



Appendix A

RF Test Data for BT(Conducted Measurement)

Product Name: Digital Projector

Test Model: NeoPix 750 Smart

Environmental Conditions

Temperature:	26.3° C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant0	0.949	N/A	Pass
NVNT	1-DH5	2441	Ant0	0.972	N/A	Pass
NVNT	1-DH5	2480	Ant0	0.948	N/A	Pass
NVNT	2-DH5	2402	Ant0	1.28	N/A	Pass
NVNT	2-DH5	2441	Ant0	1.285	N/A	Pass
NVNT	2-DH5	2480	Ant0	1.3	N/A	Pass
NVNT	3-DH5	2402	Ant0	1.31	N/A	Pass
NVNT	3-DH5	2441	Ant0	1.28	N/A	Pass
NVNT	3-DH5	2480	Ant0	1.291	N/A	Pass



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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant0

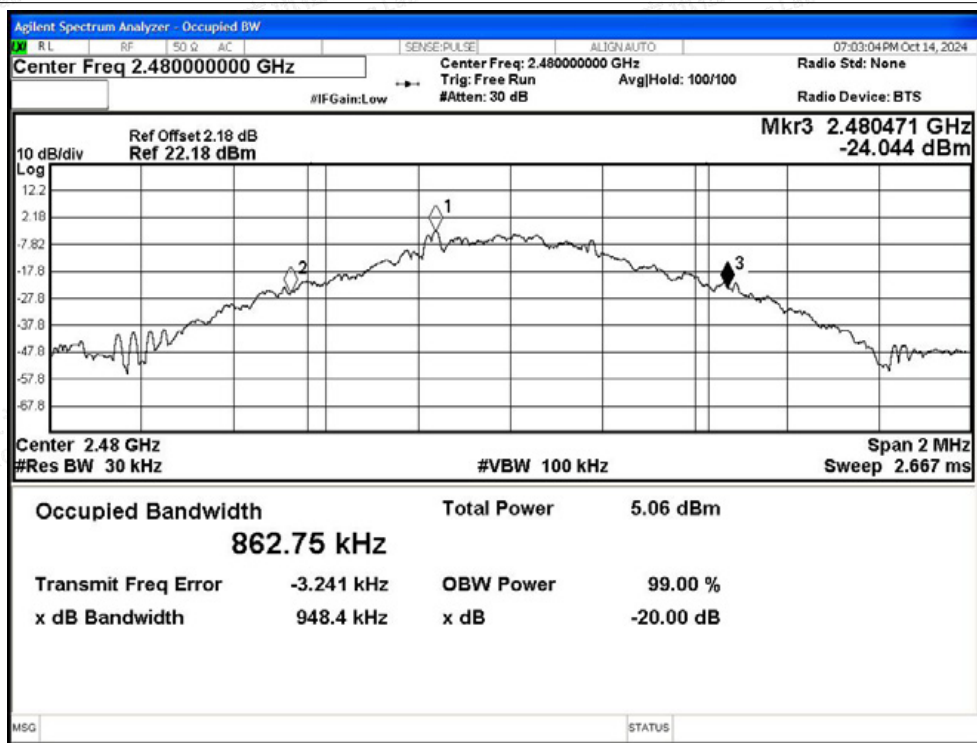


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant0

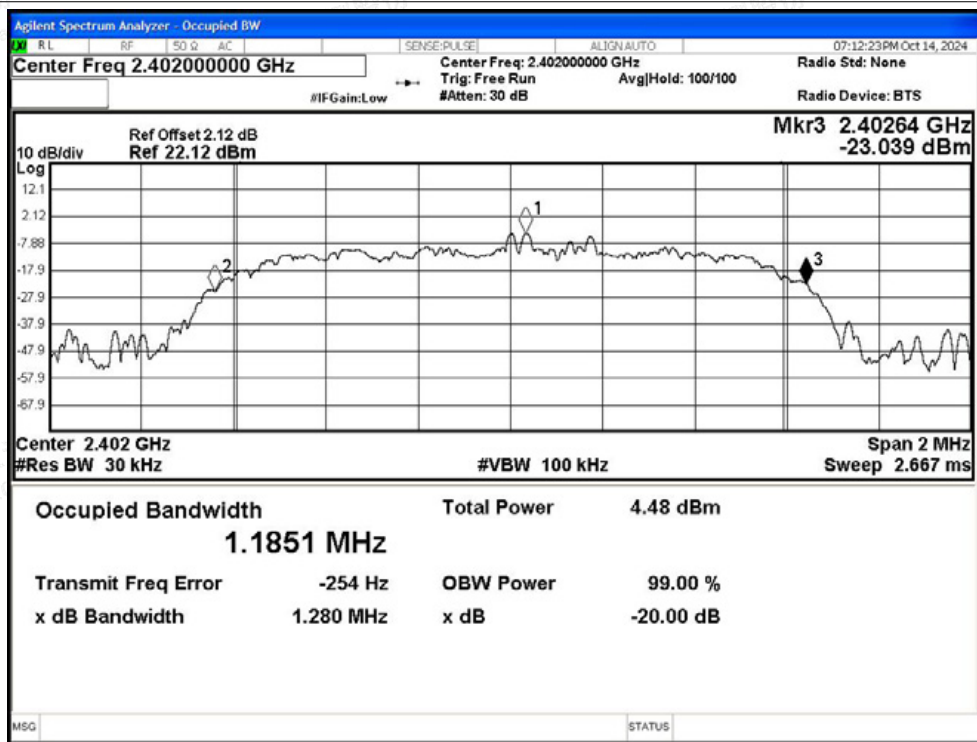




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant0

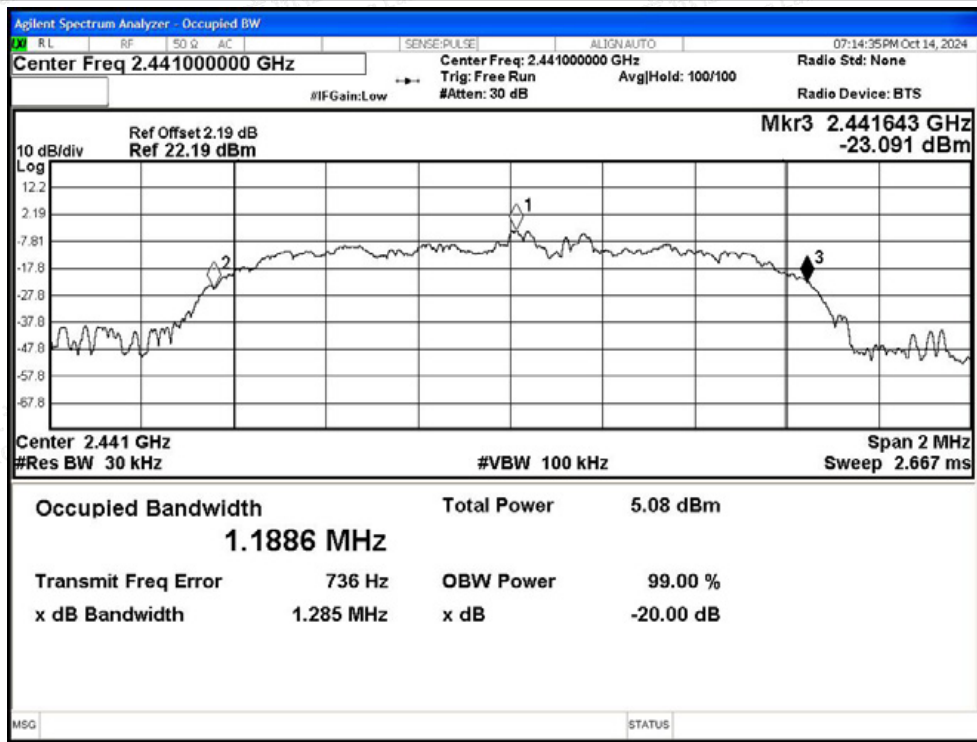


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant0

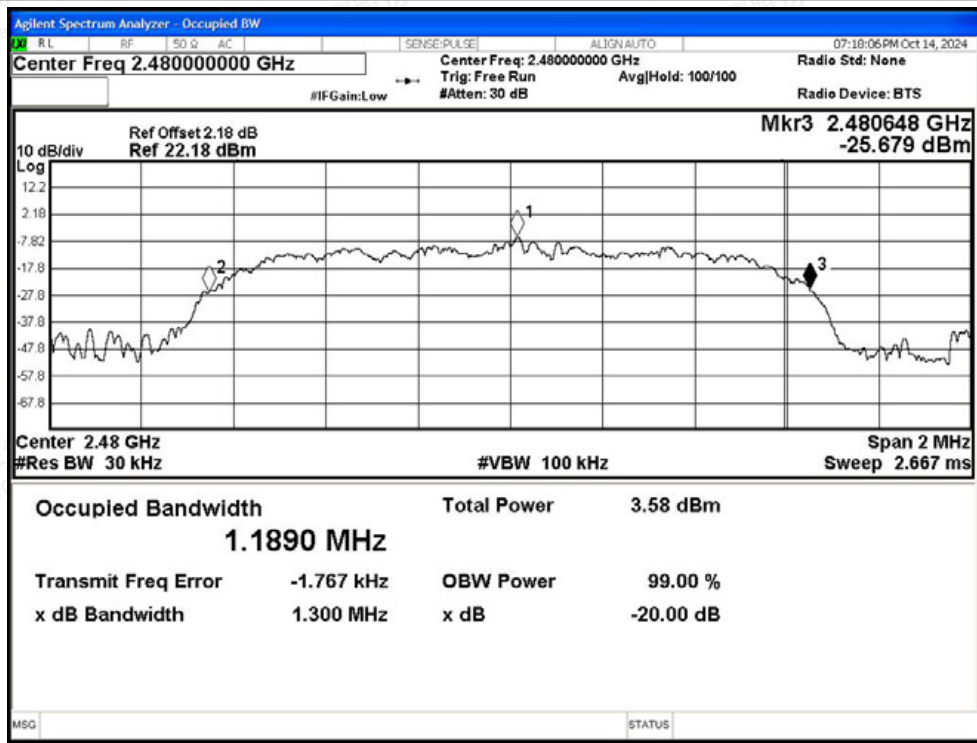




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant0

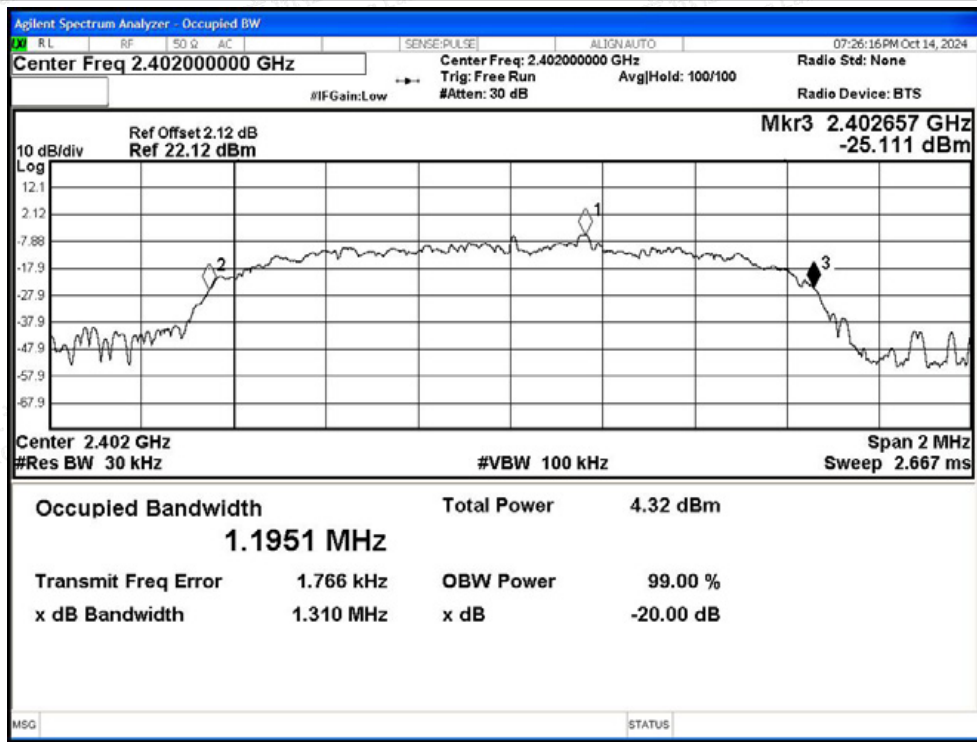


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant0

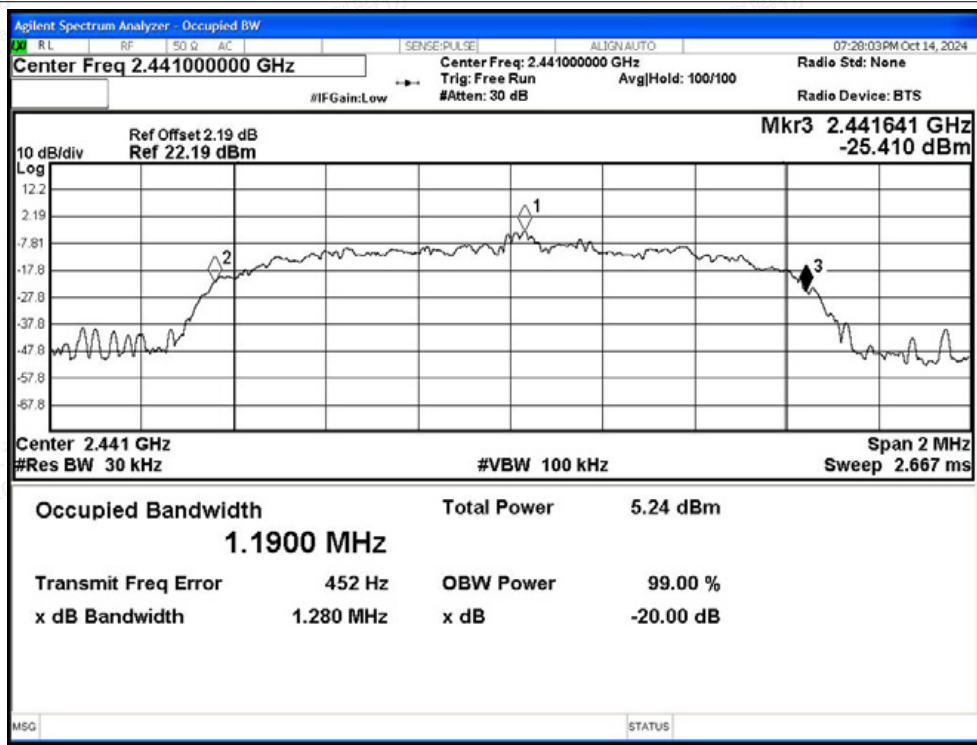




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant0

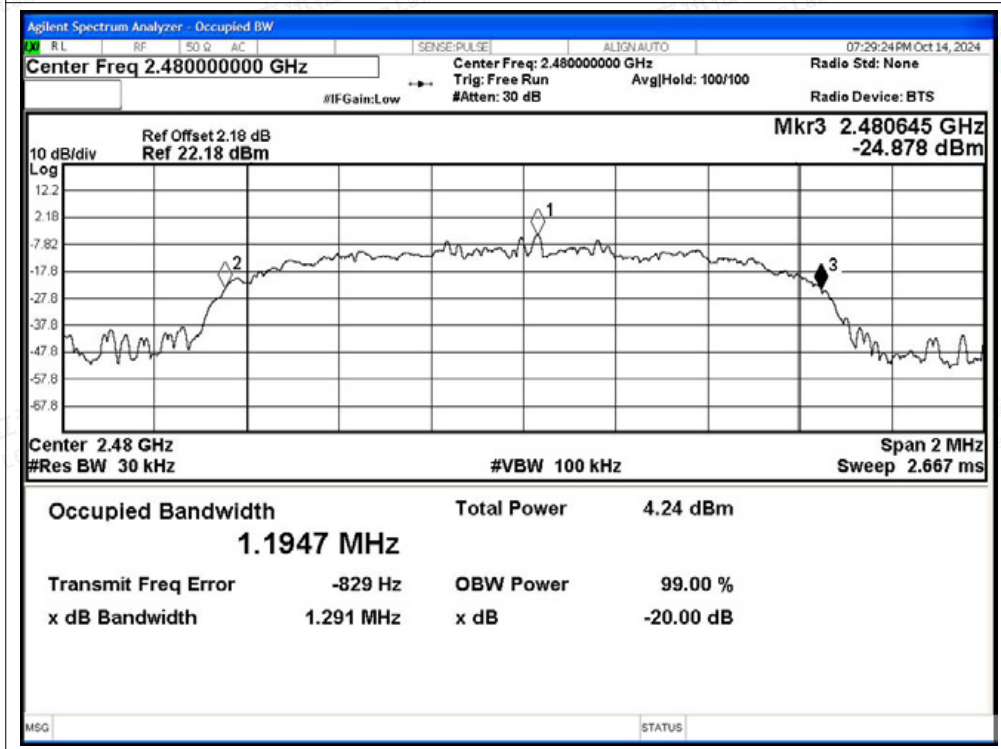


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant0





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant0





A.2 Maximum Peak Conducted Output Power

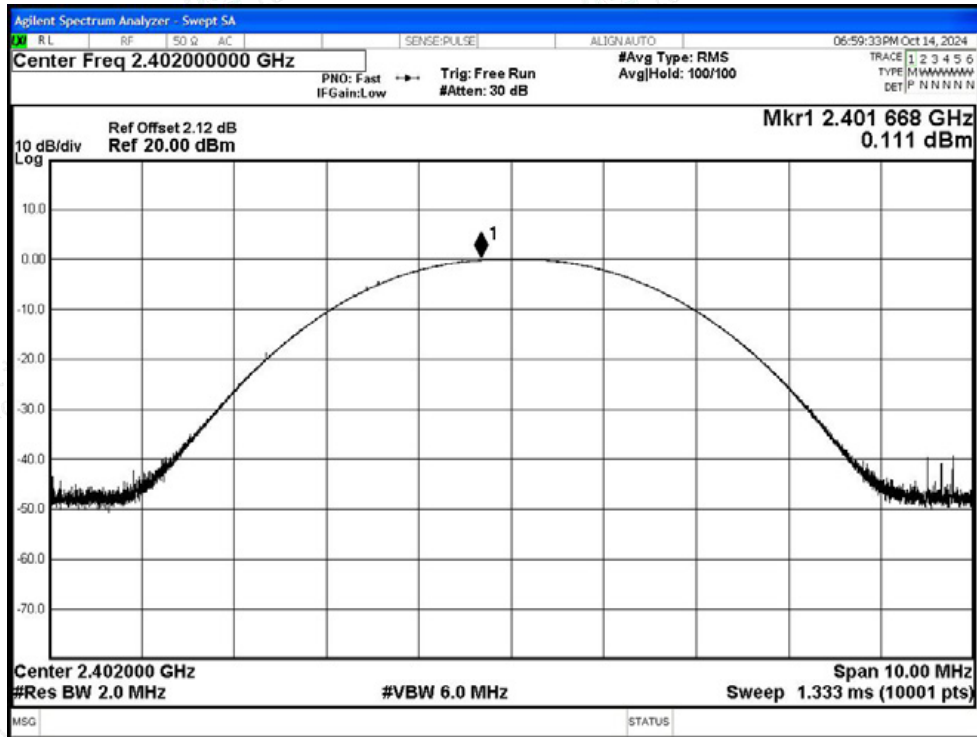
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant0	0.11	21	Pass
NVNT	1-DH5	2441	Ant0	-0.35	21	Pass
NVNT	1-DH5	2480	Ant0	-1.32	21	Pass
NVNT	2-DH5	2402	Ant0	0.16	21	Pass
NVNT	2-DH5	2441	Ant0	0.60	21	Pass
NVNT	2-DH5	2480	Ant0	-0.42	21	Pass
NVNT	3-DH5	2402	Ant0	0.54	21	Pass
NVNT	3-DH5	2441	Ant0	1.03	21	Pass
NVNT	3-DH5	2480	Ant0	0.11	21	Pass



