



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: BLUETOOTH HEADPHONES

Test Model: ttec AirBeat Go Gerçek Kablosuz TWS Bluetooth Kulaklık

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Nick Peng</i> Nick Peng
Supervised by:	<i>Ling Zhu</i> Ling Zhu





A.1 -20dB Bandwidth

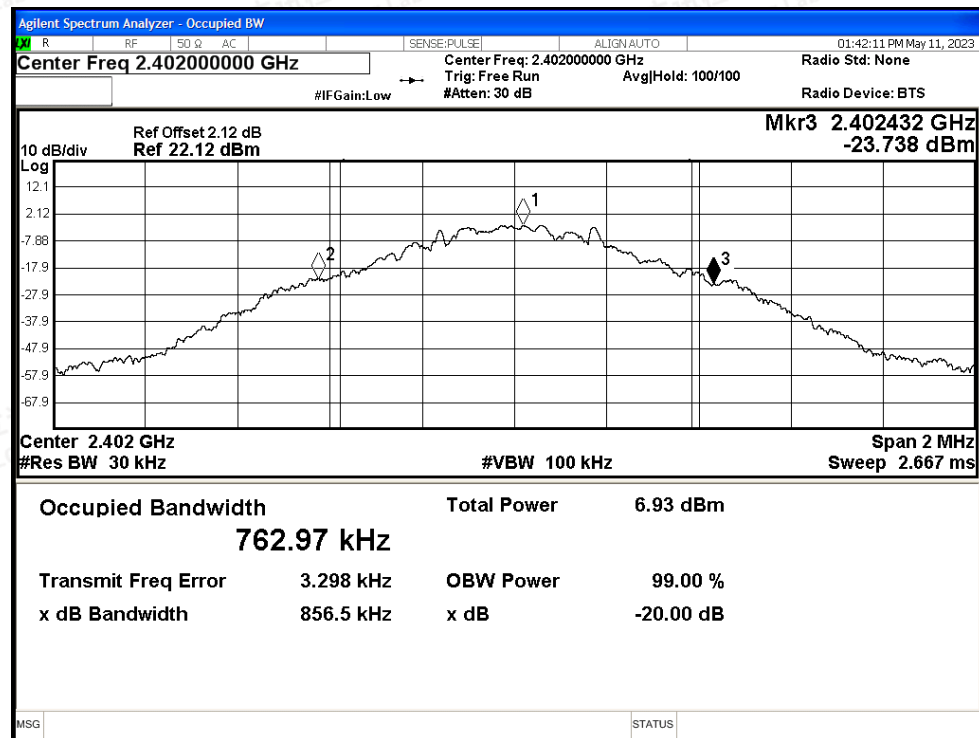
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.857	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.848	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.847	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.288	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.267	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.312	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.302	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.3	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.262	N/A	Pass



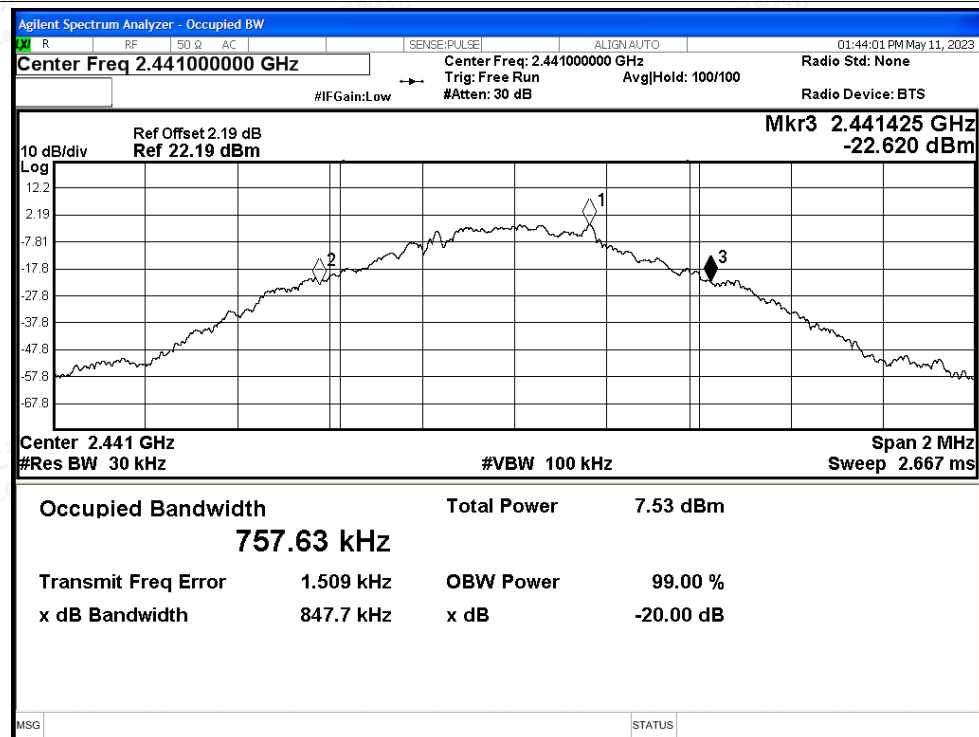


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

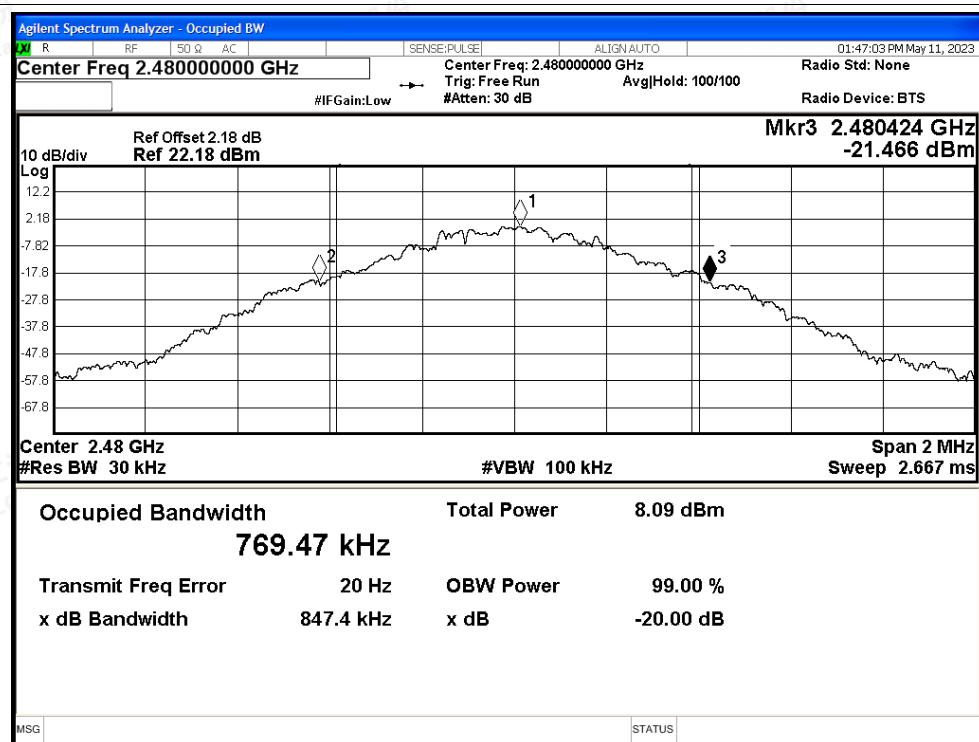


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

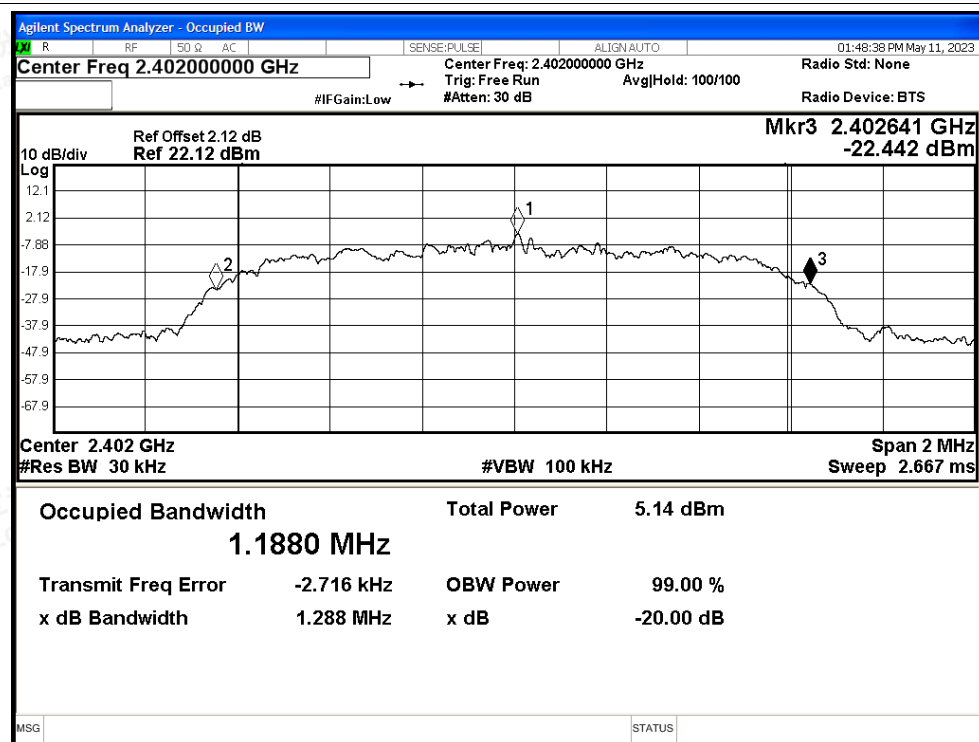




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

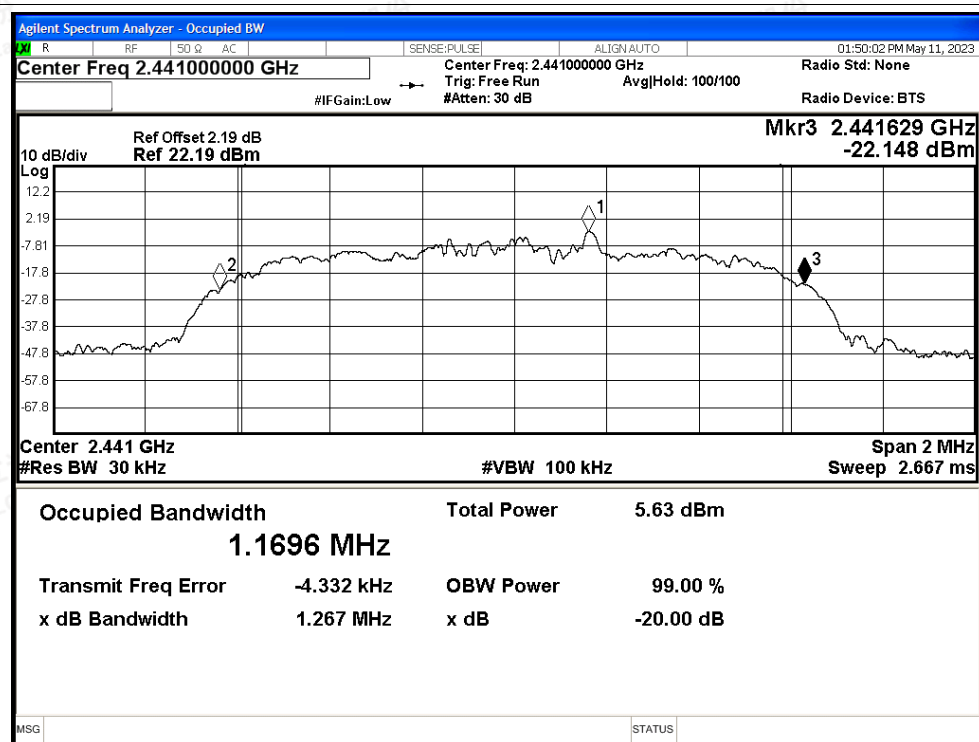


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

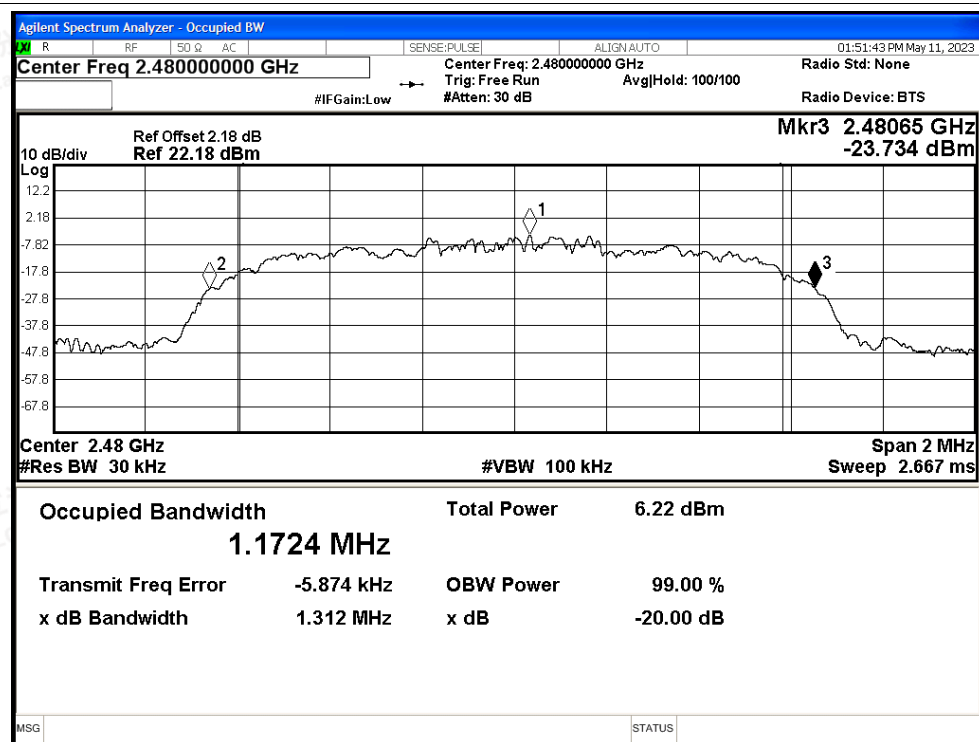




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

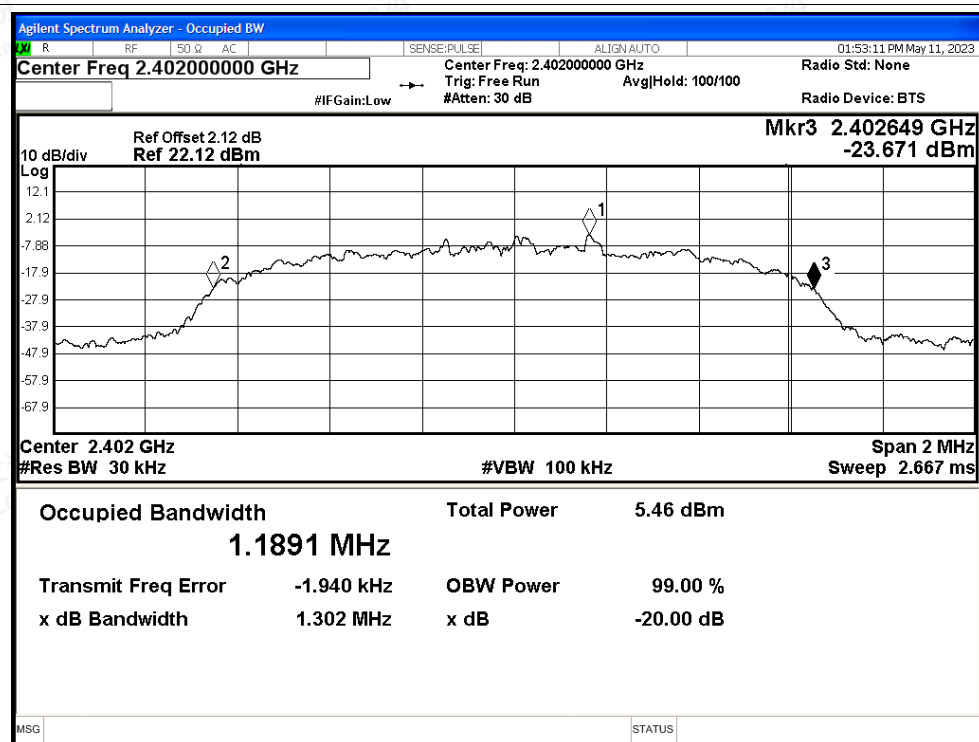


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

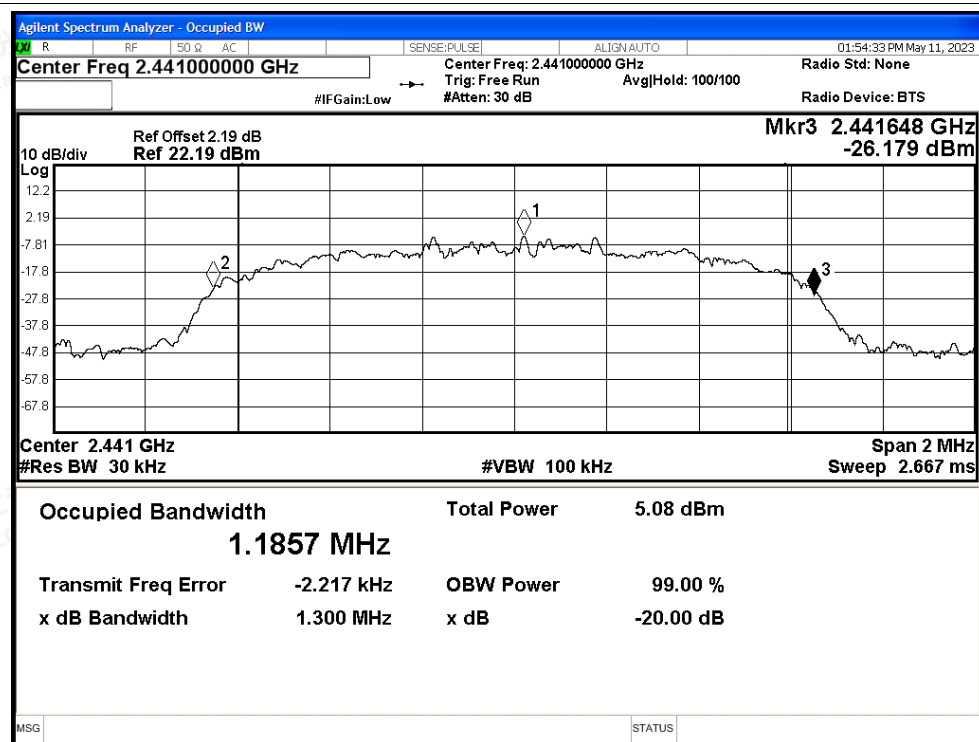


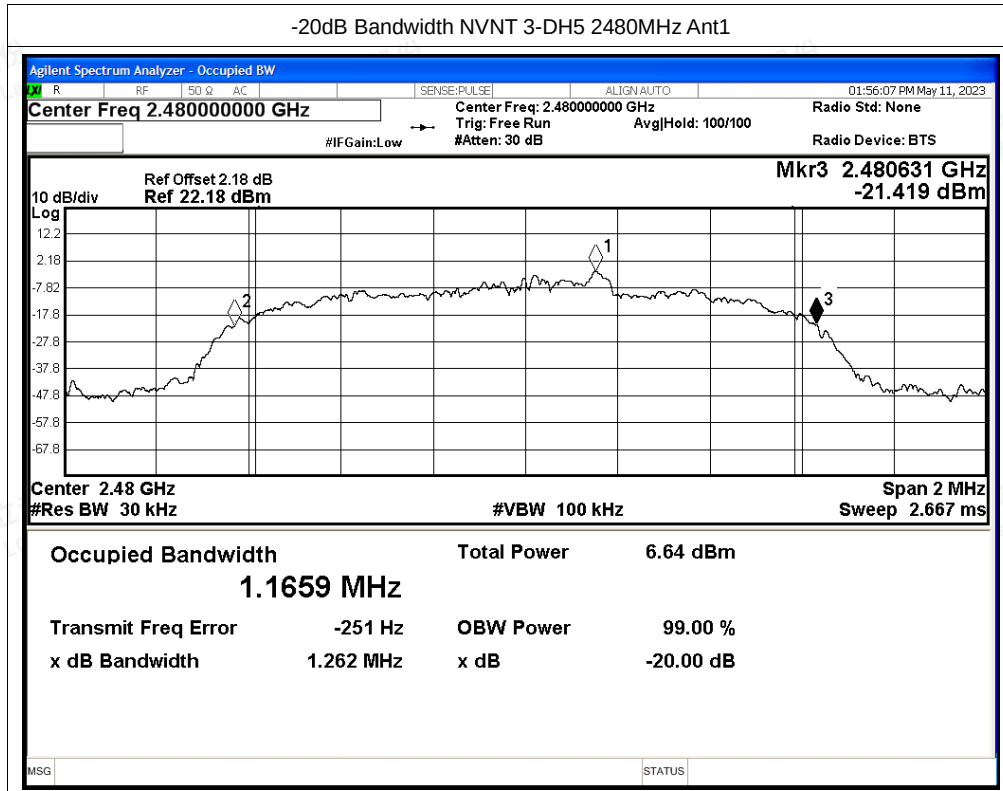


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Conducted Output Power

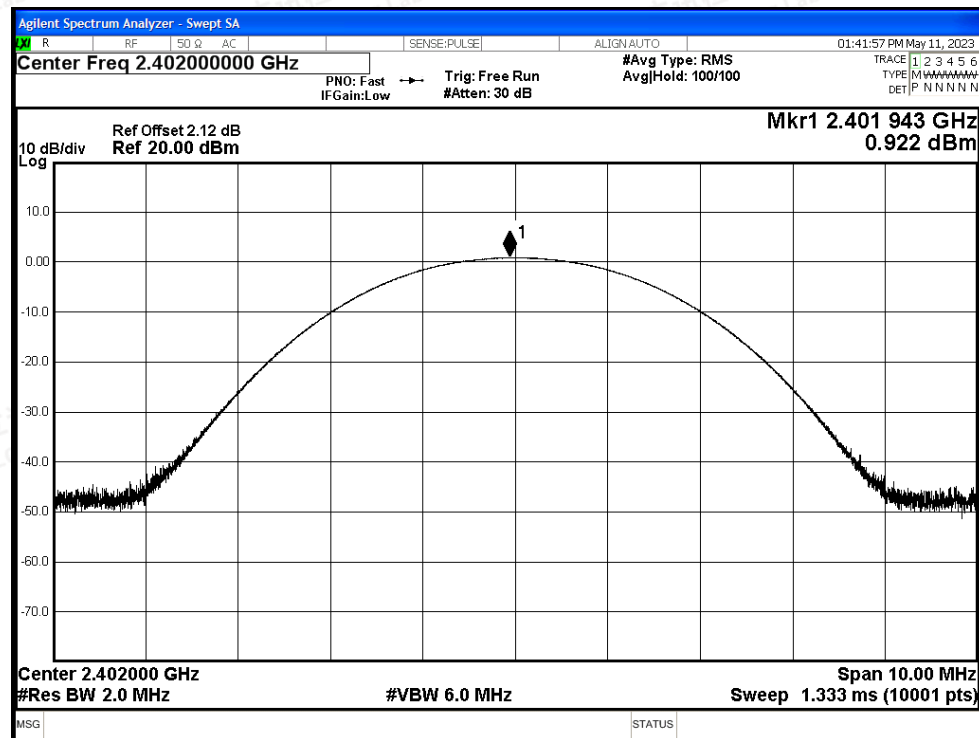
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.92	21	Pass
NVNT	1-DH5	2441	Ant1	1.4	21	Pass
NVNT	1-DH5	2480	Ant1	2.3	21	Pass
NVNT	2-DH5	2402	Ant1	0.82	21	Pass
NVNT	2-DH5	2441	Ant1	0.69	21	Pass
NVNT	2-DH5	2480	Ant1	1.59	21	Pass
NVNT	3-DH5	2402	Ant1	0.68	21	Pass
NVNT	3-DH5	2441	Ant1	0.56	21	Pass
NVNT	3-DH5	2480	Ant1	1.48	21	Pass



