



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Karaoke Machine

Test Model: KA217

Environmental Conditions

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





A.1 -20dB Bandwidth

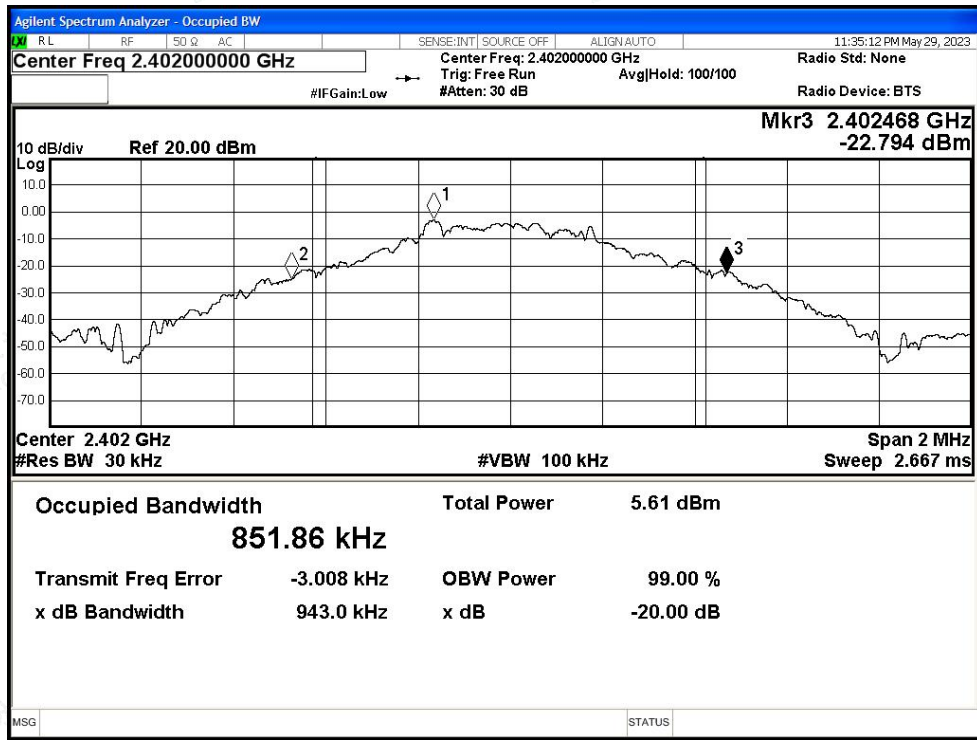
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.943	0	Pass
NVNT	1-DH5	2441	Ant1	0.943	0	Pass
NVNT	1-DH5	2480	Ant1	0.943	0	Pass
NVNT	2-DH5	2402	Ant1	1.282	0	Pass
NVNT	2-DH5	2441	Ant1	1.288	0	Pass
NVNT	2-DH5	2480	Ant1	1.284	0	Pass
NVNT	3-DH5	2402	Ant1	1.297	0	Pass
NVNT	3-DH5	2441	Ant1	1.305	0	Pass
NVNT	3-DH5	2480	Ant1	1.301	0	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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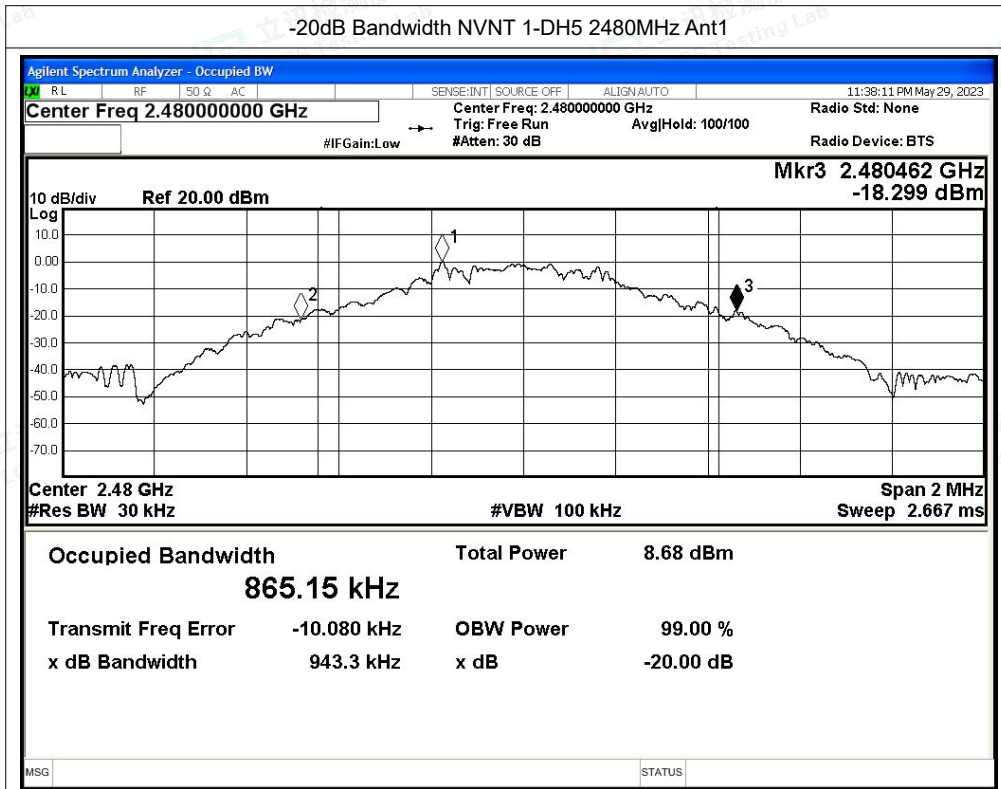
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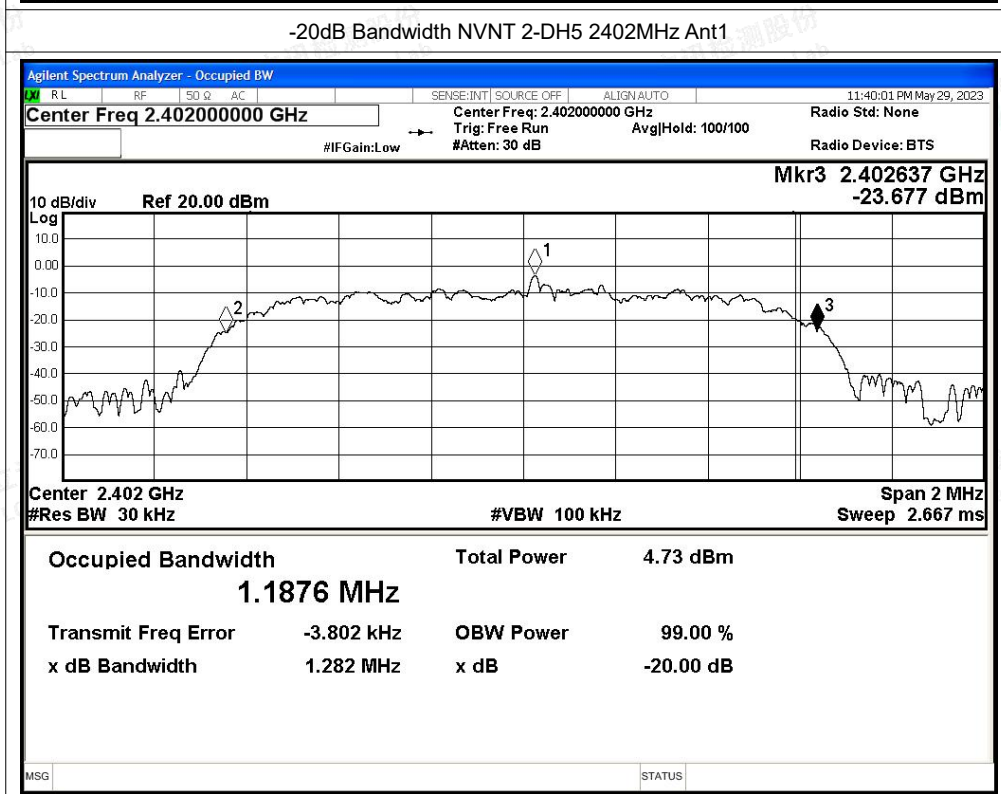
Scan code to check authenticity



