

FCC ID WIFI 2.4
FCC_2.4G_WIFI (Part15.247) Test Data
FCC ID:2A5C6-TPQ-01
Report No.: BKC26010432AE-2

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1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.15	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	16.40	500	Pass
NVNT	ANT1	802.11g	2437.00	16.37	500	Pass
NVNT	ANT1	802.11g	2462.00	16.51	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.33	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.31	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.50	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.05	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.71	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.87	500	Pass



-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



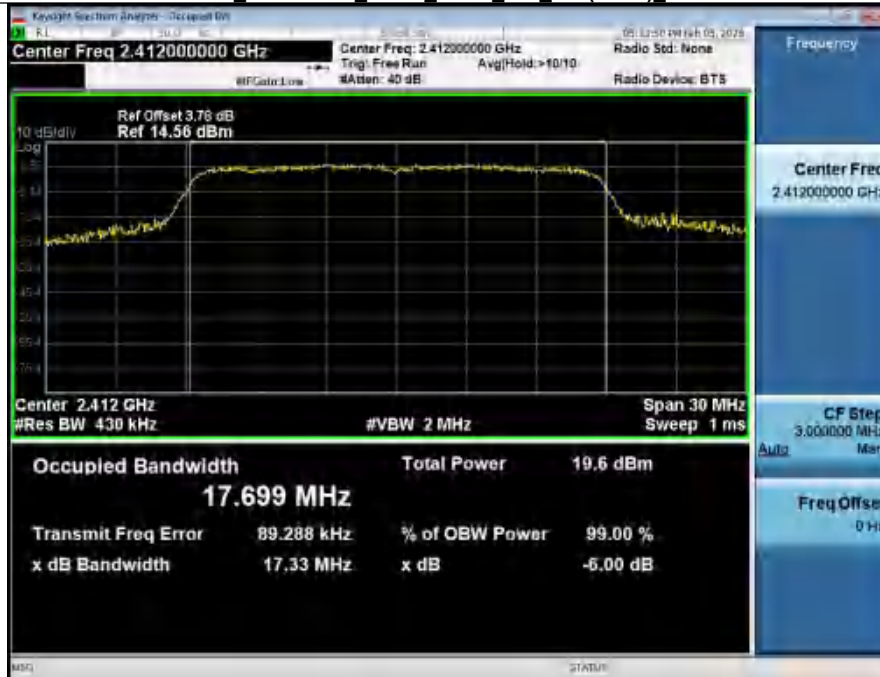
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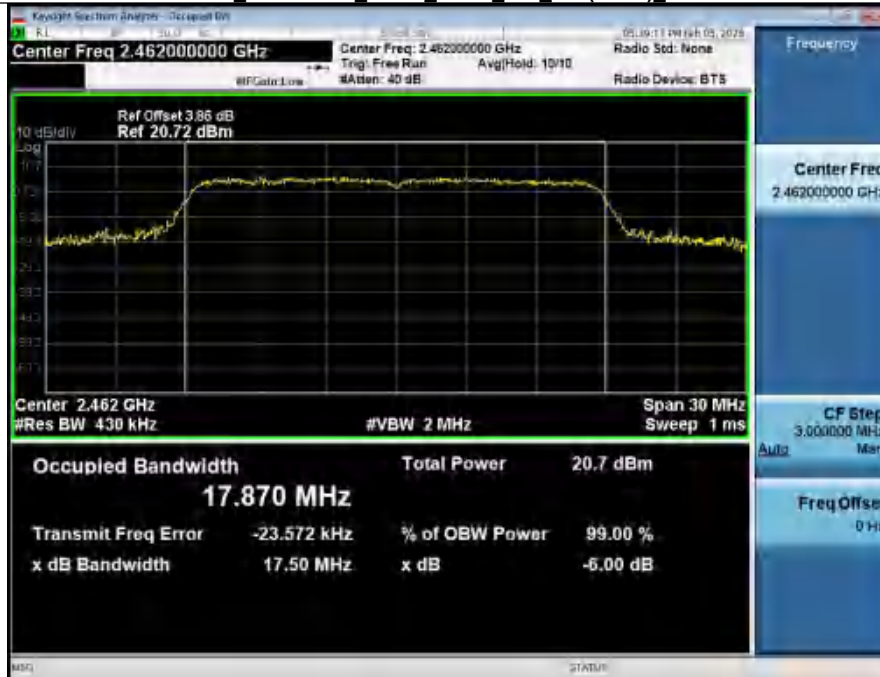
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

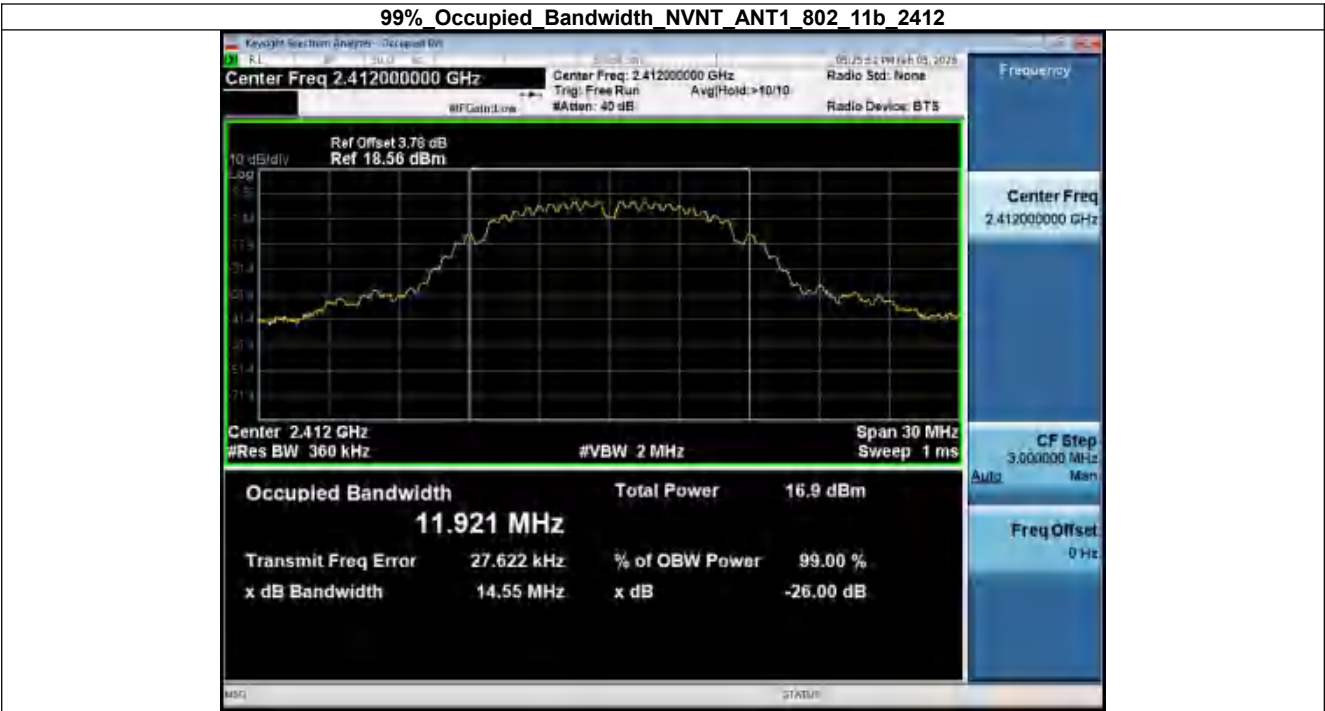


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.921
NVNT	ANT1	802.11b	2437.00	12.111
NVNT	ANT1	802.11b	2462.00	12.024
NVNT	ANT1	802.11g	2412.00	17.176
NVNT	ANT1	802.11g	2437.00	18.335
NVNT	ANT1	802.11g	2462.00	17.551
NVNT	ANT1	802.11n(HT20)	2412.00	17.810
NVNT	ANT1	802.11n(HT20)	2437.00	18.048
NVNT	ANT1	802.11n(HT20)	2462.00	18.068
NVNT	ANT1	802.11n(HT40)	2422.00	36.805
NVNT	ANT1	802.11n(HT40)	2437.00	36.373
NVNT	ANT1	802.11n(HT40)	2452.00	36.544