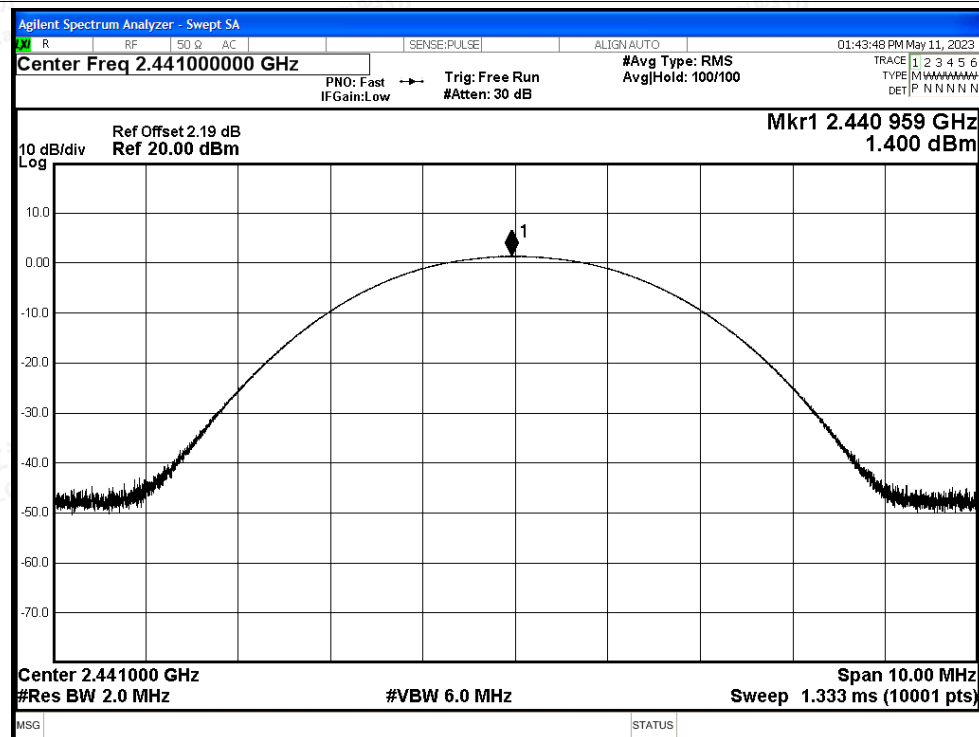


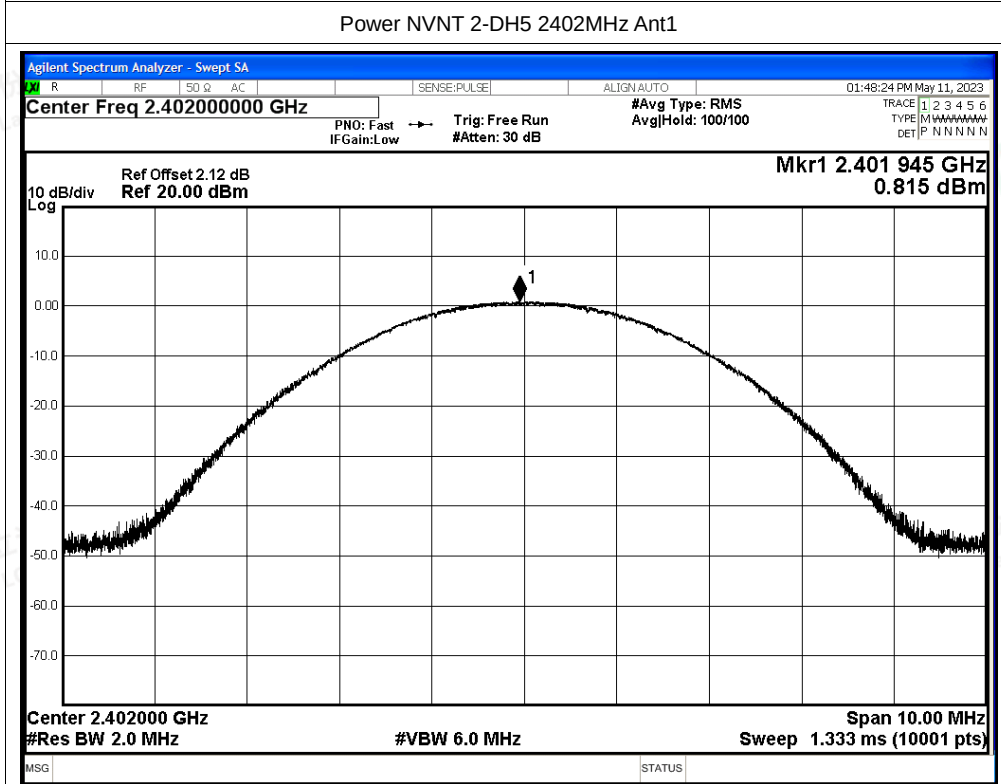
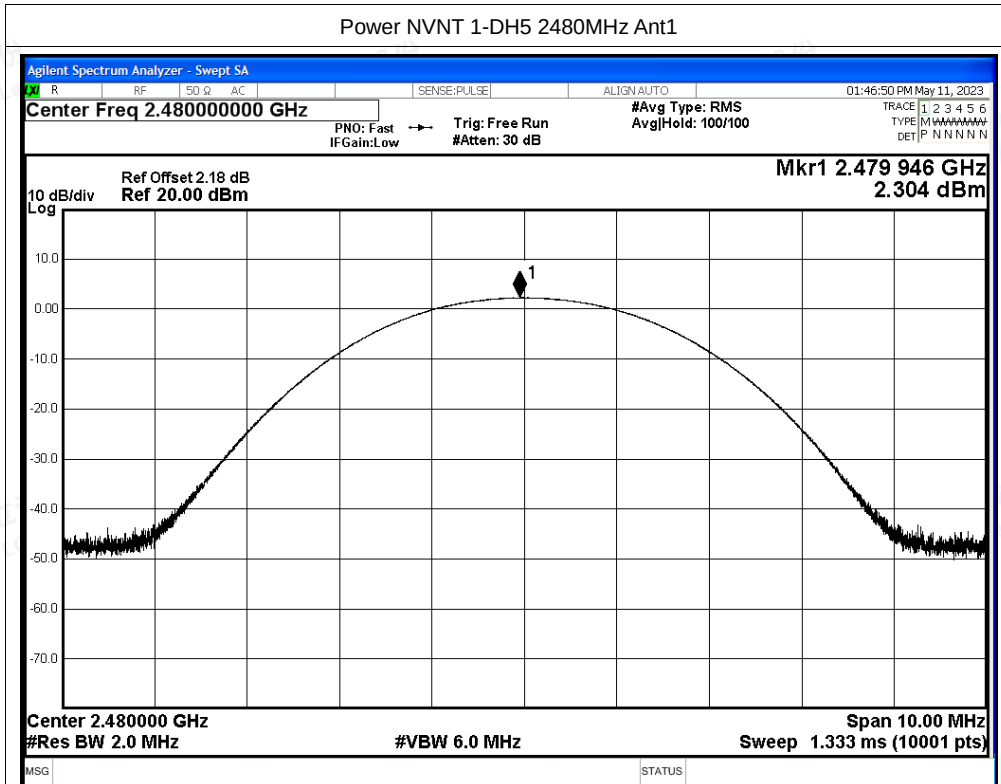
Test Graphs

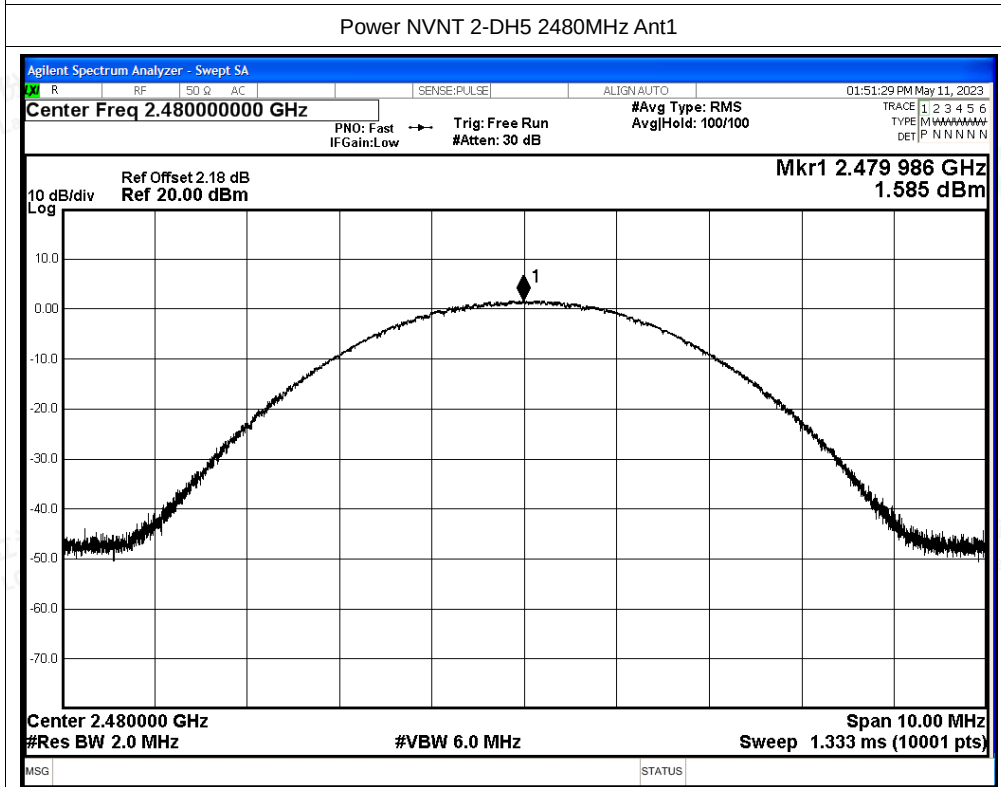
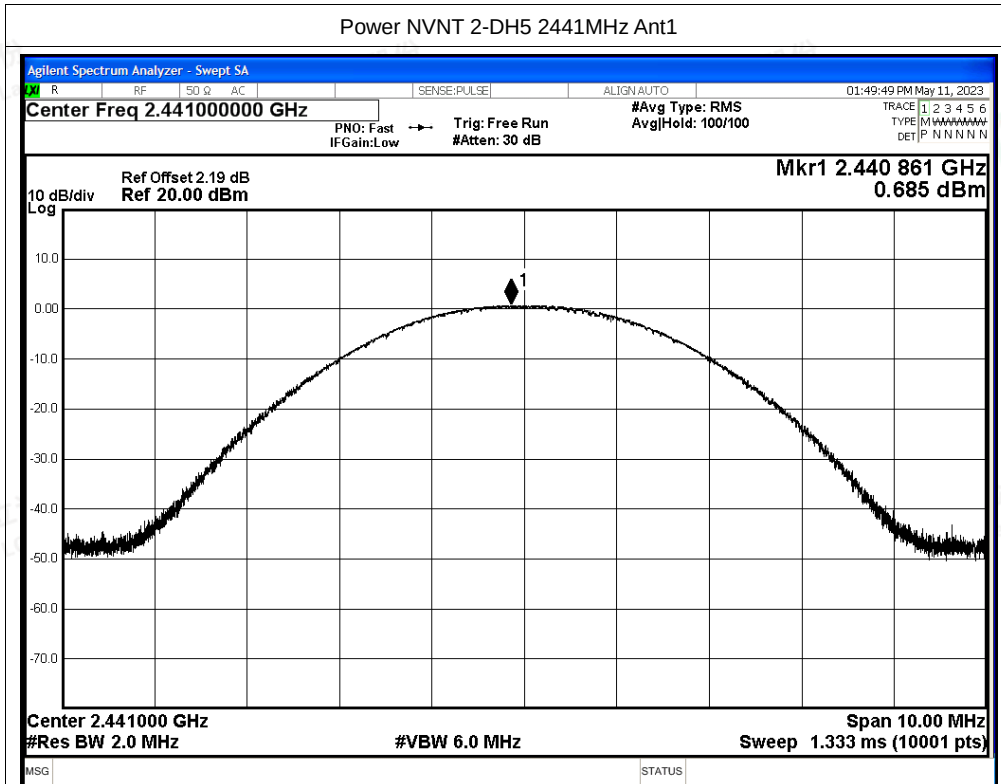
Power NVNT 1-DH5 2402MHz Ant1

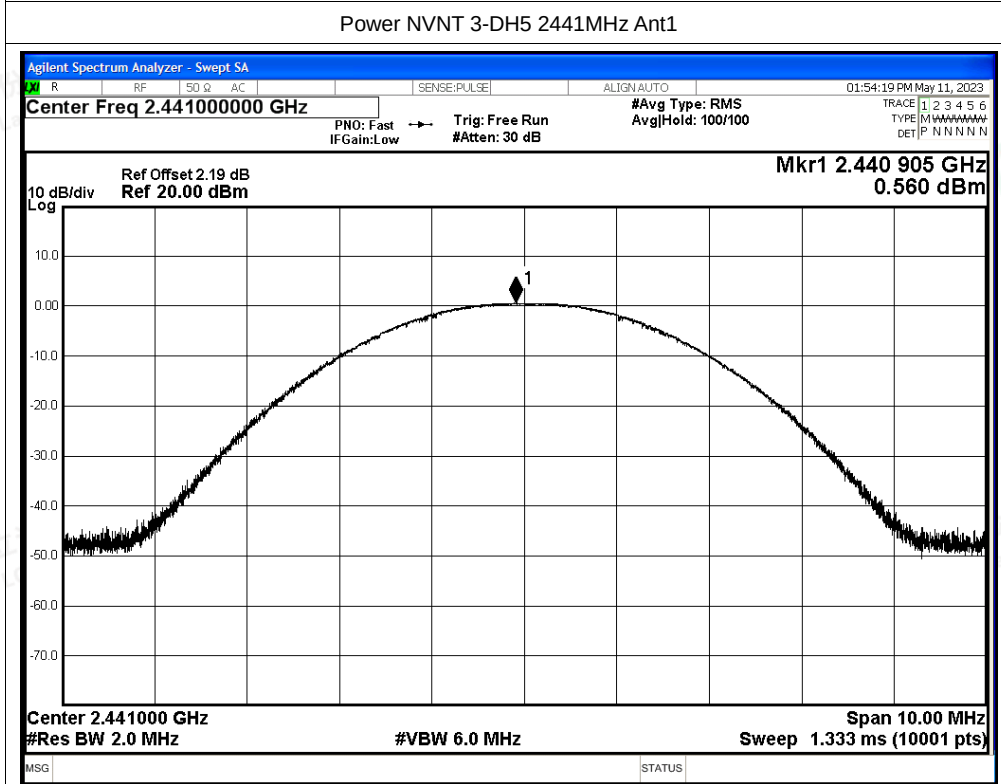
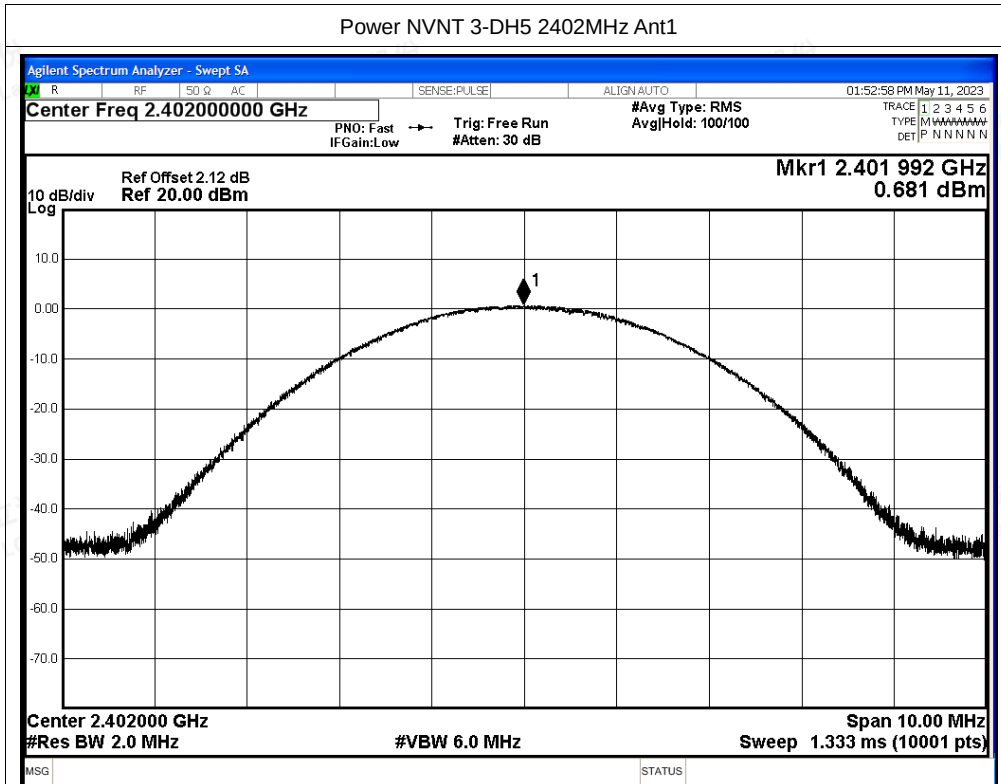


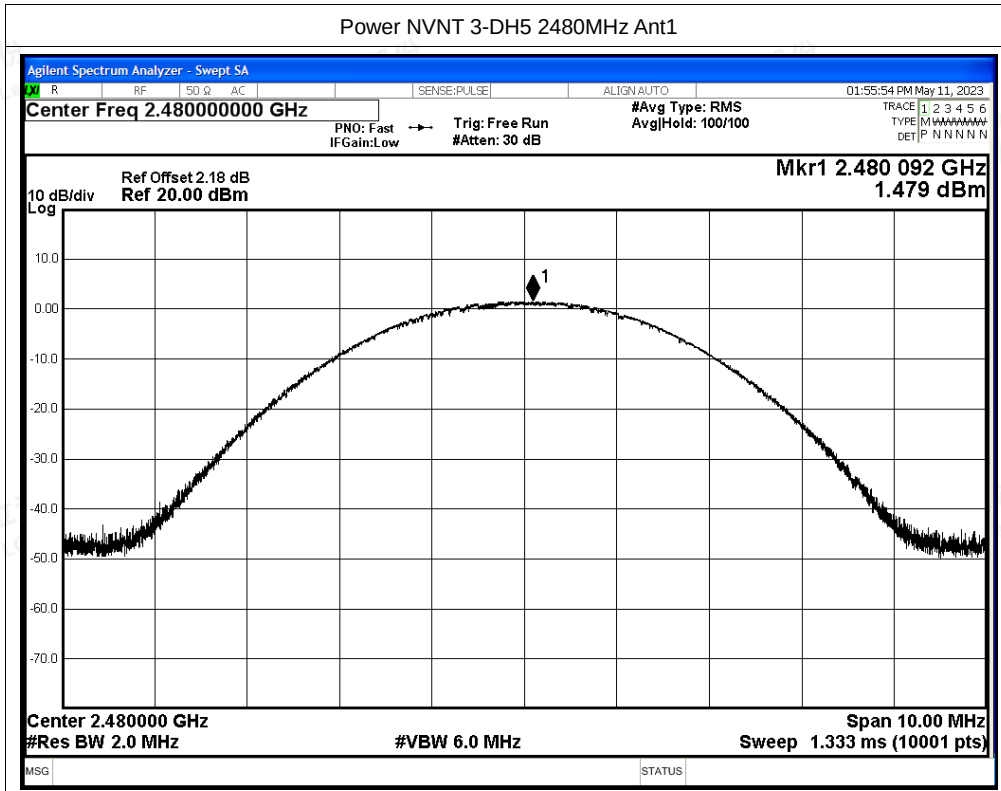
Power NVNT 1-DH5 2441MHz Ant1













A.3 Carrier Frequencies Separation

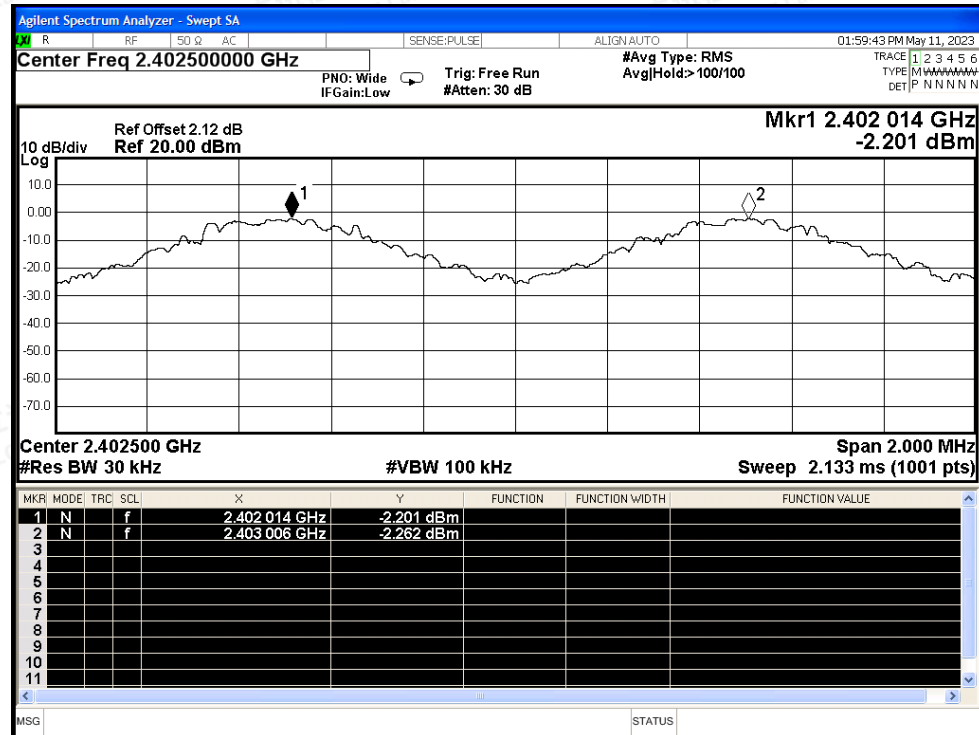
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.014	2403.006	0.992	0.571	Pass
NVNT	2-DH5	Ant1	2402.004	2403.158	1.154	0.875	Pass
NVNT	3-DH5	Ant1	2402.014	2403.156	1.142	0.868	Pass



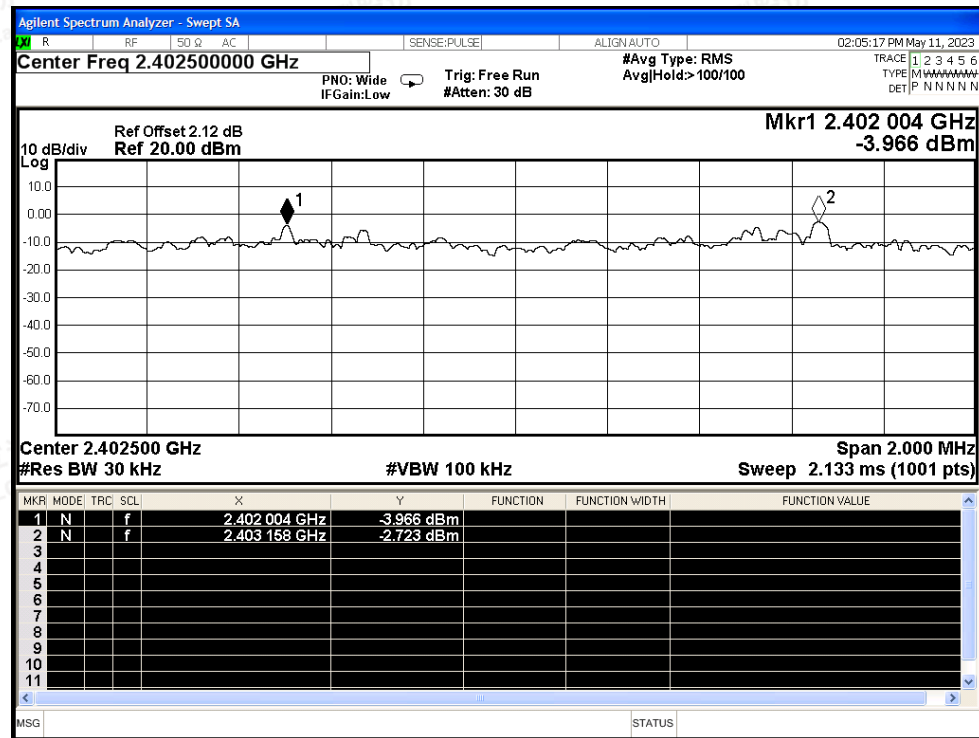


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

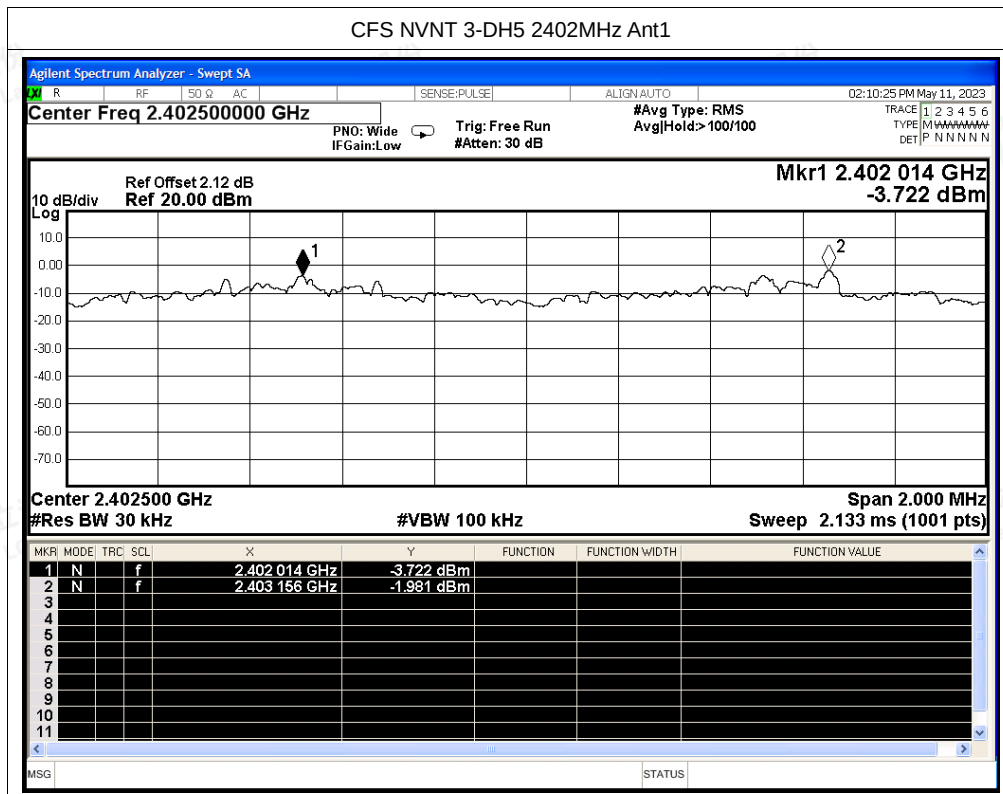


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A.4 Dwell Time

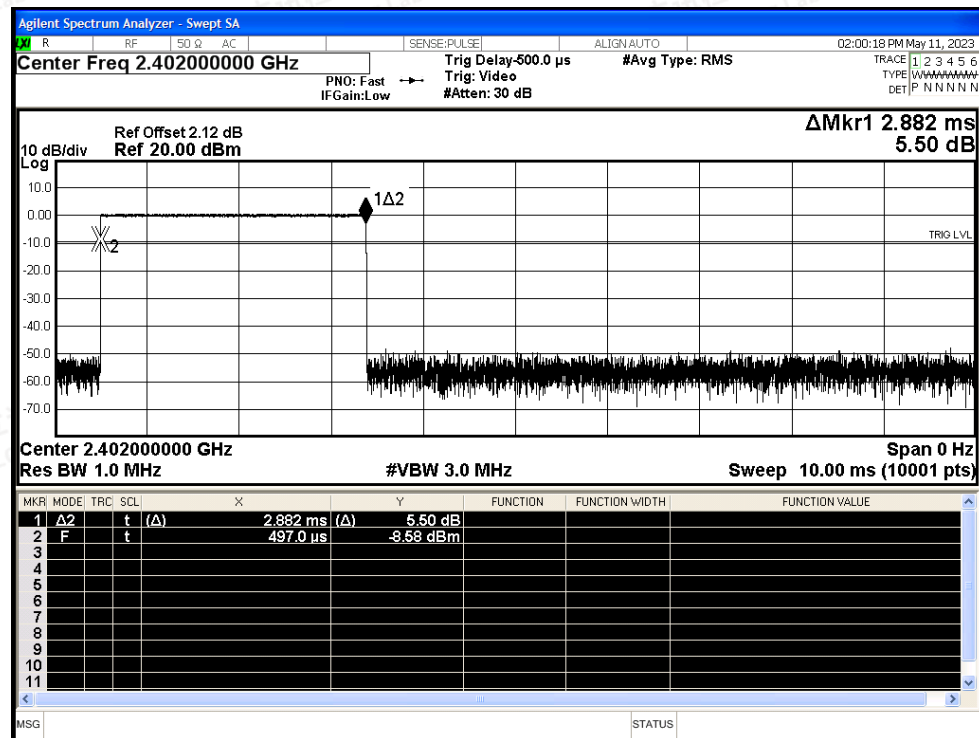
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	302.61	105	31600	400	Pass
NVNT	2-DH5	2402	Ant1	0.783	83.781	107	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	280.039	97	31600	400	Pass



