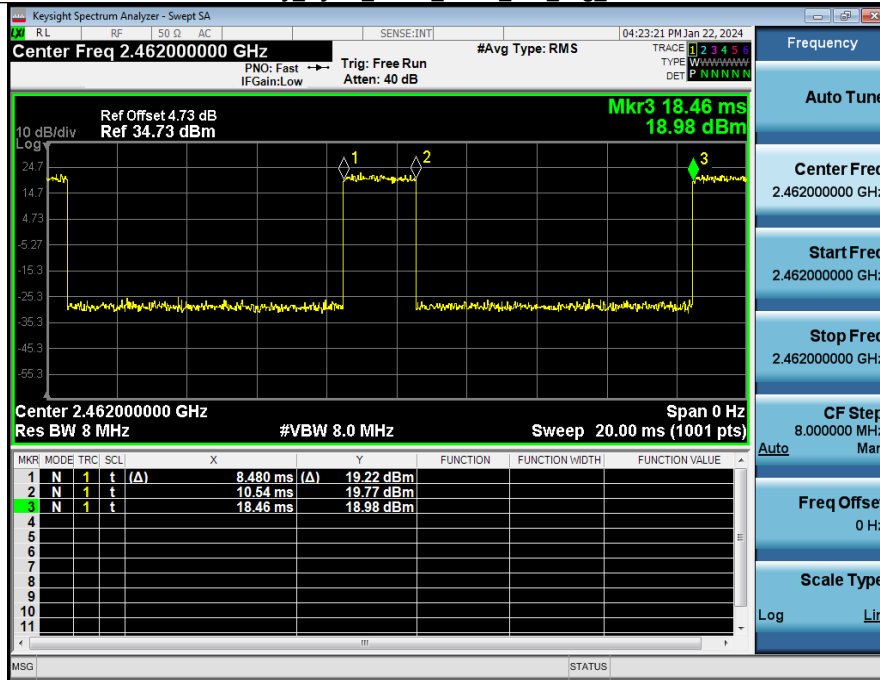
Duty Cycle NVNT ANT1_802_11g_2412



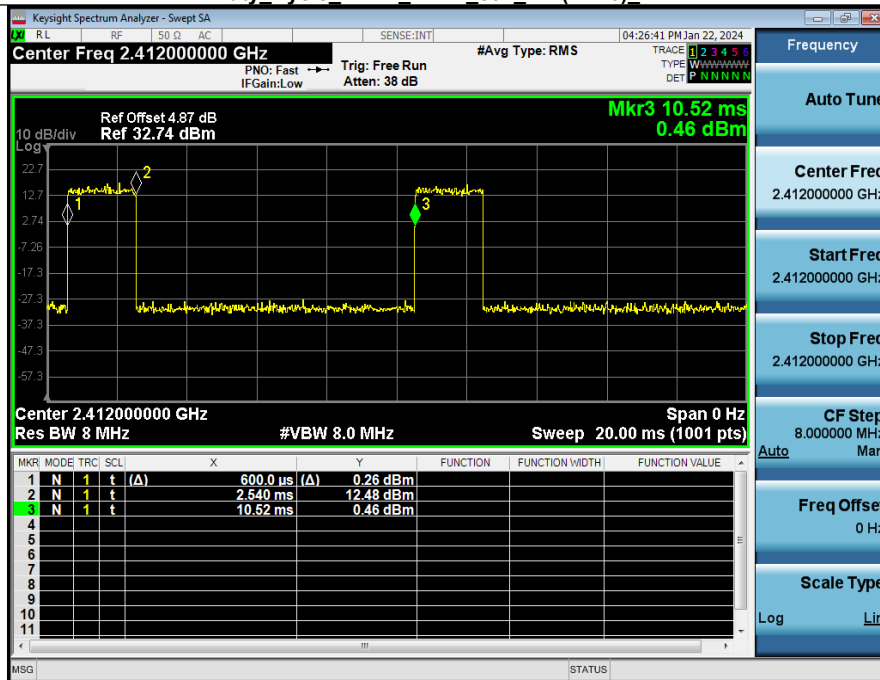
Duty Cycle NVNT ANT1_802_11g_2437



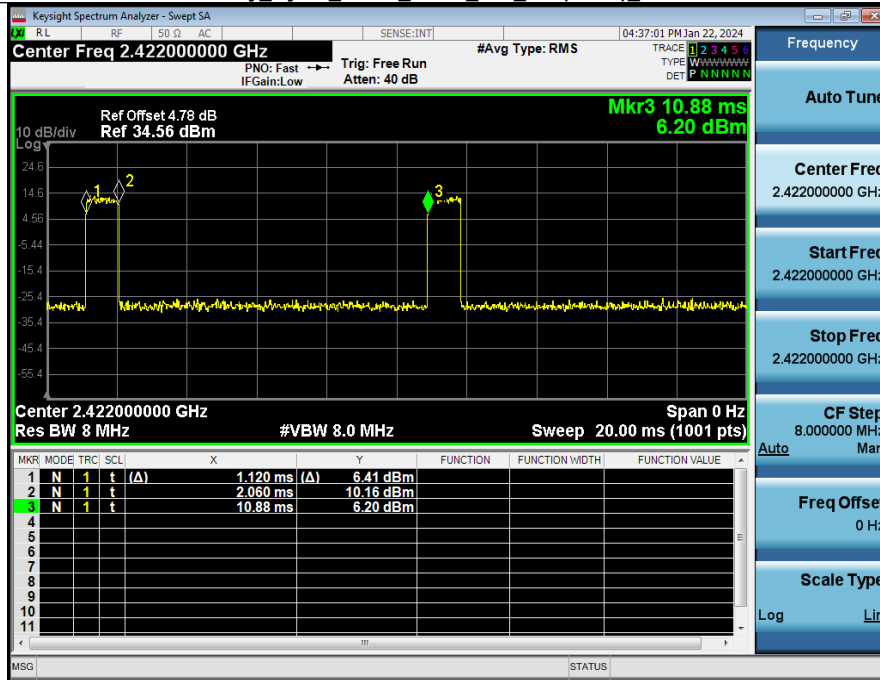
Duty Cycle NVNT ANT1_802_11g_2462



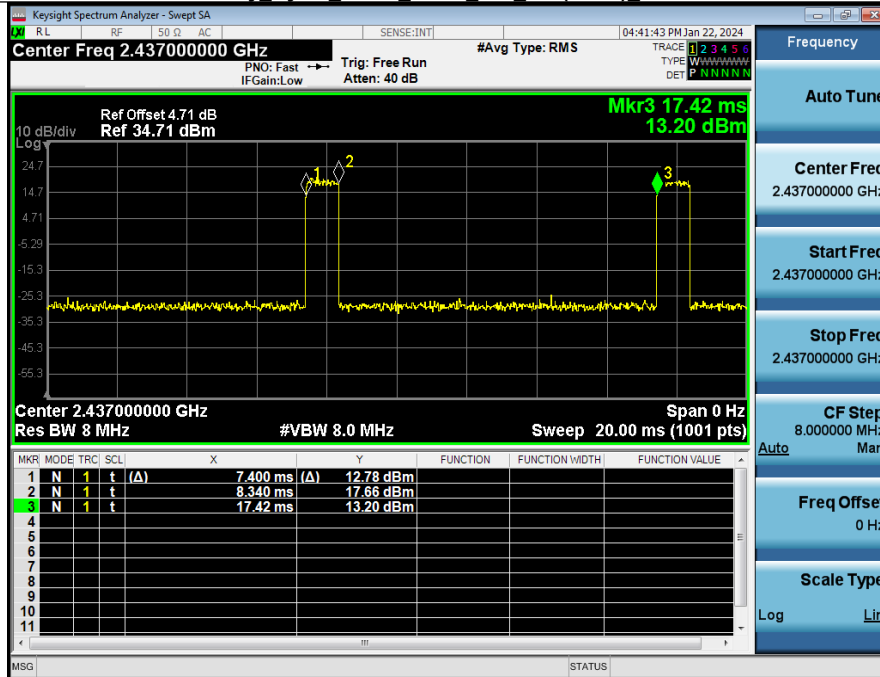
Duty Cycle NVNT ANT1_802_11n(HT20)_2412



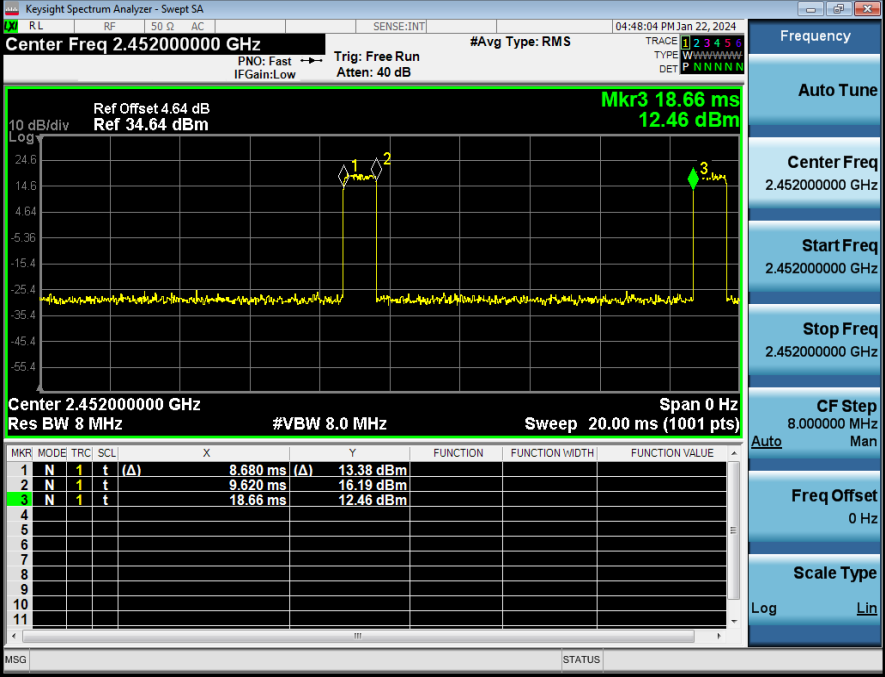
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



Duty Cycle NVNT_ANT1_802_11n(HT40)_2437

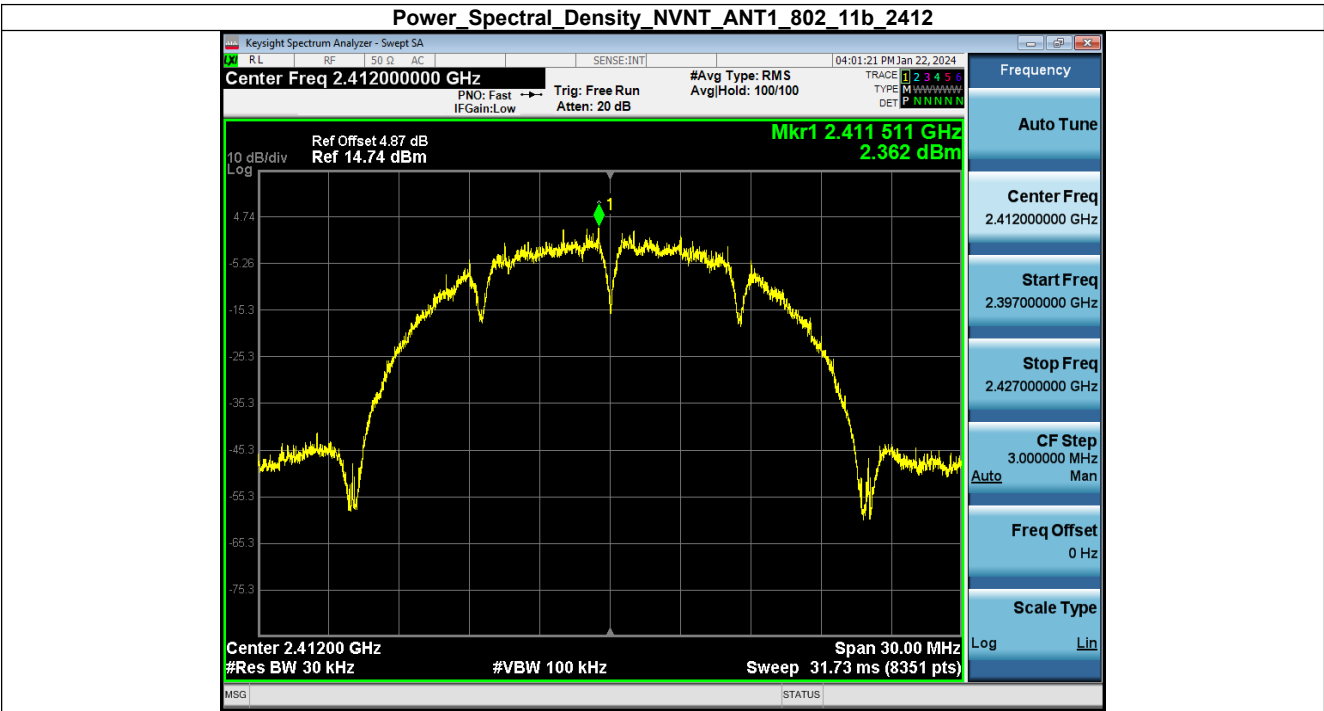


Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452

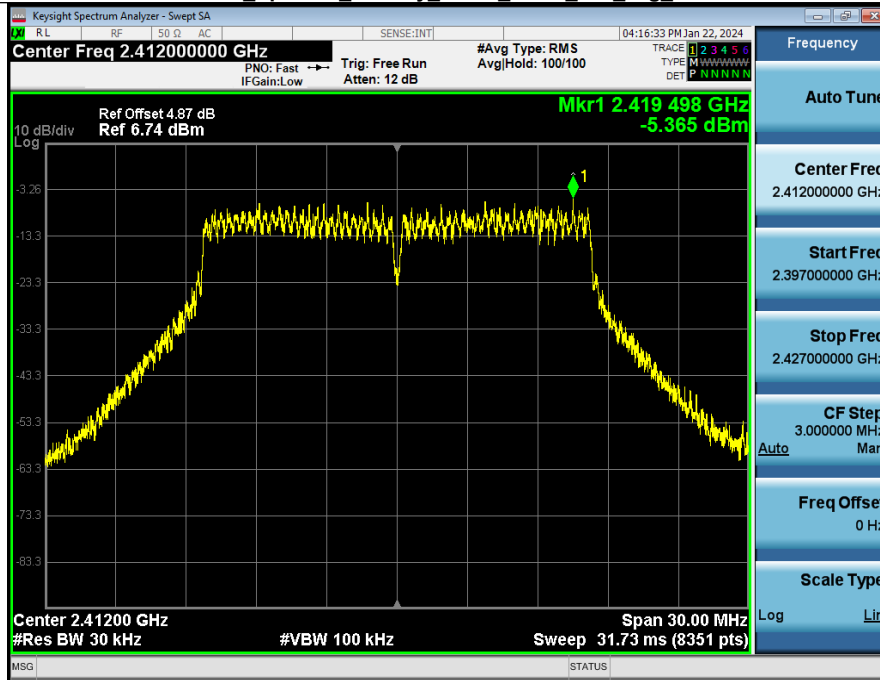


5. Power Spectral Density

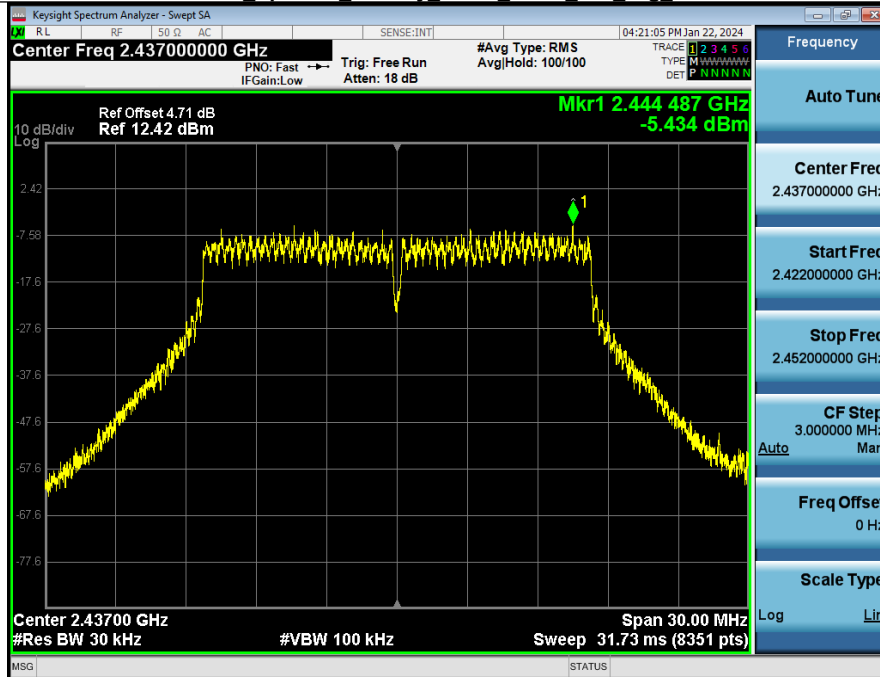
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	2.36	-10.00	-7.64	8	Pass
NVNT	ANT1	802.11b	2437.00	1.42	-10.00	-8.58	8	Pass
NVNT	ANT1	802.11b	2462.00	4.09	-10.00	-5.91	8	Pass
NVNT	ANT1	802.11g	2412.00	-5.37	-10.00	-15.37	8	Pass
NVNT	ANT1	802.11g	2437.00	-5.43	-10.00	-15.43	8	Pass
NVNT	ANT1	802.11g	2462.00	1.35	-10.00	-8.65	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-5.92	-10.00	-15.92	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	1.28	-10.00	-8.72	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	1.05	-10.00	-8.95	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-8.24	-10.00	-18.24	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-1.56	-10.00	-11.56	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-2.11	-10.00	-12.11	8	Pass



