



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: HOME THEATER PROJECTOR

Test Model: K2

Environmental Conditions

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



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A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant0	0.945	N/A	Pass
NVNT	1-DH5	2441	Ant0	1.006	N/A	Pass
NVNT	1-DH5	2480	Ant0	0.946	N/A	Pass
NVNT	2-DH5	2402	Ant0	1.282	N/A	Pass
NVNT	2-DH5	2441	Ant0	1.283	N/A	Pass
NVNT	2-DH5	2480	Ant0	1.311	N/A	Pass
NVNT	3-DH5	2402	Ant0	1.292	N/A	Pass
NVNT	3-DH5	2441	Ant0	1.297	N/A	Pass
NVNT	3-DH5	2480	Ant0	1.306	N/A	Pass



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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant0



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant0





-20dB Bandwidth NVNT 1-DH5 2480MHz Ant0

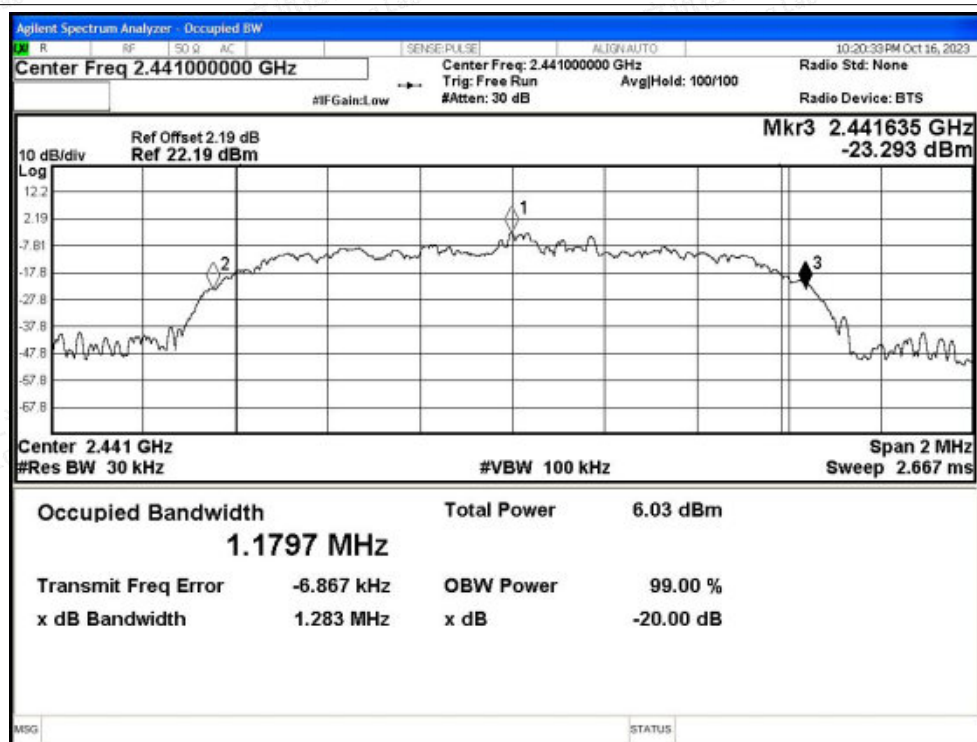


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant0

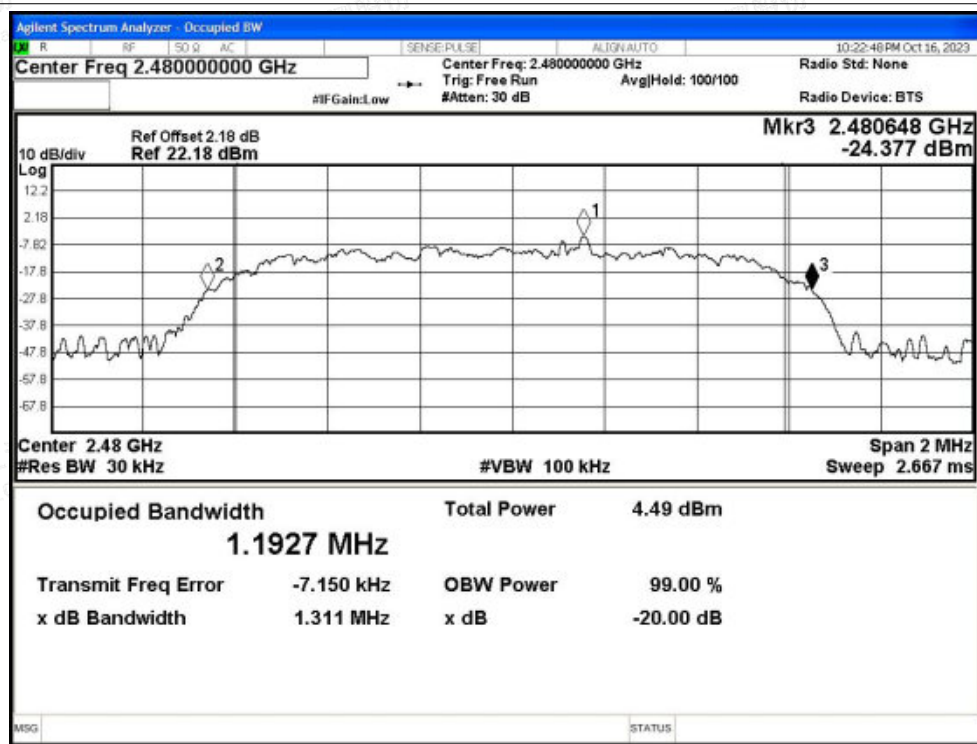




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant0

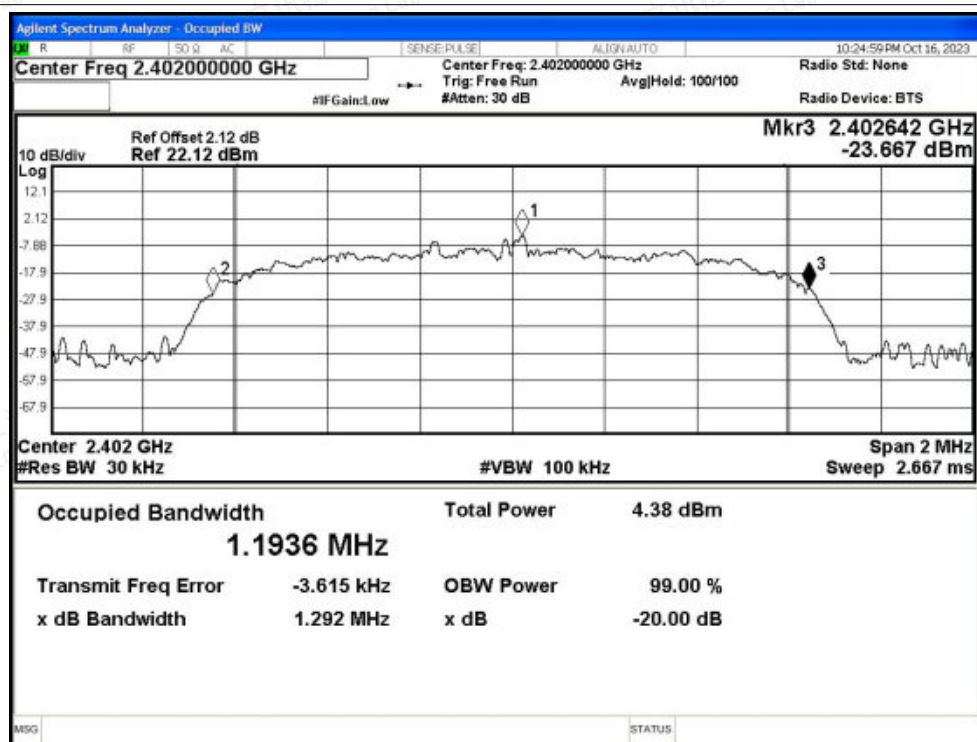


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant0

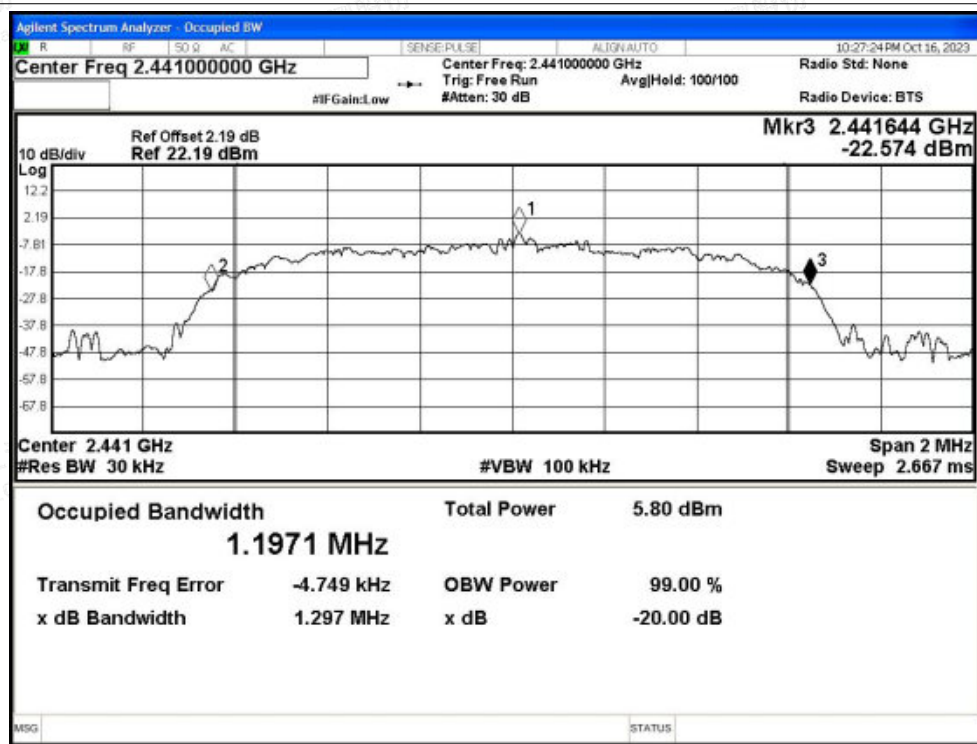




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant0

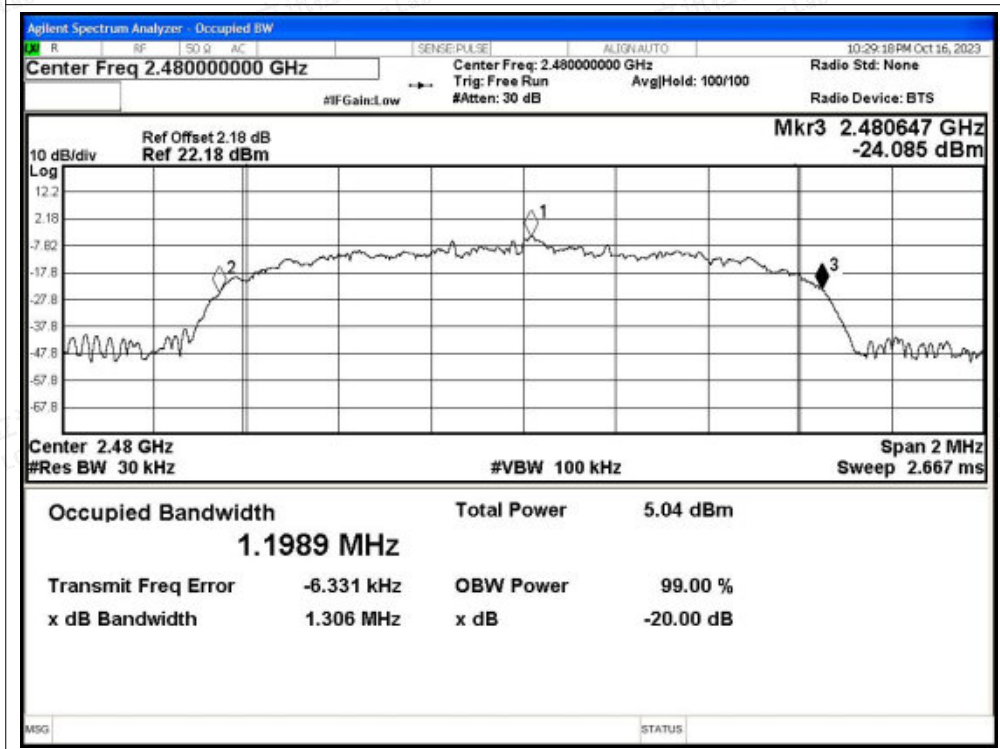


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant0





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant0





A.2 Maximum Peak Conducted Output Power

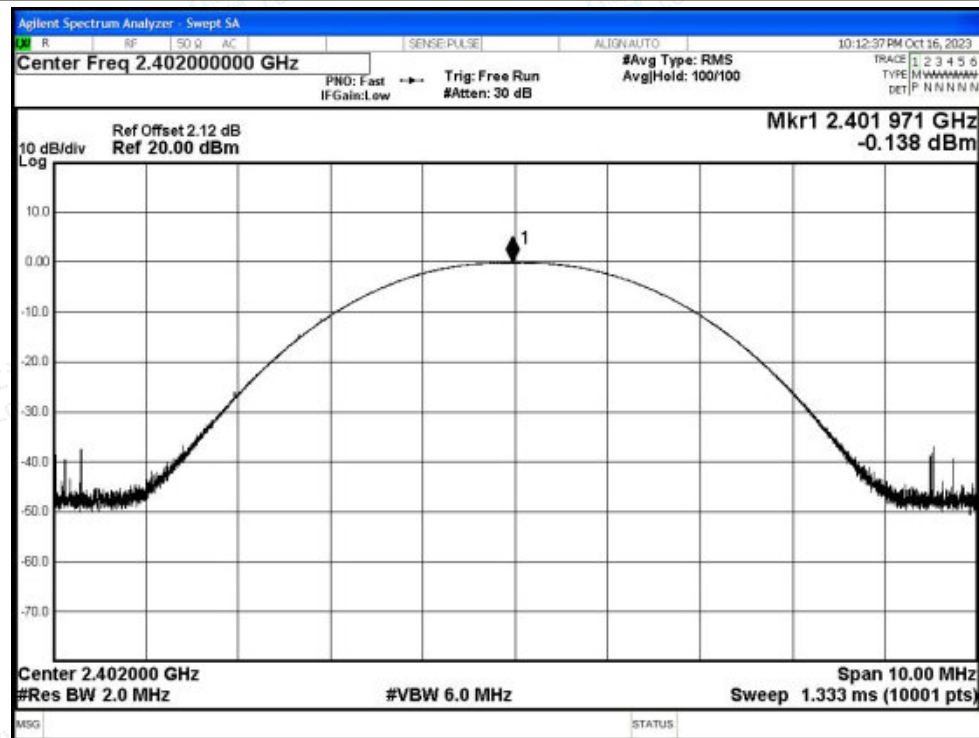
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant0	-0.14	21	Pass
NVNT	1-DH5	2441	Ant0	1.25	21	Pass
NVNT	1-DH5	2480	Ant0	-0.17	21	Pass
NVNT	2-DH5	2402	Ant0	0.04	21	Pass
NVNT	2-DH5	2441	Ant0	1.43	21	Pass
NVNT	2-DH5	2480	Ant0	0.61	21	Pass
NVNT	3-DH5	2402	Ant0	0.26	21	Pass
NVNT	3-DH5	2441	Ant0	1.67	21	Pass
NVNT	3-DH5	2480	Ant0	0.81	21	Pass



