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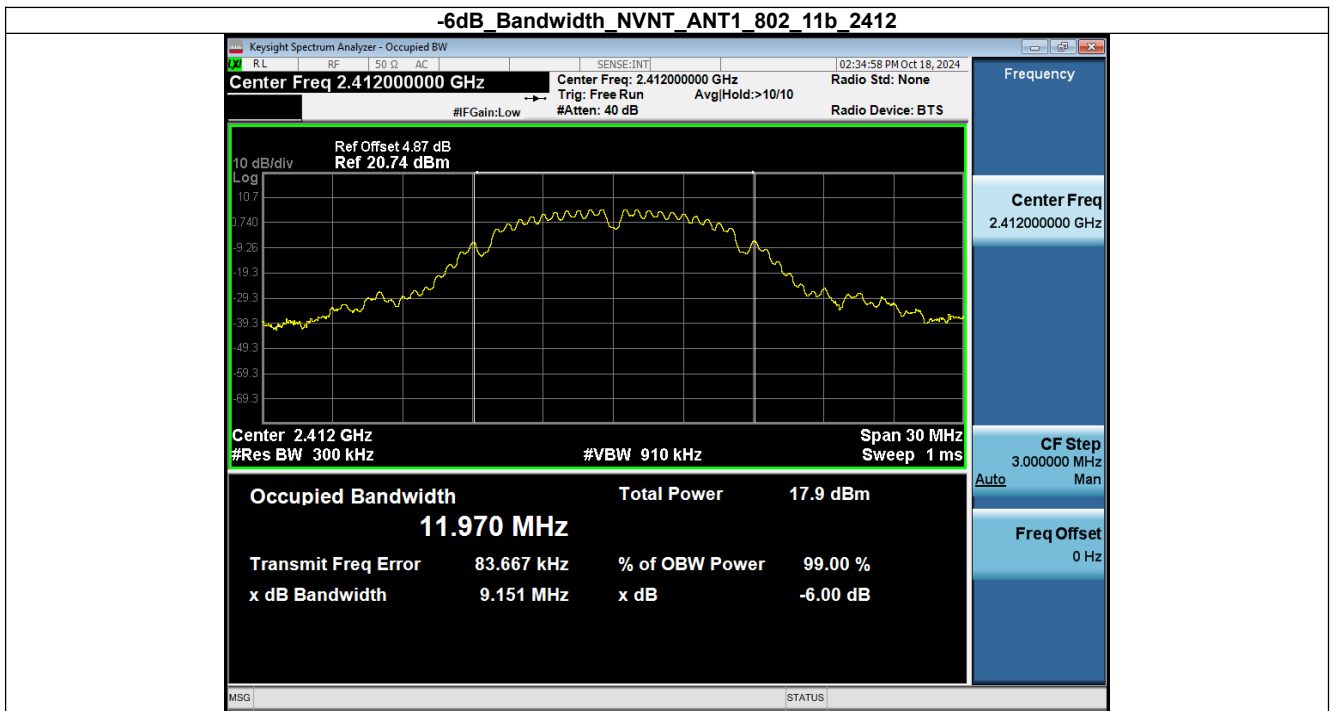
FCC ID:2BCAX-HY320N

IC:31576-HY320NTV

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	9.21	500	Pass
NVNT	ANT1	802.11g	2412.00	16.33	500	Pass
NVNT	ANT1	802.11g	2437.00	16.44	500	Pass
NVNT	ANT1	802.11g	2462.00	16.44	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.22	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.33	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.38	500	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	17.31	500	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	17.43	500	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	17.37	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.06	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.83	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.67	500	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	36.01	500	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	35.82	500	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	35.68	500	Pass



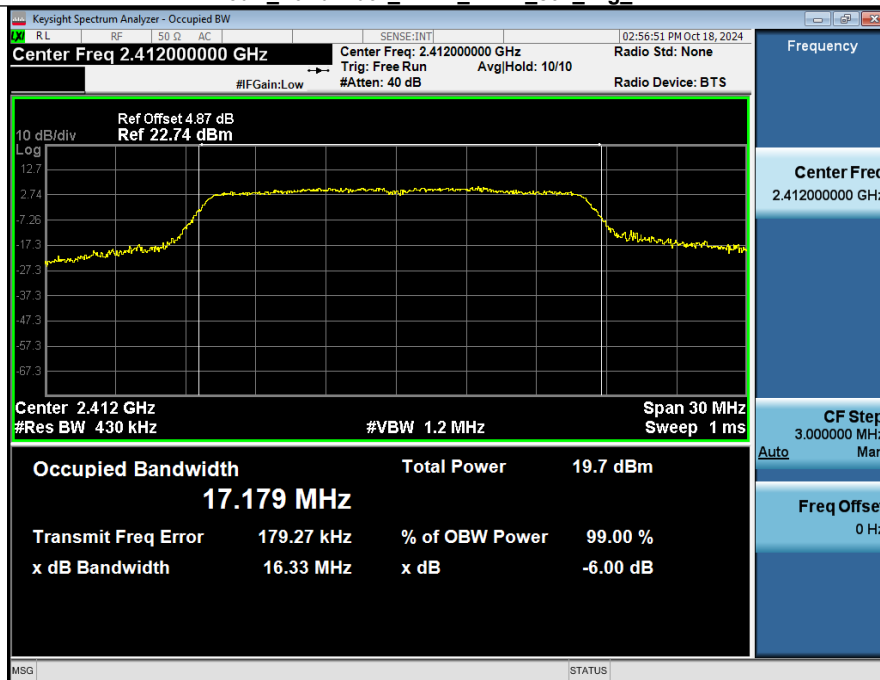
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



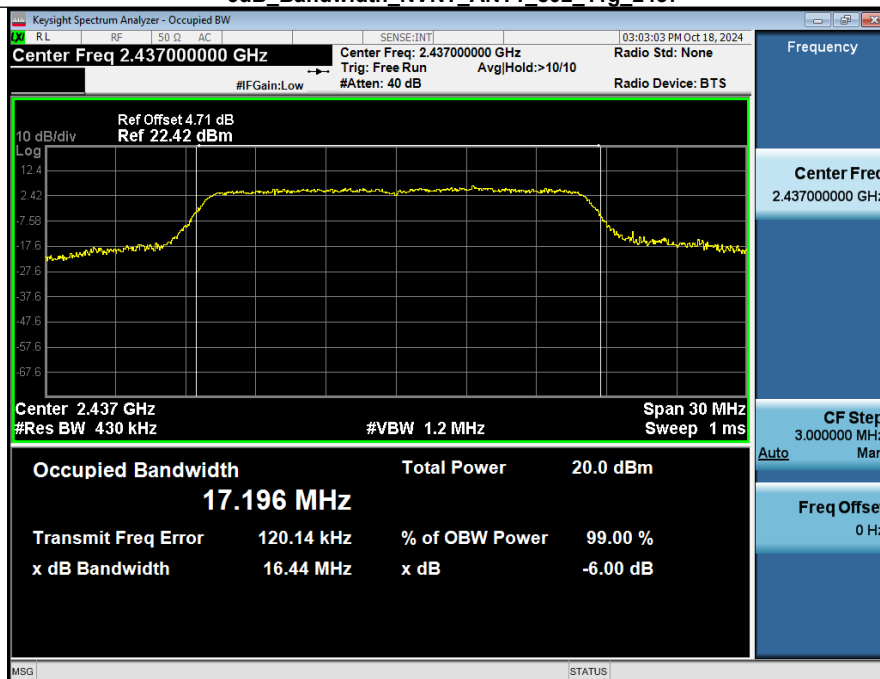
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



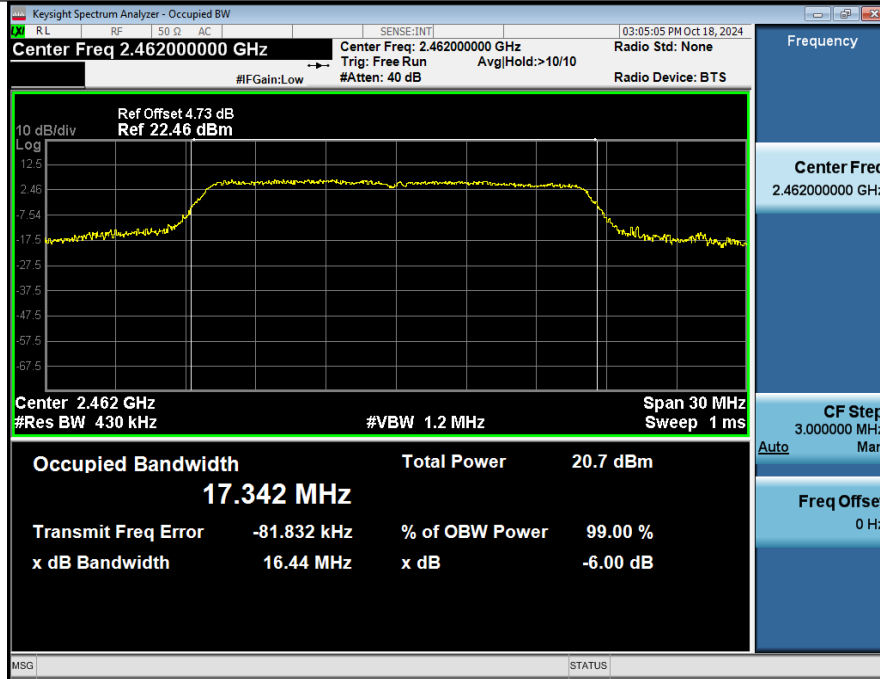
-6dB Bandwidth_NVNT_ANT1_802_11g_2412



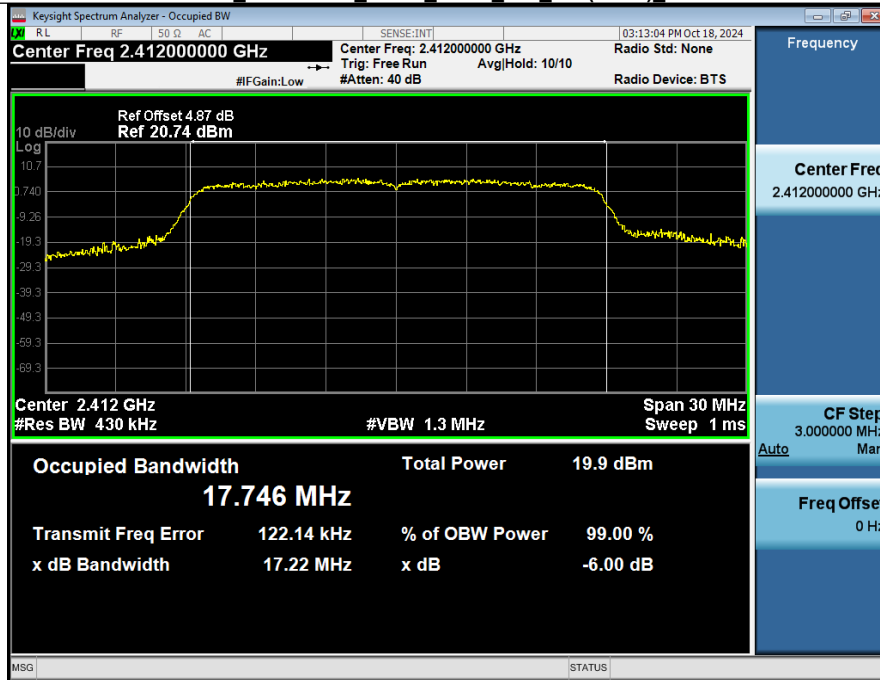
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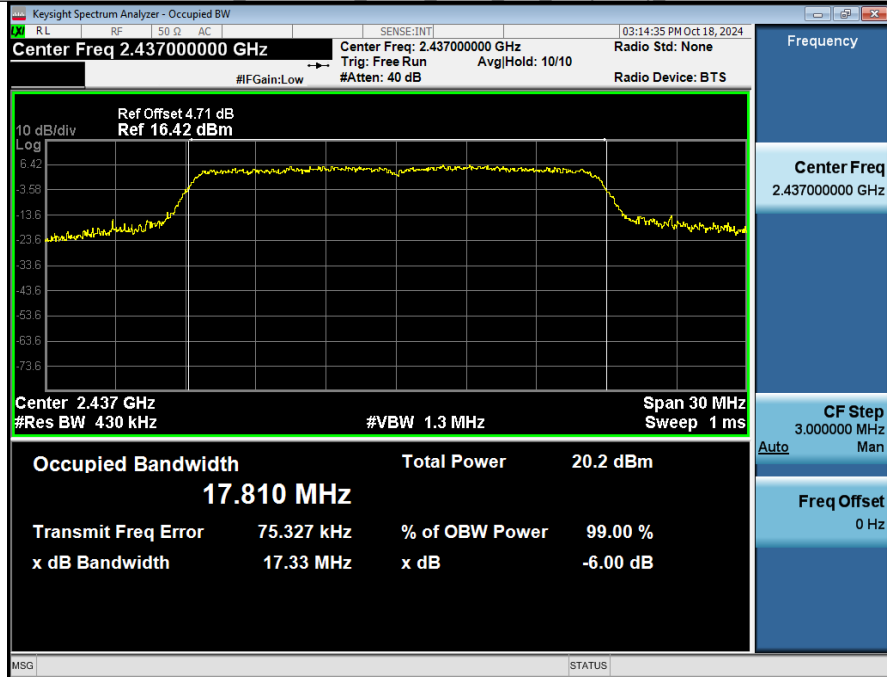
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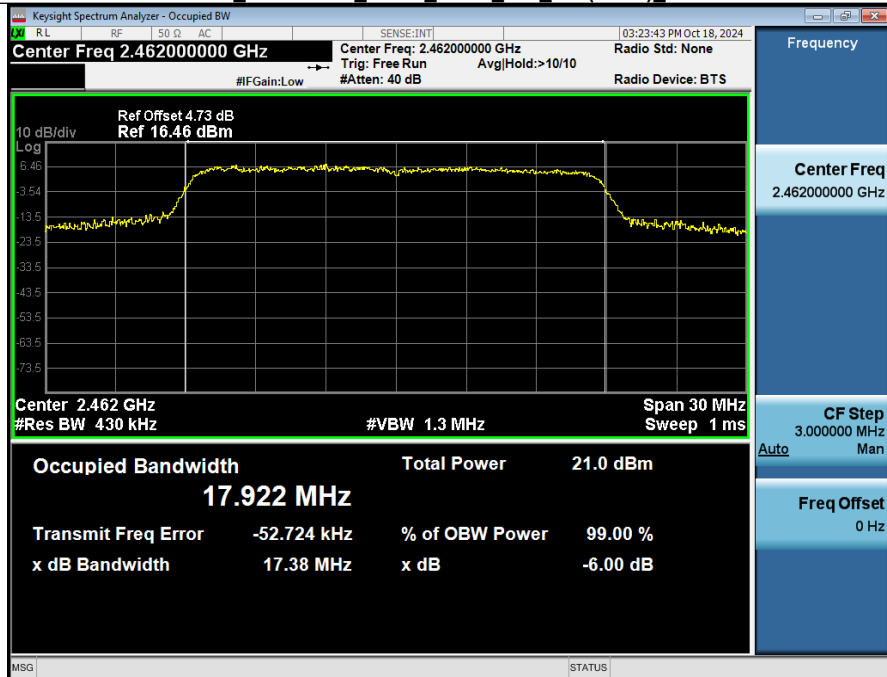
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



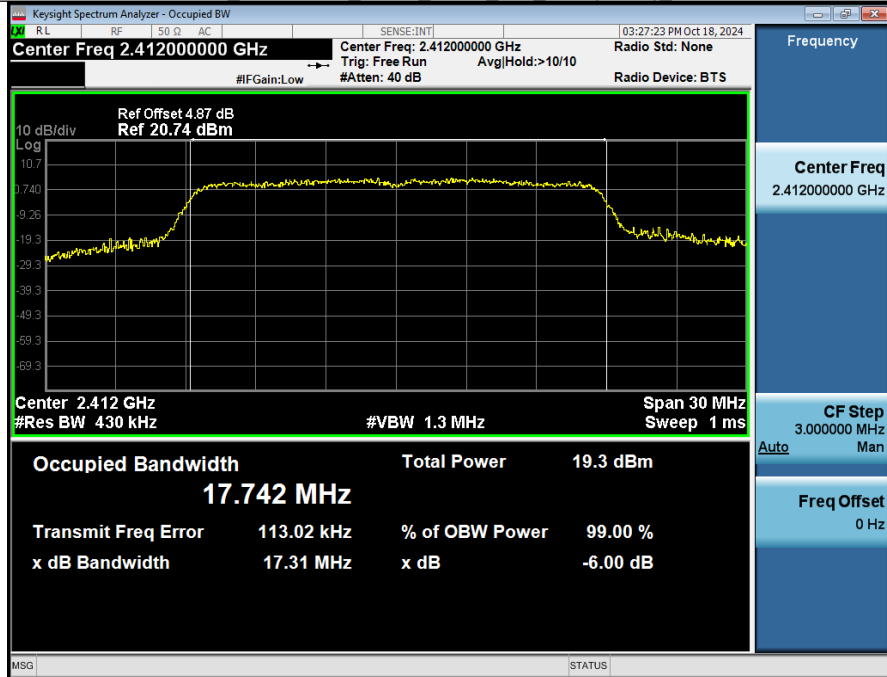
-6dB Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



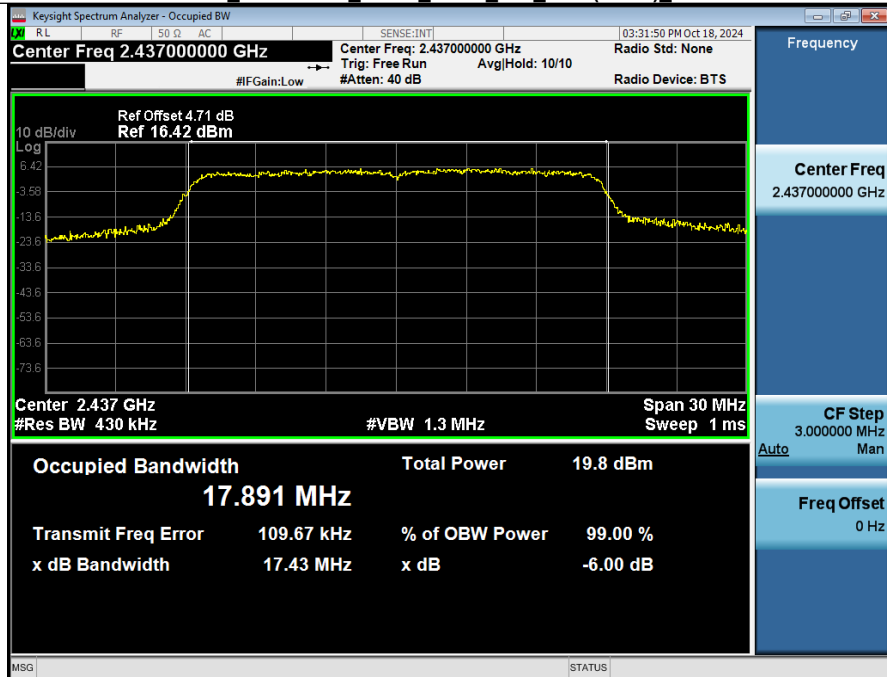
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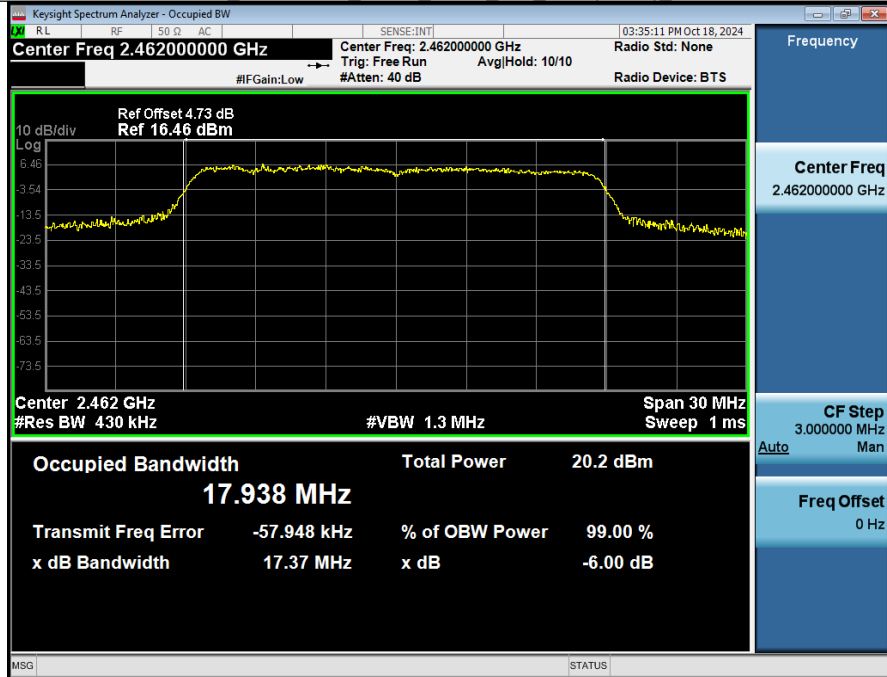
-6dB Bandwidth NVNT_ANT1_802_11ax(HE20)_2412



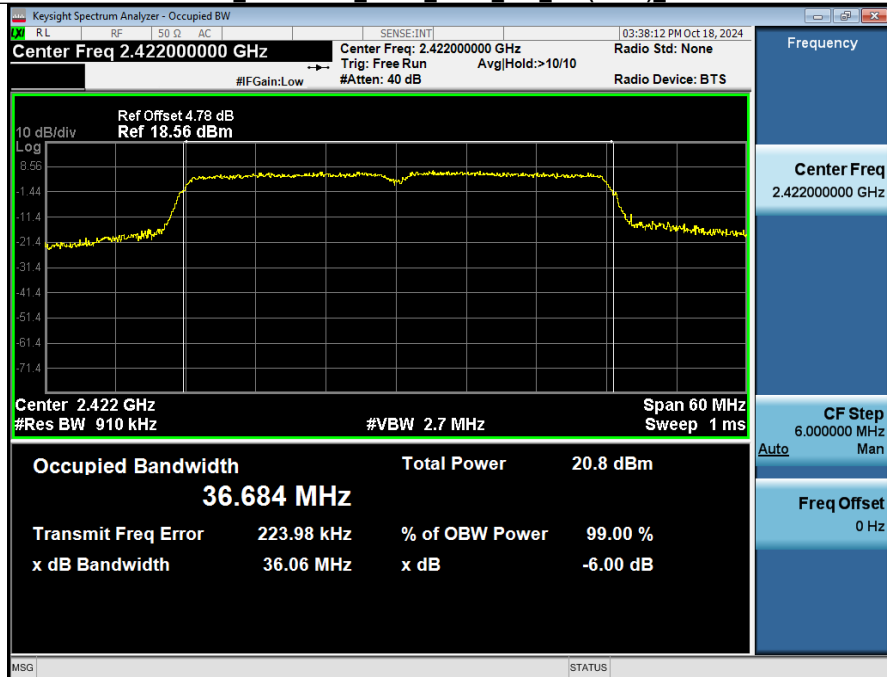
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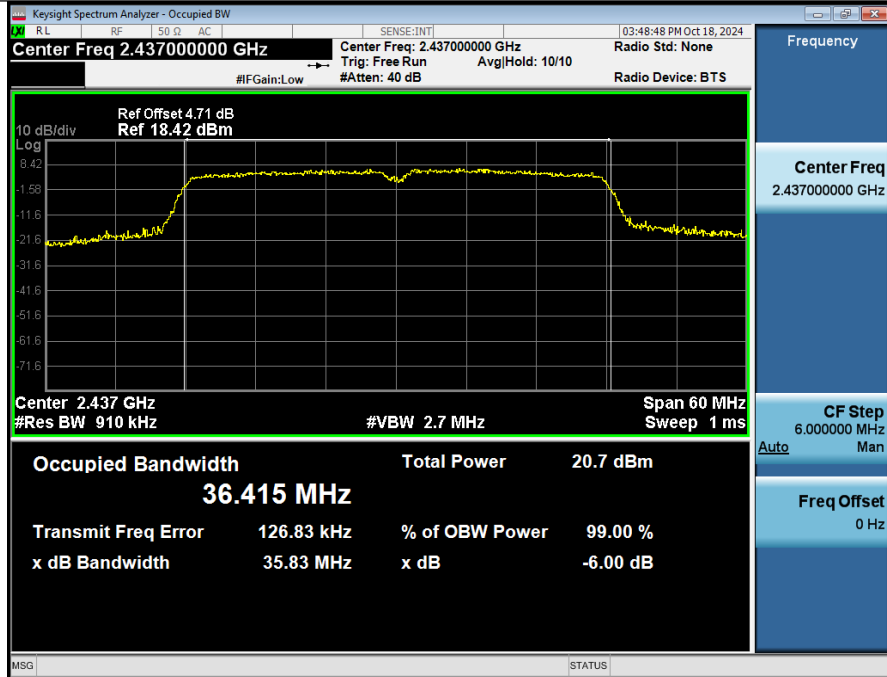
-6dB Bandwidth NVNT_ANT1_802_11ax(HE20)_2462



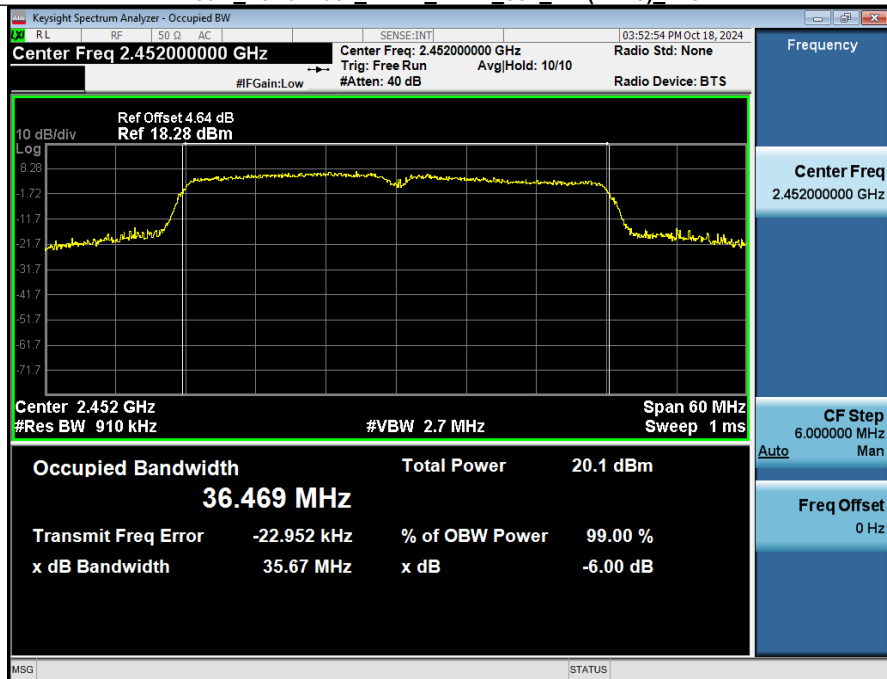
-6dB Bandwidth NVNT_ANT1_802_11n(HT40)_2422



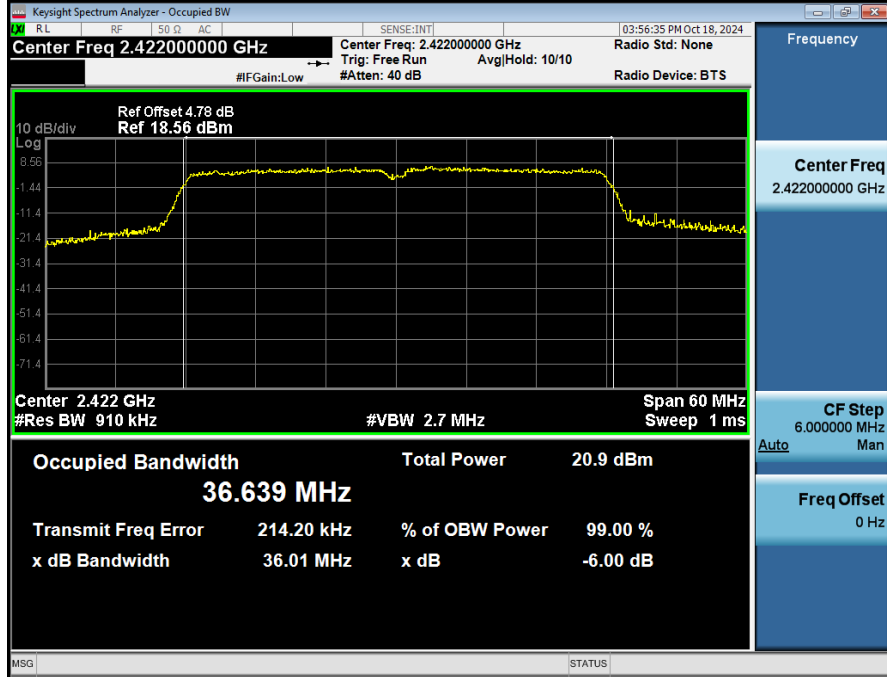
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



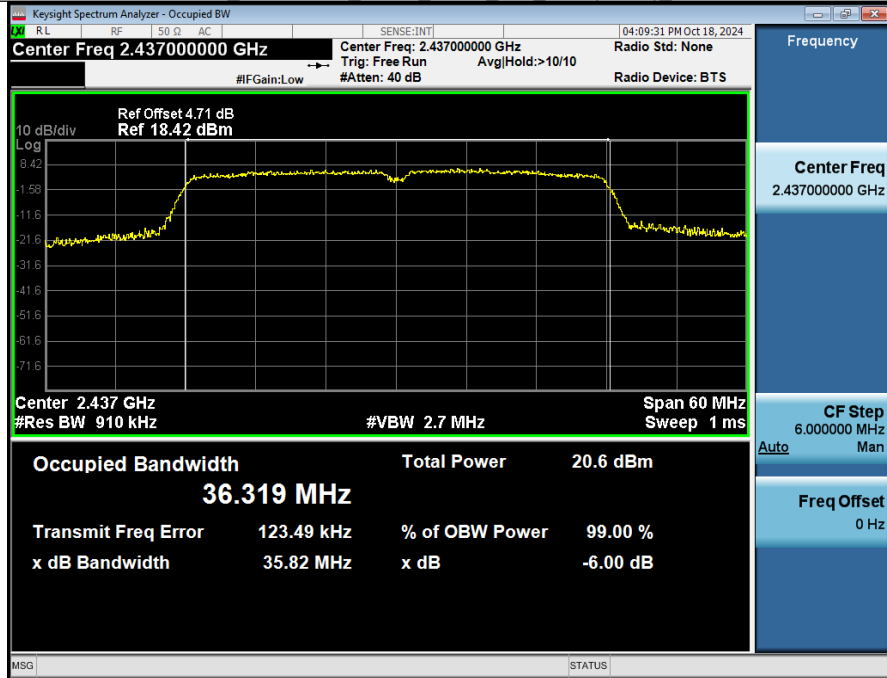
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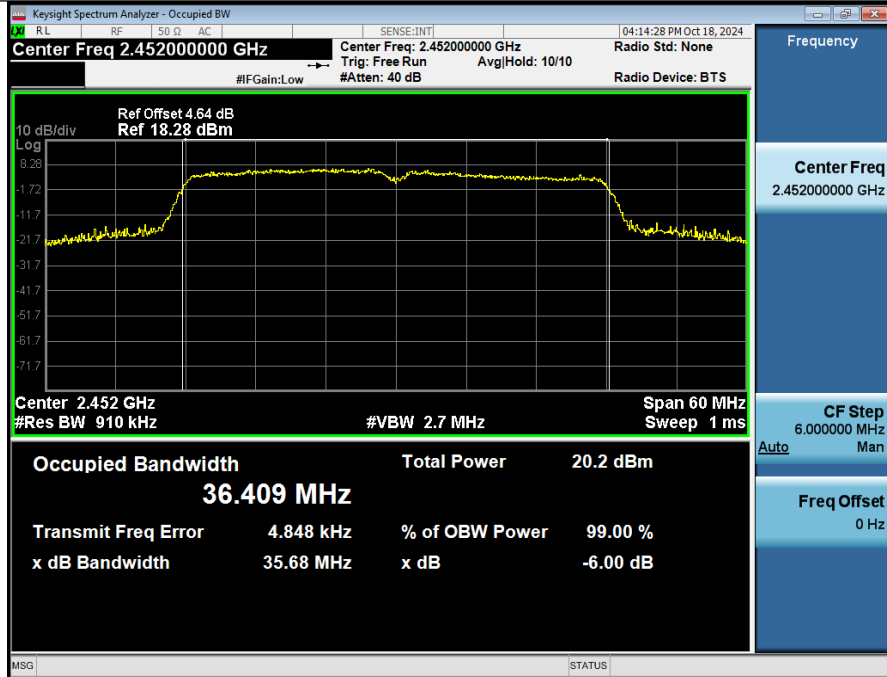
-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2437

