



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

FCC Appendix RF Test Data for BT

FCC ID : 2BHJR-129

Company : Shenzhen xiaoxiang supply chain technology co., ltd

EUT : MINISO Wireless Earbud

Model Number : MS129

Report No. : CTA26073103601

Reviewed By : Eric Wang



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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	120.015	315	31600	<=400	Pass
1-DH3	2441	1.637	253.735	155	31600	<=400	Pass
1-DH5	2441	2.885	288.5	100	31600	<=400	Pass
2-DH1	2441	0.389	121.368	312	31600	<=400	Pass
2-DH3	2441	1.642	264.362	161	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	262.4	160	31600	<=400	Pass
3-DH5	2441	2.891	300.664	104	31600	<=400	Pass

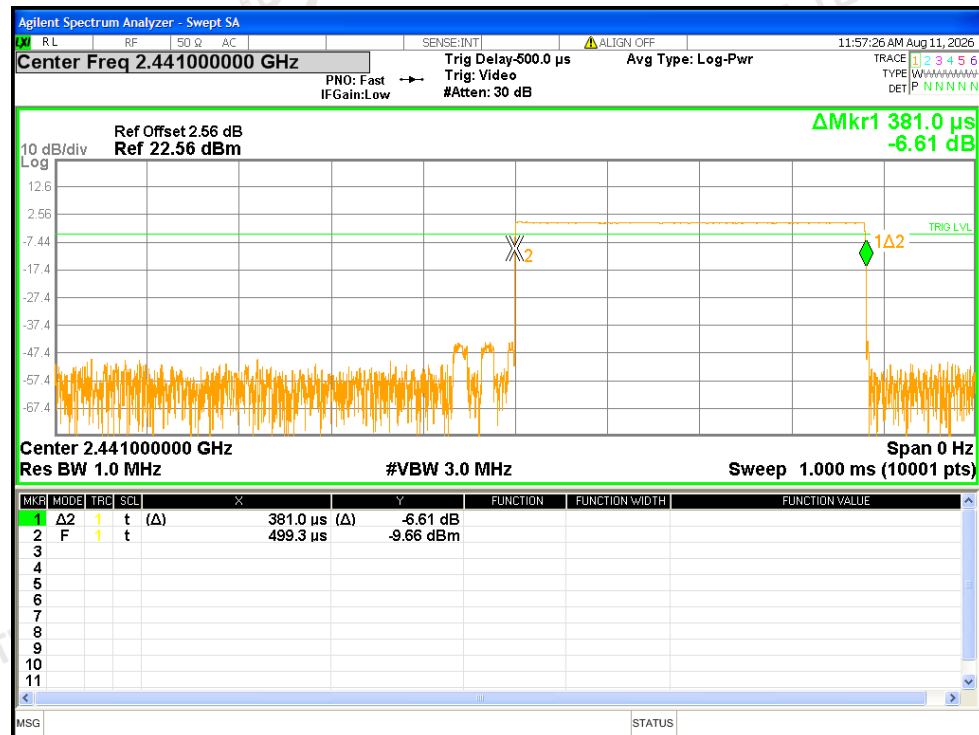


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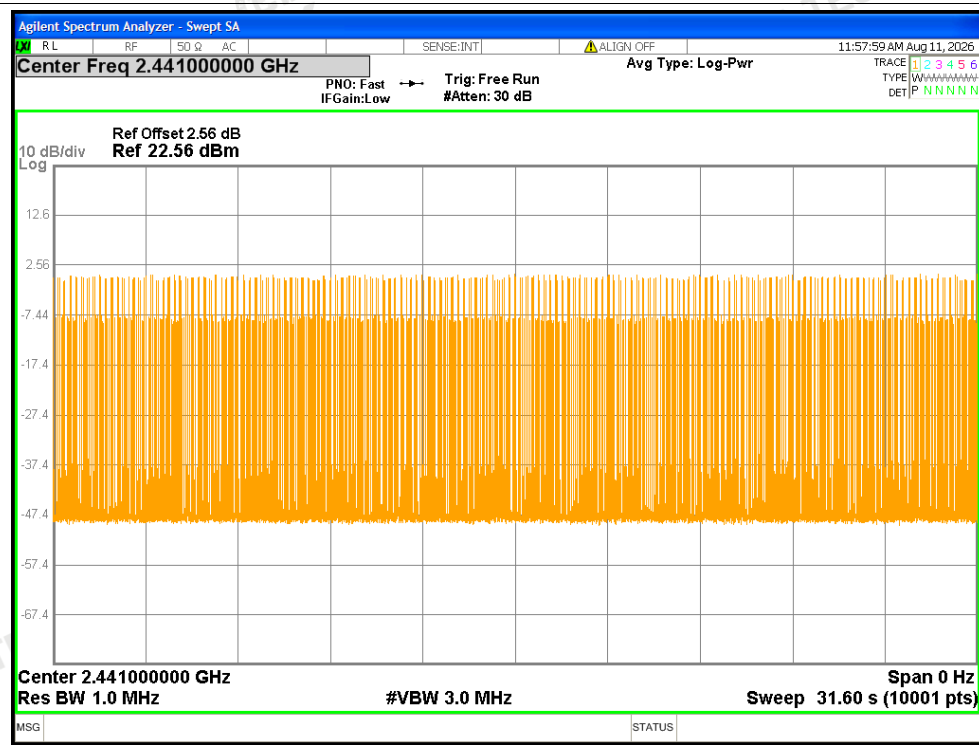
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Test Graphs

Dwell NVNT 1-DH1 2441MHz One Burst



Dwell NVNT 1-DH1 2441MHz Accumulated

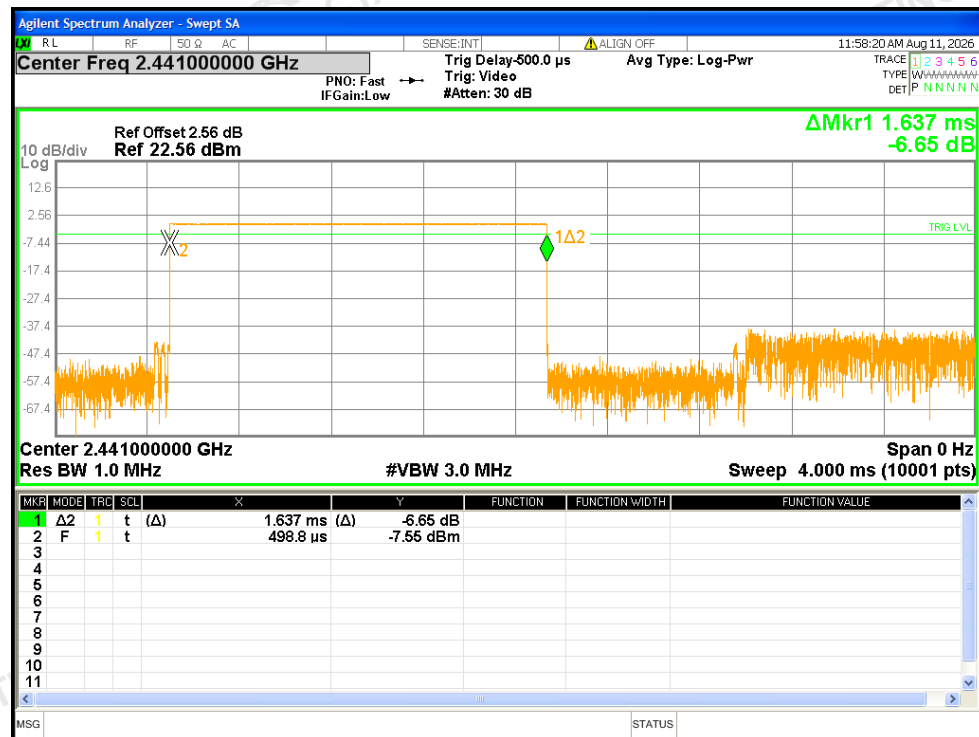




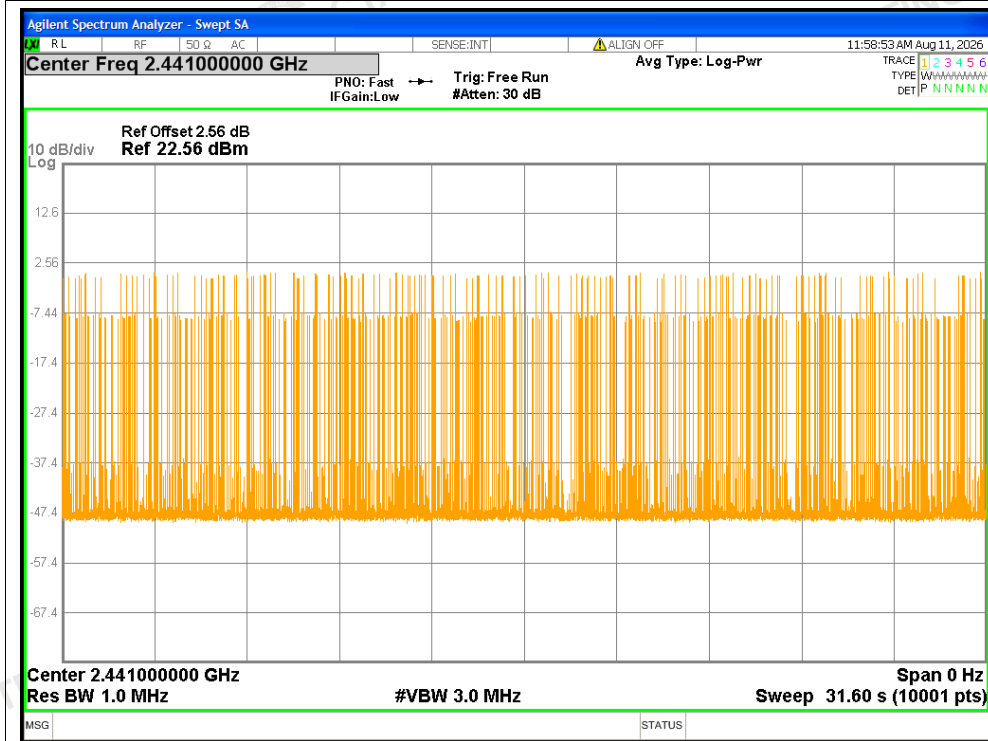
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Dwell NVNT 1-DH3 2441MHz One Burst



Dwell NVNT 1-DH3 2441MHz Accumulated





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Dwell NVNT 1-DH5 2441MHz One Burst



Dwell NVNT 1-DH5 2441MHz Accumulated

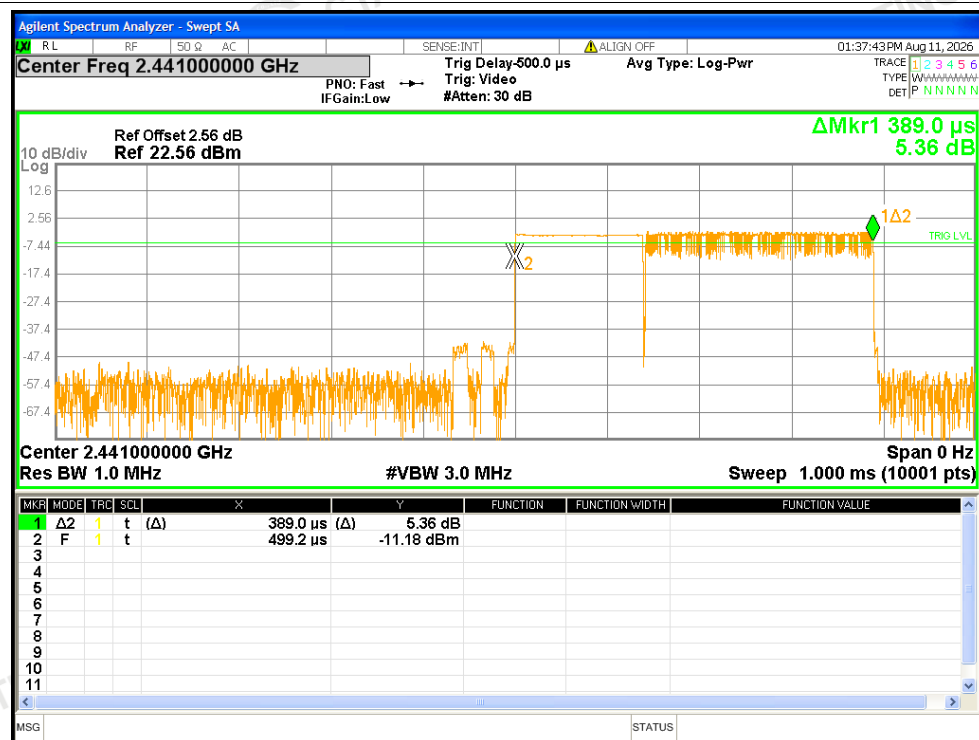




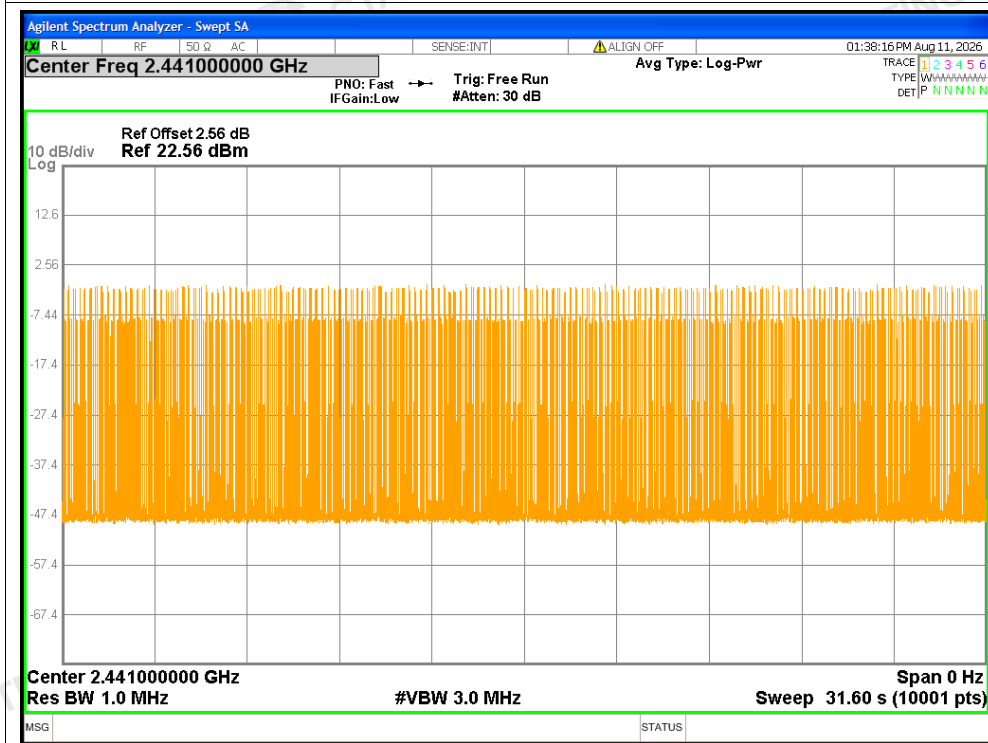
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Dwell NVNT 2-DH1 2441MHz One Burst



Dwell NVNT 2-DH1 2441MHz Accumulated





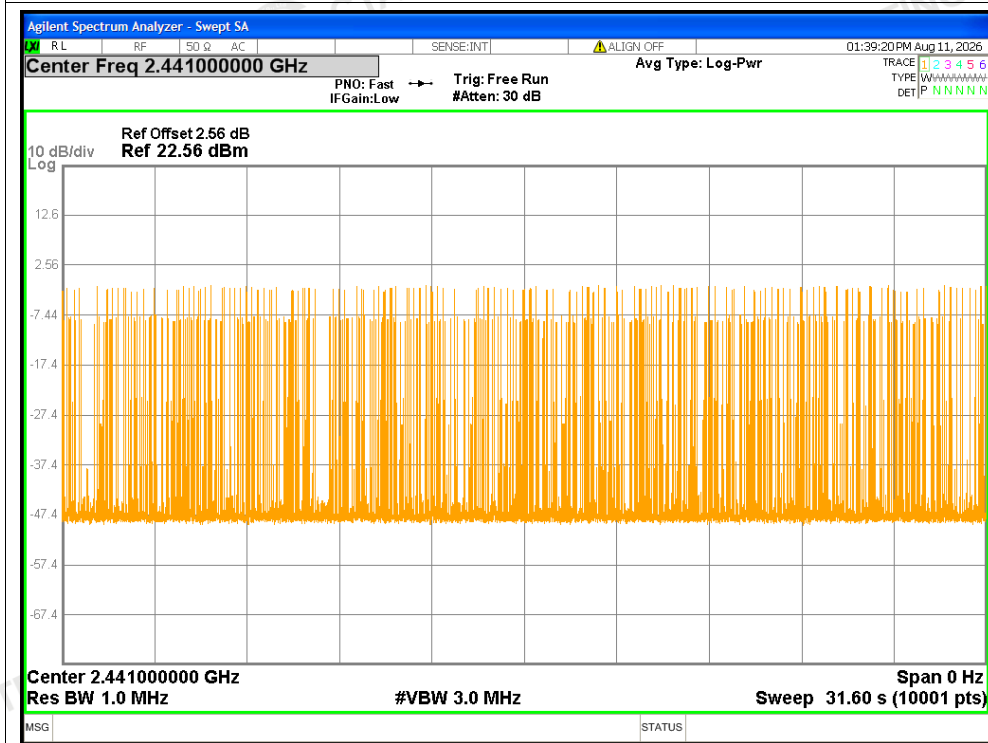
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Dwell NVNT 2-DH3 2441MHz One Burst



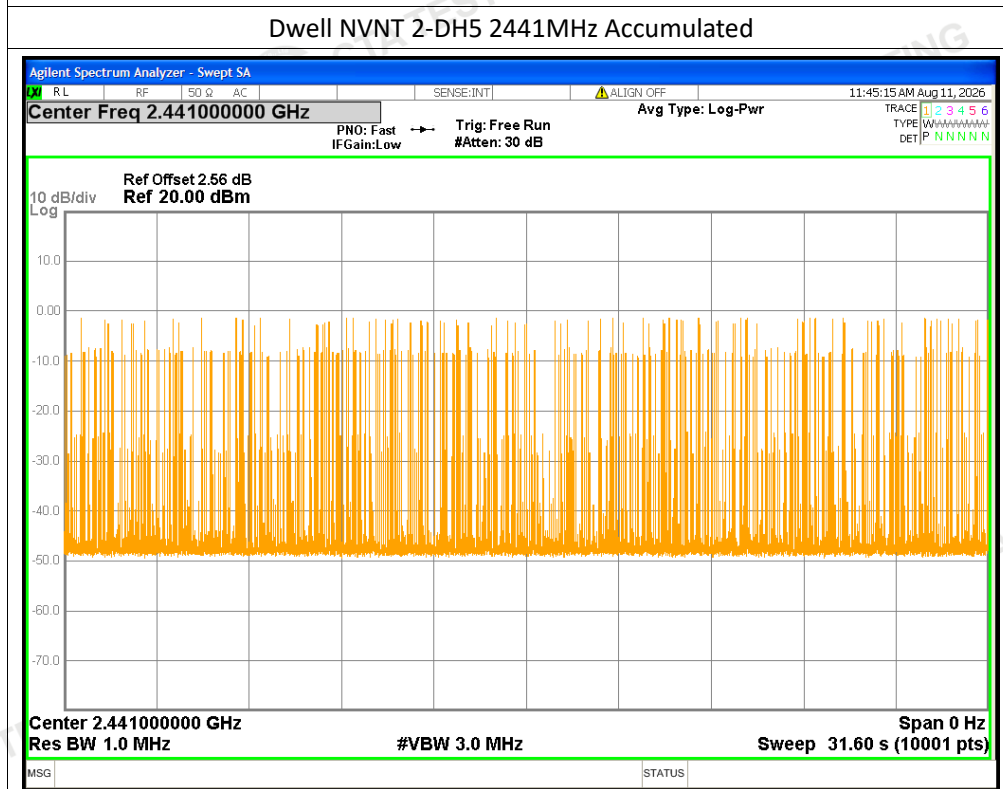
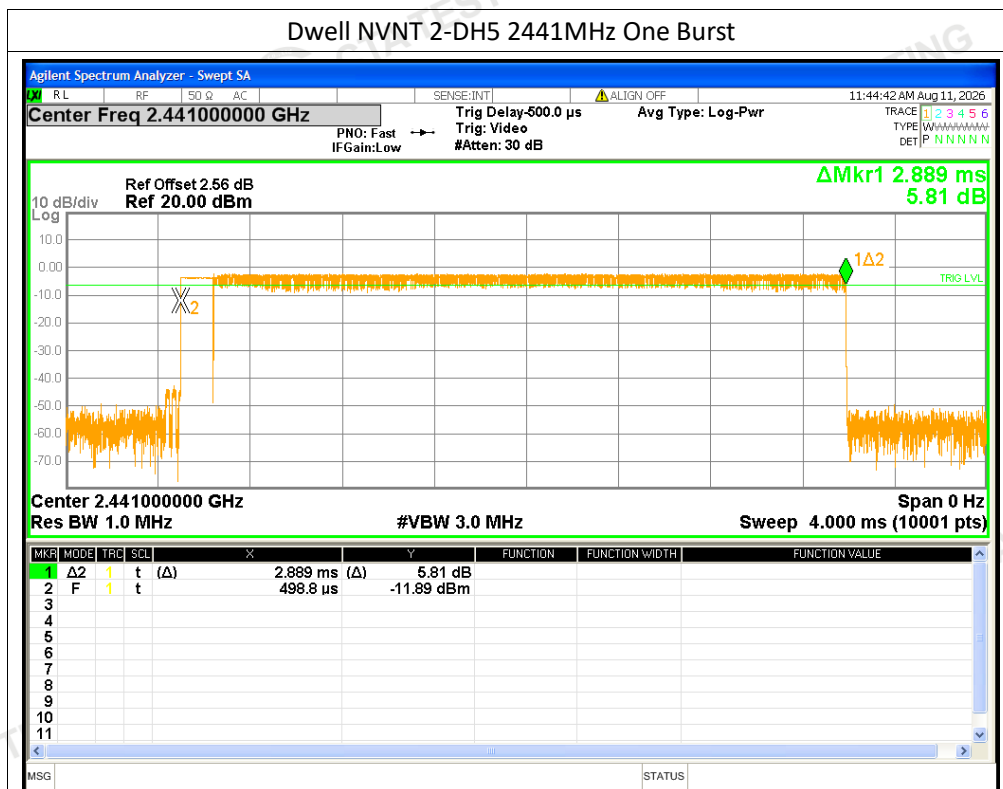
Dwell NVNT 2-DH3 2441MHz Accumulated





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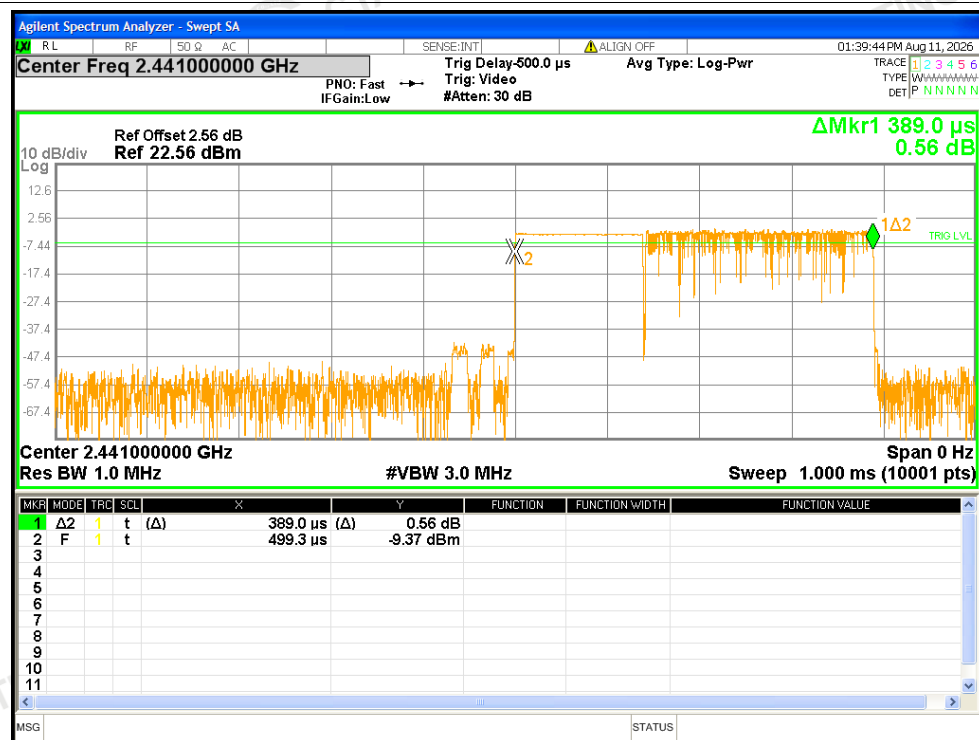




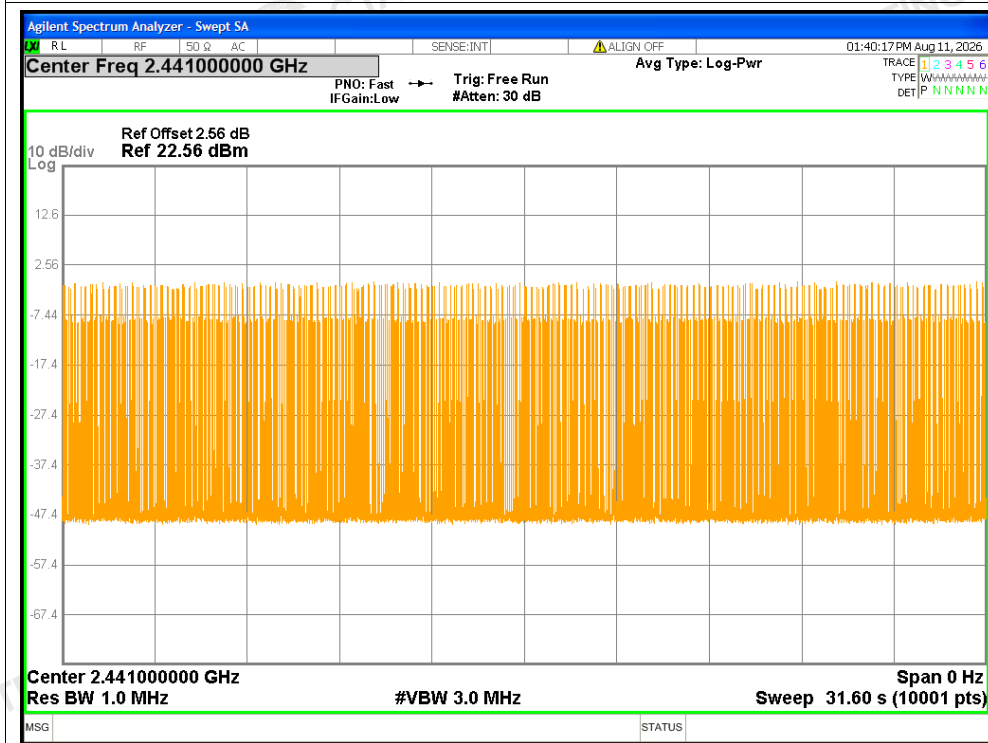
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Dwell NVNT 3-DH1 2441MHz One Burst



Dwell NVNT 3-DH1 2441MHz Accumulated

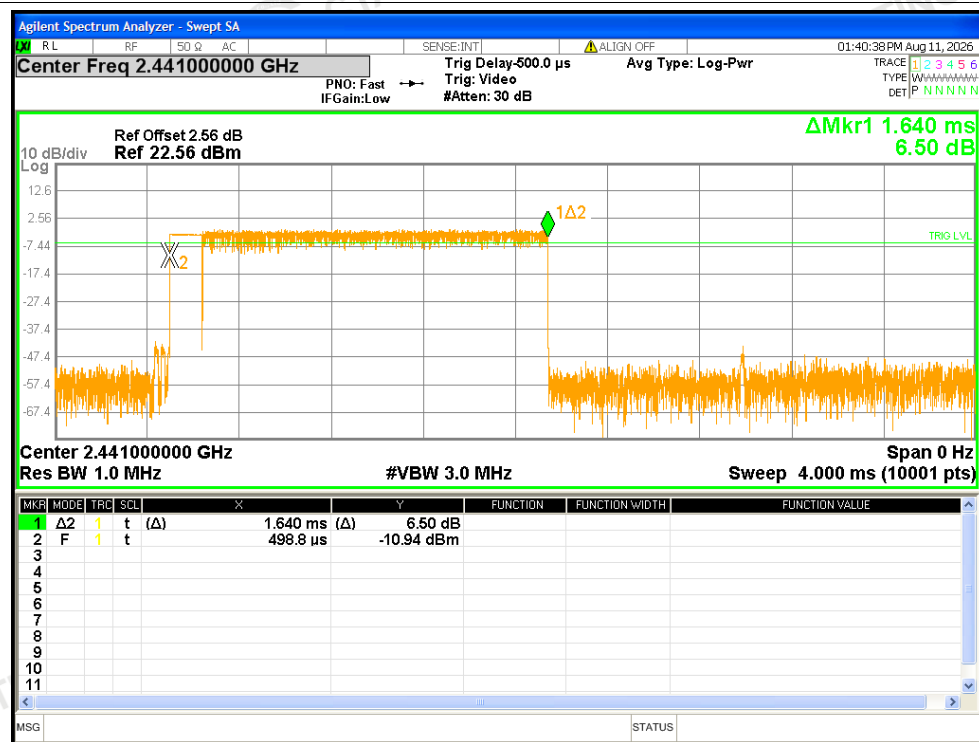




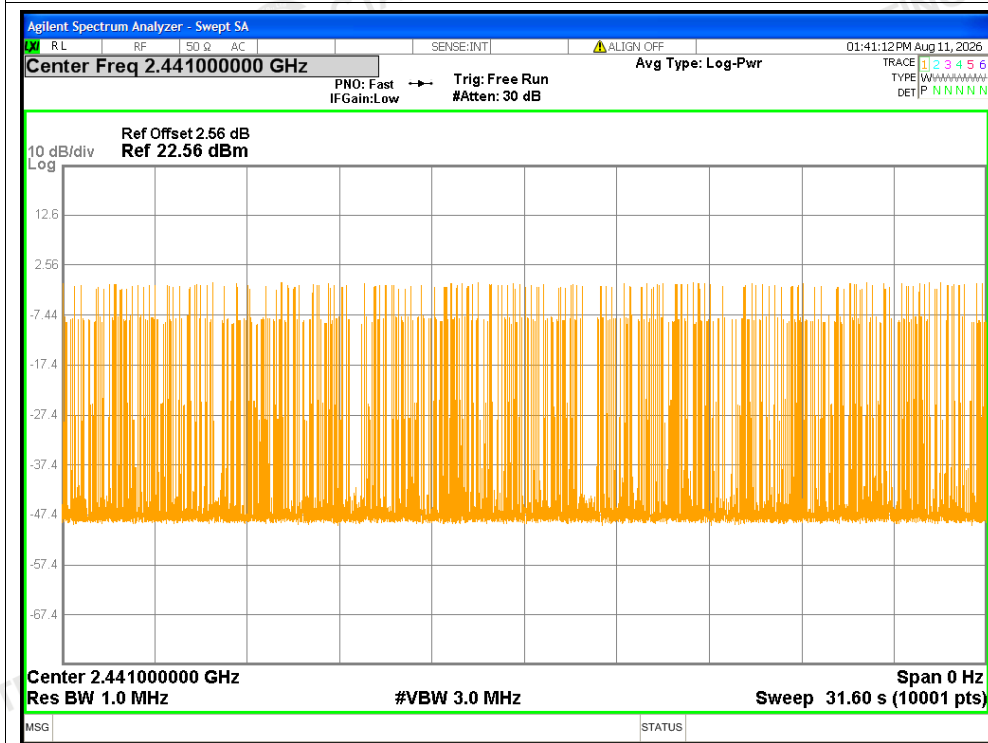
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Dwell NVNT 3-DH3 2441MHz One Burst