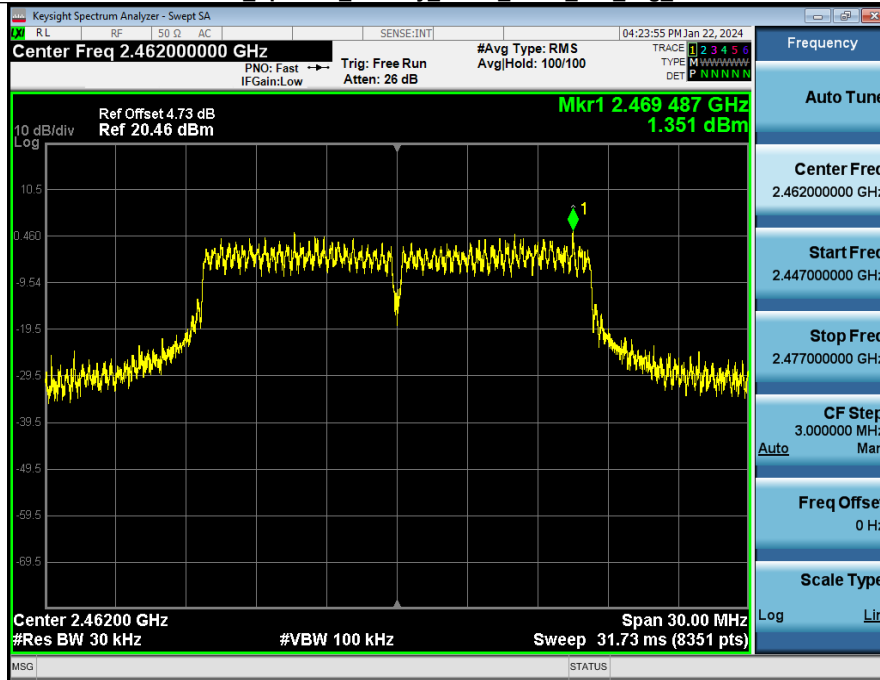
Power Spectral Density NVNT_ANT1_802_11g_2412



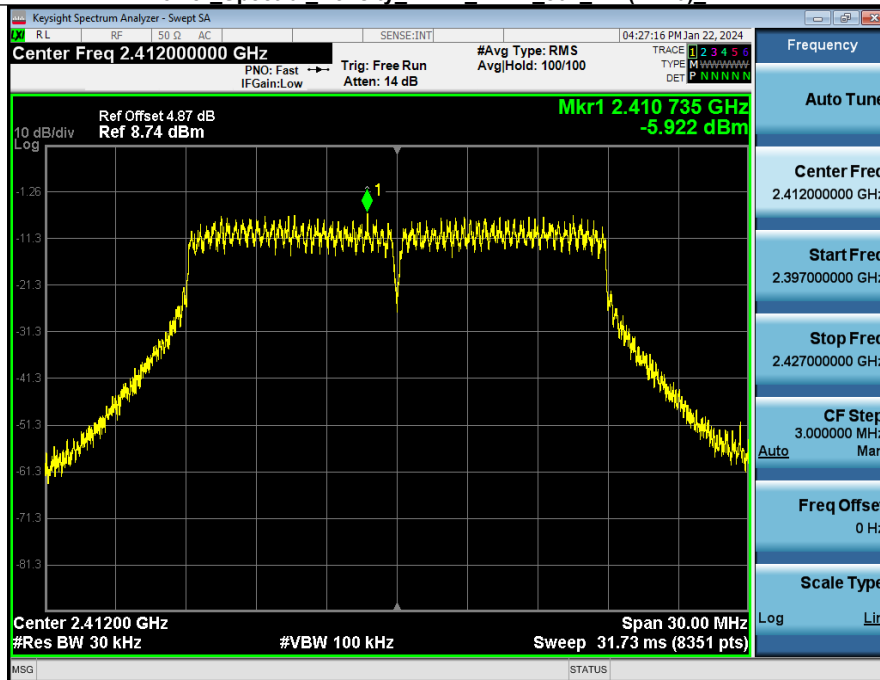
Power Spectral Density NVNT_ANT1_802_11g_2437



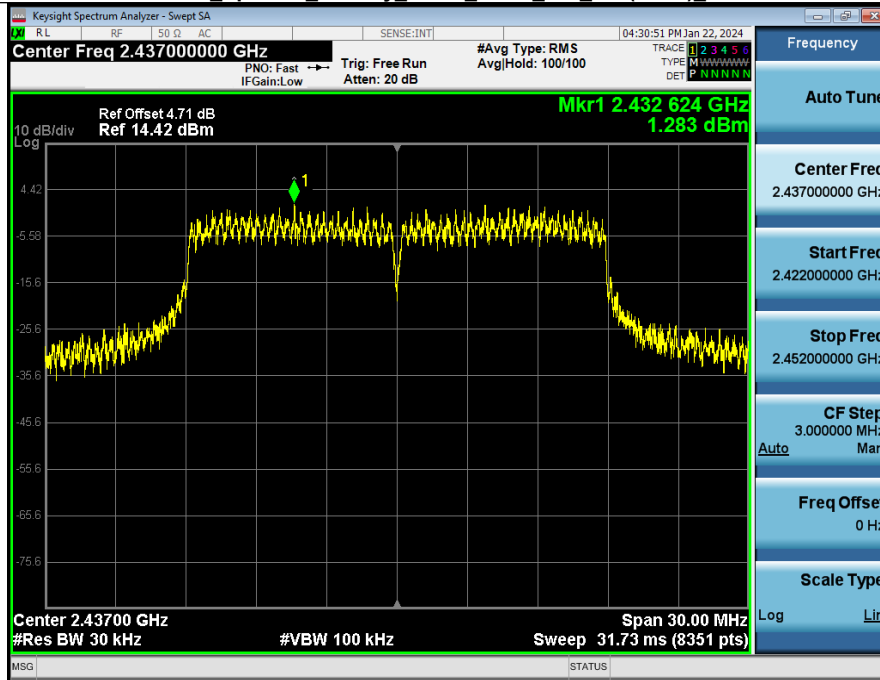
Power Spectral Density NVNT_ANT1_802_11g_2462



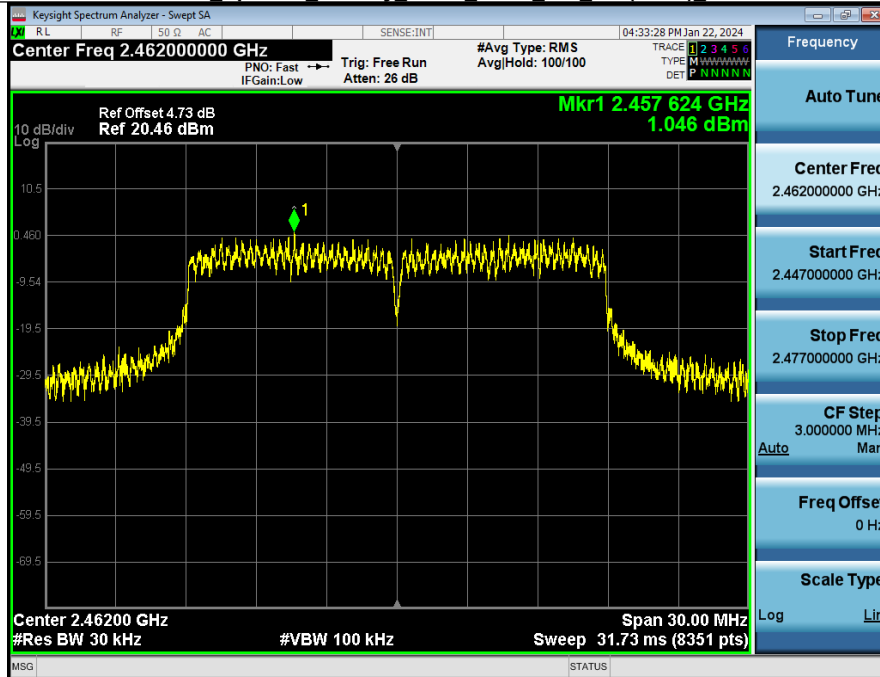
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2412



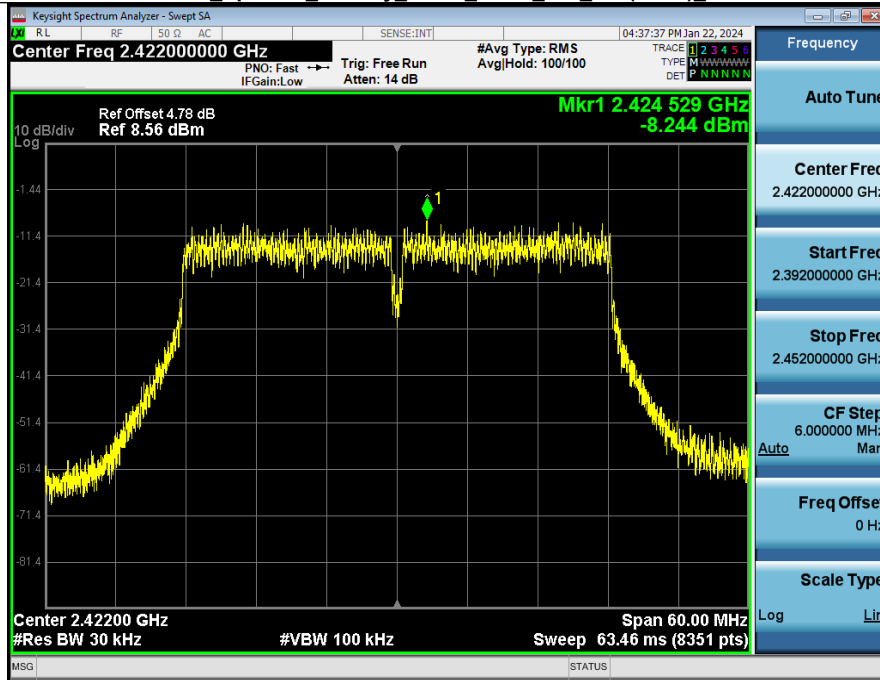
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2437



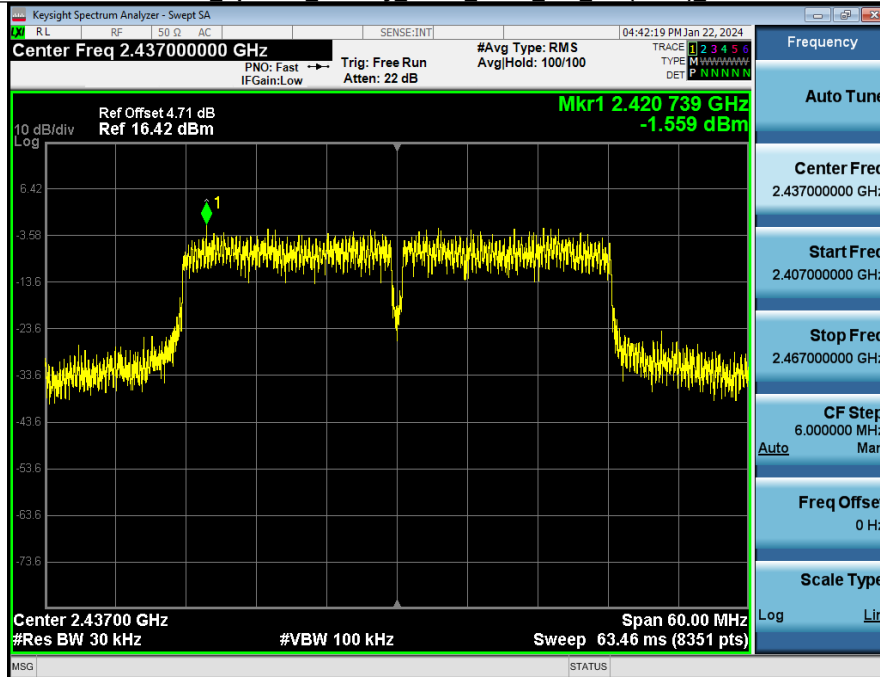
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2462



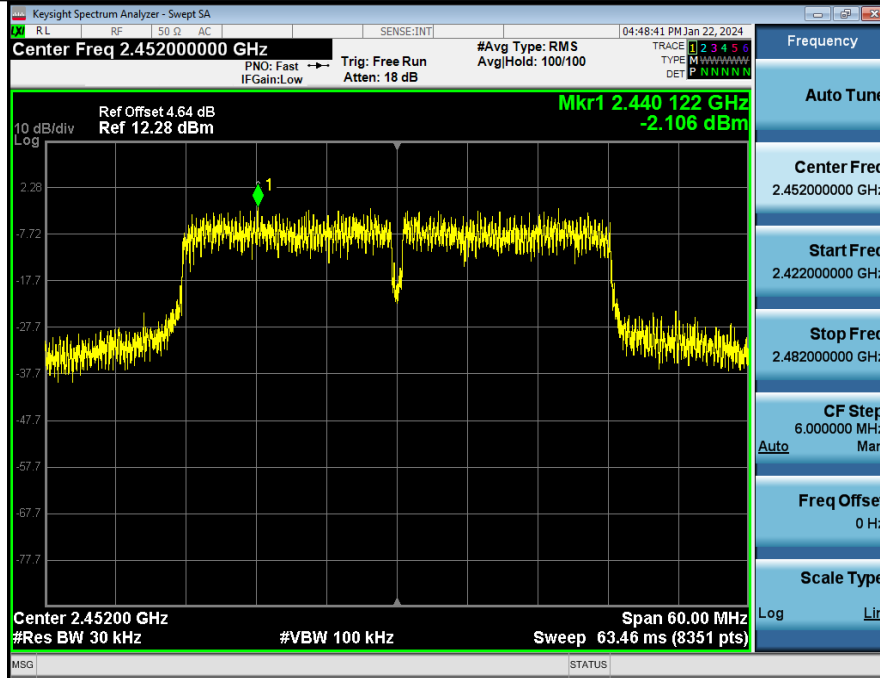
Power Spectral Density NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density NVNT_ANT1_802_11n(HT40)_2437