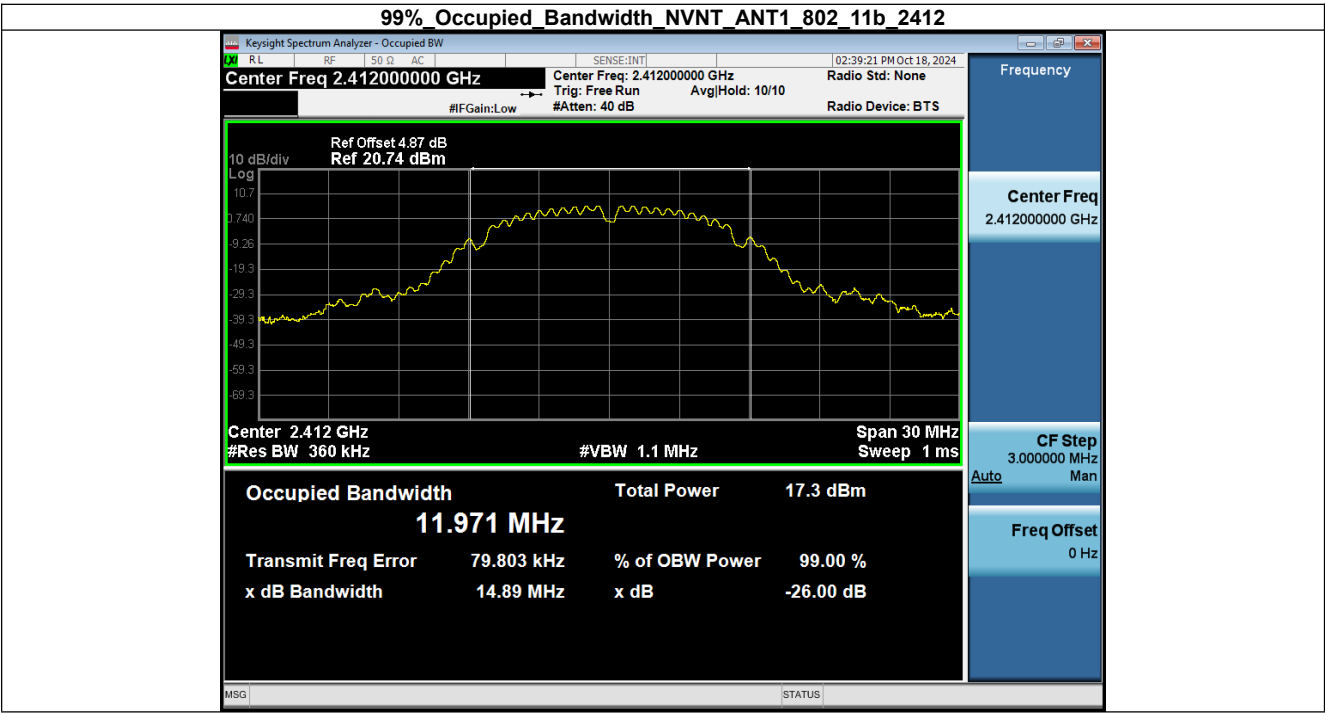


-6dB Bandwidth NVNT_ANT1_802_11ax(HE40)_2452

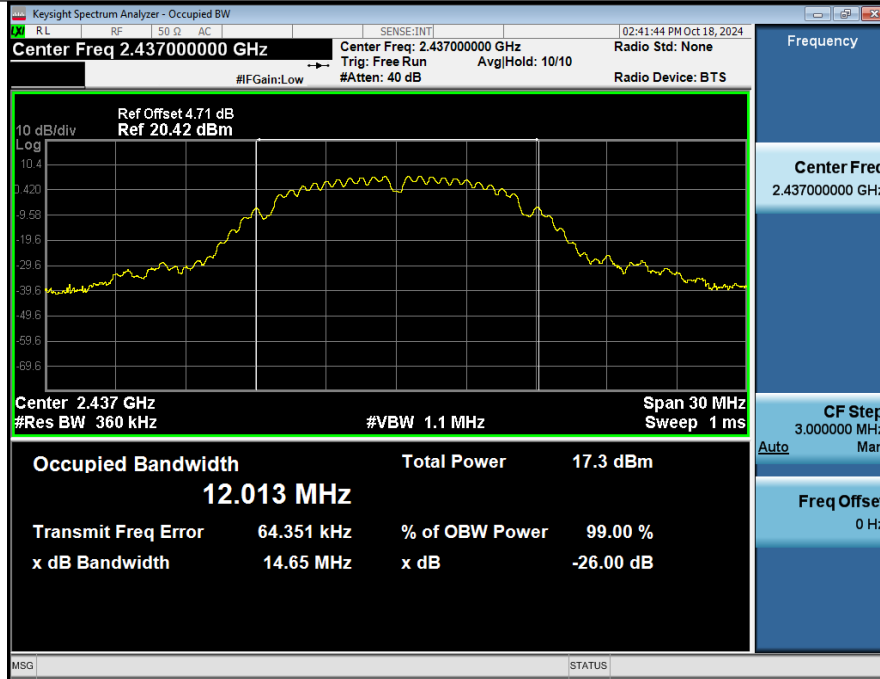


2. 99% Occupied Bandwidth

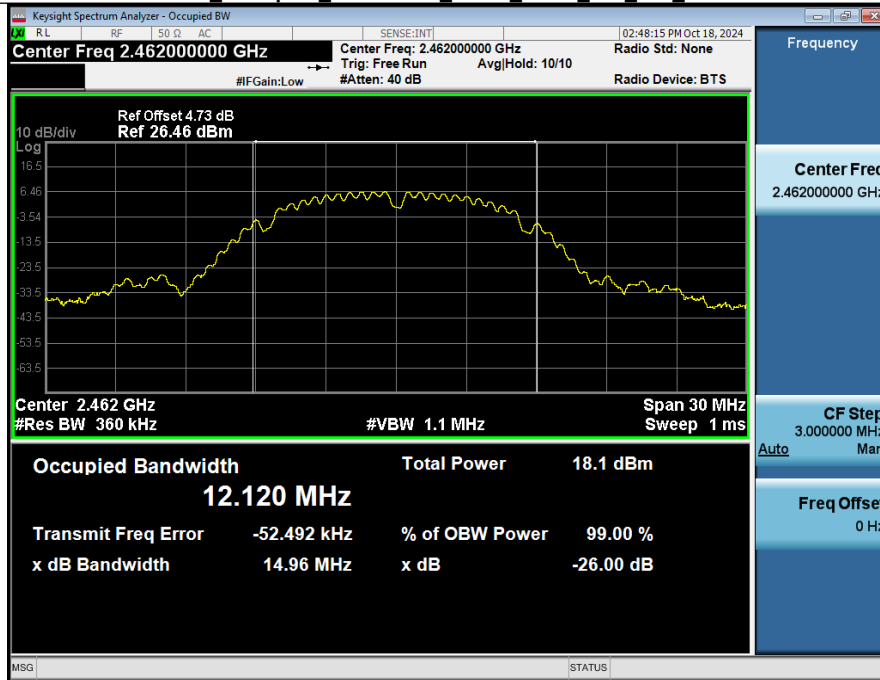
Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.971
NVNT	ANT1	802.11b	2437.00	12.013
NVNT	ANT1	802.11b	2462.00	12.120
NVNT	ANT1	802.11g	2412.00	17.465
NVNT	ANT1	802.11g	2437.00	17.502
NVNT	ANT1	802.11g	2462.00	17.848
NVNT	ANT1	802.11n(HT20)	2412.00	17.867
NVNT	ANT1	802.11n(HT20)	2437.00	17.892
NVNT	ANT1	802.11n(HT20)	2462.00	18.170
NVNT	ANT1	802.11ax(HE20)	2412.00	17.860
NVNT	ANT1	802.11ax(HE20)	2437.00	18.074
NVNT	ANT1	802.11ax(HE20)	2462.00	18.185
NVNT	ANT1	802.11n(HT40)	2422.00	36.757
NVNT	ANT1	802.11n(HT40)	2437.00	36.375
NVNT	ANT1	802.11n(HT40)	2452.00	36.452
NVNT	ANT1	802.11ax(HE40)	2422.00	36.764
NVNT	ANT1	802.11ax(HE40)	2437.00	36.408
NVNT	ANT1	802.11ax(HE40)	2452.00	36.451



99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



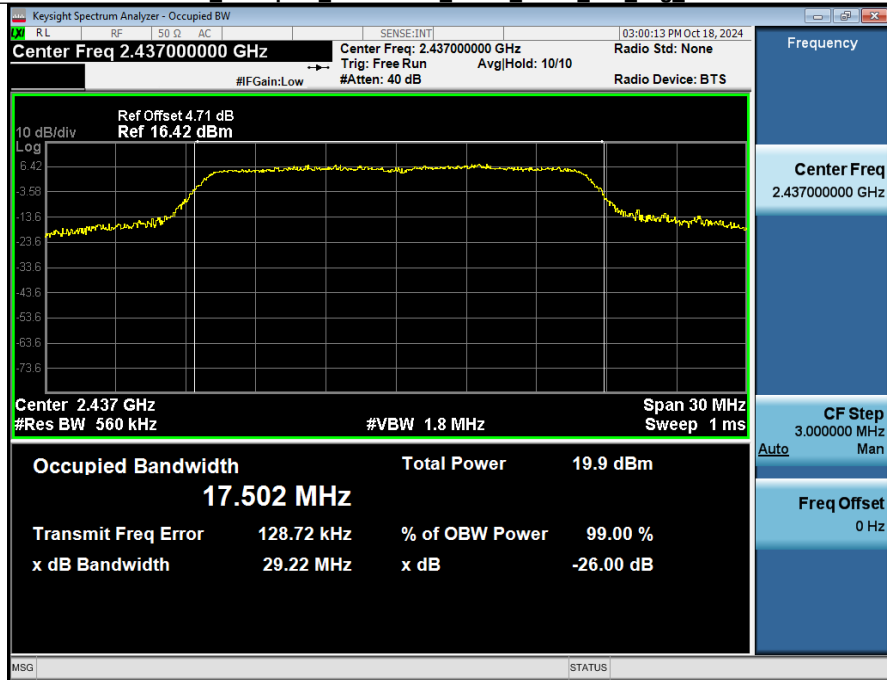
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



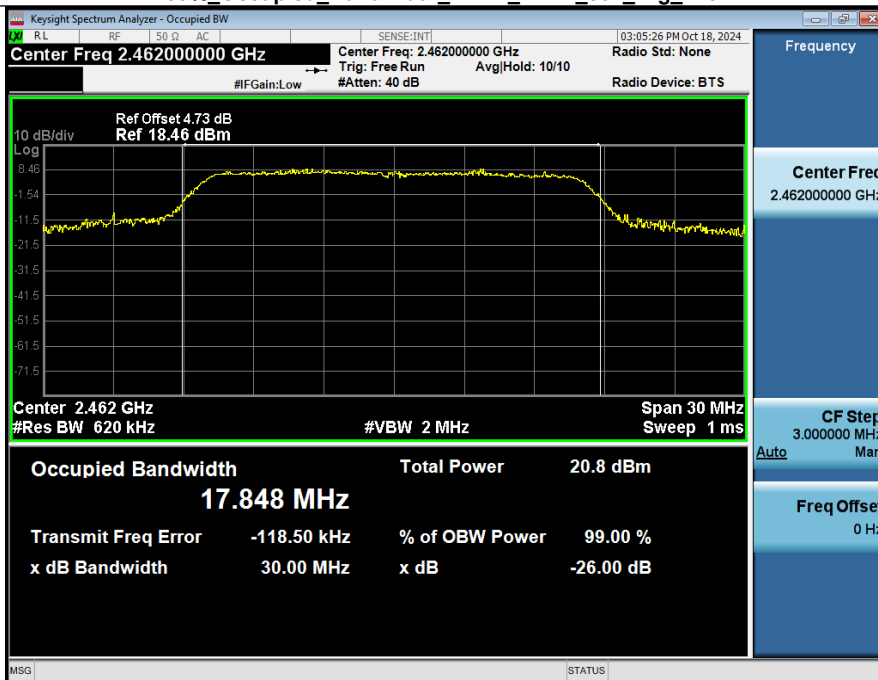
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



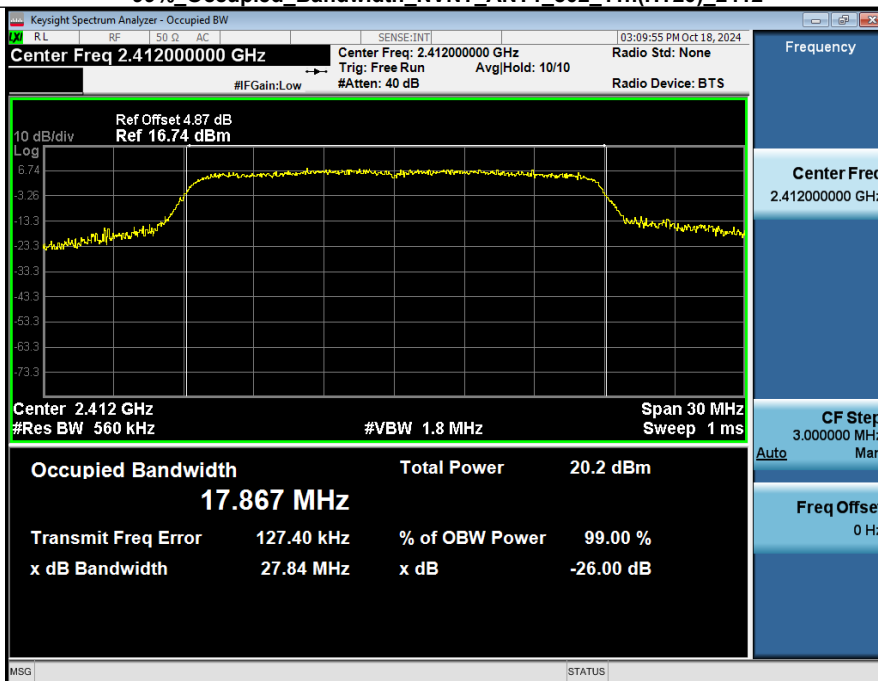
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437

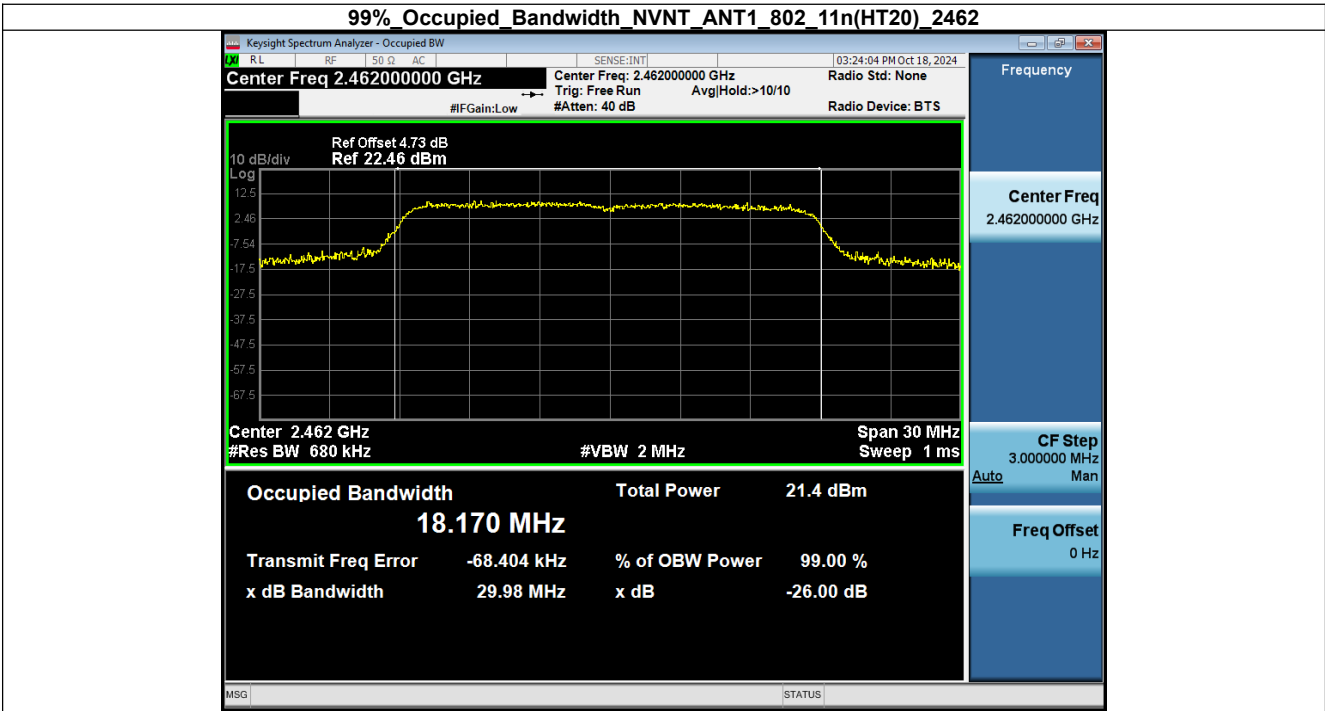
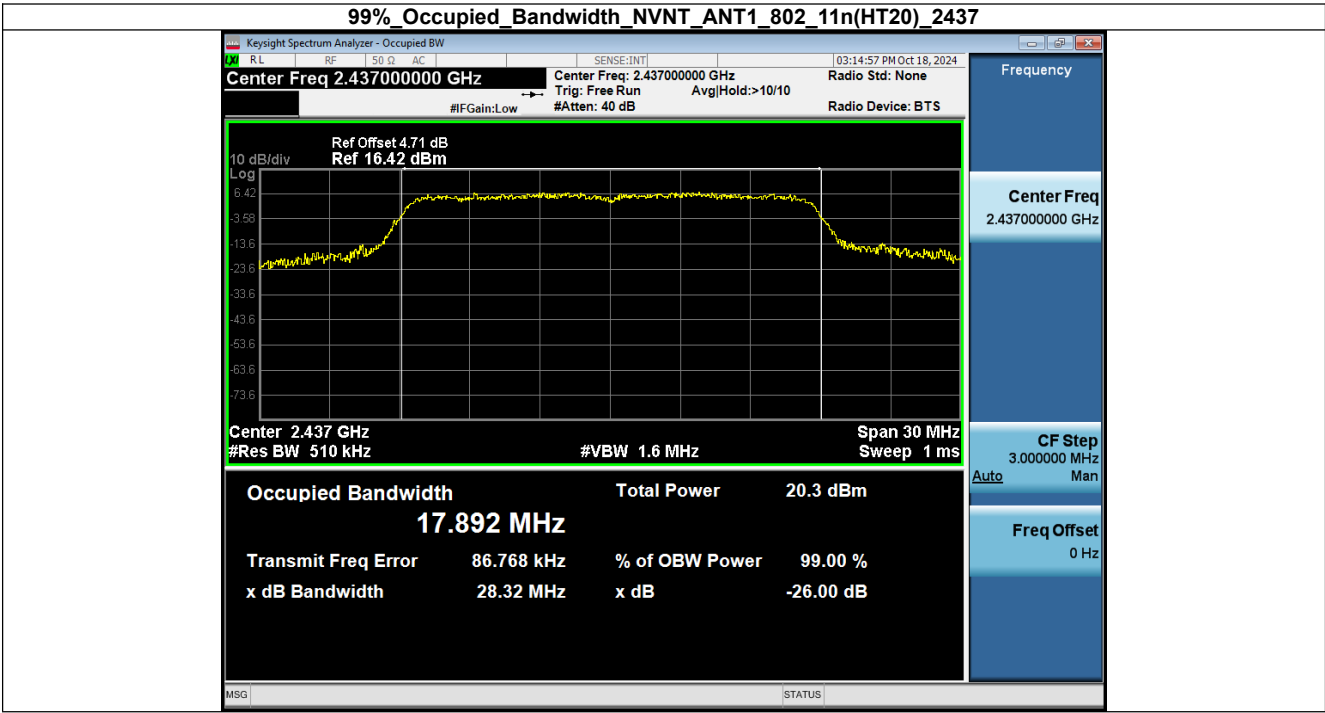


99% Occupied Bandwidth NVNT_ANT1_802_11g_2462

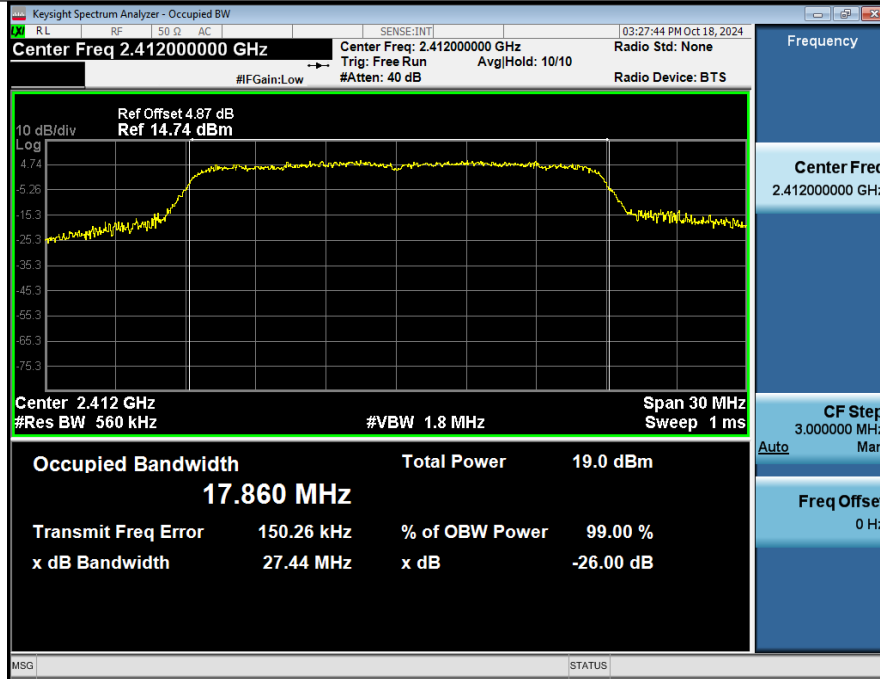


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412

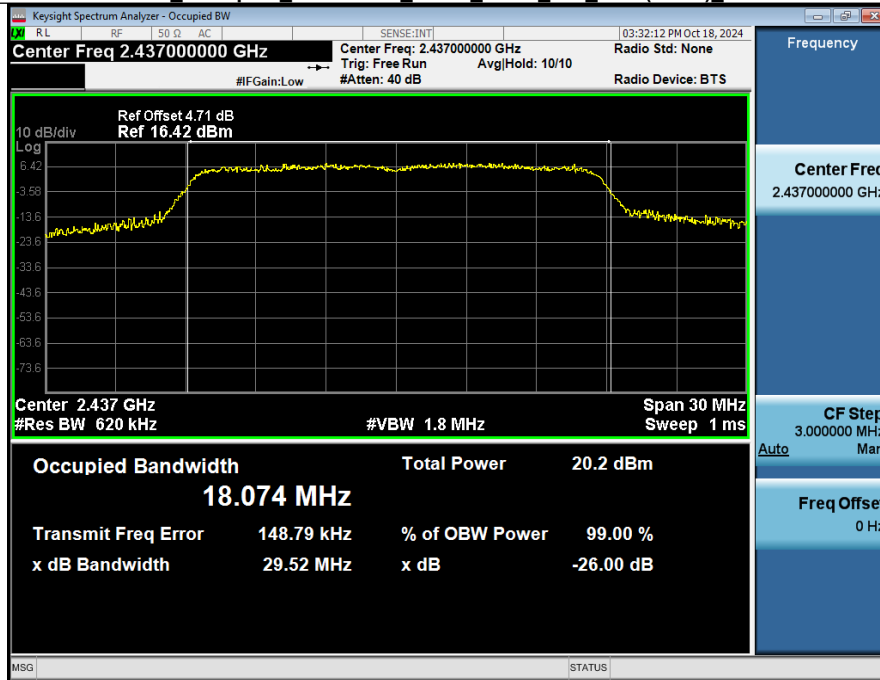




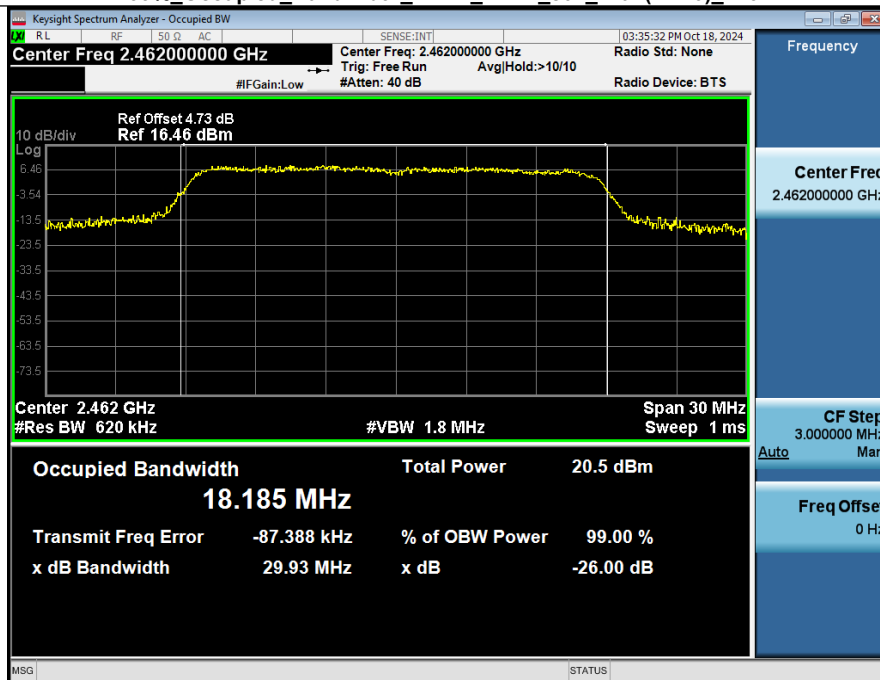
99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE20)_2412



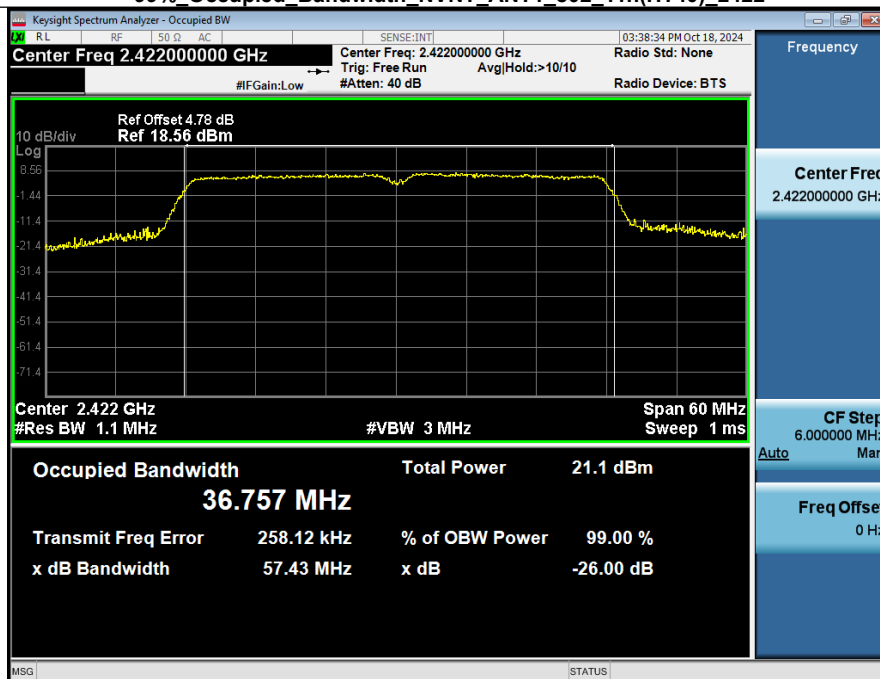
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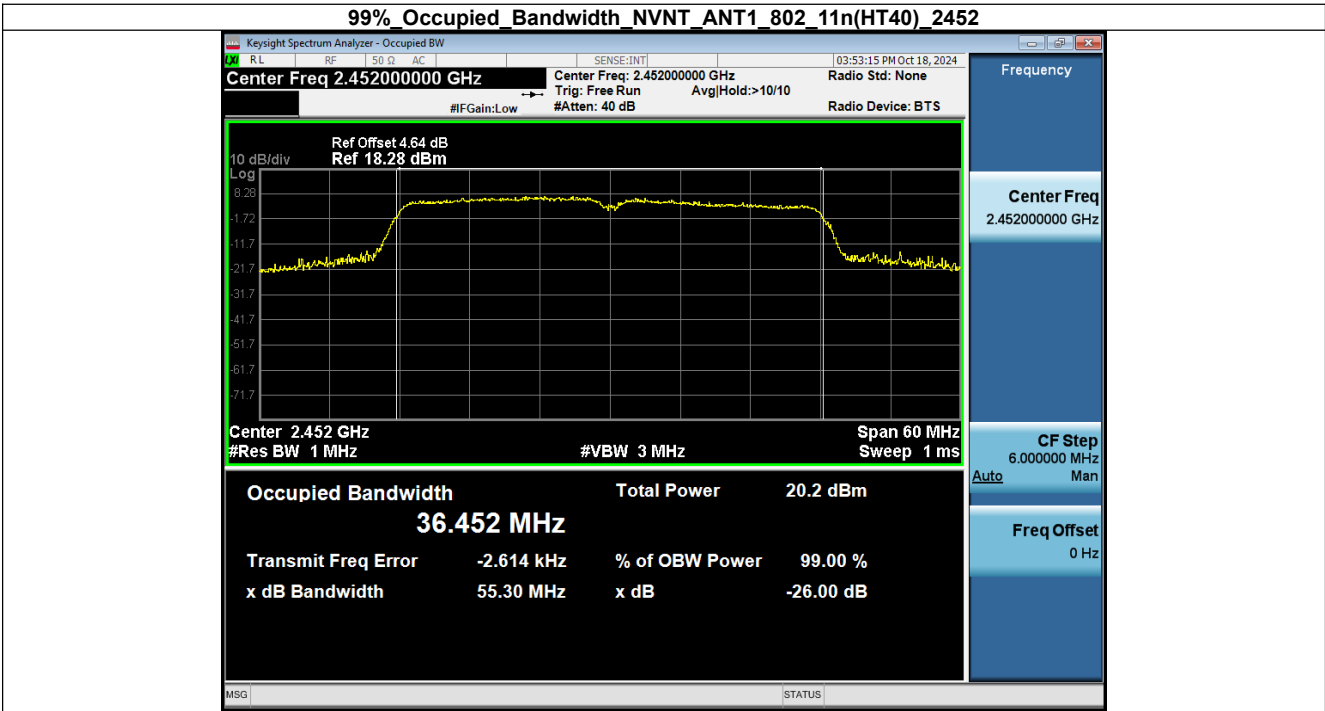
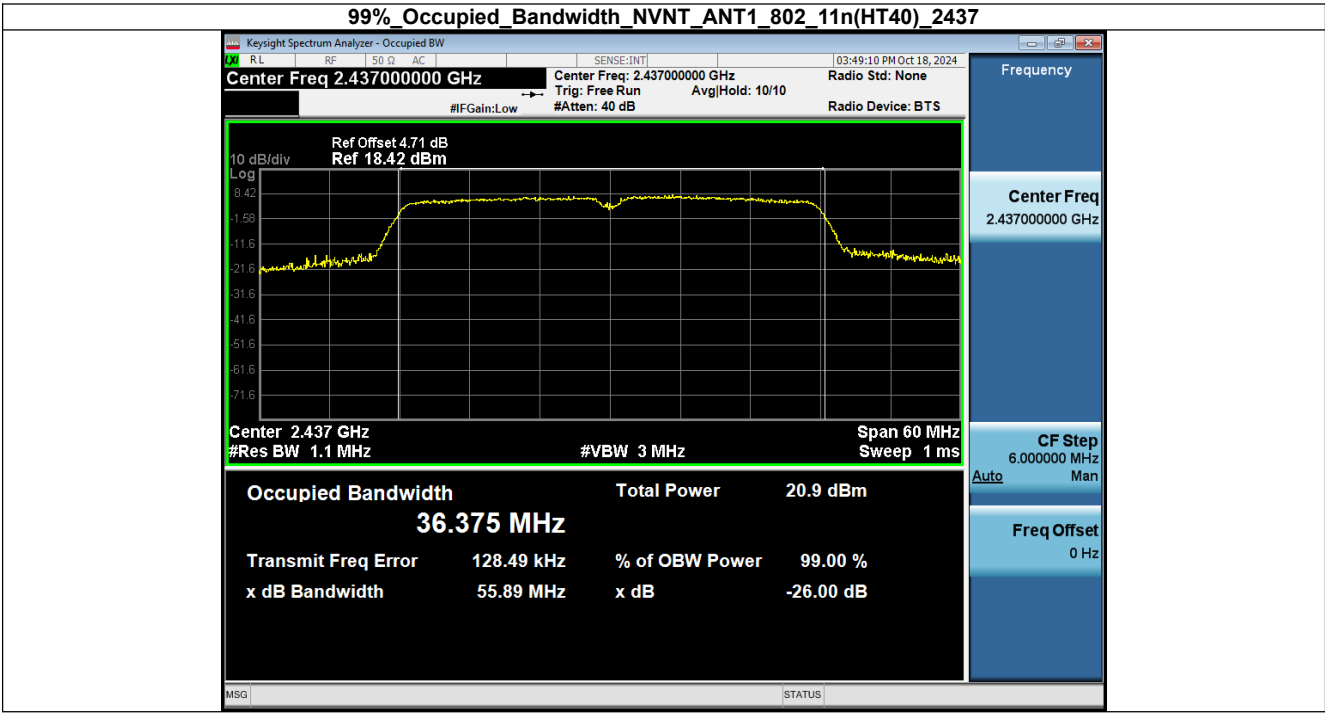


