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FCC ID:2BFZP-M27
FCC ID WIFI2.4
FCC_2.4G_WIFI (Part15.247) Test Data

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1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.19	500	Pass
NVNT	ANT1	802.11b	2437.00	8.73	500	Pass
NVNT	ANT1	802.11b	2462.00	9.19	500	Pass
NVNT	ANT1	802.11g	2412.00	16.40	500	Pass
NVNT	ANT1	802.11g	2437.00	16.49	500	Pass
NVNT	ANT1	802.11g	2462.00	16.38	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.25	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.34	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.27	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.30	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.99	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.17	500	Pass



-6dB Bandwidth_NVNT_ANT1_802_11b_2437



-6dB Bandwidth NVNT_ANT1_802_11b_2462



-6dB Bandwidth NVNT_ANT1_802_11g_2412



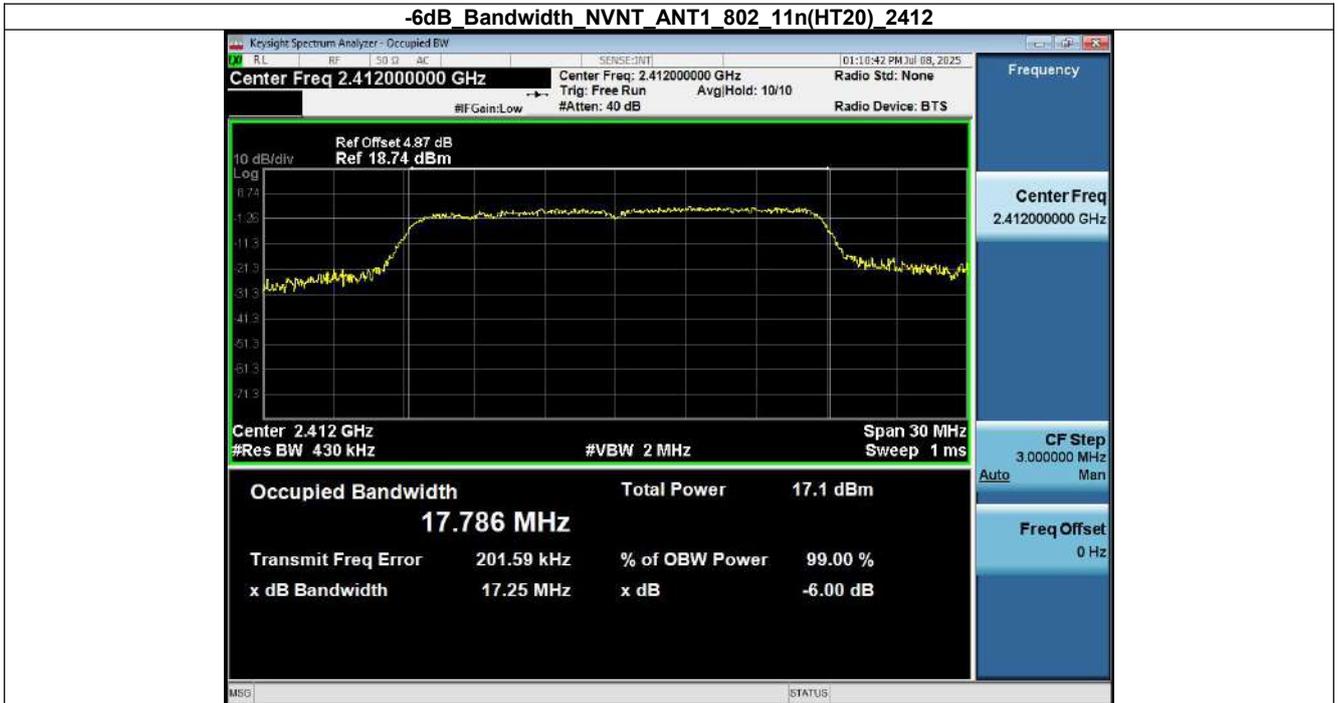
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-6dB Bandwidth NVNT_ANT1_802_11g_2462



-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

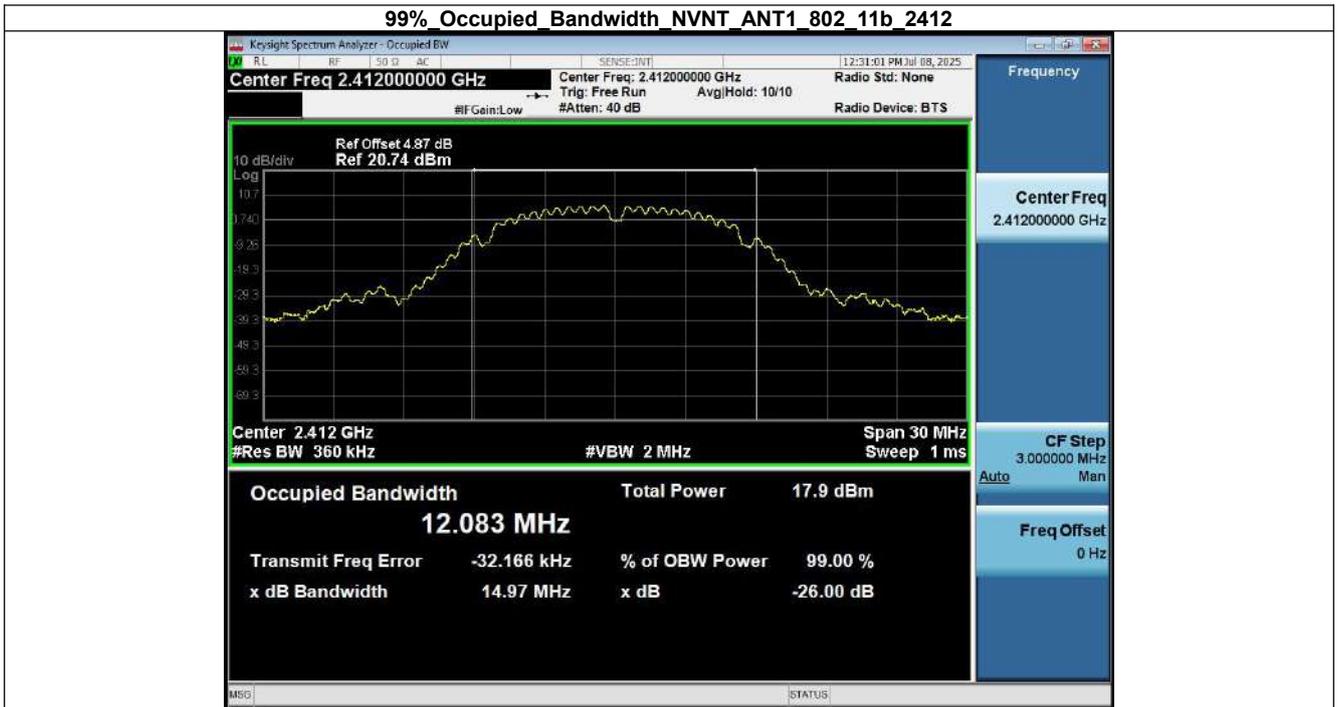


-6dB Bandwidth NVNT_ANT1_802_11n(HT40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	12.083
NVNT	ANT1	802.11b	2437.00	12.597
NVNT	ANT1	802.11b	2462.00	12.096
NVNT	ANT1	802.11g	2412.00	17.107
NVNT	ANT1	802.11g	2437.00	17.224
NVNT	ANT1	802.11g	2462.00	17.226
NVNT	ANT1	802.11n(HT20)	2412.00	17.889
NVNT	ANT1	802.11n(HT20)	2437.00	17.867
NVNT	ANT1	802.11n(HT20)	2462.00	17.802
NVNT	ANT1	802.11n(HT40)	2422.00	36.673
NVNT	ANT1	802.11n(HT40)	2437.00	36.471
NVNT	ANT1	802.11n(HT40)	2452.00	36.613



99% Occupied Bandwidth NVNT ANT1 802_11b_2437



99% Occupied Bandwidth_NVNT_ANT1_802_11b_2462



99% Occupied Bandwidth_NVNT_ANT1_802_11g_2412



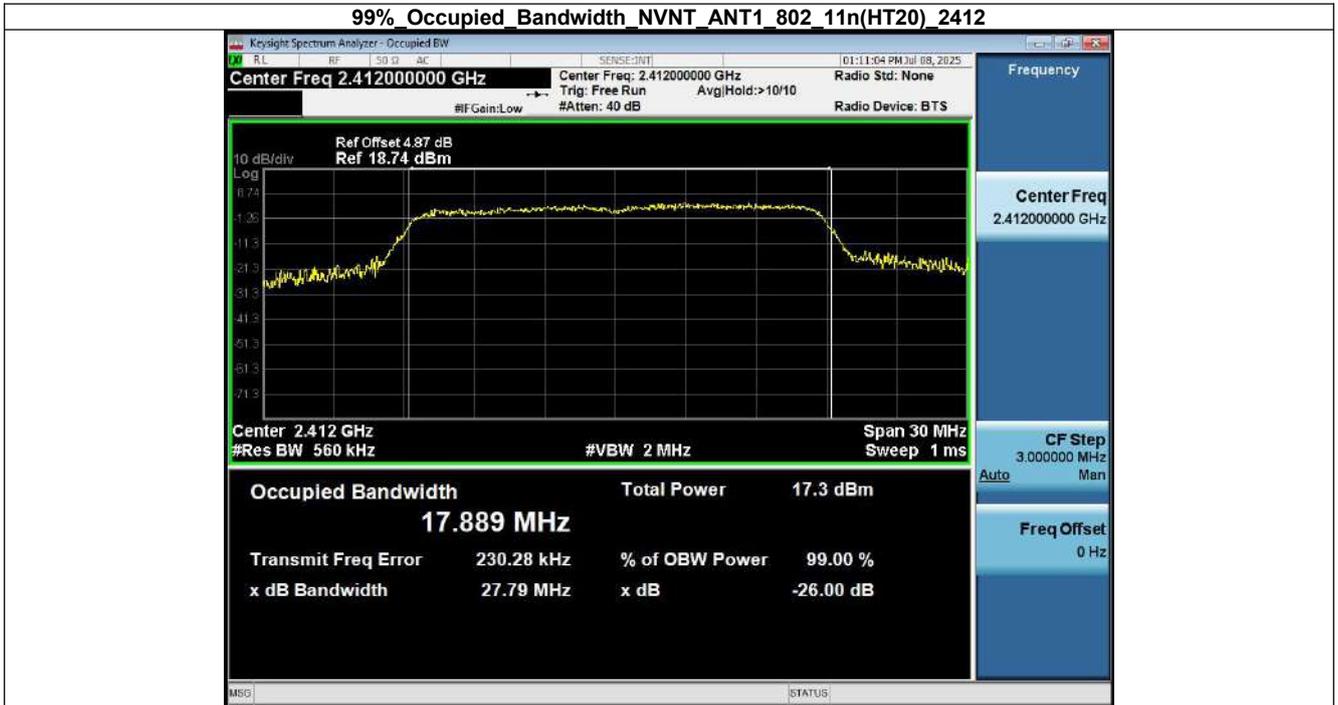
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99% Occupied Bandwidth_NVNT_ANT1_802_11g_2462



