



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-NE778

Company : Shenzhen xiaoxiang supply chain technology co., ltd

EUT : HTC Wireless Earphones 77

Model Number : HTC NE77

Report No. : CTA26073002201

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	0.38	119.7	315	31600	<=400	Pass
1-DH3	2441	1.637	261.92	160	31600	<=400	Pass
1-DH5	2441	2.885	308.695	107	31600	<=400	Pass
2-DH1	2441	0.389	120.979	311	31600	<=400	Pass
2-DH3	2441	1.642	262.72	160	31600	<=400	Pass
2-DH5	2441	2.89	329.46	114	31600	<=400	Pass
3-DH1	2441	0.389	122.535	315	31600	<=400	Pass
3-DH3	2441	1.64	257.48	157	31600	<=400	Pass
3-DH5	2441	2.891	283.318	98	31600	<=400	Pass

Note: Both the left and right ears have been tested, and the worst result recorded was for the left ear.

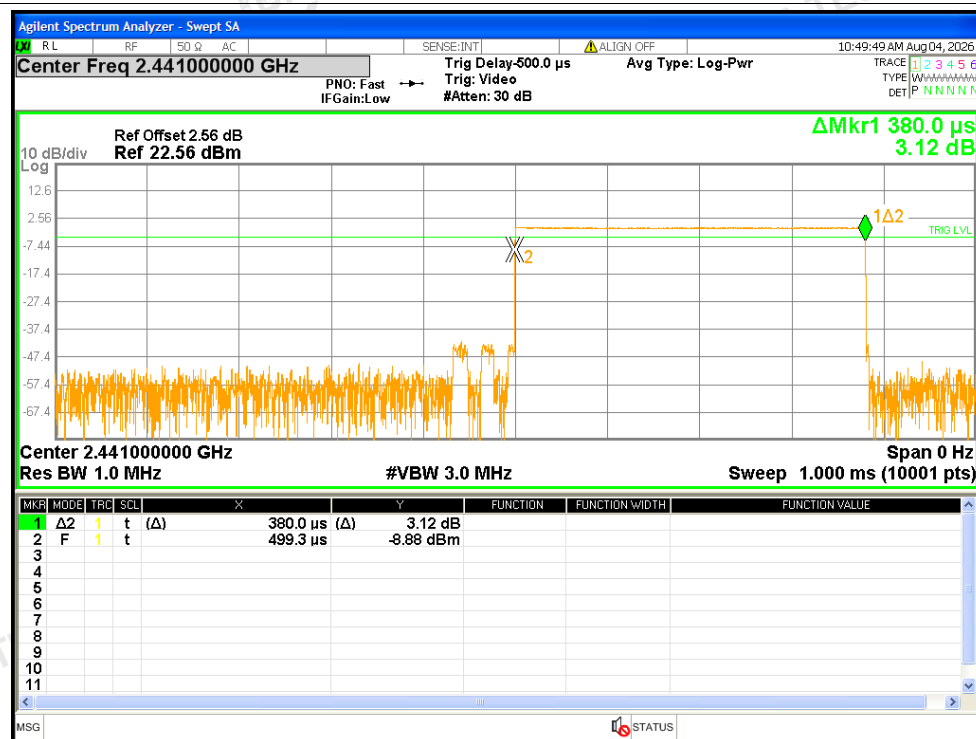


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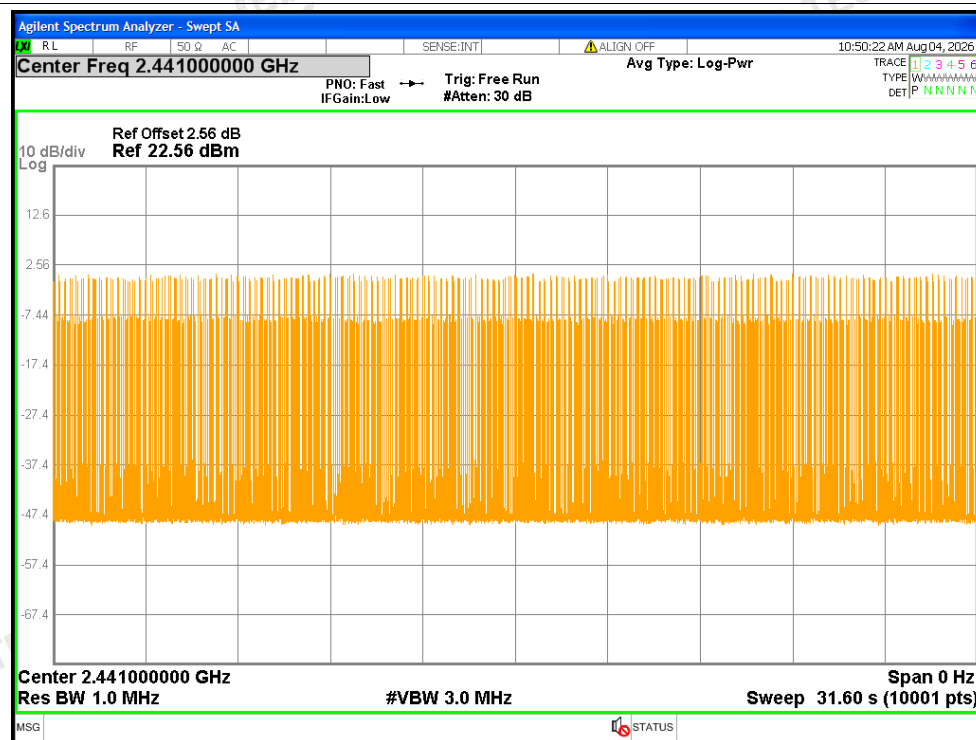
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Test Graphs

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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Dwell NVNT 2-DH5 2441MHz One Burst



Dwell NVNT 2-DH5 2441MHz Accumulated





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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	2.889	3.75	77.04	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

Note: Both the left and right ears have been tested, and the worst result recorded was for the left ear.

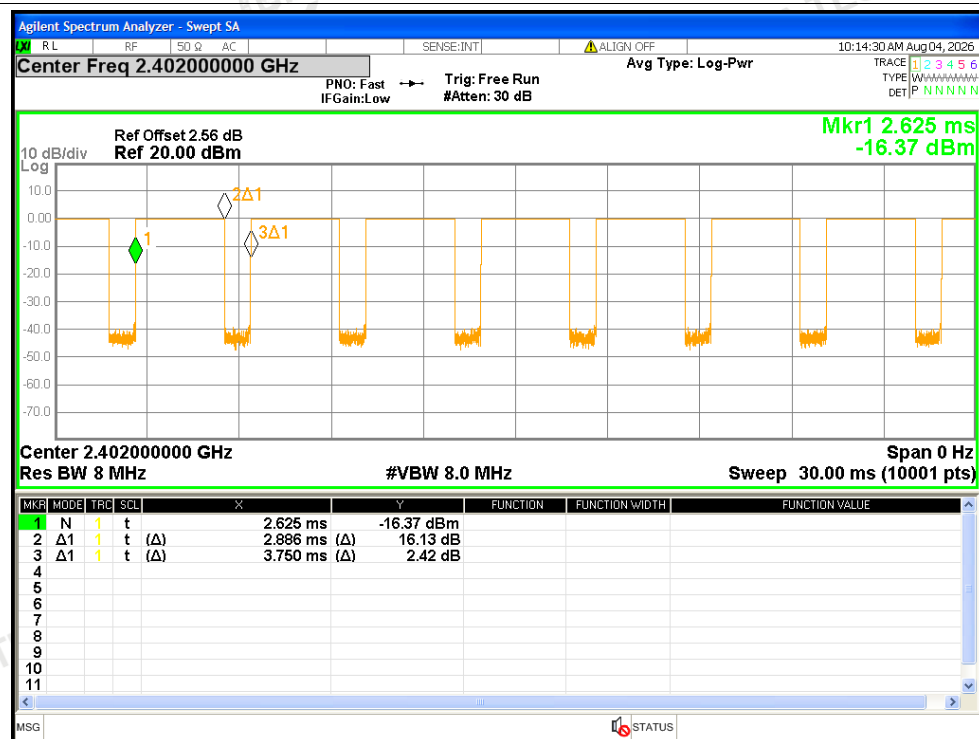


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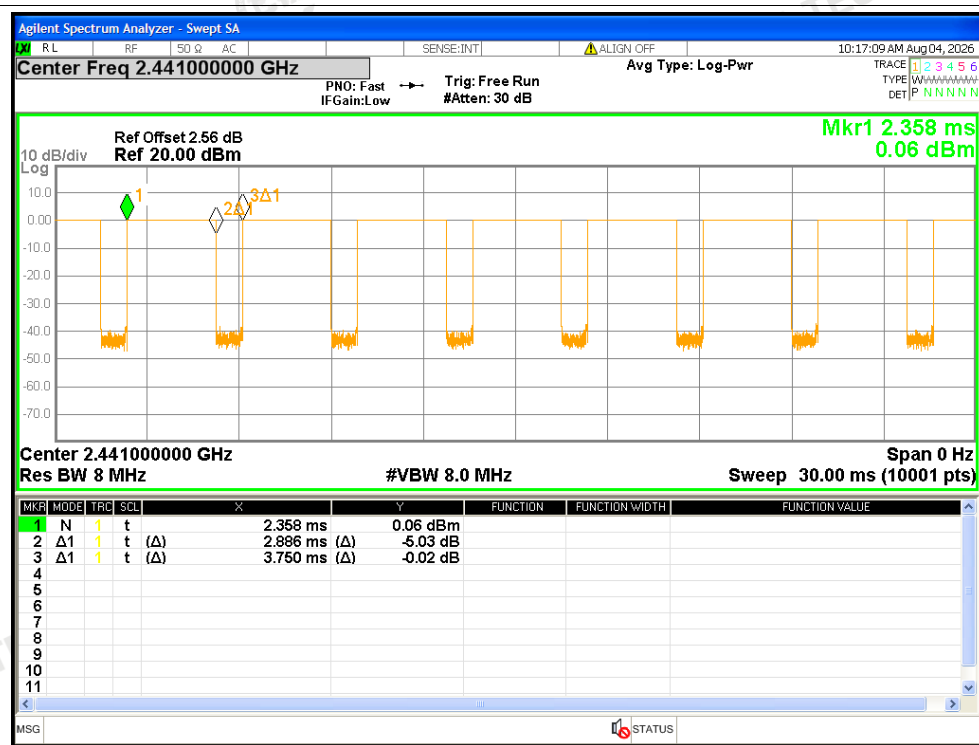
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Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz



Duty Cycle NVNT 1-DH5 2441MHz

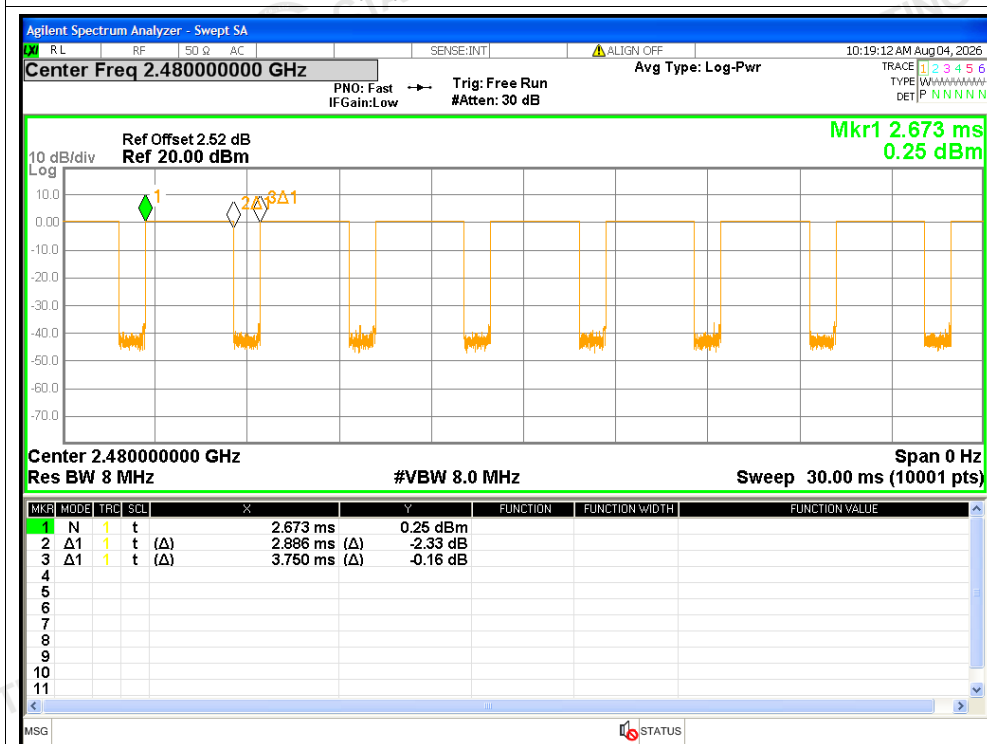




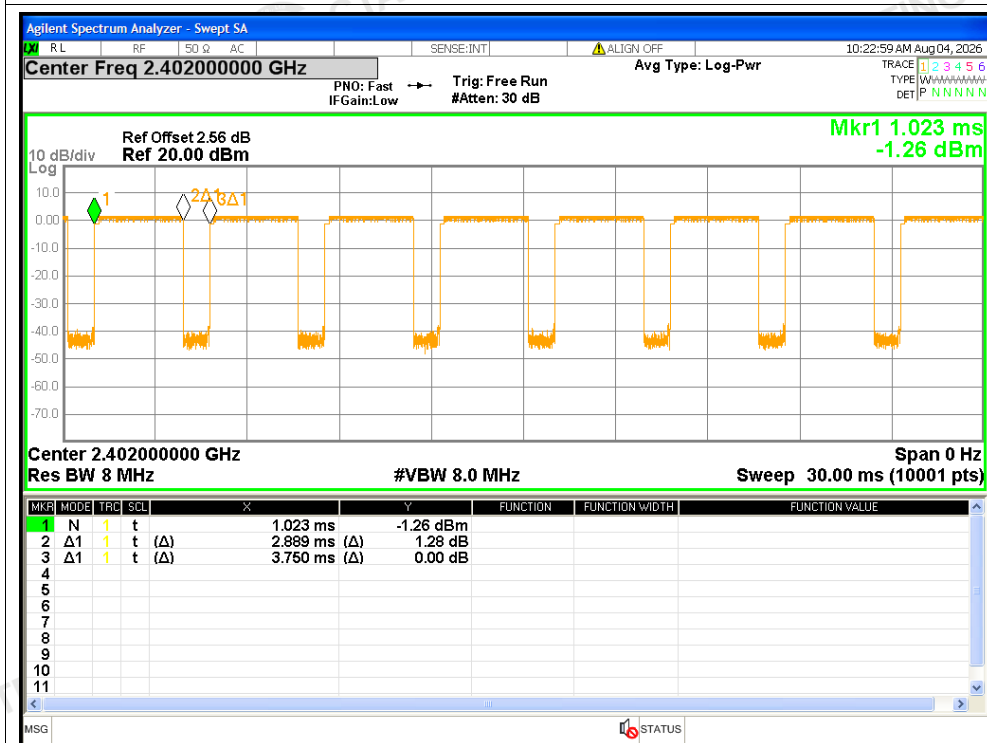
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Duty Cycle NVNT 1-DH5 2480MHz



Duty Cycle NVNT 2-DH5 2402MHz

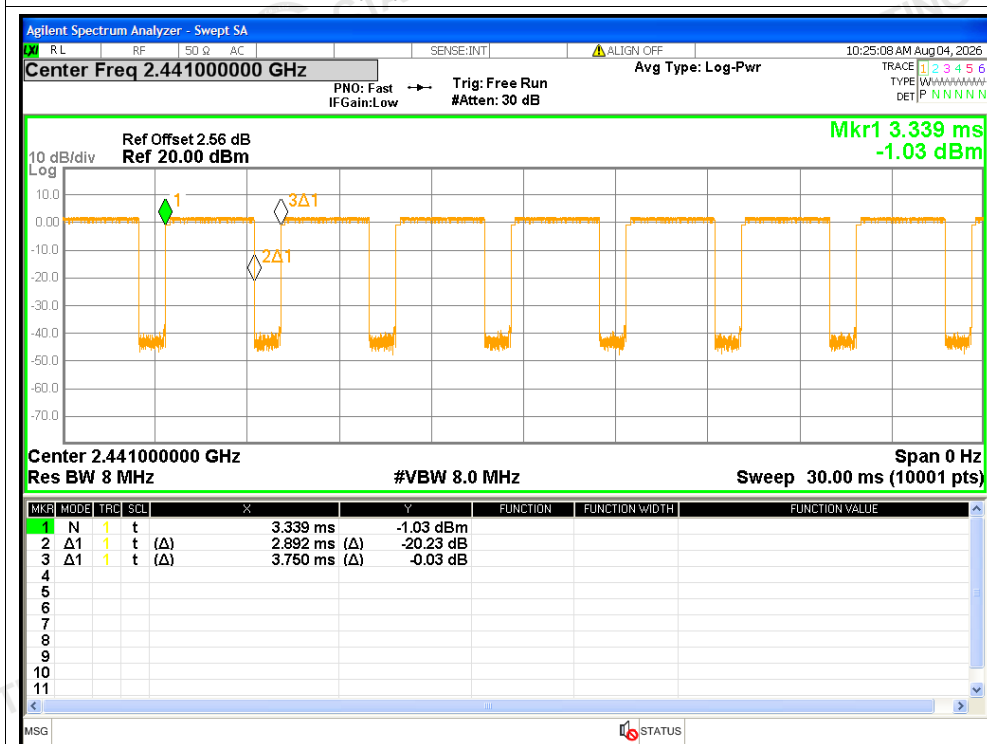




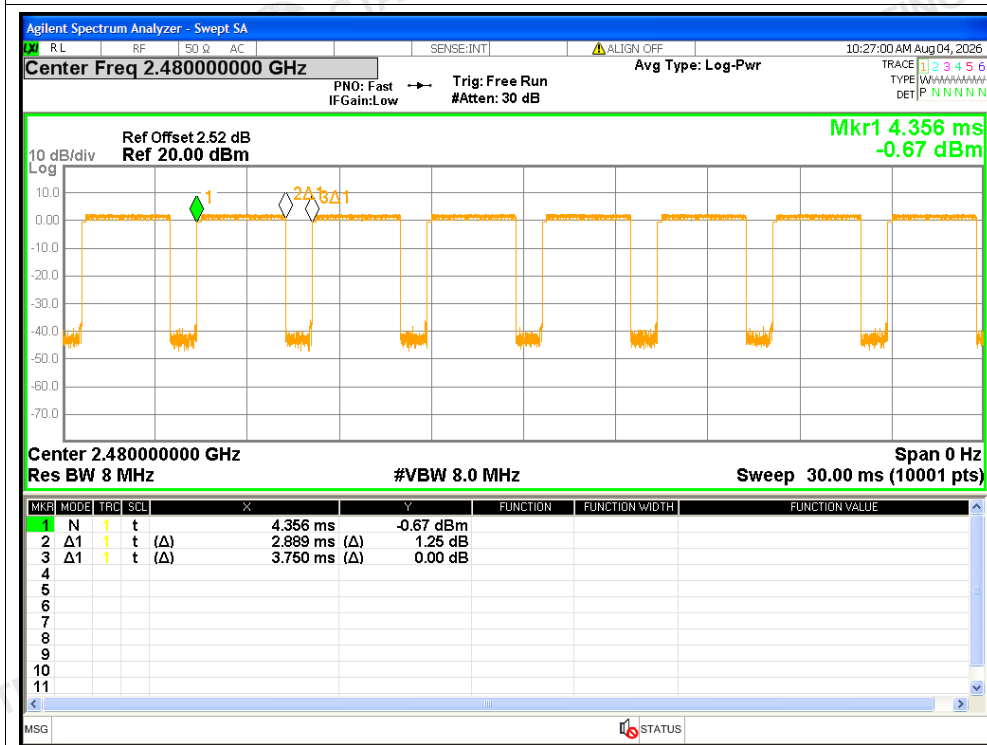
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Duty Cycle NVNT 2-DH5 2441MHz



Duty Cycle NVNT 2-DH5 2480MHz

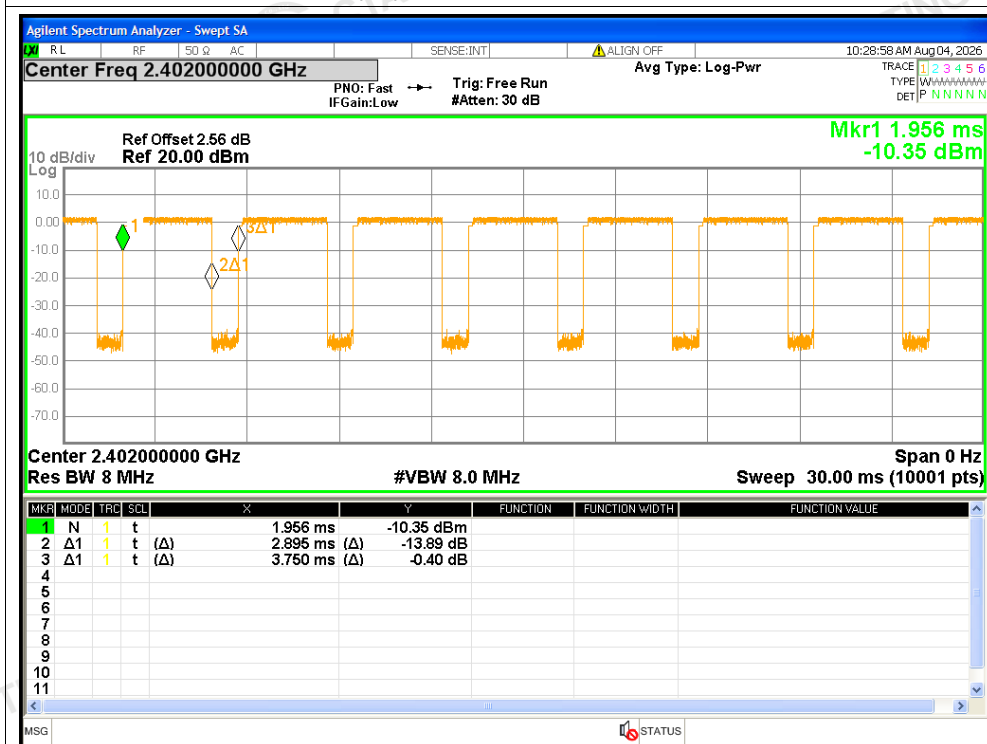




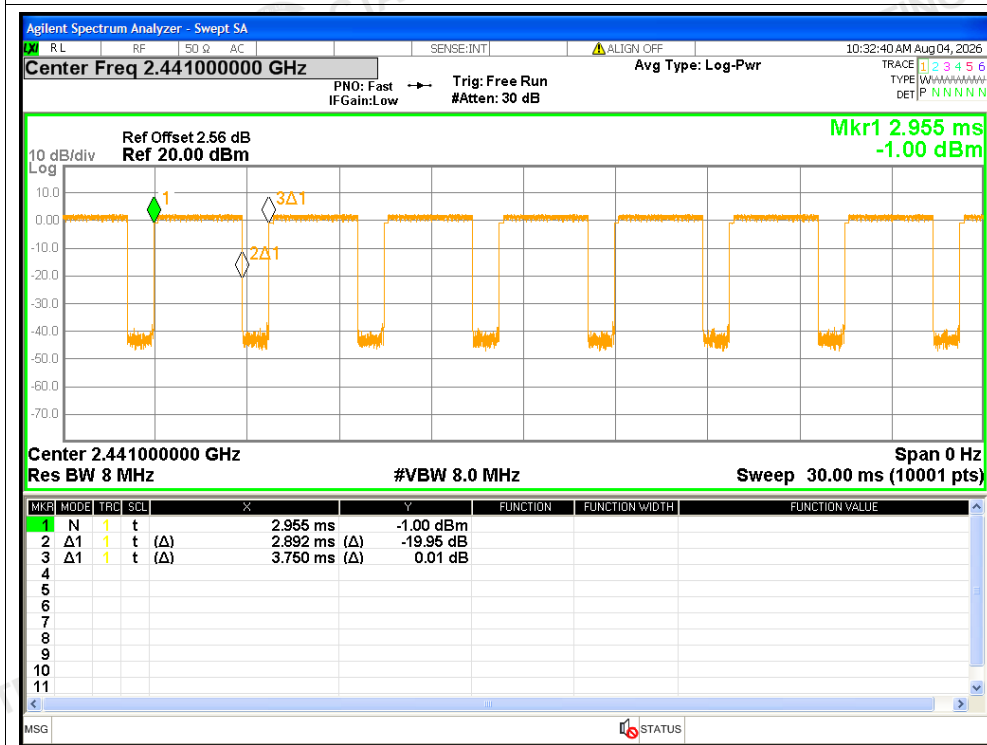
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Duty Cycle NVNT 3-DH5 2402MHz



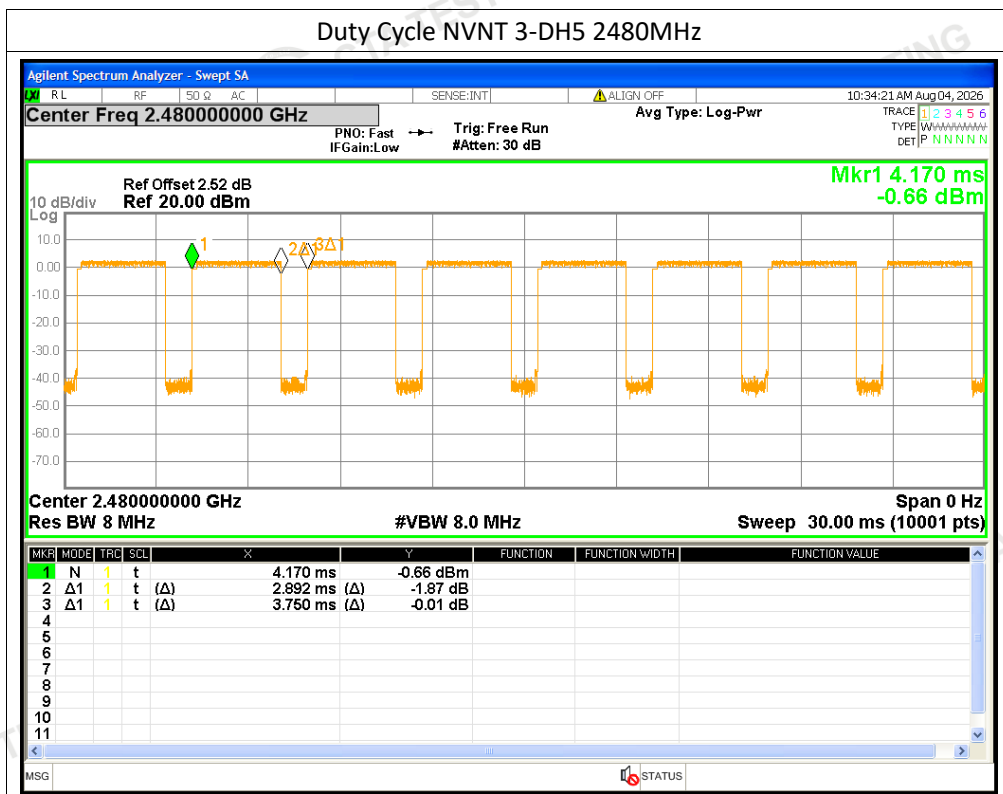
Duty Cycle NVNT 3-DH5 2441MHz





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Maximum Peak Conducted Output Power

Left:

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
1-DH5	2402	-0.13	≤ 30	Pass
1-DH5	2441	0.11	≤ 30	Pass
1-DH5	2480	0.43	≤ 30	Pass
2-DH5	2402	0.92	≤ 21	Pass
2-DH5	2441	1.1	≤ 21	Pass
2-DH5	2480	1.39	≤ 21	Pass
3-DH5	2402	1.09	≤ 21	Pass
3-DH5	2441	1.3	≤ 21	Pass
3-DH5	2480	1.62	≤ 21	Pass

Right:

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
1-DH5	2402	-0.46	≤ 30	Pass
1-DH5	2441	0.34	≤ 30	Pass
1-DH5	2480	0.27	≤ 30	Pass
2-DH5	2402	0.53	≤ 21	Pass
2-DH5	2441	1.28	≤ 21	Pass
2-DH5	2480	1.13	≤ 21	Pass
3-DH5	2402	1.36	≤ 21	Pass
3-DH5	2441	1.18	≤ 21	Pass
3-DH5	2480	1.47	≤ 21	Pass



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-20dB Bandwidth

Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
1-DH5	2402	0.951	Pass
1-DH5	2441	0.9478	Pass
1-DH5	2480	0.9546	Pass
2-DH5	2402	1.491	Pass
2-DH5	2441	1.495	Pass
2-DH5	2480	1.435	Pass
3-DH5	2402	1.574	Pass
3-DH5	2441	1.472	Pass
3-DH5	2480	1.466	Pass

Note: Both the left and right ears have been tested, and the worst result recorded was for the left ear.

