

Report No.:MAX250513110P02-R02

FCC ID:2BDTM-P01

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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	9.15	500	Pass
NVNT	ANT1	802.11b	2437.00	9.19	500	Pass
NVNT	ANT1	802.11b	2462.00	9.22	500	Pass
NVNT	ANT1	802.11g	2412.00	16.48	500	Pass
NVNT	ANT1	802.11g	2437.00	16.54	500	Pass
NVNT	ANT1	802.11g	2462.00	16.35	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.29	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.44	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.22	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.09	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.89	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.07	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



-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	11.951
NVNT	ANT1	802.11b	2437.00	12.305
NVNT	ANT1	802.11b	2462.00	12.414
NVNT	ANT1	802.11g	2412.00	17.147
NVNT	ANT1	802.11g	2437.00	17.177
NVNT	ANT1	802.11g	2462.00	17.289
NVNT	ANT1	802.11n(HT20)	2412.00	17.845
NVNT	ANT1	802.11n(HT20)	2437.00	17.897
NVNT	ANT1	802.11n(HT20)	2462.00	17.855
NVNT	ANT1	802.11n(HT40)	2422.00	36.511
NVNT	ANT1	802.11n(HT40)	2437.00	36.407
NVNT	ANT1	802.11n(HT40)	2452.00	36.630



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

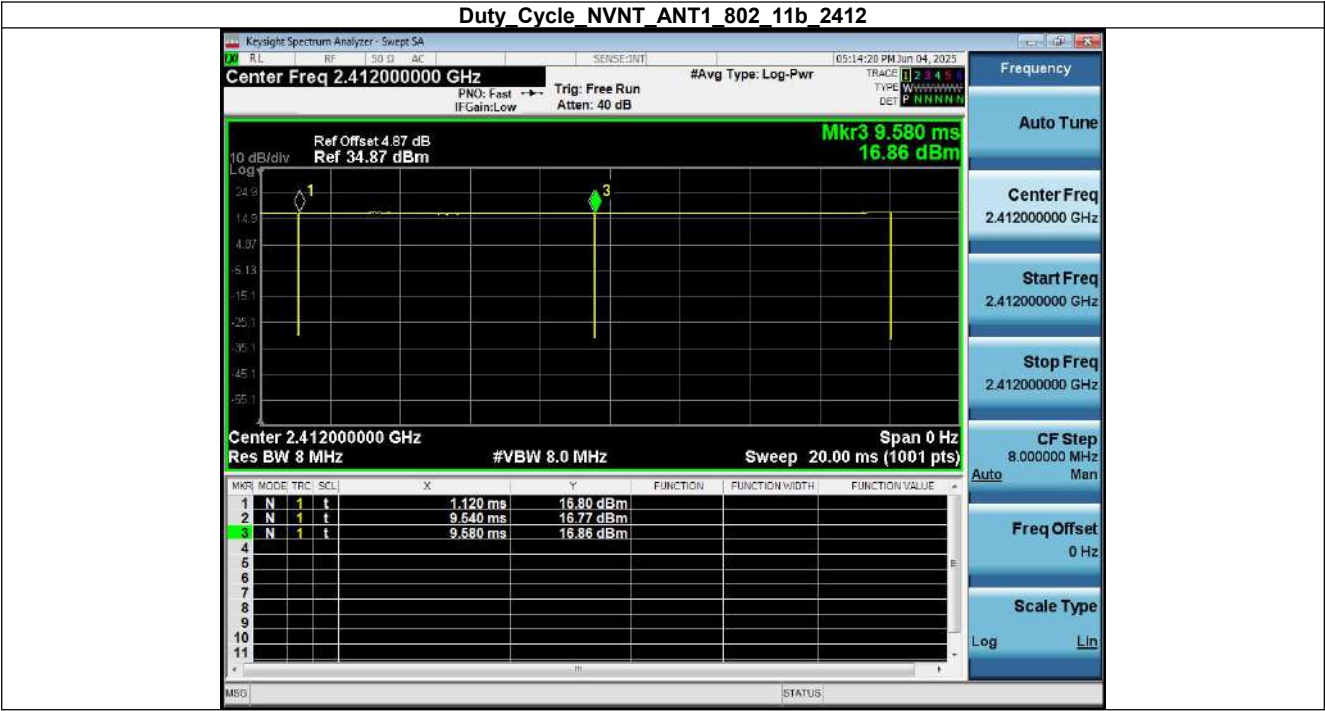


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452

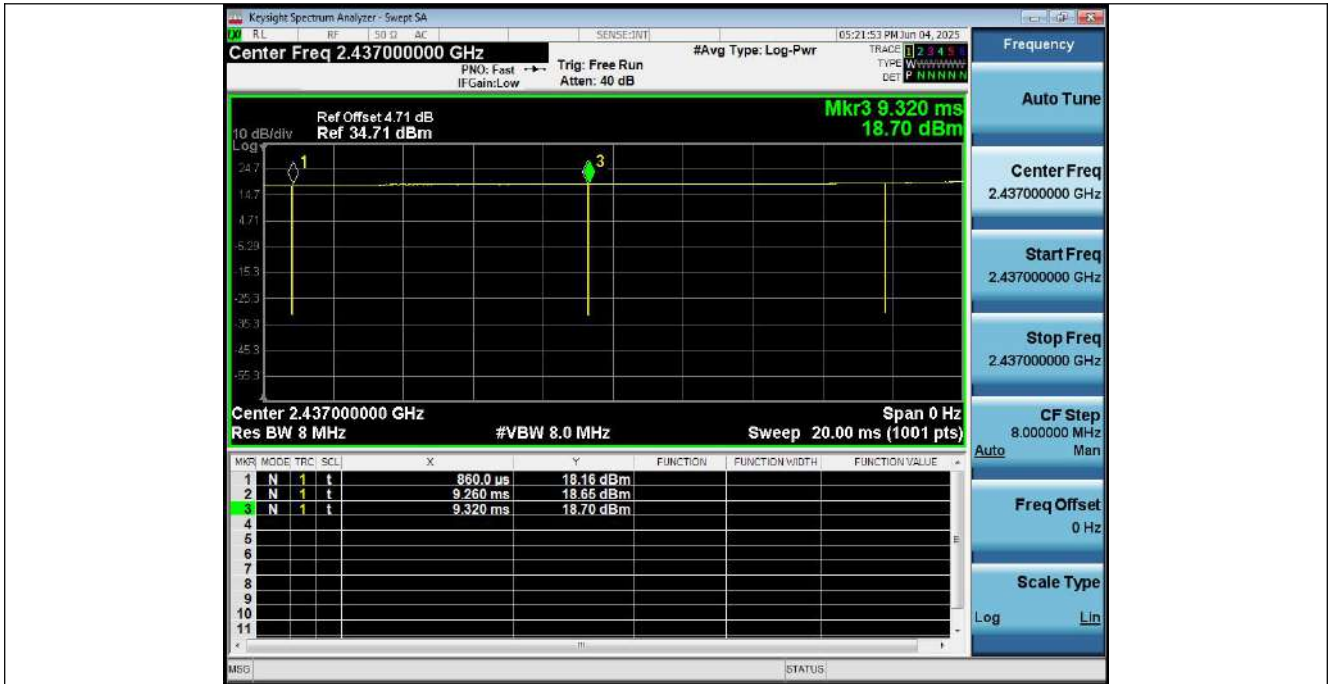


3. Duty Cycle

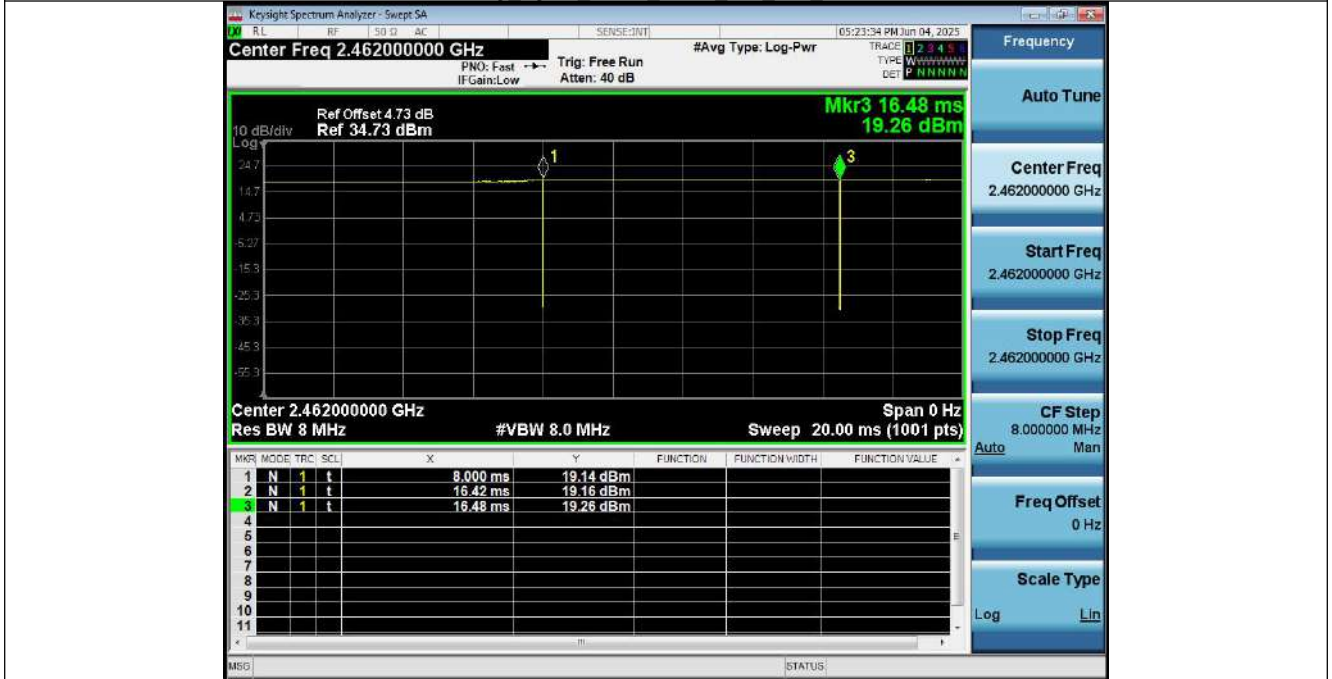
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2437.00	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



