



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: HOME THEATER PROJECTOR

Test Model: K3

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu





A.1 -20dB Bandwidth

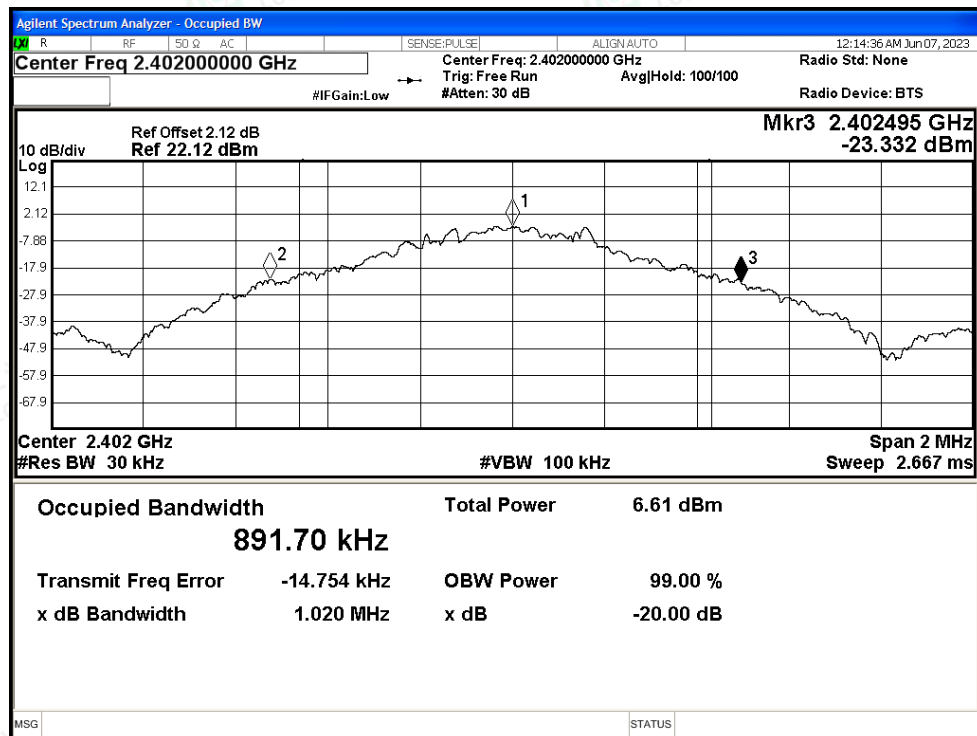
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant0	1.02	N/A	Pass
NVNT	1-DH5	2441	Ant0	1.02	N/A	Pass
NVNT	1-DH5	2480	Ant0	1.029	N/A	Pass
NVNT	2-DH5	2402	Ant0	1.287	N/A	Pass
NVNT	2-DH5	2441	Ant0	1.28	N/A	Pass
NVNT	2-DH5	2480	Ant0	1.319	N/A	Pass
NVNT	3-DH5	2402	Ant0	1.306	N/A	Pass
NVNT	3-DH5	2441	Ant0	1.303	N/A	Pass
NVNT	3-DH5	2480	Ant0	1.308	N/A	Pass



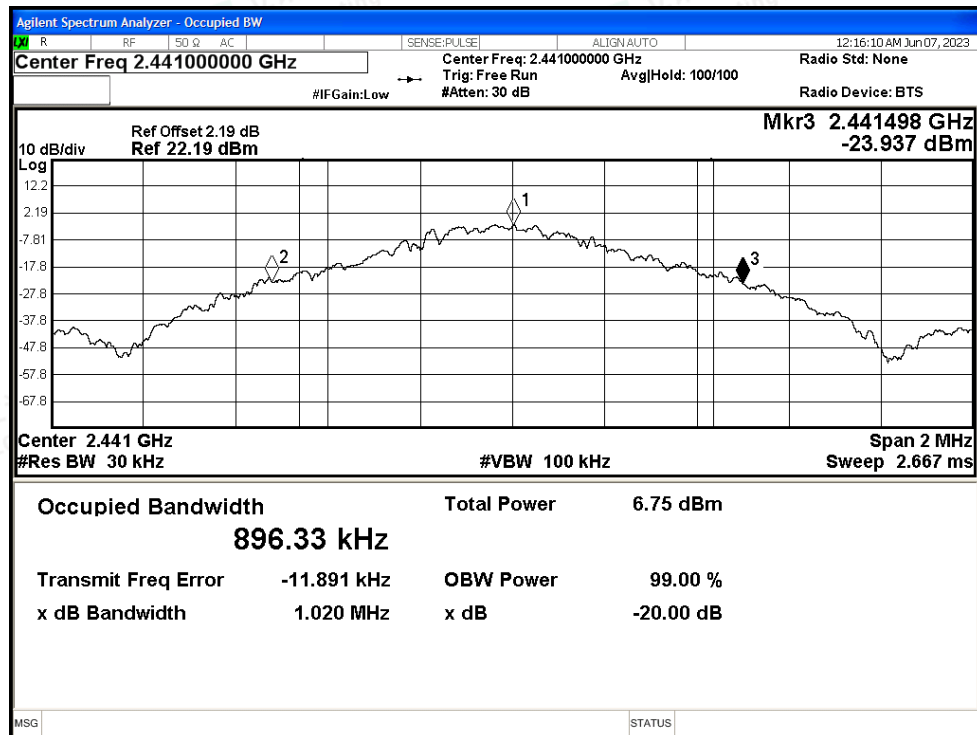


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant0

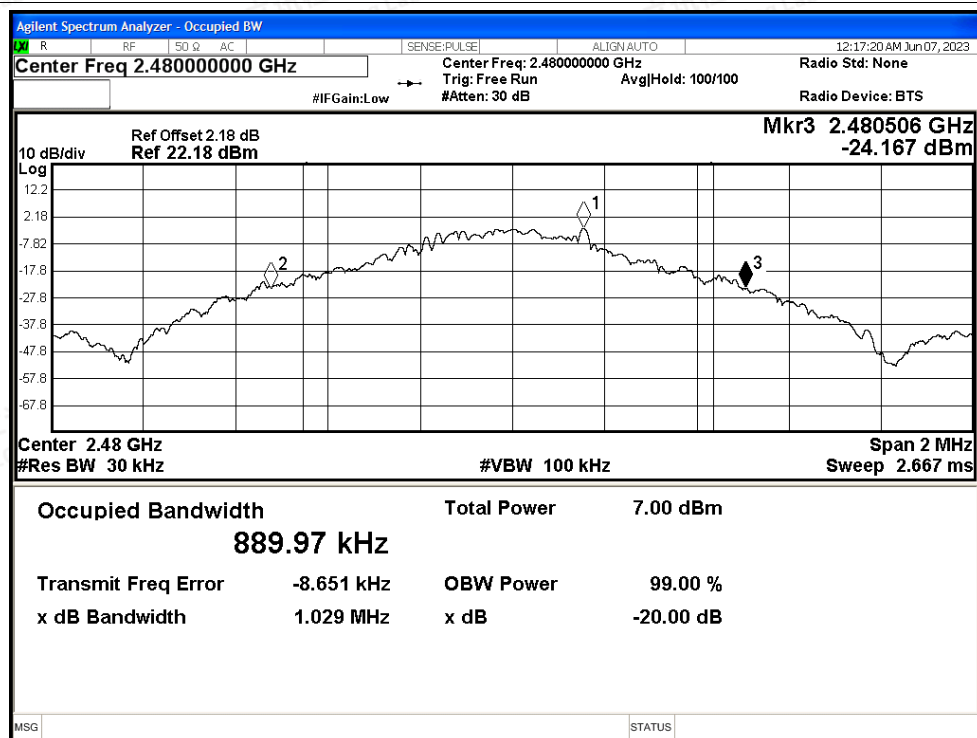


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant0

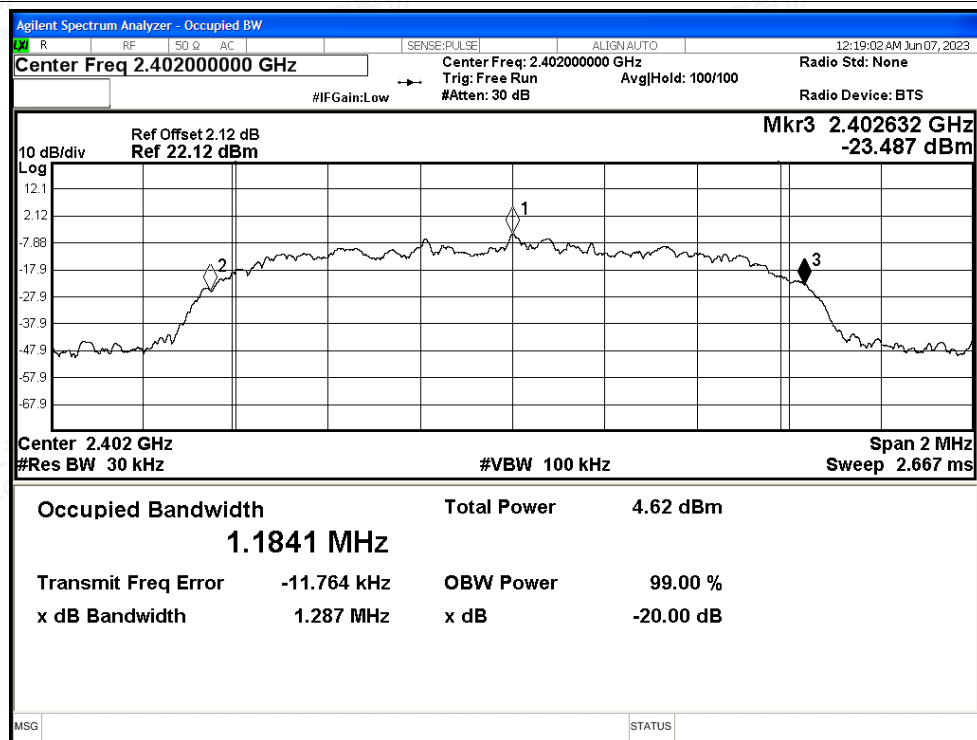




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant0

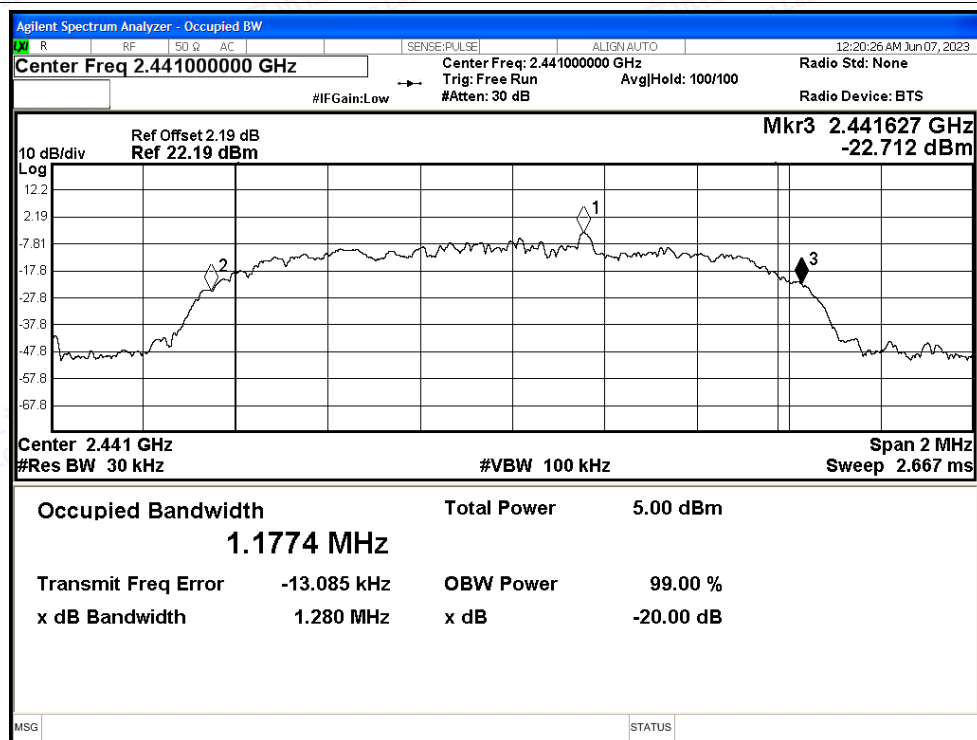


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant0

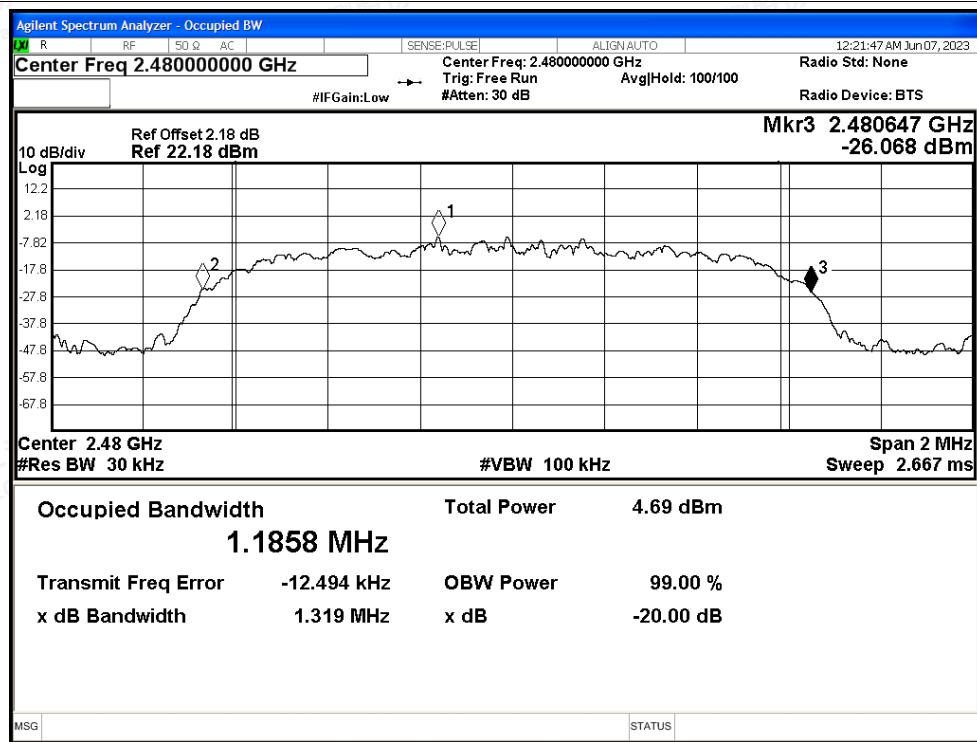




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant0

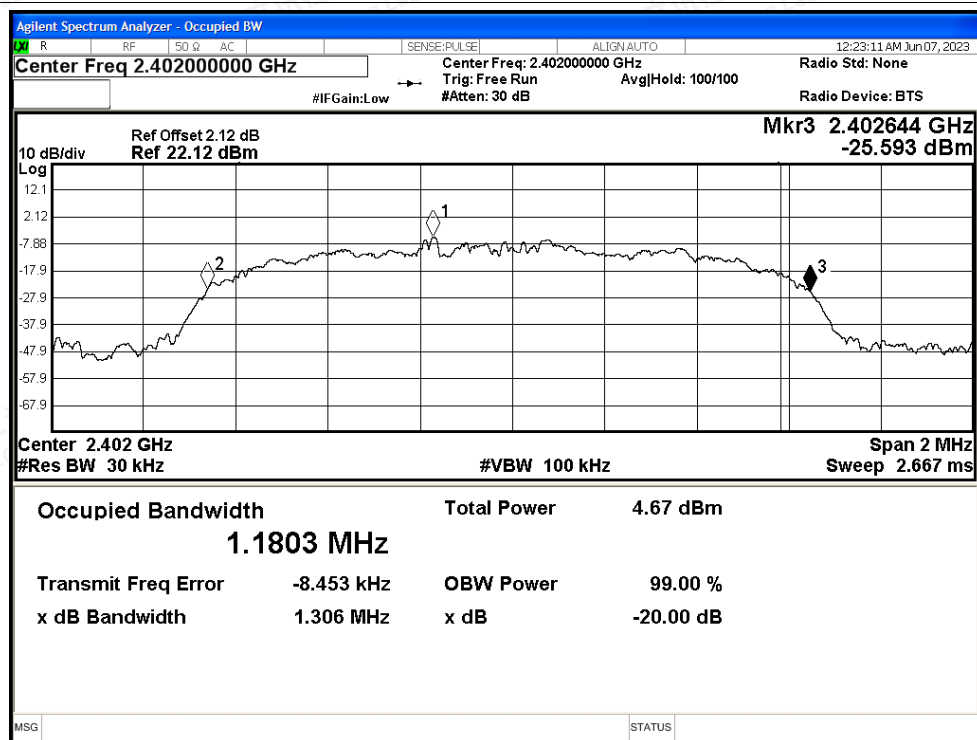


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant0

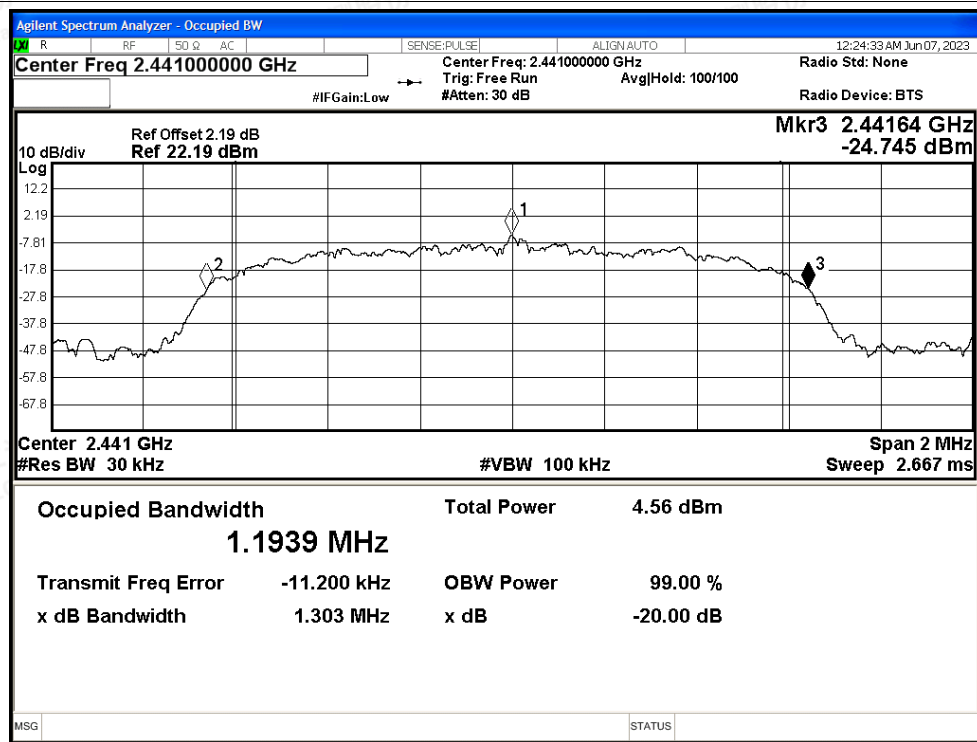


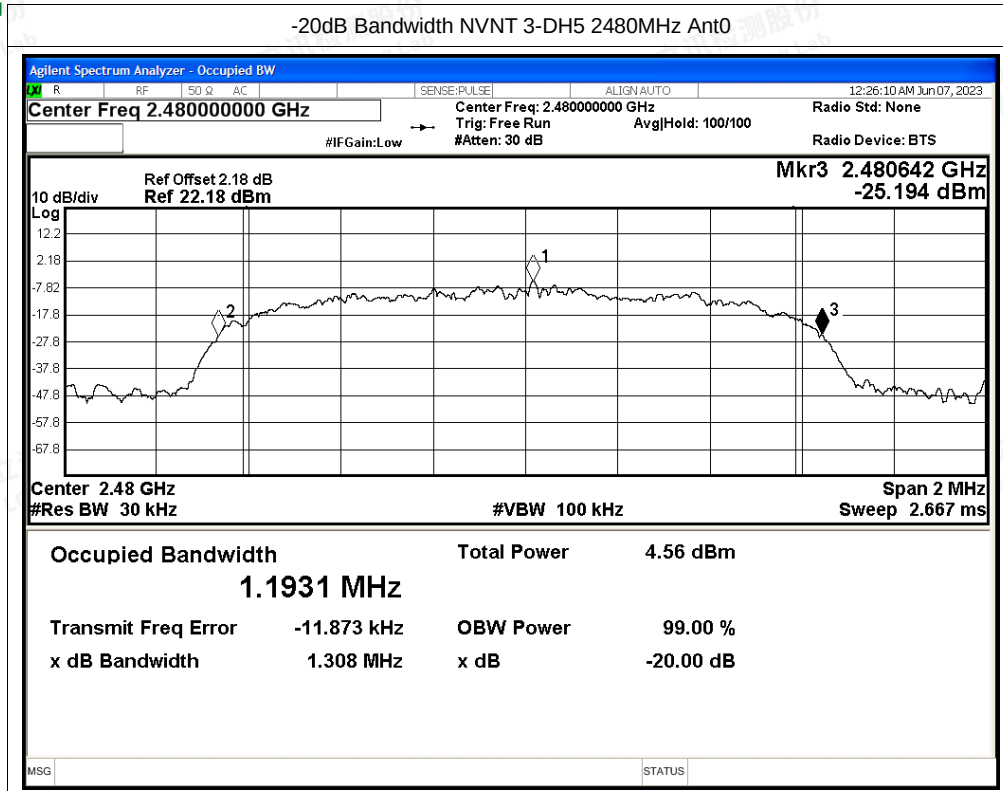


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant0



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant0







A.2 Maximum Conducted Output Power

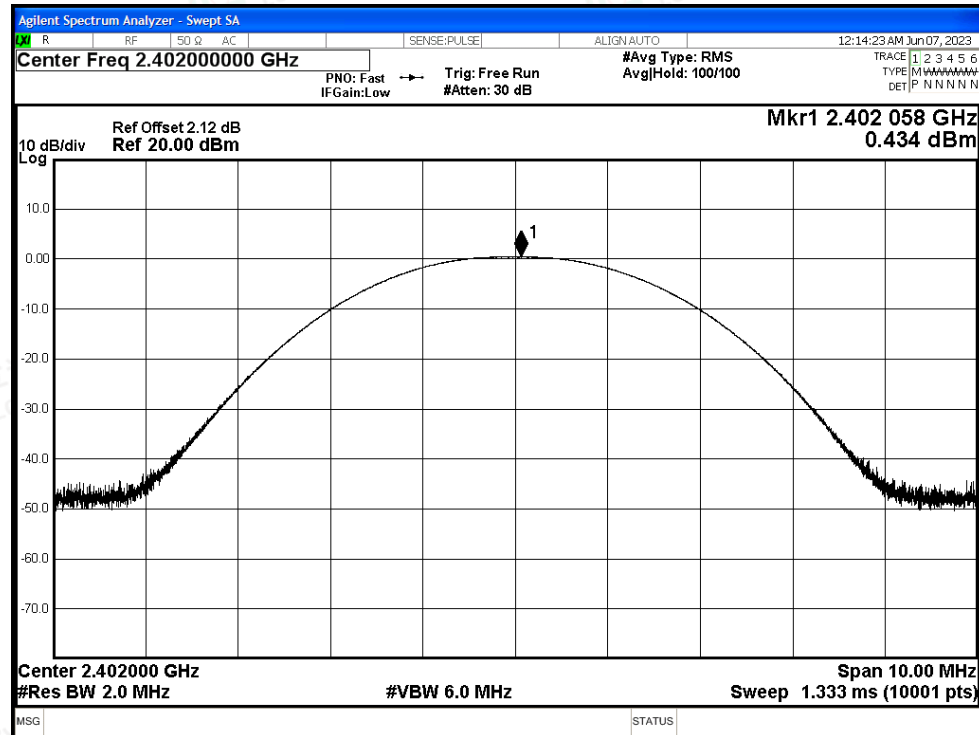
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant0	0.43	21	Pass
NVNT	1-DH5	2441	Ant0	0.62	21	Pass
NVNT	1-DH5	2480	Ant0	0.59	21	Pass
NVNT	2-DH5	2402	Ant0	0.19	21	Pass
NVNT	2-DH5	2441	Ant0	0.28	21	Pass
NVNT	2-DH5	2480	Ant0	0.4	21	Pass
NVNT	3-DH5	2402	Ant0	0.3	21	Pass
NVNT	3-DH5	2441	Ant0	0.52	21	Pass
NVNT	3-DH5	2480	Ant0	0.5	21	Pass