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

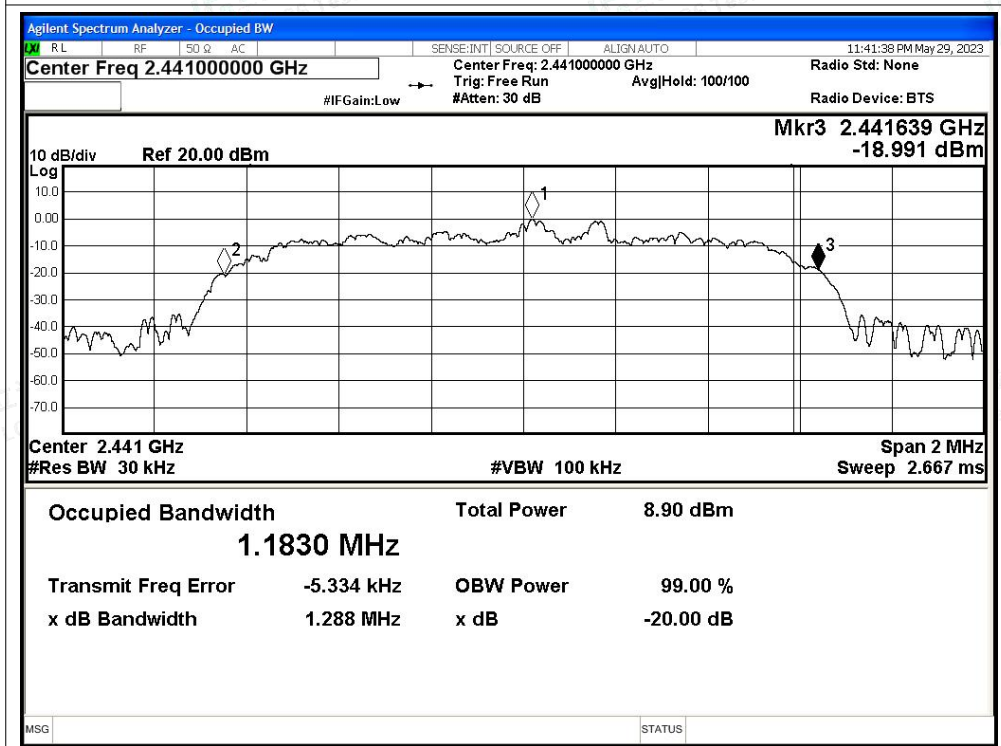


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

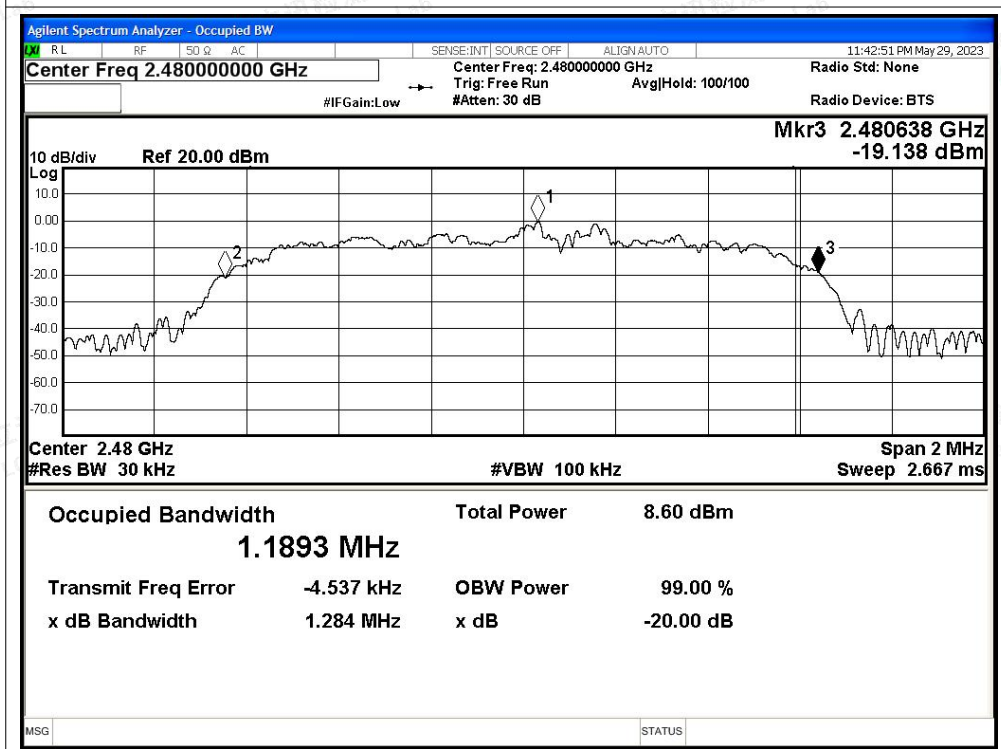




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

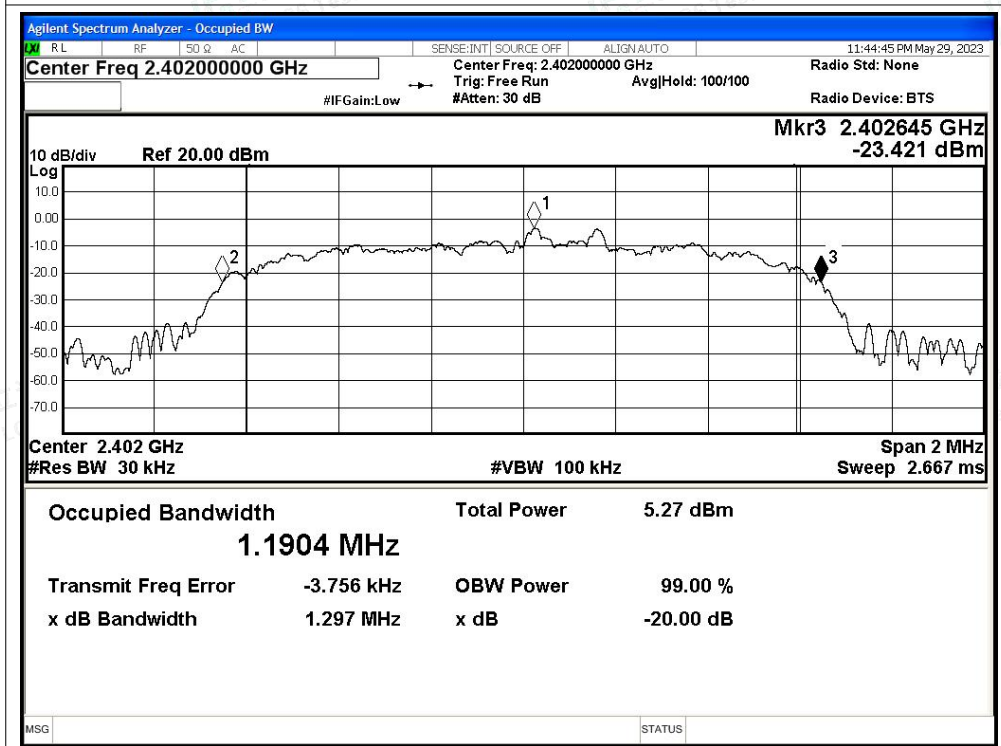


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

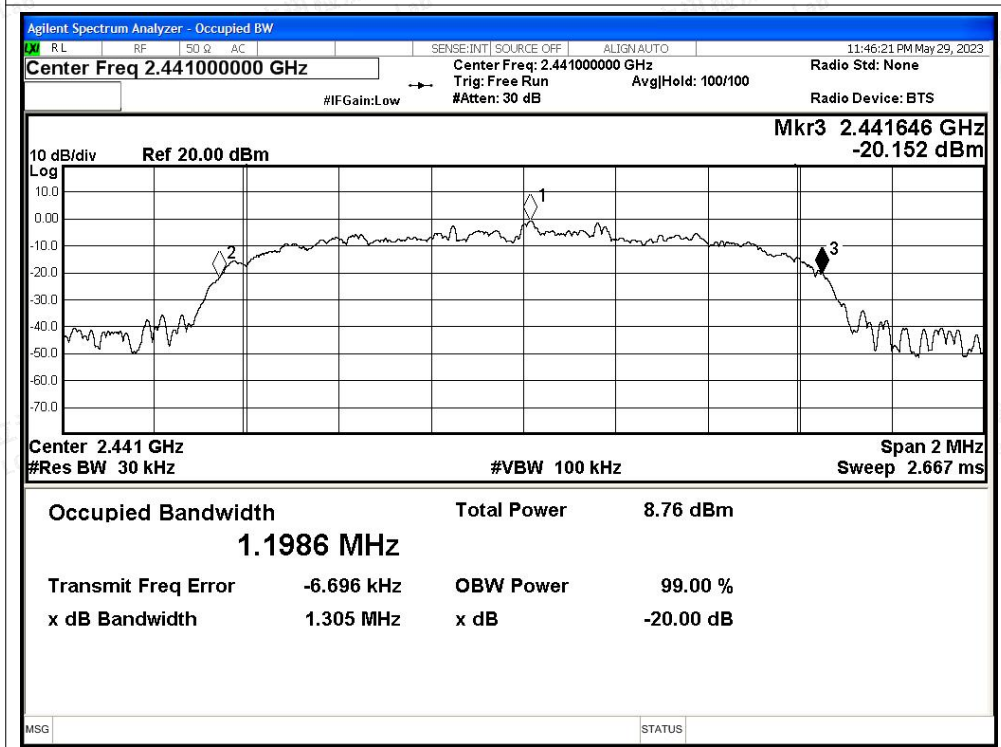




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

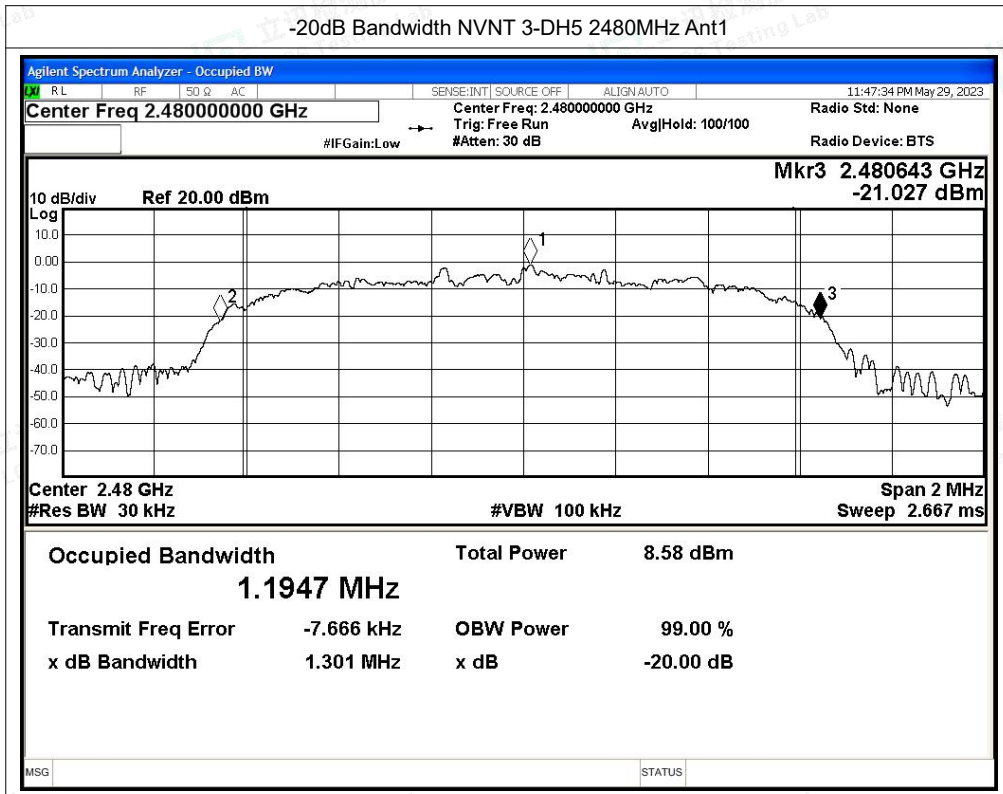


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

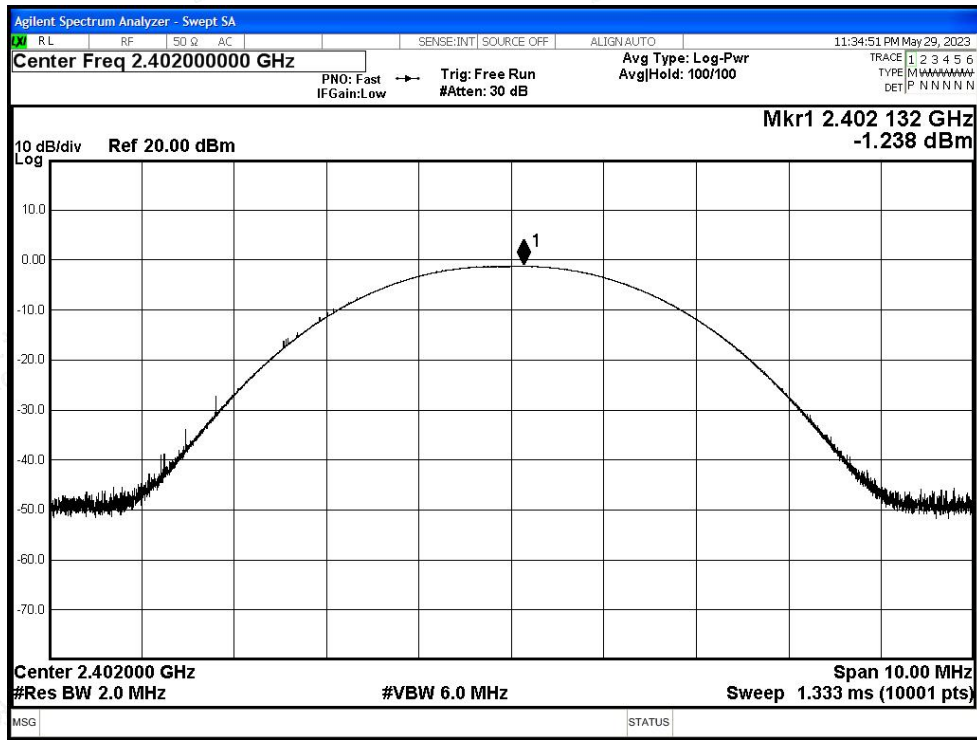
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-1.24	21	Pass
NVNT	1-DH5	2441	Ant1	-0.20	21	Pass
NVNT	1-DH5	2480	Ant1	-0.19	21	Pass
NVNT	2-DH5	2402	Ant1	-2.21	21	Pass
NVNT	2-DH5	2441	Ant1	-2.11	21	Pass
NVNT	2-DH5	2480	Ant1	-2.19	21	Pass
NVNT	3-DH5	2402	Ant1	-1.83	21	Pass
NVNT	3-DH5	2441	Ant1	-1.74	21	Pass
NVNT	3-DH5	2480	Ant1	-1.81	21	Pass



