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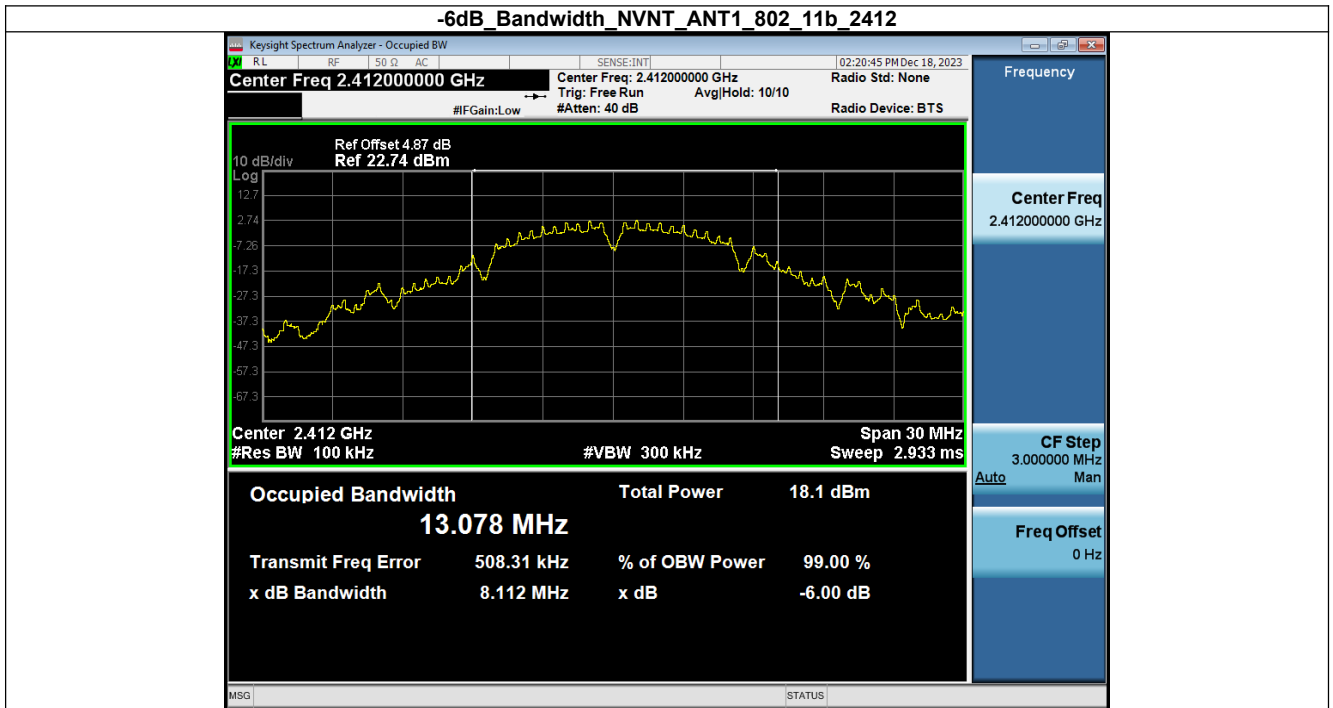
7. Spurious Emission38

FCC ID WIFI2.4

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	8.11	500	Pass
NVNT	ANT1	802.11b	2437.00	8.62	500	Pass
NVNT	ANT1	802.11b	2462.00	8.14	500	Pass
NVNT	ANT1	802.11g	2412.00	15.46	500	Pass
NVNT	ANT1	802.11g	2437.00	16.09	500	Pass
NVNT	ANT1	802.11g	2462.00	16.33	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.85	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.86	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.98	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.05	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.21	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.59	500	Pass



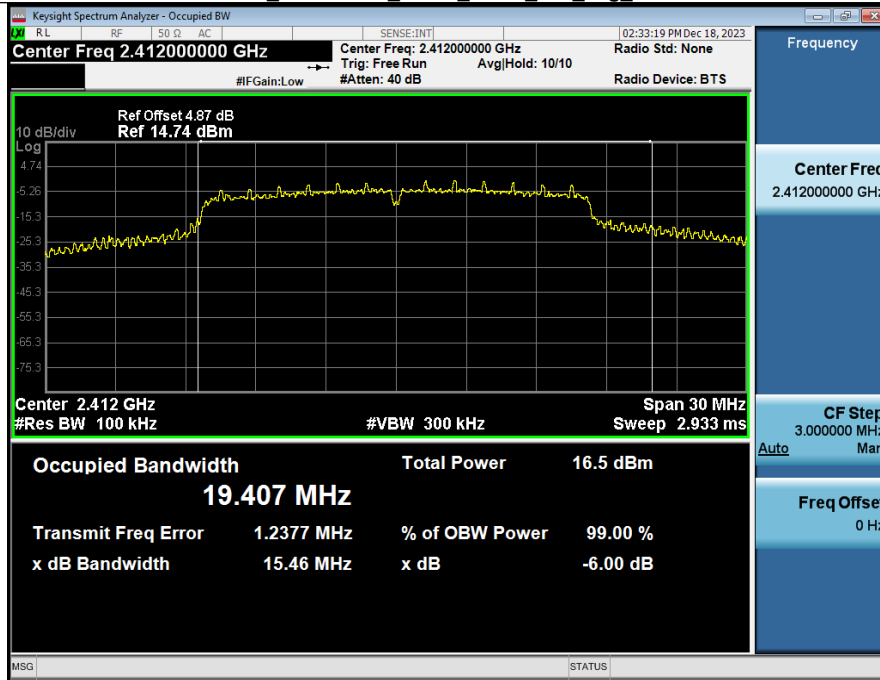
-6dB Bandwidth NVNT_ANT1_802_11b_2437



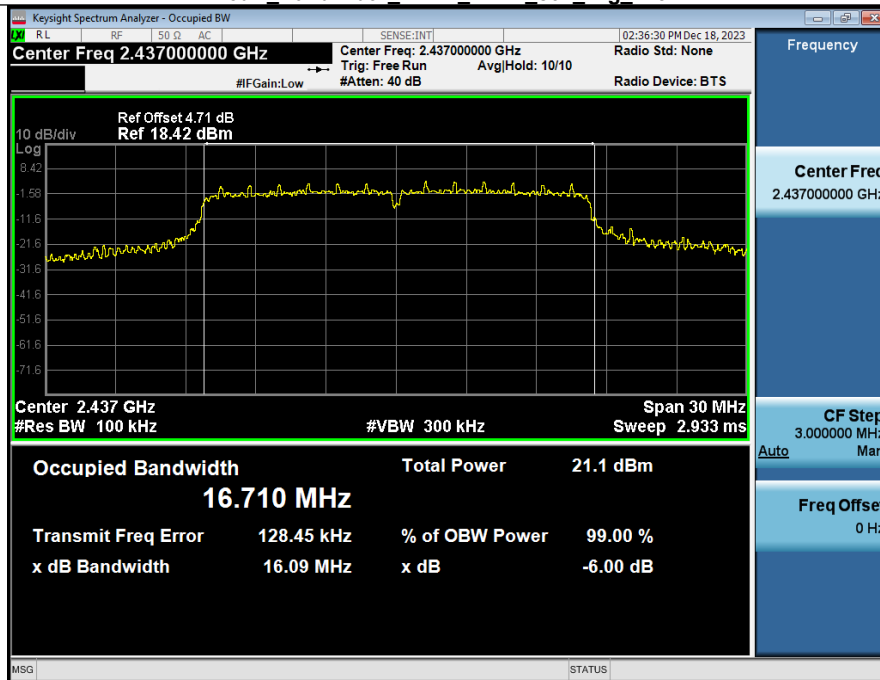
-6dB Bandwidth NVNT_ANT1_802_11b_2462



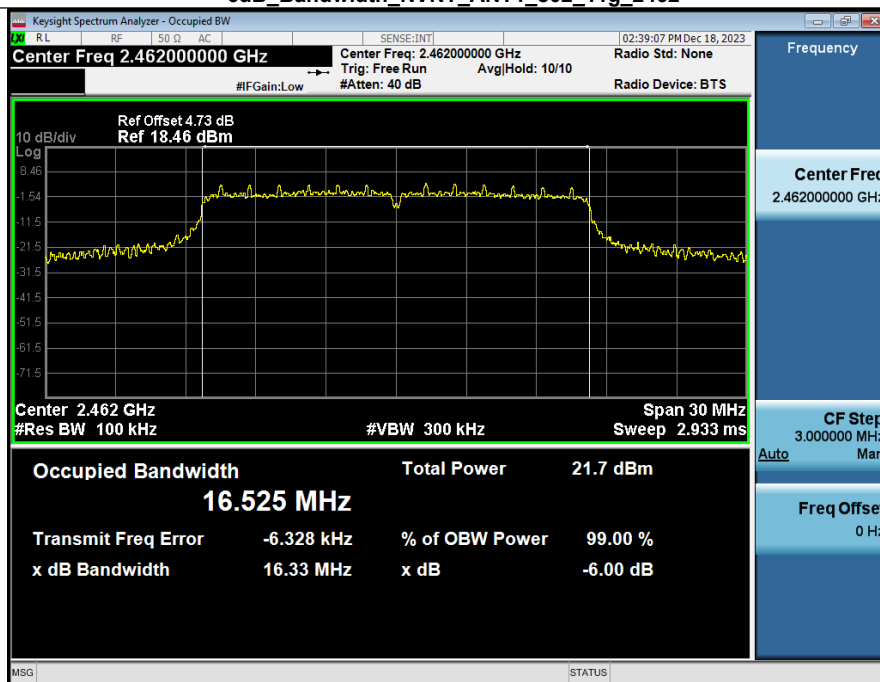
-6dB Bandwidth NVNT_ANT1_802_11g_2412



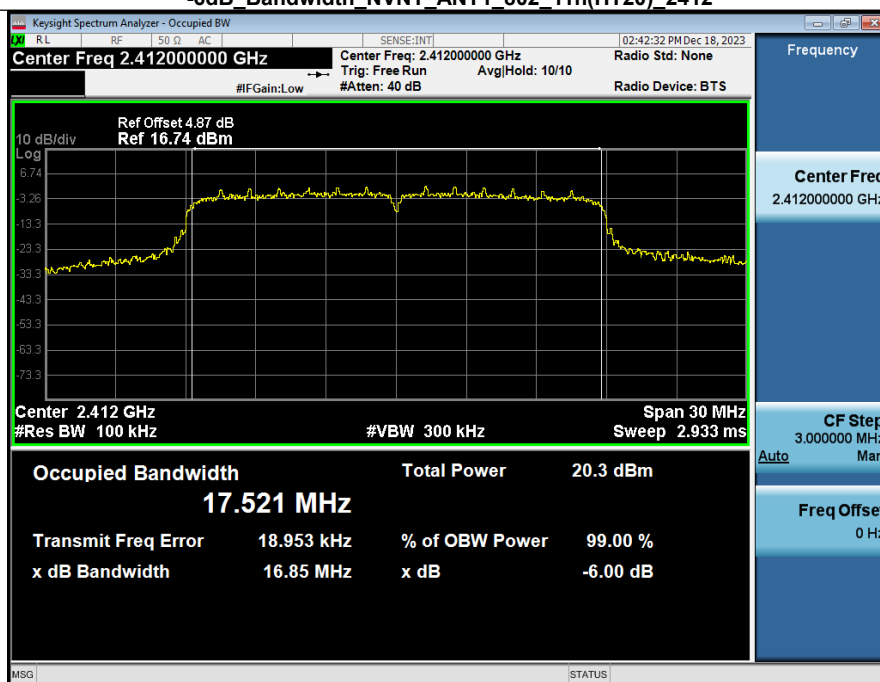
-6dB Bandwidth NVNT_ANT1_802_11g_2437



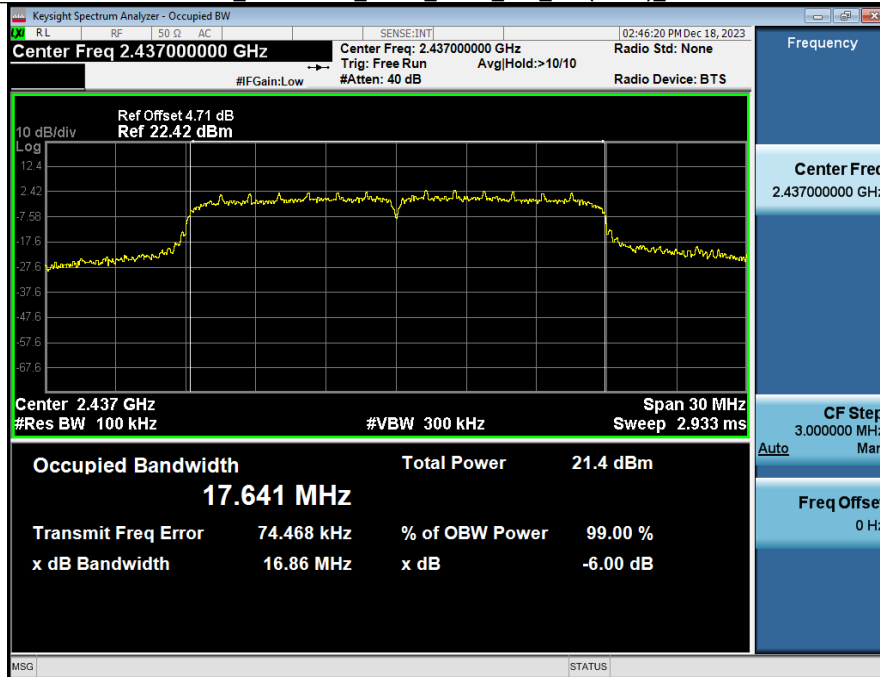
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



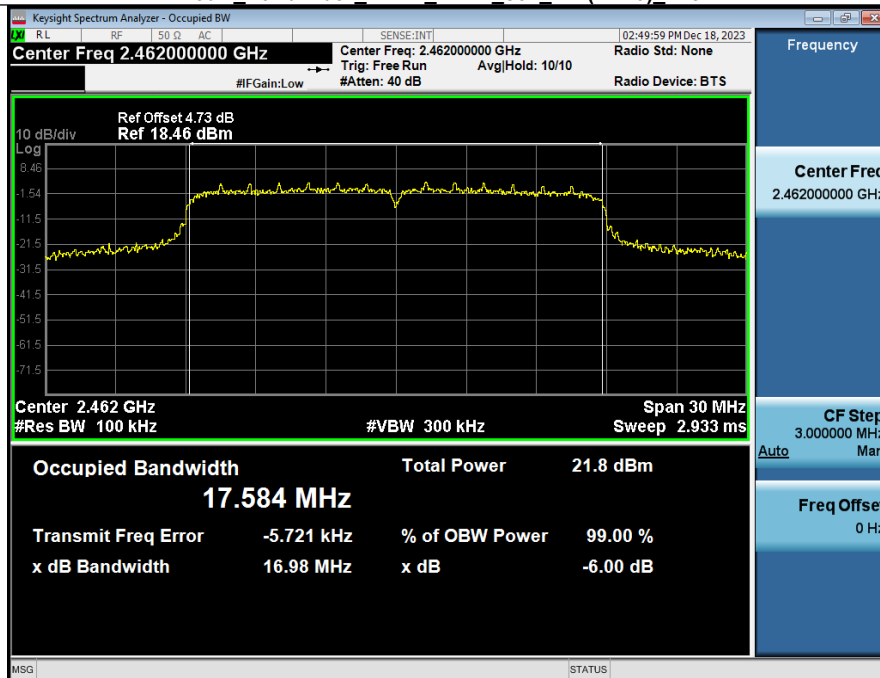
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



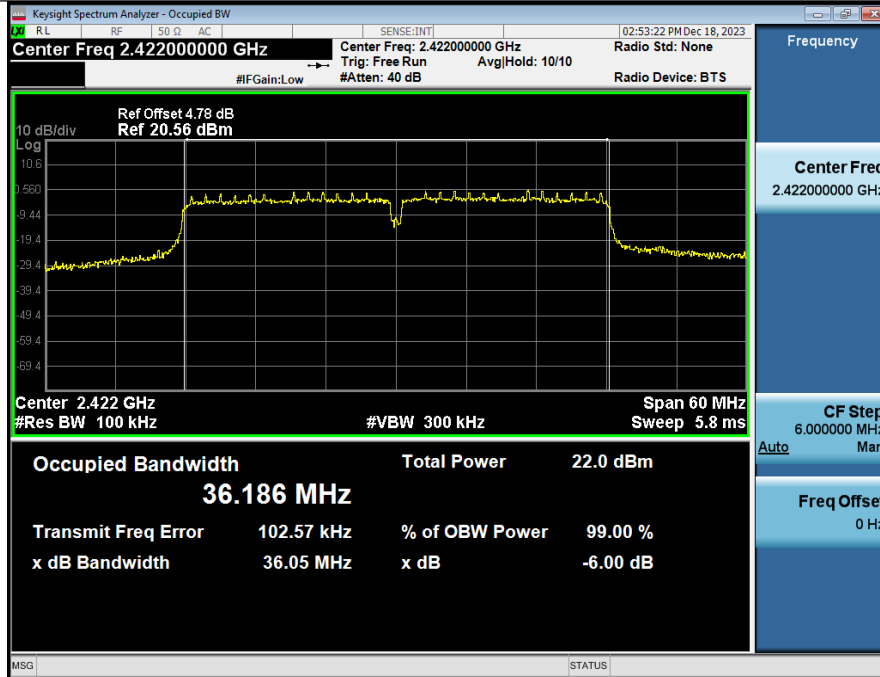
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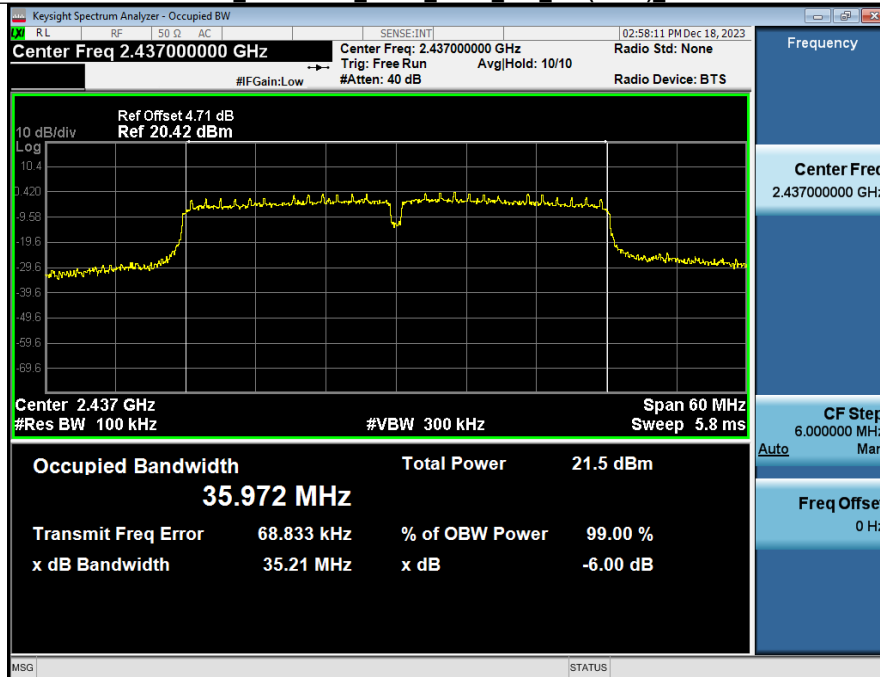
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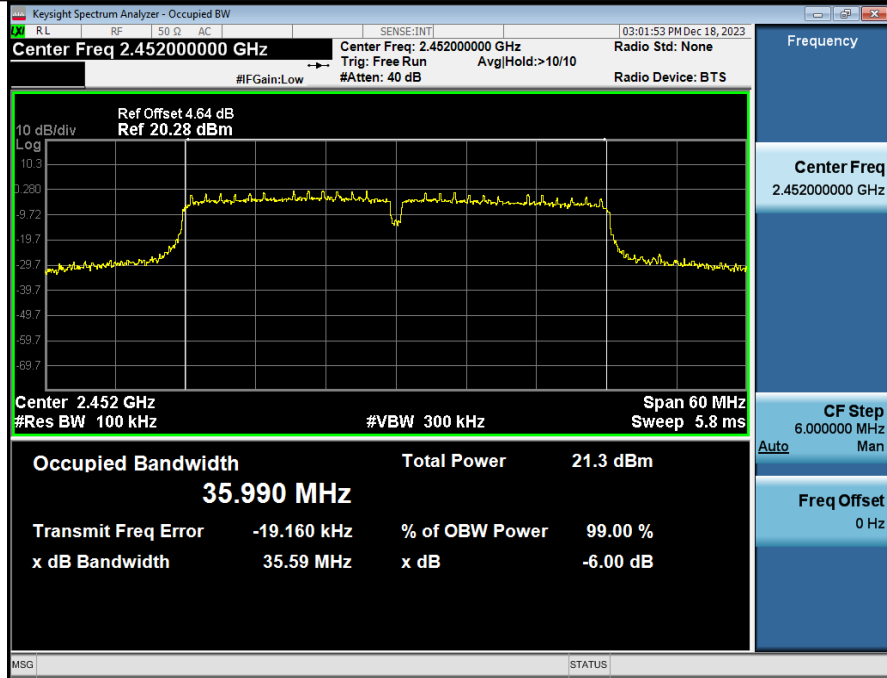
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