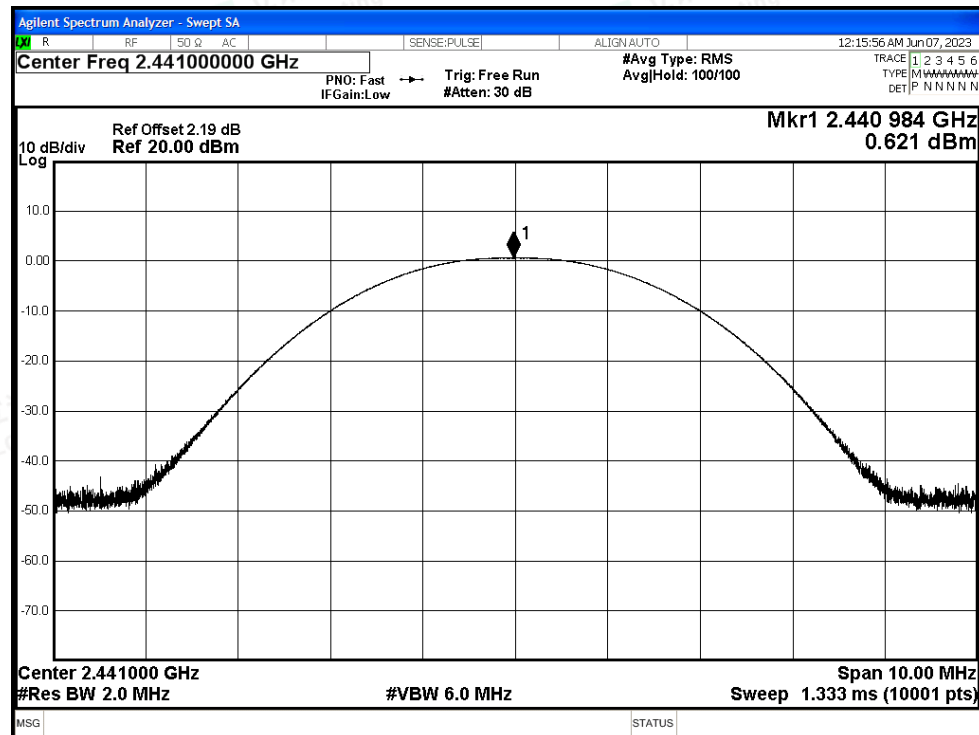


Test Graphs

Power NVNT 1-DH5 2402MHz Ant0

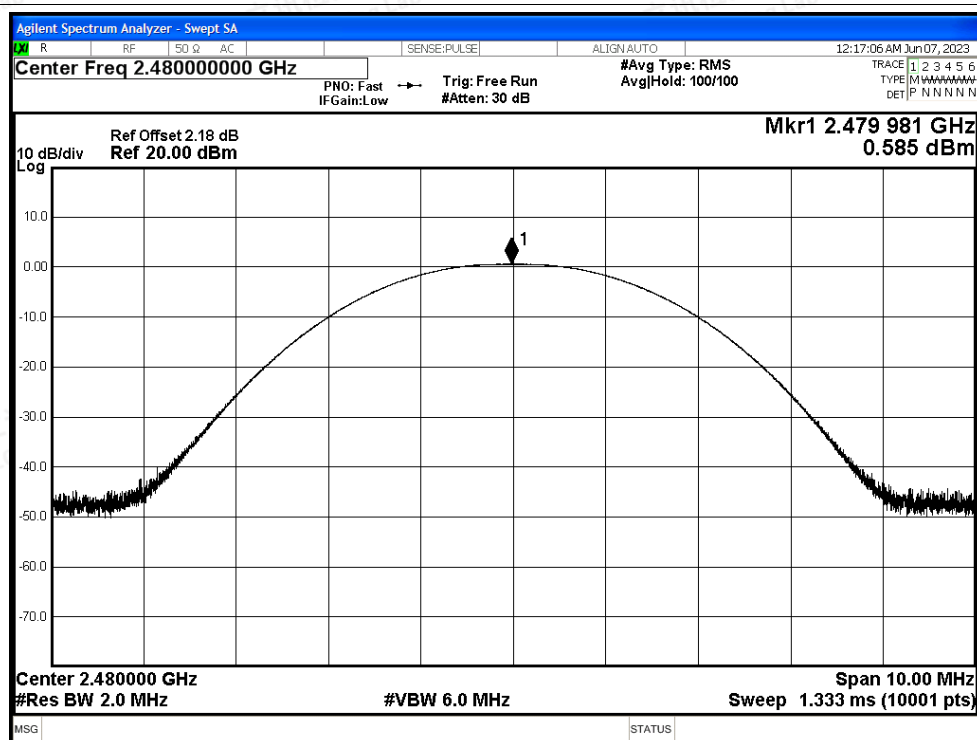


Power NVNT 1-DH5 2441MHz Ant0

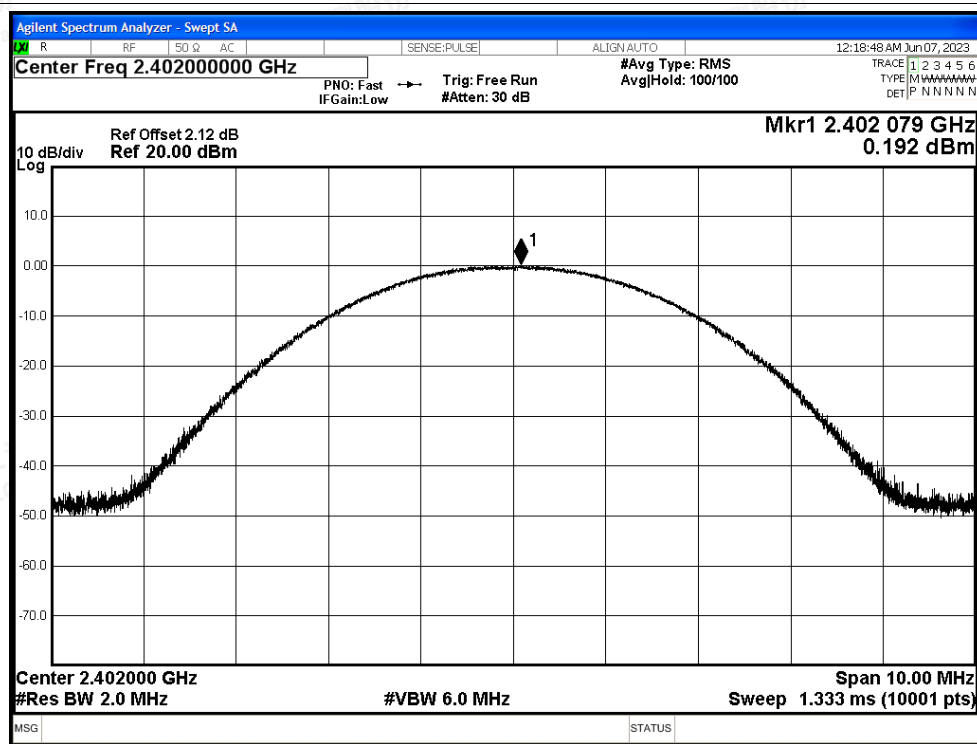




Power NVNT 1-DH5 2480MHz Ant0

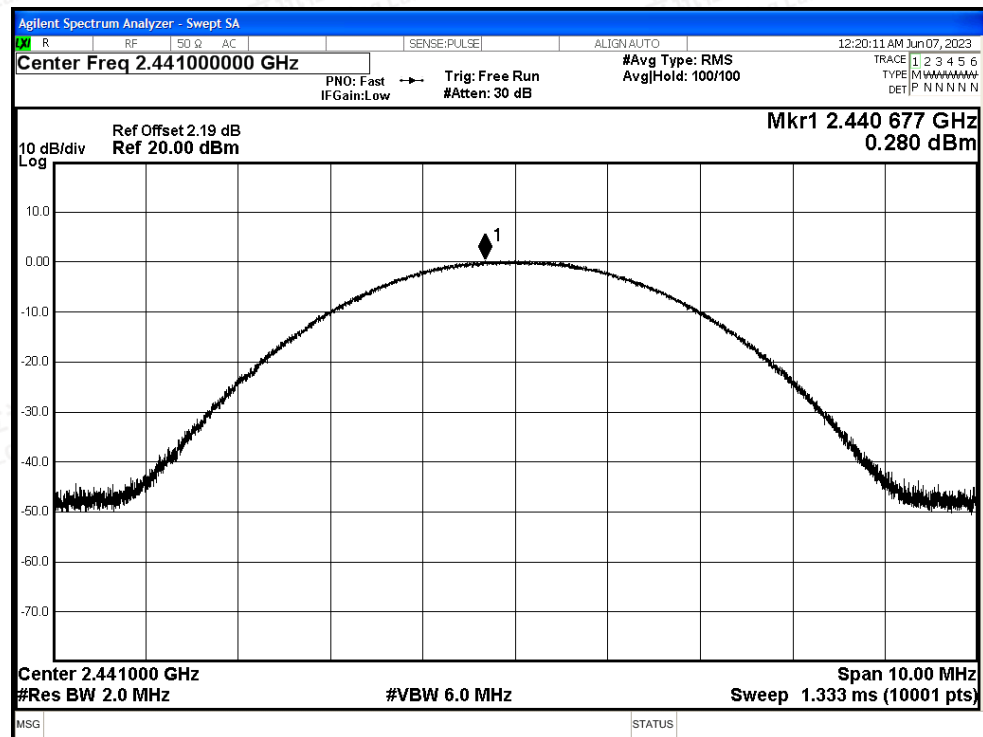


Power NVNT 2-DH5 2402MHz Ant0

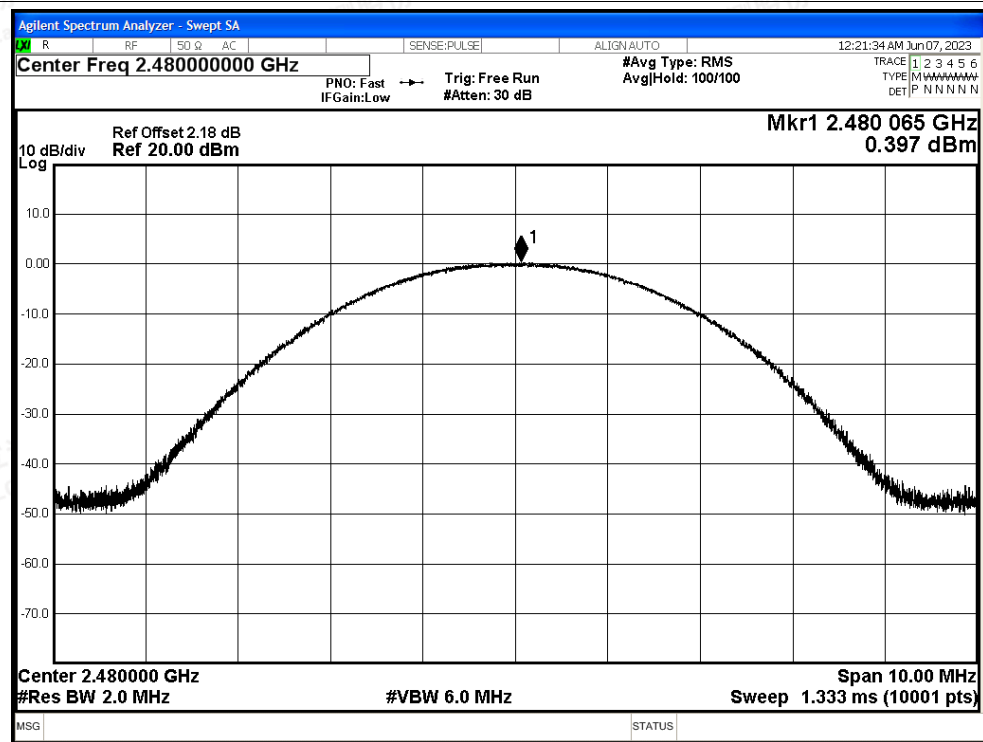




Power NVNT 2-DH5 2441MHz Ant0

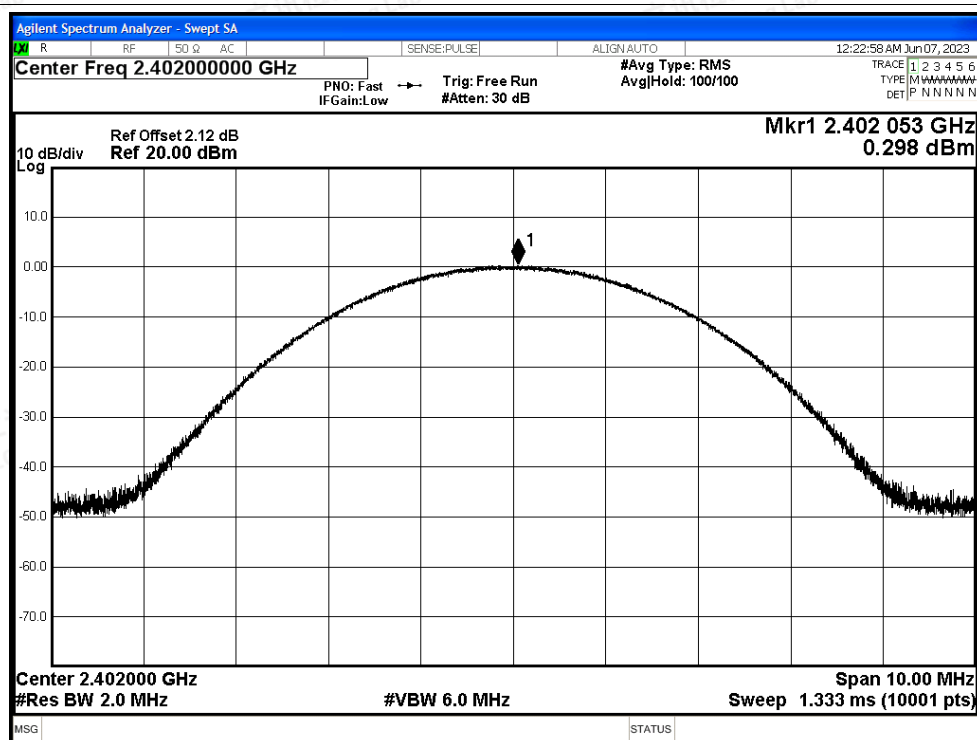


Power NVNT 2-DH5 2480MHz Ant0

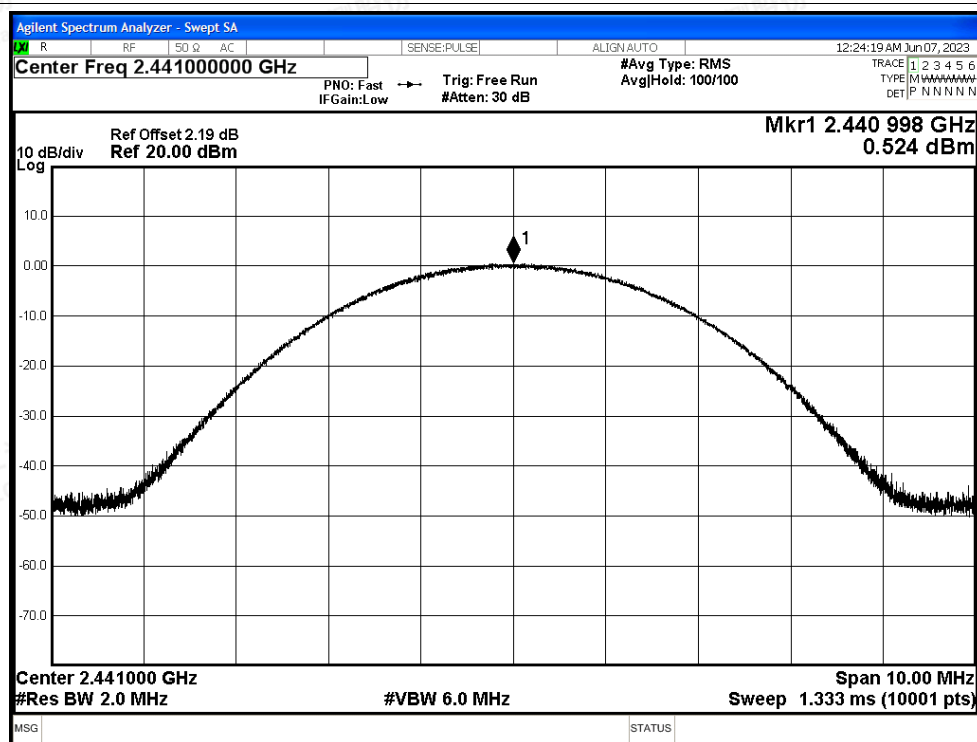


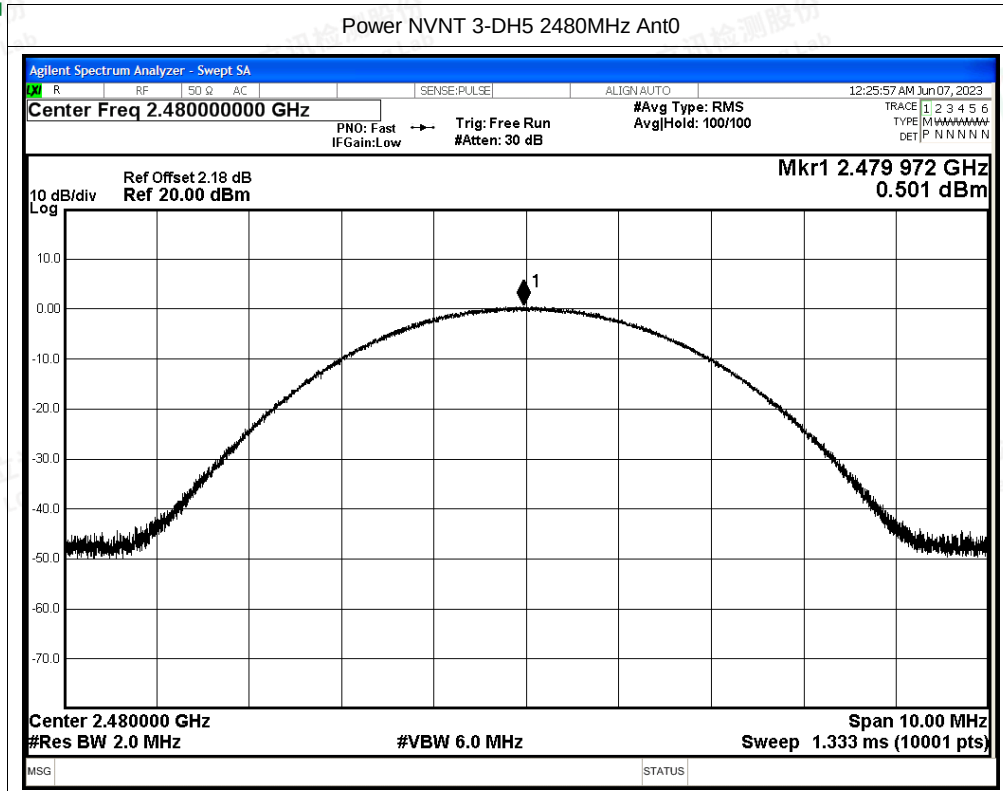


Power NVNT 3-DH5 2402MHz Ant0



Power NVNT 3-DH5 2441MHz Ant0







A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant0	2401.964	2402.982	1.018	0.686	Pass
NVNT	2-DH5	Ant0	2402.006	2403.16	1.154	0.879	Pass
NVNT	3-DH5	Ant0	2402.008	2403.002	0.994	0.872	Pass

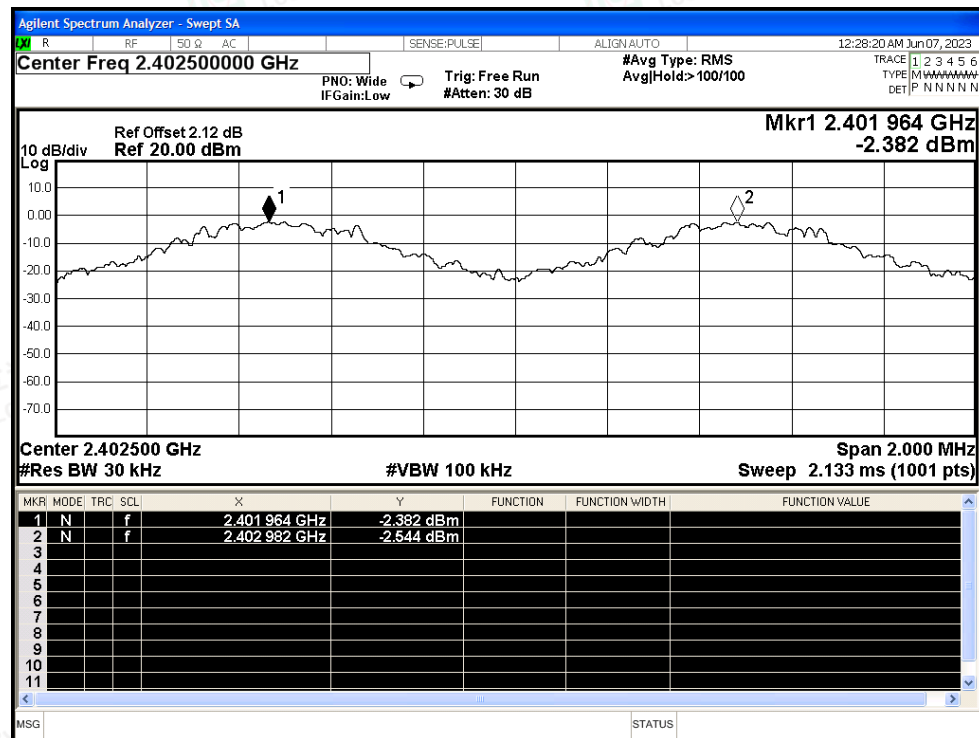


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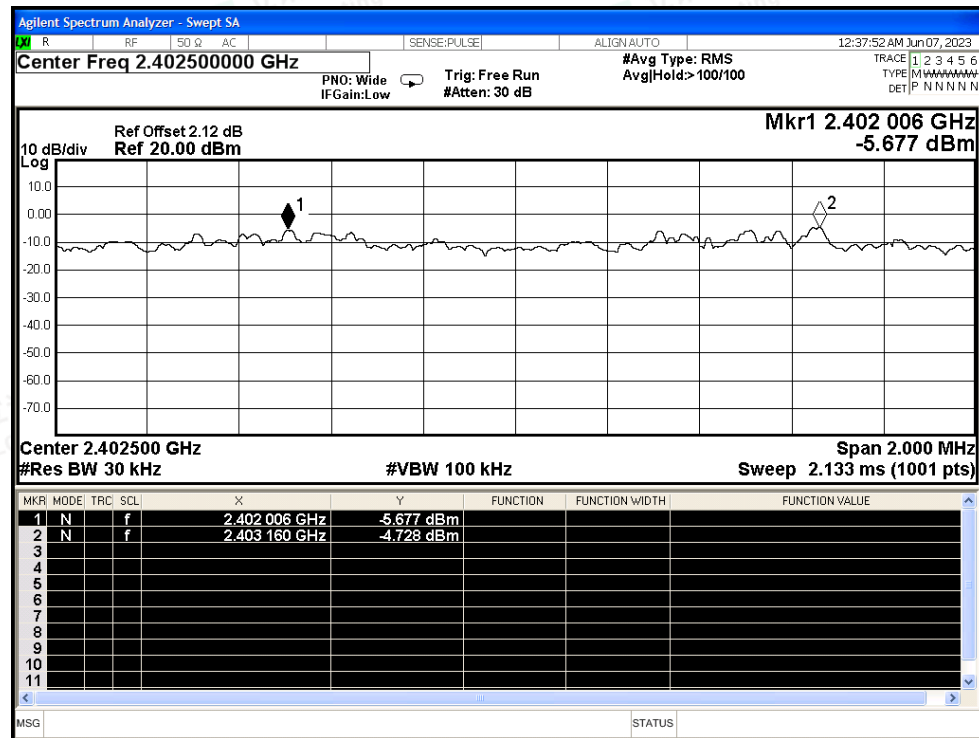


