

FCC Appendix RF Test Data for BT

FCC ID : 2BHJR-NE878

Company : Shenzhen xiaoxiang supply chain technology co., ltd

EUT : HTC Wireless Earphones 87

Model Number : HTC NE87

Report No. : CTA26073102801

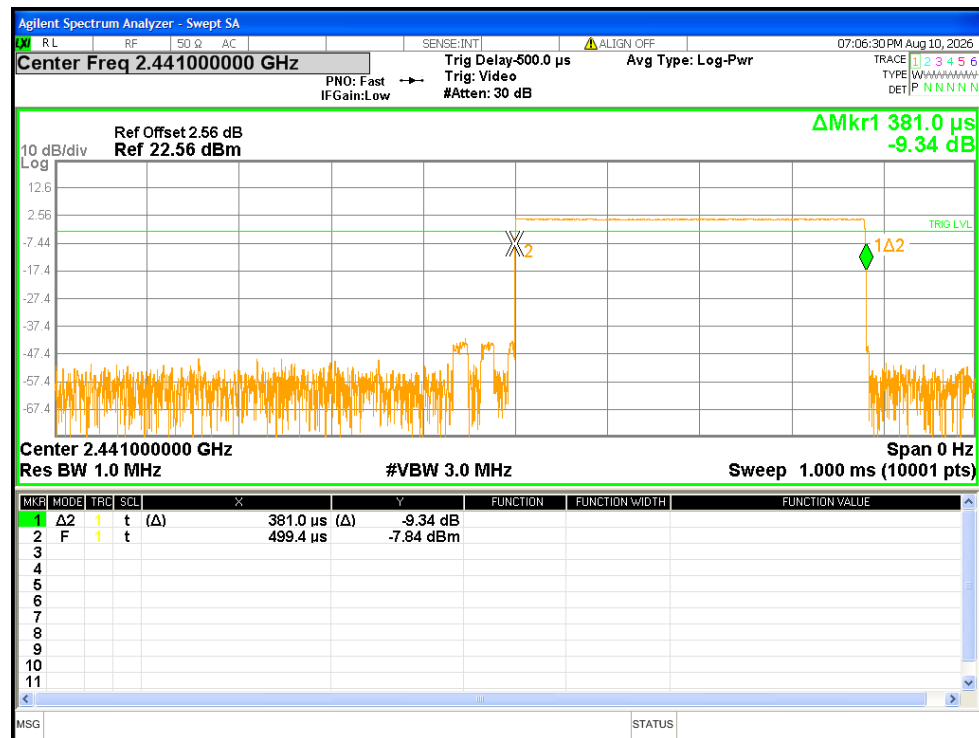
Reviewed By : Eric Wang

Dwell Time

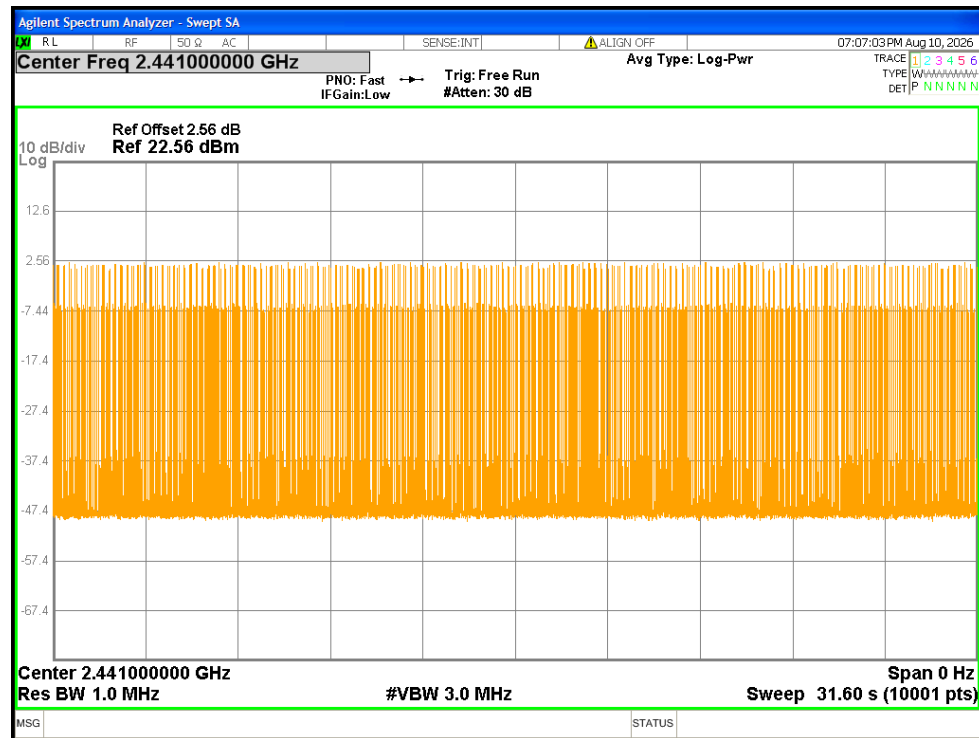
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.381	120.396	316	31600	<=400	Pass
1-DH3	2441	1.637	248.824	152	31600	<=400	Pass
1-DH5	2441	2.884	314.356	109	31600	<=400	Pass
2-DH1	2441	0.389	122.924	316	31600	<=400	Pass
2-DH3	2441	1.642	252.868	154	31600	<=400	Pass
2-DH5	2441	2.889	274.455	95	31600	<=400	Pass
3-DH1	2441	0.389	122.146	314	31600	<=400	Pass
3-DH3	2441	1.64	264.04	161	31600	<=400	Pass
3-DH5	2441	2.891	294.882	102	31600	<=400	Pass