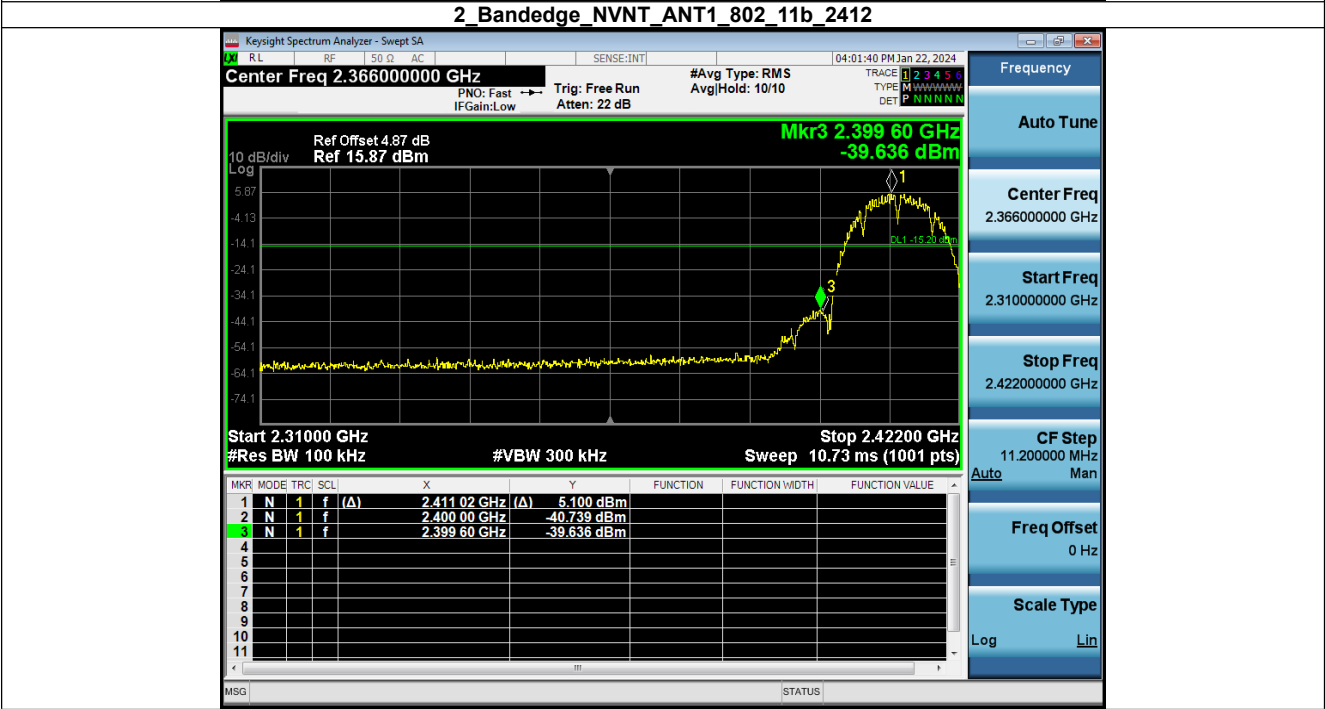
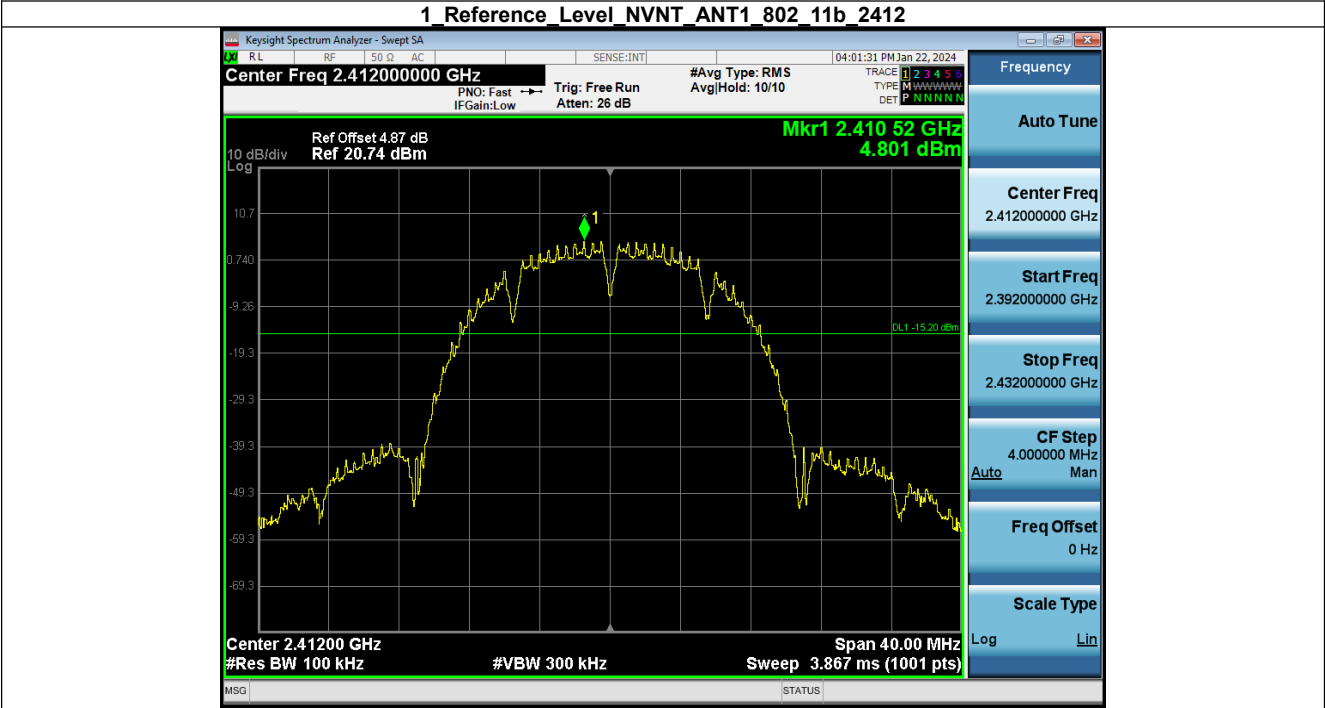


Power Spectral Density NVNT_ANT1_802_11n(HT40)_2452



6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.600	-39.636	-15.199	Pass
NVNT	ANT1	802.11b	2462.00	2488.048	-43.692	-12.792	Pass
NVNT	ANT1	802.11g	2412.00	2399.712	-42.812	-20.673	Pass
NVNT	ANT1	802.11g	2462.00	2483.584	-29.052	-14.163	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-42.213	-21.143	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.920	-28.653	-14.465	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-41.764	-23.363	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-20.982	-16.723	Pass



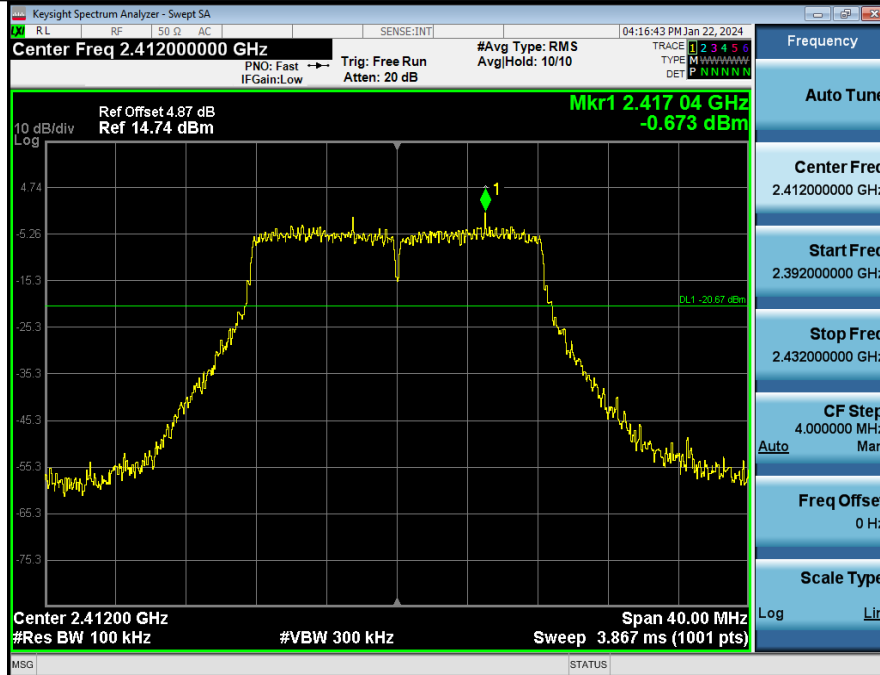
1 Reference Level_NVNT_ANT1_802_11b_2462



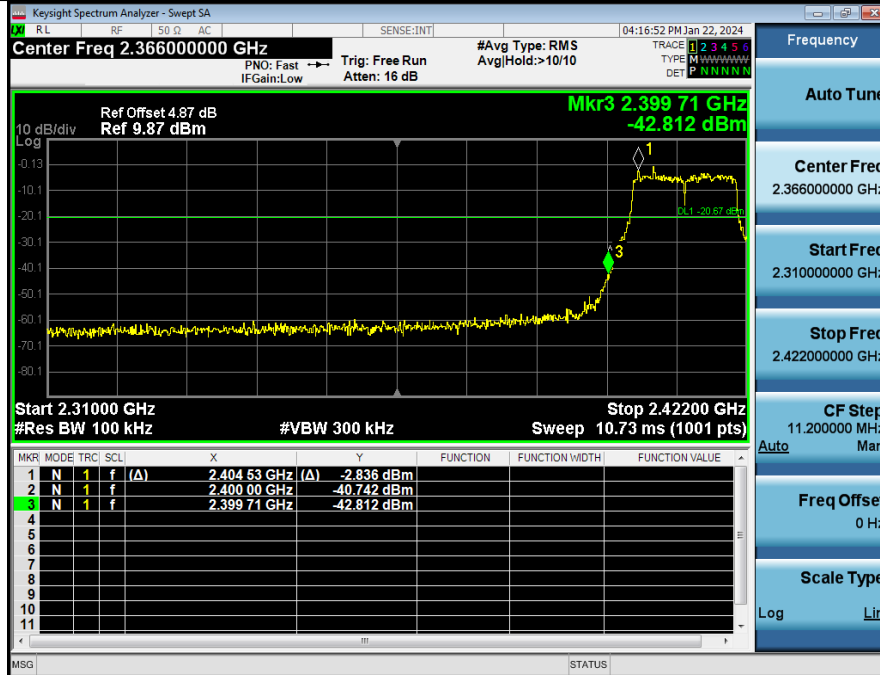
2 Bandedge_NVNT_ANT1_802_11b_2462



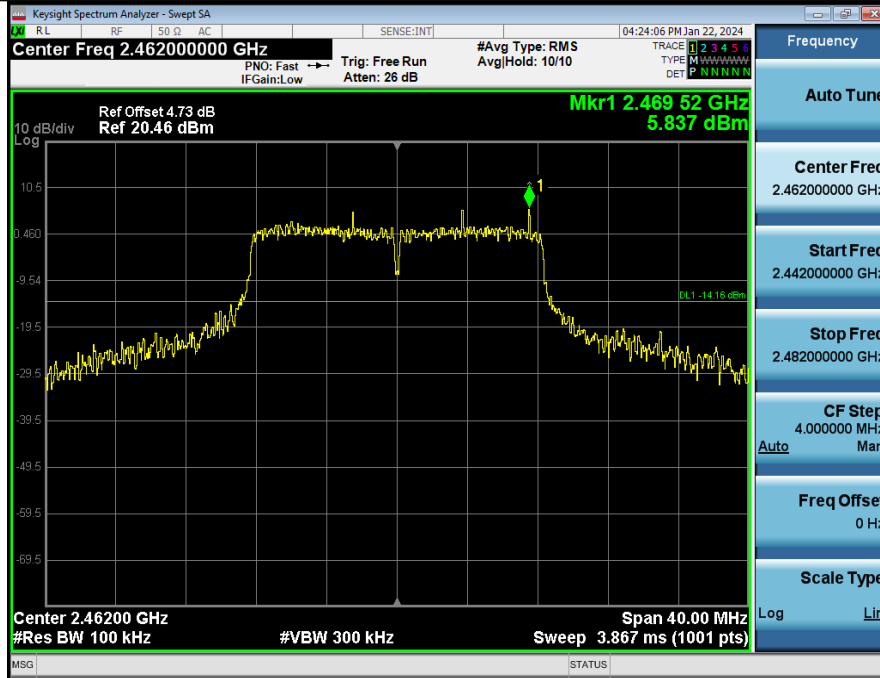
1_Reference_Level_NVNT_ANT1_802_11g_2412



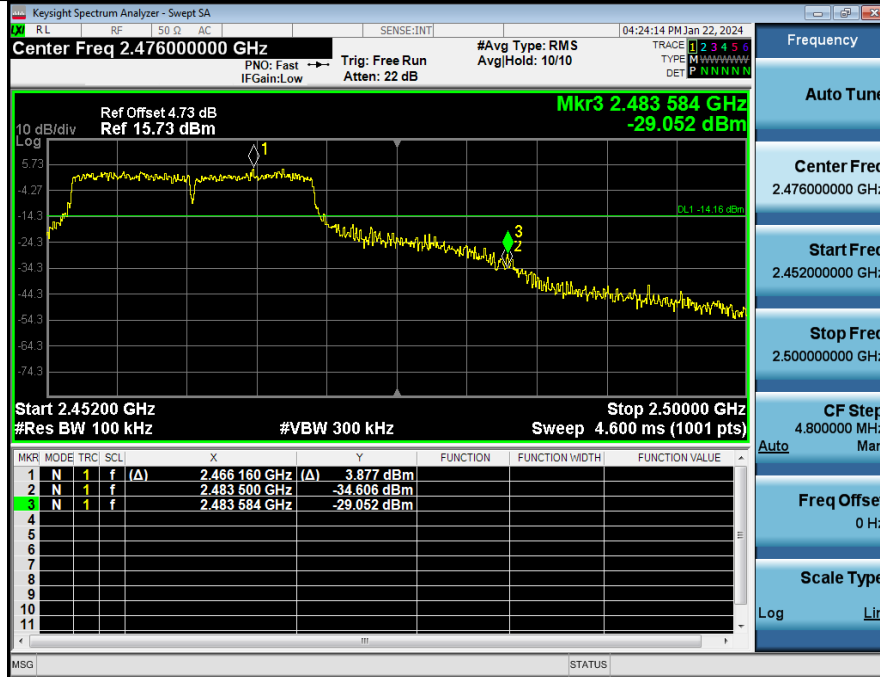
2_Bandedge_NVNT_ANT1_802_11g_2412



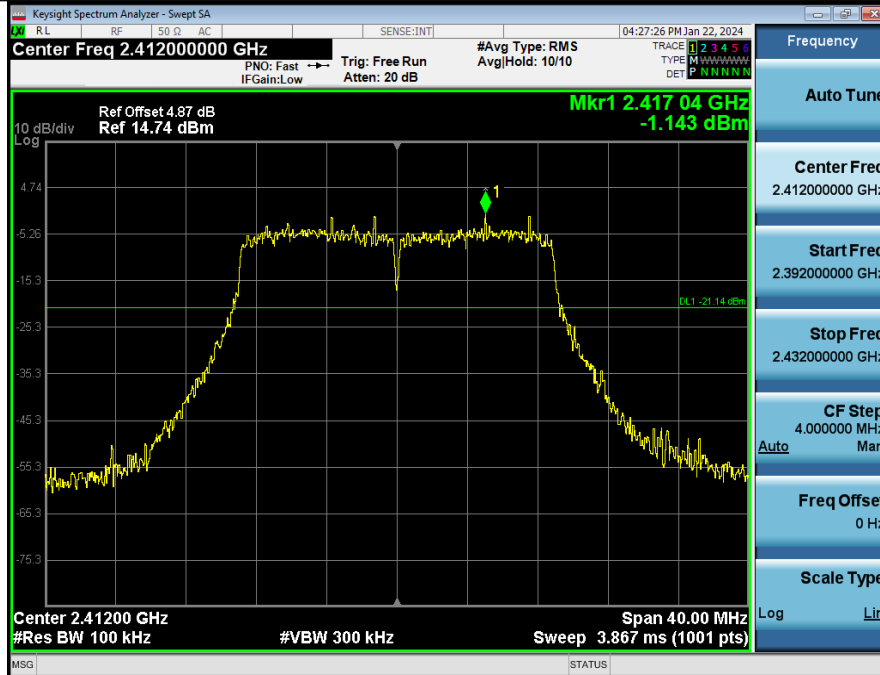
1_Reference_Level_NVNT_ANT1_802_11g_2462