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

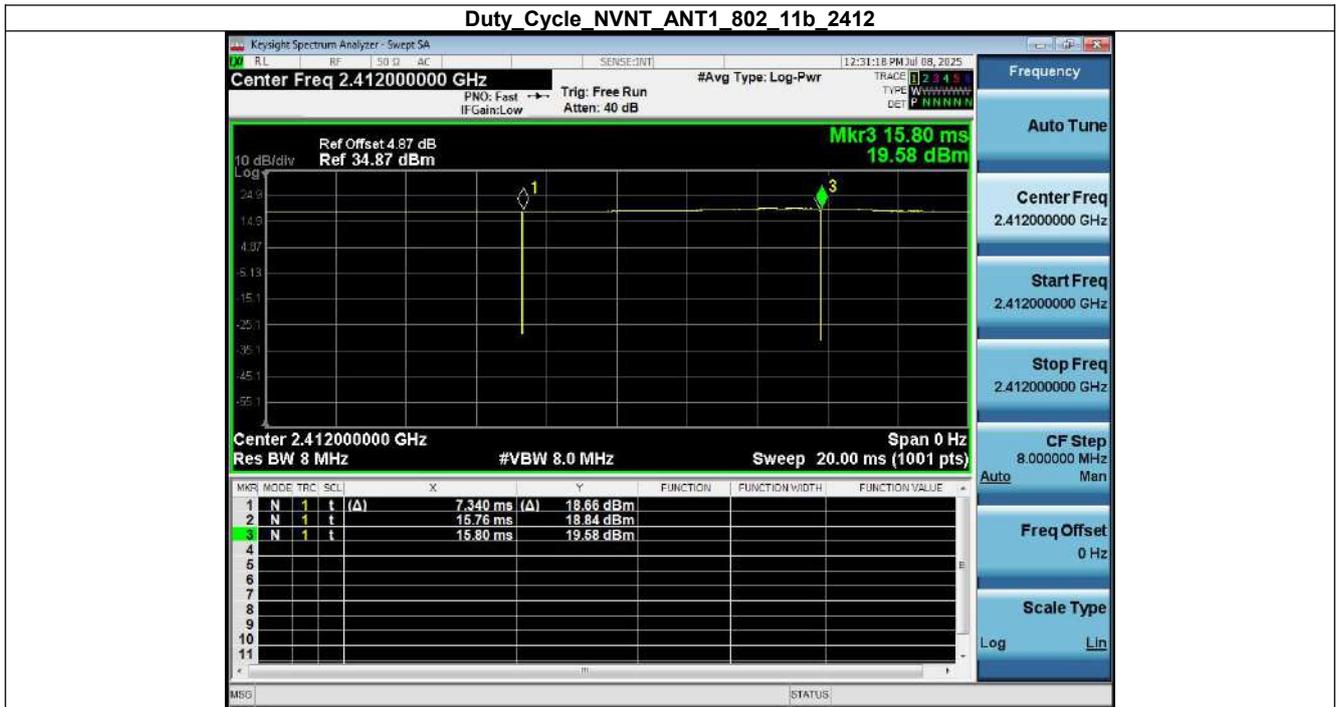


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

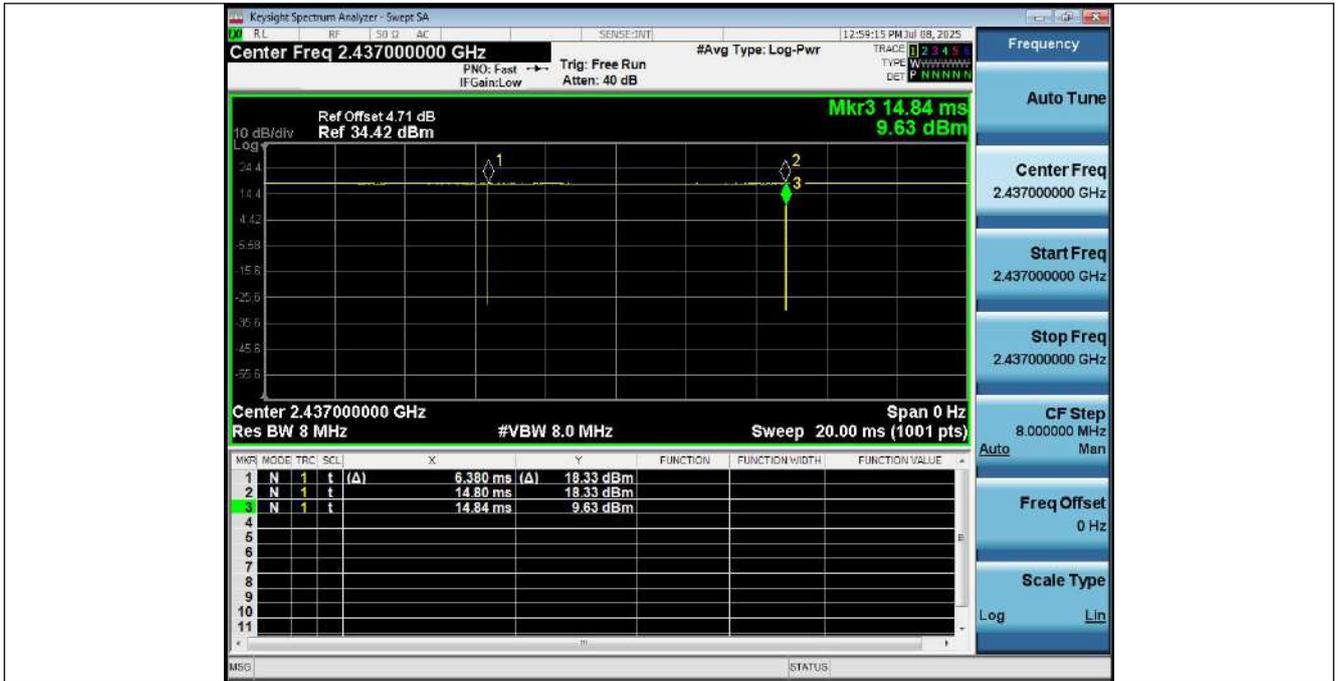


3. Duty Cycle

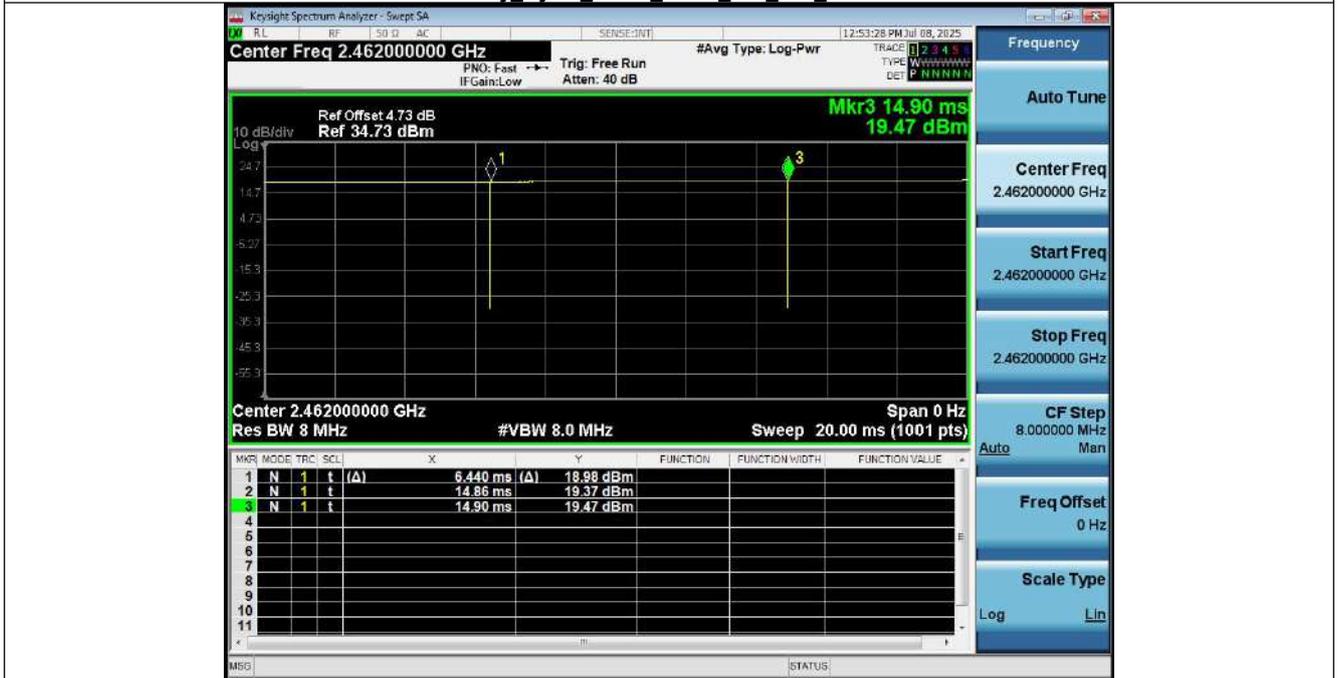
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.76	0.00
NVNT	ANT1	802.11b	2462.00	99.76	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	98.36	0.00
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	96.88	0.14
NVNT	ANT1	802.11n(HT40)	2437.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2452.00	93.75	0.28