Dwell NVNT 3-DH3 2441MHz Accumulated

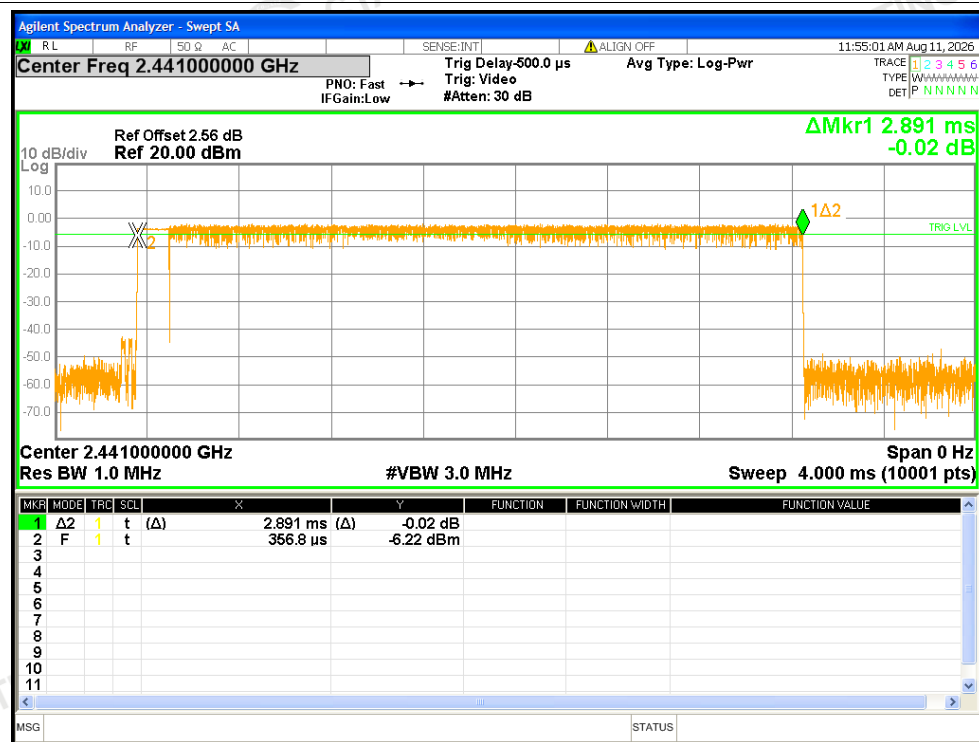




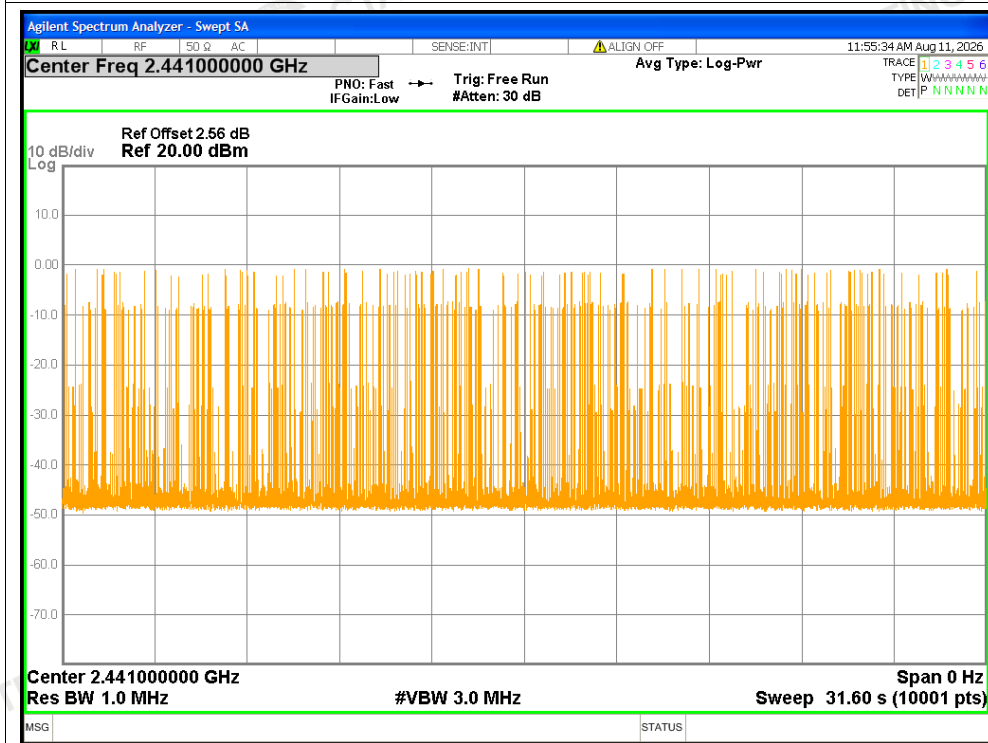
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Dwell NVNT 3-DH5 2441MHz One Burst



Dwell NVNT 3-DH5 2441MHz Accumulated





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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	2.889	3.75	77.04	1.13	0.35
2-DH5	2441	2.892	3.75	77.12	1.13	0.35
2-DH5	2480	2.892	3.75	77.12	1.13	0.35
3-DH5	2402	2.895	3.75	77.2	1.12	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

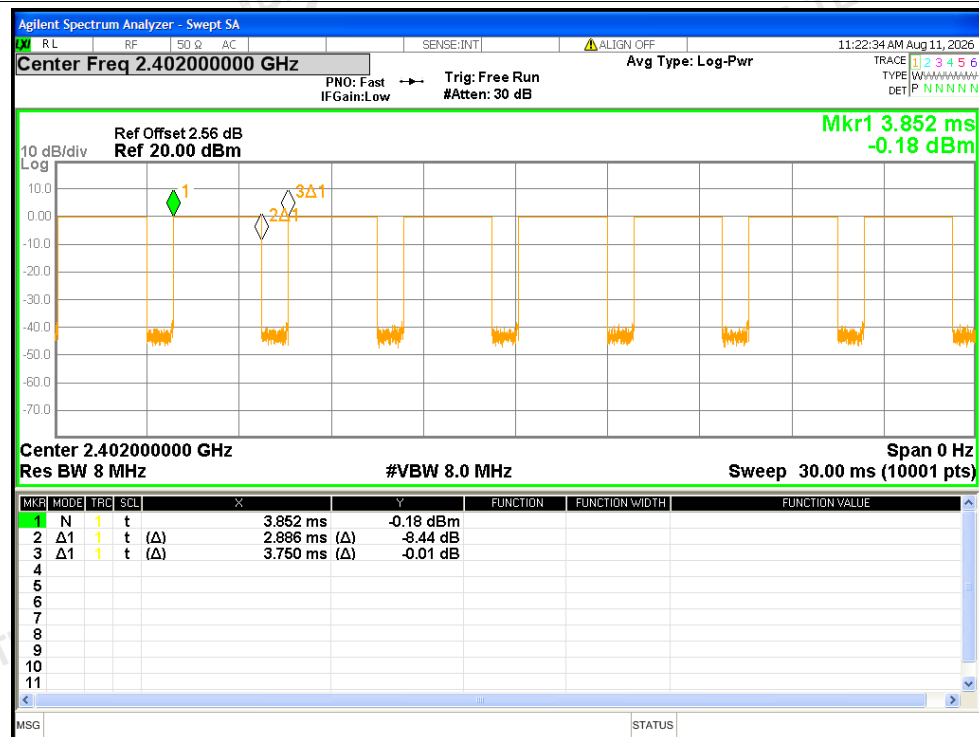


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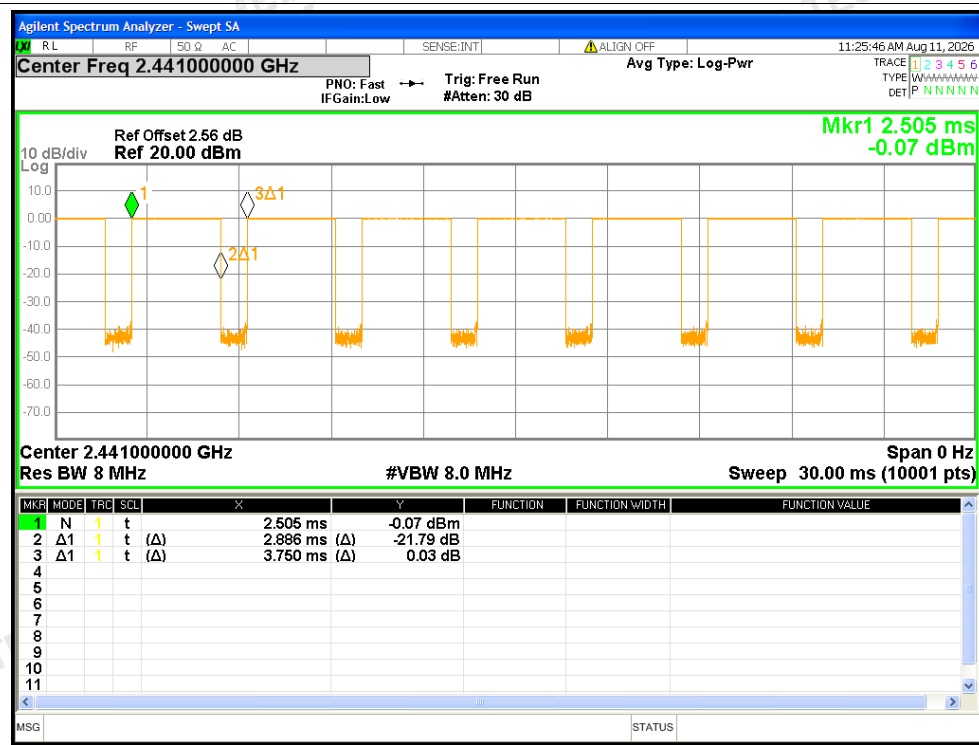
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Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz



Duty Cycle NVNT 1-DH5 2441MHz

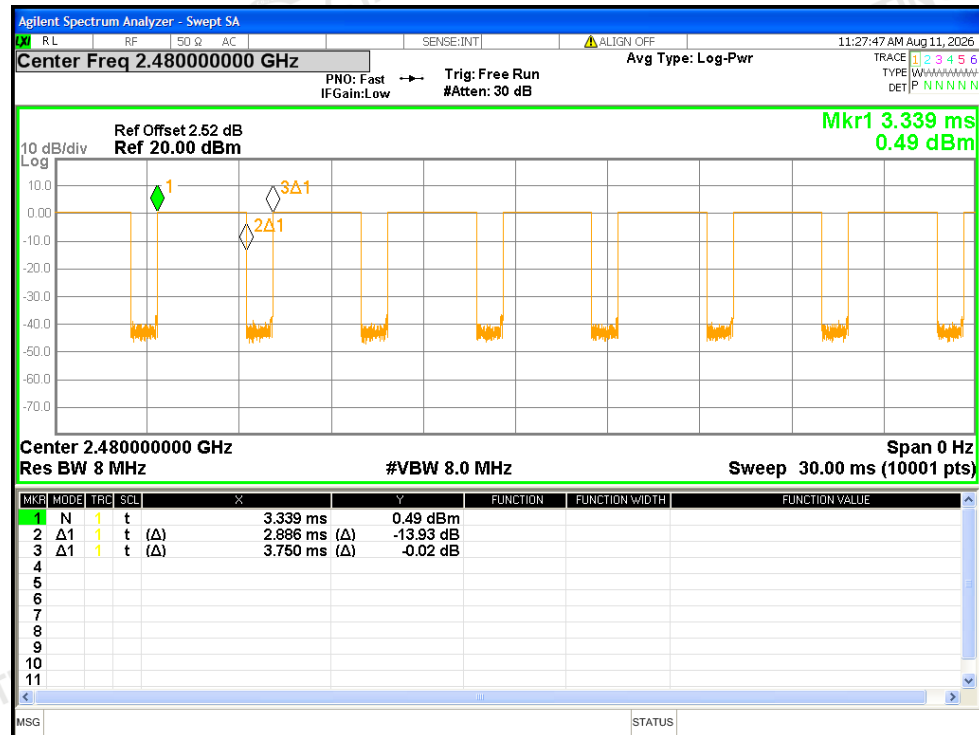




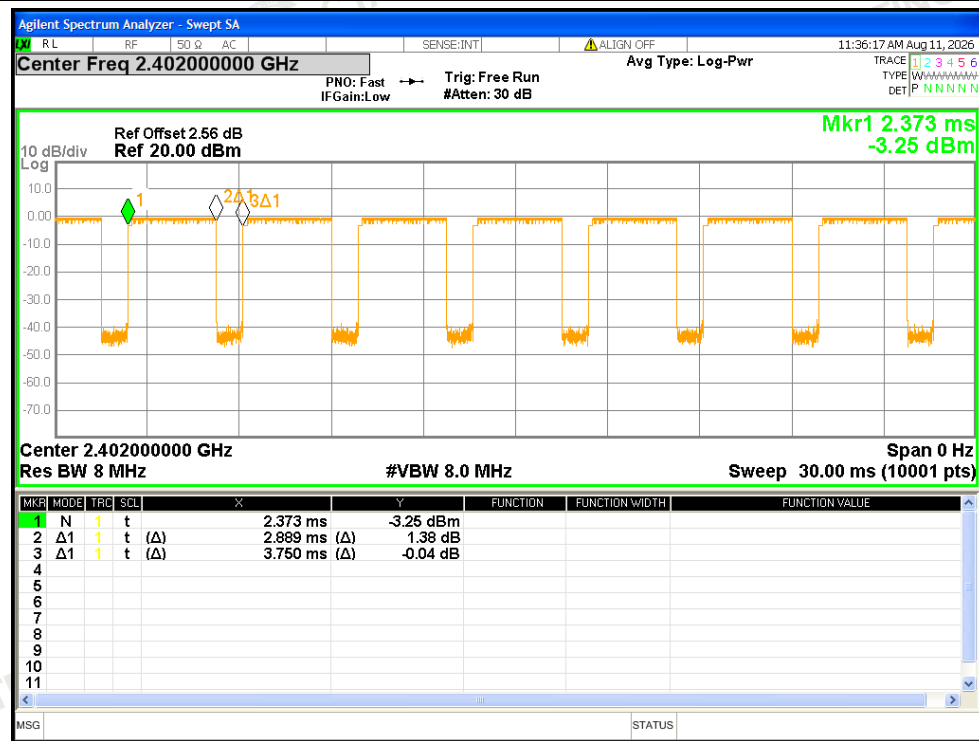
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Duty Cycle NVNT 1-DH5 2480MHz



Duty Cycle NVNT 2-DH5 2402MHz

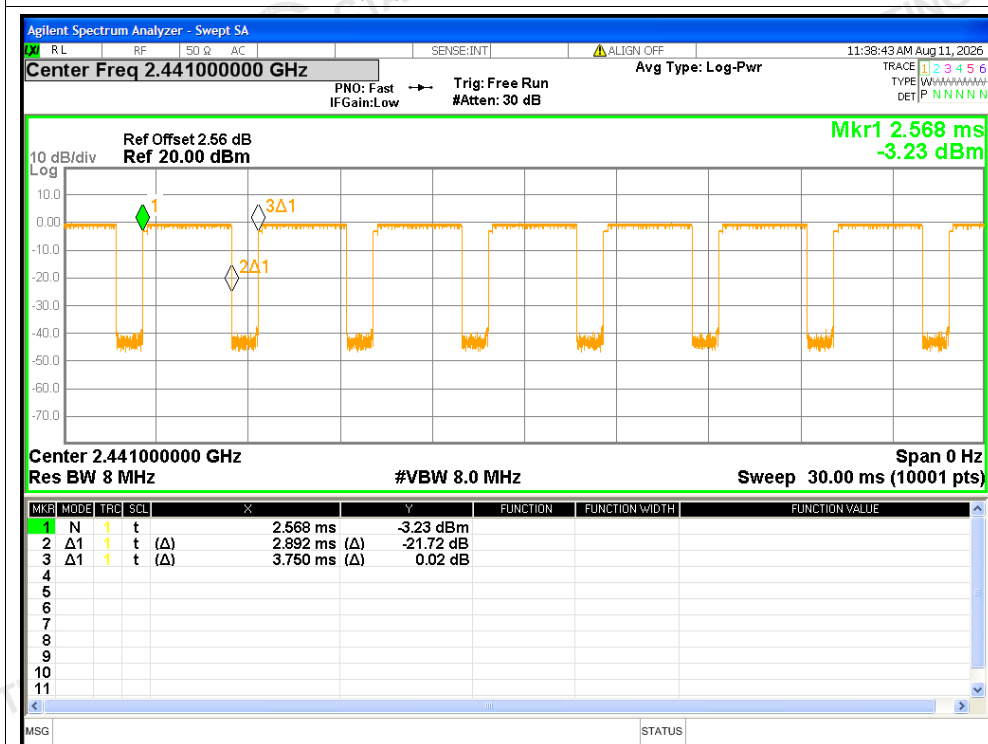




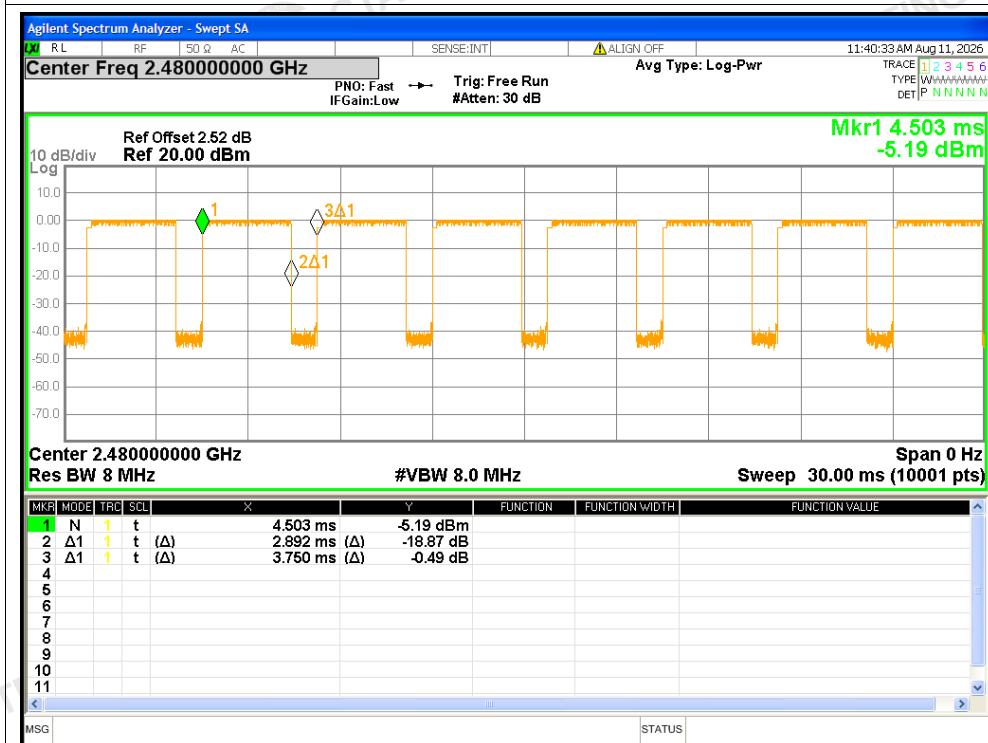
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Duty Cycle NVNT 2-DH5 2441MHz



Duty Cycle NVNT 2-DH5 2480MHz

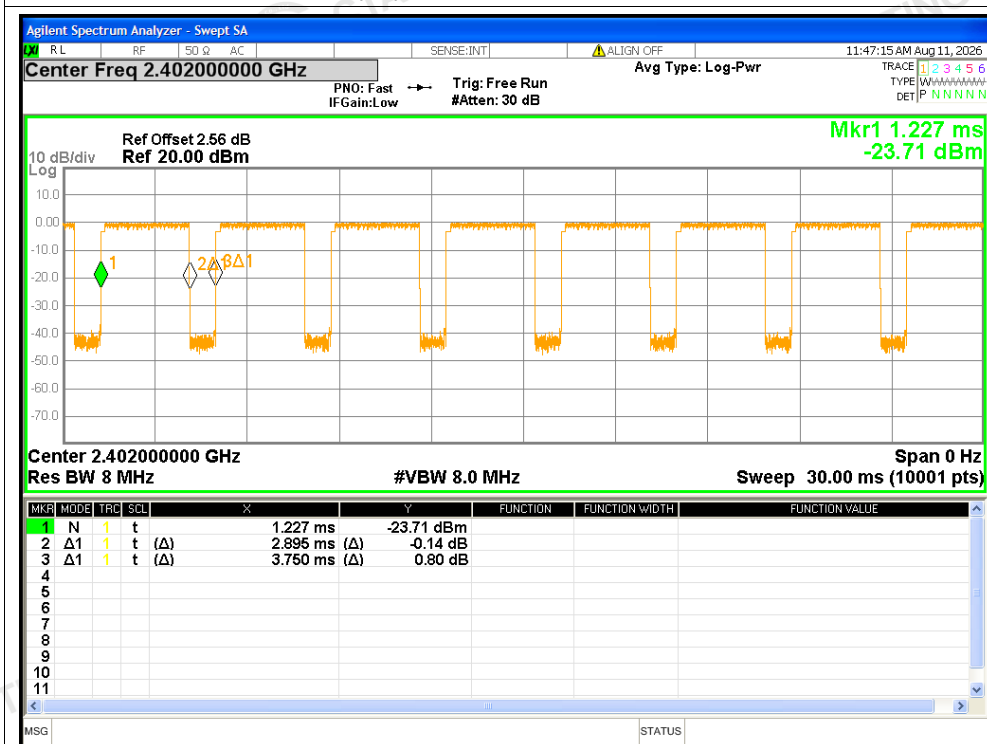




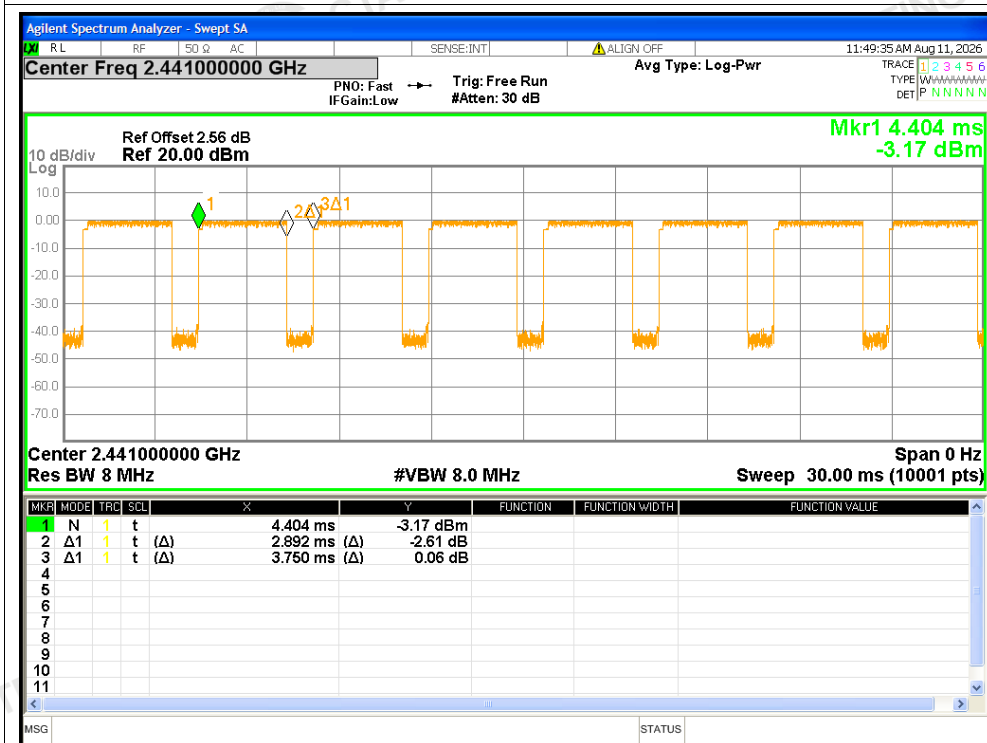
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Duty Cycle NVNT 3-DH5 2402MHz



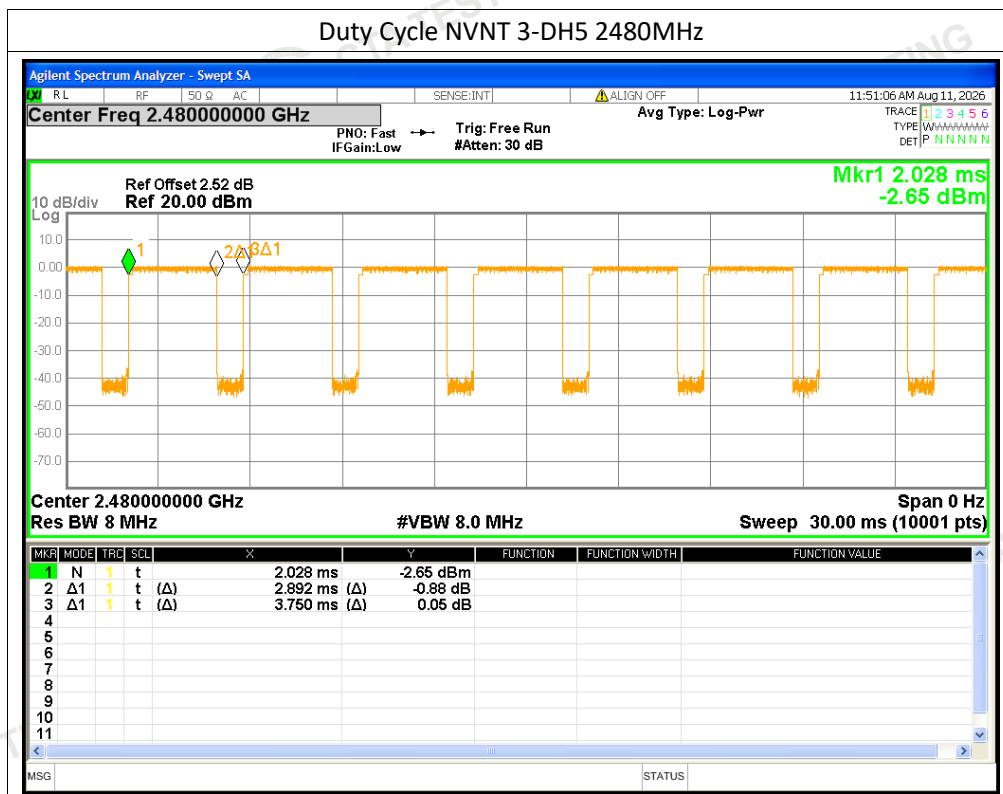
Duty Cycle NVNT 3-DH5 2441MHz





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Maximum Peak Conducted Output Power

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
1-DH5	2402	-0.12	<=30	Pass
1-DH5	2441	0.01	<=30	Pass
1-DH5	2480	0.51	<=30	Pass
2-DH5	2402	-1.1	<=21	Pass
2-DH5	2441	-1.09	<=21	Pass
2-DH5	2480	-0.57	<=21	Pass
3-DH5	2402	-0.93	<=21	Pass
3-DH5	2441	-0.85	<=21	Pass
3-DH5	2480	-0.33	<=21	Pass



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-20dB Bandwidth

Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
1-DH5	2402	0.9549	Pass
1-DH5	2441	0.9392	Pass
1-DH5	2480	0.9576	Pass
2-DH5	2402	1.475	Pass
2-DH5	2441	1.435	Pass
2-DH5	2480	1.471	Pass
3-DH5	2402	1.503	Pass
3-DH5	2441	1.485	Pass
3-DH5	2480	1.431	Pass