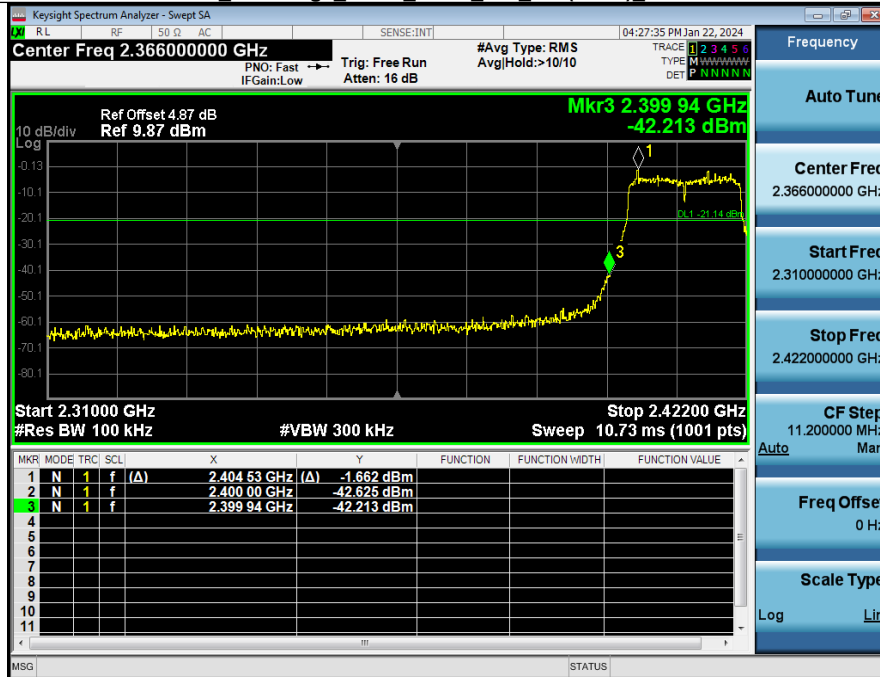
2_Bandedge_NVNT_ANT1_802_11g_2462



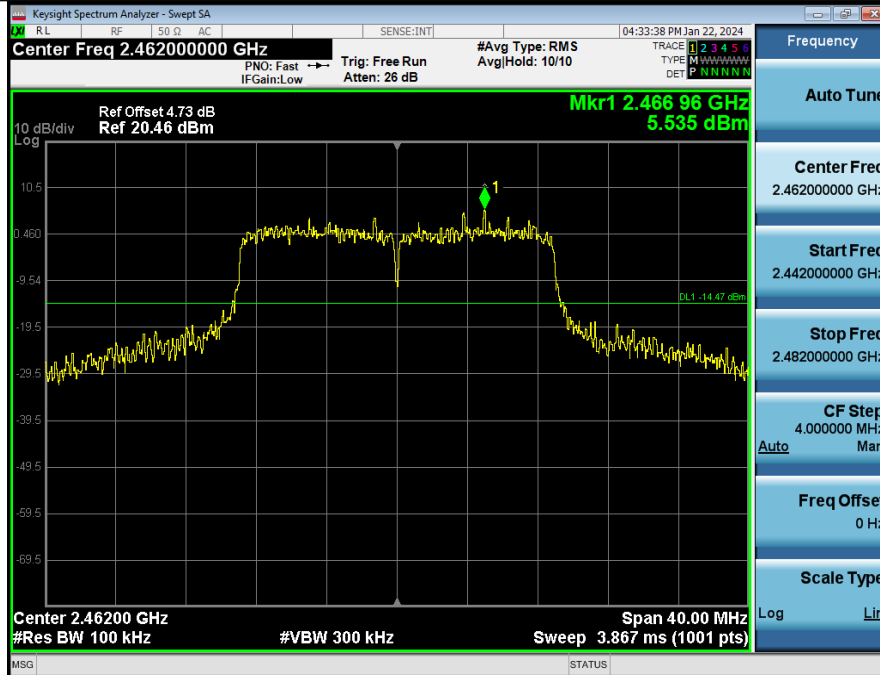
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



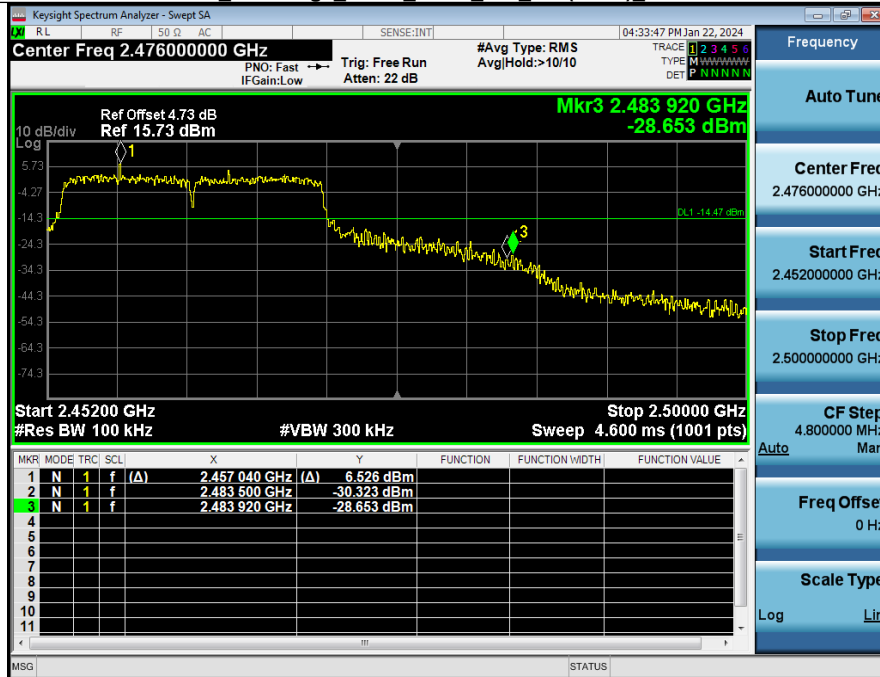
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



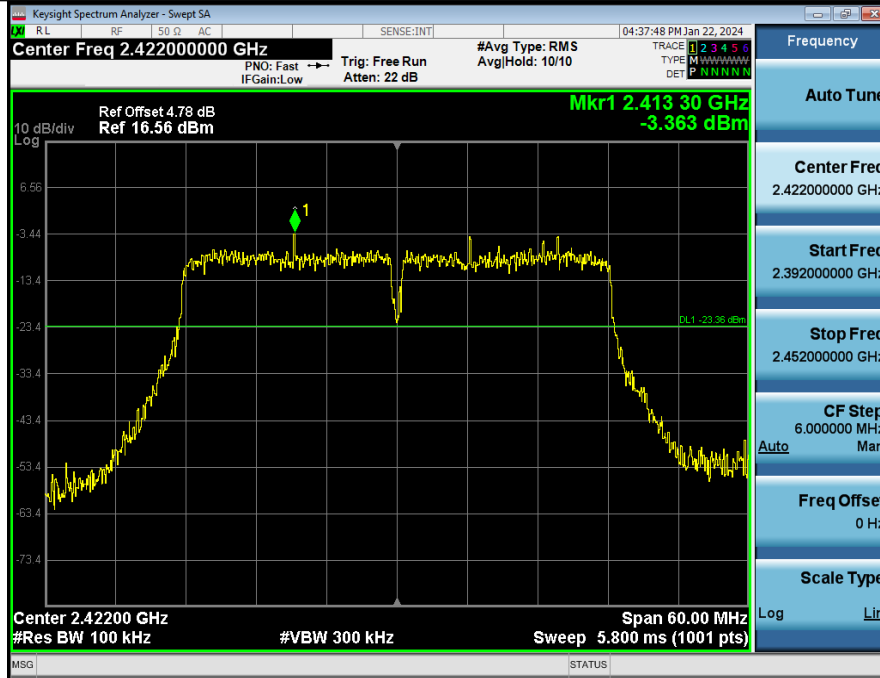
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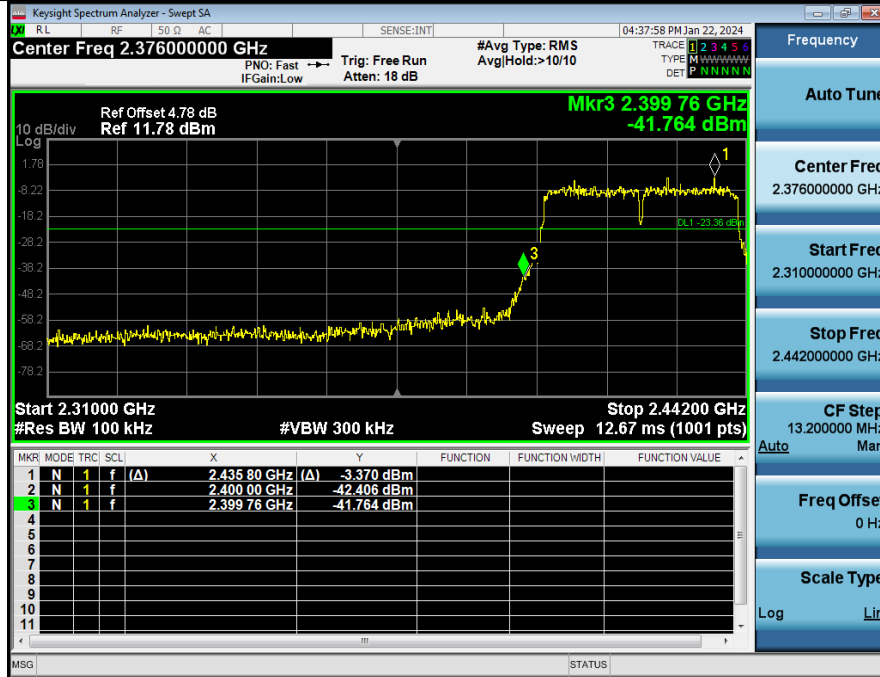
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



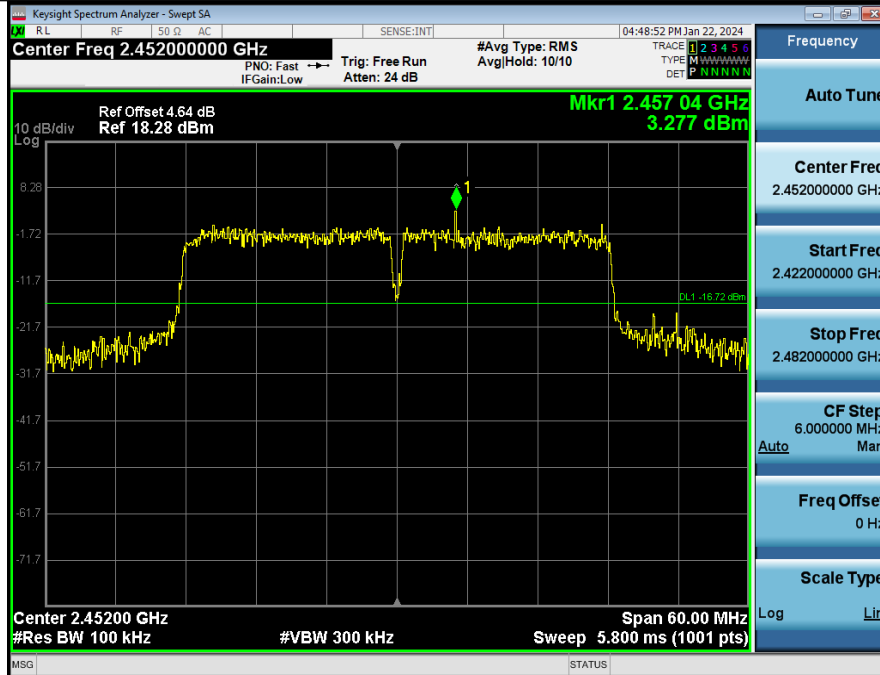
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2422



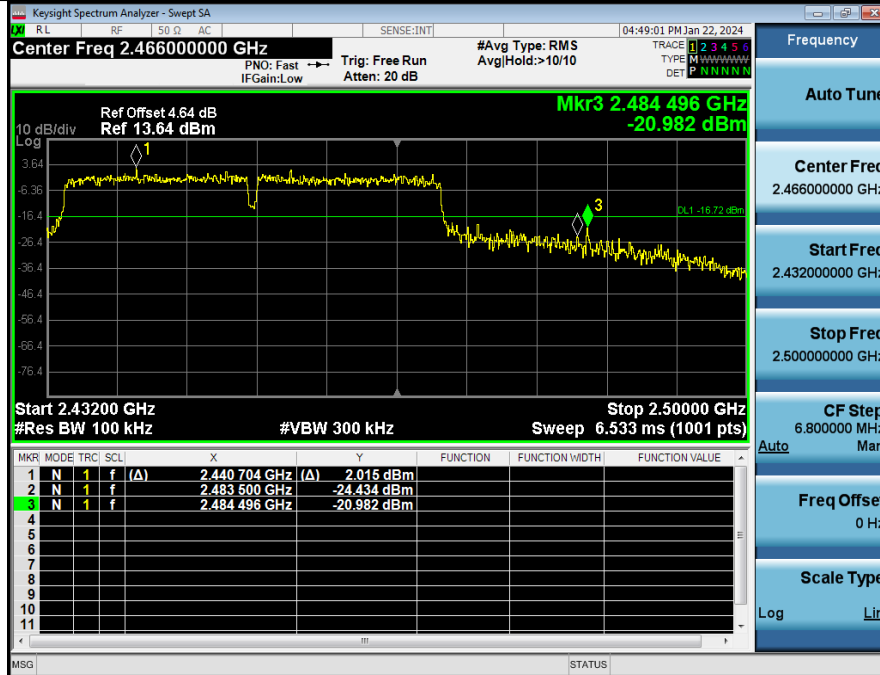
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1 Reference Level_NVNT_ANT1_802_11n(HT40)_2452

