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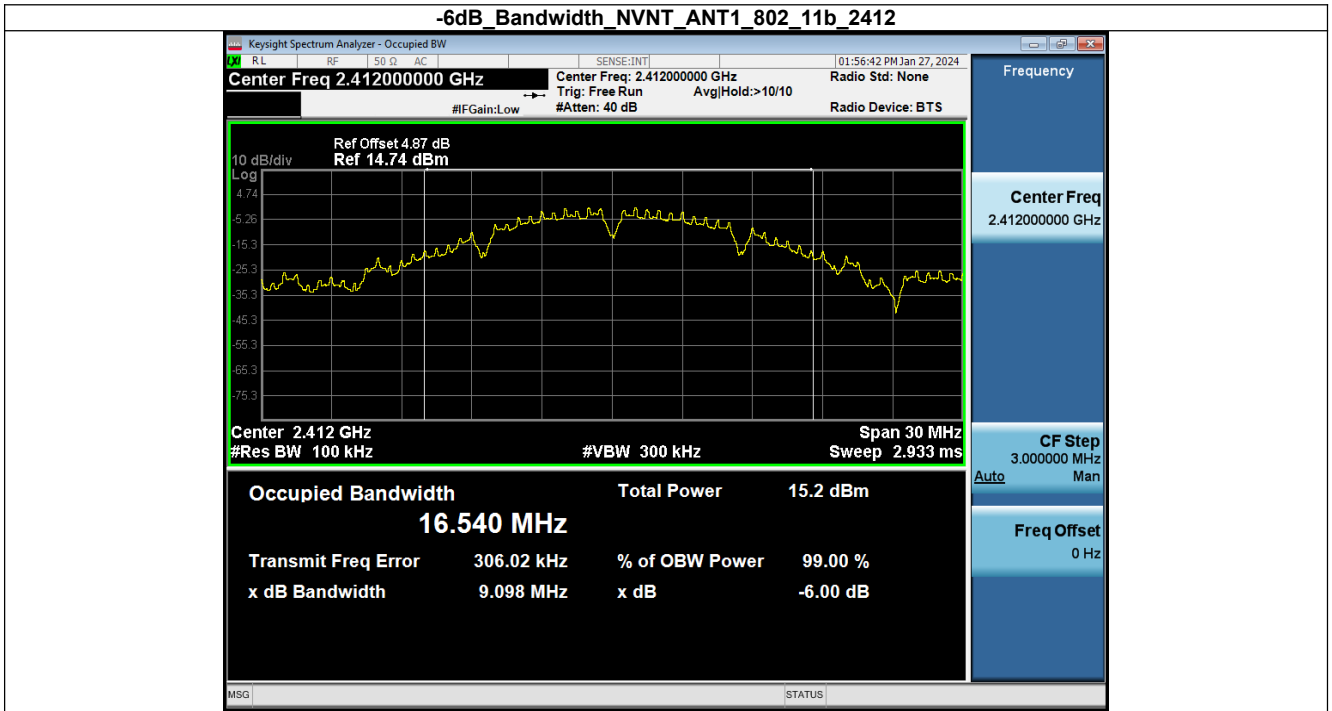
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FCC ID: 2A5I9-ABS-25W

FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

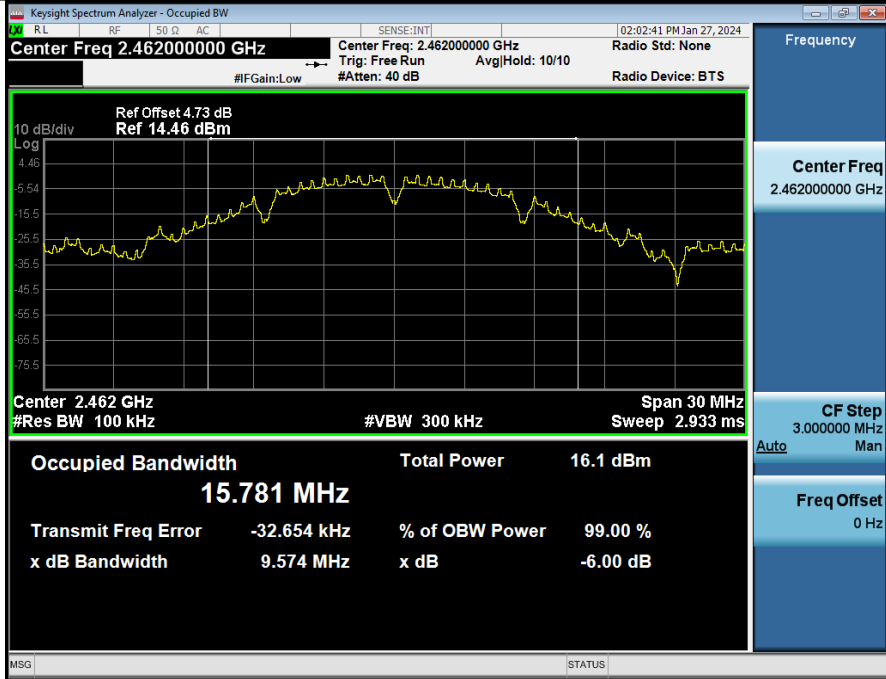
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.10	500	Pass
NVNT	ANT1	802.11b	2437.00	8.62	500	Pass
NVNT	ANT1	802.11b	2462.00	9.57	500	Pass
NVNT	ANT1	802.11g	2412.00	15.50	500	Pass
NVNT	ANT1	802.11g	2437.00	16.34	500	Pass
NVNT	ANT1	802.11g	2462.00	15.72	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.12	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.02	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	15.94	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	33.89	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.31	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.19	500	Pass



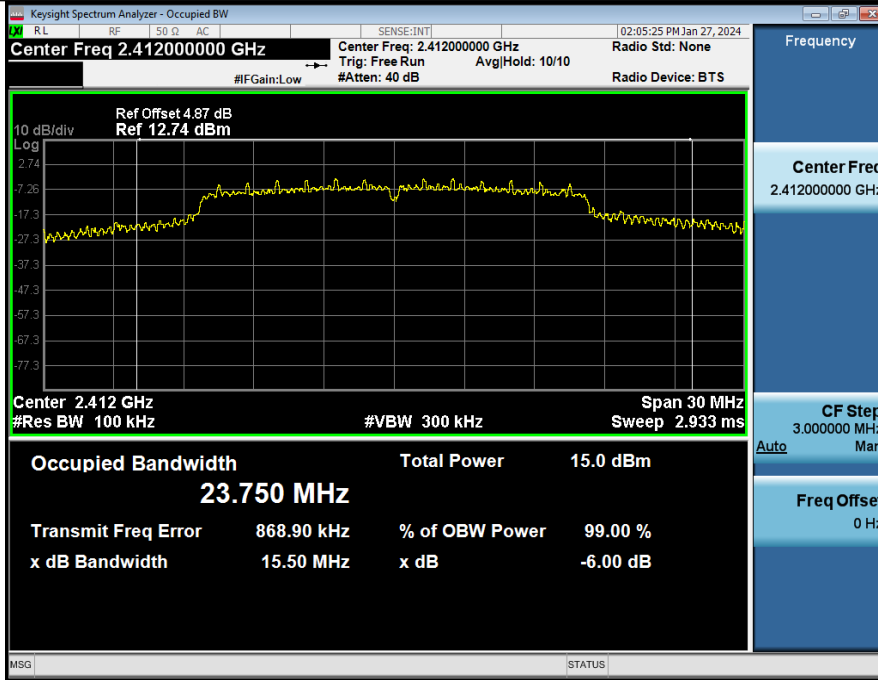
-6dB Bandwidth_NVNT_ANT1_802_11b_2437



-6dB Bandwidth_NVNT_ANT1_802_11b_2462



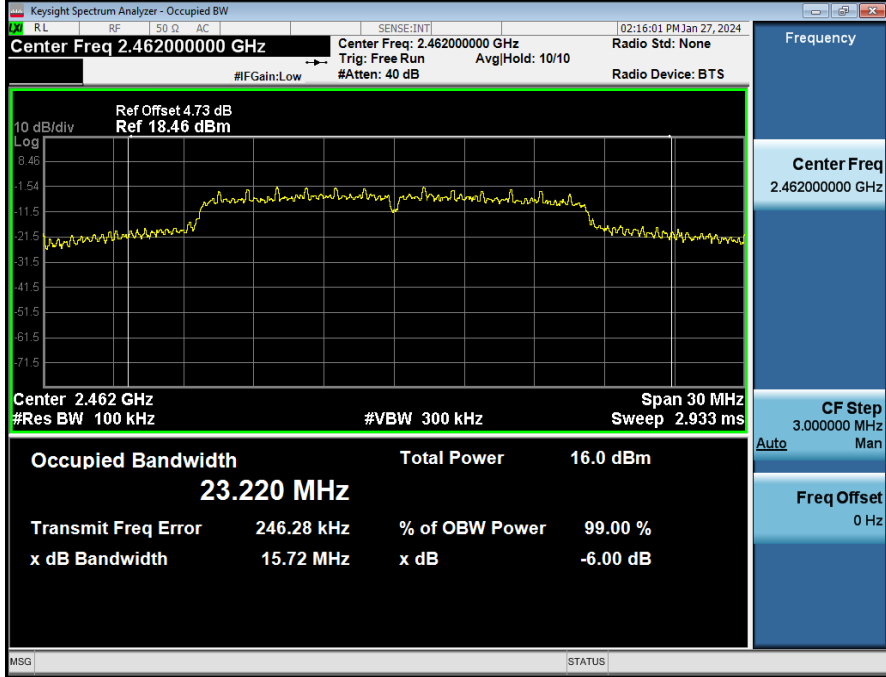
-6dB Bandwidth_NVNT_ANT1_802_11g_2412



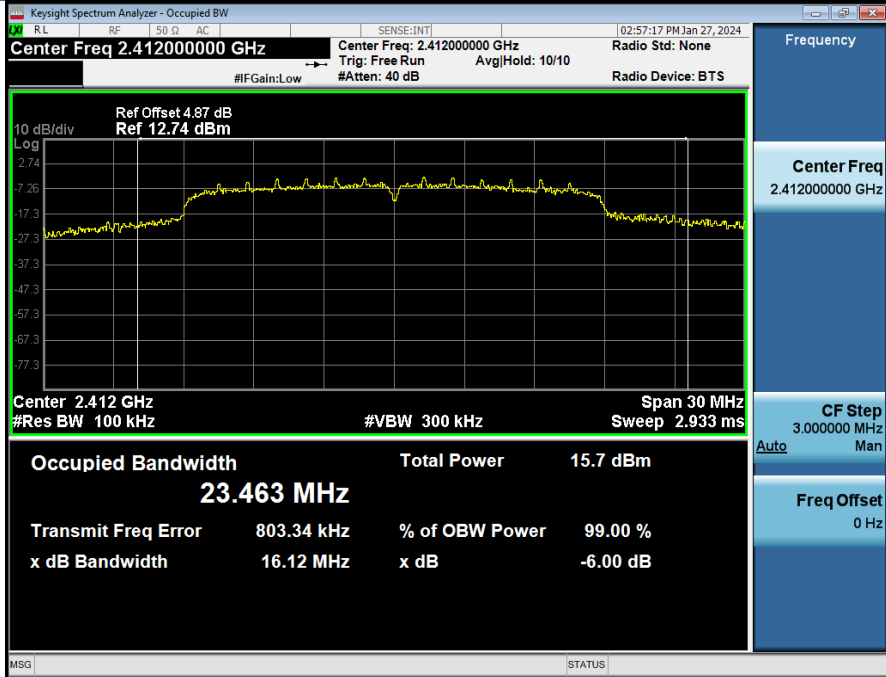
-6dB Bandwidth_NVNT_ANT1_802_11g_2437



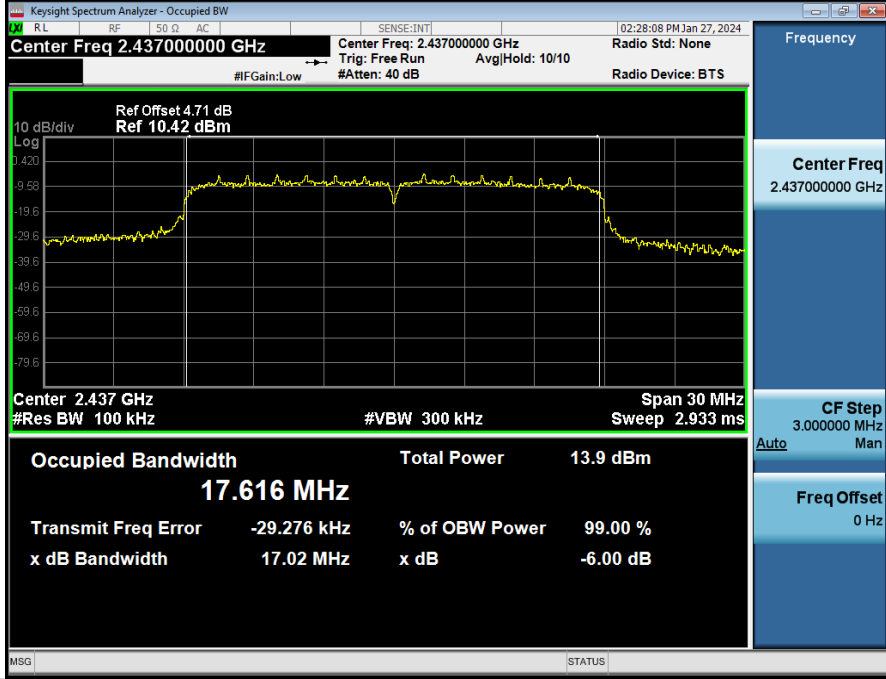
-6dB Bandwidth_NVNT_ANT1_802_11g_2462



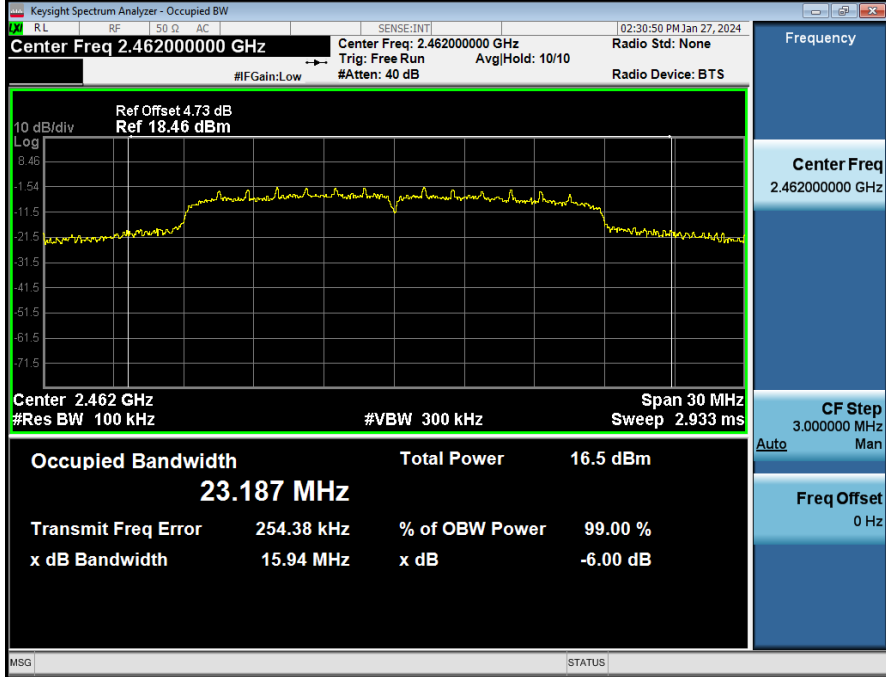
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



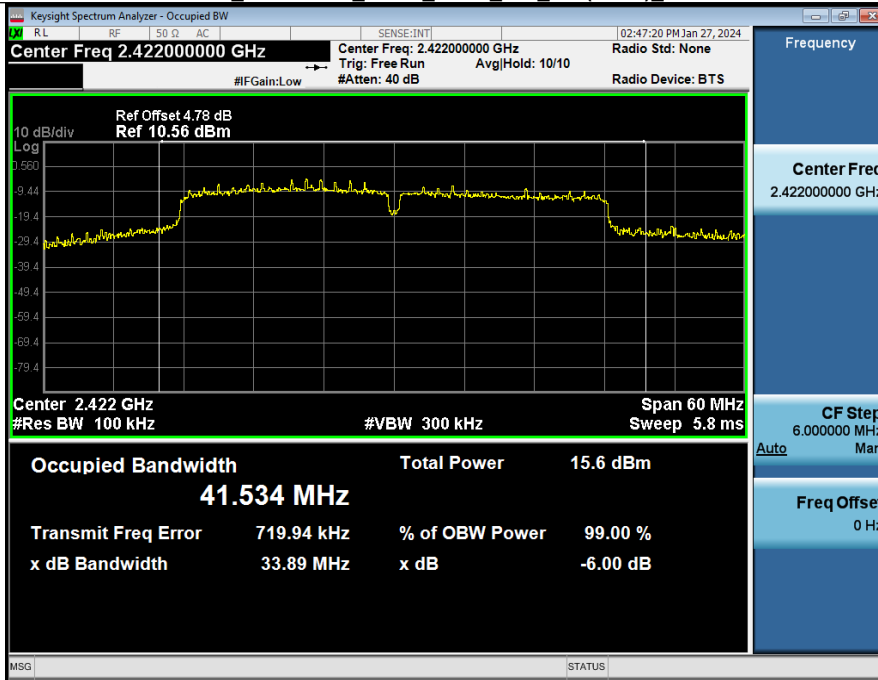
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



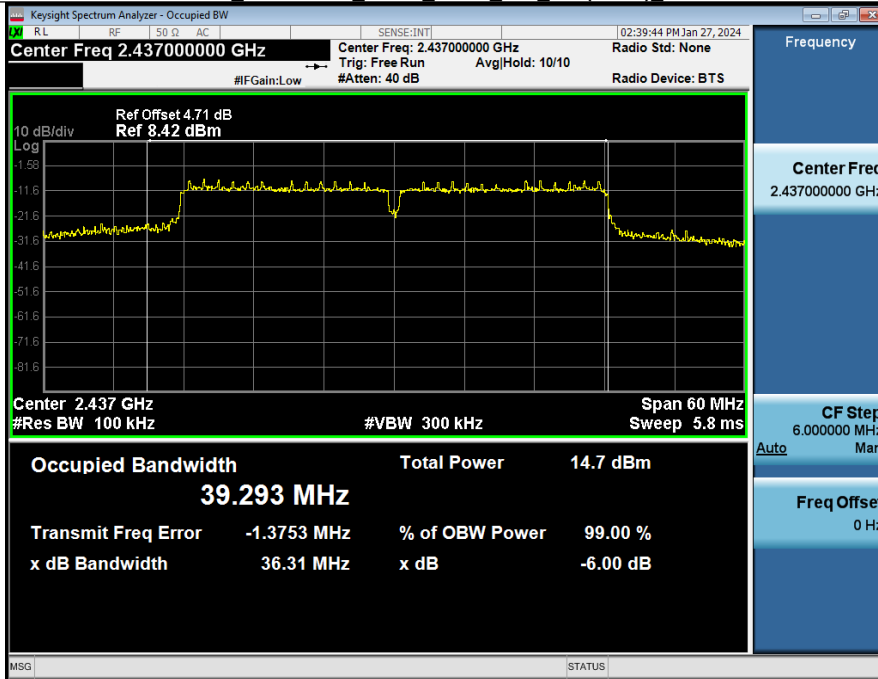
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