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



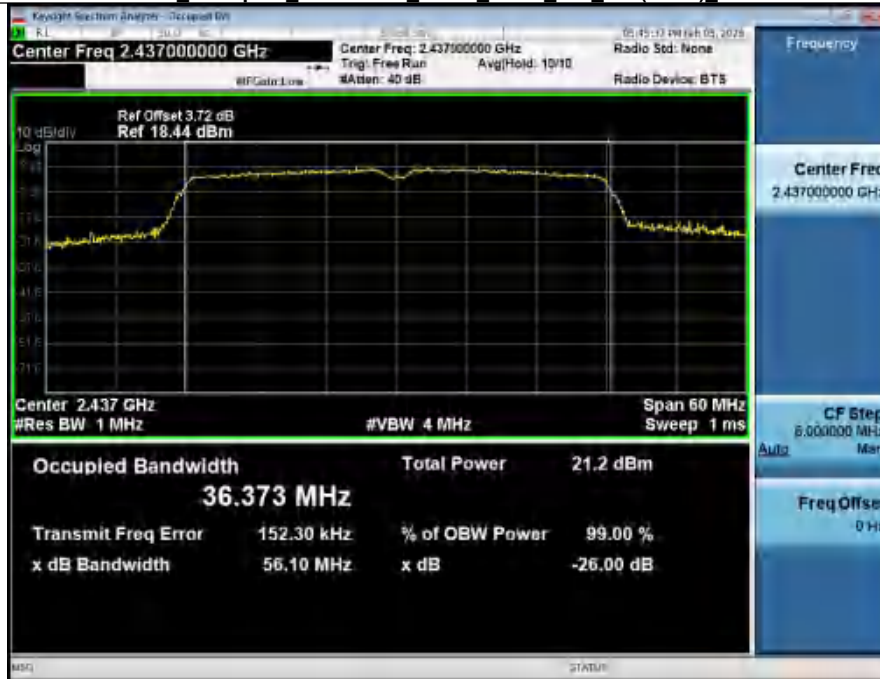
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99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

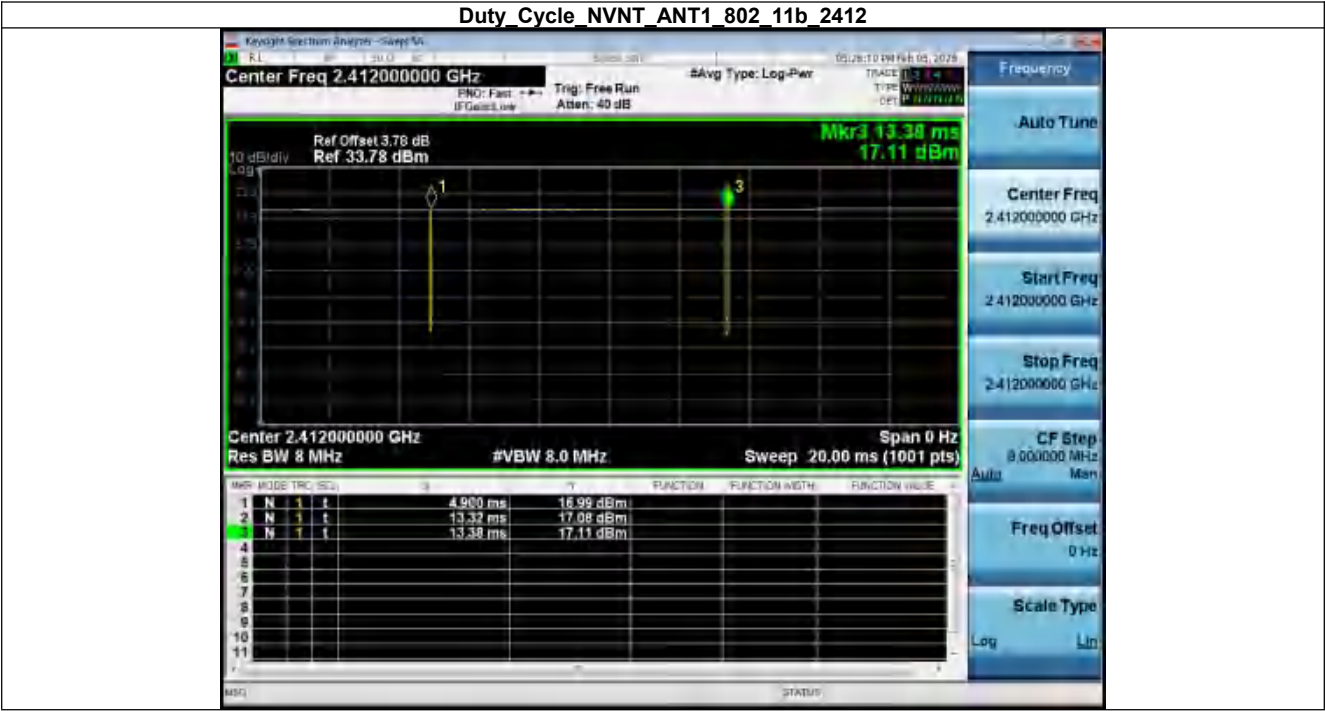


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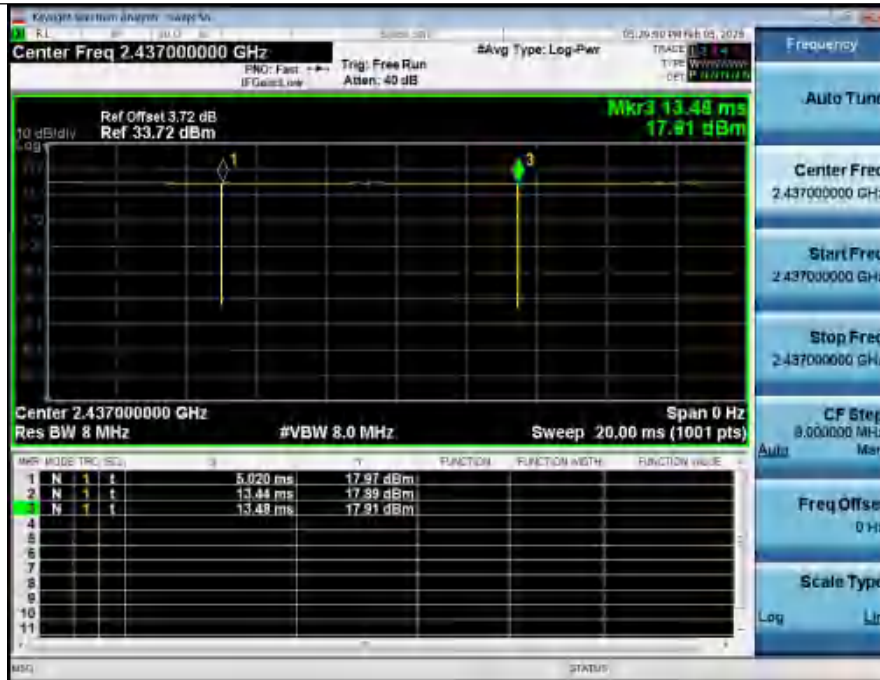


3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.53	0.00
NVNT	ANT1	802.11b	2437.00	99.76	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	98.61	0.00
NVNT	ANT1	802.11g	2437.00	98.61	0.00
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	98.36	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	98.36	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	96.88	0.14