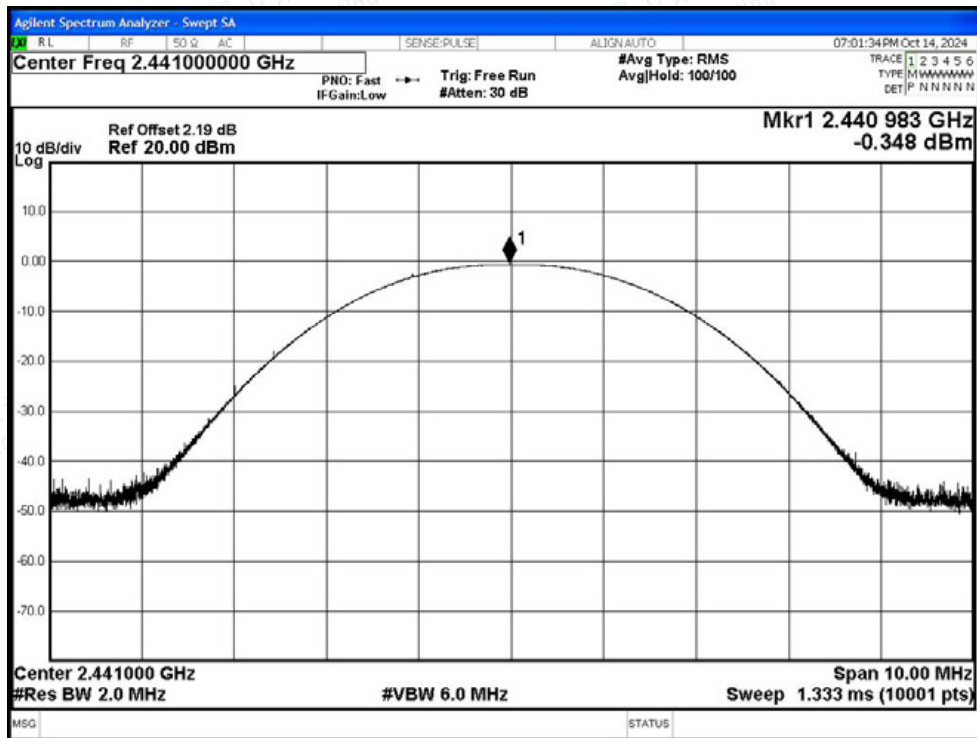


Test Graphs

Power NVNT 1-DH5 2402MHz Ant0

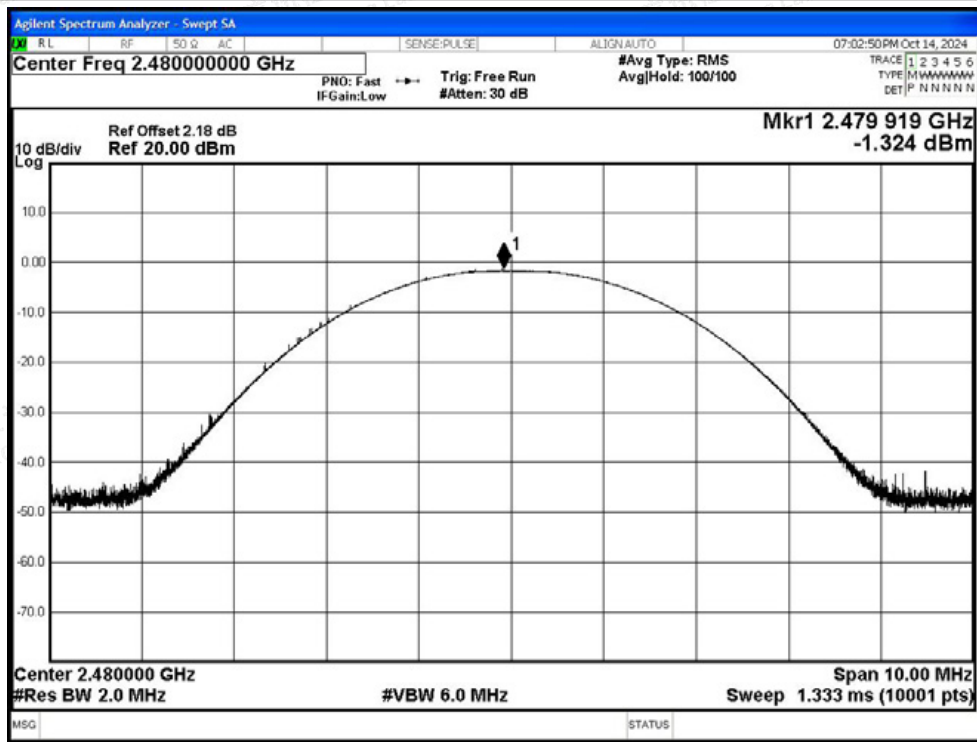


Power NVNT 1-DH5 2441MHz Ant0

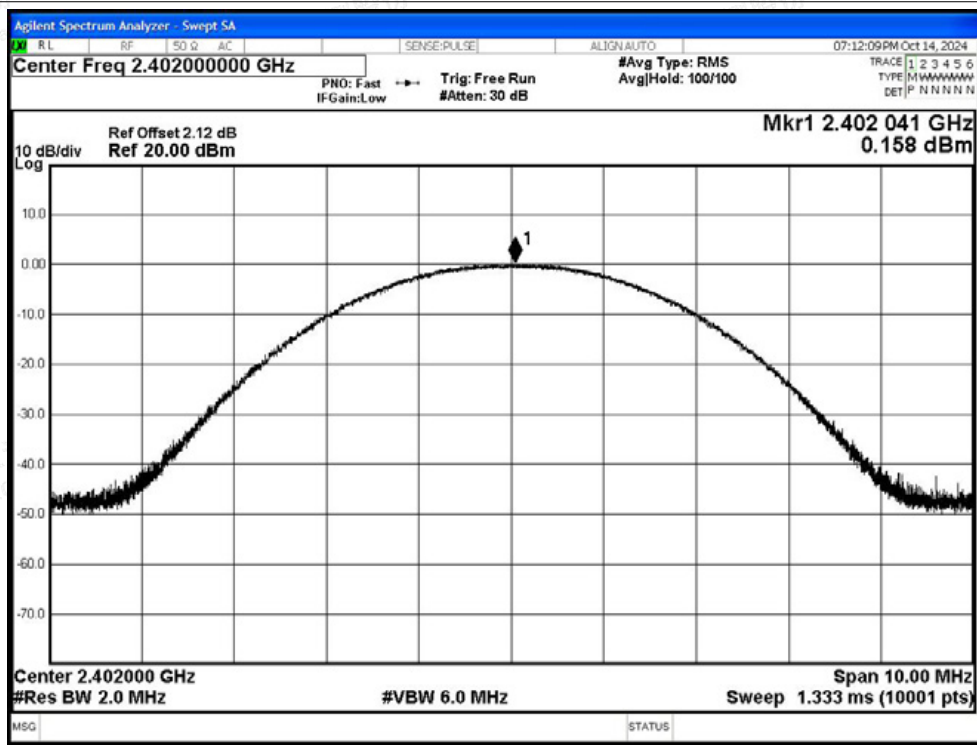




Power NVNT 1-DH5 2480MHz Ant0

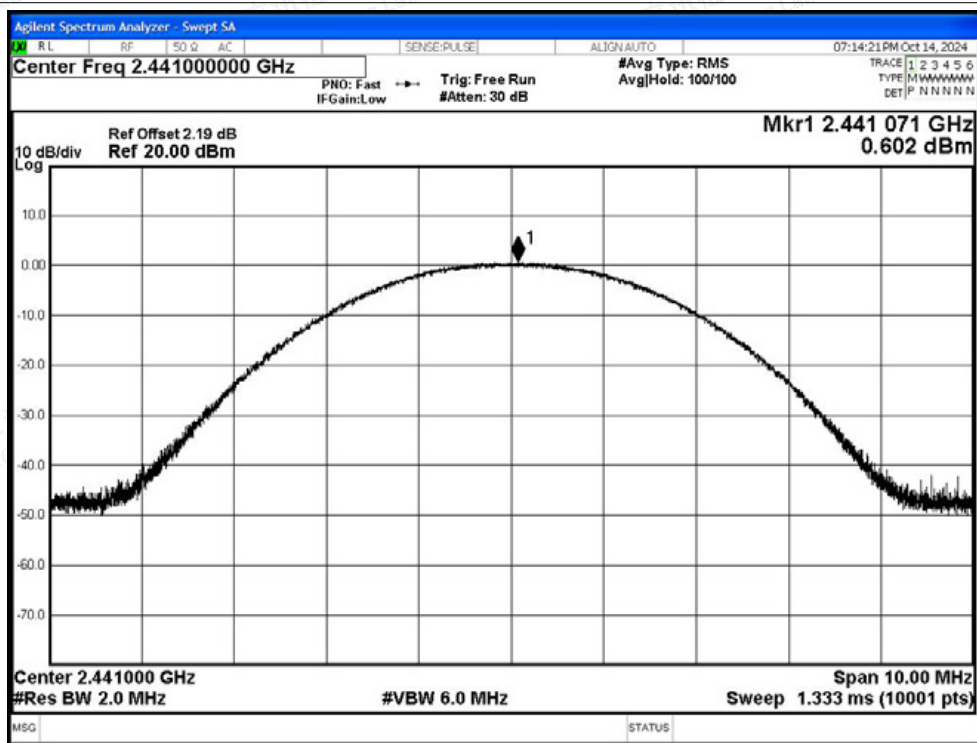


Power NVNT 2-DH5 2402MHz Ant0

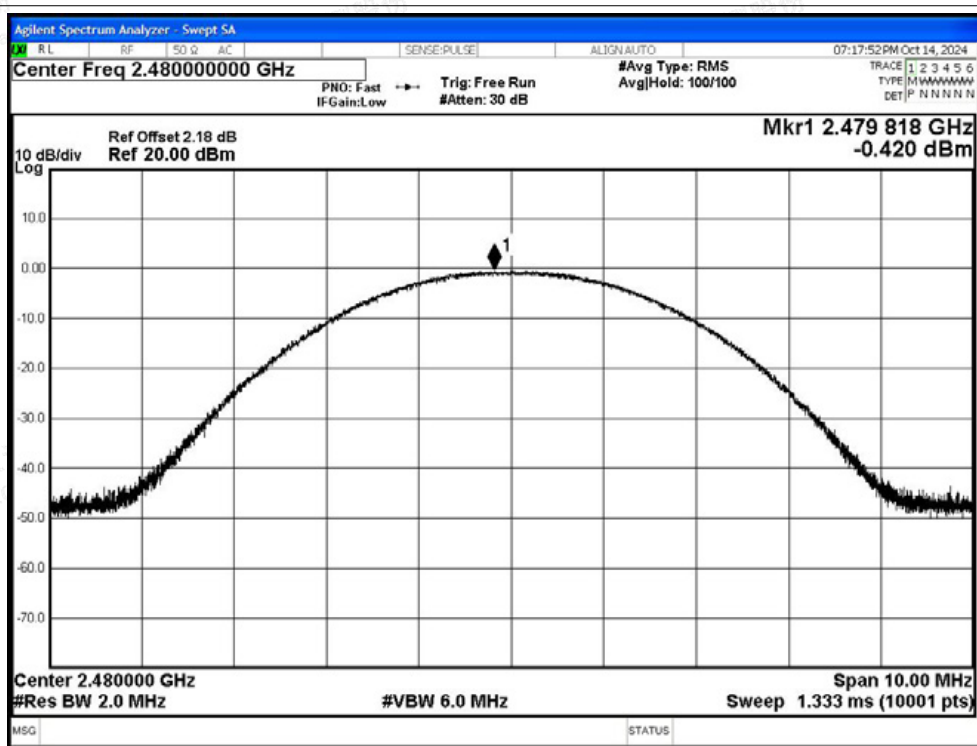




Power NVNT 2-DH5 2441MHz Ant0

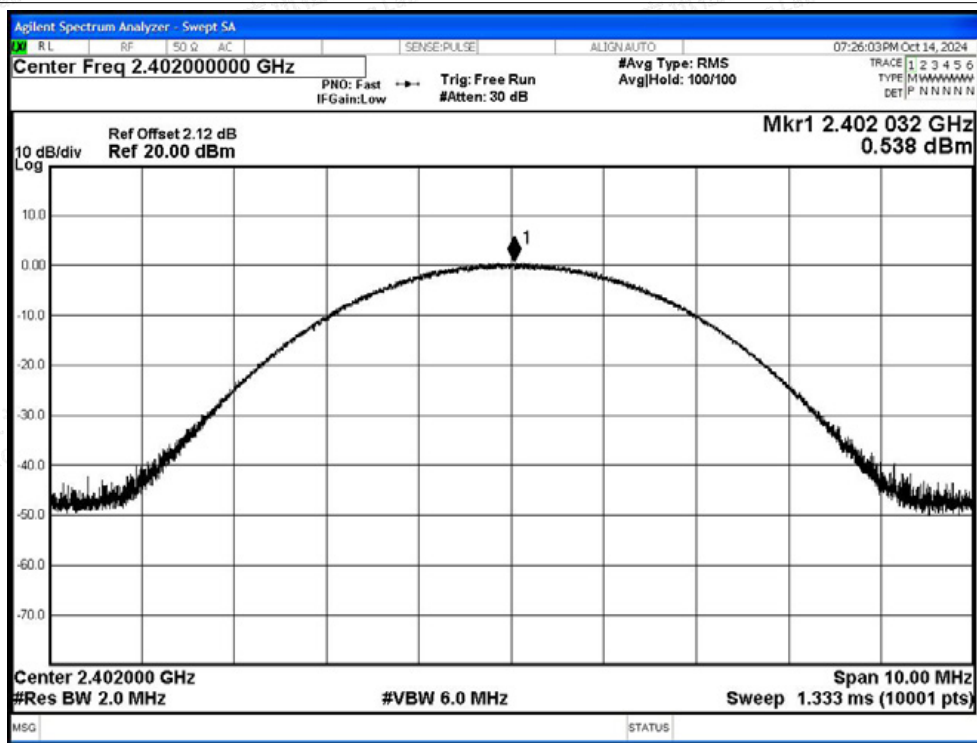


Power NVNT 2-DH5 2480MHz Ant0

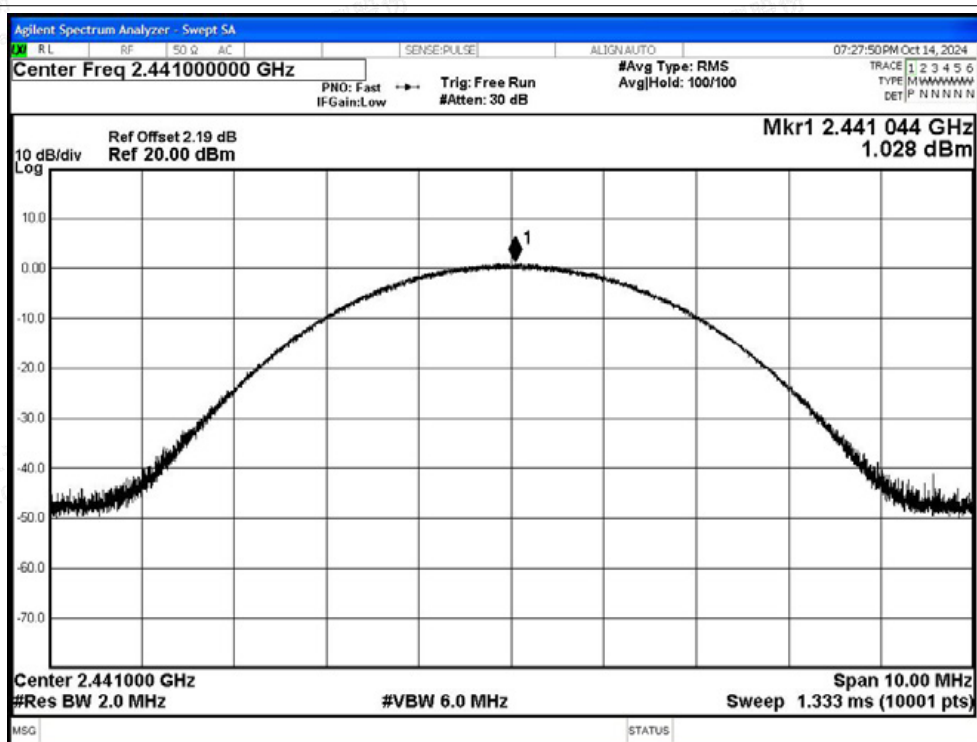




Power NVNT 3-DH5 2402MHz Ant0

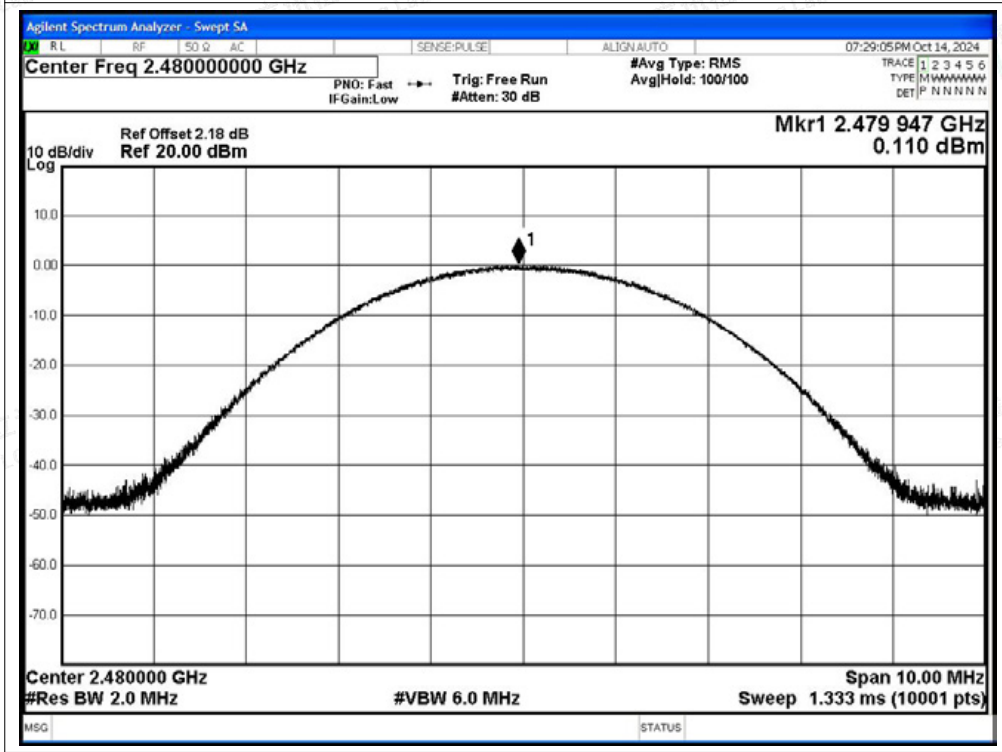


Power NVNT 3-DH5 2441MHz Ant0





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	2402.028	2402.972	0.944	0.648	Pass
NVNT	2-DH5	Ant0	2402.022	2403.036	1.014	0.867	Pass
NVNT	3-DH5	Ant0	2402.024	2403	0.976	0.873	Pass

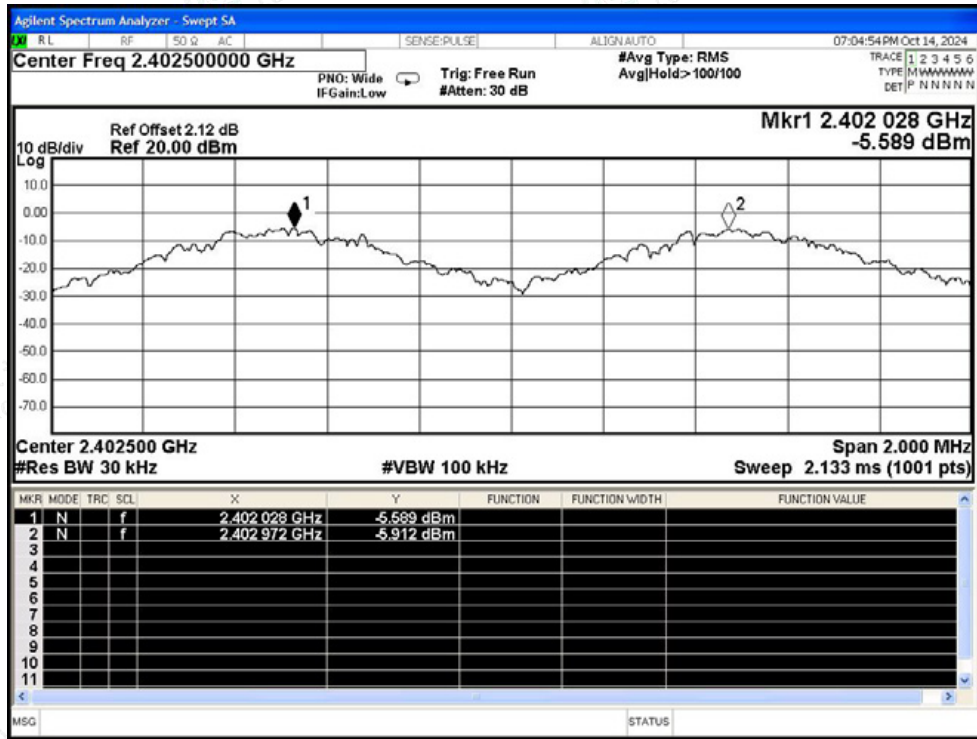


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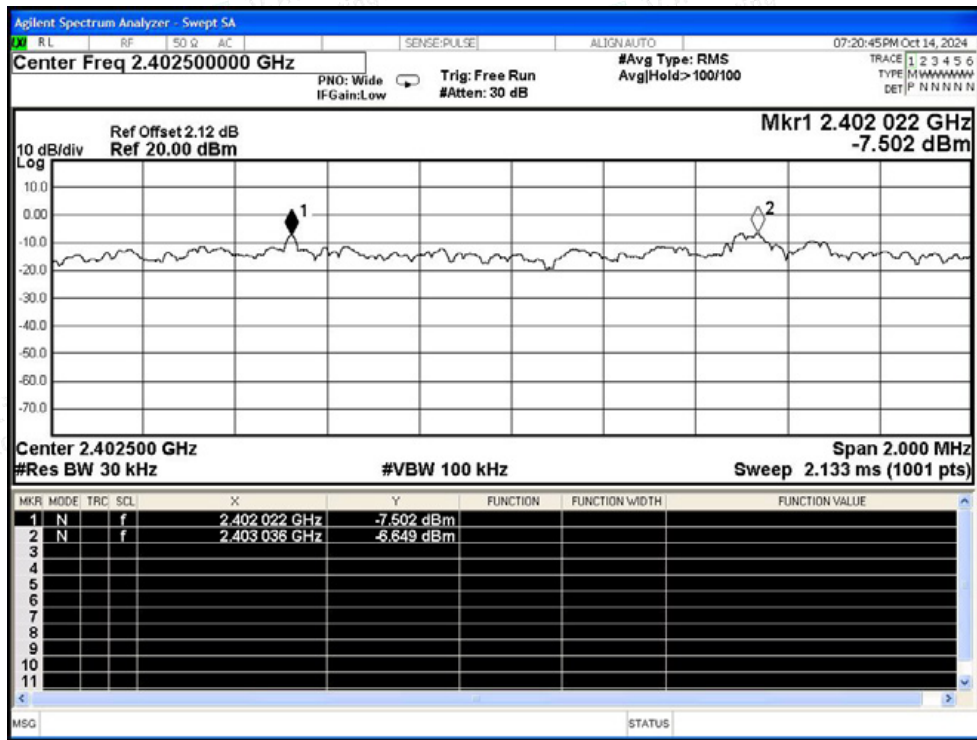