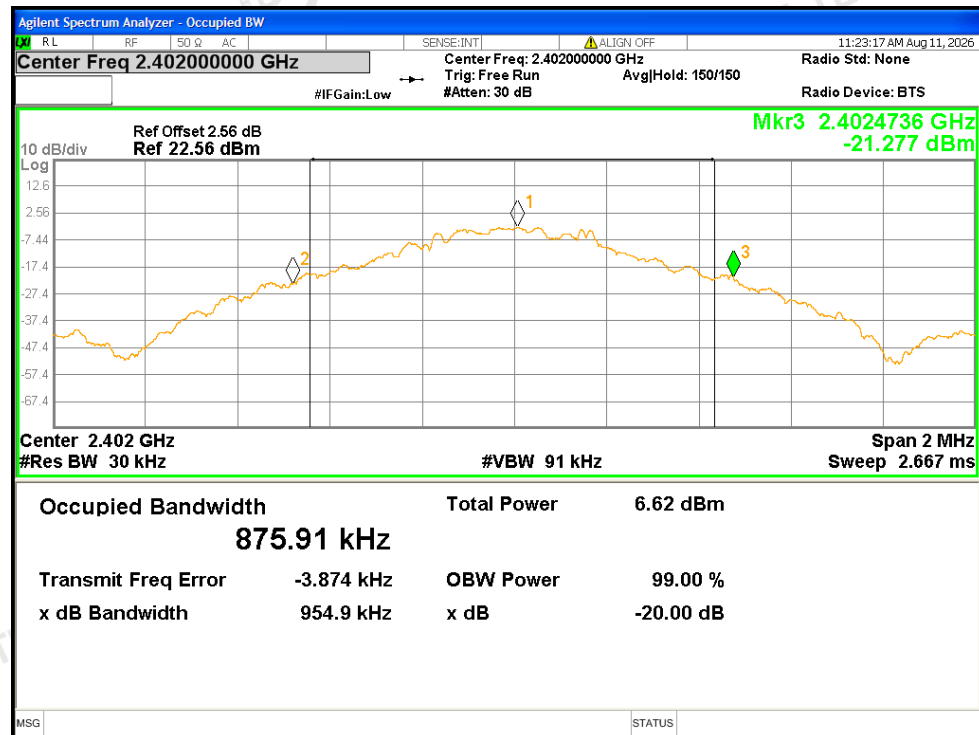


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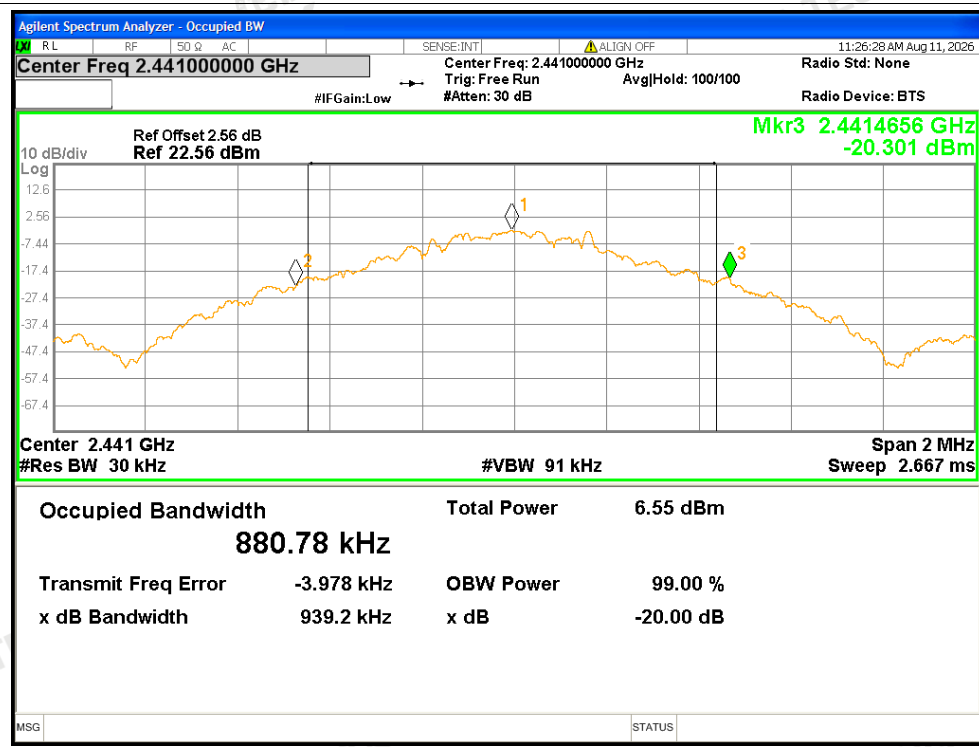
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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz



-20dB Bandwidth NVNT 1-DH5 2441MHz

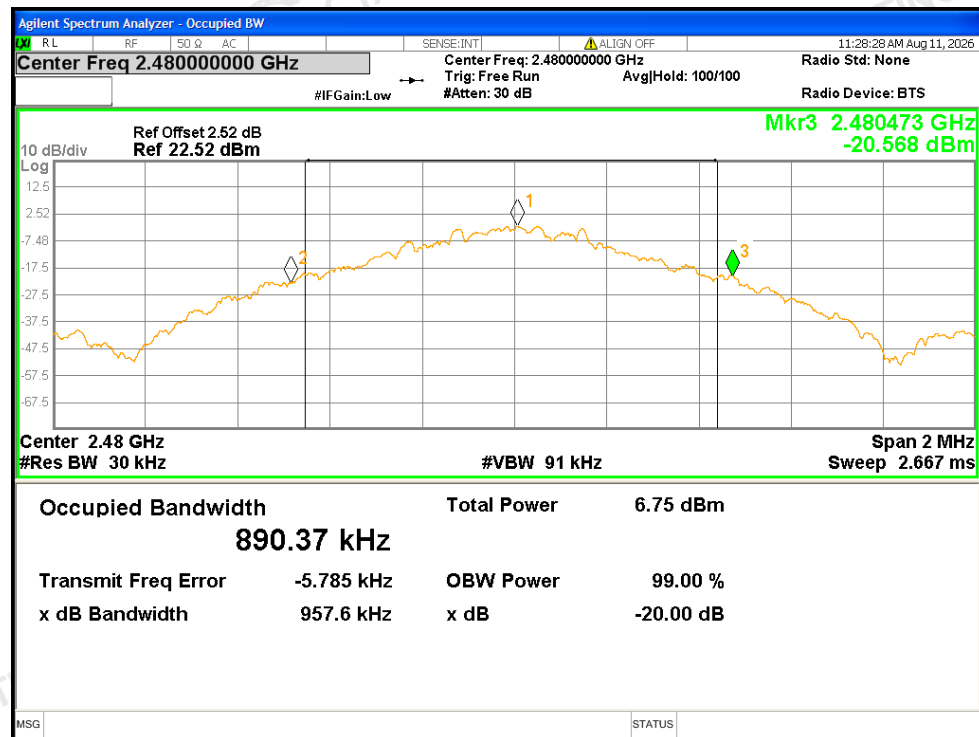




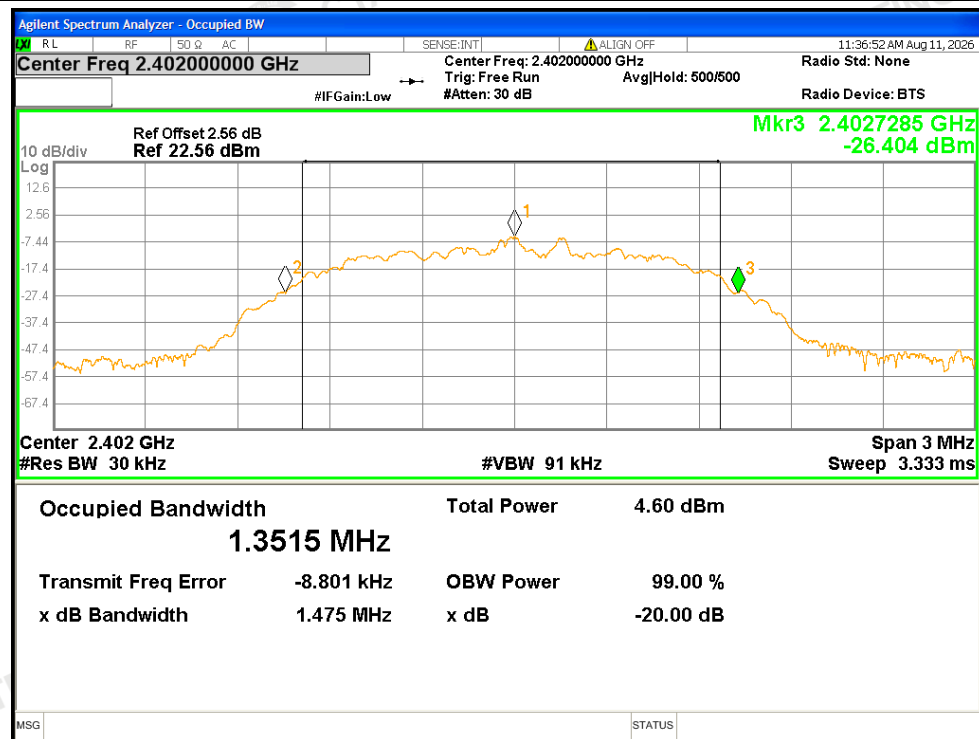
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-20dB Bandwidth NVNT 1-DH5 2480MHz



-20dB Bandwidth NVNT 2-DH5 2402MHz

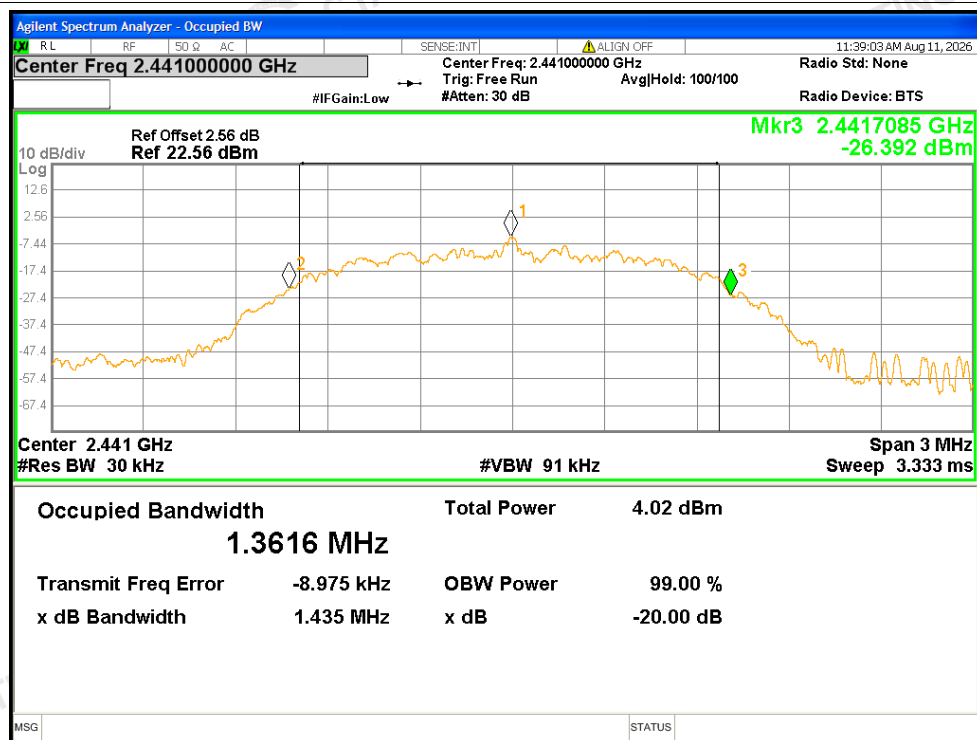




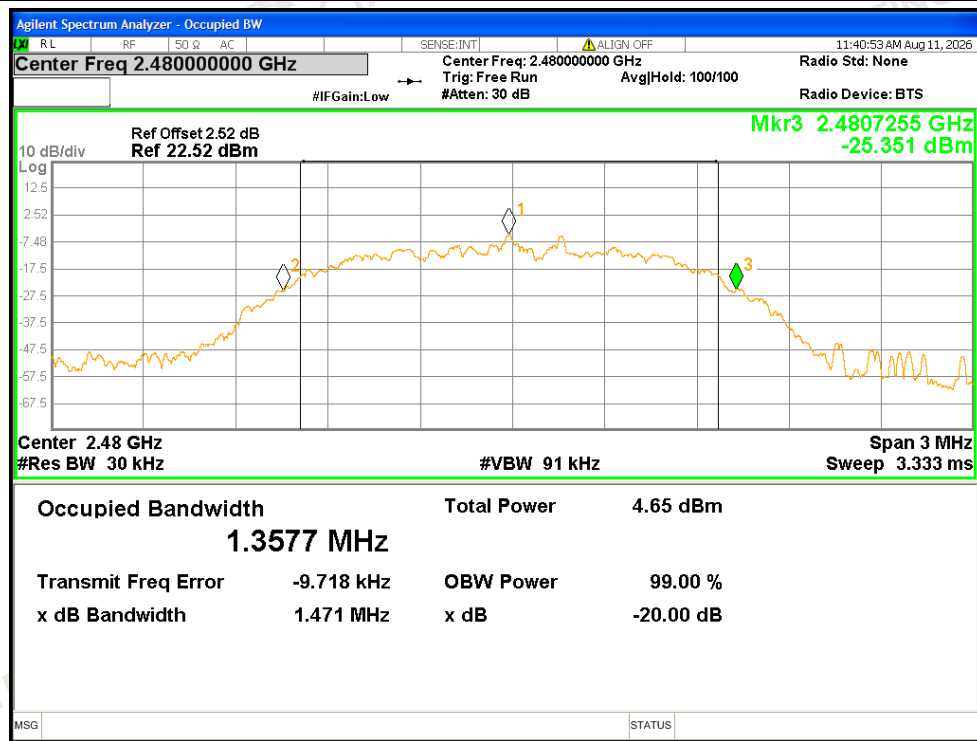
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-20dB Bandwidth NVNT 2-DH5 2441MHz



-20dB Bandwidth NVNT 2-DH5 2480MHz

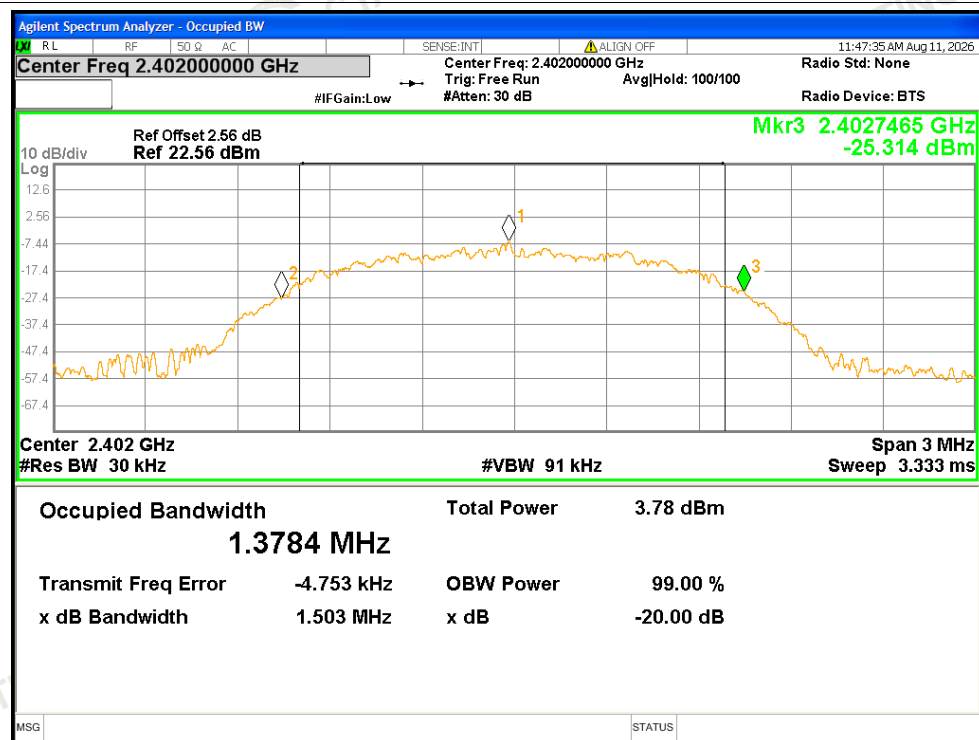




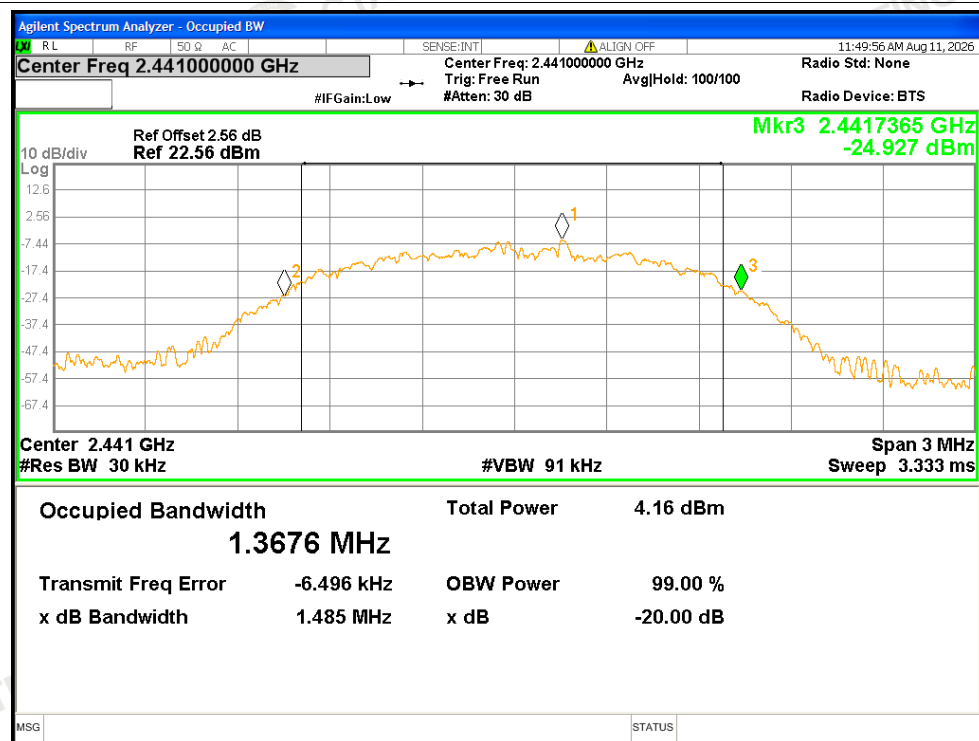
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-20dB Bandwidth NVNT 3-DH5 2402MHz



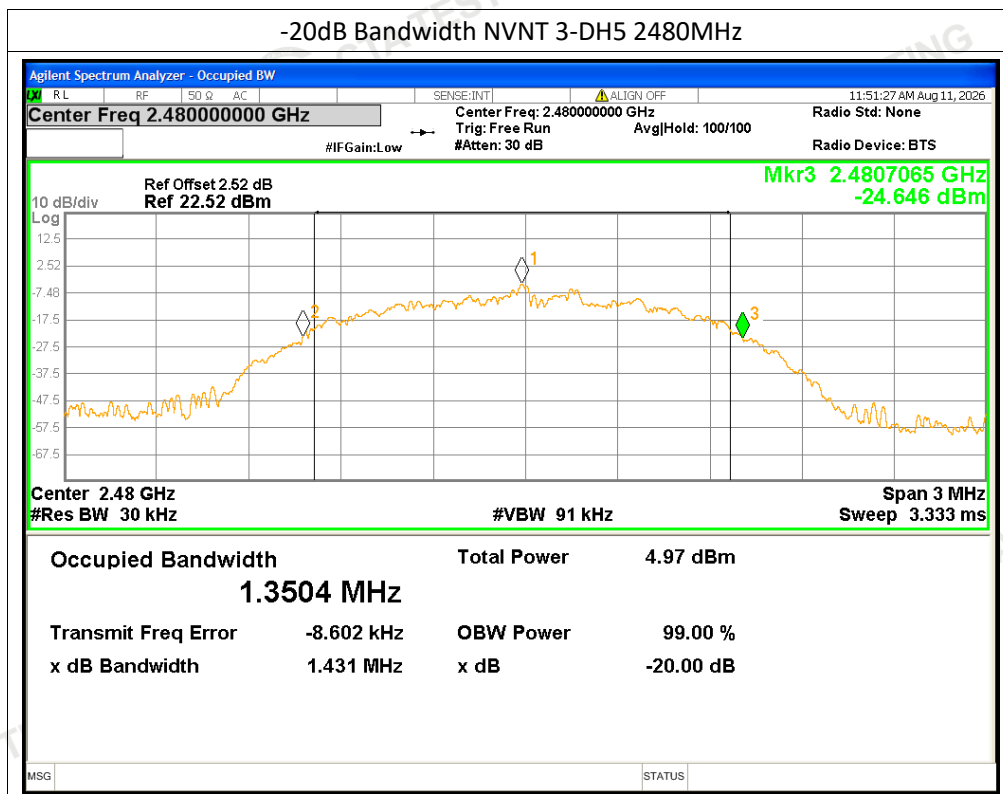
-20dB Bandwidth NVNT 3-DH5 2441MHz





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Carrier Frequencies Separation

Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
1-DH5	2402.14	2403.163	1.023	≥ 0.955	Pass
1-DH5	2440.822	2441.842	1.02	≥ 0.939	Pass
1-DH5	2479.137	2480.133	0.996	≥ 0.958	Pass
2-DH5	2402.125	2403.13	1.005	≥ 0.983	Pass
2-DH5	2440.867	2442.1	1.233	≥ 0.957	Pass
2-DH5	2478.849	2479.884	1.035	≥ 0.981	Pass
3-DH5	2401.999	2403.136	1.137	≥ 1.002	Pass
3-DH5	2440.813	2442.184	1.371	≥ 0.99	Pass
3-DH5	2478.825	2479.926	1.101	≥ 0.954	Pass

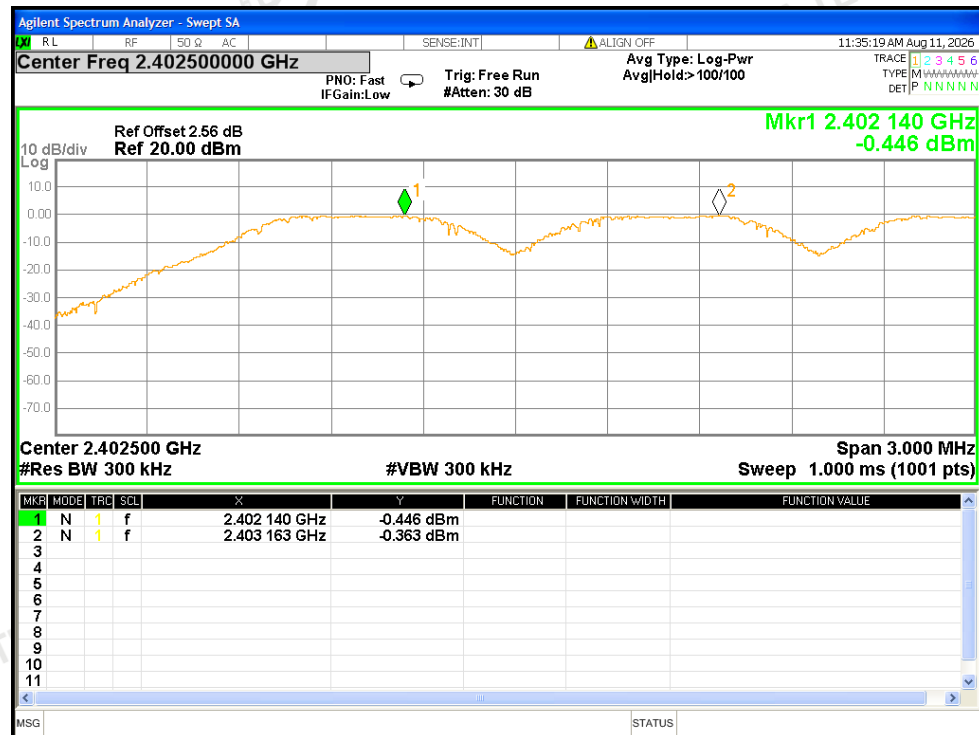


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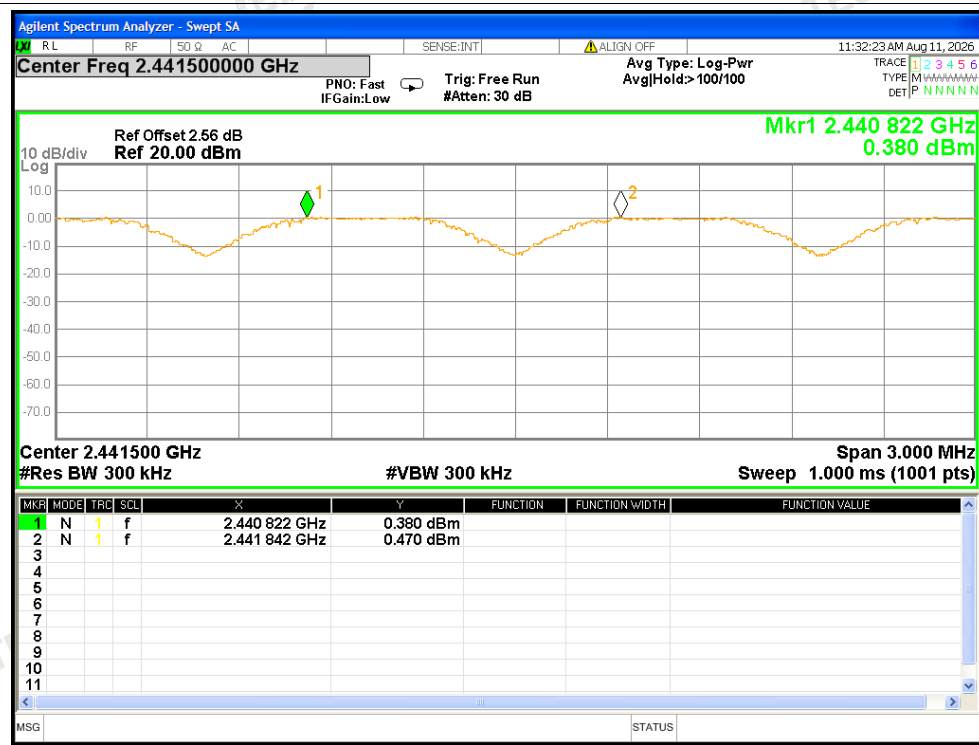
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Test Graphs

CFS NVNT 1-DH5 2402MHz



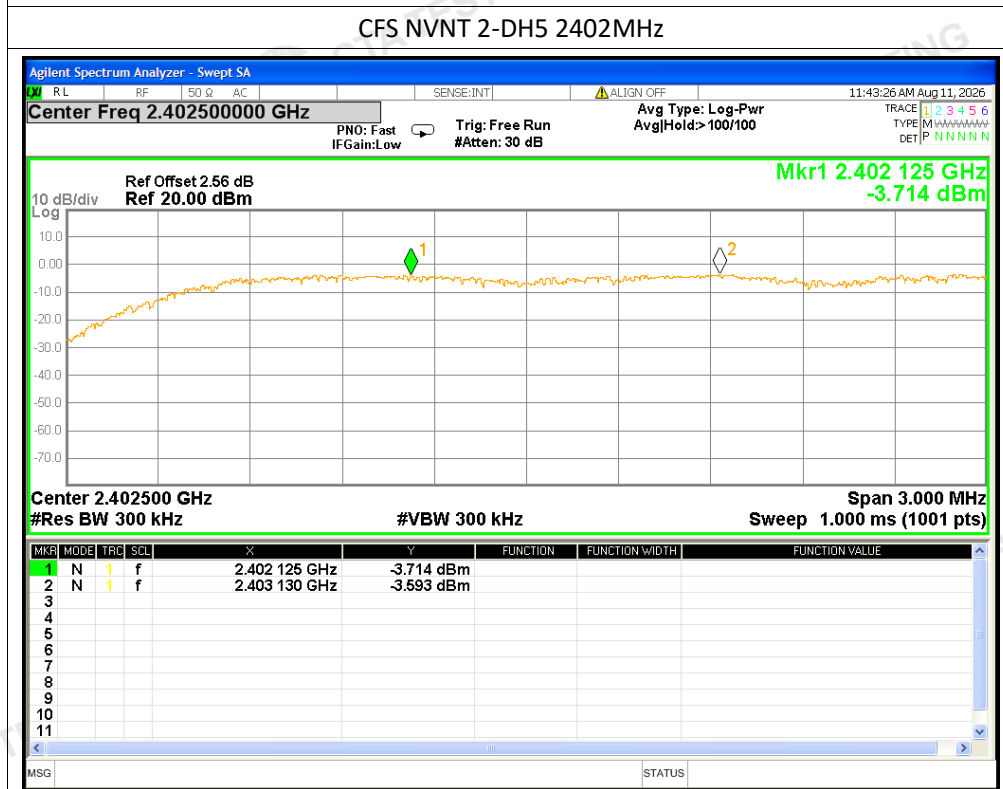
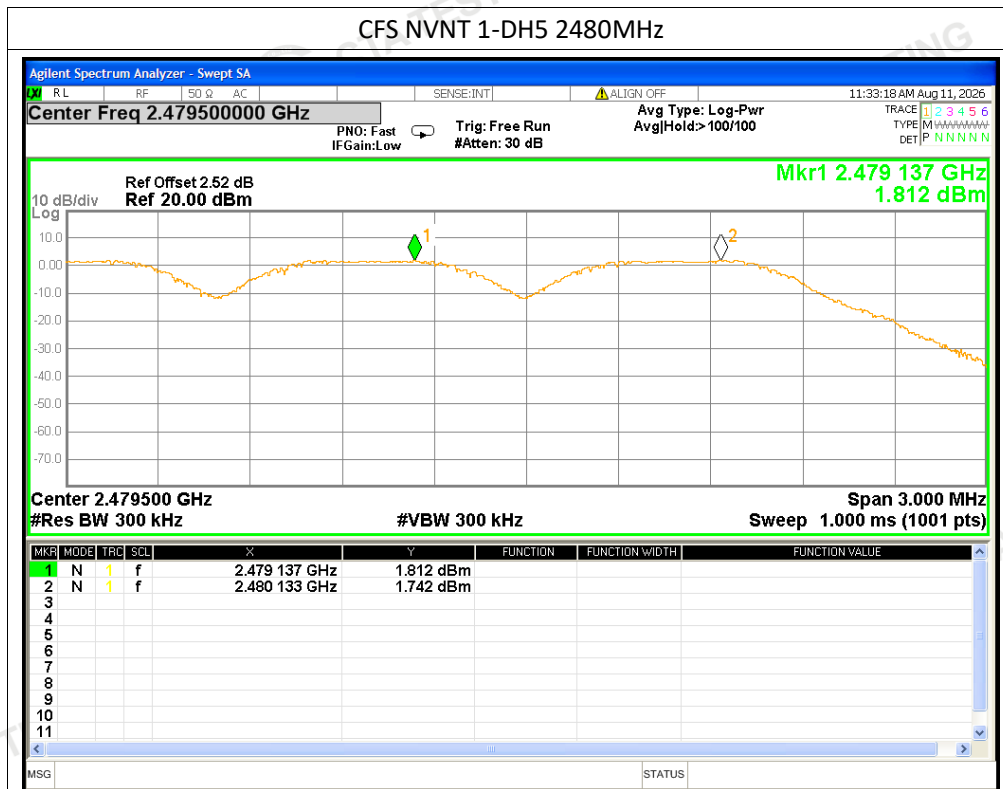
CFS NVNT 1-DH5 2441MHz