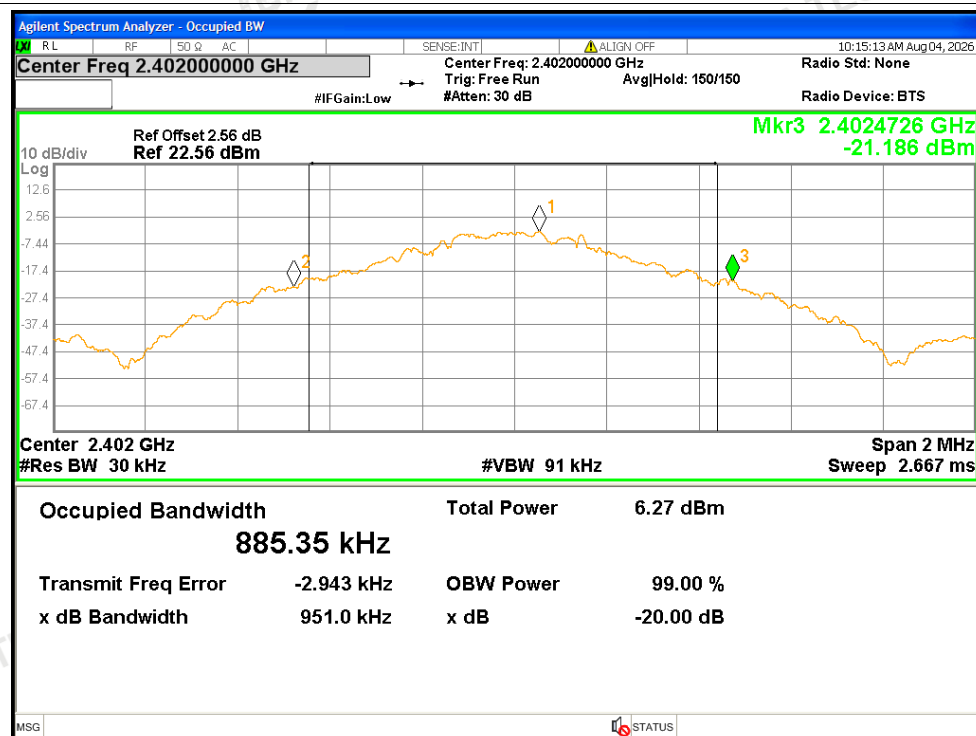


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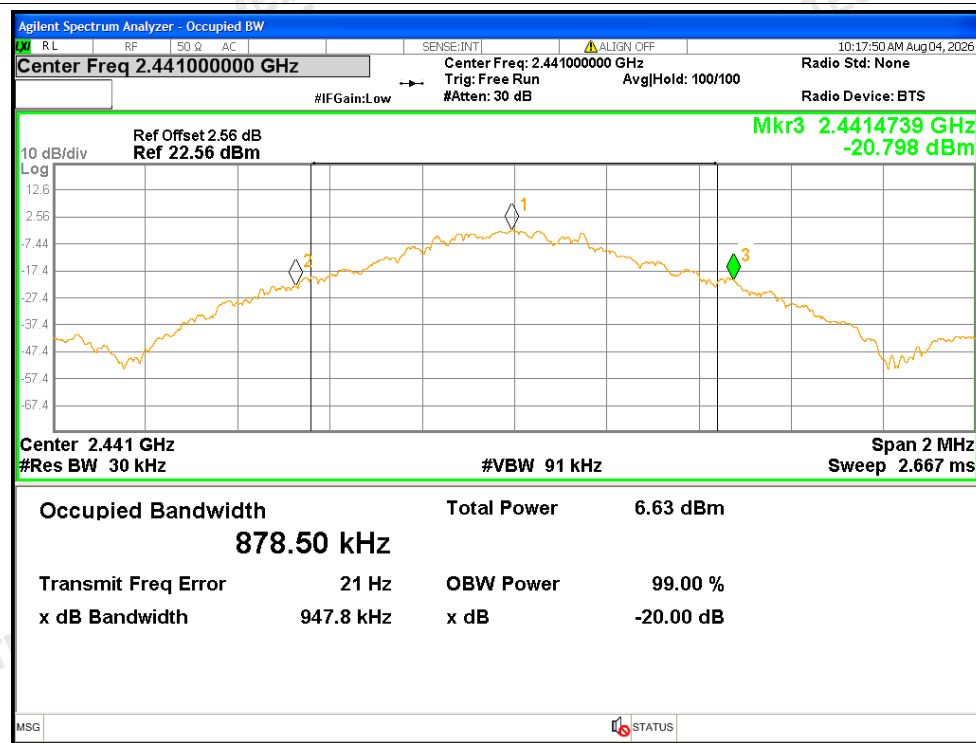
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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz



-20dB Bandwidth NVNT 1-DH5 2441MHz

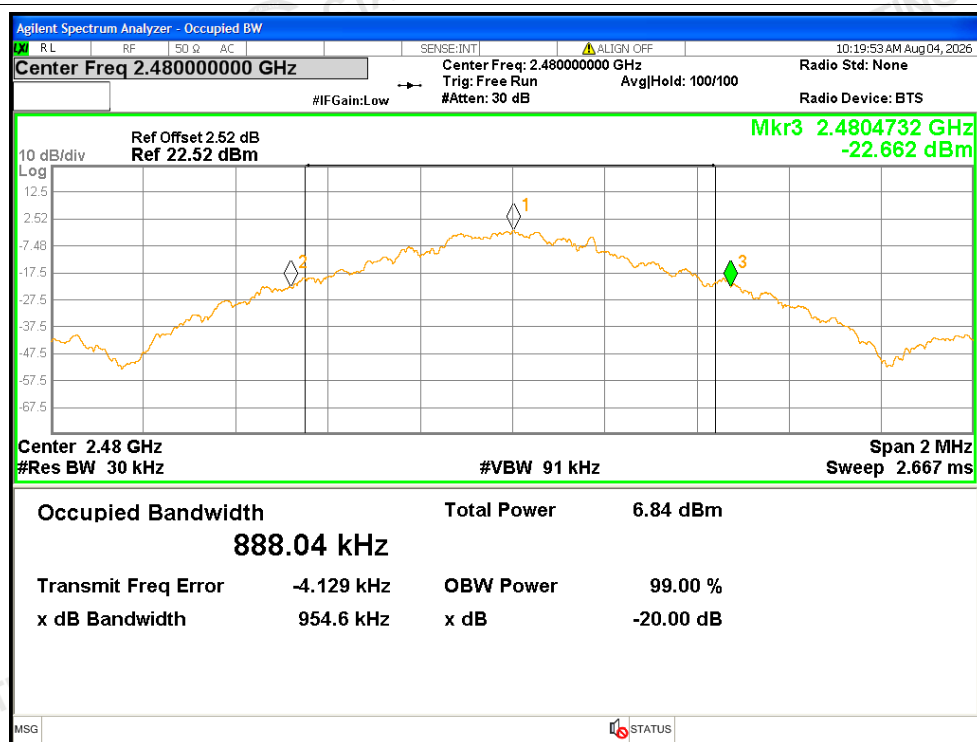




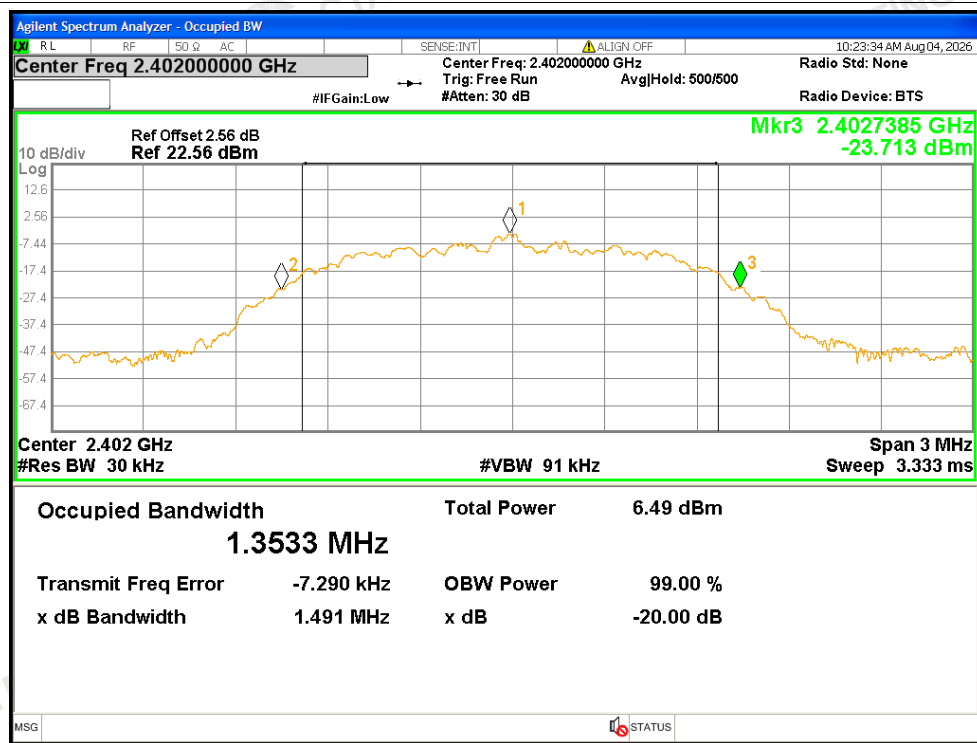
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-20dB Bandwidth NVNT 1-DH5 2480MHz



-20dB Bandwidth NVNT 2-DH5 2402MHz

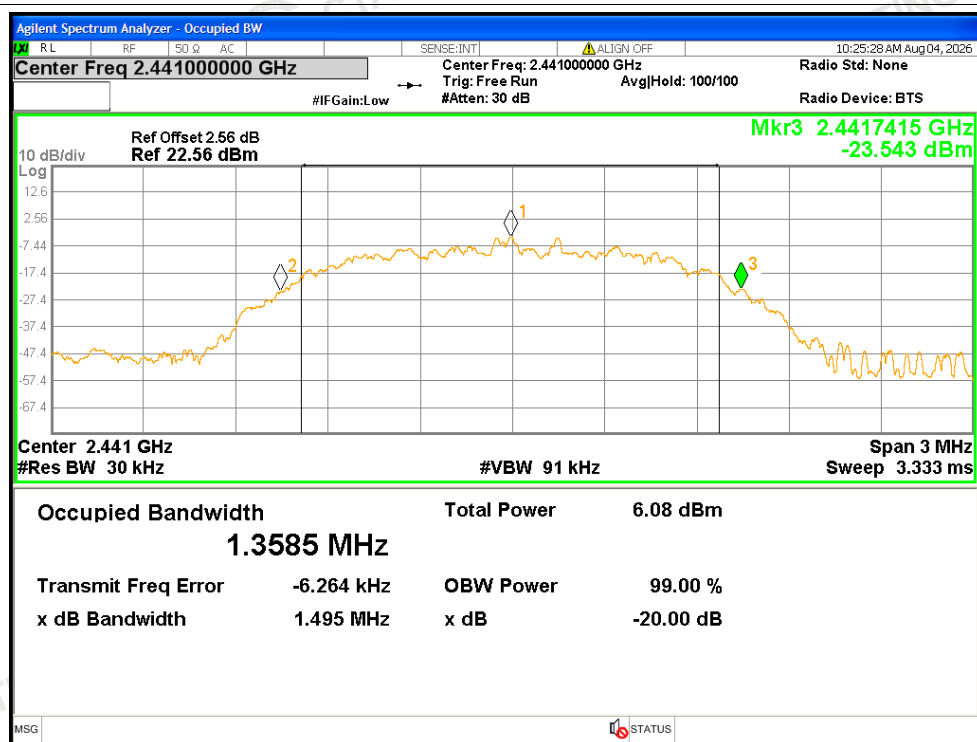




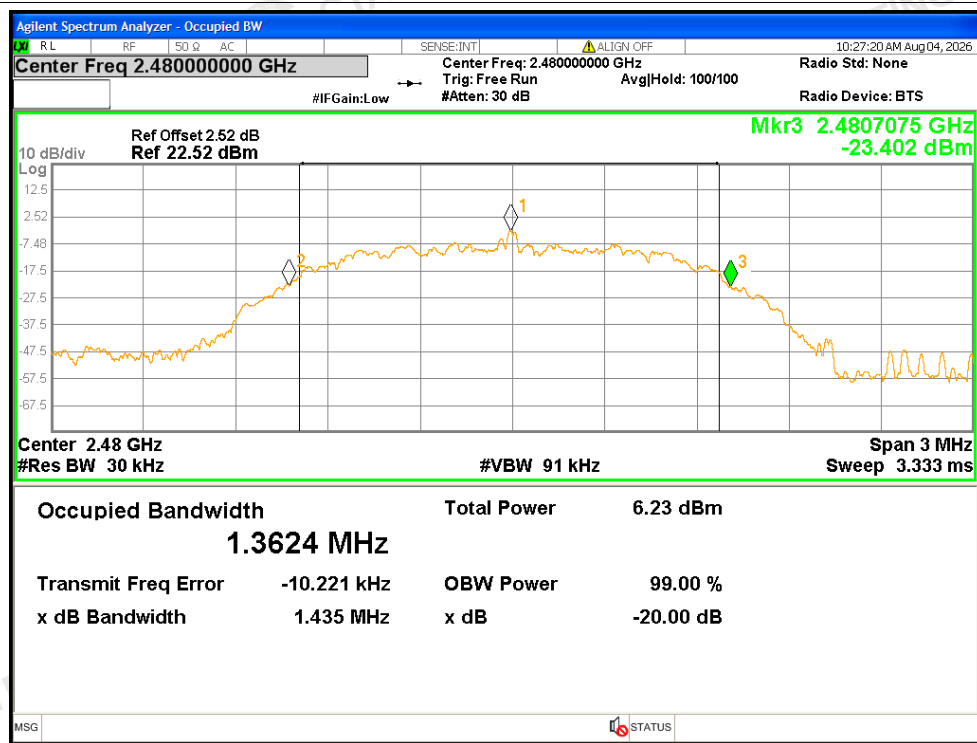
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-20dB Bandwidth NVNT 2-DH5 2441MHz



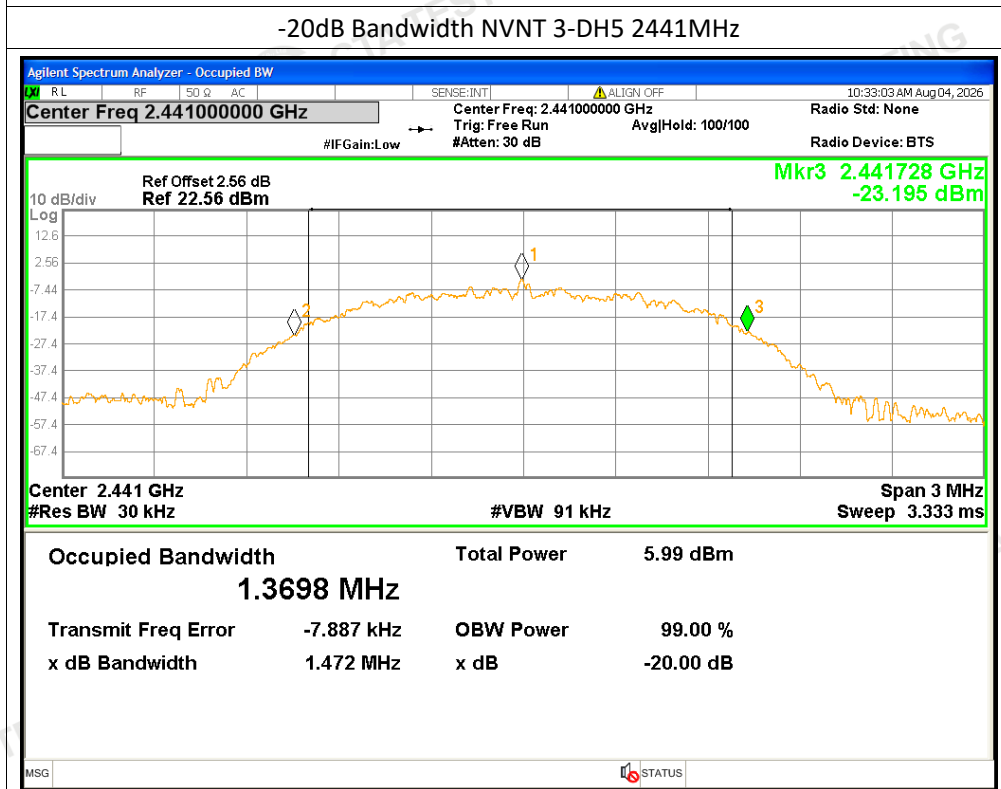
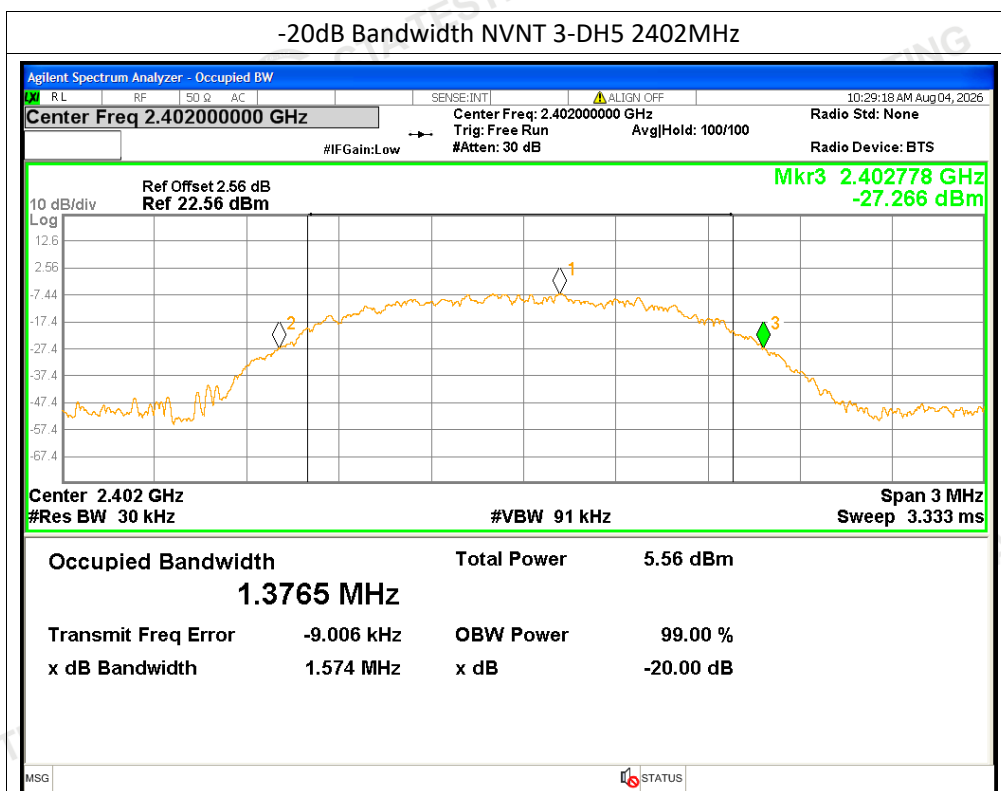
-20dB Bandwidth NVNT 2-DH5 2480MHz





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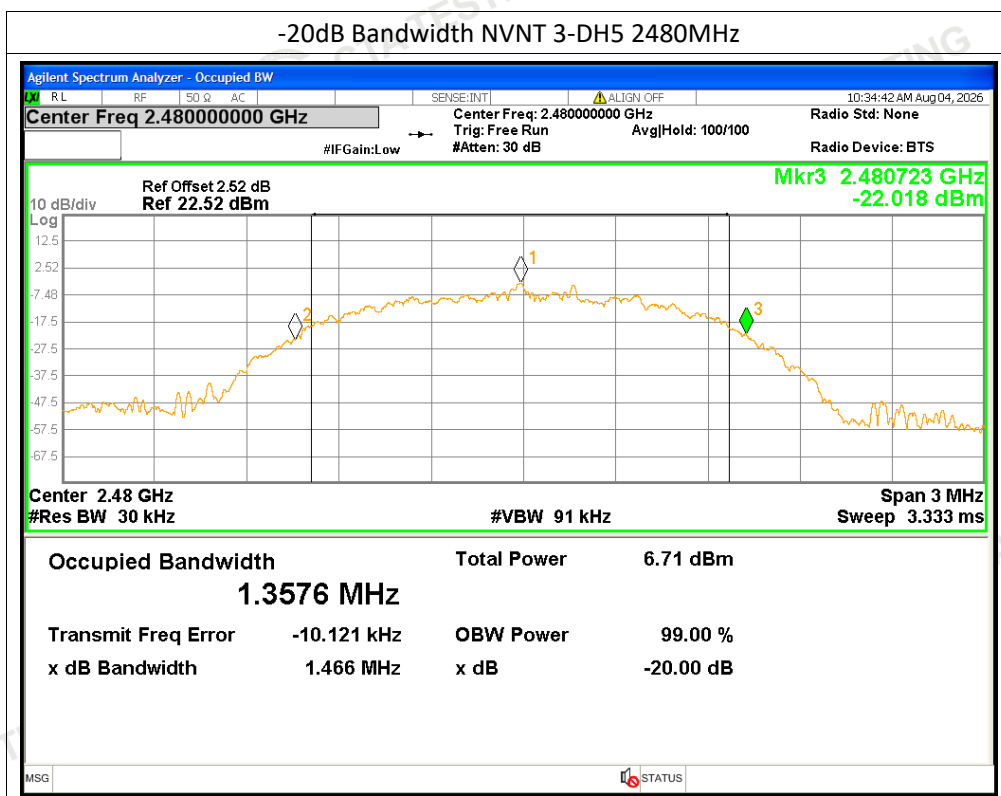
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Carrier Frequencies Separation

Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
1-DH5	2402.137	2403.16	1.023	≥ 0.951	Pass
1-DH5	2441.167	2442.151	0.984	≥ 0.948	Pass
1-DH5	2478.828	2480.001	1.173	≥ 0.955	Pass
2-DH5	2401.87	2403.139	1.269	≥ 0.994	Pass
2-DH5	2440.912	2442.091	1.179	≥ 0.997	Pass
2-DH5	2478.897	2480.145	1.248	≥ 0.957	Pass
3-DH5	2401.87	2403.142	1.272	≥ 1.049	Pass
3-DH5	2440.864	2442.16	1.296	≥ 0.981	Pass
3-DH5	2478.822	2480.13	1.308	≥ 0.977	Pass

Note: Both the left and right ears have been tested, and the worst result recorded was for the left ear.

