



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: smart watch

Test Model: TB39

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
	<i>Nick Peng</i>
Supervised by:	Ling Zhu
	<i>Ling Zhu</i>



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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	Ant1	0.813	0	Pass
NVNT	1-DH5	2441	Ant1	0.833	0	Pass
NVNT	1-DH5	2480	Ant1	0.838	0	Pass
NVNT	2-DH5	2402	Ant1	1.276	0	Pass
NVNT	2-DH5	2441	Ant1	1.262	0	Pass
NVNT	2-DH5	2480	Ant1	1.283	0	Pass



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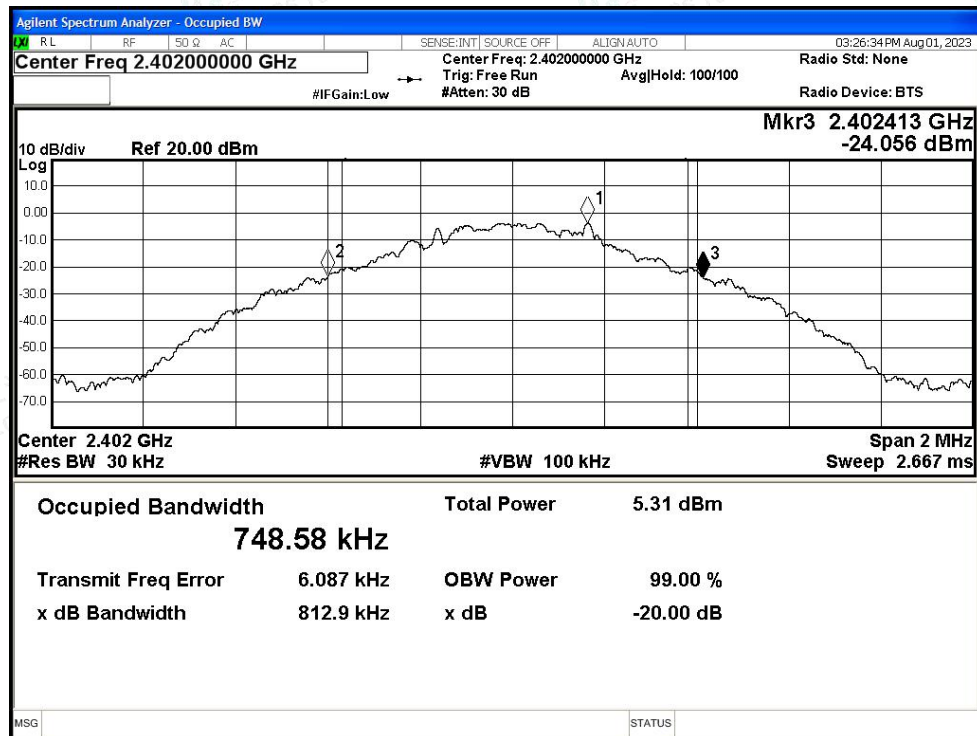
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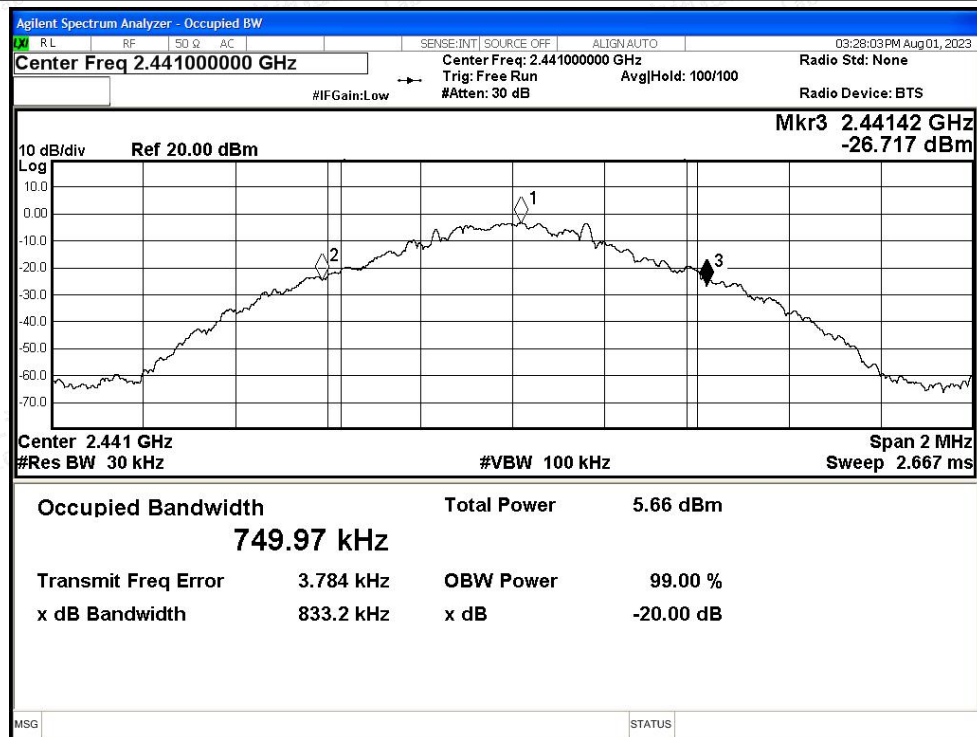


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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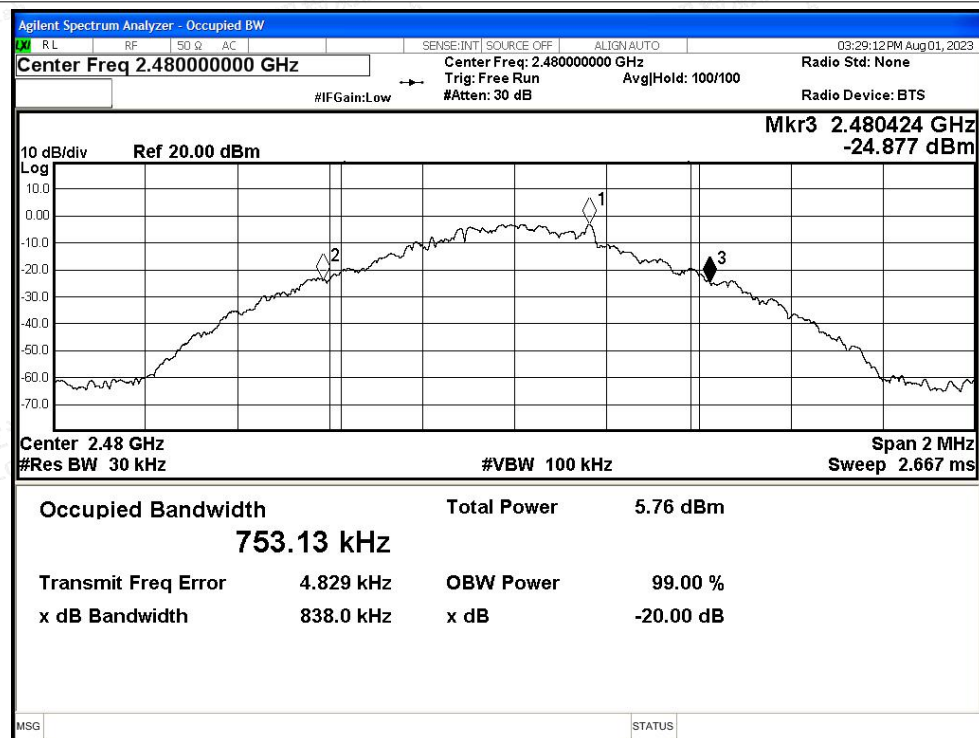
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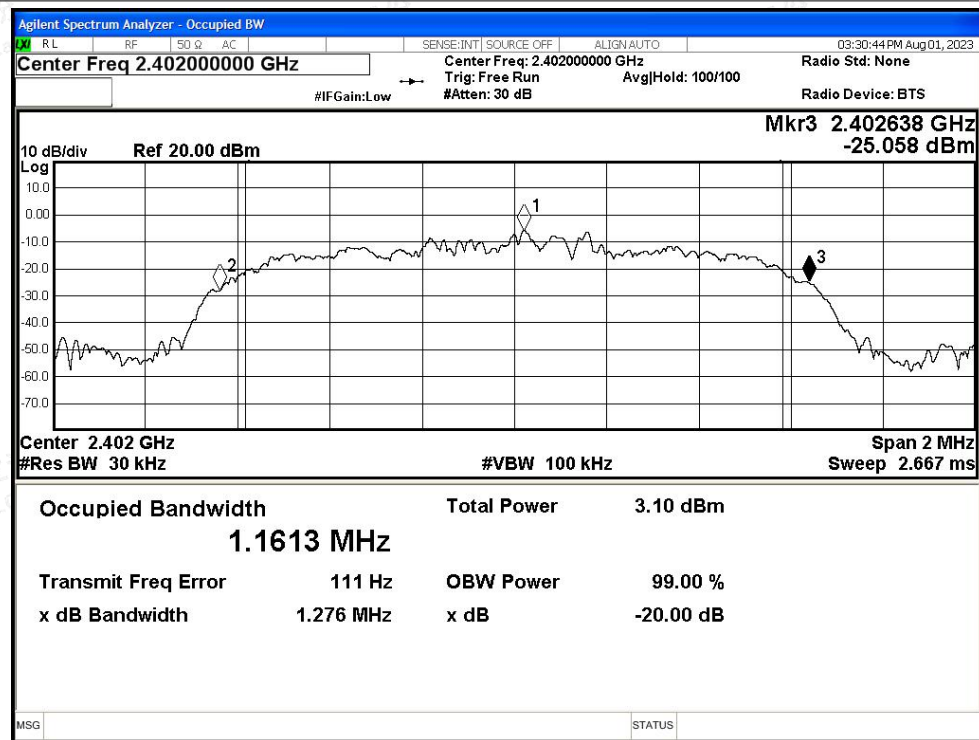
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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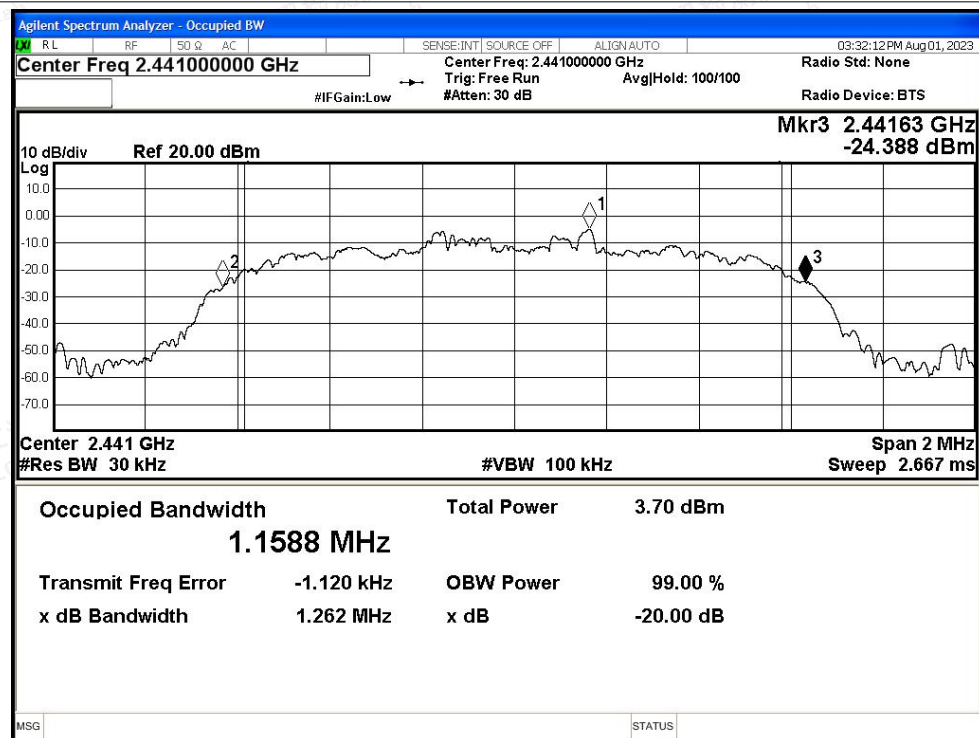
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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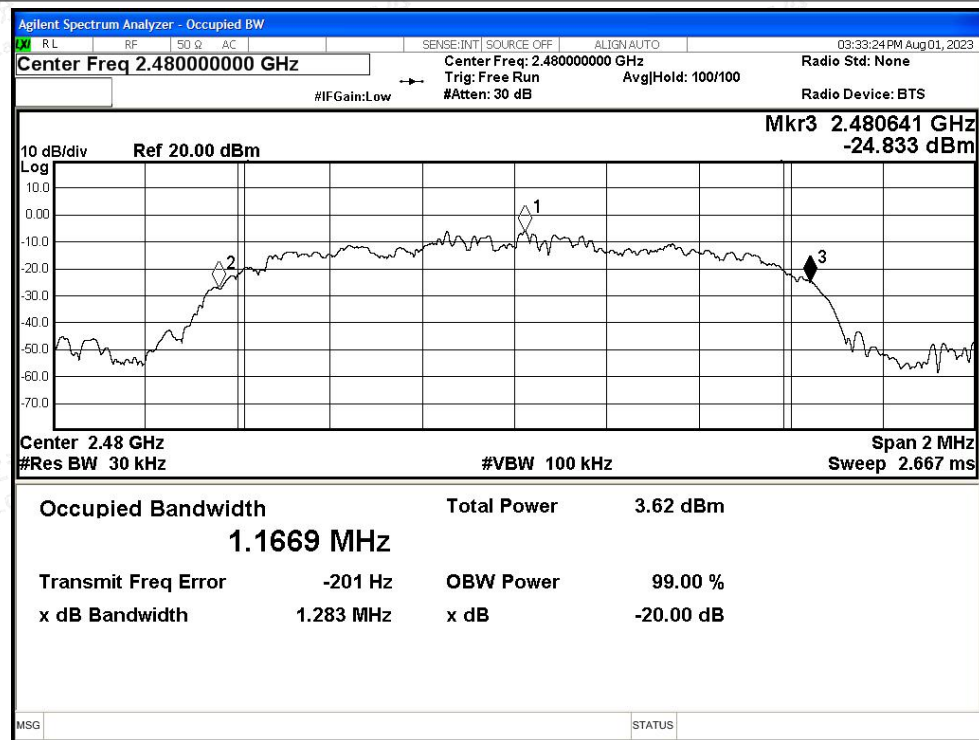
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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A.3 Maximum Conducted Output Power

