

FCC Appendix RF Test Data for BT

FCC ID : 2BG9Y-MODELXXXPXXX

Company : Hyatta Digital Technology Co., Ltd.

EUT : Portable Data Terminal

Model Number : Model 7

Report No. : CTA26052902017

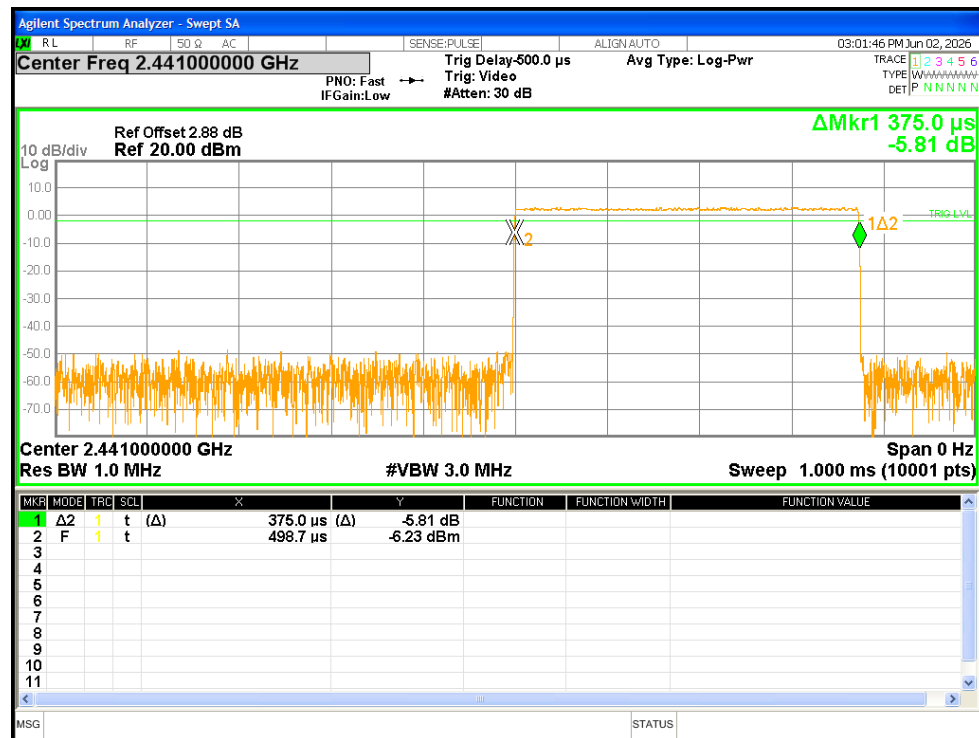
Reviewed By : Eric Wang

Dwell Time

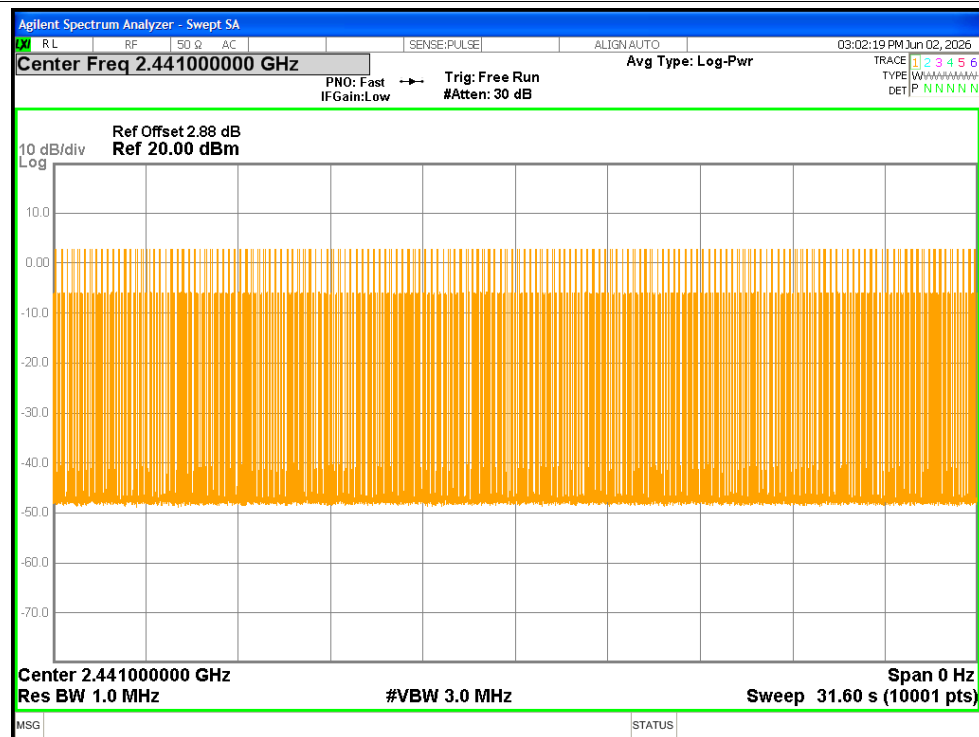
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.375	118.5	316	31600	<=400	Pass
NVNT	1-DH3	2441	1.629	254.124	156	31600	<=400	Pass
NVNT	1-DH5	2441	2.878	310.824	108	31600	<=400	Pass
NVNT	2-DH1	2441	0.383	120.645	315	31600	<=400	Pass
NVNT	2-DH3	2441	1.635	261.6	160	31600	<=400	Pass
NVNT	2-DH5	2441	2.883	320.013	111	31600	<=400	Pass
NVNT	3-DH1	2441	0.383	121.411	317	31600	<=400	Pass
NVNT	3-DH3	2441	1.634	256.538	157	31600	<=400	Pass
NVNT	3-DH5	2441	2.885	300.04	104	31600	<=400	Pass

