



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: MagStick

Test Model: PDUZ79

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan



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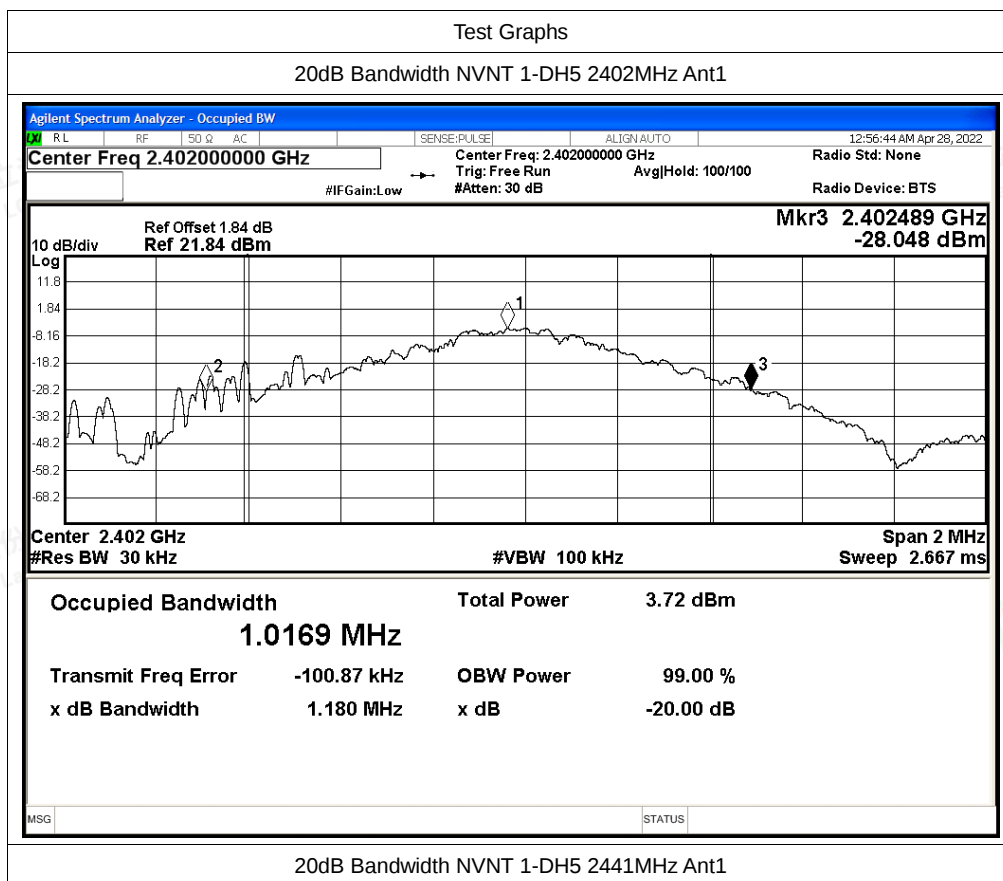
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A.1 20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	20 dB Bandwidth (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.18	--	--
NVNT	1-DH5	2441	Ant1	1.13	--	--
NVNT	1-DH5	2480	Ant1	1.029	--	--

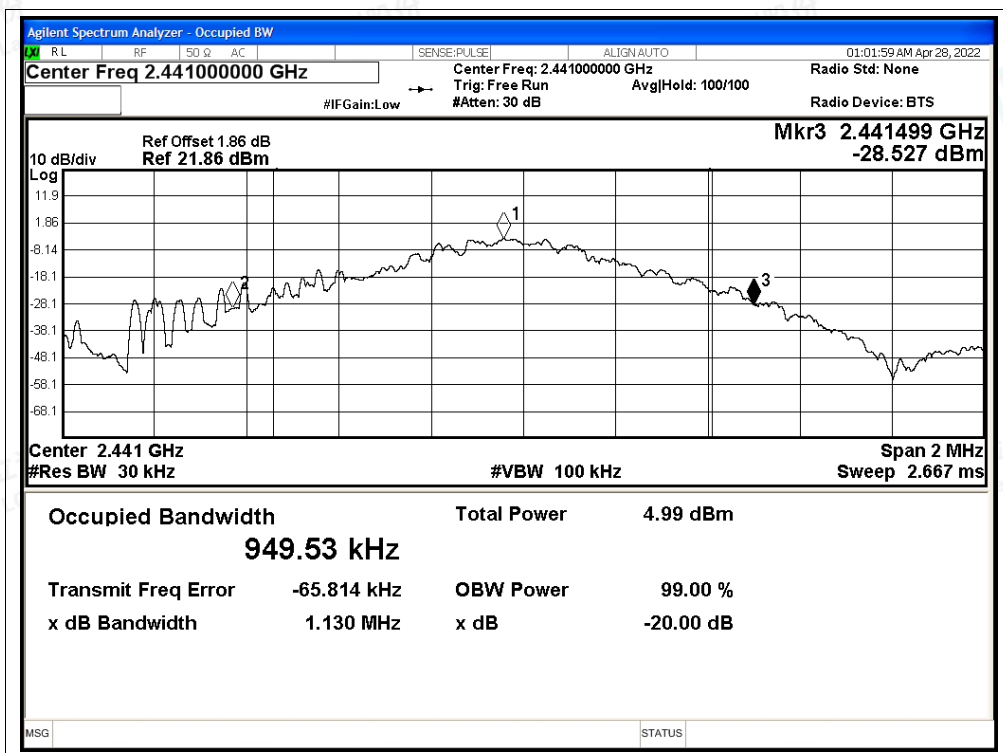


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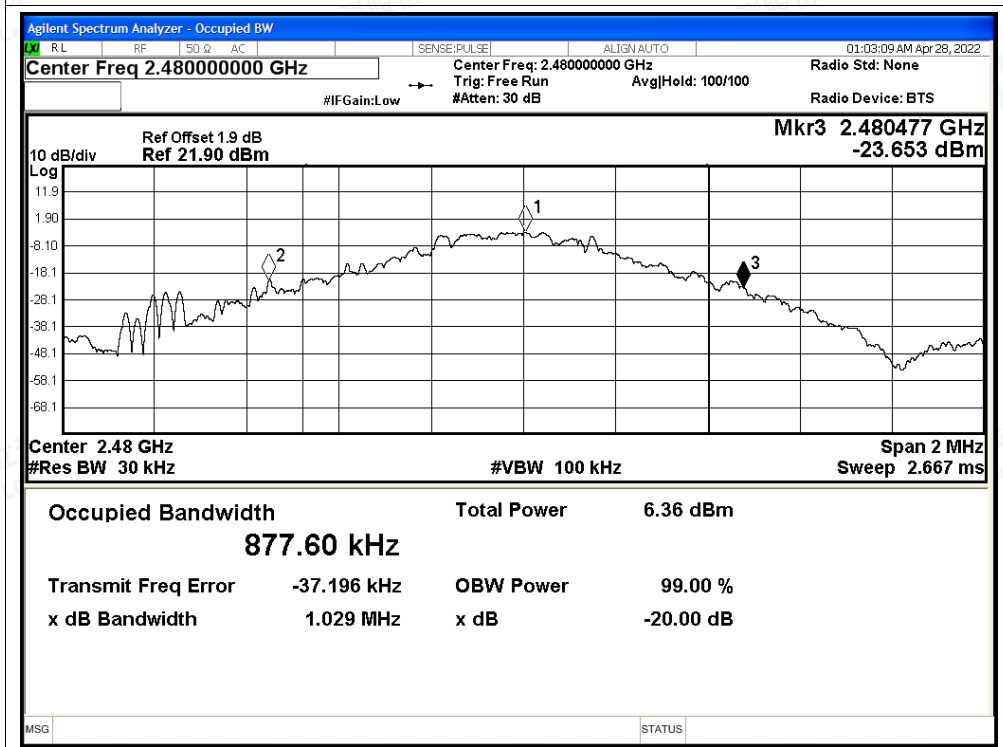
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20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



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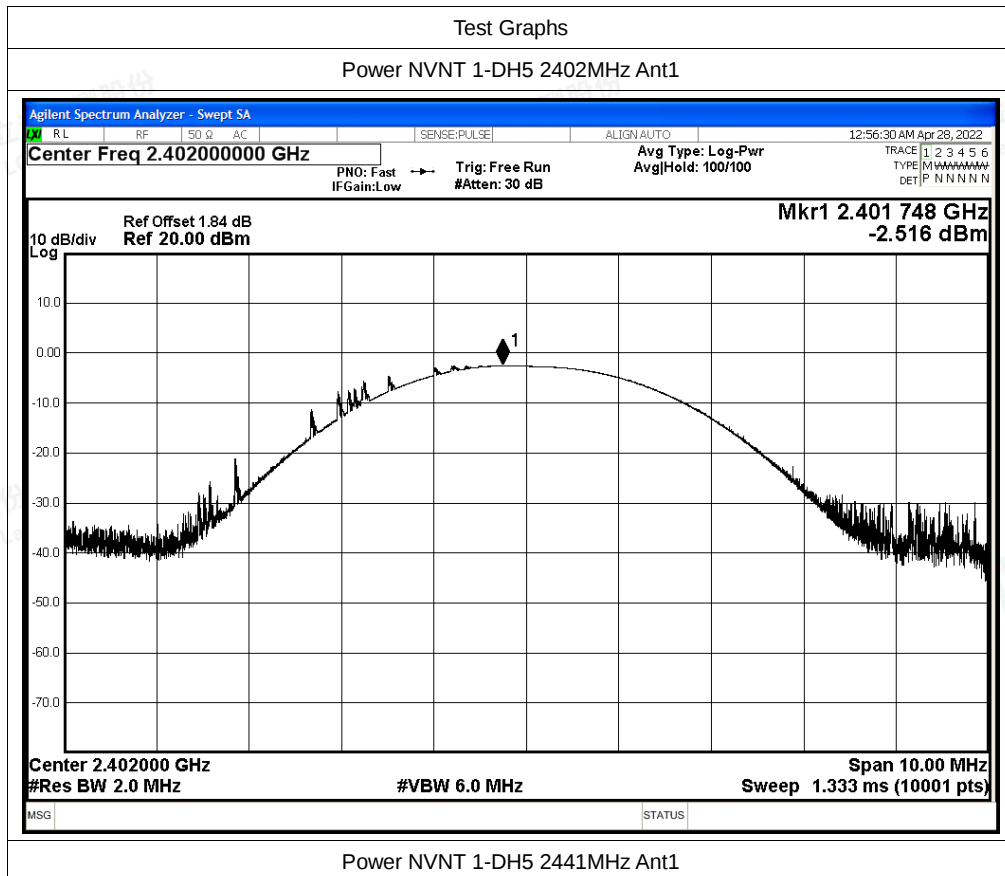
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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-2.52	21	Pass
NVNT	1-DH5	2441	Ant1	-1.05	21	Pass
NVNT	1-DH5	2480	Ant1	-0.16	21	Pass