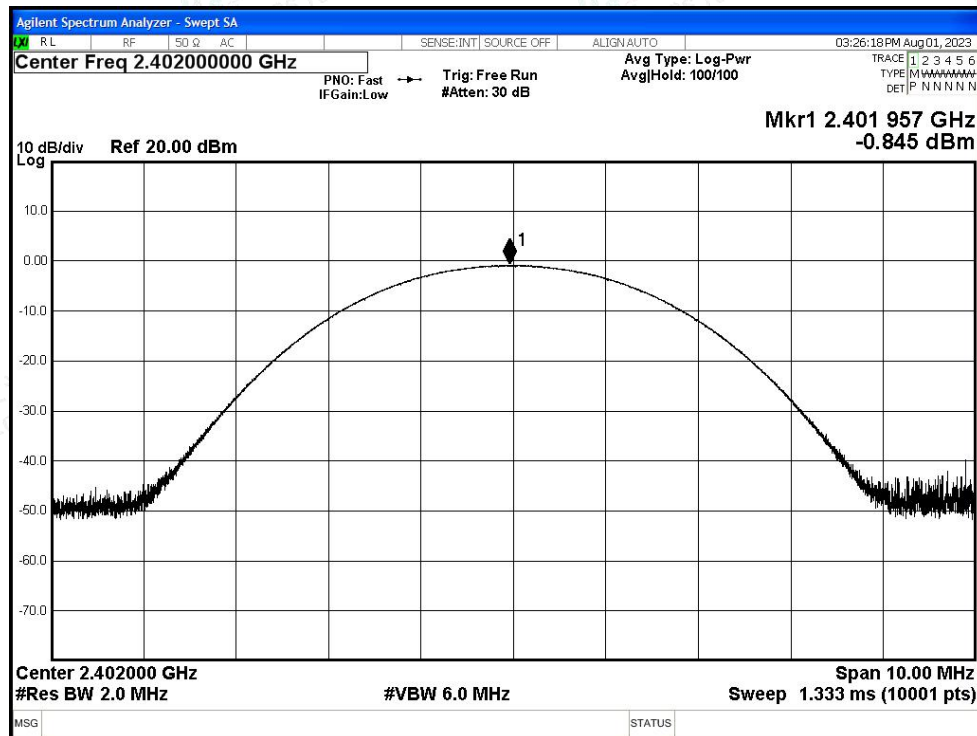
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.85	21	Pass
NVNT	1-DH5	2441	Ant1	-0.4	21	Pass
NVNT	1-DH5	2480	Ant1	-0.25	21	Pass
NVNT	2-DH5	2402	Ant1	-1.45	21	Pass
NVNT	2-DH5	2441	Ant1	-1	21	Pass
NVNT	2-DH5	2480	Ant1	-0.88	21	Pass