Test Graphs

Dwell NVNT 1-DH1 2441MHz One Burst



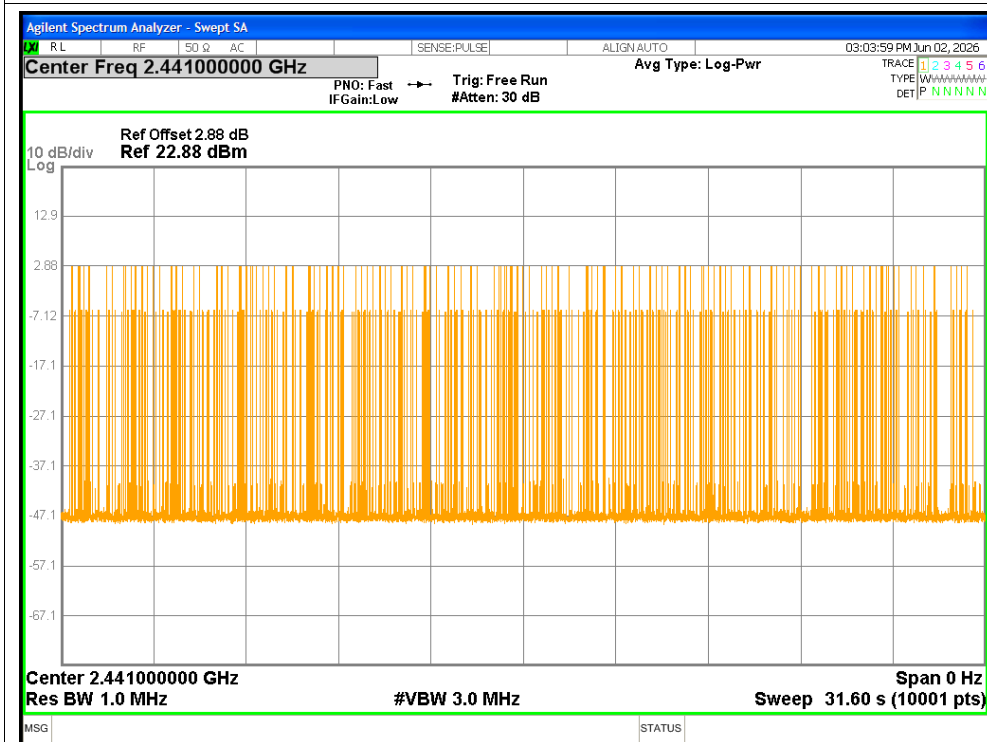
Dwell NVNT 1-DH1 2441MHz Accumulated



Dwell NVNT 1-DH3 2441MHz One Burst



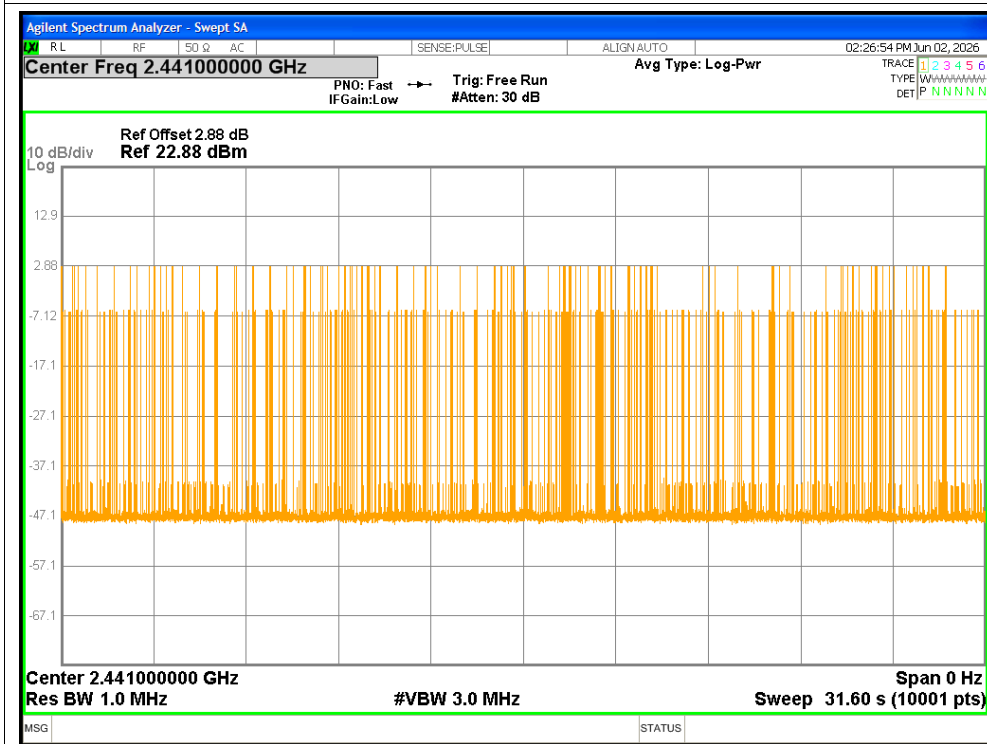
Dwell NVNT 1-DH3 2441MHz Accumulated



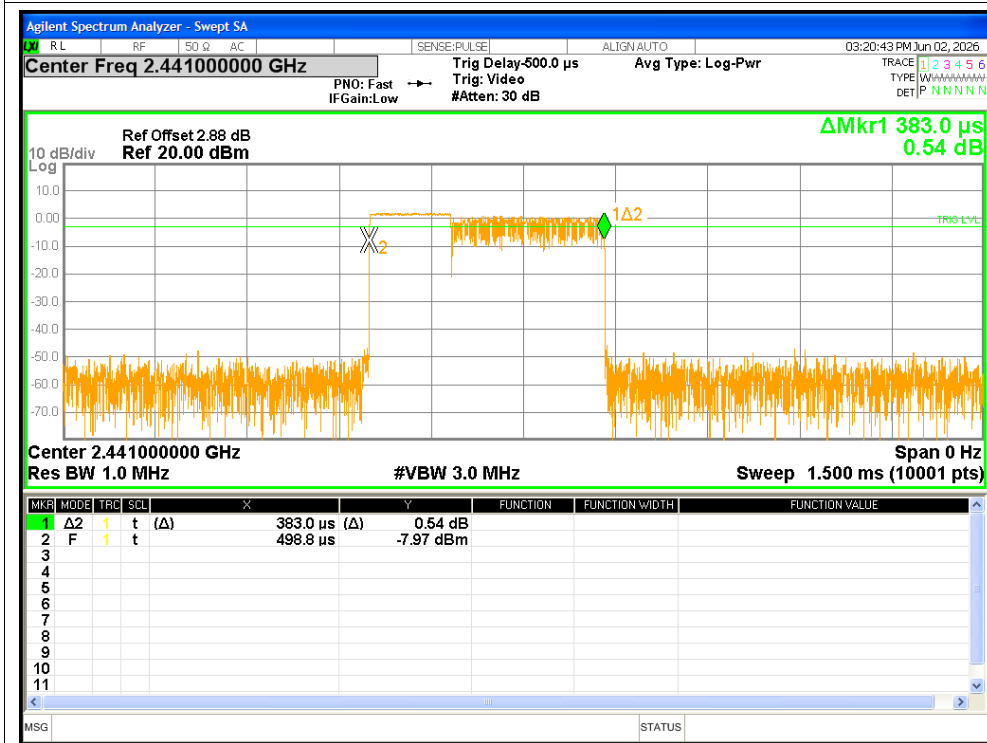
Dwell NVNT 1-DH5 2441MHz One Burst



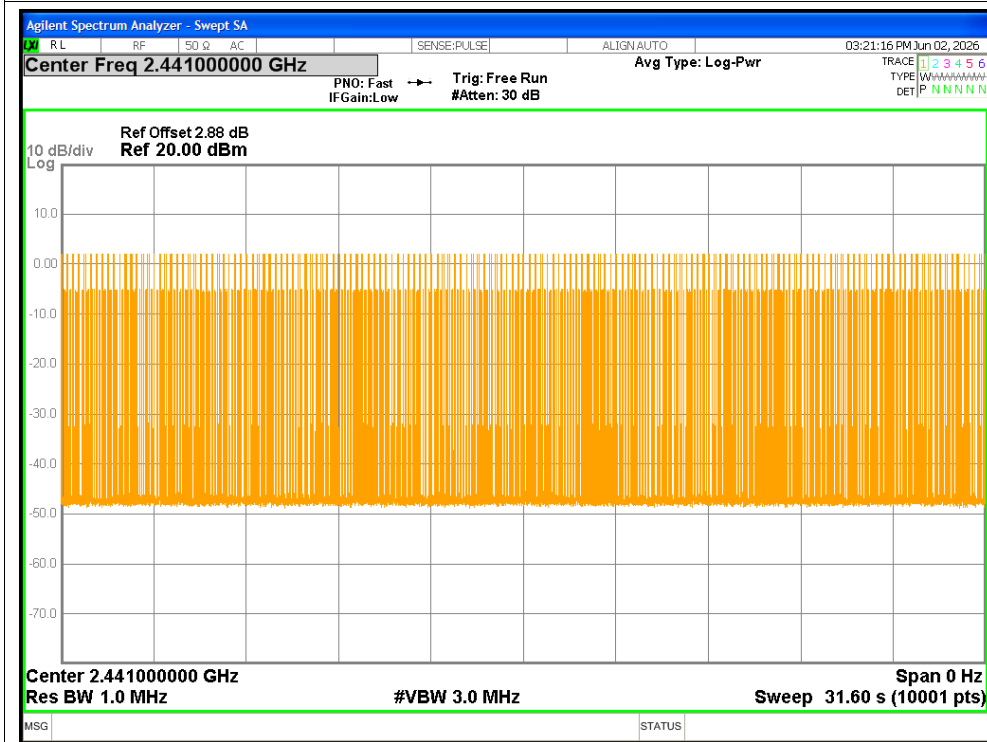
Dwell NVNT 1-DH5 2441MHz Accumulated



Dwell NVNT 2-DH1 2441MHz One Burst



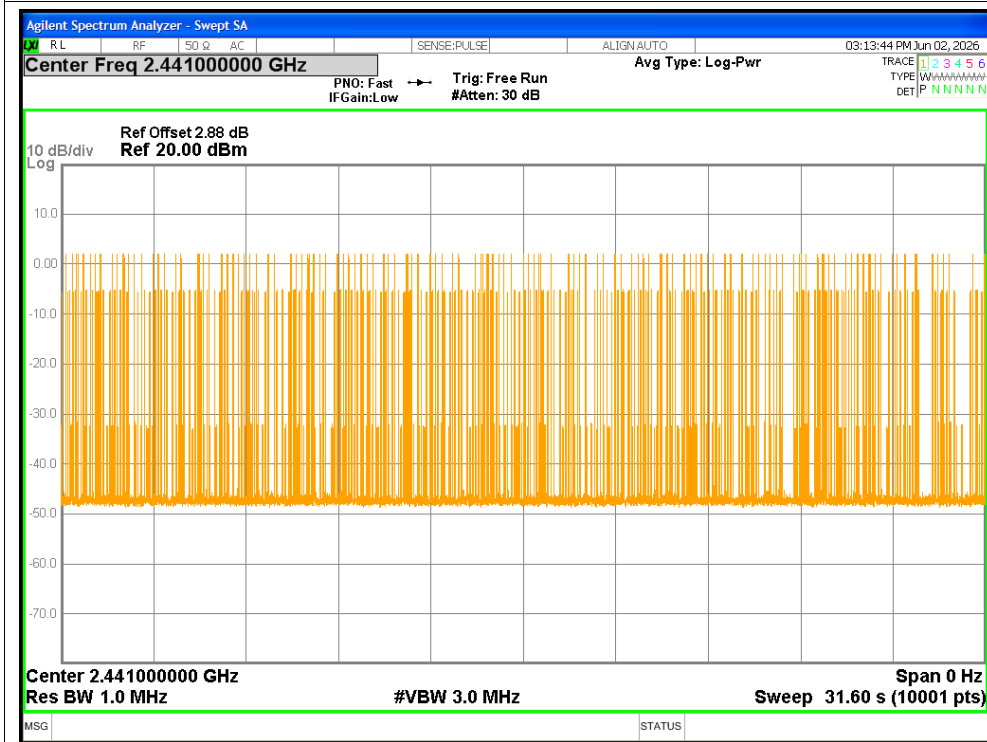
Dwell NVNT 2-DH1 2441MHz Accumulated



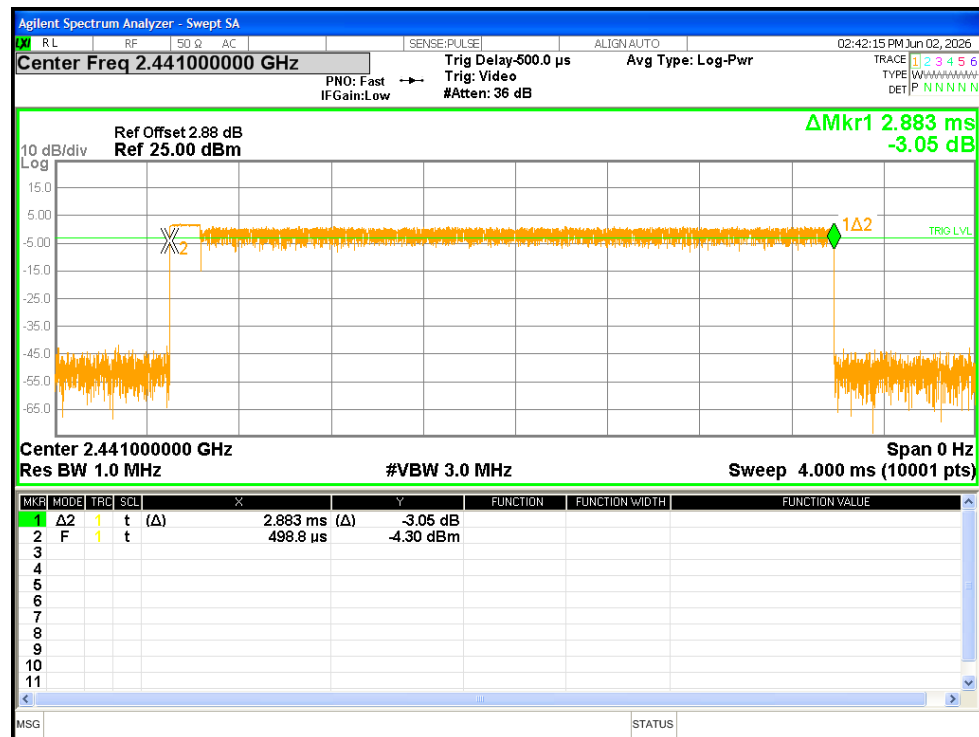
Dwell NVNT 2-DH3 2441MHz One Burst



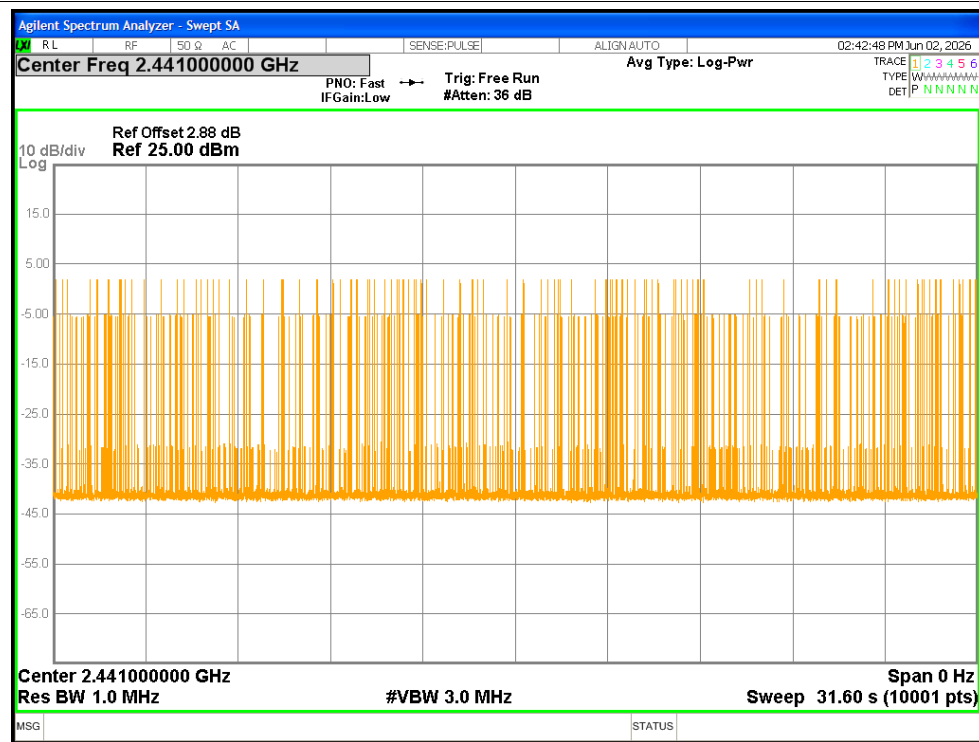
Dwell NVNT 2-DH3 2441MHz Accumulated



Dwell NVNT 2-DH5 2441MHz One Burst



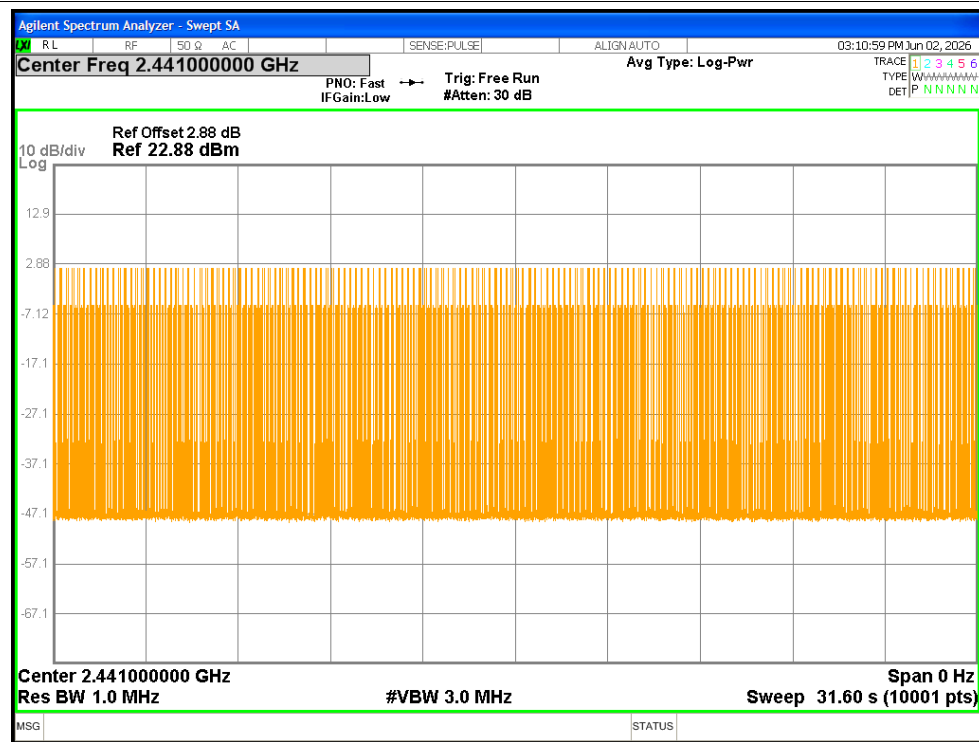
Dwell NVNT 2-DH5 2441MHz Accumulated



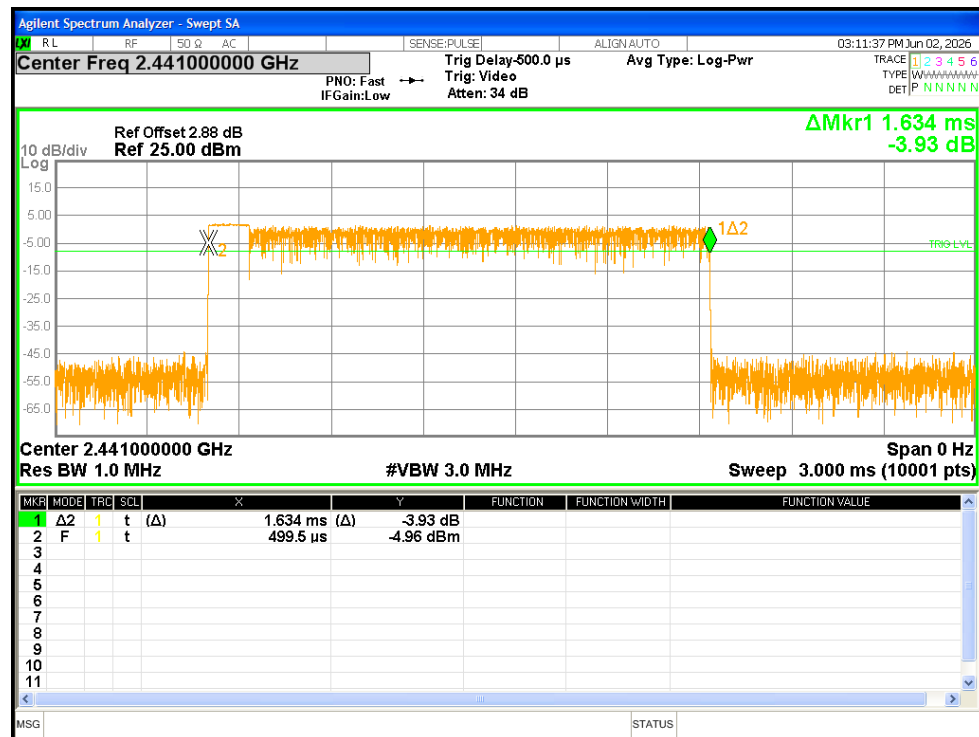
Dwell NVNT 3-DH1 2441MHz One Burst



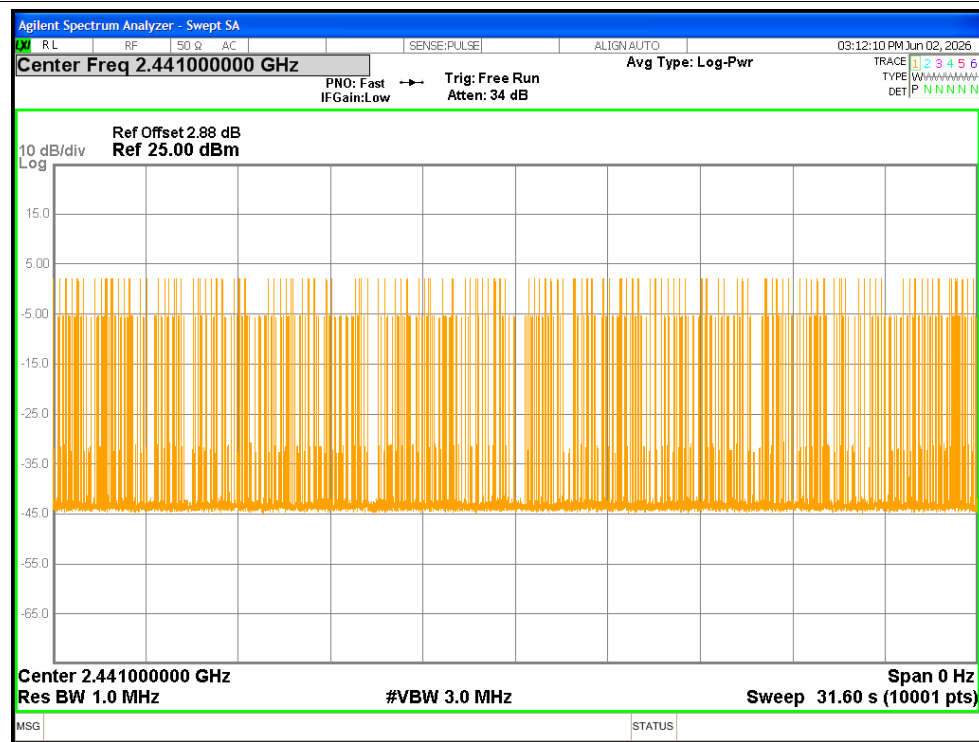
Dwell NVNT 3-DH1 2441MHz Accumulated



Dwell NVNT 3-DH3 2441MHz One Burst



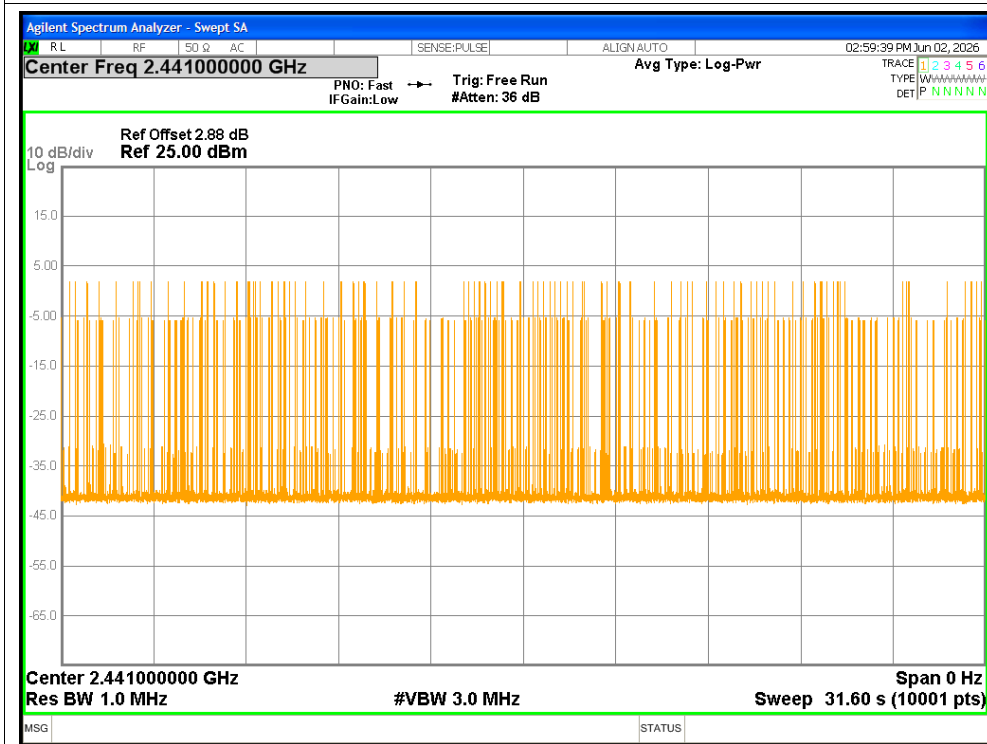
Dwell NVNT 3-DH3 2441MHz Accumulated



Dwell NVNT 3-DH5 2441MHz One Burst



Dwell NVNT 3-DH5 2441MHz Accumulated



Maximum Peak Conducted Output Power

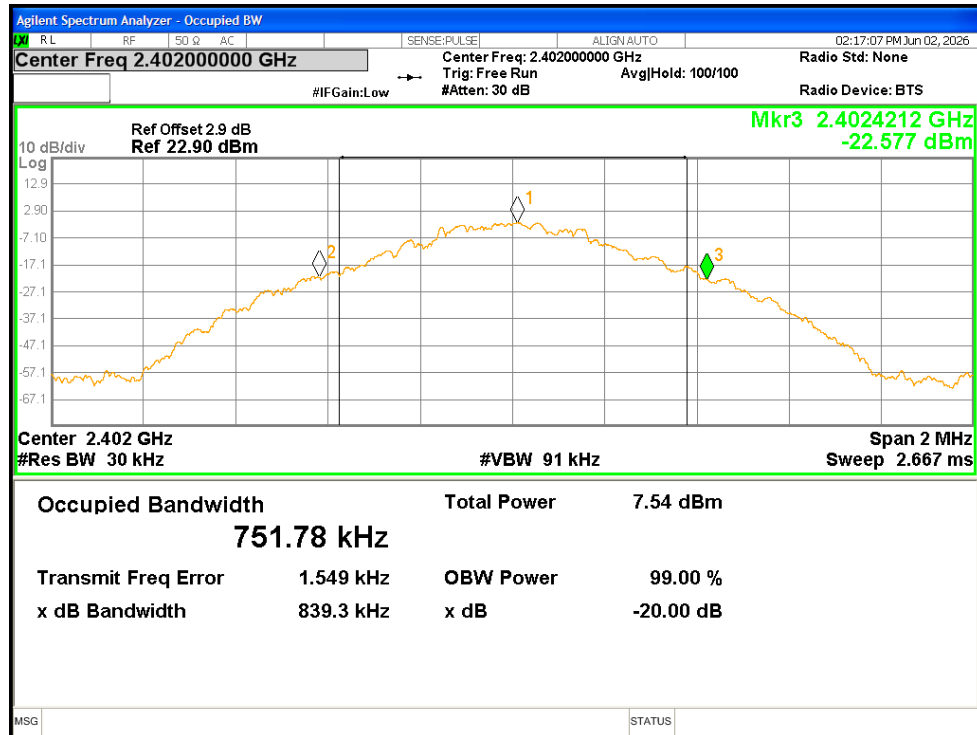
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	1.4	<=30	Pass
NVNT	1-DH5	2441	2.81	<=30	Pass
NVNT	1-DH5	2480	2.1	<=30	Pass
NVNT	2-DH5	2402	0.55	<=21	Pass
NVNT	2-DH5	2441	1.94	<=21	Pass
NVNT	2-DH5	2480	1.23	<=21	Pass
NVNT	3-DH5	2402	0.59	<=21	Pass
NVNT	3-DH5	2441	2	<=21	Pass
NVNT	3-DH5	2480	1.22	<=21	Pass

-20dB Bandwidth

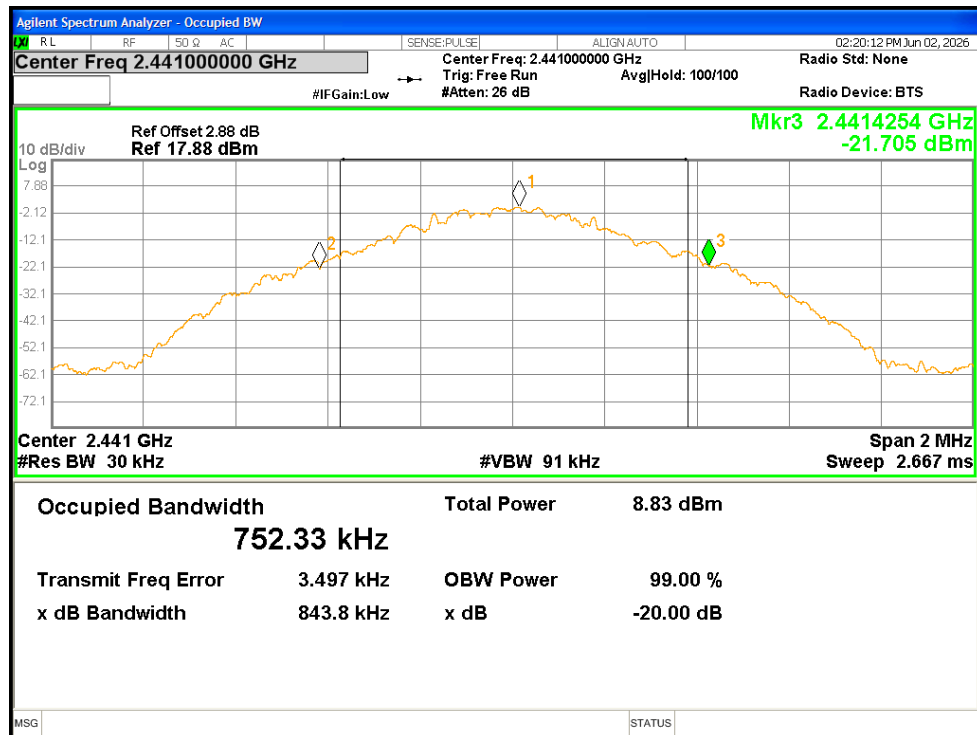
Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	0.8393	Pass
NVNT	1-DH5	2441	0.8438	Pass
NVNT	1-DH5	2480	0.8552	Pass
NVNT	2-DH5	2402	1.273	Pass
NVNT	2-DH5	2441	1.26	Pass
NVNT	2-DH5	2480	1.304	Pass
NVNT	3-DH5	2402	1.266	Pass
NVNT	3-DH5	2441	1.284	Pass
NVNT	3-DH5	2480	1.288	Pass

Test Graphs

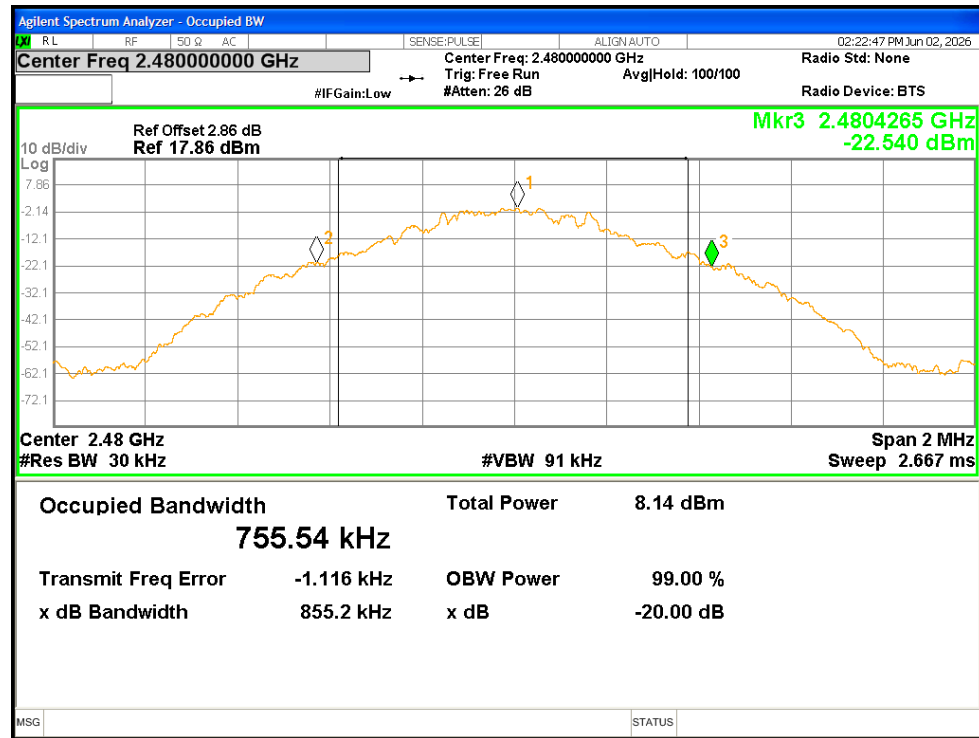
-20dB Bandwidth NVNT 1-DH5 2402MHz



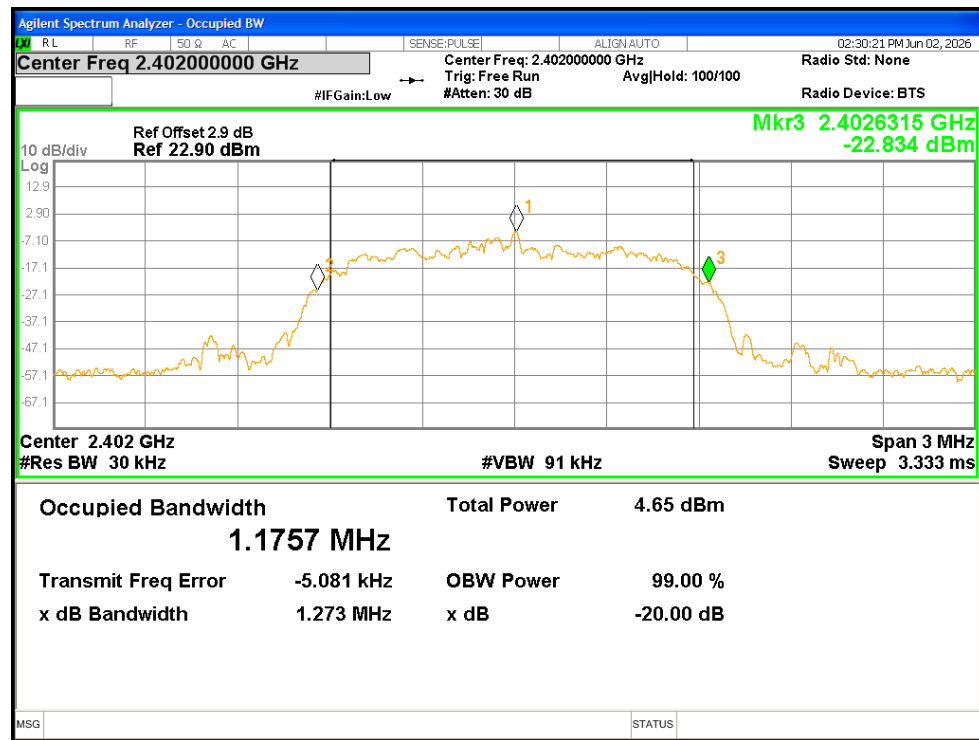
-20dB Bandwidth NVNT 1-DH5 2441MHz



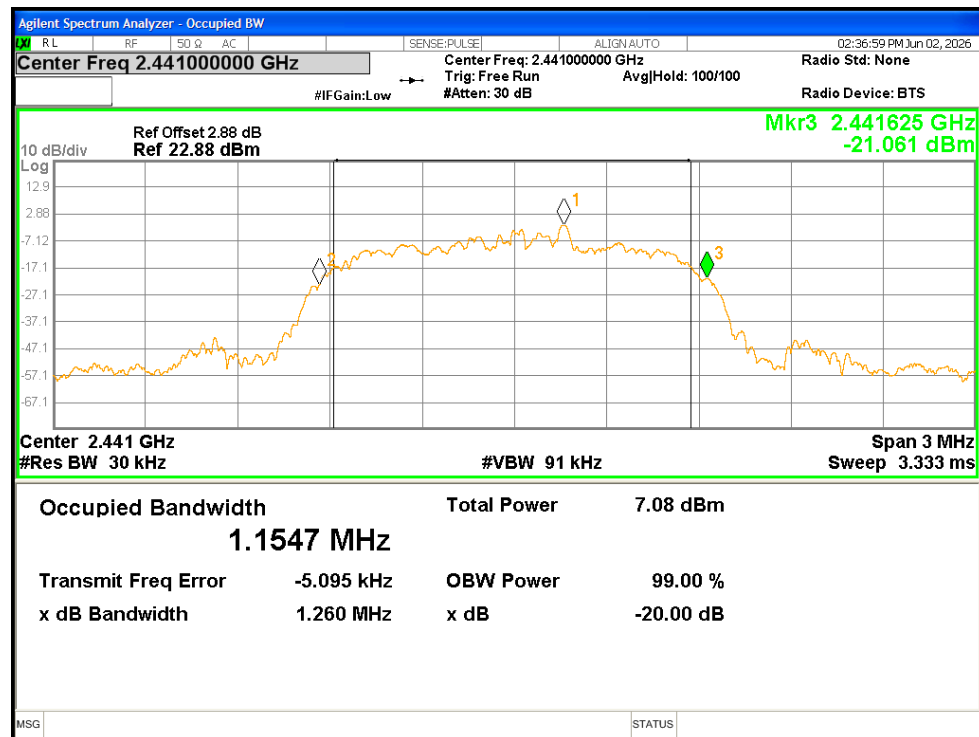
-20dB Bandwidth NVNT 1-DH5 2480MHz



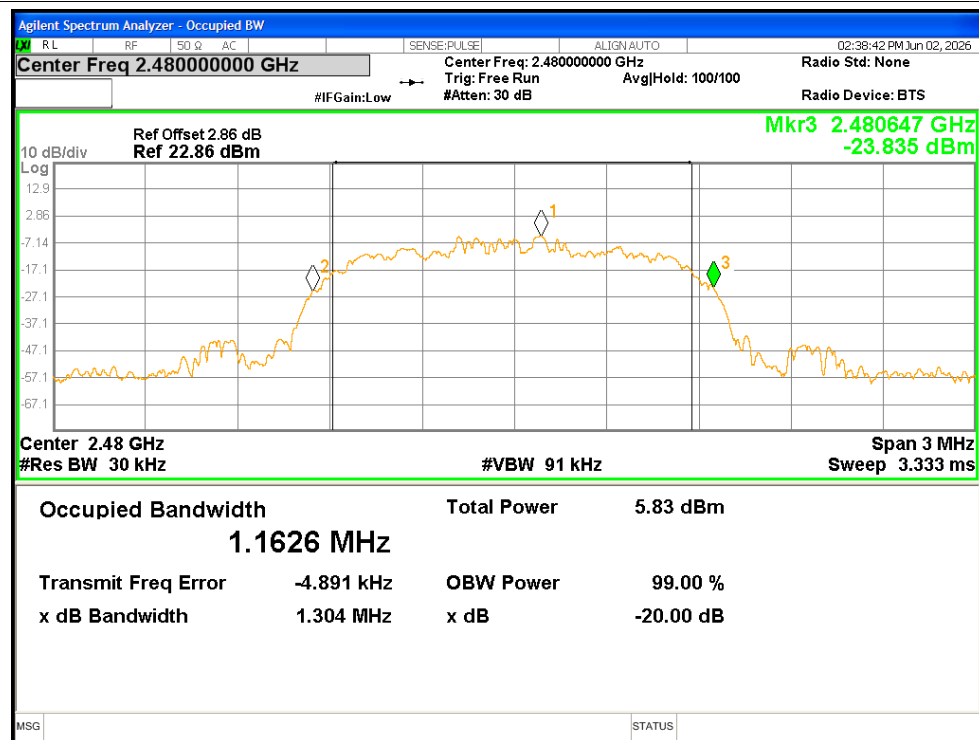
-20dB Bandwidth NVNT 2-DH5 2402MHz



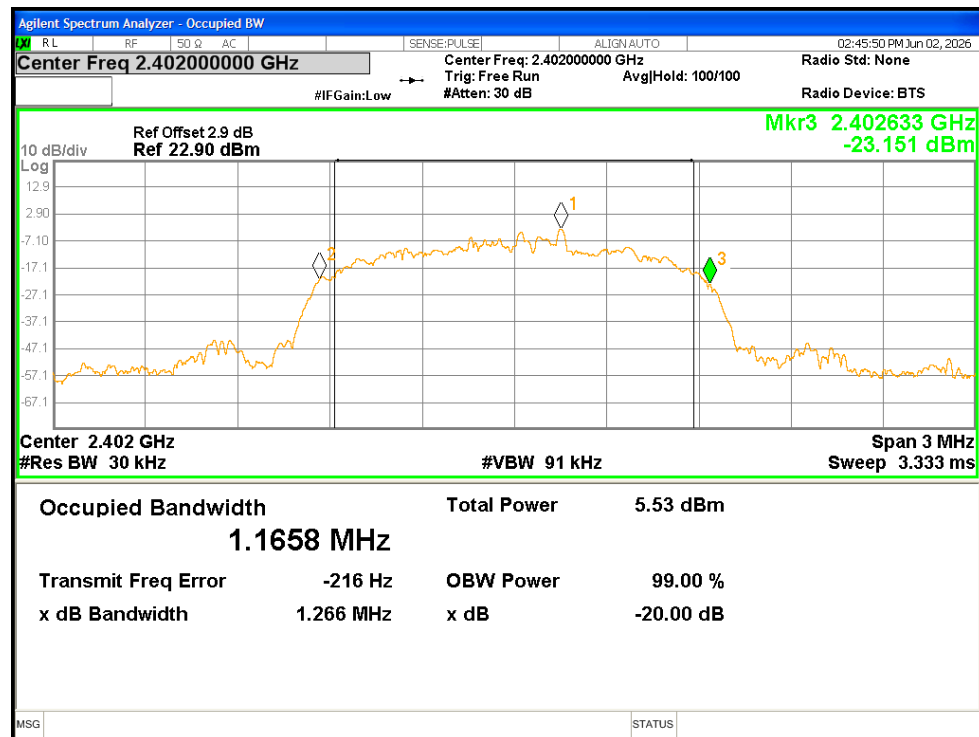
-20dB Bandwidth NVNT 2-DH5 2441MHz



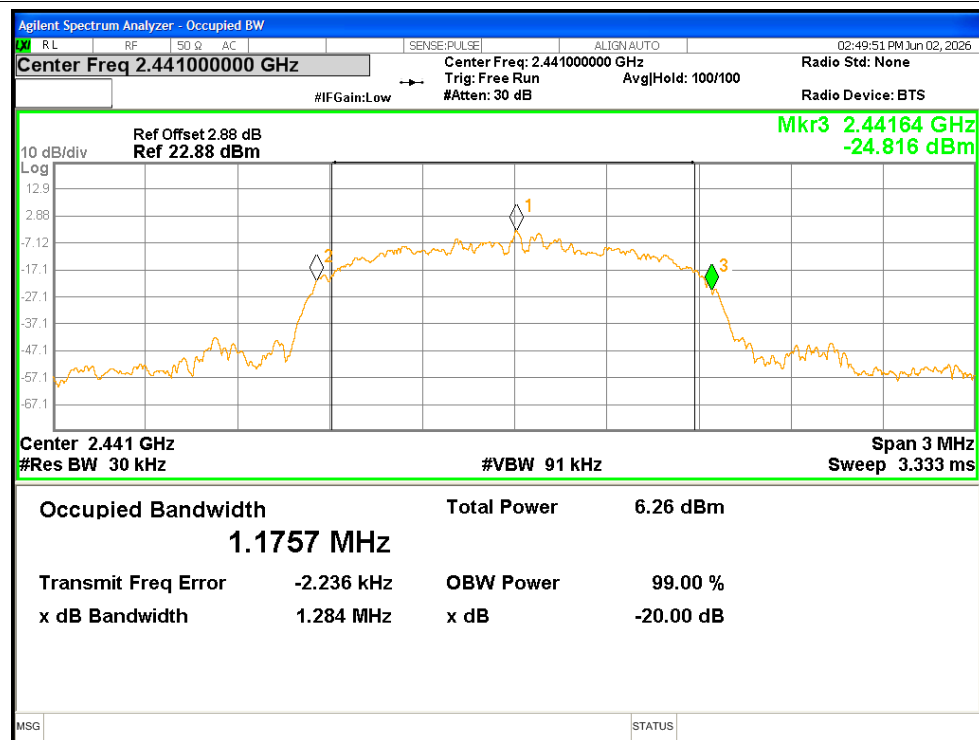
-20dB Bandwidth NVNT 2-DH5 2480MHz



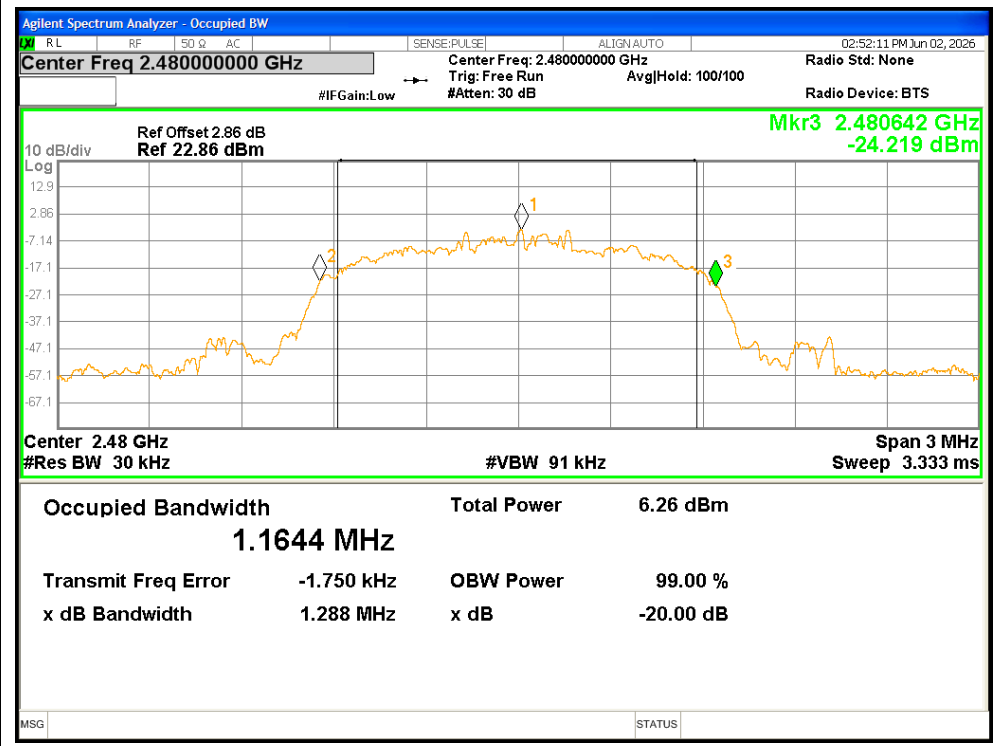
-20dB Bandwidth NVNT 3-DH5 2402MHz



-20dB Bandwidth NVNT 3-DH5 2441MHz



-20dB Bandwidth NVNT 3-DH5 2480MHz

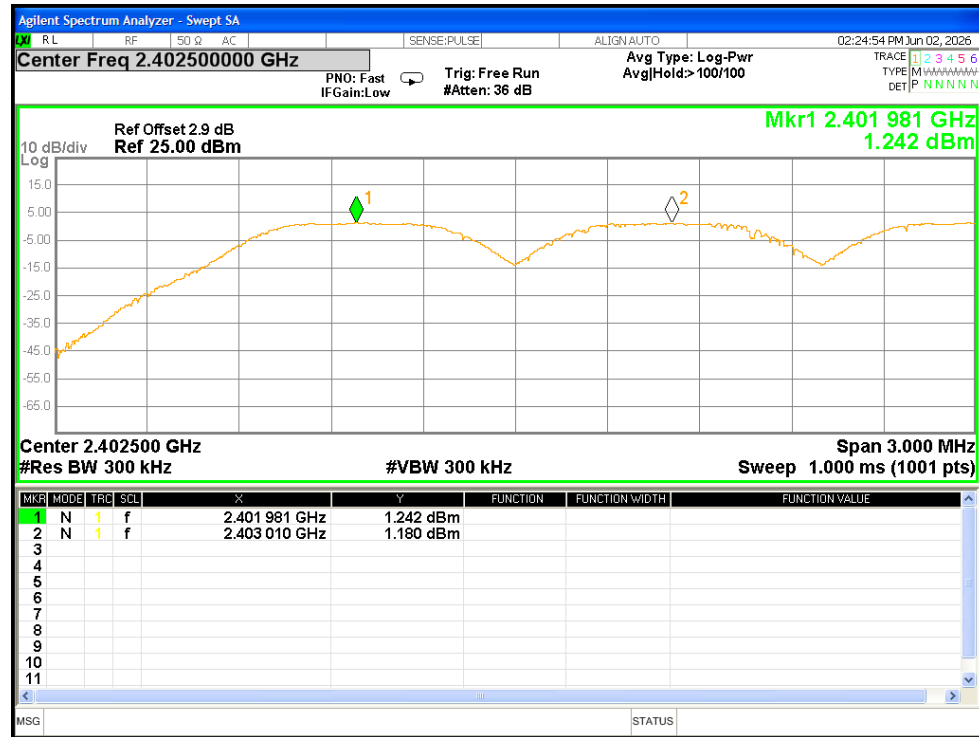


Carrier Frequencies Separation

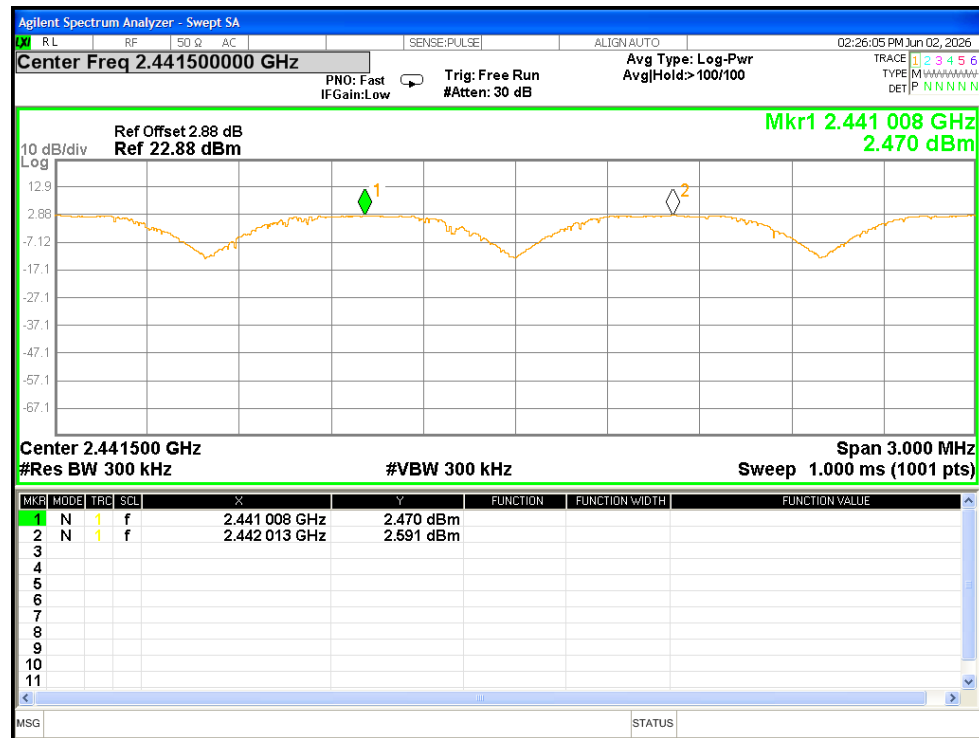
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2401.981	2403.01	1.029	≥ 0.8393	Pass
NVNT	1-DH5	2441.008	2442.013	1.005	≥ 0.8438	Pass
NVNT	1-DH5	2479.005	2480.004	0.999	≥ 0.8552	Pass
NVNT	2-DH5	2401.816	2403.244	1.428	≥ 0.849	Pass
NVNT	2-DH5	2440.84	2442.19	1.35	≥ 0.84	Pass
NVNT	2-DH5	2479.167	2480.115	0.948	≥ 0.869	Pass
NVNT	3-DH5	2401.723	2403.151	1.428	≥ 0.844	Pass
NVNT	3-DH5	2440.984	2442.241	1.257	≥ 0.856	Pass
NVNT	3-DH5	2479.05	2480.121	1.071	≥ 0.859	Pass