99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE20)_2462

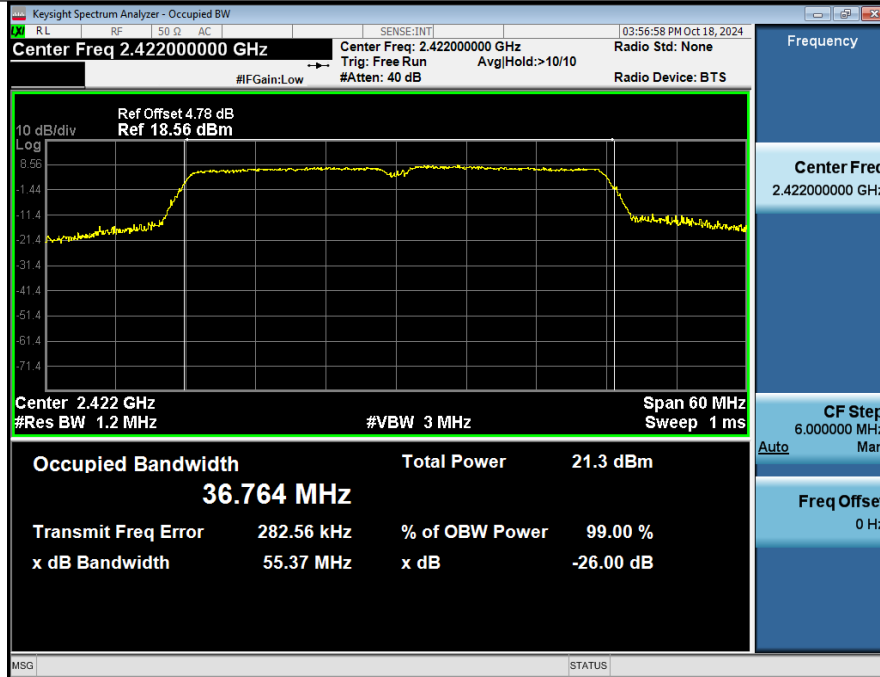


99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2422





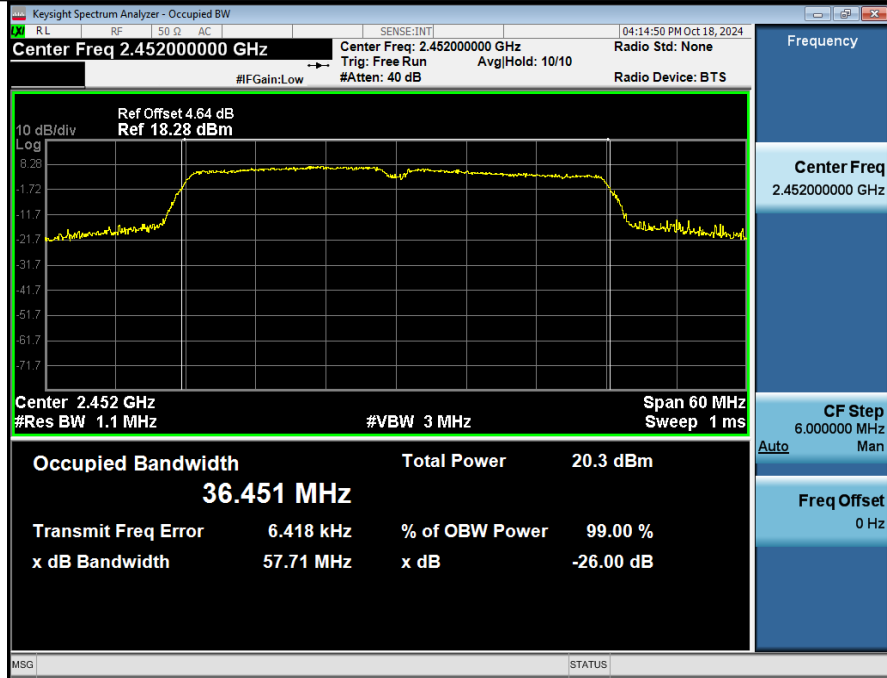
99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2422



99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2437

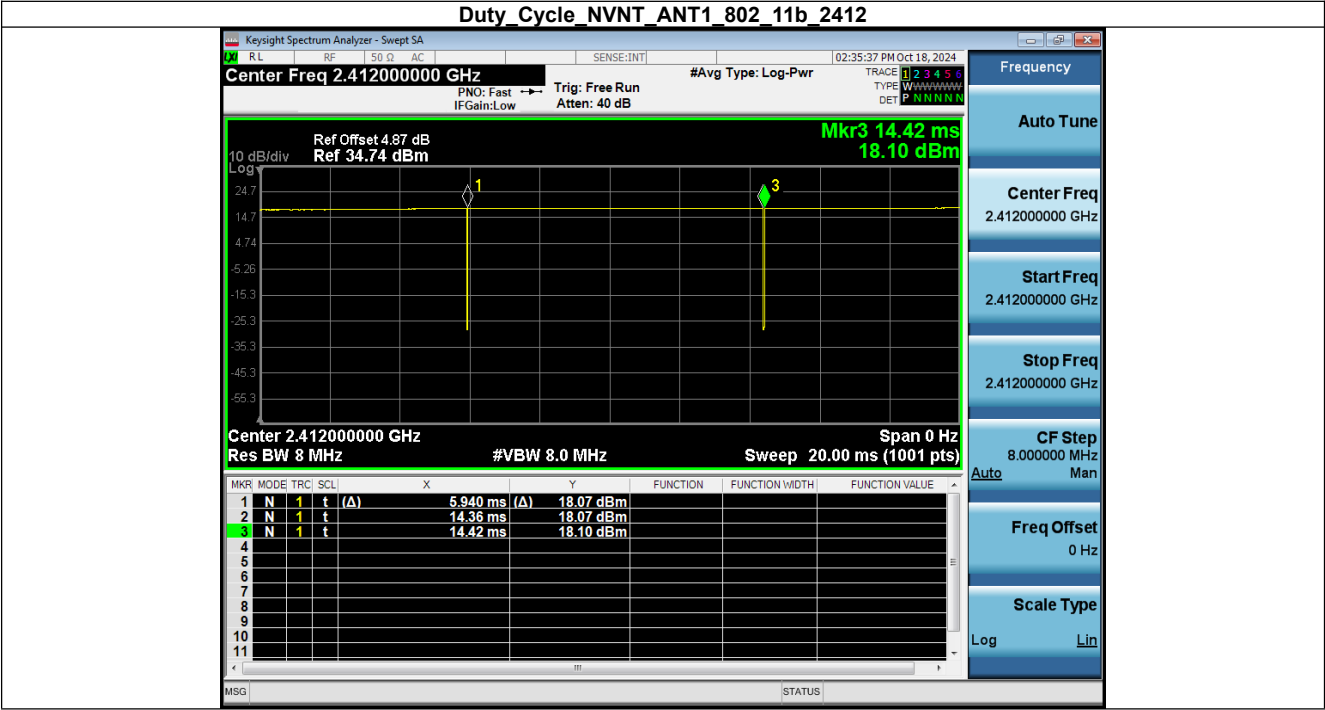


99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2452

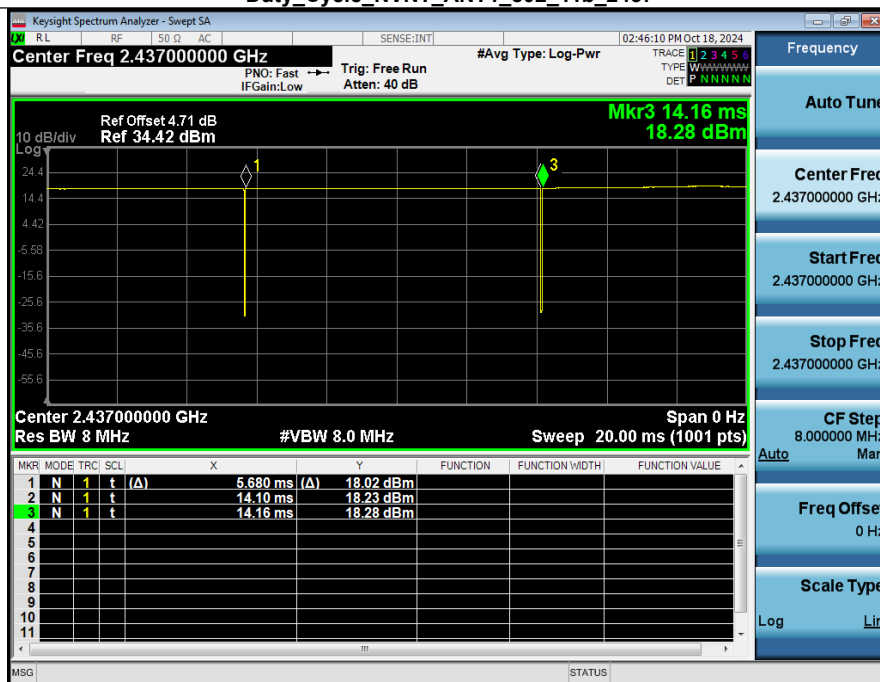


3. Duty Cycle

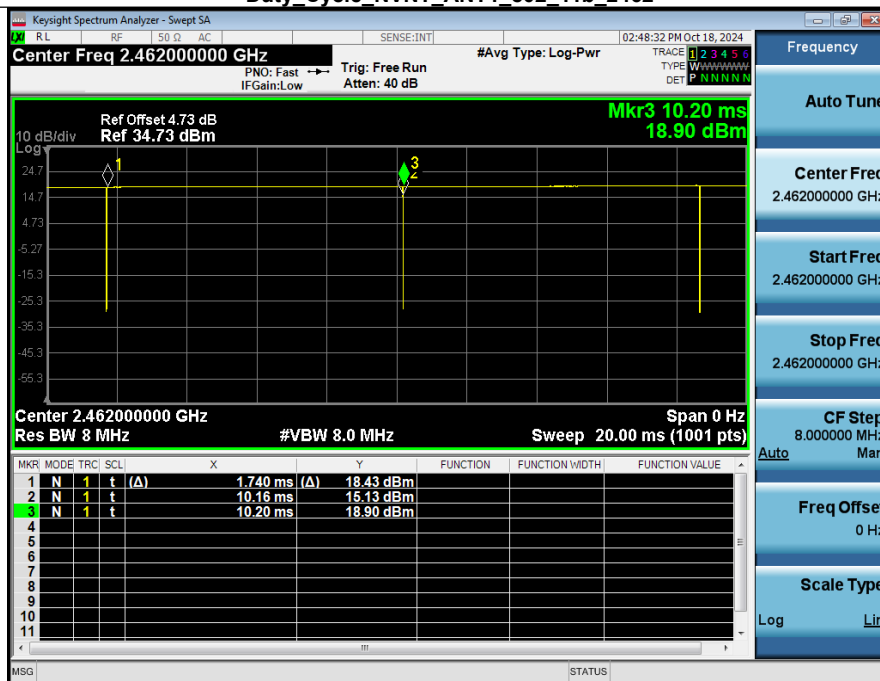
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.53	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.76	0.00
NVNT	ANT1	802.11g	2412.00	98.61	0.00
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	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	802.11ax(HE20)	2412.00	98.36	0.00
NVNT	ANT1	802.11ax(HE20)	2437.00	98.36	0.00
NVNT	ANT1	802.11ax(HE20)	2462.00	98.36	0.00
NVNT	ANT1	802.11n(HT40)	2422.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2437.00	96.88	0.14
NVNT	ANT1	802.11n(HT40)	2452.00	90.63	0.43
NVNT	ANT1	802.11ax(HE40)	2422.00	93.75	0.28
NVNT	ANT1	802.11ax(HE40)	2437.00	96.88	0.14
NVNT	ANT1	802.11ax(HE40)	2452.00	93.75	0.28



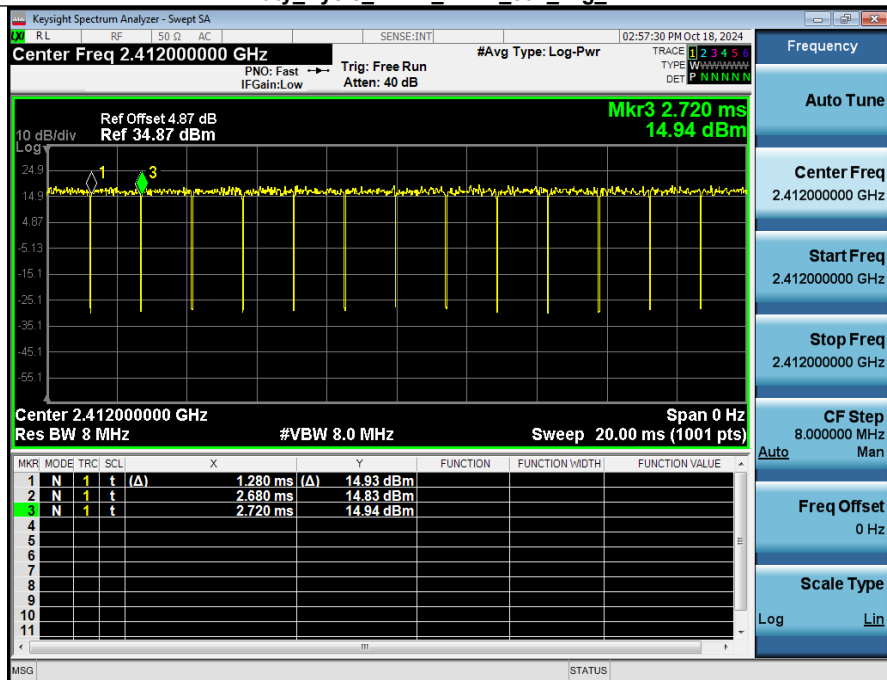
Duty Cycle NVNT_ANT1_802_11b_2437



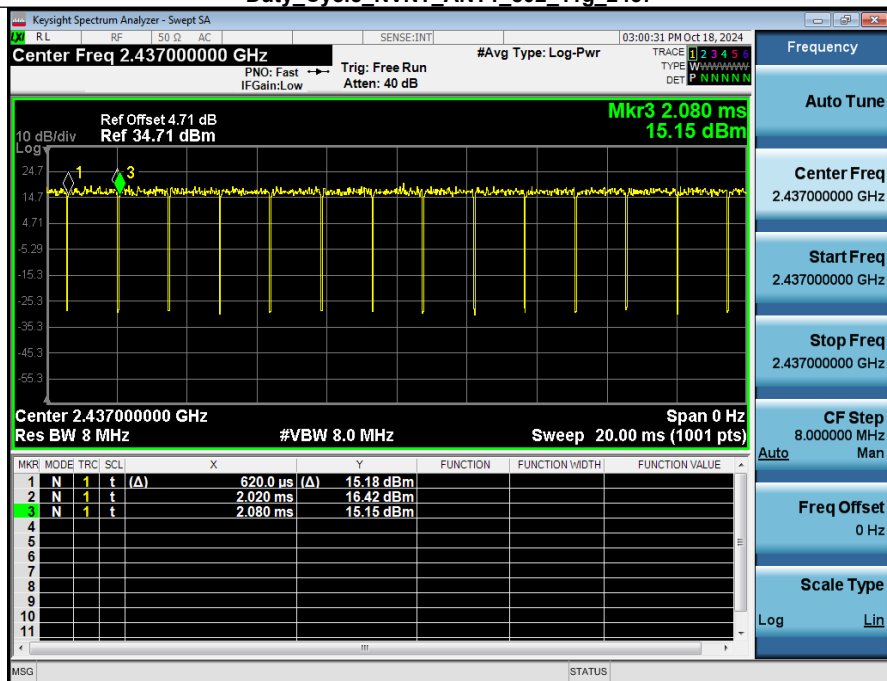
Duty Cycle NVNT_ANT1_802_11b_2462



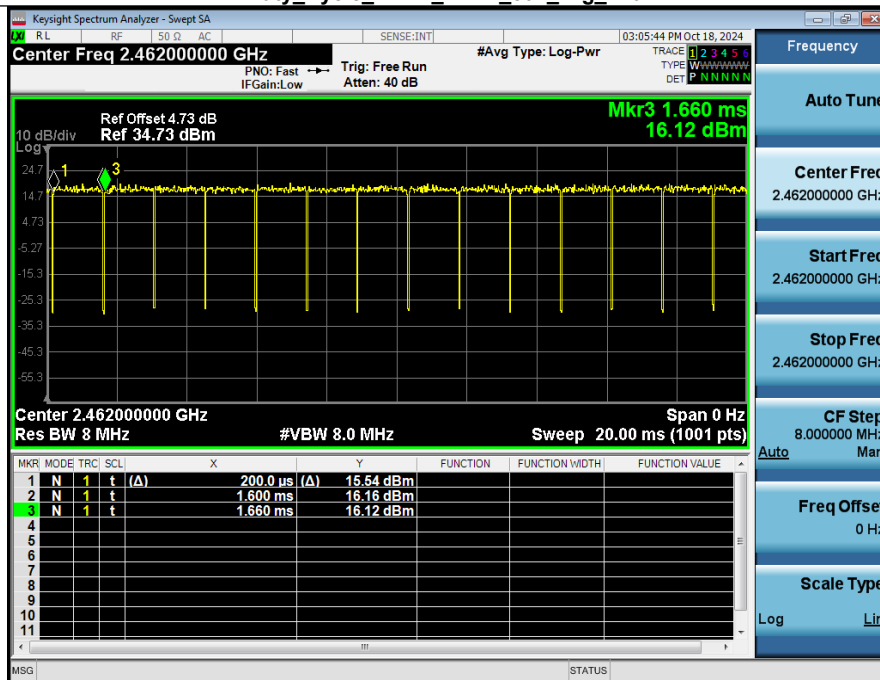
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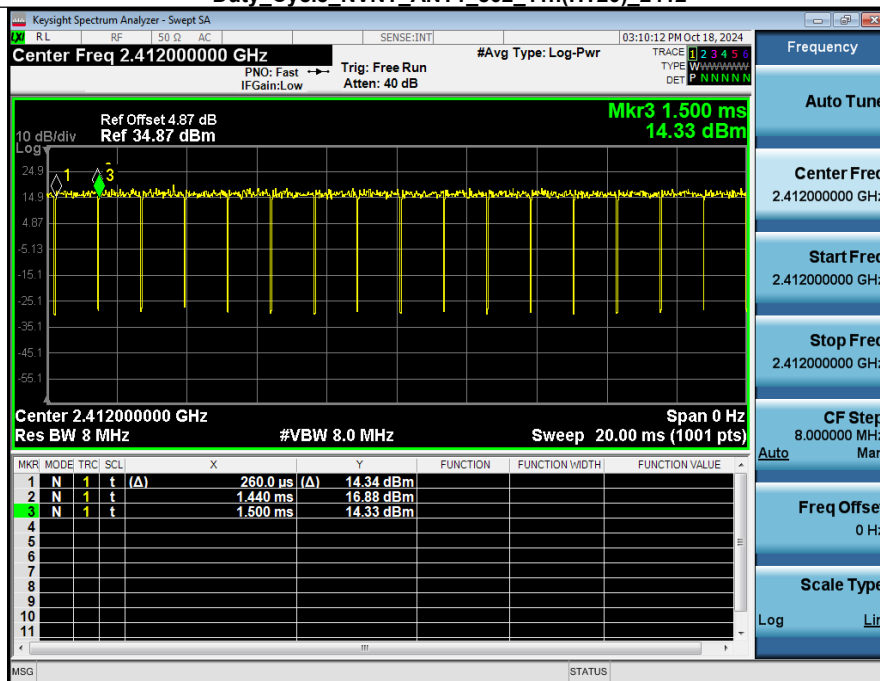
Duty Cycle NVNT_ANT1_802_11g_2437



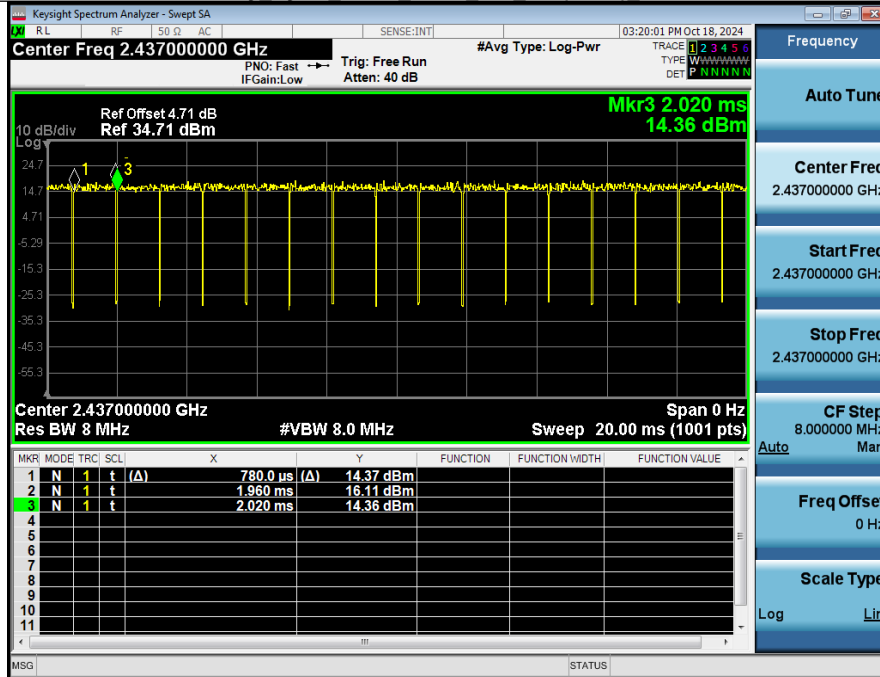
Duty Cycle NVNT_ANT1_802_11g_2462



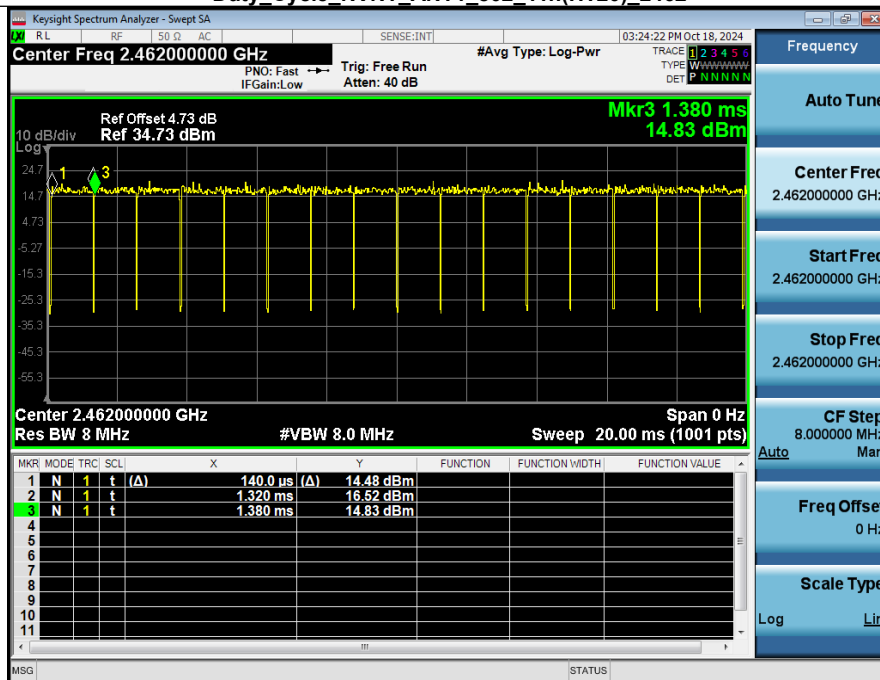
Duty Cycle NVNT_ANT1_802_11n(HT20)_2412



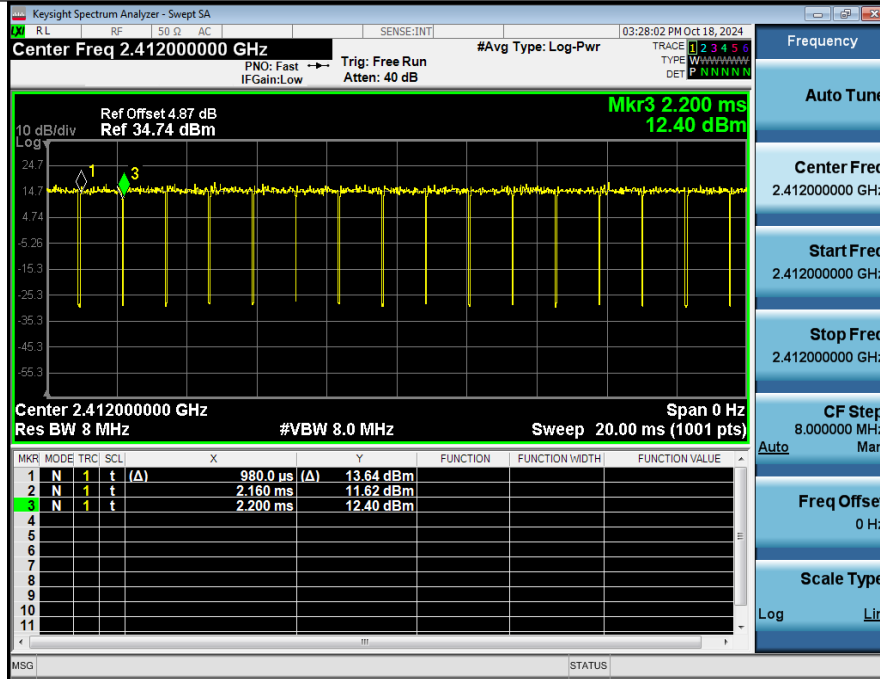
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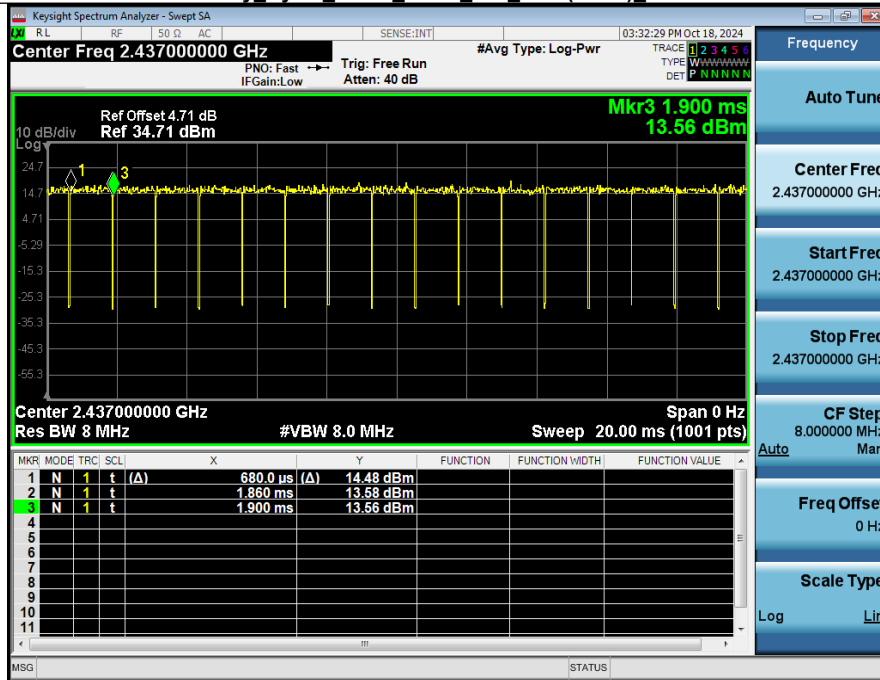
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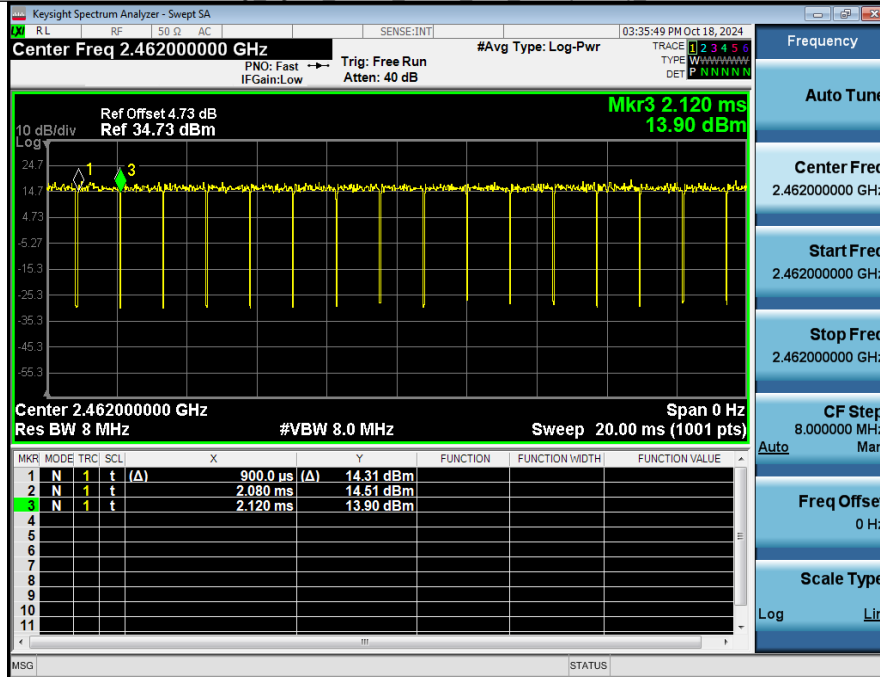
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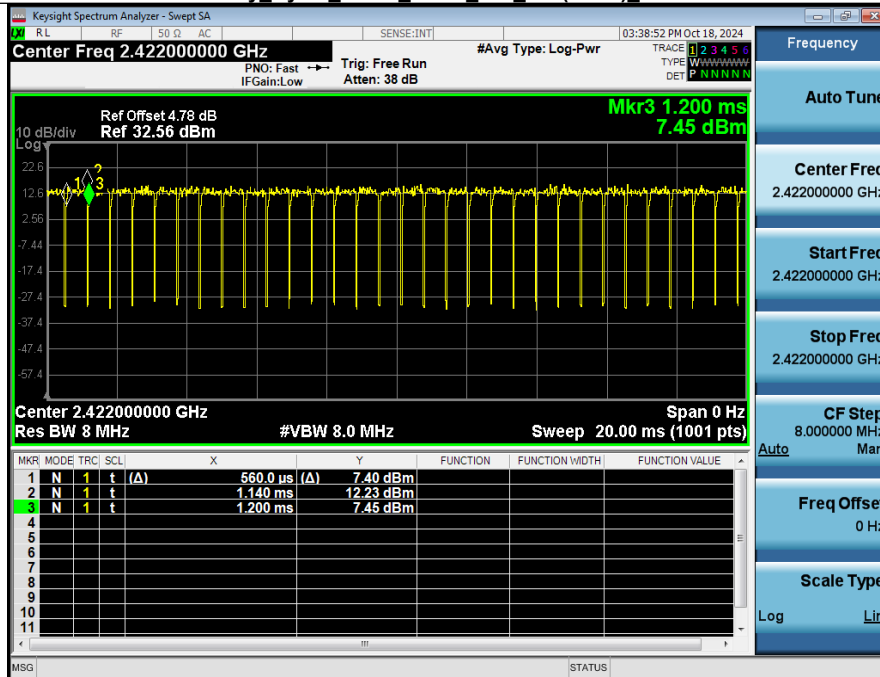
Duty Cycle NVNT_ANT1_802_11ax(HE20)_2437



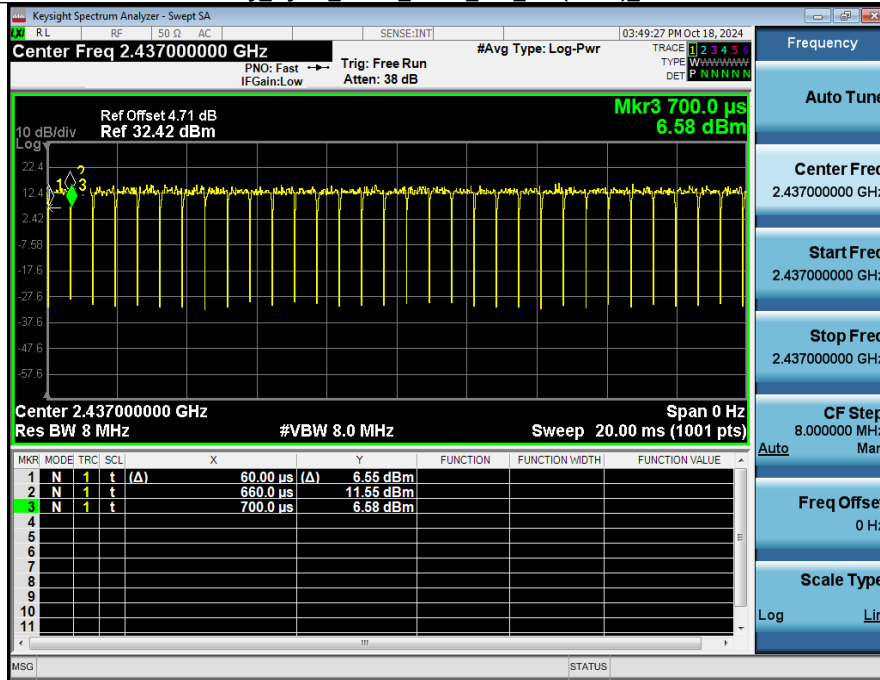
Duty Cycle_NVNT_ANT1_802_11ax(HE20)_2462



