



## Appendix A

### RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Headphones

Test Model: HT-RQ1

#### 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

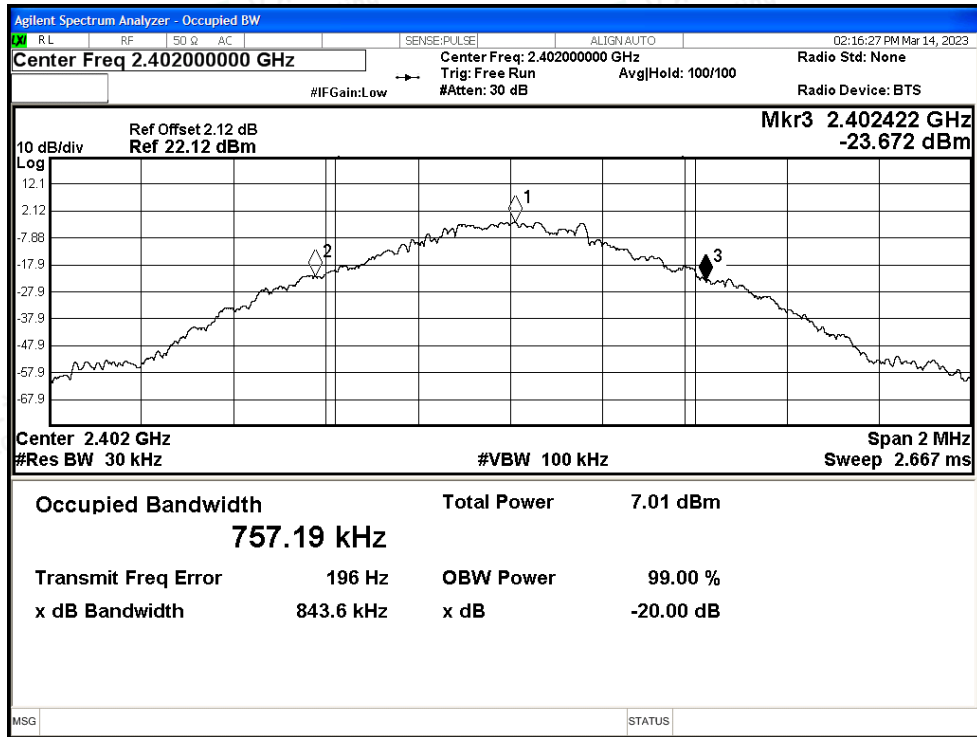
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.844	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.914	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.856	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.28	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.276	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.287	N/A	Pass



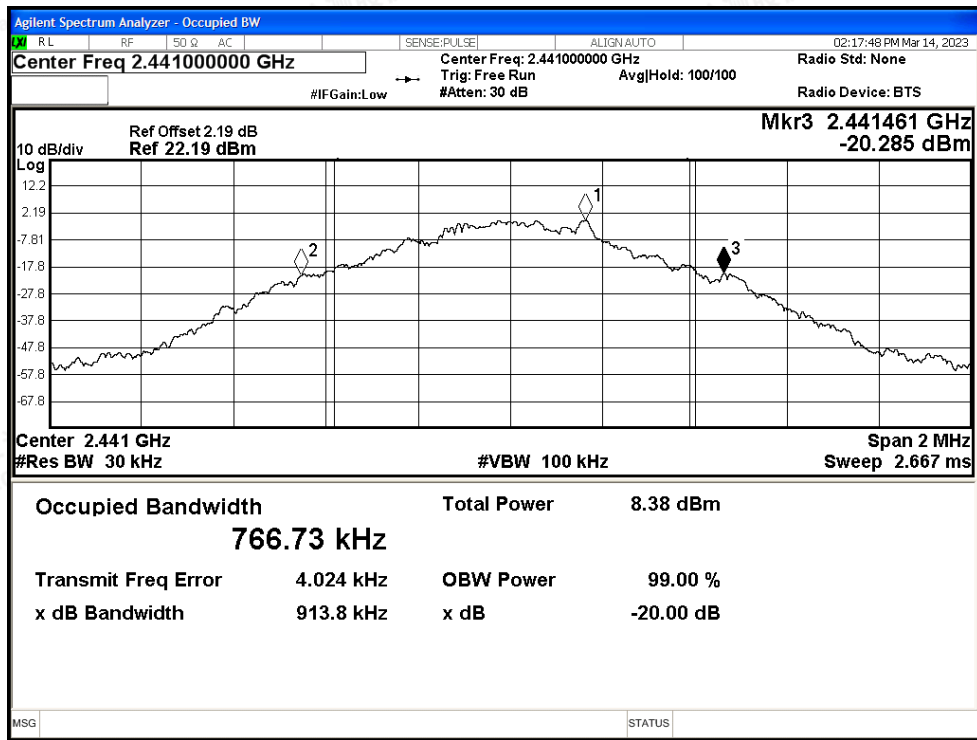


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

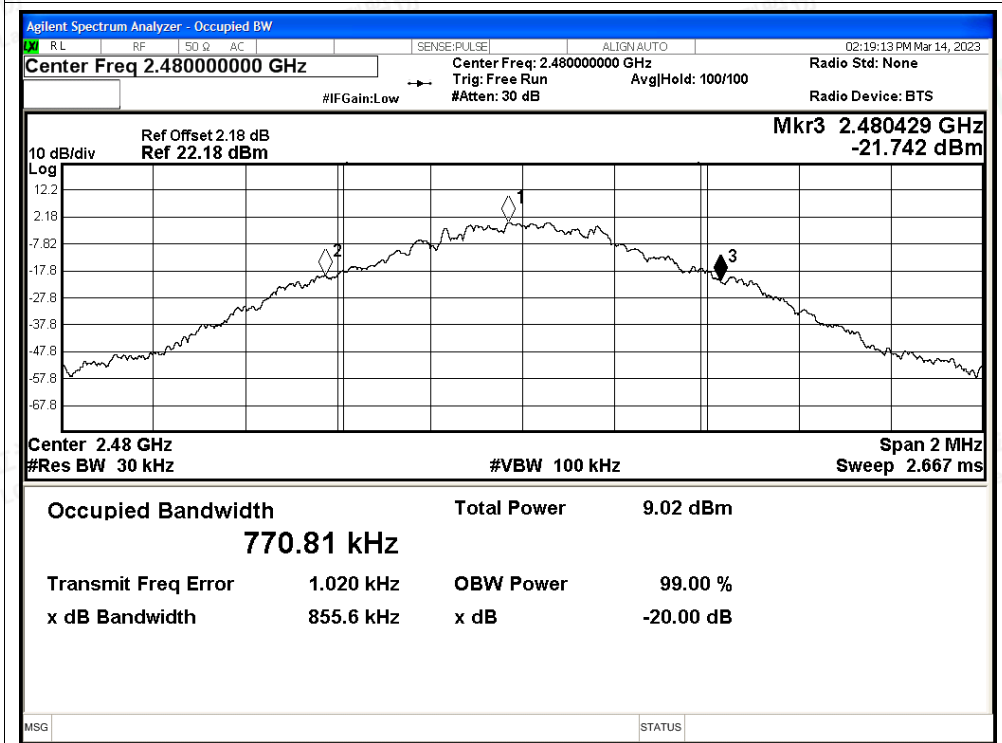


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

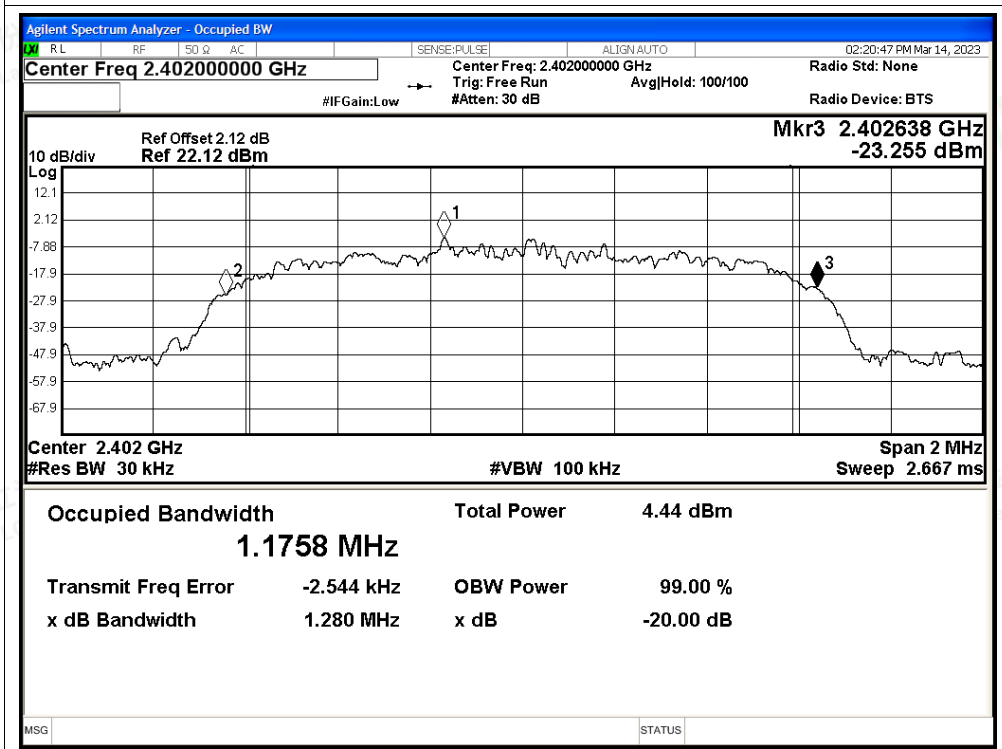




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

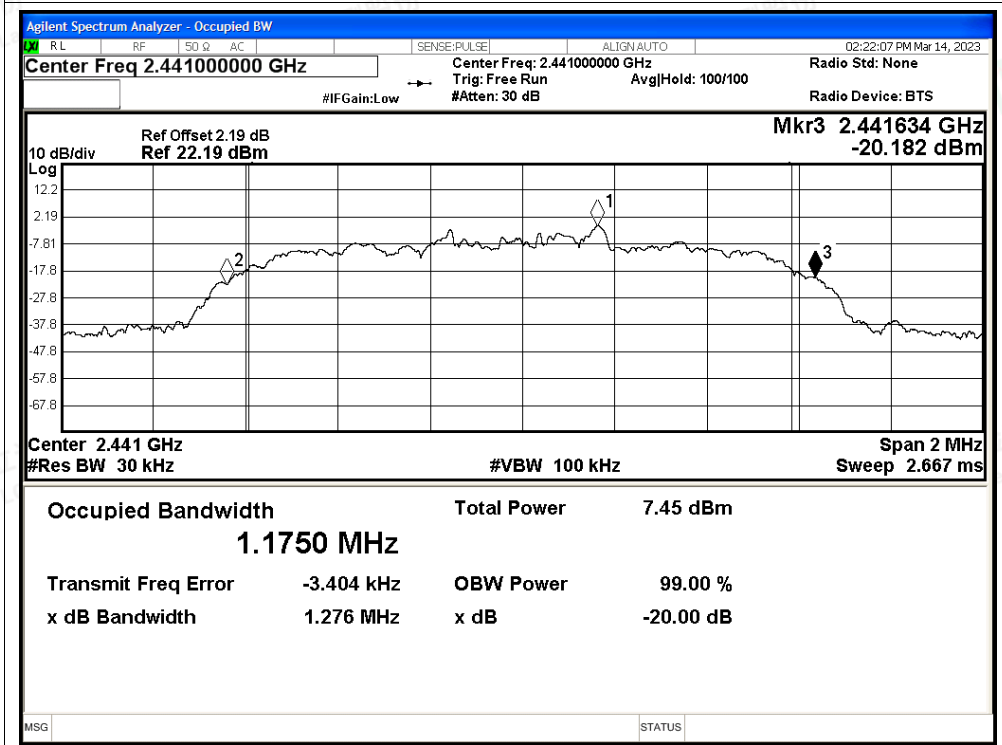


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

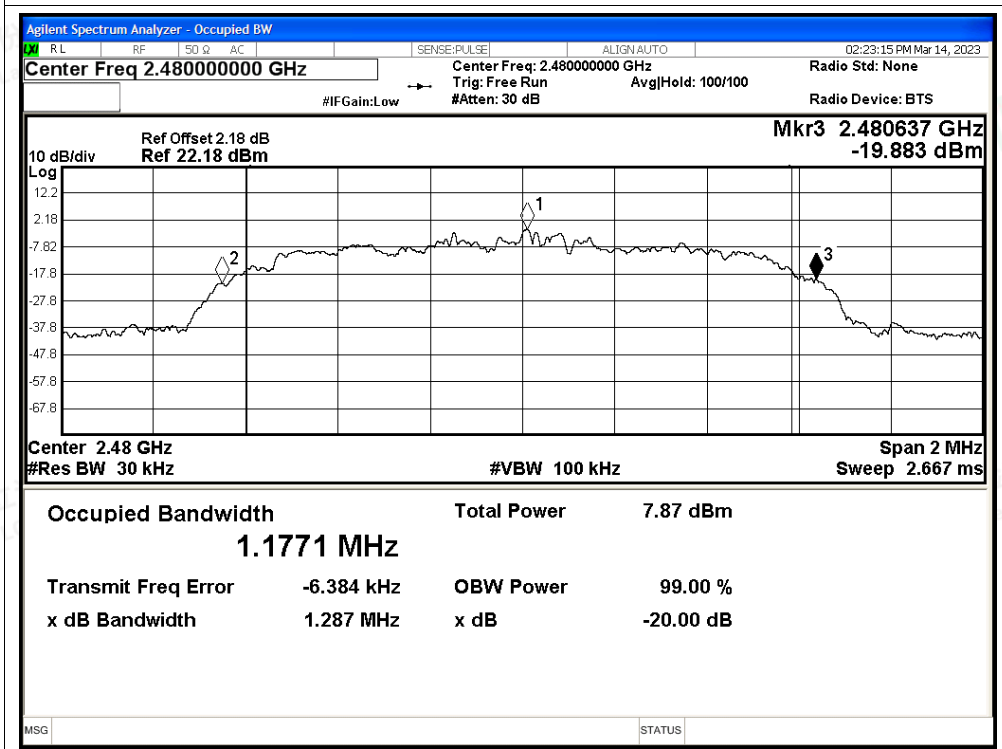




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





## A.2 Maximum Conducted Output Power

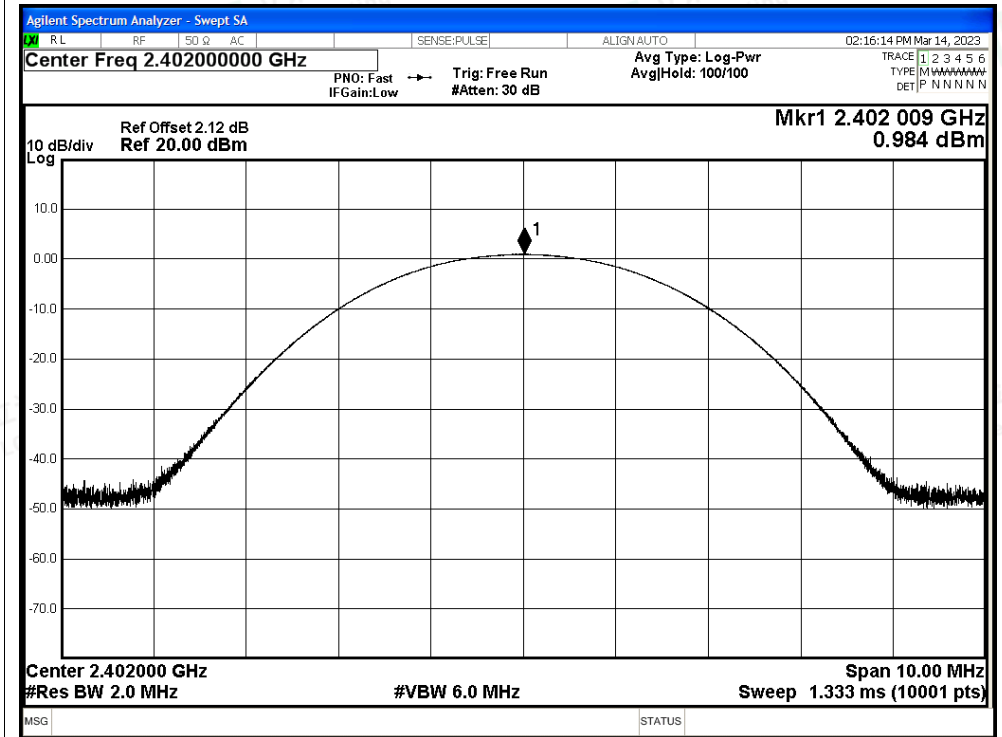
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.98	21	Pass
NVNT	1-DH5	2441	Ant1	2.39	21	Pass
NVNT	1-DH5	2480	Ant1	3.19	21	Pass
NVNT	2-DH5	2402	Ant1	0.21	21	Pass
NVNT	2-DH5	2441	Ant1	2.45	21	Pass
NVNT	2-DH5	2480	Ant1	3.18	21	Pass