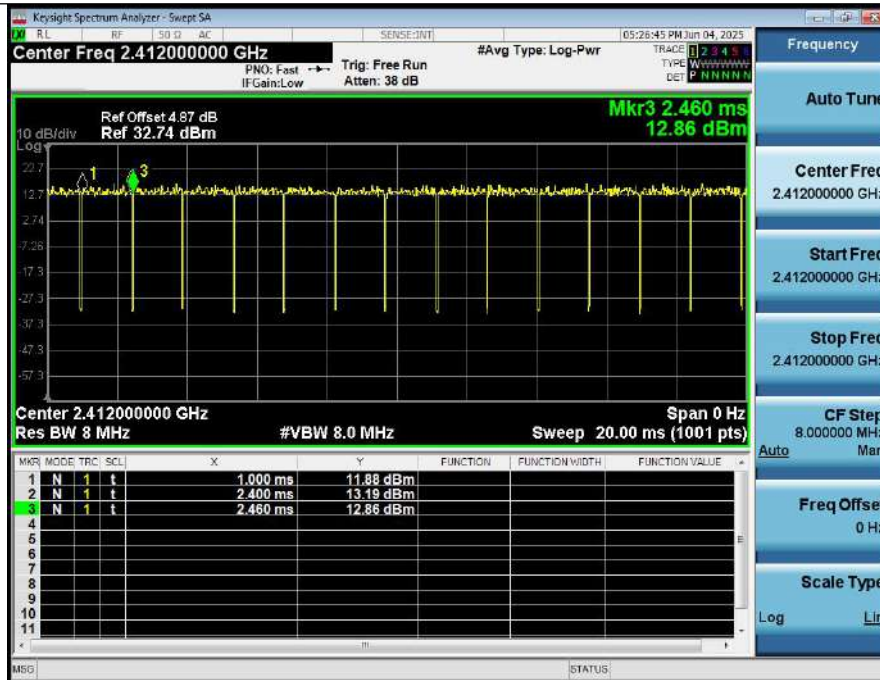
Duty Cycle NVNT ANT1 802 11b 2437



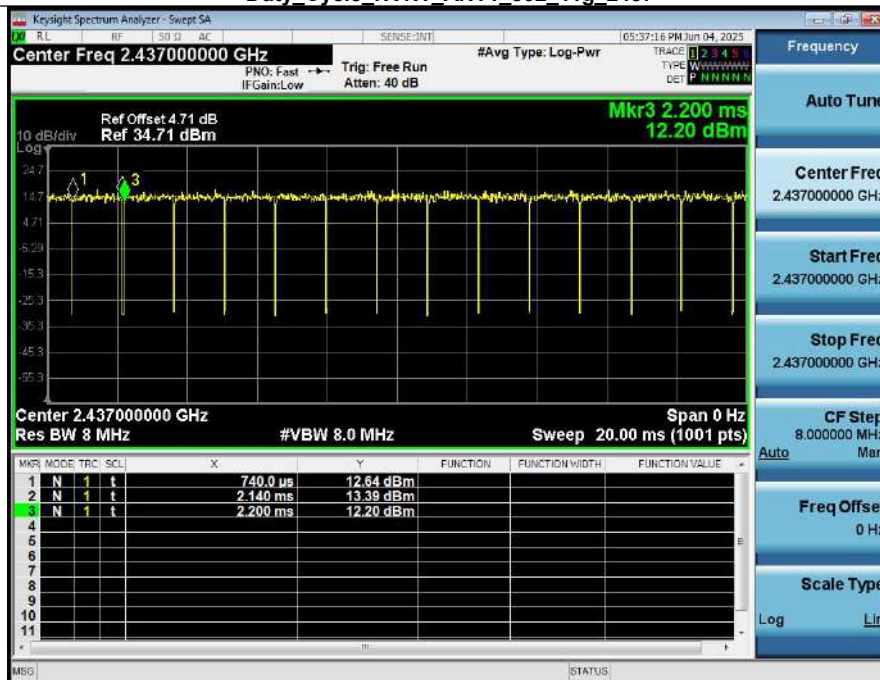
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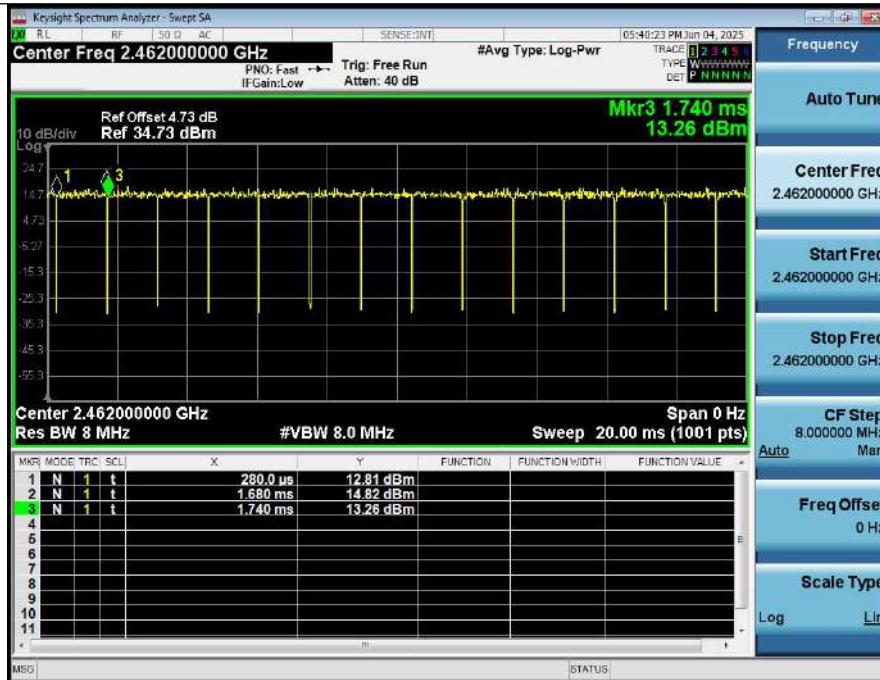
Duty_Cycle_NVNT_ANT1_802_11g_2412



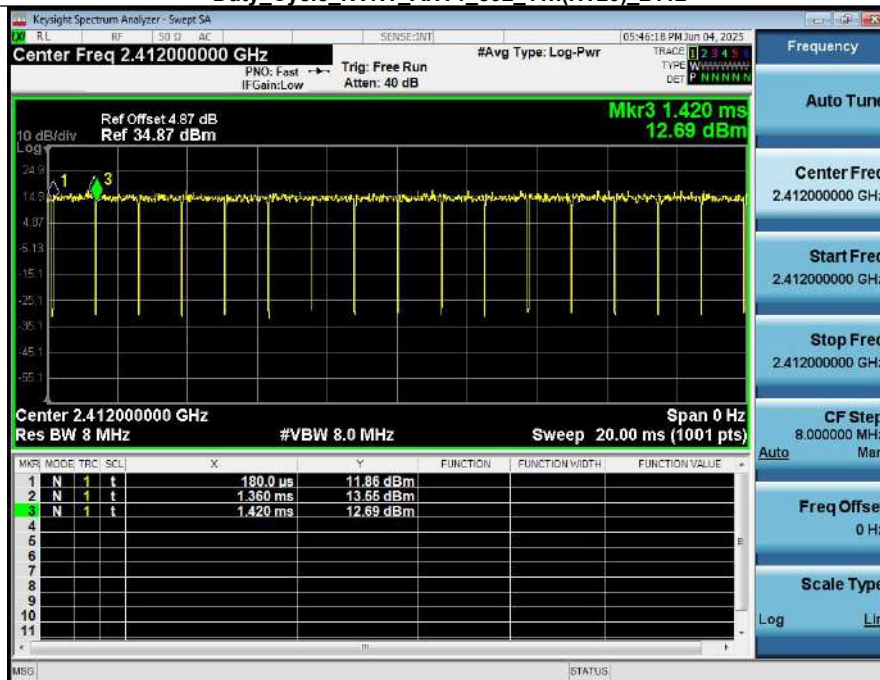
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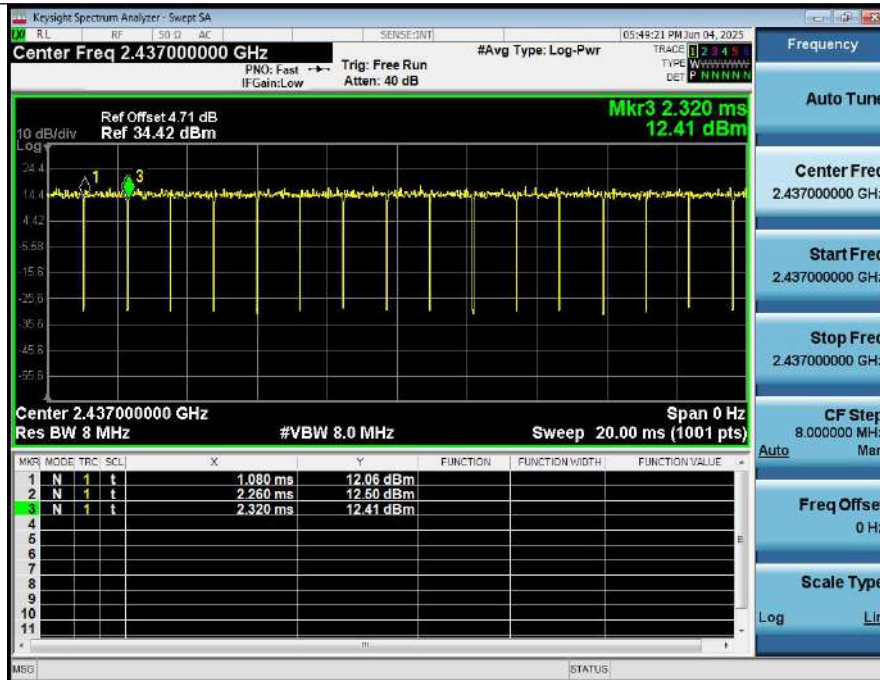
Duty_Cycle_NVNT_ANT1_802_11g_2462



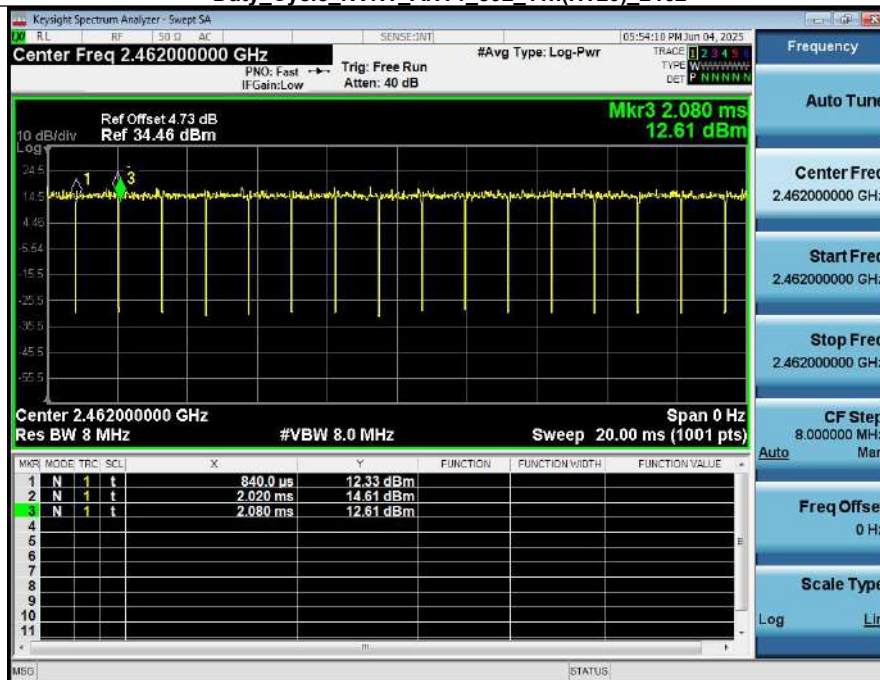
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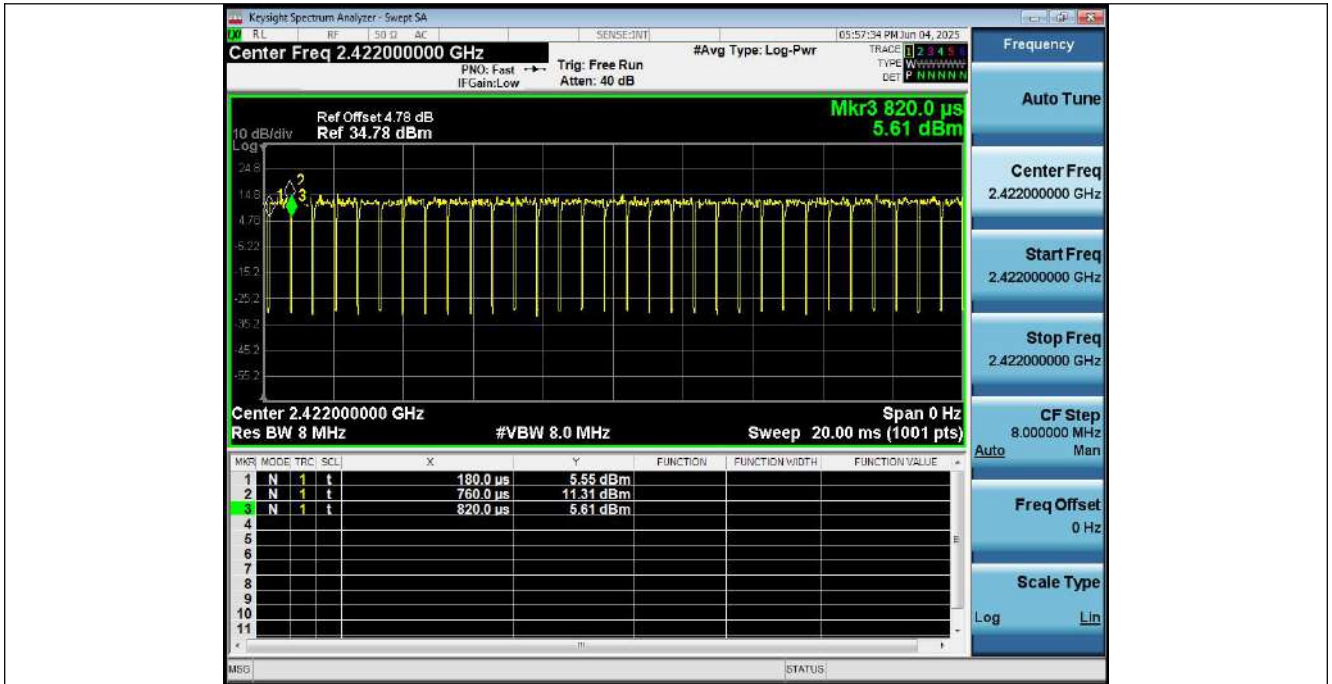
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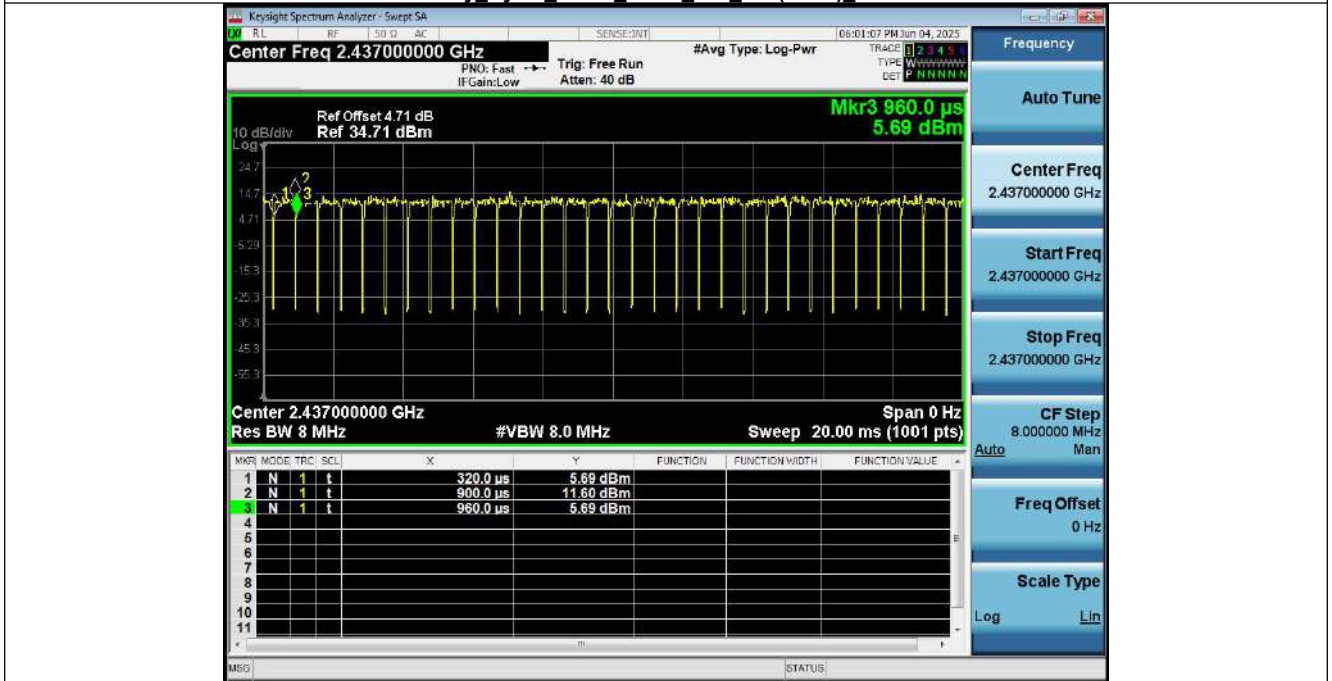
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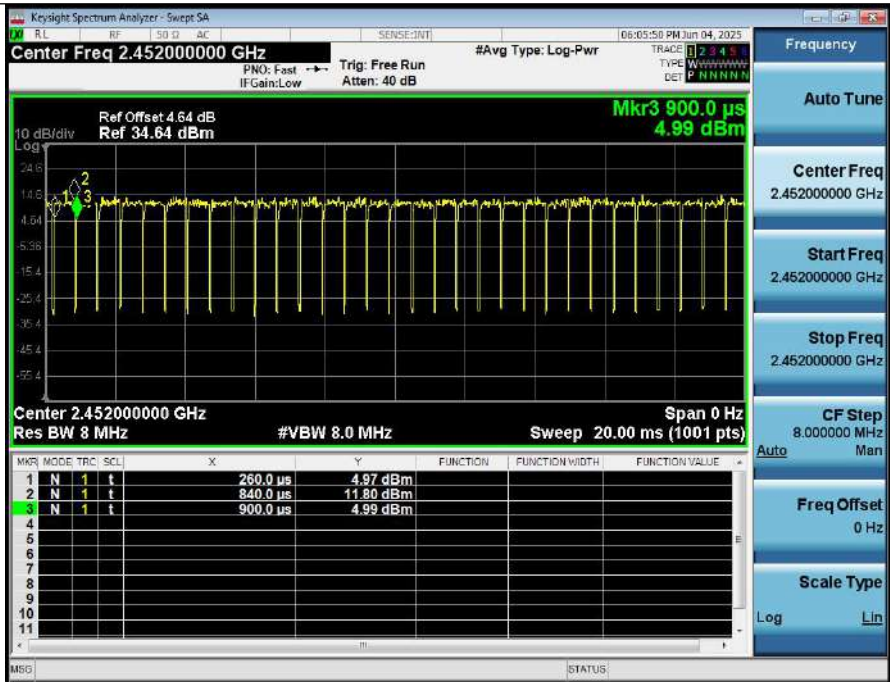
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