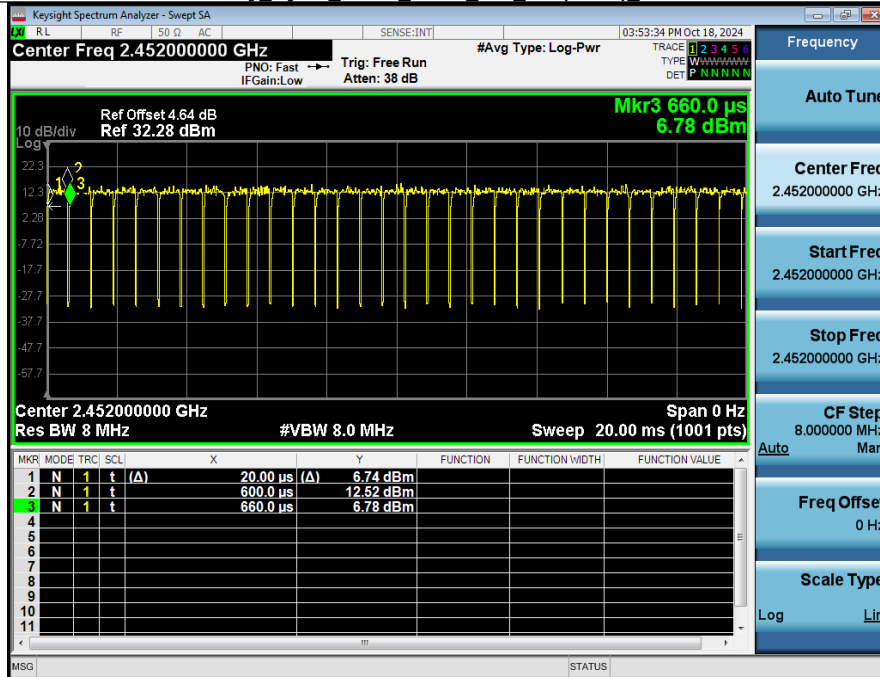
Duty Cycle_NVNT_ANT1_802_11n(HT40)_2422



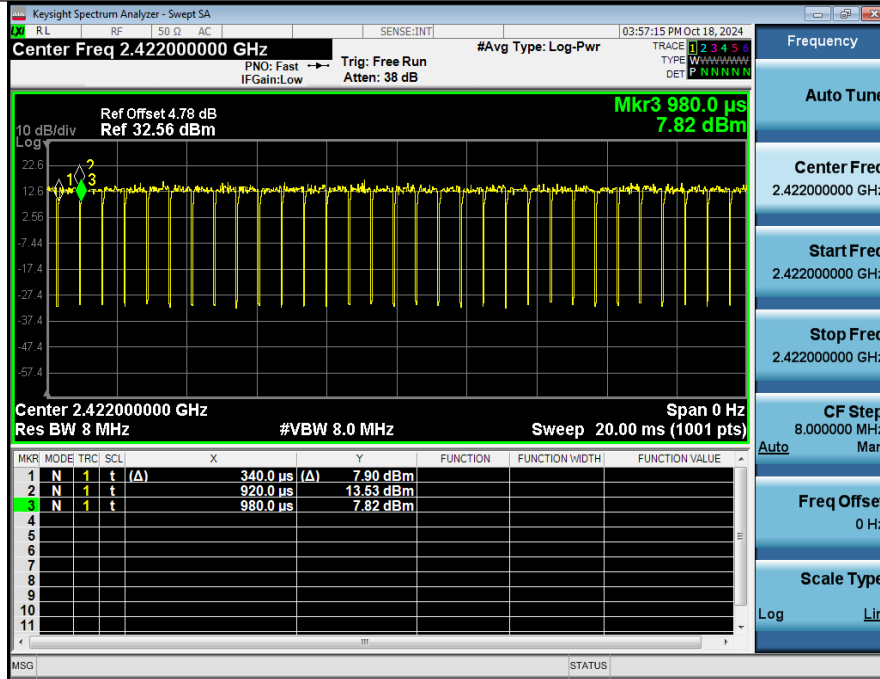
Duty Cycle NVNT_ANT1_802_11n(HT40)_2437



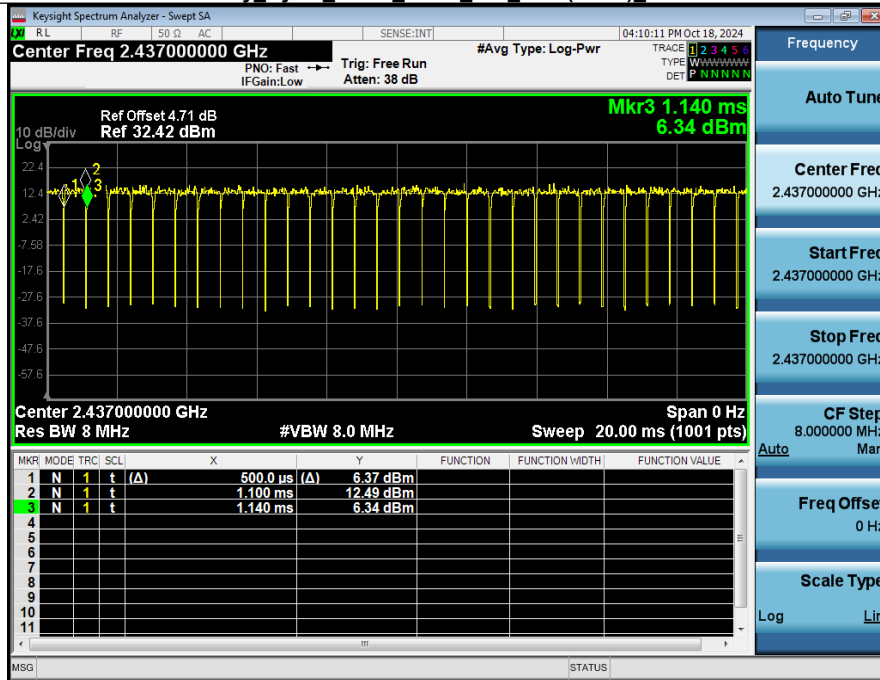
Duty Cycle NVNT_ANT1_802_11n(HT40)_2452



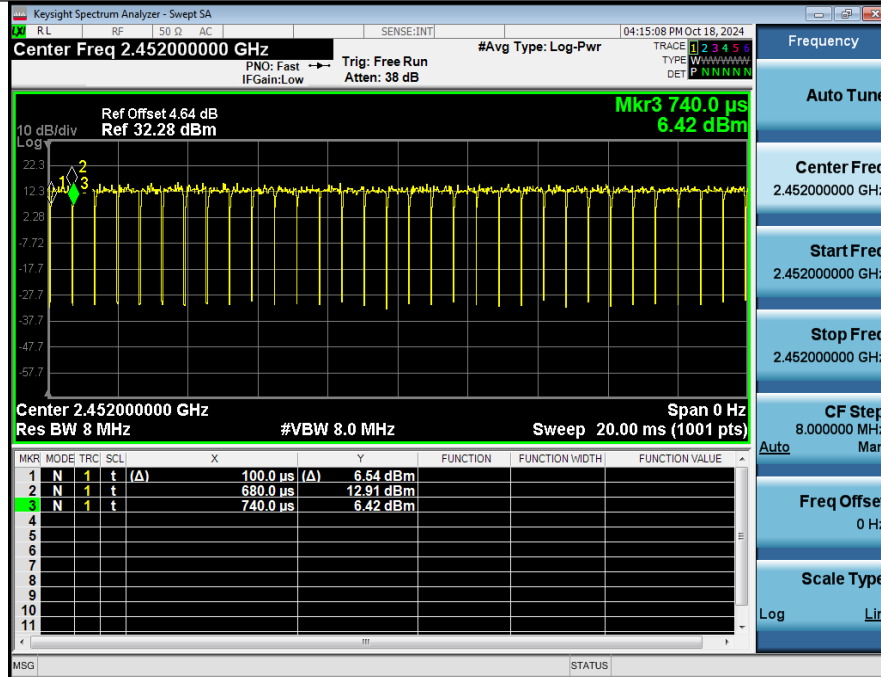
Duty Cycle NVNT_ANT1_802_11ax(HE40)_2422



Duty Cycle NVNT_ANT1_802_11ax(HE40)_2437



Duty Cycle NVNT_ANT1_802_11ax(HE40)_2452



5. Power Spectral Density

Condition	Antenn a	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3k Hz)	Result
NVNT	ANT1	802.11b	2412.00	1.98	-10.00	-8.02	8	Pass
NVNT	ANT1	802.11b	2437.00	1.51	-10.00	-8.49	8	Pass
NVNT	ANT1	802.11b	2462.00	3.47	-10.00	-6.53	8	Pass
NVNT	ANT1	802.11g	2412.00	-2.56	-10.00	-12.56	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.77	-10.00	-11.77	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.95	-10.00	-11.95	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-3.59	-10.00	-13.59	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-3.48	-10.00	-13.48	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-2.61	-10.00	-12.61	8	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	-4.65	-10.00	-14.65	8	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	-3.55	-10.00	-13.55	8	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	-3.71	-10.00	-13.71	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-6.61	-10.00	-16.61	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-6.77	-10.00	-16.77	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-6.49	-10.00	-16.49	8	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	-6.73	-10.00	-16.73	8	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	-6.33	-10.00	-16.33	8	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	-6.45	-10.00	-16.45	8	Pass



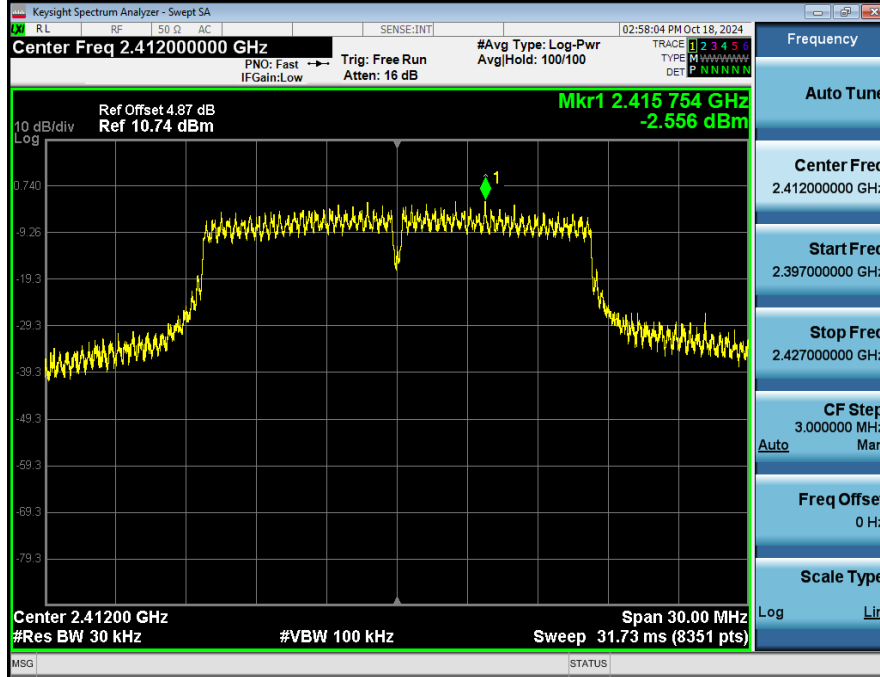
Power Spectral Density_NVNT_ANT1_802_11b_2437



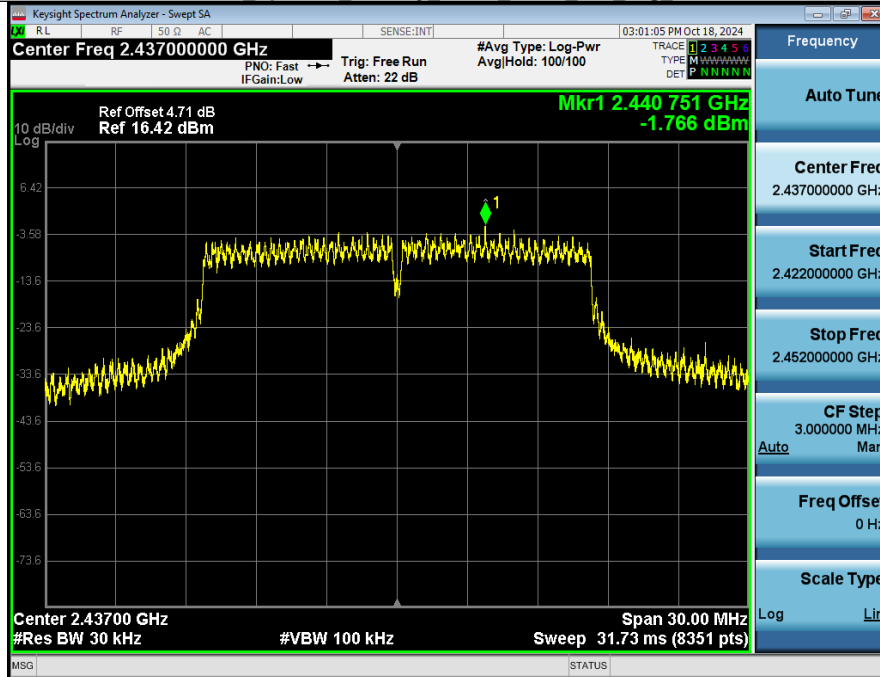
Power Spectral Density_NVNT_ANT1_802_11b_2462



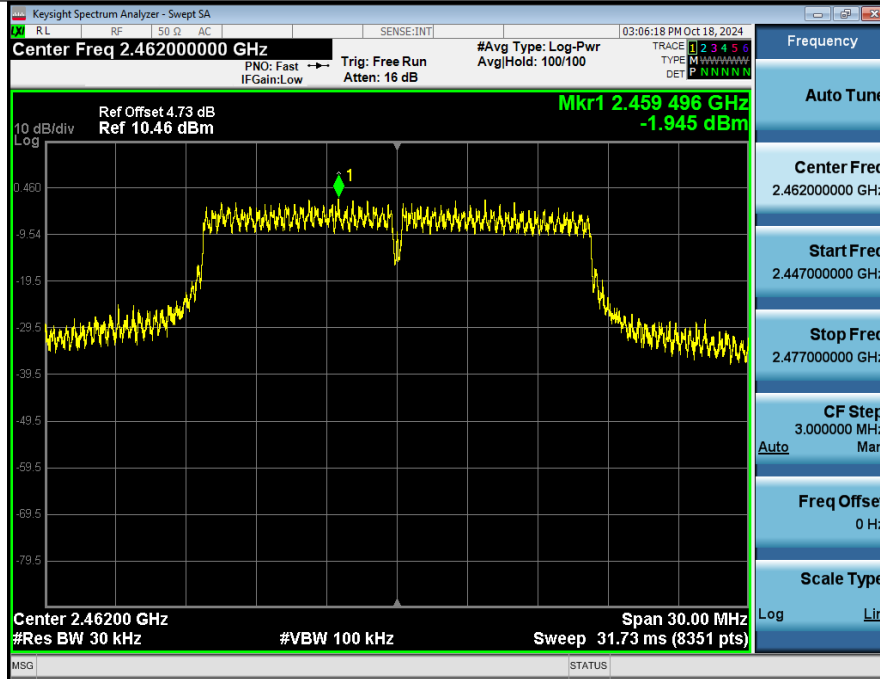
Power Spectral Density NVNT_ANT1_802_11g_2412



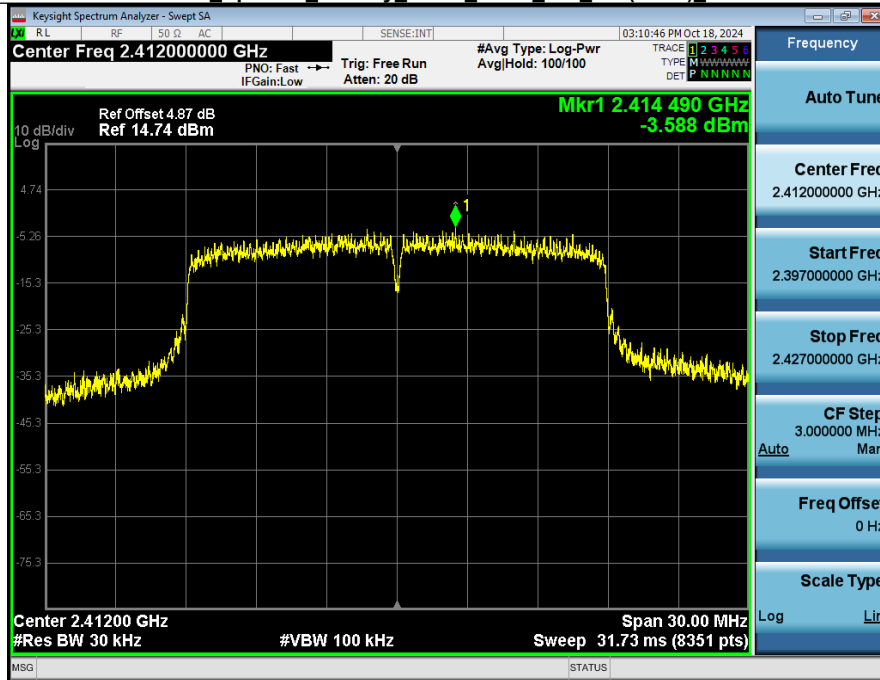
Power Spectral Density NVNT_ANT1_802_11g_2437



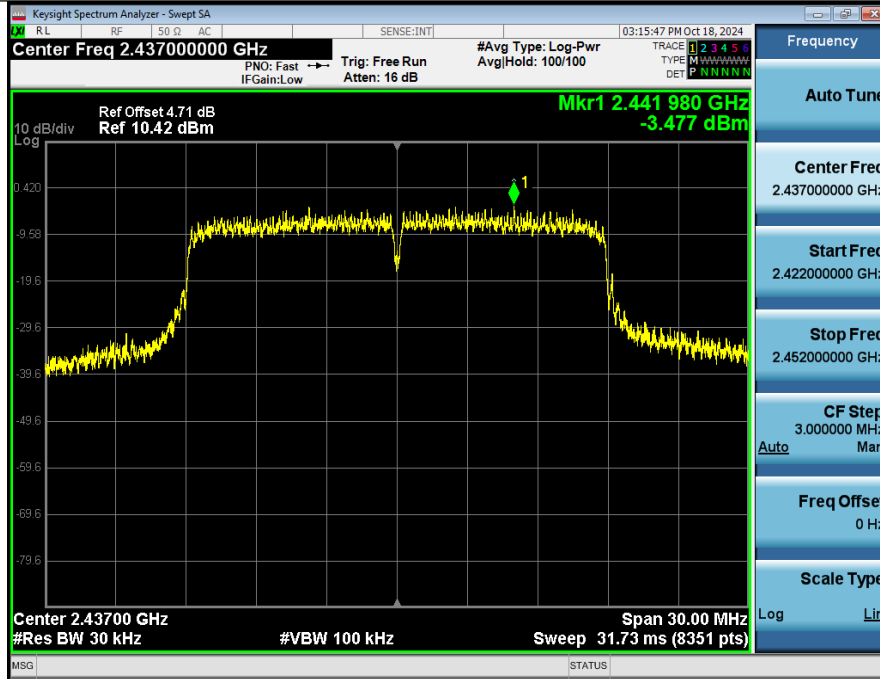
Power Spectral Density_NVNT_ANT1_802_11g_2462



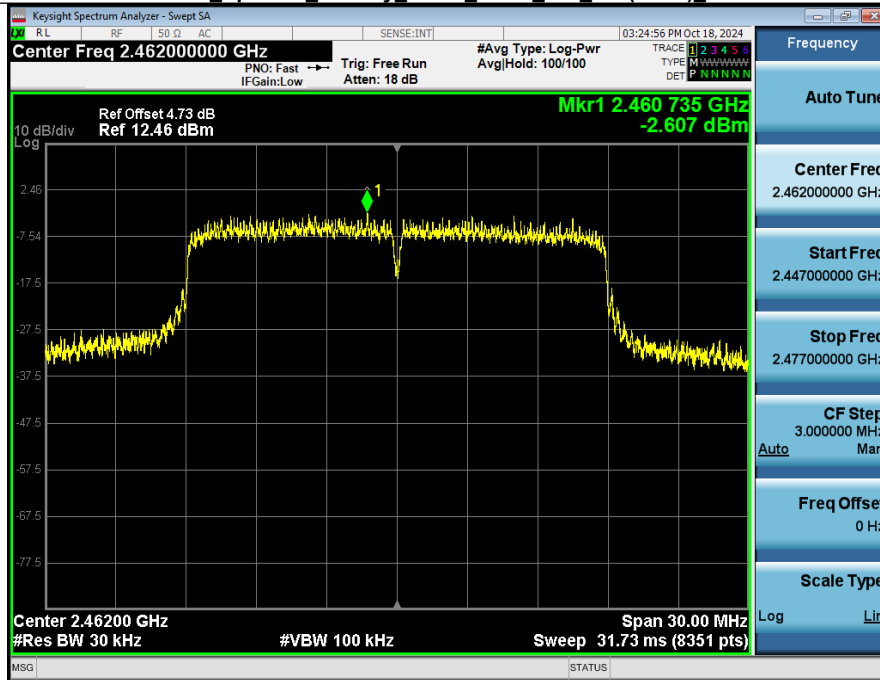
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2412



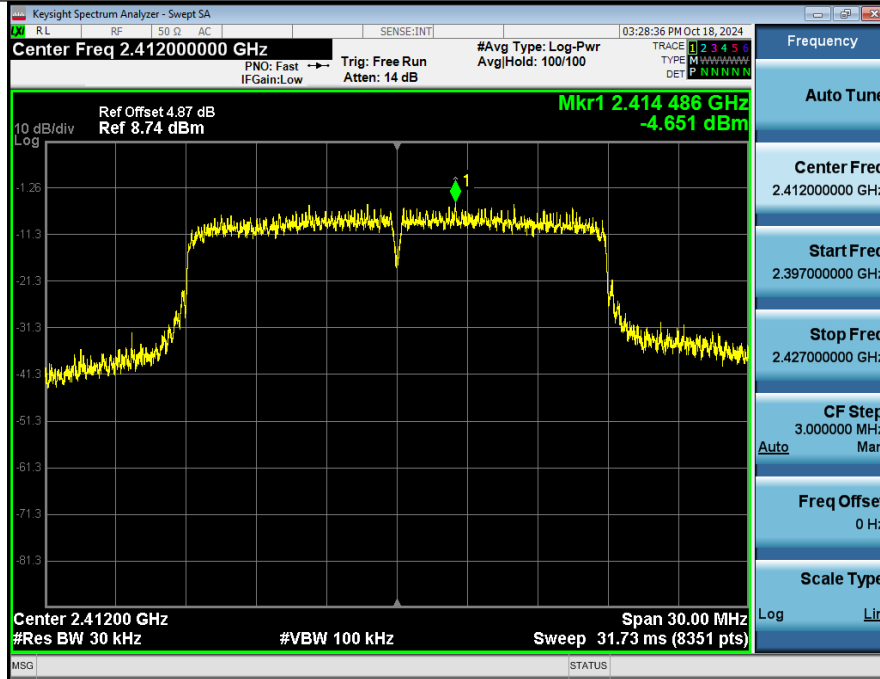
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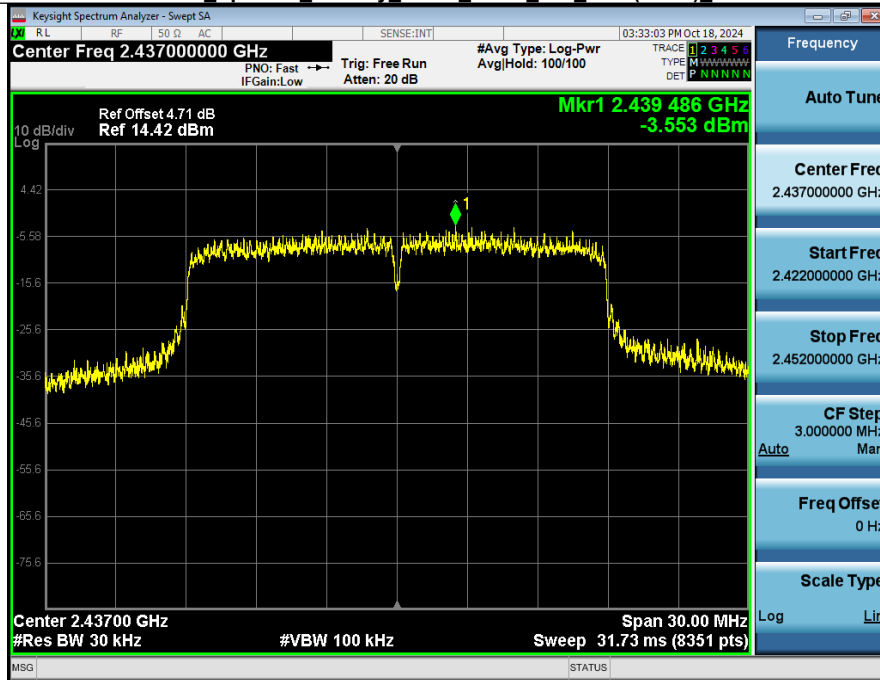
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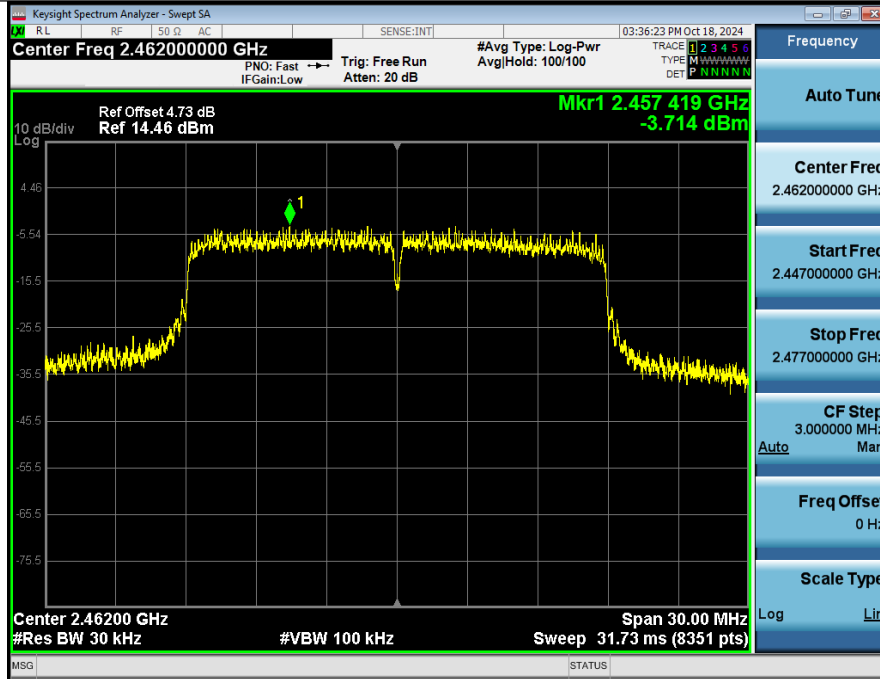
Power Spectral Density NVNT_ANT1_802_11ax(HE20)_2412



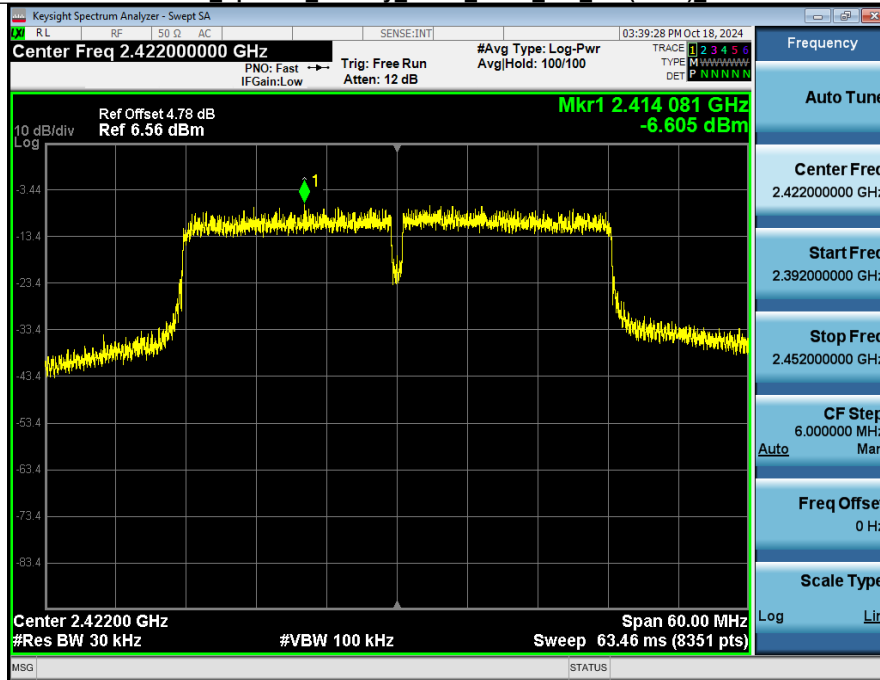
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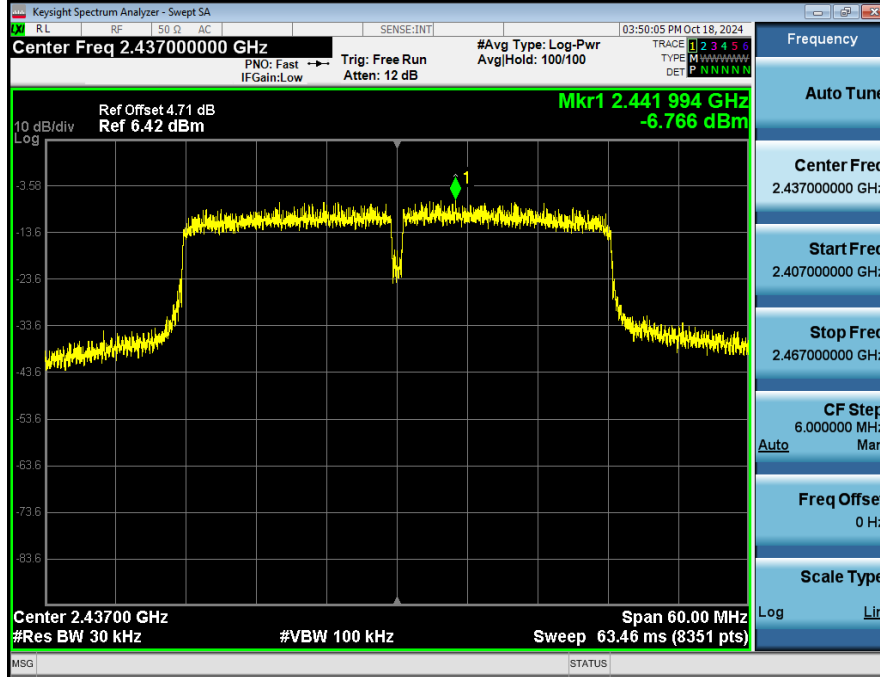
Power Spectral Density NVNT_ANT1_802_11ax(HE20)_2462



Power Spectral Density NVNT_ANT1_802_11n(HT40)_2422



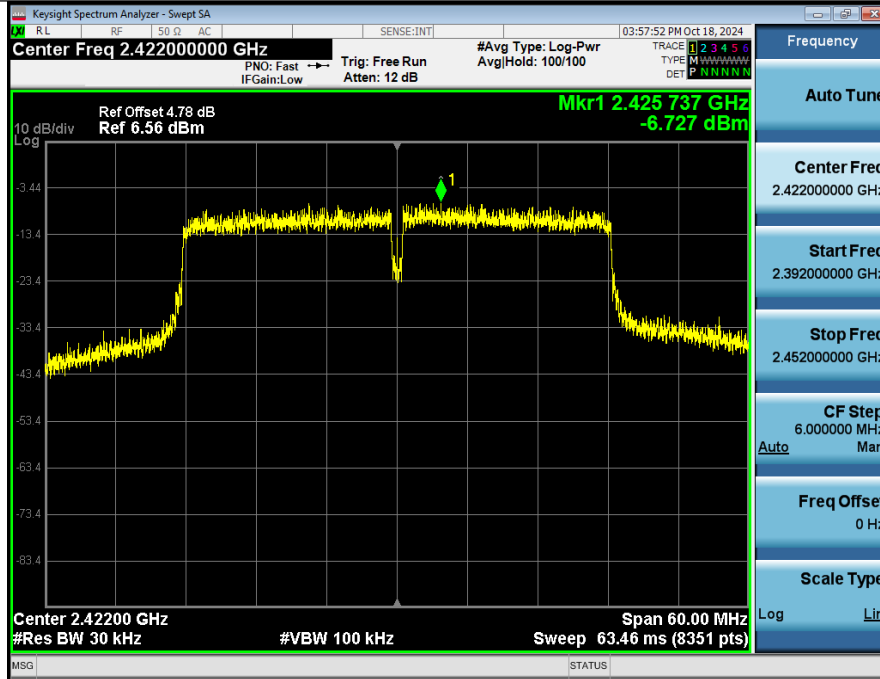
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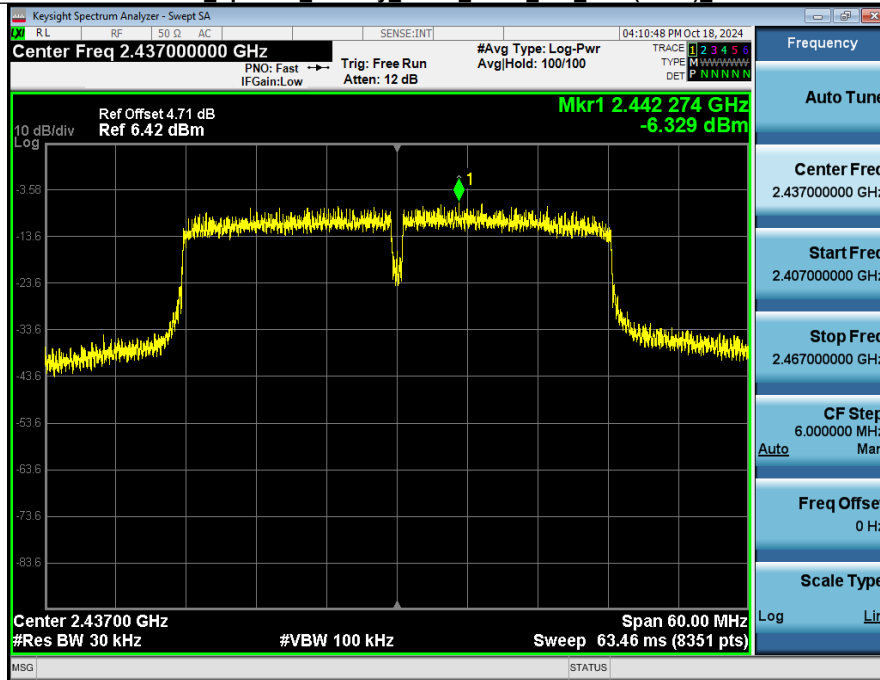
Power Spectral Density NVNT_ANT1_802_11n(HT40)_2452