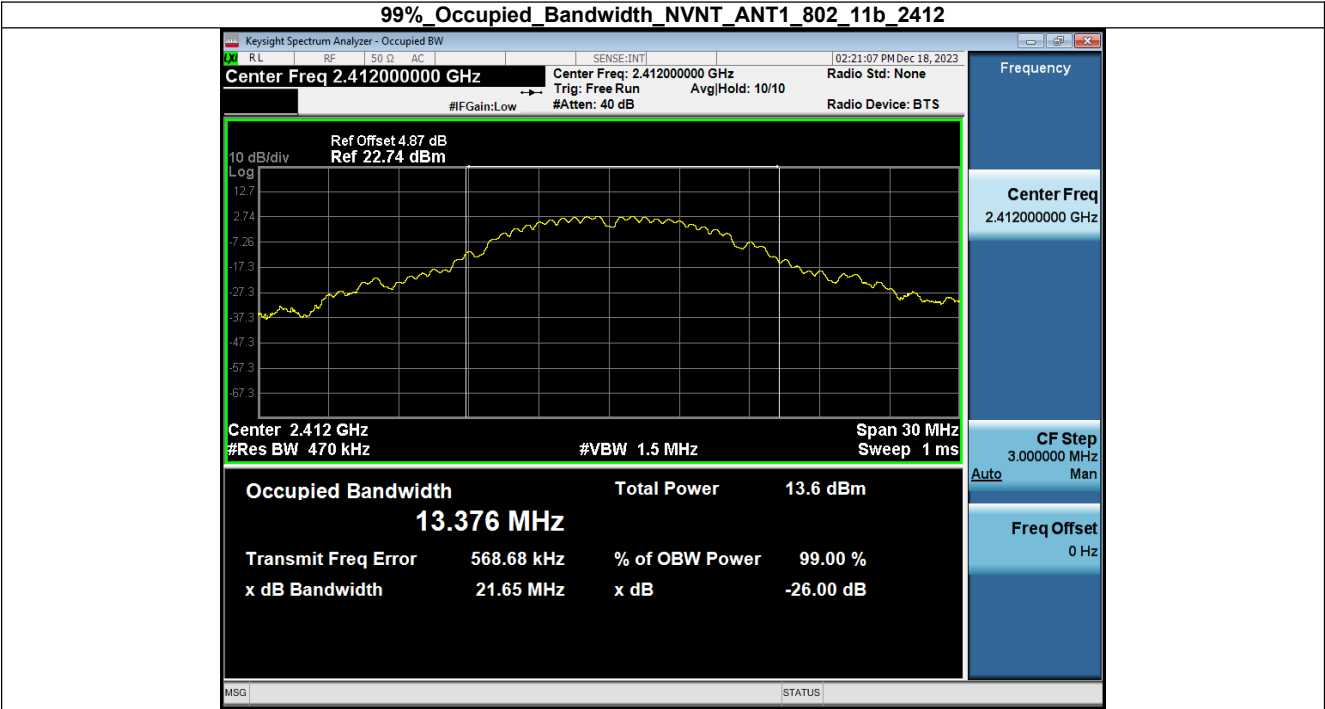


-6dB Bandwidth NVNT_ANT1_802_11n(HT40)_2452

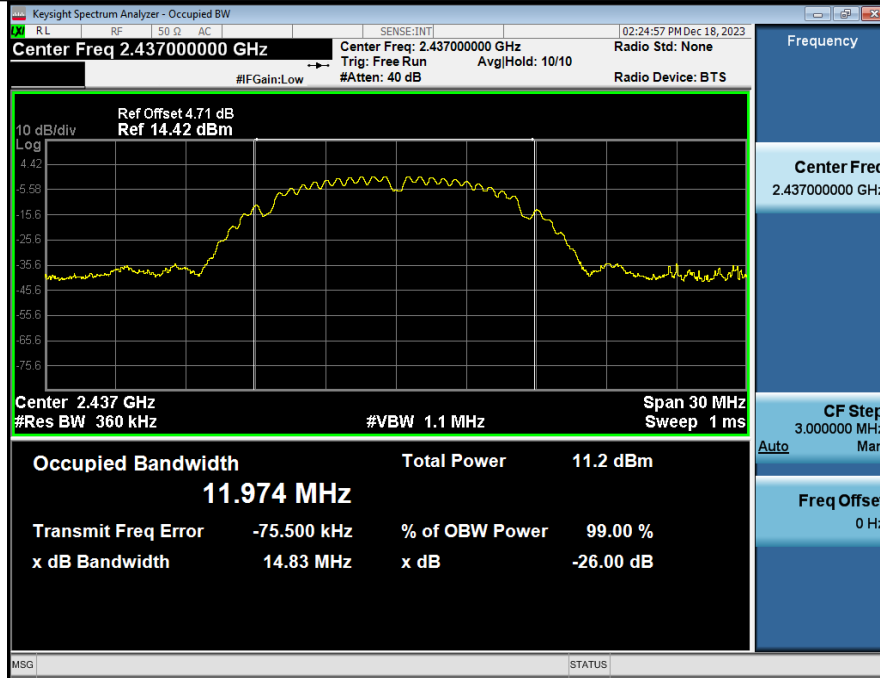


2. 99% Occupied Bandwidth

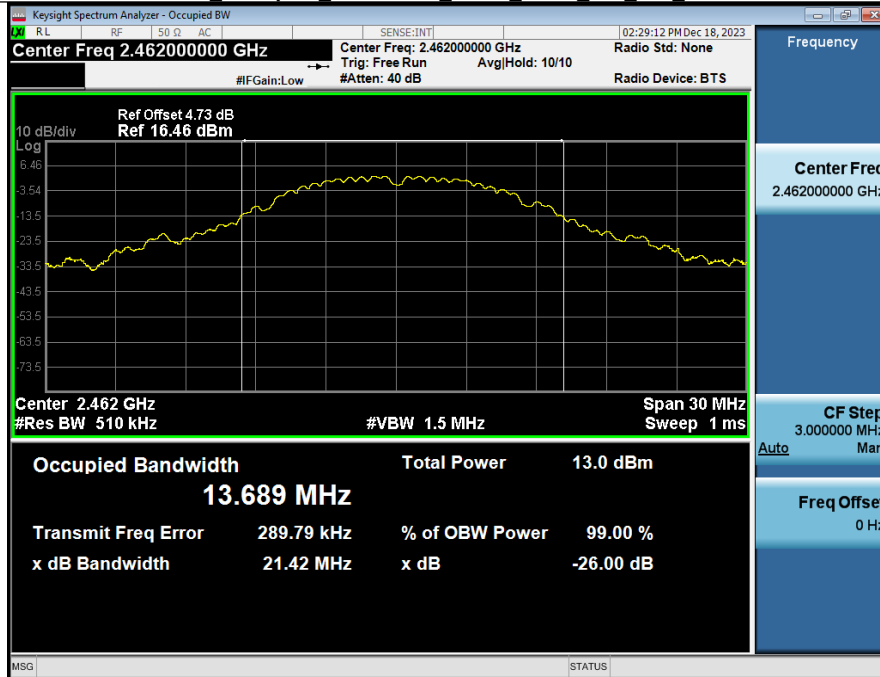
Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	13.376
NVNT	ANT1	802.11b	2437.00	11.974
NVNT	ANT1	802.11b	2462.00	13.689
NVNT	ANT1	802.11g	2412.00	21.000
NVNT	ANT1	802.11g	2437.00	18.343
NVNT	ANT1	802.11g	2462.00	17.685
NVNT	ANT1	802.11n(HT20)	2412.00	17.802
NVNT	ANT1	802.11n(HT20)	2437.00	18.256
NVNT	ANT1	802.11n(HT20)	2462.00	18.067
NVNT	ANT1	802.11n(HT40)	2422.00	37.146
NVNT	ANT1	802.11n(HT40)	2437.00	36.619
NVNT	ANT1	802.11n(HT40)	2452.00	36.569



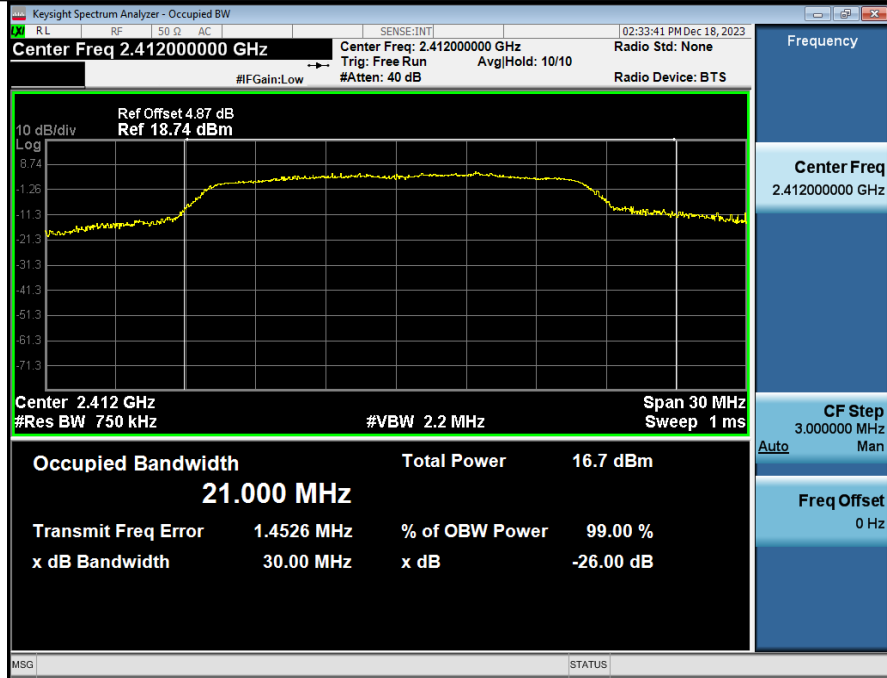
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



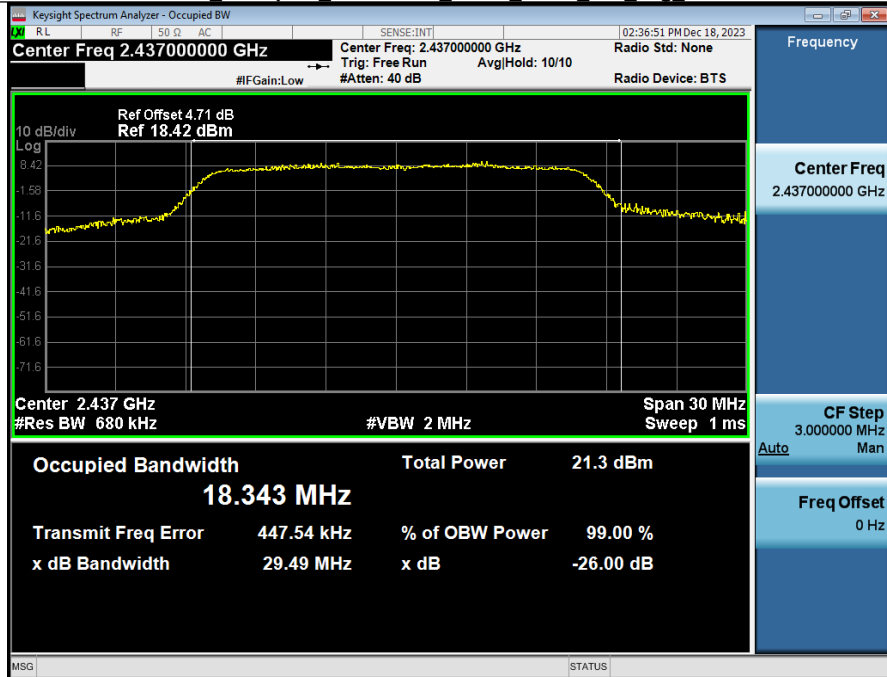
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



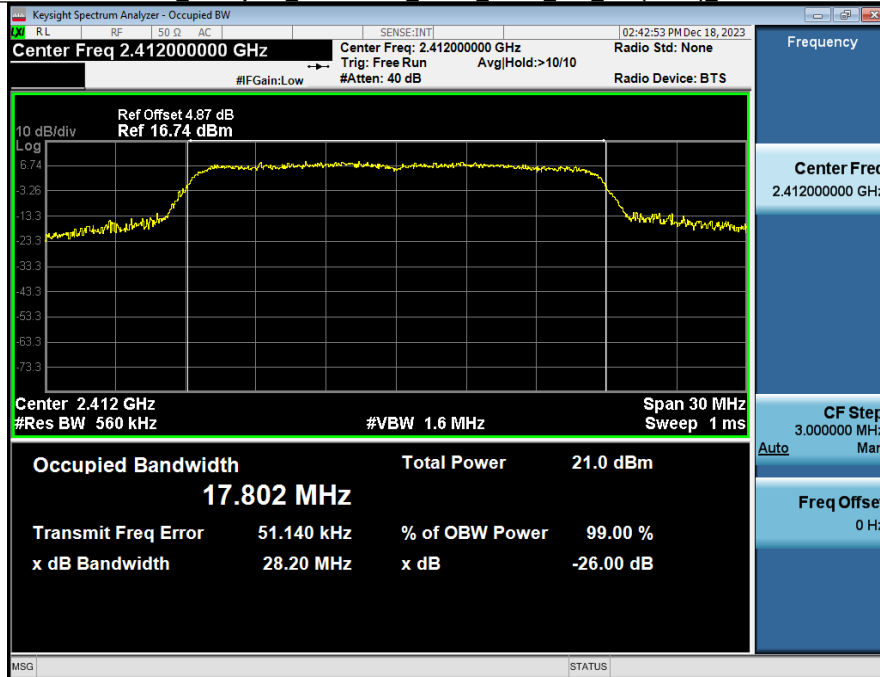
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437



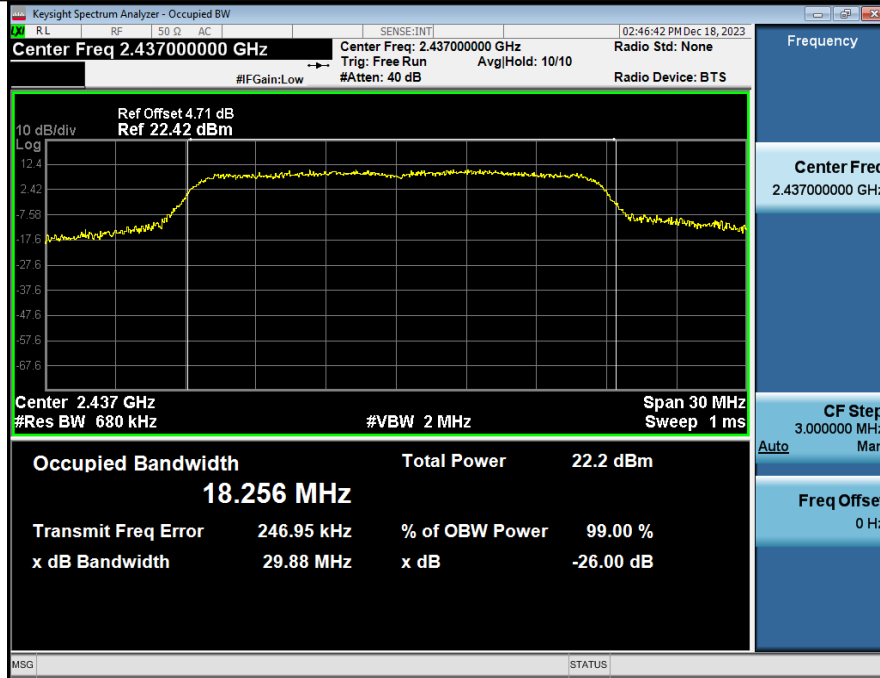
99% Occupied Bandwidth NVNT_ANT1_802_11g_2462



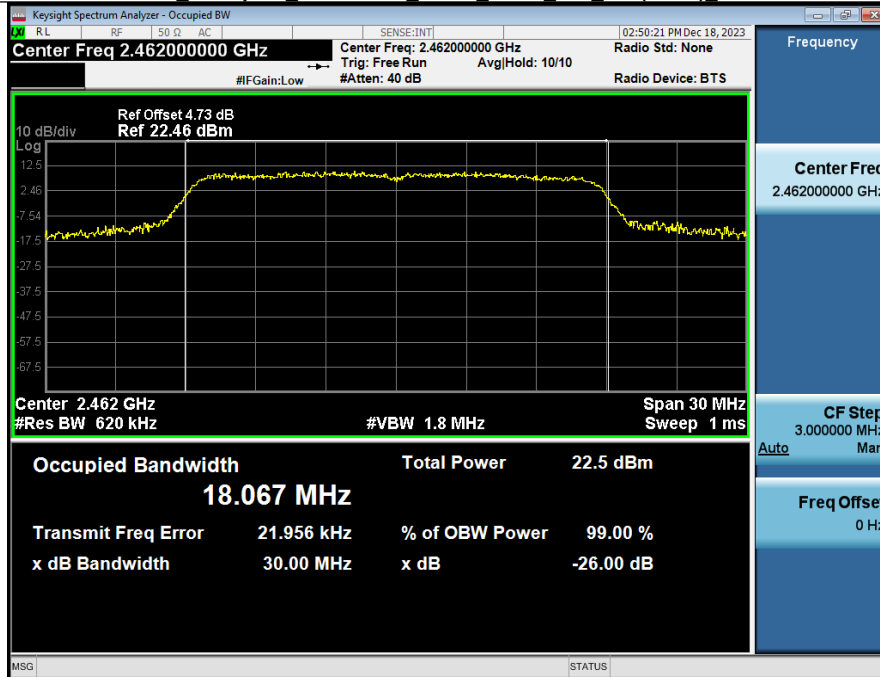
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20) 2412



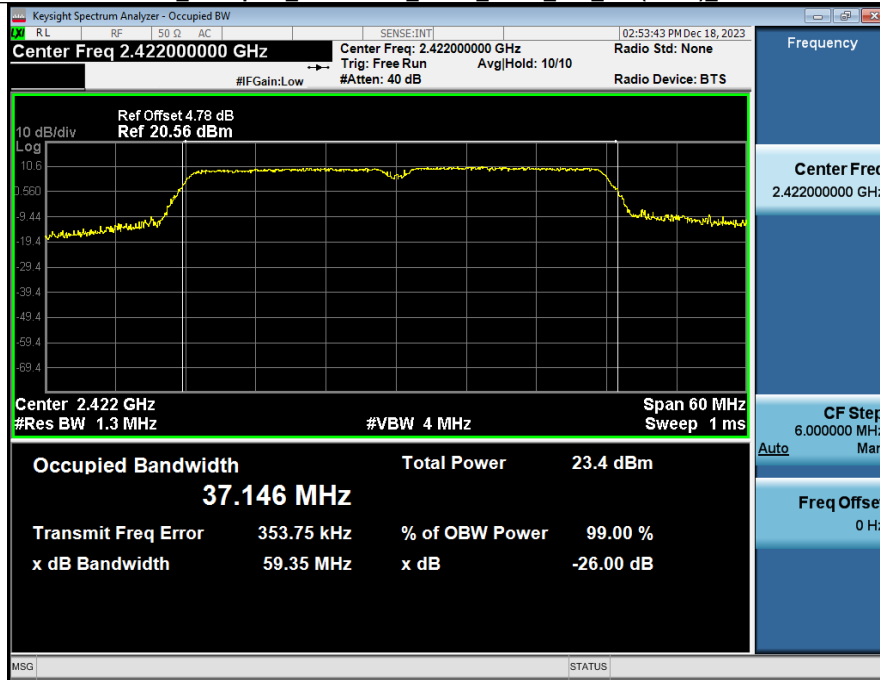
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2437