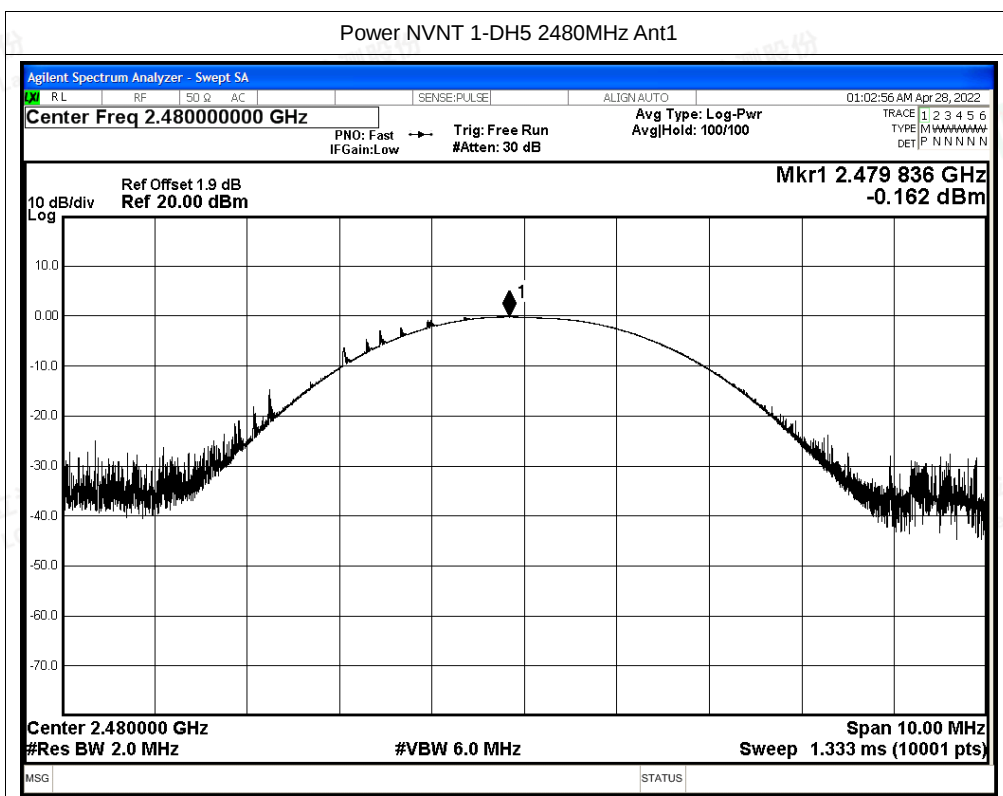
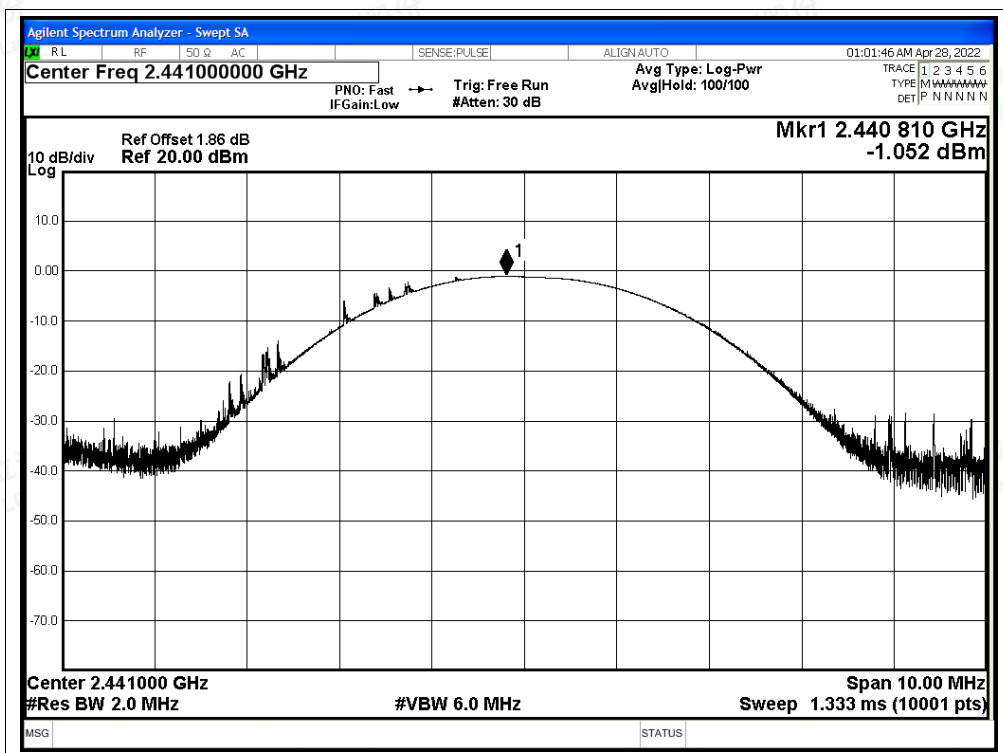


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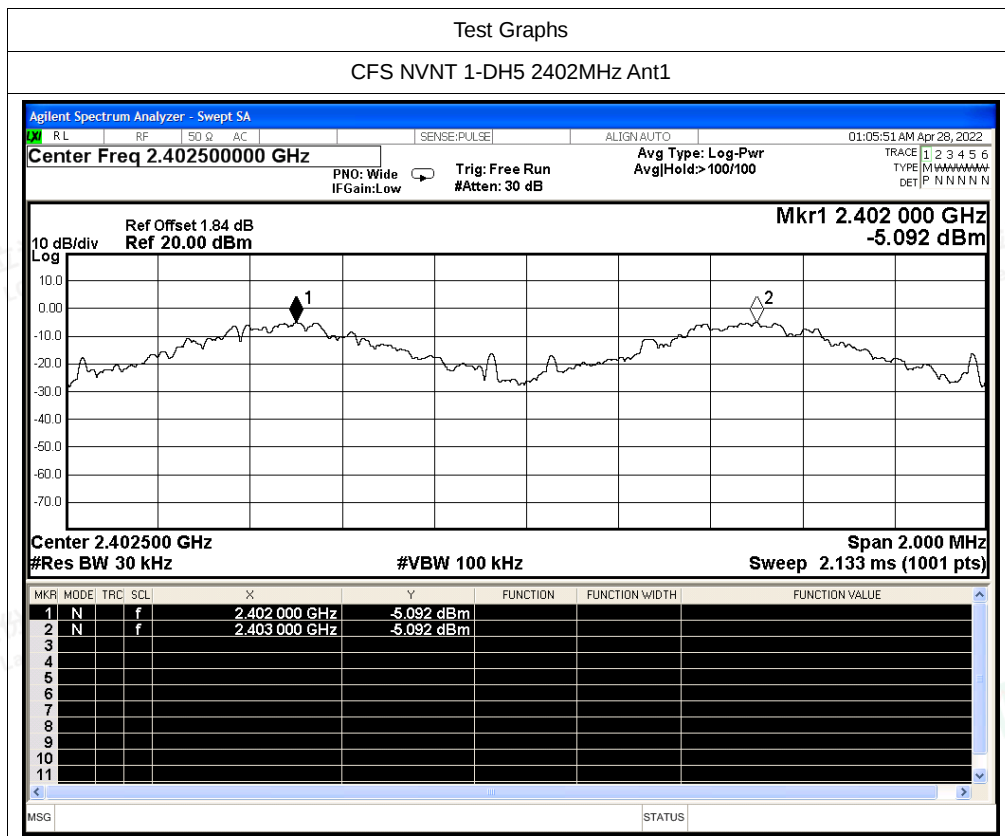
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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402	2403	1	0.787	Pass



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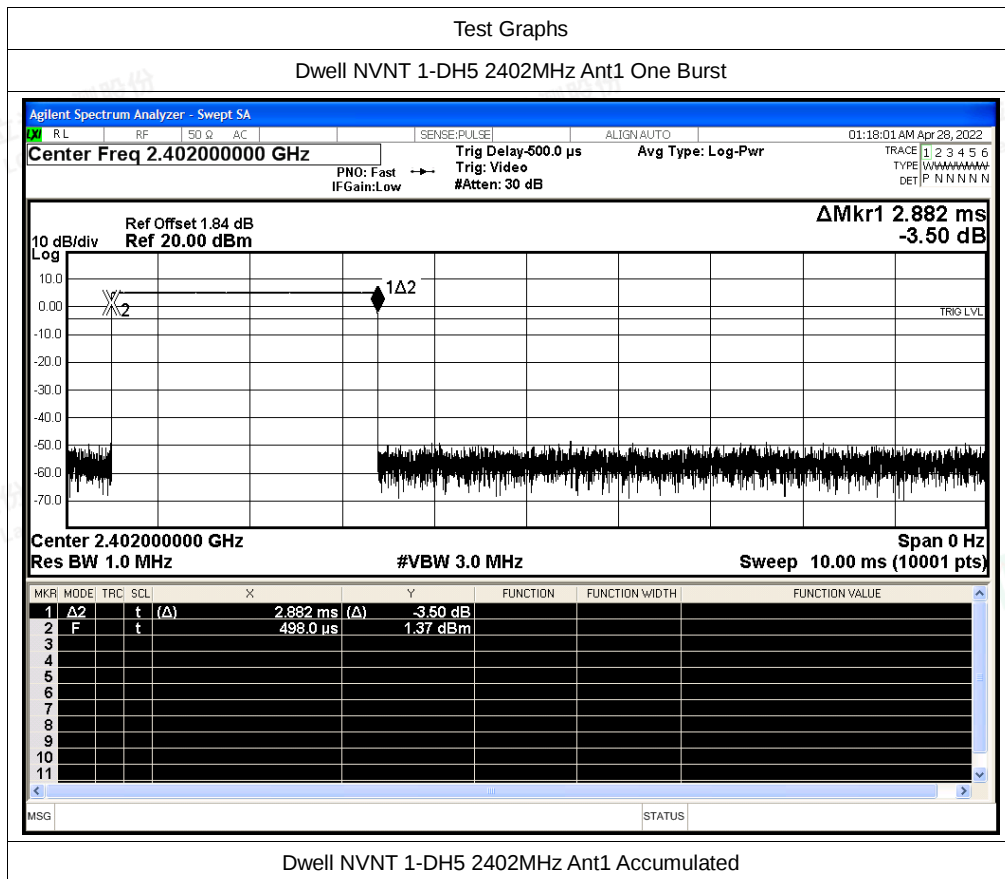
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A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	279.554	97	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.882	299.728	104	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.882	302.61	105	31600	400	Pass