Test Graphs

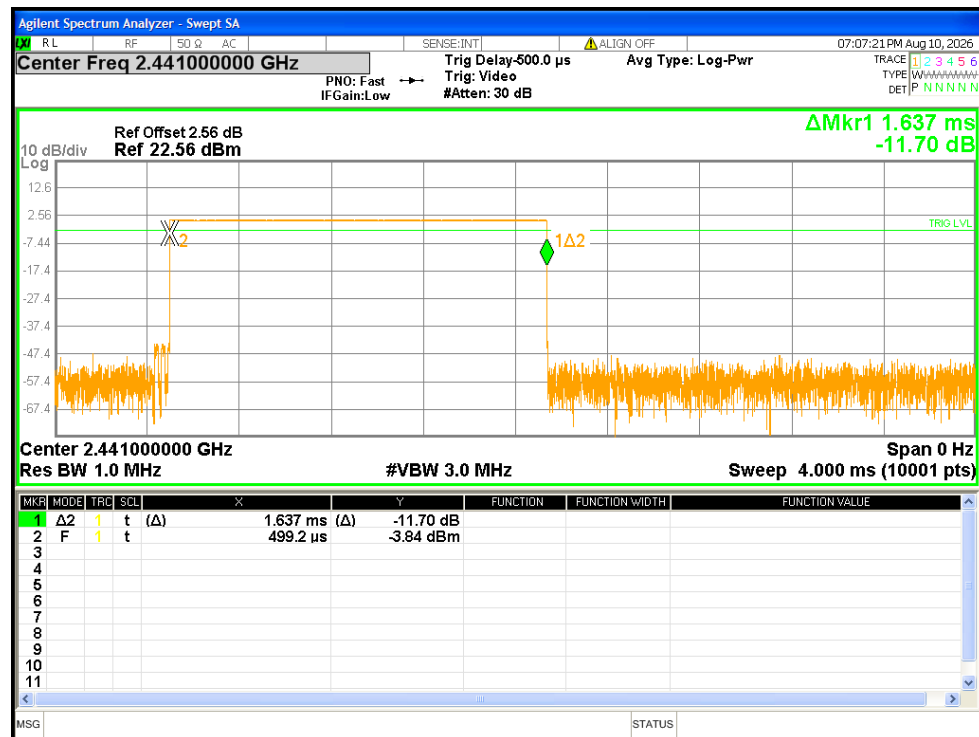
Dwell NVNT 1-DH1 2441MHz One Burst



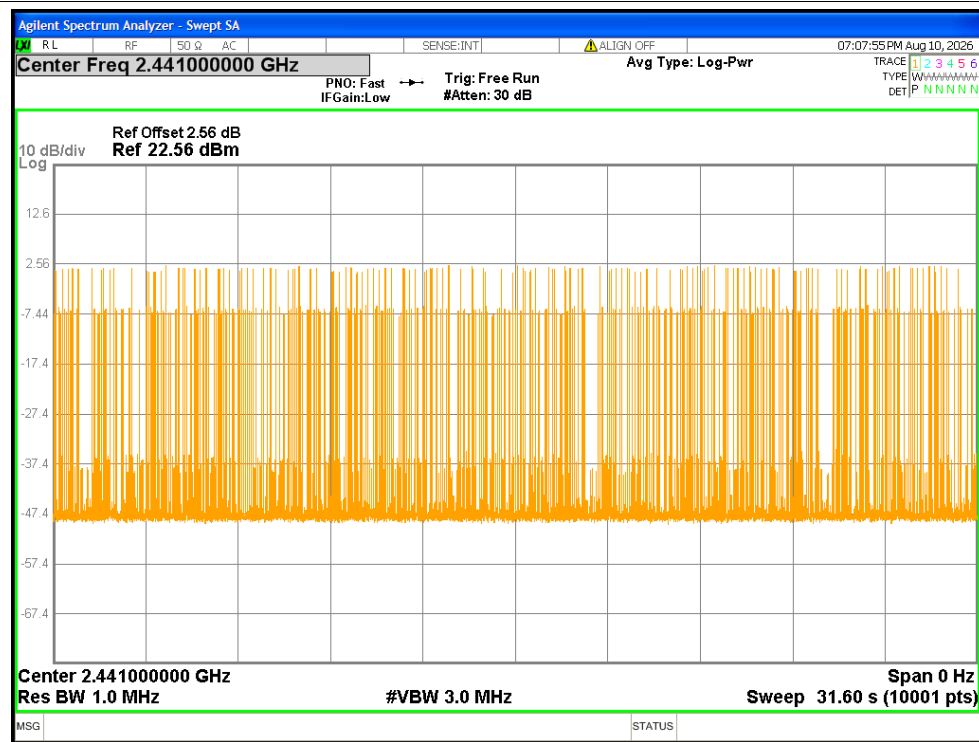
Dwell NVNT 1-DH1 2441MHz Accumulated



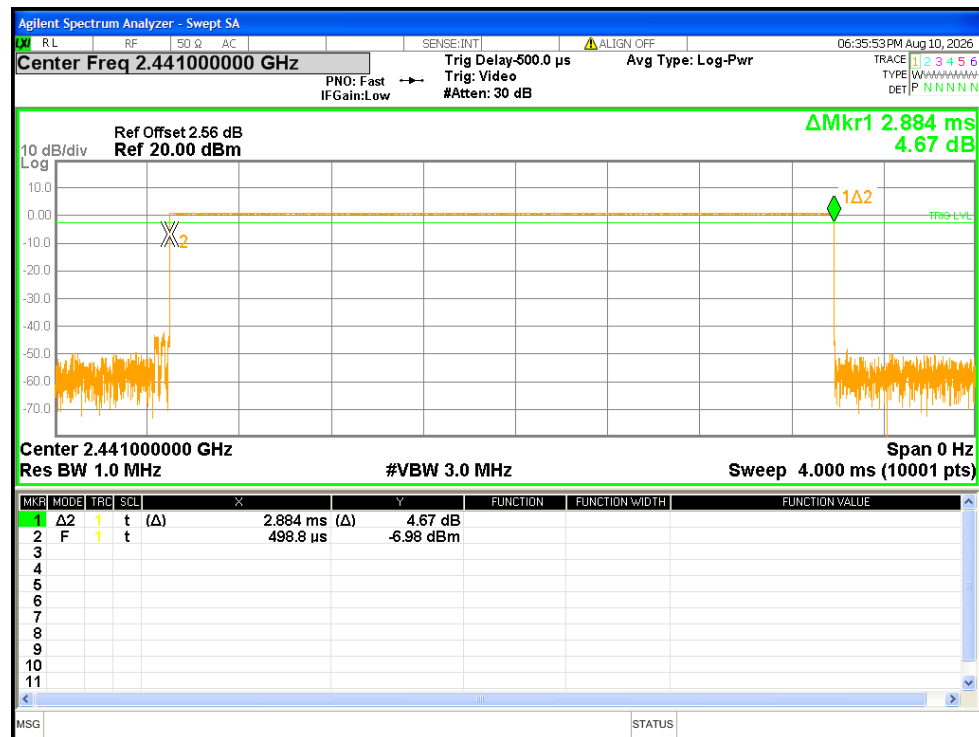
Dwell NVNT 1-DH3 2441MHz One Burst



Dwell NVNT 1-DH3 2441MHz Accumulated



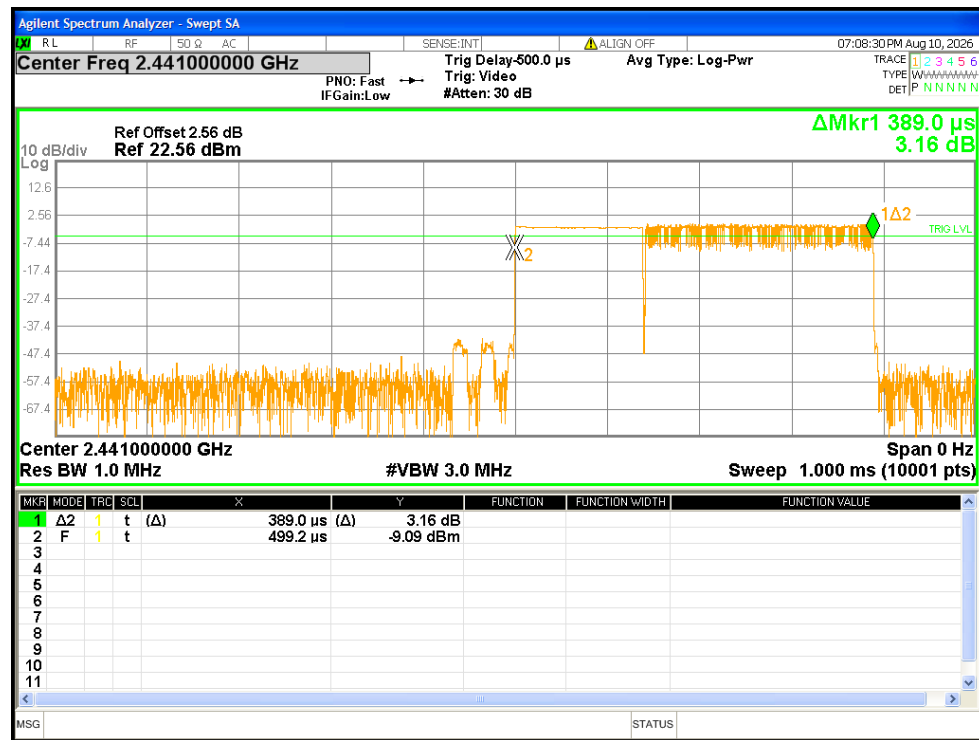
Dwell NVNT 1-DH5 2441MHz One Burst



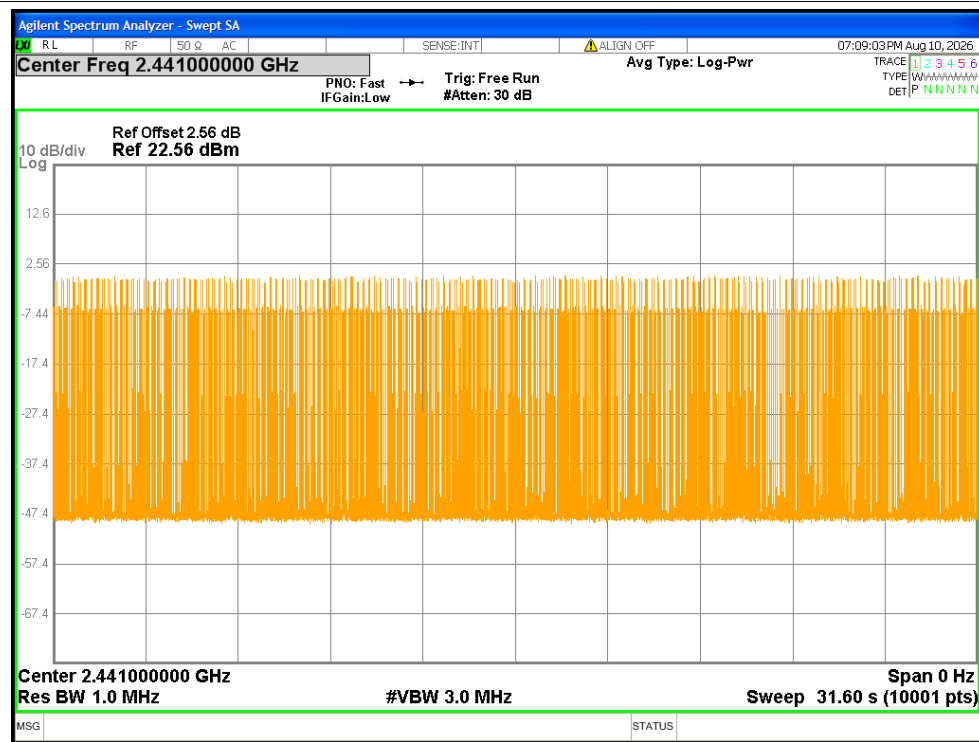
Dwell NVNT 1-DH5 2441MHz Accumulated



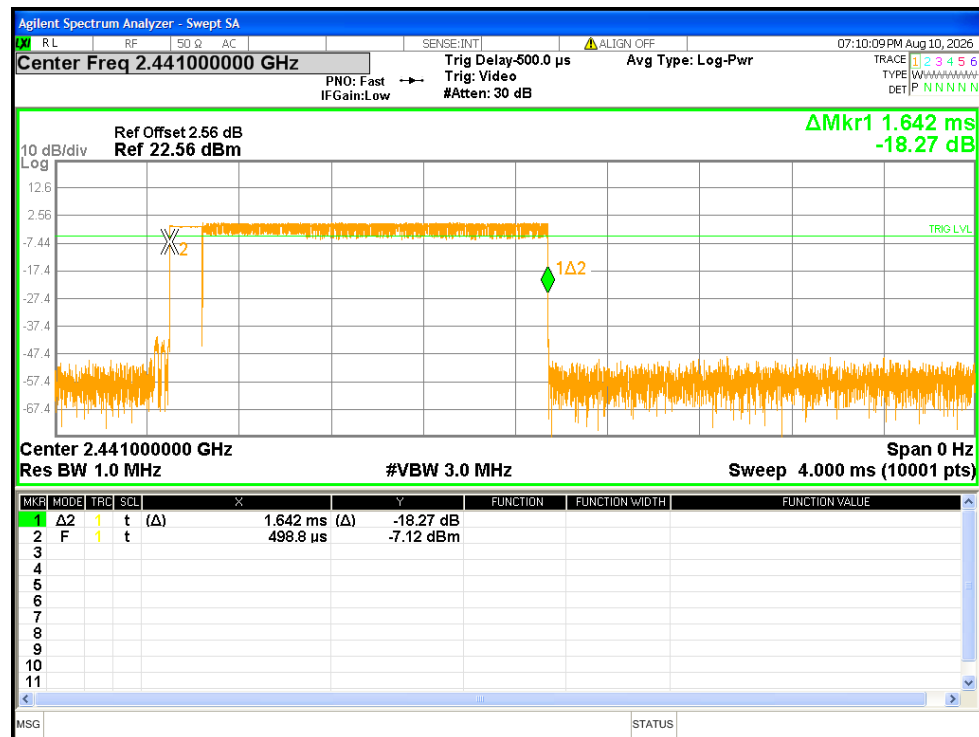
Dwell NVNT 2-DH1 2441MHz One Burst



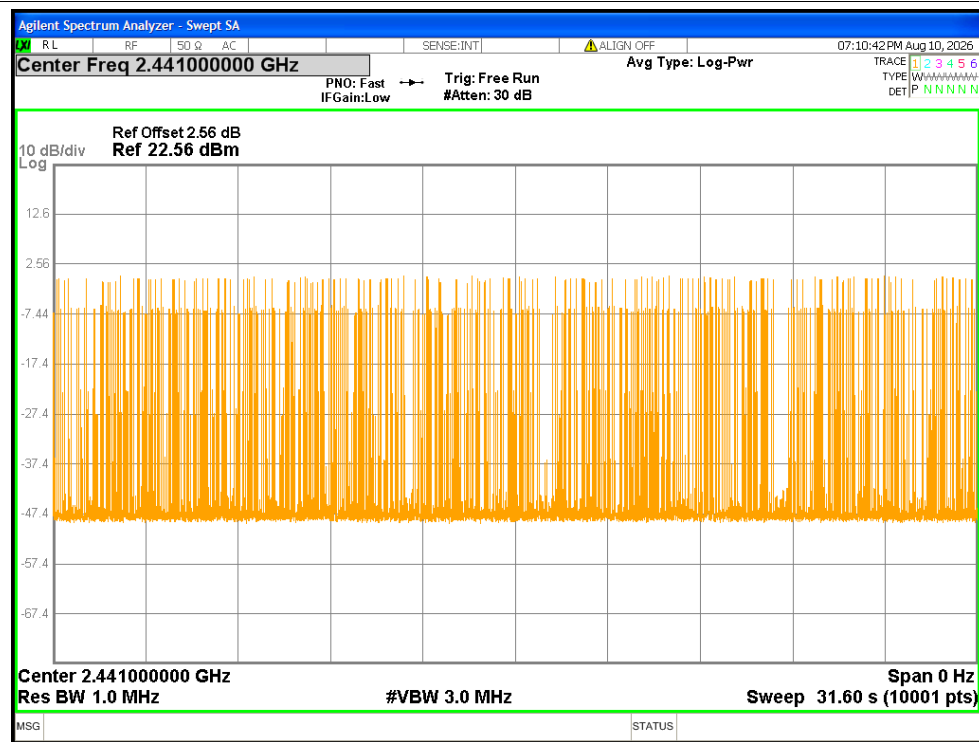
Dwell NVNT 2-DH1 2441MHz Accumulated



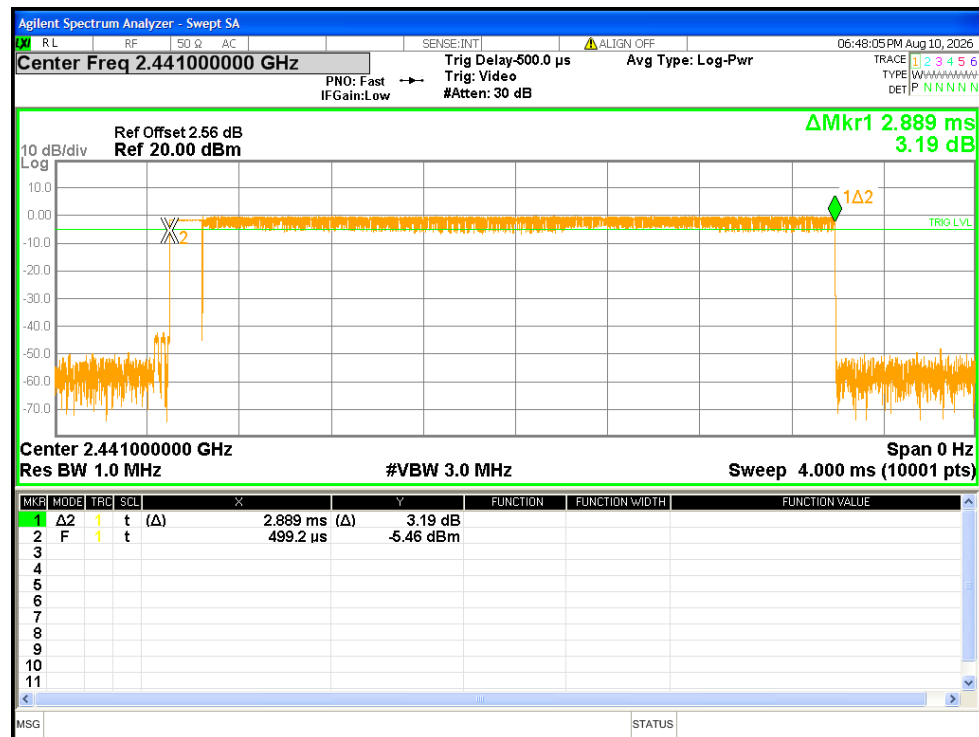
Dwell NVNT 2-DH3 2441MHz One Burst



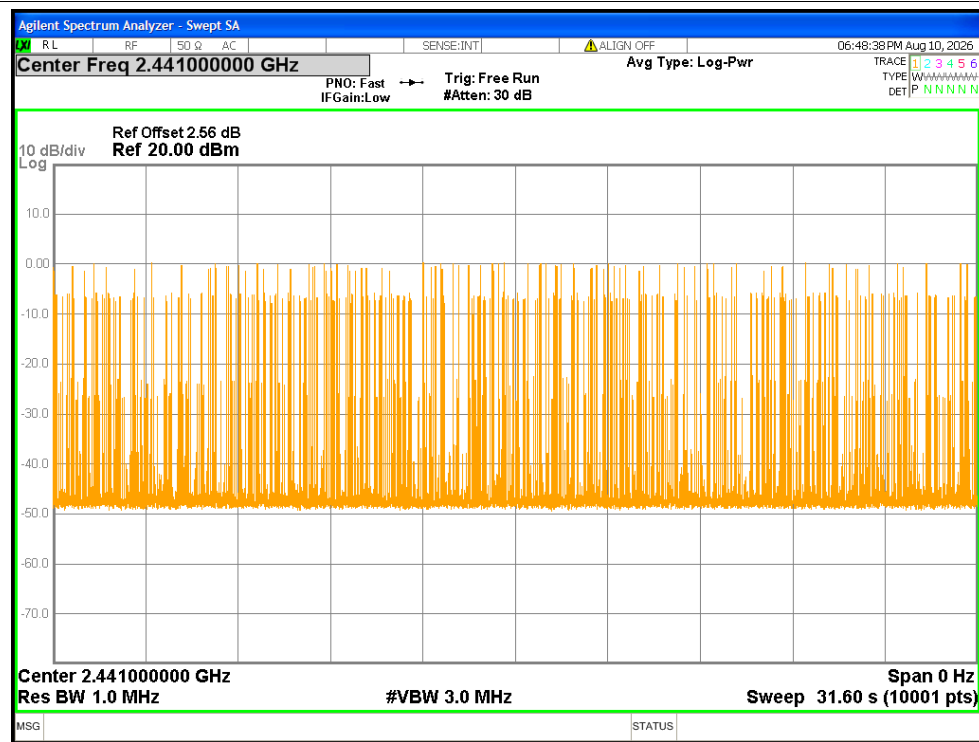
Dwell NVNT 2-DH3 2441MHz Accumulated



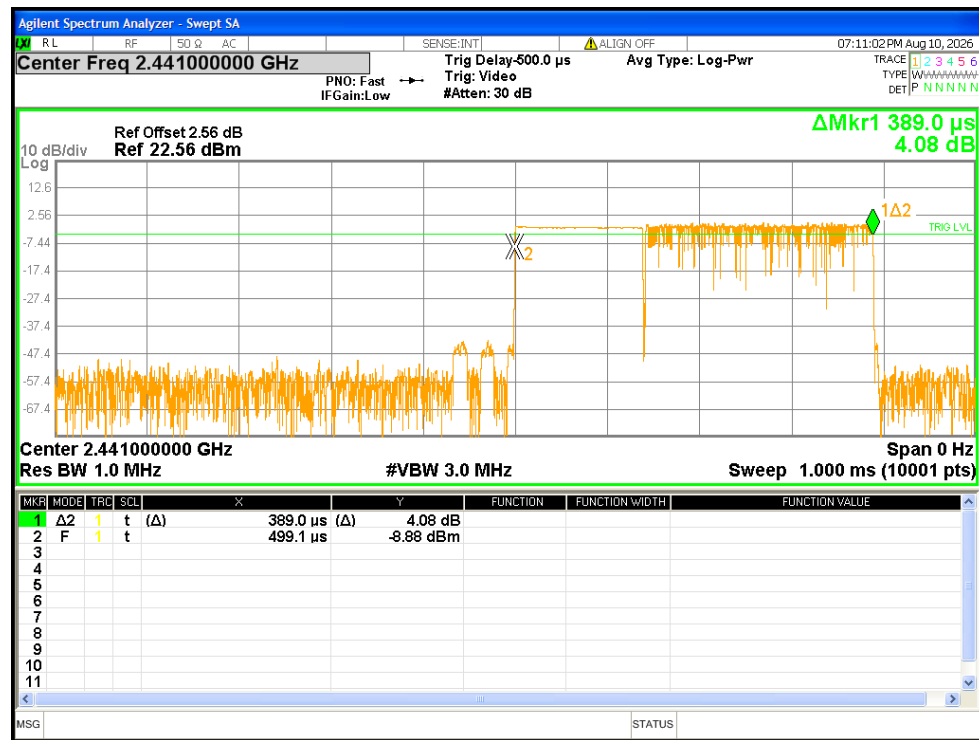
Dwell NVNT 2-DH5 2441MHz One Burst



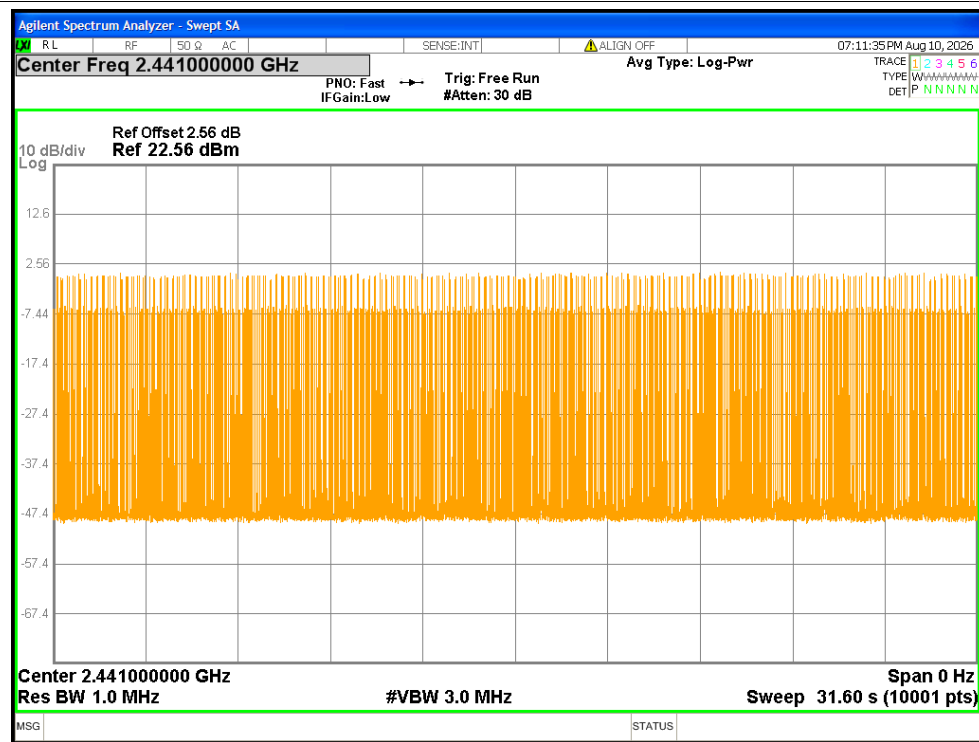
Dwell NVNT 2-DH5 2441MHz Accumulated



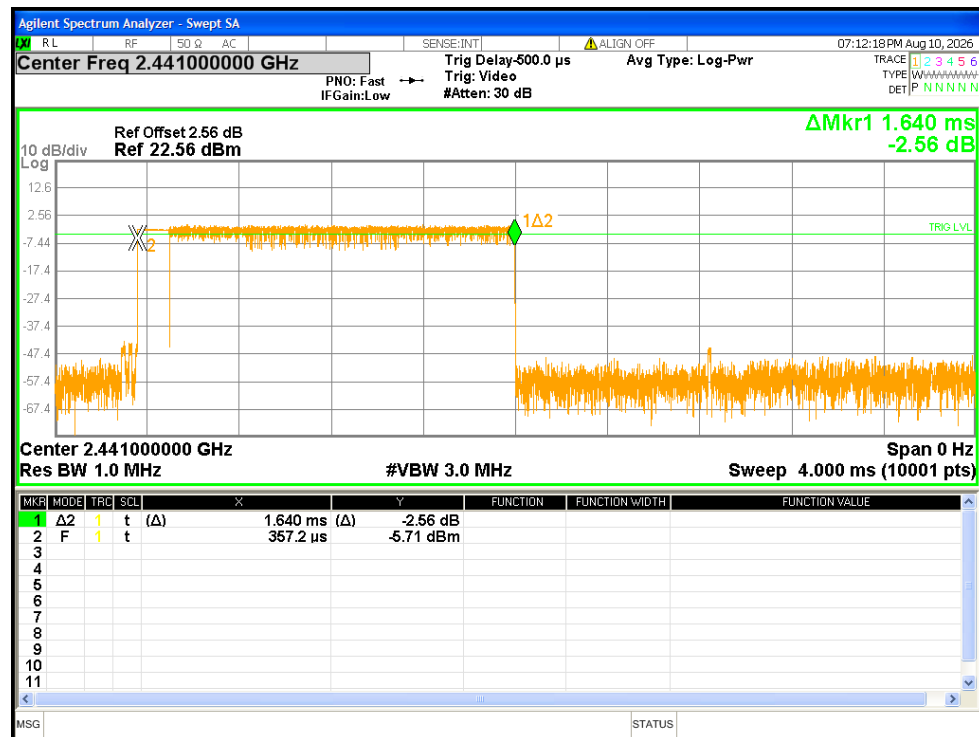
Dwell NVNT 3-DH1 2441MHz One Burst



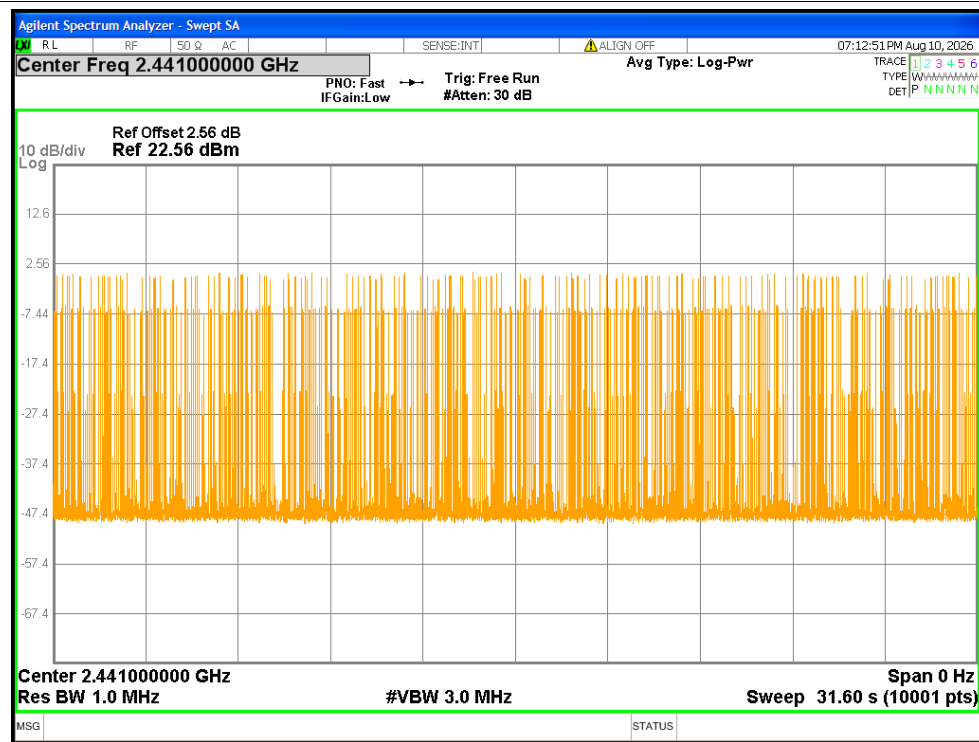
Dwell NVNT 3-DH1 2441MHz Accumulated



Dwell NVNT 3-DH3 2441MHz One Burst



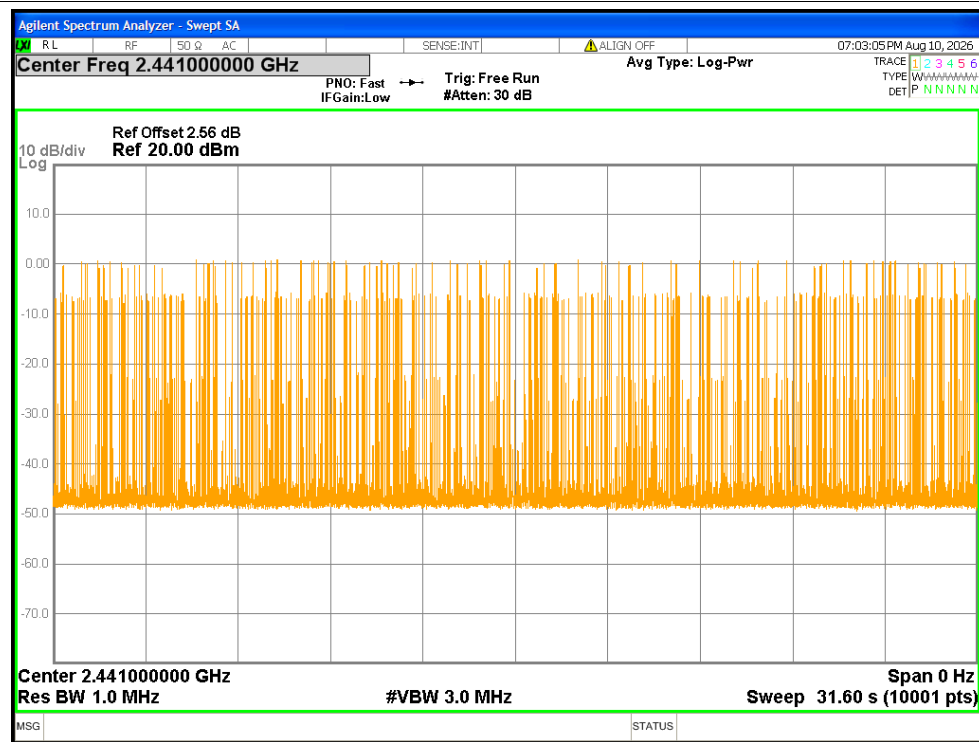
Dwell NVNT 3-DH3 2441MHz Accumulated



Dwell NVNT 3-DH5 2441MHz One Burst



Dwell NVNT 3-DH5 2441MHz Accumulated

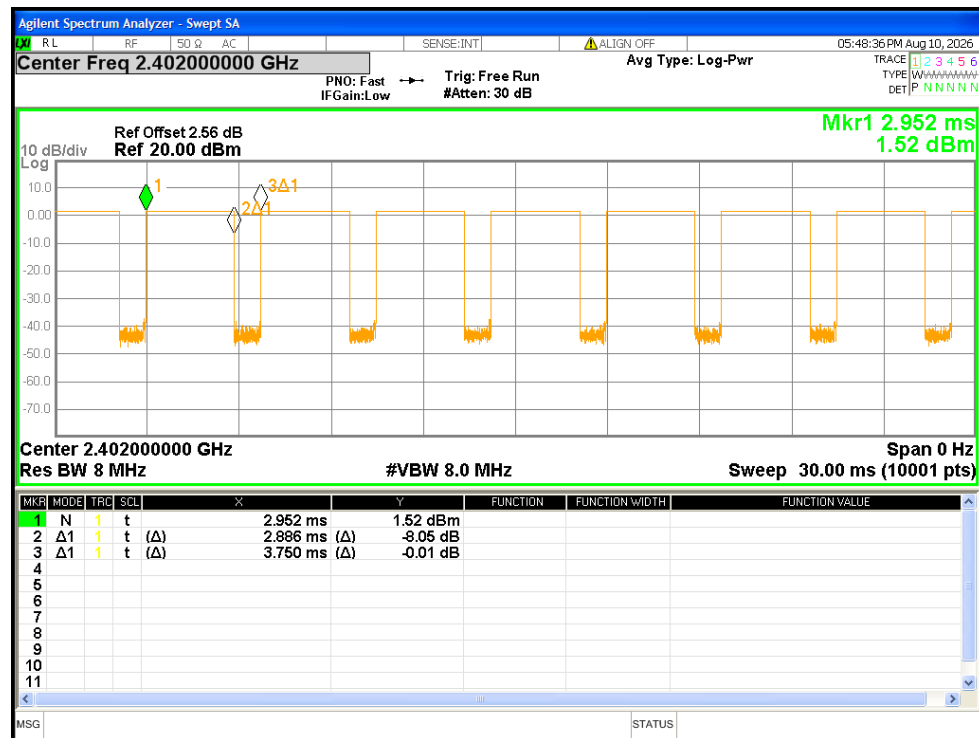


Duty Cycle

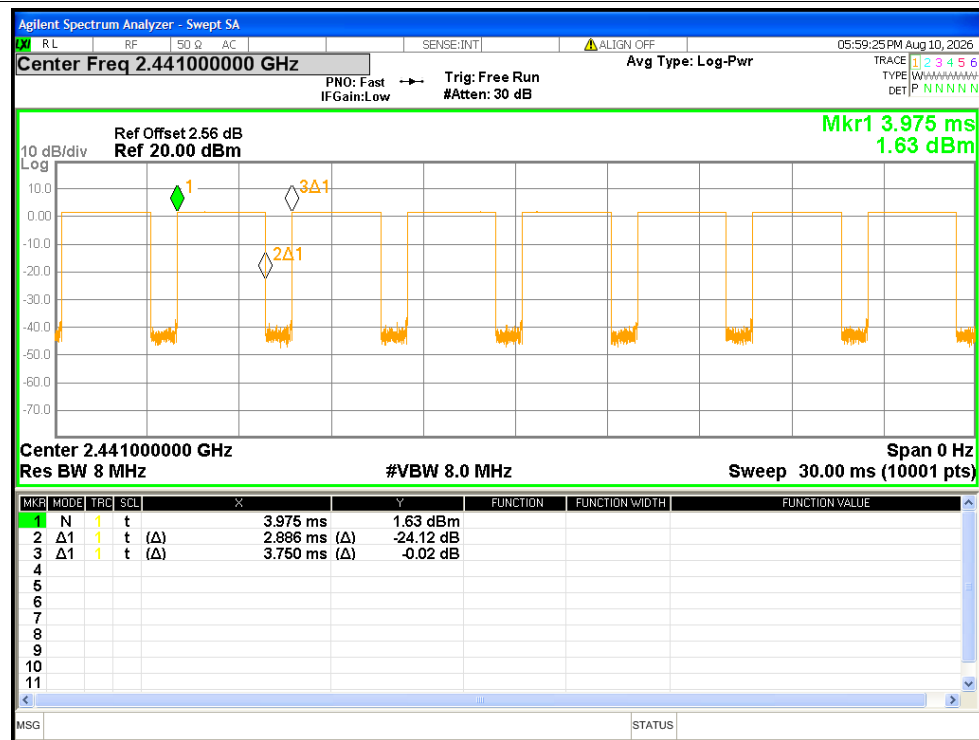
Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
1-DH5	2402	2.886	3.75	76.96	1.14	0.35
1-DH5	2441	2.886	3.75	76.96	1.14	0.35
1-DH5	2480	2.886	3.75	76.96	1.14	0.35
2-DH5	2402	2.892	3.75	77.12	1.13	0.35
2-DH5	2441	2.892	3.75	77.12	1.13	0.35
2-DH5	2480	2.889	3.75	77.04	1.13	0.35
3-DH5	2402	2.892	3.75	77.12	1.13	0.35
3-DH5	2441	2.895	3.75	77.2	1.12	0.35
3-DH5	2480	2.892	3.75	77.12	1.13	0.35

Test Graphs

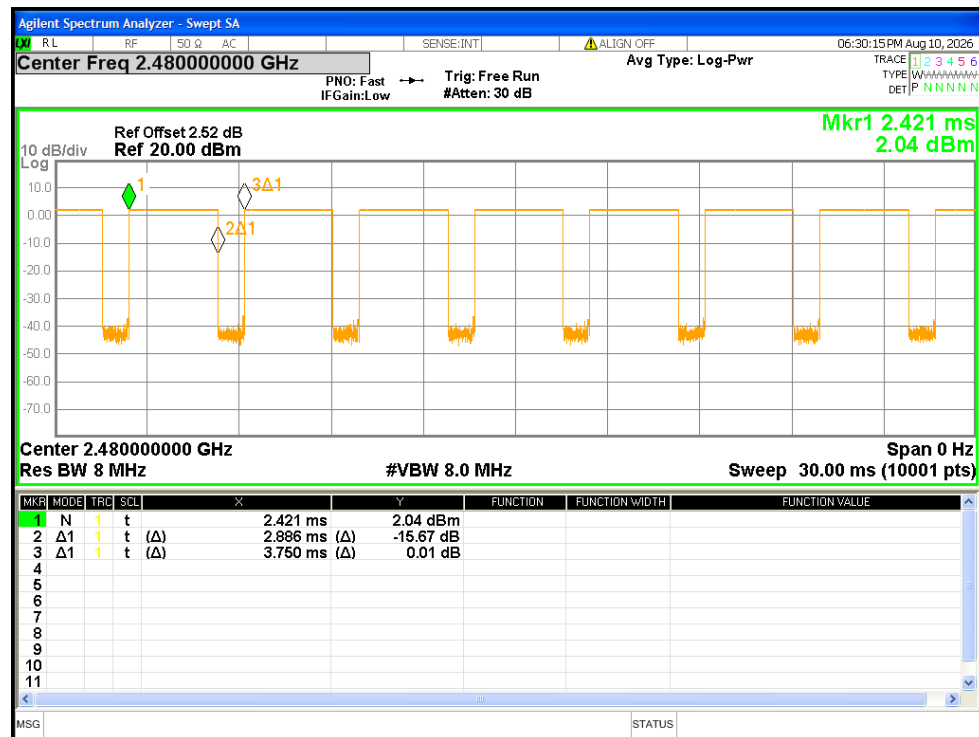
Duty Cycle NVNT 1-DH5 2402MHz



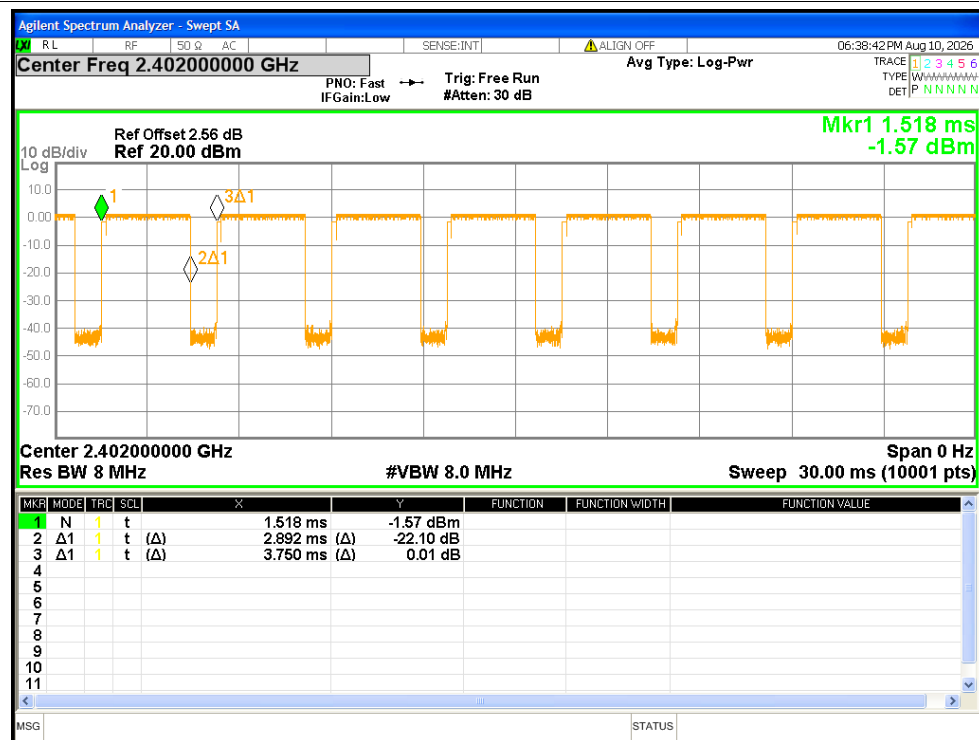
Duty Cycle NVNT 1-DH5 2441MHz



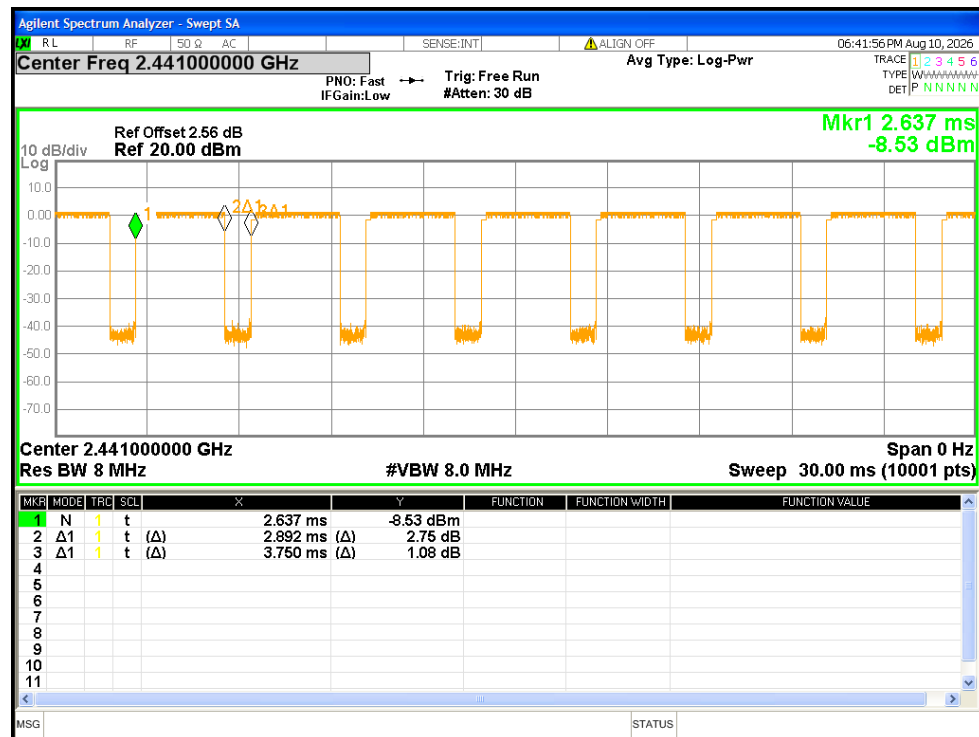
Duty Cycle NVNT 1-DH5 2480MHz



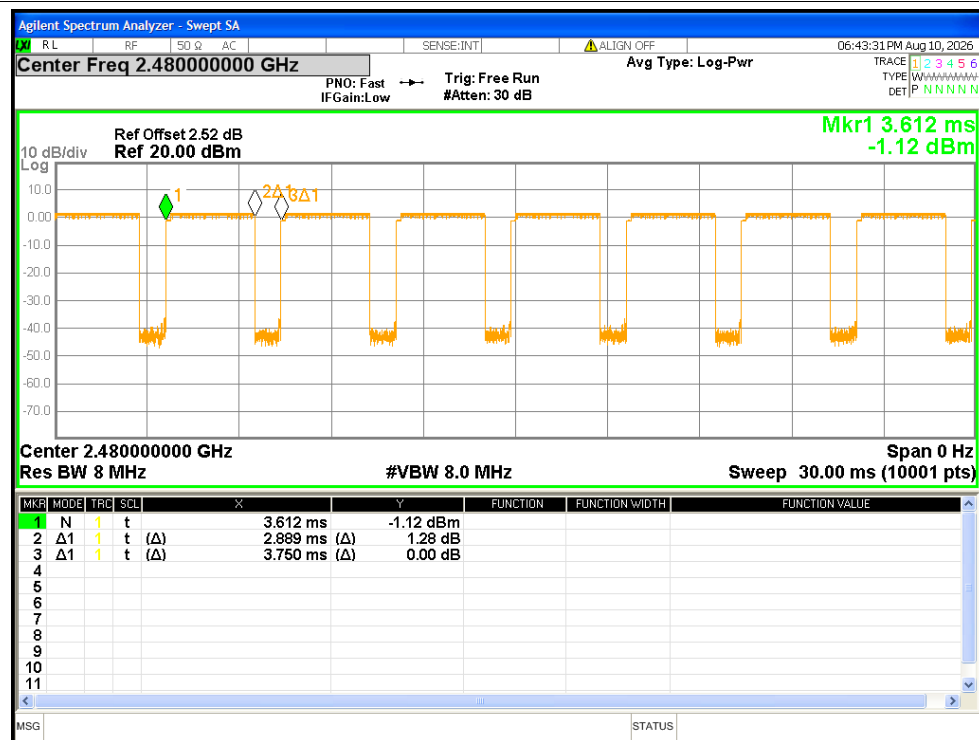
Duty Cycle NVNT 2-DH5 2402MHz



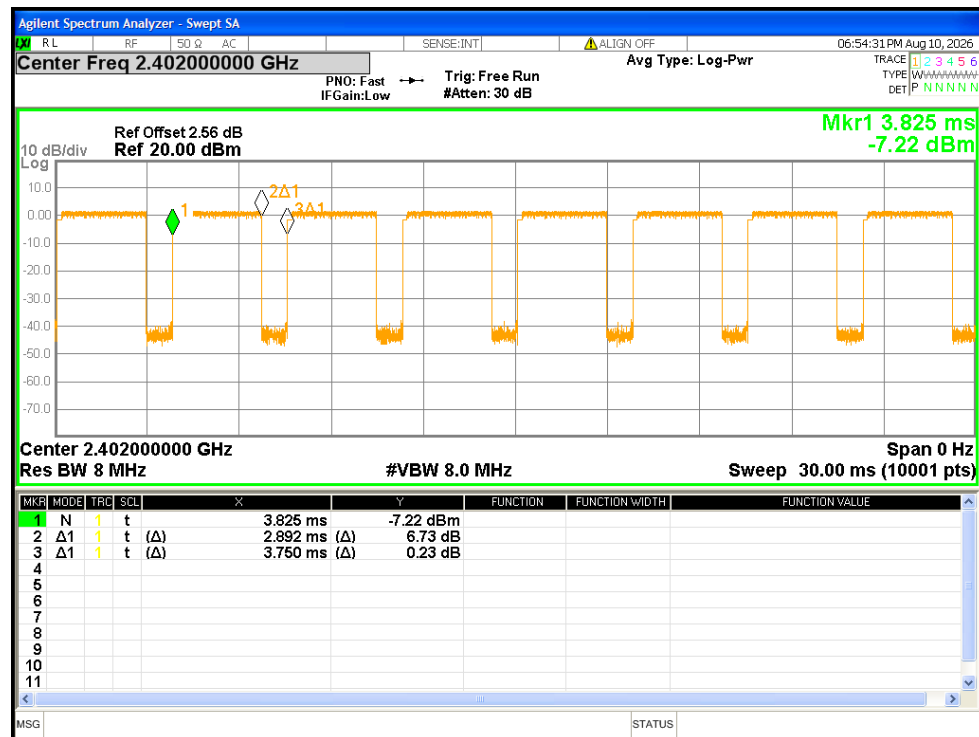
Duty Cycle NVNT 2-DH5 2441MHz



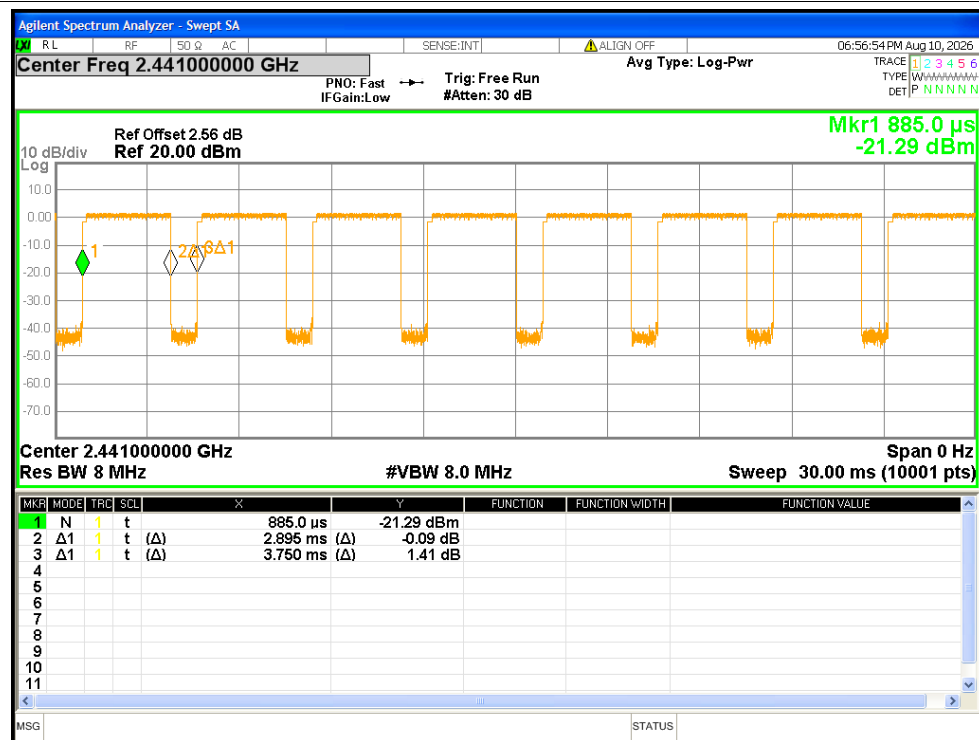
Duty Cycle NVNT 2-DH5 2480MHz



Duty Cycle NVNT 3-DH5 2402MHz



Duty Cycle NVNT 3-DH5 2441MHz



Duty Cycle NVNT 3-DH5 2480MHz

Agilent Spectrum Analyzer - Swept SA

Center Freq **2.480000000 GHz** PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr

06:58:24 PM Aug 10, 2026 TRACE 1 2 3 4 5 6 TYPE W DET P N N N N N N

Ref Offset 2.52 dB Ref 20.00 dBm Mkr1 3.417 ms -1.11 dBm

10 dB/div Log

Center **2.480000000 GHz** Span 0 Hz Res BW **8 MHz** #VBW **8.0 MHz** Sweep **30.00 ms (10001 pts)**

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	3.417 ms	-1.11 dBm			
2	Δ1	1	t (Δ)	2.892 ms (Δ)	-20.08 dB			
3	Δ1	1	t (Δ)	3.750 ms (Δ)	0.03 dB			
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Maximum Peak Conducted Output Power