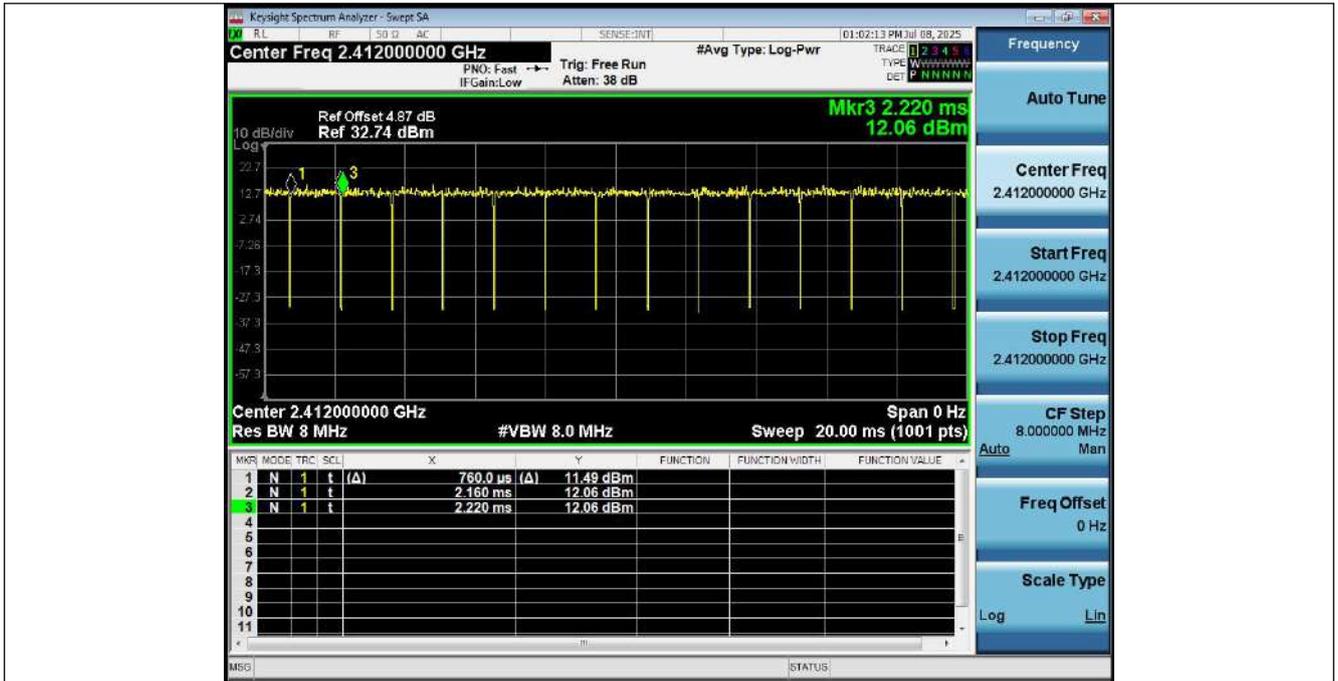
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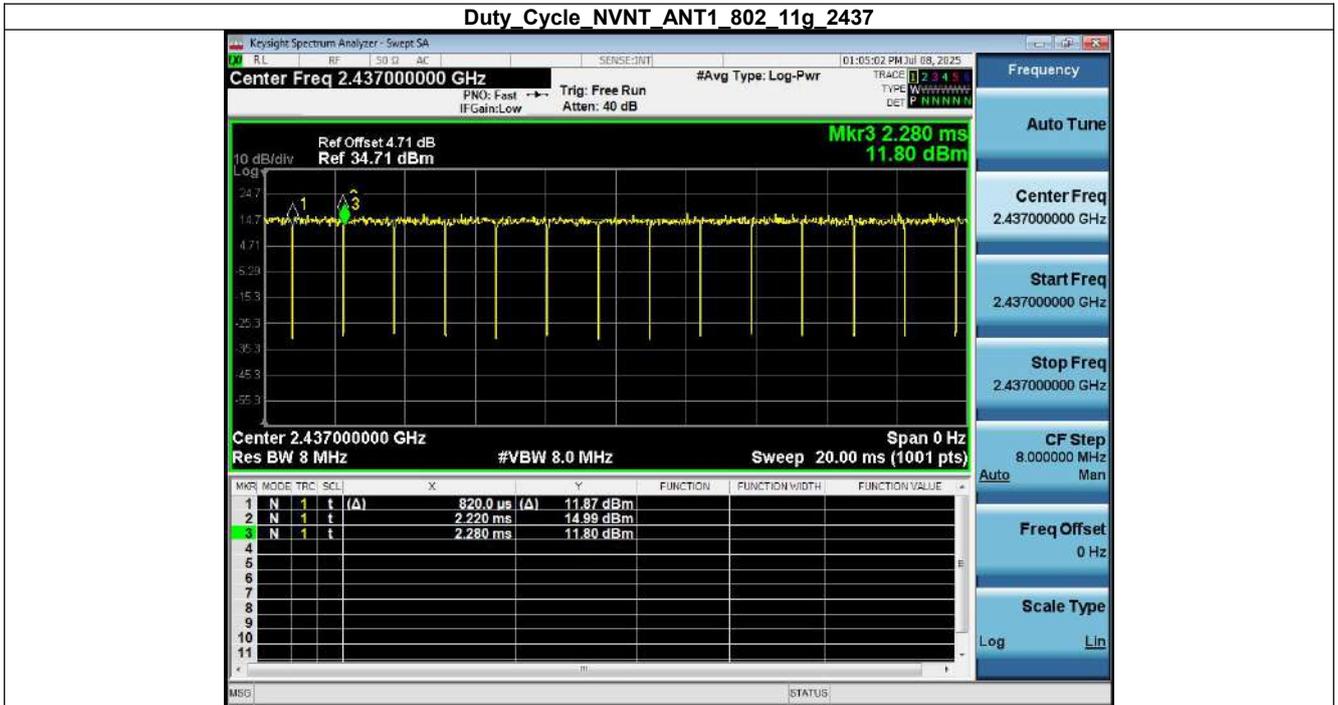
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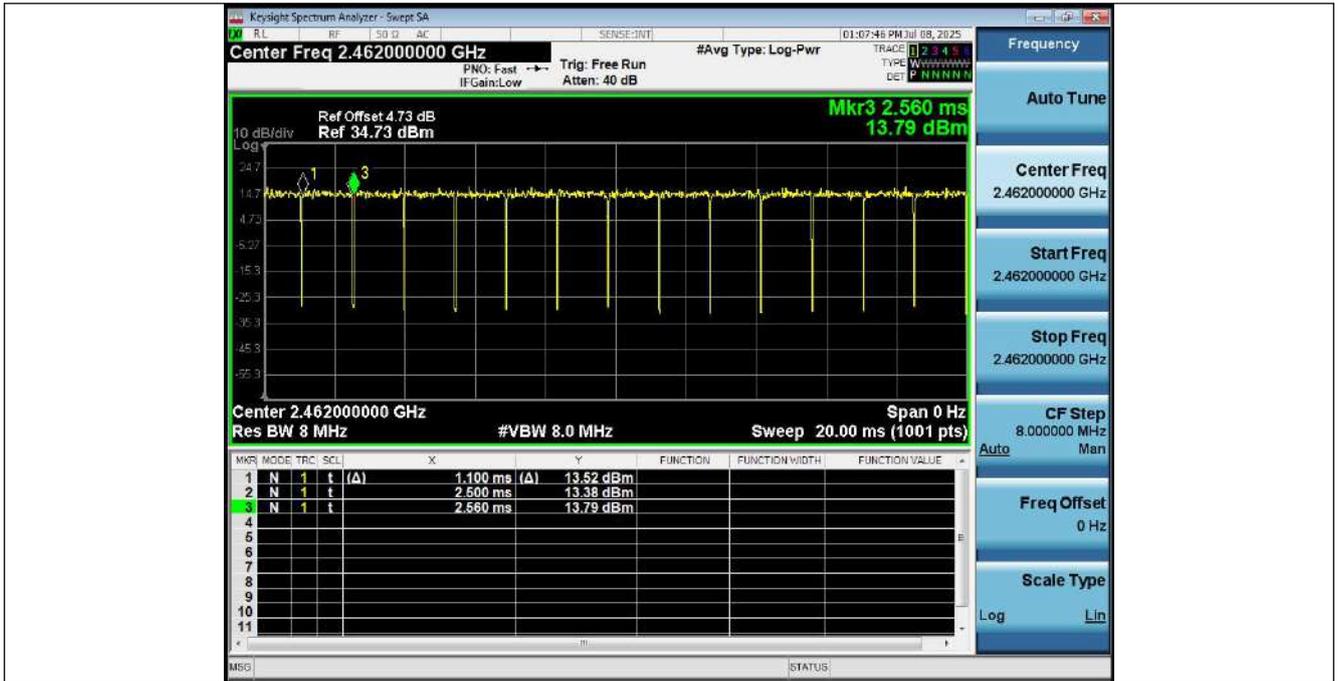
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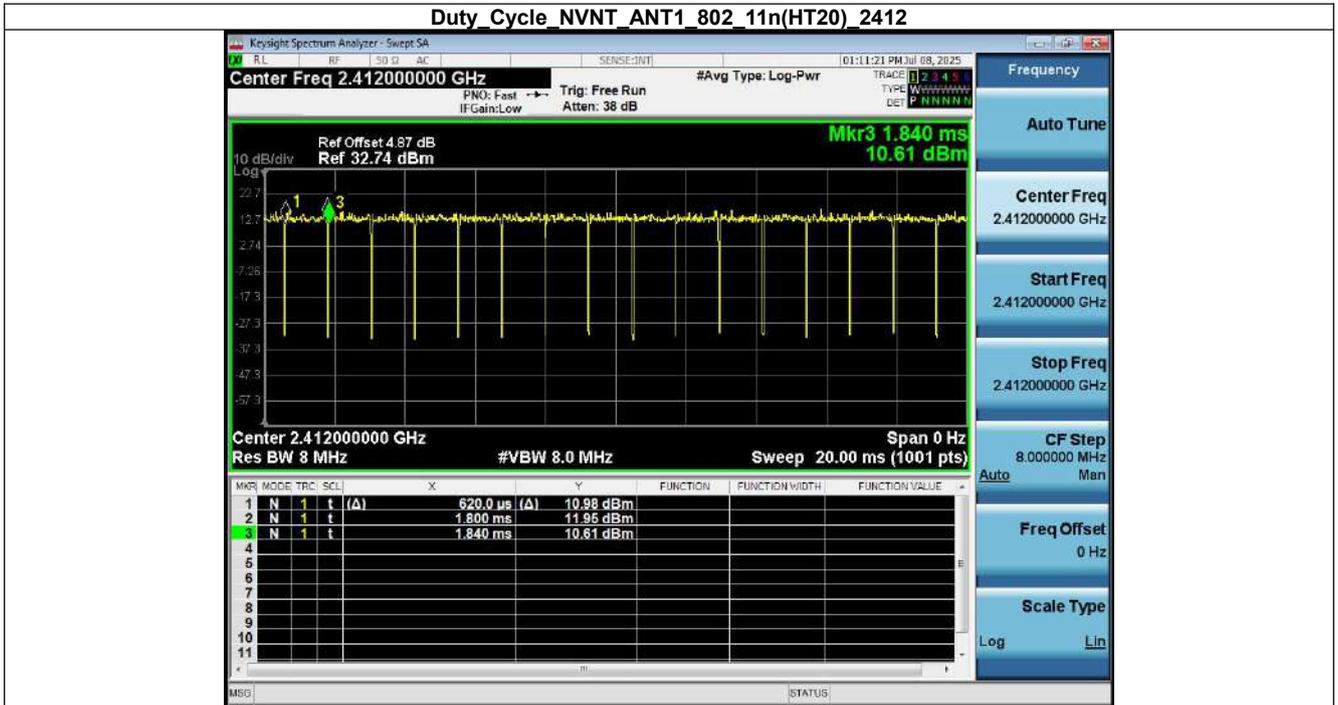
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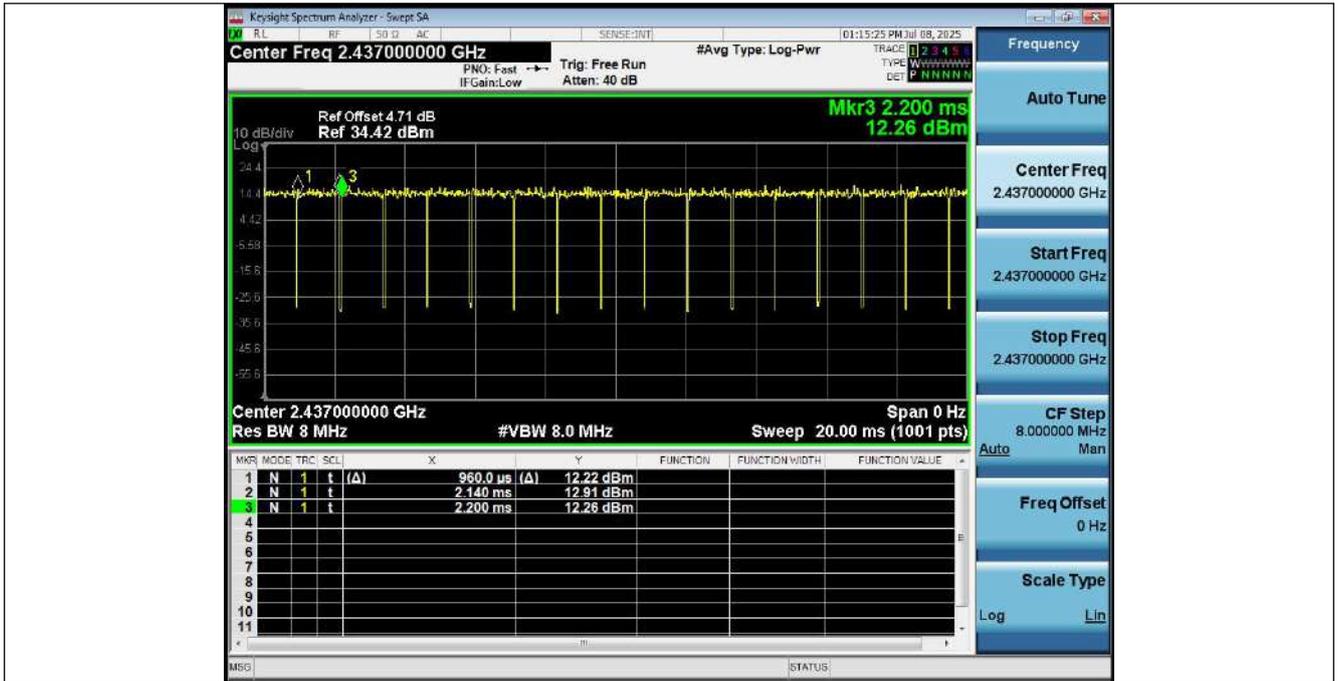
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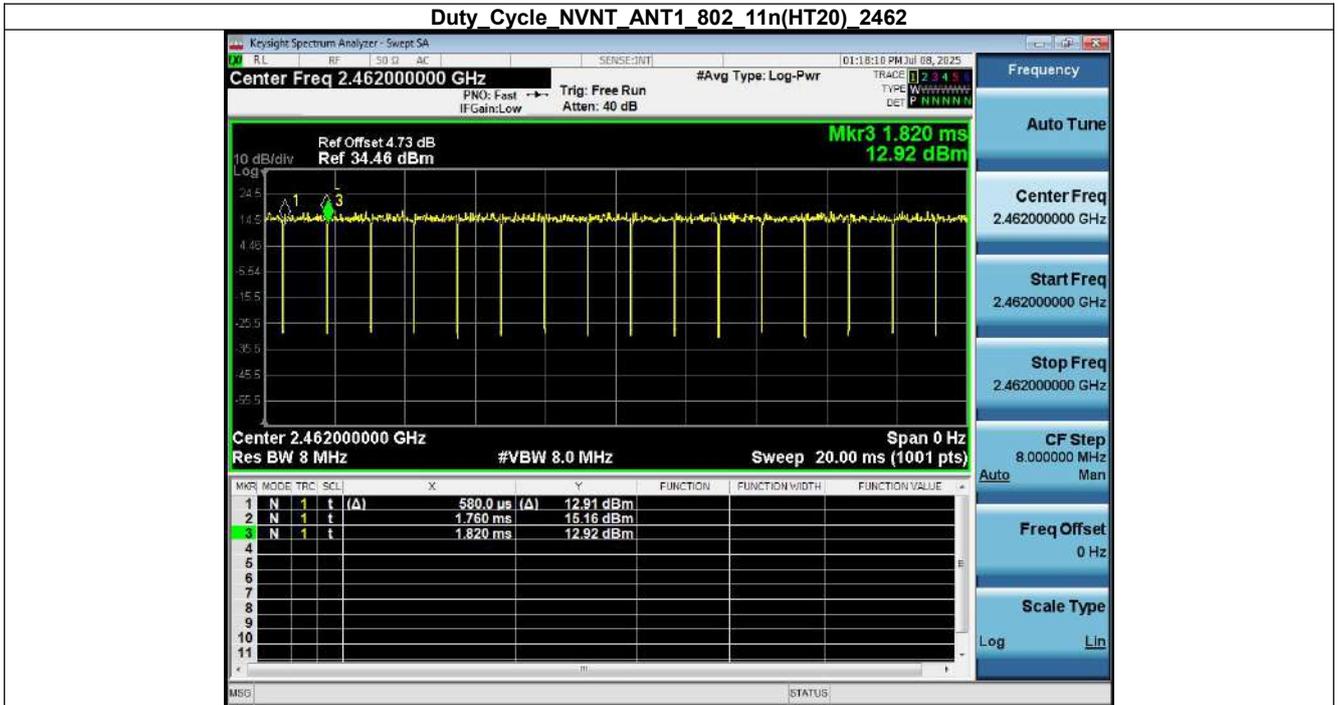
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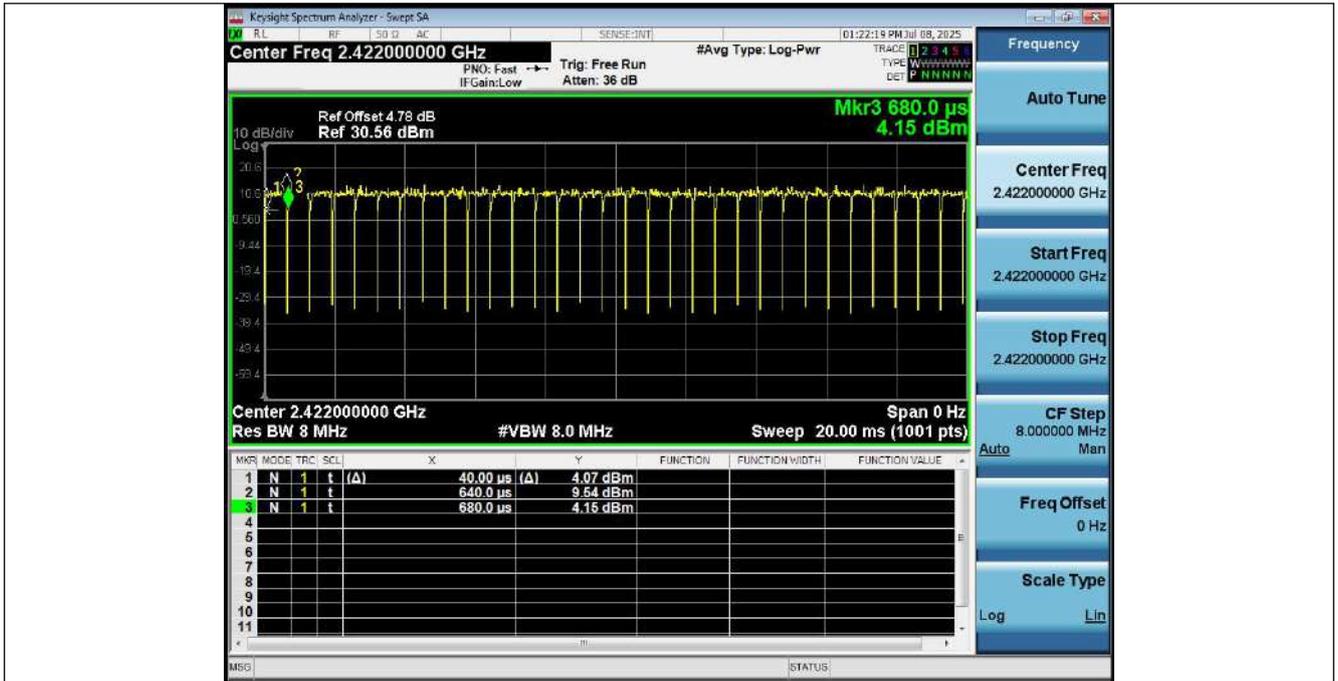
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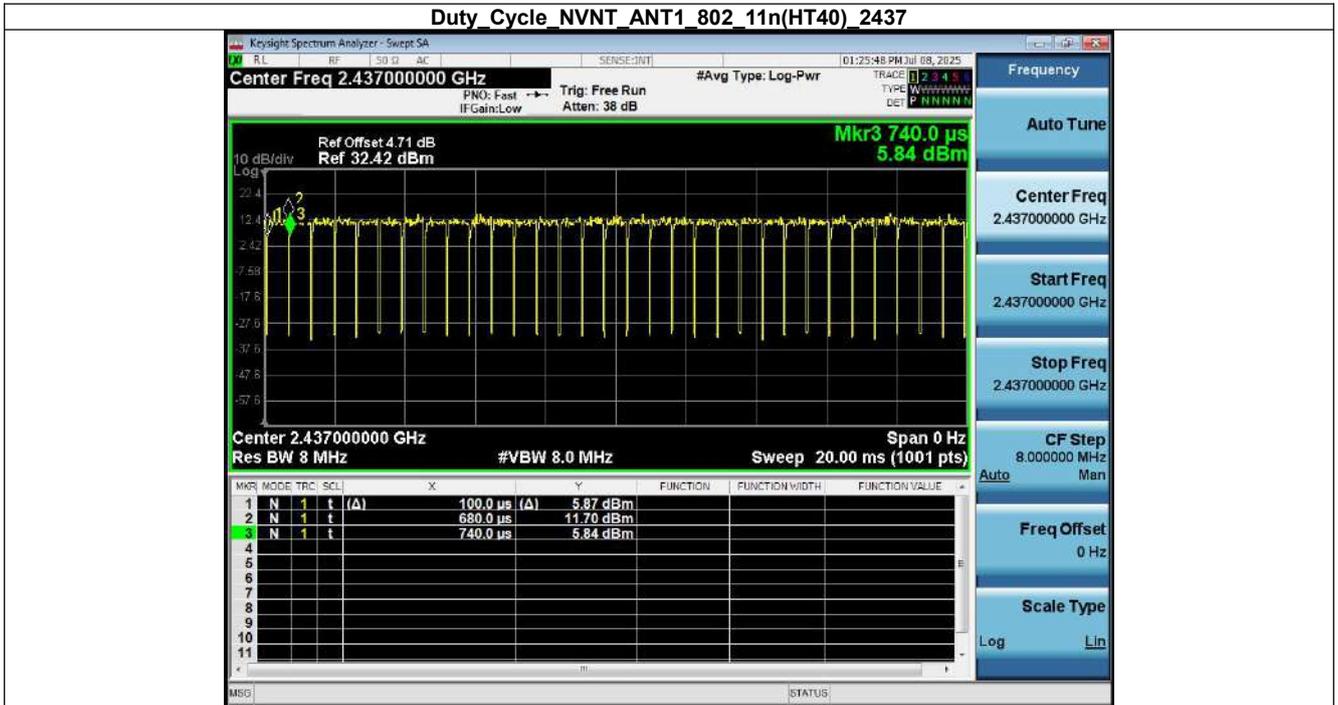
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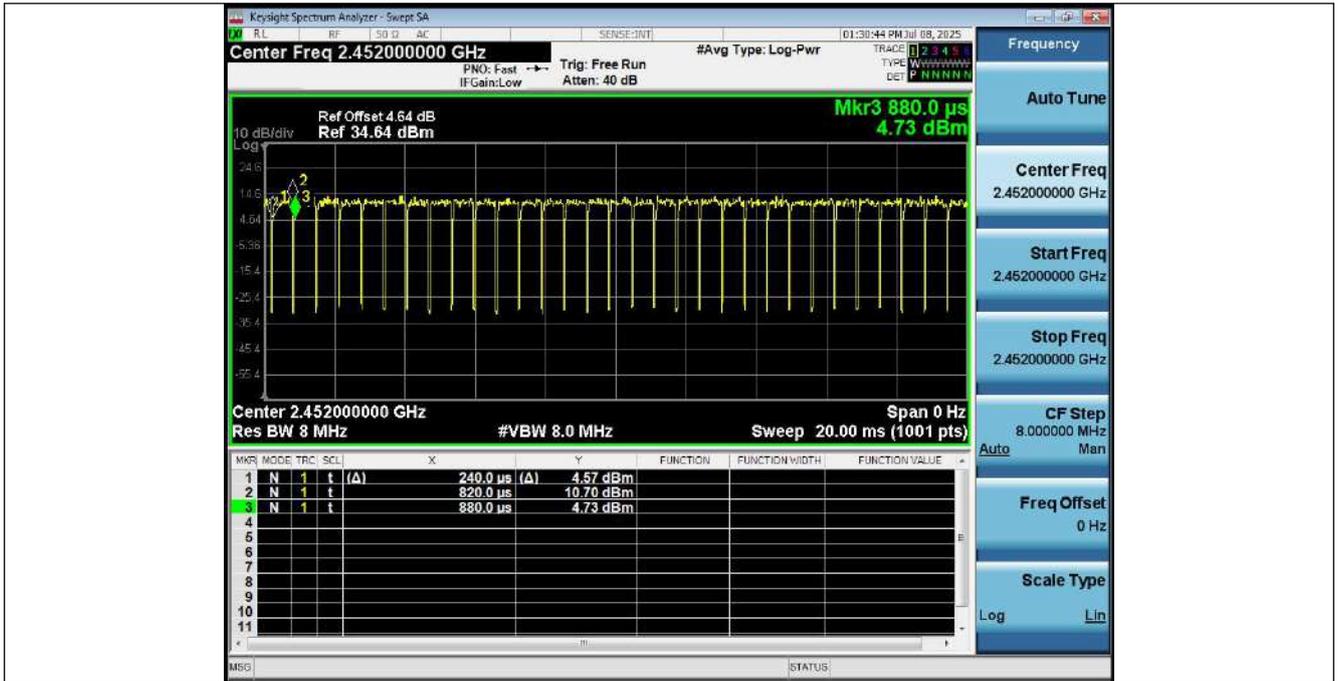
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



