

FCC TEST REPORT

FCC ID:2BC96NI-8411

Product : Birdfy Feeder Bamboo Mini
Model Name : NI-8411, NI-8410, NI-8412, NI-8413, NI-8414,
NI-8415, NI-8416 ,NI-8417, NI-8418, NI-8419
Brand : Birdfy
Report No. : NCT240341135XE1-2

Prepared for

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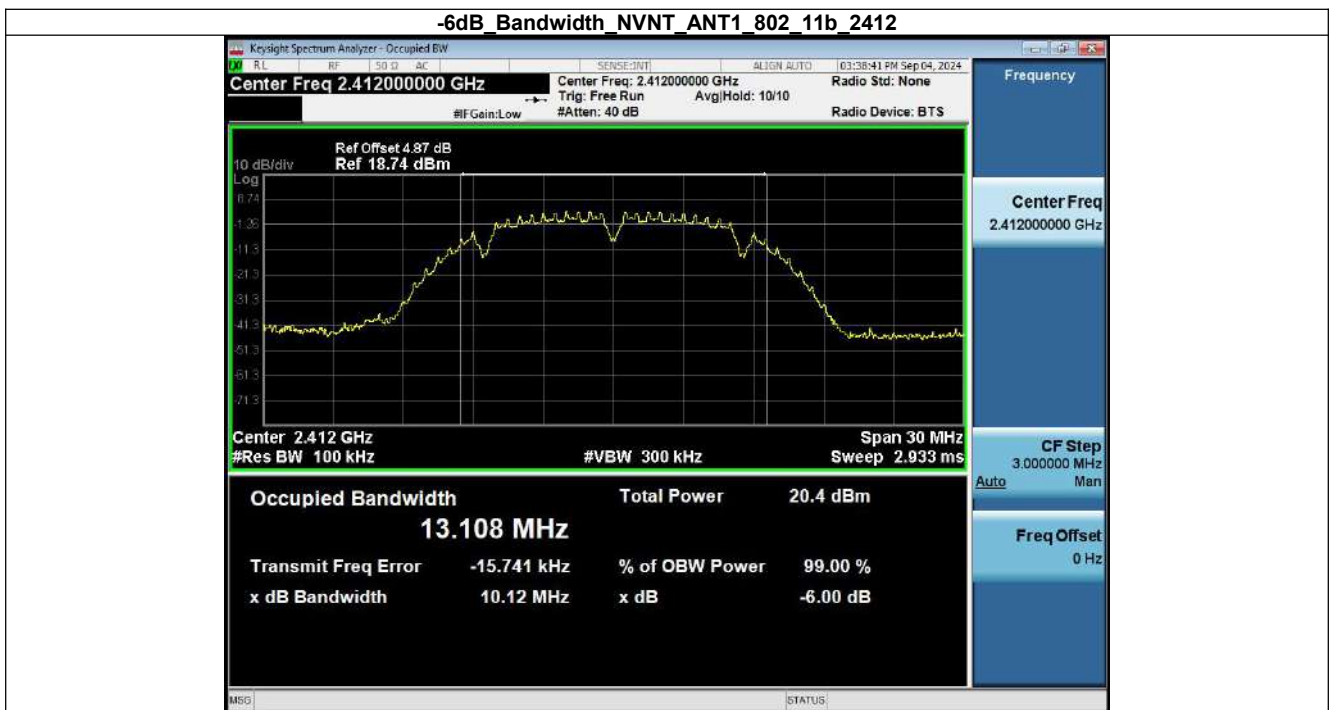
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FCC ID

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	10.12	500	Pass
NVNT	ANT1	802.11b	2437.00	10.12	500	Pass
NVNT	ANT1	802.11b	2462.00	10.11	500	Pass
NVNT	ANT1	802.11g	2412.00	16.46	500	Pass
NVNT	ANT1	802.11g	2437.00	16.41	500	Pass
NVNT	ANT1	802.11g	2462.00	16.42	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.64	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.65	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.62	500	Pass



-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



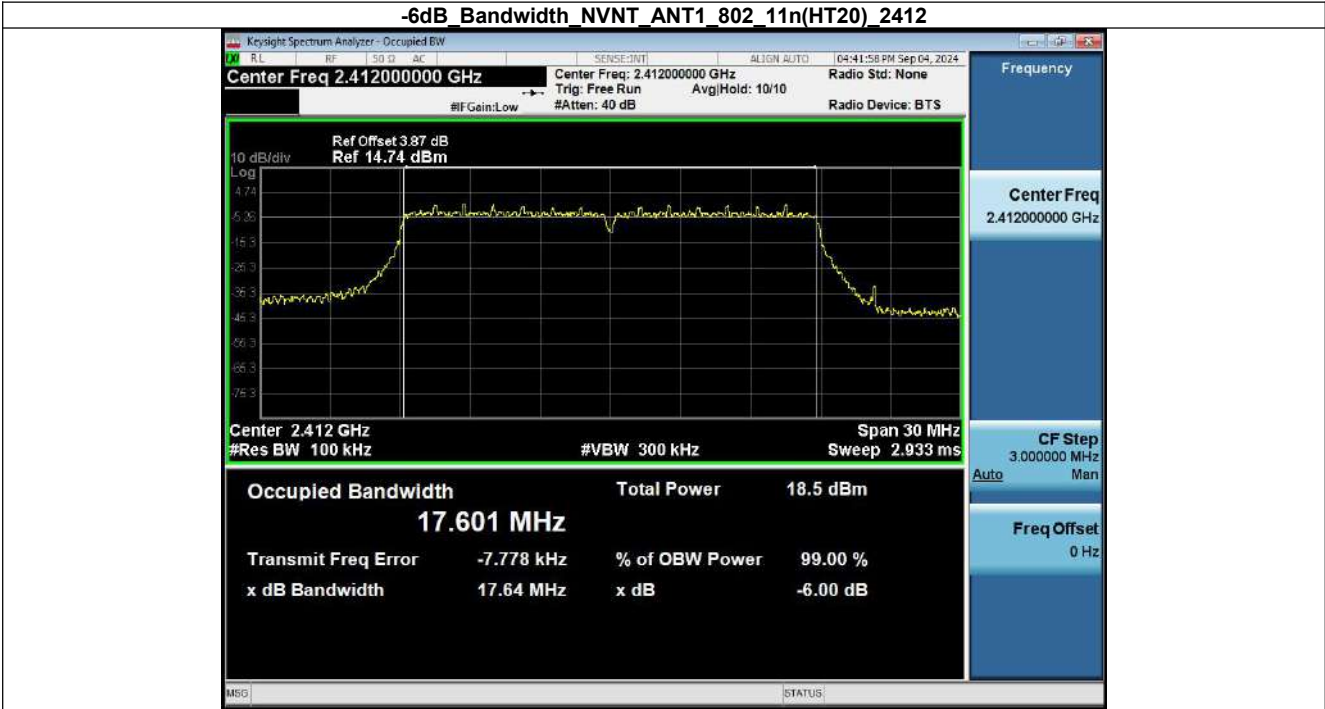
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-6dB Bandwidth NVNT_ANT1_802_11g_2462



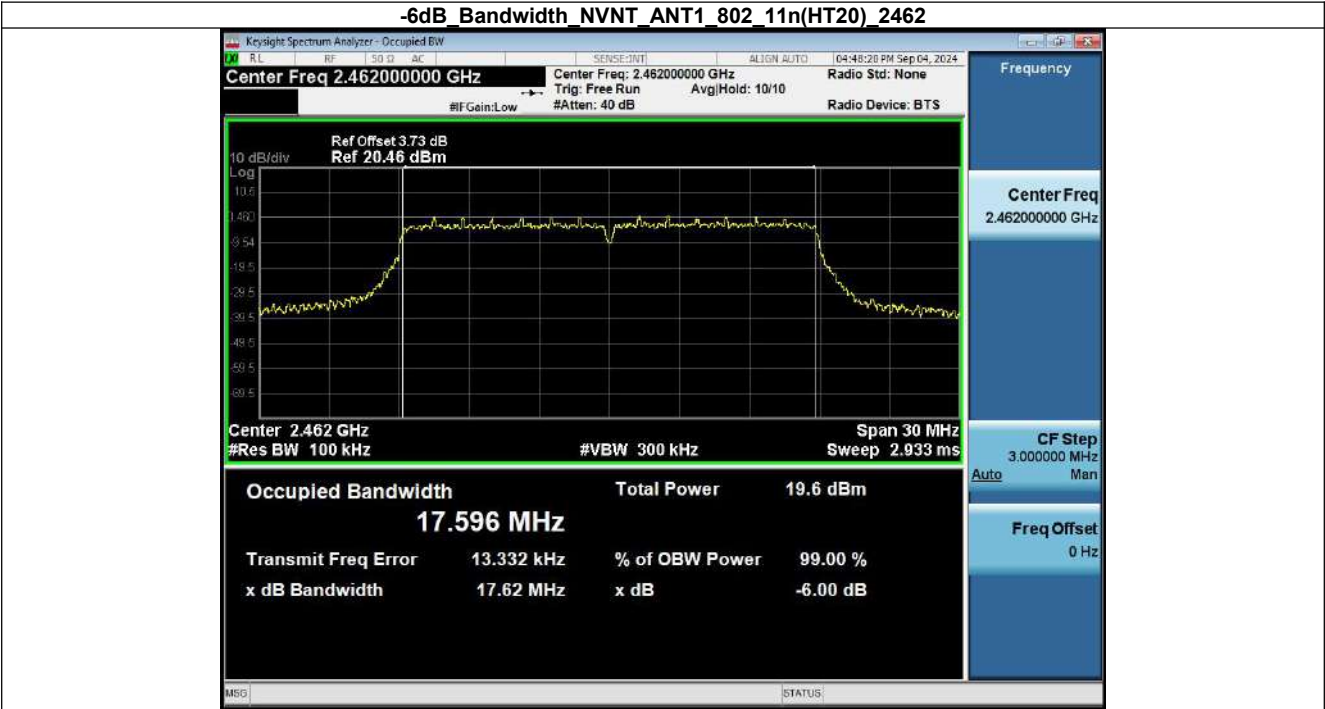
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