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	18.91	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	18.48	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	18.22	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	18.17	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	17.82	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	17.34	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	17.68	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	17.25	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	17.07	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	16.56	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	16.39	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	16.28	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	1.97	-10.00	-8.03	8	Pass
NVNT	ANT1	802.11b	2437.00	3.08	-10.00	-6.92	8	Pass
NVNT	ANT1	802.11b	2462.00	3.93	-10.00	-6.07	8	Pass
NVNT	ANT1	802.11g	2412.00	-5.04	-10.00	-15.04	8	Pass
NVNT	ANT1	802.11g	2437.00	-5.14	-10.00	-15.14	8	Pass
NVNT	ANT1	802.11g	2462.00	-4.41	-10.00	-14.41	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-5.32	-10.00	-15.32	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-5.62	-10.00	-15.62	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-4.13	-10.00	-14.13	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-8.01	-10.00	-18.01	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-7.91	-10.00	-17.91	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-8.46	-10.00	-18.46	8	Pass



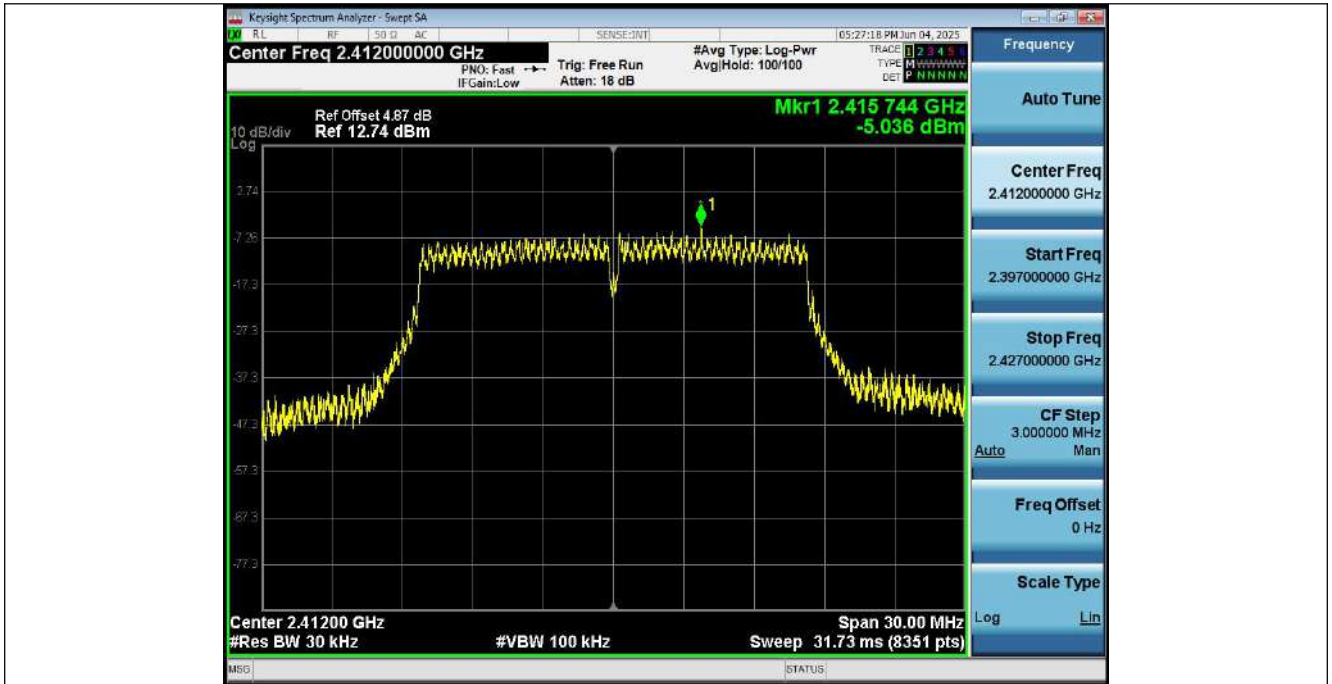
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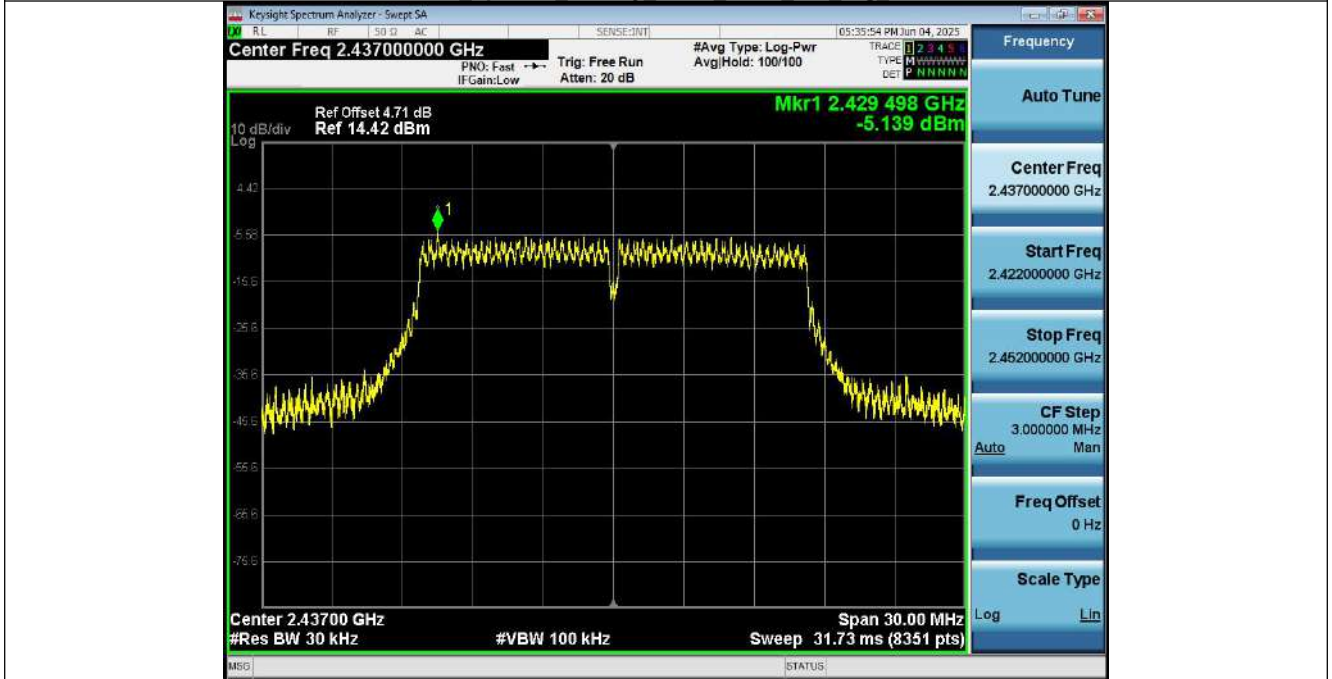
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