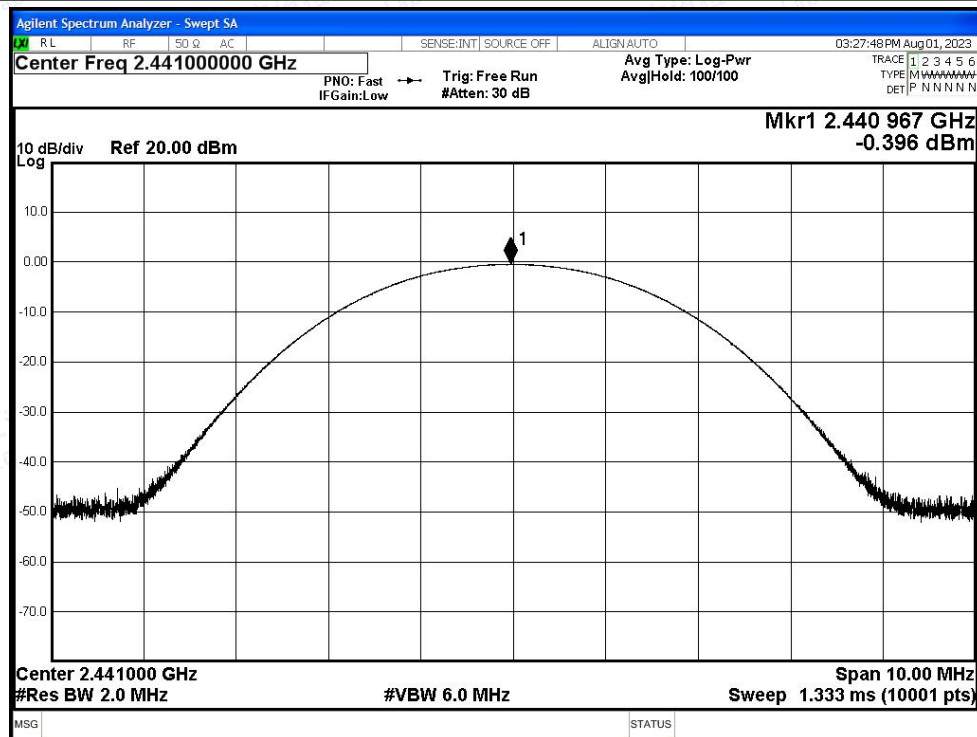


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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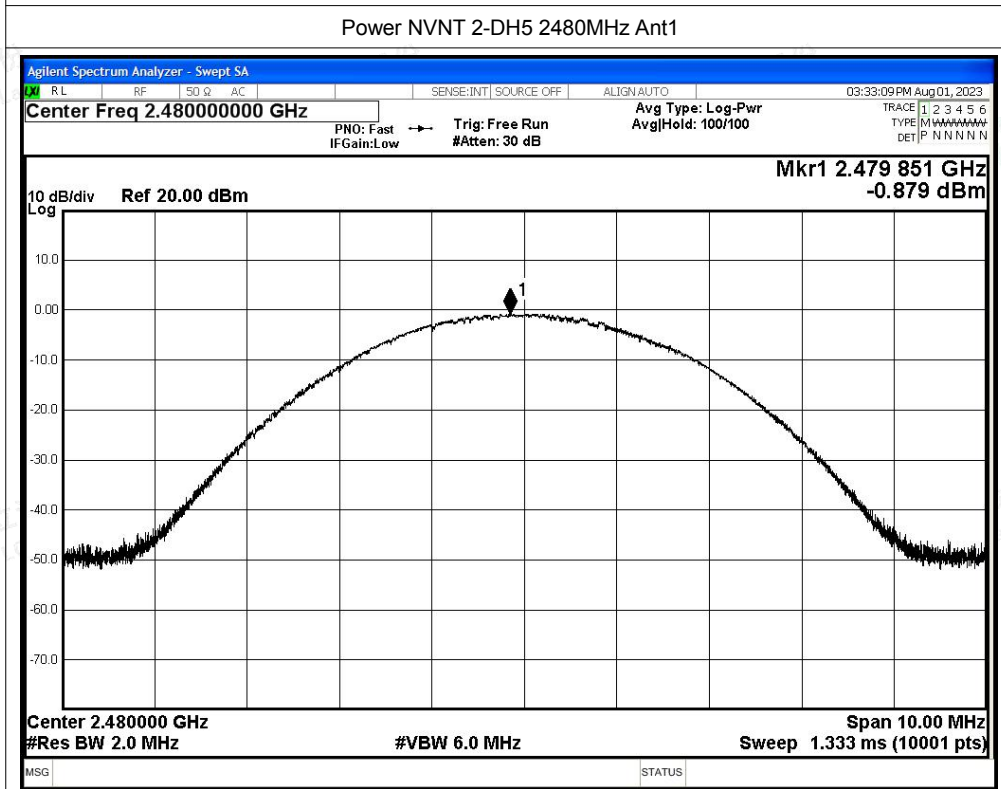
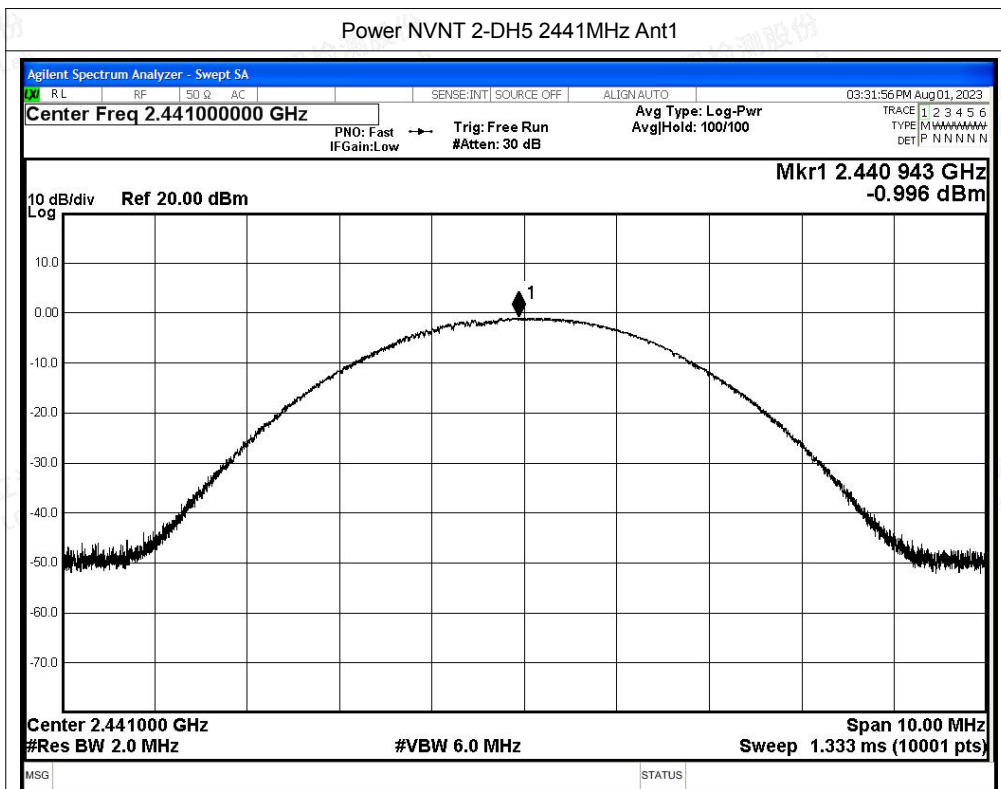
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A.4 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.014	2403.02	1.006	0.559	Pass
NVNT	2-DH5	Ant1	2401.826	2403.024	1.198	0.855	Pass



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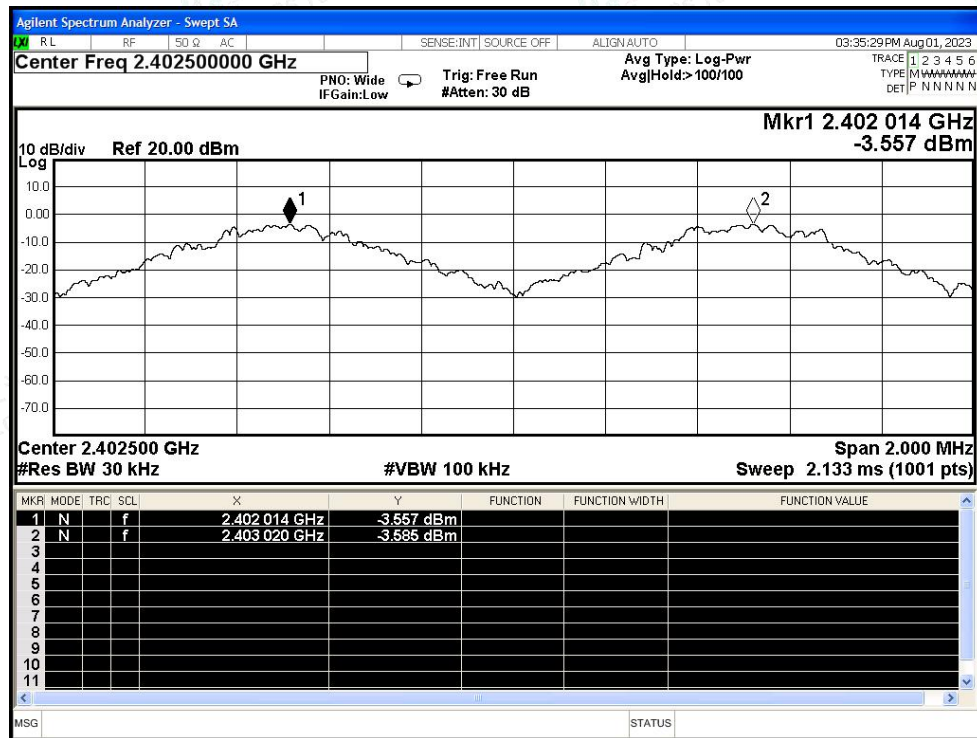
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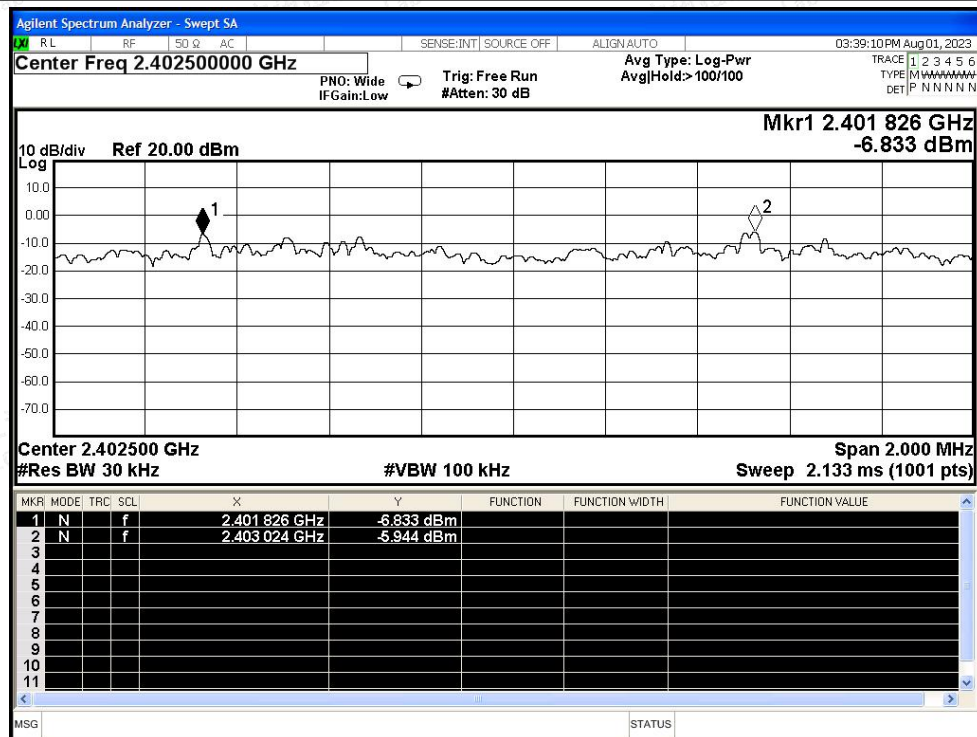


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



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A.6 Number of Hopping Channel

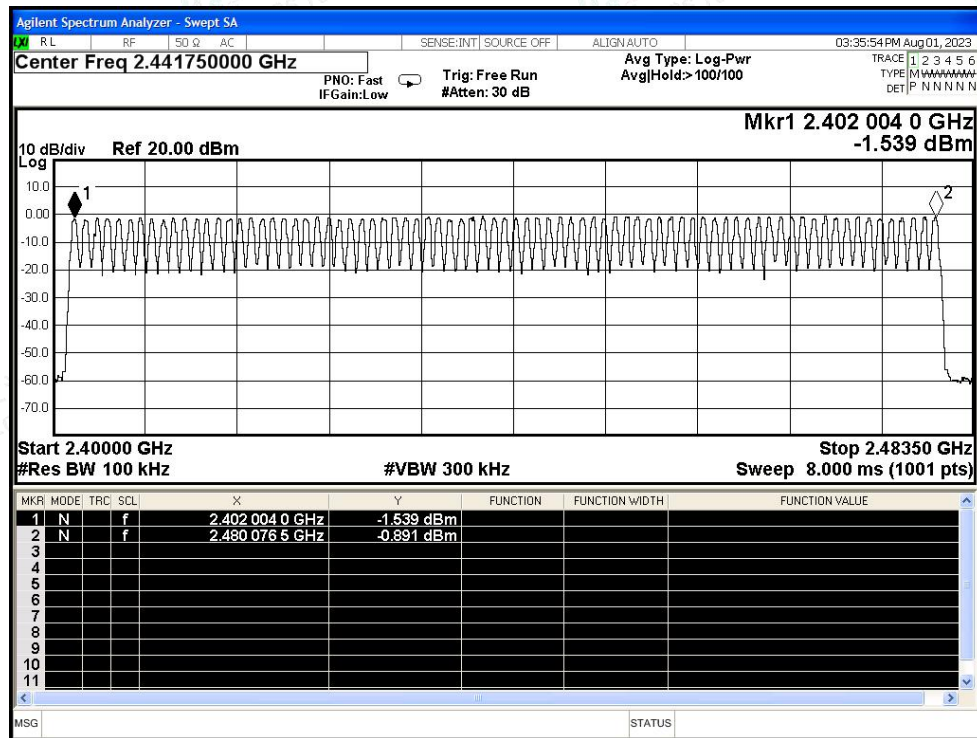
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass