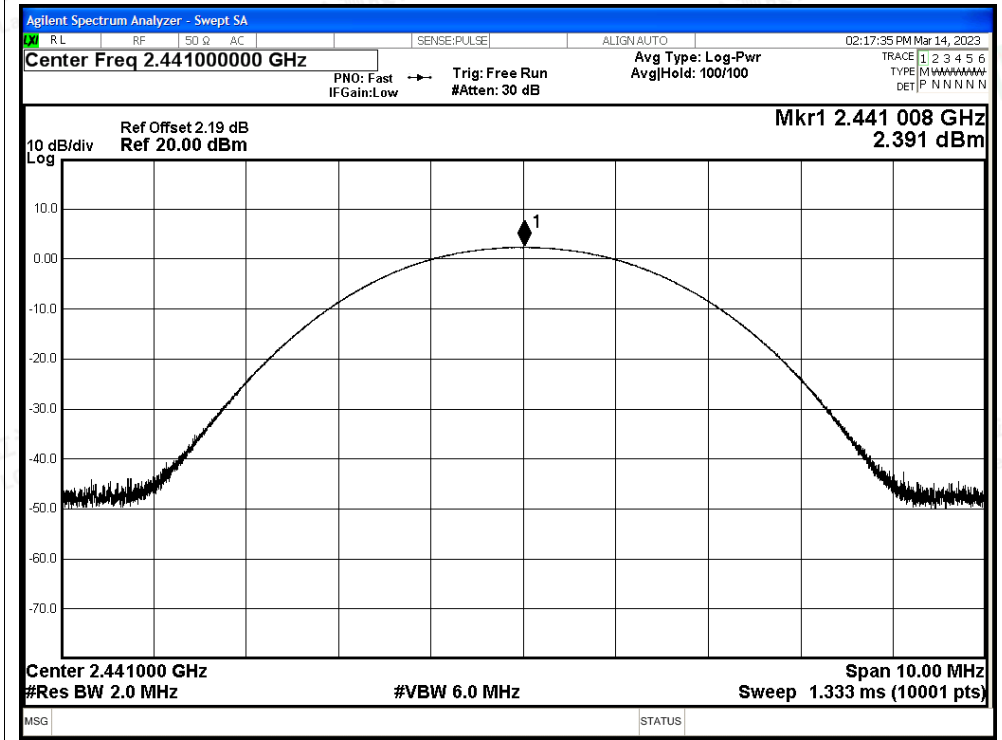


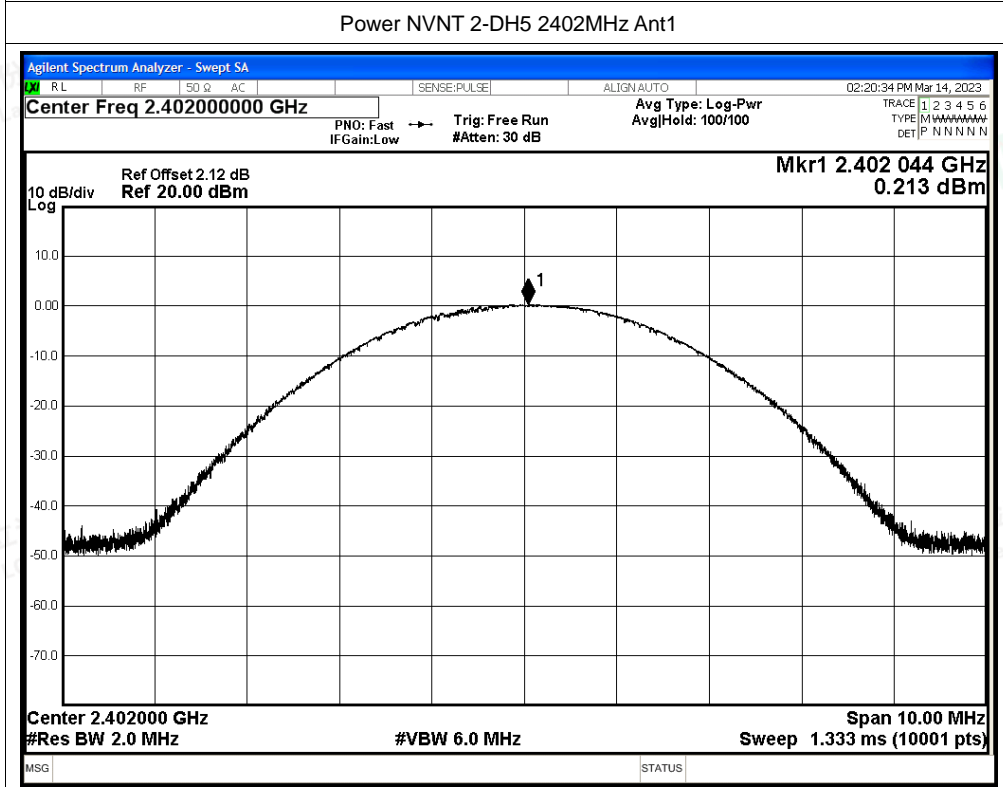
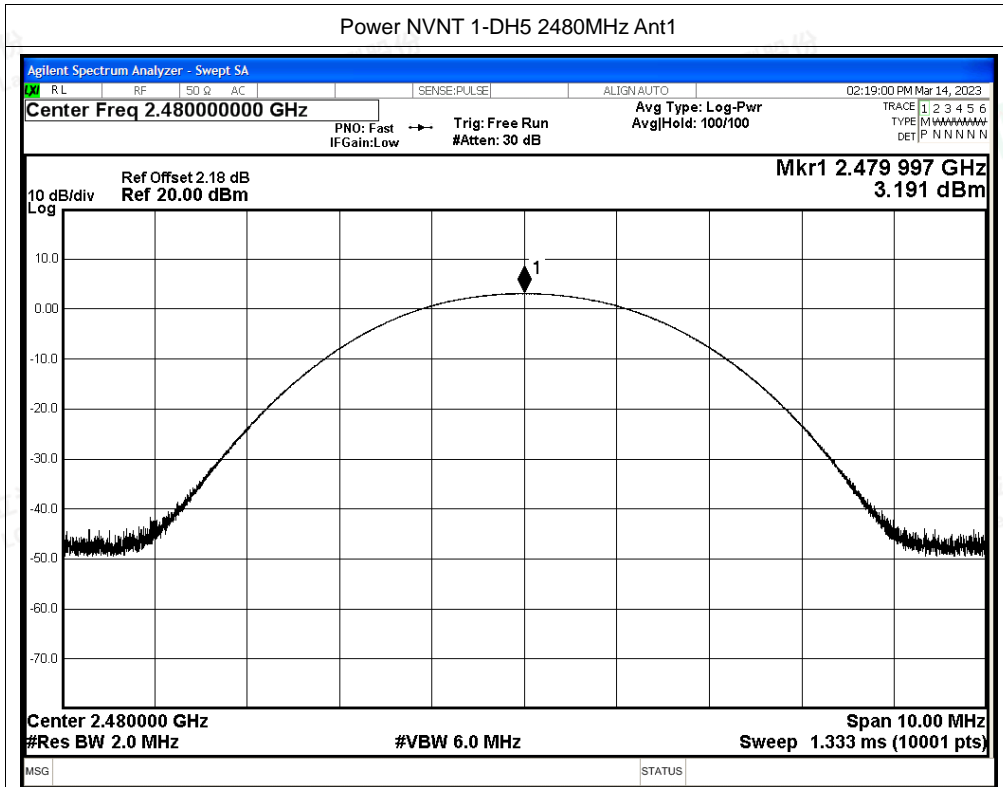
Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

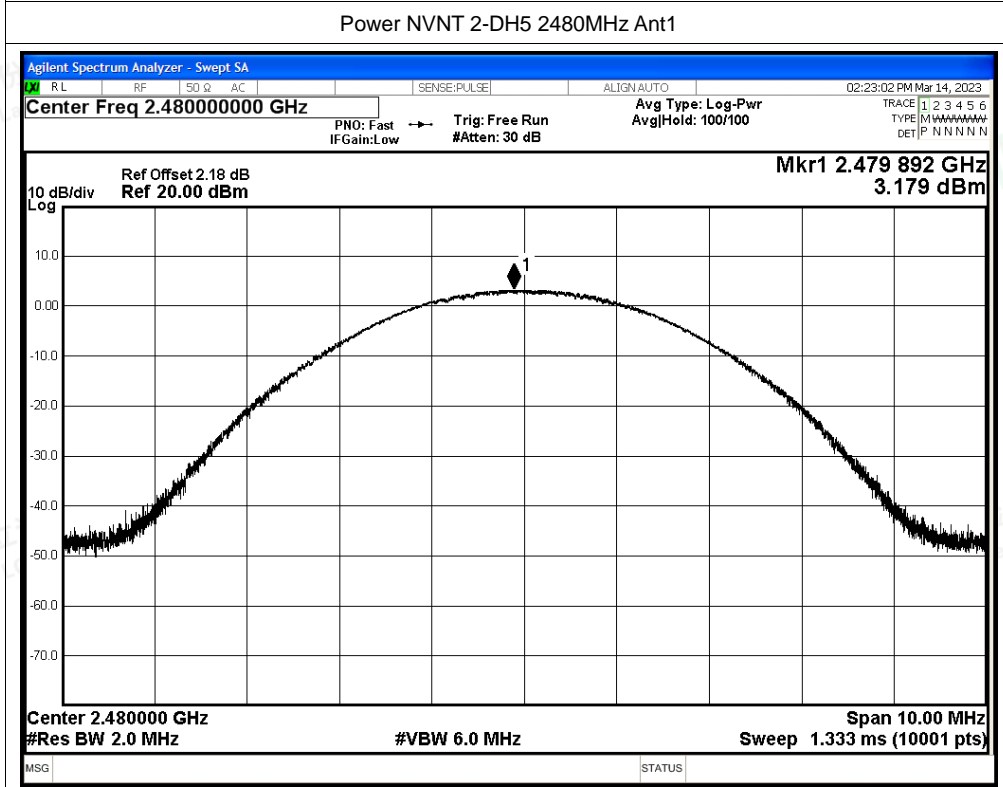
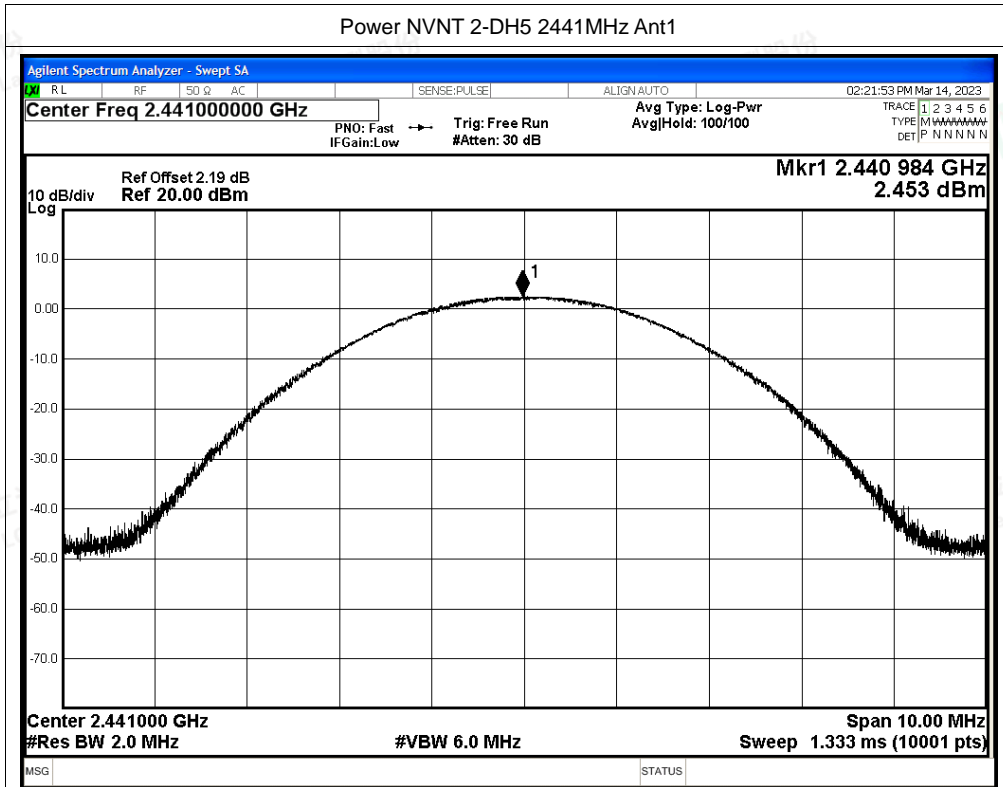