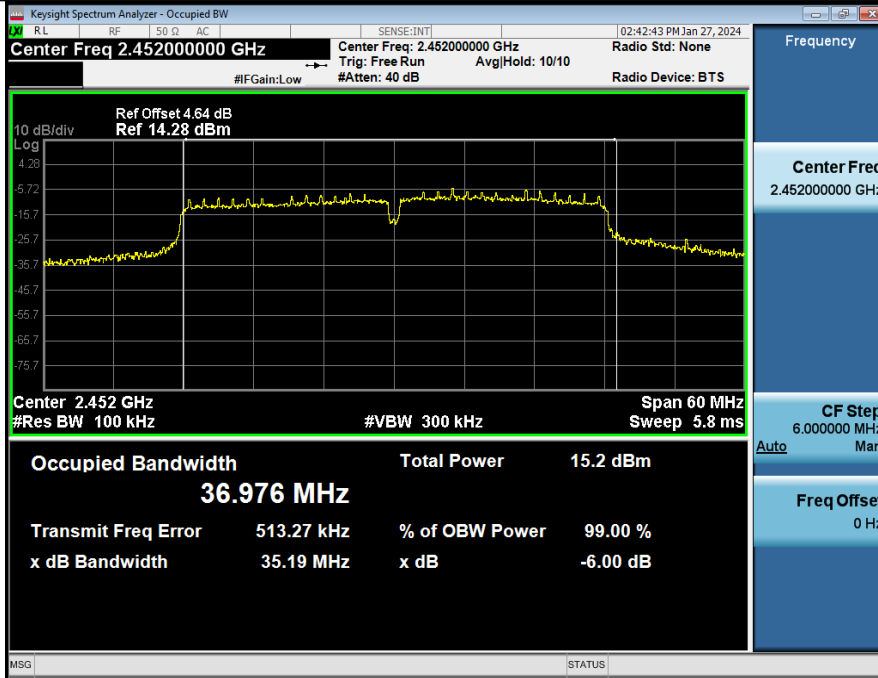
-6dB Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

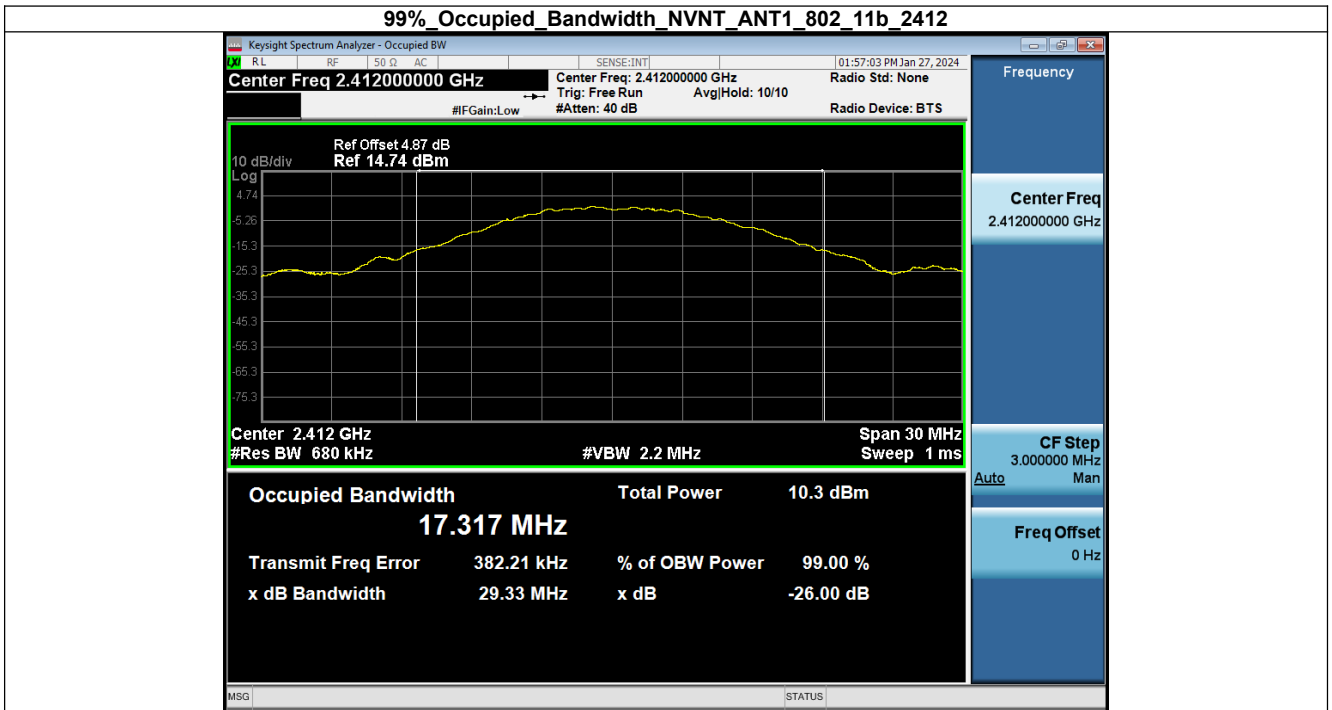


-6dB Bandwidth NVNT_ANT1_802_11n(HT40)_2452



2. 99% Occupied Bandwidth

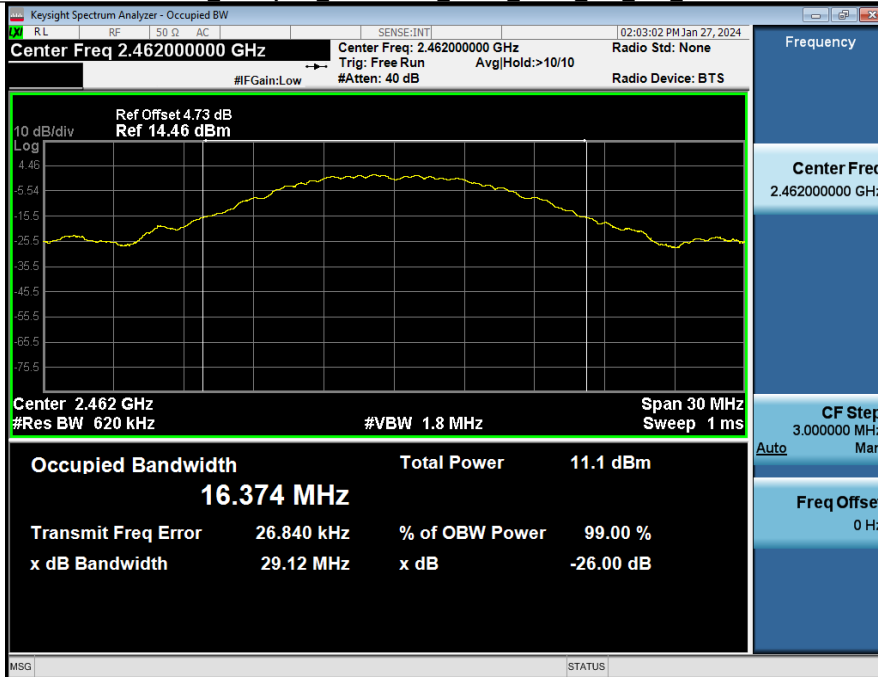
Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	17.317
NVNT	ANT1	802.11b	2437.00	12.033
NVNT	ANT1	802.11b	2462.00	16.374
NVNT	ANT1	802.11g	2412.00	23.894
NVNT	ANT1	802.11g	2437.00	17.561
NVNT	ANT1	802.11g	2462.00	23.407
NVNT	ANT1	802.11n(HT20)	2412.00	23.595
NVNT	ANT1	802.11n(HT20)	2437.00	18.181
NVNT	ANT1	802.11n(HT20)	2462.00	23.163
NVNT	ANT1	802.11n(HT40)	2422.00	41.321
NVNT	ANT1	802.11n(HT40)	2437.00	41.338
NVNT	ANT1	802.11n(HT40)	2452.00	37.899



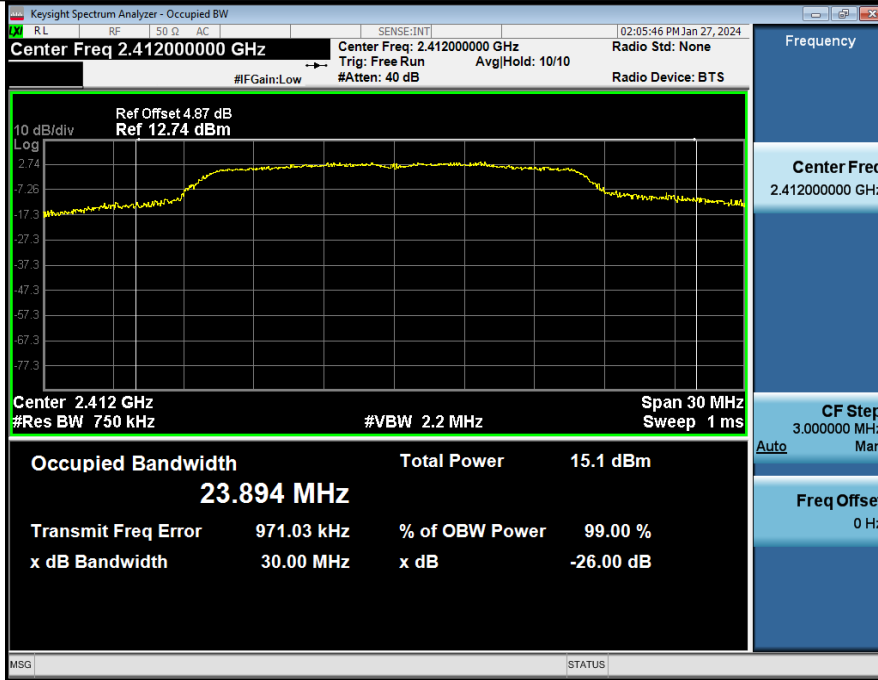
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



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



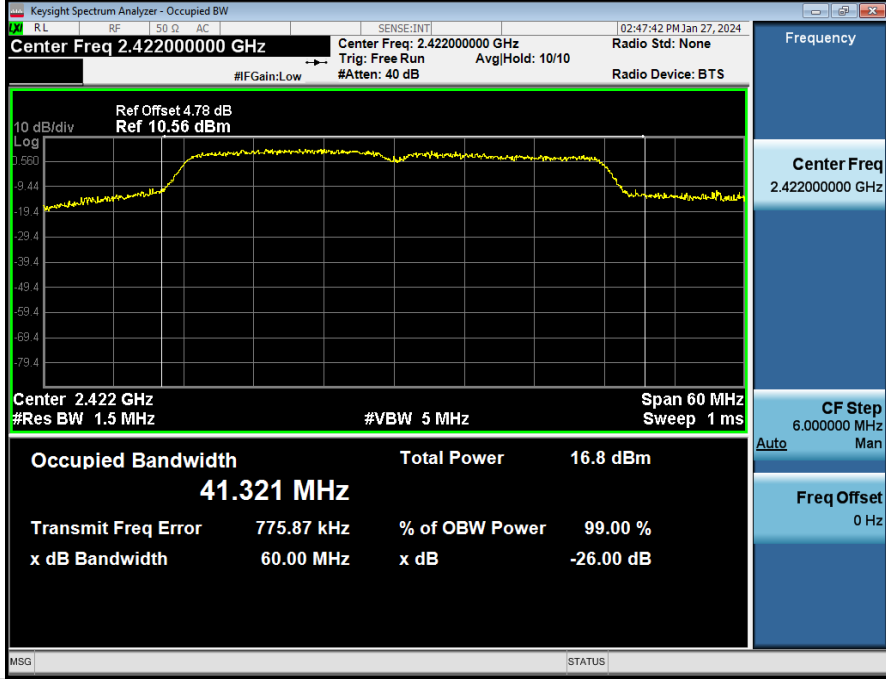
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2437



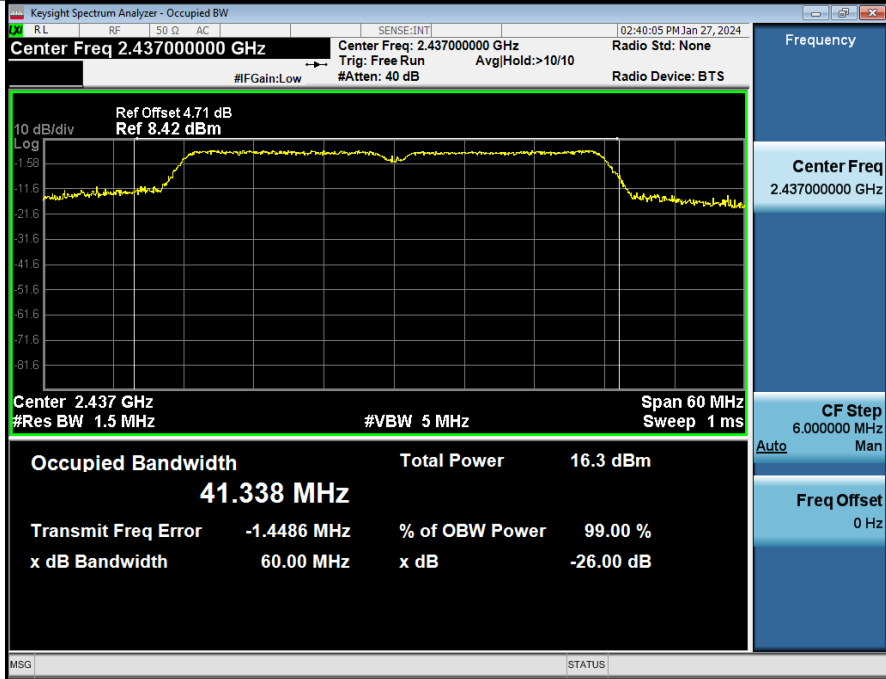
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2462



99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2422



99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2437

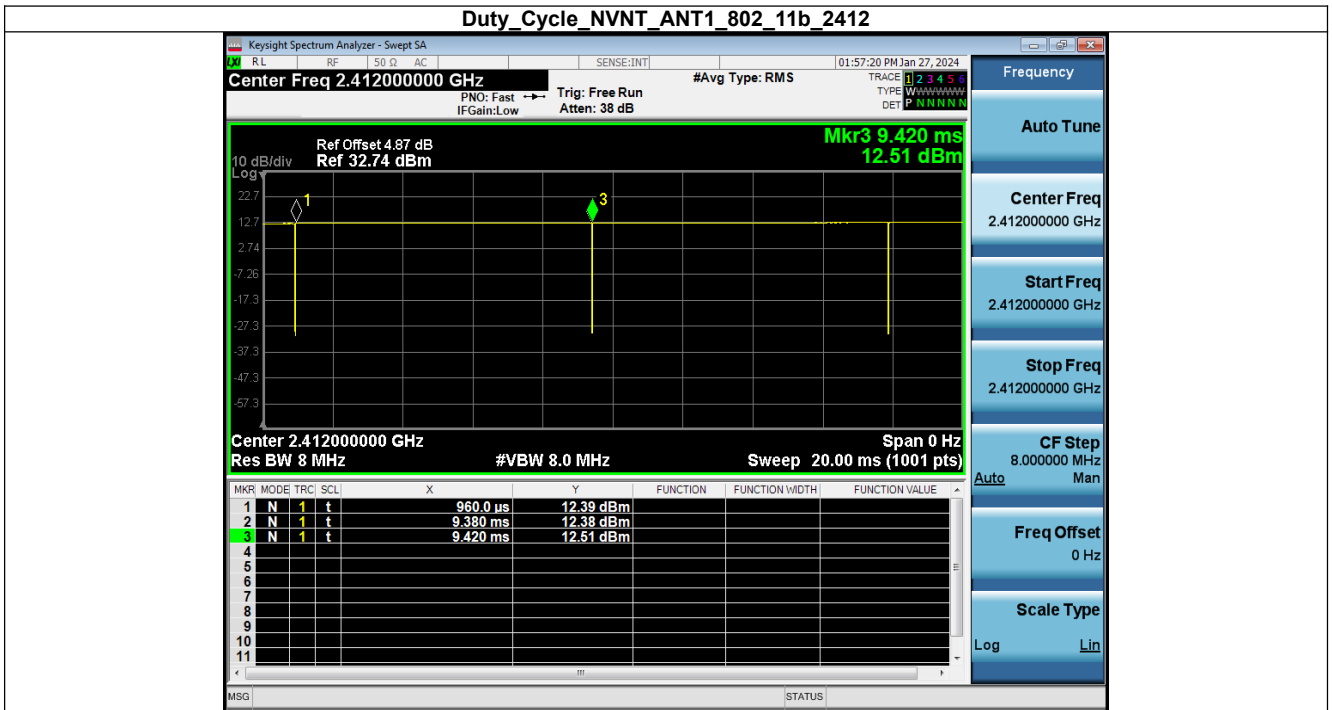


99% Occupied Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

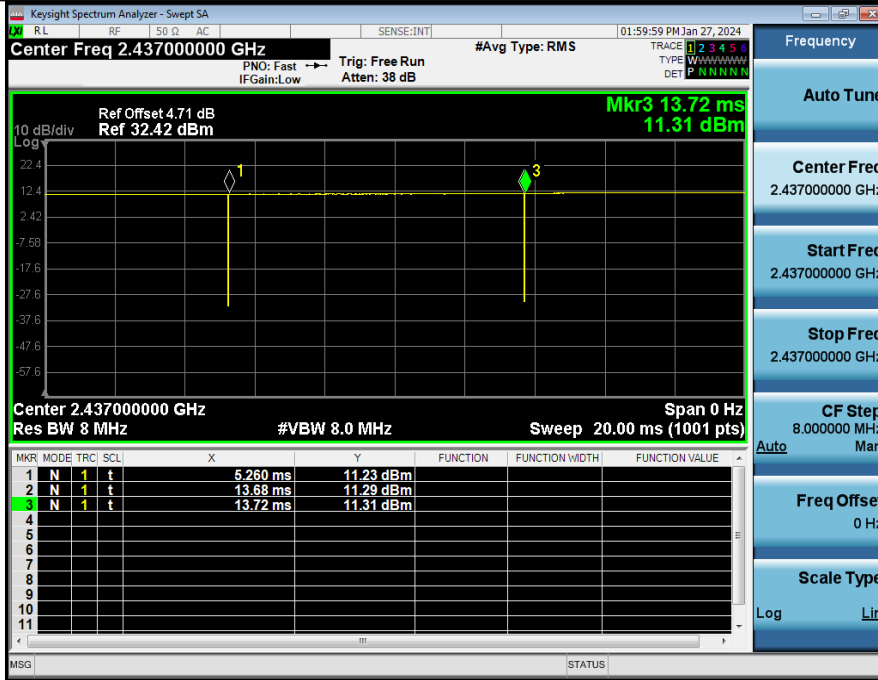


3. Duty Cycle

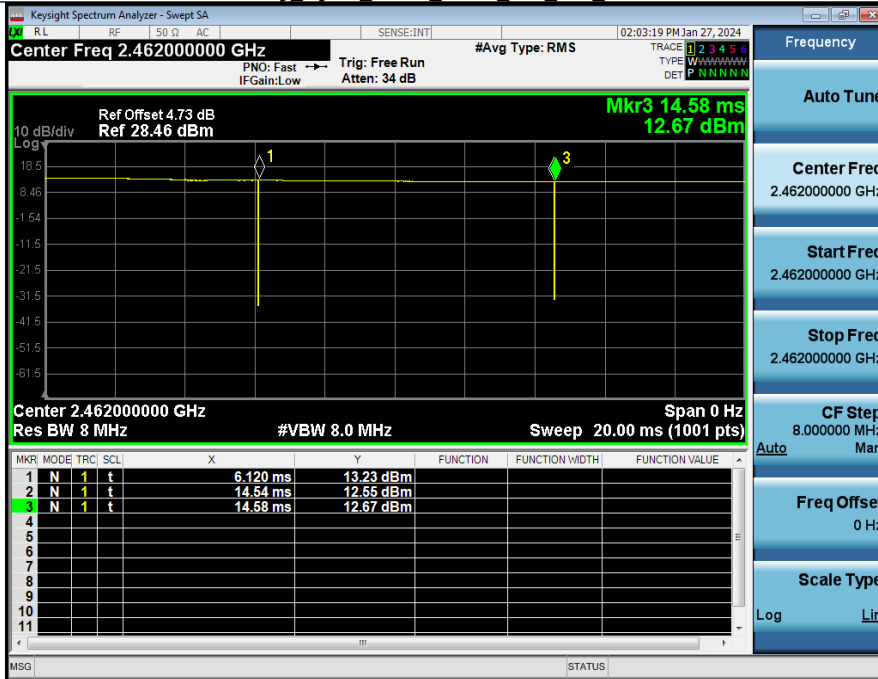
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.76	0.00
NVNT	ANT1	802.11b	2462.00	99.76	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	100	0.00
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