Test Graphs

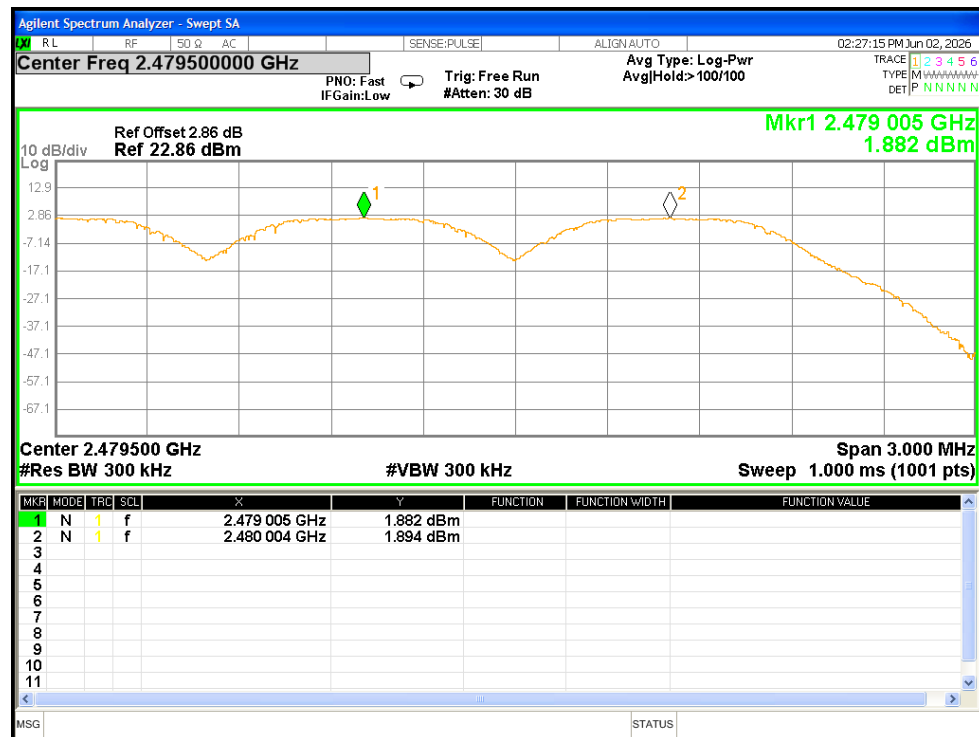
CFS NVNT 1-DH5 2402MHz



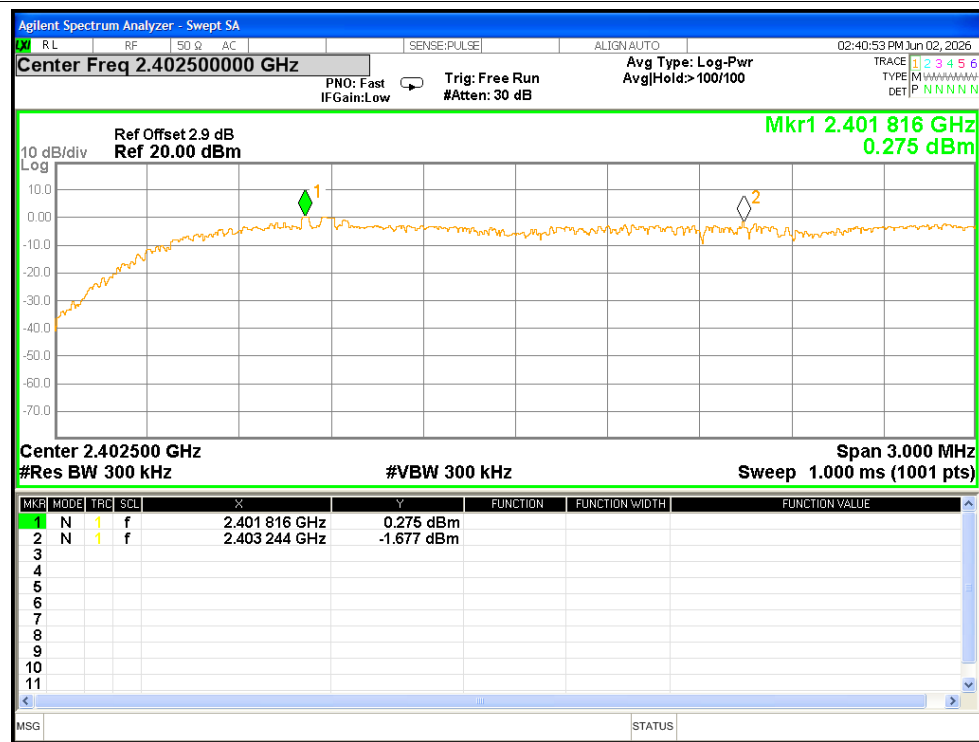
CFS NVNT 1-DH5 2441MHz



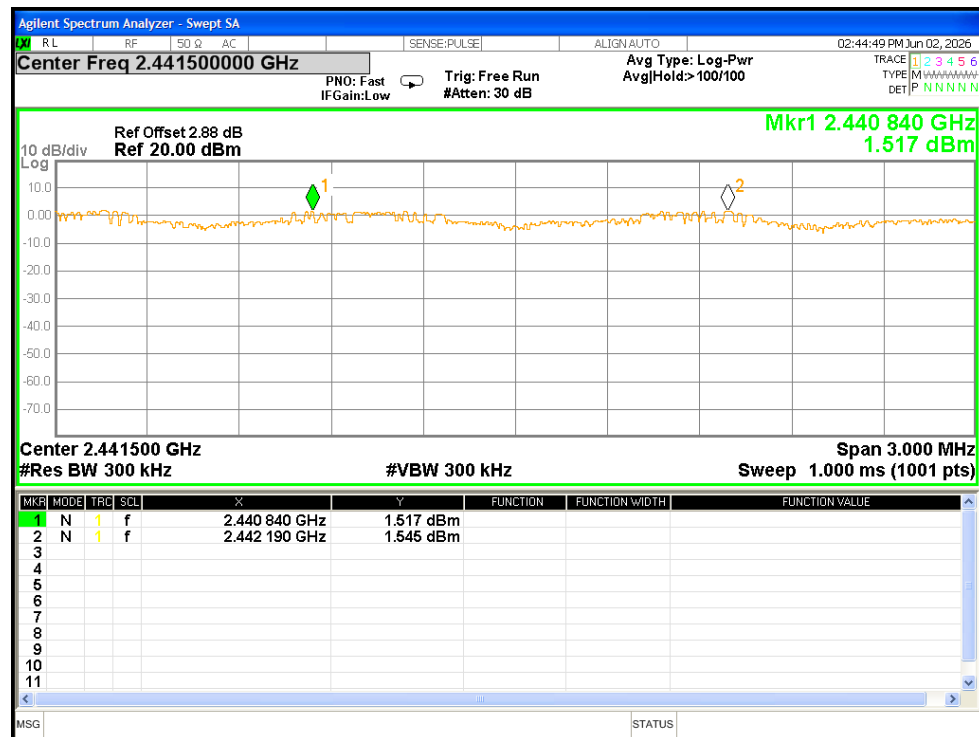
CFS NVNT 1-DH5 2480MHz



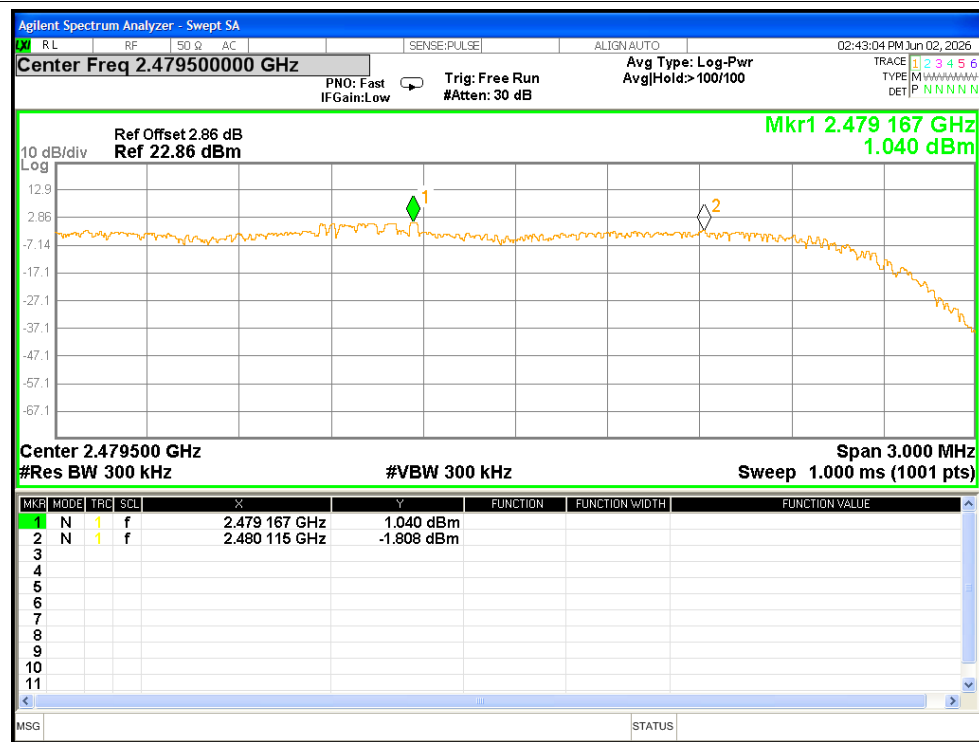
CFS NVNT 2-DH5 2402MHz



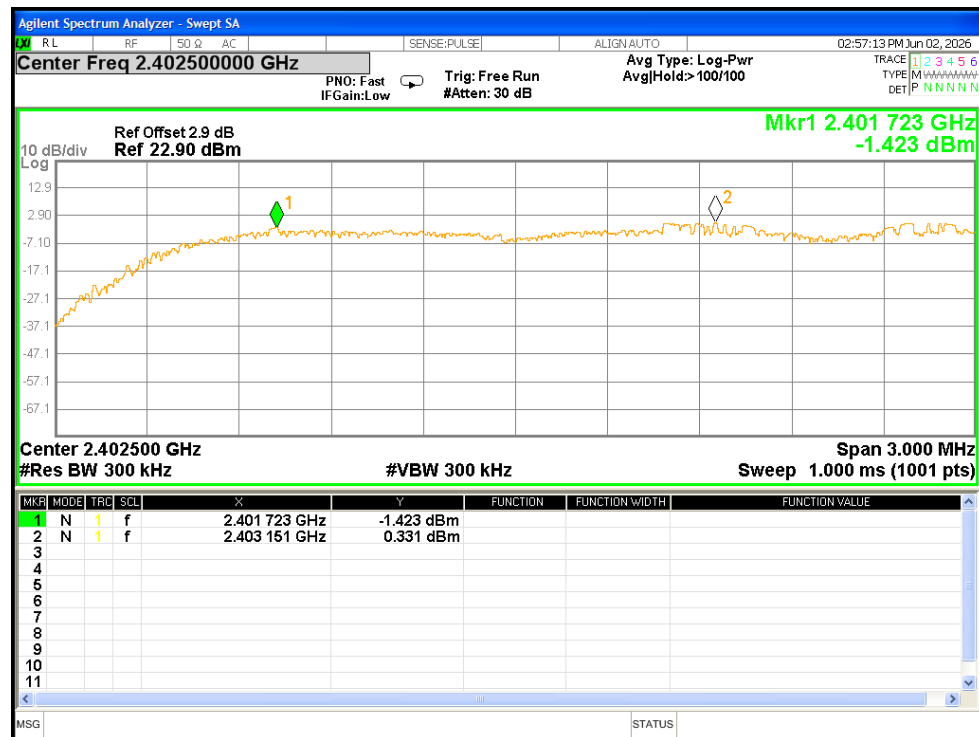
CFS NVNT 2-DH5 2441MHz



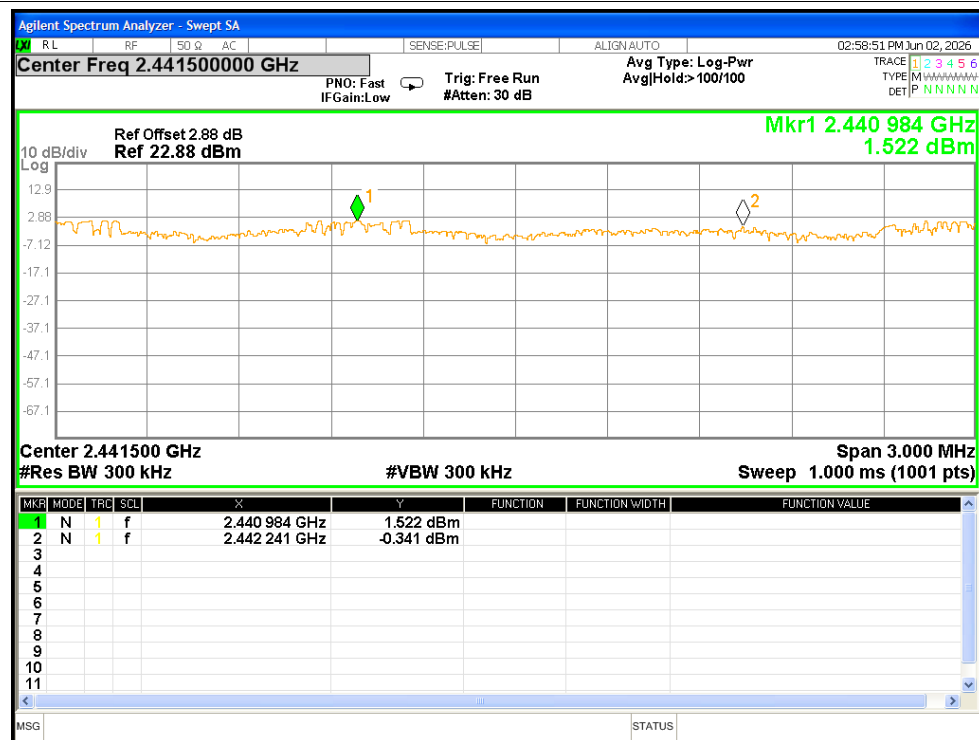
CFS NVNT 2-DH5 2480MHz



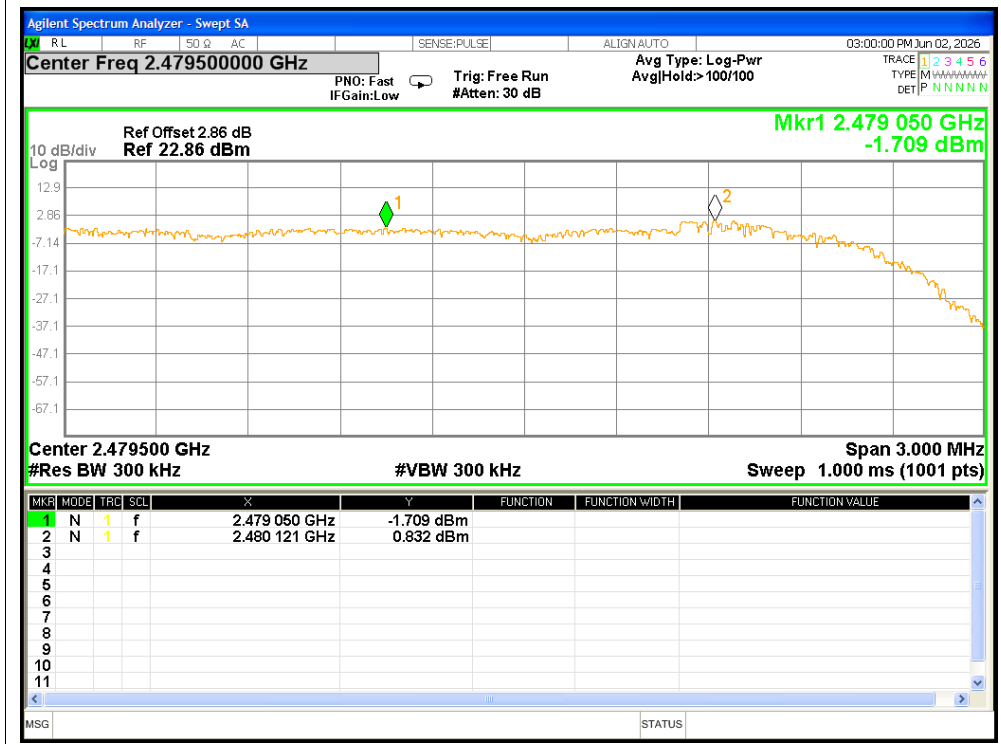
CFS NVNT 3-DH5 2402MHz



CFS NVNT 3-DH5 2441MHz



CFS NVNT 3-DH5 2480MHz

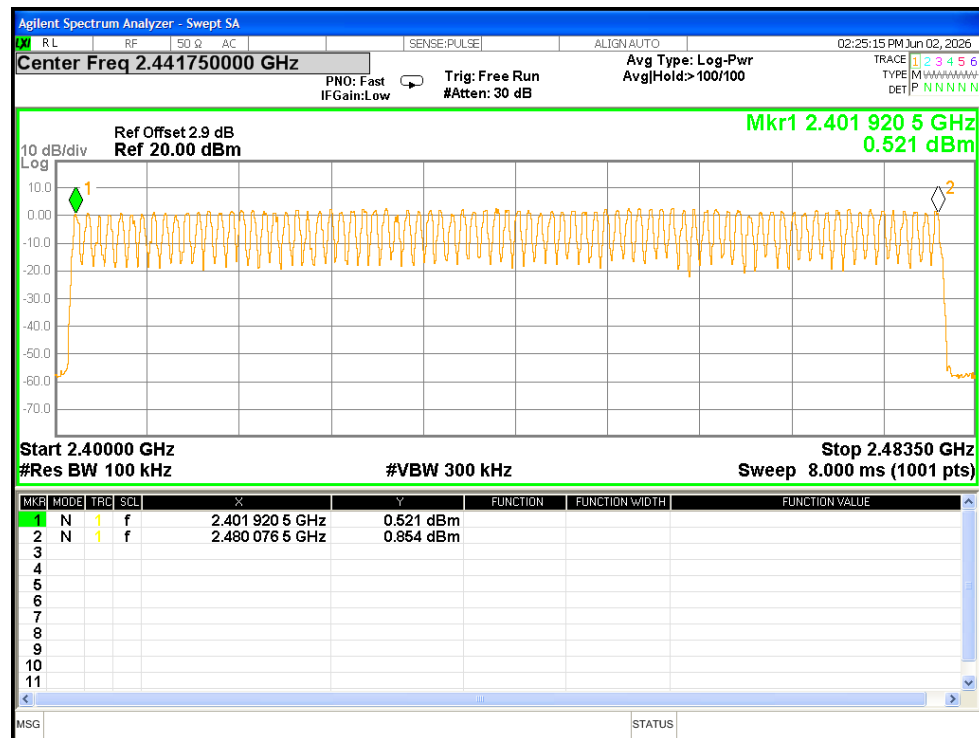


Number of Hopping Channel

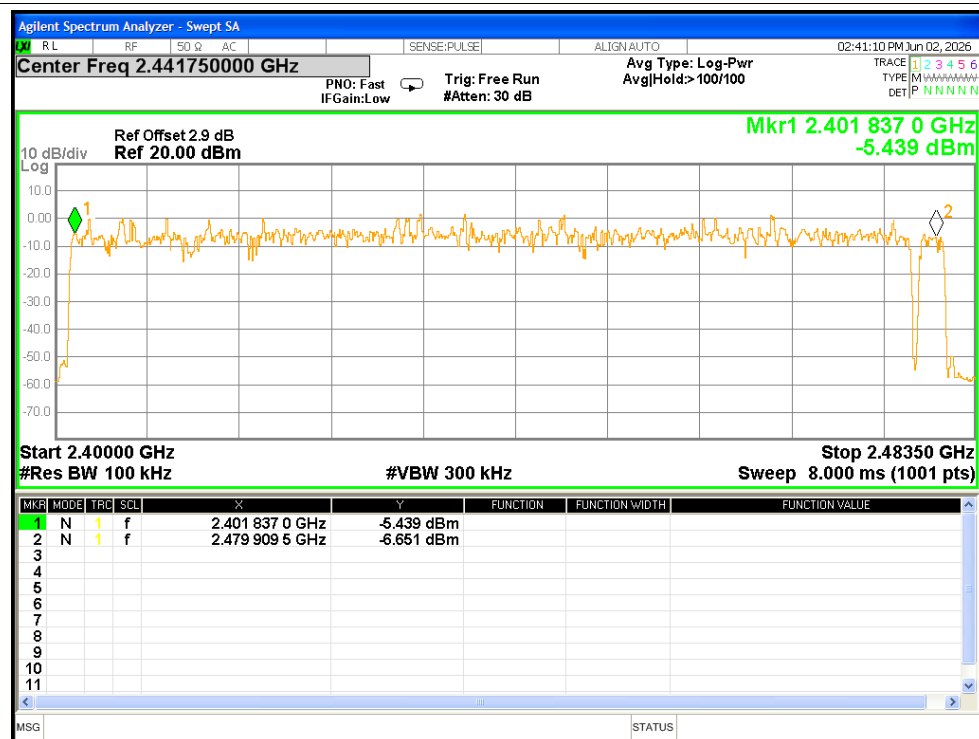
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH5	79	≥ 15	Pass
NVNT	2-DH5	79	≥ 15	Pass
NVNT	3-DH5	79	≥ 15	Pass

Test Graphs

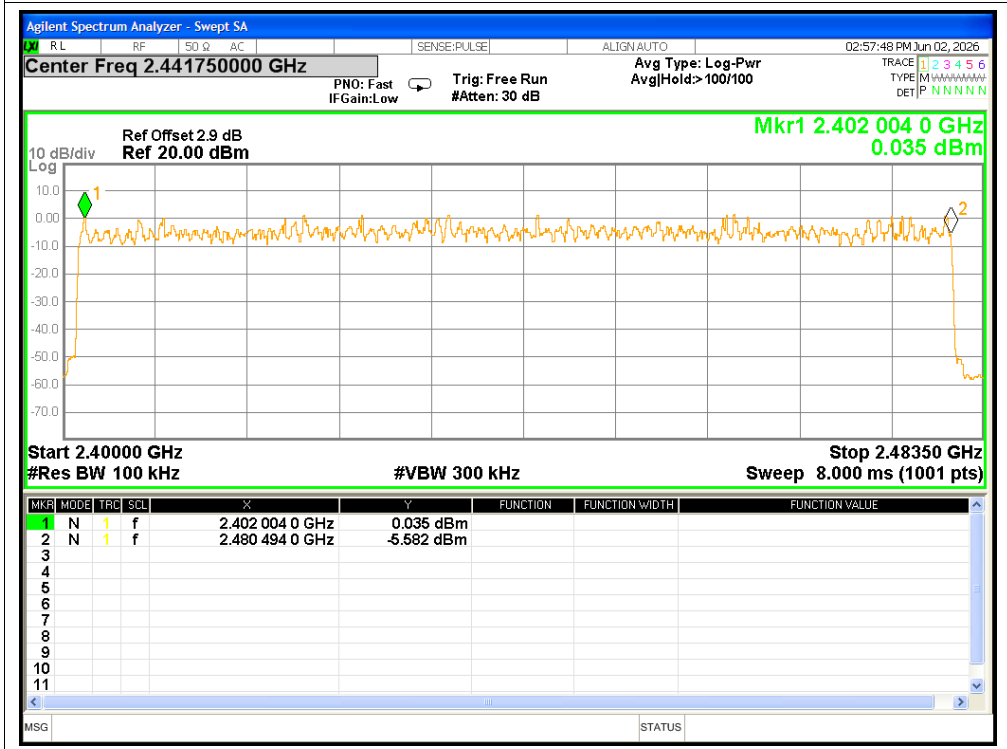
Hopping No. NVNT 1-DH5 Hopping



Hopping No. NVNT 2-DH5 Hopping



Hopping No. NVNT 3-DH5 Hopping

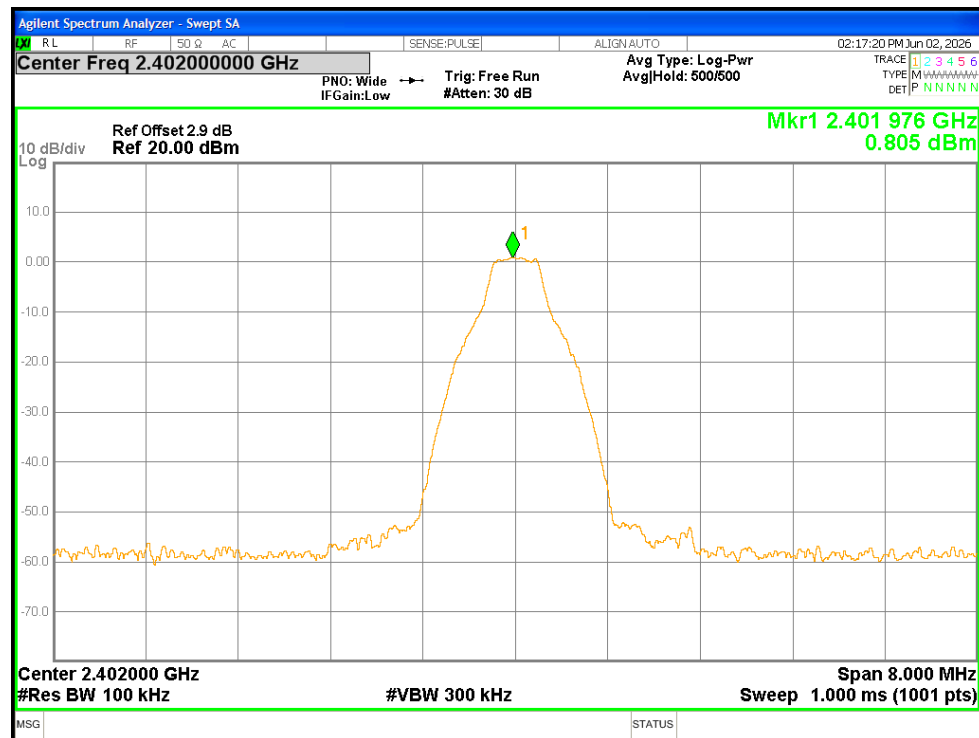


Band Edge

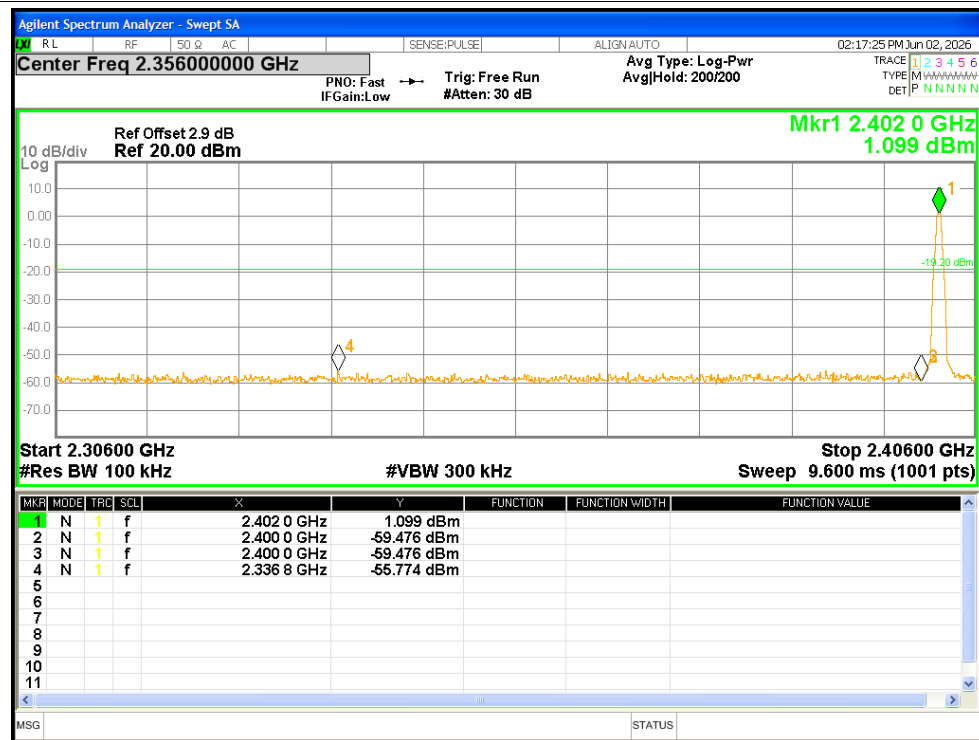
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	No-Hopping	-56.58	<=-20	Pass
NVNT	1-DH5	2480	No-Hopping	-57.63	<=-20	Pass
NVNT	2-DH5	2402	No-Hopping	-55.86	<=-20	Pass
NVNT	2-DH5	2480	No-Hopping	-56.15	<=-20	Pass
NVNT	3-DH5	2402	No-Hopping	-56.21	<=-20	Pass
NVNT	3-DH5	2480	No-Hopping	-56.76	<=-20	Pass