Power NVNT 1-DH5 2441MHz Ant1











### A.3 Carrier Frequencies Separation

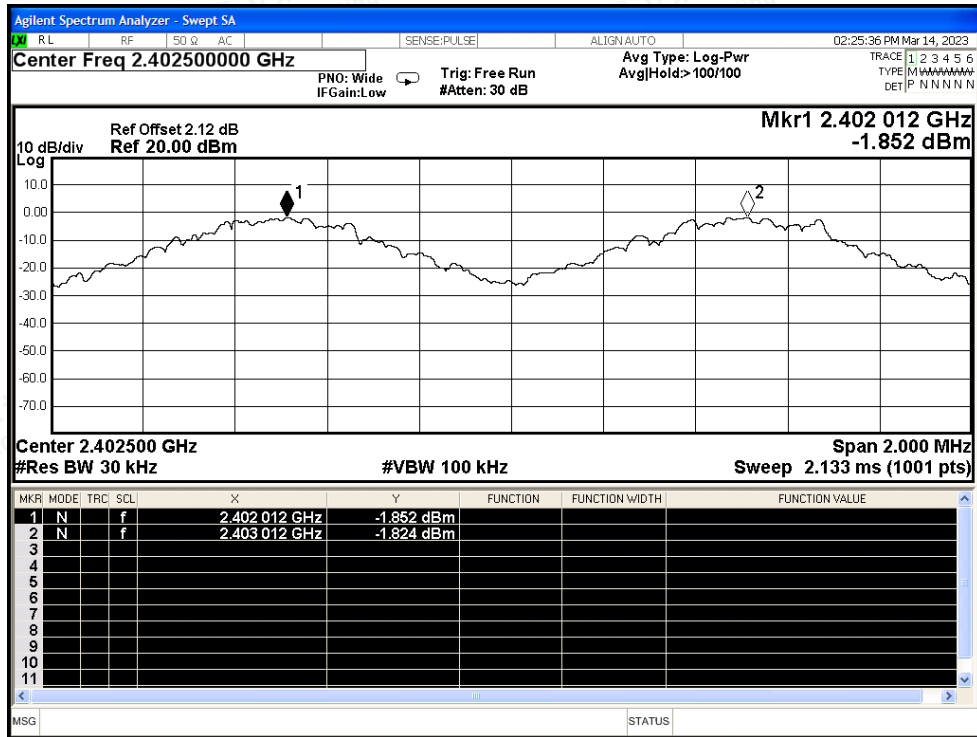
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.012	2403.012	1	0.609	Pass
NVNT	2-DH5	Ant1	2402.01	2403.154	1.144	0.858	Pass



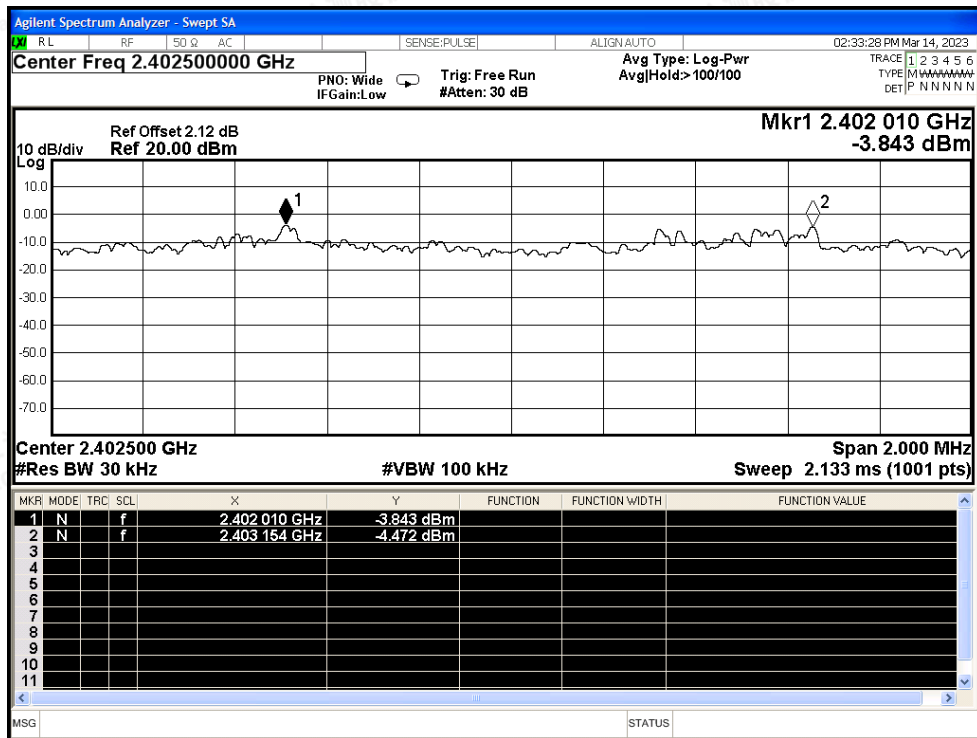


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1





### A.4 Dwell Time

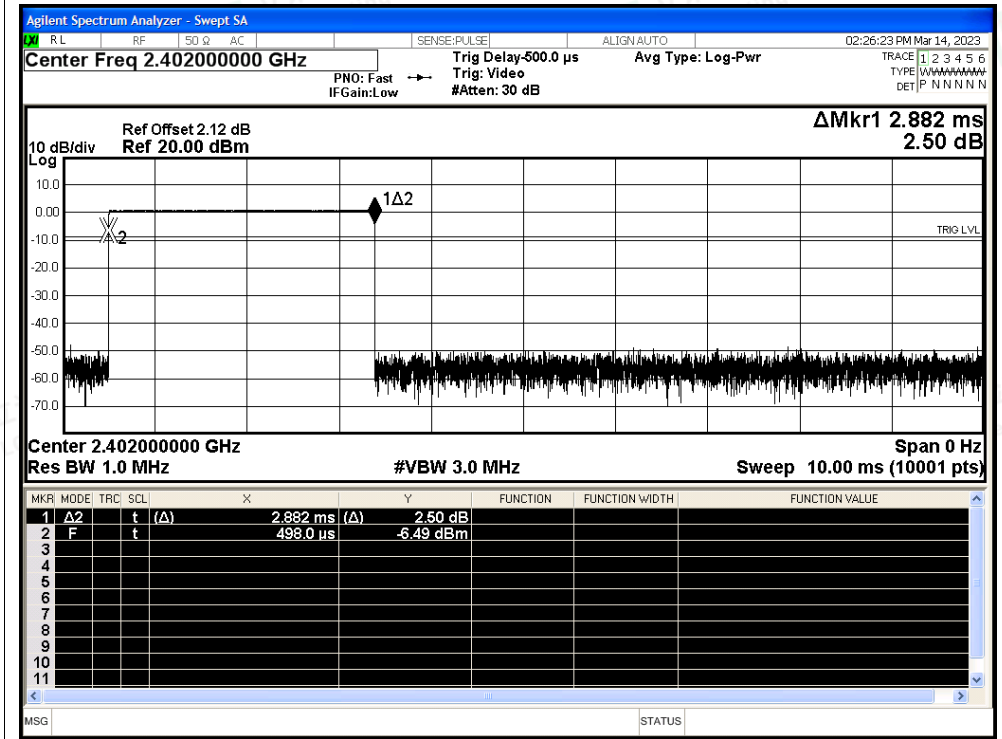
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	296.846	103	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.882	302.61	105	31600	400	Pass



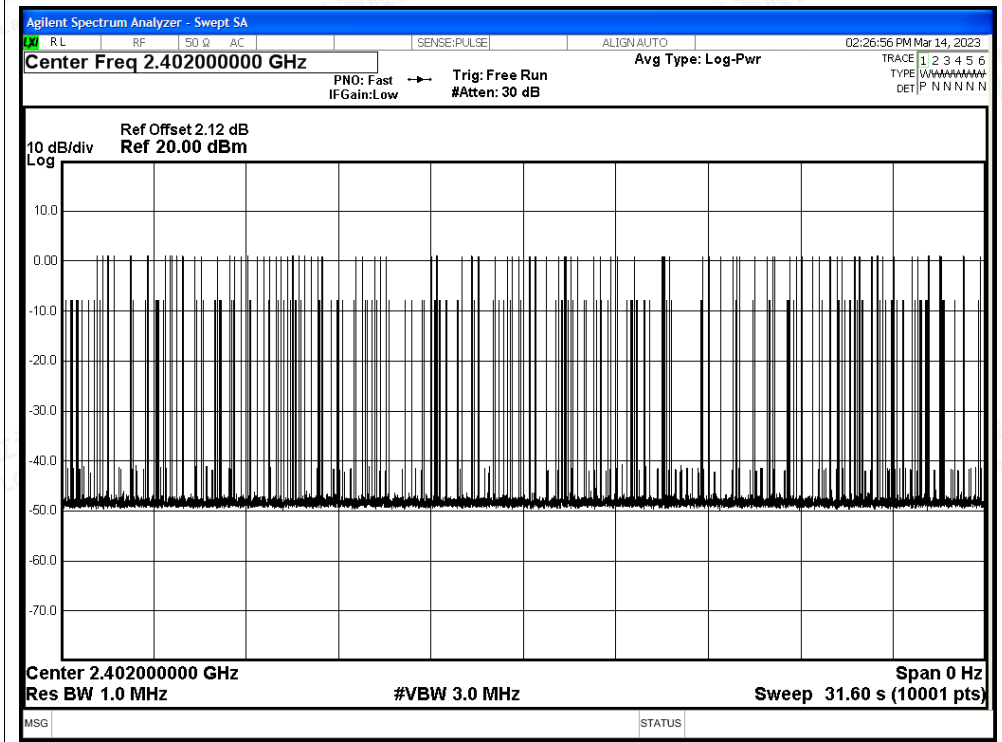


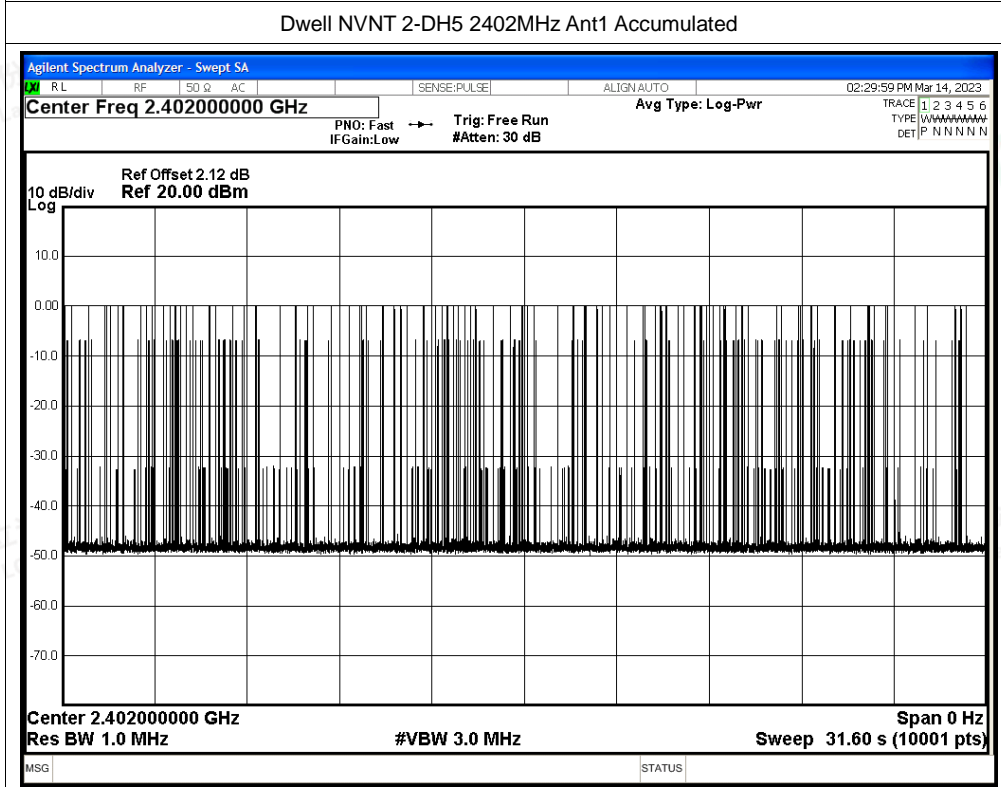
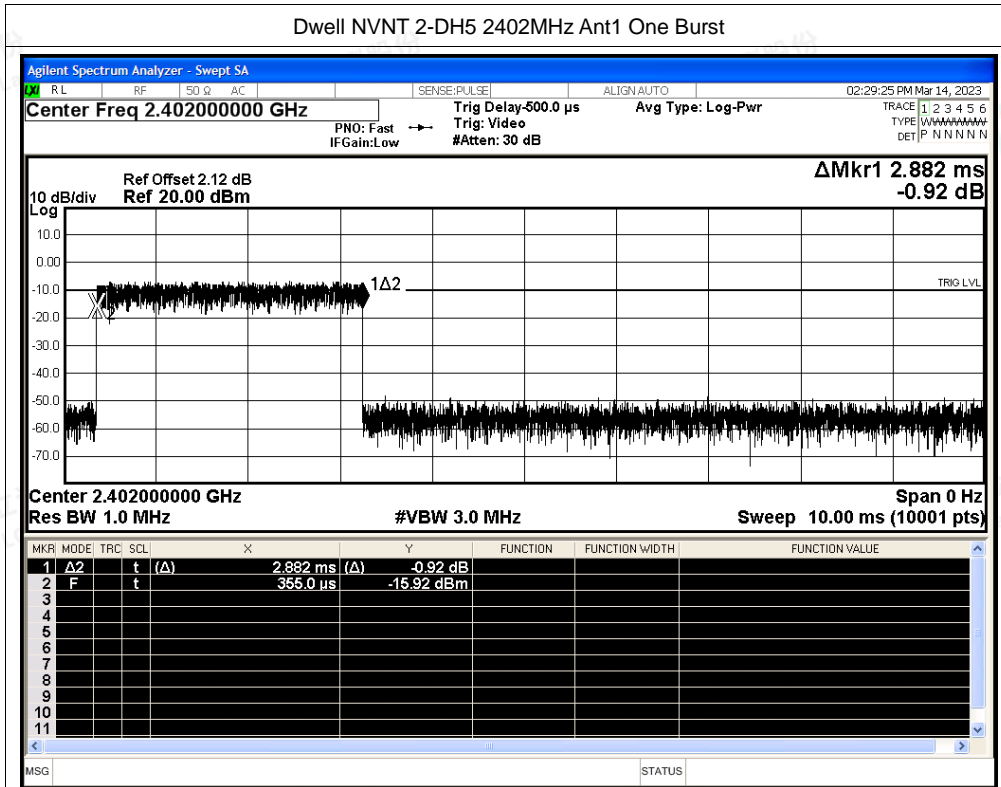
Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated







## A.5 Number of Hopping Channel

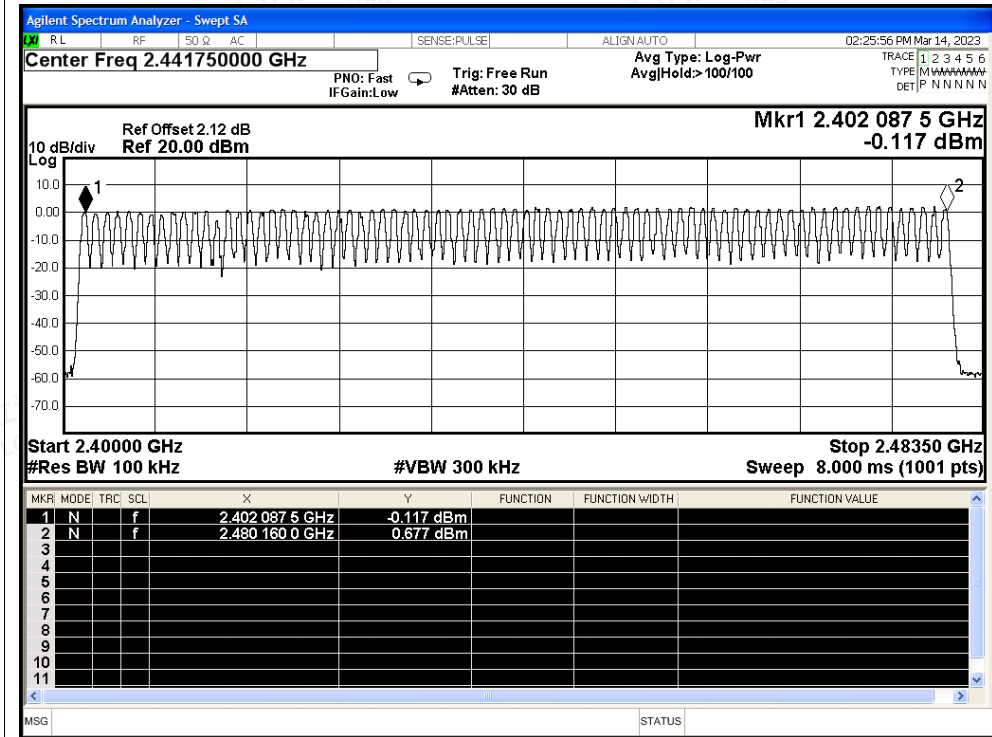
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass