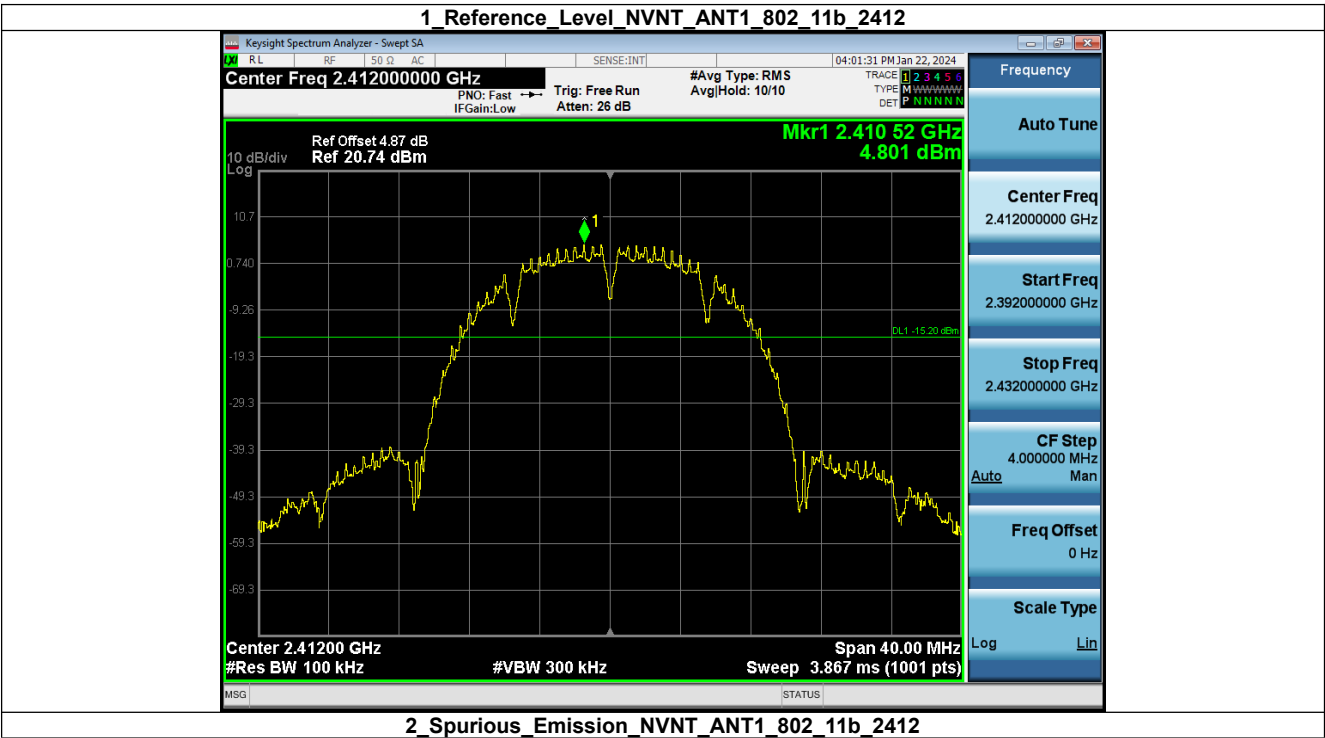


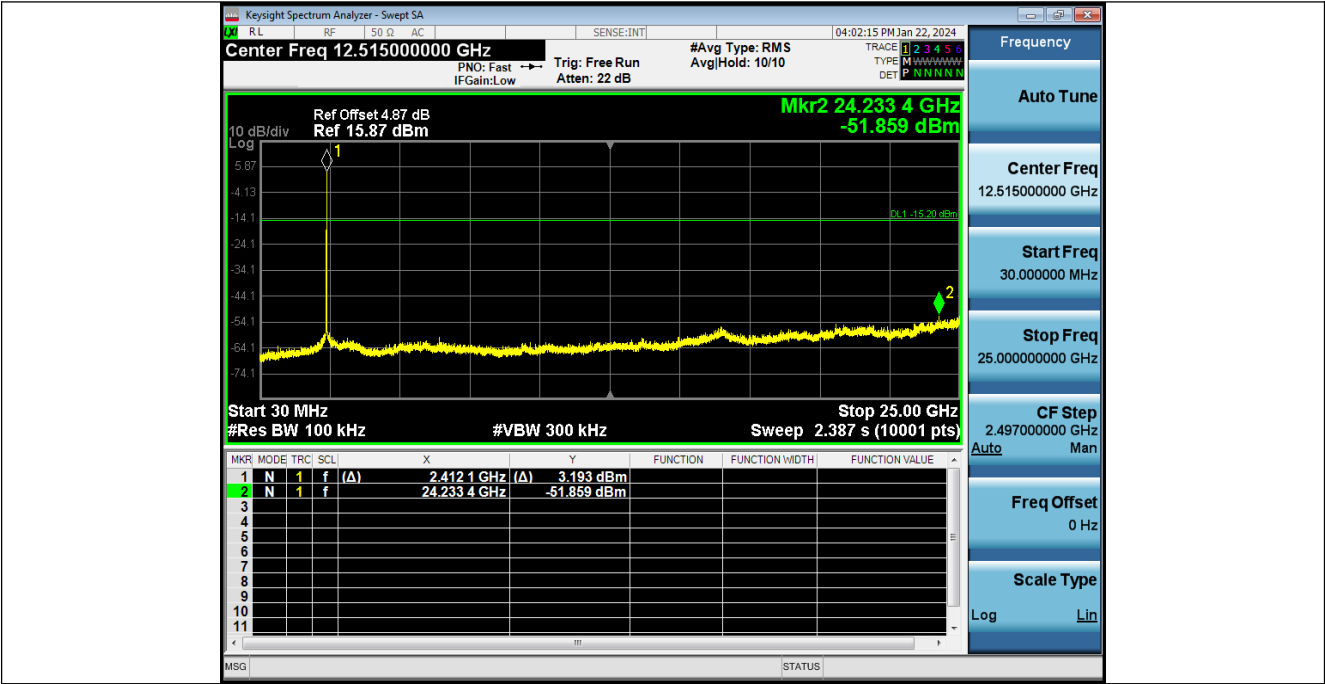
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



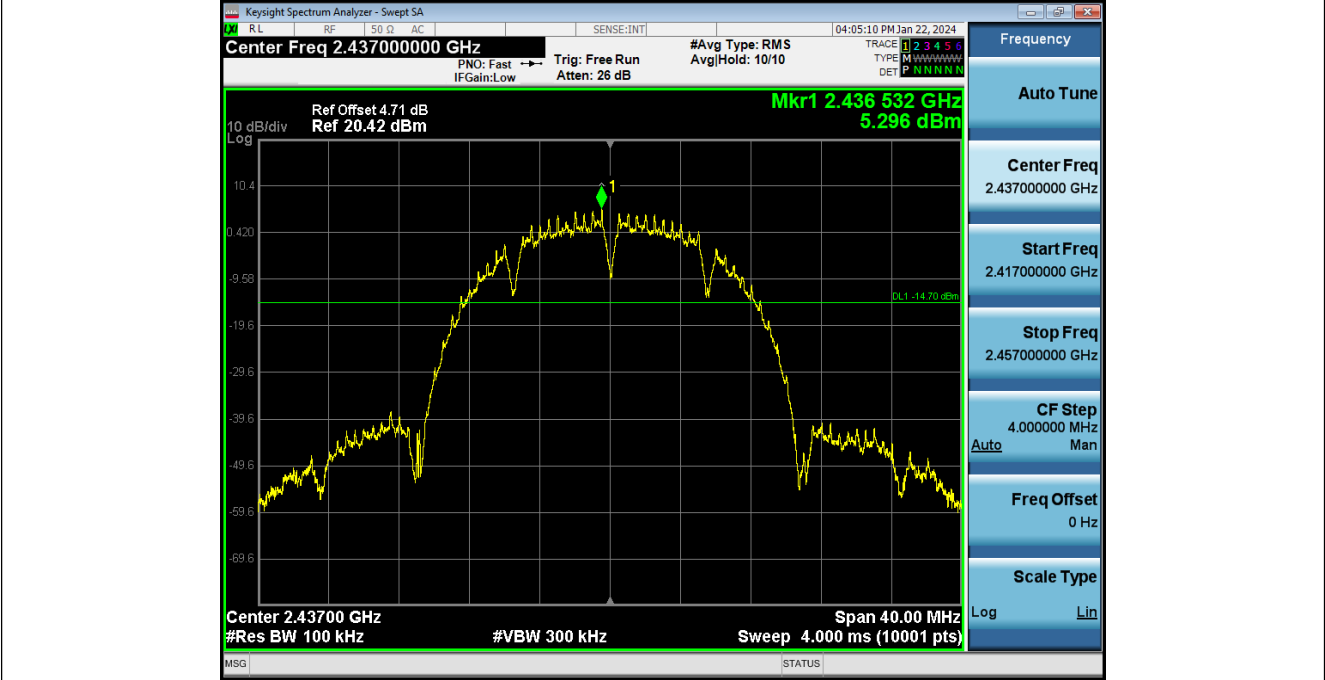
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24233.421	-51.859	-15.199	Pass
NVNT	ANT1	802.11b	2437.00	24980.024	-52.721	-14.704	Pass
NVNT	ANT1	802.11b	2462.00	24957.551	-49.158	-12.792	Pass
NVNT	ANT1	802.11g	2412.00	24970.036	-58.184	-20.673	Pass
NVNT	ANT1	802.11g	2437.00	24995.006	-54.679	-22.270	Pass
NVNT	ANT1	802.11g	2462.00	2502.030	-48.325	-14.163	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24922.593	-56.869	-21.143	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24912.605	-45.813	-13.052	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2502.030	-49.815	-14.465	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24997.503	-55.365	-23.363	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	2502.030	-46.997	-16.644	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2502.030	-39.047	-16.723	Pass

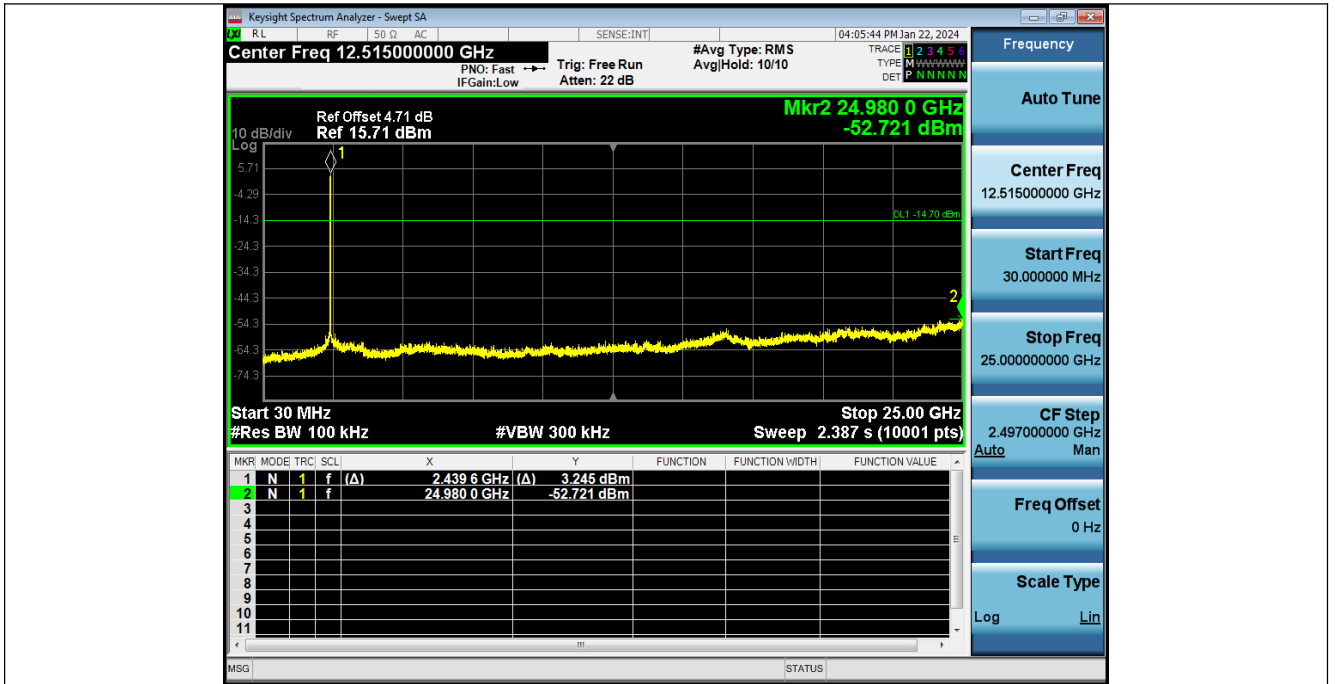




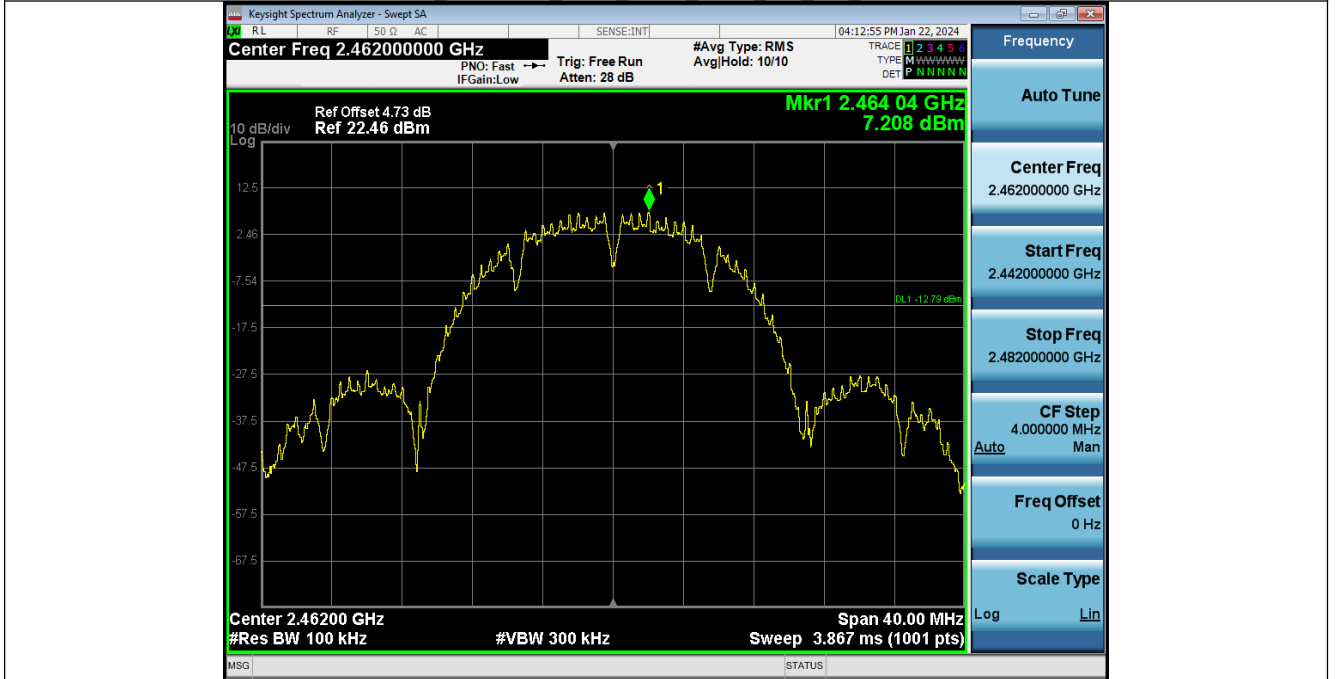
1 Reference Level NVNT_ANT1_802_11b_2437



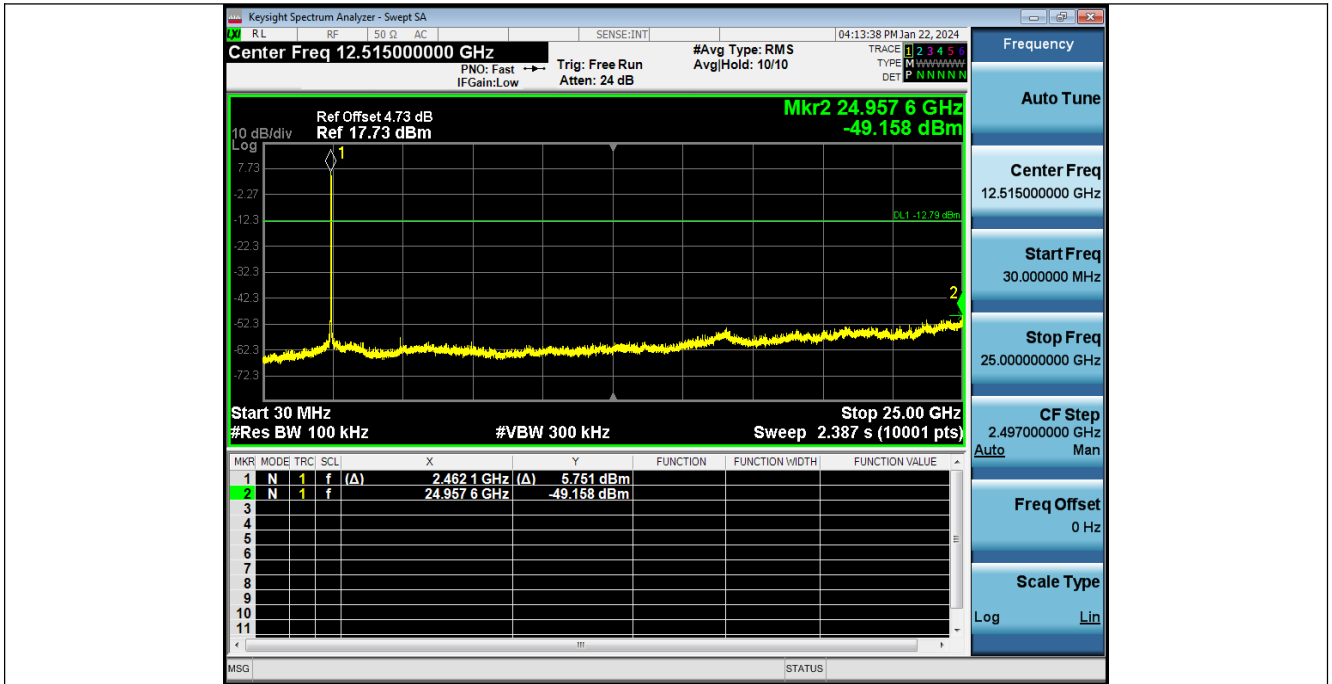
2 Spurious_Emission_NVNT_ANT1_802_11b_2437