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant0

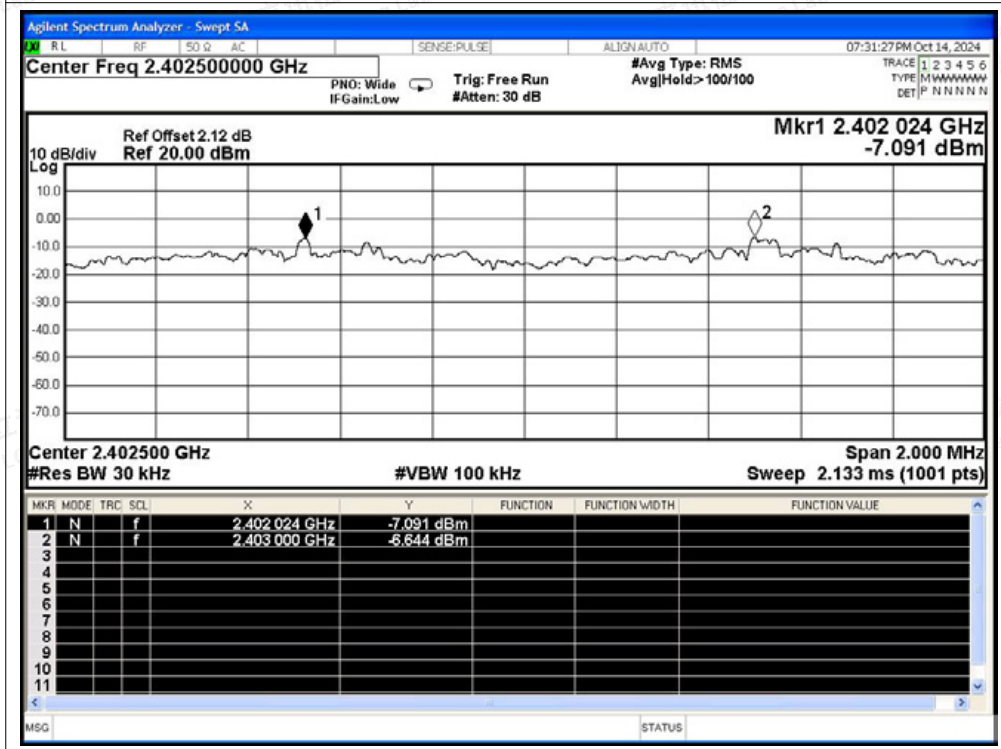


CFS NVNT 2-DH5 2402MHz Ant0





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	281.009	97	31600	400	Pass

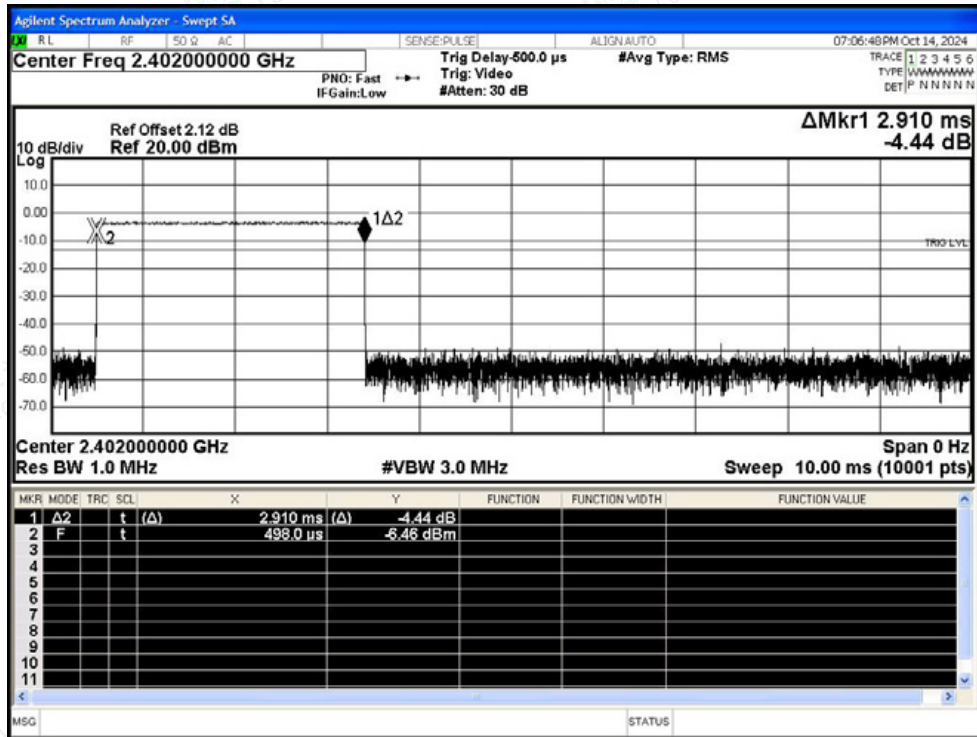


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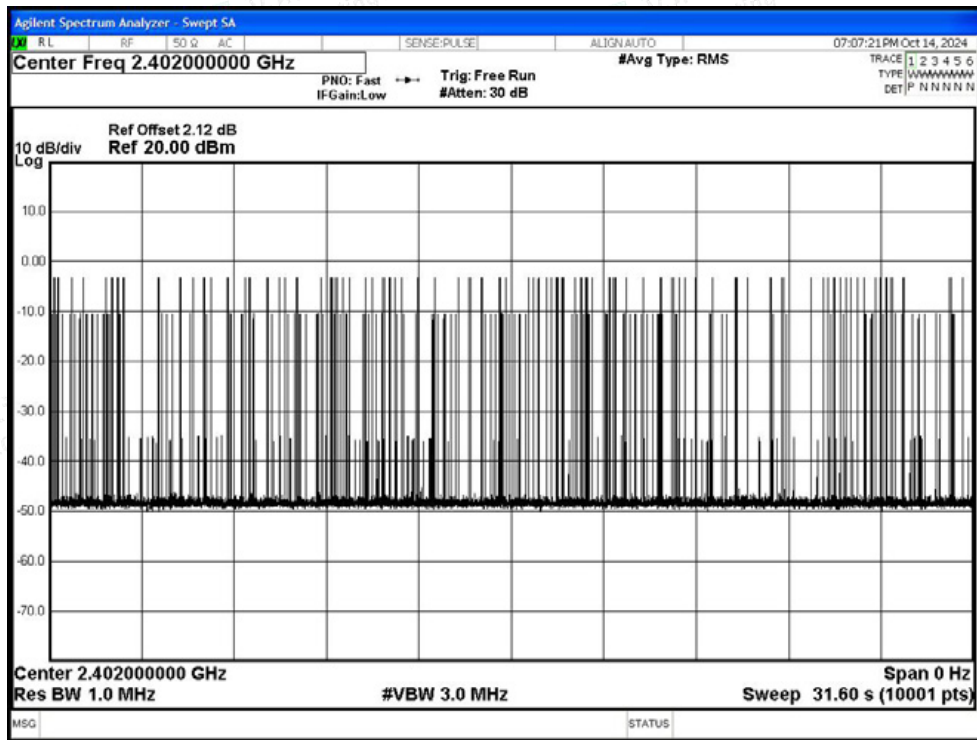


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant0 One Burst

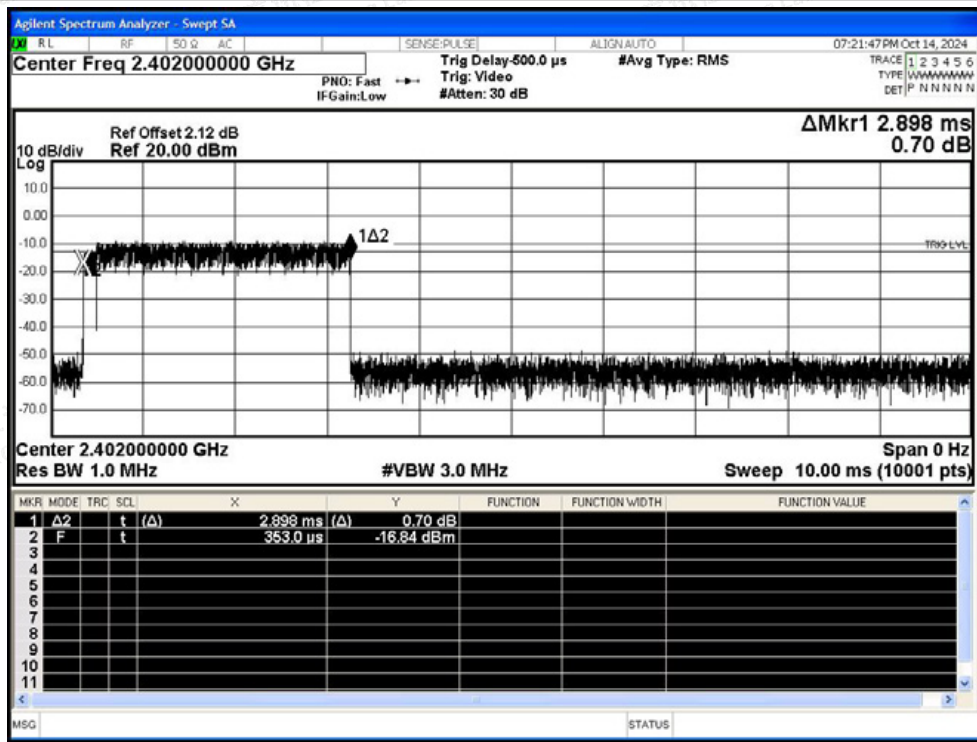


Dwell NVNT 1-DH5 2402MHz Ant0 Accumulated

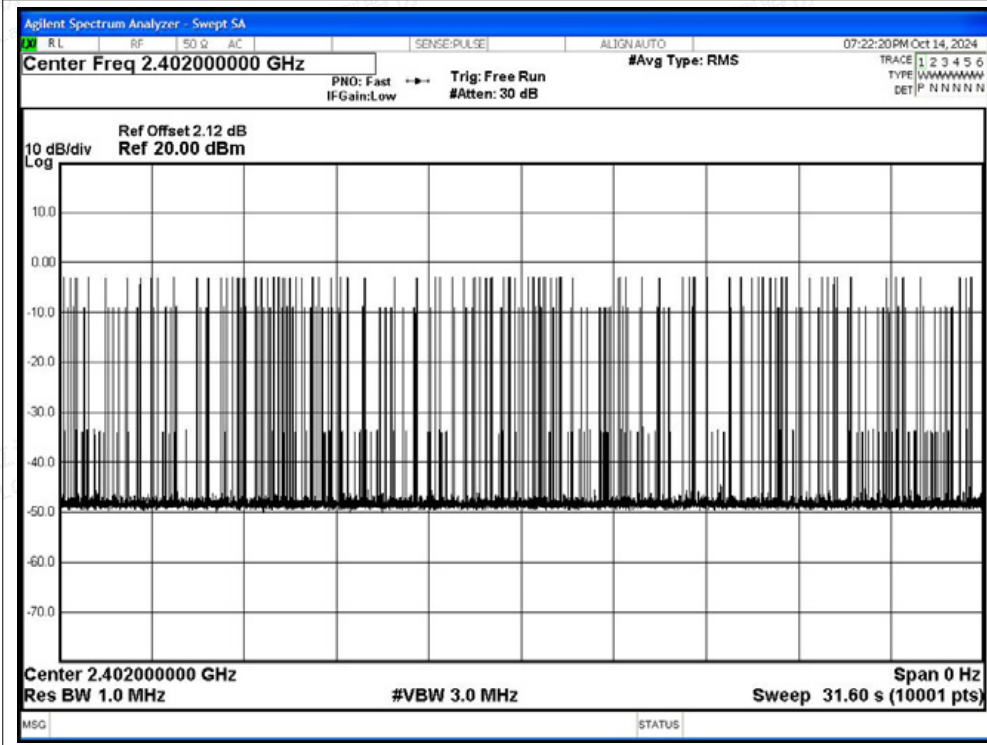




Dwell NVNT 2-DH5 2402MHz Ant0 One Burst

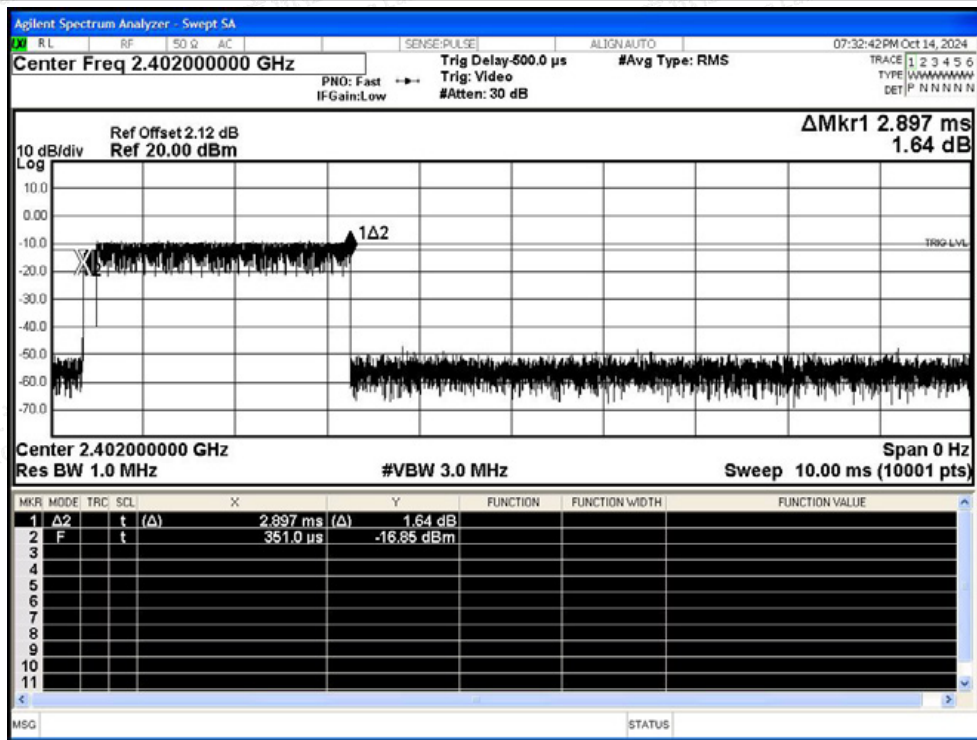


Dwell NVNT 2-DH5 2402MHz Ant0 Accumulated

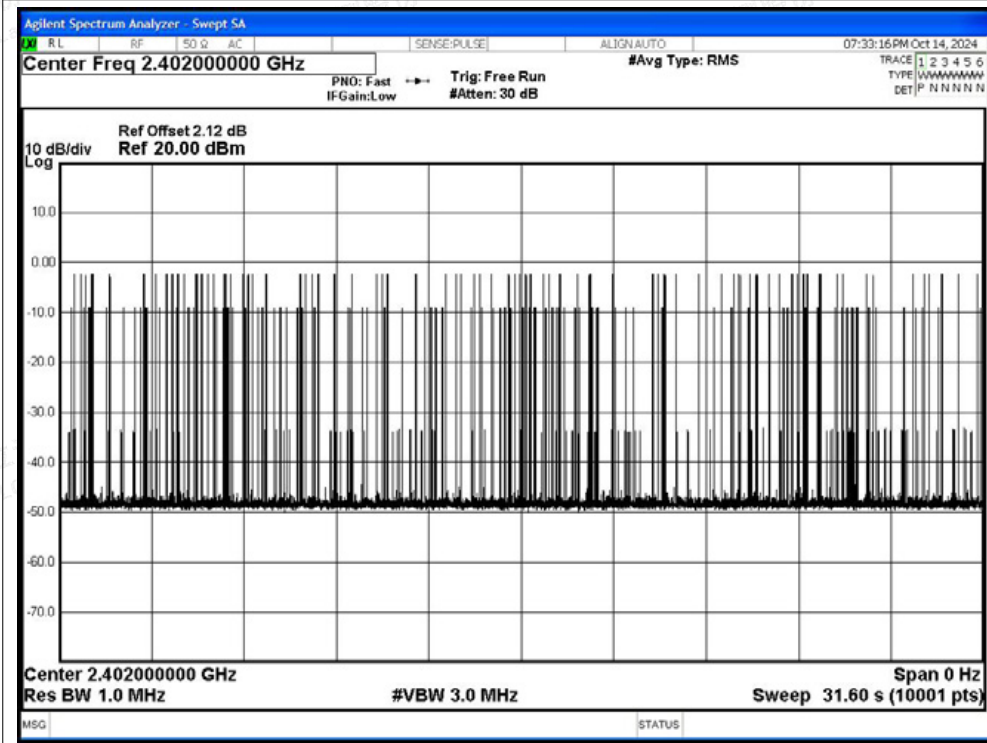




Dwell NVNT 3-DH5 2402MHz Ant0 One Burst



Dwell NVNT 3-DH5 2402MHz Ant0 Accumulated





A.5 Number of Hopping Channel

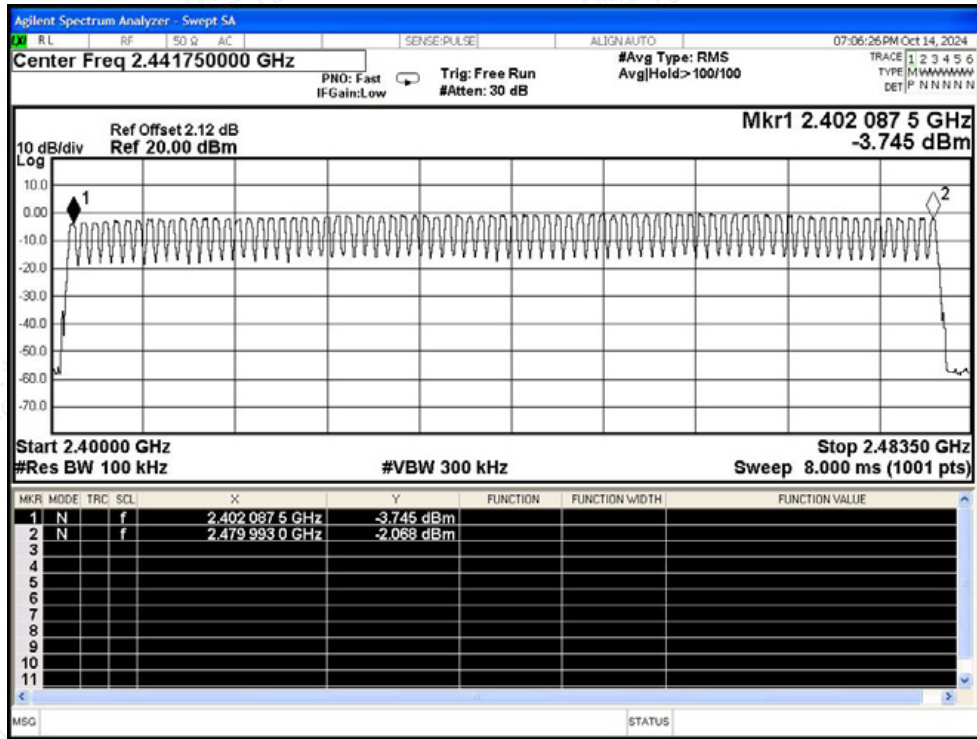
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant0	79	15	Pass
NVNT	2-DH5	Ant0	79	15	Pass
NVNT	3-DH5	Ant0	79	15	Pass