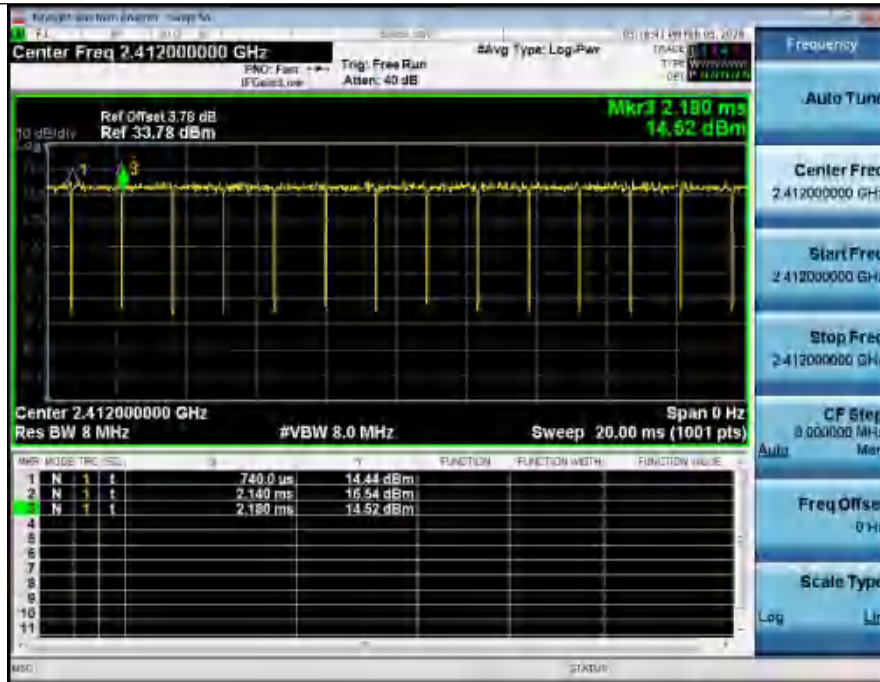
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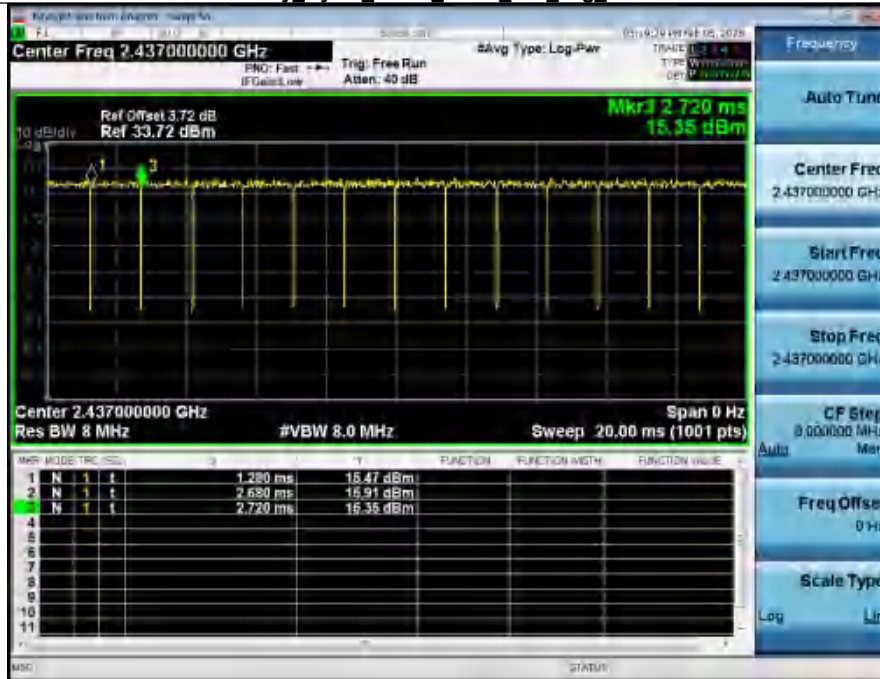
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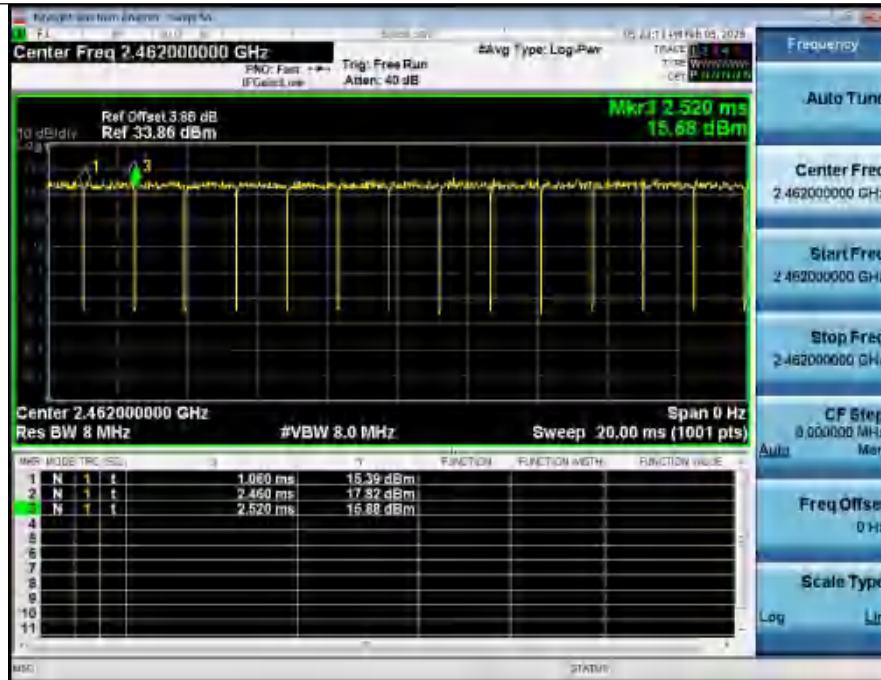
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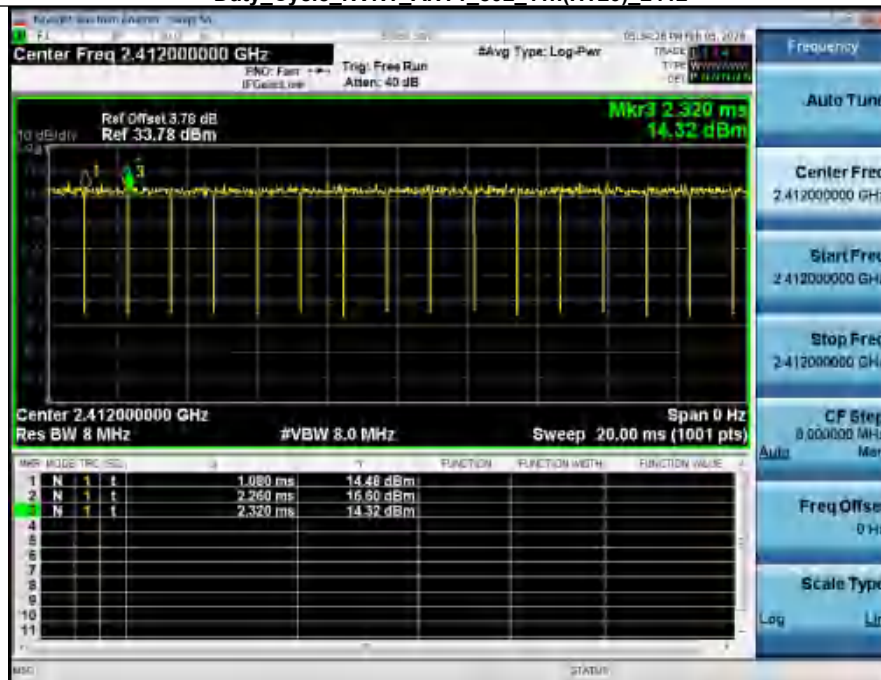
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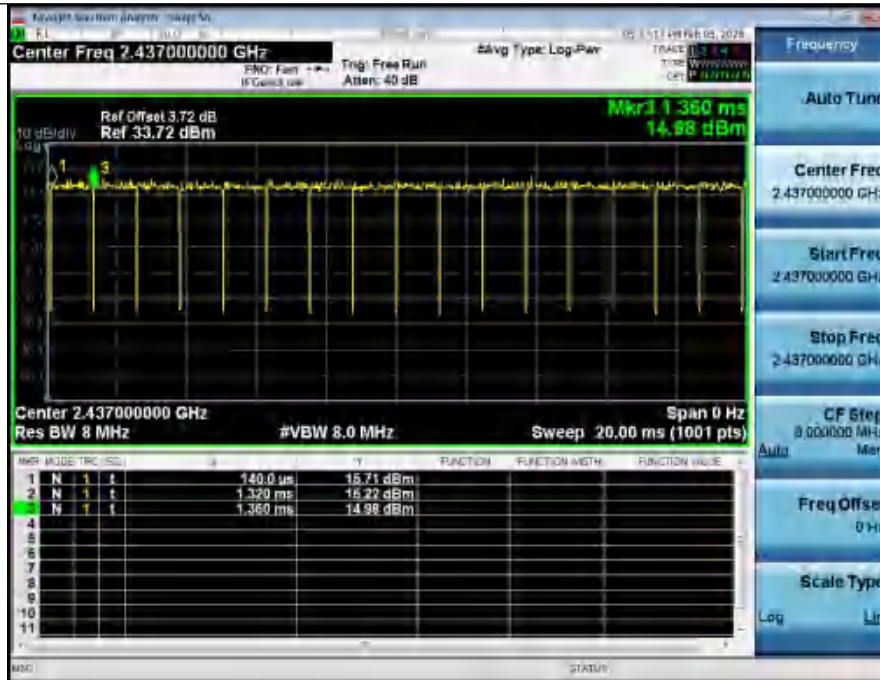