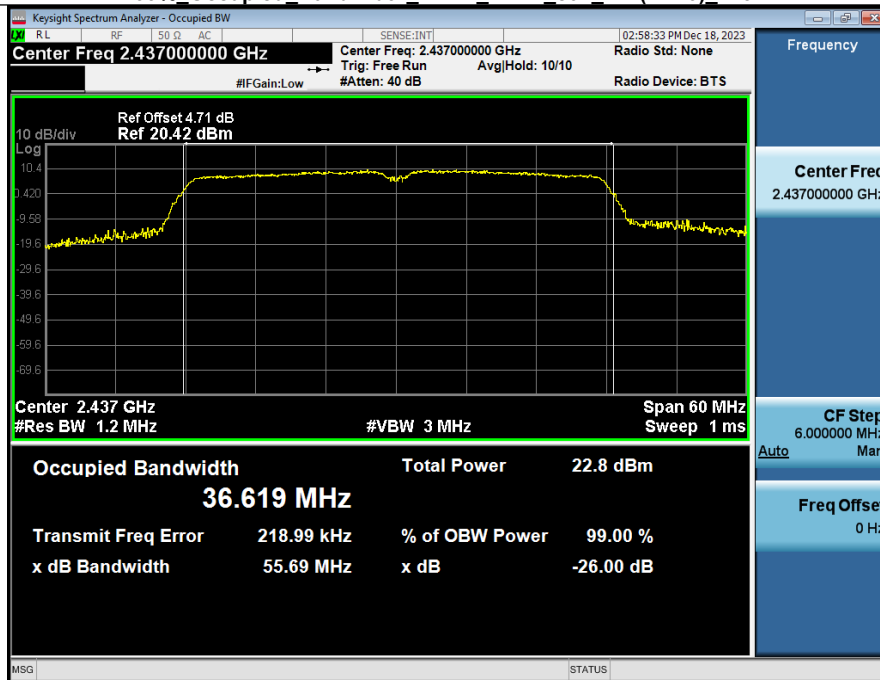
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2462

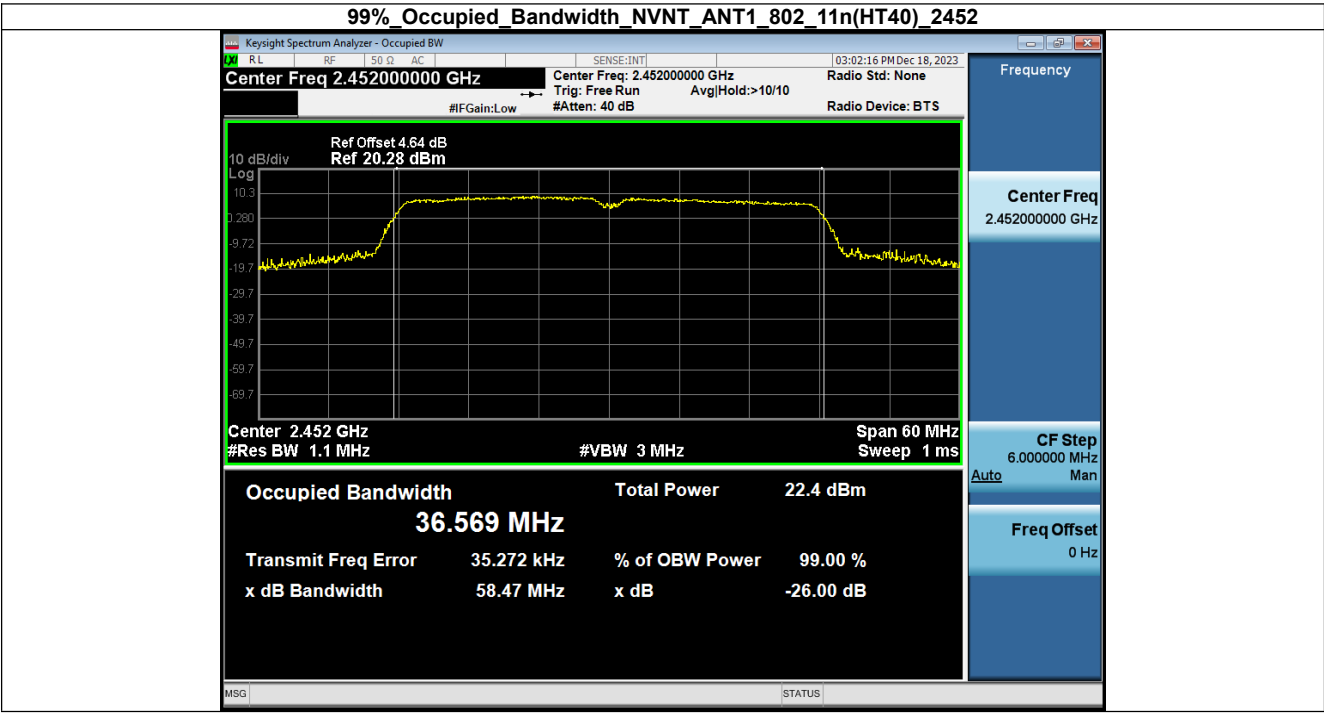


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2422



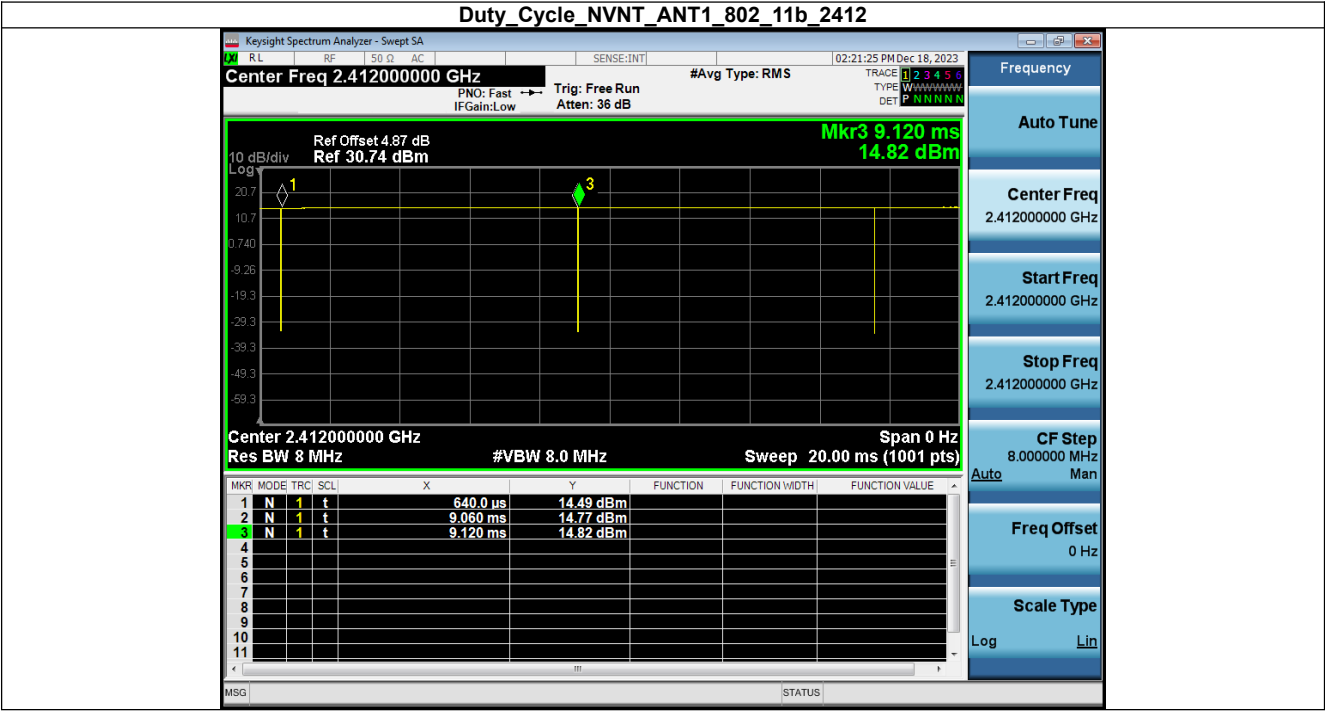
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2437



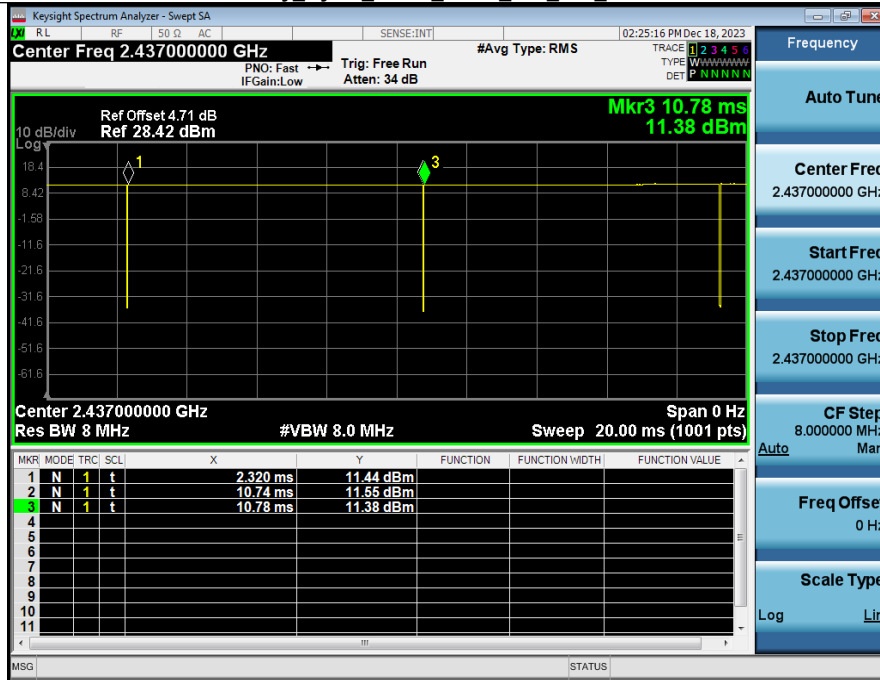


3. Duty Cycle

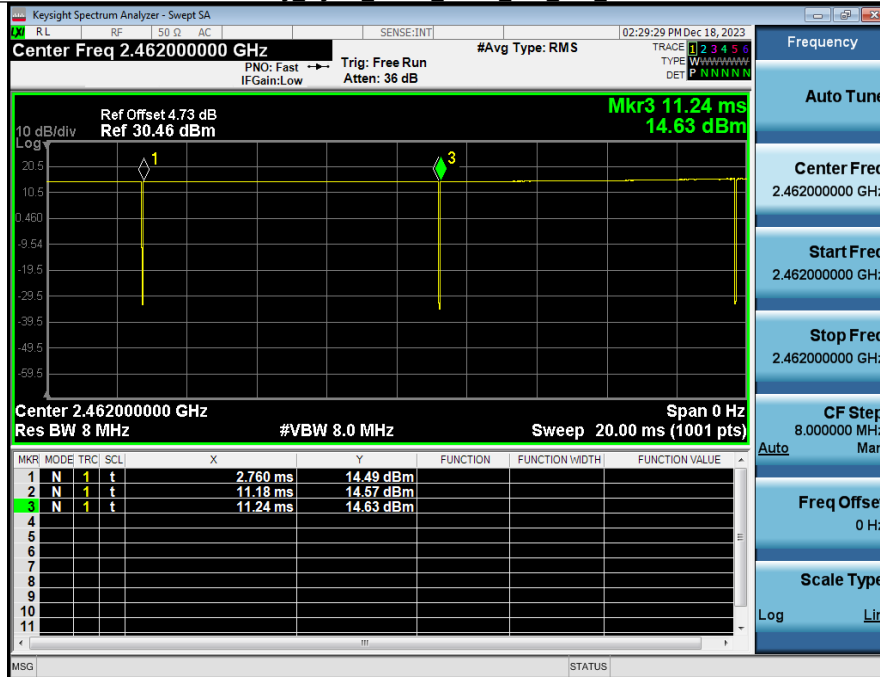
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.53	0.00
NVNT	ANT1	802.11b	2437.00	99.76	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.22	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.22	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	95.24	0.21
NVNT	ANT1	802.11n(HT20)	2437.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2462.00	96.77	0.14
NVNT	ANT1	802.11n(HT40)	2422.00	96.87	0.14
NVNT	ANT1	802.11n(HT40)	2437.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2452.00	96.87	0.14



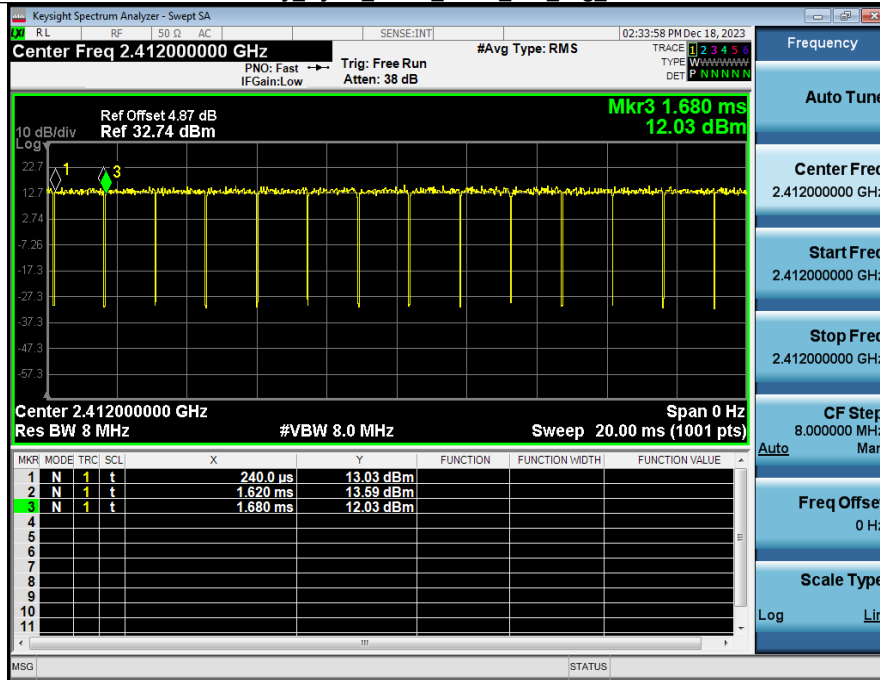
Duty Cycle NVNT ANT1_802_11b_2437



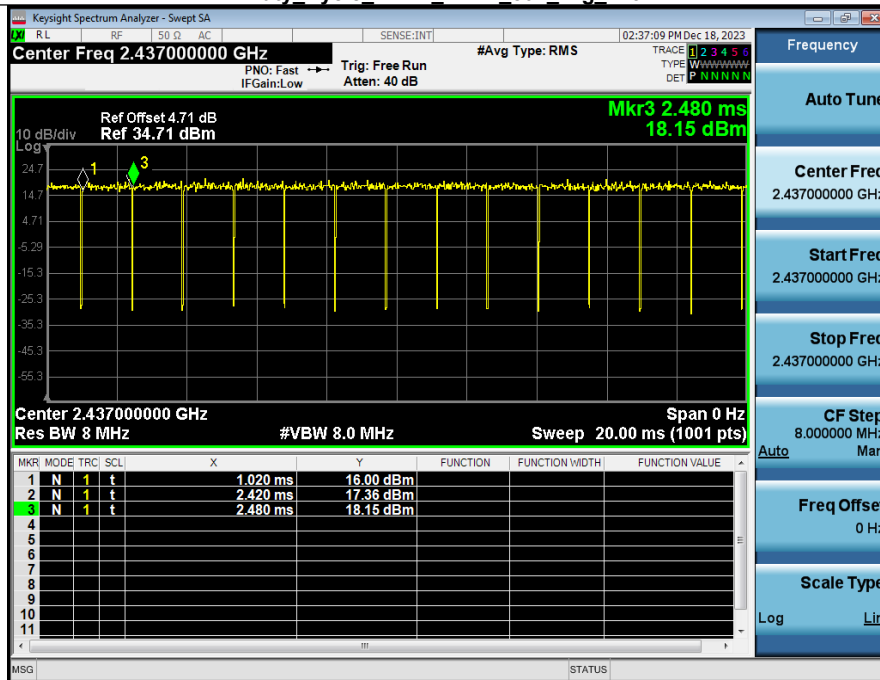
Duty Cycle NVNT ANT1_802_11b_2462



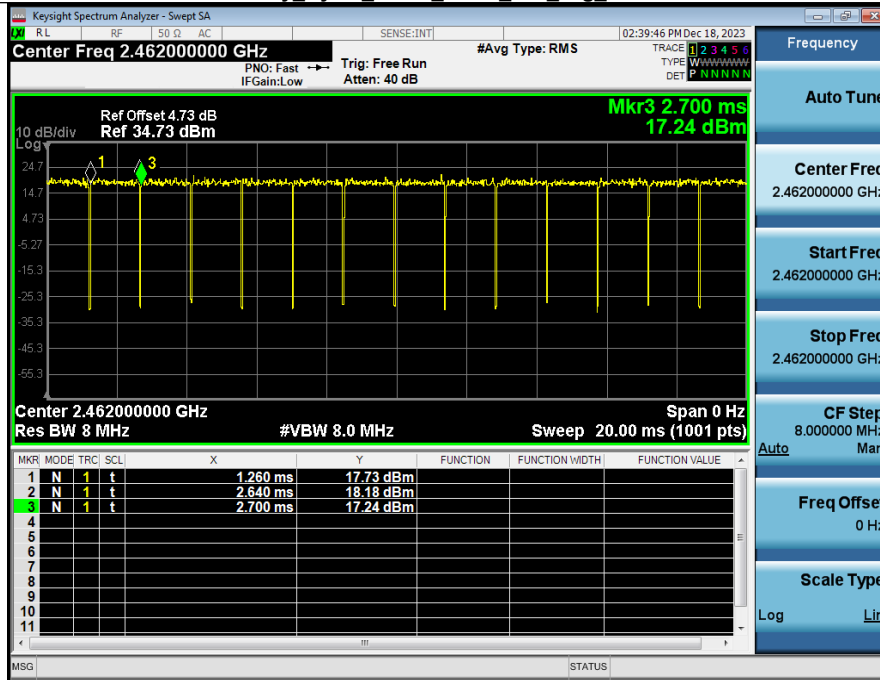
Duty Cycle NVNT ANT1_802_11g_2412



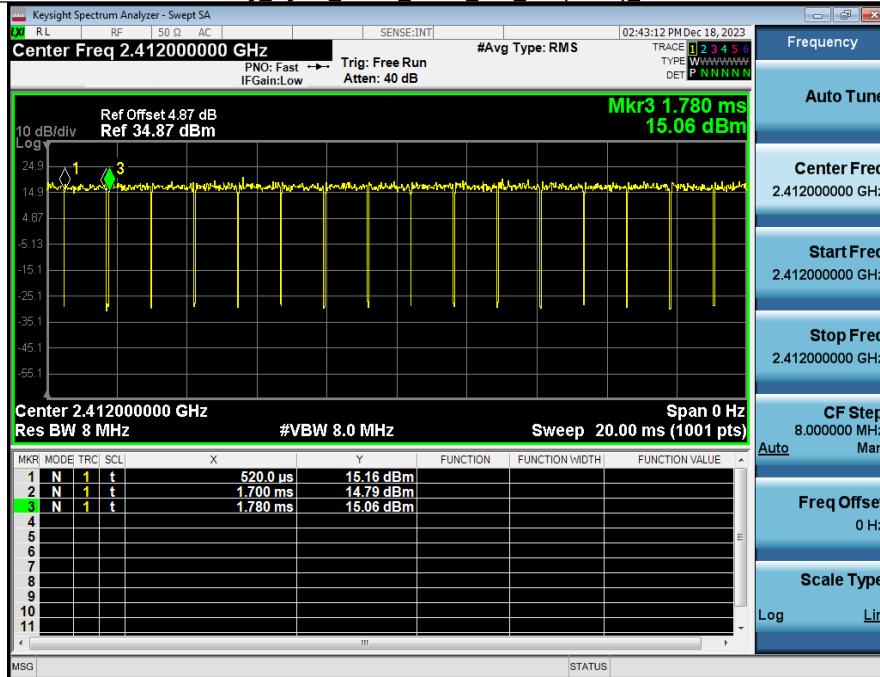
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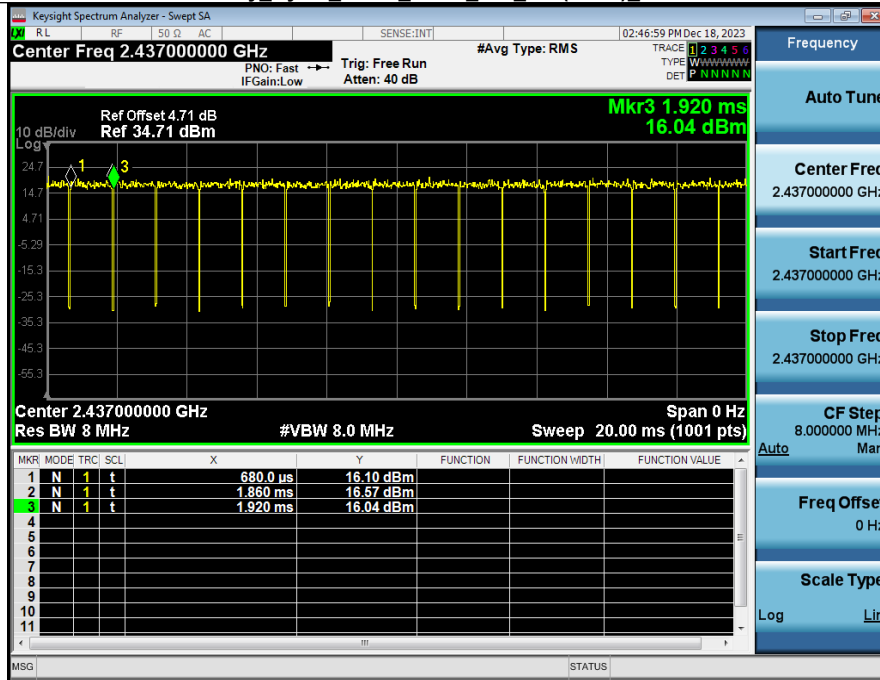
Duty Cycle NVNT_ANT1_802_11g_2462