Test Graphs

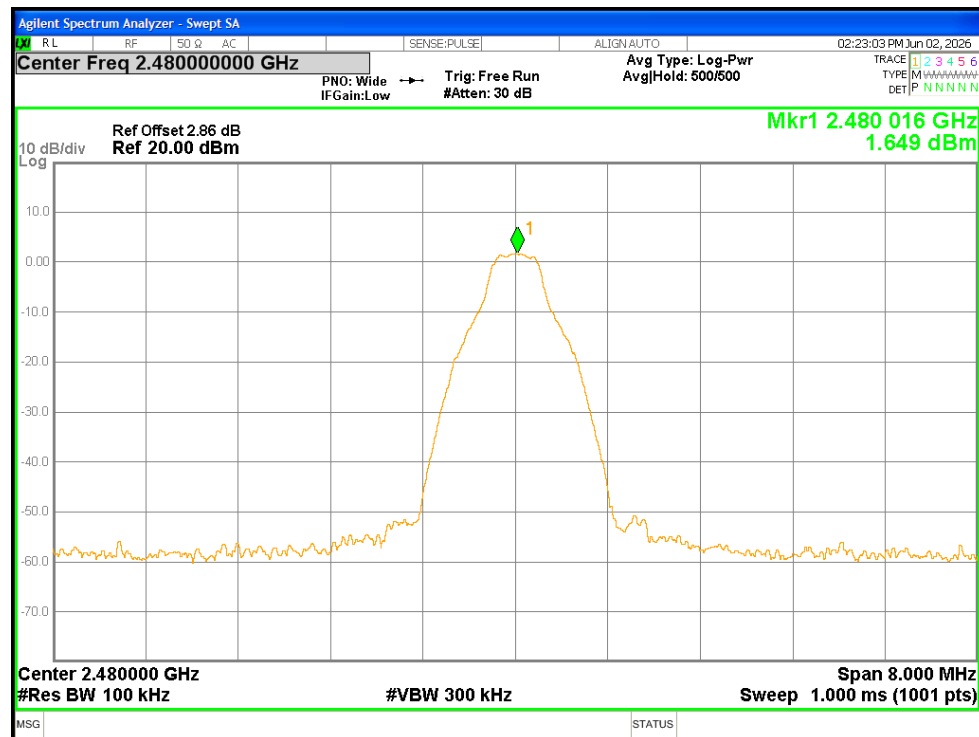
Band Edge NVNT 1-DH5 2402MHz No-Hopping Ref



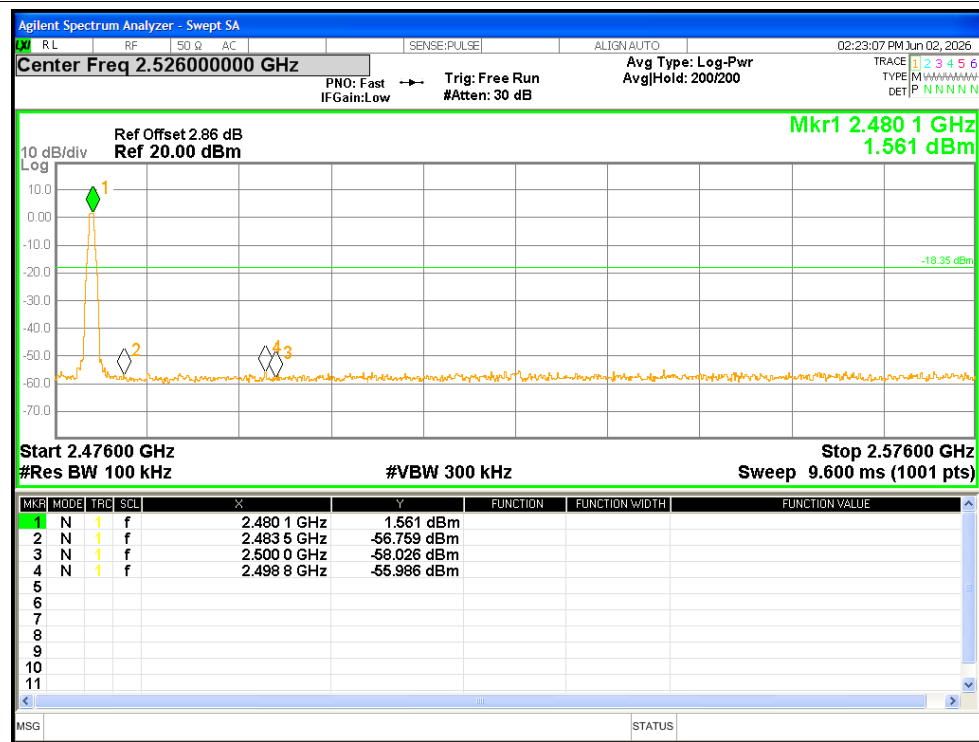
Band Edge NVNT 1-DH5 2402MHz No-Hopping Emission



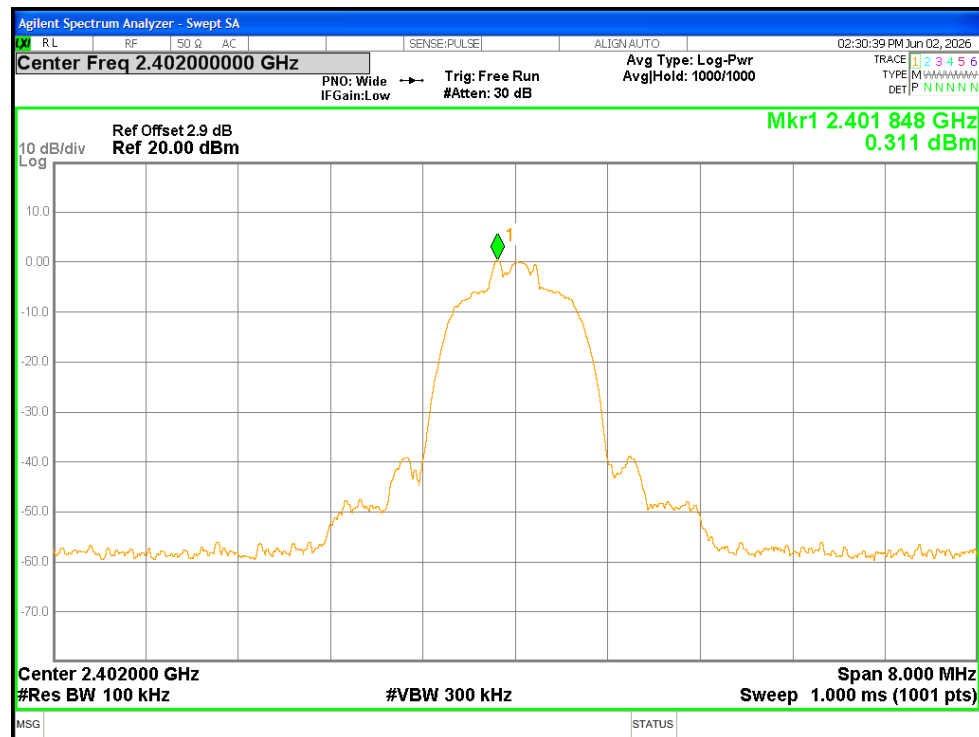
Band Edge NVNT 1-DH5 2480MHz No-Hopping Ref



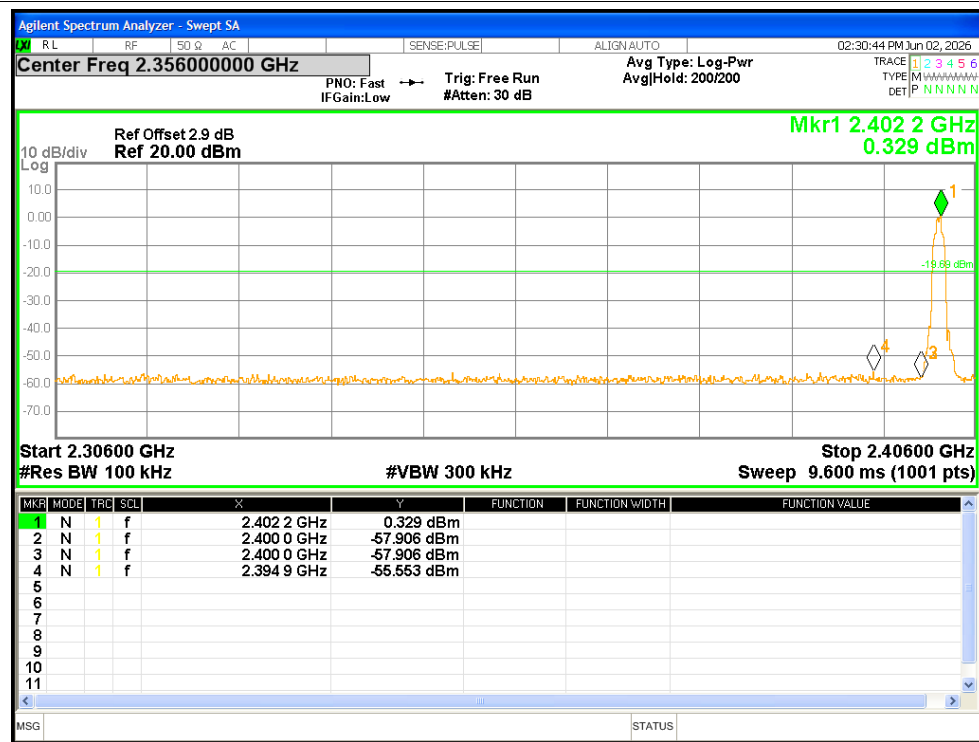
Band Edge NVNT 1-DH5 2480MHz No-Hopping Emission



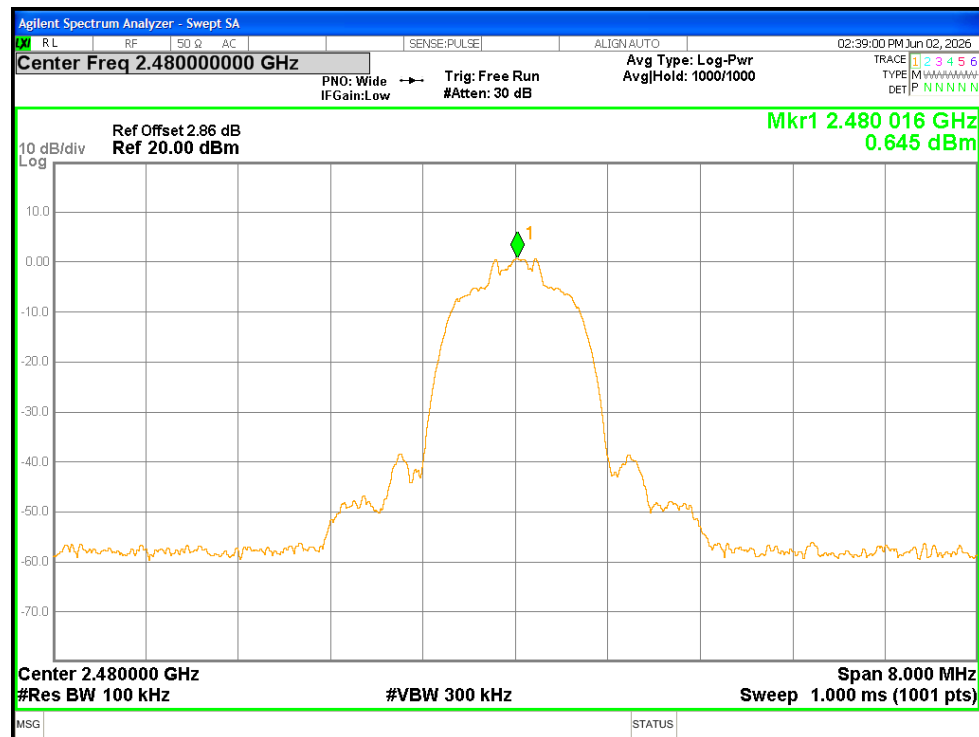
Band Edge NVNT 2-DH5 2402MHz No-Hopping Ref



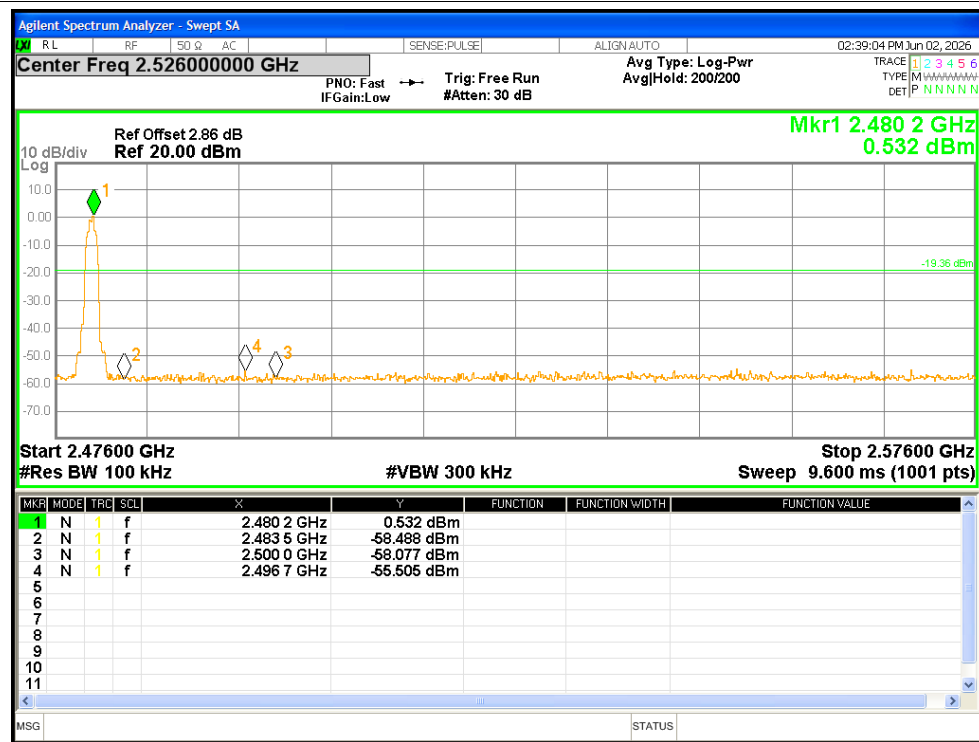
Band Edge NVNT 2-DH5 2402MHz No-Hopping Emission



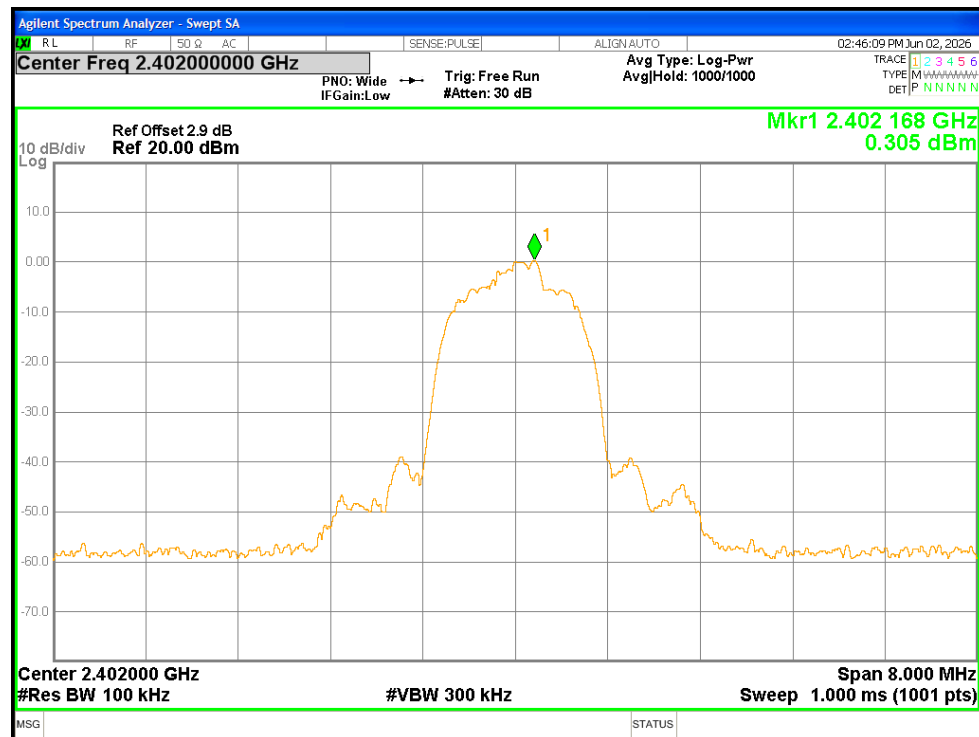
Band Edge NVNT 2-DH5 2480MHz No-Hopping Ref



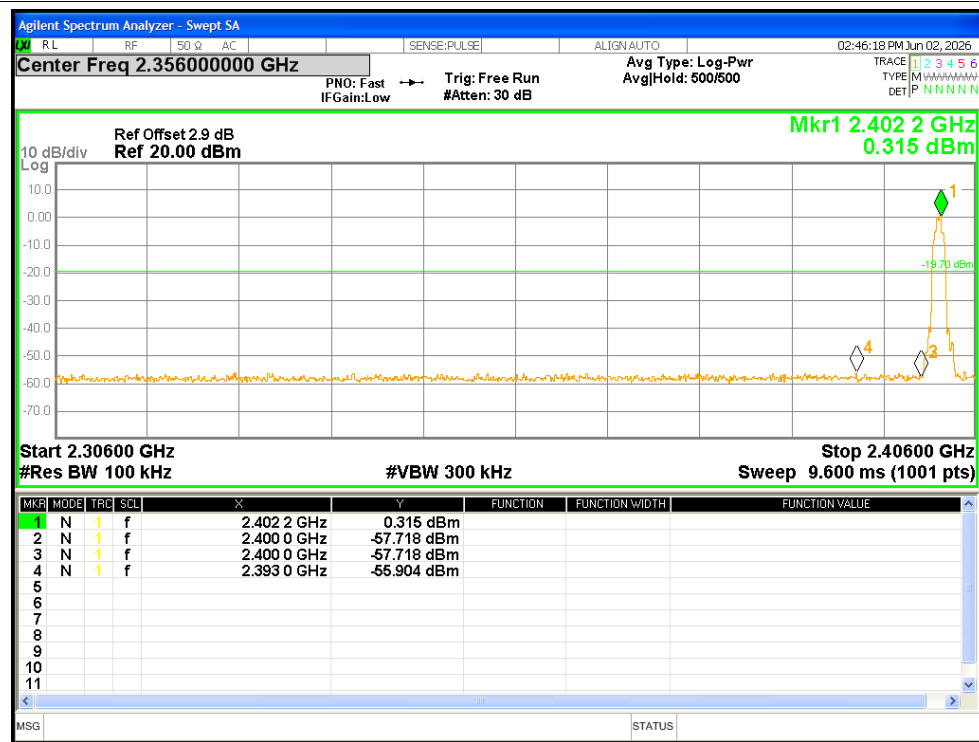
Band Edge NVNT 2-DH5 2480MHz No-Hopping Emission



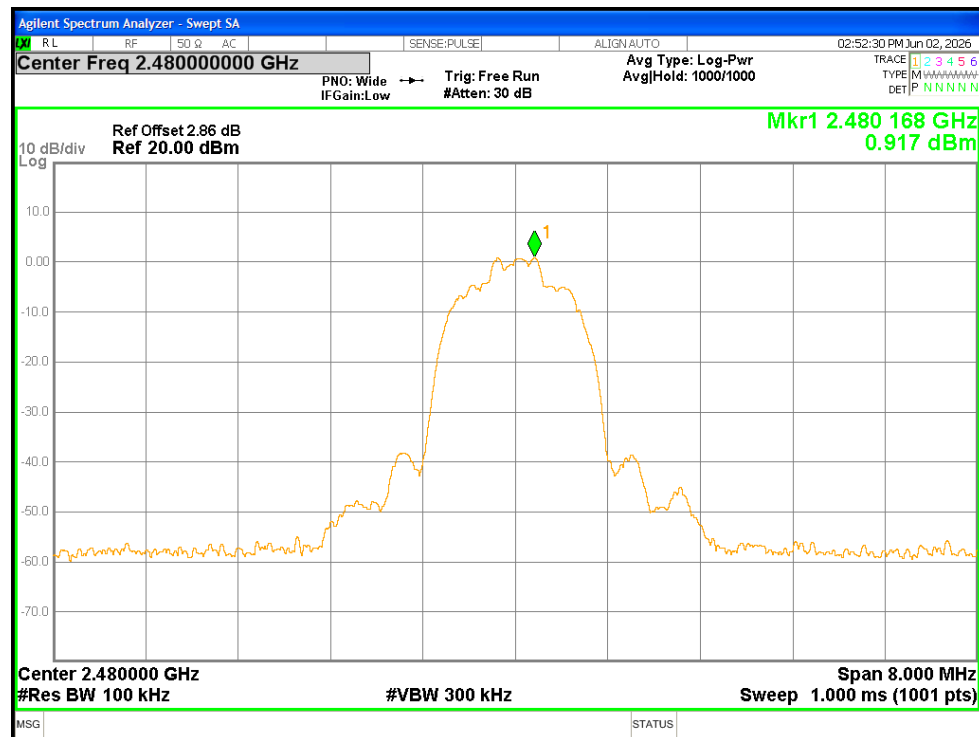
Band Edge NVNT 3-DH5 2402MHz No-Hopping Ref



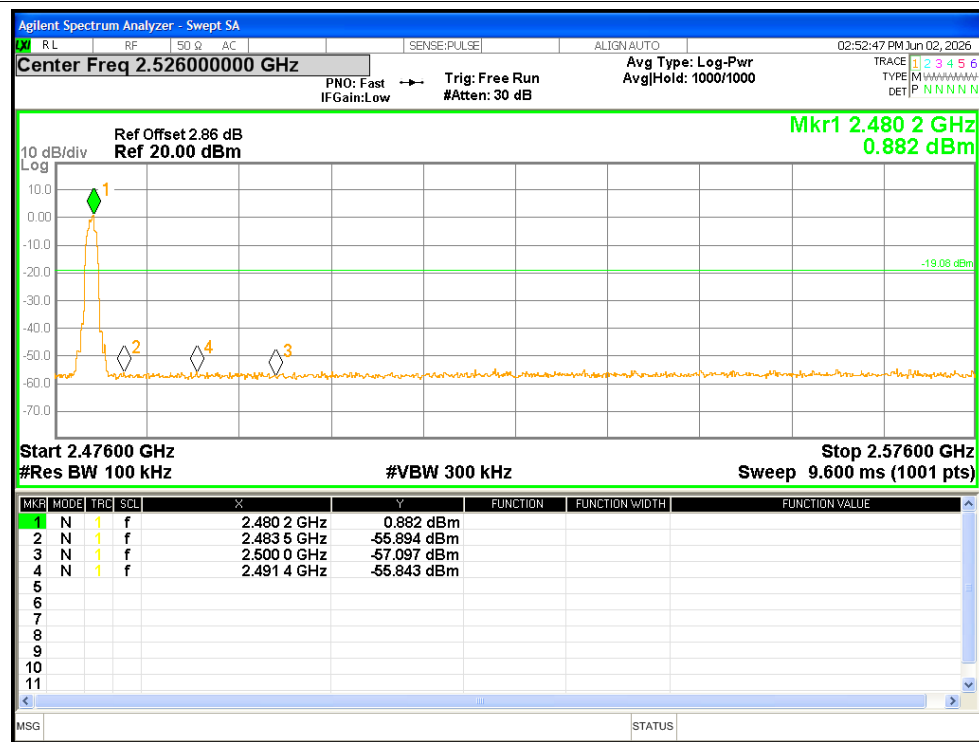
Band Edge NVNT 3-DH5 2402MHz No-Hopping Emission



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



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

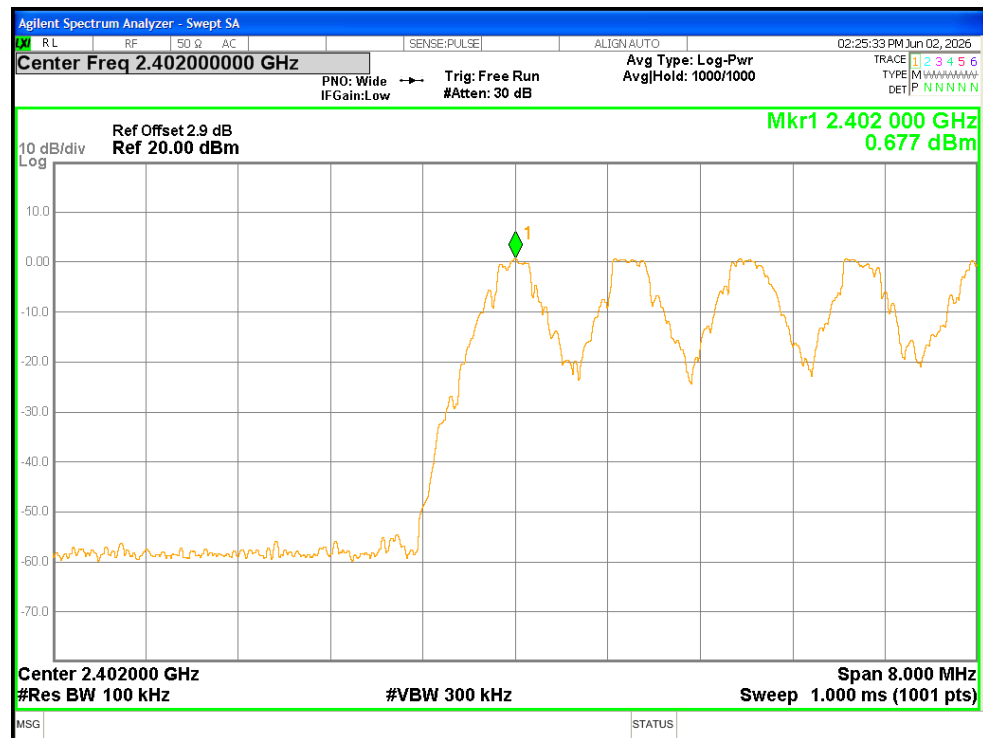


Band Edge(Hopping)

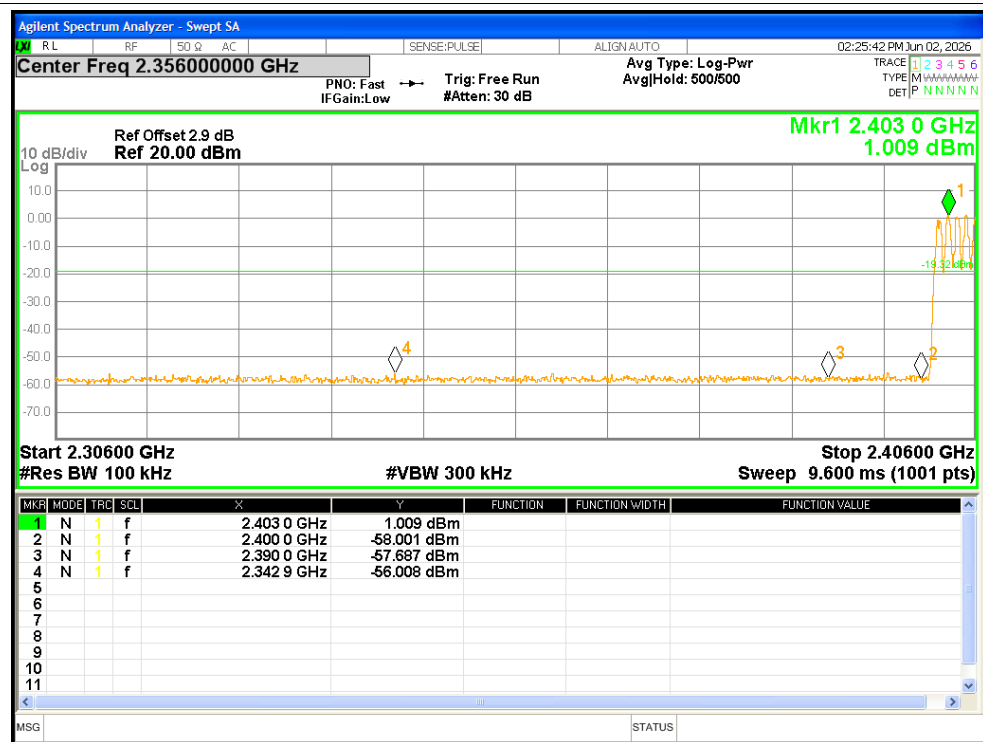
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Hopping	-56.68	<=-20	Pass
NVNT	1-DH5	2480	Hopping	-57.66	<=-20	Pass
NVNT	2-DH5	2402	Hopping	-50.43	<=-20	Pass
NVNT	2-DH5	2480	Hopping	-54.02	<=-20	Pass
NVNT	3-DH5	2402	Hopping	-55.28	<=-20	Pass
NVNT	3-DH5	2480	Hopping	-57.18	<=-20	Pass