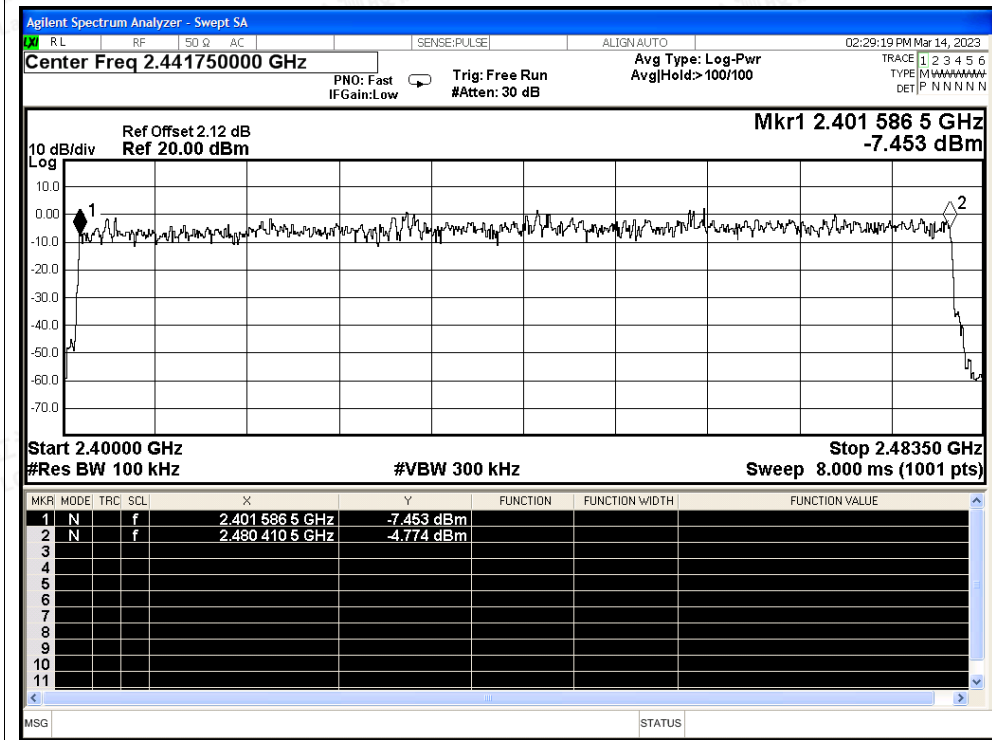


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







## A.6 Band Edge

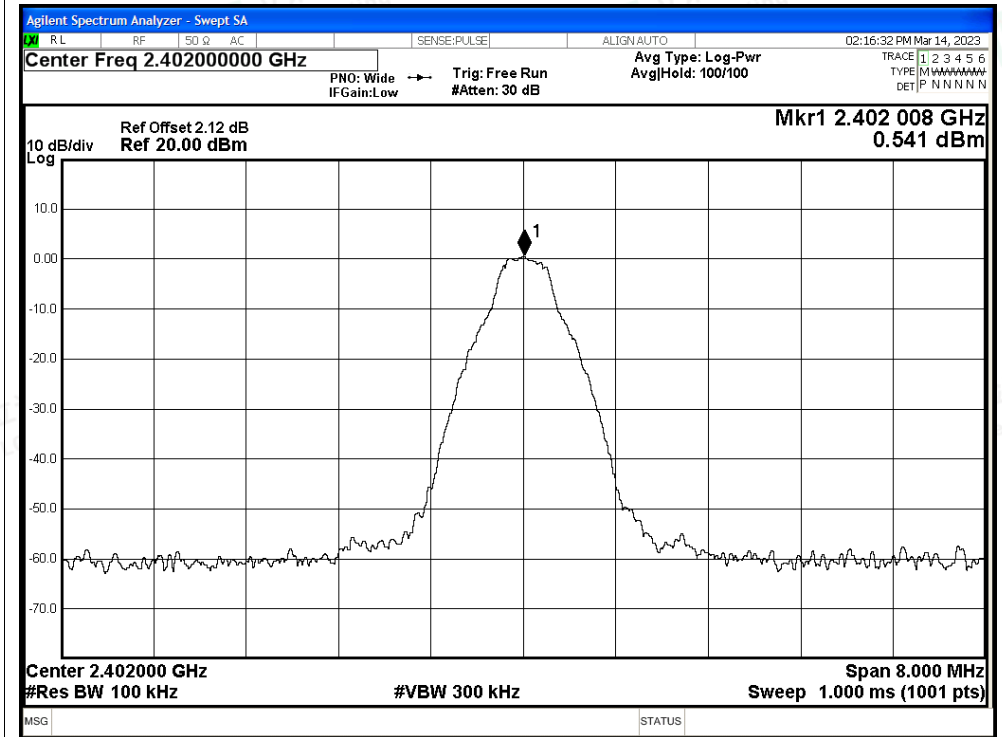
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.55	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-59.07	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-56.21	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-59.26	-20	Pass



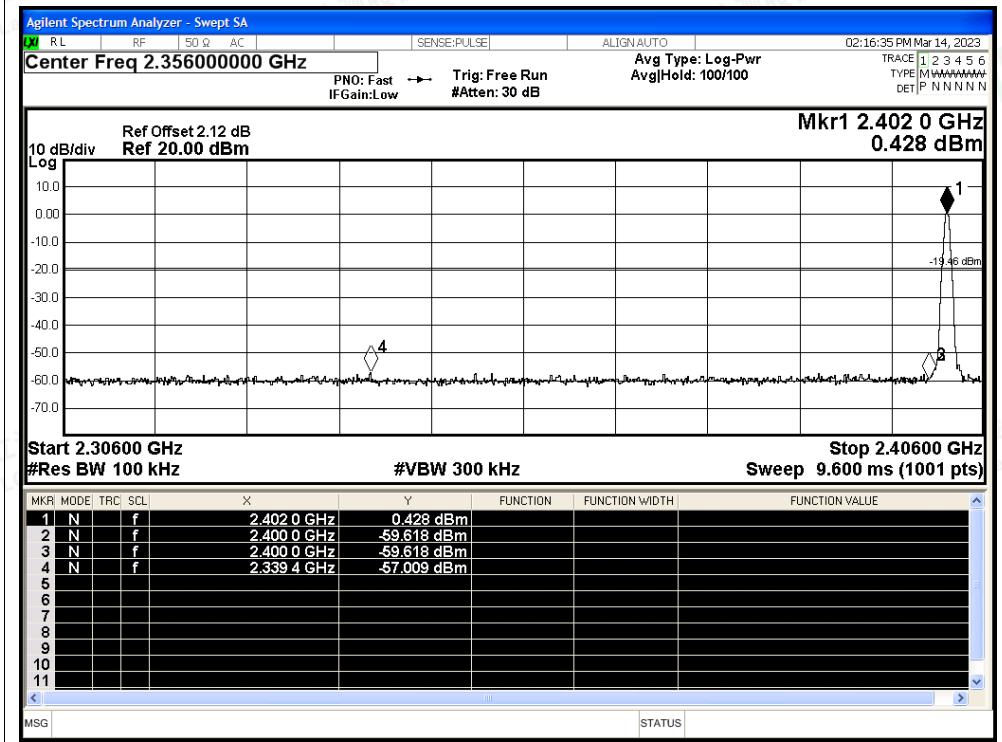


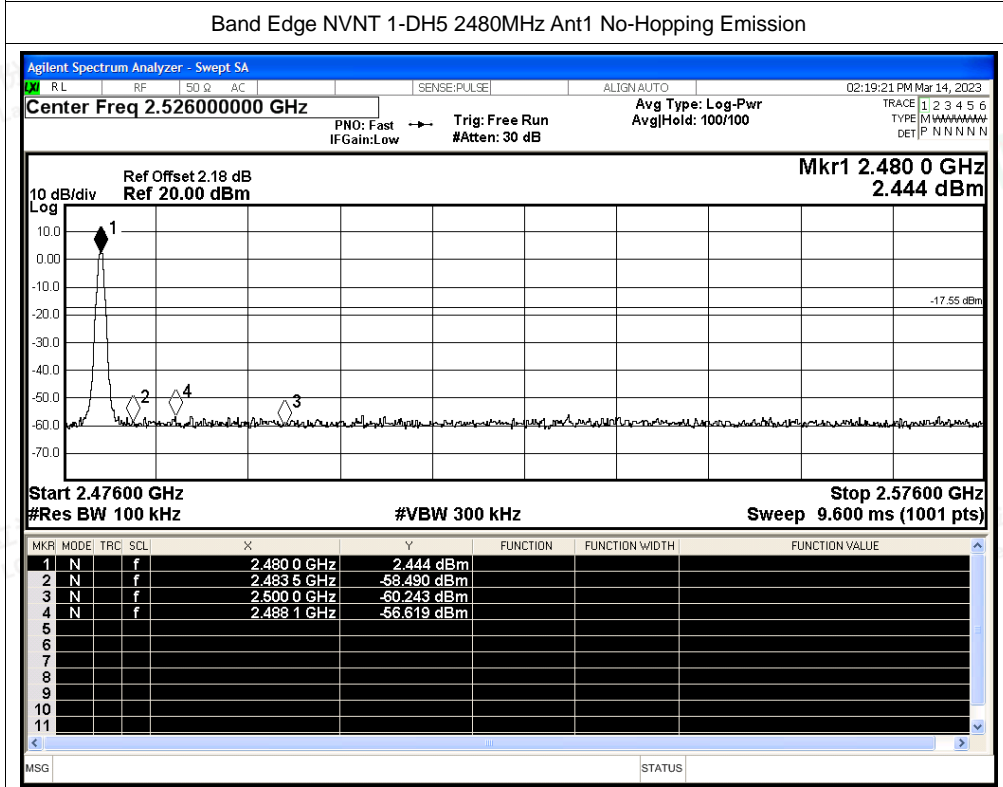
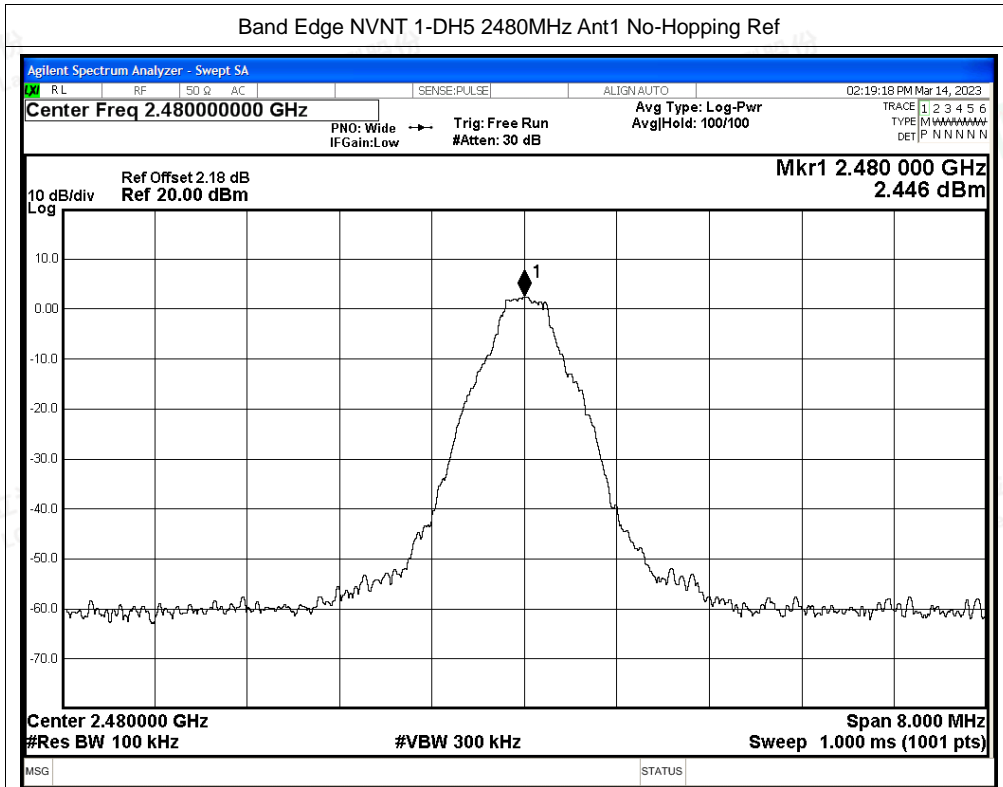
Test Graphs

