

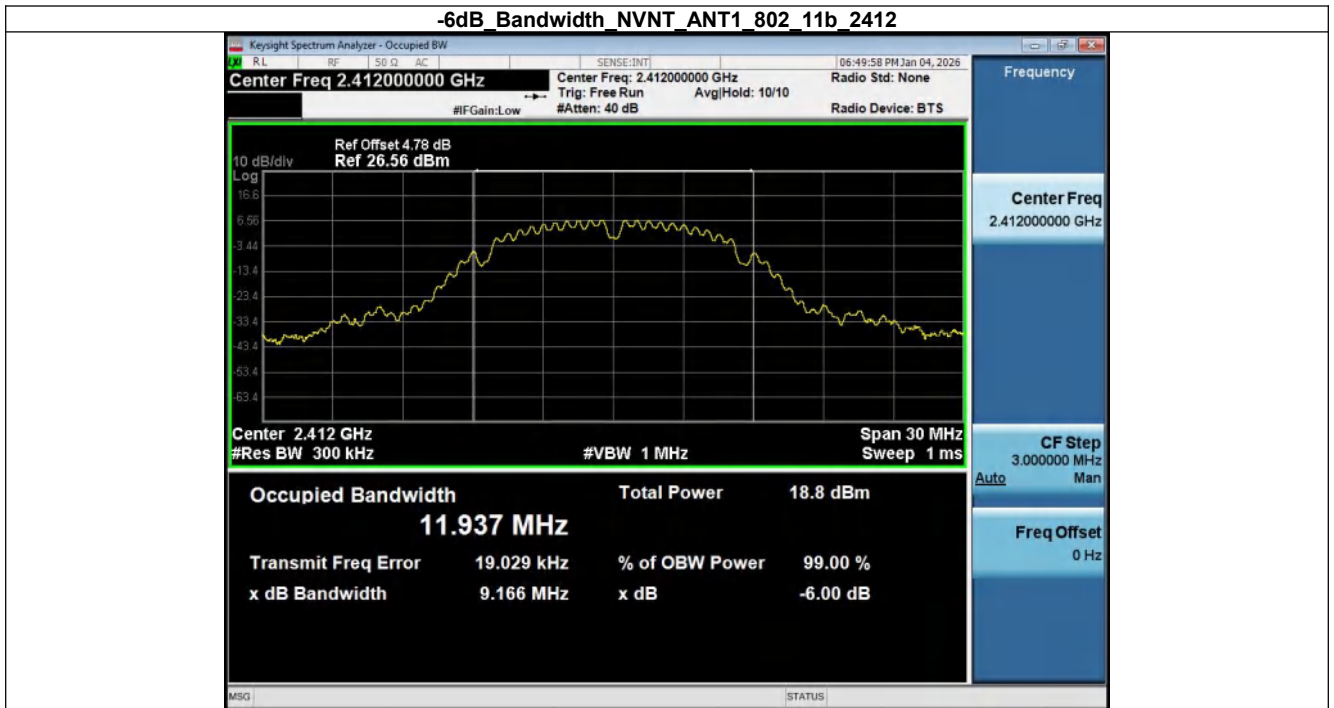
FCC ID WIFI 2.4
FCC_2.4G_WIFI (Part15.247) Test Data
FCC ID:2BGTL-XM-301
Report No. :BKC26010523AE-1

Table of Contents

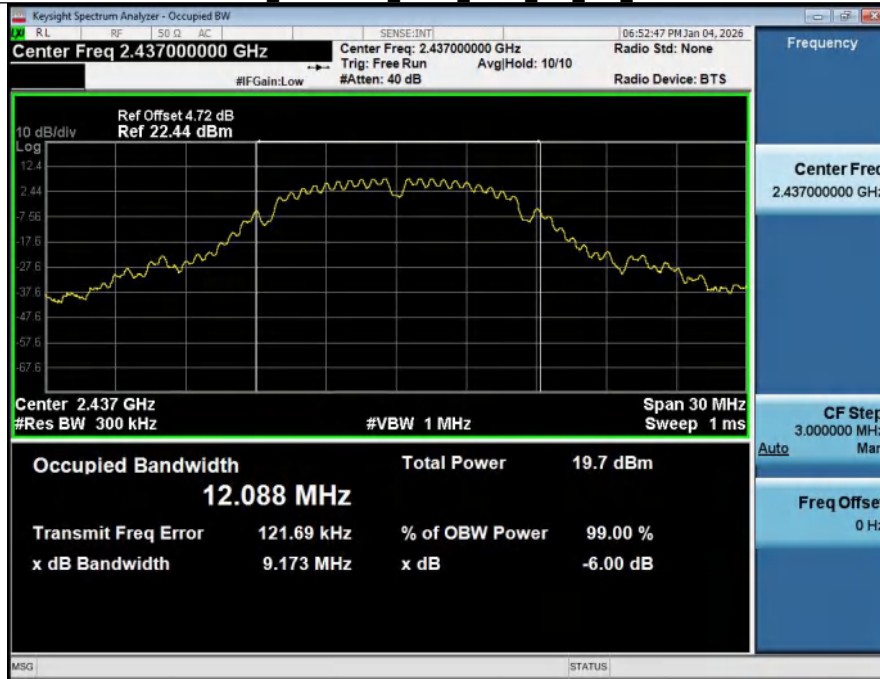
1. -6dB Bandwidth	2
2. 99% Occupied Bandwidth	9
3. Duty Cycle	16
4. MAX. Output Power	23
5. Power Spectral Density	24
6. Bandedge	31
7. Spurious Emission	39

1. -6dB Bandwidth

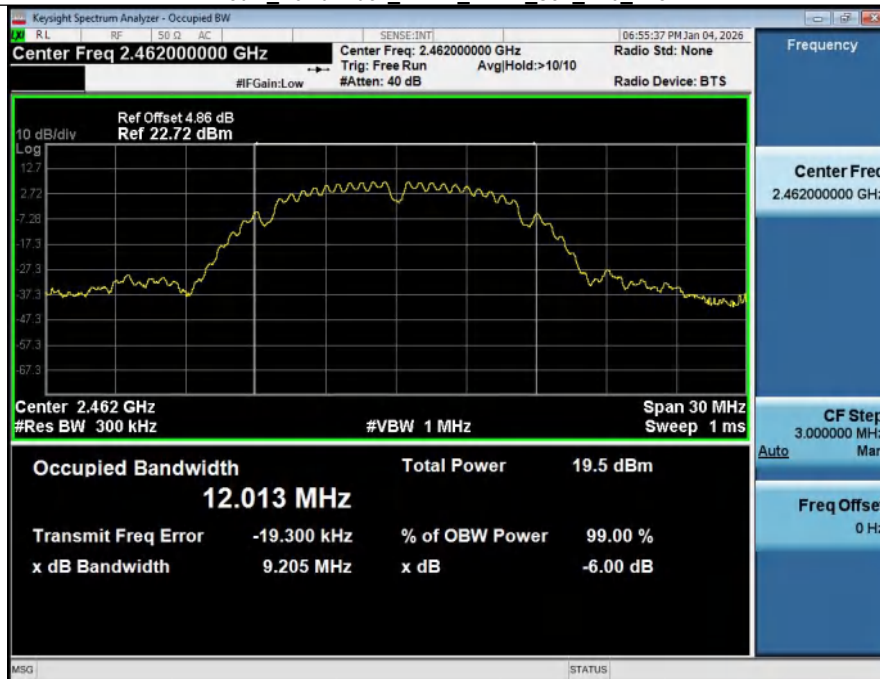
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.17	500	Pass
NVNT	ANT1	802.11b	2437.00	9.17	500	Pass
NVNT	ANT1	802.11b	2462.00	9.21	500	Pass
NVNT	ANT1	802.11g	2412.00	16.45	500	Pass
NVNT	ANT1	802.11g	2437.00	16.40	500	Pass
NVNT	ANT1	802.11g	2462.00	16.48	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.24	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.39	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.45	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.19	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.77	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.86	500	Pass



-6dB Bandwidth_NVNT_ANT1_802_11b_2437



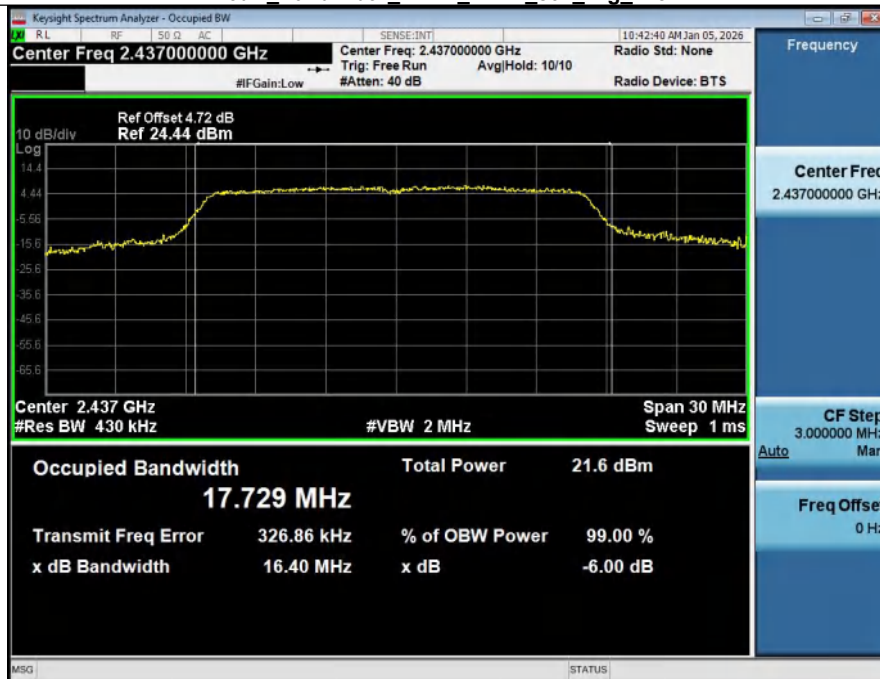
-6dB Bandwidth_NVNT_ANT1_802_11b_2462



-6dB Bandwidth_NVNT_ANT1_802_11g_2412



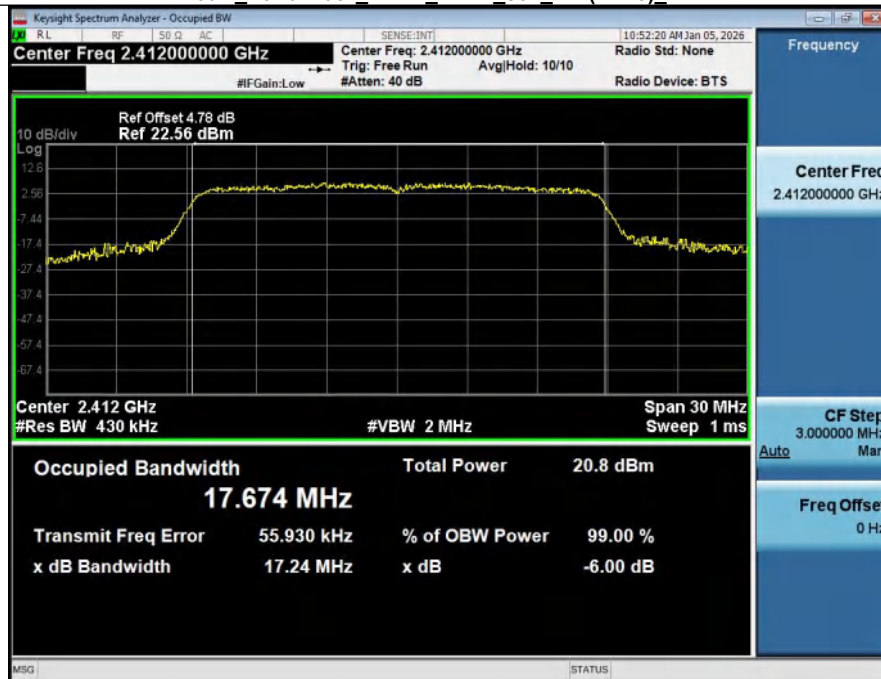
-6dB Bandwidth_NVNT_ANT1_802_11g_2437



-6dB Bandwidth_NVNT_ANT1_802_11g_2462



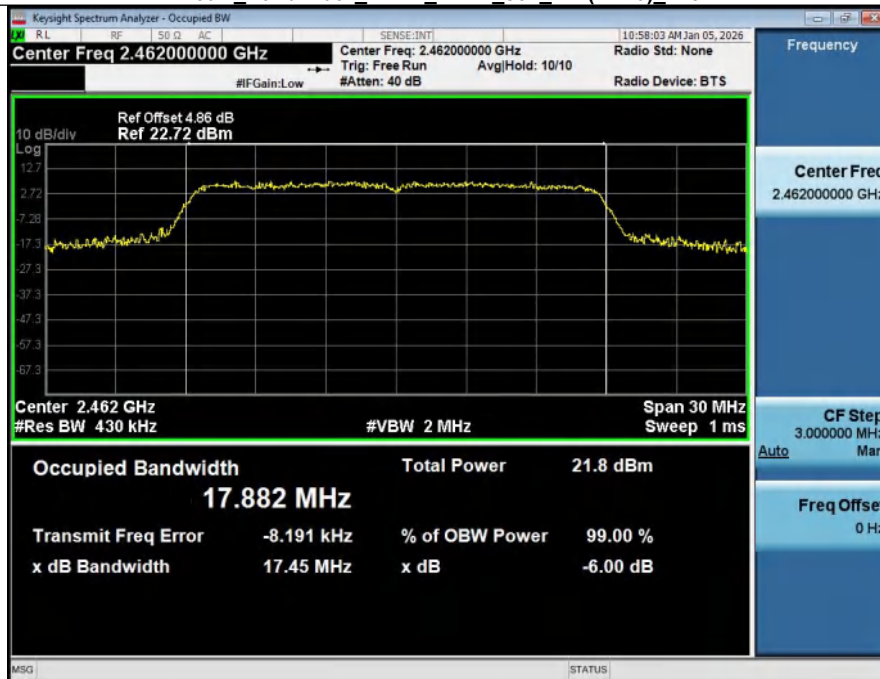
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-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