Power_Spectral_Density_NVNT_ANT1_802_11g_2412



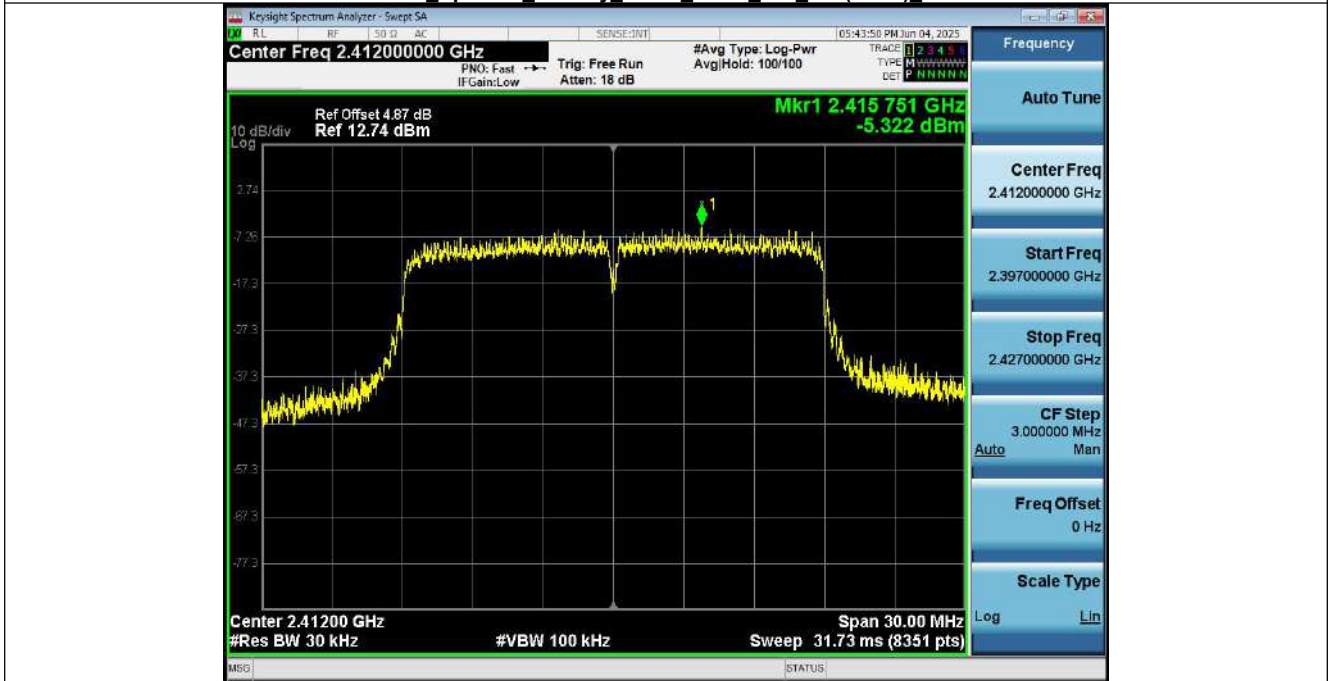
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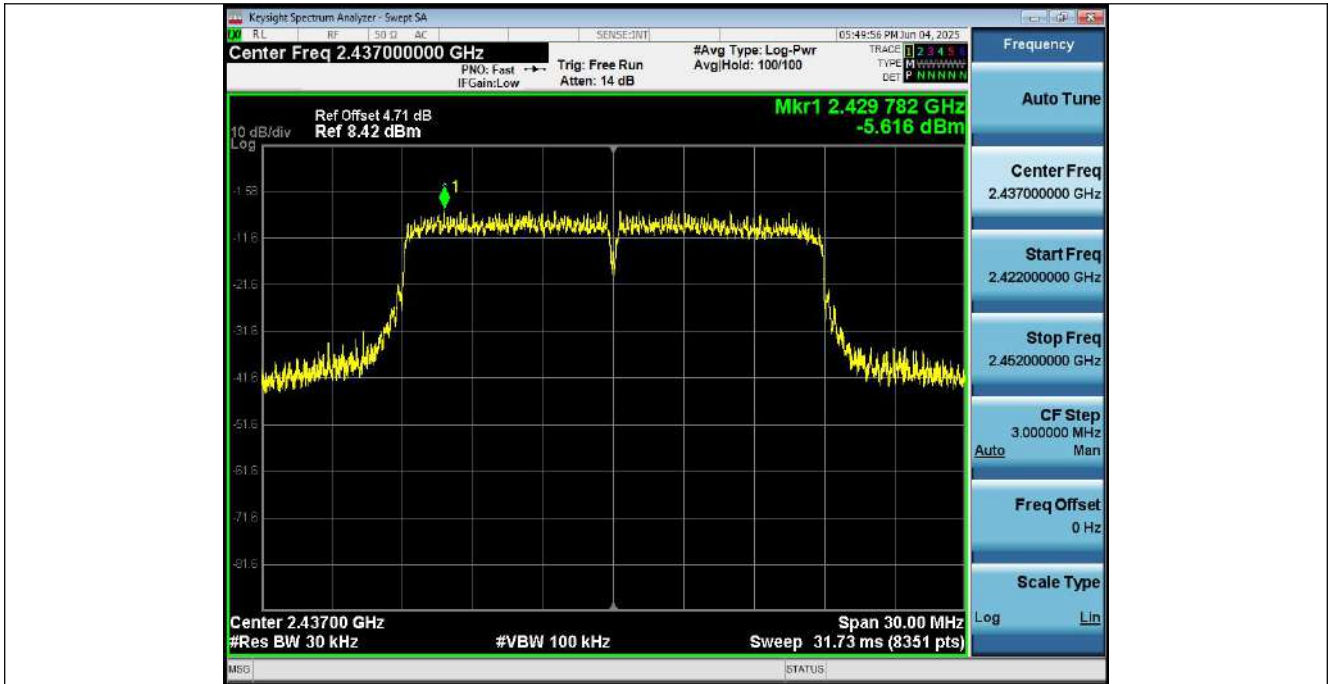
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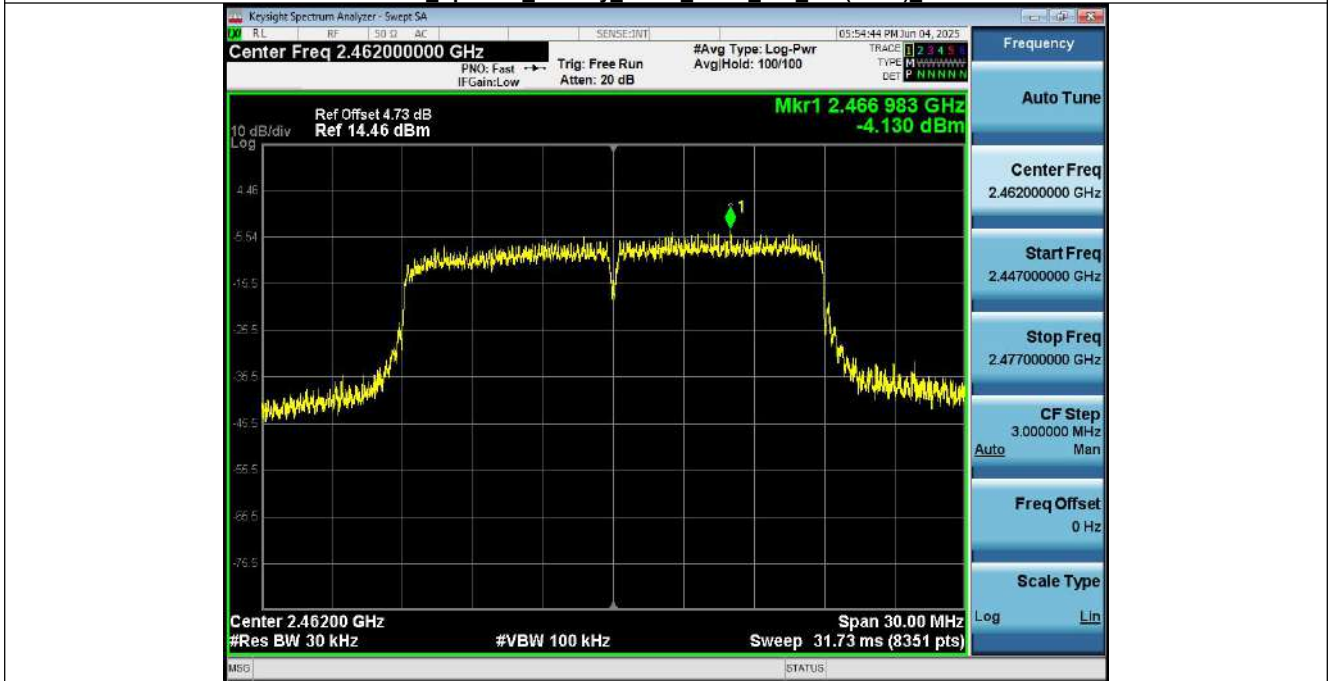
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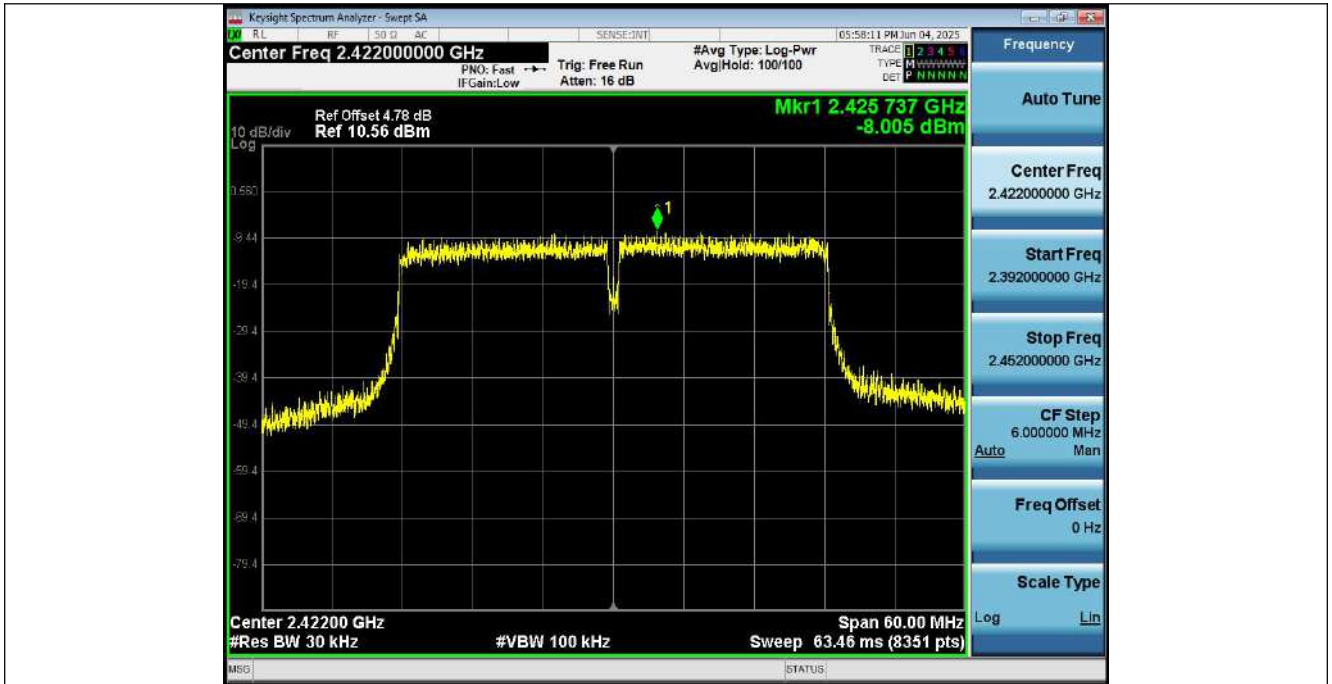
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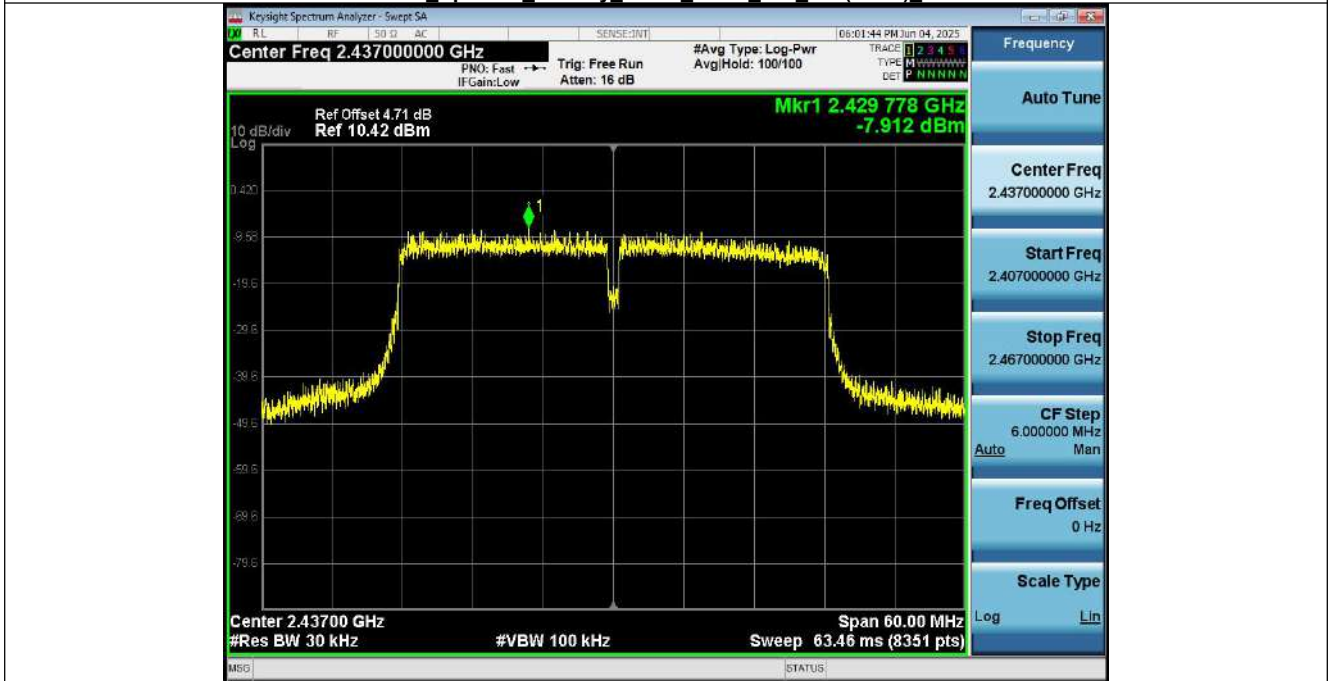
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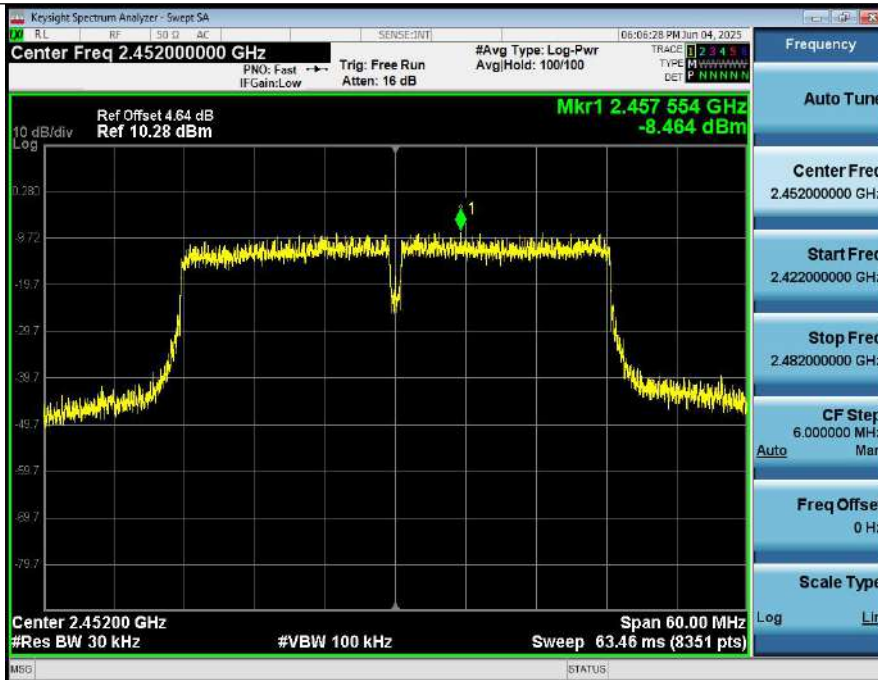
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