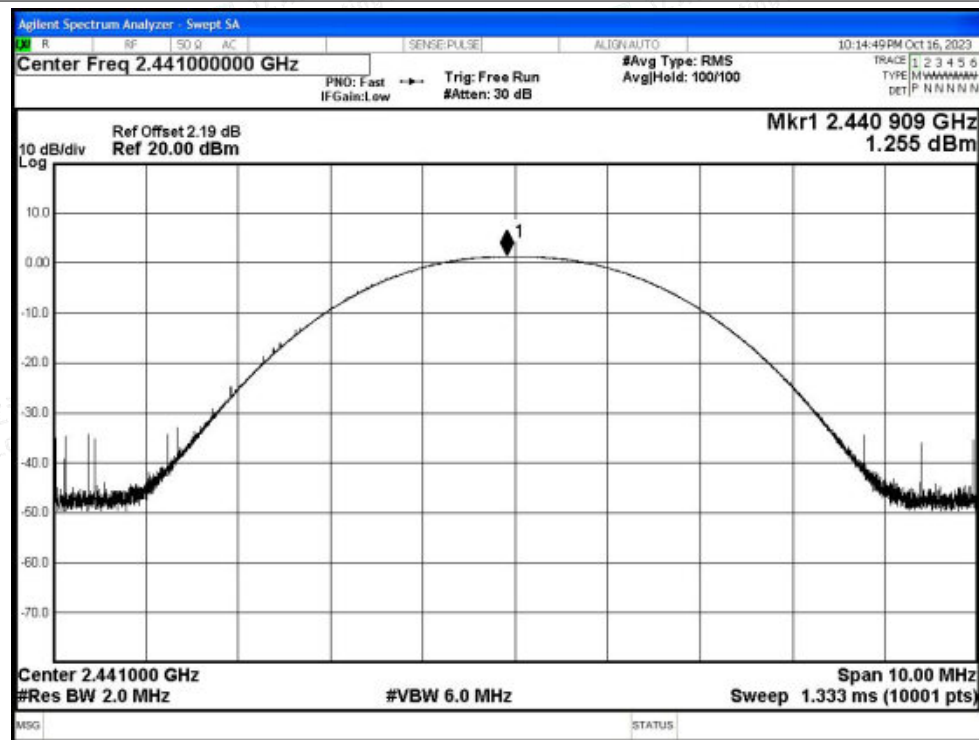


Test Graphs

Power NVNT 1-DH5 2402MHz Ant0

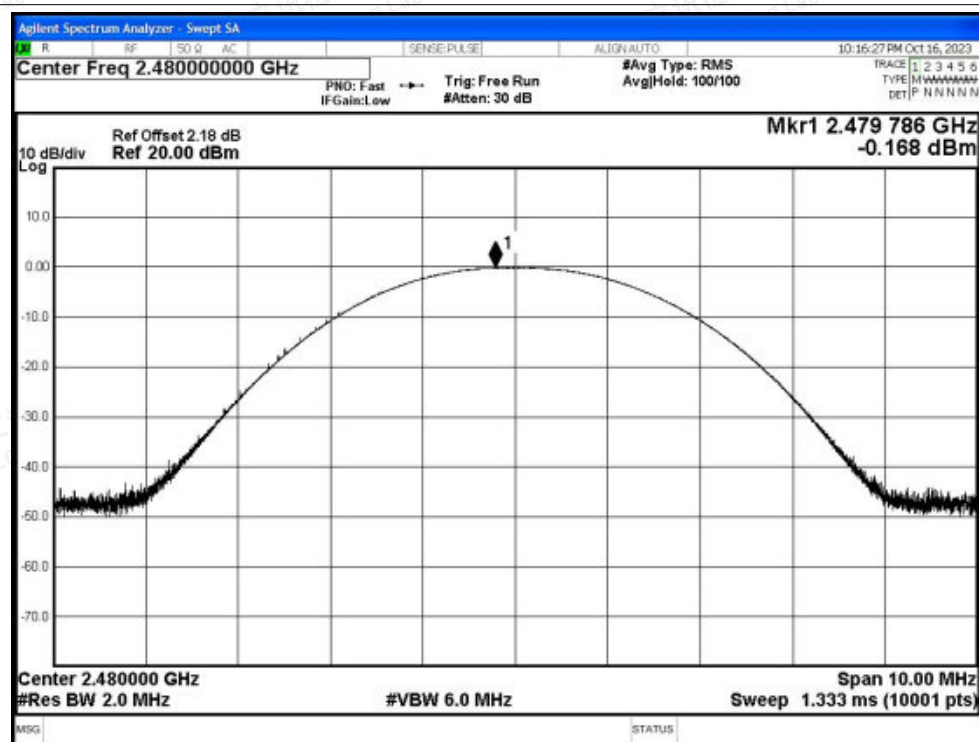


Power NVNT 1-DH5 2441MHz Ant0

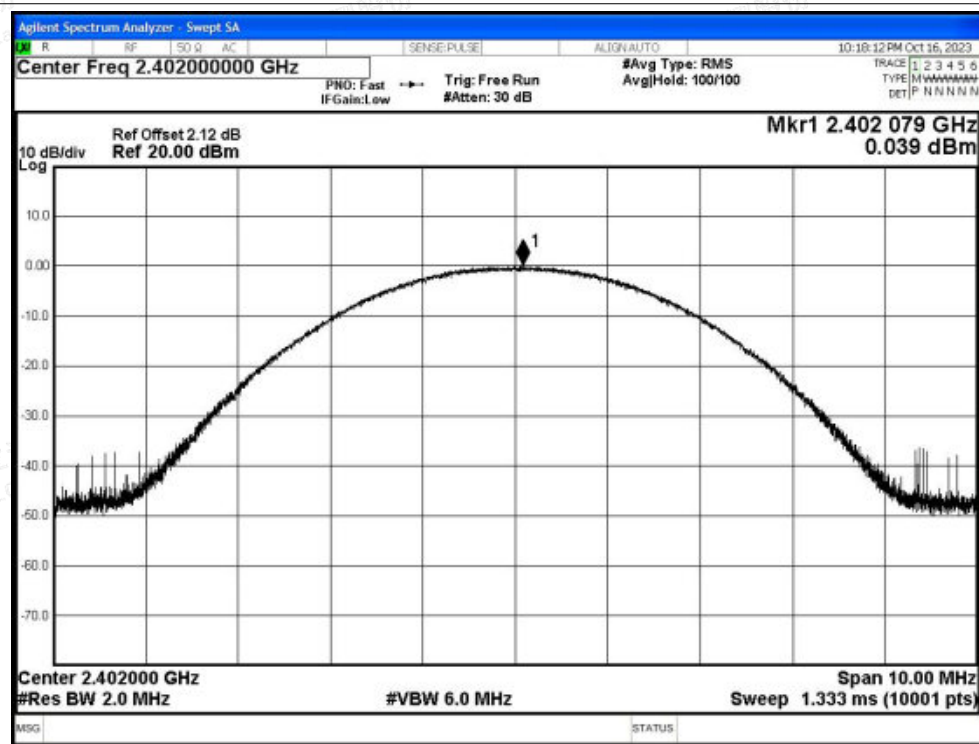




Power NVNT 1-DH5 2480MHz Ant0

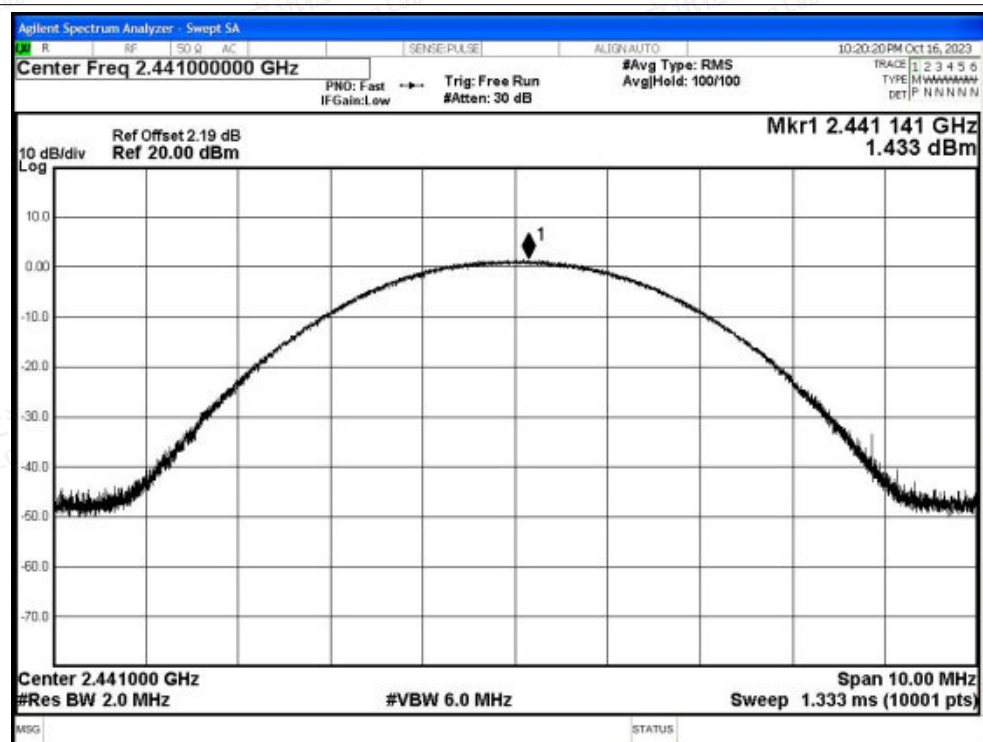


Power NVNT 2-DH5 2402MHz Ant0

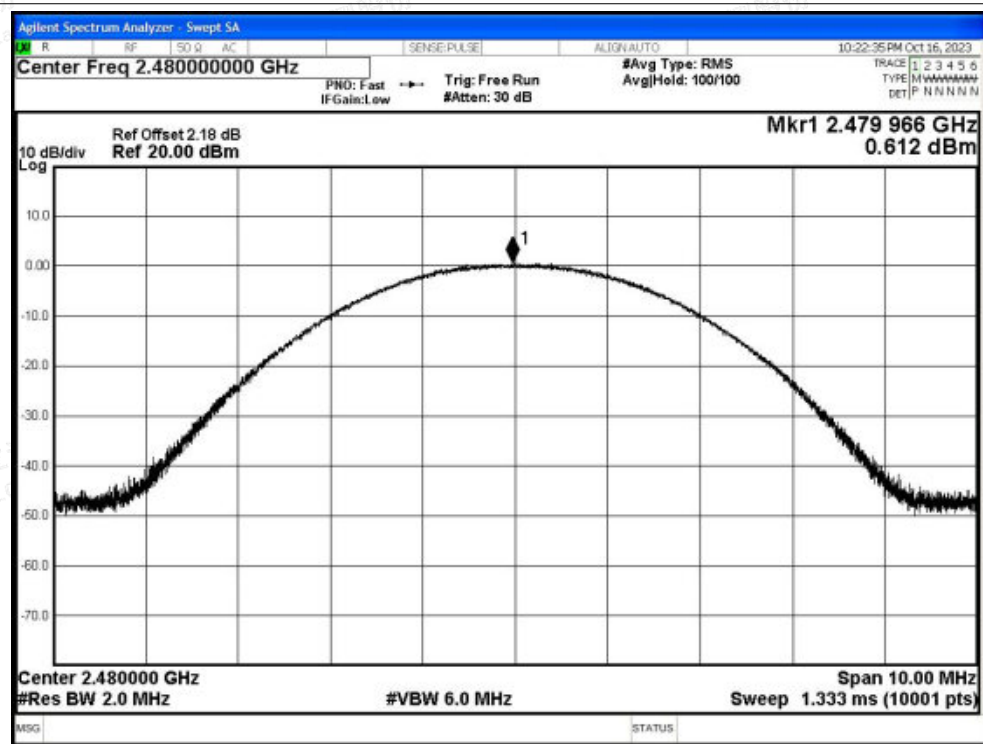




Power NVNT 2-DH5 2441MHz Ant0

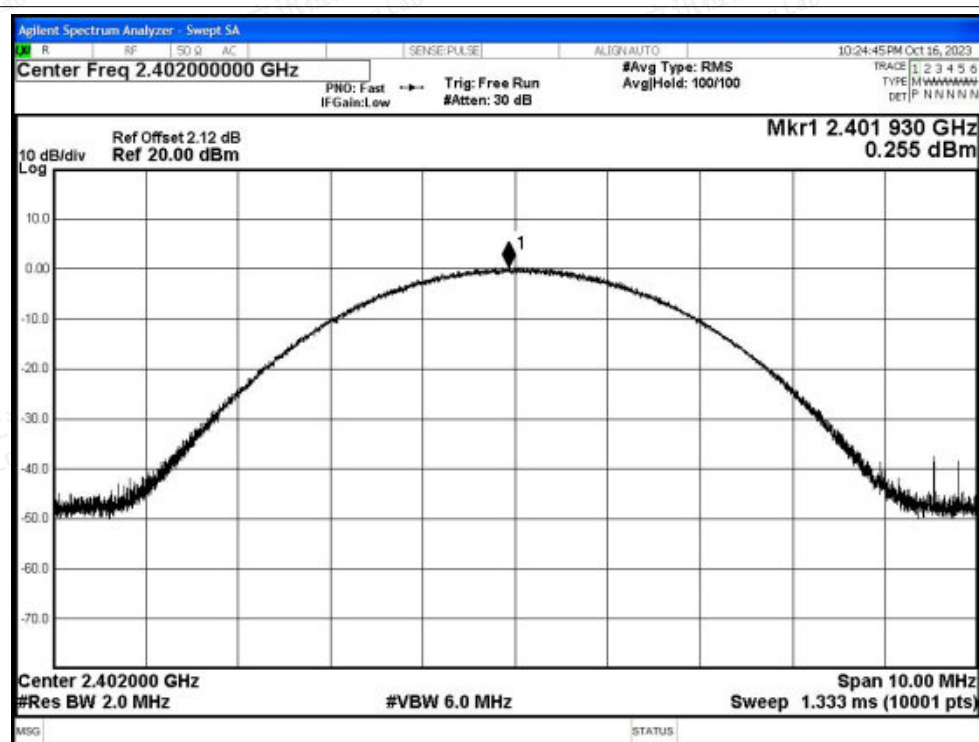


Power NVNT 2-DH5 2480MHz Ant0

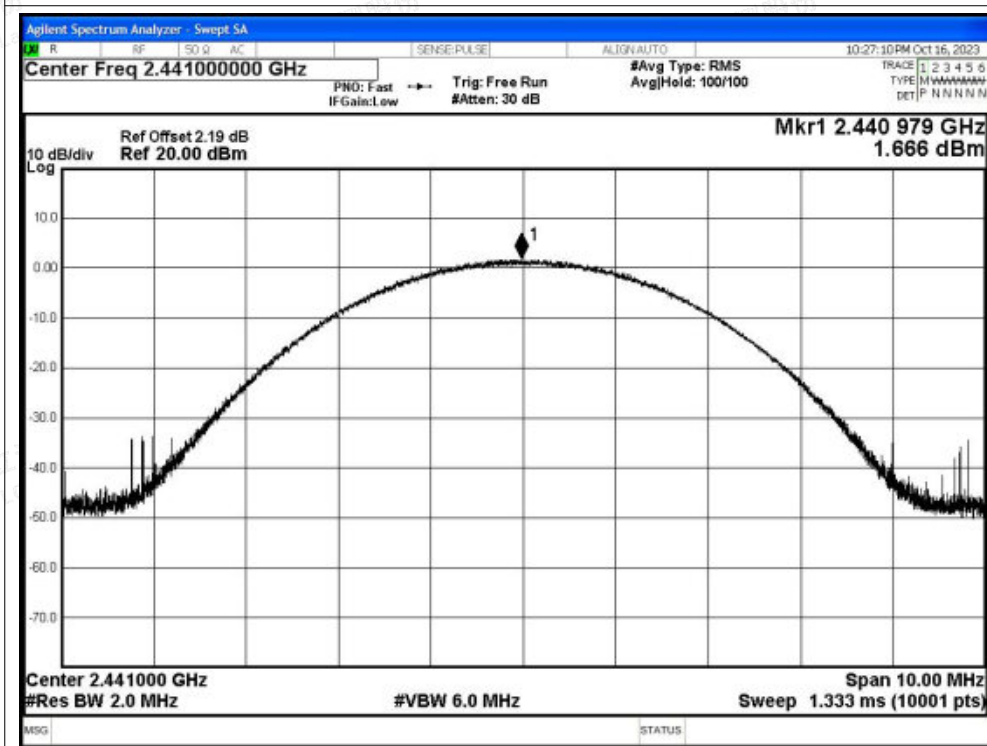




Power NVNT 3-DH5 2402MHz Ant0

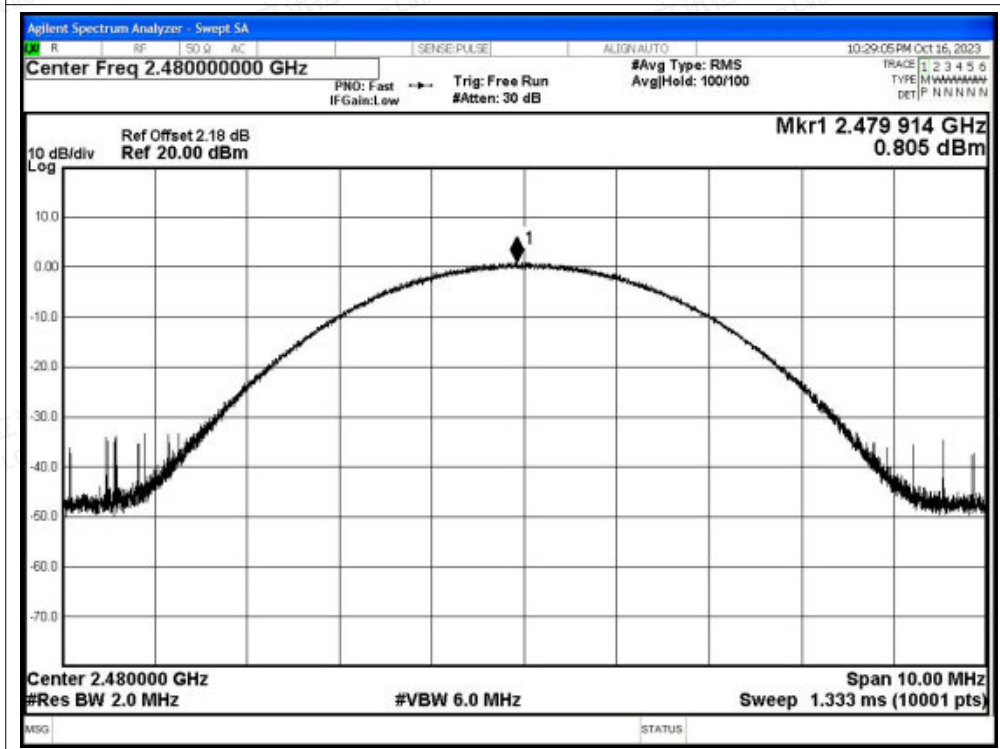


Power NVNT 3-DH5 2441MHz Ant0





Power NVNT 3-DH5 2480MHz Ant0





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant0	2401.83	2402.834	1.004	0.63	Pass
NVNT	2-DH5	Ant0	2402.014	2403.008	0.994	0.855	Pass
NVNT	3-DH5	Ant0	2402.004	2403.028	1.024	0.861	Pass

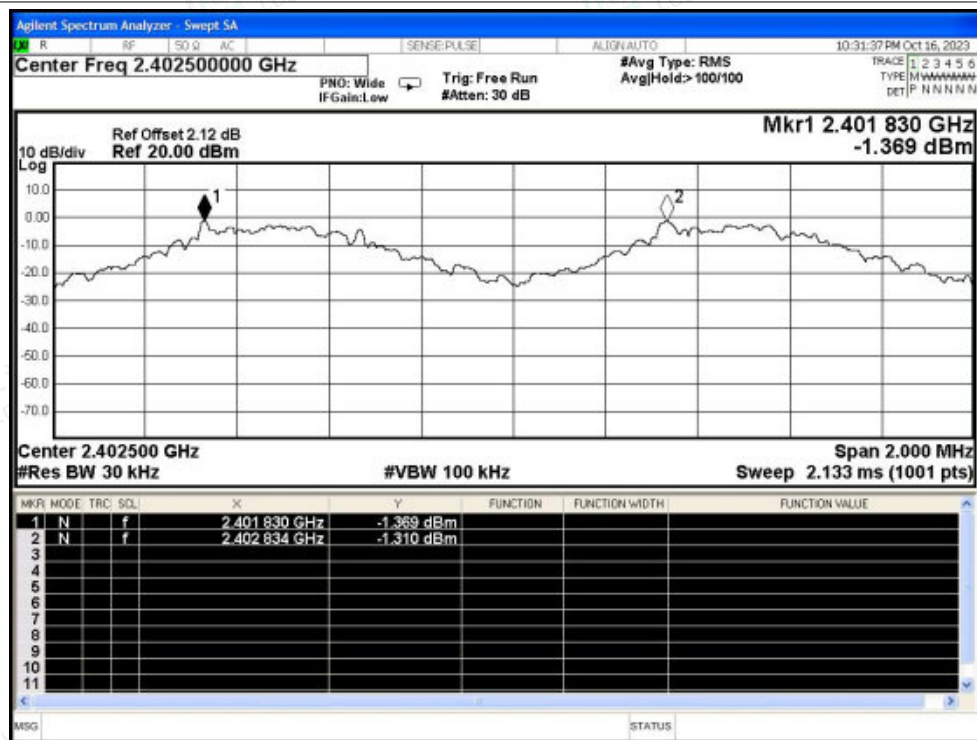


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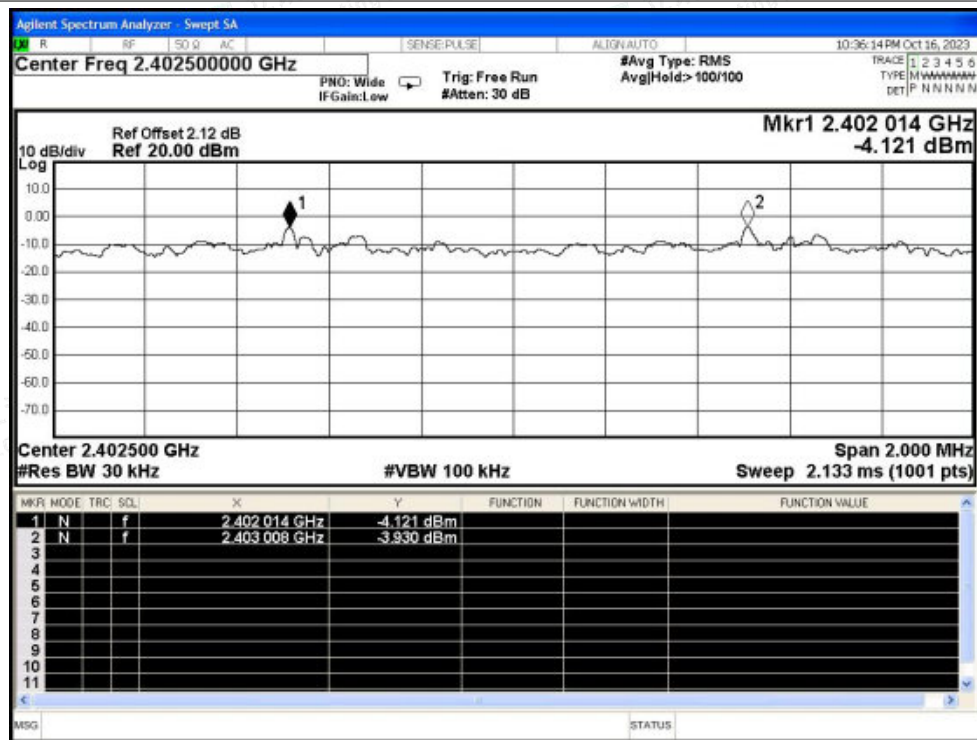


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant0

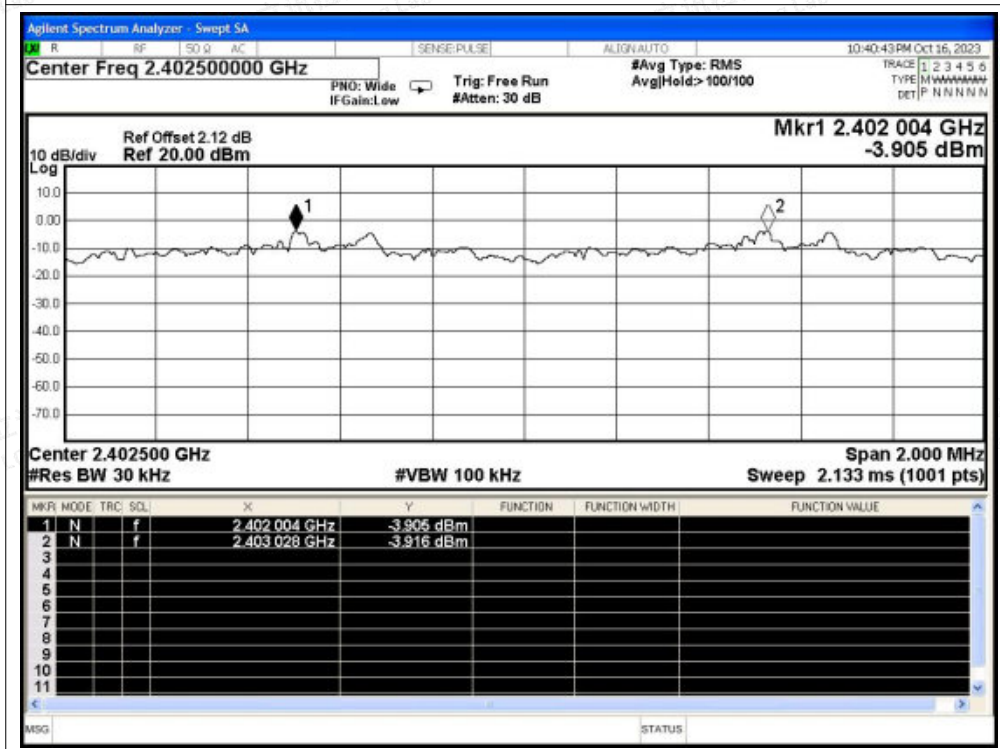


CFS NVNT 2-DH5 2402MHz Ant0





CFS NVNT 3-DH5 2402MHz Ant0





A.4 Dwell Time

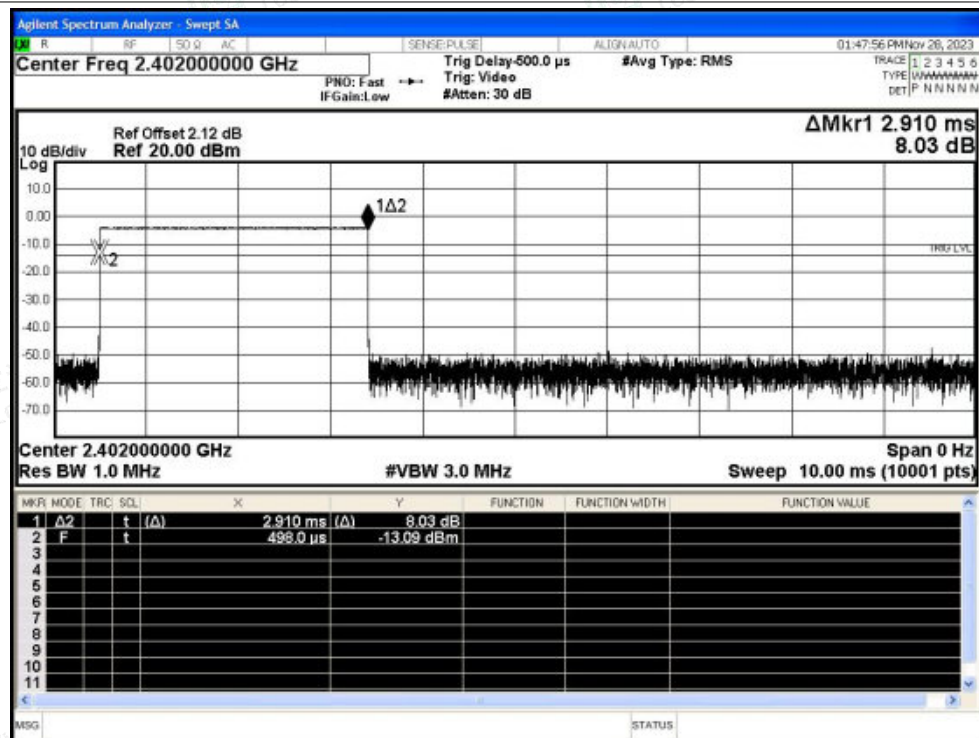
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant0	2.91	305.55	105	31600	400	Pass
NVNT	2-DH5	2402	Ant0	2.898	318.78	110	31600	400	Pass
NVNT	3-DH5	2402	Ant0	2.897	263.627	91	31600	400	Pass