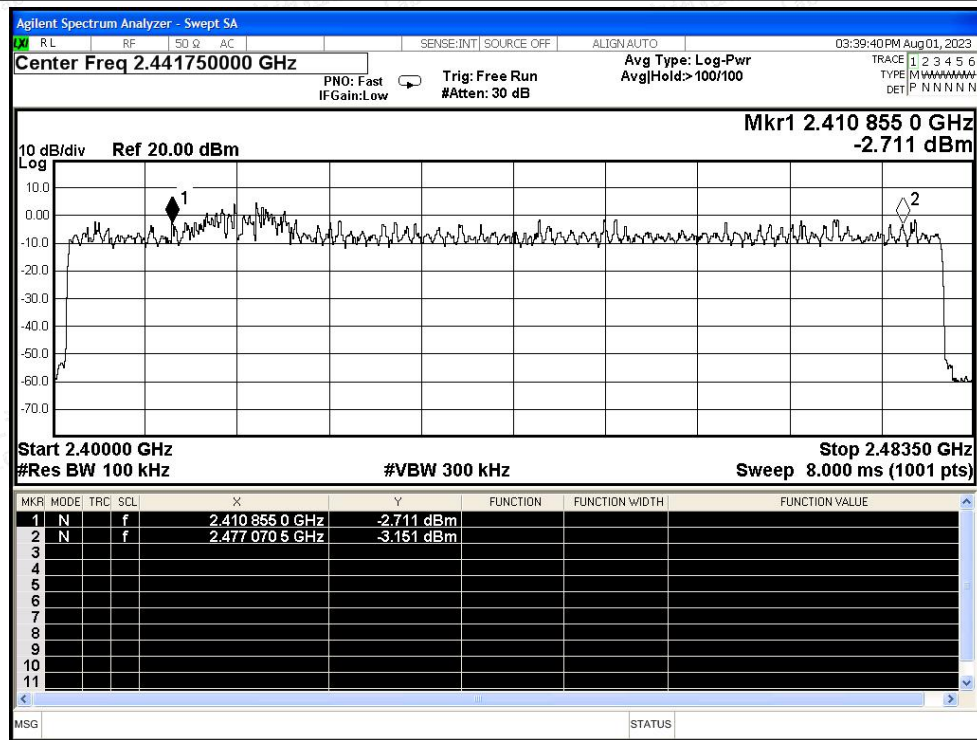


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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A.5 Dwell Time

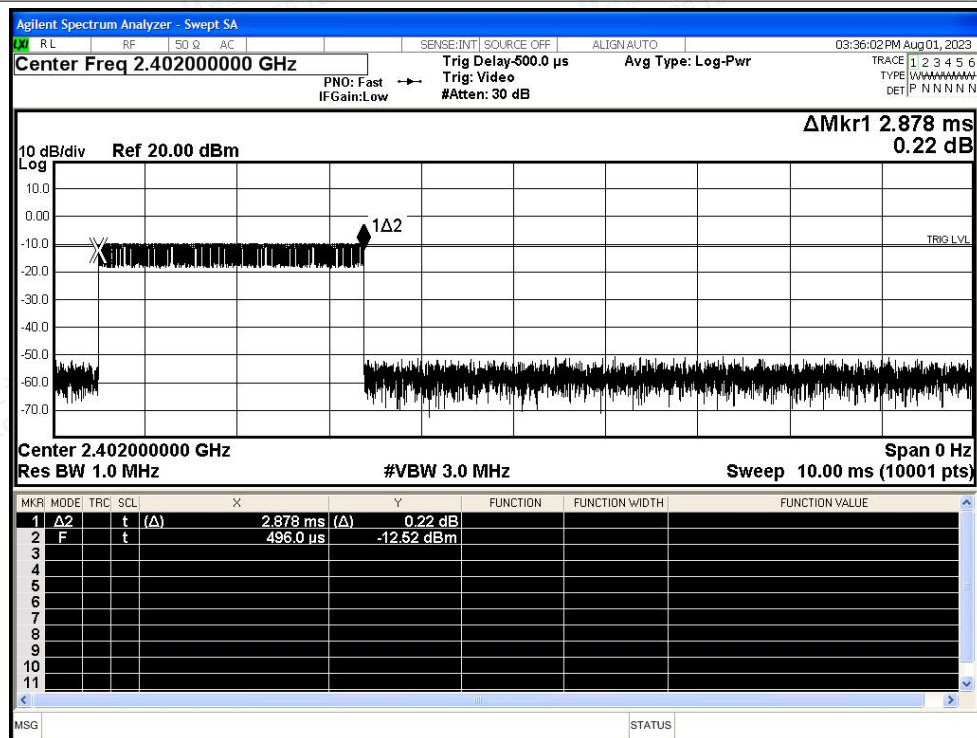
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.878	319.458	111	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	285.12	99	31600	400	Pass



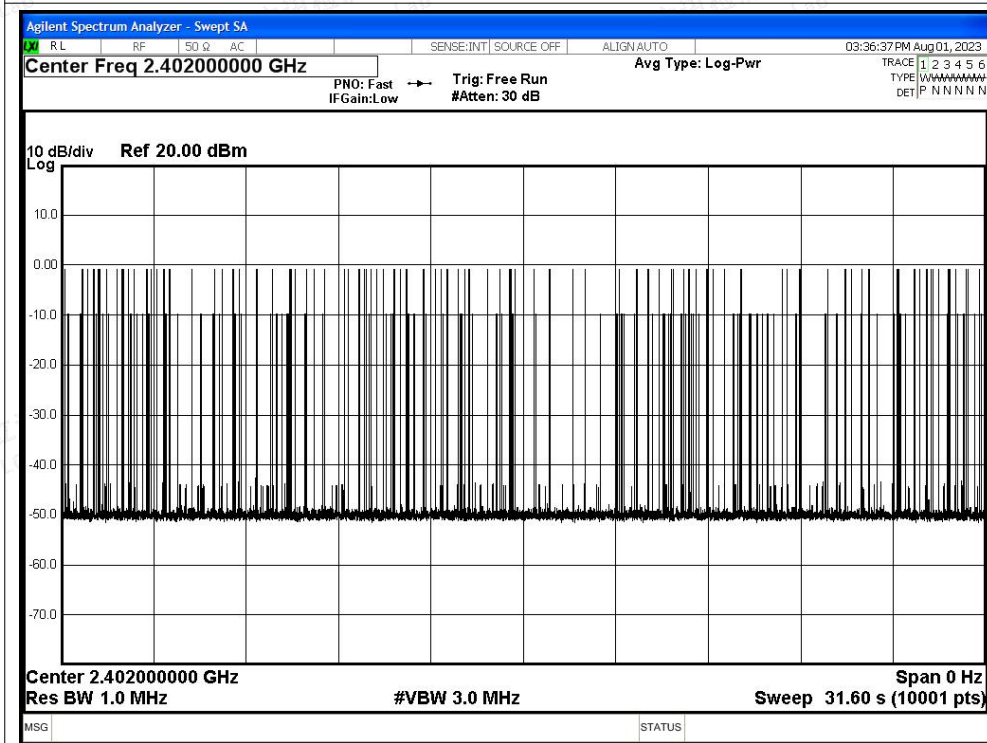


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

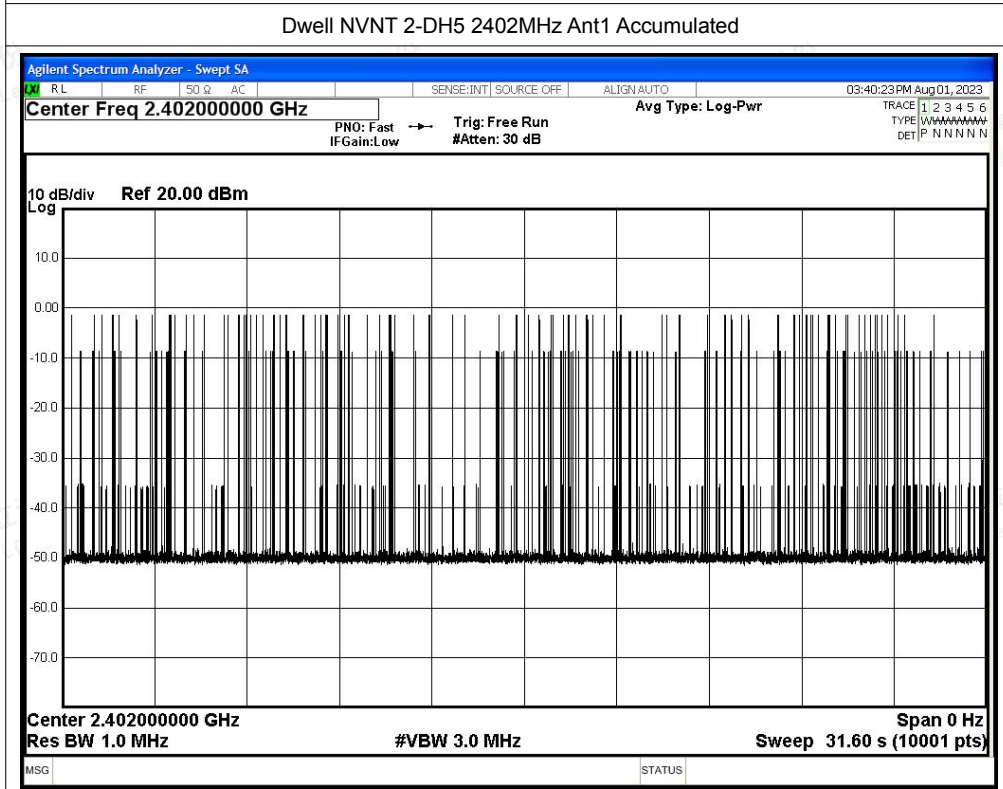
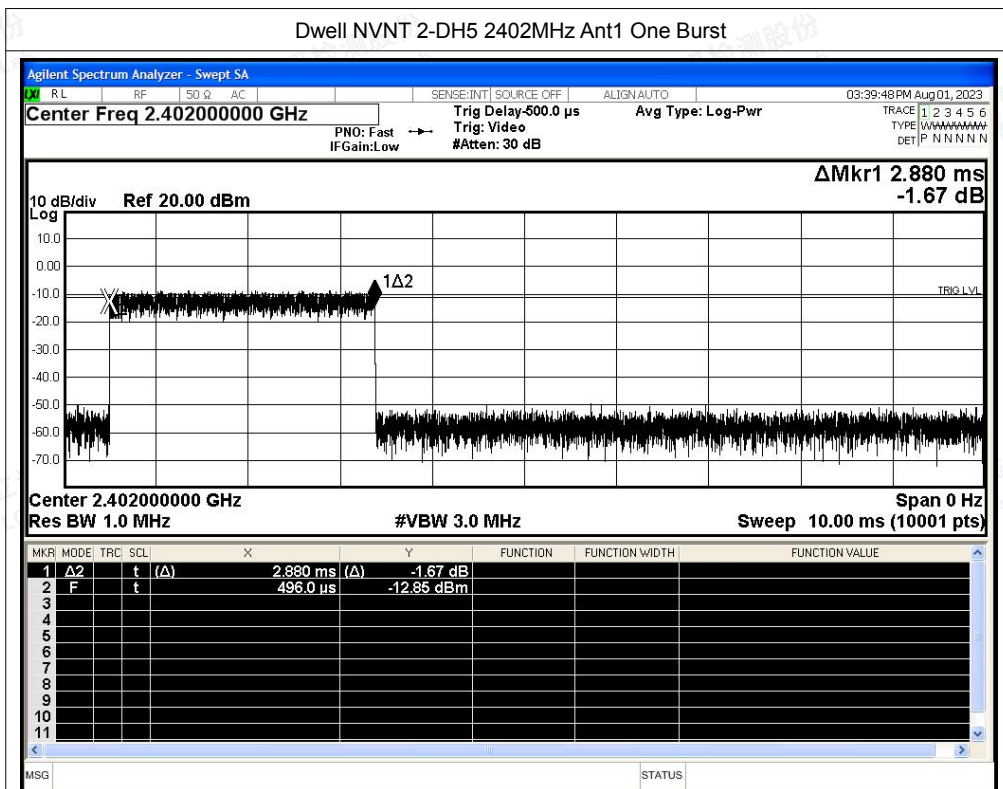