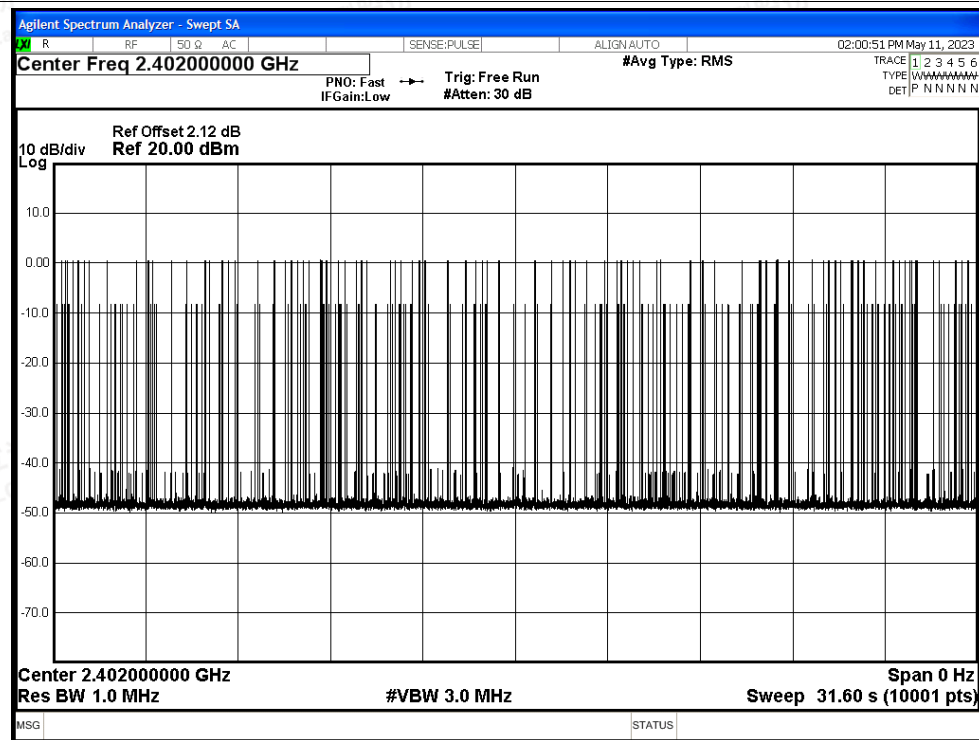


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

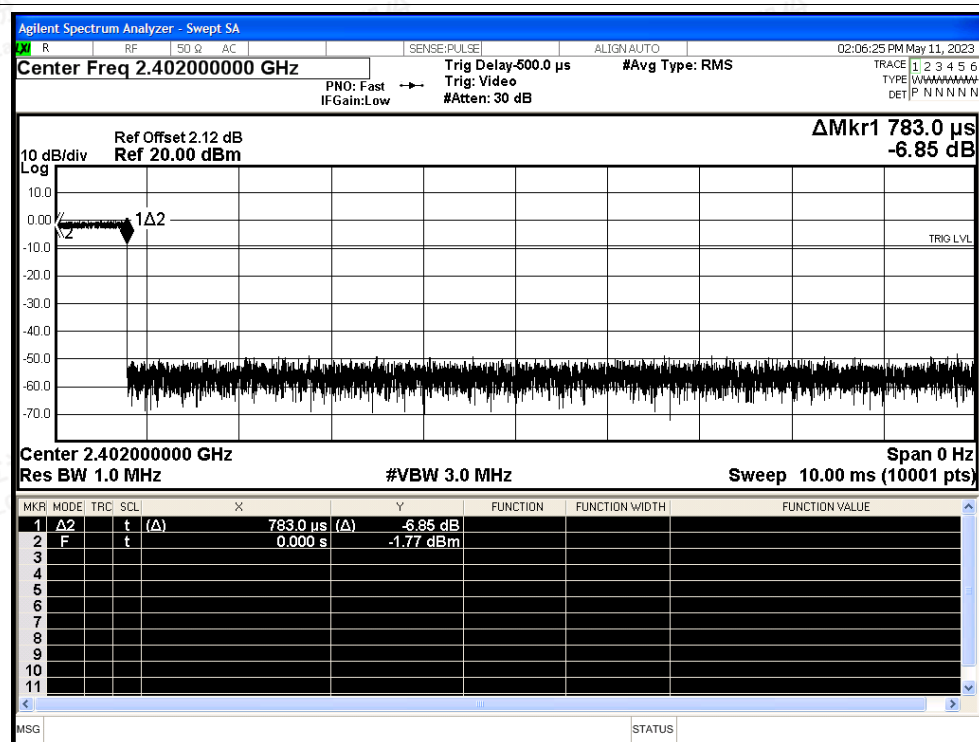


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

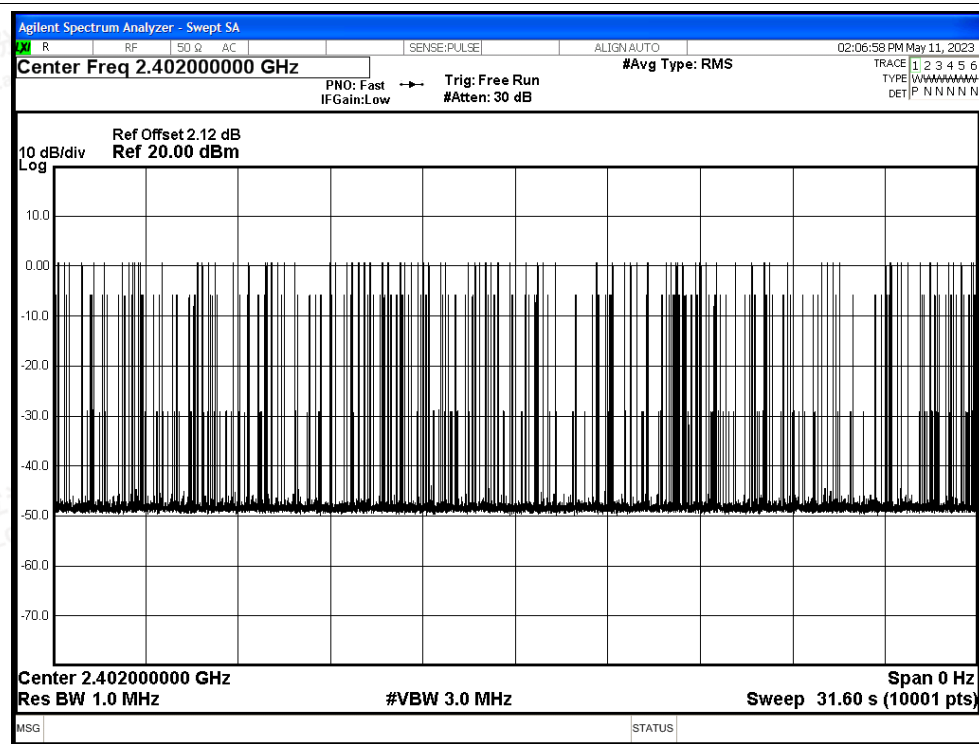




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

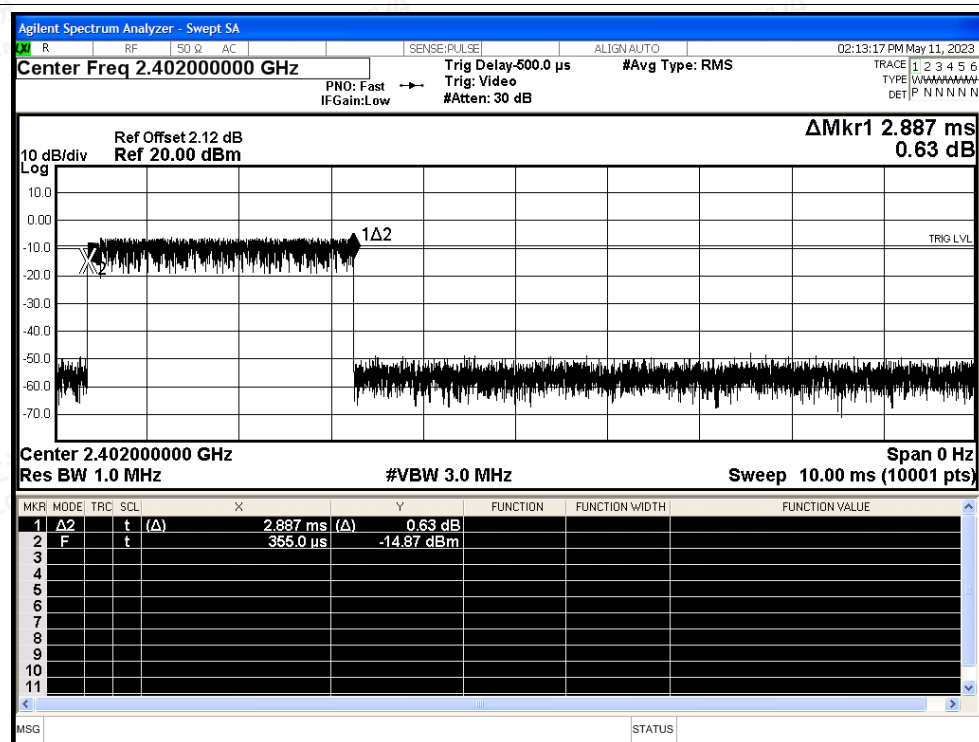


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

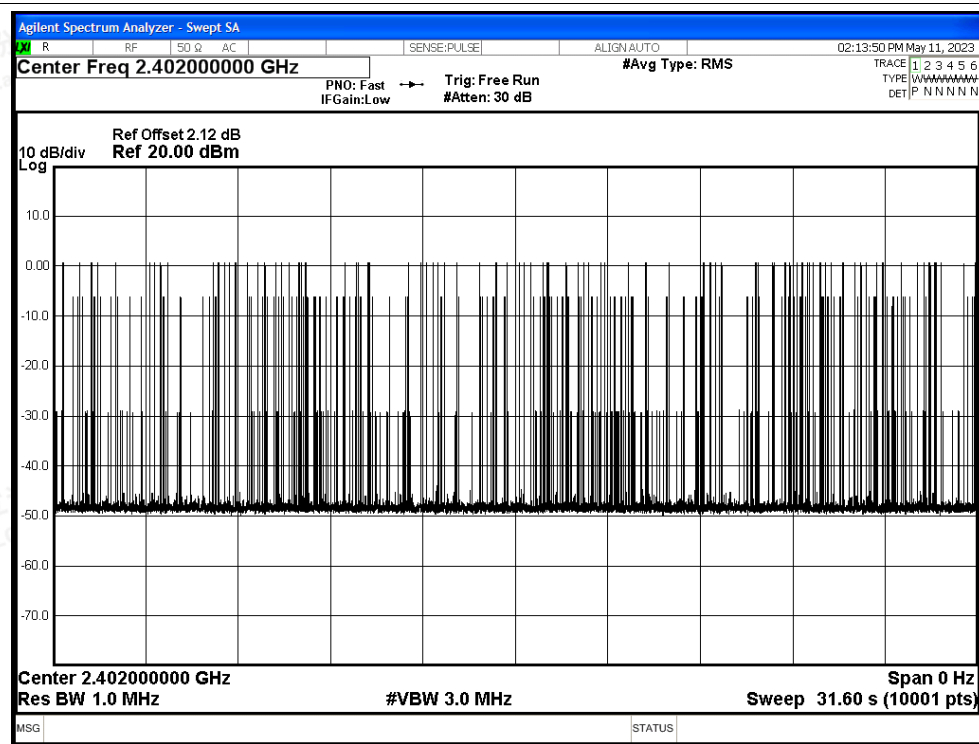




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

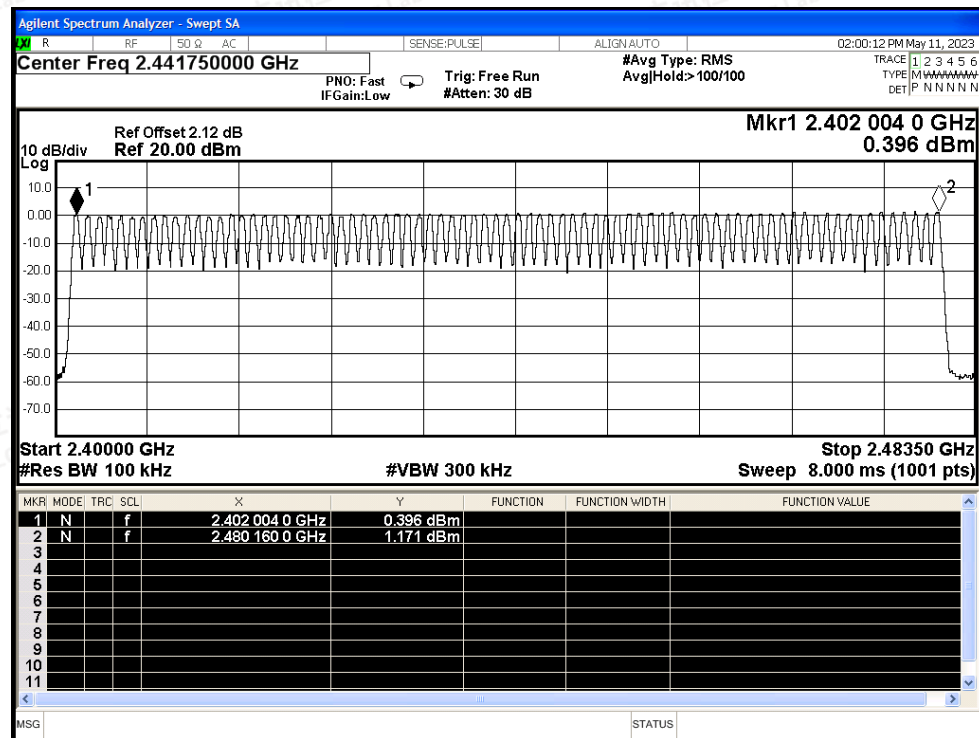
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



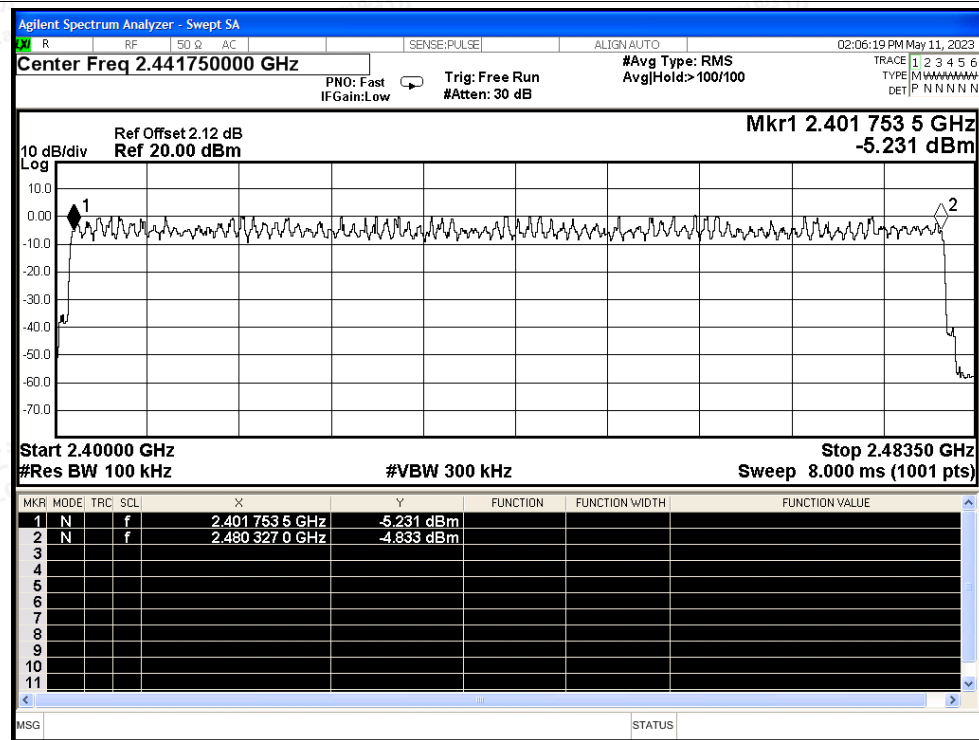


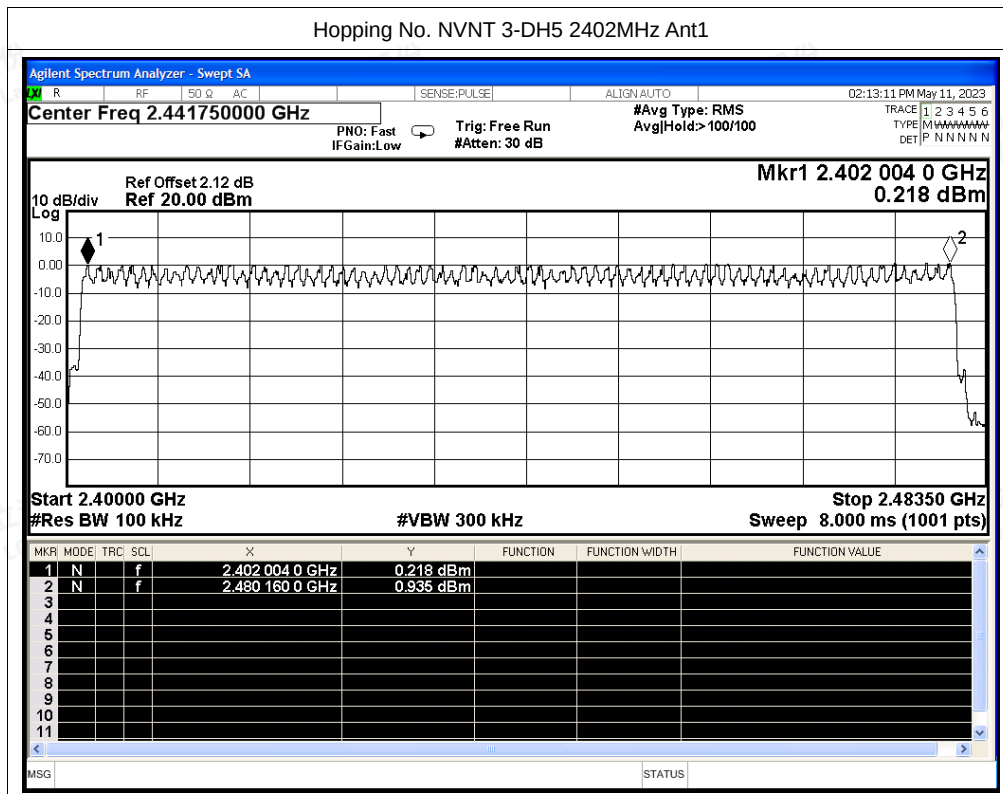
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

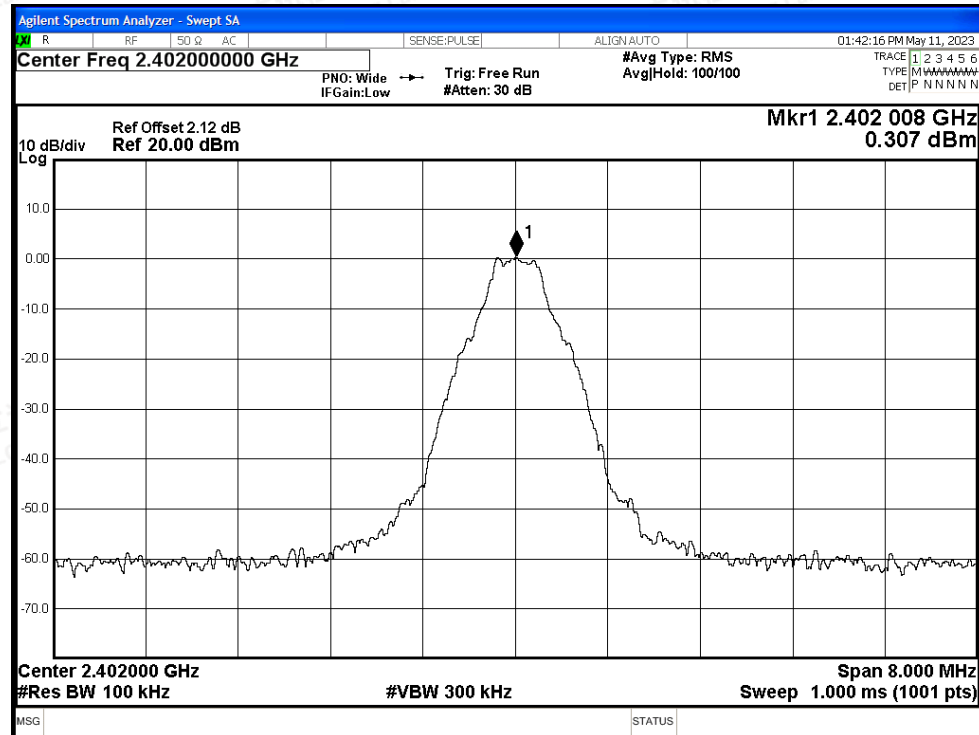
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.25	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-49.35	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.33	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.02	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.3	-20	Pass



