

FCC ID:2BQ9Y-D329
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	9.18	500	Pass
NVNT	ANT1	802.11b	2437.00	9.14	500	Pass
NVNT	ANT1	802.11b	2462.00	9.21	500	Pass
NVNT	ANT1	802.11g	2412.00	16.37	500	Pass
NVNT	ANT1	802.11g	2437.00	16.46	500	Pass
NVNT	ANT1	802.11g	2462.00	16.40	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.39	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.39	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.41	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.36	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.17	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.81	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

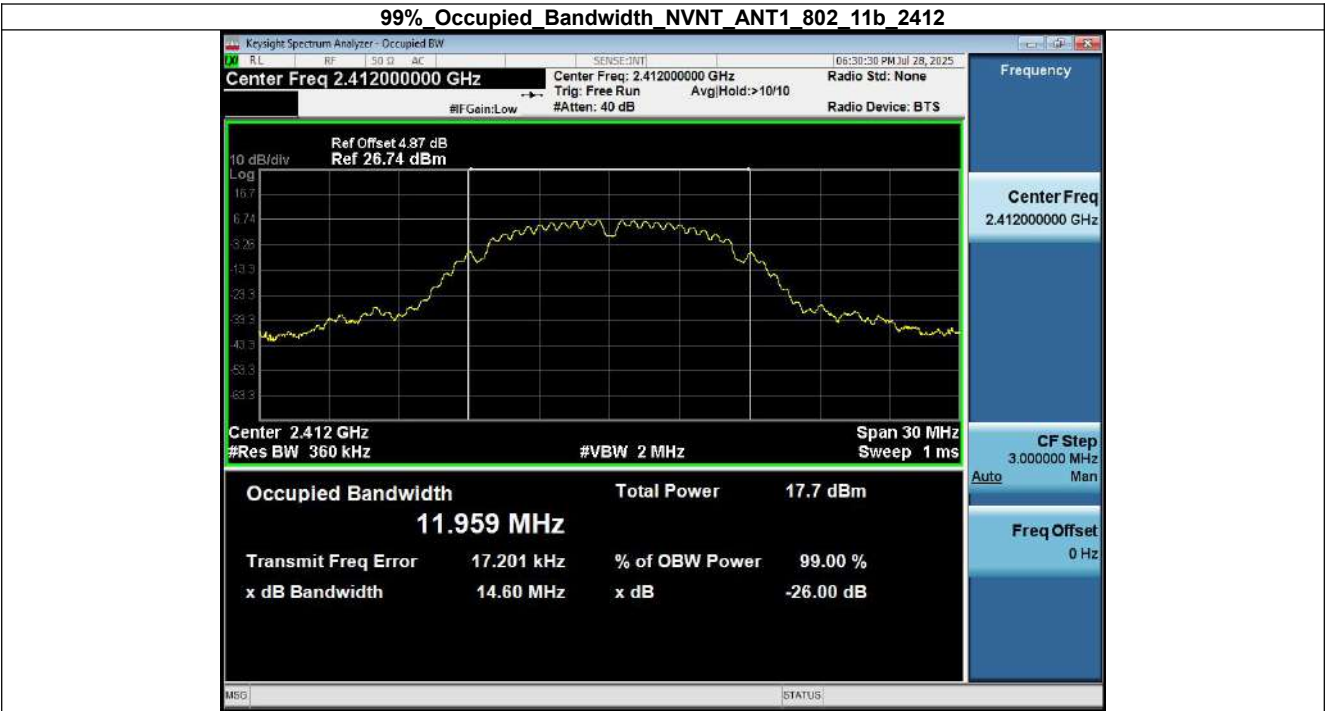


-6dB Bandwidth NVNT_ANT1_802_11n(HT40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.959
NVNT	ANT1	802.11b	2437.00	12.077
NVNT	ANT1	802.11b	2462.00	12.040
NVNT	ANT1	802.11g	2412.00	17.185
NVNT	ANT1	802.11g	2437.00	17.239
NVNT	ANT1	802.11g	2462.00	17.114
NVNT	ANT1	802.11n(HT20)	2412.00	17.842
NVNT	ANT1	802.11n(HT20)	2437.00	17.888
NVNT	ANT1	802.11n(HT20)	2462.00	17.881
NVNT	ANT1	802.11n(HT40)	2422.00	36.524
NVNT	ANT1	802.11n(HT40)	2437.00	36.502
NVNT	ANT1	802.11n(HT40)	2452.00	36.510



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



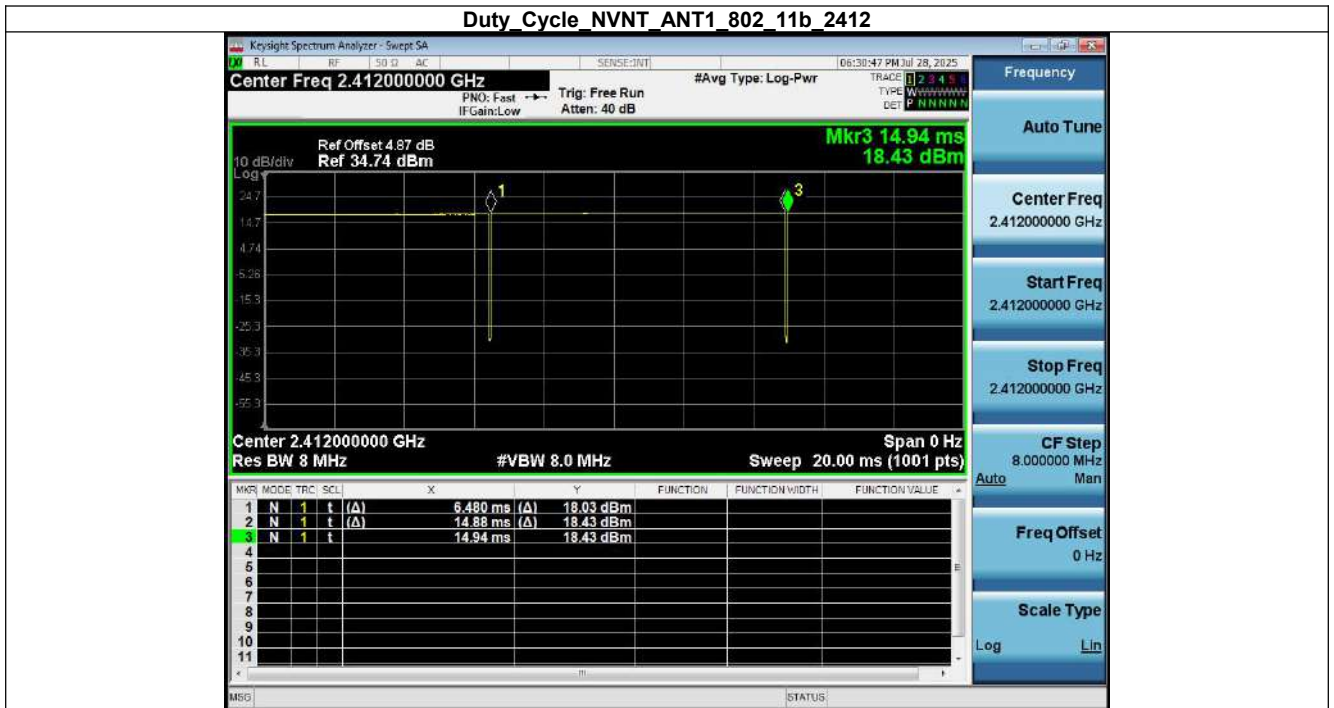
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2437





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	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