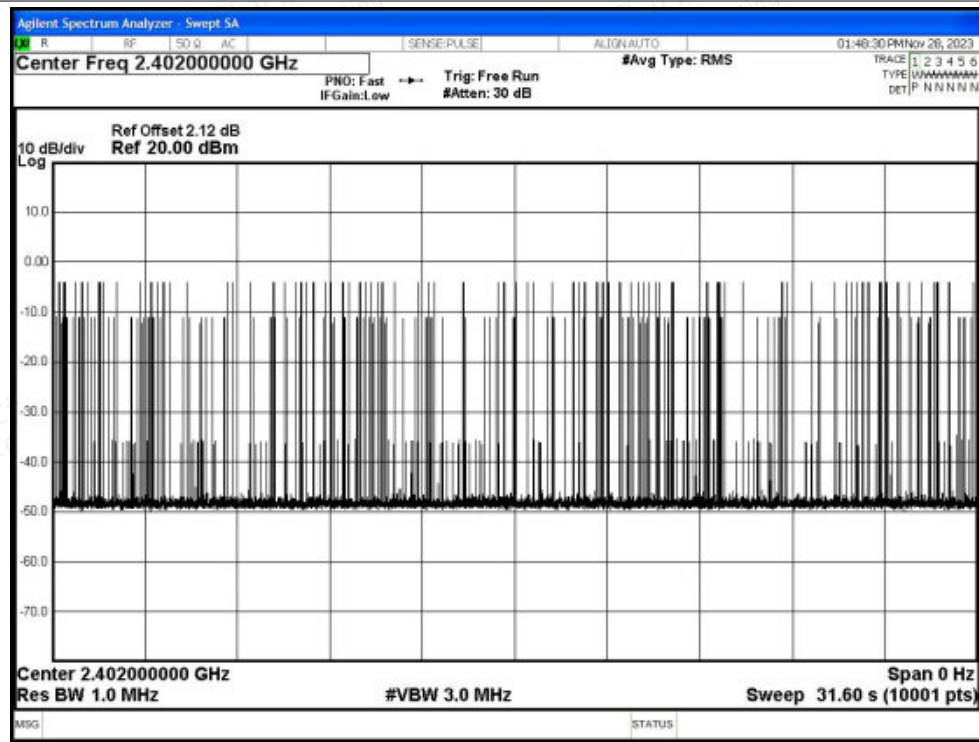


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant0 One Burst

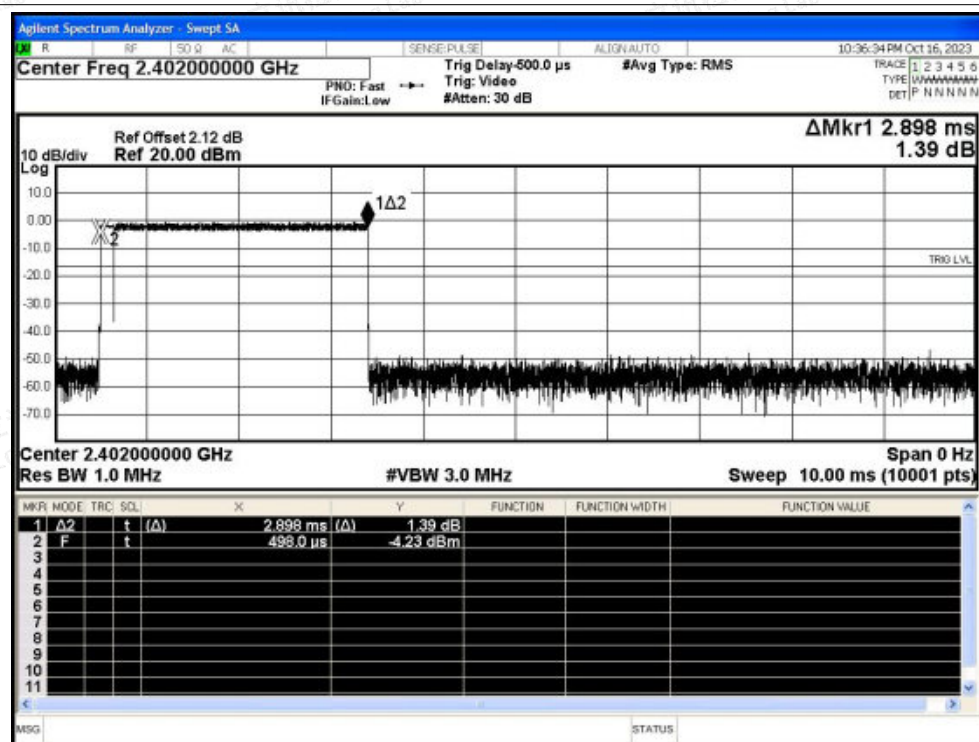


Dwell NVNT 1-DH5 2402MHz Ant0 Accumulated

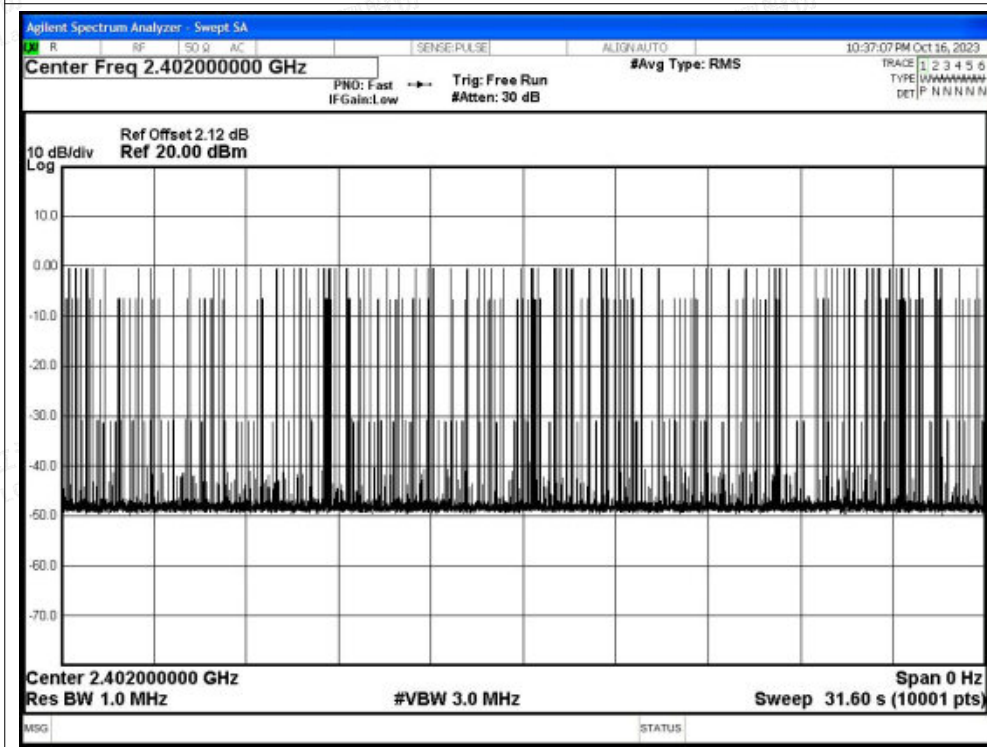




Dwell NVNT 2-DH5 2402MHz Ant0 One Burst

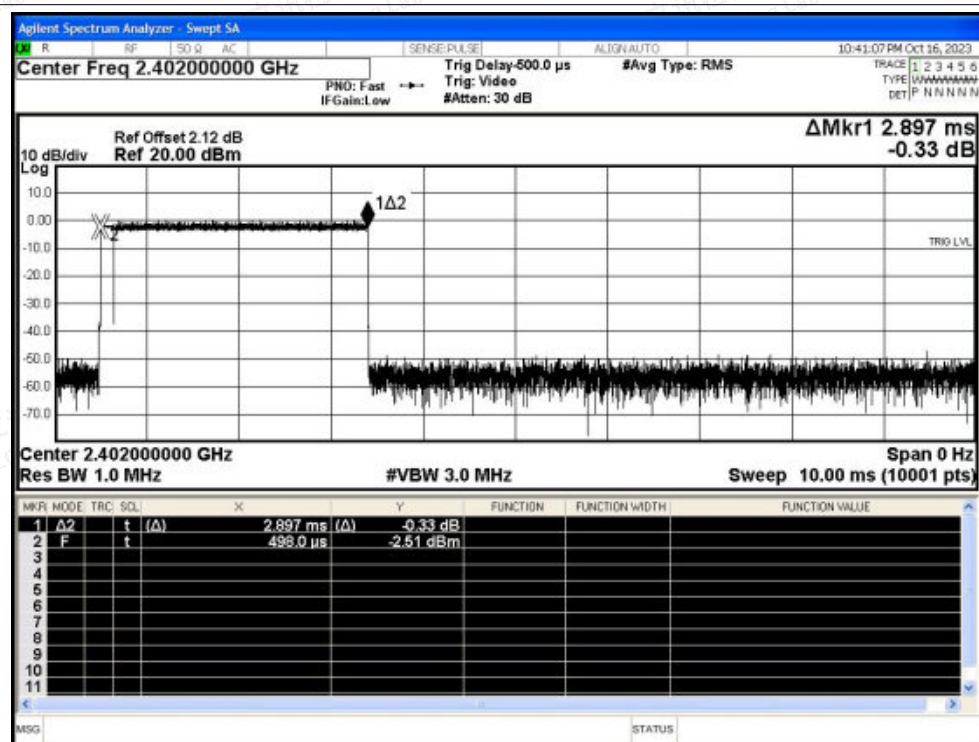


Dwell NVNT 2-DH5 2402MHz Ant0 Accumulated

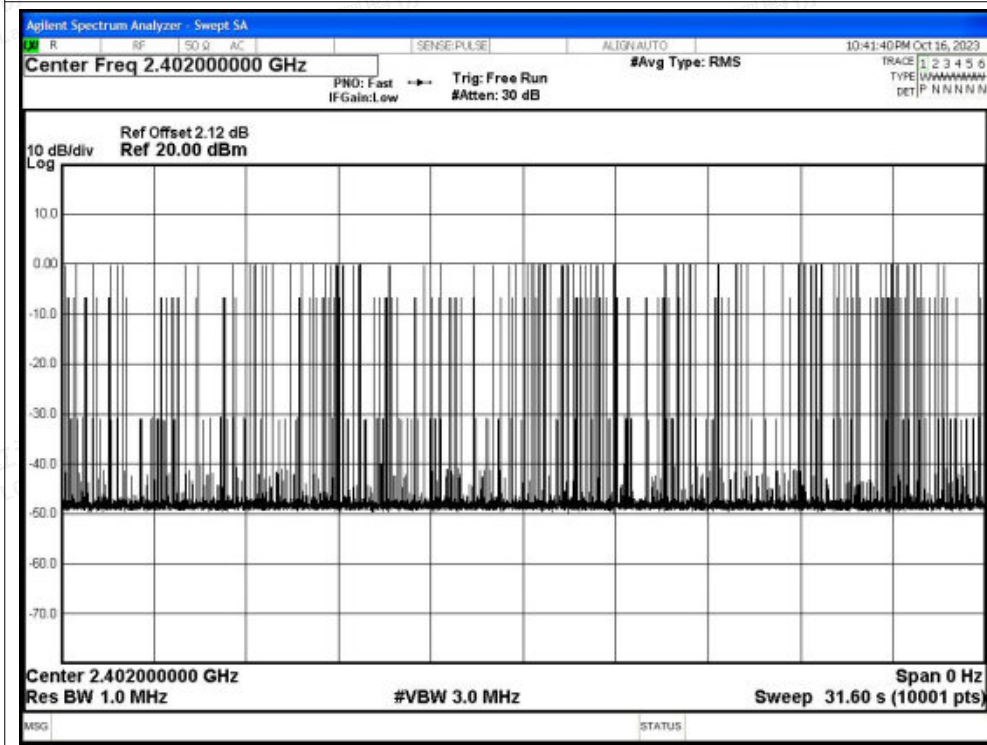




Dwell NVNT 3-DH5 2402MHz Ant0 One Burst



Dwell NVNT 3-DH5 2402MHz Ant0 Accumulated





A.5 Number of Hopping Channel

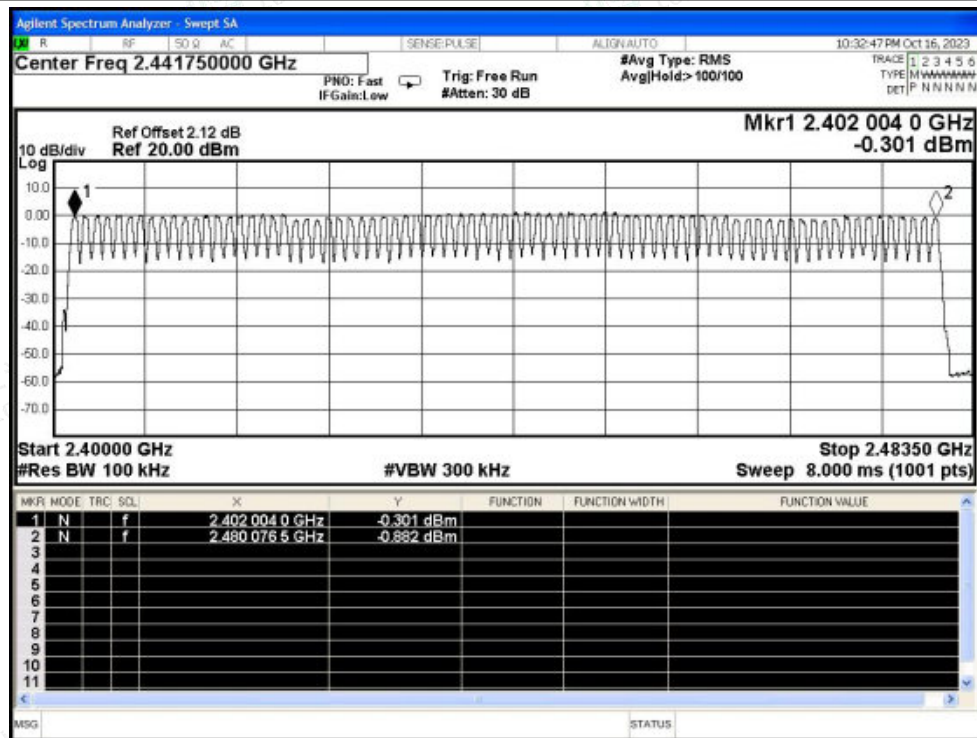
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant0	79	15	Pass
NVNT	2-DH5	Ant0	79	15	Pass
NVNT	3-DH5	Ant0	79	15	Pass



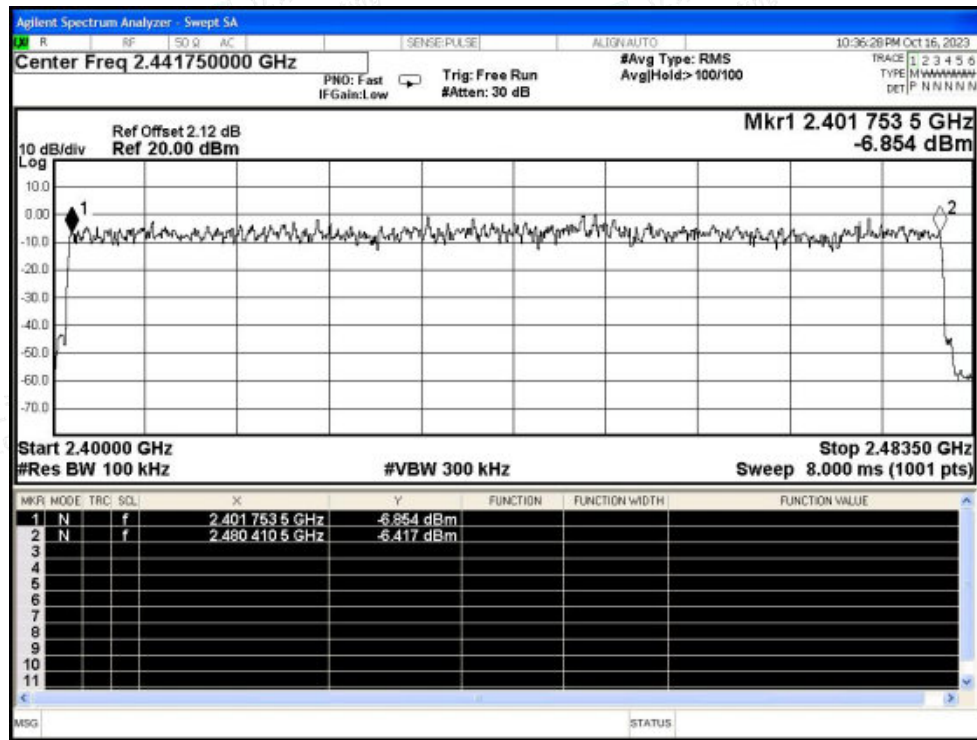


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant0

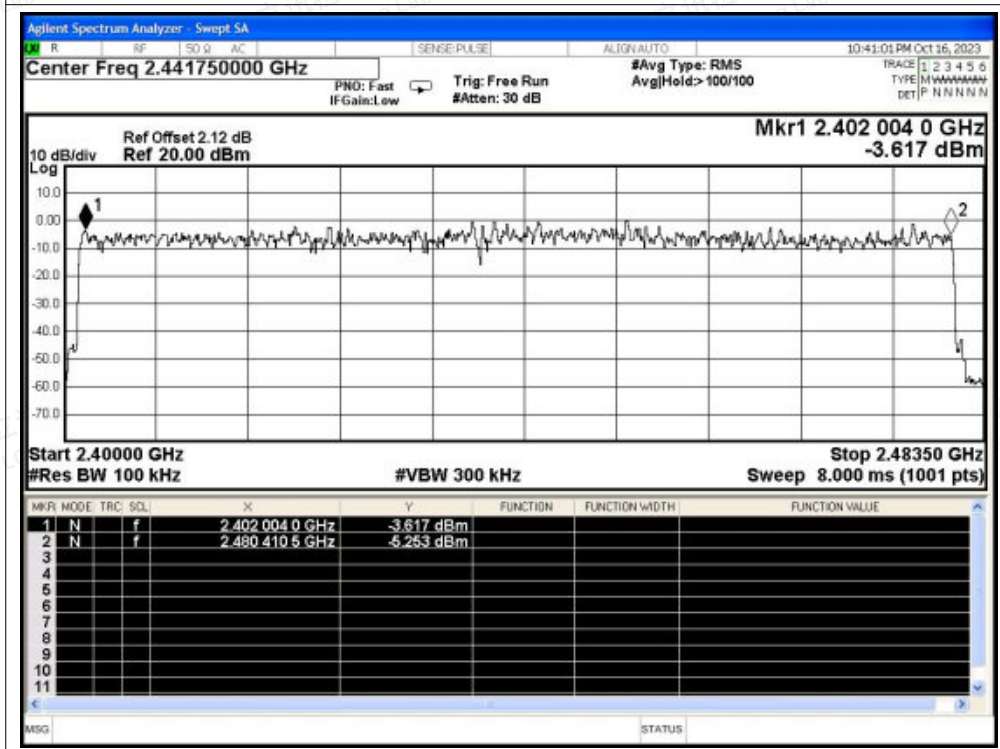


Hopping No. NVNT 2-DH5 2402MHz Ant0





Hopping No. NVNT 3-DH5 2402MHz Ant0



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A.6 Band Edge

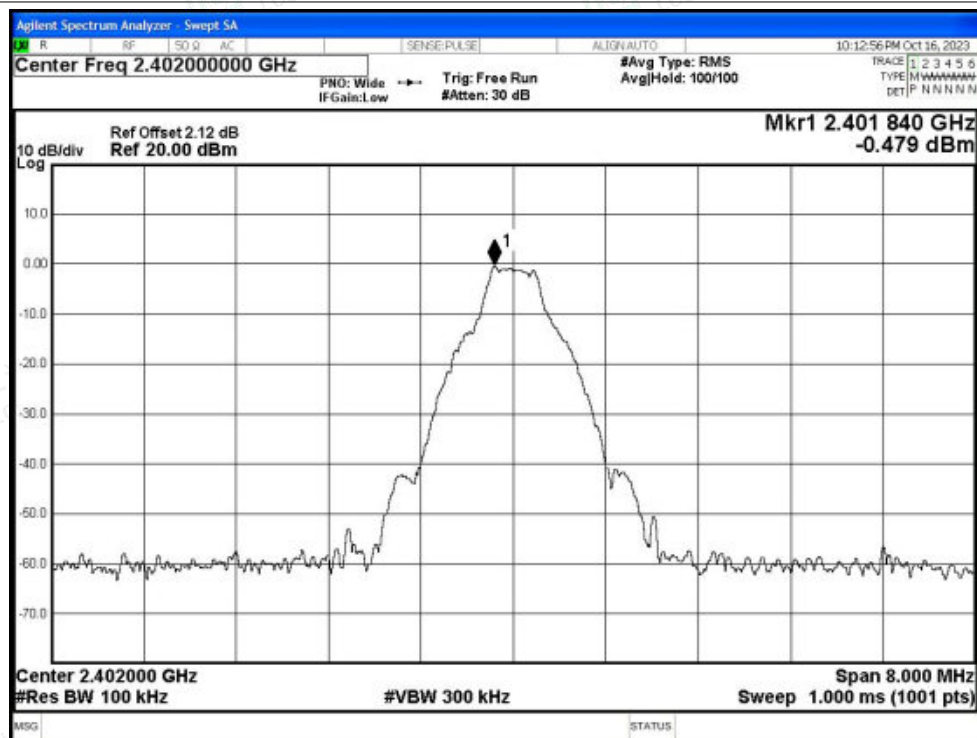
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	No-Hopping	-55.72	-20	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	-56.2	-20	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	-53.04	-20	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	-55.79	-20	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	-54.61	-20	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	-53.72	-20	Pass