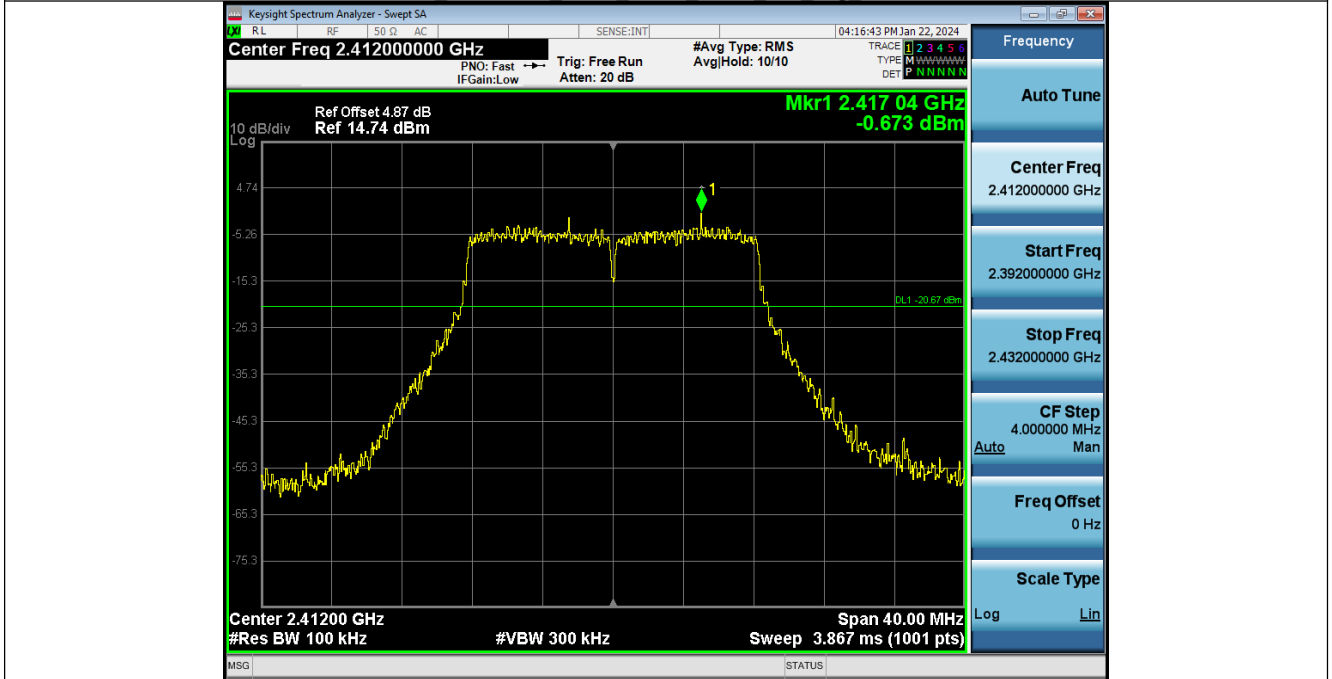
1 Reference Level NVNT_ANT1_802_11b_2462



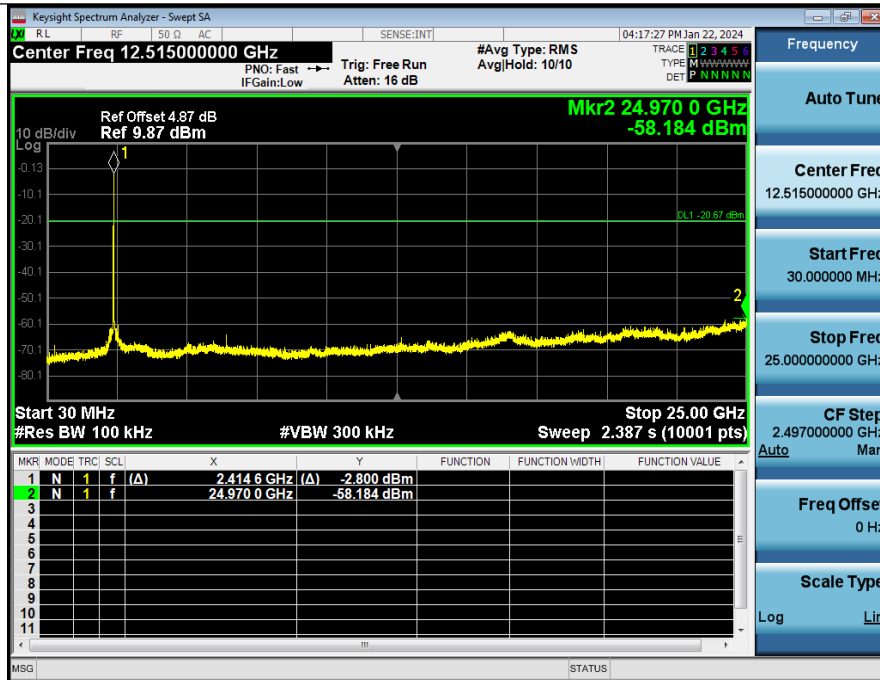
2 Spurious_Emission_NVNT_ANT1_802_11b_2462



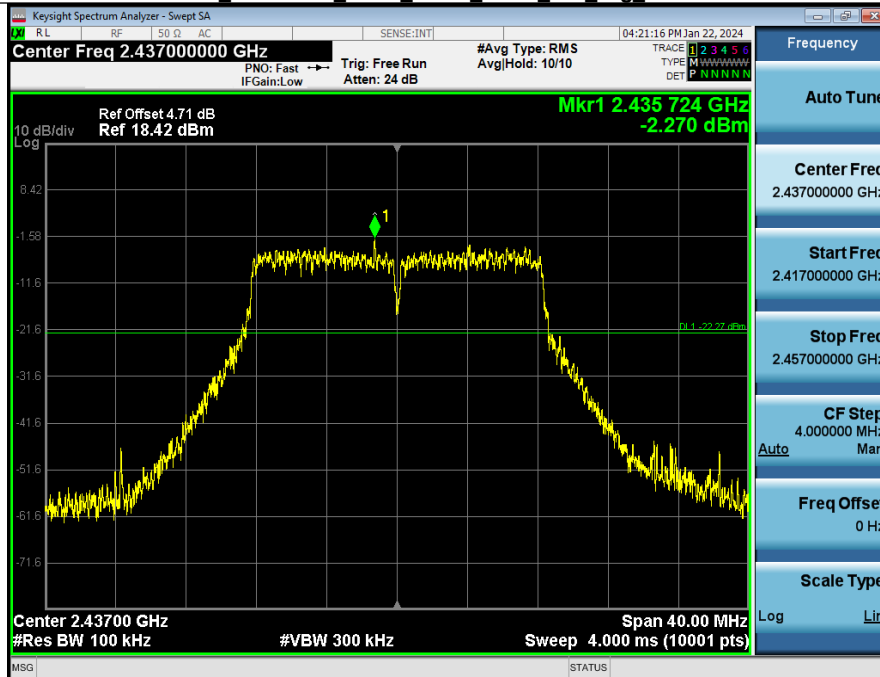
1 Reference Level NVNT_ANT1_802_11g_2412



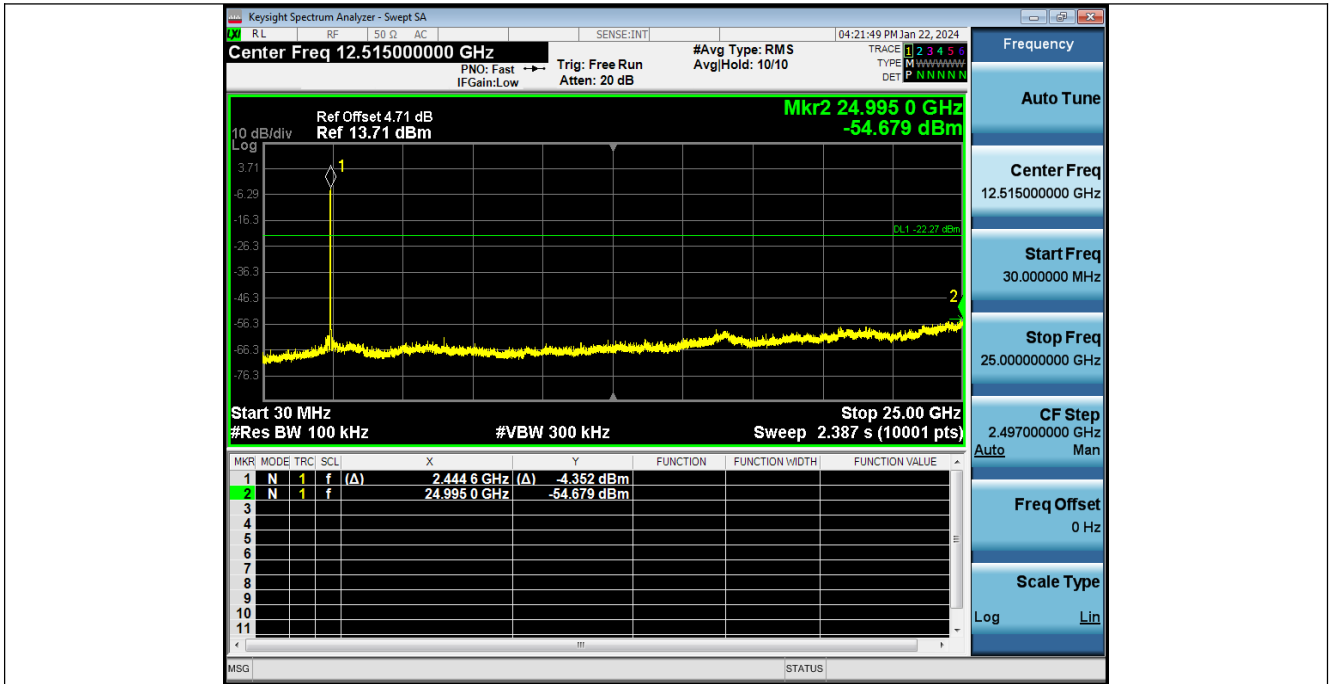
2 Spurious_Emission_NVNT_ANT1_802_11g_2412



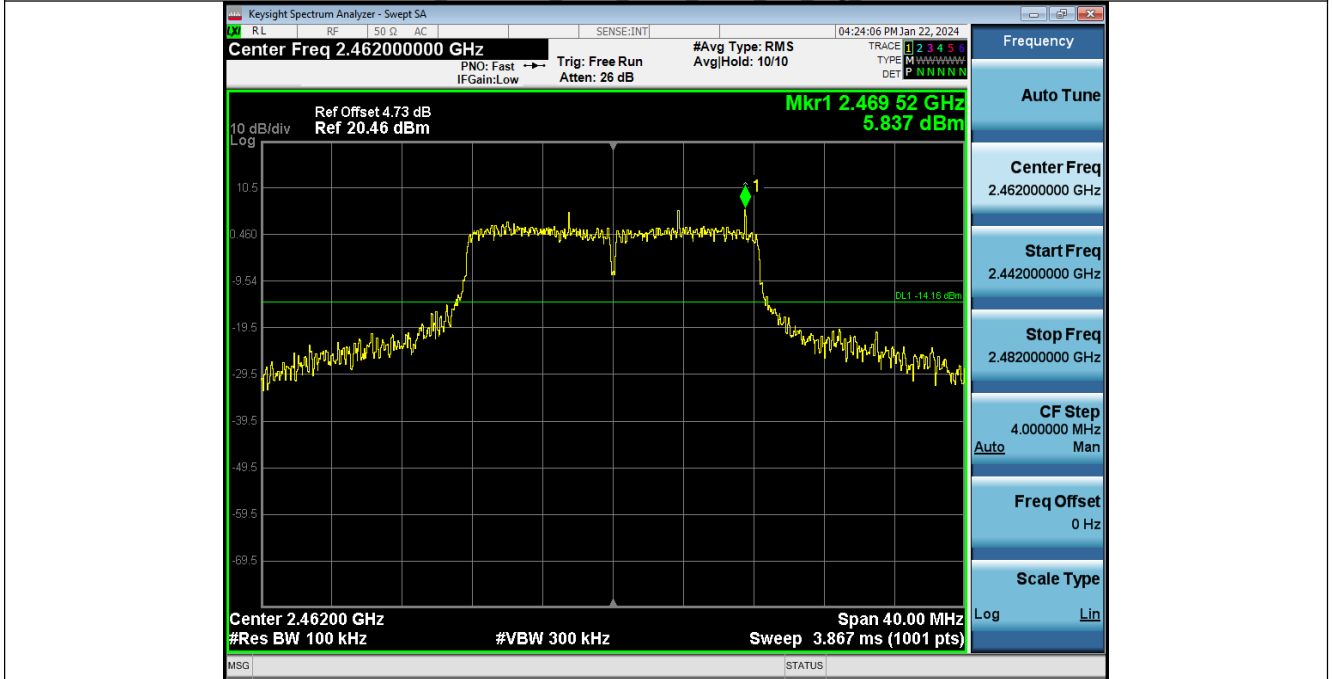
1 Reference Level NVNT_ANT1_802_11g_2437



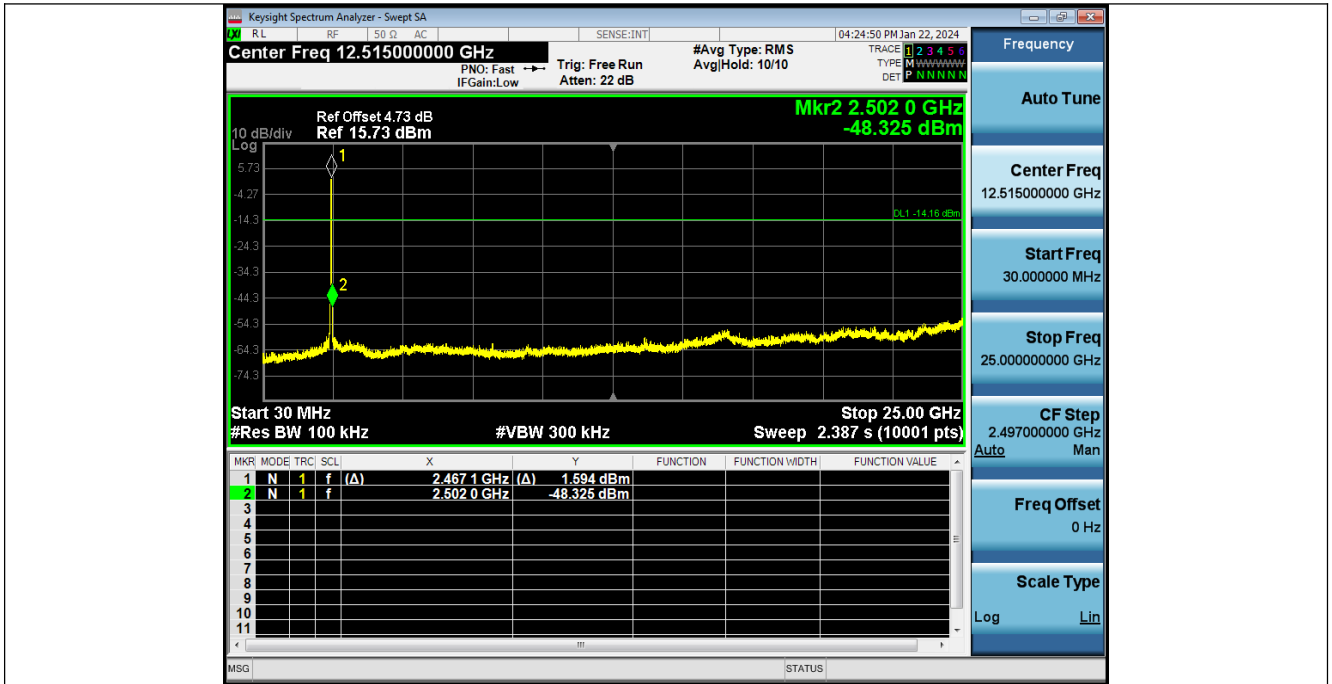
2 Spurious_Emission_NVNT_ANT1_802_11g_2437



