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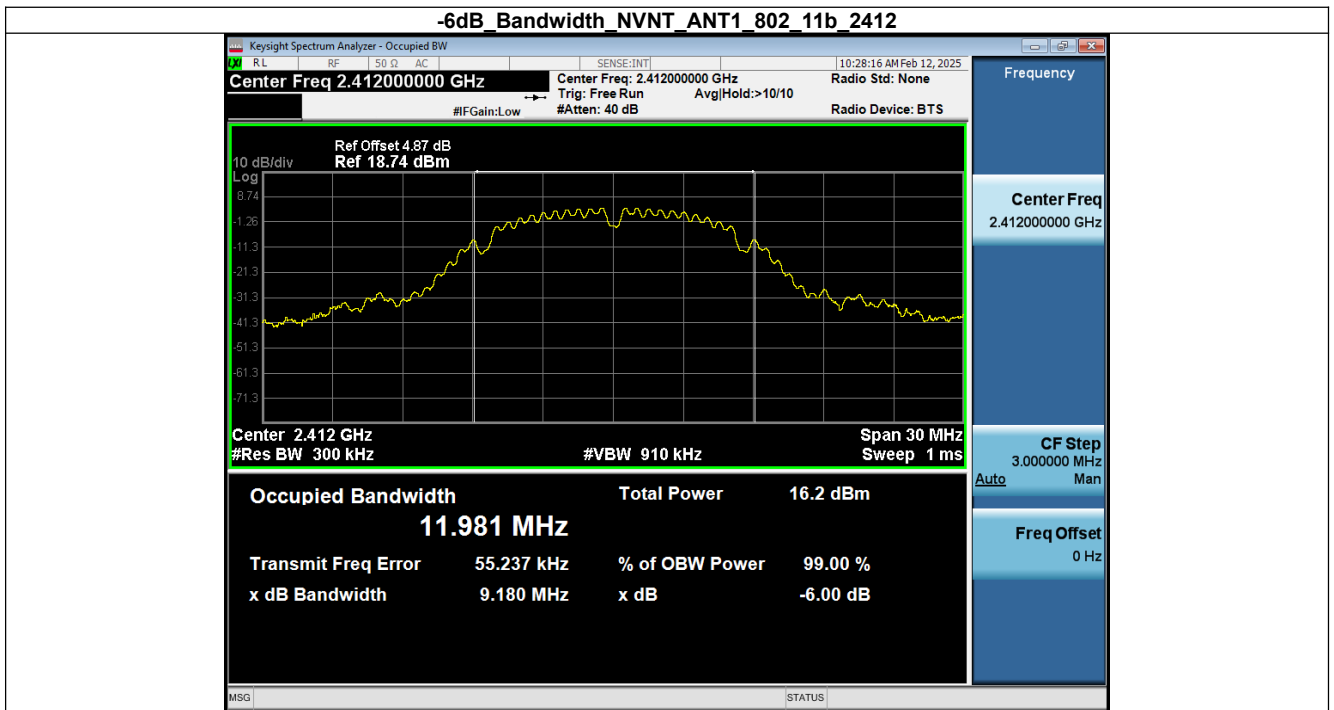
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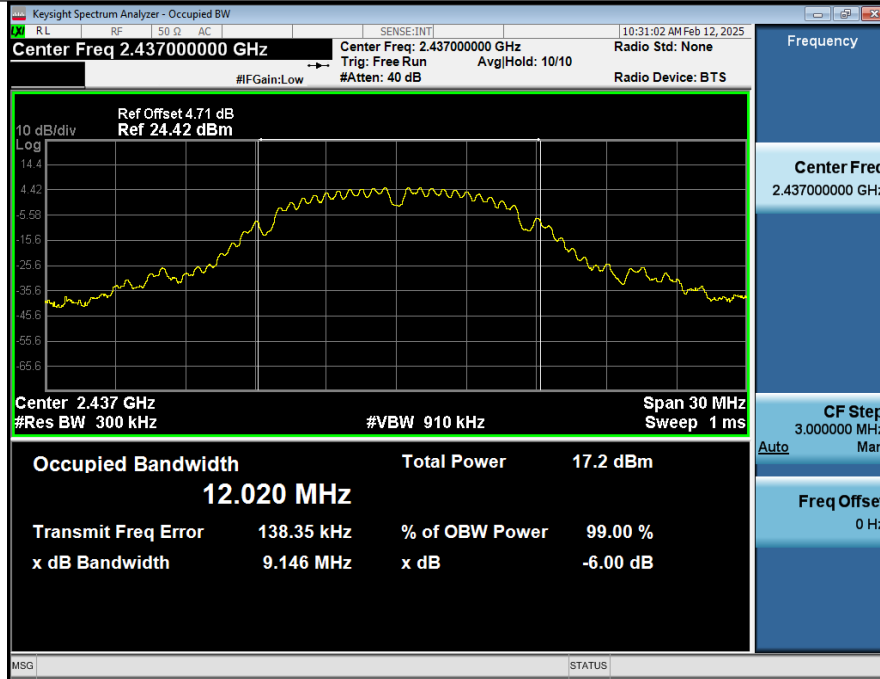
FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

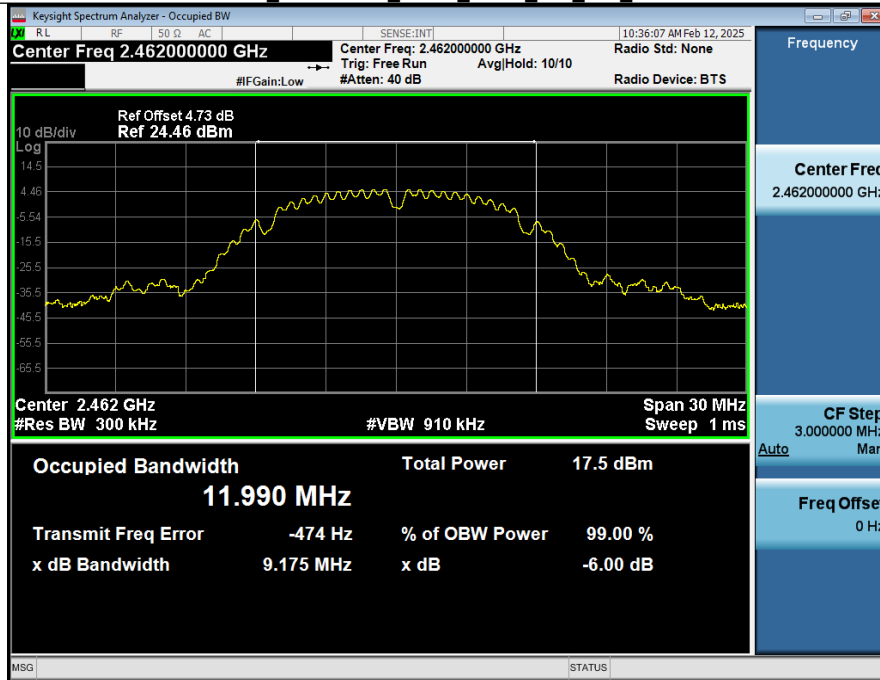
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.18	500	Pass
NVNT	ANT1	802.11b	2437.00	9.15	500	Pass
NVNT	ANT1	802.11b	2462.00	9.17	500	Pass
NVNT	ANT1	802.11g	2412.00	16.34	500	Pass
NVNT	ANT1	802.11g	2437.00	16.38	500	Pass
NVNT	ANT1	802.11g	2462.00	16.42	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.34	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.19	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.38	500	Pass



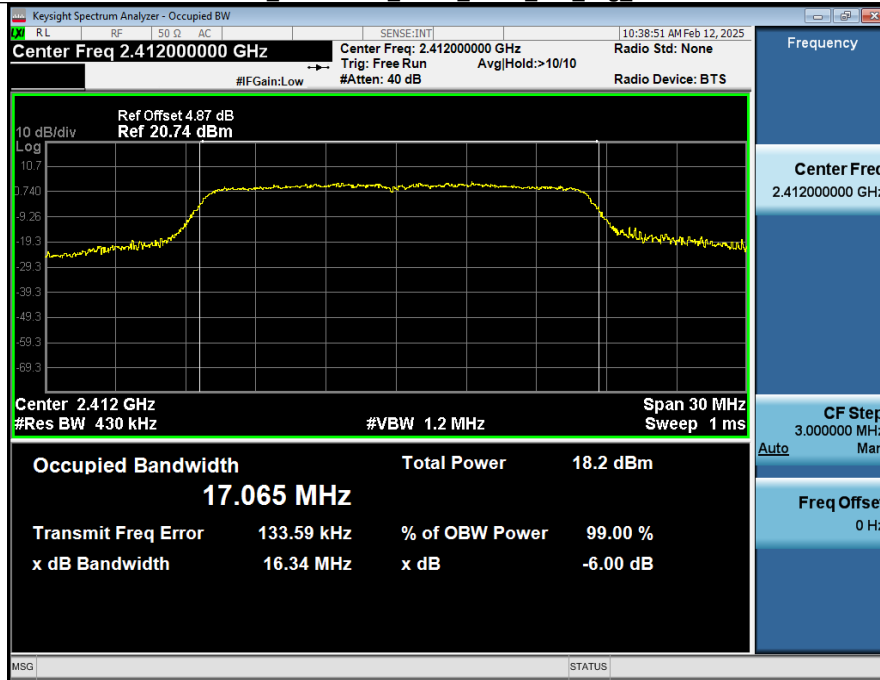
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



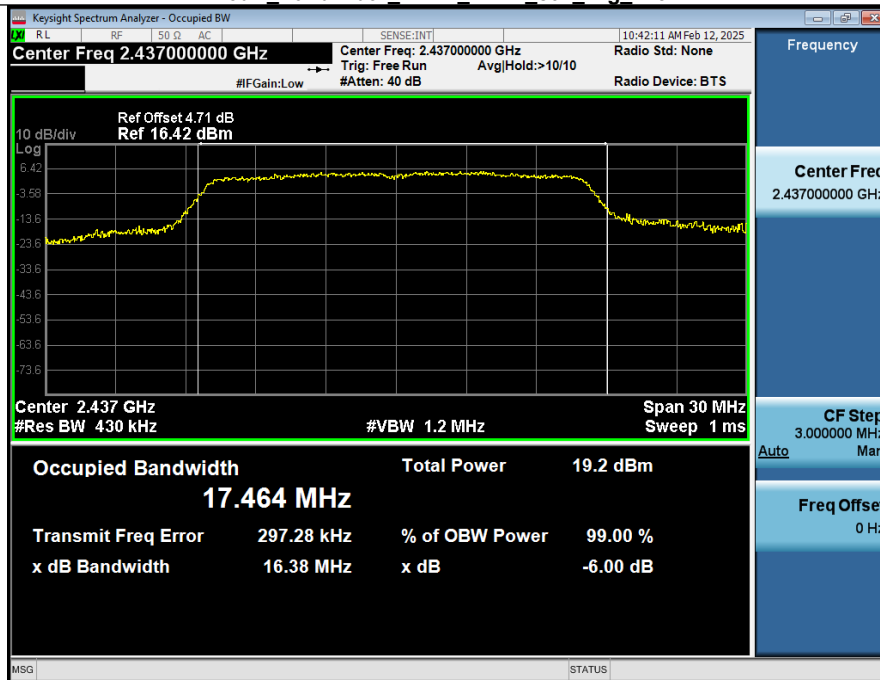
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



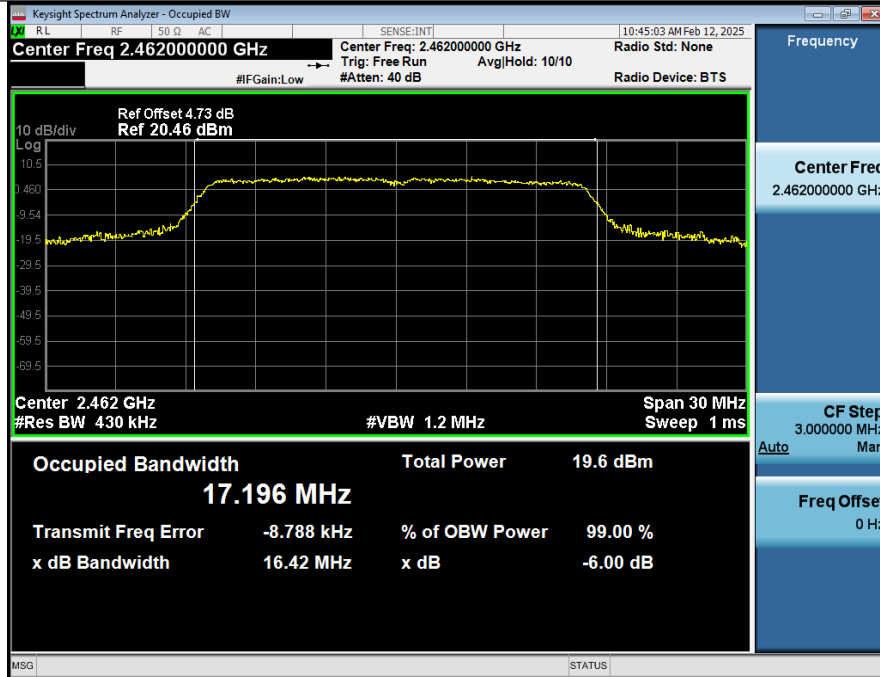
-6dB Bandwidth NVNT_ANT1_802_11g_2412



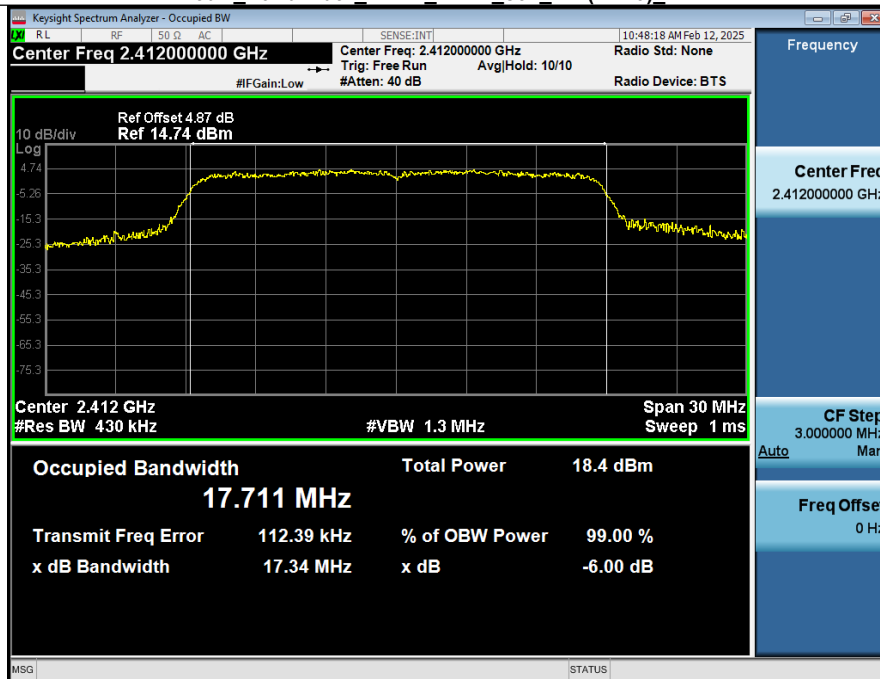
-6dB Bandwidth NVNT_ANT1_802_11g_2437



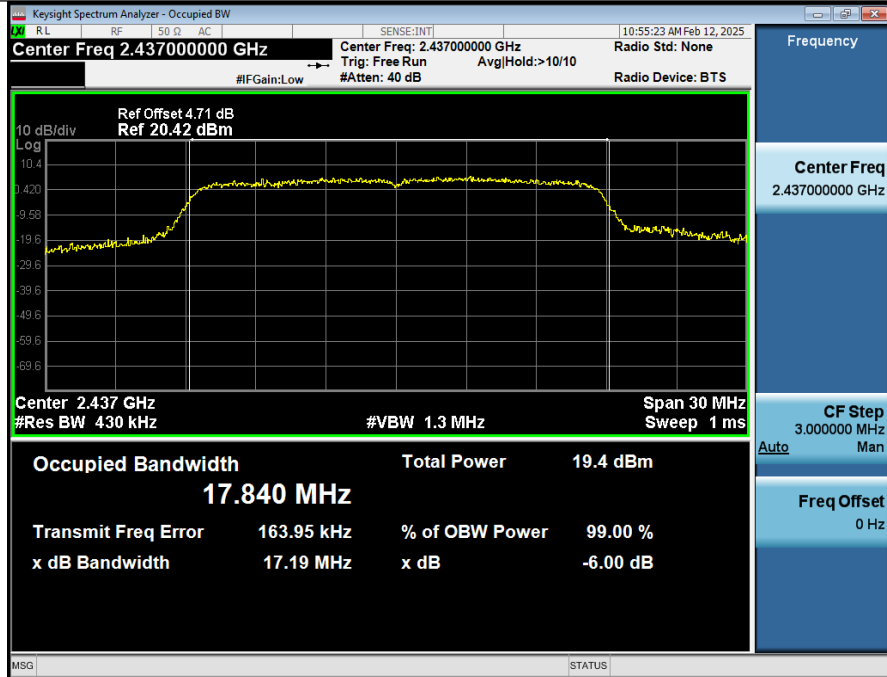
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