Power Spectral Density NVNT_ANT1_802_11ax(HE40)_2422



Power Spectral Density NVNT_ANT1_802_11ax(HE40)_2437

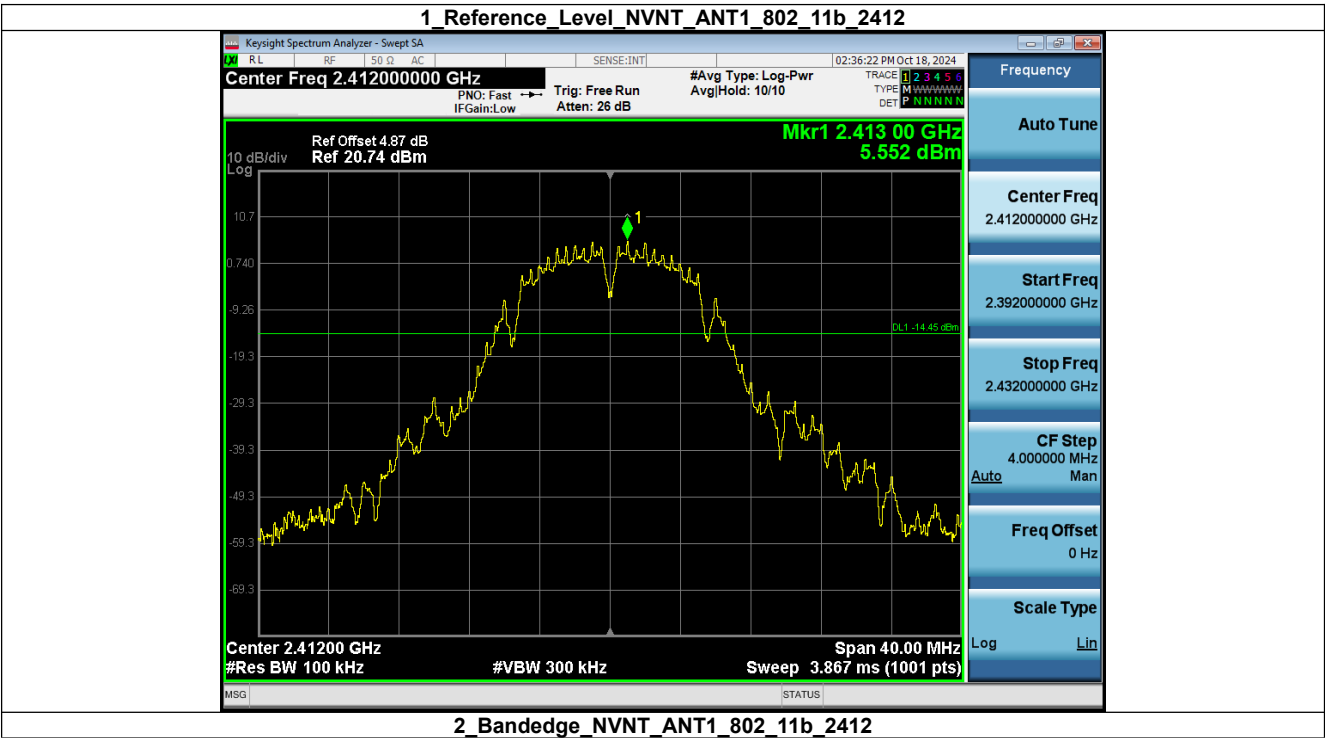


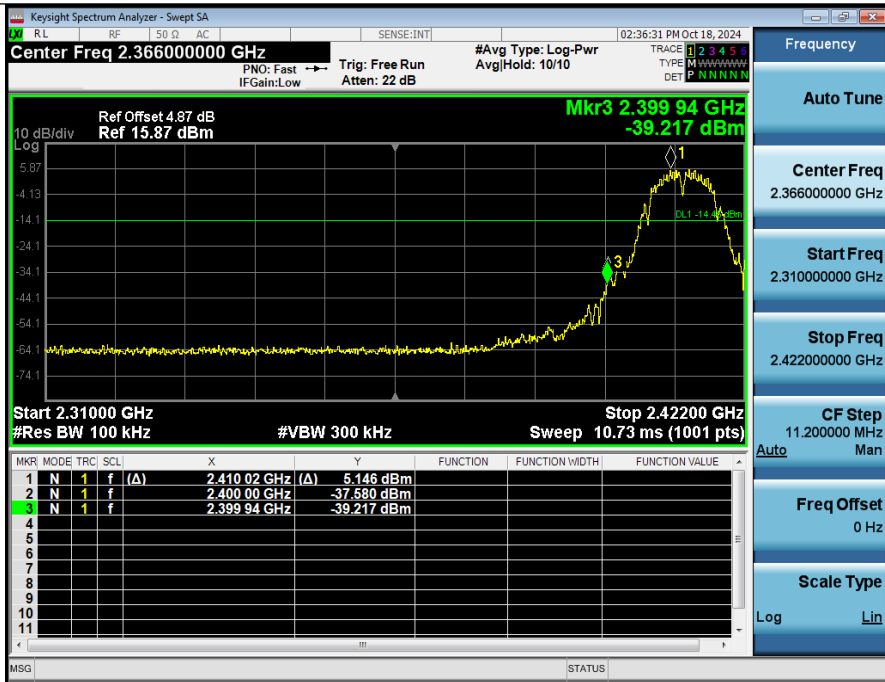
Power Spectral Density NVNT_ANT1_802_11ax(HE40)_2452



6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2399.936	-39.217	-14.448	Pass
NVNT	ANT1	802.11b	2462.00	2484.544	-54.114	-13.764	Pass
NVNT	ANT1	802.11g	2412.00	2399.712	-25.012	-18.429	Pass
NVNT	ANT1	802.11g	2462.00	2483.536	-36.863	-17.072	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	-29.178	-19.086	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.536	-34.446	-18.075	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	2398.928	-30.184	-19.853	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	2483.536	-37.243	-18.643	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2398.572	-31.175	-21.490	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.544	-35.126	-21.612	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	2399.496	-30.357	-21.389	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	2483.544	-36.380	-21.641	Pass





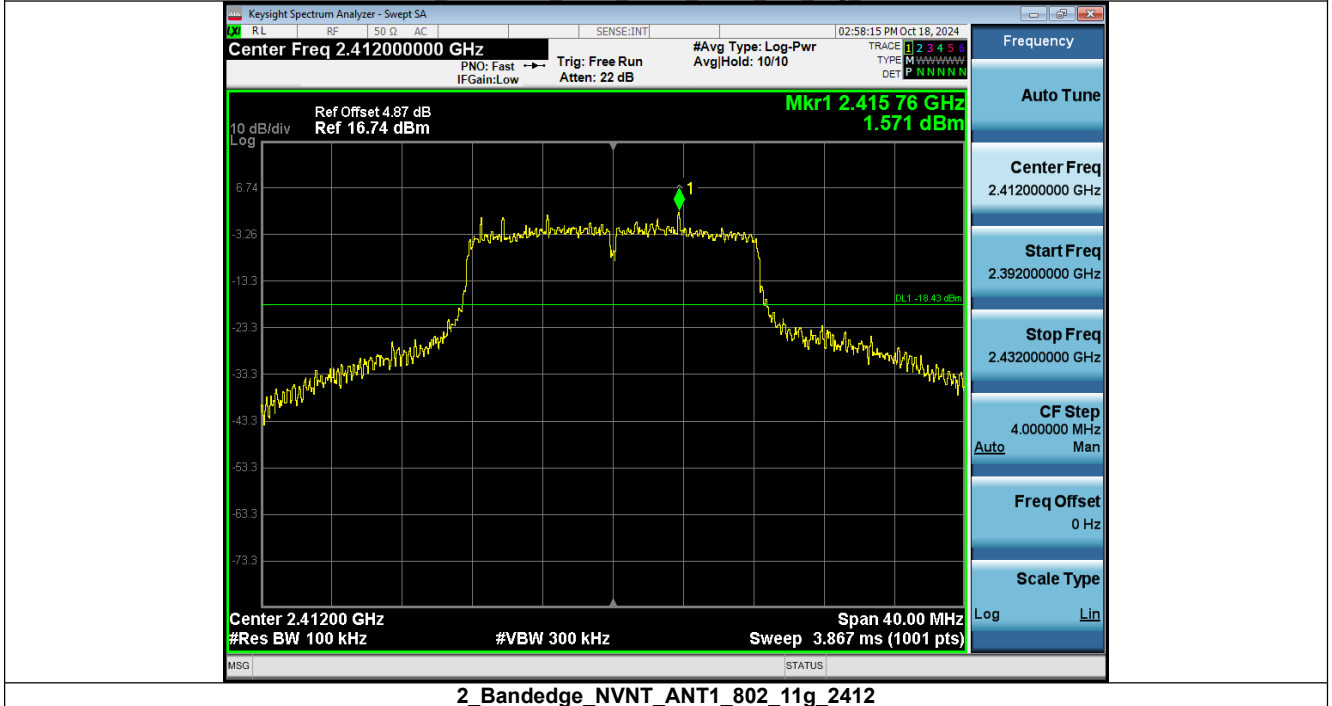
1 Reference Level NVNT_ANT1_802_11b_2462



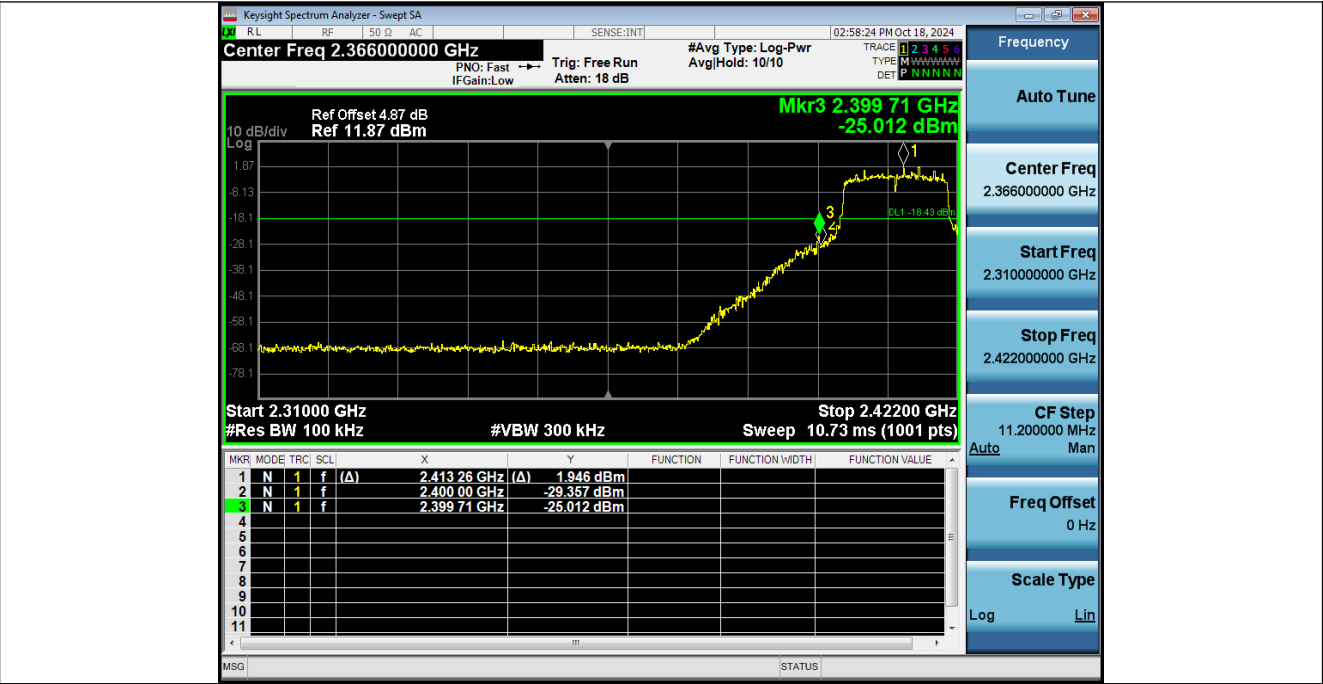
2_Bandedge_NVNT_ANT1_802_11b_2462



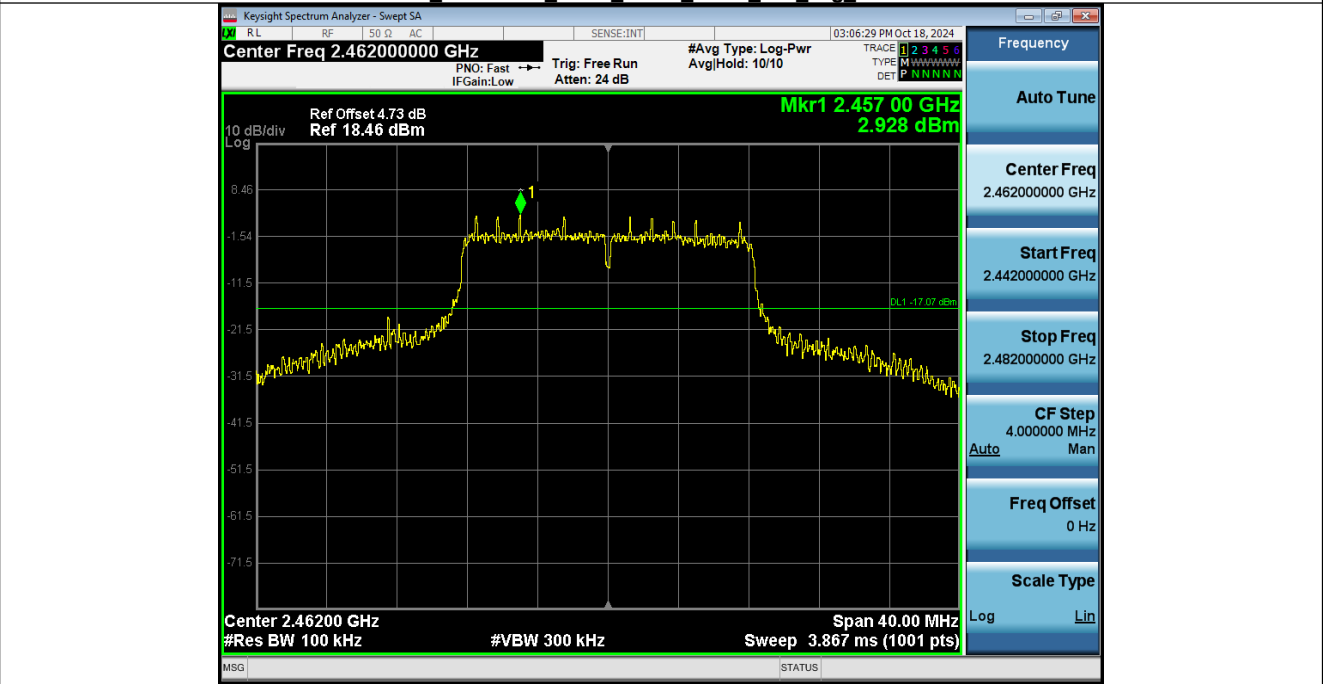
1 Reference Level NVNT_ANT1_802_11g_2412



2 Bandedge_NVNT_ANT1_802_11g_2412



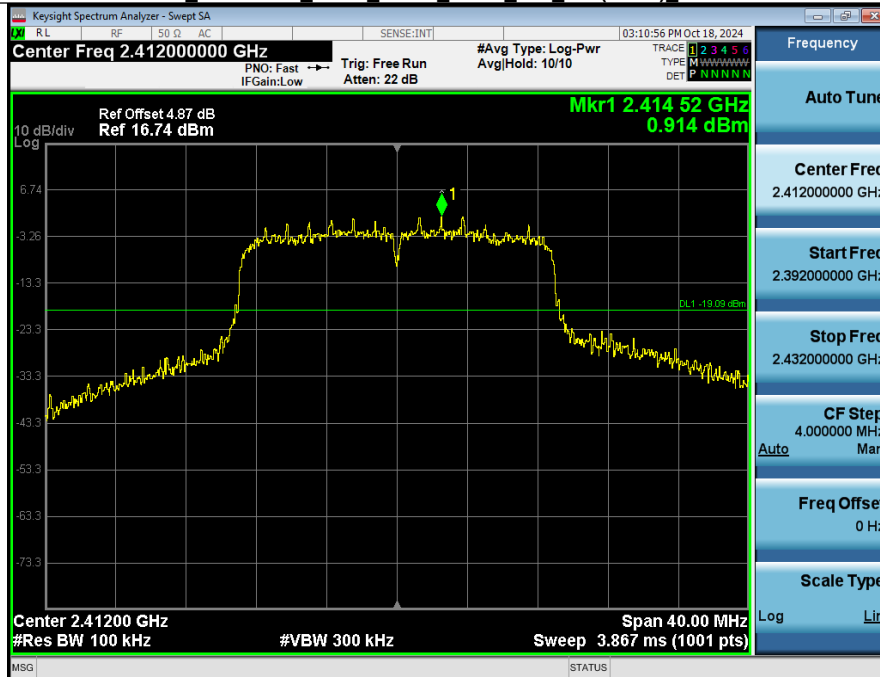
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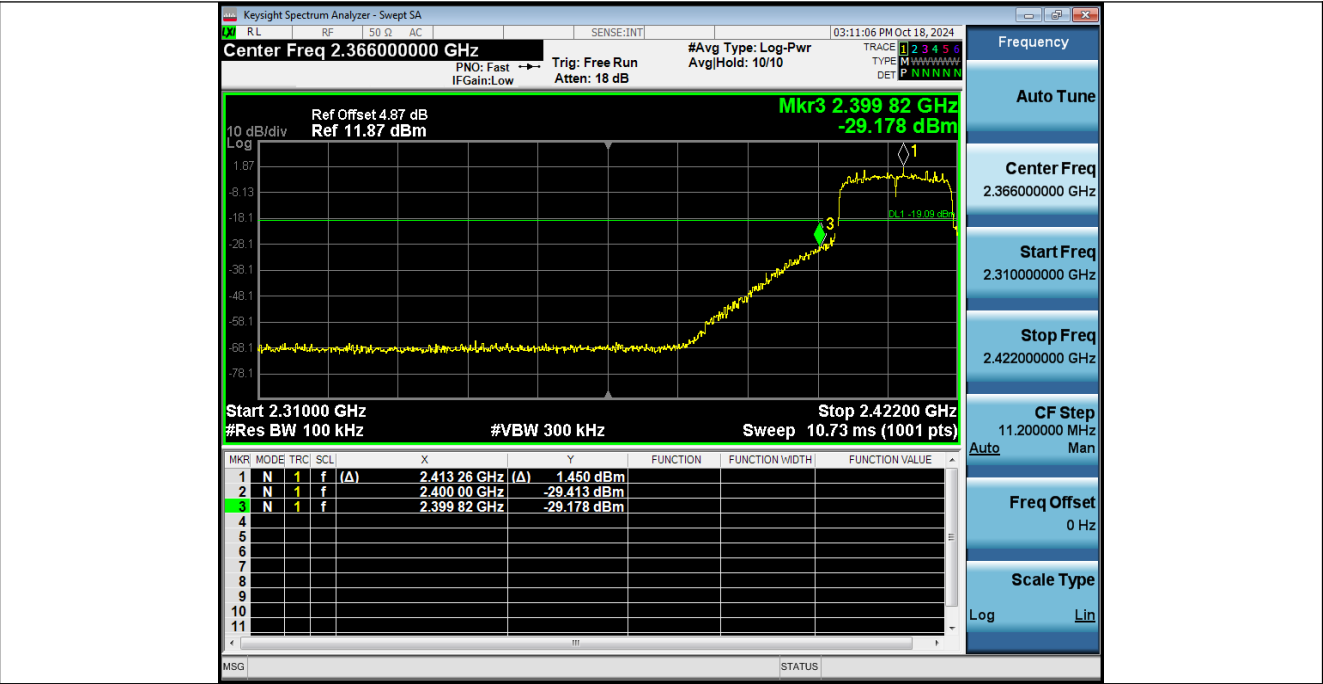
2 Bandedge_NVNT_ANT1_802_11g_2462



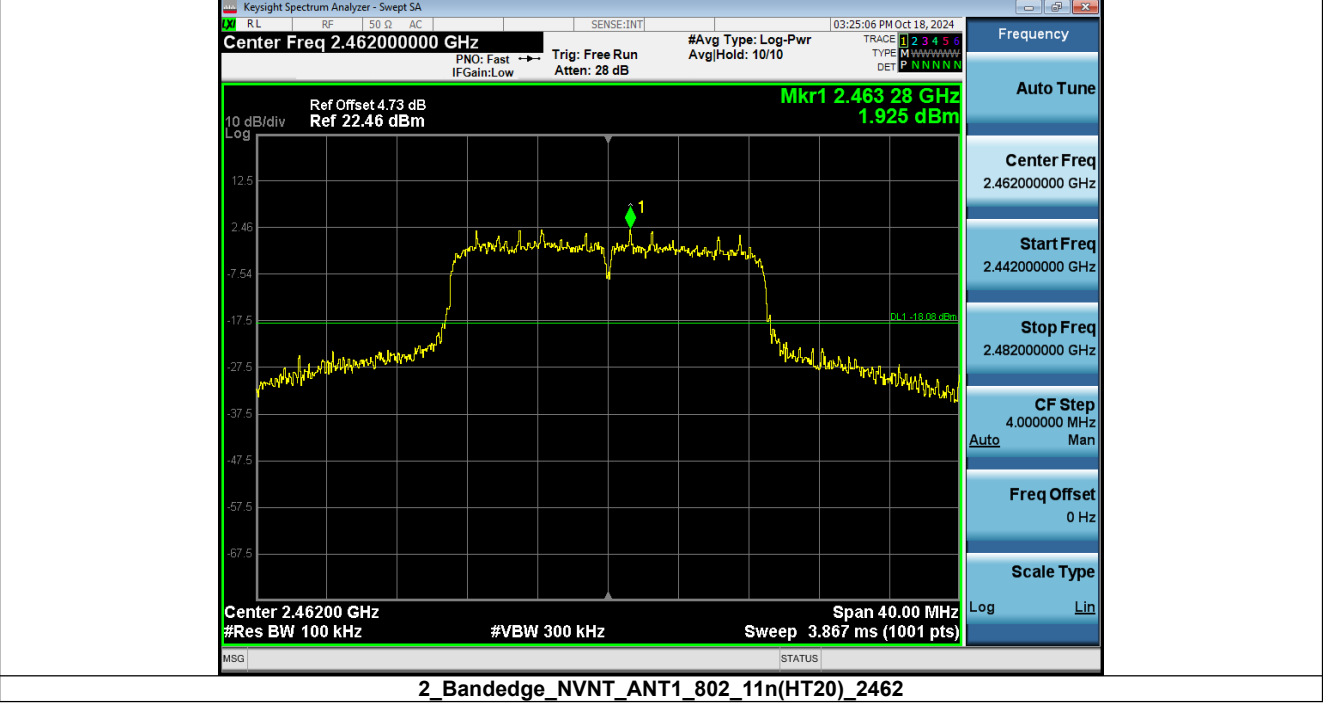
1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



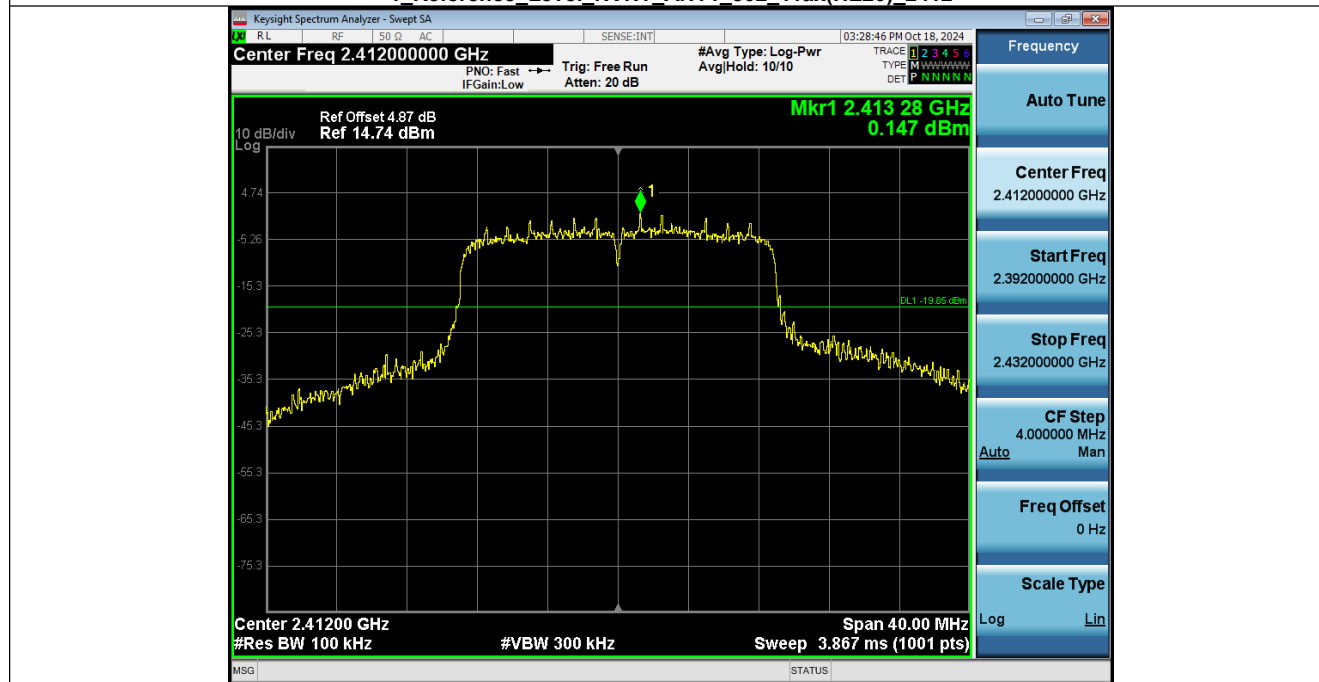
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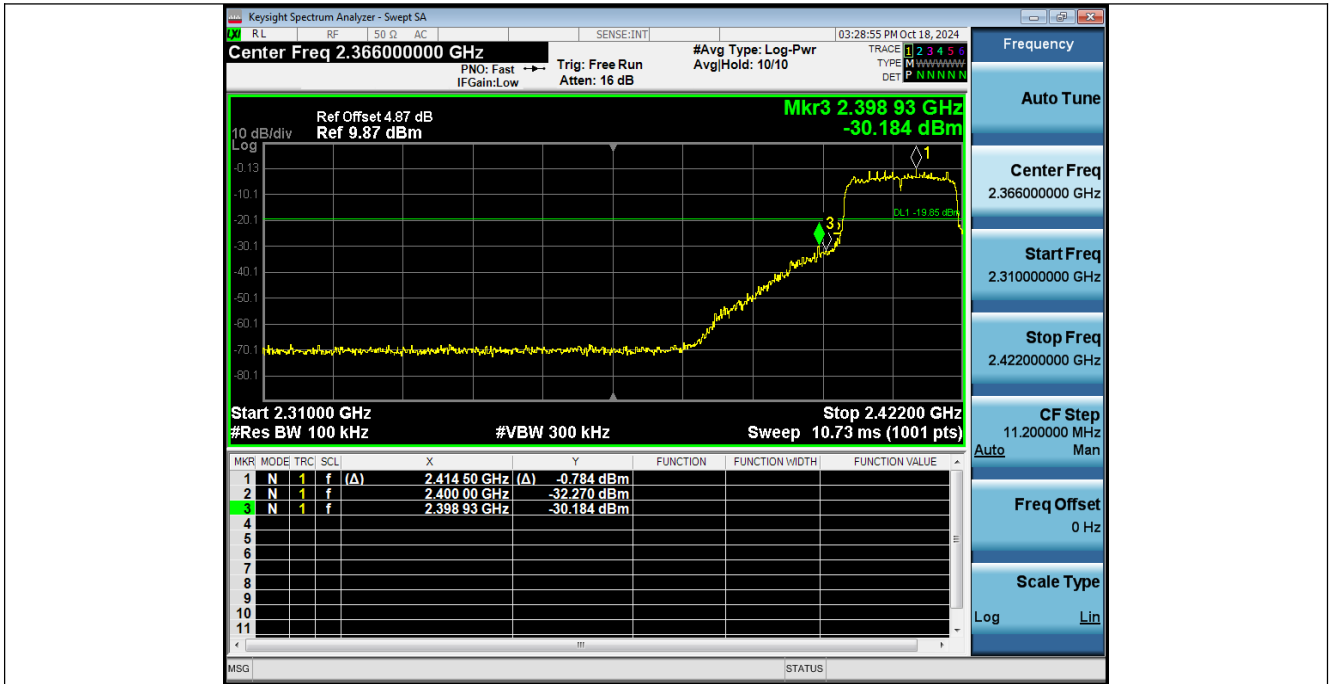
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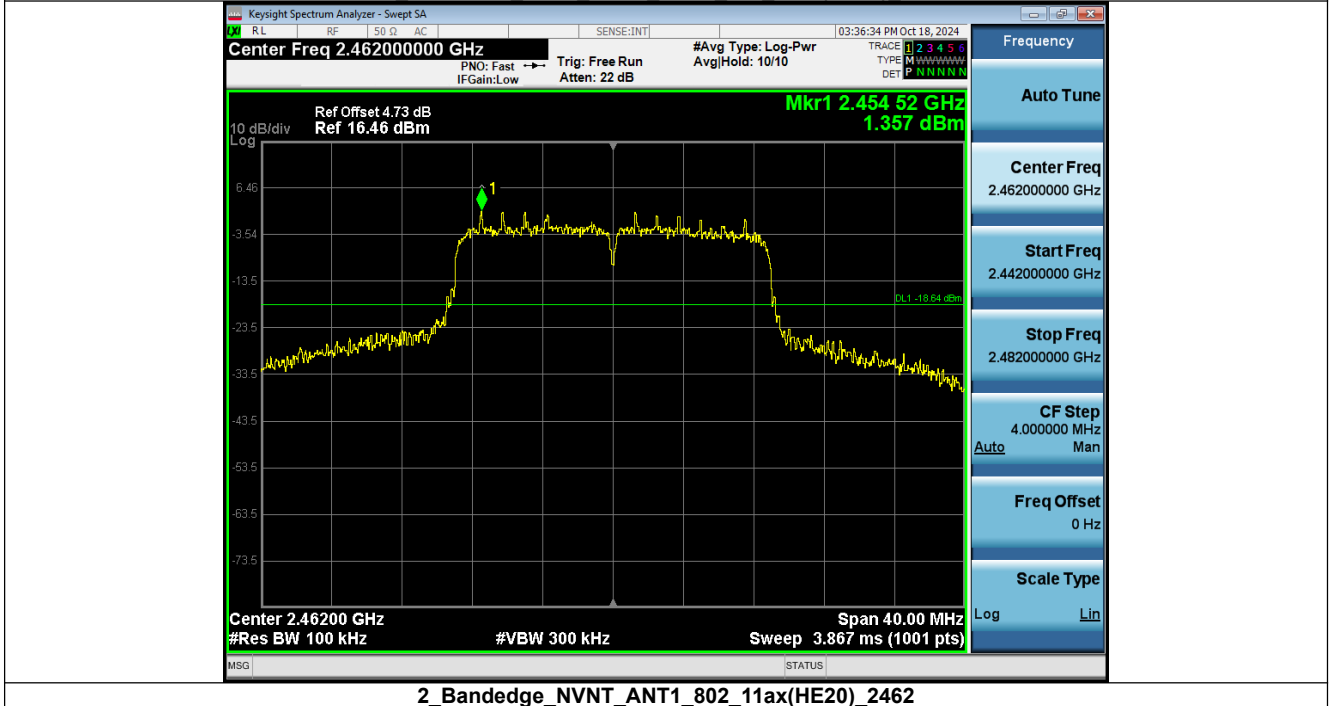
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2412



2_Bandedge_NVNT_ANT1_802_11ax(HE20)_2412



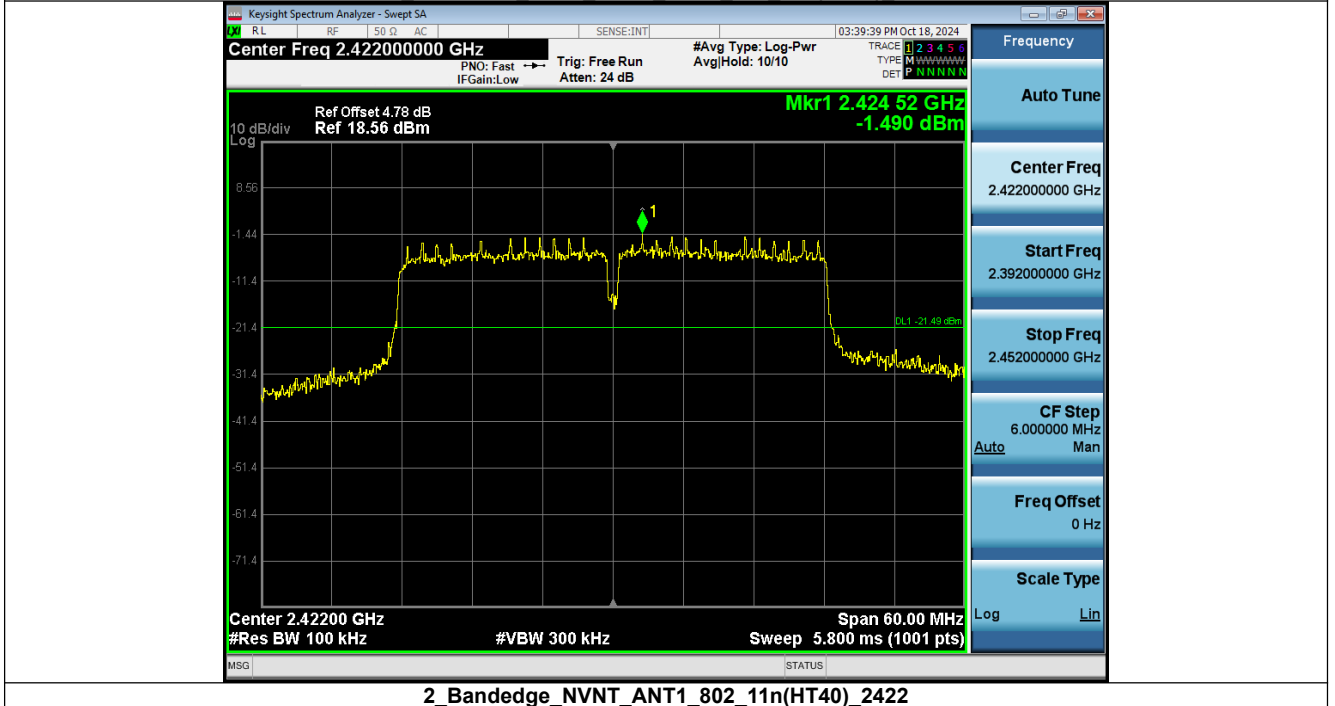
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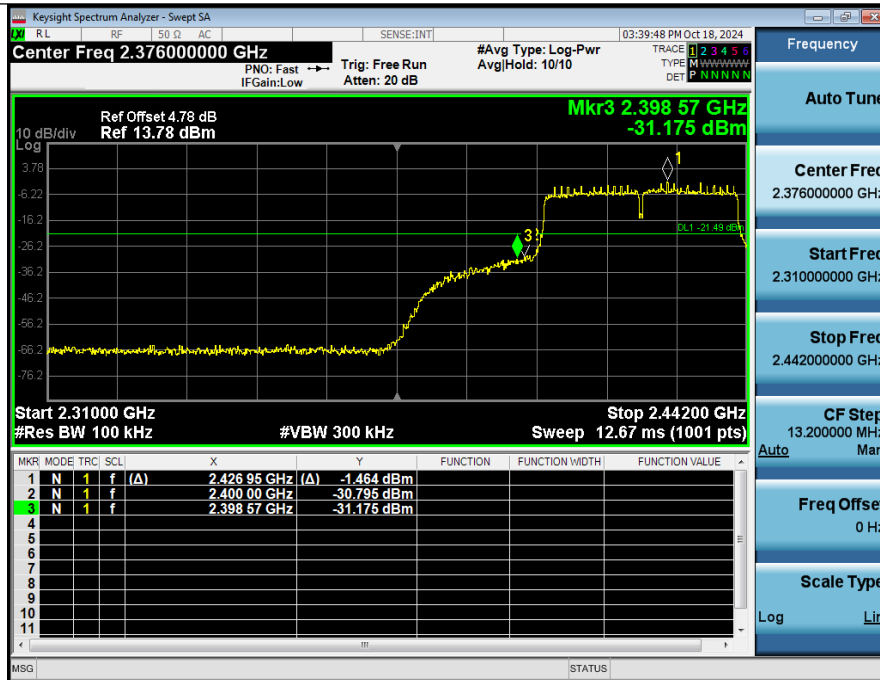
2_Bandedge_NVNT_ANT1_802_11ax(HE20)_2462