Test Graphs

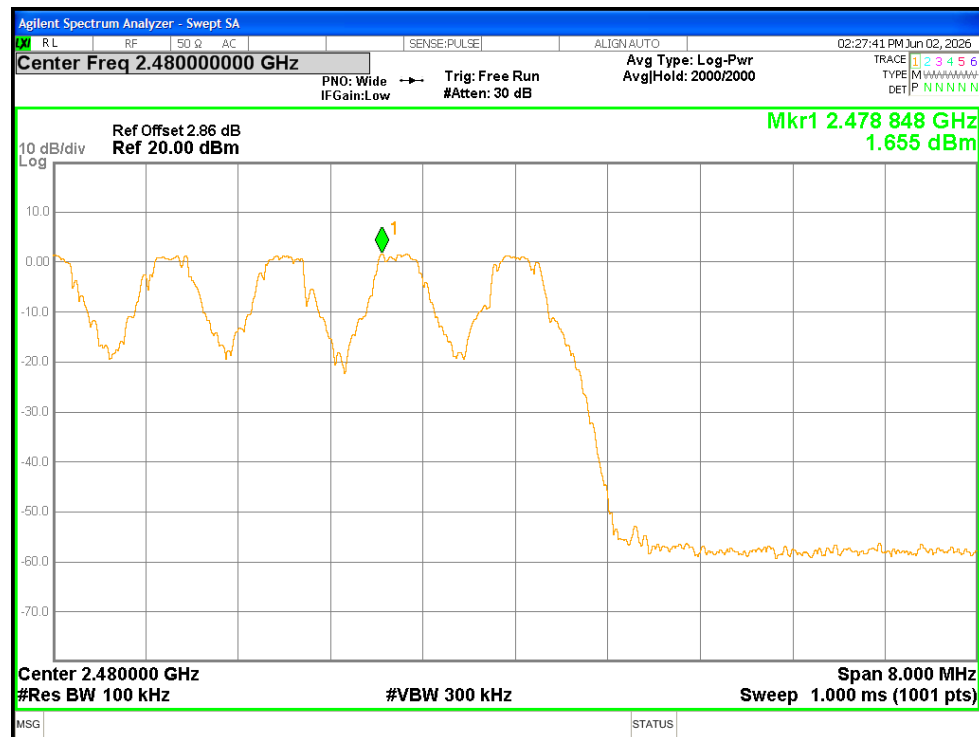
Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Ref



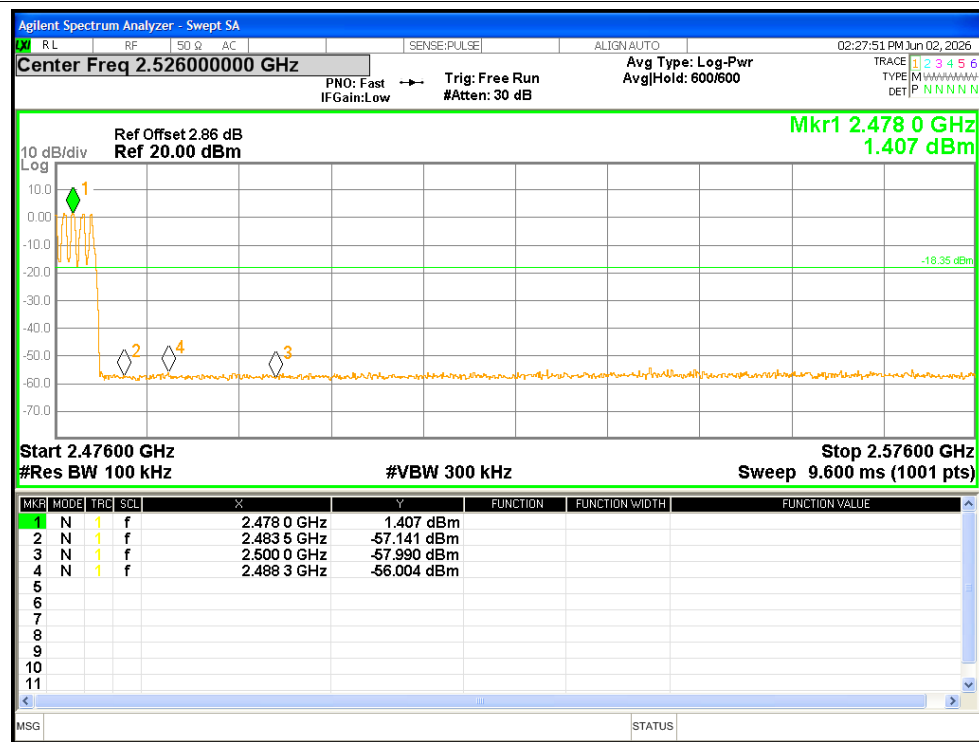
Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Emission



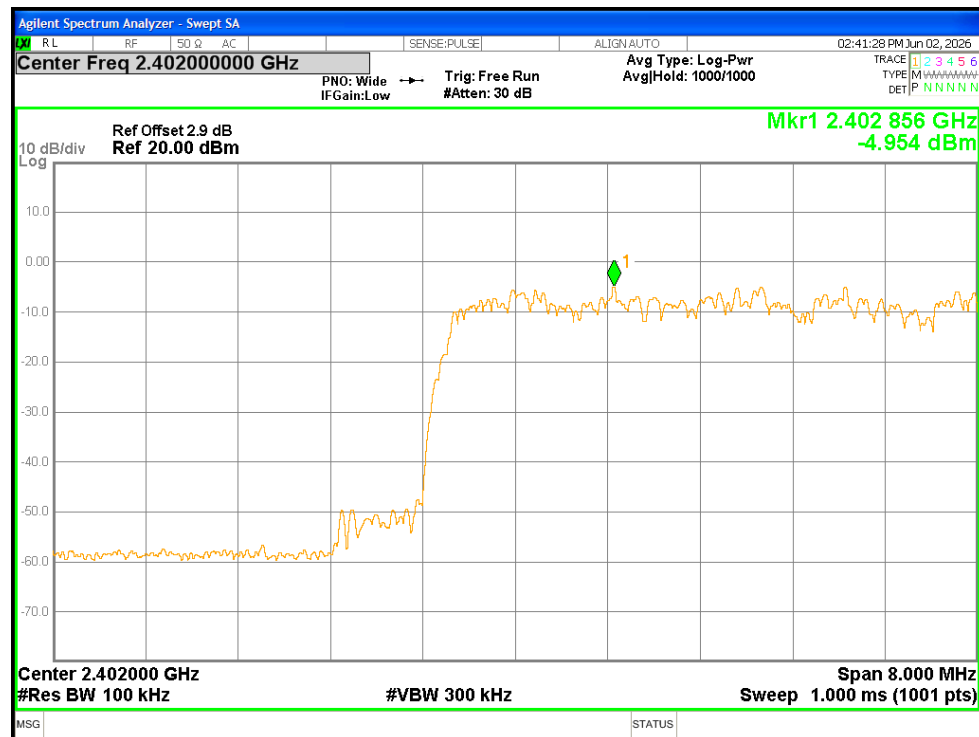
Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Ref



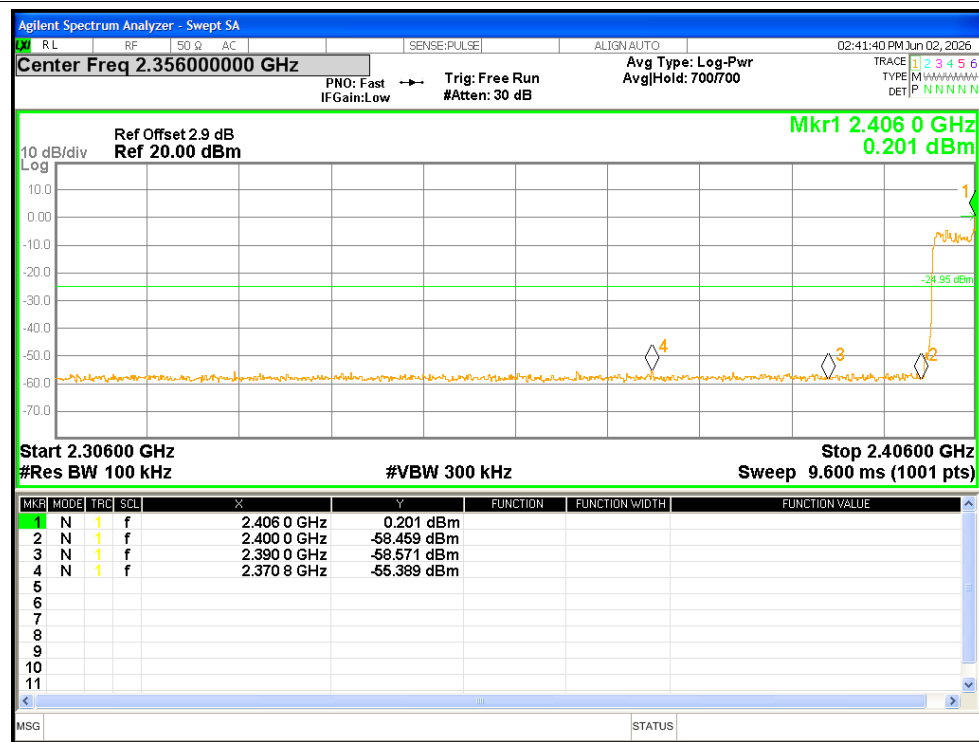
Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Emission



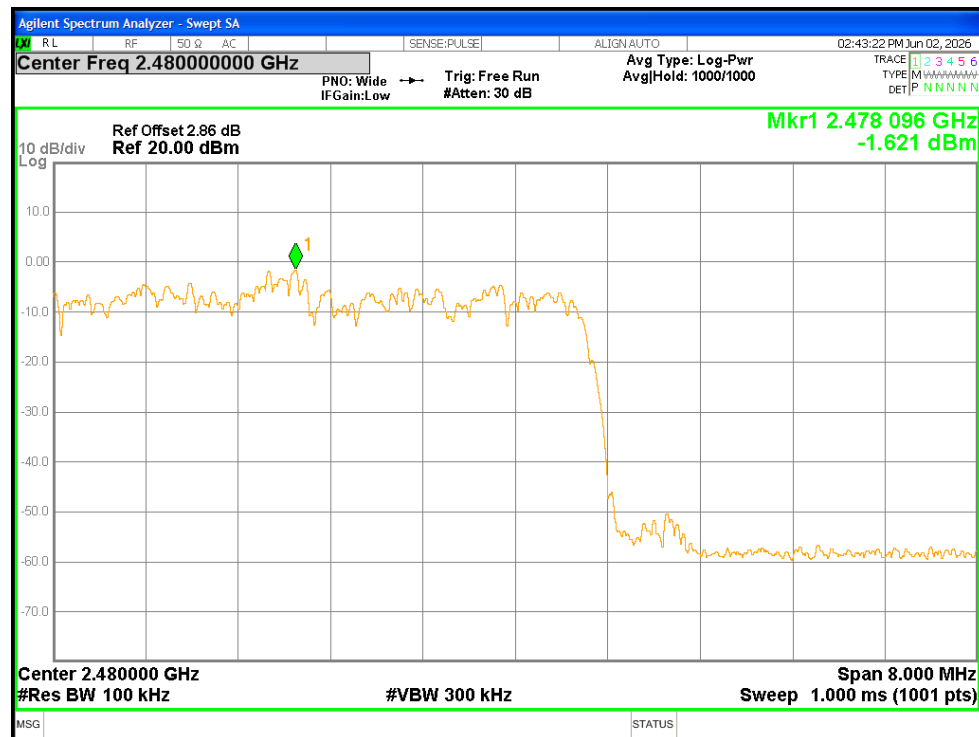
Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Ref



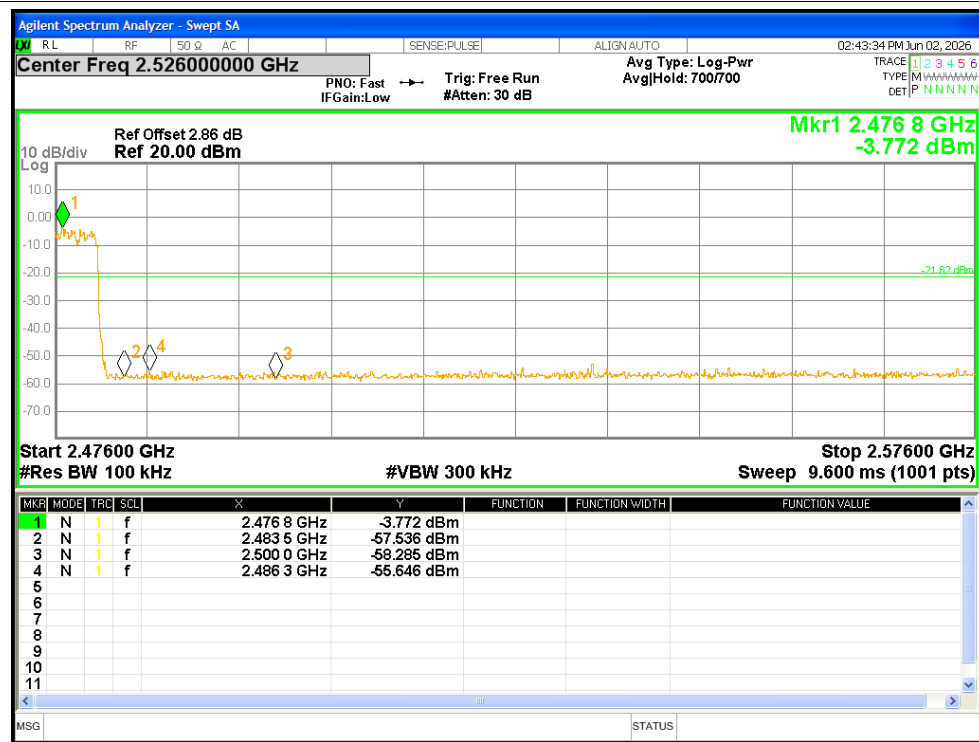
Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Emission



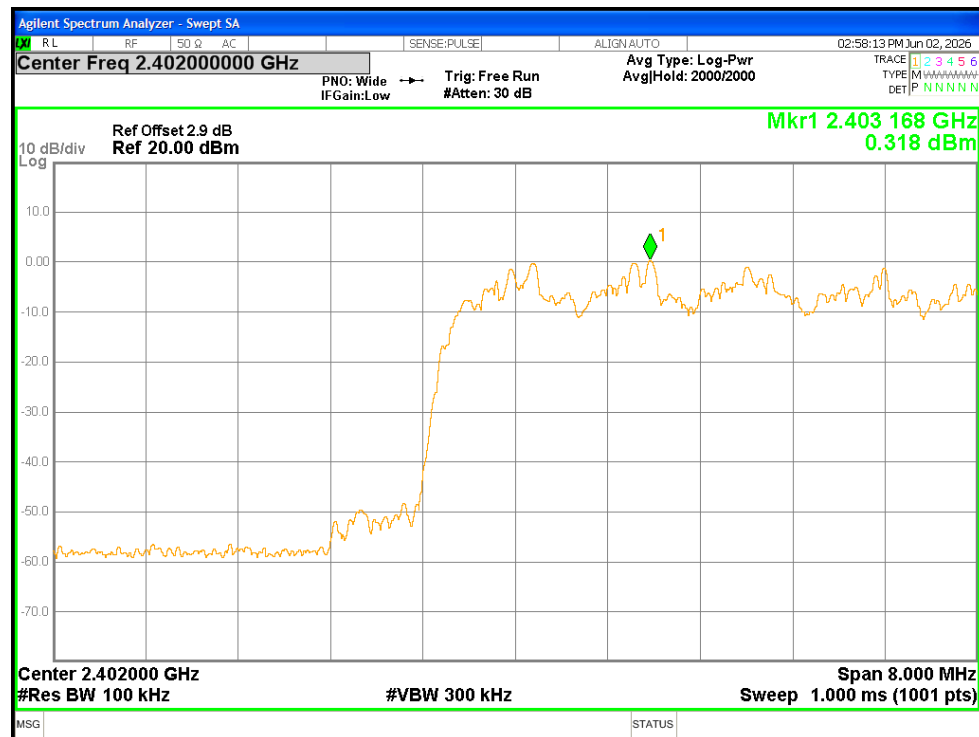
Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Ref



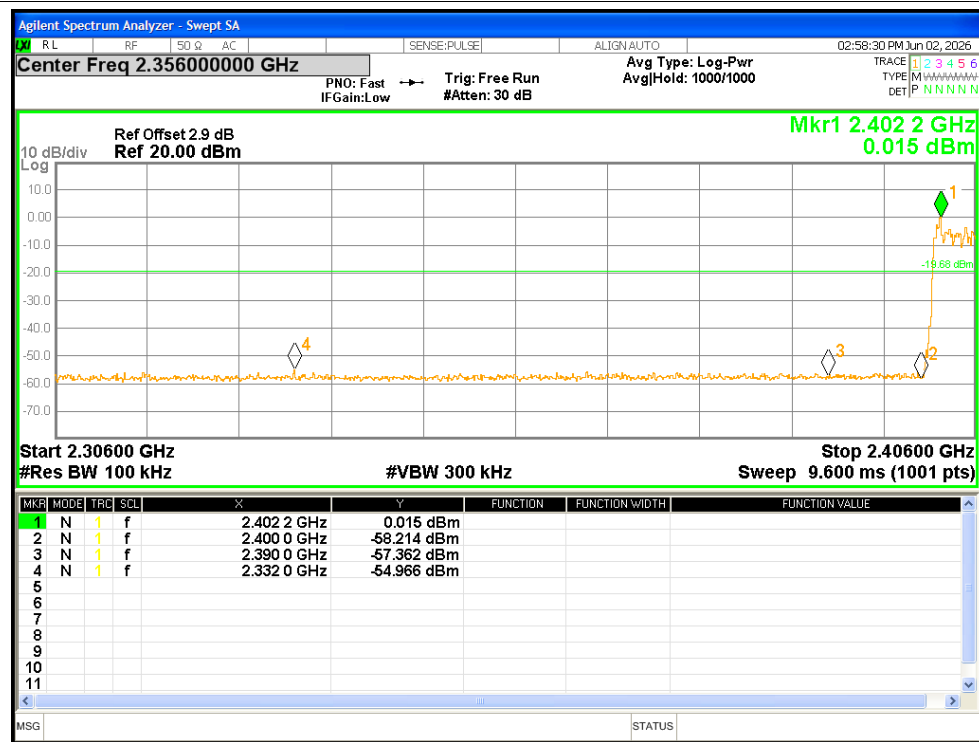
Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Emission



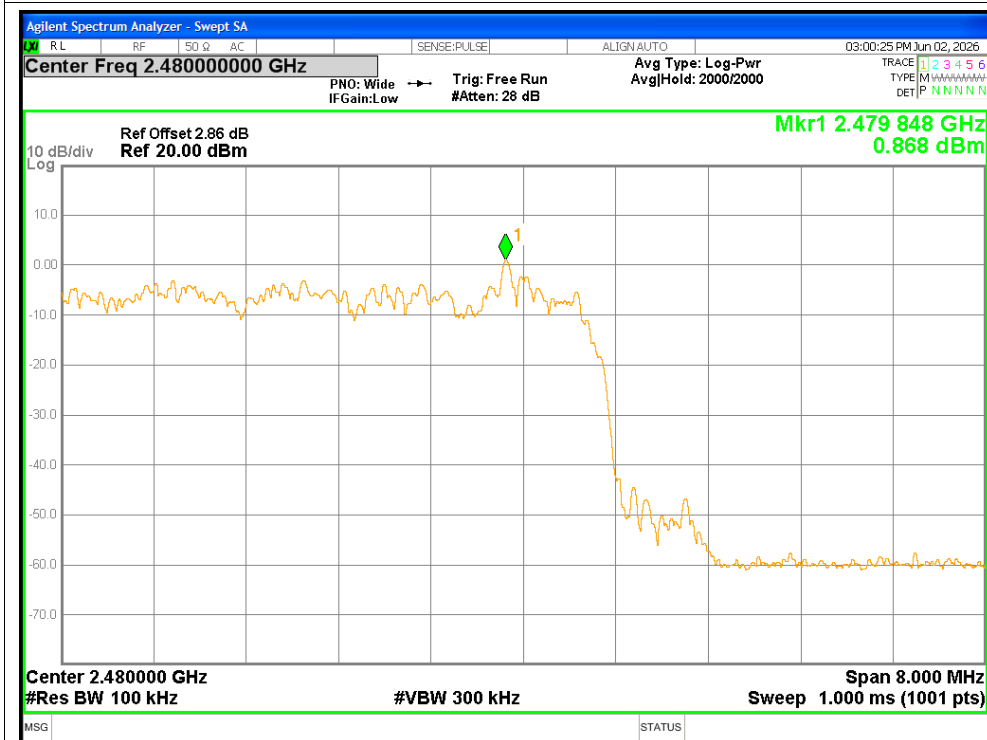
Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Ref



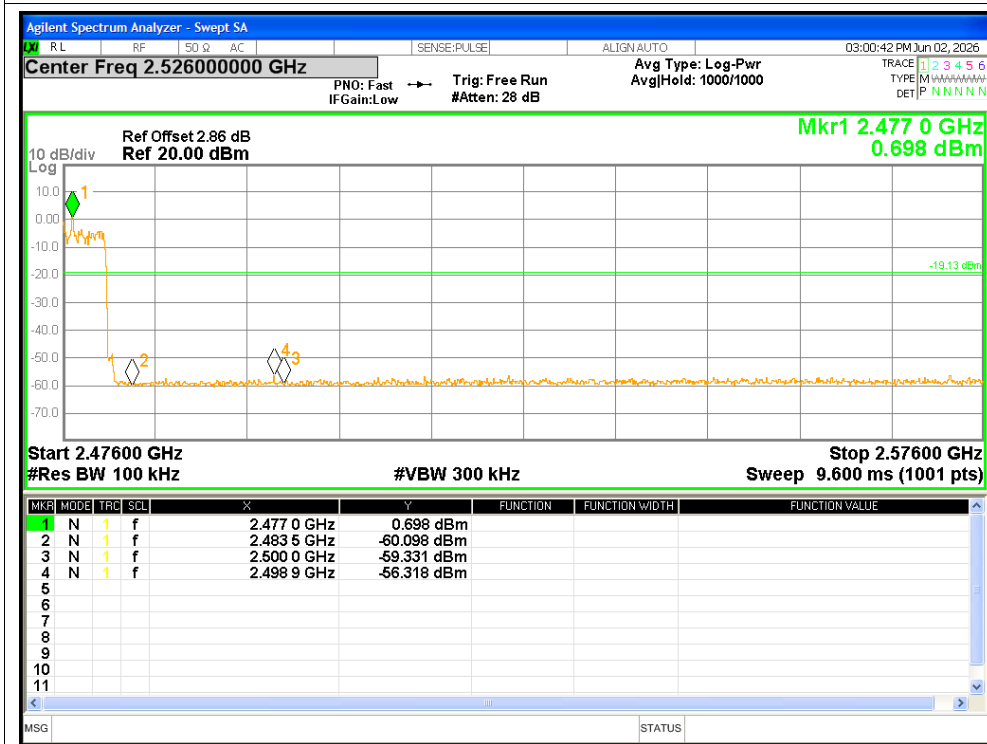
Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Emission



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



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

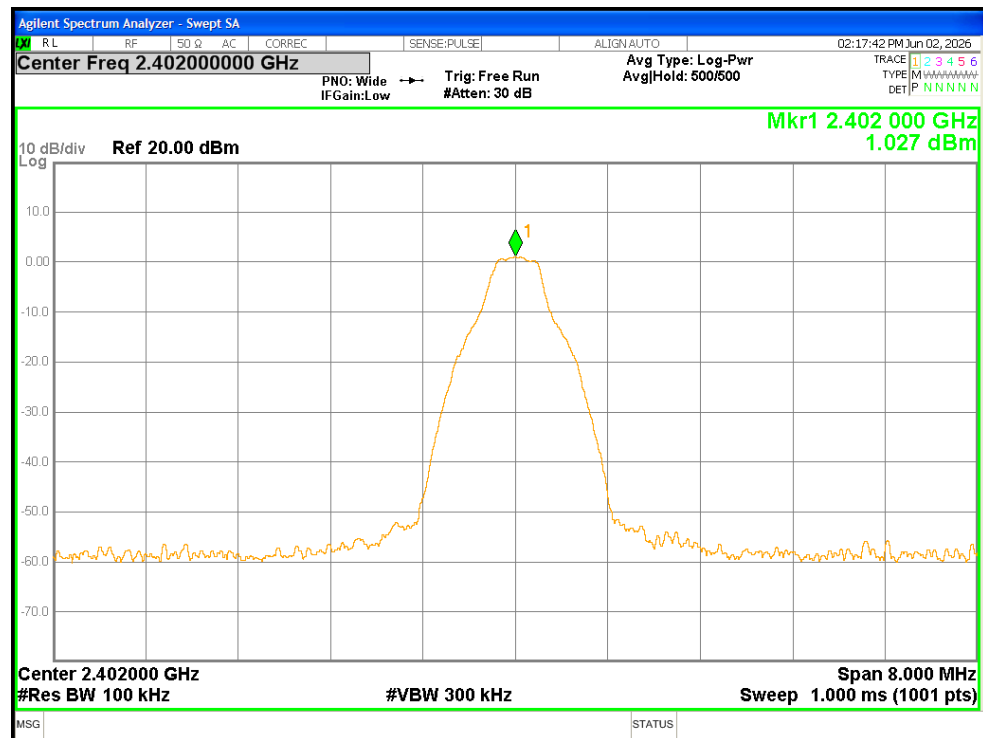


Conducted RF Spurious Emission

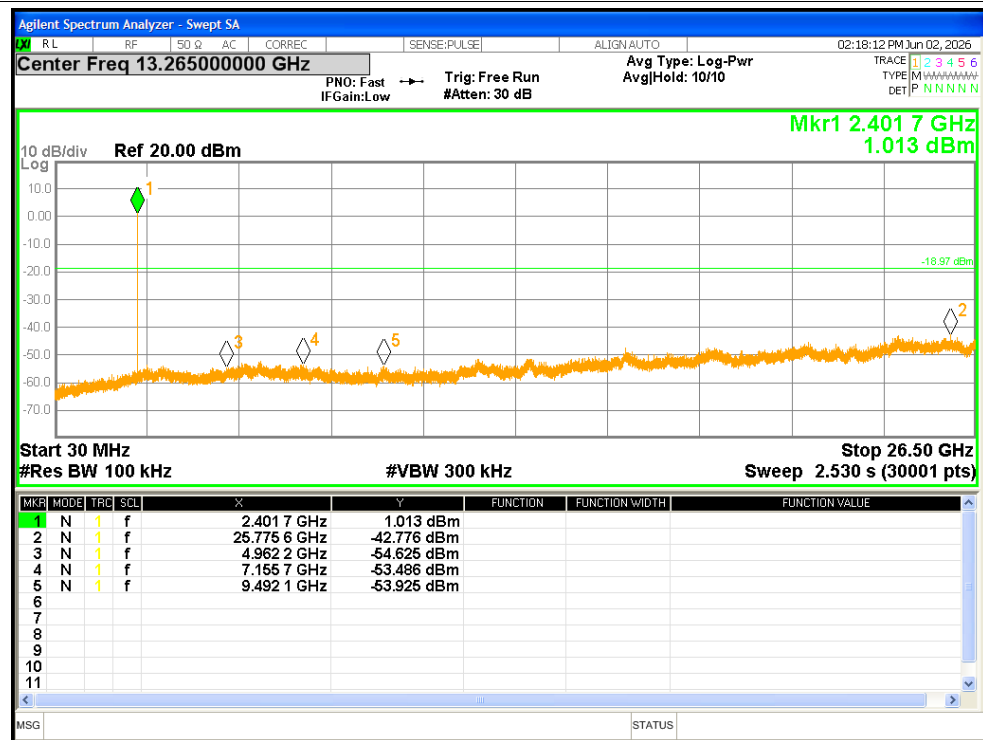
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	-43.8	<=-20	Pass
NVNT	1-DH5	2441	-46.03	<=-20	Pass
NVNT	1-DH5	2480	-44.99	<=-20	Pass
NVNT	2-DH5	2402	-43.64	<=-20	Pass
NVNT	2-DH5	2441	-44.76	<=-20	Pass
NVNT	2-DH5	2480	-44.14	<=-20	Pass
NVNT	3-DH5	2402	-43.57	<=-20	Pass
NVNT	3-DH5	2441	-44.33	<=-20	Pass
NVNT	3-DH5	2480	-44.38	<=-20	Pass