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A.7 Band Edge

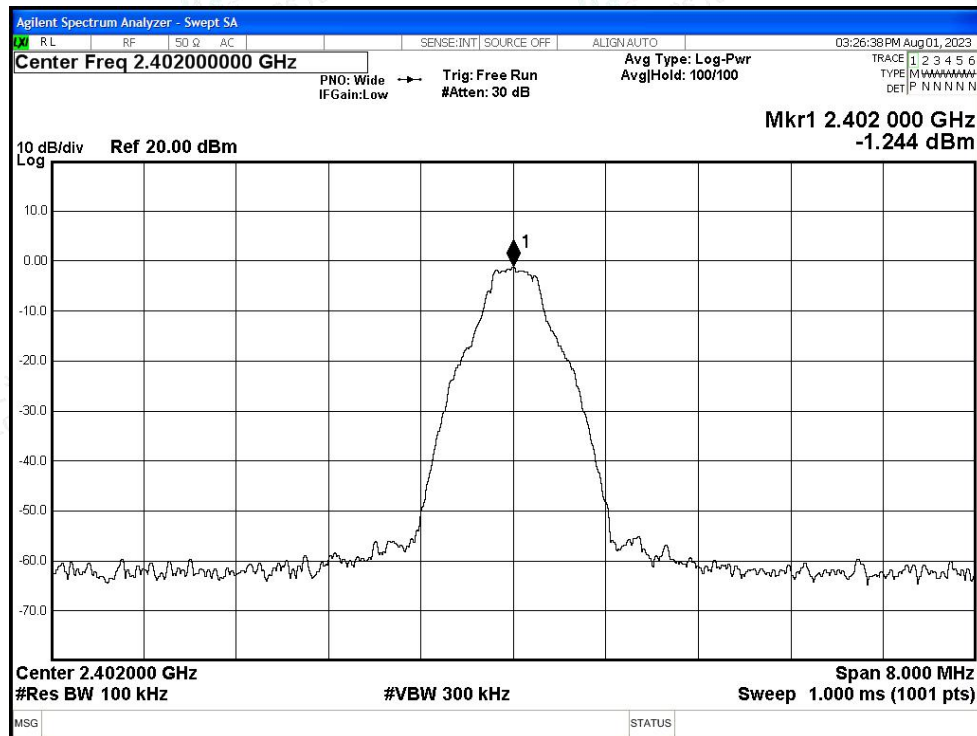
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.56	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.43	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.07	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-51.89	-20	Pass



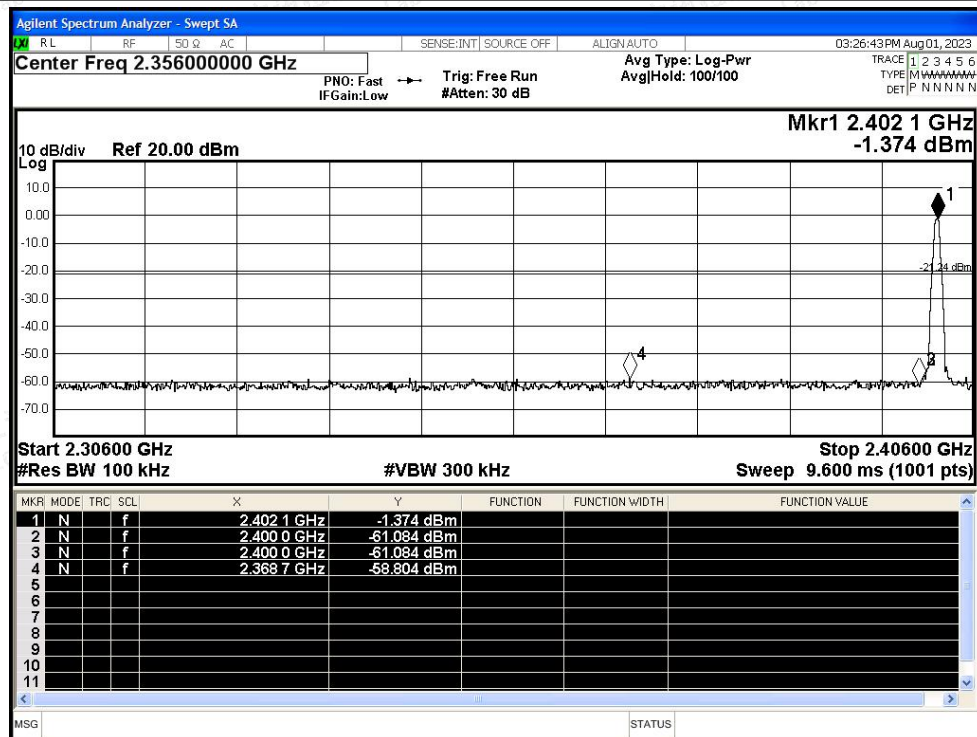


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

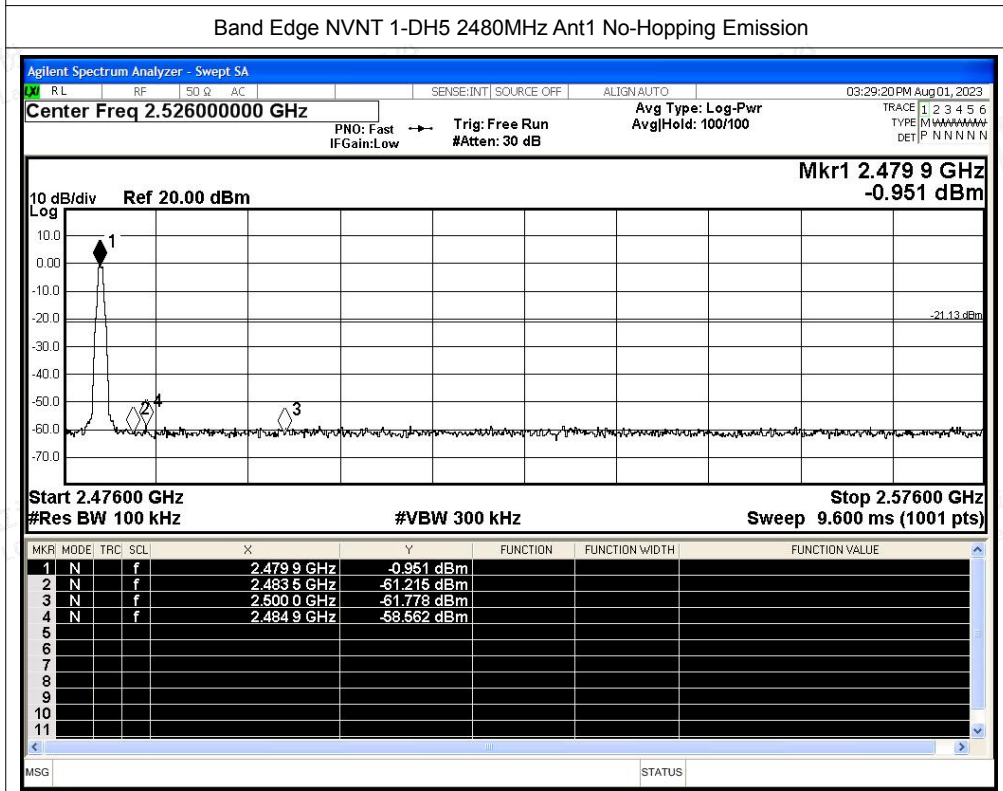
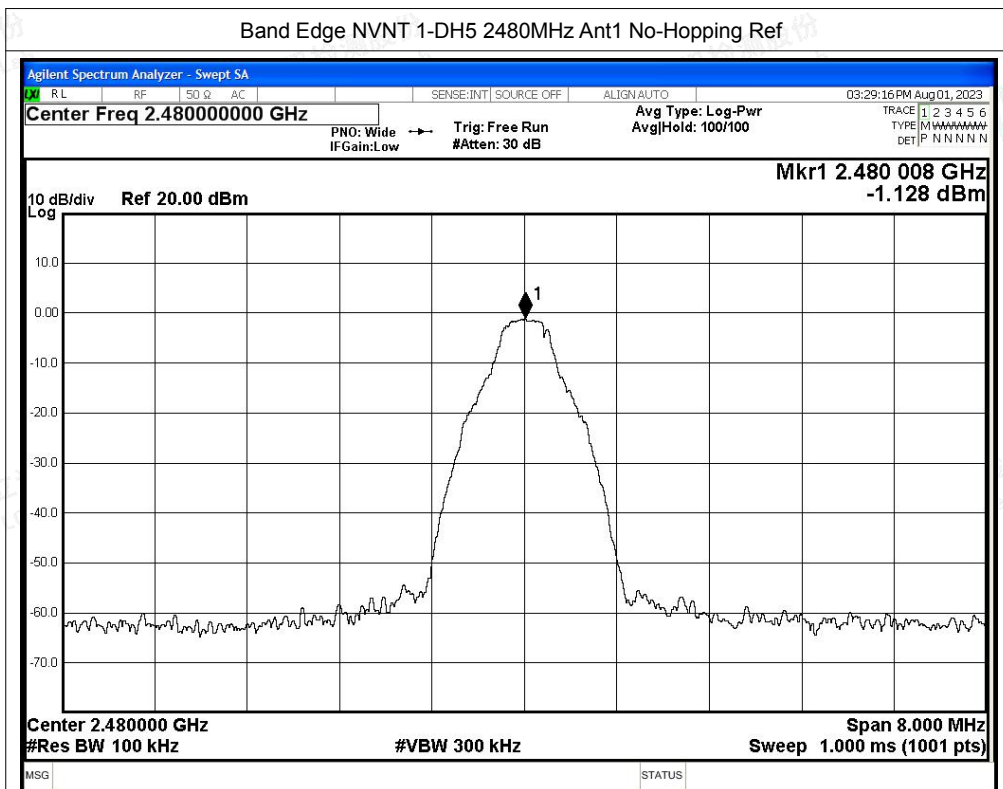