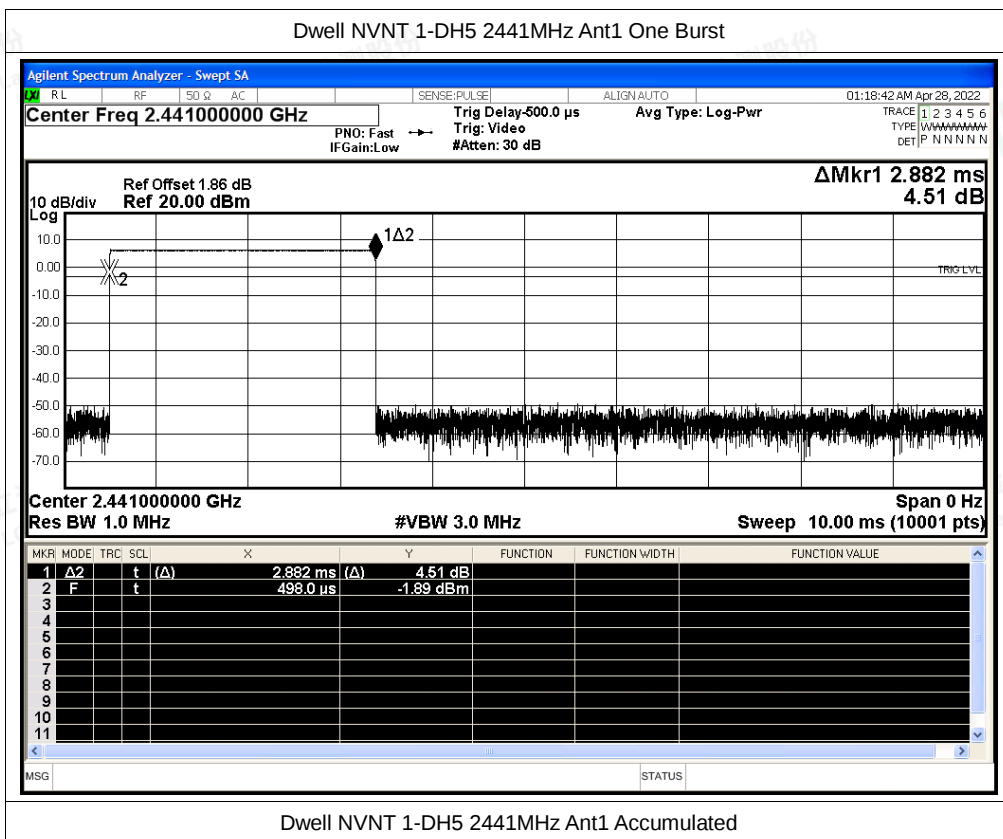
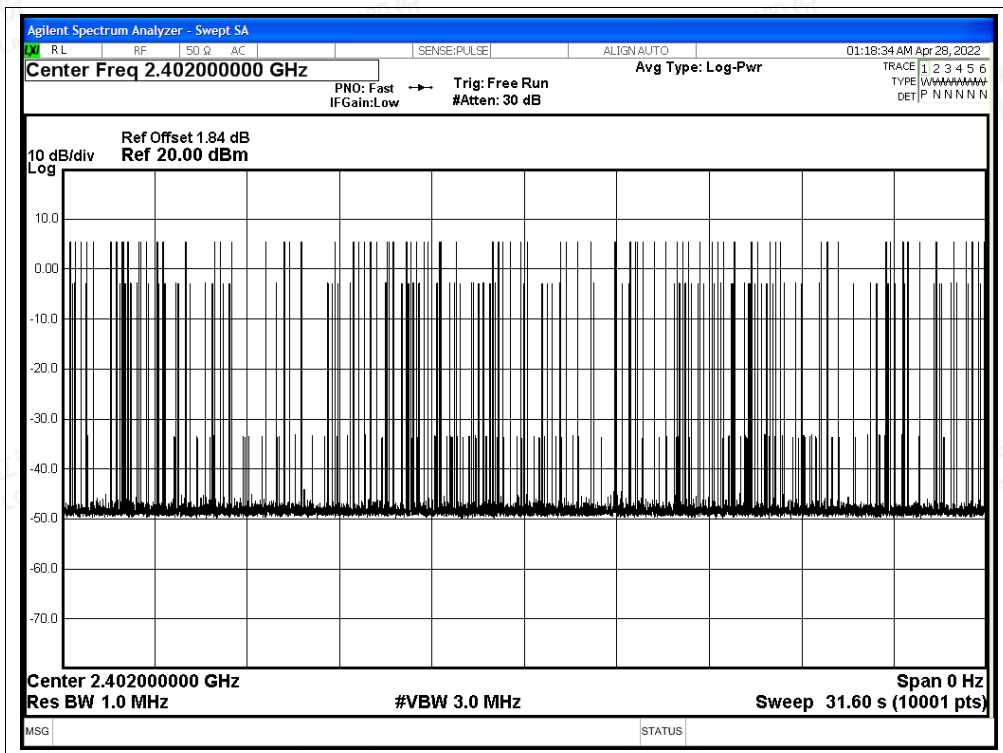


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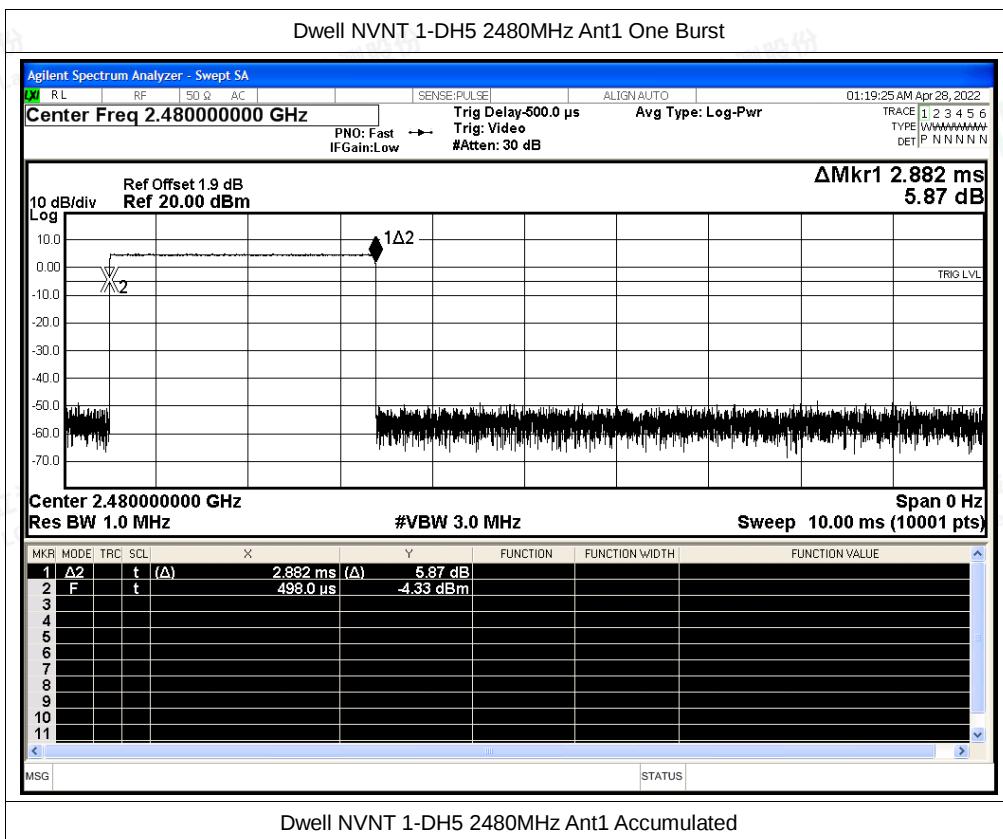
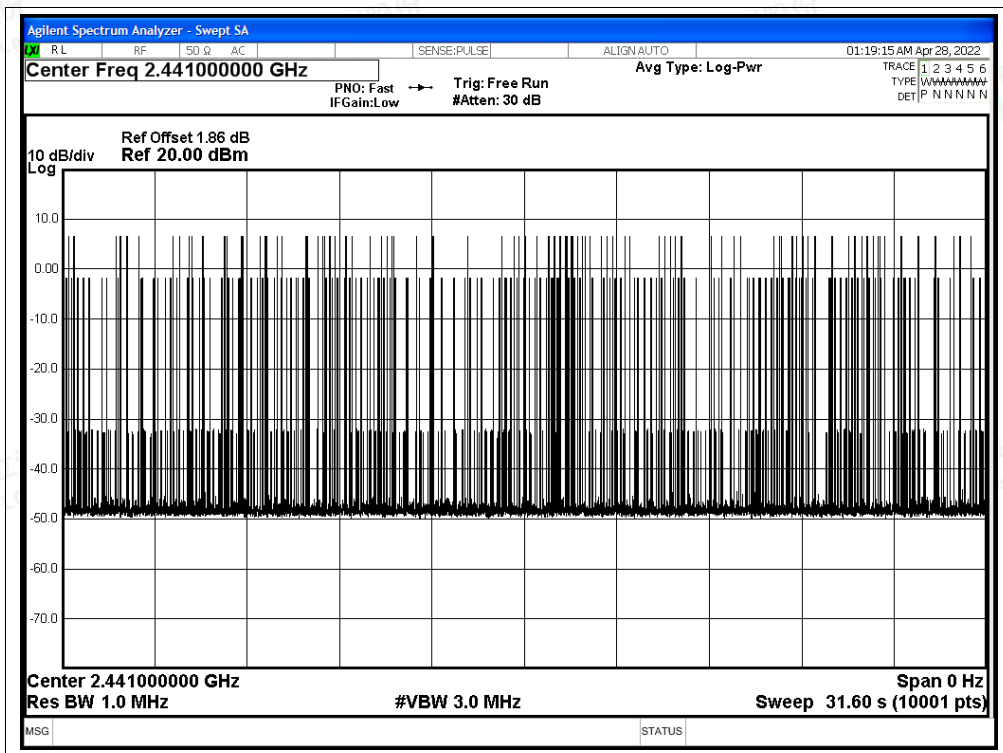