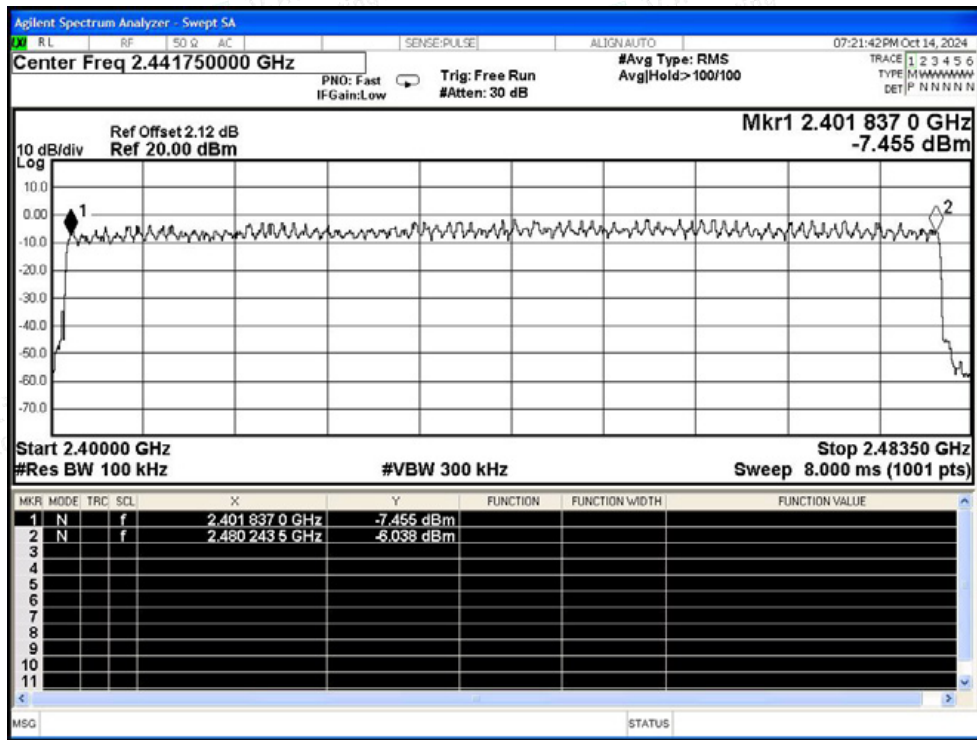


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant0

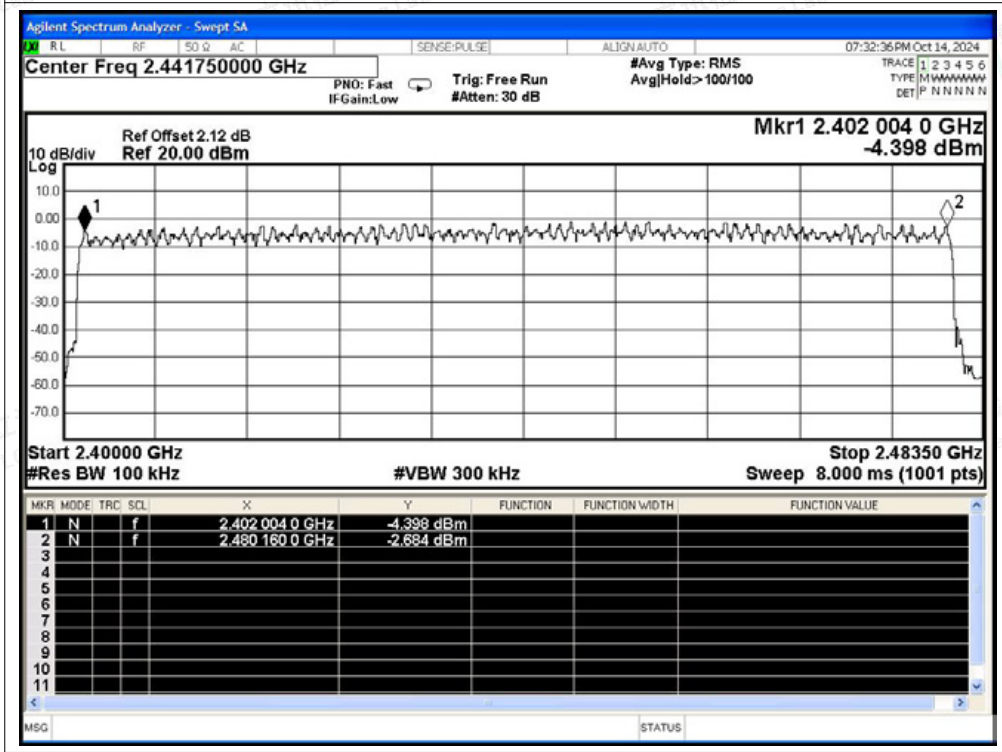


Hopping No. NVNT 2-DH5 2402MHz Ant0





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	-56.97	-20	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	-54.23	-20	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	-52.28	-20	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	-54.26	-20	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	-50.4	-20	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	-53.1	-20	Pass

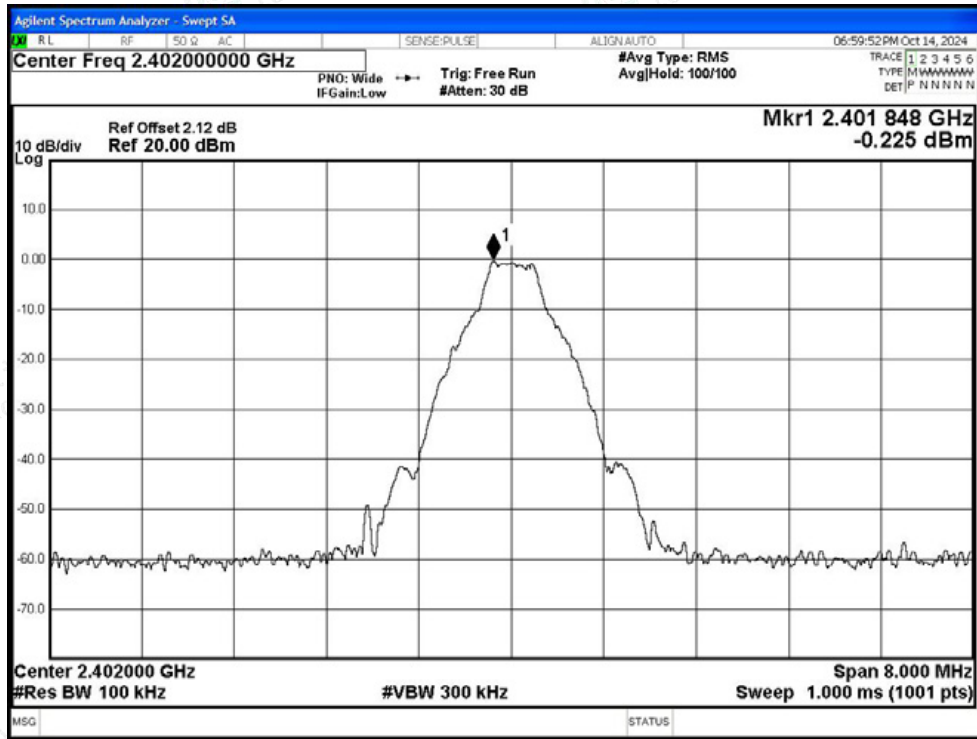


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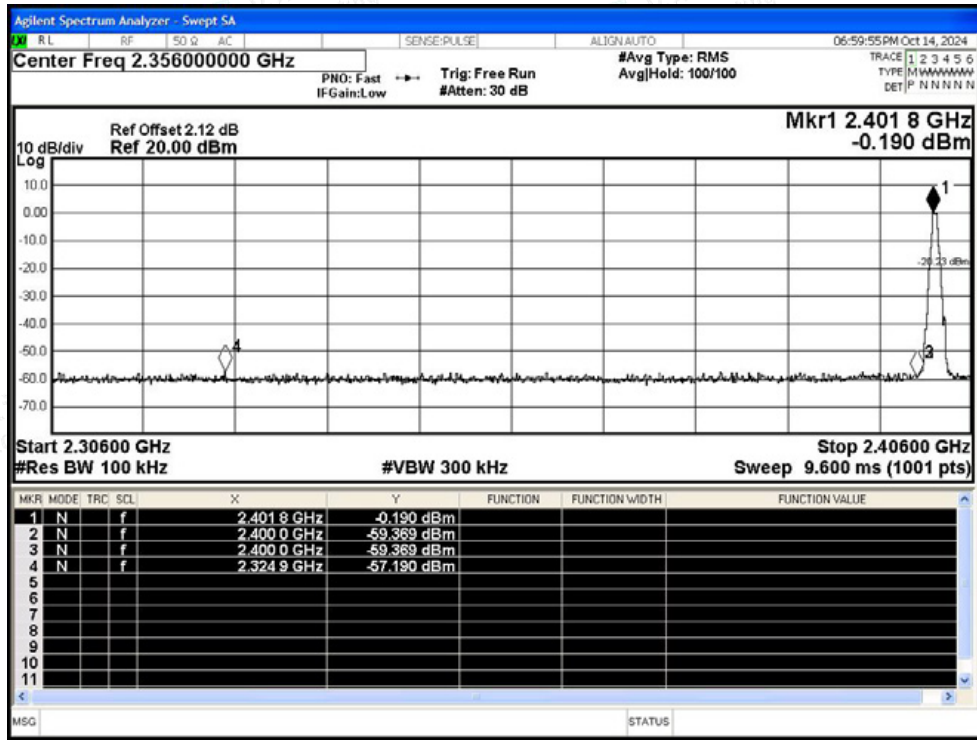