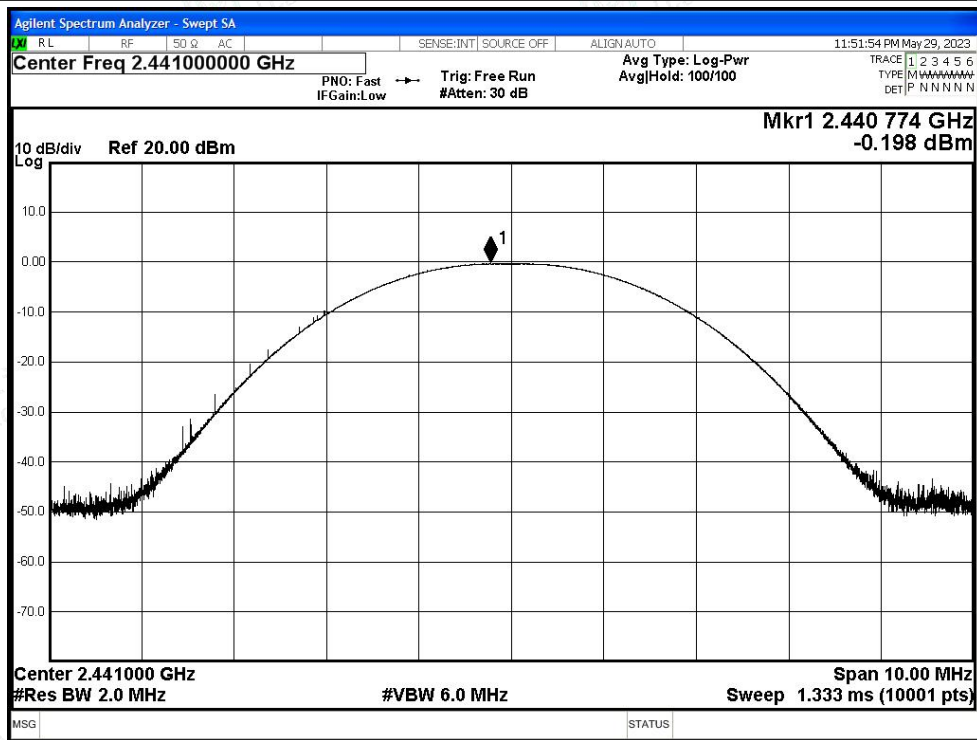


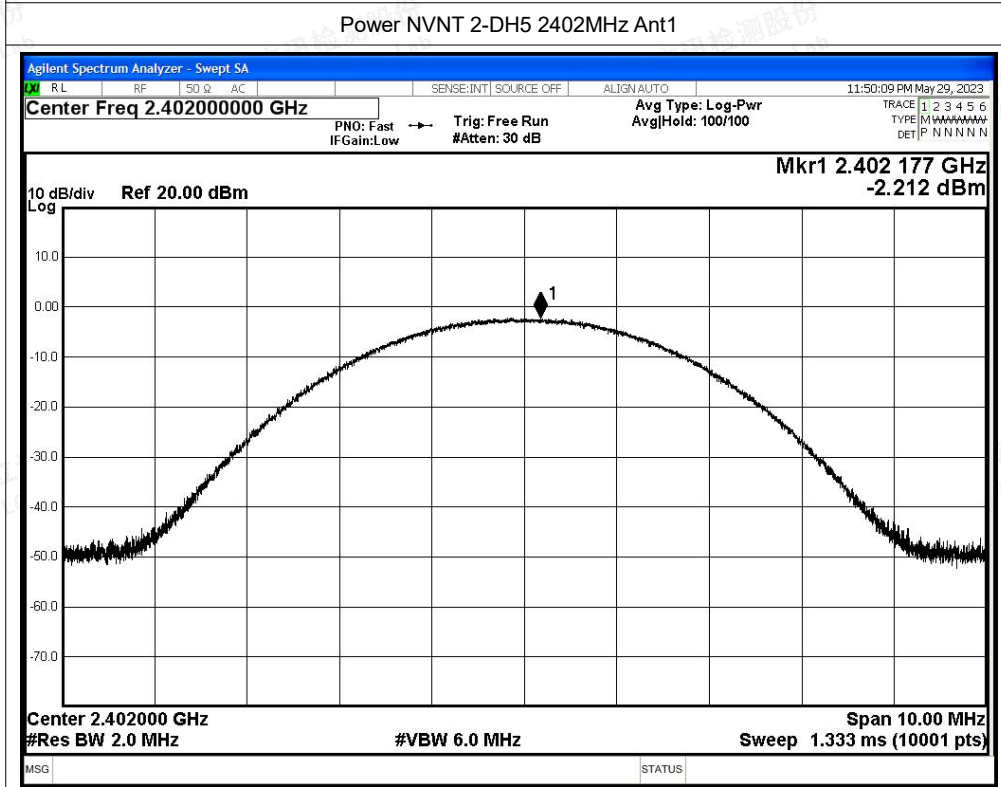
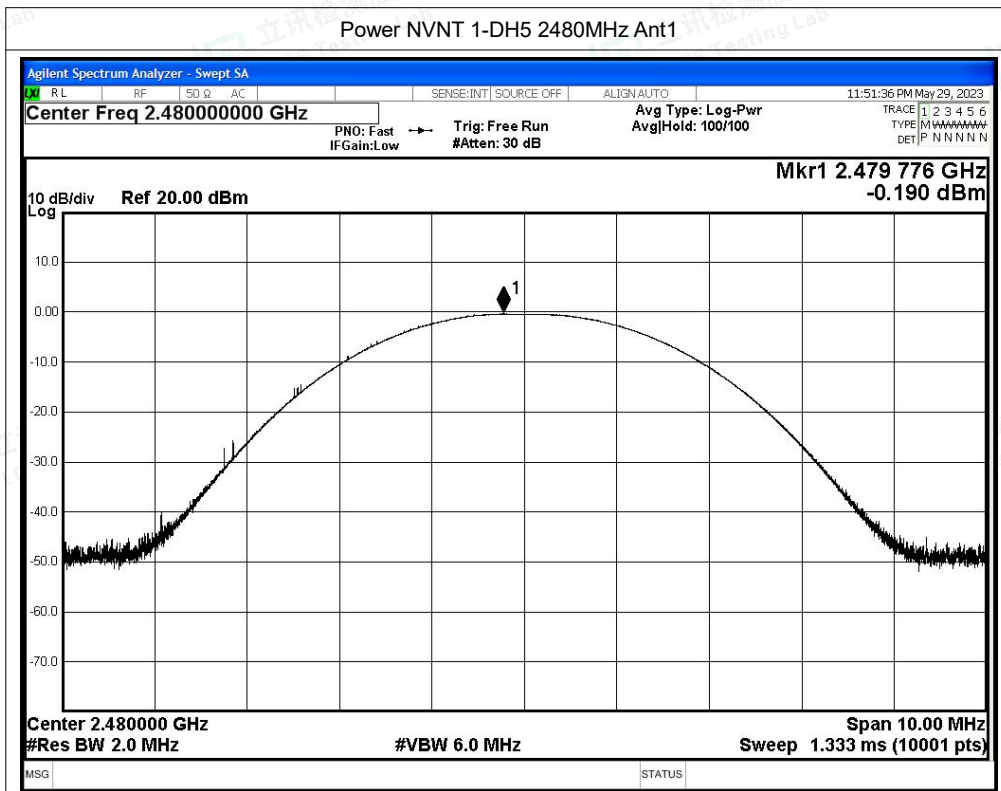
Test Graphs

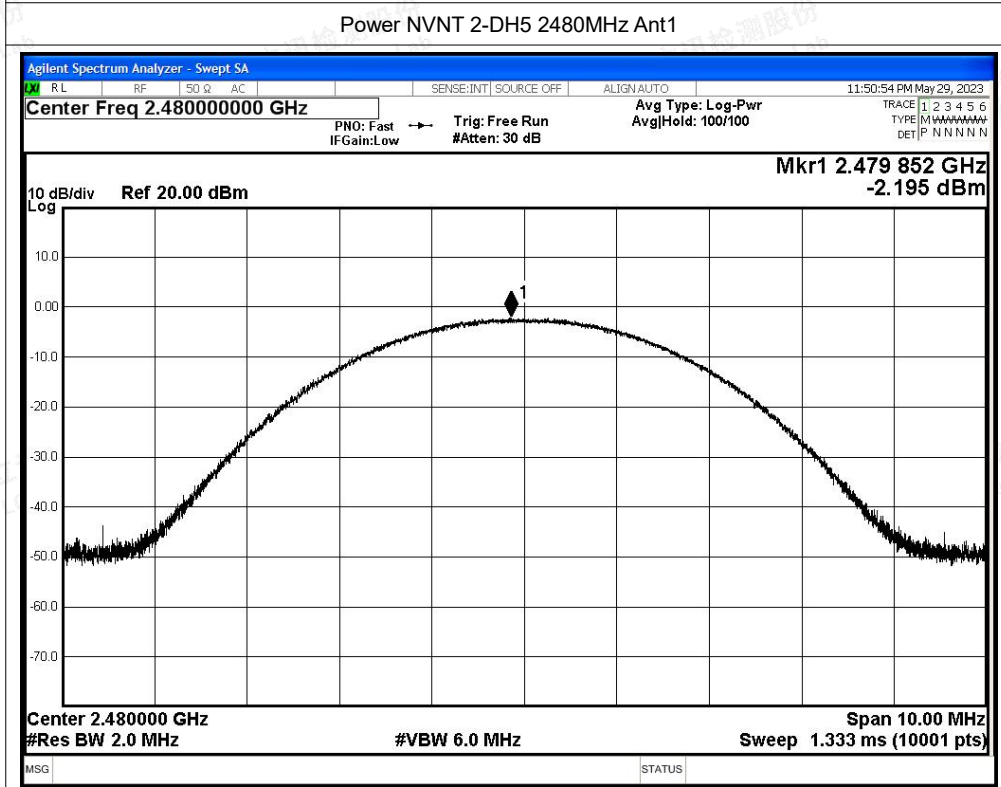
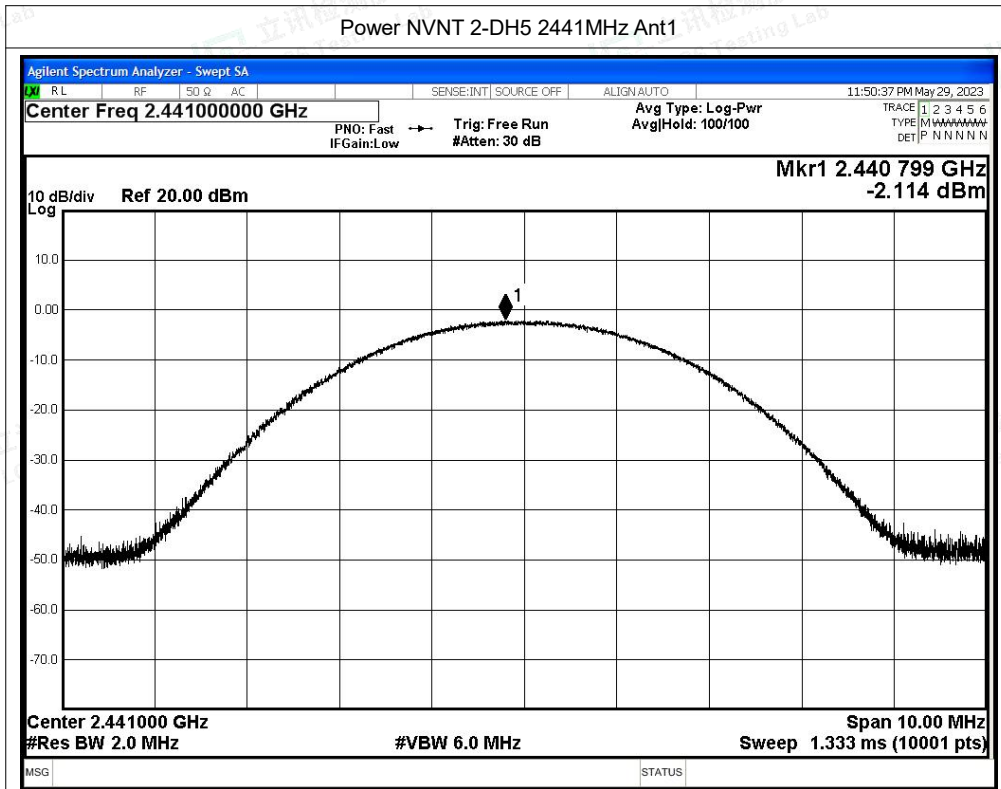
Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