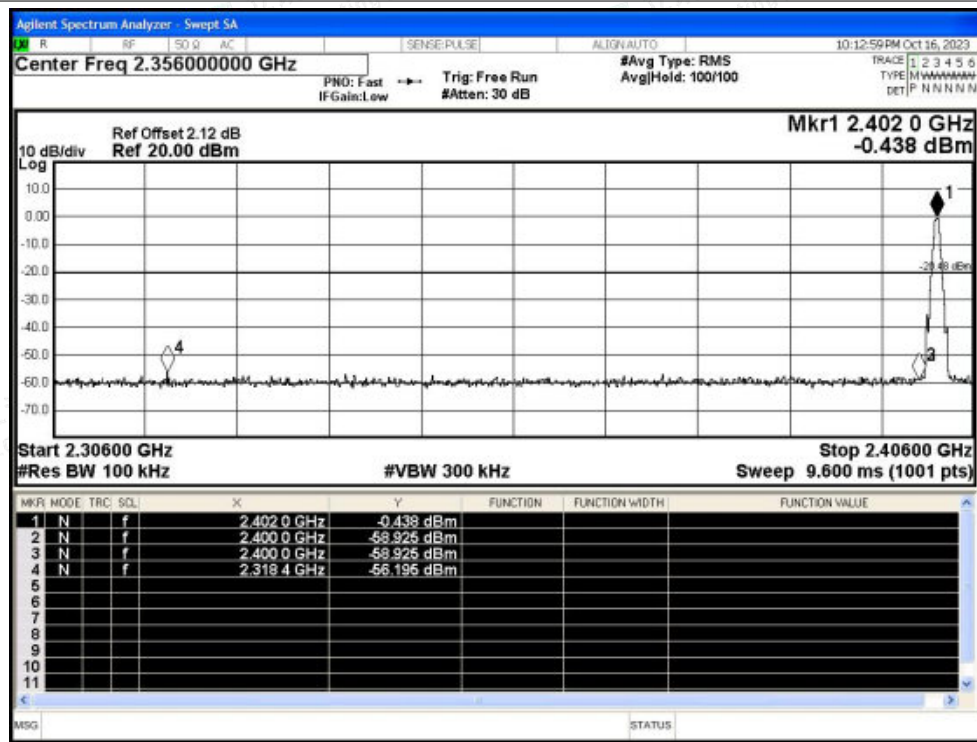


Test Graphs

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

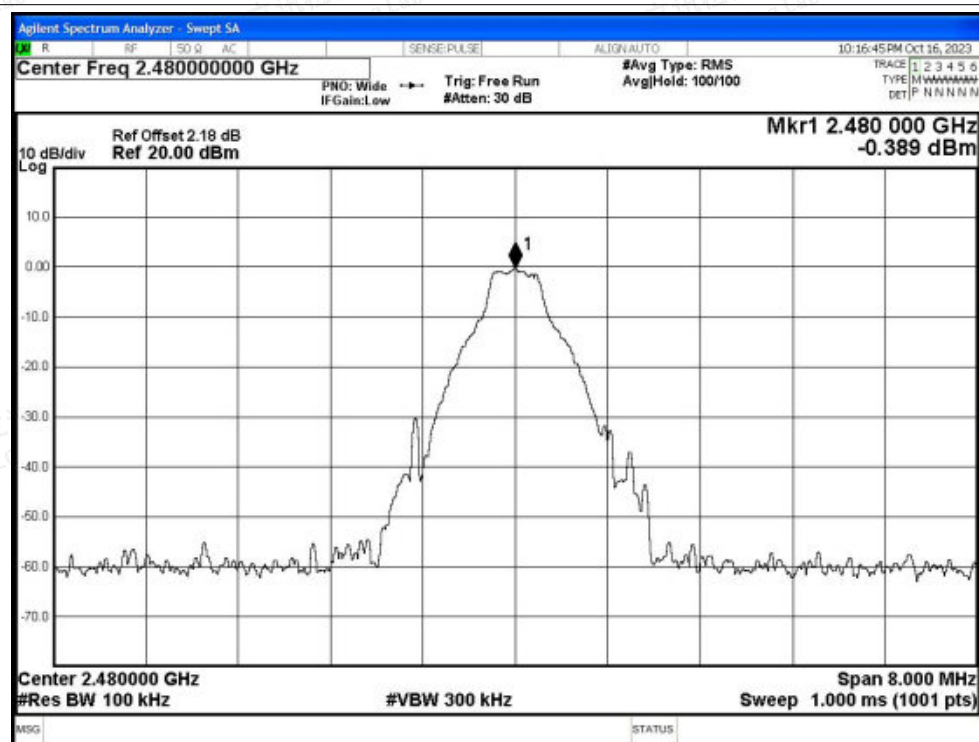


Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Emission

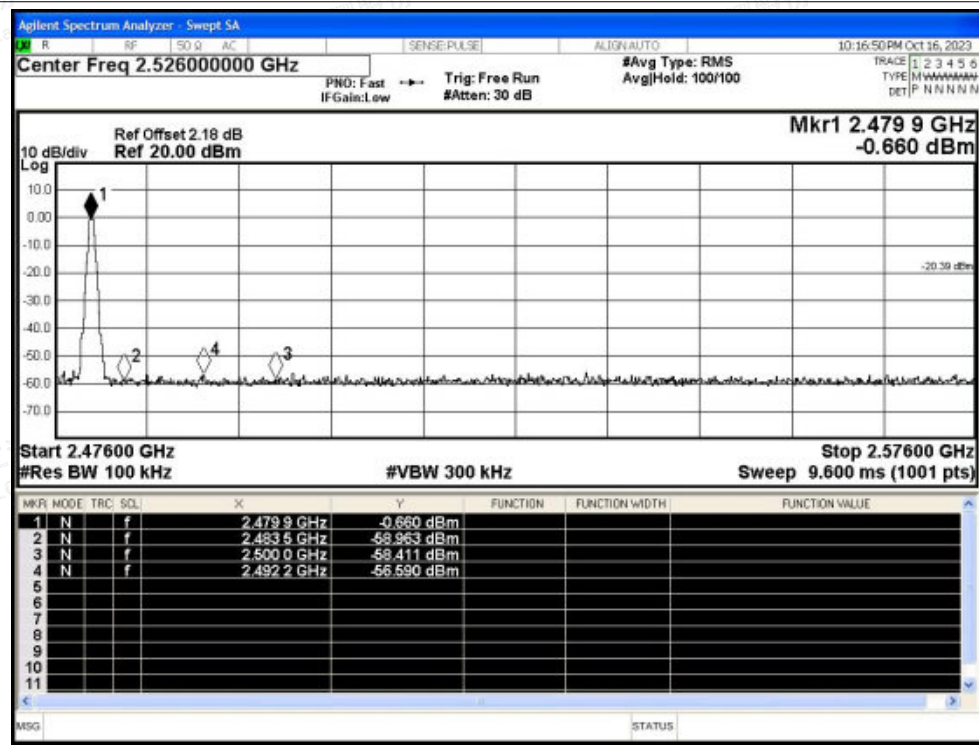




Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Ref

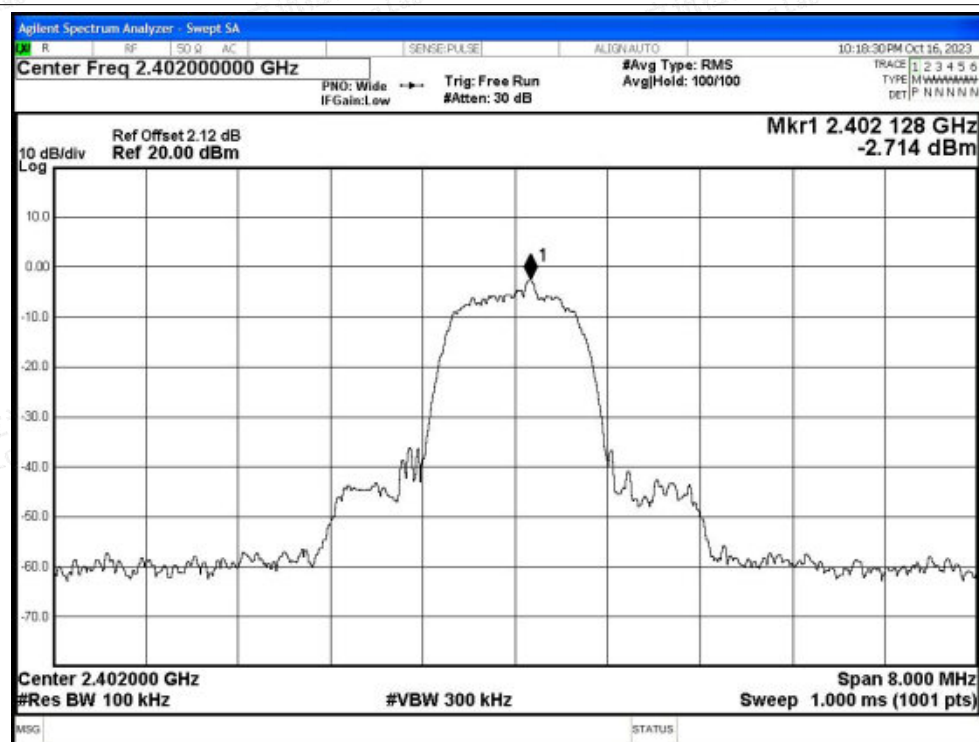


Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Emission

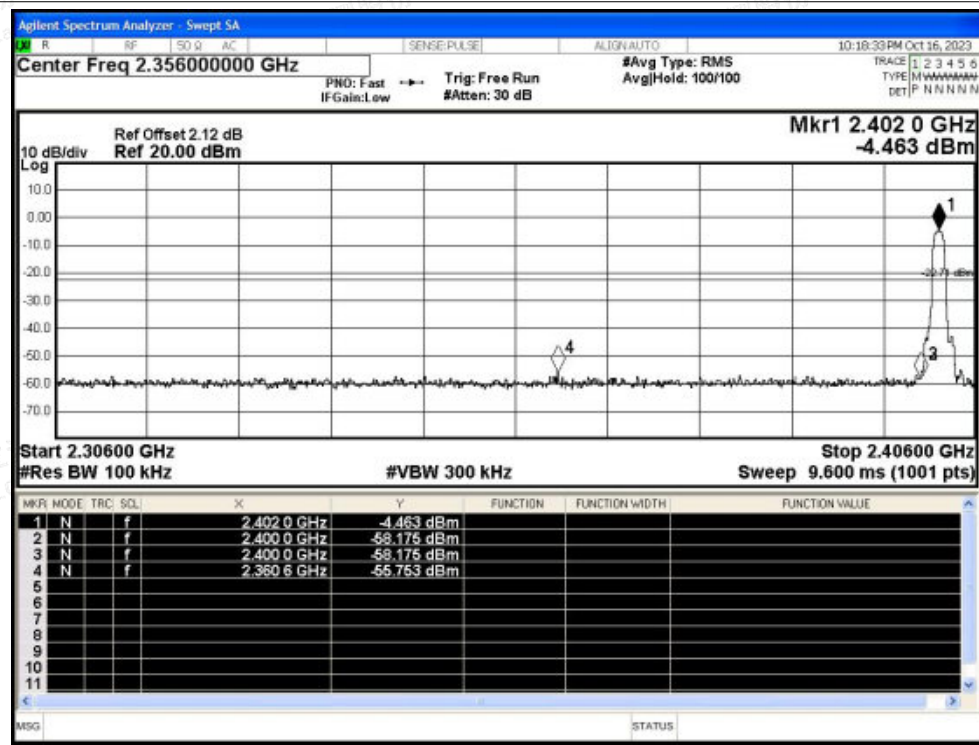




Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Ref

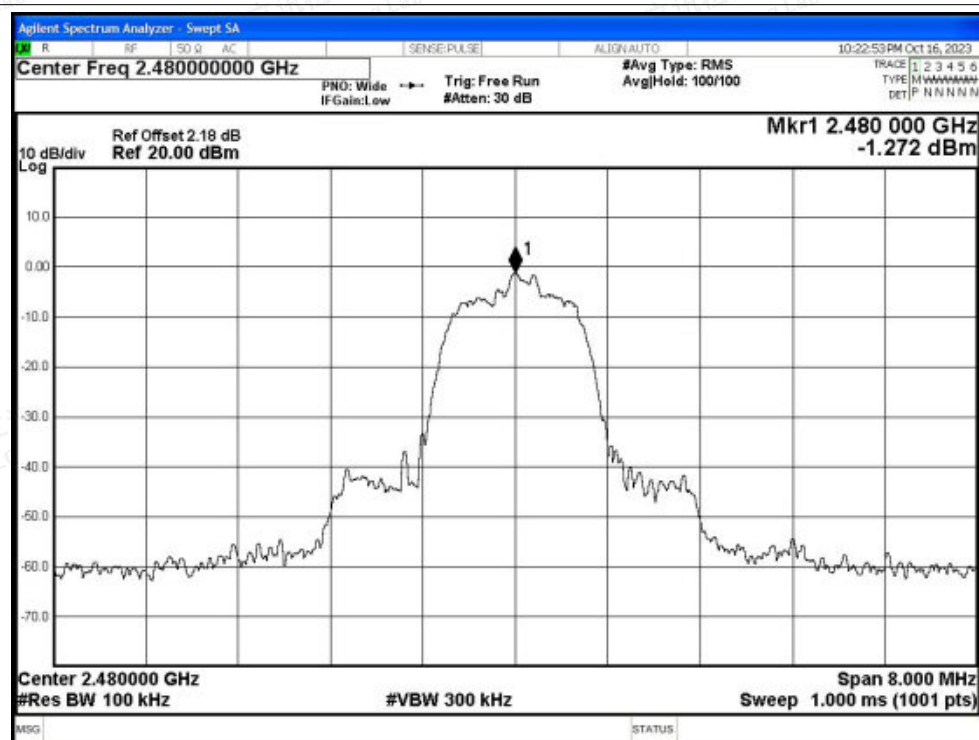


Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Emission

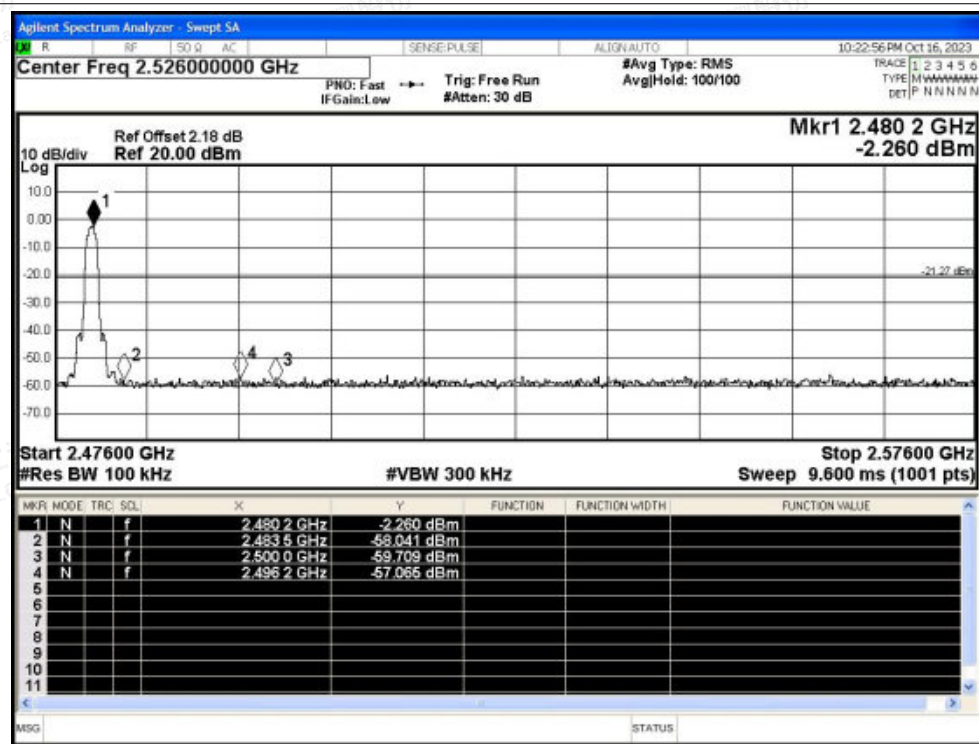




Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Ref

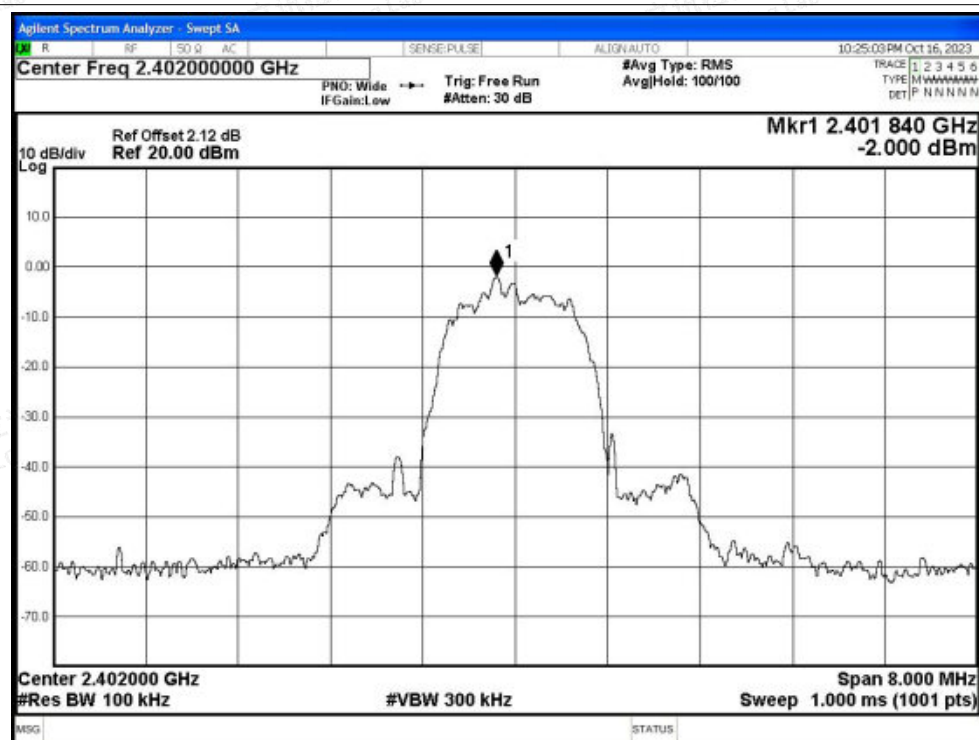


Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Emission

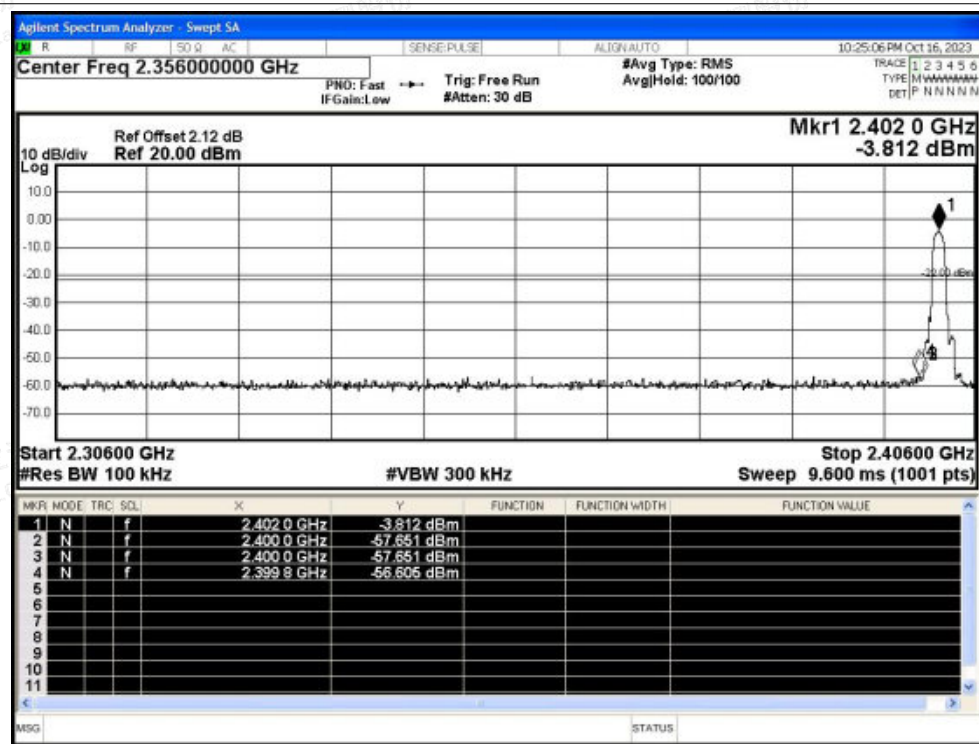




Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Ref

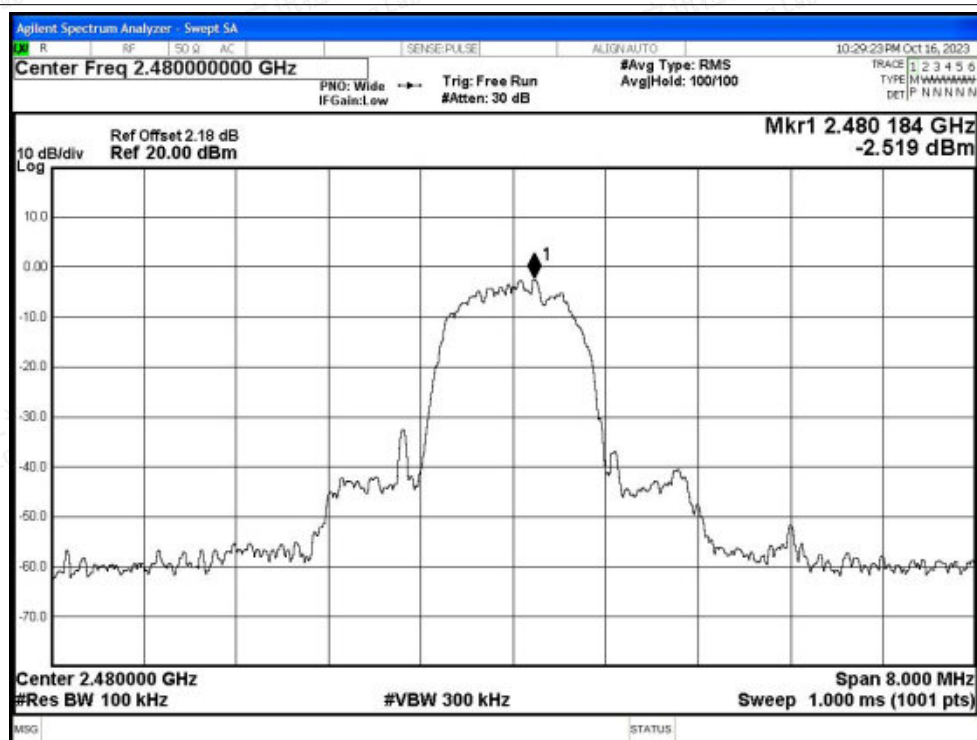


Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Emission

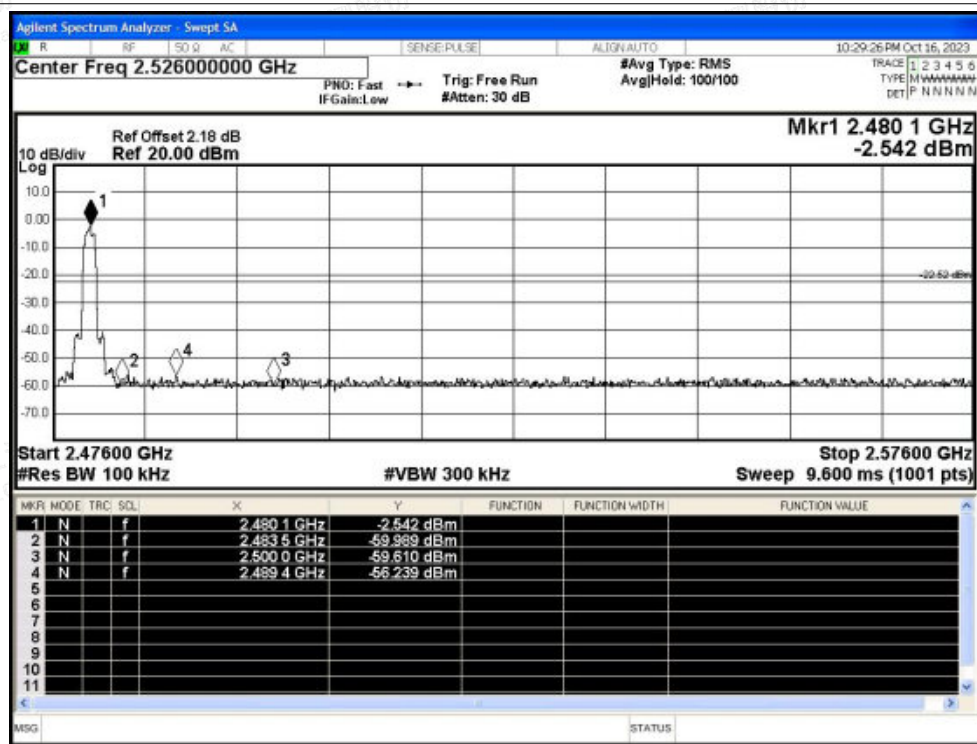




Band Edge NVNT 3-DH5 2480MHz Ant0 No-Hopping Ref