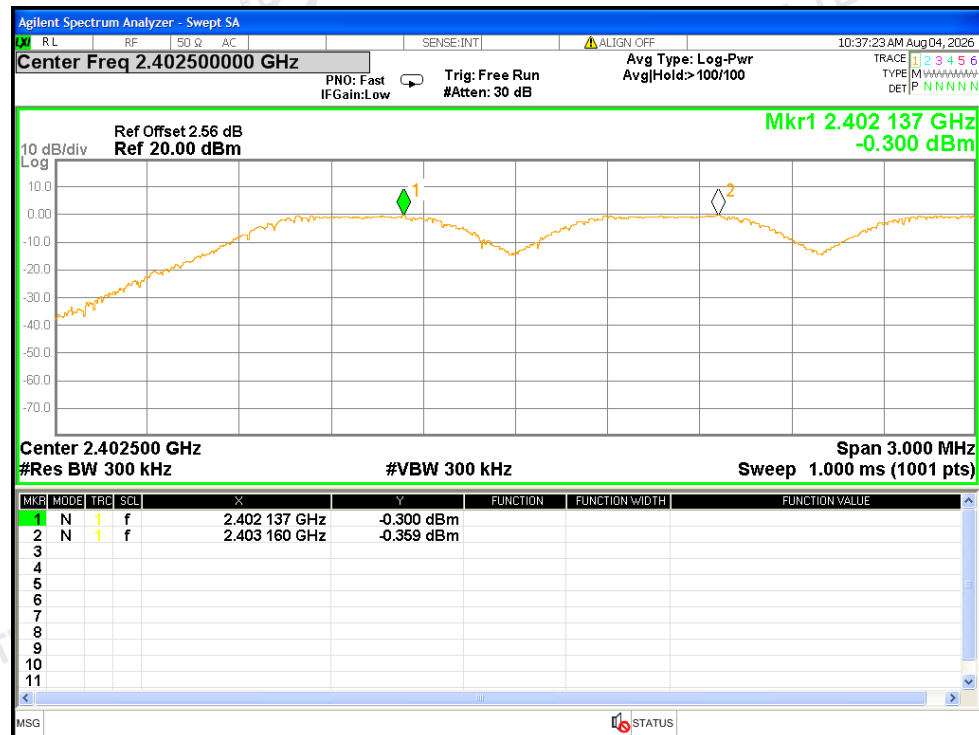


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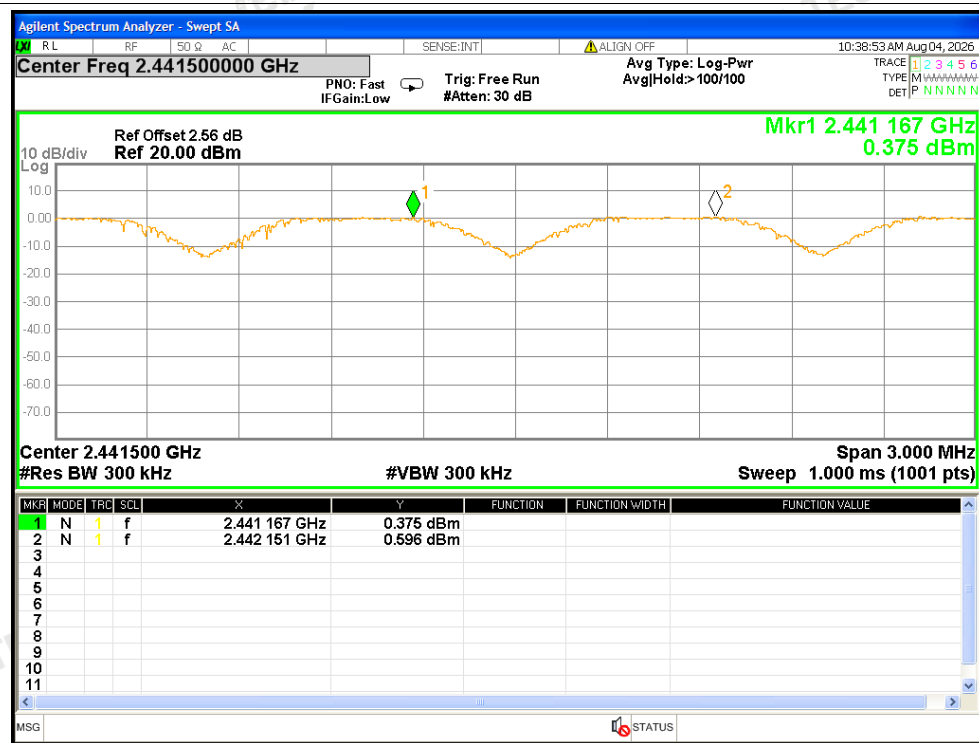
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Test Graphs

CFS NVNT 1-DH5 2402MHz



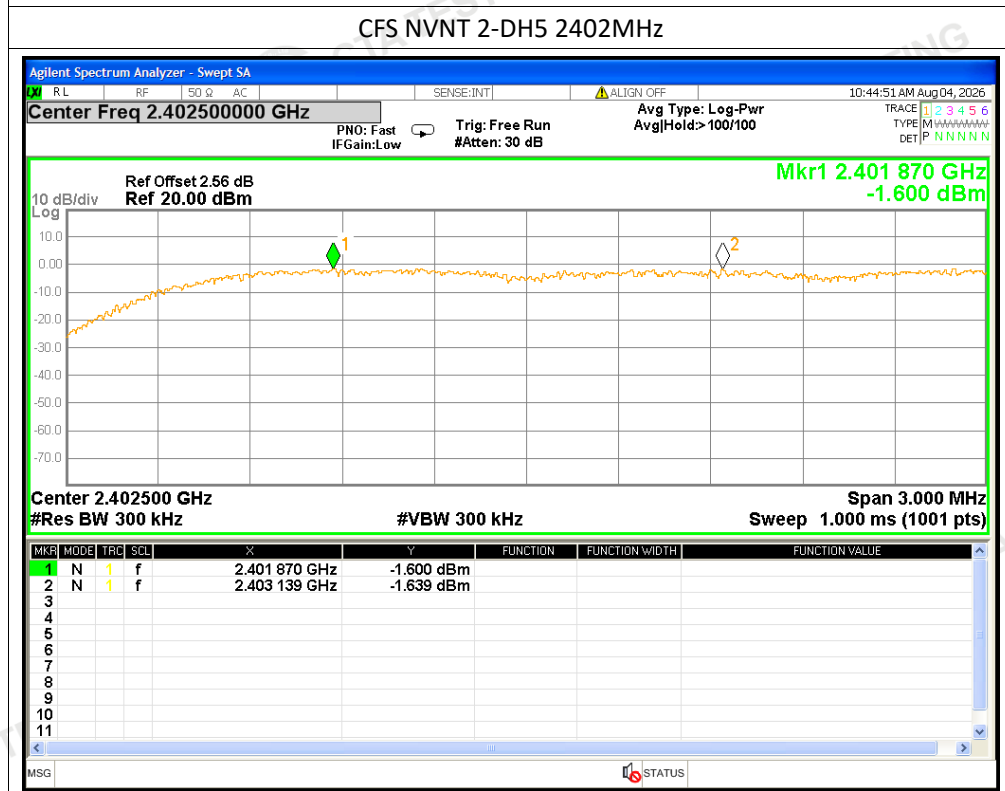
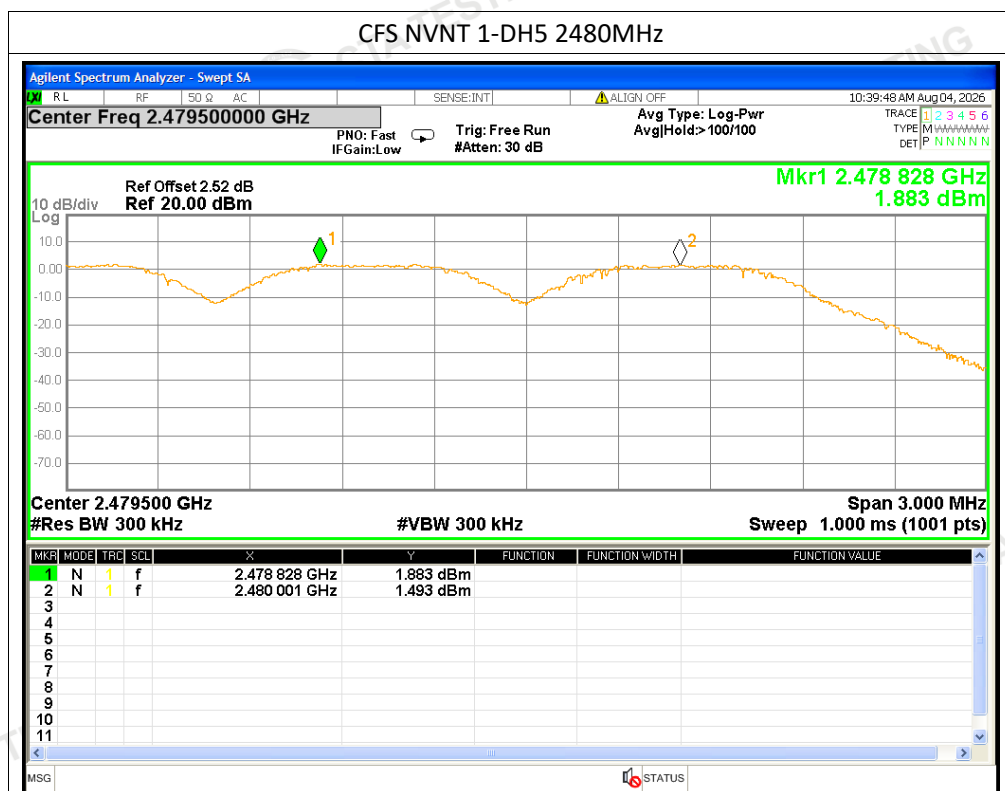
CFS NVNT 1-DH5 2441MHz





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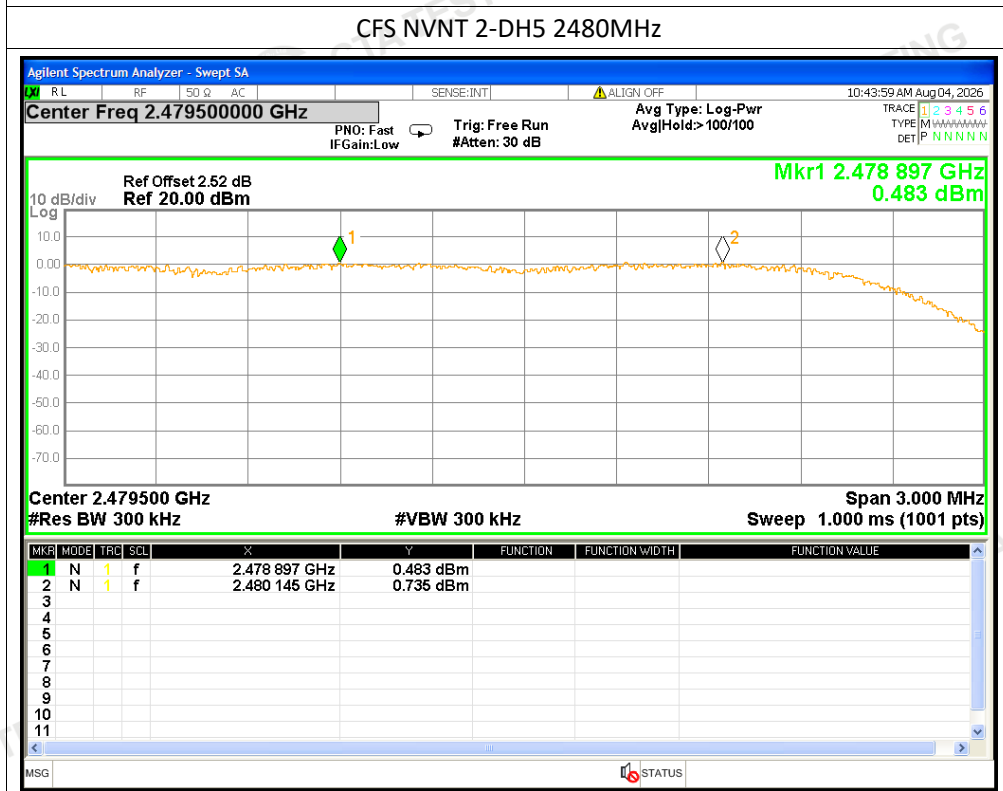
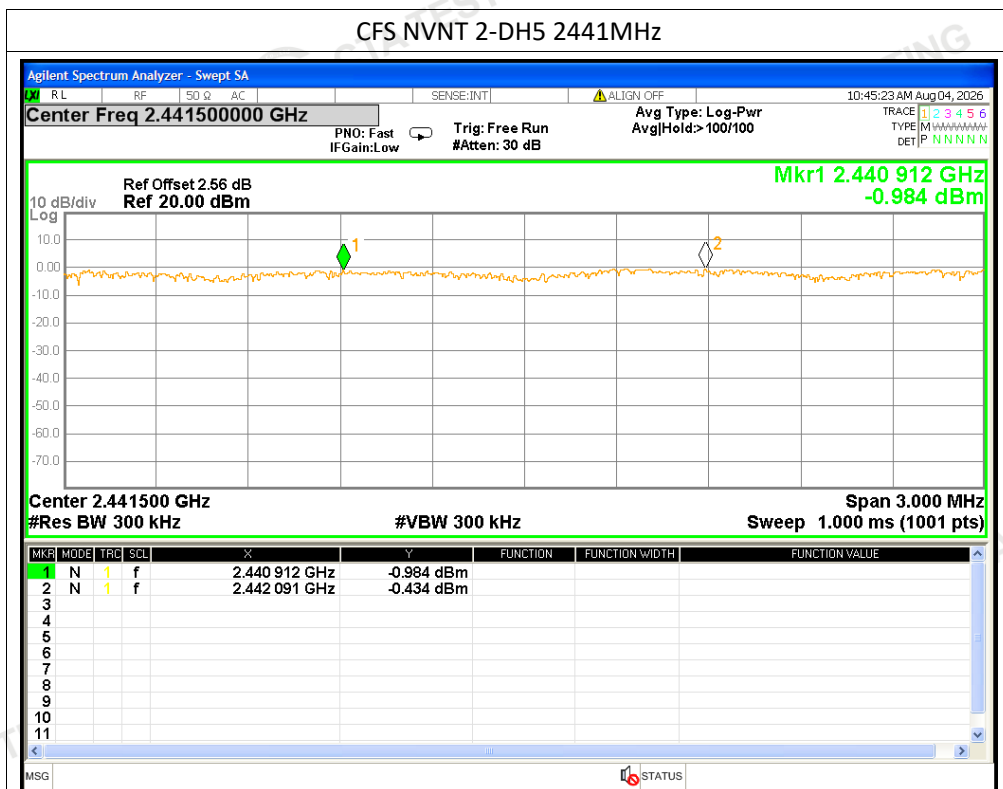
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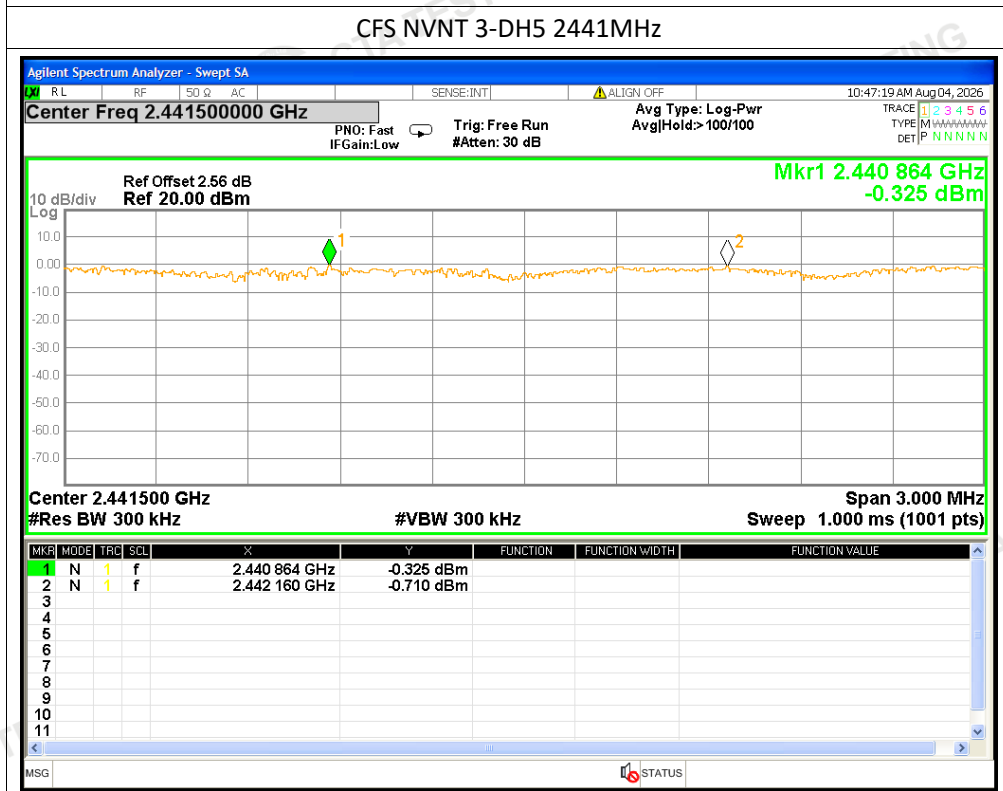
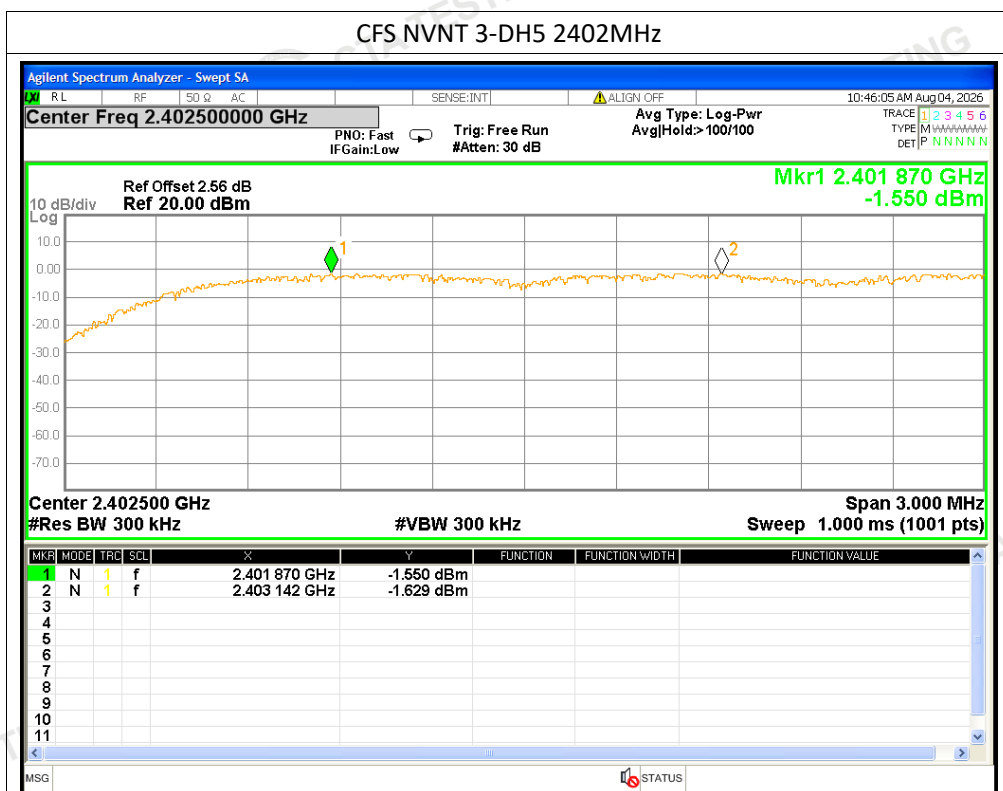
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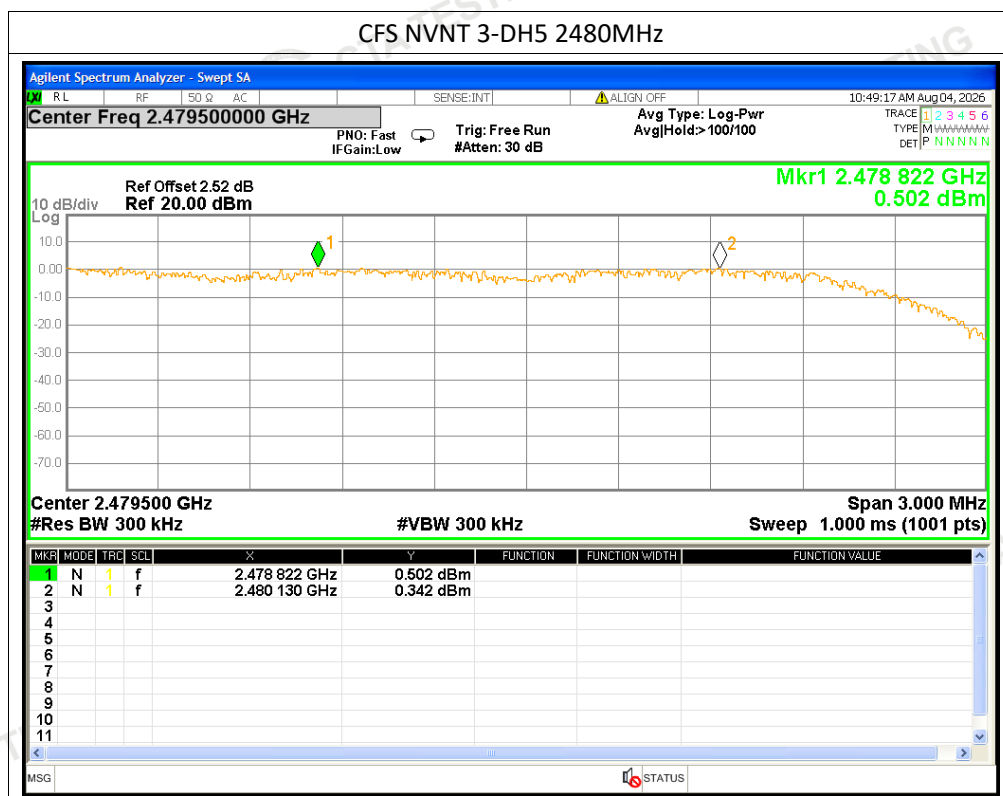
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Number of Hopping Channel

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

Note: Both the left and right ears have been tested, and the worst result recorded was for the left ear.

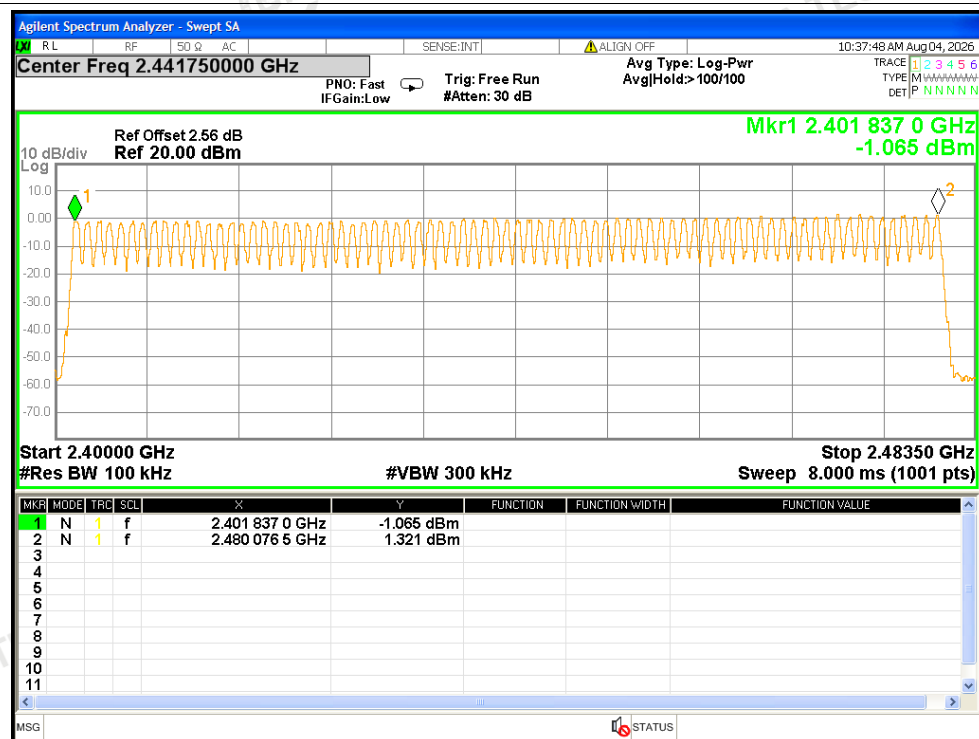


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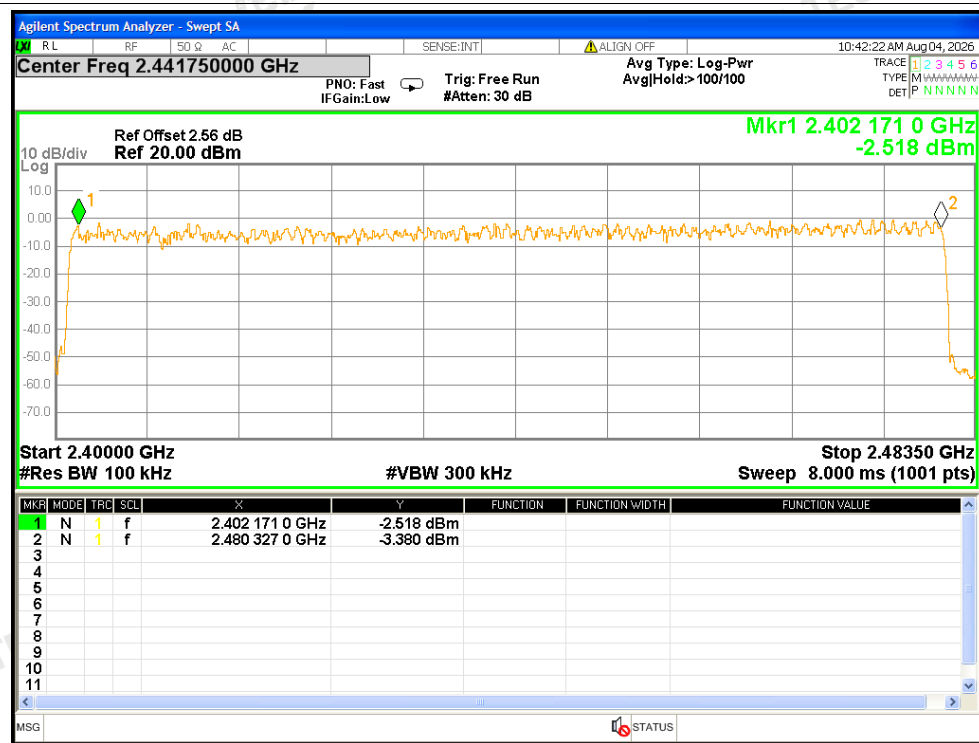
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Test Graphs

Hopping No. NVNT 1-DH5 Hopping



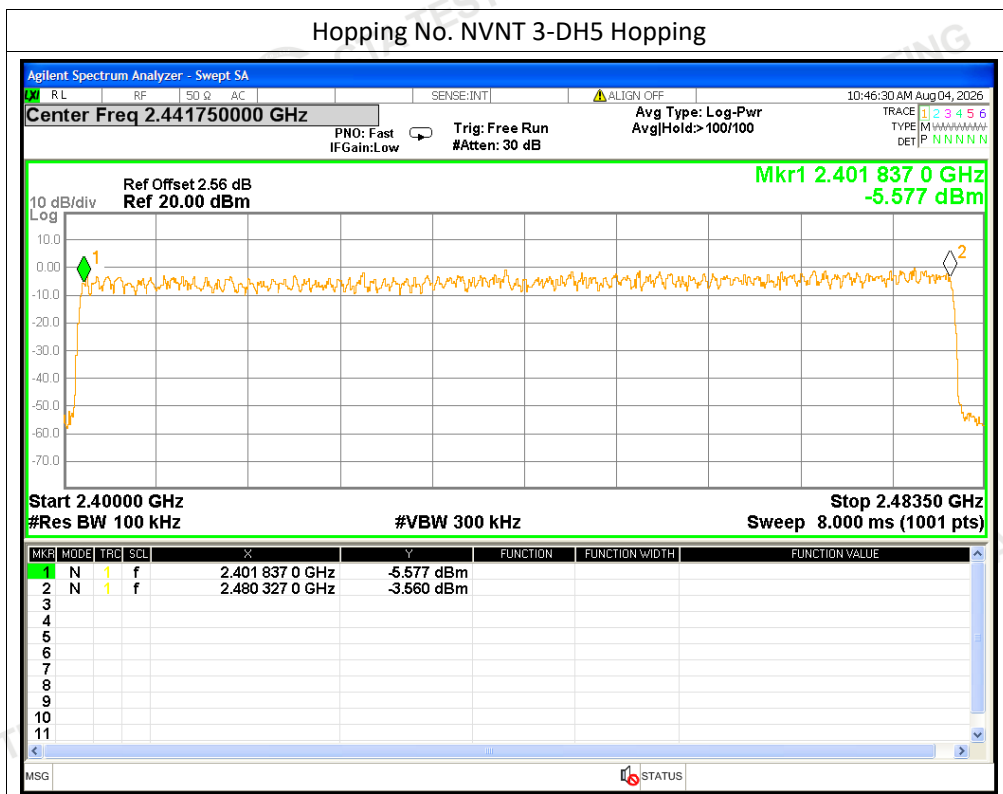
Hopping No. NVNT 2-DH5 Hopping





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Band Edge

Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	No-Hopping	-55.66	≤ -20	Pass
1-DH5	2480	No-Hopping	-45.51	≤ -20	Pass
2-DH5	2402	No-Hopping	-55	≤ -20	Pass
2-DH5	2480	No-Hopping	-47.07	≤ -20	Pass
3-DH5	2402	No-Hopping	-55.49	≤ -20	Pass
3-DH5	2480	No-Hopping	-49.95	≤ -20	Pass

Note: Both the left and right ears have been tested, and the worst result recorded was for the left ear.