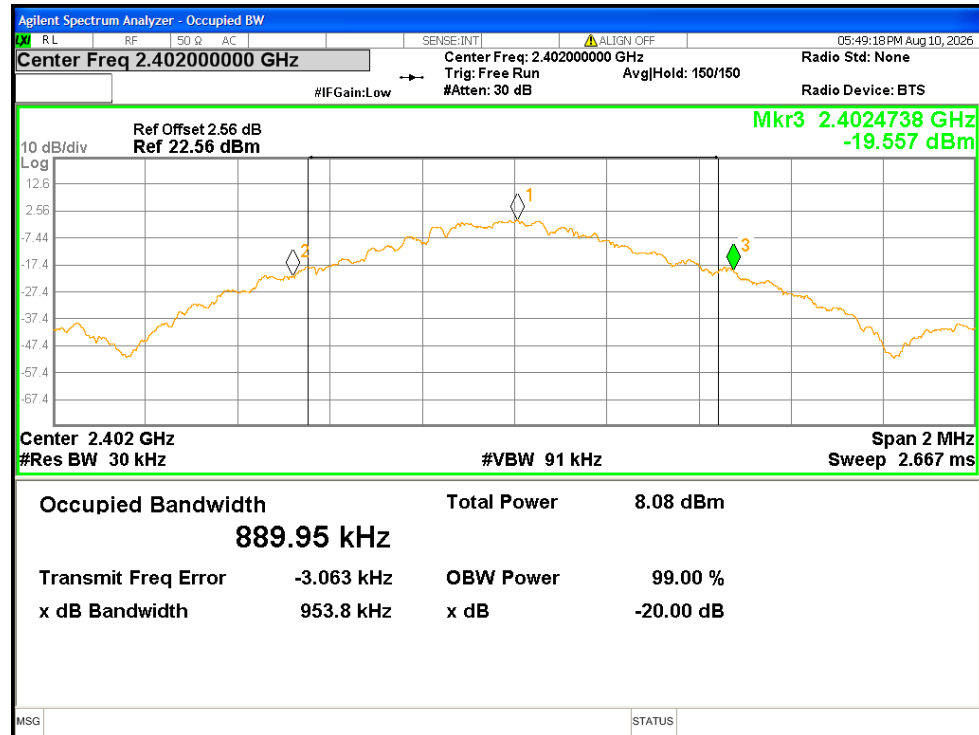
Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
1-DH5	2402	1.56	<=30	Pass
1-DH5	2441	1.65	<=30	Pass
1-DH5	2480	2.05	<=30	Pass
2-DH5	2402	0.58	<=21	Pass
2-DH5	2441	0.56	<=21	Pass
2-DH5	2480	0.97	<=21	Pass
3-DH5	2402	0.77	<=21	Pass
3-DH5	2441	0.81	<=21	Pass
3-DH5	2480	1.19	<=21	Pass

-20dB Bandwidth

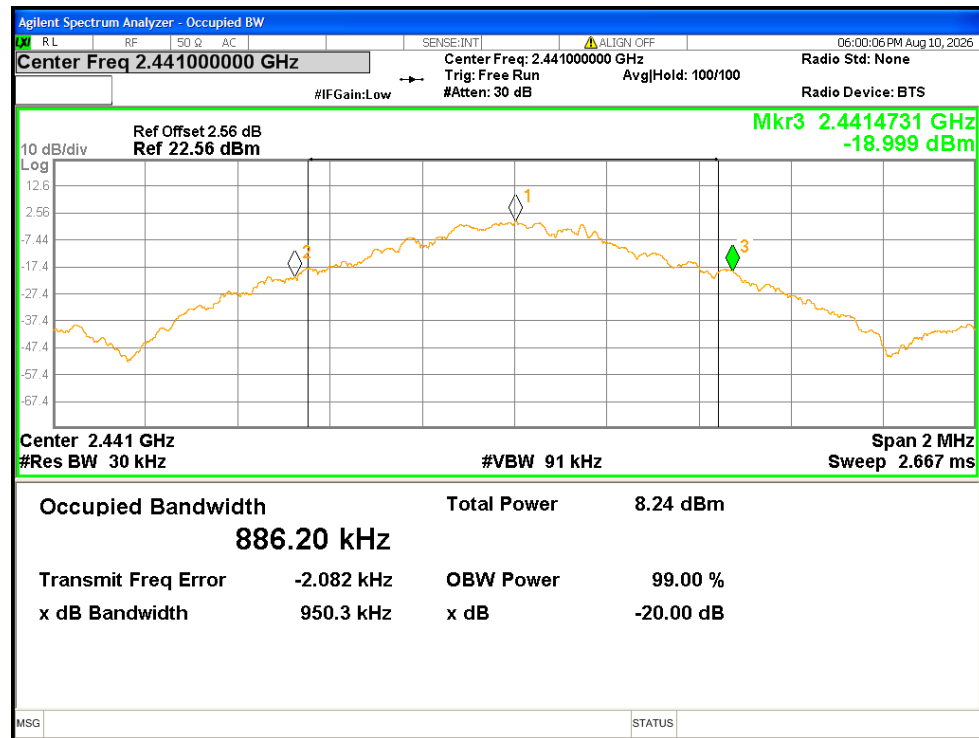
Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
1-DH5	2402	0.9538	Pass
1-DH5	2441	0.9503	Pass
1-DH5	2480	0.9446	Pass
2-DH5	2402	1.482	Pass
2-DH5	2441	1.511	Pass
2-DH5	2480	1.606	Pass
3-DH5	2402	1.475	Pass
3-DH5	2441	1.573	Pass
3-DH5	2480	1.476	Pass

Test Graphs

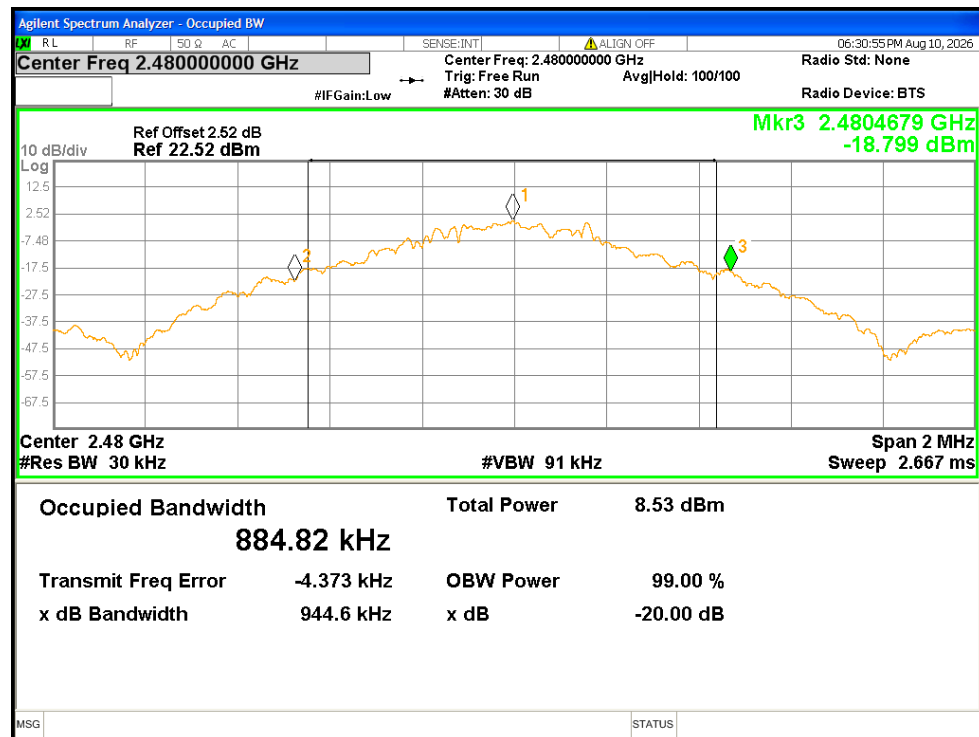
-20dB Bandwidth NVNT 1-DH5 2402MHz



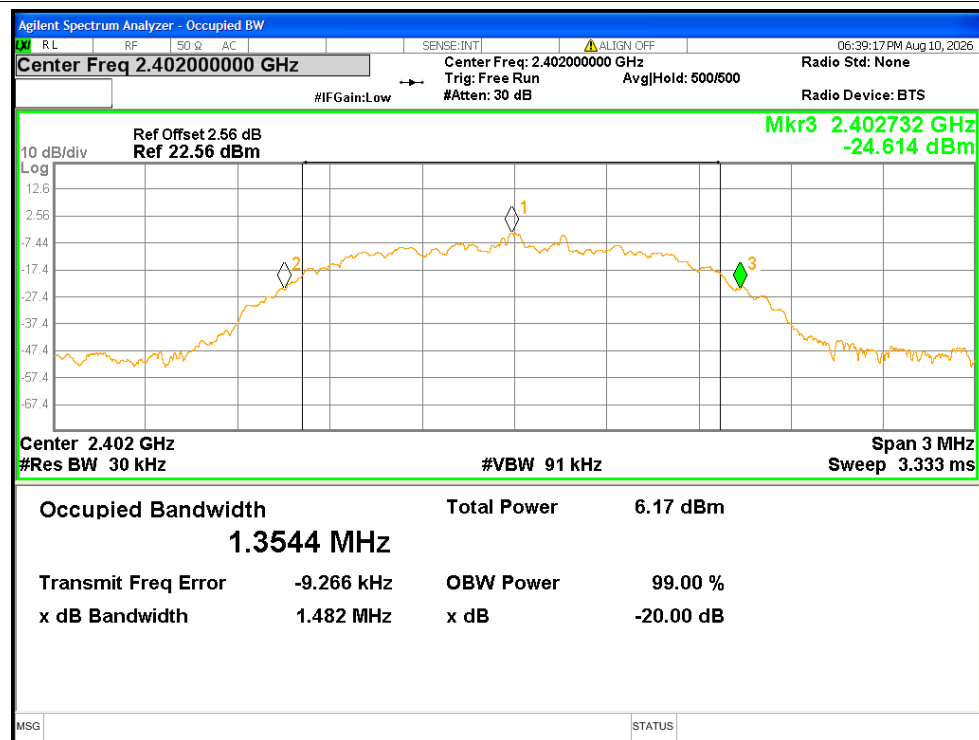
-20dB Bandwidth NVNT 1-DH5 2441MHz



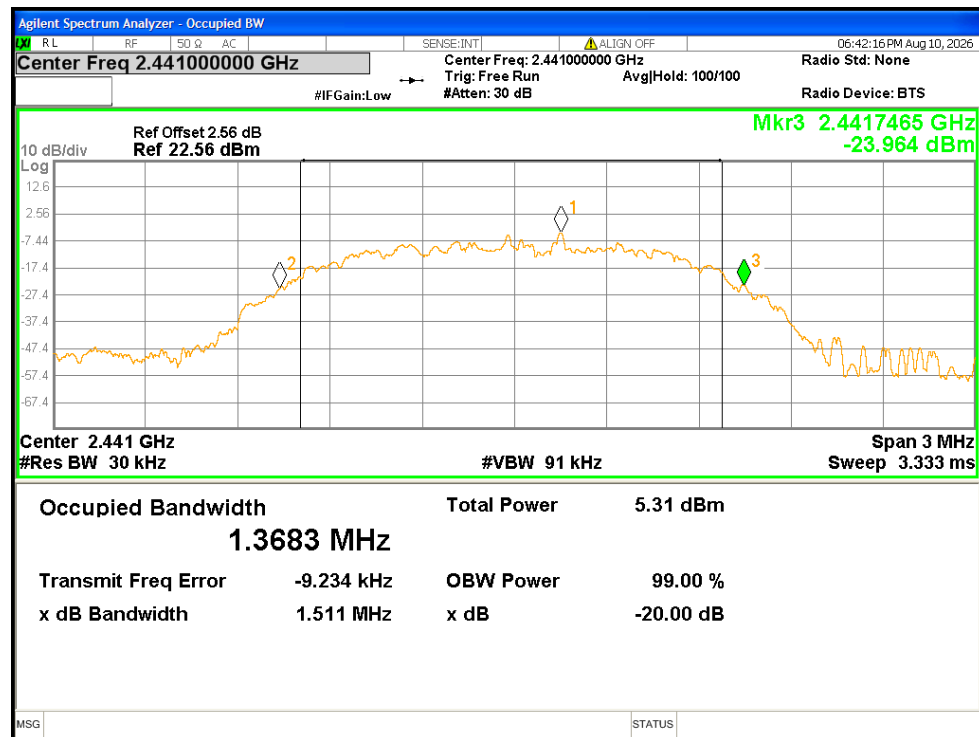
-20dB Bandwidth NVNT 1-DH5 2480MHz



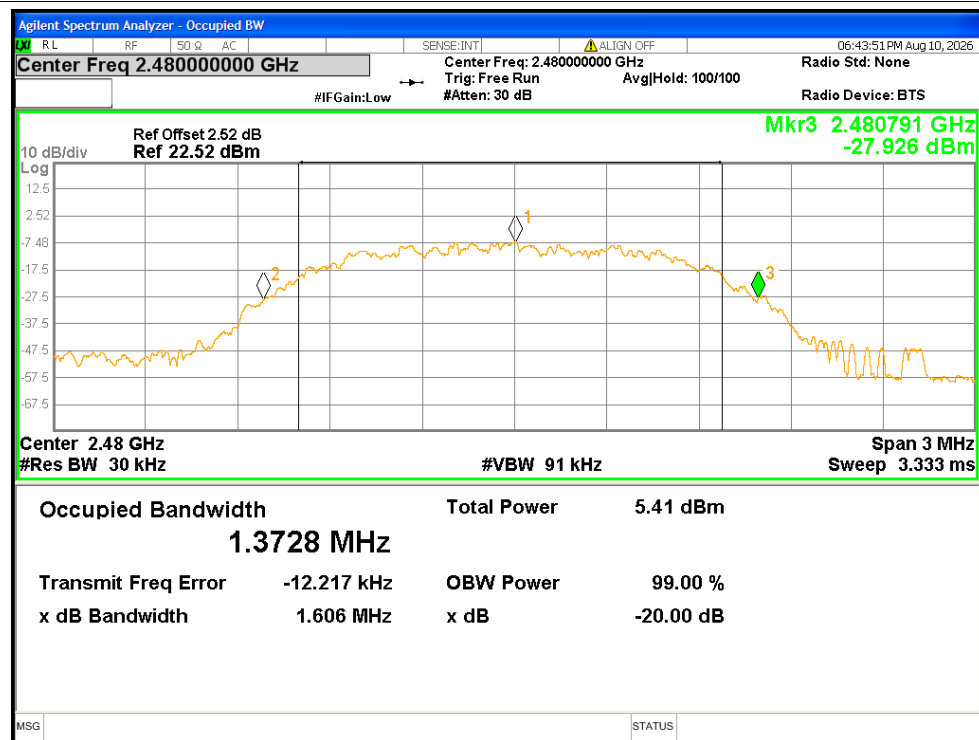
-20dB Bandwidth NVNT 2-DH5 2402MHz



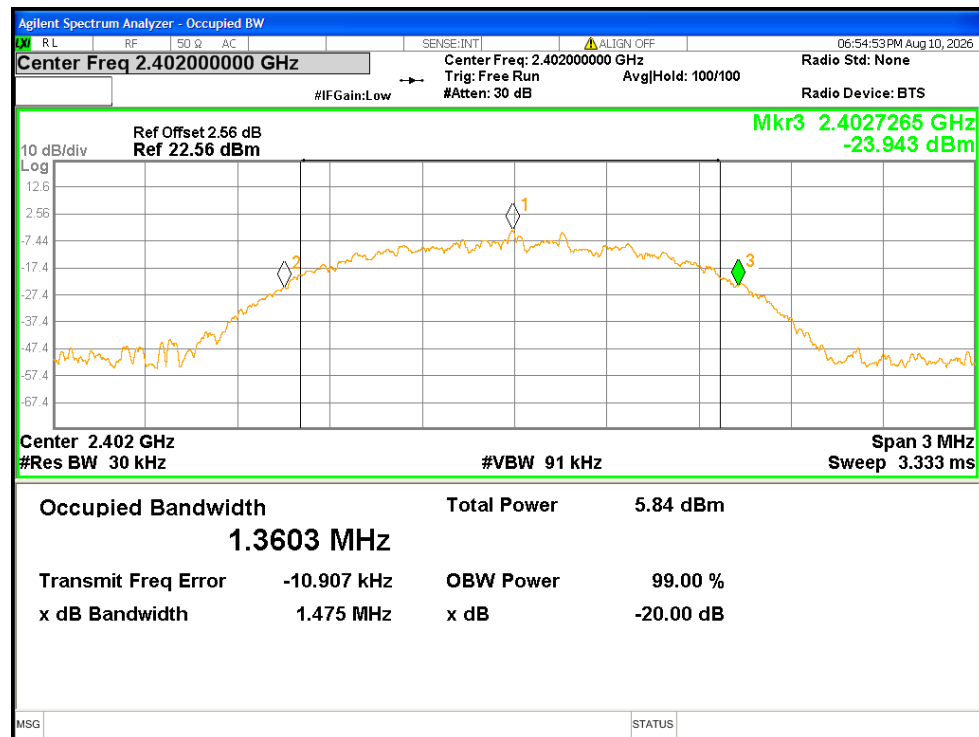
-20dB Bandwidth NVNT 2-DH5 2441MHz



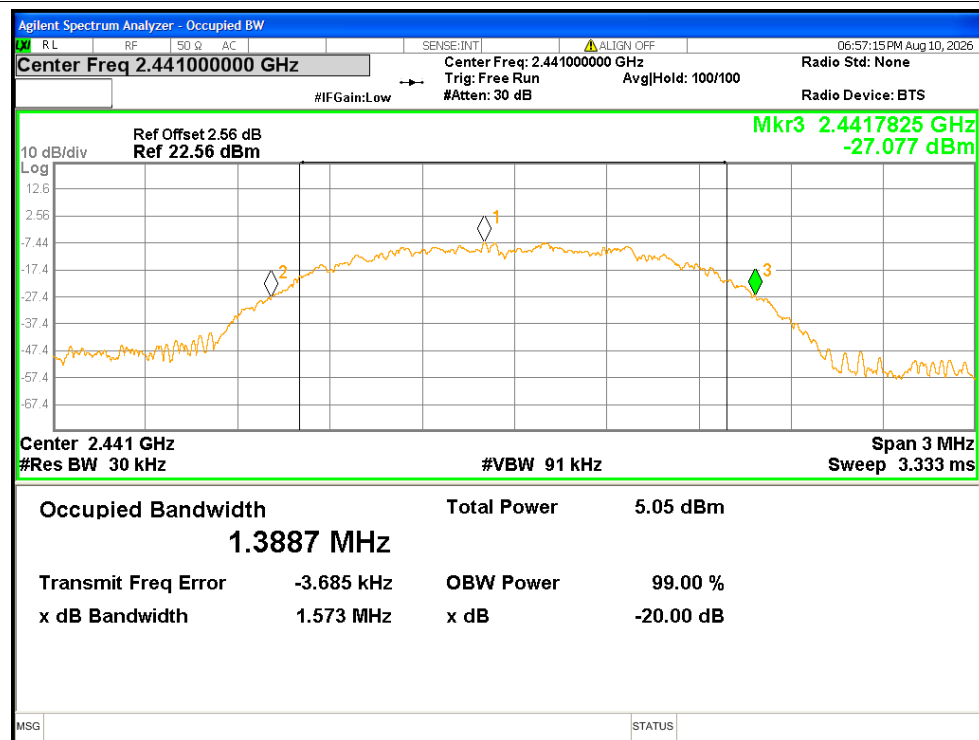
-20dB Bandwidth NVNT 2-DH5 2480MHz



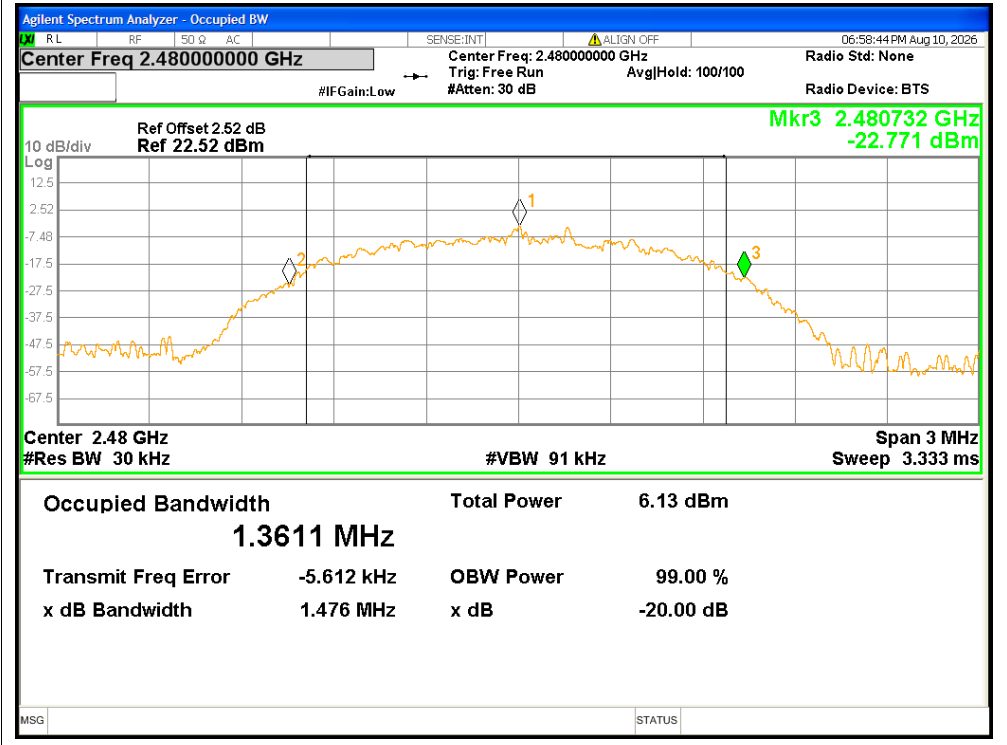
-20dB Bandwidth NVNT 3-DH5 2402MHz



-20dB Bandwidth NVNT 3-DH5 2441MHz



-20dB Bandwidth NVNT 3-DH5 2480MHz

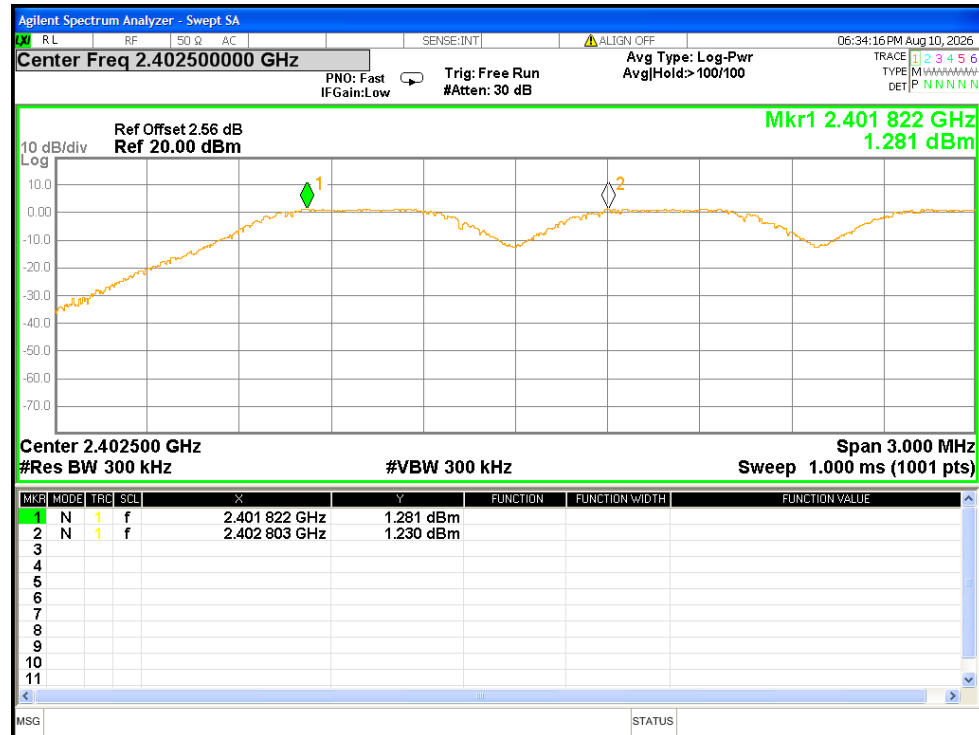


Carrier Frequencies Separation

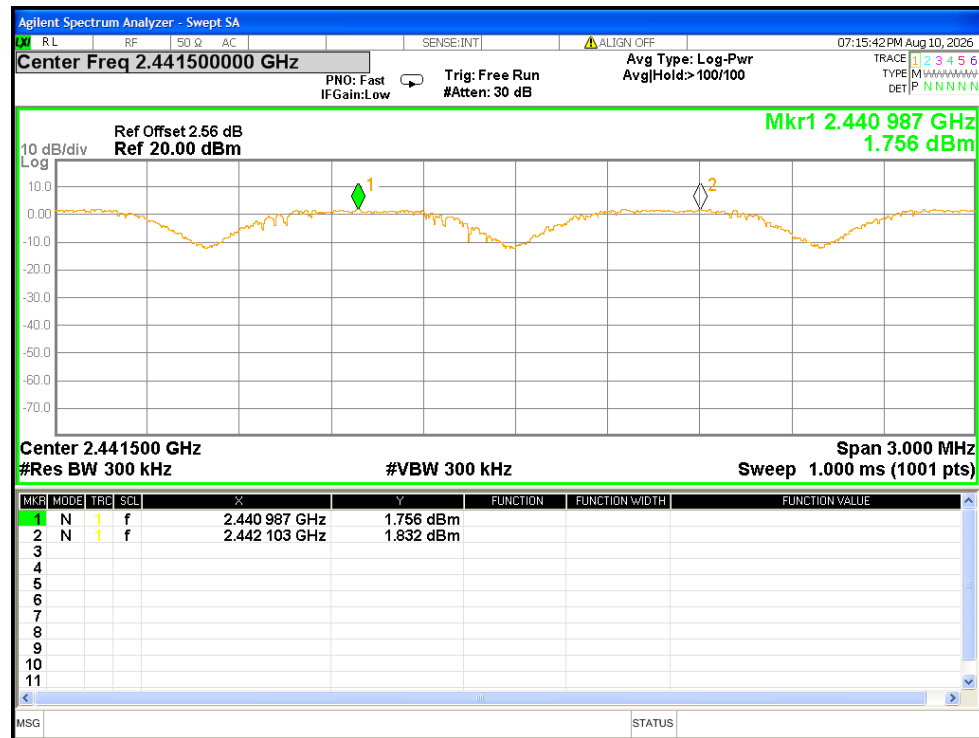
Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
1-DH5	2401.822	2402.803	0.981	≥ 0.954	Pass
1-DH5	2440.987	2442.103	1.116	≥ 0.950	Pass
1-DH5	2478.99	2480.124	1.134	≥ 0.945	Pass
2-DH5	2401.867	2402.866	0.999	≥ 0.988	Pass
2-DH5	2440.861	2442.154	1.293	≥ 1.007	Pass
2-DH5	2478.822	2480.109	1.287	≥ 1.071	Pass
3-DH5	2401.858	2403.028	1.17	≥ 0.983	Pass
3-DH5	2441.107	2442.181	1.074	≥ 1.049	Pass
3-DH5	2478.936	2480.175	1.239	≥ 0.984	Pass