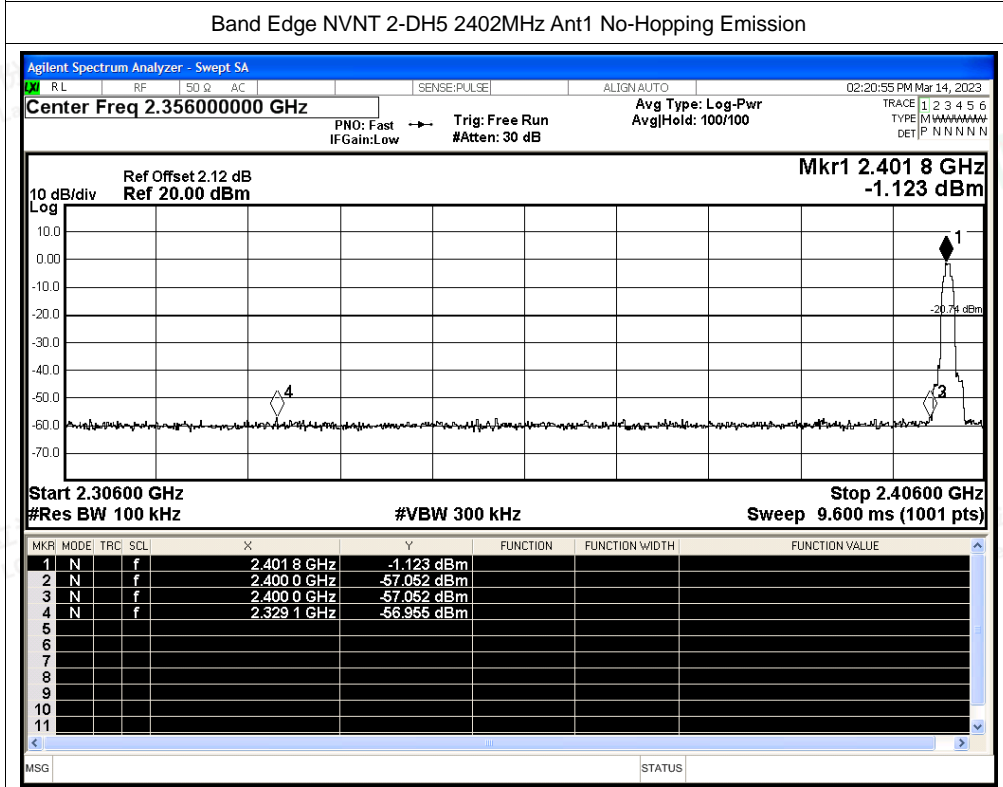
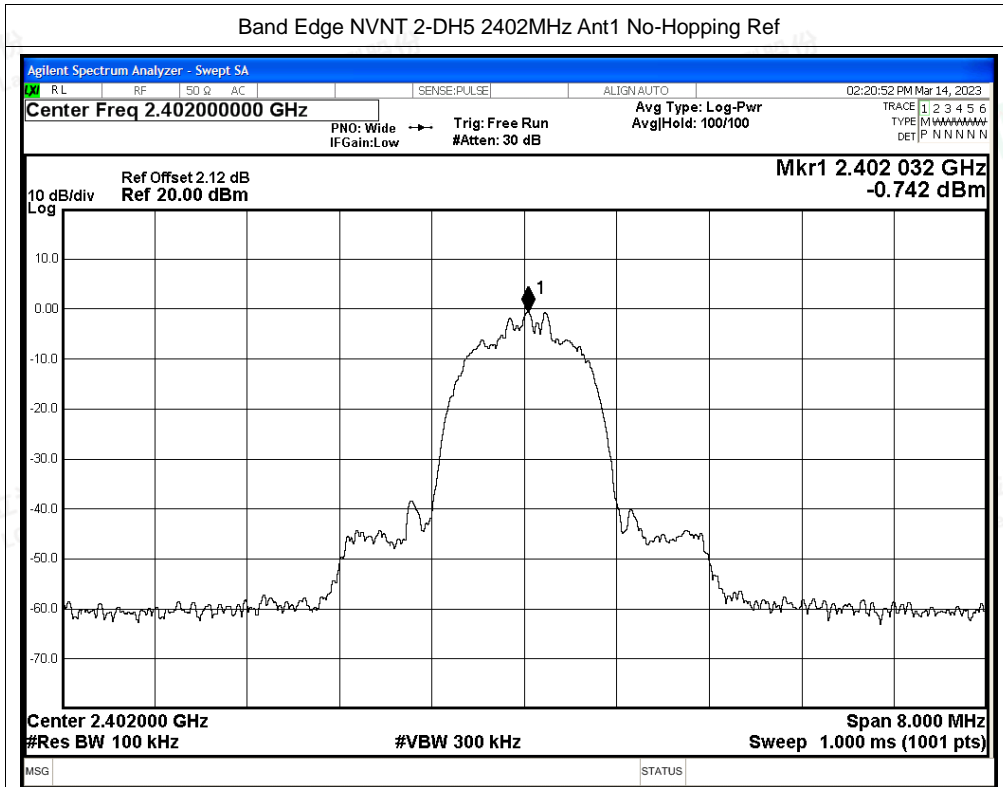
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

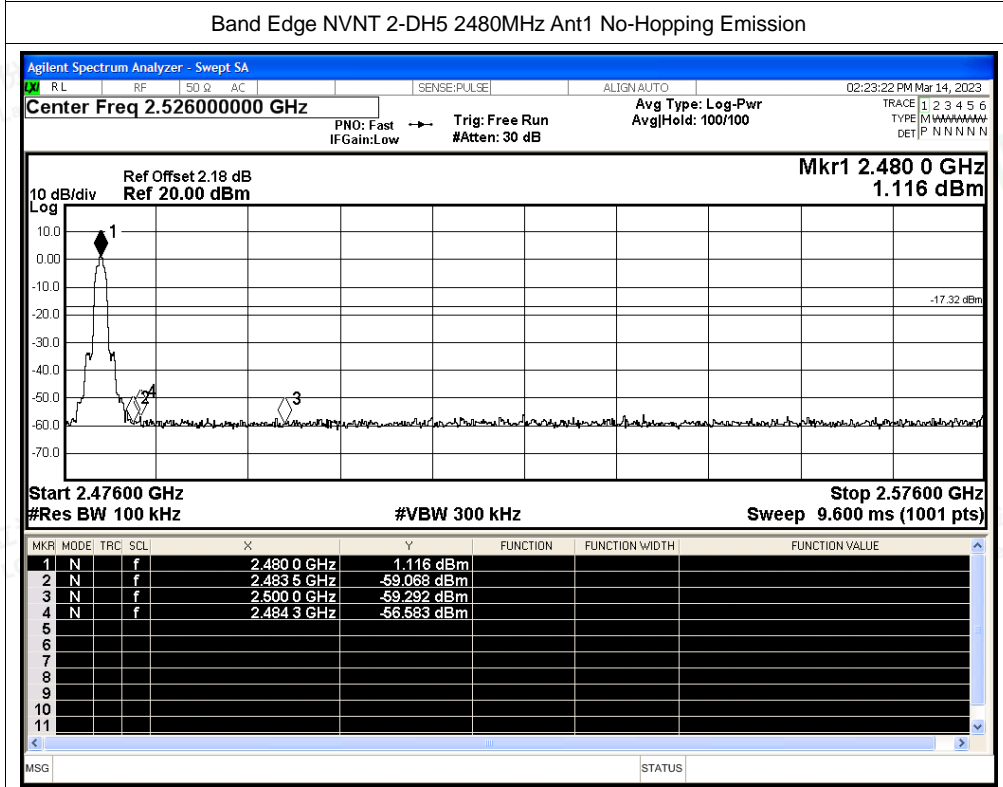
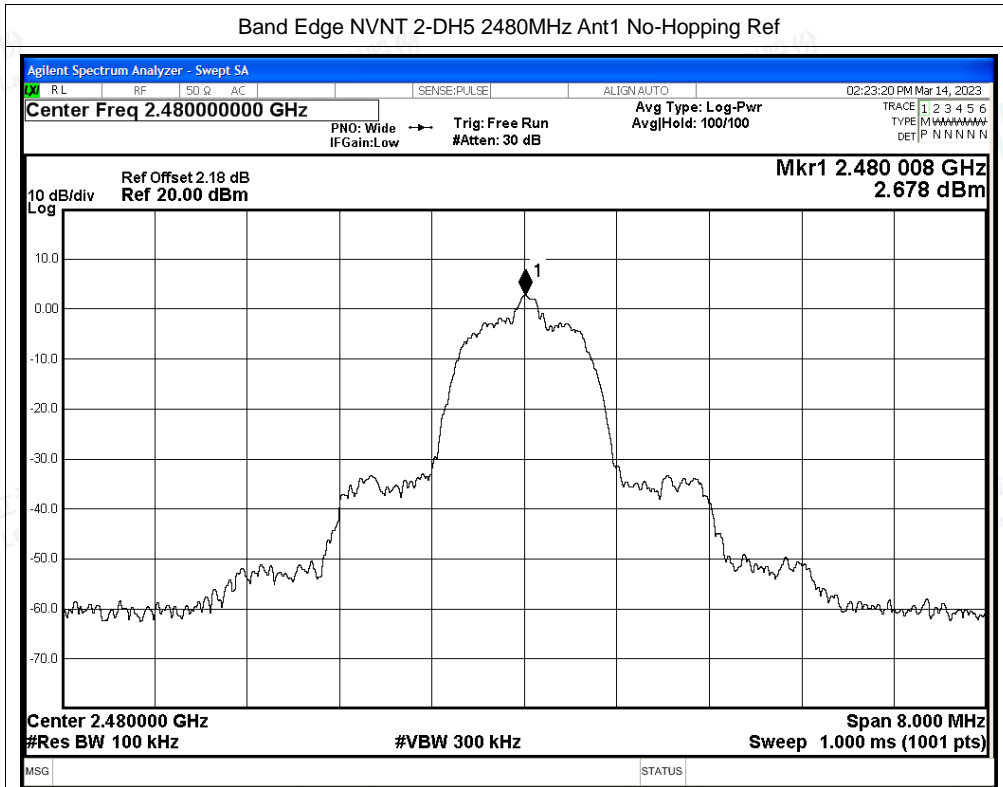


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission











### (Hopping)

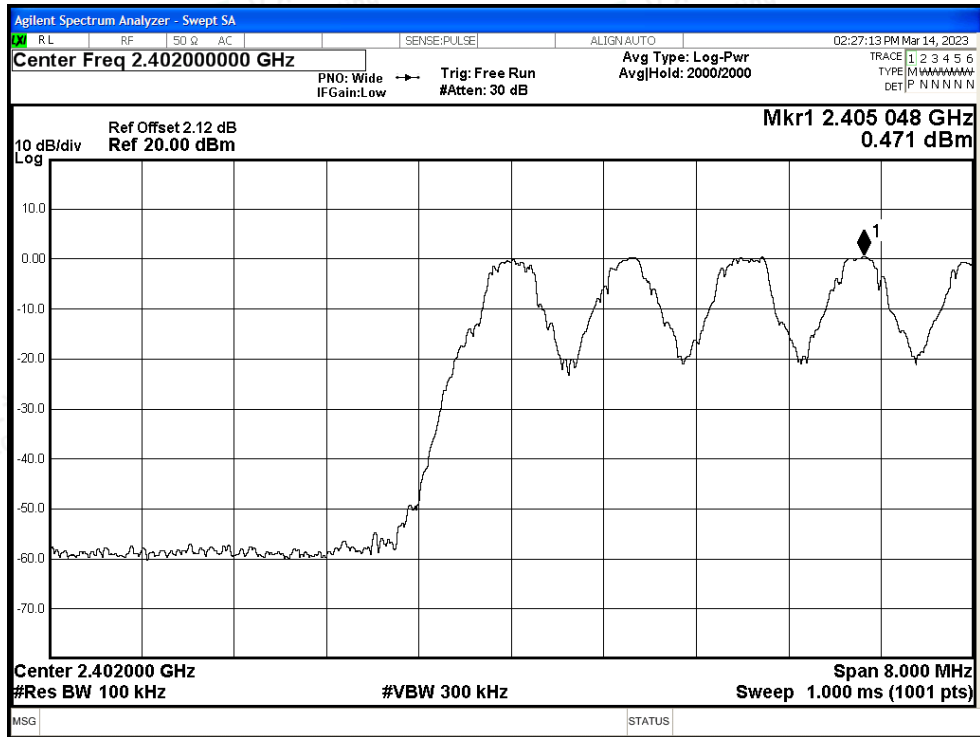
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.27	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.23	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.27	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-57.69	-20	Pass