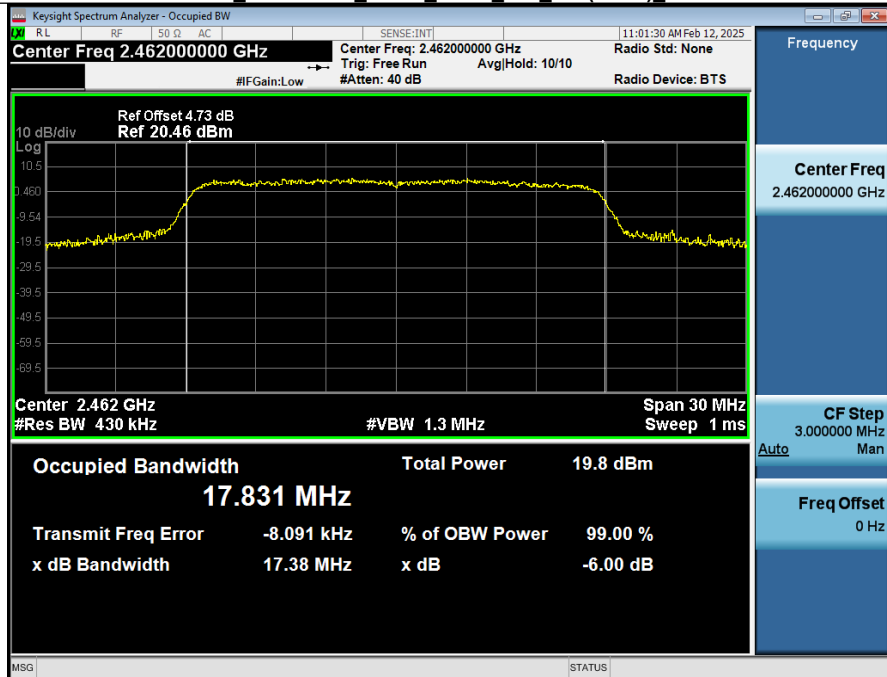
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

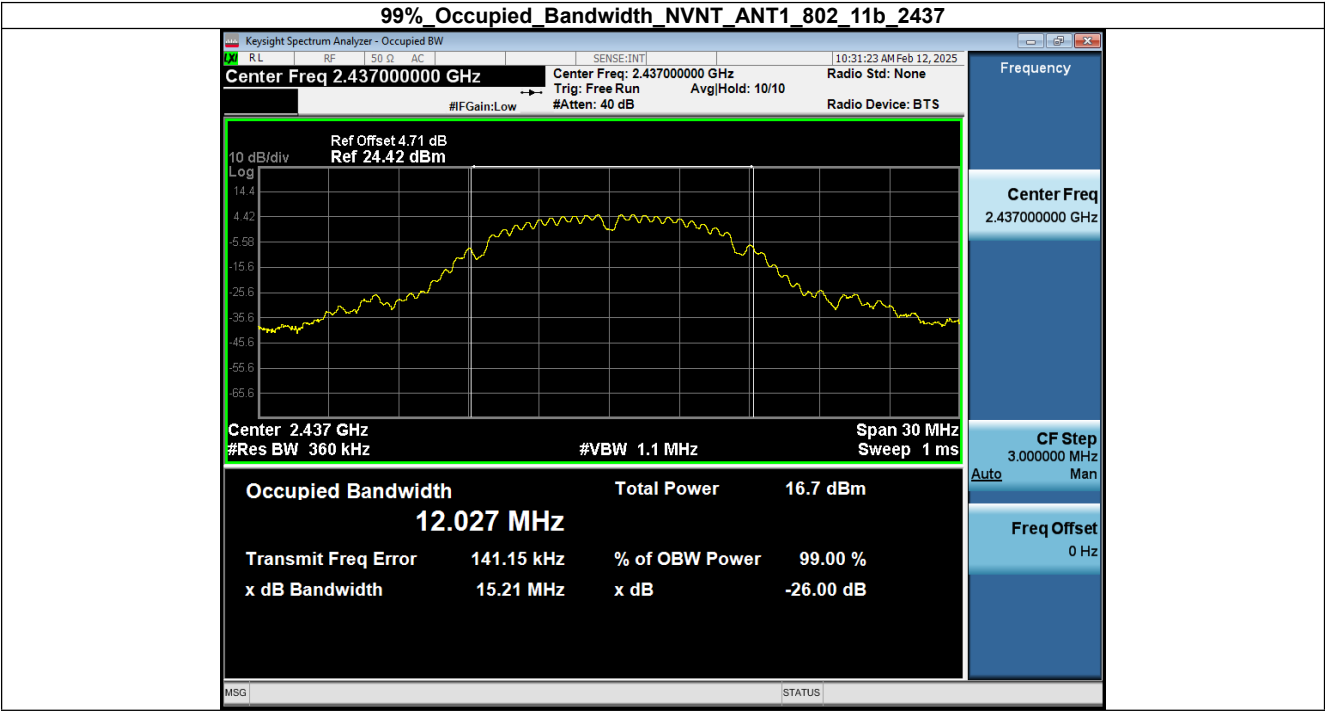
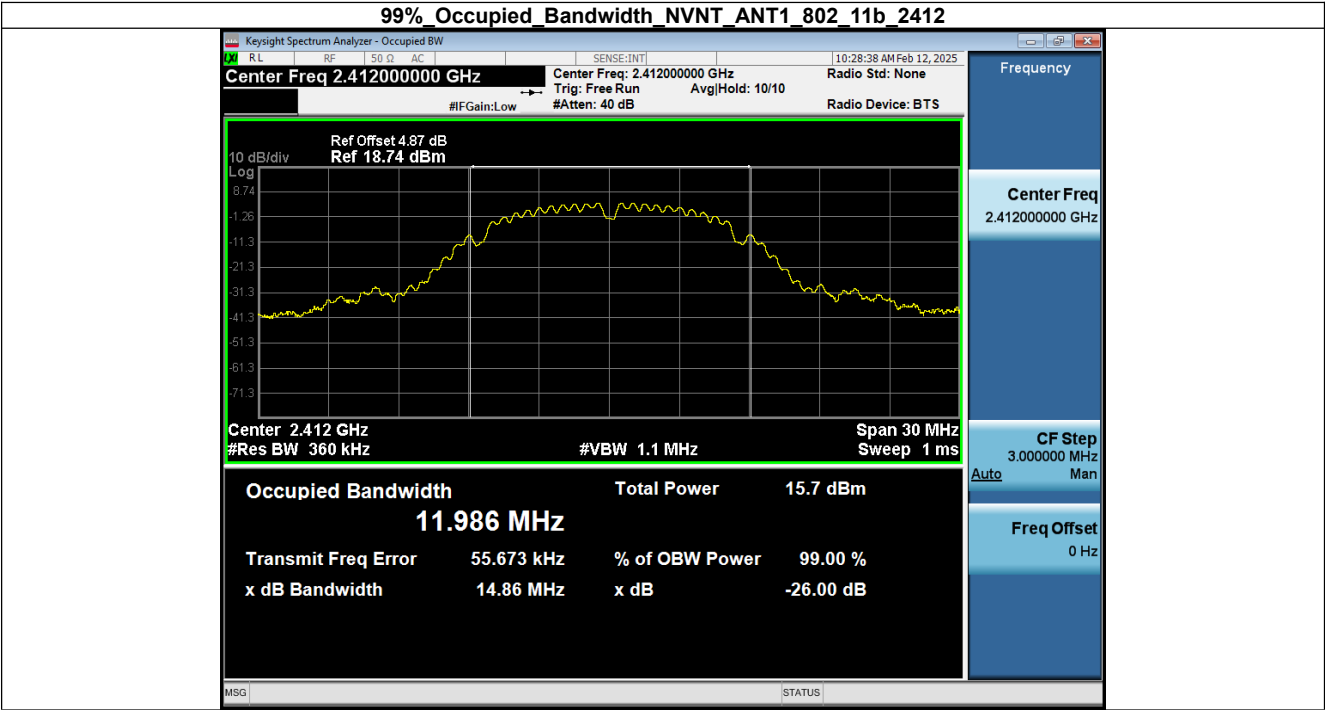


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

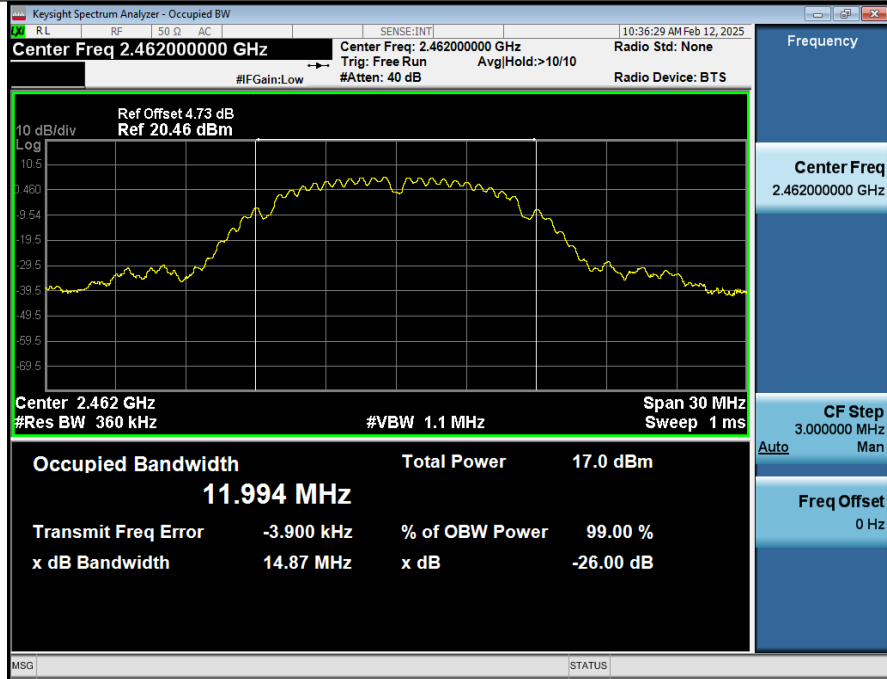


2. 99% Occupied Bandwidth

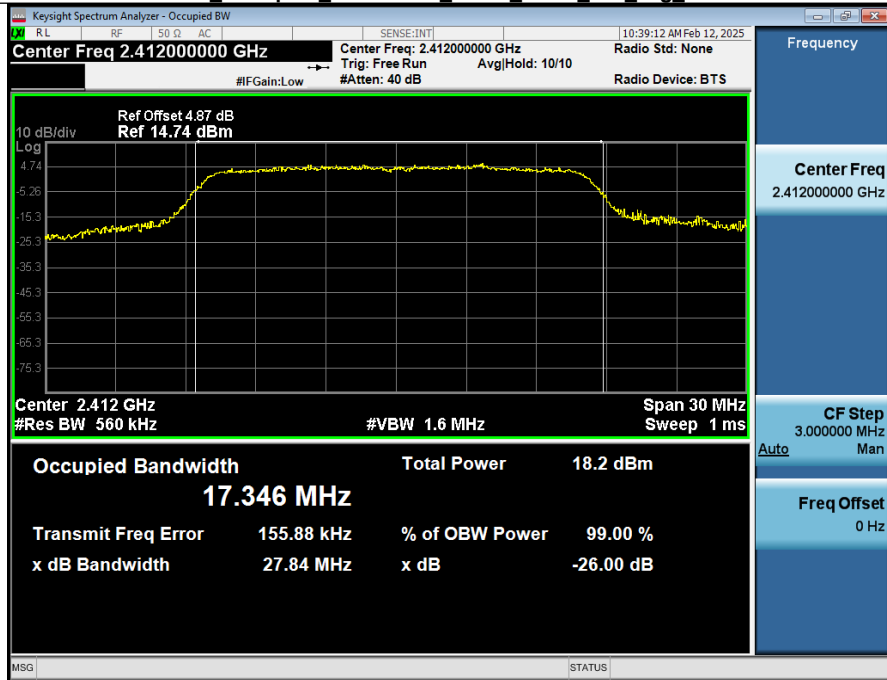
Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.986
NVNT	ANT1	802.11b	2437.00	12.027
NVNT	ANT1	802.11b	2462.00	11.994
NVNT	ANT1	802.11g	2412.00	17.346
NVNT	ANT1	802.11g	2437.00	18.054
NVNT	ANT1	802.11g	2462.00	17.603
NVNT	ANT1	802.11n(HT20)	2412.00	17.778
NVNT	ANT1	802.11n(HT20)	2437.00	18.033
NVNT	ANT1	802.11n(HT20)	2462.00	17.976



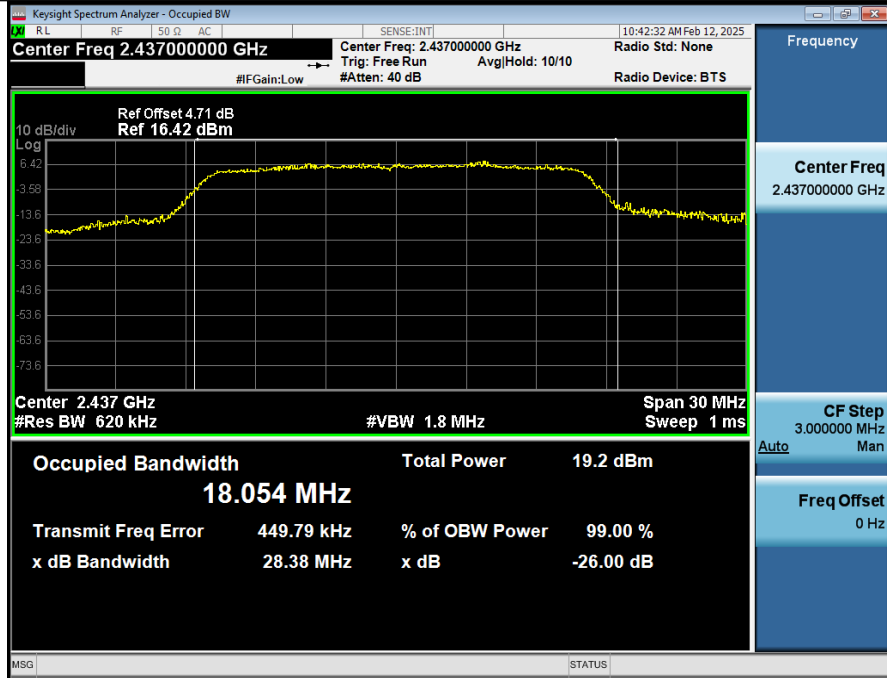
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