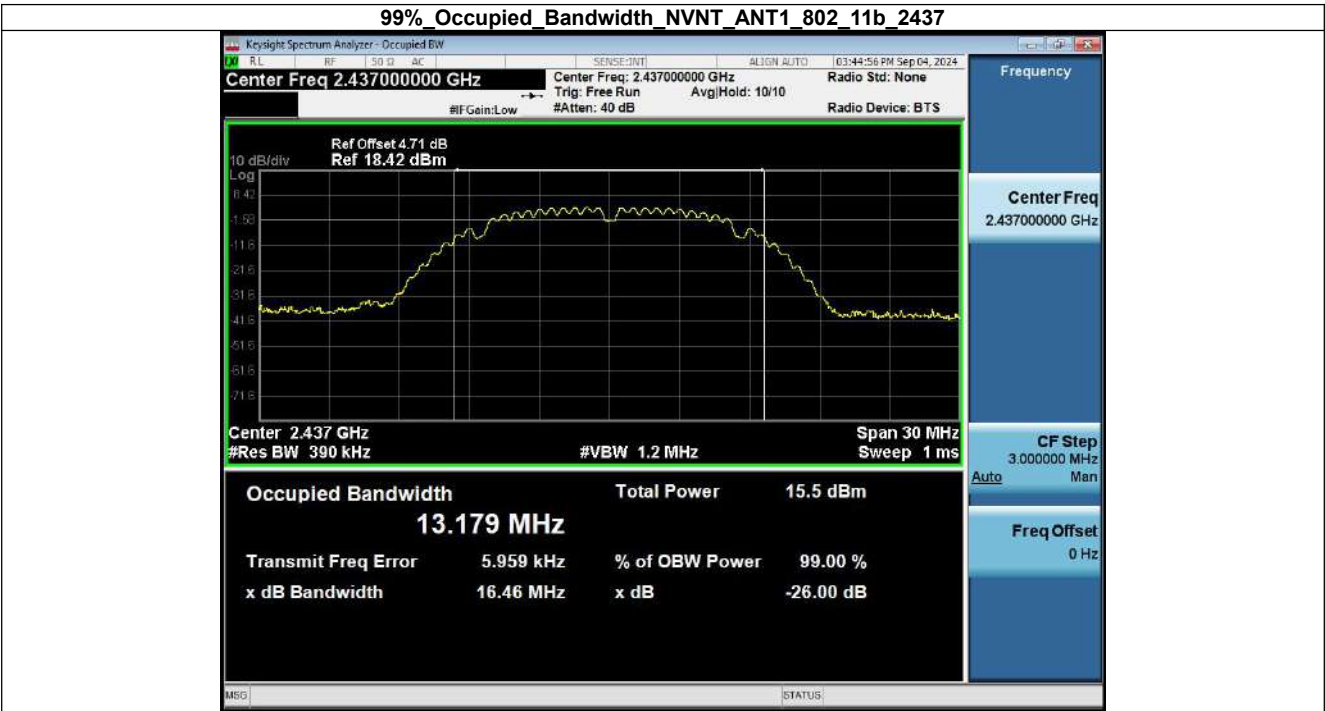
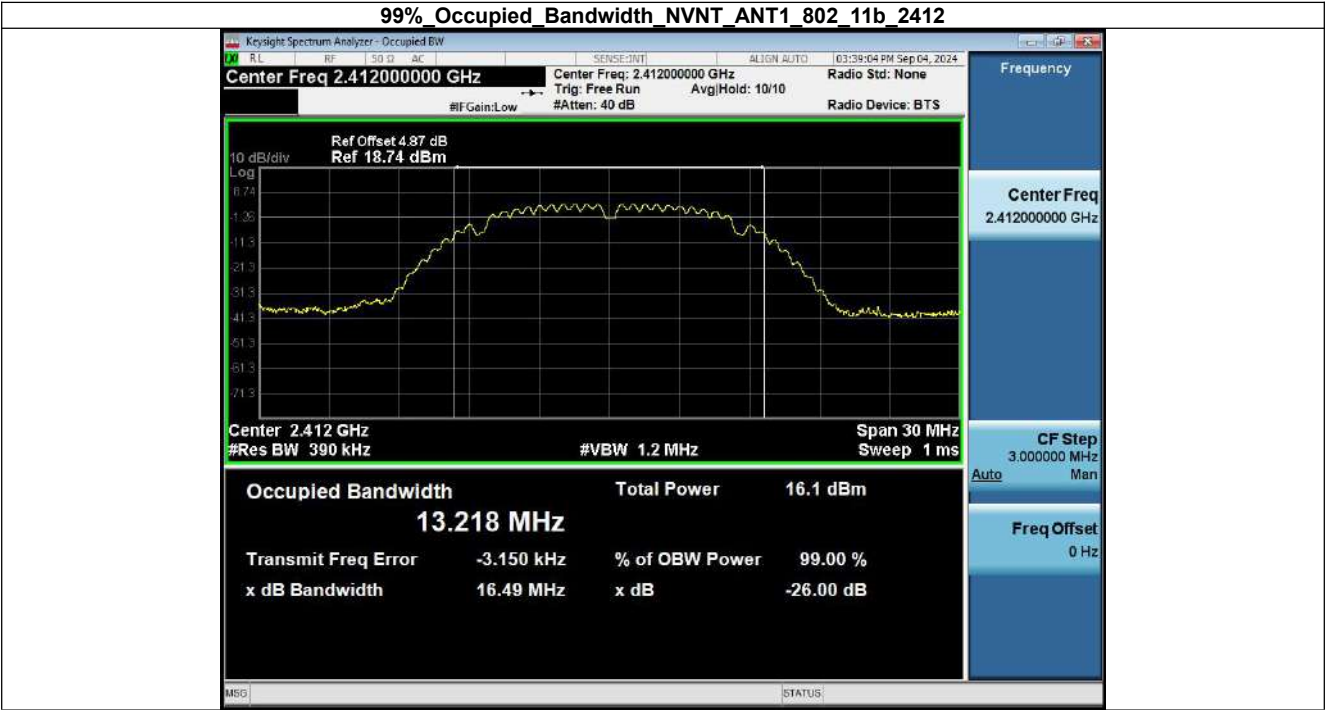


-6dB Bandwidth NVNT_ANT1 802_11n(HT20) 2462



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.218
NVNT	ANT1	802.11b	2437.00	13.179
NVNT	ANT1	802.11b	2462.00	13.105
NVNT	ANT1	802.11g	2412.00	16.979
NVNT	ANT1	802.11g	2437.00	16.997
NVNT	ANT1	802.11g	2462.00	16.966
NVNT	ANT1	802.11n(HT20)	2412.00	17.914
NVNT	ANT1	802.11n(HT20)	2437.00	17.914
NVNT	ANT1	802.11n(HT20)	2462.00	17.887



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

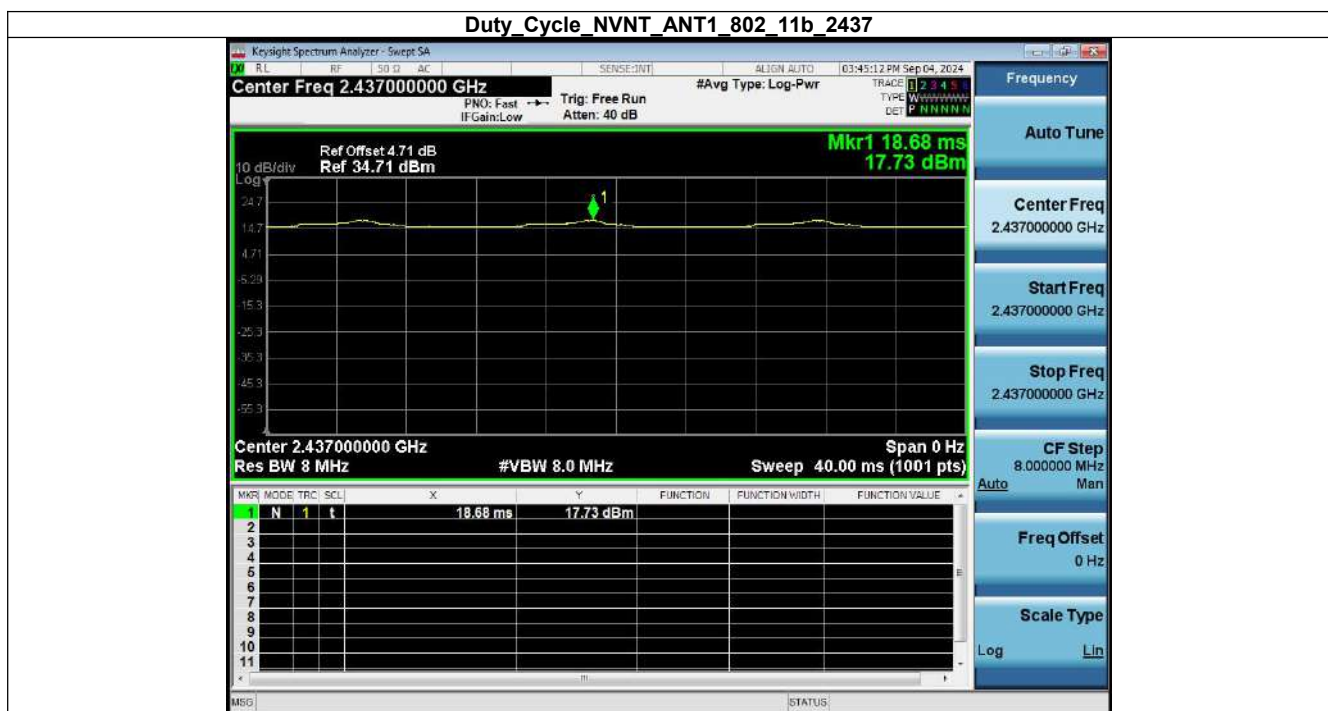
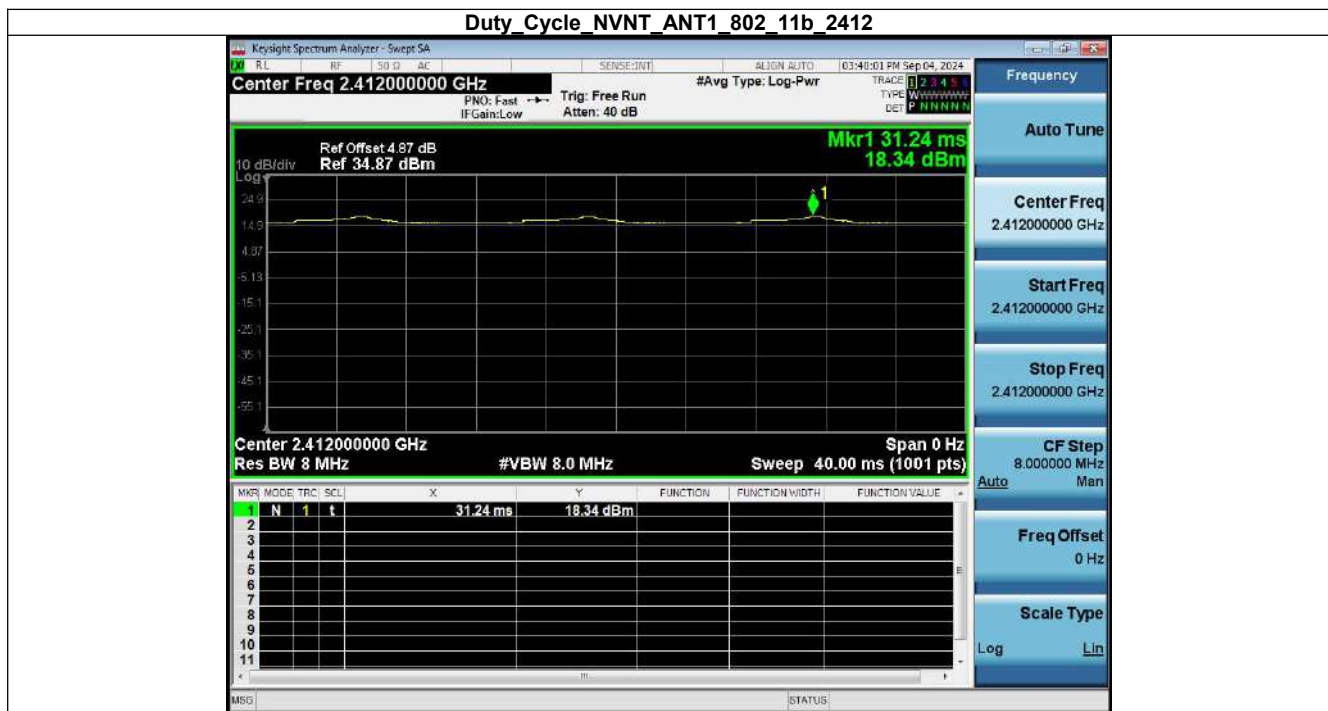