Test Graphs

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

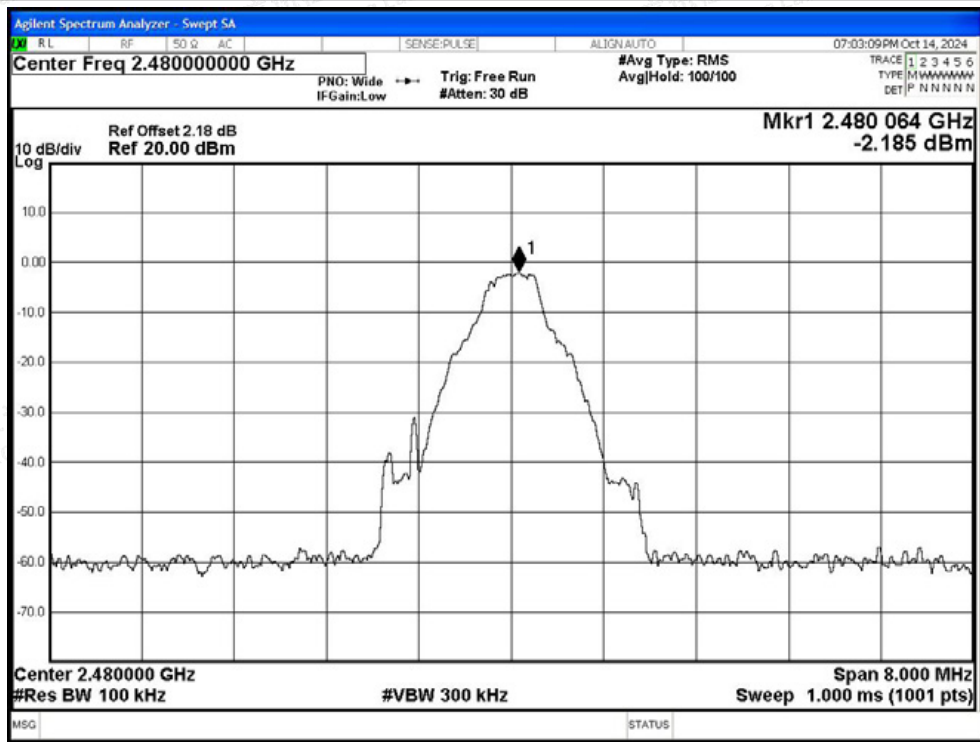


Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Emission

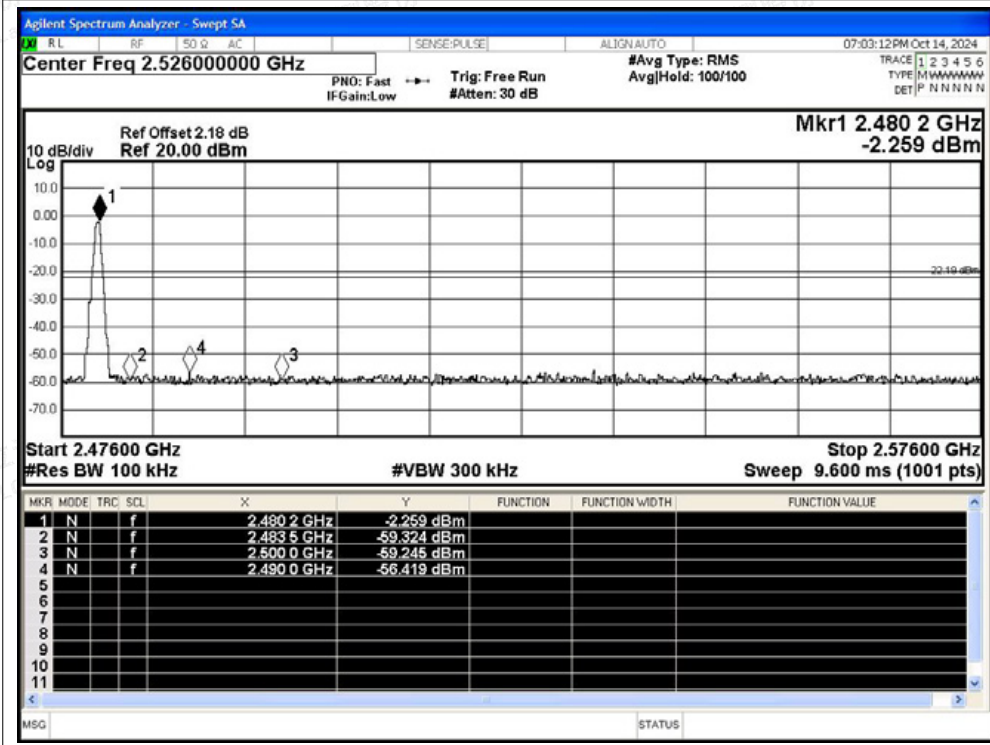




Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Ref

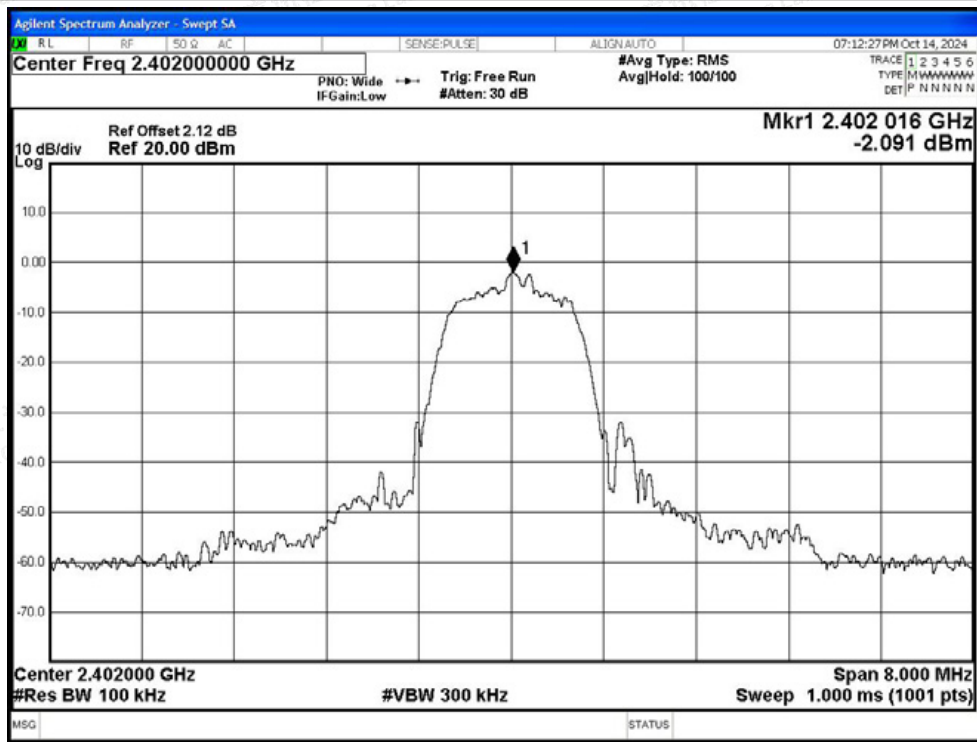


Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Emission

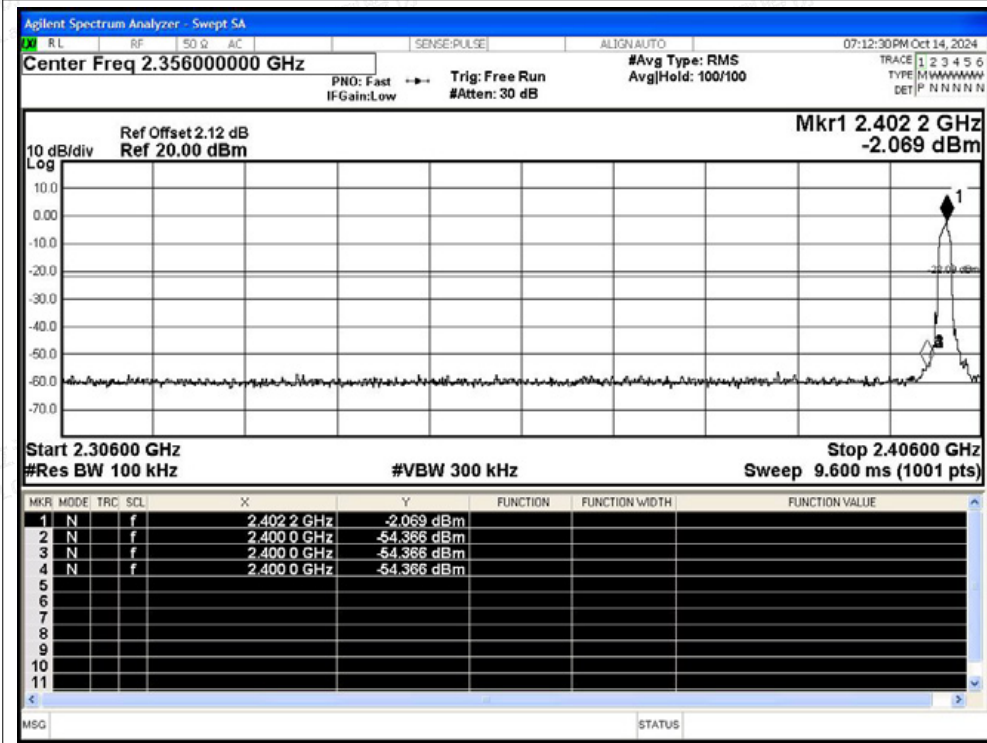




Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Ref

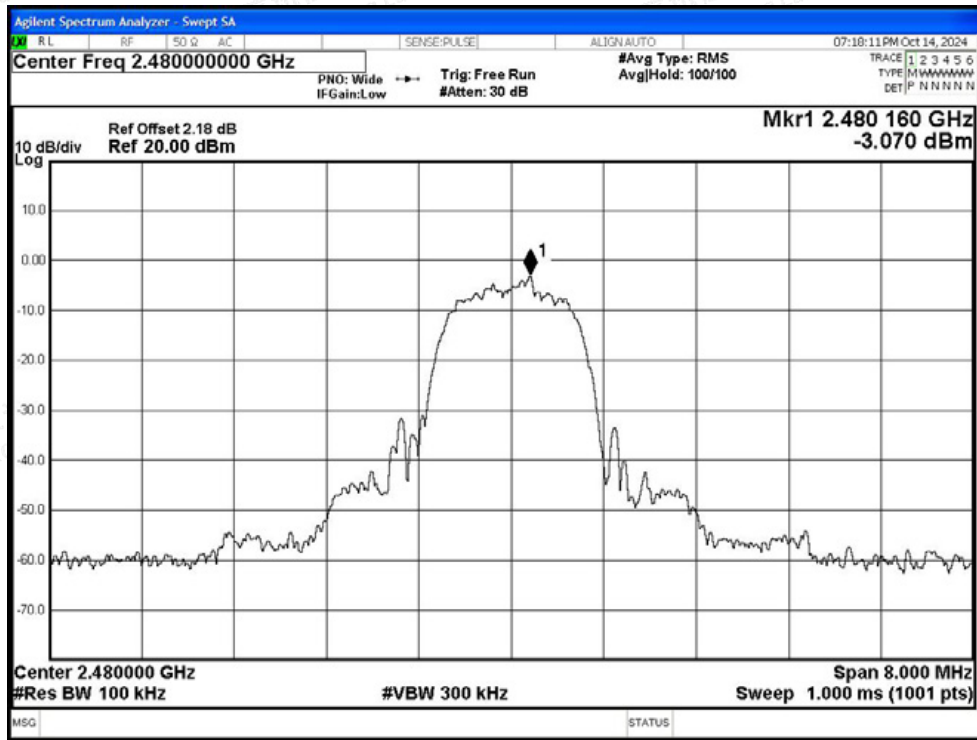


Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Emission

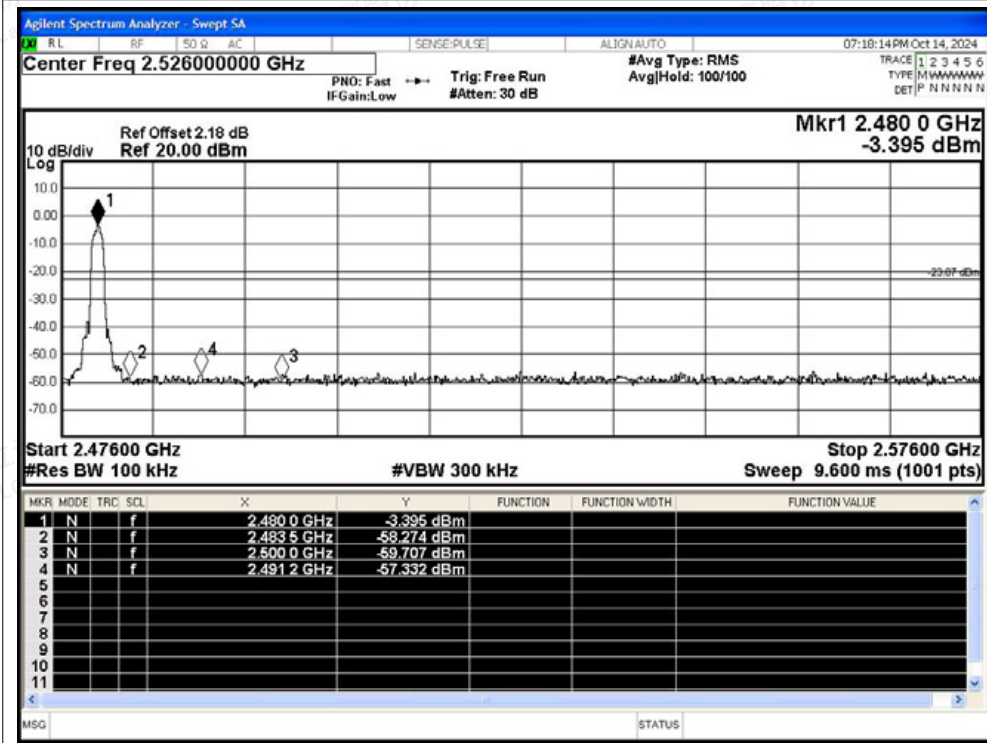




Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Ref

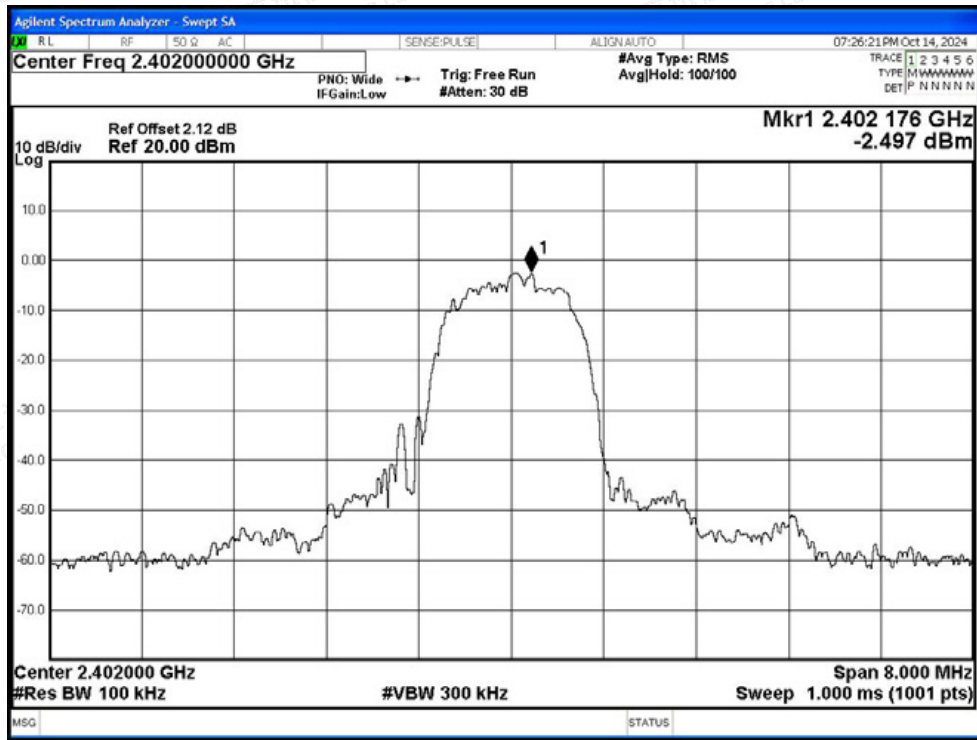


Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Emission

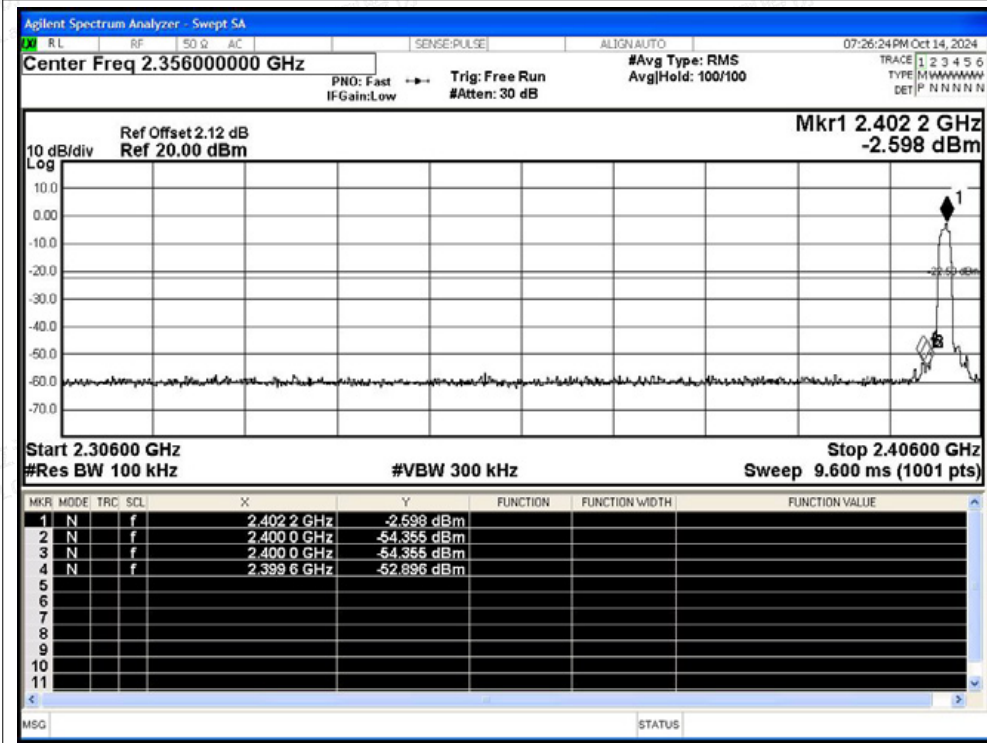




Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Ref

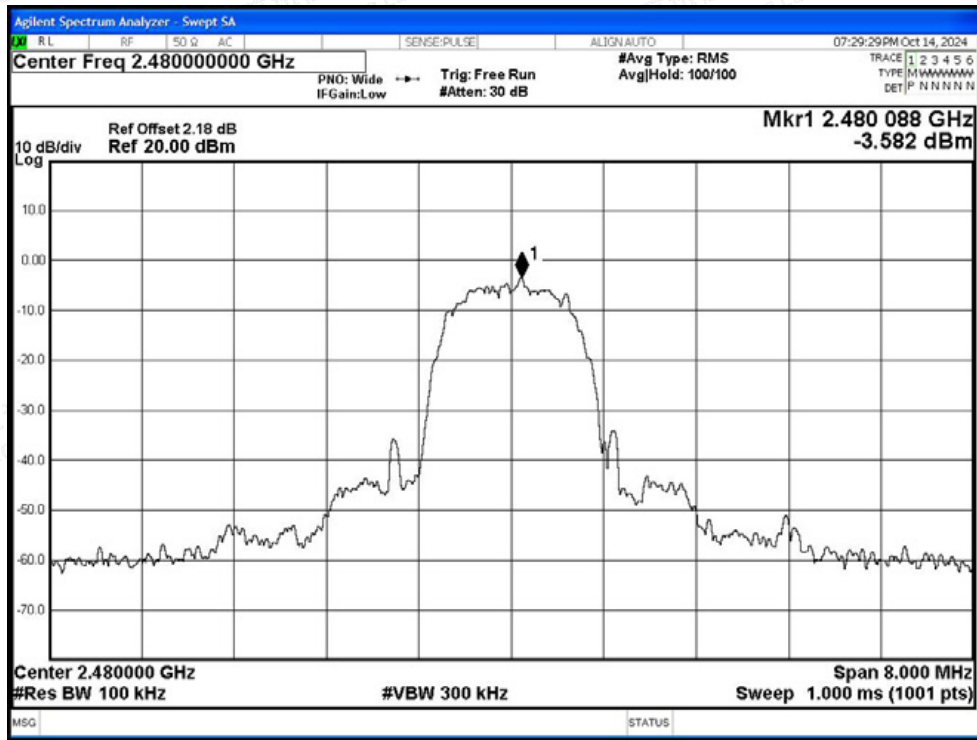


Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Emission

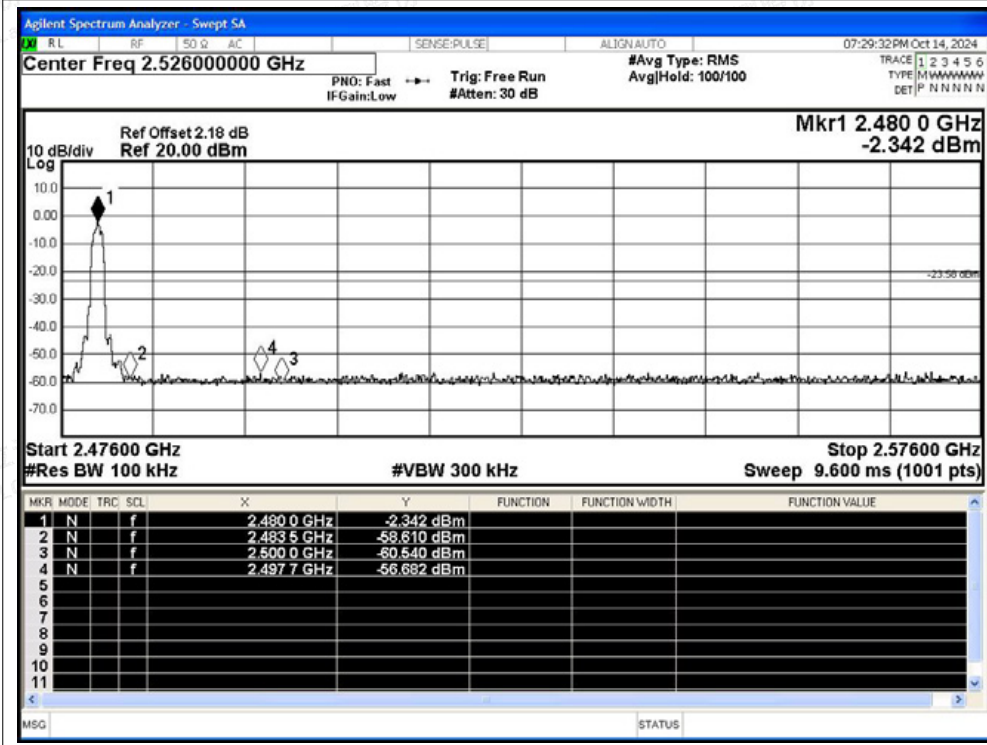




Band Edge NVNT 3-DH5 2480MHz Ant0 No-Hopping Ref



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





(Hopping)