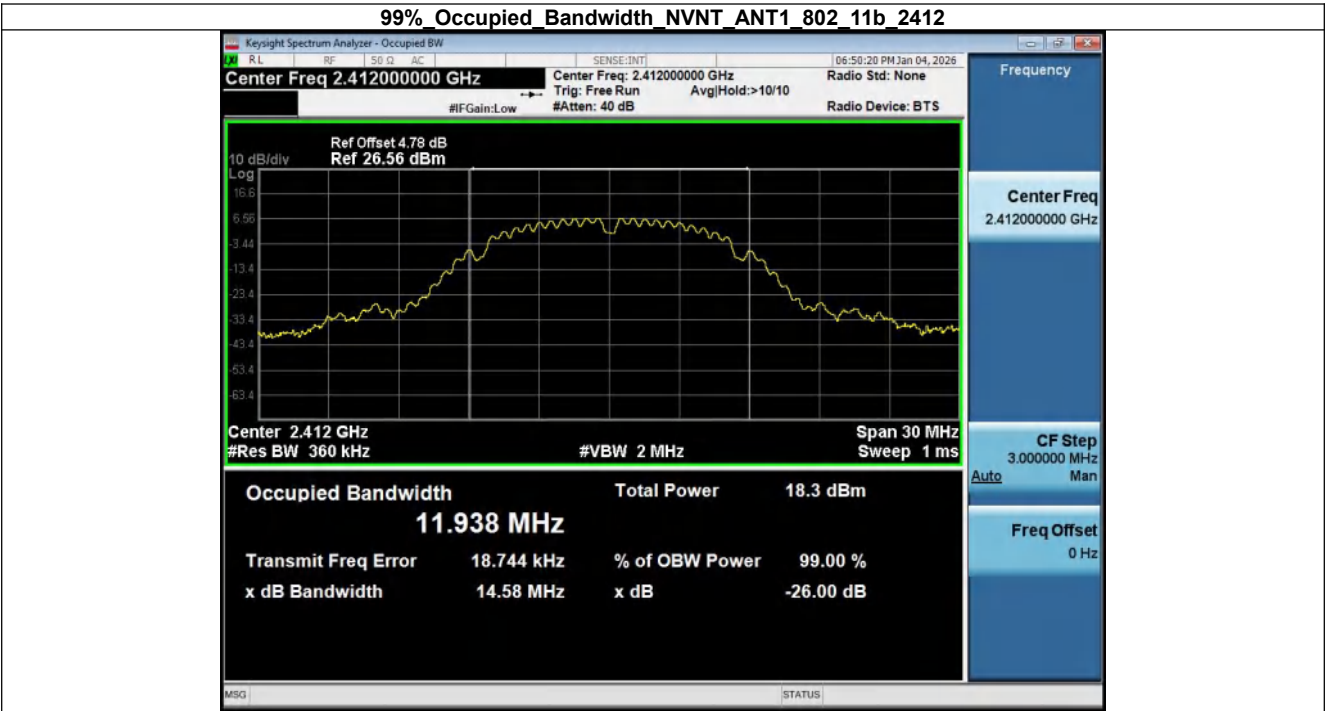


-6dB Bandwidth NVNT_ANT1_802_11n(HT40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	11.938
NVNT	ANT1	802.11b	2437.00	12.104
NVNT	ANT1	802.11b	2462.00	12.019
NVNT	ANT1	802.11g	2412.00	17.227
NVNT	ANT1	802.11g	2437.00	18.523
NVNT	ANT1	802.11g	2462.00	17.652
NVNT	ANT1	802.11n(HT20)	2412.00	17.798
NVNT	ANT1	802.11n(HT20)	2437.00	18.150
NVNT	ANT1	802.11n(HT20)	2462.00	18.000
NVNT	ANT1	802.11n(HT40)	2422.00	36.865
NVNT	ANT1	802.11n(HT40)	2437.00	36.362
NVNT	ANT1	802.11n(HT40)	2452.00	36.625



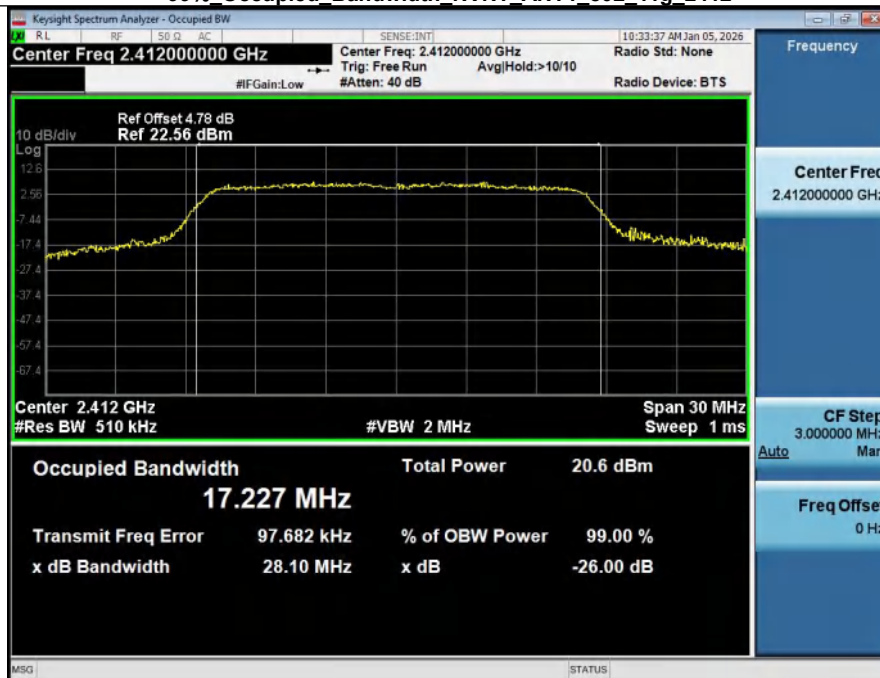
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



99% Occupied Bandwidth NVNT_ANT1_802_11b_2462

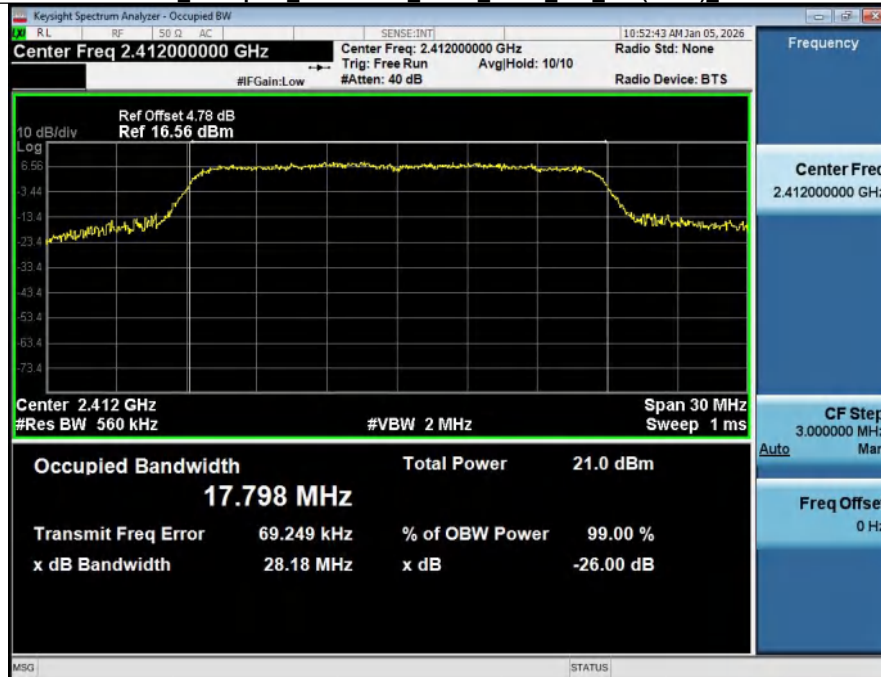


99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



99% Occupied Bandwidth NVNT_ANT1_802_11g_2437





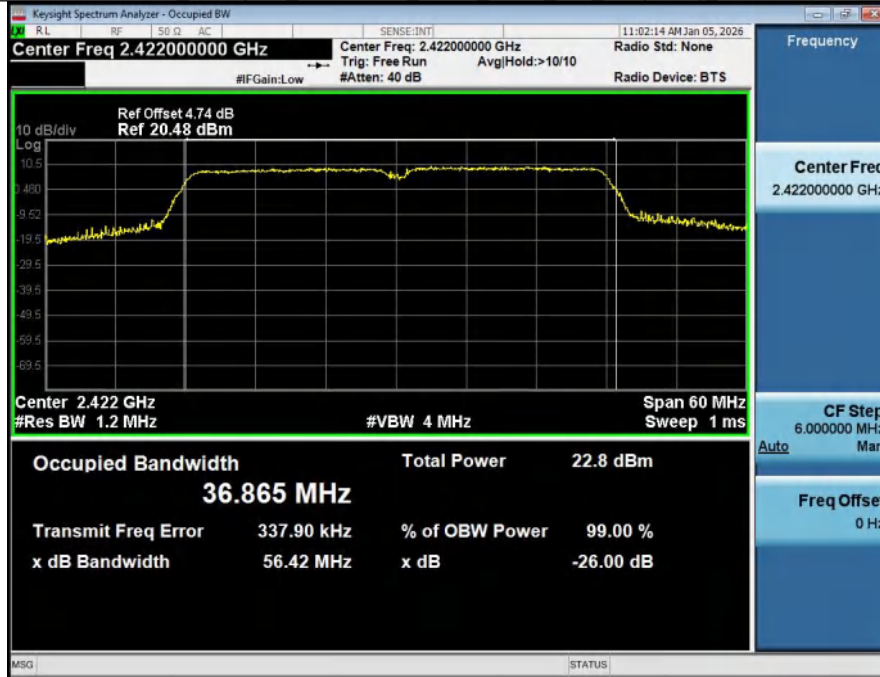
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2437



99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2462



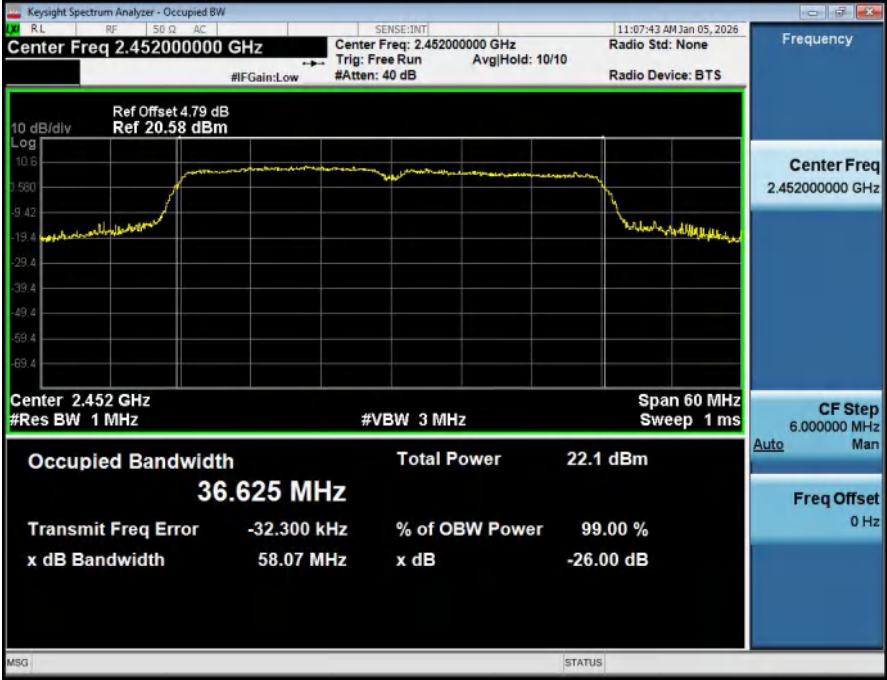
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2422



99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2437

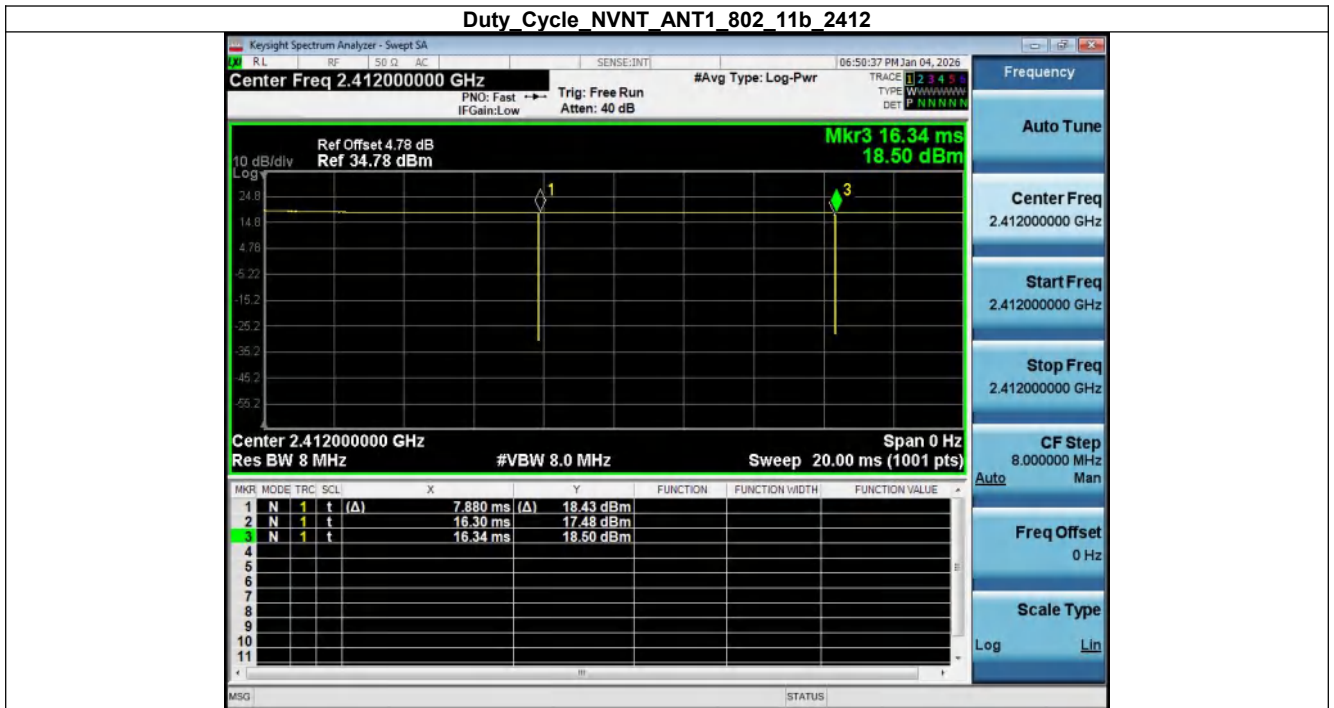


99% Occupied Bandwidth NVNT ANT1 802_11n(HT40) 2452

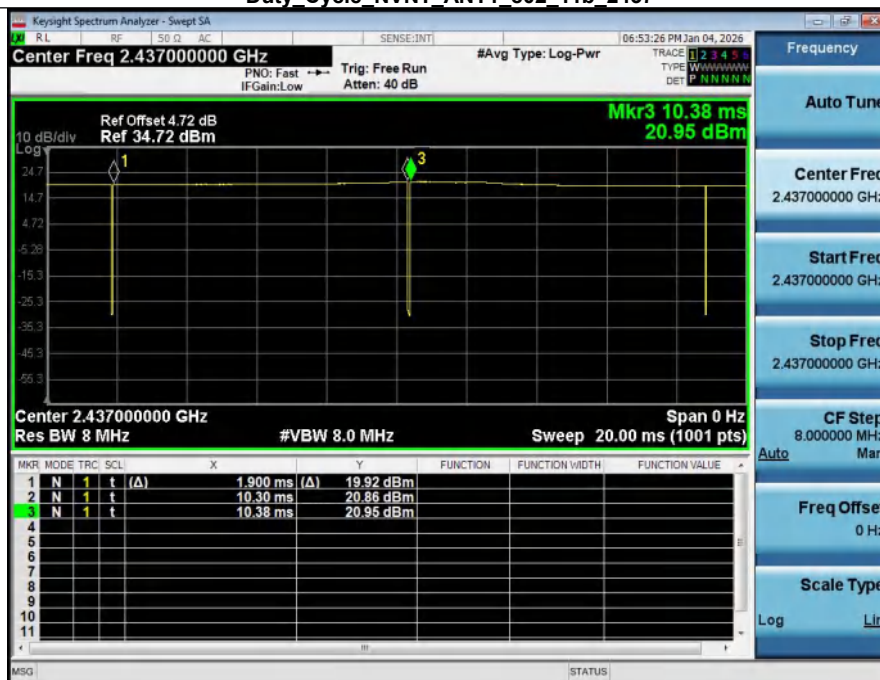


3. Duty Cycle

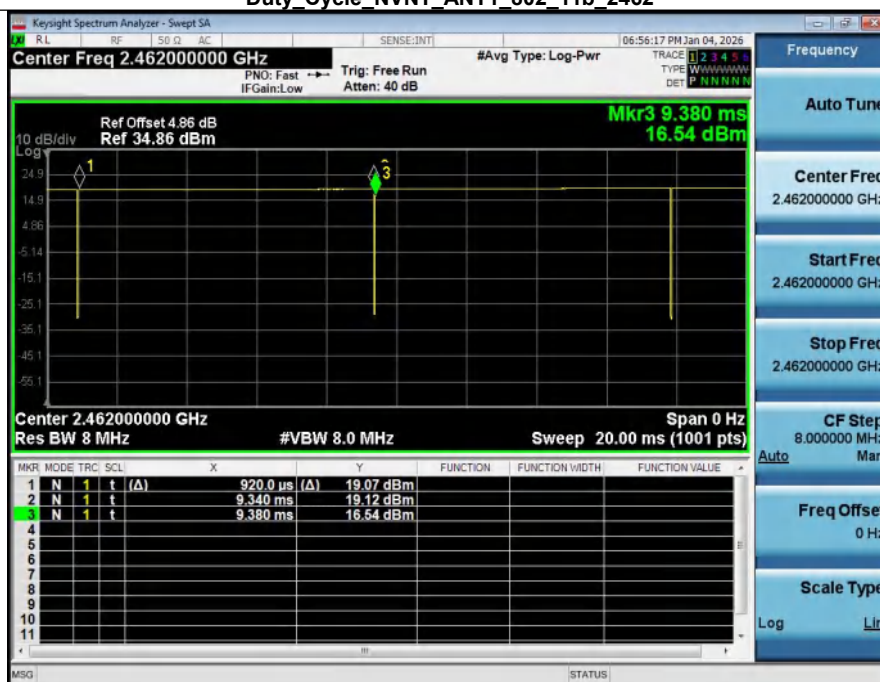
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.29	0.00
NVNT	ANT1	802.11b	2462.00	99.76	0.00
NVNT	ANT1	802.11g	2412.00	98.61	0.00
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	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	96.77	0.14
NVNT	ANT1	802.11n(HT40)	2422.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2437.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2452.00	93.75	0.28