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	-56.05	-20	Pass
NVNT	1-DH5	2480	Ant0	Hopping	-55.78	-20	Pass
NVNT	2-DH5	2402	Ant0	Hopping	-54	-20	Pass
NVNT	2-DH5	2480	Ant0	Hopping	-55.02	-20	Pass
NVNT	3-DH5	2402	Ant0	Hopping	-54.27	-20	Pass
NVNT	3-DH5	2480	Ant0	Hopping	-54.43	-20	Pass

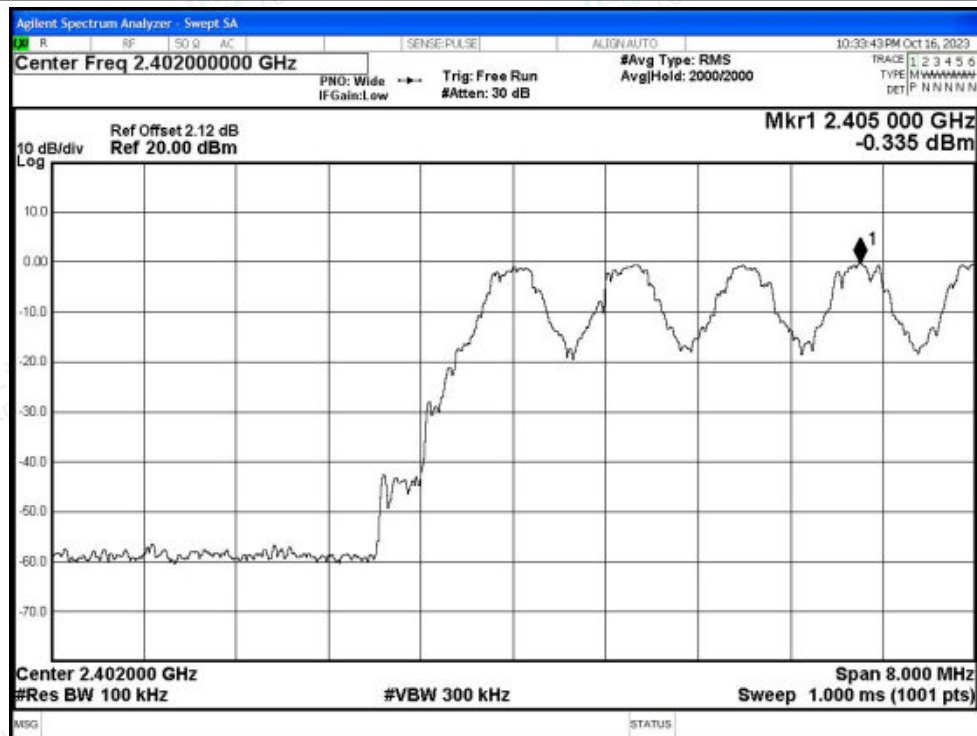


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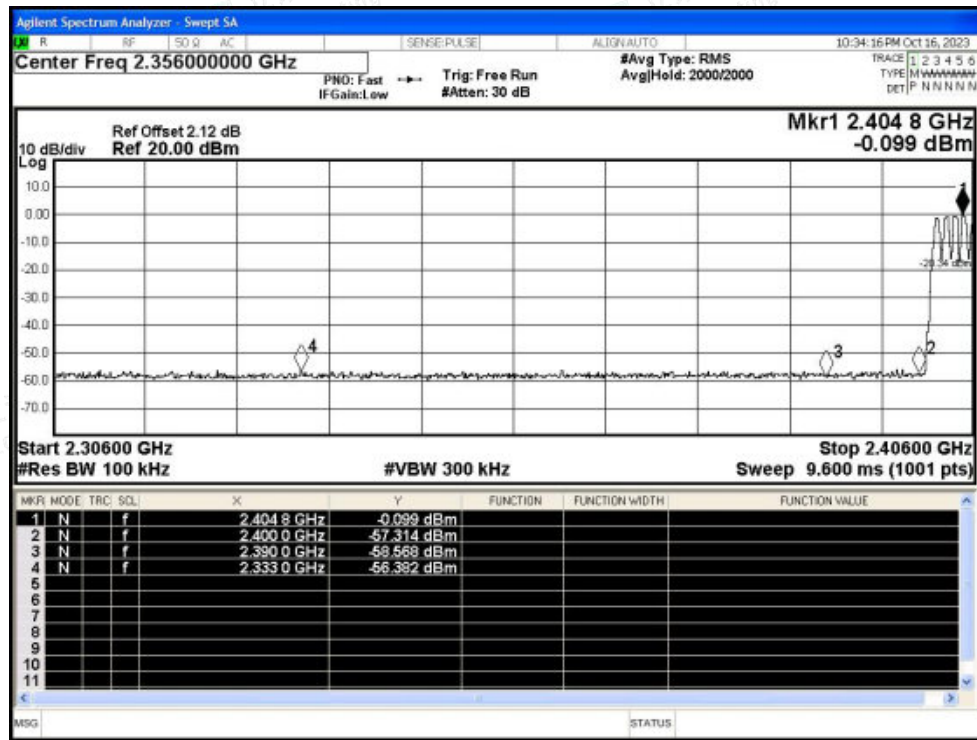


Test Graphs

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

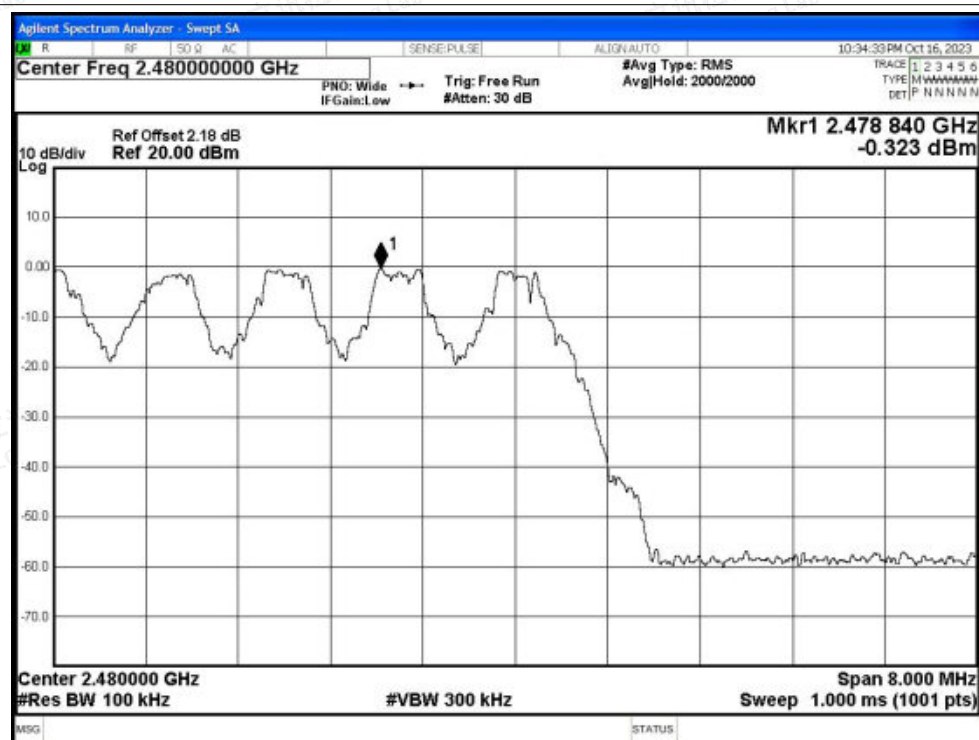


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Emission

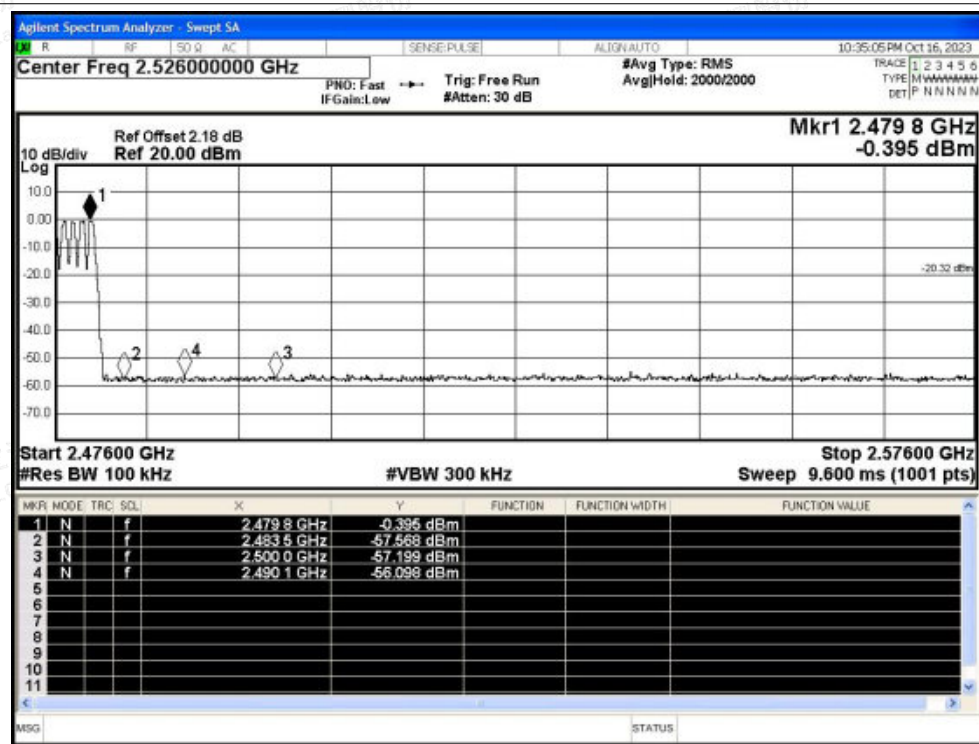




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant0 Hopping Ref



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

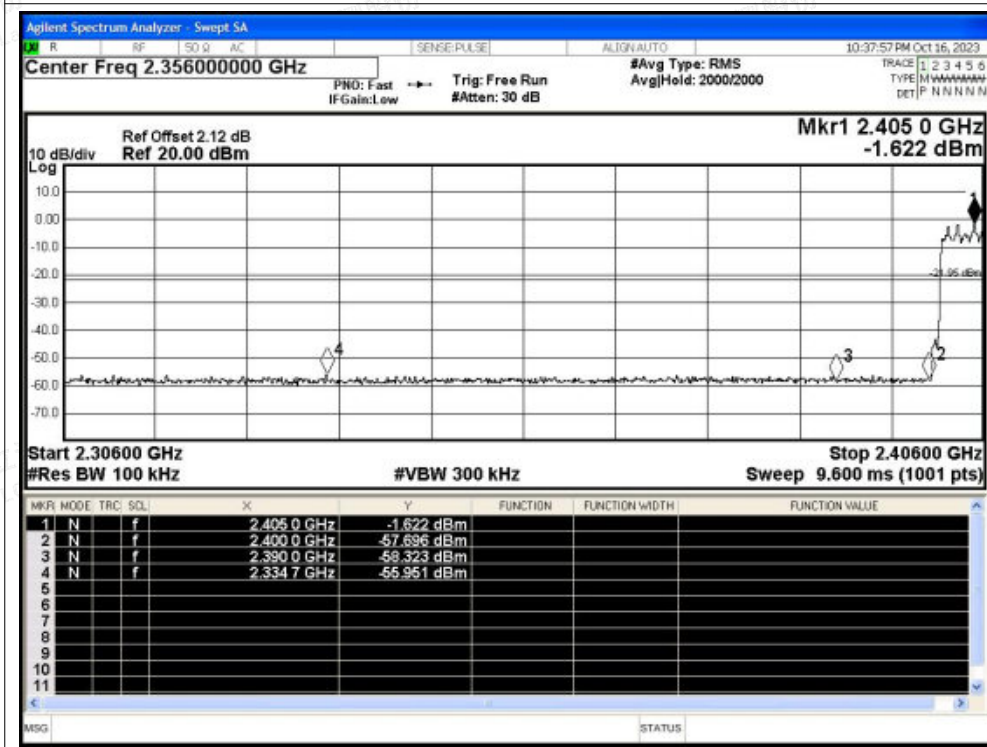




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant0 Hopping Ref



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



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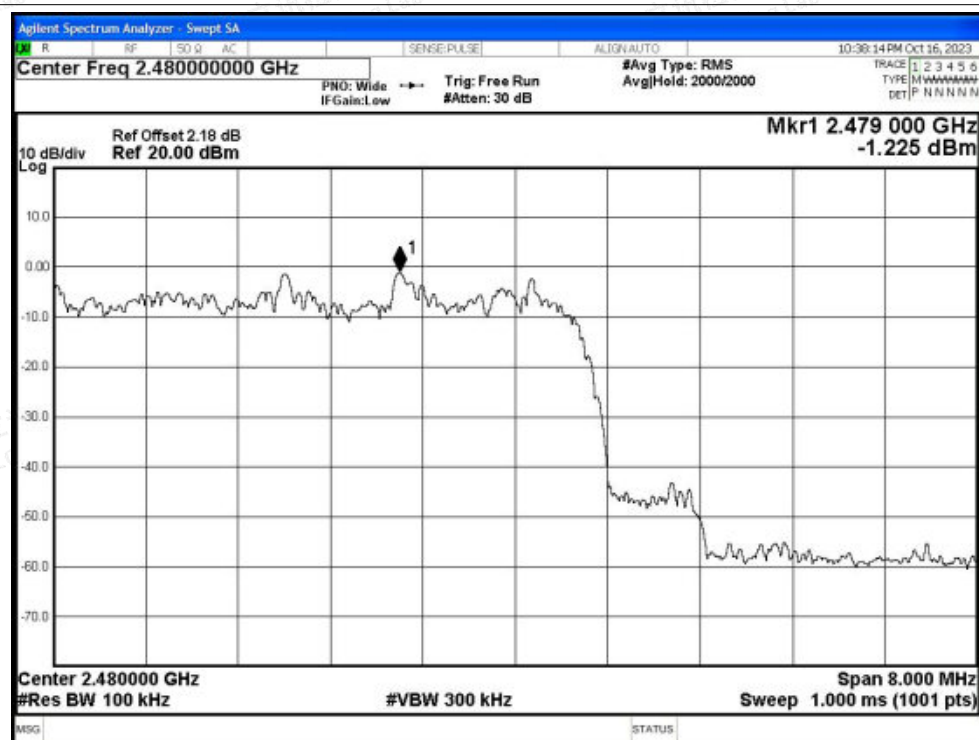
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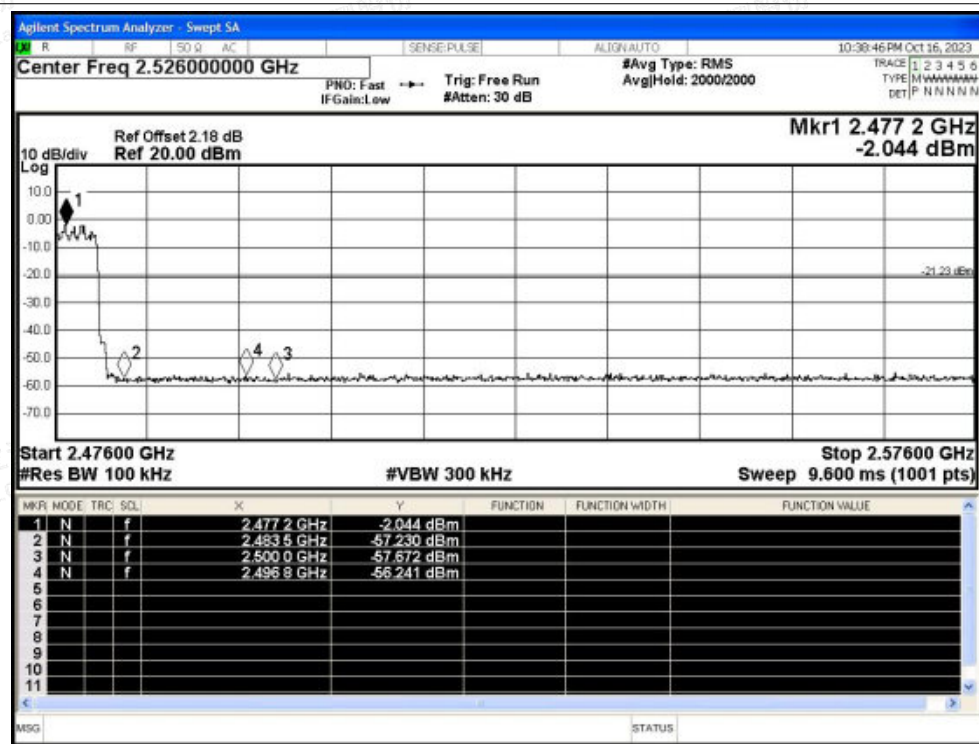
Scan code to check authenticity