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant0



CFS NVNT 2-DH5 2402MHz Ant0

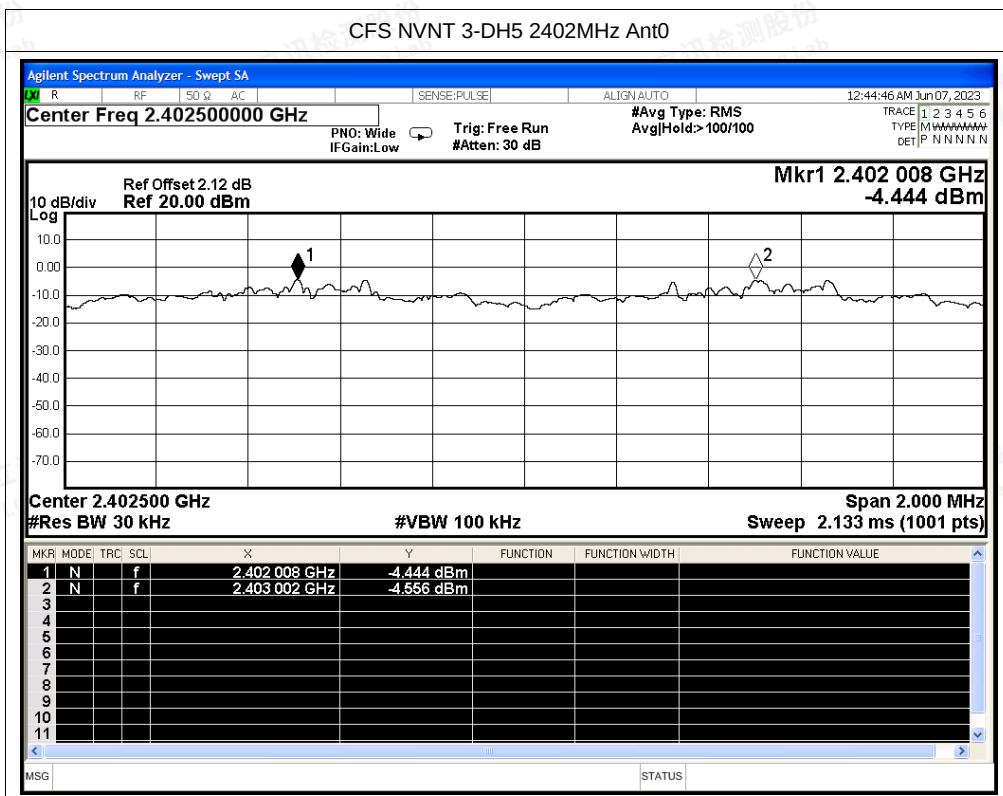


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A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant0	2.882	288.2	100	31600	400	Pass
NVNT	2-DH5	2402	Ant0	2.881	282.338	98	31600	400	Pass
NVNT	3-DH5	2402	Ant0	2.887	303.135	105	31600	400	Pass

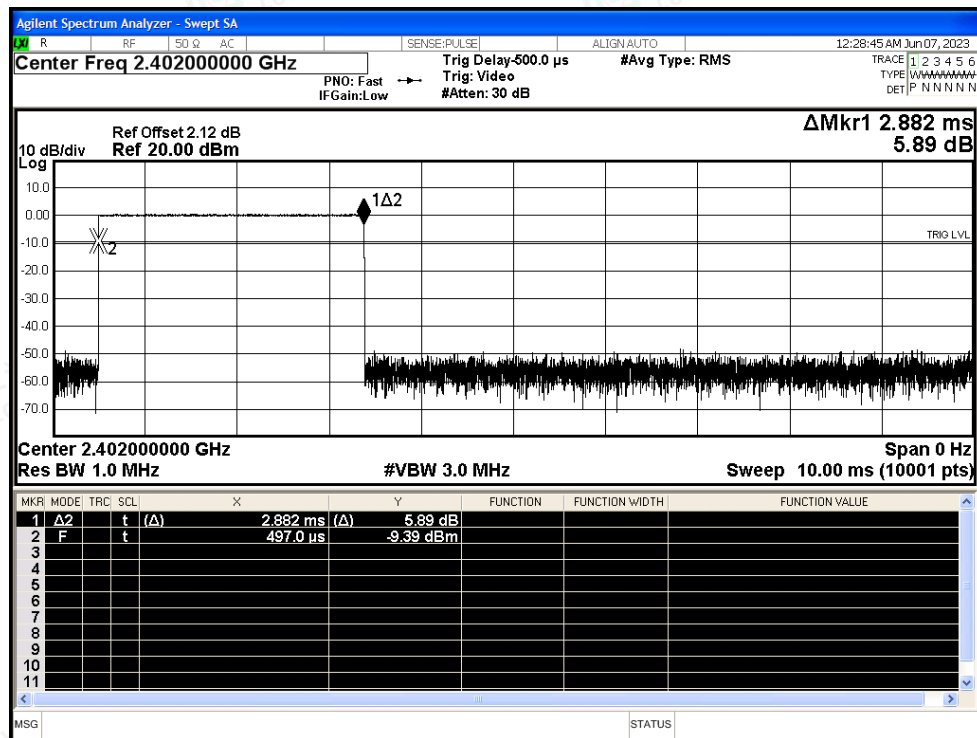


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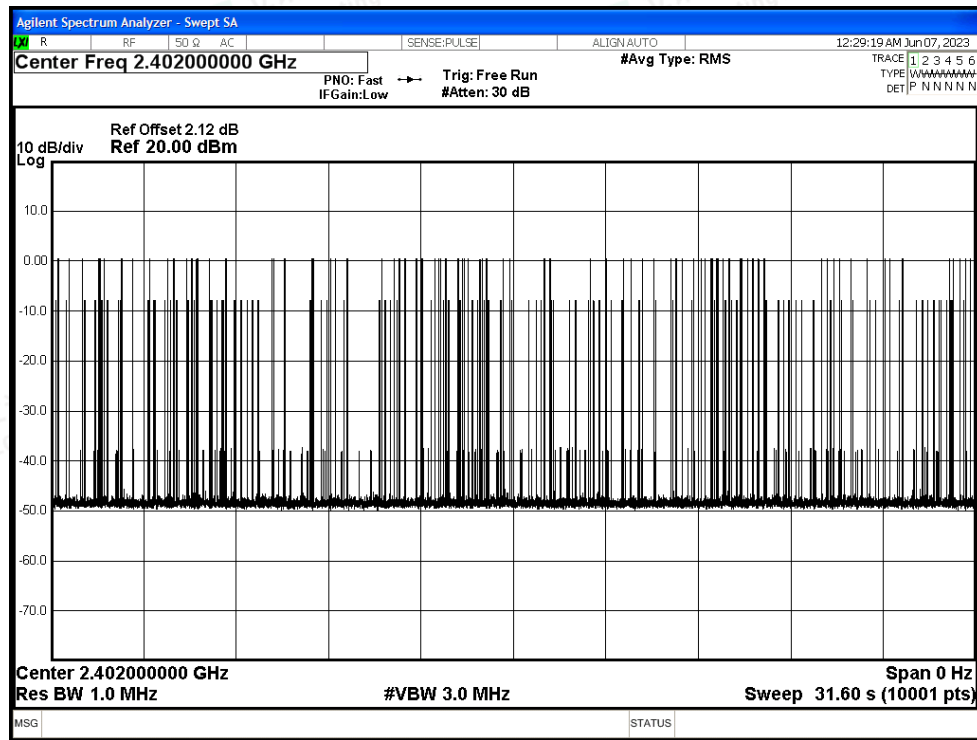


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant0 One Burst

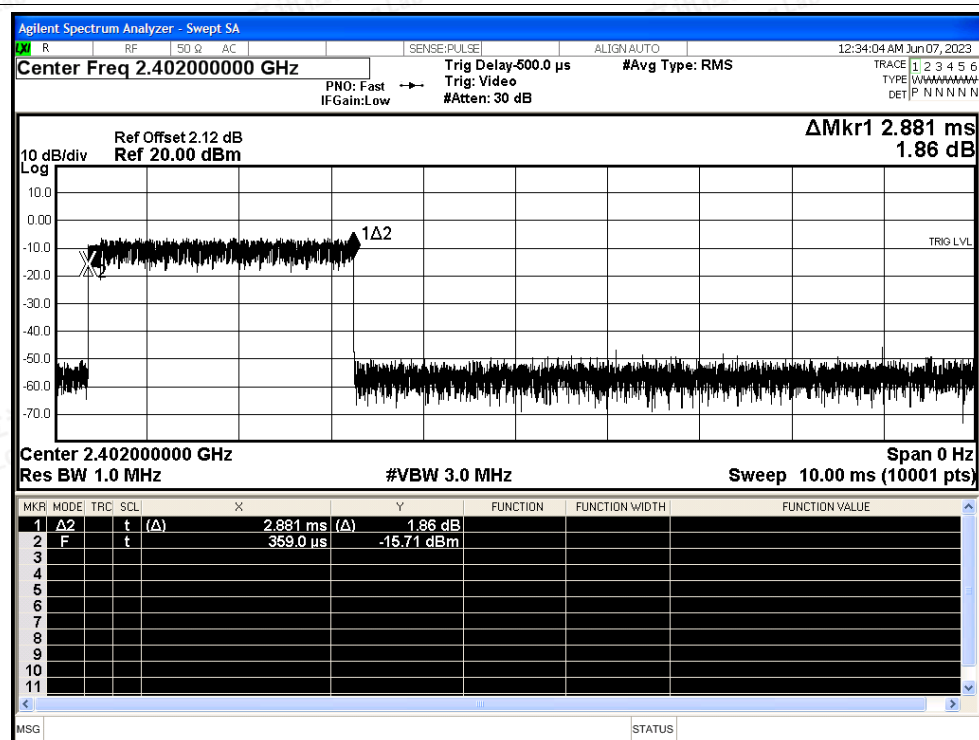


Dwell NVNT 1-DH5 2402MHz Ant0 Accumulated

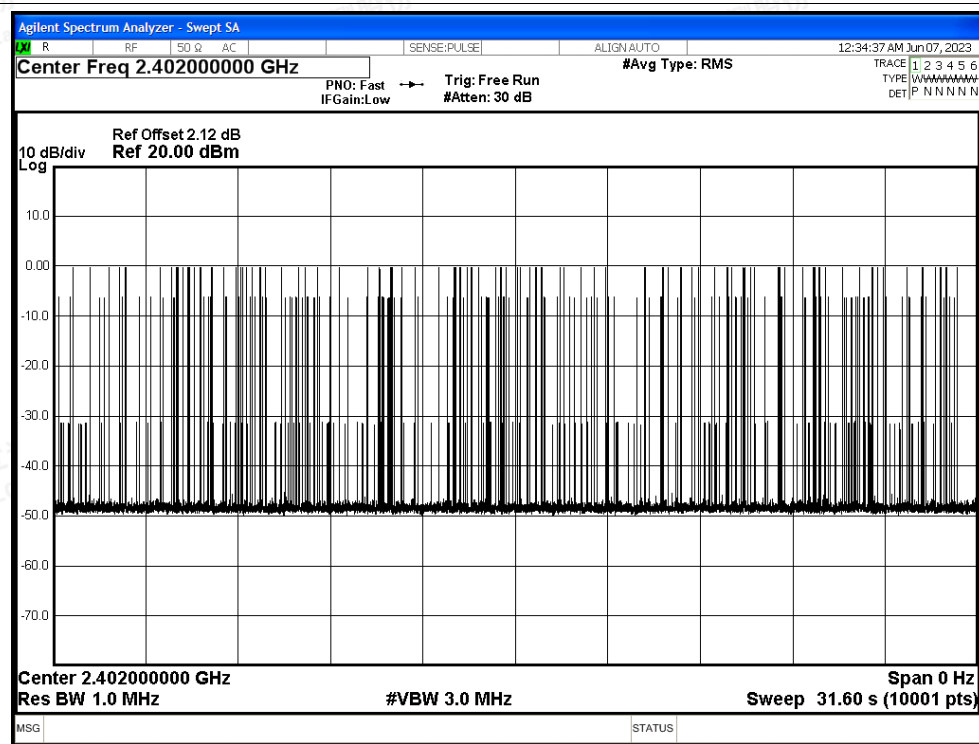




Dwell NVNT 2-DH5 2402MHz Ant0 One Burst

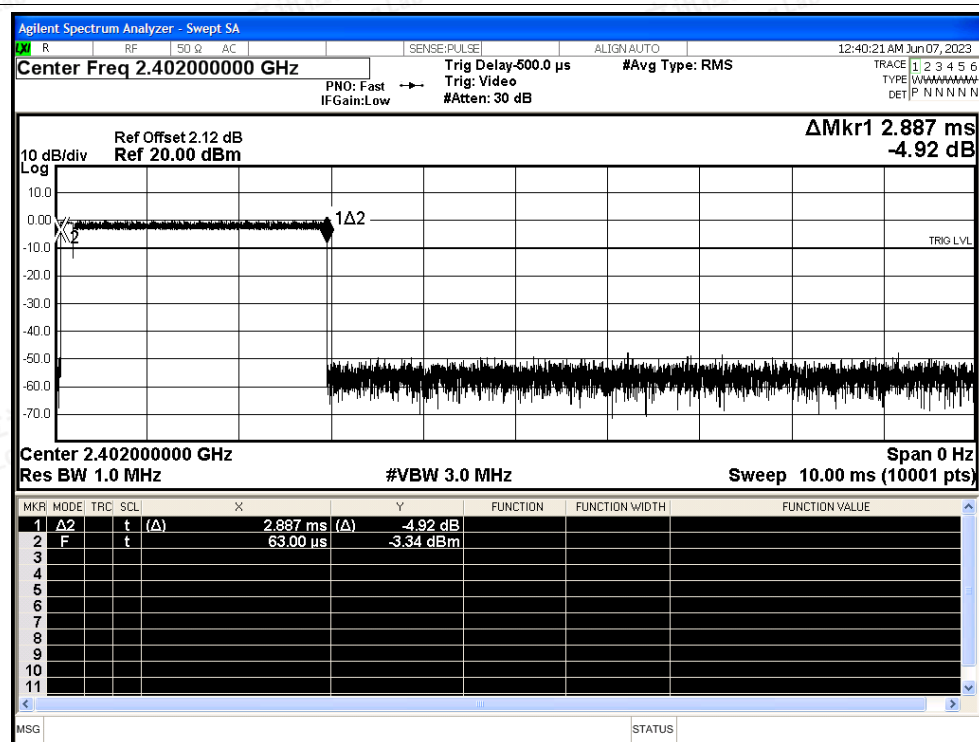


Dwell NVNT 2-DH5 2402MHz Ant0 Accumulated

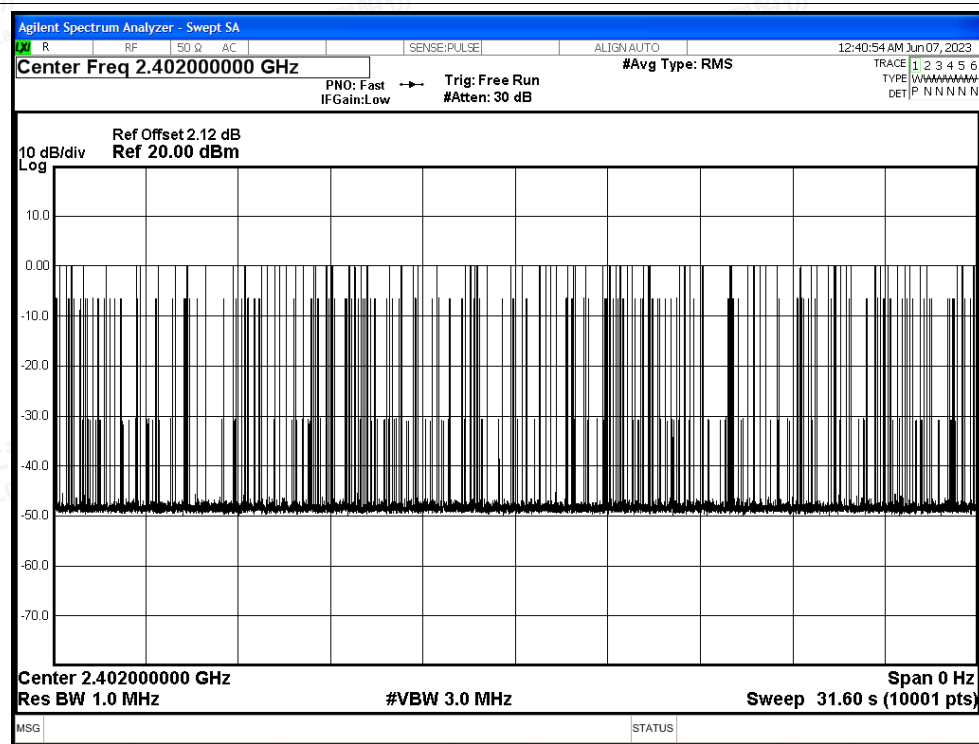




Dwell NVNT 3-DH5 2402MHz Ant0 One Burst



Dwell NVNT 3-DH5 2402MHz Ant0 Accumulated





A.5 Number of Hopping Channel

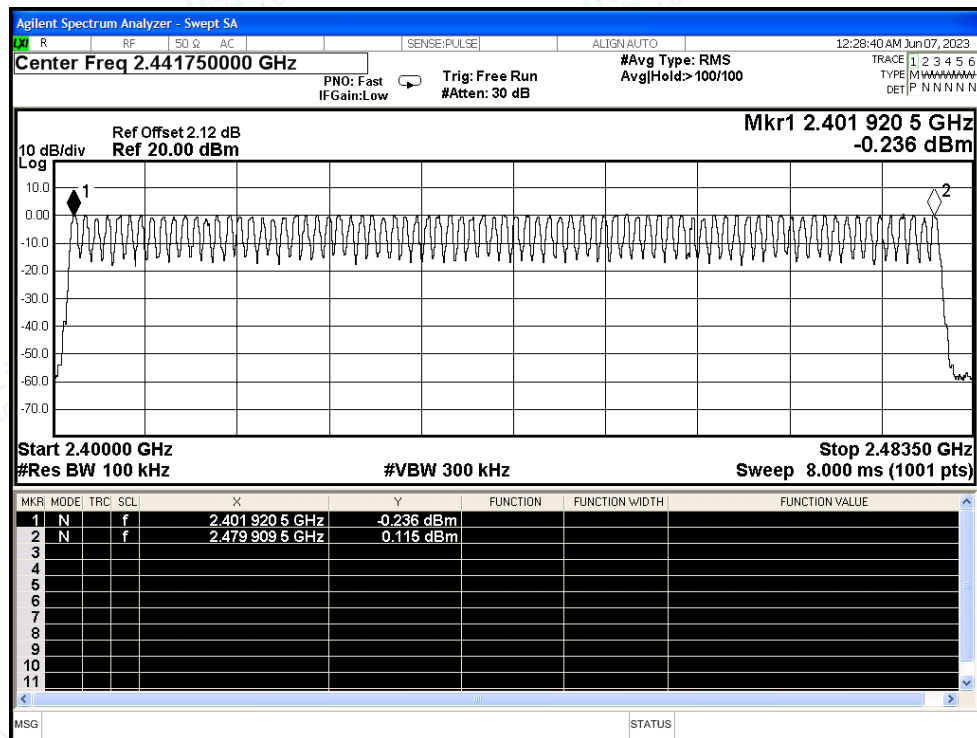
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant0	79	15	Pass
NVNT	2-DH5	Ant0	79	15	Pass
NVNT	3-DH5	Ant0	79	15	Pass



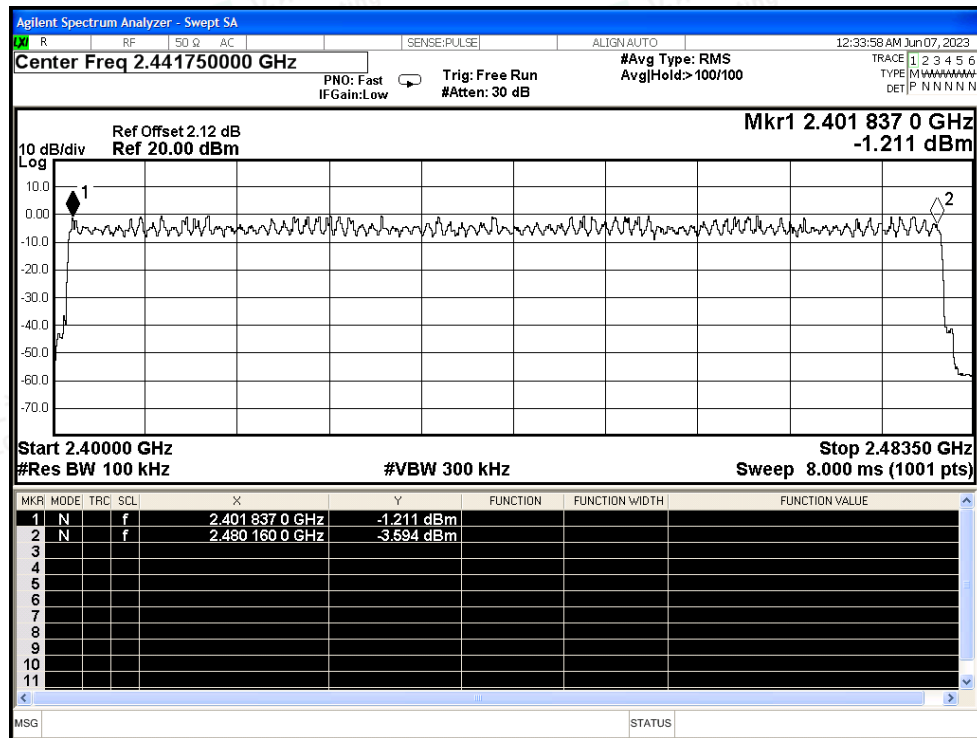


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant0

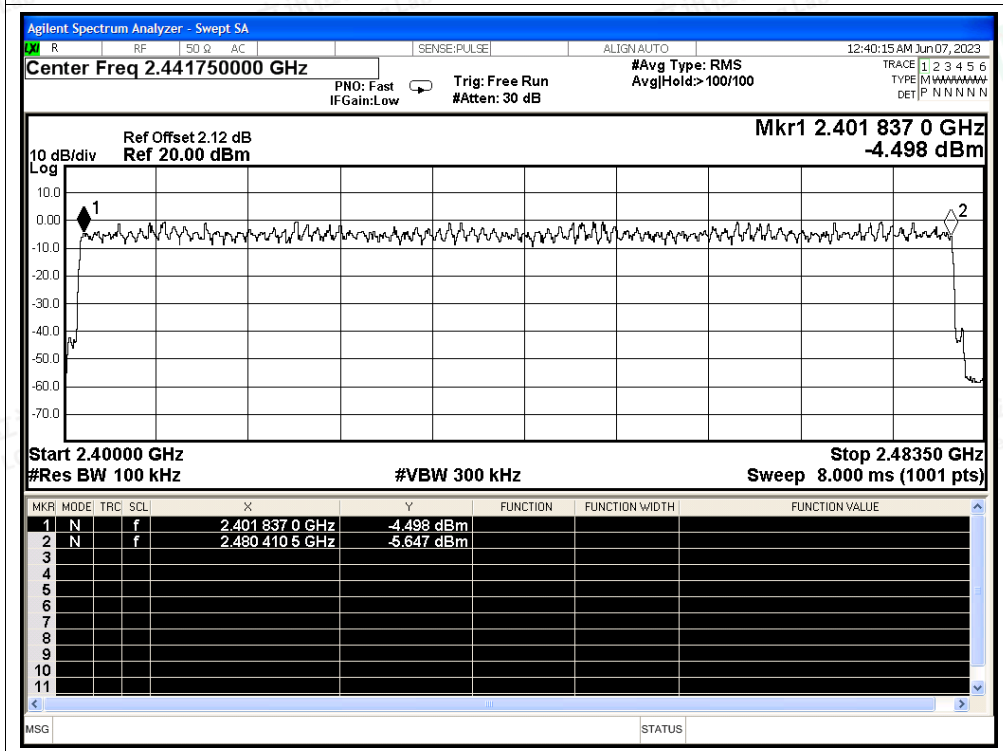


Hopping No. NVNT 2-DH5 2402MHz Ant0





Hopping No. NVNT 3-DH5 2402MHz Ant0





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	No-Hopping	-56.95	-20	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	-57.17	-20	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	-51.31	-20	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	-55.48	-20	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	-53.91	-20	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	-55.26	-20	Pass