99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

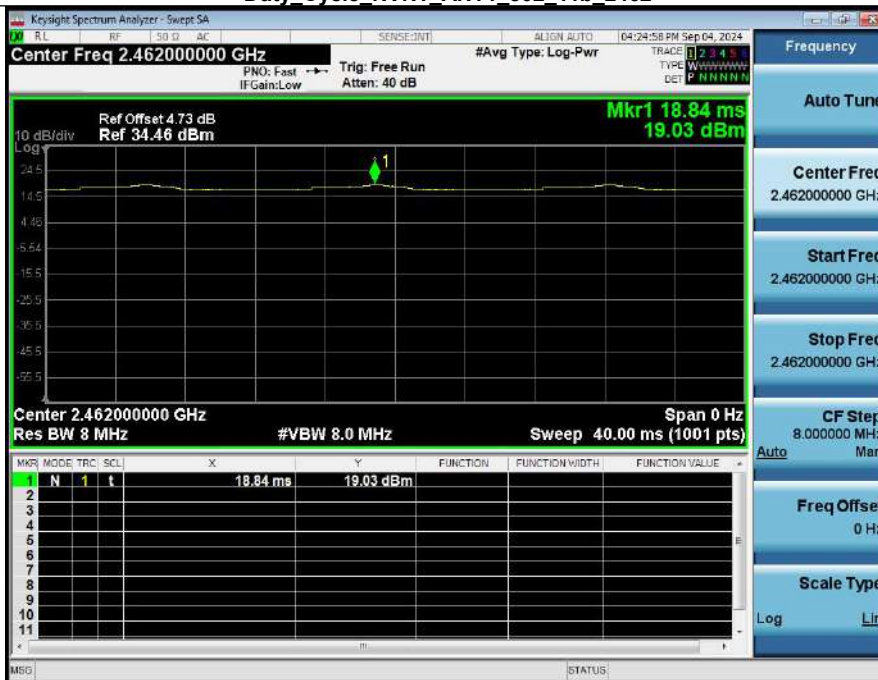


3. Duty Cycle

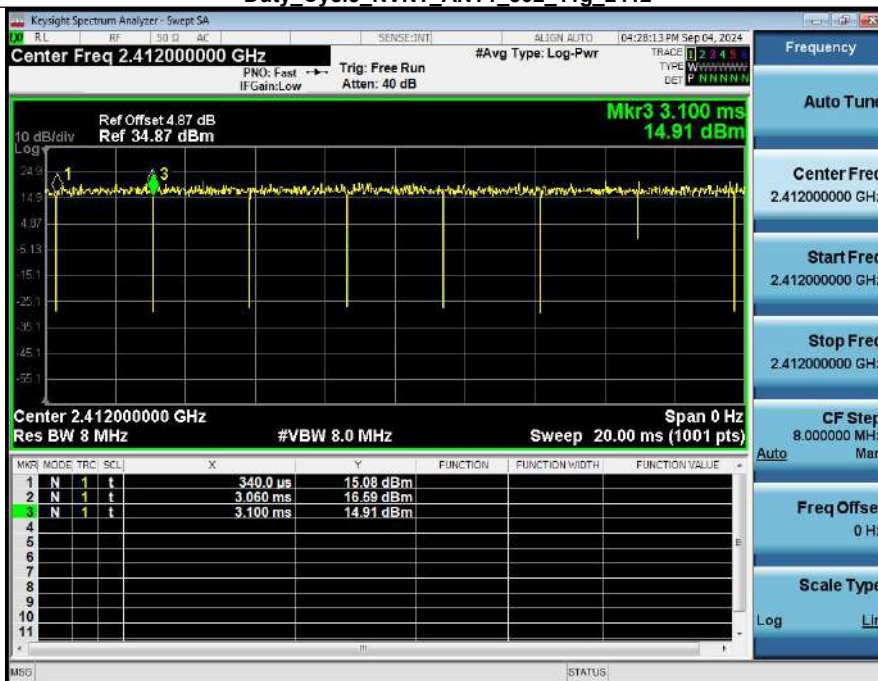
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	99.28	0.00
NVNT	ANT1	802.11g	2437.00	99.28	0.00
NVNT	ANT1	802.11g	2462.00	99.28	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	99.22	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	99.22	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	99.22	0.00