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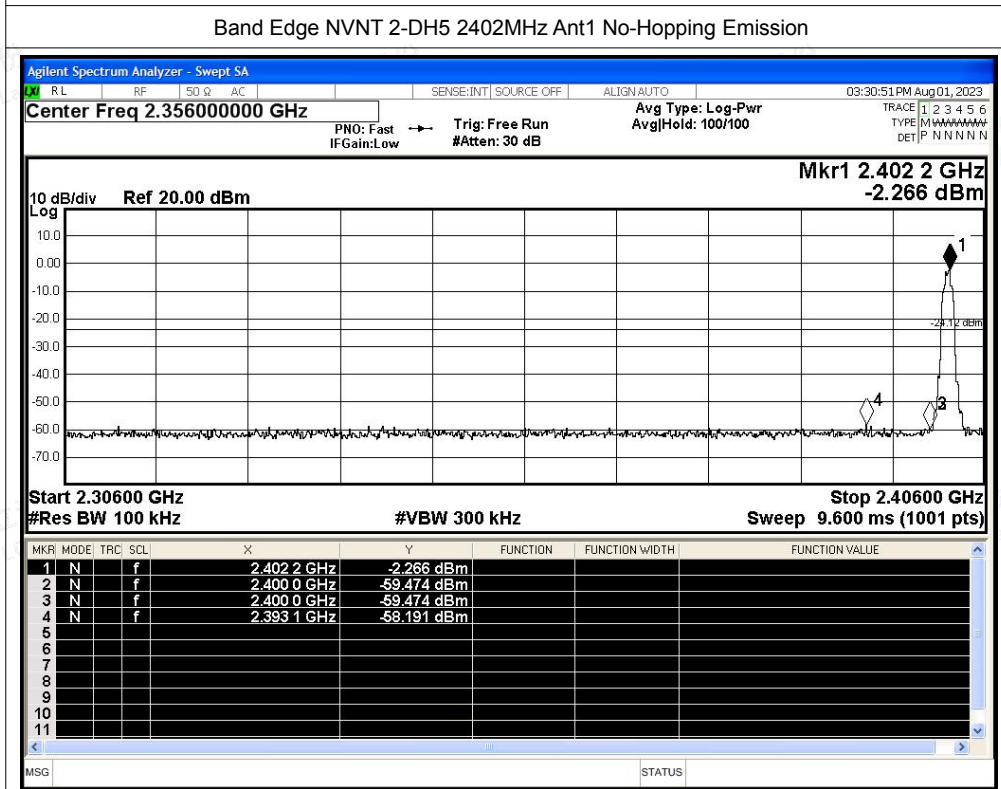
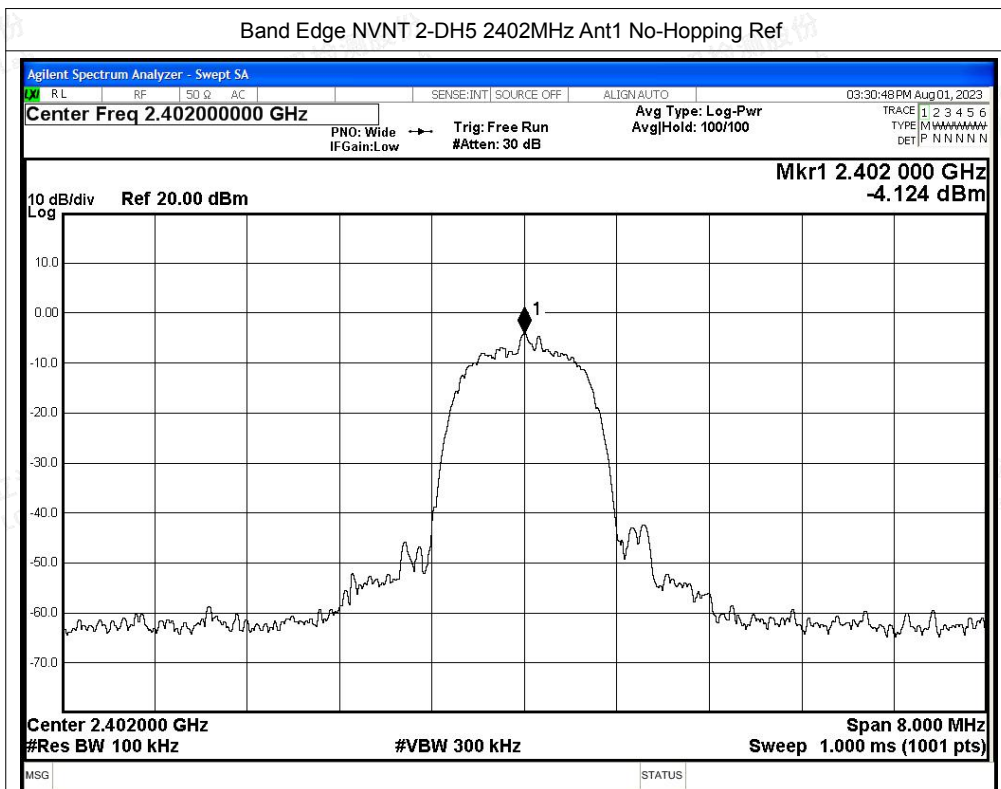


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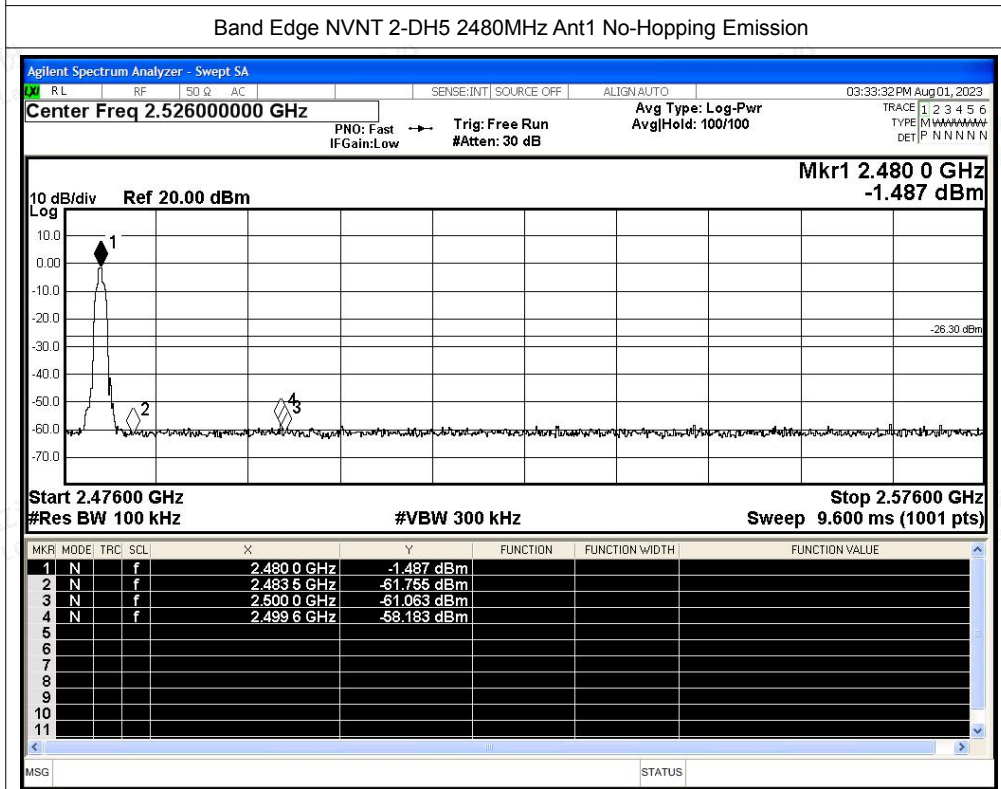
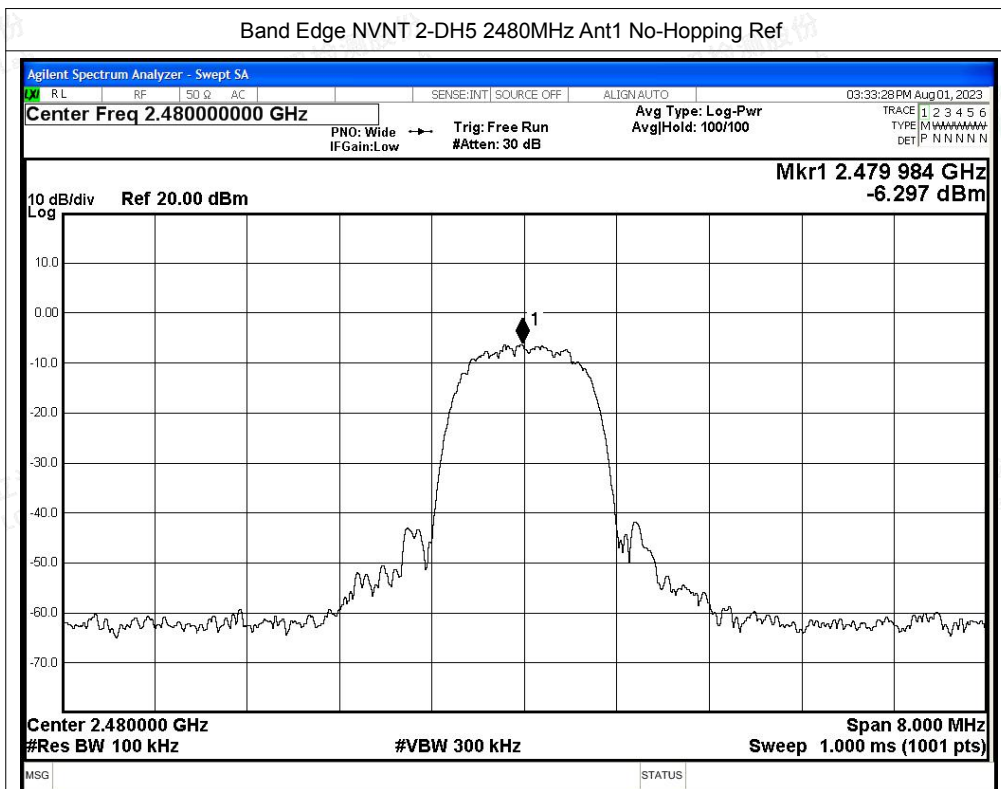