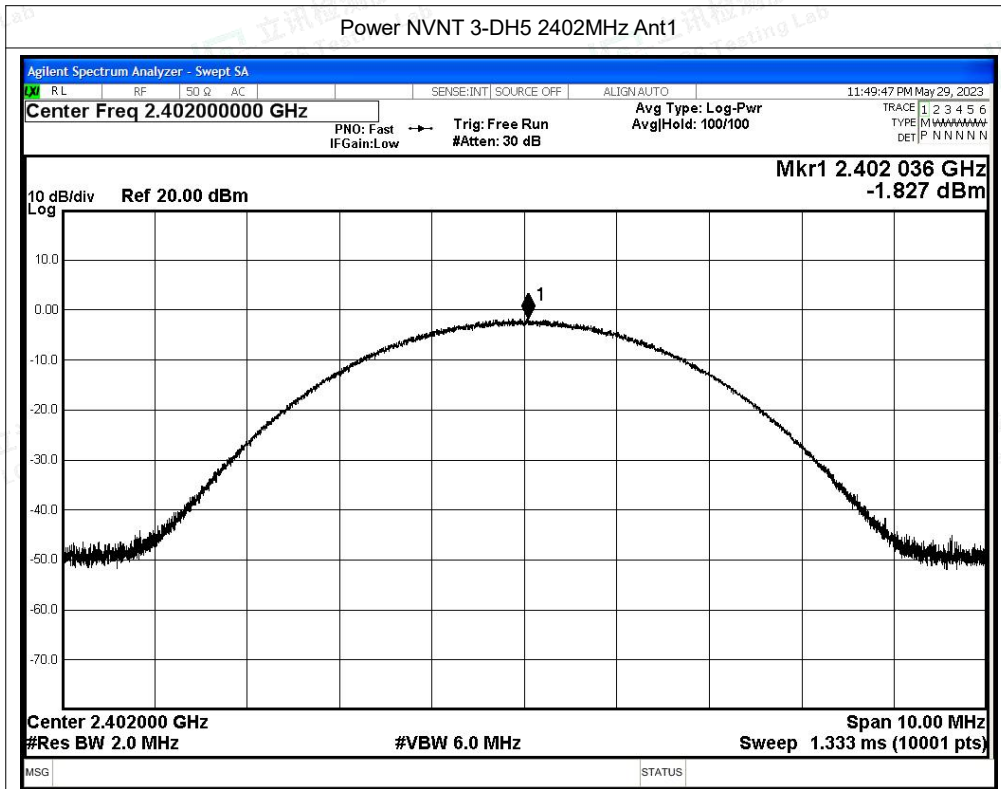




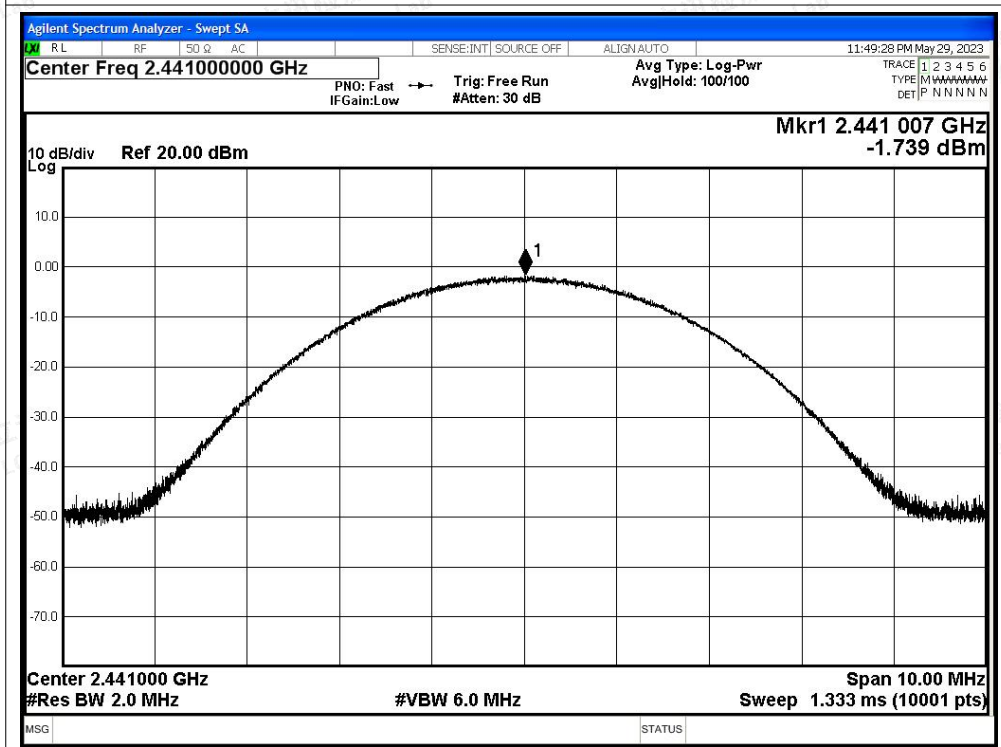


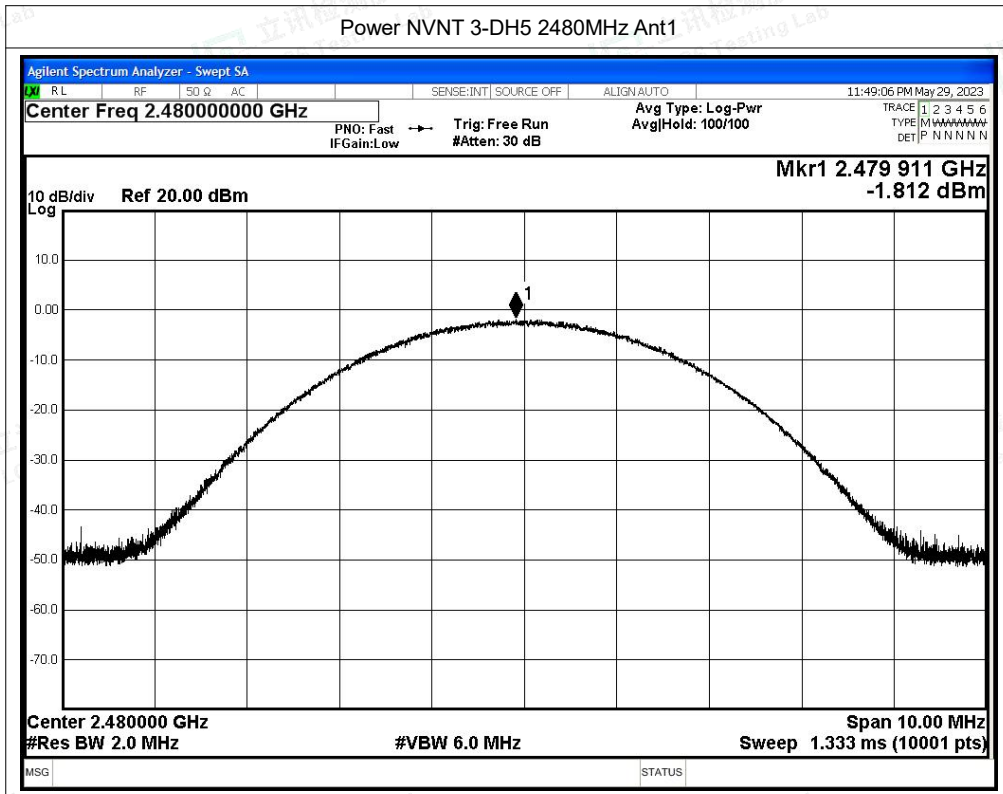


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

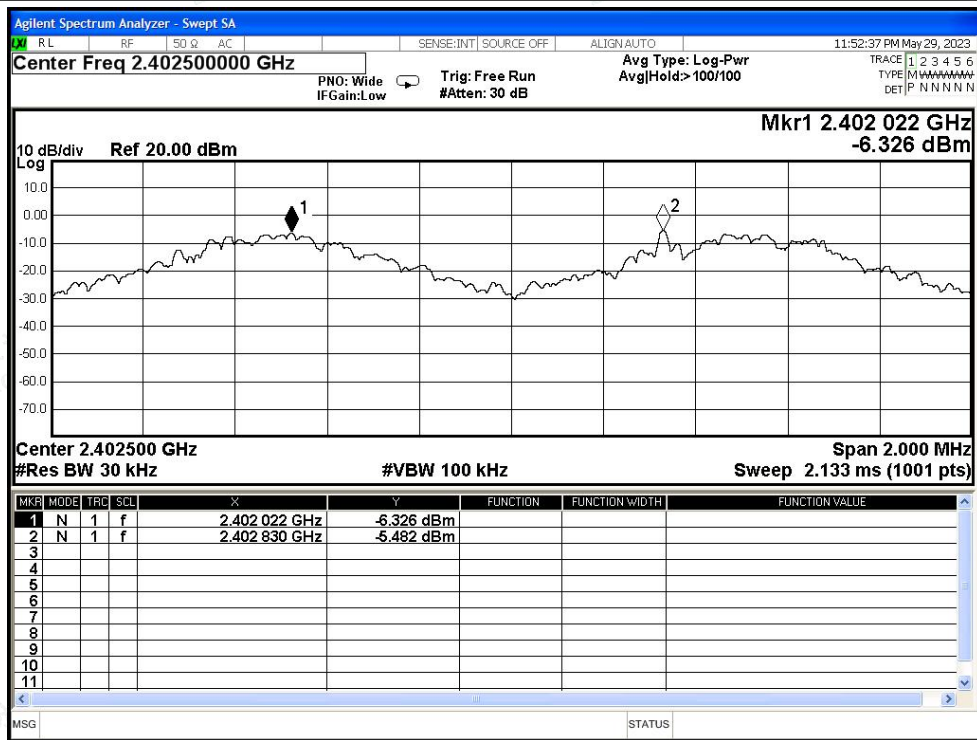
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.022	2402.83	0.808	0.629	Pass
NVNT	2-DH5	Ant1	2401.994	2402.98	0.986	0.859	Pass
NVNT	3-DH5	Ant1	2402.062	2403.026	0.964	0.870	Pass



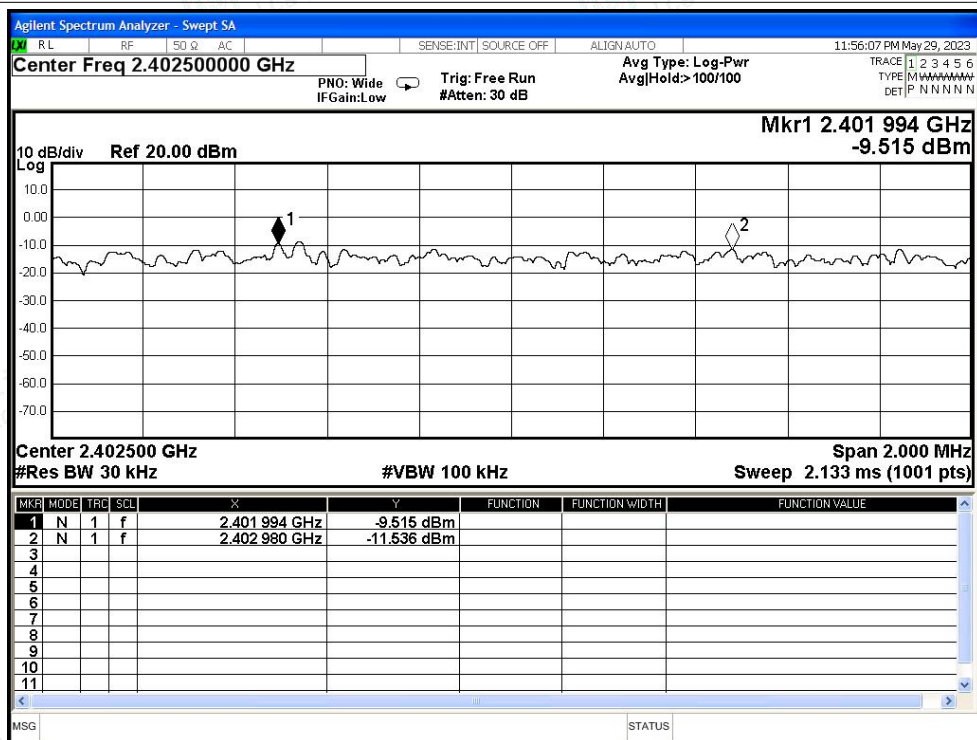


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

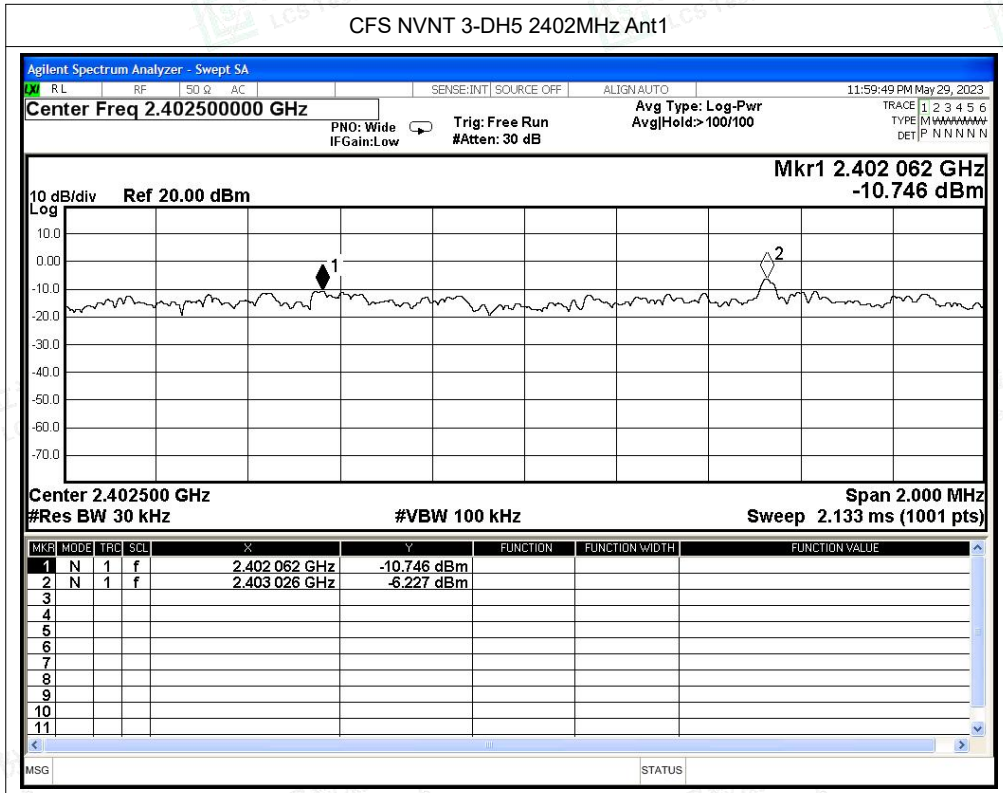


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A.4 Dwell Time

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	2.896	327.248	113	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.883	308.481	107	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.883	262.353	91	31600	400	Pass