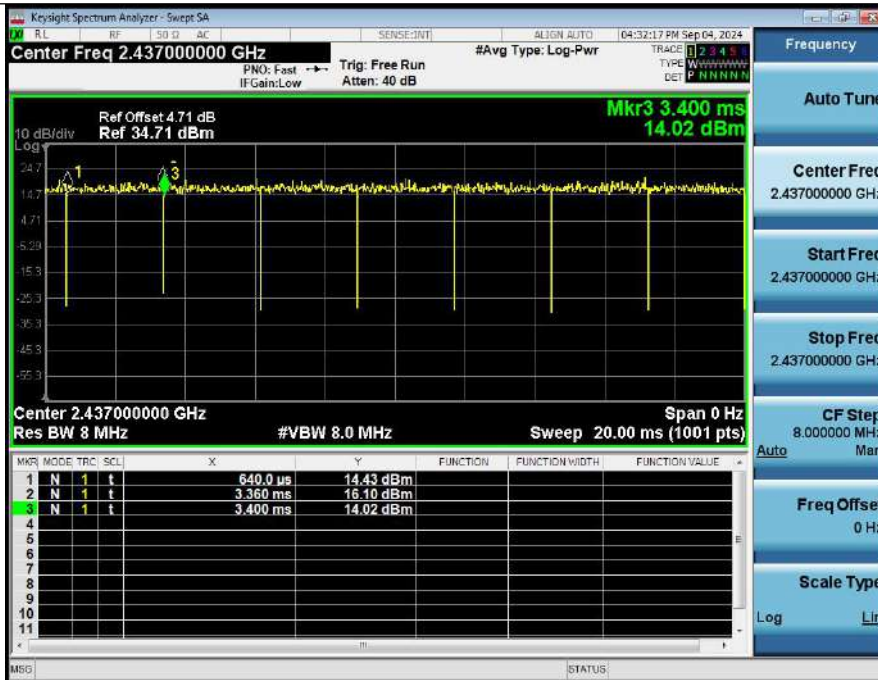
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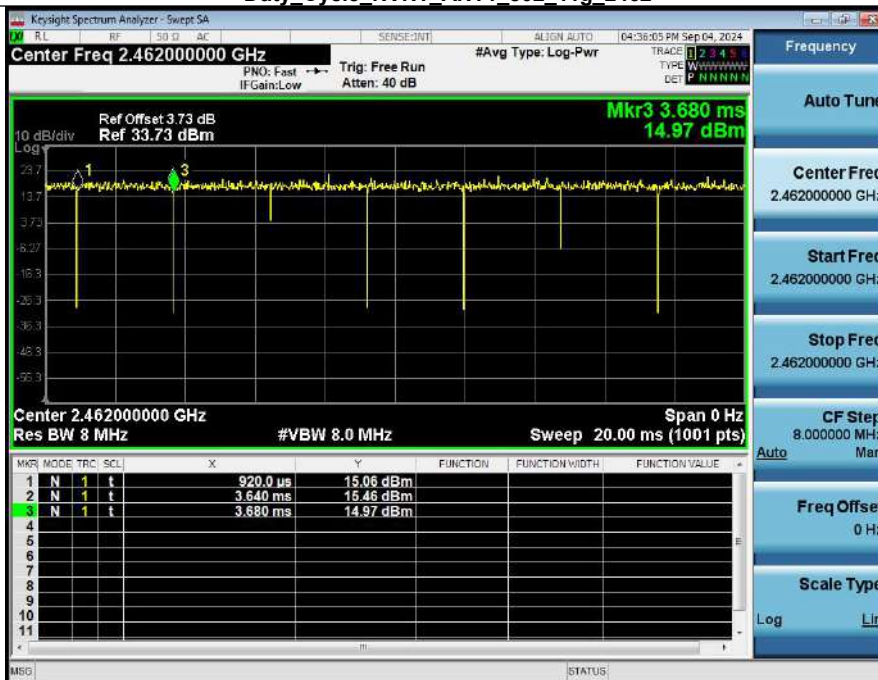
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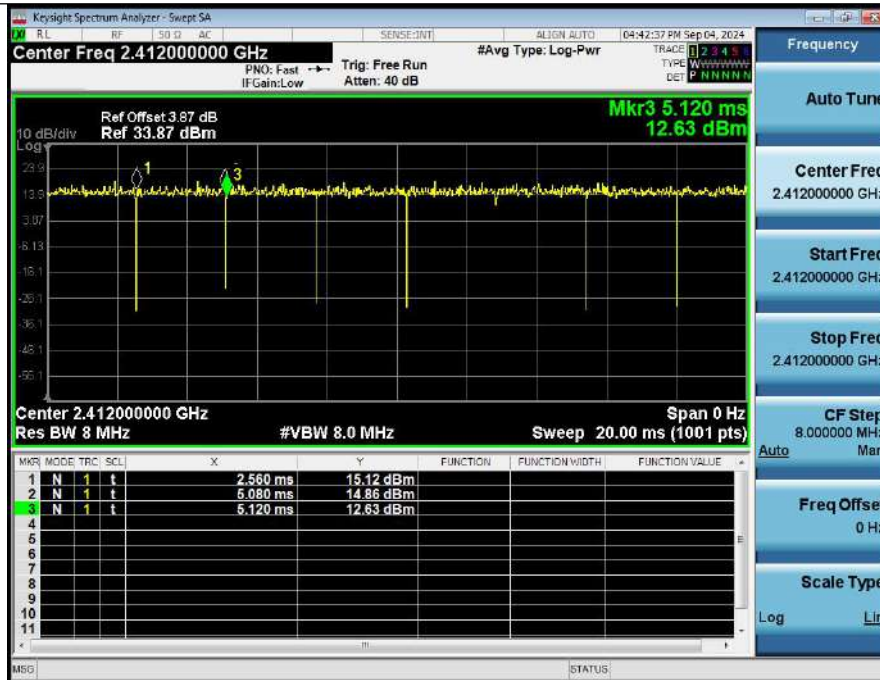
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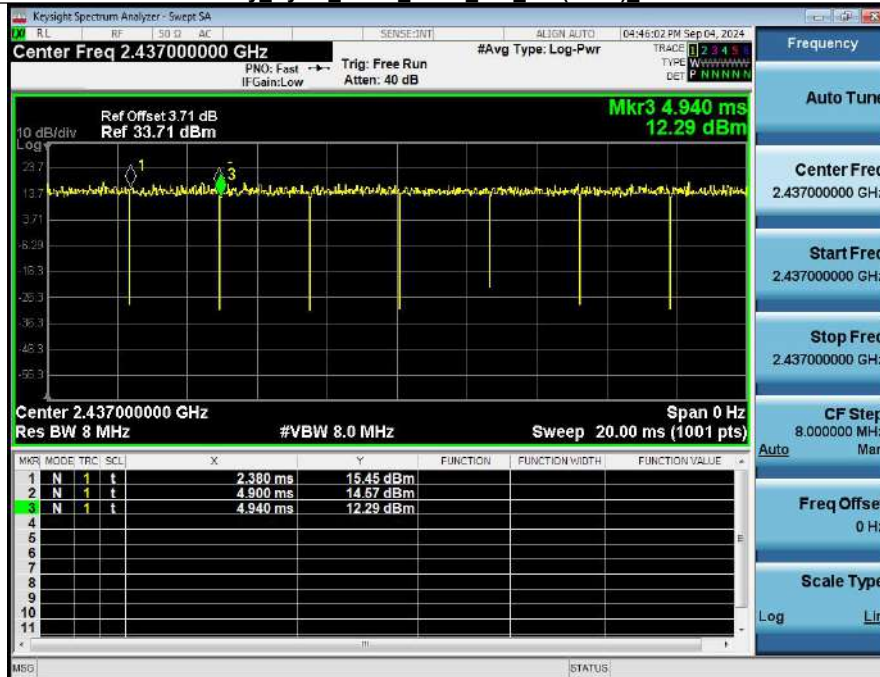
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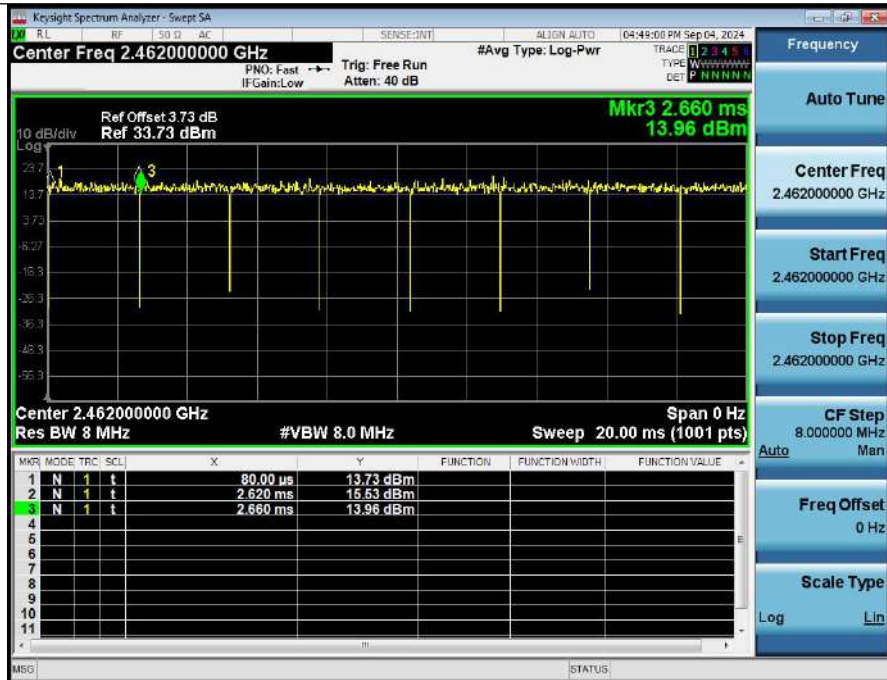
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Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	18.89	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	18.33	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	18.85	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	16.46	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	16.89	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	16.51	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	15.71	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	16.13	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	16.81	30	Pass

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	0.62	-10.00	-9.38	8	Pass
NVNT	ANT1	802.11b	2437.00	-0.13	-10.00	-10.13	8	Pass
NVNT	ANT1	802.11b	2462.00	1.69	-10.00	-8.31	8	Pass
NVNT	ANT1	802.11g	2412.00	-2.27	-10.00	-12.27	8	Pass
NVNT	ANT1	802.11g	2437.00	-3.08	-10.00	-13.08	8	Pass
NVNT	ANT1	802.11g	2462.00	-2.53	-10.00	-12.53	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-4.55	-10.00	-14.55	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-5.39	-10.00	-15.39	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-3.72	-10.00	-13.72	8	Pass