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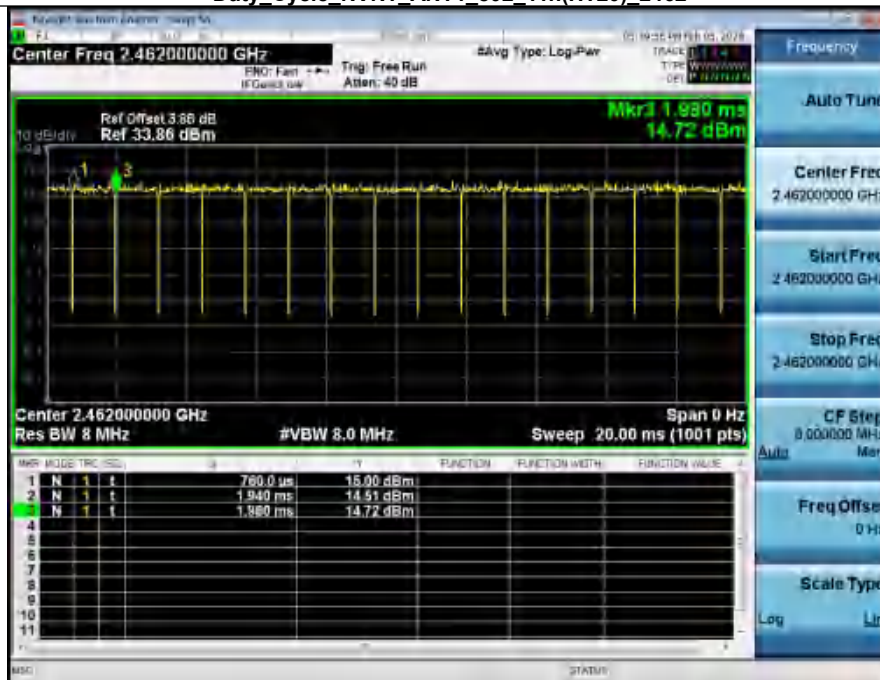
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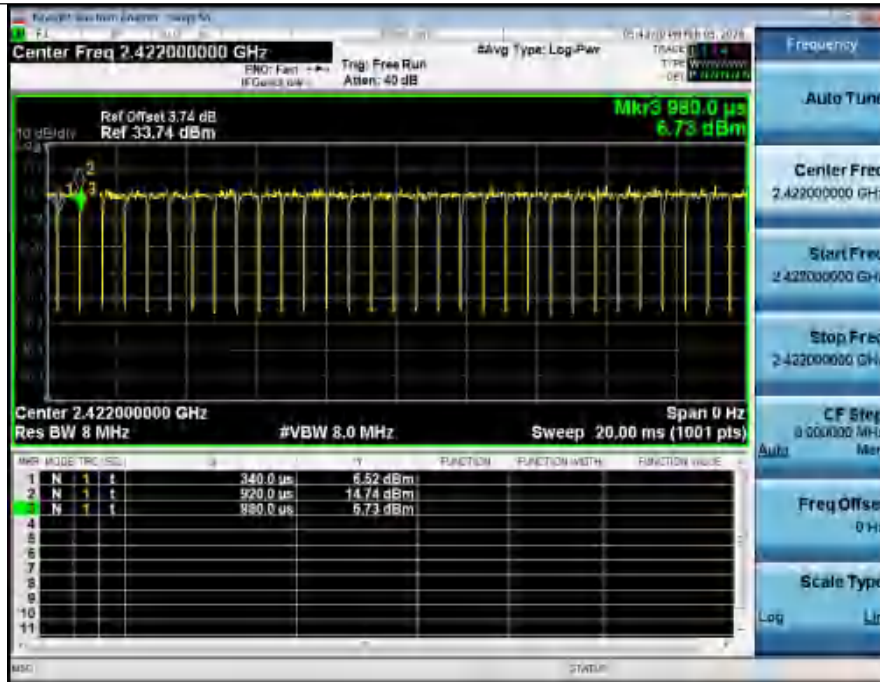
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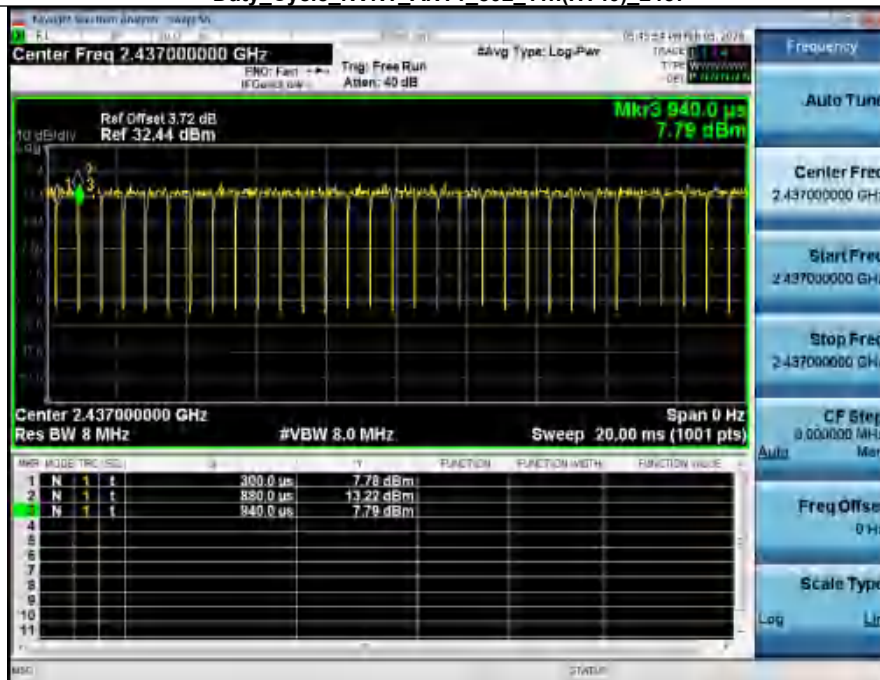
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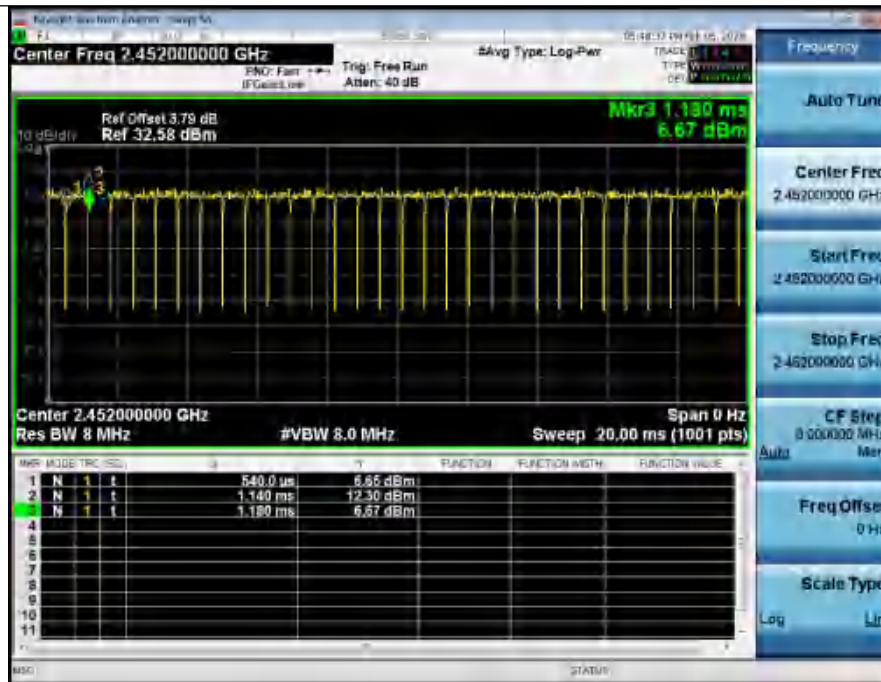
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



