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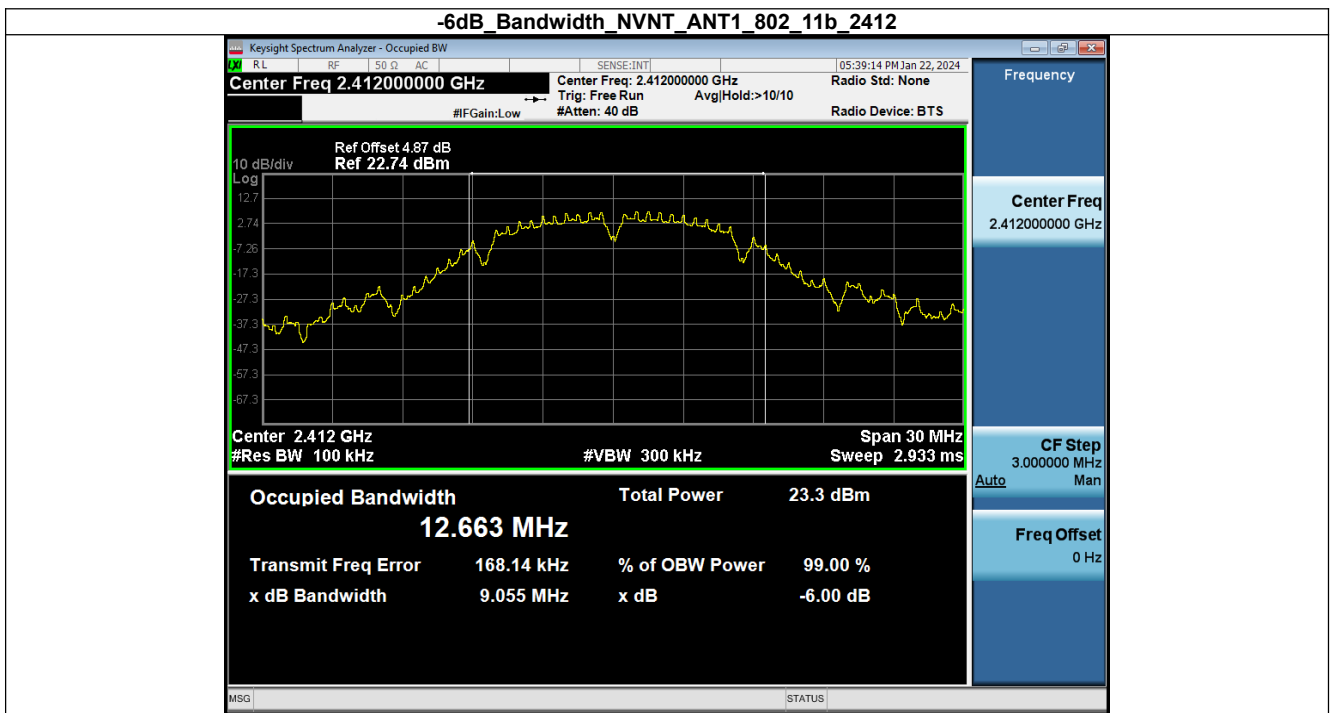
7. Spurious Emission38

FCC ID: 2BENR-DH-901

FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

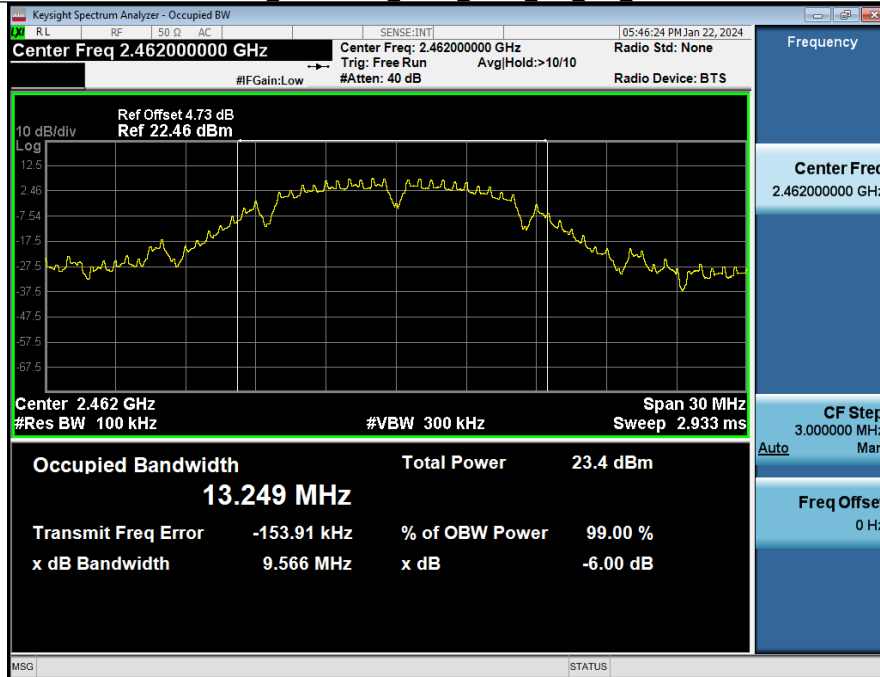
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.05	500	Pass
NVNT	ANT1	802.11b	2437.00	8.57	500	Pass
NVNT	ANT1	802.11b	2462.00	9.57	500	Pass
NVNT	ANT1	802.11g	2412.00	15.75	500	Pass
NVNT	ANT1	802.11g	2437.00	16.06	500	Pass
NVNT	ANT1	802.11g	2462.00	16.08	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.70	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.50	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.94	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.78	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.30	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.35	500	Pass



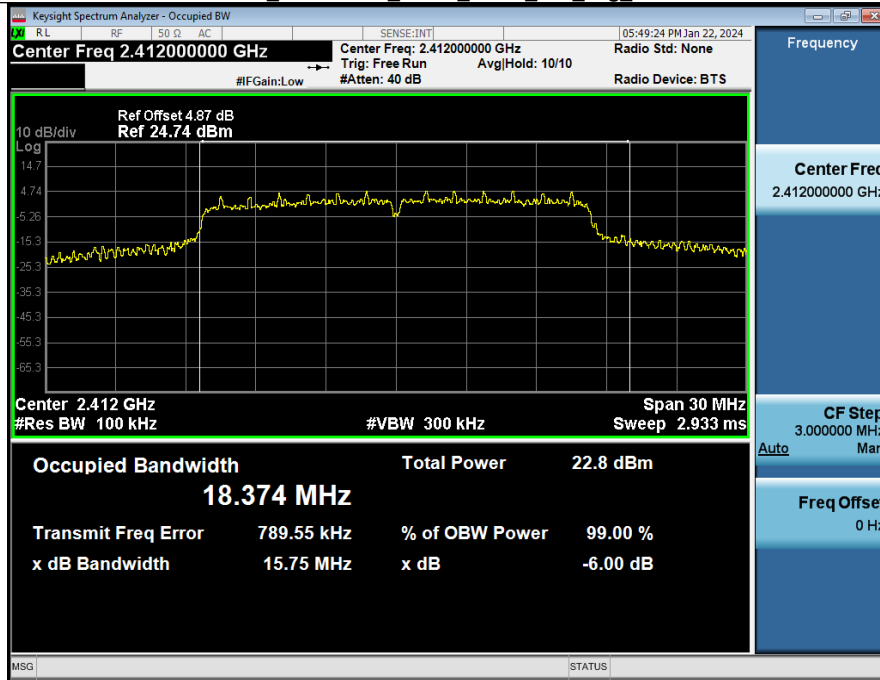
-6dB Bandwidth_NVNT_ANT1_802_11b_2437



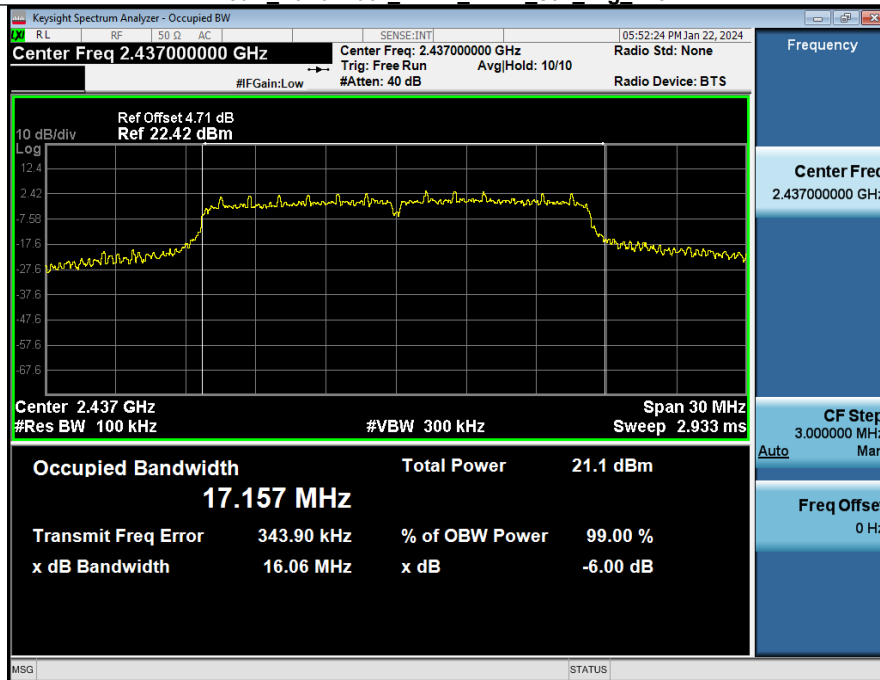
-6dB Bandwidth_NVNT_ANT1_802_11b_2462



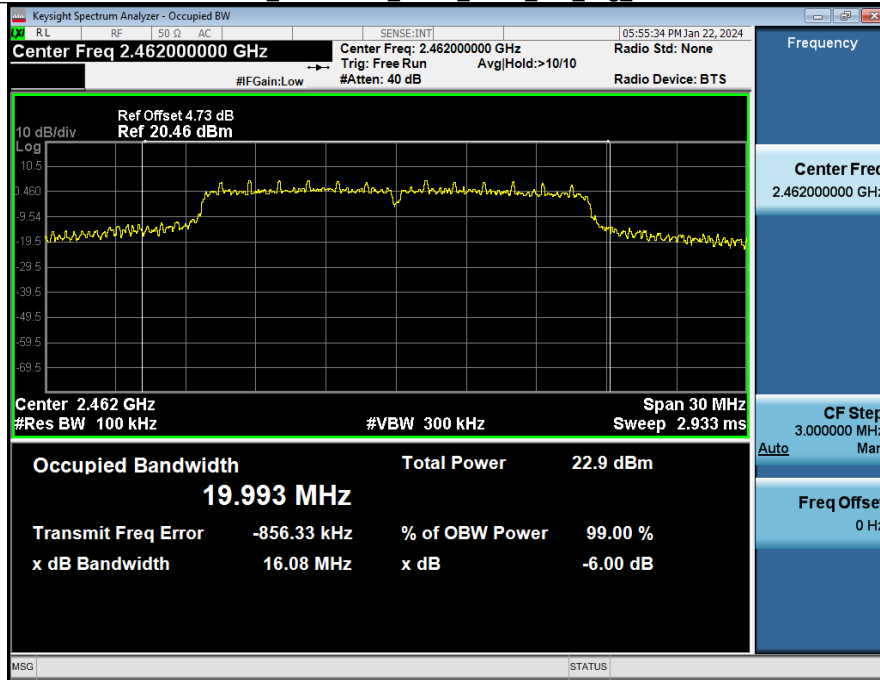
-6dB Bandwidth NVNT_ANT1_802_11g_2412



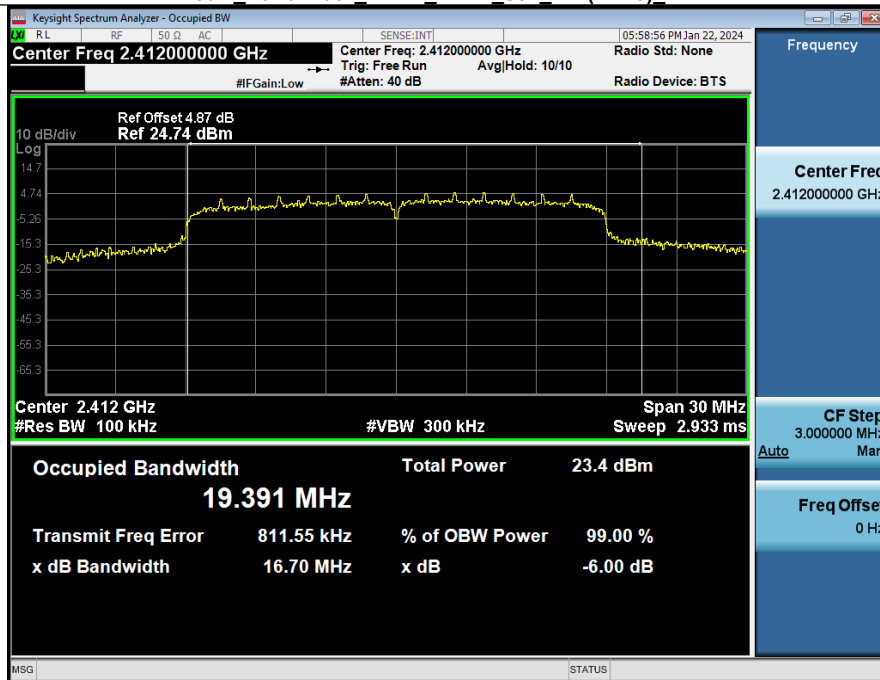
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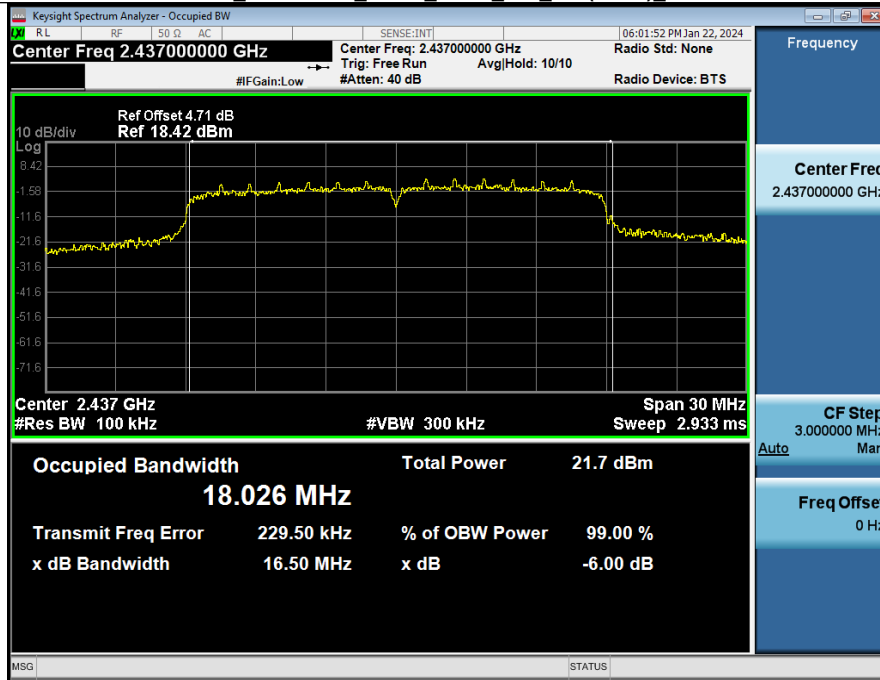
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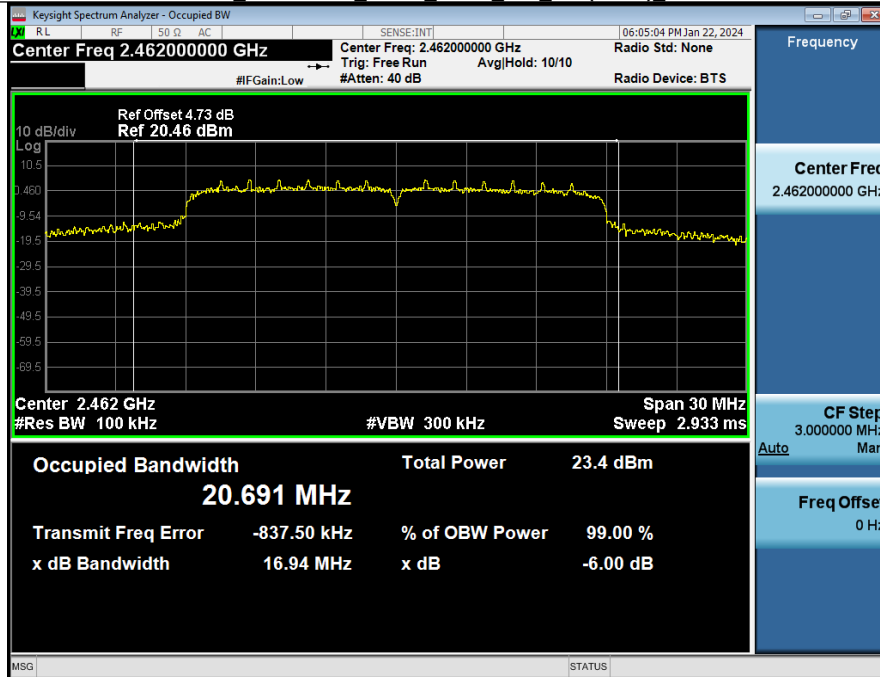
-6dB Bandwidth NVNT_ANT1_802_11n(HT20)_2412