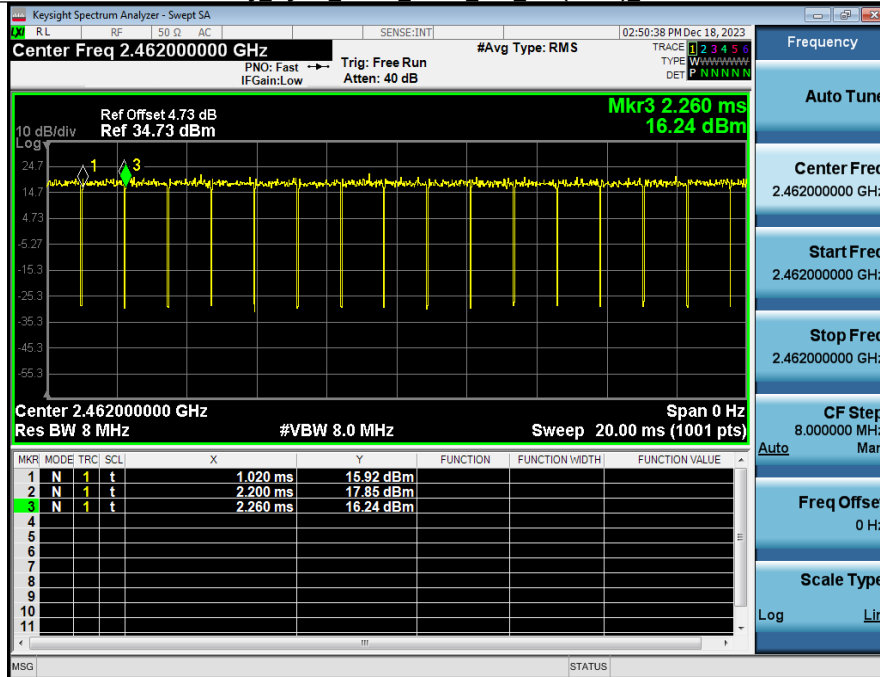
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



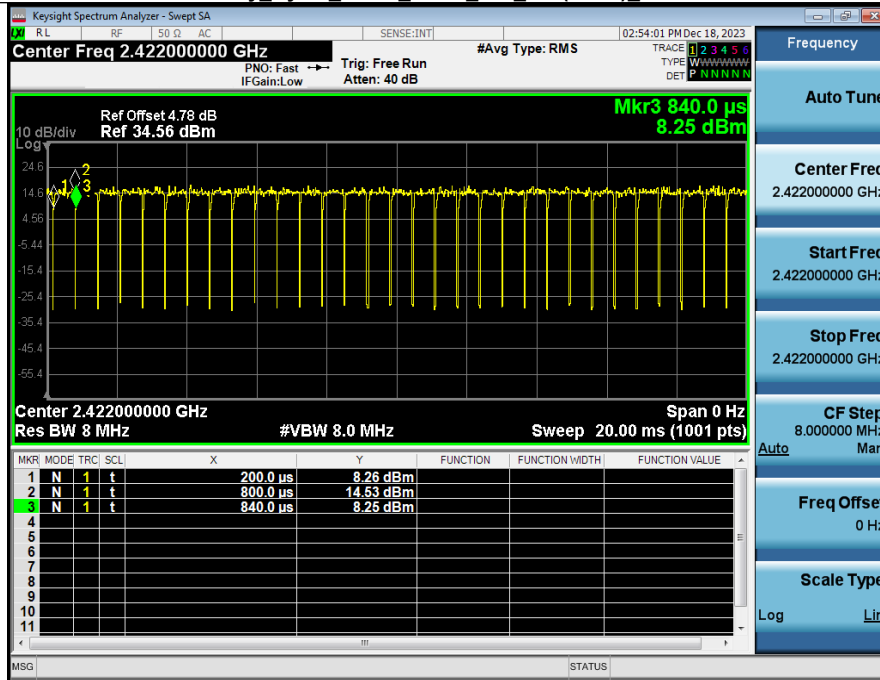
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



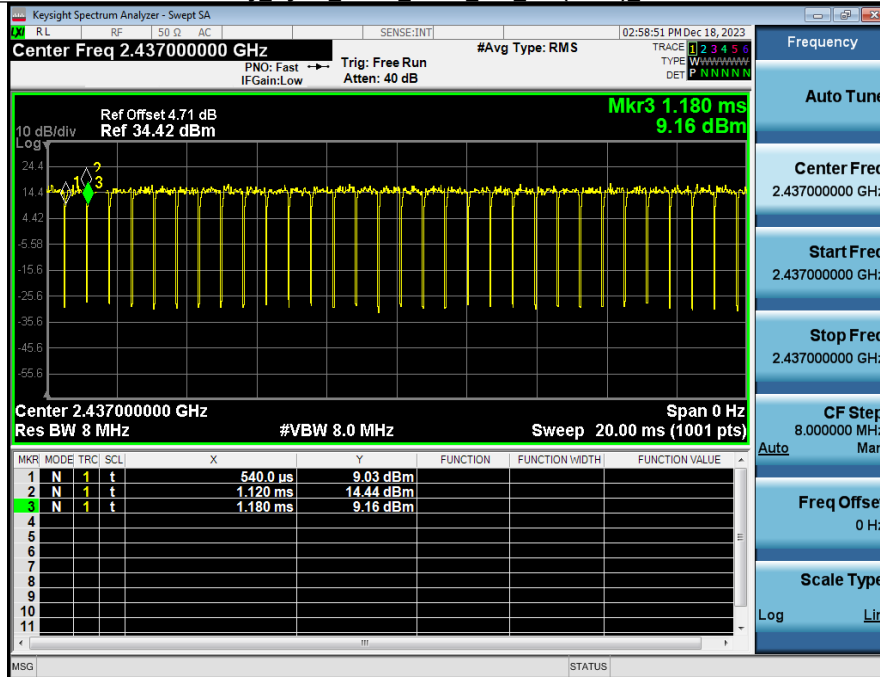
Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



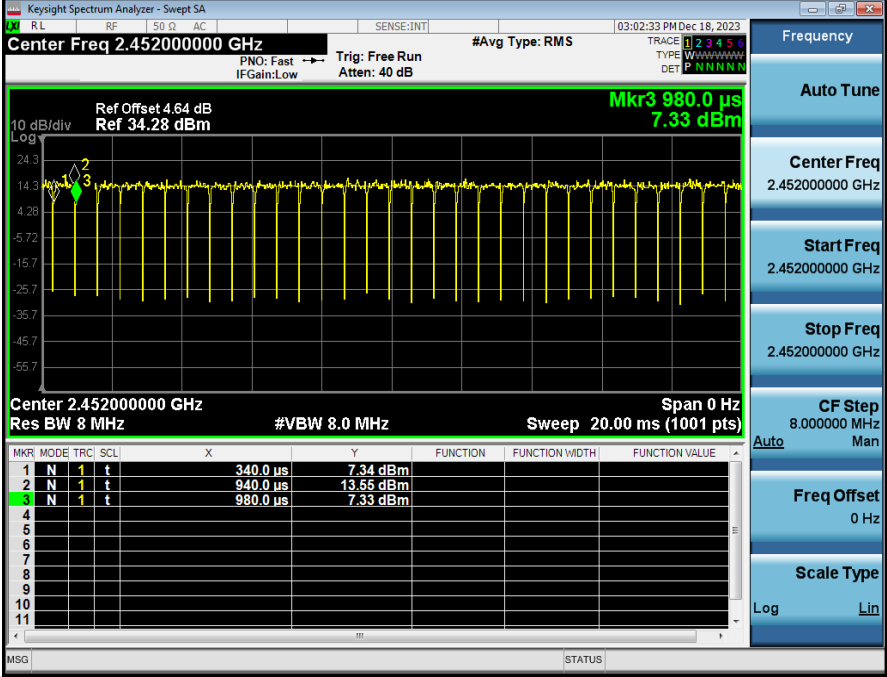
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



Duty Cycle NVNT_ANT1_802_11n(HT40)_2437



Duty Cycle NVNT_ANT1_802_11n(HT40)_2452



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	-1.67	-10.00	-11.67	8	Pass
NVNT	ANT1	802.11b	2437.00	-2.60	-10.00	-12.60	8	Pass
NVNT	ANT1	802.11b	2462.00	-1.98	-10.00	-11.98	8	Pass
NVNT	ANT1	802.11g	2412.00	-5.80	-10.00	-15.80	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.38	-10.00	-11.38	8	Pass
NVNT	ANT1	802.11g	2462.00	-0.79	-10.00	-10.79	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-2.51	-10.00	-12.51	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.77	-10.00	-11.77	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-1.52	-10.00	-11.52	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-4.41	-10.00	-14.41	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-4.75	-10.00	-14.75	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-5.05	-10.00	-15.05	8	Pass



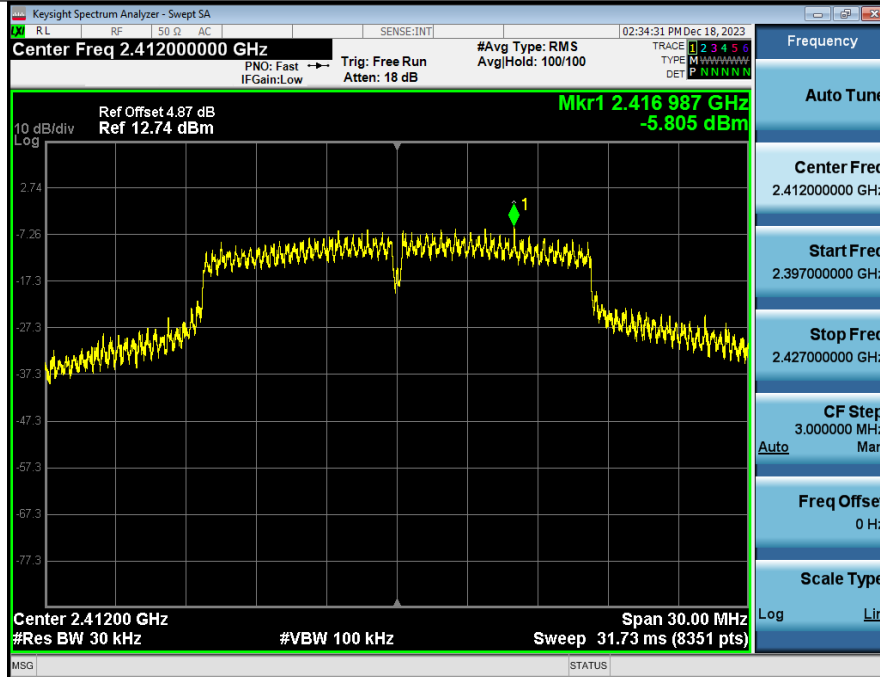
Power Spectral Density NVNT_ANT1_802_11b_2437



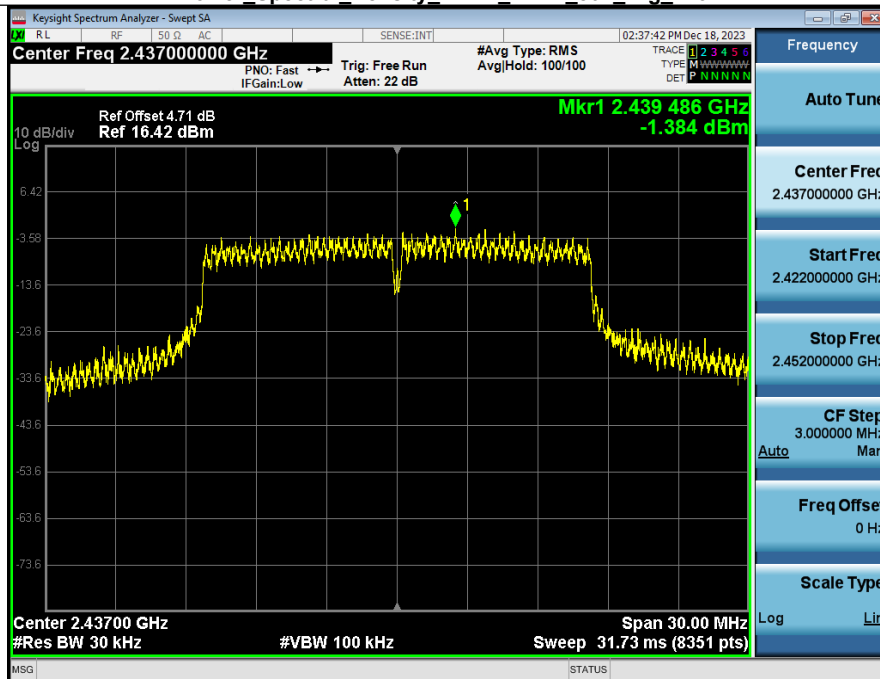
Power Spectral Density NVNT_ANT1_802_11b_2462



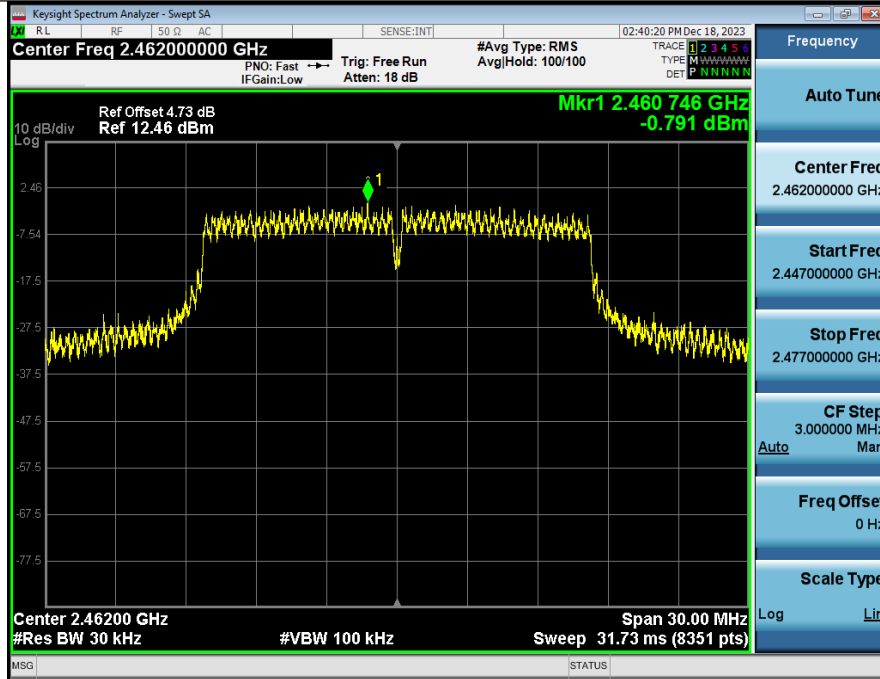
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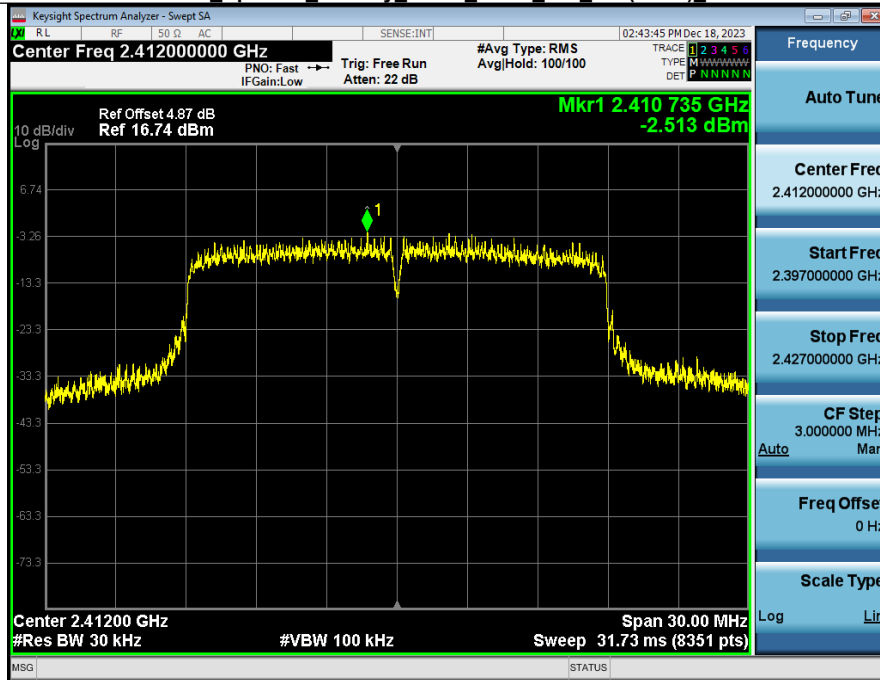
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



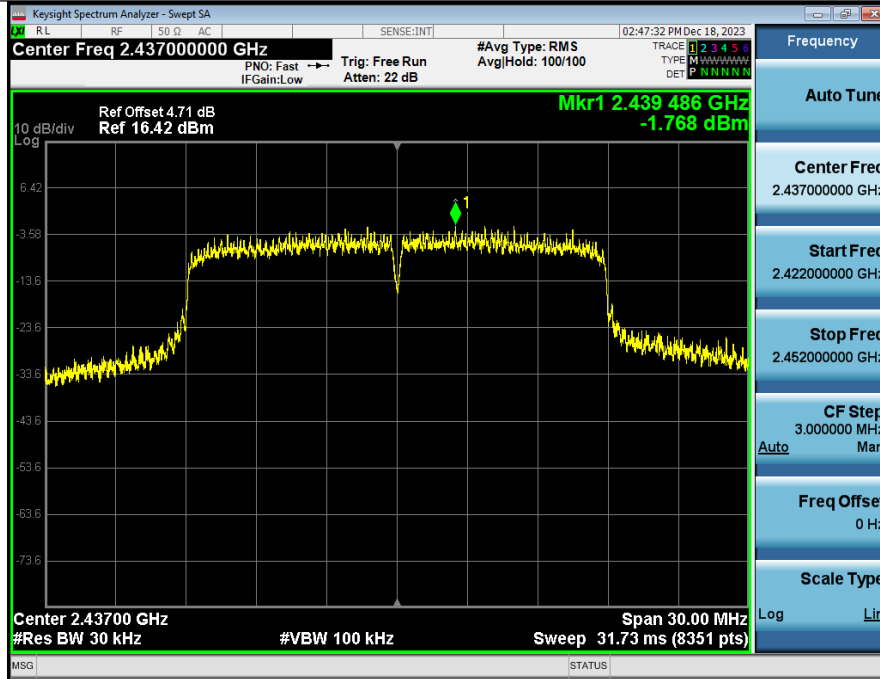
Power Spectral Density_NVNT_ANT1_802_11g_2462