Test Graphs

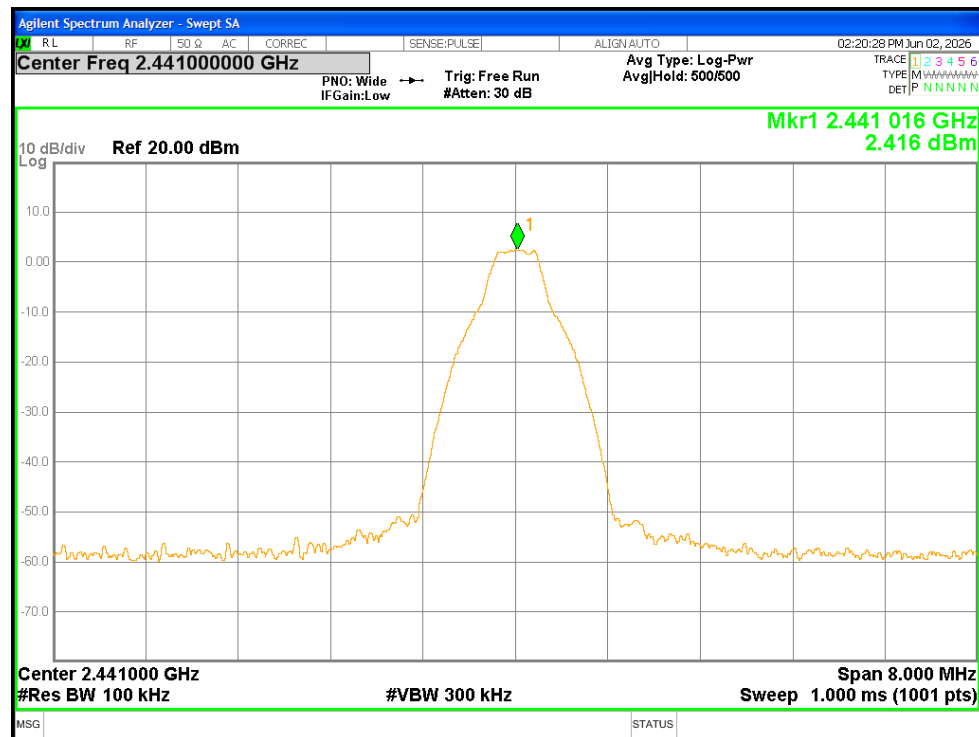
Tx. Spurious NVNT 1-DH5 2402MHz Ref



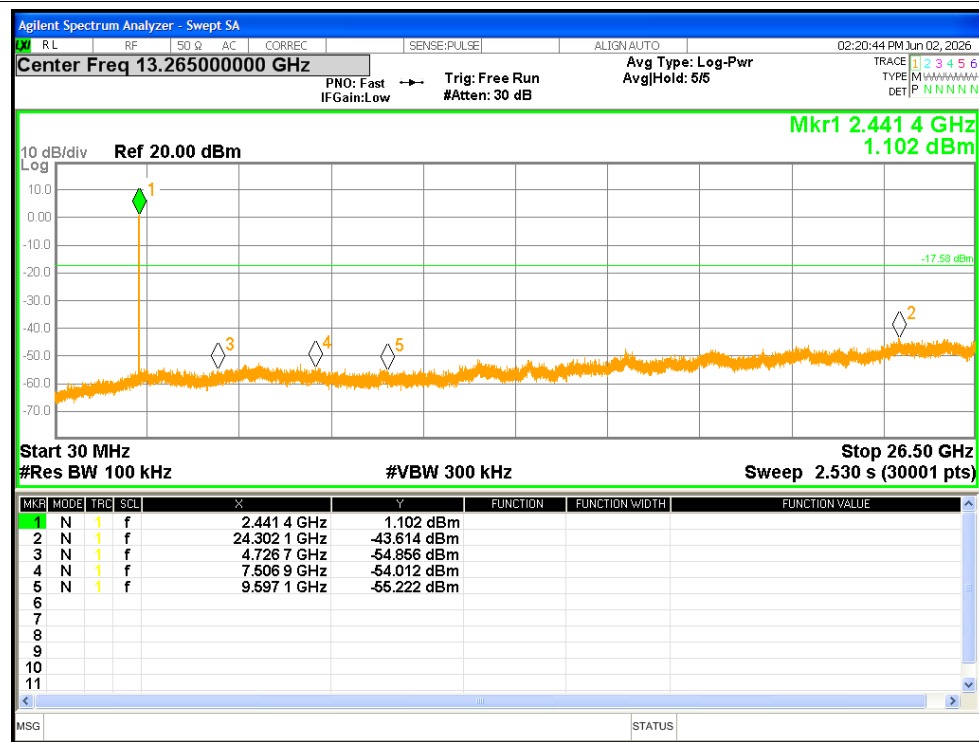
Tx. Spurious NVNT 1-DH5 2402MHz Emission



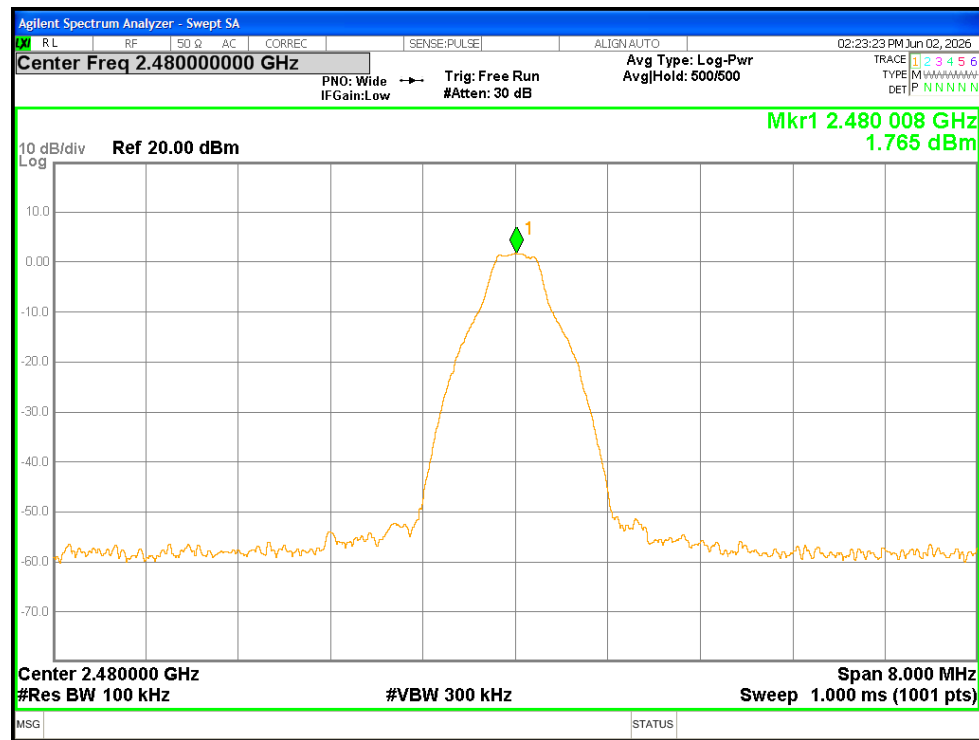
Tx. Spurious NVNT 1-DH5 2441MHz Ref



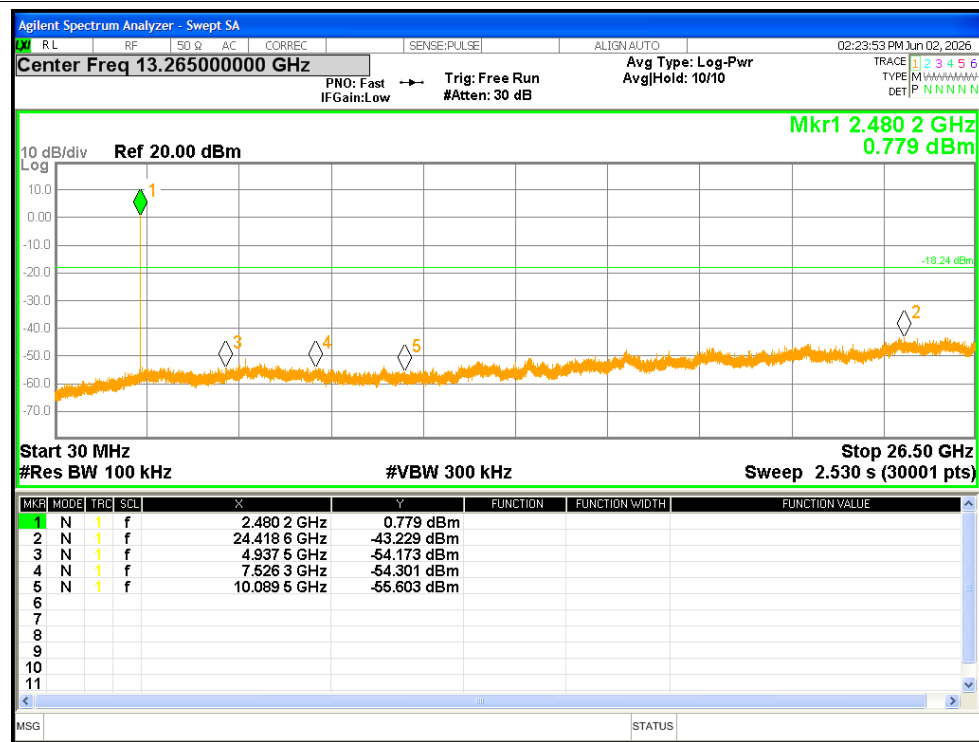
Tx. Spurious NVNT 1-DH5 2441MHz Emission



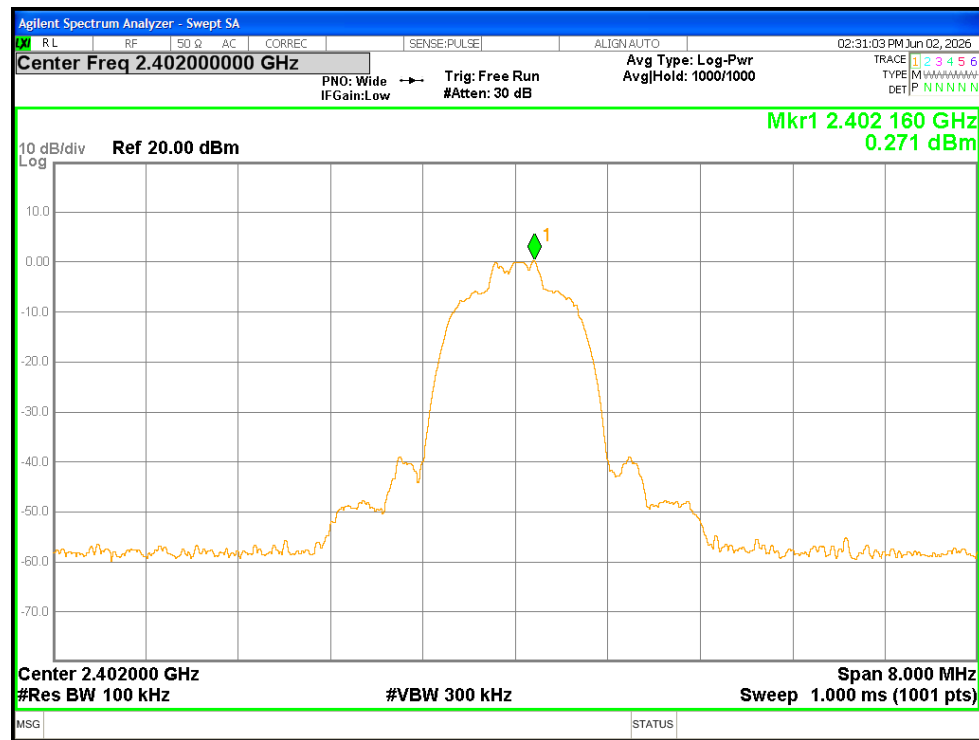
Tx. Spurious NVNT 1-DH5 2480MHz Ref



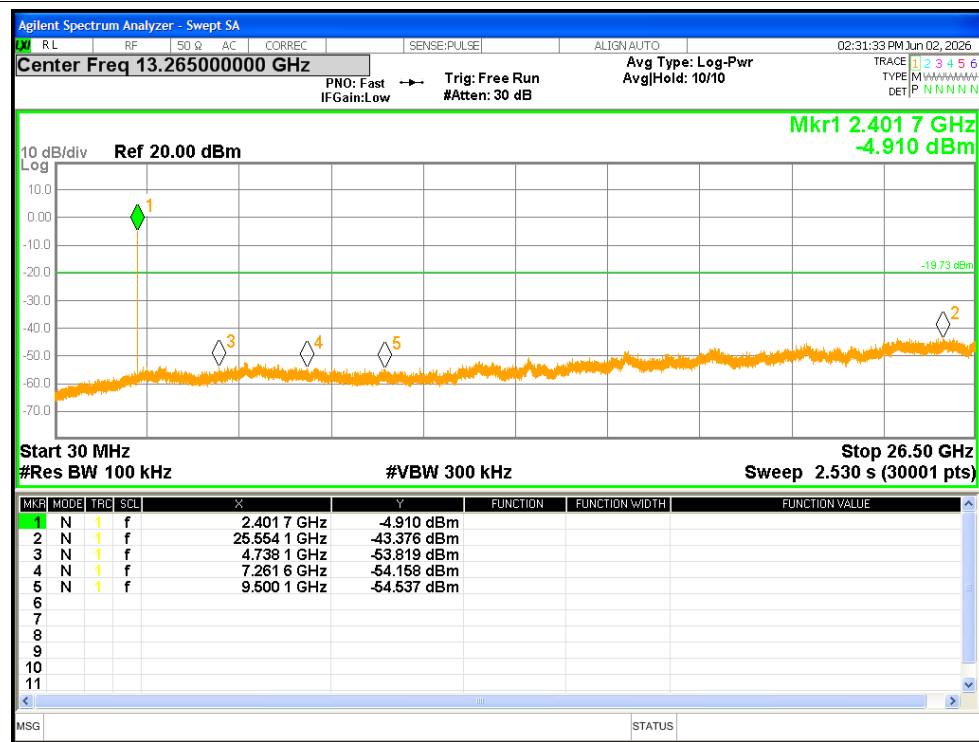
Tx. Spurious NVNT 1-DH5 2480MHz Emission



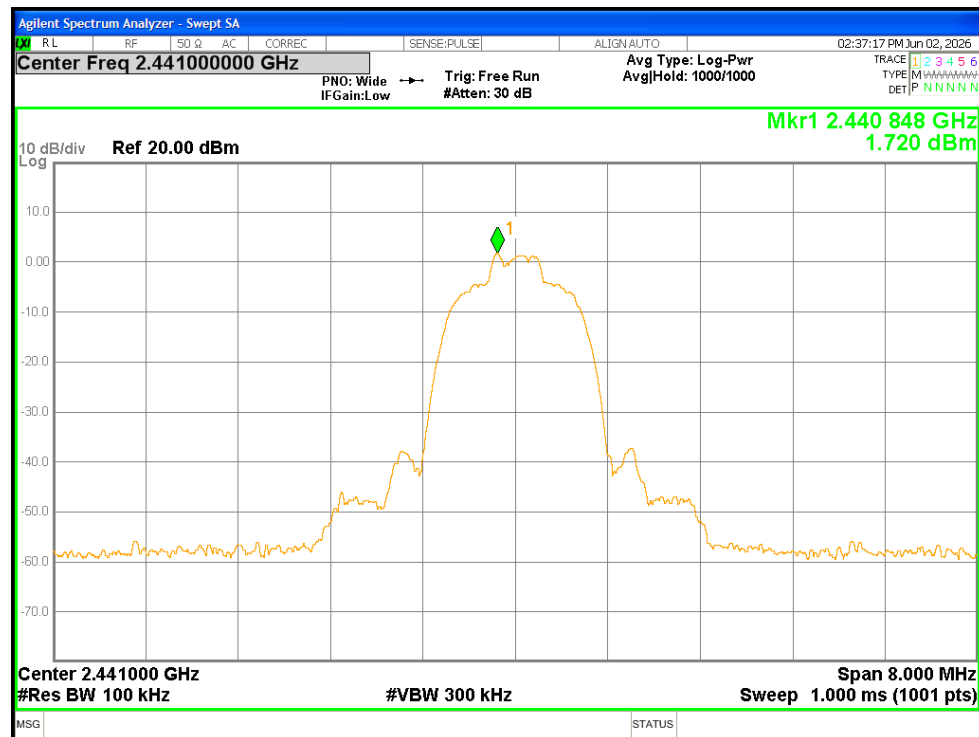
Tx. Spurious NVNT 2-DH5 2402MHz Ref



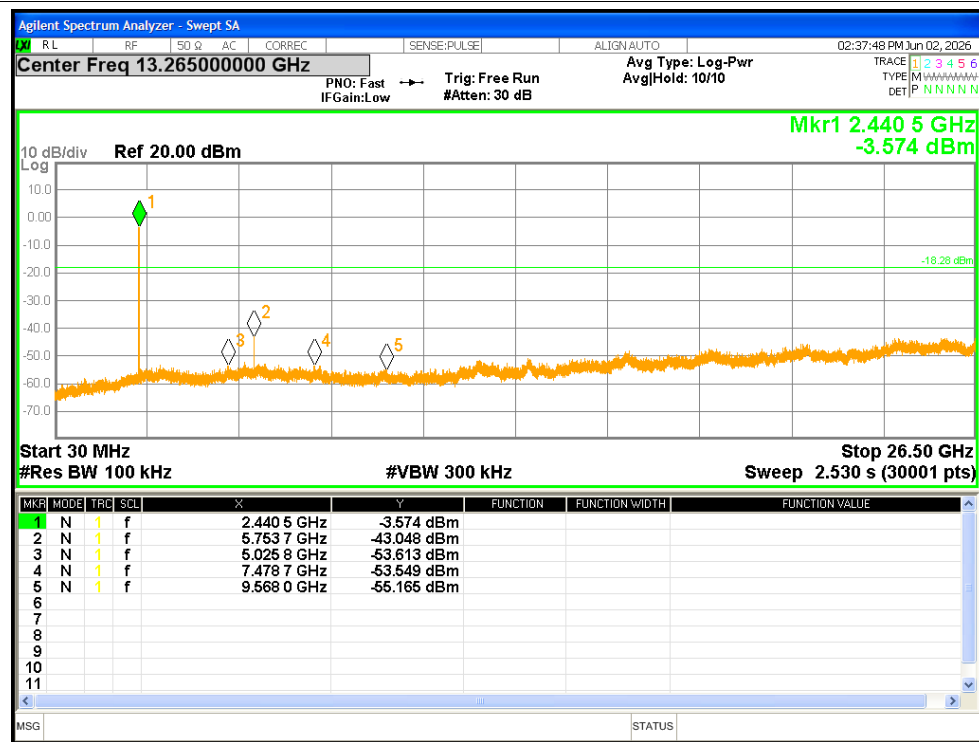
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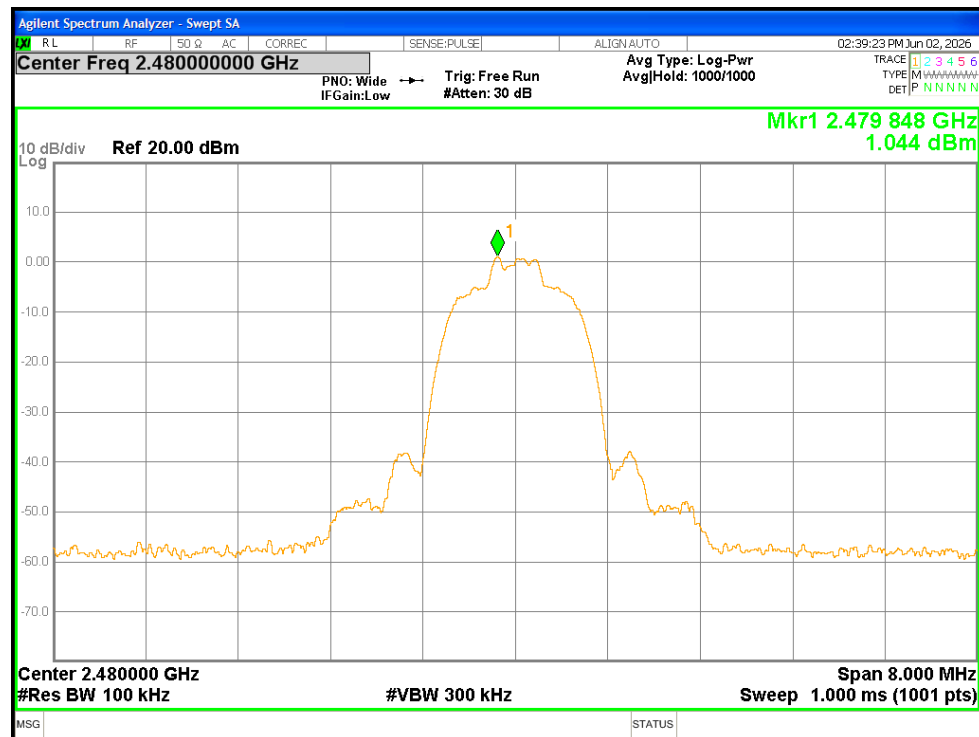
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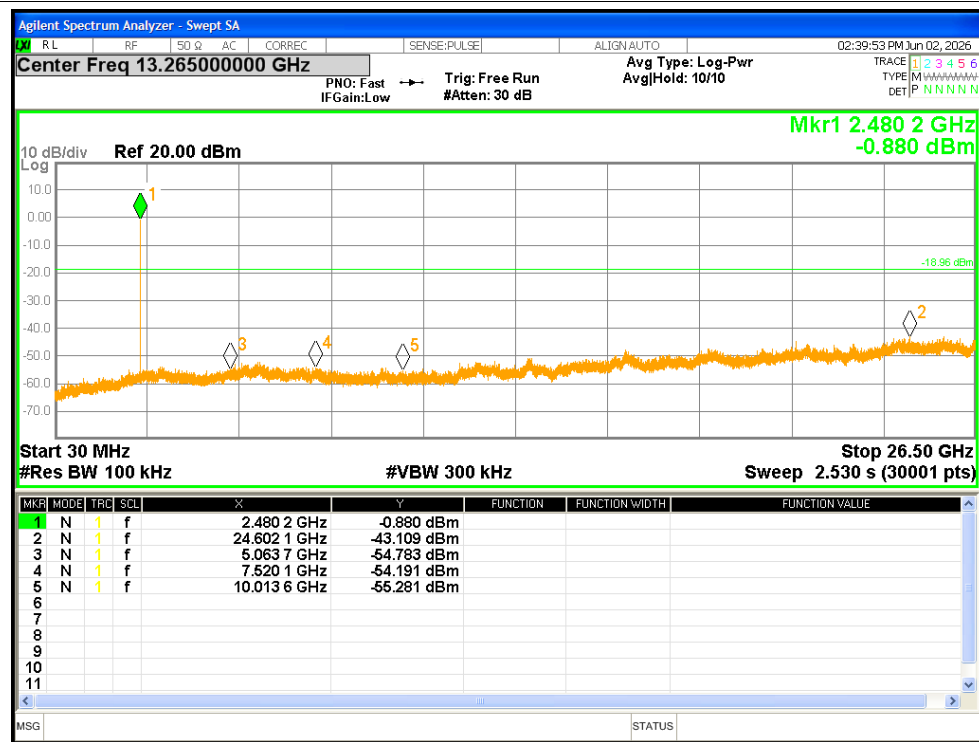
Tx. Spurious NVNT 2-DH5 2441MHz Emission



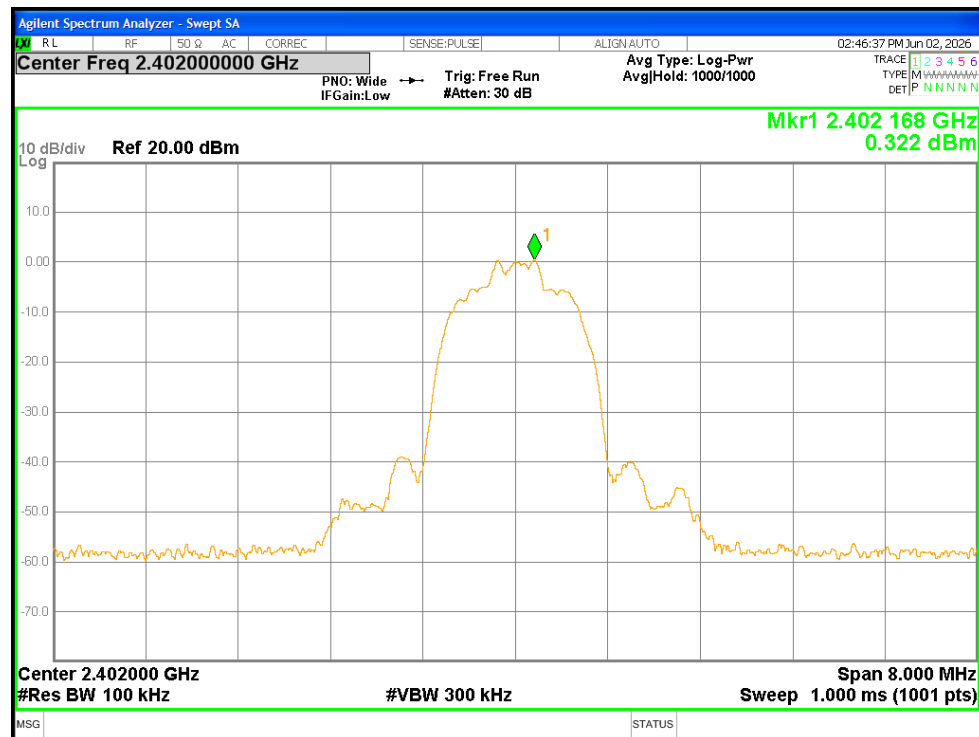
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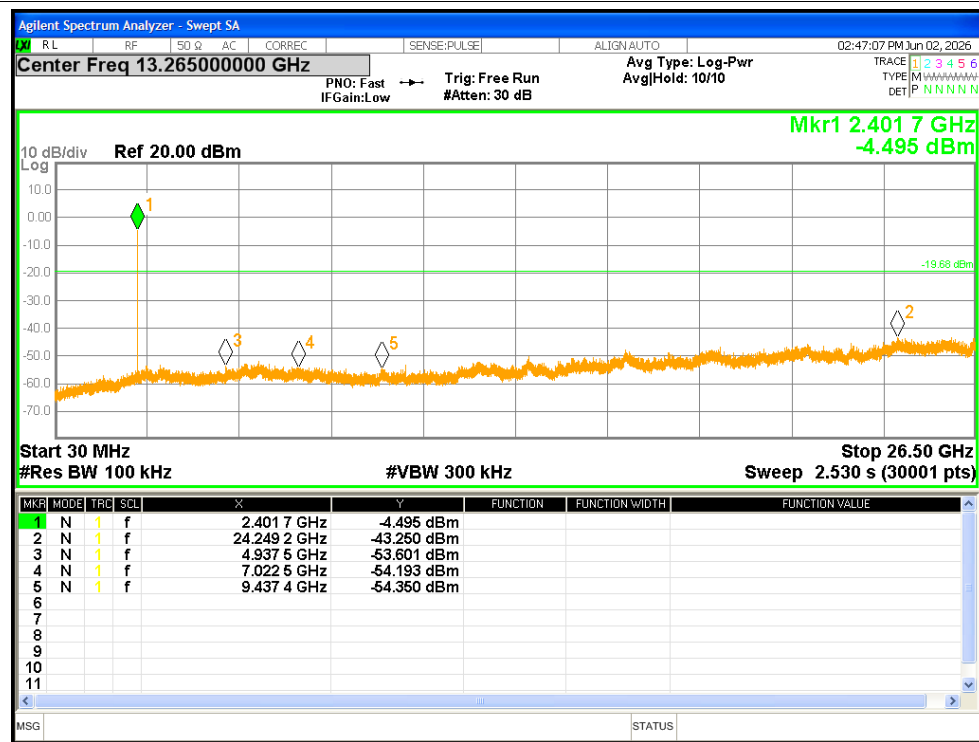
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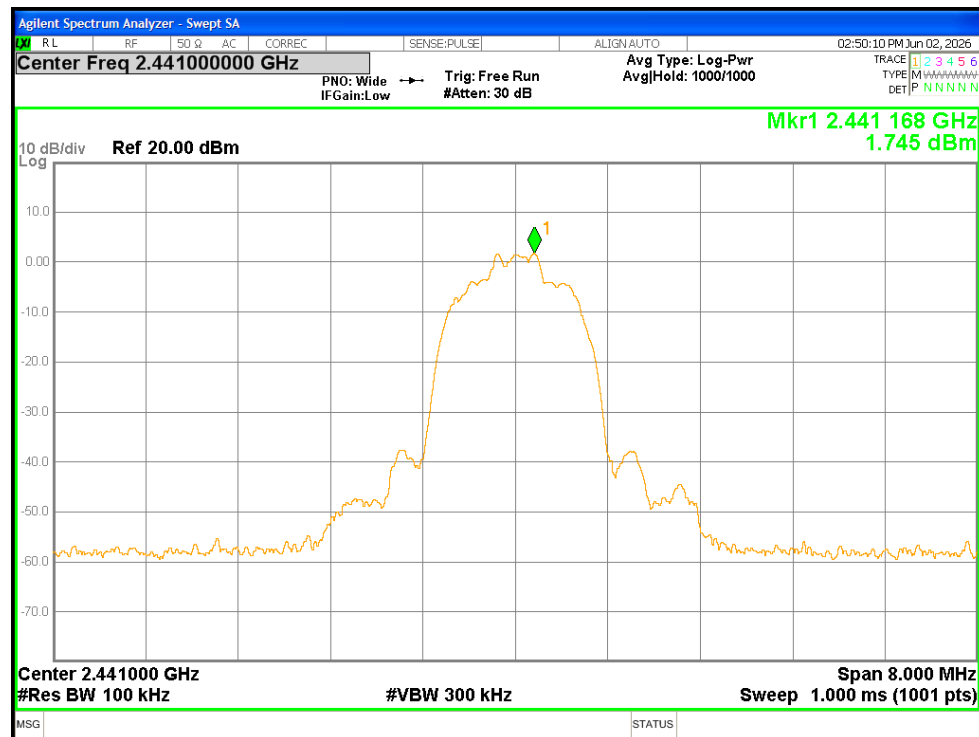
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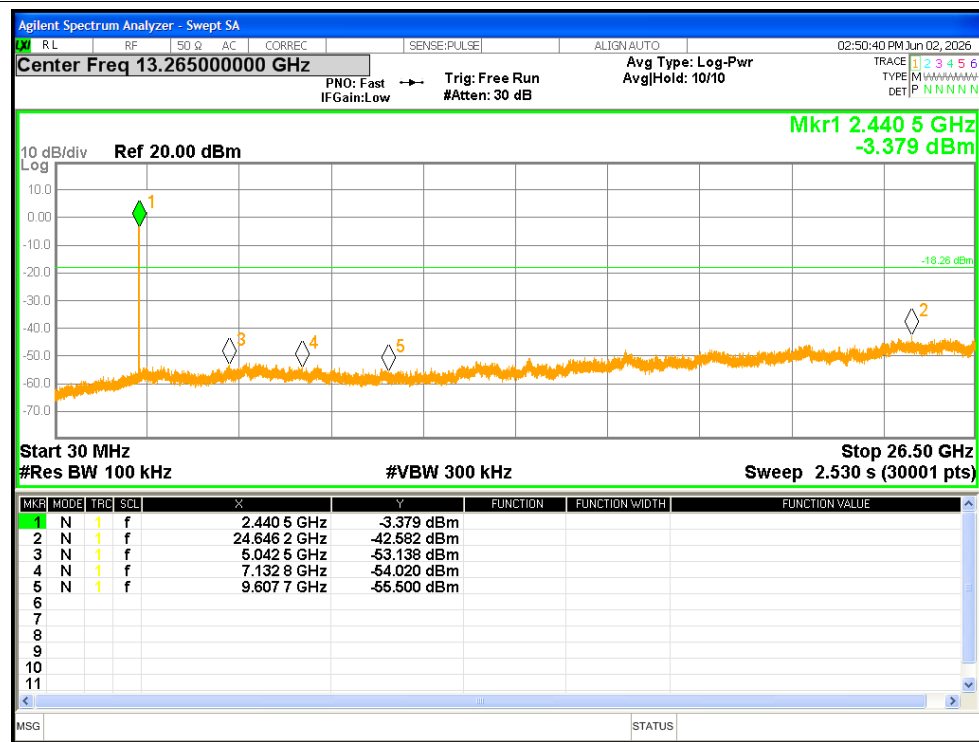
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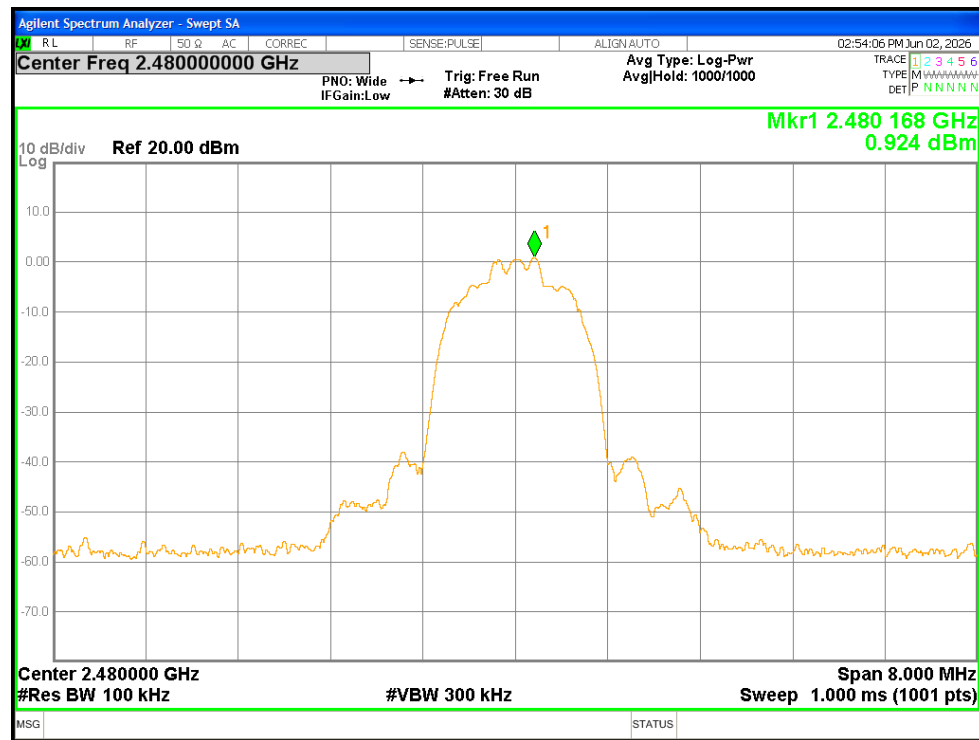
Tx. Spurious NVNT 3-DH5 2441MHz Ref