Test Graphs

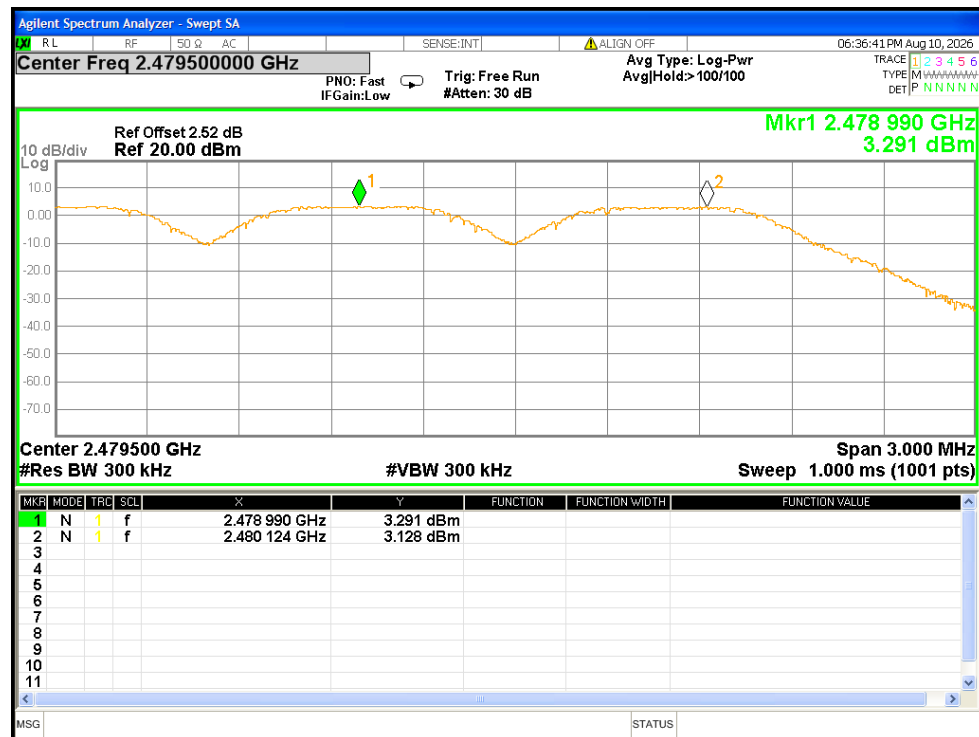
CFS NVNT 1-DH5 2402MHz



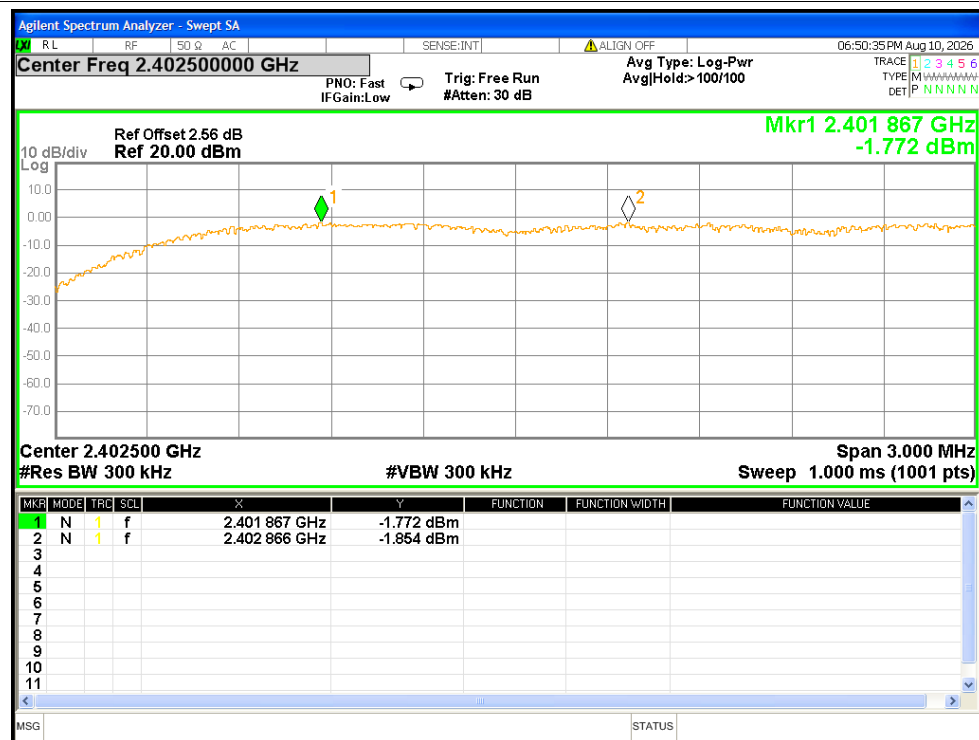
CFS NVNT 1-DH5 2441MHz



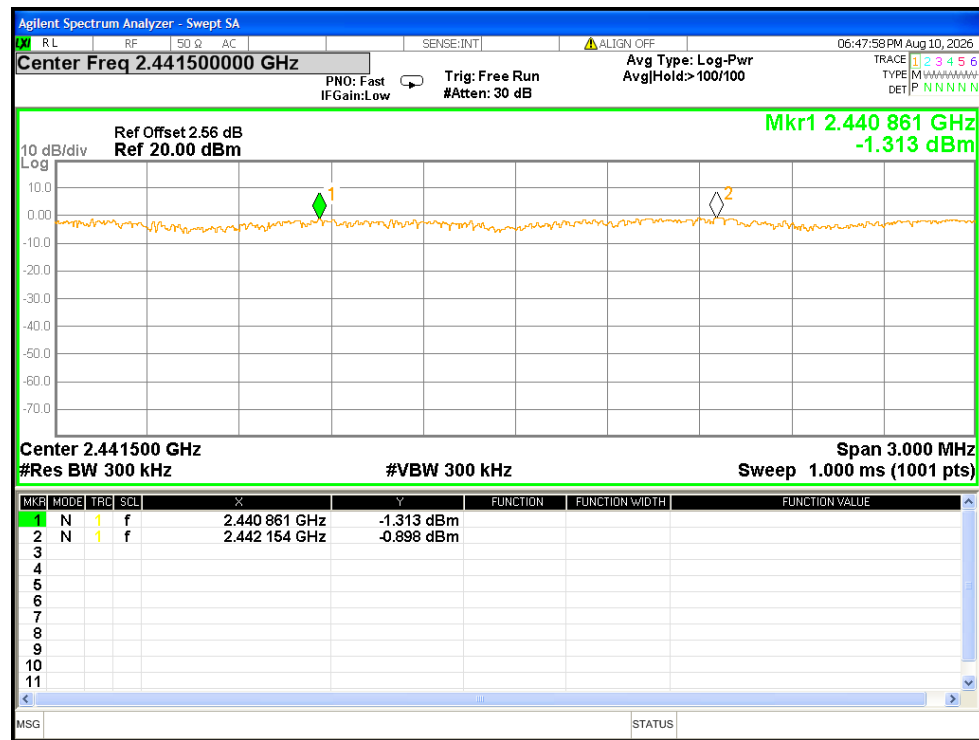
CFS NVNT 1-DH5 2480MHz



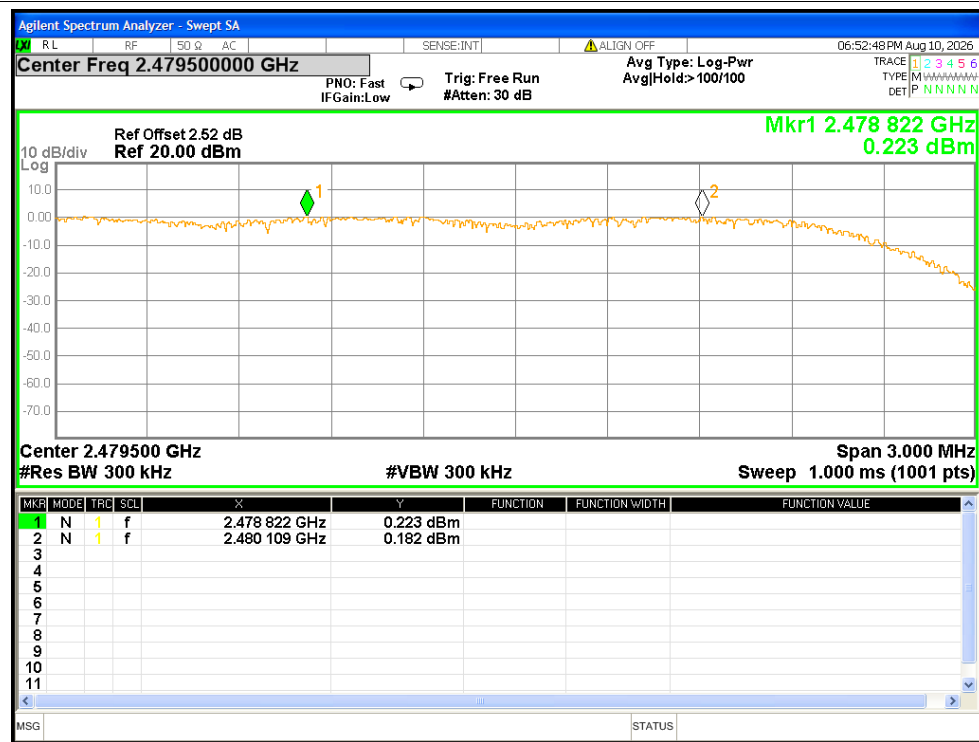
CFS NVNT 2-DH5 2402MHz



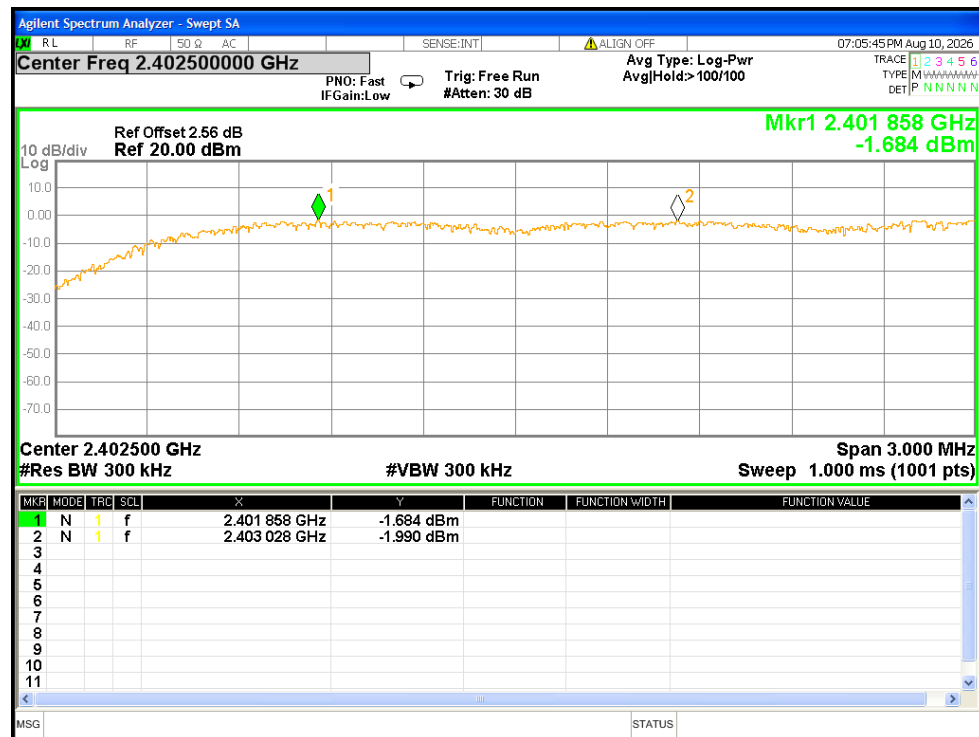
CFS NVNT 2-DH5 2441MHz



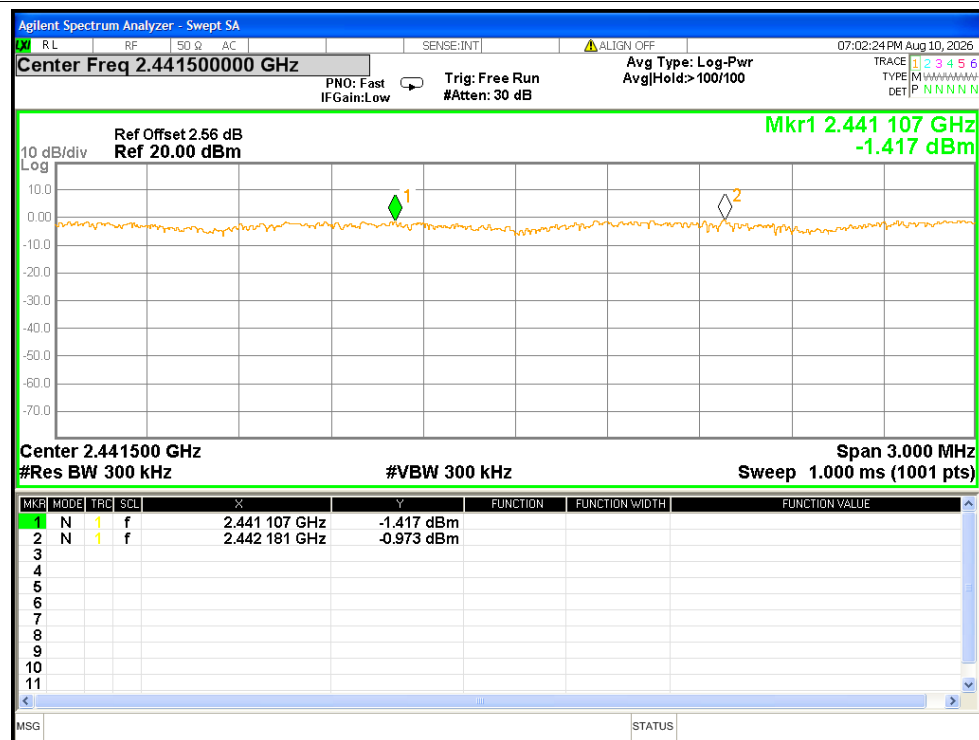
CFS NVNT 2-DH5 2480MHz



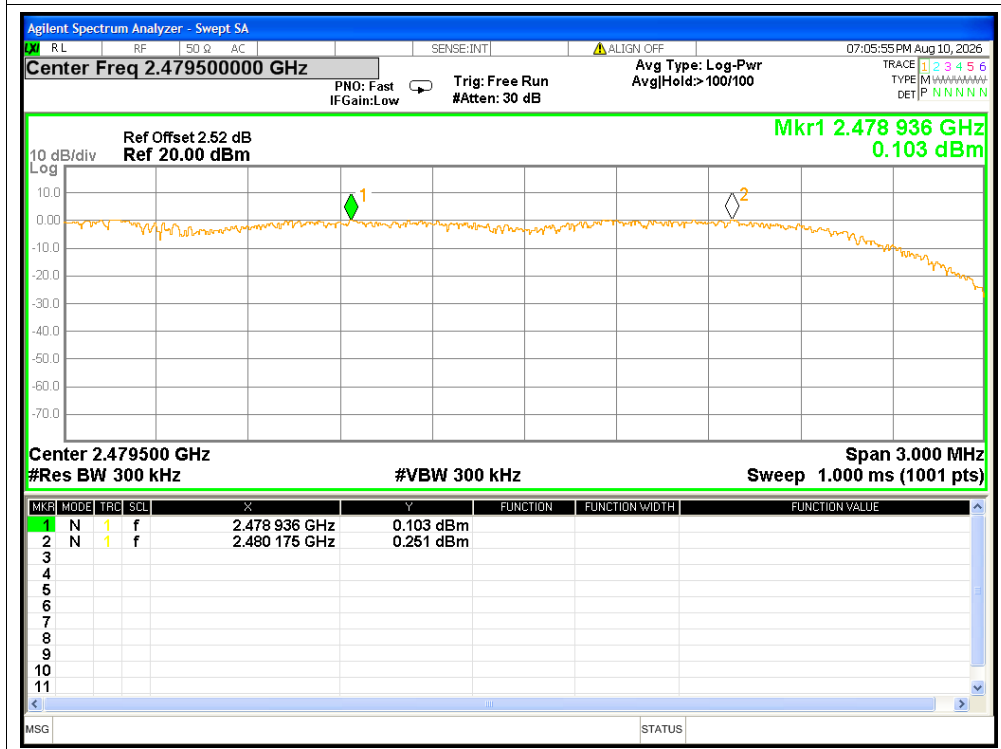
CFS NVNT 3-DH5 2402MHz



CFS NVNT 3-DH5 2441MHz



CFS NVNT 3-DH5 2480MHz

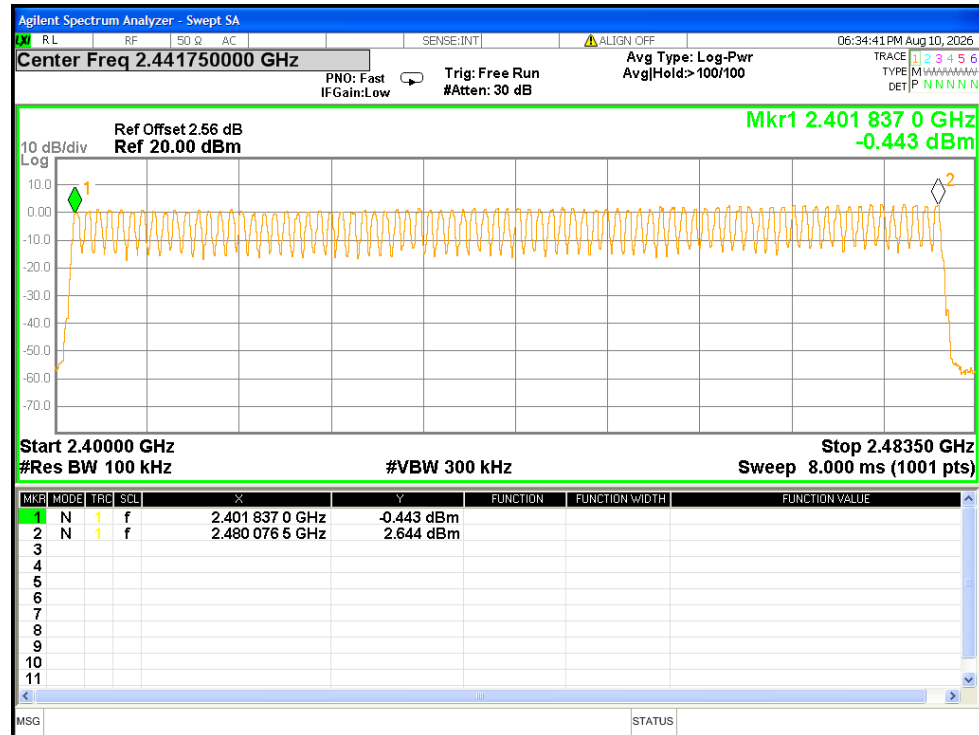


Number of Hopping Channel

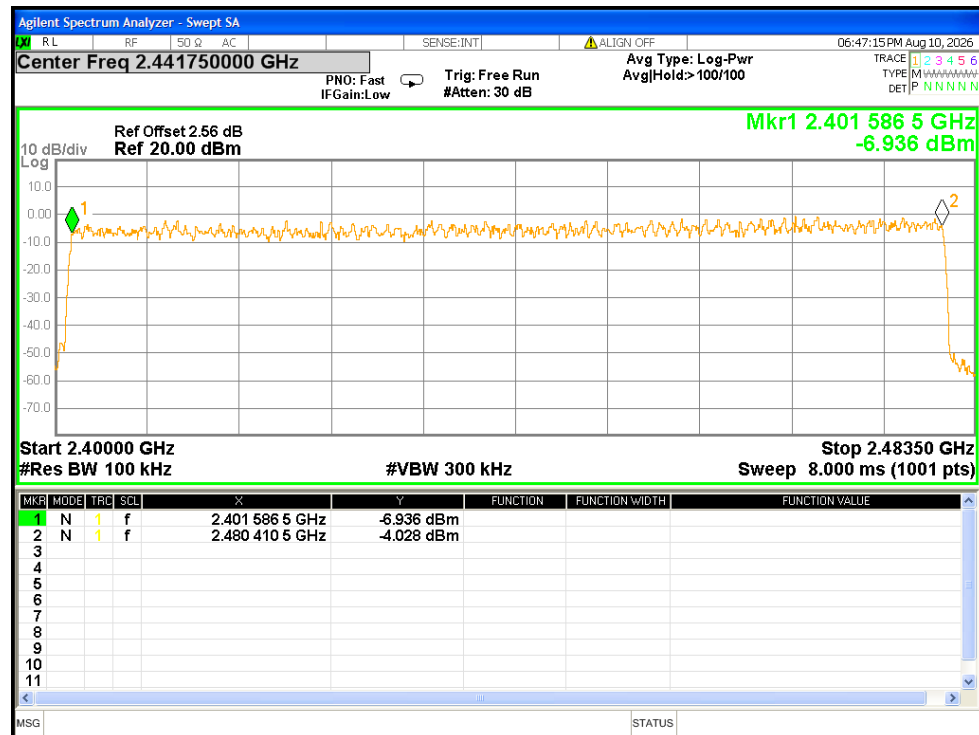
Mode	Hopping Number	Limit	Verdict
1-DH5	79	≥ 15	Pass
2-DH5	79	≥ 15	Pass
3-DH5	79	≥ 15	Pass

Test Graphs

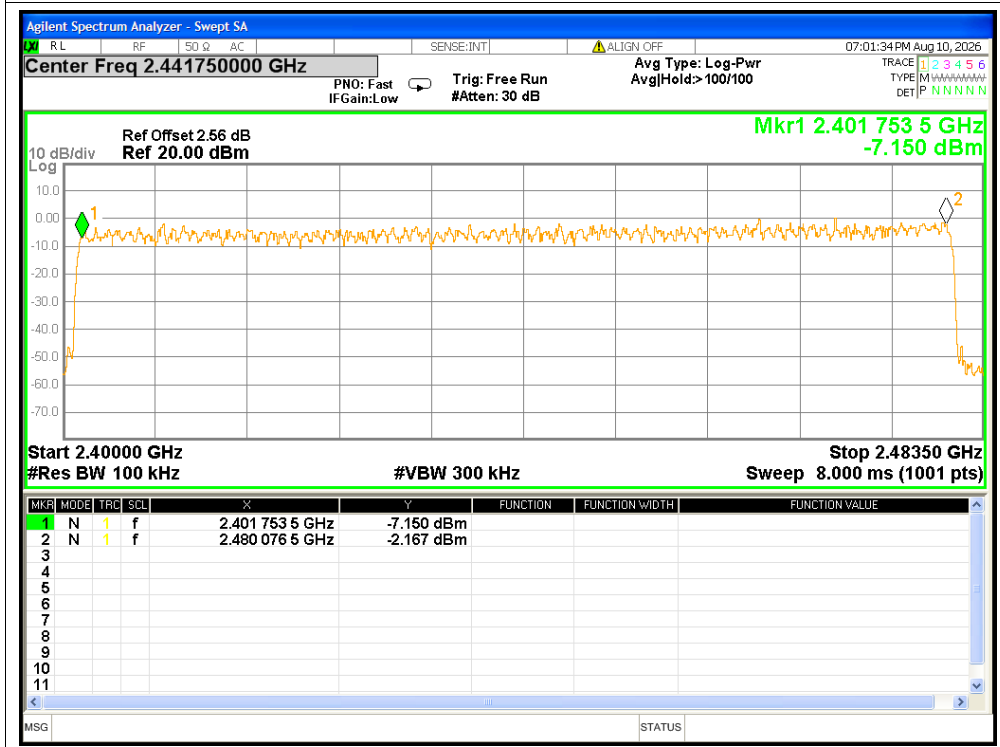
Hopping No. NVNT 1-DH5 Hopping



Hopping No. NVNT 2-DH5 Hopping



Hopping No. NVNT 3-DH5 Hopping

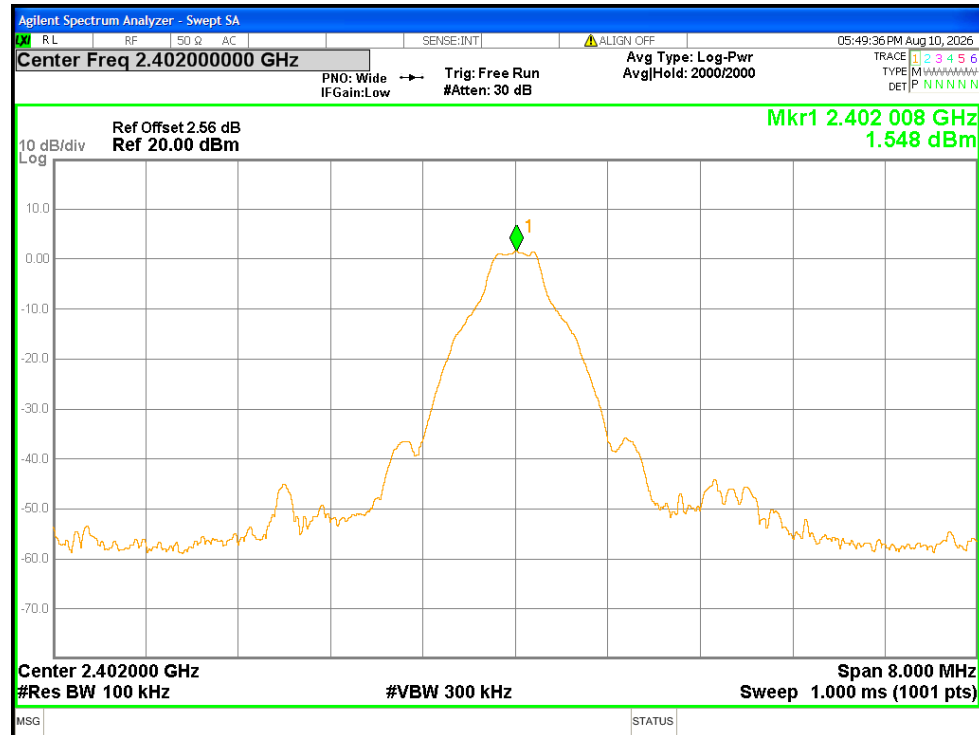


Band Edge

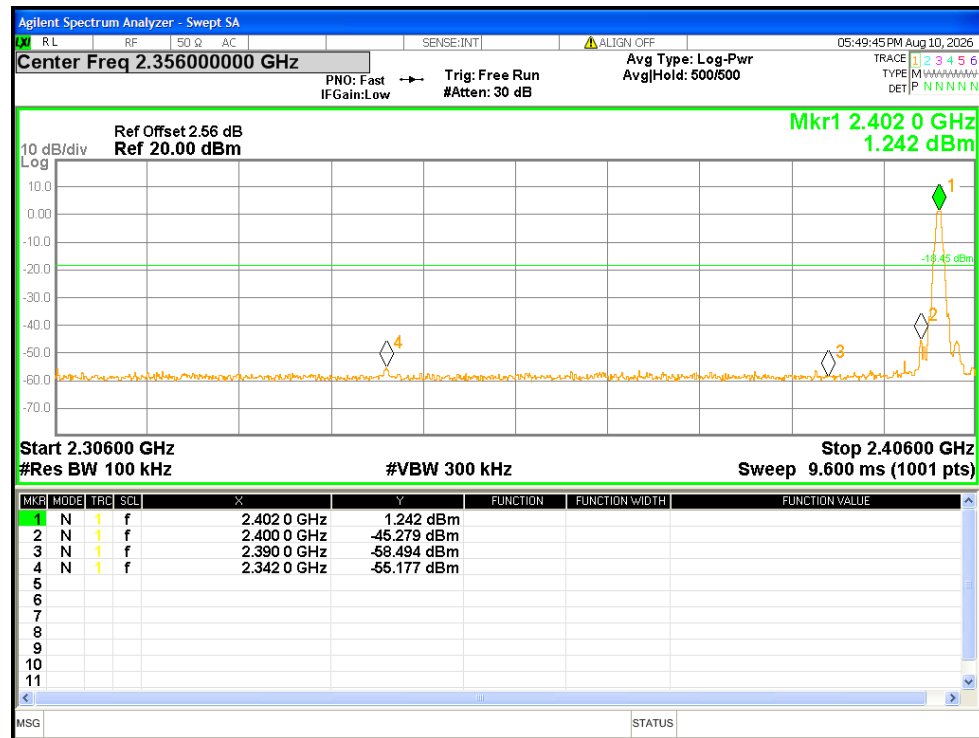
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	No-Hopping	-56.72	<=-20	Pass
1-DH5	2480	No-Hopping	-48.57	<=-20	Pass
2-DH5	2402	No-Hopping	-54.6	<=-20	Pass
2-DH5	2480	No-Hopping	-46.88	<=-20	Pass
3-DH5	2402	No-Hopping	-54.53	<=-20	Pass
3-DH5	2480	No-Hopping	-45.75	<=-20	Pass

Test Graphs

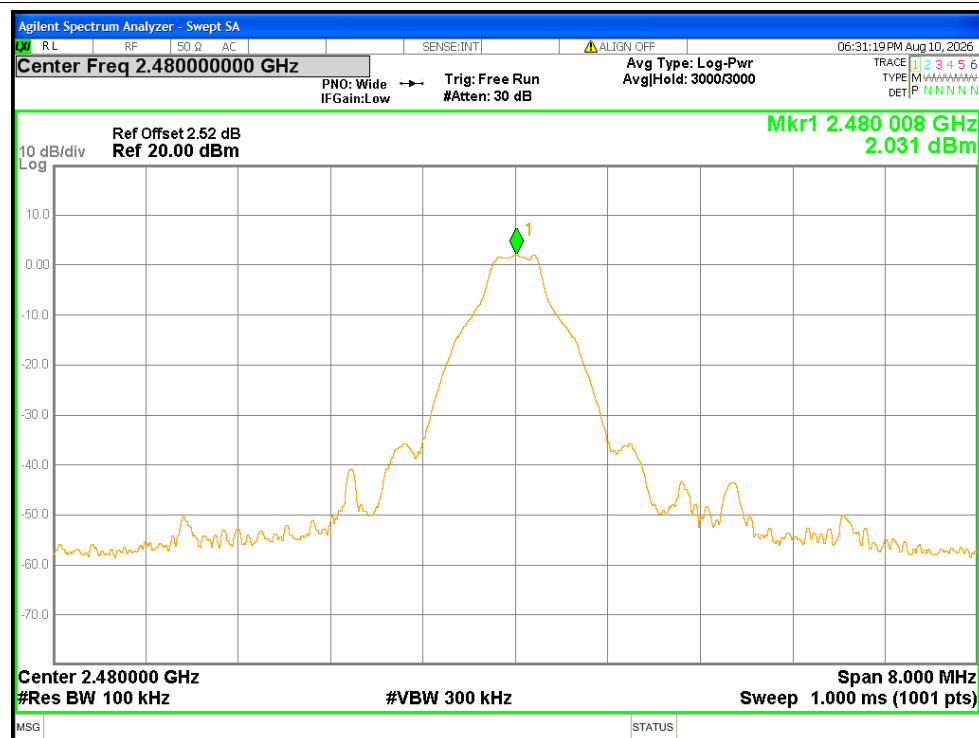
Band Edge NVNT 1-DH5 2402MHz No-Hopping Ref



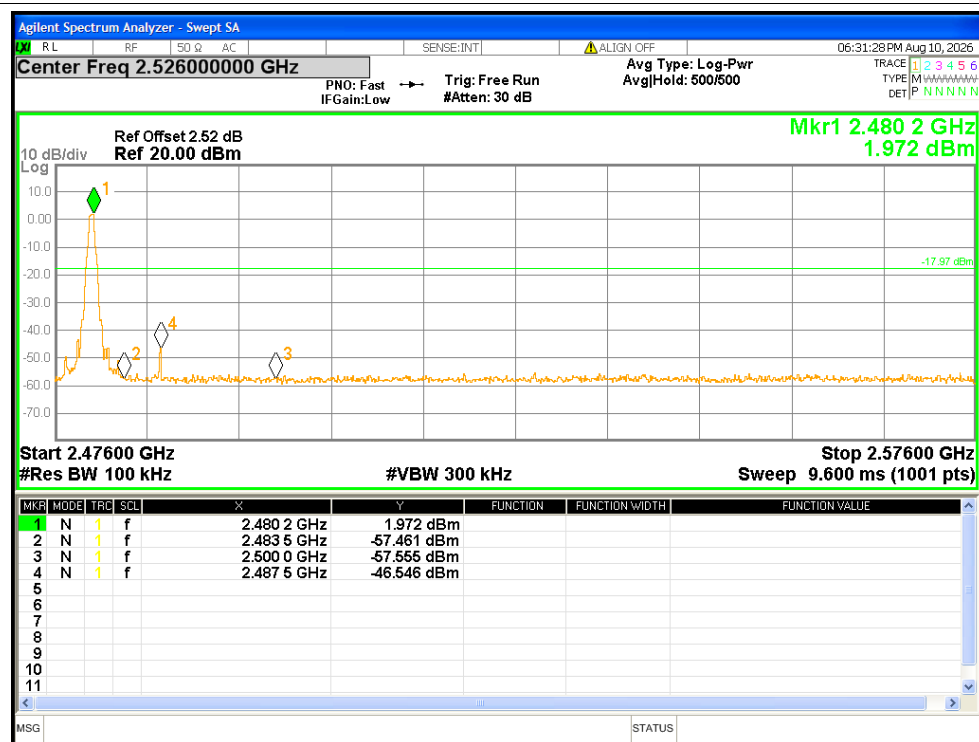
Band Edge NVNT 1-DH5 2402MHz No-Hopping Emission