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(Hopping)

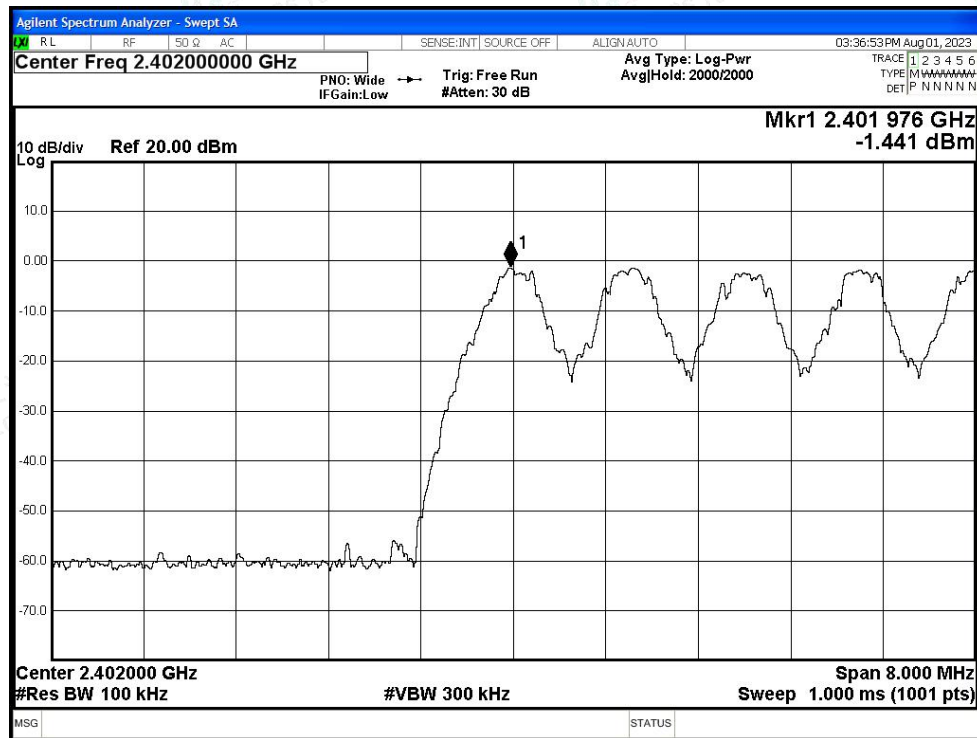
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.12	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.83	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.36	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.52	-20	Pass



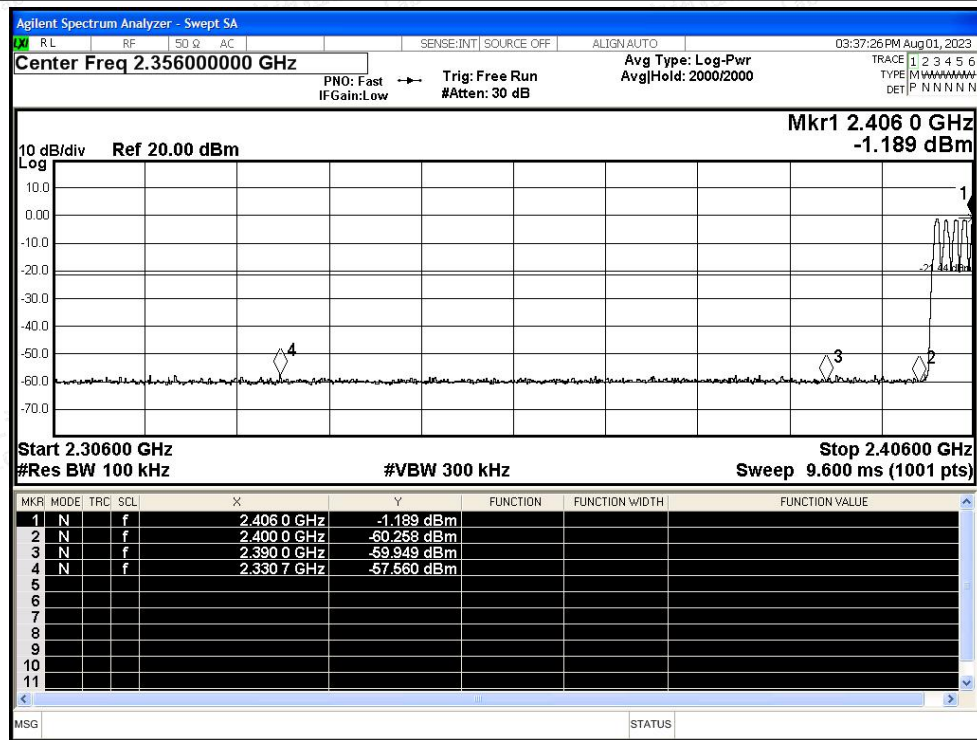


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



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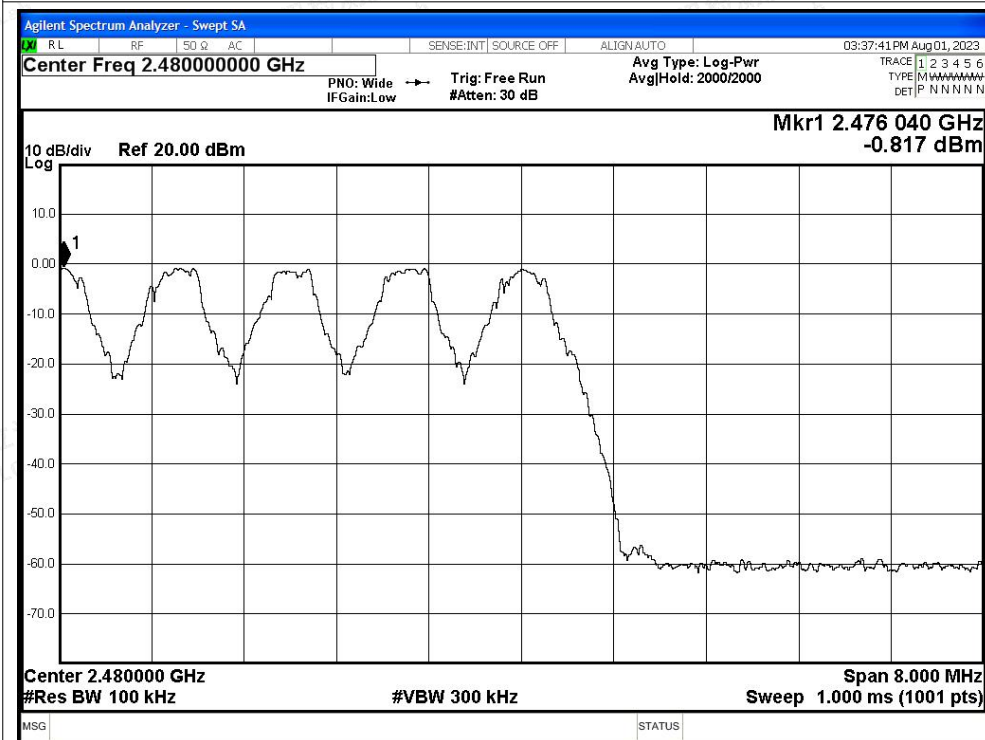
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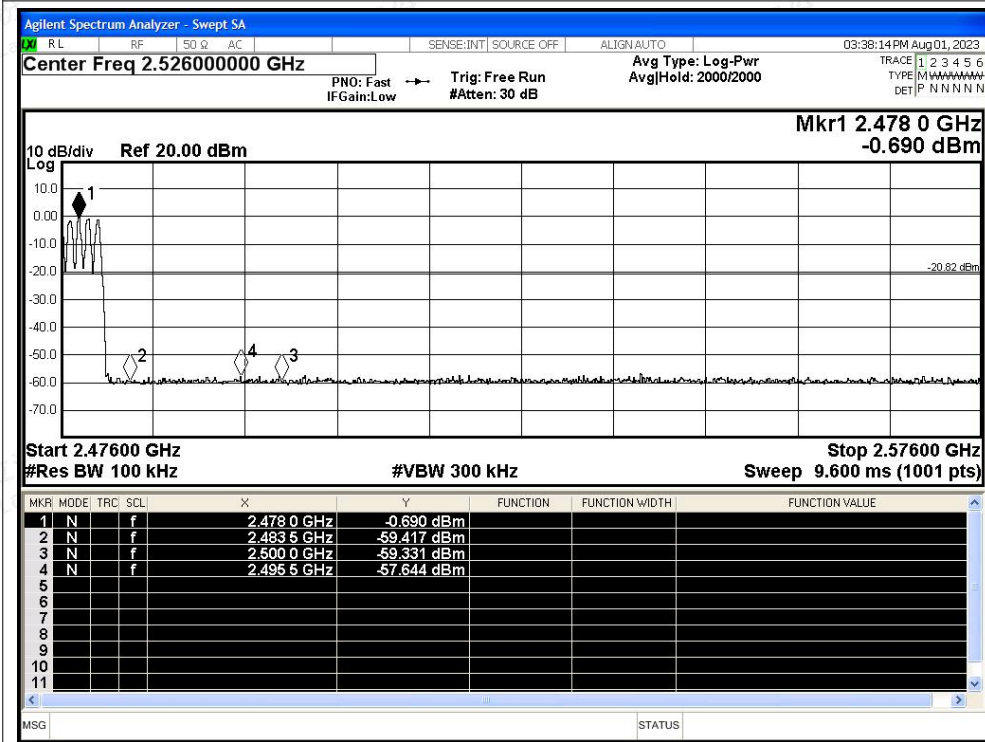
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