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



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

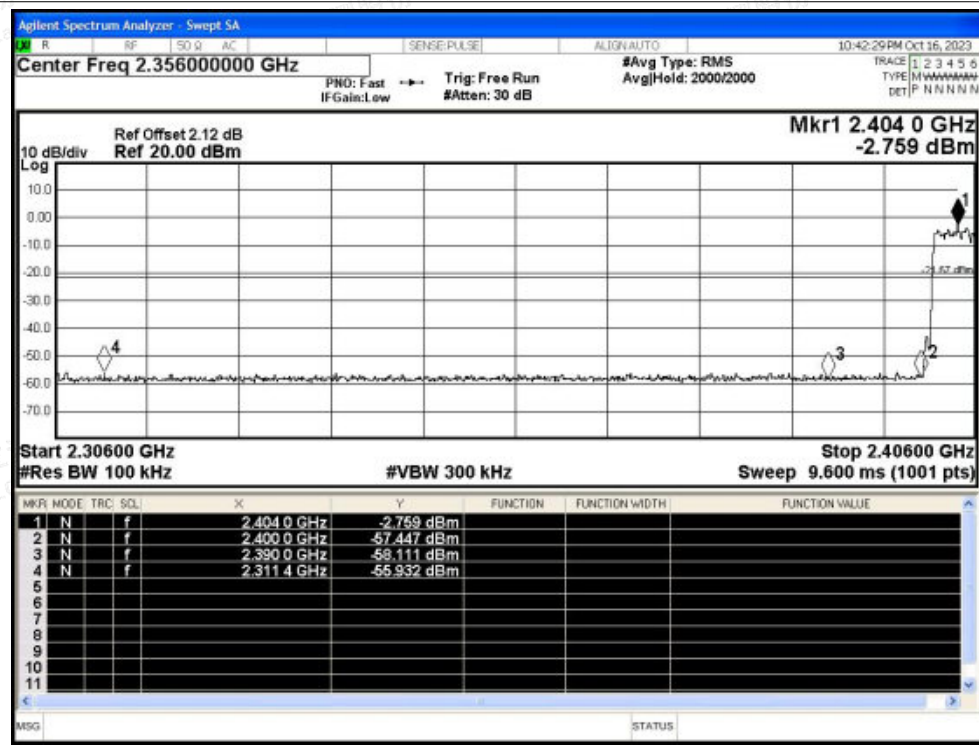




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant0 Hopping Ref



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

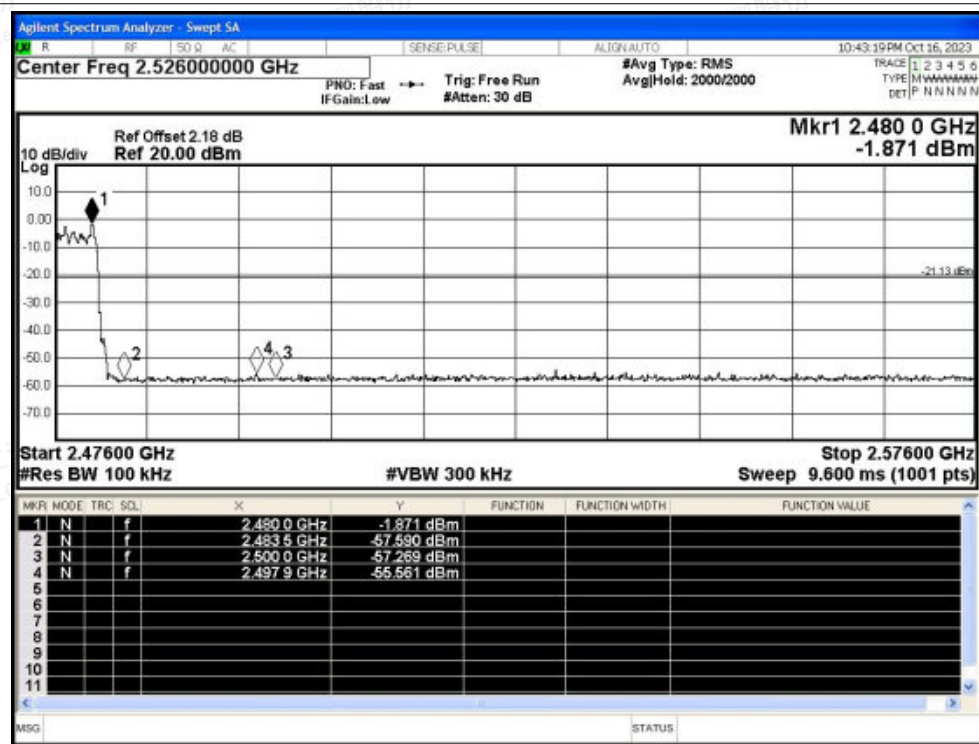




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant0 Hopping Ref



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	-54.58	-20	Pass
NVNT	1-DH5	2441	Ant0	-56	-20	Pass
NVNT	1-DH5	2480	Ant0	-55.25	-20	Pass
NVNT	2-DH5	2402	Ant0	-52.87	-20	Pass
NVNT	2-DH5	2441	Ant0	-55.19	-20	Pass
NVNT	2-DH5	2480	Ant0	-52.9	-20	Pass
NVNT	3-DH5	2402	Ant0	-53.4	-20	Pass
NVNT	3-DH5	2441	Ant0	-54.87	-20	Pass
NVNT	3-DH5	2480	Ant0	-52.44	-20	Pass



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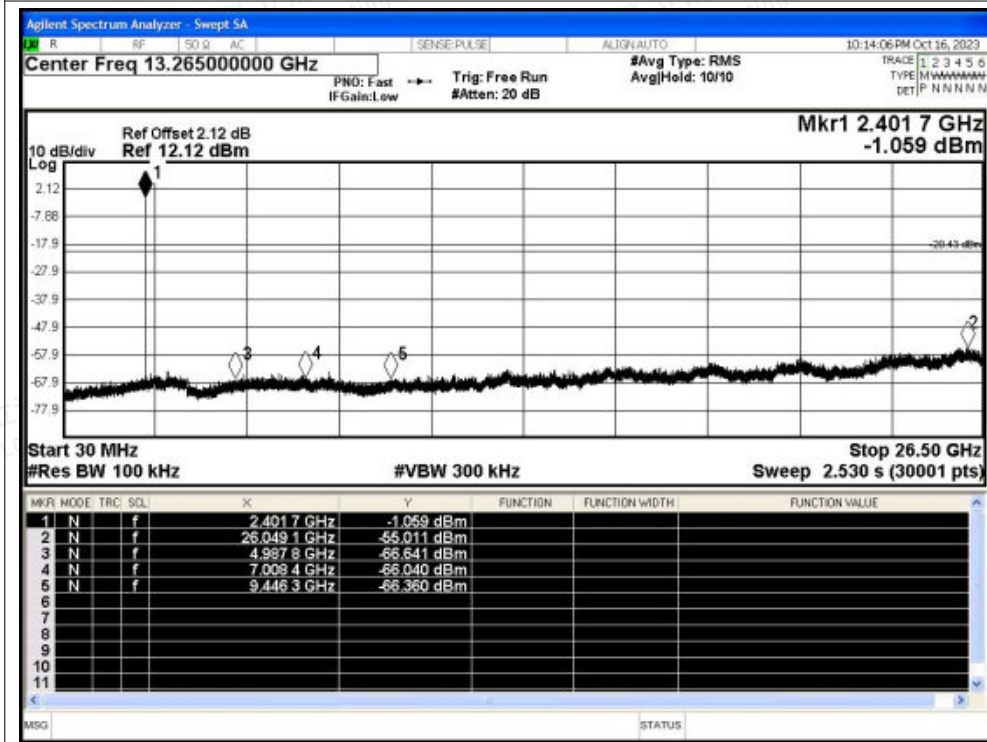