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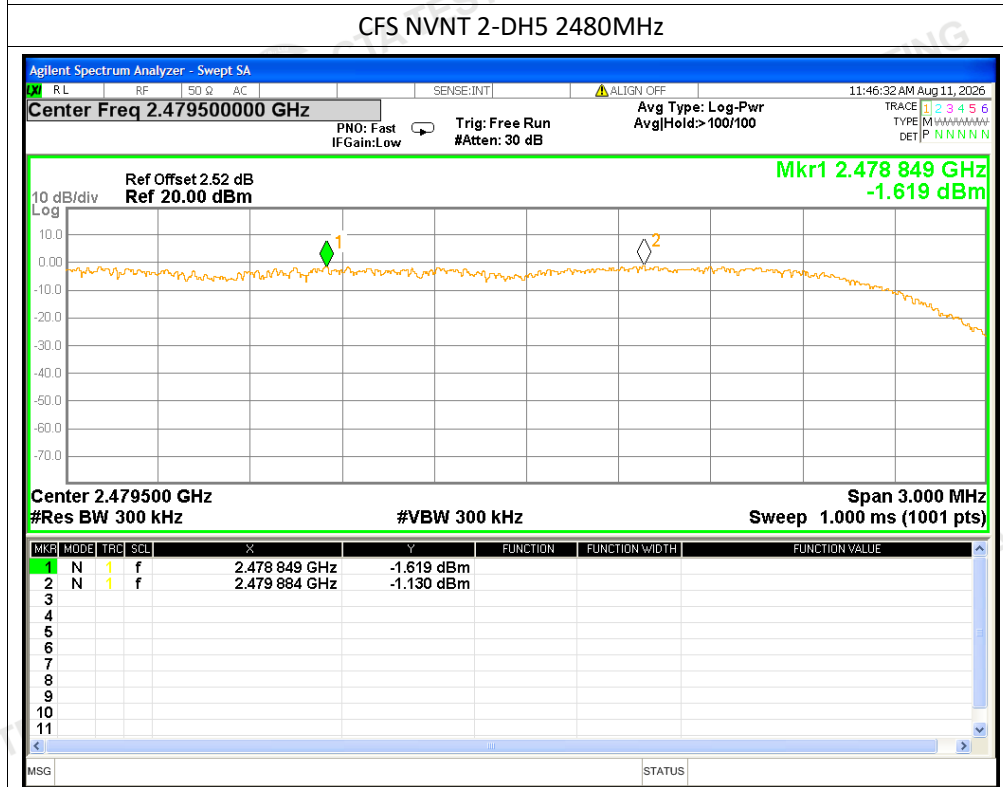
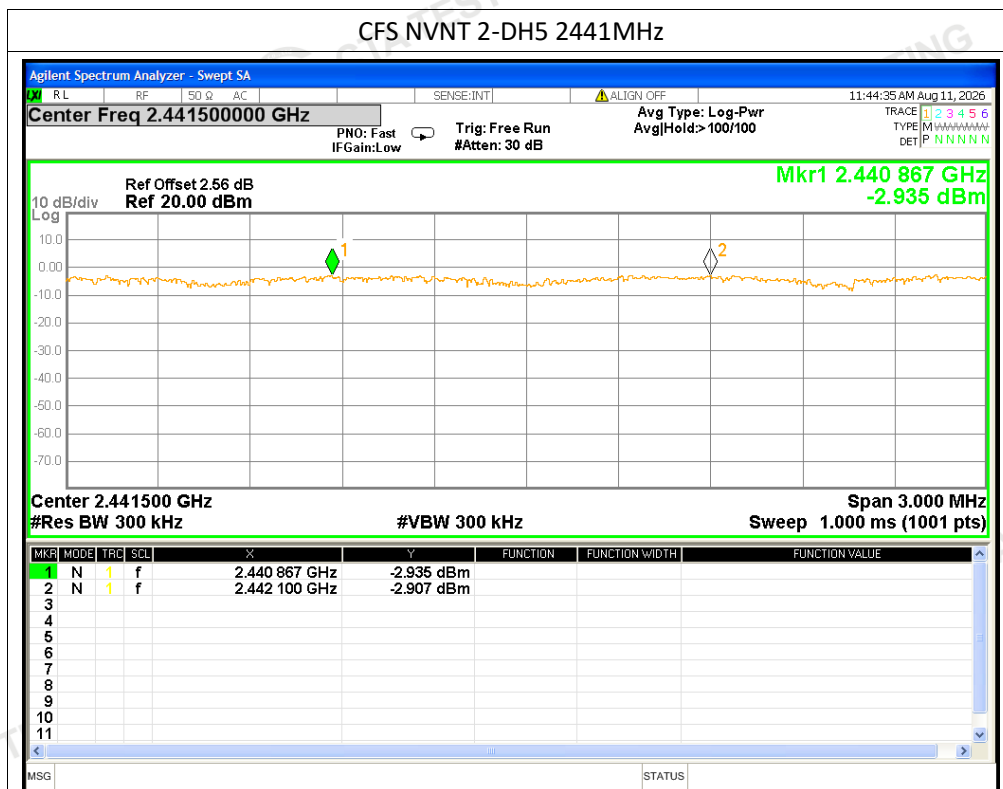
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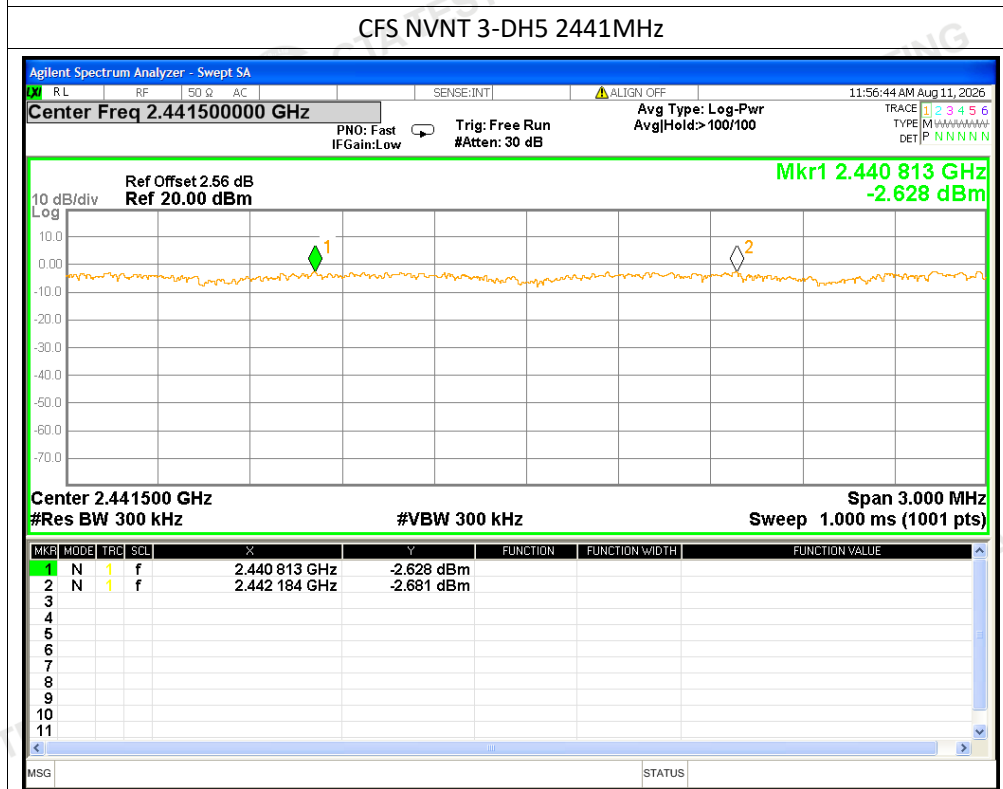
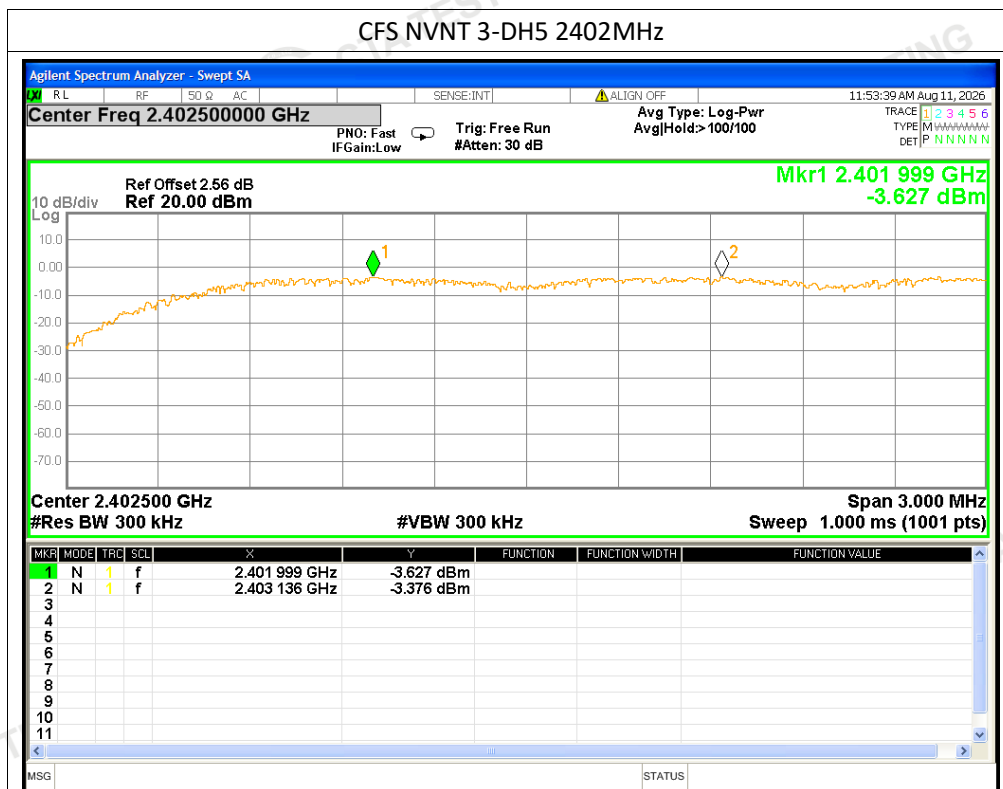
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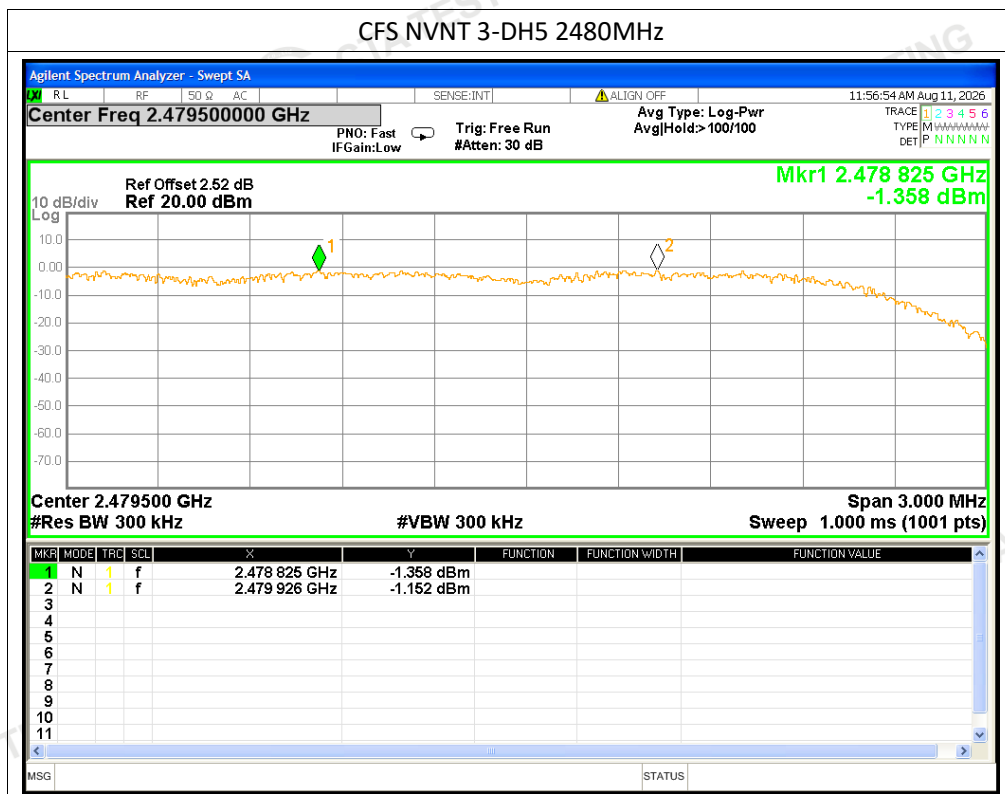
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Number of Hopping Channel

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

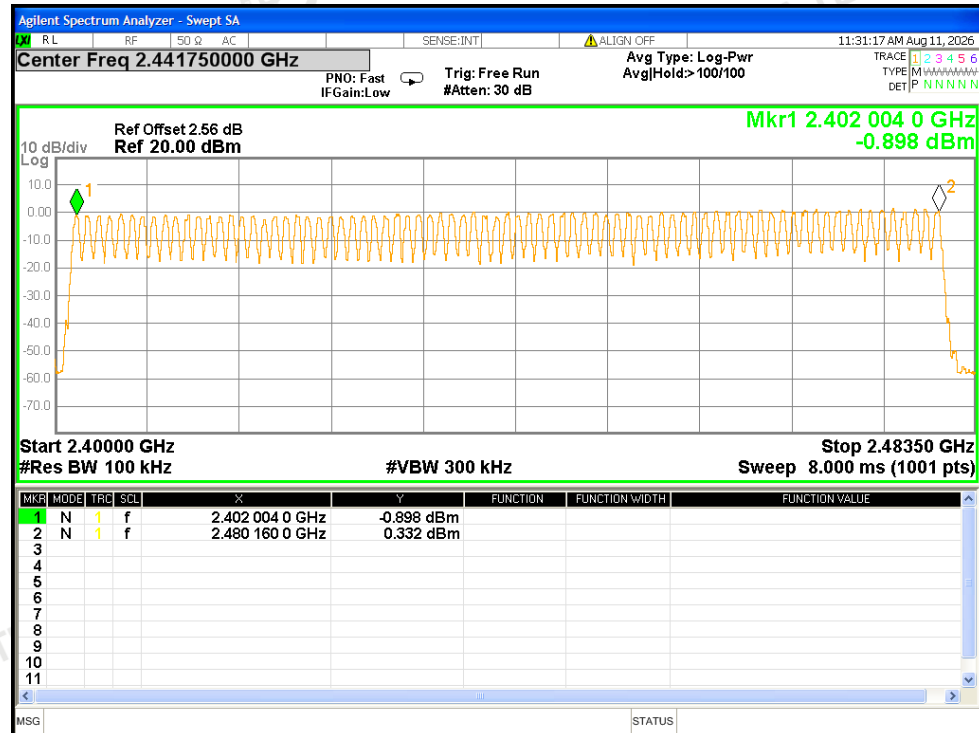


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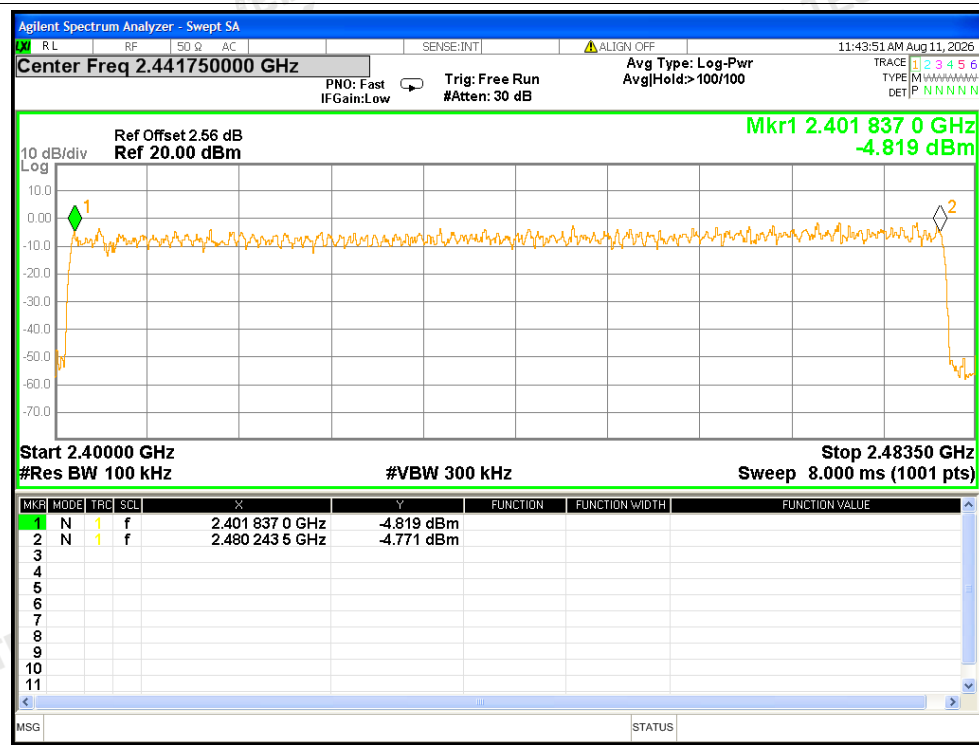
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Test Graphs

Hopping No. NVNT 1-DH5 Hopping



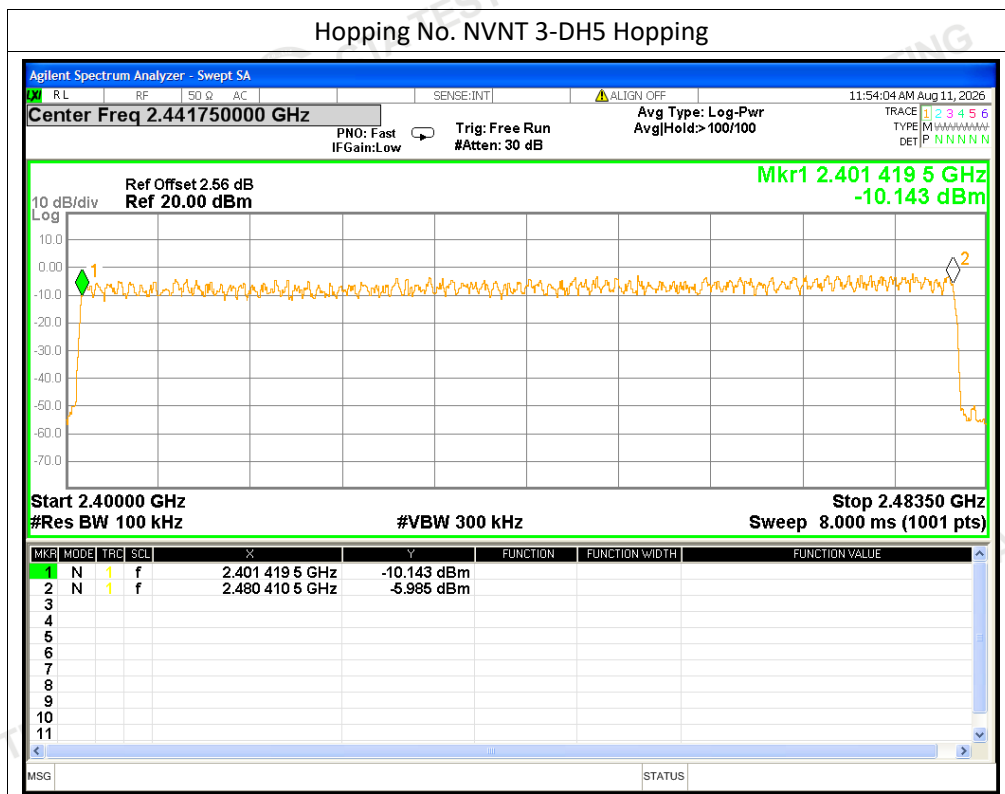
Hopping No. NVNT 2-DH5 Hopping





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Band Edge

Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	No-Hopping	-56.2	≤ -20	Pass
1-DH5	2480	No-Hopping	-45.13	≤ -20	Pass
2-DH5	2402	No-Hopping	-53	≤ -20	Pass
2-DH5	2480	No-Hopping	-51.46	≤ -20	Pass
3-DH5	2402	No-Hopping	-53.47	≤ -20	Pass
3-DH5	2480	No-Hopping	-49.94	≤ -20	Pass

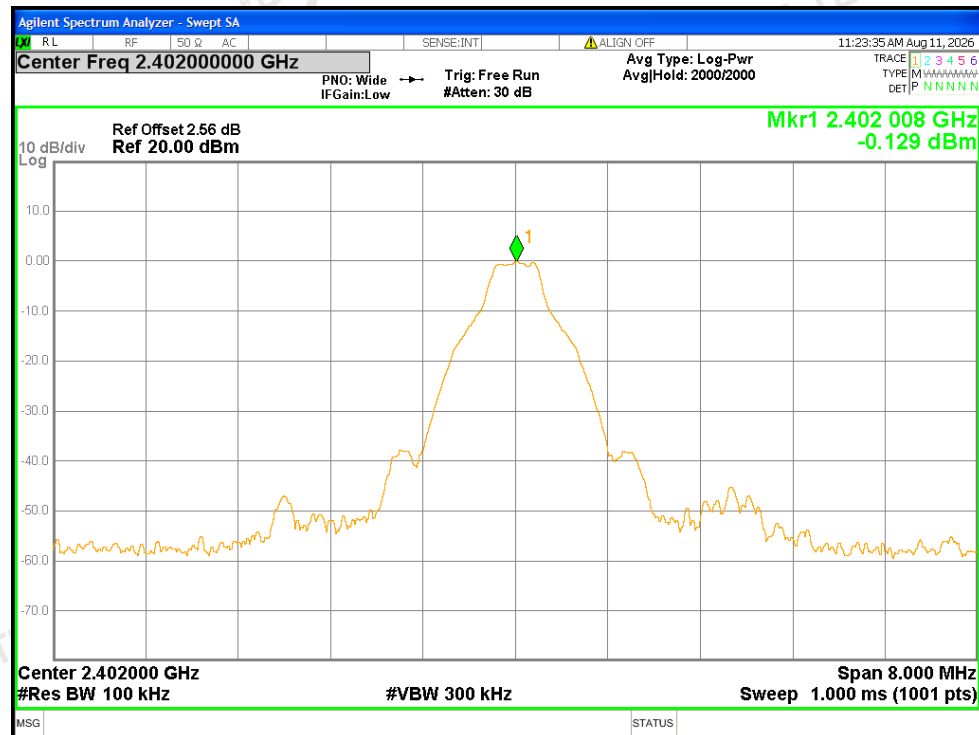


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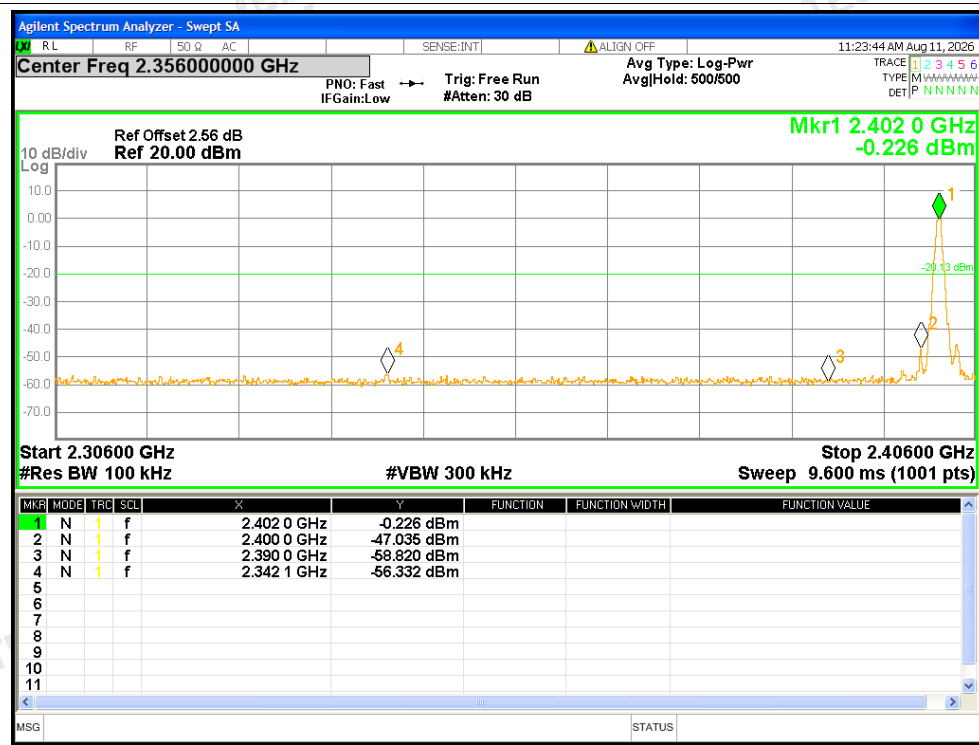
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Test Graphs

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



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

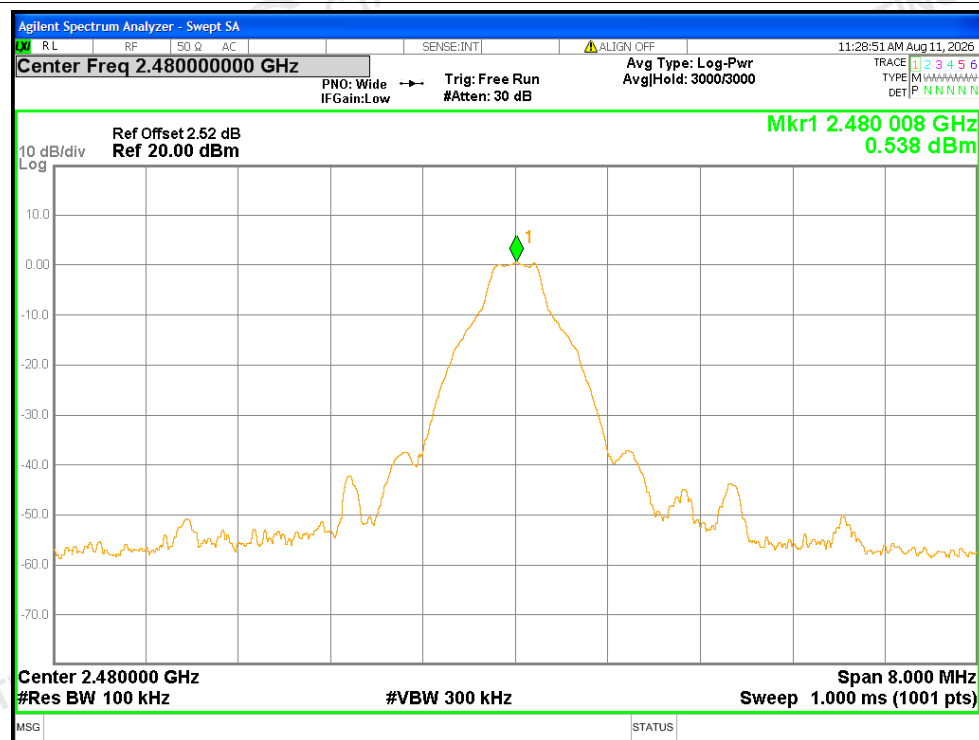




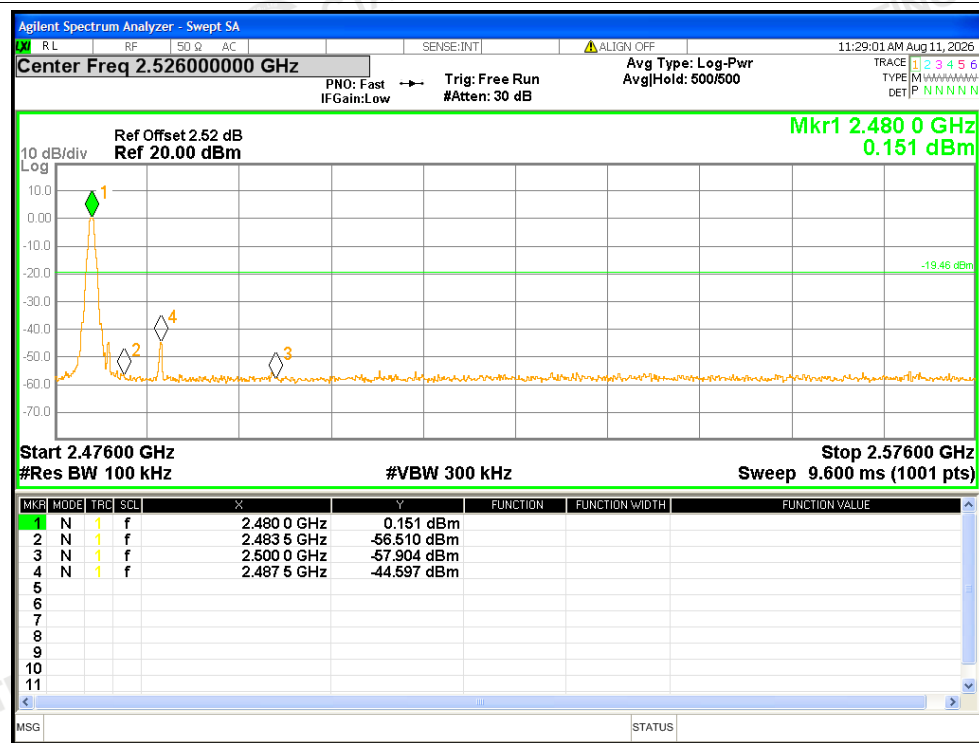
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Band Edge NVNT 1-DH5 2480MHz No-Hopping Ref