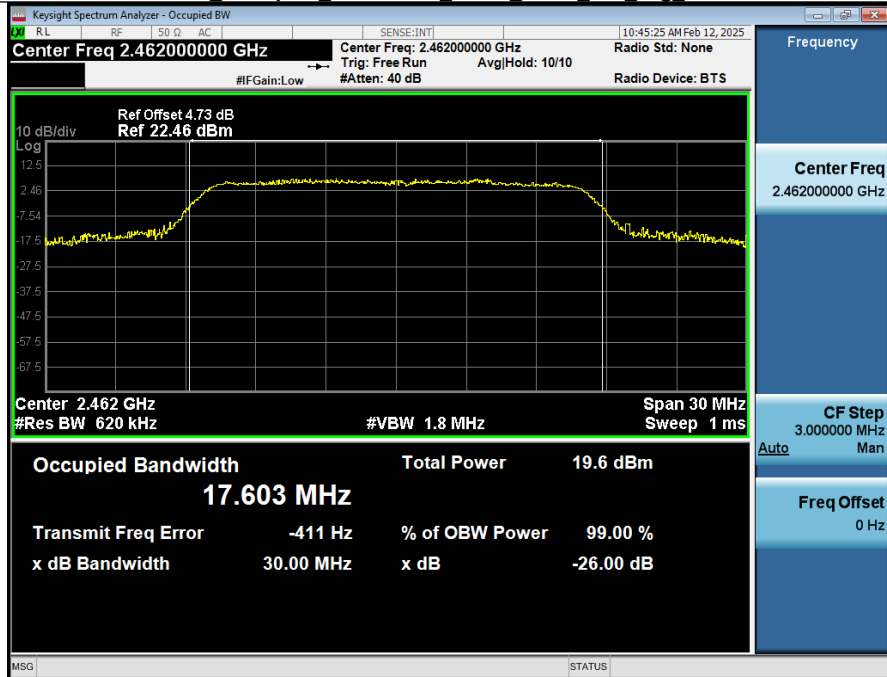
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



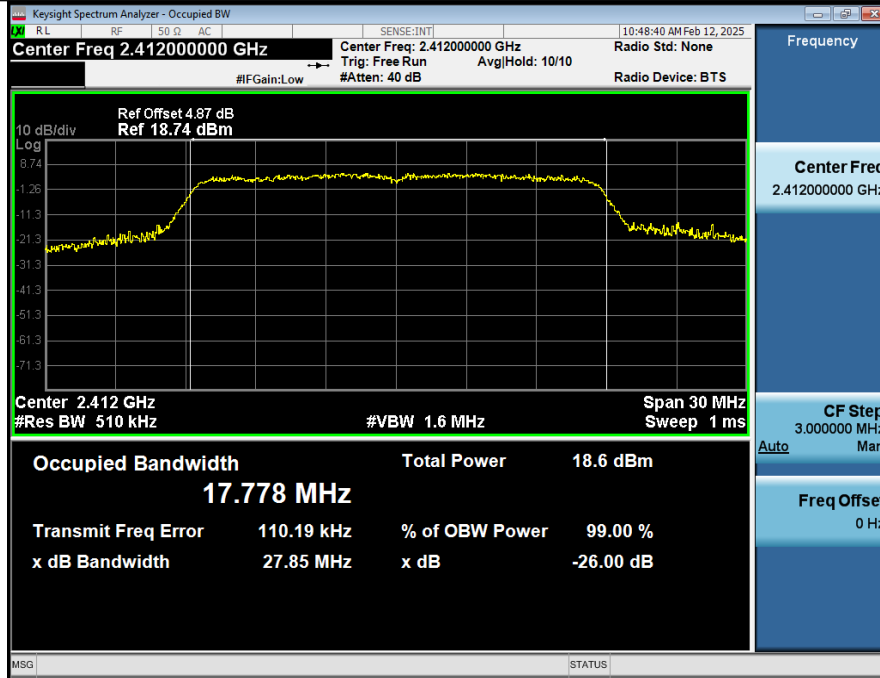
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437



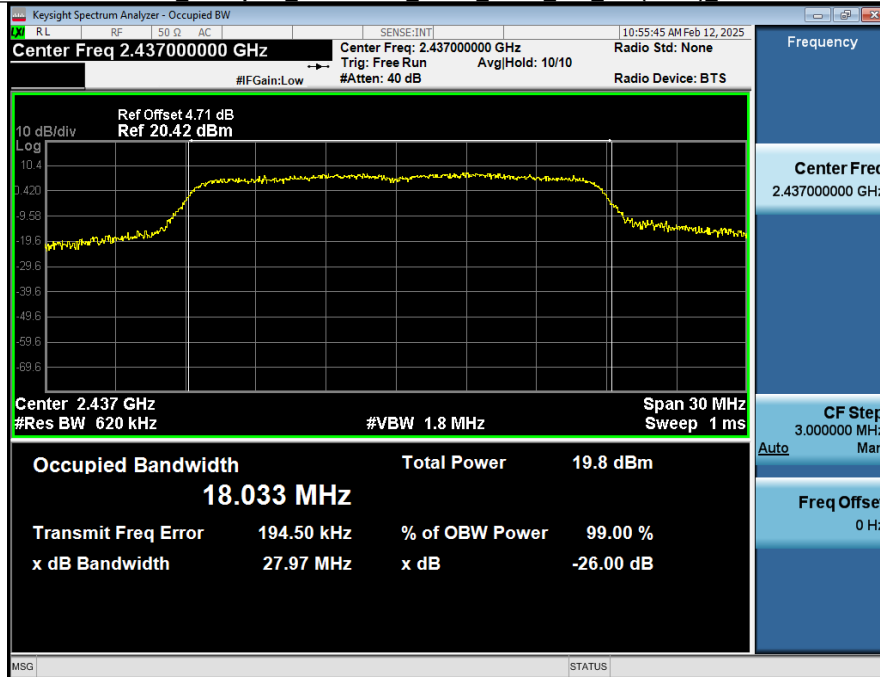
99% Occupied Bandwidth NVNT_ANT1_802_11g_2462

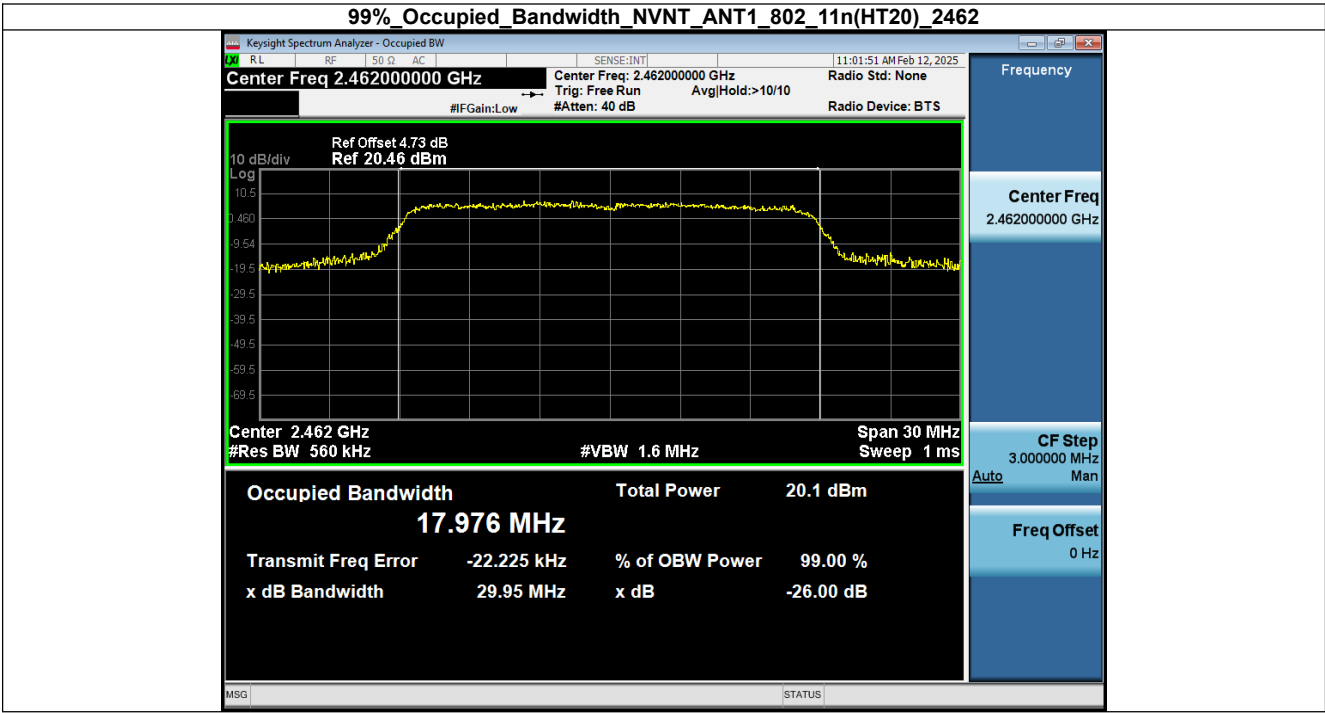


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412



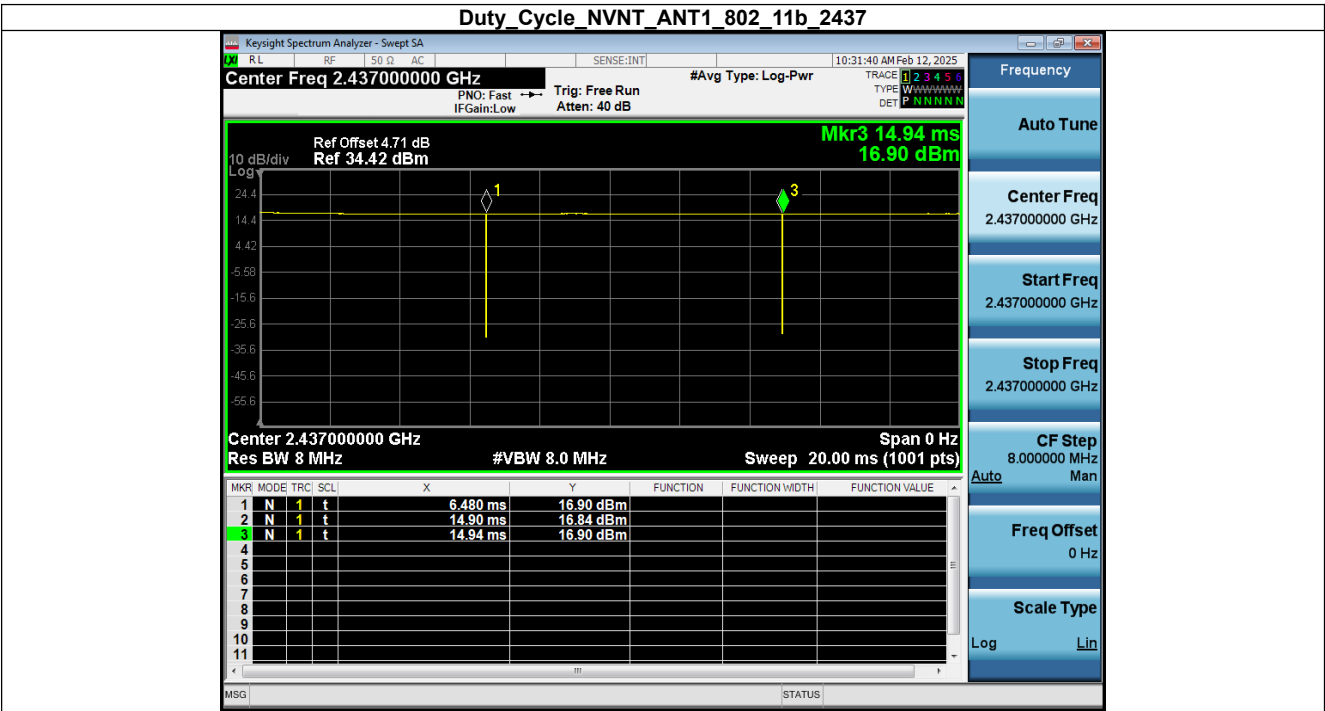
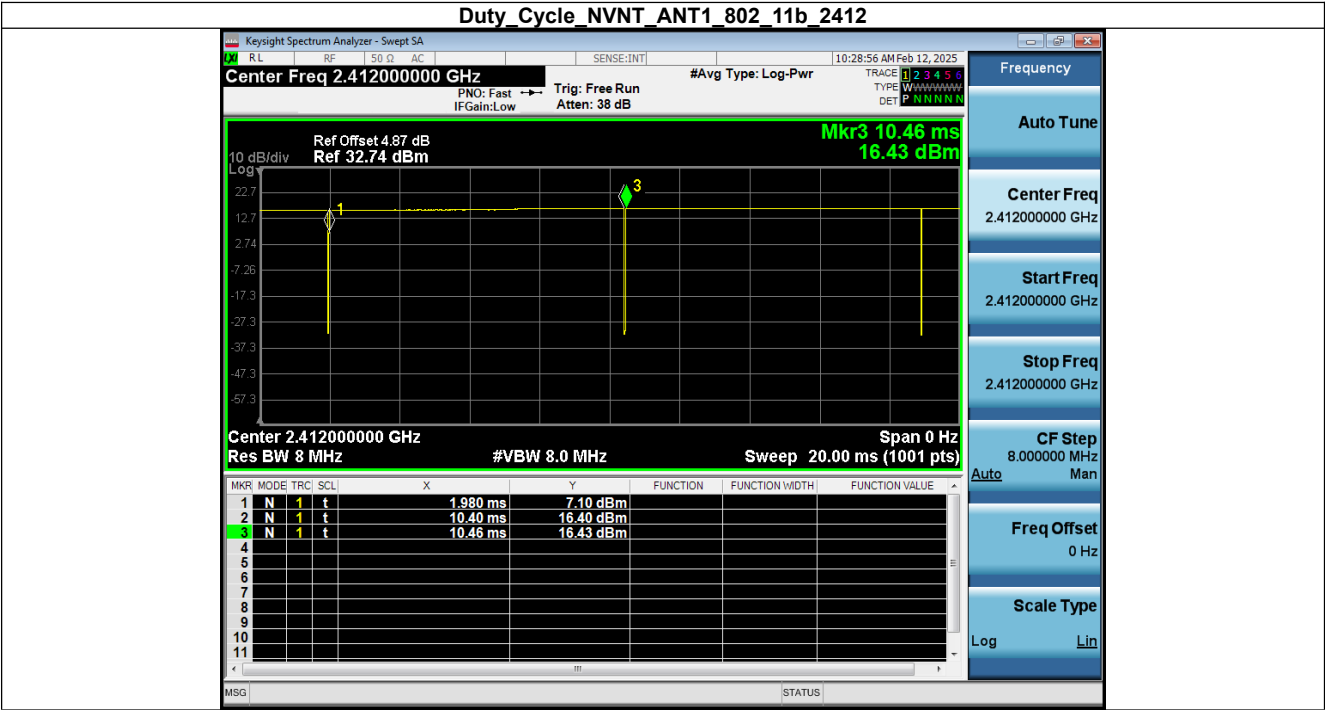
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2437