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)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	7.03	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	7.38	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	7.86	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	5.75	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	6.87	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	7.09	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	6.85	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	8.16	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	8.48	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	7.91	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	8.22	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	8.16	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/3kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	2.85	N/A	-10.00	-7.15	8	Pass
NVNT	ANT1	802.11b	2437.00	2.65	N/A	-10.00	-7.35	8	Pass
NVNT	ANT1	802.11b	2462.00	2.98	N/A	-10.00	-7.02	8	Pass
NVNT	ANT1	802.11g	2412.00	-6.02	N/A	-10.00	-16.02	8	Pass
NVNT	ANT1	802.11g	2437.00	-5.23	N/A	-10.00	-15.23	8	Pass
NVNT	ANT1	802.11g	2462.00	-4.04	N/A	-10.00	-14.04	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-5.83	N/A	-10.00	-15.83	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-5.48	N/A	-10.00	-15.48	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-4.52	N/A	-10.00	-14.52	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-8.19	N/A	-10.00	-18.19	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-8.10	N/A	-10.00	-18.10	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-7.94	N/A	-10.00	-17.94	8	Pass



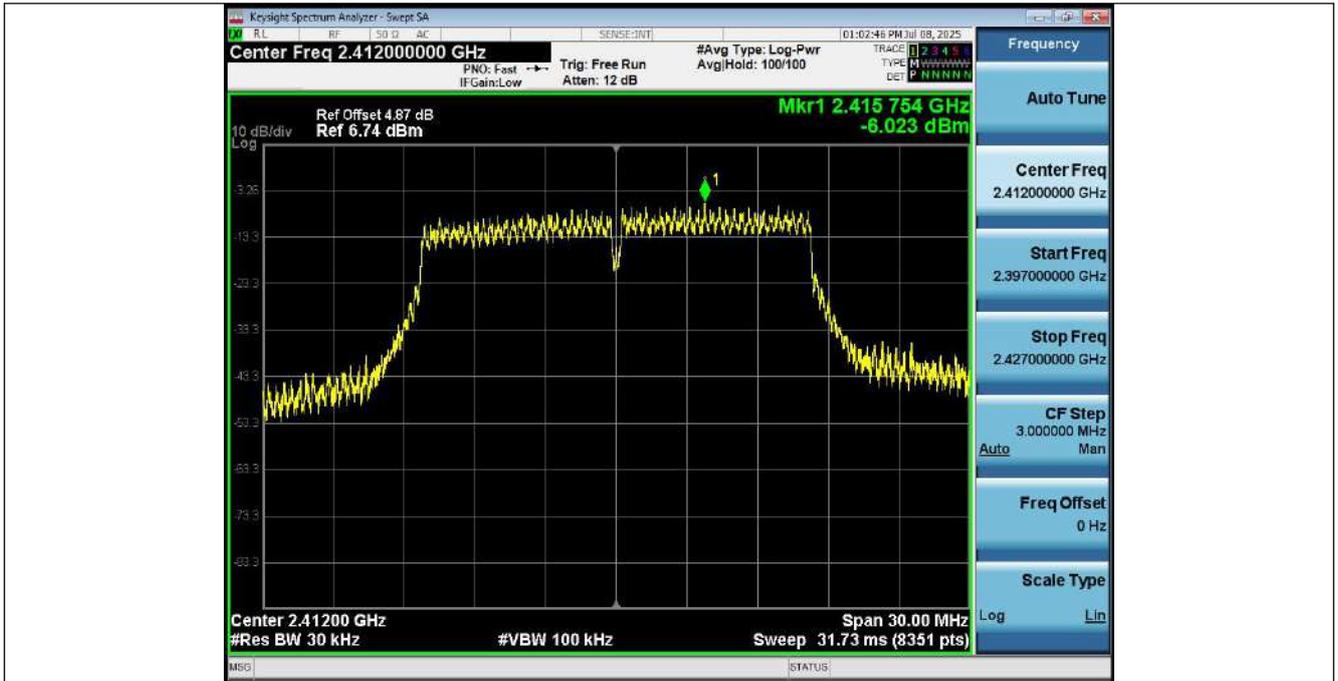
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Power_Spectral_Density_NVNT_ANT1_802_11b_2462



Power_Spectral_Density_NVNT_ANT1_802_11g_2412



Power_Spectral_Density_NVNT_ANT1_802_11g_2437



Power_Spectral_Density_NVNT_ANT1_802_11g_2462



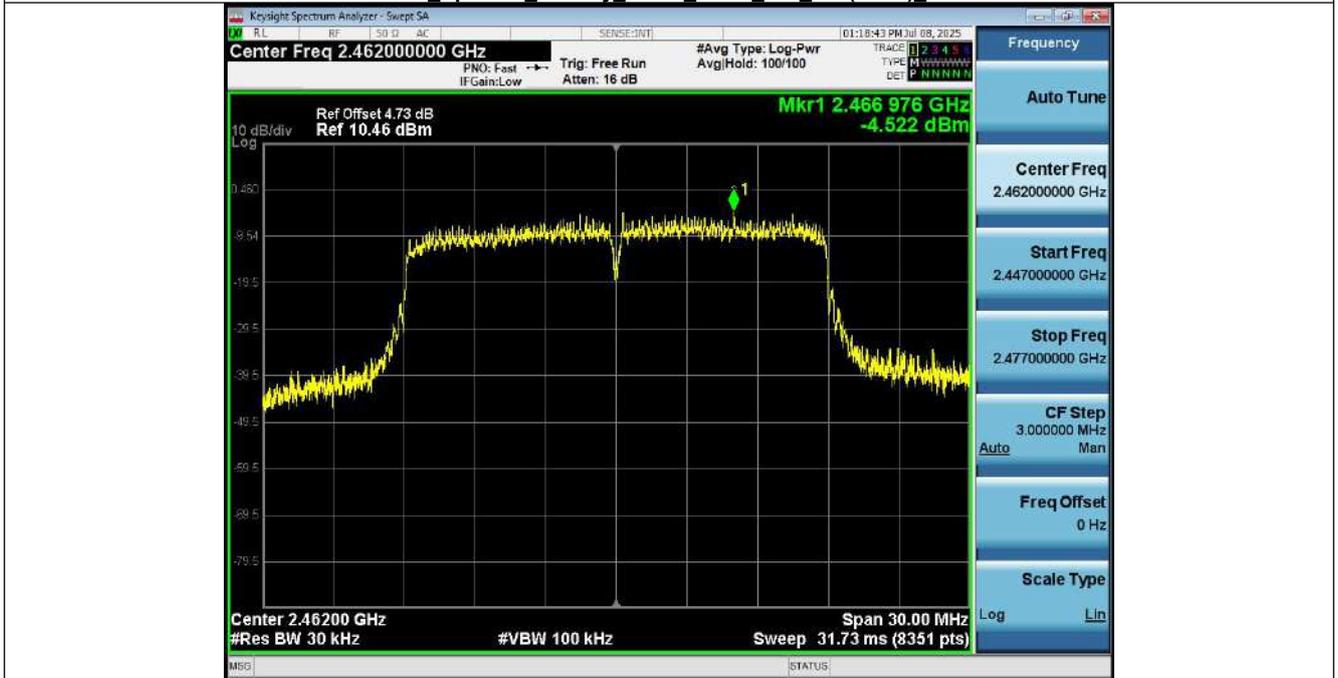
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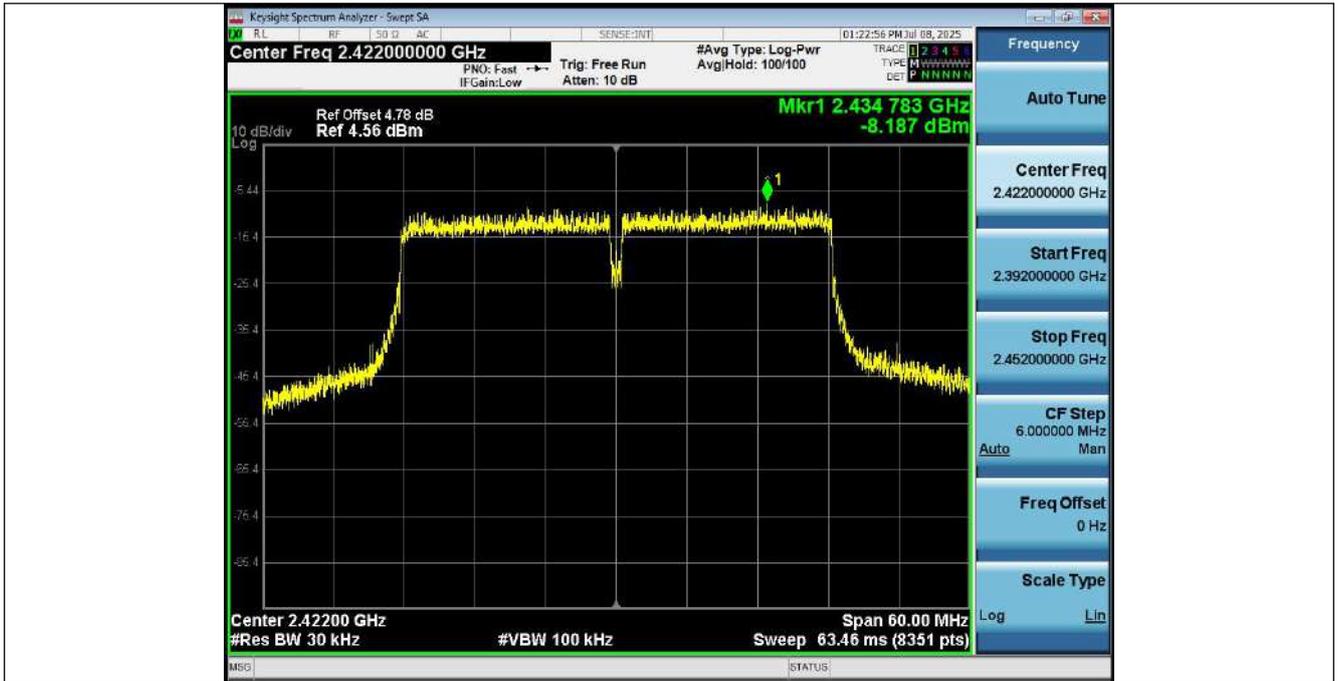
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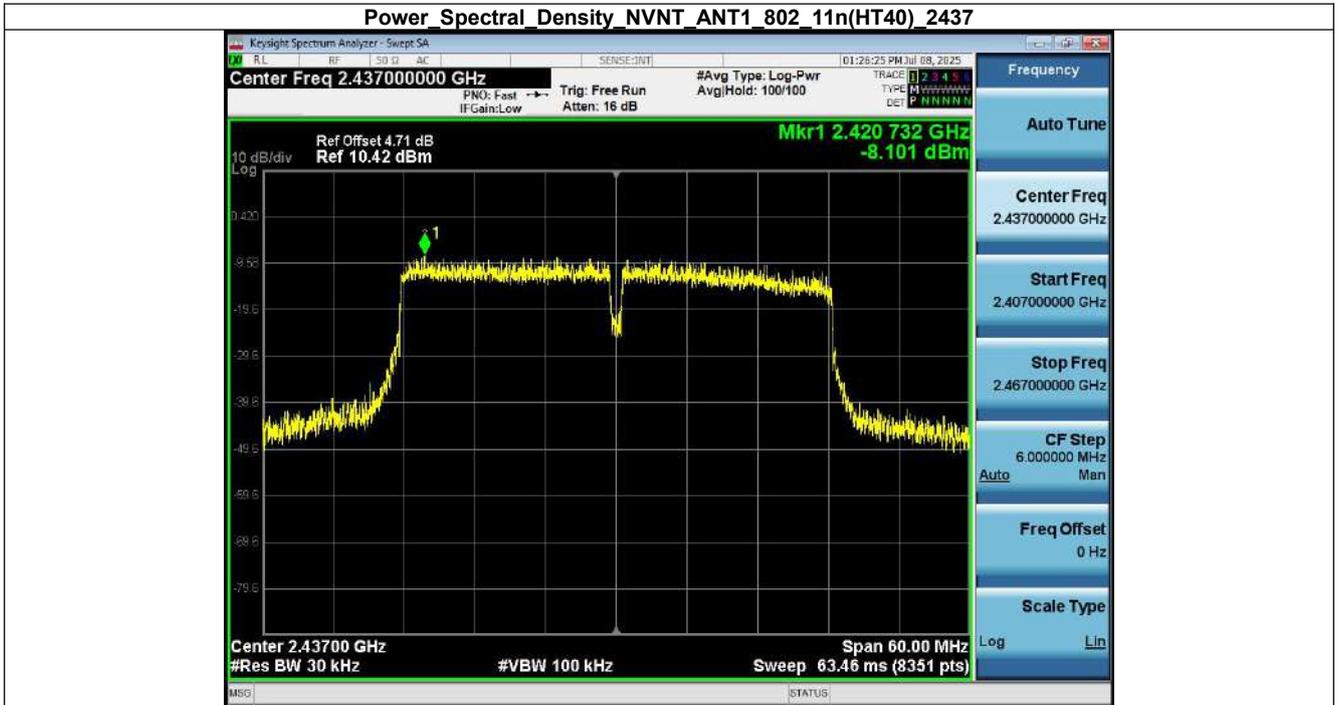
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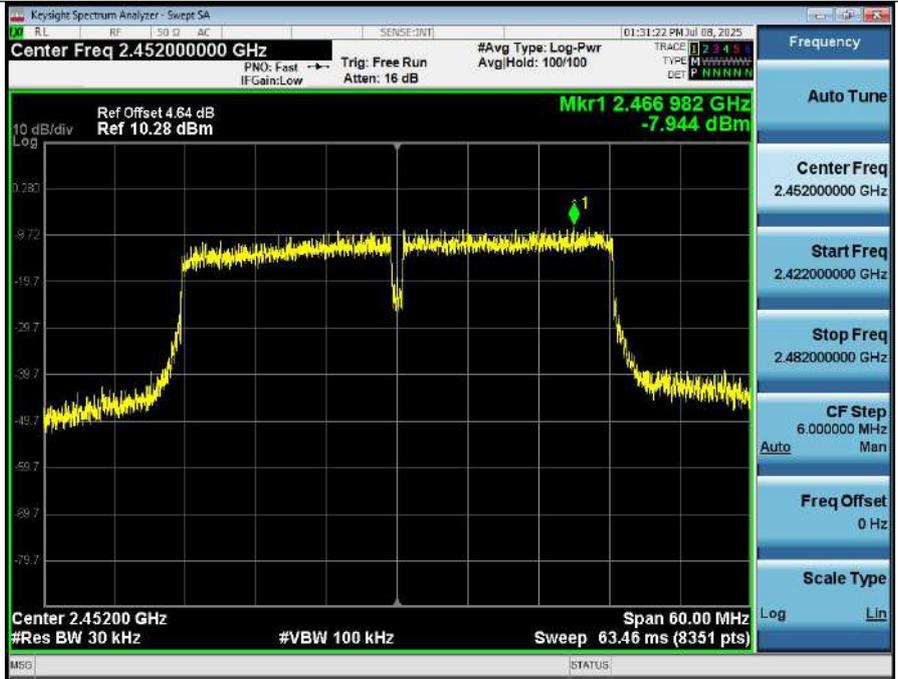
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Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2437