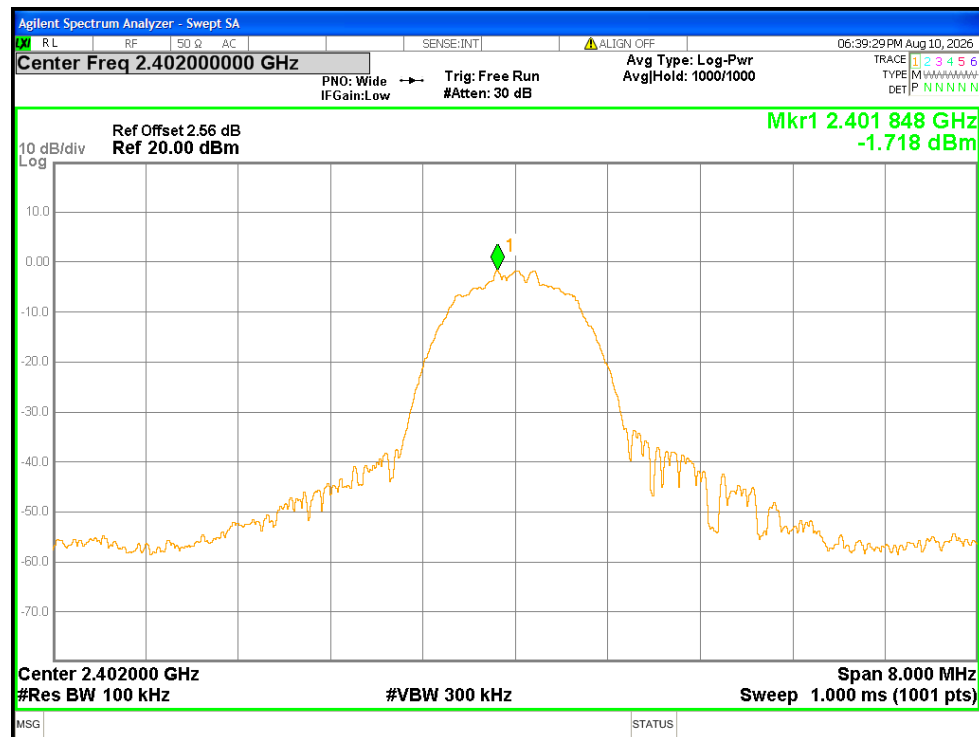
Band Edge NVNT 1-DH5 2480MHz No-Hopping Ref



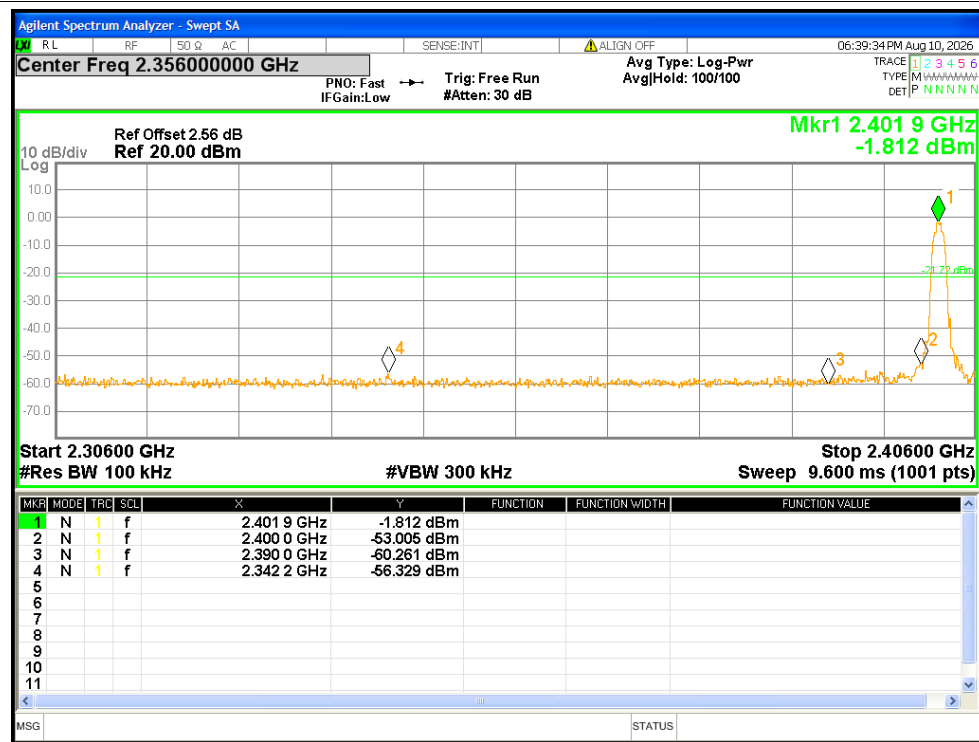
Band Edge NVNT 1-DH5 2480MHz No-Hopping Emission



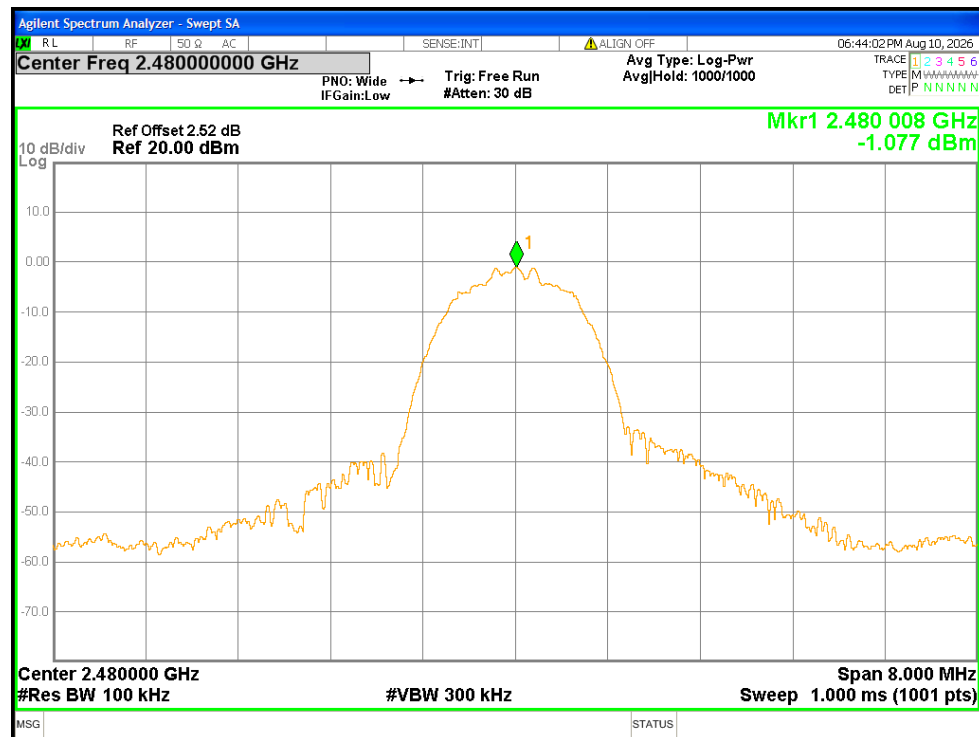
Band Edge NVNT 2-DH5 2402MHz No-Hopping Ref



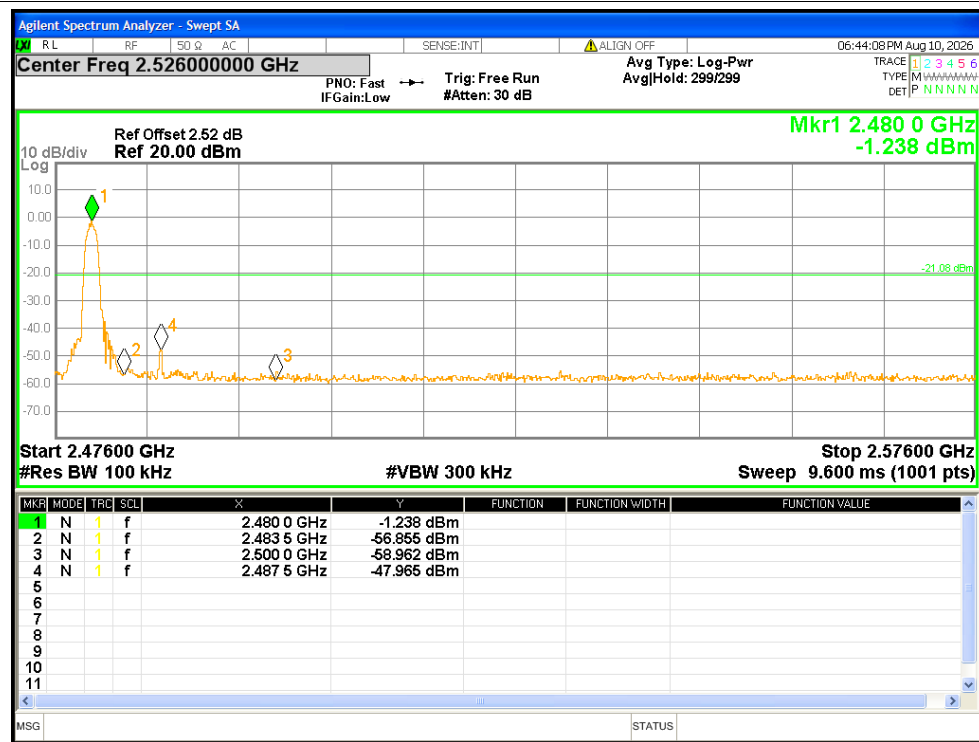
Band Edge NVNT 2-DH5 2402MHz No-Hopping Emission



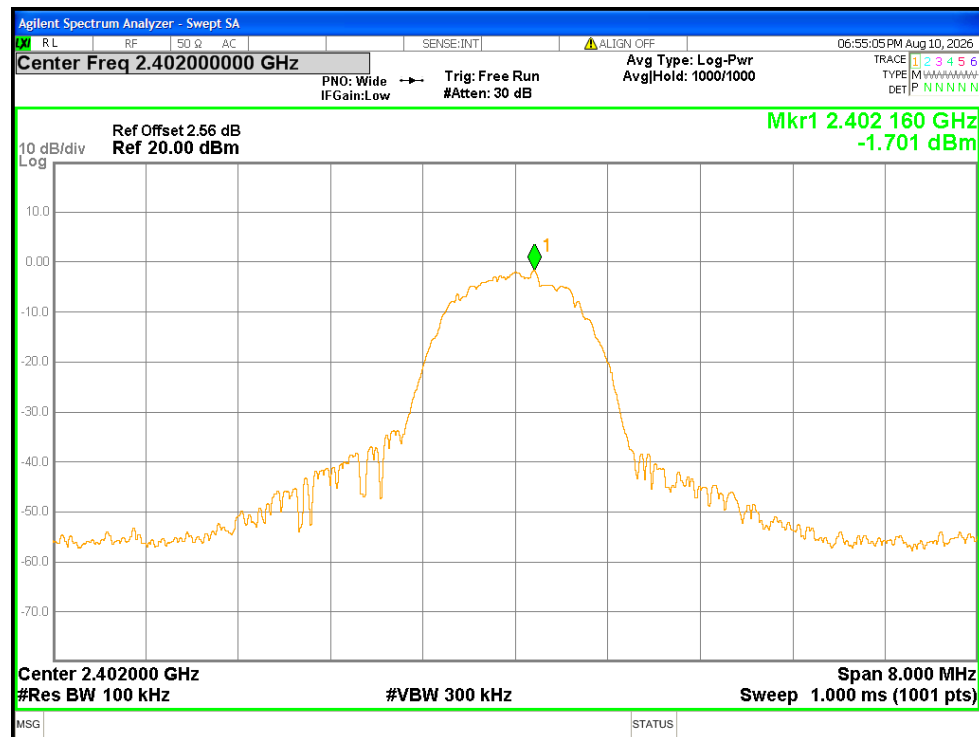
Band Edge NVNT 2-DH5 2480MHz No-Hopping Ref



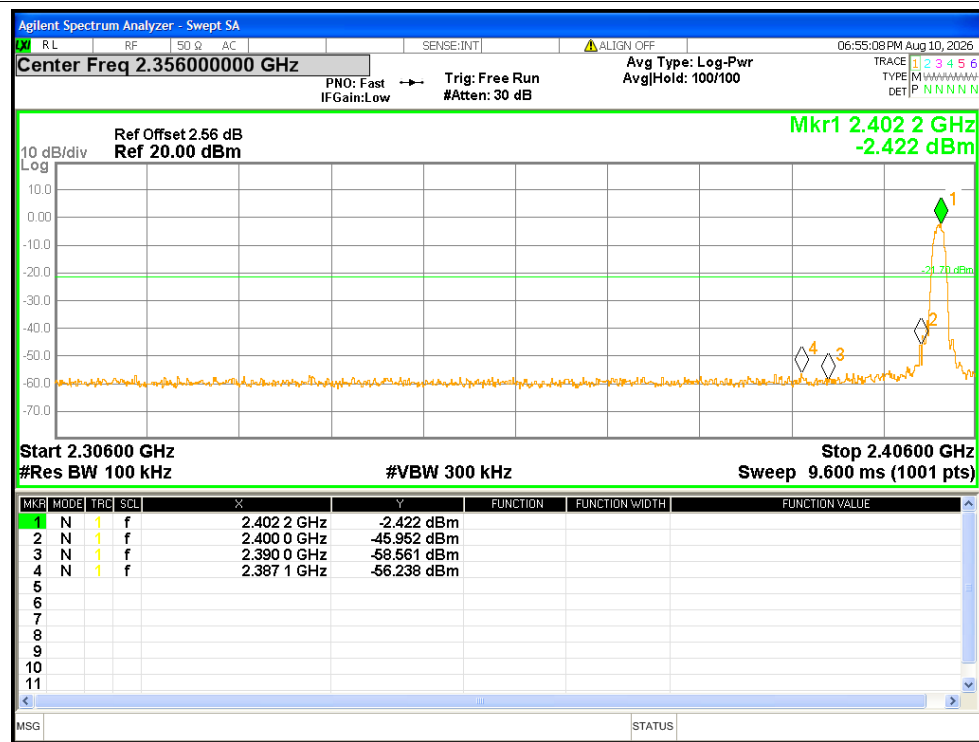
Band Edge NVNT 2-DH5 2480MHz No-Hopping Emission



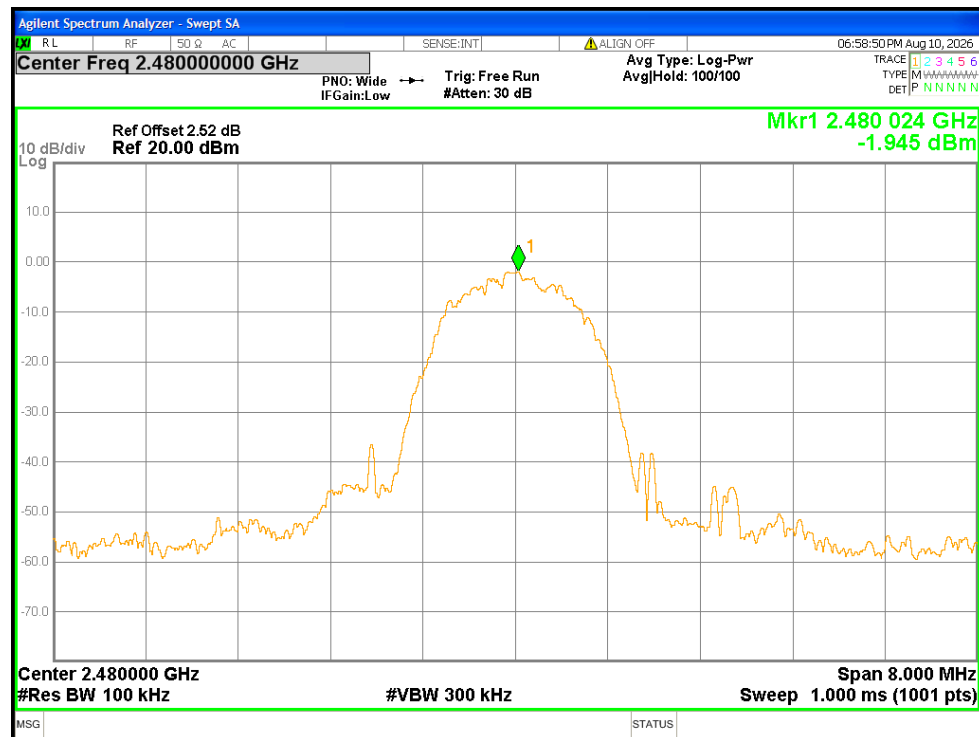
Band Edge NVNT 3-DH5 2402MHz No-Hopping Ref



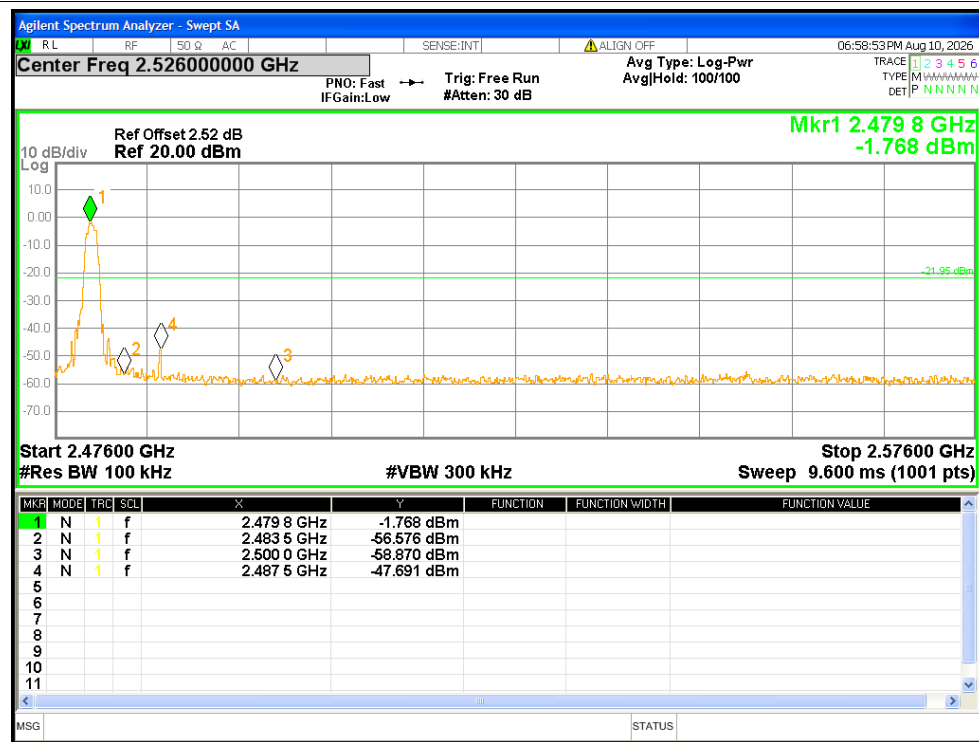
Band Edge NVNT 3-DH5 2402MHz No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz No-Hopping Emission

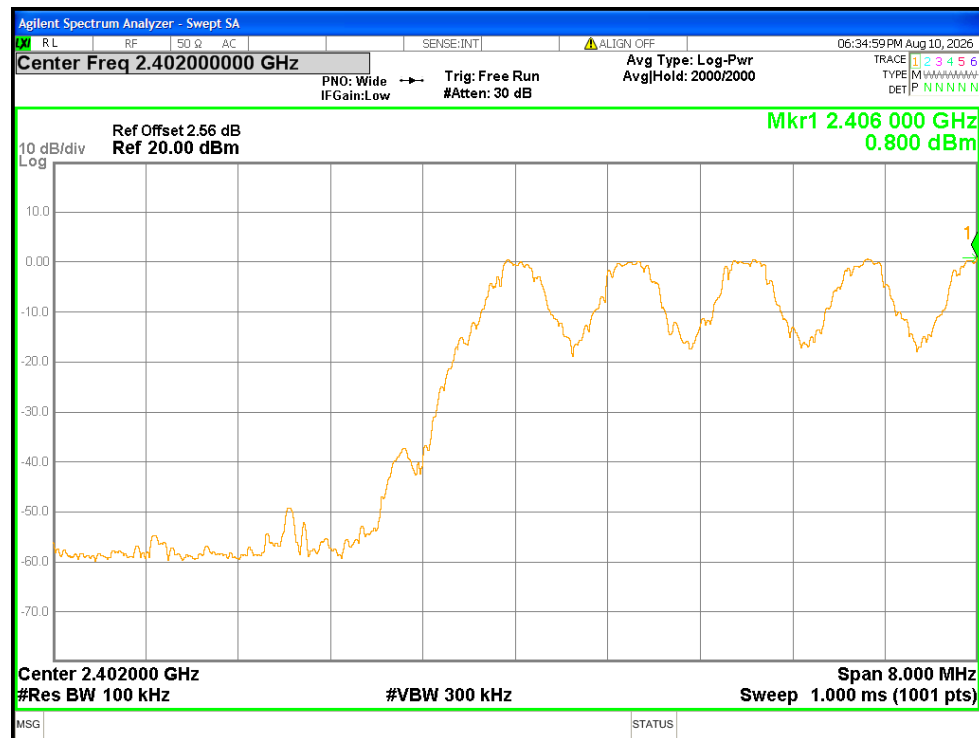


Band Edge(Hopping)

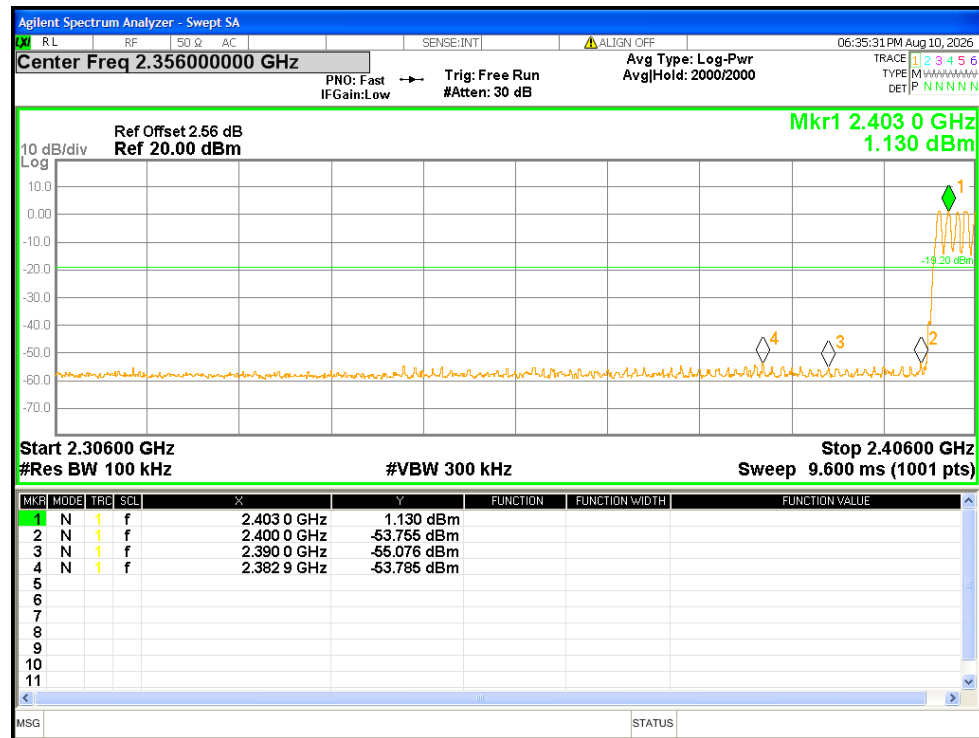
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	Hopping	-54.58	<=-20	Pass
1-DH5	2480	Hopping	-58.68	<=-20	Pass
2-DH5	2402	Hopping	-51.3	<=-20	Pass
2-DH5	2480	Hopping	-55.06	<=-20	Pass
3-DH5	2402	Hopping	-51.6	<=-20	Pass
3-DH5	2480	Hopping	-53.92	<=-20	Pass

Test Graphs

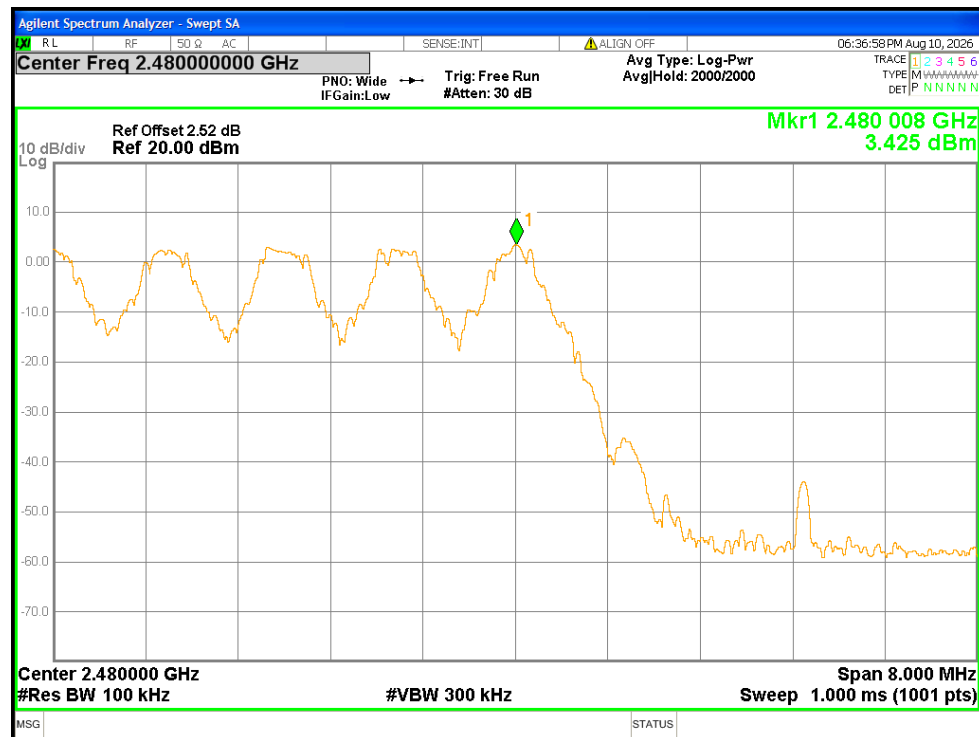
Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Ref



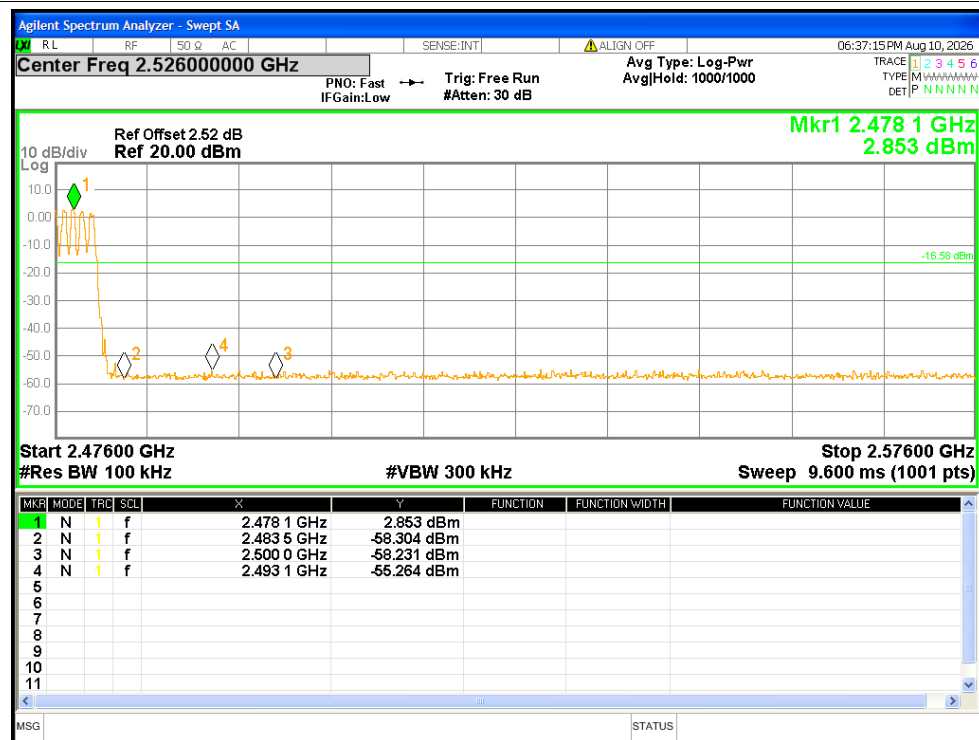
Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Emission