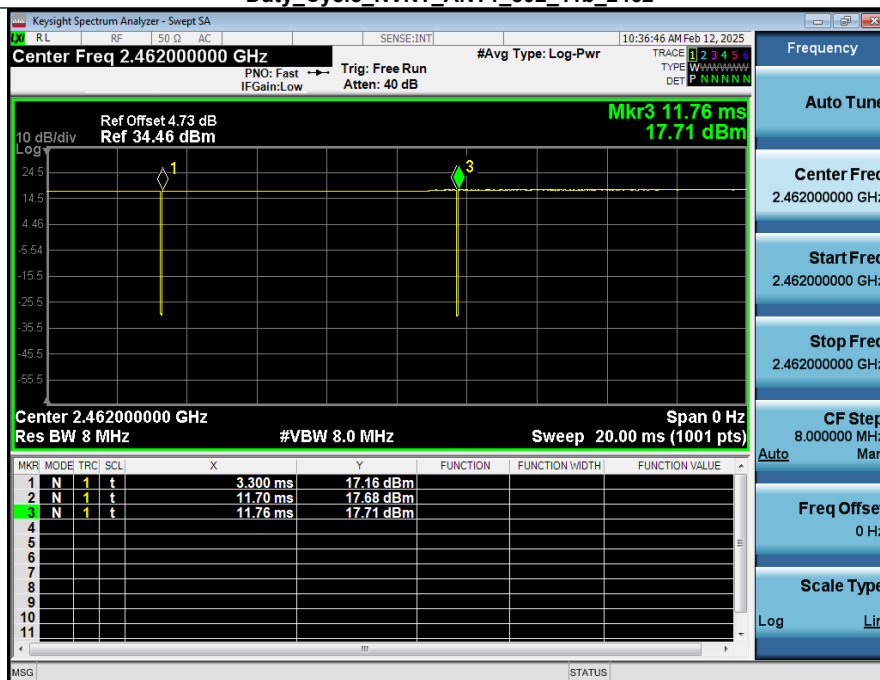


3. Duty Cycle

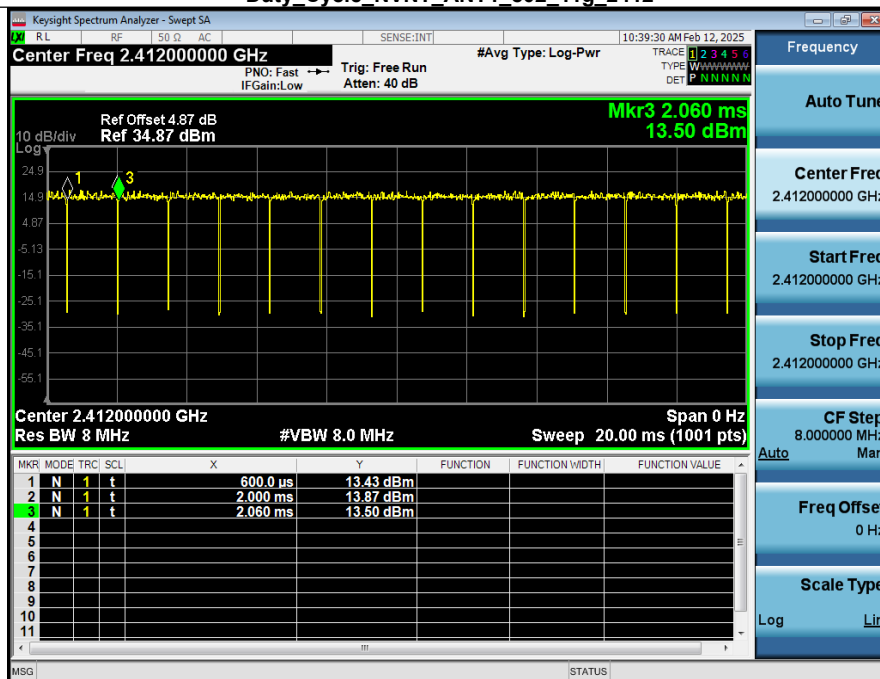
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.53	0.00
NVNT	ANT1	802.11b	2437.00	99.76	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	98.61	0.00
NVNT	ANT1	802.11g	2462.00	98.61	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2437.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2462.00	98.36	0.00



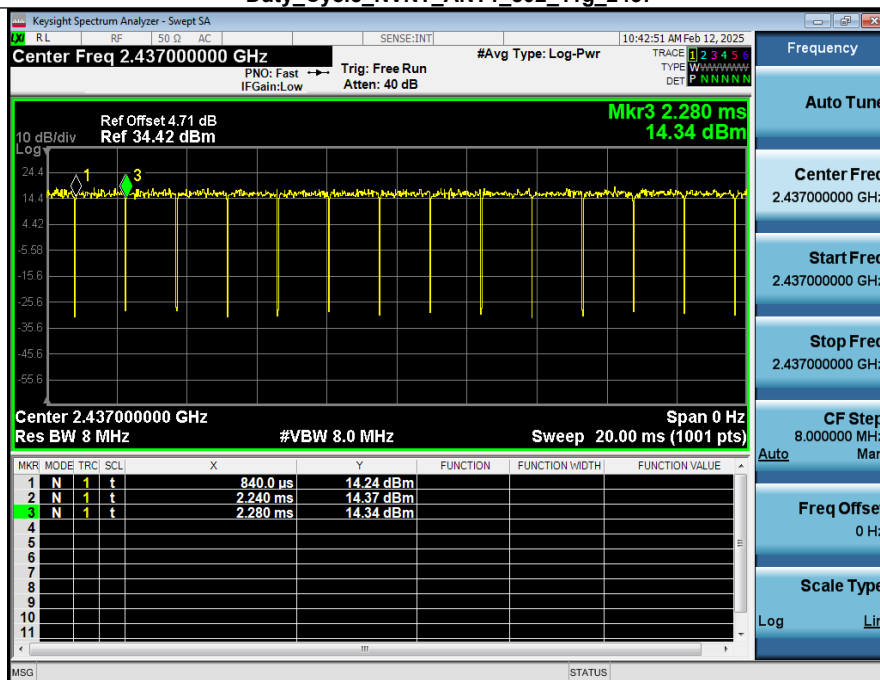
Duty Cycle NVNT_ANT1_802_11b_2462



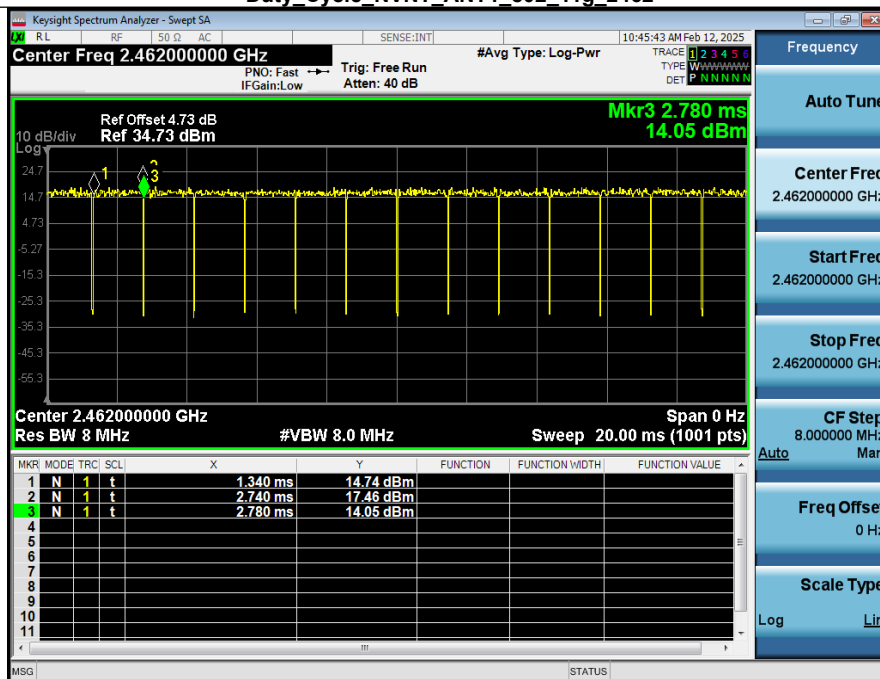
Duty Cycle NVNT_ANT1_802_11g_2412



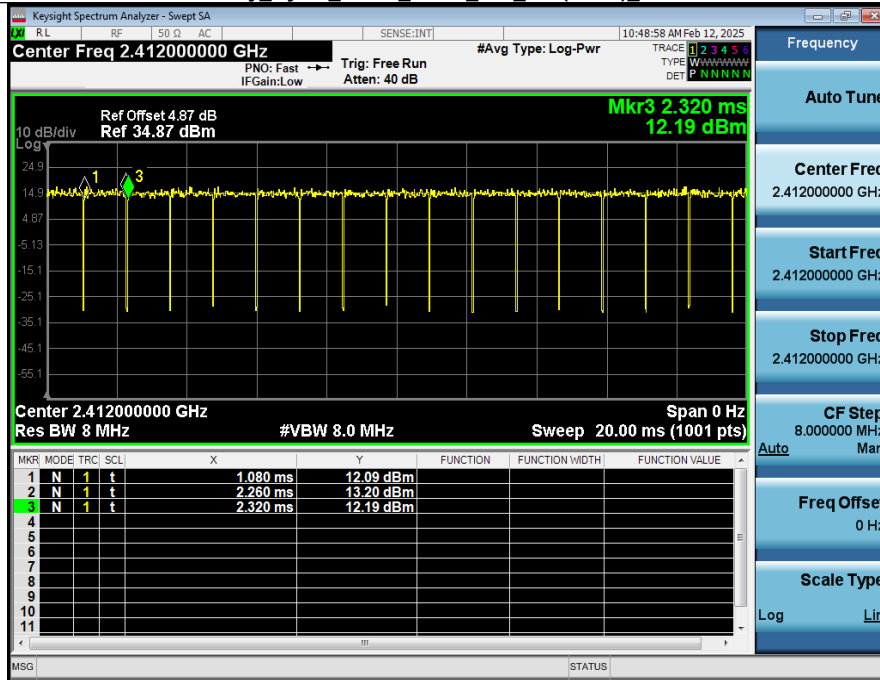
Duty Cycle NVNT_ANT1_802_11g_2437



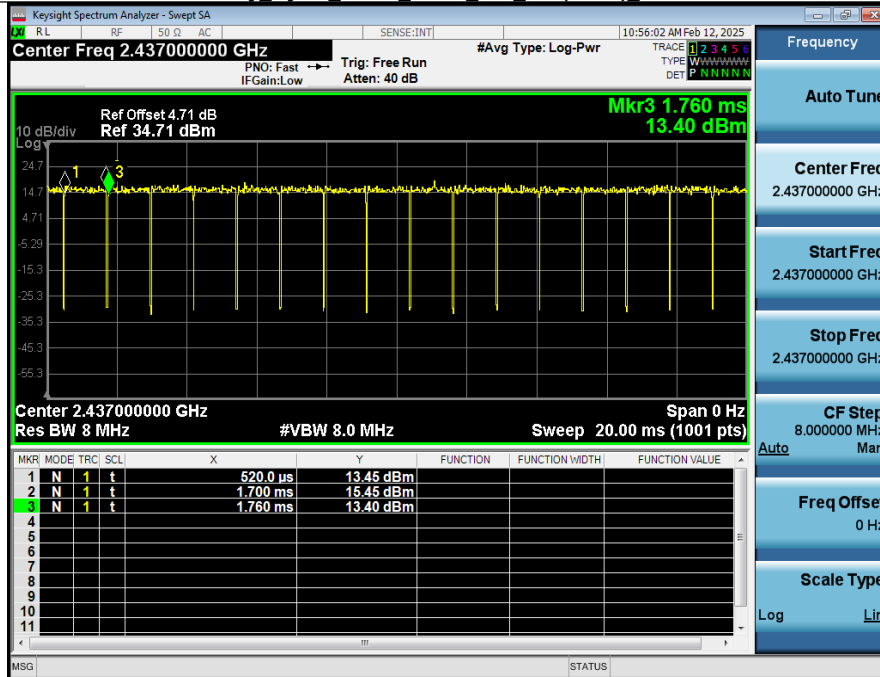
Duty Cycle NVNT_ANT1_802_11g_2462



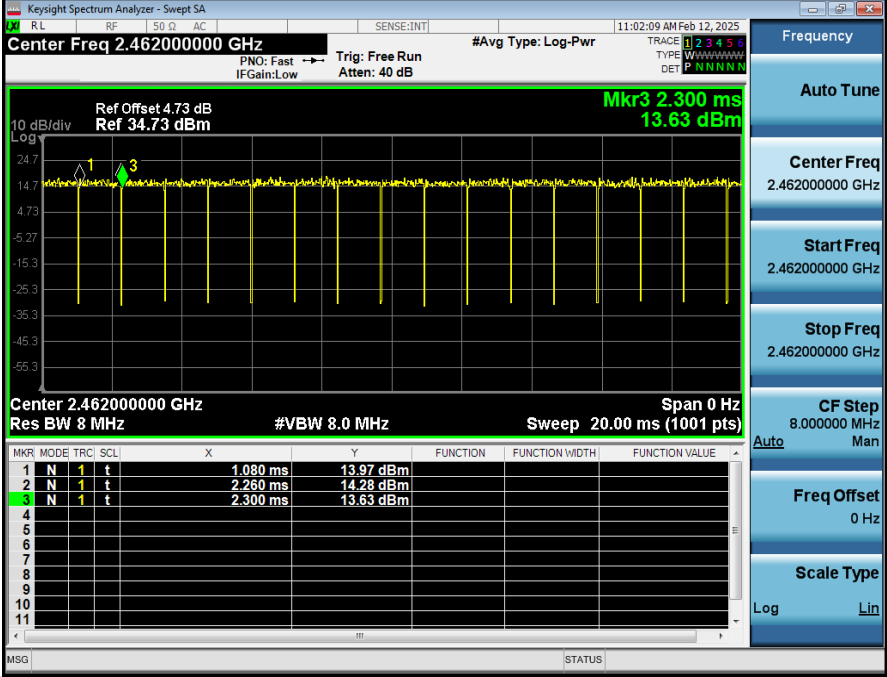
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



Duty Cycle NVNT_ANT1_802_11n(HT20)_2462

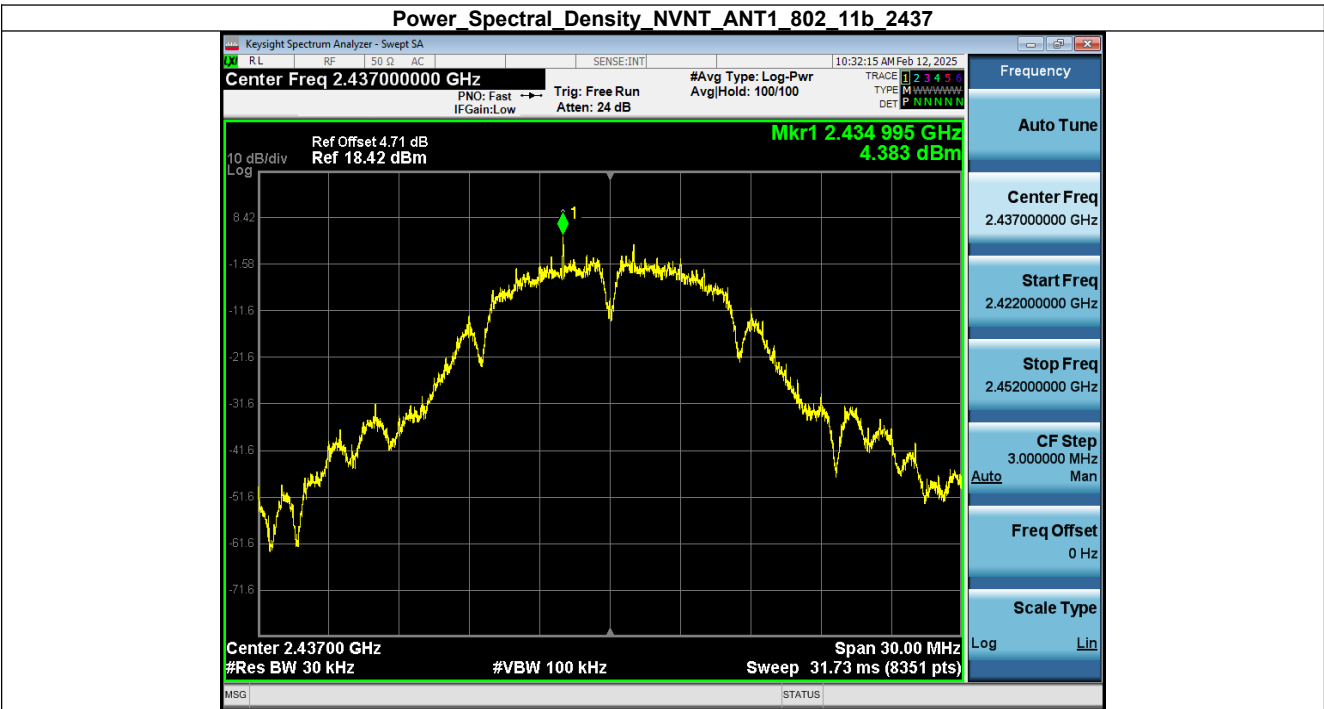
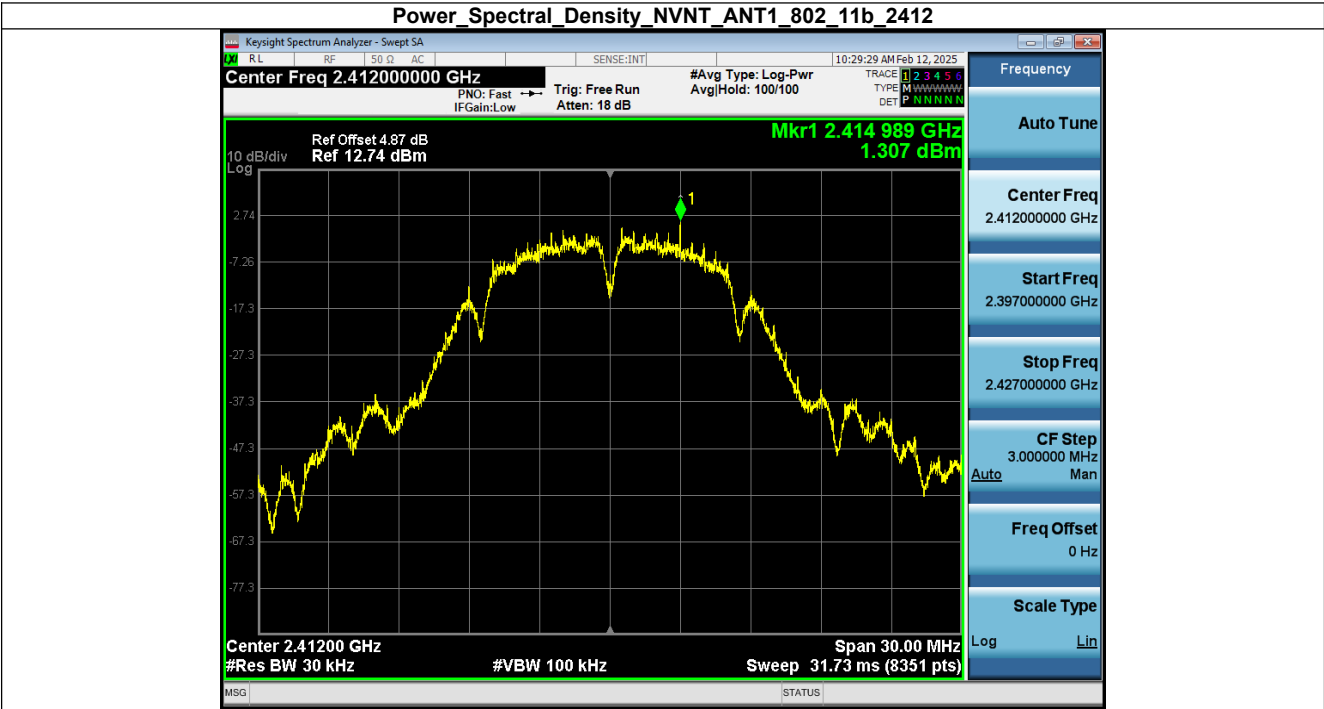