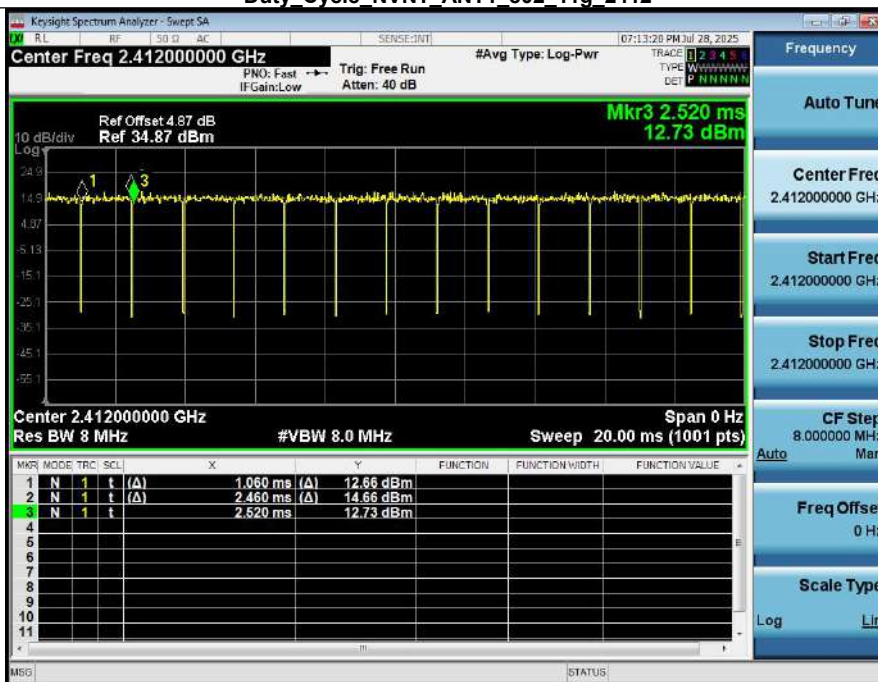
Duty Cycle NVNT ANT1_802_11b_2437



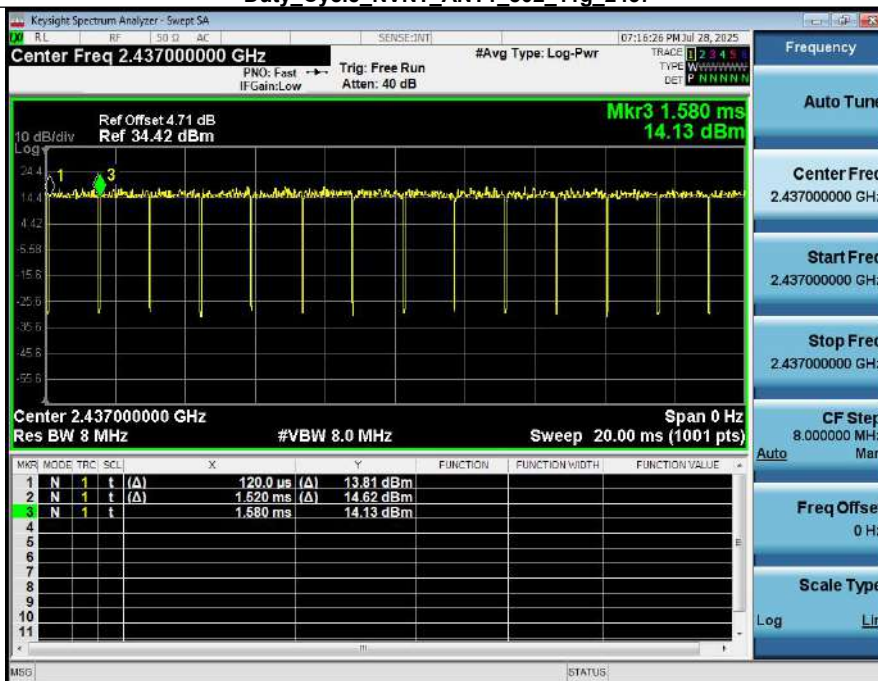
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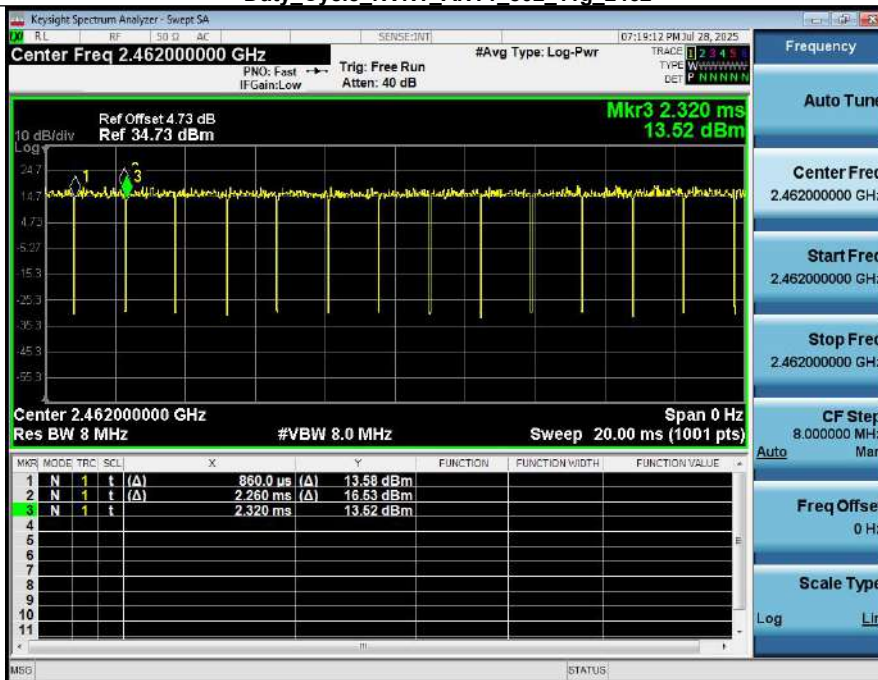
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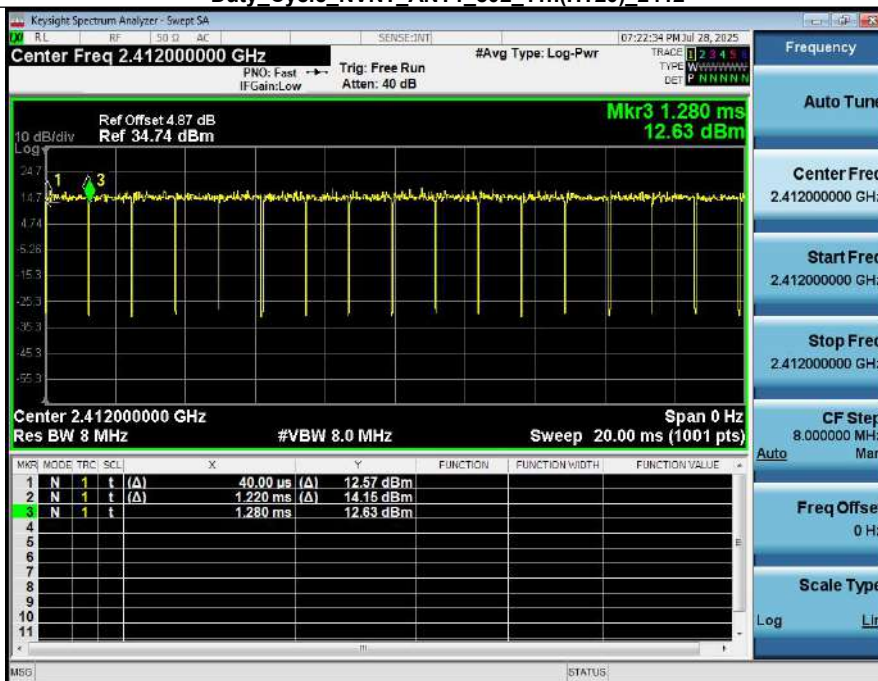
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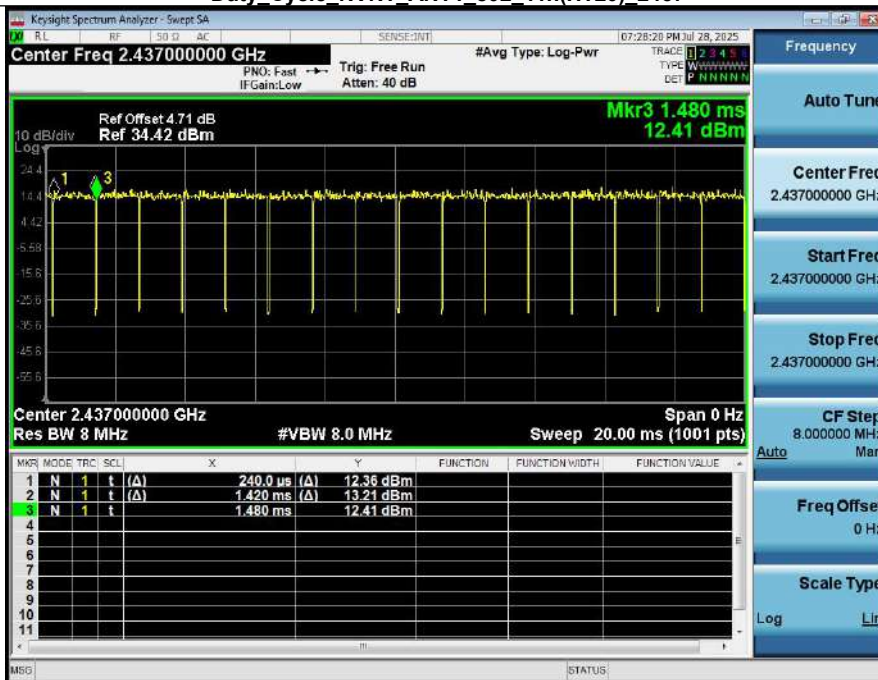
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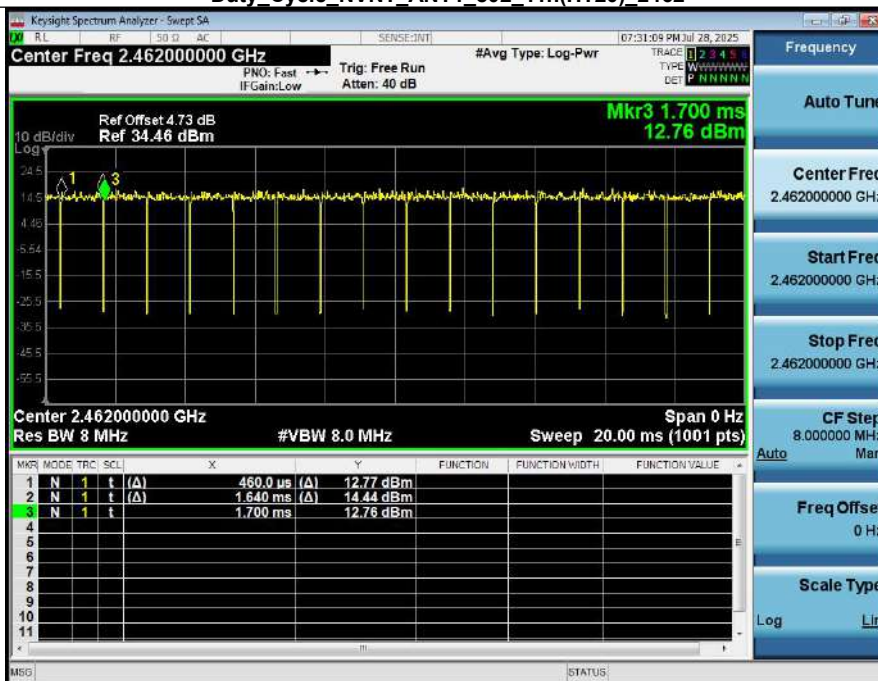
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