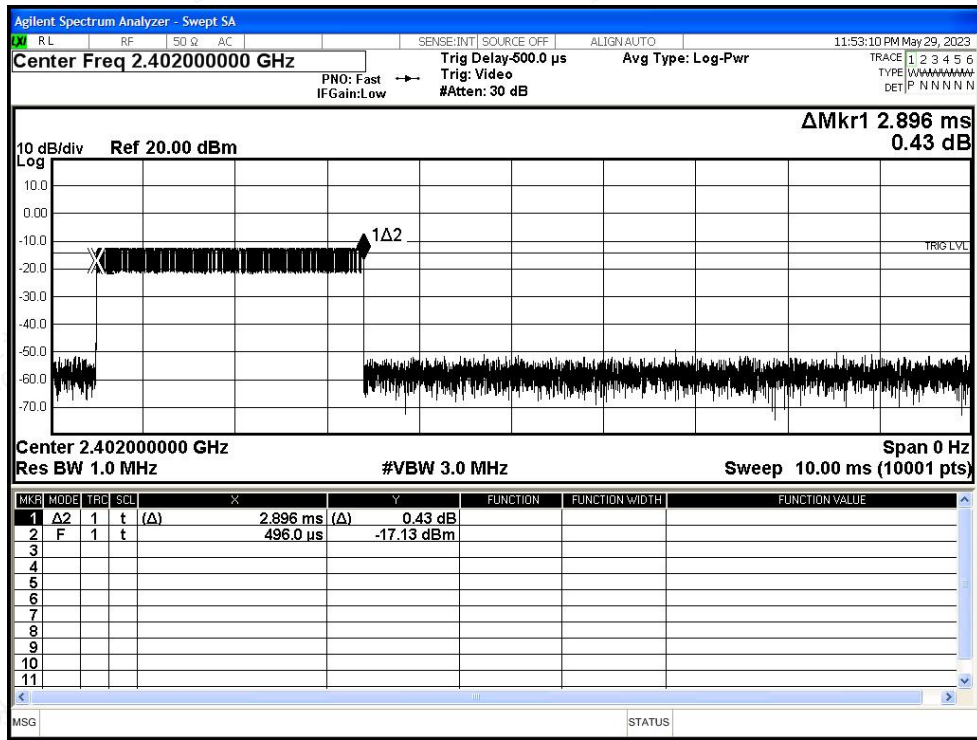


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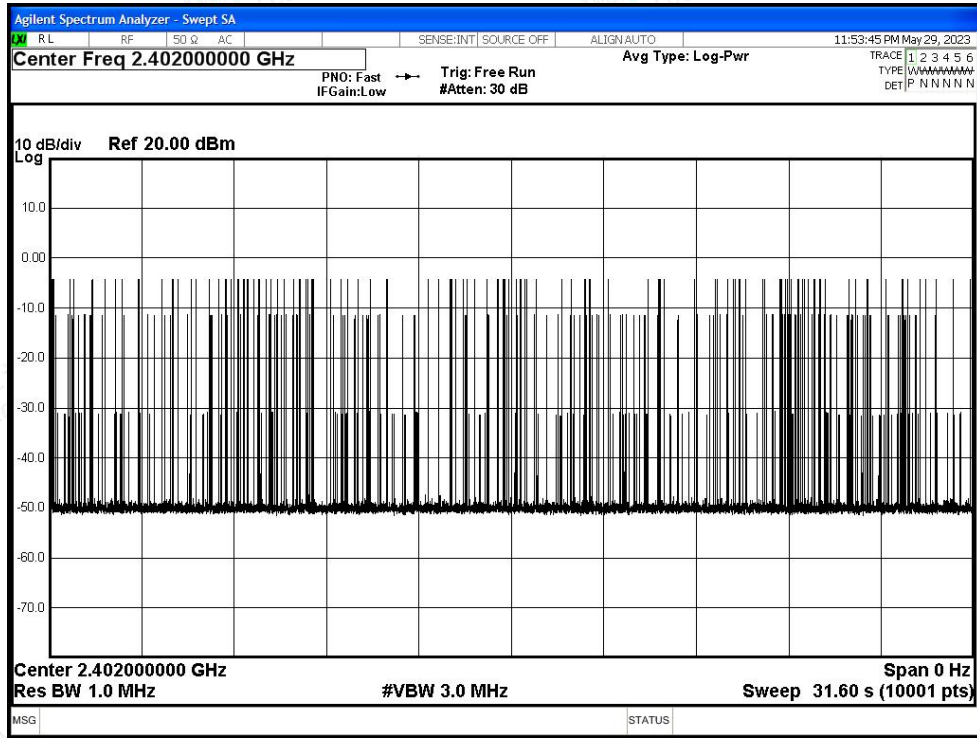