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Emission

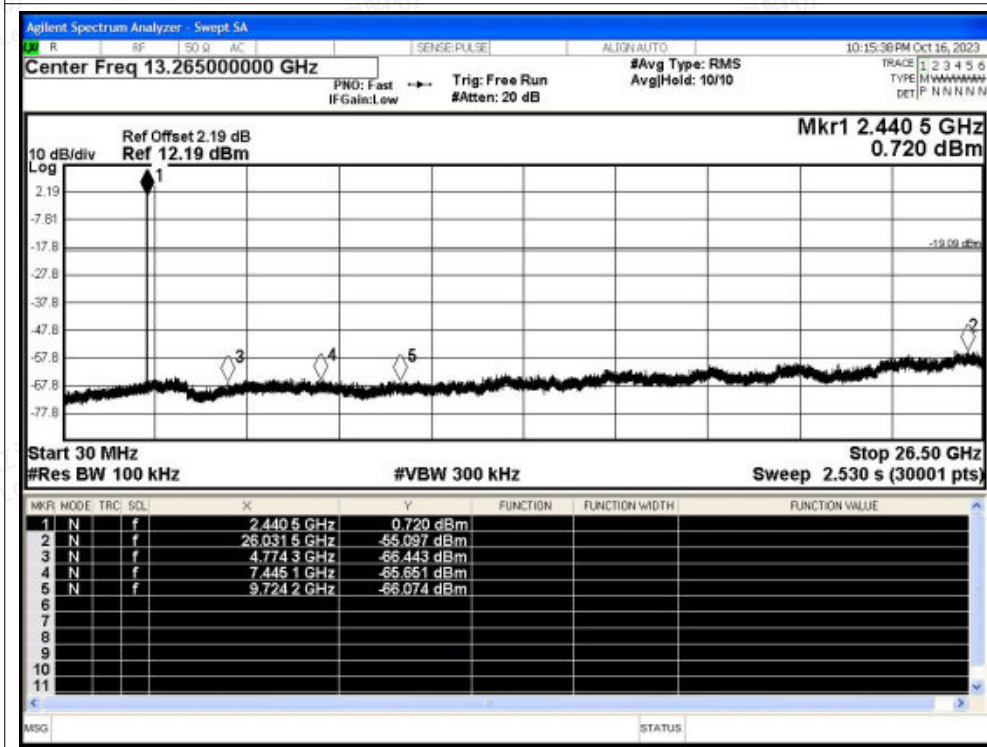




Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Emission

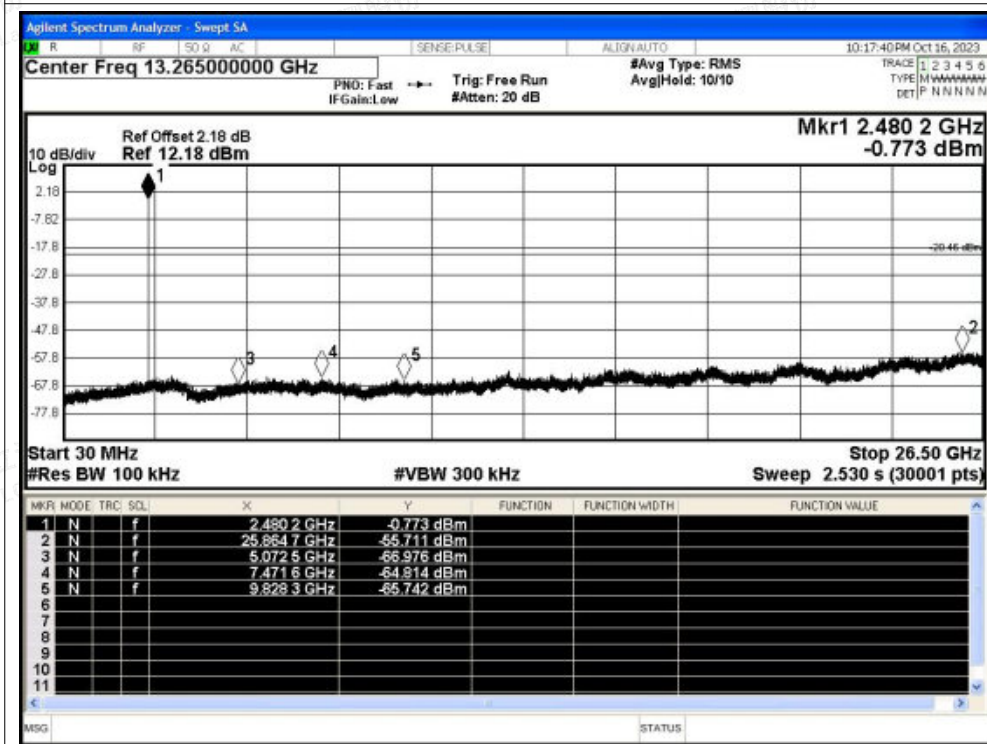




Tx. Spurious NVNT 1-DH5 2480MHz Ant0 Ref

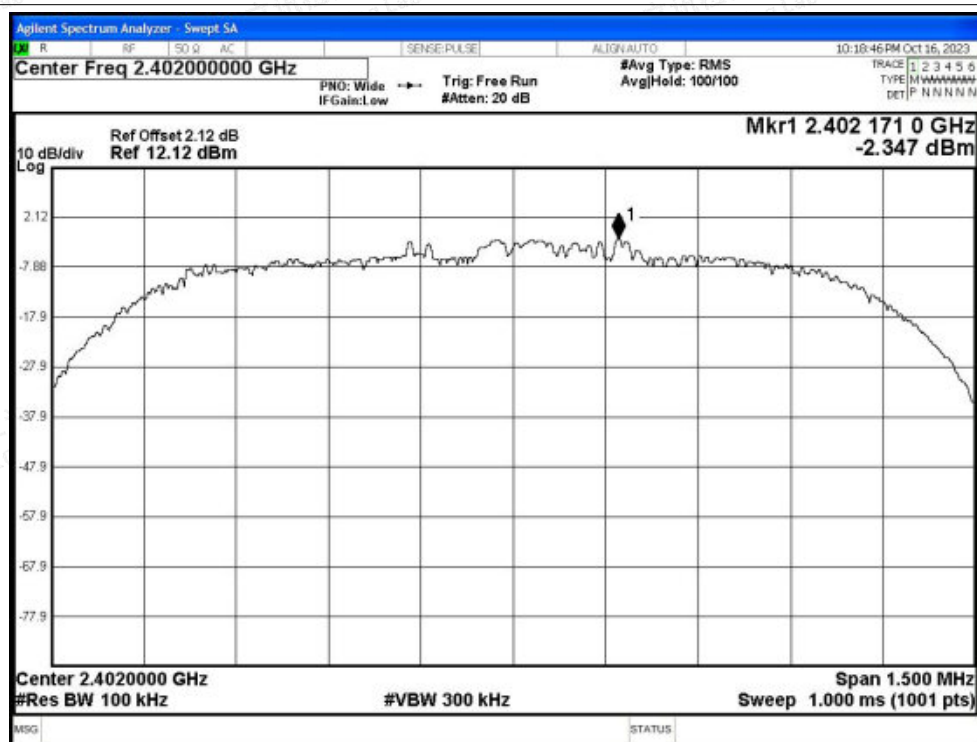


Tx. Spurious NVNT 1-DH5 2480MHz Ant0 Emission

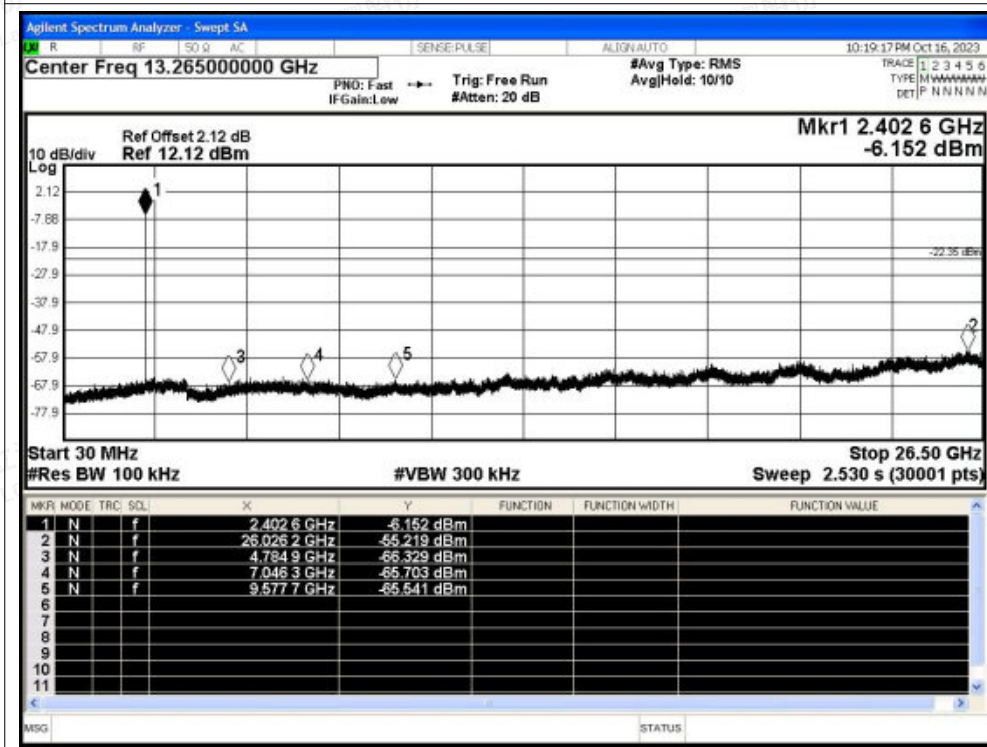




Tx. Spurious NVNT 2-DH5 2402MHz Ant0 Ref

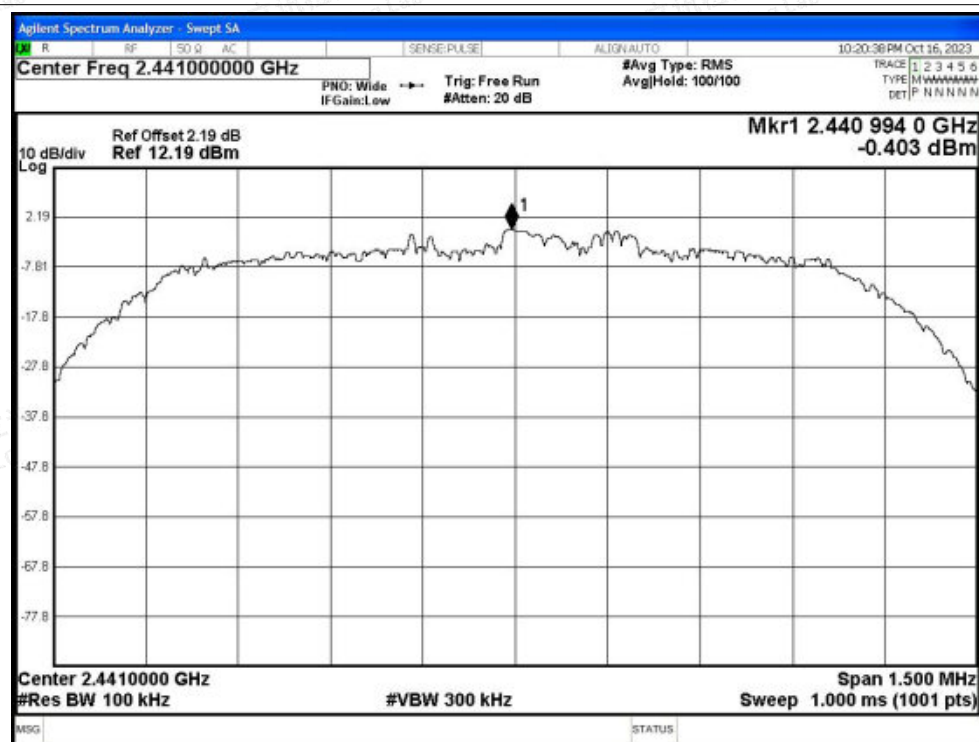


Tx. Spurious NVNT 2-DH5 2402MHz Ant0 Emission

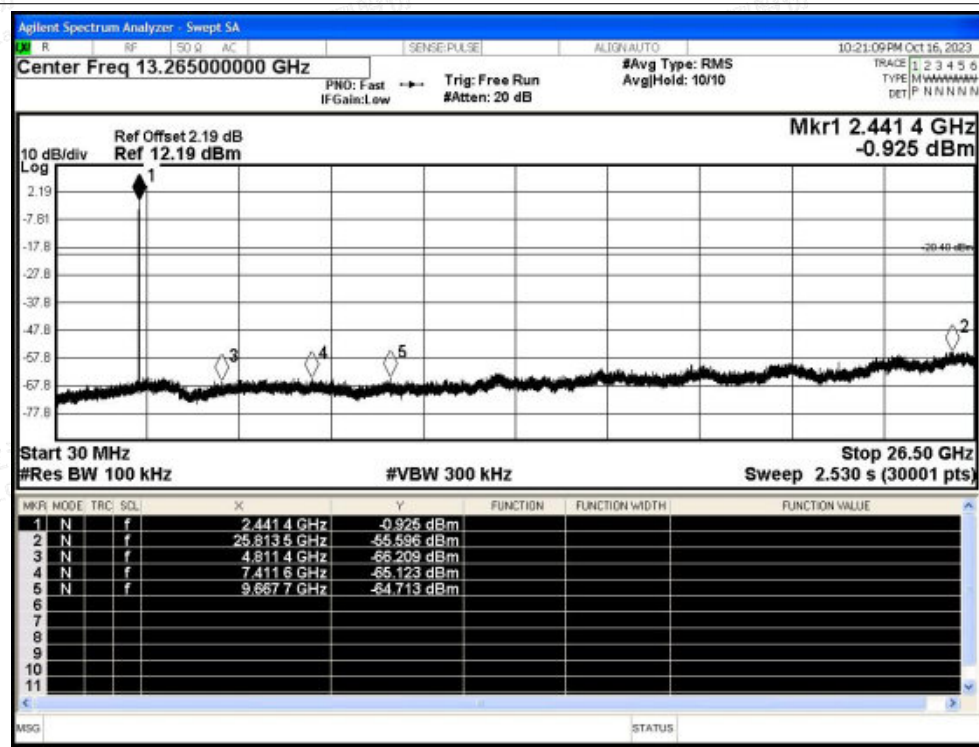




Tx. Spurious NVNT 2-DH5 2441MHz Ant0 Ref

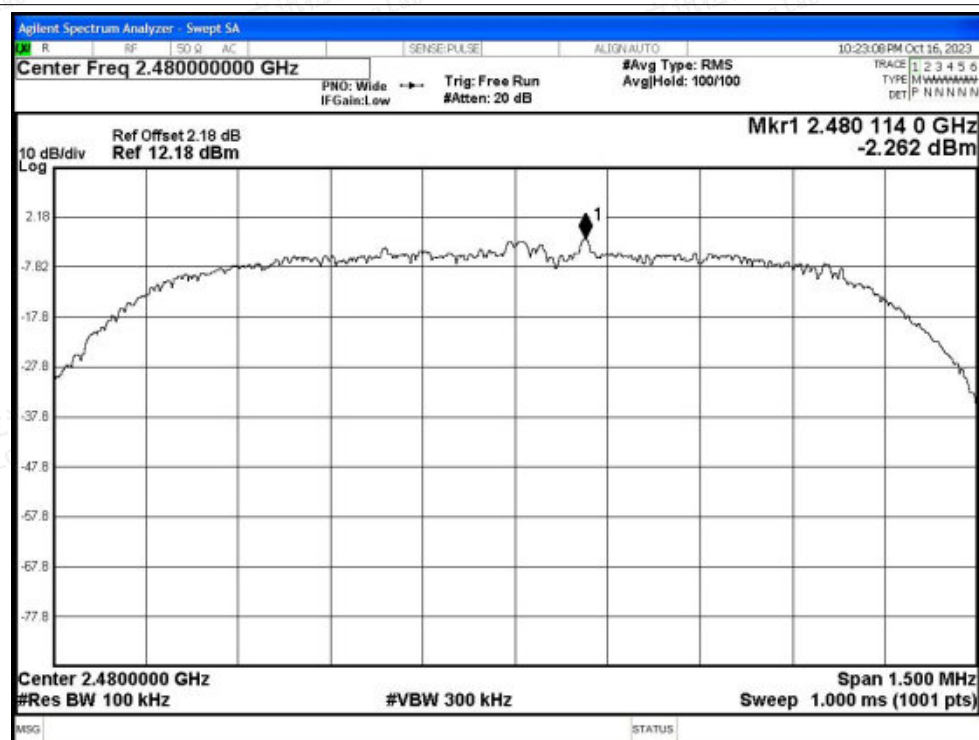


Tx. Spurious NVNT 2-DH5 2441MHz Ant0 Emission

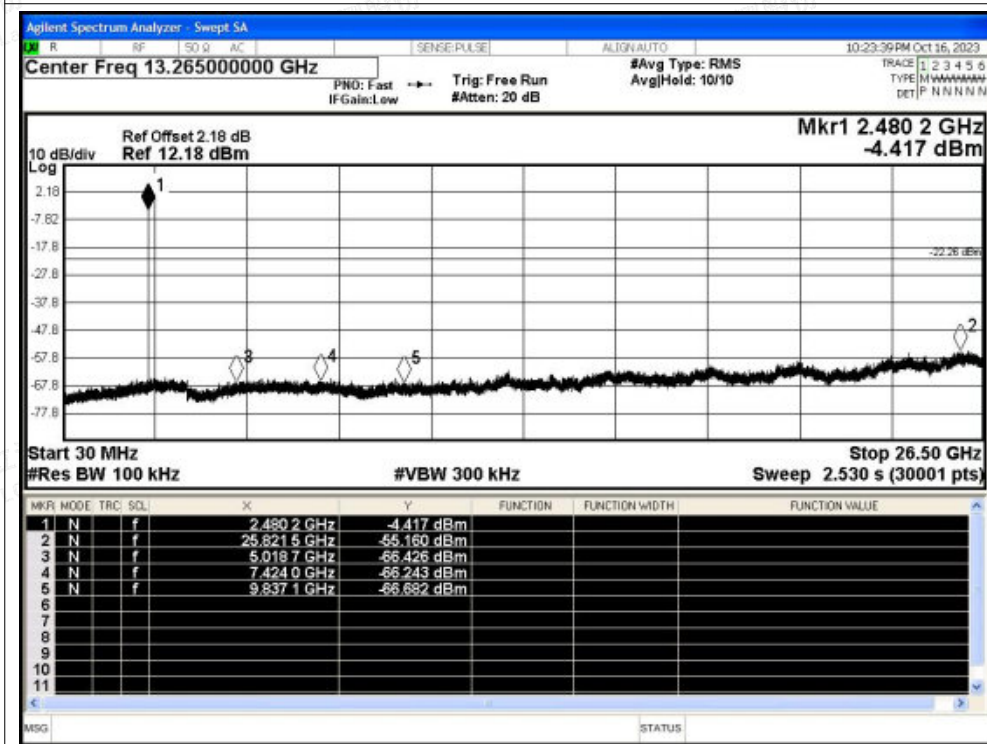




Tx. Spurious NVNT 2-DH5 2480MHz Ant0 Ref

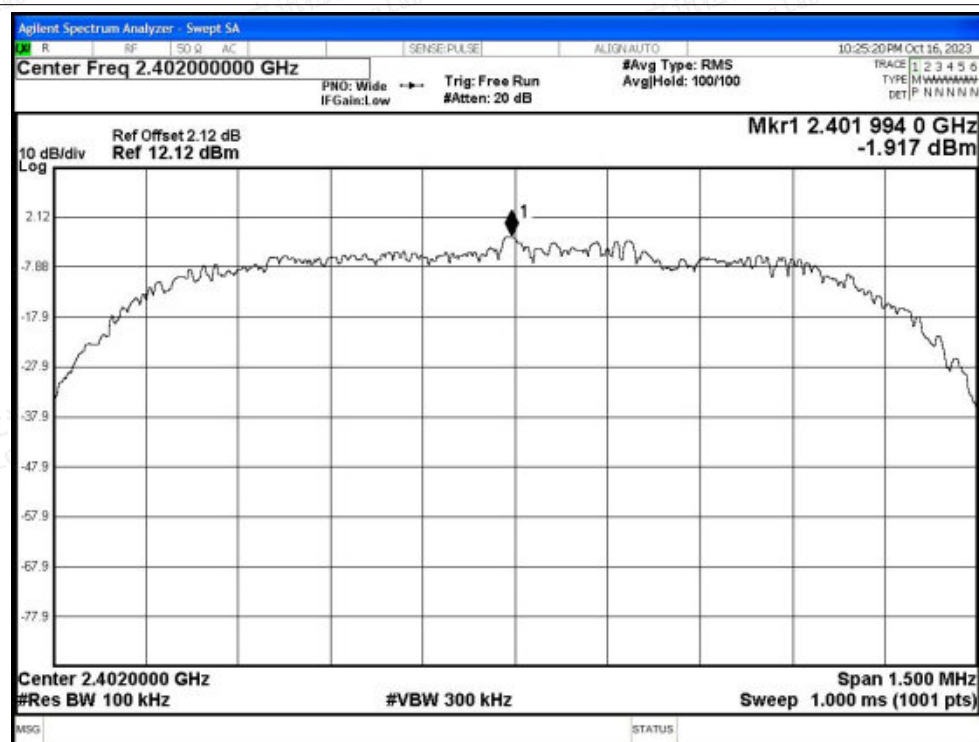


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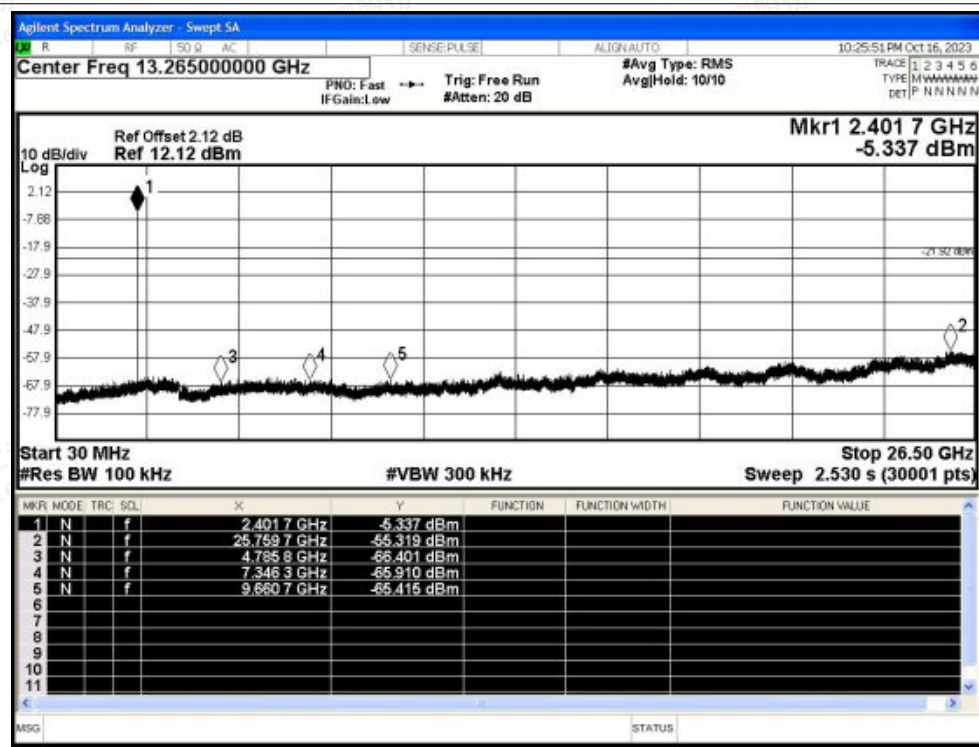




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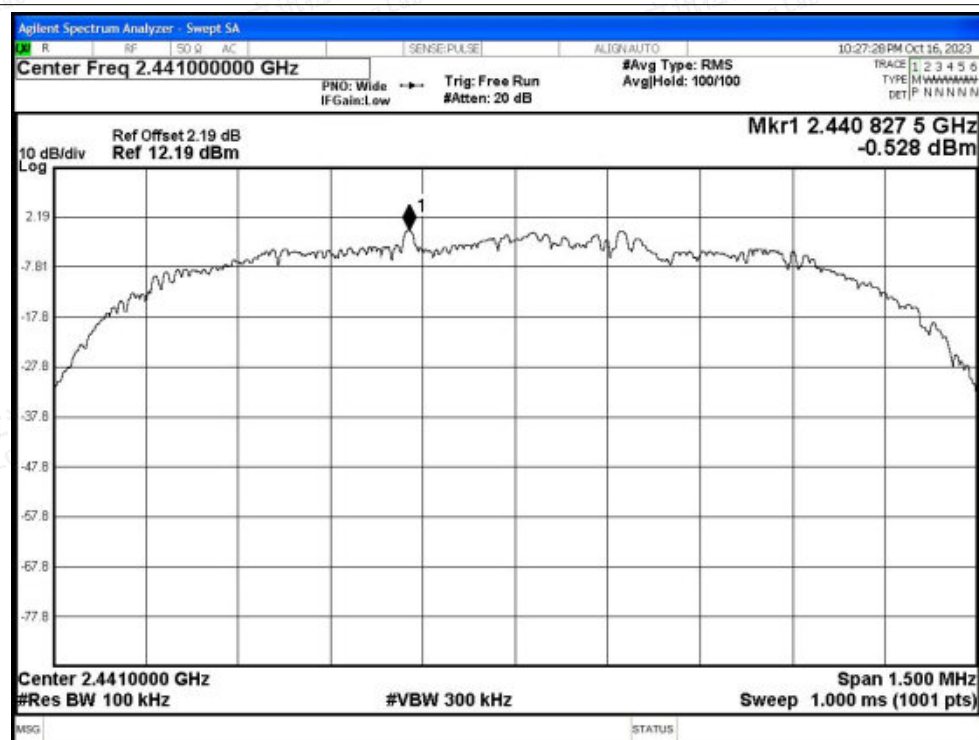


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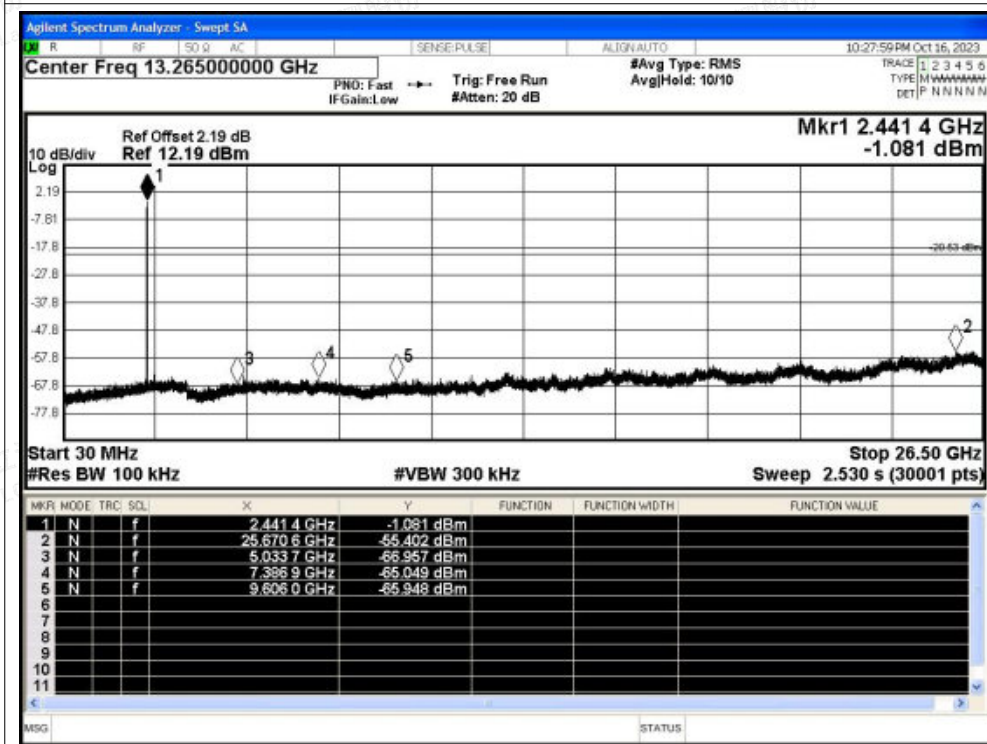




Tx. Spurious NVNT 3-DH5 2441MHz Ant0 Ref

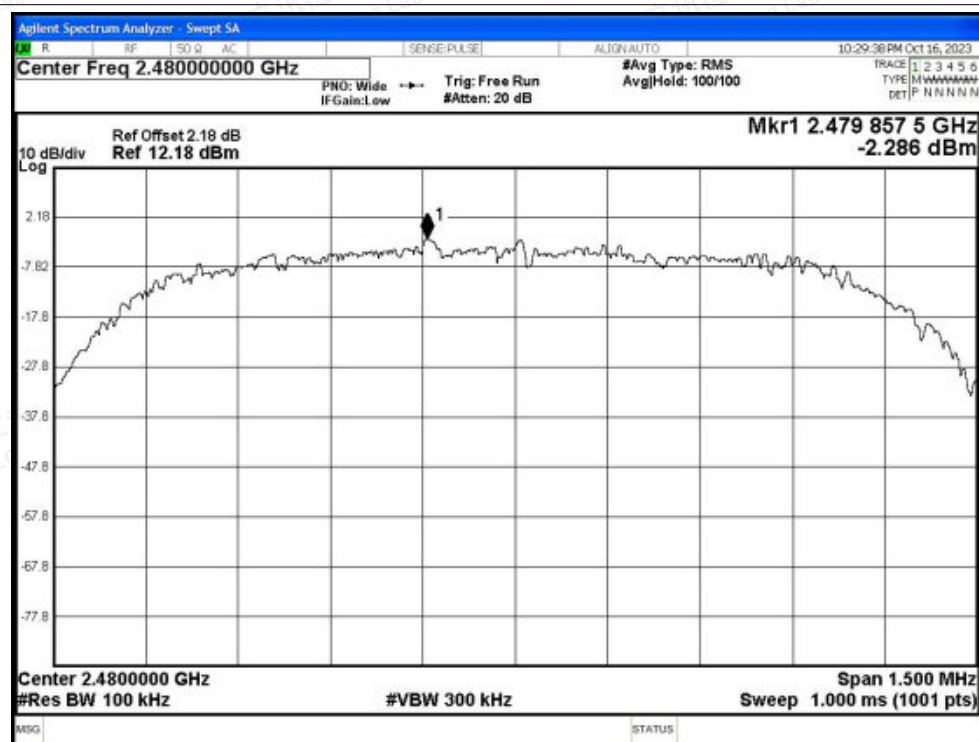


Tx. Spurious NVNT 3-DH5 2441MHz Ant0 Emission

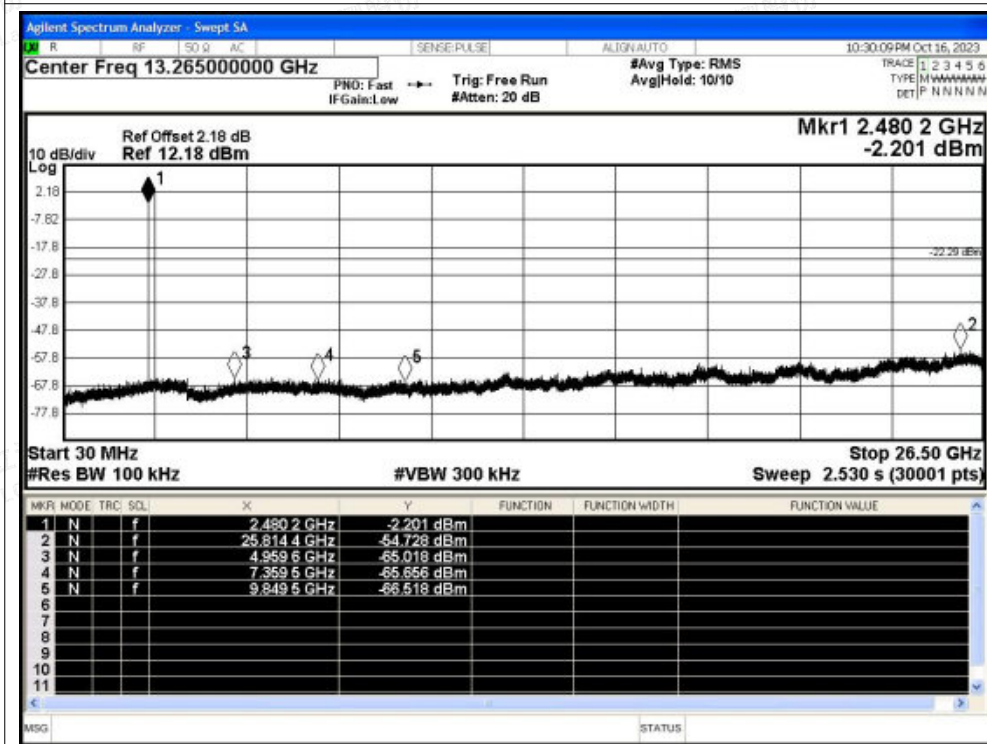




Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Ref



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	-51.37	2.90	46.79	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2310	-57.66	2.90	40.5	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2350.608	-47.01	2.90	51.15	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2388.912	-57.23	2.90	40.93	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-50.18	2.90	47.98	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-57.42	2.90	40.74	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-48.81	2.90	49.35	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-55.87	2.90	42.29	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2484.832	-42.27	2.90	55.89	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.512	-55.87	2.90	42.29	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-49.59	2.90	48.57	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-57.03	2.90	41.13	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-50.95	2.90	47.21	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-56.39	2.90	41.77	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2359.248	-47.53	2.90	50.63	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2372.688	-55.31	2.90	42.85	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-49.6	2.90	48.56	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-55.57	2.90	42.59	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-50.55	2.90	47.61	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-54.71	2.90	43.45	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2487.088	-46.65	2.90	51.51	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.776	-54.62	2.90	43.54	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-50.77	2.90	47.39	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-55.87	2.90	42.29	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-49.22	2.90	48.94	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-56.48	2.90	41.68	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2324.208	-47.13	2.90	51.03	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2385.552	-55.43	2.90	42.73	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-51.9	2.90	46.26	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-56.16	2.90	42	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-39.32	2.90	58.84	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-54.15	2.90	44.01	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.512	-39.32	2.90	58.84	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.68	-52.6	2.90	45.56	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-48.9	2.90	49.26	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-55.92	2.90	42.24	Average	54	Pass

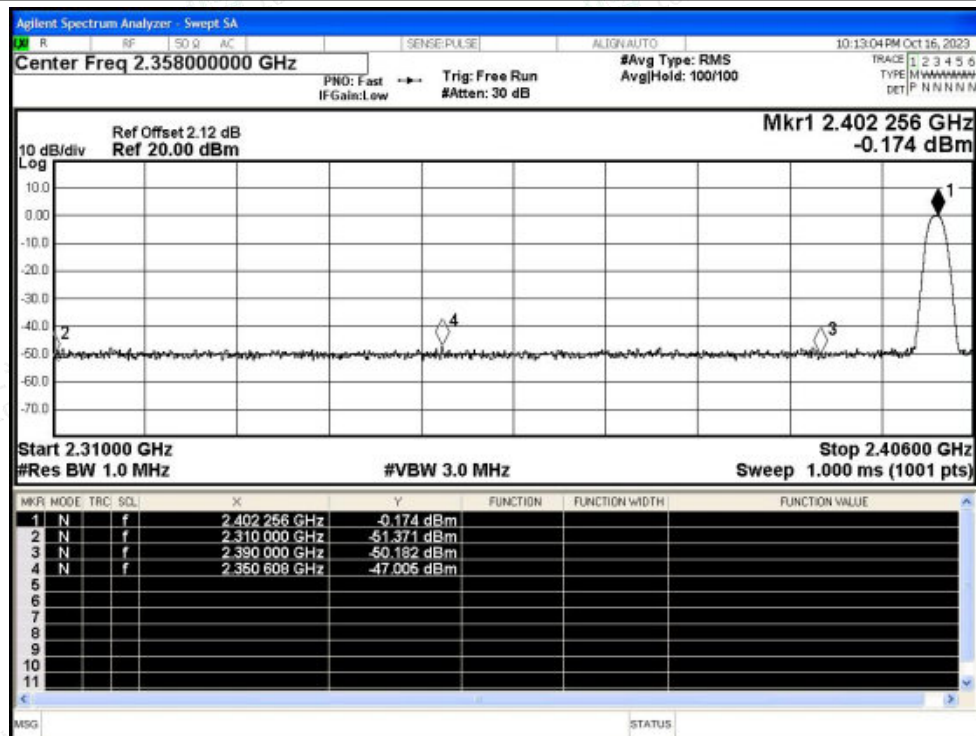


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Scan code to check authenticity