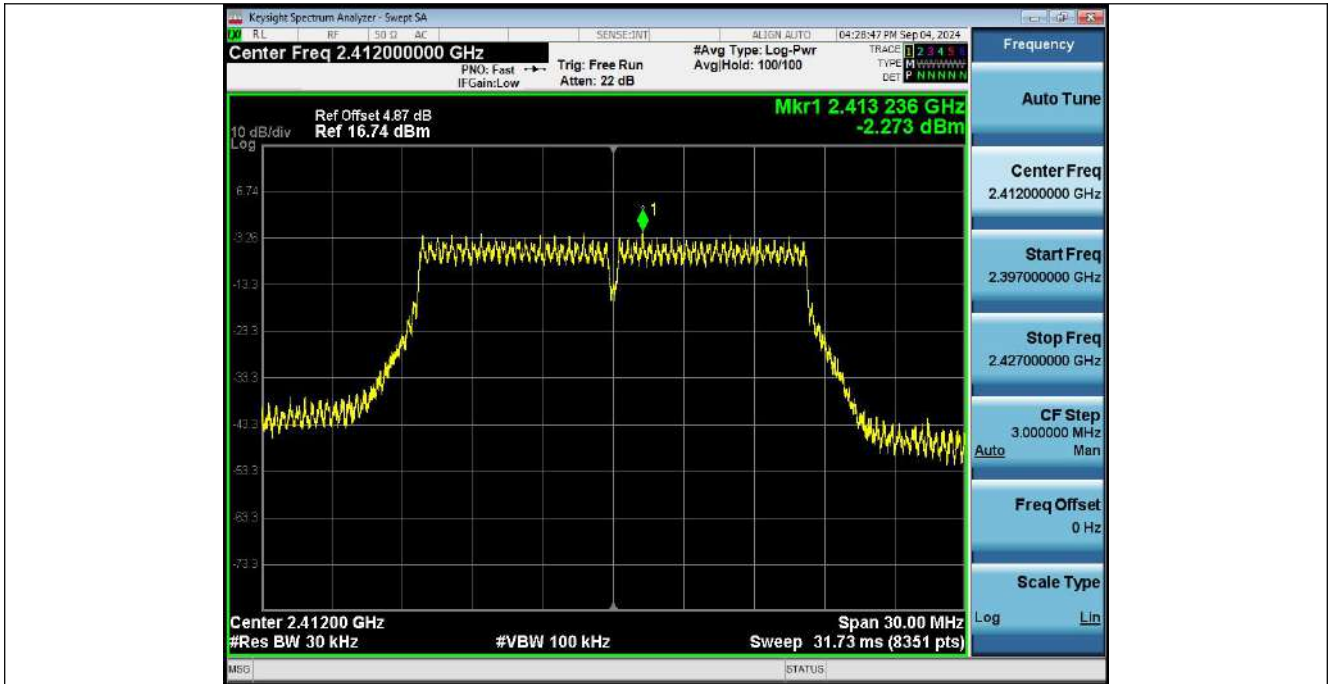
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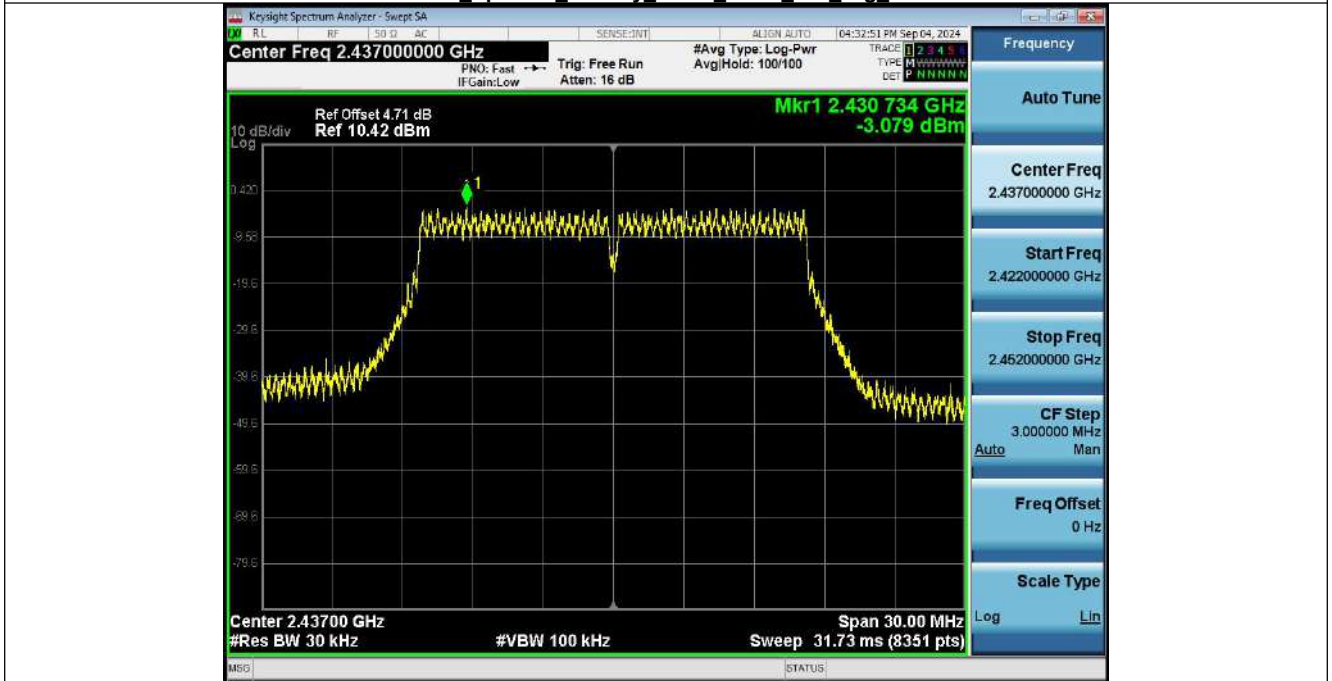
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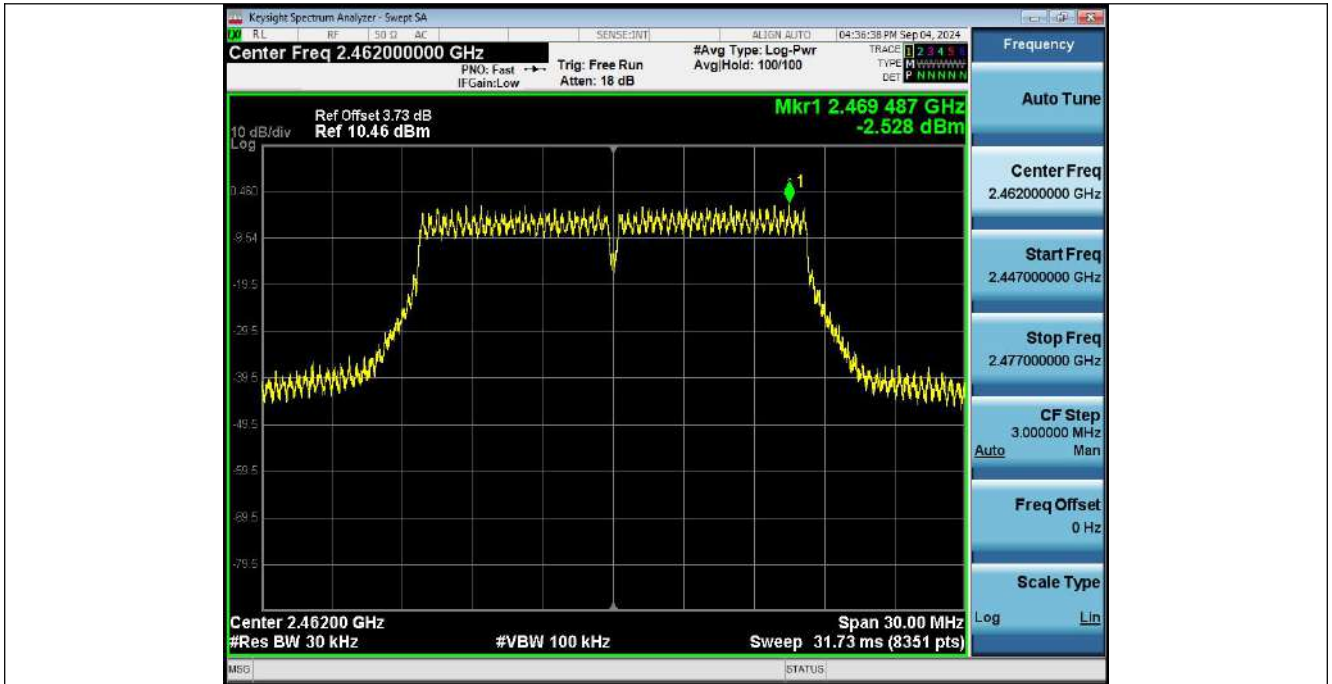
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Power_Spectral_Density_NVNT_ANT1_802_11g_2437



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



6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2397.024	-42.582	-16.509	Pass
NVNT	ANT1	802.11b	2462.00	2488.912	-50.140	-15.609	Pass
NVNT	ANT1	802.11g	2412.00	2398.816	-33.179	-17.526	Pass
NVNT	ANT1	802.11g	2462.00	2483.920	-39.977	-17.581	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.152	-36.524	-20.154	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.872	-39.379	-19.284	Pass