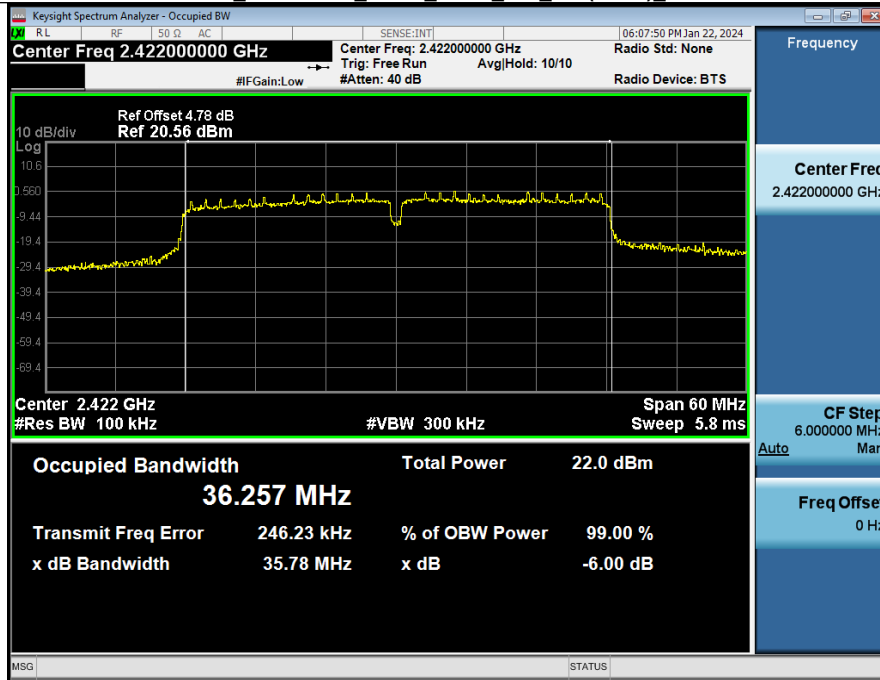
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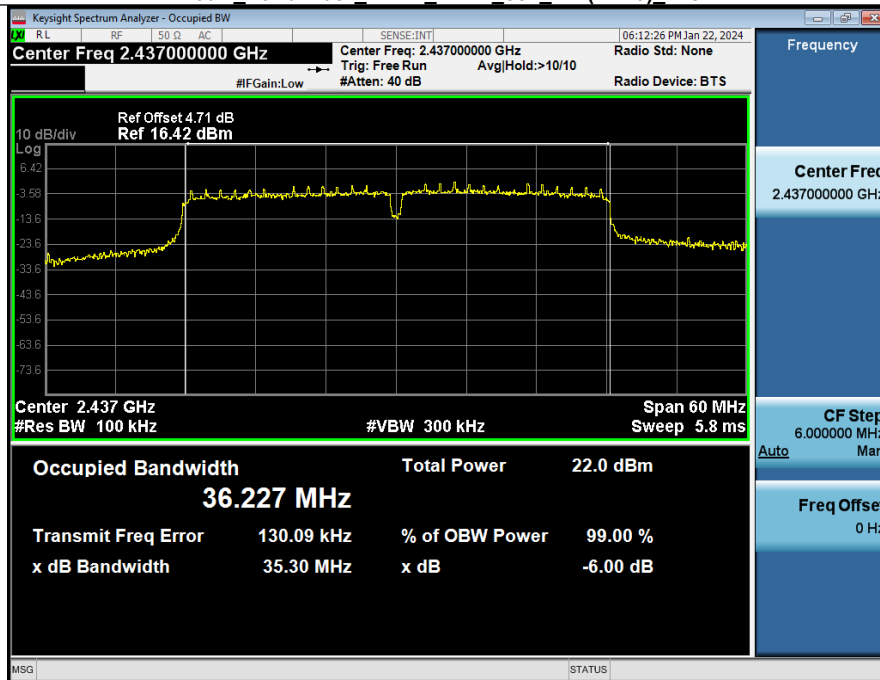
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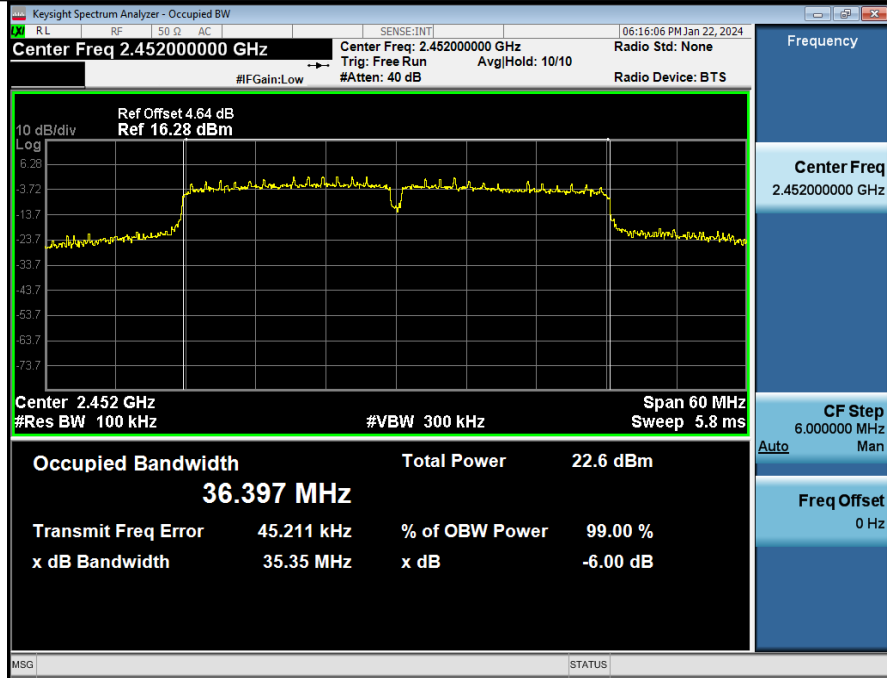
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

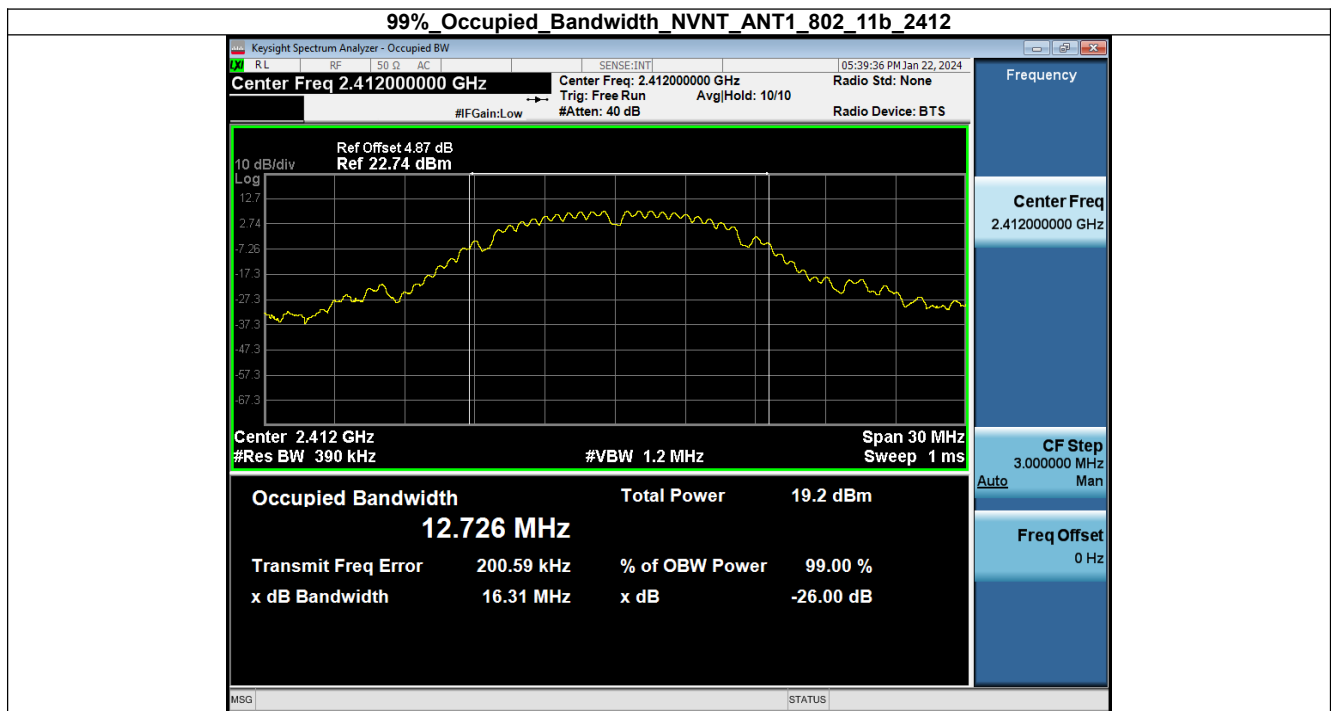


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

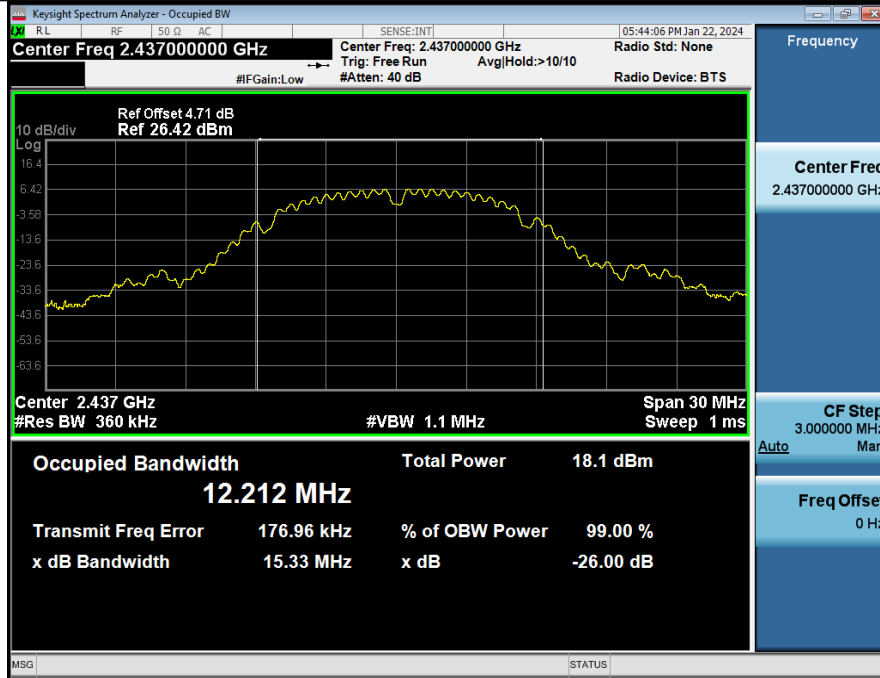


2. 99% Occupied Bandwidth

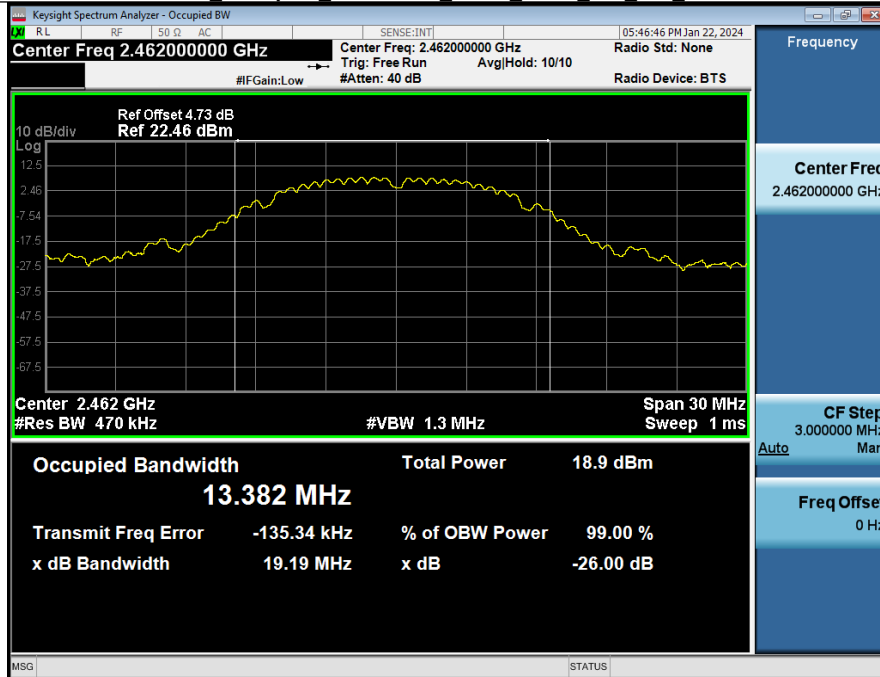
Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11b	2412.00	12.726
NVNT	ANT1	802.11b	2437.00	12.212
NVNT	ANT1	802.11b	2462.00	13.382
NVNT	ANT1	802.11g	2412.00	20.065
NVNT	ANT1	802.11g	2437.00	18.943
NVNT	ANT1	802.11g	2462.00	21.519
NVNT	ANT1	802.11n(HT20)	2412.00	20.374
NVNT	ANT1	802.11n(HT20)	2437.00	18.888
NVNT	ANT1	802.11n(HT20)	2462.00	21.388
NVNT	ANT1	802.11n(HT40)	2422.00	37.360
NVNT	ANT1	802.11n(HT40)	2437.00	36.944
NVNT	ANT1	802.11n(HT40)	2452.00	37.405



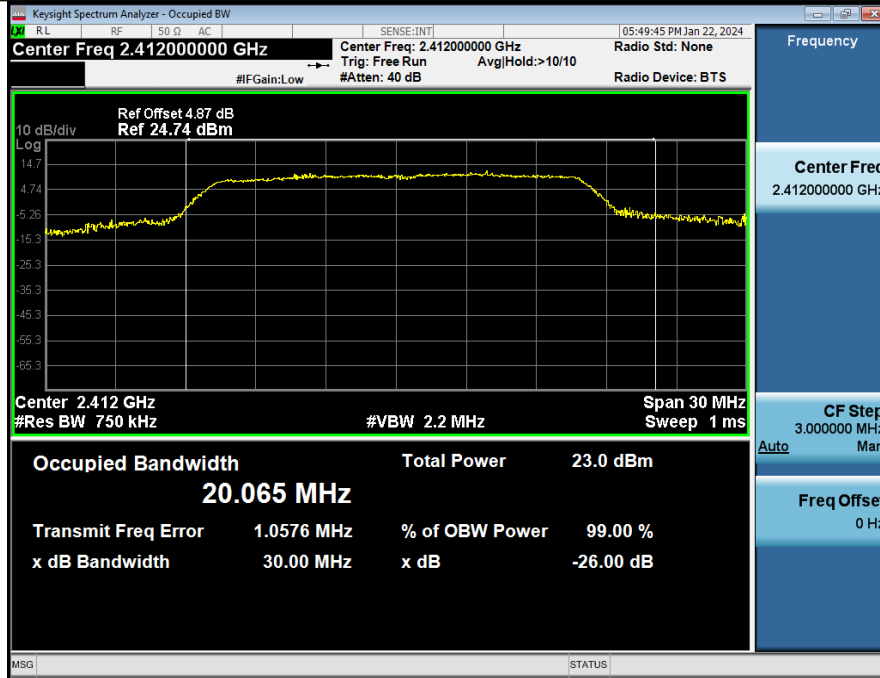
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



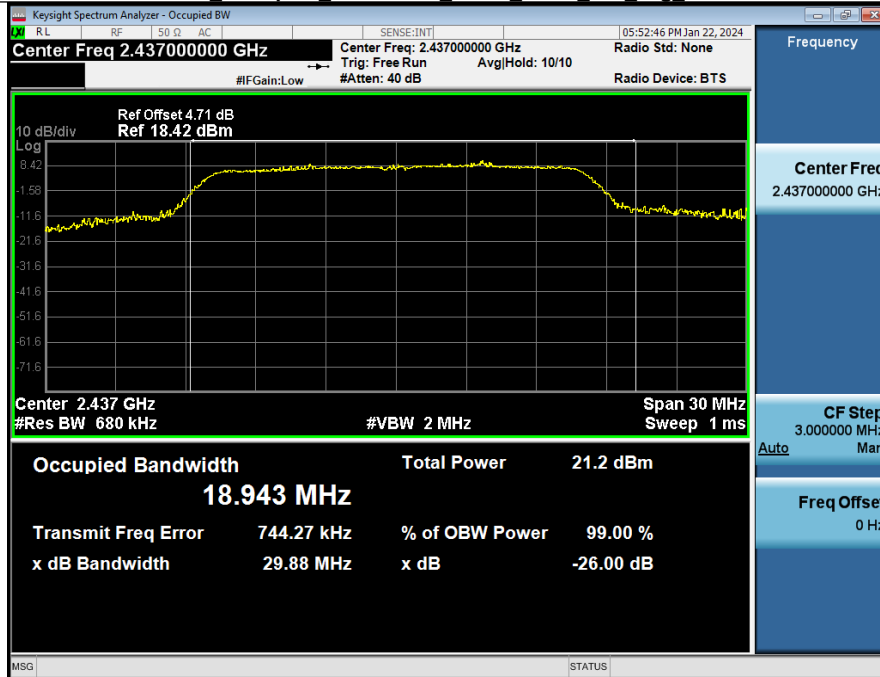
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



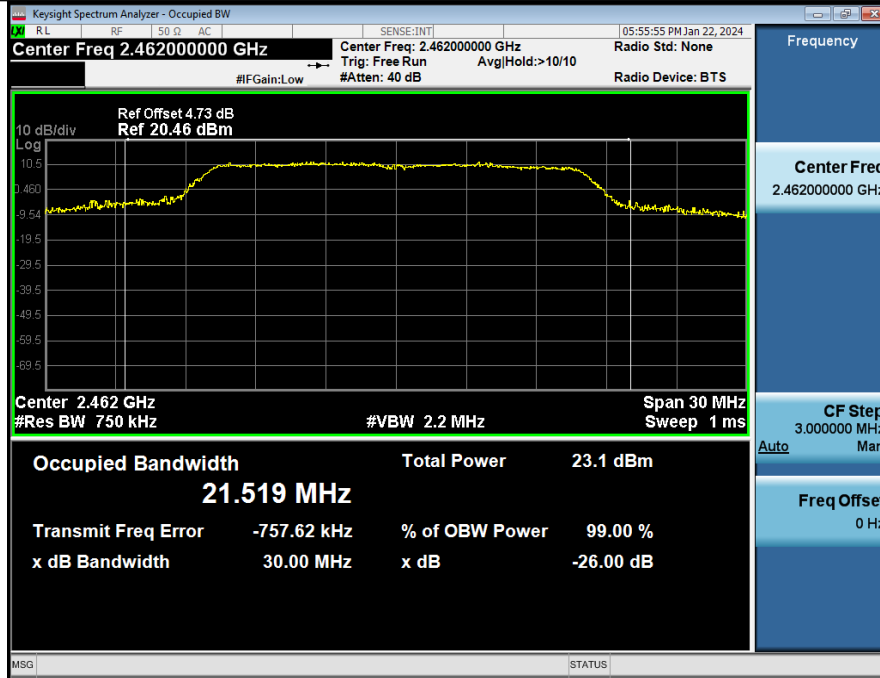
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



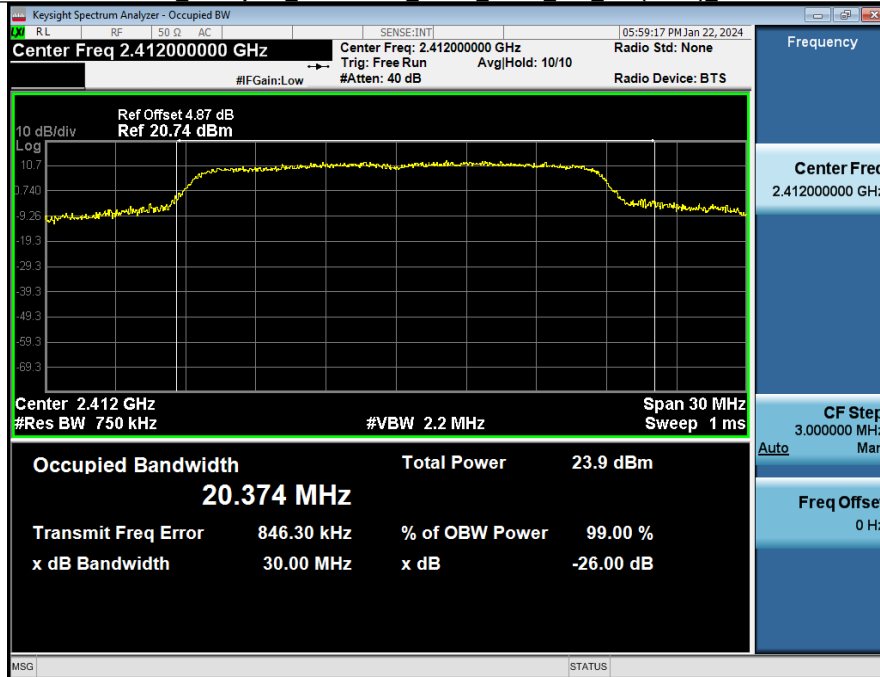
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437



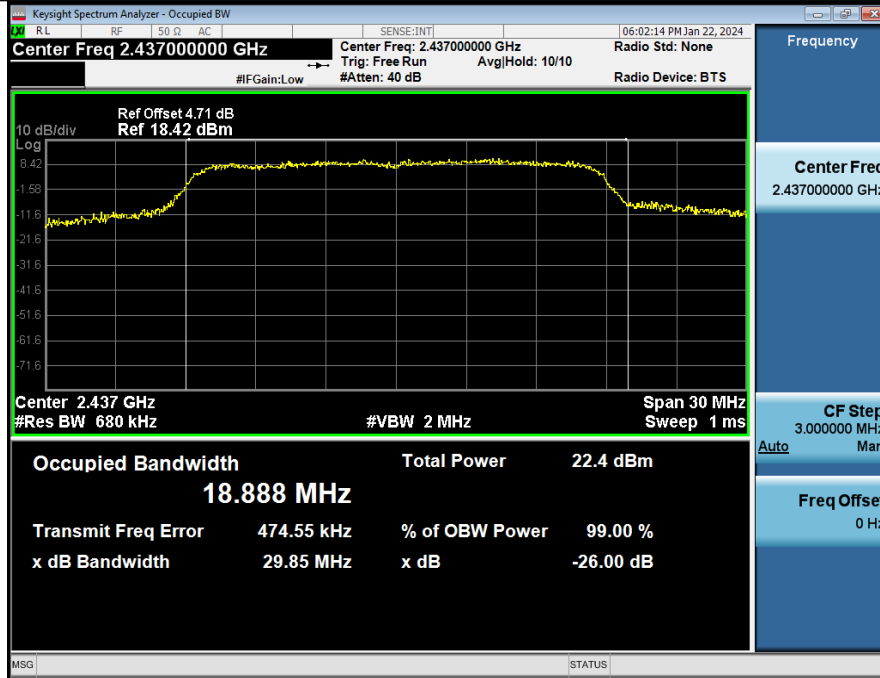
99% Occupied Bandwidth NVNT_ANT1_802_11g_2462