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_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	4.814	-38.117	-15.186	Pass
NVNT	ANT1	802.11b	2462.00	2484.352	6.552	-50.856	-13.448	Pass
NVNT	ANT1	802.11g	2412.00	2399.152	-1.413	-33.058	-21.413	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	0.136	-40.041	-19.864	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.152	-0.839	-31.906	-20.839	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.824	0.529	-38.543	-19.471	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-3.021	-34.594	-23.021	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.428	-3.804	-38.363	-23.804	Pass



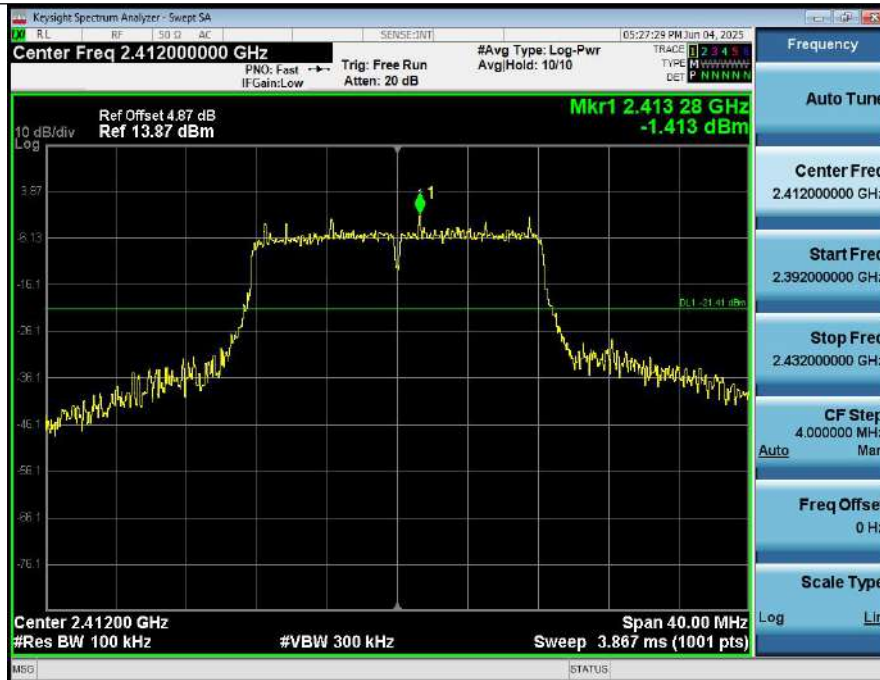
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2_Bandedge_NVNT_ANT1_802_11b_2462



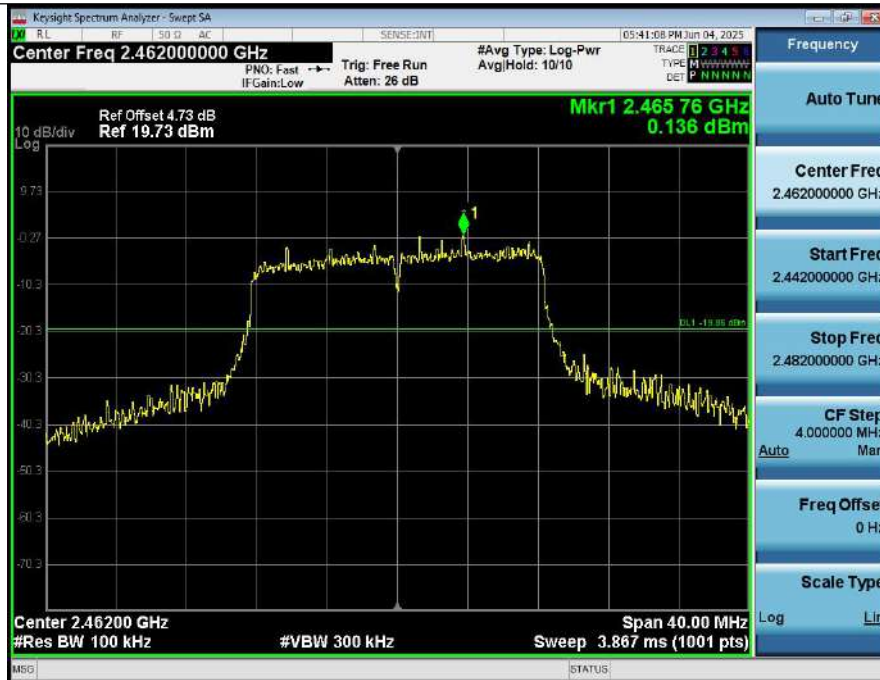
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2_Bandedge_NVNT_ANT1_802_11g_2412



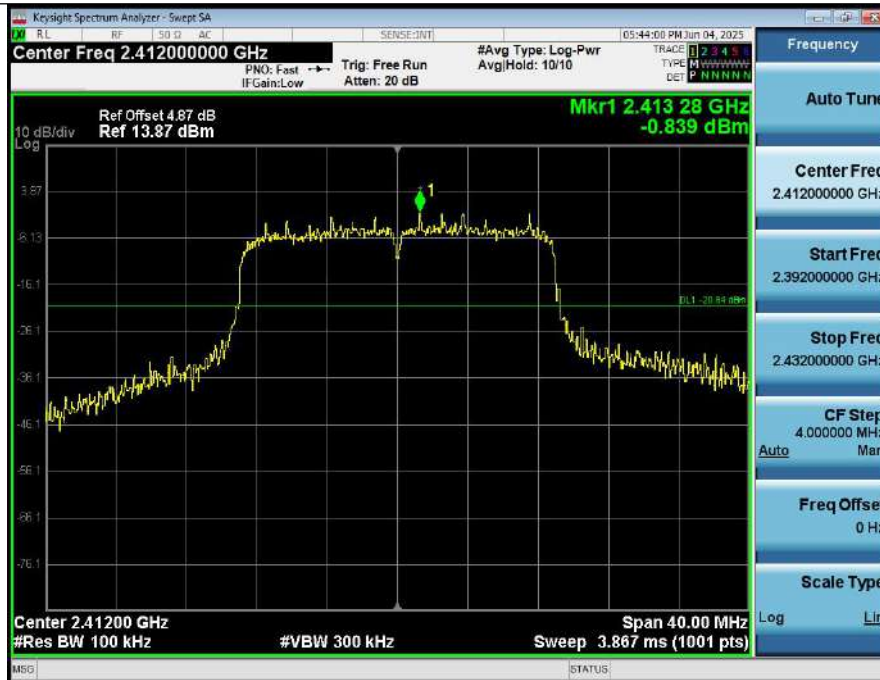
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2_Bandedge_NVNT_ANT1_802_11g_2462



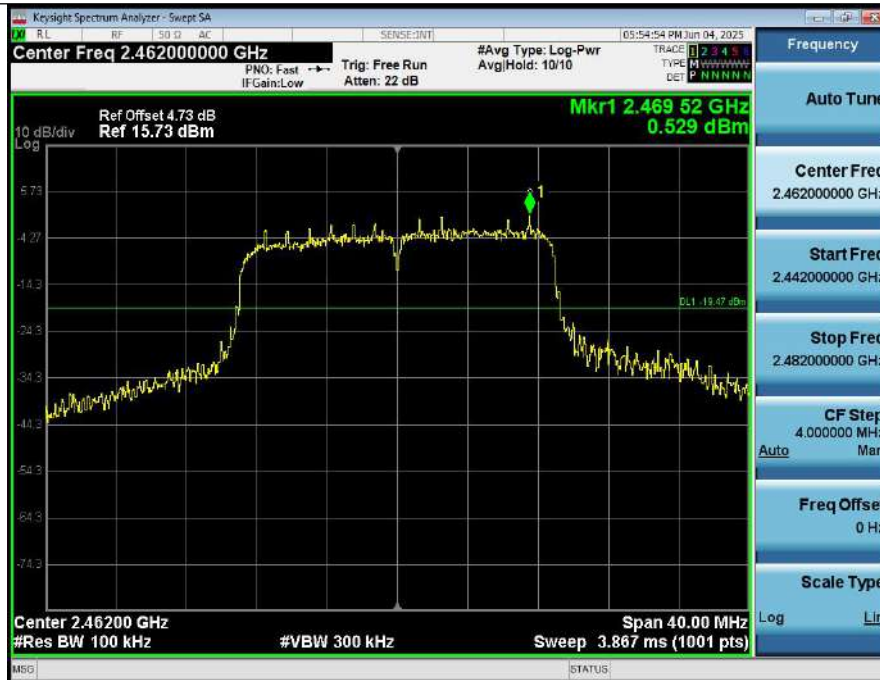
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



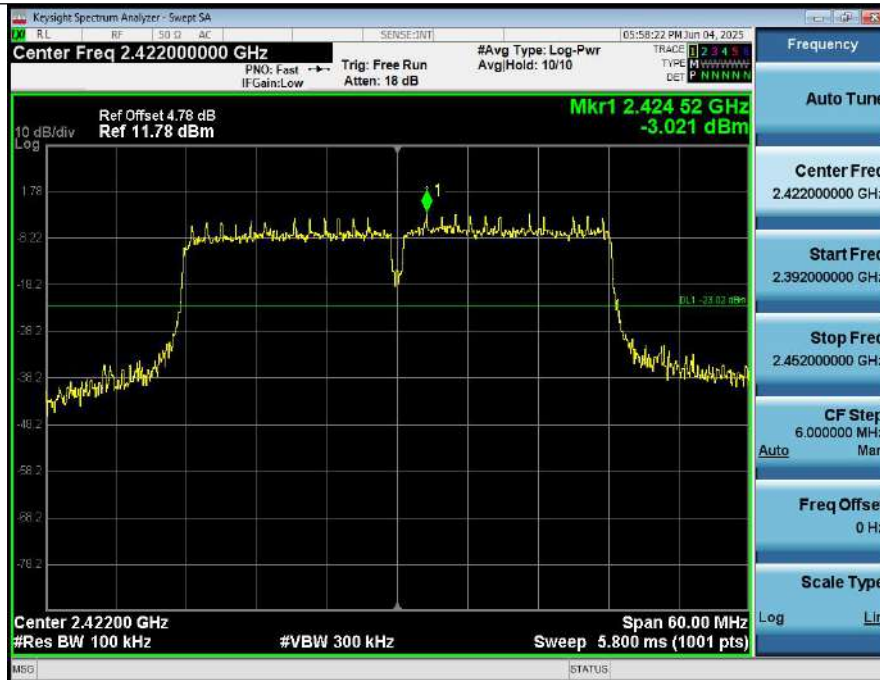
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



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



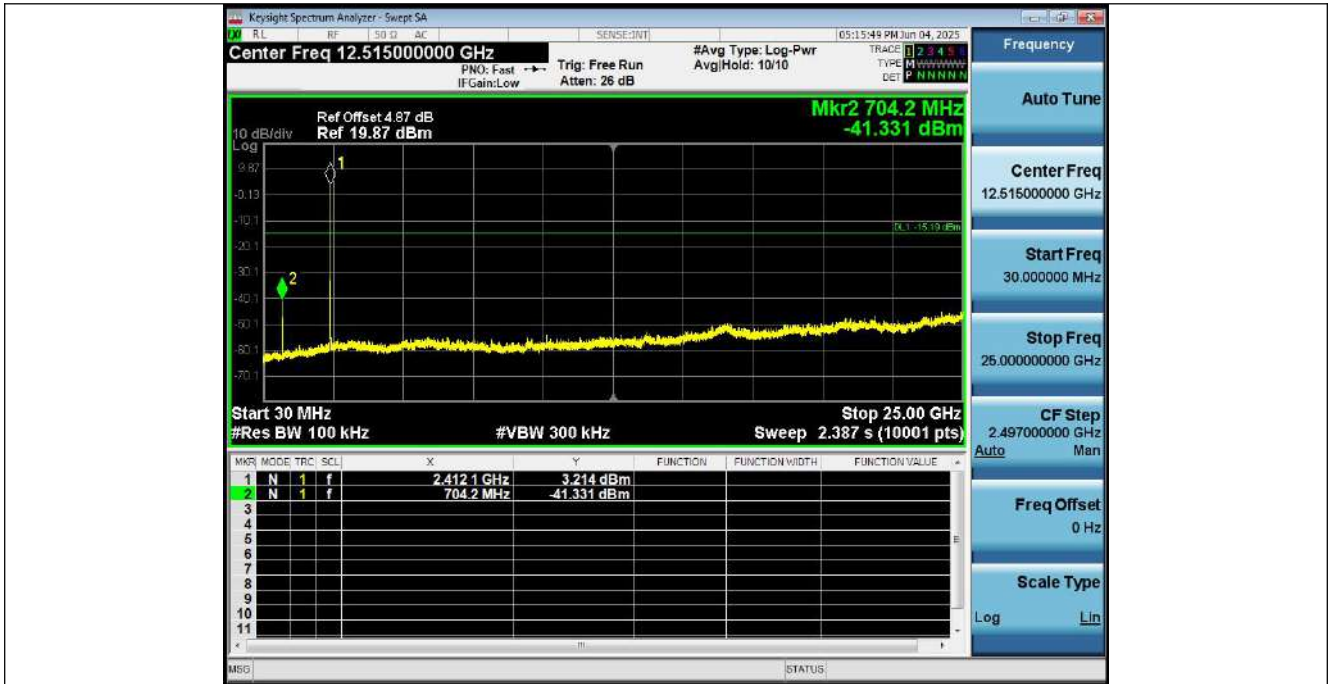
7. Spurious Emission

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	704.190	4.814	-41.331	-15.186	Pass
NVNT	ANT1	802.11b	2437.00	24970.036	5.603	-42.492	-14.397	Pass
NVNT	ANT1	802.11b	2462.00	24970.036	6.552	-42.256	-13.448	Pass
NVNT	ANT1	802.11g	2412.00	24965.042	-1.413	-51.291	-21.413	Pass
NVNT	ANT1	802.11g	2437.00	724.166	-1.284	-30.967	-21.284	Pass
NVNT	ANT1	802.11g	2462.00	724.166	0.136	-42.609	-19.864	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24915.102	-0.839	-50.784	-20.839	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	716.675	-0.747	-31.616	-20.747	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24955.054	0.529	-49.660	-19.471	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24997.503	-3.021	-53.442	-23.021	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24927.587	-3.448	-52.781	-23.448	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	903.950	-3.804	-45.538	-23.804	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