1 Reference Level NVNT_ANT1_802_11b_2412



2 Bandedge_NVNT_ANT1_802_11b_2412



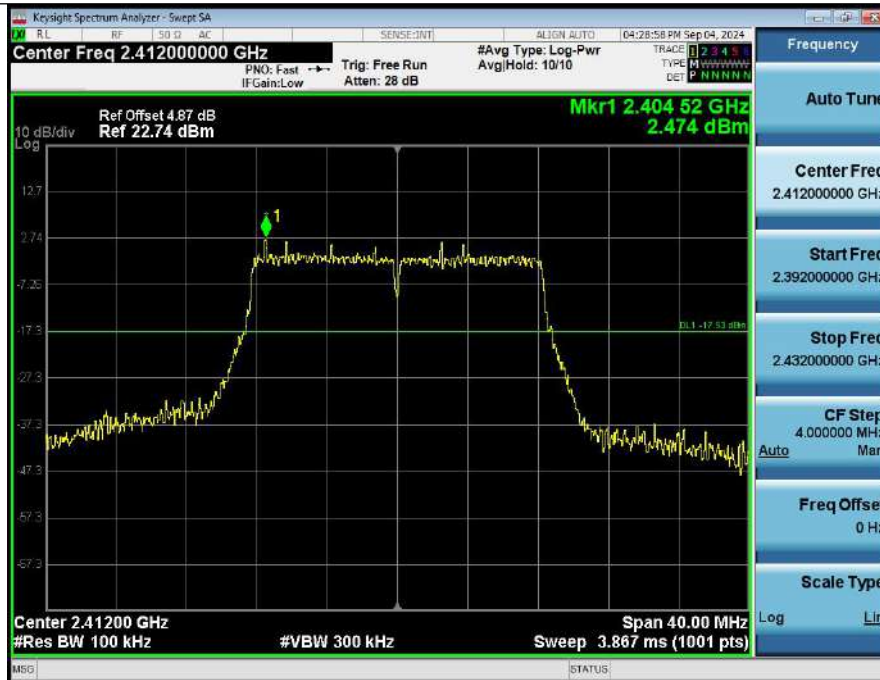
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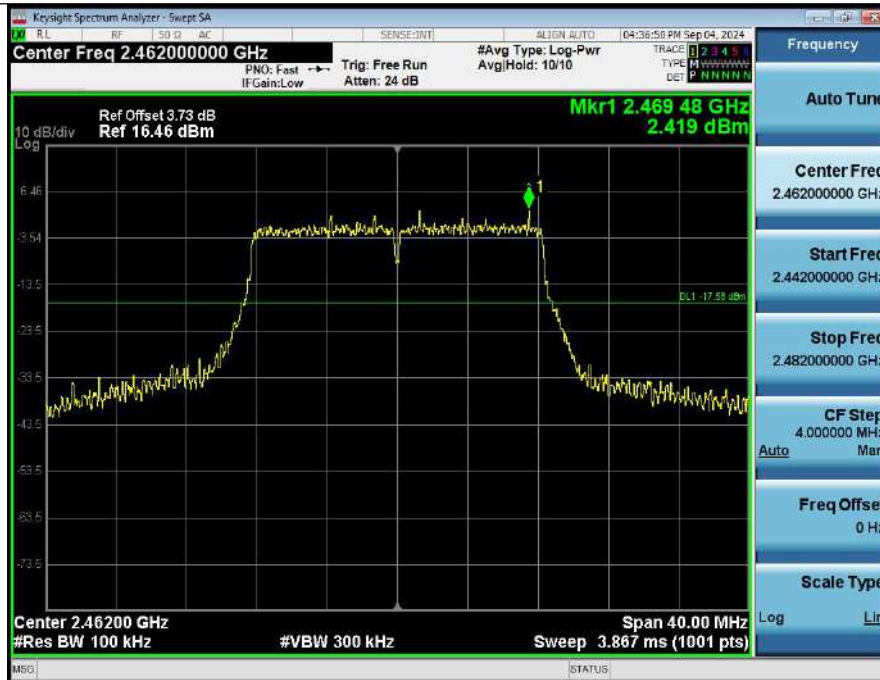
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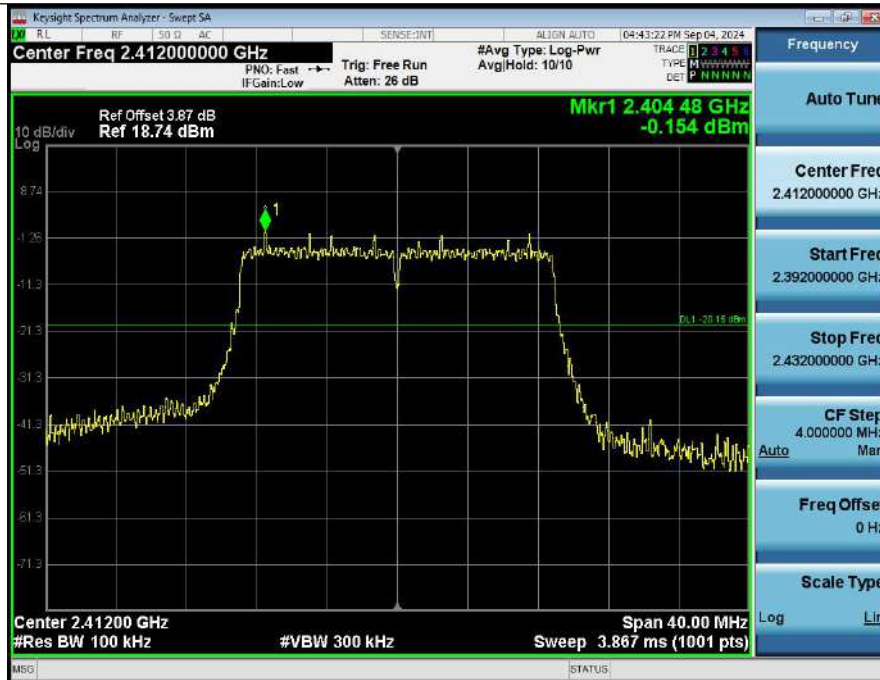
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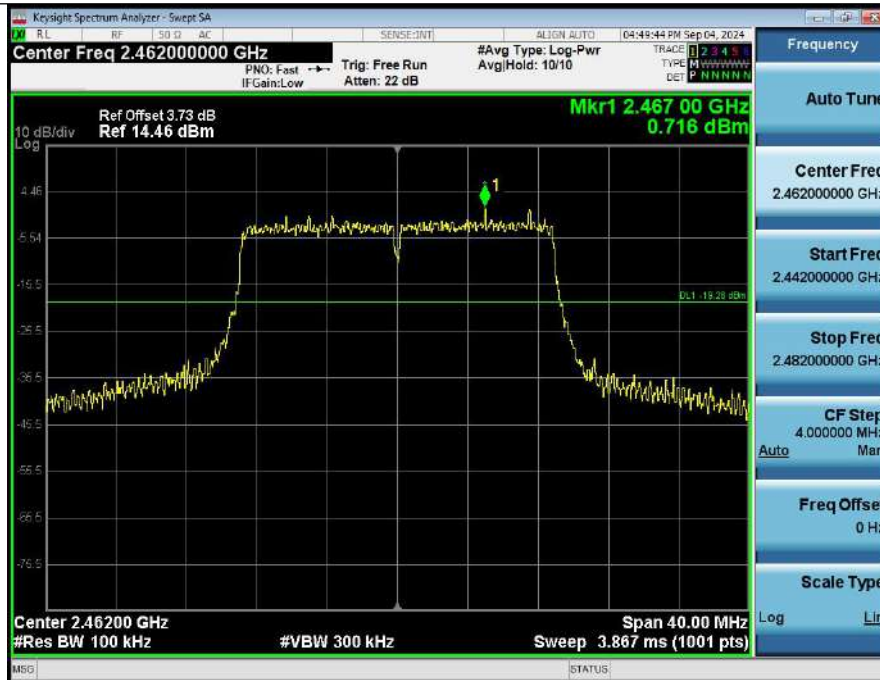
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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



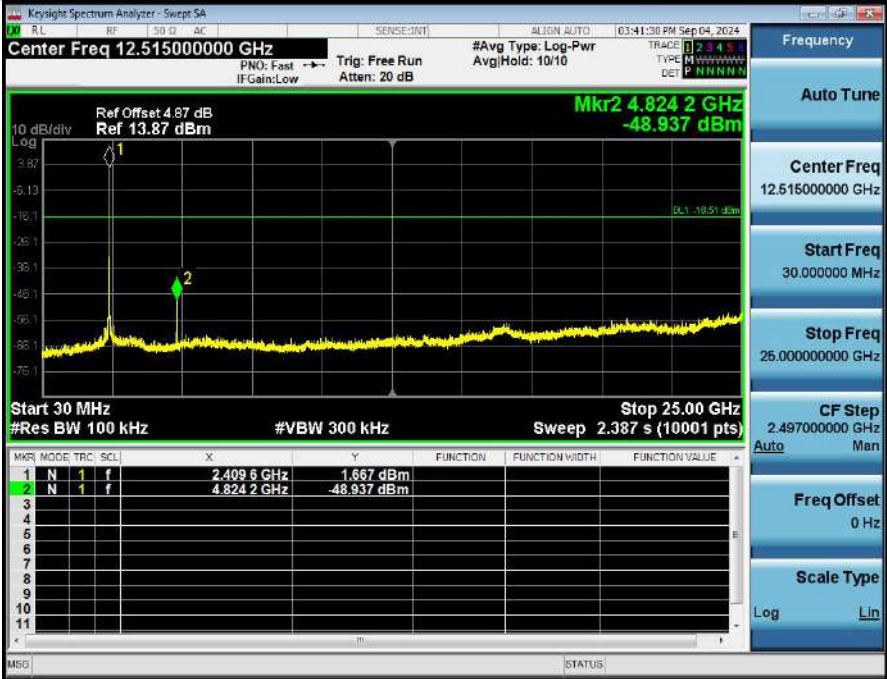
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	4824.240	-48.937	-16.509	Pass
NVNT	ANT1	802.11b	2437.00	4874.180	-50.551	-16.816	Pass
NVNT	ANT1	802.11b	2462.00	23616.662	-47.303	-15.609	Pass
NVNT	ANT1	802.11g	2412.00	24995.006	-49.174	-17.526	Pass
NVNT	ANT1	802.11g	2437.00	716.675	-53.656	-19.829	Pass
NVNT	ANT1	802.11g	2462.00	2502.030	-54.022	-17.581	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24985.018	-51.710	-20.154	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24960.048	-52.513	-20.988	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2502.030	-56.157	-19.284	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