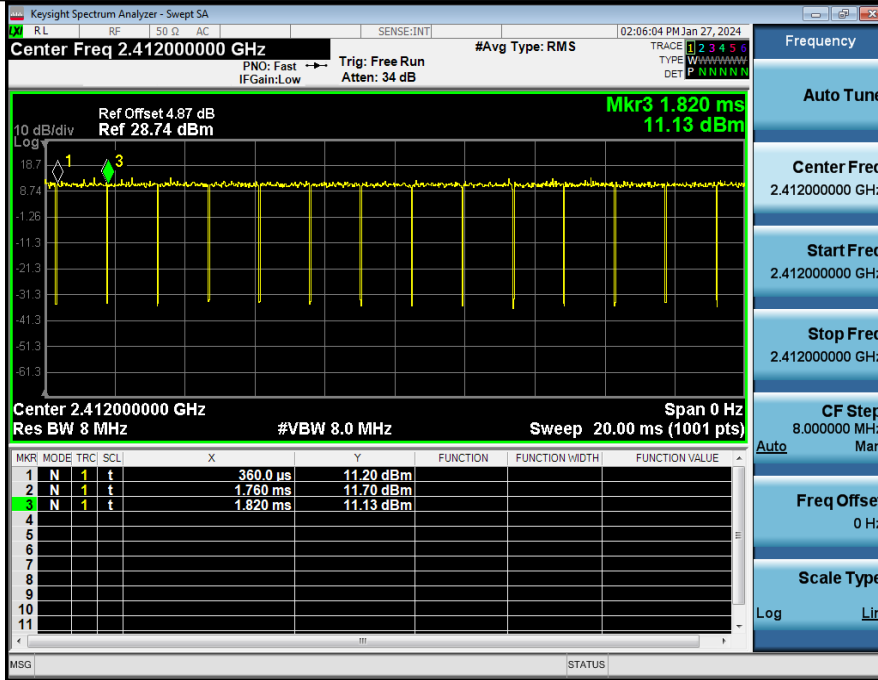
Duty Cycle NVNT ANT1_802_11b_2437



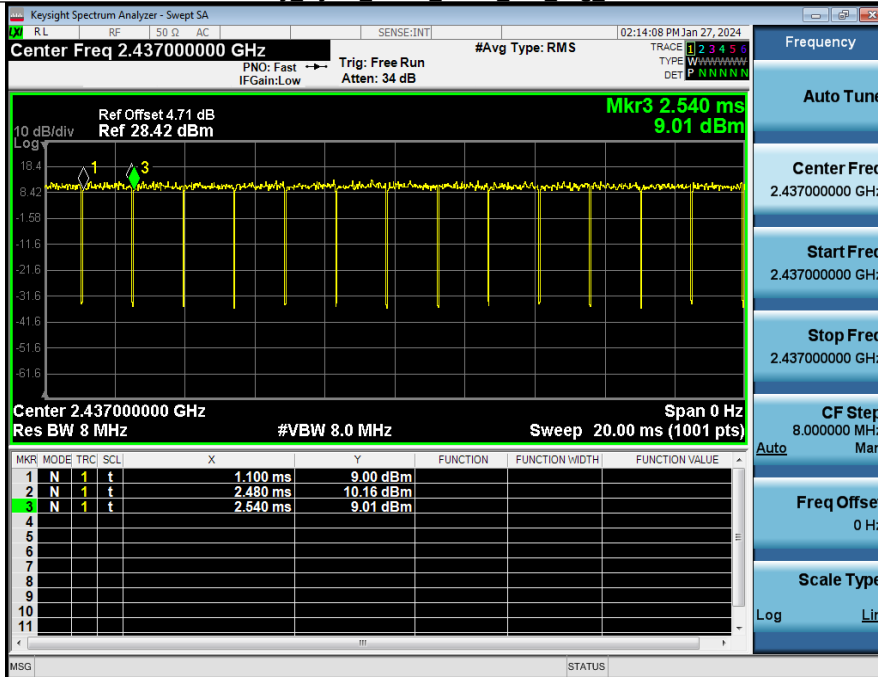
Duty Cycle NVNT ANT1_802_11b_2462



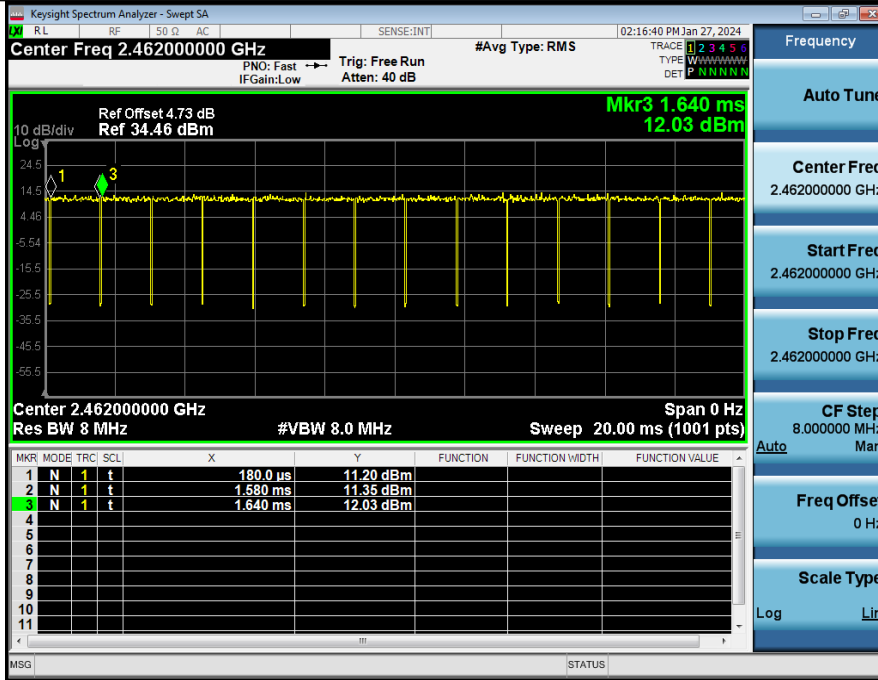
Duty Cycle NVNT ANT1_802_11g_2412



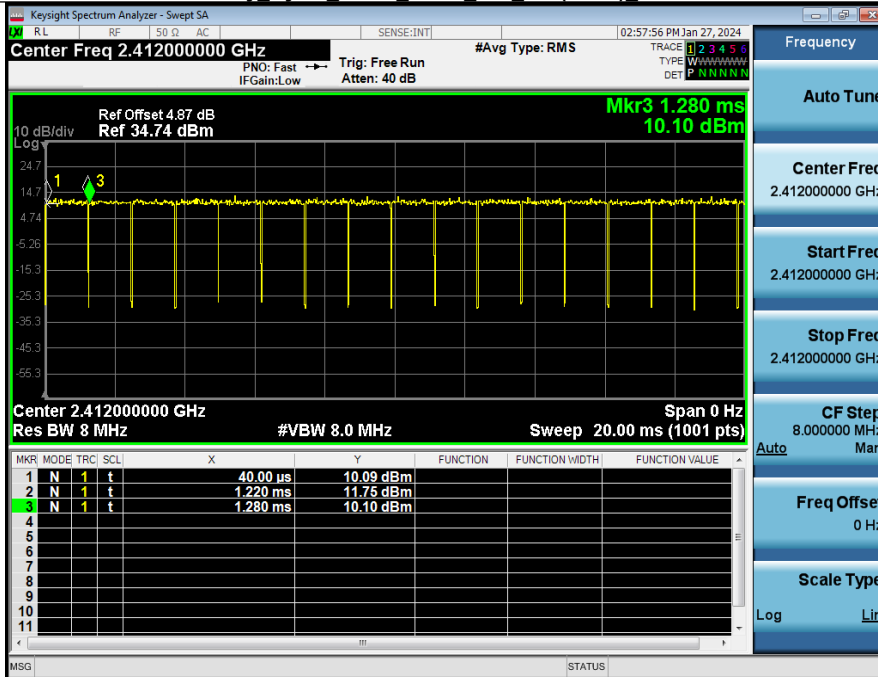
Duty Cycle NVNT ANT1_802_11g_2437



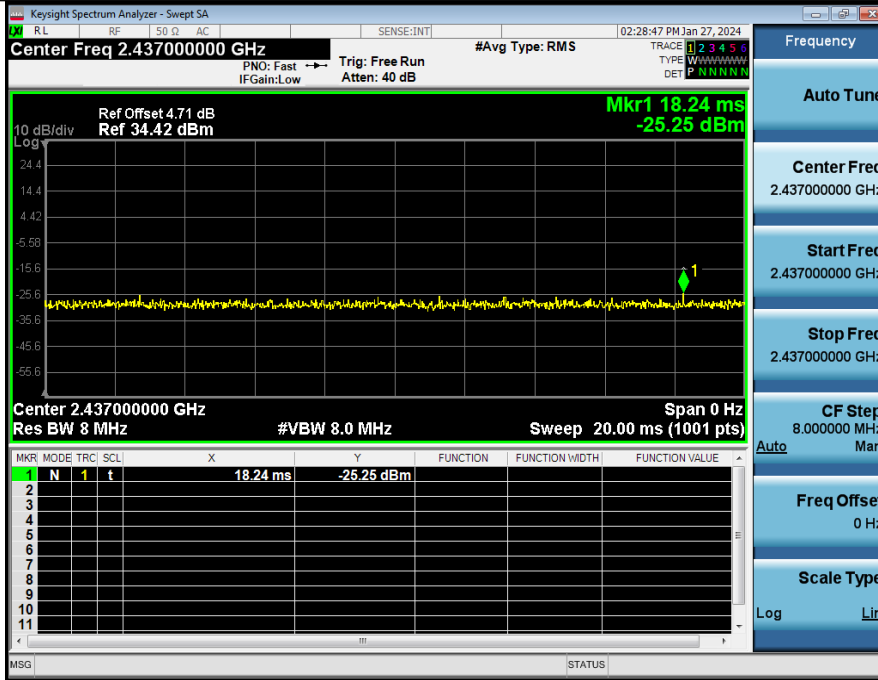
Duty Cycle NVNT_ANT1_802_11g_2462



Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



Frequency

Auto Tune

Center Freq
2.437000000 GHz

Start Freq
2.437000000 GHz

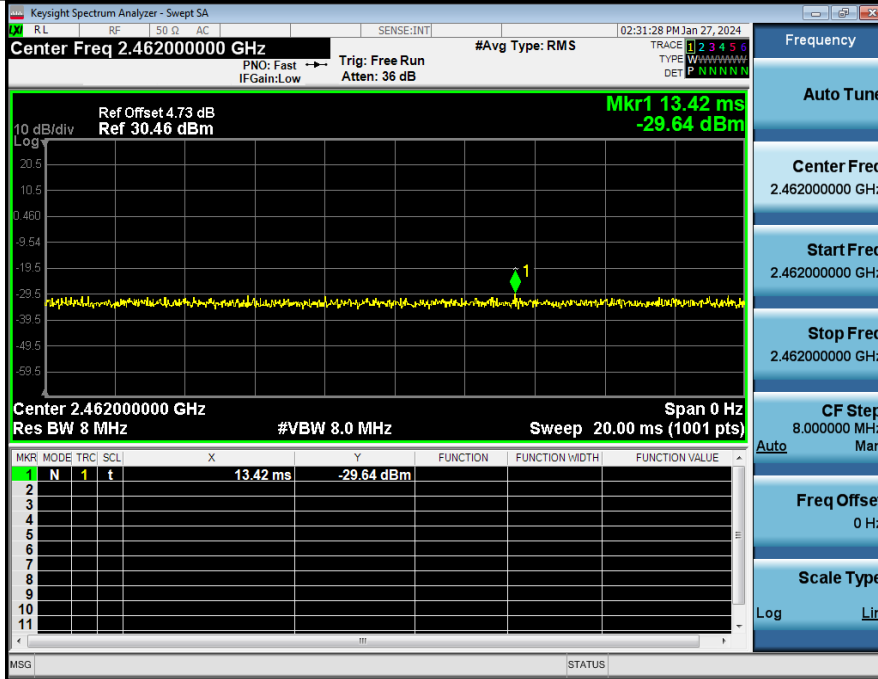
Stop Freq
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CF Step
8.000000 MHz
Auto Man

Freq Offset
0 Hz

Scale Type
Log Lin

Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



Frequency

Auto Tune

Center Freq
2.462000000 GHz

Start Freq
2.462000000 GHz

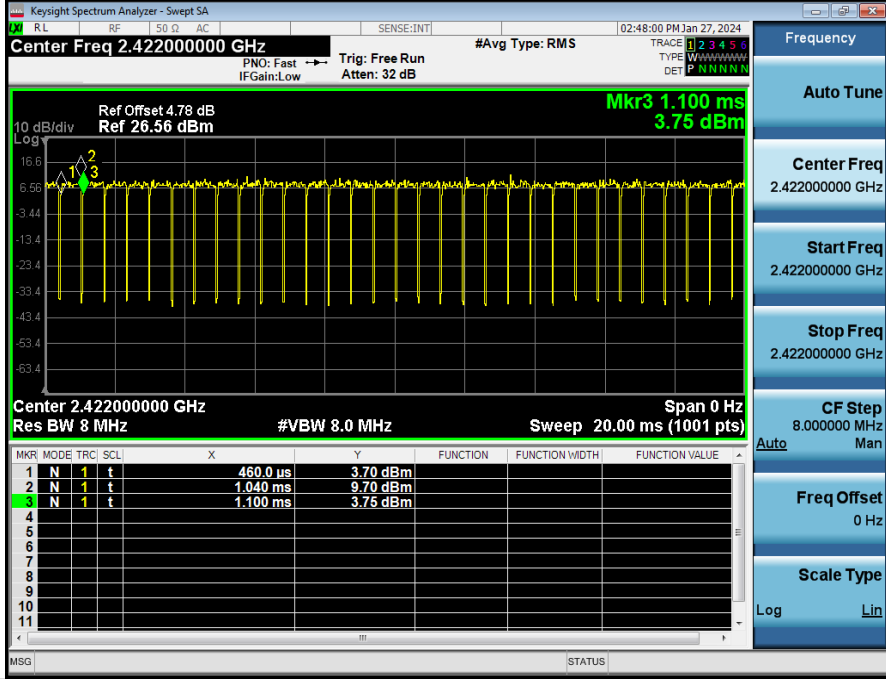
Stop Freq
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CF Step
8.000000 MHz
Auto Man

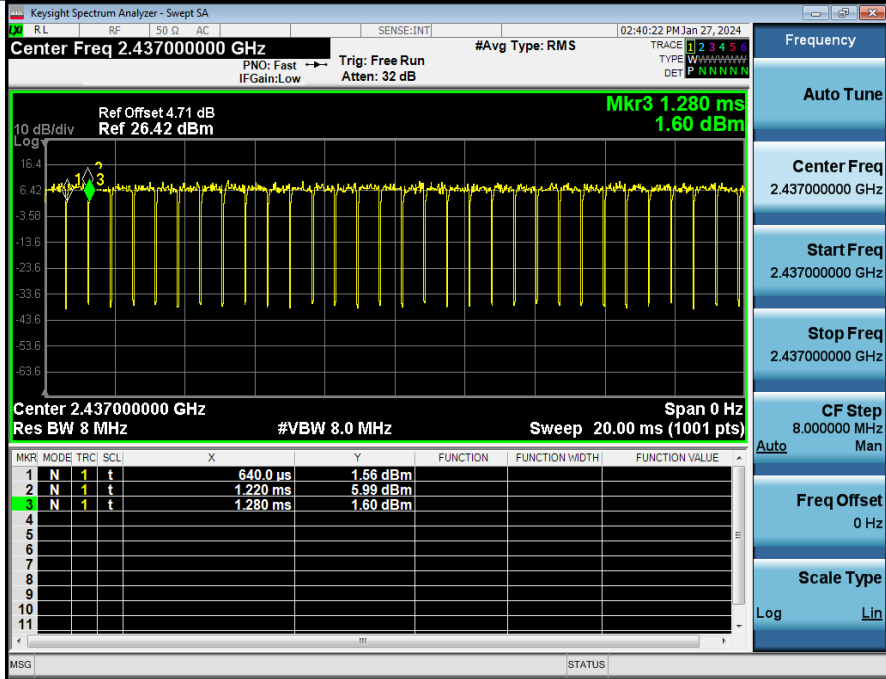
Freq Offset
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Scale Type
Log Lin

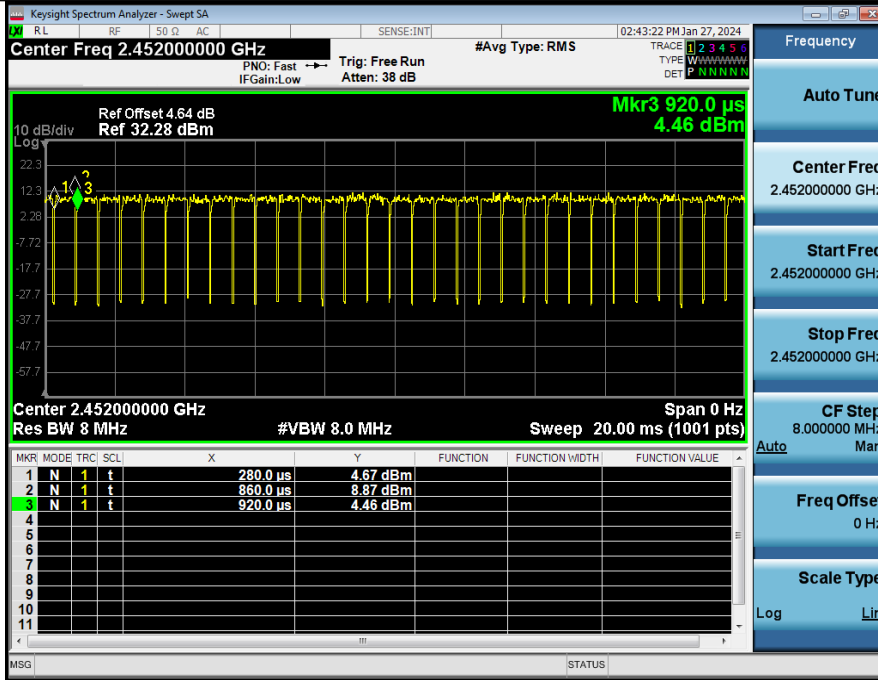
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



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	-3.45	-10.00	-13.45	8	Pass
NVNT	ANT1	802.11b	2437.00	-4.93	-10.00	-14.93	8	Pass
NVNT	ANT1	802.11b	2462.00	-0.31	-10.00	-10.31	8	Pass
NVNT	ANT1	802.11g	2412.00	-7.03	-10.00	-17.03	8	Pass
NVNT	ANT1	802.11g	2437.00	-8.78	-10.00	-18.78	8	Pass
NVNT	ANT1	802.11g	2462.00	-6.08	-10.00	-16.08	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-7.45	-10.00	-17.45	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-9.61	-10.00	-19.61	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-6.51	-10.00	-16.52	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-9.18	-10.00	-19.18	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-11.87	-10.00	-21.87	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-10.11	-10.00	-20.11	8	Pass



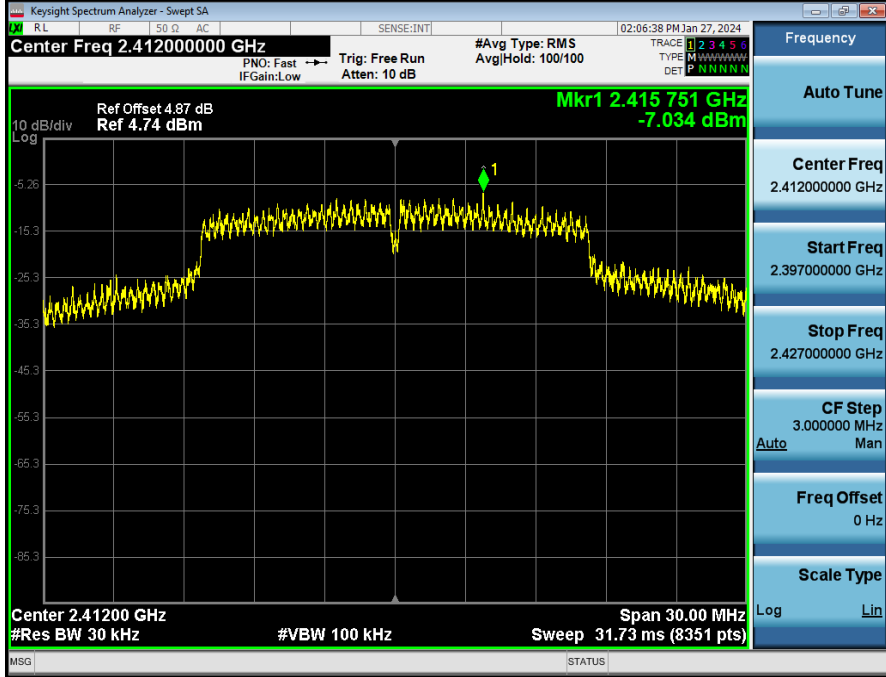
Power Spectral Density NVNT_ANT1_802_11b_2437