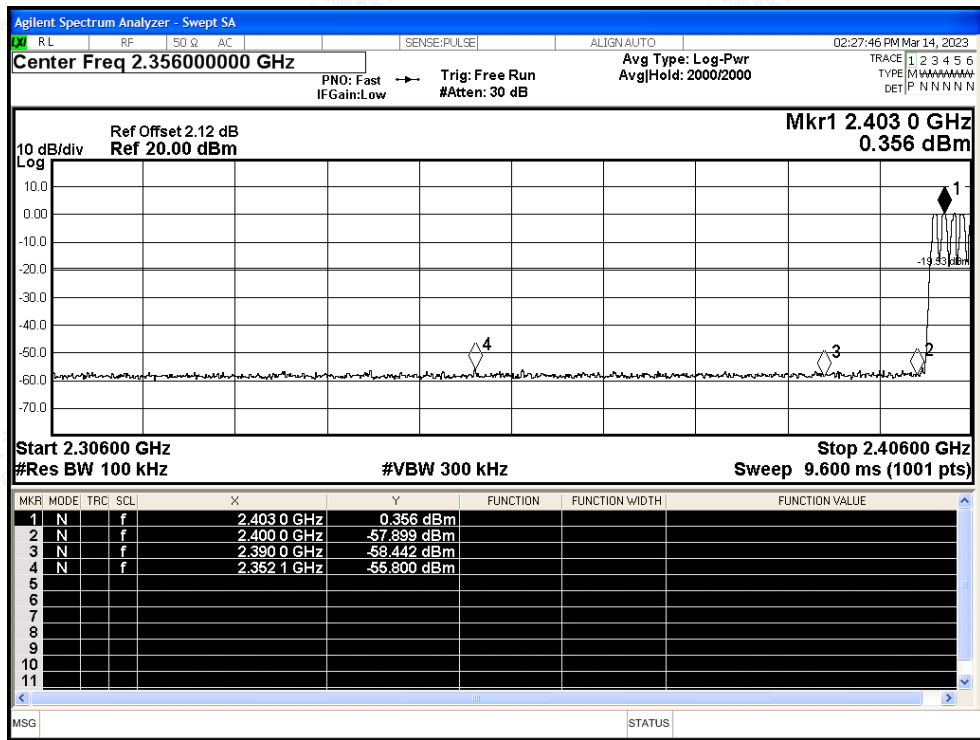


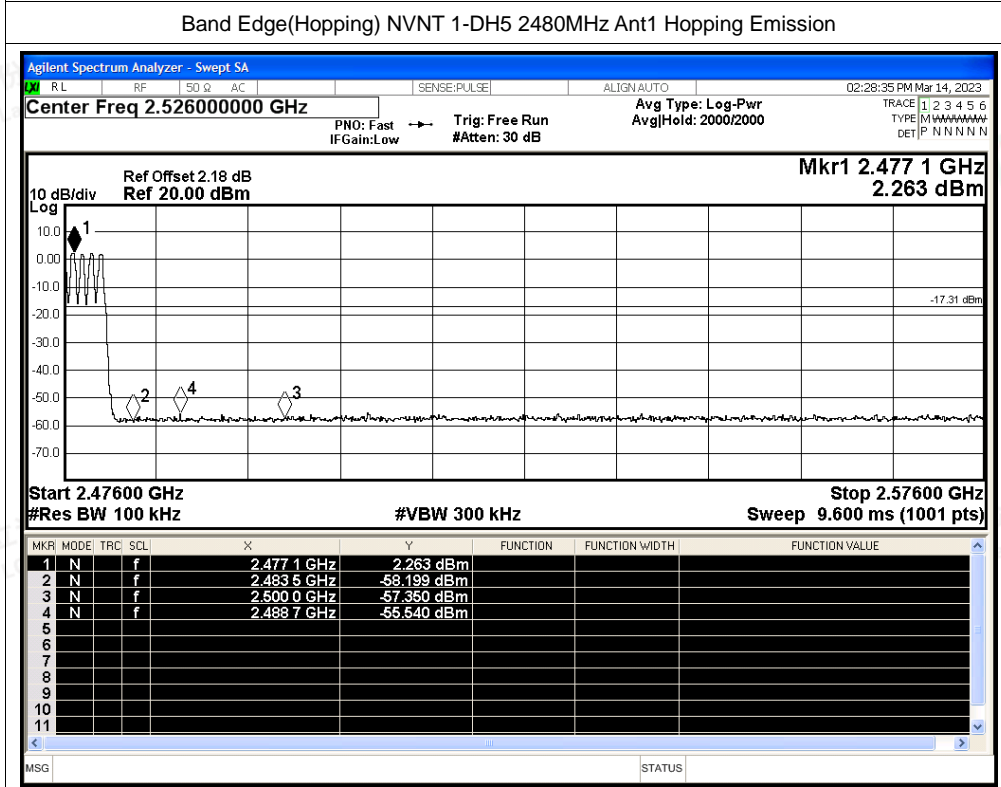
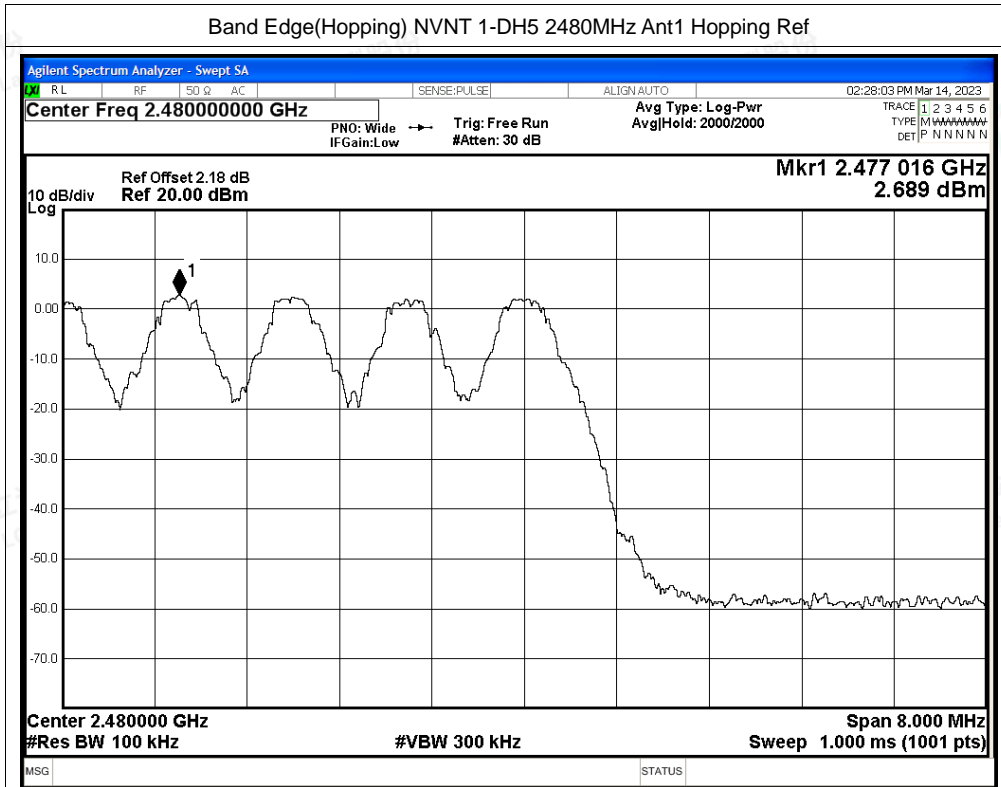
Test Graphs

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

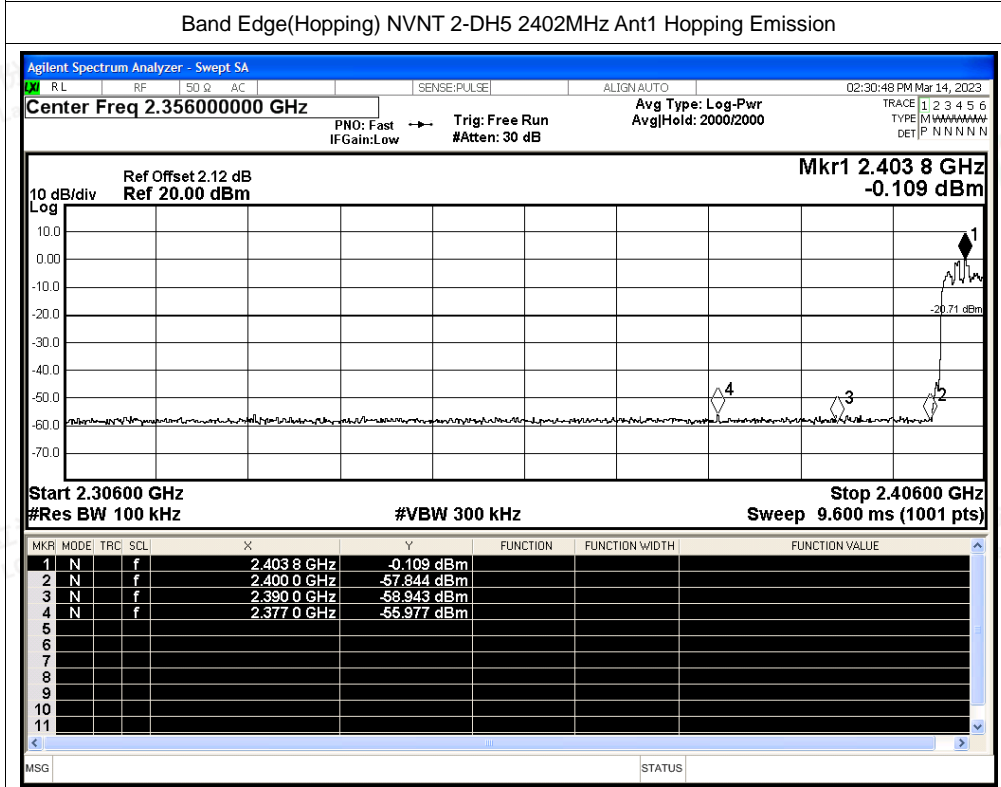
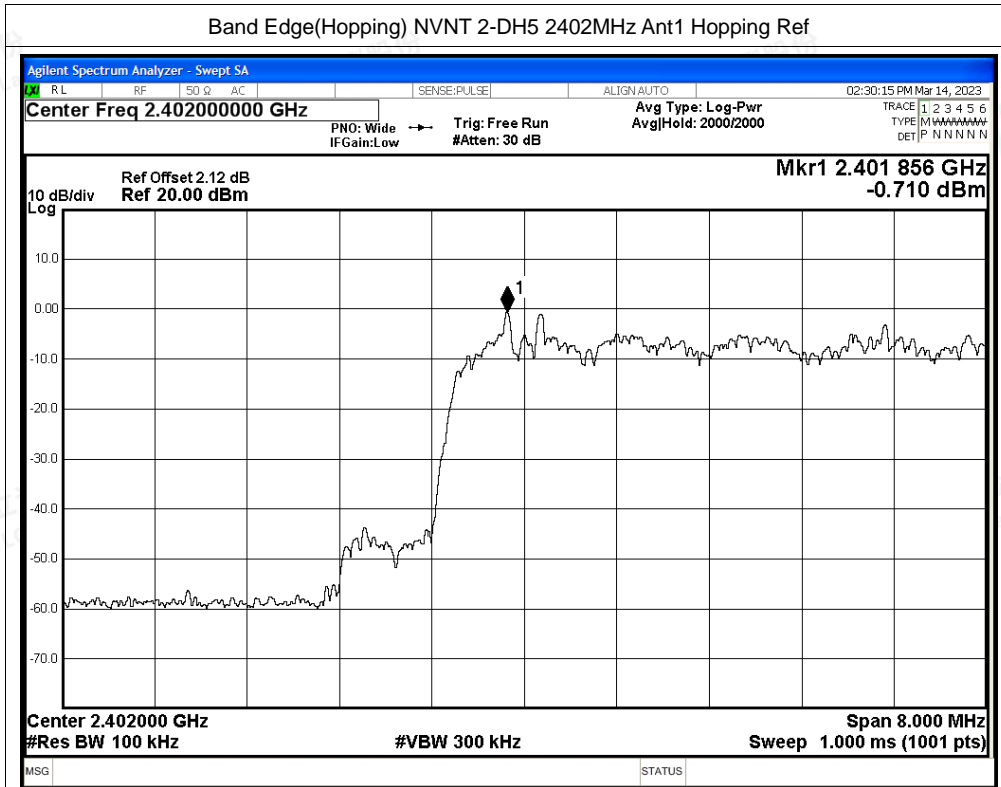


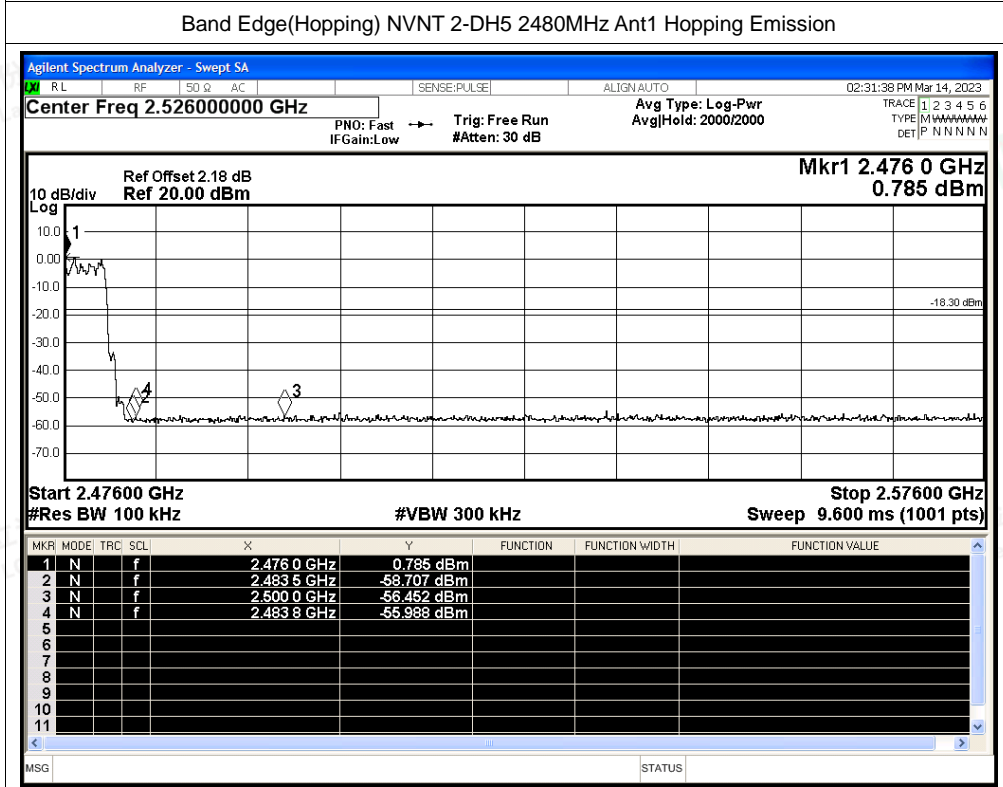
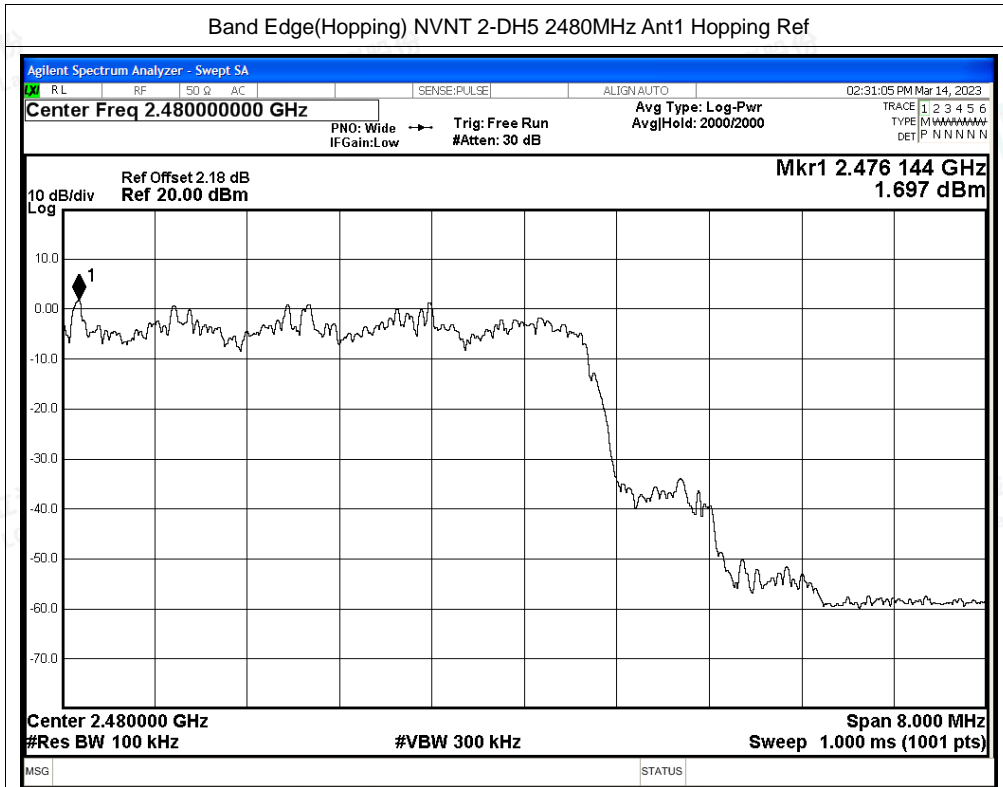
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission













## A.7 Conducted RF Spurious Emission

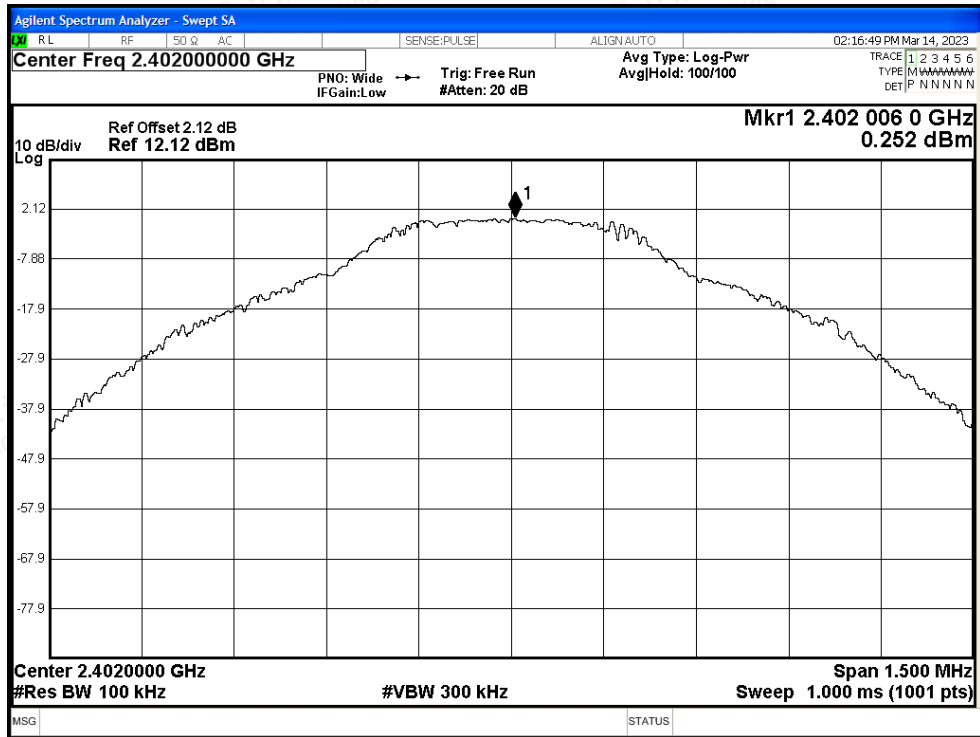
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.35	-20	Pass
NVNT	1-DH5	2441	Ant1	-57.58	-20	Pass
NVNT	1-DH5	2480	Ant1	-58.16	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.44	-20	Pass
NVNT	2-DH5	2441	Ant1	-56.39	-20	Pass
NVNT	2-DH5	2480	Ant1	-57.96	-20	Pass