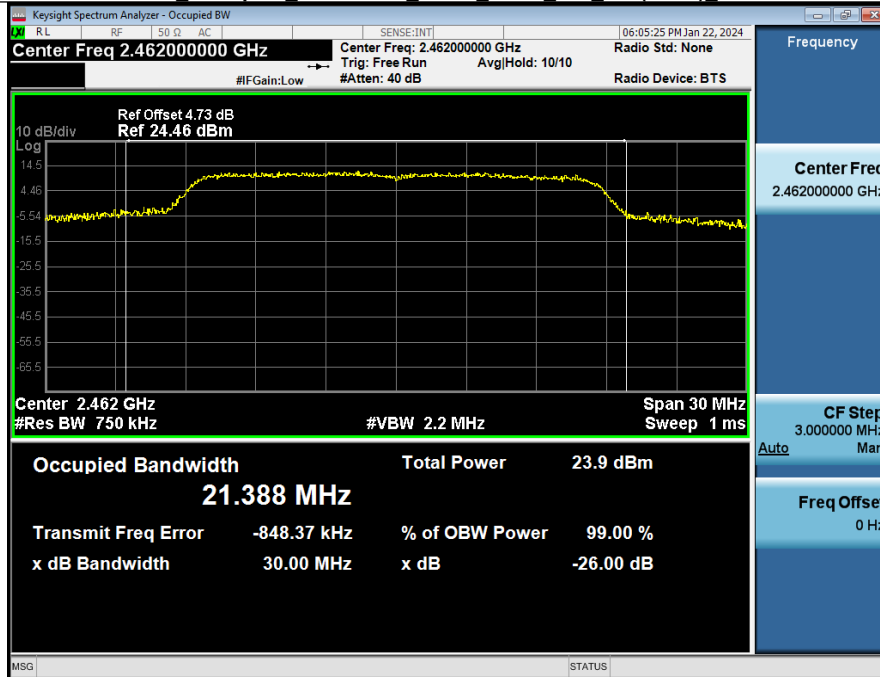
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412



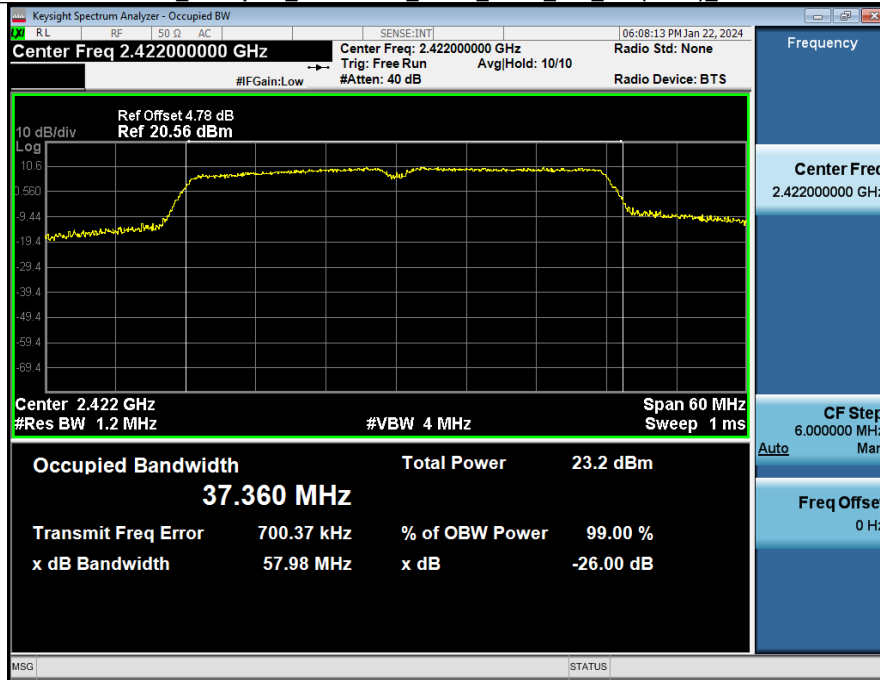
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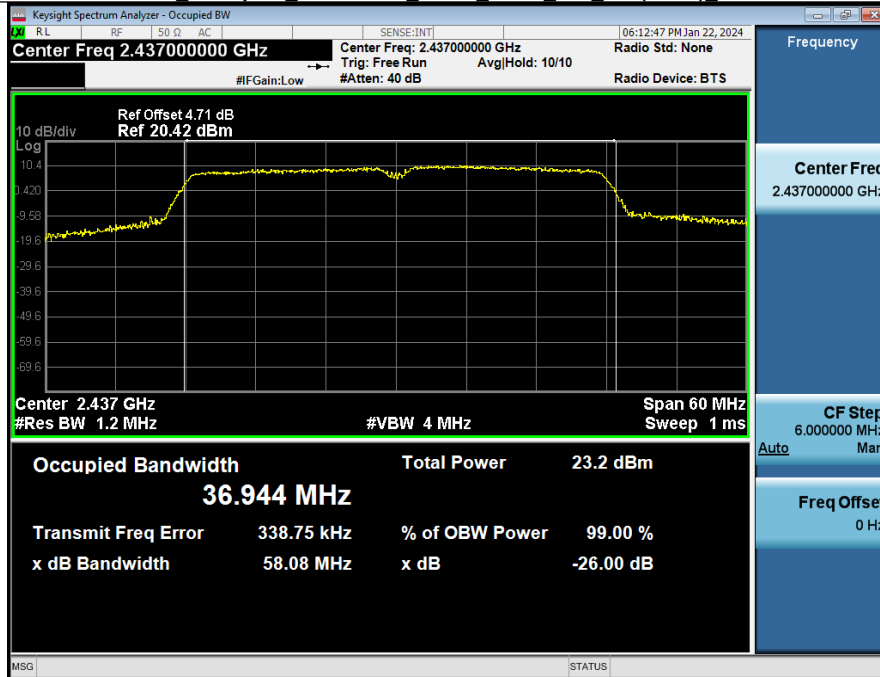
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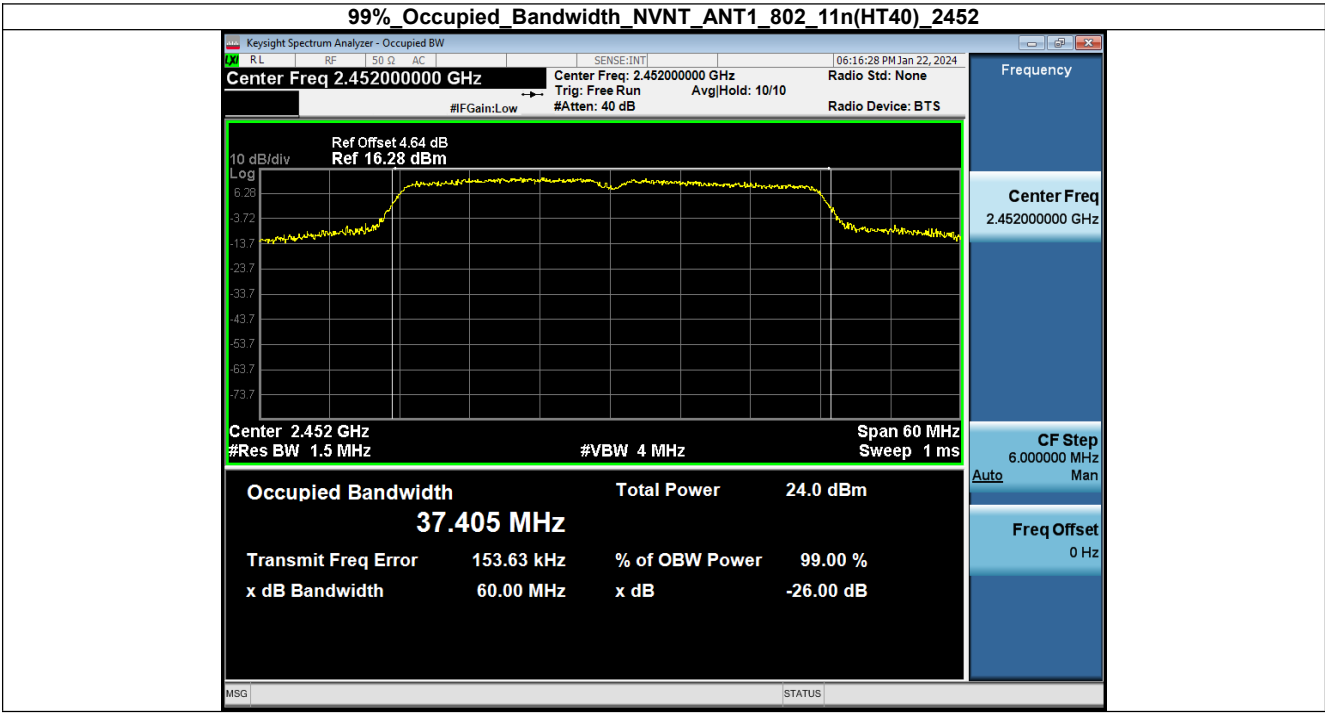


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2422



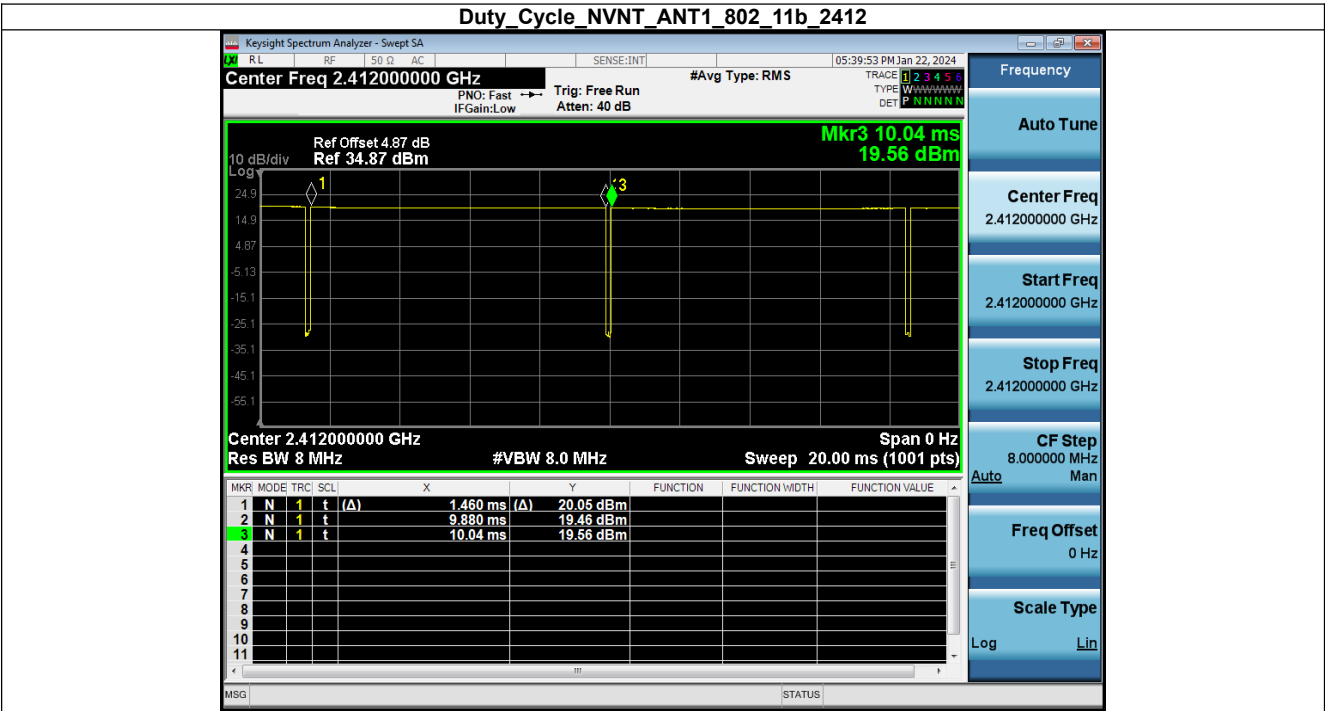
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2437



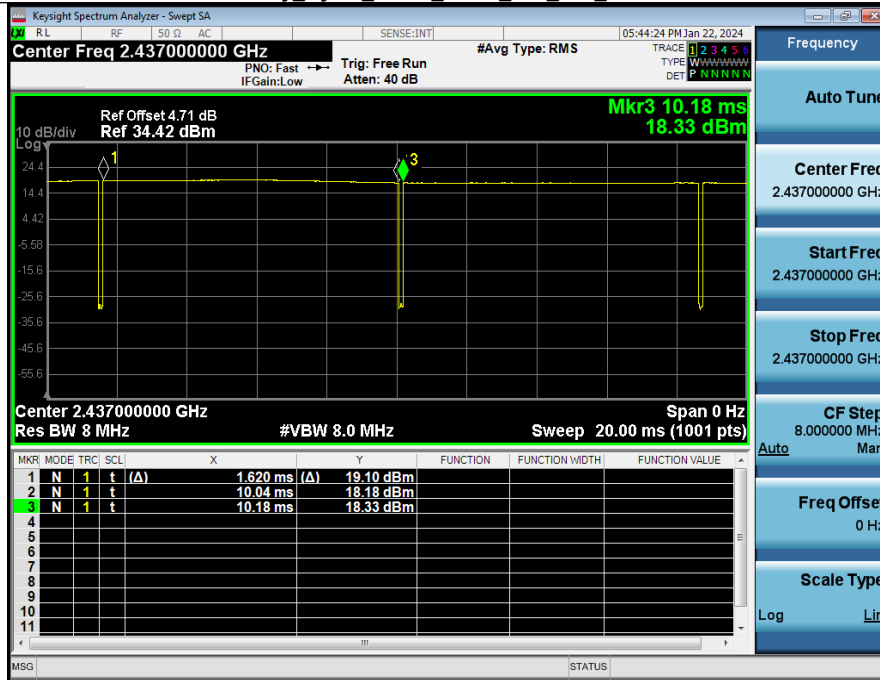


3. Duty Cycle

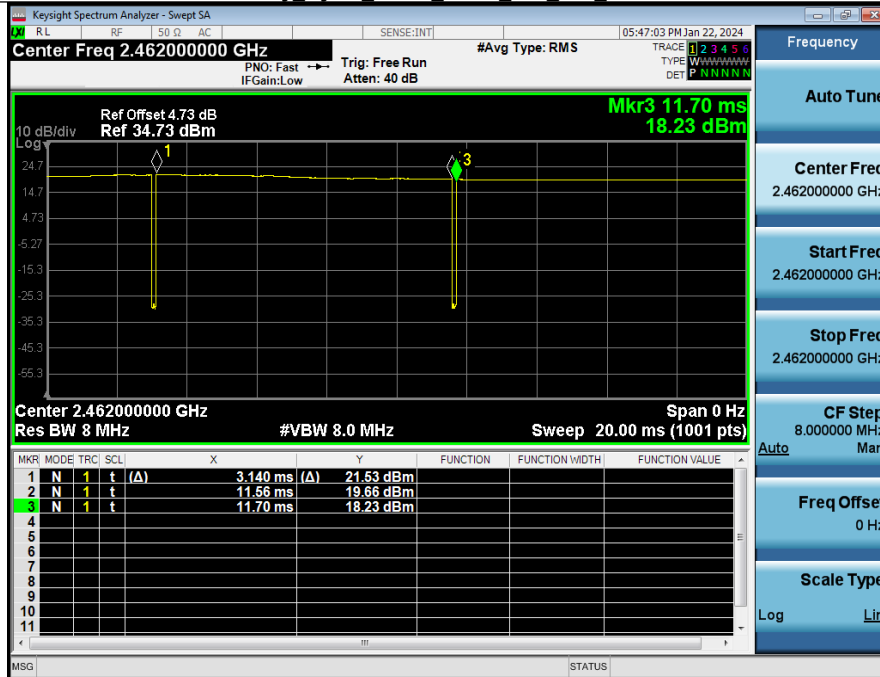
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	98.37	0.00
NVNT	ANT1	802.11b	2437.00	98.60	0.00
NVNT	ANT1	802.11b	2462.00	98.60	0.00
NVNT	ANT1	802.11g	2412.00	92.21	0.35
NVNT	ANT1	802.11g	2437.00	91.03	0.41
NVNT	ANT1	802.11g	2462.00	92.21	0.35
NVNT	ANT1	802.11n(HT20)	2412.00	90.91	0.41
NVNT	ANT1	802.11n(HT20)	2437.00	89.55	0.48
NVNT	ANT1	802.11n(HT20)	2462.00	89.55	0.48
NVNT	ANT1	802.11n(HT40)	2422.00	83.78	0.77
NVNT	ANT1	802.11n(HT40)	2437.00	81.08	0.91
NVNT	ANT1	802.11n(HT40)	2452.00	81.08	0.91