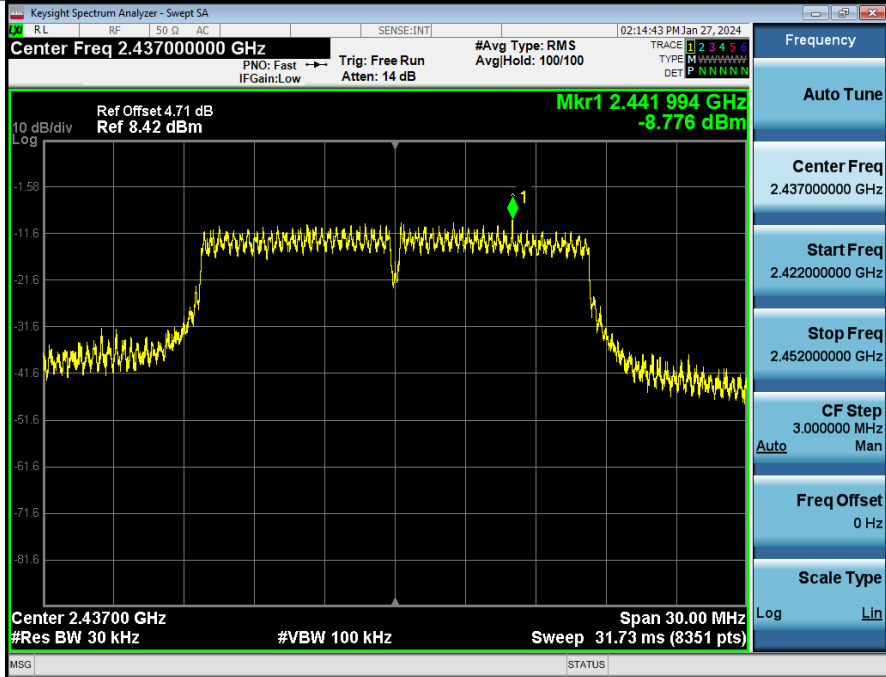
Power Spectral Density NVNT_ANT1_802_11b_2462



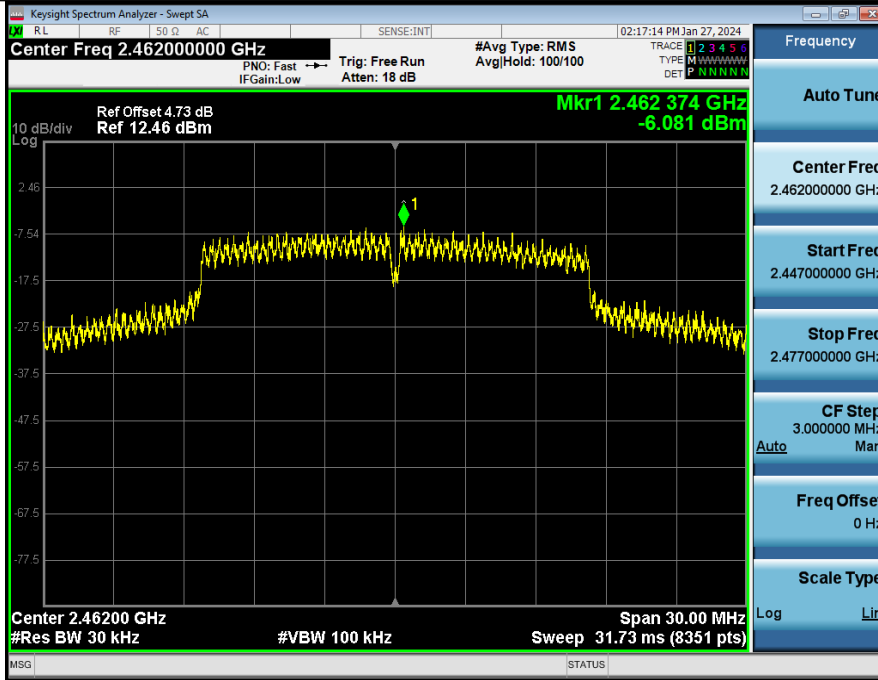
Power Spectral Density NVNT_ANT1_802_11g_2412



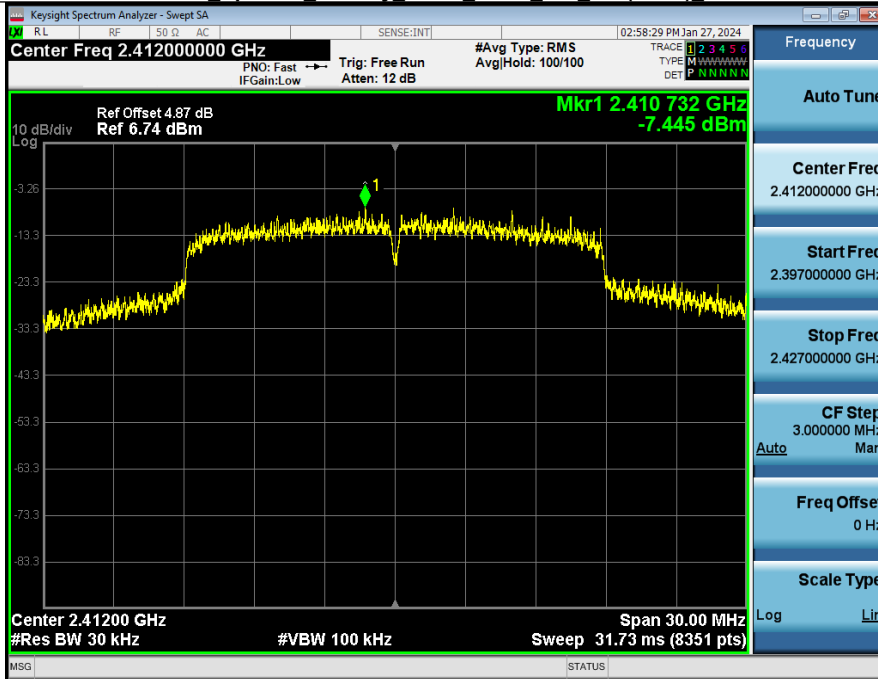
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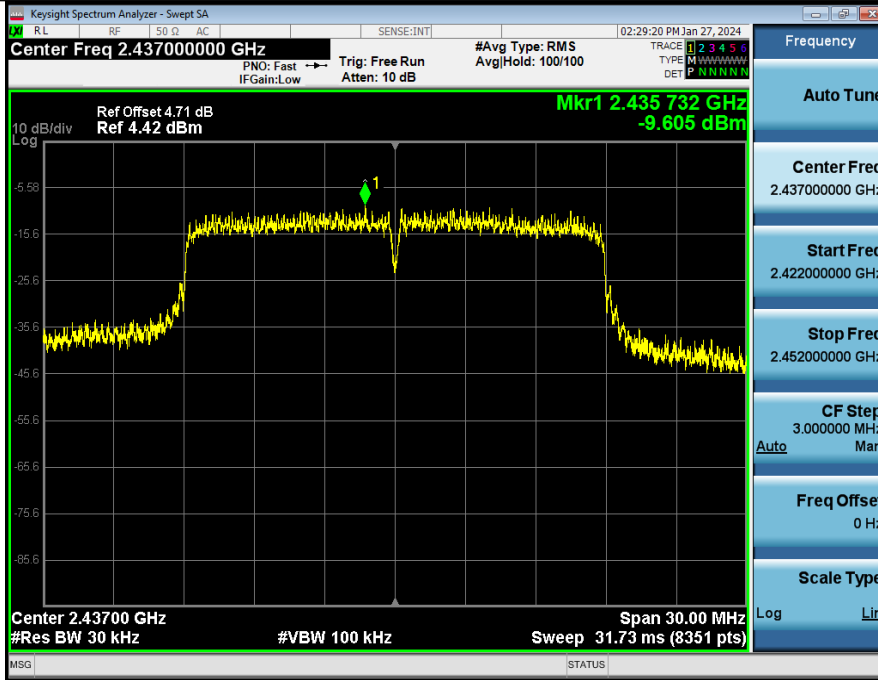
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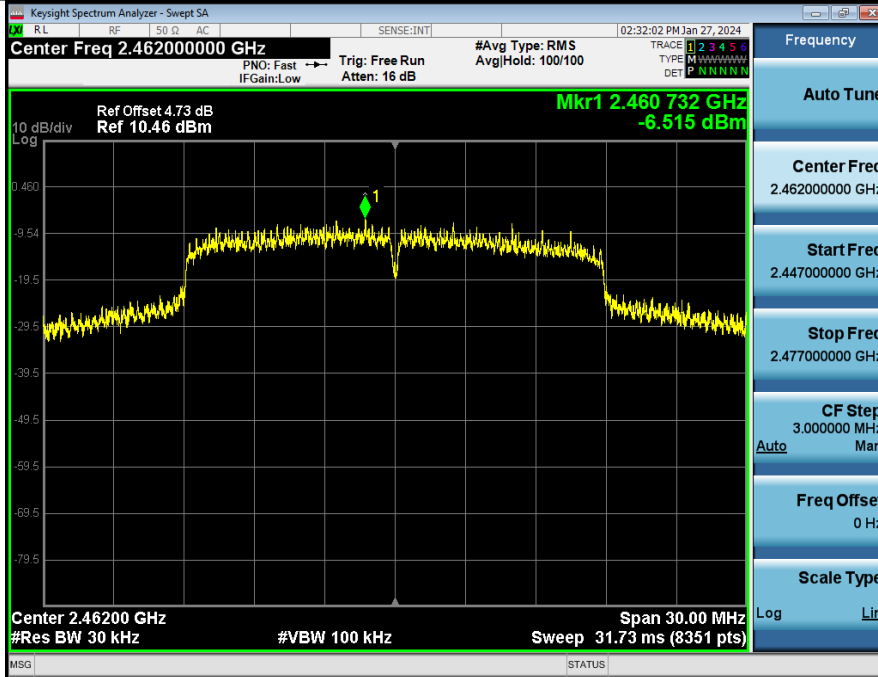
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2412



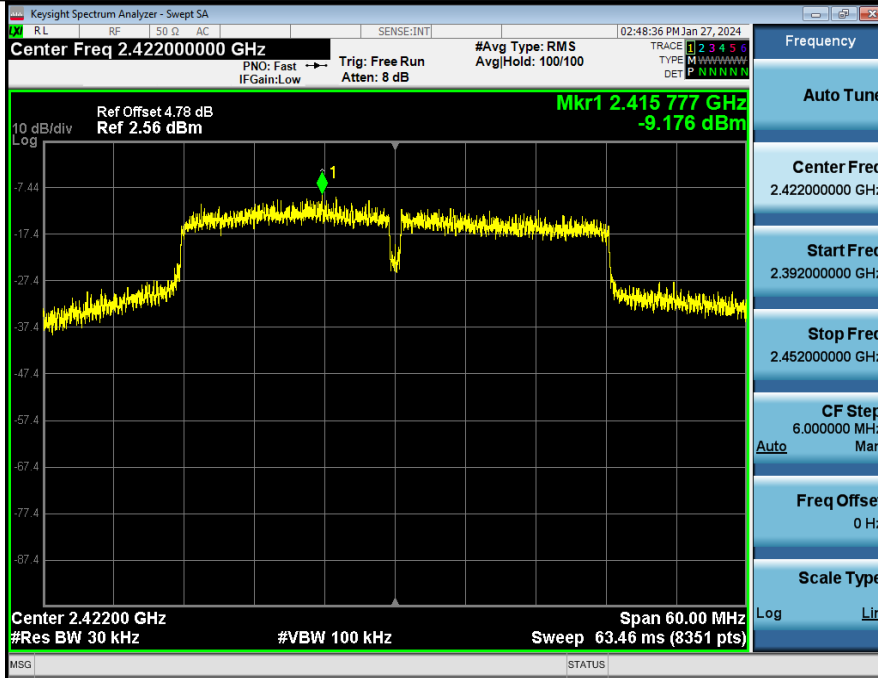
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2437



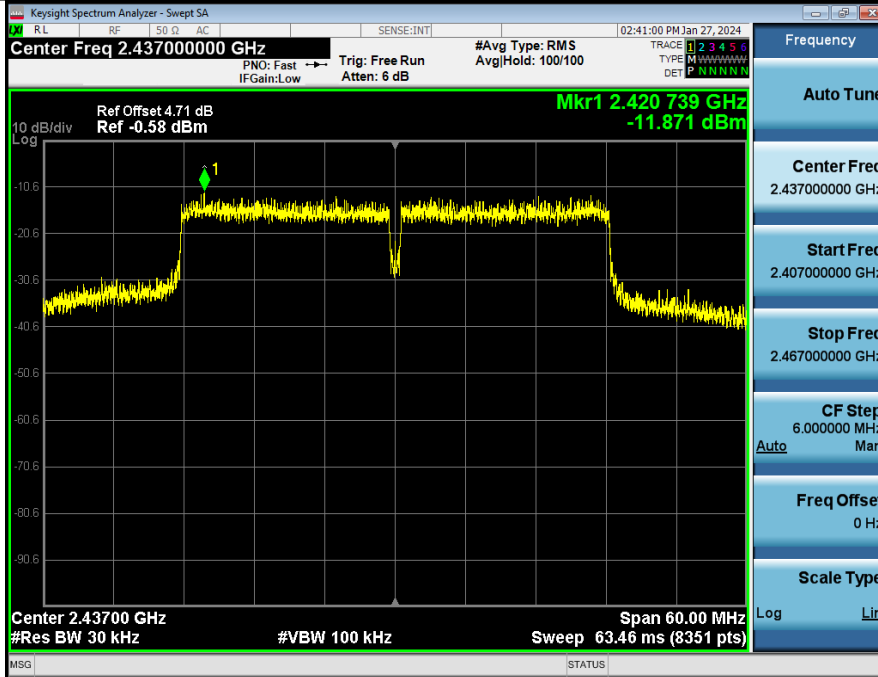
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2462



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_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2398.032	-26.824	-20.876	Pass
NVNT	ANT1	802.11b	2462.00	2485.984	-45.941	-19.911	Pass
NVNT	ANT1	802.11g	2412.00	2399.152	-22.157	-22.025	Pass
NVNT	ANT1	802.11g	2462.00	2483.920	-32.736	-21.904	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	-24.223	-23.564	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.824	-29.557	-21.176	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2396.988	-24.789	-24.594	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-29.061	-26.075	Pass

1 Reference Level NVNT_ANT1_802_11b_2412



2 Bandedge_NVNT_ANT1_802_11b_2412



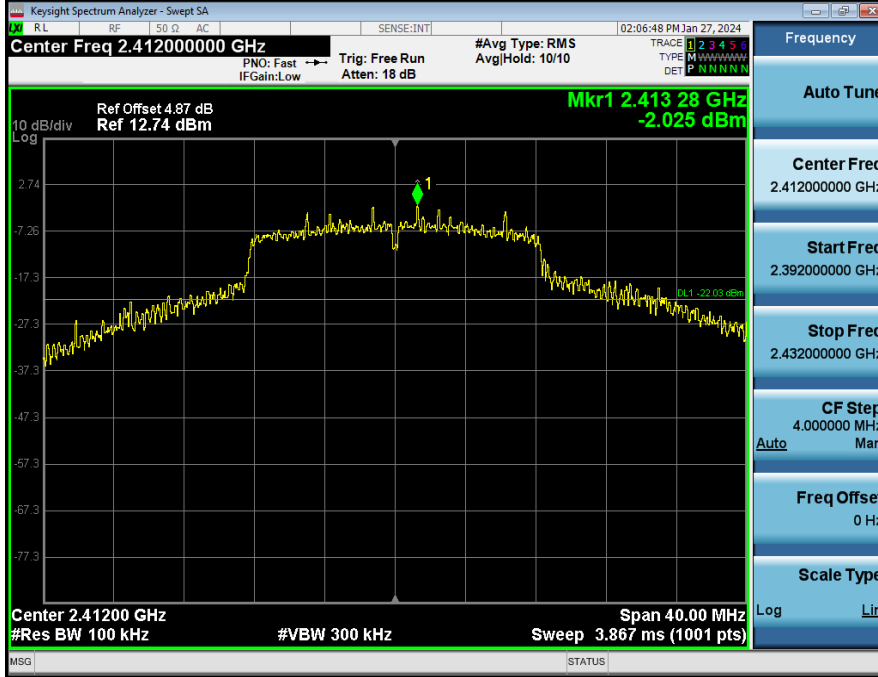
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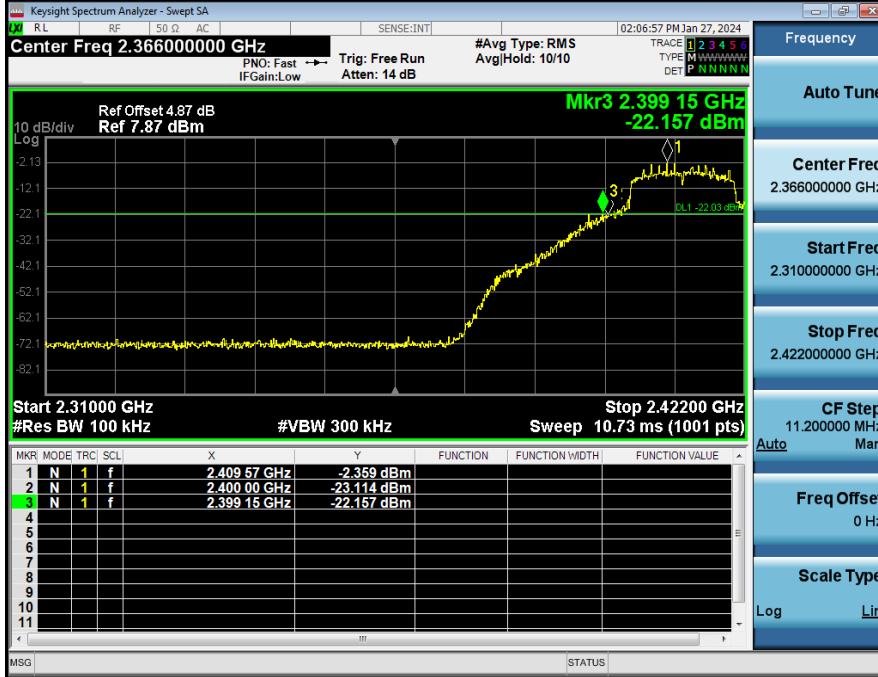
2 Bandedge NVNT_ANT1_802_11b_2462



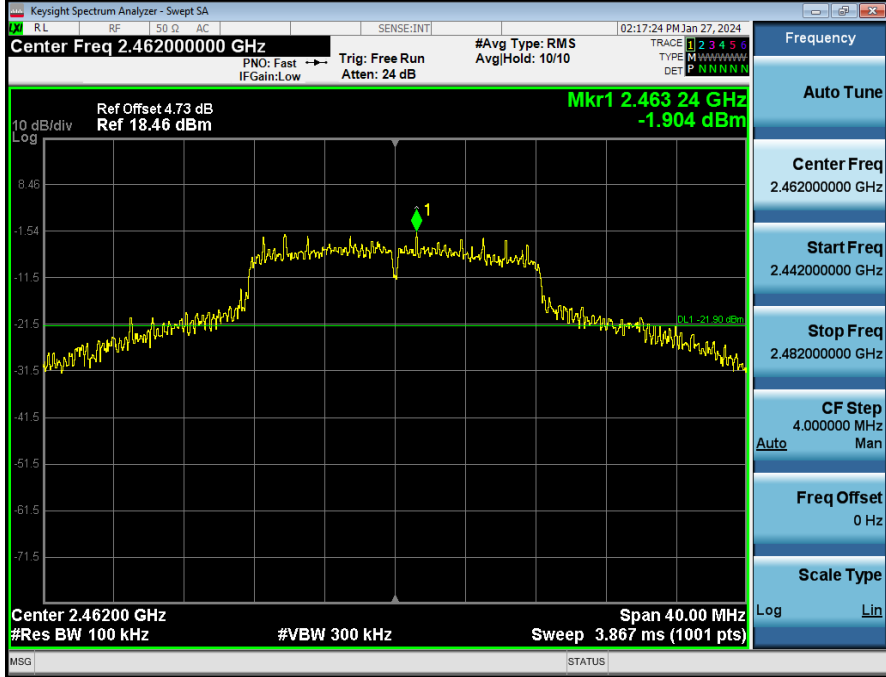
1 Reference Level NVNT_ANT1_802_11g_2412