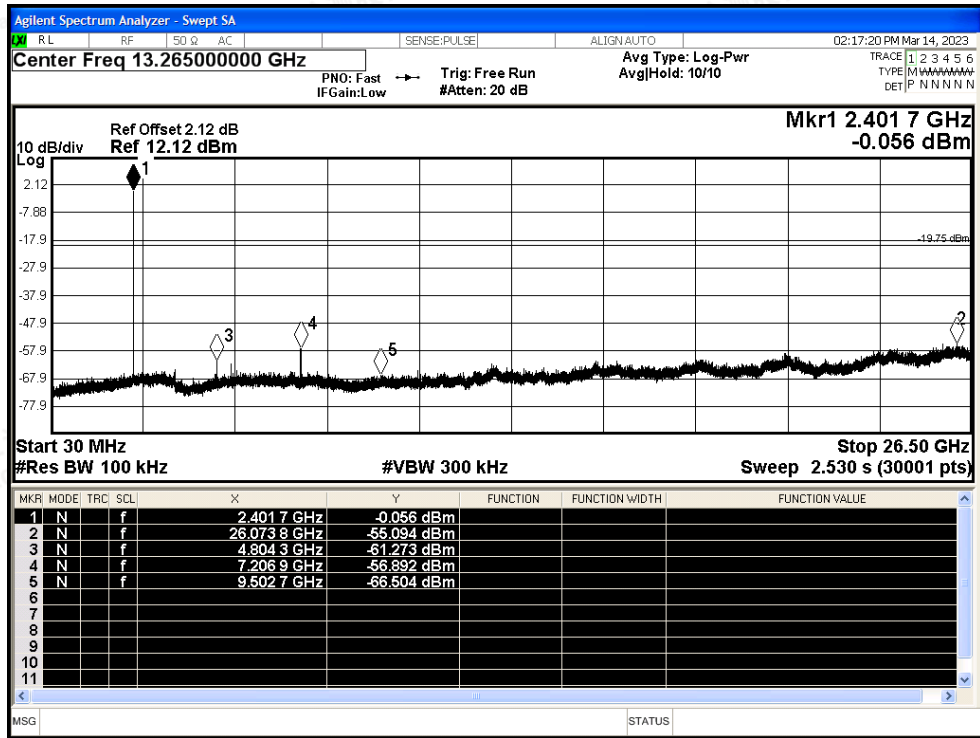


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

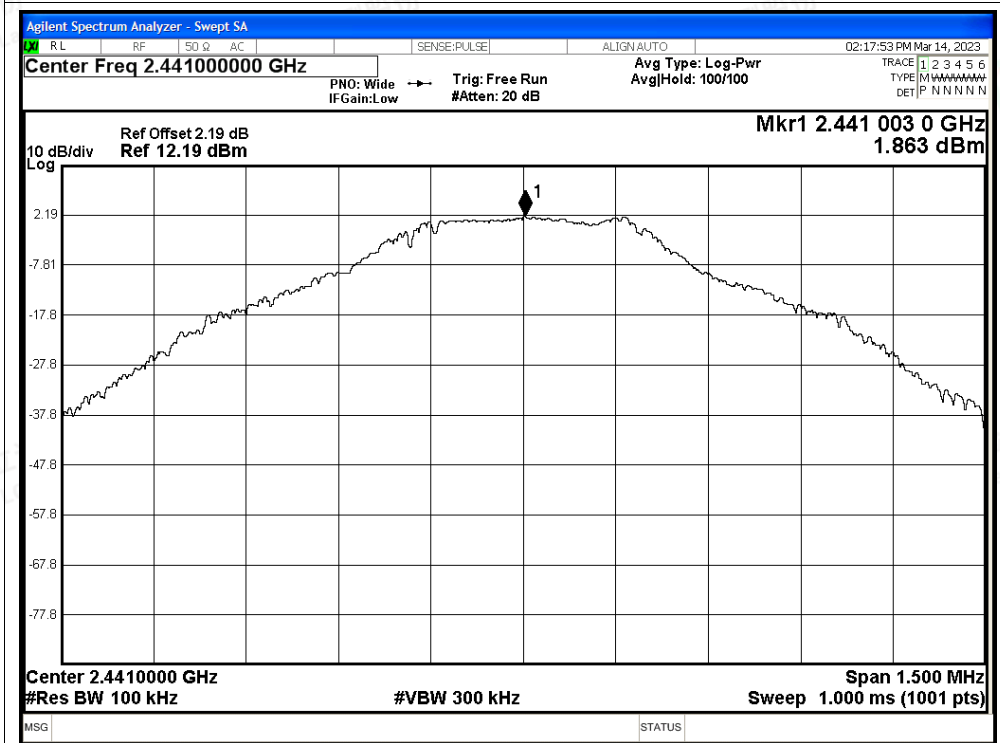


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

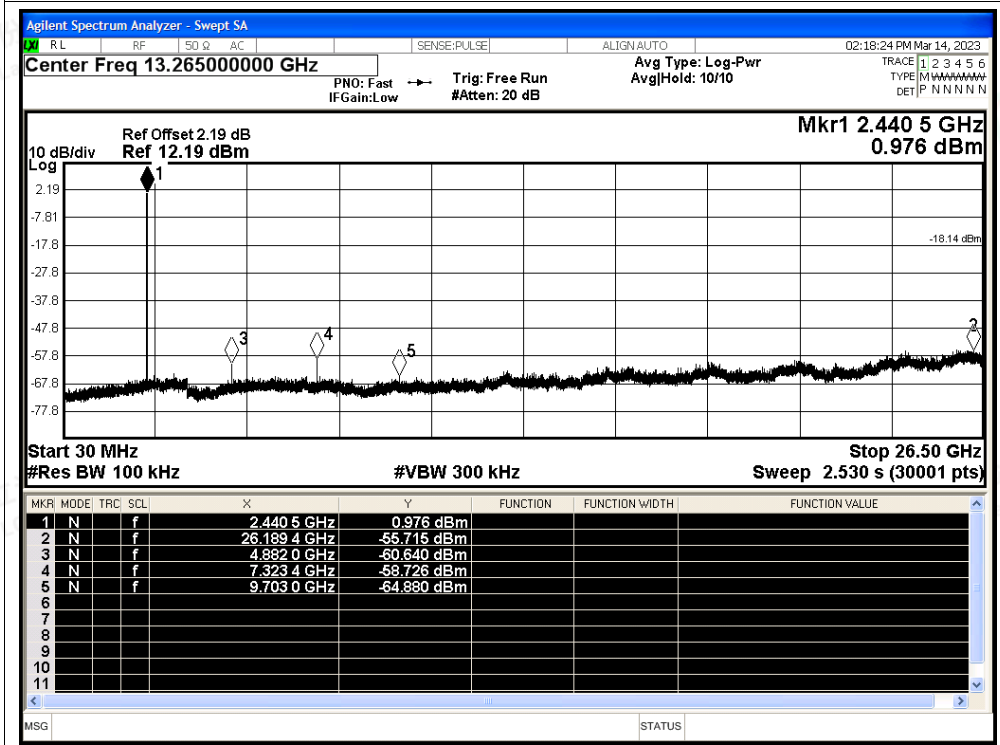




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

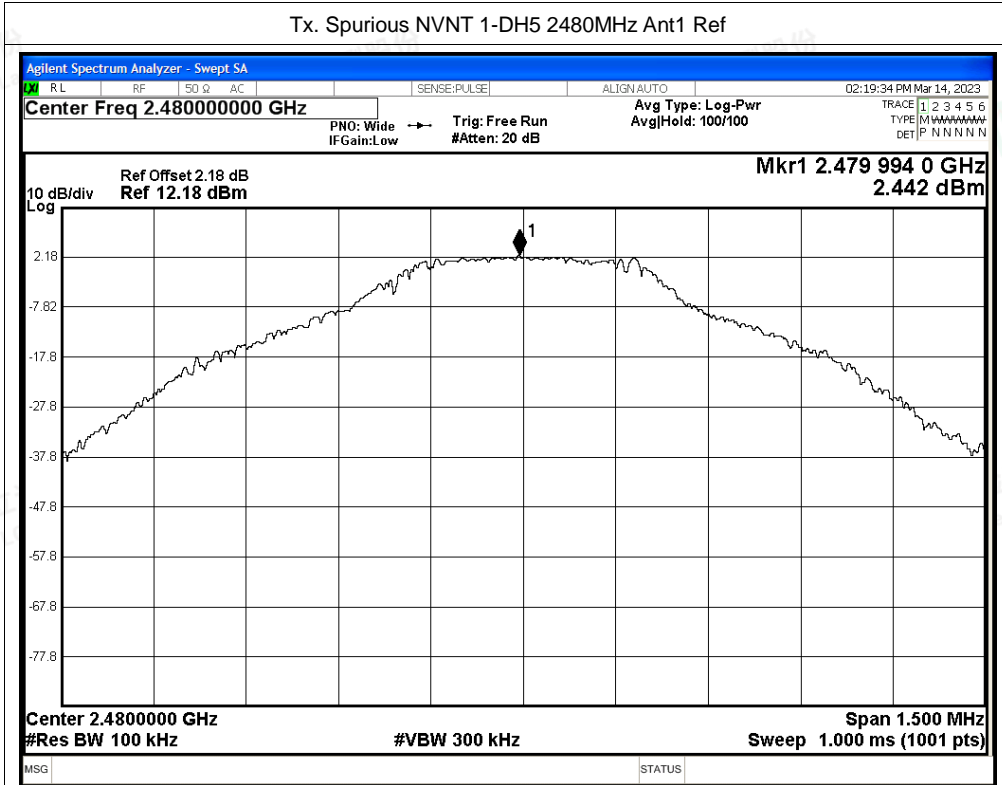


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

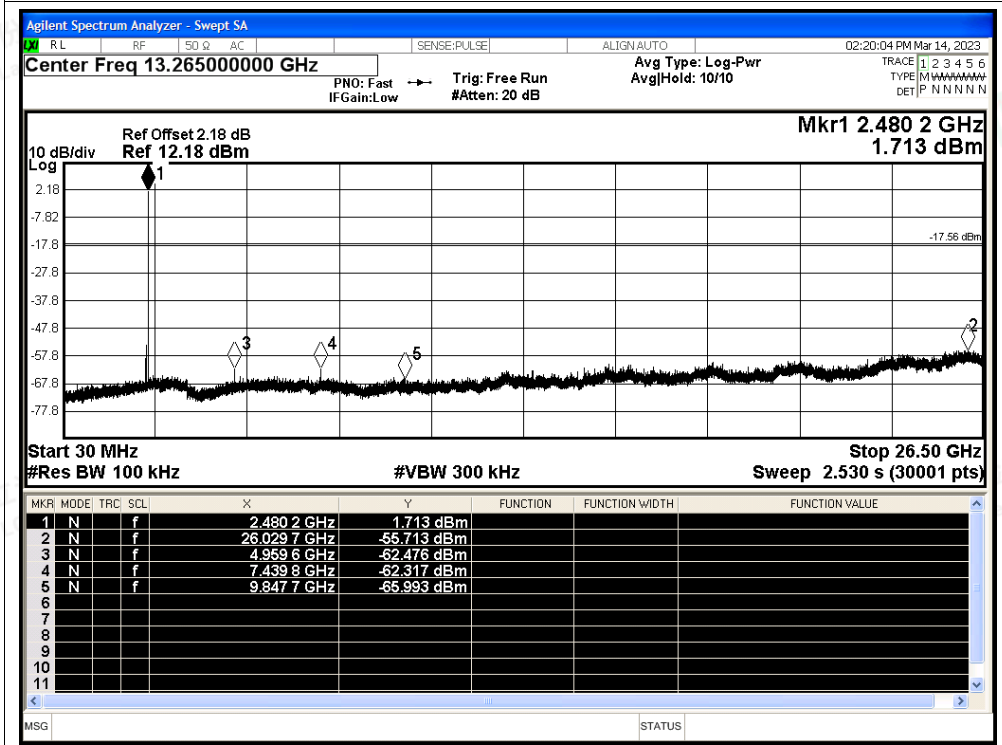




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

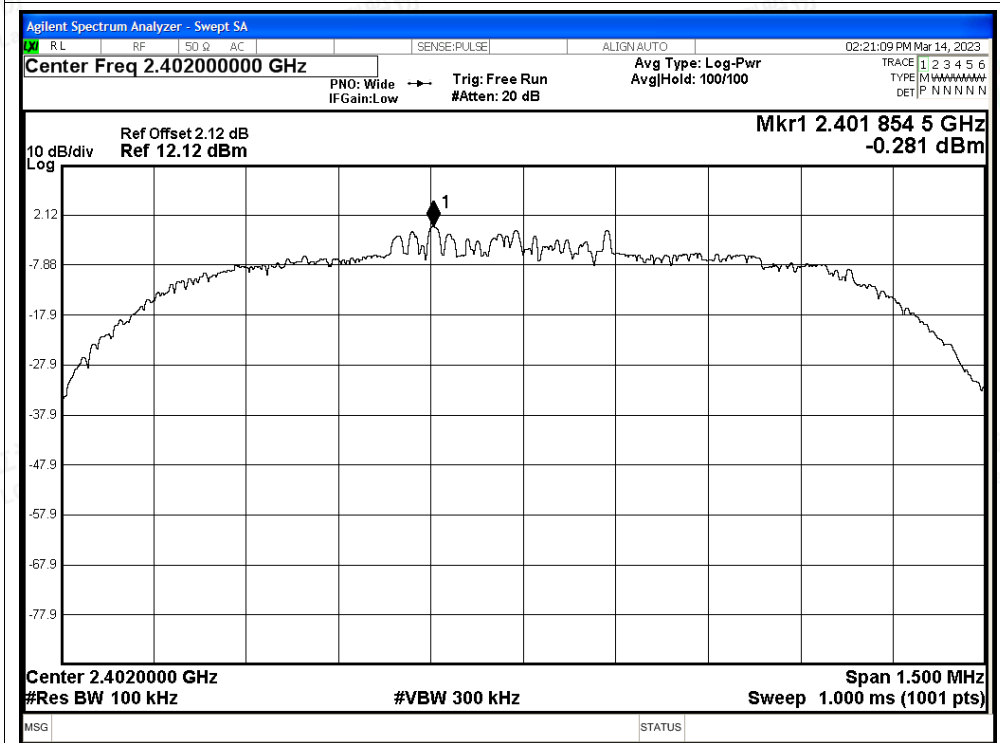


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

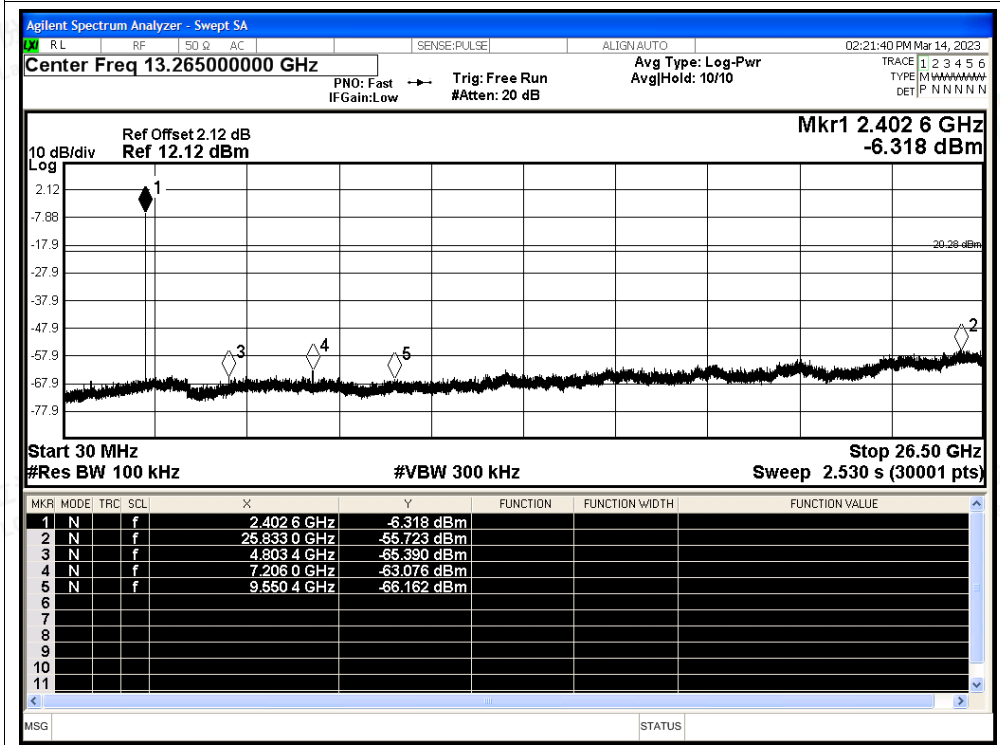




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

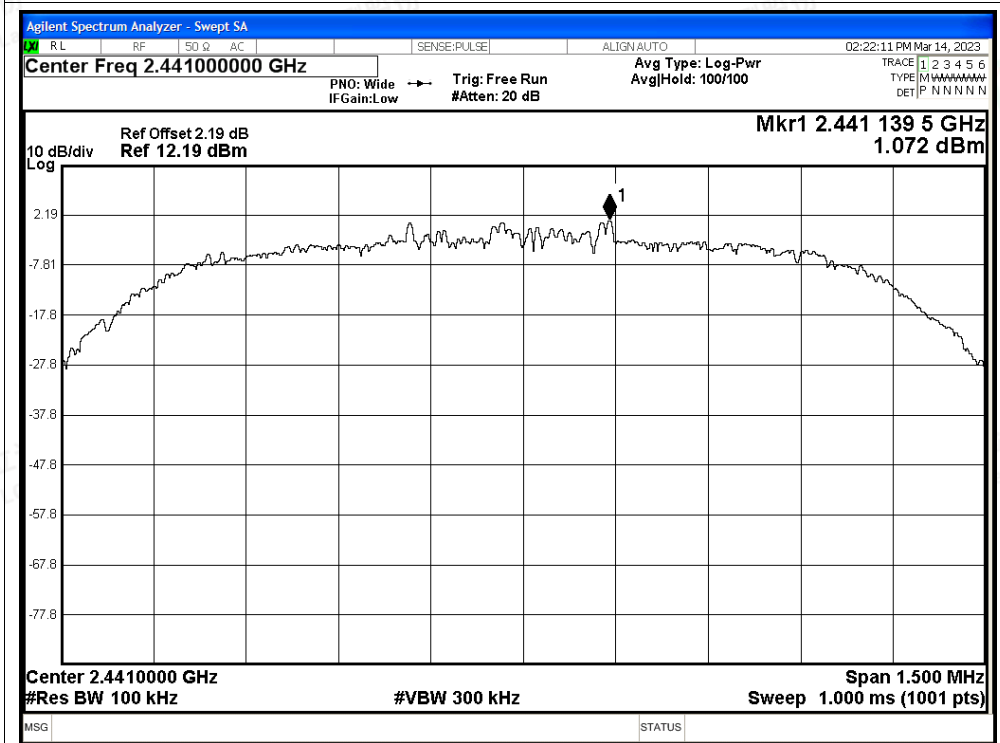


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

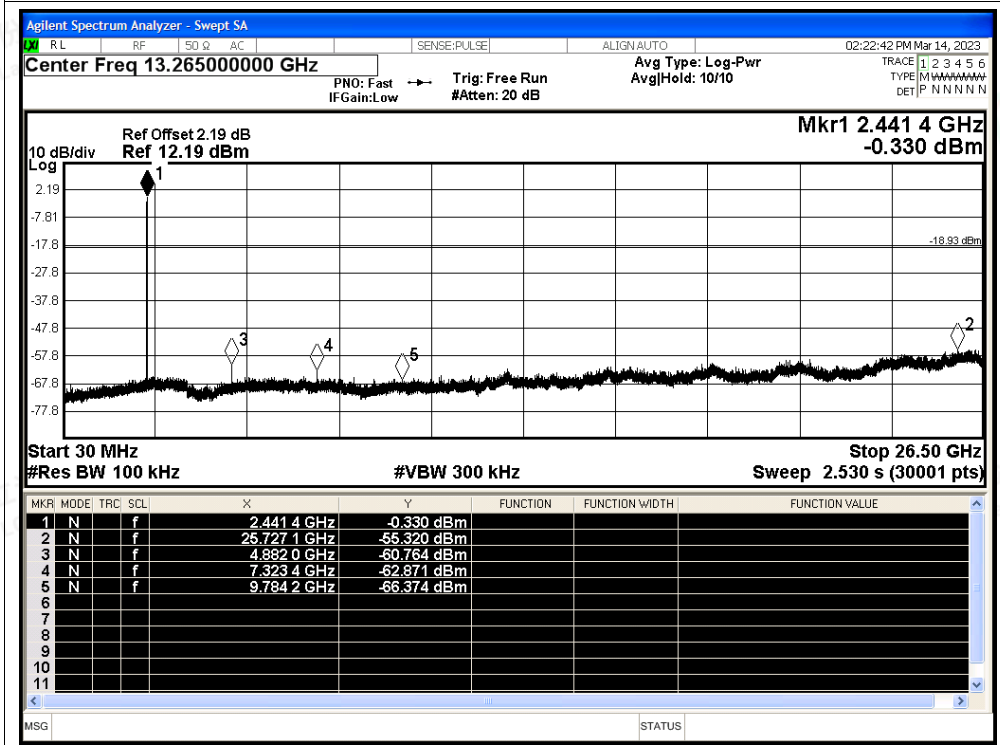




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



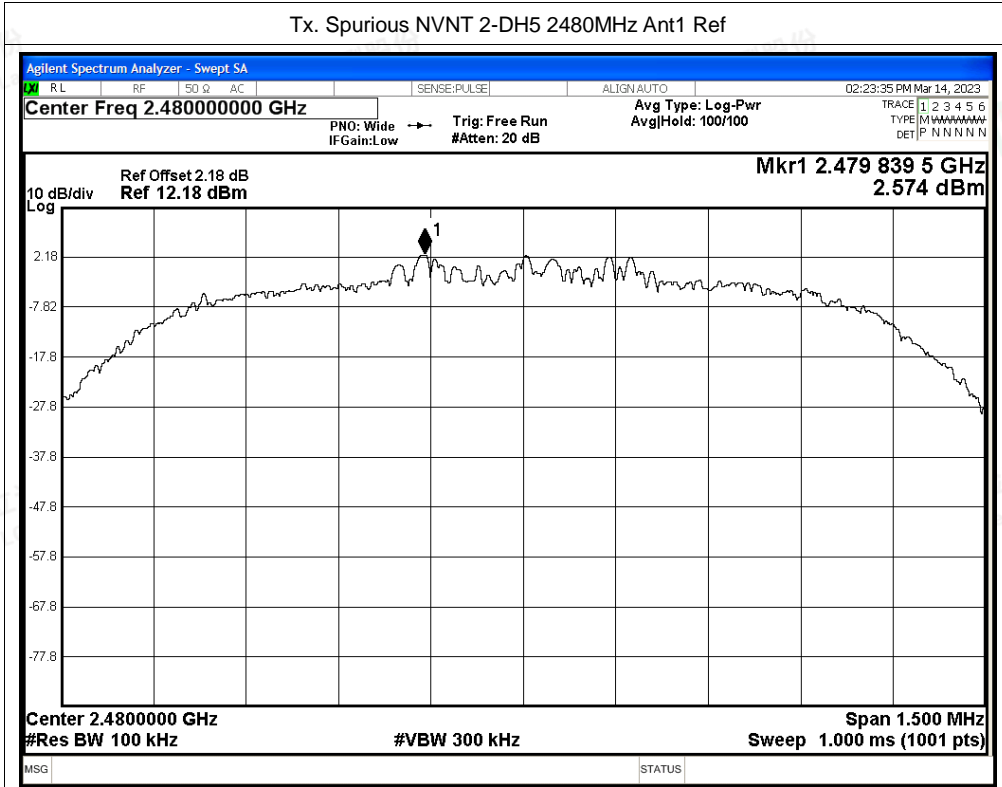
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



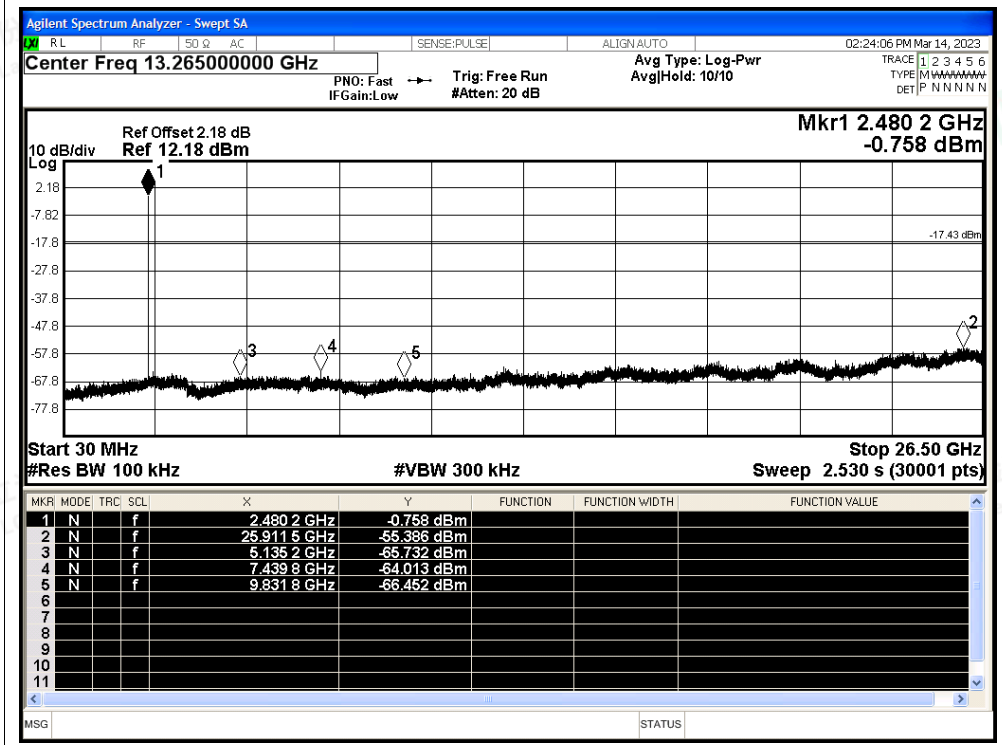




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-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	-50.63	2.7	47.33	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.25	2.7	37.71	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2341.776	-47.47	2.7	50.49	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2373.552	-59.81	2.7	38.15	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.75	2.7	49.21	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-59.93	2.7	38.03	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.1	