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)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	4.01	4.01	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	4.94	4.94	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	4.79	4.79	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	7.03	7.03	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	7.92	7.92	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	8.03	8.03	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	7.32	7.32	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	8.24	8.24	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	8.29	8.29	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	8.28	8.28	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	8.23	8.23	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	7.94	7.94	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD(dBm/30kHz)	Duty factor(dB)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.28	N/A	-10.00	-8.72	8	Pass
NVNT	ANT1	802.11b	2437.00	2.06	N/A	-10.00	-7.94	8	Pass
NVNT	ANT1	802.11b	2462.00	2.32	N/A	-10.00	-7.68	8	Pass
NVNT	ANT1	802.11g	2412.00	-2.52	N/A	-10.00	-12.52	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.65	N/A	-10.00	-11.64	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.76	N/A	-10.00	-11.76	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-3.90	N/A	-10.00	-13.90	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-2.98	N/A	-10.00	-12.98	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-3.11	N/A	-10.00	-13.11	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-6.25	N/A	-10.00	-16.25	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-6.09	N/A	-10.00	-16.09	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-5.93	N/A	-10.00	-15.93	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



Power_Spectral_Density_NVNT_ANT1_802_11g_2462



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



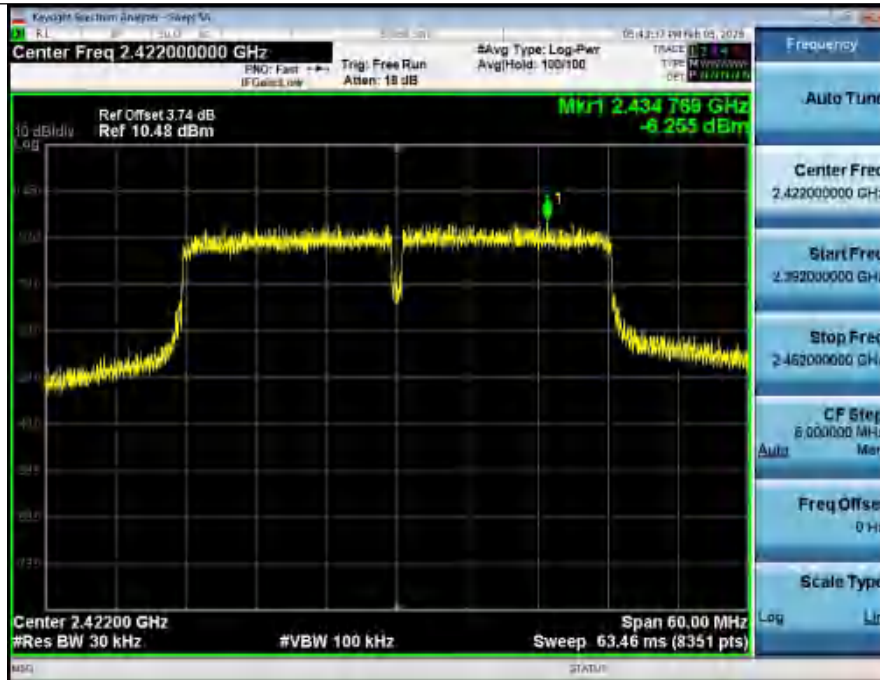
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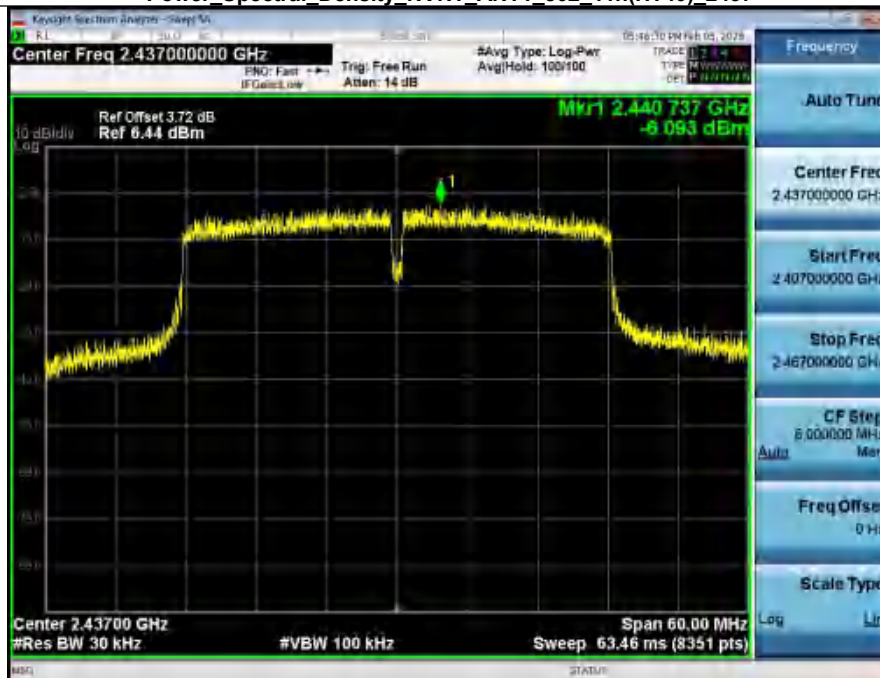
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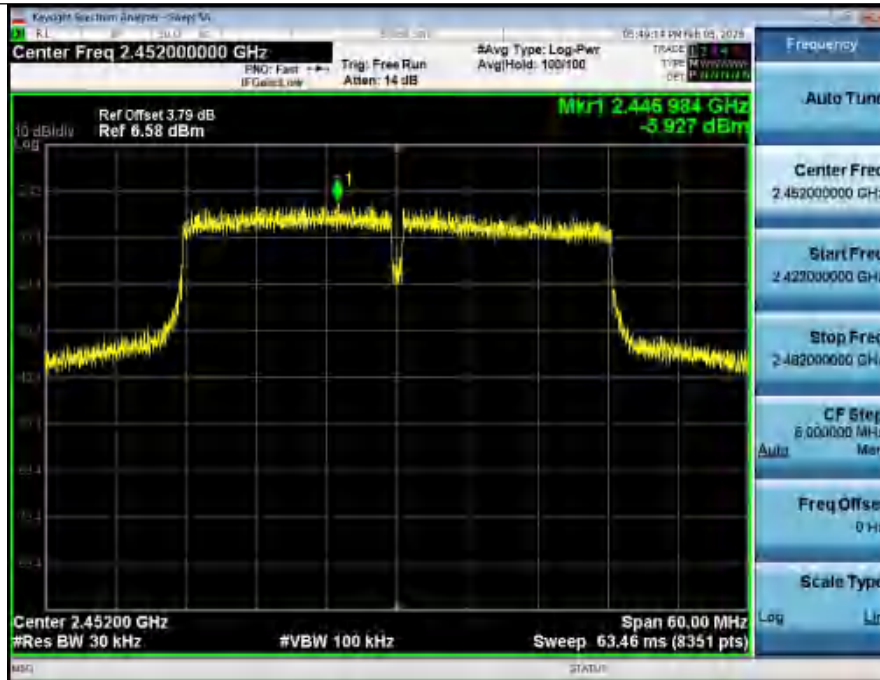
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Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2437