2 Bandedge NVNT_ANT1_802_11g_2412



1 Reference Level NVNT_ANT1_802_11g_2462



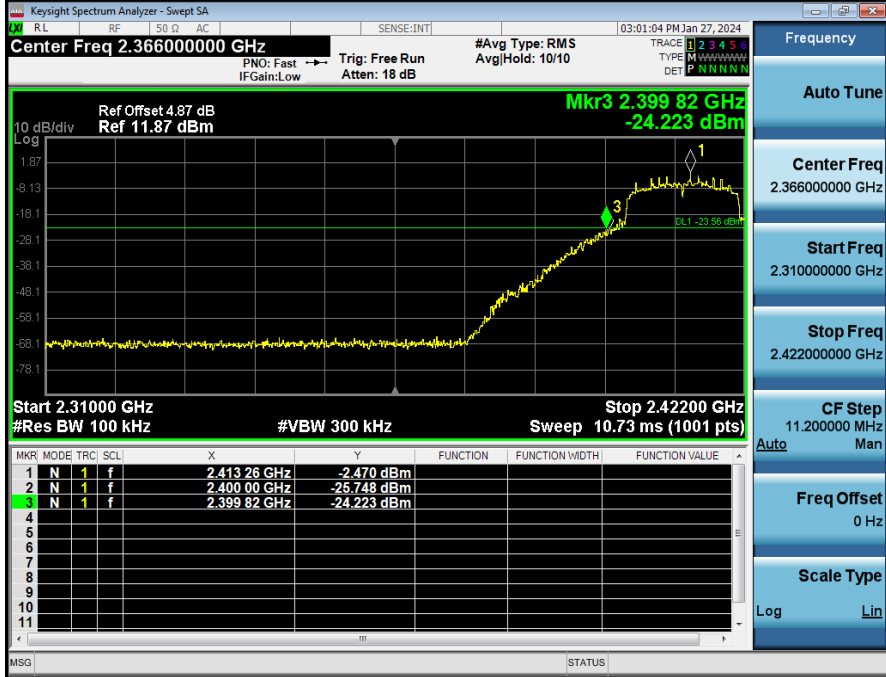
2 Bandedge NVNT_ANT1_802_11g_2462



1 Reference Level_NVNT_ANT1_802_11n(HT20)_2412



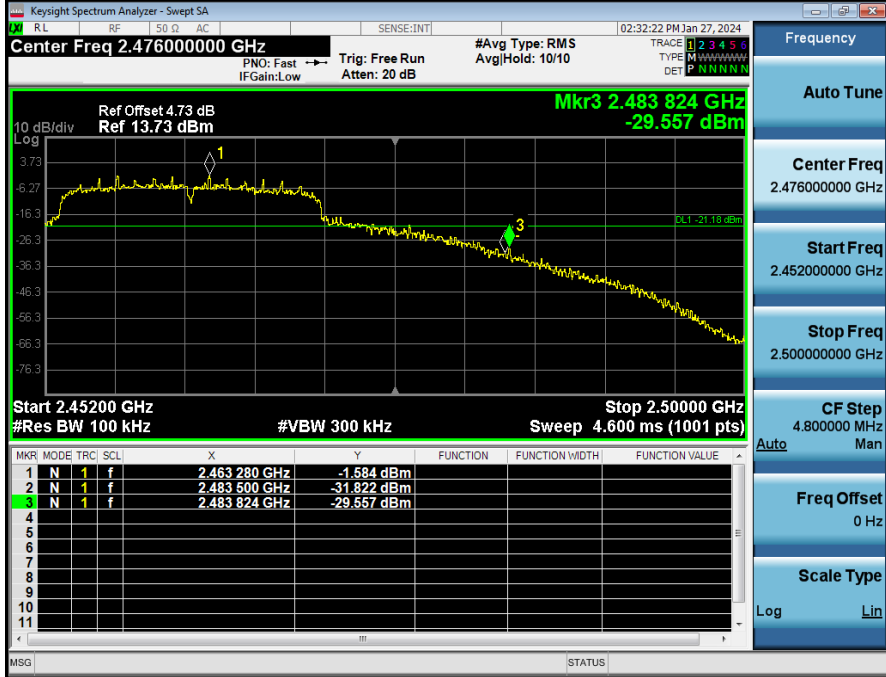
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2412



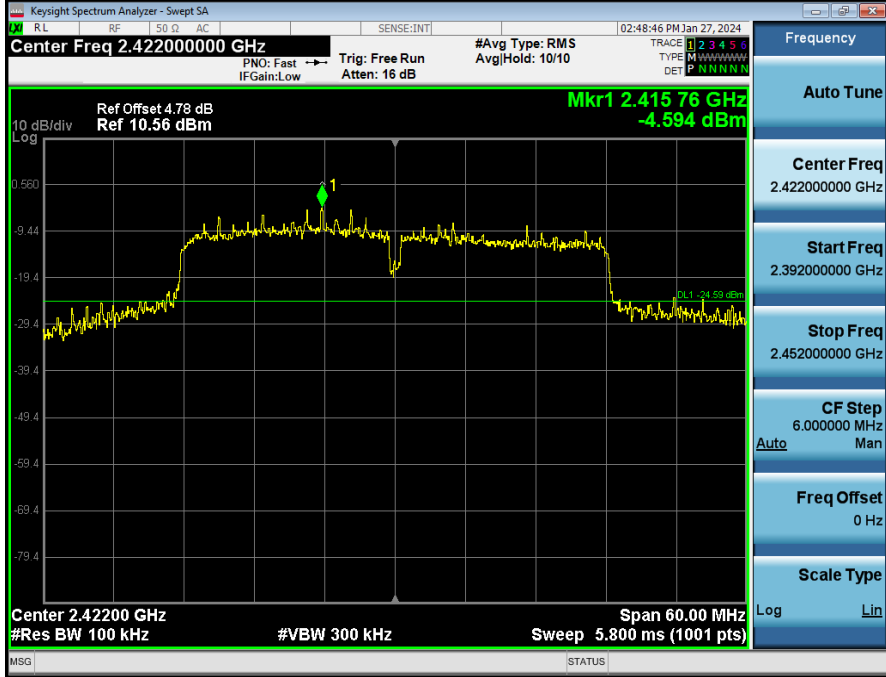
1 Reference Level_NVNT_ANT1_802_11n(HT20)_2462



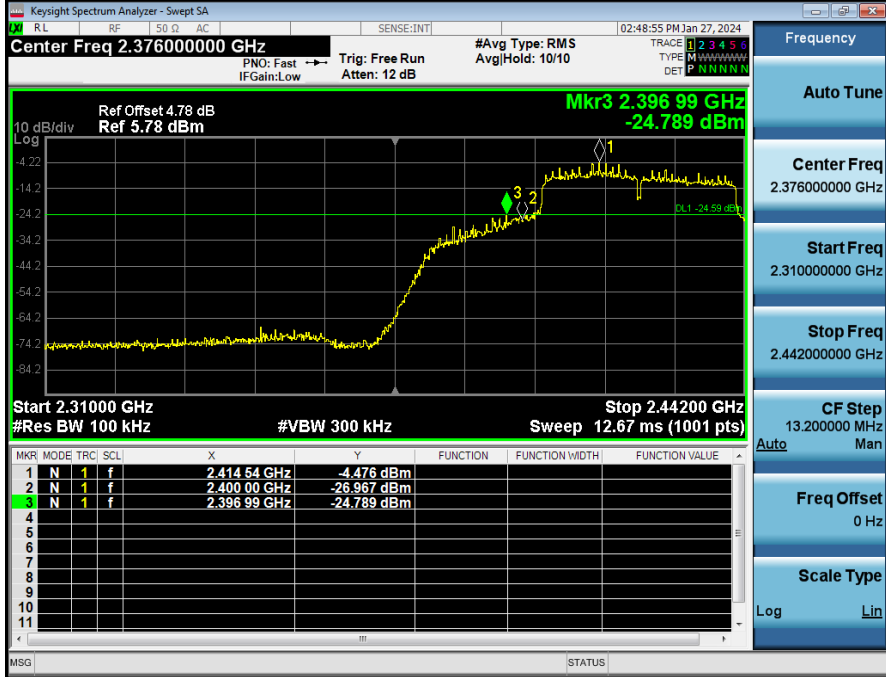
2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



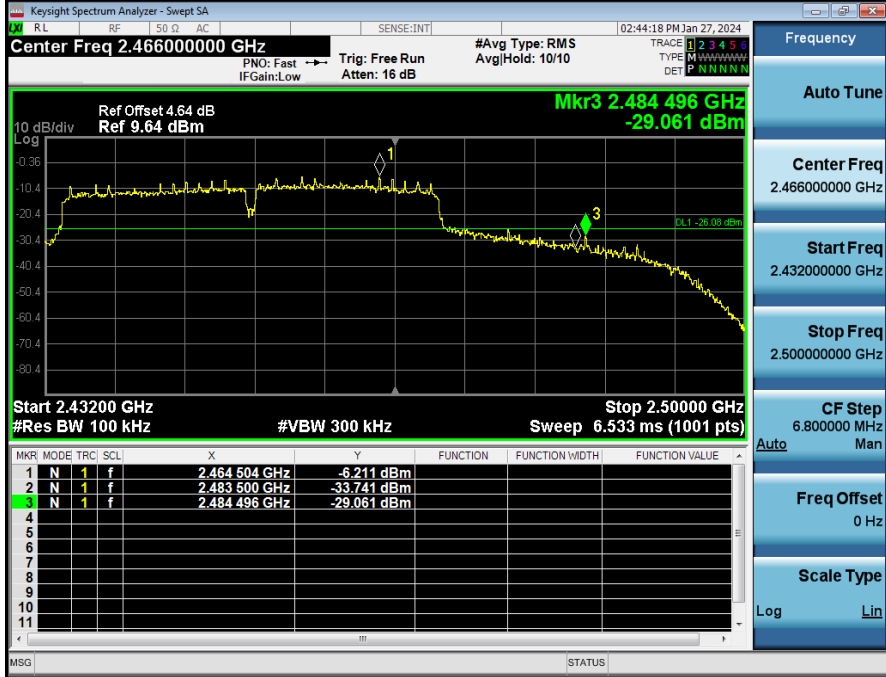
2 Bandedge NVNT_ANT1_802_11n(HT40)_2422



1 Reference Level_NVNT_ANT1_802_11n(HT40)_2452

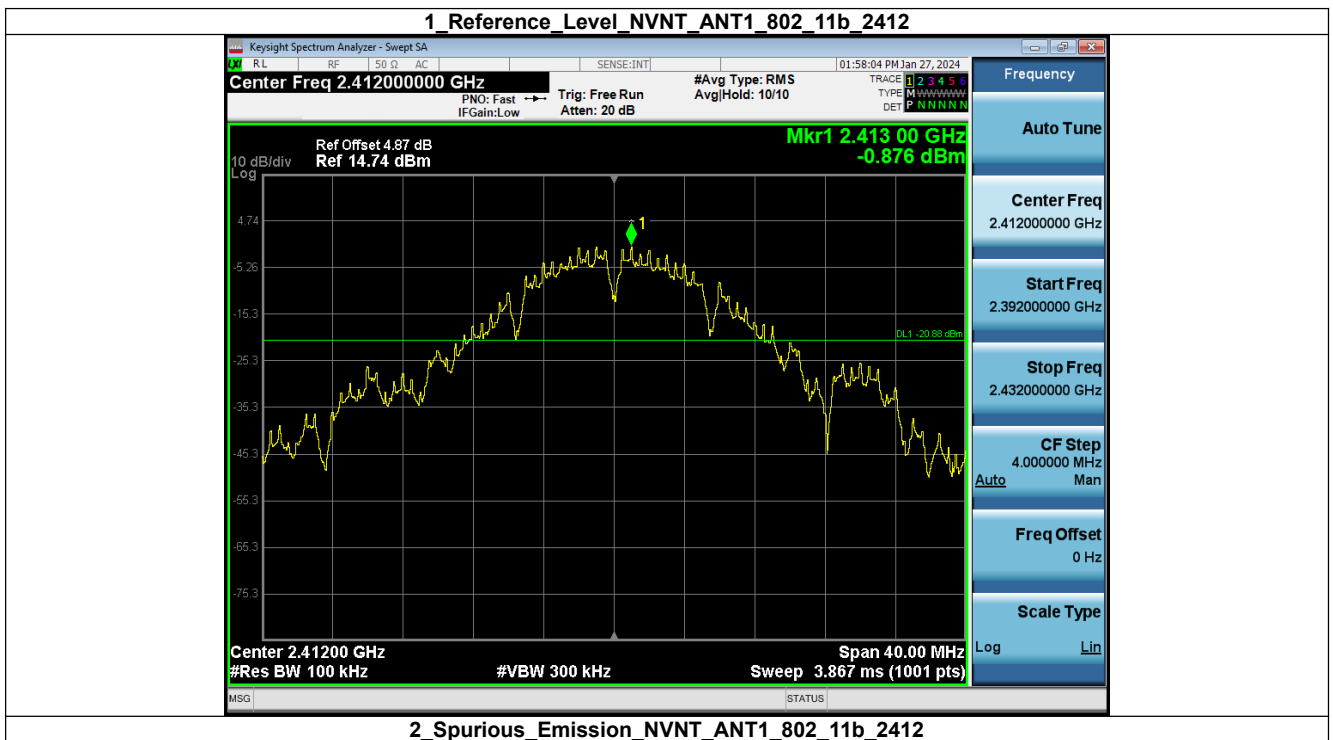


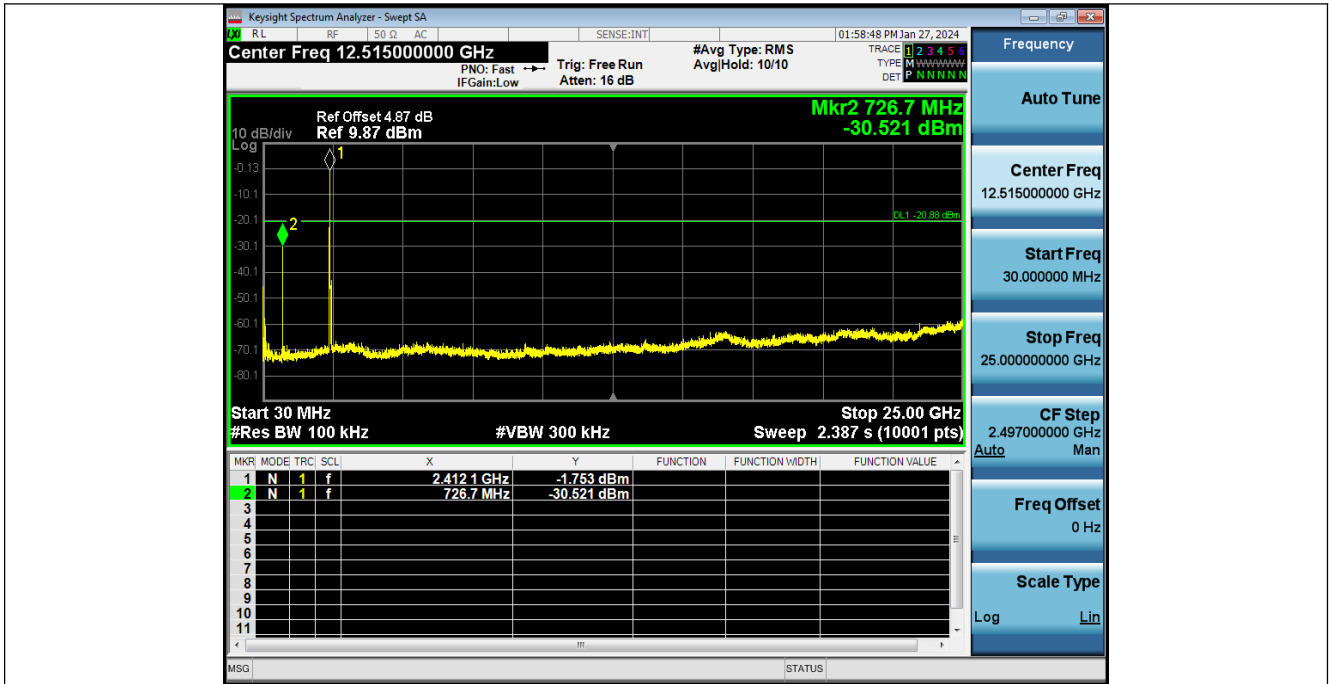
2 Bandedge_NVNT_ANT1_802_11n(HT40)_2452



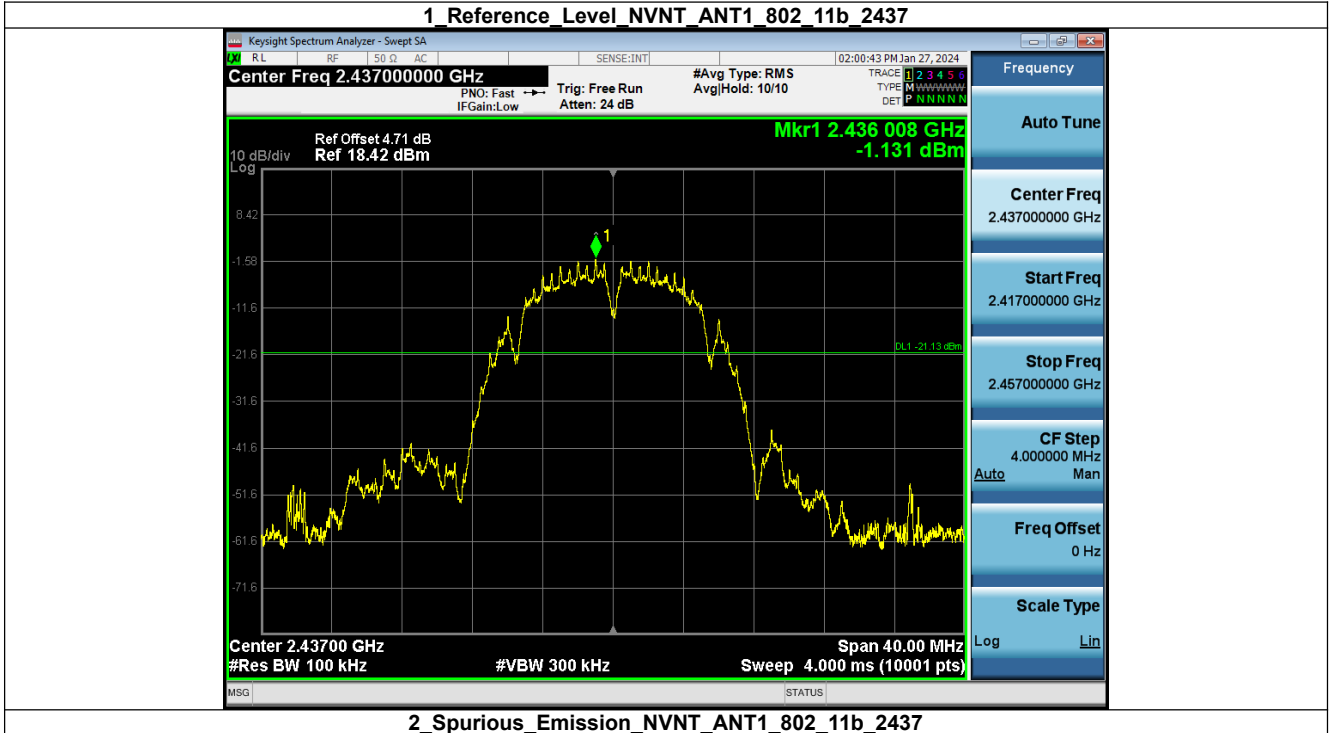
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	726.663	-30.521	-20.876	Pass
NVNT	ANT1	802.11b	2437.00	721.669	-24.578	-21.131	Pass
NVNT	ANT1	802.11b	2462.00	32.497	-44.690	-19.911	Pass
NVNT	ANT1	802.11g	2412.00	32.497	-43.247	-22.025	Pass
NVNT	ANT1	802.11g	2437.00	721.669	-27.171	-24.627	Pass
NVNT	ANT1	802.11g	2462.00	726.663	-25.486	-21.904	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	726.663	-27.873	-21.679	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	32.497	-45.680	-24.898	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	32.497	-45.257	-21.176	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	731.657	-32.838	-24.594	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	32.497	-45.835	-26.333	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	32.497	-45.782	-26.075	Pass