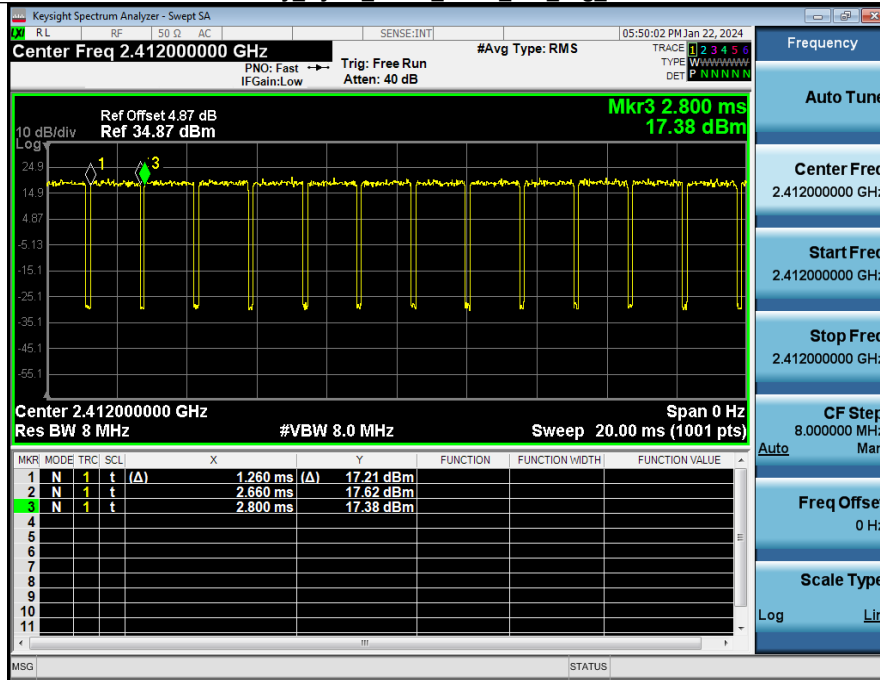
Duty Cycle NVNT ANT1_802_11b_2437



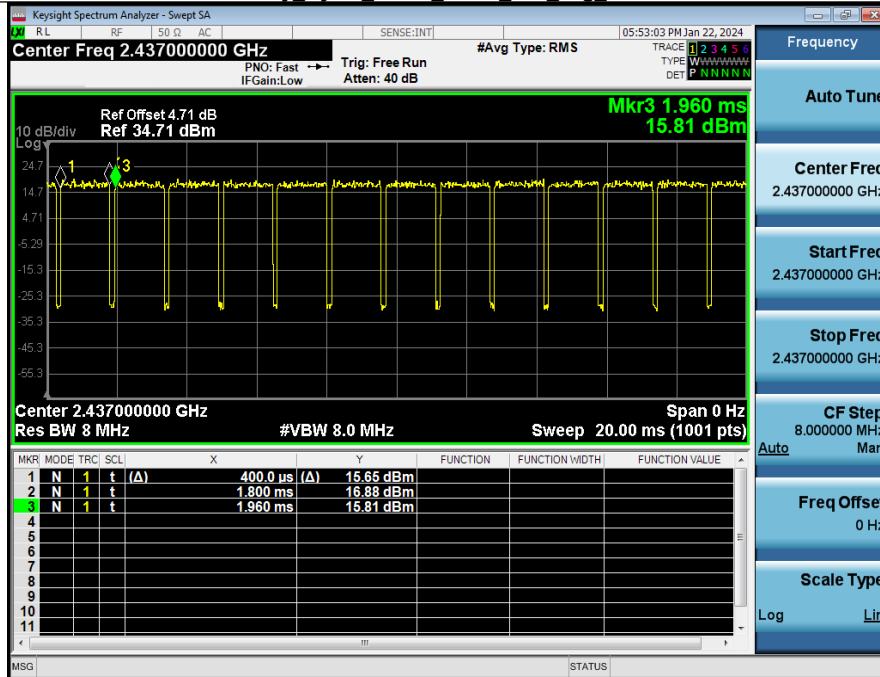
Duty Cycle NVNT ANT1_802_11b_2462



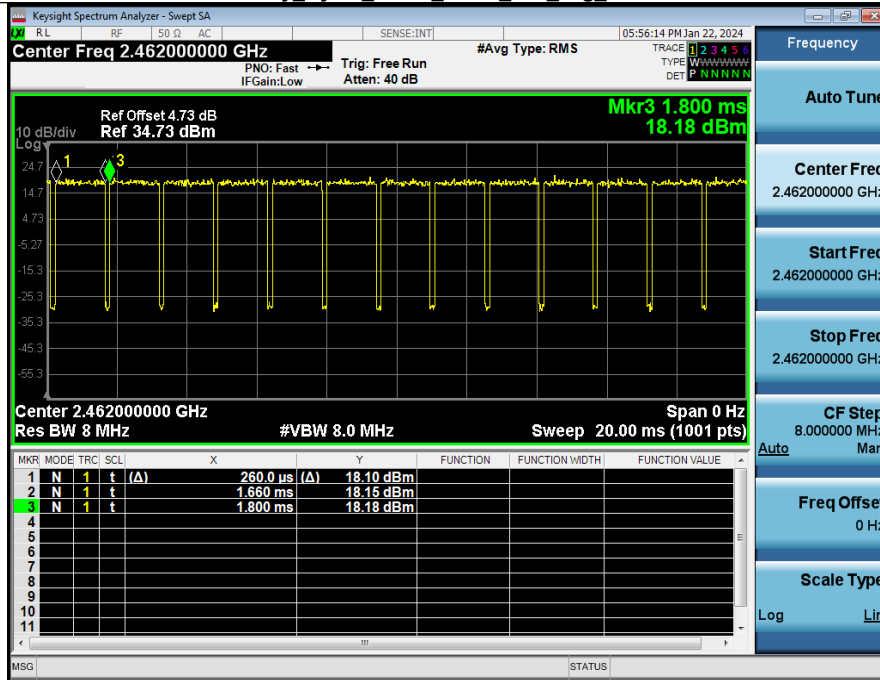
Duty Cycle NVNT ANT1_802_11g_2412



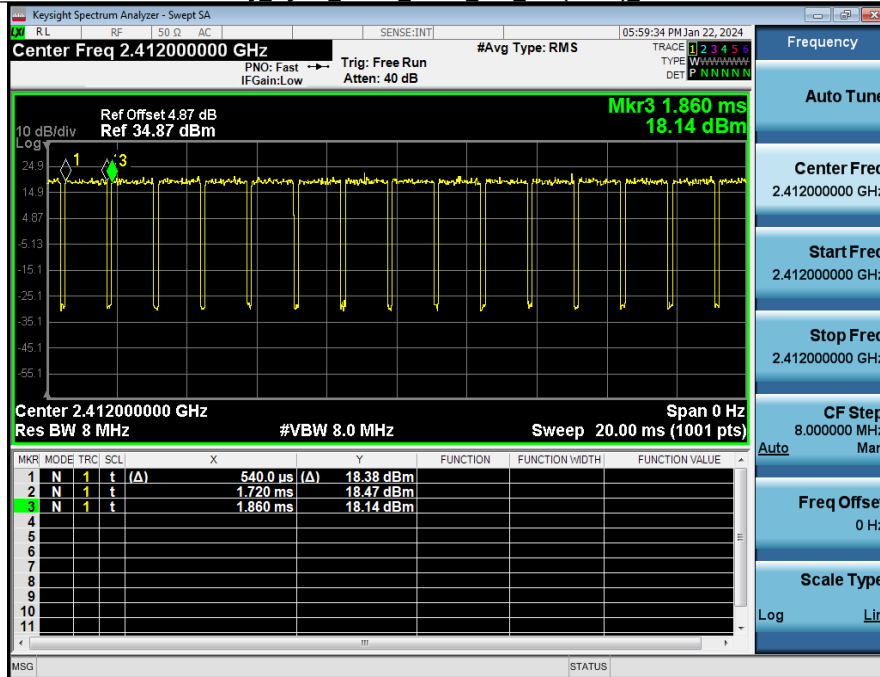
Duty Cycle NVNT ANT1_802_11g_2437



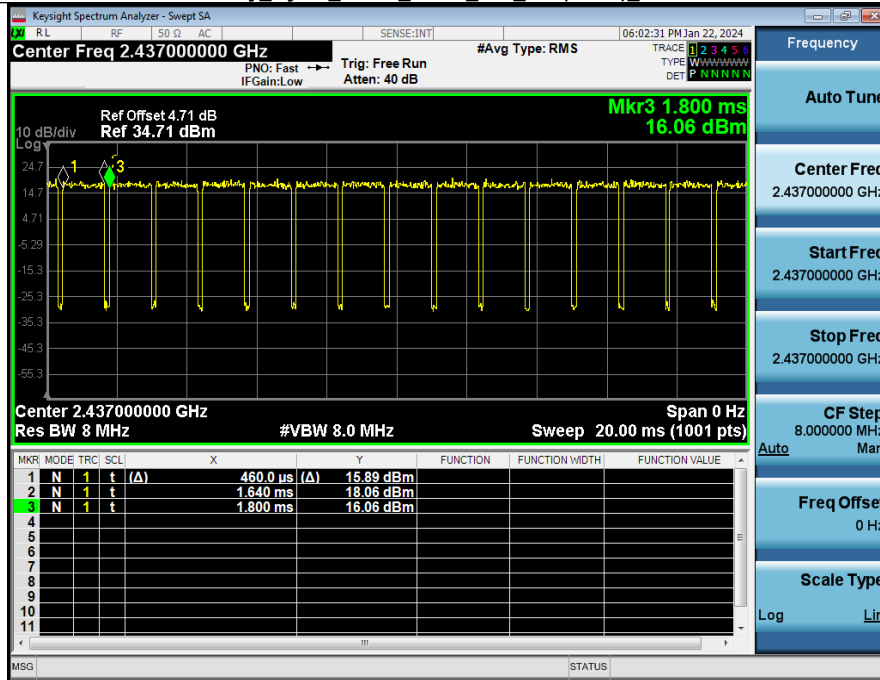
Duty Cycle NVNT_ANT1_802_11g_2462



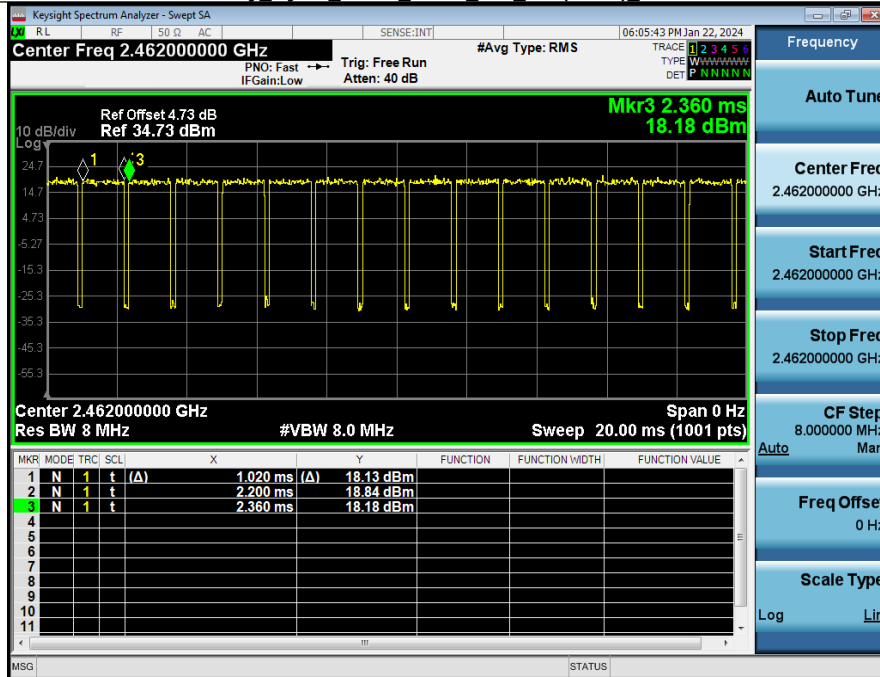
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



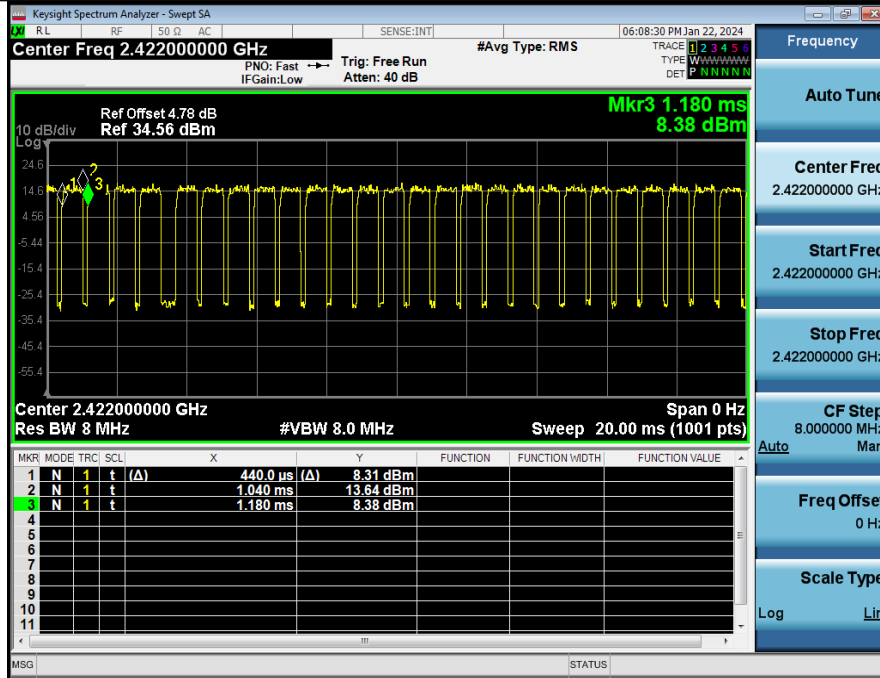
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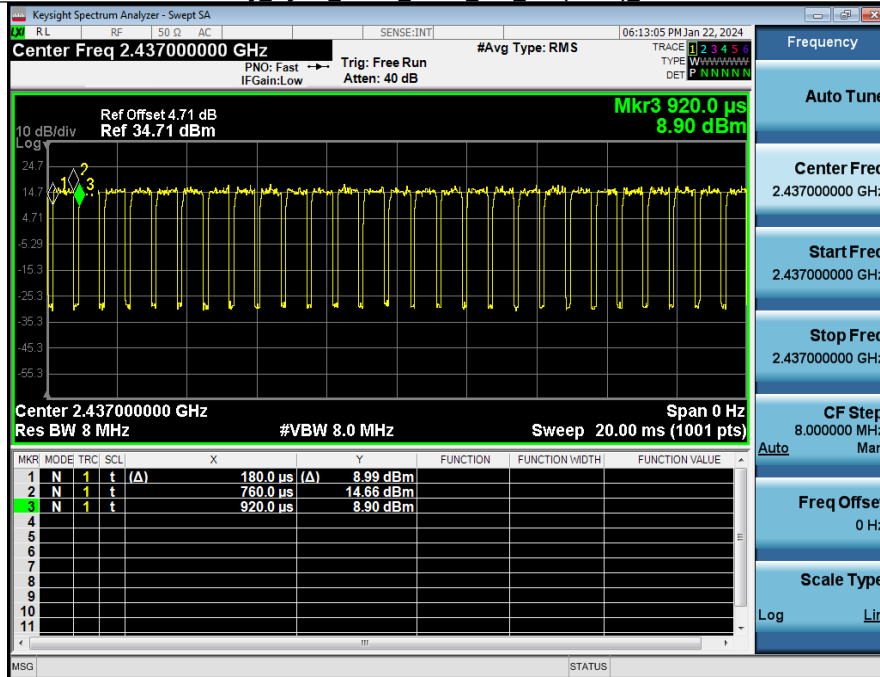
Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



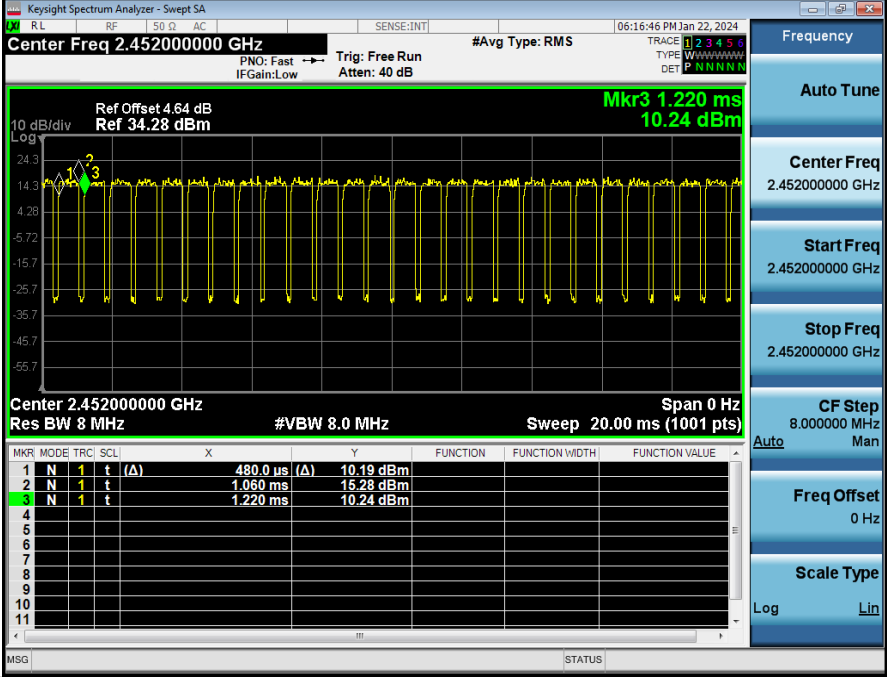
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



Duty Cycle NVNT_ANT1_802_11n(HT40)_2437

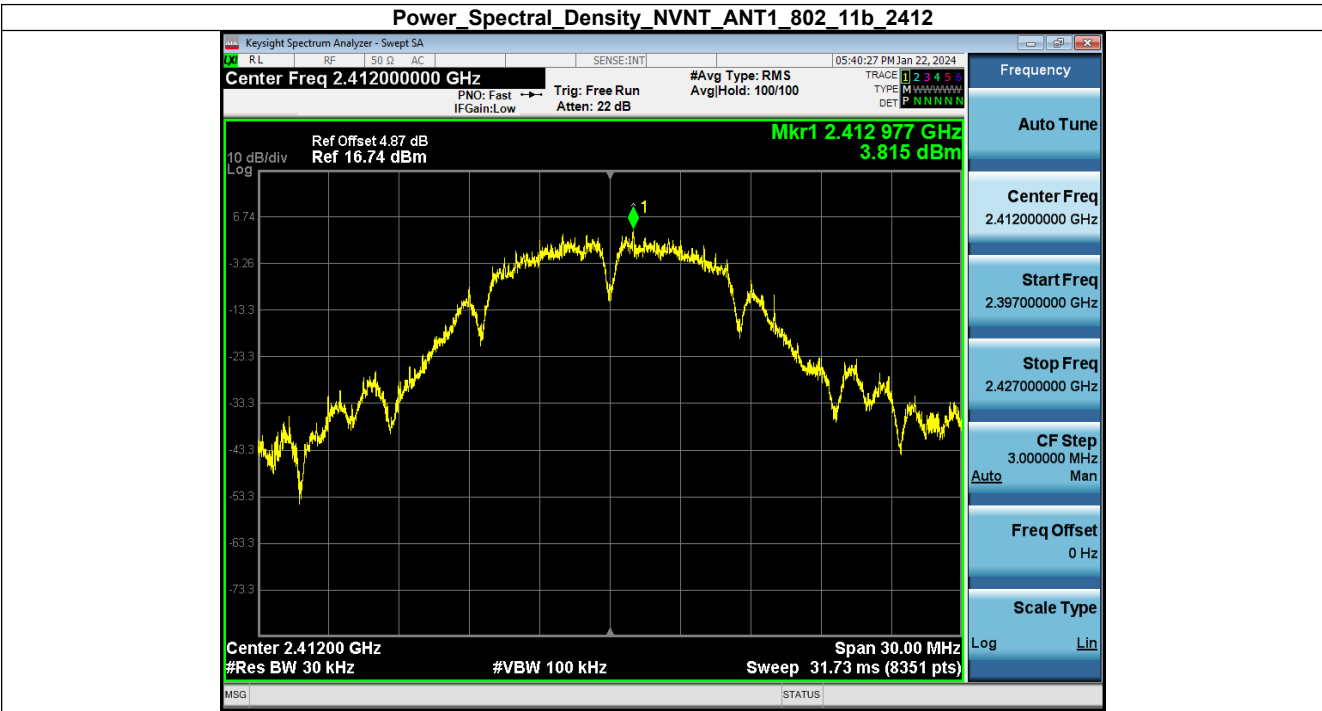


Duty Cycle NVNT_ANT1_802_11n(HT40)_2452



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	3.81	-10.00	-6.19	8	Pass
NVNT	ANT1	802.11b	2437.00	2.77	-10.00	-7.23	8	Pass
NVNT	ANT1	802.11b	2462.00	3.24	-10.00	-6.76	8	Pass
NVNT	ANT1	802.11g	2412.00	0.49	-10.00	-9.51	8	Pass
NVNT	ANT1	802.11g	2437.00	-0.34	-10.00	-10.34	8	Pass
NVNT	ANT1	802.11g	2462.00	0.07	-10.00	-9.93	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	0.57	-10.00	-9.43	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.15	-10.00	-11.15	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	0.02	-10.00	-9.98	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-4.56	-10.00	-14.56	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-4.40	-10.00	-14.40	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-3.68	-10.00	-13.68	8	Pass



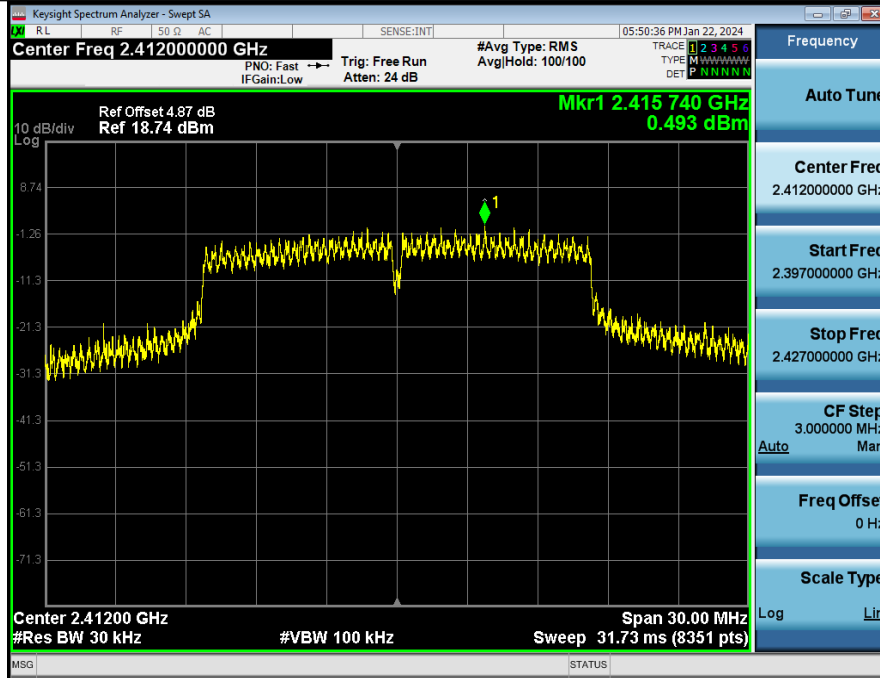
Power Spectral Density NVNT_ANT1_802_11b_2437