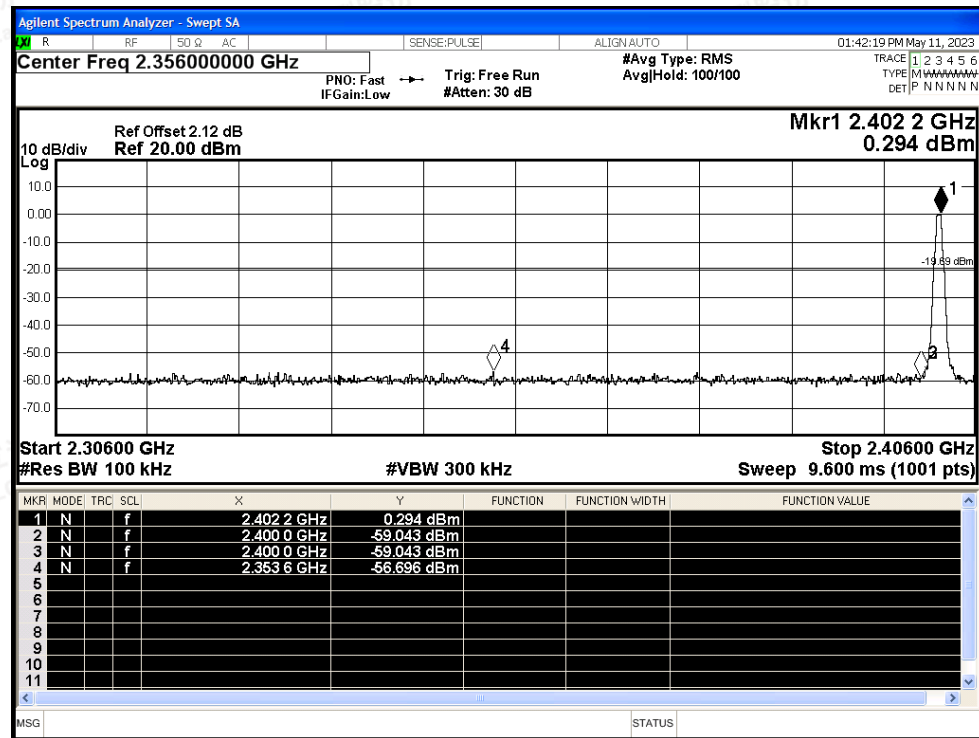


Test Graphs

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



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

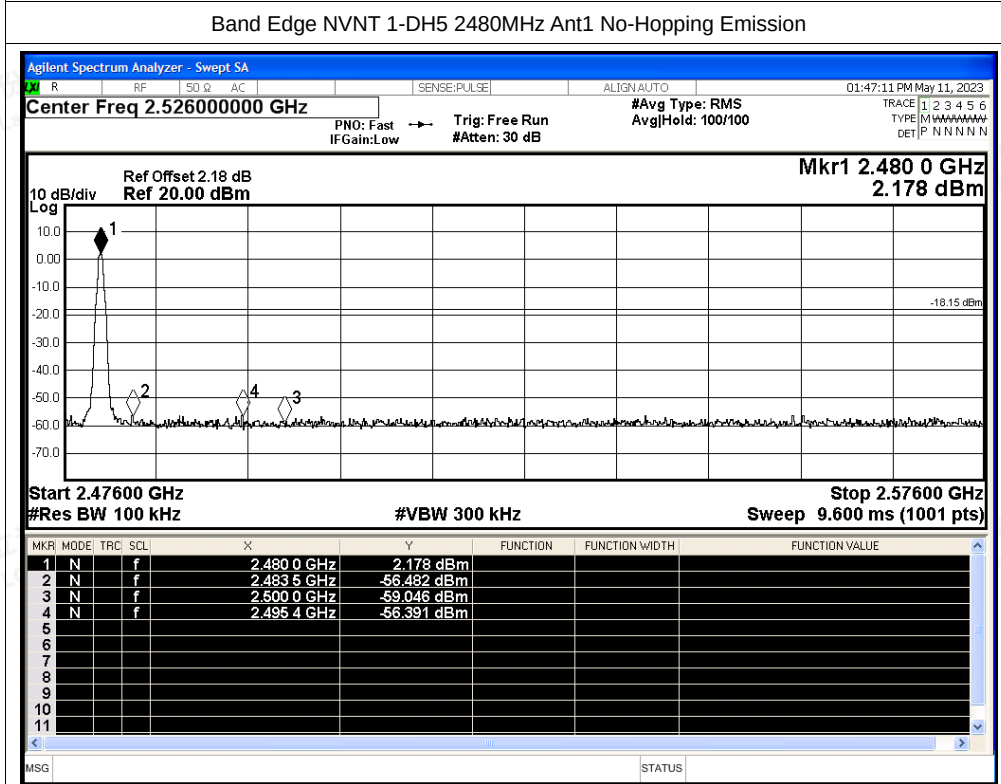
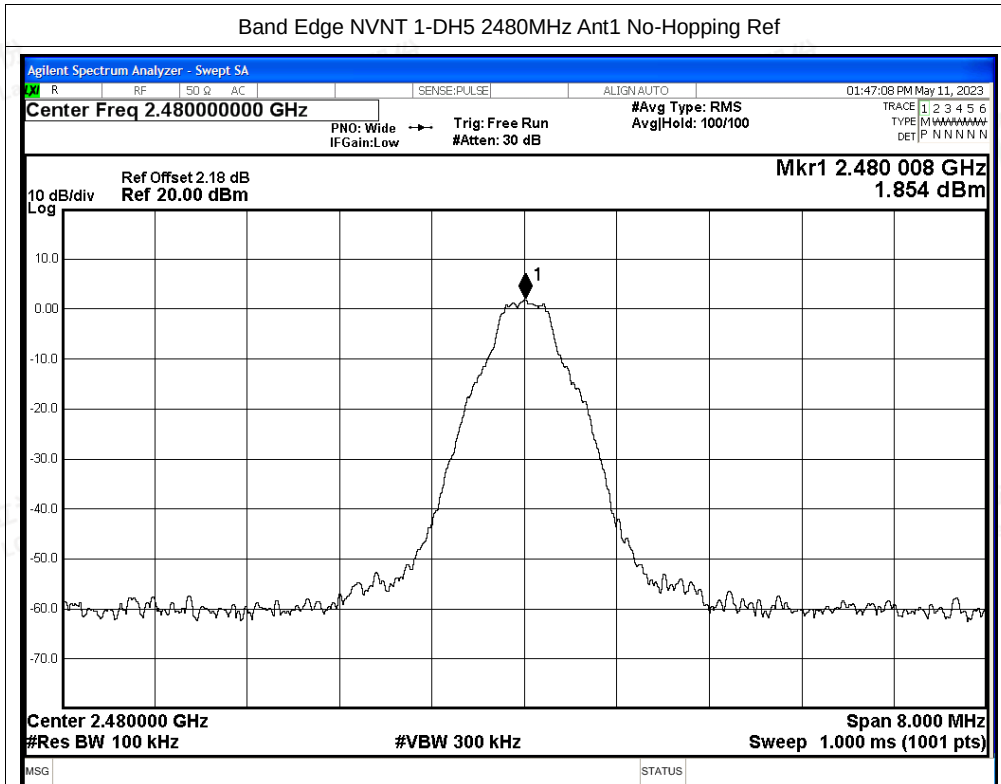


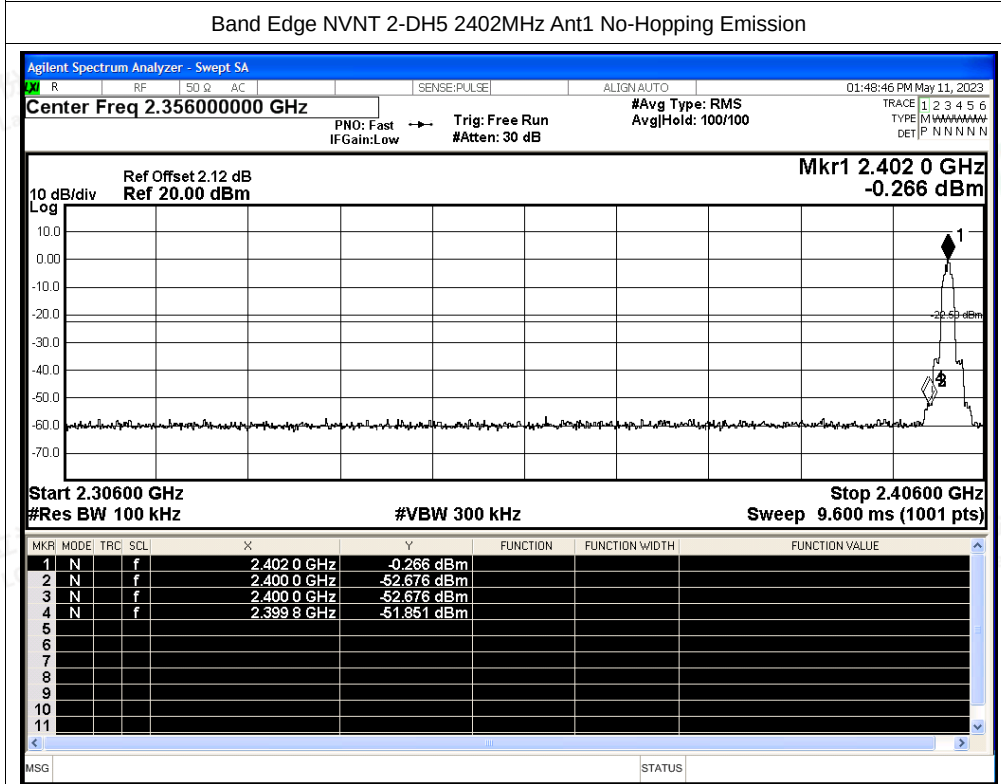
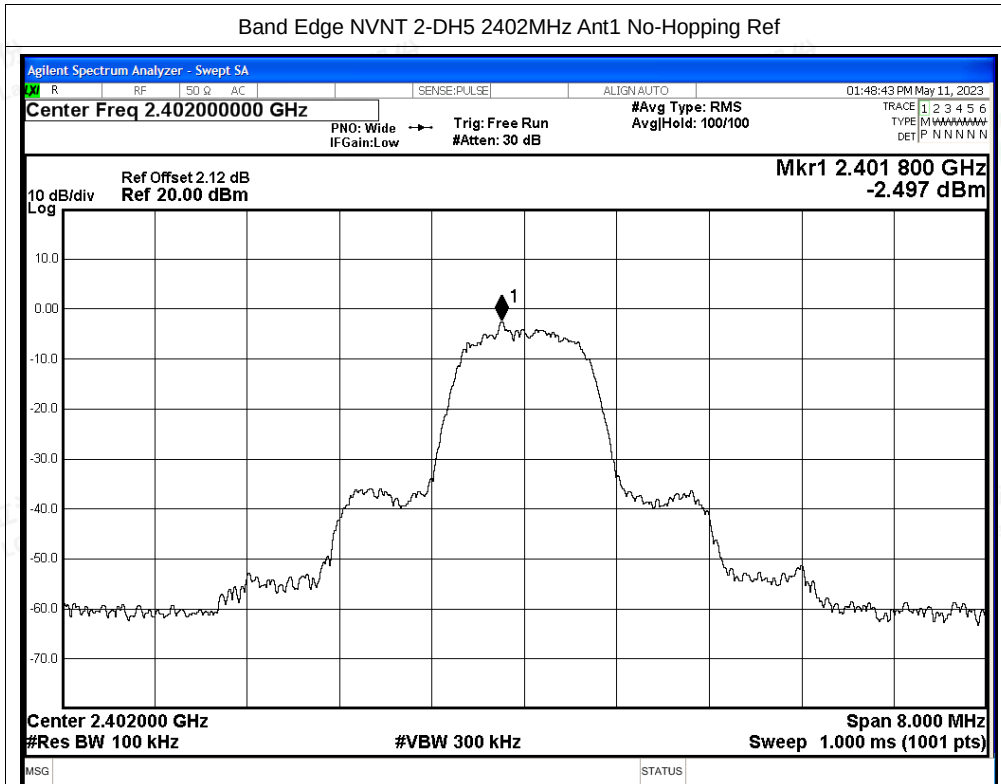
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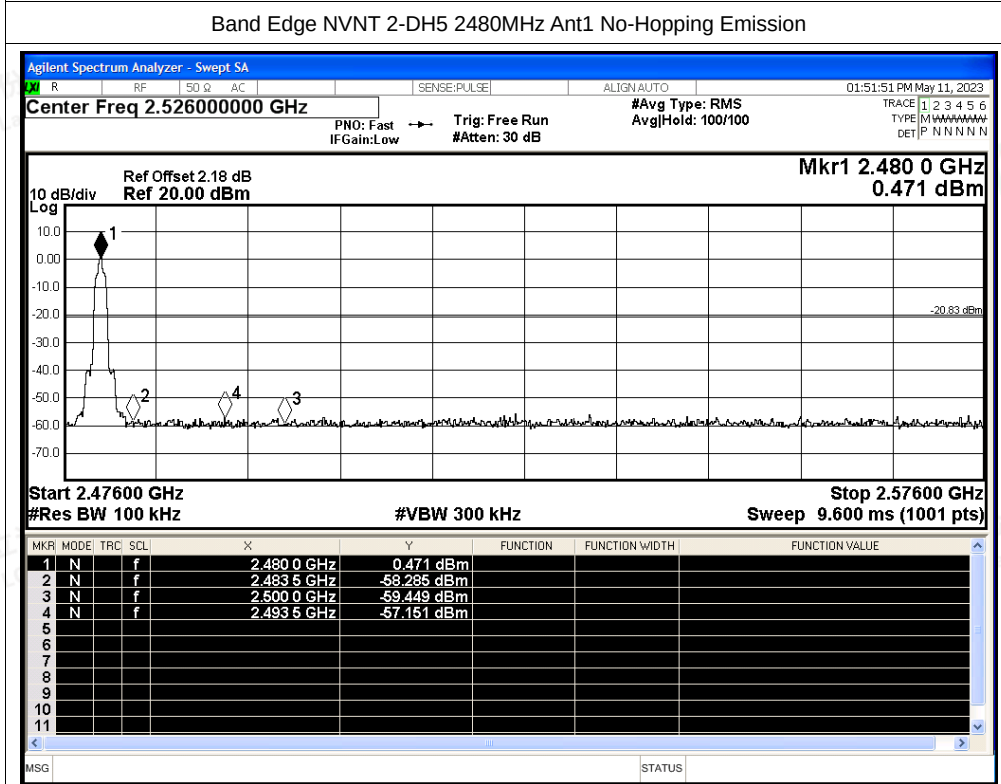
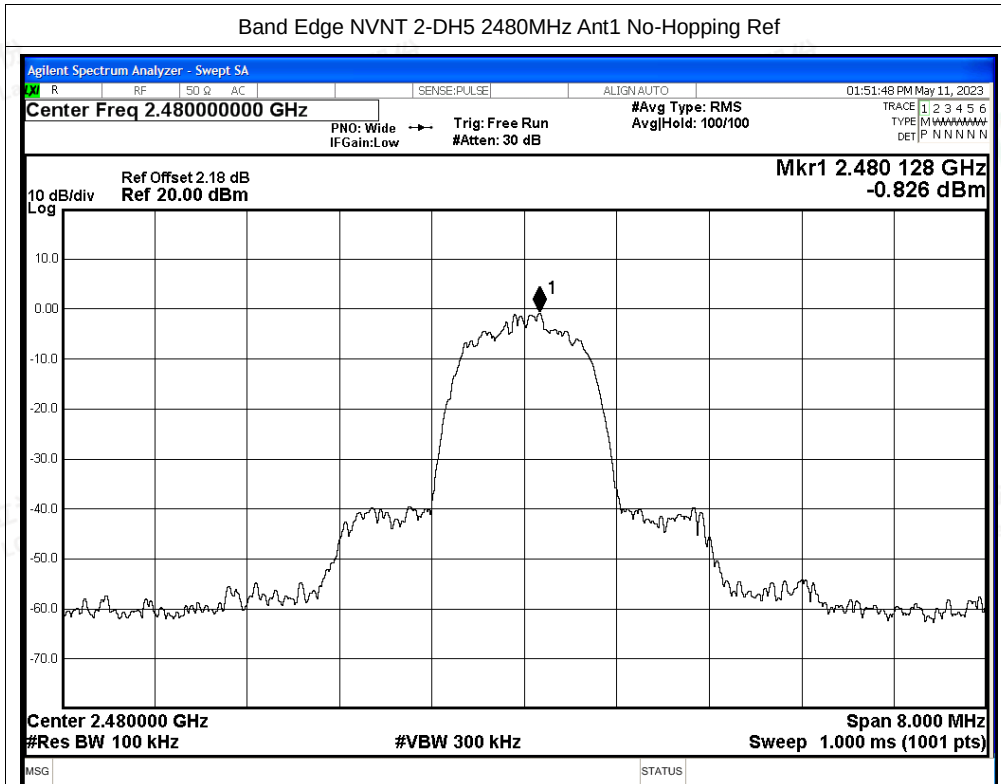
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

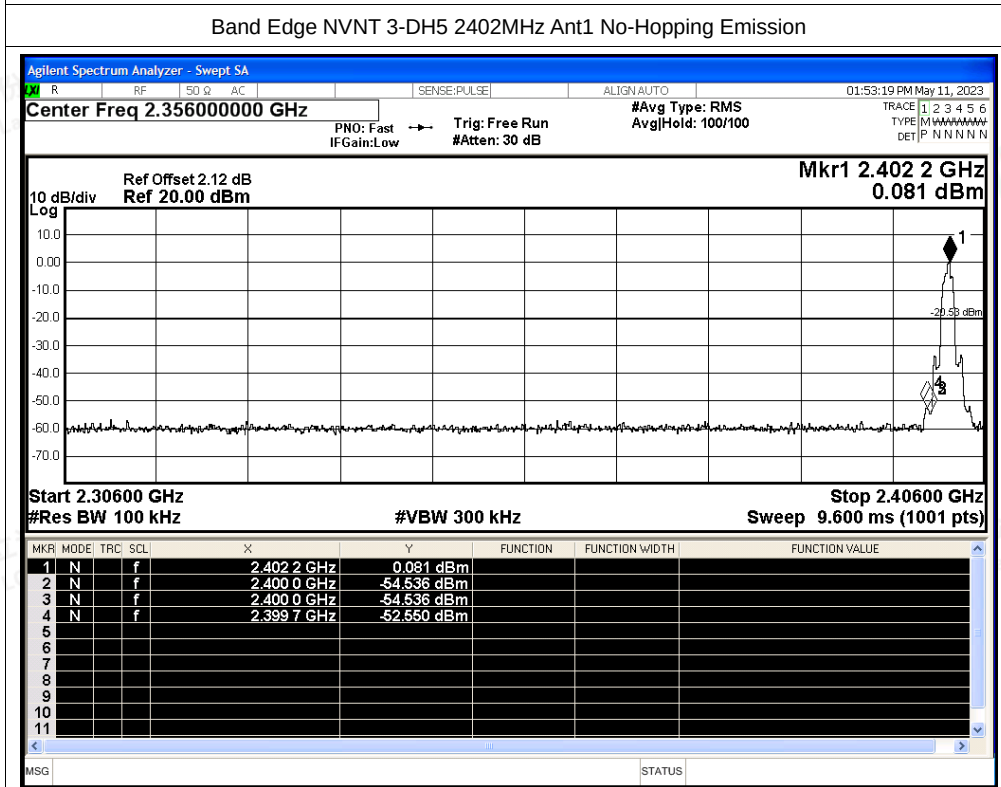
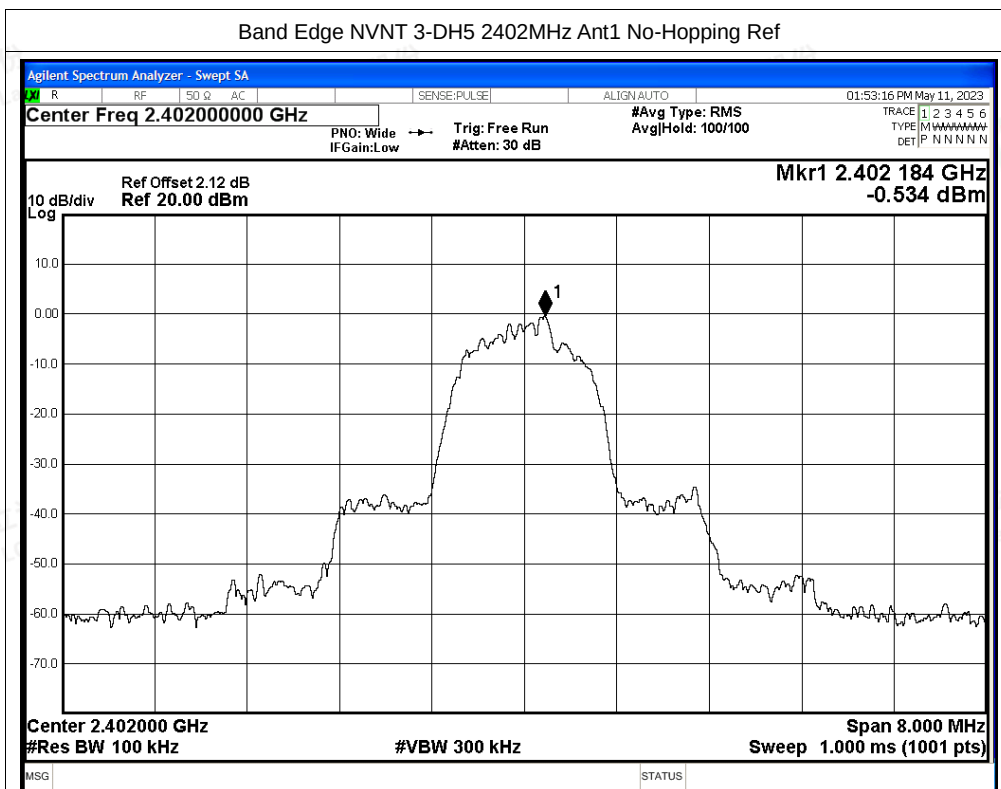
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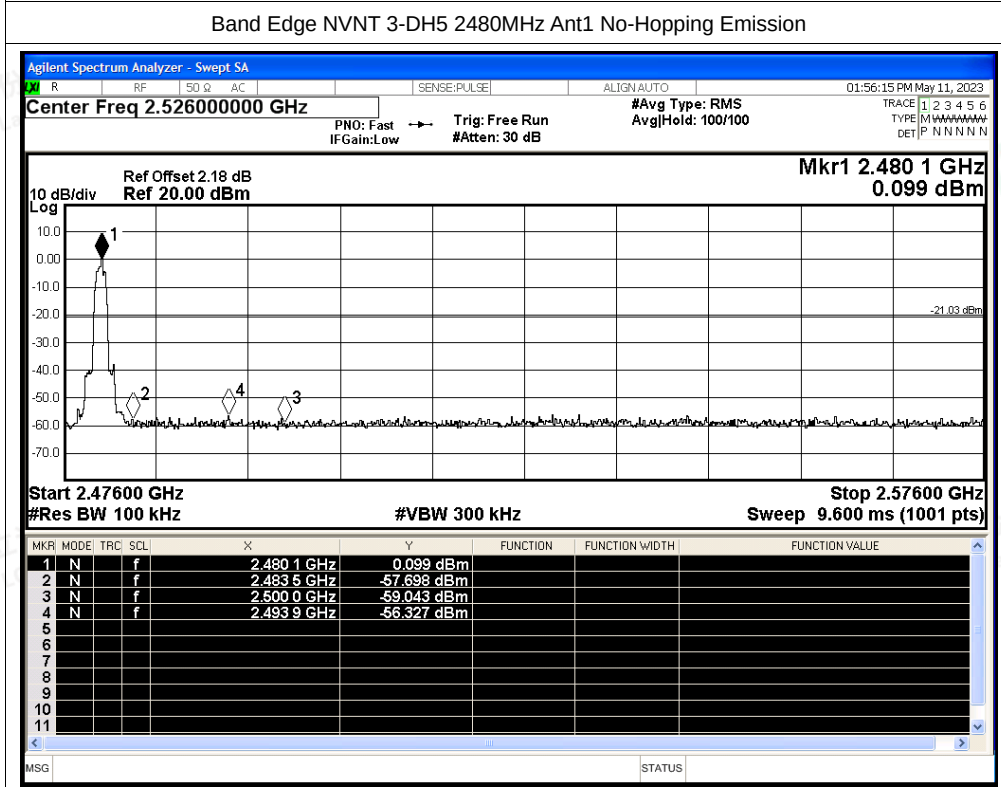
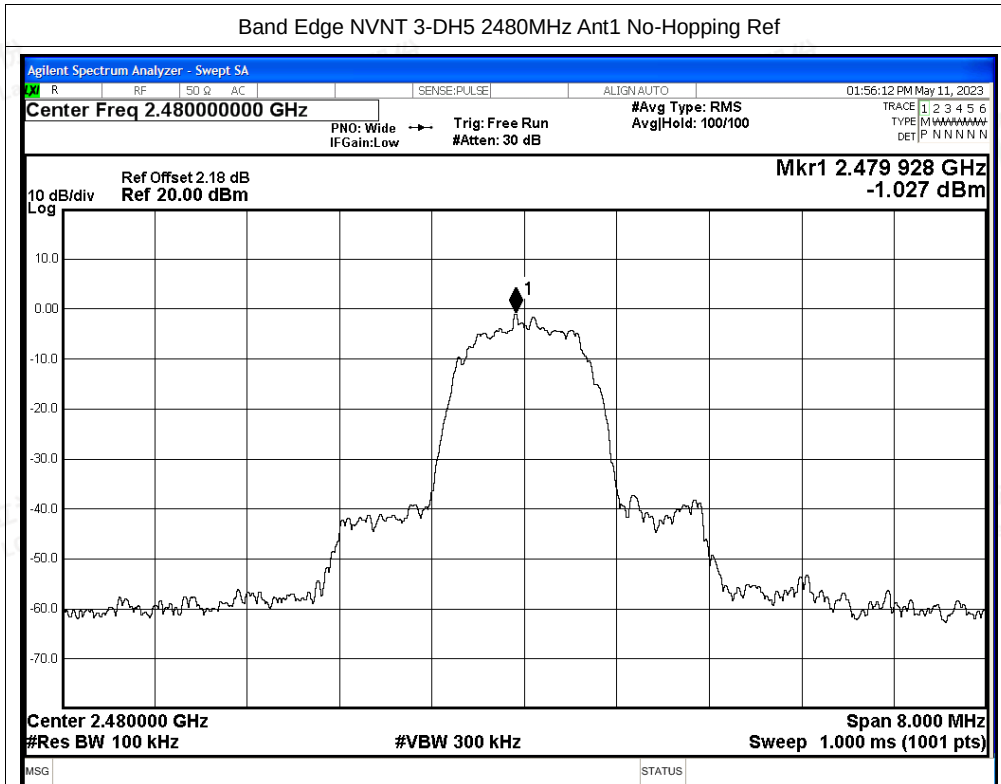
Scan code to check authenticity













(Hopping)