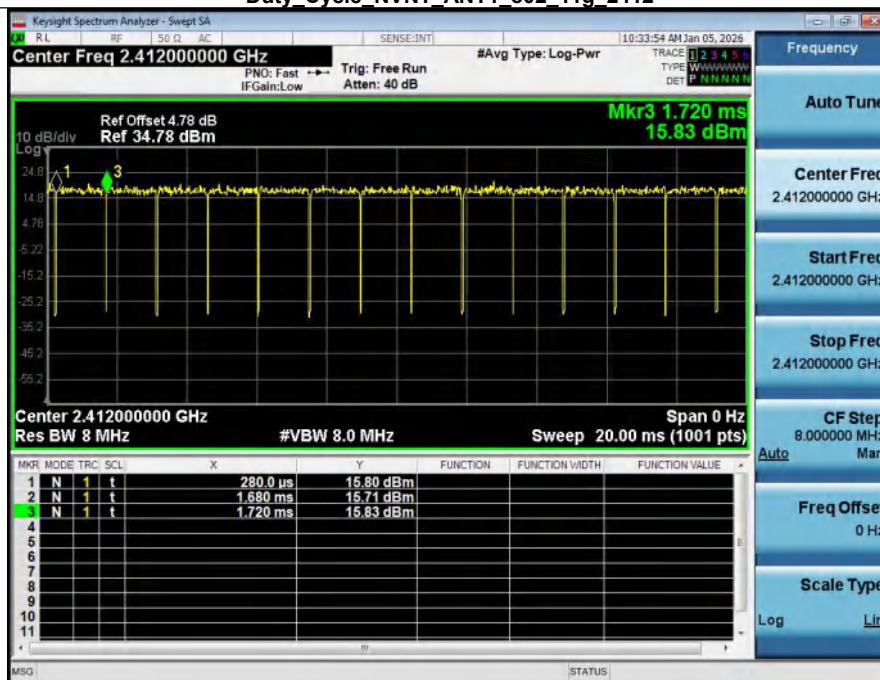
Duty Cycle NVNT_ANT1_802_11b_2437



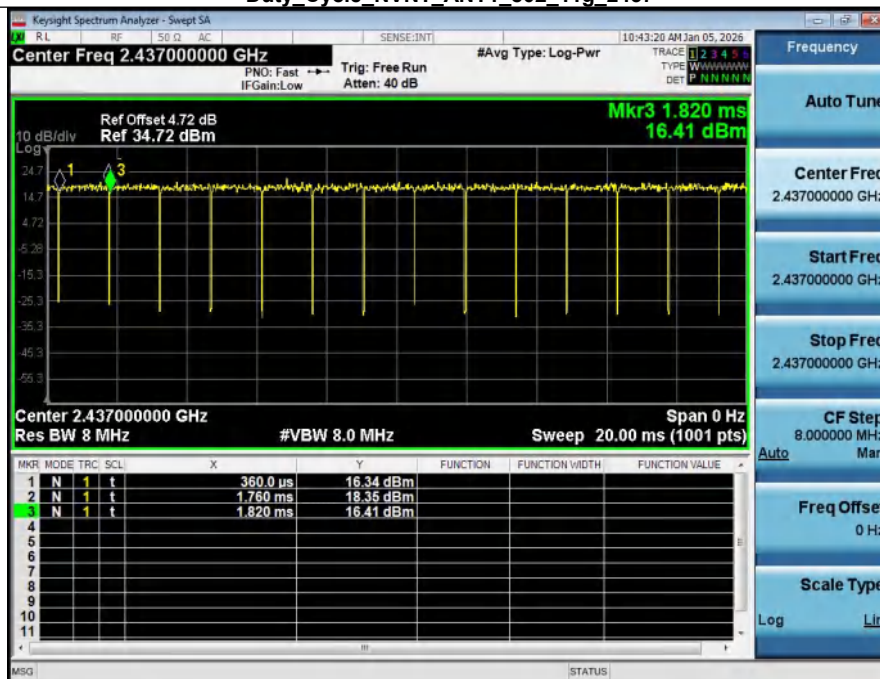
Duty Cycle NVNT_ANT1_802_11b_2462



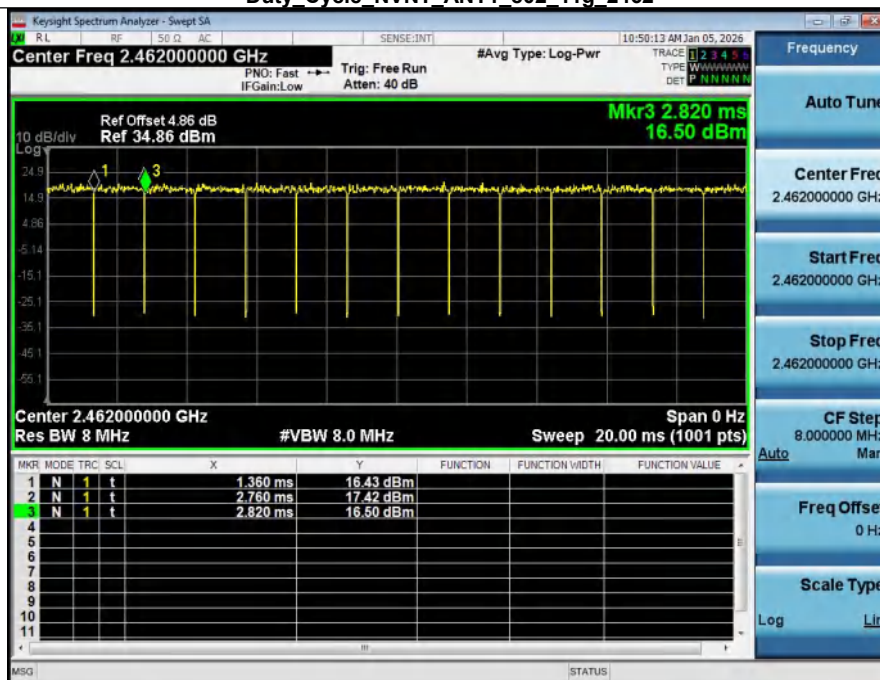
Duty Cycle NVNT_ANT1_802_11g_2412



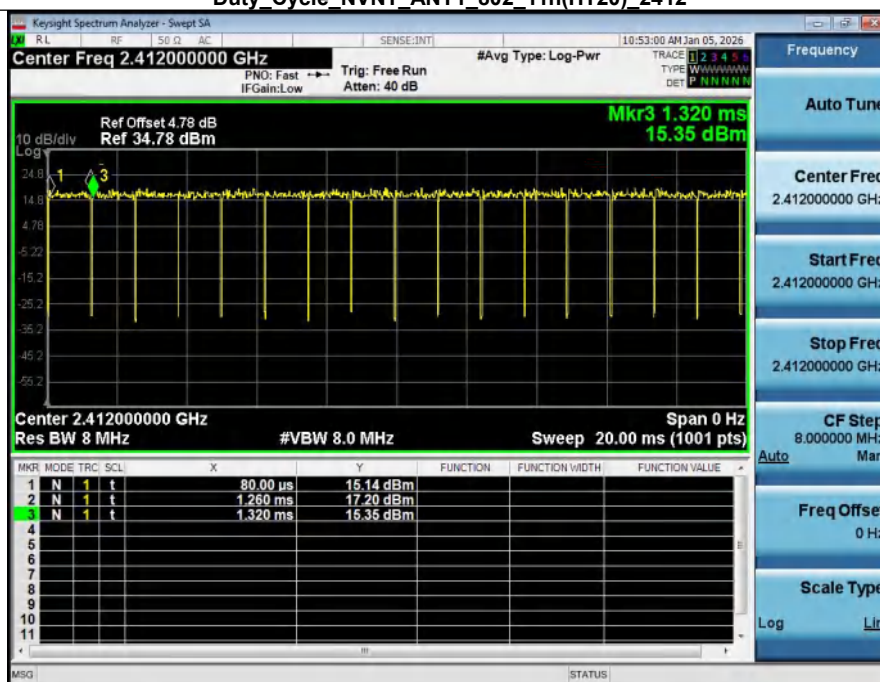
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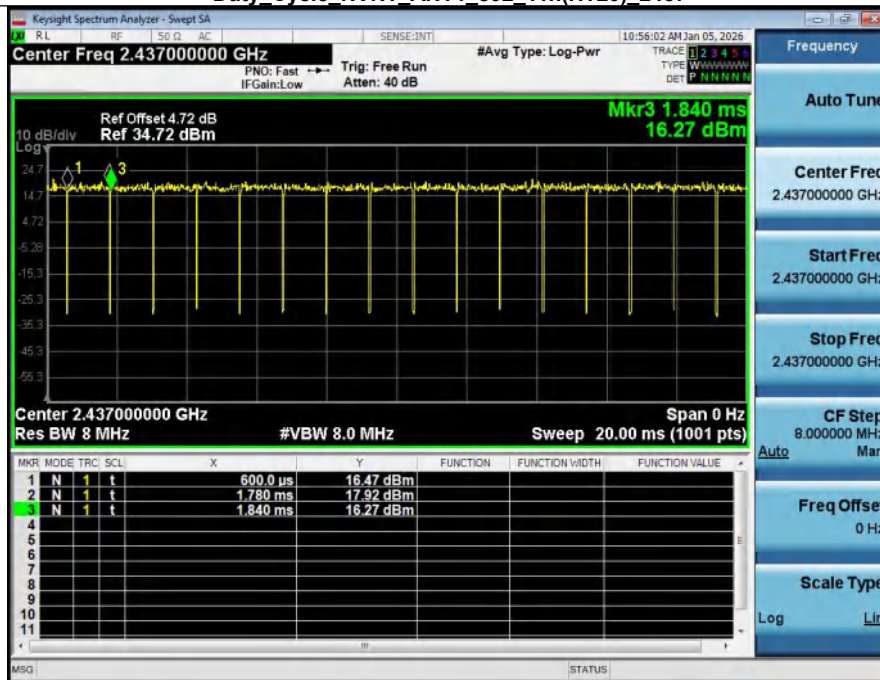
Duty Cycle NVNT_ANT1_802_11g_2462



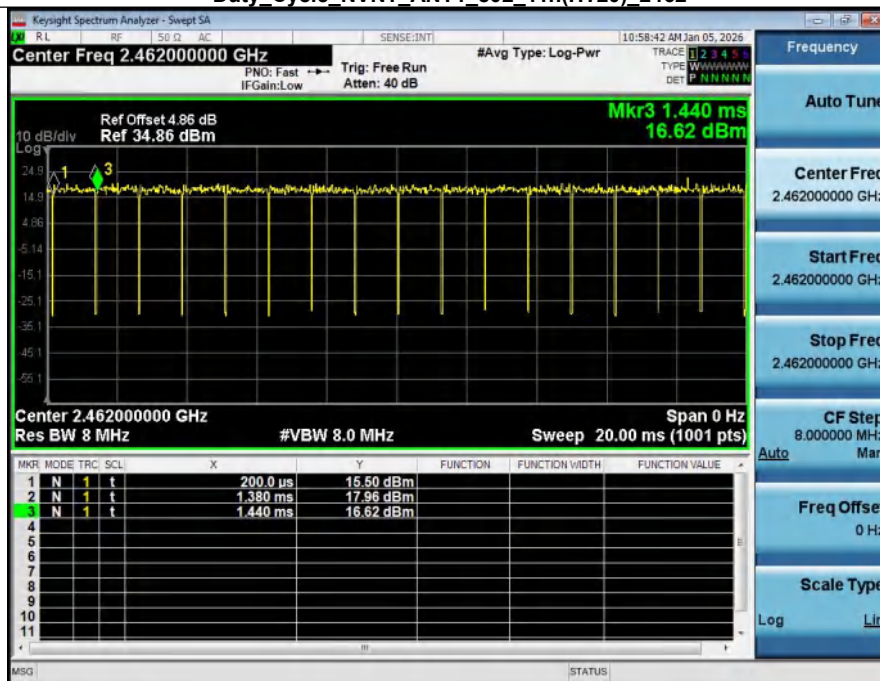
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



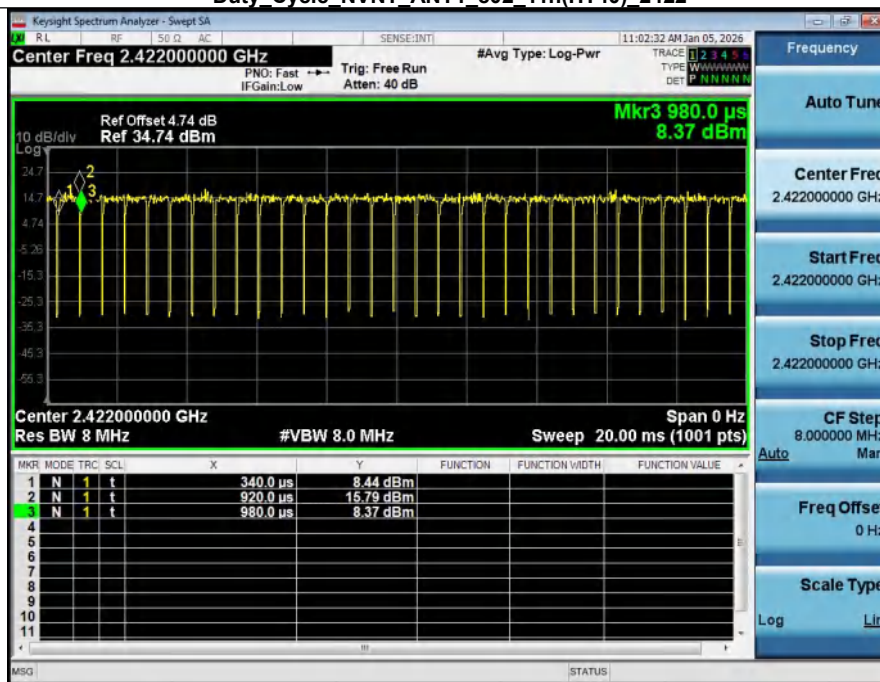
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