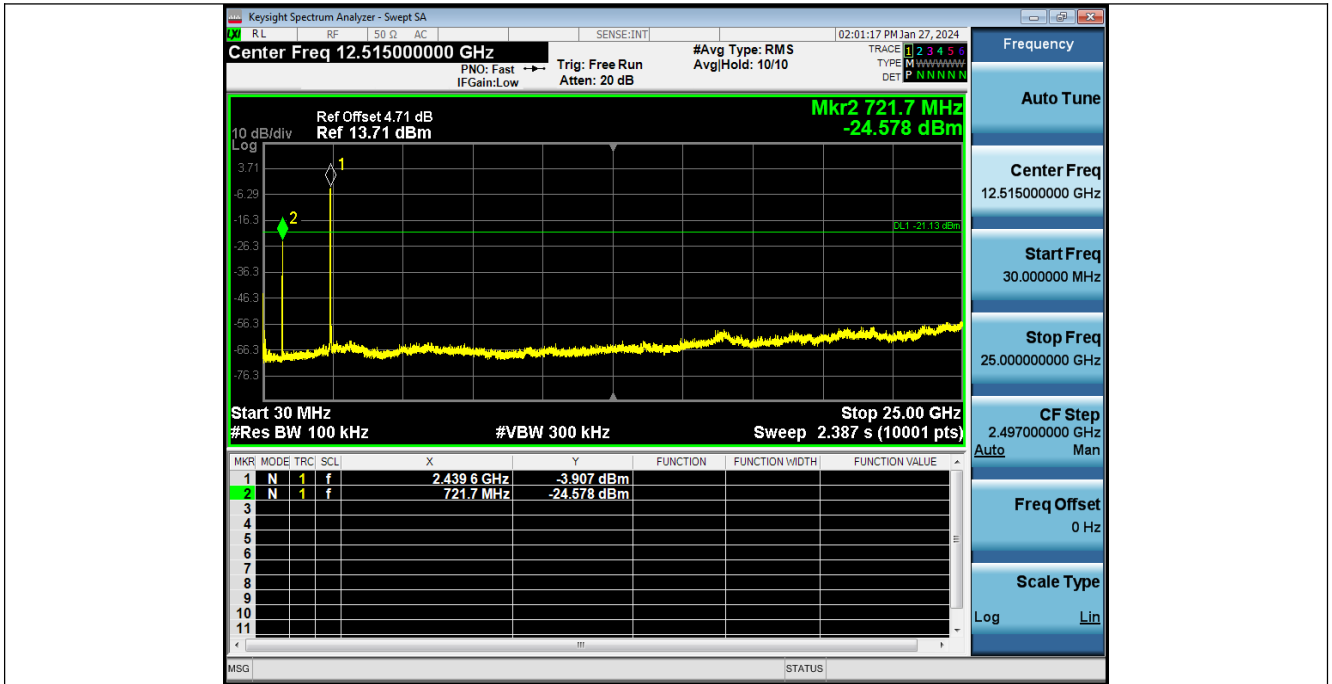




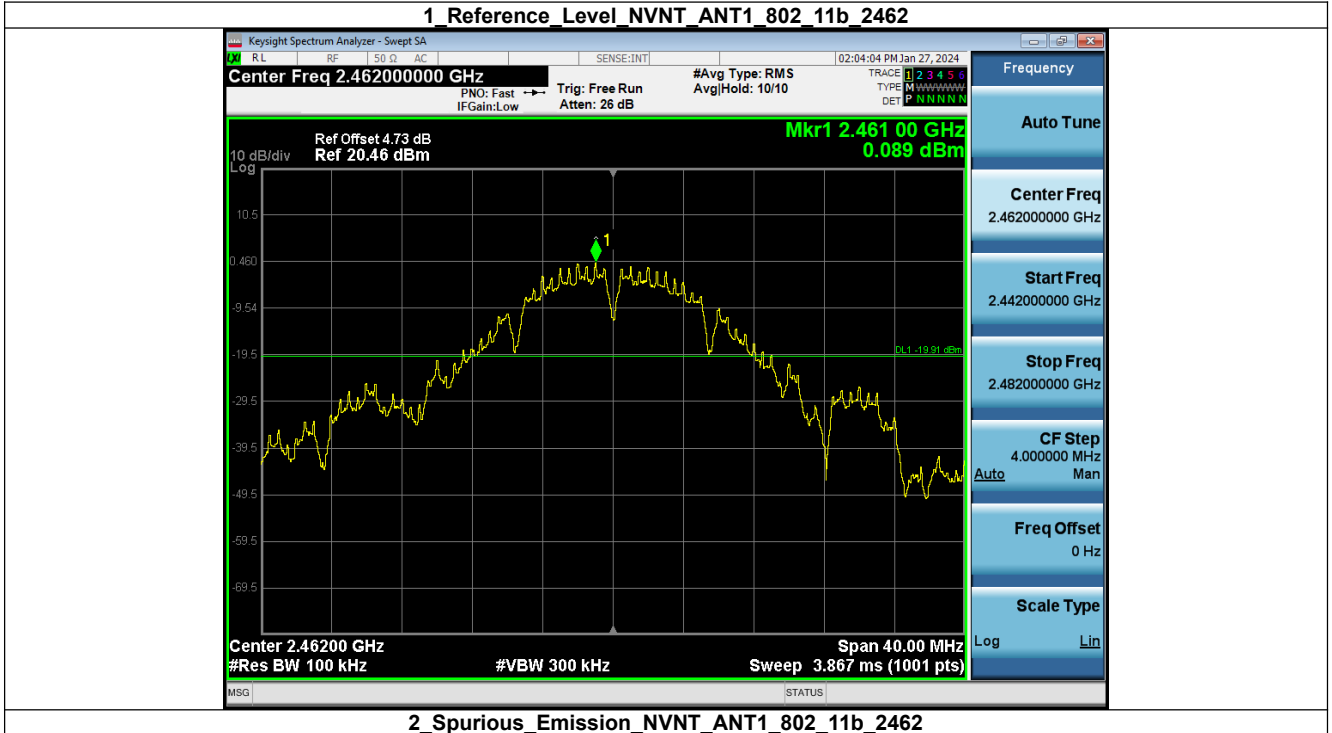
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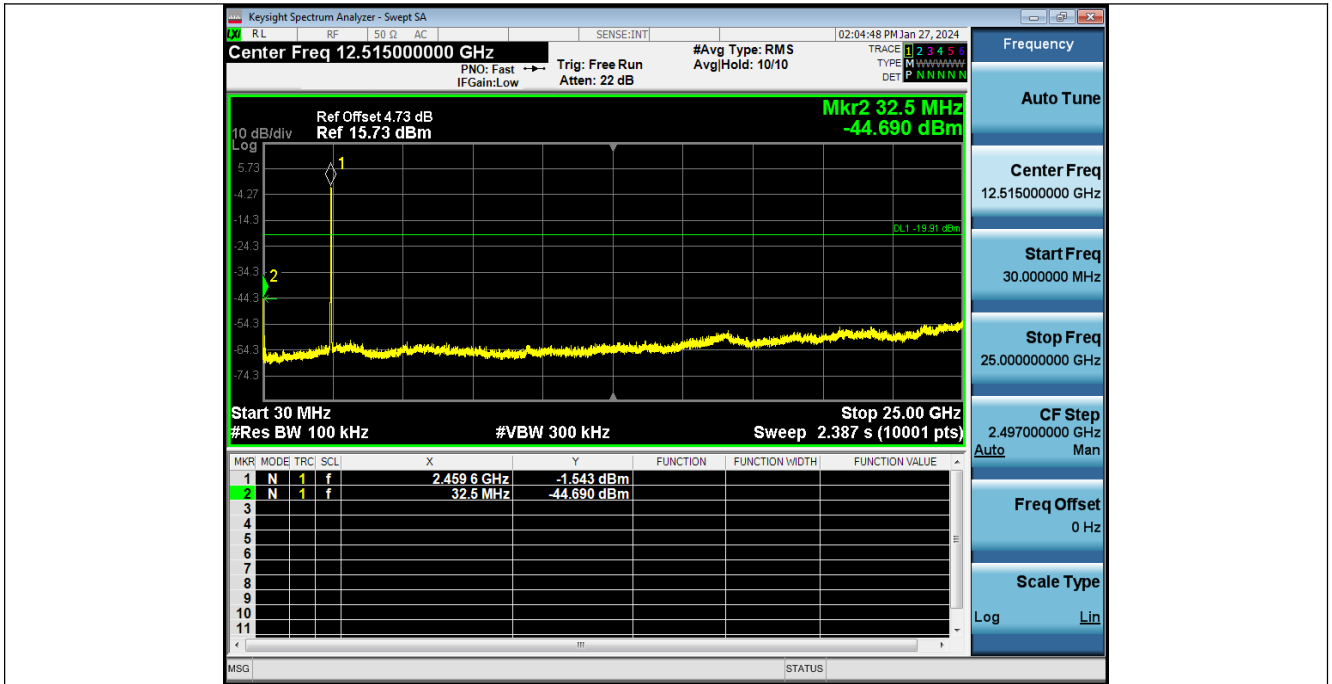
2 Spurious Emission_NVNT_ANT1_802_11b_2437



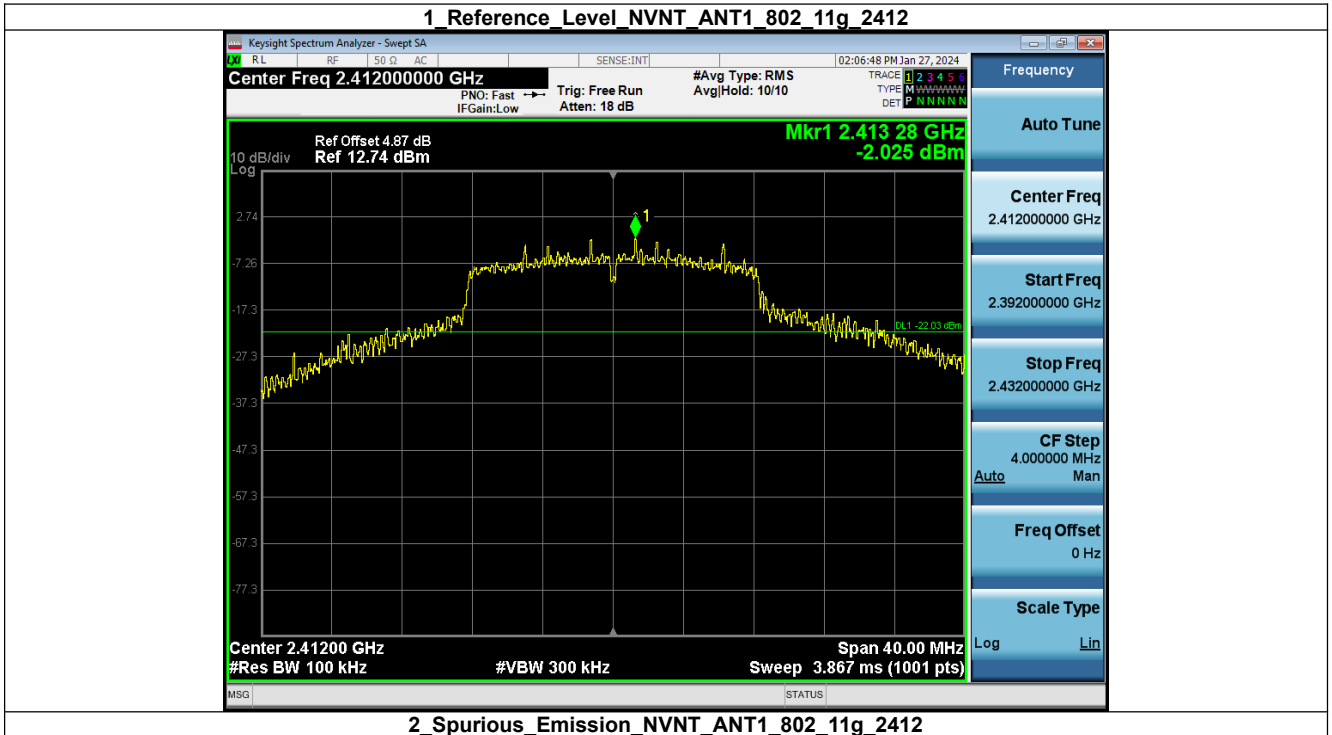
1 Reference Level NVNT_ANT1_802_11b_2462