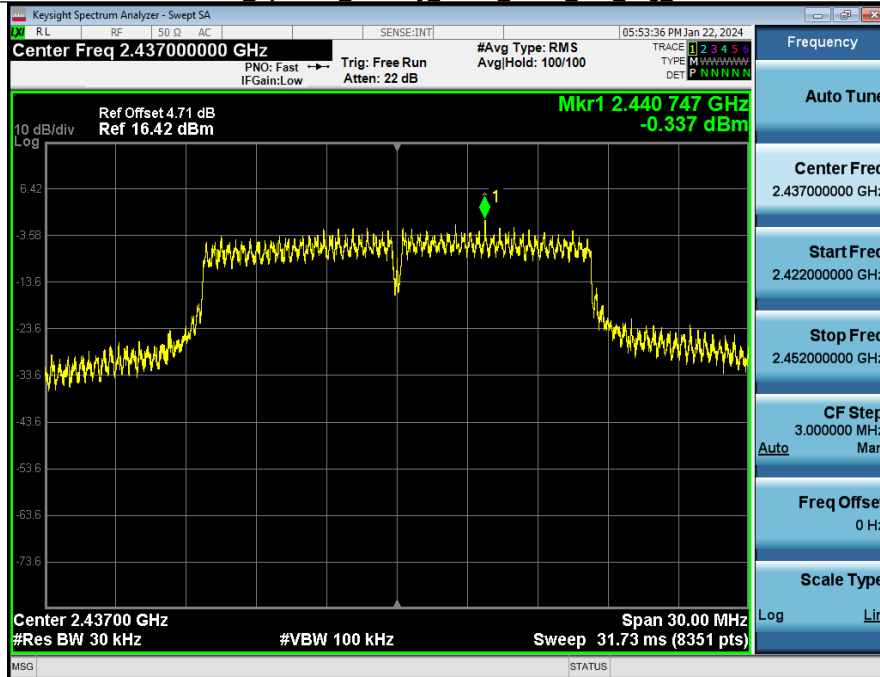
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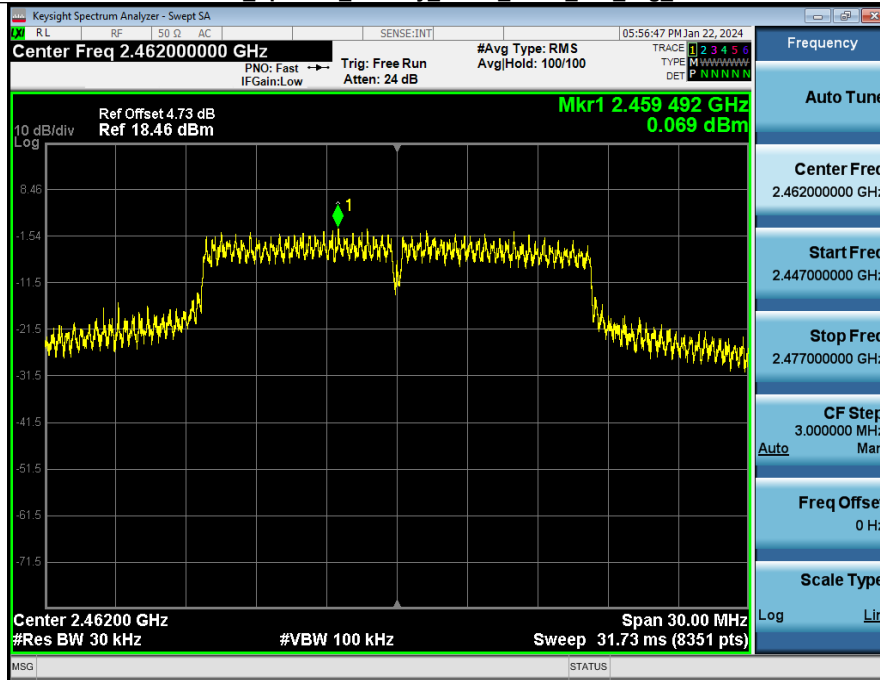
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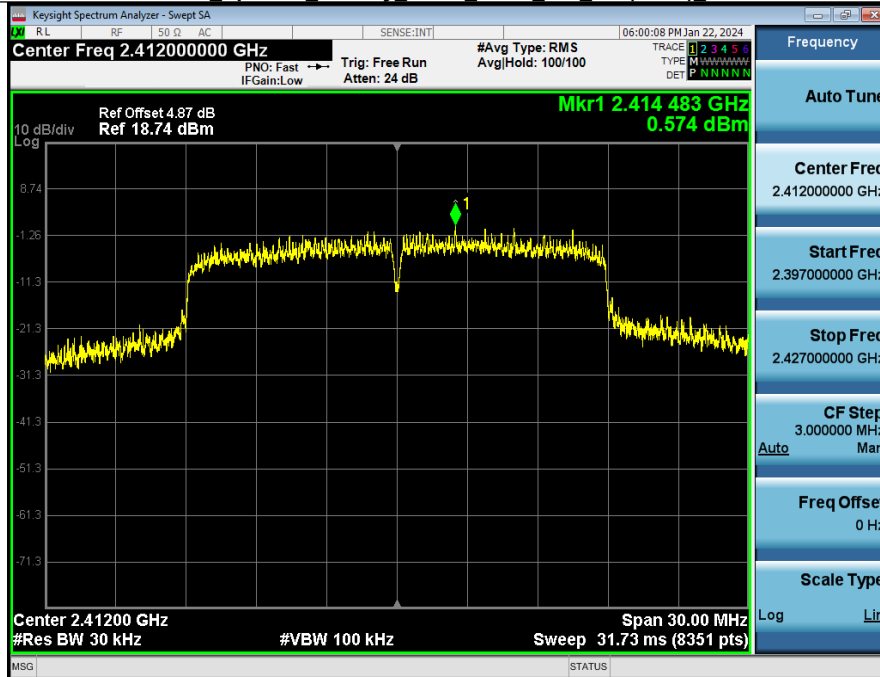
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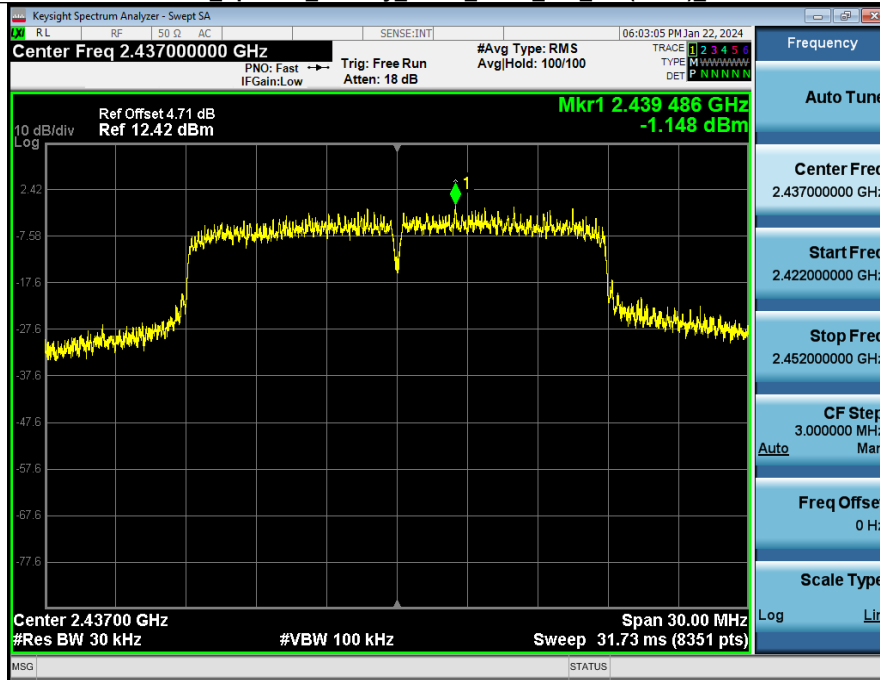
Power Spectral Density NVNT_ANT1_802_11g_2462



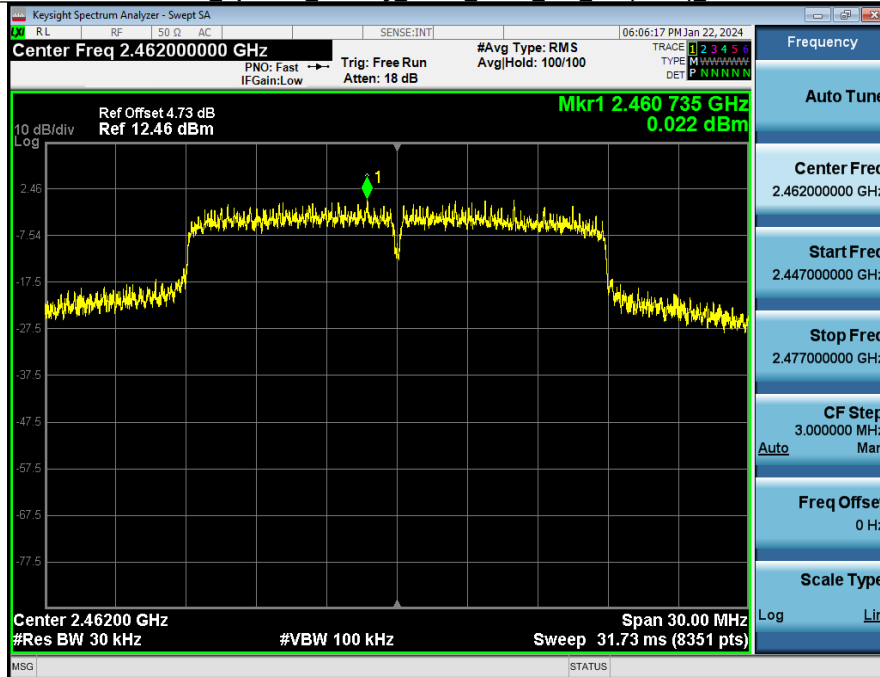
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2412



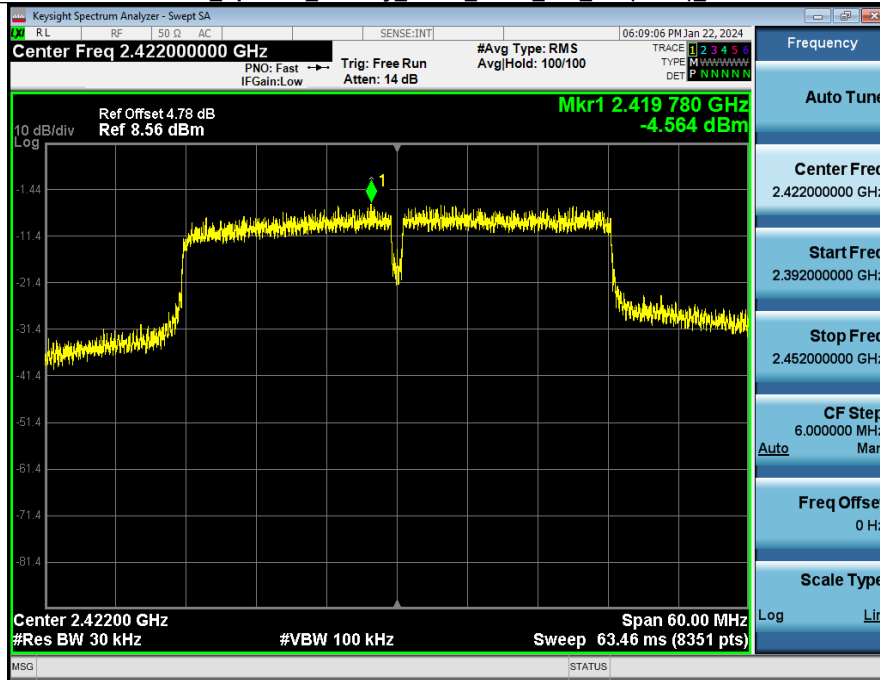
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2437



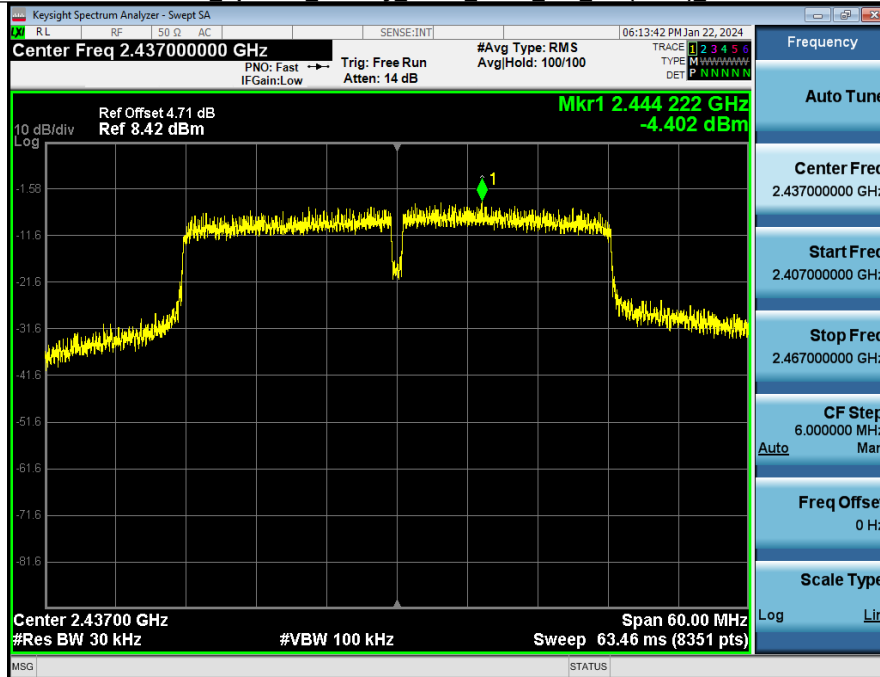
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2462



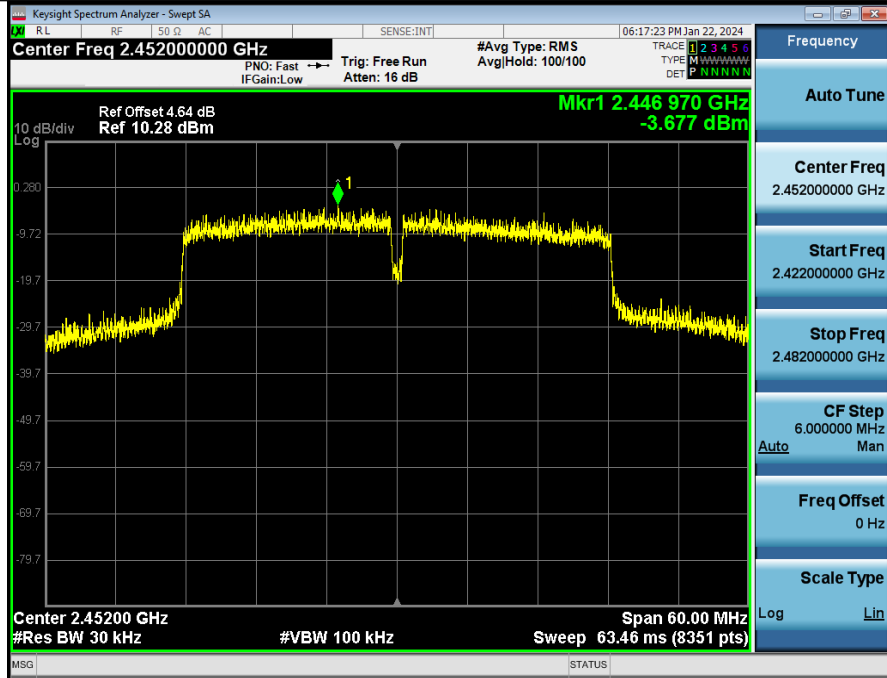
Power Spectral Density NVNT_ANT1_802_11n(HT40)_2422



Power Spectral Density NVNT_ANT1_802_11n(HT40)_2437

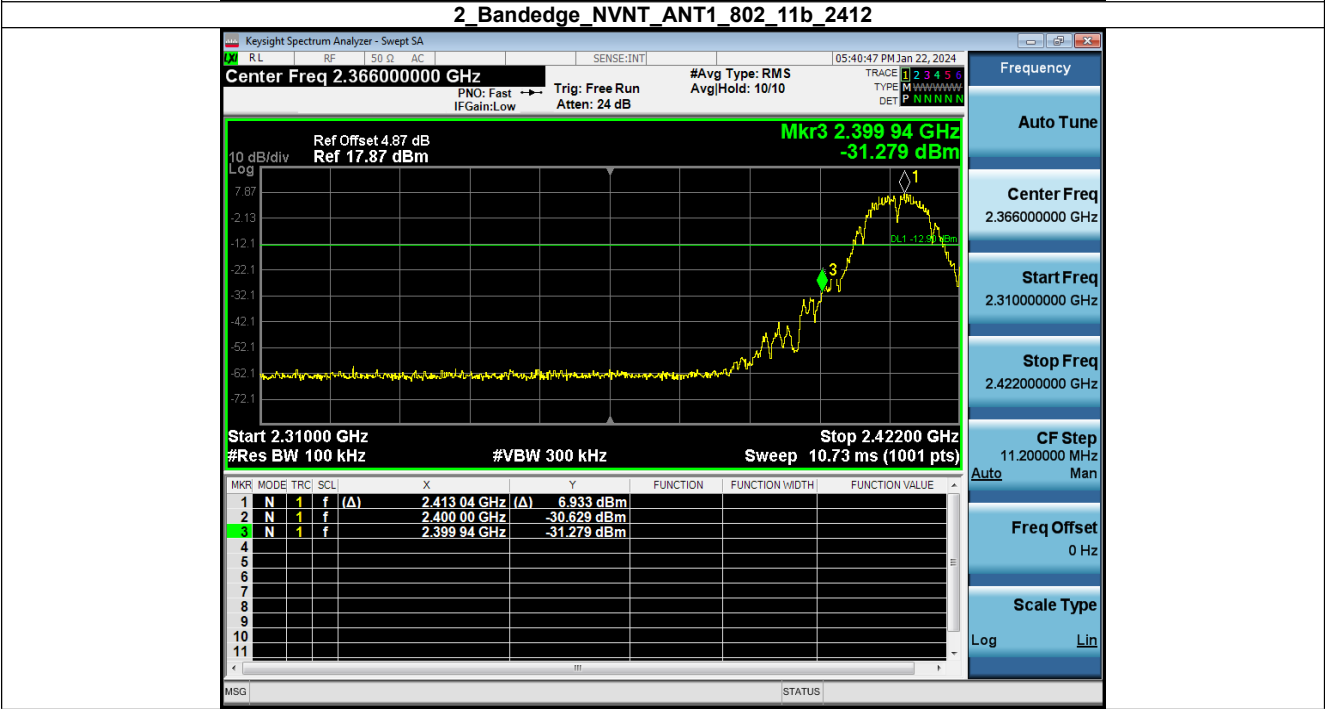


Power Spectral Density NVNT_ANT1_802_11n(HT40)_2452



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	-31.279	-12.900	Pass
NVNT	ANT1	802.11b	2462.00	2485.984	-49.721	-12.982	Pass
NVNT	ANT1	802.11g	2412.00	2399.152	-17.857	-15.029	Pass
NVNT	ANT1	802.11g	2462.00	2483.824	-30.792	-14.507	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	-17.933	-14.812	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.824	-26.050	-14.536	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-27.378	-19.631	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.564	-25.034	-18.656	Pass



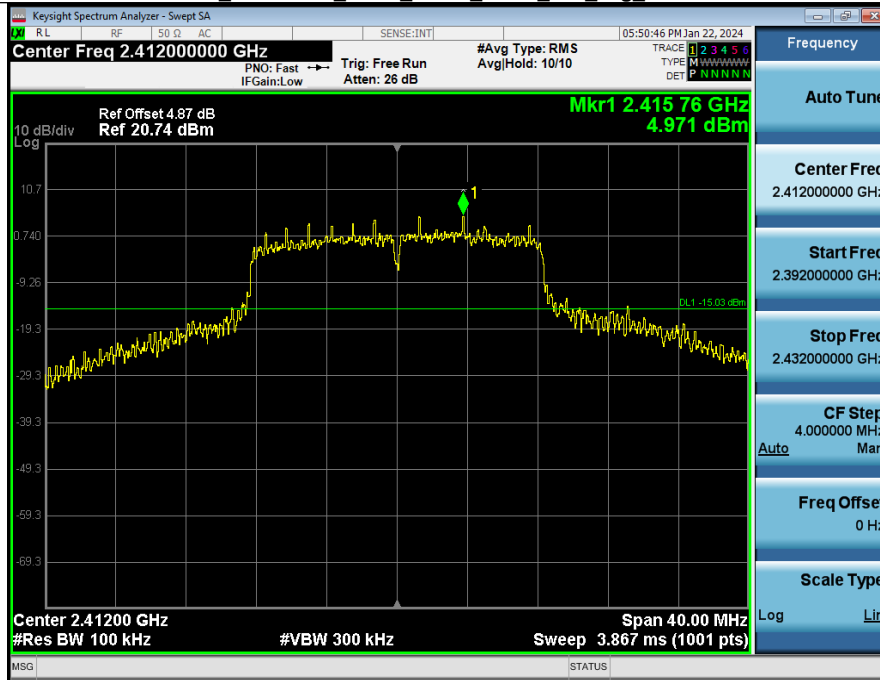
1 Reference Level_NVNT_ANT1_802_11b_2462