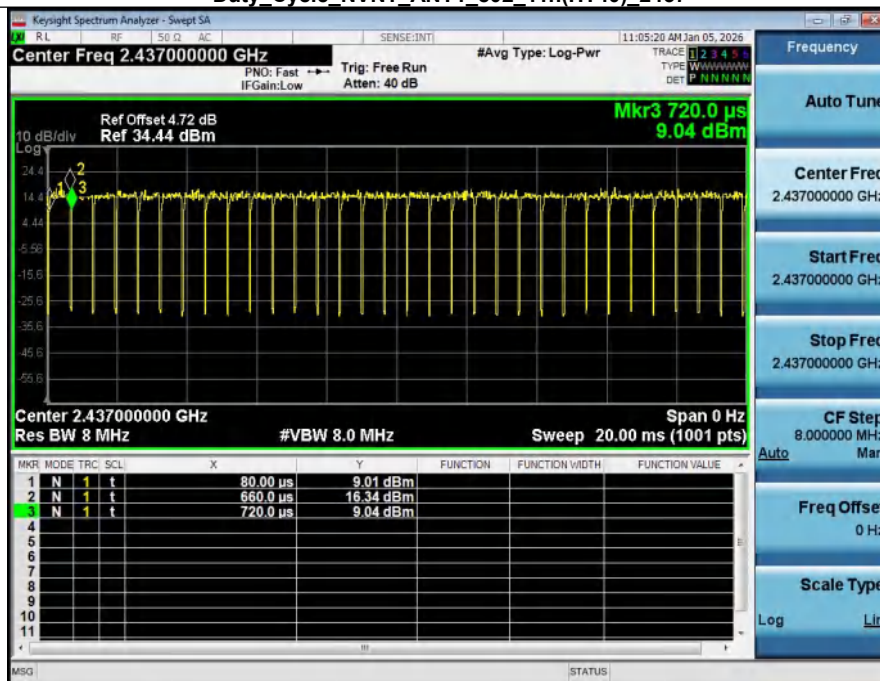
Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



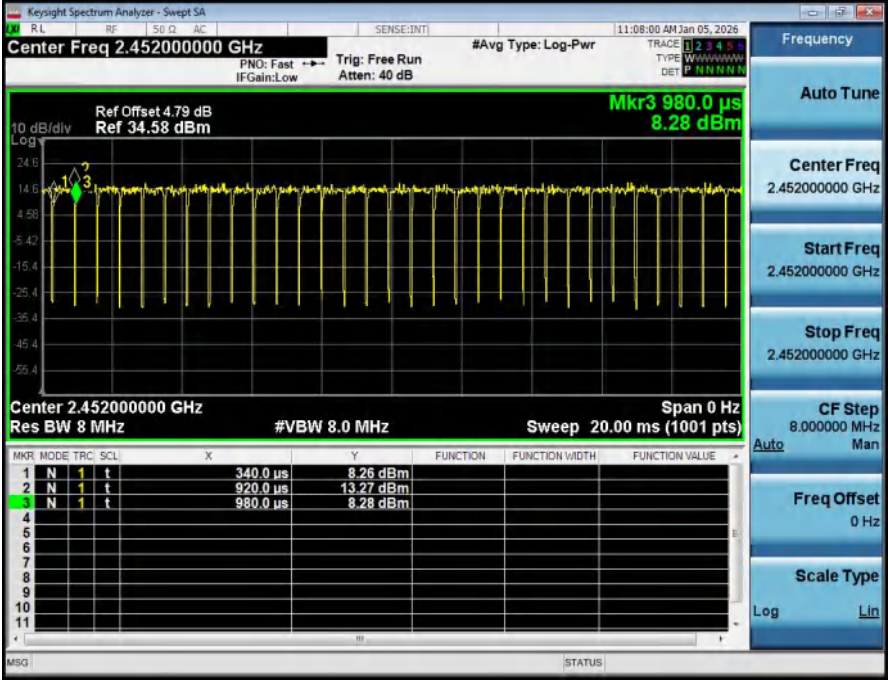
Duty Cycle NVNT ANT1_802_11n(HT40)_2422



Duty Cycle NVNT ANT1_802_11n(HT40)_2437



Duty Cycle NVNT ANT1_802_11n(HT40)_2452



4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	8.59	8.59	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	7.46	7.46	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	6.31	6.31	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	5.44	5.44	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	4.18	4.18	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	3.1	3.1	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	4.1	4.1	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	2.79	2.79	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	1.72	1.72	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	3.02	3.02	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	2.02	2.02	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	1.5	1.5	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	2.85	-10.00	-7.15	8	Pass
NVNT	ANT1	802.11b	2437.00	3.36	-10.00	-6.64	8	Pass
NVNT	ANT1	802.11b	2462.00	5.54	-10.00	-4.46	8	Pass
NVNT	ANT1	802.11g	2412.00	-1.57	-10.00	-11.57	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.04	-10.00	-11.04	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.28	-10.00	-11.28	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-2.80	-10.00	-12.80	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-1.61	-10.00	-11.62	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-2.00	-10.00	-12.00	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-4.84	-10.00	-14.84	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-4.77	-10.00	-14.77	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-4.54	-10.00	-14.54	8	Pass



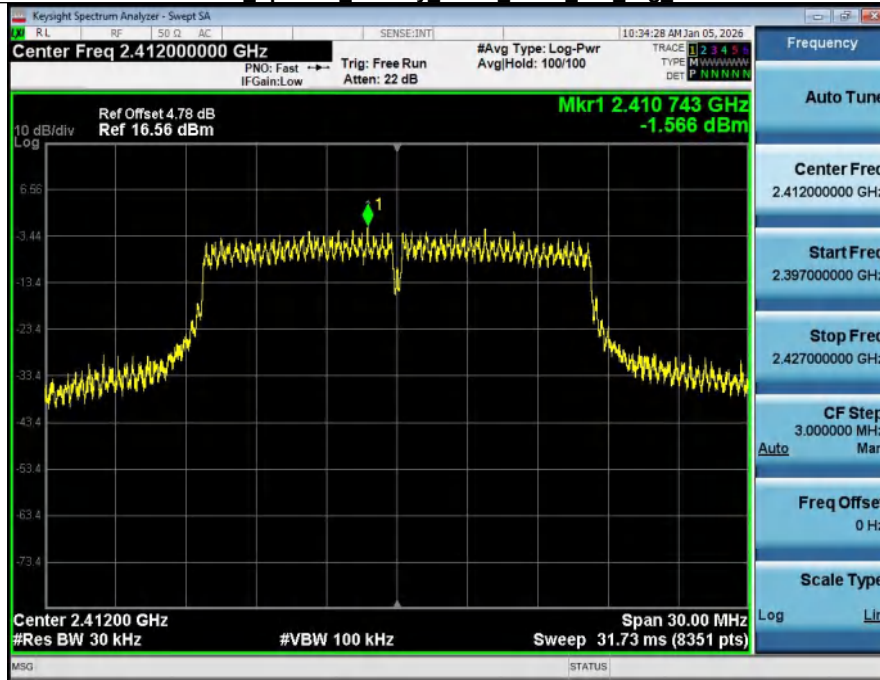
Power Spectral Density NVNT ANT1_802_11b_2437



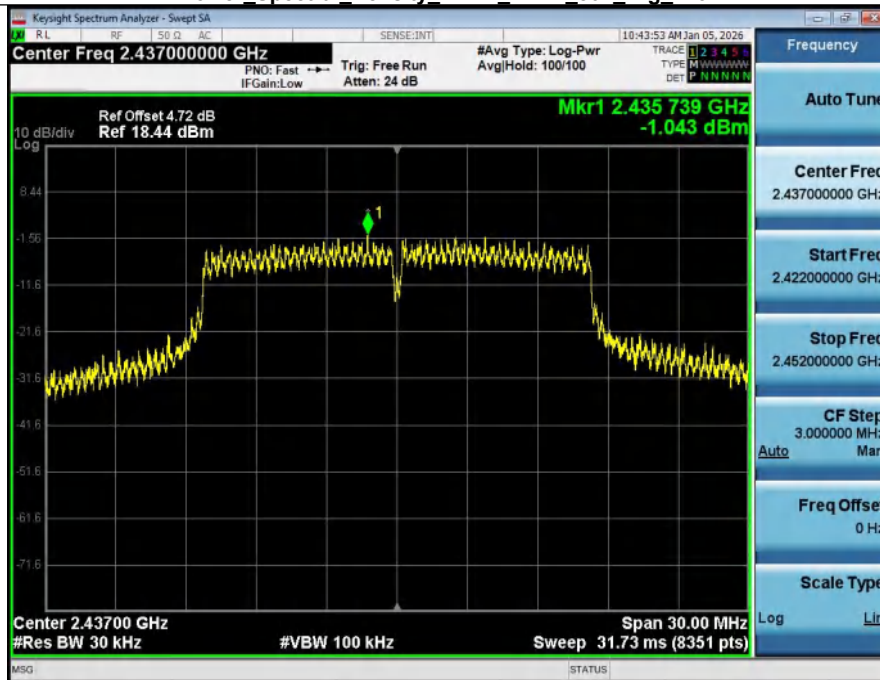
Power Spectral Density NVNT ANT1_802_11b_2462



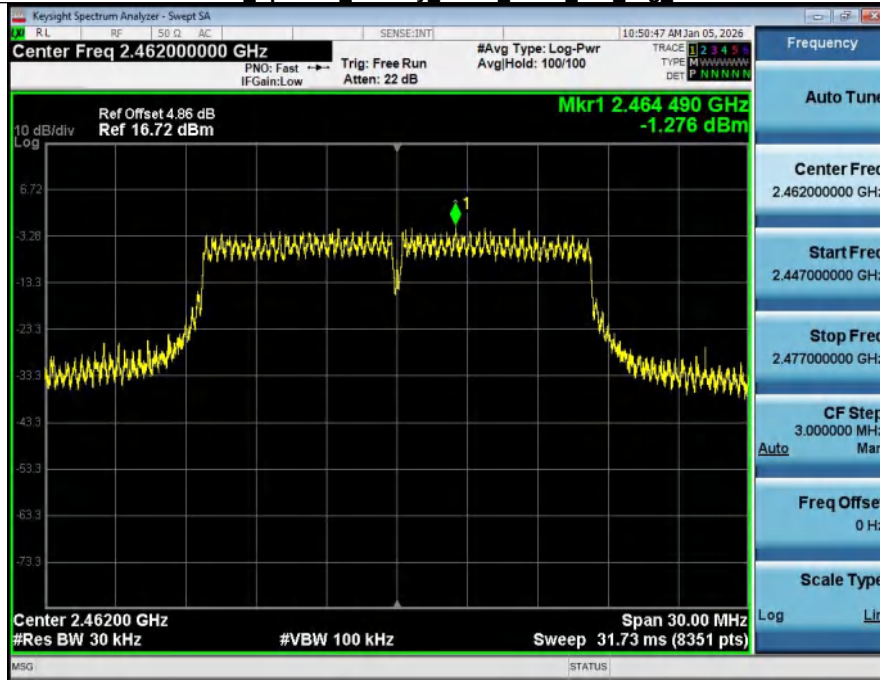
Power Spectral Density NVNT ANT1_802_11g_2412



Power Spectral Density NVNT ANT1_802_11g_2437



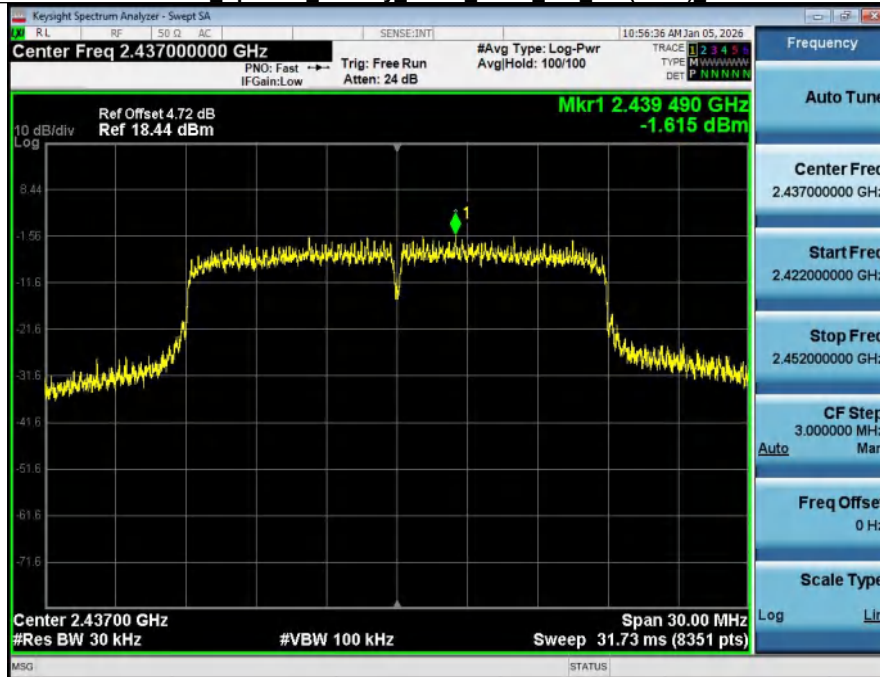
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Power Spectral Density NVNT ANT1_802_11n(HT20)_2412



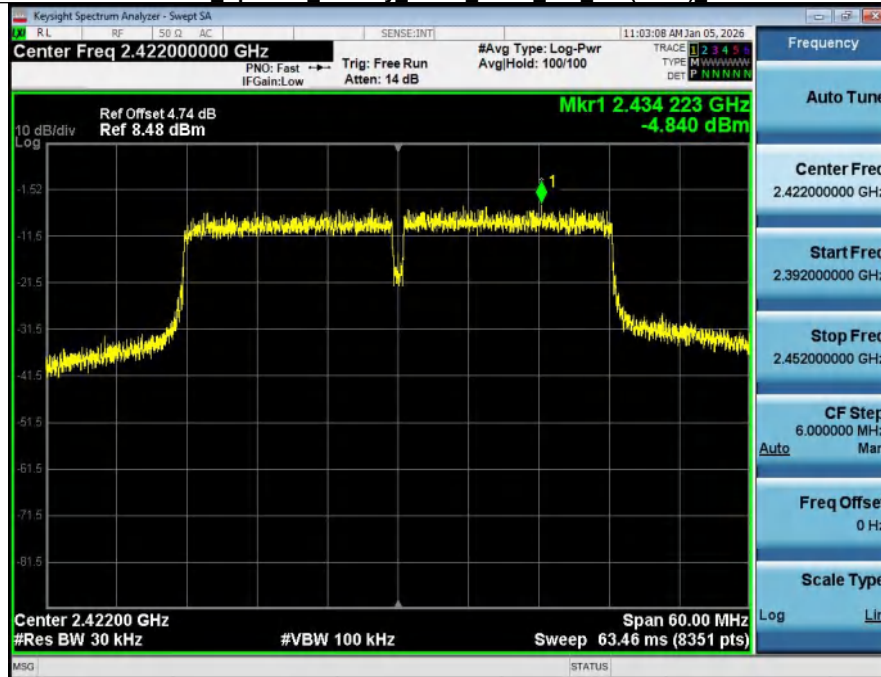
Power Spectral Density NVNT ANT1_802_11n(HT20)_2437



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_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	6.502	-37.601	-13.498	Pass
NVNT	ANT1	802.11b	2462.00	2484.448	7.219	-52.799	-12.781	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	2.783	-25.295	-17.217	Pass
NVNT	ANT1	802.11g	2462.00	2483.584	3.530	-37.374	-16.470	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.264	2.022	-29.071	-17.978	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.536	2.478	-36.713	-17.522	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2398.836	-0.264	-28.759	-20.264	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.632	0.223	-35.178	-19.777	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