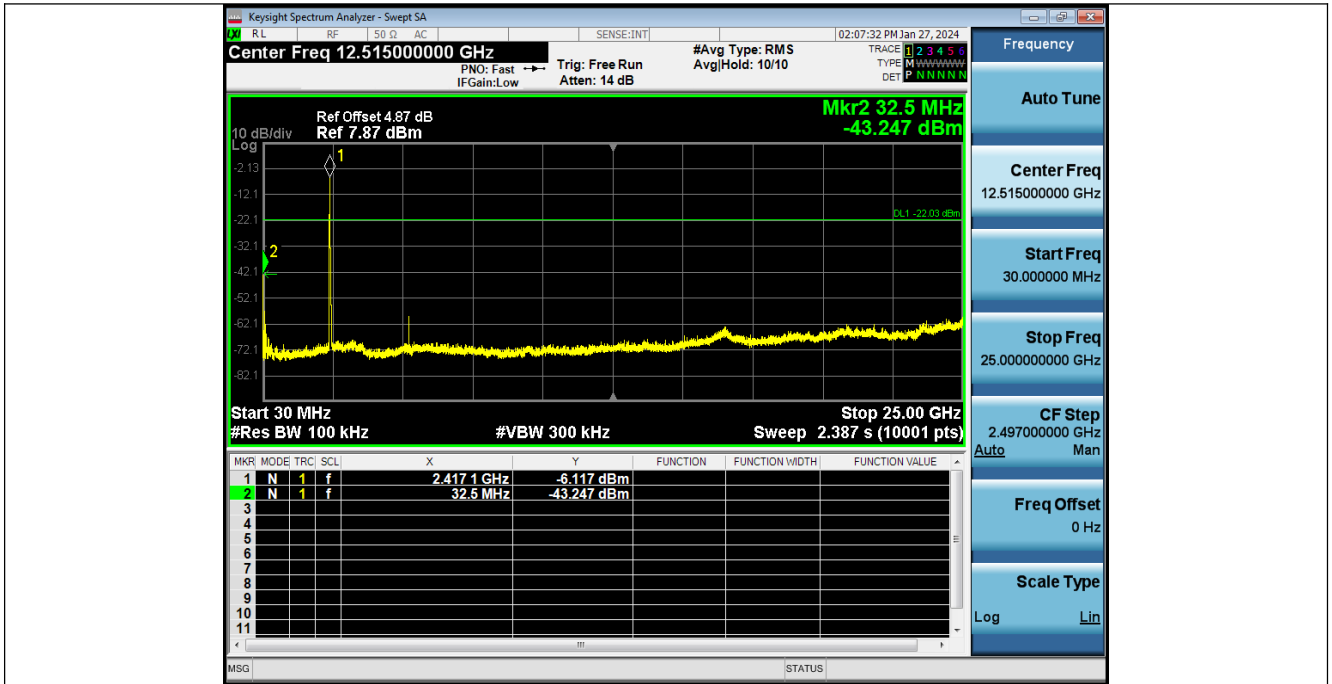
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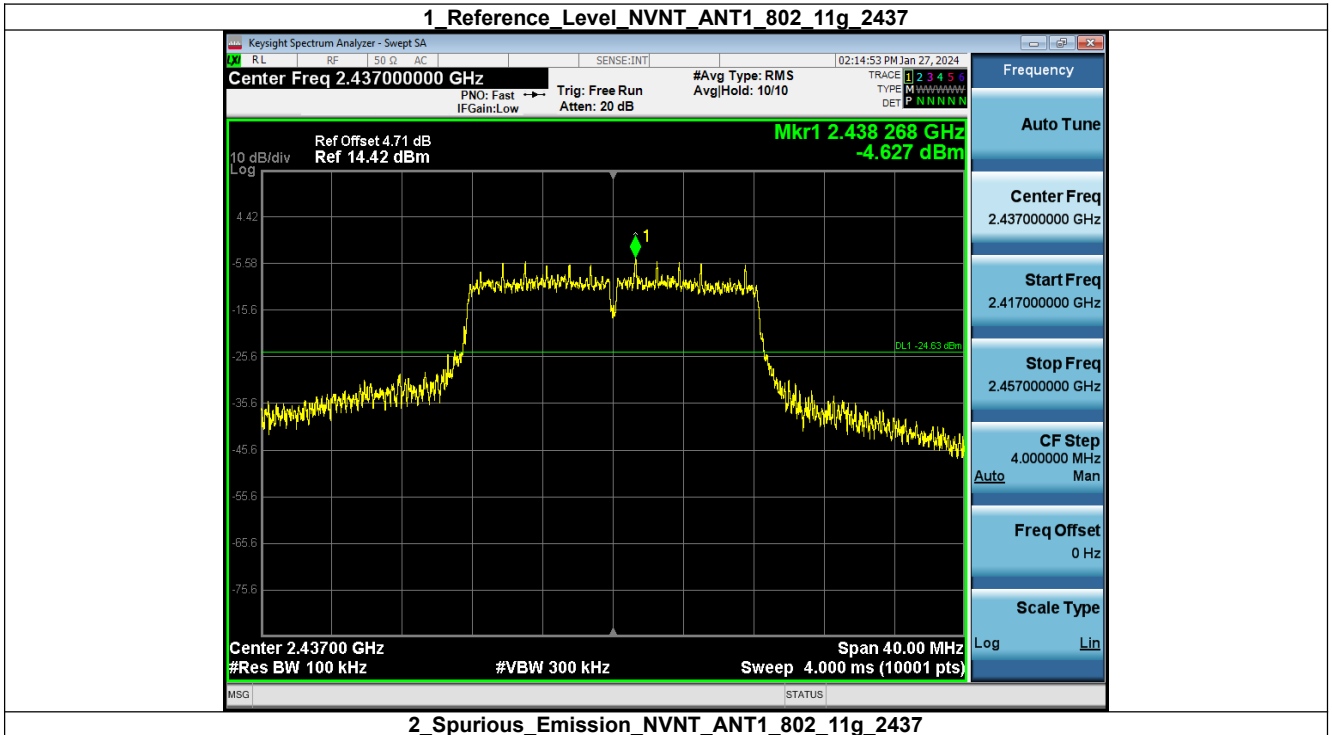
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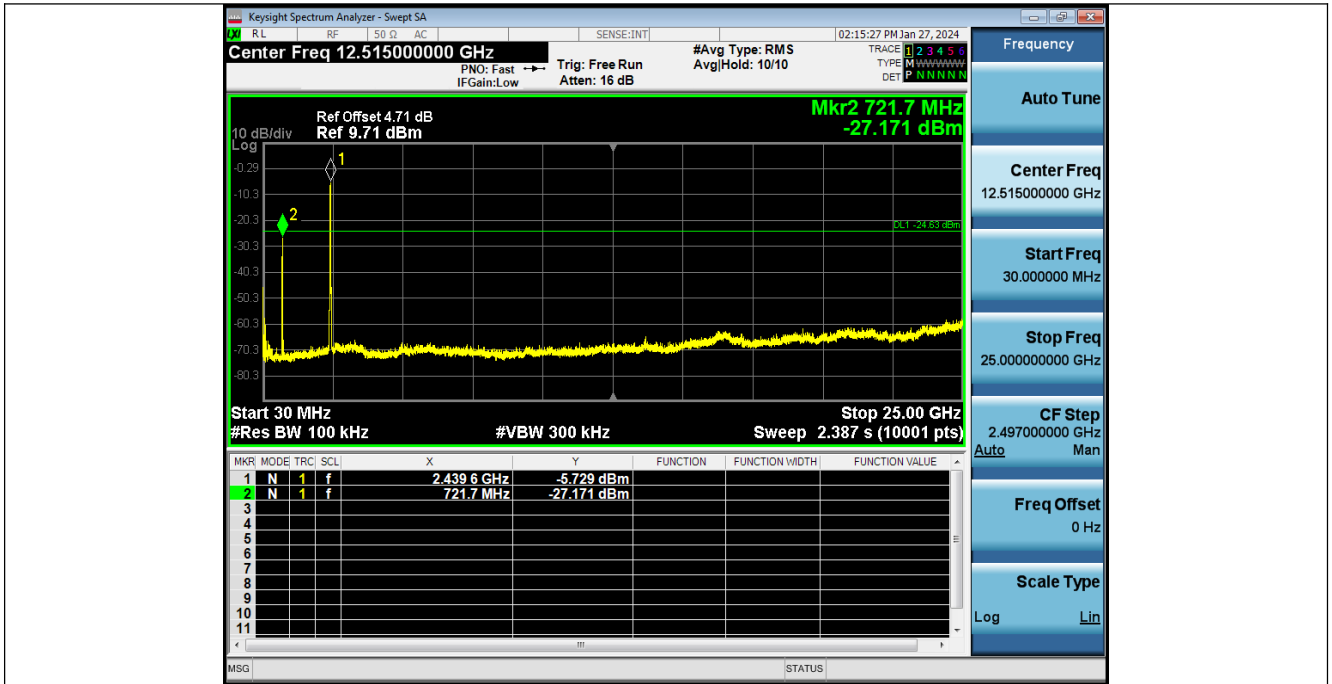
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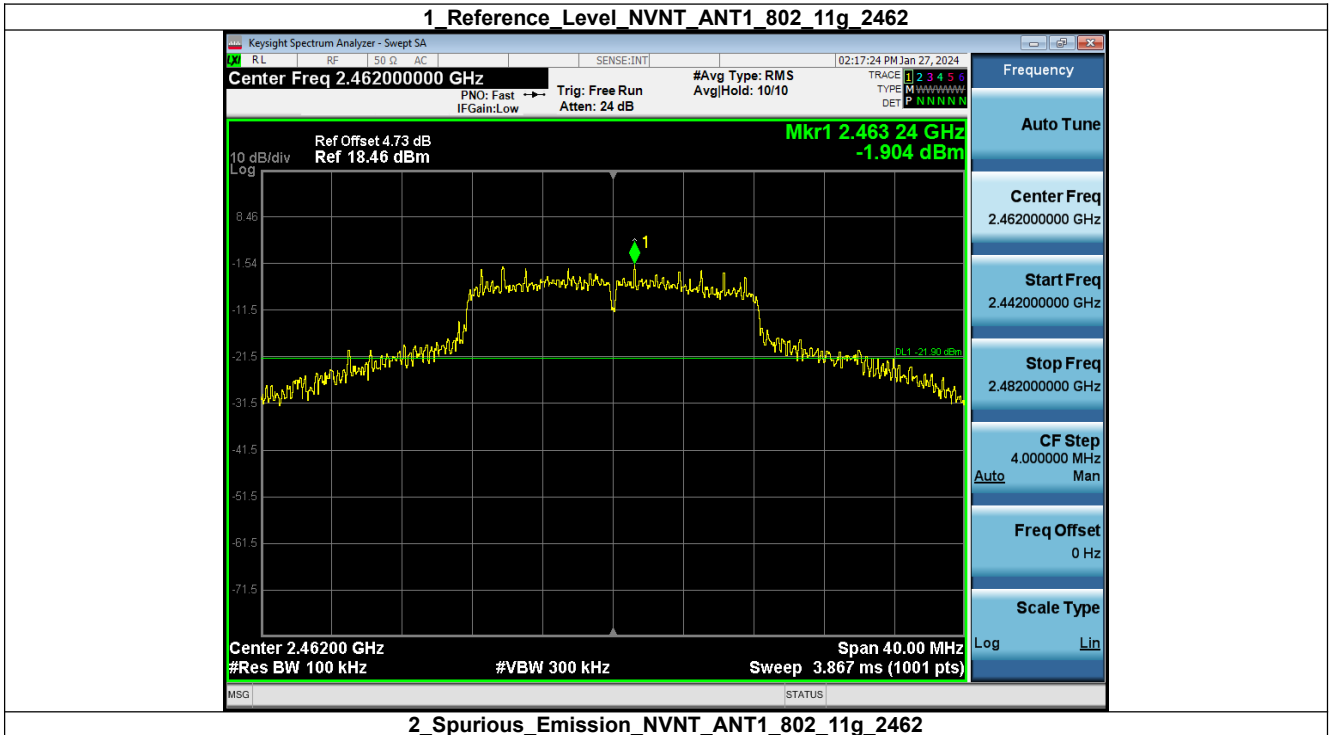
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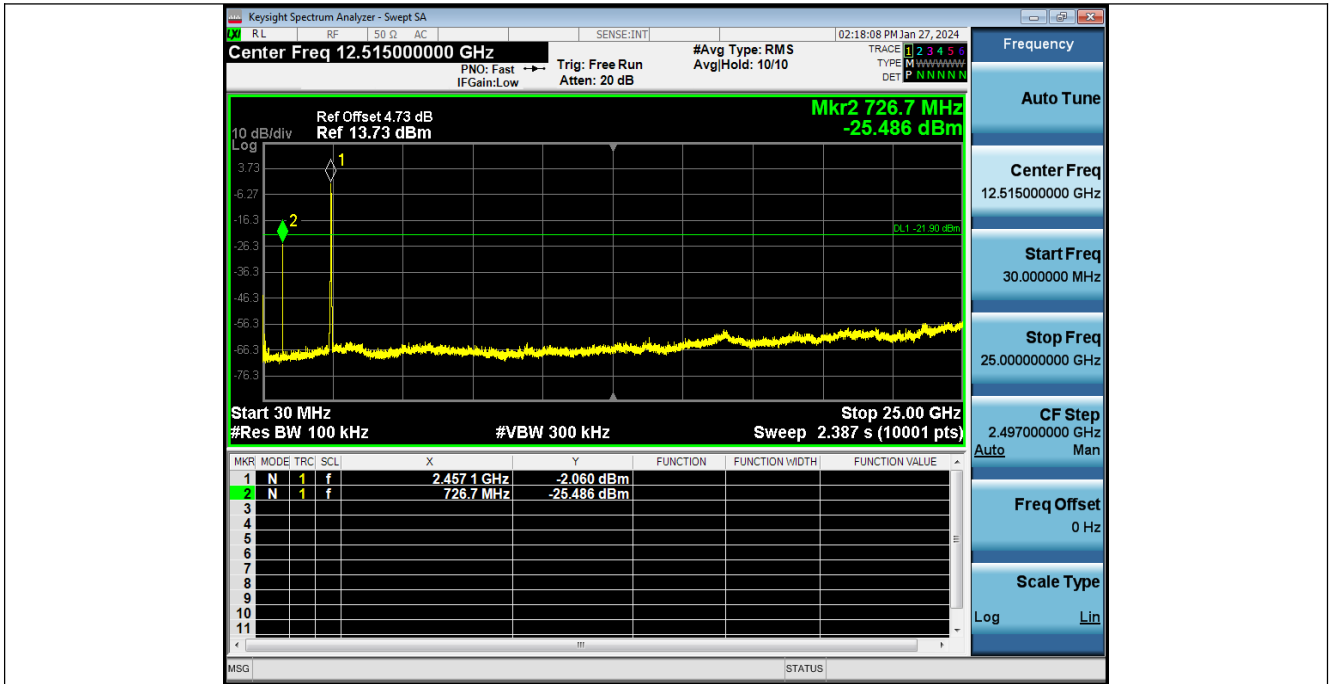
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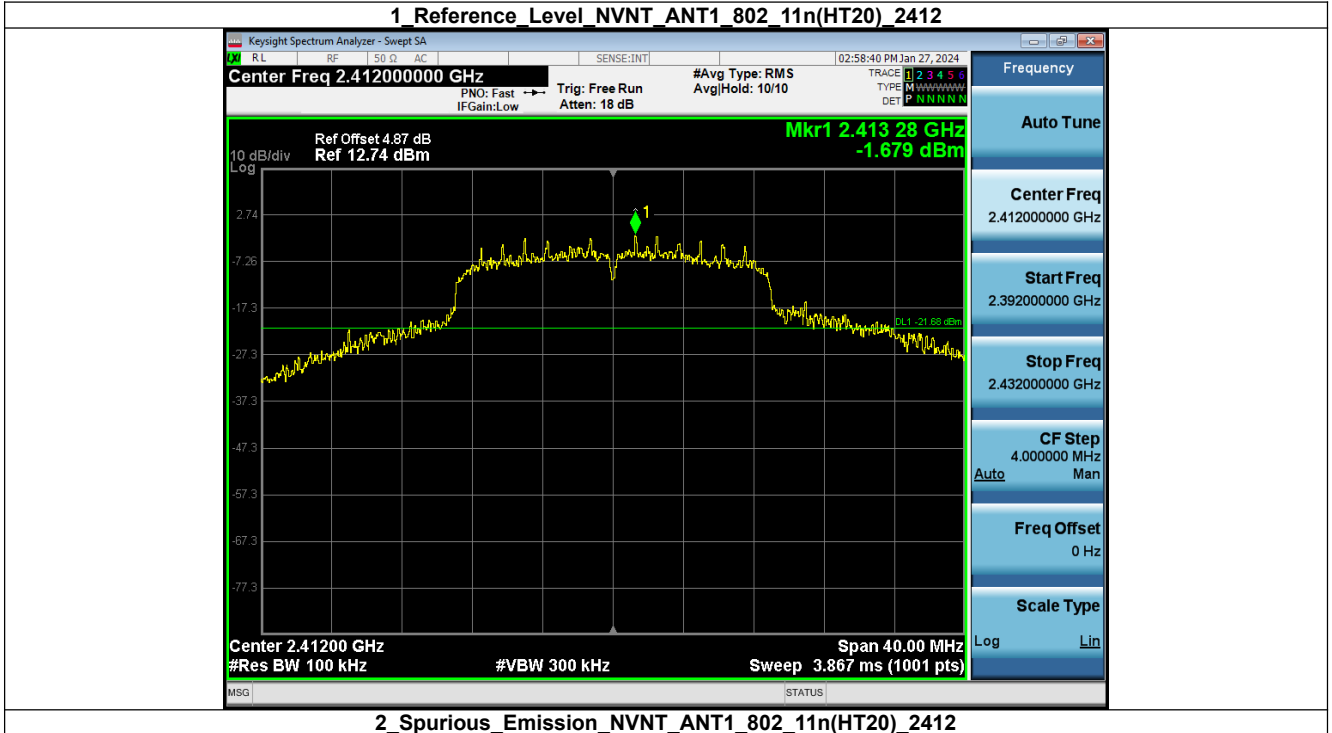
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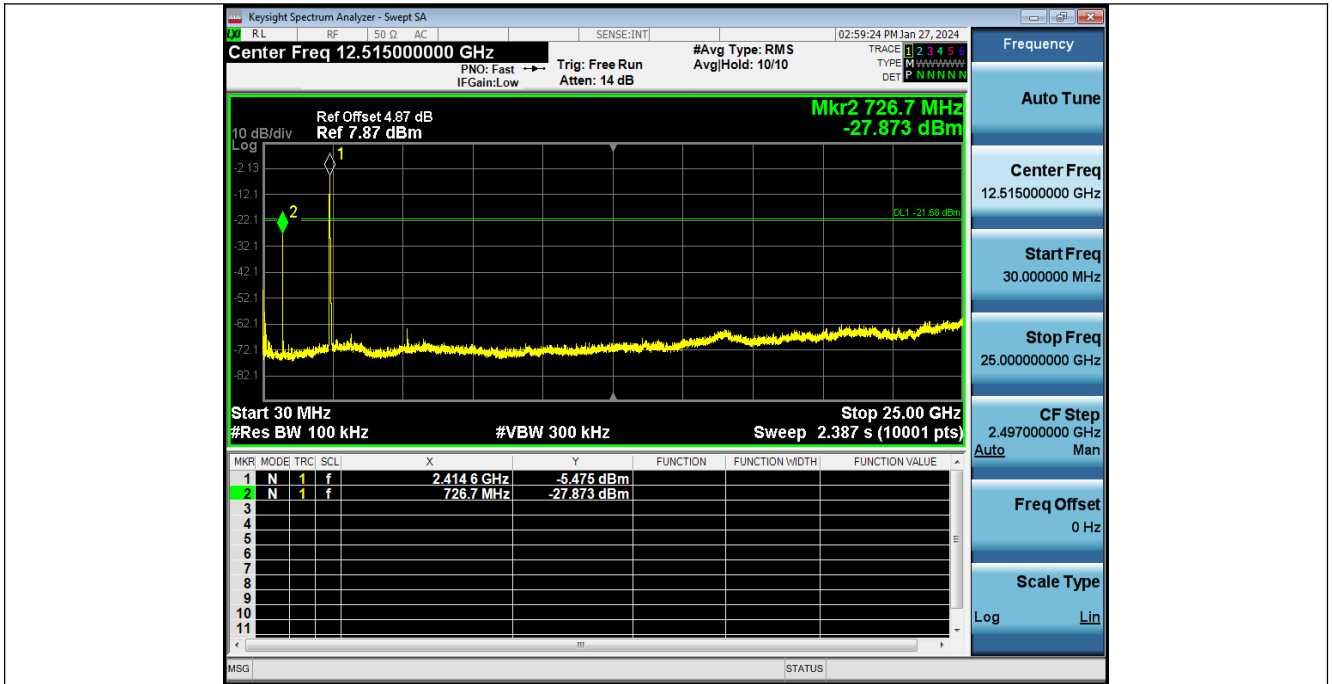
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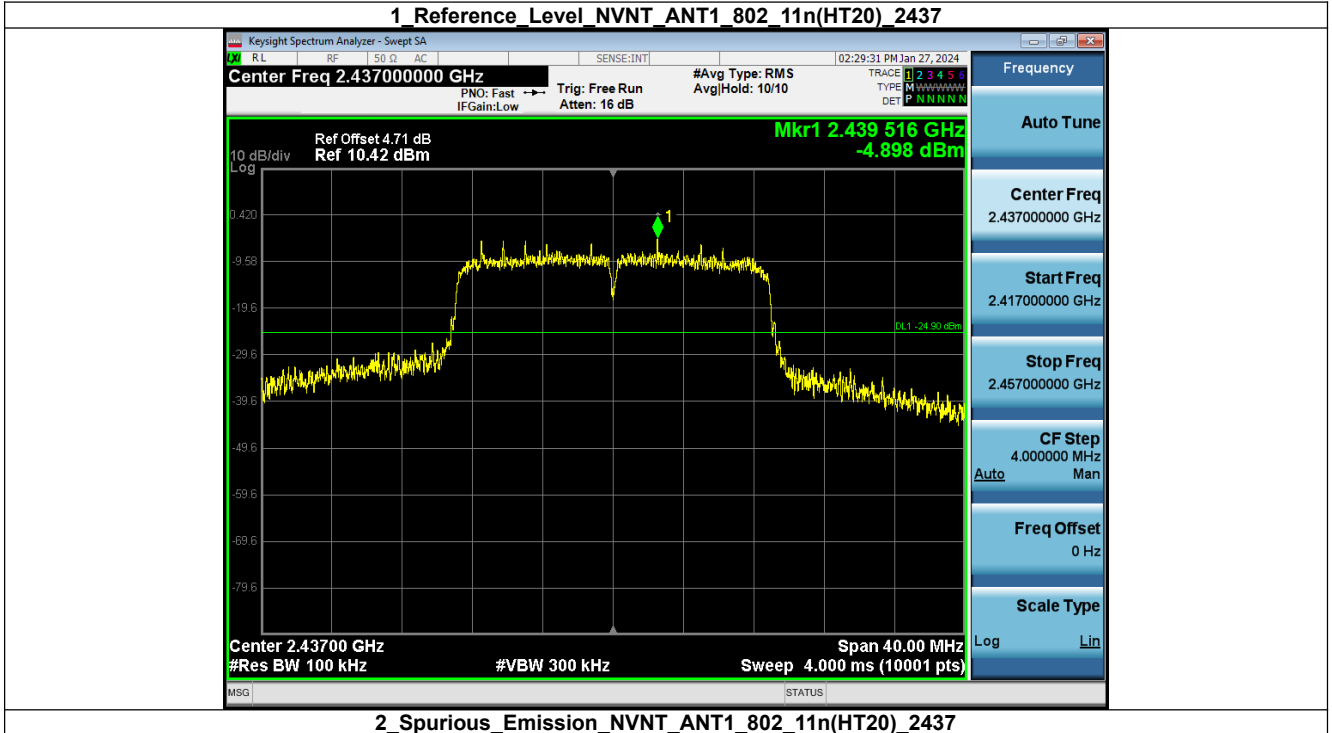
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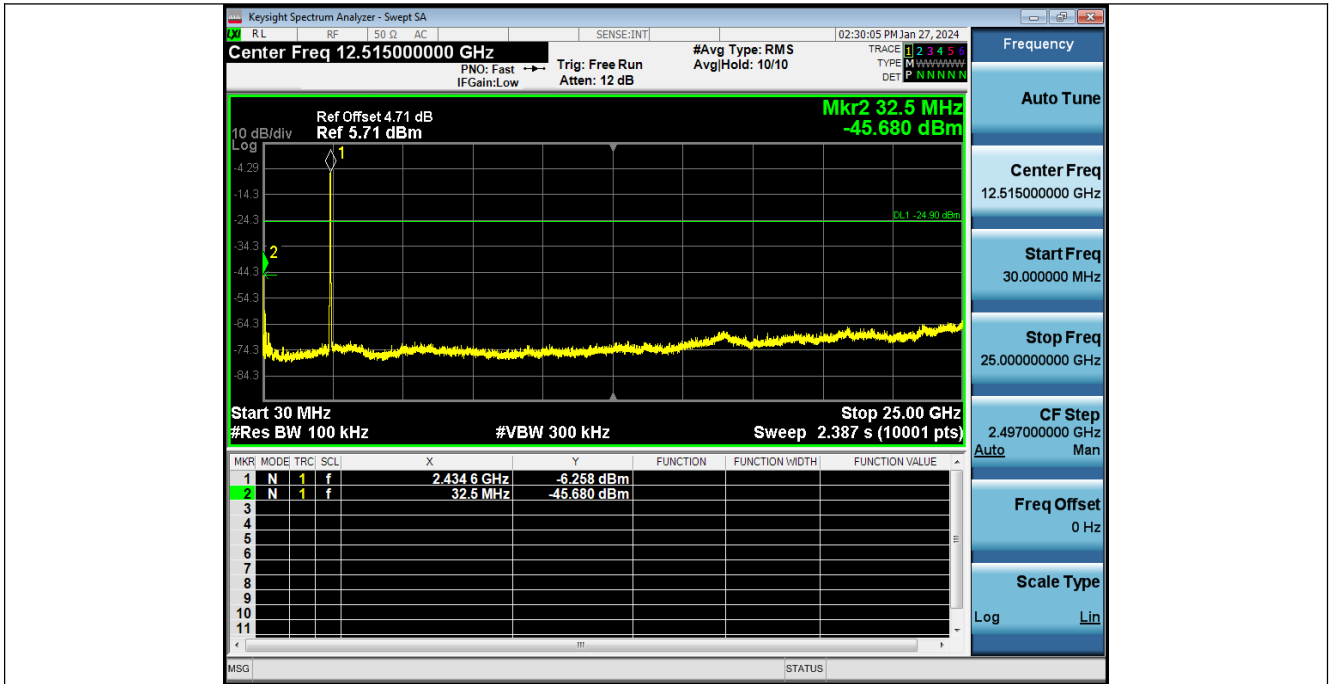