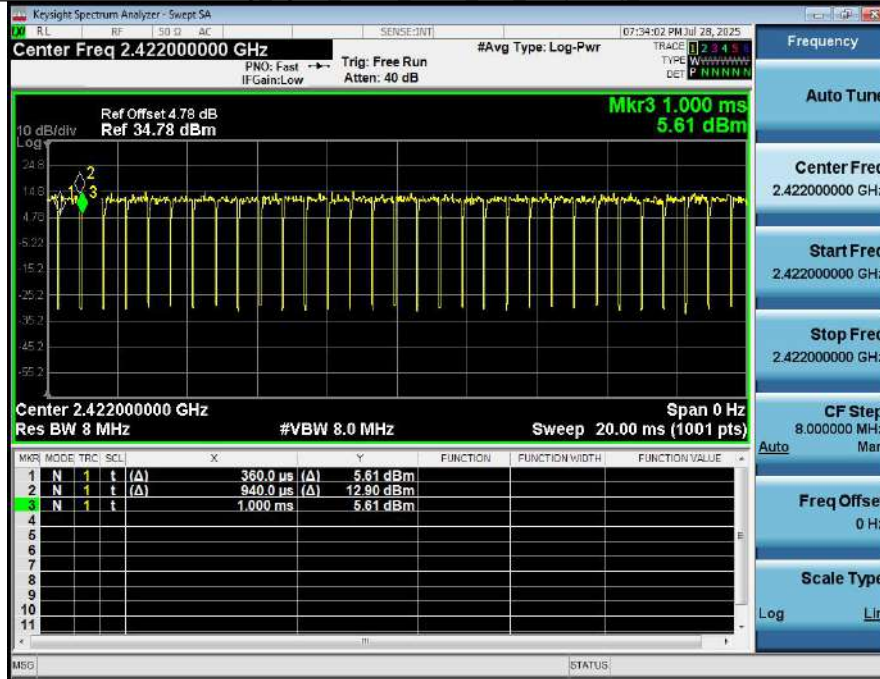
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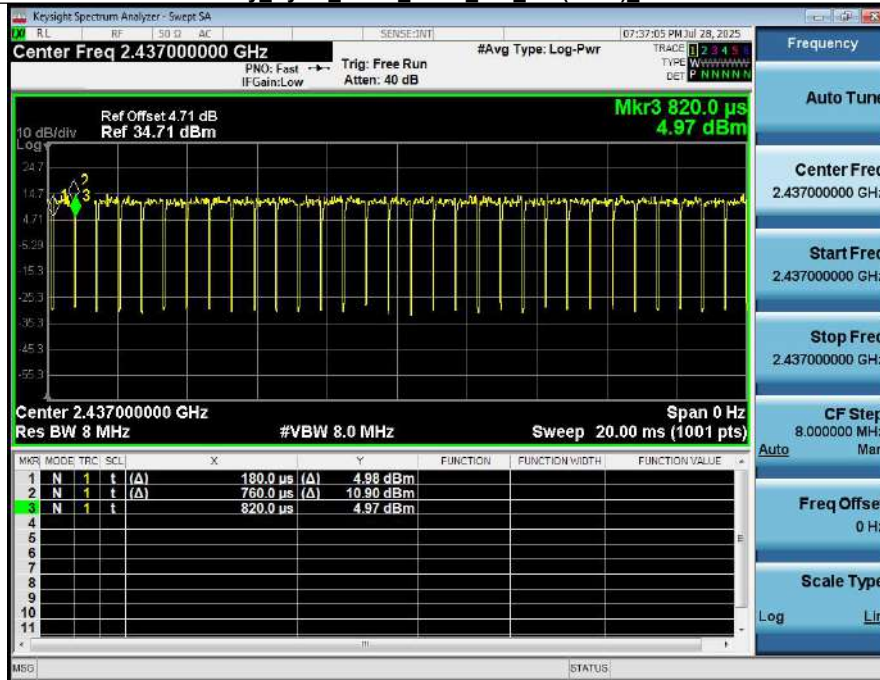
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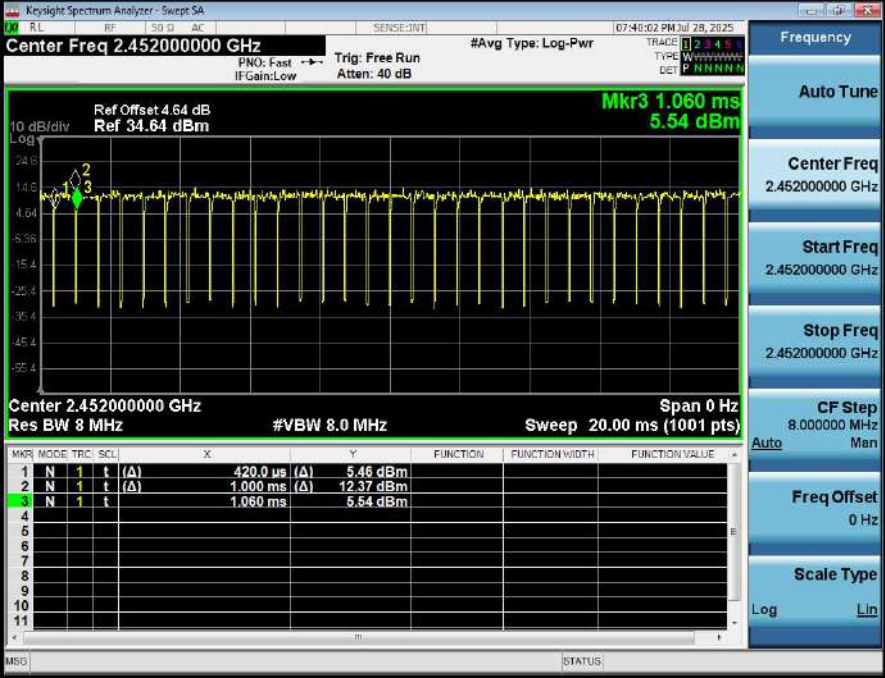
Duty Cycle NVNT ANT1_802_11n(HT40)_2422