4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Max Output Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	7.32	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	7.56	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	6.87	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	7.81	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	7.83	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	8.23	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	7.78	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	8.36	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	8.45	30	Pass

5. Power Spectral Density

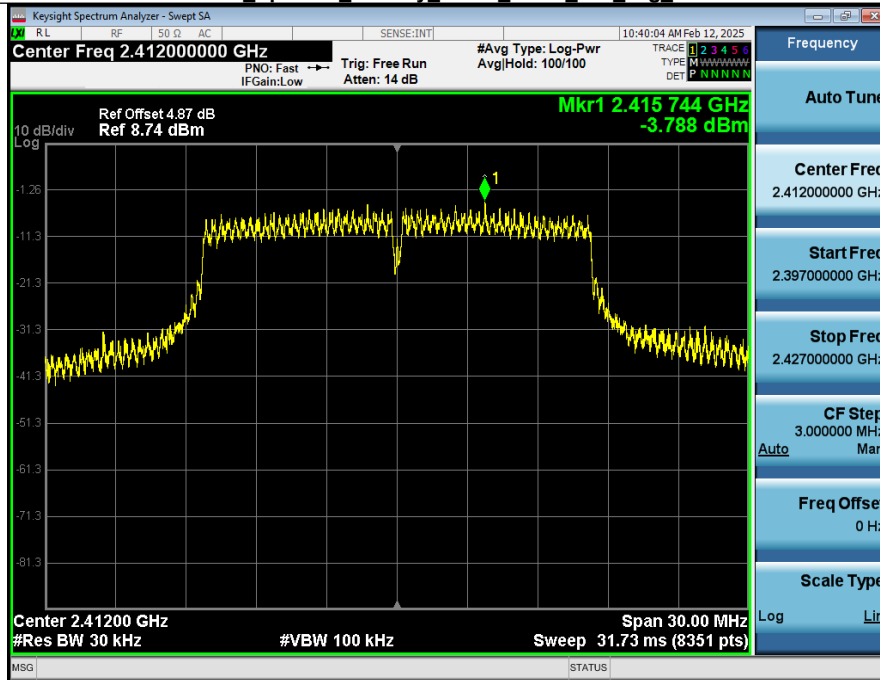
Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.31	-10.00	-8.69	8	Pass
NVNT	ANT1	802.11b	2437.00	4.38	-10.00	-5.62	8	Pass
NVNT	ANT1	802.11b	2462.00	1.08	-10.00	-8.92	8	Pass
NVNT	ANT1	802.11g	2412.00	-3.79	-10.00	-13.79	8	Pass
NVNT	ANT1	802.11g	2437.00	-3.03	-10.00	-13.03	8	Pass
NVNT	ANT1	802.11g	2462.00	-2.85	-10.00	-12.85	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-5.21	-10.00	-15.21	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-3.96	-10.00	-13.96	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-3.67	-10.00	-13.67	8	Pass



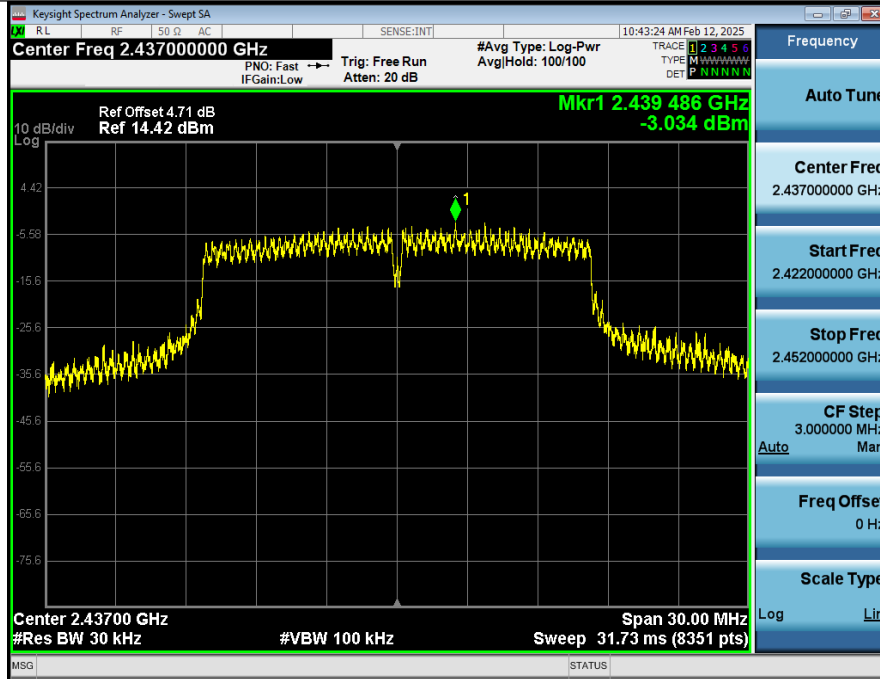
Power Spectral Density NVNT_ANT1_802_11b_2462



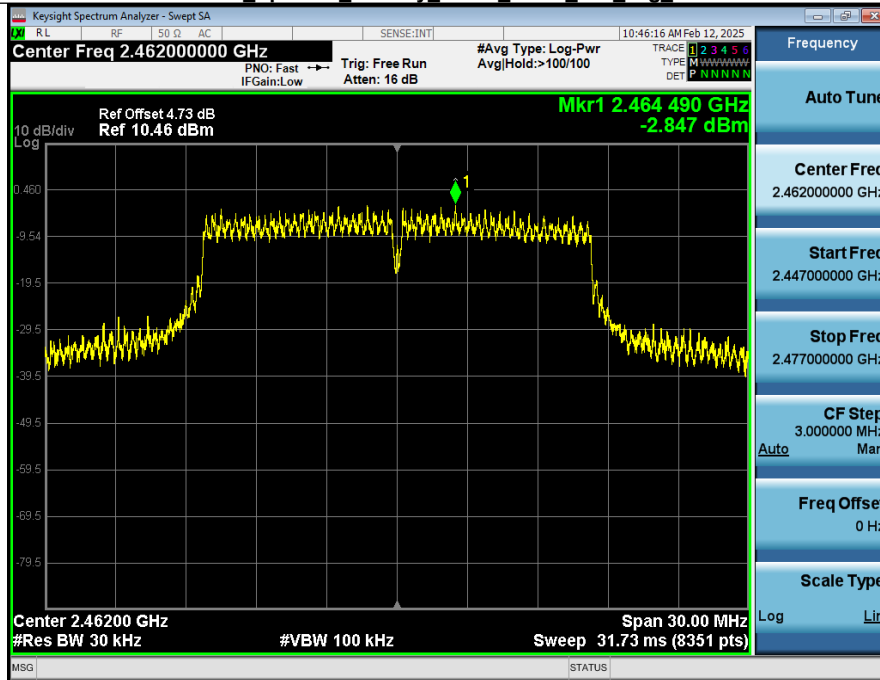
Power Spectral Density NVNT_ANT1_802_11g_2412



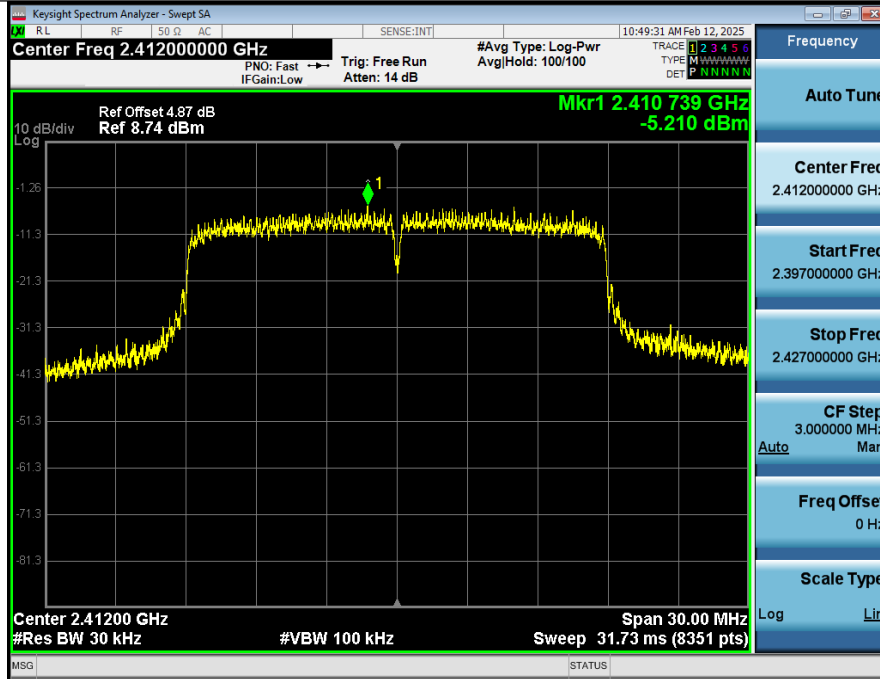
Power Spectral Density NVNT_ANT1_802_11g_2437



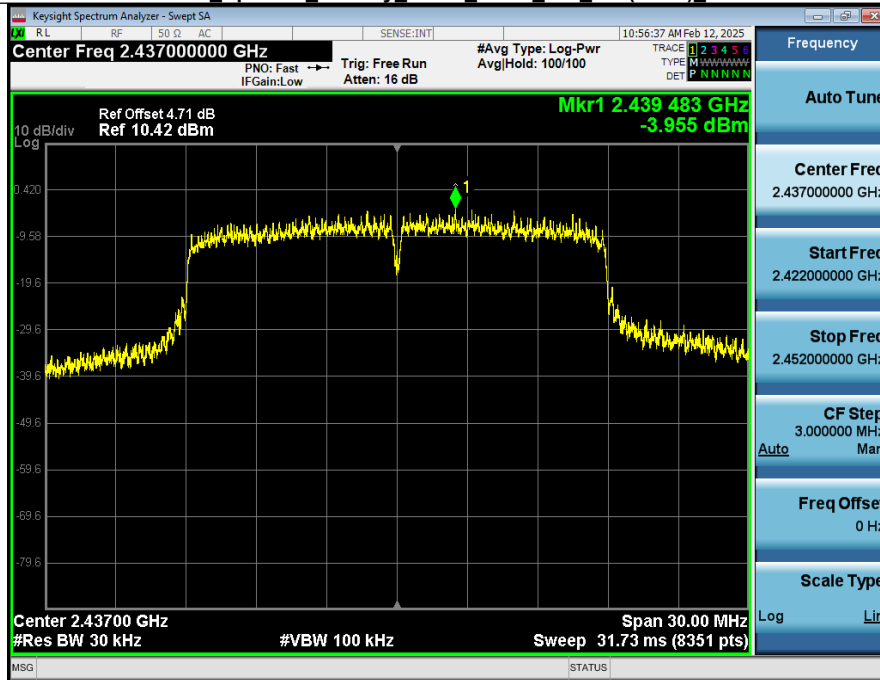
Power Spectral Density NVNT_ANT1_802_11g_2462



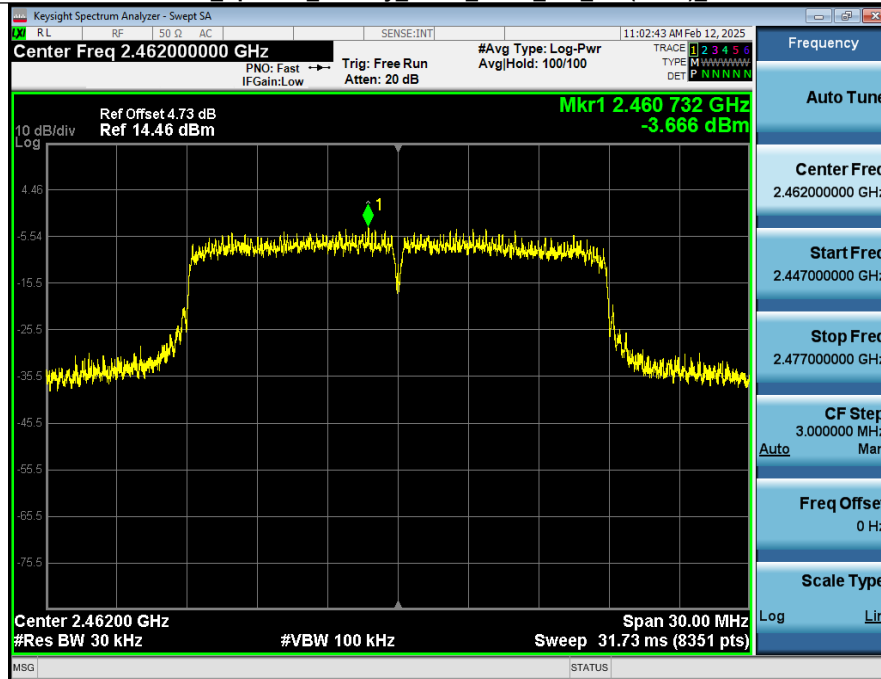
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2412



Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2437

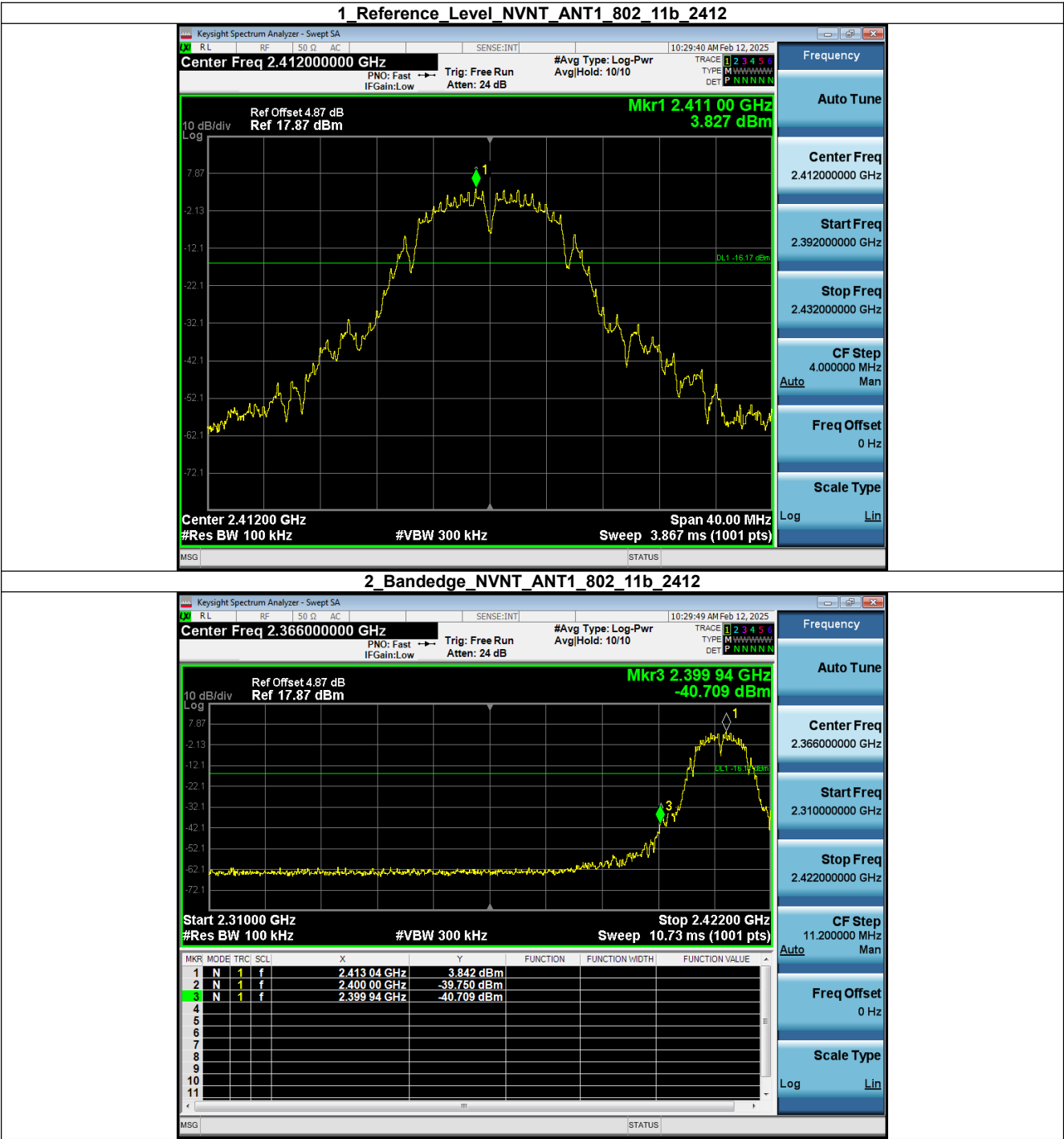


Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2462



6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	3.827	-40.709	-16.173	Pass
NVNT	ANT1	802.11b	2462.00	2483.584	5.199	-55.792	-14.801	Pass
NVNT	ANT1	802.11g	2412.00	2399.712	-0.327	-29.324	-20.327	Pass
NVNT	ANT1	802.11g	2462.00	2484.496	1.887	-39.299	-18.113	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.936	-0.387	-31.386	-20.387	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.872	1.087	-37.328	-18.913	Pass



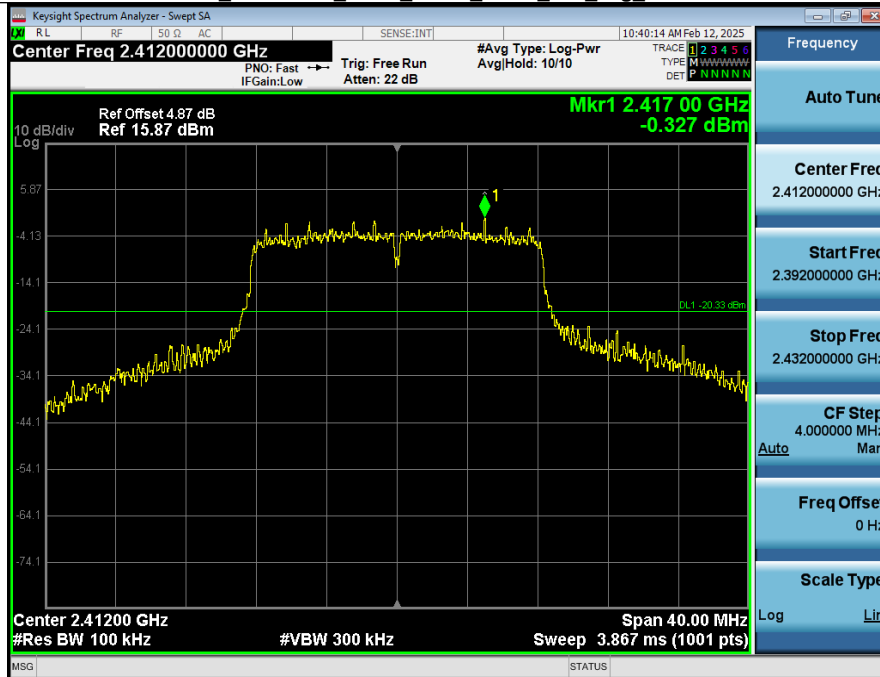
1 Reference Level_NVNT_ANT1_802_11b_2462



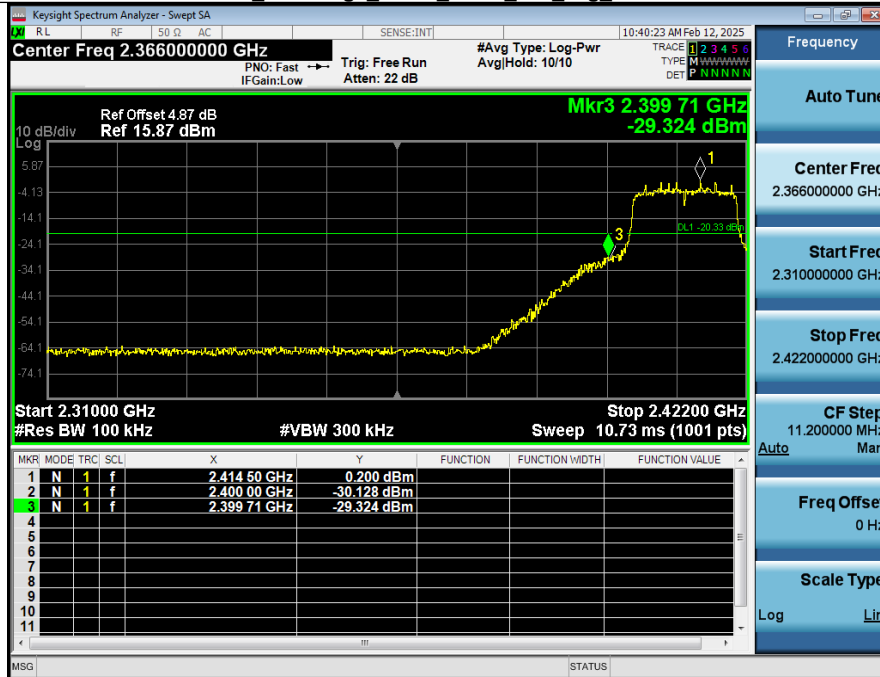
2 Bandedge_NVNT_ANT1_802_11b_2462



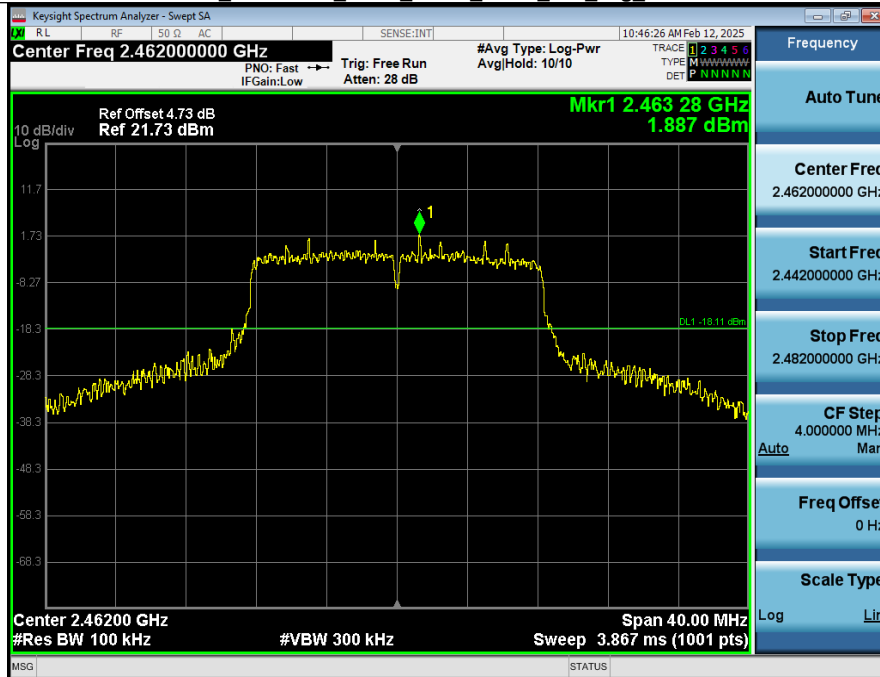
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2 Bandedge NVNT_ANT1_802_11g_2412



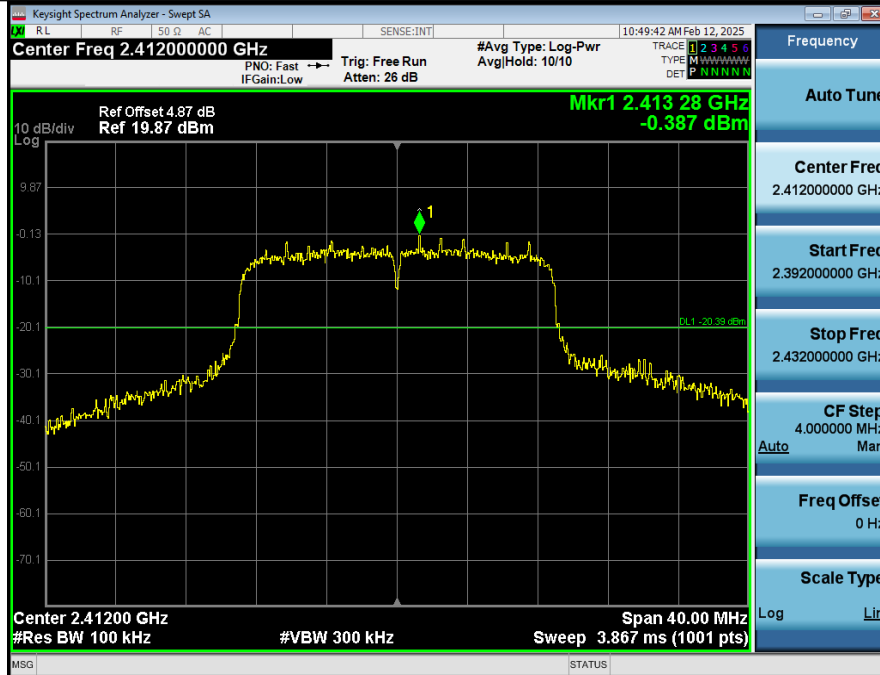
1_Reference_Level_NVNT_ANT1_802_11g_2462



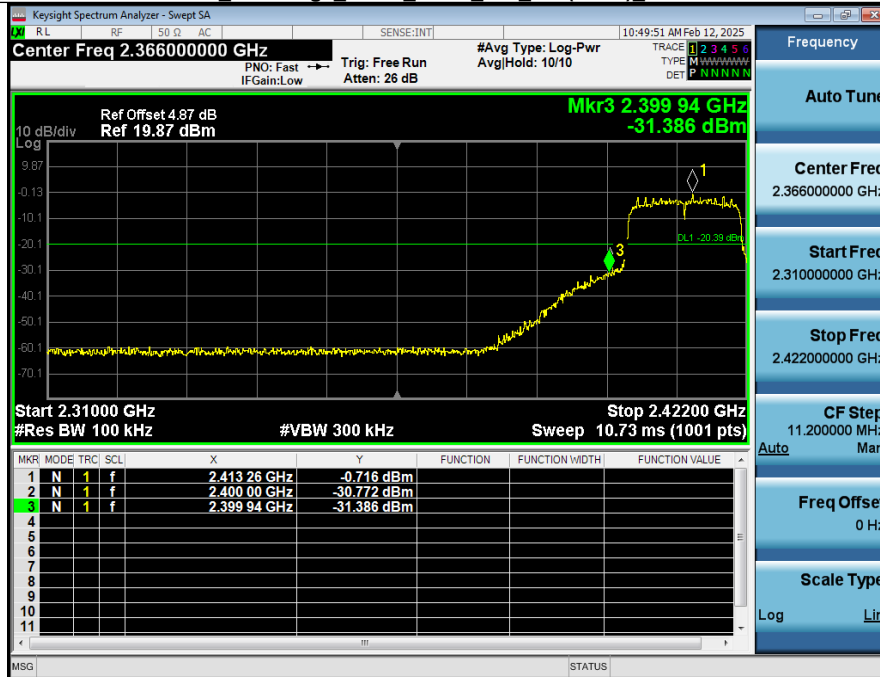
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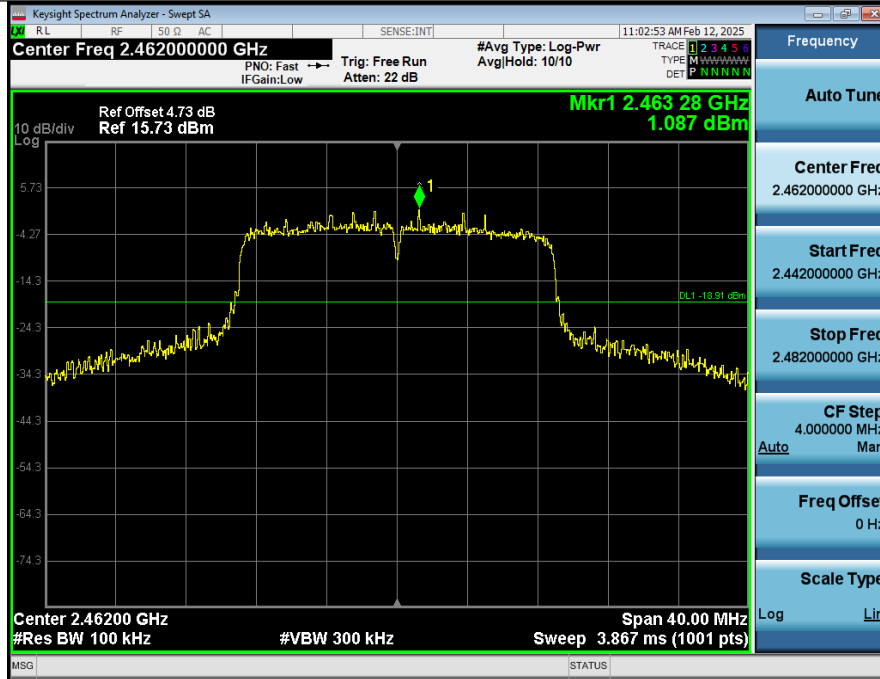
1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