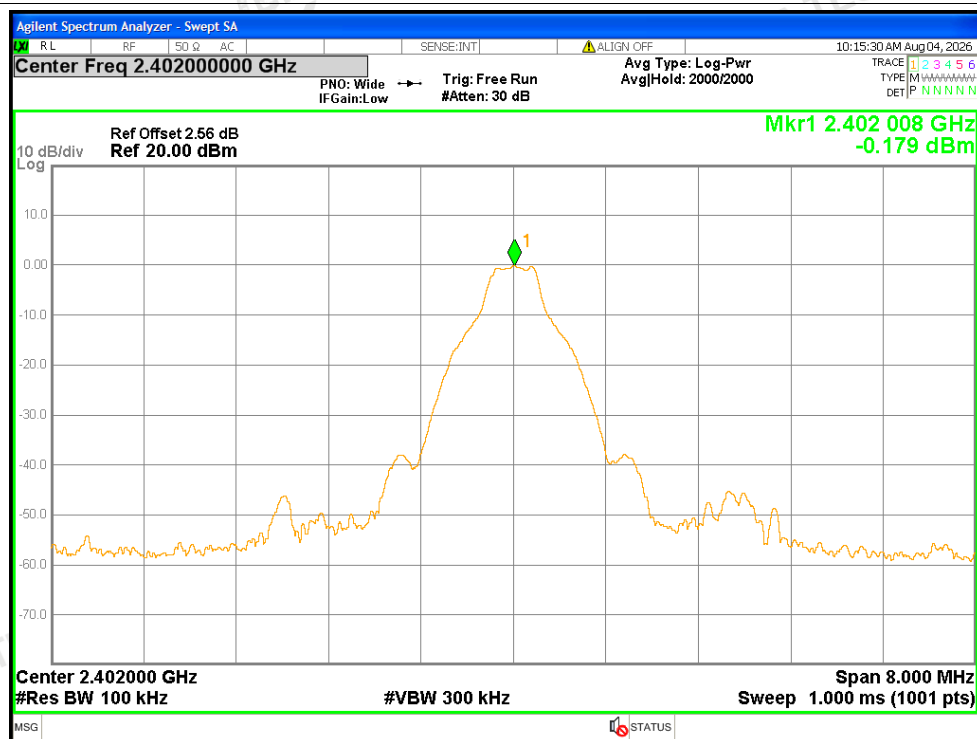


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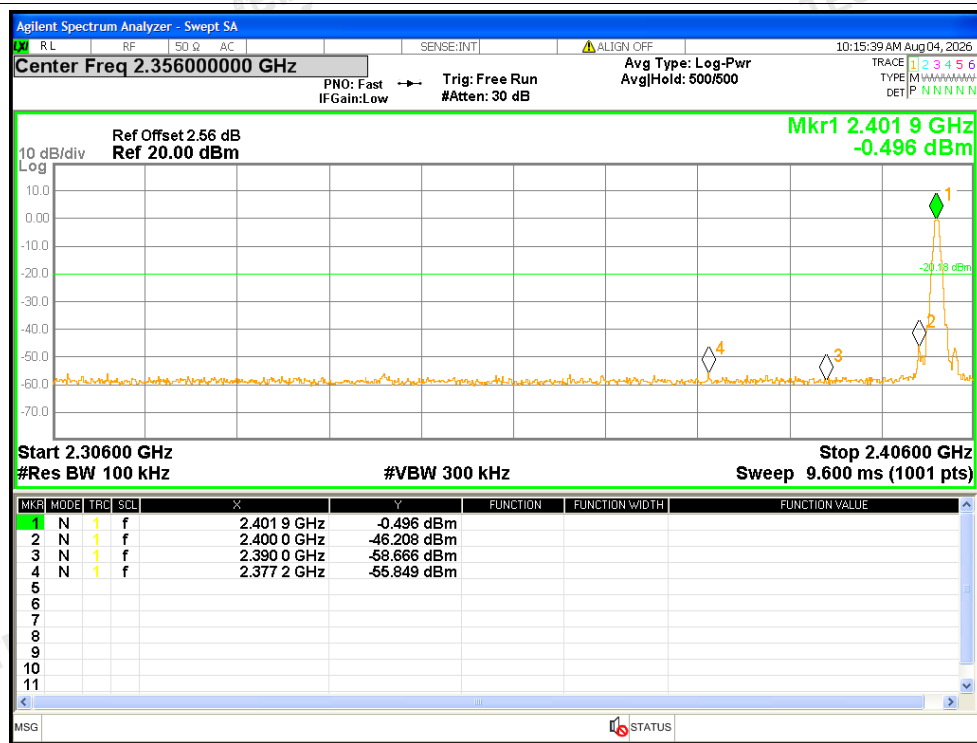
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Test Graphs

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



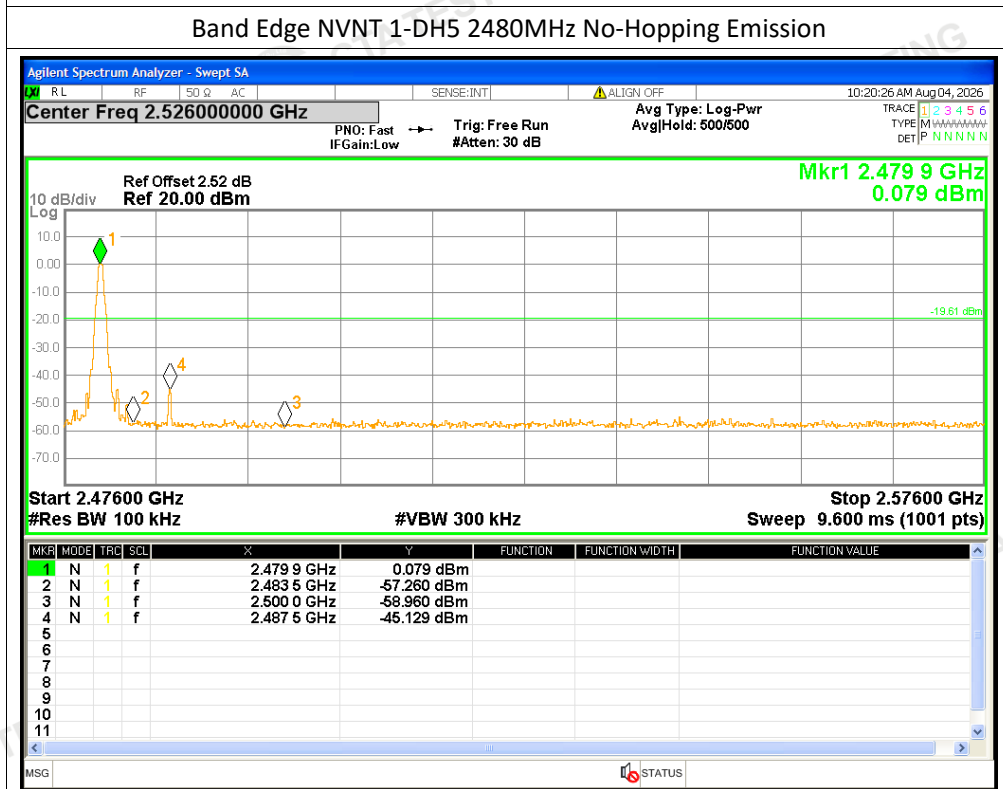
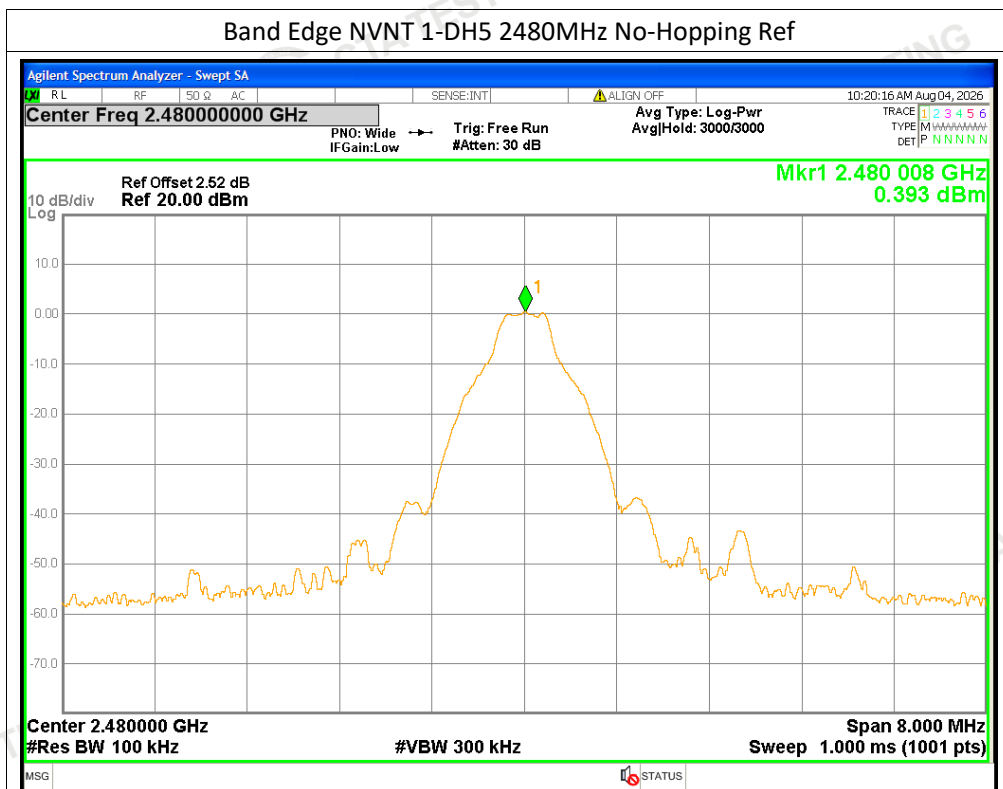
Band Edge NVNT 1-DH5 2402MHz No-Hopping Emission





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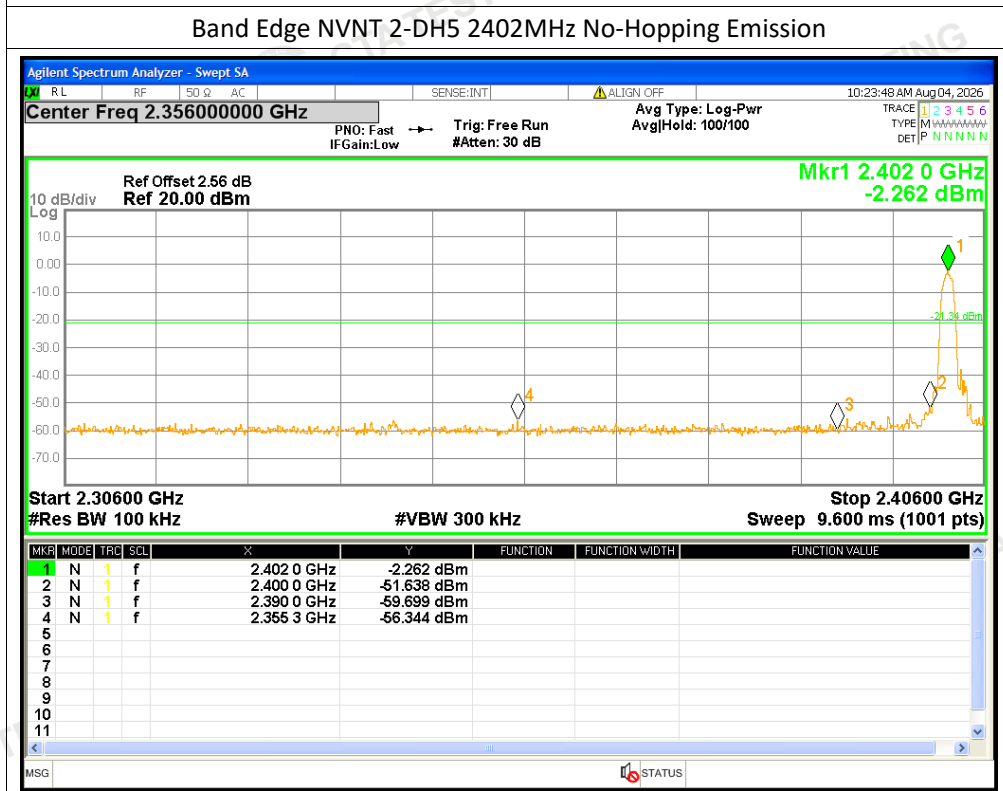
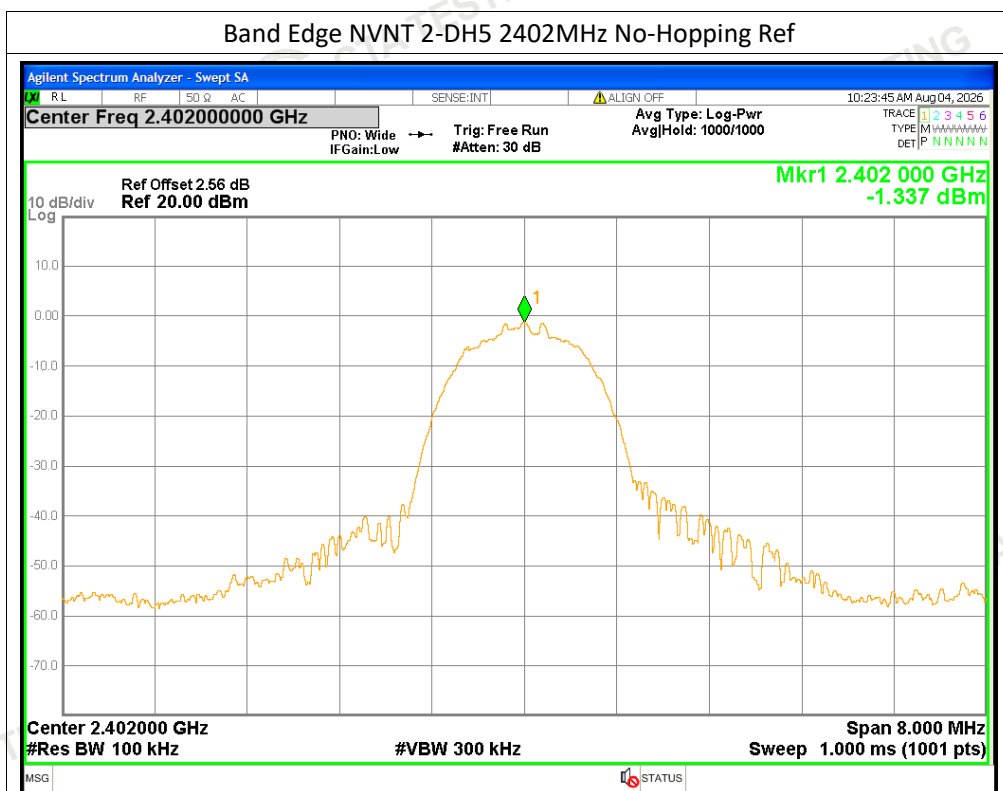
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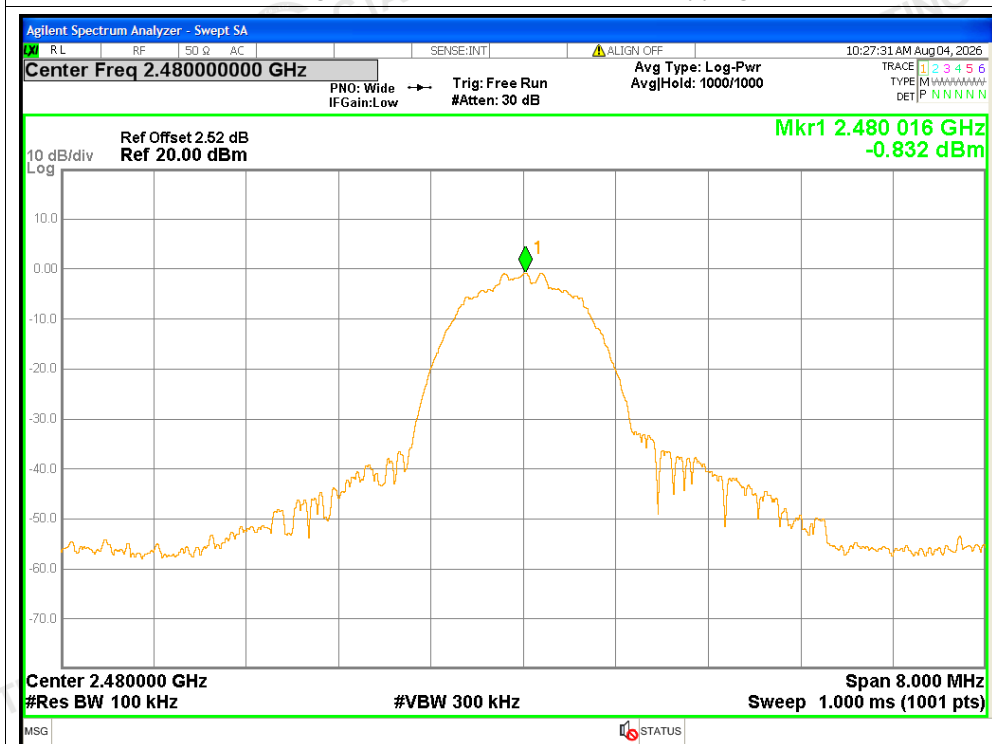




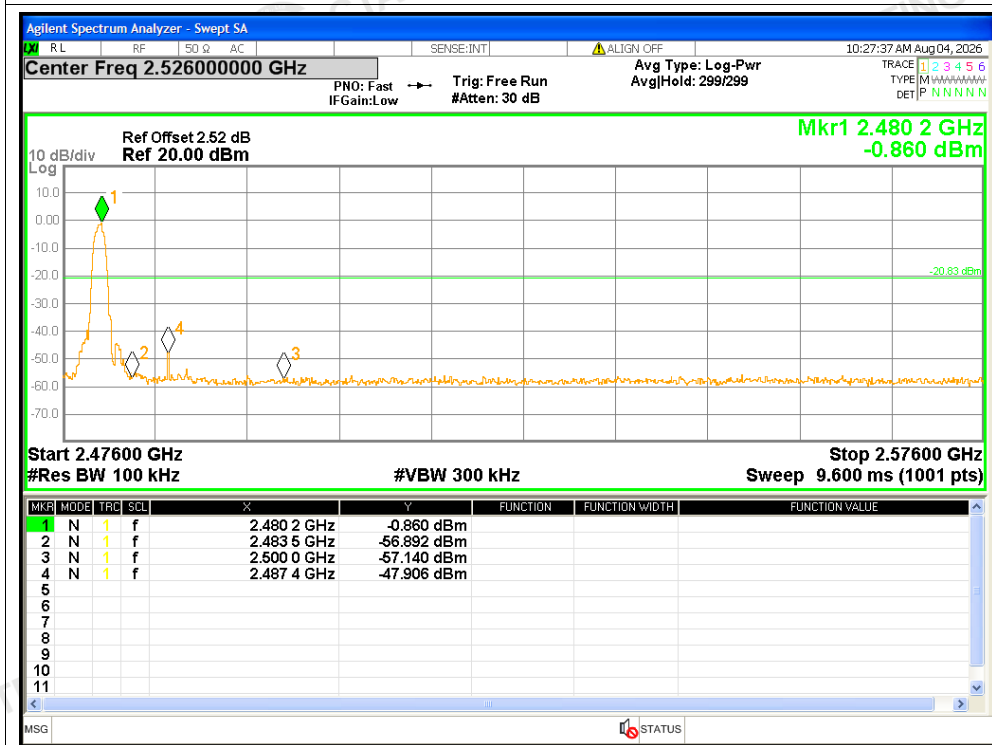
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Band Edge NVNT 2-DH5 2480MHz No-Hopping Ref



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

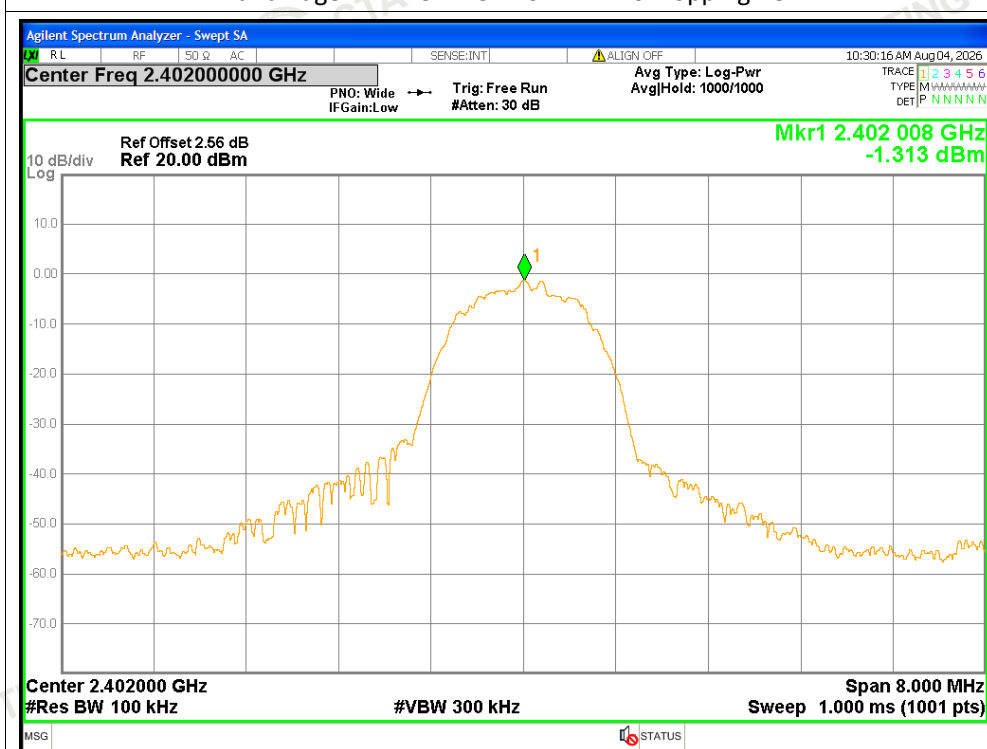




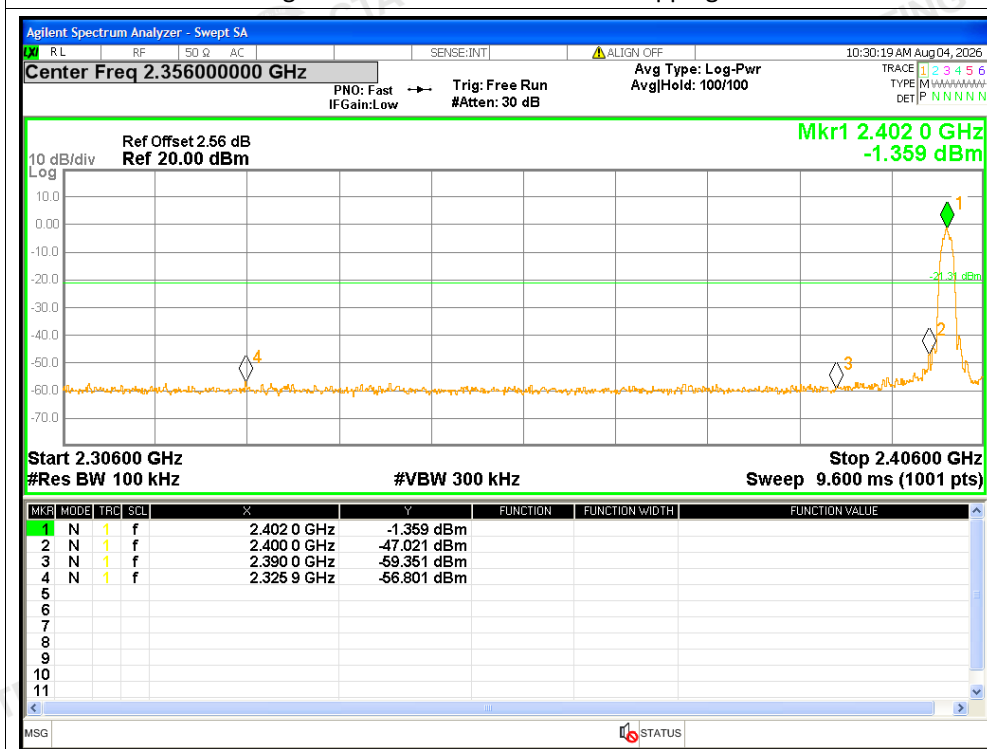
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Band Edge NVNT 3-DH5 2402MHz No-Hopping Ref