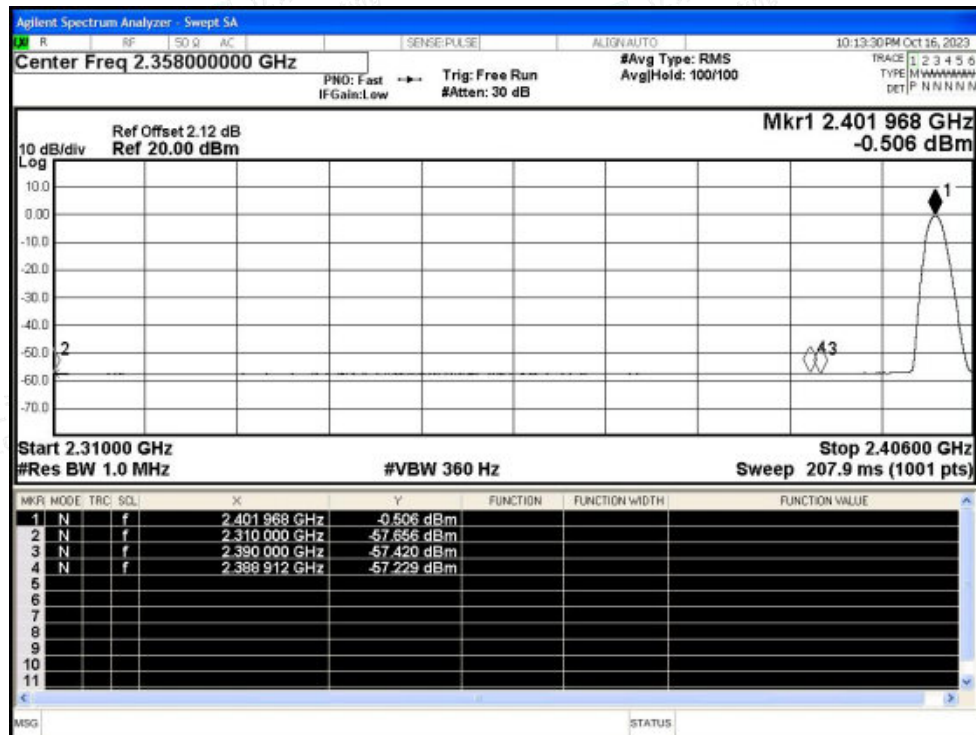


Test Graphs

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

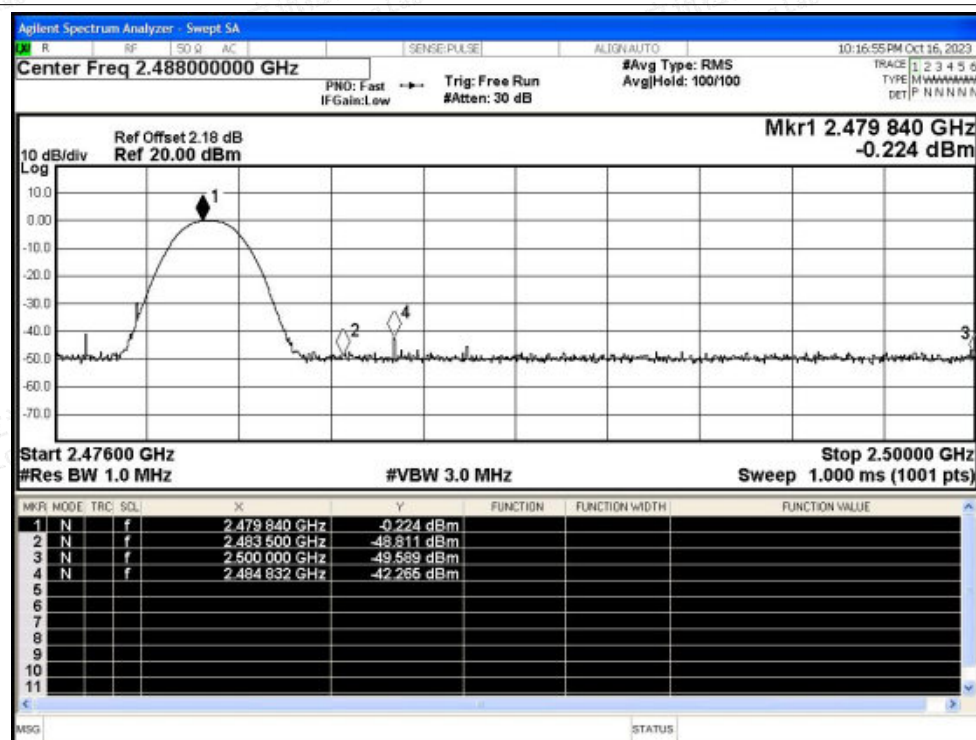


Restrict Band NVNT 1-DH5 2402MHz Ant0 No-Hopping Average

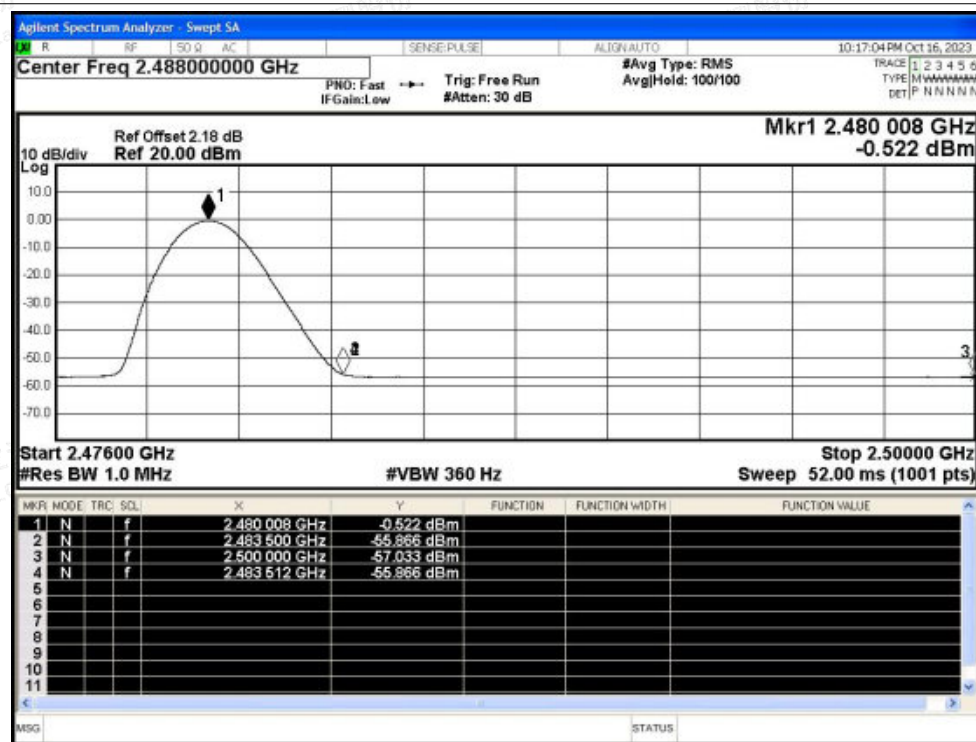




Restrict Band NVNT 1-DH5 2480MHz Ant0 No-Hopping Peak

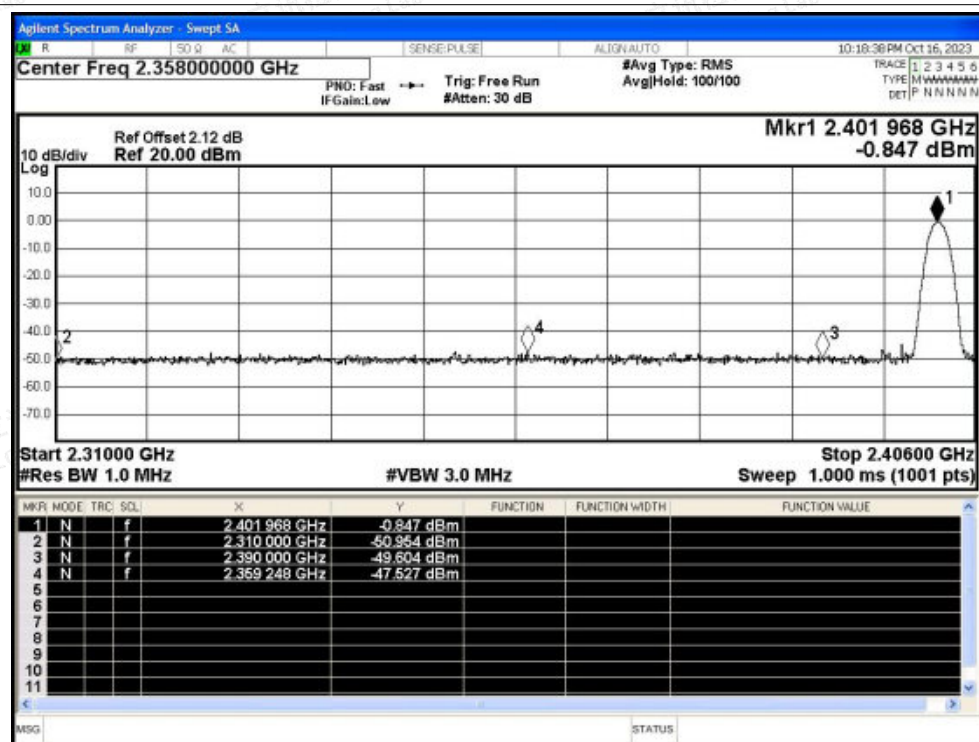


Restrict Band NVNT 1-DH5 2480MHz Ant0 No-Hopping Average

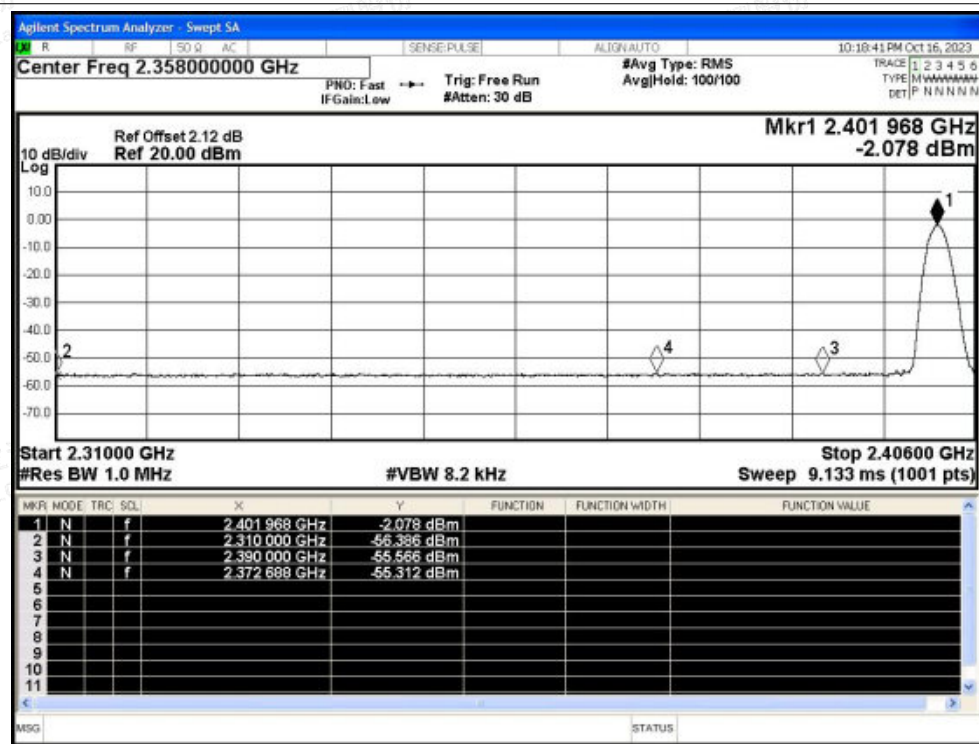




Restrict Band NVNT 2-DH5 2402MHz Ant0 No-Hopping Peak

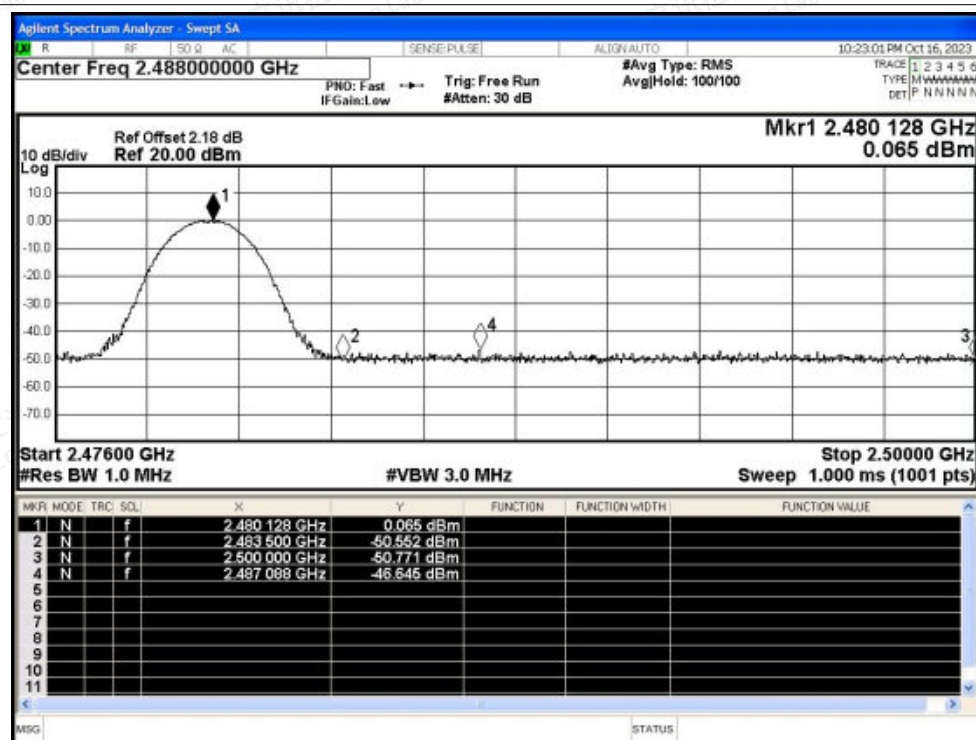


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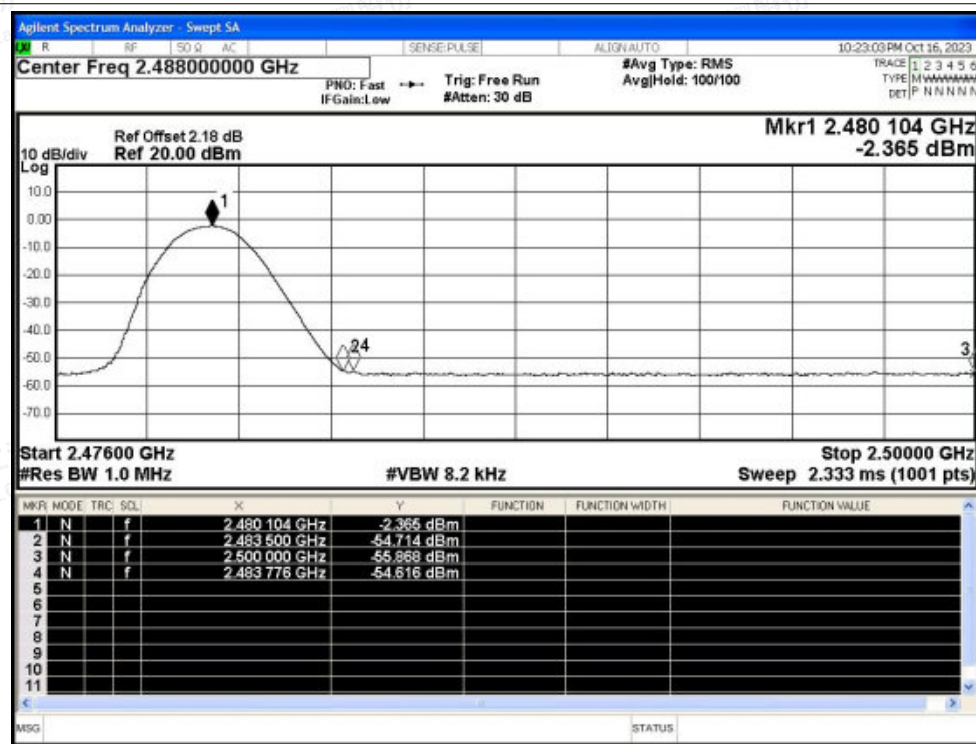




Restrict Band NVNT 2-DH5 2480MHz Ant0 No-Hopping Peak

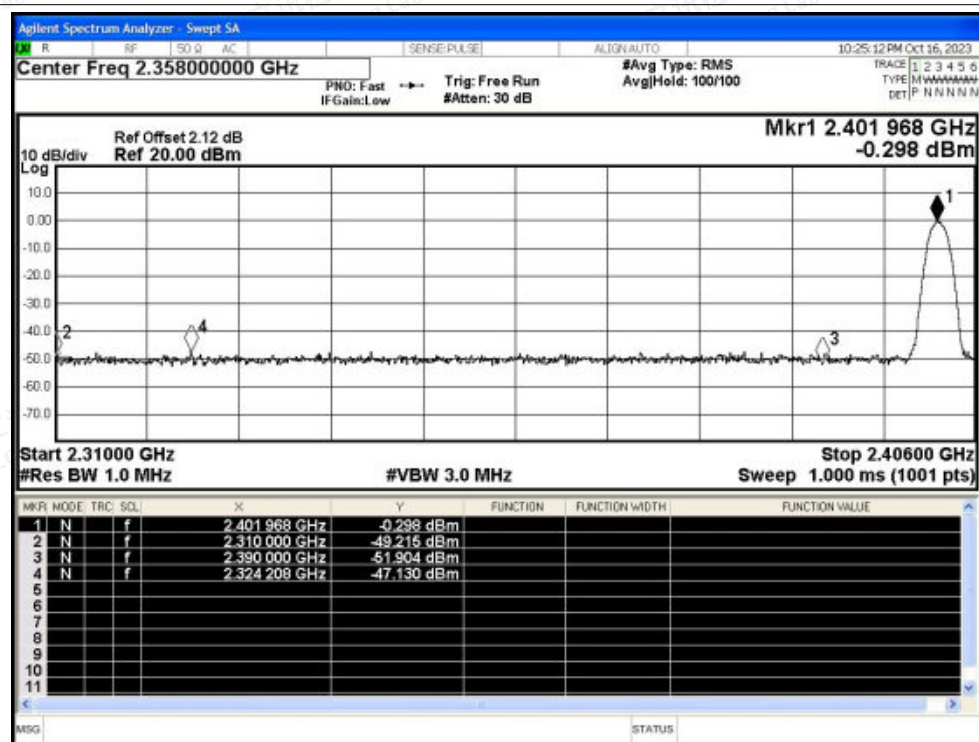


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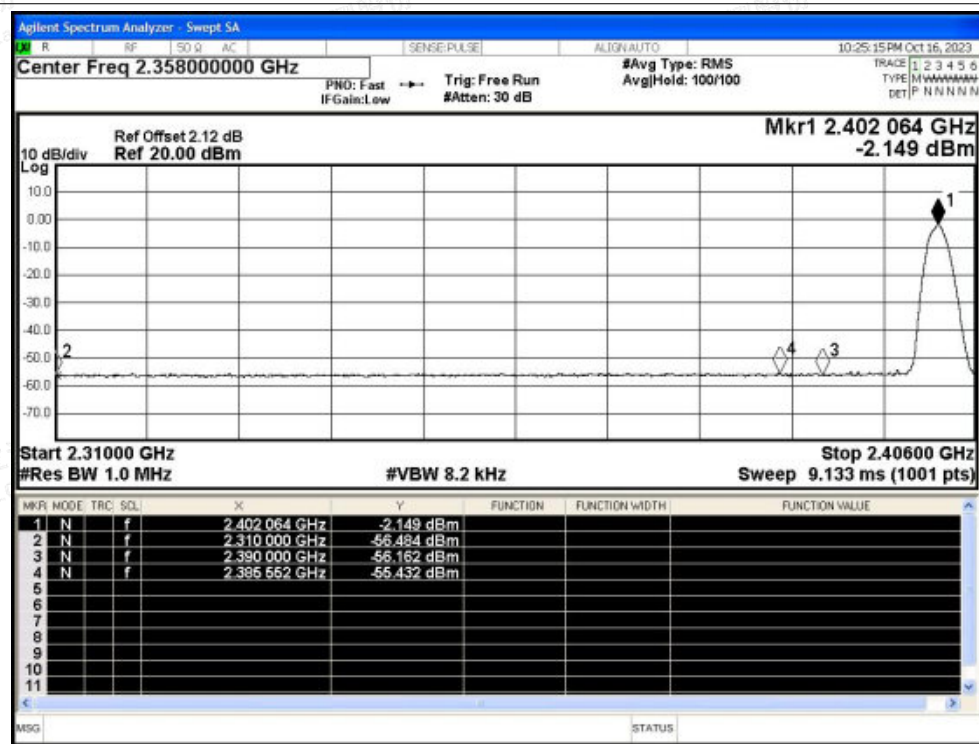




Restrict Band NVNT 3-DH5 2402MHz Ant0 No-Hopping Peak

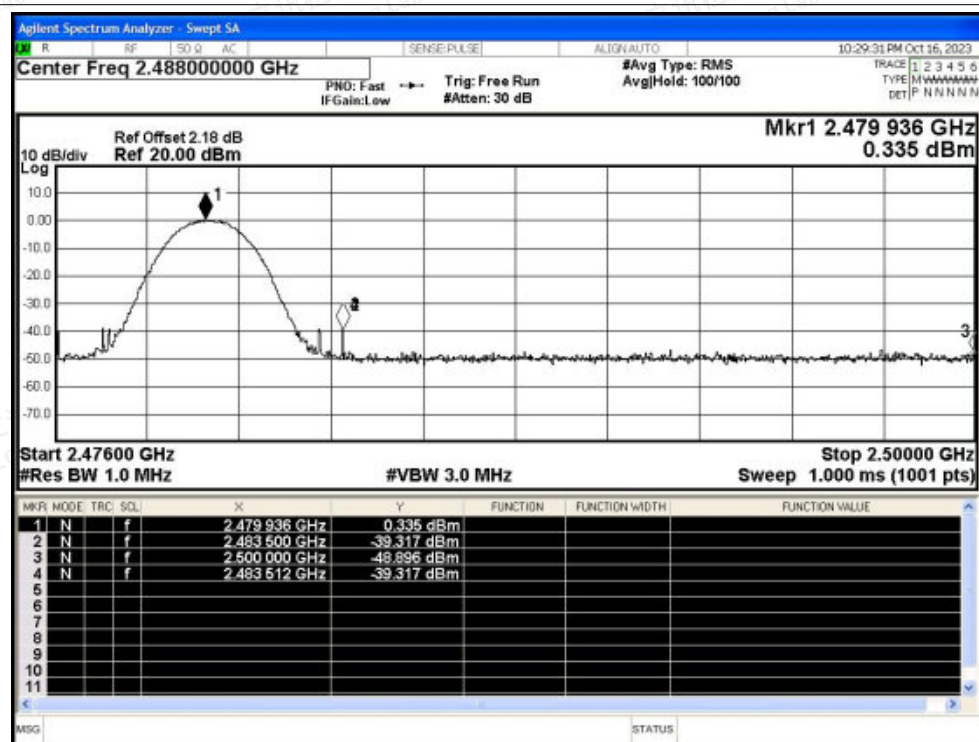


Restrict Band NVNT 3-DH5 2402MHz Ant0 No-Hopping Average





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



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