2 Bandedge_NVNT_ANT1_802_11b_2412



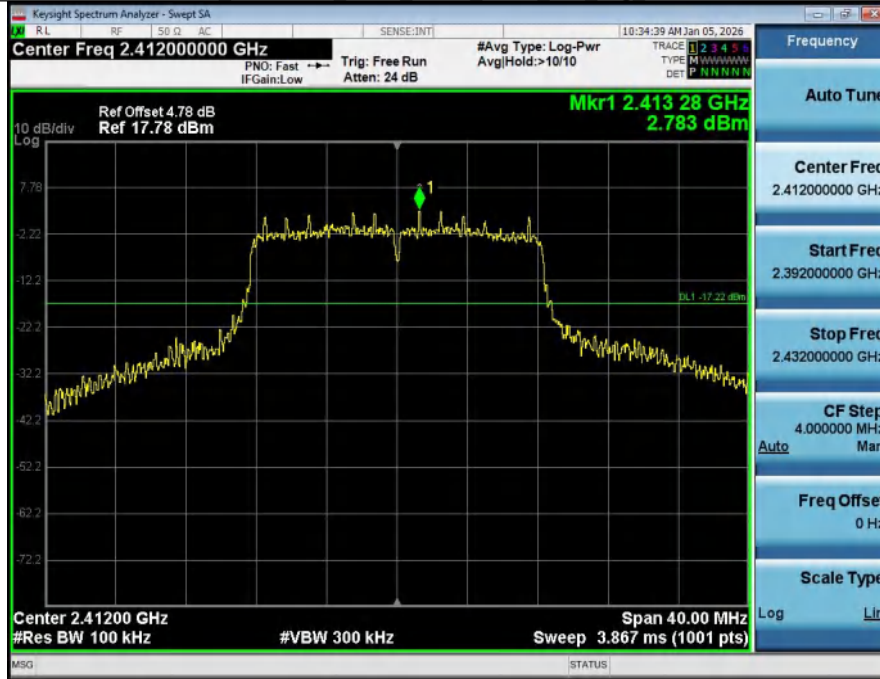
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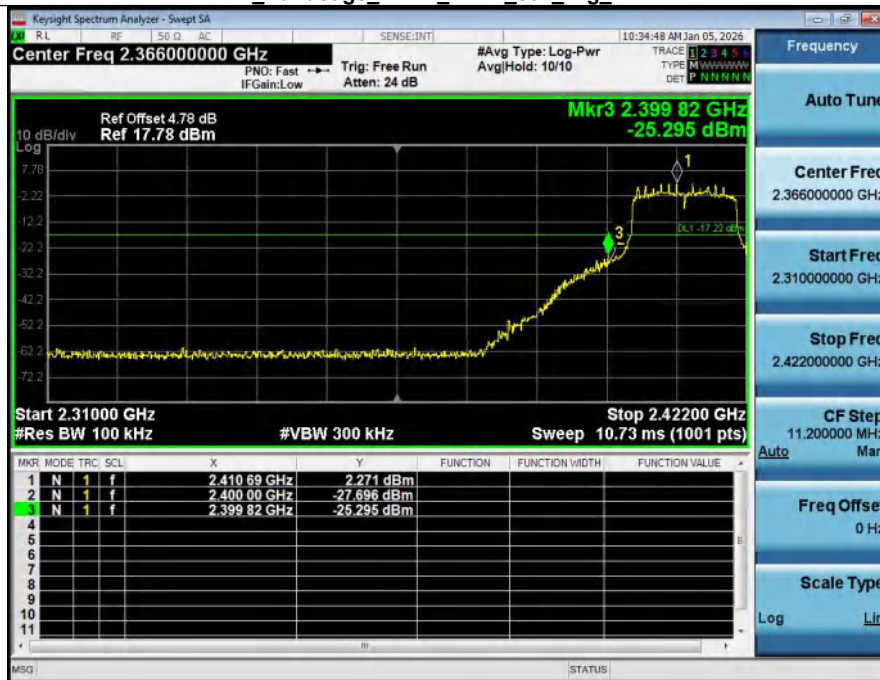
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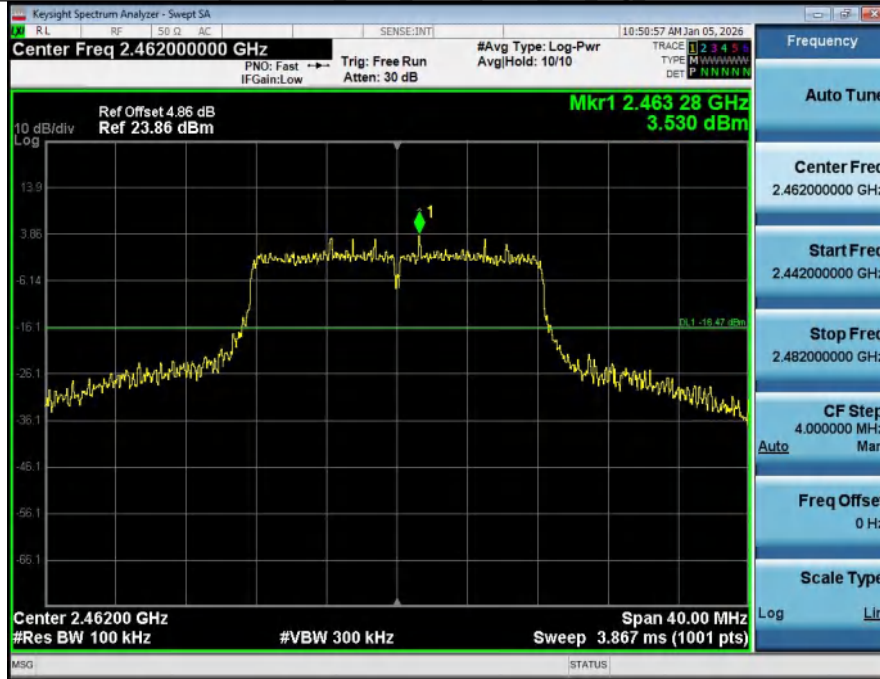
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2 Bandedge NVNT_ANT1_802_11g_2412



1 Reference Level NVNT_ANT1_802_11g_2462



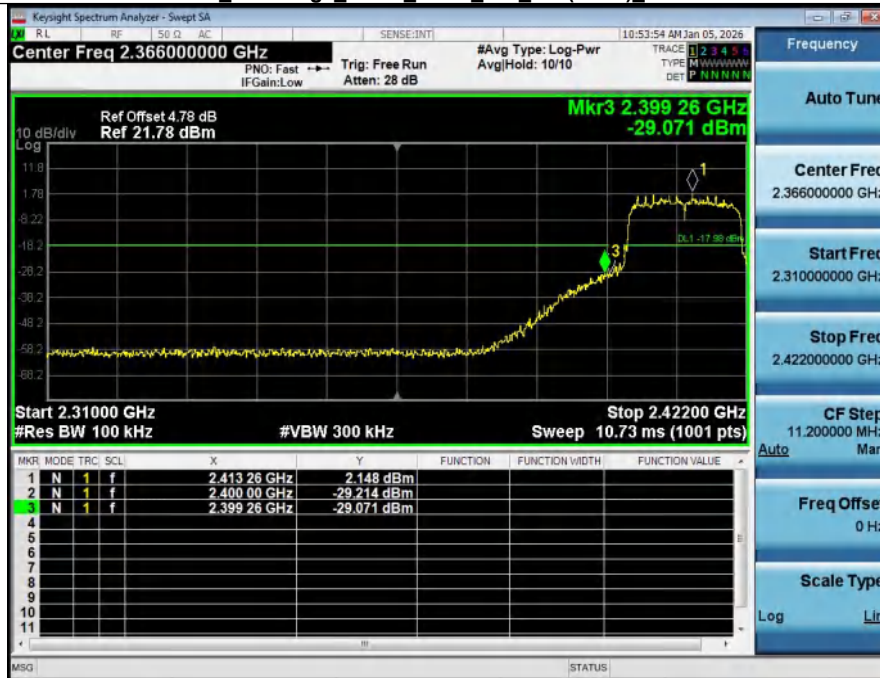
2 Bandedge NVNT_ANT1_802_11g_2462



1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



2 Bandedge NVNT_ANT1_802_11n(HT20)_2412



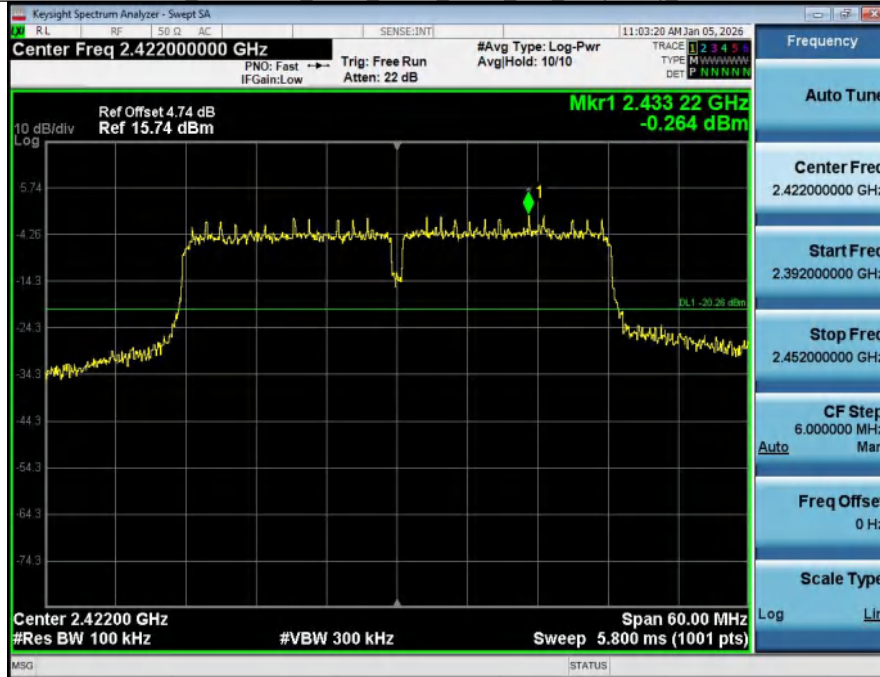
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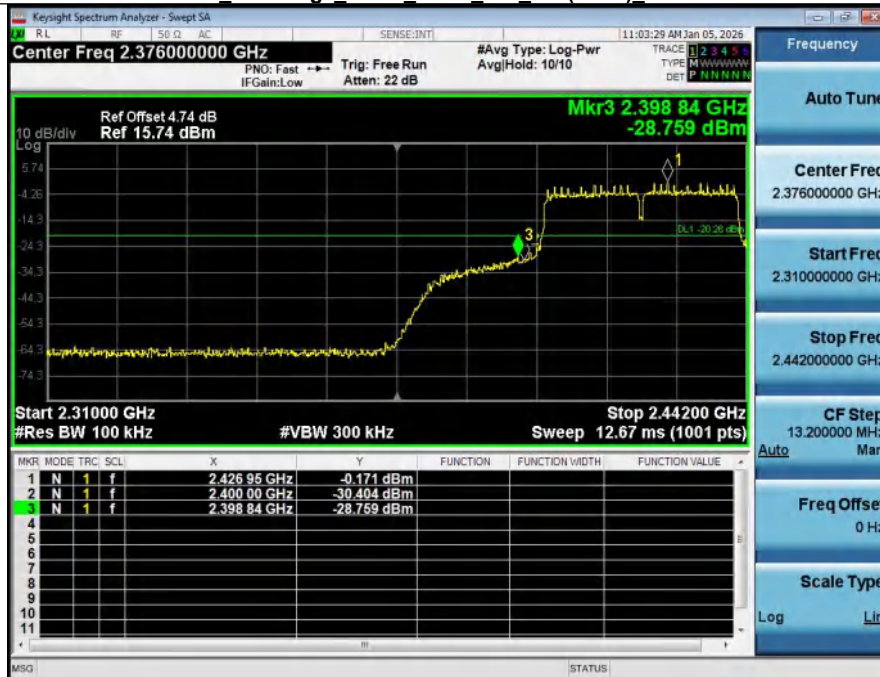
2 Bandedge NVNT_ANT1_802_11n(HT20)_2462



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



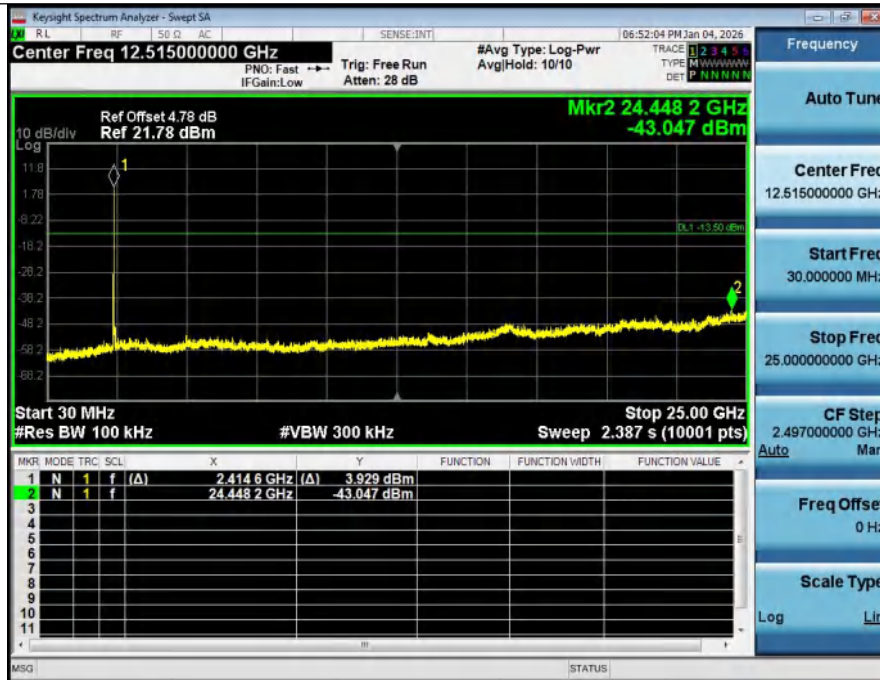
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24448.163	6.502	-43.047	-13.498	Pass
NVNT	ANT1	802.11b	2437.00	24955.054	7.493	-43.294	-12.507	Pass
NVNT	ANT1	802.11b	2462.00	24955.054	7.219	-42.402	-12.781	Pass
NVNT	ANT1	802.11g	2412.00	24970.036	2.783	-47.278	-17.217	Pass
NVNT	ANT1	802.11g	2437.00	24900.120	3.758	-41.082	-16.242	Pass
NVNT	ANT1	802.11g	2462.00	24975.030	3.530	-41.748	-16.470	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	1737.948	2.022	-29.792	-17.978	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24932.581	2.895	-46.977	-17.105	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	724.166	2.478	-36.772	-17.522	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24980.024	-0.264	-49.030	-20.264	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24972.533	0.304	-48.438	-19.696	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24920.096	0.223	-49.248	-19.777	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