1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



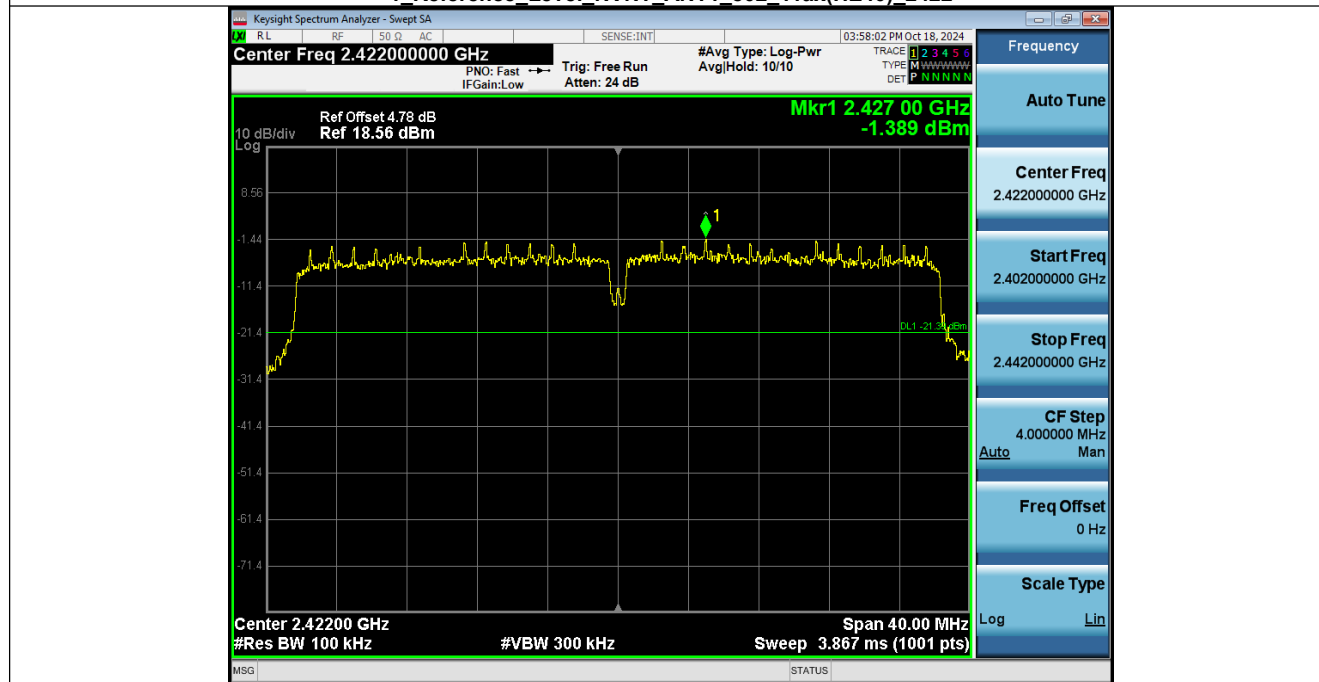
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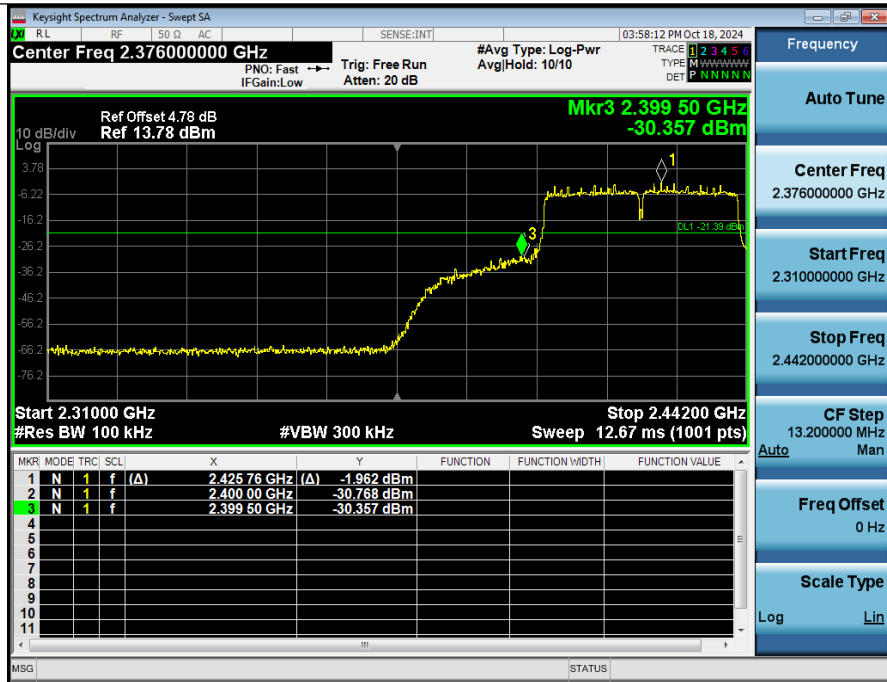
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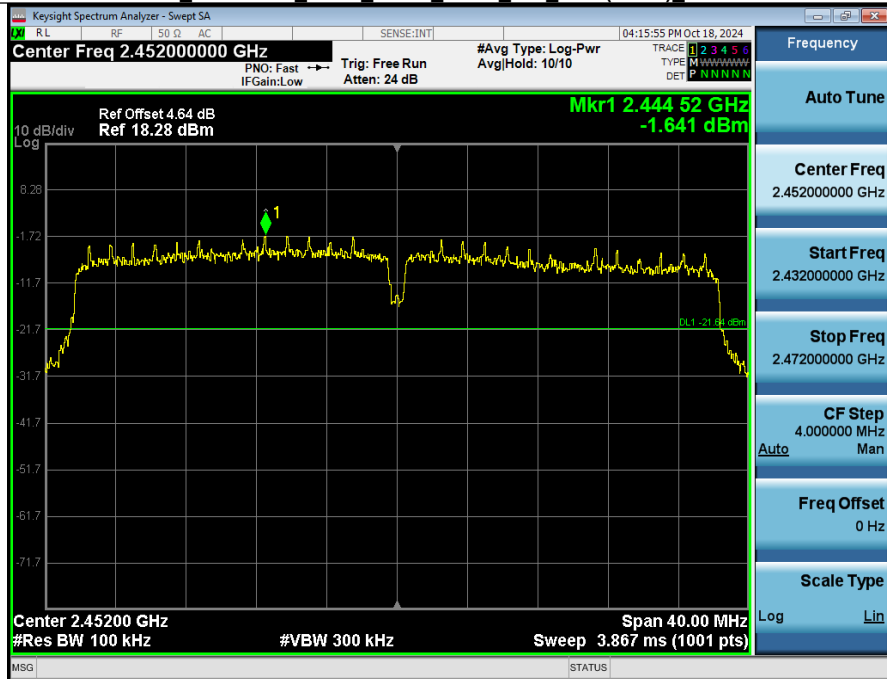
1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2422



2_Bandedge_NVNT_ANT1_802_11ax(HE40)_2422



1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2452



2_Bandedge_NVNT_ANT1_802_11ax(HE40)_2452



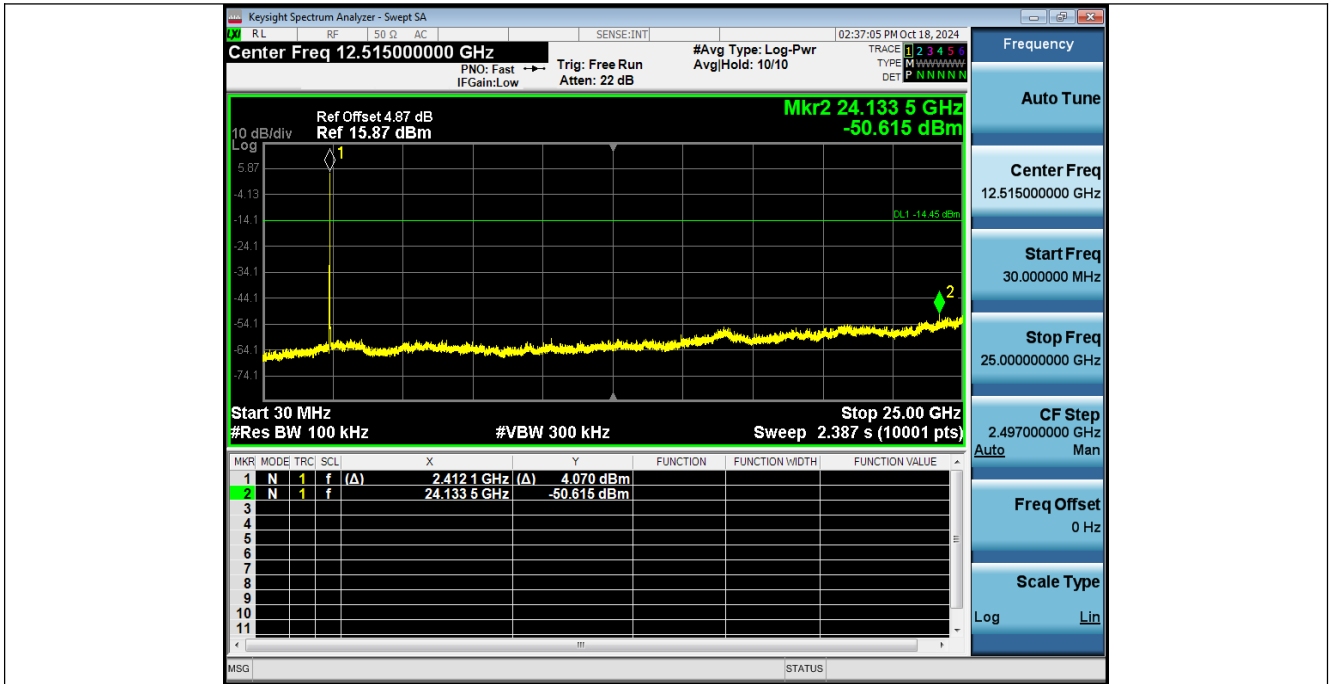
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24133.541	-50.615	-14.448	Pass
NVNT	ANT1	802.11b	2437.00	24975.030	-49.922	-14.679	Pass
NVNT	ANT1	802.11b	2462.00	24925.090	-43.644	-13.764	Pass
NVNT	ANT1	802.11g	2412.00	24907.611	-54.130	-18.429	Pass
NVNT	ANT1	802.11g	2437.00	24782.761	-49.374	-18.102	Pass
NVNT	ANT1	802.11g	2462.00	24440.672	-53.139	-17.072	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	24980.024	-54.597	-19.086	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	24867.659	-51.221	-18.793	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	24977.527	-48.658	-18.075	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	24992.509	-56.317	-19.853	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	24985.018	-54.741	-18.771	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	24982.521	-53.315	-18.643	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	24925.090	-52.982	-21.490	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	24997.503	-53.415	-21.674	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	24970.036	-53.472	-21.612	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	24922.593	-53.261	-21.389	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	24997.503	-52.798	-21.692	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	5198.790	-51.958	-21.641	Pass

1 Reference_Level_NVNT_ANT1_802_11b_2412



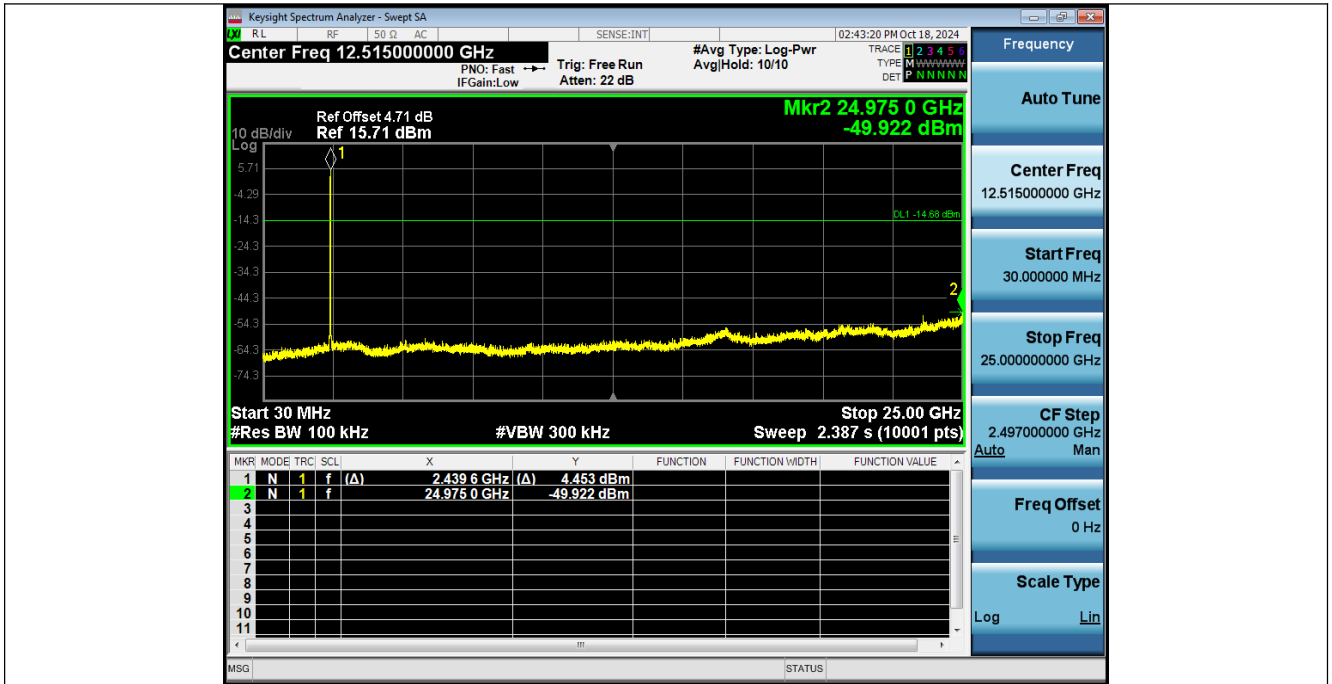
2 Spurious_Emission_NVNT_ANT1_802_11b_2412



1 Reference Level NVNT_ANT1_802_11b_2437



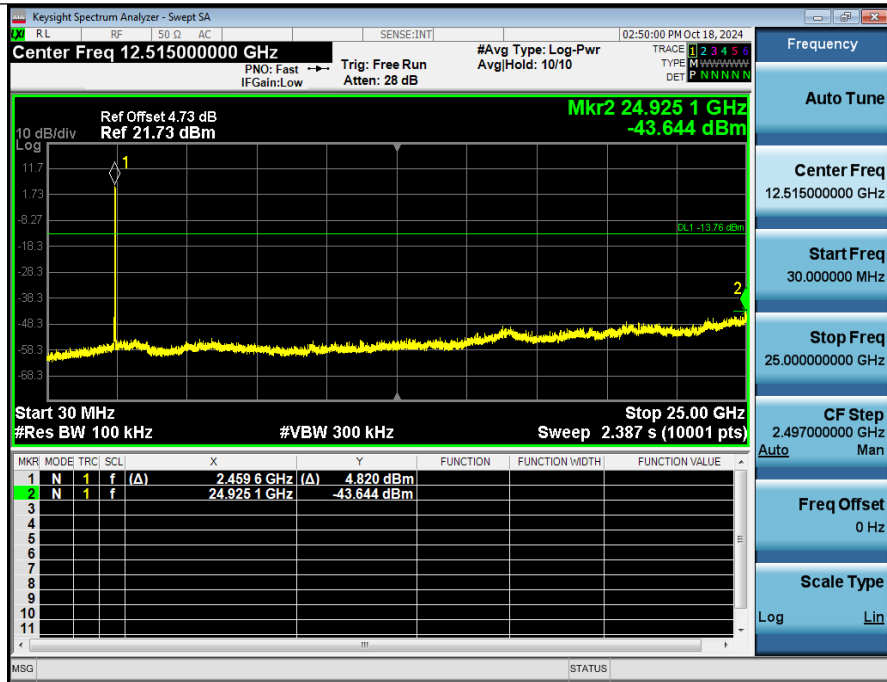
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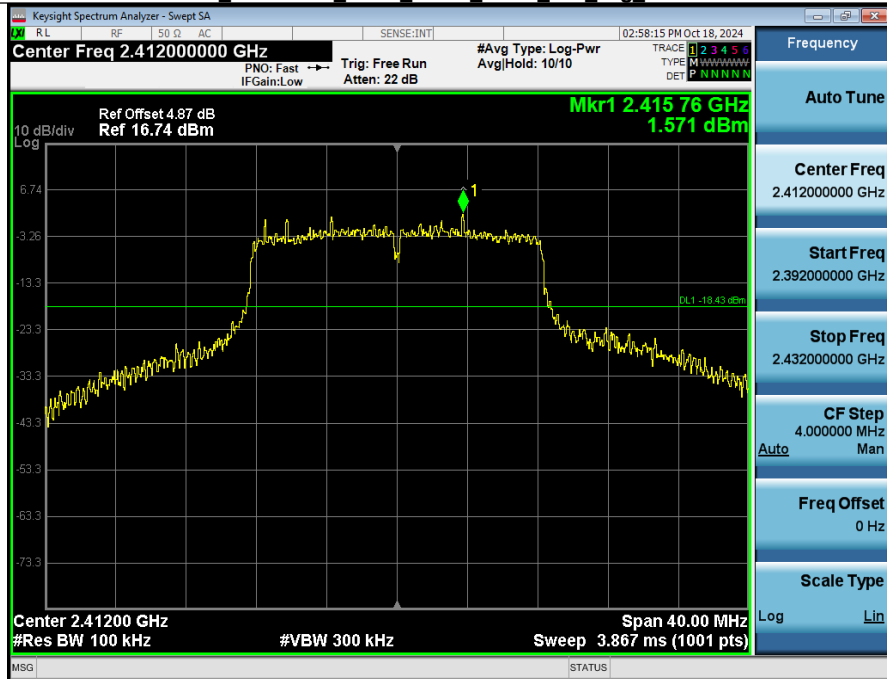
1 Reference Level NVNT_ANT1_802_11b_2462



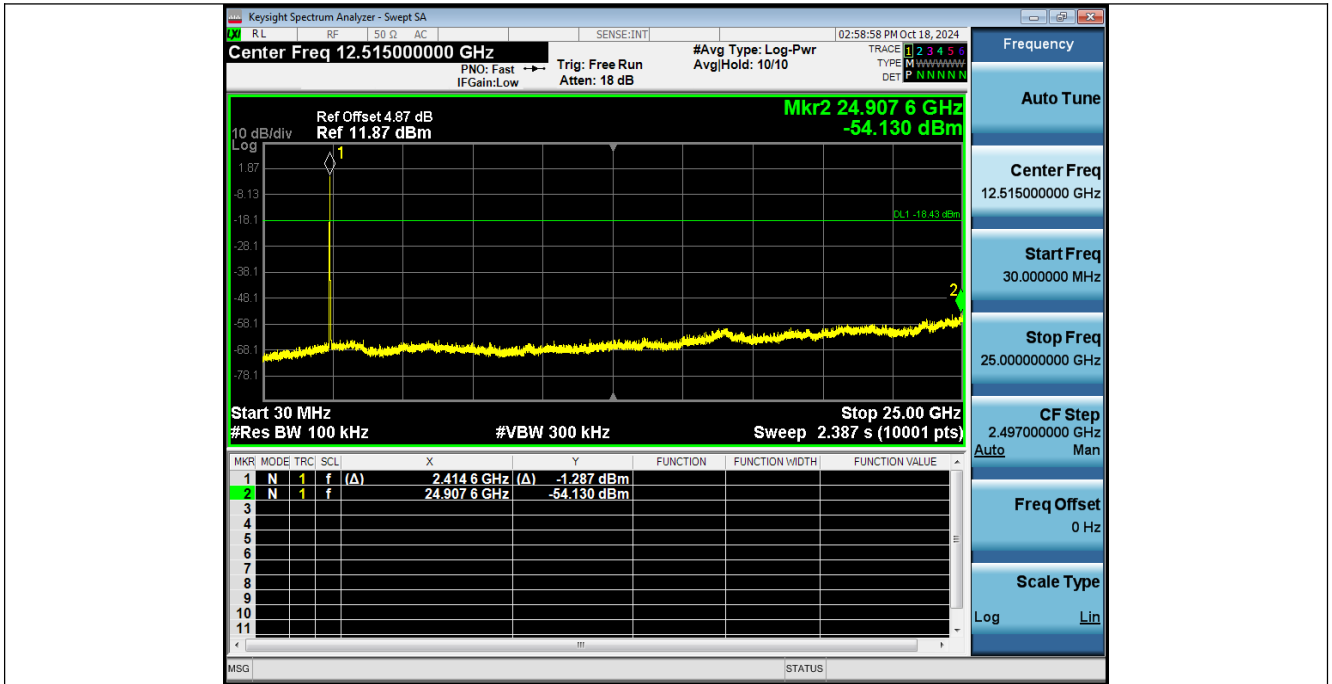
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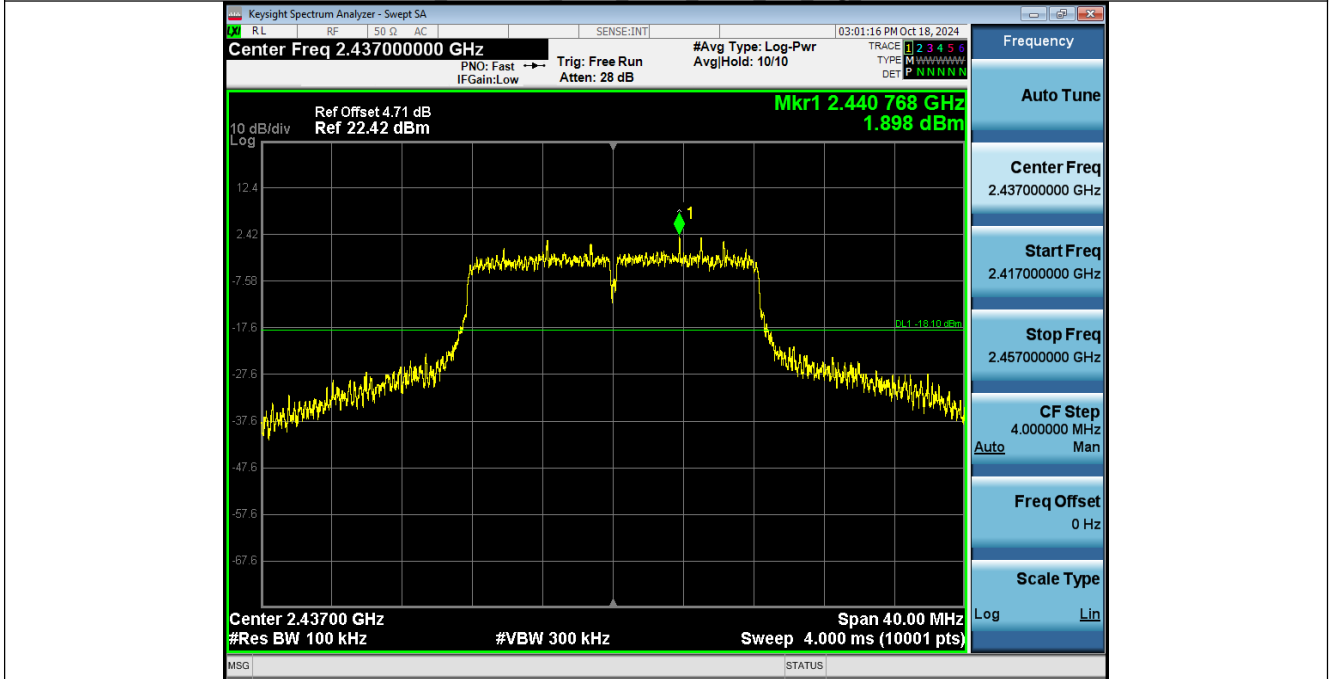
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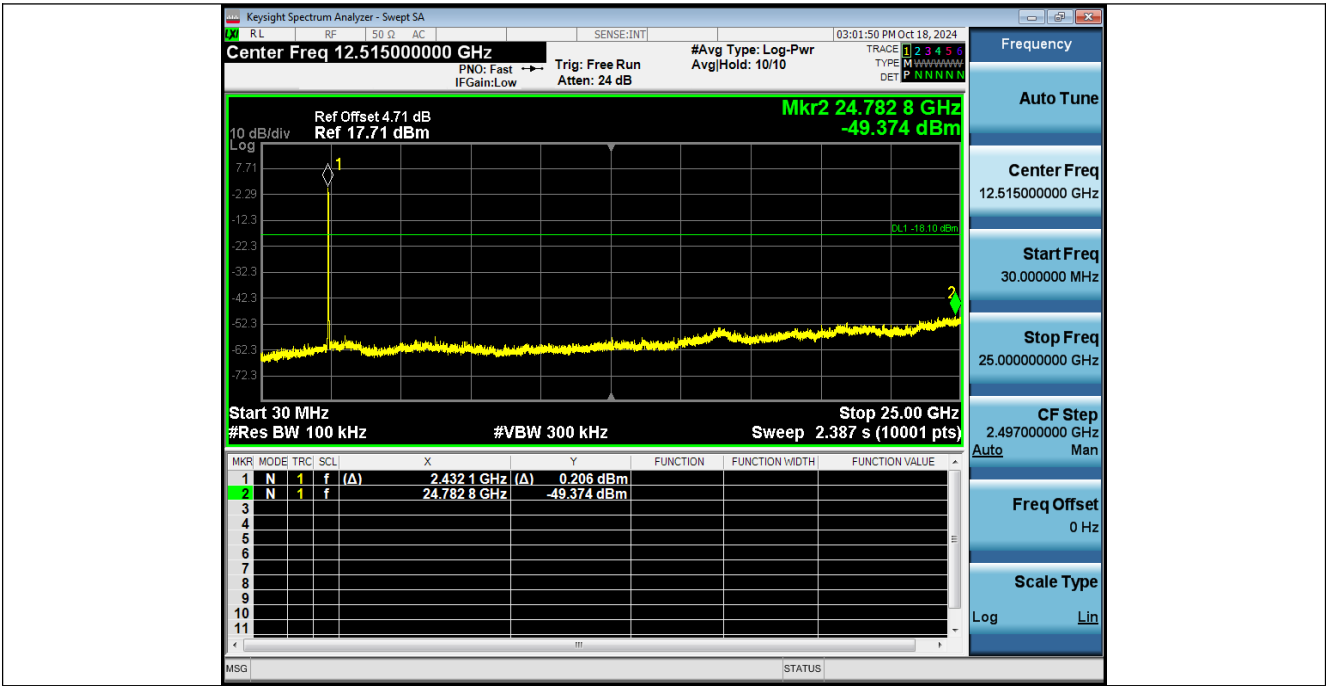
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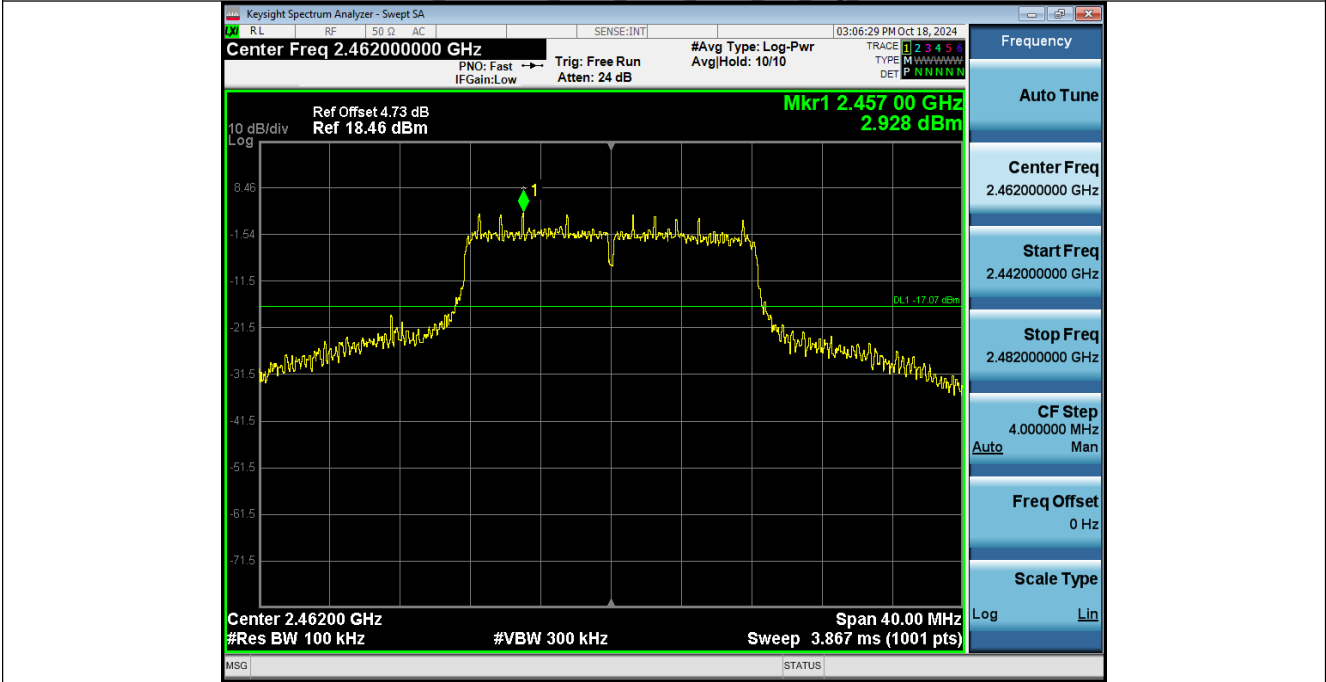
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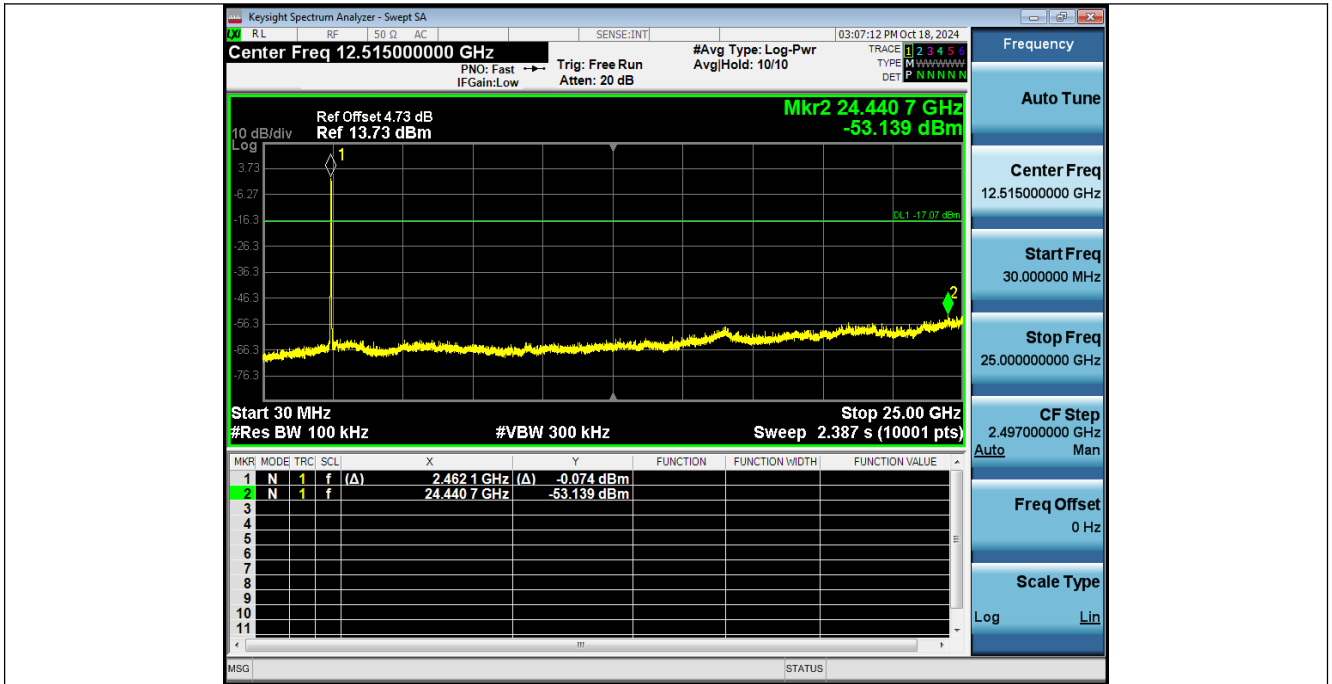
2 Spurious Emission NVNT_ANT1_802_11g_2437