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

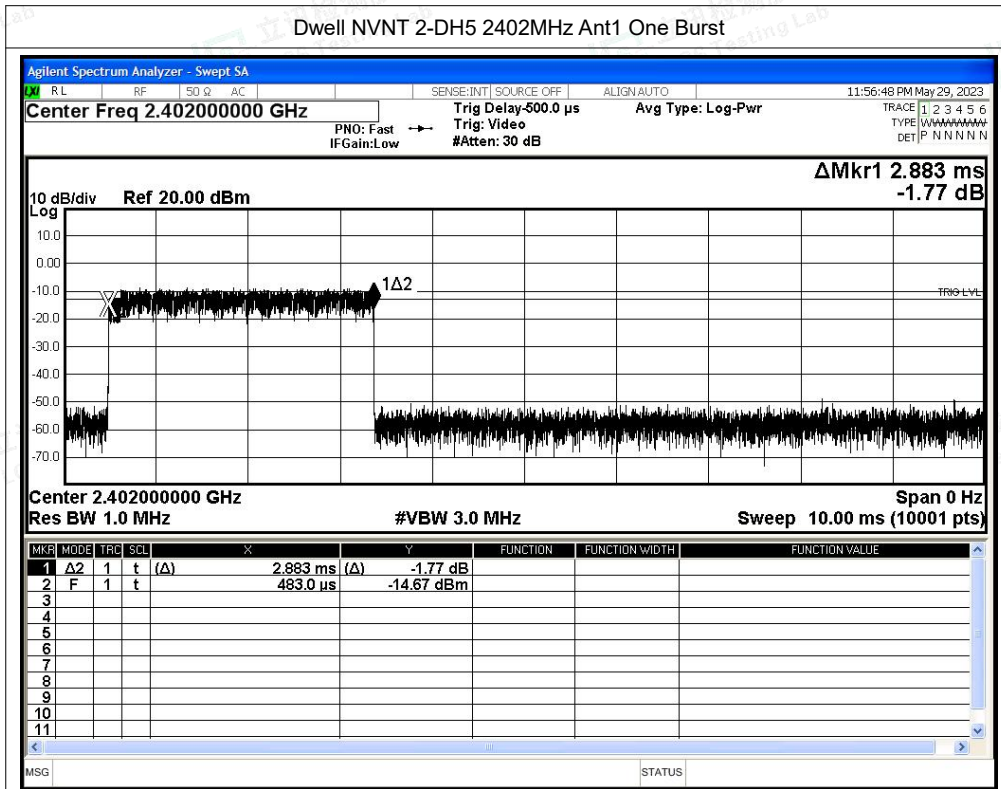


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

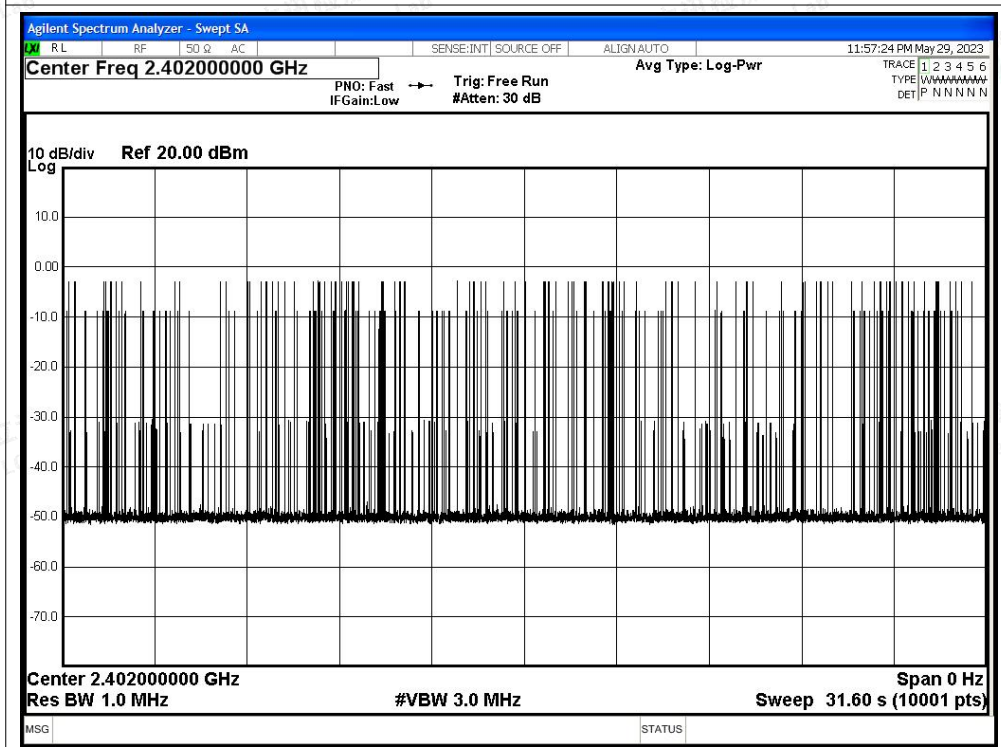




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

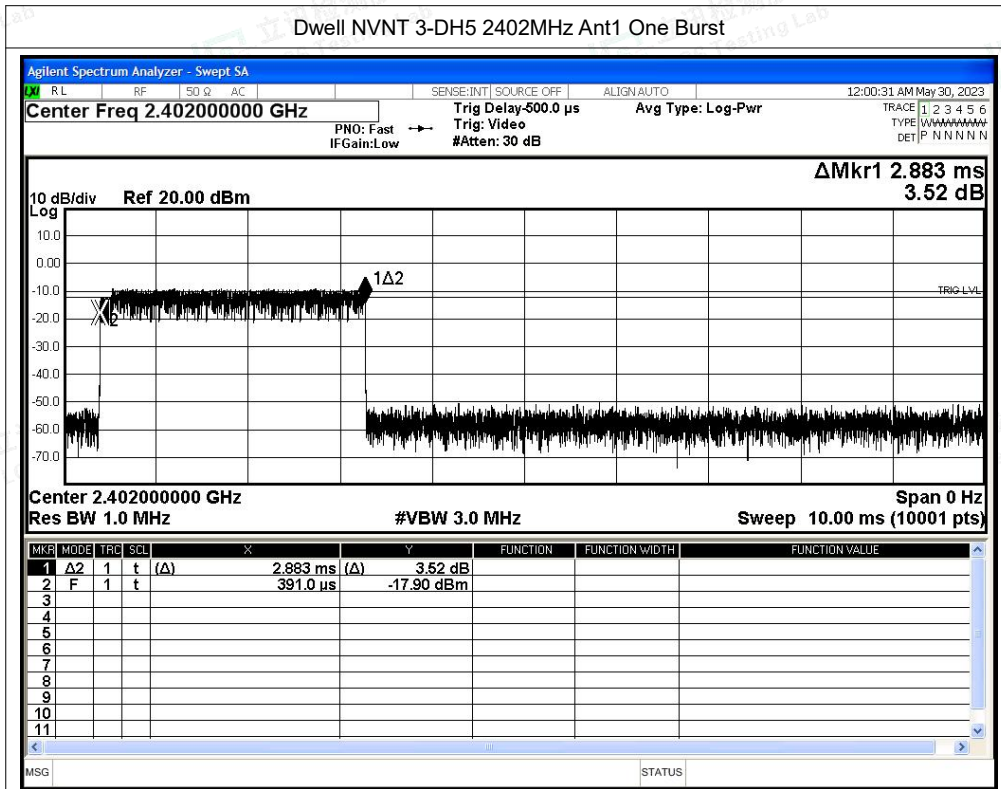


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

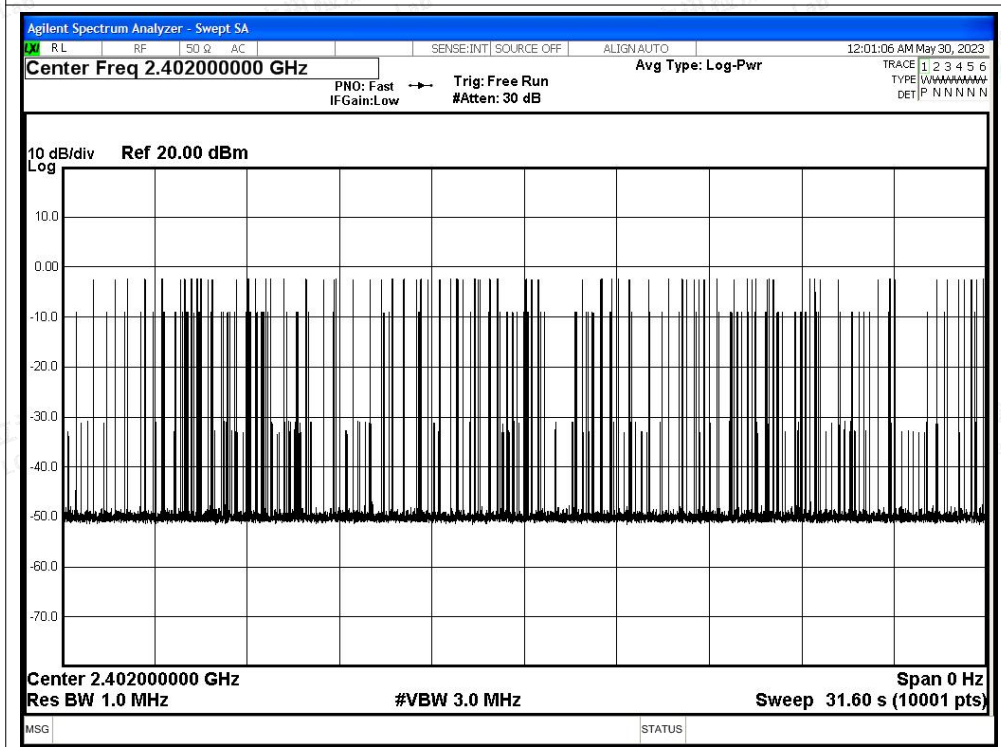




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

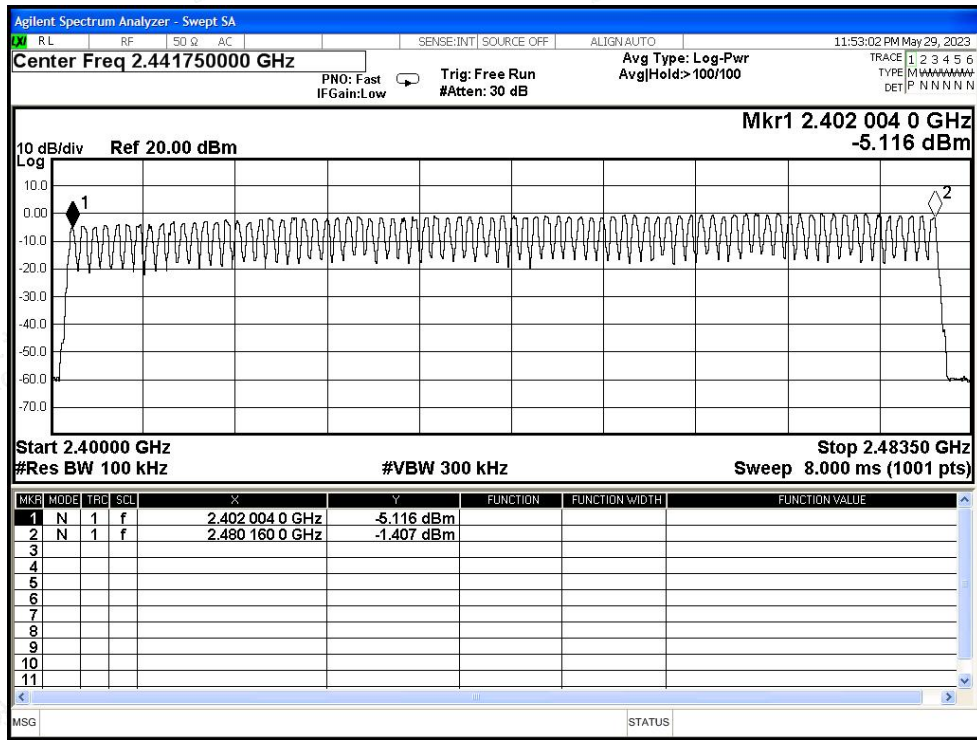
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



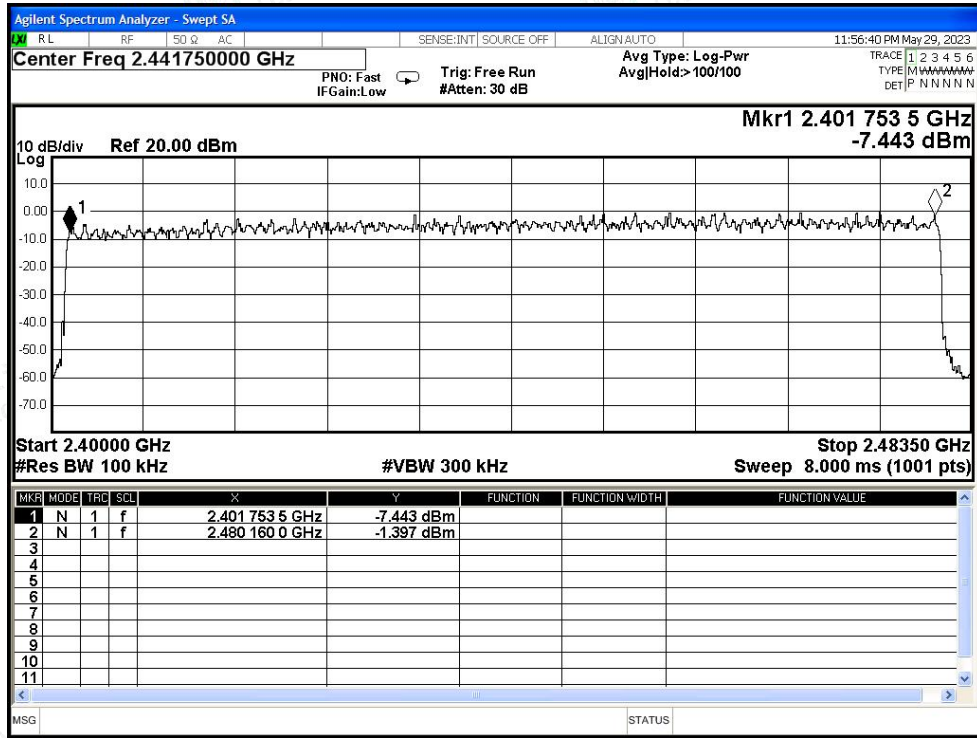


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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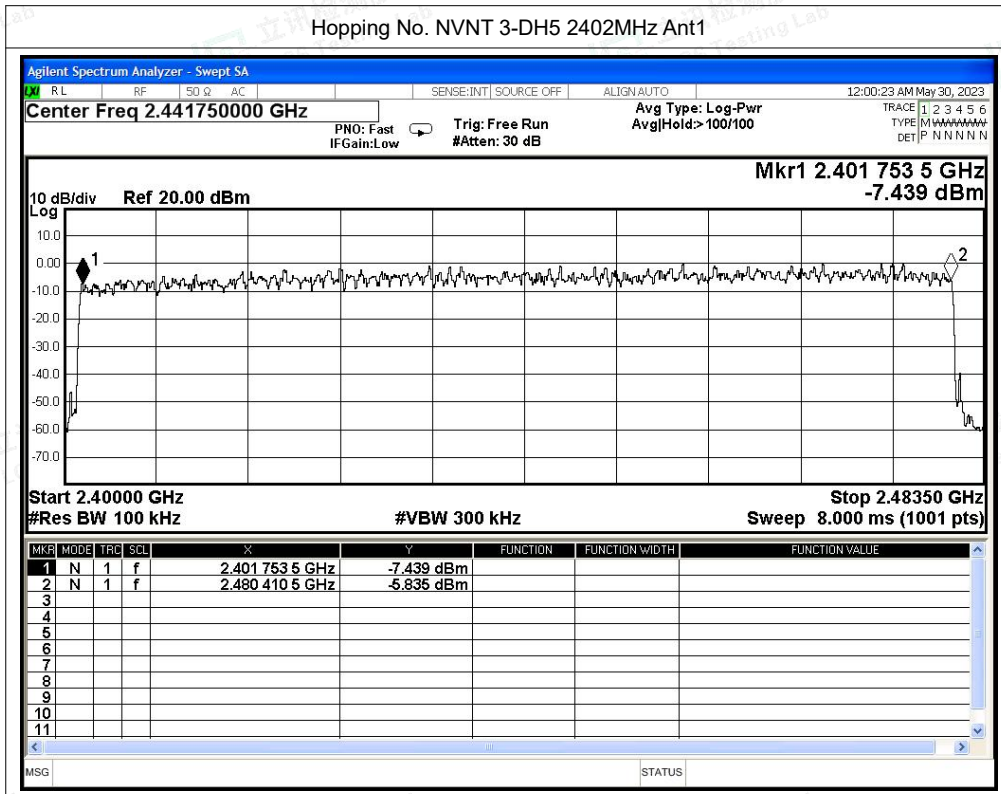
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Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

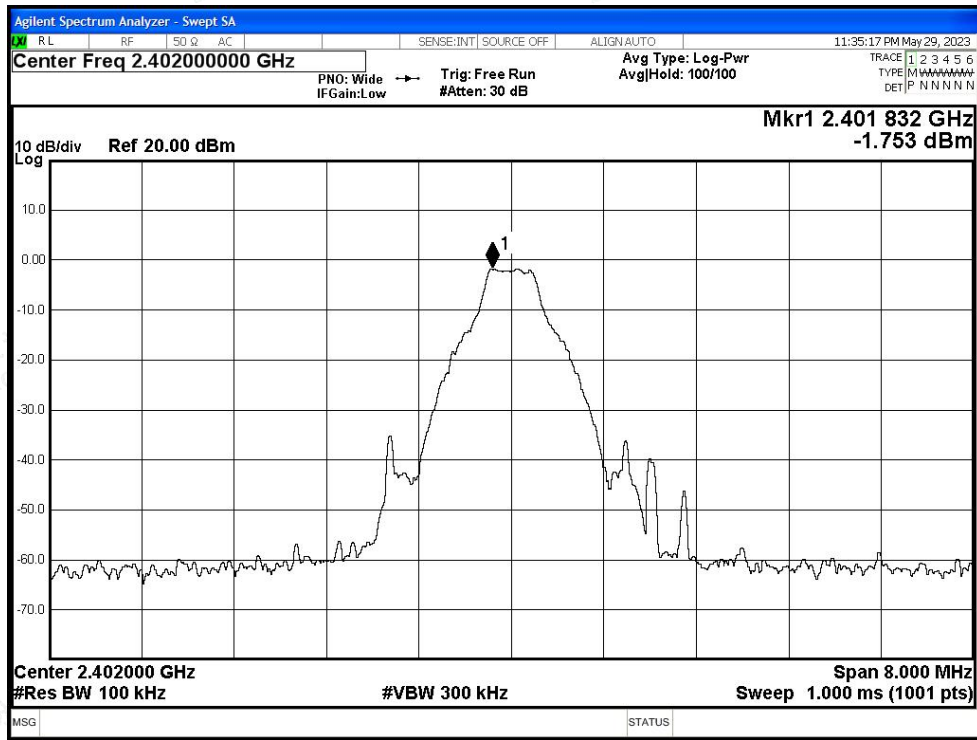
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.83	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-61.12	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-56.41	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-60.23	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.44	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-61.18	-20	Pass