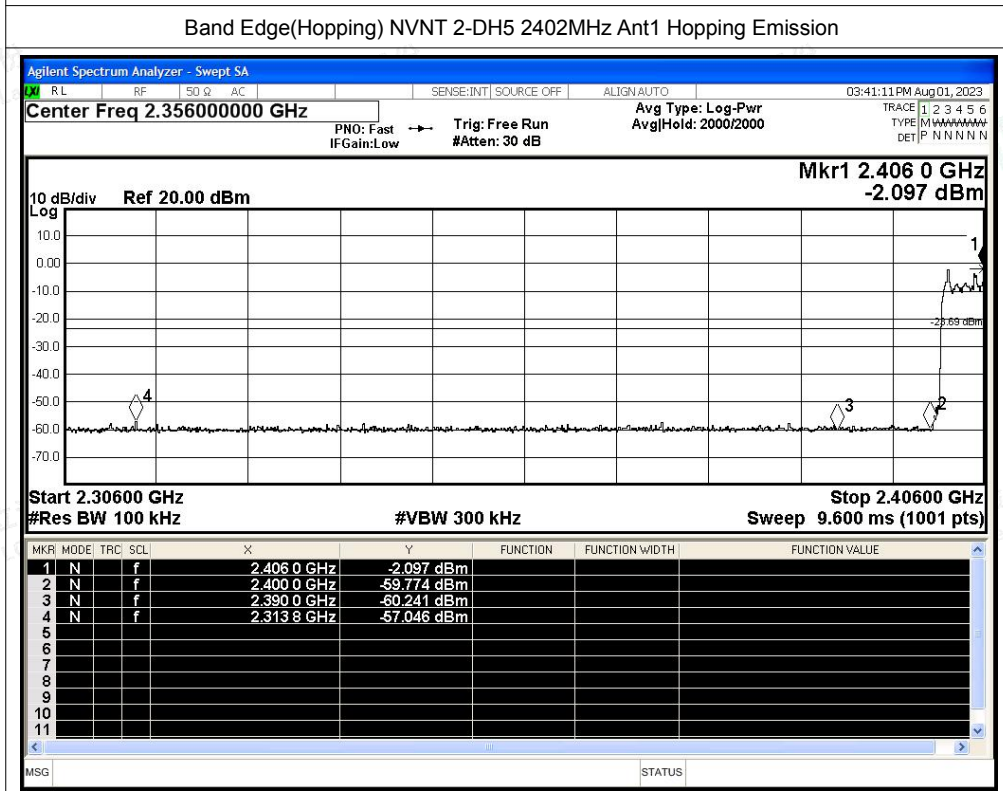
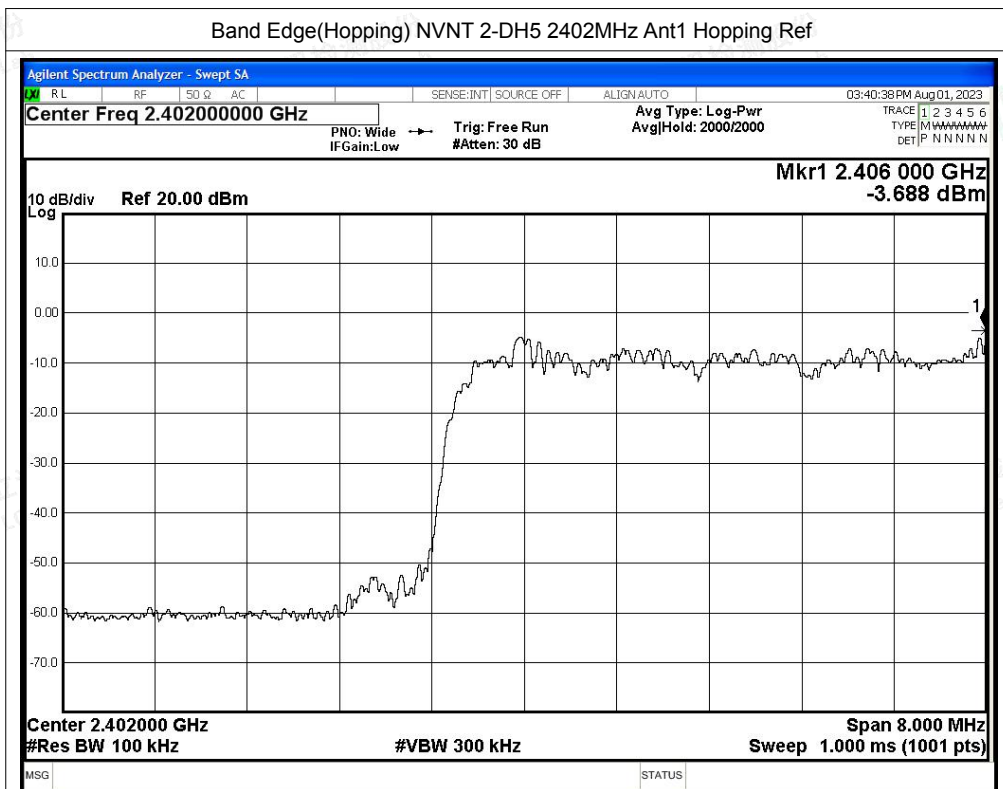


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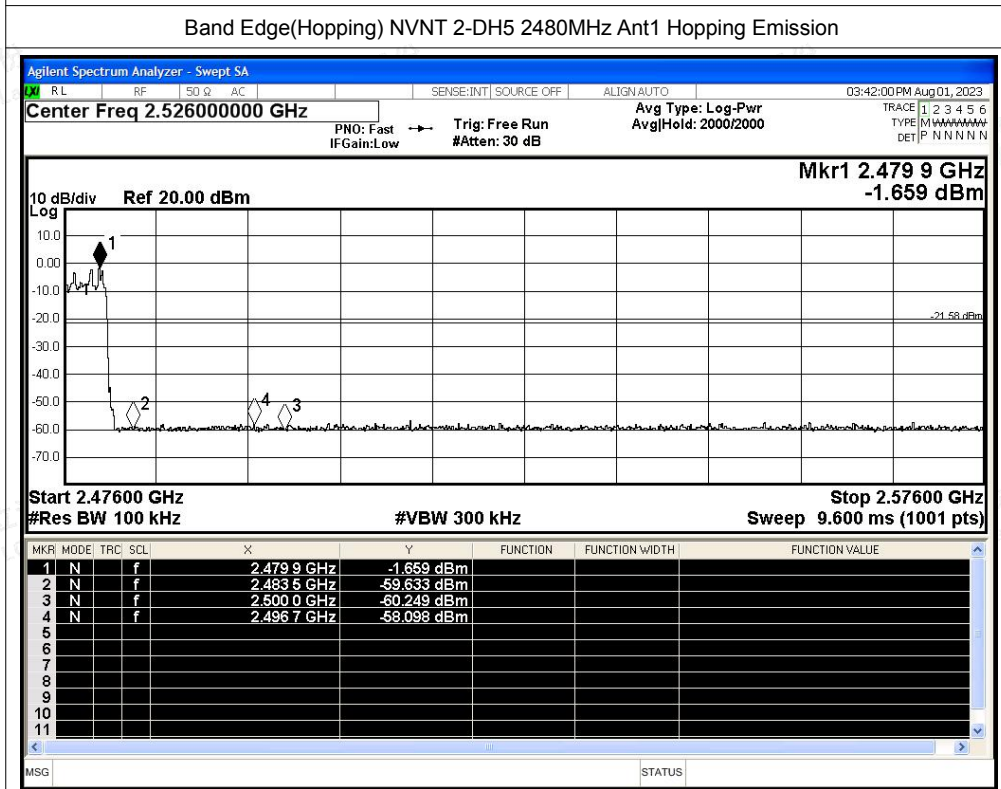
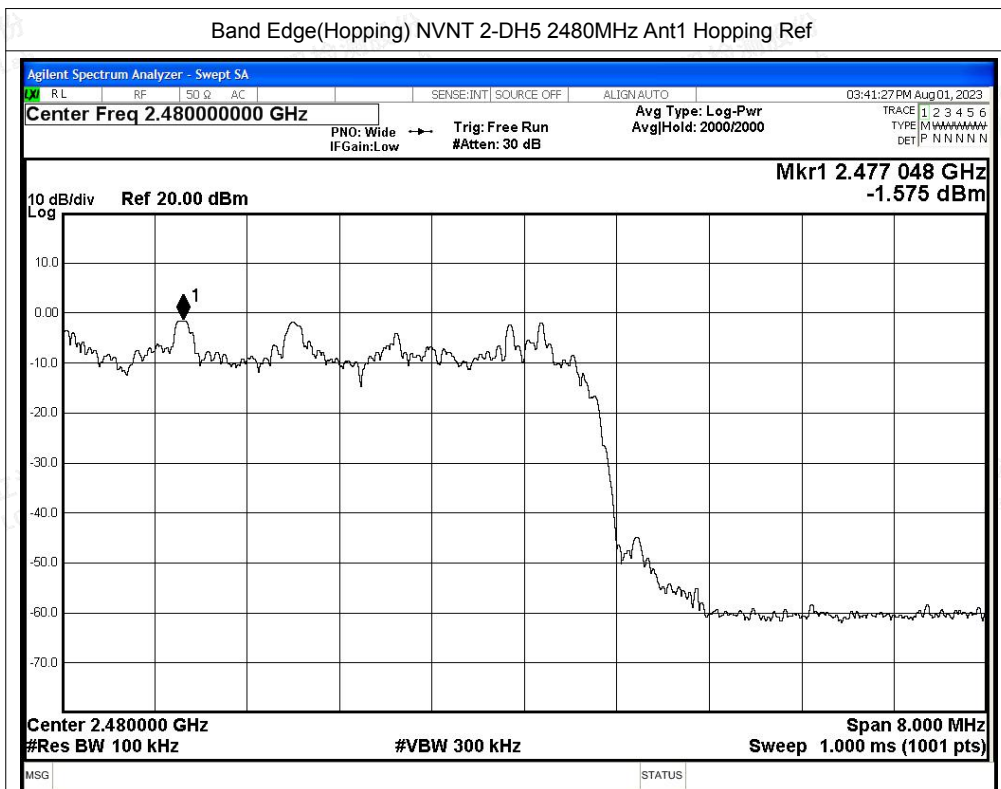


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A.8 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-56.47	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.19	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.29	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.32	-20	Pass
NVNT	2-DH5	2441	Ant1	-56.13	-20	Pass
NVNT	2-DH5	2480	Ant1	-55.67	-20	Pass