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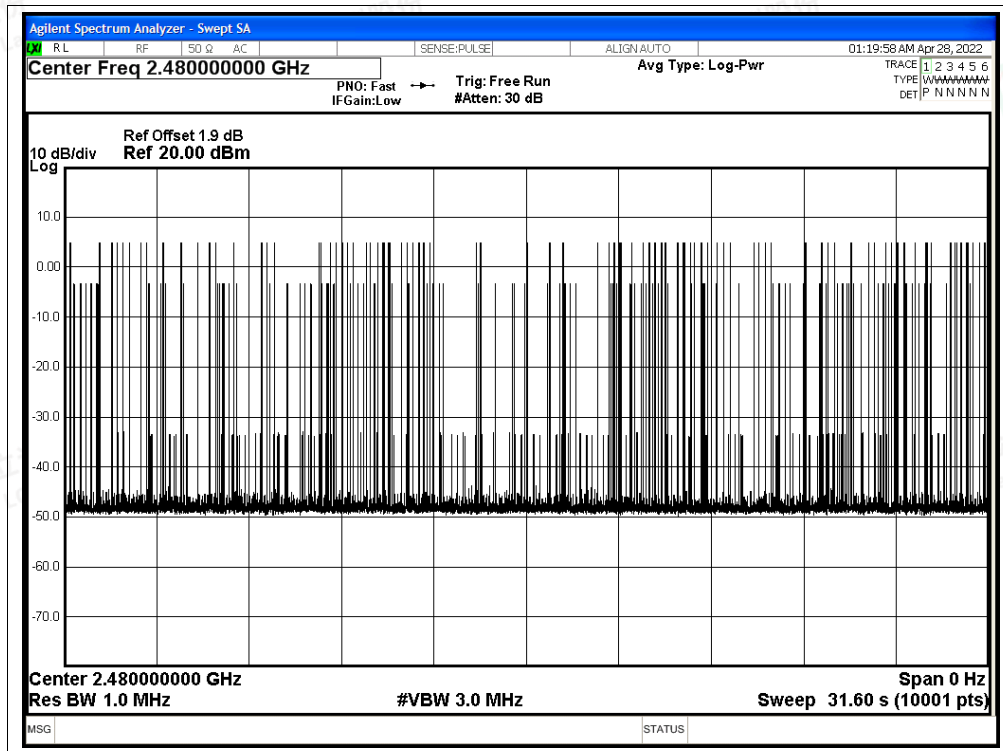


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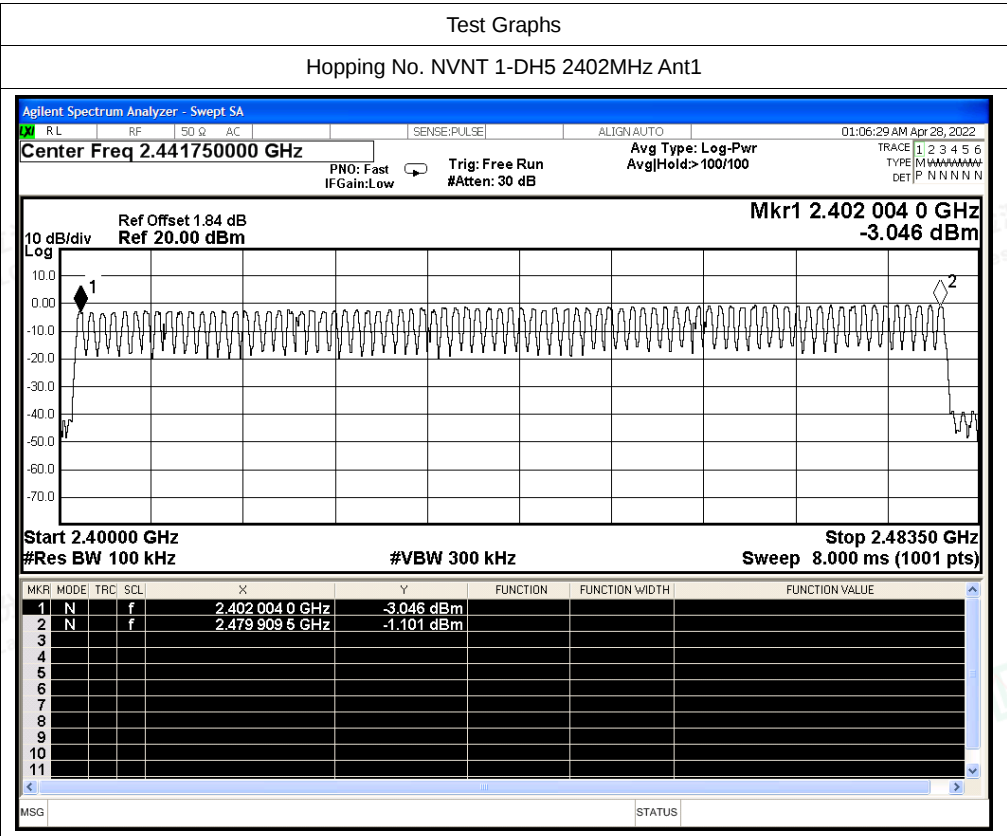
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A.5 Number of Hopping Channel

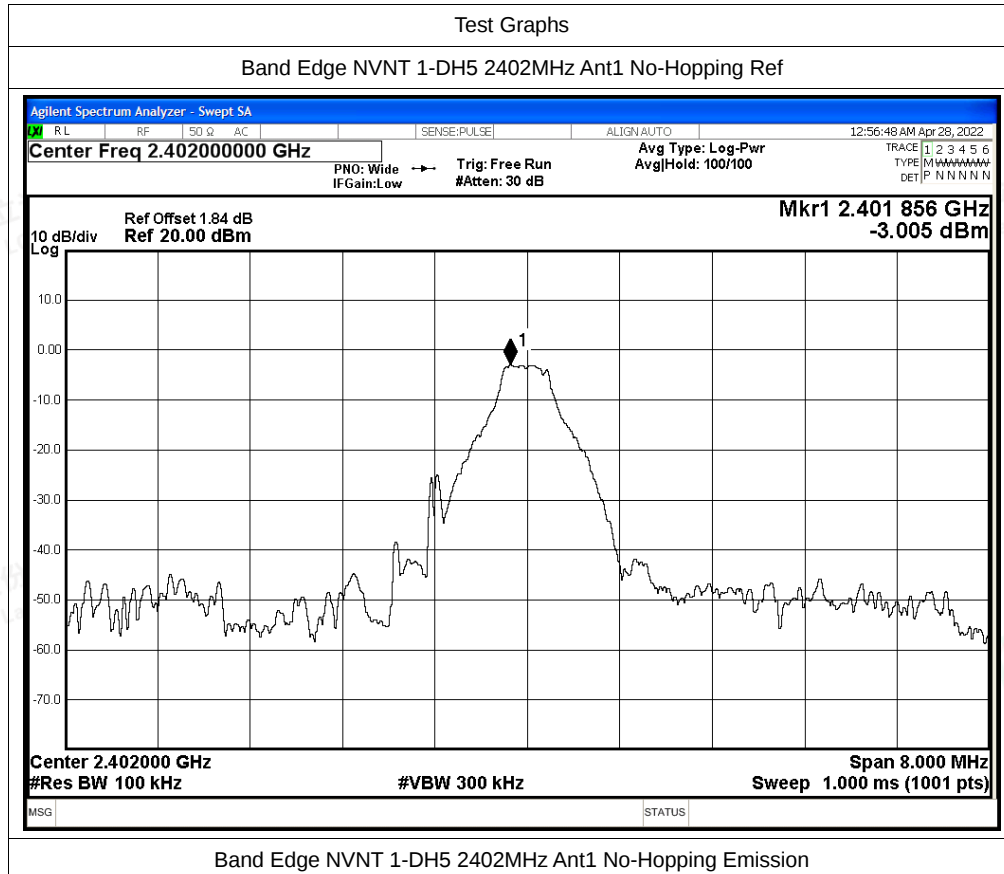
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-38.8	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-41.14	-20	Pass