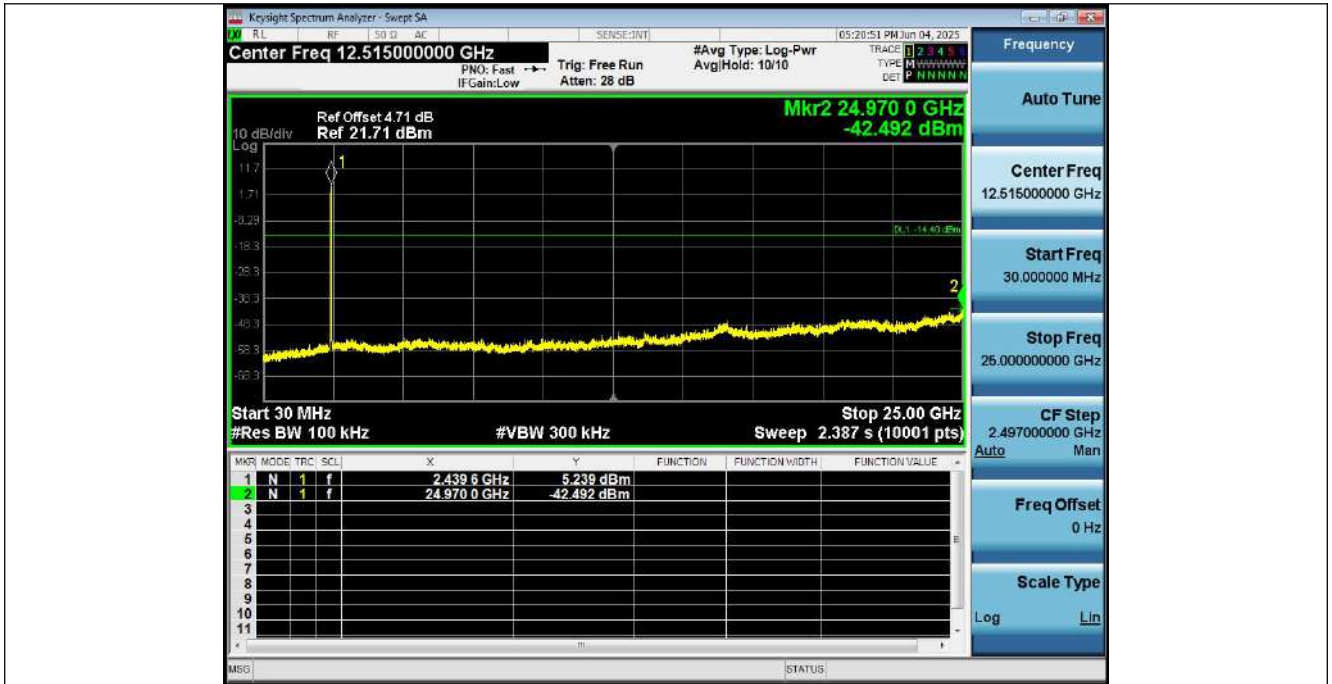
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1 Reference Level NVNT ANT1 802 11b 2437



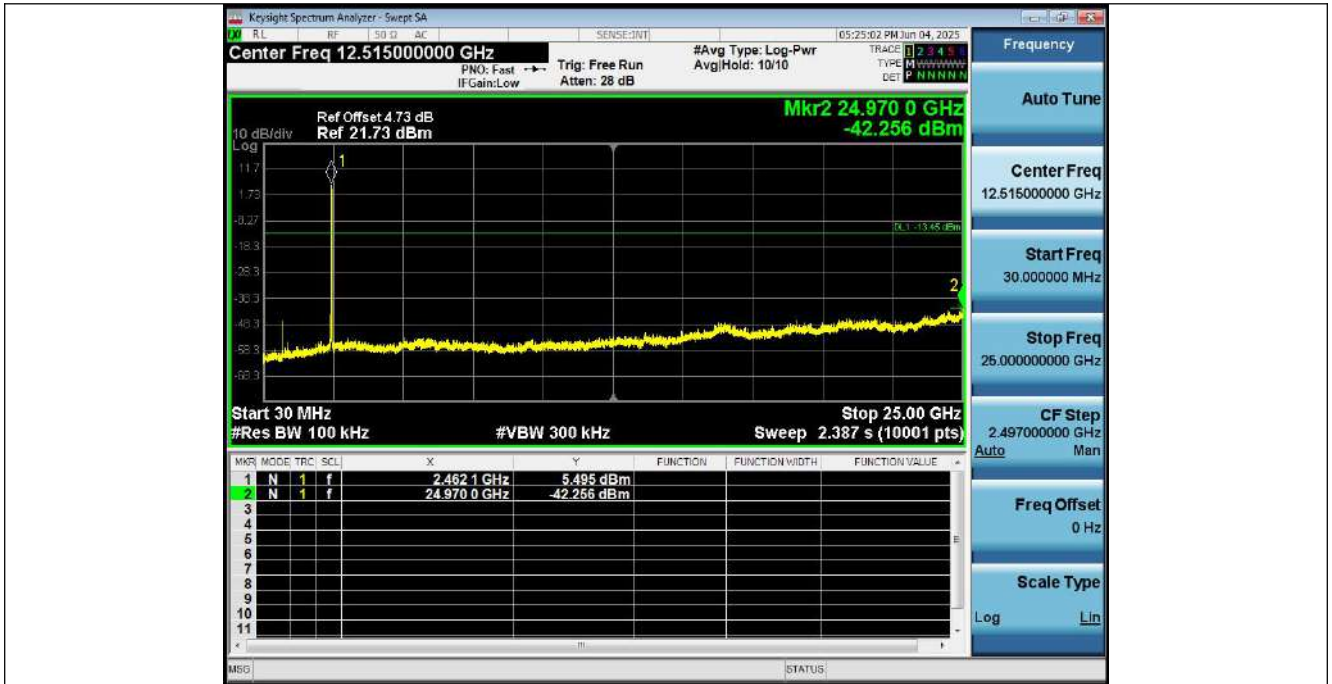
2 Spurious Emission NVNT ANT1 802 11b 2437



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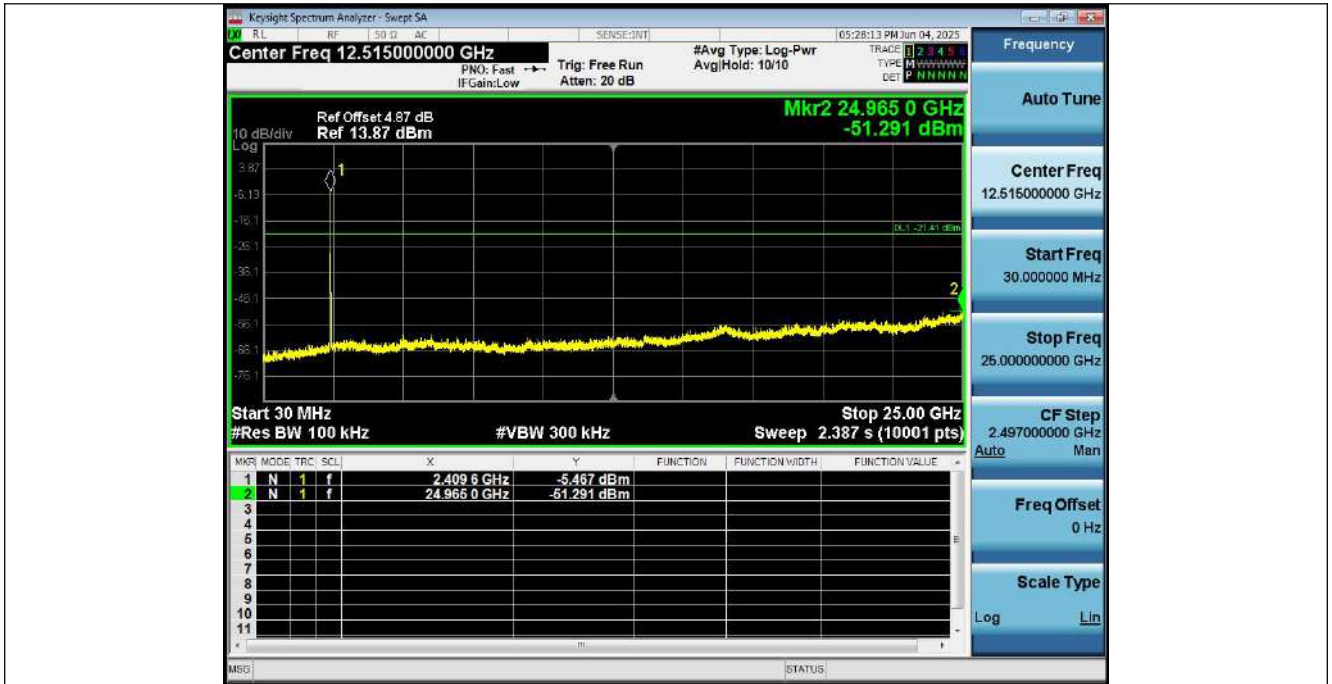
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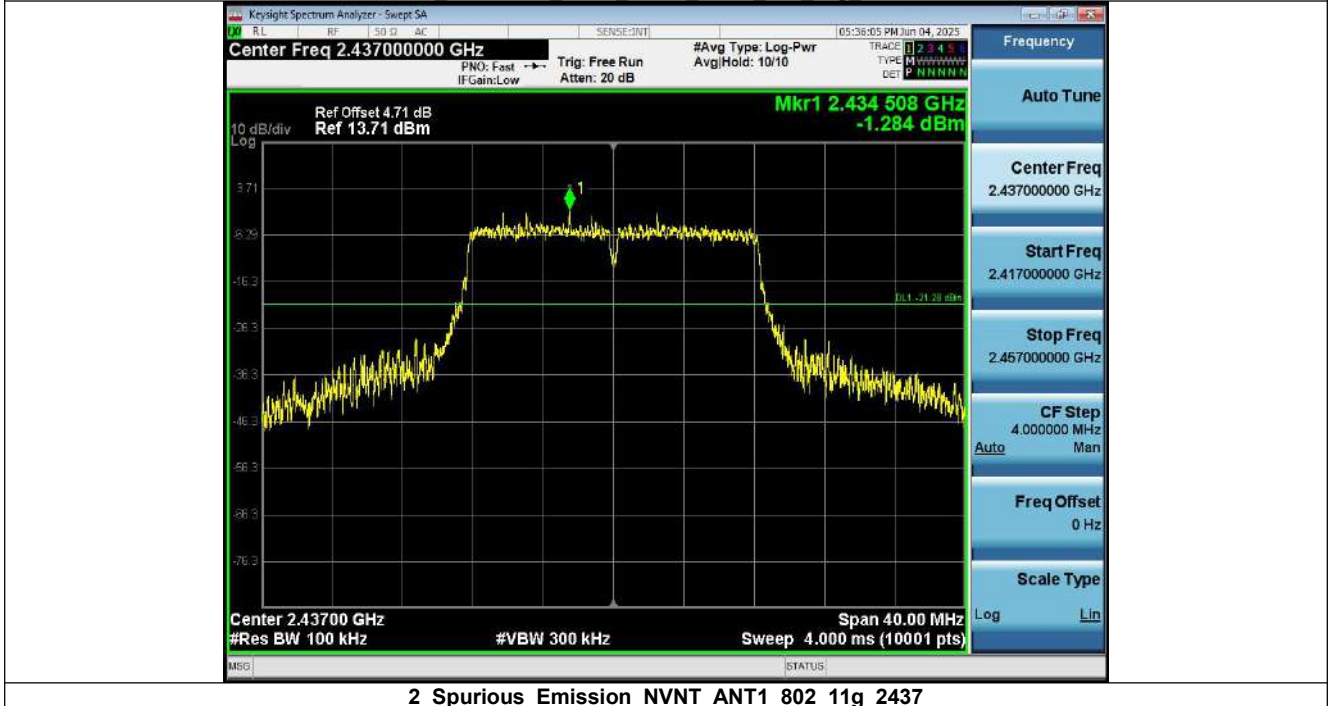
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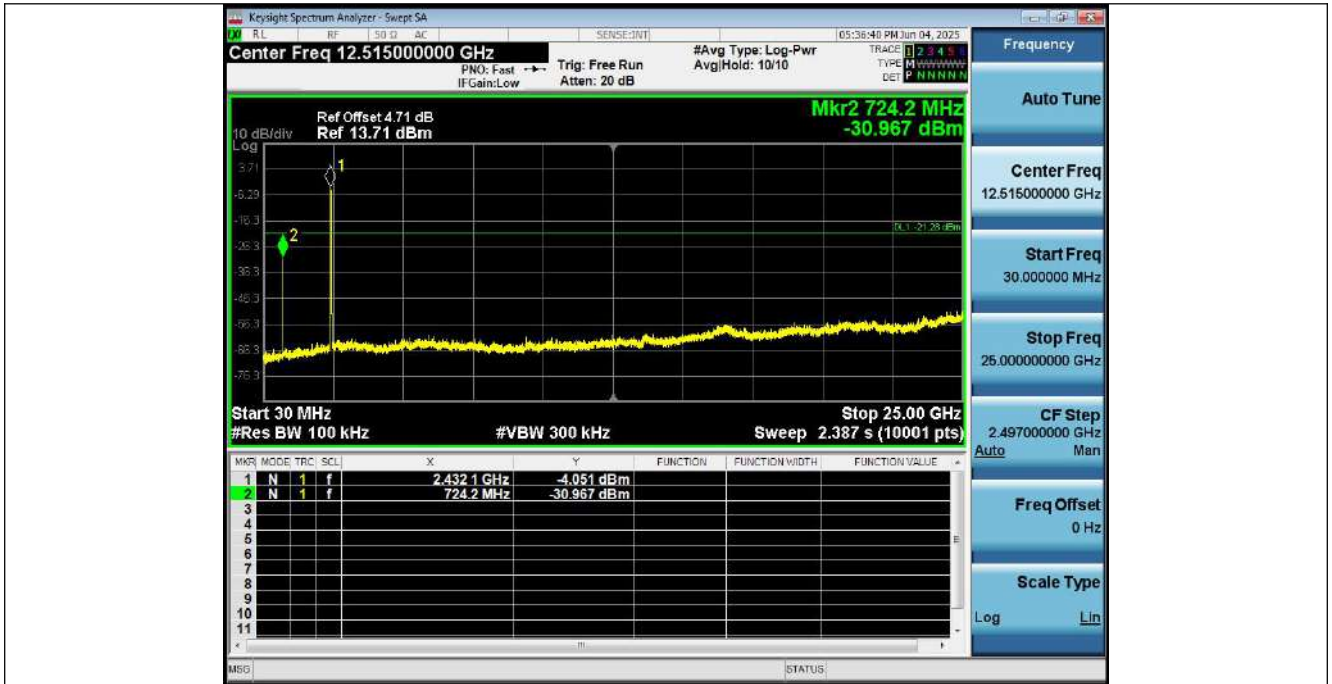
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1 Reference Level NVNT ANT1 802 11g 2437