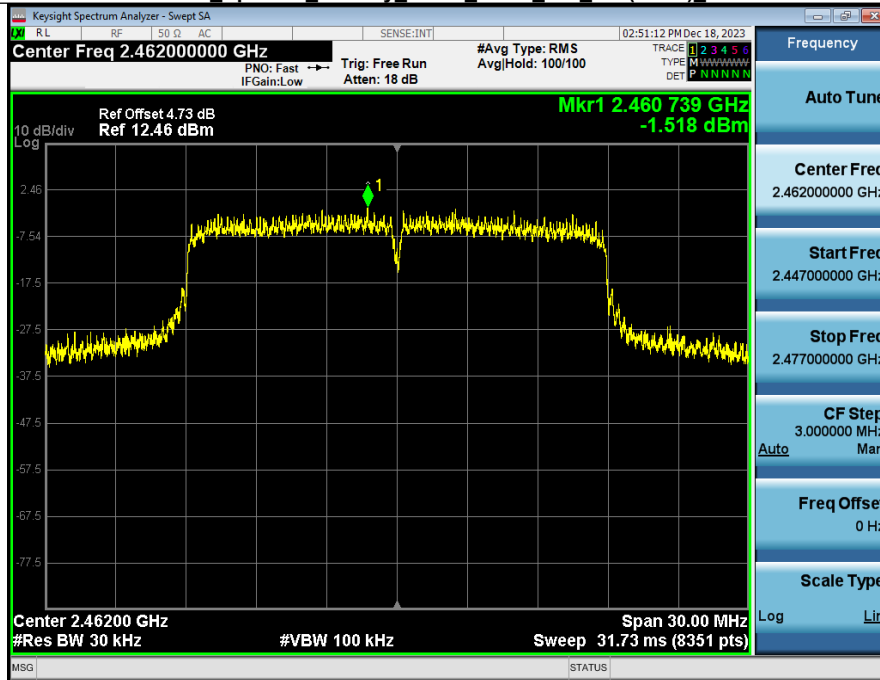
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2412



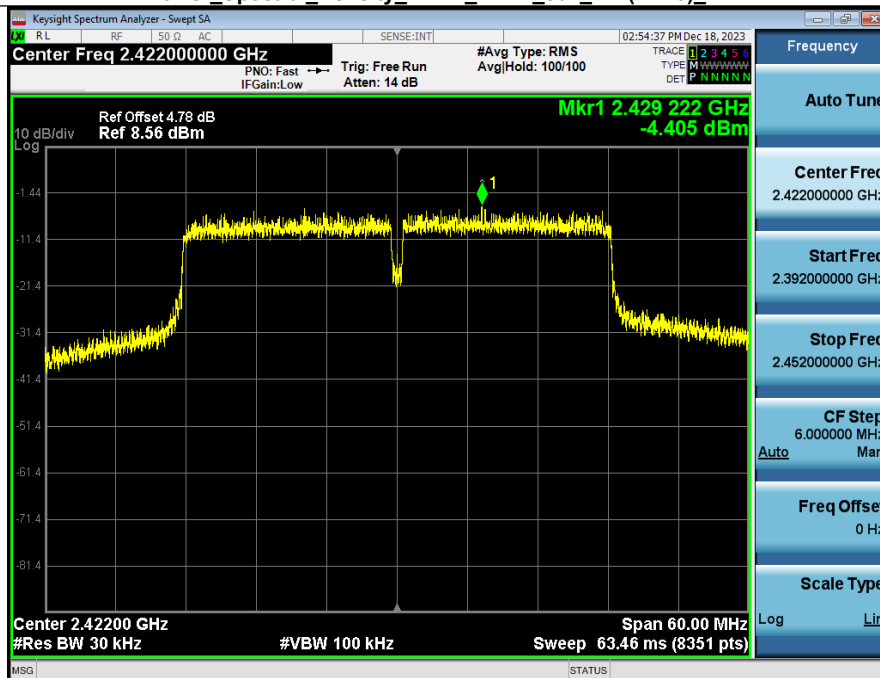
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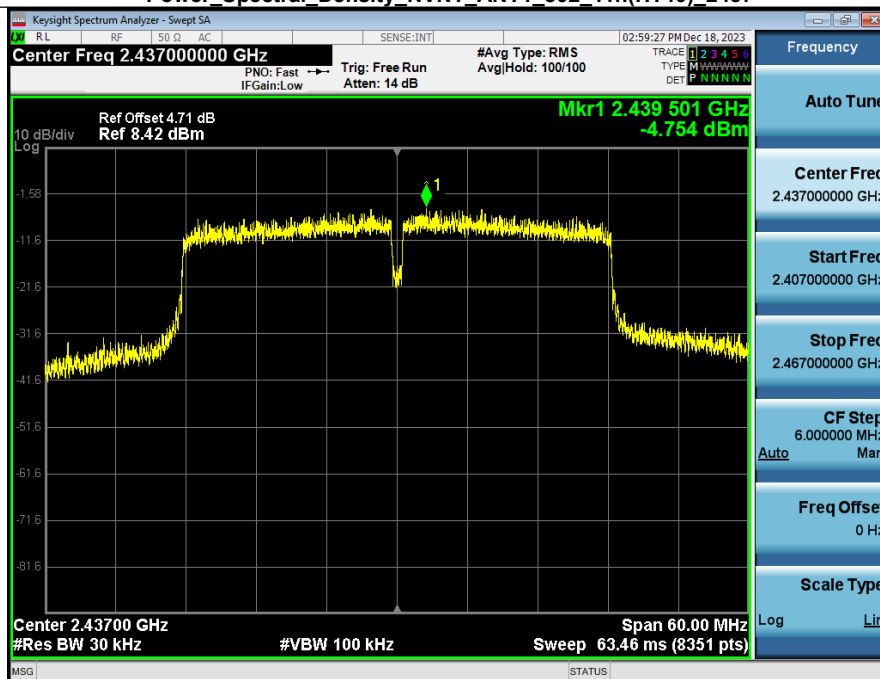
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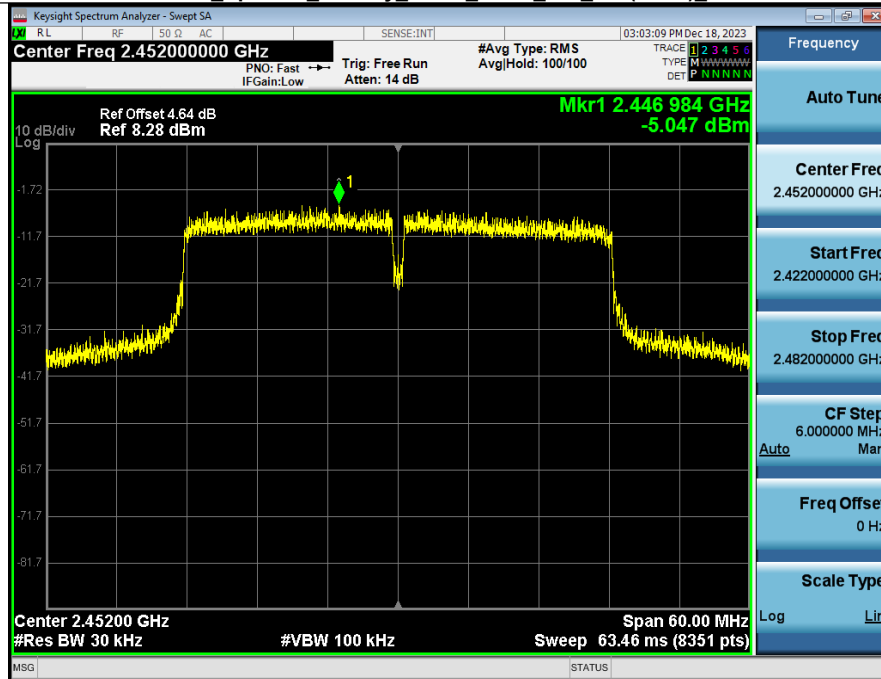
Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2437

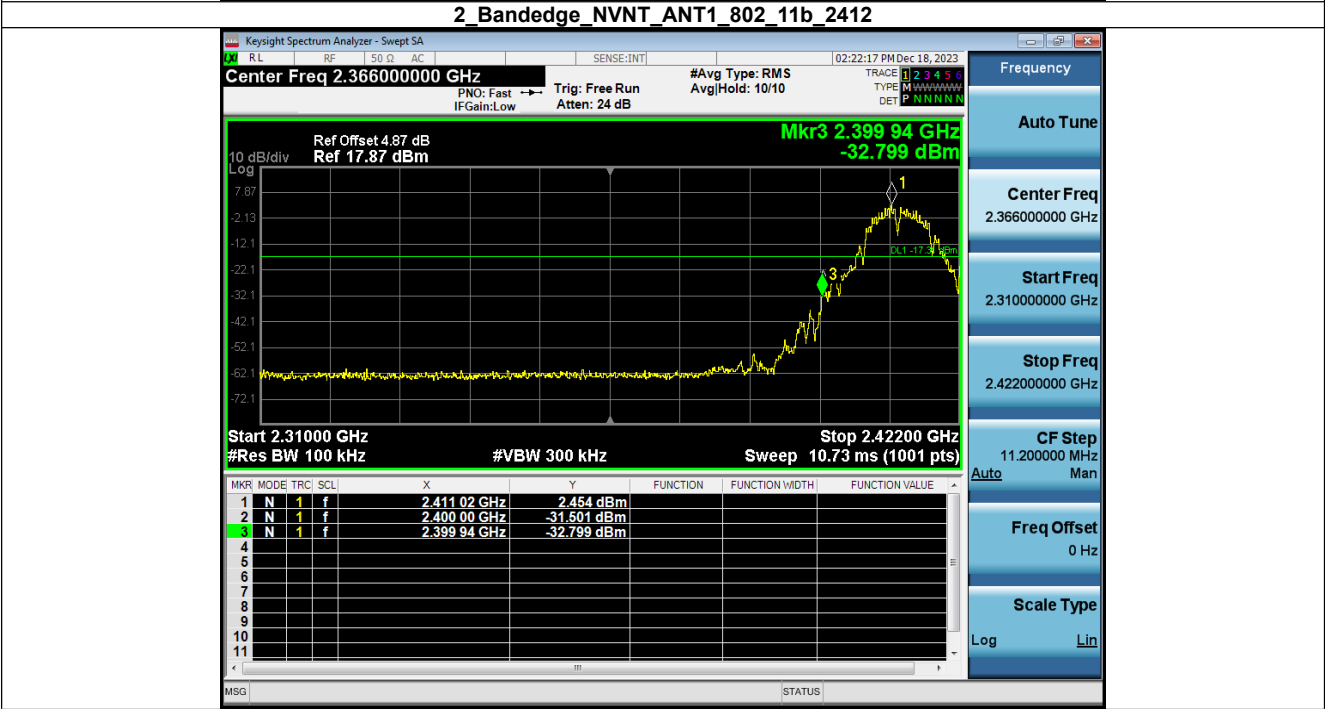


Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2452



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	-32.799	-17.312	Pass
NVNT	ANT1	802.11b	2462.00	2483.536	-49.165	-18.353	Pass
NVNT	ANT1	802.11g	2412.00	2399.936	-23.456	-21.380	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	-33.968	-16.582	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.256	-26.039	-18.852	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.544	-34.017	-16.656	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.892	-25.832	-19.564	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.768	-32.972	-20.138	Pass



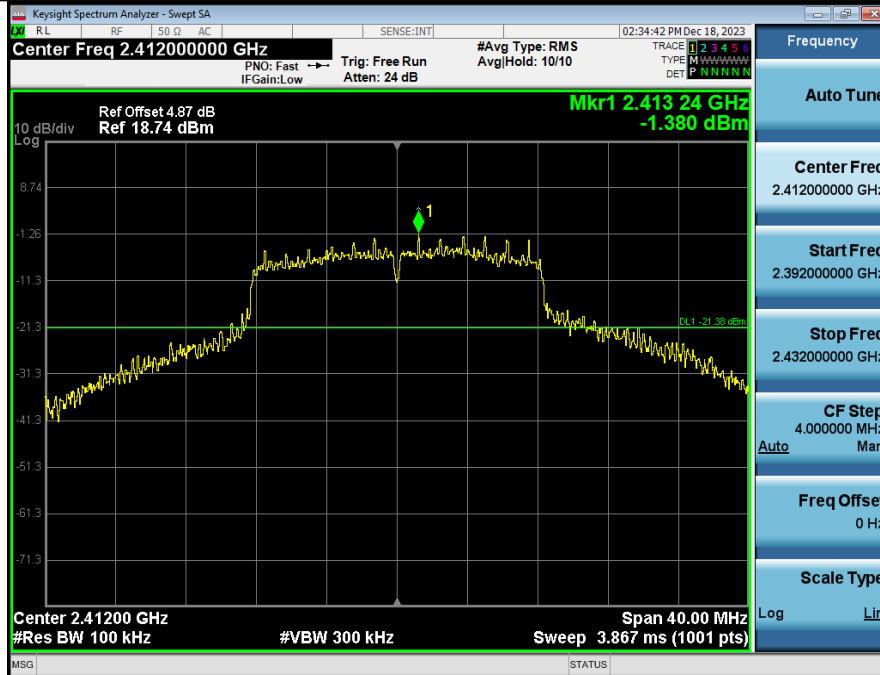
1_Reference_Level_NVNT_ANT1_802_11b_2462



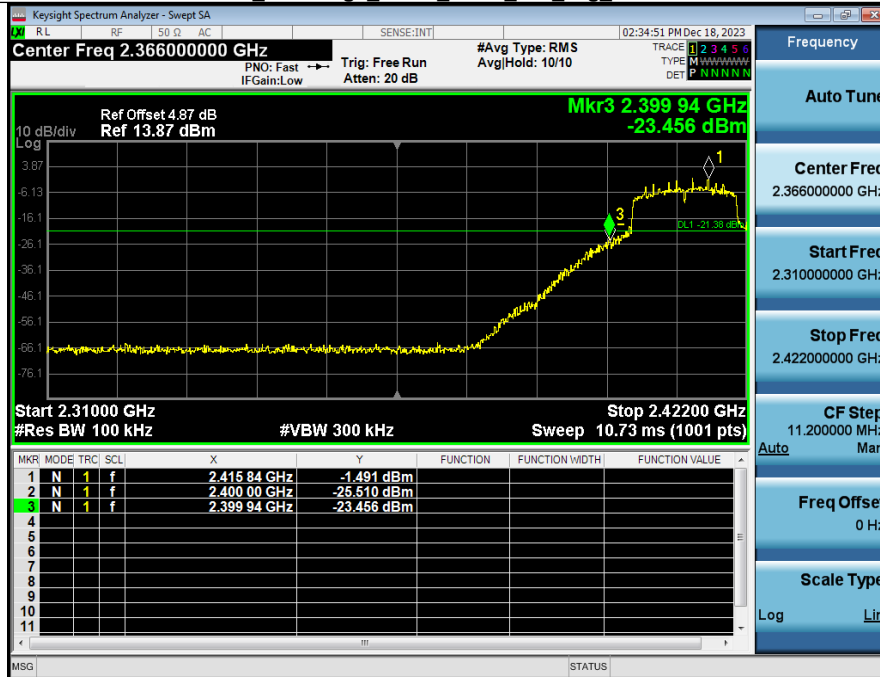
2_Bandedge_NVNT_ANT1_802_11b_2462



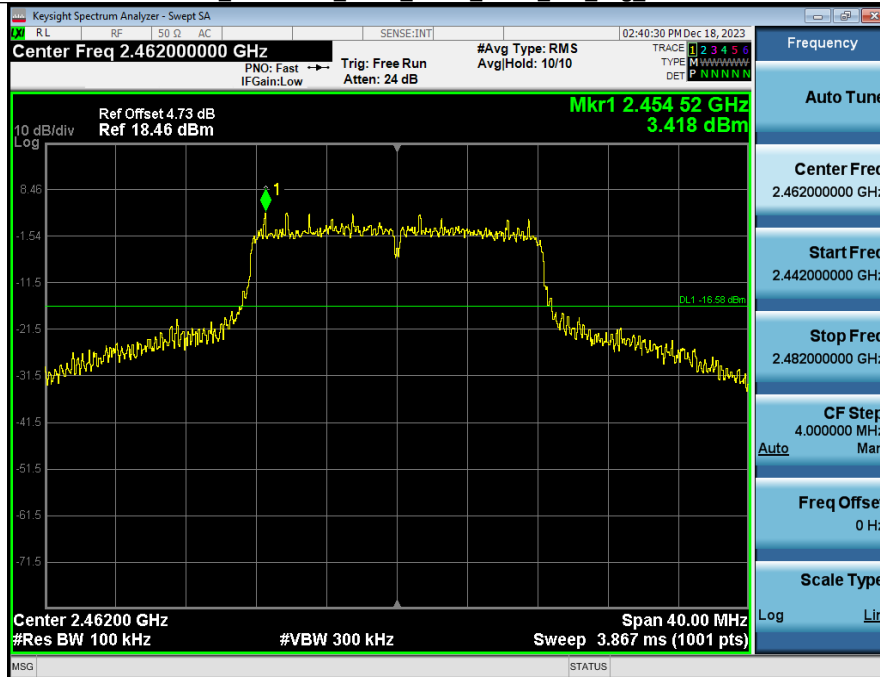
1_Reference_Level_NVNT_ANT1_802_11g_2412



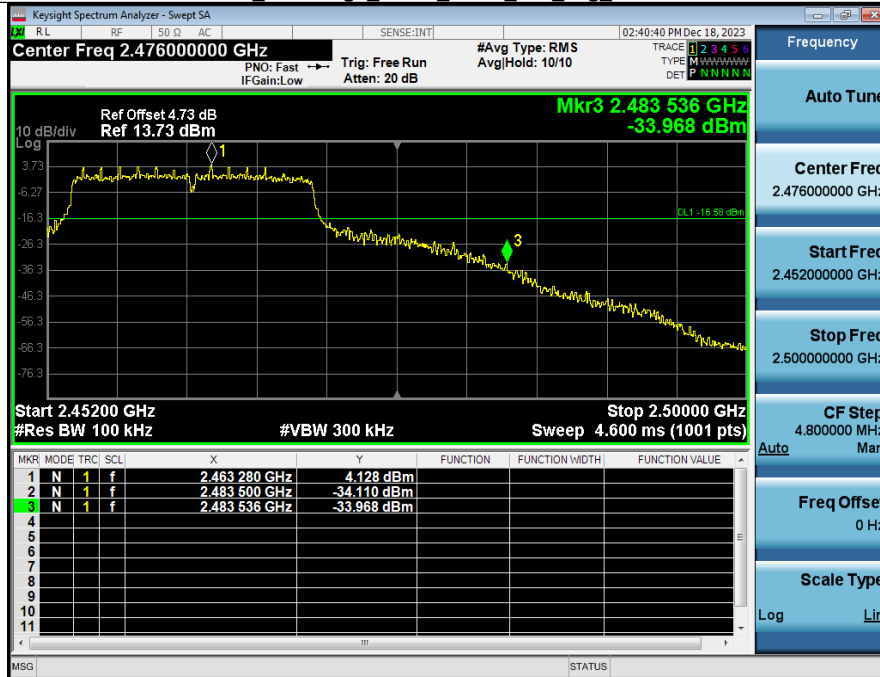
2_Bandedge_NVNT_ANT1_802_11g_2412



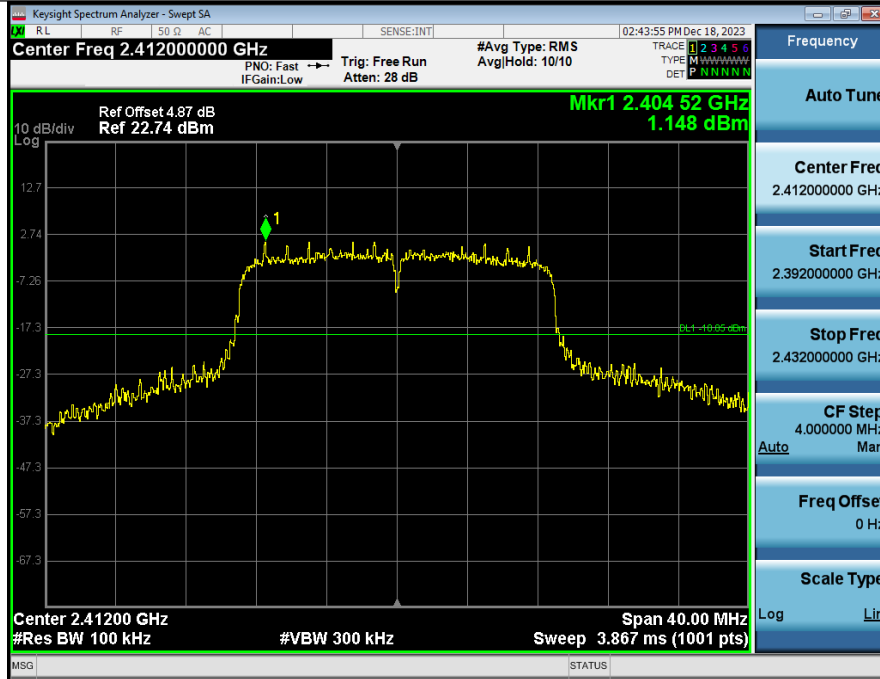
1_Reference_Level_NVNT_ANT1_802_11g_2462