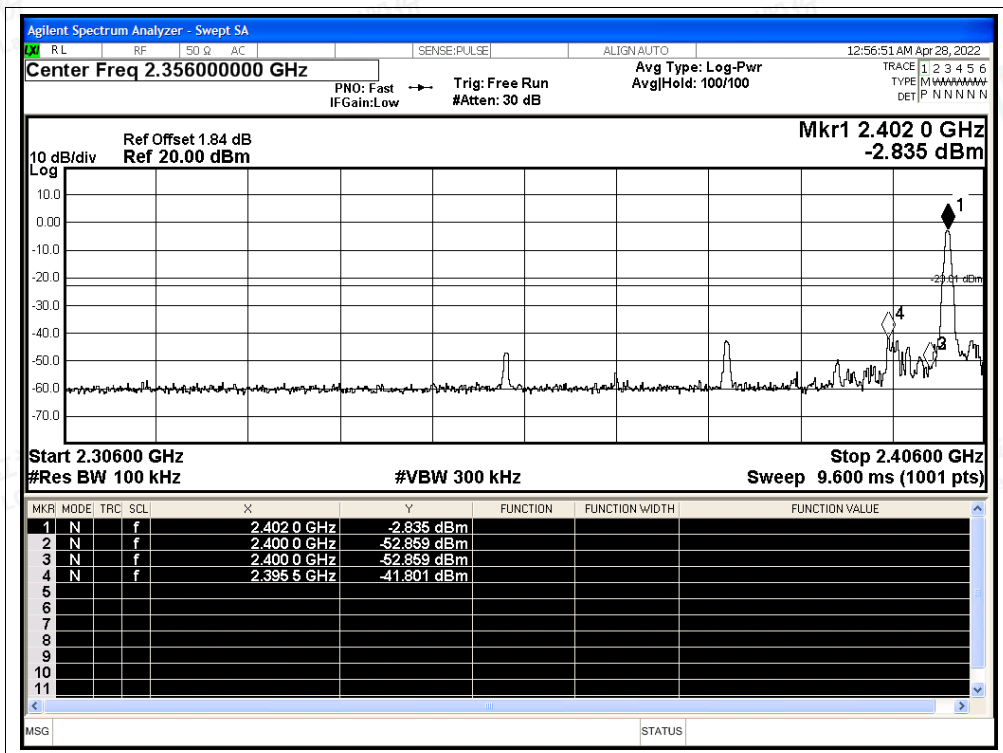


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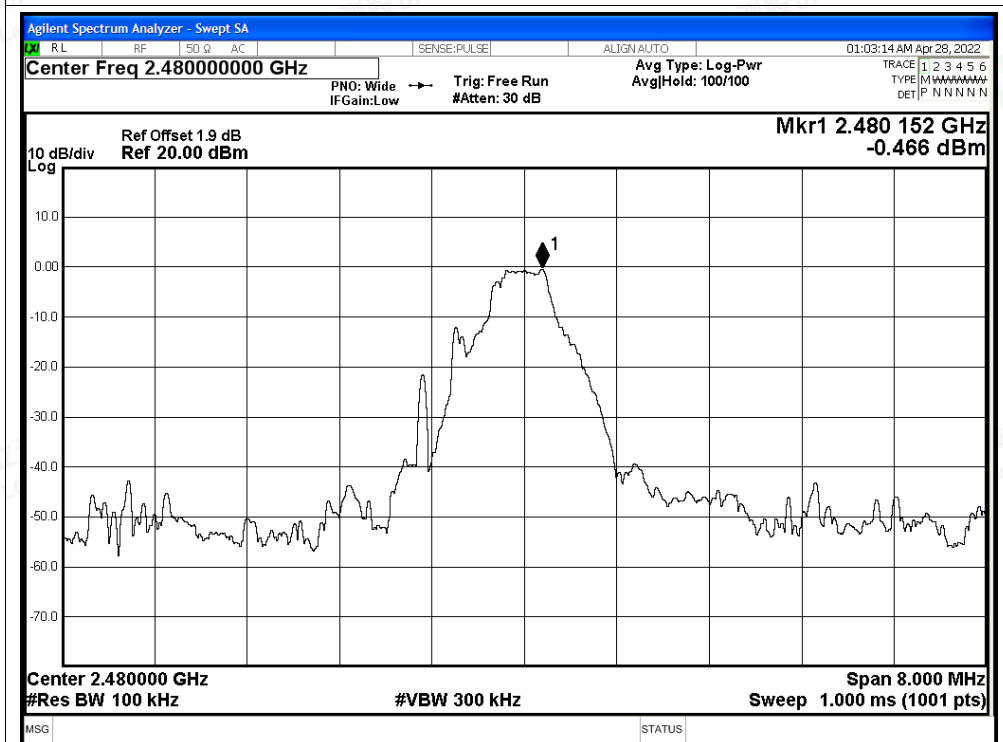
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

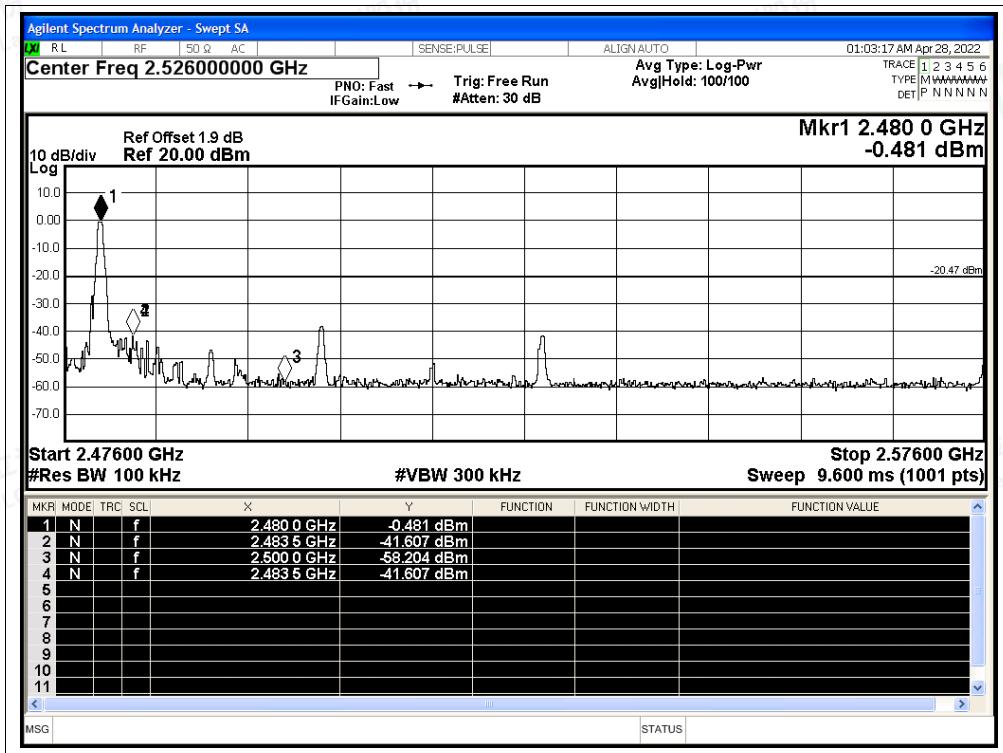


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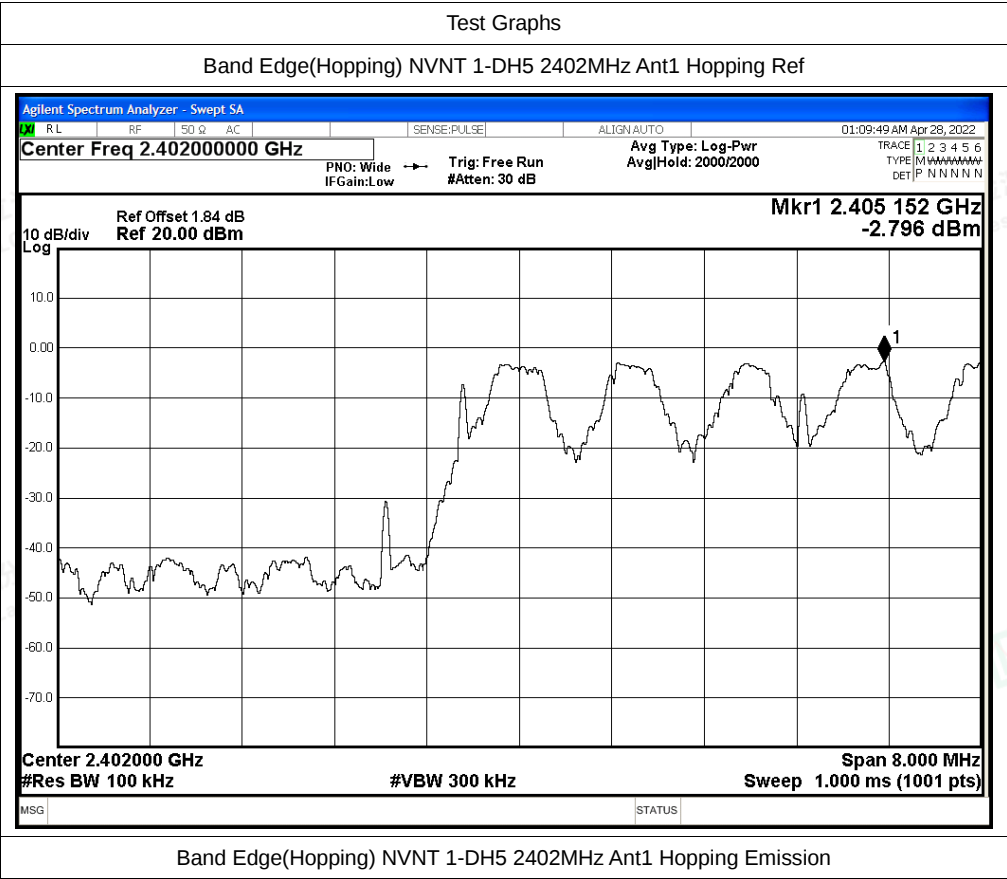
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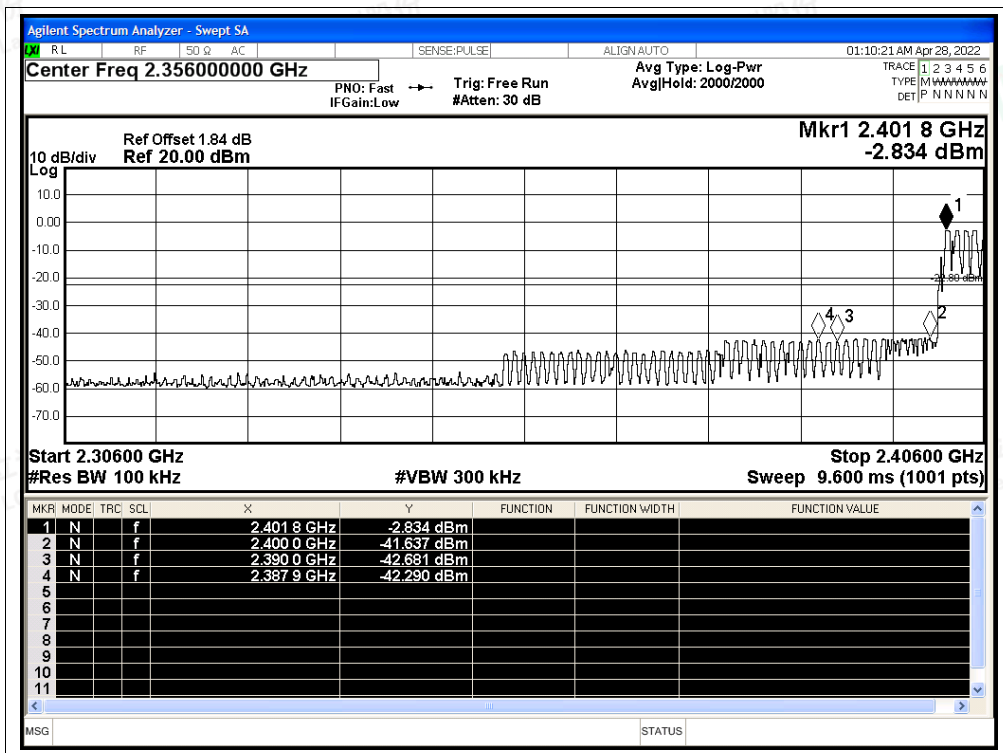
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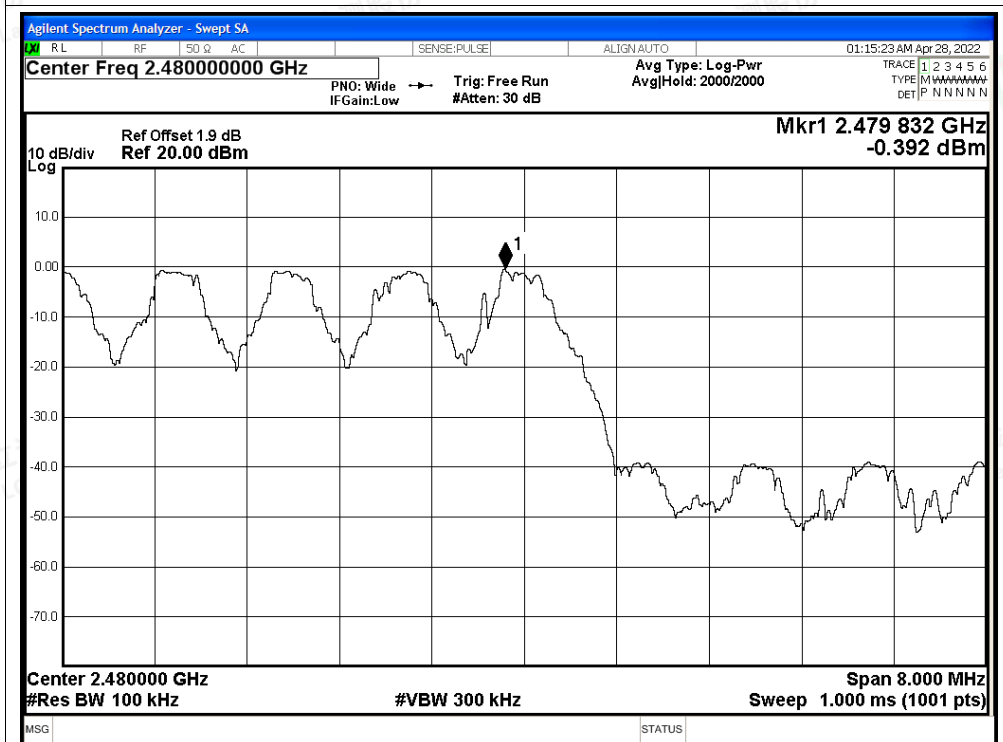
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-39.49	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-37.76	-20	Pass