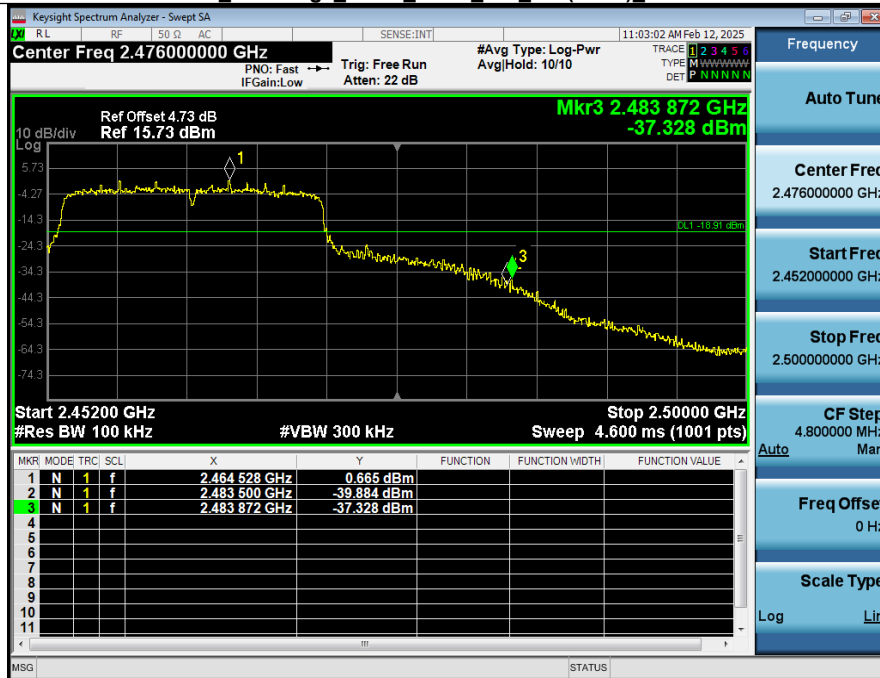
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1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



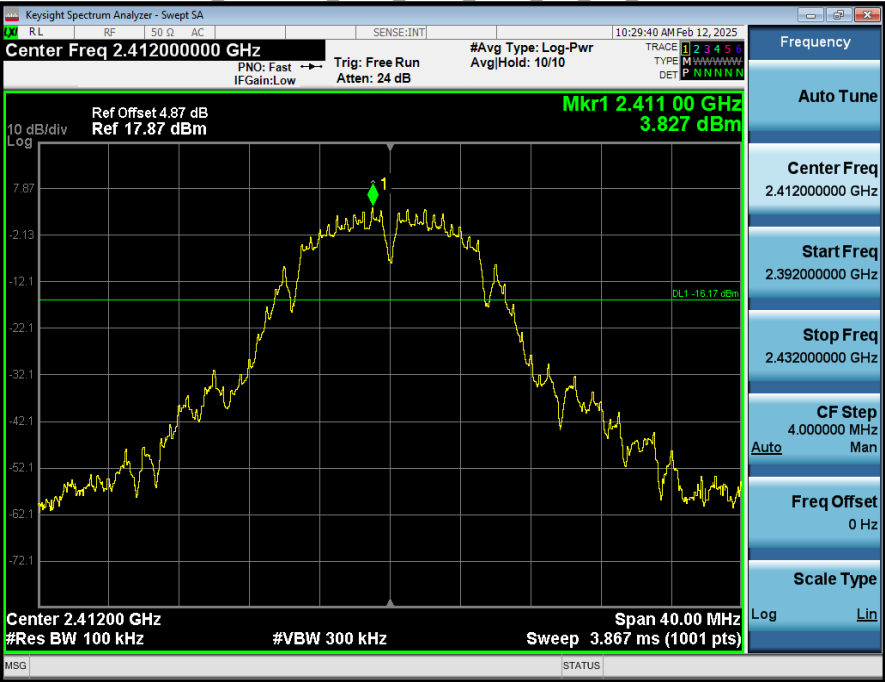
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



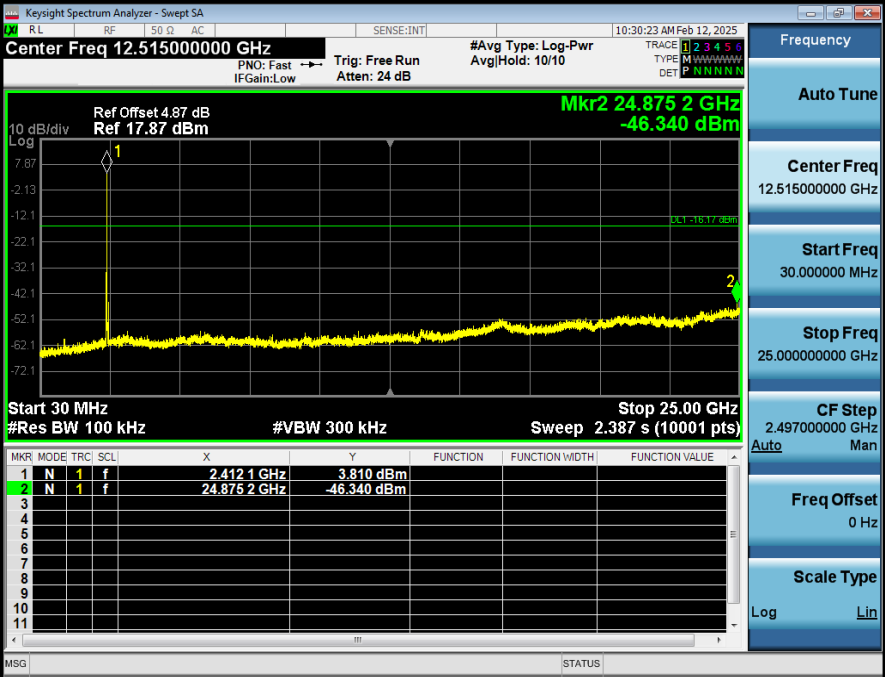
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24875.150	3.827	-46.340	-16.173	Pass
NVNT	ANT1	802.11b	2437.00	24982.521	5.108	-39.401	-14.892	Pass
NVNT	ANT1	802.11b	2462.00	24912.605	5.199	-44.190	-14.801	Pass
NVNT	ANT1	802.11g	2412.00	24910.108	-0.327	-49.364	-20.327	Pass
NVNT	ANT1	802.11g	2437.00	24972.533	1.230	-48.719	-18.770	Pass
NVNT	ANT1	802.11g	2462.00	24962.545	1.887	-43.272	-18.113	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24852.677	-0.387	-45.136	-20.387	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24982.521	-0.246	-49.158	-20.246	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24995.006	1.087	-49.341	-18.913	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



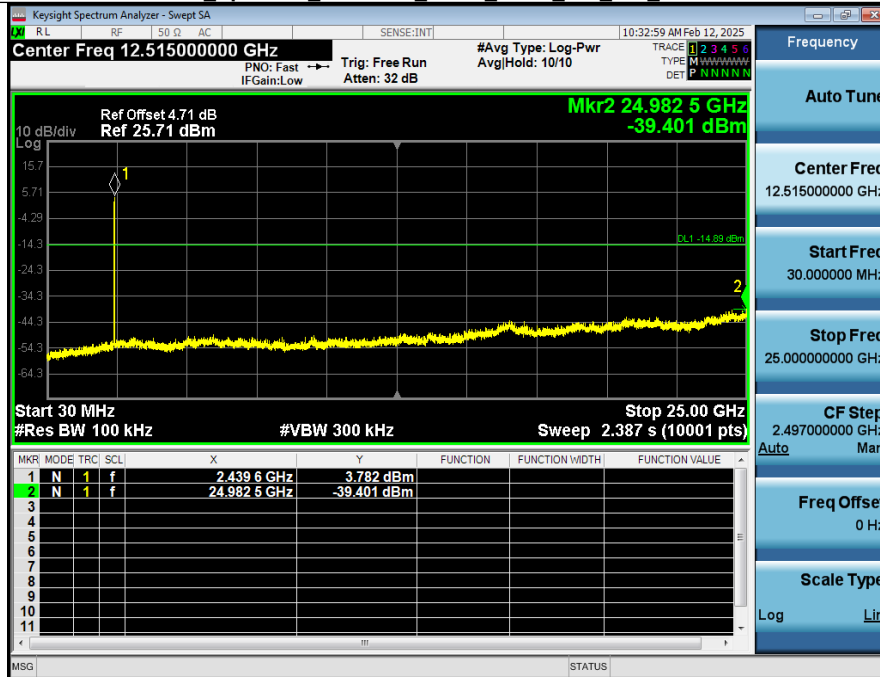
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1 Reference Level_NVNT_ANT1_802_11b_2437



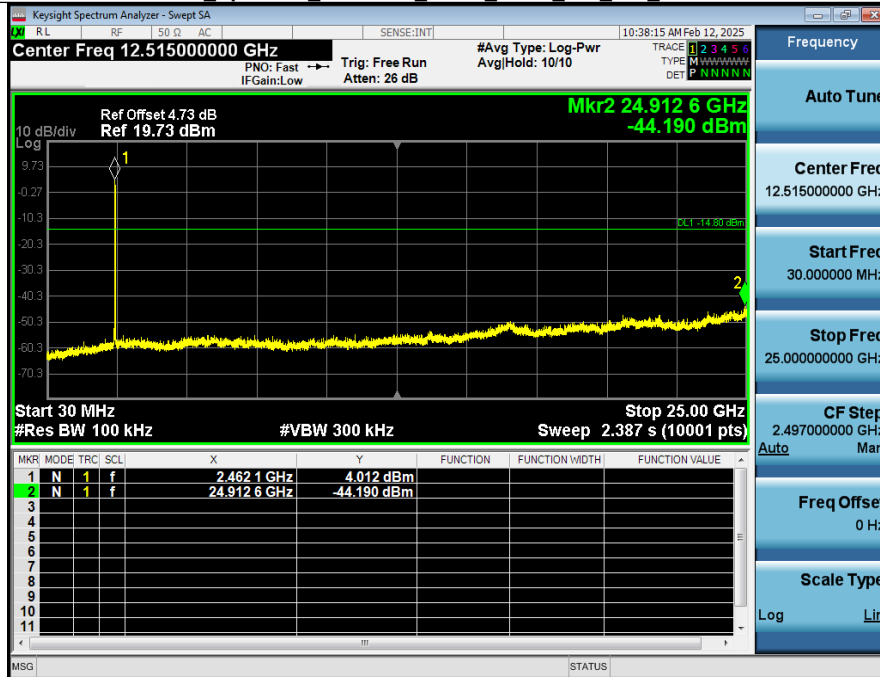
2 Spurious Emission_NVNT_ANT1_802_11b_2437



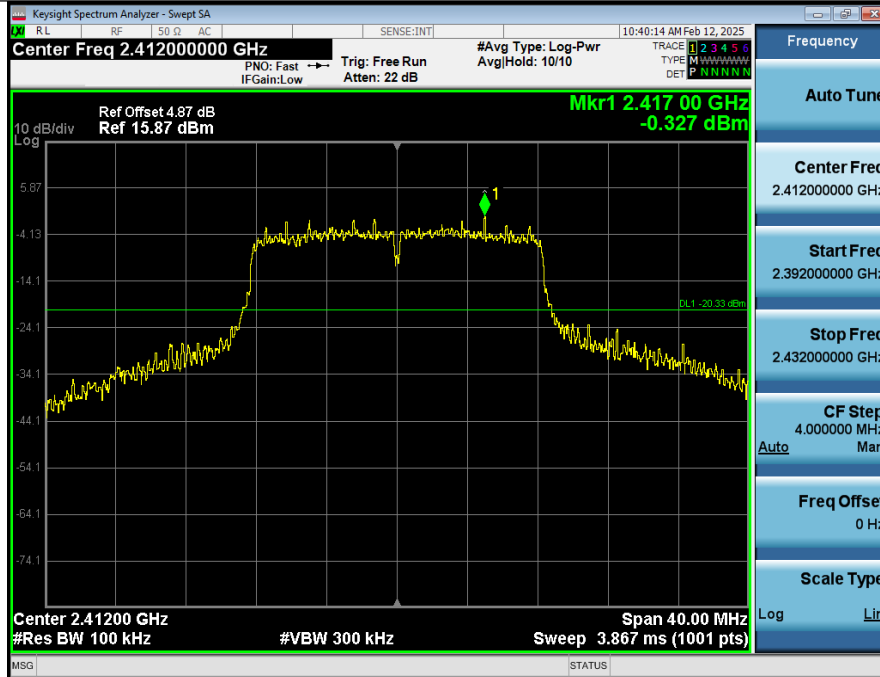
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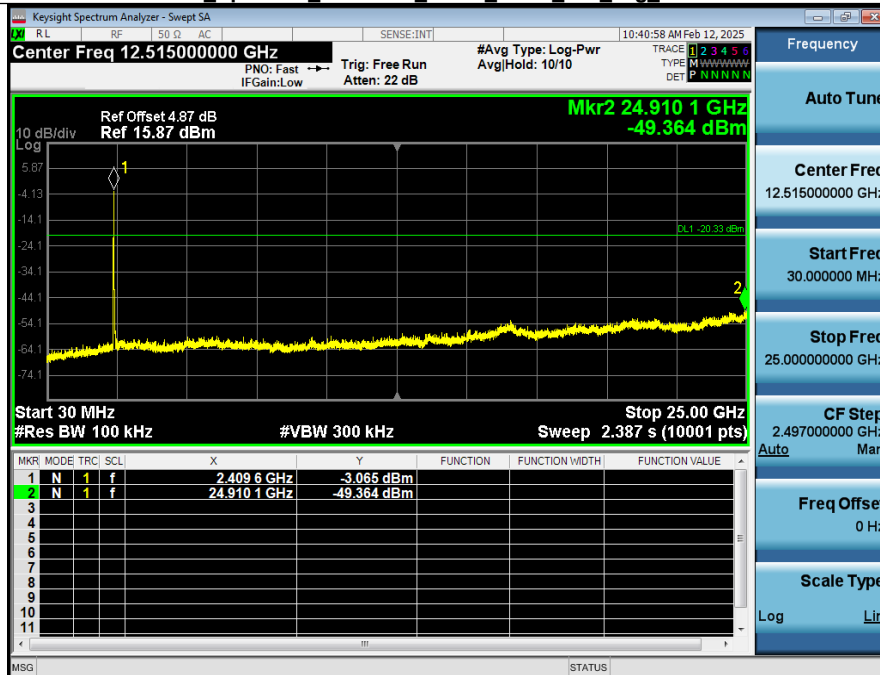
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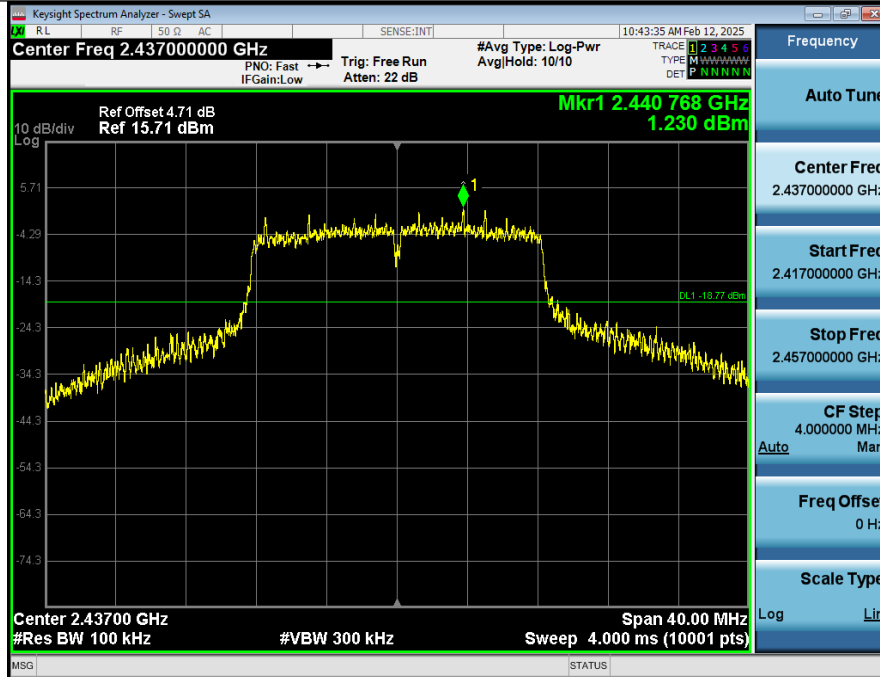
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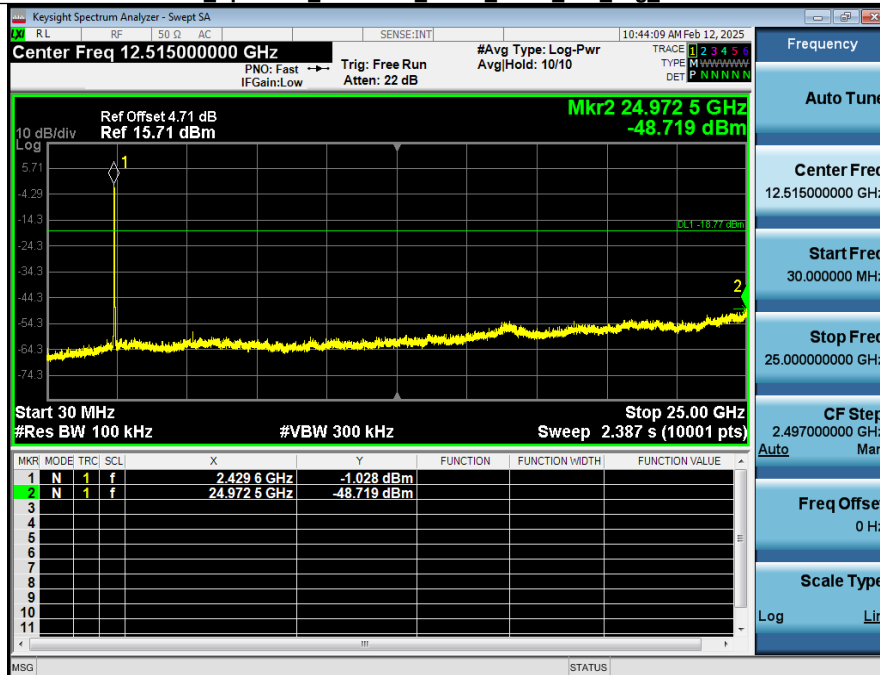
2_Spurious_Emission_NVNT_ANT1_802_11g_2412