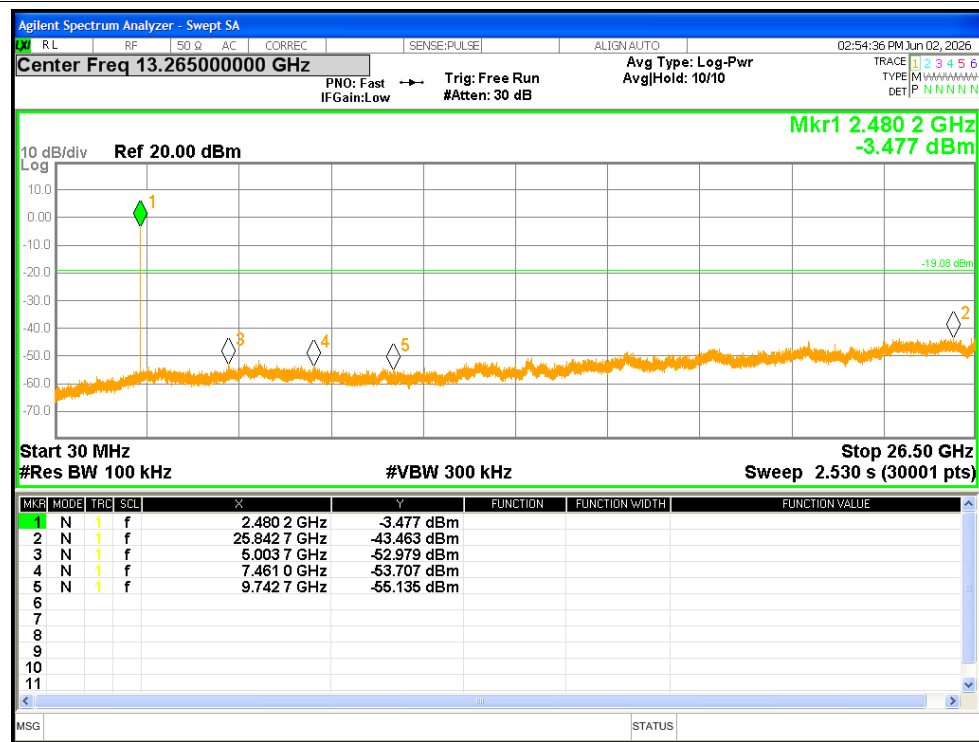
Tx. Spurious NVNT 3-DH5 2441MHz Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ref



Tx. Spurious NVNT 3-DH5 2480MHz Emission

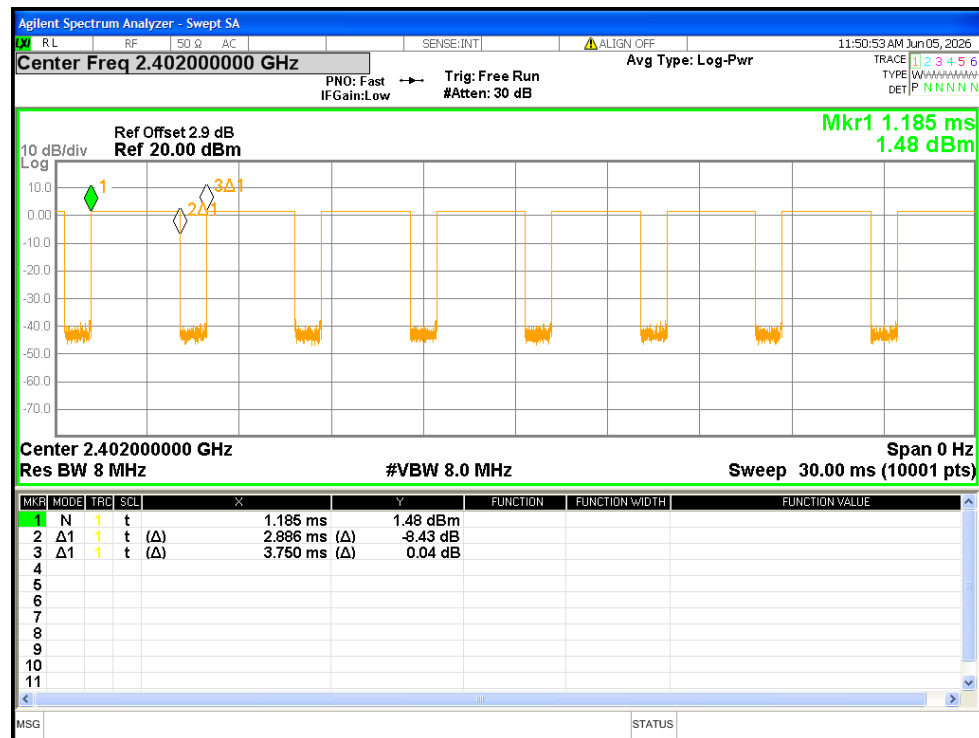


Duty Cycle

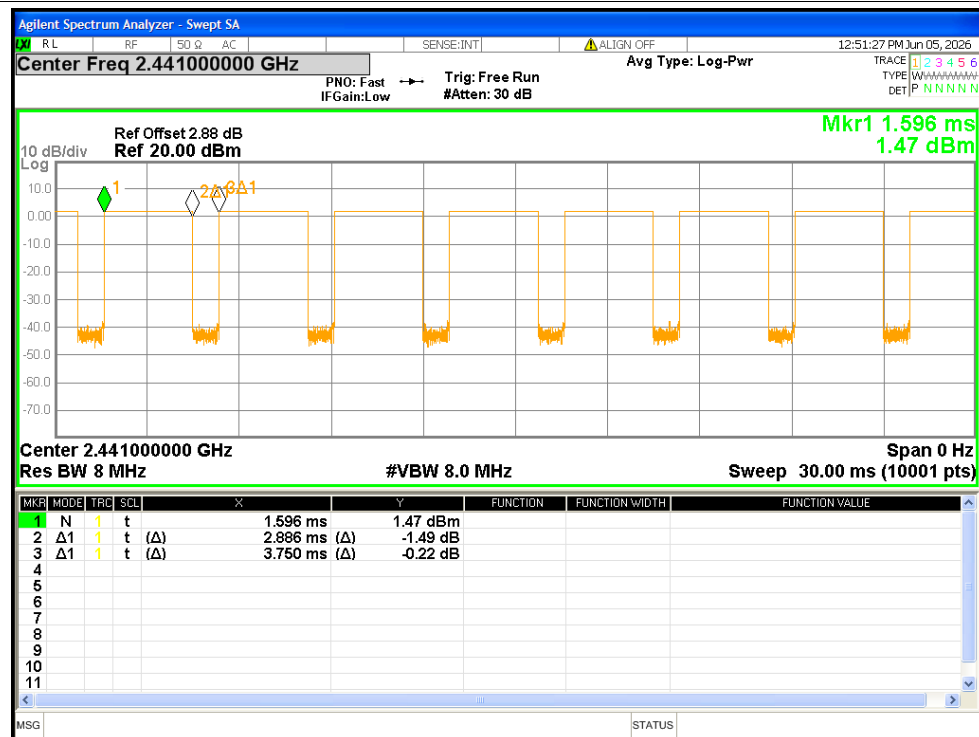
Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
1-DH5	2402	2.886	3.75	76.96	1.14	0.35
1-DH5	2441	2.886	3.75	76.96	1.14	0.35
1-DH5	2480	2.886	3.75	76.96	1.14	0.35
2-DH5	2402	2.892	3.75	77.12	1.13	0.35
2-DH5	2441	2.892	3.75	77.12	1.13	0.35
2-DH5	2480	2.889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