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



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

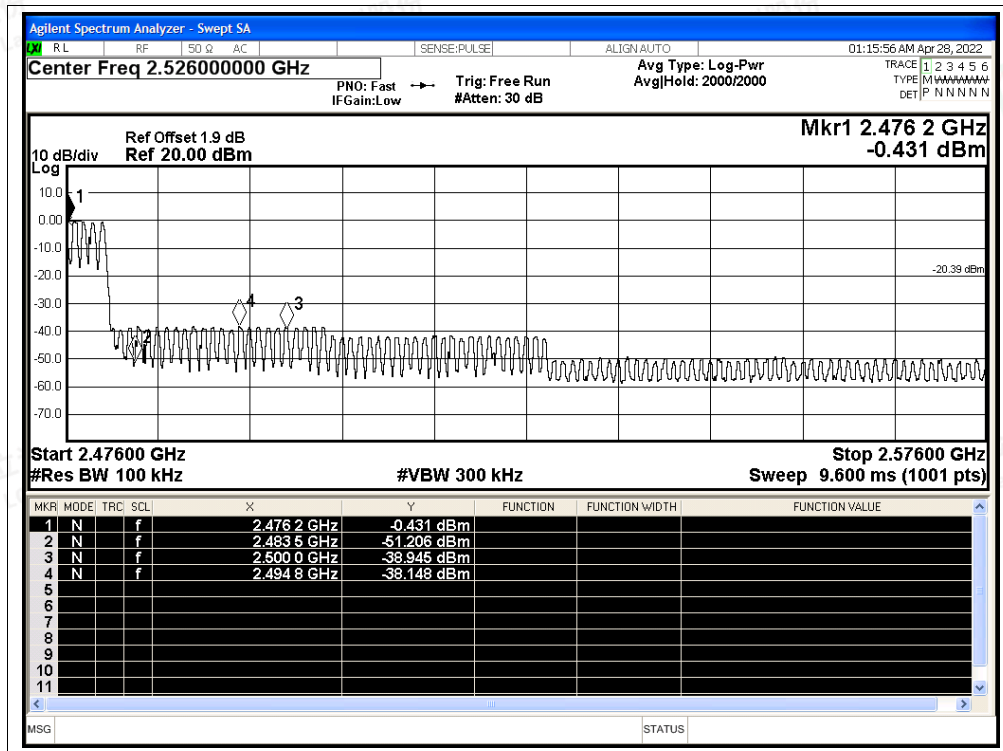


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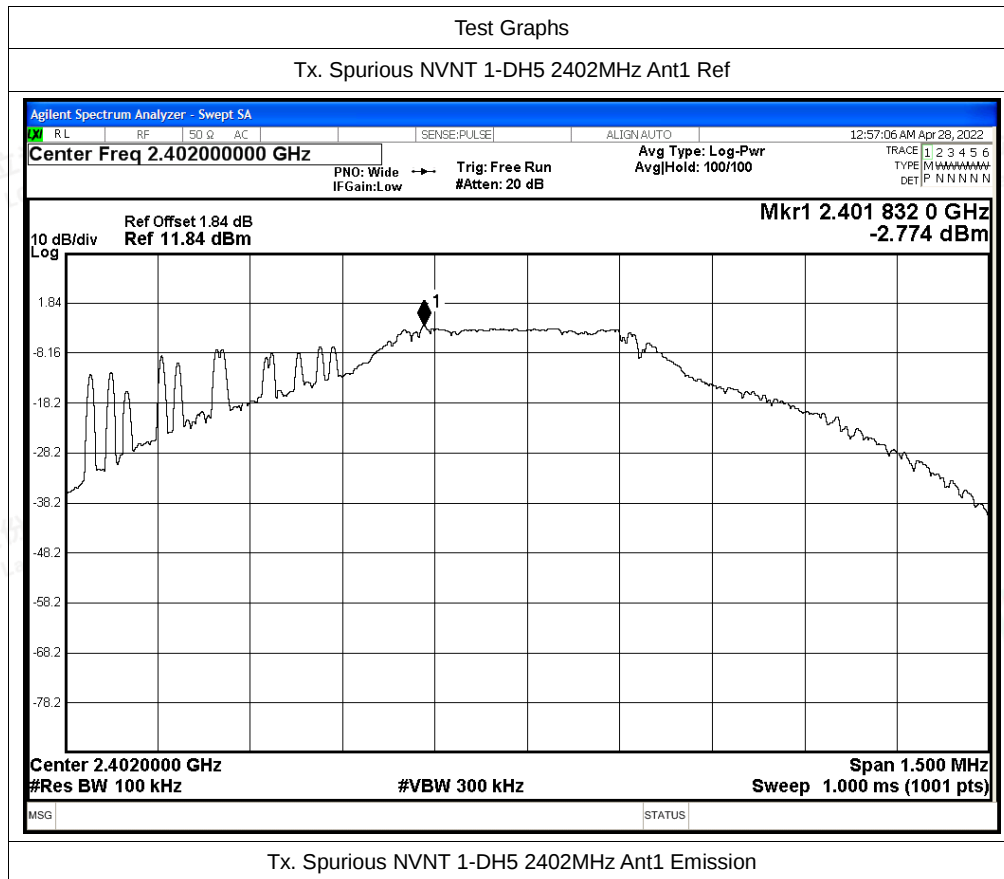
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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-52.68	-20	Pass
NVNT	1-DH5	2441	Ant1	-49.51	-20	Pass
NVNT	1-DH5	2480	Ant1	-38.06	-20	Pass