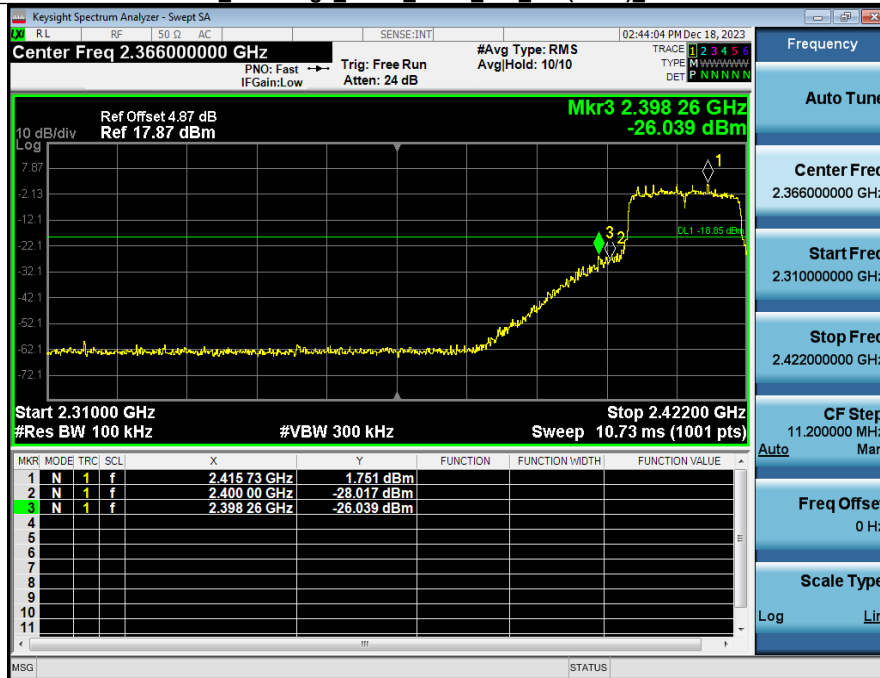
2_Bandedge_NVNT_ANT1_802_11g_2462



1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



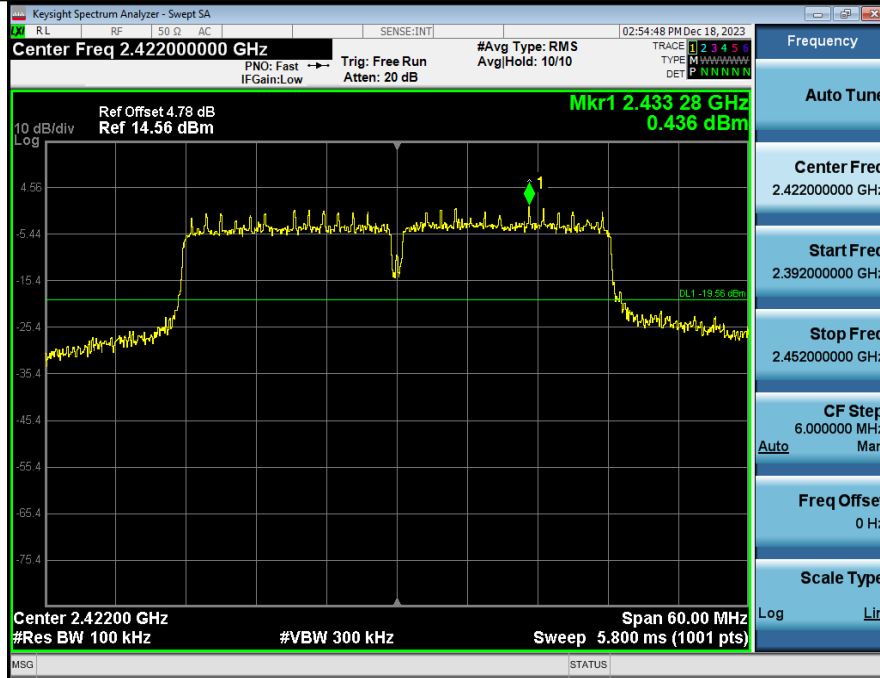
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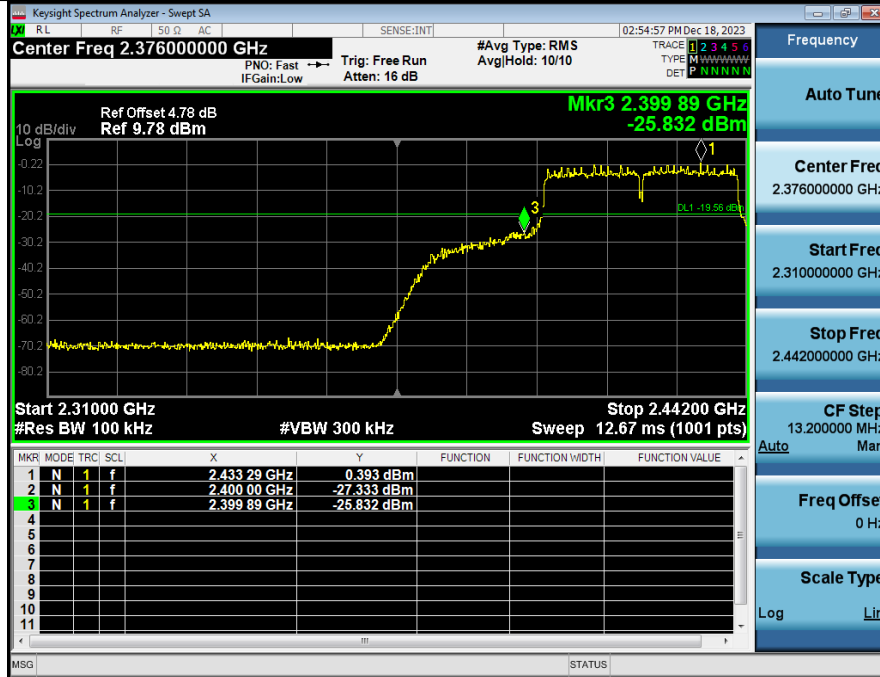
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



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

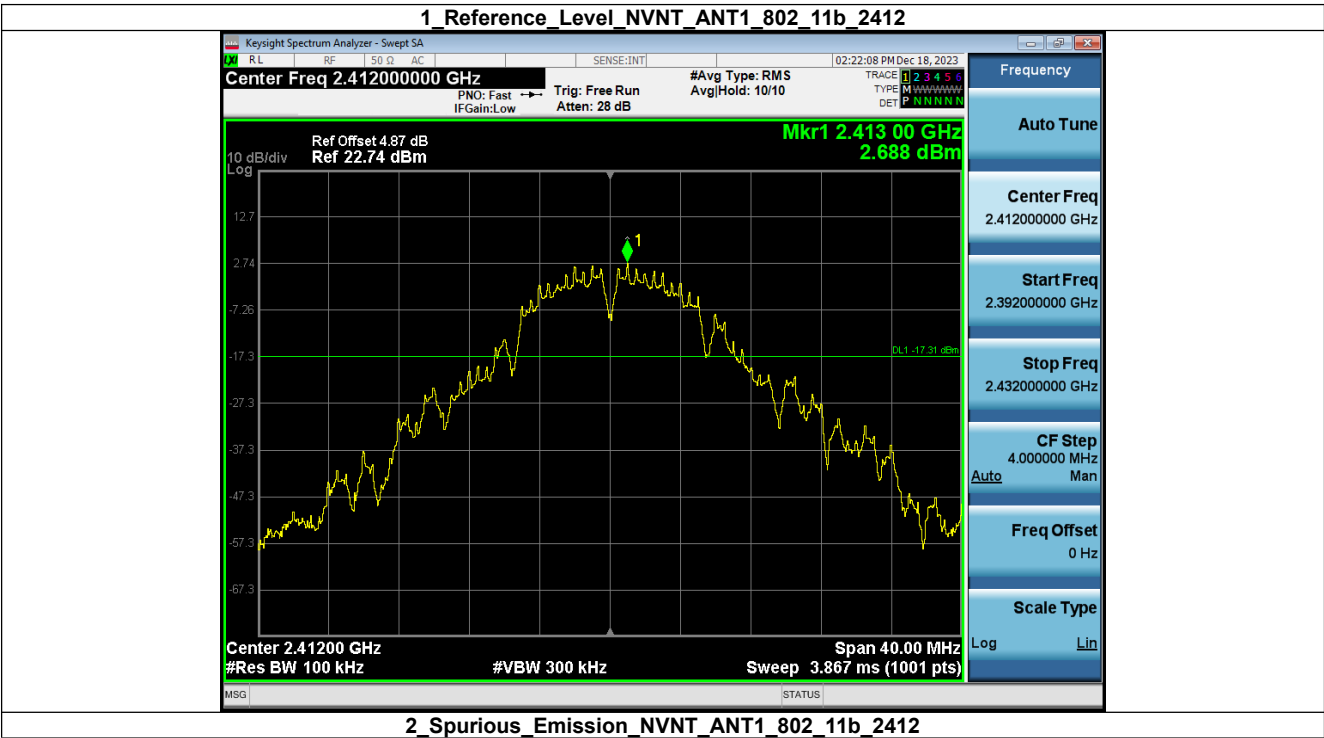


2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452

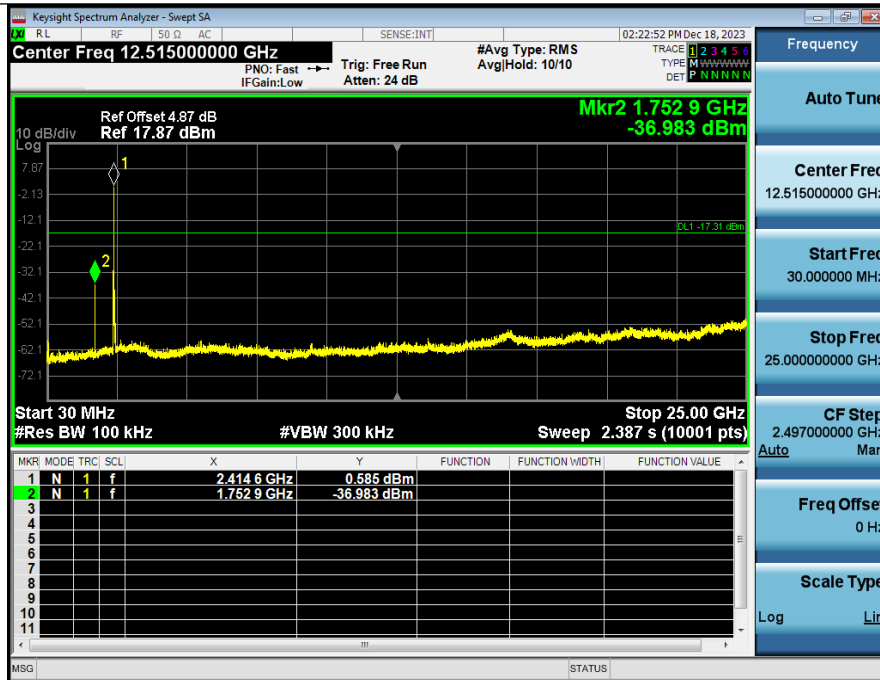


7. Spurious Emission

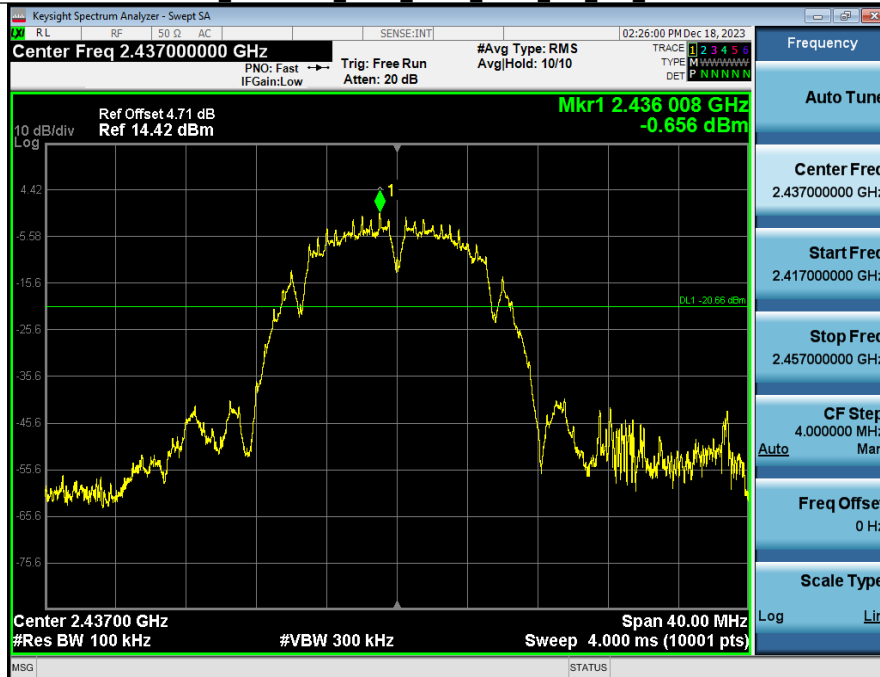
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	1752.930	-36.983	-17.312	Pass
NVNT	ANT1	802.11b	2437.00	1745.439	-22.593	-20.656	Pass
NVNT	ANT1	802.11b	2462.00	24887.635	-50.618	-18.353	Pass
NVNT	ANT1	802.11g	2412.00	891.465	-38.088	-21.380	Pass
NVNT	ANT1	802.11g	2437.00	24967.539	-49.636	-16.782	Pass
NVNT	ANT1	802.11g	2462.00	24947.563	-54.063	-16.582	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	721.669	-19.717	-18.852	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	704.190	-49.438	-16.947	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	719.172	-32.007	-16.656	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24922.593	-52.255	-19.852	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24967.539	-52.069	-20.206	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	714.178	-37.520	-20.138	Pass



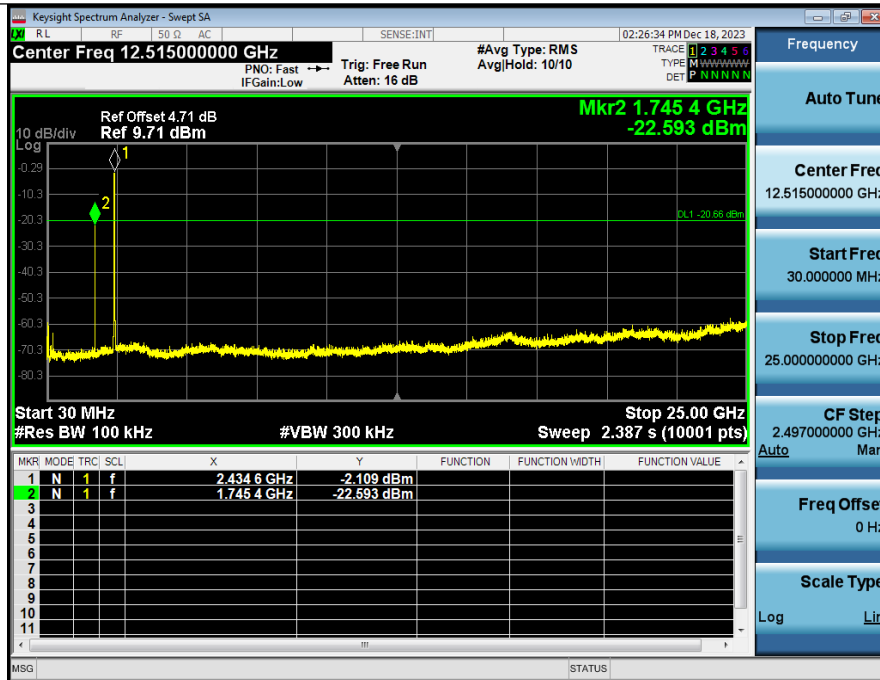
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1 Reference_Level_NVNT_ANT1_802_11b_2437