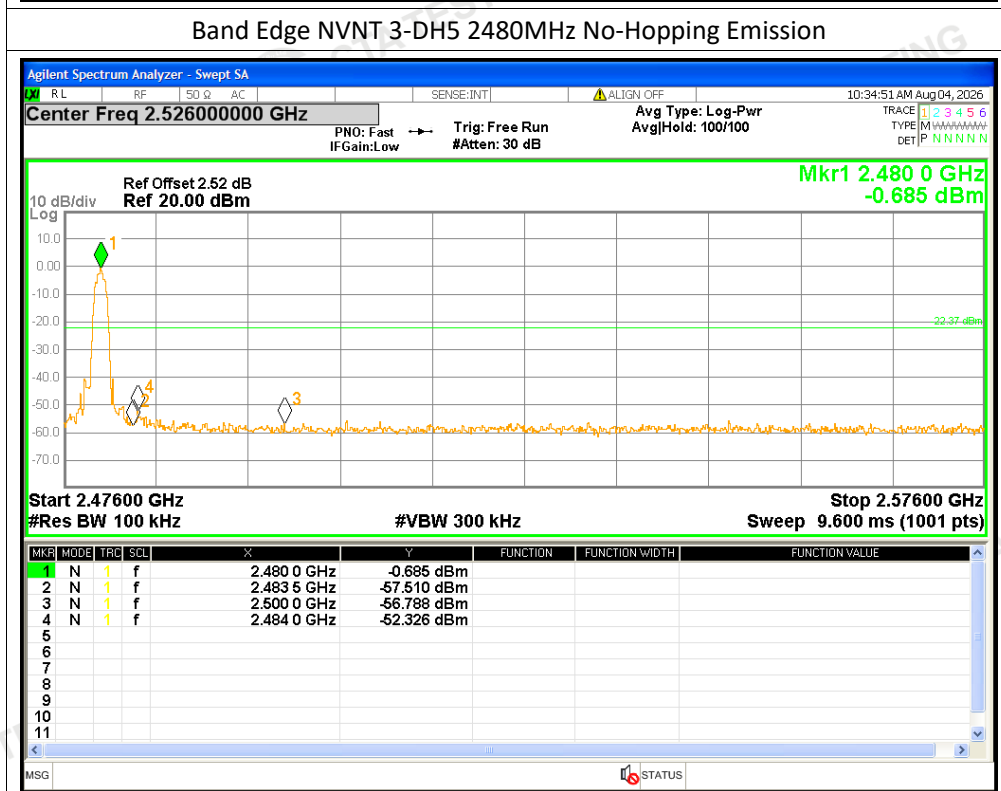
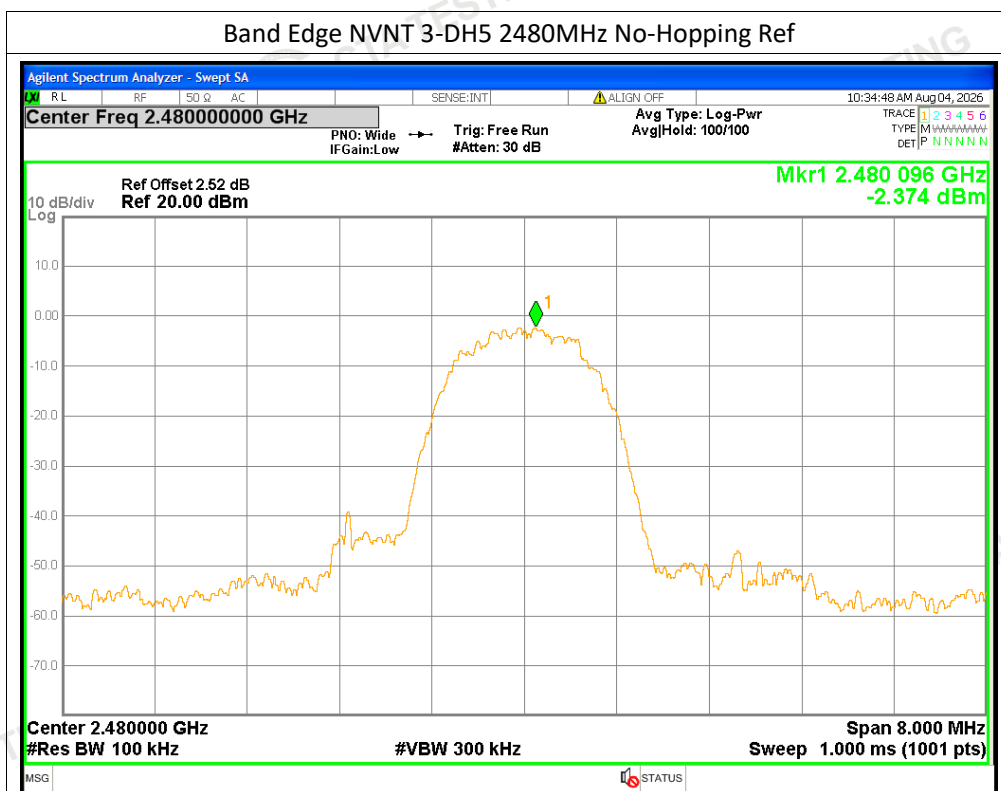
Band Edge NVNT 3-DH5 2402MHz No-Hopping Emission





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Band Edge(Hopping)

Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	Hopping	-53.69	≤ -20	Pass
1-DH5	2480	Hopping	-54.73	≤ -20	Pass
2-DH5	2402	Hopping	-53.77	≤ -20	Pass
2-DH5	2480	Hopping	-54.66	≤ -20	Pass
3-DH5	2402	Hopping	-53.66	≤ -20	Pass
3-DH5	2480	Hopping	-44.33	≤ -20	Pass

Note: Both the left and right ears have been tested, and the worst result recorded was for the left ear.

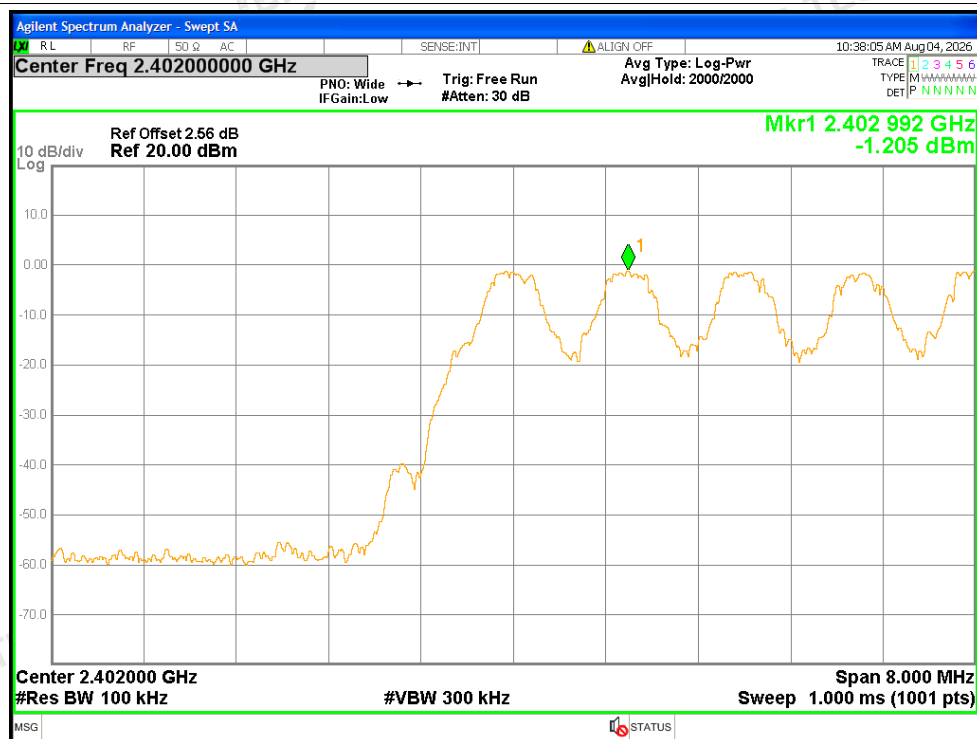


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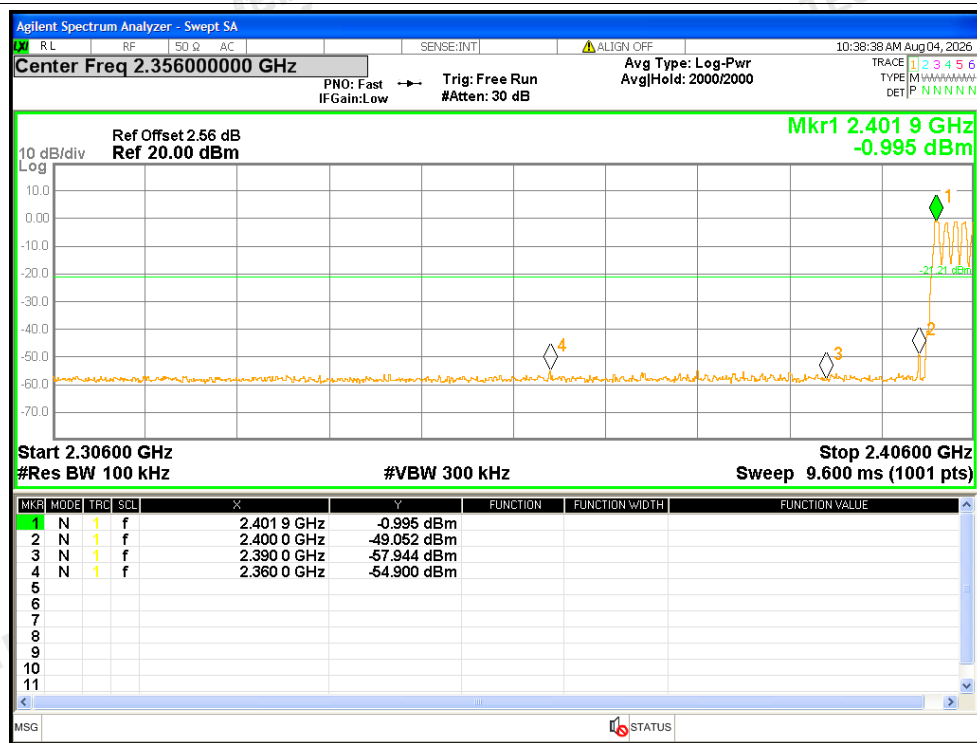
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Test Graphs

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



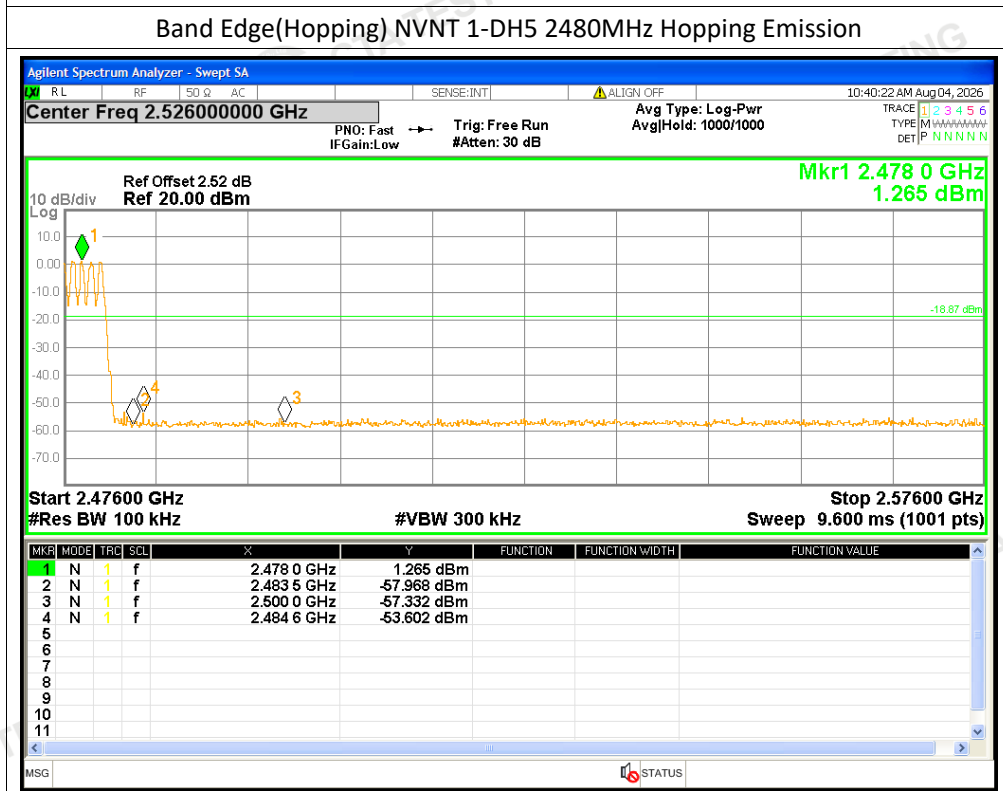
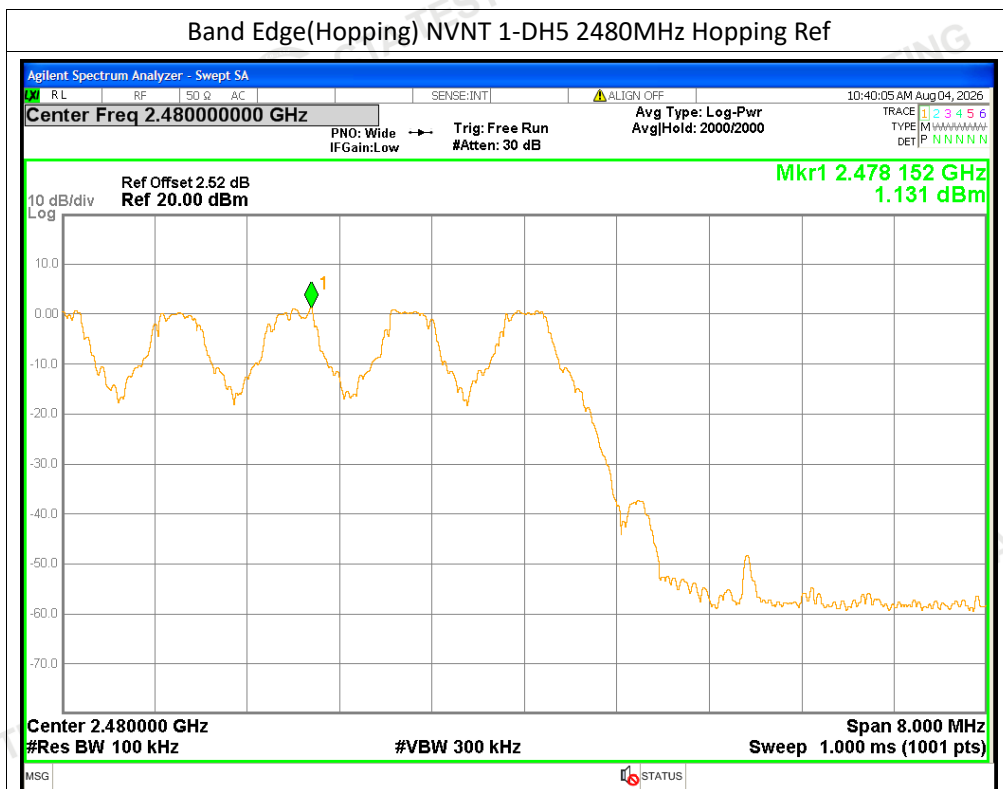
Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Emission





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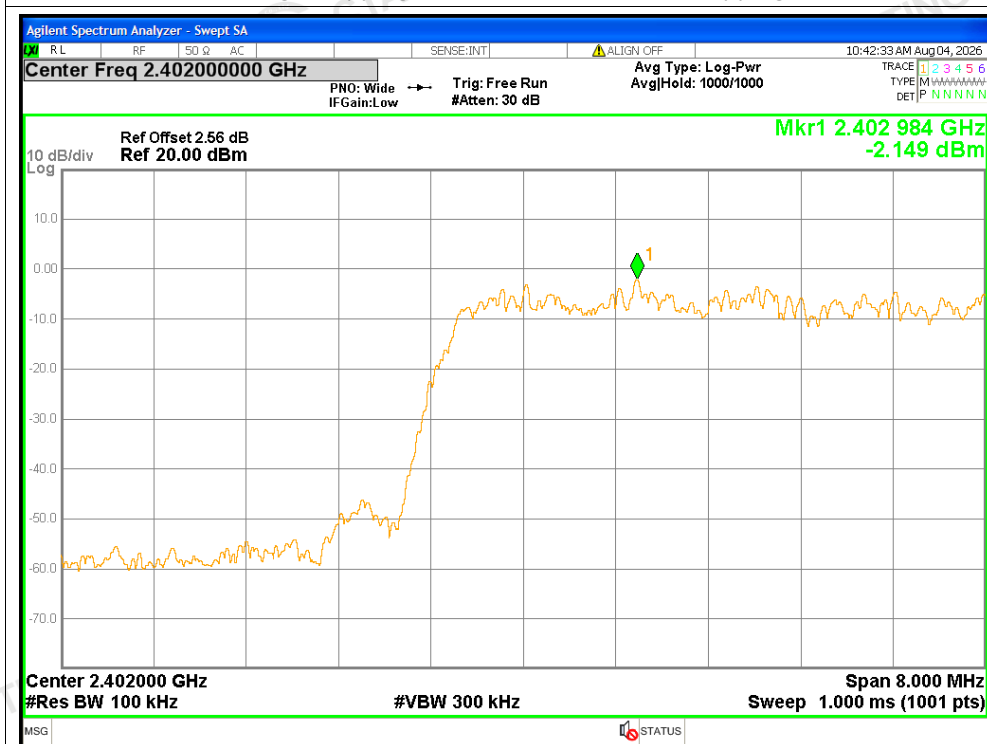




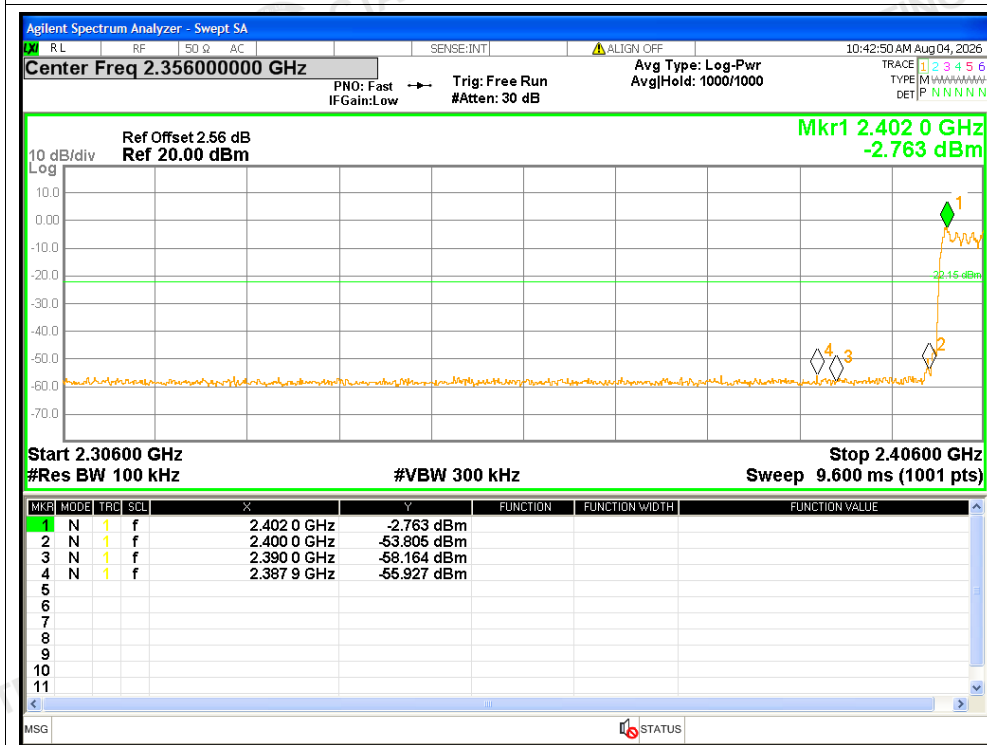
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Ref



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

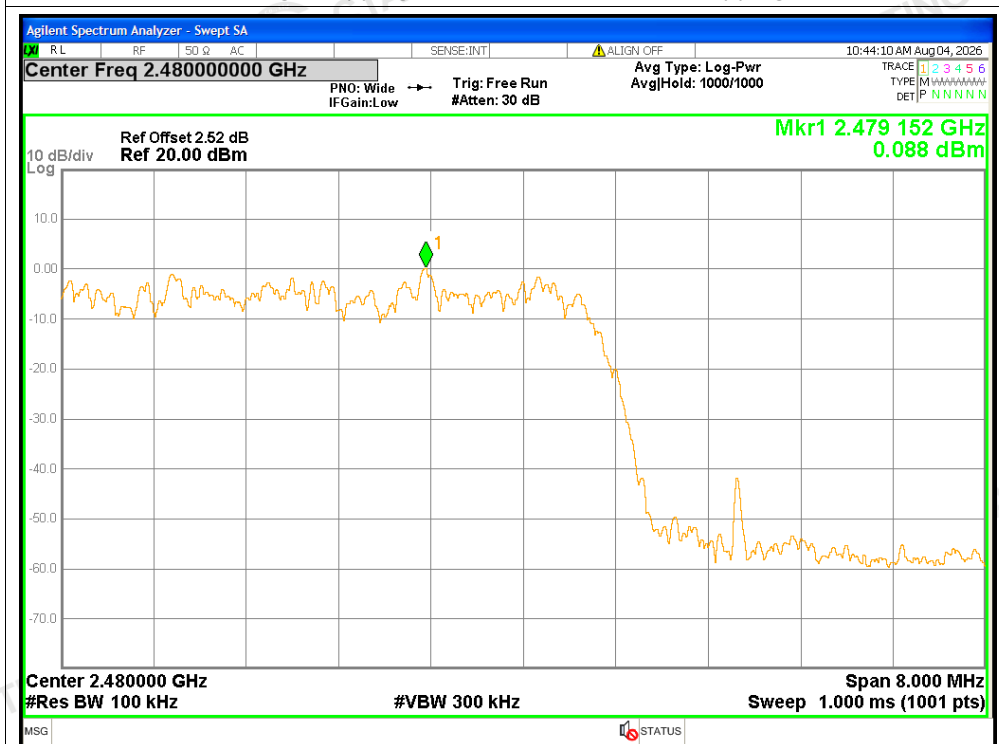




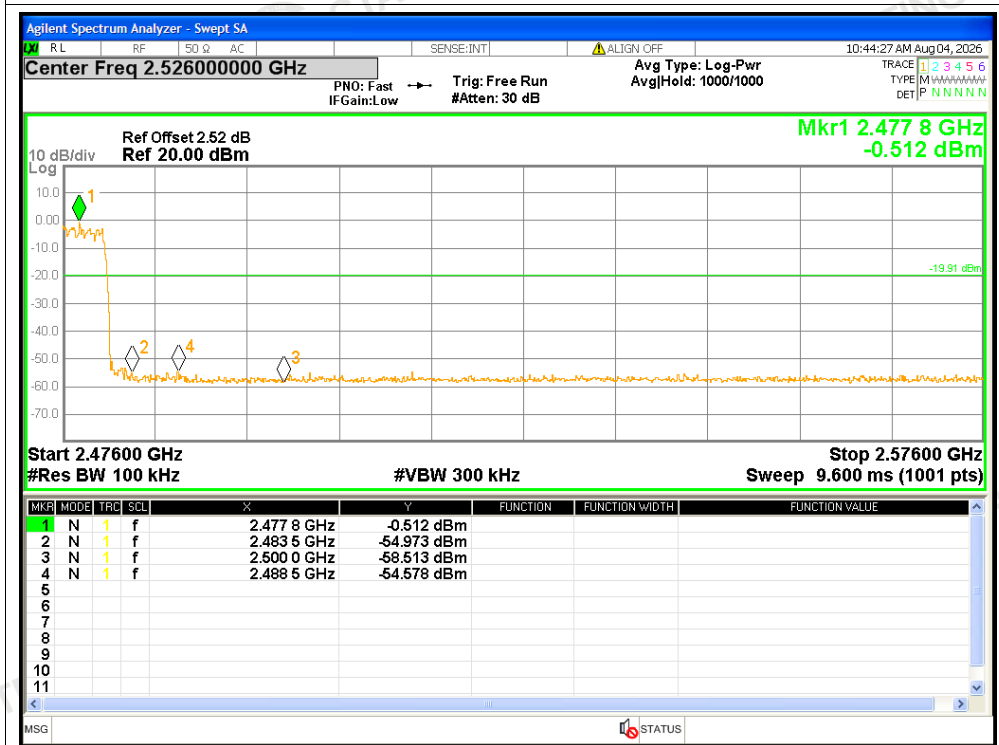
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Ref