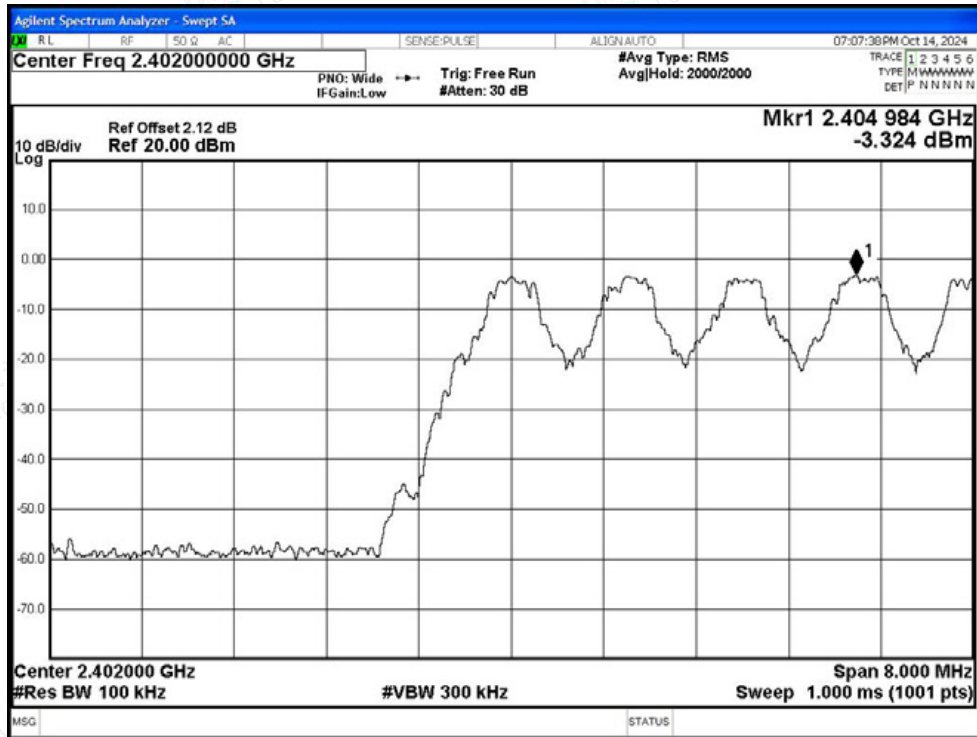
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	Hopping	-52.25	-20	Pass
NVNT	1-DH5	2480	Ant0	Hopping	-52.6	-20	Pass
NVNT	2-DH5	2402	Ant0	Hopping	-51.29	-20	Pass
NVNT	2-DH5	2480	Ant0	Hopping	-53.29	-20	Pass
NVNT	3-DH5	2402	Ant0	Hopping	-51.48	-20	Pass
NVNT	3-DH5	2480	Ant0	Hopping	-54.07	-20	Pass