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	16.87	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	17.72	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	17.31	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	17.38	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	18.31	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	18.43	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	18.45	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	18.24	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	18.47	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	18.40	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	18.37	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	18.13	30	Pass

5. Power Spectral Density

Condition	Antenna	Modulation	Frequenc y (MHz)	SA_PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	3.41	-10.00	-6.59	8	Pass
NVNT	ANT1	802.11b	2437.00	2.80	-10.00	-7.20	8	Pass
NVNT	ANT1	802.11b	2462.00	2.95	-10.00	-7.05	8	Pass
NVNT	ANT1	802.11g	2412.00	-3.78	-10.00	-13.78	8	Pass
NVNT	ANT1	802.11g	2437.00	-4.04	-10.00	-14.04	8	Pass
NVNT	ANT1	802.11g	2462.00	-3.86	-10.00	-13.86	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-4.59	-10.00	-14.59	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-5.32	-10.00	-15.32	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-4.70	-10.00	-14.70	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-8.07	-10.00	-18.07	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-8.31	-10.00	-18.31	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-7.85	-10.00	-17.85	8	Pass



Power Spectral Density NVNT_ANT1_802_11b_2437



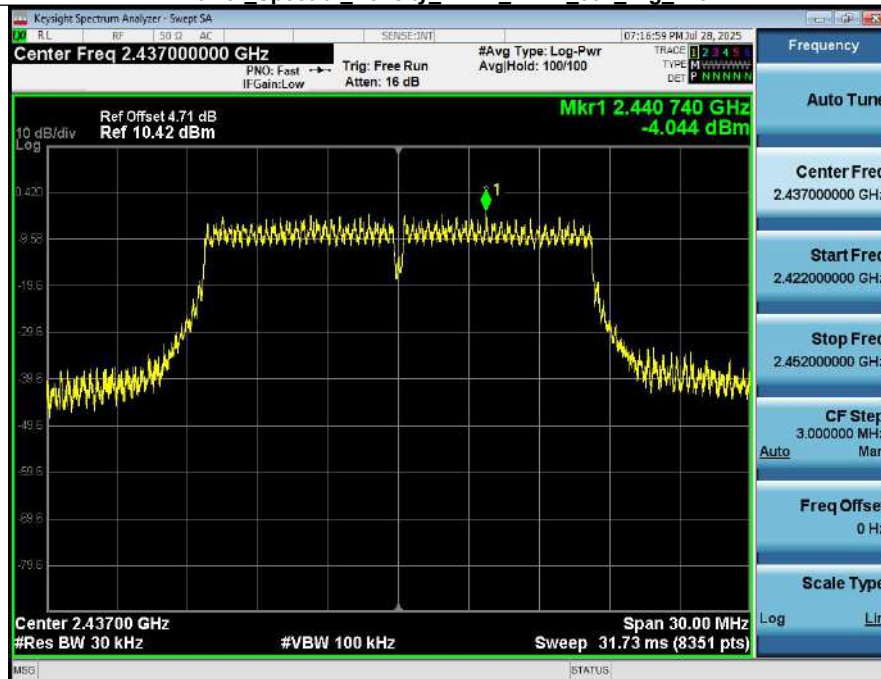
Power Spectral Density NVNT_ANT1_802_11b_2462



Power Spectral Density NVNT_ANT1_802_11g_2412



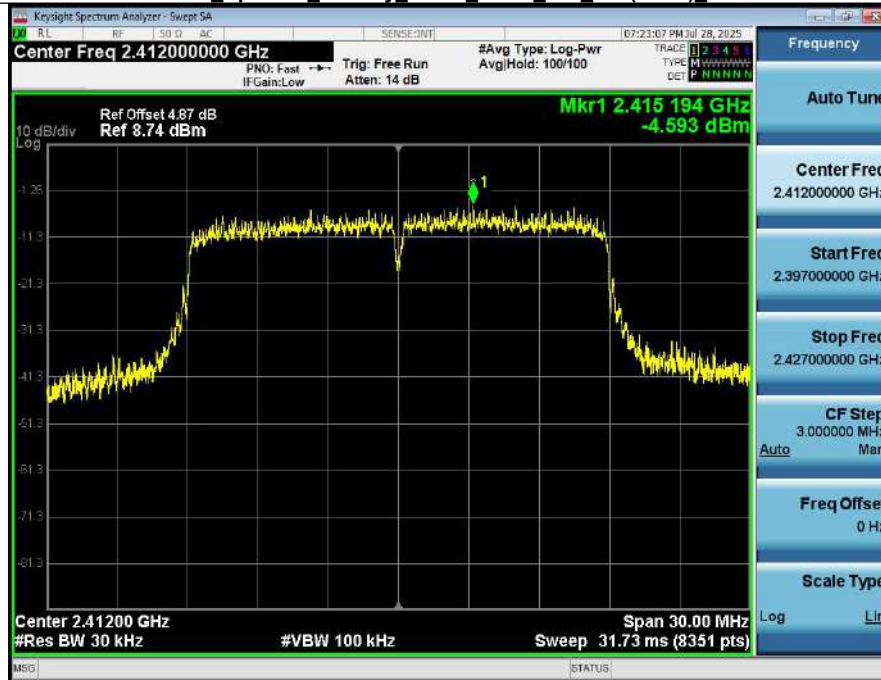
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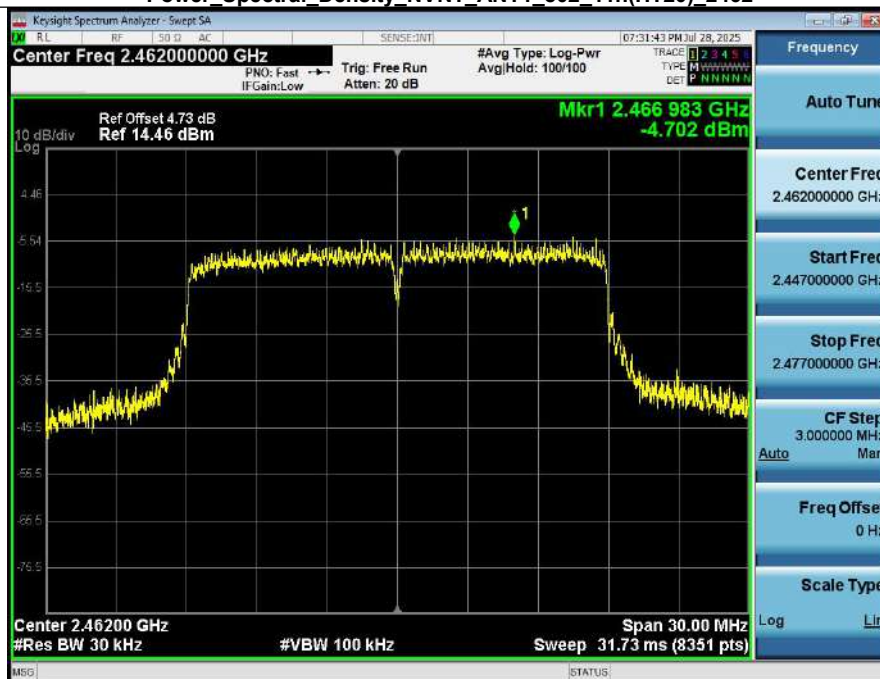
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2412