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

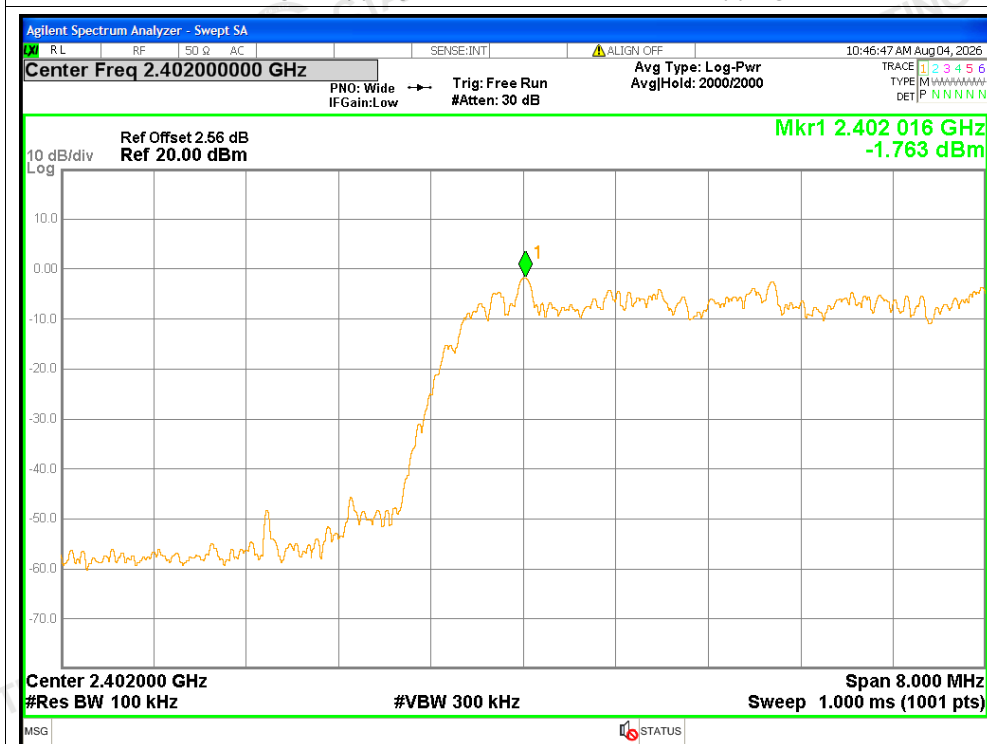




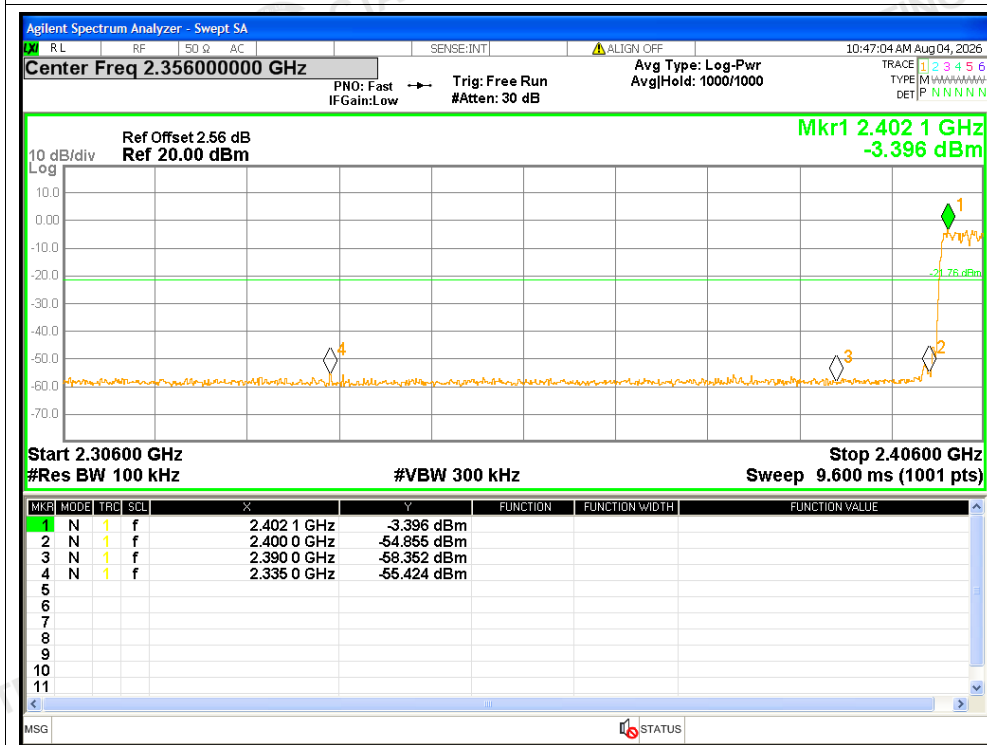
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Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Ref



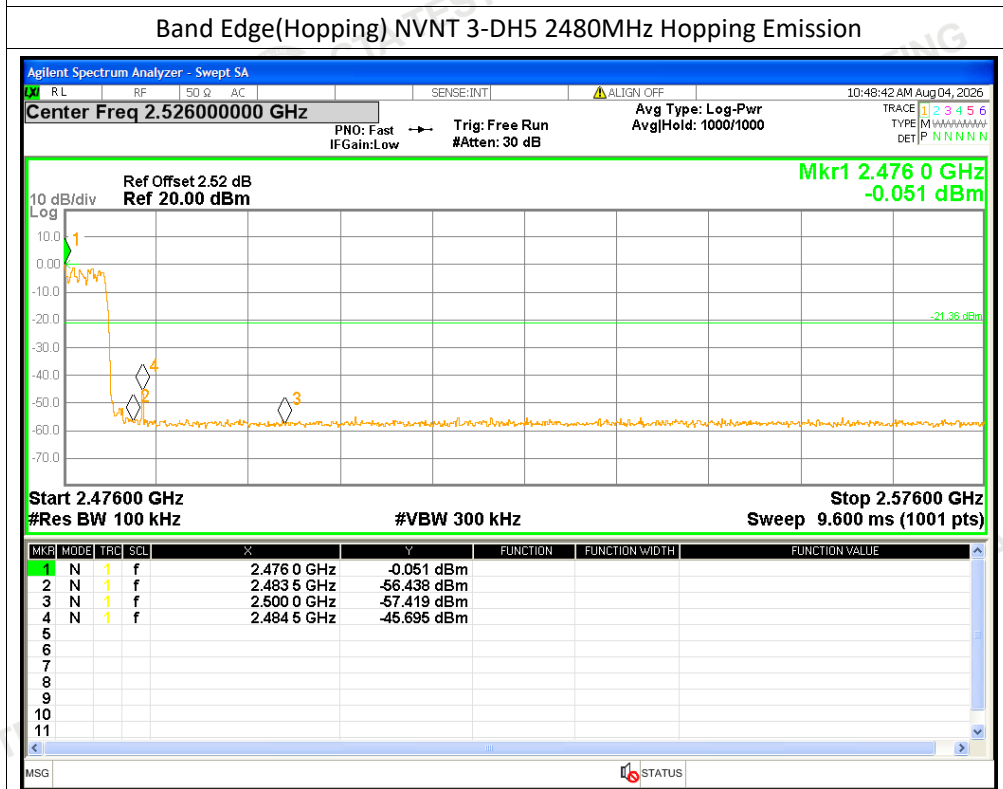
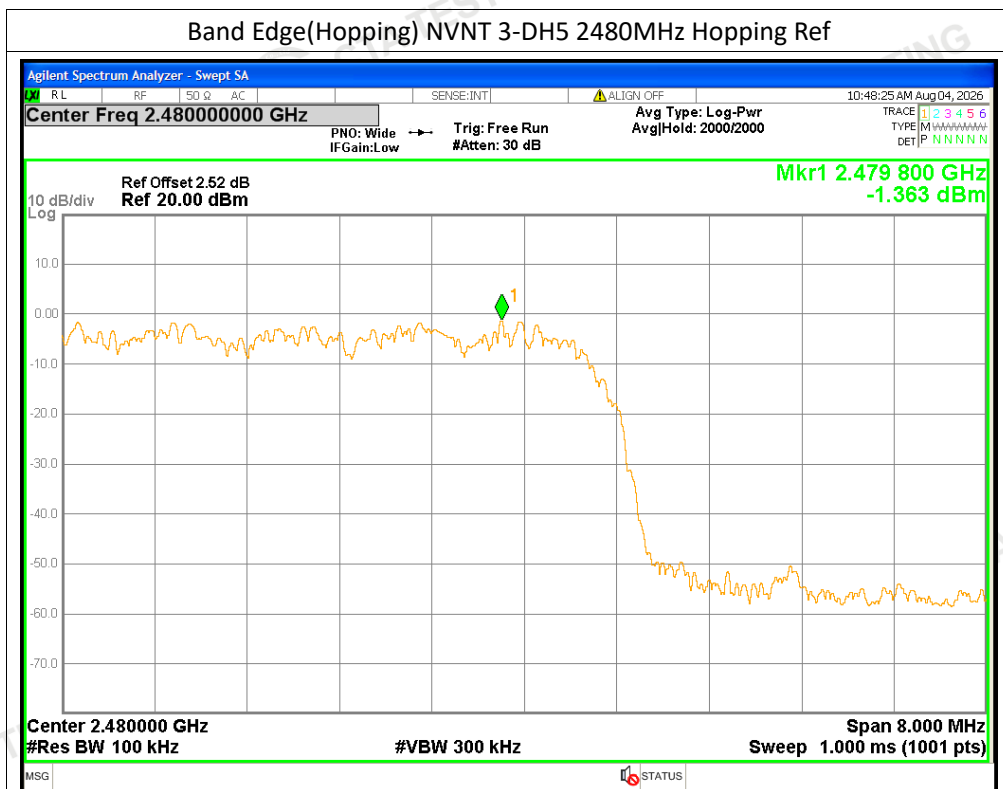
Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Emission





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Conducted RF Spurious Emission

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	-40.1	≤ -20	Pass
1-DH5	2441	-40.69	≤ -20	Pass
1-DH5	2480	-40.33	≤ -20	Pass
2-DH5	2402	-38.12	≤ -20	Pass
2-DH5	2441	-38.73	≤ -20	Pass
2-DH5	2480	-39.65	≤ -20	Pass
3-DH5	2402	-37.91	≤ -20	Pass
3-DH5	2441	-38.89	≤ -20	Pass
3-DH5	2480	-39.59	≤ -20	Pass

Note: Both the left and right ears have been tested, and the worst result recorded was for the left ear.

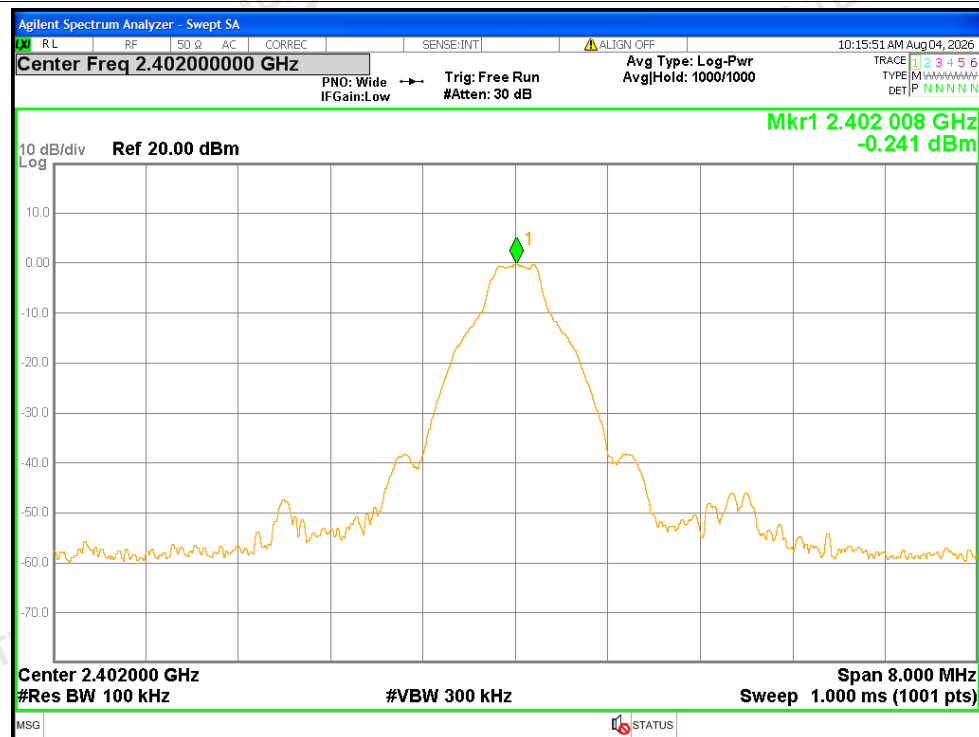


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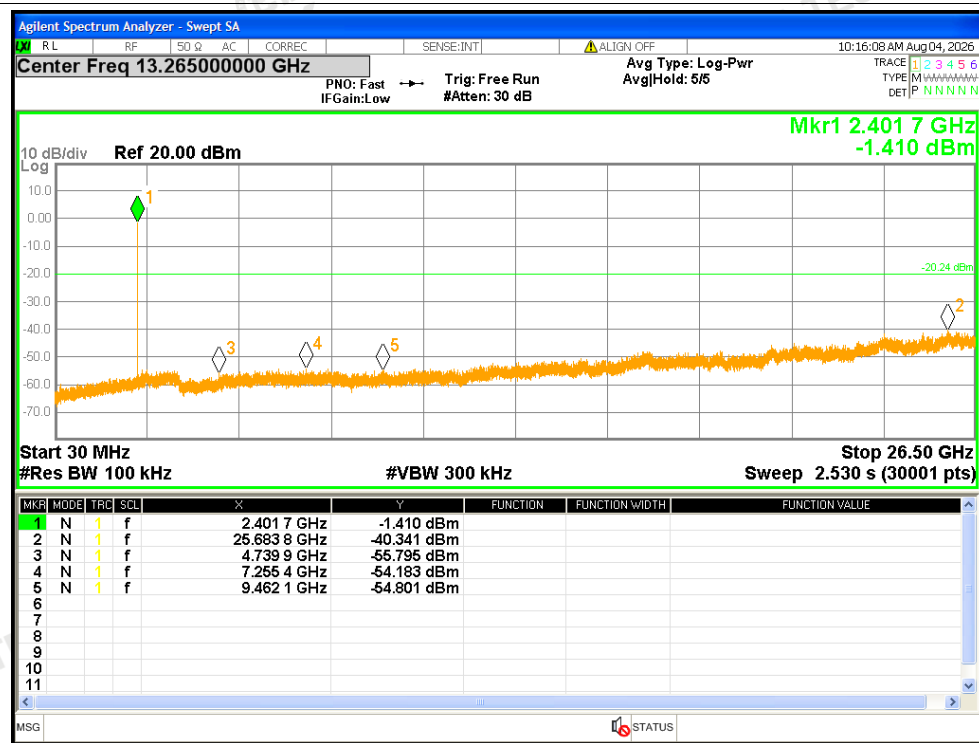
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Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ref



Tx. Spurious NVNT 1-DH5 2402MHz Emission

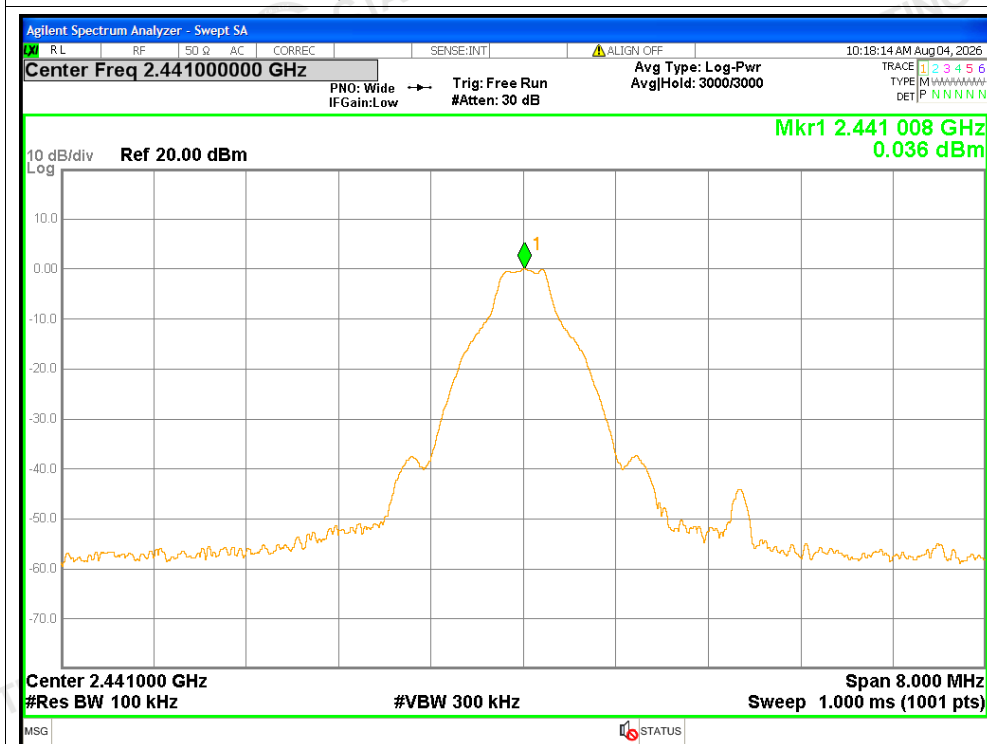




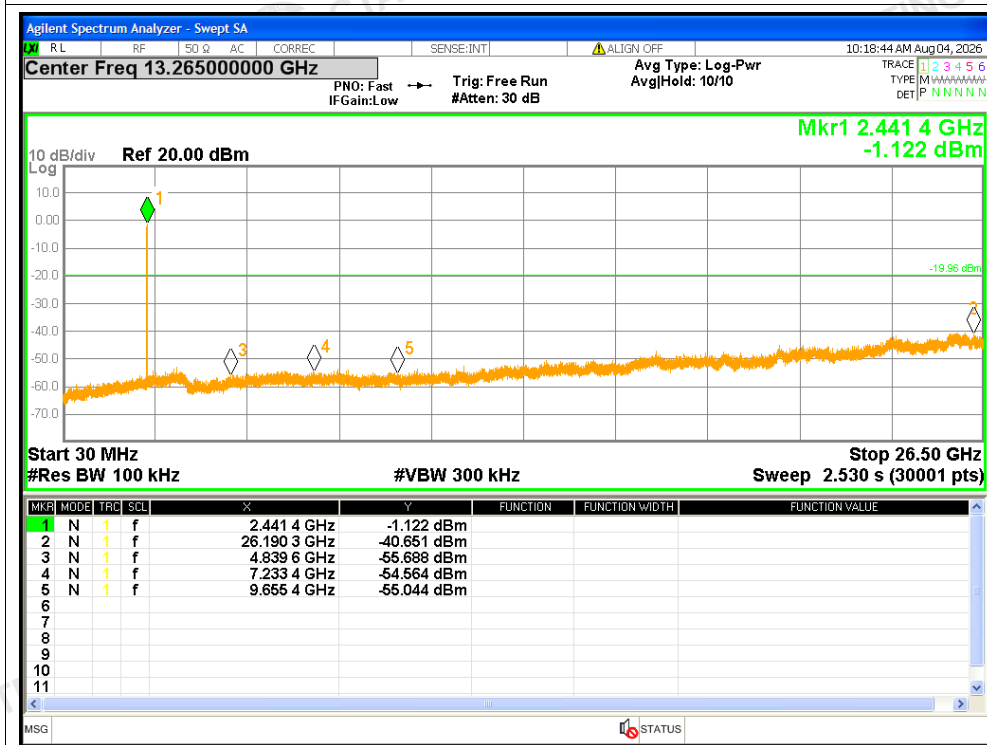
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Tx. Spurious NVNT 1-DH5 2441MHz Ref



Tx. Spurious NVNT 1-DH5 2441MHz Emission

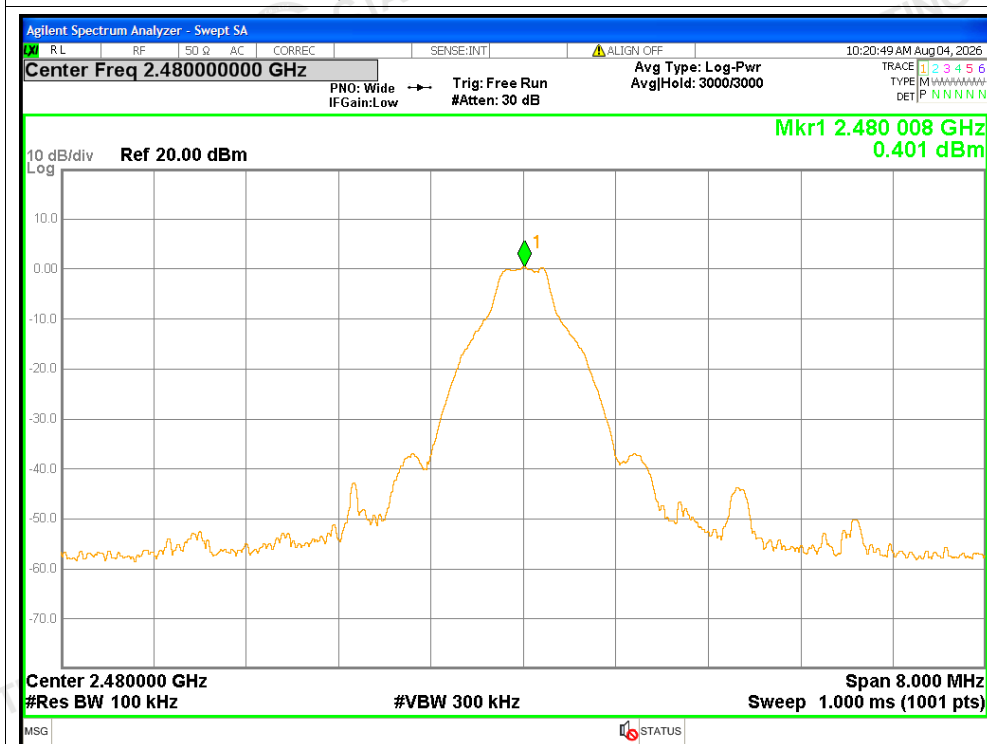




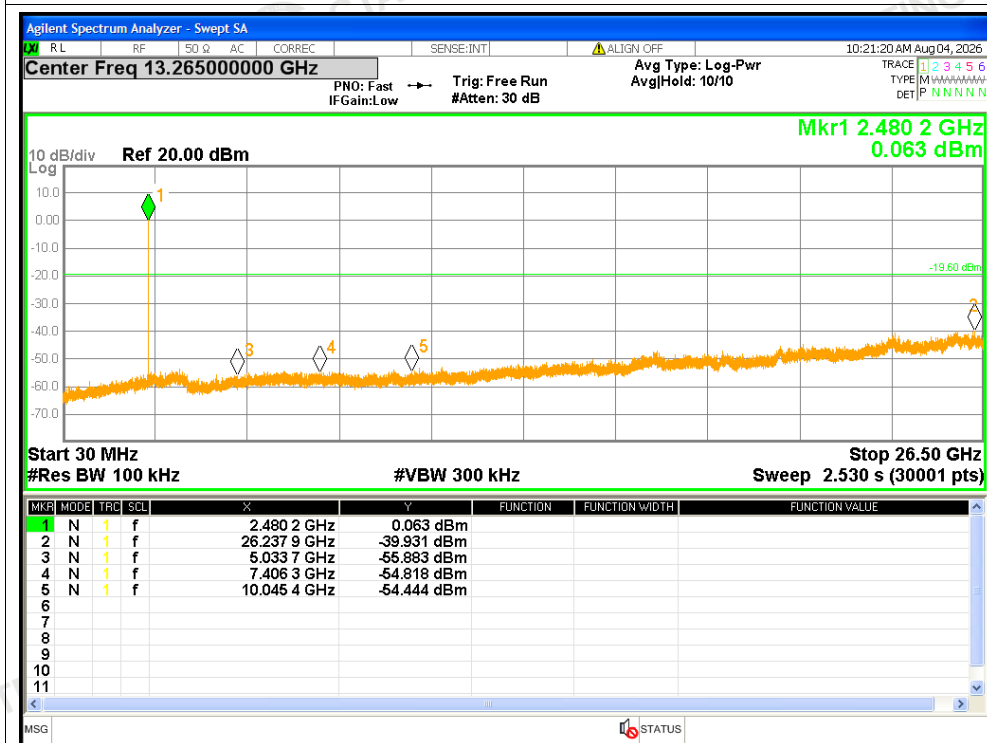
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Tx. Spurious NVNT 1-DH5 2480MHz Ref



Tx. Spurious NVNT 1-DH5 2480MHz Emission

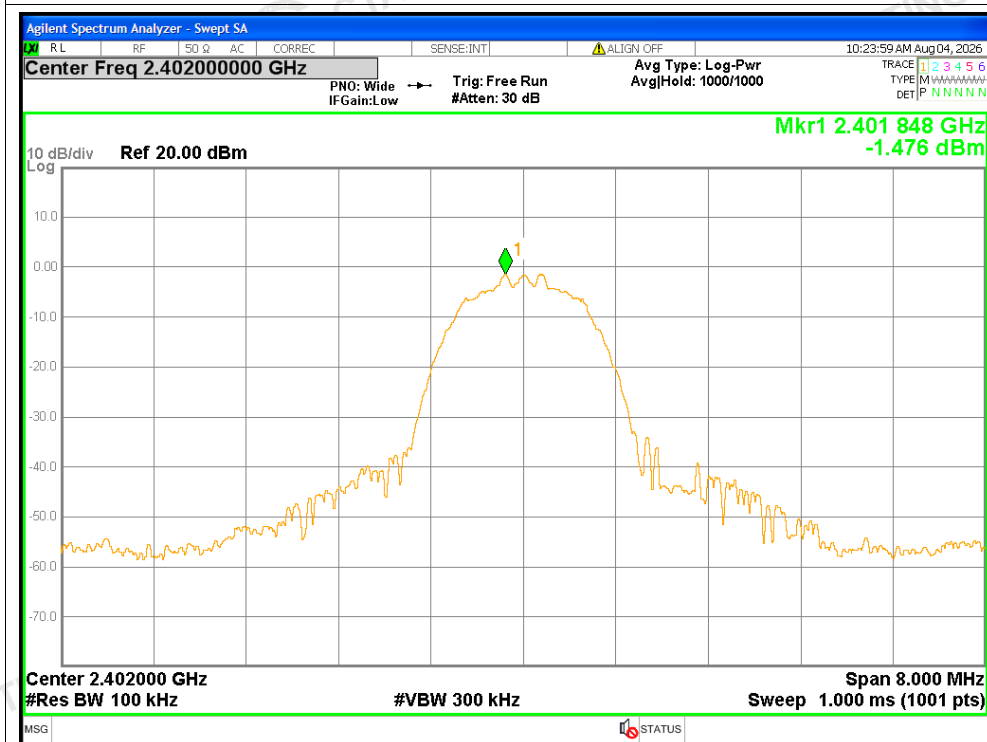




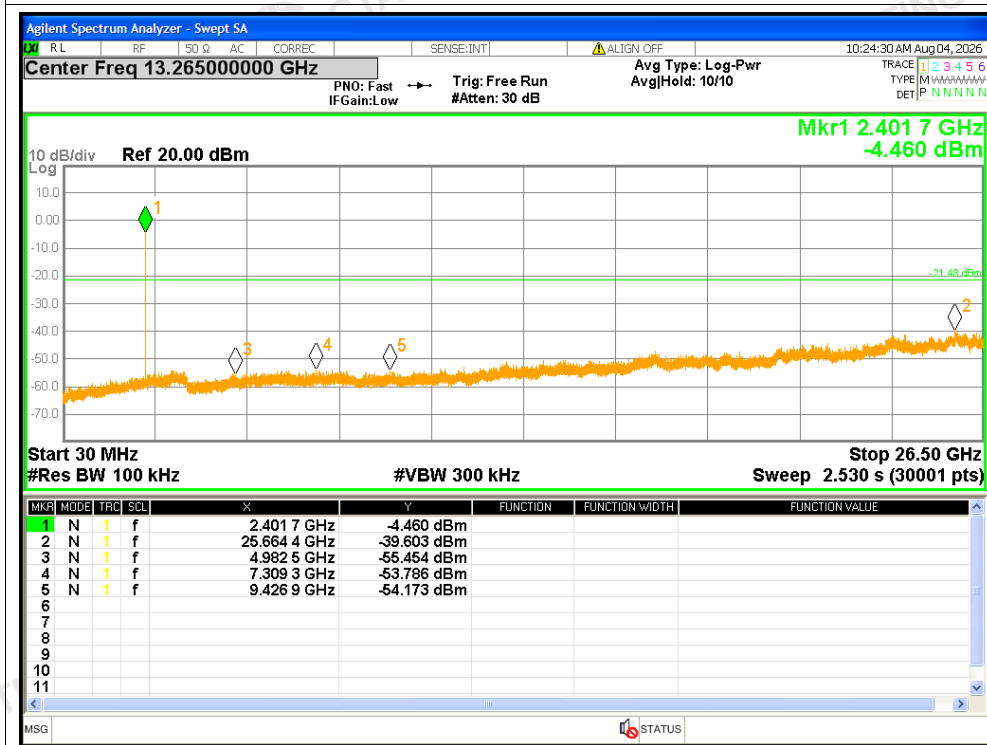
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Tx. Spurious NVNT 2-DH5 2402MHz Ref