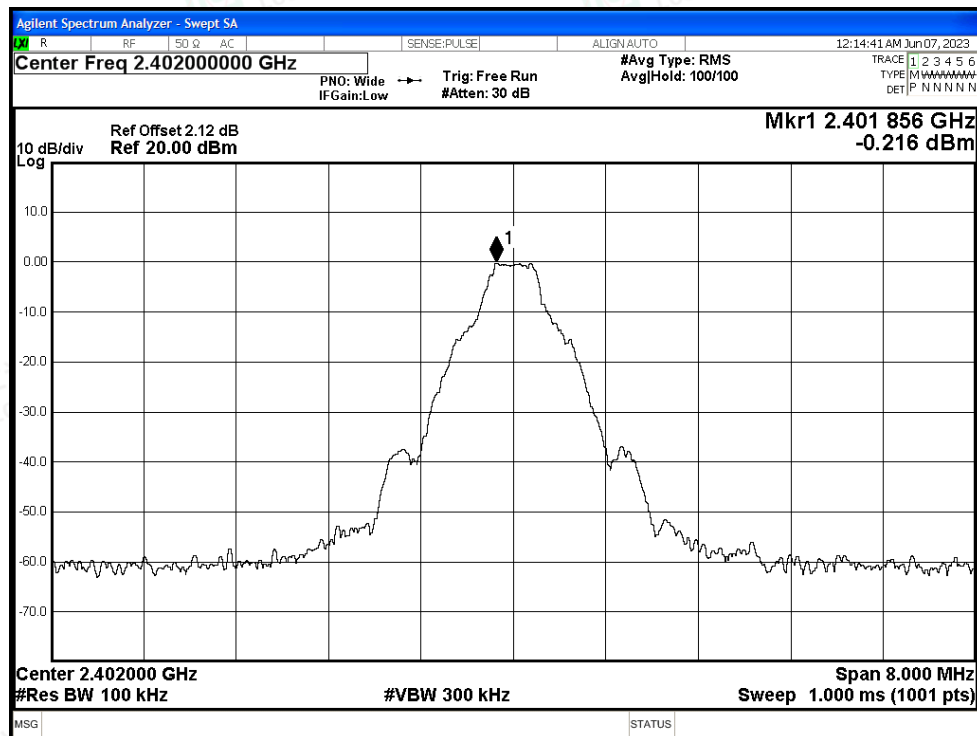


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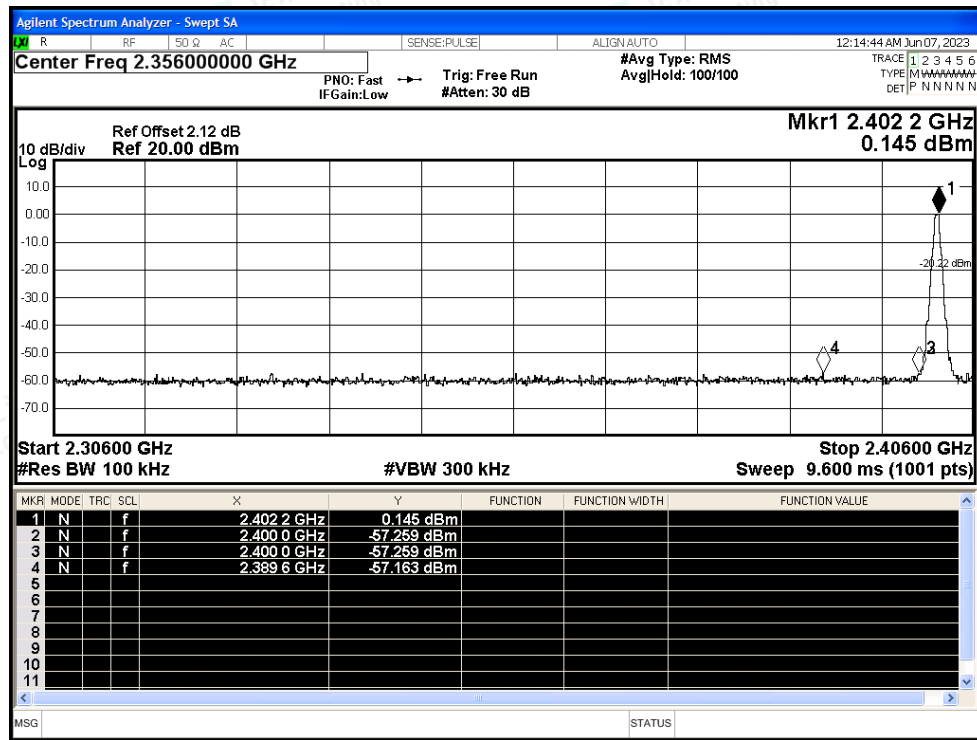


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Ref

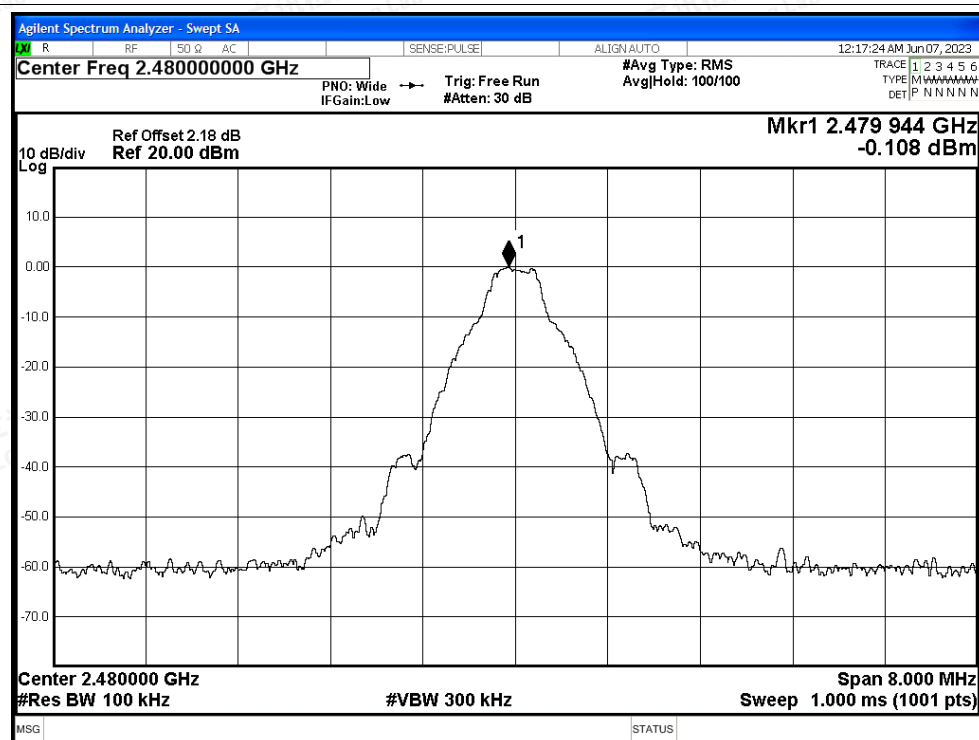


Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Emission

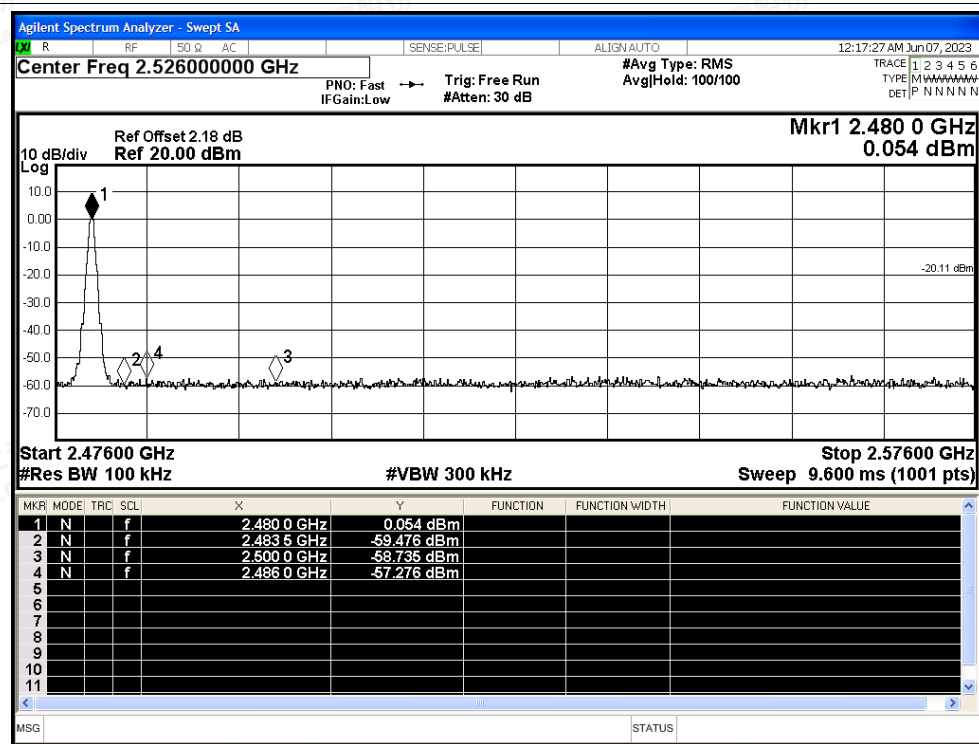




Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Ref



Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Emission



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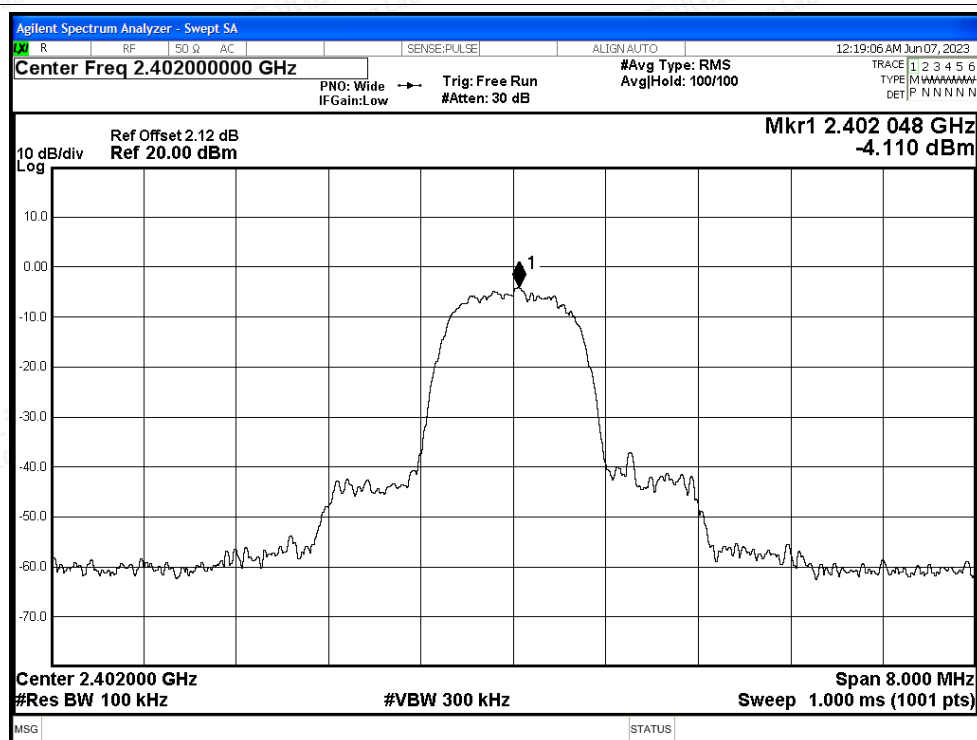
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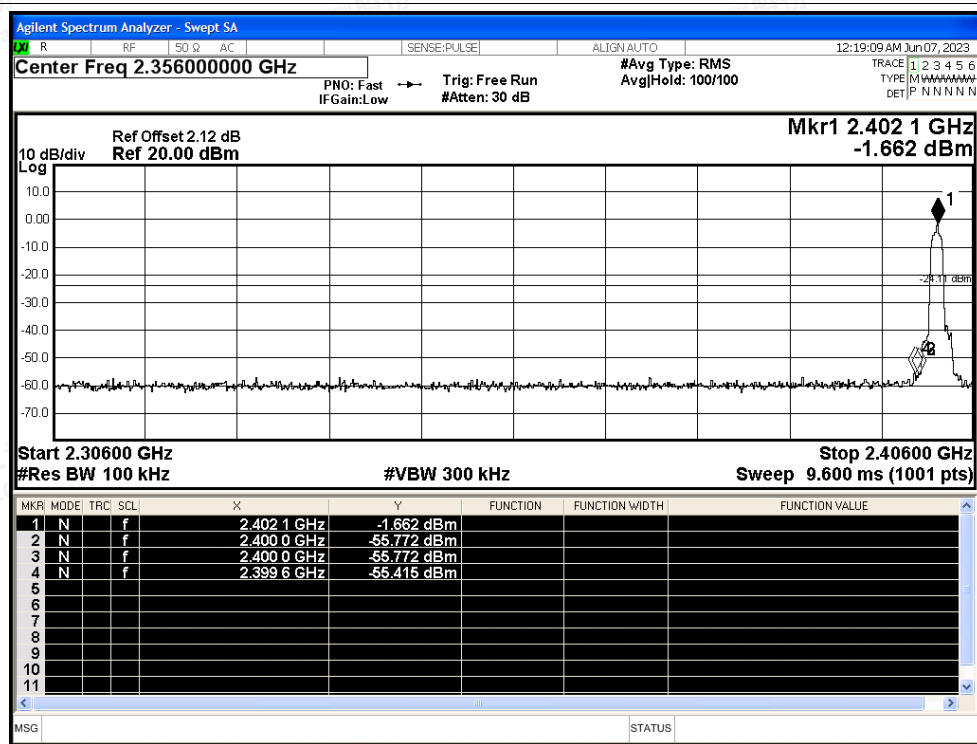
Scan code to check authenticity



Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Ref



Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Emission



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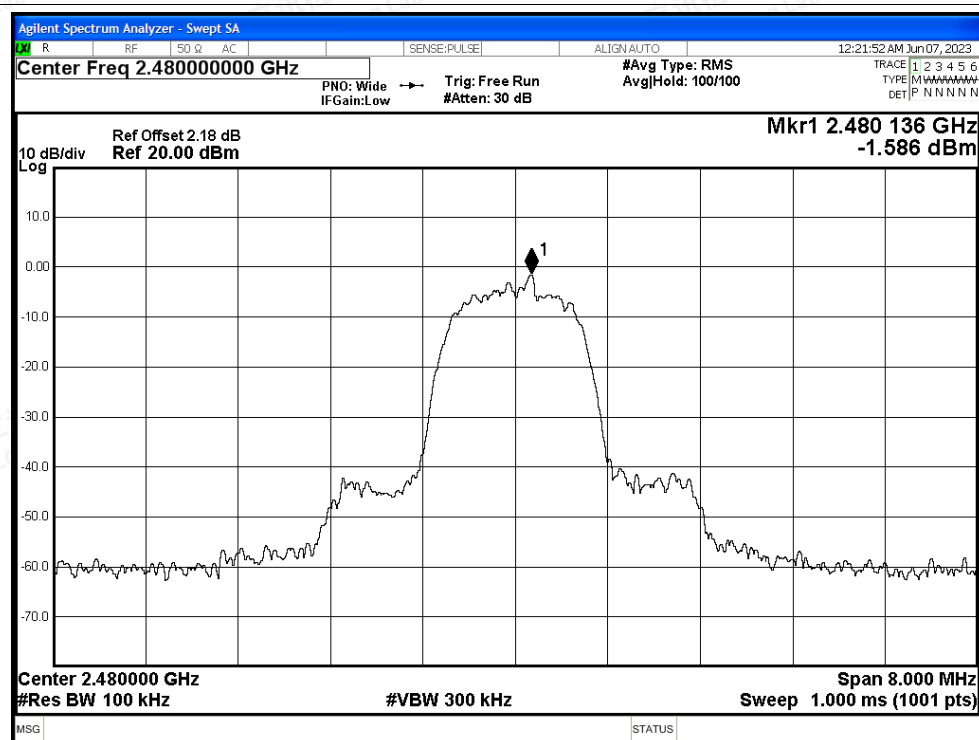
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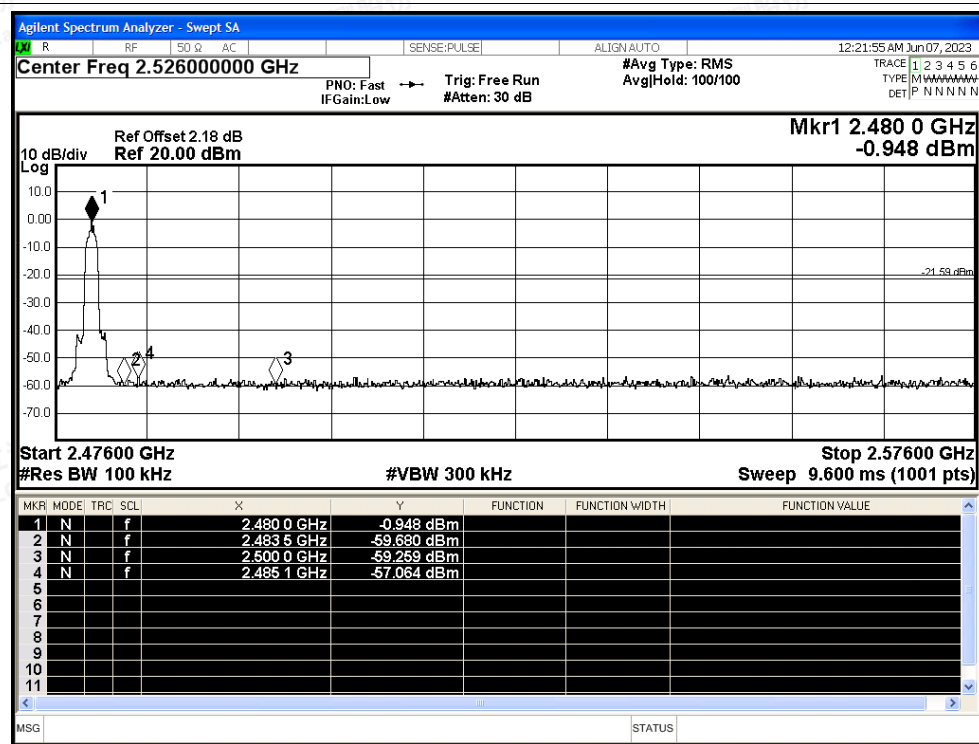
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Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Ref