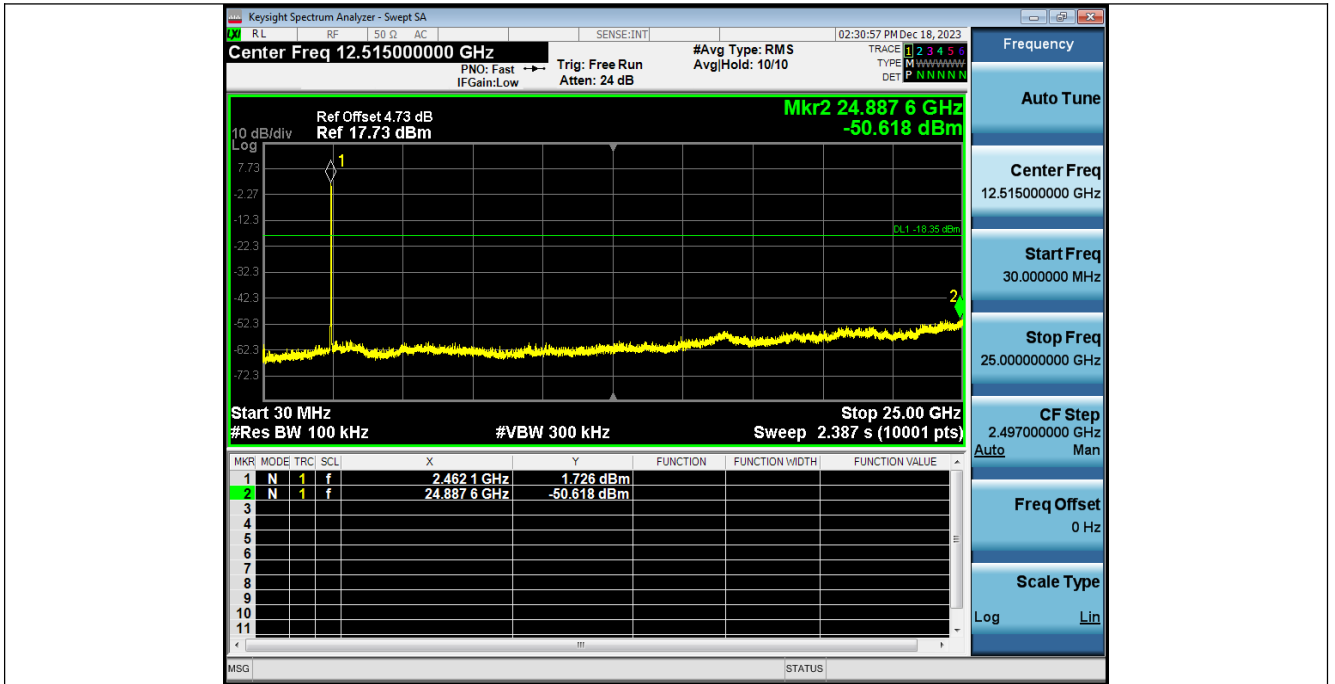
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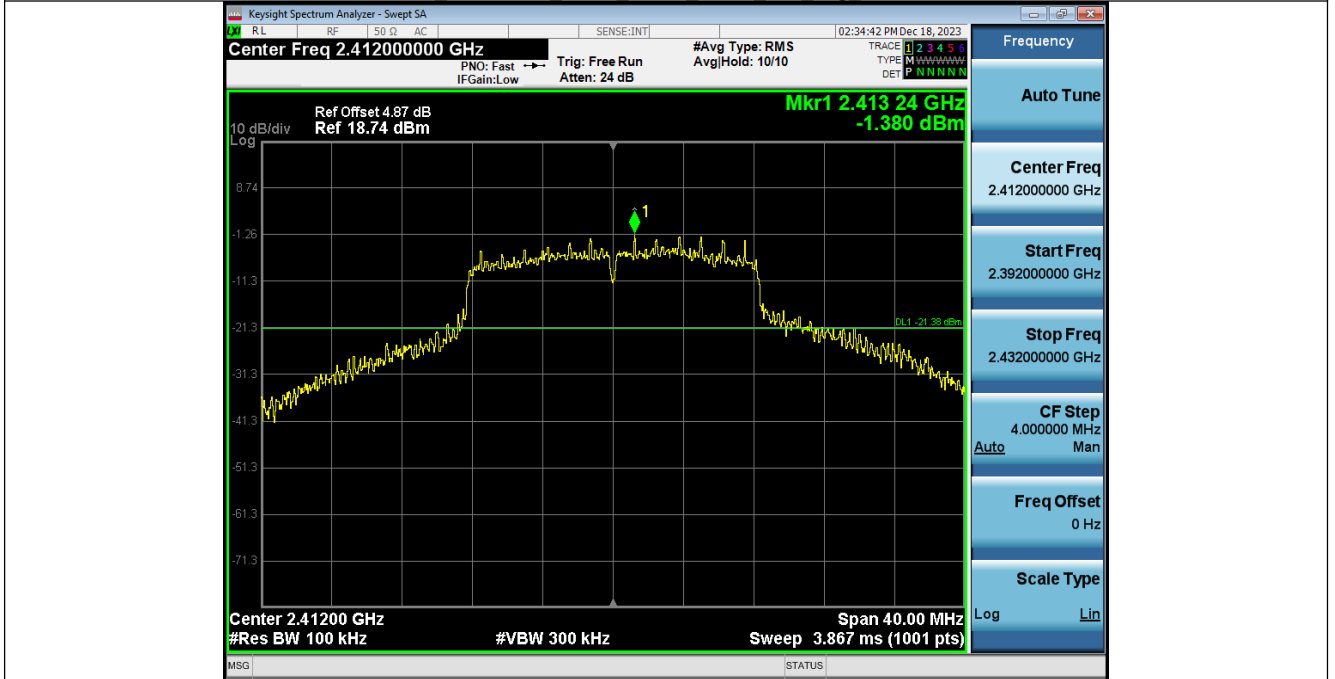
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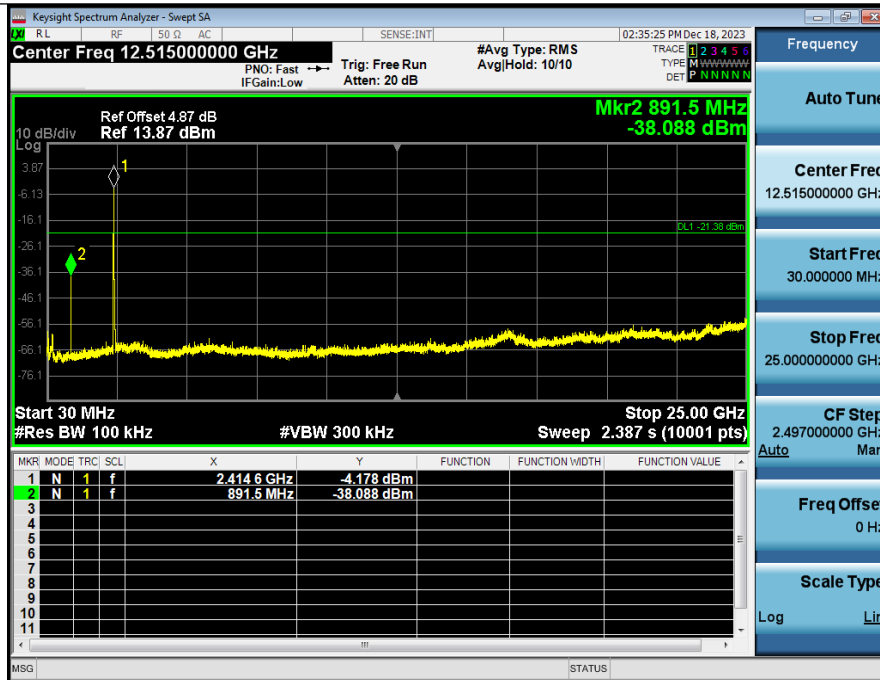
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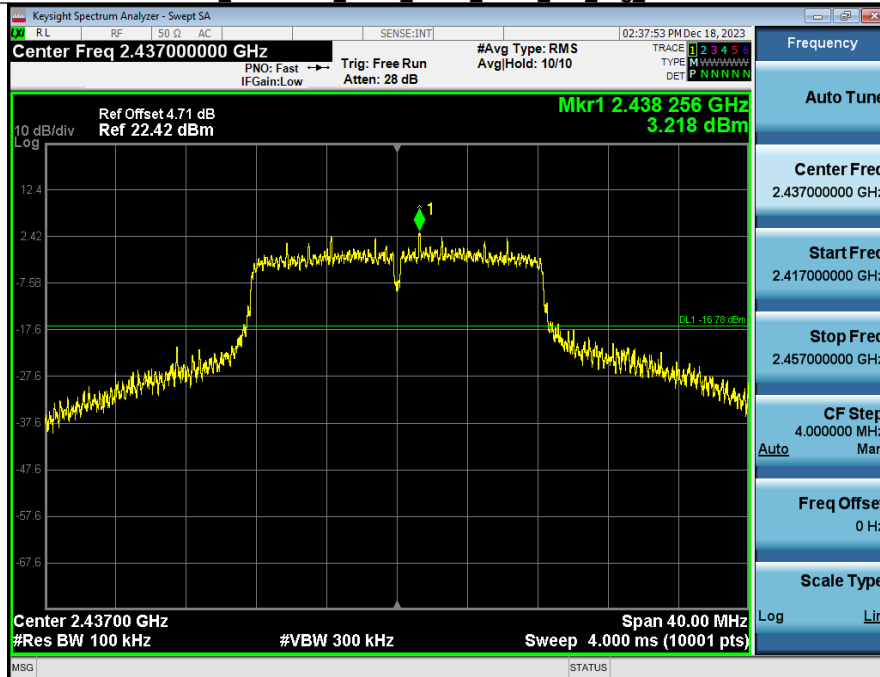
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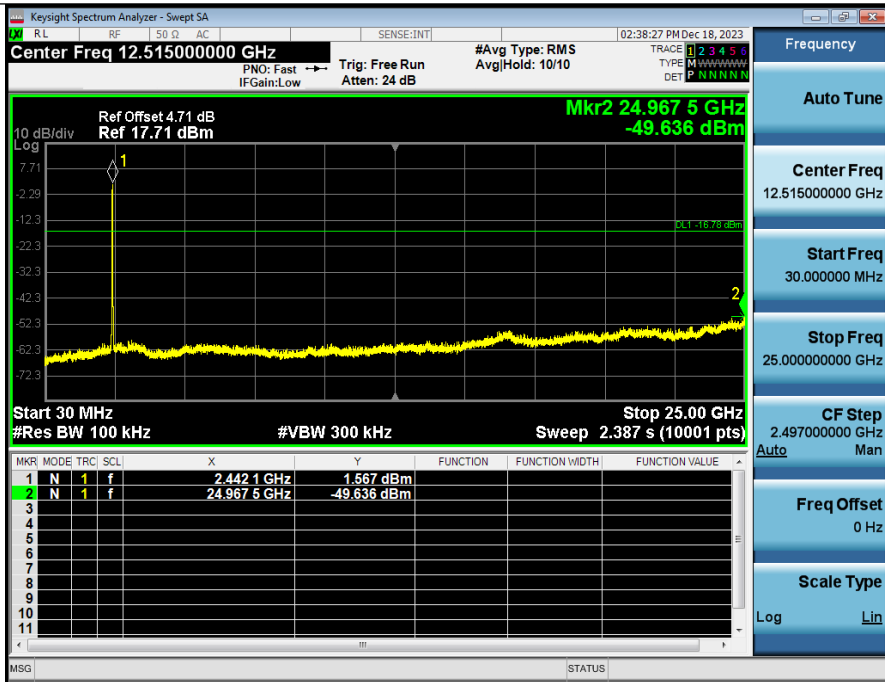
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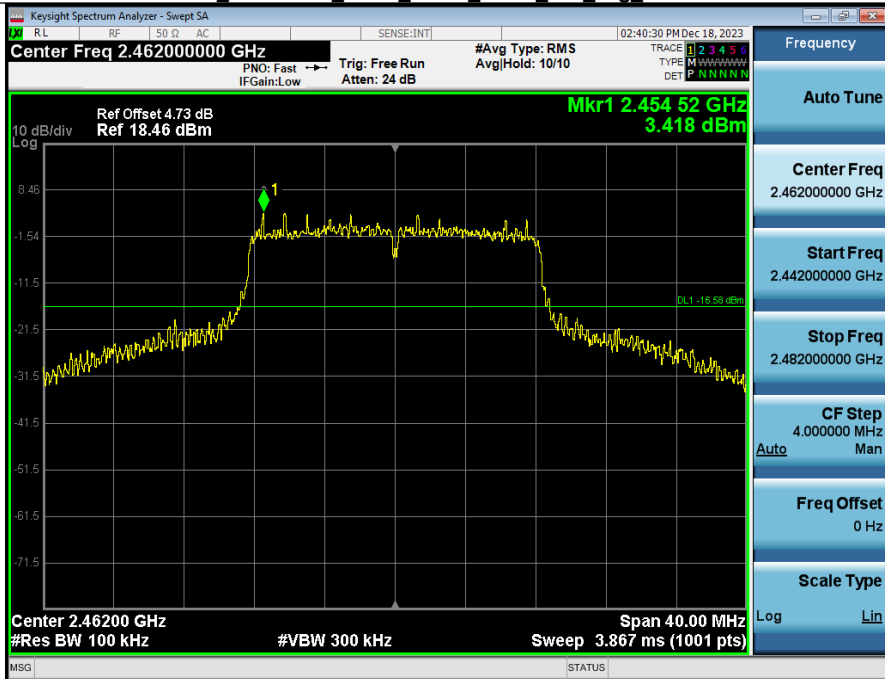
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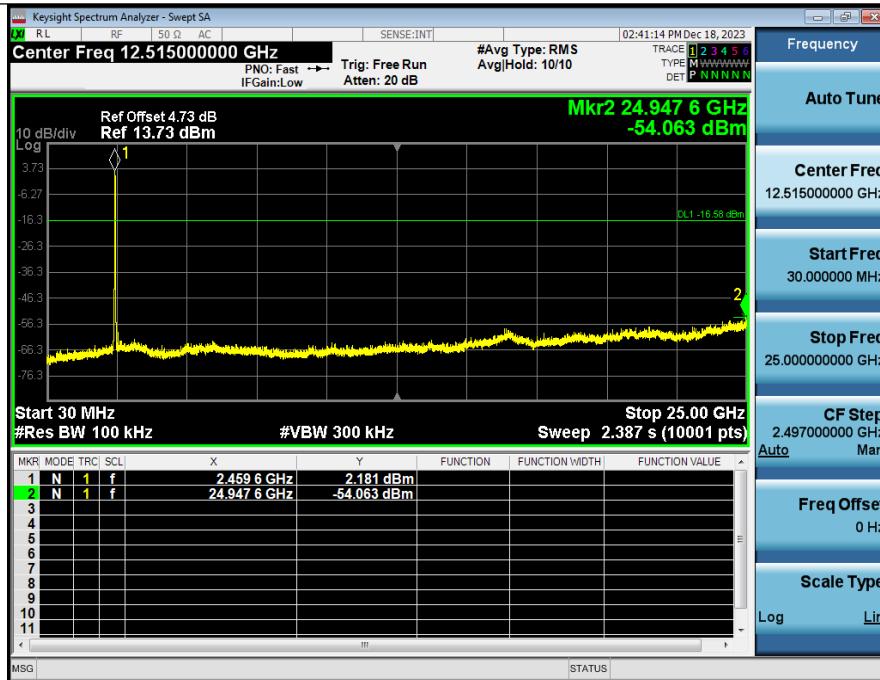
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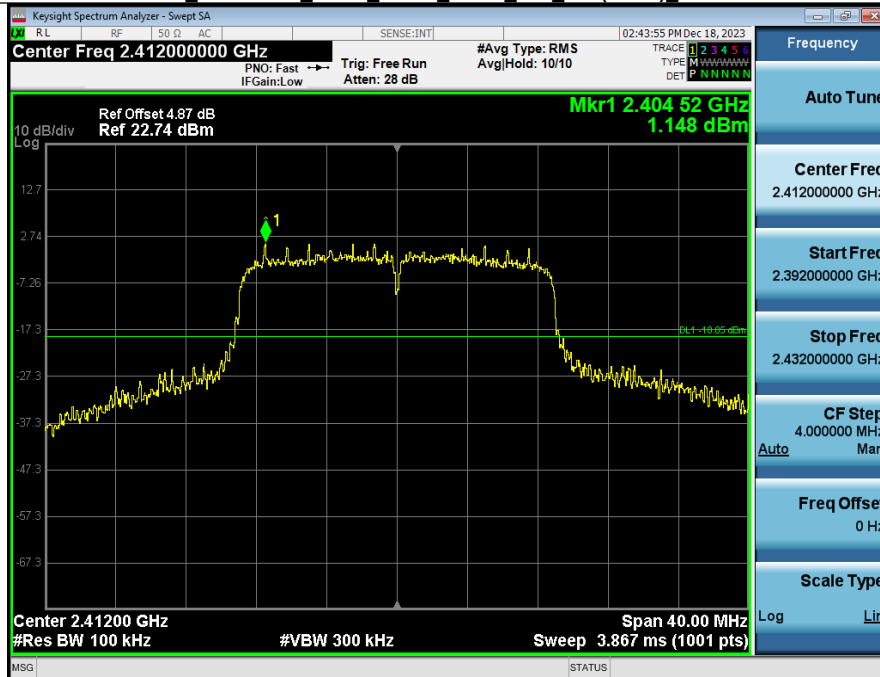
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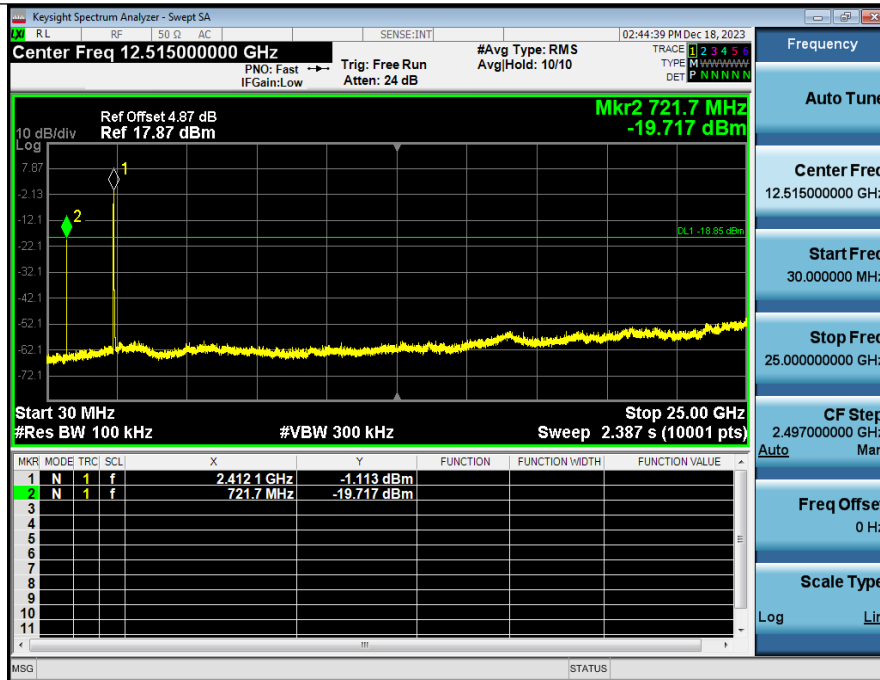
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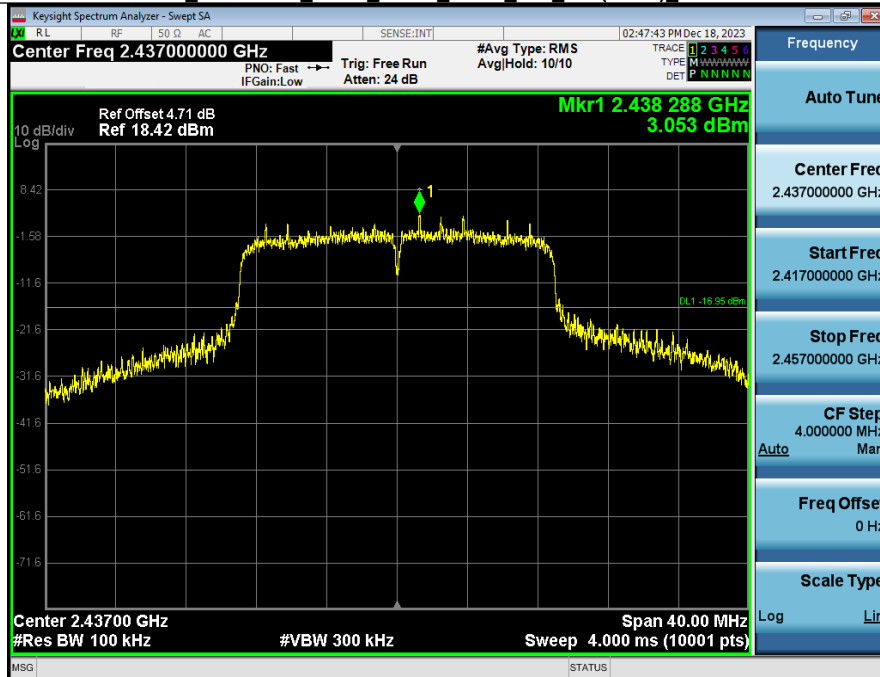