Tx. Spurious NVNT 2-DH5 2402MHz Emission

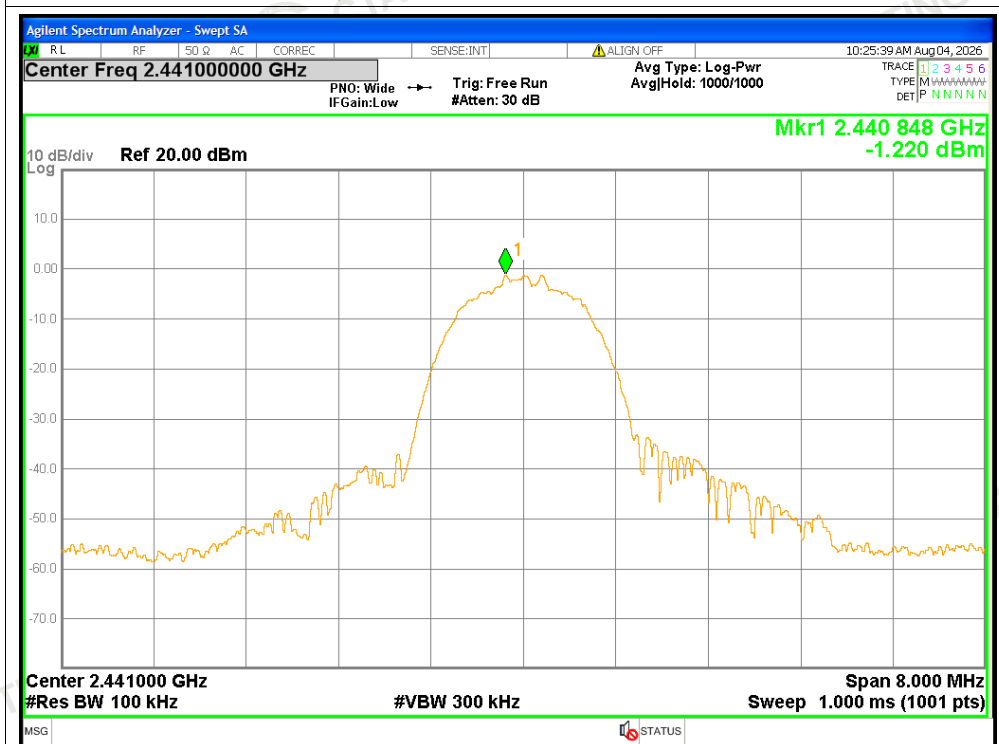




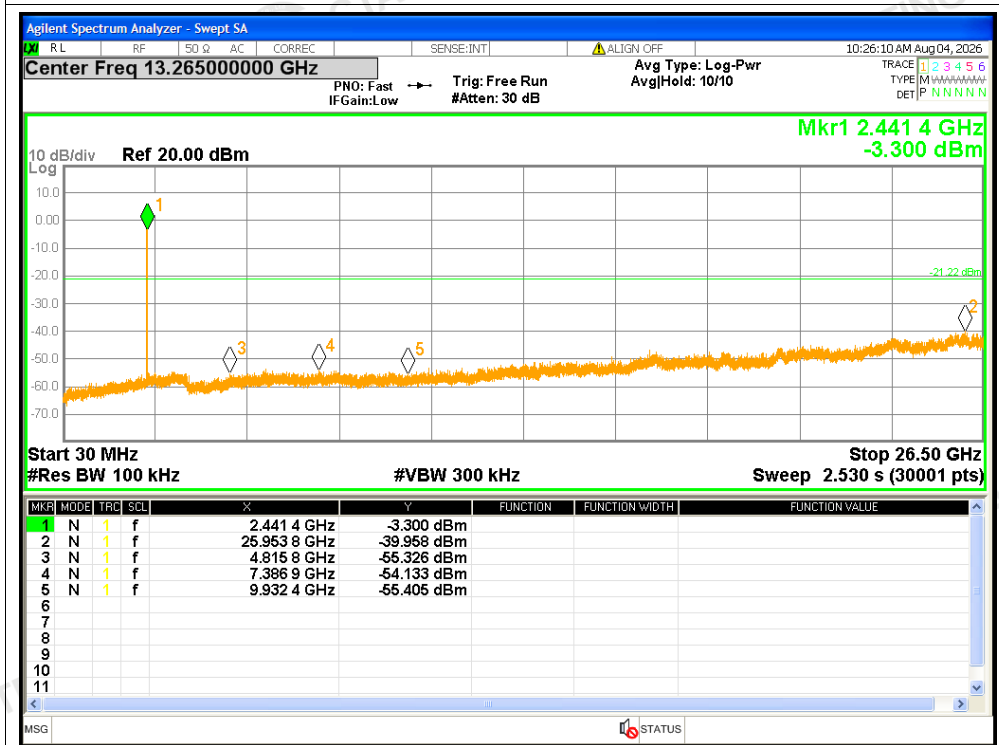
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Tx. Spurious NVNT 2-DH5 2441MHz Ref



Tx. Spurious NVNT 2-DH5 2441MHz Emission

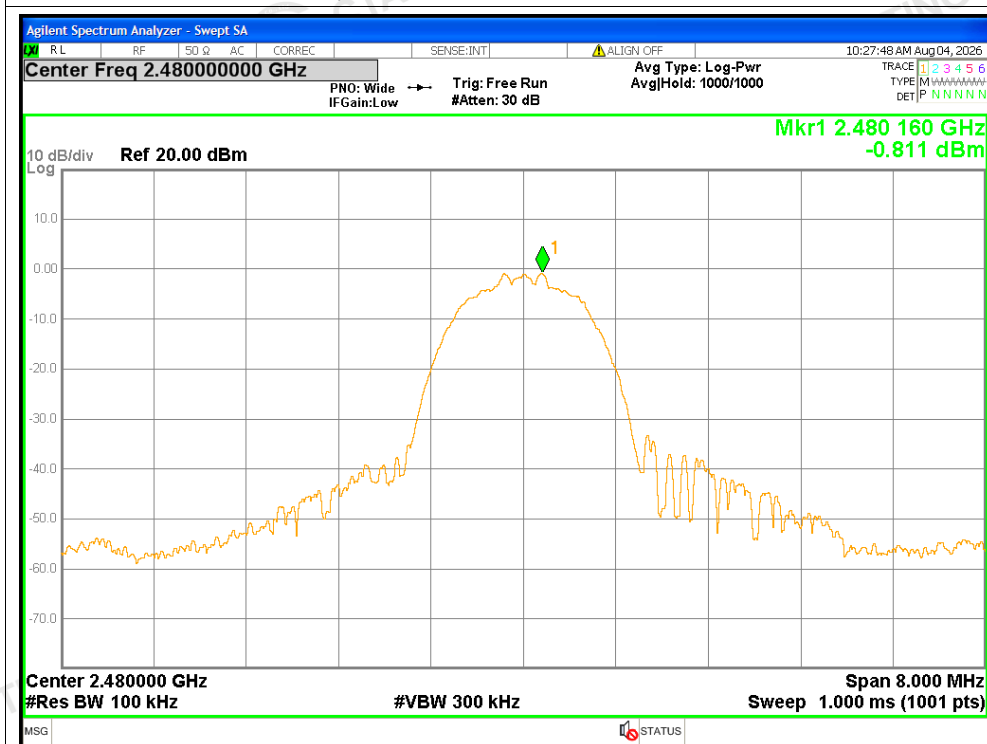




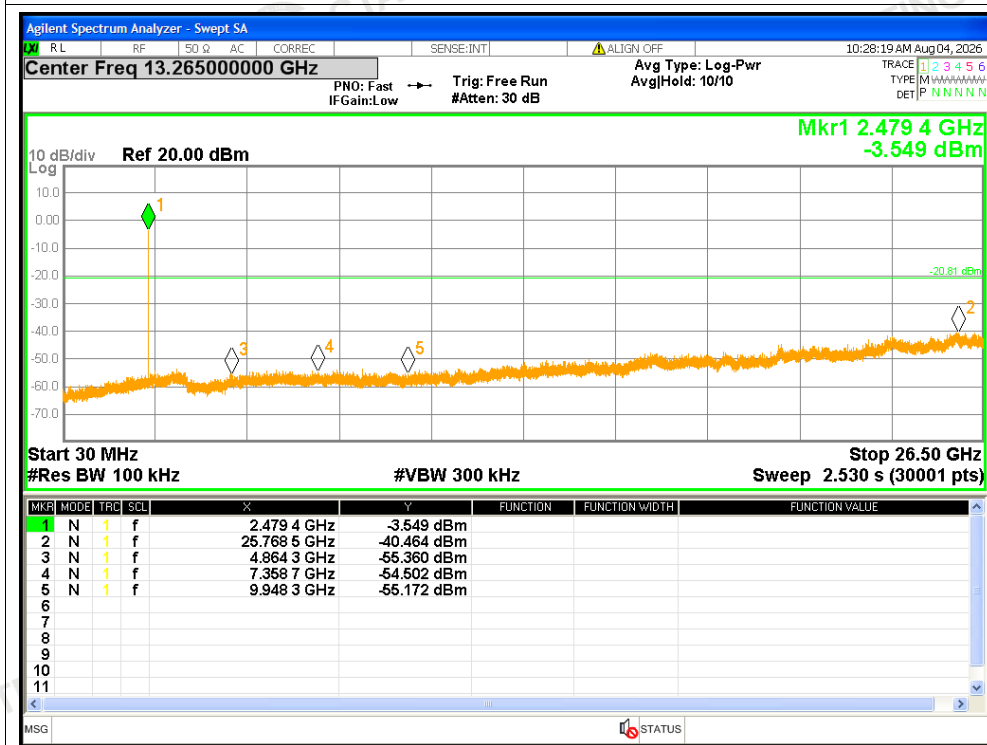
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Tx. Spurious NVNT 2-DH5 2480MHz Ref



Tx. Spurious NVNT 2-DH5 2480MHz Emission

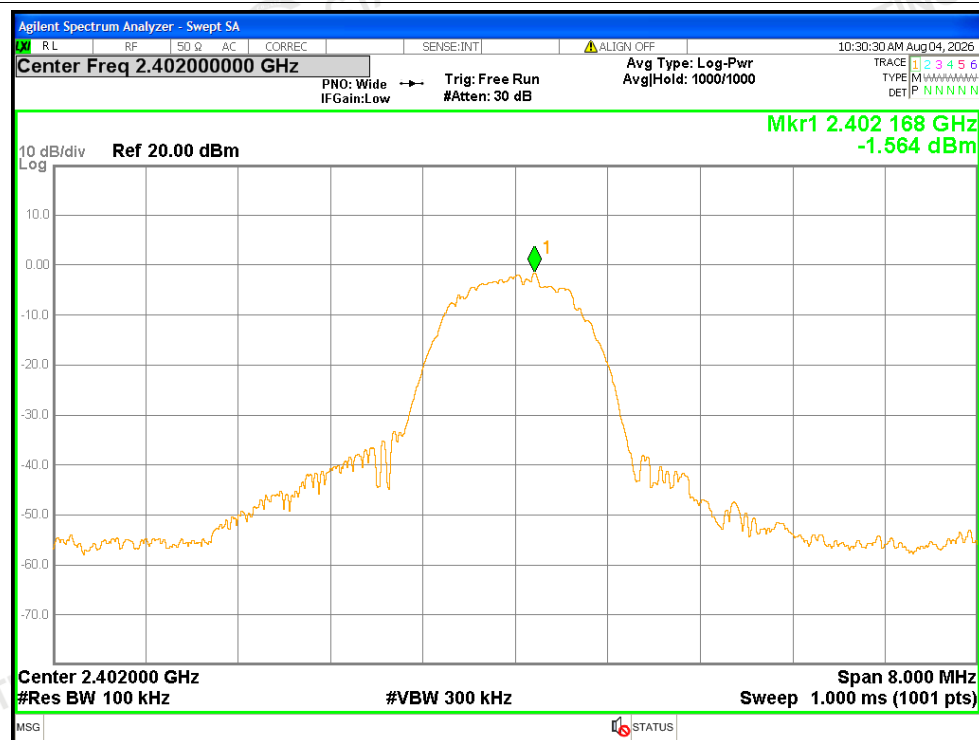




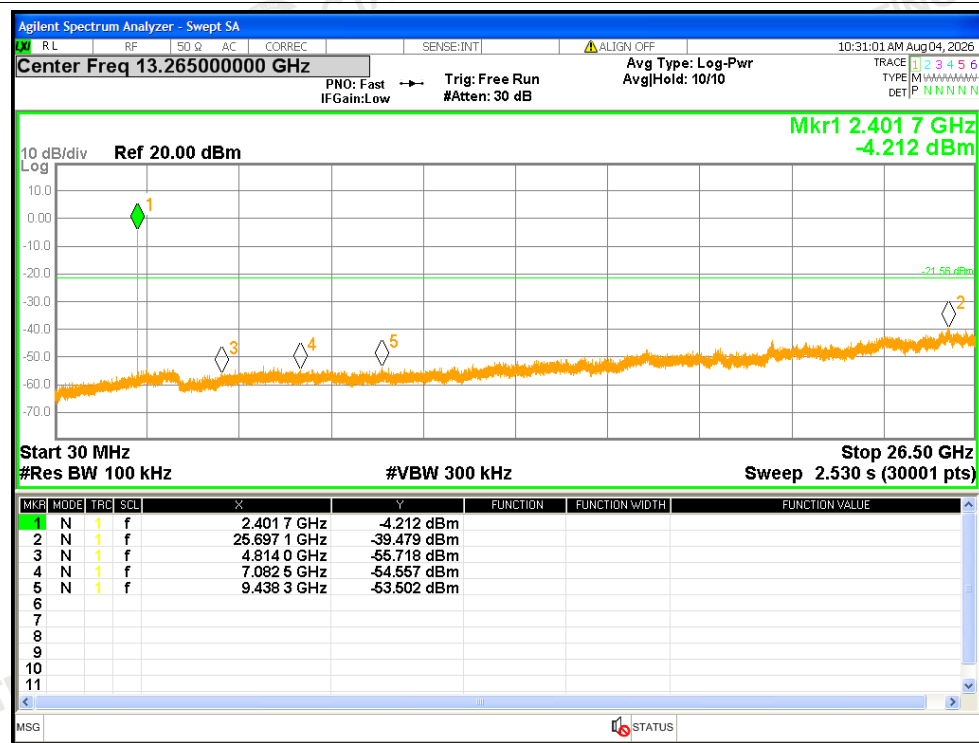
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Tx. Spurious NVNT 3-DH5 2402MHz Ref



Tx. Spurious NVNT 3-DH5 2402MHz Emission

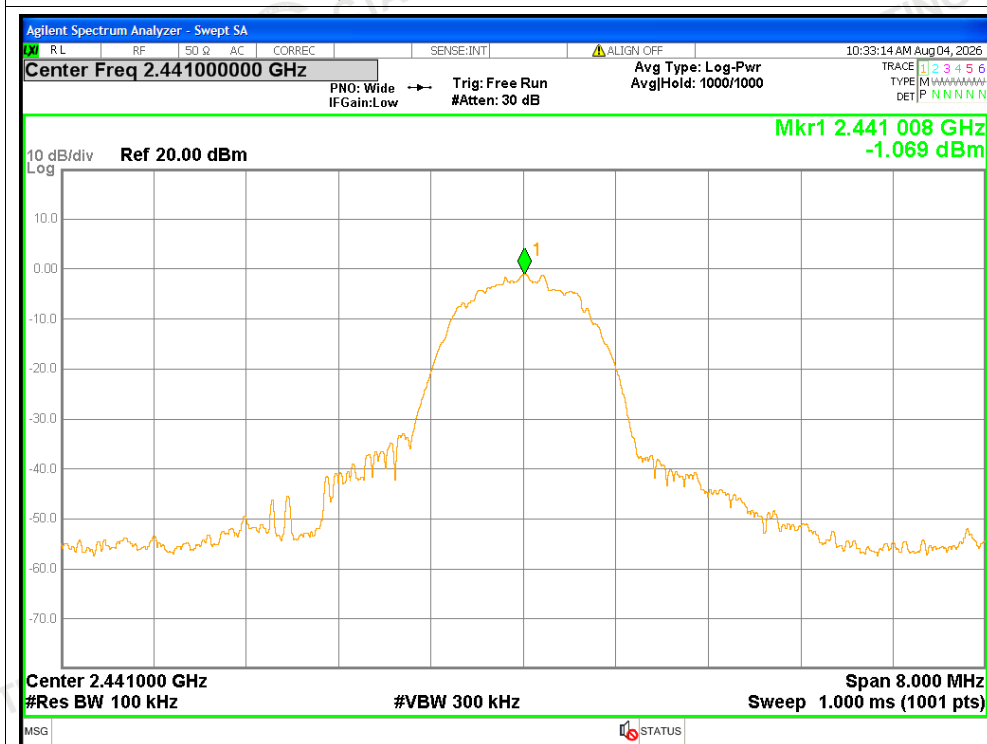




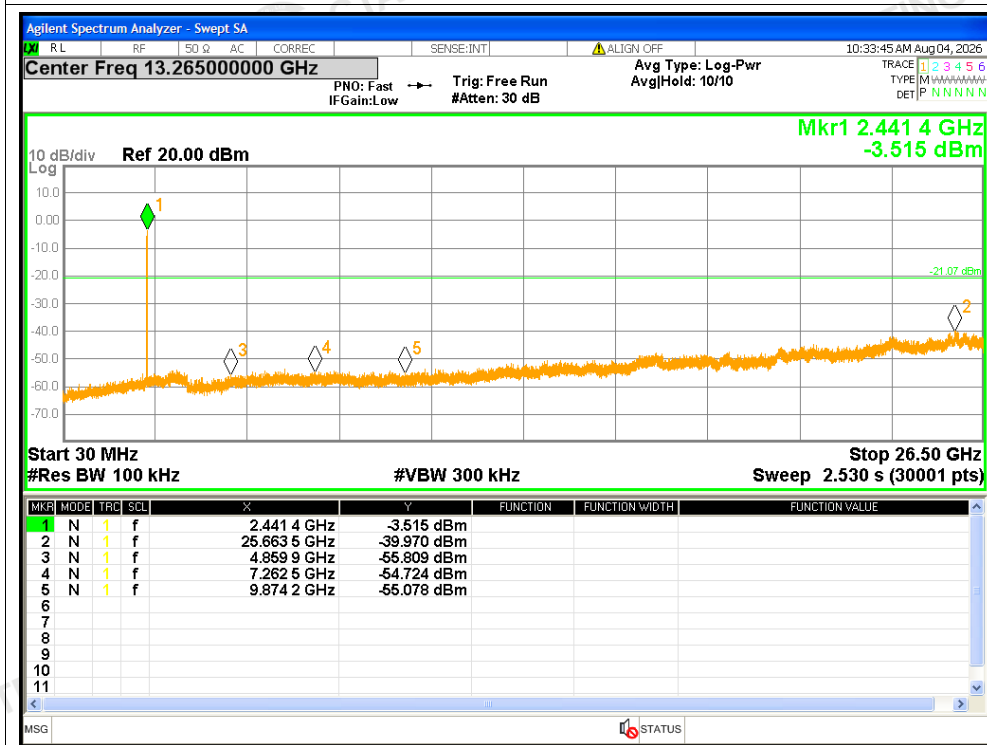
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Tx. Spurious NVNT 3-DH5 2441MHz Ref



Tx. Spurious NVNT 3-DH5 2441MHz Emission

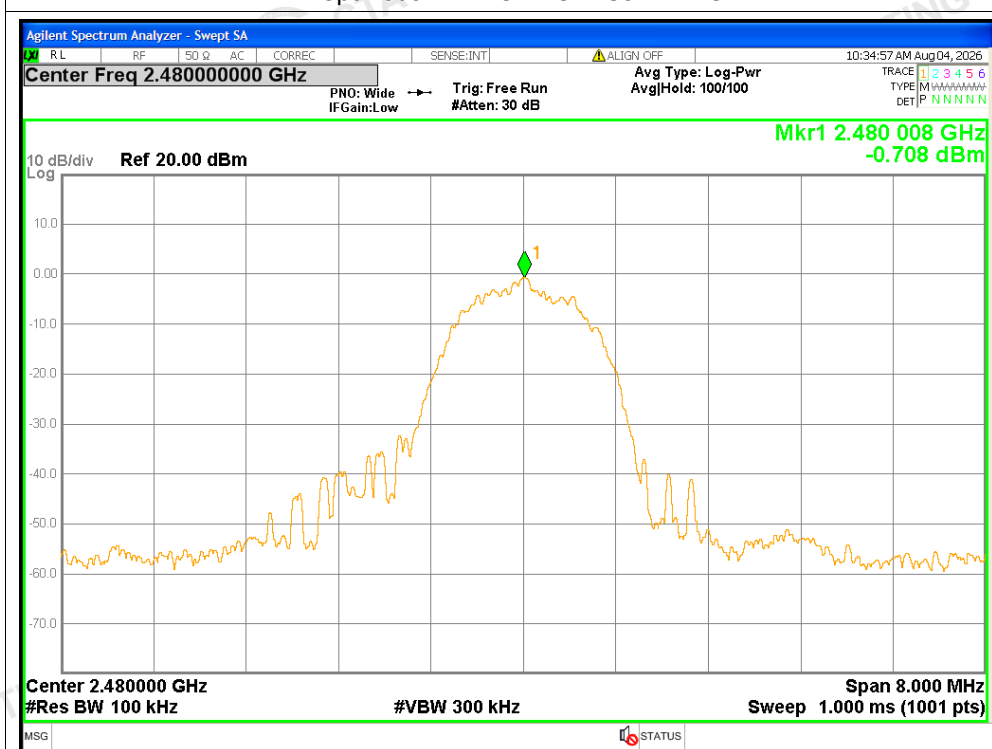




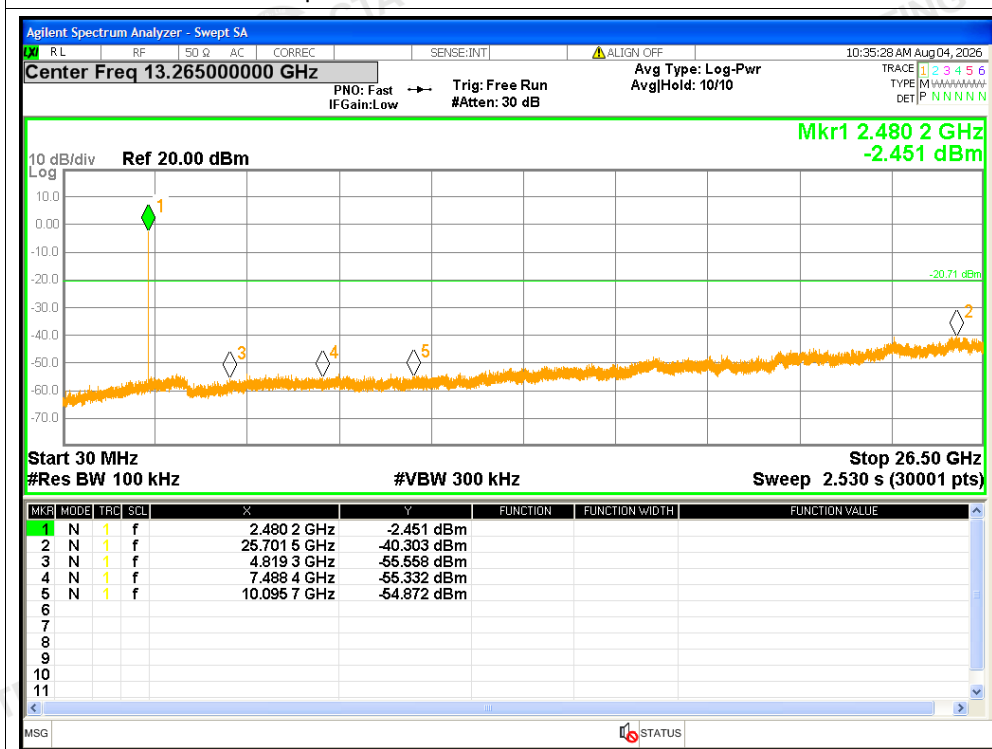
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Tx. Spurious NVNT 3-DH5 2480MHz Ref



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	-49.53	2.8	0	48.53	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2310	-58.6	2.8	1.14	40.6	Average	<=54	Pass
1-DH5	2402	No-Hopping	2357.04	-47.19	2.8	0	50.87	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2342.064	-56.67	2.8	1.14	42.53	Average	<=54	Pass
1-DH5	2402	No-Hopping	2390	-49.46	2.8	0	48.6	Peak	<=74	Pass
1-DH5	2402	No-Hopping	2390	-57.7	2.8	1.14	41.5	Average	<=54	Pass
1-DH5	2480	No-Hopping	2483.5	-49.65	2.8	0	48.41	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2483.5	-56.7	2.8	1.14	42.5	Average	<=54	Pass
1-DH5	2480	No-Hopping	2487.352	-42.65	2.8	0	55.41	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2487.736	-55.9	2.8	1.14	43.3	Average	<=54	Pass
1-DH5	2480	No-Hopping	2500	-48.51	2.8	0	49.55	Peak	<=74	Pass
1-DH5	2480	No-Hopping	2500	-57.31	2.8	1.14	41.89	Average	<=54	Pass
2-DH5	2402	No-Hopping	2310	-49.39	2.8	0	48.67	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2310	-58.46	2.8	1.13	40.73	Average	<=54	Pass
2-DH5	2402	No-Hopping	2389.968	-47.25	2.8	0	50.81	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2342.16	-57.26	2.8	1.13	41.93	Average	<=54	Pass
2-DH5	2402	No-Hopping	2390	-49.08	2.8	0	48.98	Peak	<=74	Pass
2-DH5	2402	No-Hopping	2390	-58.38	2.8	1.13	40.81	Average	<=54	Pass
2-DH5	2480	No-Hopping	2483.5	-48.13	2.8	0	49.93	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2483.5	-54.84	2.8	1.13	44.35	Average	<=54	Pass
2-DH5	2480	No-Hopping	2487.424	-40.94	2.8	0	57.12	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2483.512	-54.84	2.8	1.13	44.35	Average	<=54	Pass
2-DH5	2480	No-Hopping	2500	-49.45	2.8	0	48.61	Peak	<=74	Pass
2-DH5	2480	No-Hopping	2500	-57.62	2.8	1.13	41.57	Average	<=54	Pass
3-DH5	2402	No-Hopping	2310	-49.4	2.8	0	48.66	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2310	-58.72	2.8	1.12	40.46	Average	<=54	Pass
3-DH5	2402	No-Hopping	2386.512	-46.47	2.8	0	51.59	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2388.336	-57	2.8	1.12	42.18	Average	<=54	Pass
3-DH5	2402	No-Hopping	2390	-49.18	2.8	0	48.88	Peak	<=74	Pass
3-DH5	2402	No-Hopping	2390	-57.94	2.8	1.12	41.24	Average	<=54	Pass
3-DH5	2480	No-Hopping	2483.5	-46.49	2.8	0	51.57	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2483.5	-54.59	2.8	1.13	44.6	Average	<=54	Pass
3-DH5	2480	No-Hopping	2483.872	-43.25	2.8	0	54.81	Peak	<=74	Pass
3-DH5	2480	No-Hopping	2483.752	-53.45	2.8	1.13	45.74	Average	<=54	Pass



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3-DH5	2480	No-Hopping	2500	-49.22	2.8	0	48.84	Peak	≤ 74	Pass
3-DH5	2480	No-Hopping	2500	-57.23	2.8	1.13	41.96	Average	≤ 54	Pass

Note: Both the left and right ears have been tested, and the worst result recorded was for the left ear.