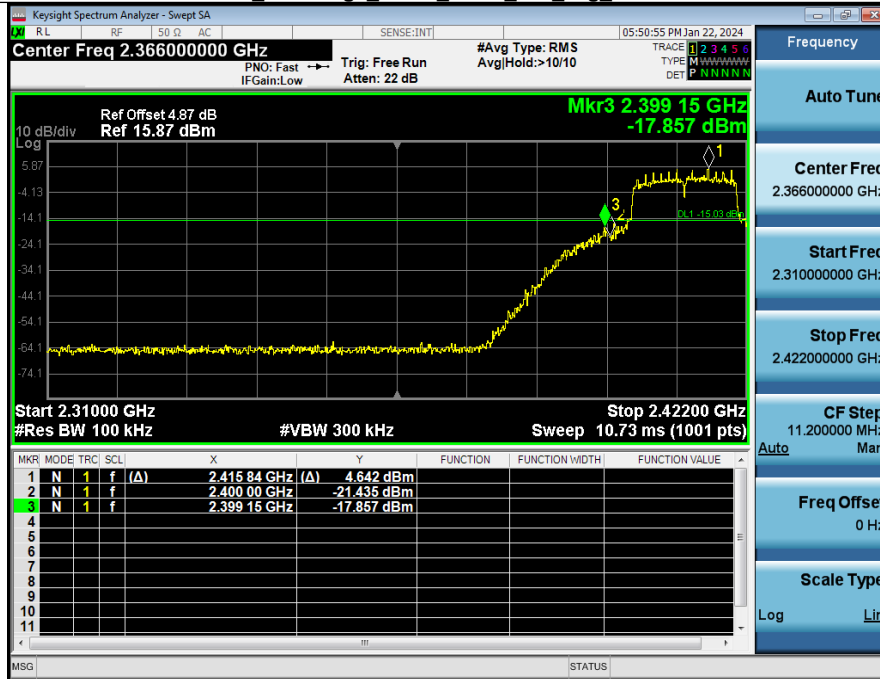
2 Bandedge_NVNT_ANT1_802_11b_2462



1 Reference Level_NVNT_ANT1_802_11g_2412



2 Bandedge_NVNT_ANT1_802_11g_2412



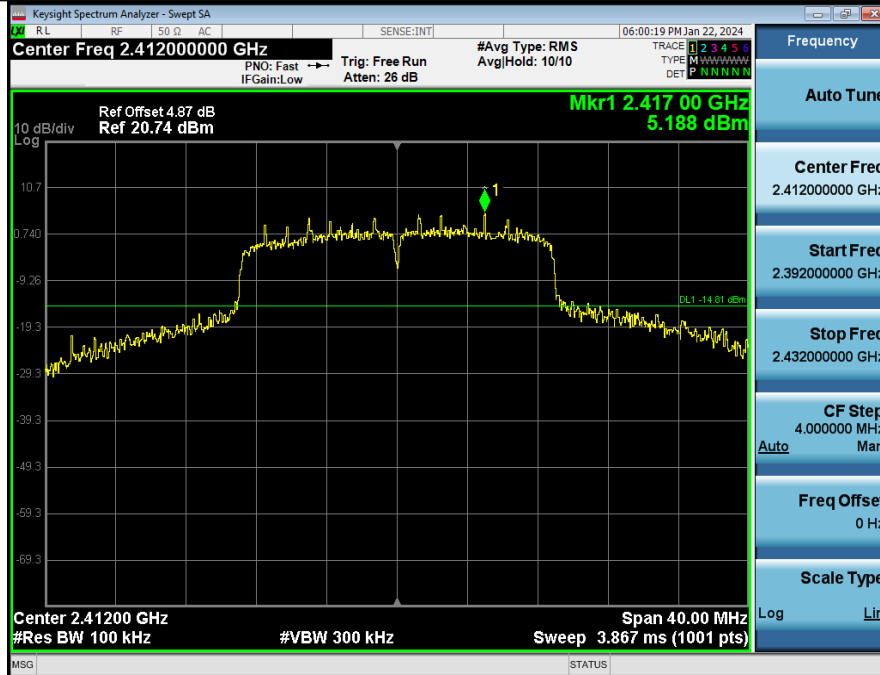
1 Reference Level_NVNT_ANT1_802_11g_2462



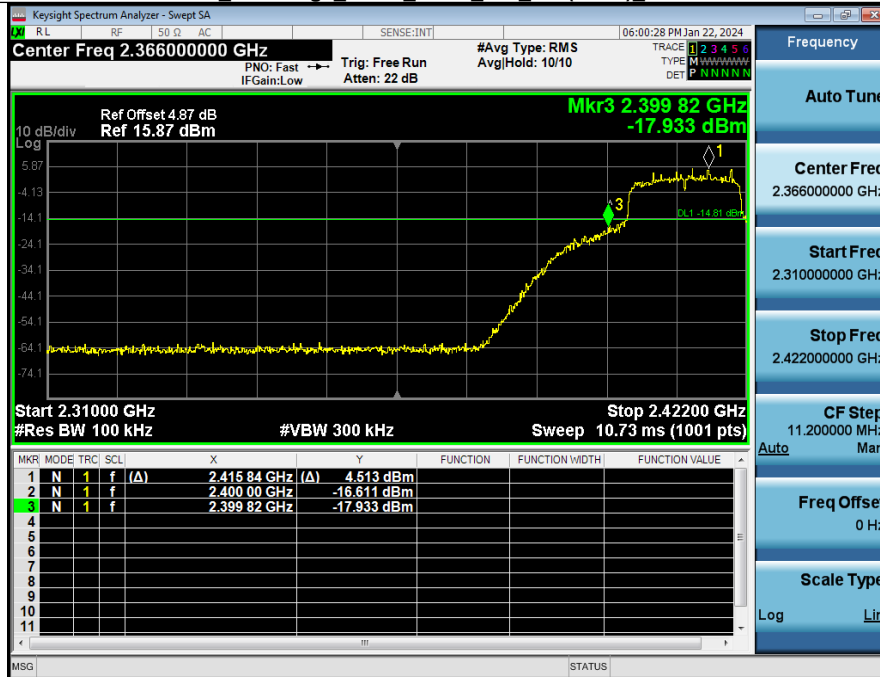
2 Bandedge_NVNT_ANT1_802_11g_2462



1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



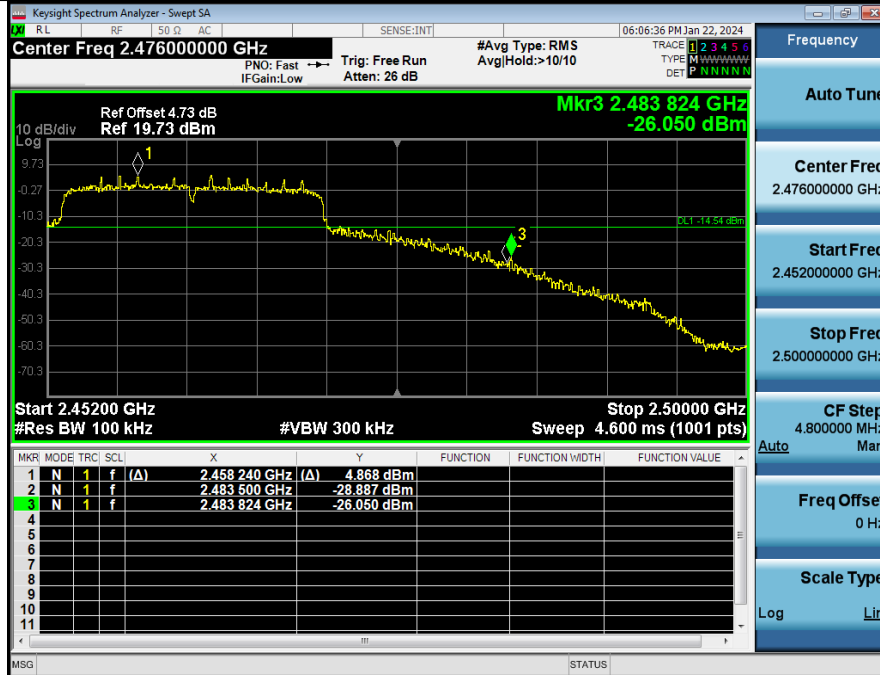
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



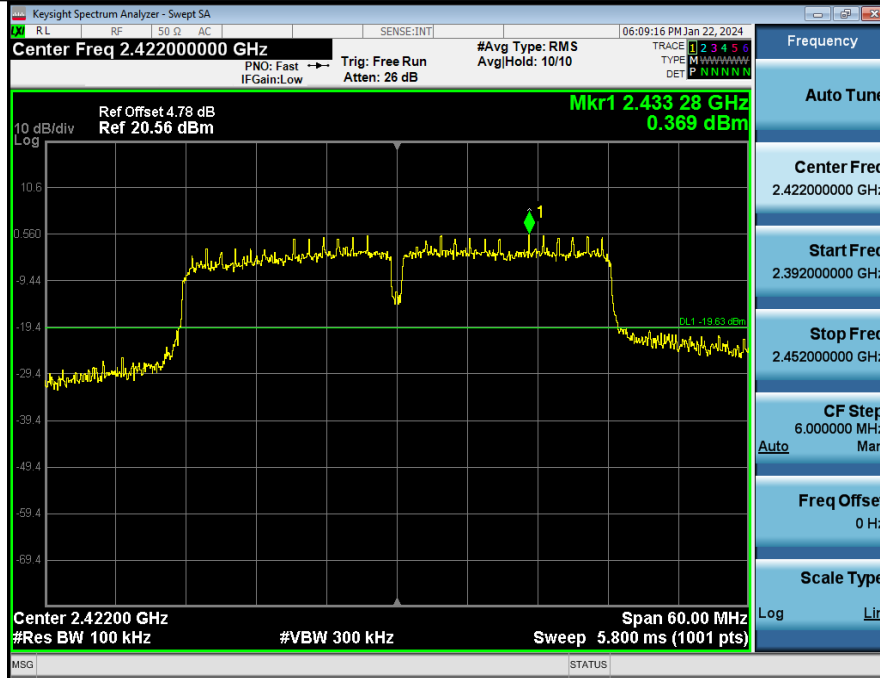
1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



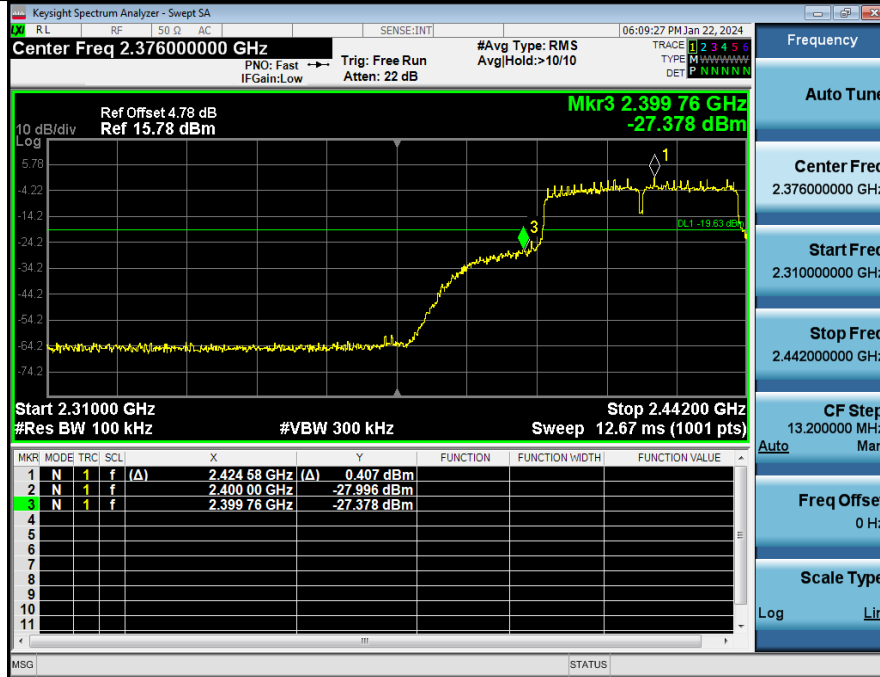
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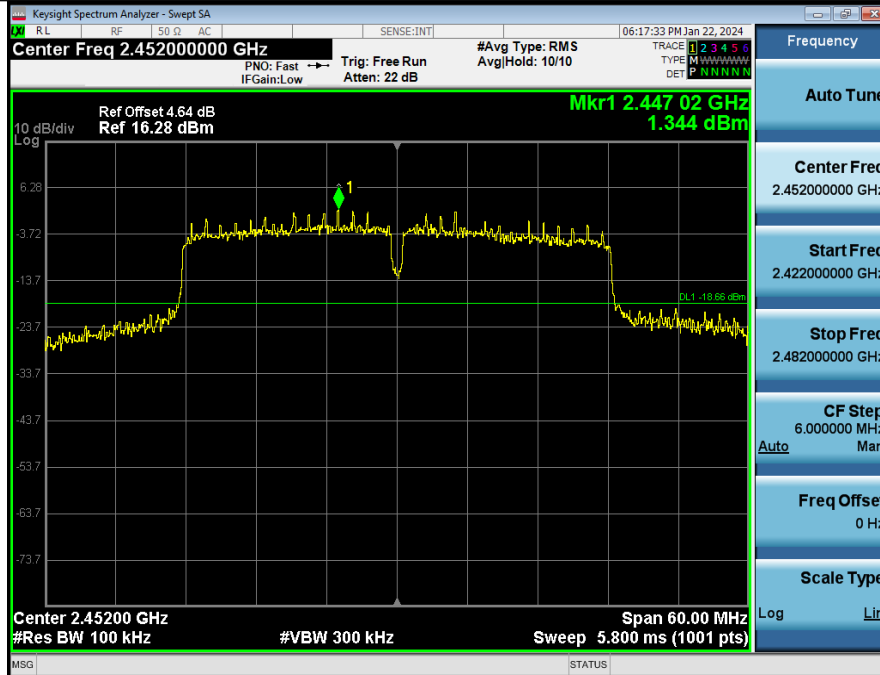
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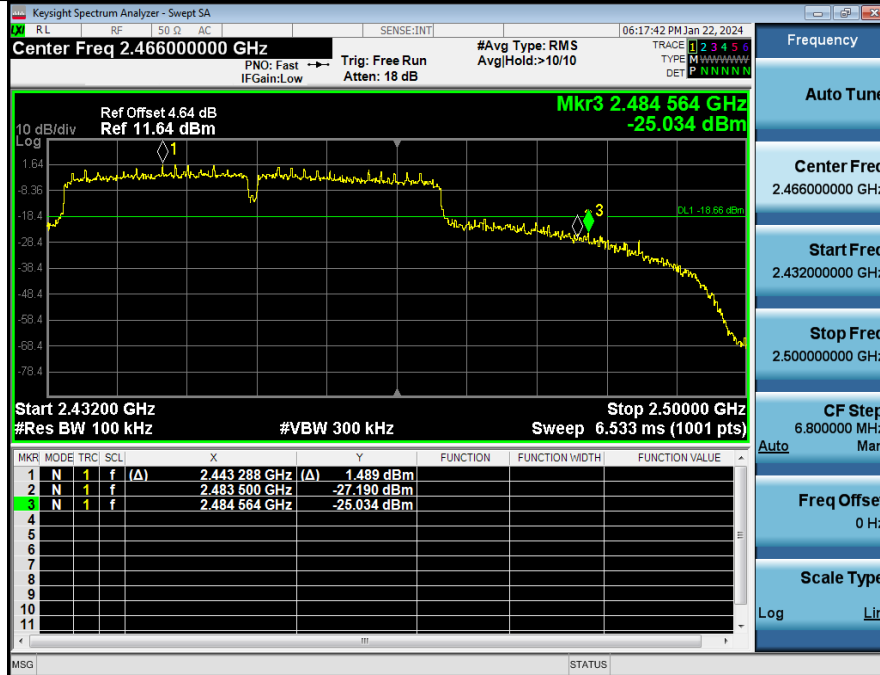
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2422



1 Reference Level_NVNT_ANT1_802_11n(HT40)_2452



2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



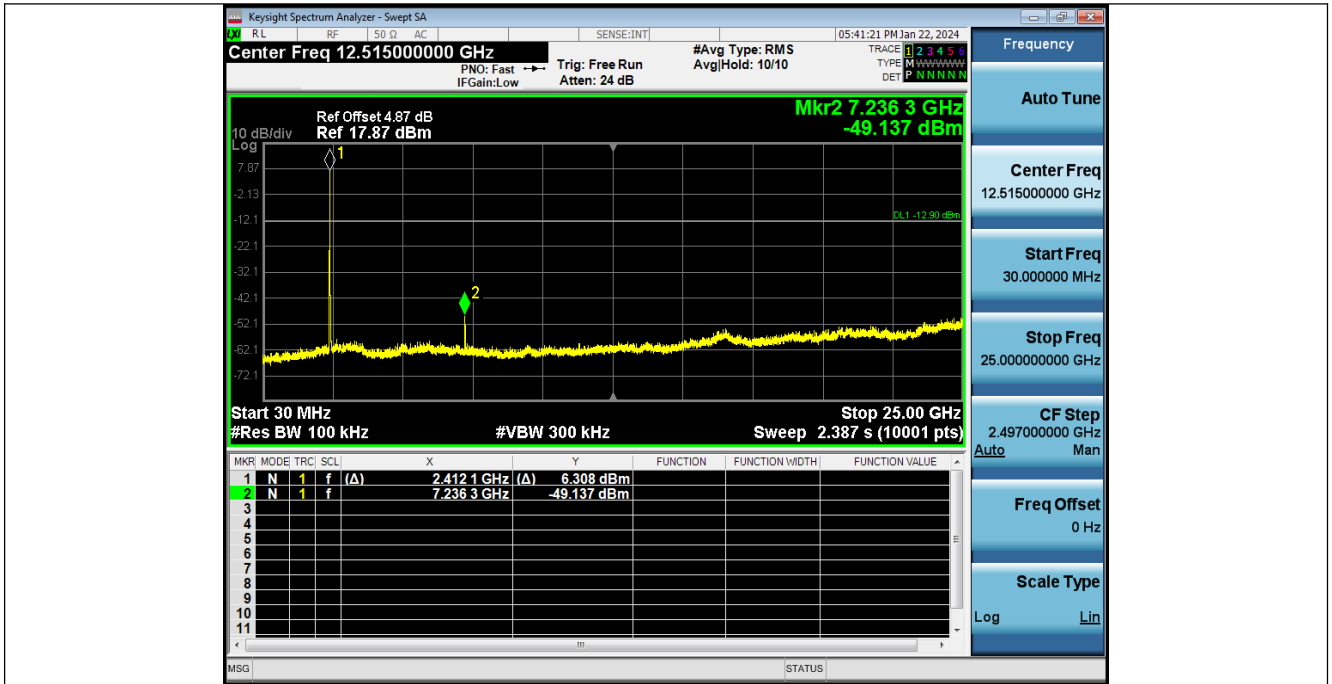
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	7236.342	-49.137	-12.900	Pass
NVNT	ANT1	802.11b	2437.00	24985.018	-45.960	-13.556	Pass
NVNT	ANT1	802.11b	2462.00	24985.018	-49.825	-12.982	Pass
NVNT	ANT1	802.11g	2412.00	25000.000	-52.367	-15.029	Pass
NVNT	ANT1	802.11g	2437.00	24982.521	-54.144	-16.574	Pass
NVNT	ANT1	802.11g	2462.00	24972.533	-48.022	-14.507	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24937.575	-52.334	-14.812	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	1752.930	-38.942	-17.366	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24967.539	-47.083	-14.536	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24980.024	-52.094	-19.631	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24987.515	-52.306	-19.401	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24970.036	-55.567	-18.656	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