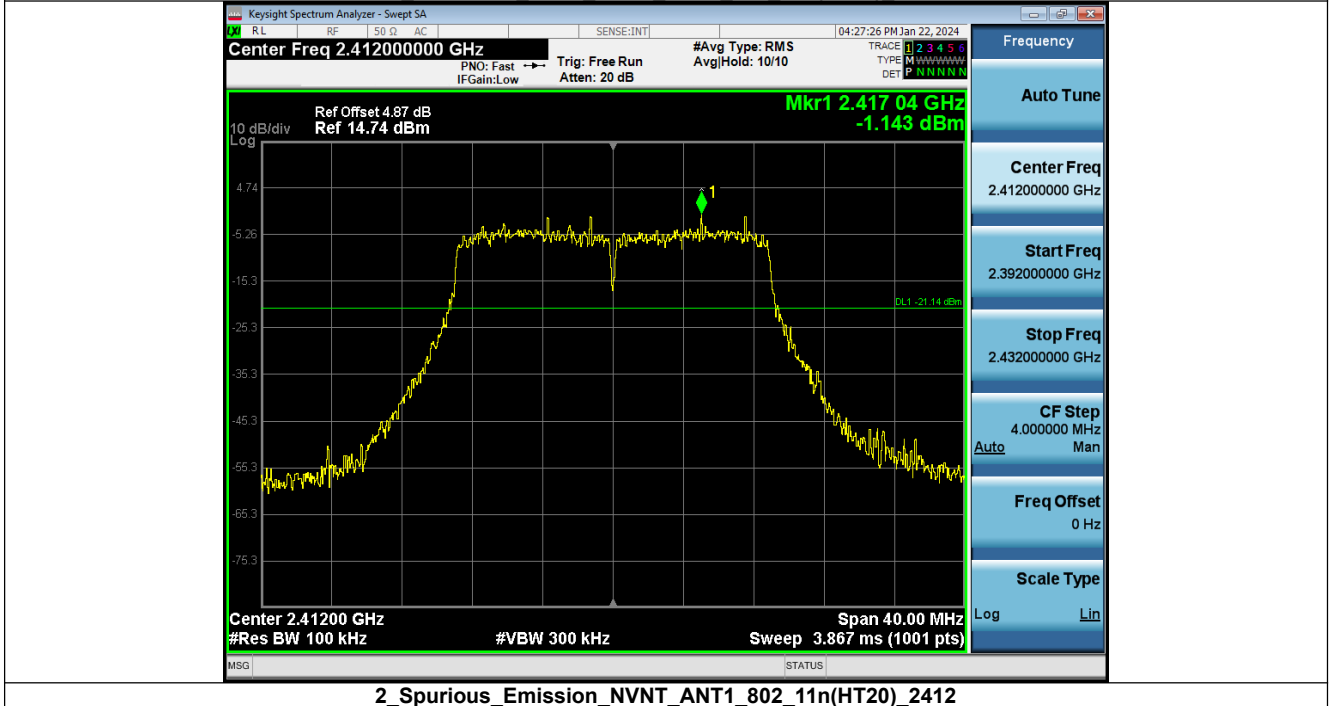
1 Reference Level NVNT_ANT1_802_11g_2462



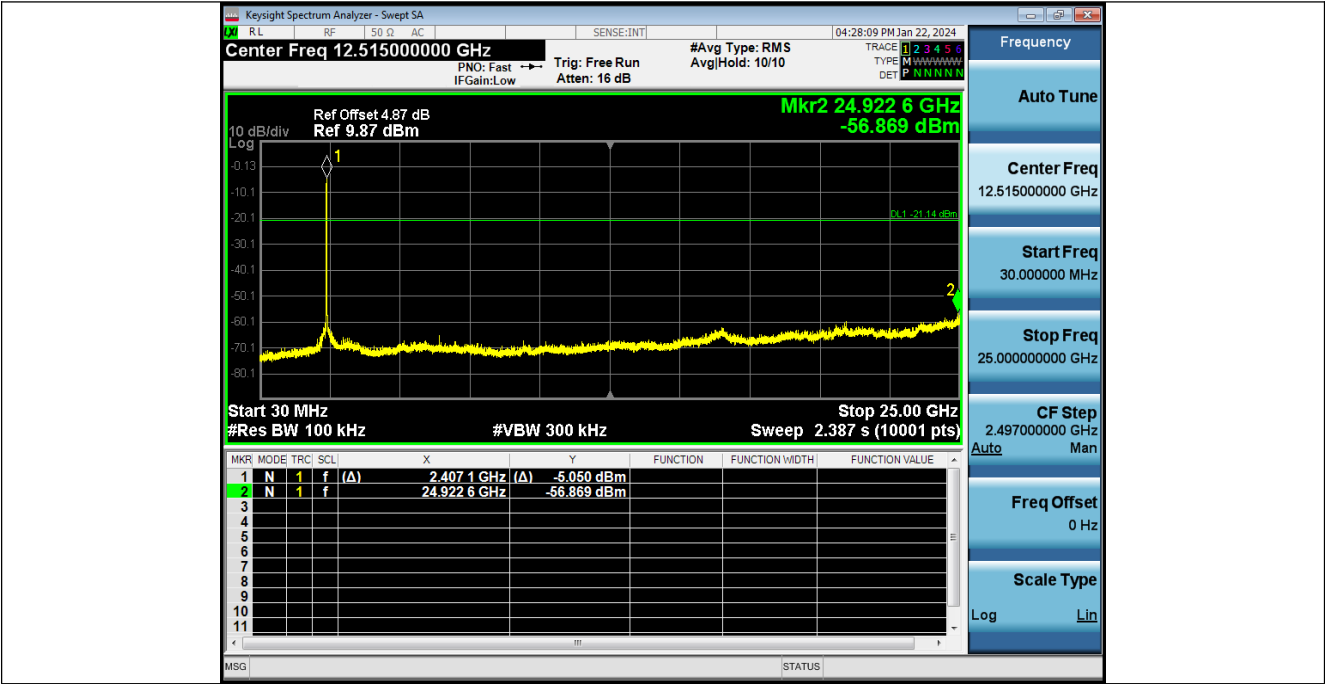
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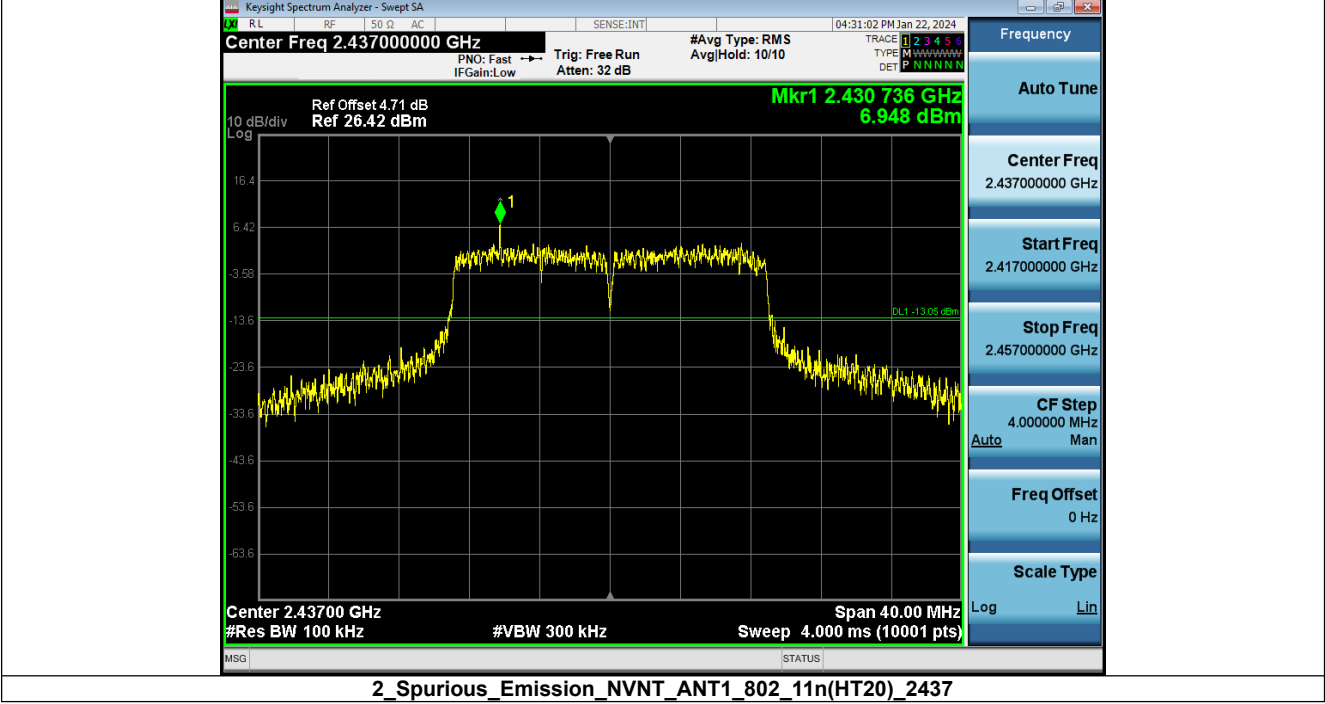
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



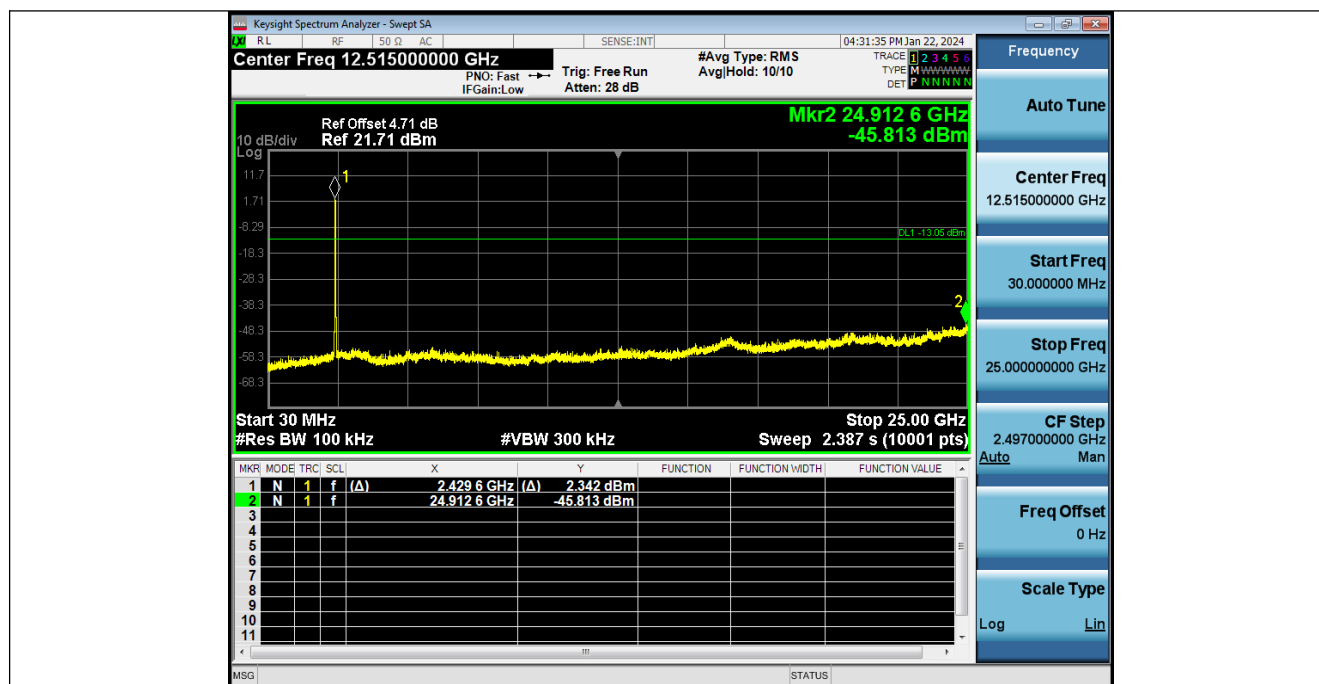
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



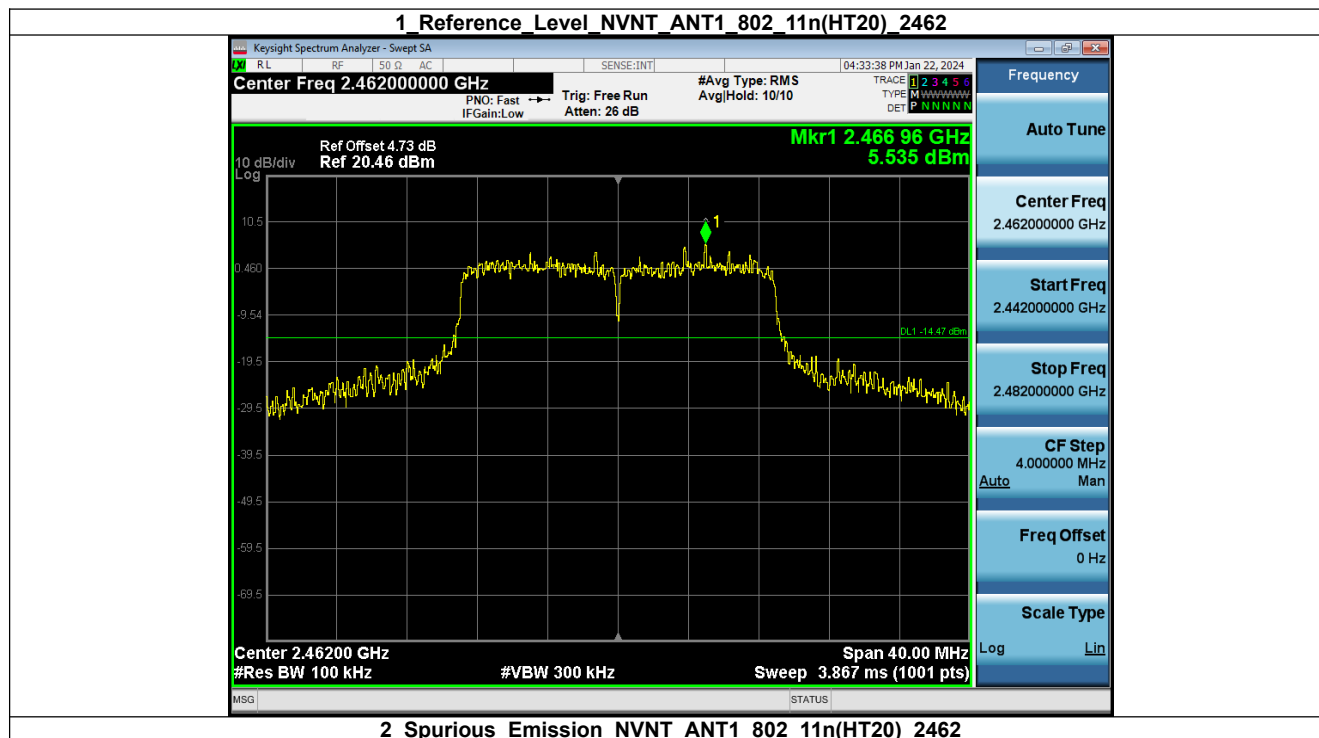
1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