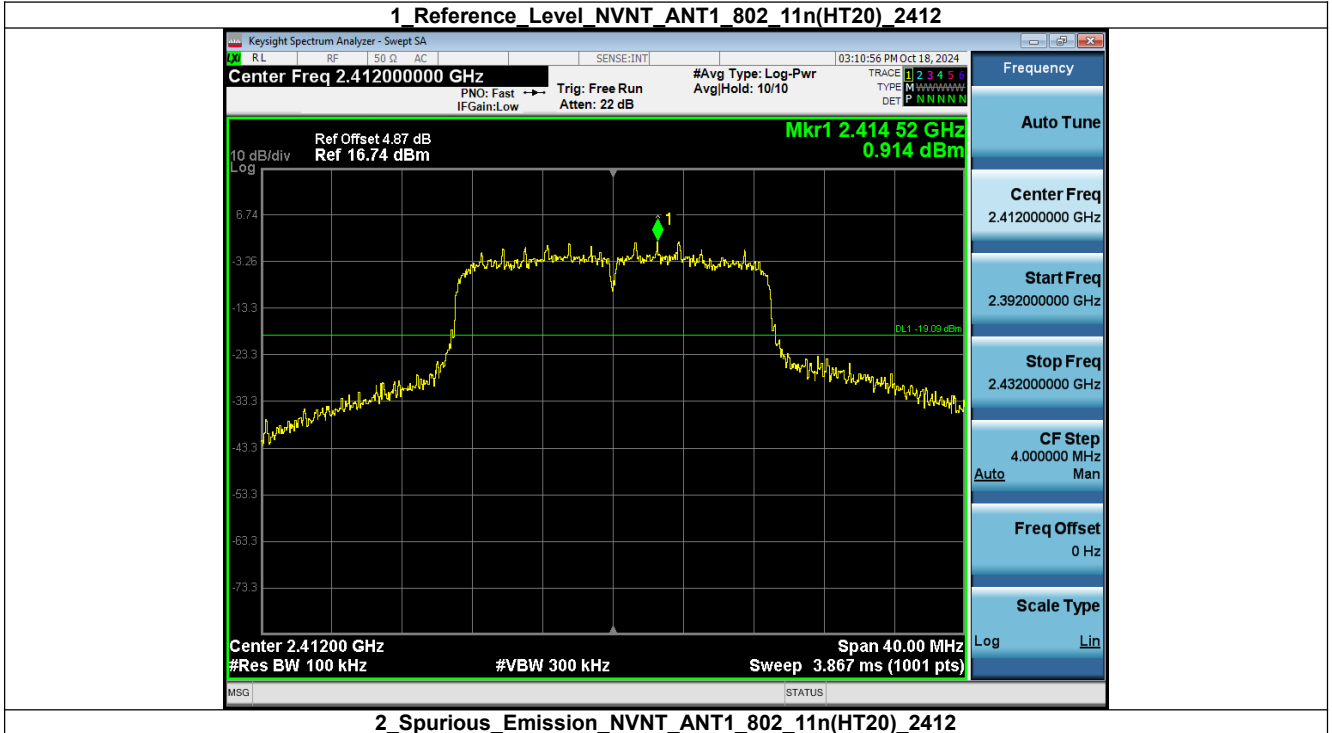
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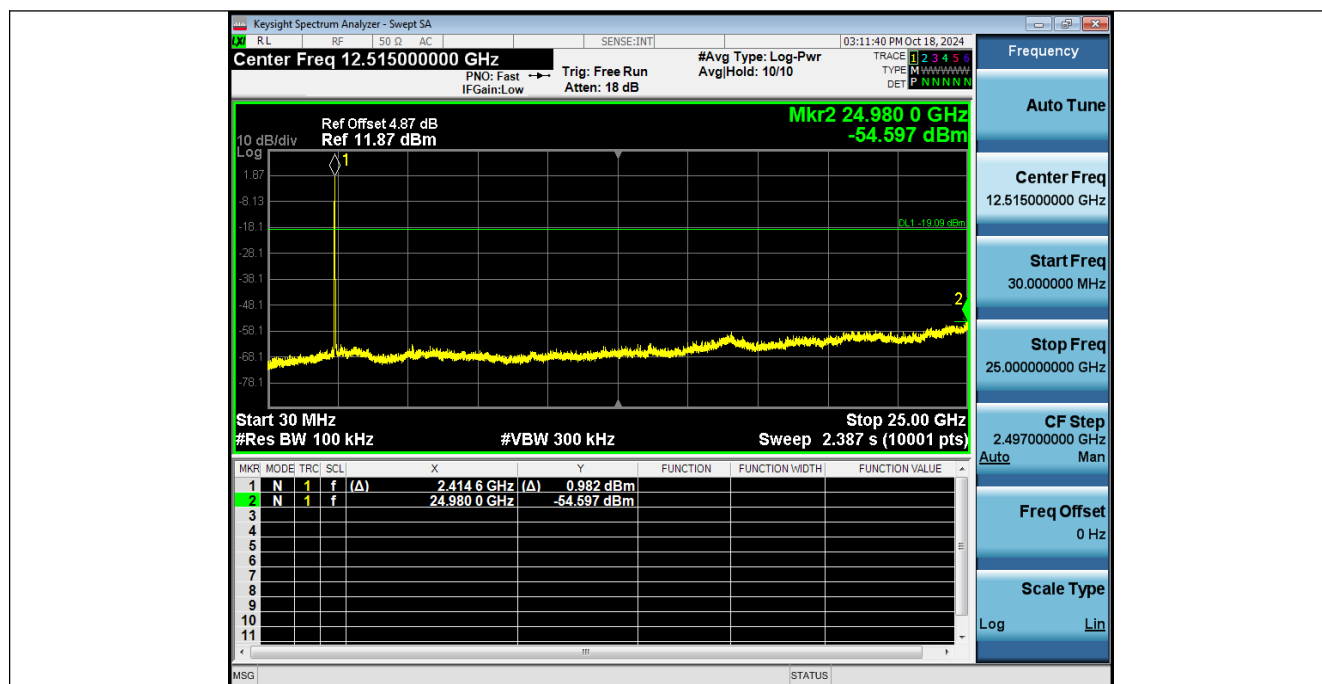
2 Spurious_Emission_NVNT_ANT1_802_11g_2462



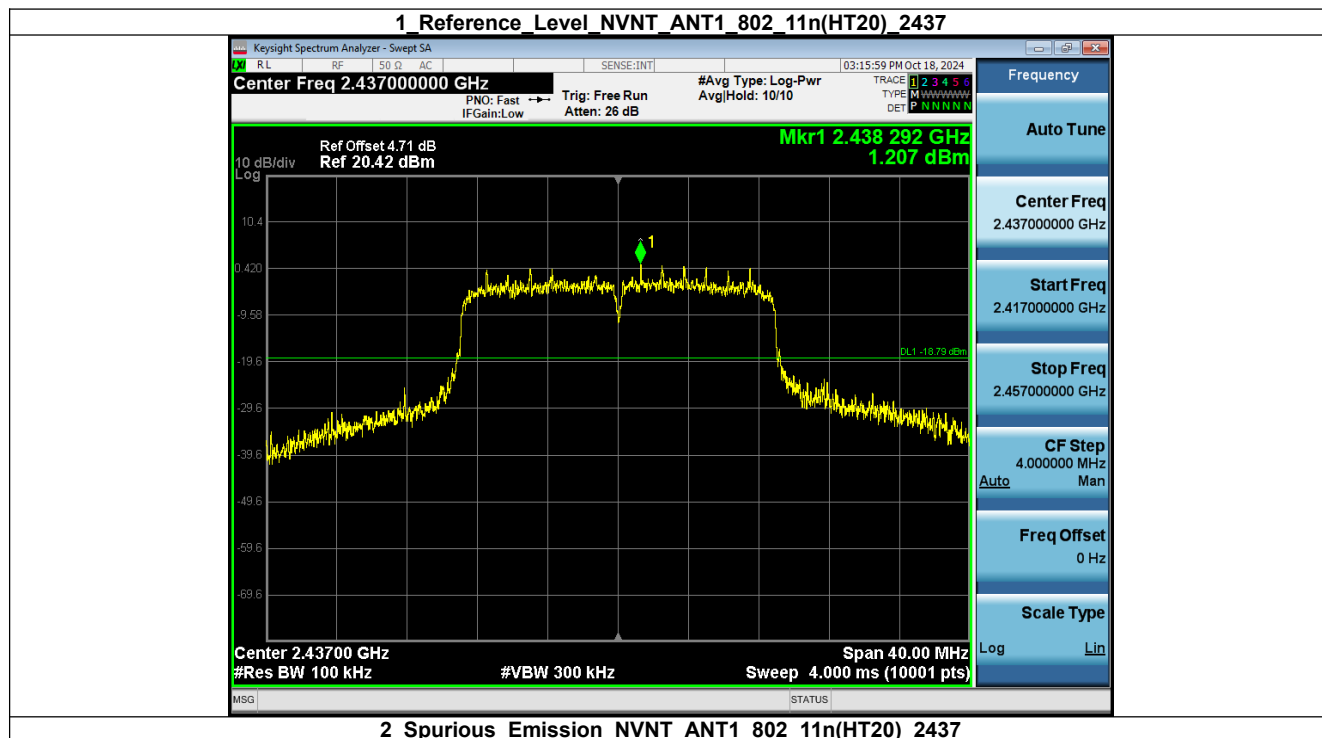
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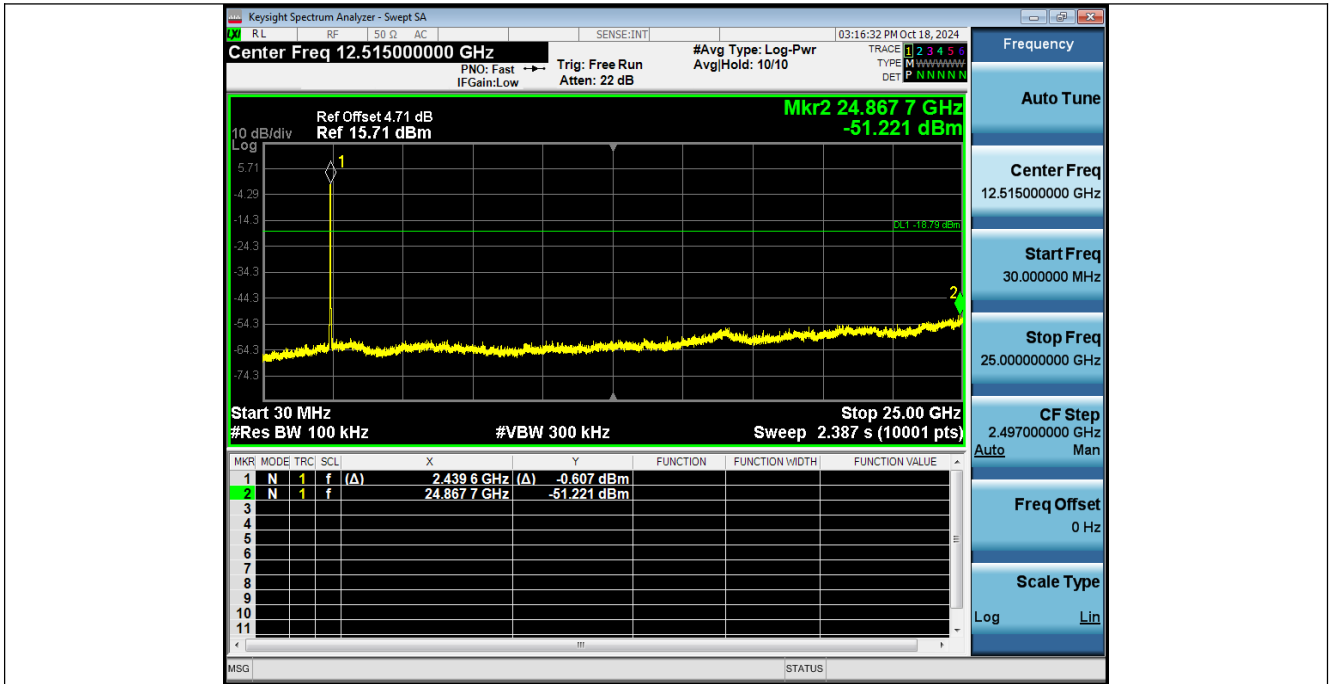
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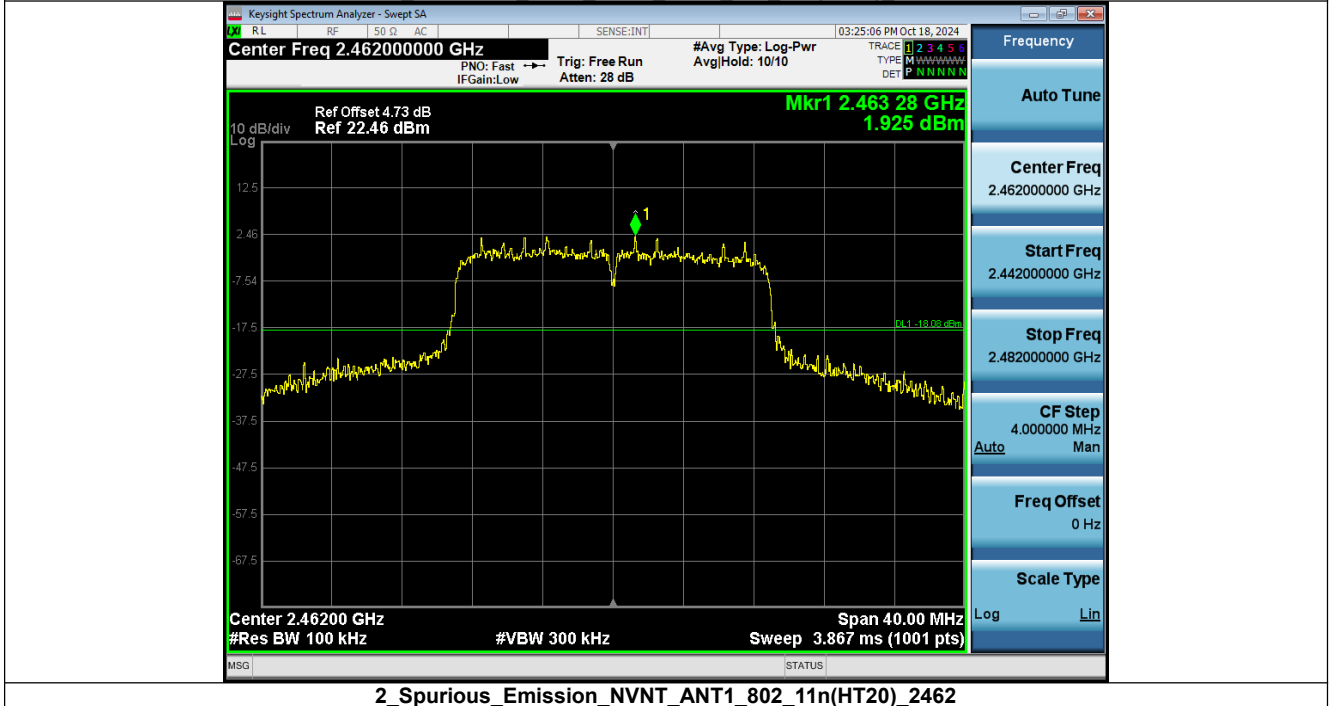
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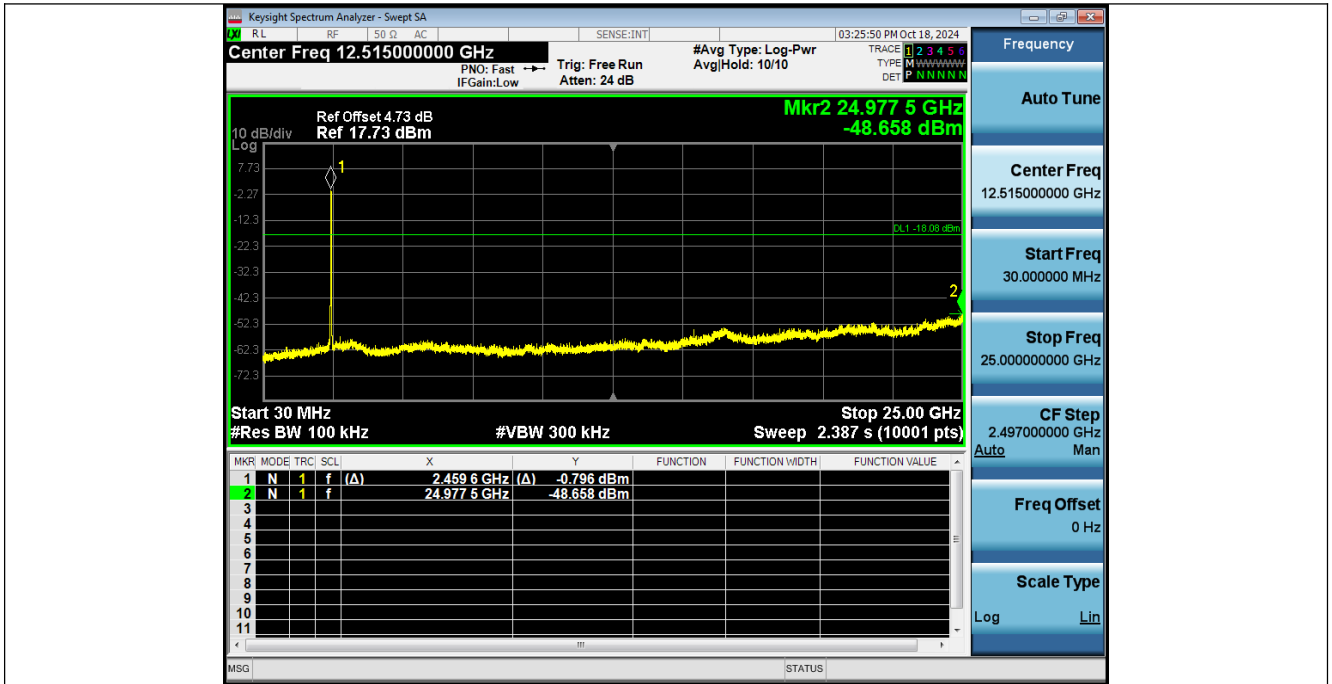
2 Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437



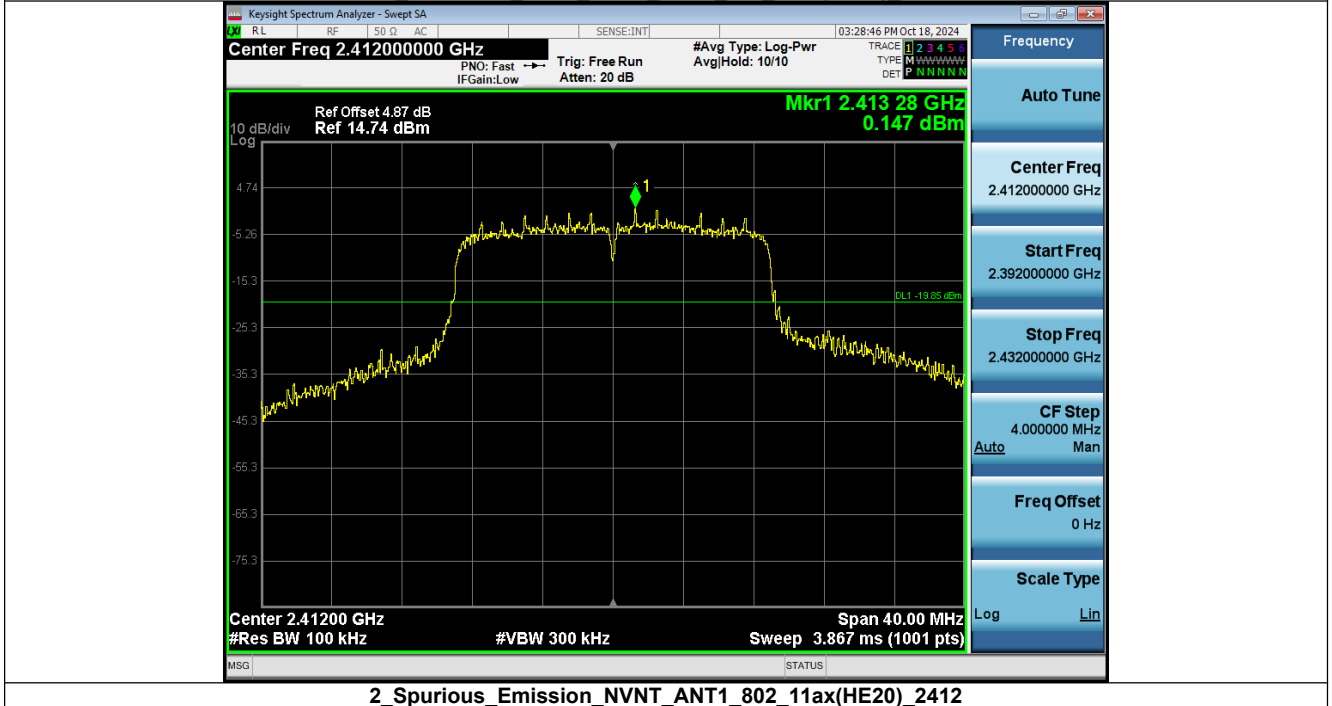
1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



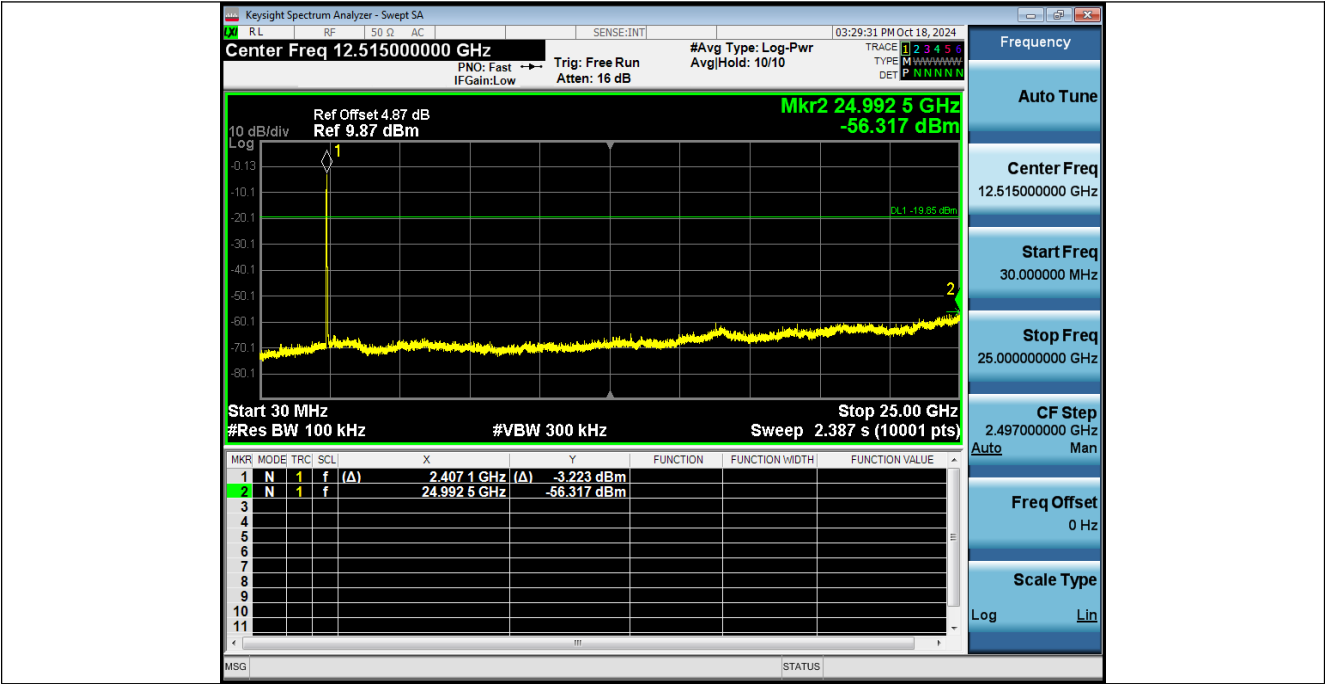
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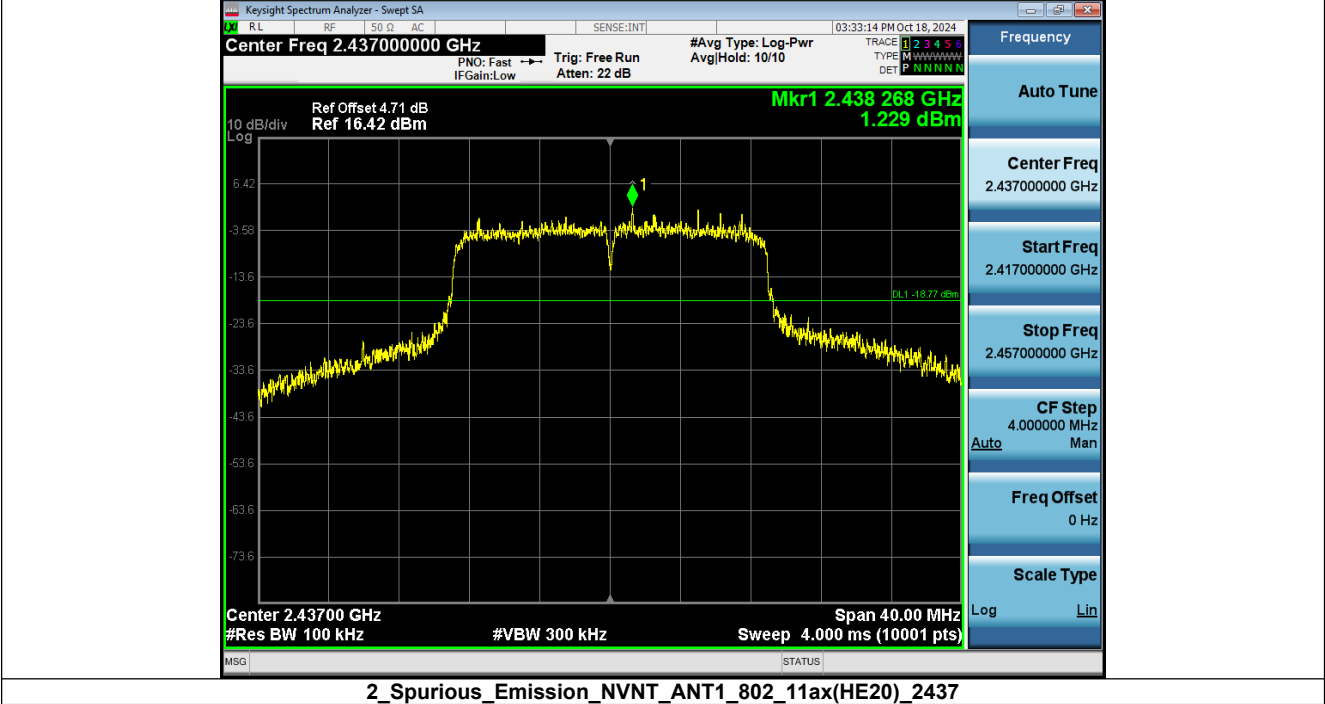
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2412



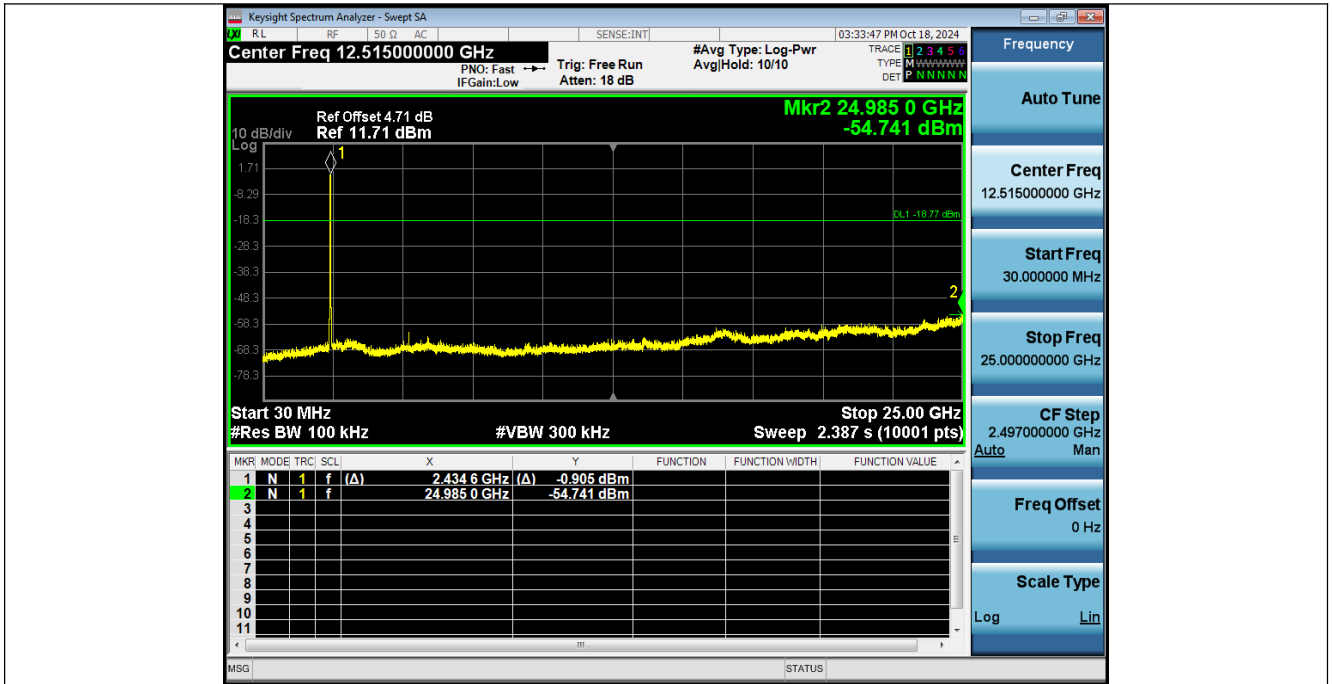
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2412



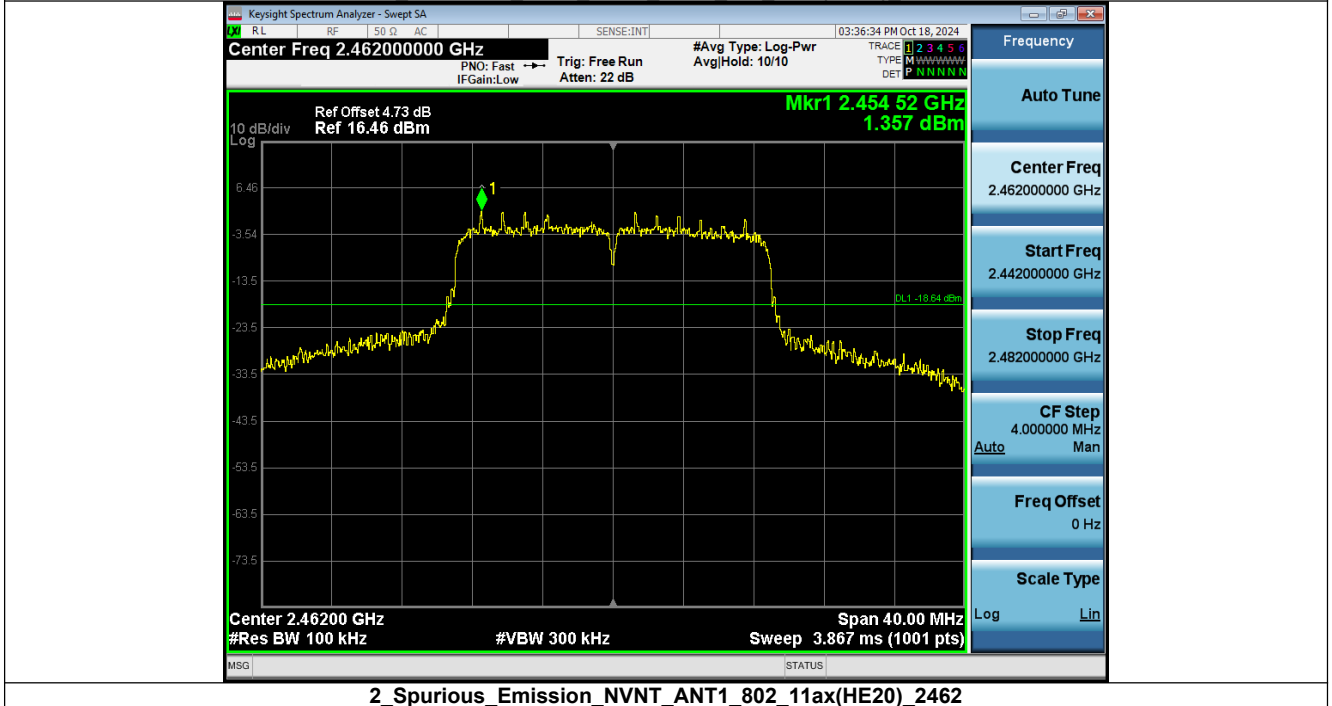
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2437



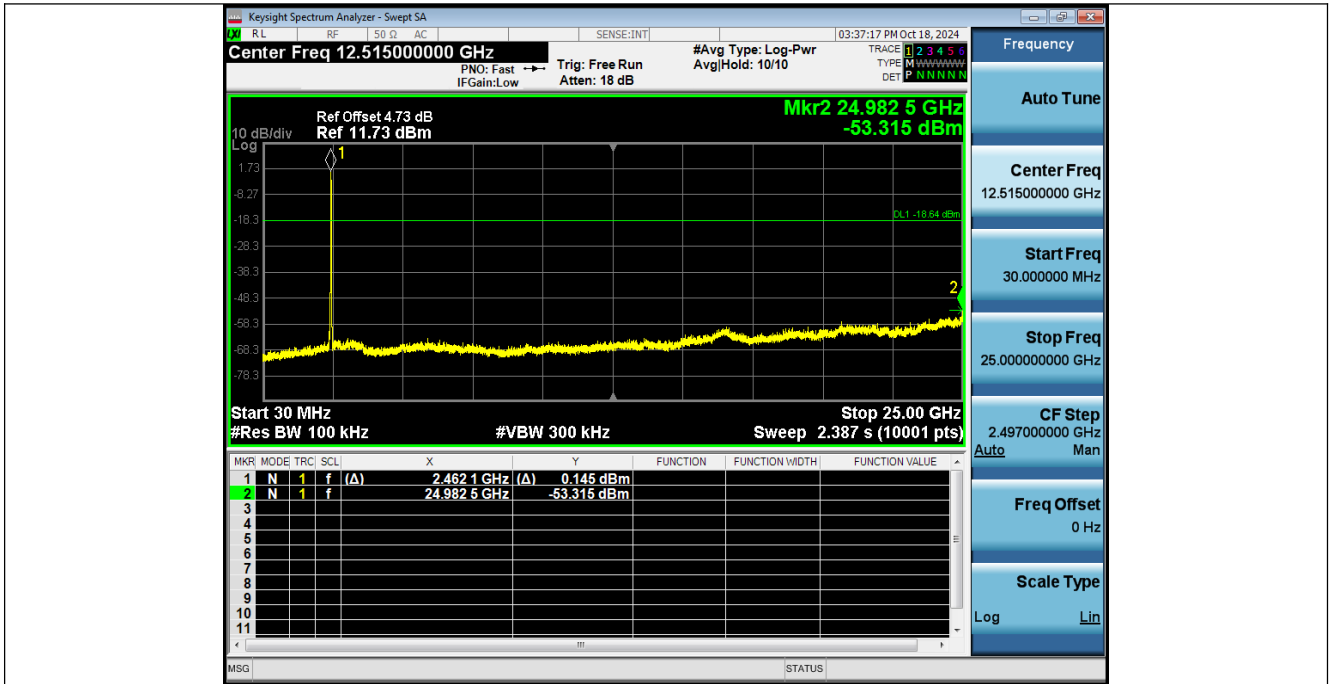
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2437