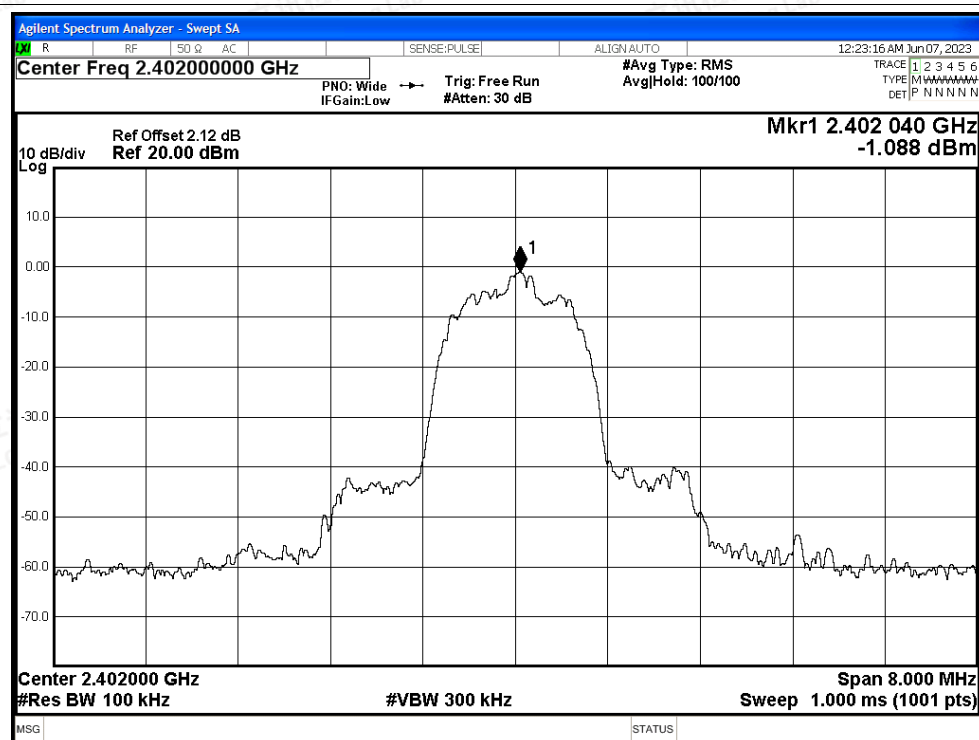


Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Emission

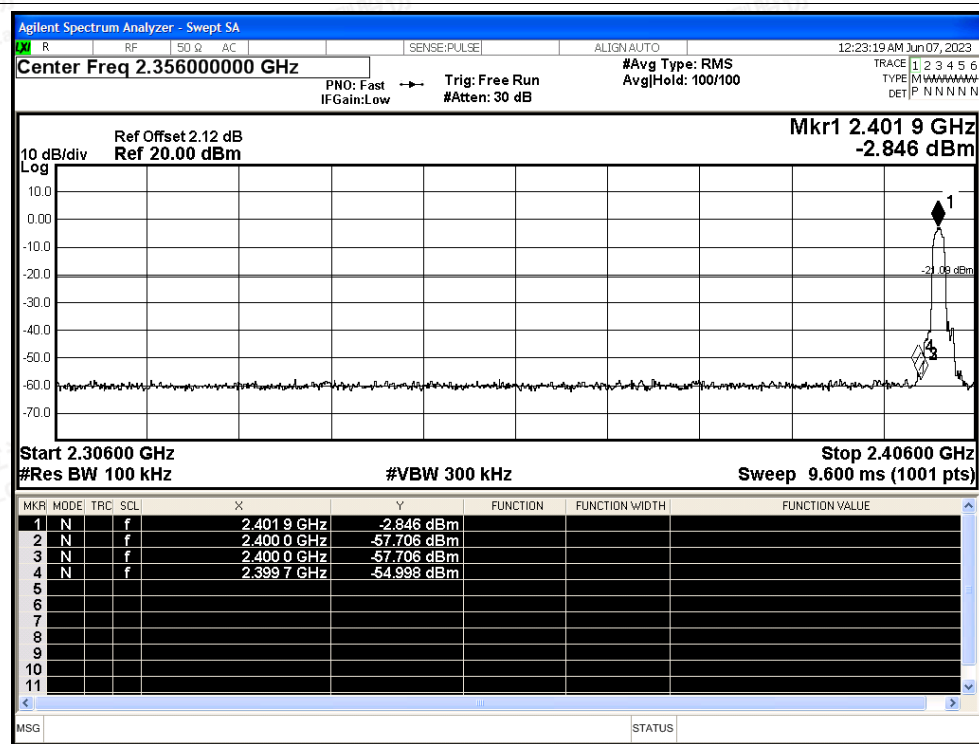




Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Ref

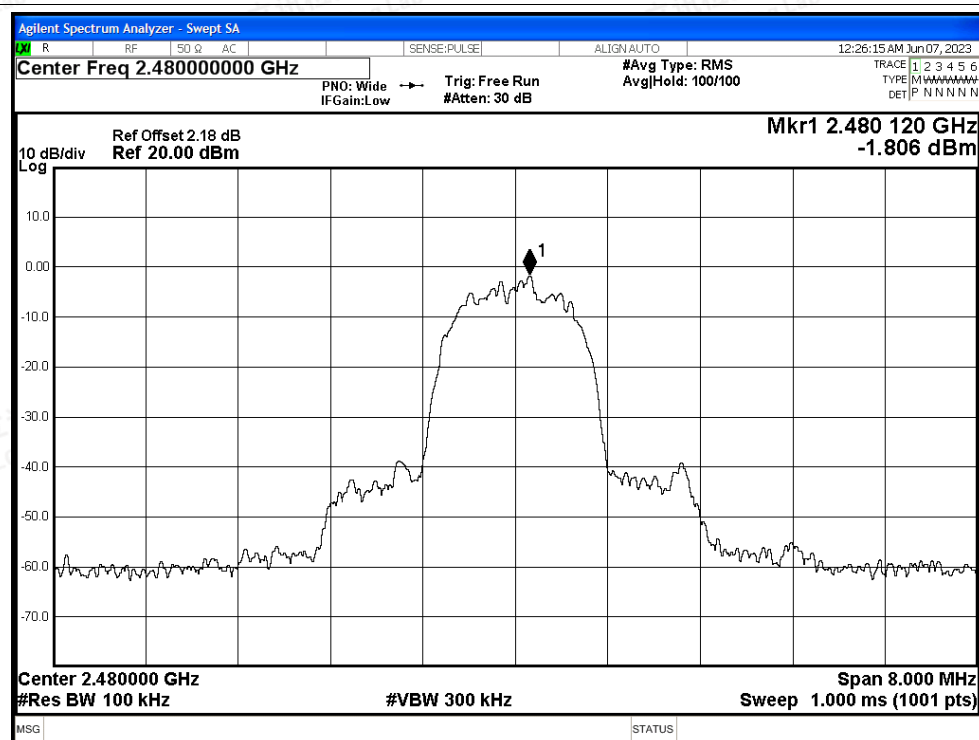


Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Emission

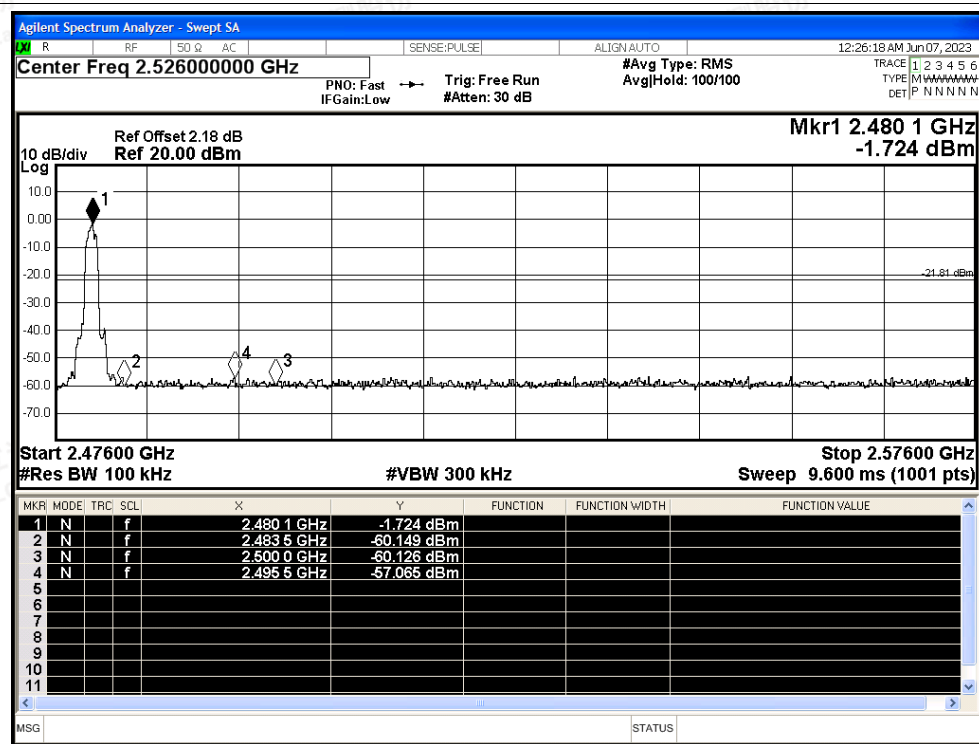




Band Edge NVNT 3-DH5 2480MHz Ant0 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant0 No-Hopping Emission





(Hopping)

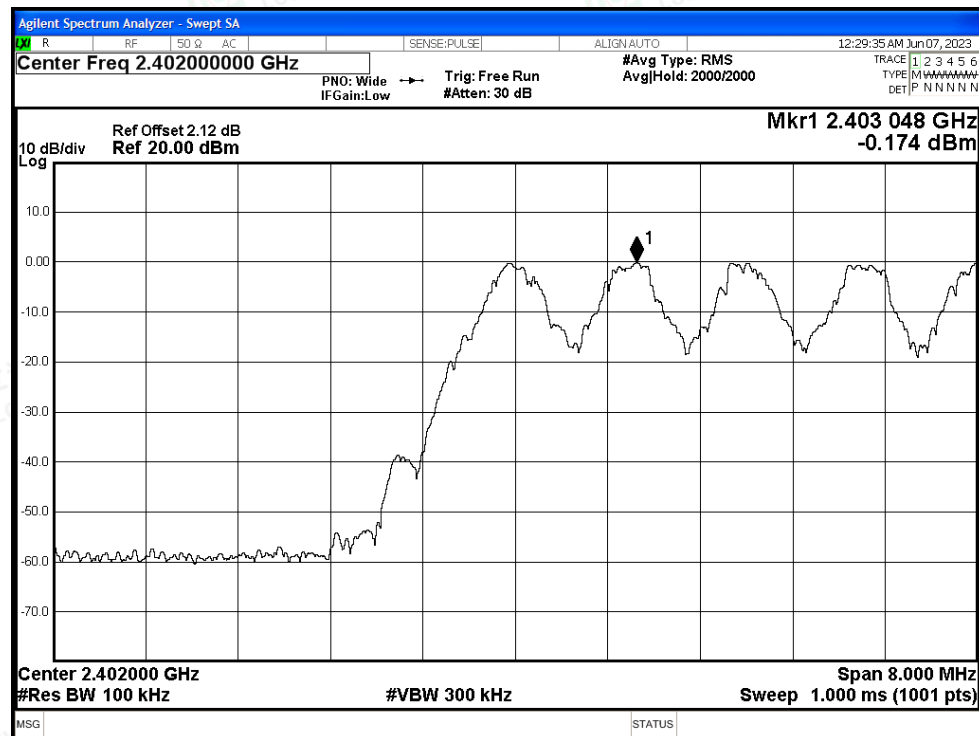
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	Hopping	-55.95	-20	Pass
NVNT	1-DH5	2480	Ant0	Hopping	-55.56	-20	Pass
NVNT	2-DH5	2402	Ant0	Hopping	-55.62	-20	Pass
NVNT	2-DH5	2480	Ant0	Hopping	-54.13	-20	Pass
NVNT	3-DH5	2402	Ant0	Hopping	-55.53	-20	Pass
NVNT	3-DH5	2480	Ant0	Hopping	-54.88	-20	Pass



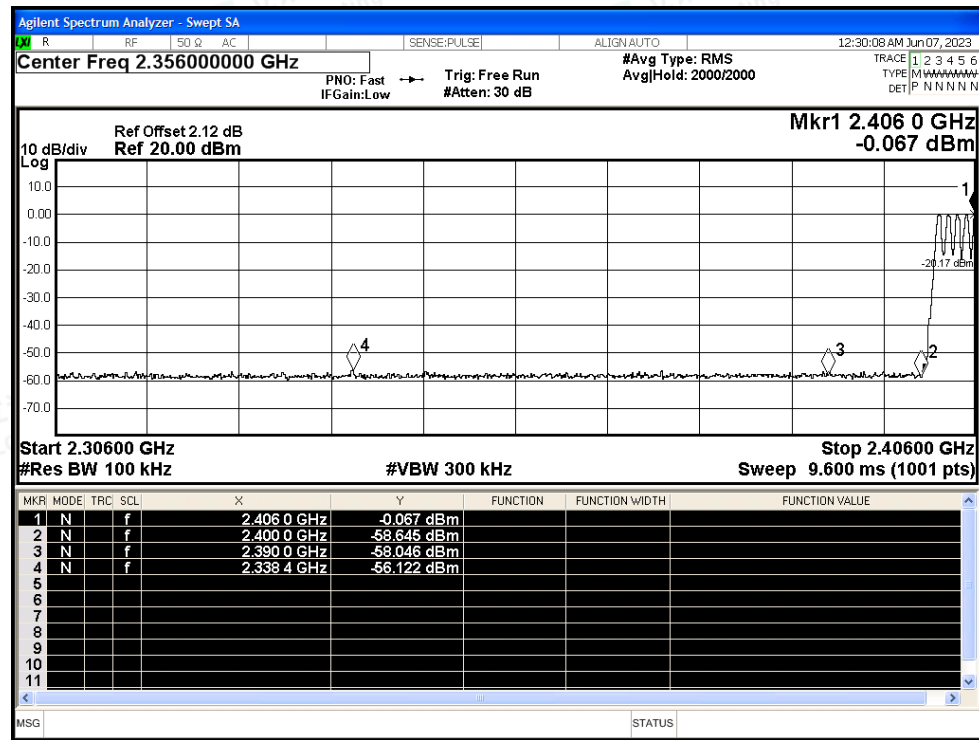


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Emission



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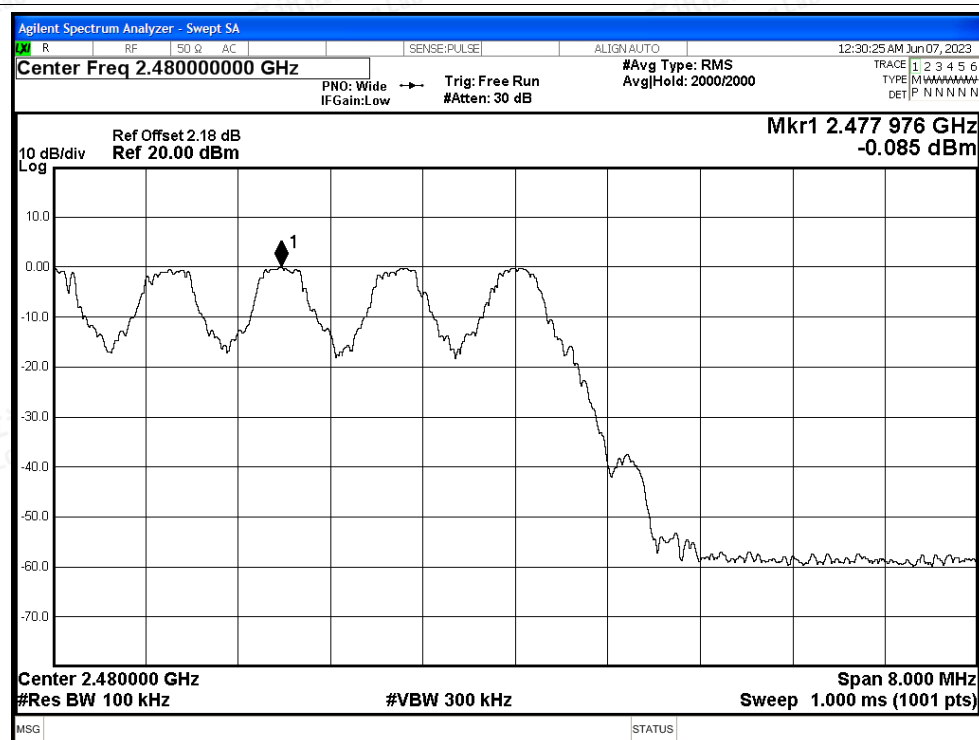
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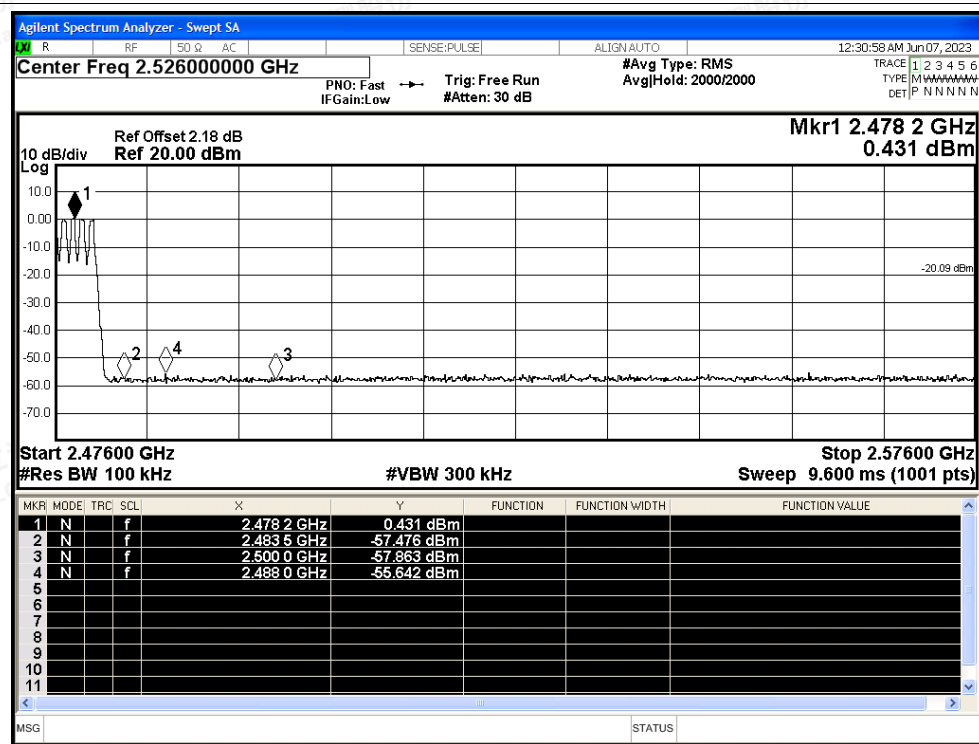
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant0 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant0 Hopping Emission



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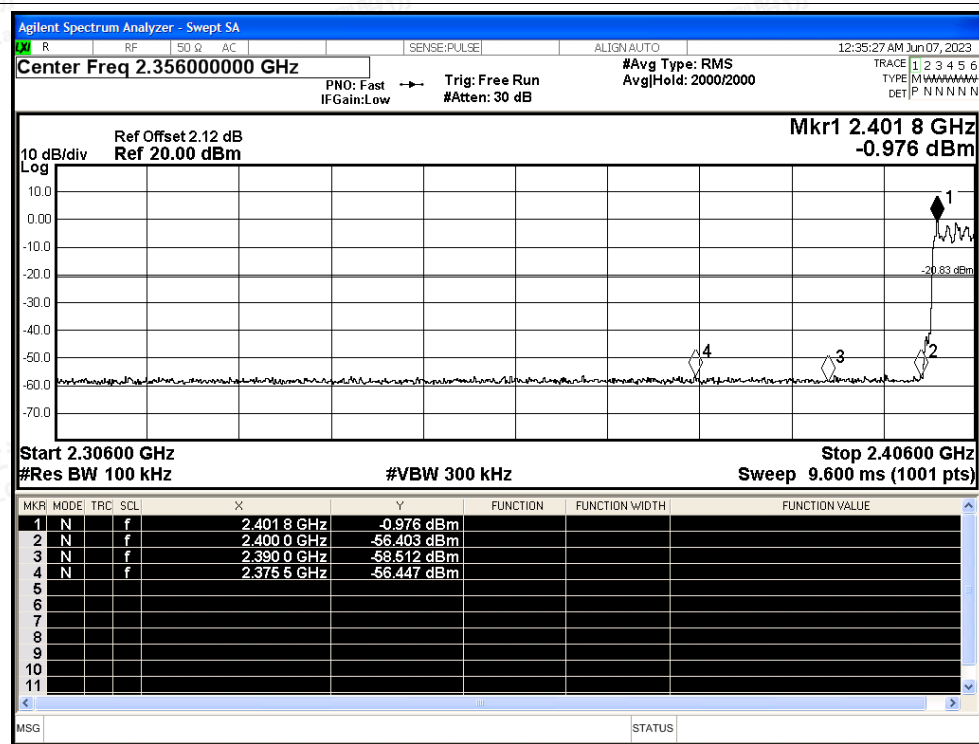
Scan code to check authenticity



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant0 Hopping Ref

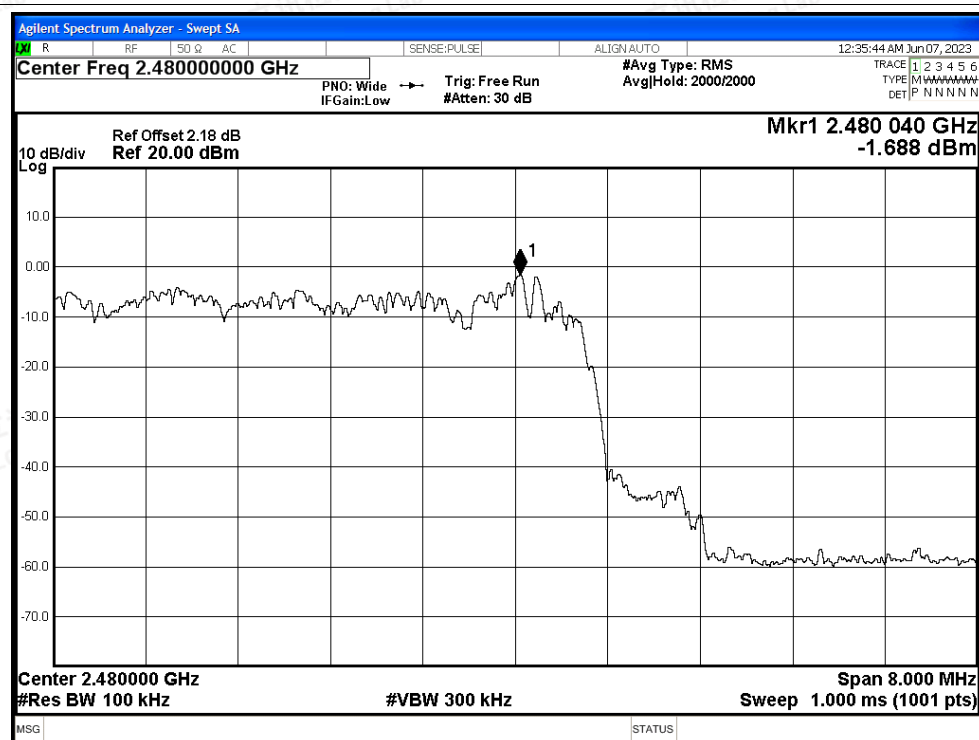


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant0 Hopping Emission

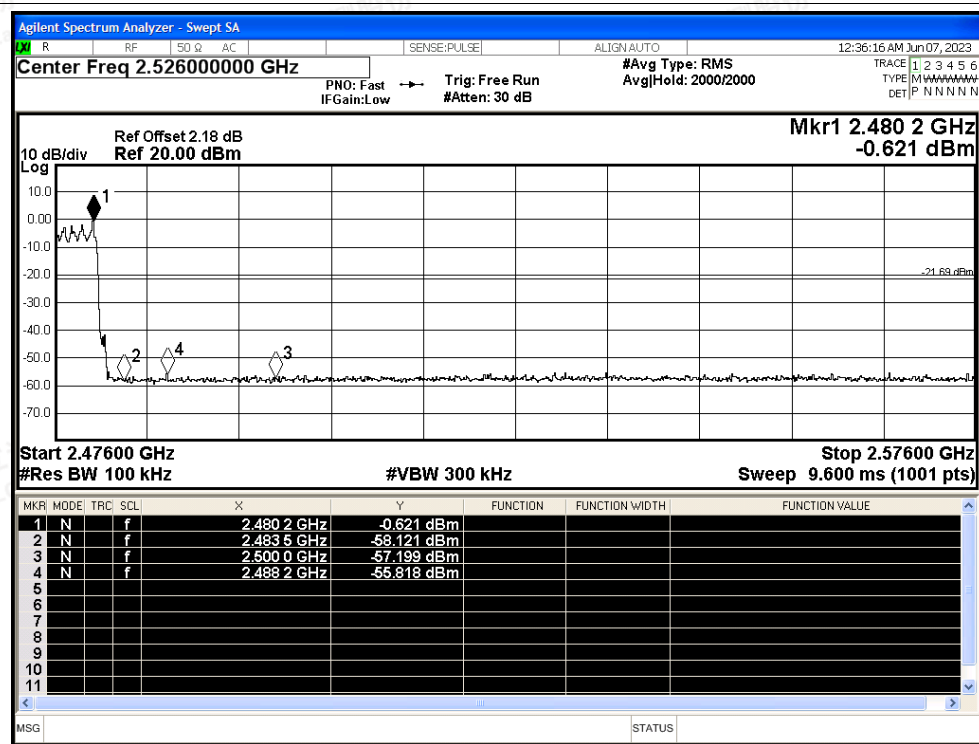




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant0 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant0 Hopping Emission

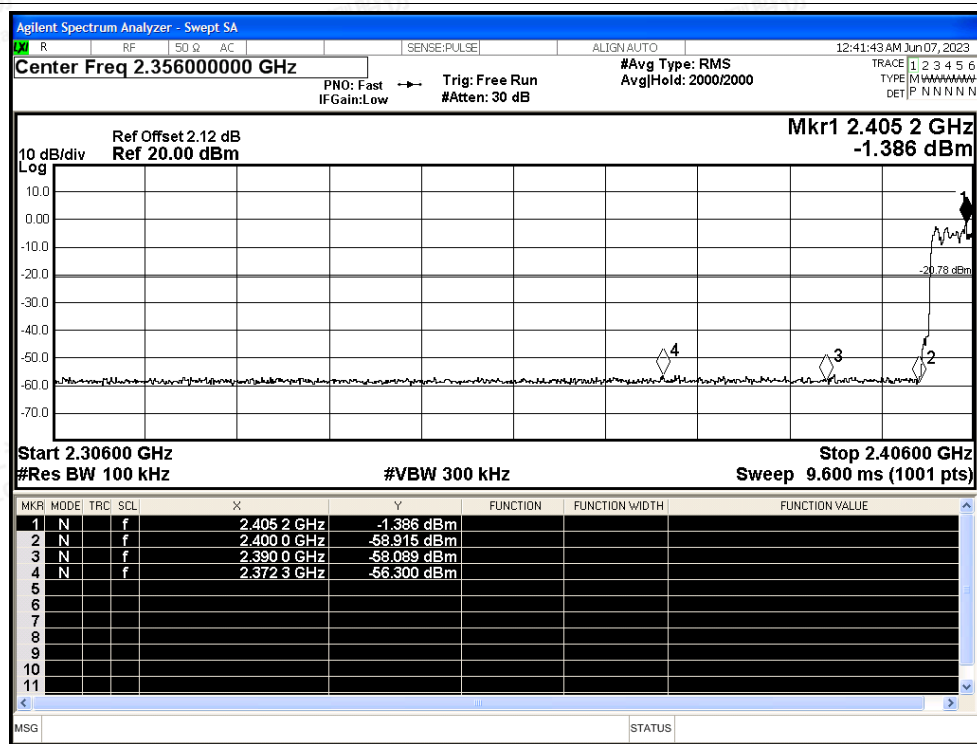




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant0 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant0 Hopping Emission