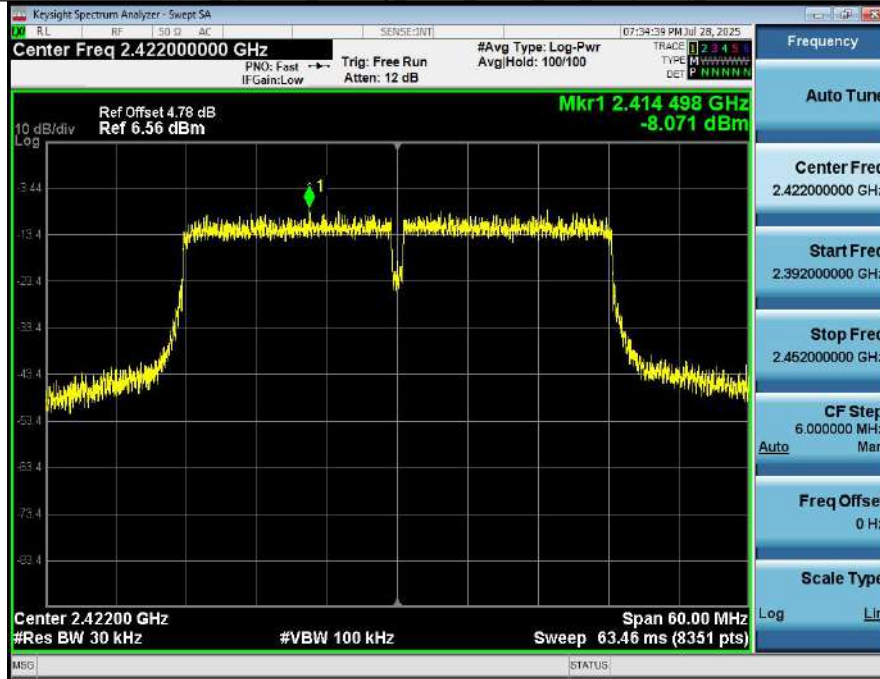
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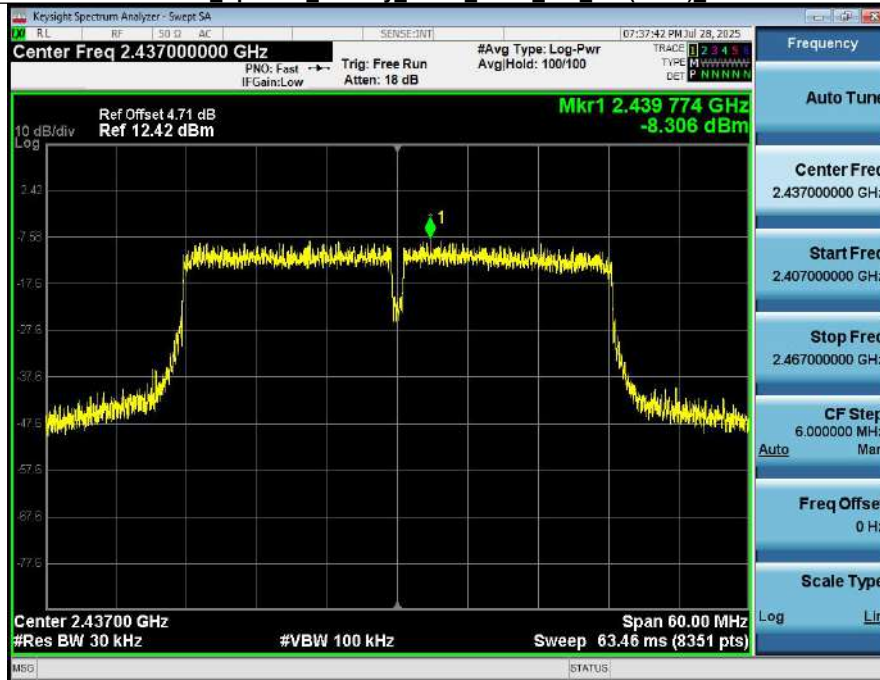
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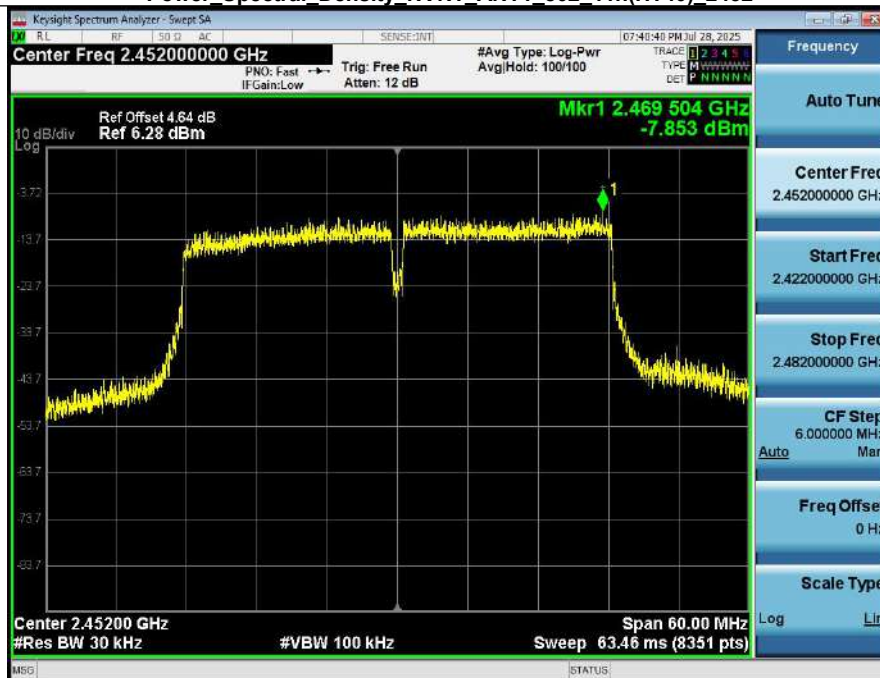
Power Spectral Density NVNT ANT1_802_11n(HT40)_2422



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	5.972	-35.728	-14.028	Pass
NVNT	ANT1	802.11b	2462.00	2484.064	6.341	-53.733	-13.659	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-0.110	-32.024	-20.110	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	0.878	-41.242	-19.122	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2398.256	-0.186	-32.207	-20.186	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.584	-0.047	-40.819	-20.047	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.760	-3.369	-34.470	-23.369	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.612	-3.302	-37.046	-23.302	Pass



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



1 Reference Level NVNT_ANT1_802_11g_2462



2 Bandedge NVNT_ANT1_802_11g_2462



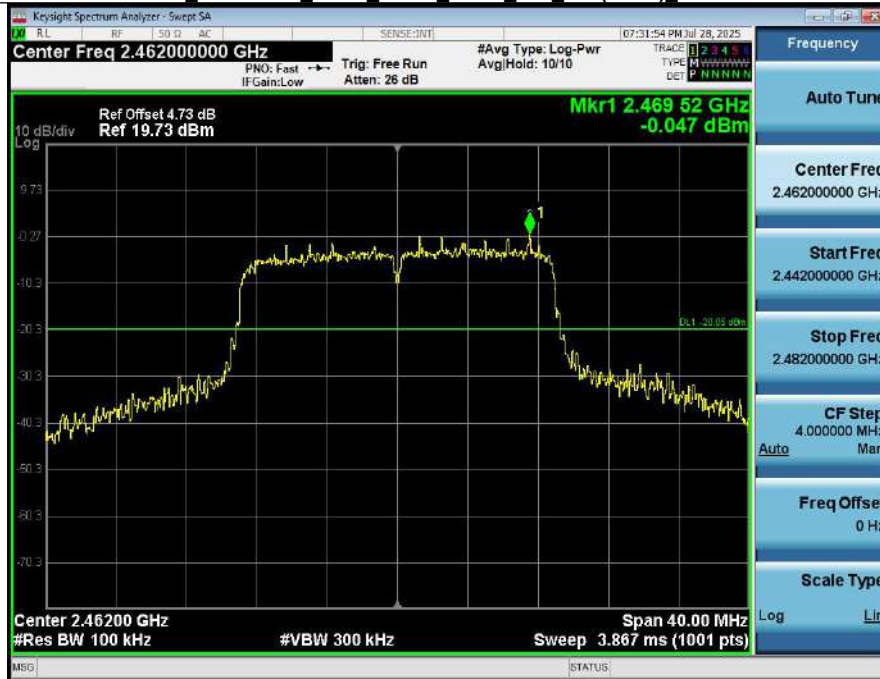
1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