2.7	47.86	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.44	2.7	38.52	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2495.488	-46.59	2.7	51.37	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.632	-59.36	2.7	38.60	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.26	2.7	49.70	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.73	2.7	38.23	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.7	2.7	46.26	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.4	2.7	37.56	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2354.256	-47.01	2.7	50.95	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2383.92	-59.84	2.7	38.12	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.76	2.7	47.20	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.07	2.7	37.89	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.08	2.7	49.88	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.02	2.7	38.94	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2497.024	-47.03	2.7	50.93	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.536	-59	2.7	38.96	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.44	2.7	47.52	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.55	2.7	38.41	Average	54	Pass



Shenzhen LCS Compliance Testing Laboratory Ltd.

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

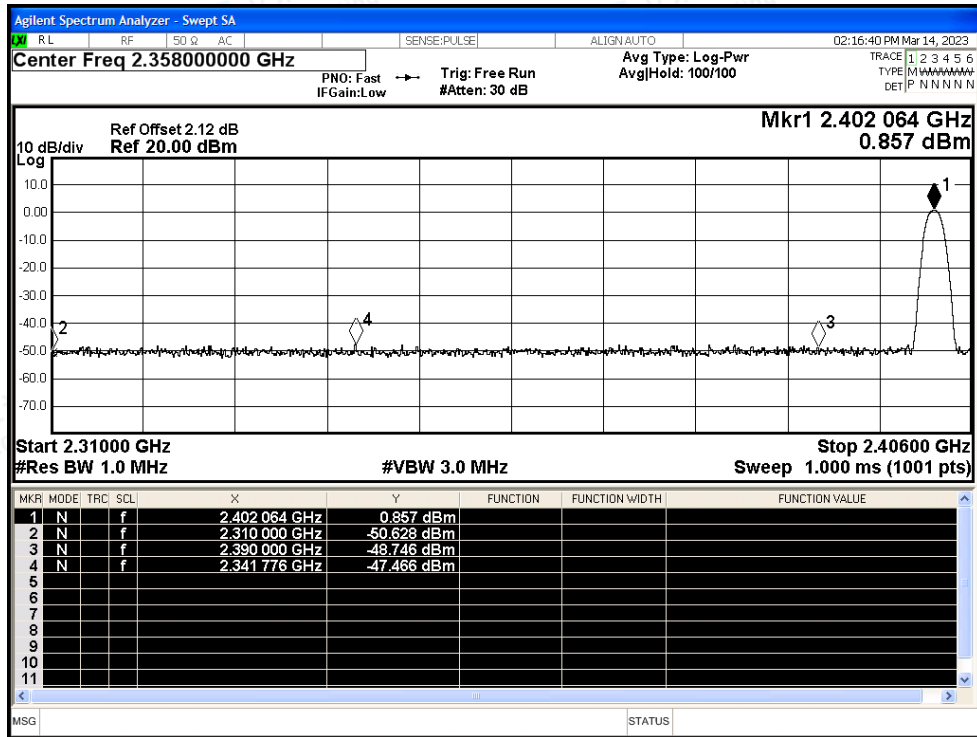
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Test Graphs

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



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