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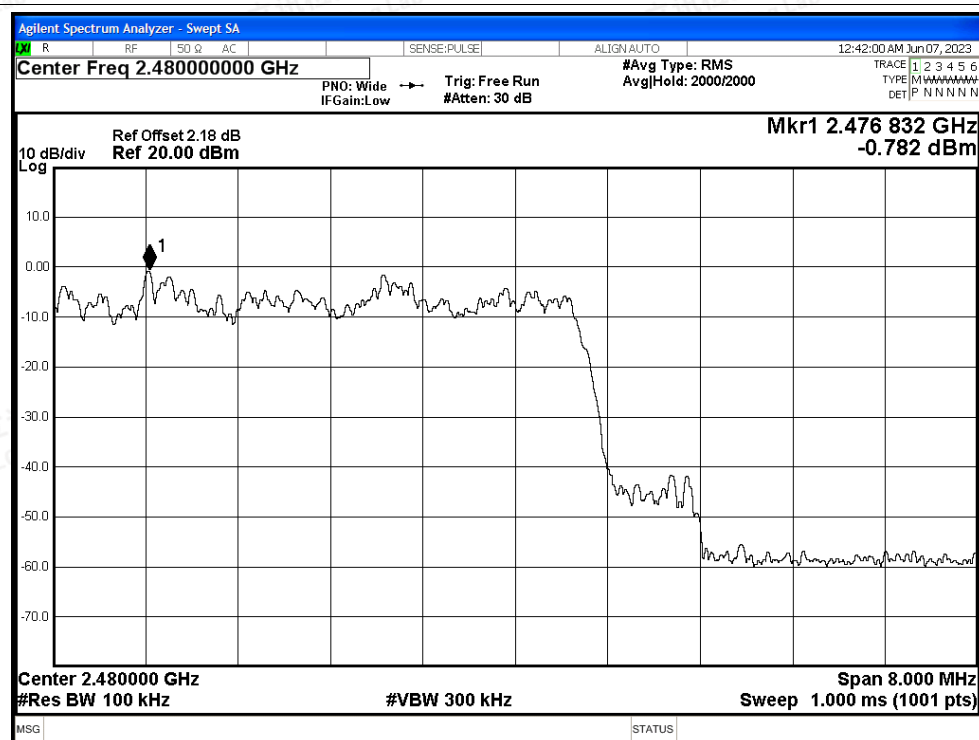
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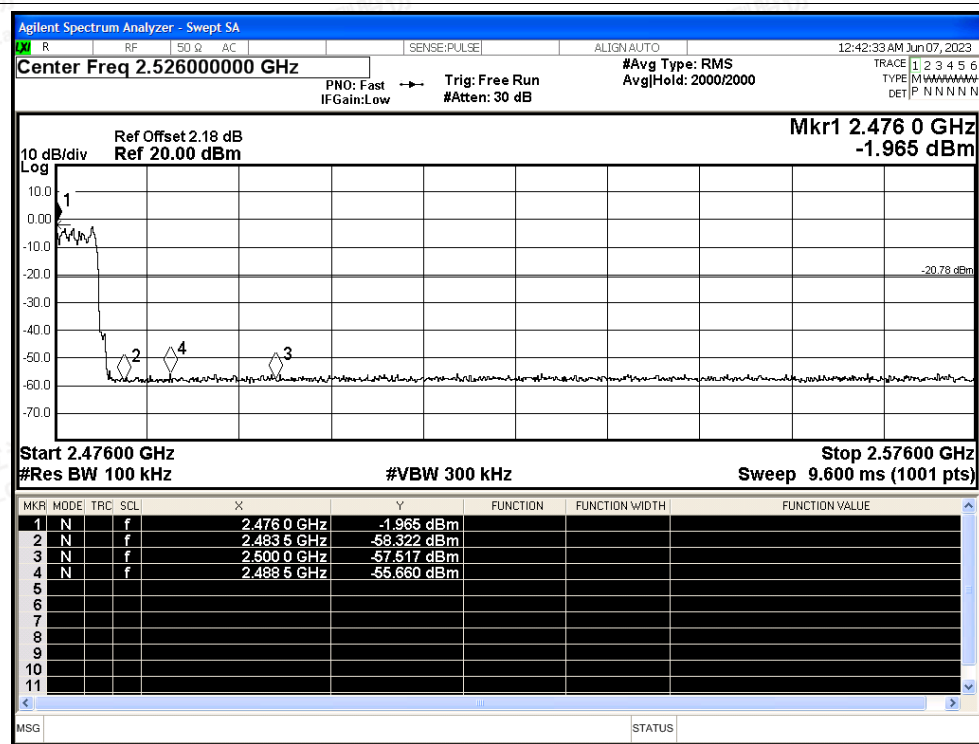
Scan code to check authenticity



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant0 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant0 Hopping Emission





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	-55.9	-20	Pass
NVNT	1-DH5	2441	Ant0	-55.92	-20	Pass
NVNT	1-DH5	2480	Ant0	-56.2	-20	Pass
NVNT	2-DH5	2402	Ant0	-52.28	-20	Pass
NVNT	2-DH5	2441	Ant0	-55.28	-20	Pass
NVNT	2-DH5	2480	Ant0	-52.88	-20	Pass
NVNT	3-DH5	2402	Ant0	-55.43	-20	Pass
NVNT	3-DH5	2441	Ant0	-54.5	-20	Pass
NVNT	3-DH5	2480	Ant0	-53.63	-20	Pass

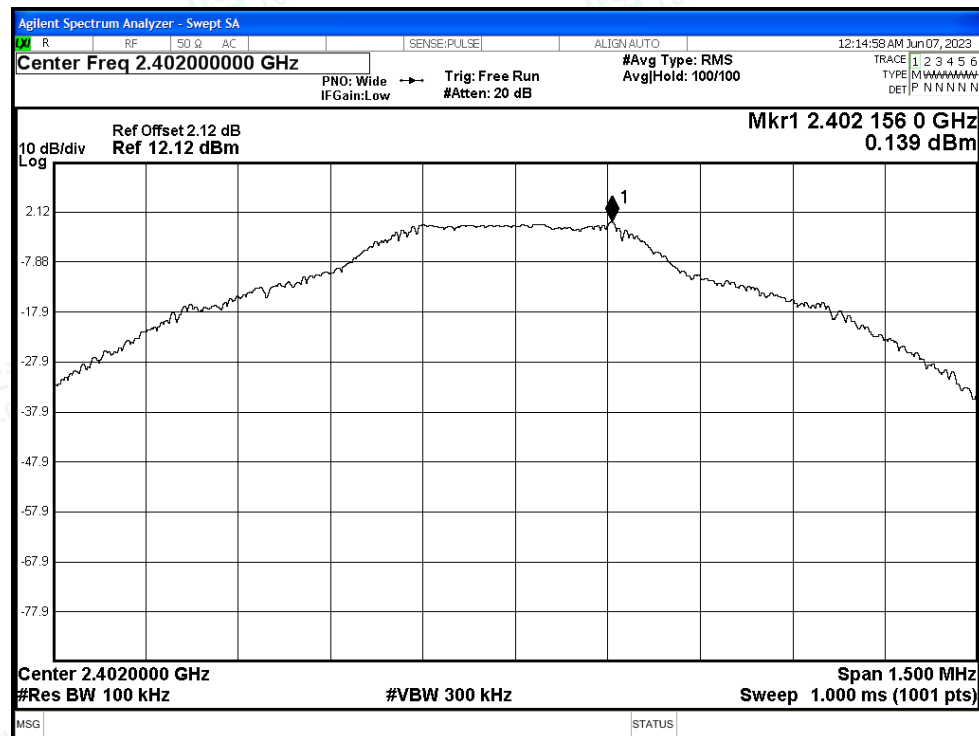


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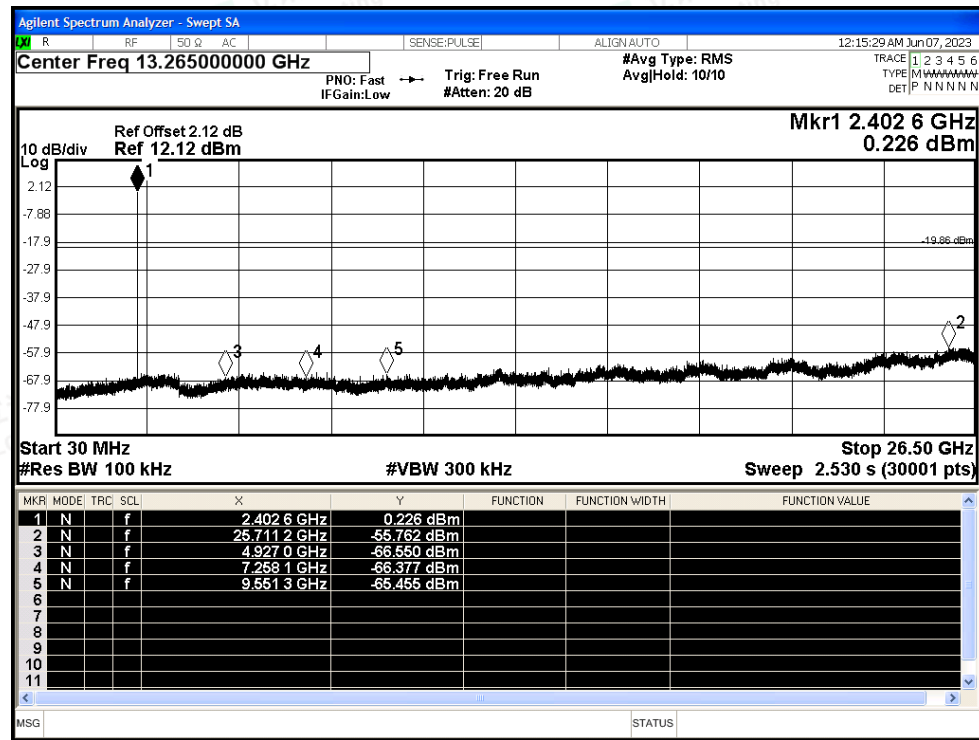


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Ref

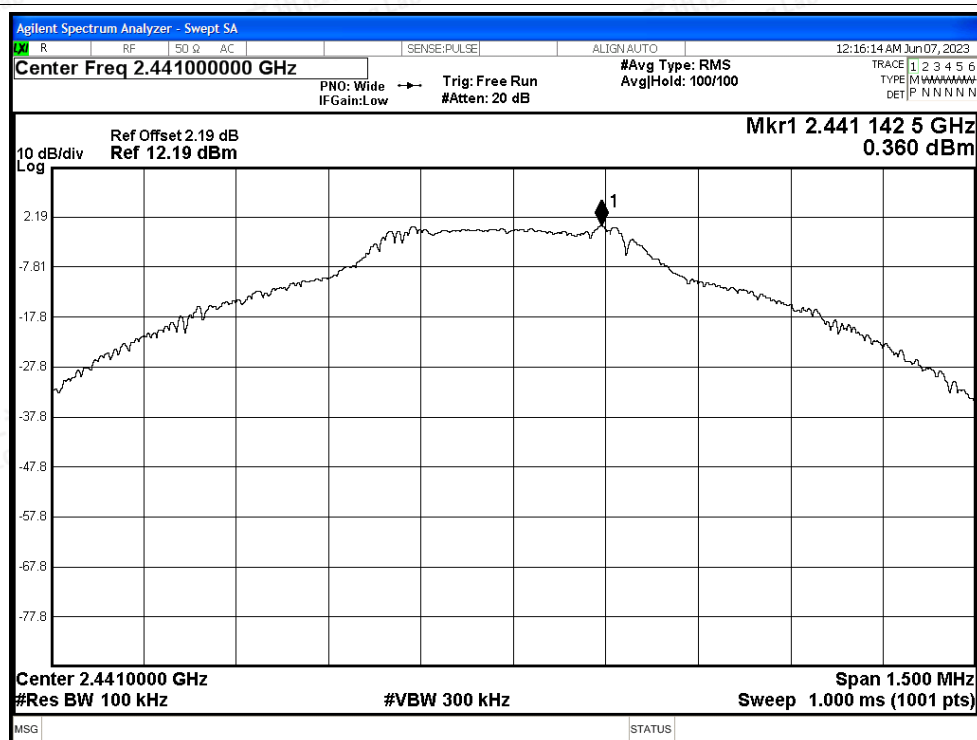


Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Emission

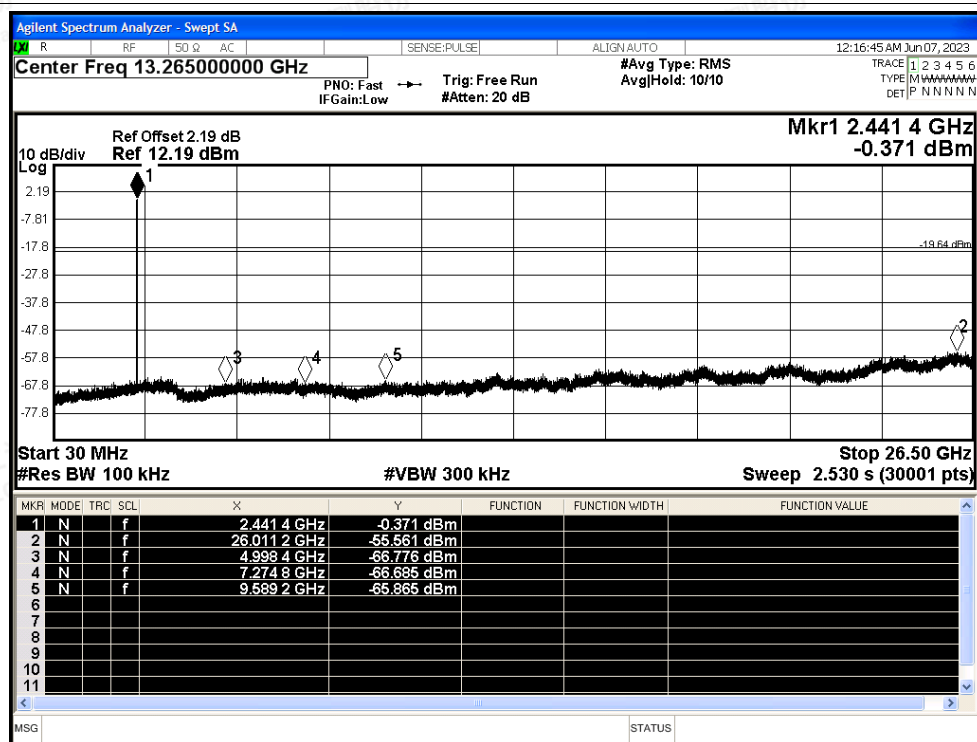




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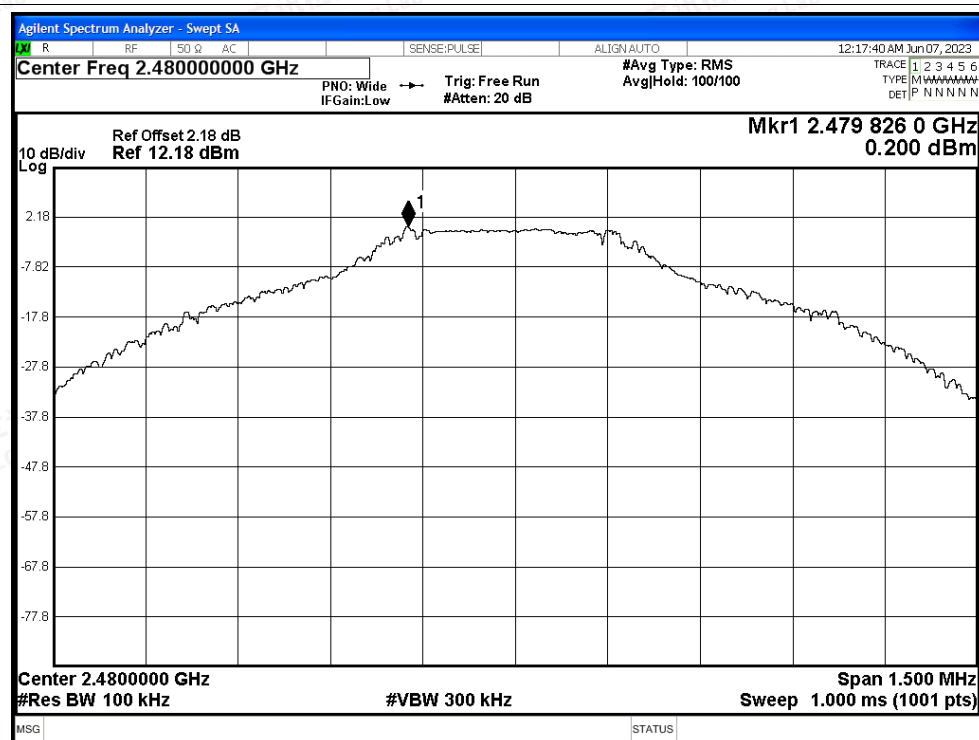


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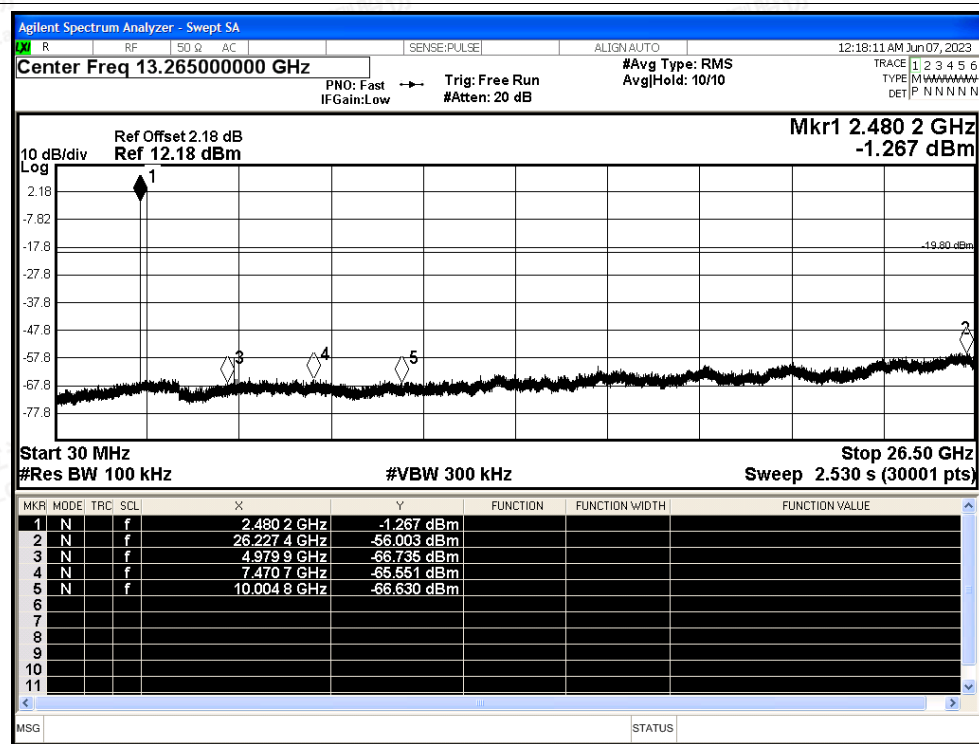




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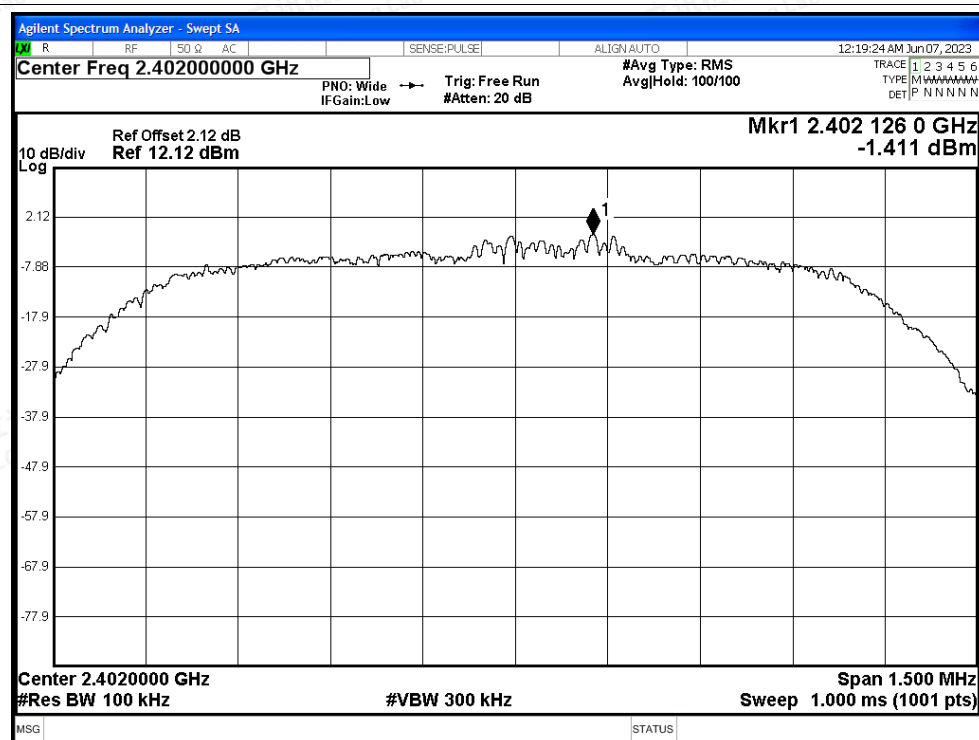


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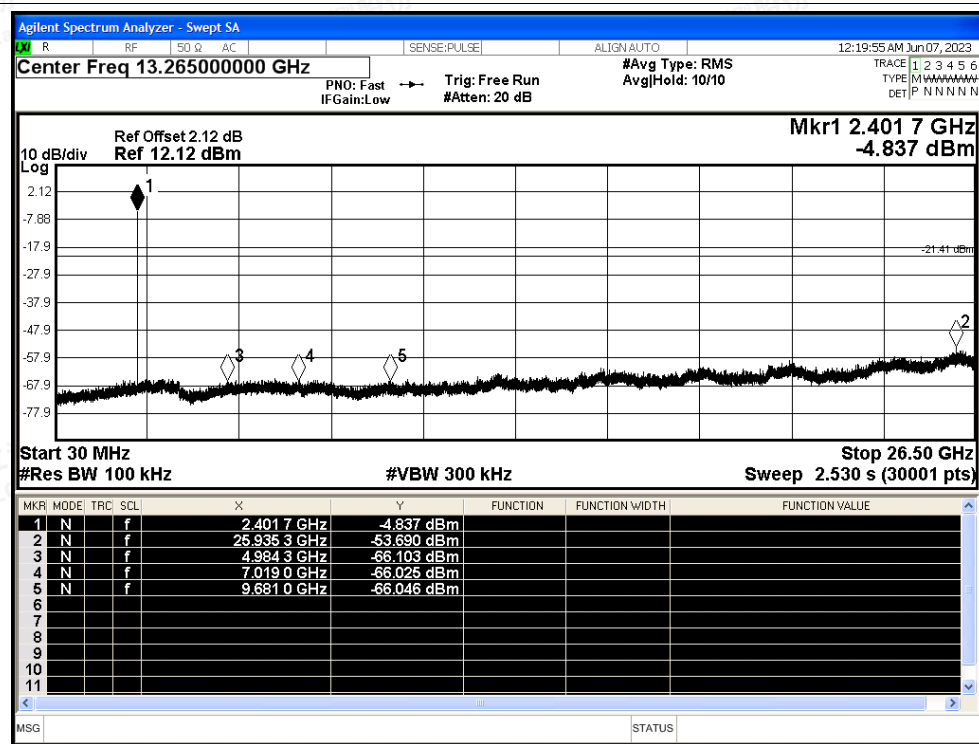




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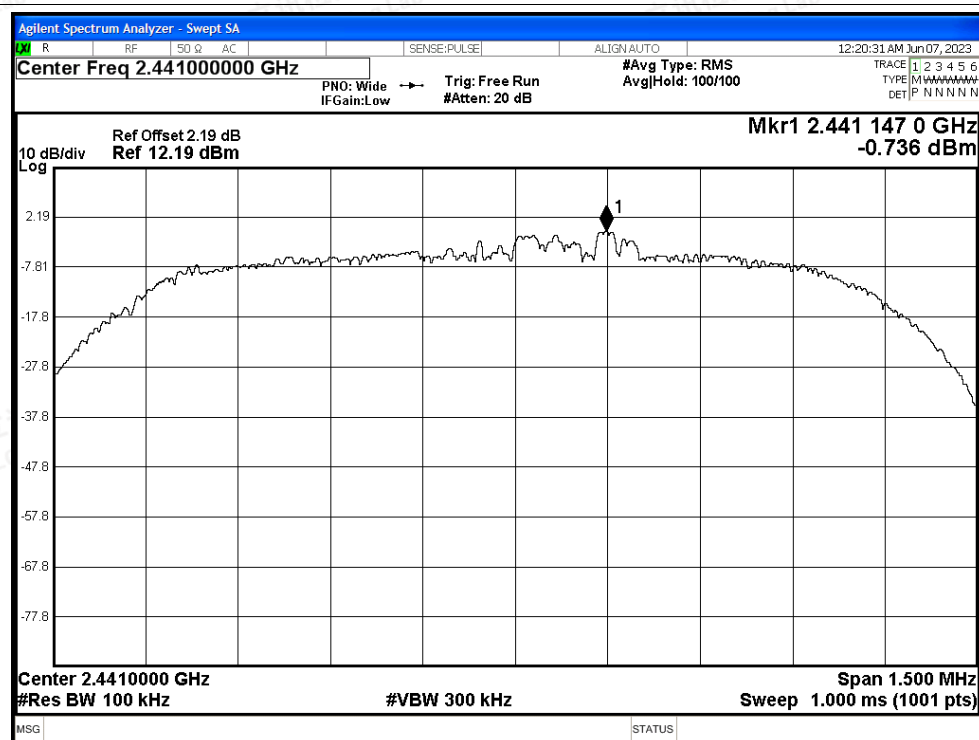