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



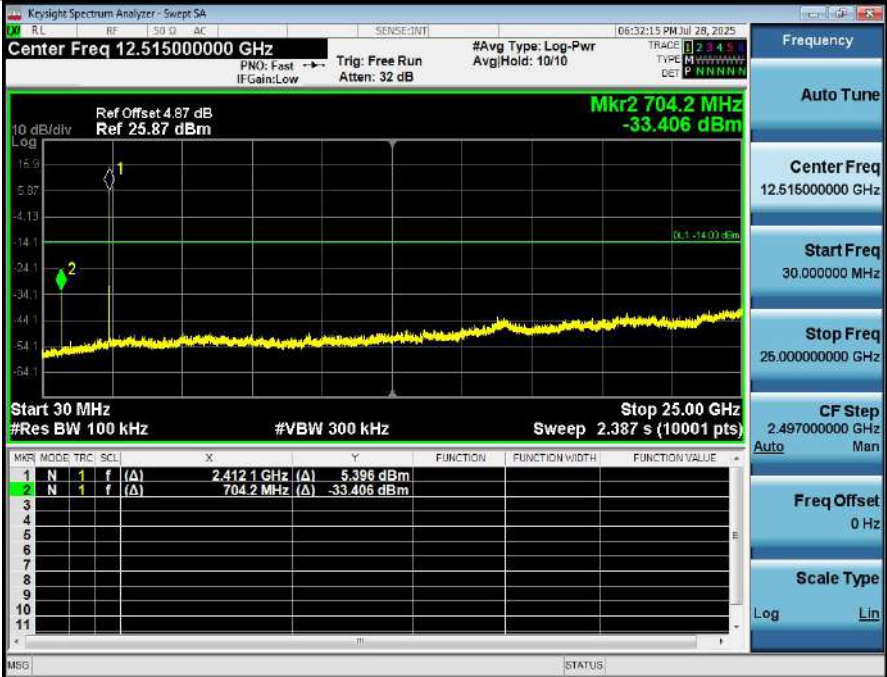
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	704.190	5.972	-33.406	-14.028	Pass
NVNT	ANT1	802.11b	2437.00	24980.024	5.943	-42.999	-14.057	Pass
NVNT	ANT1	802.11b	2462.00	704.190	6.341	-29.939	-13.659	Pass
NVNT	ANT1	802.11g	2412.00	2534.491	-0.110	-41.760	-20.110	Pass
NVNT	ANT1	802.11g	2437.00	711.681	-0.387	-39.370	-20.387	Pass
NVNT	ANT1	802.11g	2462.00	2519.509	0.878	-38.020	-19.122	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2531.994	-0.186	-29.610	-20.186	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	729.160	-1.236	-37.836	-21.236	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2576.940	-0.047	-33.393	-20.047	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	721.669	-3.369	-41.456	-23.369	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	721.669	-3.556	-28.752	-23.556	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2586.928	-3.302	-43.555	-23.302	Pass

1 Reference Level NVNT_ANT1_802_11b_2412



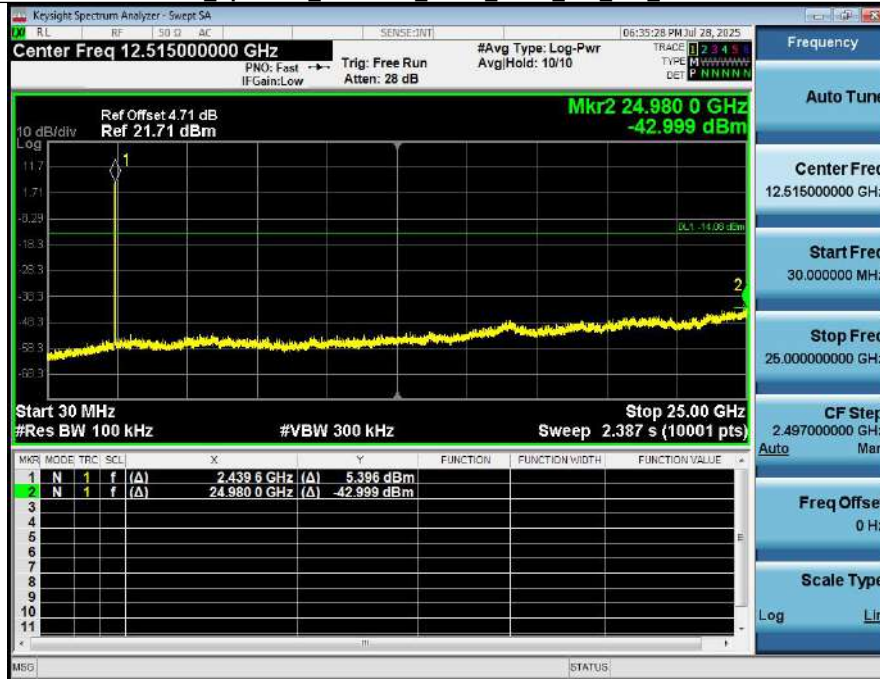
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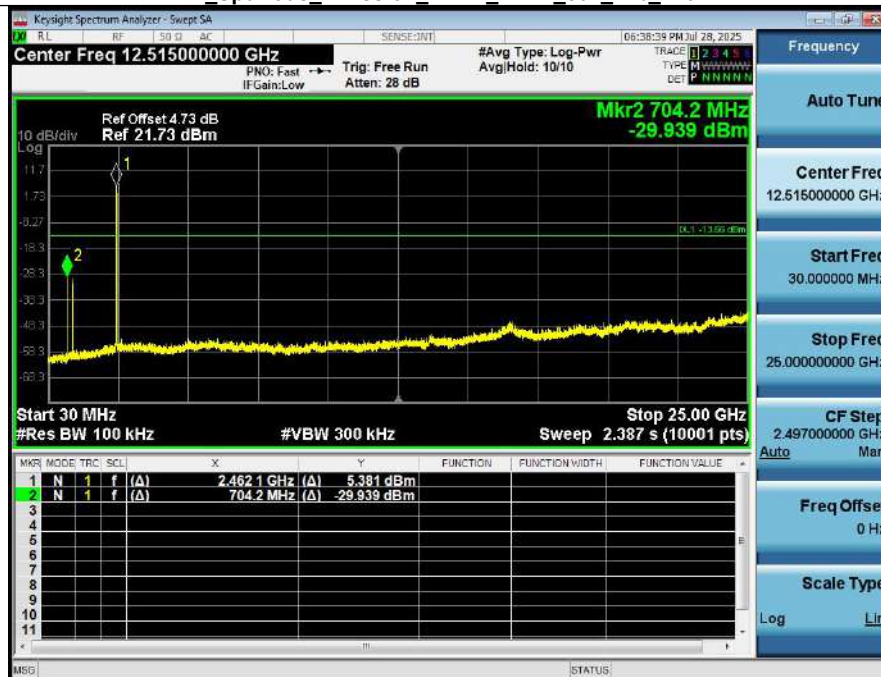
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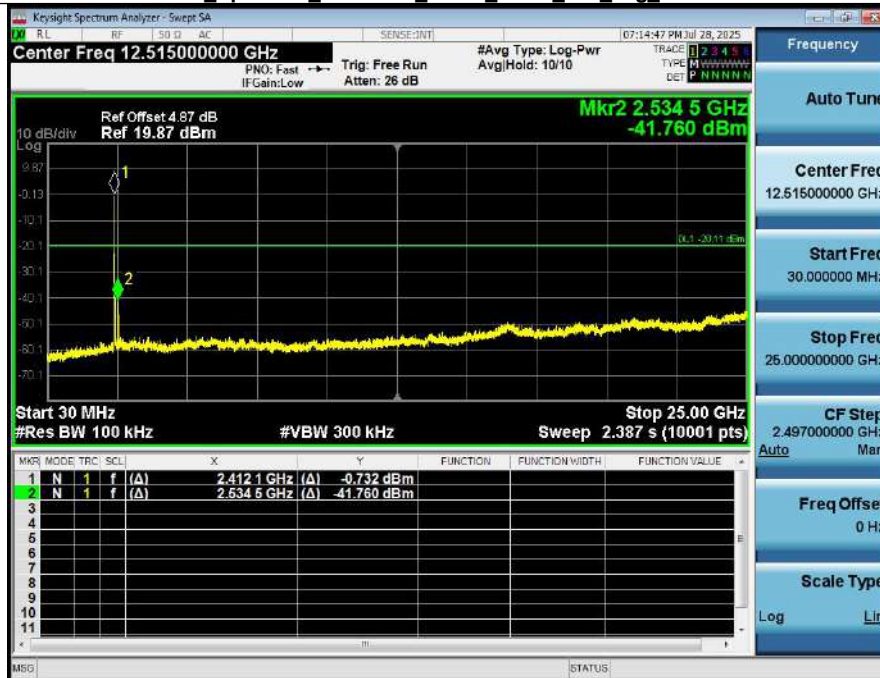
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1 Reference Level NVNT_ANT1_802_11g_2412