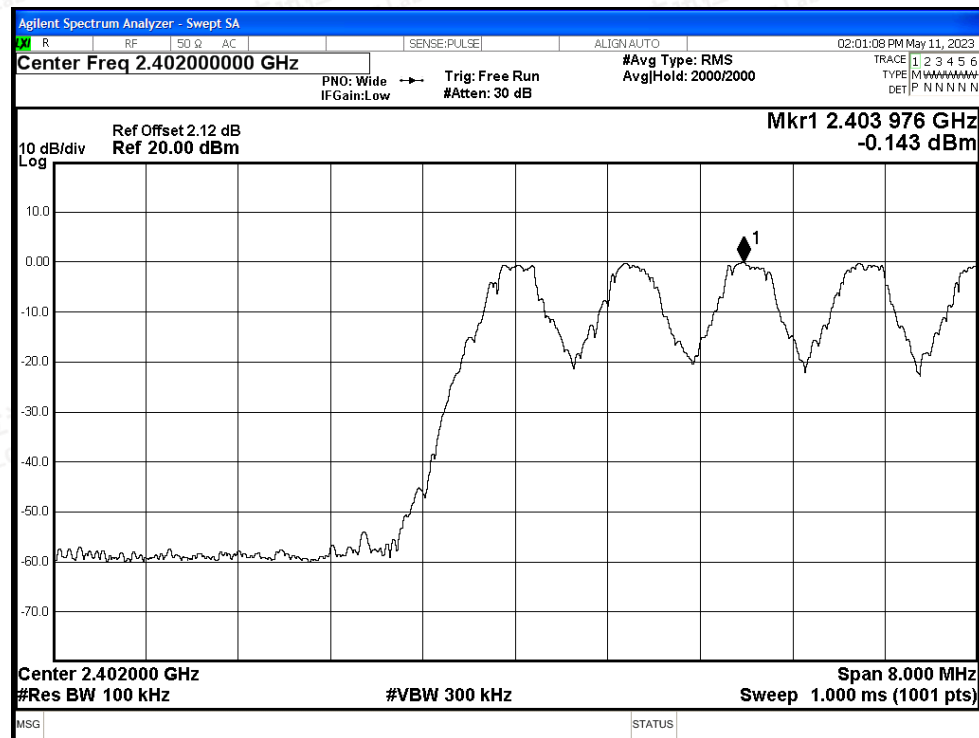
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.94	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.65	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.1	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.11	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-56.44	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-56.89	-20	Pass



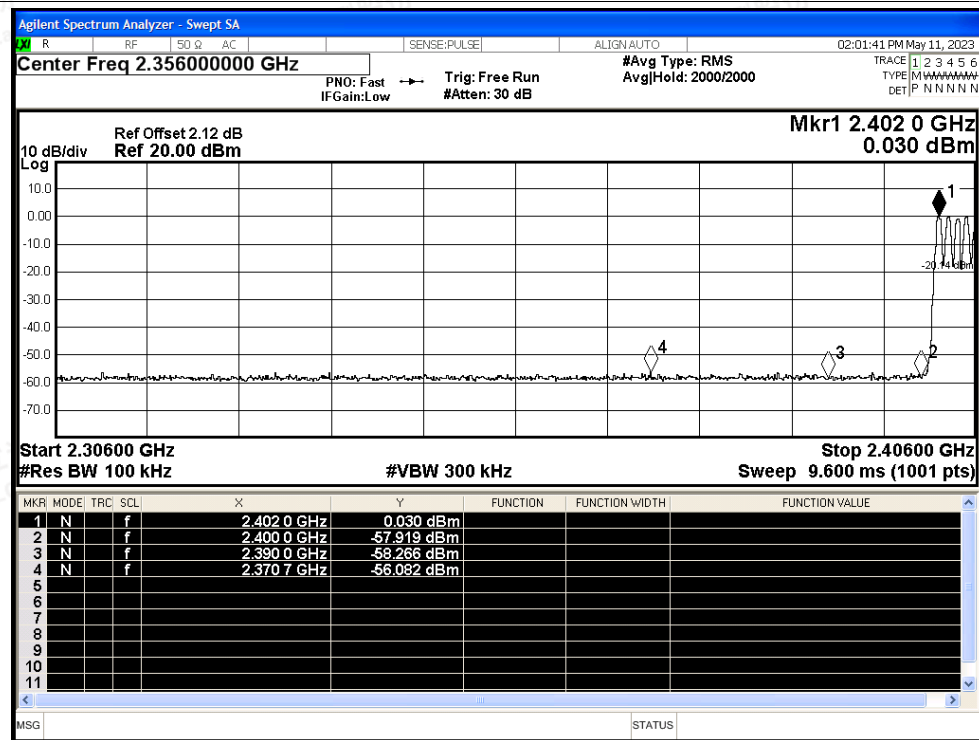


Test Graphs

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



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

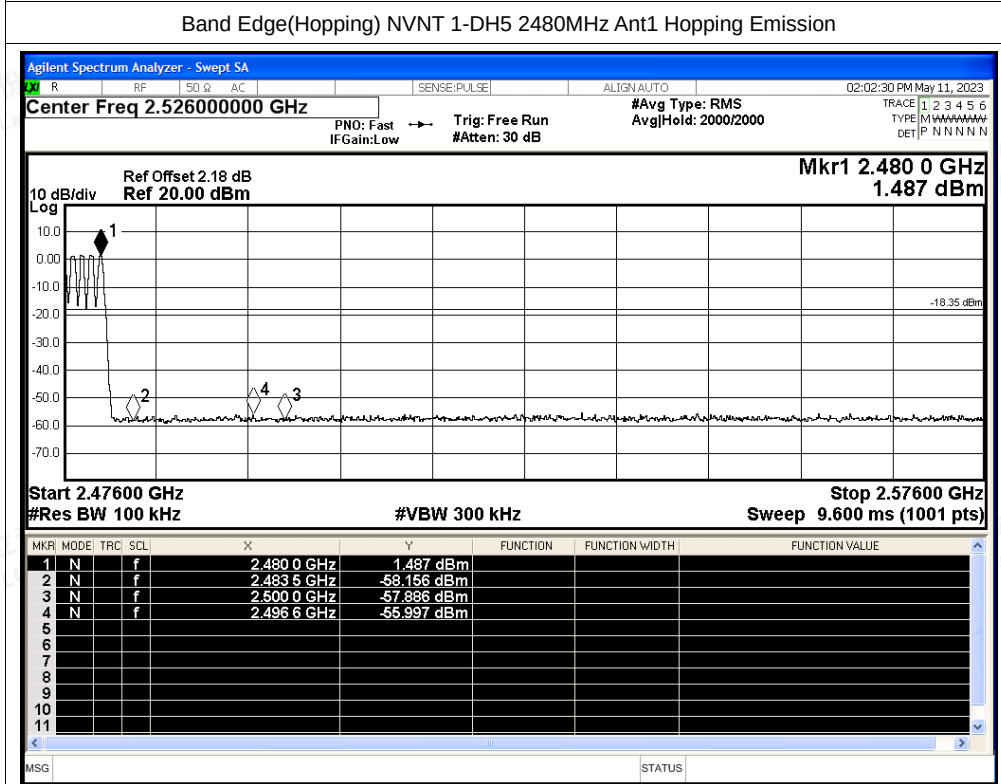
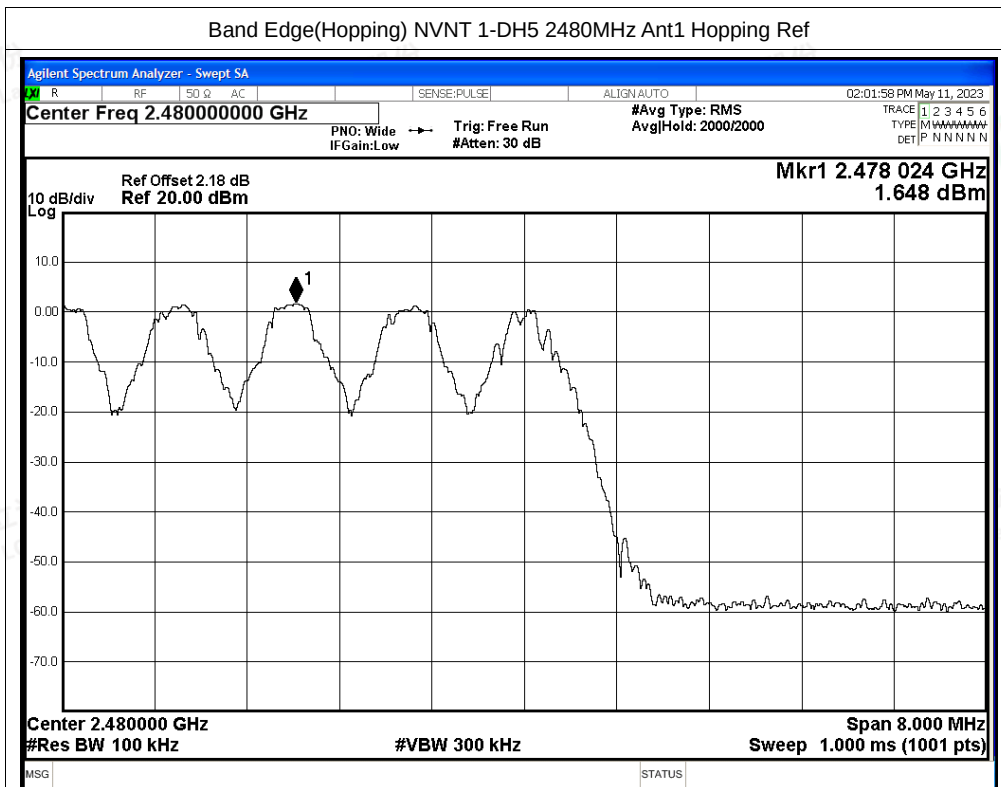


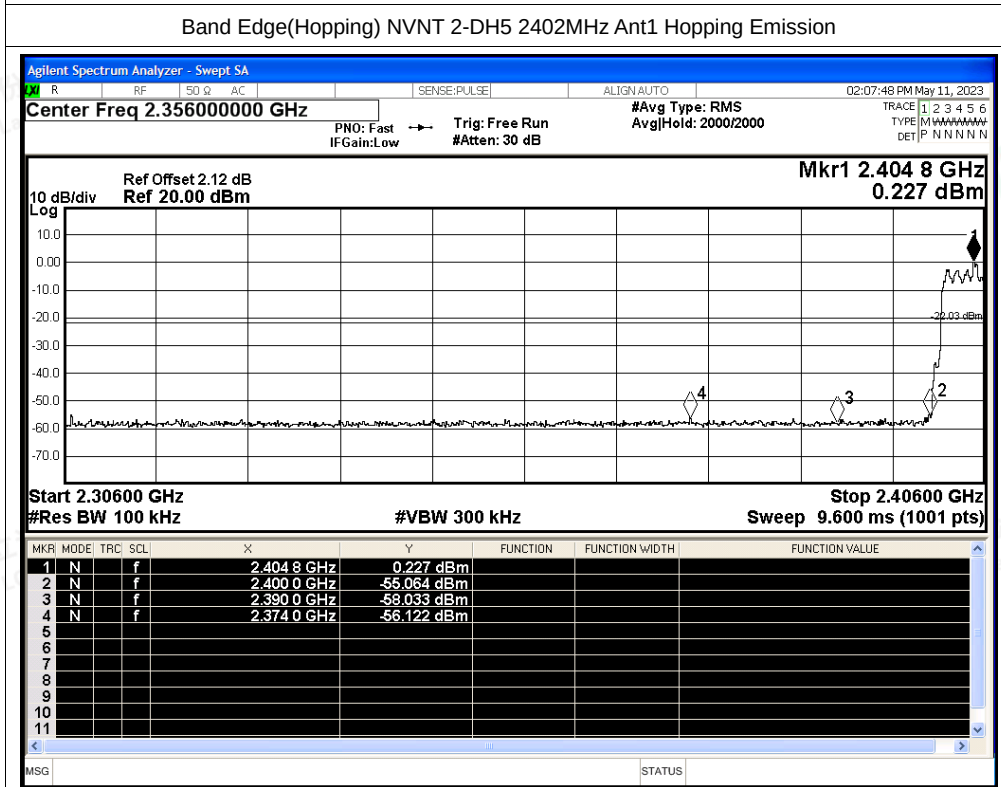
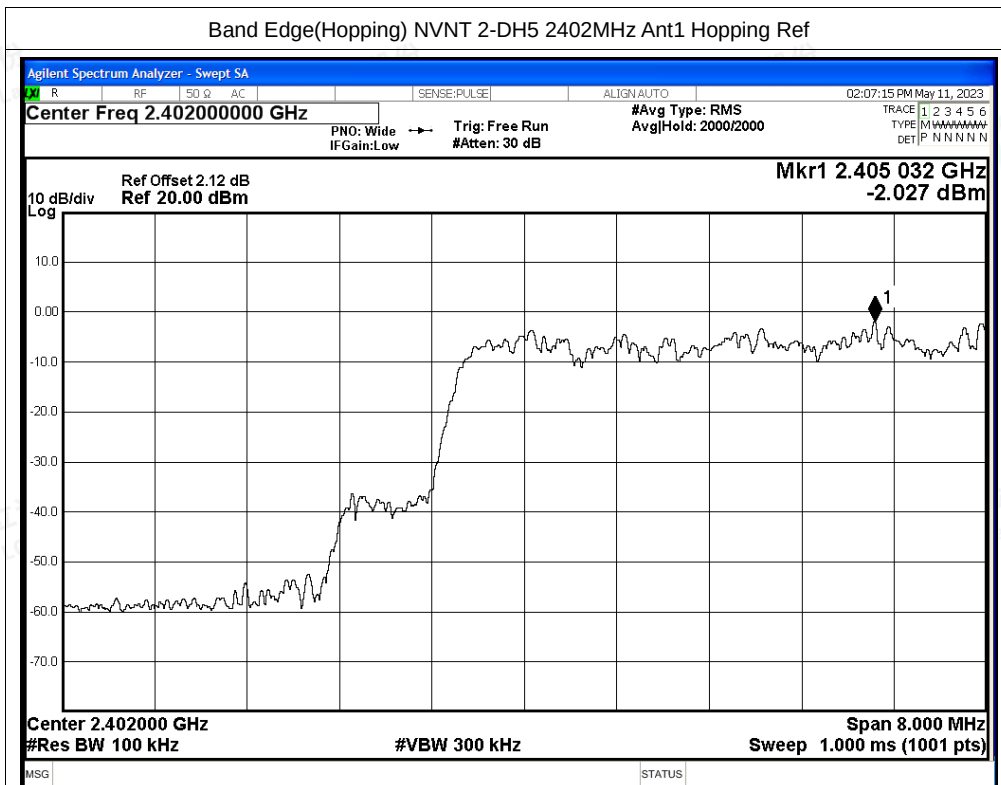
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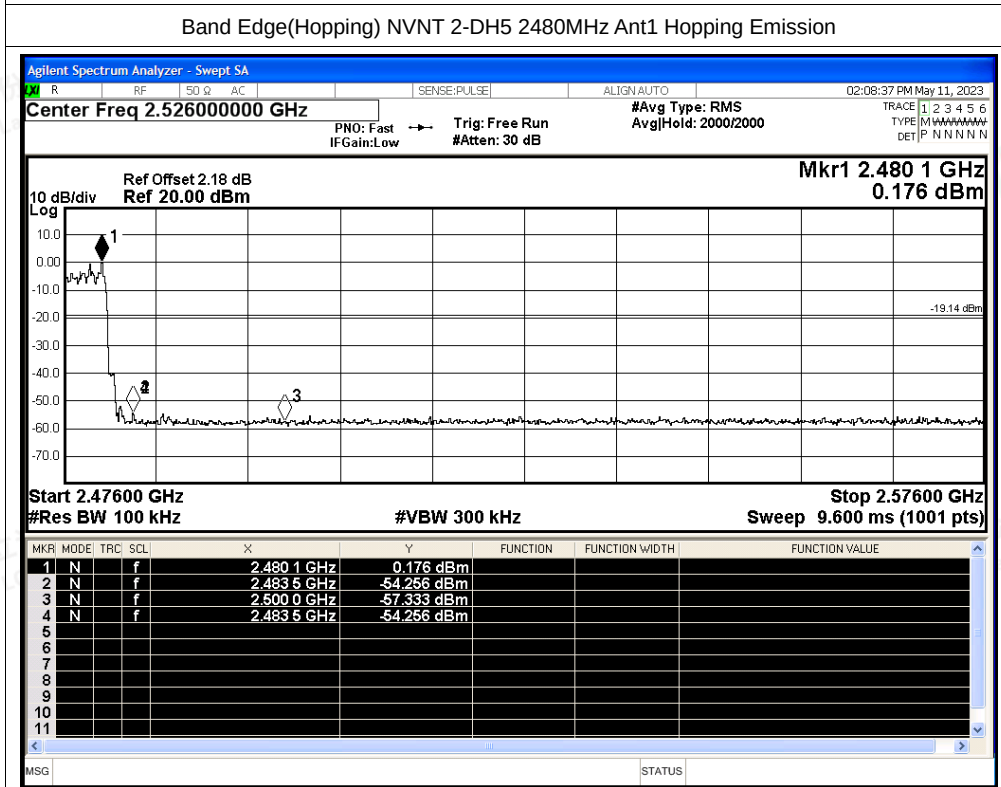
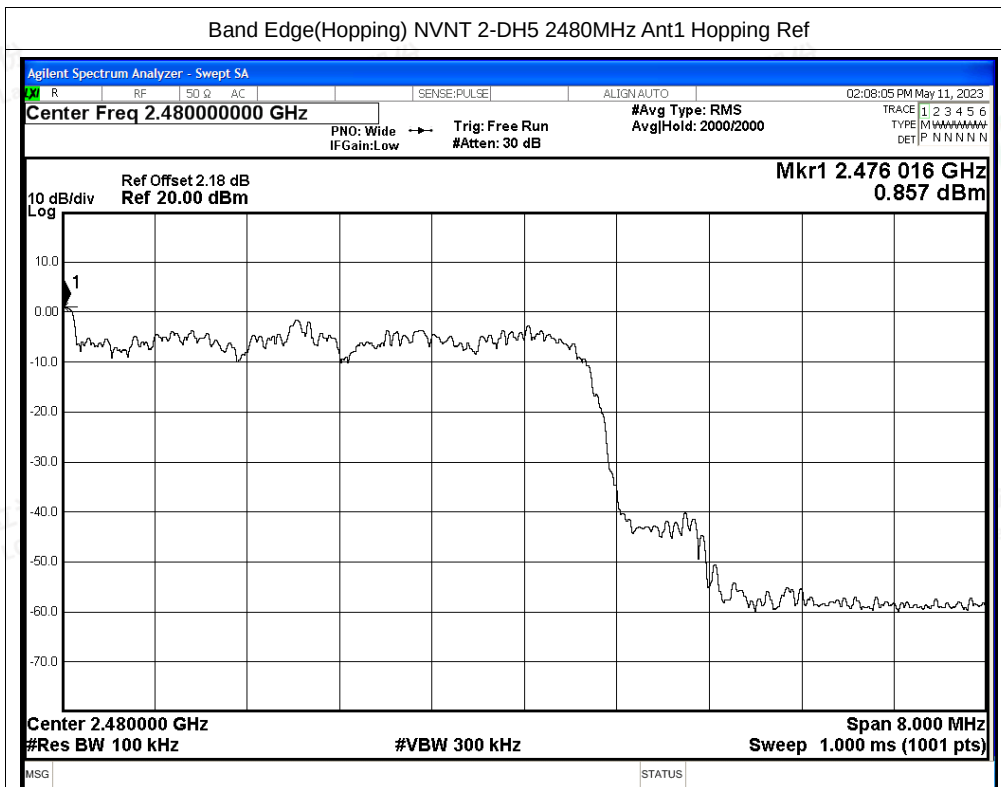


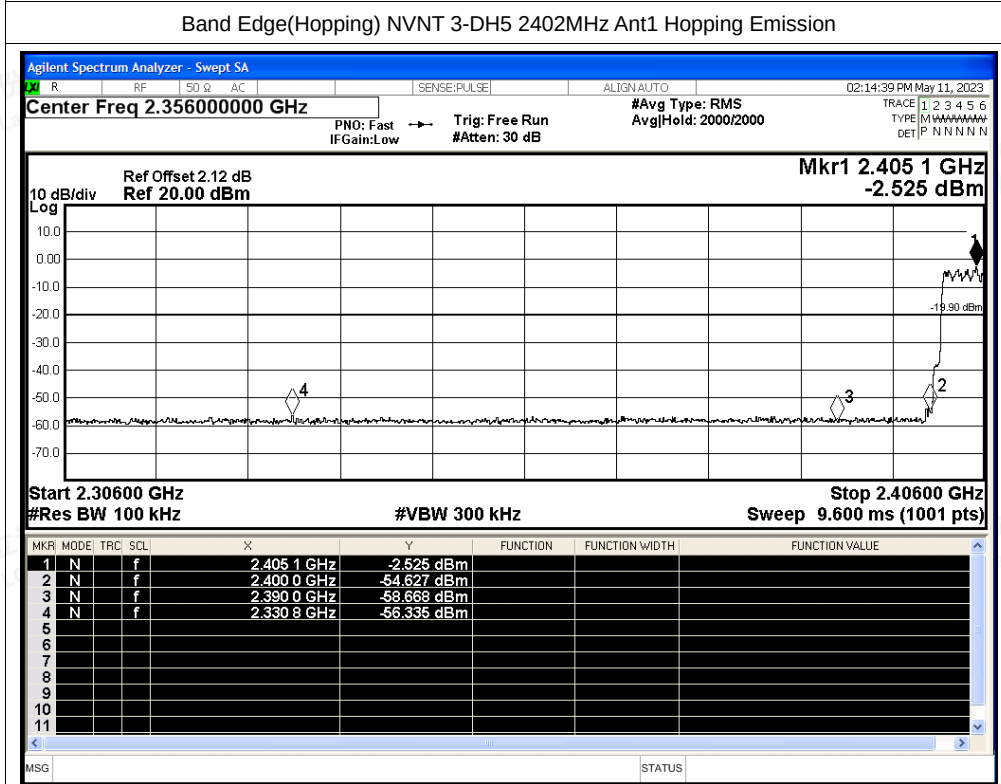
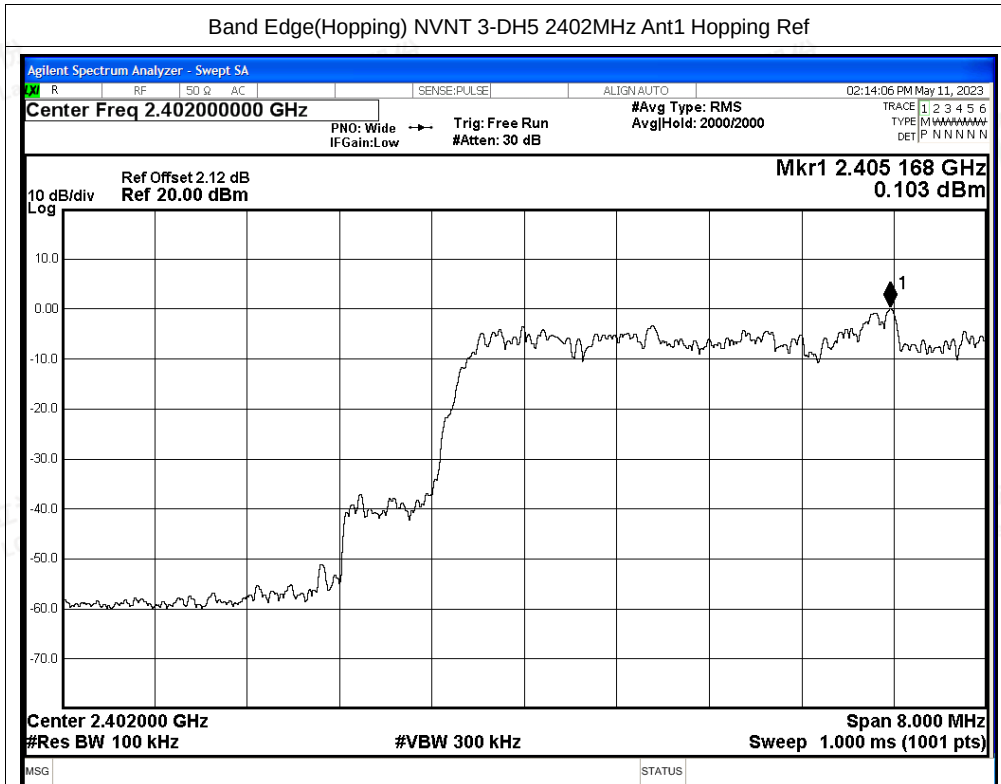
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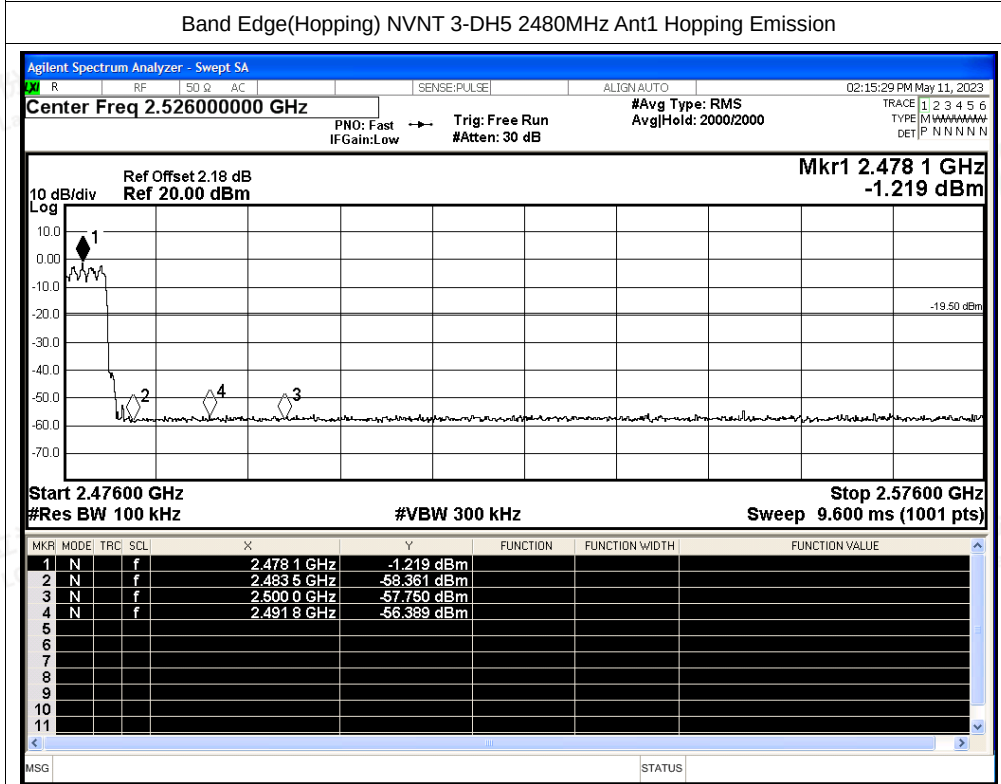
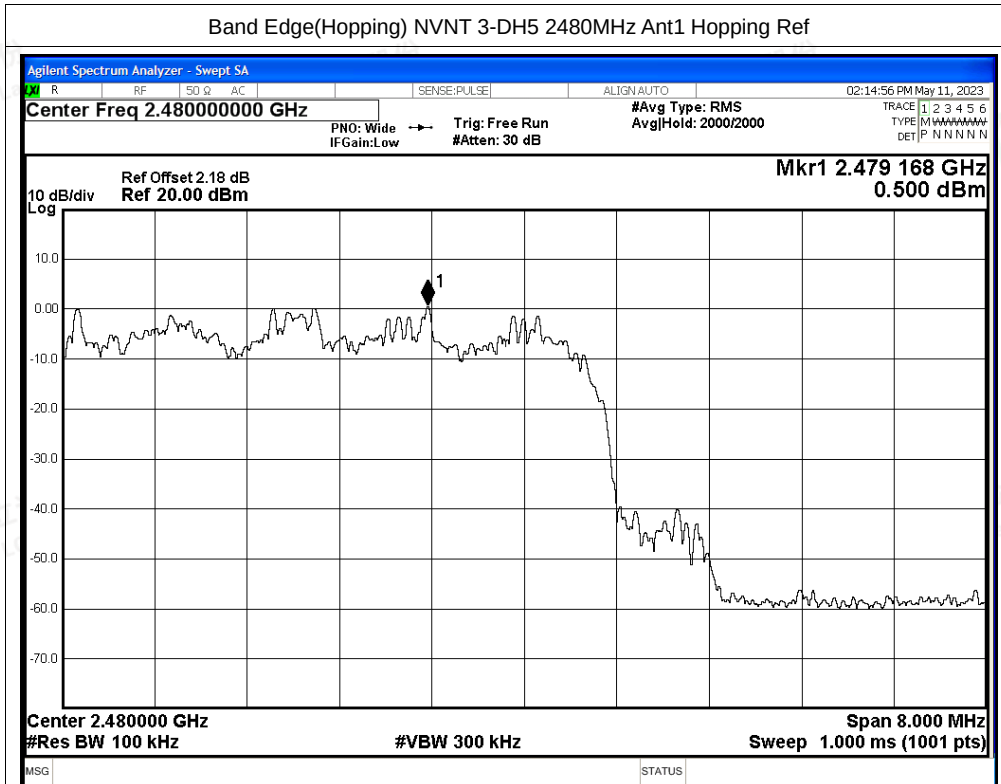
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A.7 Conducted RF Spurious Emission