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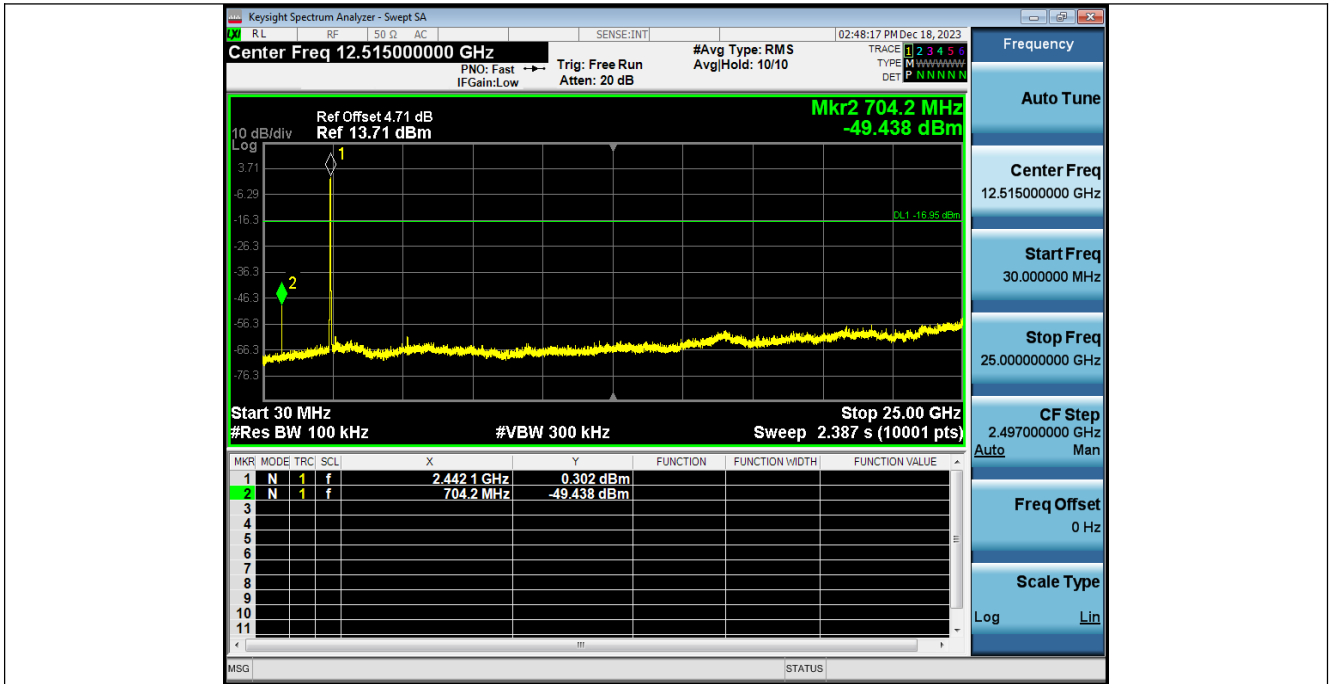
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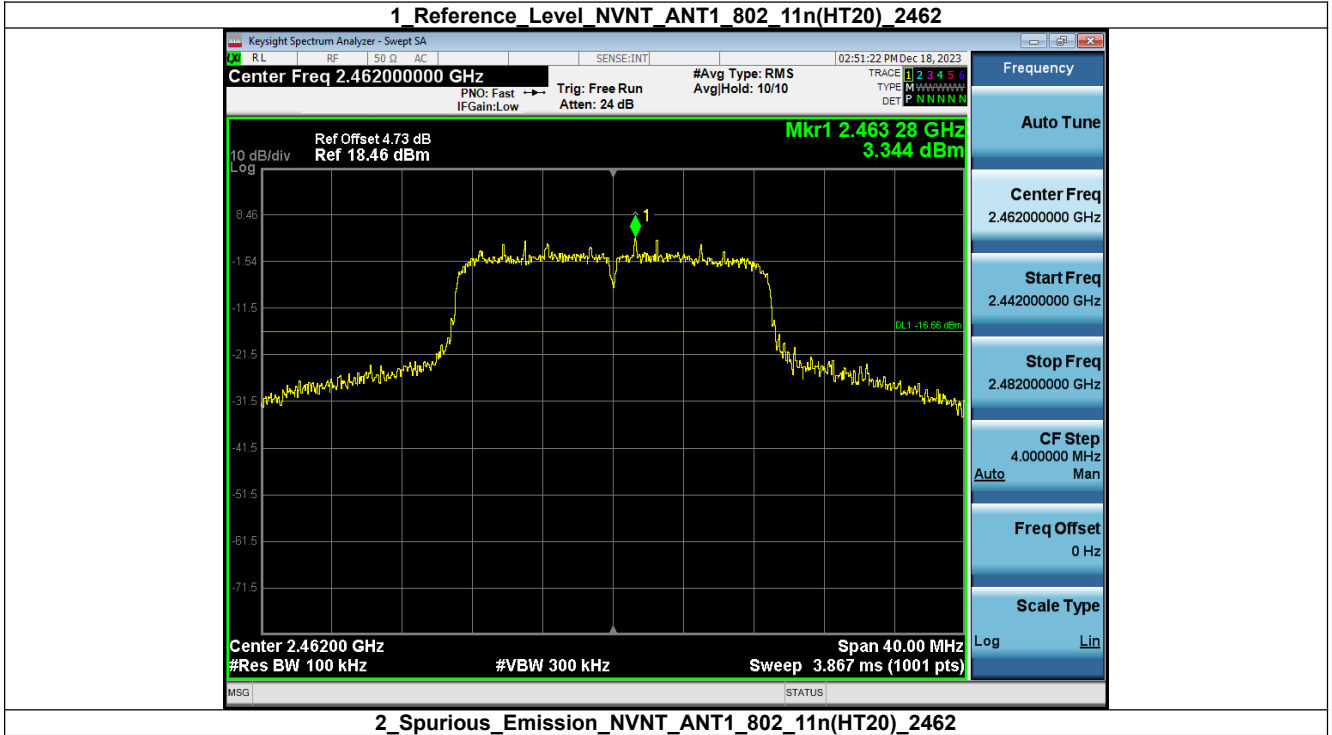
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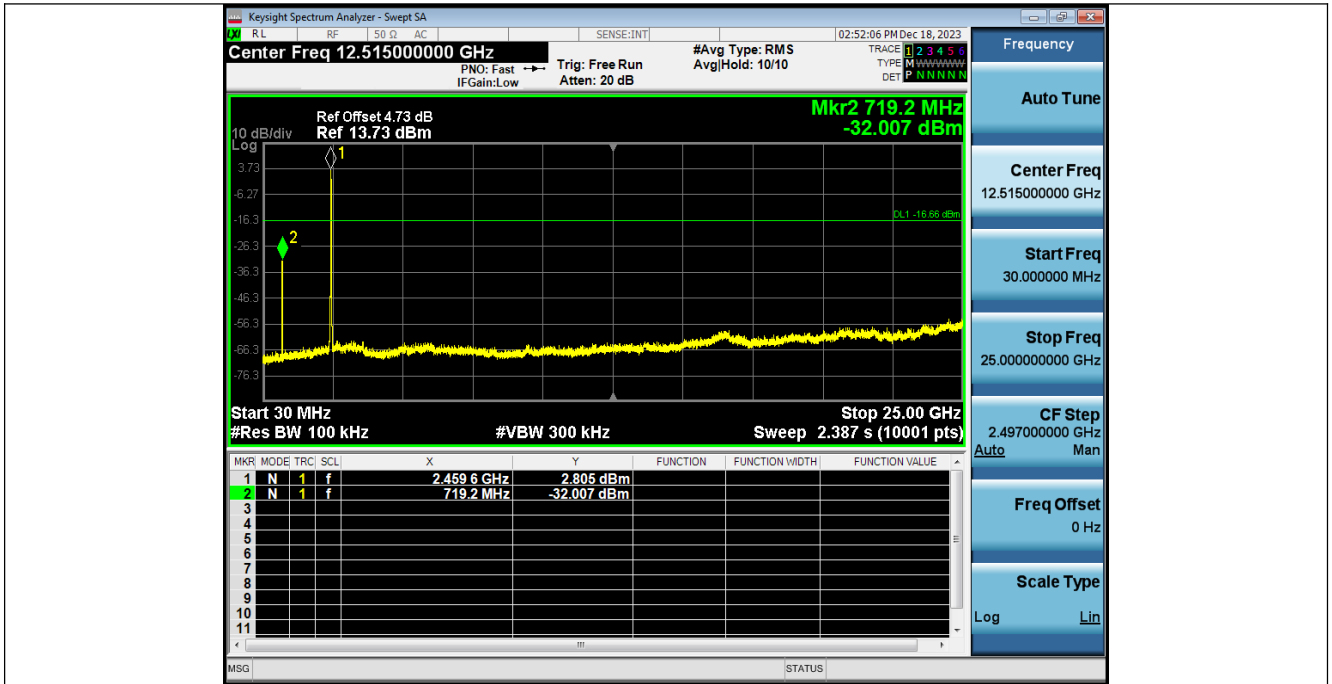
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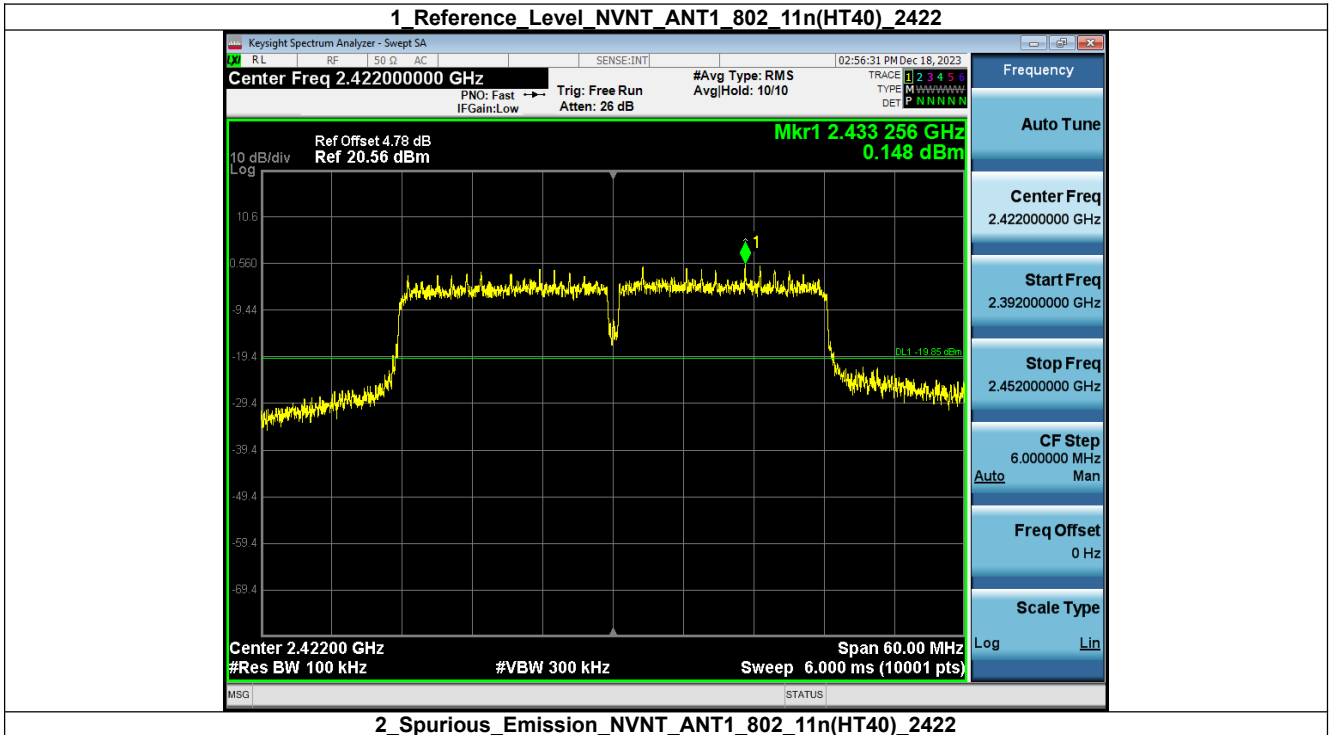
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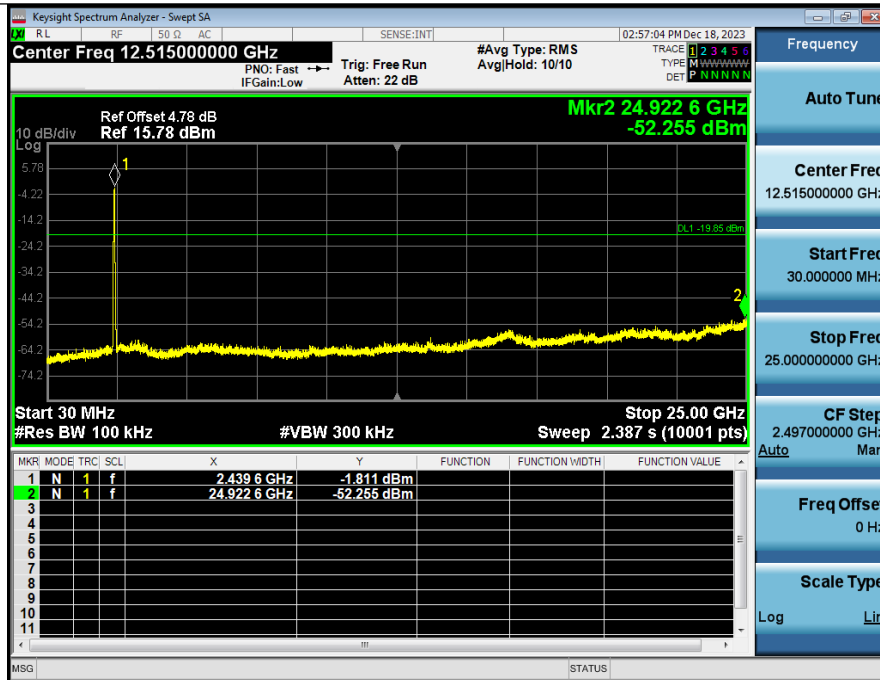
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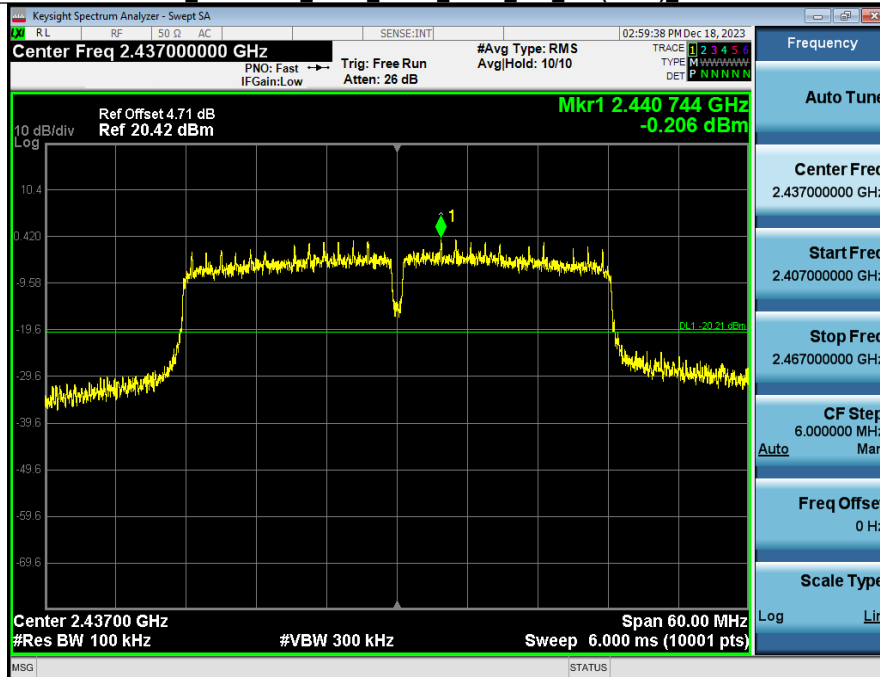
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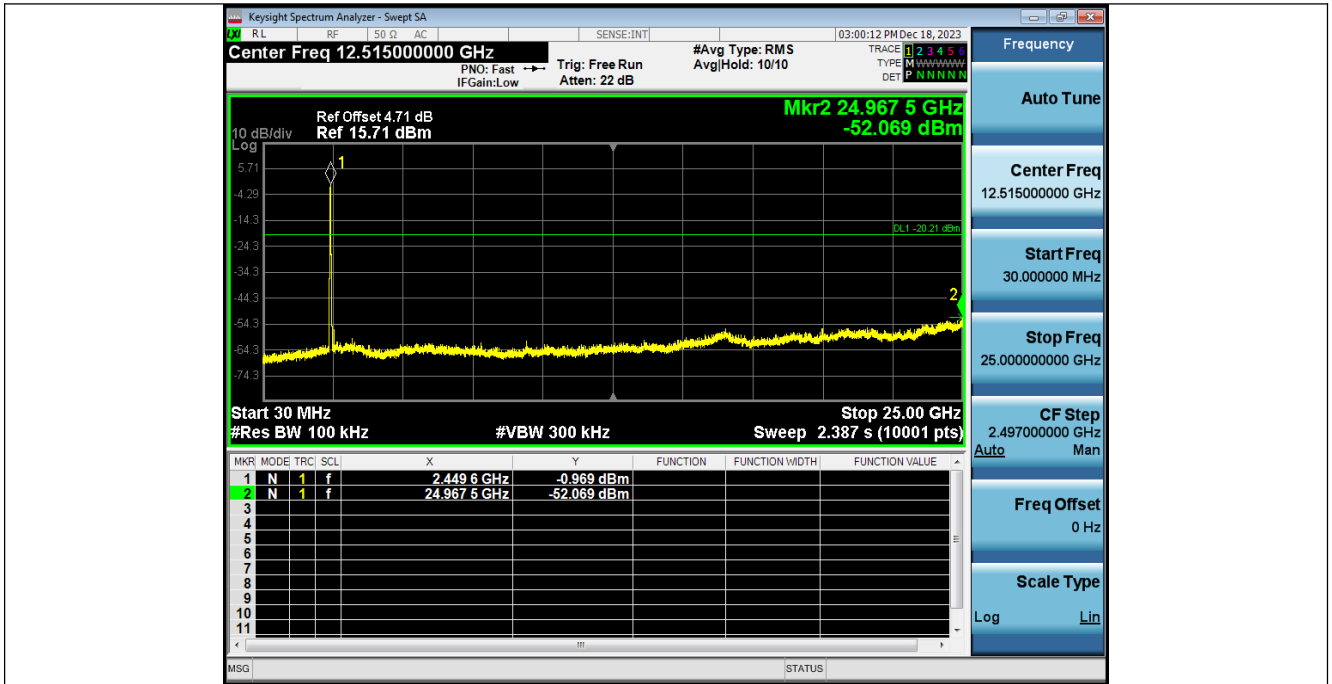
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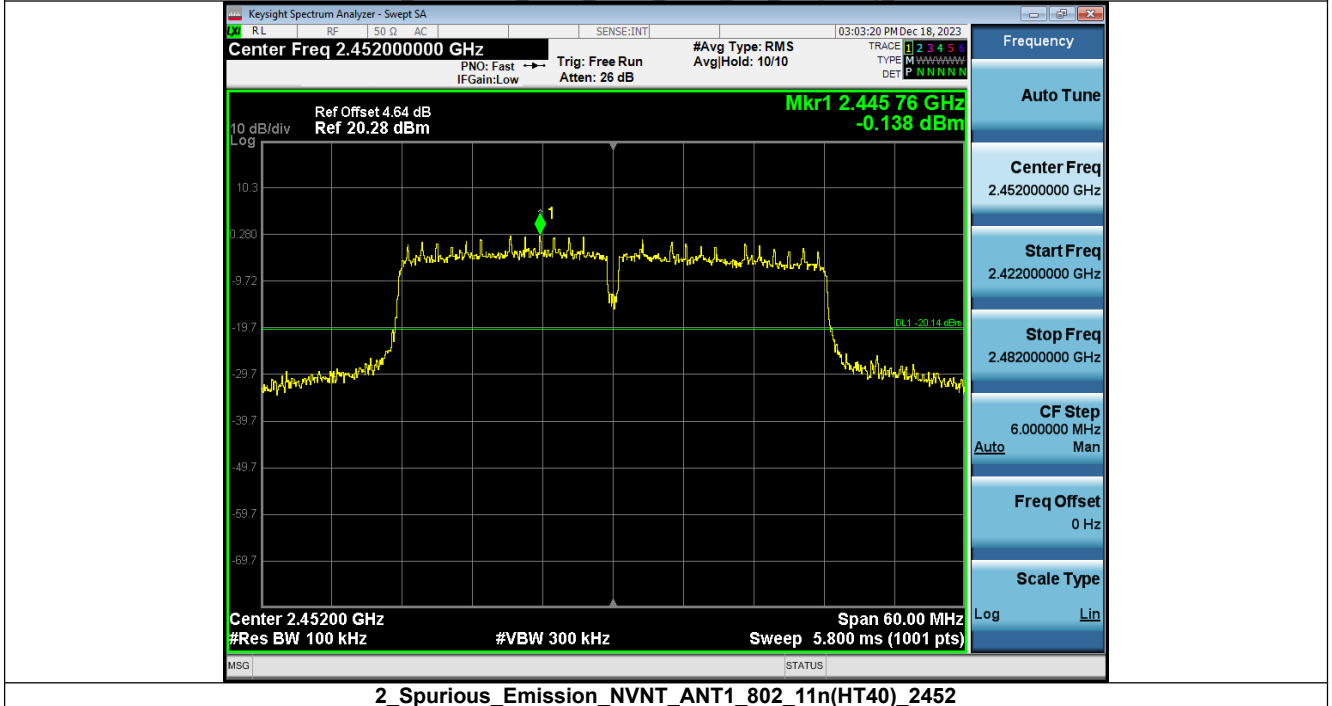
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2 Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



1 Reference Level NVNT_ANT1_802_11n(HT40)_2452



2 Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452