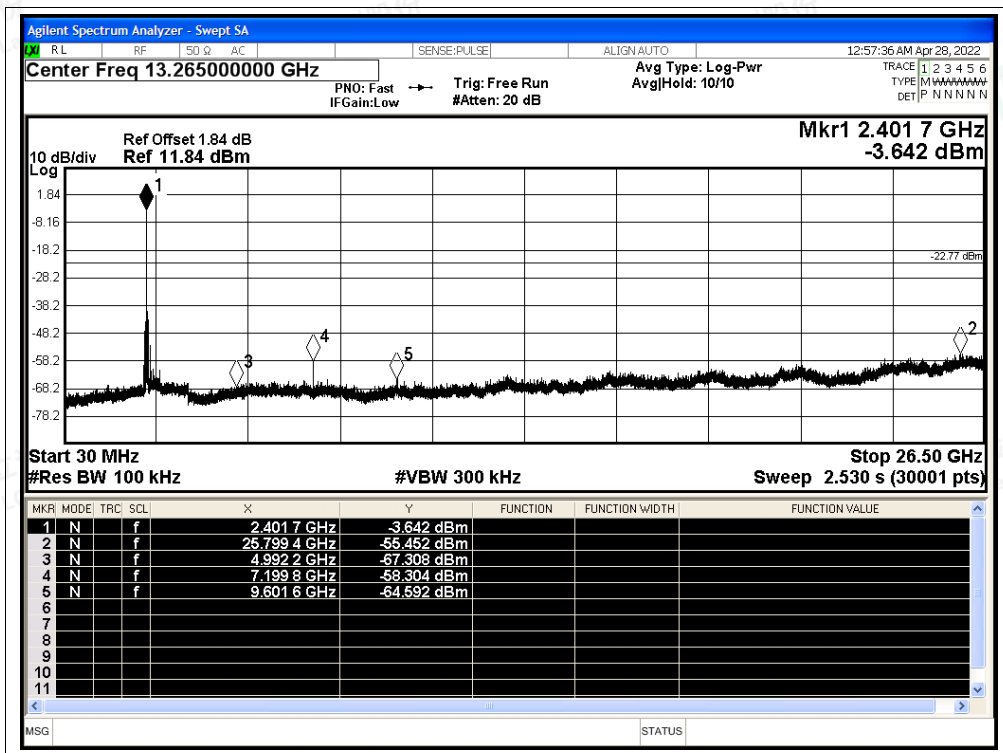


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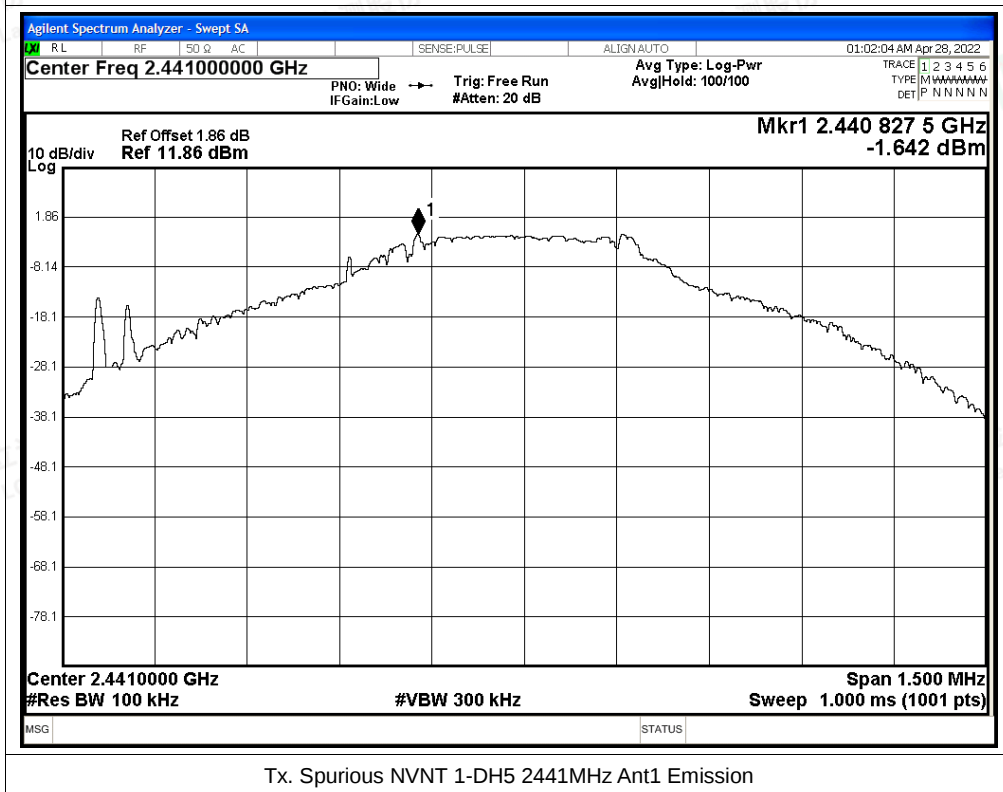
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

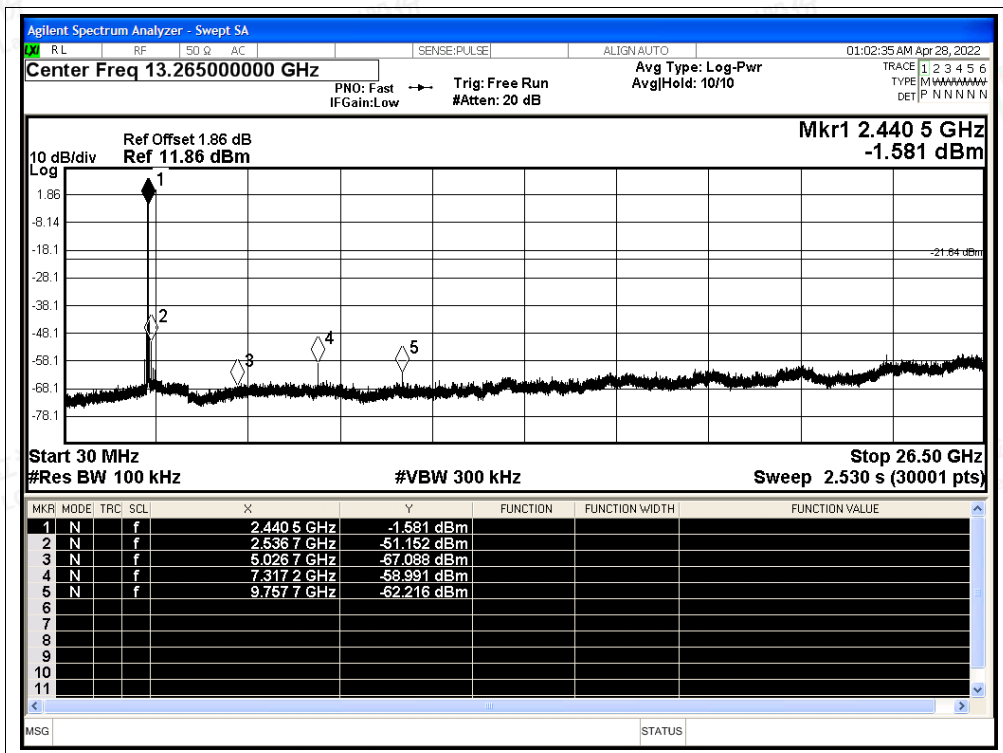


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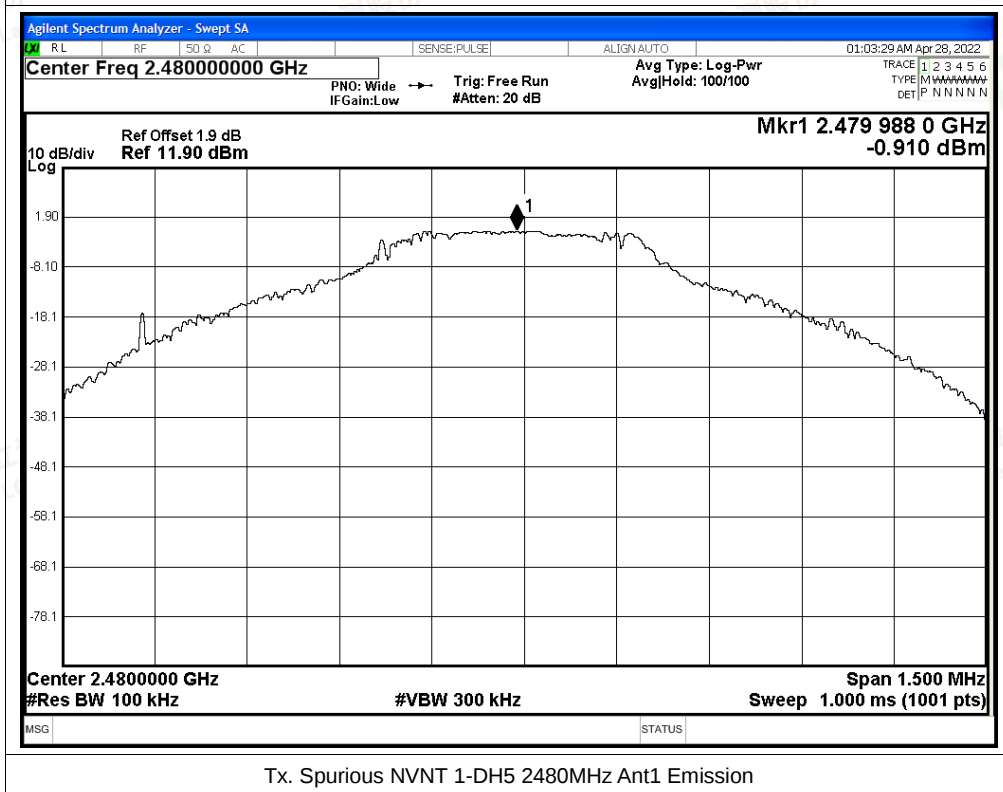
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

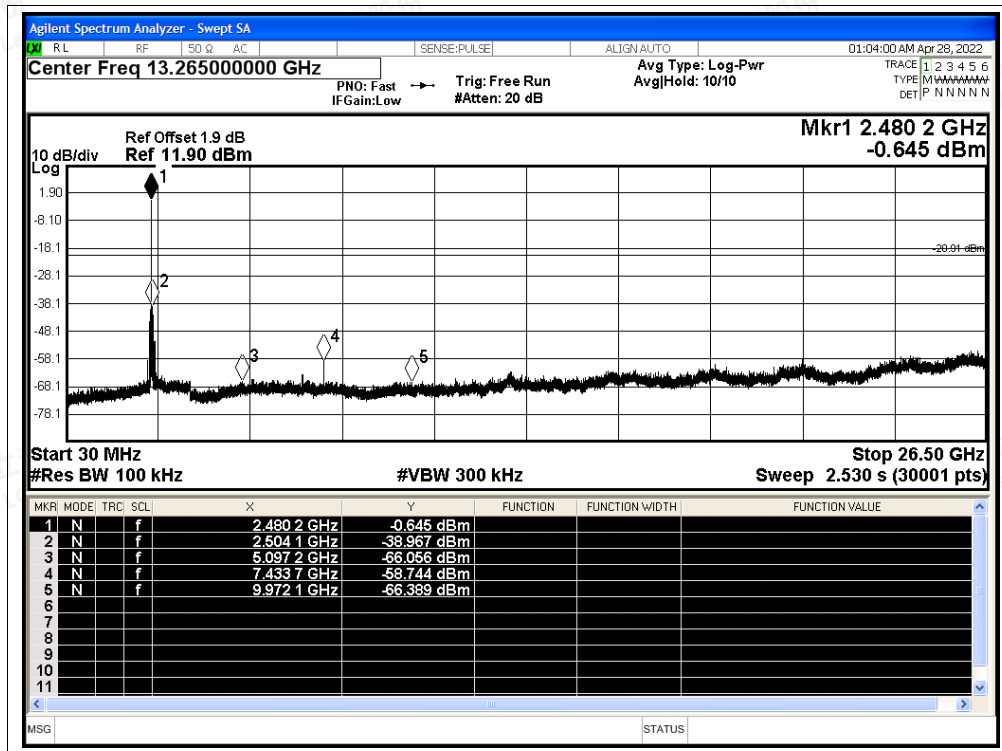


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A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	No-Hopping	2310	-49.58	2	47.68	Peak	74	Pass
NVNT	1-DH5	2402	No-Hopping	2310	-60.29	2	36.97	Average	54	Pass
NVNT	1-DH5	2402	No-Hopping	2377.872	-41.33	2	55.93	Peak	74	Pass
NVNT	1-DH5	2402	No-Hopping	2378.064	-44.41	2	52.85	Average	54	Pass
NVNT	1-DH5	2402	No-Hopping	2390	-45.16	2	52.1	Peak	74	Pass
NVNT	1-DH5	2402	No-Hopping	2390	-51.61	2	45.65	Average	54	Pass
NVNT	1-DH5	2480	No-Hopping	2483.5	-29.23	2	68.03	Peak	74	Pass
NVNT	1-DH5	2480	No-Hopping	2483.5	-51.22	2	46.04	Average	54	Pass
NVNT	1-DH5	2480	No-Hopping	2484.16	-28.35	2	68.91	Peak	74	Pass
NVNT	1-DH5	2480	No-Hopping	2492.008	-47.18	2	50.08	Average	54	Pass
NVNT	1-DH5	2480	No-Hopping	2500	-48.21	2	49.05	Peak	74	Pass
NVNT	1-DH5	2480	No-Hopping	2500	-58.98	2	38.28	Average	54	Pass