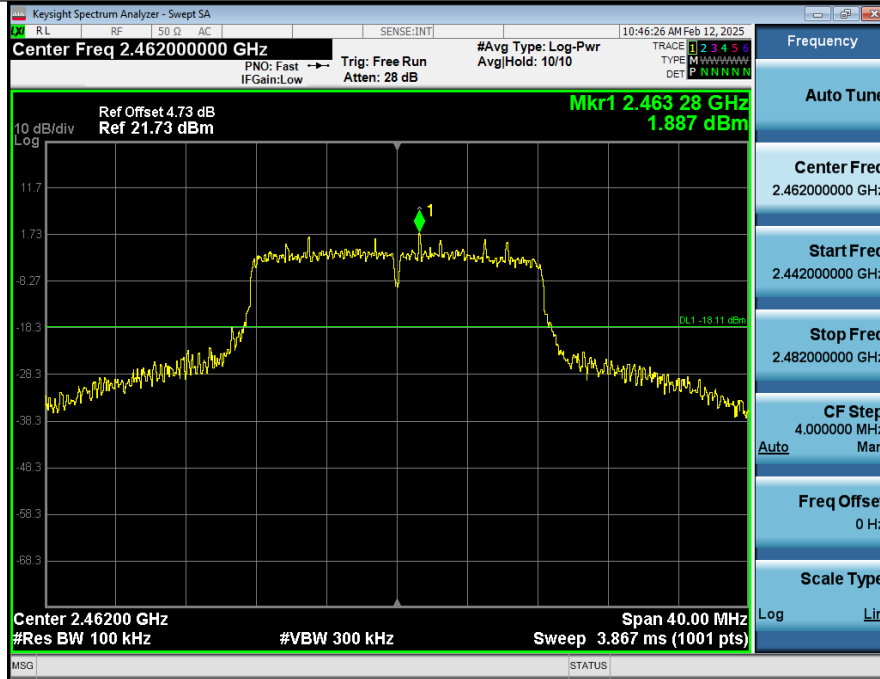
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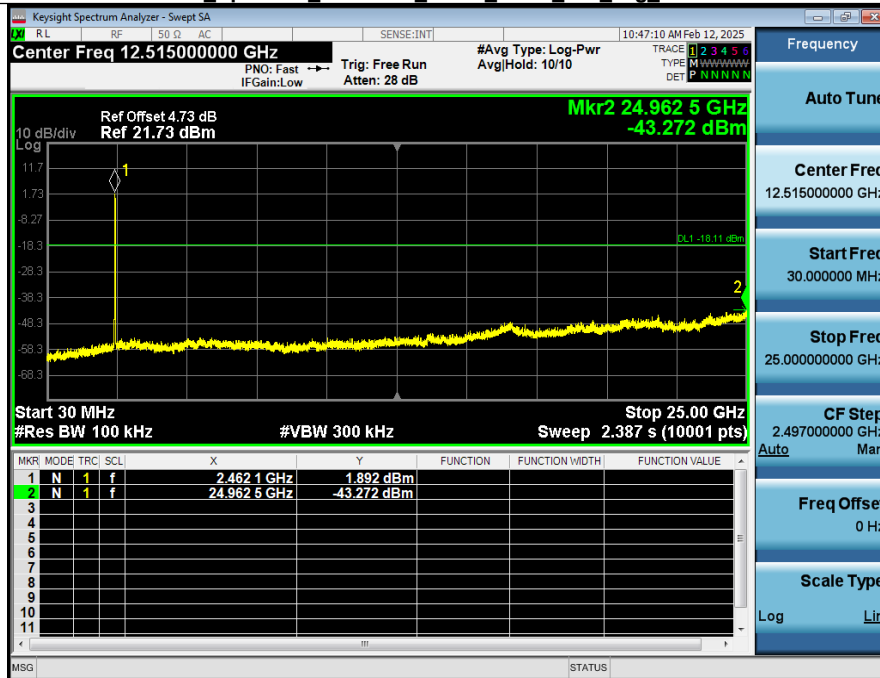
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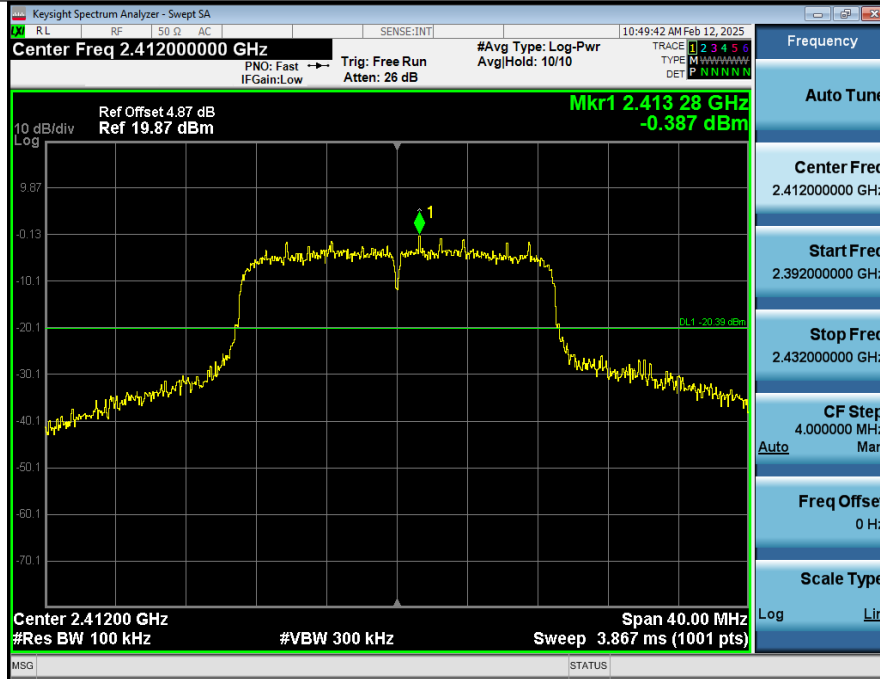
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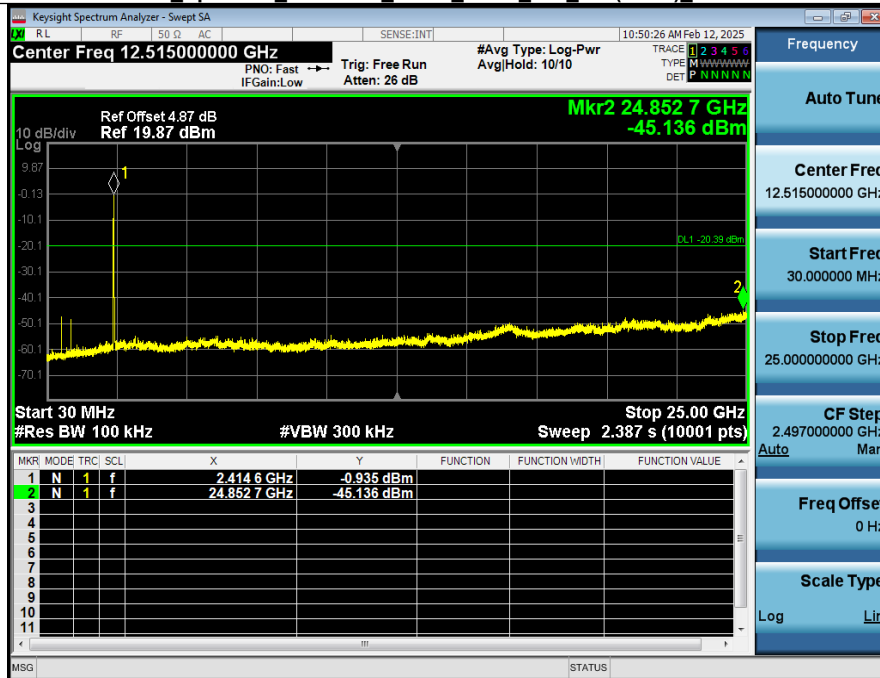
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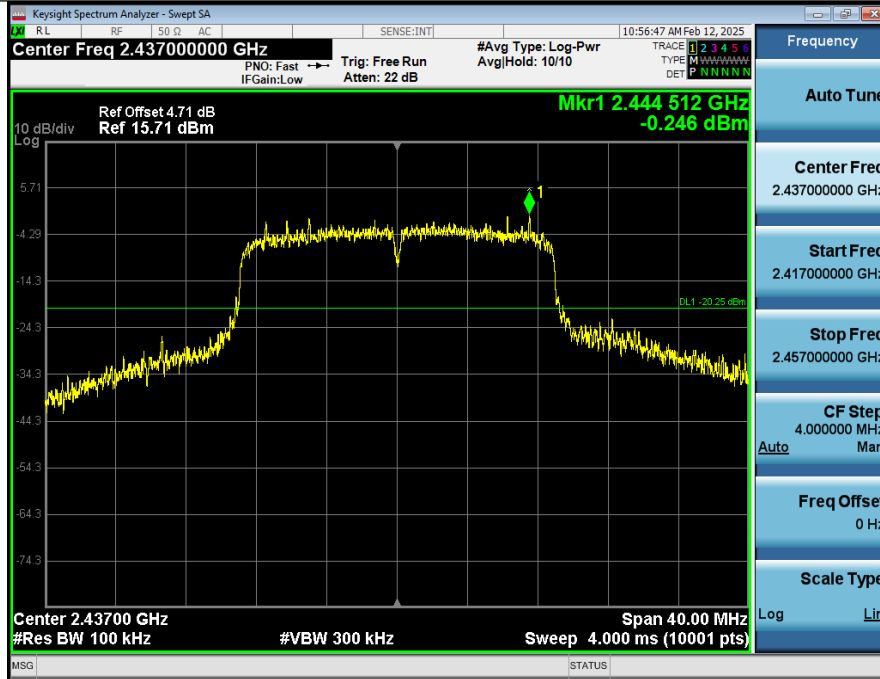
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



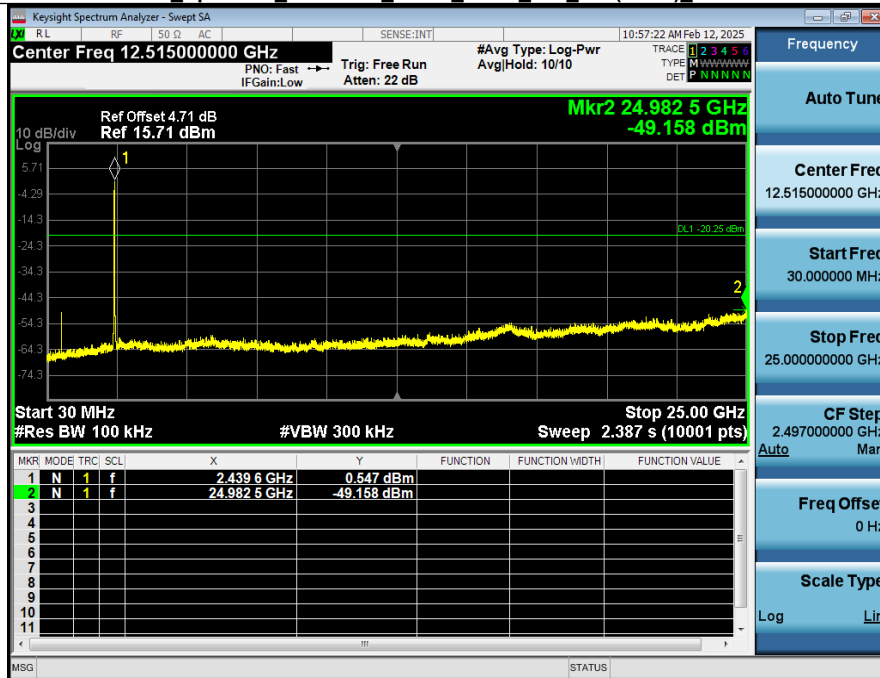
2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



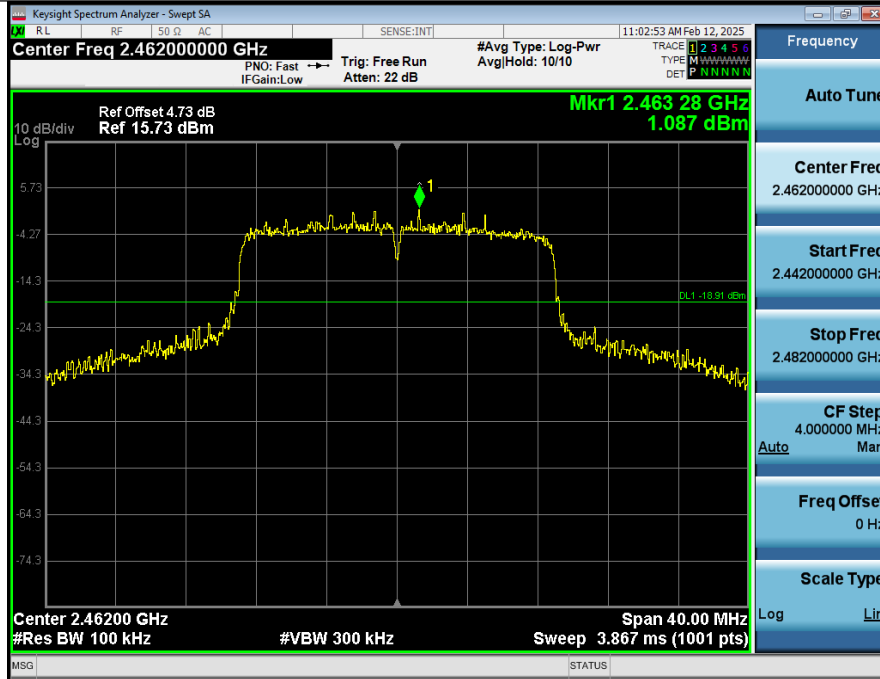
1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437



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