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

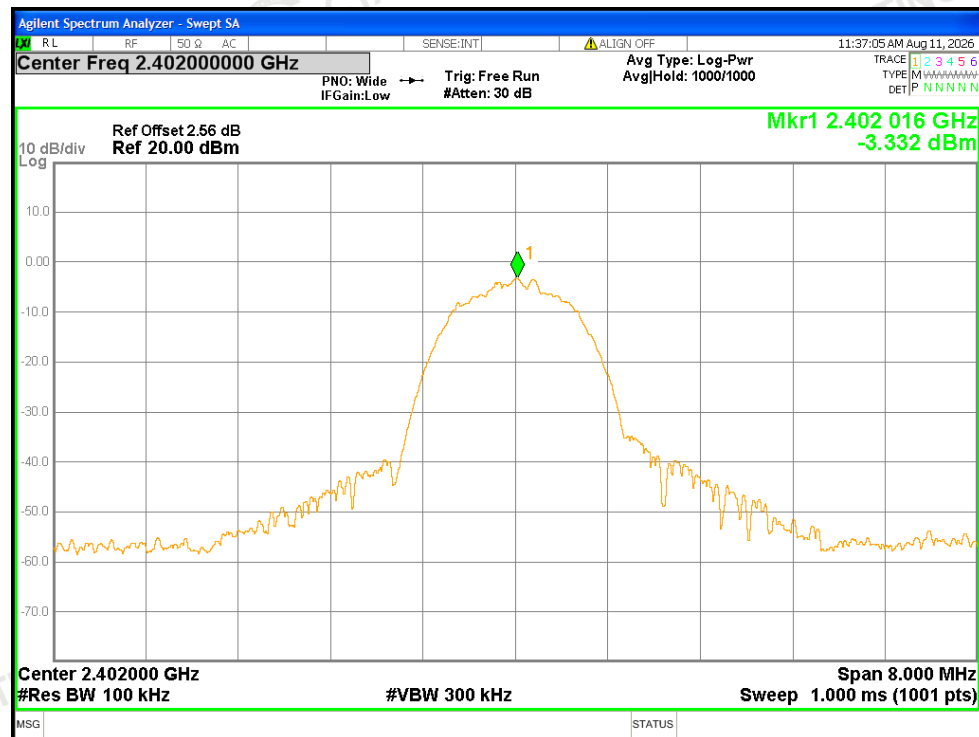




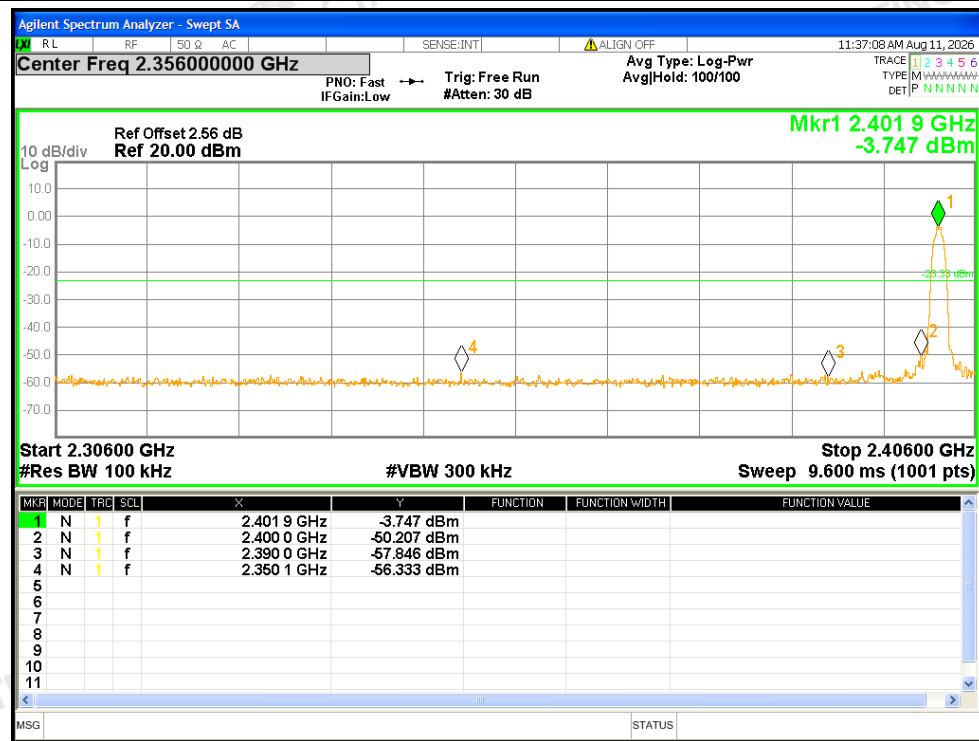
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Band Edge NVNT 2-DH5 2402MHz No-Hopping Ref



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

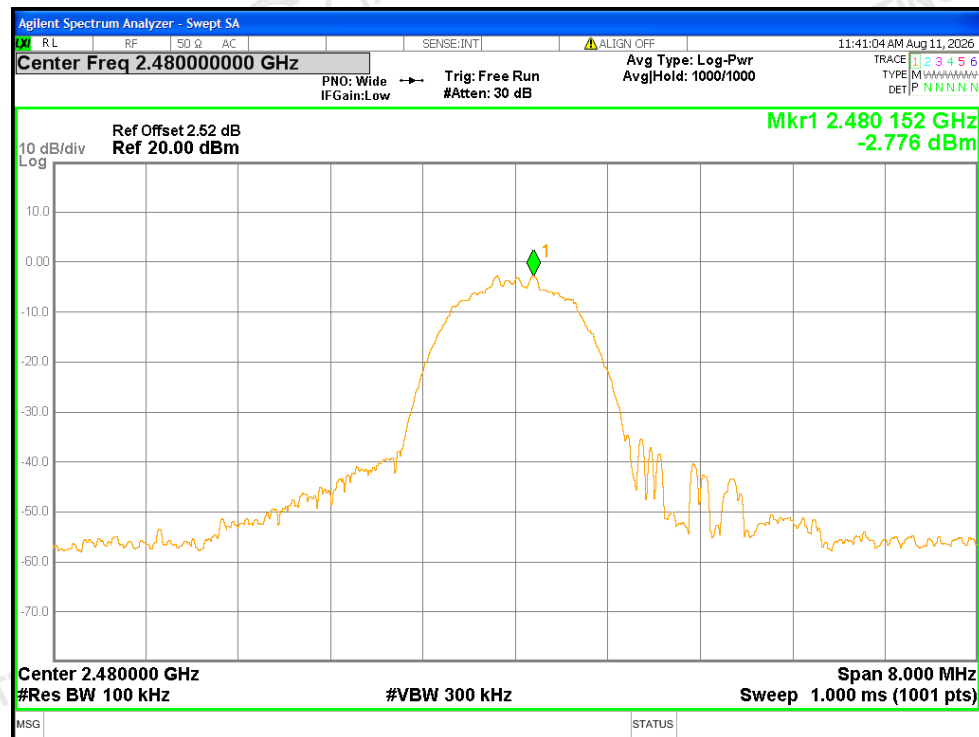




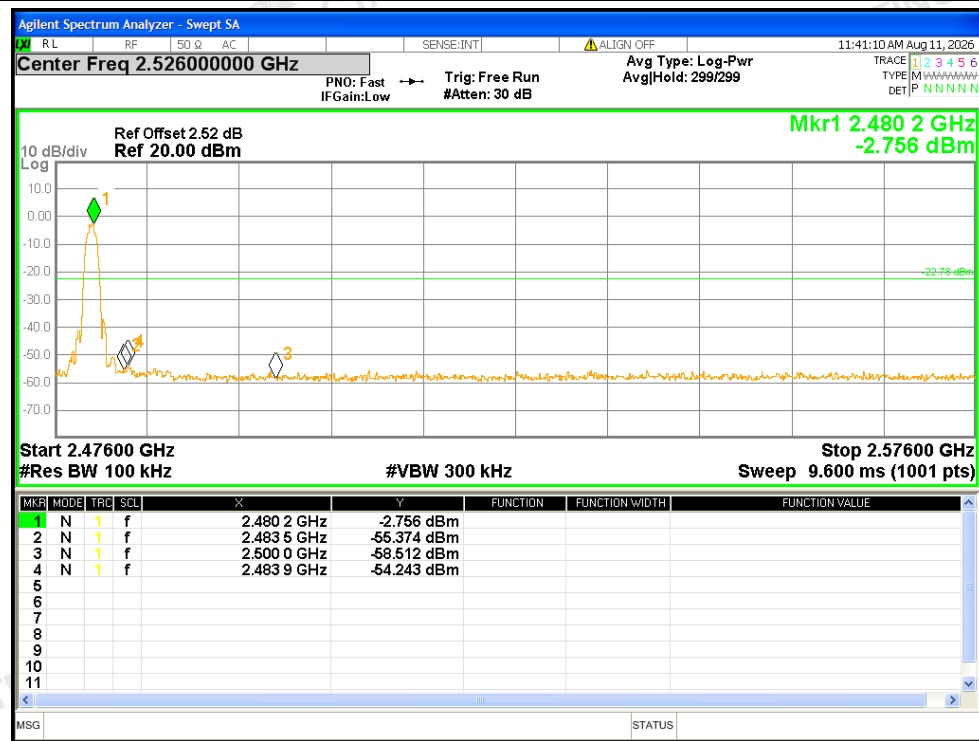
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Band Edge NVNT 2-DH5 2480MHz No-Hopping Ref



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

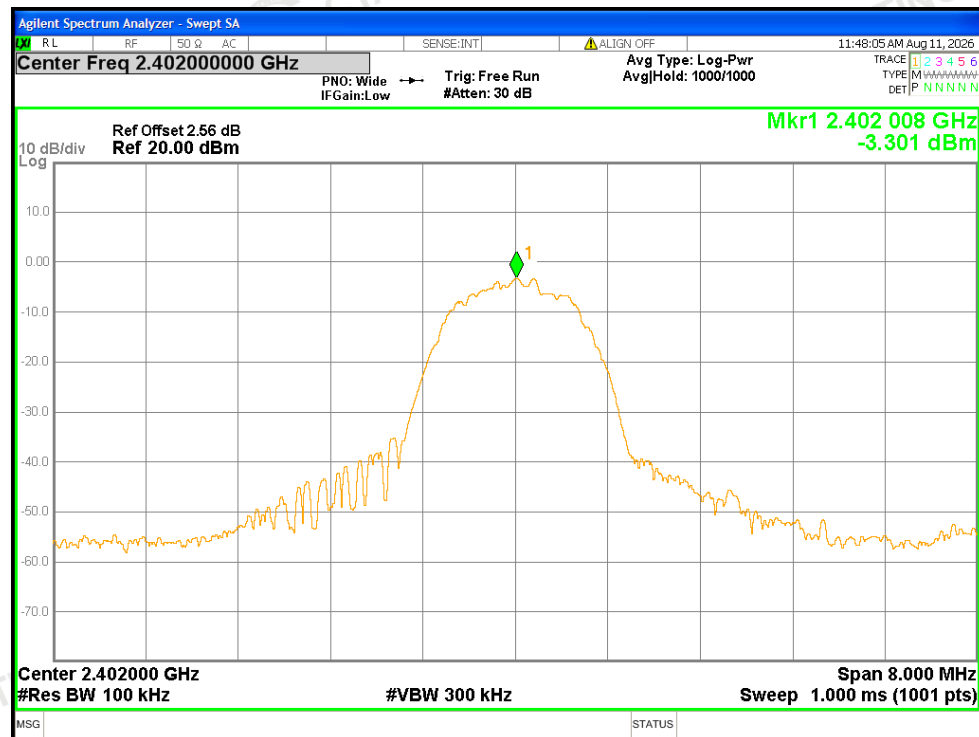




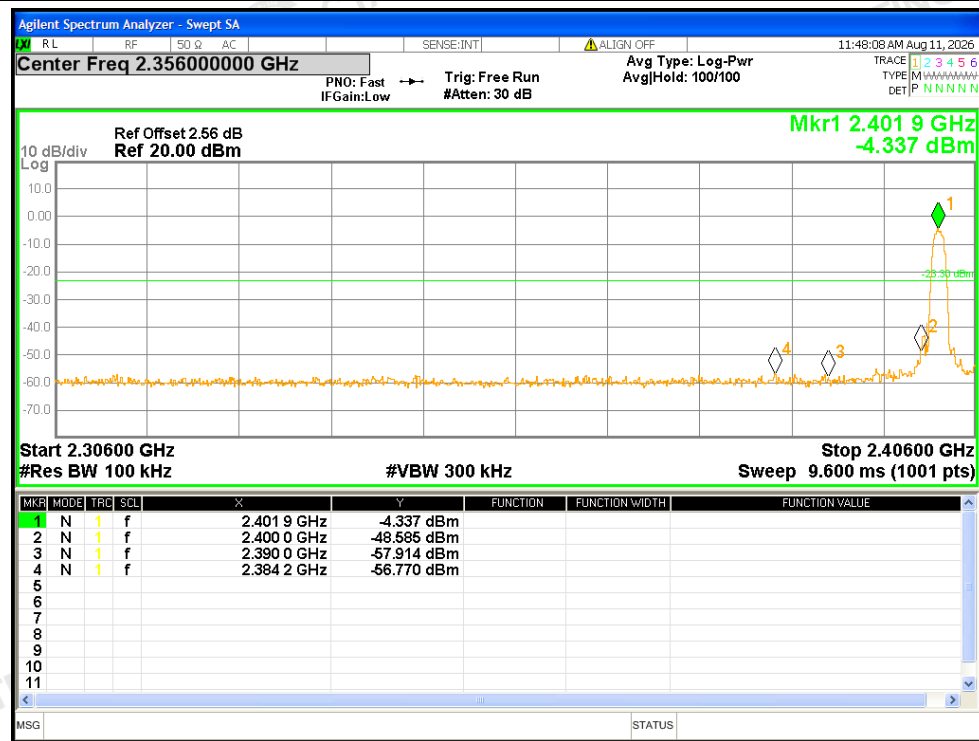
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Band Edge NVNT 3-DH5 2402MHz No-Hopping Ref



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

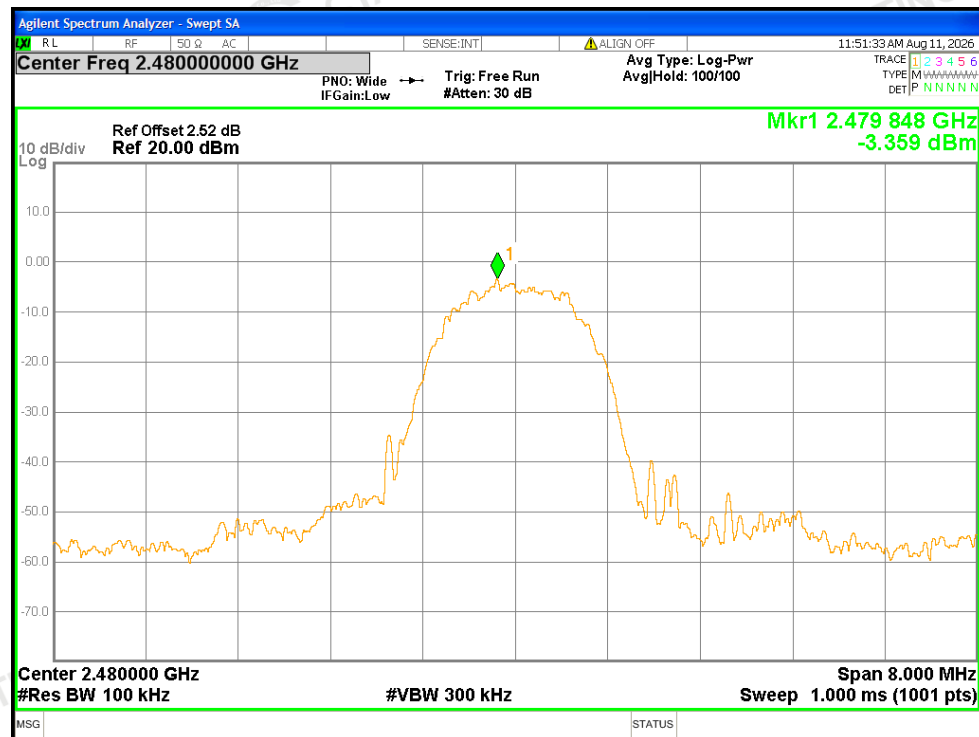




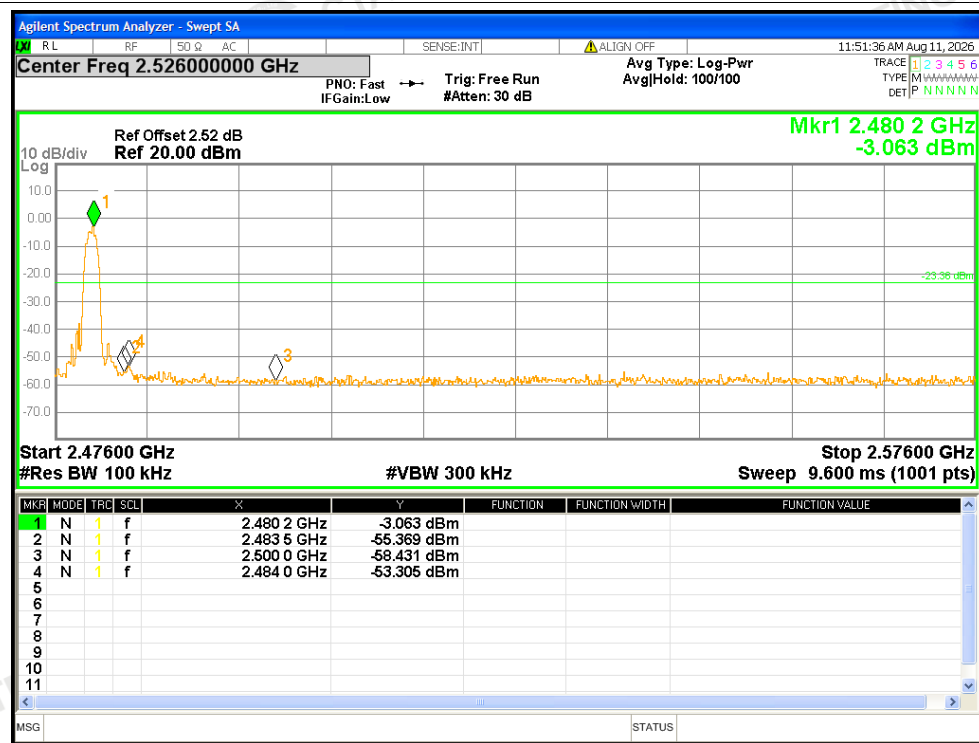
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Band Edge NVNT 3-DH5 2480MHz No-Hopping Ref



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





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Band Edge(Hopping)

Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	Hopping	-53.51	<=-20	Pass
1-DH5	2480	Hopping	-56.54	<=-20	Pass
2-DH5	2402	Hopping	-51.75	<=-20	Pass
2-DH5	2480	Hopping	-51.71	<=-20	Pass
3-DH5	2402	Hopping	-50.88	<=-20	Pass
3-DH5	2480	Hopping	-52.82	<=-20	Pass

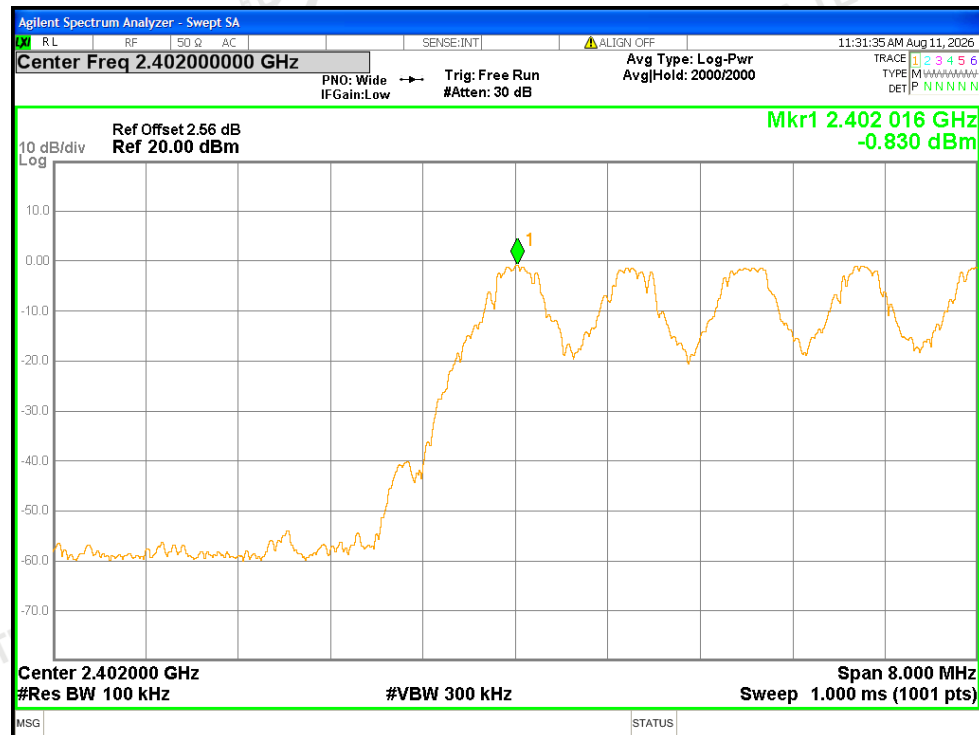


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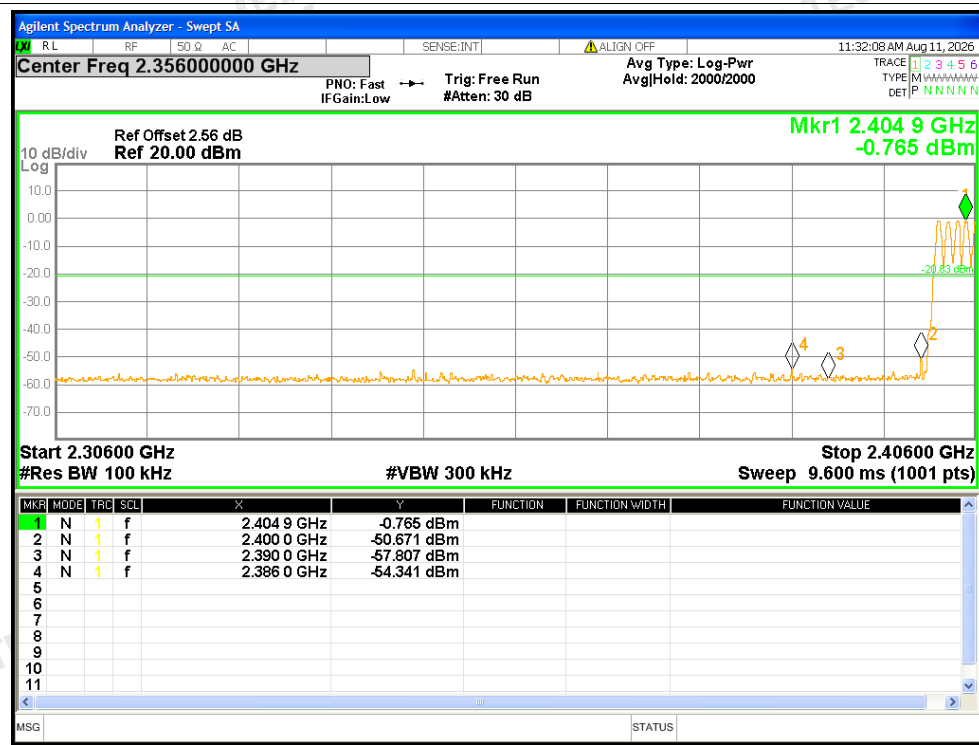
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Test Graphs

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



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

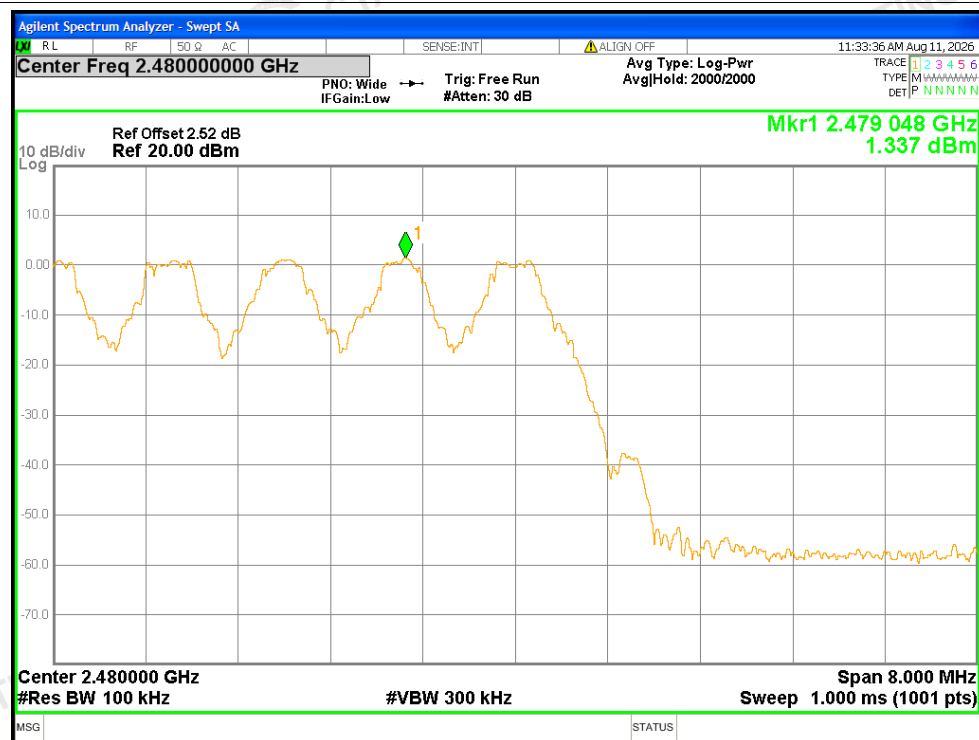




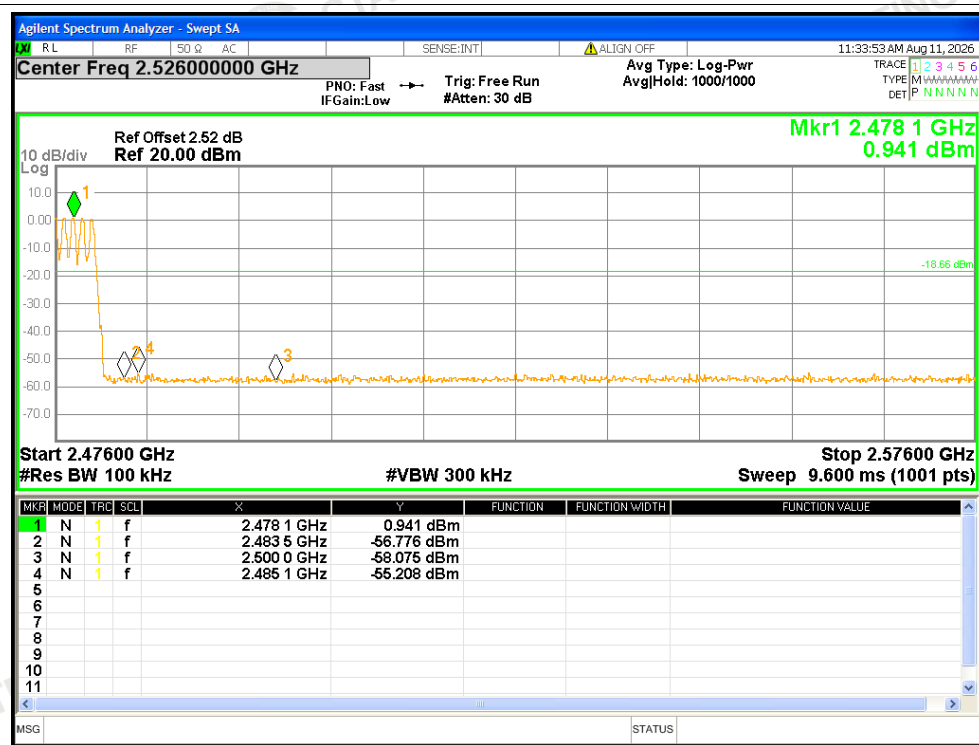
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Ref