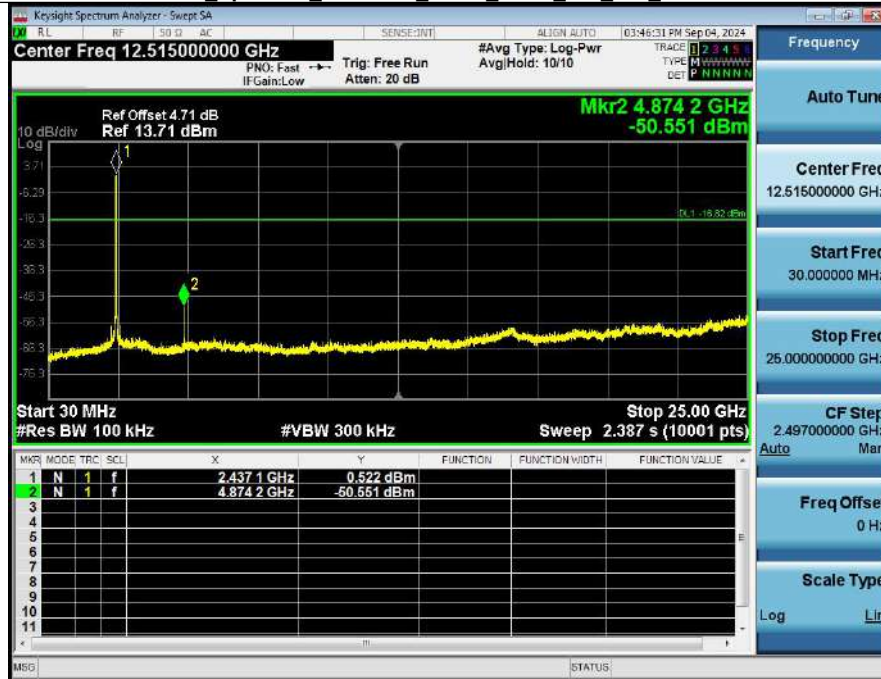
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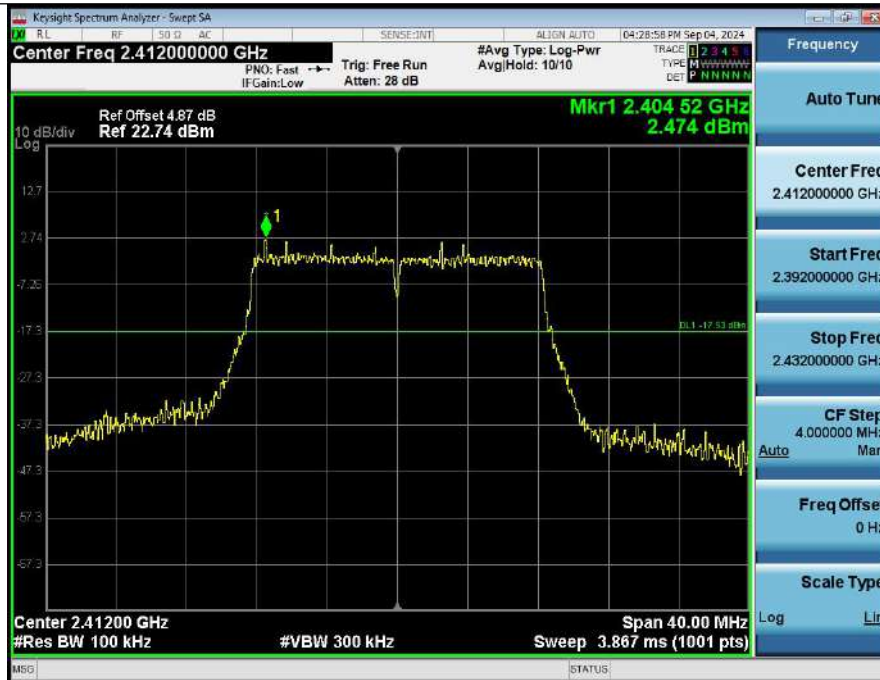
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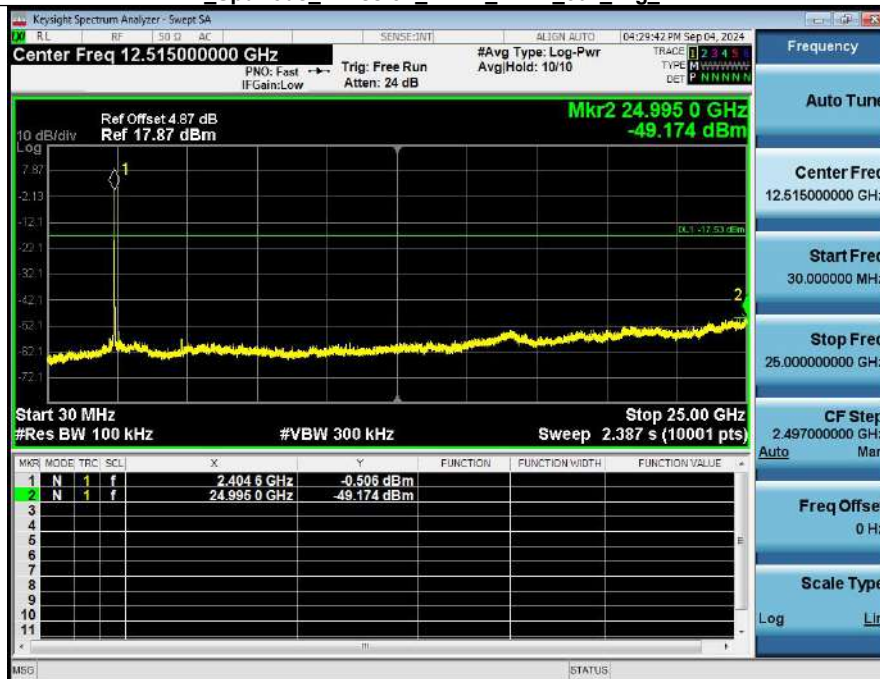
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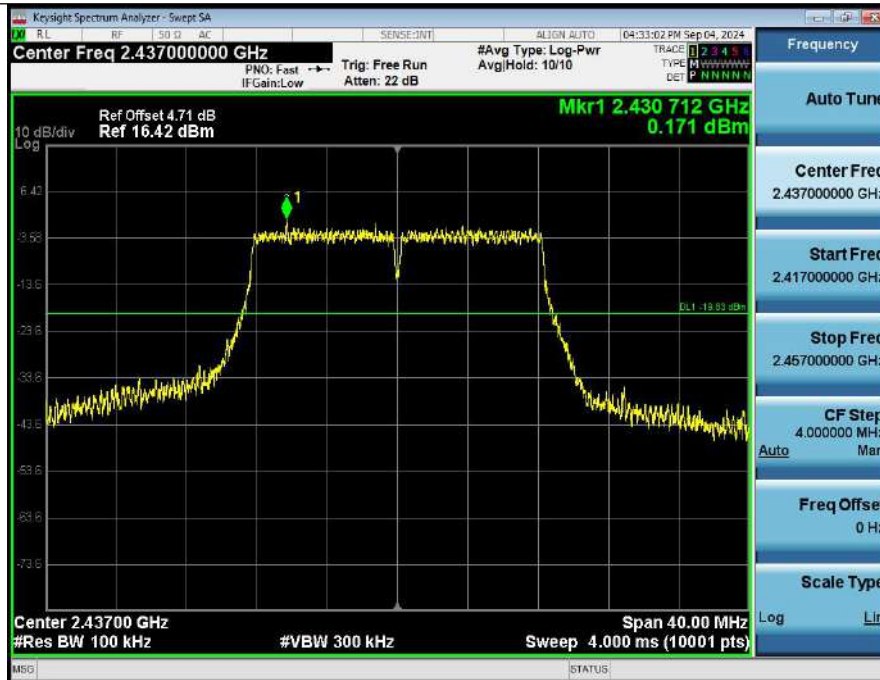
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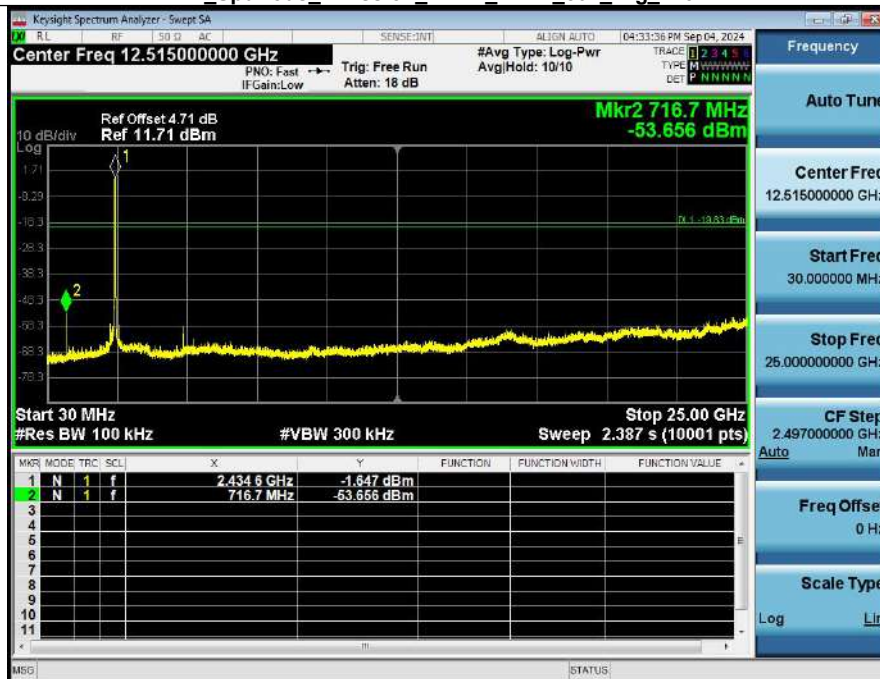
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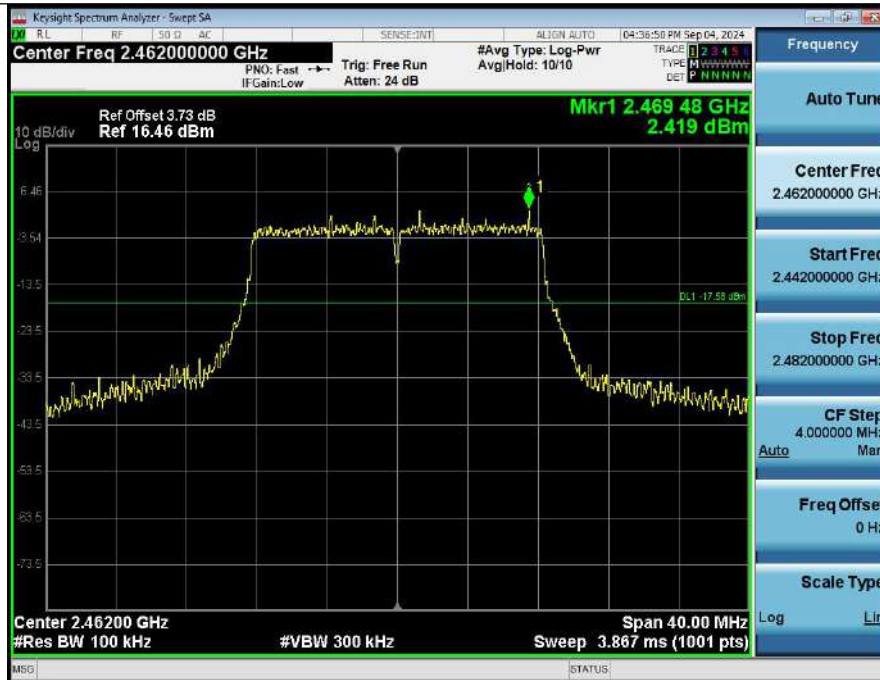
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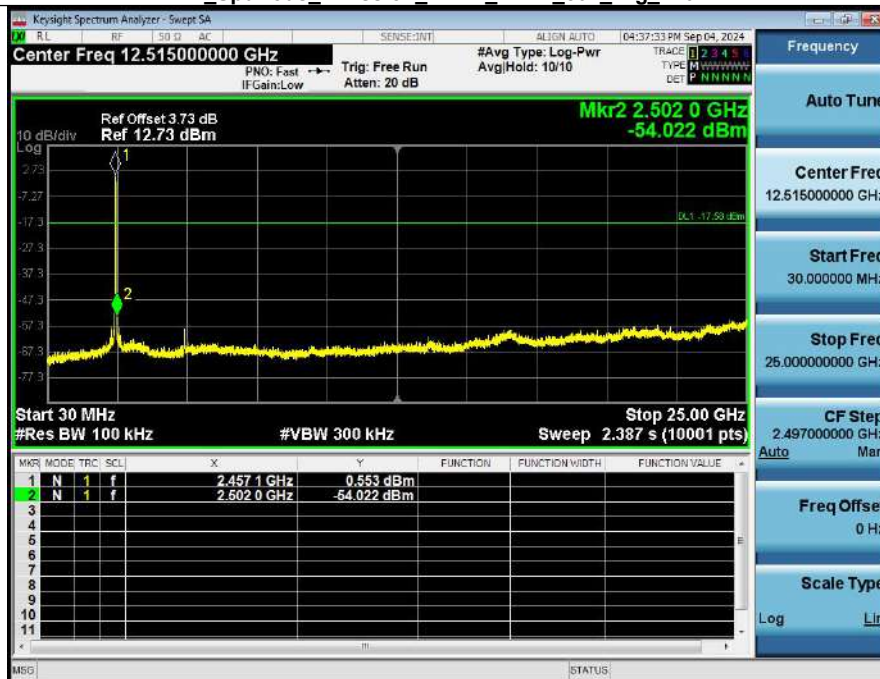