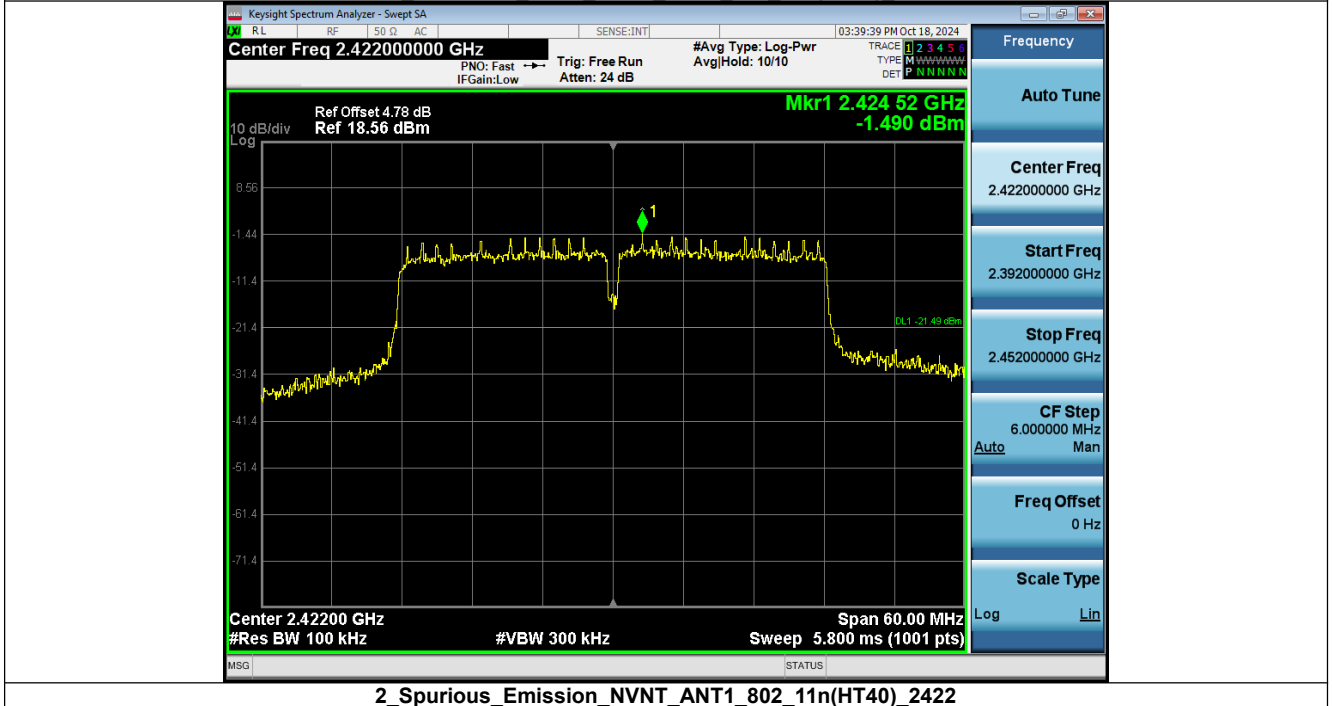
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2462



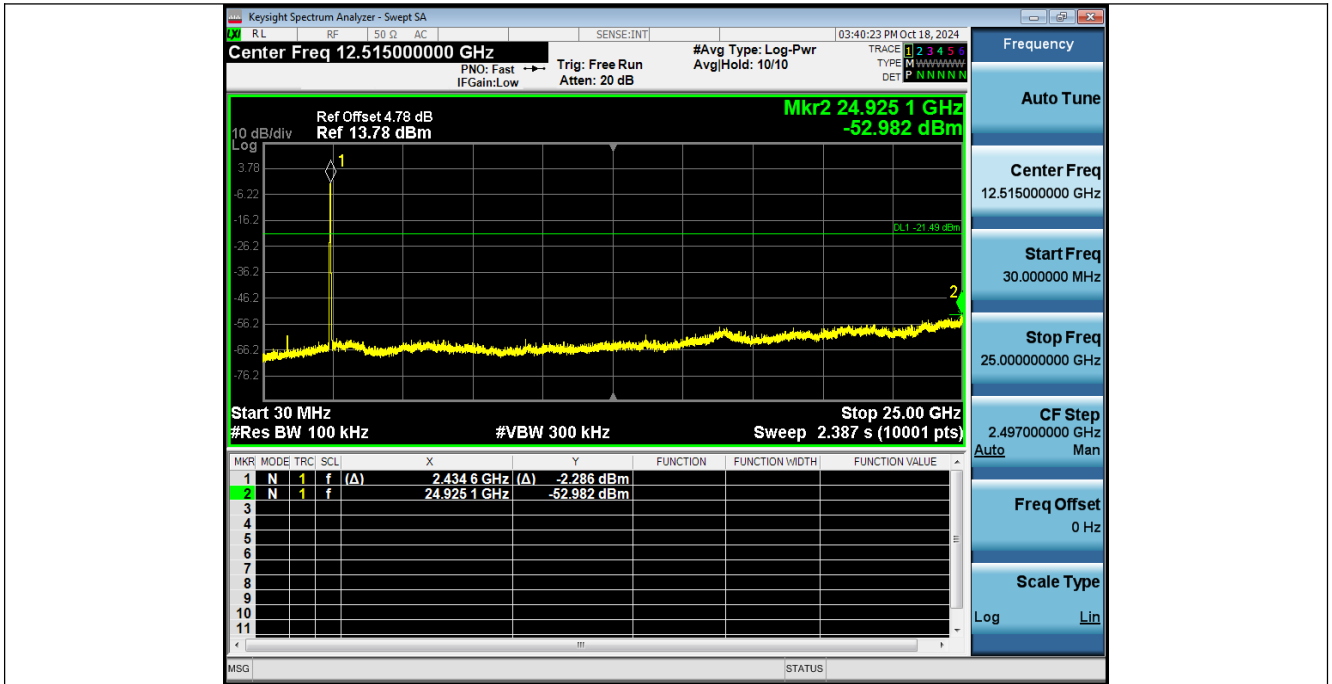
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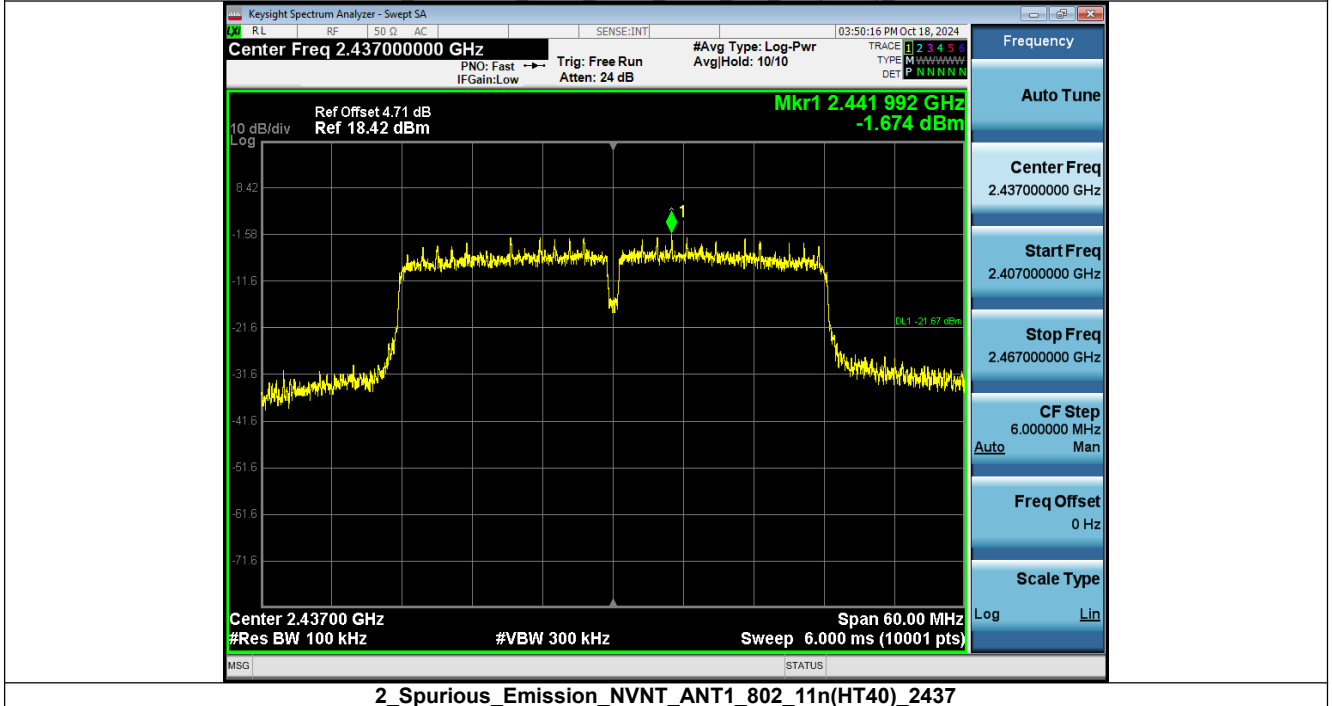
1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



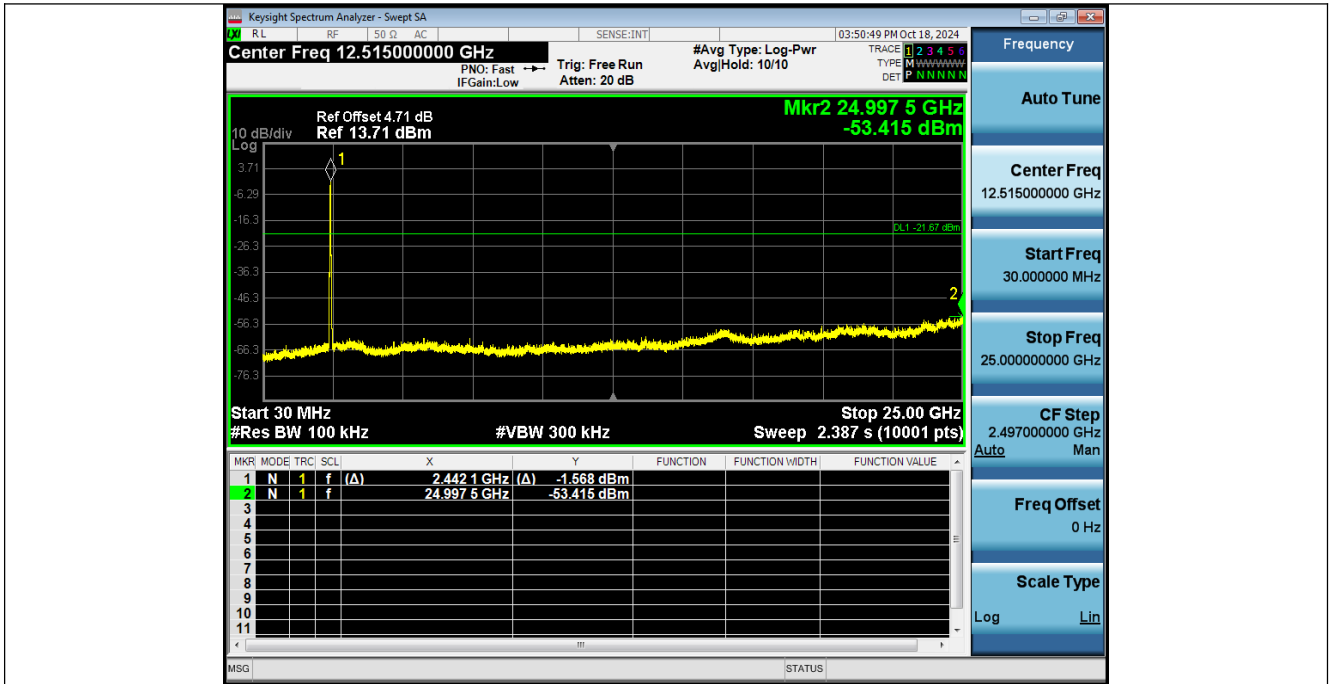
2 Spurious_Emission_NVNT_ANT1_802_11n(HT40)_2422



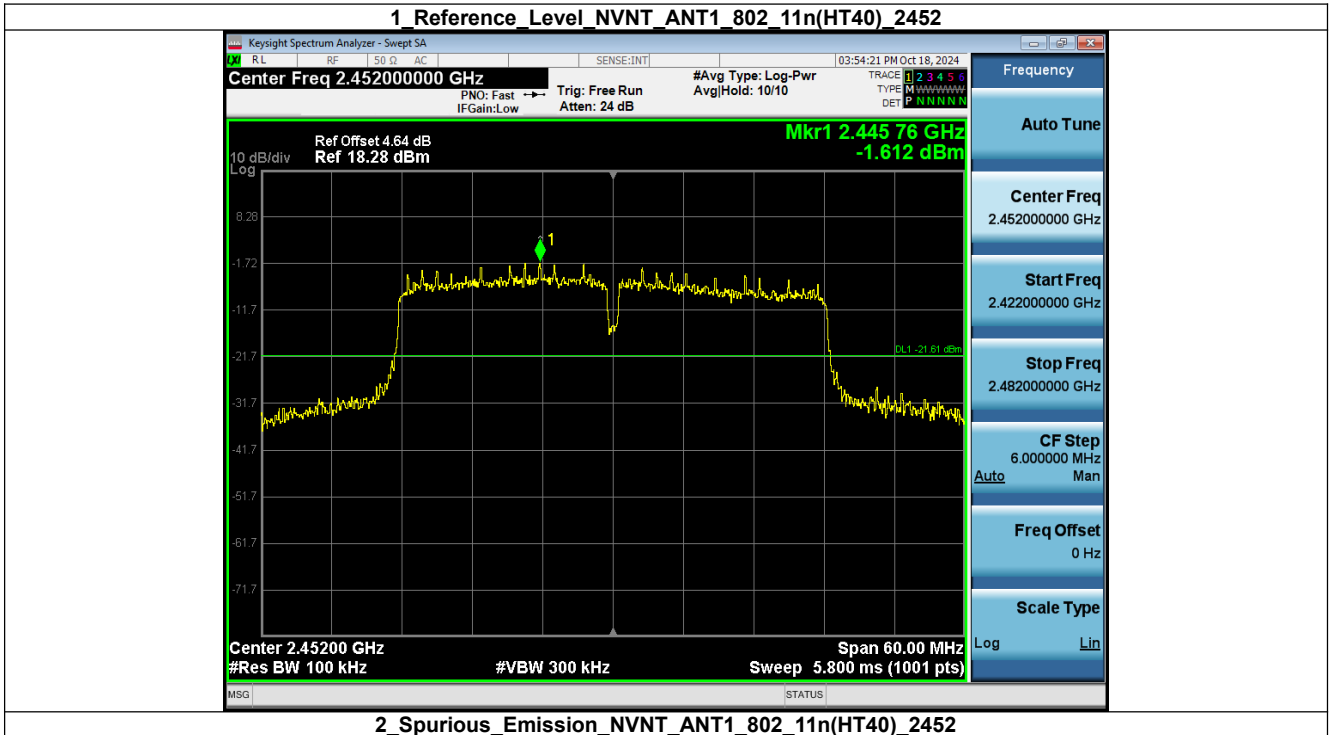
1 Reference Level_NVNT_ANT1_802_11n(HT40)_2437



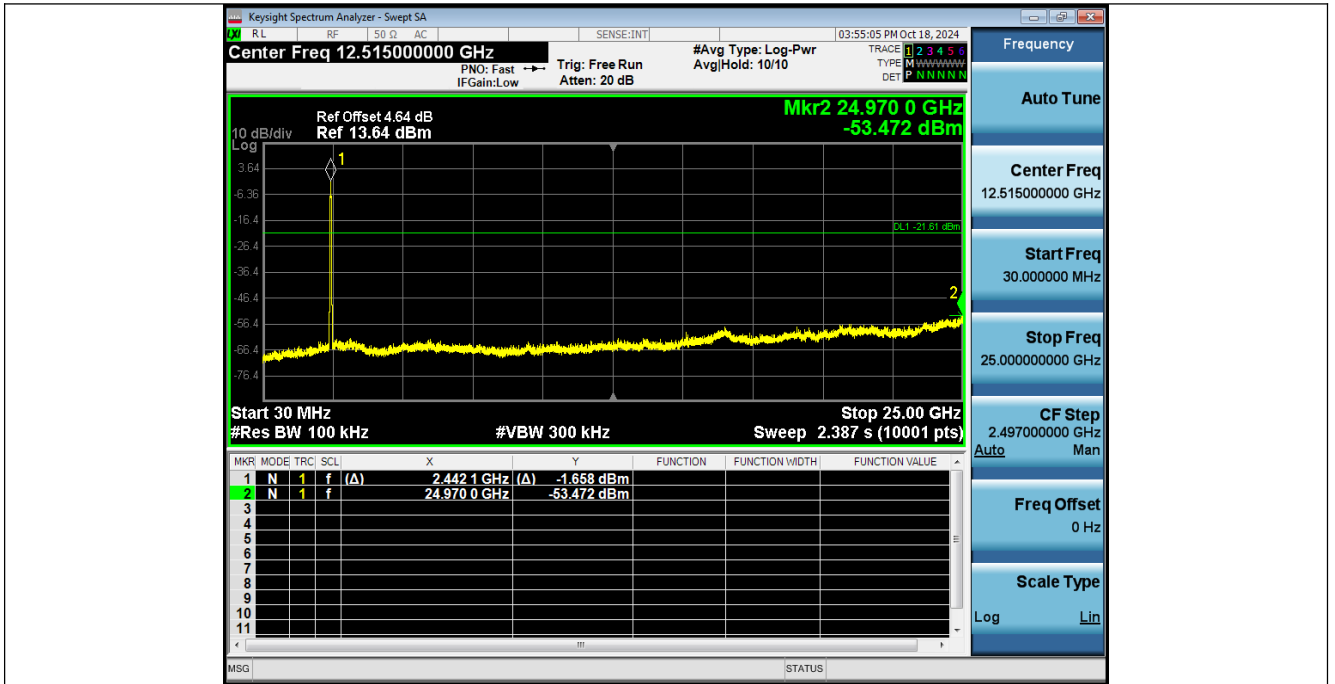
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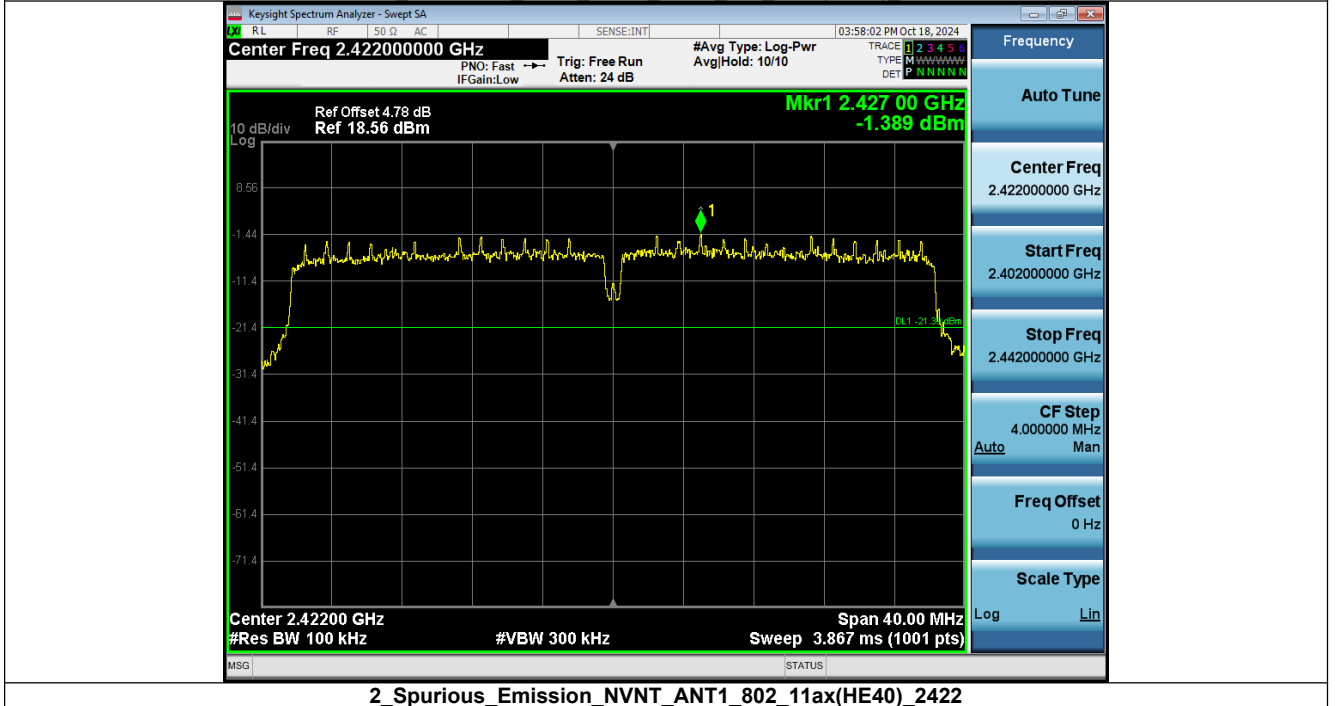
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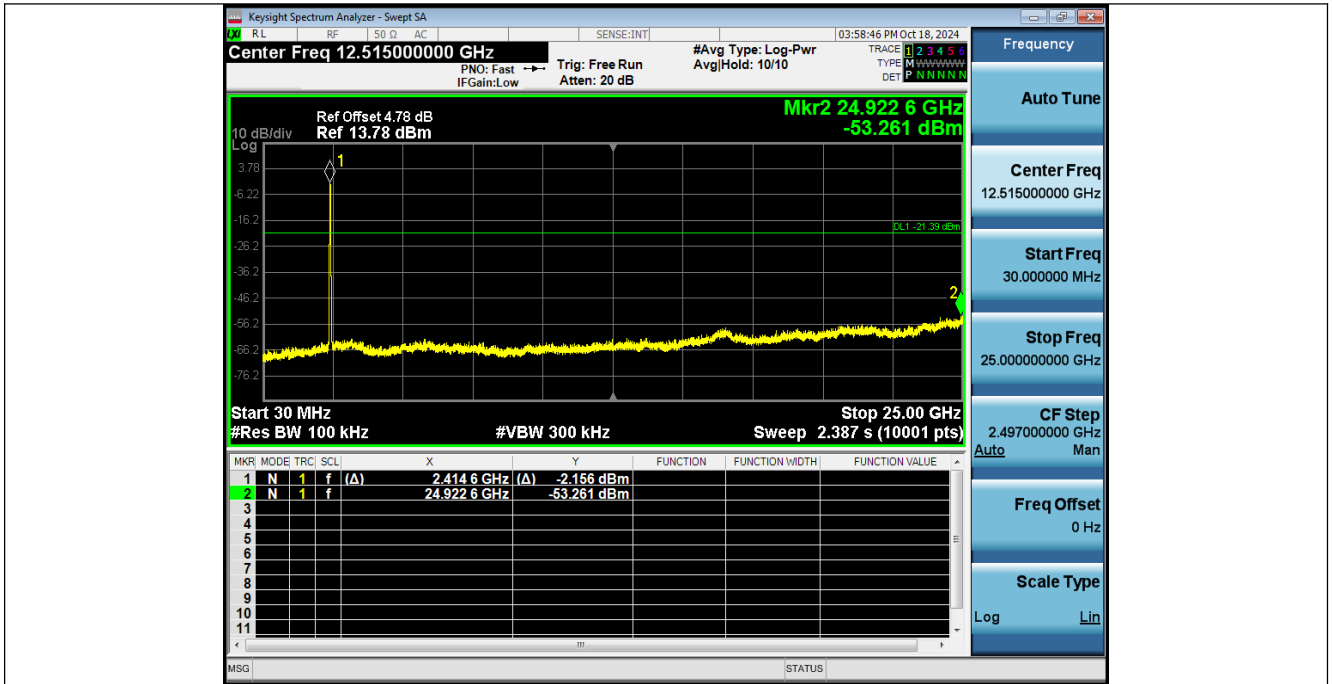
2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2452



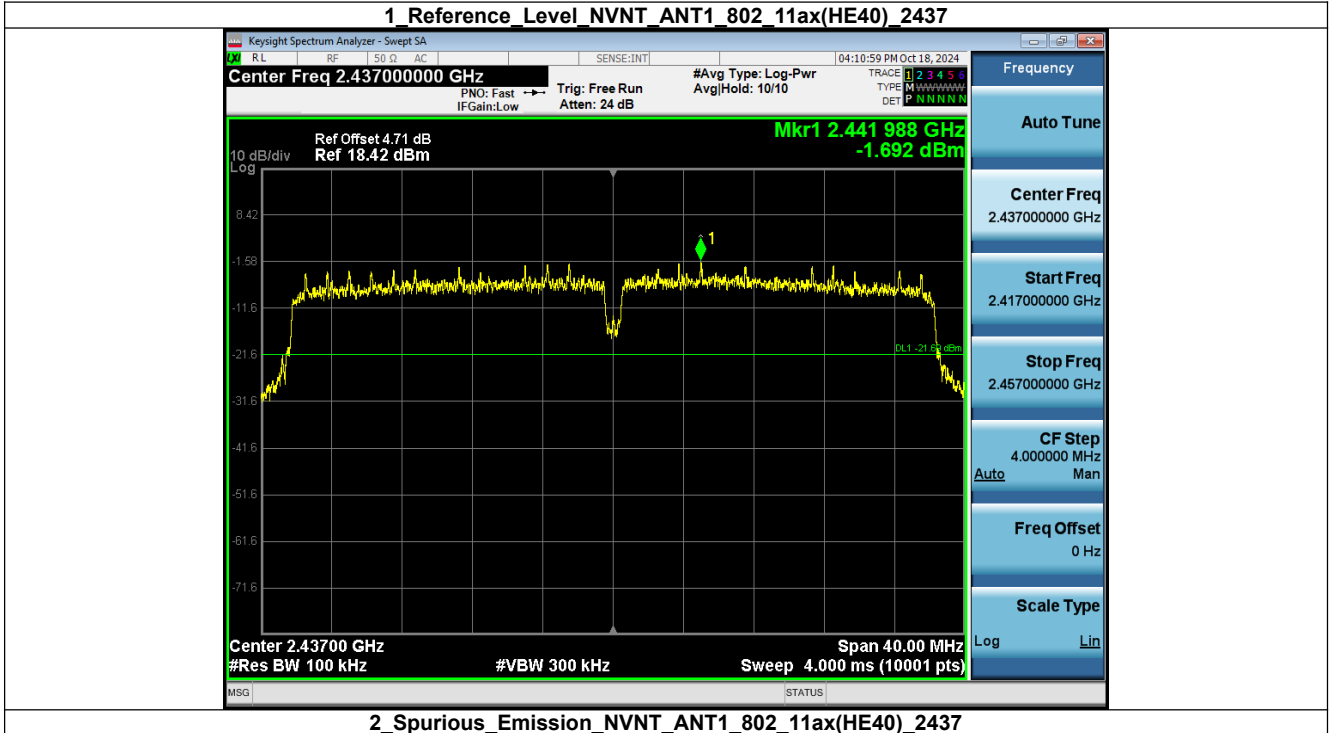
1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2422



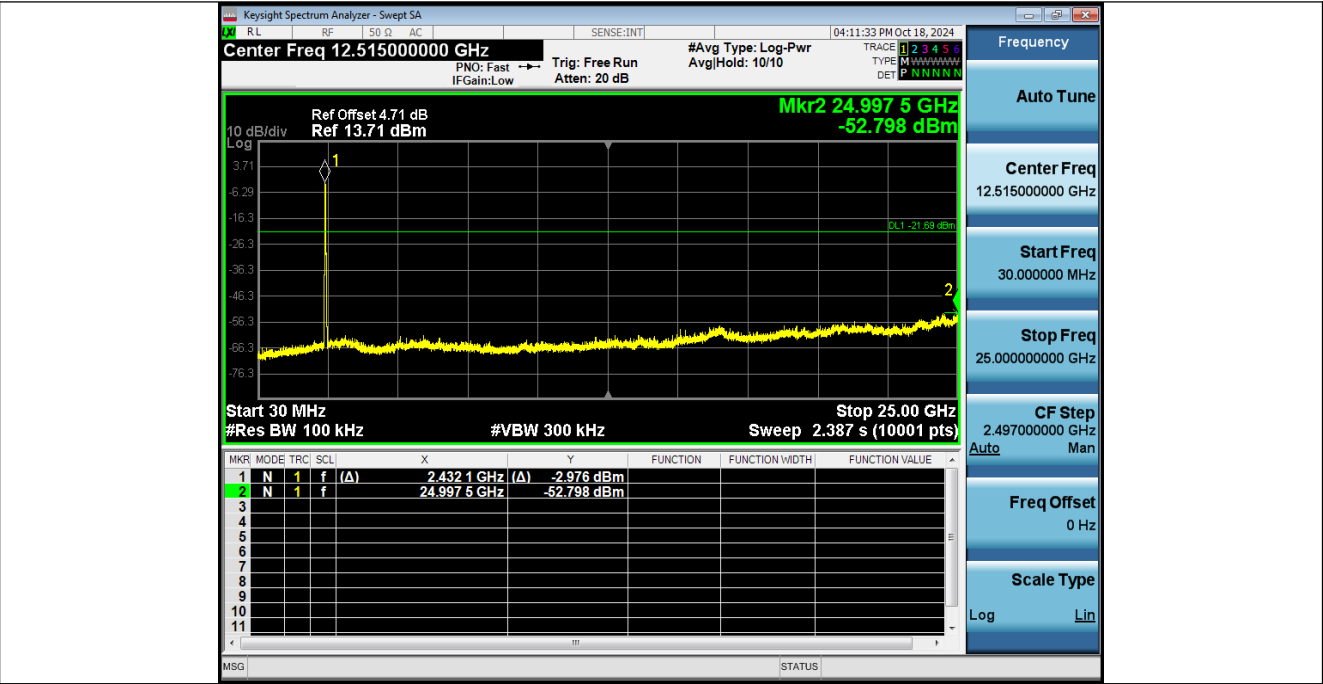
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2422



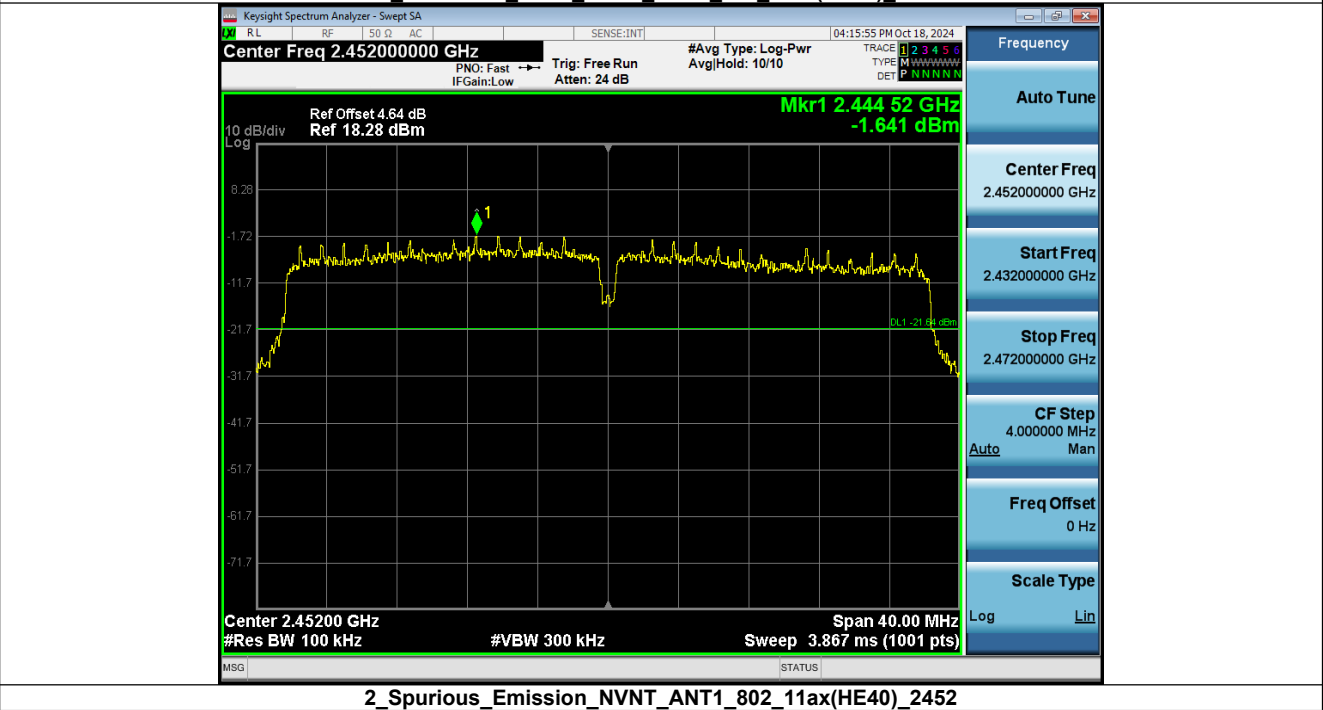
1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2437



2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2437



1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2452