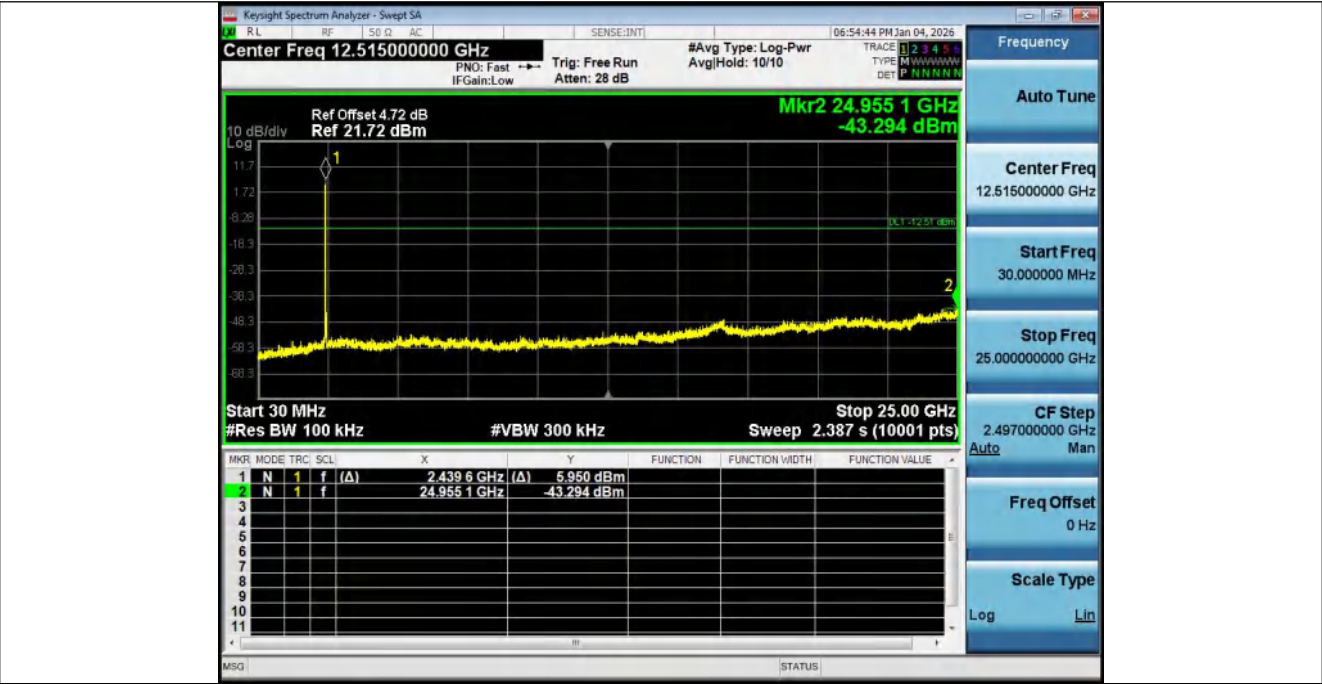
2_Spurious_Emission_NVNT_ANT1_802_11b_2412



1 Reference Level NVNT_ANT1_802_11b_2437



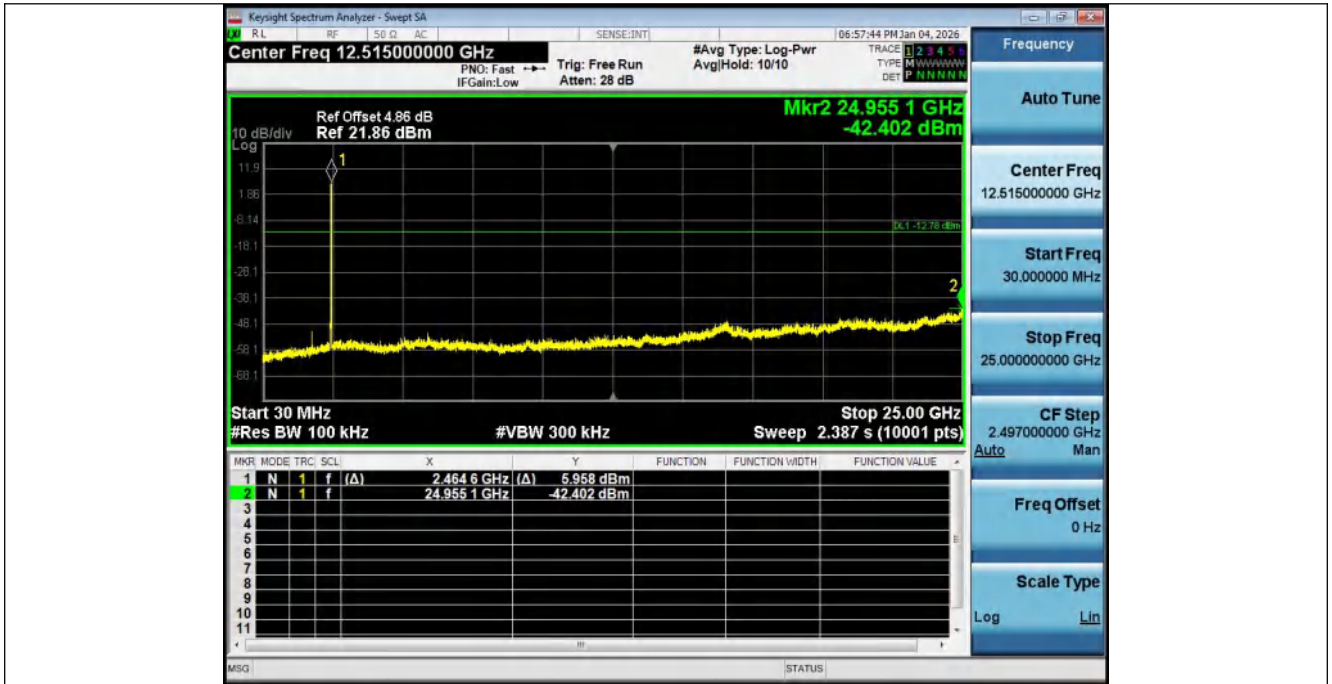
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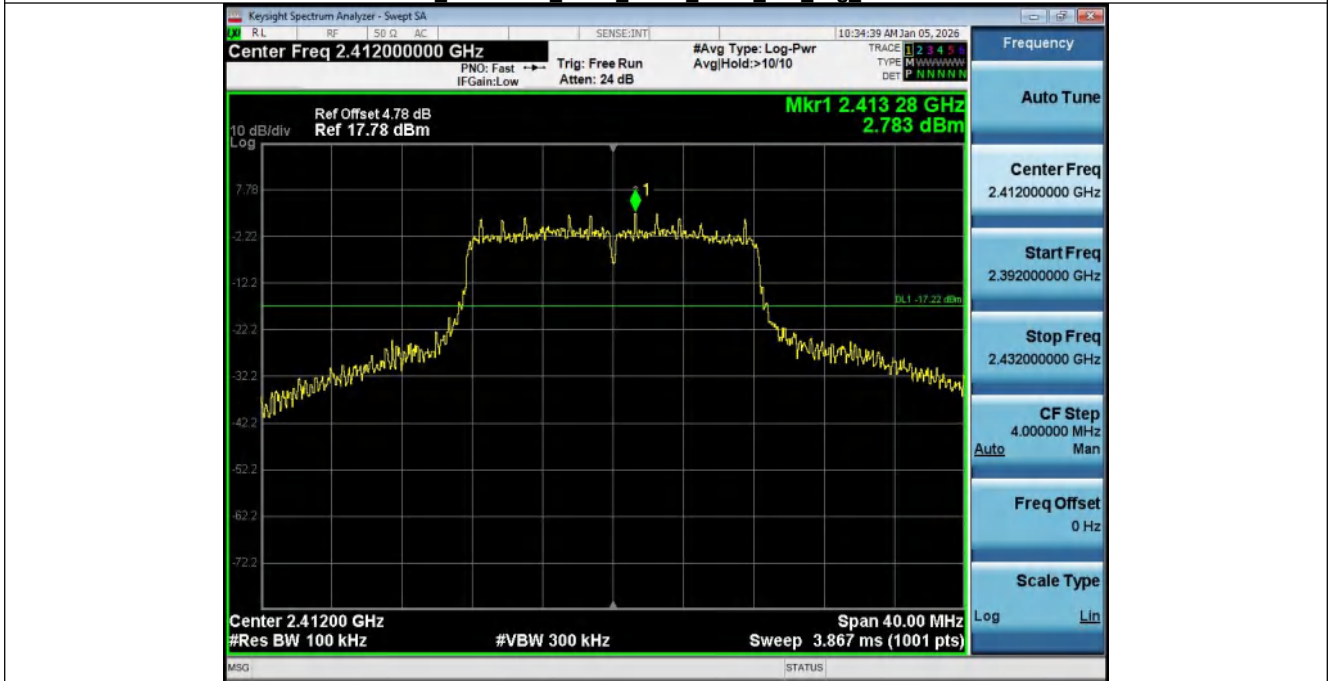
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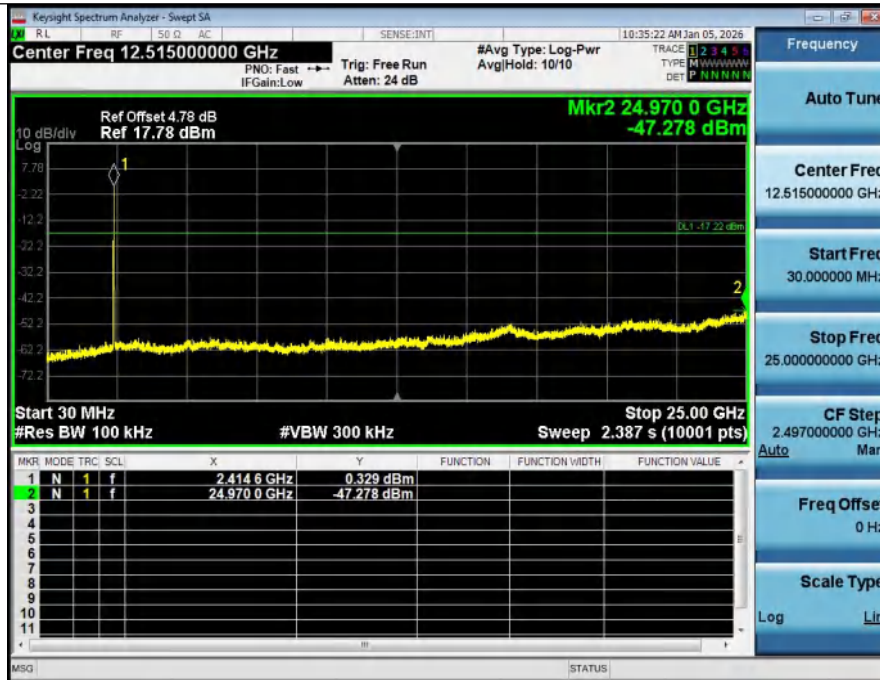
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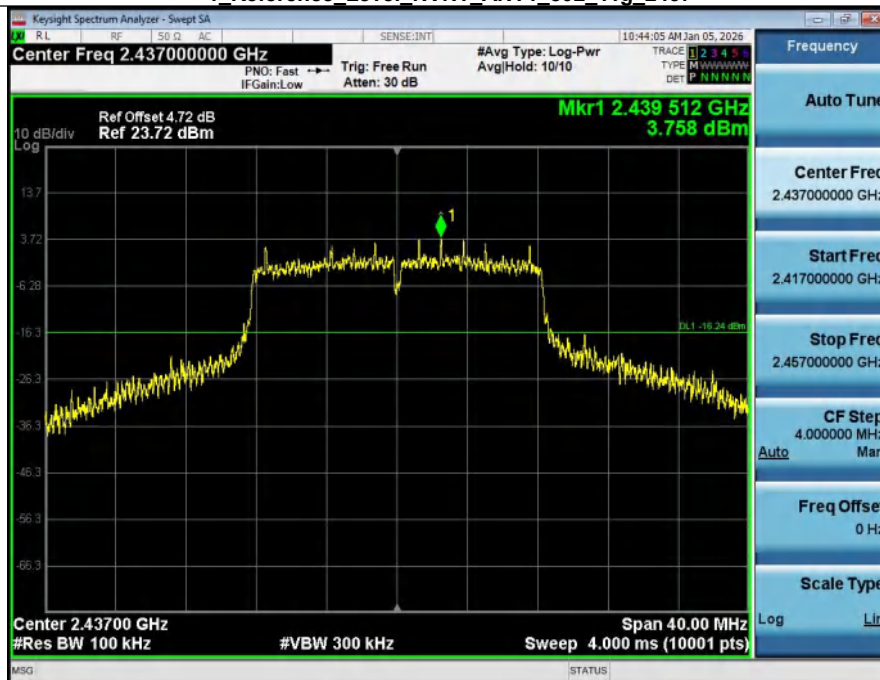
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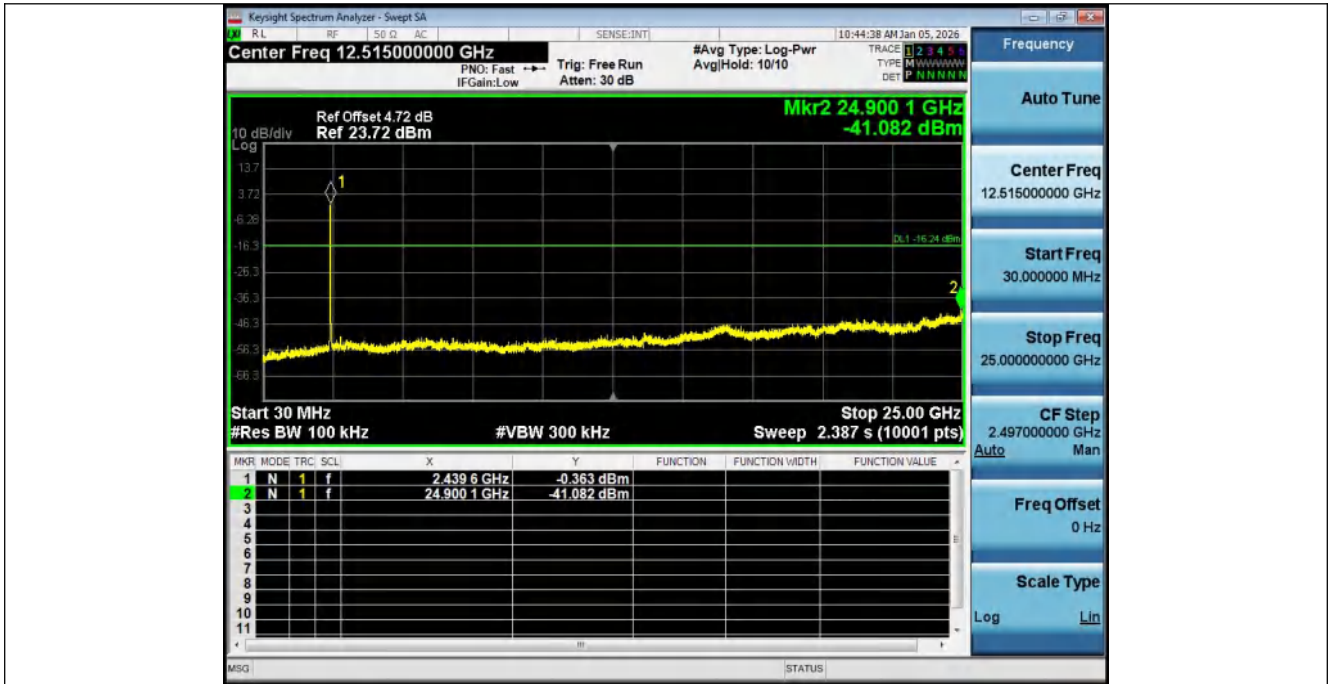
2 Spurious Emission NVNT_ANT1_802_11g_2412