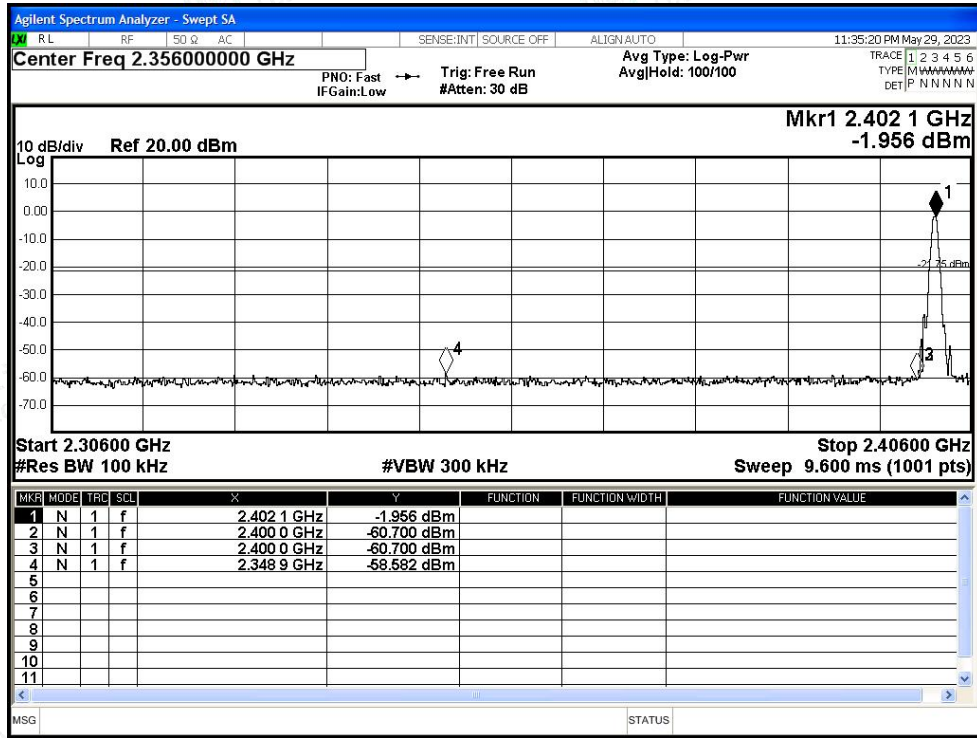


Test Graphs

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



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



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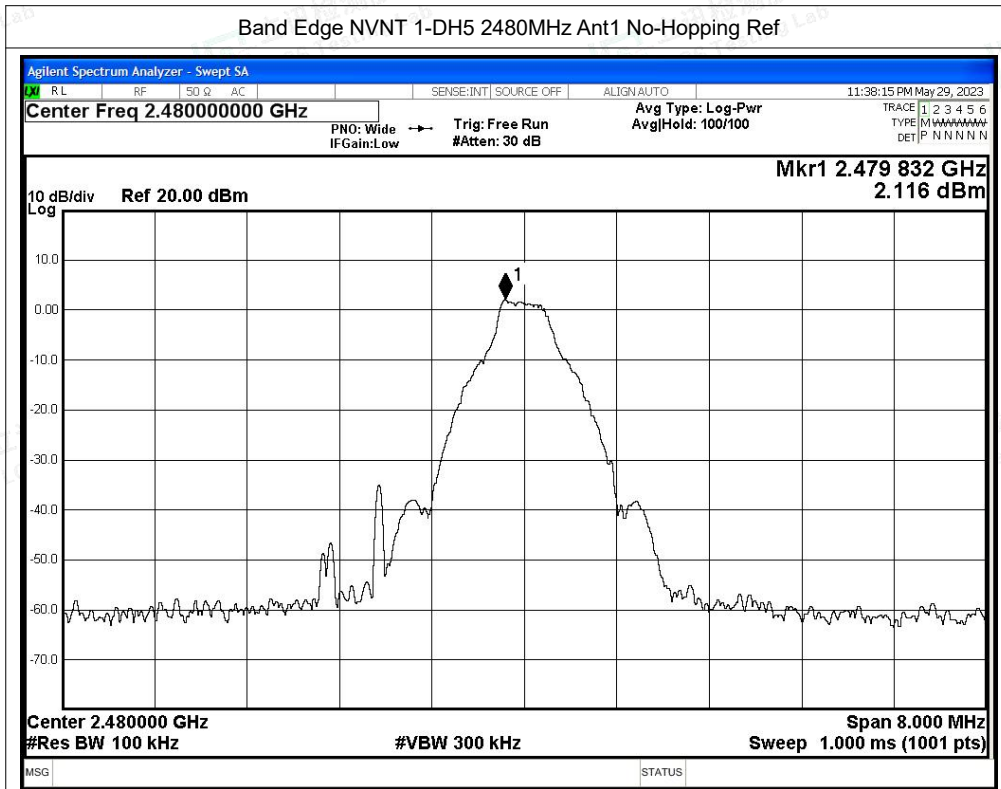
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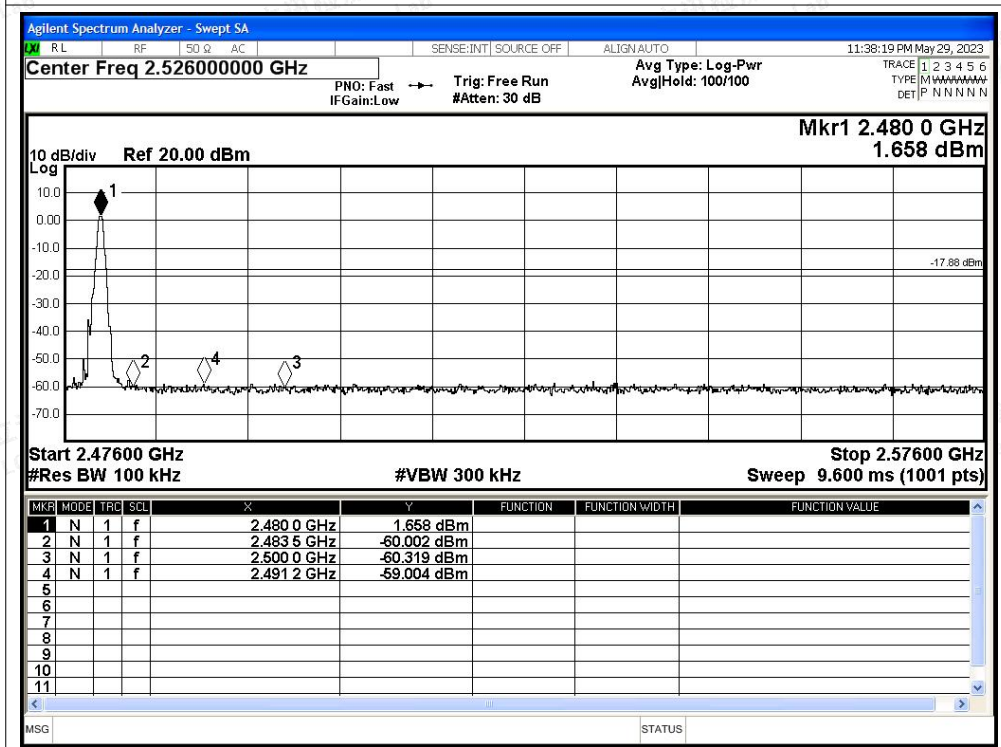
Scan code to check authenticity