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

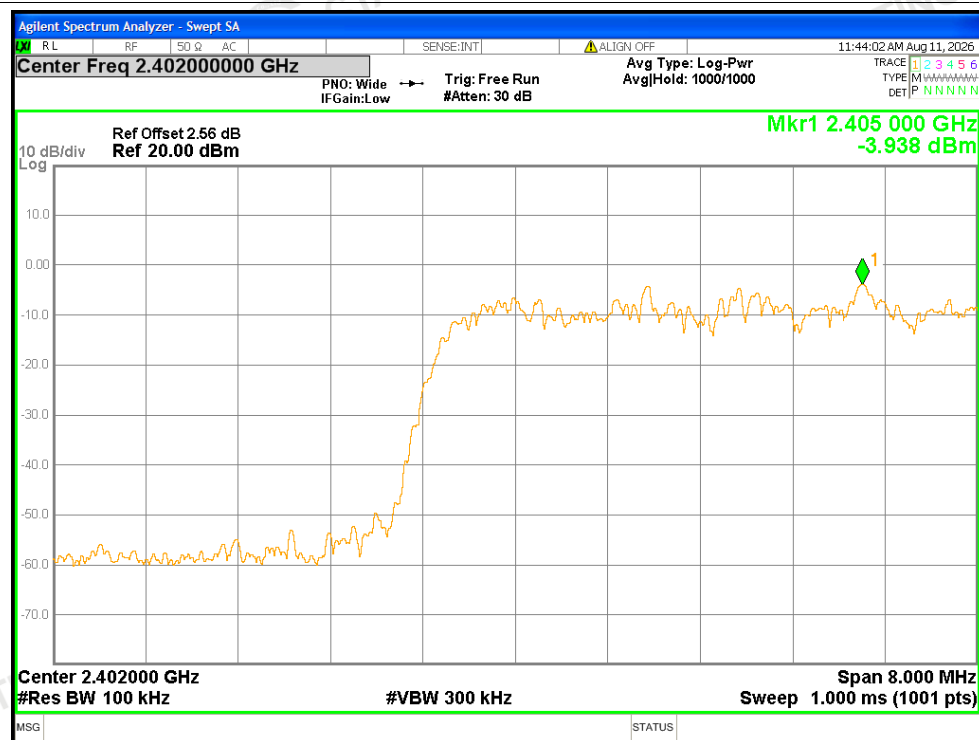




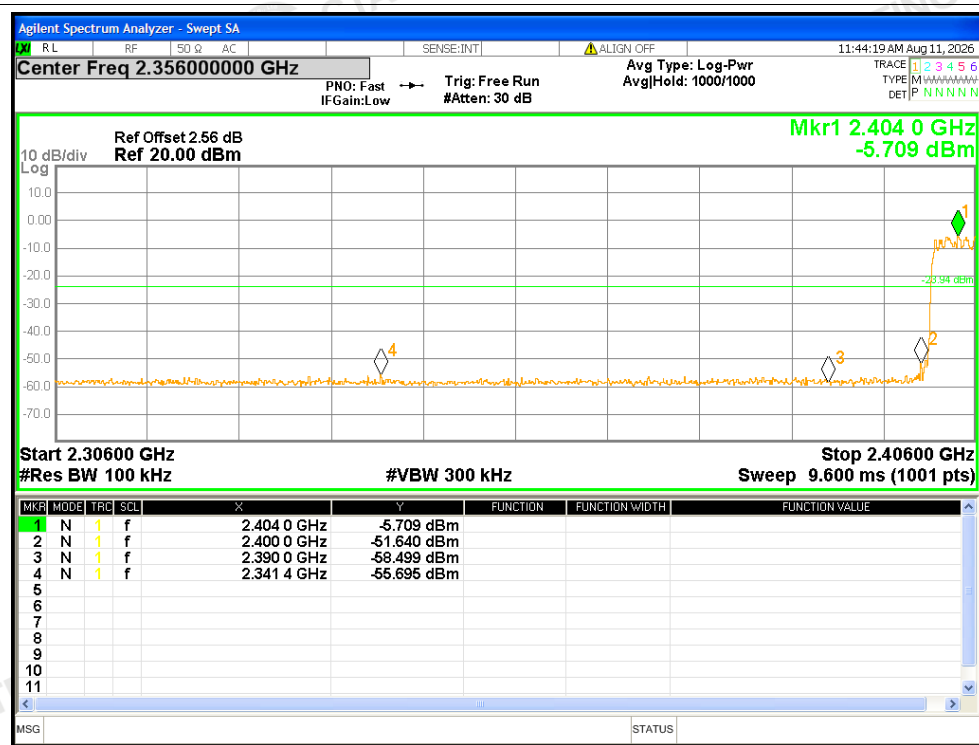
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Ref



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

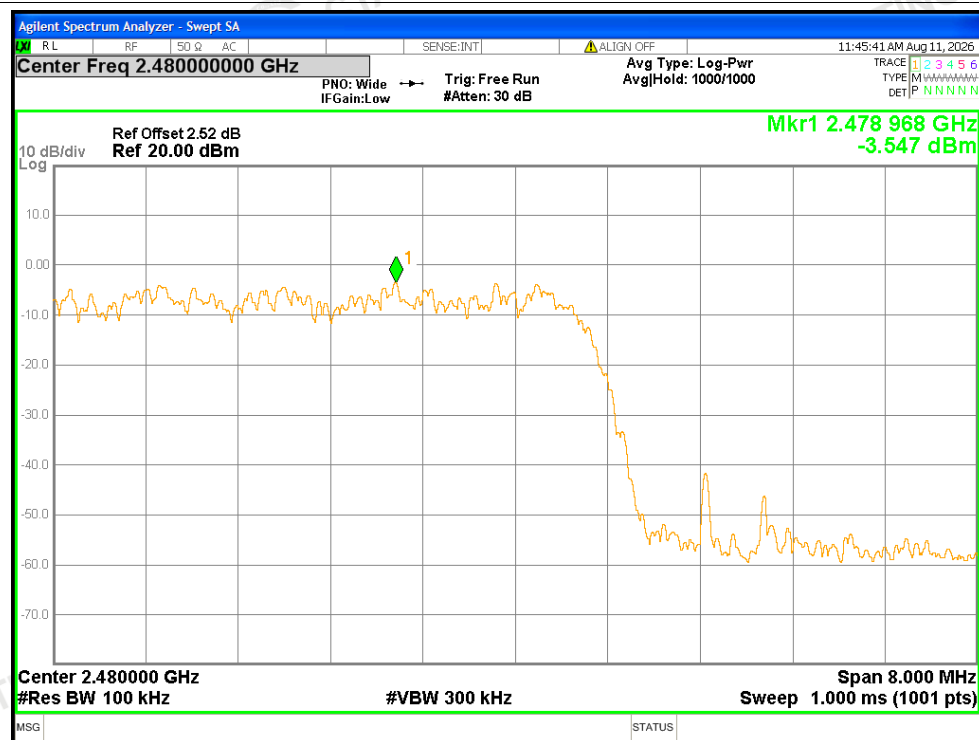




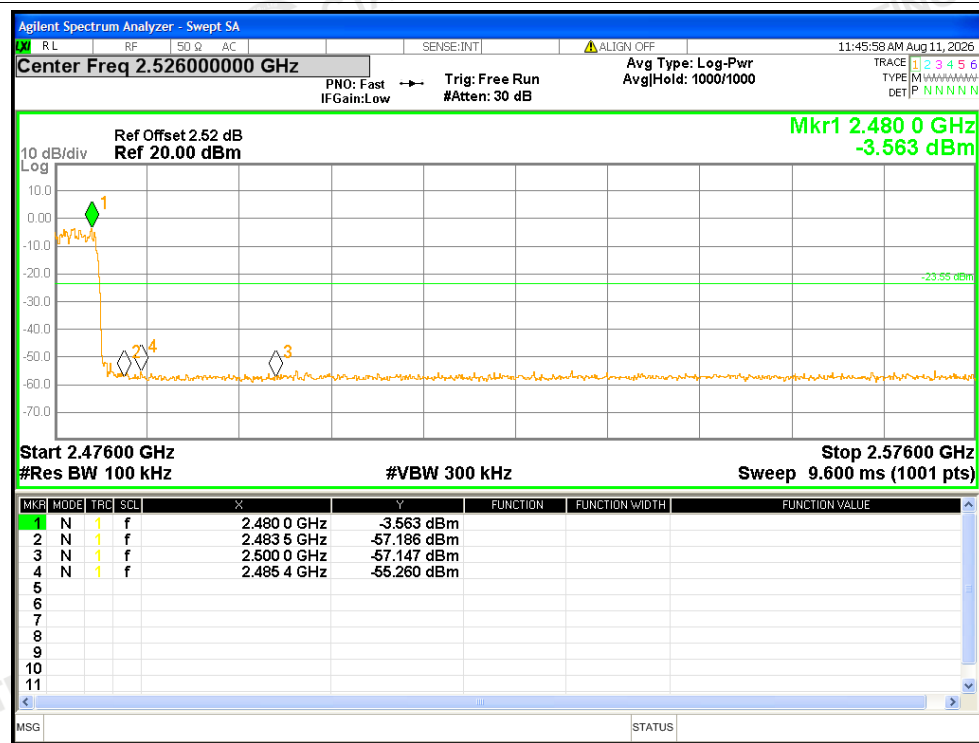
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Ref



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

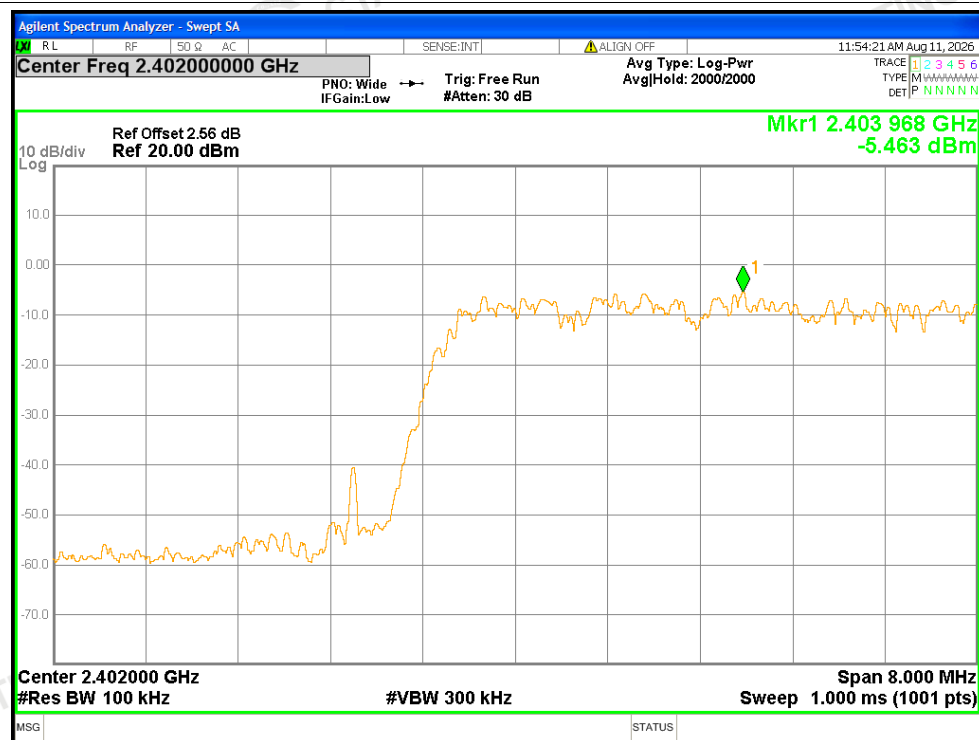




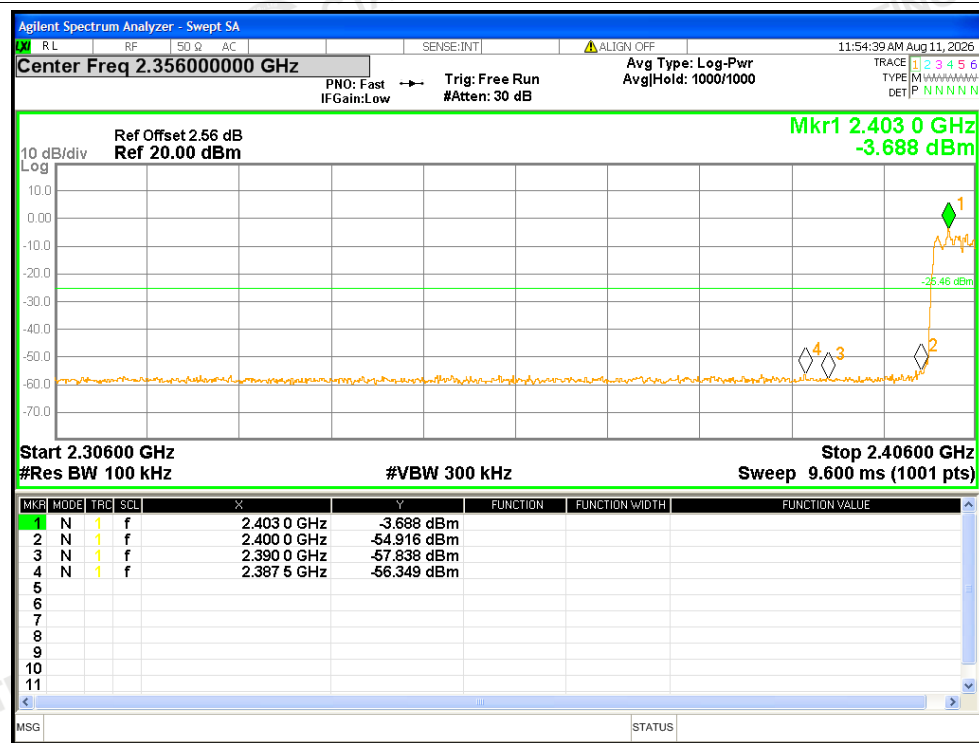
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Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Ref



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

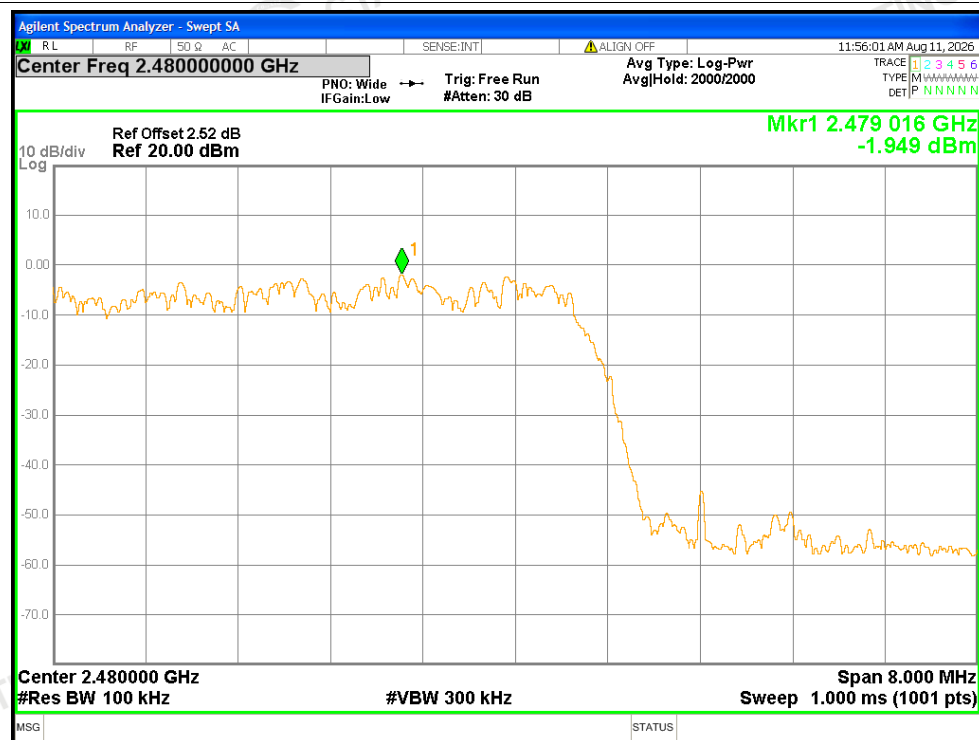




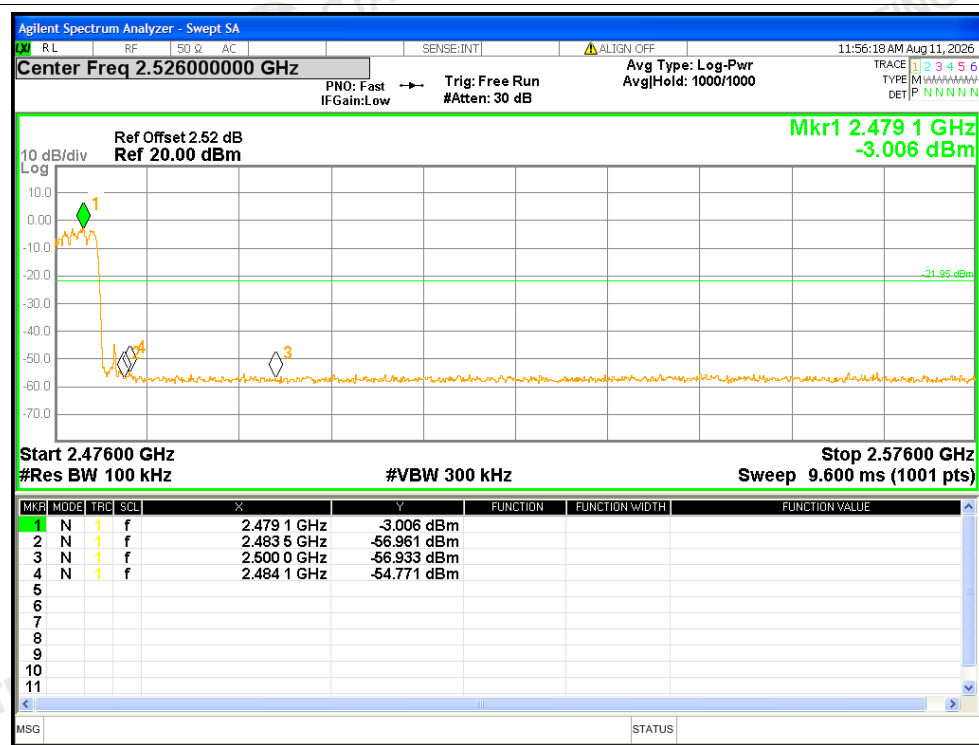
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Band Edge(Hopping) NVNT 3-DH5 2480MHz Hopping Ref



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





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Conducted RF Spurious Emission

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	-40.27	≤ -20	Pass
1-DH5	2441	-40.05	≤ -20	Pass
1-DH5	2480	-40.1	≤ -20	Pass
2-DH5	2402	-36.41	≤ -20	Pass
2-DH5	2441	-37.15	≤ -20	Pass
2-DH5	2480	-36.71	≤ -20	Pass
3-DH5	2402	-36.57	≤ -20	Pass
3-DH5	2441	-36.17	≤ -20	Pass
3-DH5	2480	-34.2	≤ -20	Pass

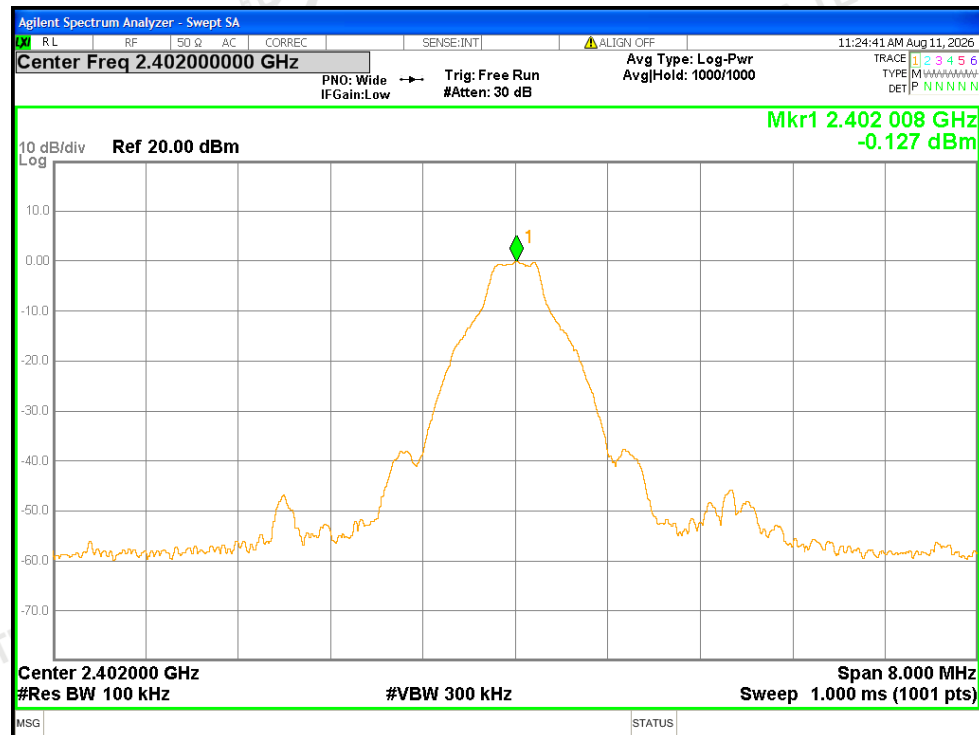


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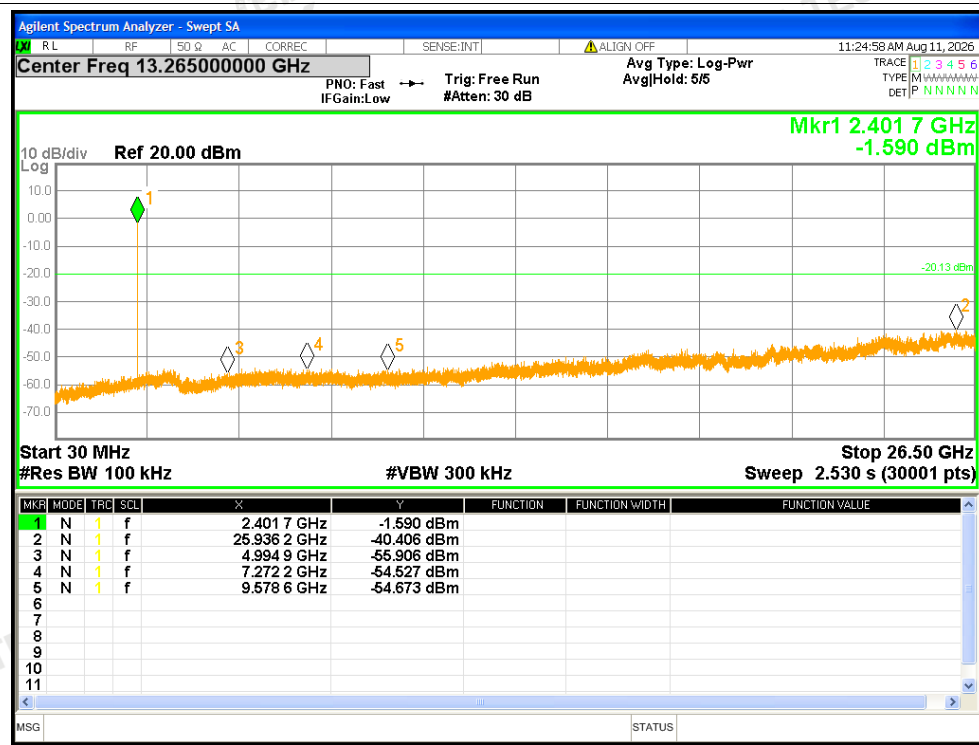
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Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ref



Tx. Spurious NVNT 1-DH5 2402MHz Emission

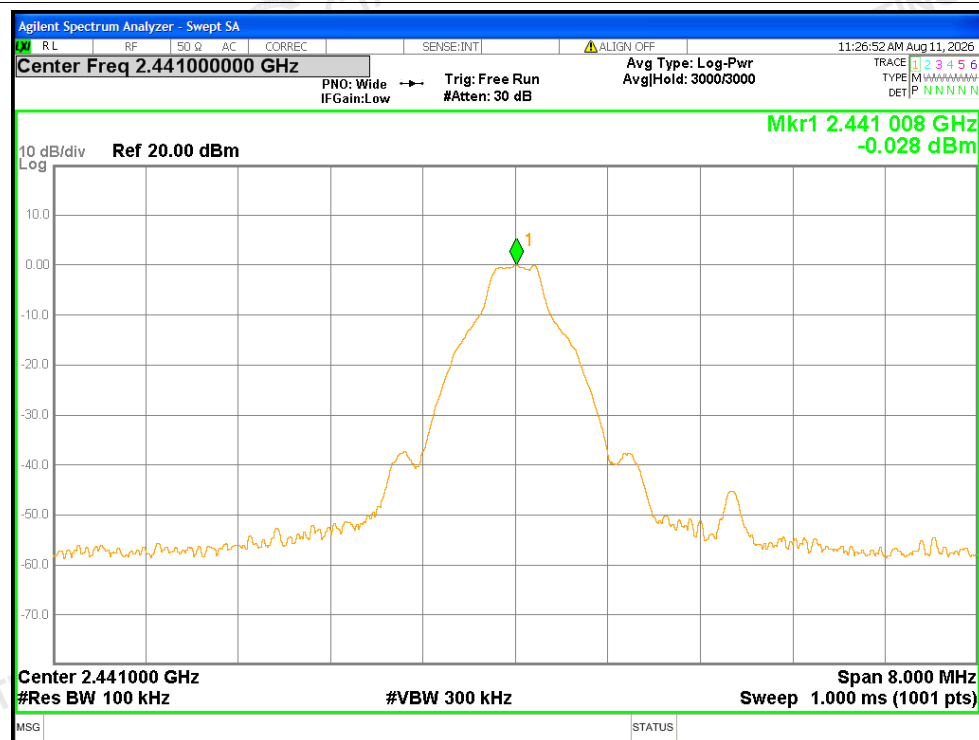




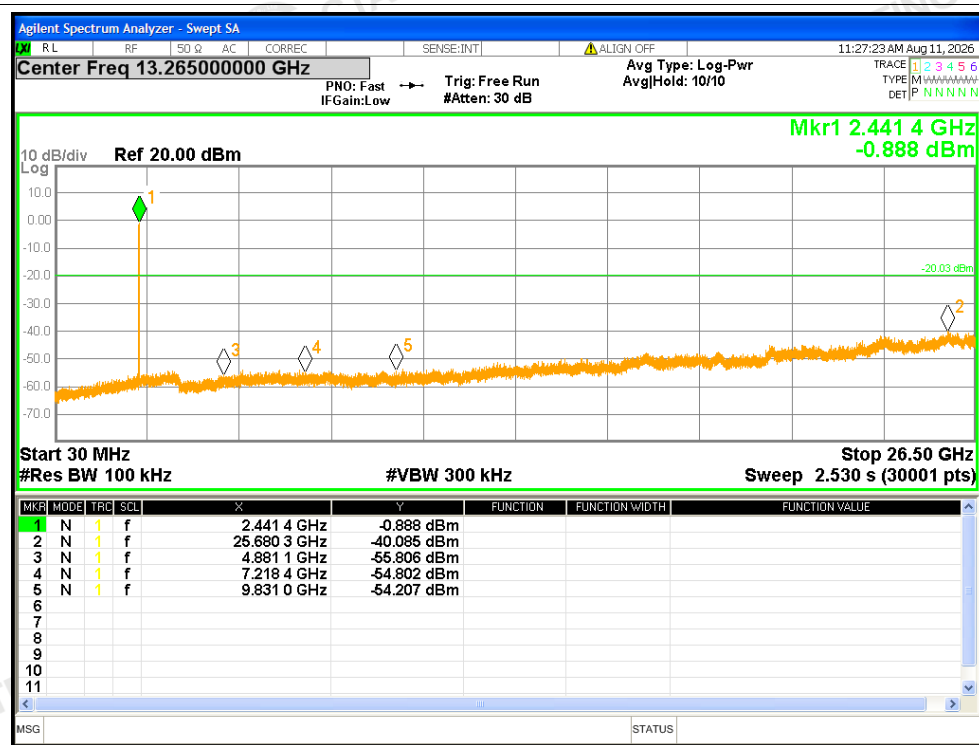
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Tx. Spurious NVNT 1-DH5 2441MHz Ref