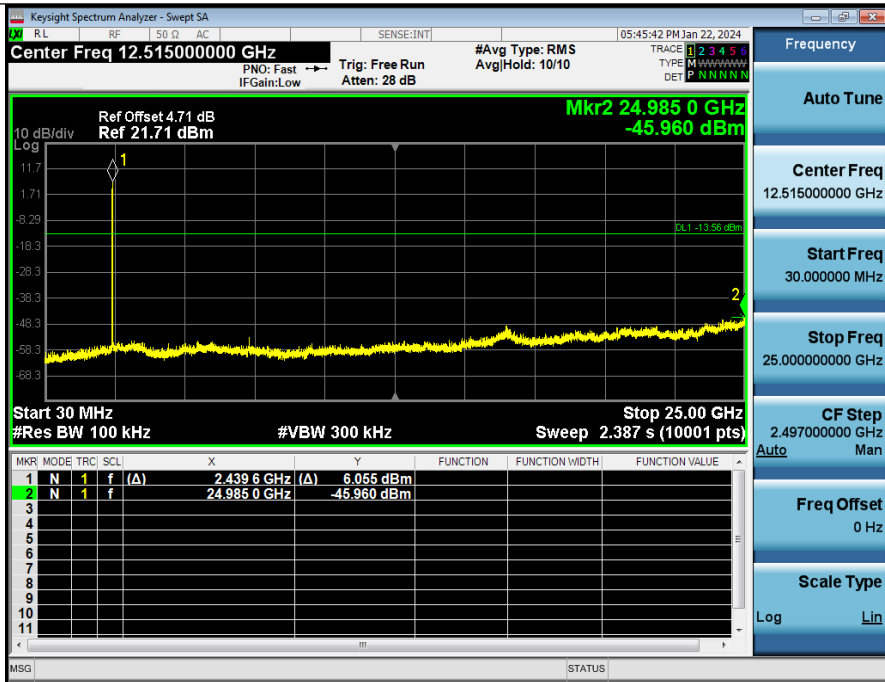
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1 Reference Level NVNT_ANT1_802_11b_2437



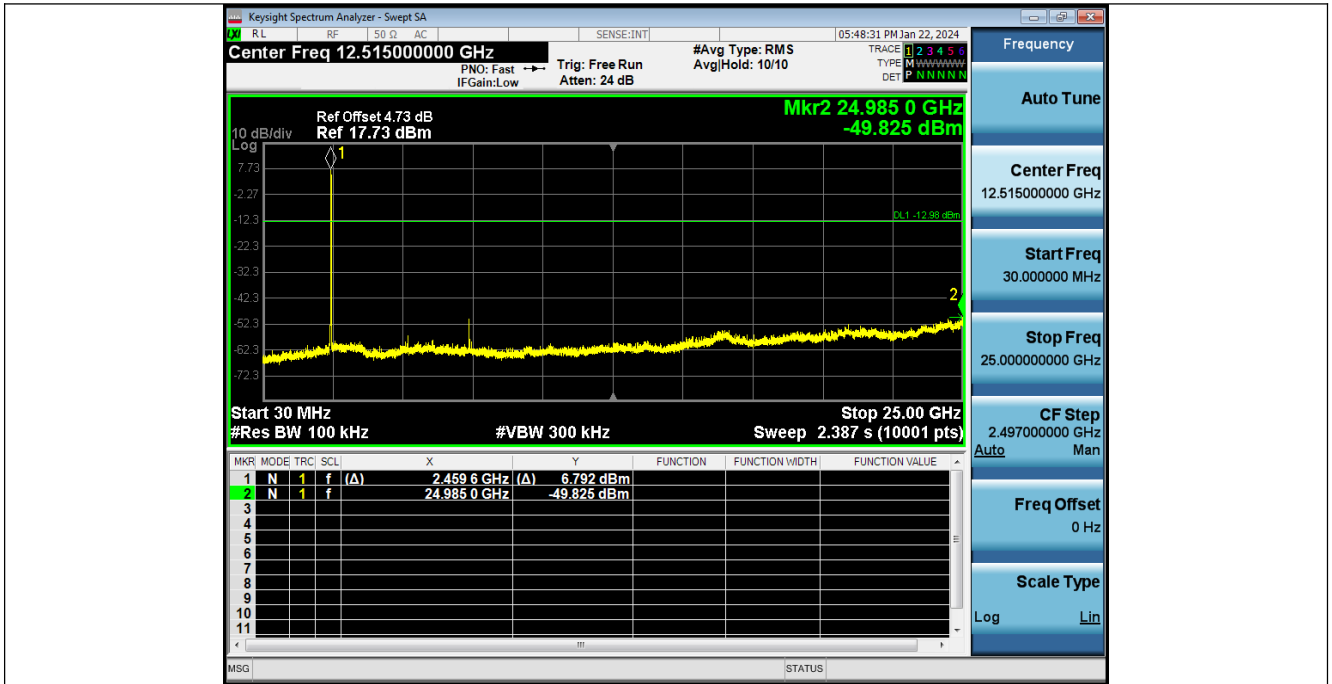
2 Spurious_Emission_NVNT_ANT1_802_11b_2437



1 Reference Level NVNT_ANT1_802_11b_2462



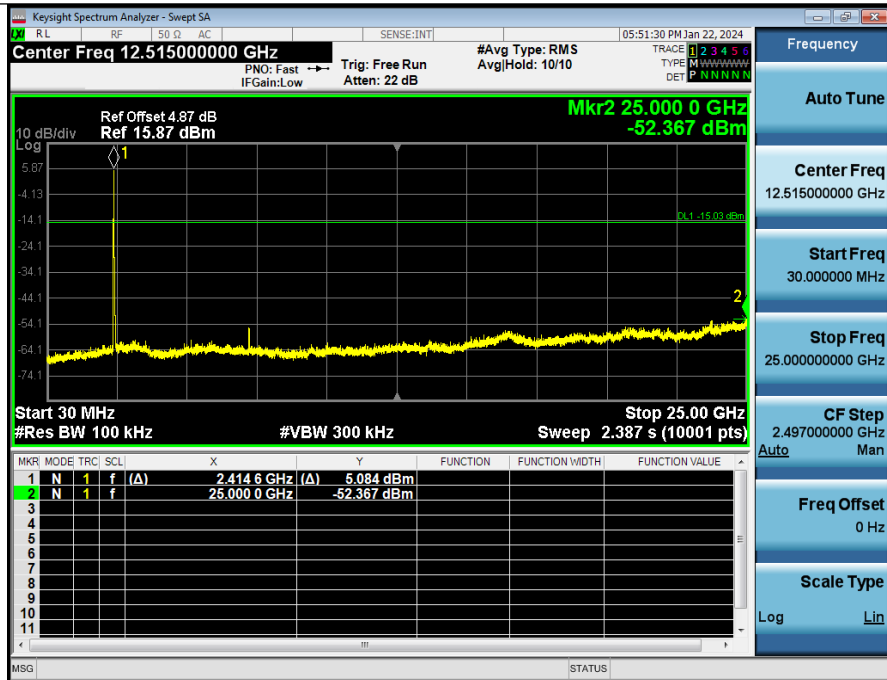
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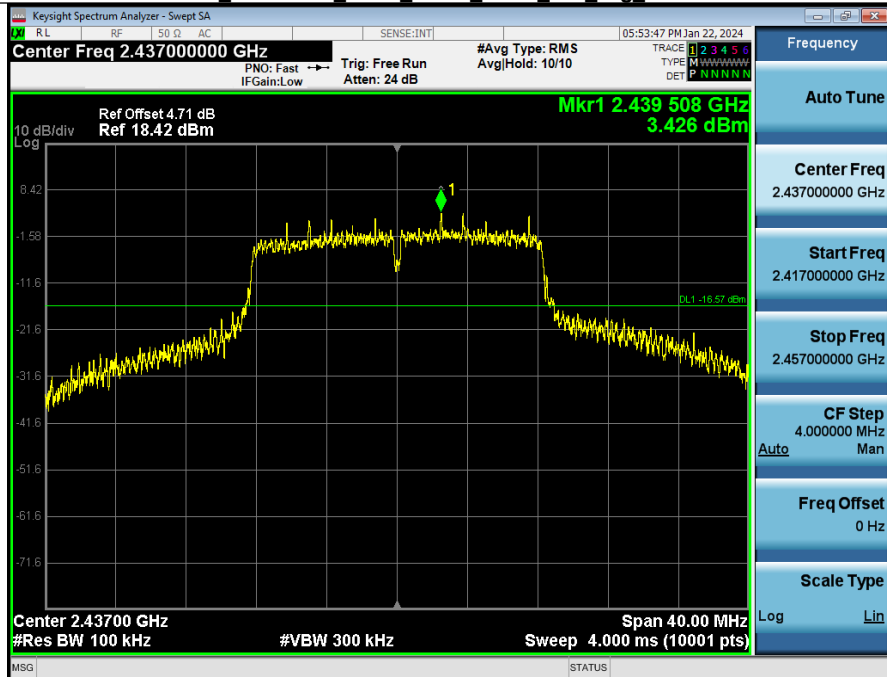
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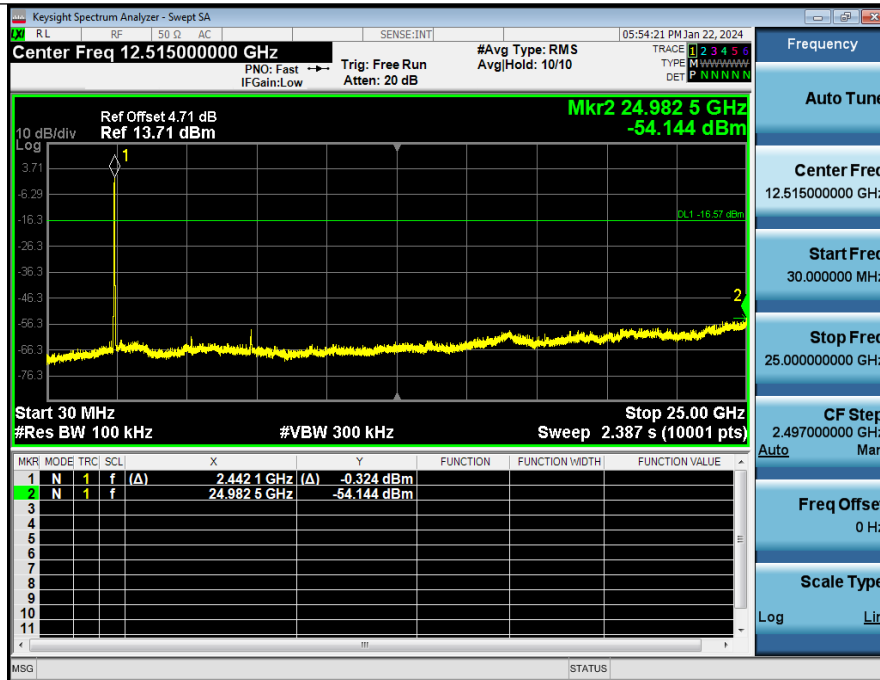
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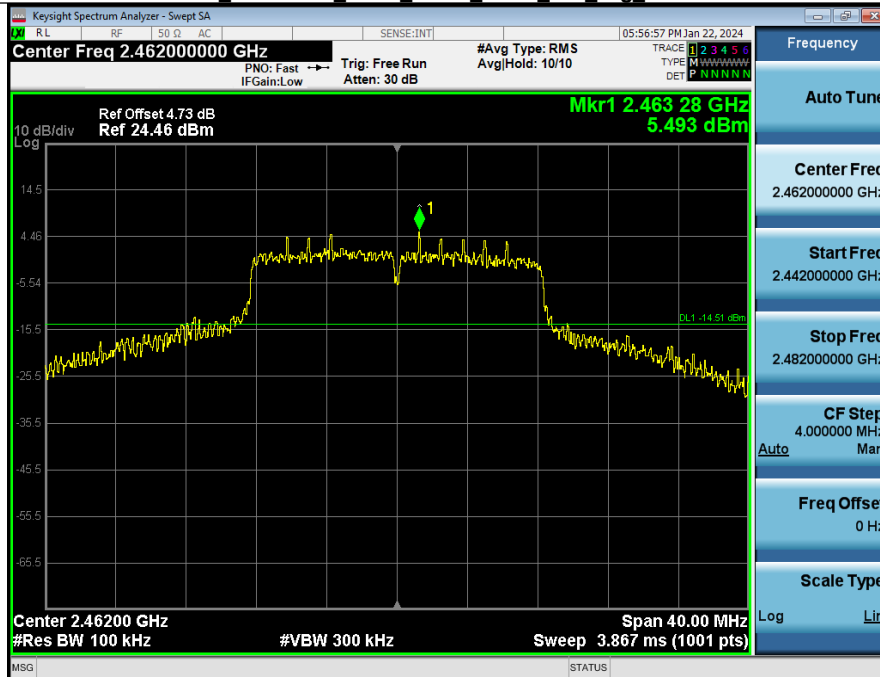
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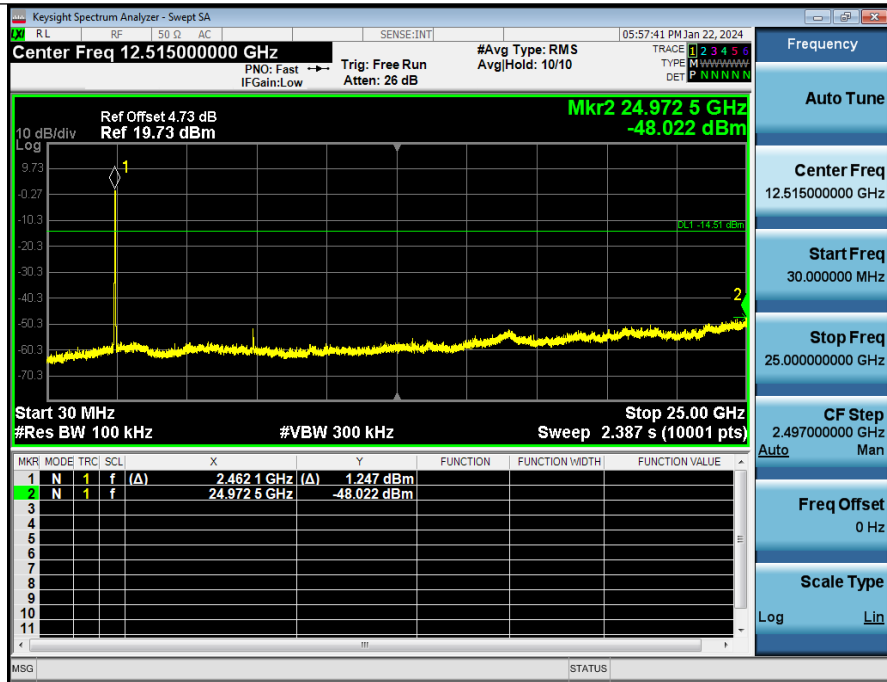
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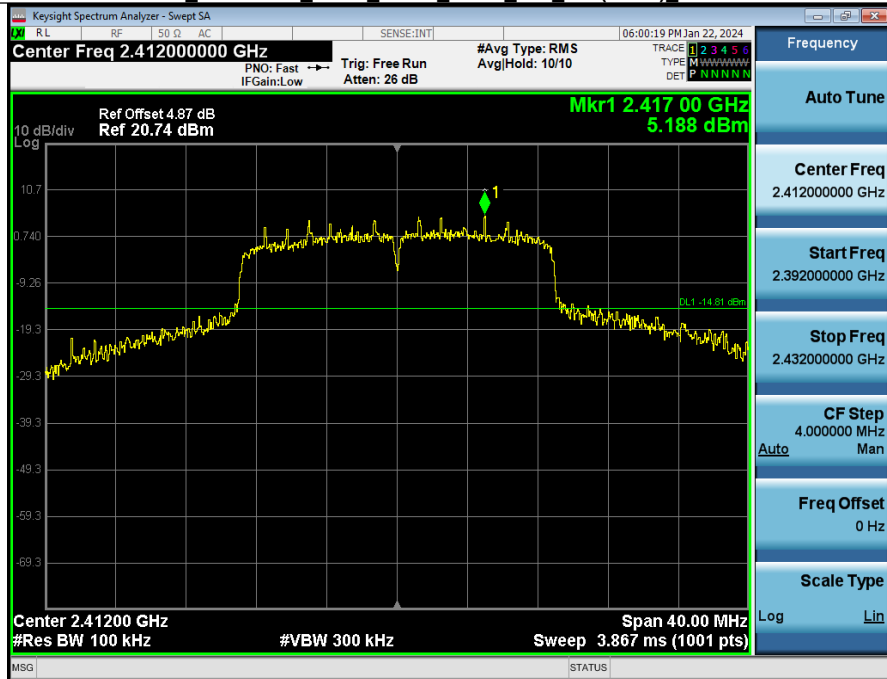
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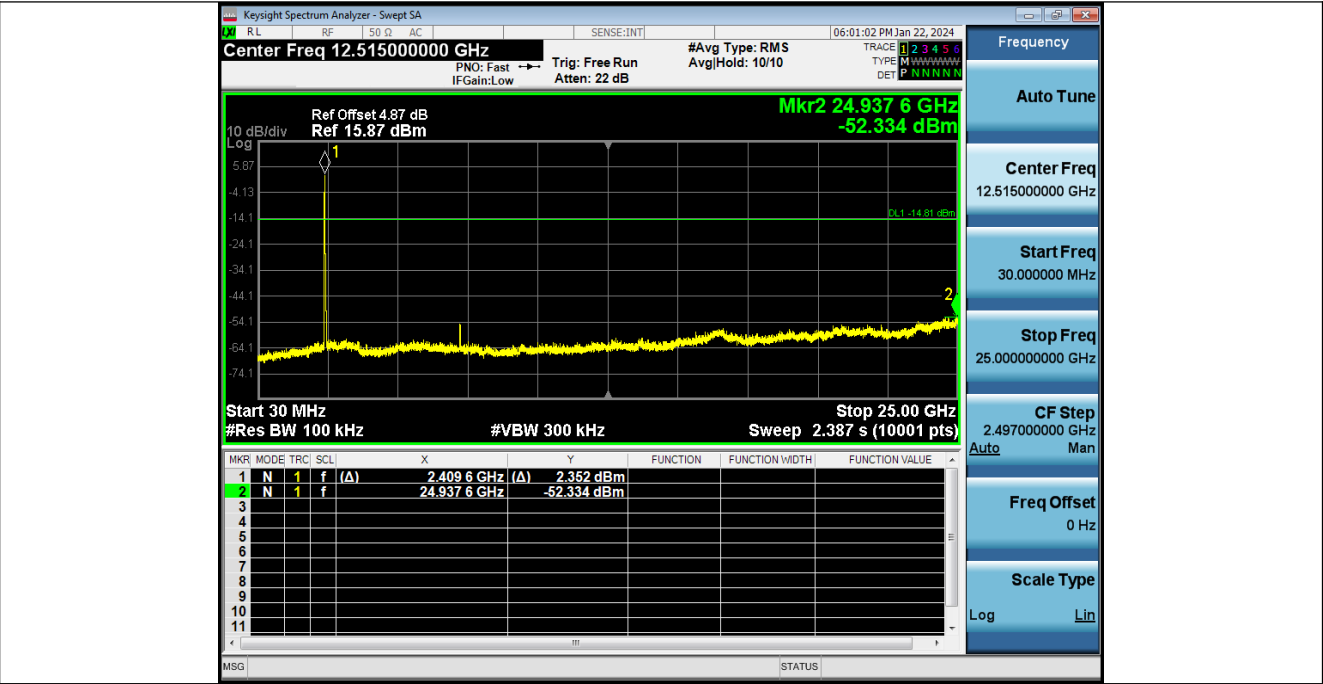
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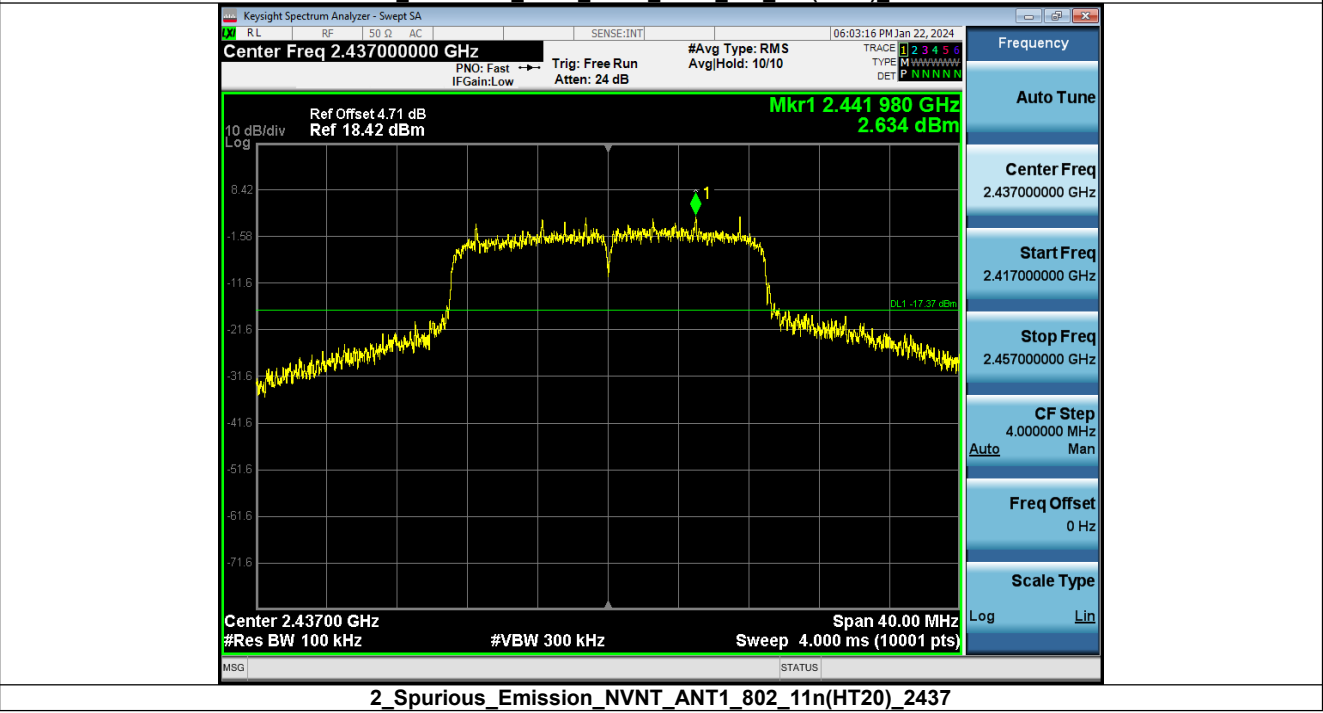
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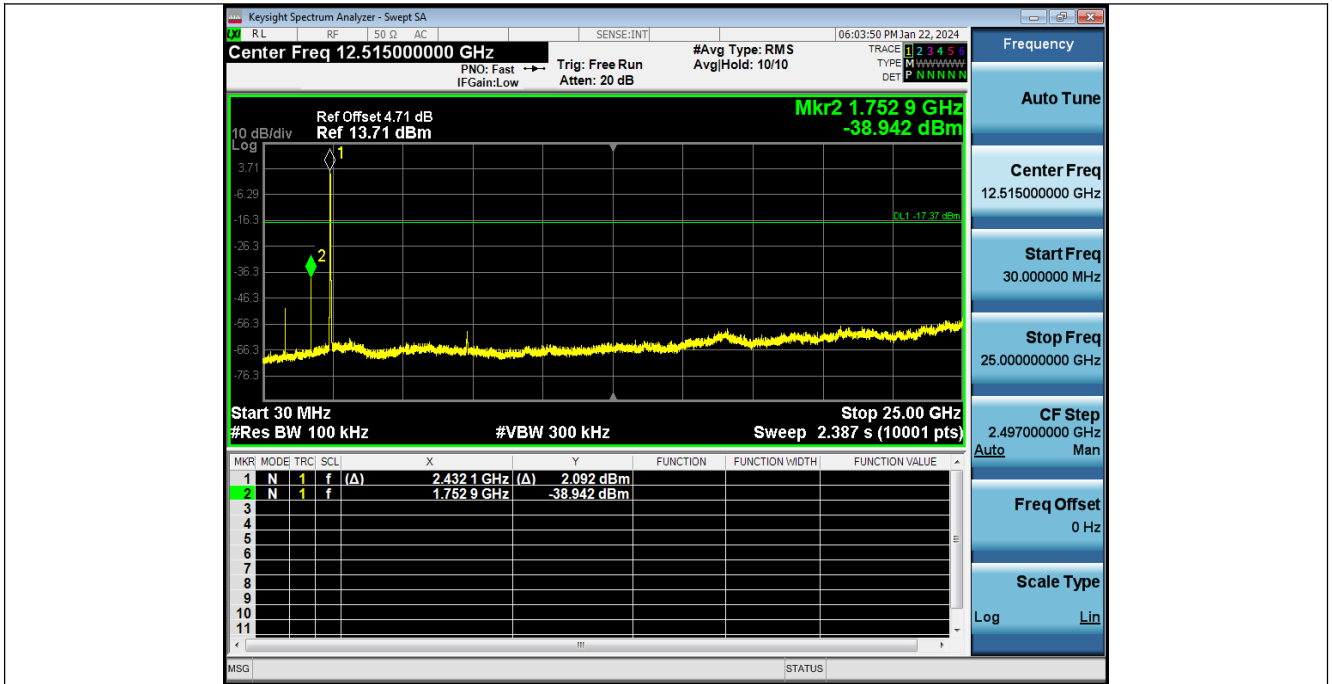
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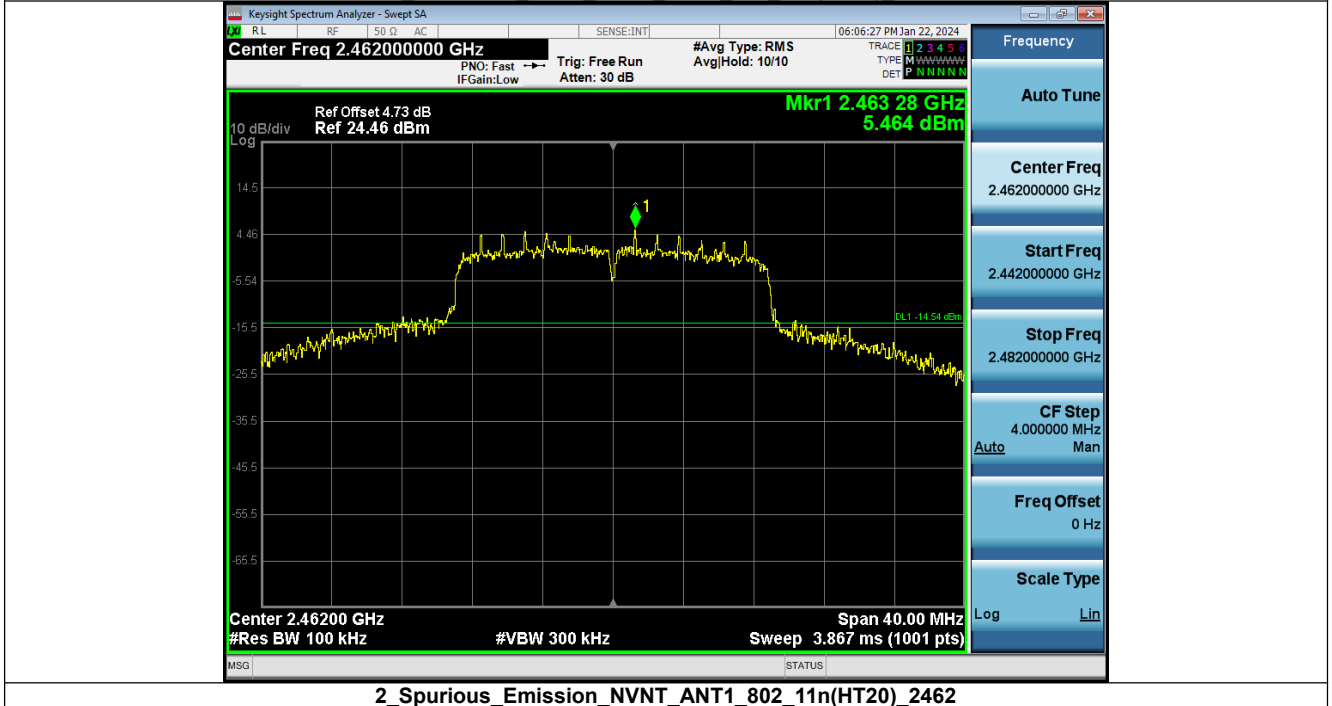
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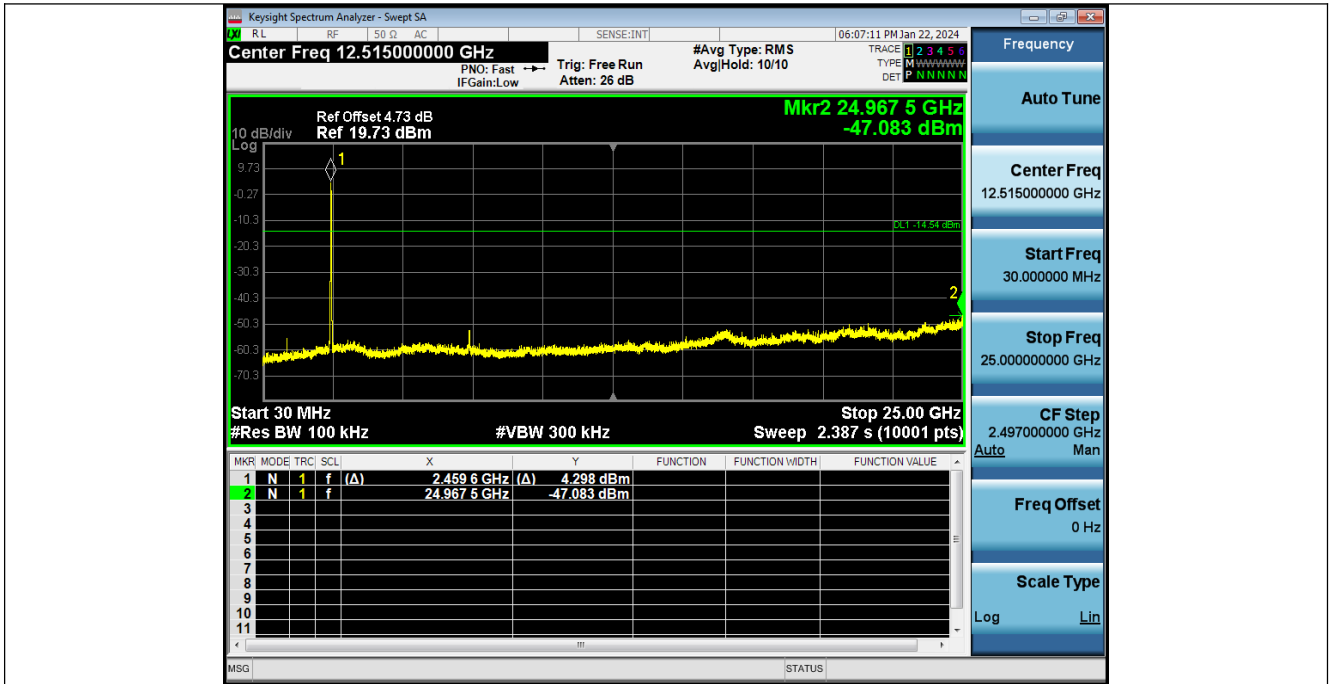
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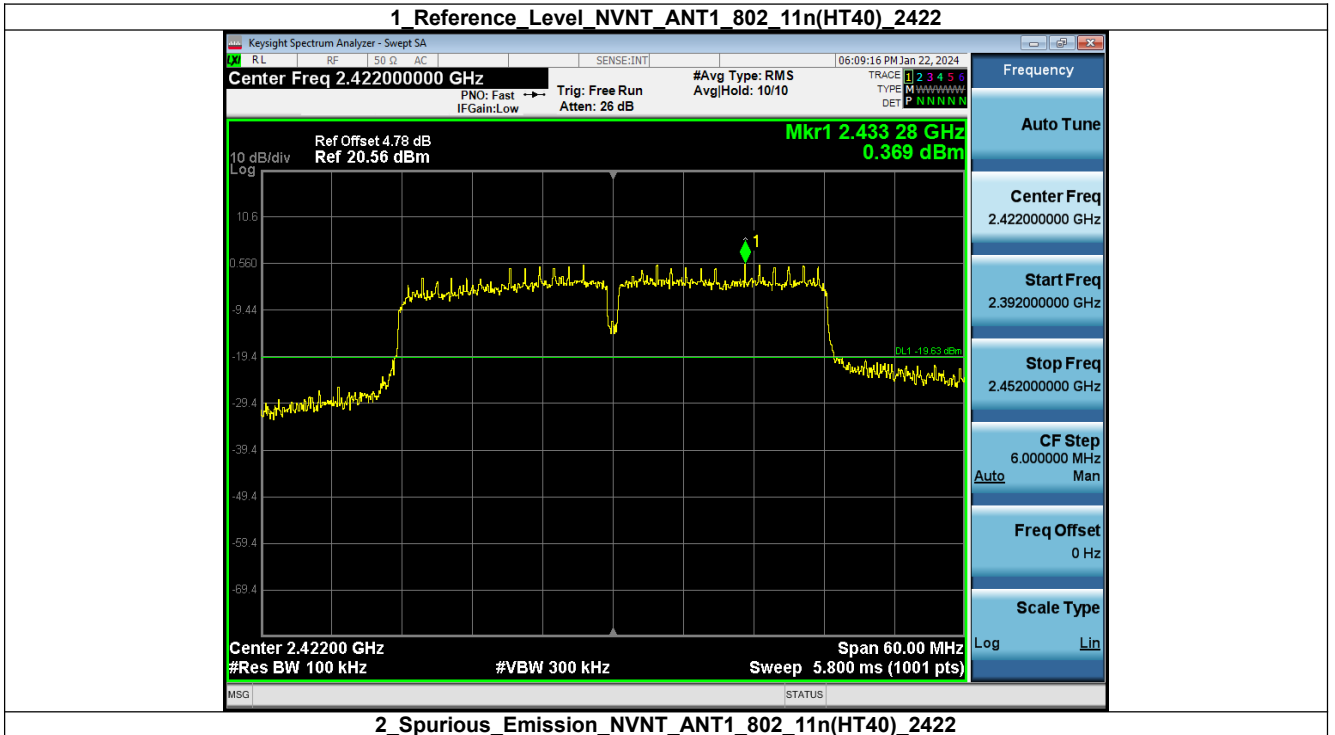
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