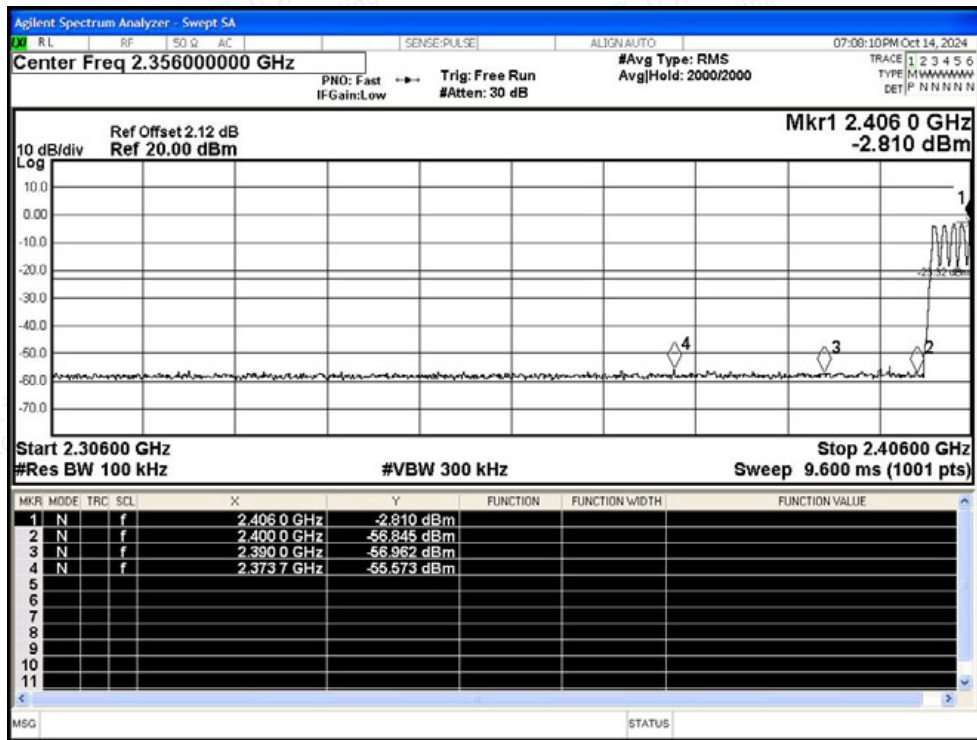


Test Graphs

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

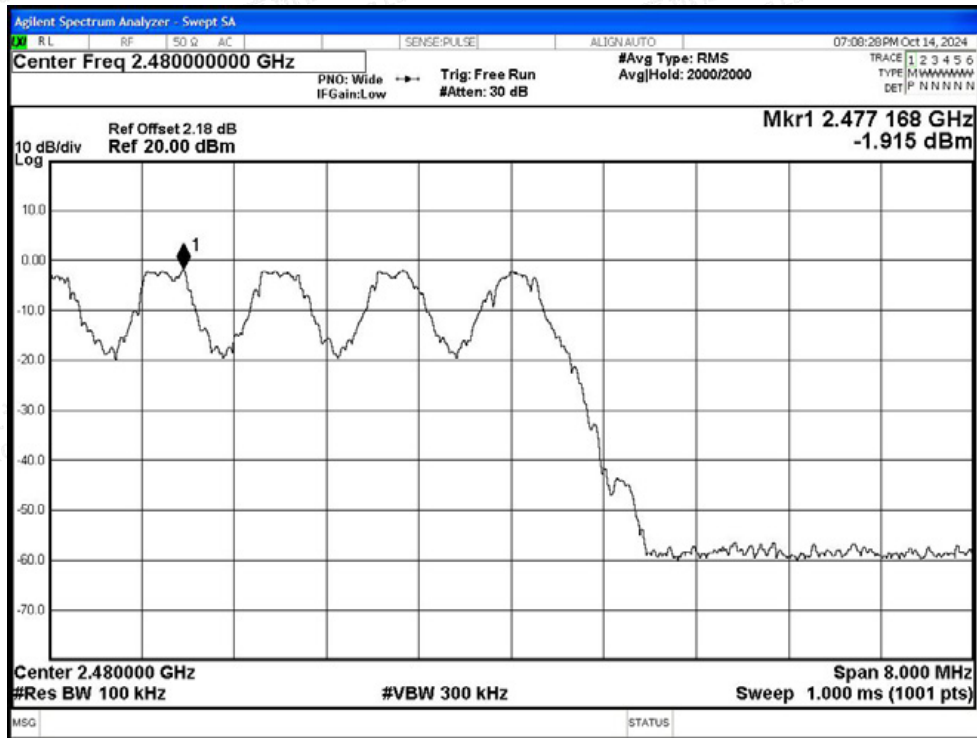


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Emission

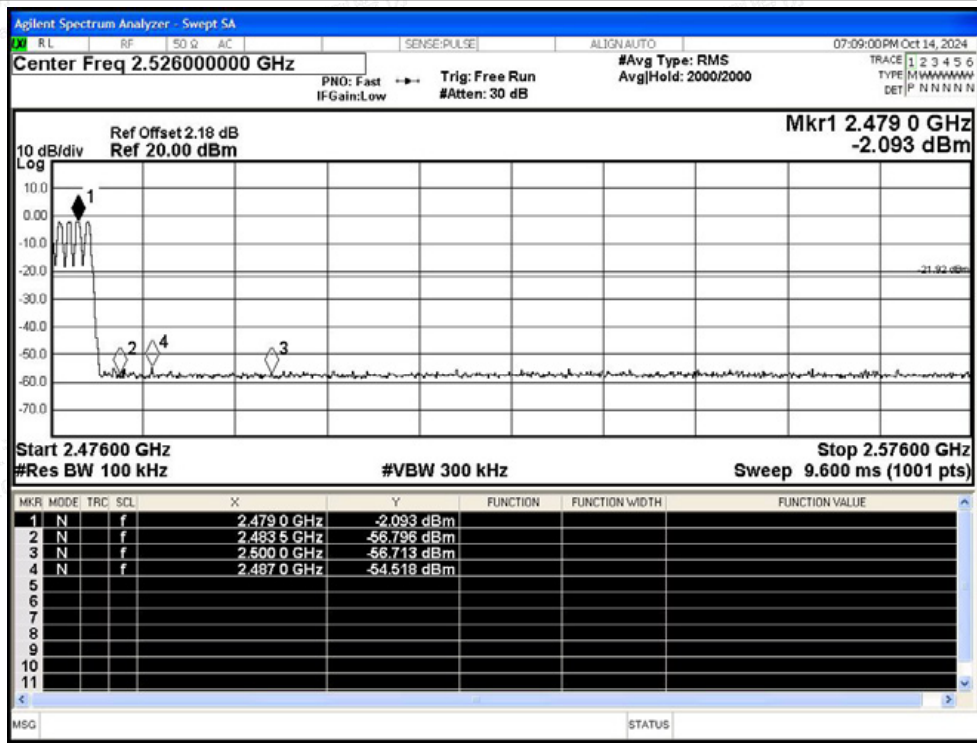




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant0 Hopping Ref

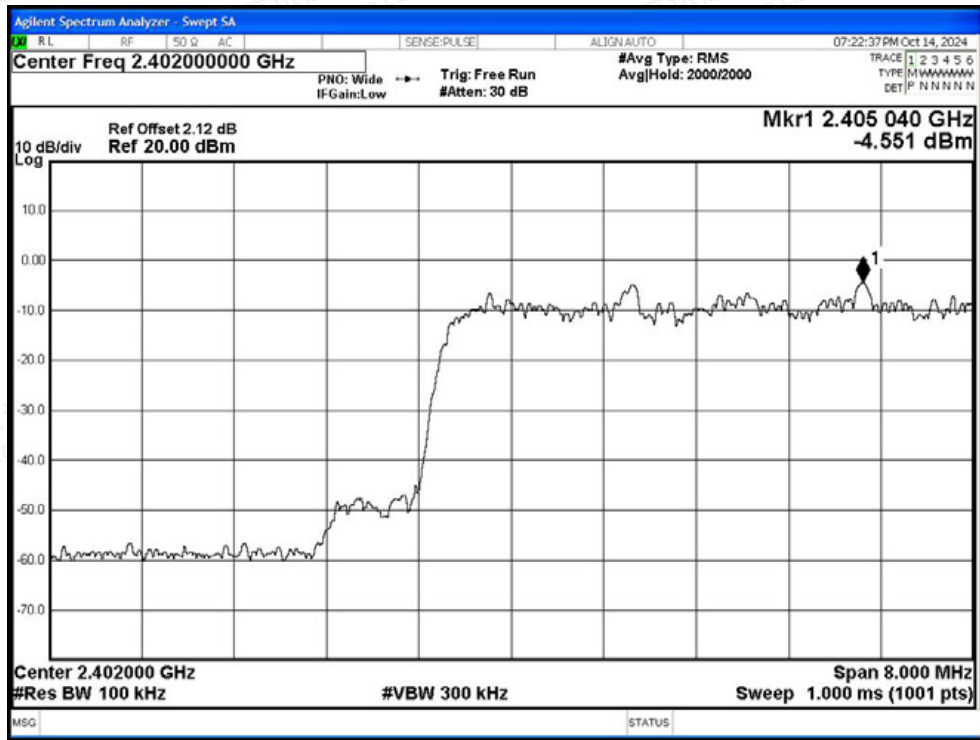


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant0 Hopping Emission

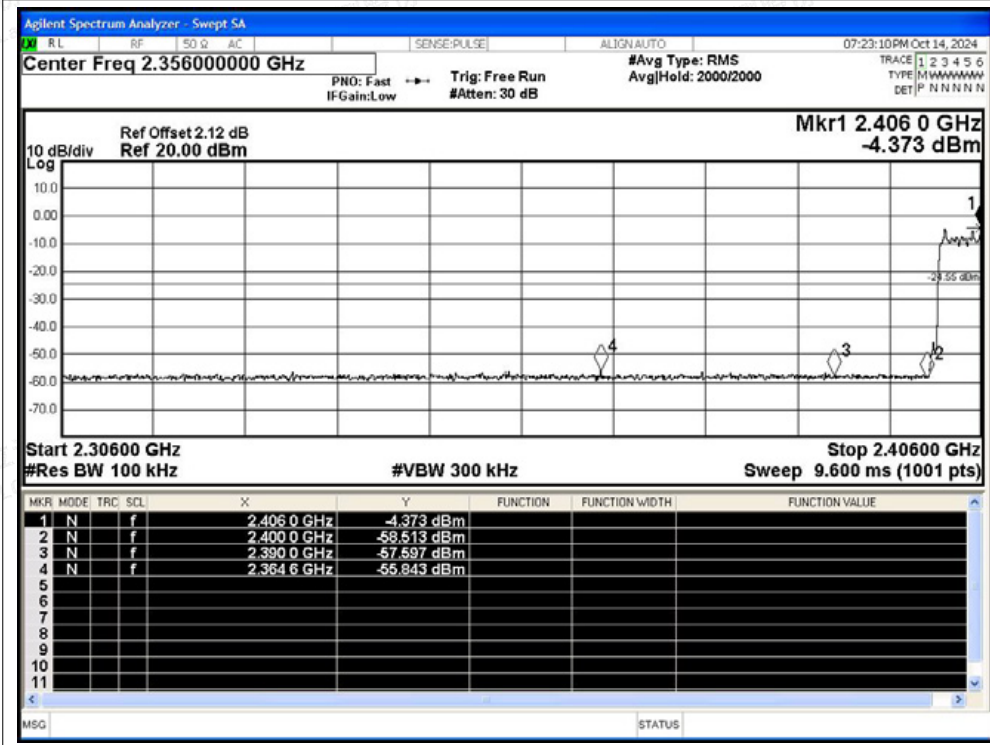




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant0 Hopping Ref

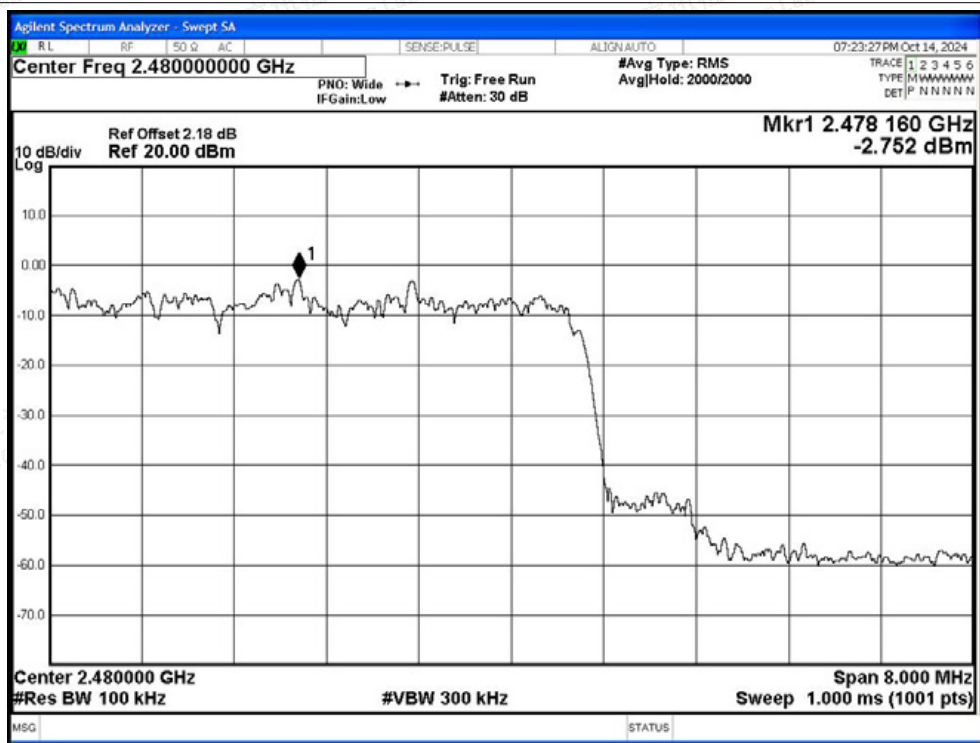


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant0 Hopping Emission

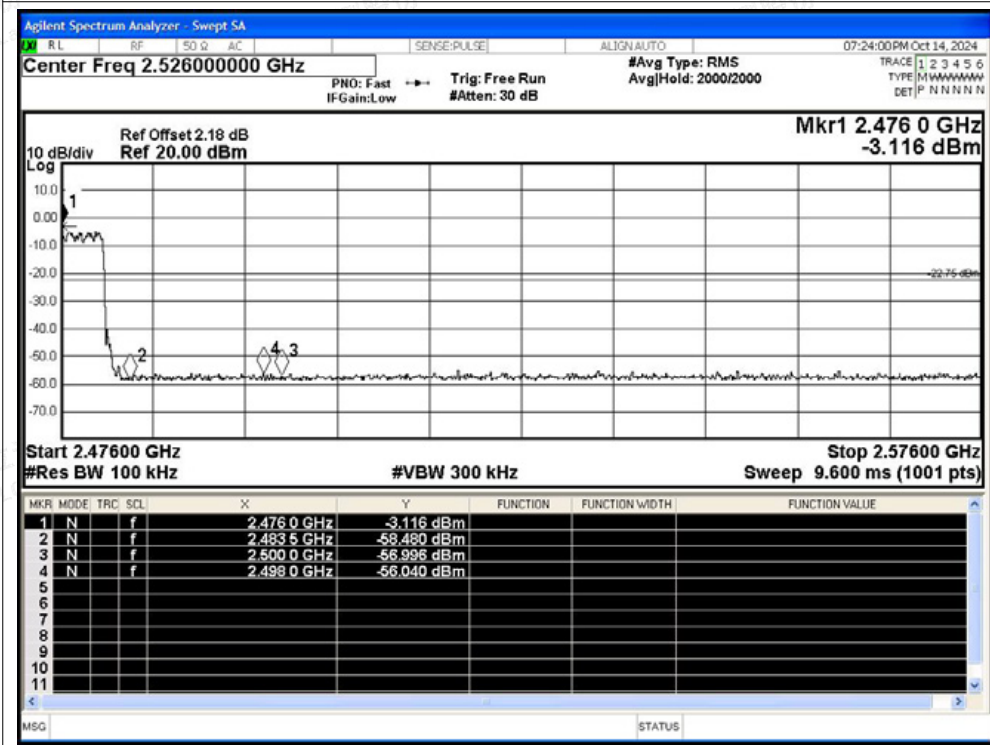




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant0 Hopping Ref

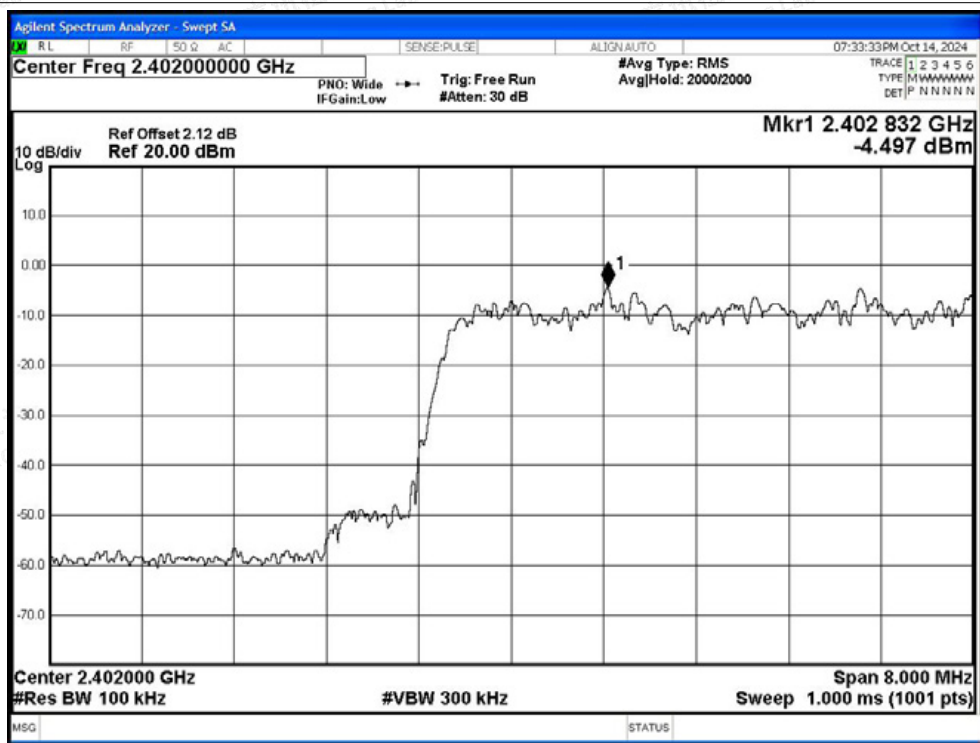