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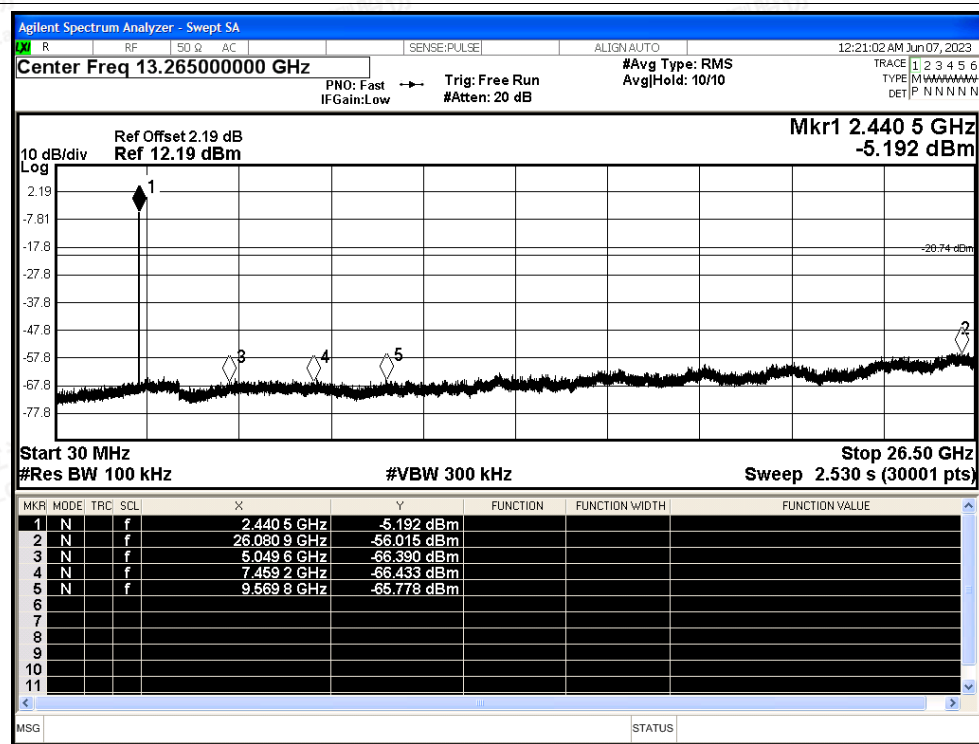




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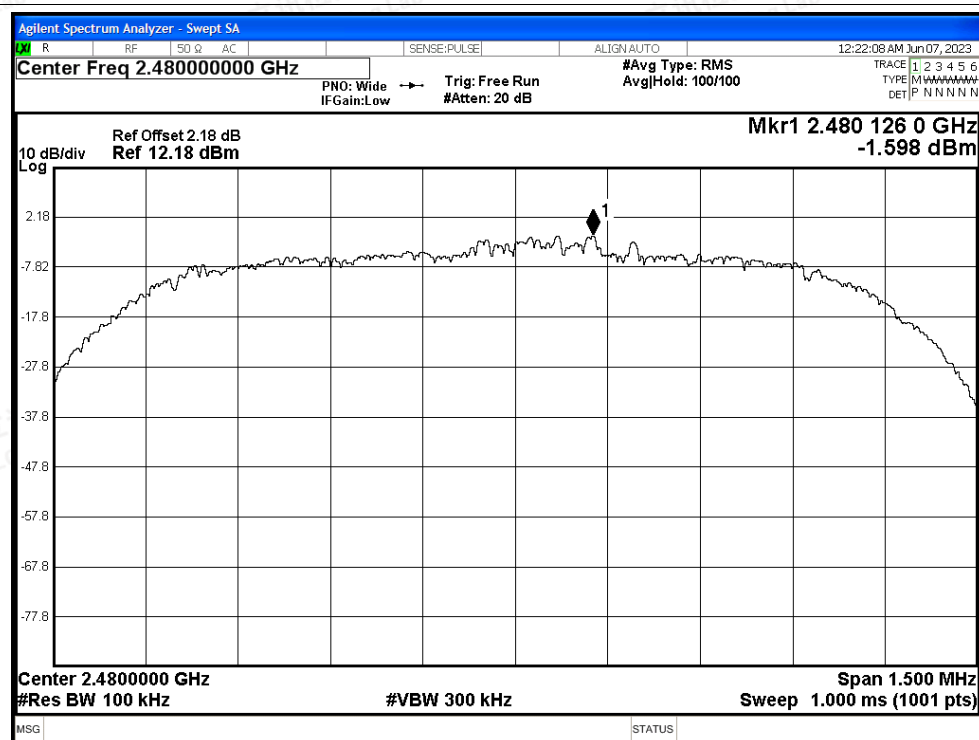


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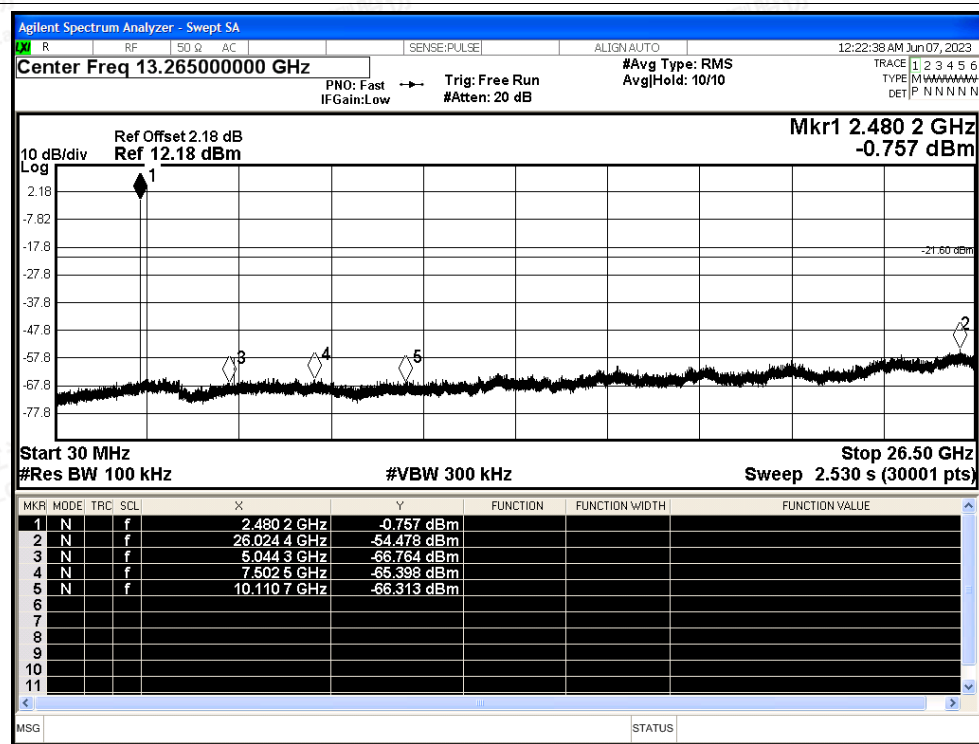




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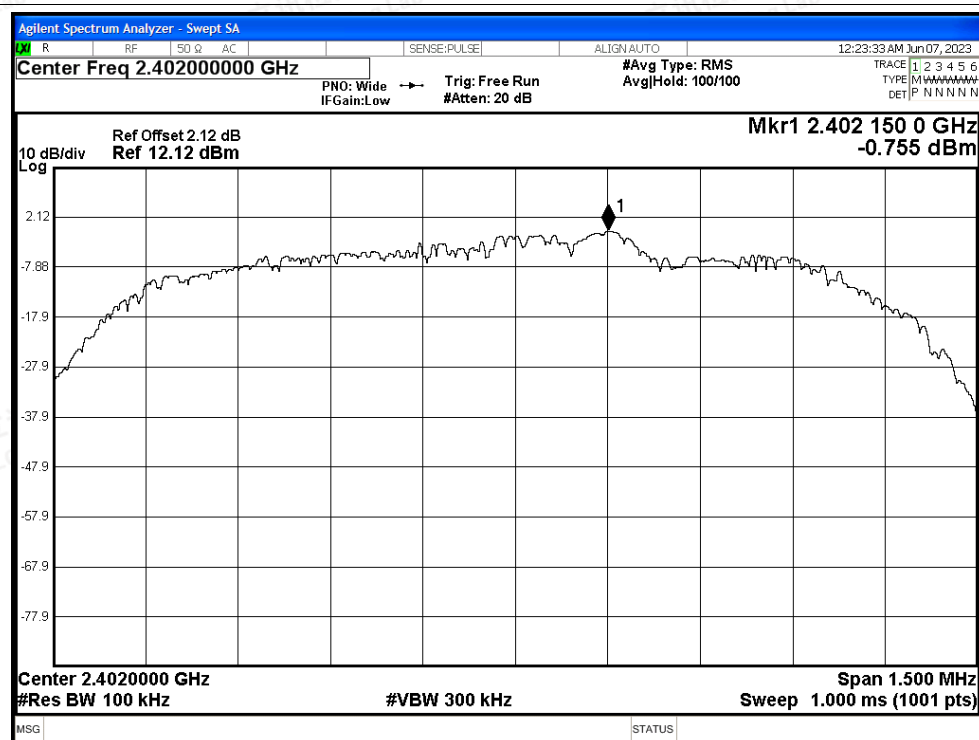


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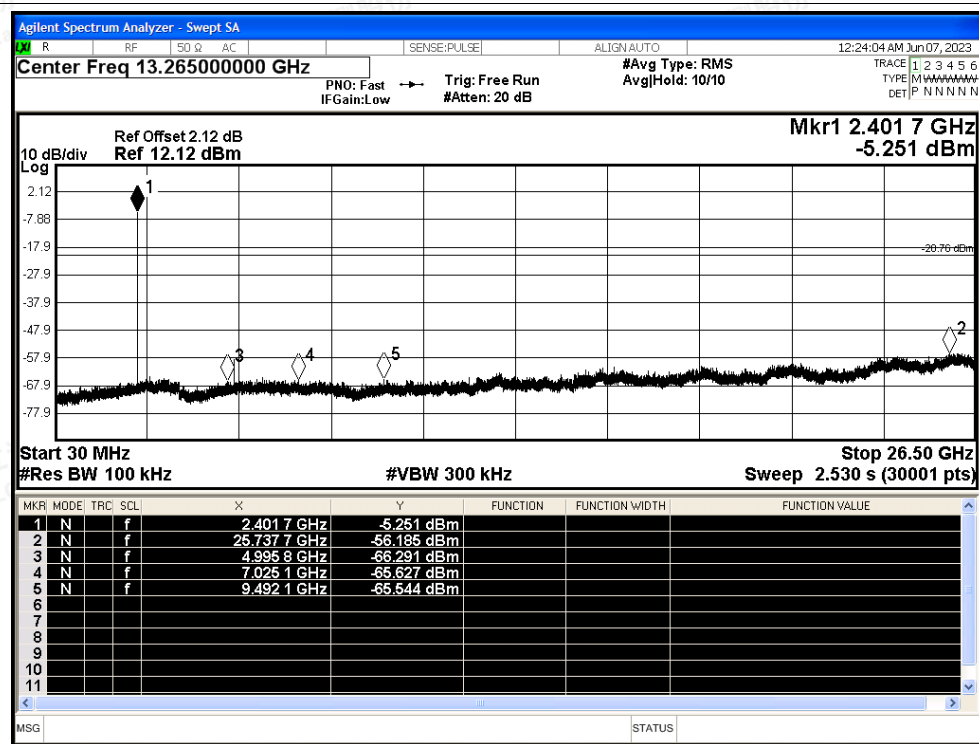




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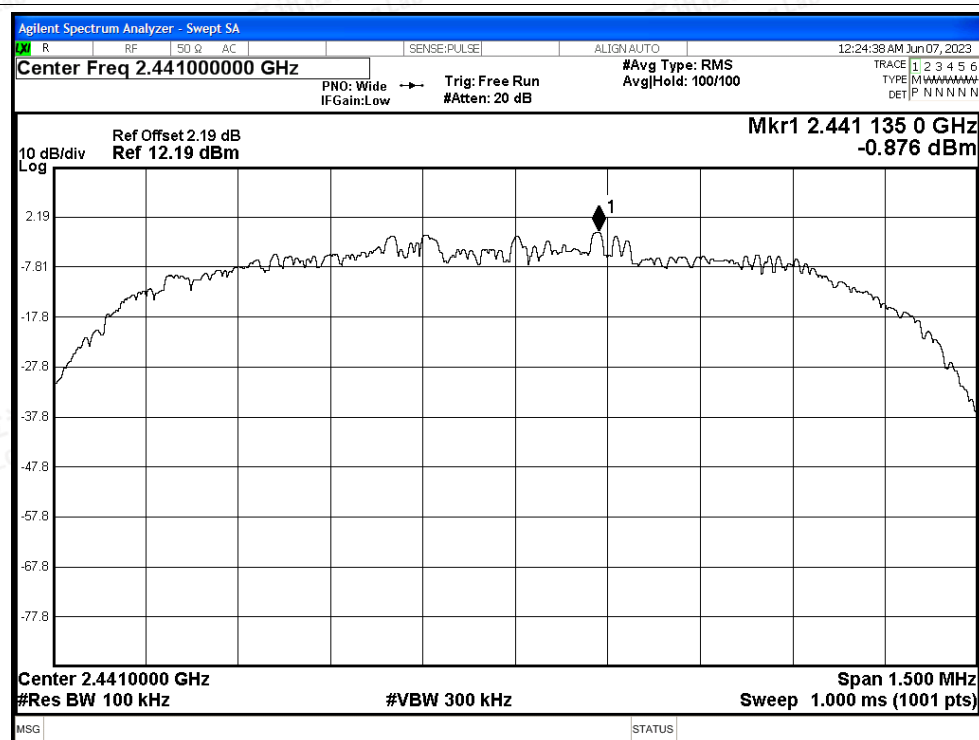


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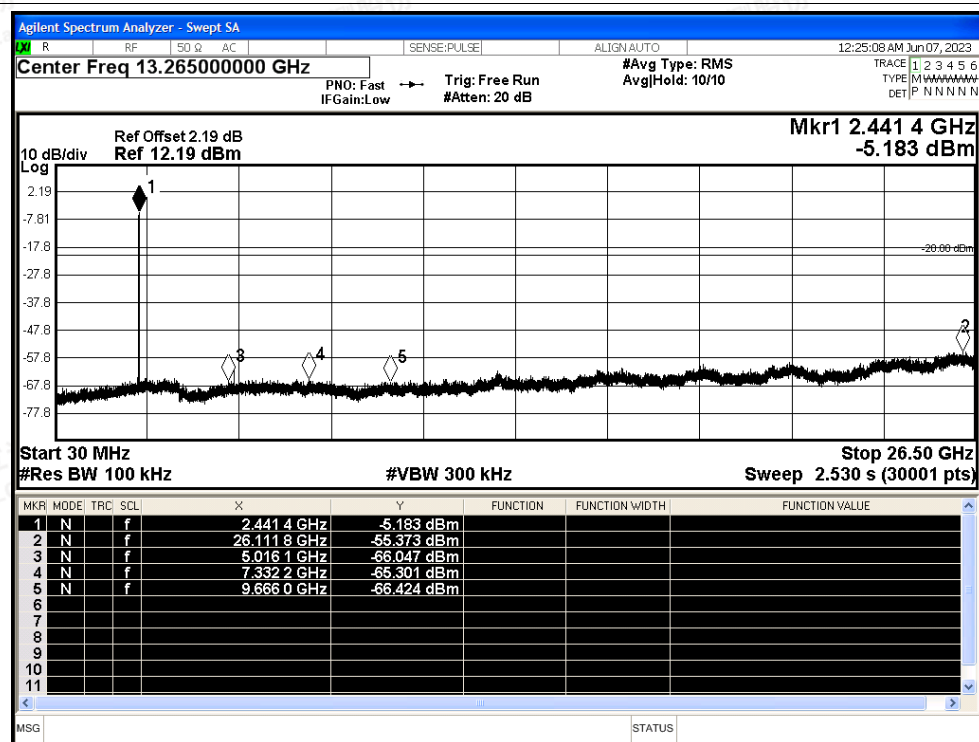




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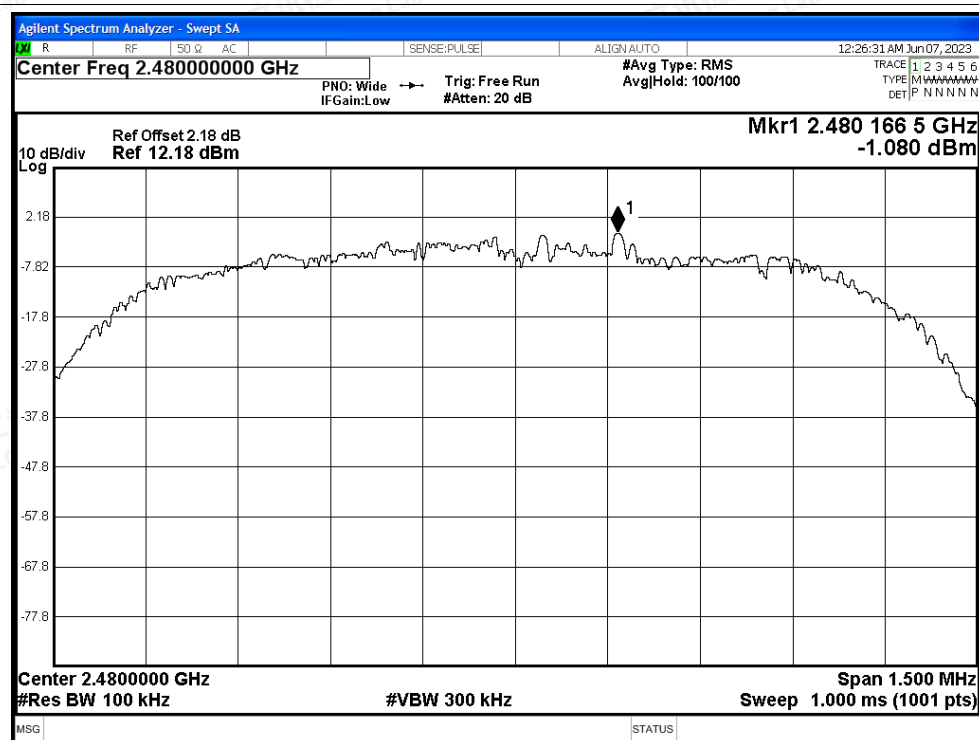


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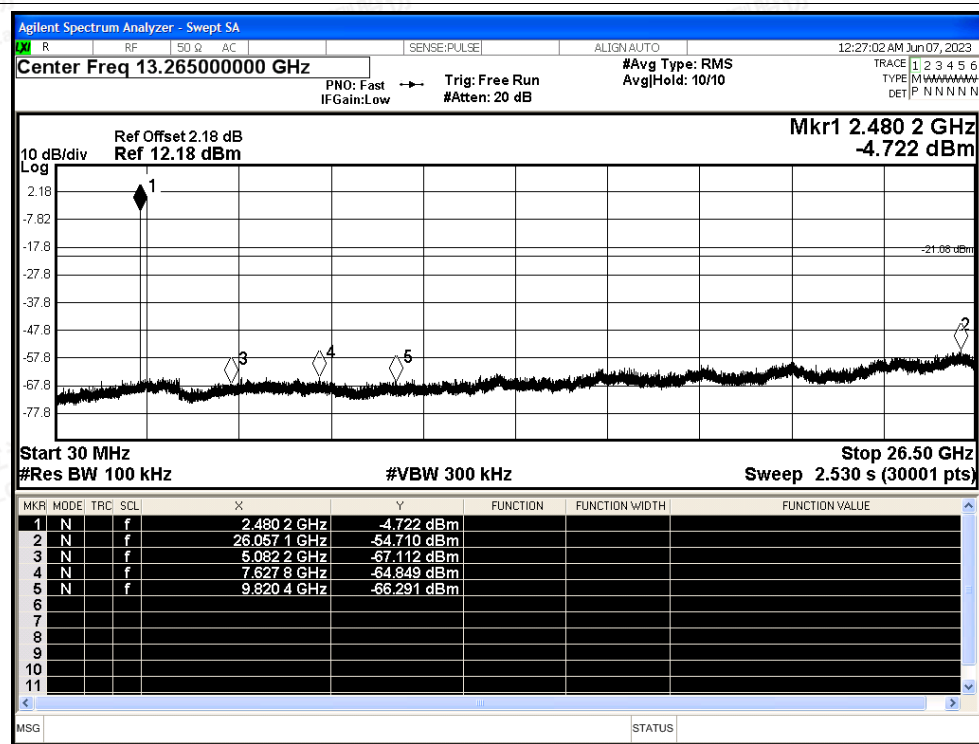




Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Emission





A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant0	No-Hopping	2310	-50.9	2	46.36	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2310	-58.08	2	39.18	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2350.608	-47.38	2	49.88	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2378.736	-57.51	2	39.75	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-51.21	2	46.05	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-57.67	2	39.59	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-49.63	2	47.63	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-55.87	2	41.39	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2499.928	-46.98	2	50.28	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.512	-55.87	2	41.39	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-51.13	2	46.13	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-57.44	2	39.82	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-51.11	2	46.15	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-58.04	2	39.22	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2376.912	-46.97	2	50.29	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2389.872	-57.53	2	39.73	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-49.39	2	47.87	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-57.53	2	39.73	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-48.58	2	48.68	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-55.6	2	41.66	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2498.728	-47.53	2	49.73	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.512	-55.6	2	41.66	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-50.31	2	46.95	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-57.3	2	39.96	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-49.13	2	48.13	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-58.06	2	39.2	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2363.28	-47.85	2	49.41	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2379.12	-57.49	2	39.77	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-50.81	2	46.45	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-57.68	2	39.58	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-51.14	2	46.12	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-55.57	2	41.69	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2496.664	-46.55	2	50.71	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.512	-55.57	2	41.69	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-49.67	2	47.59	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-57.23	2	40.03	Average	54	Pass