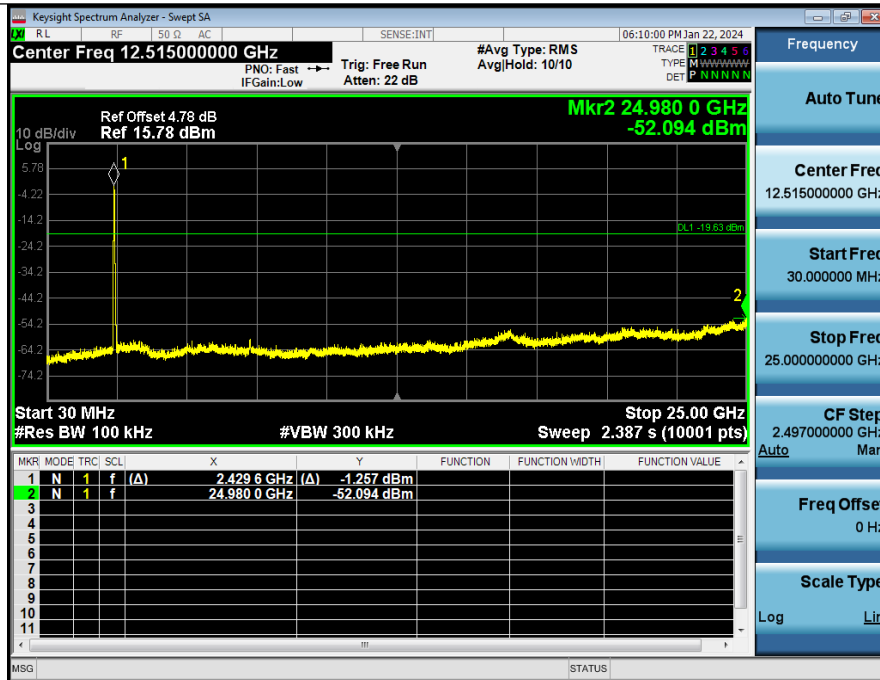
2 Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



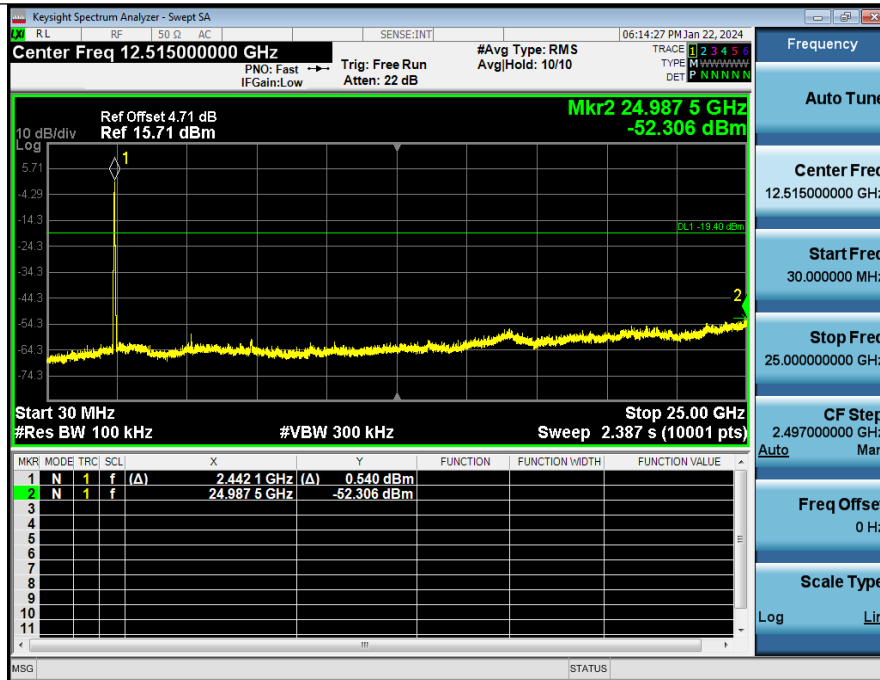
2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2422



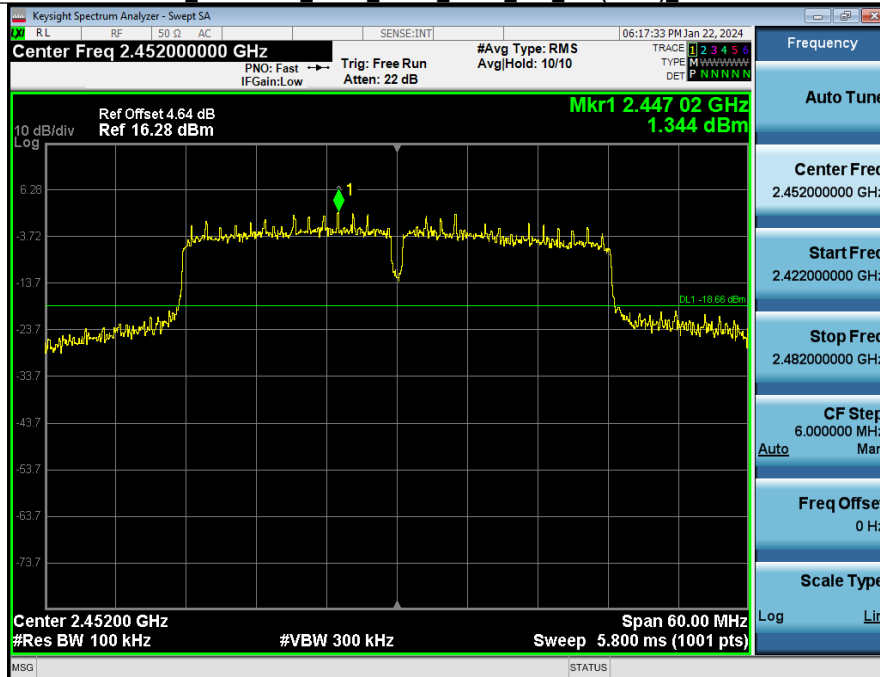
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2437



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