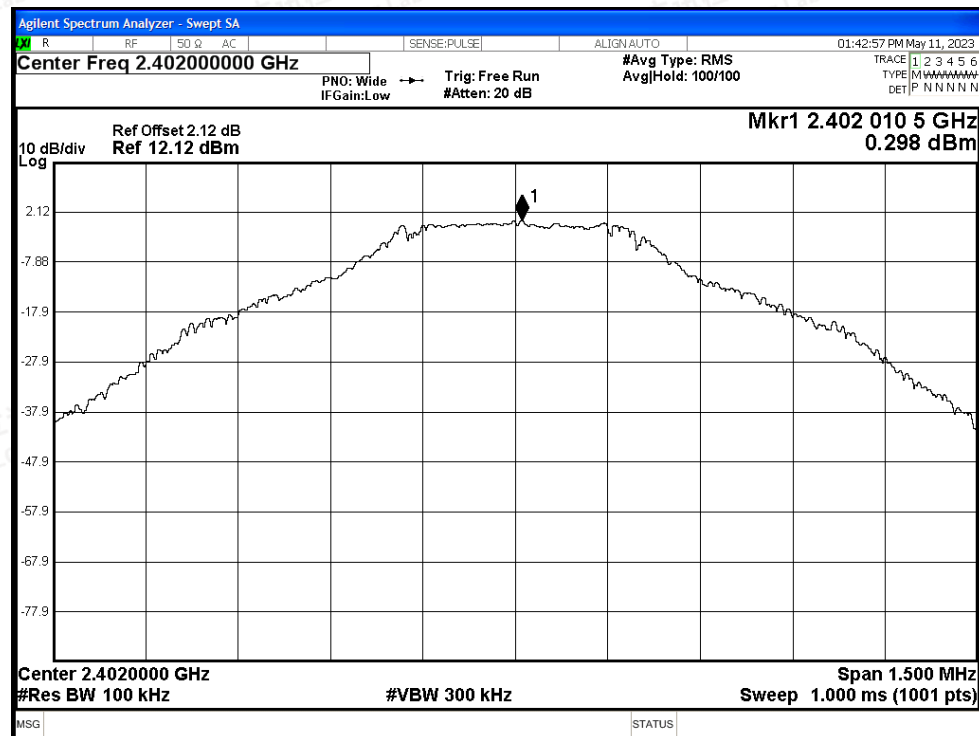
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.37	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.96	-20	Pass
NVNT	1-DH5	2480	Ant1	-56.76	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.48	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.65	-20	Pass
NVNT	2-DH5	2480	Ant1	-55.84	-20	Pass
NVNT	3-DH5	2402	Ant1	-55.54	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.64	-20	Pass
NVNT	3-DH5	2480	Ant1	-56.76	-20	Pass



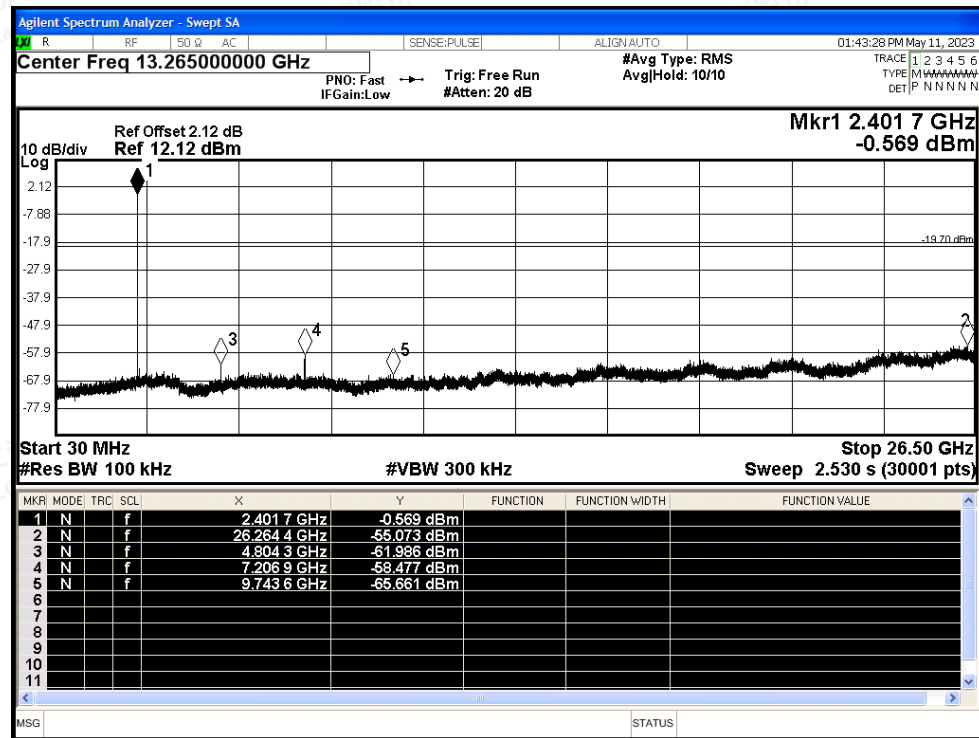


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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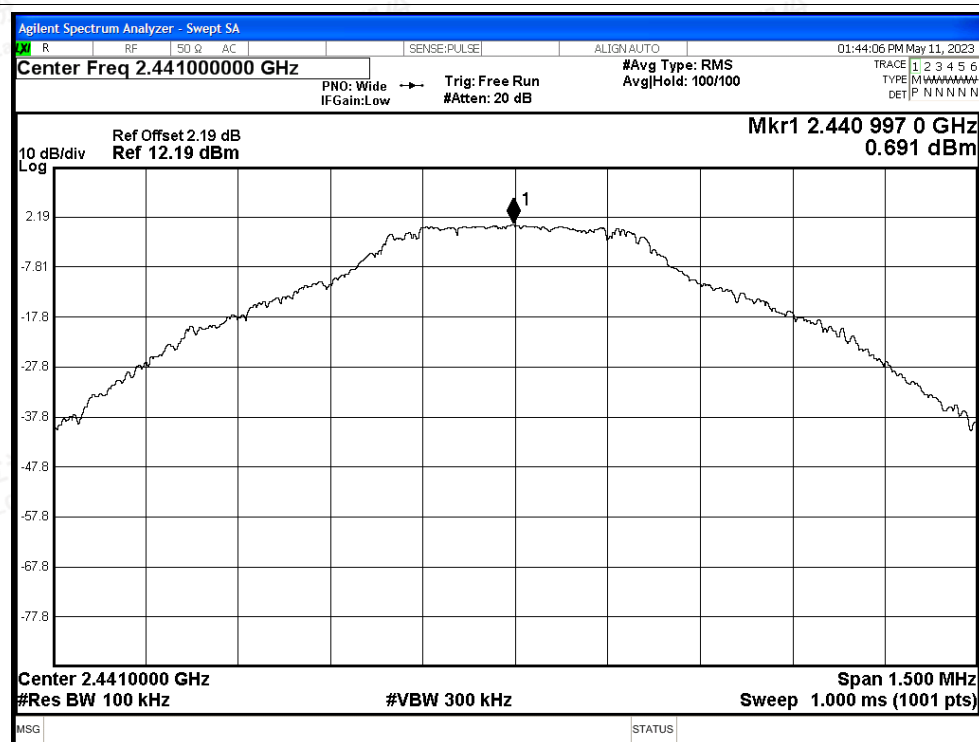
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

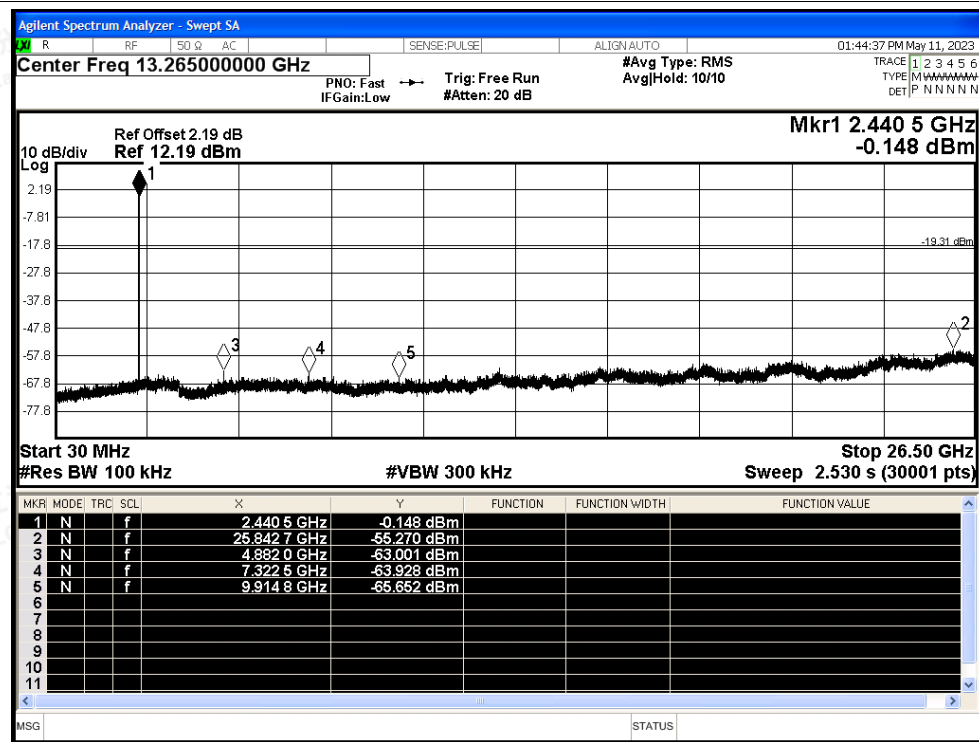
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