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	5.079	-38.649	-14.921	Pass
NVNT	ANT1	802.11b	2462.00	2488.576	5.410	-53.577	-14.590	Pass
NVNT	ANT1	802.11g	2412.00	2399.488	1.047	-26.866	-18.953	Pass
NVNT	ANT1	802.11g	2462.00	2483.584	2.323	-39.696	-17.677	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	0.527	-30.346	-19.473	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.496	1.437	-38.846	-18.563	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.628	-1.020	-29.756	-21.020	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.952	-1.206	-35.890	-21.206	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



2 Bandedge_NVNT_ANT1_802_11b_2412



1 Reference_Level_NVNT_ANT1_802_11b_2462



2_Bandedge_NVNT_ANT1_802_11b_2462



1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



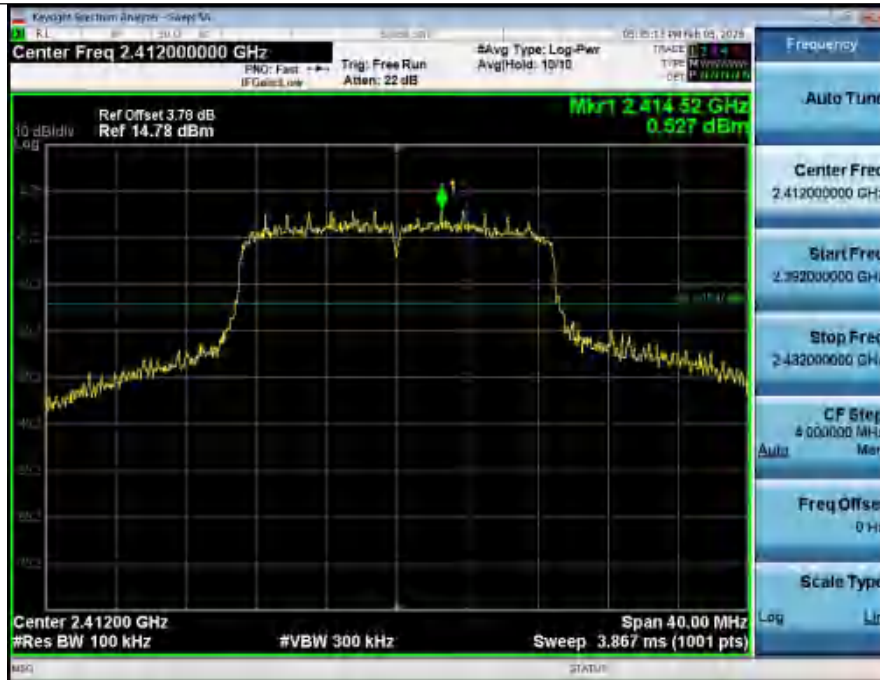
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2_Bandedge_NVNT_ANT1_802_11g_2462



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_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24630.444	5.079	-46.295	-14.921	Pass
NVNT	ANT1	802.11b	2437.00	24458.151	5.889	-44.303	-14.111	Pass
NVNT	ANT1	802.11b	2462.00	24850.180	5.410	-40.517	-14.590	Pass
NVNT	ANT1	802.11g	2412.00	24965.042	1.047	-49.059	-18.953	Pass
NVNT	ANT1	802.11g	2437.00	24950.060	2.330	-43.808	-17.670	Pass
NVNT	ANT1	802.11g	2462.00	911.441	2.323	-31.797	-17.677	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24995.006	0.527	-50.066	-19.473	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24770.276	1.340	-43.420	-18.660	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24852.677	1.437	-43.468	-18.563	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24972.533	-1.020	-51.980	-21.020	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24987.515	-1.140	-46.238	-21.140	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24900.120	-1.206	-51.482	-21.206	Pass