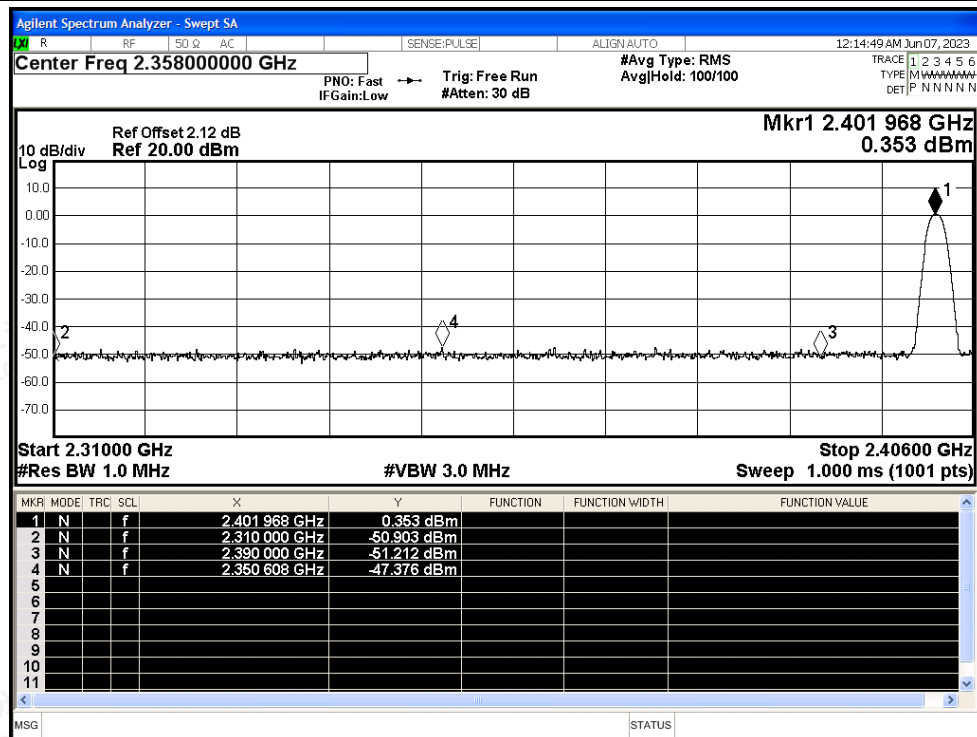


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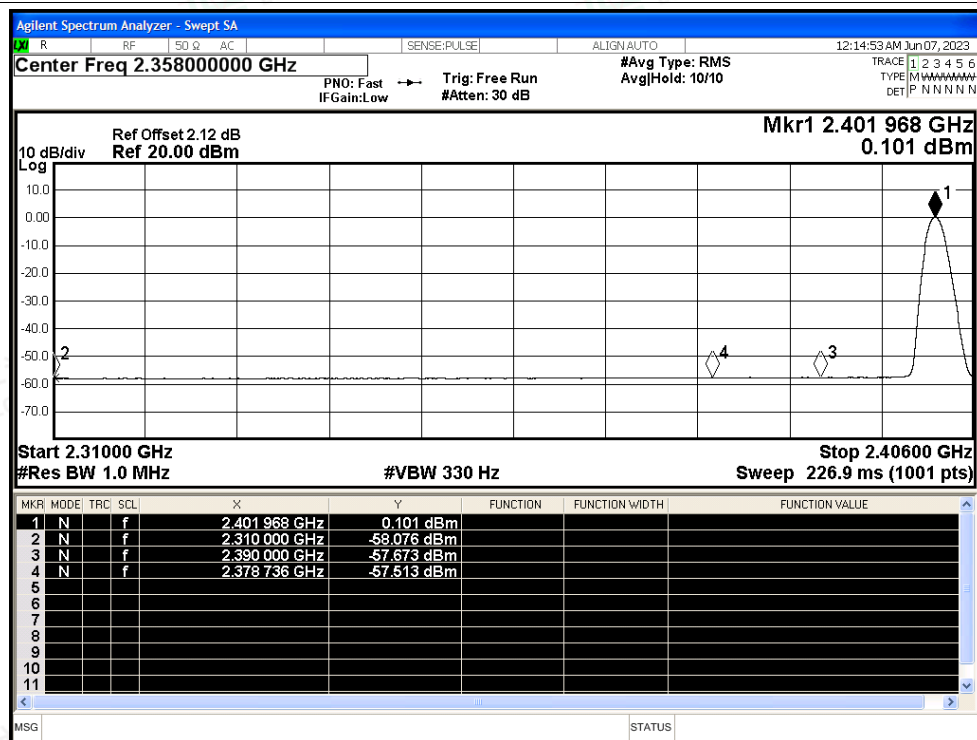


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant0 No-Hopping Peak

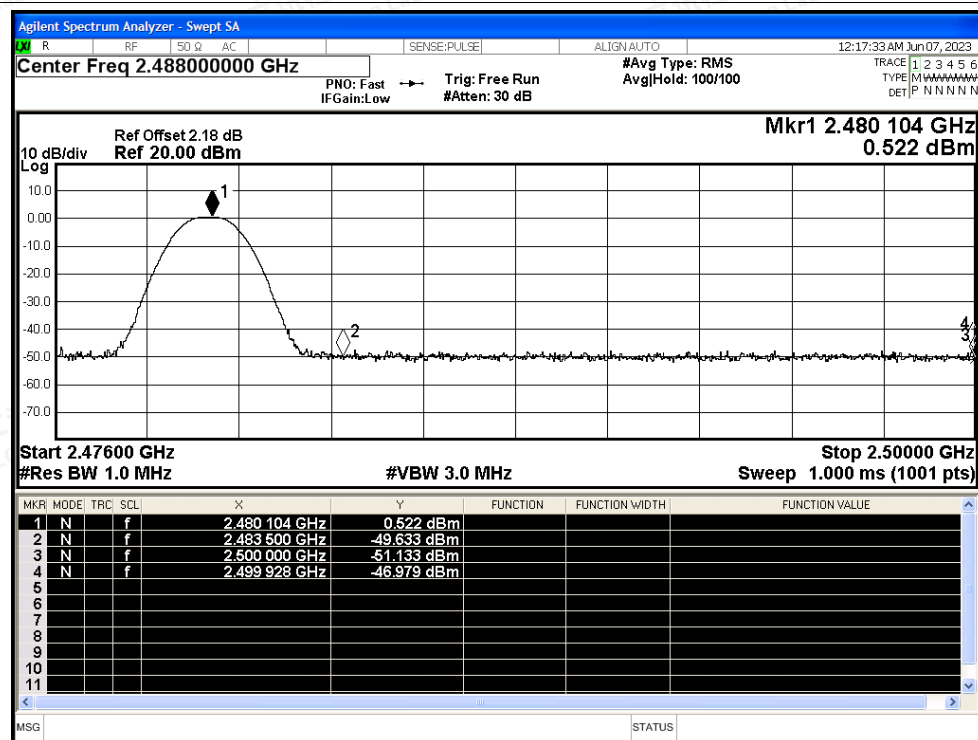


Restrict Band NVNT 1-DH5 2402MHz Ant0 No-Hopping Average

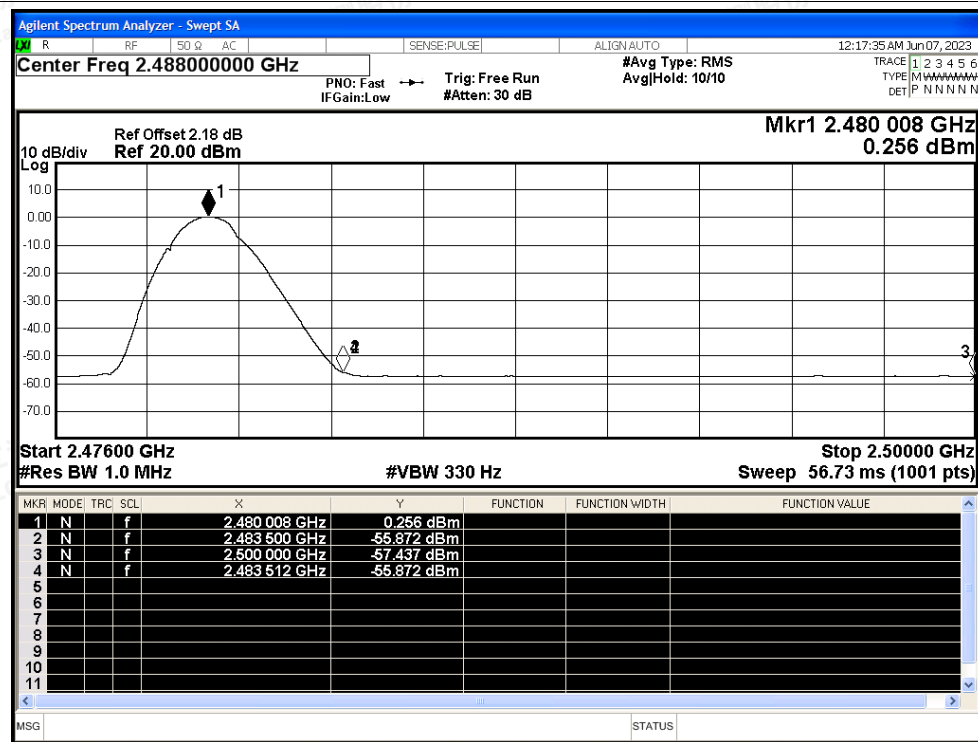




Restrict Band NVNT 1-DH5 2480MHz Ant0 No-Hopping Peak

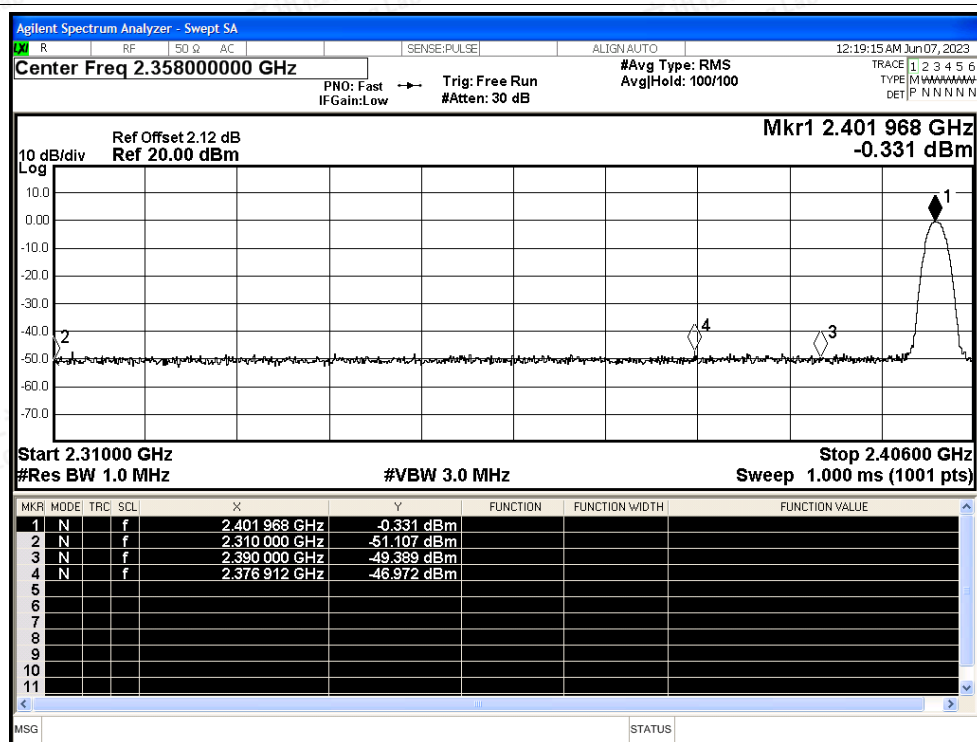


Restrict Band NVNT 1-DH5 2480MHz Ant0 No-Hopping Average

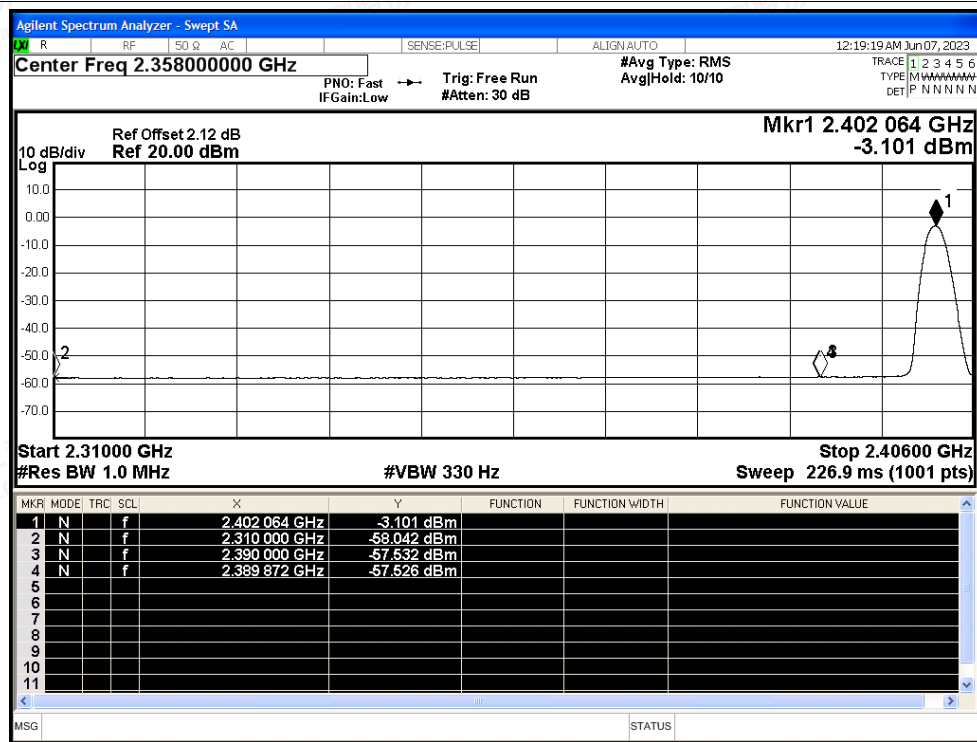




Restrict Band NVNT 2-DH5 2402MHz Ant0 No-Hopping Peak

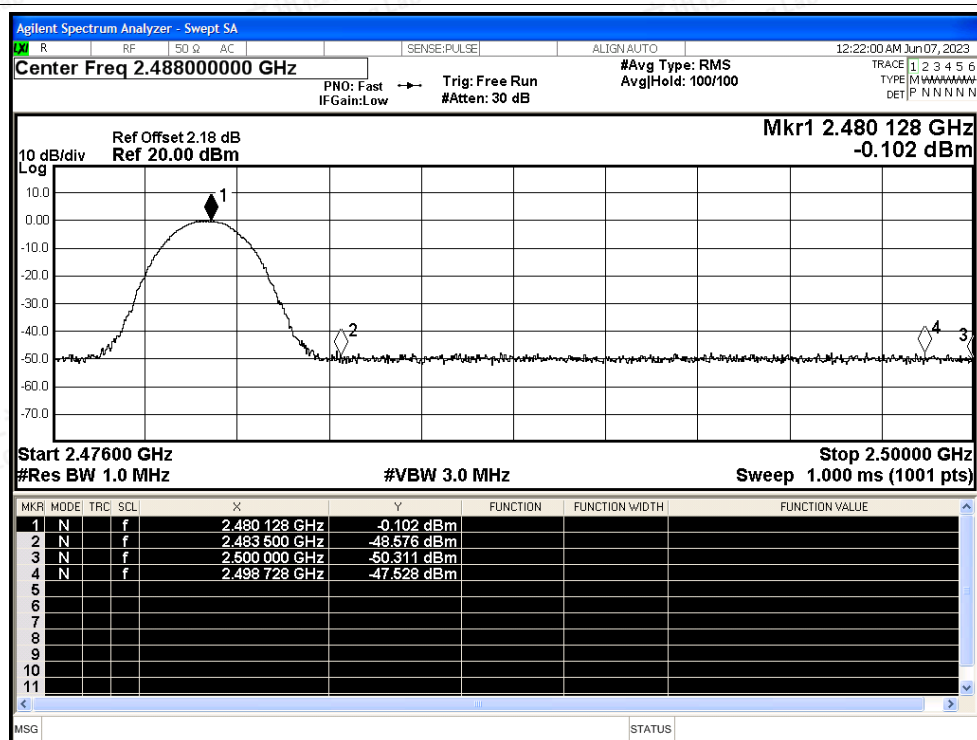


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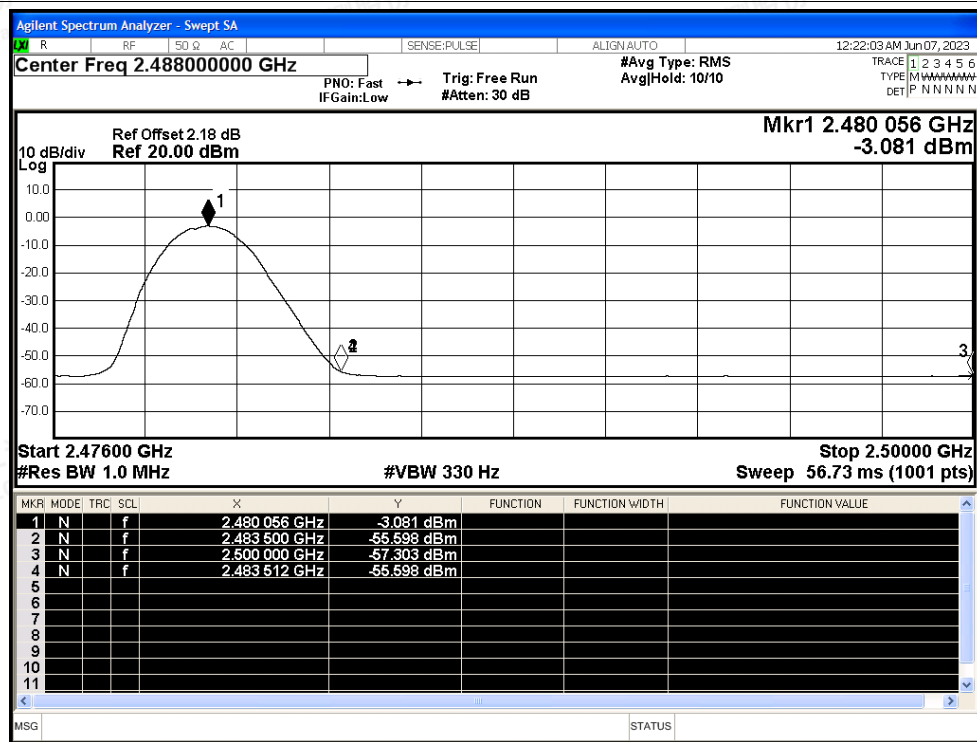




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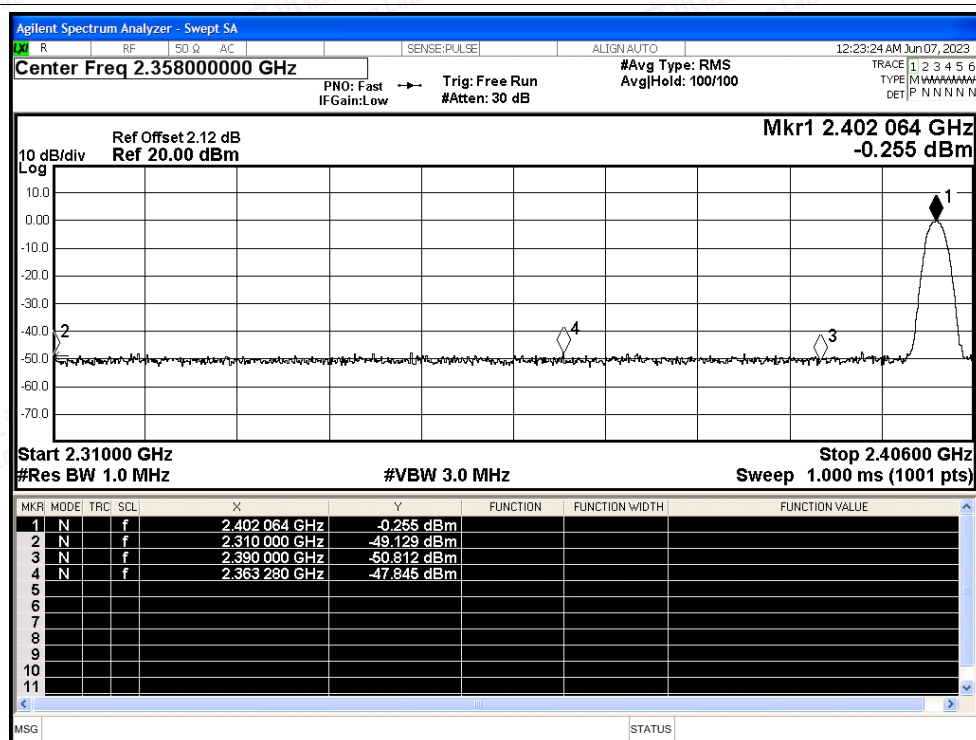


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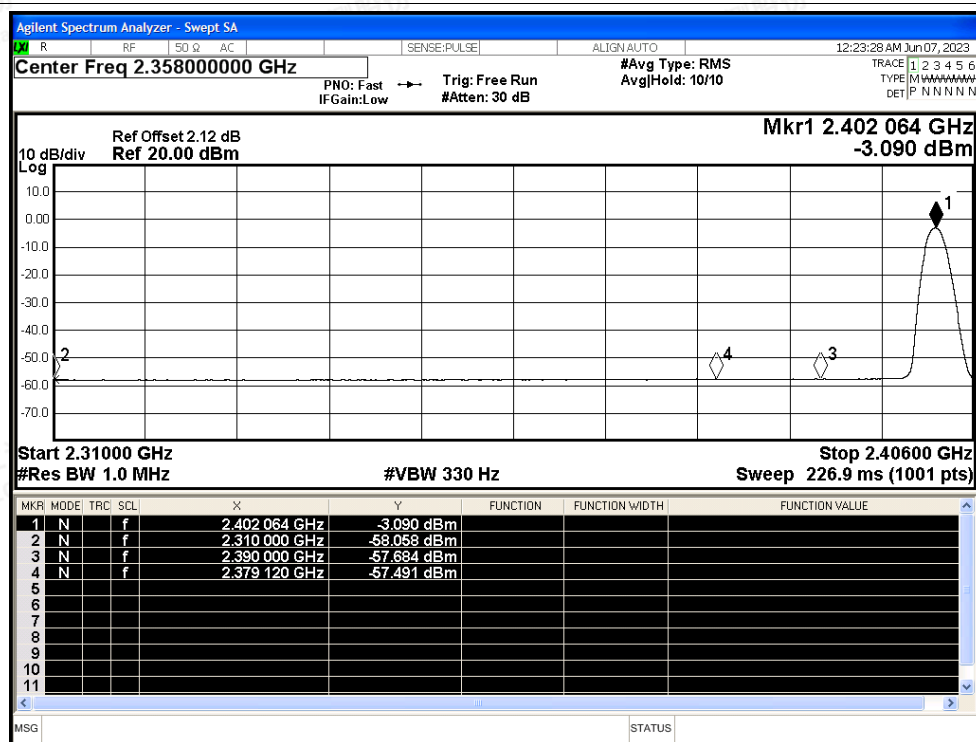




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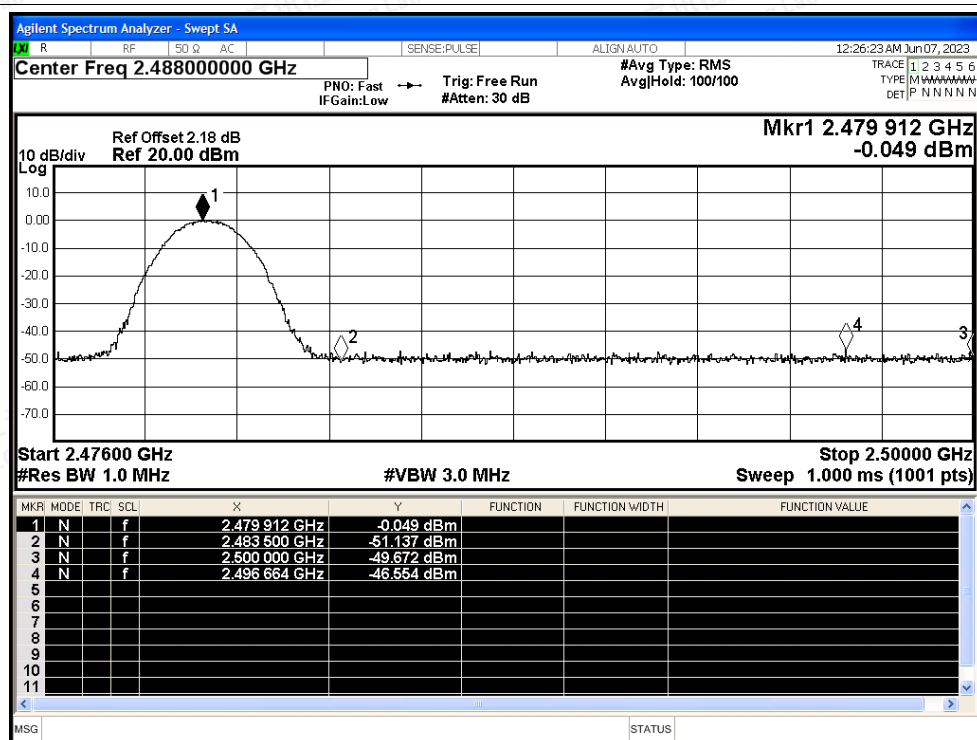


Restrict Band NVNT 3-DH5 2402MHz Ant0 No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant0 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant0 No-Hopping Average