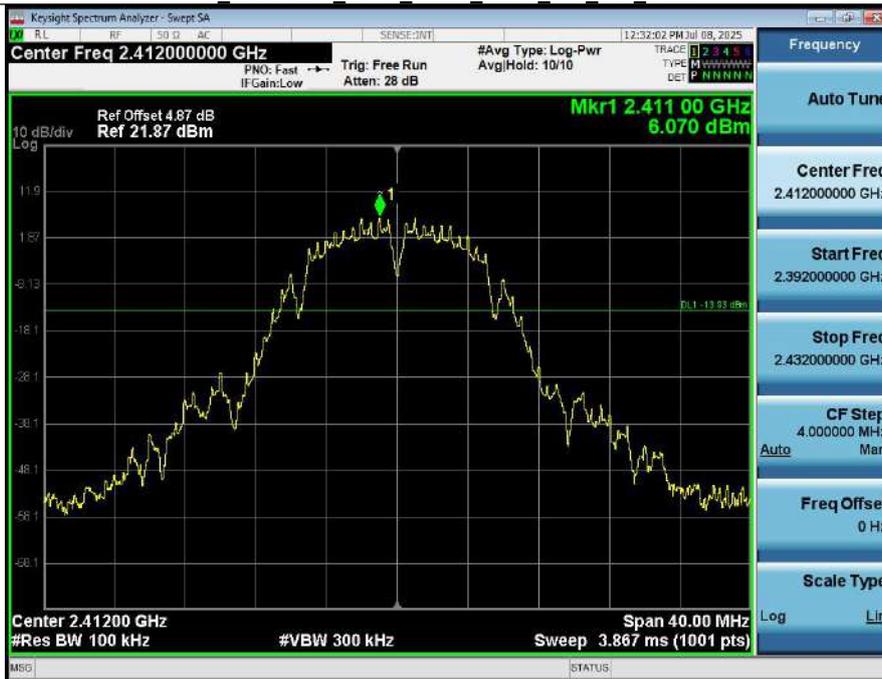
Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2452



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	6.070	-35.541	-13.930	Pass
NVNT	ANT1	802.11b	2462.00	2484.640	6.915	-52.517	-13.085	Pass
NVNT	ANT1	802.11g	2412.00	2399.264	-1.702	-36.197	-21.702	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	-0.330	-41.383	-20.330	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	-1.228	-32.655	-21.228	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.448	-0.086	-39.913	-20.086	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-3.592	-34.641	-23.592	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-3.002	-36.364	-23.002	Pass

1 Reference Level NVNT ANT1 802 11b 2412



2 Bandedge_NVNT_ANT1_802_11b_2412



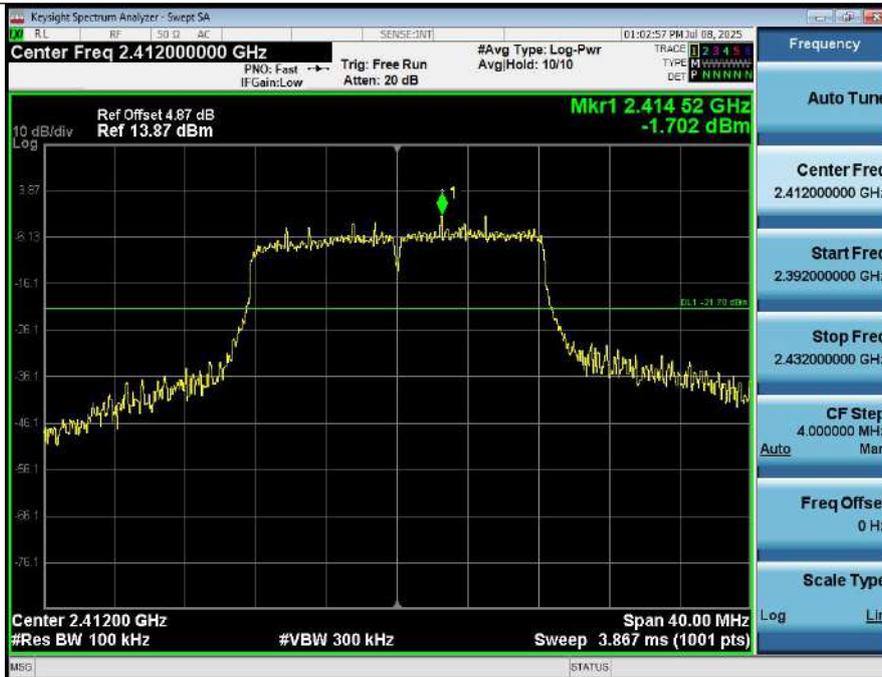
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1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



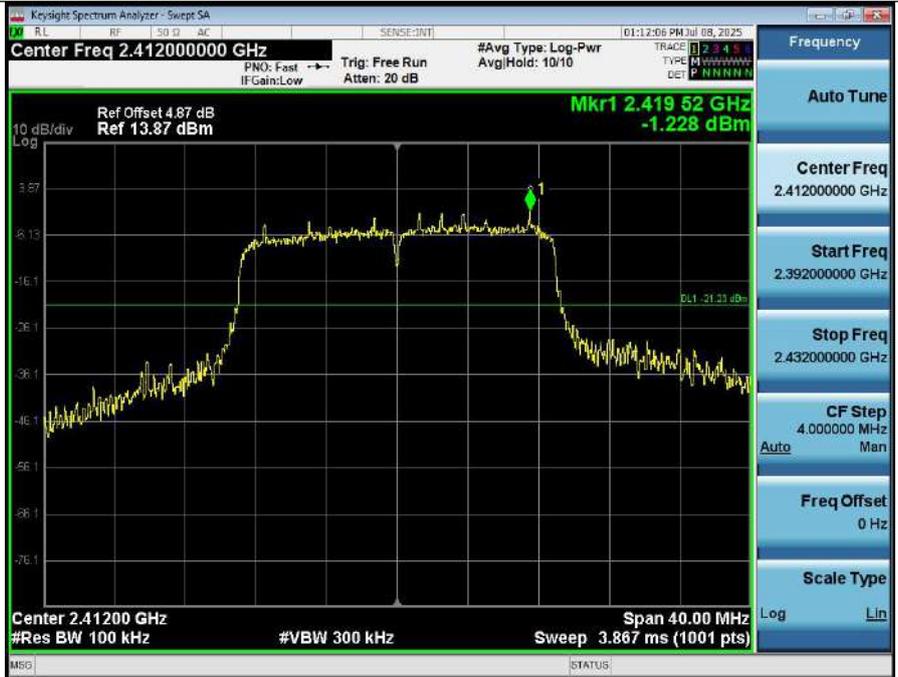
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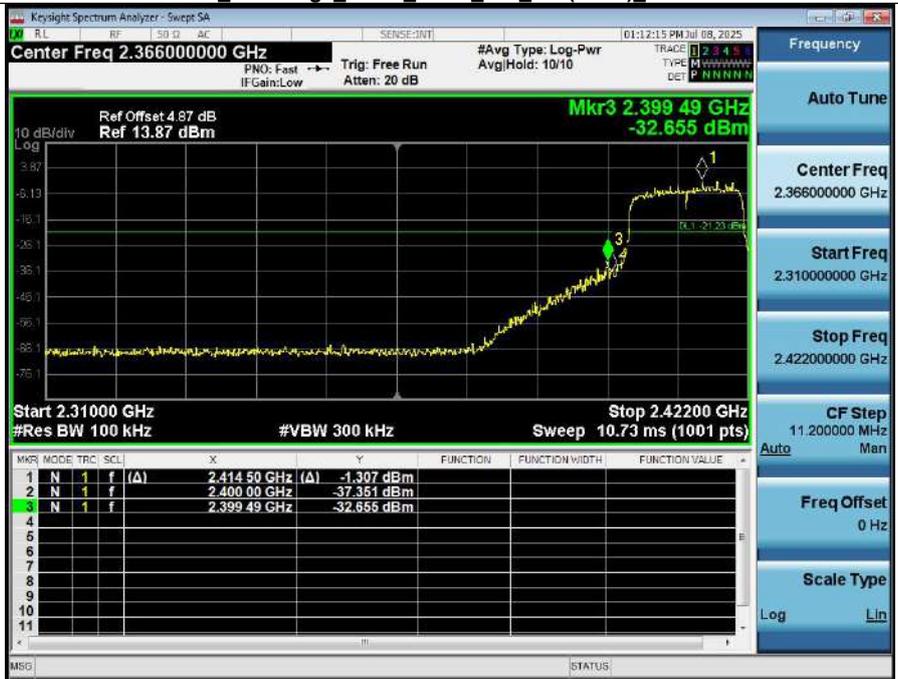
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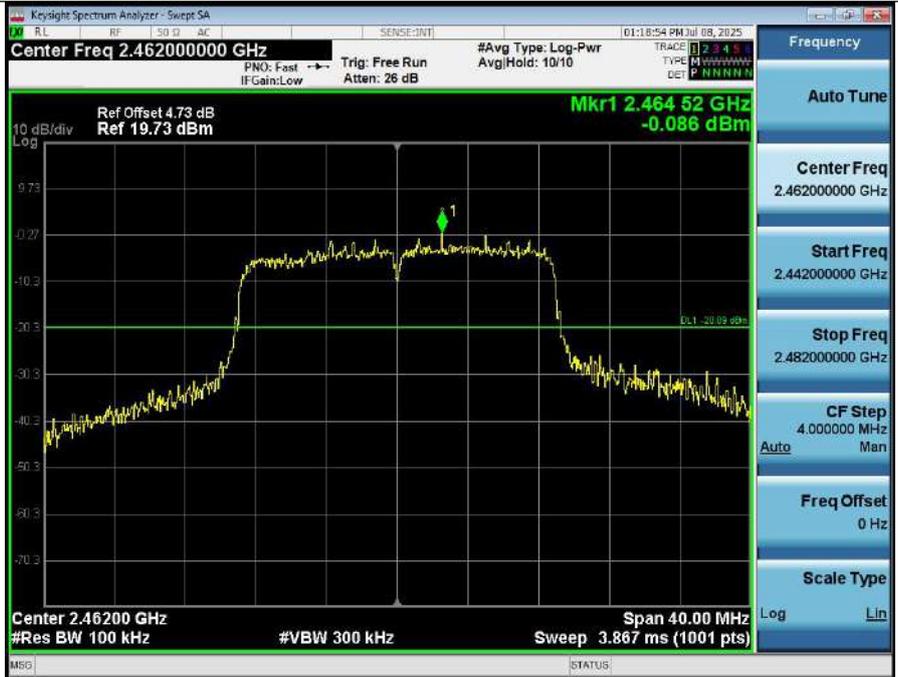
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1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