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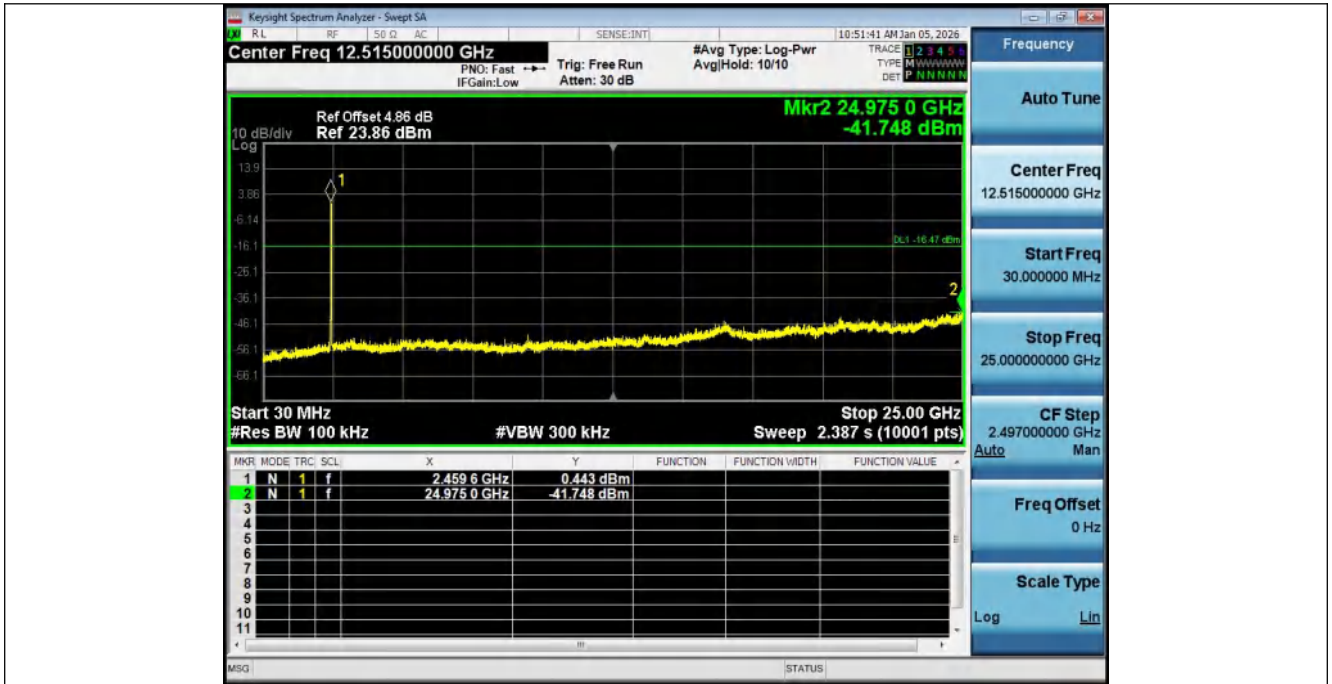
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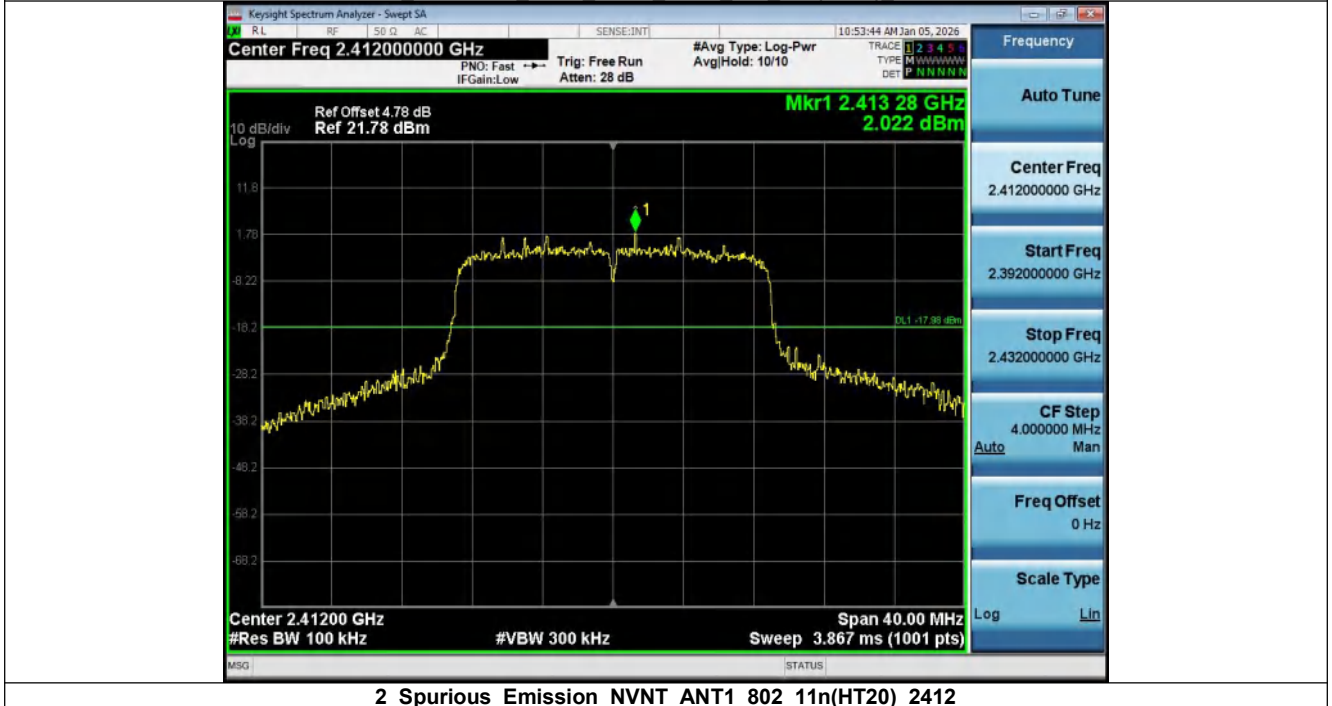
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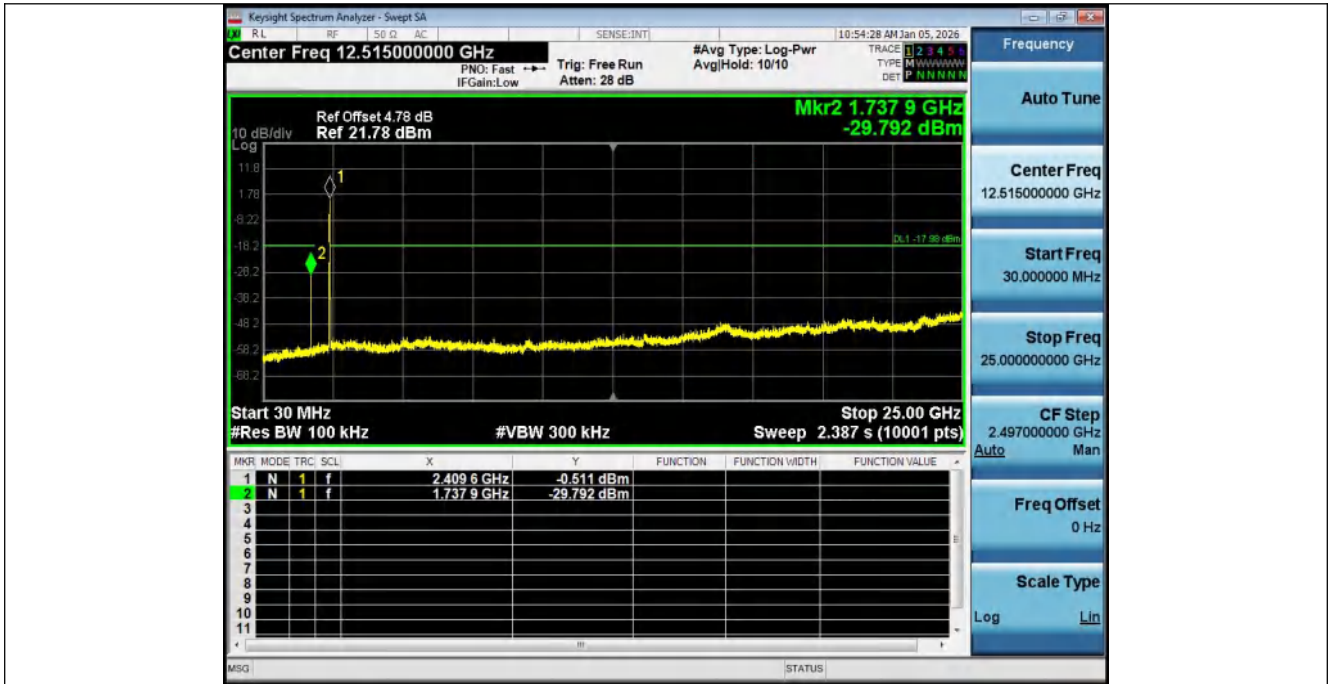
2 Spurious Emission_NVNT_ANT1_802_11g_2462



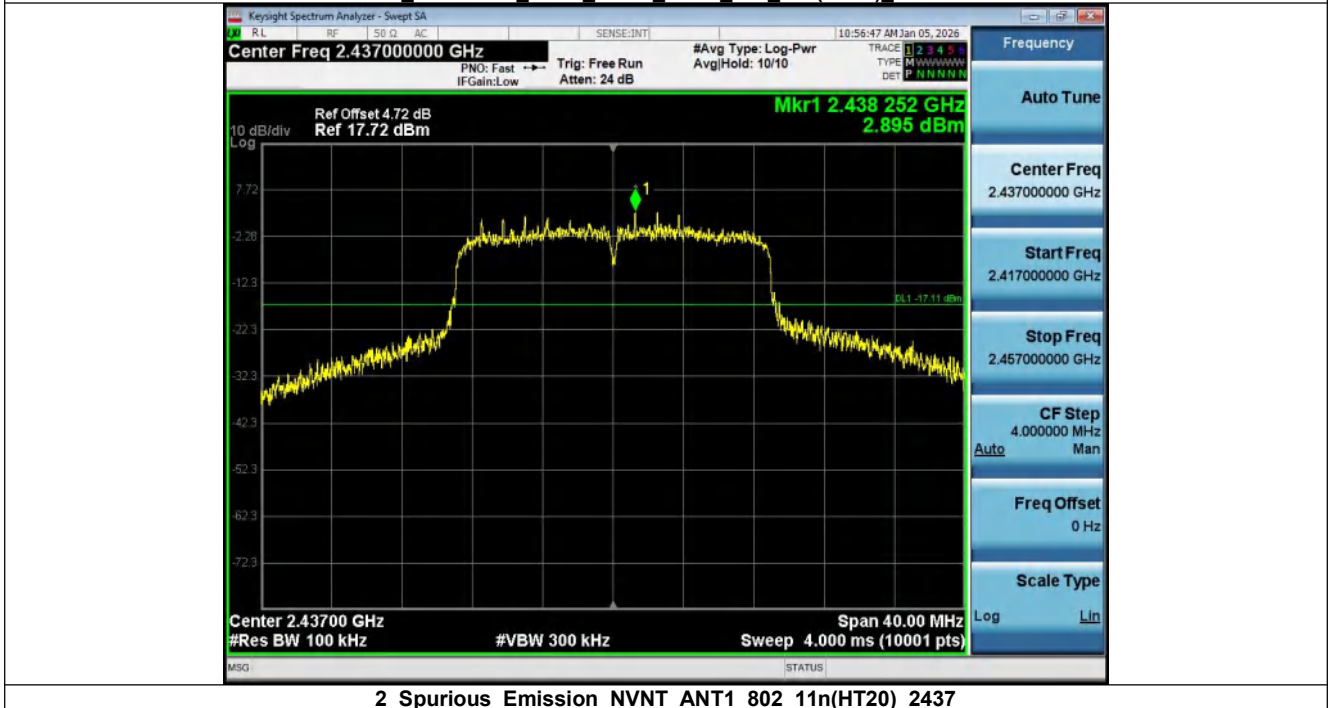
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



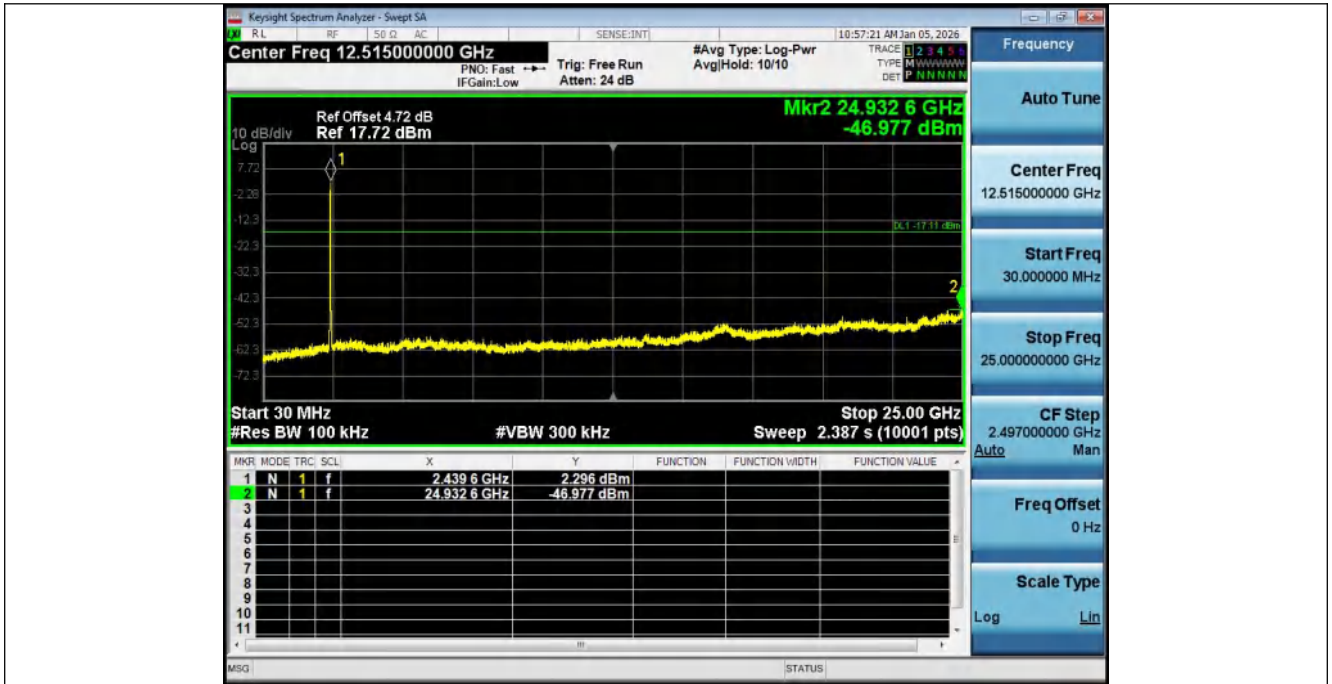
2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2412