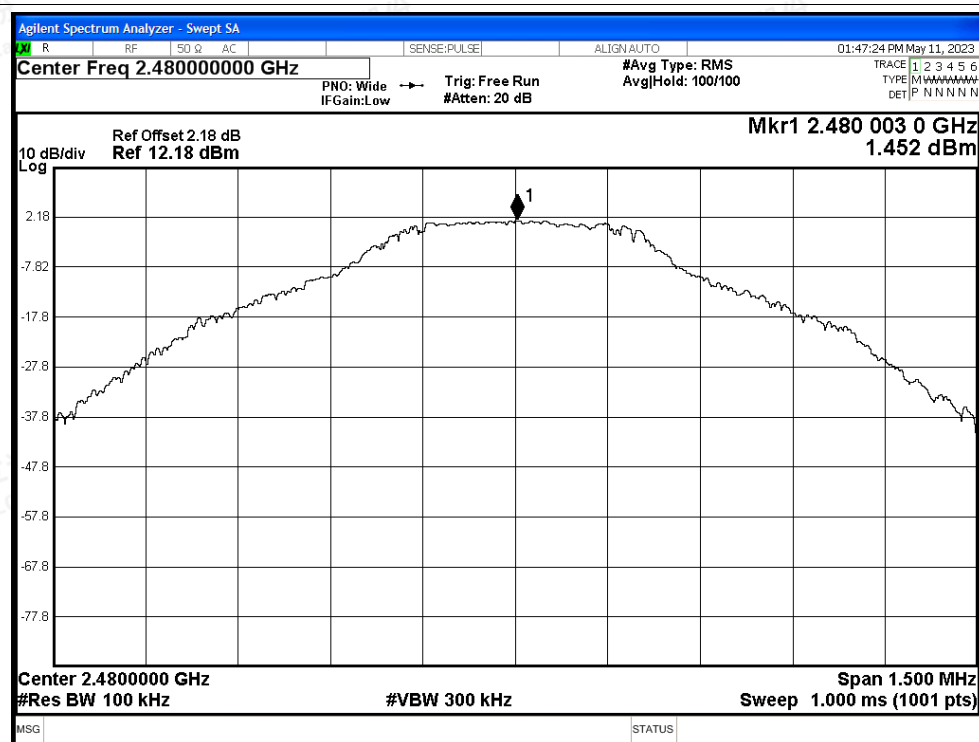


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

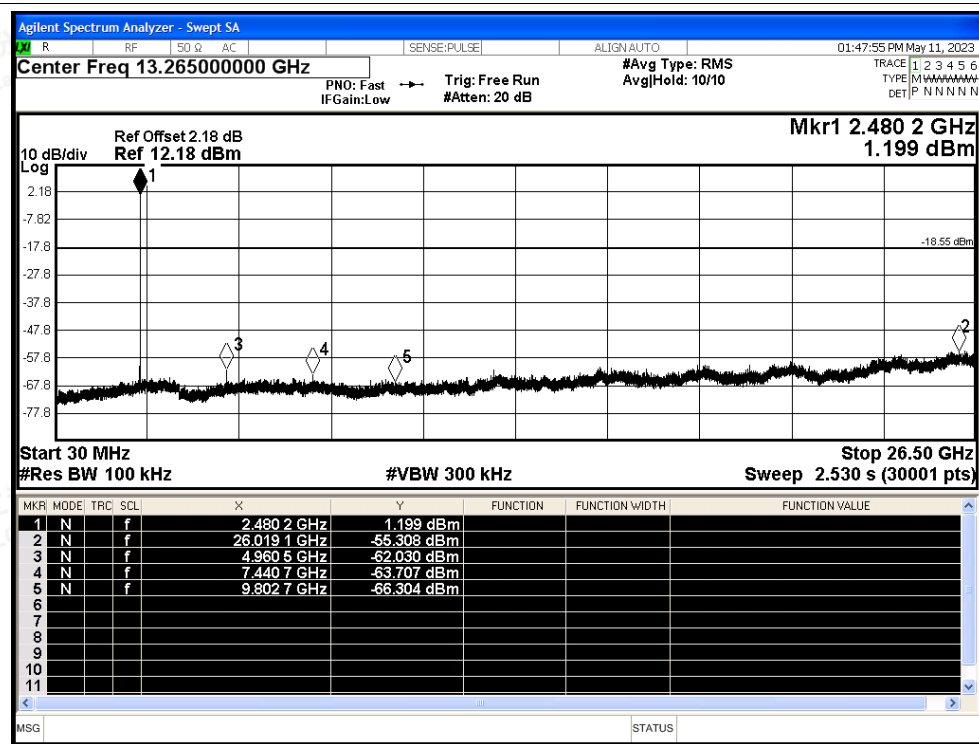




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

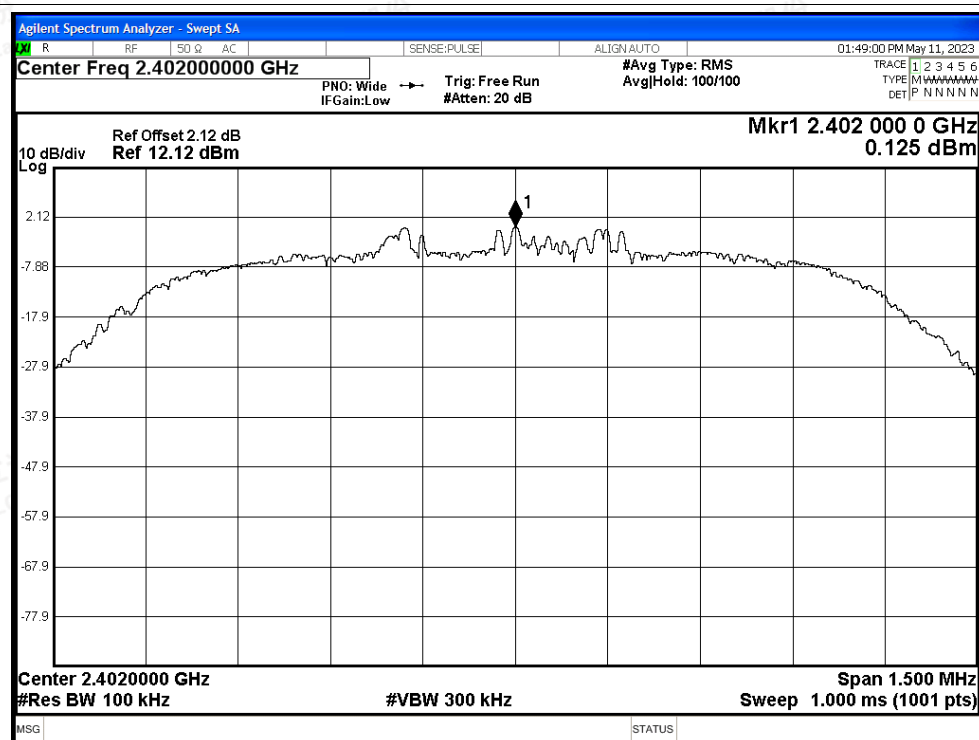


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

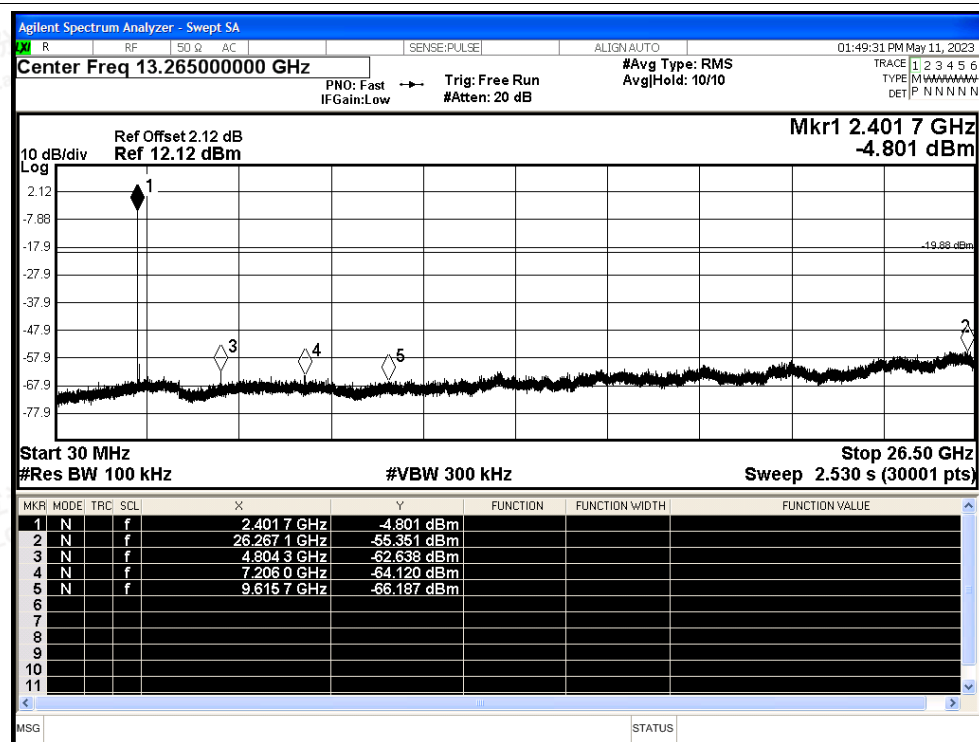




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

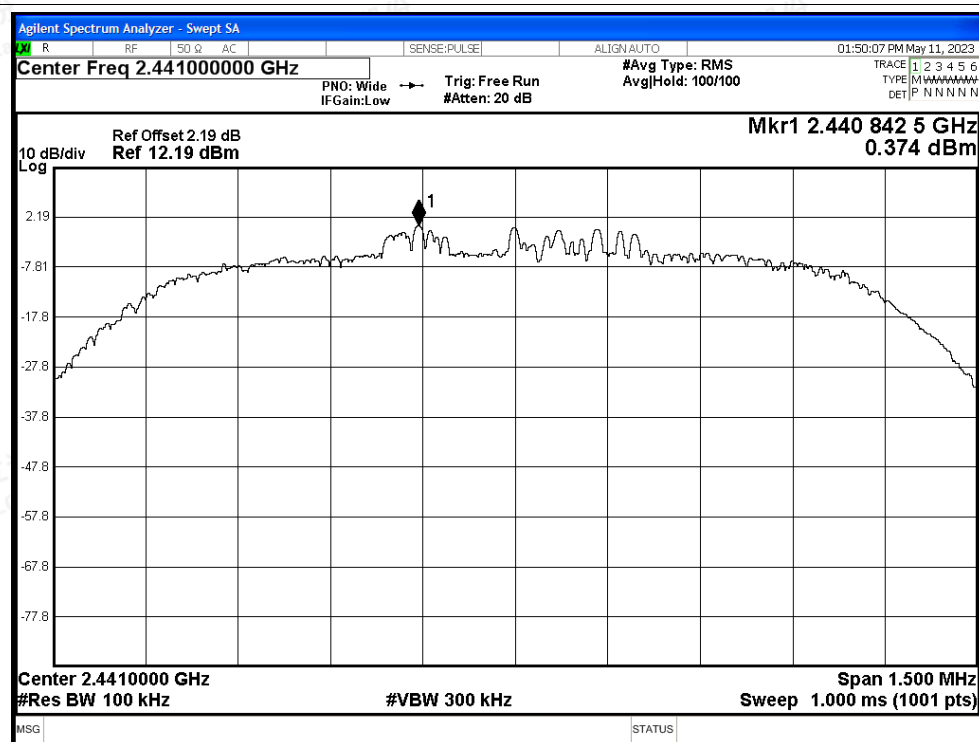


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

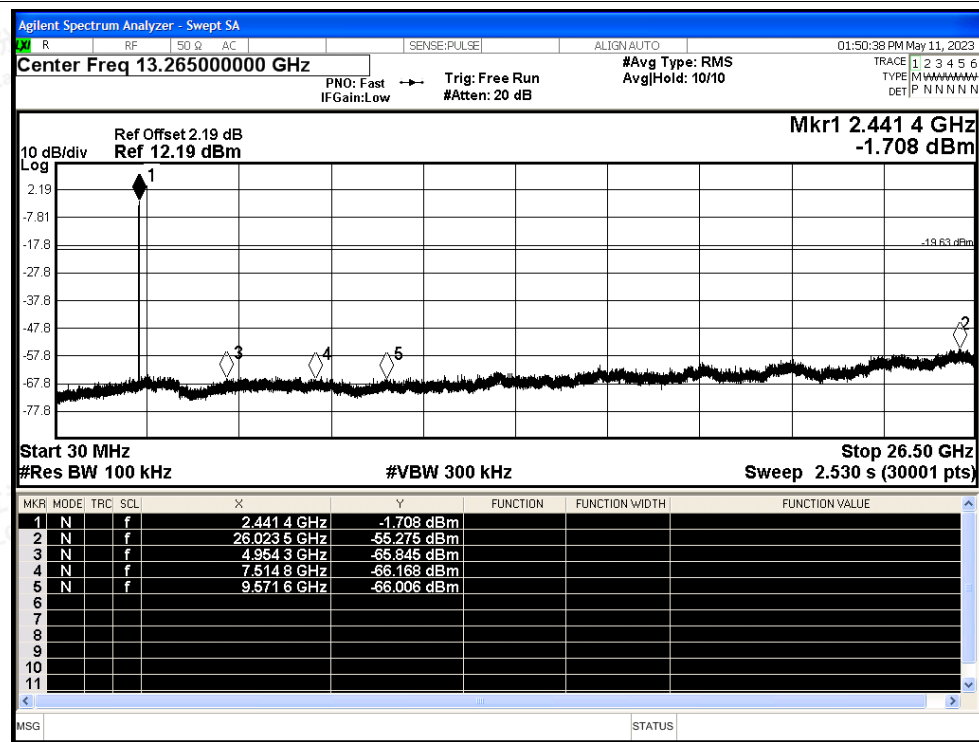




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



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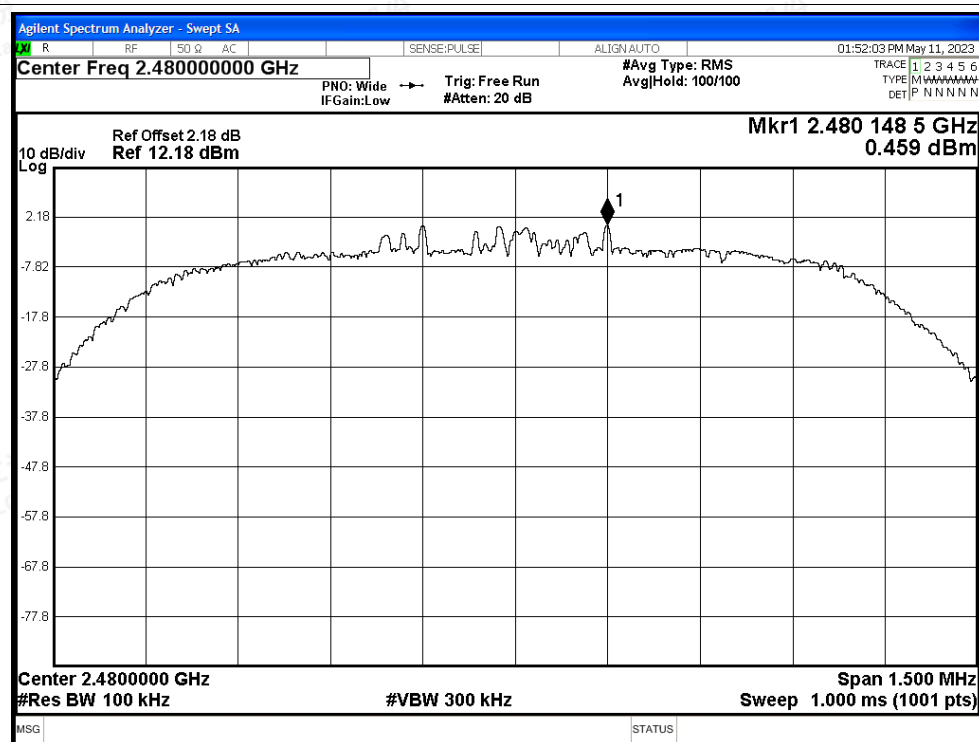
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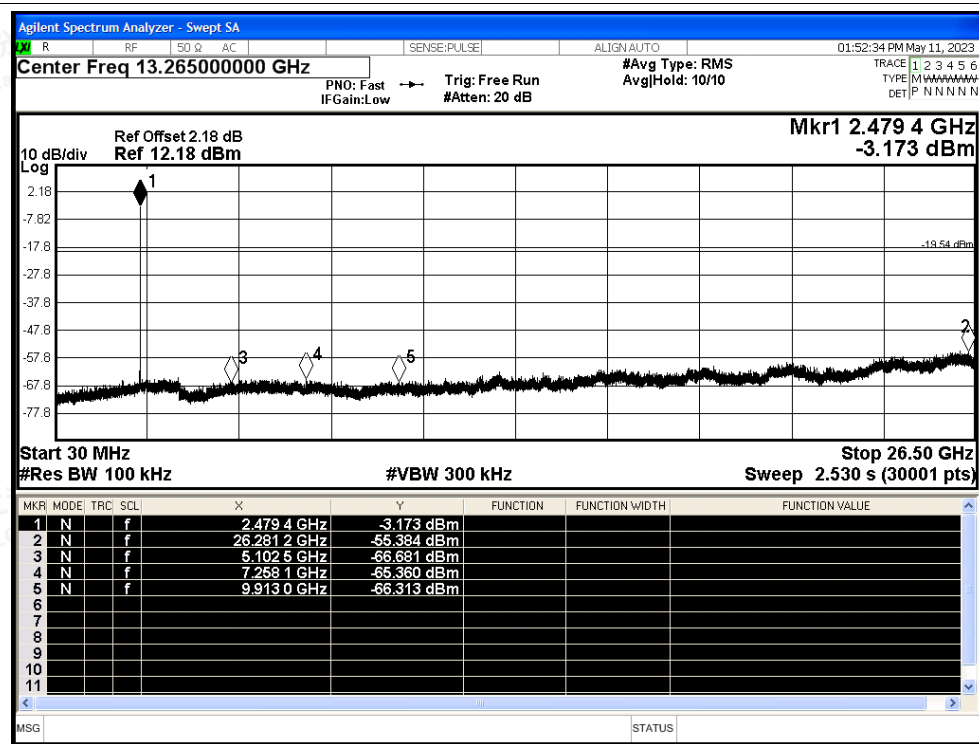
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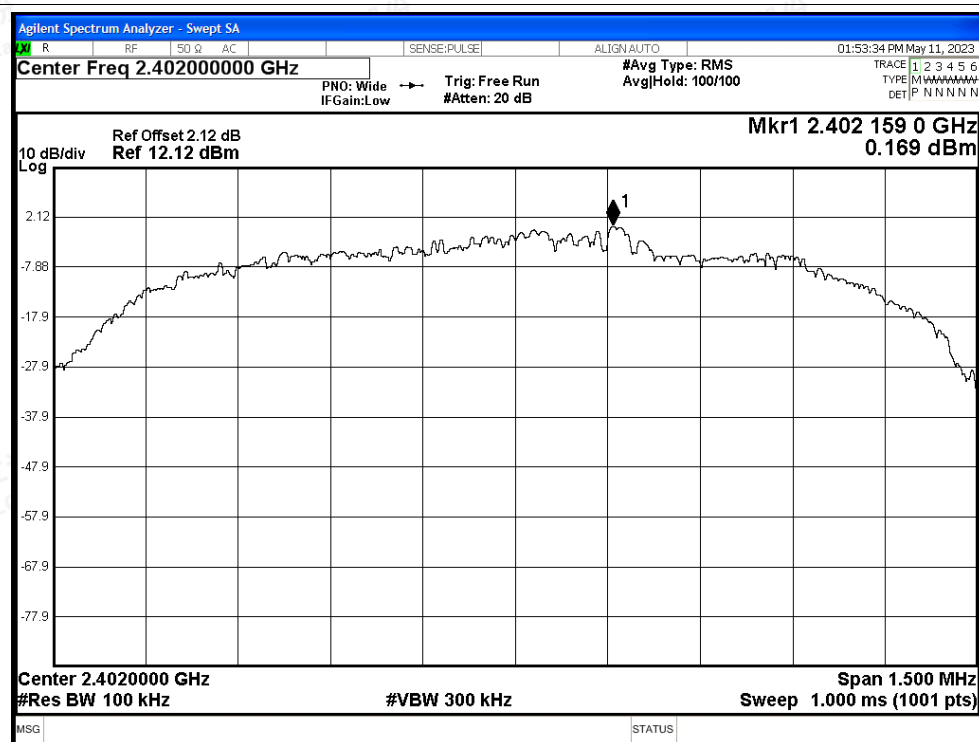


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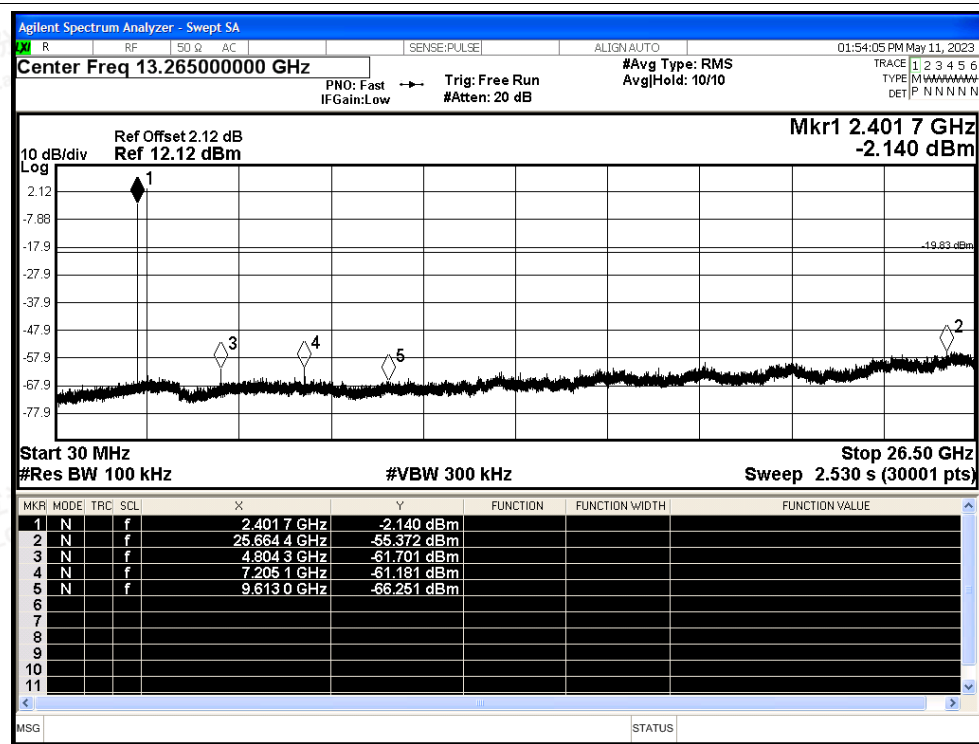




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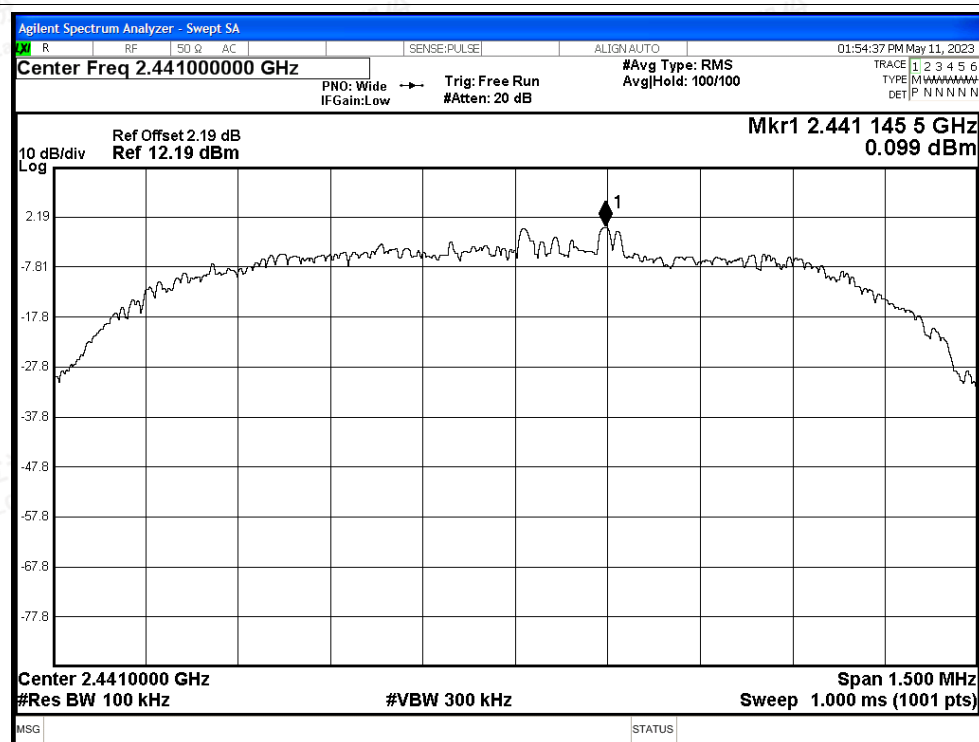


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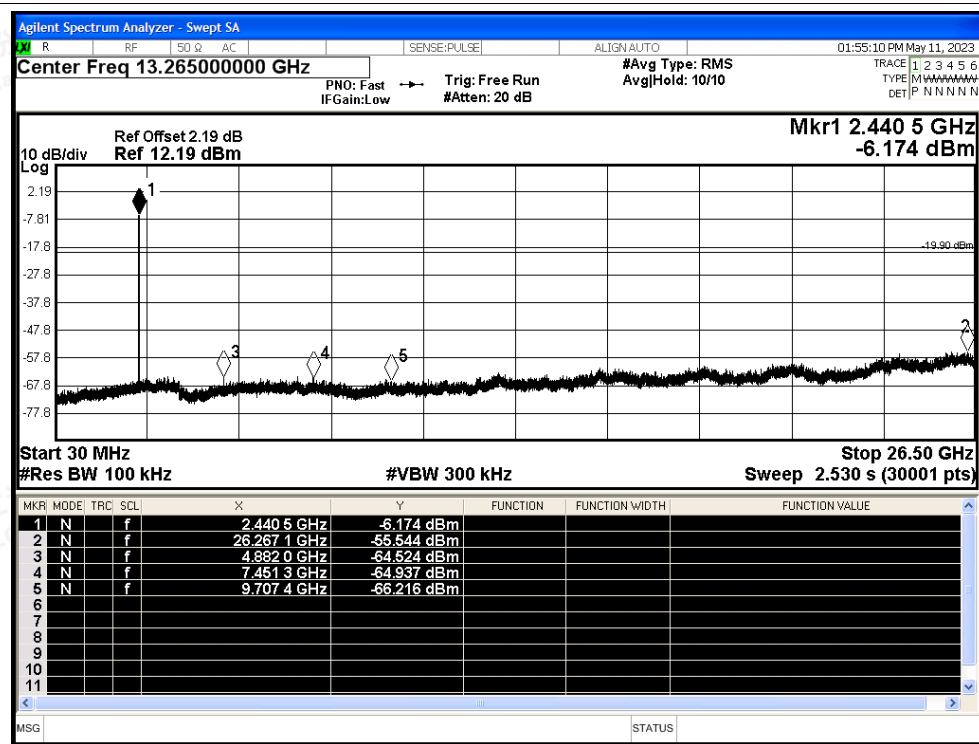




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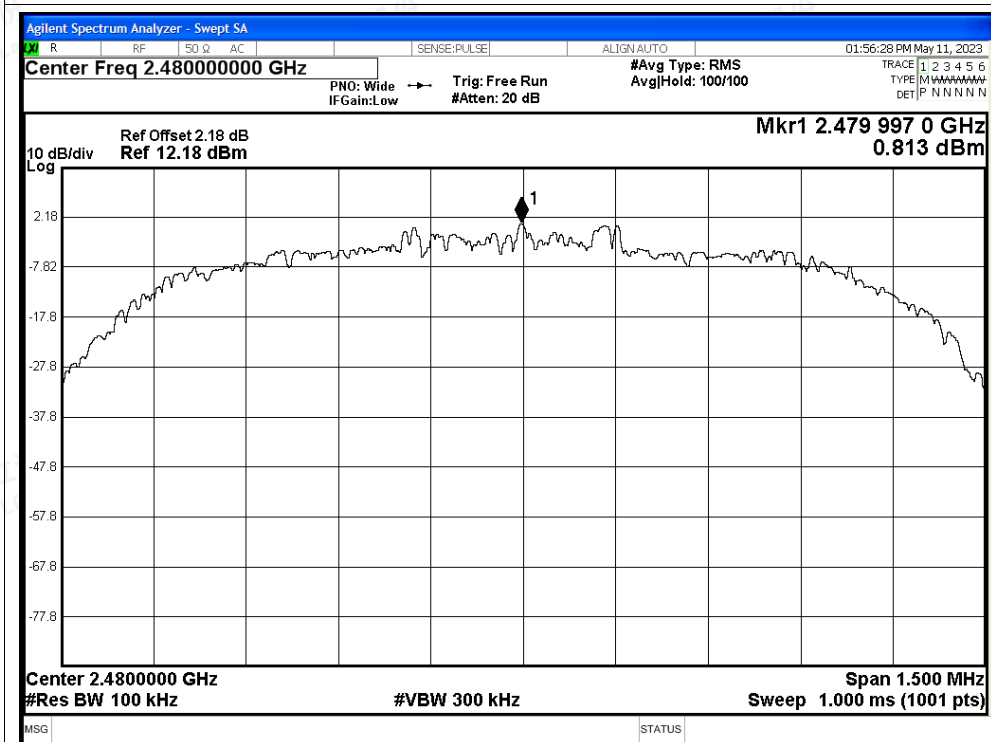


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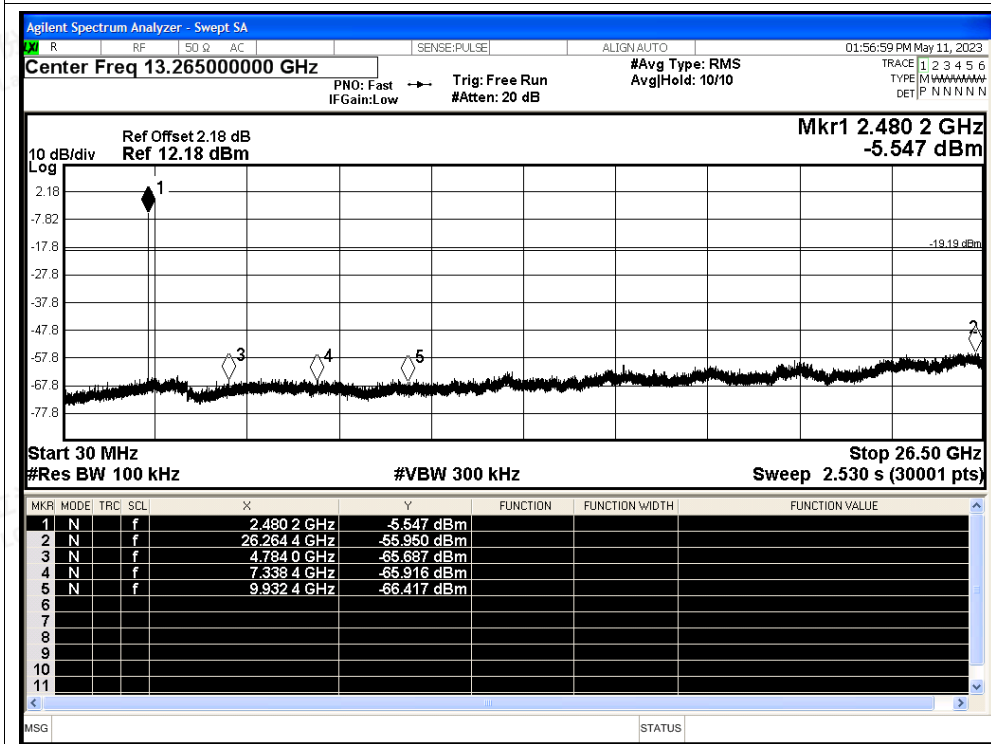




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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

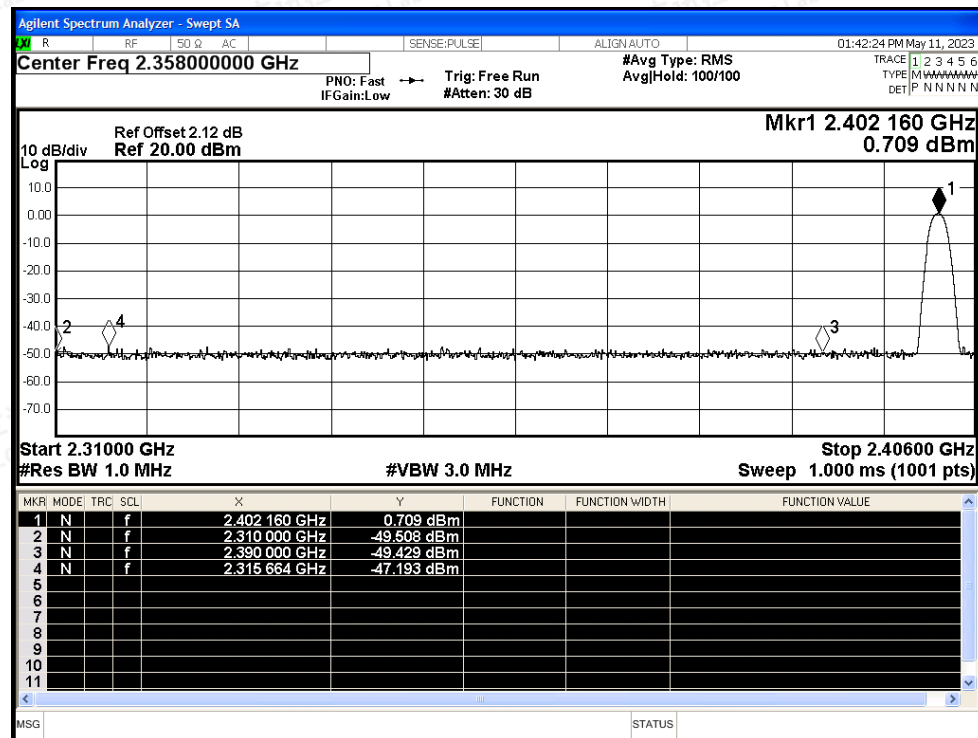
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-49.51	2.7	48.42	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.8	2.7	40.13	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2315.664	-47.19	2.7	50.74	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2375.76	-57.21	2.7	40.72	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.43	2.7	48.50	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.39	2.7	40.54	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.46	2.7	48.47	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.02	2.7	42.91	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2496.592	-47.24	2.7	50.69	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.02	2.7	42.91	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-47.79	2.7	50.14	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-56.99	2.7	40.94	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.17	2.7	46.76	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.8	2.7	40.13	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2368.08	-46.79	2.7	51.14	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2384.88	-57.3	2.7	40.63	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.5	2.7	47.43	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.5	2.7	40.43	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.48	2.7	49.45	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-54.99	2.7	42.94	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2498.2	-46.88	2.7	51.05	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-54.99	2.7	42.94	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.18	2.7	48.75	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.22	2.7	40.71	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.77	2.7	48.16	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.93	2.7	40.00	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2333.232	-46.74	2.7	51.19	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.2	-57.43	2.7	40.50	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.81	2.7	48.12	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.52	2.7	40.41	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.5	2.7	47.43	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.12	2.7	42.81	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2494.696	-46.38	2.7	51.55	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.12	2.7	42.81	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.01	2.7	48.92	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.36	2.7	40.57	Average	54	Pass