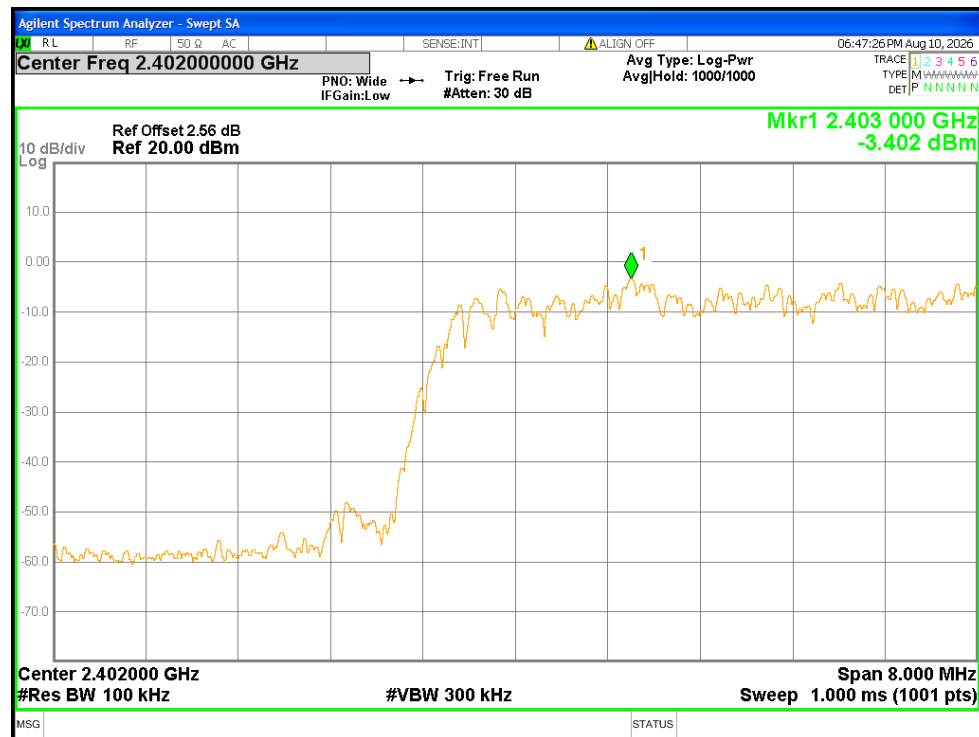
Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Ref



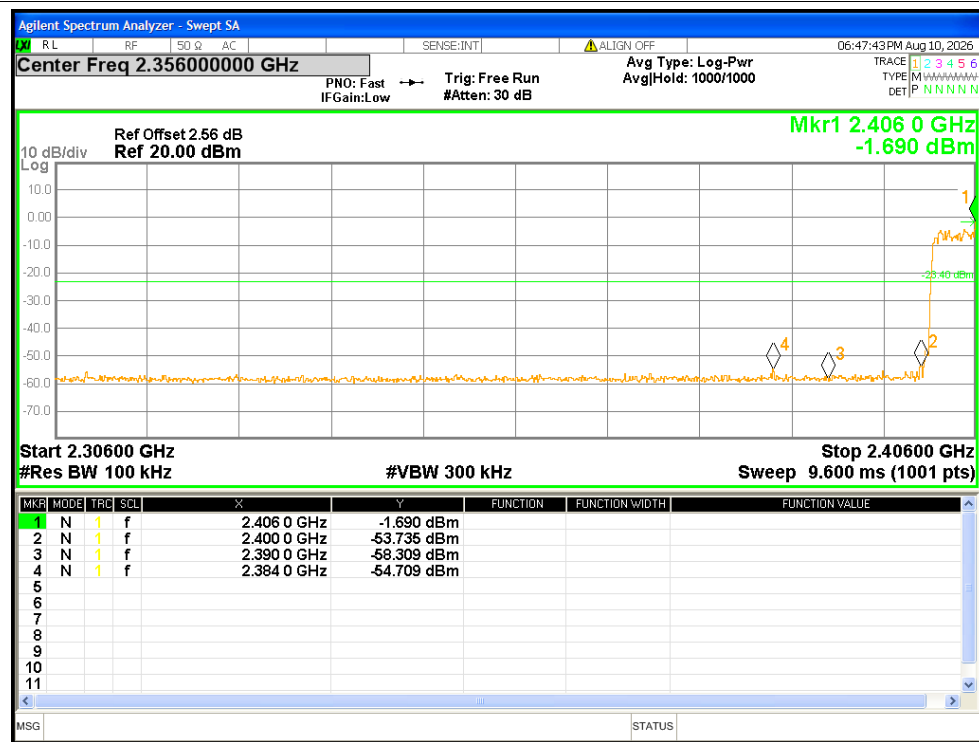
Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Emission



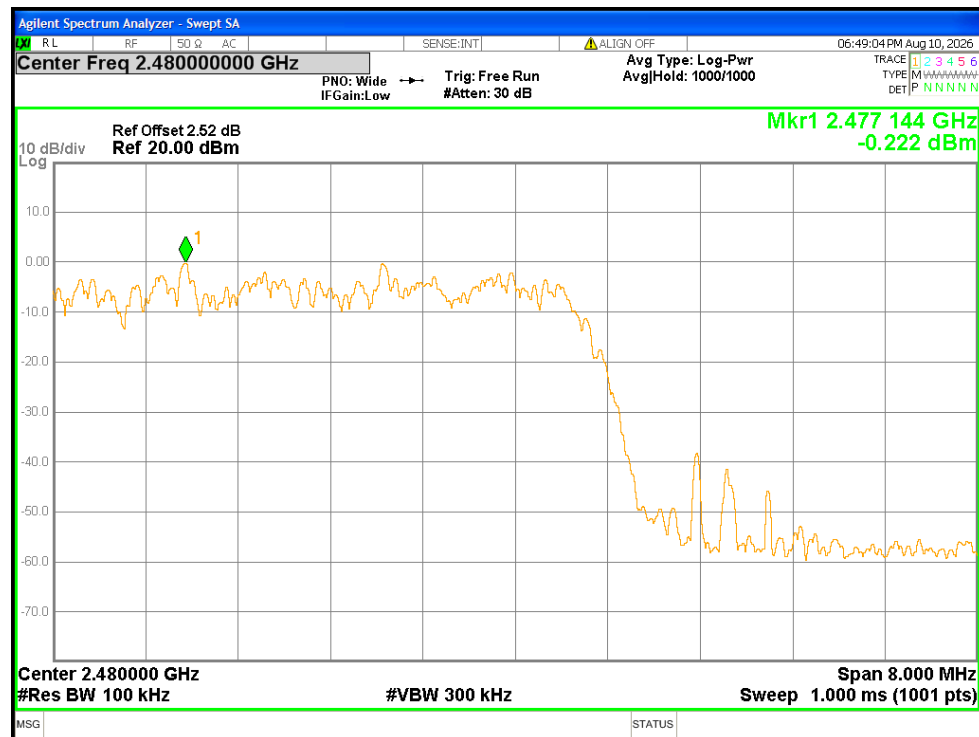
Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Ref



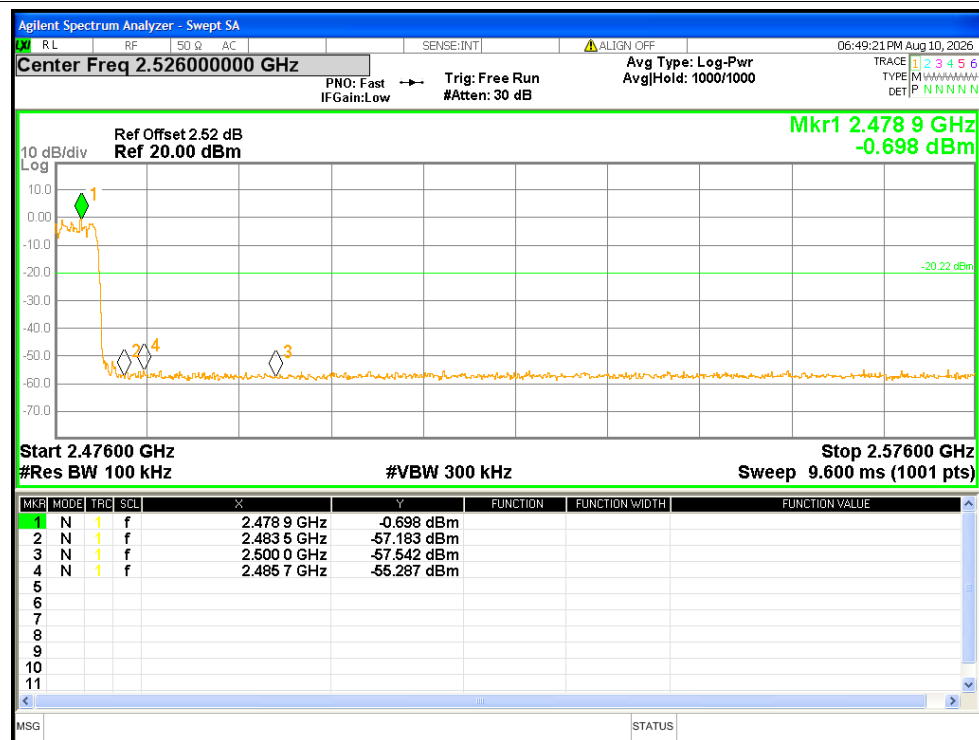
Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Emission



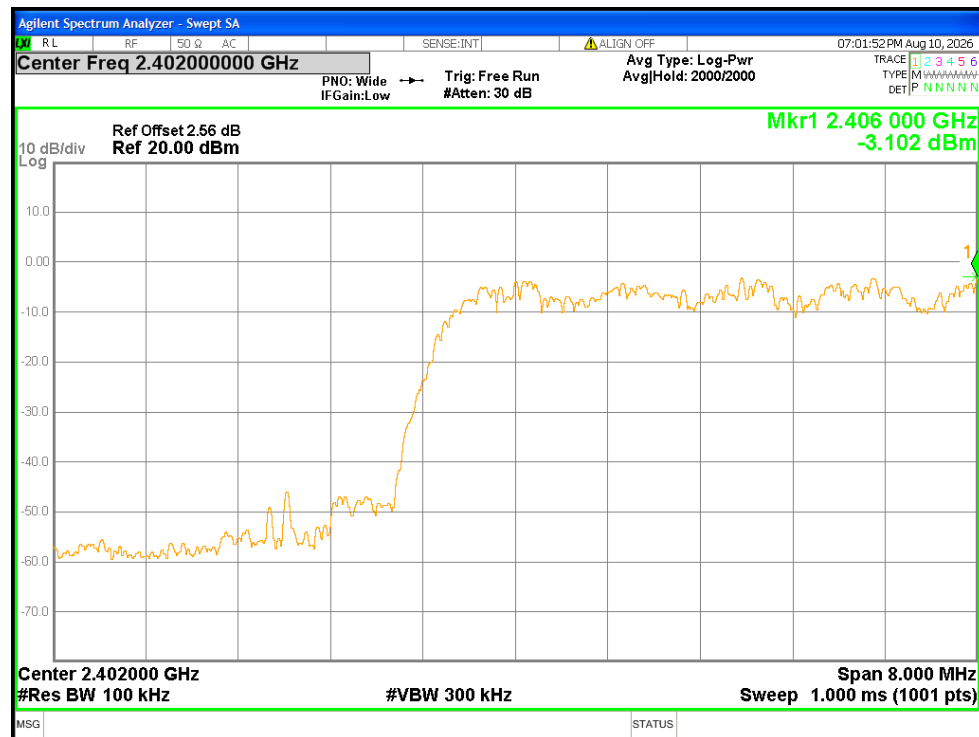
Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Ref



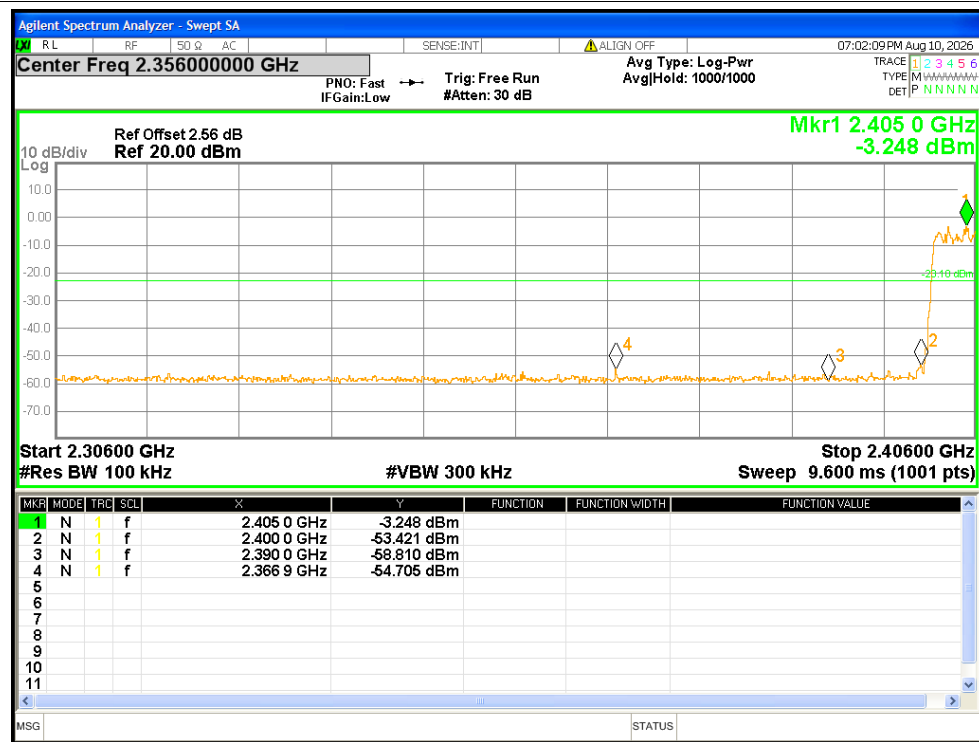
Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Emission



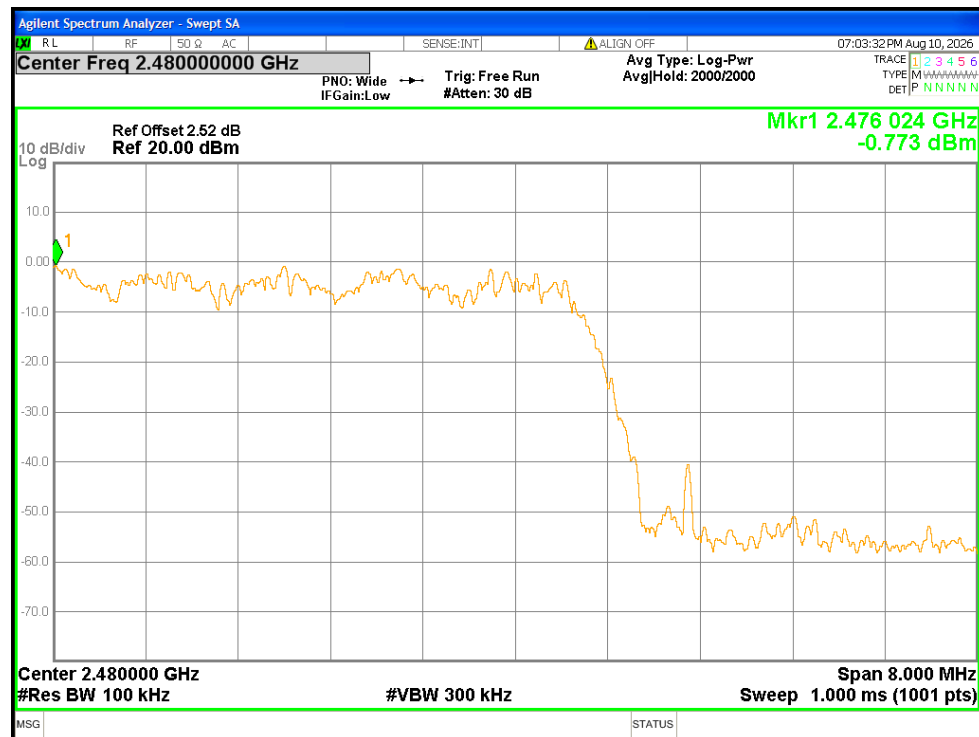
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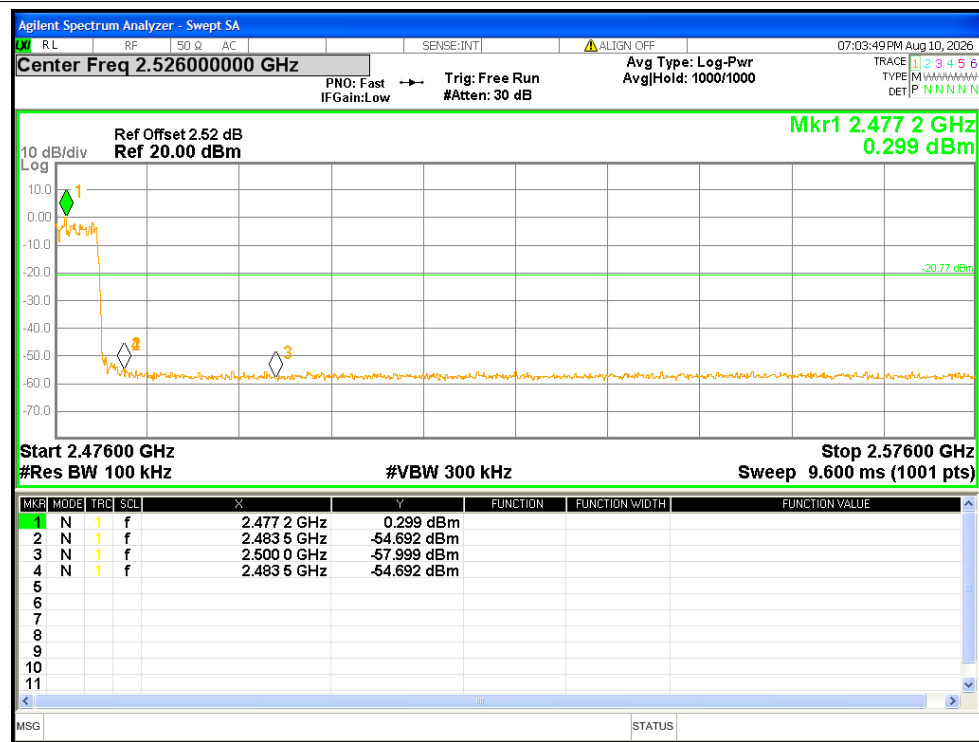
Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Hopping Emission

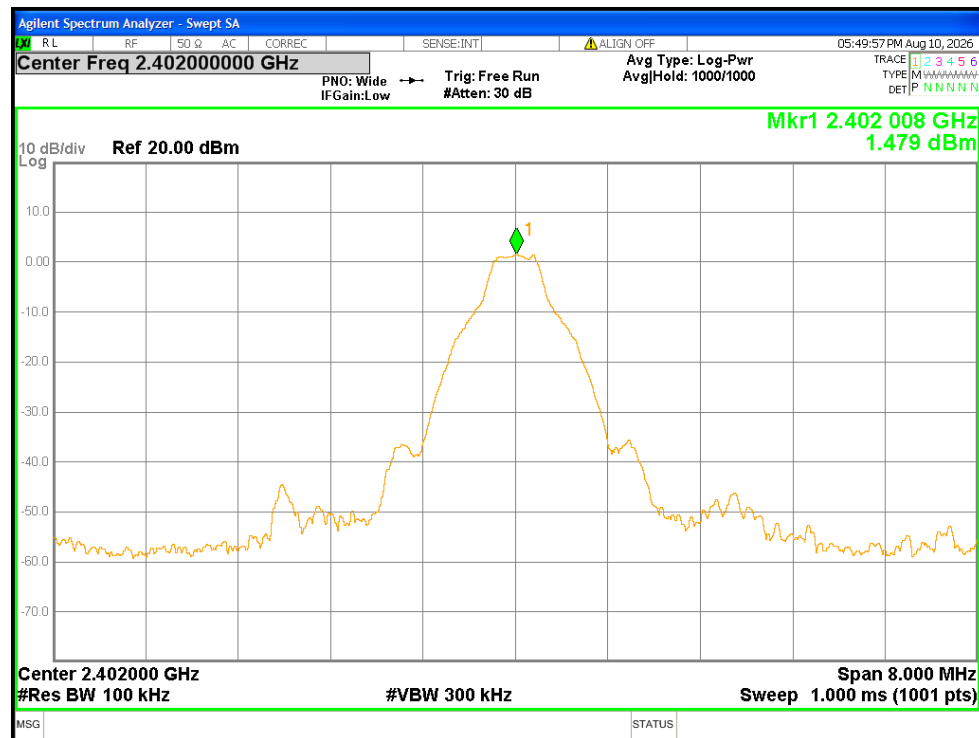


Conducted RF Spurious Emission

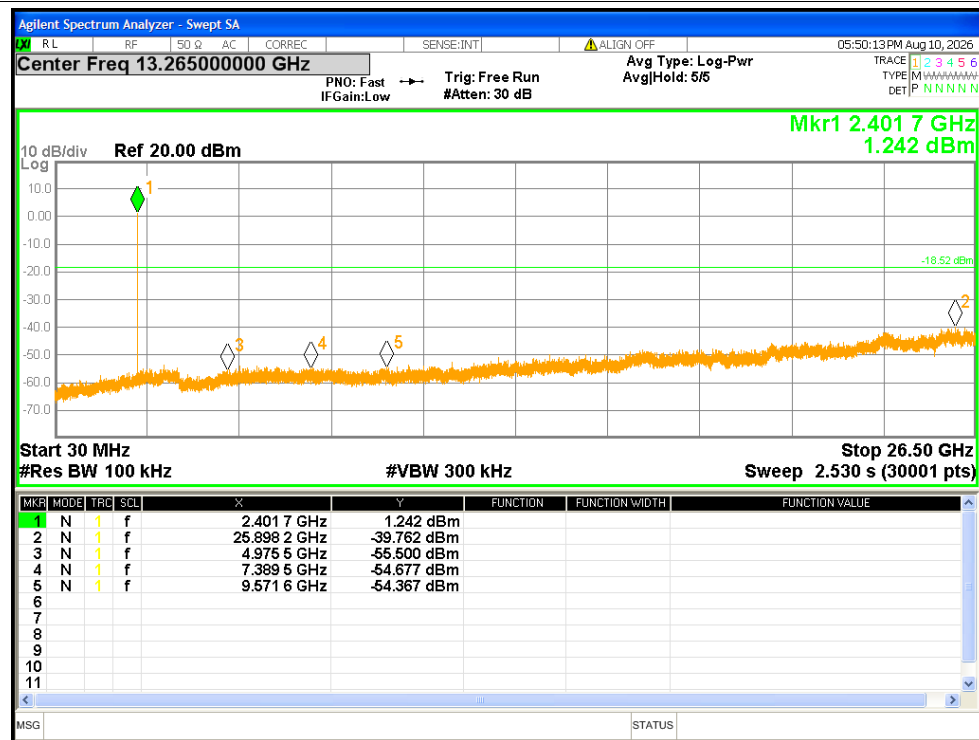
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	-41.24	<=-20	Pass
1-DH5	2441	-41.09	<=-20	Pass
1-DH5	2480	-42.03	<=-20	Pass
2-DH5	2402	-38.14	<=-20	Pass
2-DH5	2441	-38	<=-20	Pass
2-DH5	2480	-38.07	<=-20	Pass
3-DH5	2402	-37.9	<=-20	Pass
3-DH5	2441	-38.02	<=-20	Pass
3-DH5	2480	-37.74	<=-20	Pass

Test Graphs

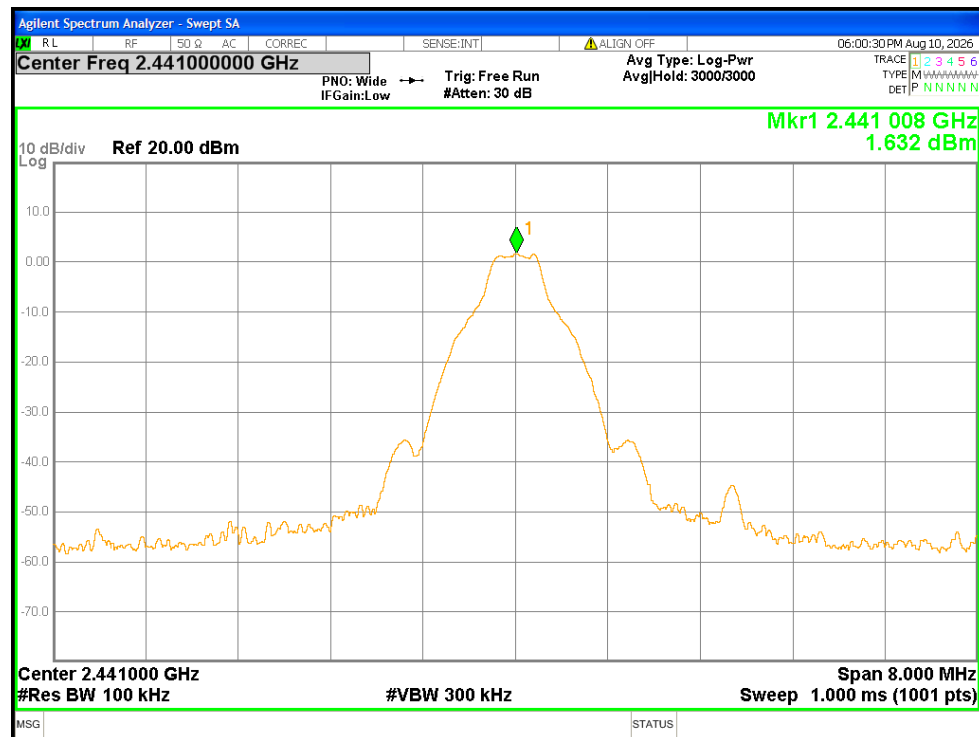
Tx. Spurious NVNT 1-DH5 2402MHz Ref



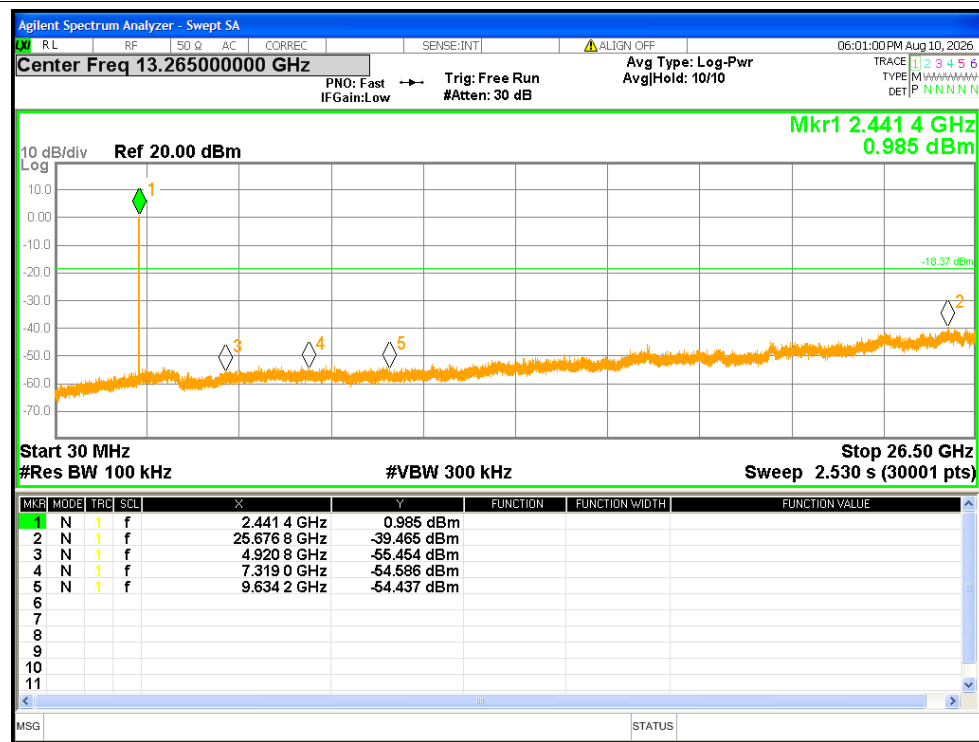
Tx. Spurious NVNT 1-DH5 2402MHz Emission