Test Graphs

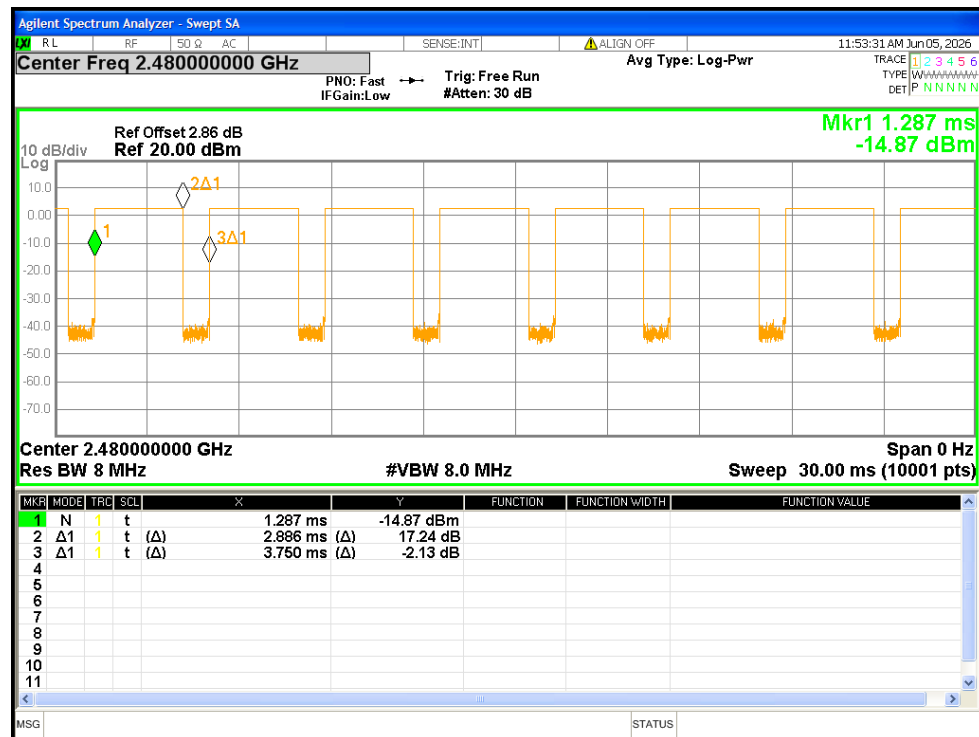
Duty Cycle NVNT 1-DH5 2402MHz



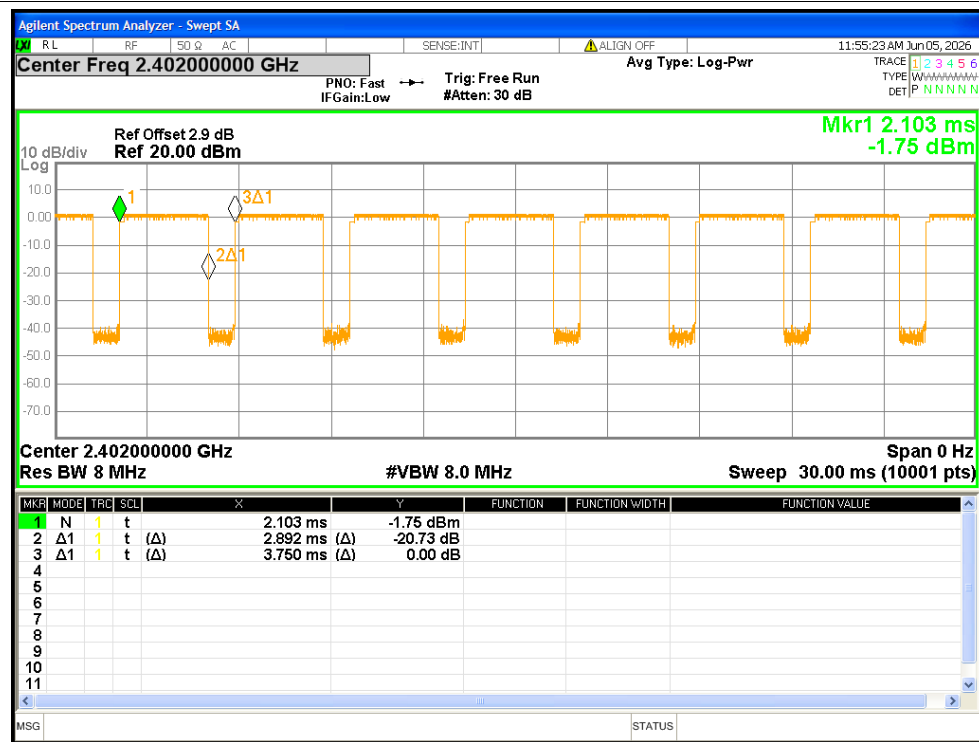
Duty Cycle NVNT 1-DH5 2441MHz



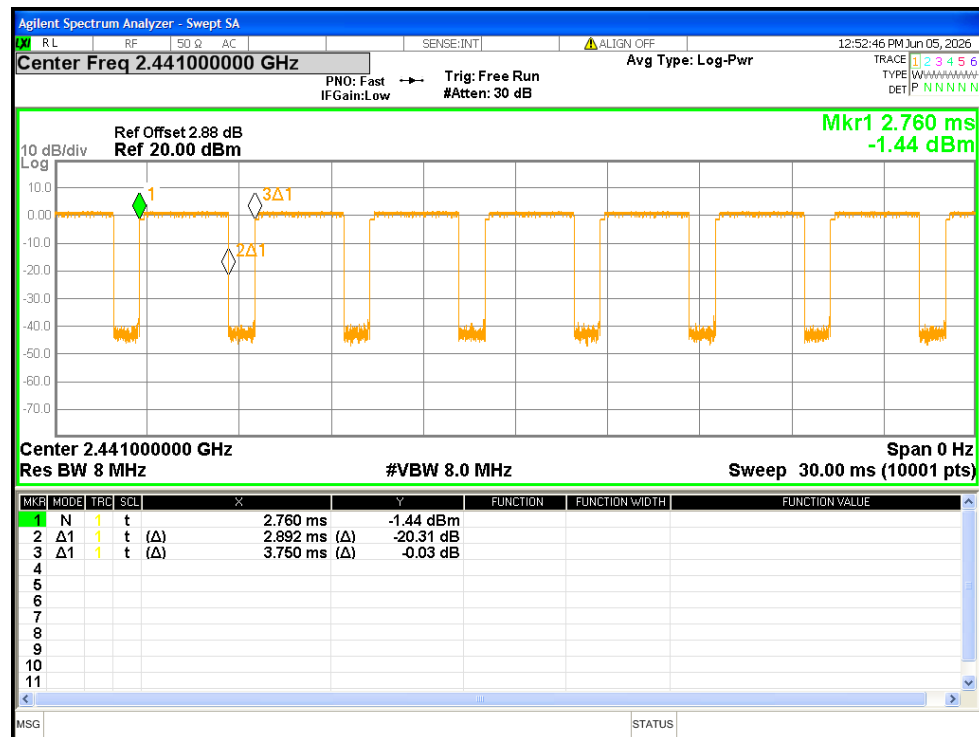
Duty Cycle NVNT 1-DH5 2480MHz



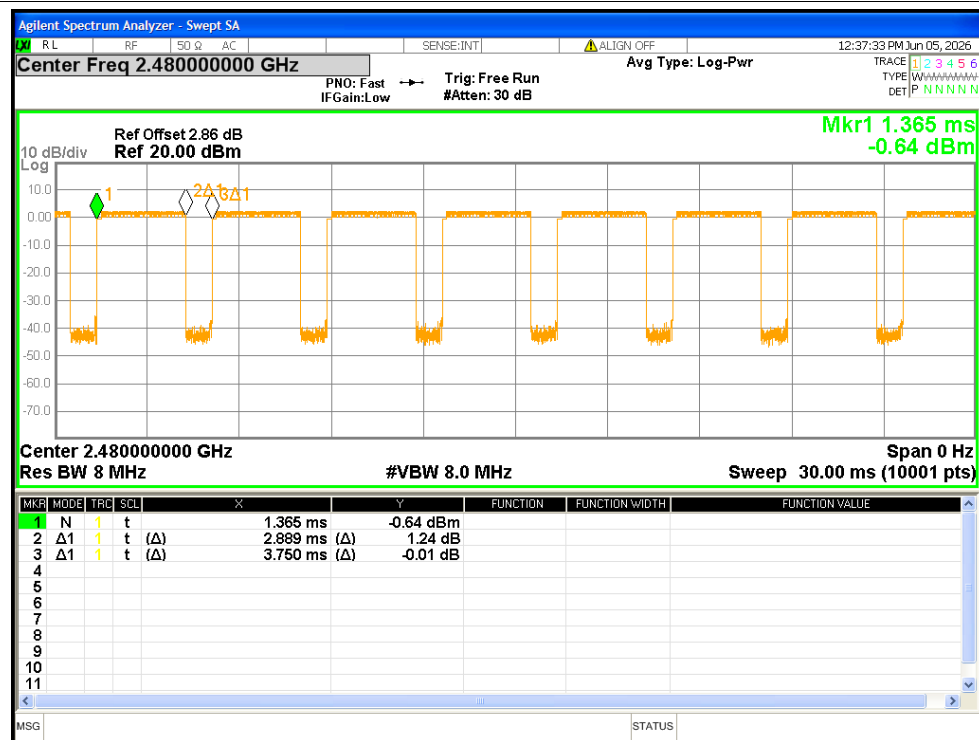
Duty Cycle NVNT 2-DH5 2402MHz



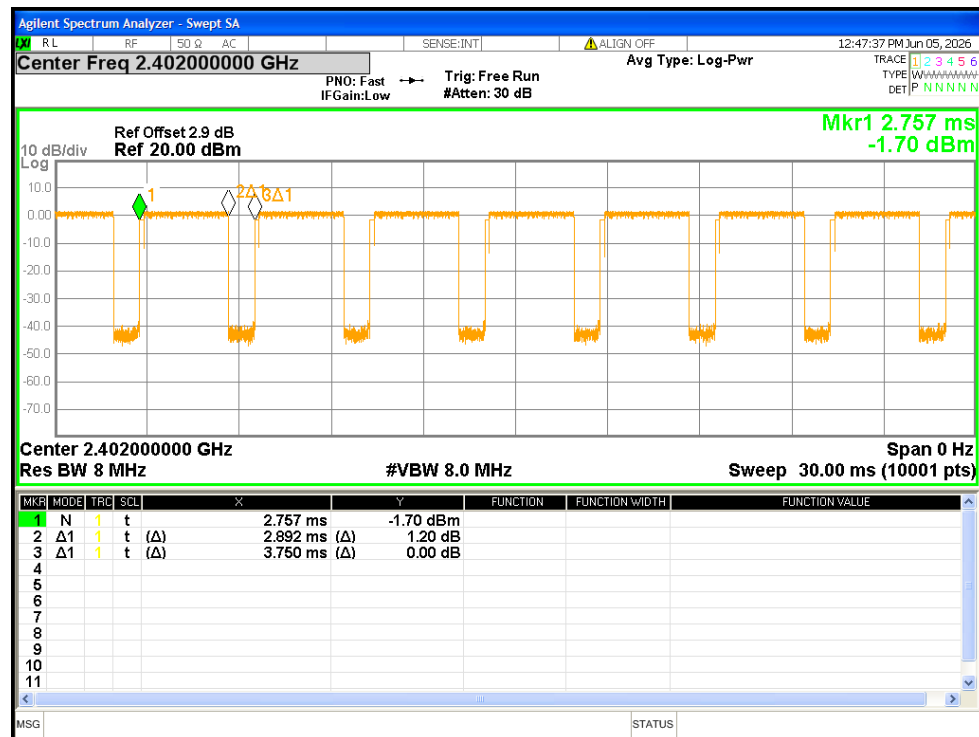
Duty Cycle NVNT 2-DH5 2441MHz



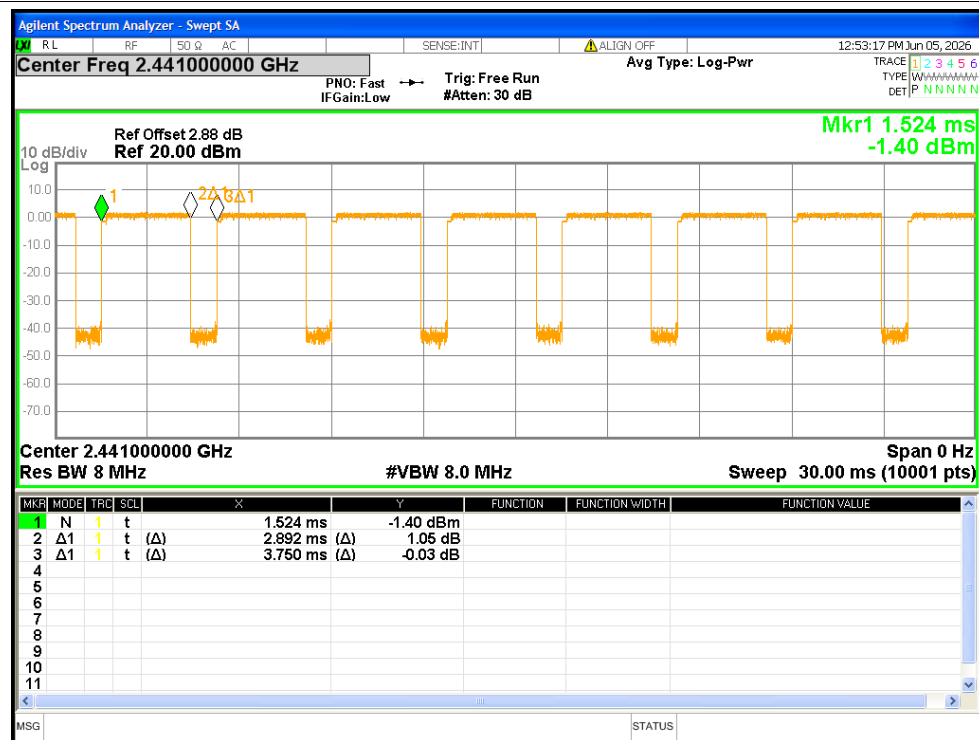
Duty Cycle NVNT 2-DH5 2480MHz



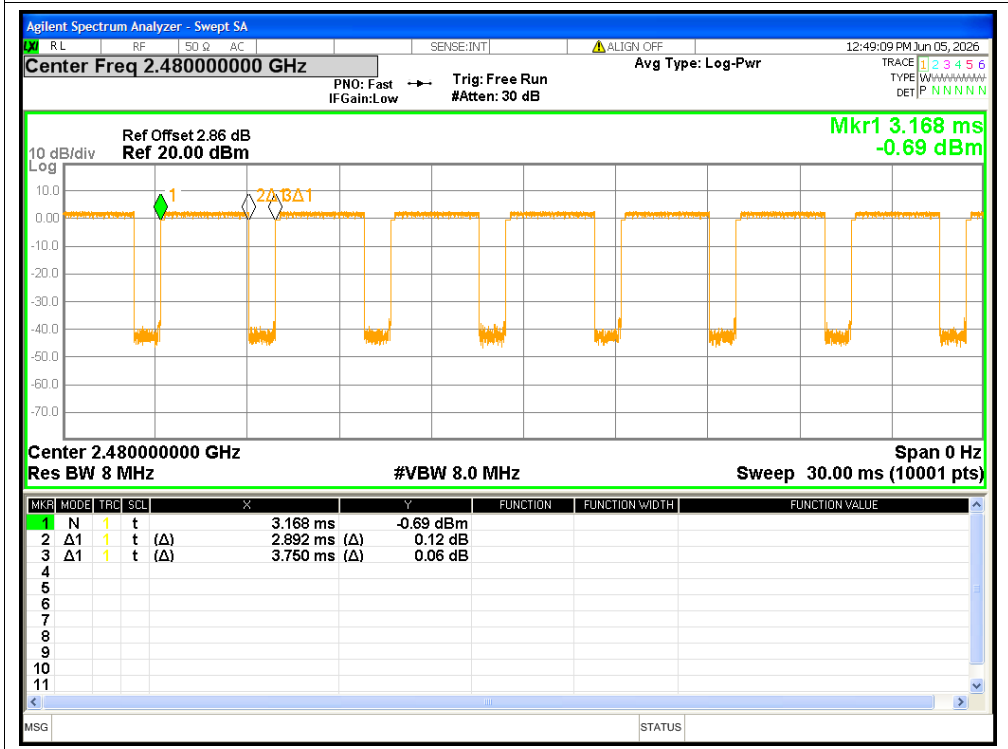
Duty Cycle NVNT 3-DH5 2402MHz



Duty Cycle NVNT 3-DH5 2441MHz



Duty Cycle NVNT 3-DH5 2480MHz

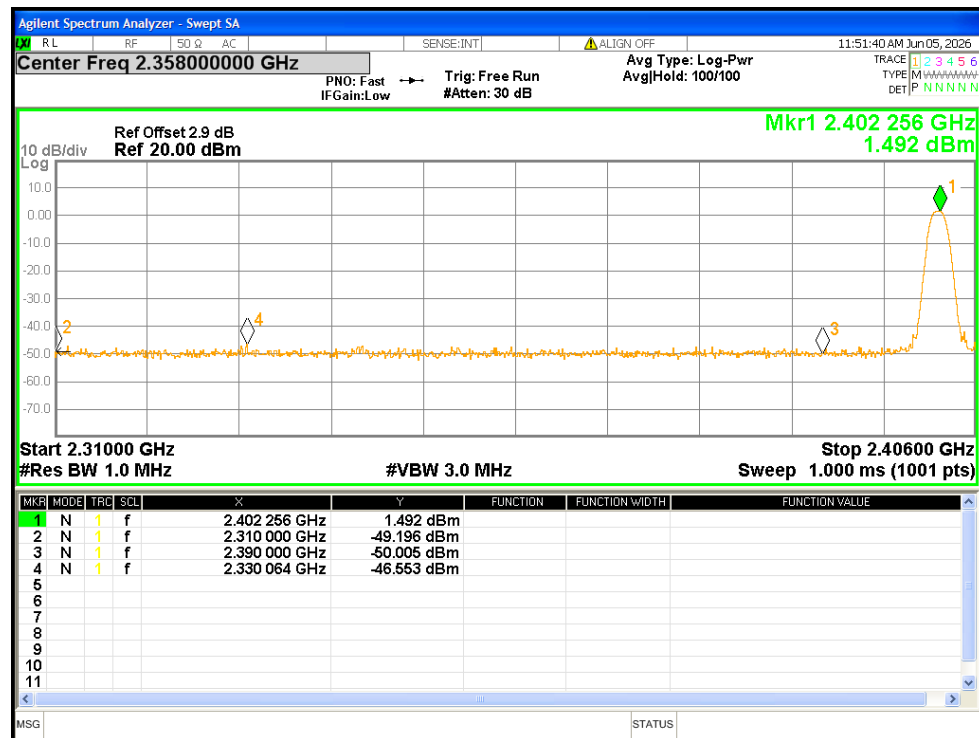


Restrict Band

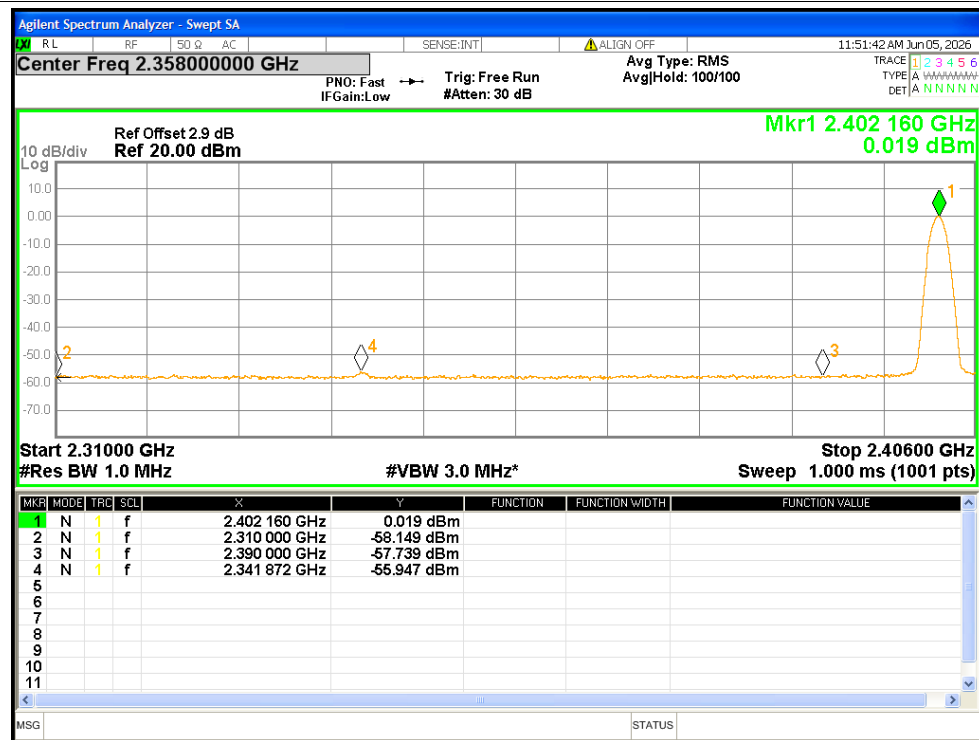
Mode	Frequency (MHz)	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
1-DH5	2402	No-Hopping	2310	-49.19	2	0	48.07	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2310	-58.14	2	1.14	40.26	Average	<=54	Pass
1-DH5	2402	No-Hopping	2330.064	-46.55	2	0	50.71	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2341.872	-55.94	2	1.14	42.46	Average	<=54	Pass
1-DH5	2402	No-Hopping	2390	-48.8	2	0	48.46	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2390	-57.88	2	1.14	40.52	Average	<=54	Pass
1-DH5	2480	No-Hopping	2483.5	-48.48	2	0	48.78	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2483.5	-56.49	2	1.14	41.91	Average	<=54	Pass
1-DH5	2480	No-Hopping	2483.536	-44.07	2	0	53.19	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2483.68	-55.8	2	1.14	42.6	Average	<=54	Pass
1-DH5	2480	No-Hopping	2500	-47.96	2	0	49.3	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2500	-57.33	2	1.14	41.07	Average	<=54	Pass
2-DH5	2402	No-Hopping	2310	-49.75	2	0	47.51	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2310	-57.76	2	1.13	40.63	Average	<=54	Pass
2-DH5	2402	No-Hopping	2386.704	-47.27	2	0	49.99	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2342.256	-56.67	2	1.13	41.72	Average	<=54	Pass
2-DH5	2402	No-Hopping	2390	-49.83	2	0	47.43	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2390	-57.79	2	1.13	40.6	Average	<=54	Pass
2-DH5	2480	No-Hopping	2483.5	-46.82	2	0	50.44	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2483.5	-55.2	2	1.13	43.19	Average	<=54	Pass
2-DH5	2480	No-Hopping	2487.784	-40.54	2	0	56.72	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2484.088	-54.4	2	1.13	43.99	Average	<=54	Pass
2-DH5	2480	No-Hopping	2500	-47.76	2	0	49.5	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2500	-56.6	2	1.13	41.79	Average	<=54	Pass
3-DH5	2402	No-Hopping	2310	-50.35	2	0	46.91	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2310	-57.81	2	1.13	40.58	Average	<=54	Pass
3-DH5	2402	No-Hopping	2387.856	-46.94	2	0	50.32	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2387.856	-56.84	2	1.13	41.55	Average	<=54	Pass
3-DH5	2402	No-Hopping	2390	-50.24	2	0	47.02	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2390	-57.62	2	1.13	40.77	Average	<=54	Pass
3-DH5	2480	No-Hopping	2483.5	-46.05	2	0	51.21	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2483.5	-54.75	2	1.13	43.64	Average	<=54	Pass
3-DH5	2480	No-Hopping	2483.824	-41.61	2	0	55.65	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2483.92	-53.67	2	1.13	44.72	Average	<=54	Pass
3-DH5	2480	No-Hopping	2500	-49.02	2	0	48.24	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2500	-56.96	2	1.13	41.43	Average	<=54	Pass

Test Graphs

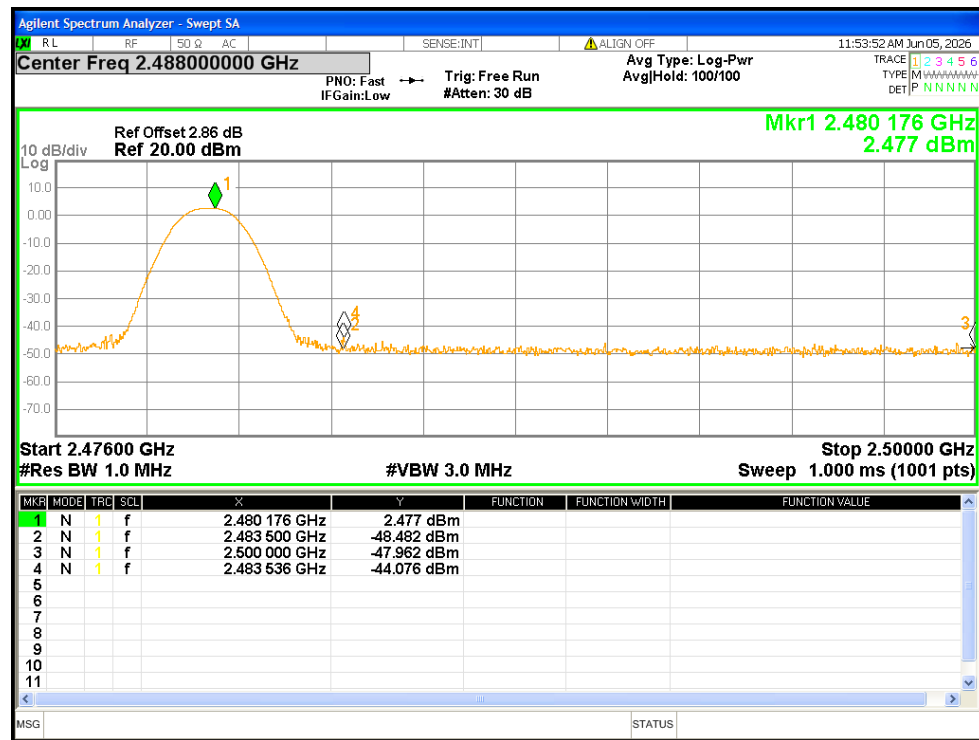
Restrict Band NVNT 1-DH5 2402MHz No-Hopping Peak



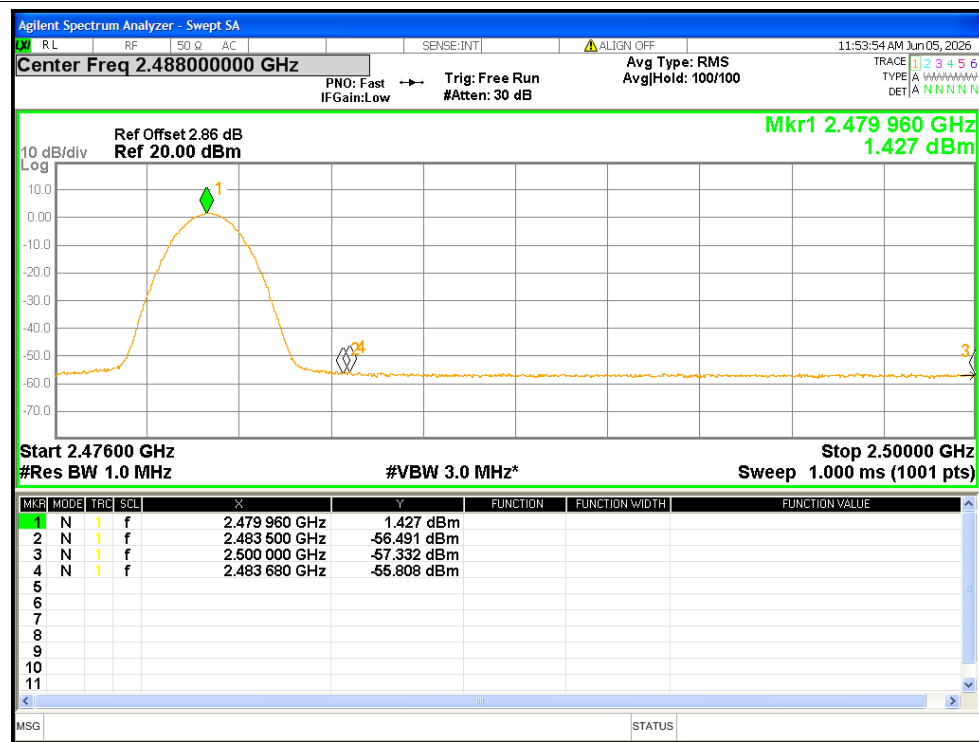
Restrict Band NVNT 1-DH5 2402MHz No-Hopping Average



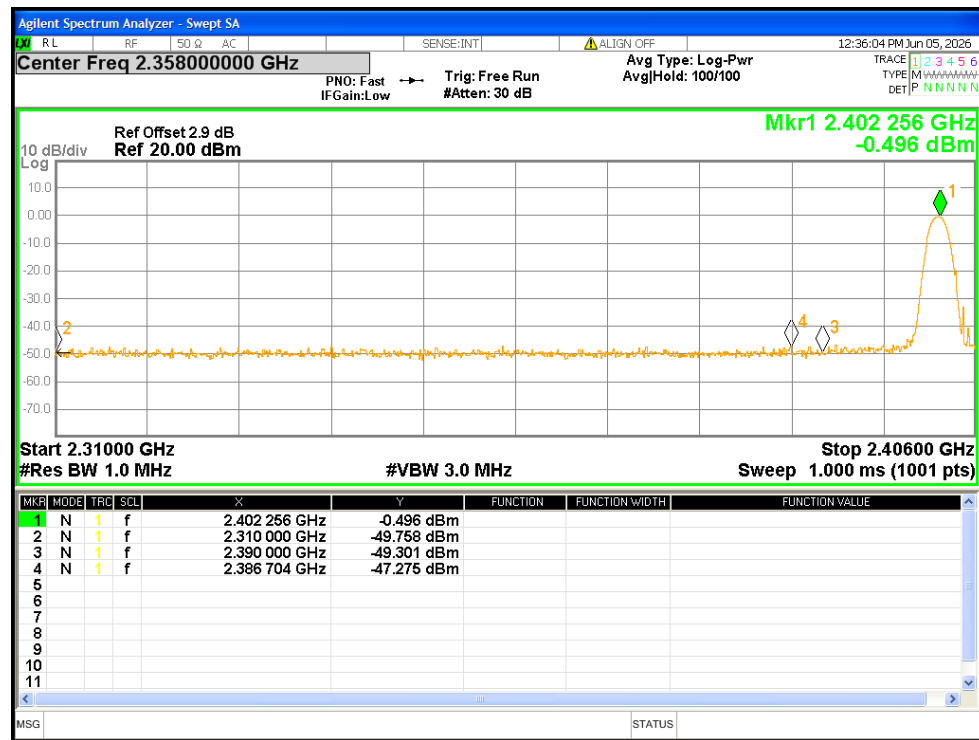
Restrict Band NVNT 1-DH5 2480MHz No-Hopping Peak



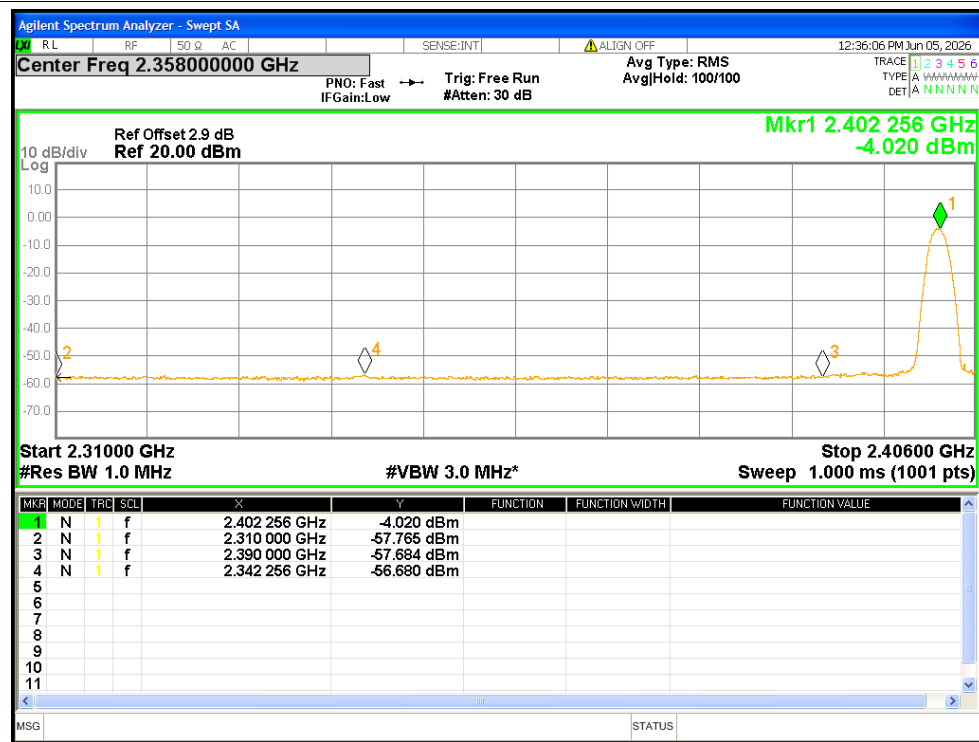
Restrict Band NVNT 1-DH5 2480MHz No-Hopping Average



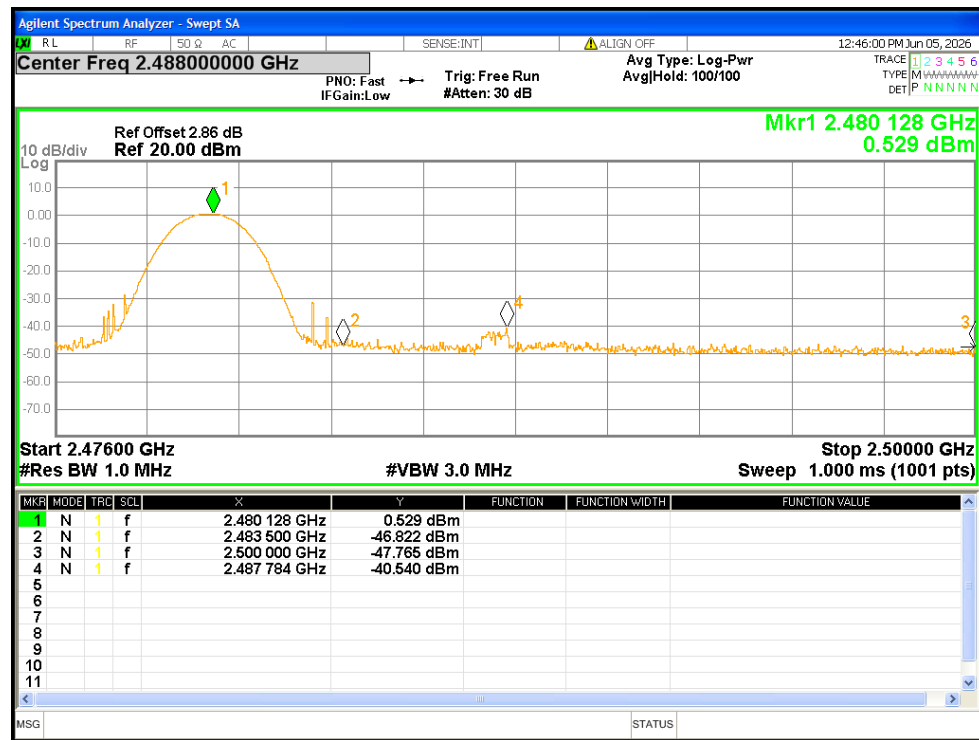
Restrict Band NVNT 2-DH5 2402MHz No-Hopping Peak



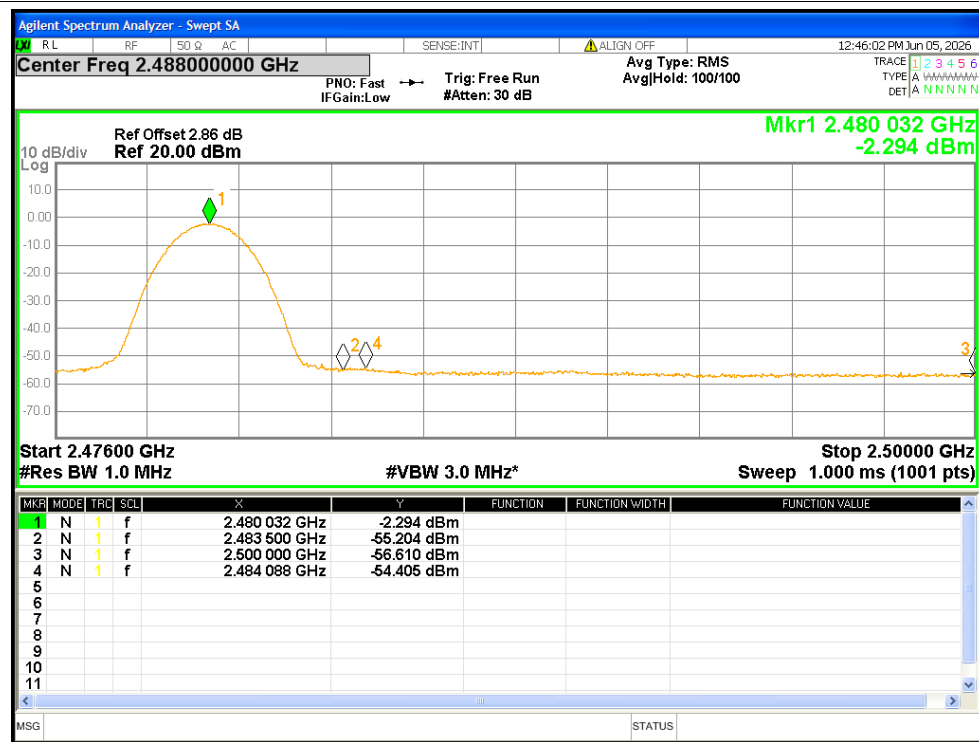
Restrict Band NVNT 2-DH5 2402MHz No-Hopping Average



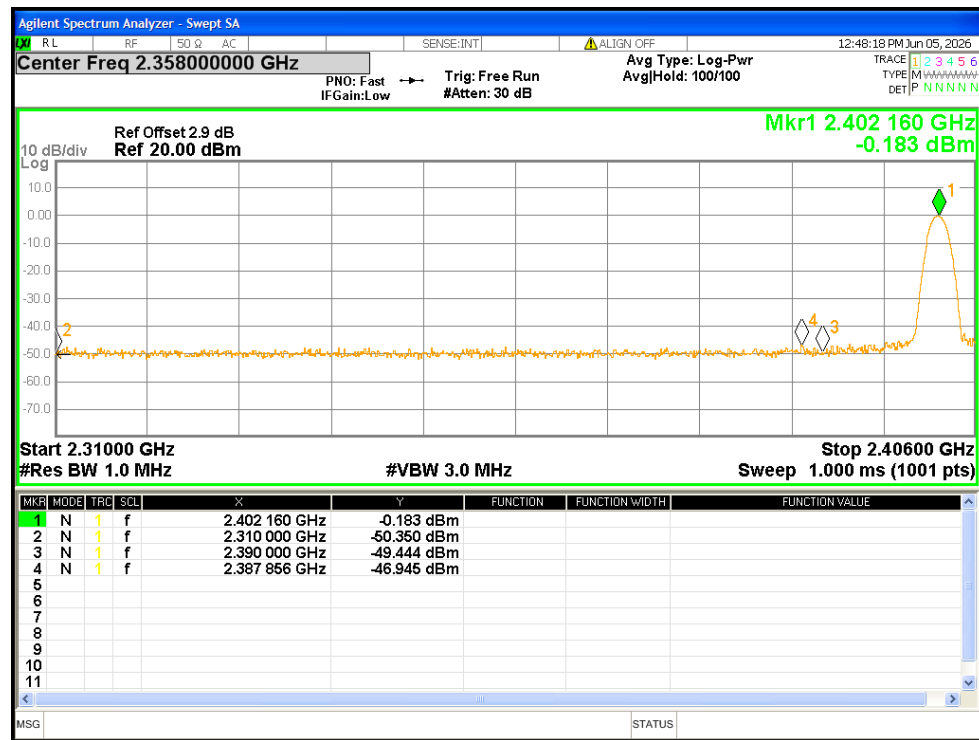
Restrict Band NVNT 2-DH5 2480MHz No-Hopping Peak



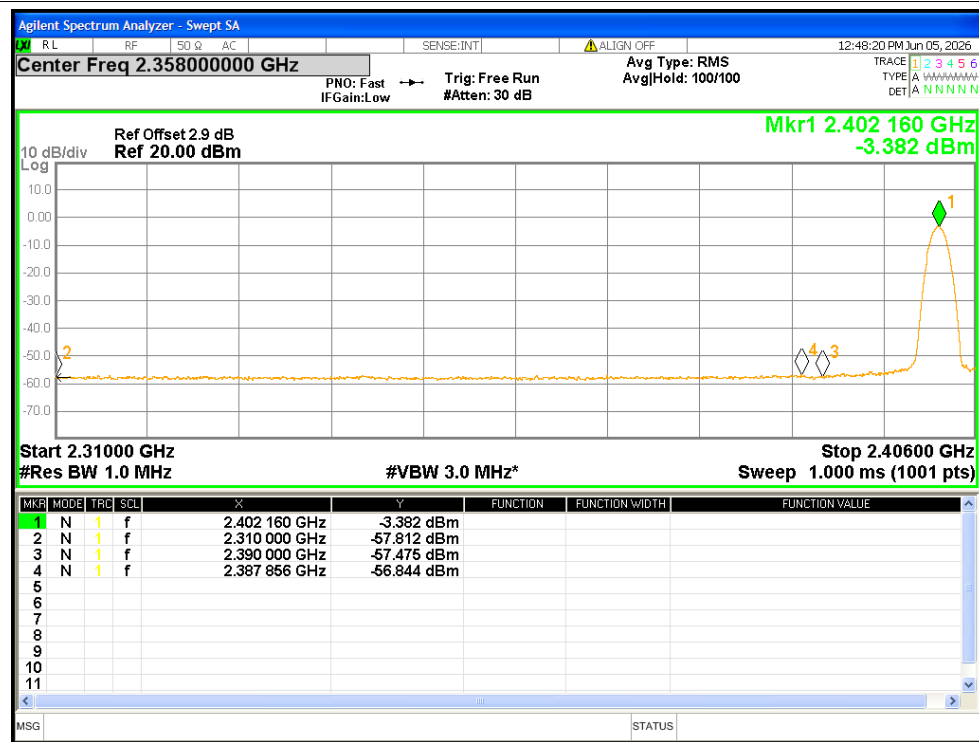
Restrict Band NVNT 2-DH5 2480MHz No-Hopping Average



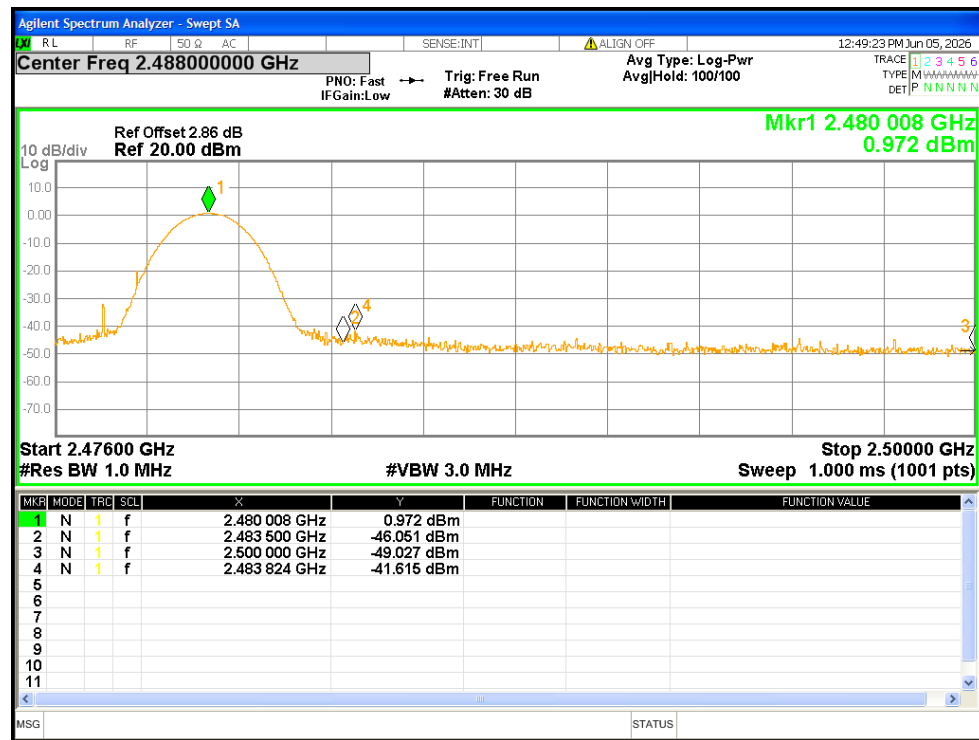
Restrict Band NVNT 3-DH5 2402MHz No-Hopping Peak



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