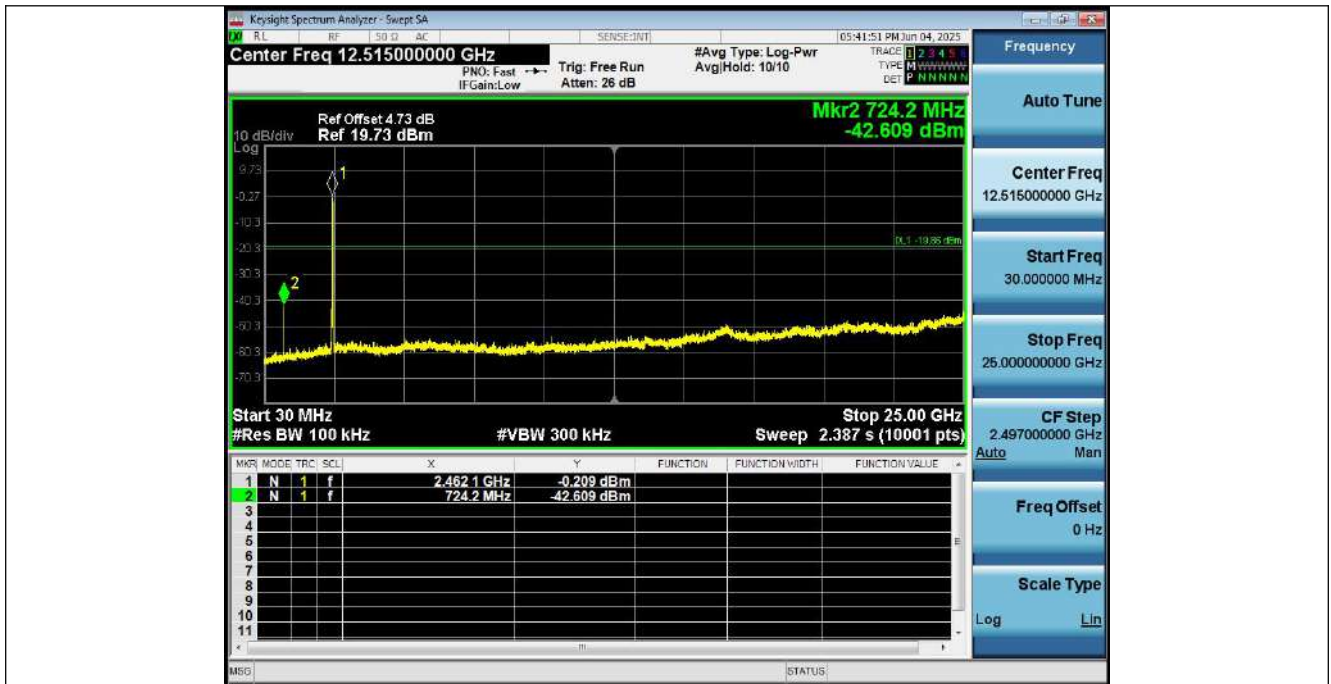
2 Spurious Emission NVNT ANT1 802 11g 2437



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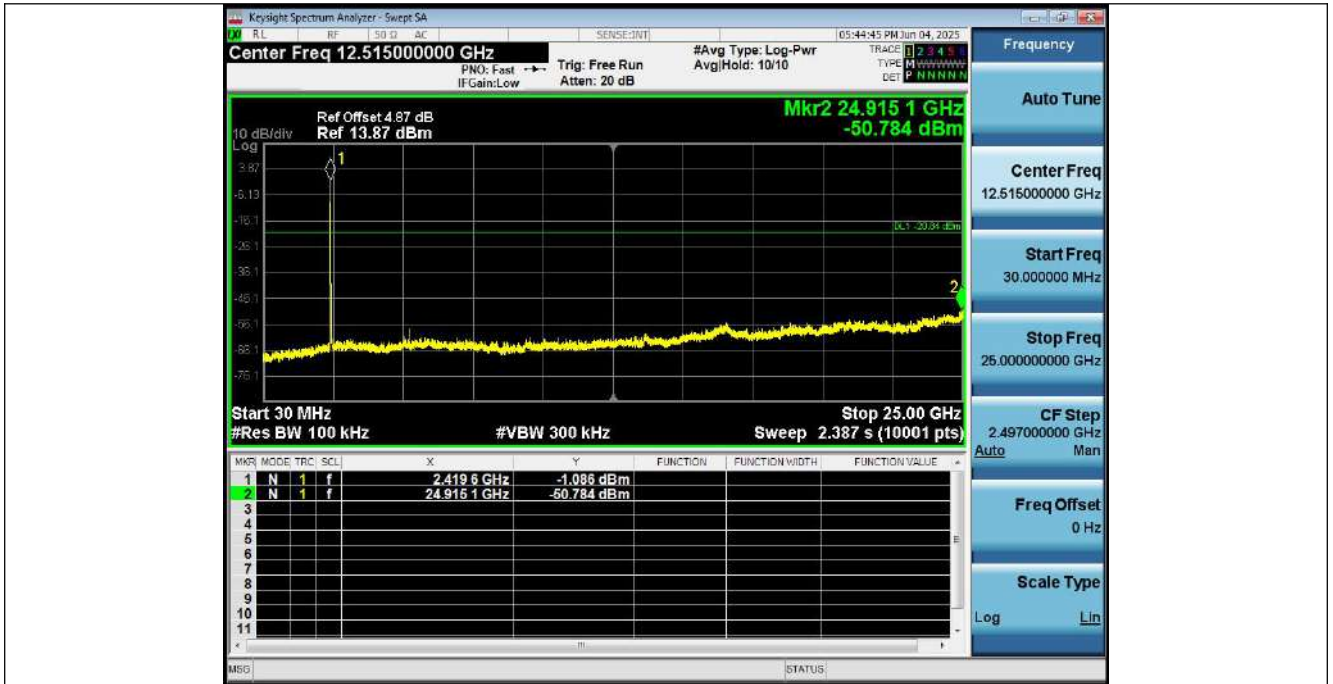
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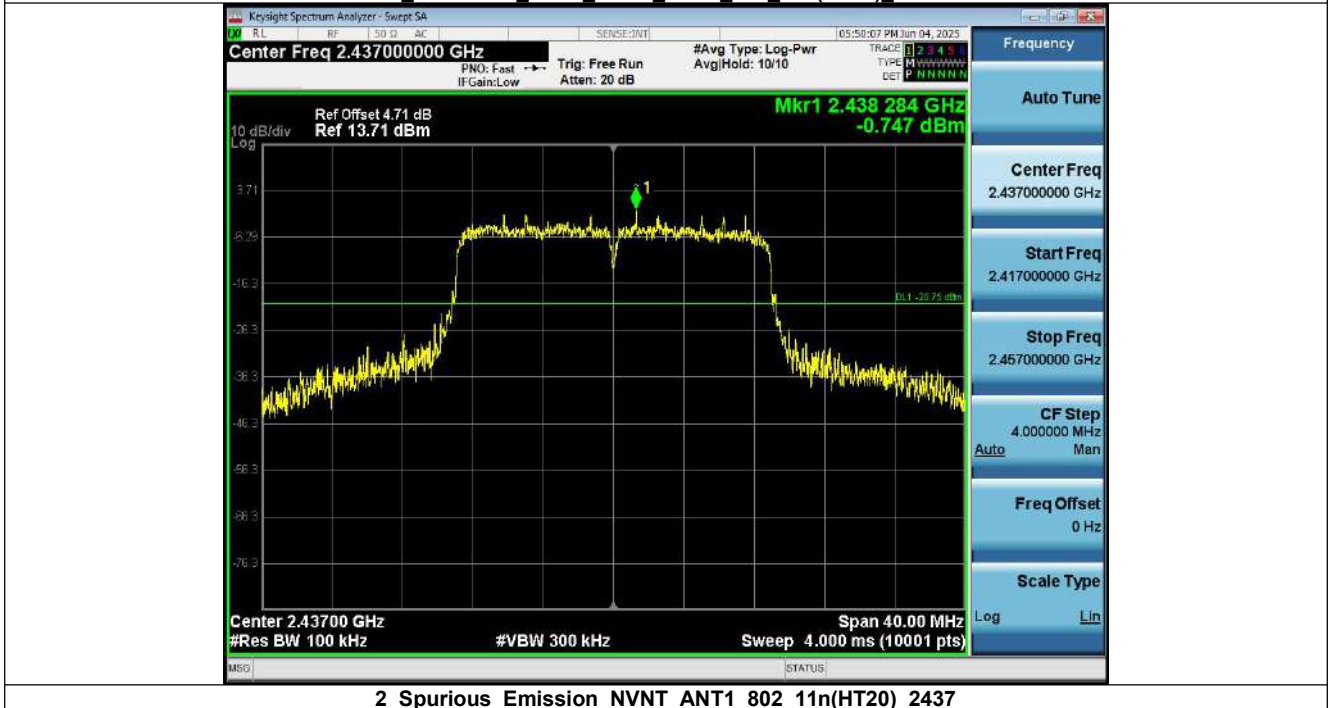
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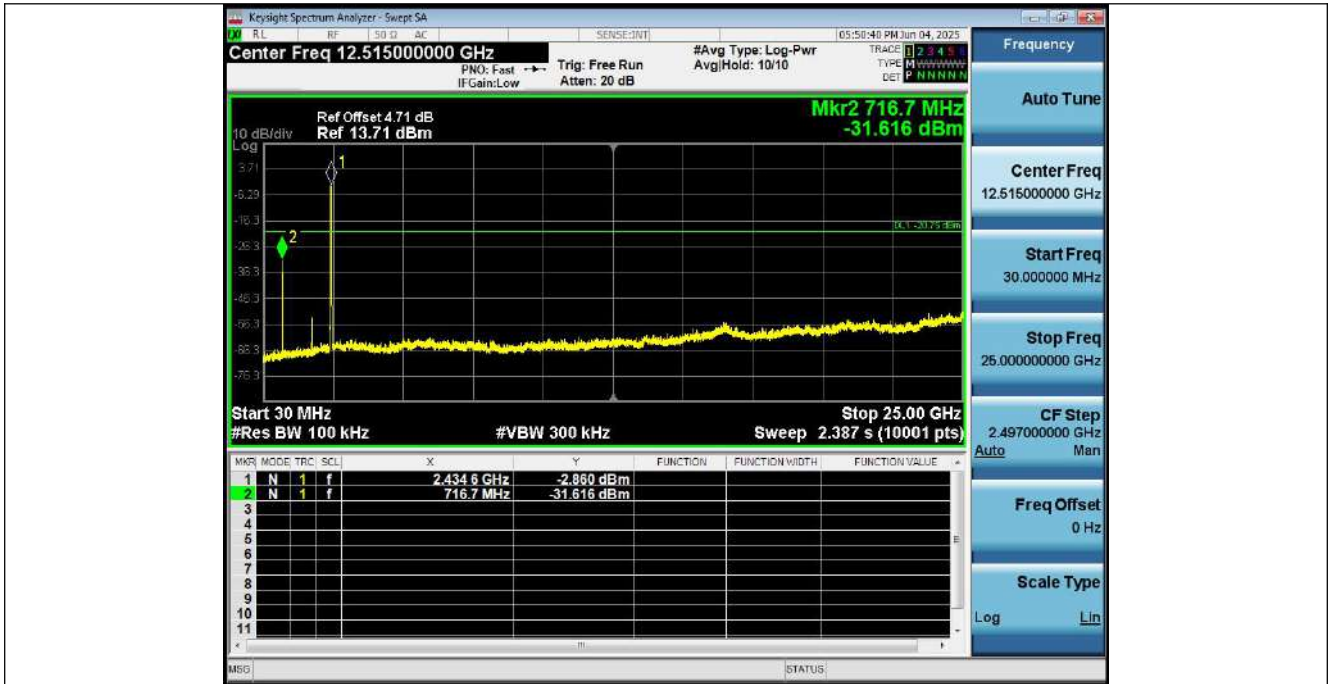
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1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