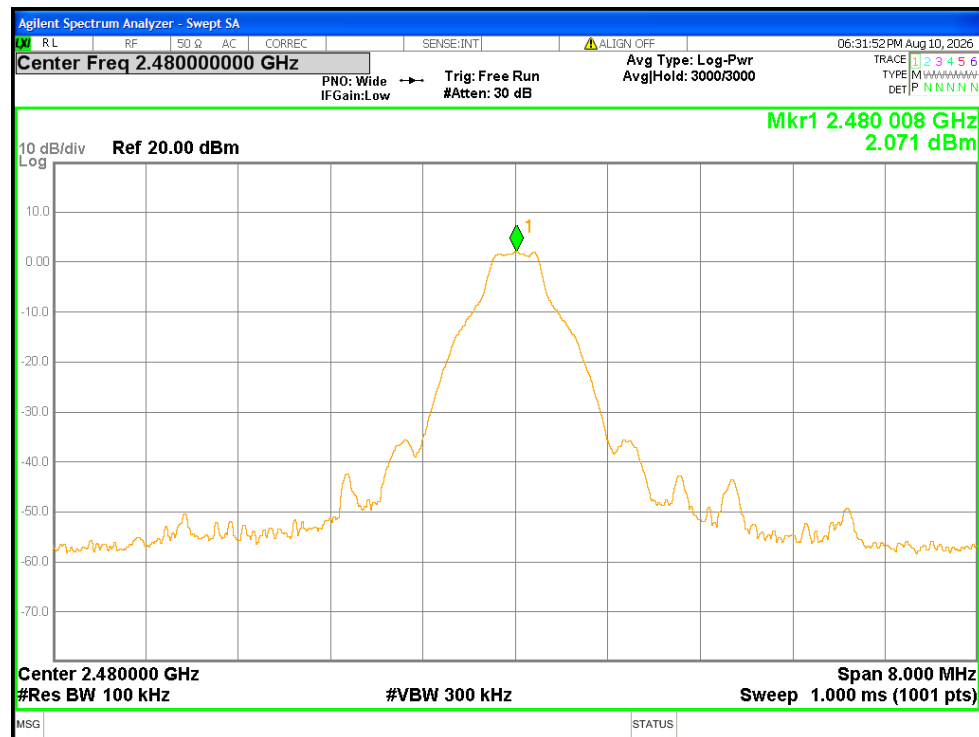
Tx. Spurious NVNT 1-DH5 2441MHz Ref



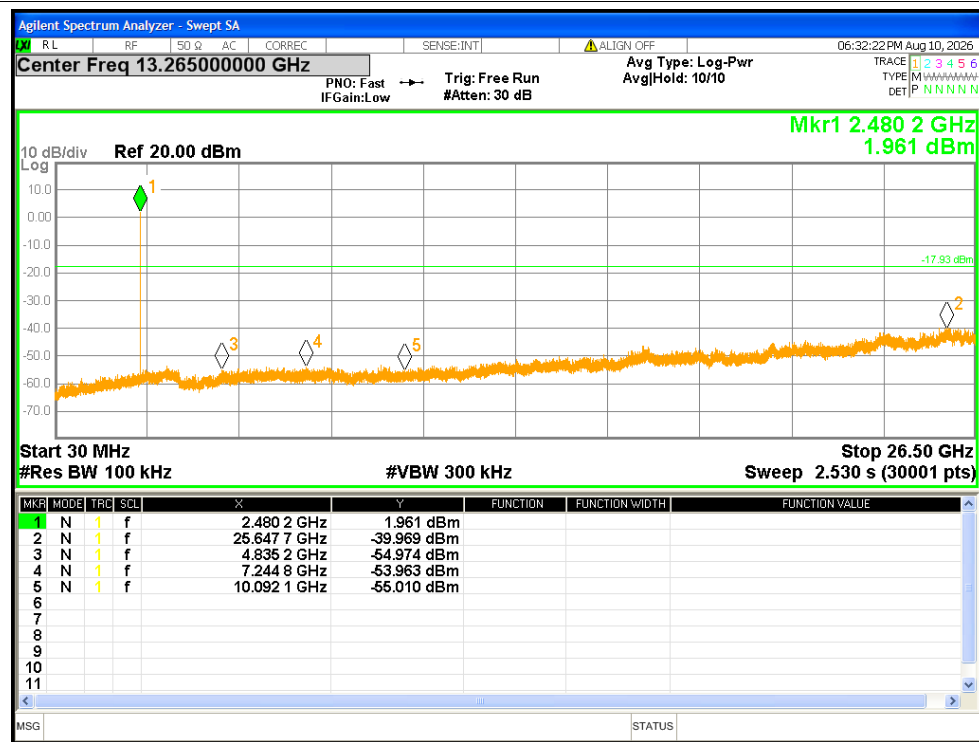
Tx. Spurious NVNT 1-DH5 2441MHz Emission



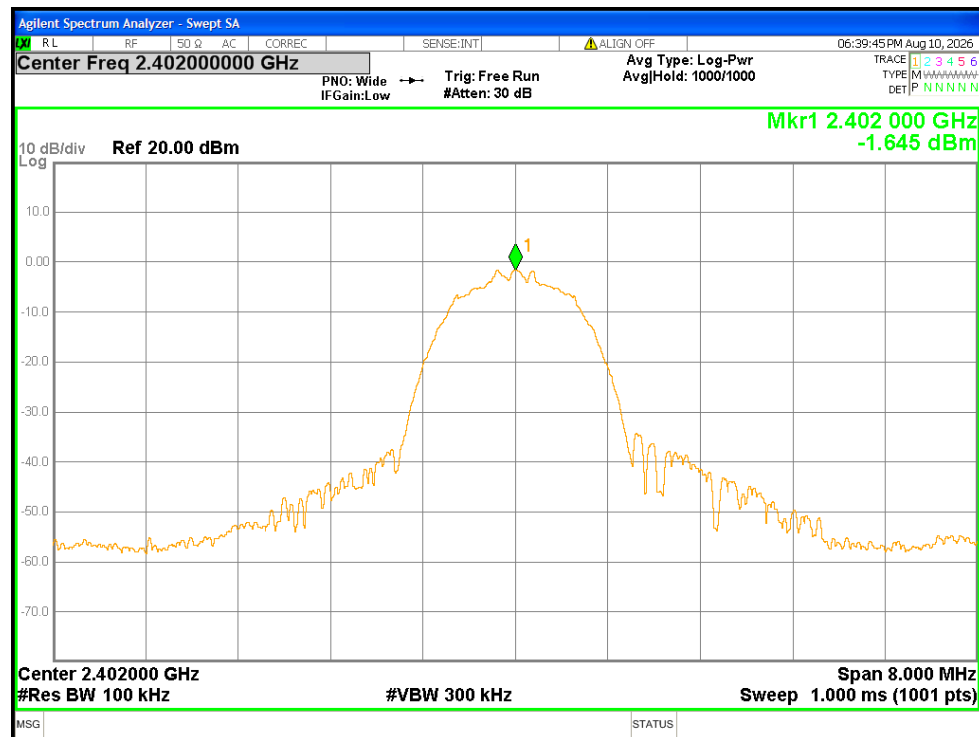
Tx. Spurious NVNT 1-DH5 2480MHz Ref



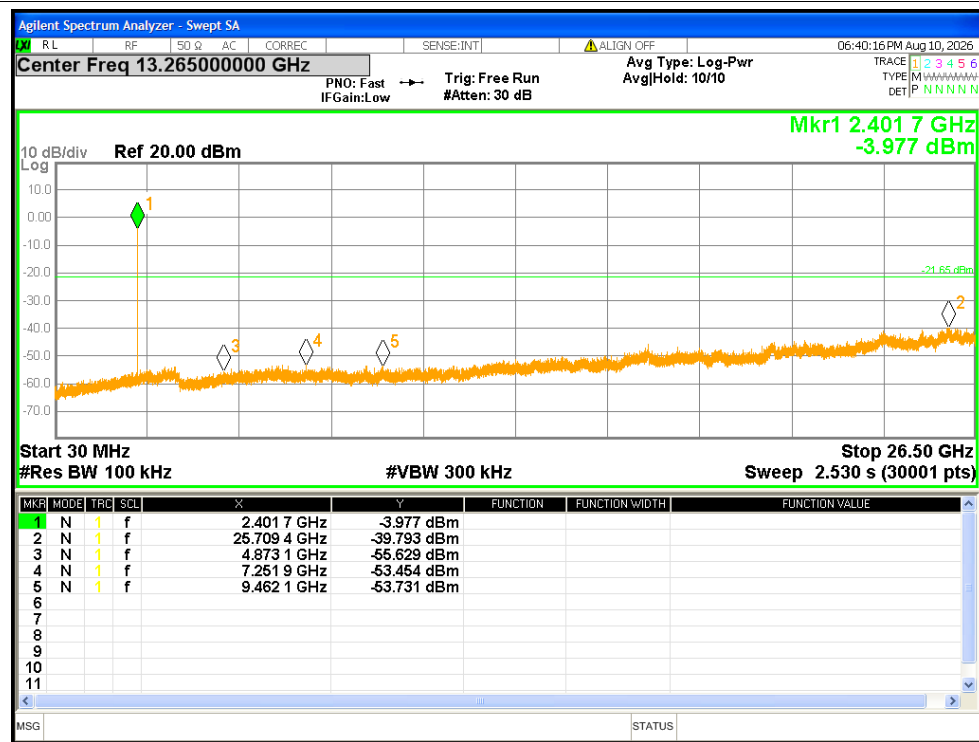
Tx. Spurious NVNT 1-DH5 2480MHz Emission



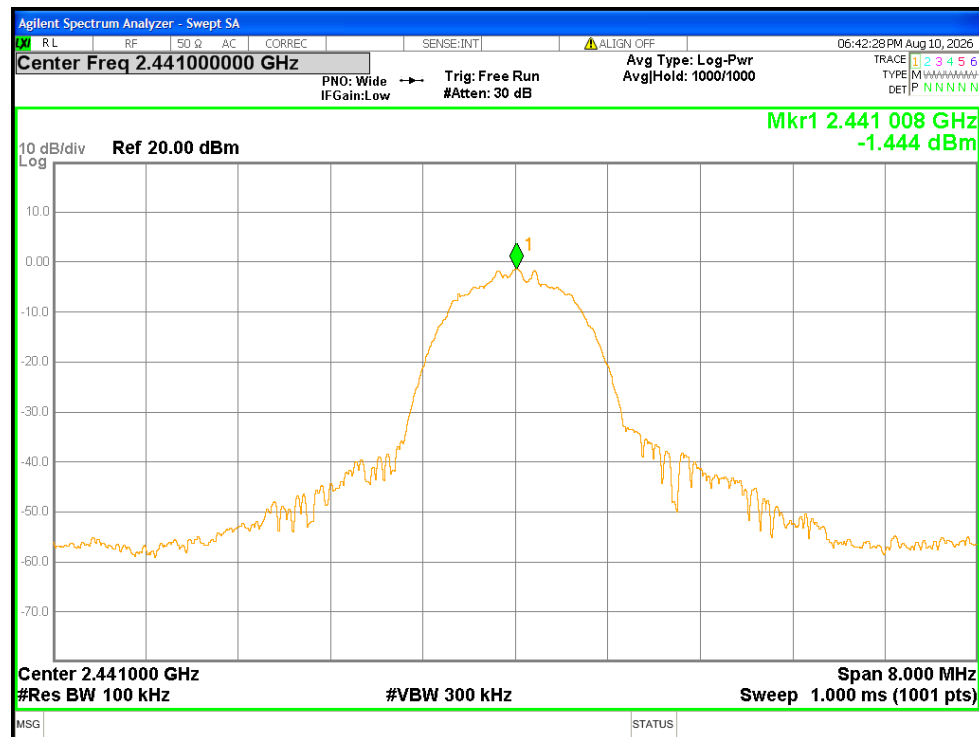
Tx. Spurious NVNT 2-DH5 2402MHz Ref



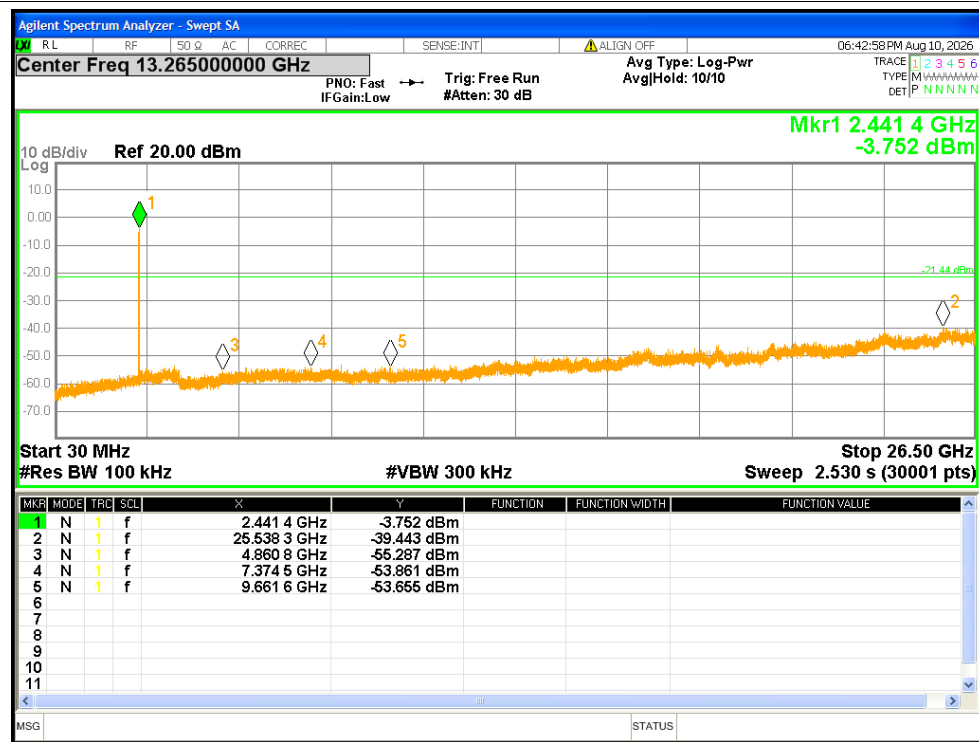
Tx. Spurious NVNT 2-DH5 2402MHz Emission



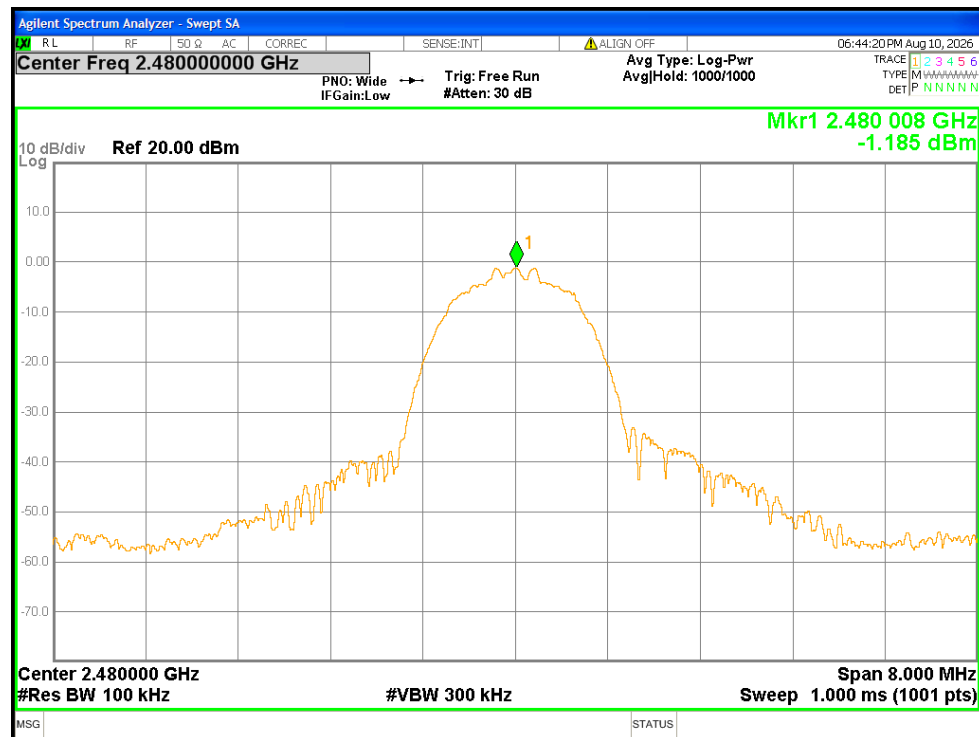
Tx. Spurious NVNT 2-DH5 2441MHz Ref



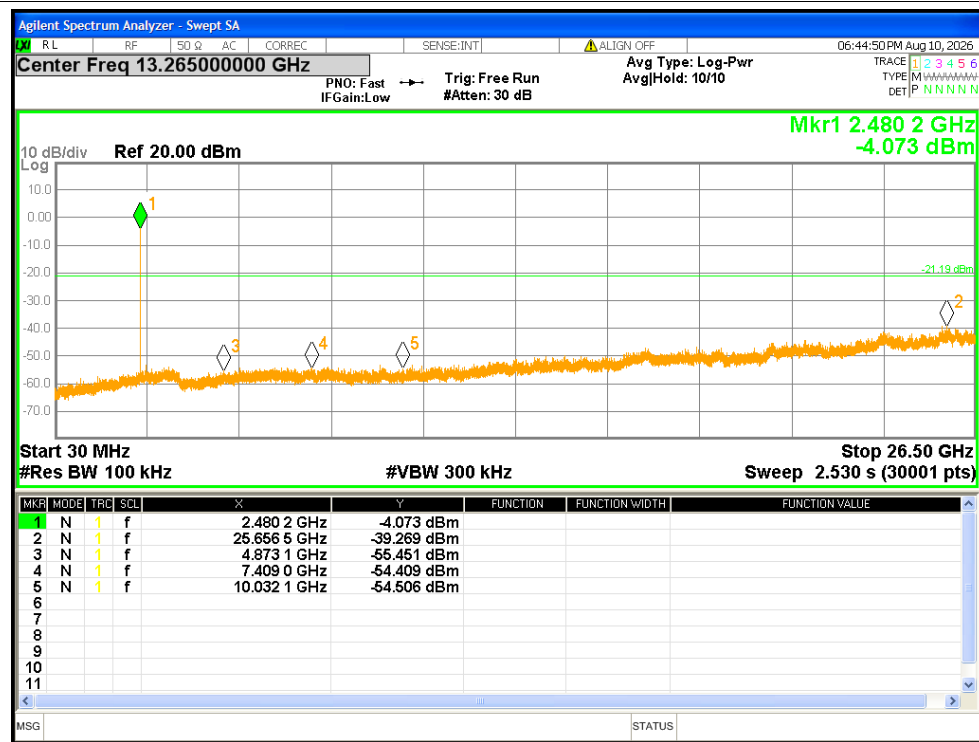
Tx. Spurious NVNT 2-DH5 2441MHz Emission



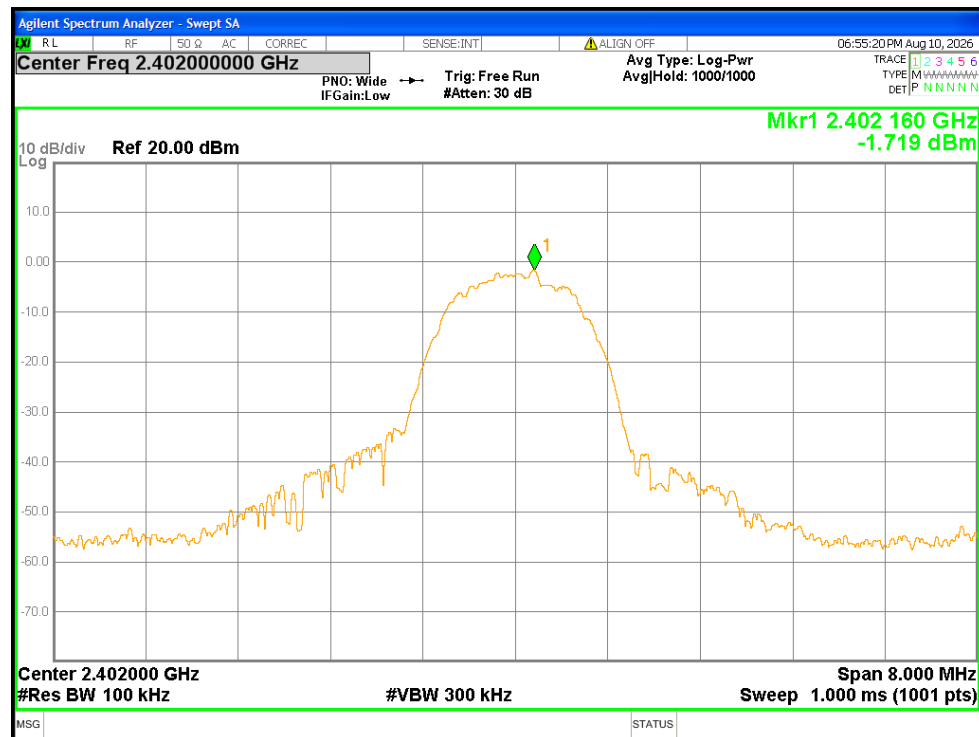
Tx. Spurious NVNT 2-DH5 2480MHz Ref



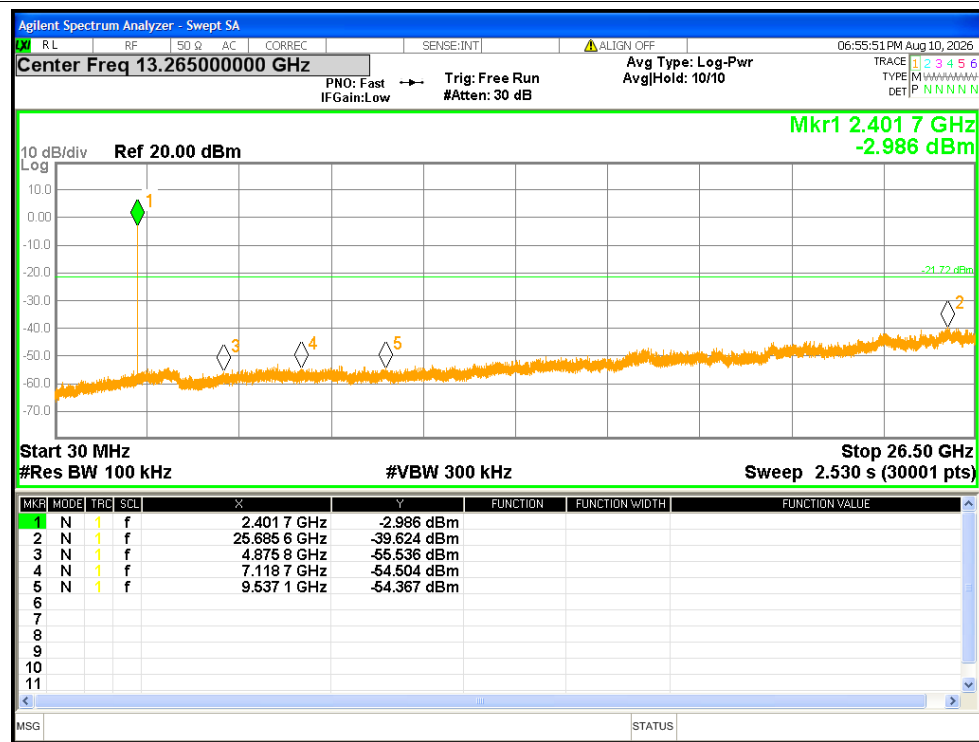
Tx. Spurious NVNT 2-DH5 2480MHz Emission



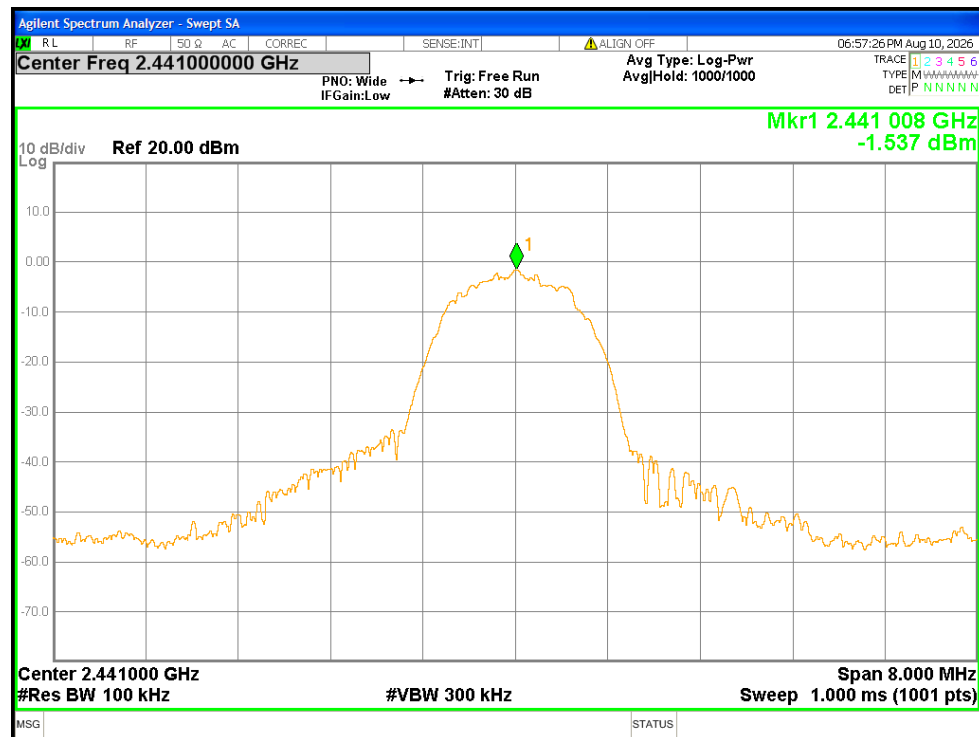
Tx. Spurious NVNT 3-DH5 2402MHz Ref



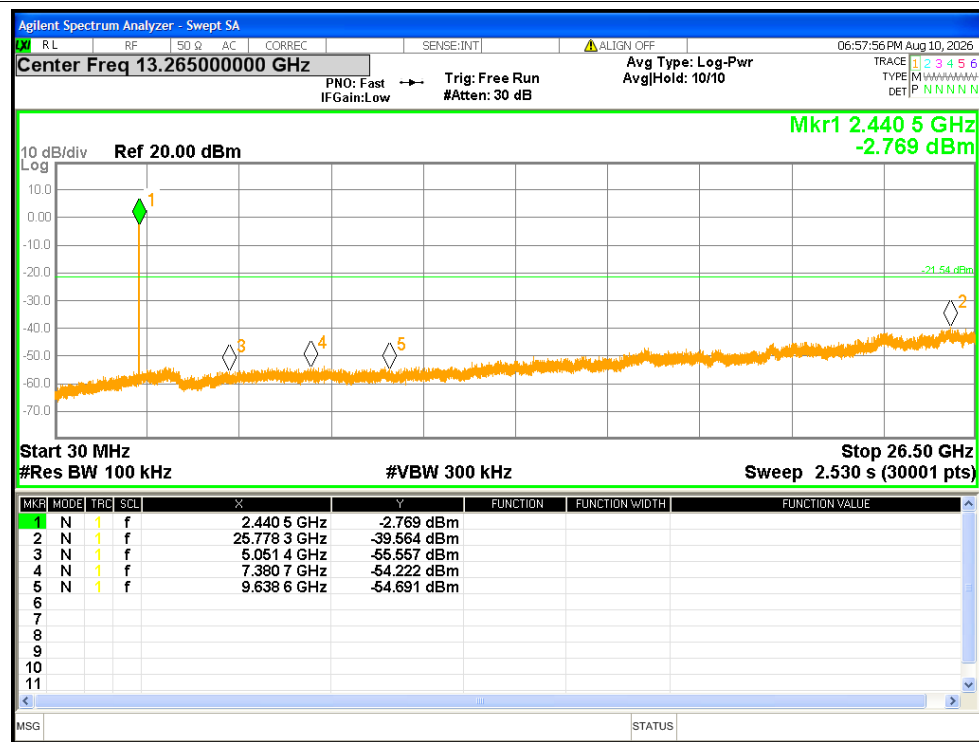
Tx. Spurious NVNT 3-DH5 2402MHz Emission



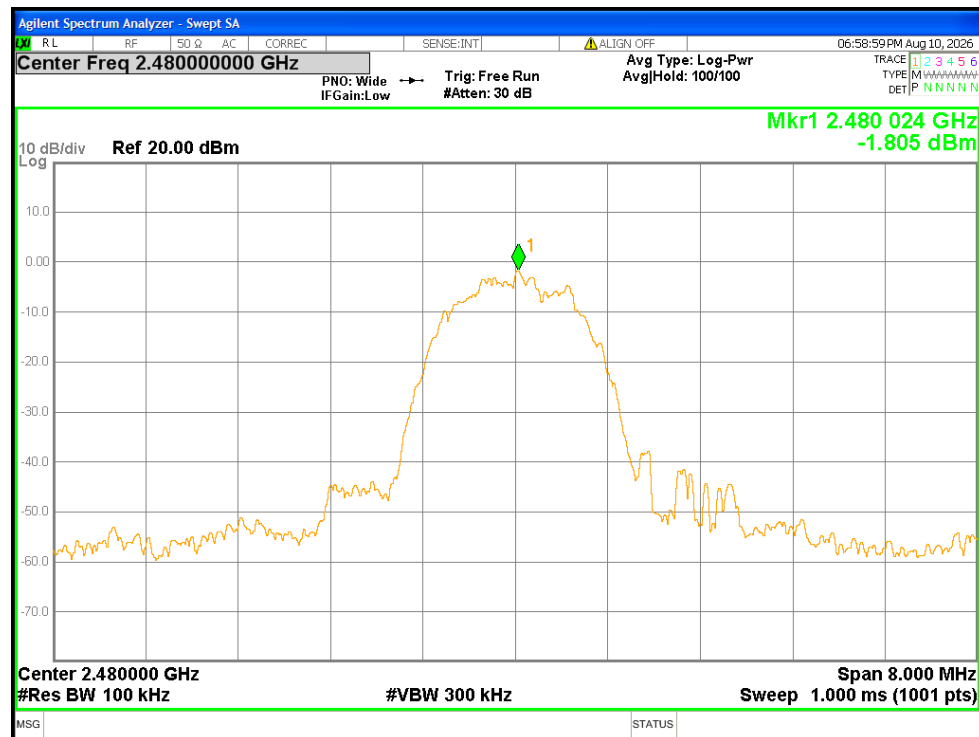
Tx. Spurious NVNT 3-DH5 2441MHz Ref



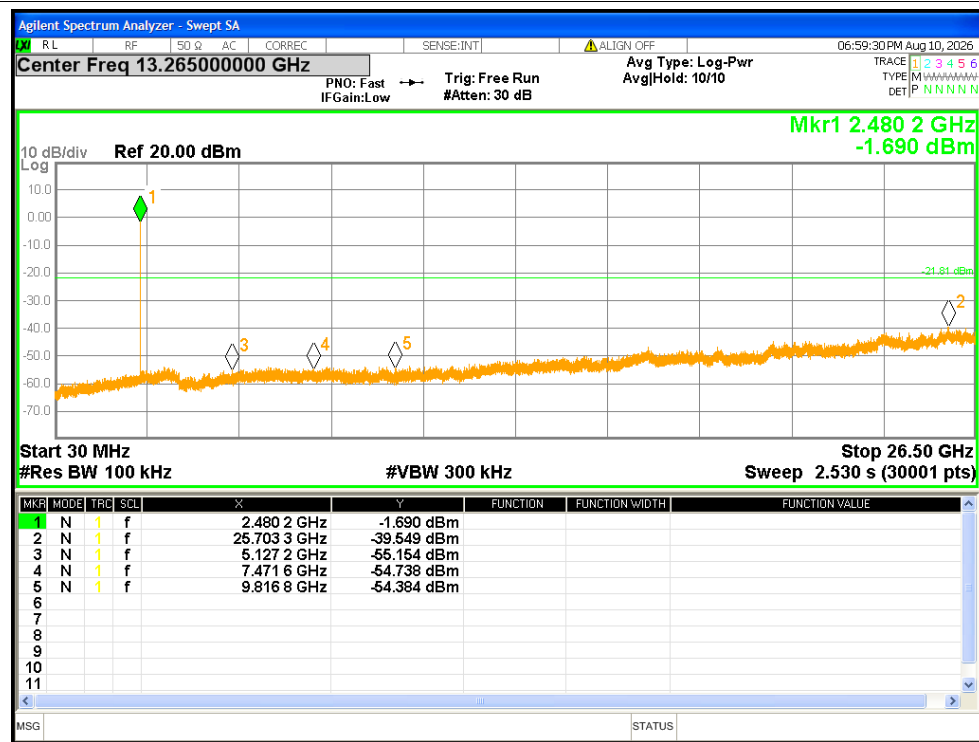
Tx. Spurious NVNT 3-DH5 2441MHz Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ref