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_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24503.097	6.070	-42.985	-13.930	Pass
NVNT	ANT1	802.11b	2437.00	911.441	5.897	-32.903	-14.103	Pass
NVNT	ANT1	802.11b	2462.00	903.950	6.915	-29.134	-13.085	Pass
NVNT	ANT1	802.11g	2412.00	24515.582	-1.702	-51.652	-21.702	Pass
NVNT	ANT1	802.11g	2437.00	911.441	-1.264	-31.636	-21.264	Pass
NVNT	ANT1	802.11g	2462.00	24947.563	-0.330	-44.938	-20.330	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24997.503	-1.228	-49.980	-21.228	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24962.545	-0.745	-45.692	-20.745	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24947.563	-0.086	-45.120	-20.086	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24927.587	-3.592	-52.912	-23.592	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24912.605	-3.552	-53.013	-23.552	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	908.944	-3.002	-39.697	-23.002	Pass

1 Reference Level NVNT ANT1 802 11b 2412



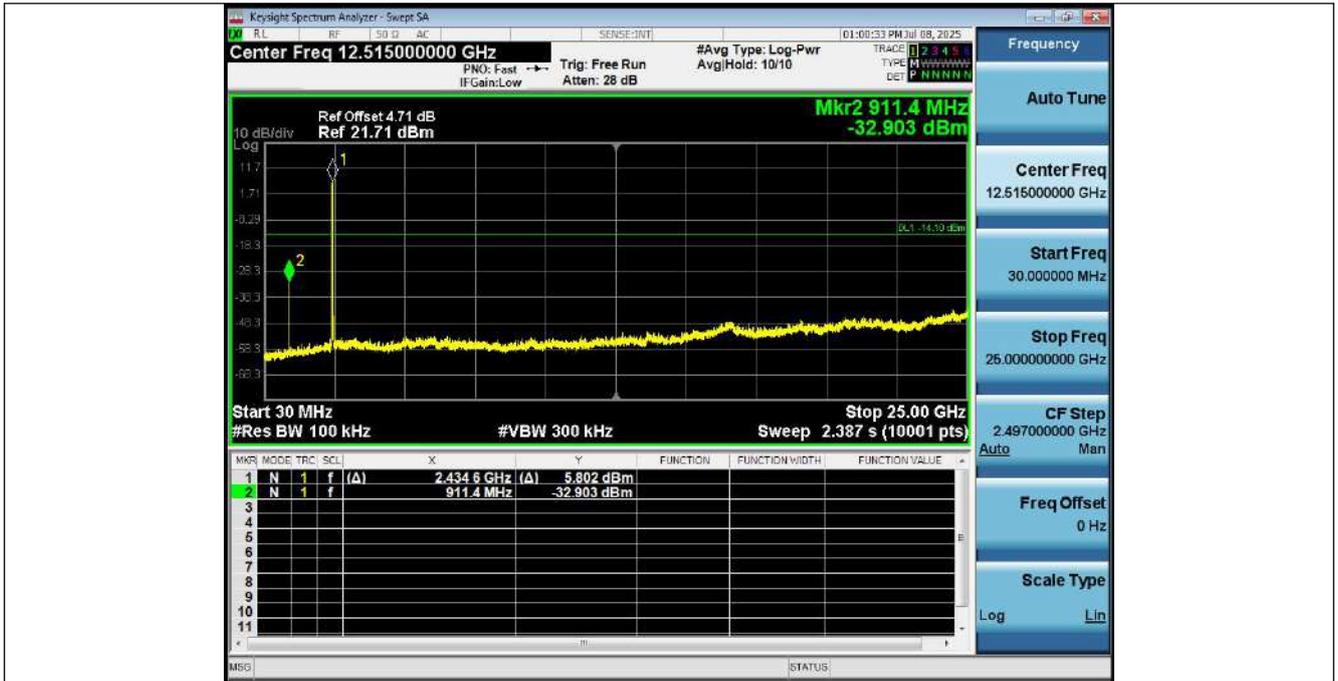
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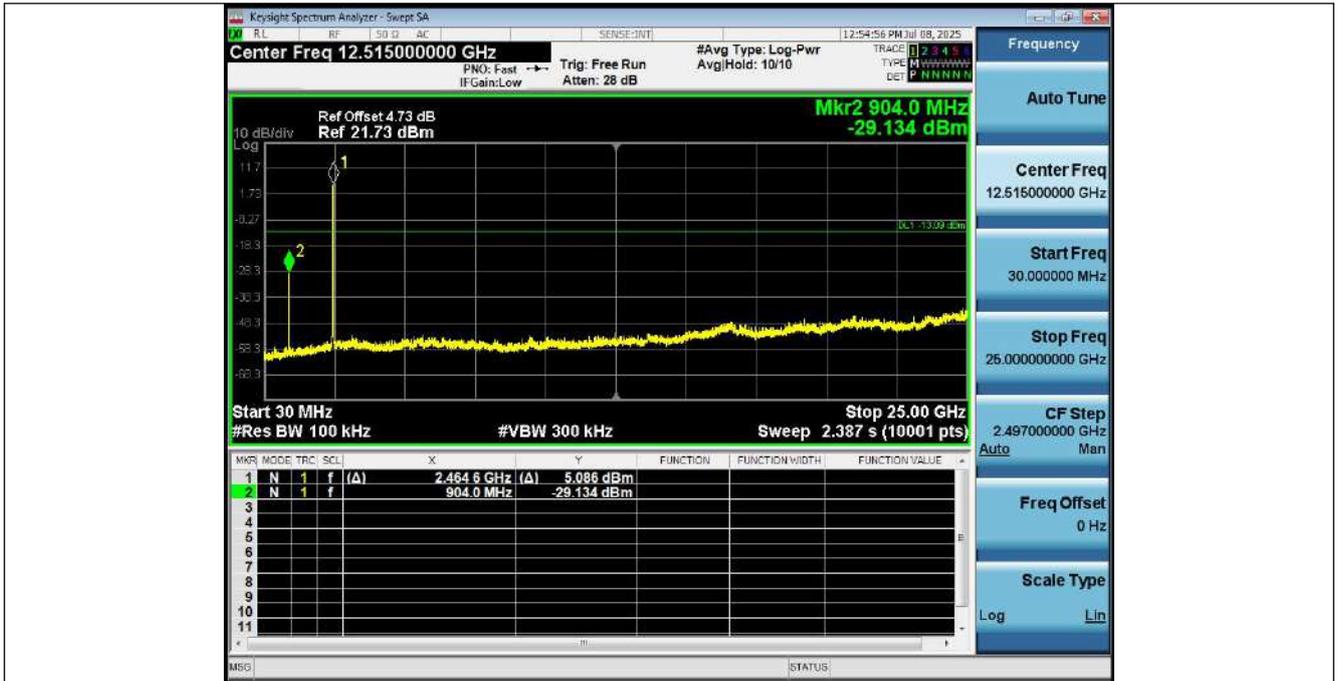
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2 Spurious Emission_NVNT ANT1 802 11b 2462