Tx. Spurious NVNT 1-DH5 2441MHz Emission

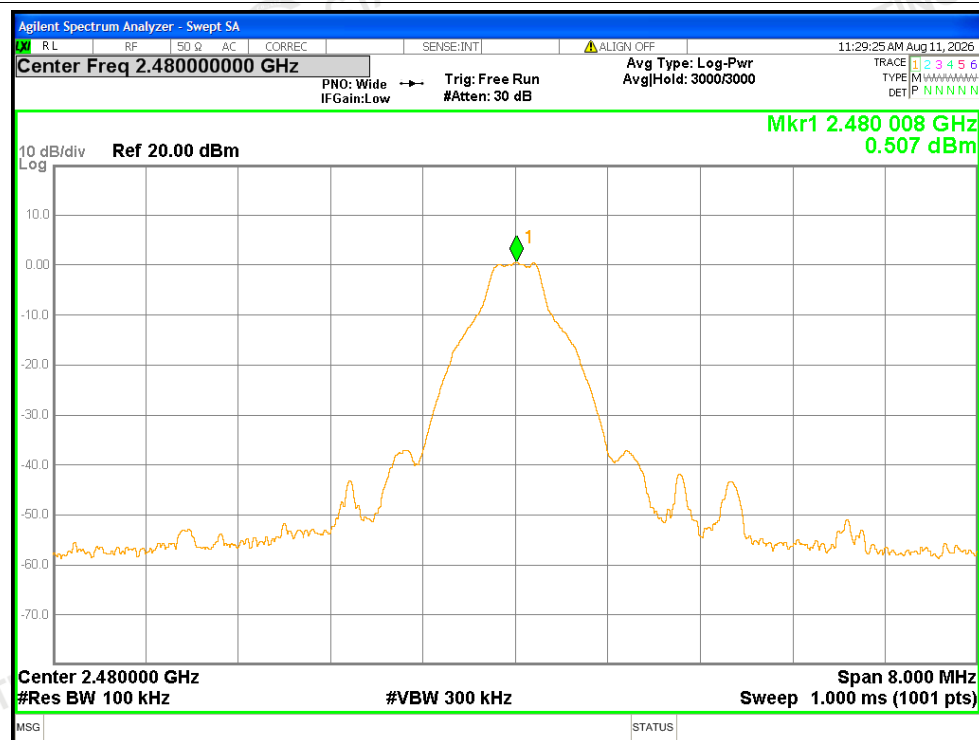




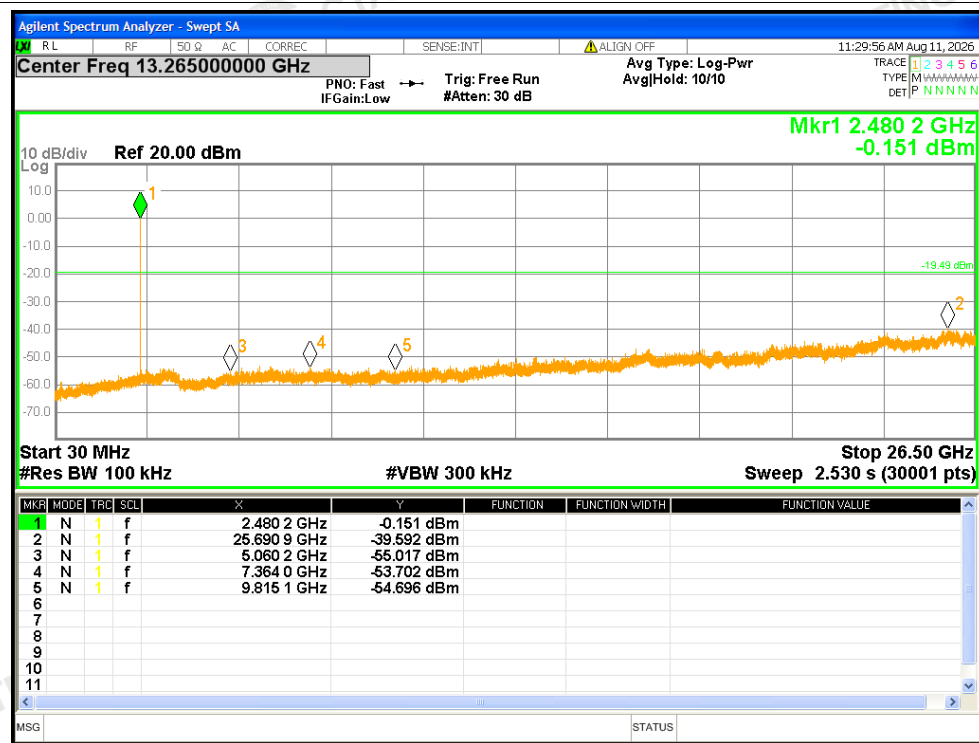
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Tx. Spurious NVNT 1-DH5 2480MHz Ref



Tx. Spurious NVNT 1-DH5 2480MHz Emission

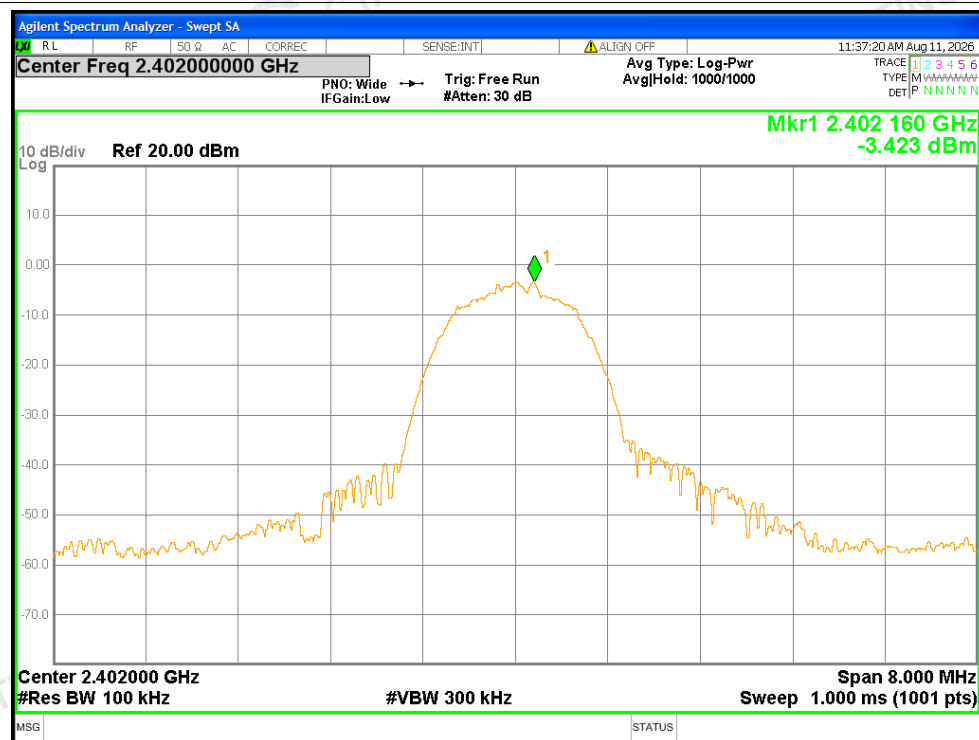




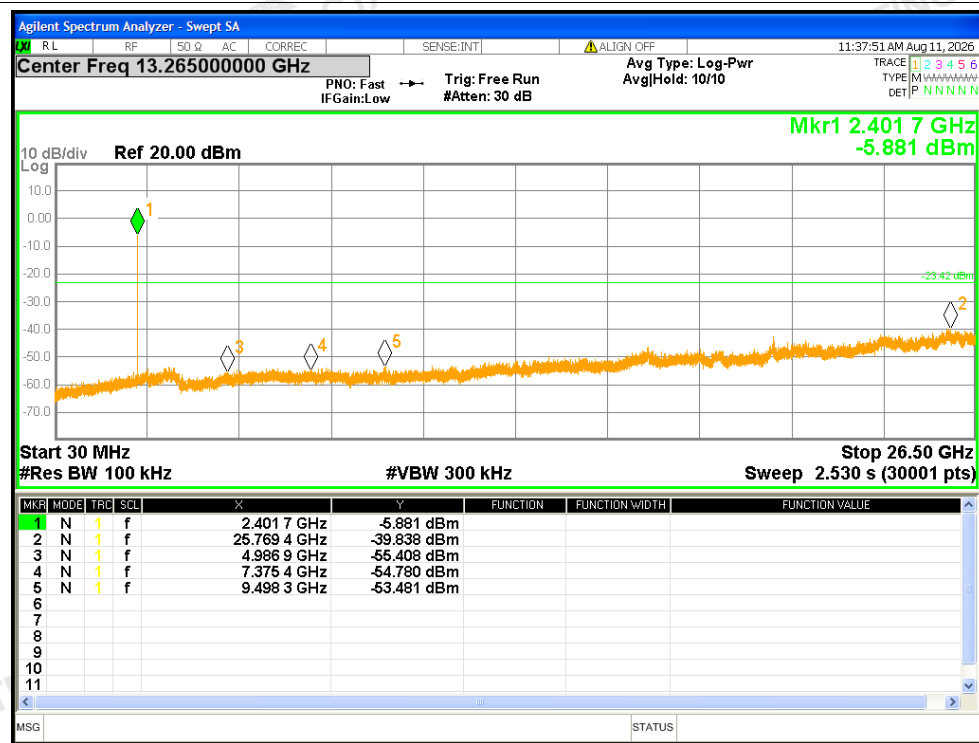
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Tx. Spurious NVNT 2-DH5 2402MHz Ref



Tx. Spurious NVNT 2-DH5 2402MHz Emission

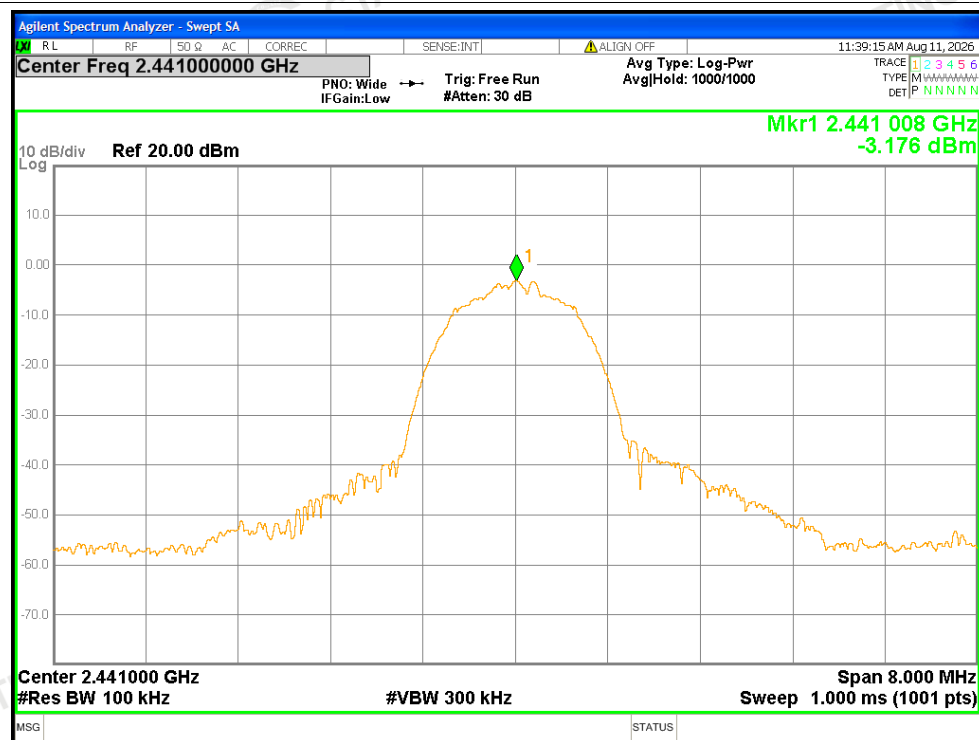




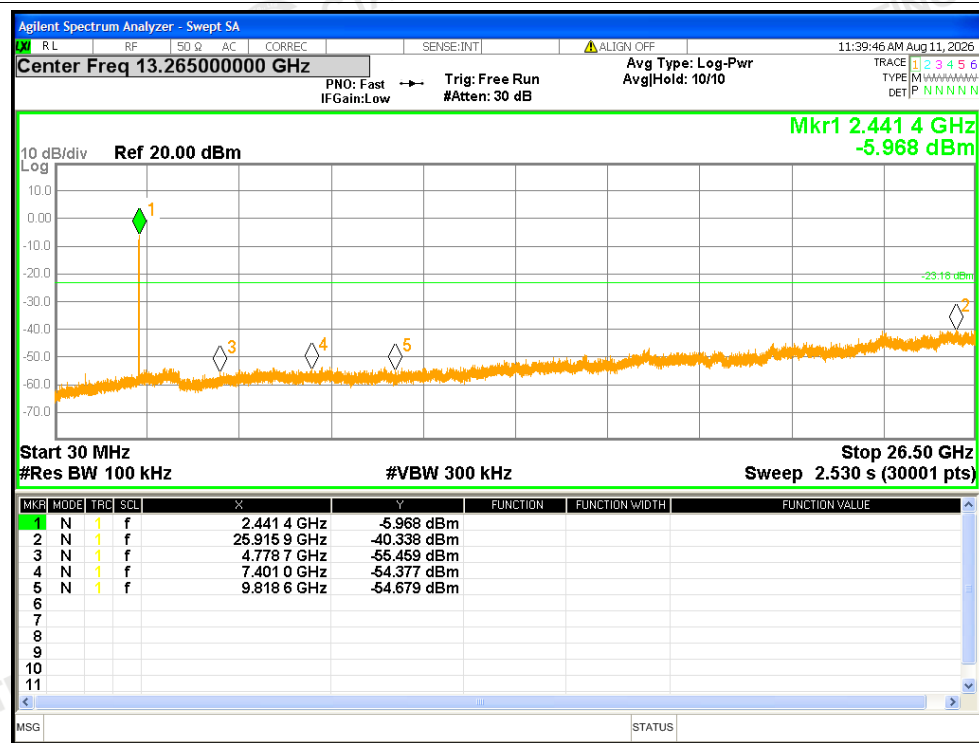
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Tx. Spurious NVNT 2-DH5 2441MHz Ref



Tx. Spurious NVNT 2-DH5 2441MHz Emission

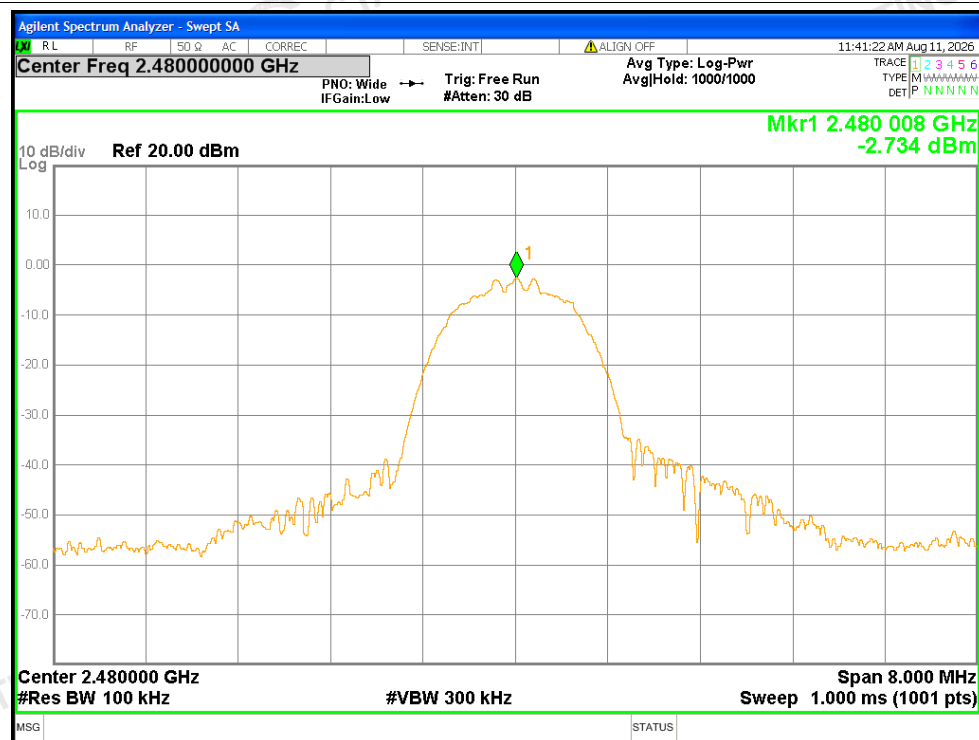




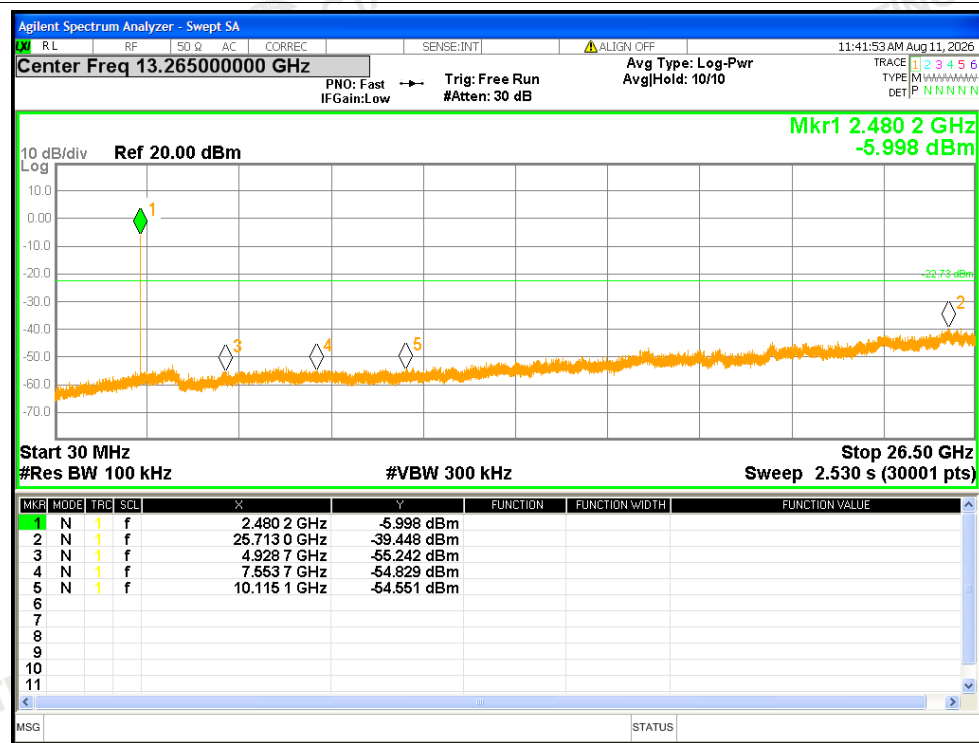
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Tx. Spurious NVNT 2-DH5 2480MHz Ref



Tx. Spurious NVNT 2-DH5 2480MHz Emission

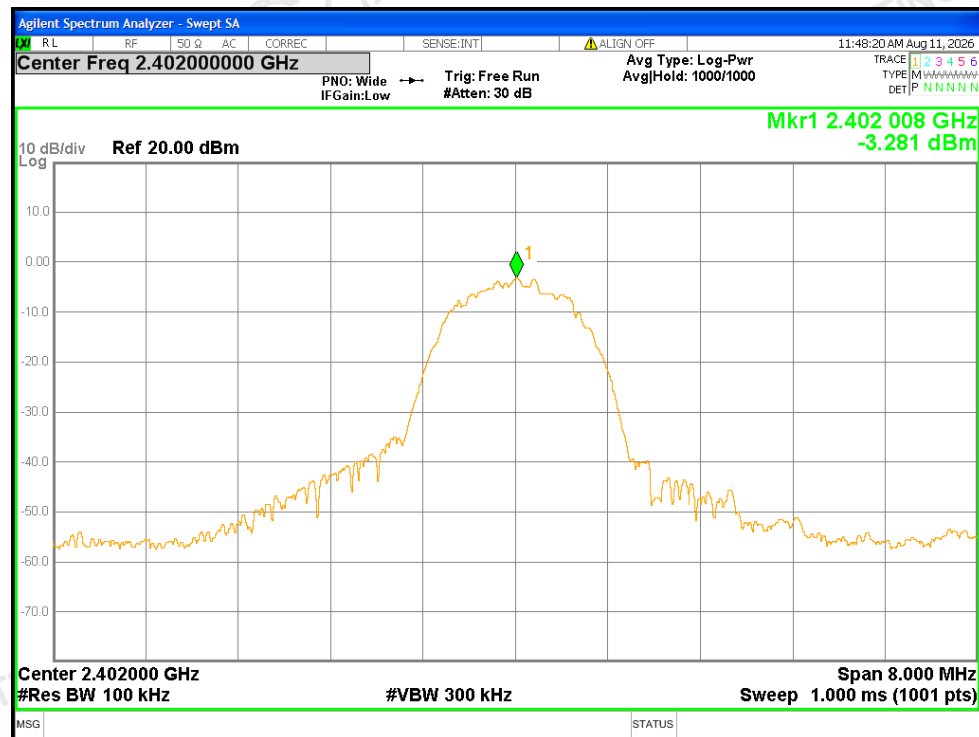




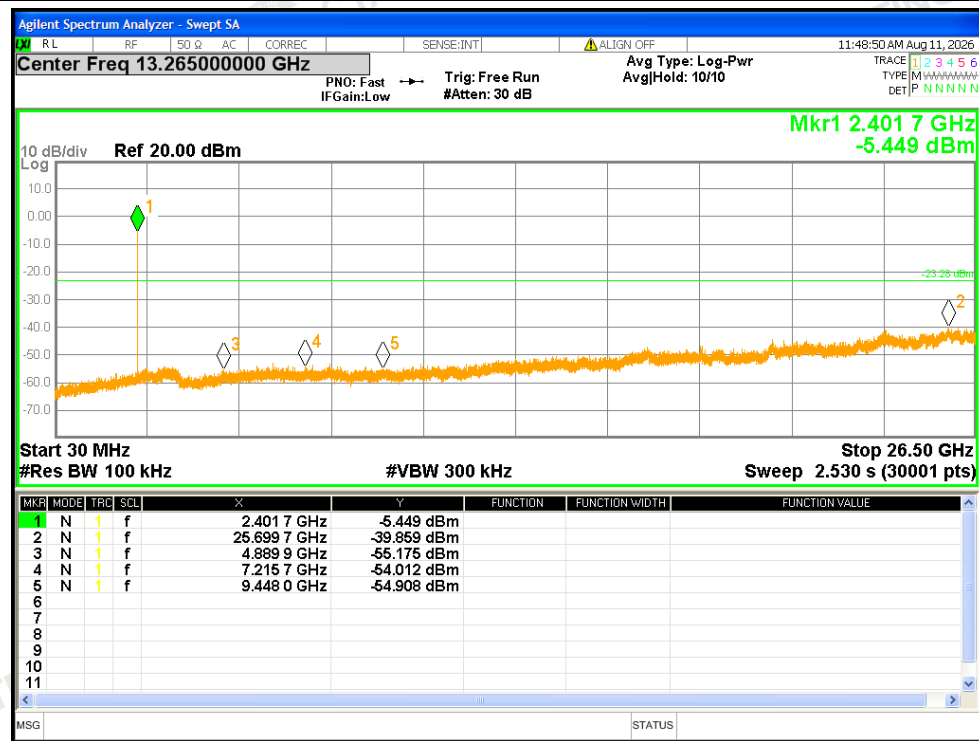
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Tx. Spurious NVNT 3-DH5 2402MHz Ref



Tx. Spurious NVNT 3-DH5 2402MHz Emission

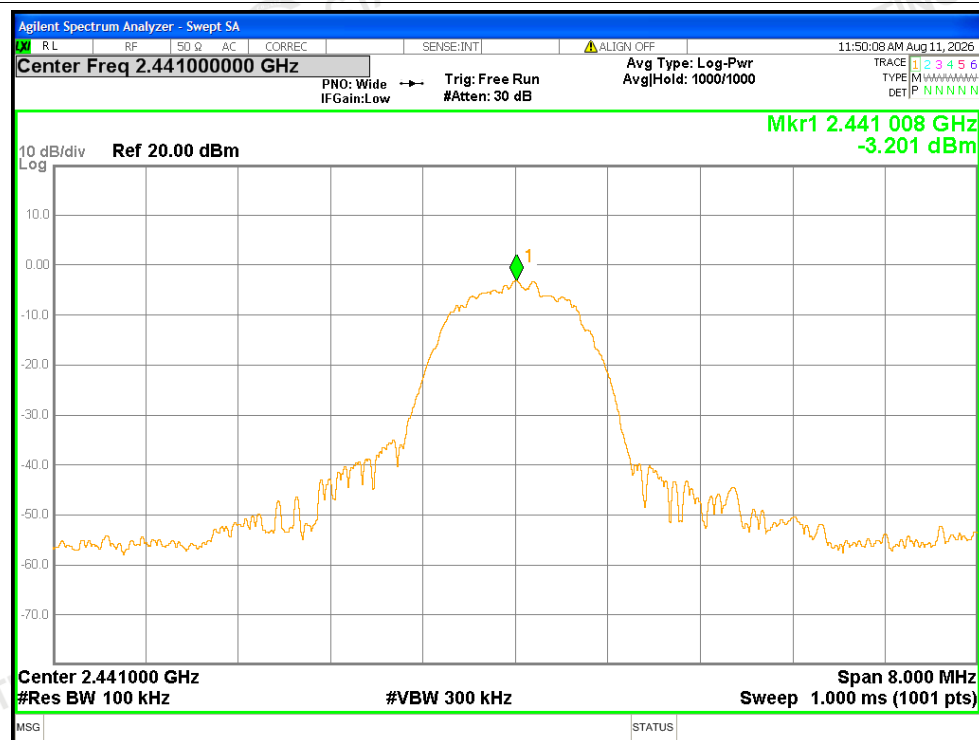




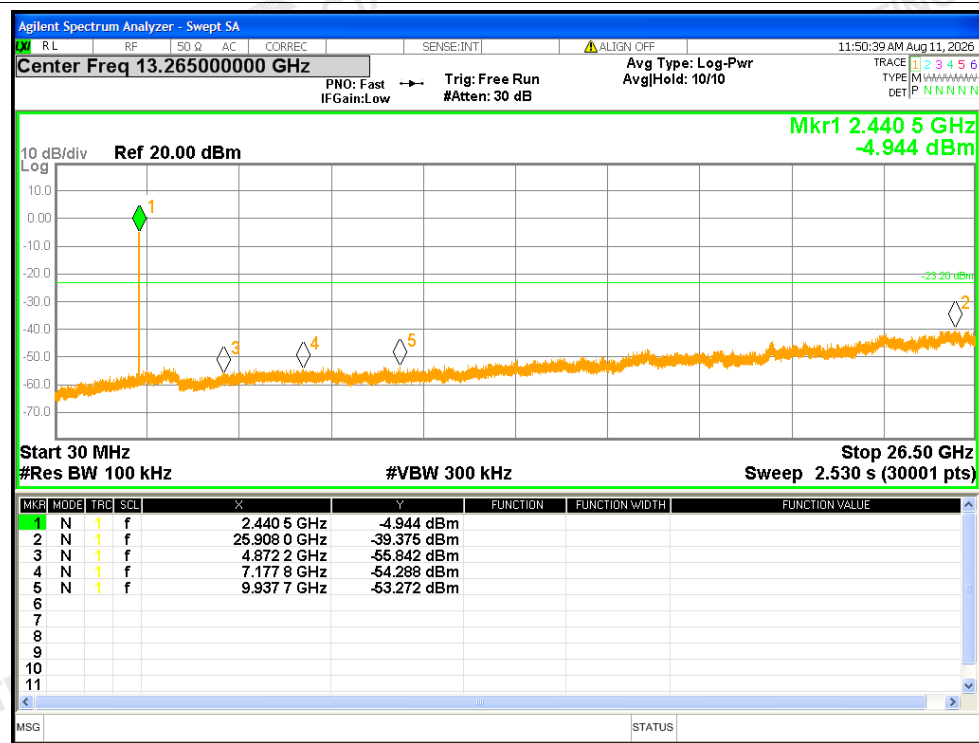
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Tx. Spurious NVNT 3-DH5 2441MHz Ref



Tx. Spurious NVNT 3-DH5 2441MHz Emission

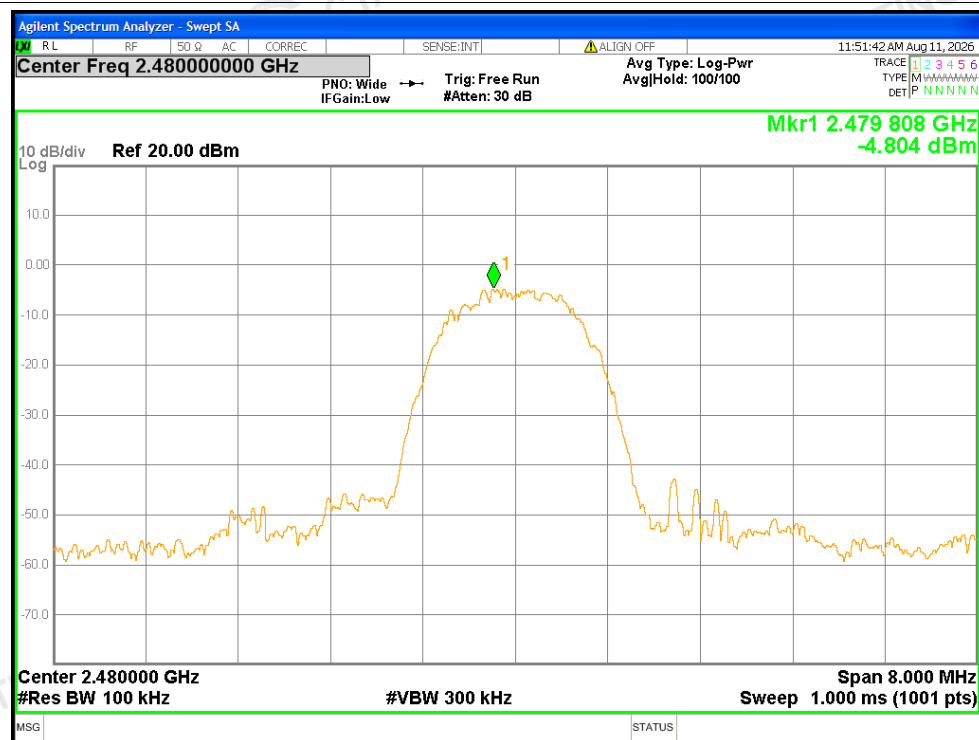




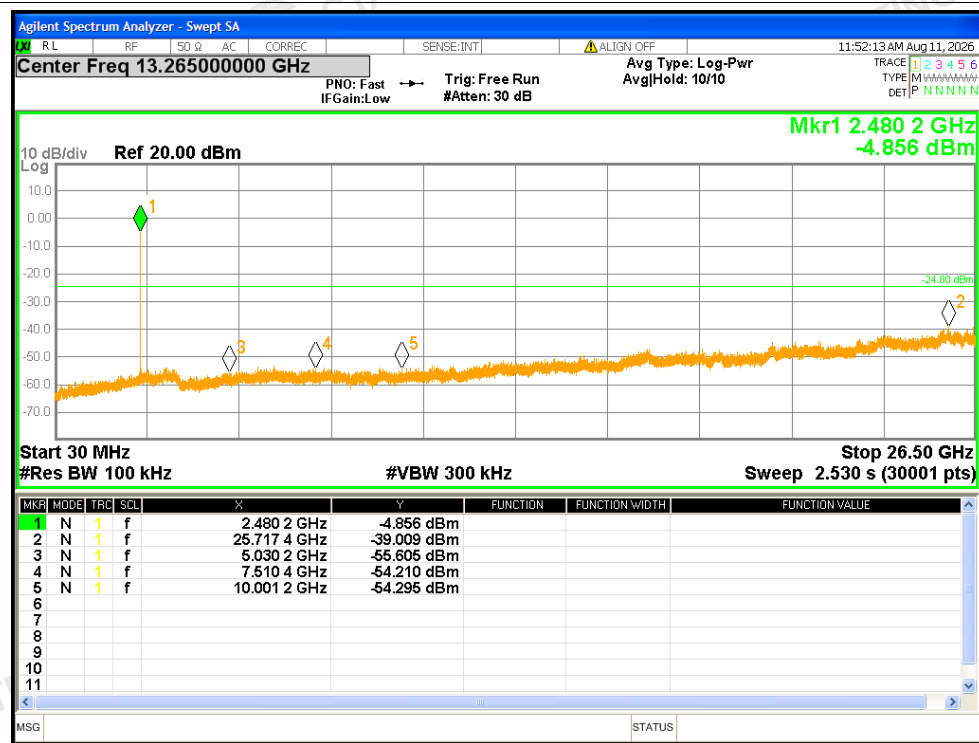
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Tx. Spurious NVNT 3-DH5 2480MHz Ref