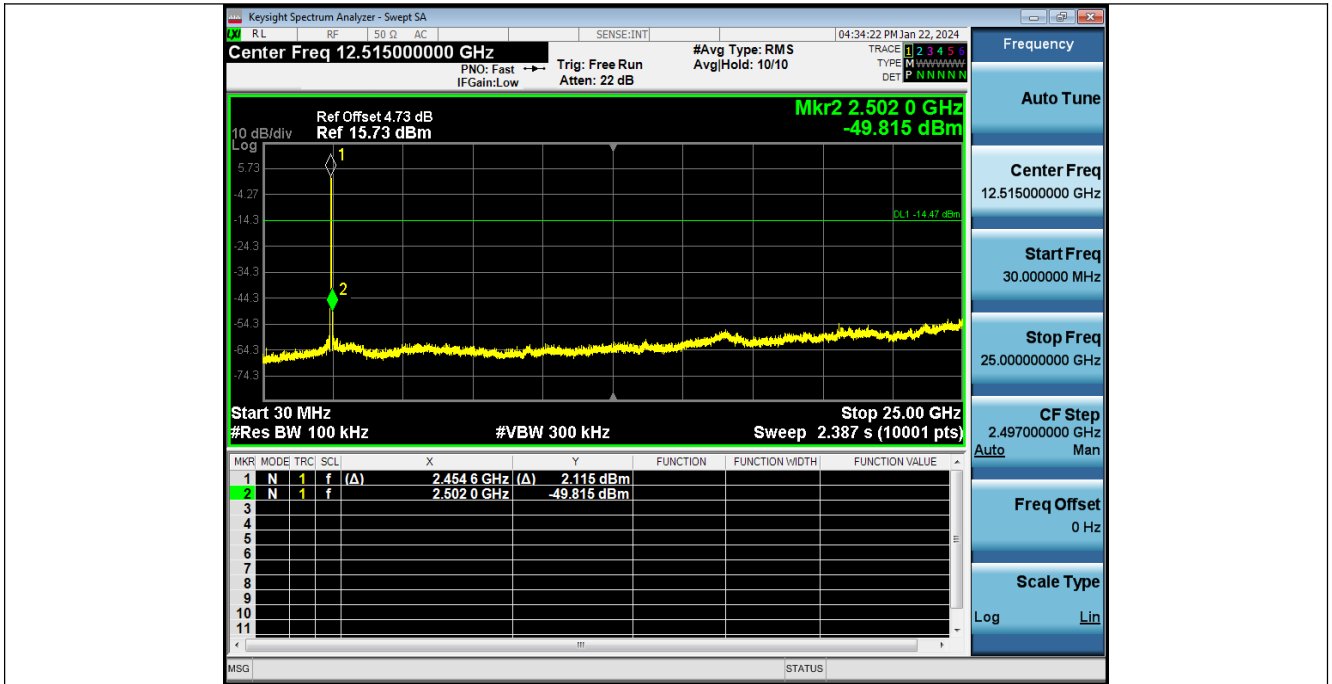
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



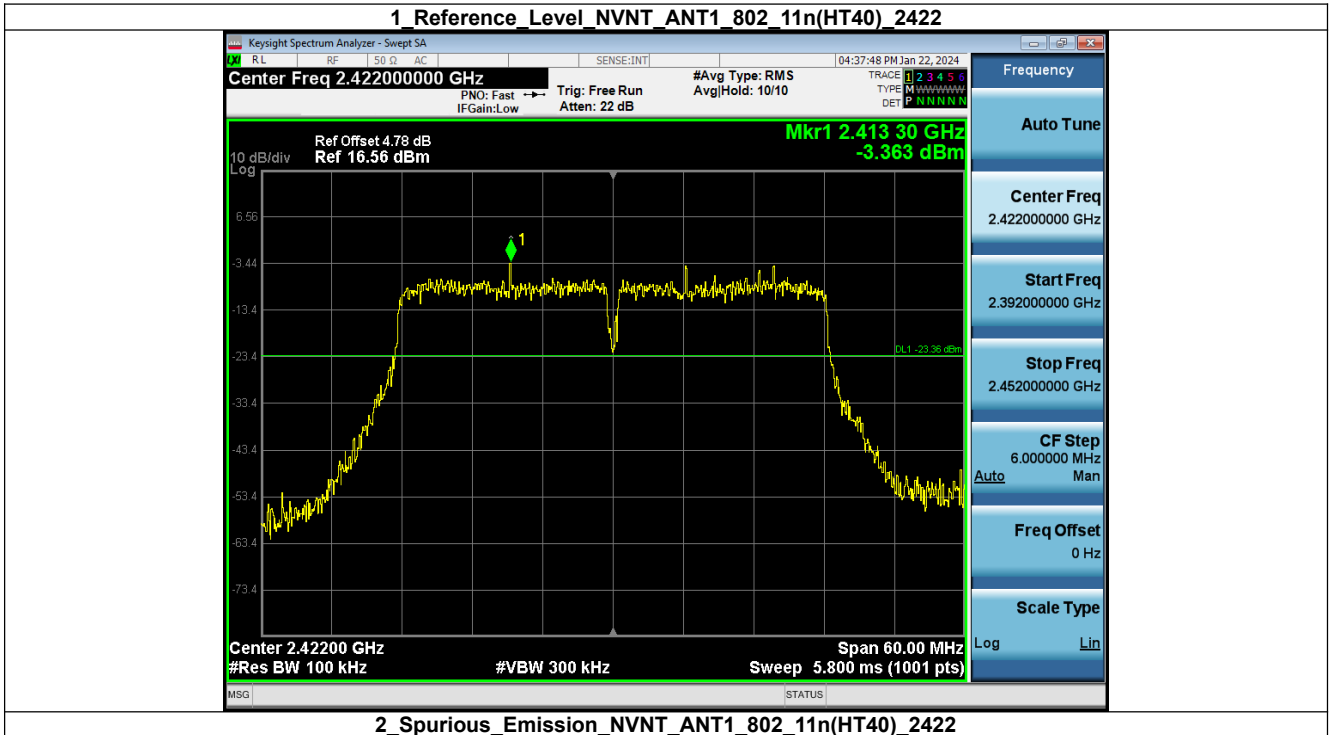
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



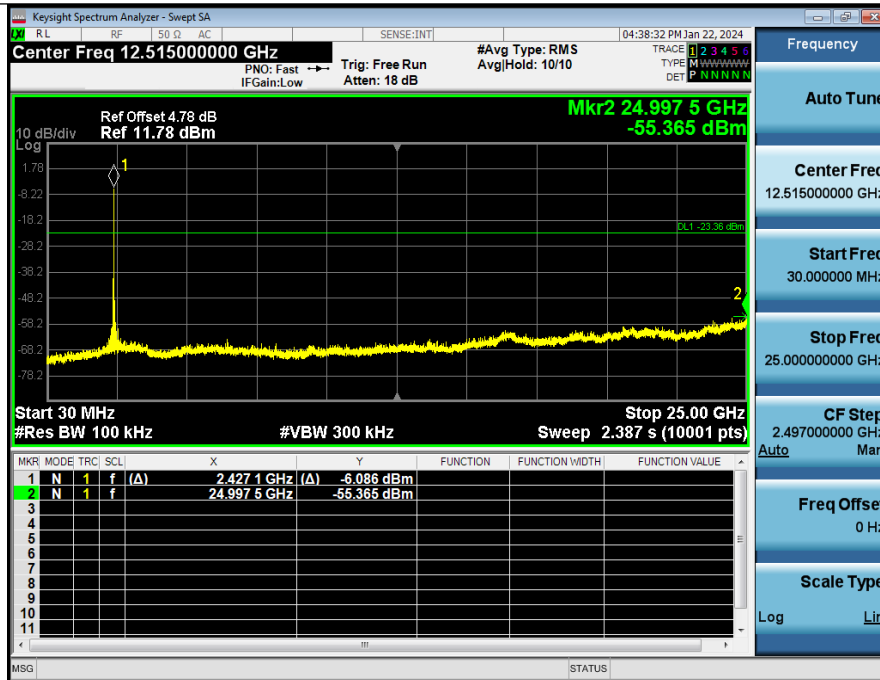
2 Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



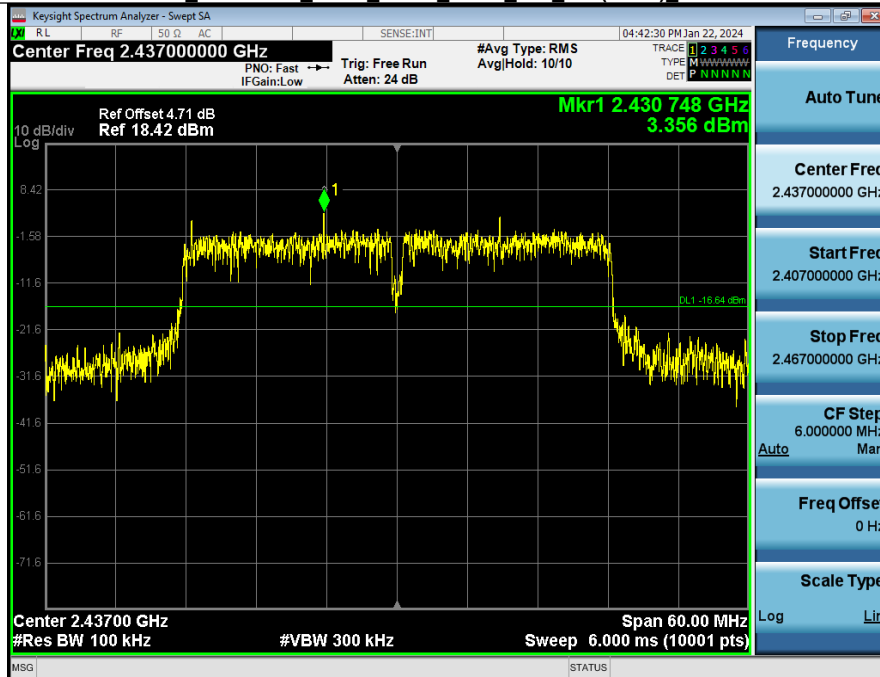
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2422



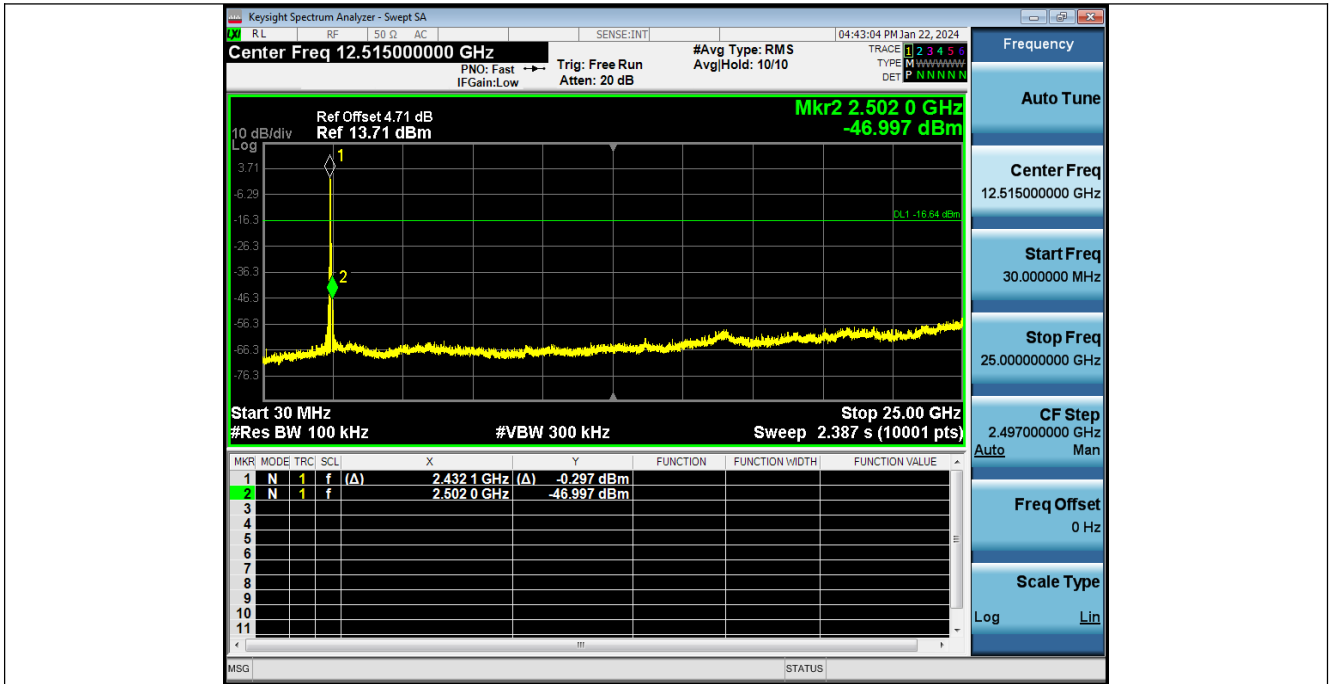
2_Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



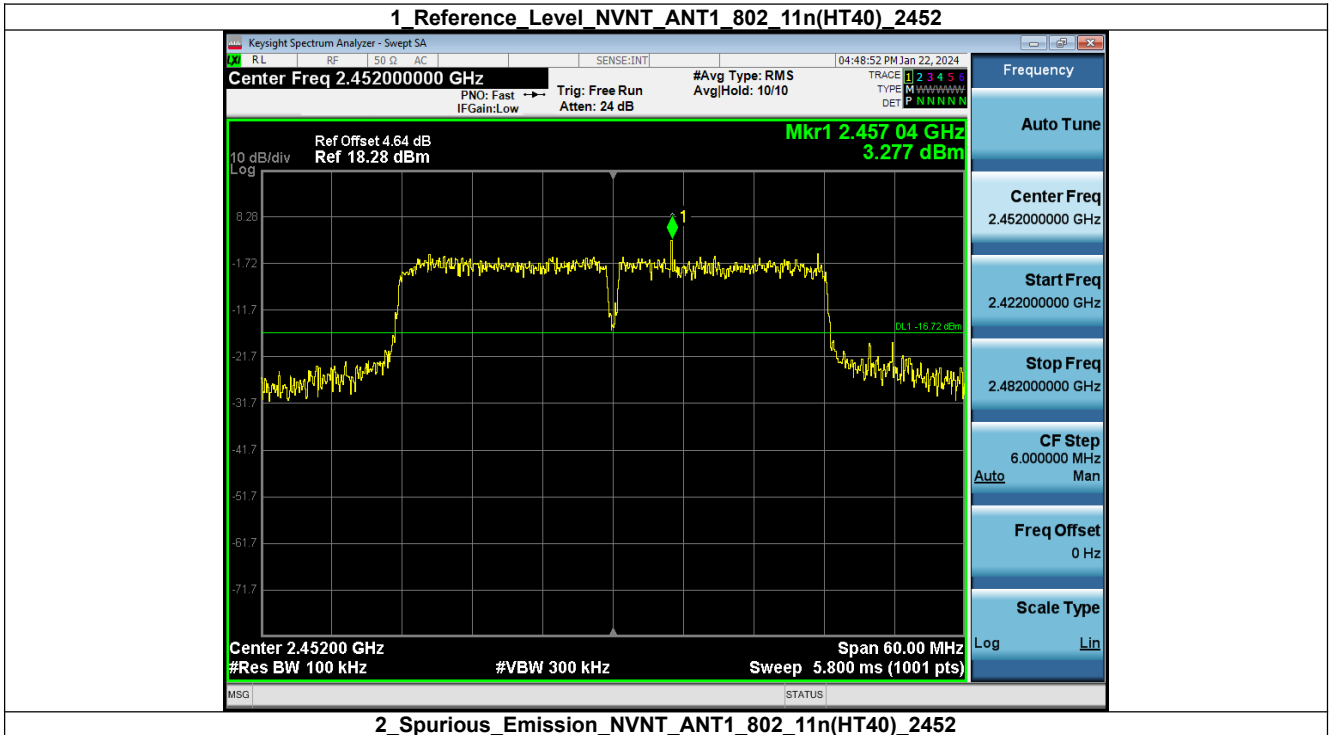
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2437



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