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant0 Hopping Emission

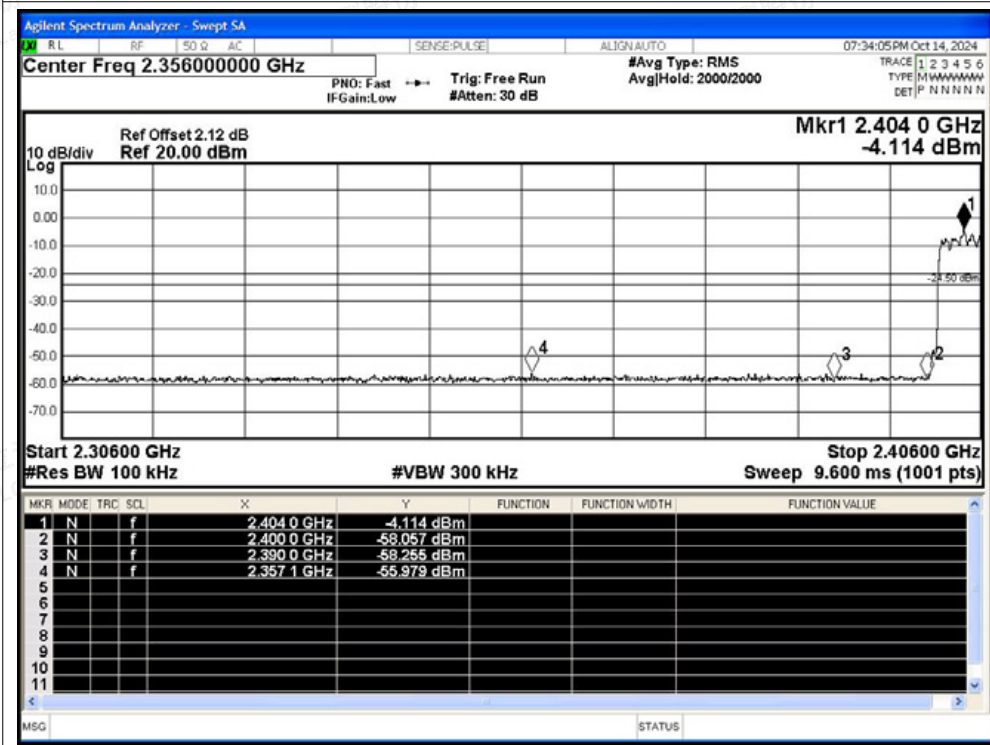




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant0 Hopping Ref

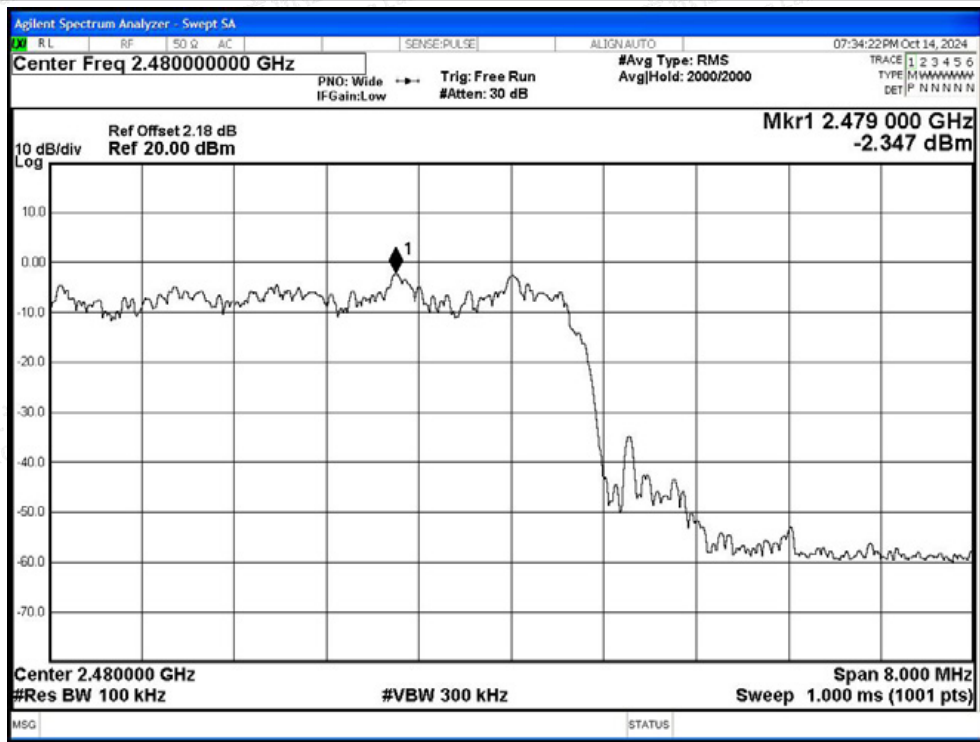


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant0 Hopping Emission

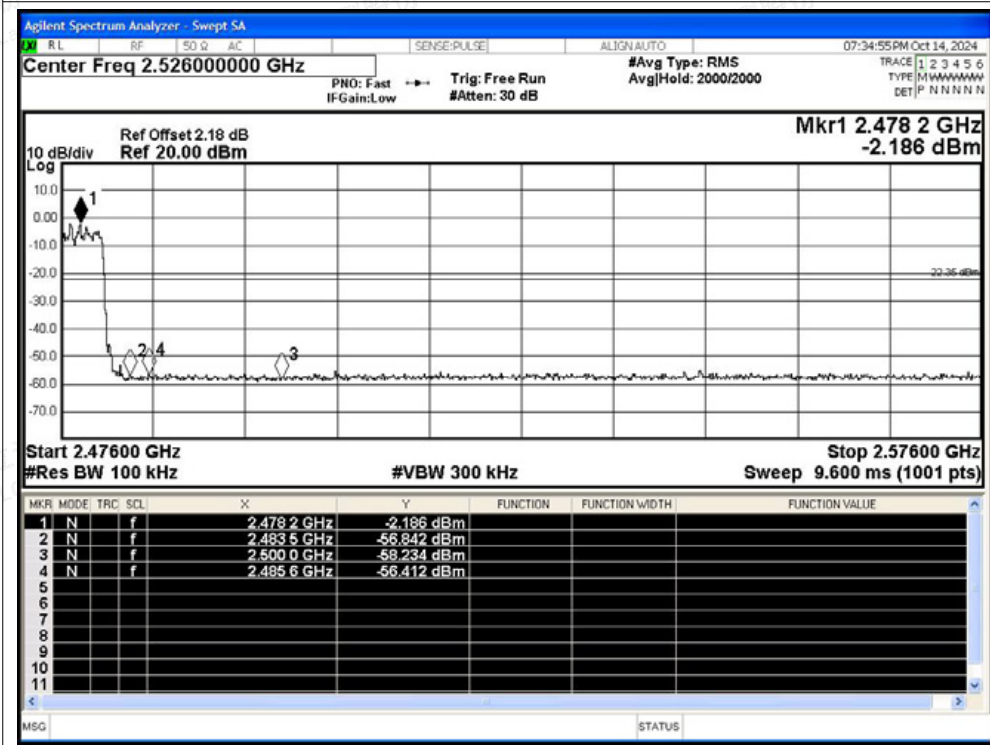




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant0 Hopping Ref



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	-55.13	-20	Pass
NVNT	1-DH5	2441	Ant0	-54.84	-20	Pass
NVNT	1-DH5	2480	Ant0	-53.76	-20	Pass
NVNT	2-DH5	2402	Ant0	-52.46	-20	Pass
NVNT	2-DH5	2441	Ant0	-52.6	-20	Pass
NVNT	2-DH5	2480	Ant0	-52.44	-20	Pass
NVNT	3-DH5	2402	Ant0	-53.83	-20	Pass
NVNT	3-DH5	2441	Ant0	-53.74	-20	Pass
NVNT	3-DH5	2480	Ant0	-52.74	-20	Pass



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