Tx. Spurious NVNT 3-DH5 2480MHz Emission





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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	-50.81	2.7	0	47.15	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2310	-58	2.7	1.14	41.1	Average	<=54	Pass
1-DH5	2402	No-Hopping	2336.304	-47.26	2.7	0	50.7	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2341.968	-56.62	2.7	1.14	42.48	Average	<=54	Pass
1-DH5	2402	No-Hopping	2390	-50	2.7	0	47.96	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2390	-57.8	2.7	1.14	41.3	Average	<=54	Pass
1-DH5	2480	No-Hopping	2483.5	-49.93	2.7	0	48.03	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2483.5	-57.09	2.7	1.14	42.01	Average	<=54	Pass
1-DH5	2480	No-Hopping	2487.472	-41.71	2.7	0	56.25	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2486.968	-56.27	2.7	1.14	42.83	Average	<=54	Pass
1-DH5	2480	No-Hopping	2500	-49.78	2.7	0	48.18	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2500	-57.03	2.7	1.14	42.07	Average	<=54	Pass
2-DH5	2402	No-Hopping	2310	-50.23	2.7	0	47.73	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2310	-59.05	2.7	1.13	40.04	Average	<=54	Pass
2-DH5	2402	No-Hopping	2375.376	-47.03	2.7	0	50.93	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2386.704	-57.33	2.7	1.13	41.76	Average	<=54	Pass
2-DH5	2402	No-Hopping	2390	-49.92	2.7	0	48.04	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2390	-58.15	2.7	1.13	40.94	Average	<=54	Pass
2-DH5	2480	No-Hopping	2483.5	-46.86	2.7	0	51.1	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2483.5	-55.28	2.7	1.13	43.81	Average	<=54	Pass
2-DH5	2480	No-Hopping	2487.472	-41.58	2.7	0	56.38	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2483.656	-55.12	2.7	1.13	43.97	Average	<=54	Pass
2-DH5	2480	No-Hopping	2500	-48.9	2.7	0	49.06	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2500	-56.64	2.7	1.13	42.45	Average	<=54	Pass
3-DH5	2402	No-Hopping	2310	-50.55	2.7	0	47.41	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2310	-58.12	2.7	1.12	40.96	Average	<=54	Pass
3-DH5	2402	No-Hopping	2342.256	-47.06	2.7	0	50.9	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2389.104	-57.17	2.7	1.12	41.91	Average	<=54	Pass
3-DH5	2402	No-Hopping	2390	-49.35	2.7	0	48.61	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2390	-58.16	2.7	1.12	40.92	Average	<=54	Pass
3-DH5	2480	No-Hopping	2483.5	-45.41	2.7	0	52.55	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2483.5	-54.28	2.7	1.13	44.81	Average	<=54	Pass
3-DH5	2480	No-Hopping	2484.376	-43.9	2.7	0	54.06	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2483.848	-53.88	2.7	1.13	45.21	Average	<=54	Pass
3-DH5	2480	No-Hopping	2500	-47.7	2.7	0	50.26	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2500	-57.95	2.7	1.13	41.14	Average	<=54	Pass

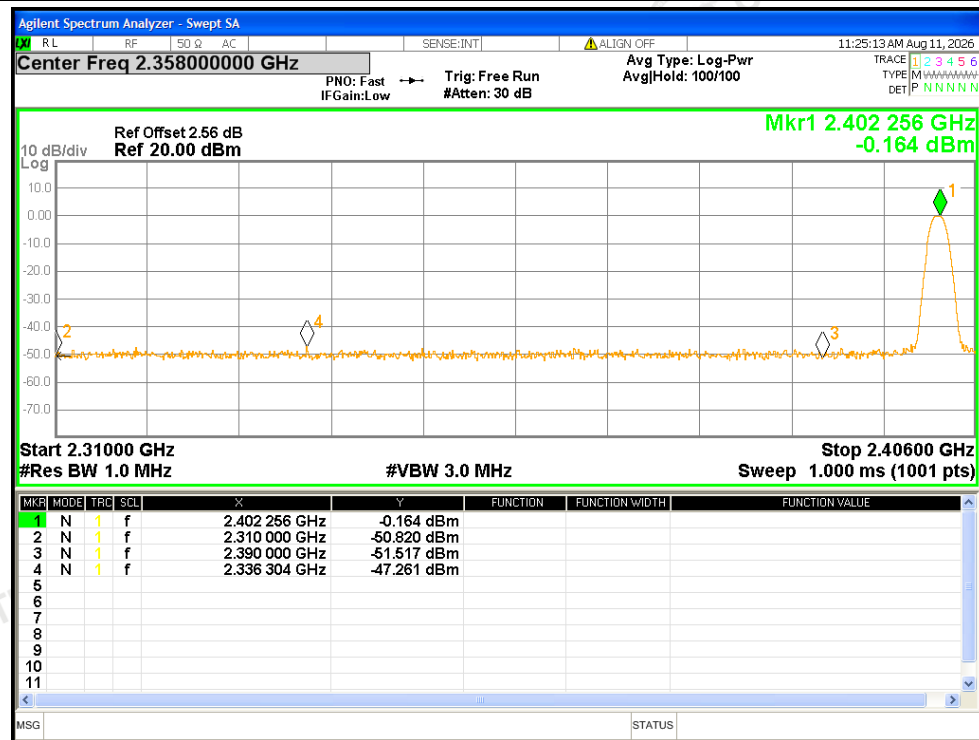


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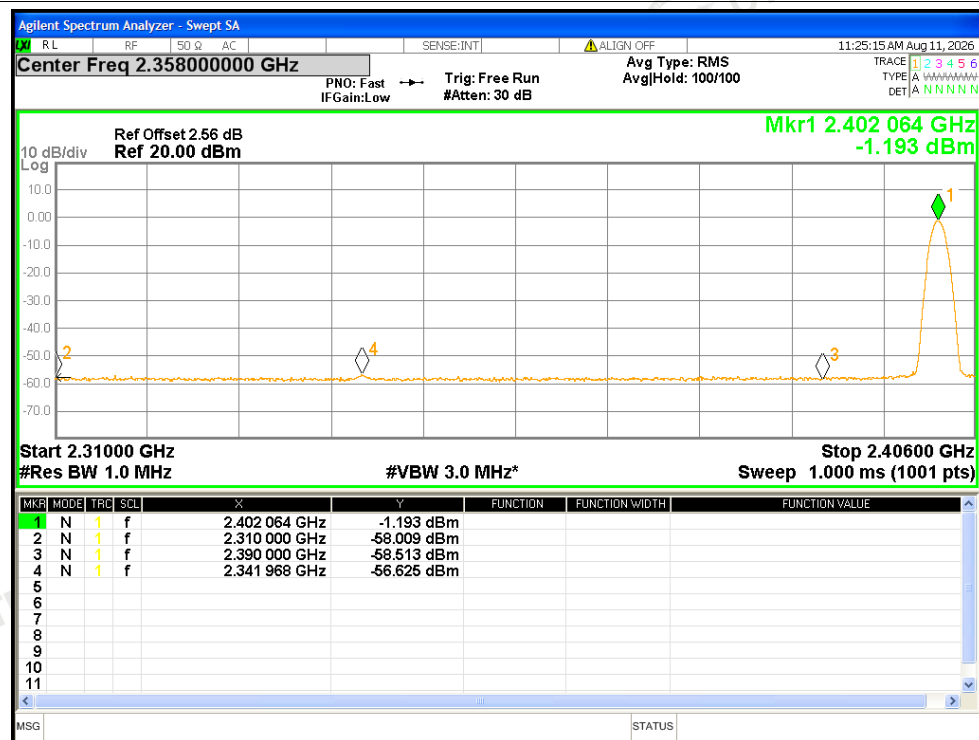
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Test Graphs

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



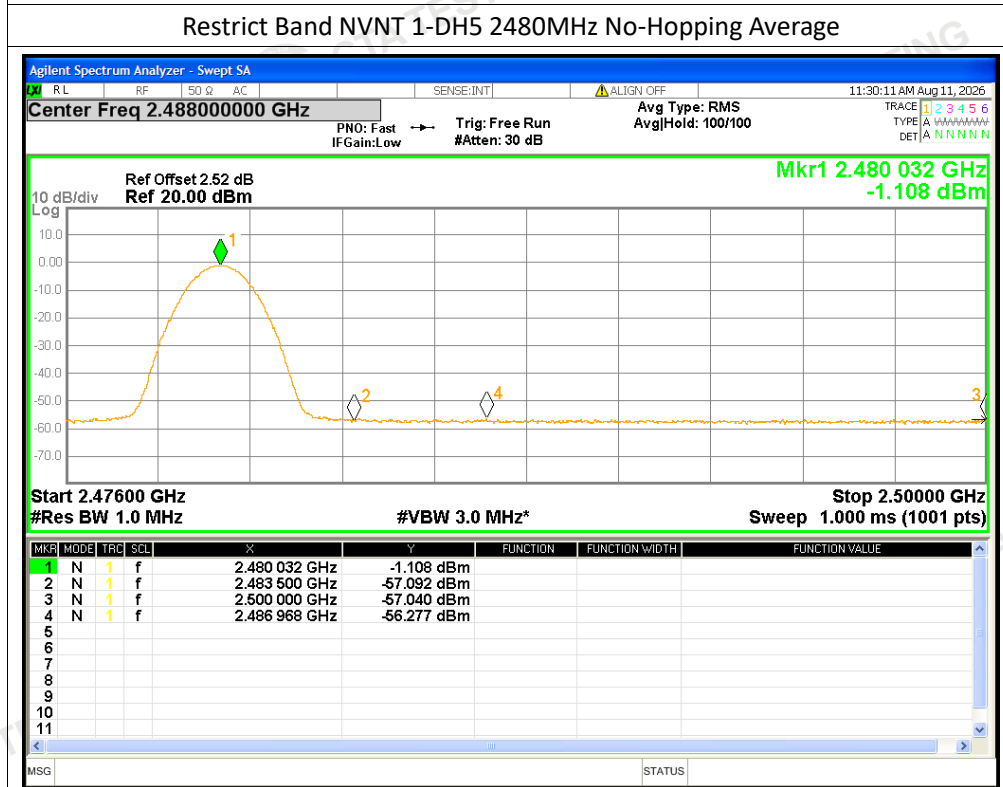
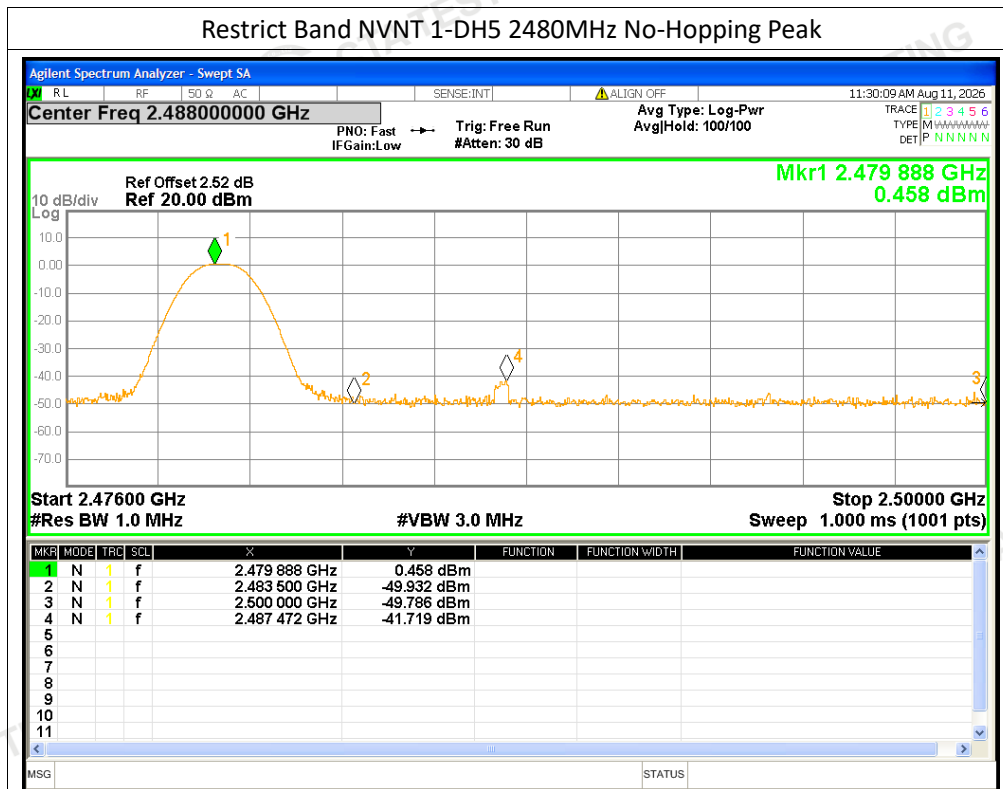
Restrict Band NVNT 1-DH5 2402MHz No-Hopping Average





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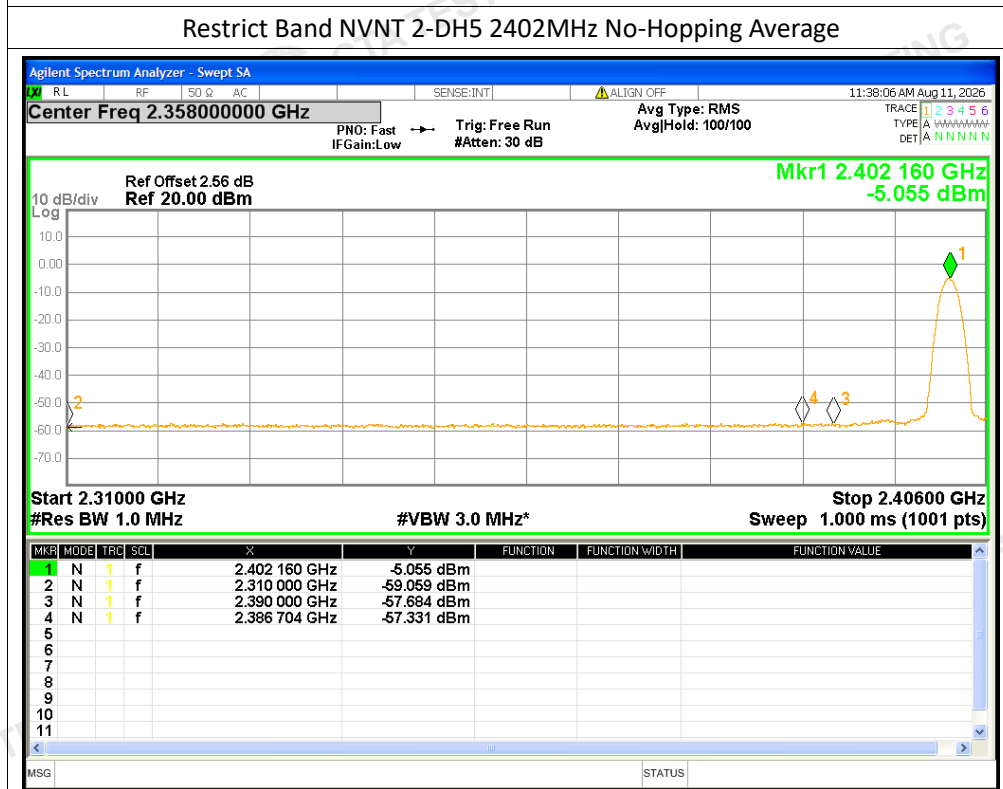
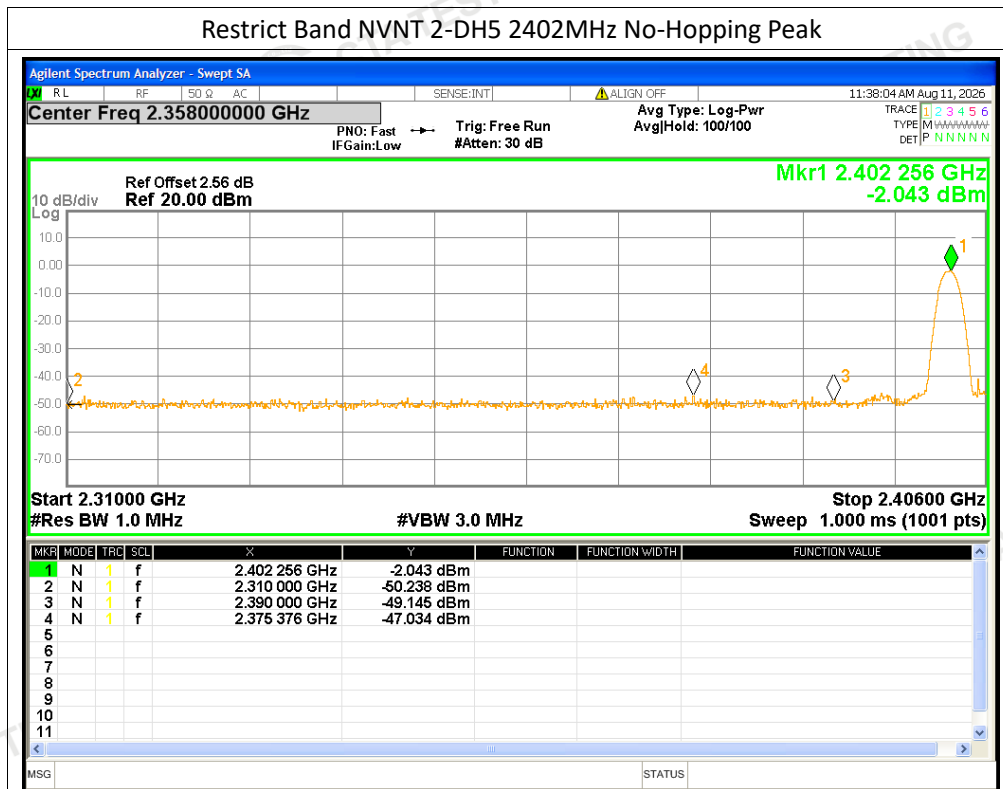
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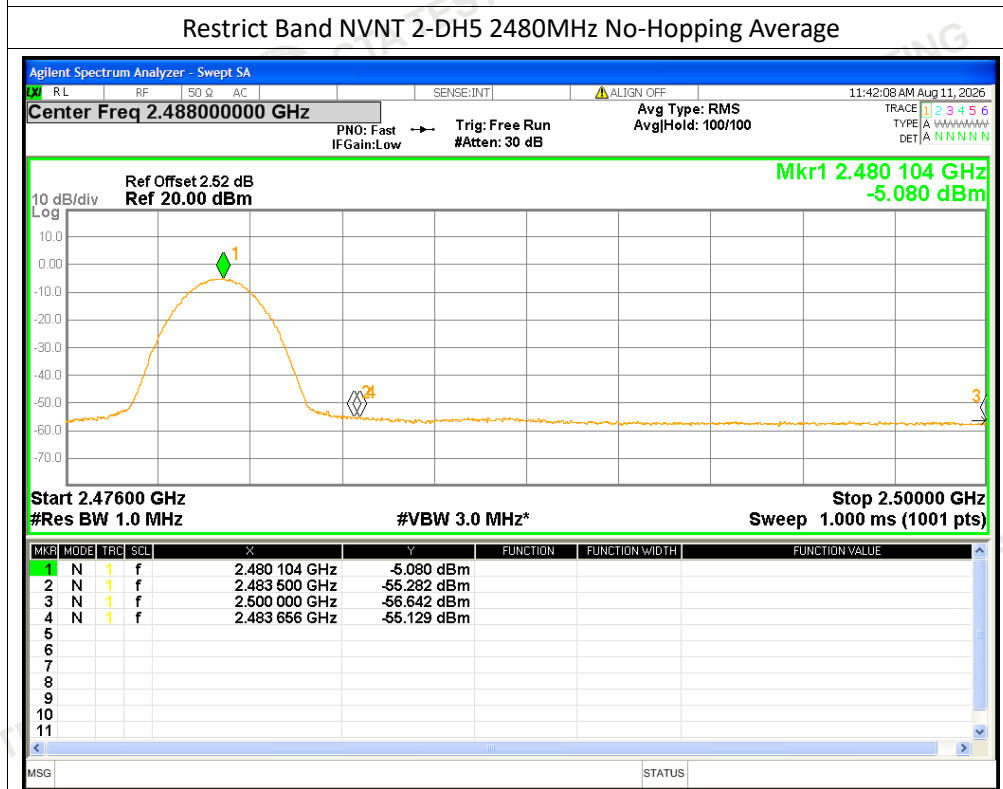
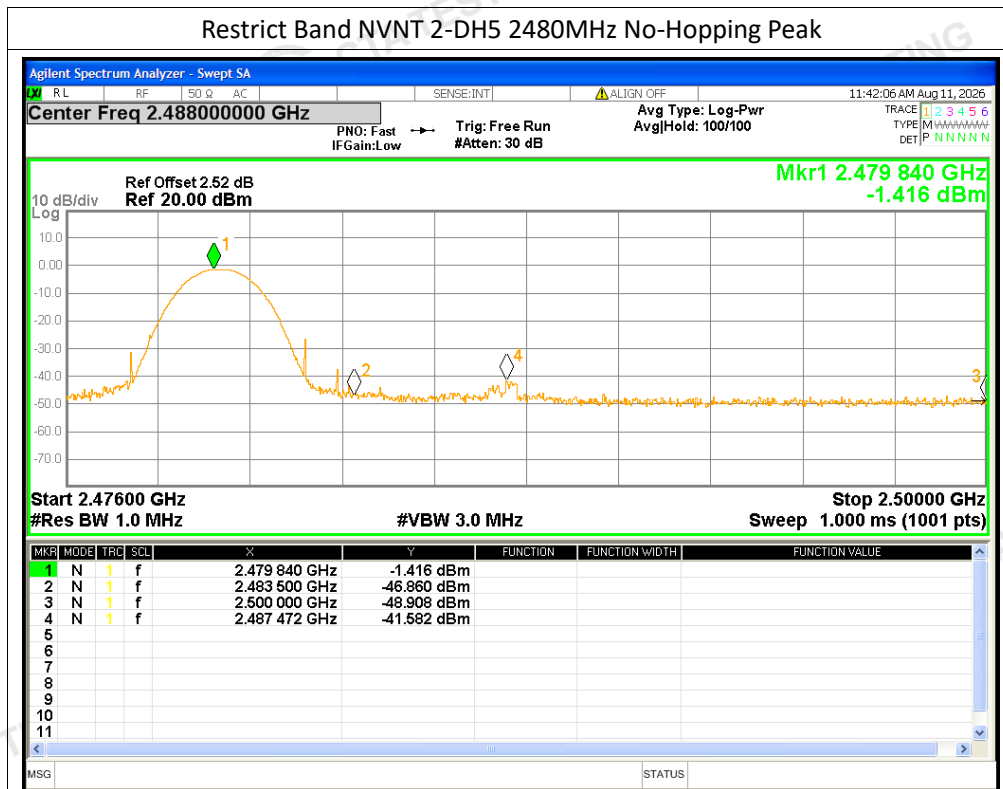
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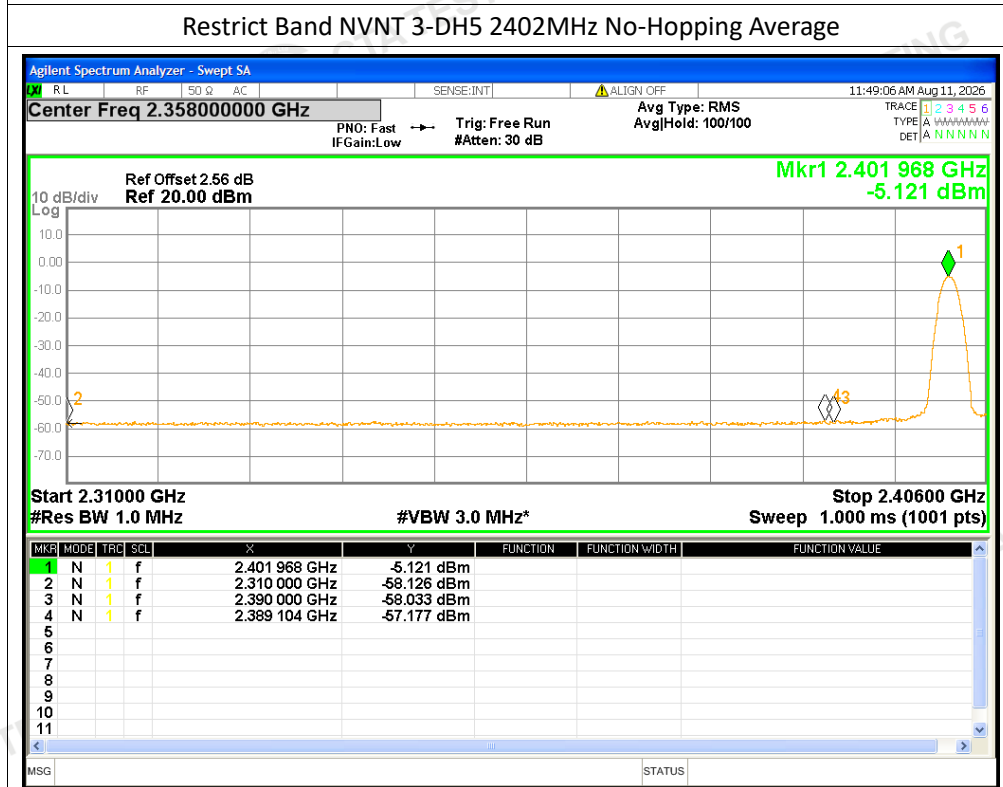
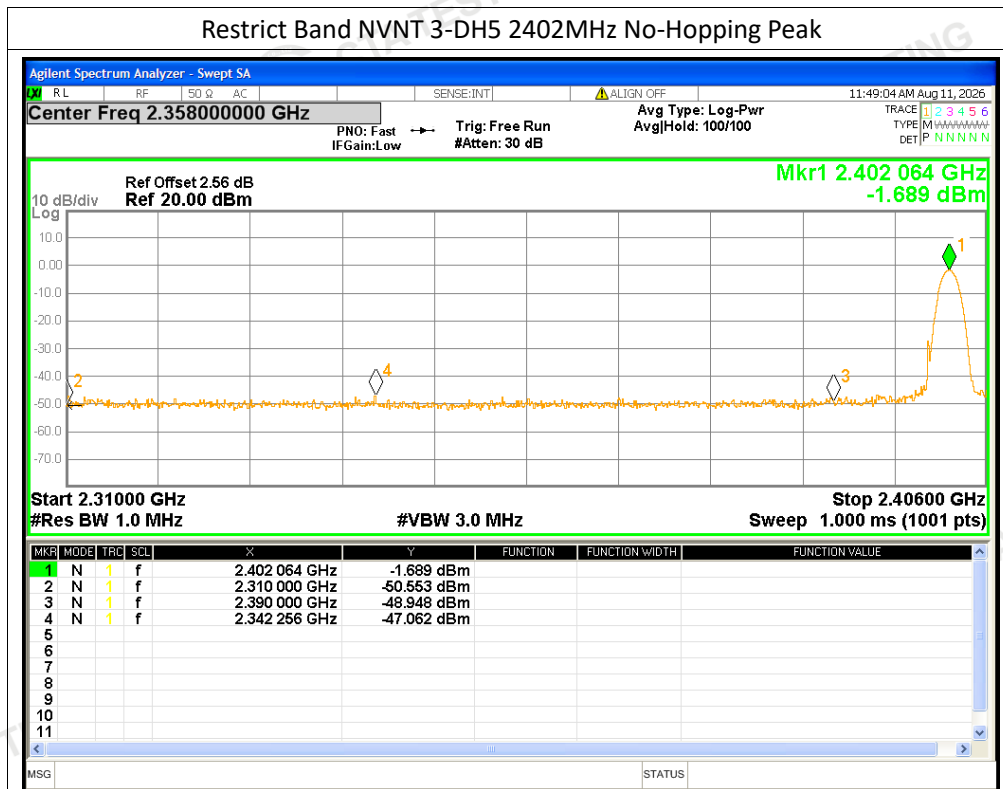
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