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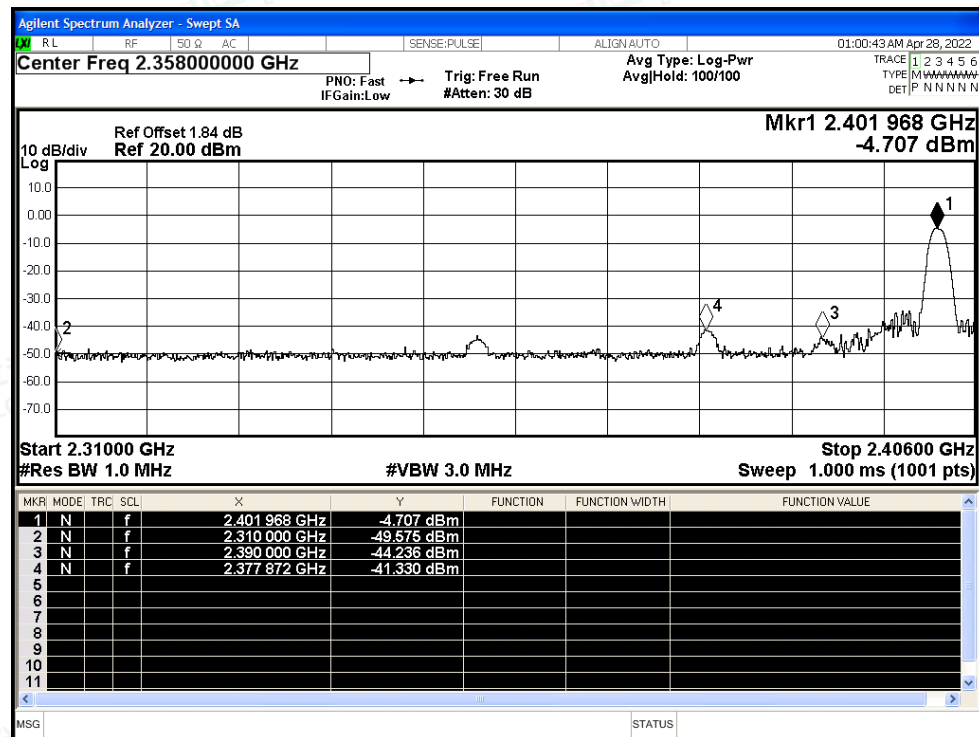
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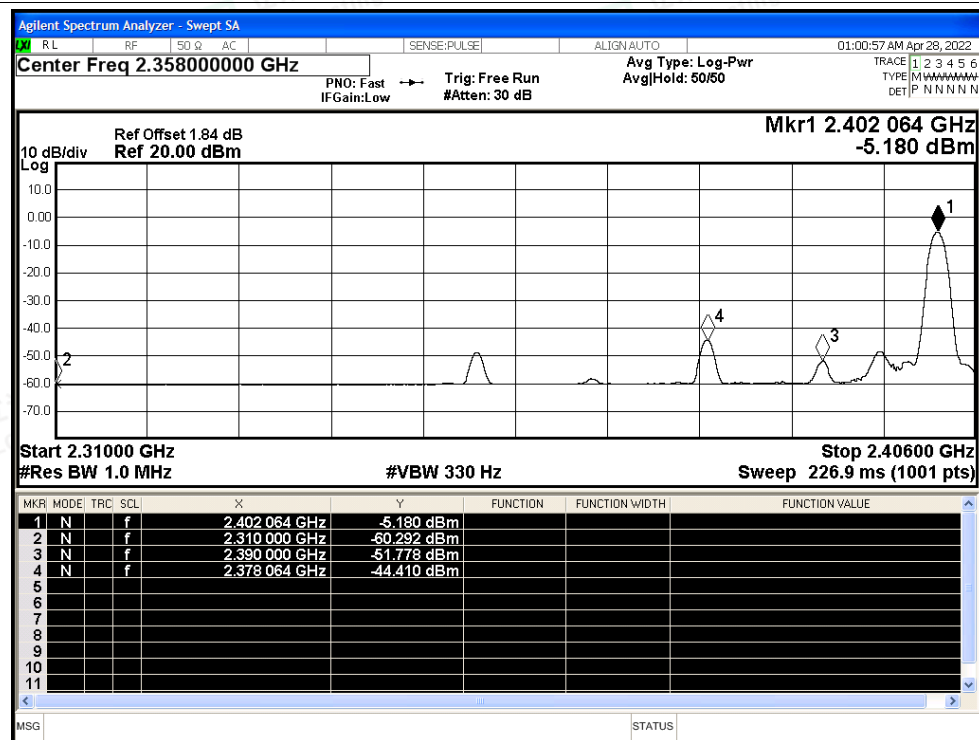


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



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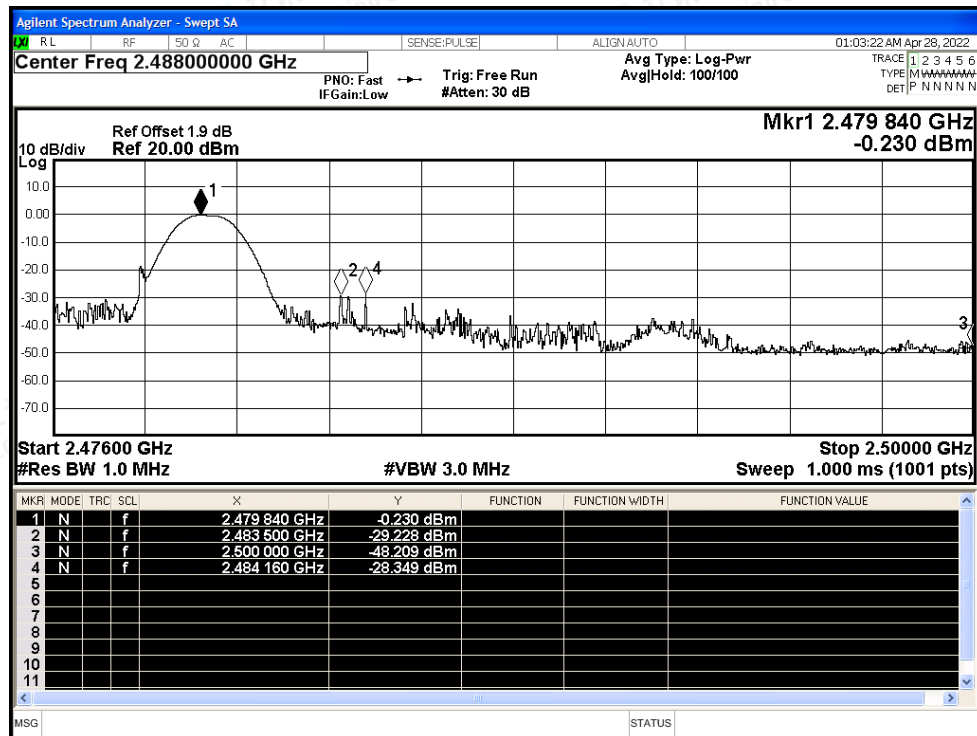
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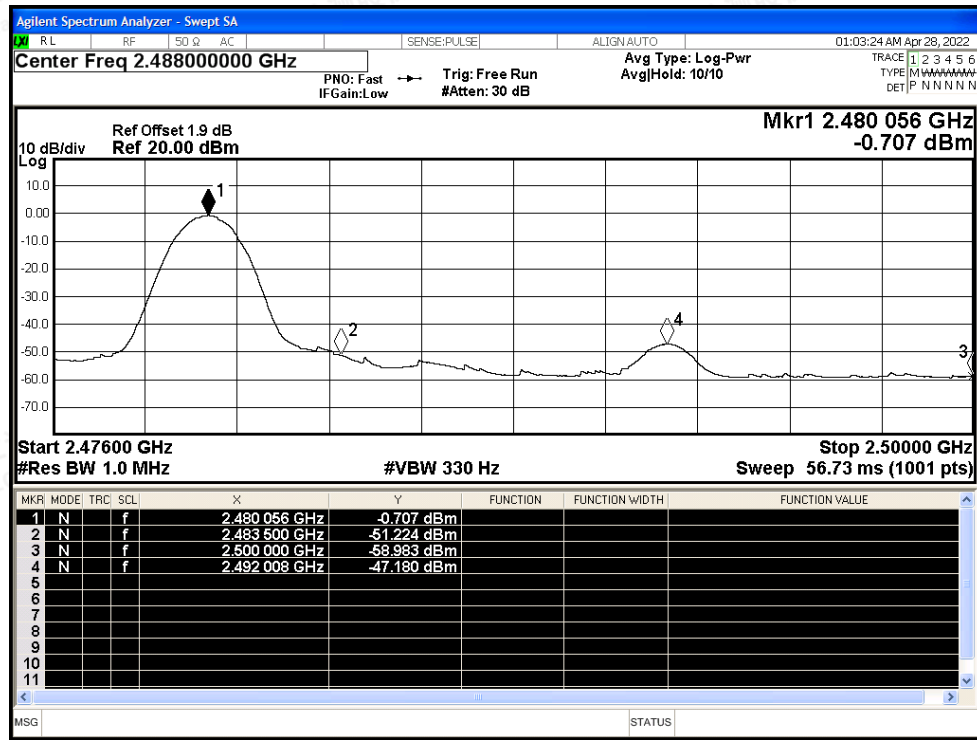
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



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