1_Reference_Level_NVNT_ANT1_802_11b_2412



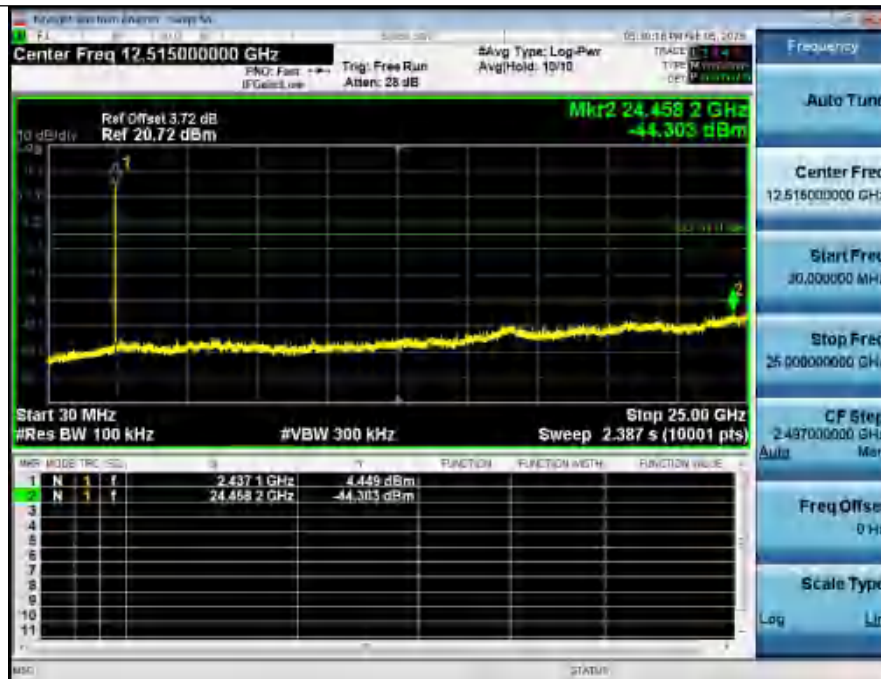
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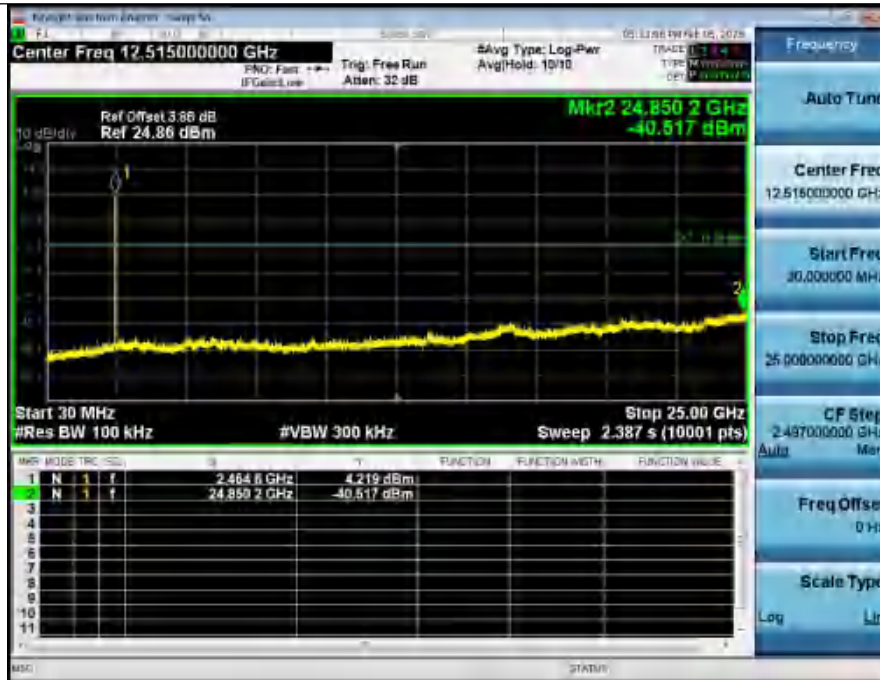
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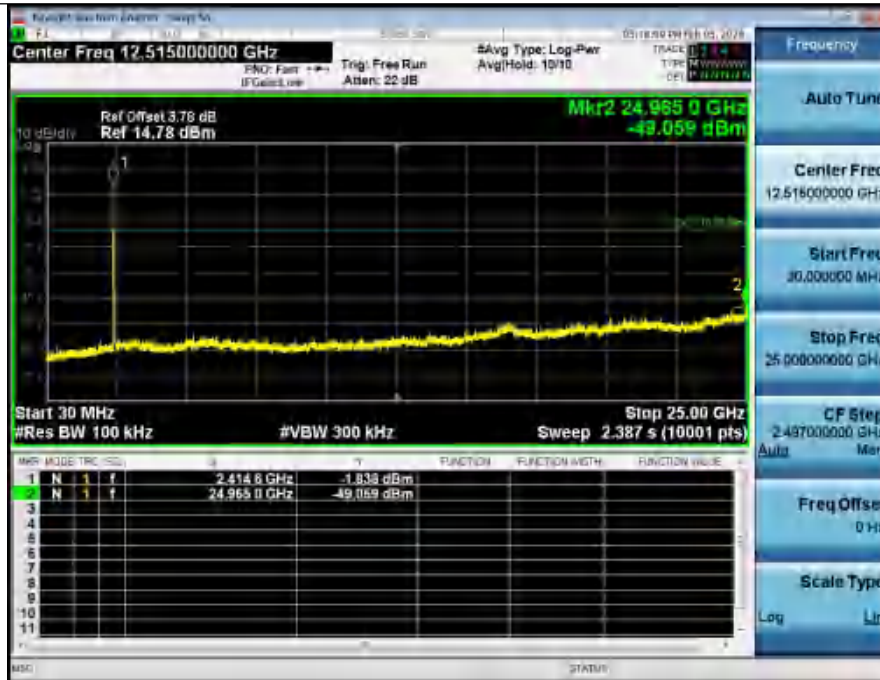
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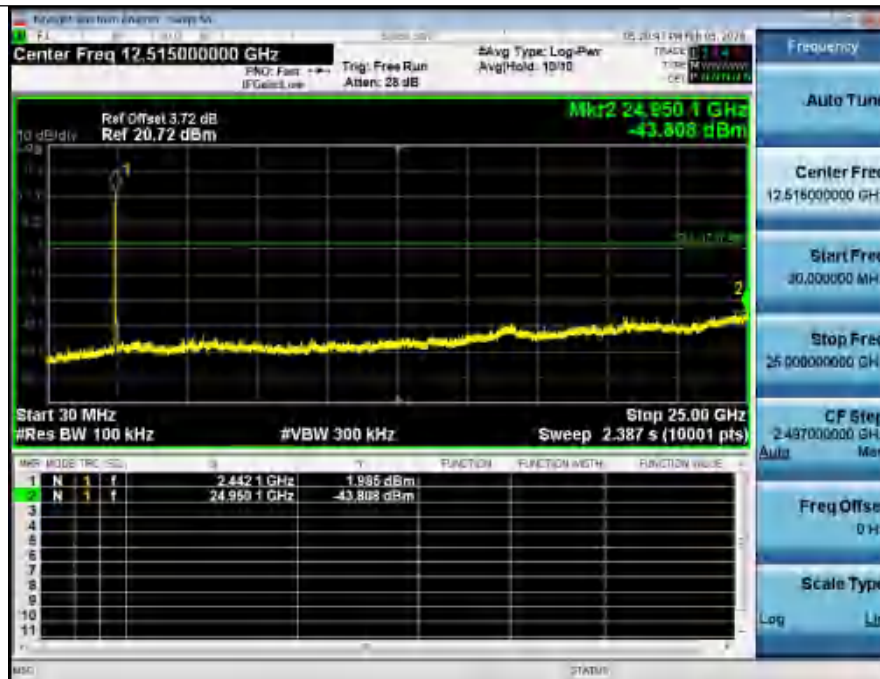
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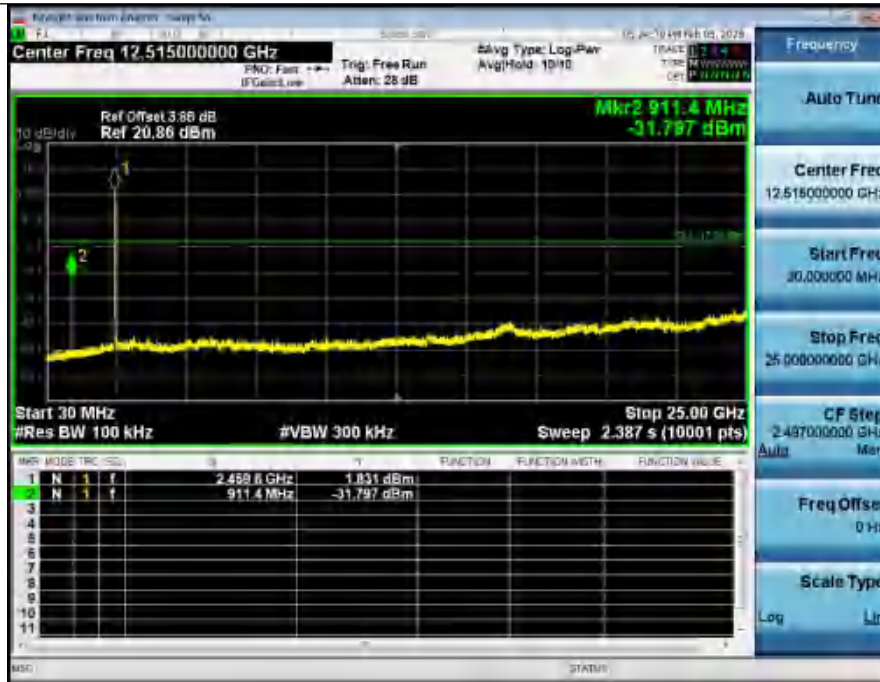
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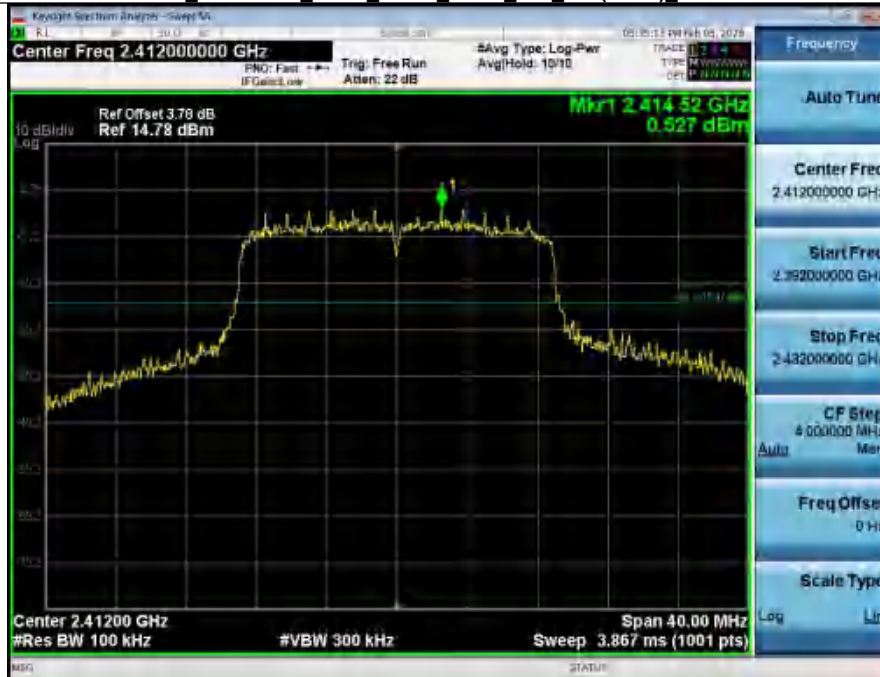
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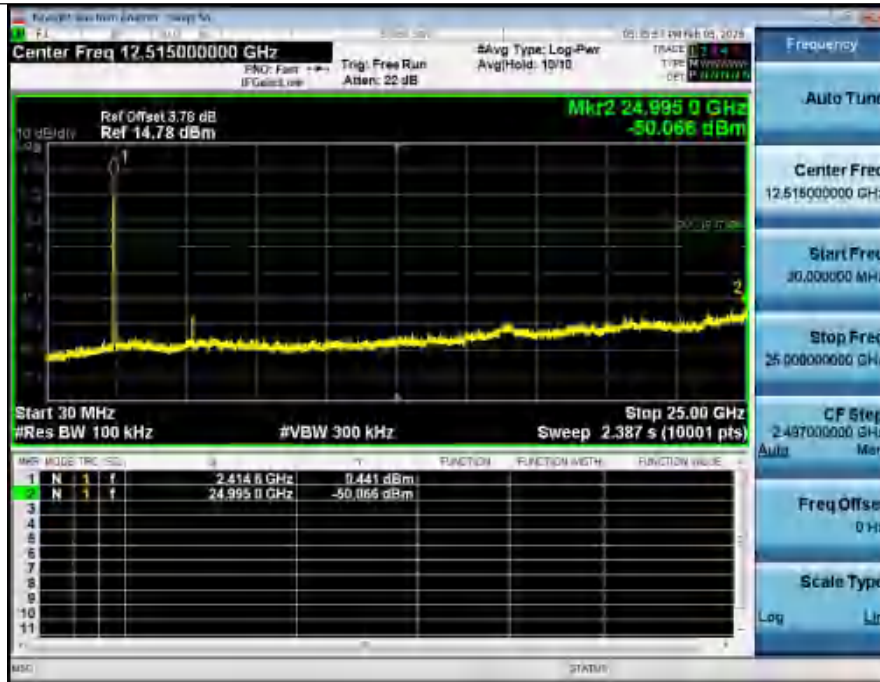
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1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