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

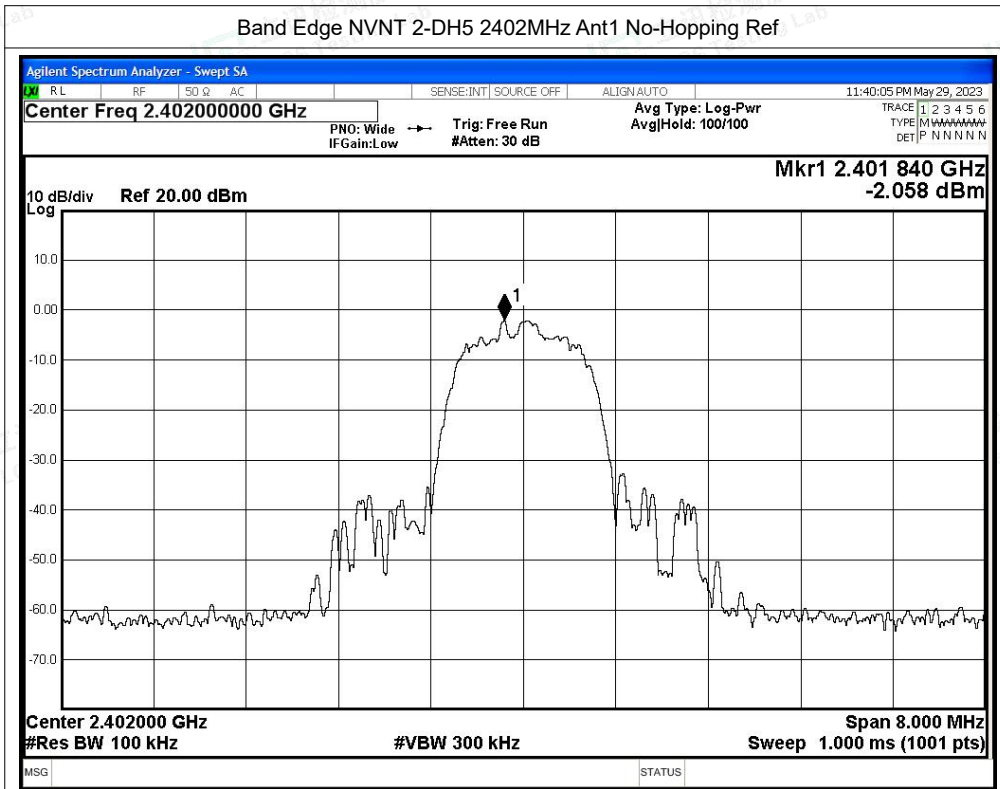


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

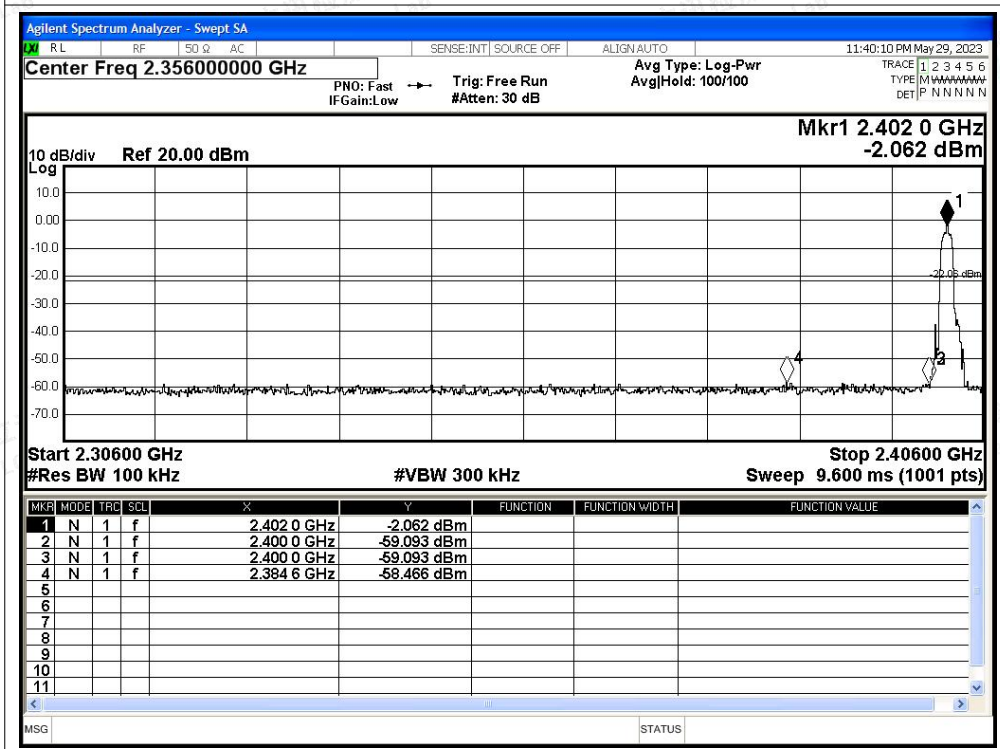




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



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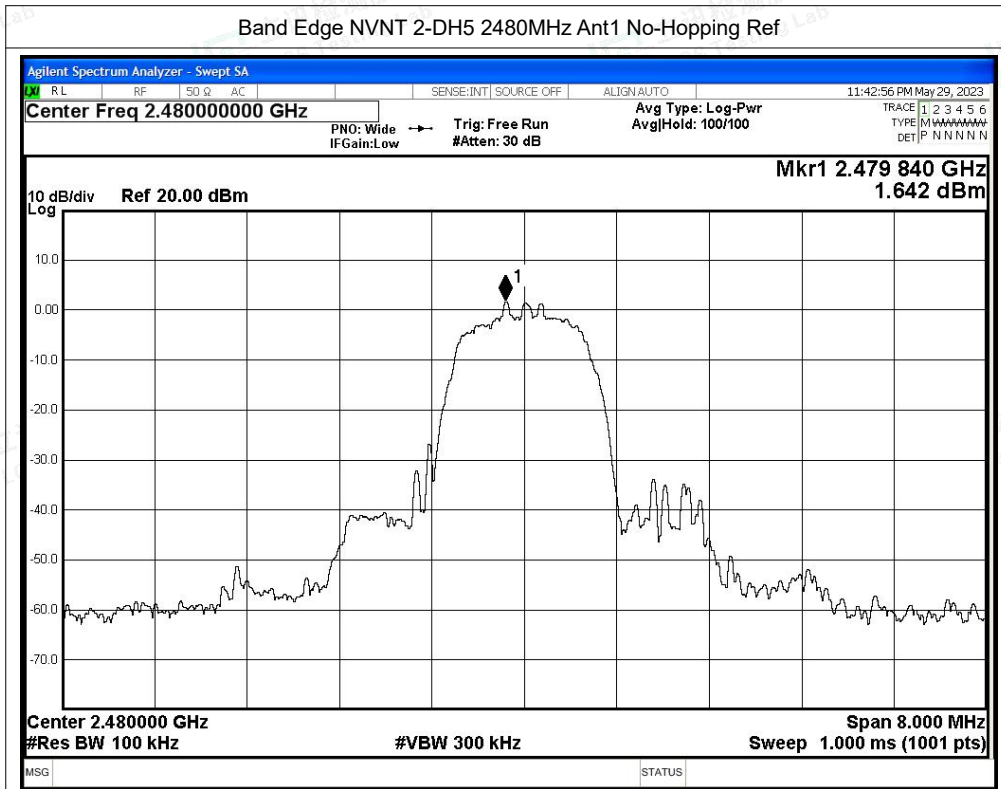
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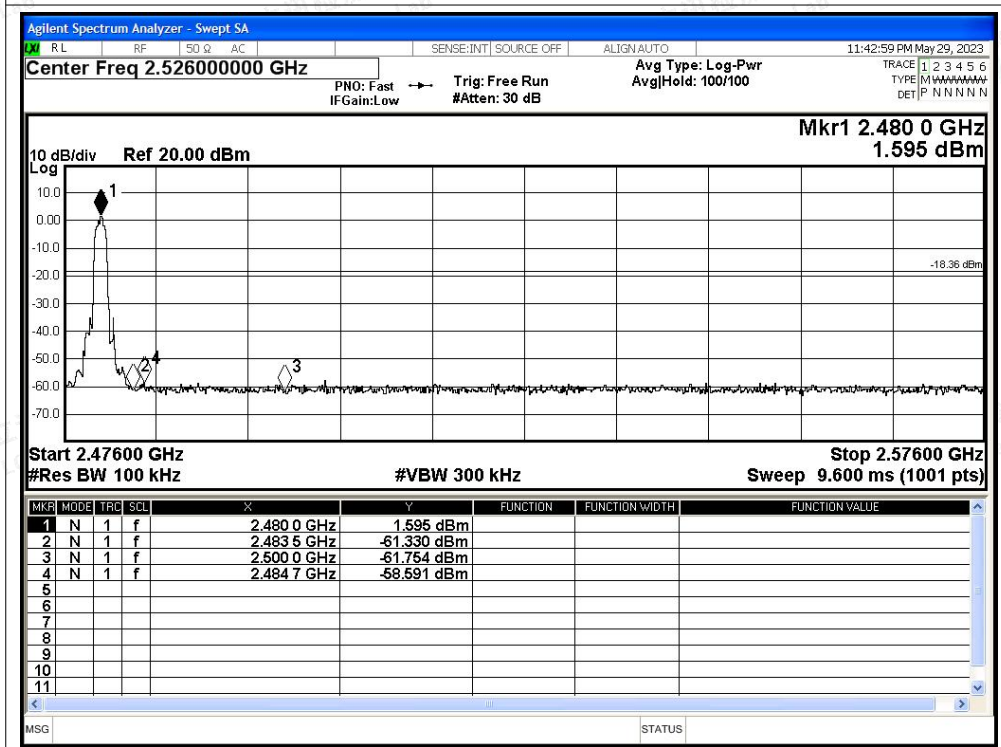
Scan code to check authenticity



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



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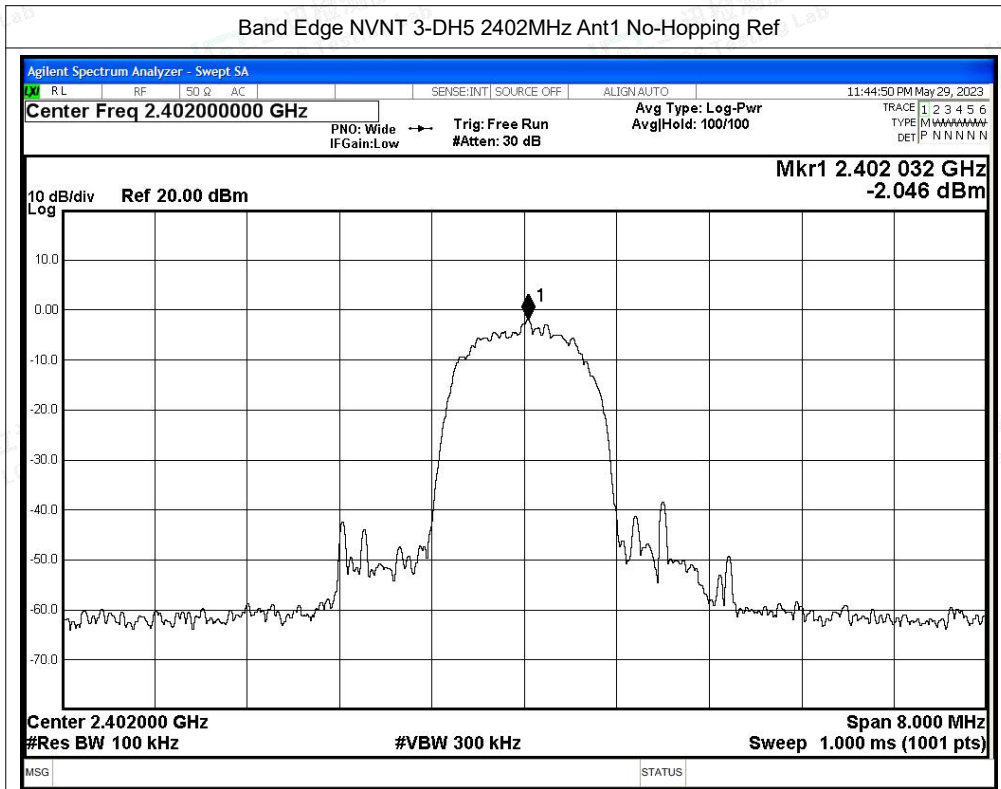
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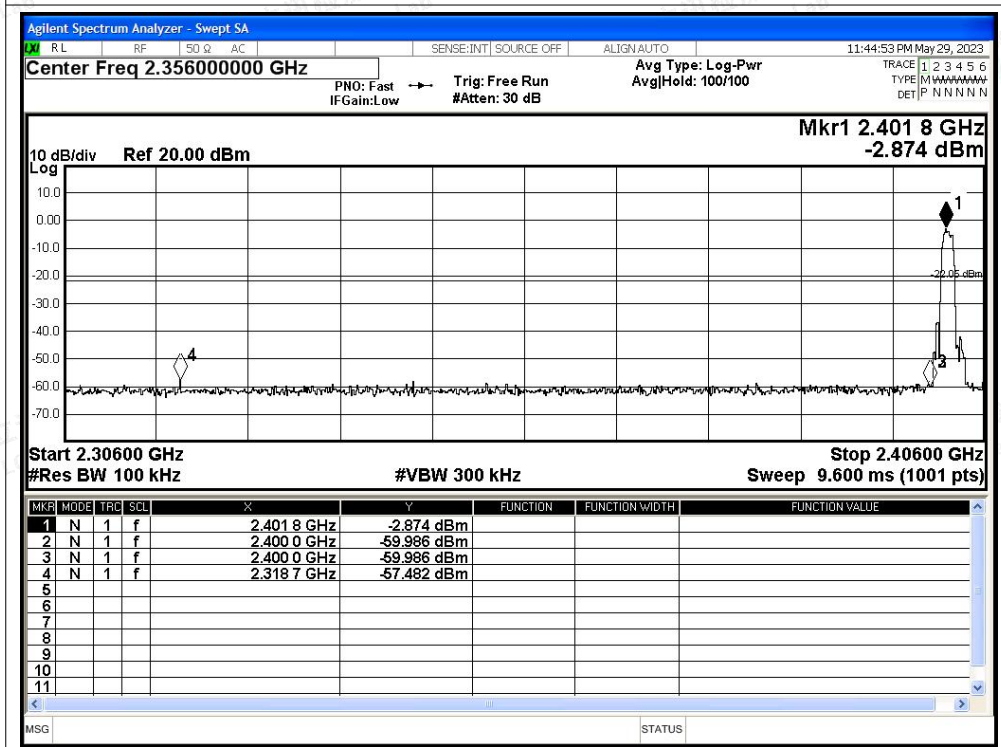
Scan code to check authenticity



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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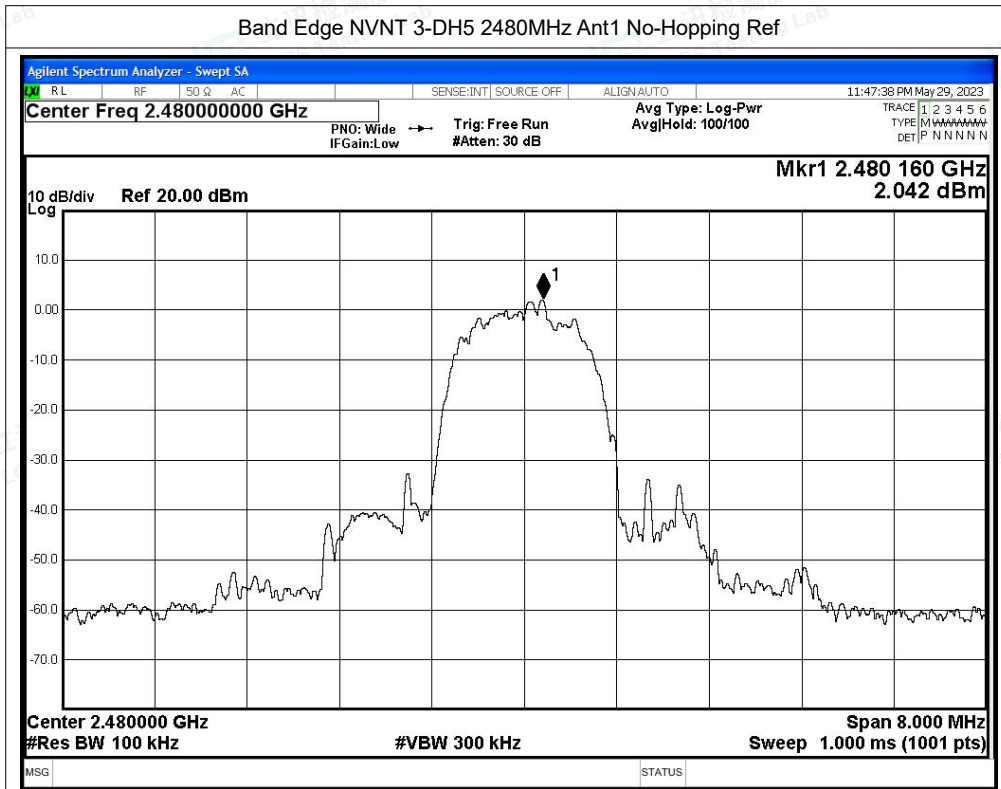
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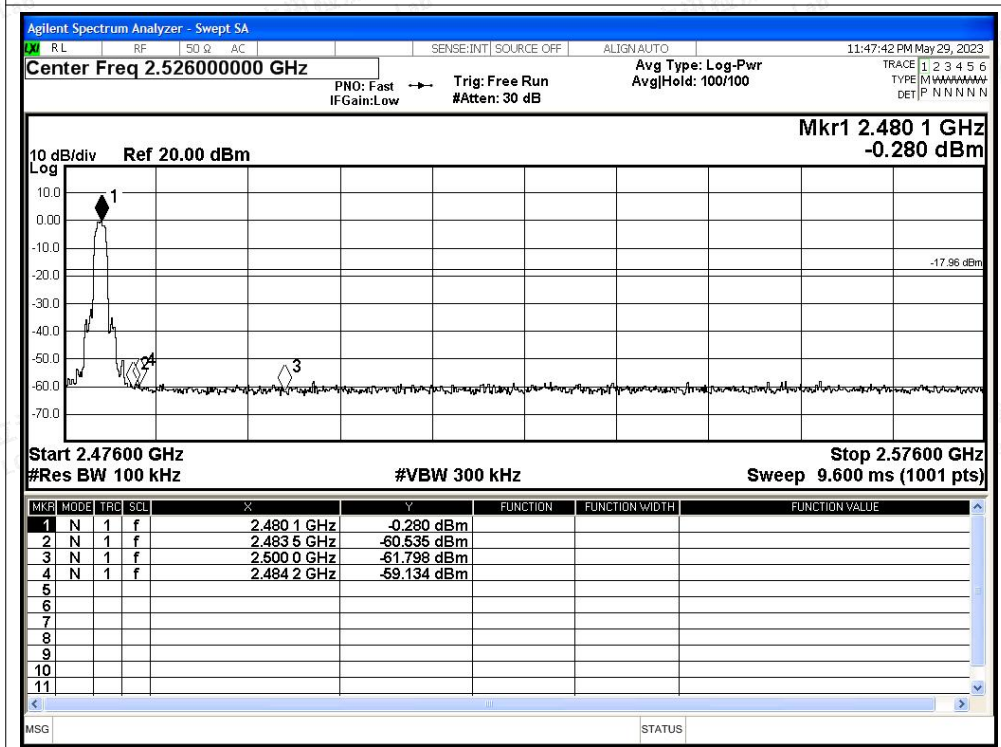
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



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(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.11	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.8	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.58	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.32	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.85	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.15	-20	Pass