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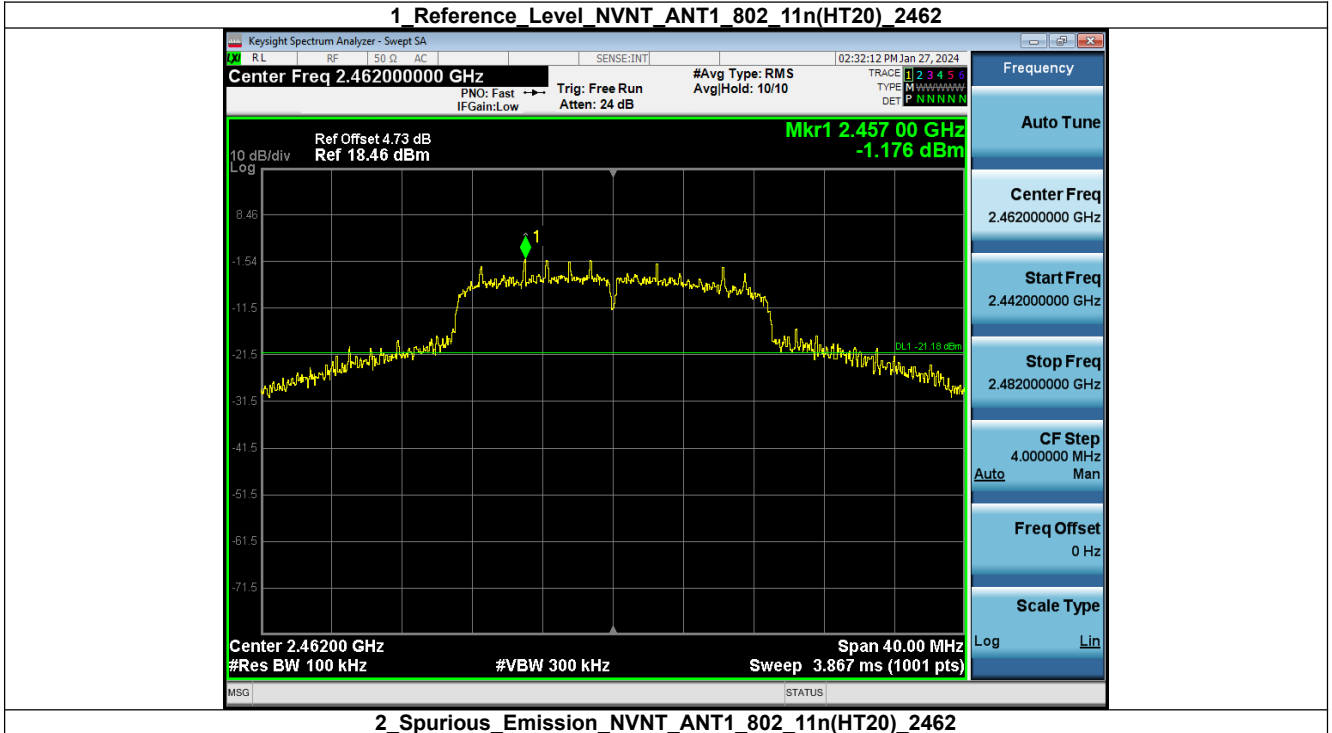
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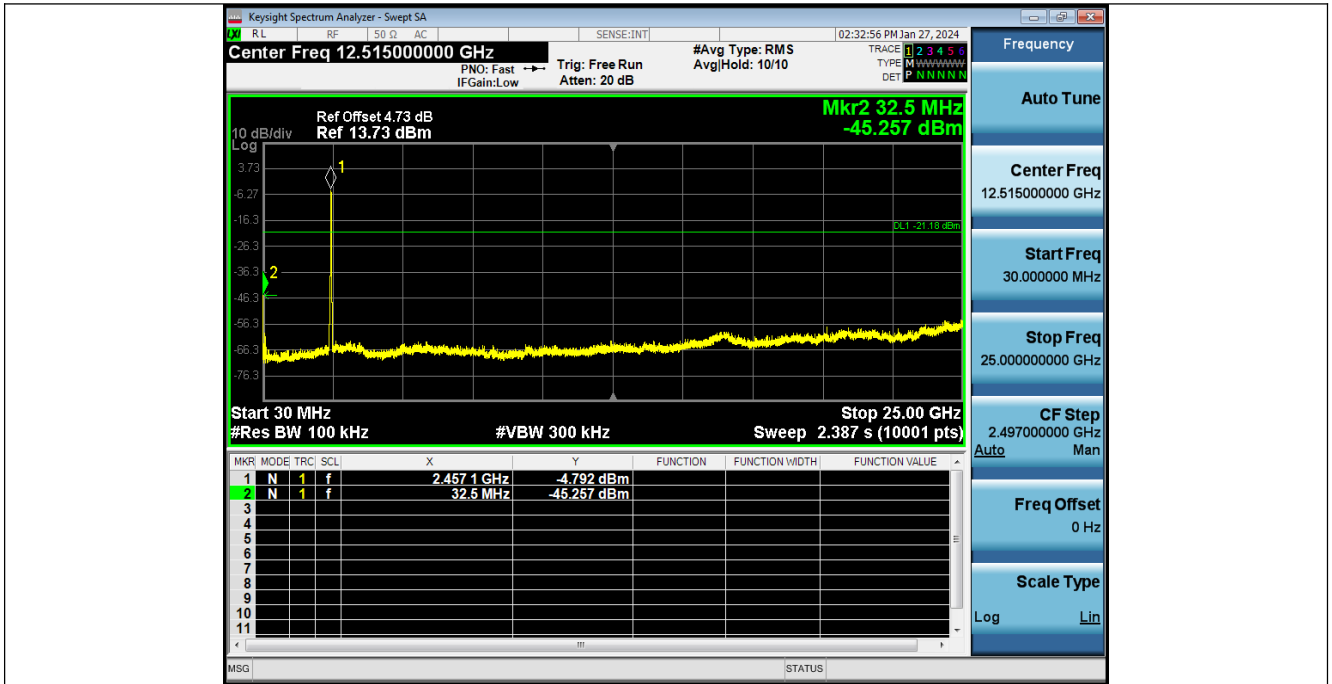
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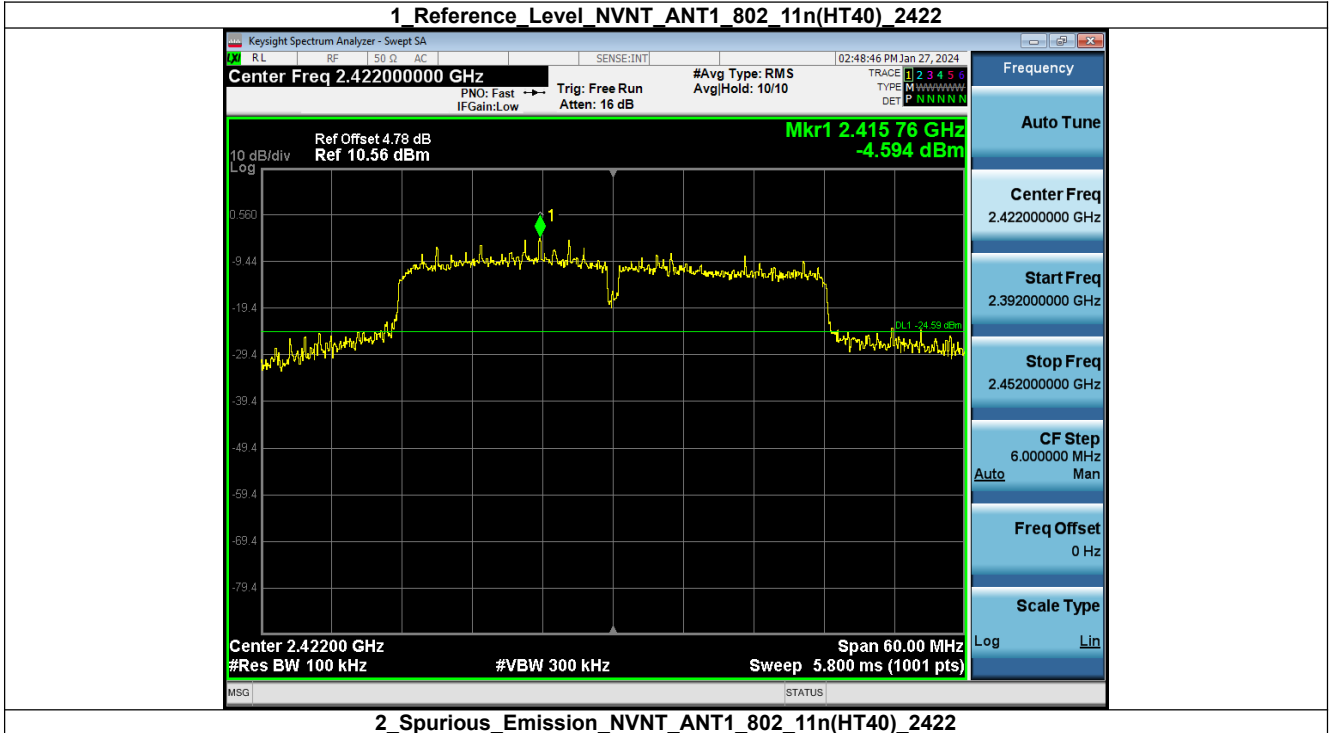
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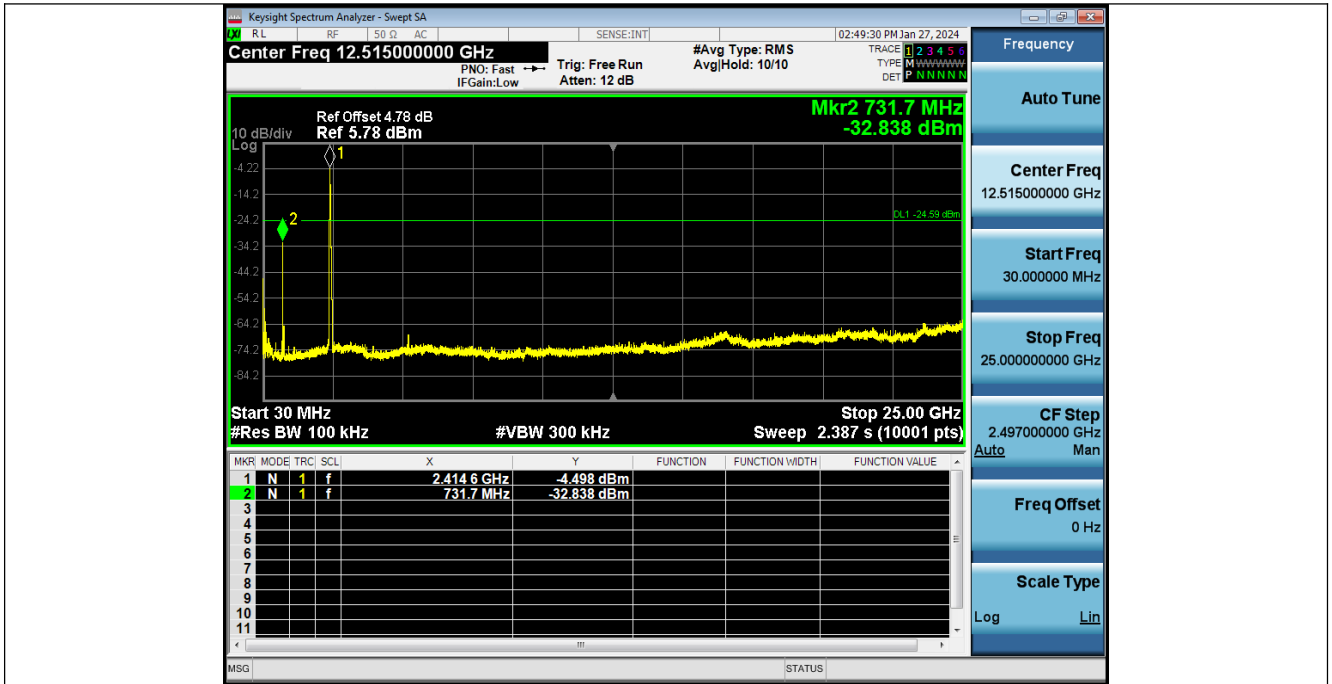
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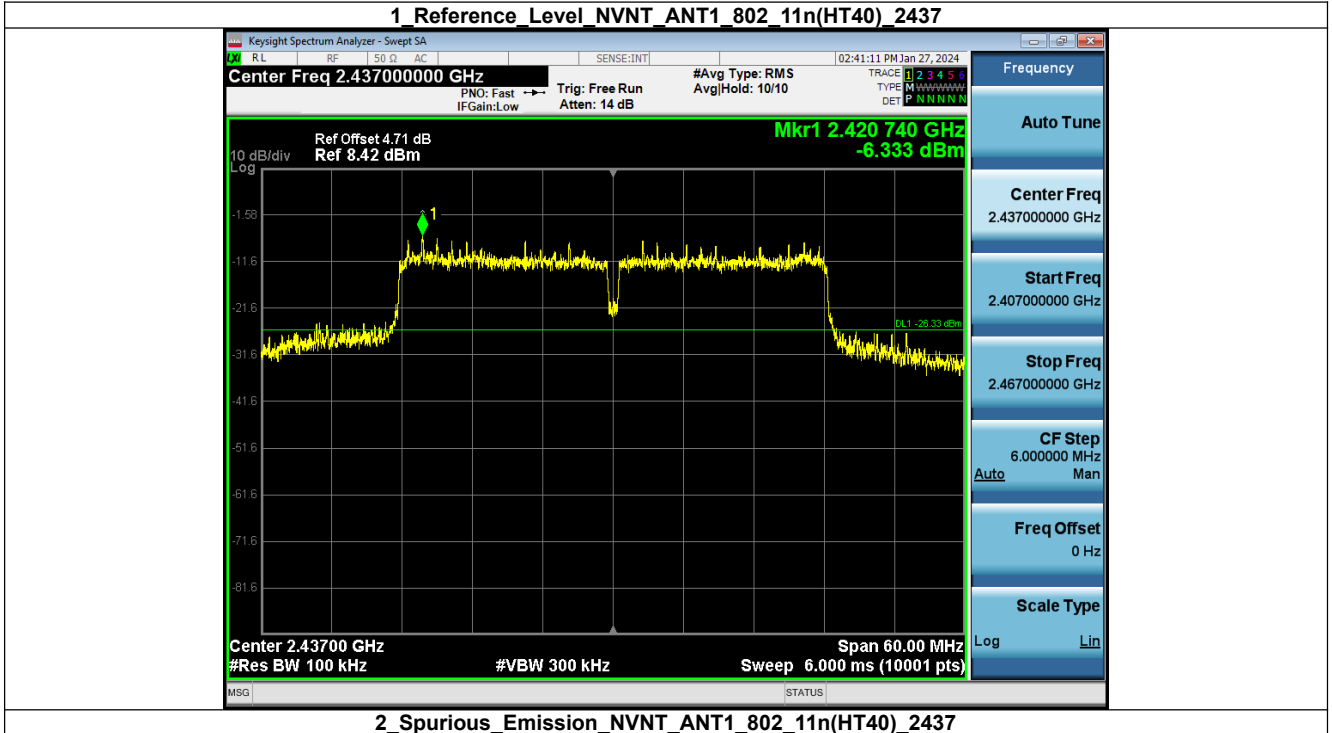
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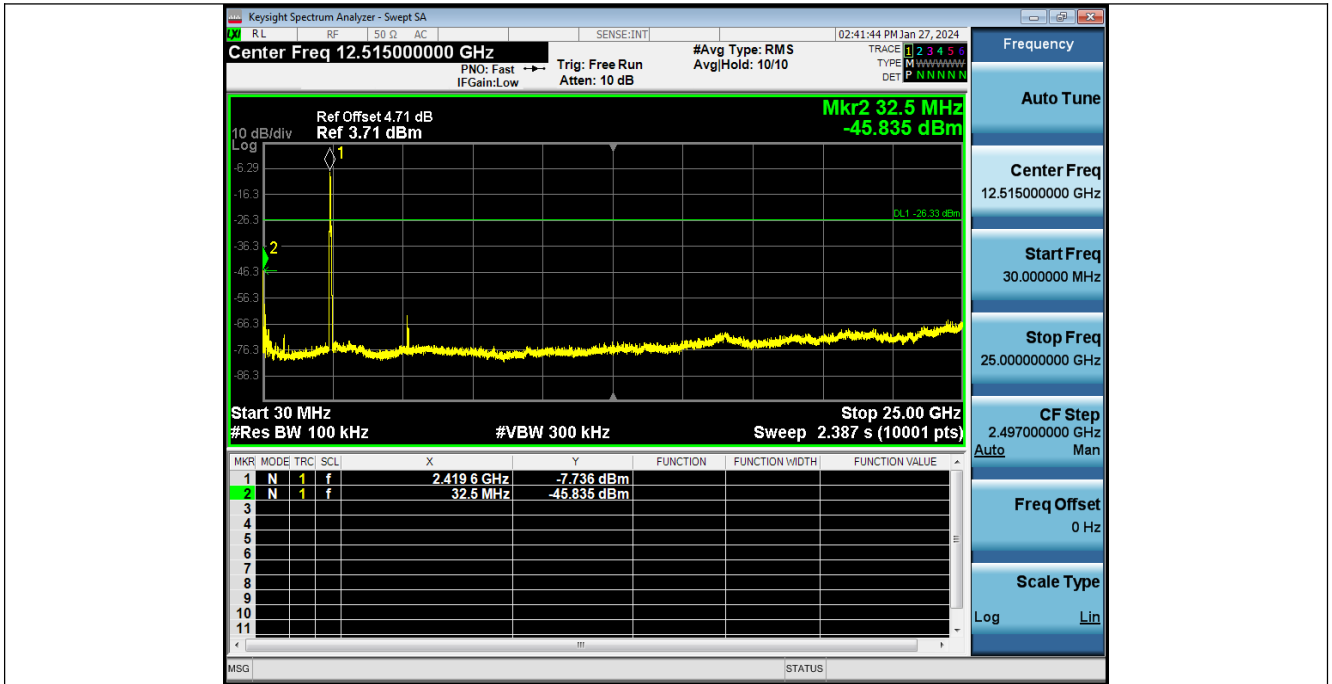
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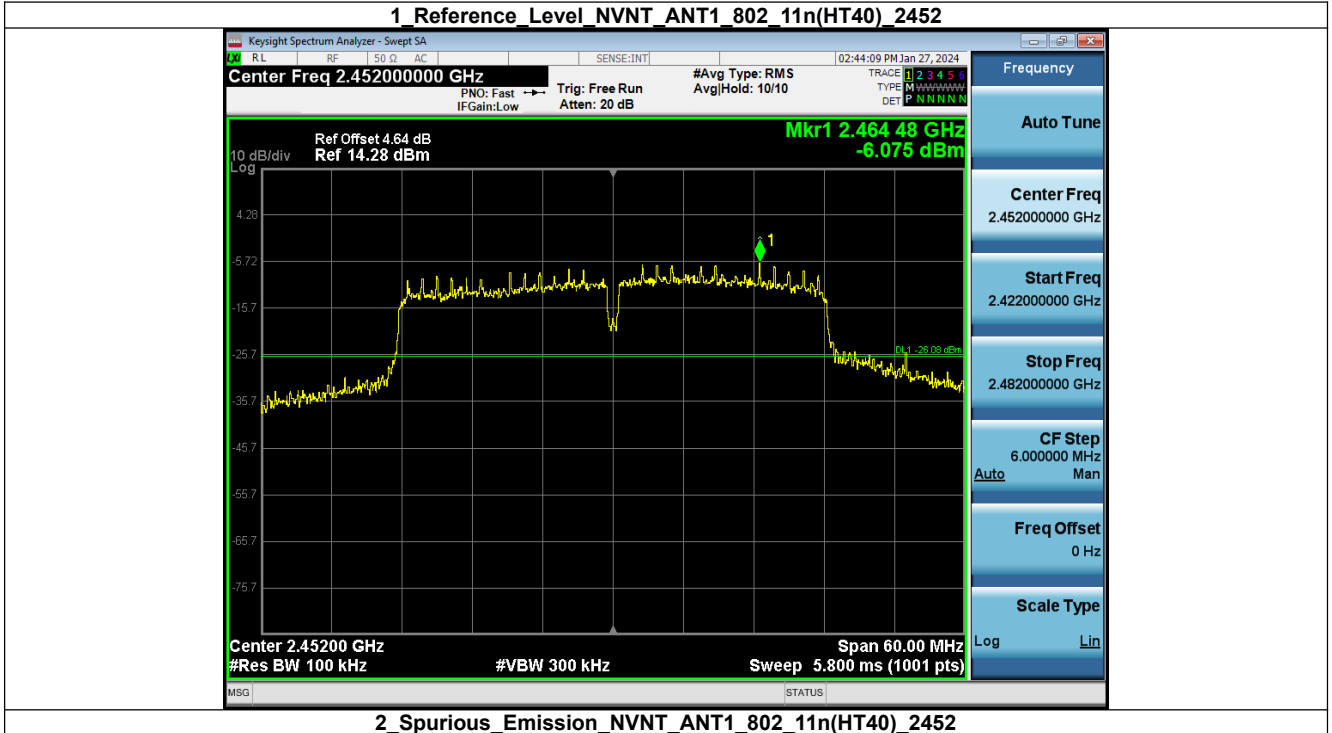
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2437



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