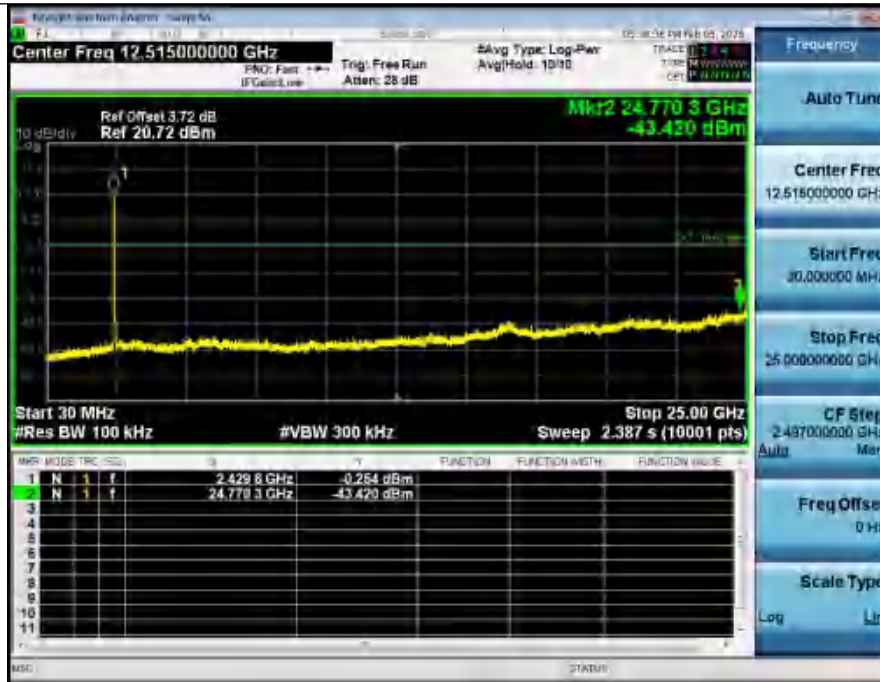
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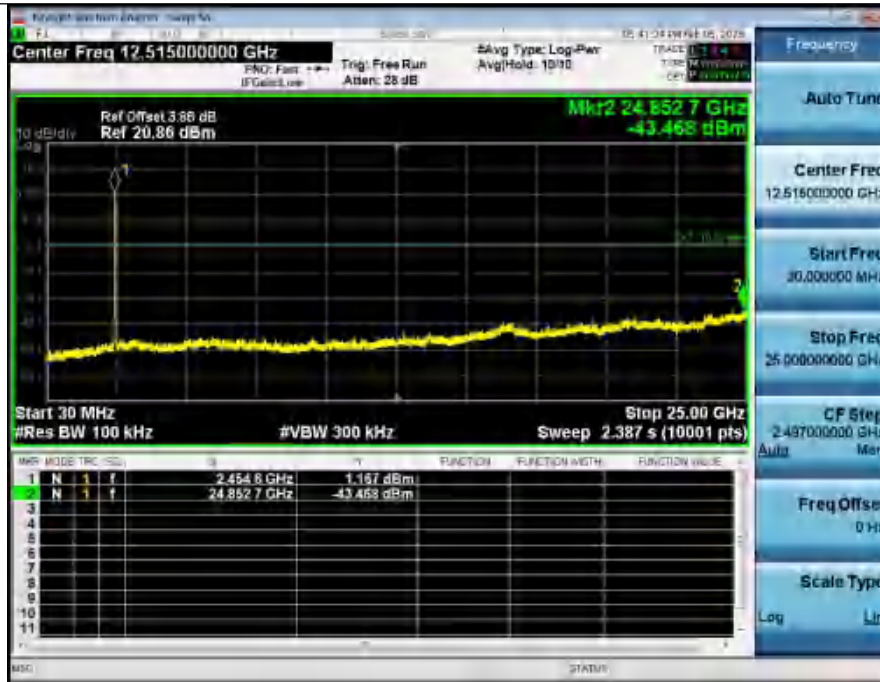
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1 Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2 Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



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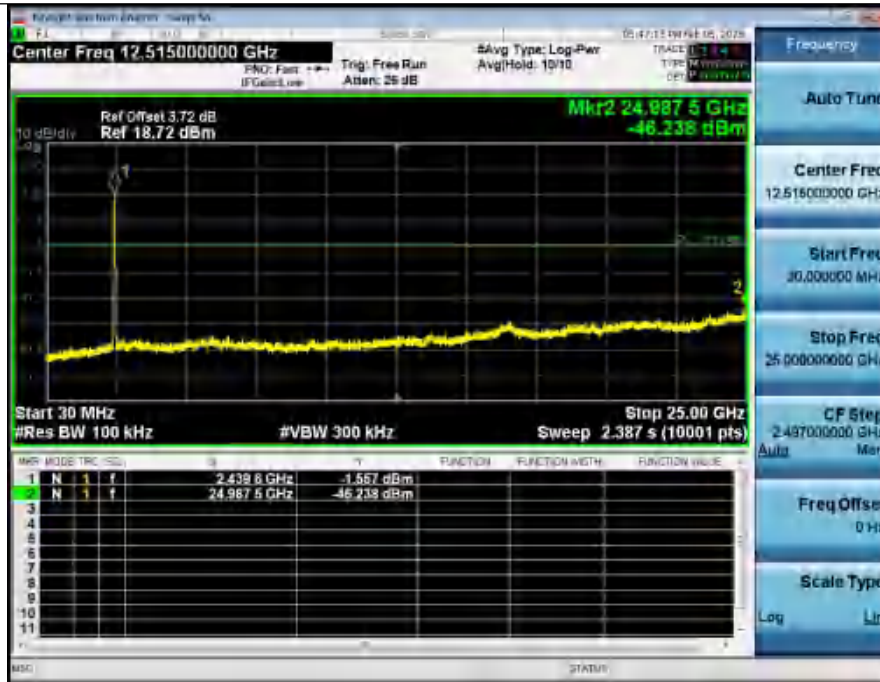
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2 Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2437



1 Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



2 Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2452