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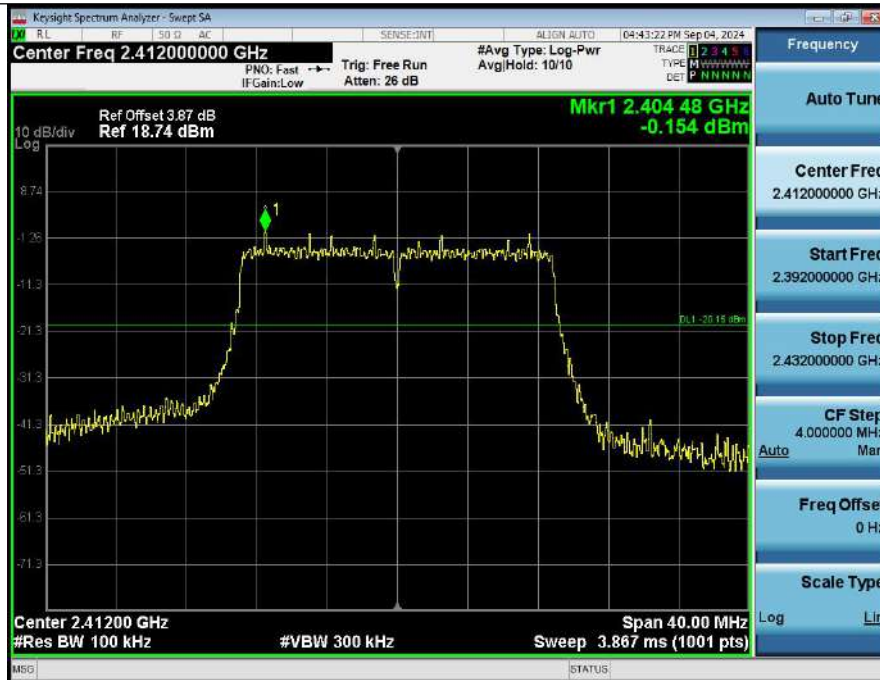
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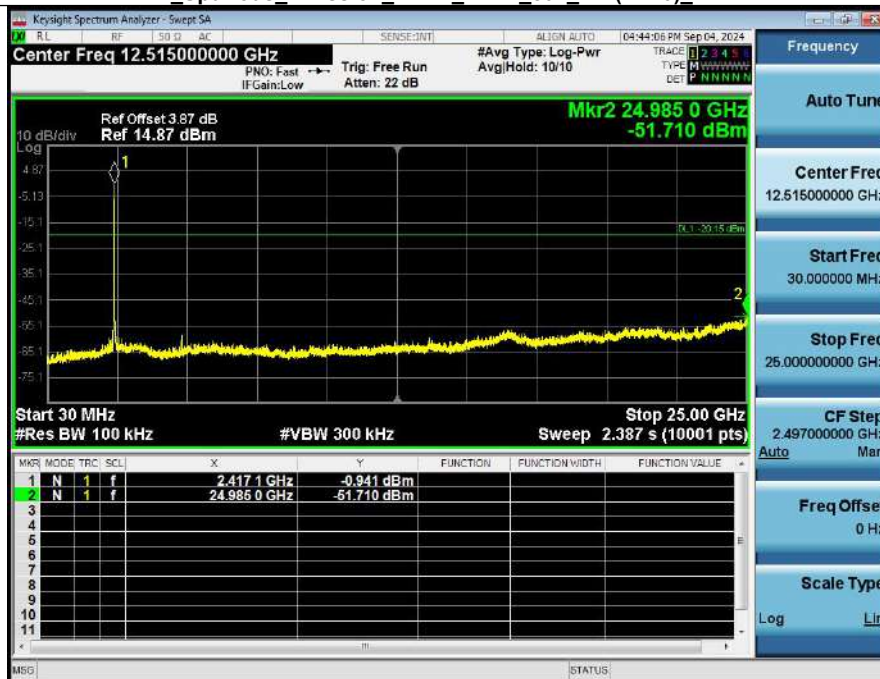
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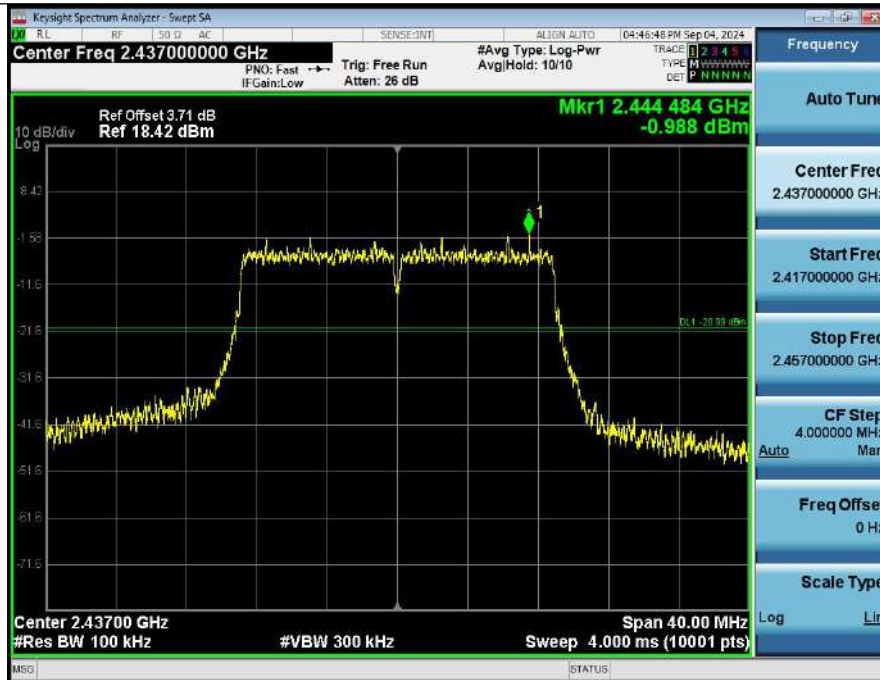
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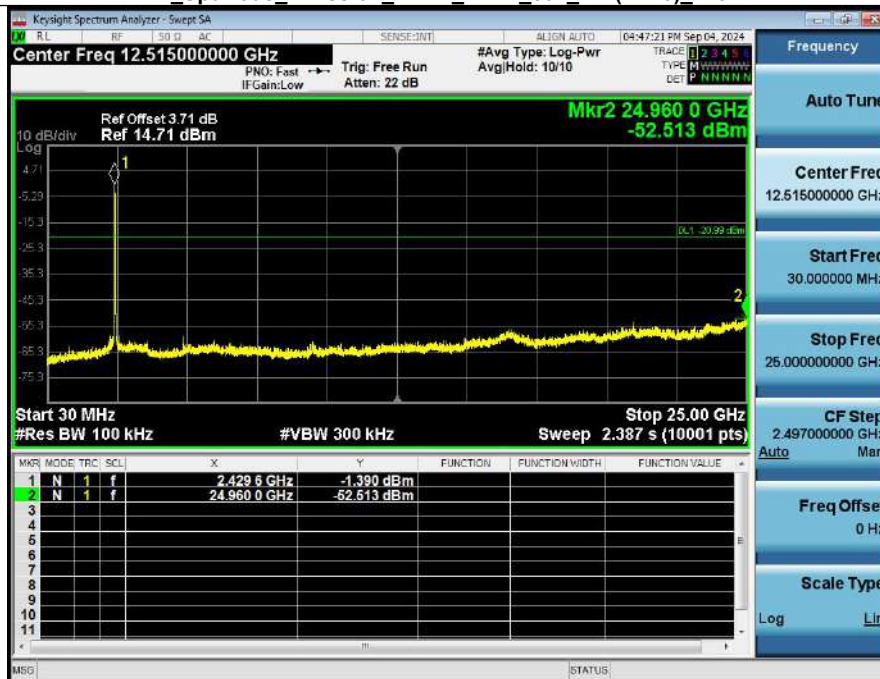
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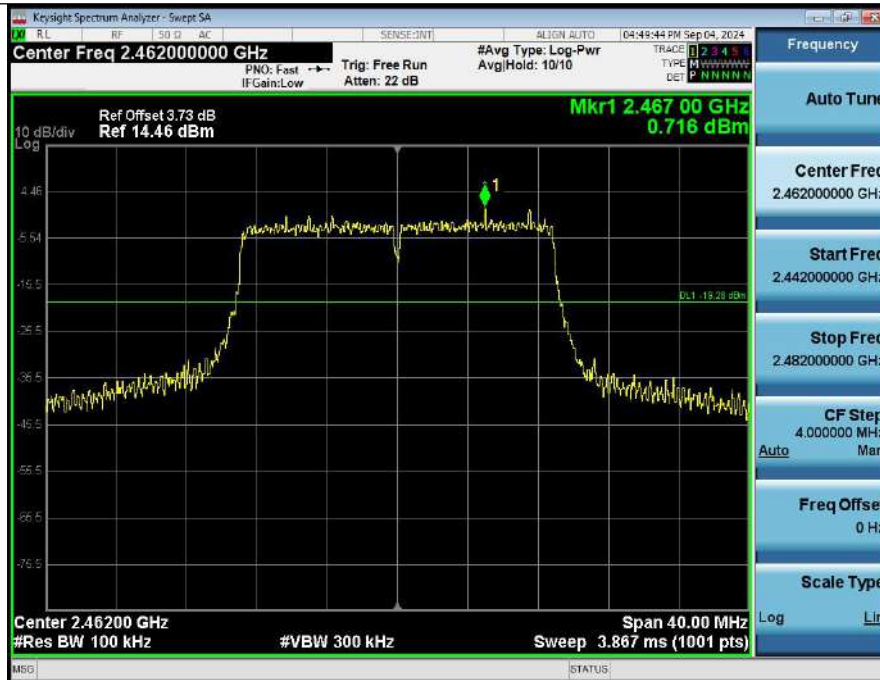
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2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2437



1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2 Spurious Emission_NVNT_ANT1_802_11n(HT20)_2462