Tx. Spurious NVNT 3-DH5 2480MHz Emission

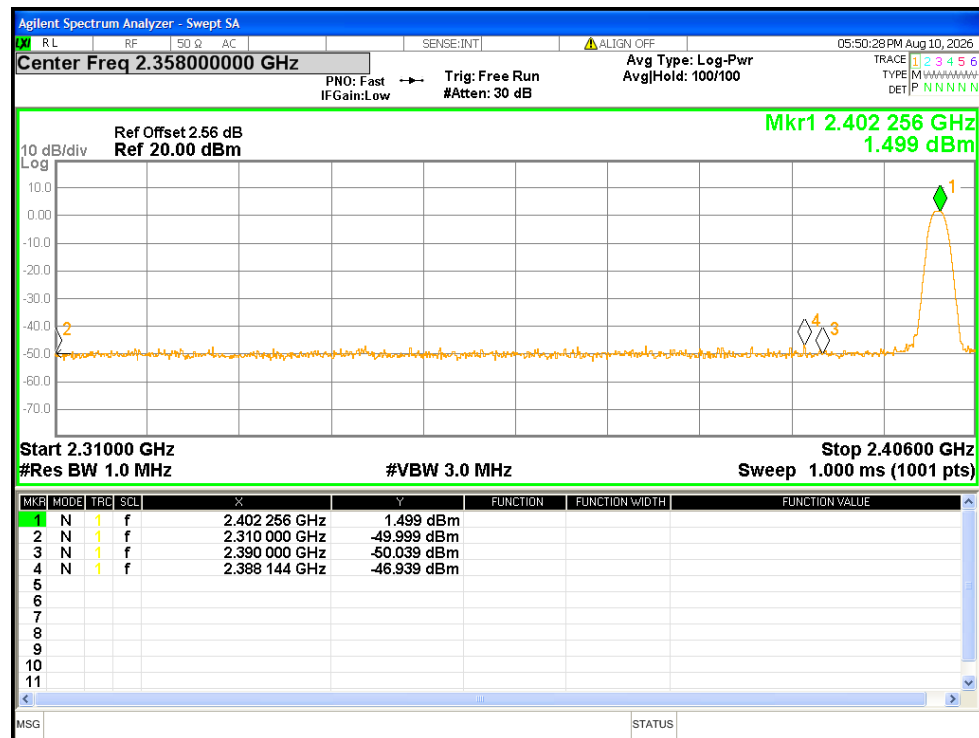


Restrict Band

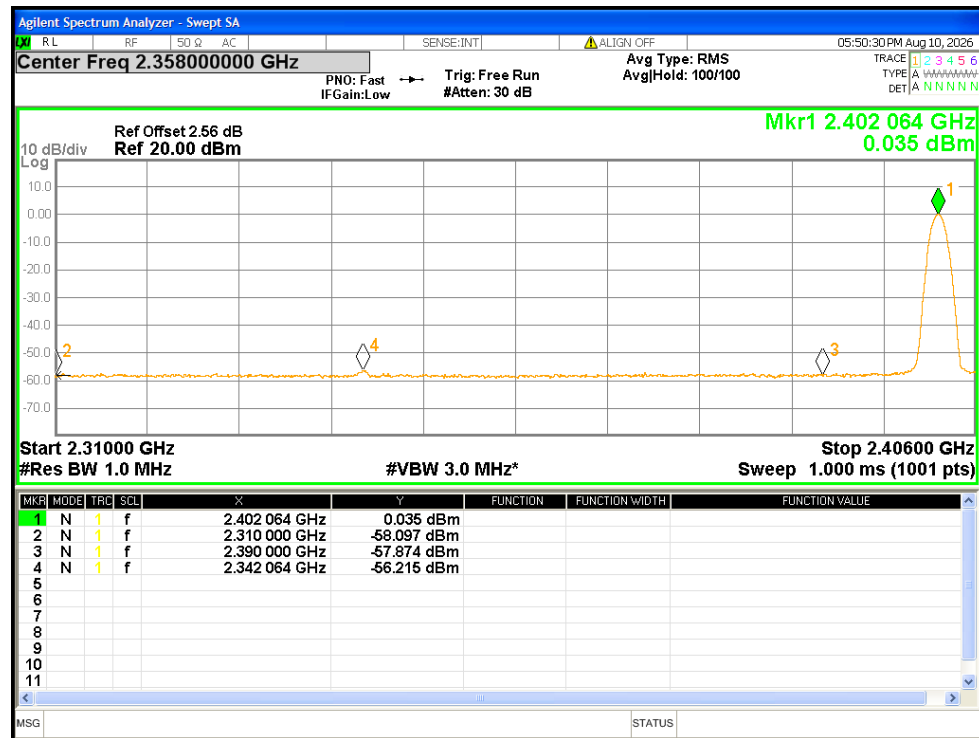
Mode	Frequency (MHz)	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
1-DH5	2402	No-Hopping	2310	-49.99	2	0	47.27	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2310	-58.09	2	1.14	40.31	Average	<=54	Pass
1-DH5	2402	No-Hopping	2388.144	-46.93	2	0	50.33	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2342.064	-56.21	2	1.14	42.19	Average	<=54	Pass
1-DH5	2402	No-Hopping	2390	-49.87	2	0	47.39	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2390	-58.27	2	1.14	40.13	Average	<=54	Pass
1-DH5	2480	No-Hopping	2483.5	-49.21	2	0	48.05	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2483.5	-56.41	2	1.14	41.99	Average	<=54	Pass
1-DH5	2480	No-Hopping	2487.4	-41.67	2	0	55.59	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2483.728	-55.74	2	1.14	42.66	Average	<=54	Pass
1-DH5	2480	No-Hopping	2500	-48.35	2	0	48.91	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2500	-57.22	2	1.14	41.18	Average	<=54	Pass
2-DH5	2402	No-Hopping	2310	-50.39	2	0	46.87	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2310	-58.22	2	1.13	40.17	Average	<=54	Pass
2-DH5	2402	No-Hopping	2387.568	-47.07	2	0	50.19	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2389.584	-57.16	2	1.13	41.23	Average	<=54	Pass
2-DH5	2402	No-Hopping	2390	-48.94	2	0	48.32	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2390	-57.82	2	1.13	40.57	Average	<=54	Pass
2-DH5	2480	No-Hopping	2483.5	-47.69	2	0	49.57	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2483.5	-54.88	2	1.13	43.51	Average	<=54	Pass
2-DH5	2480	No-Hopping	2487.808	-42.76	2	0	54.5	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2483.872	-54.86	2	1.13	43.53	Average	<=54	Pass
2-DH5	2480	No-Hopping	2500	-50.14	2	0	47.12	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2500	-57.45	2	1.13	40.94	Average	<=54	Pass
3-DH5	2402	No-Hopping	2310	-49.94	2	0	47.32	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2310	-58.51	2	1.13	39.88	Average	<=54	Pass
3-DH5	2402	No-Hopping	2388.24	-46.67	2	0	50.59	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2385.84	-56.91	2	1.13	41.48	Average	<=54	Pass
3-DH5	2402	No-Hopping	2390	-50.91	2	0	46.35	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2390	-57.74	2	1.13	40.65	Average	<=54	Pass
3-DH5	2480	No-Hopping	2483.5	-46.7	2	0	50.56	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2483.5	-54.63	2	1.13	43.76	Average	<=54	Pass
3-DH5	2480	No-Hopping	2487.304	-40.6	2	0	56.66	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2483.752	-54.32	2	1.13	44.07	Average	<=54	Pass
3-DH5	2480	No-Hopping	2500	-47.6	2	0	49.66	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2500	-57.75	2	1.13	40.64	Average	<=54	Pass

Test Graphs

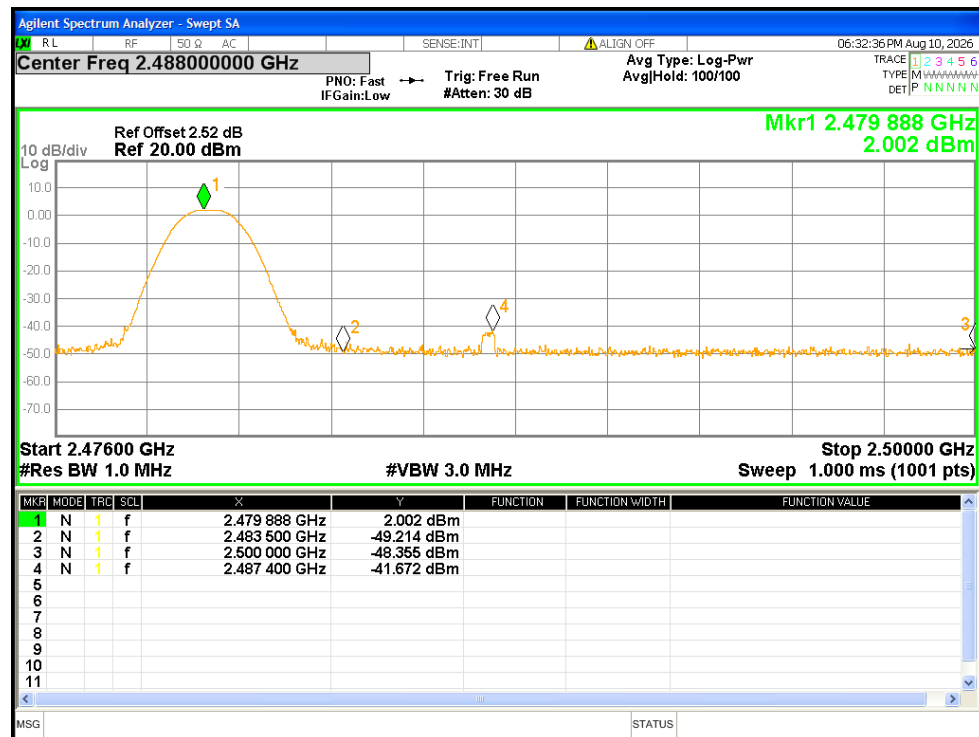
Restrict Band NVNT 1-DH5 2402MHz No-Hopping Peak



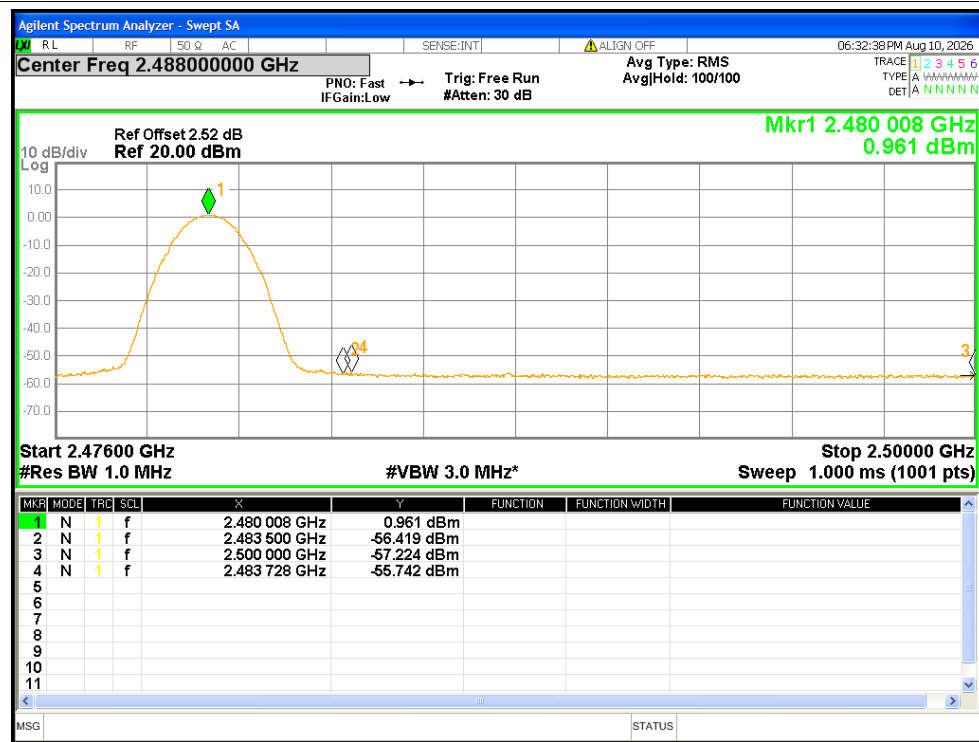
Restrict Band NVNT 1-DH5 2402MHz No-Hopping Average



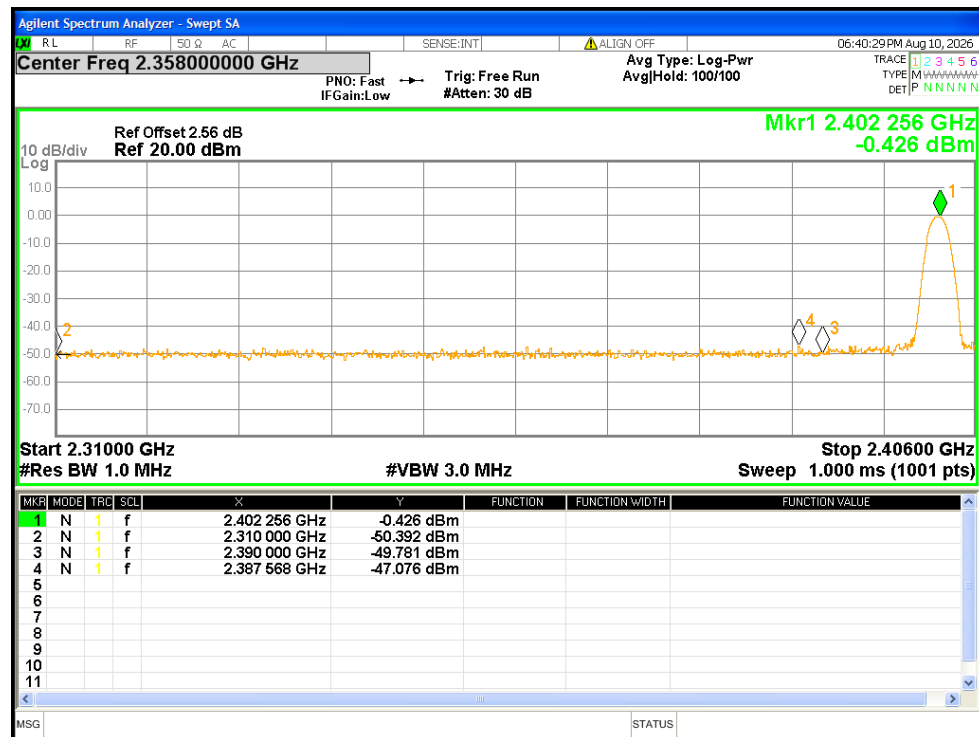
Restrict Band NVNT 1-DH5 2480MHz No-Hopping Peak



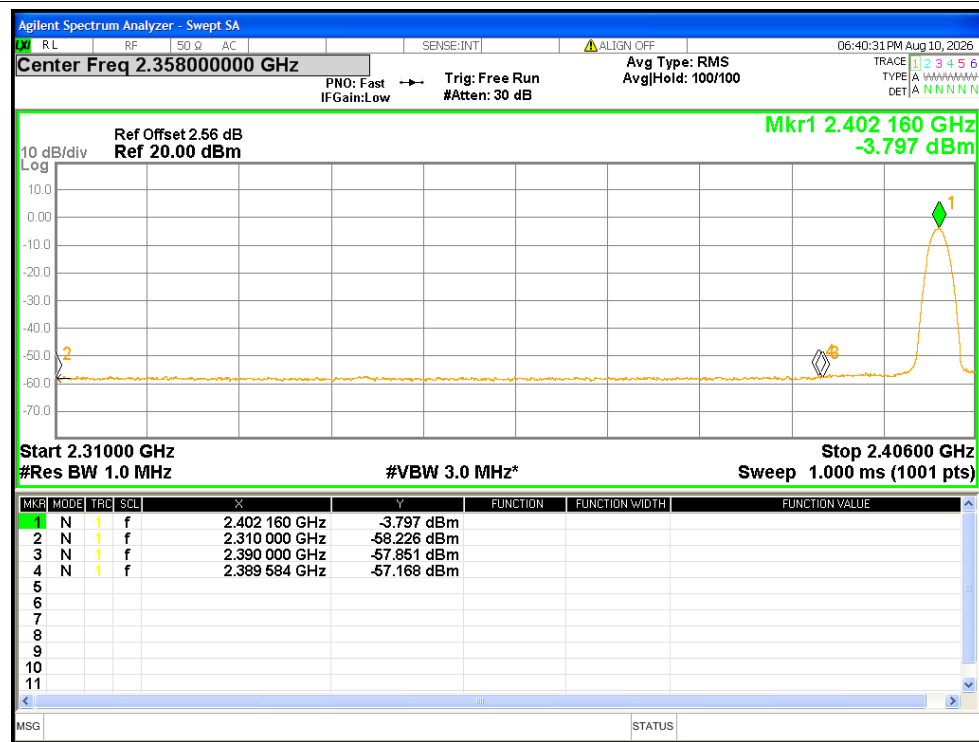
Restrict Band NVNT 1-DH5 2480MHz No-Hopping Average



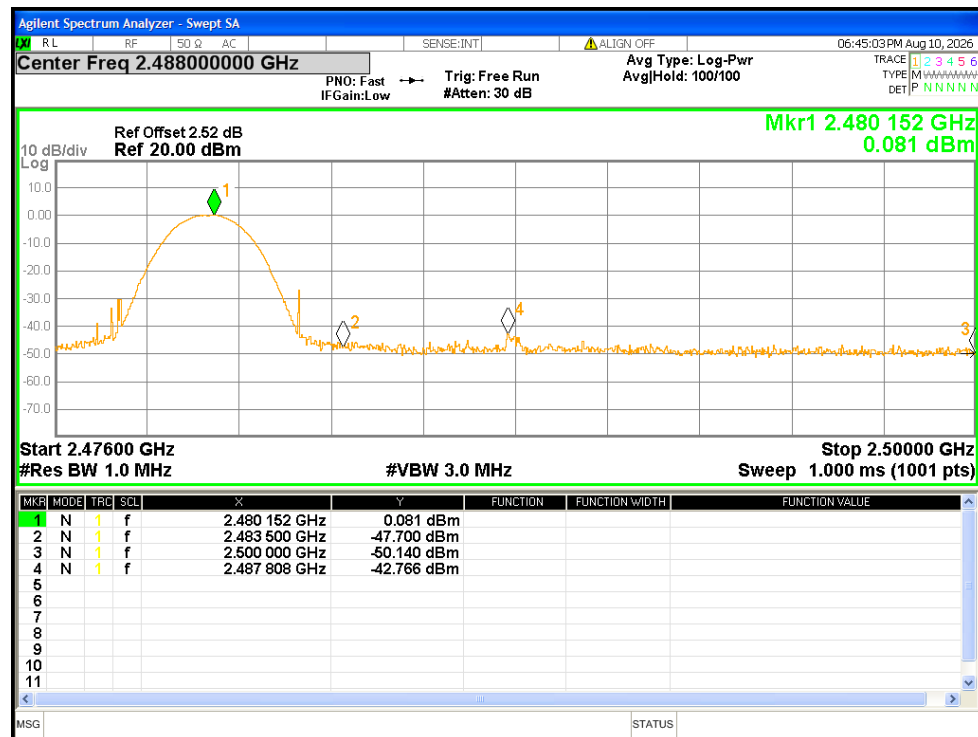
Restrict Band NVNT 2-DH5 2402MHz No-Hopping Peak



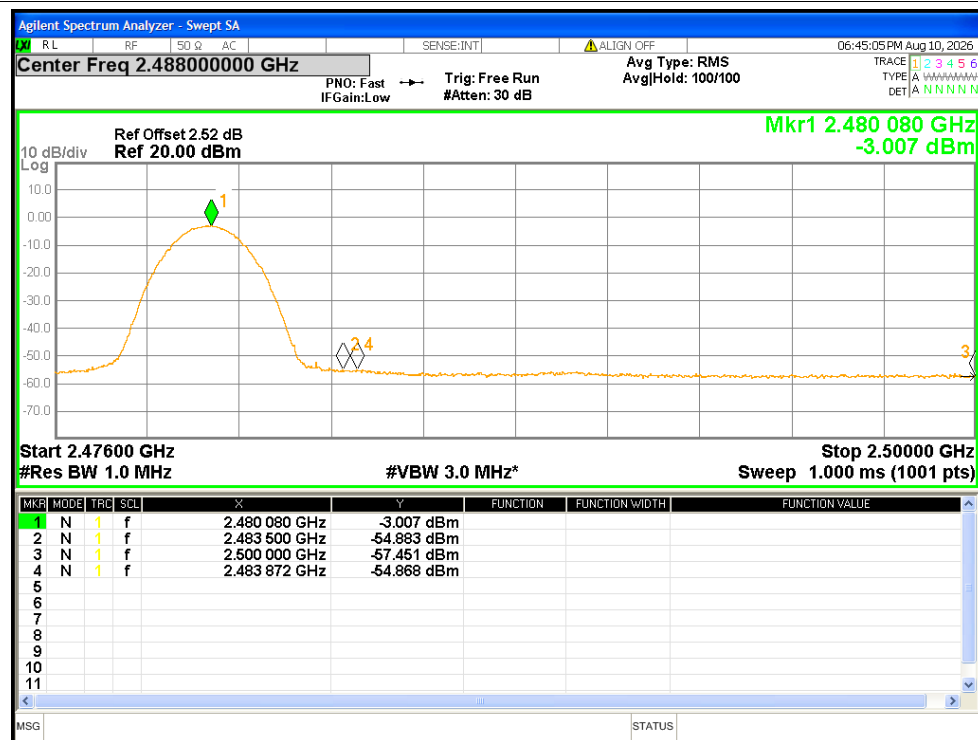
Restrict Band NVNT 2-DH5 2402MHz No-Hopping Average



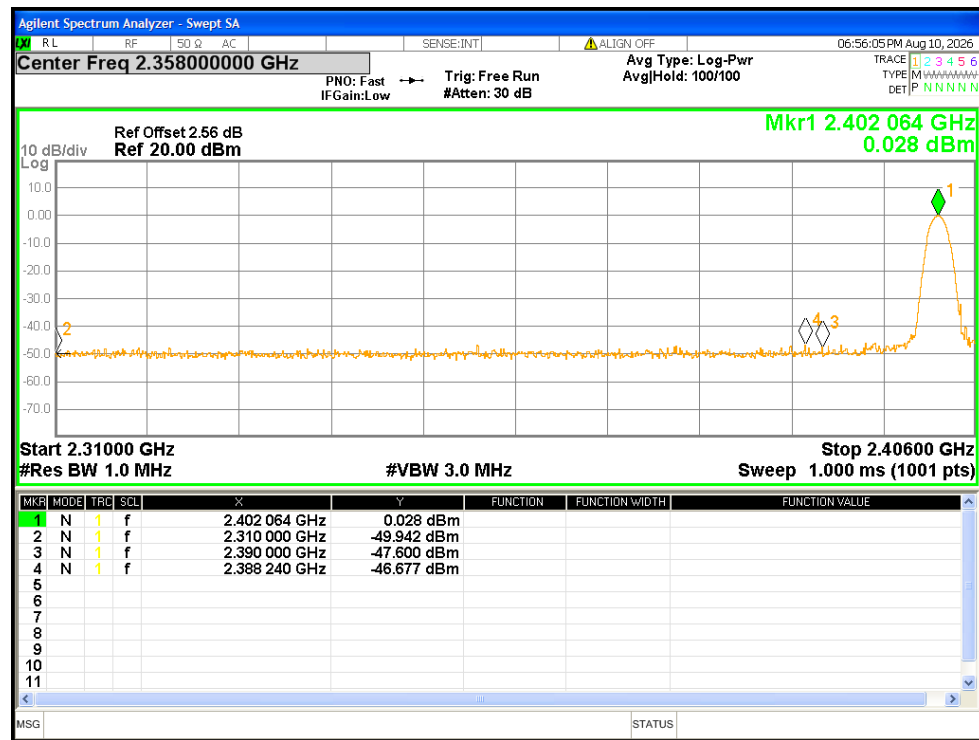
Restrict Band NVNT 2-DH5 2480MHz No-Hopping Peak



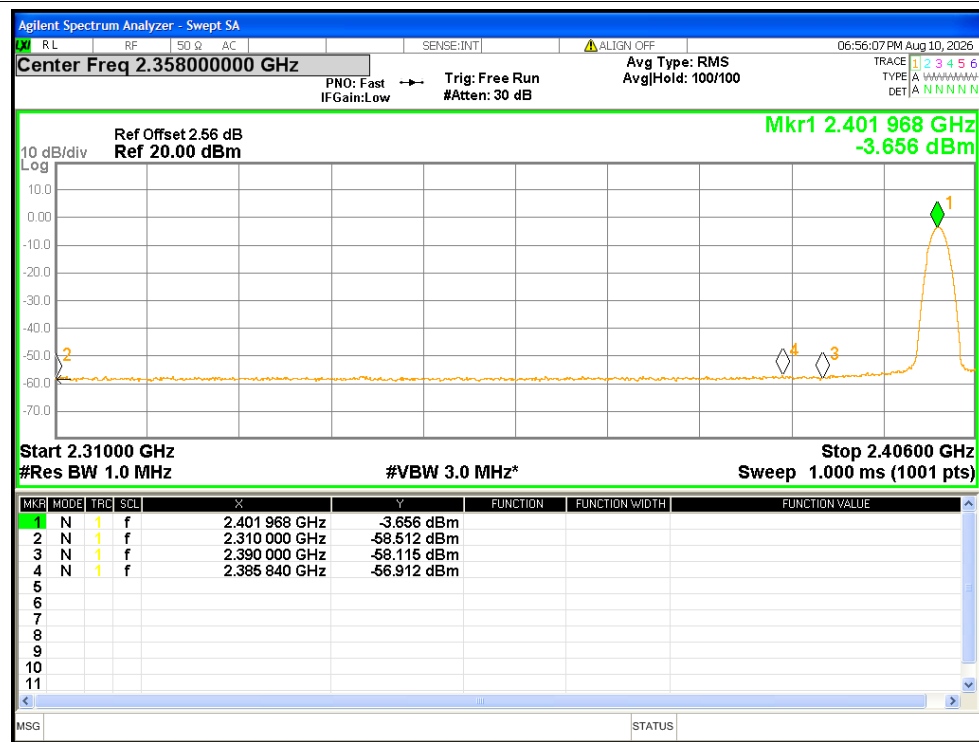
Restrict Band NVNT 2-DH5 2480MHz No-Hopping Average



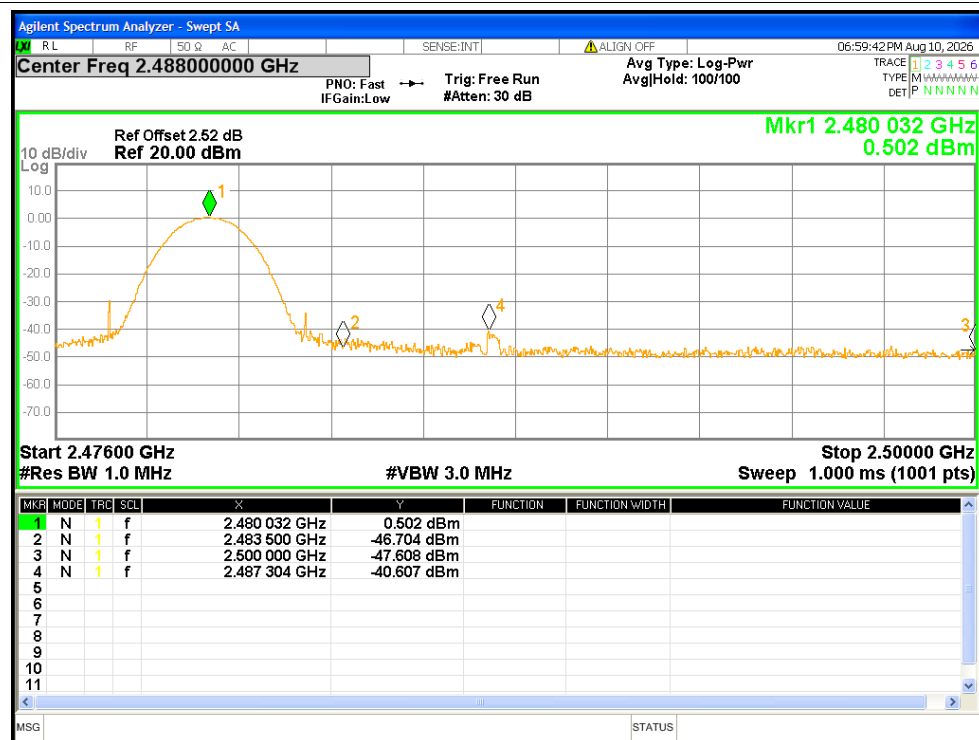
Restrict Band NVNT 3-DH5 2402MHz No-Hopping Peak



Restrict Band NVNT 3-DH5 2402MHz No-Hopping Average



Restrict Band NVNT 3-DH5 2480MHz No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz No-Hopping Average