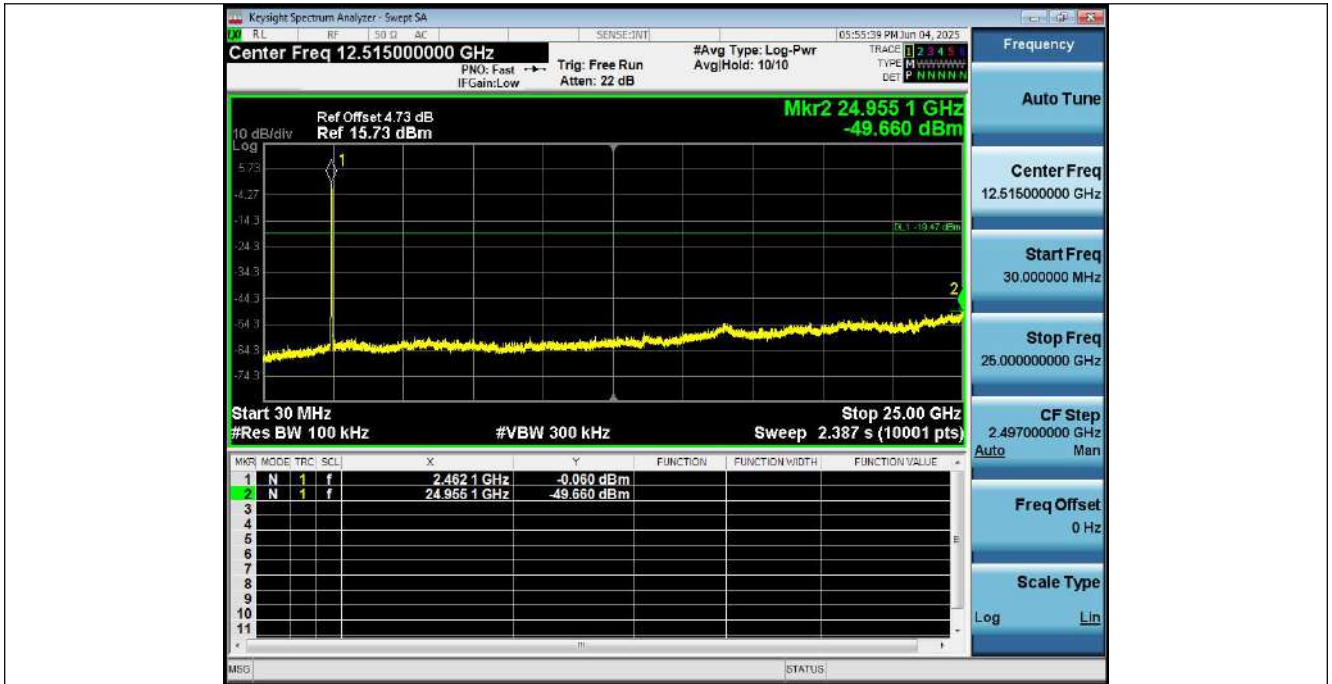
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1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



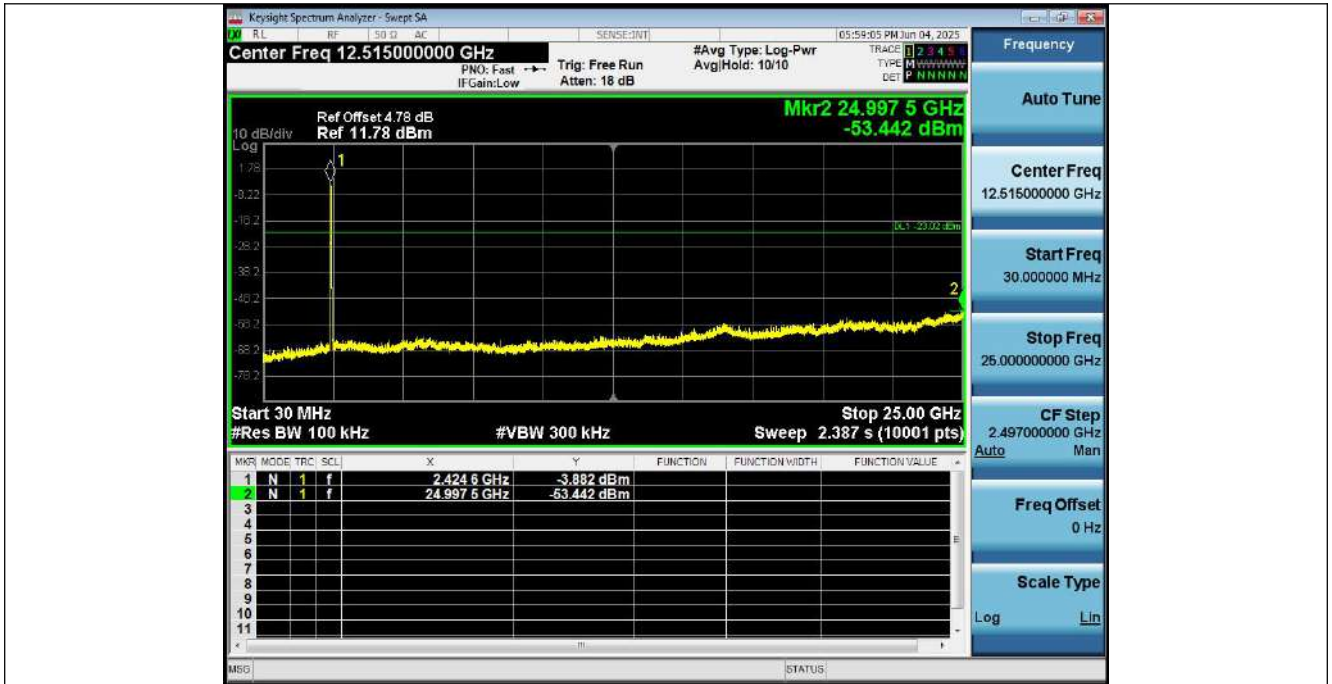
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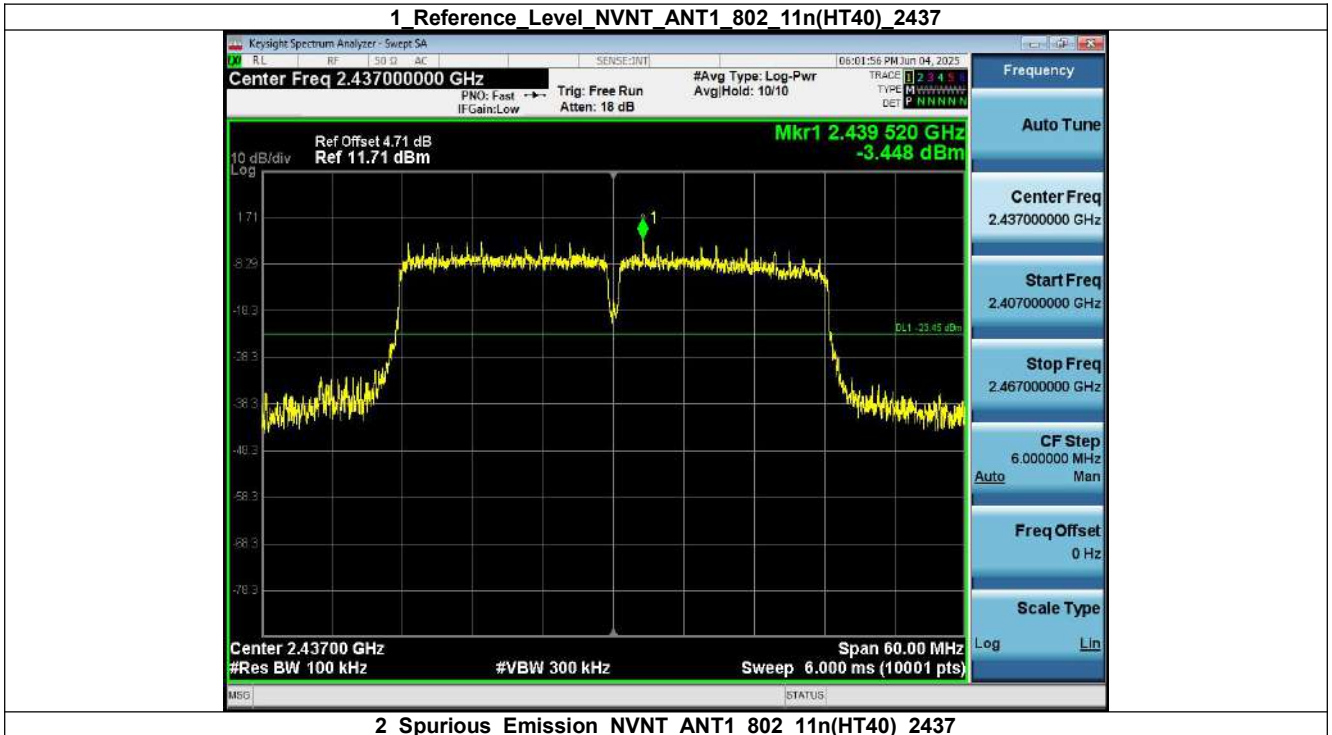
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2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2422



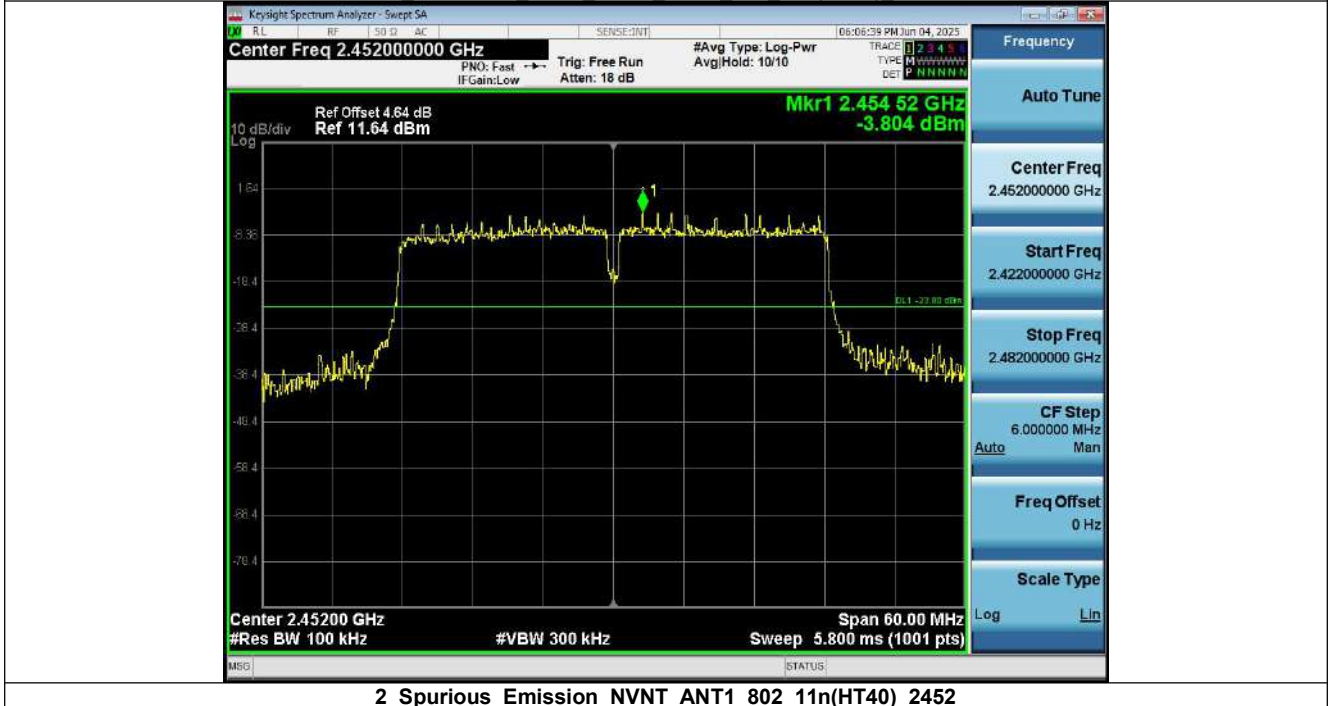
1 Reference Level NVNT ANT1_802_11n(HT40)_2437



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