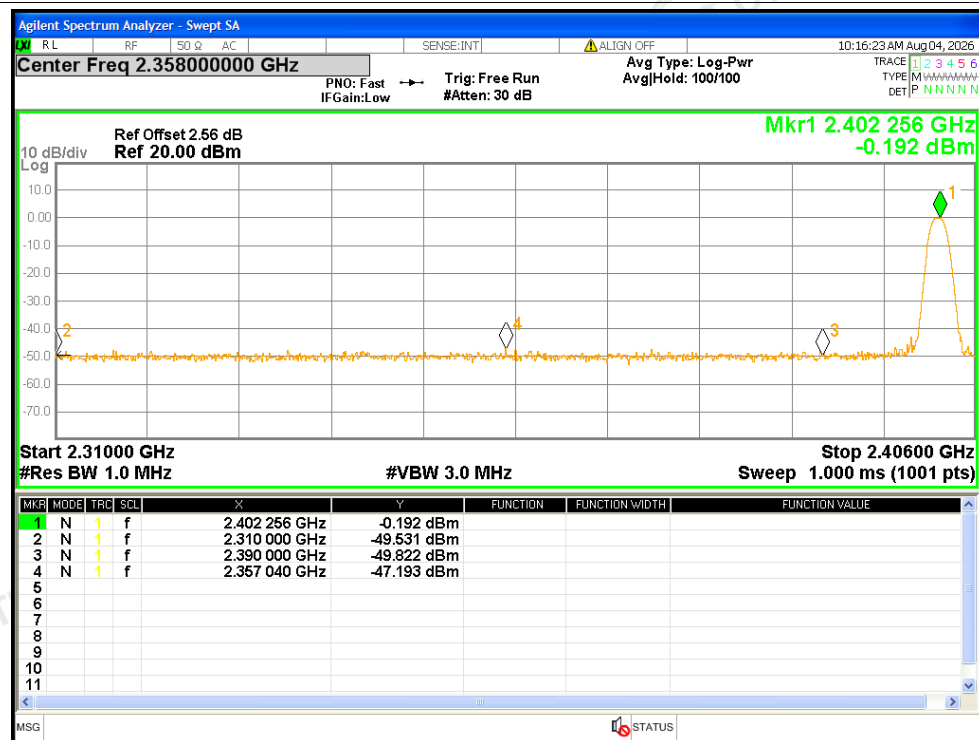


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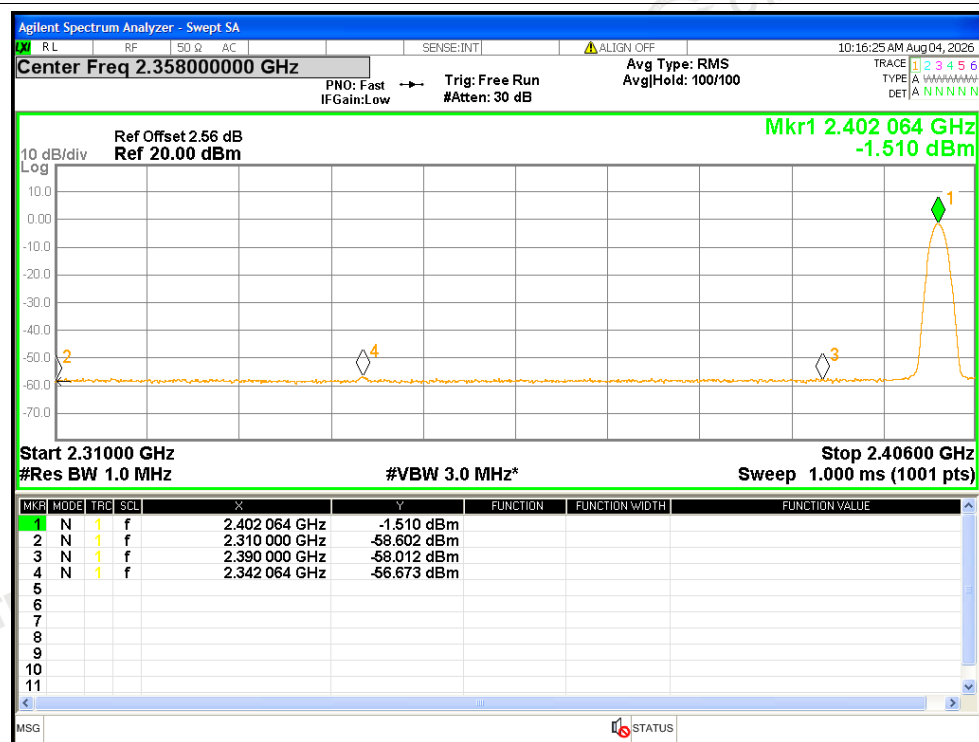
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Test Graphs

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



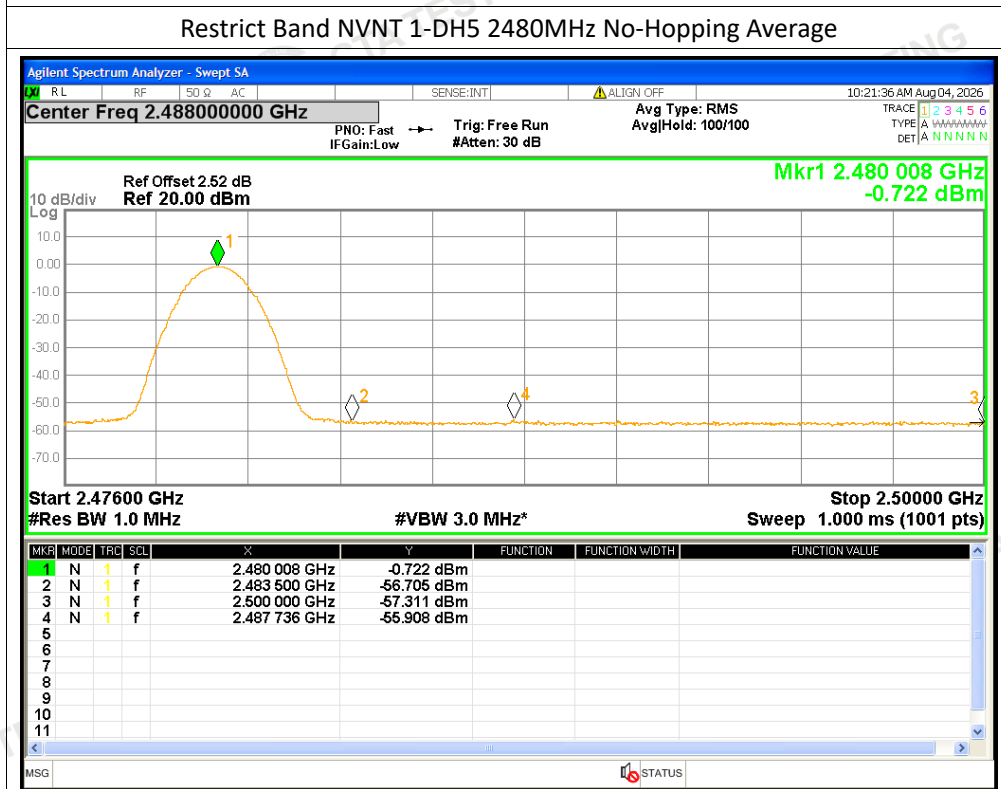
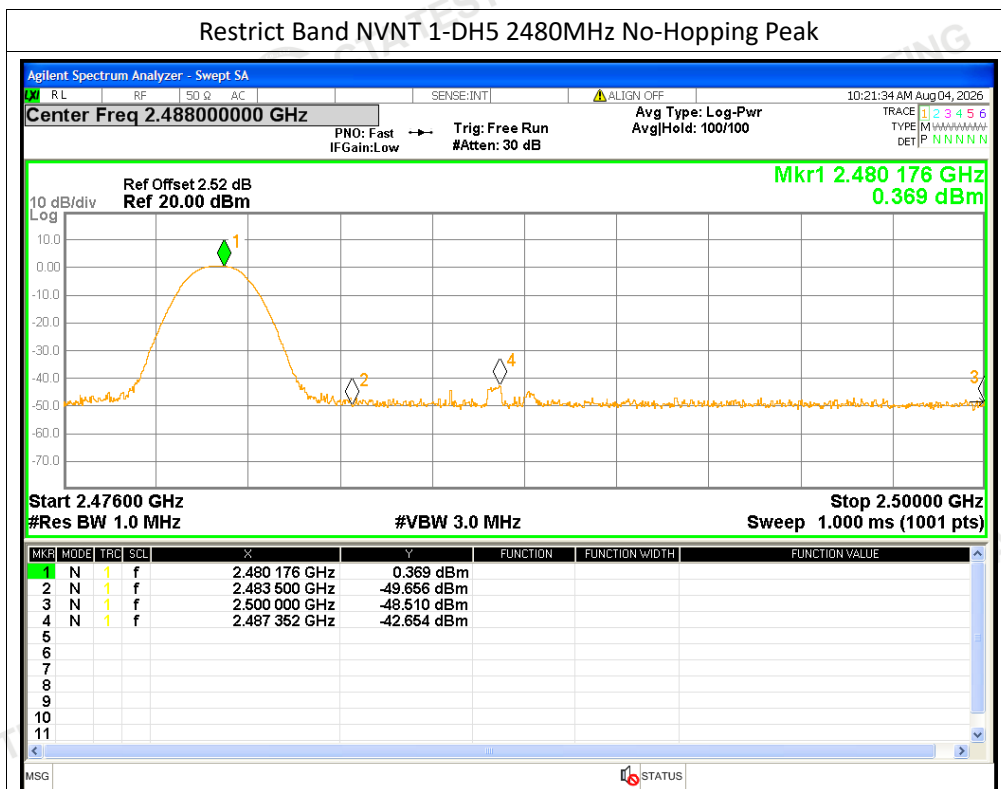
Restrict Band NVNT 1-DH5 2402MHz No-Hopping Average





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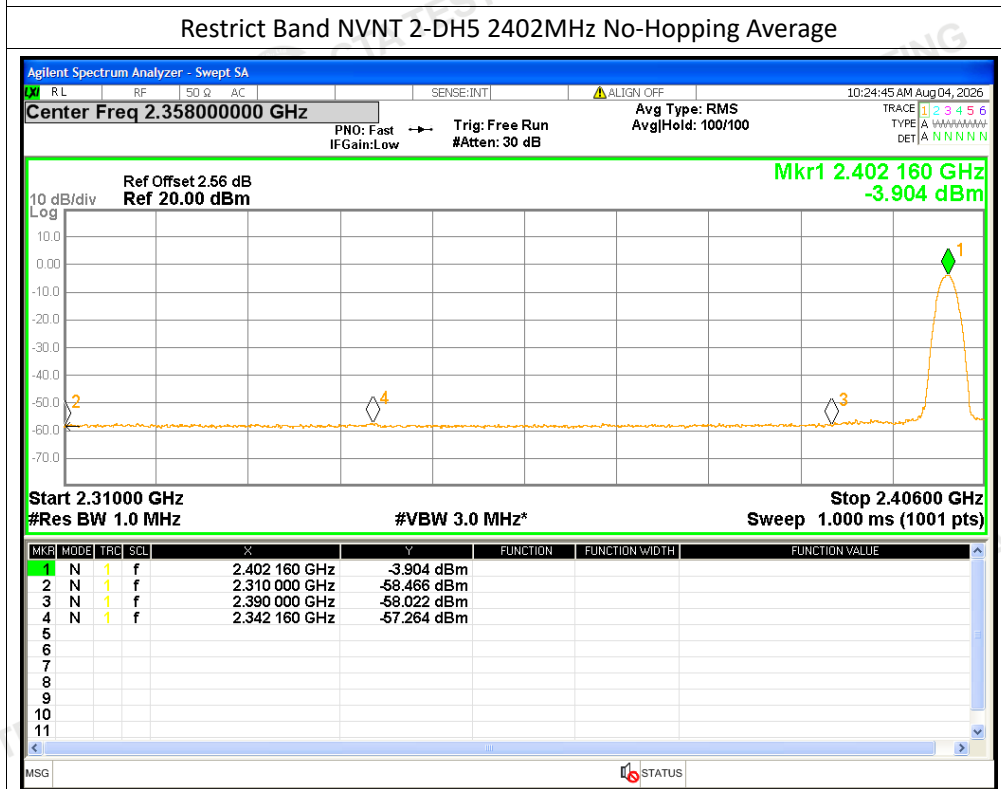
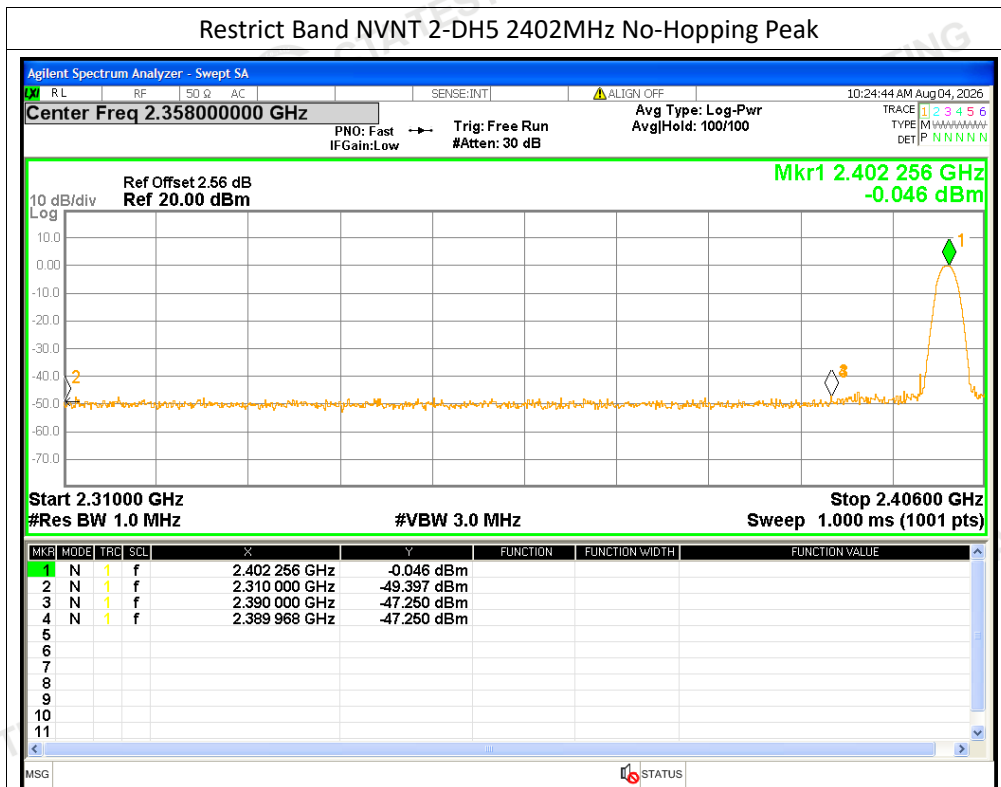
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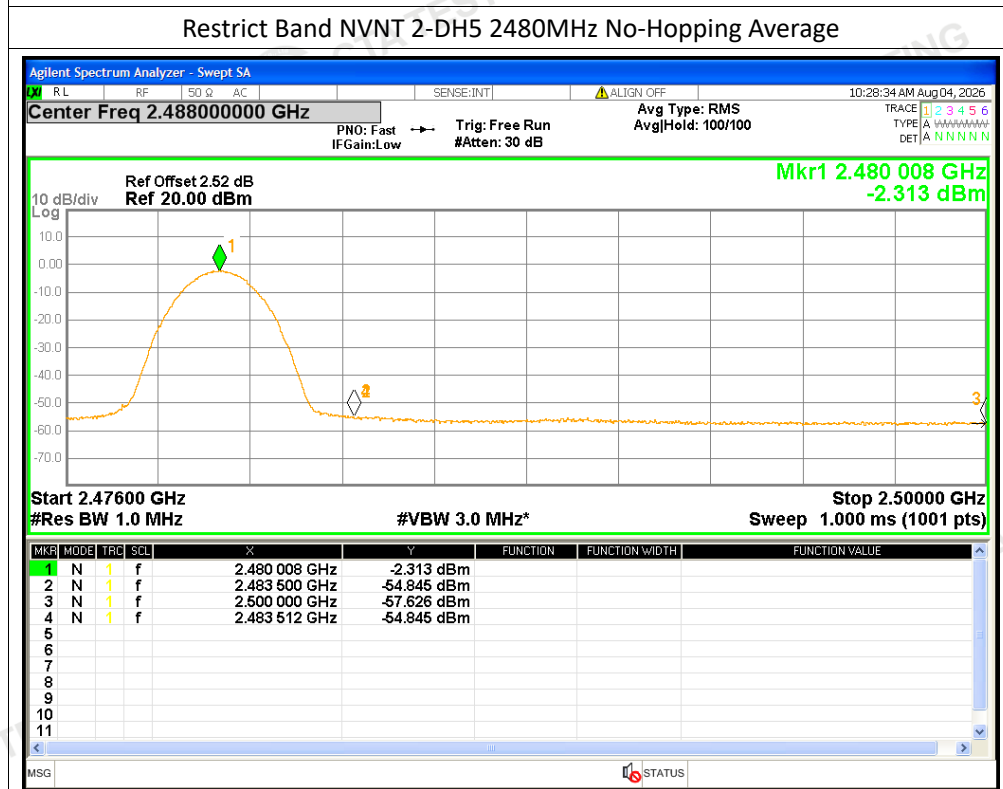
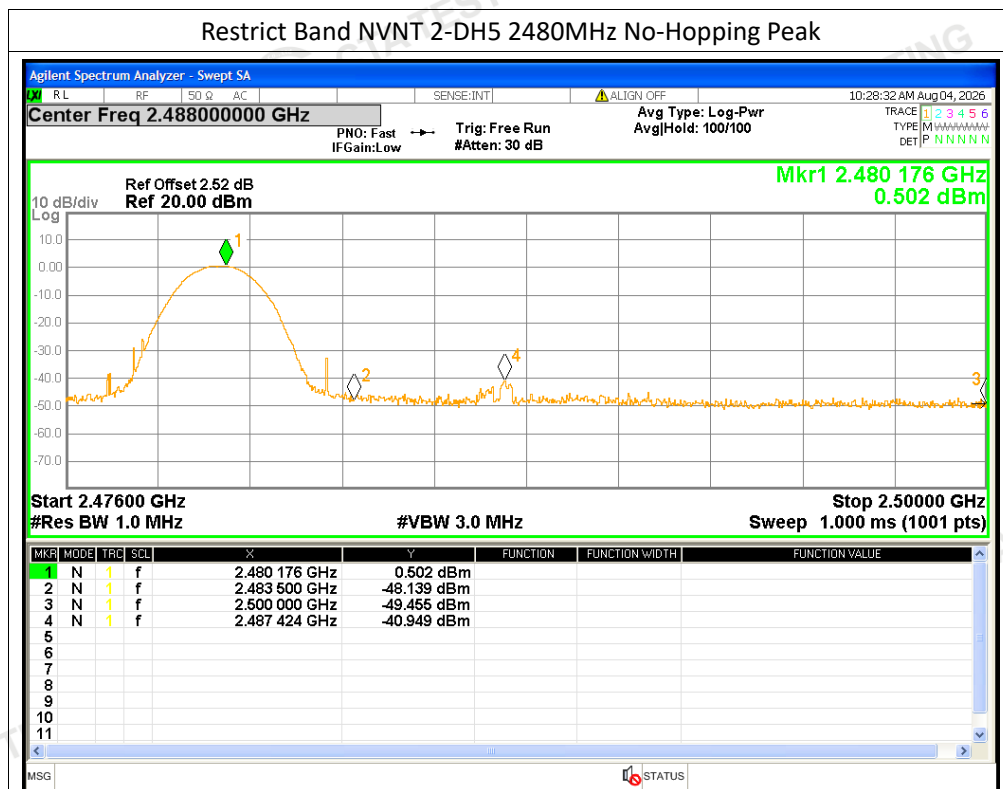
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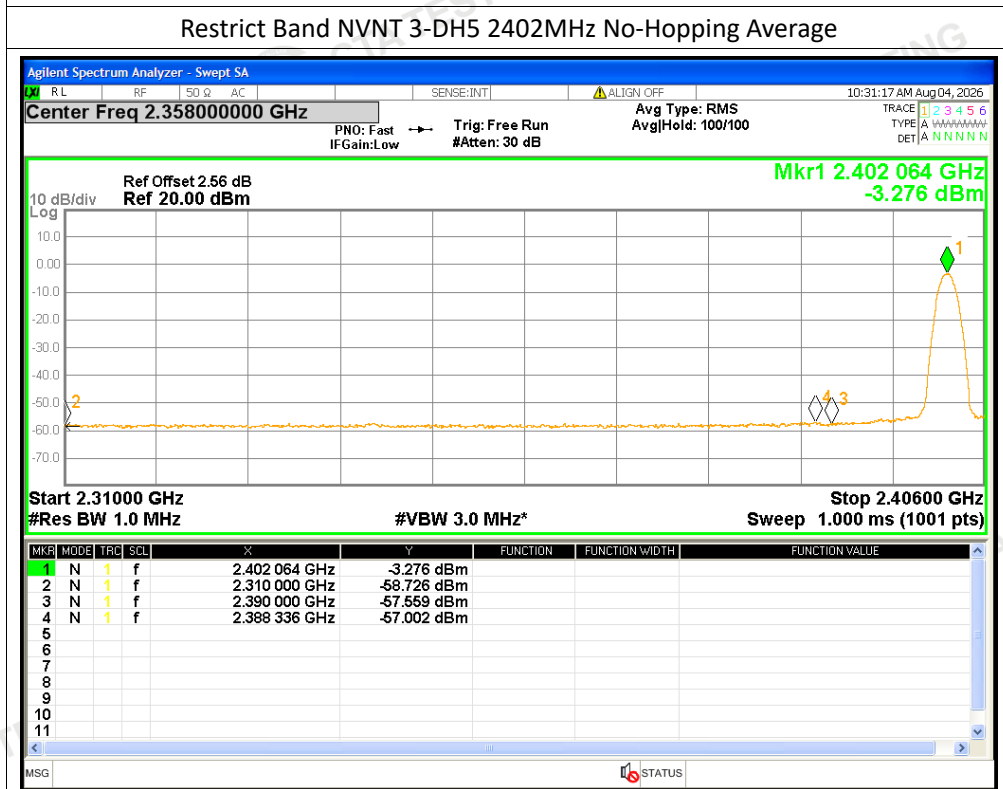
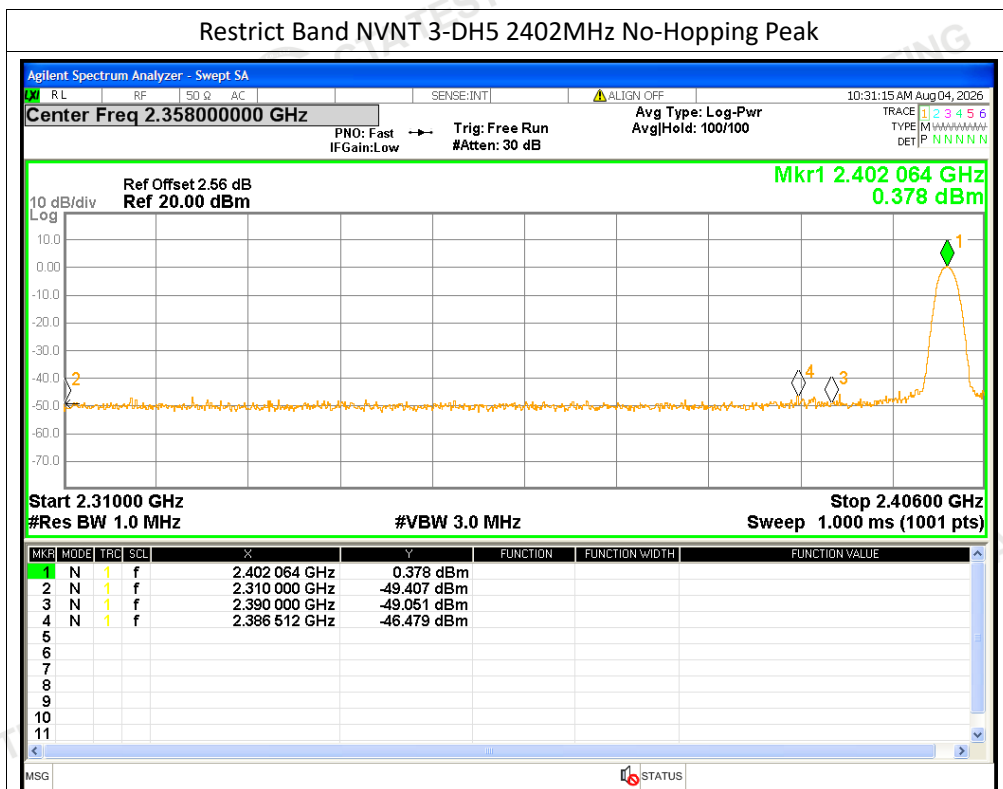
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