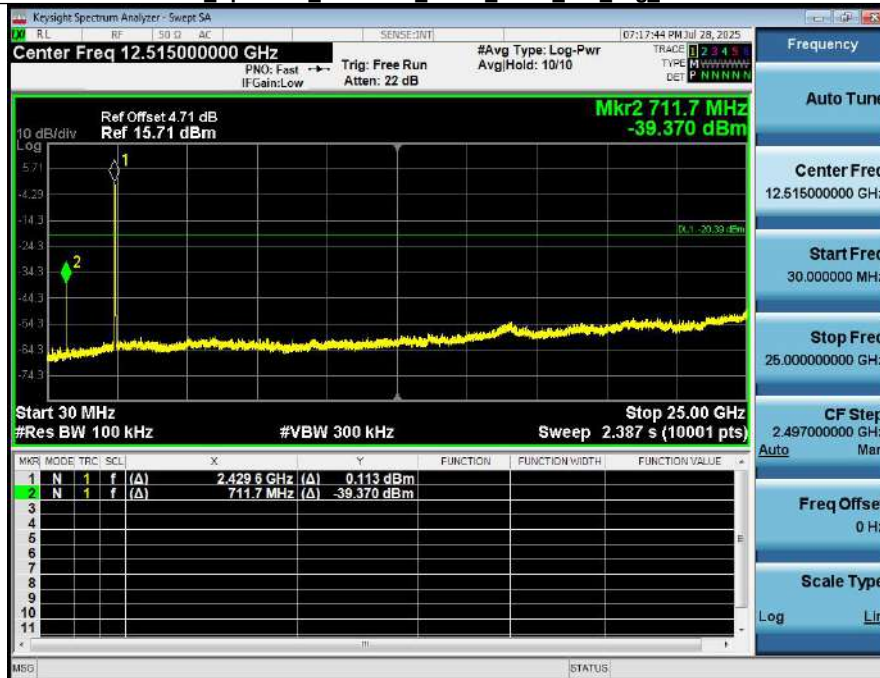
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1 Reference Level NVNT_ANT1_802_11g_2437



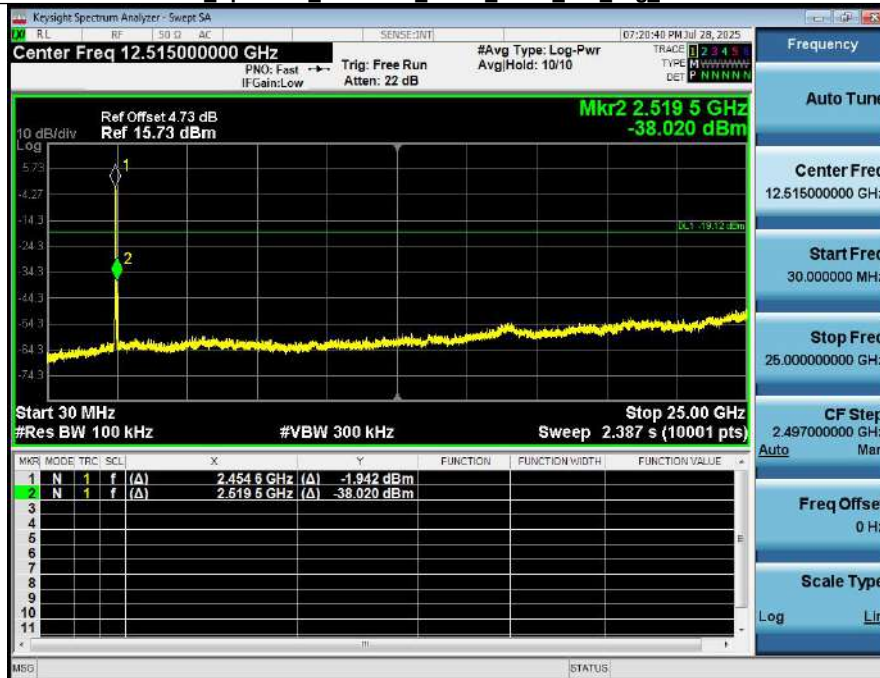
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1 Reference Level NVNT_ANT1_802_11g_2462



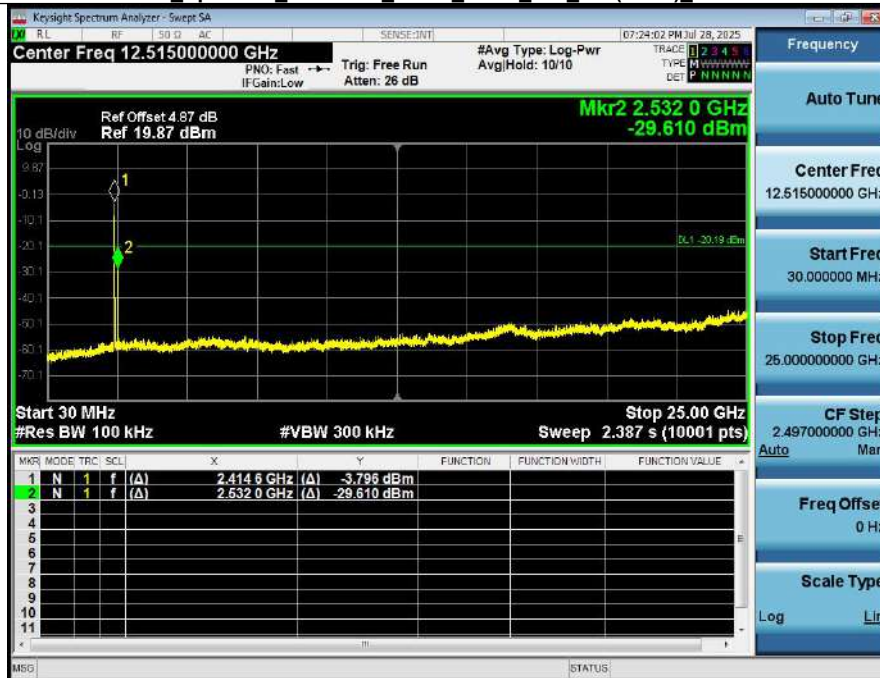
2 Spurious Emission NVNT_ANT1_802_11g_2462