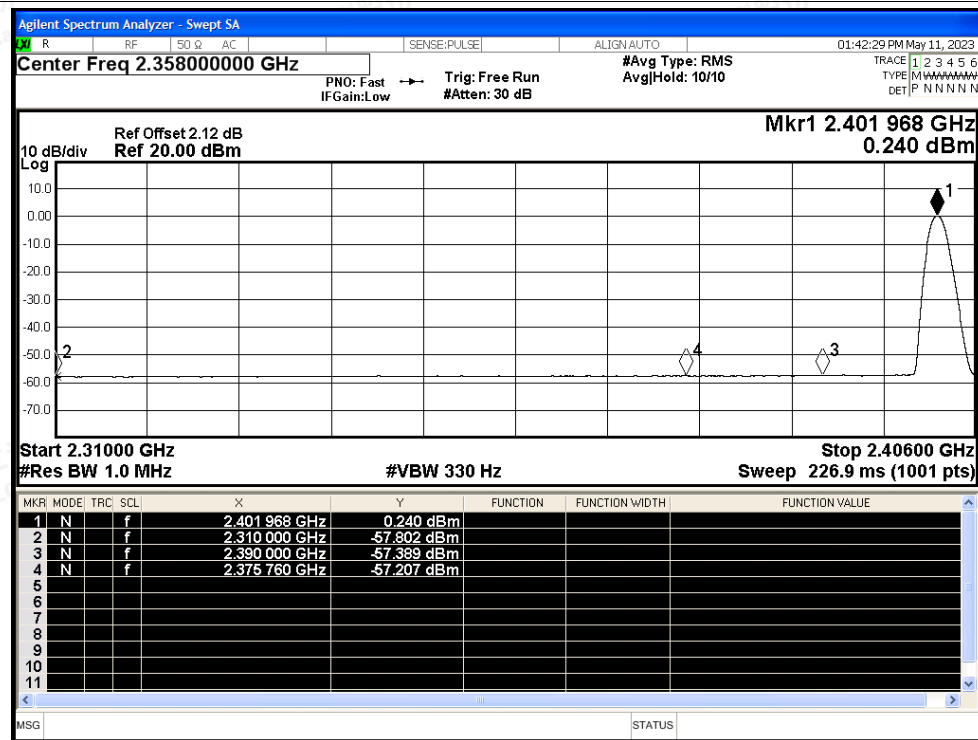


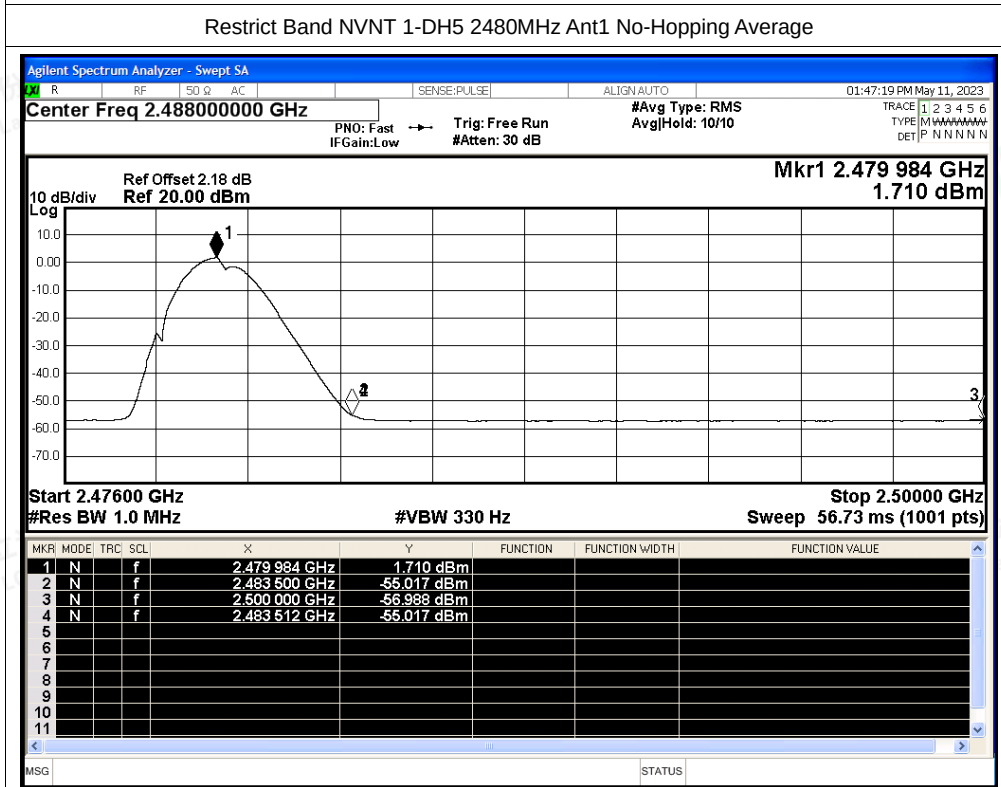
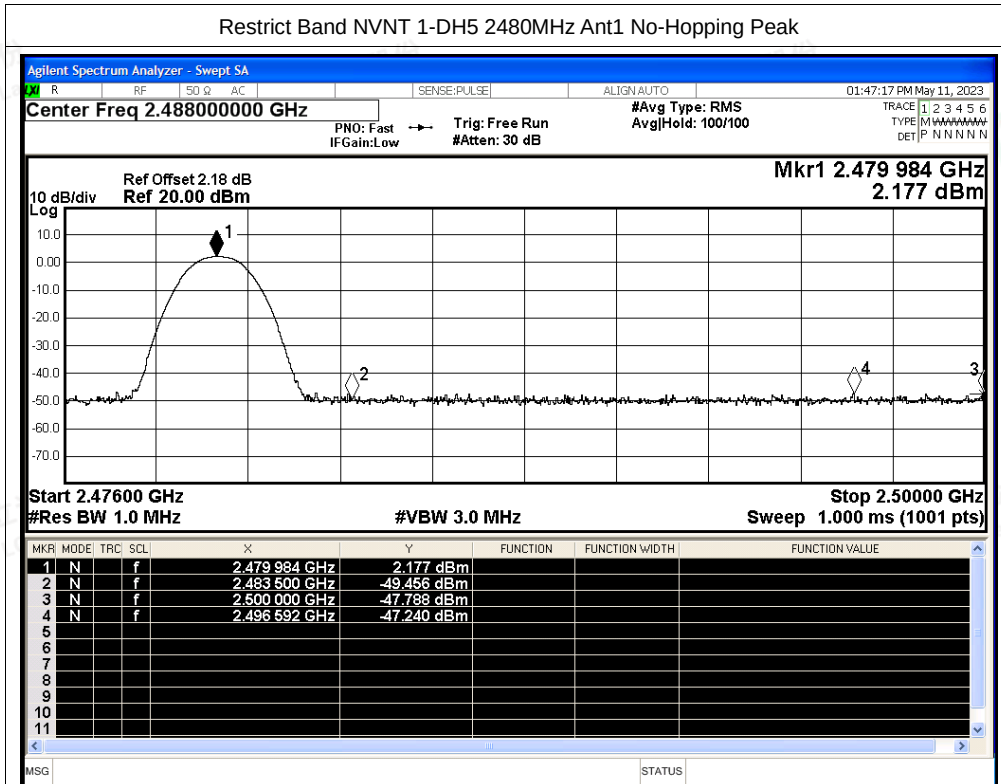
Test Graphs

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



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



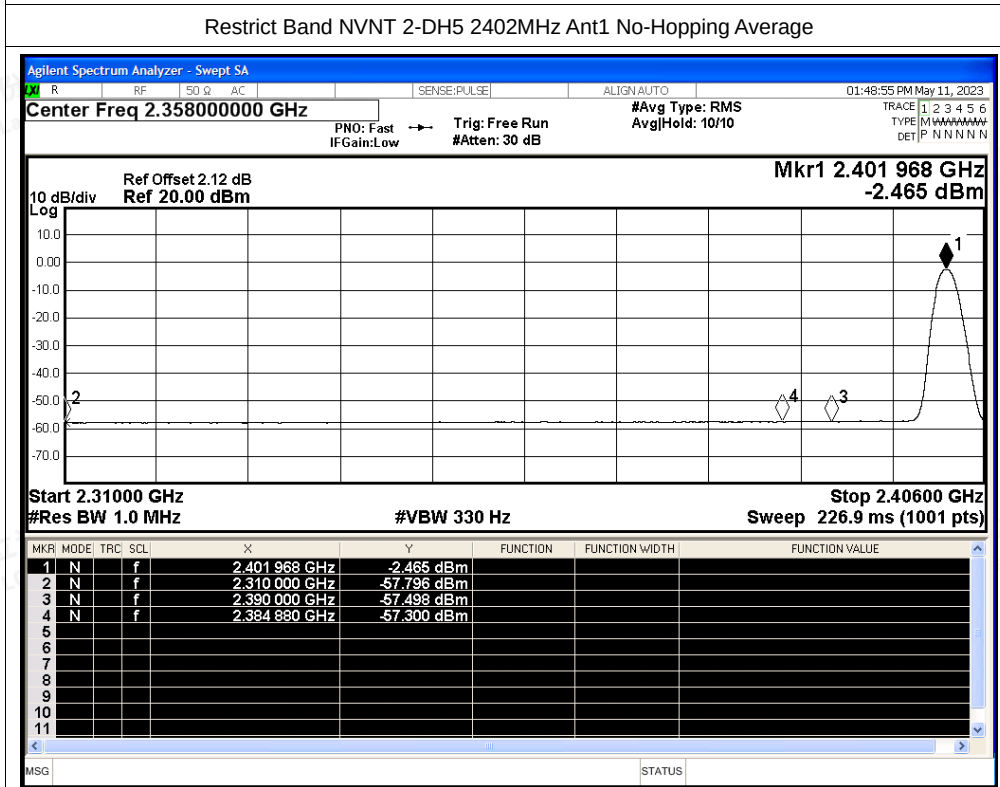
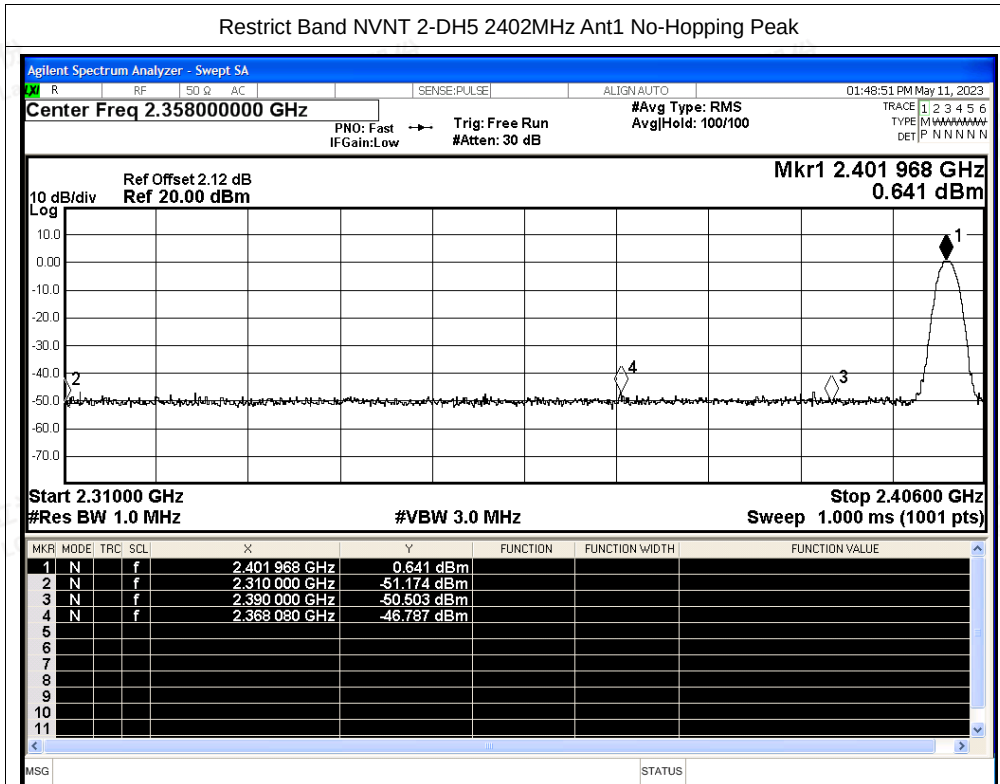


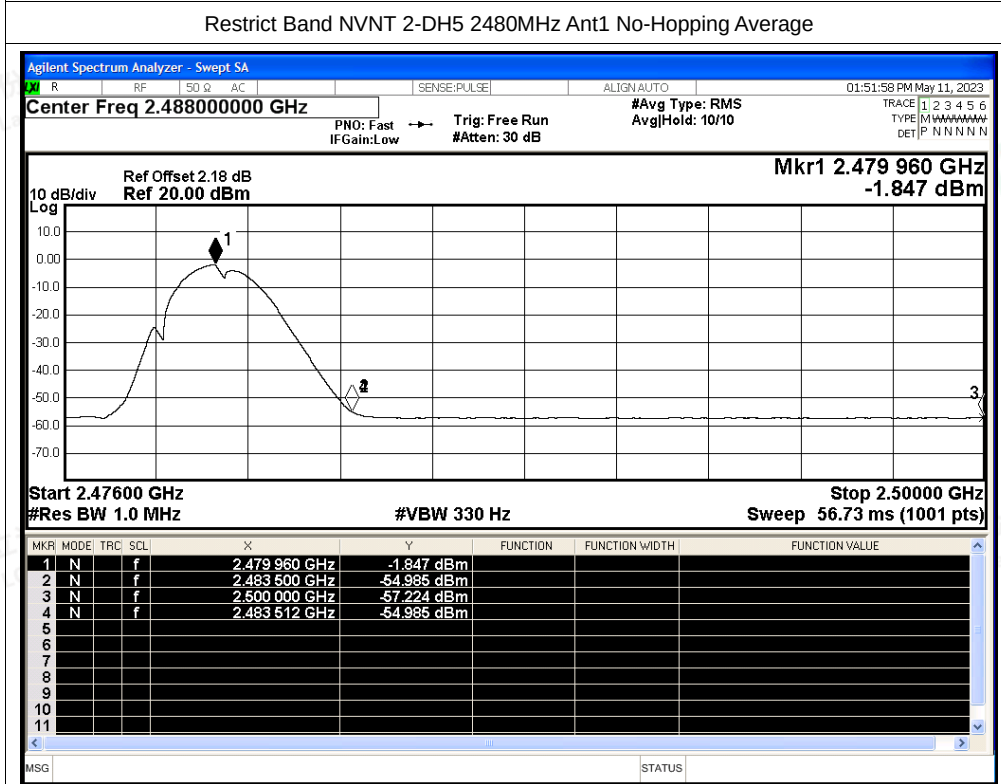
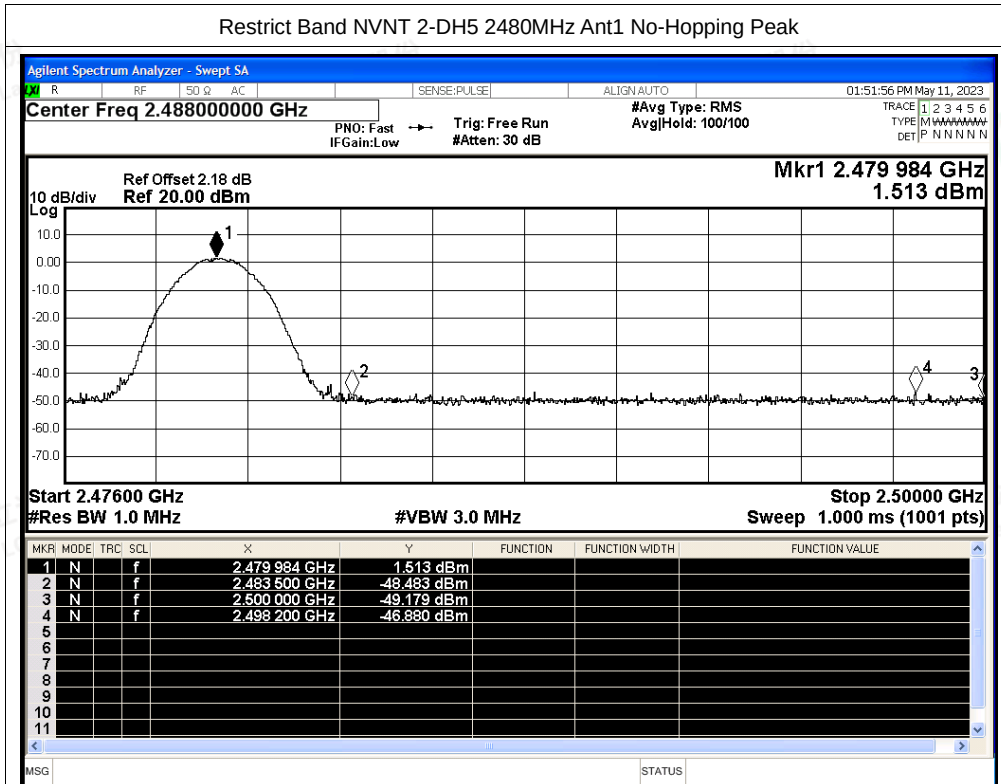
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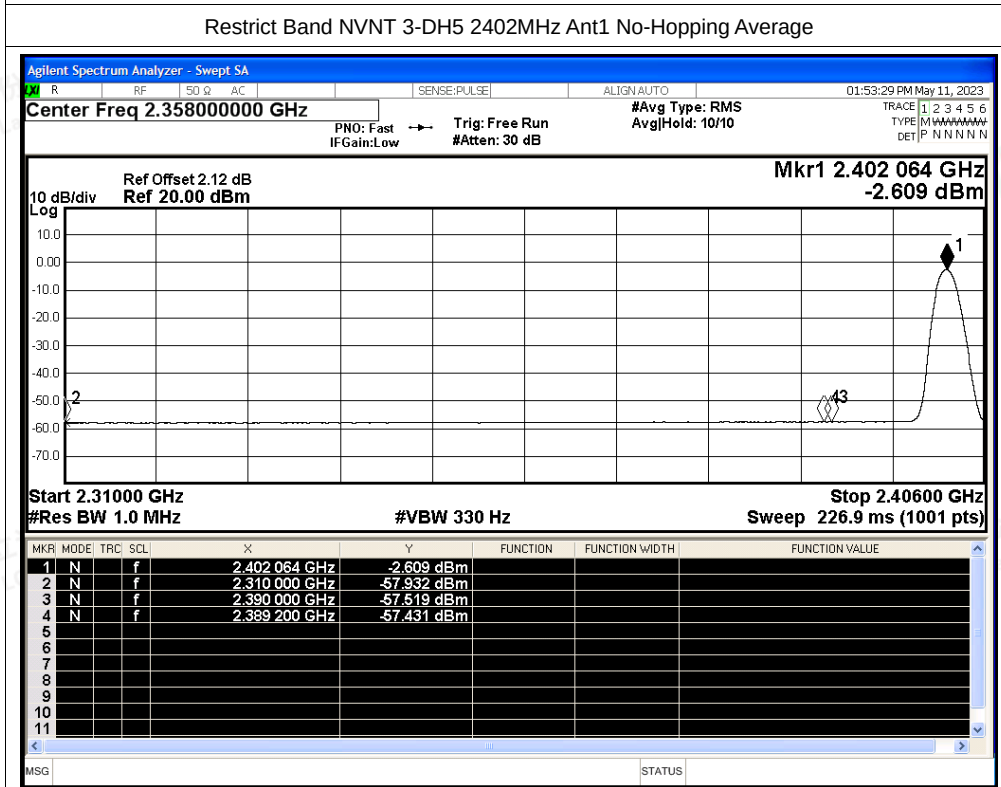
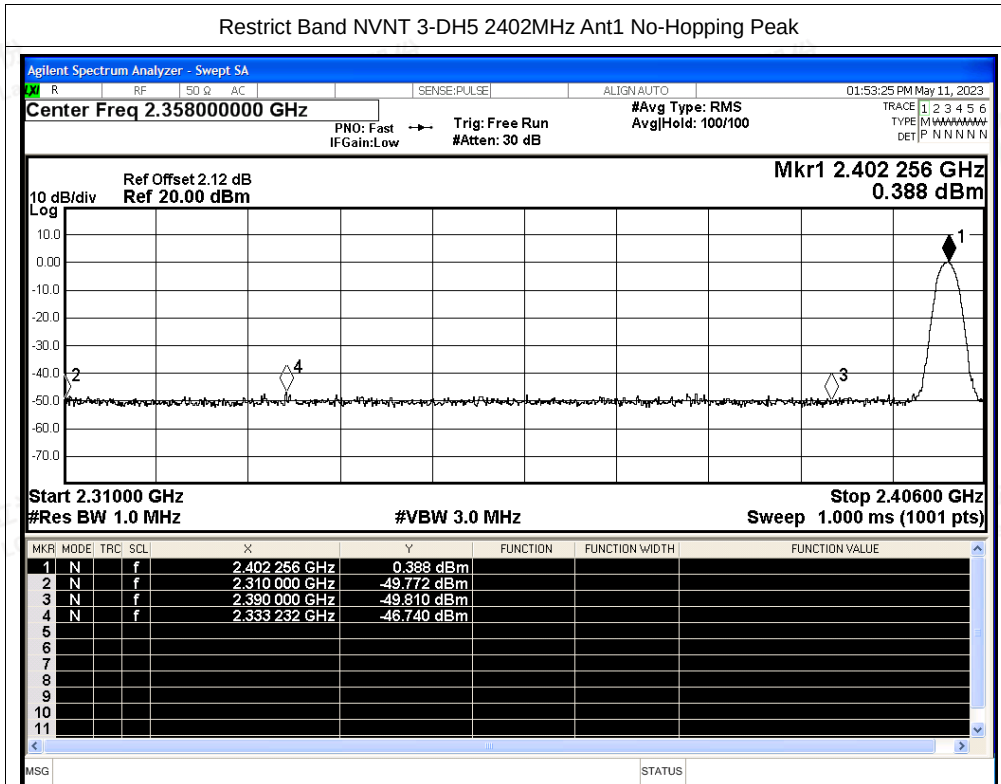


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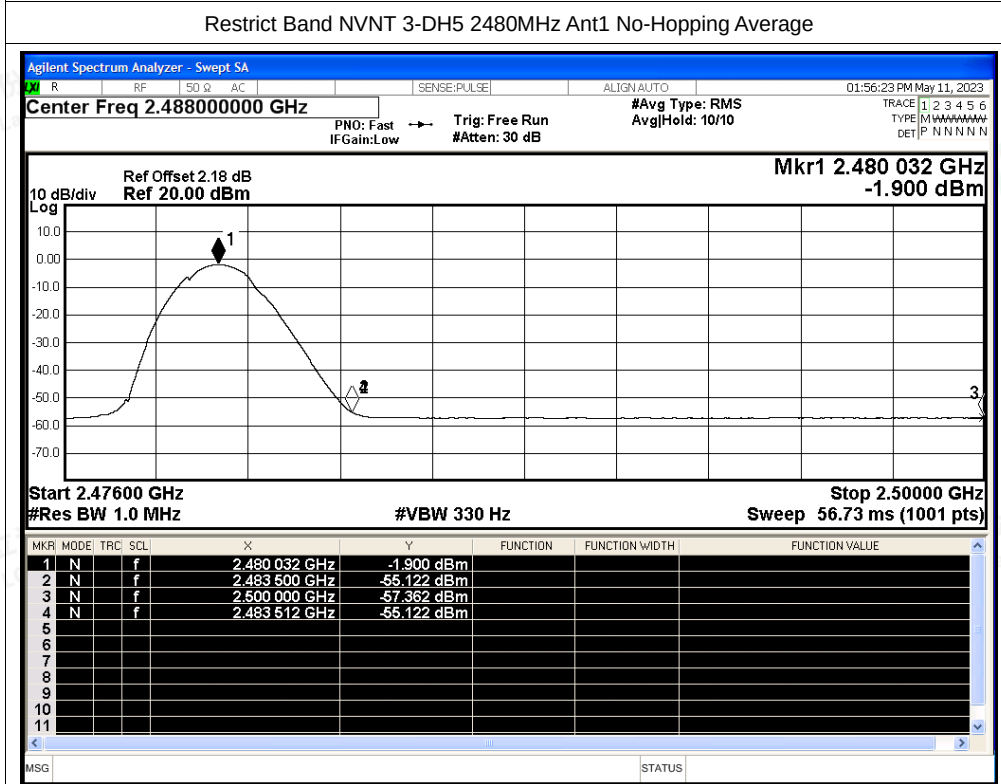
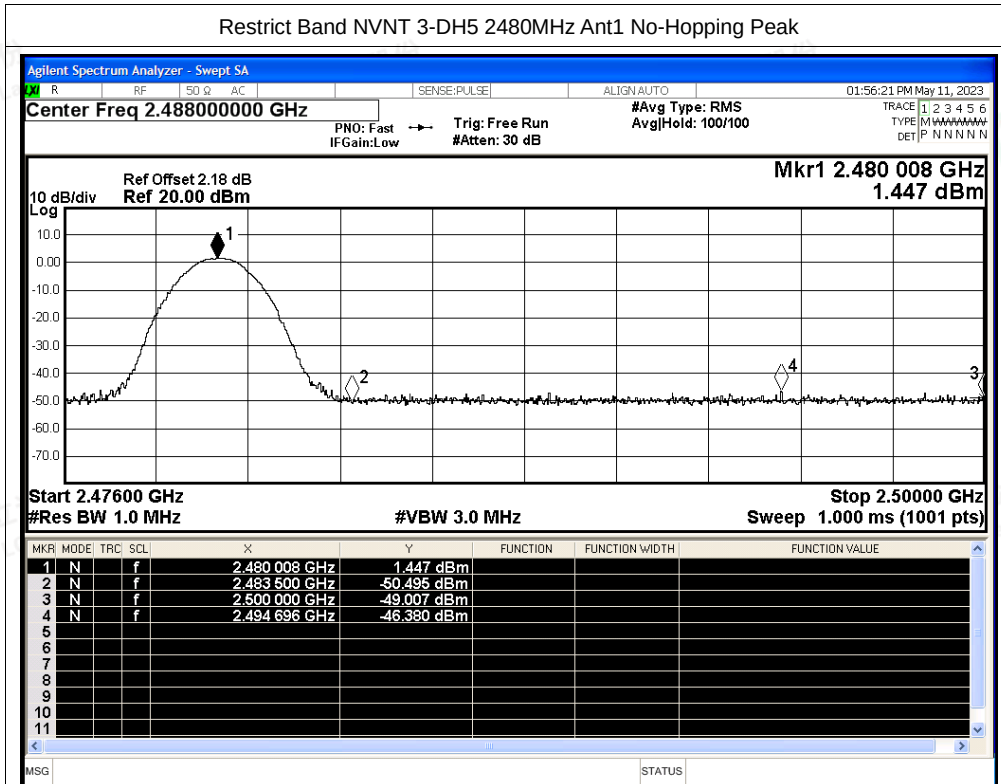


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