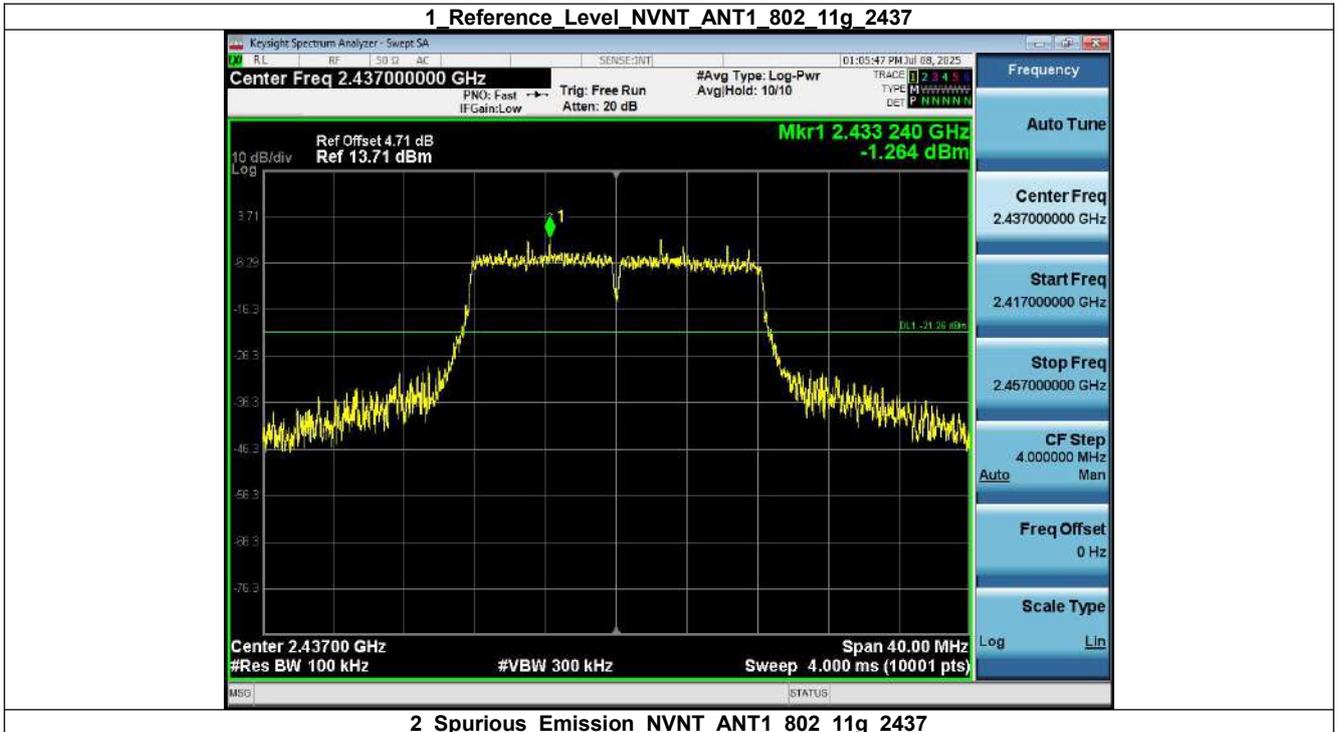
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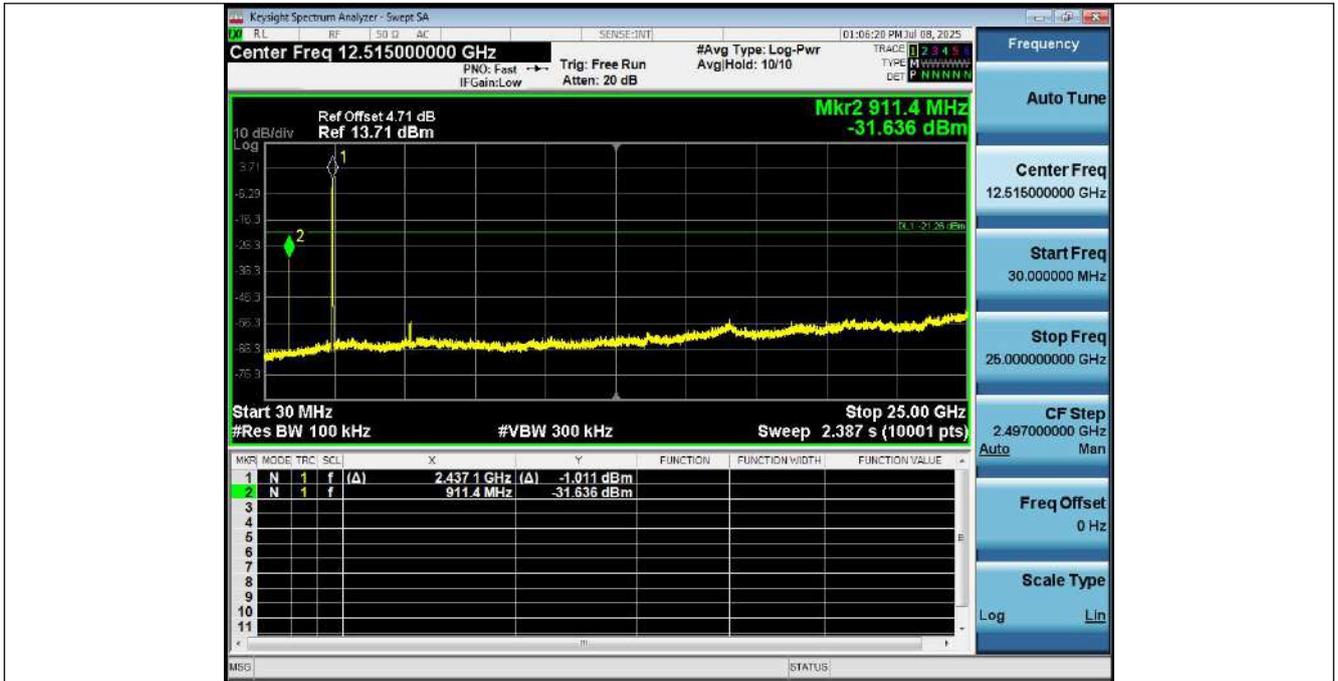
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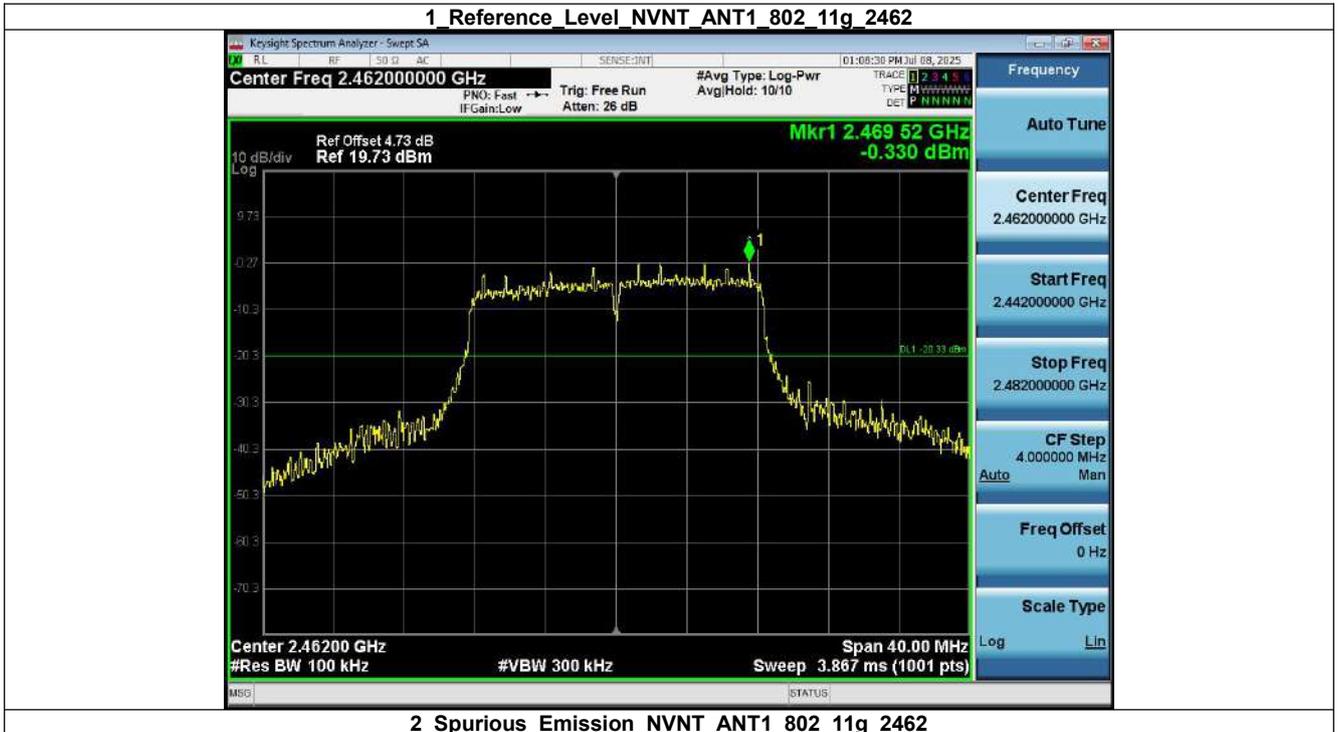
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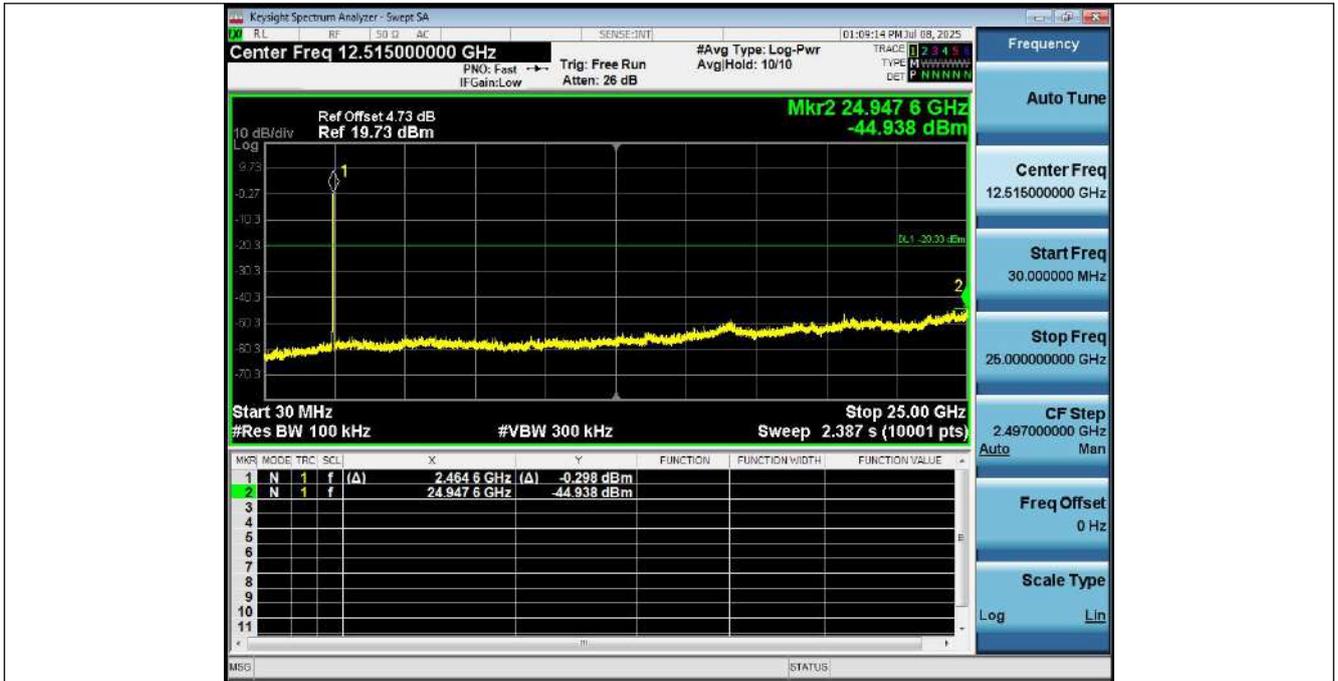
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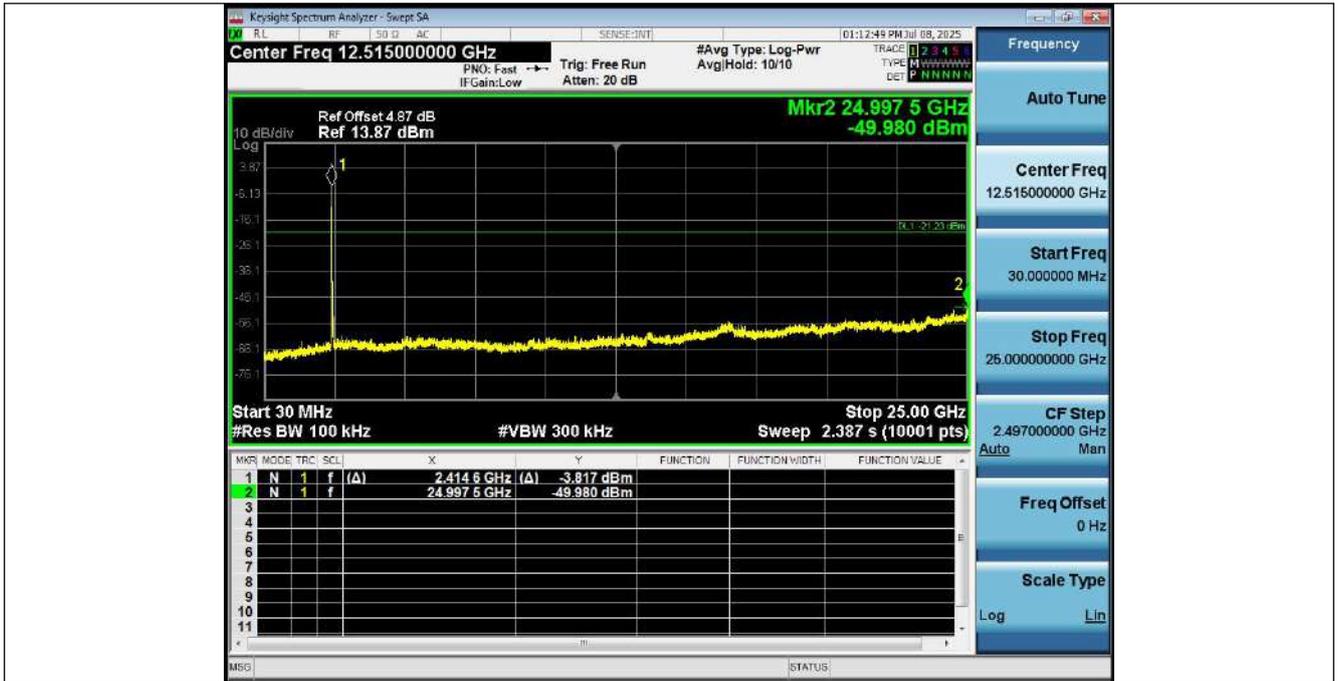
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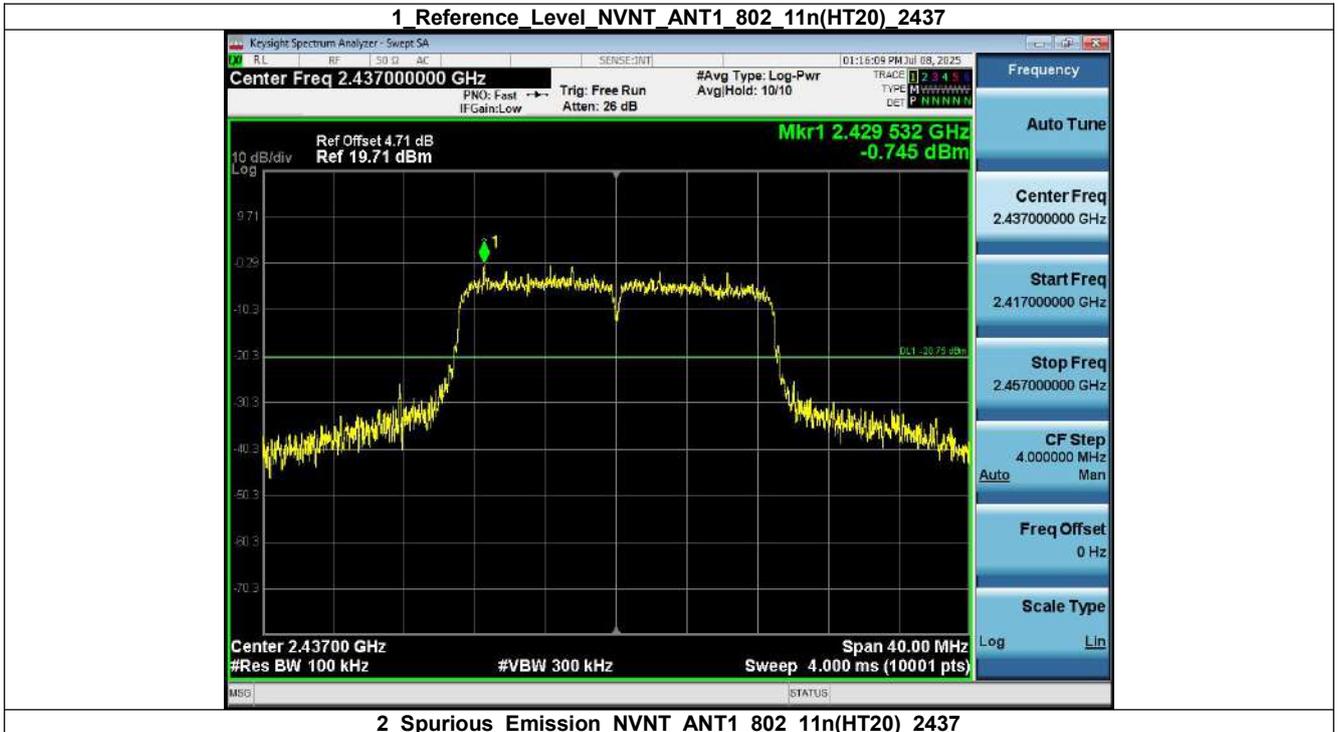
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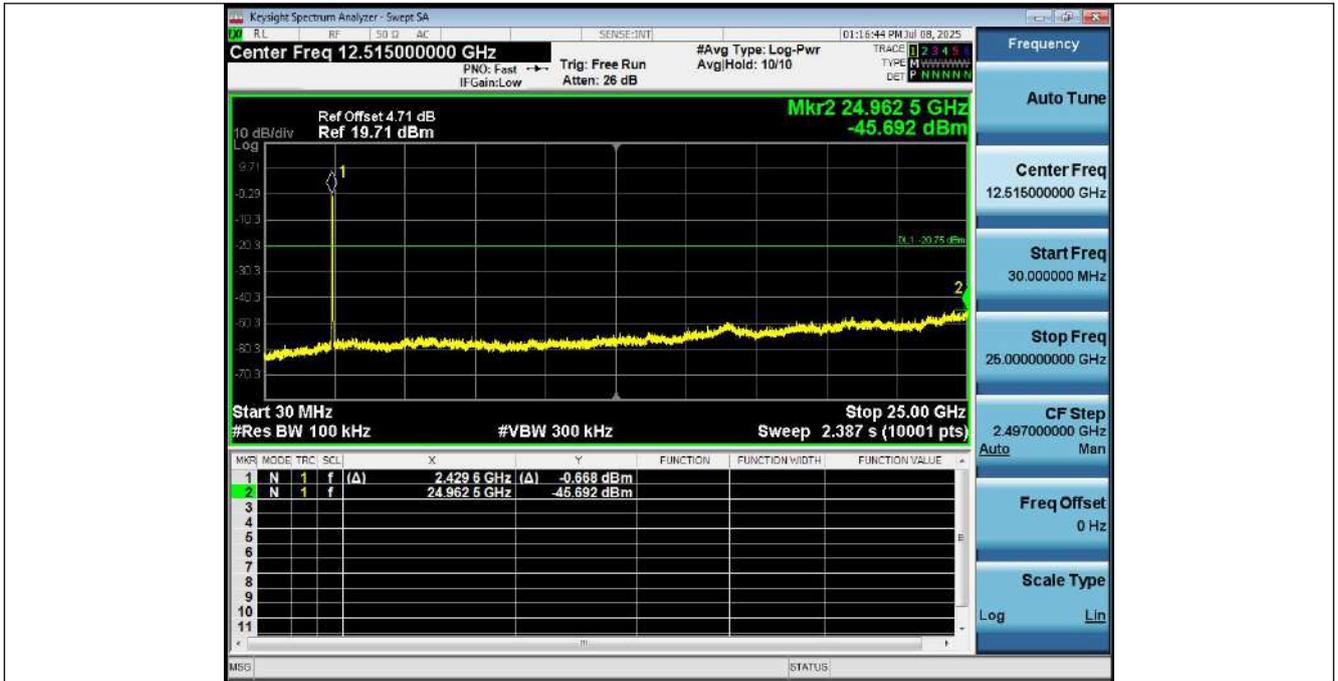
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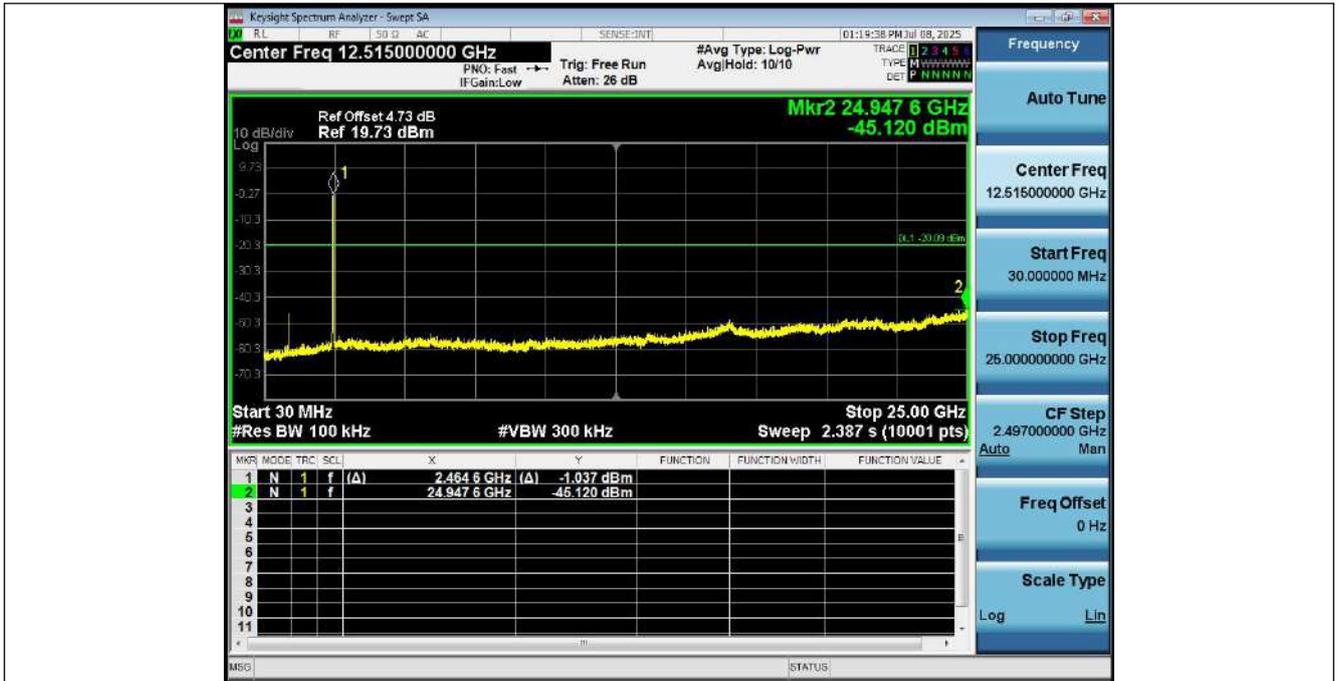
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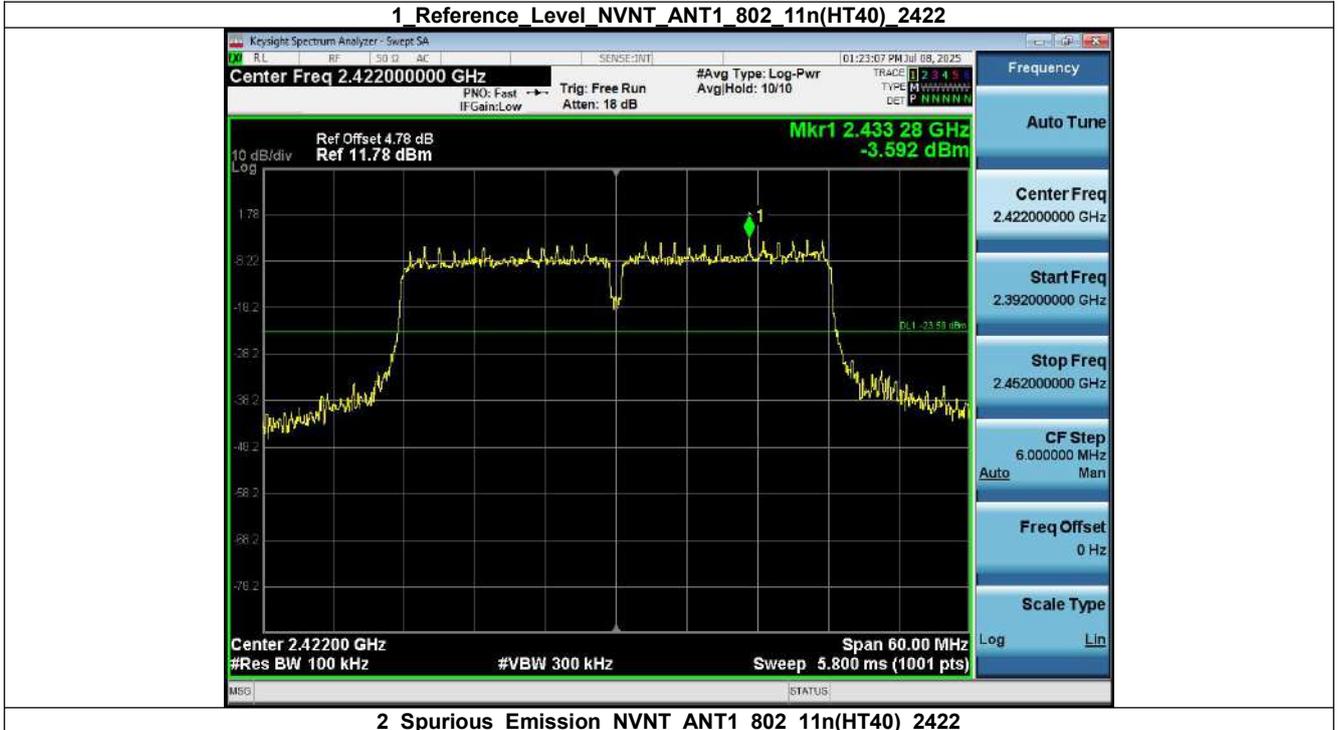
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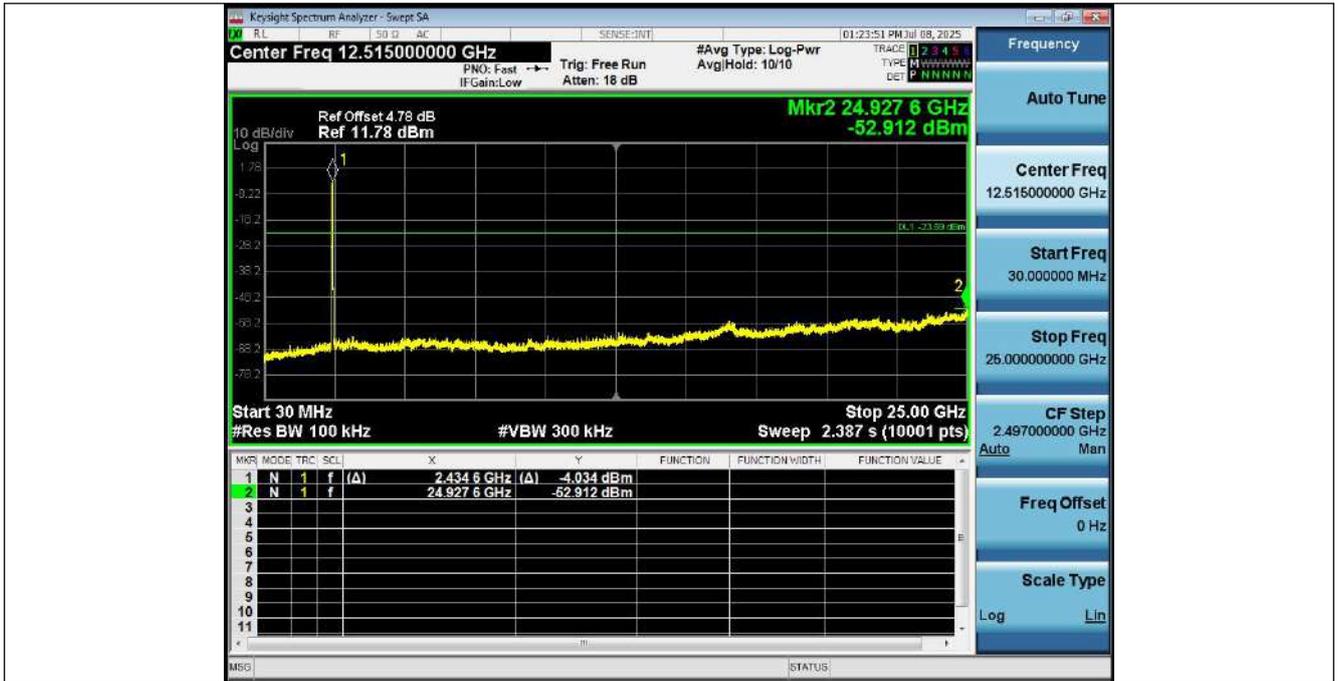
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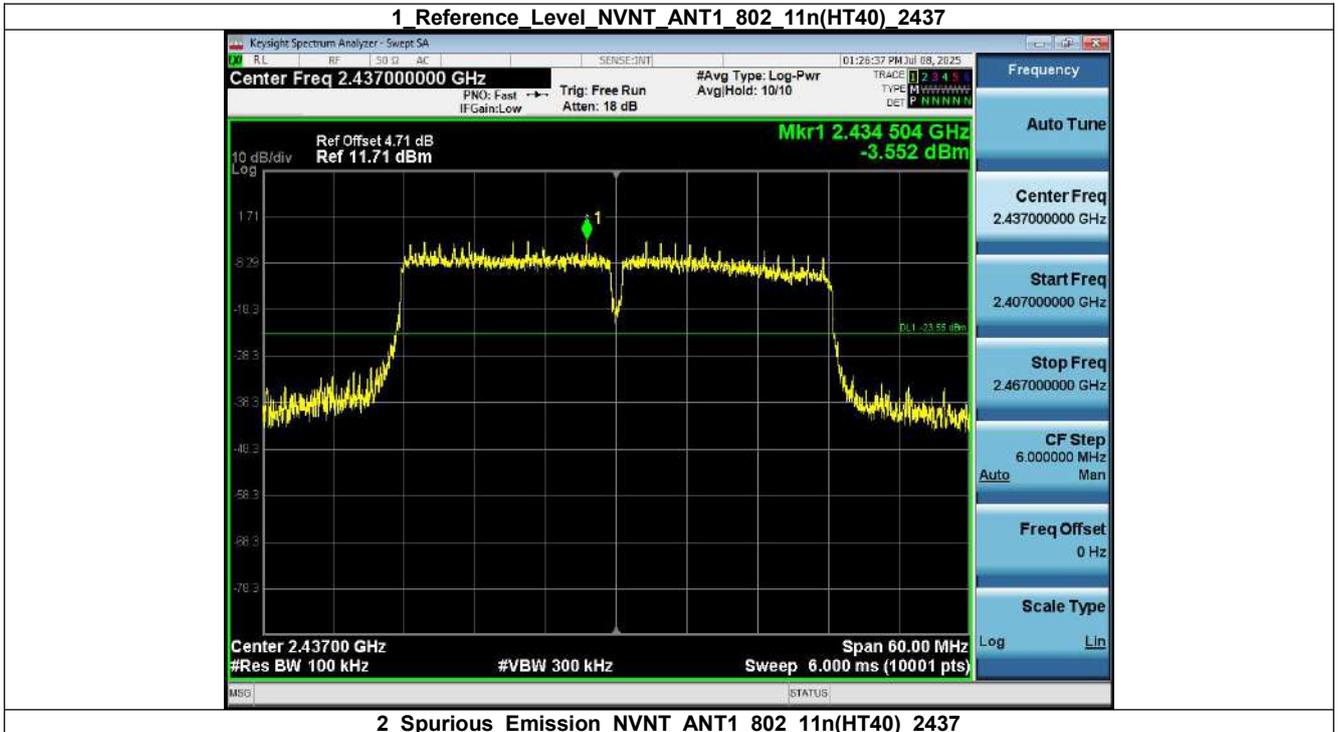
1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