1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



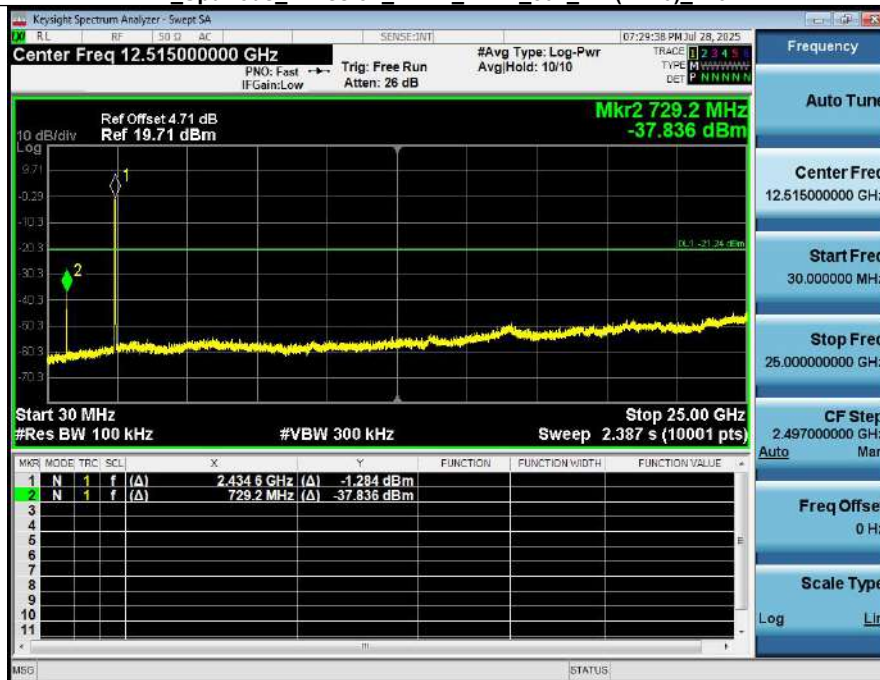
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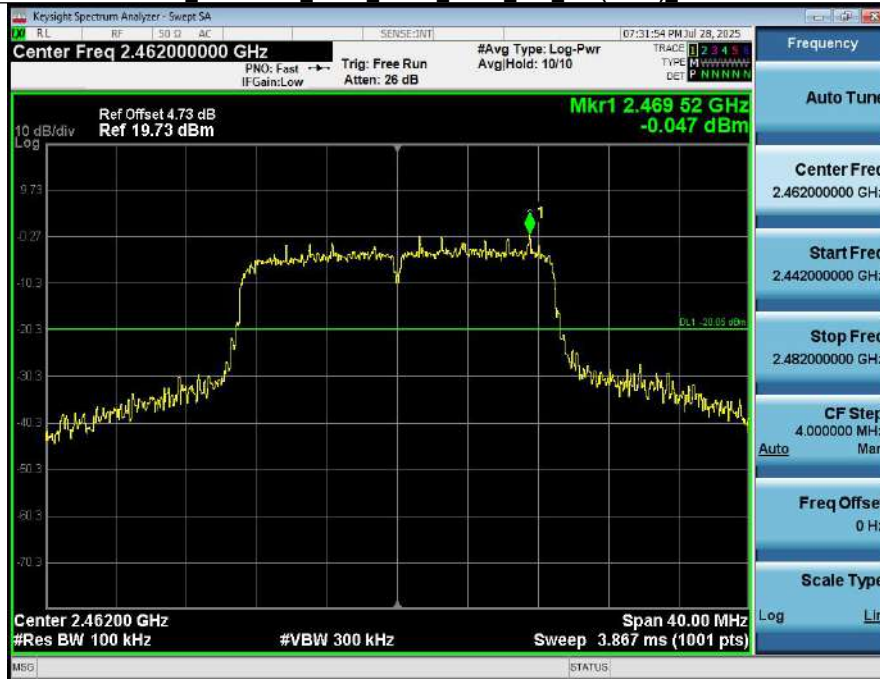
1 Reference Level NVNT_ANT1_802_11n(HT20) 2437



2 Spurious Emission NVNT_ANT1_802_11n(HT20) 2437



1 Reference Level NVNT_ANT1_802_11n(HT20) 2462



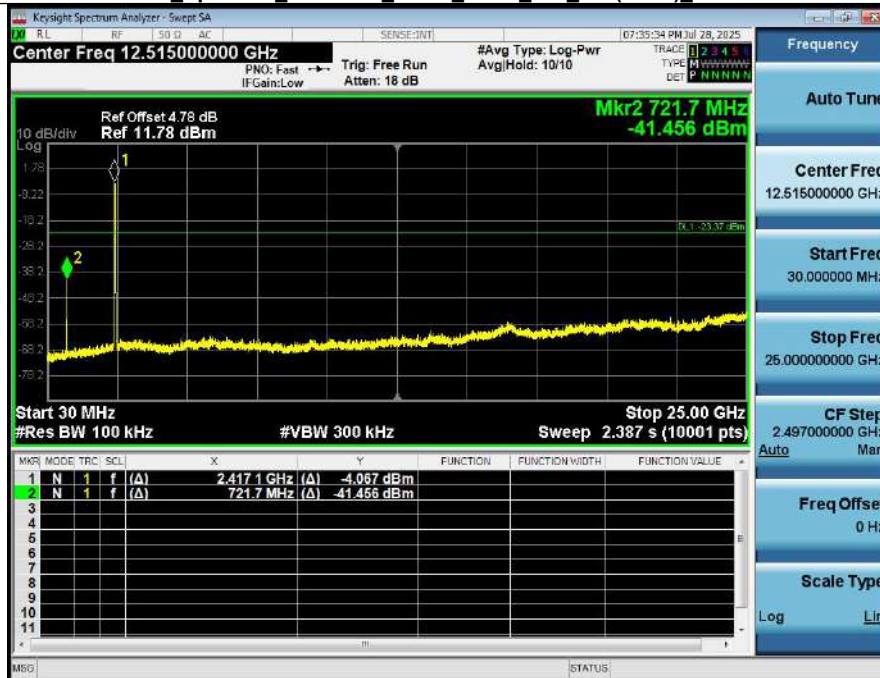
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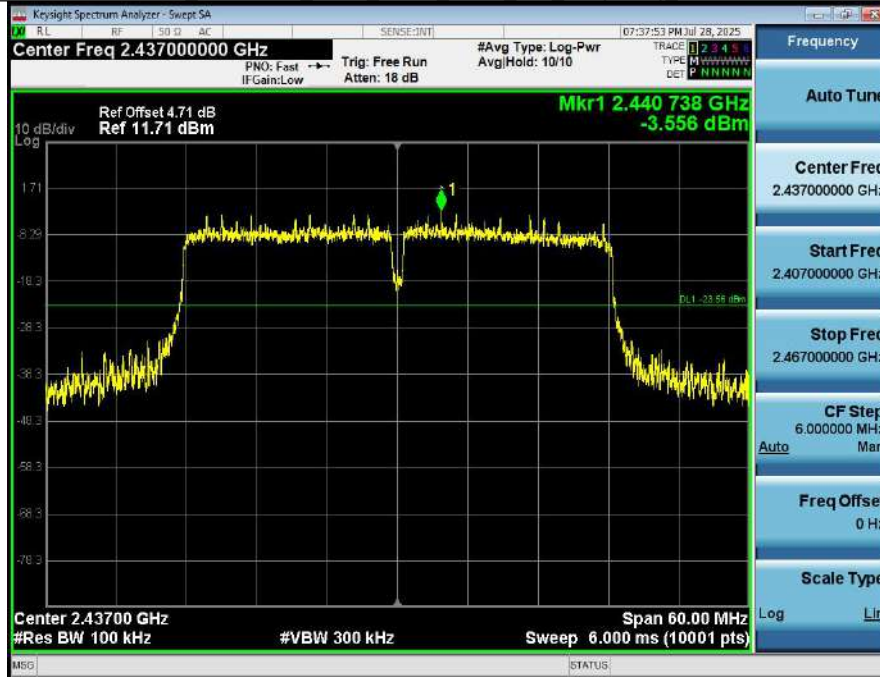
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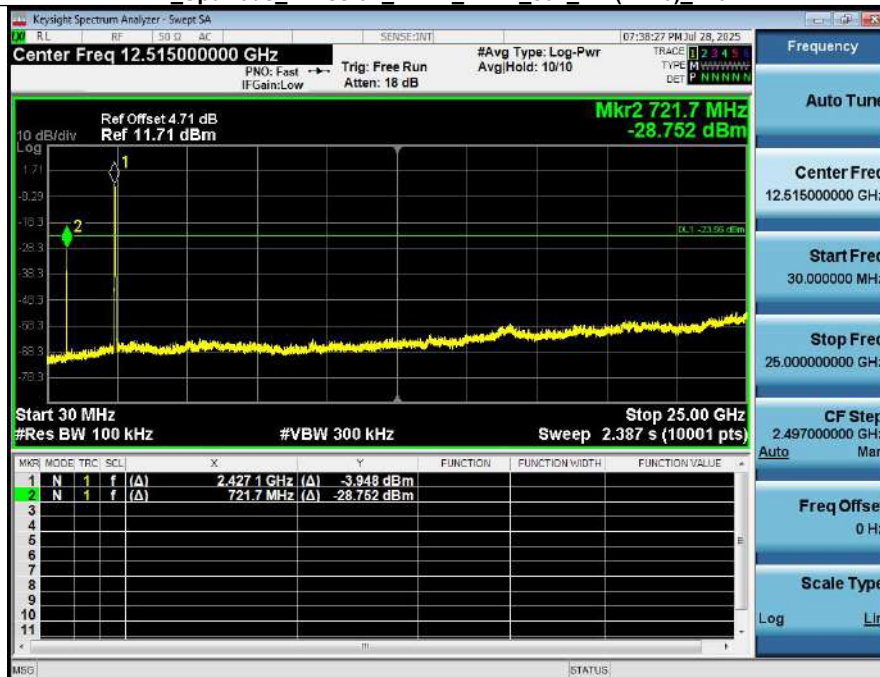
2 Spurious Emission NVNT_ANT1_802_11n(HT40) 2422



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