1 Reference Level_NVNT_ANT1_802_11n(HT20)_2437



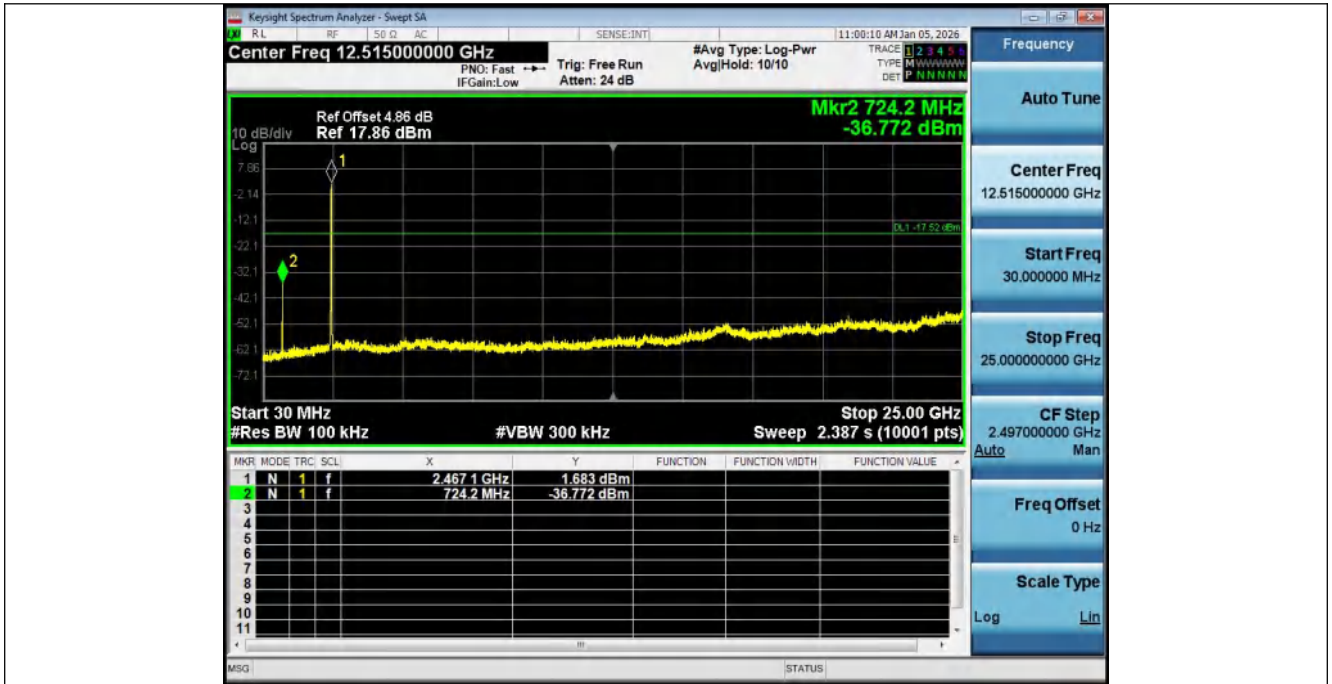
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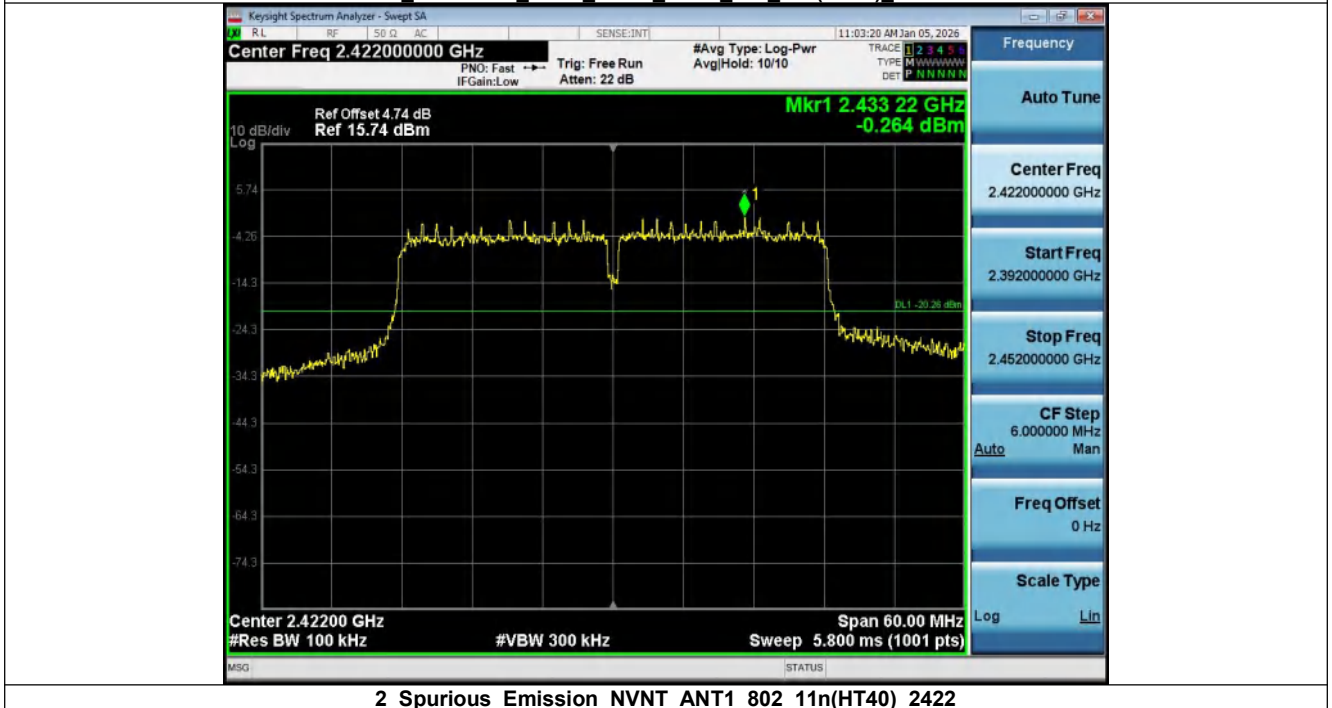
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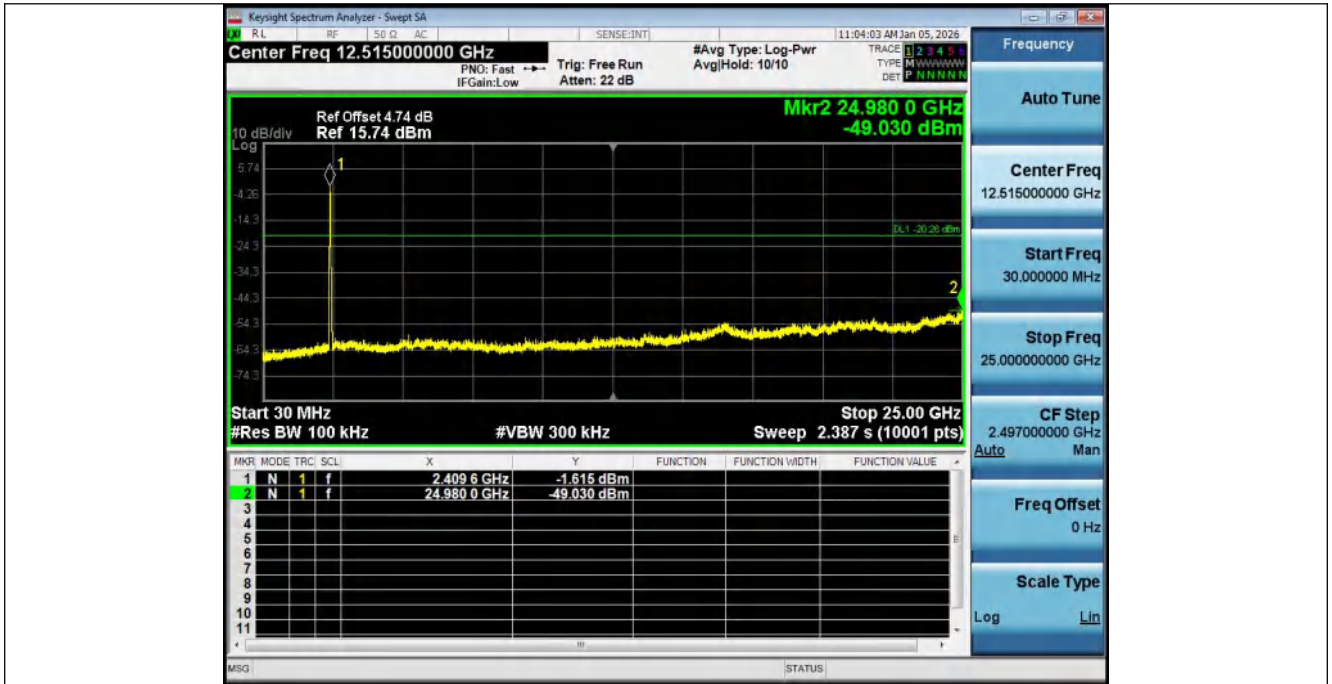
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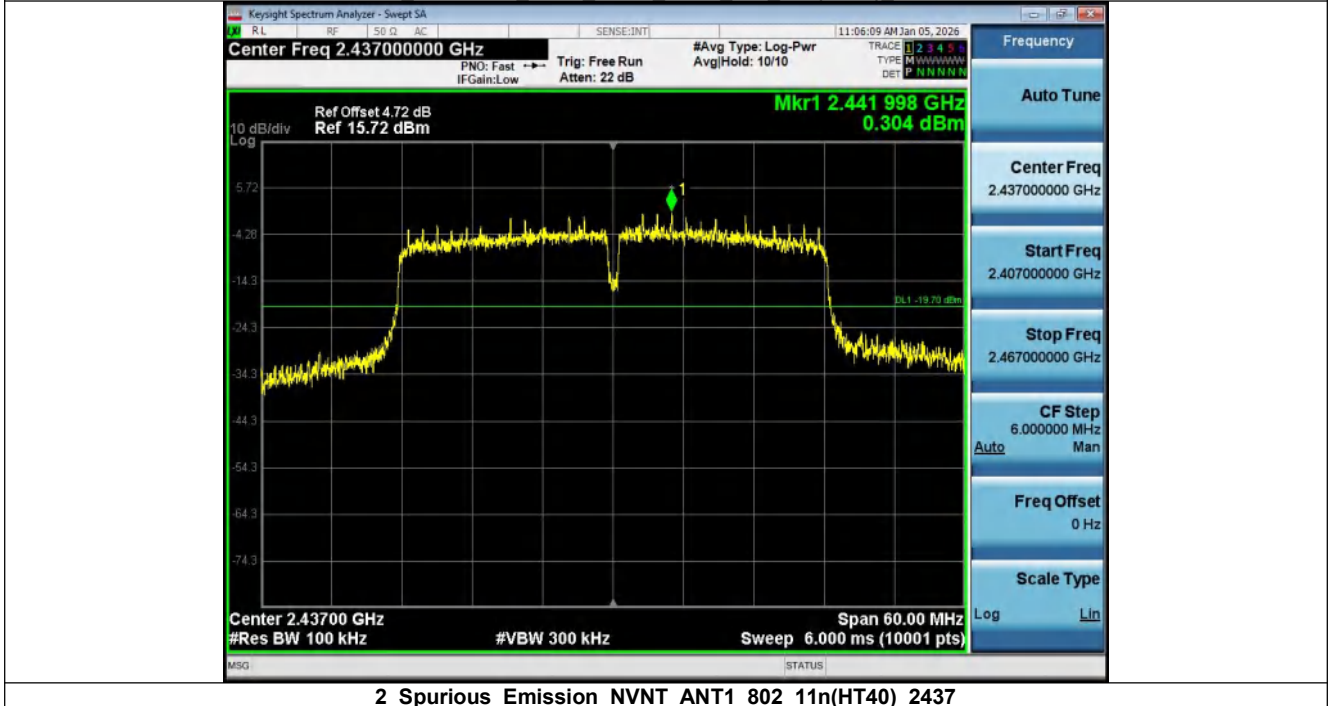
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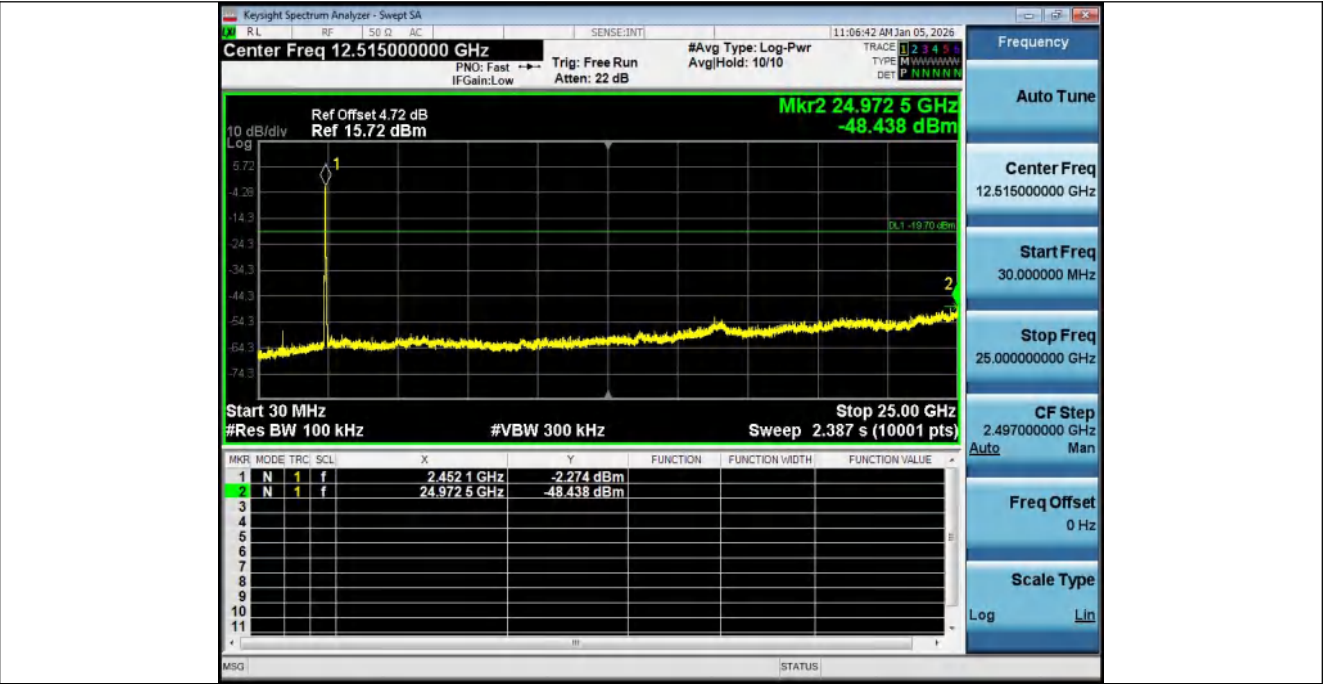
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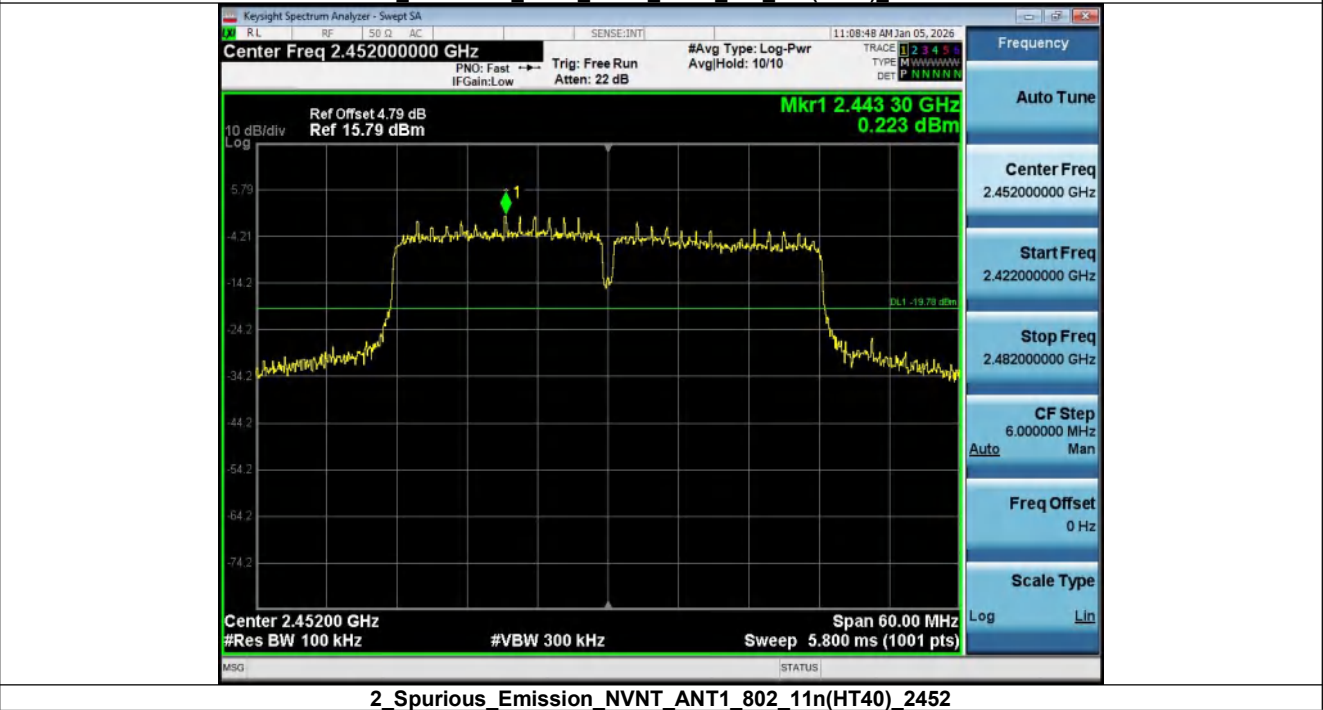
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2437



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