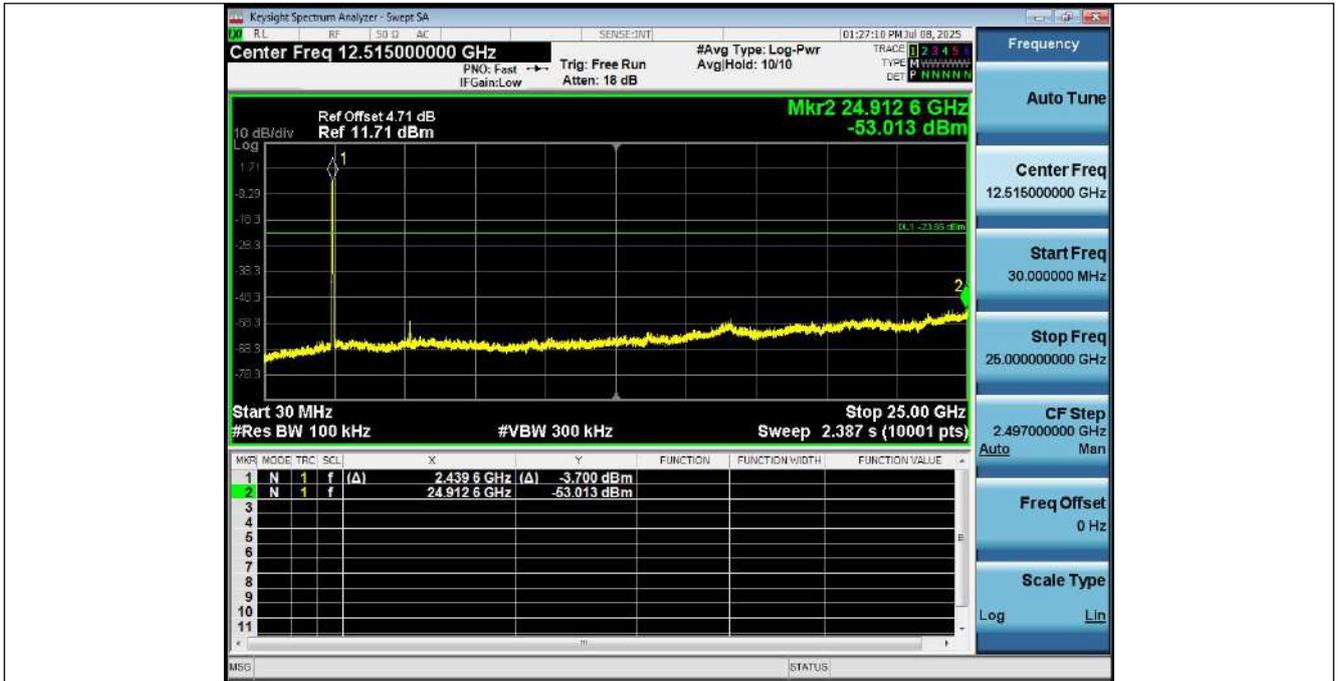
2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2422



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

