



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: 3D Printer

Test Model: Anycubic Kobra 2 Pro

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.028	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.03	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.029	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.283	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.311	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.279	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.287	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.287	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.286	N/A	Pass



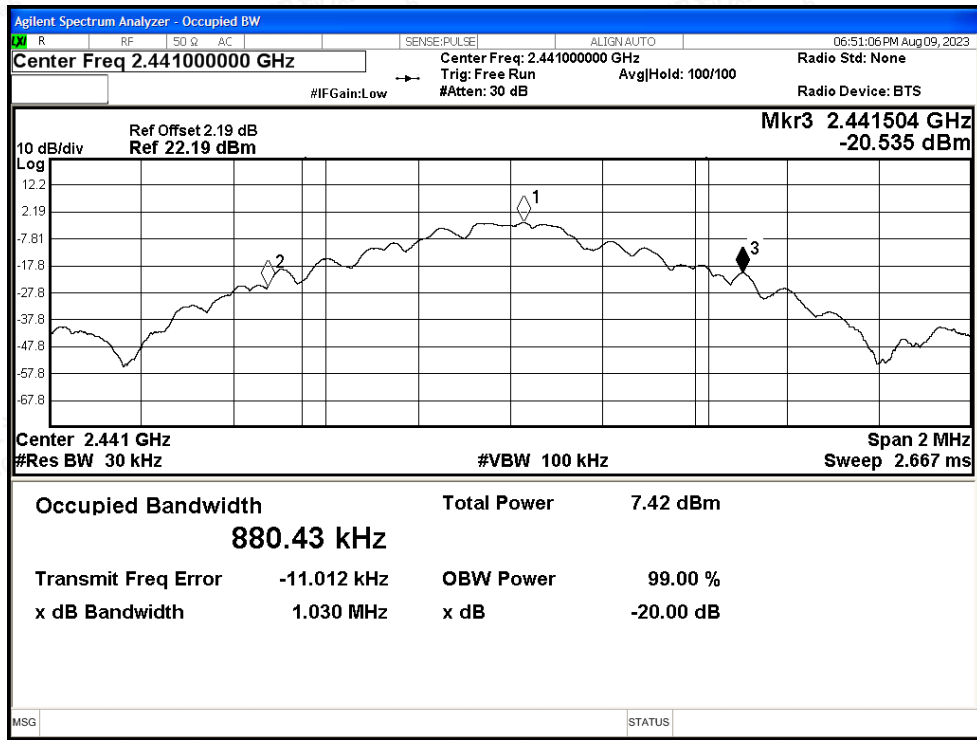


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

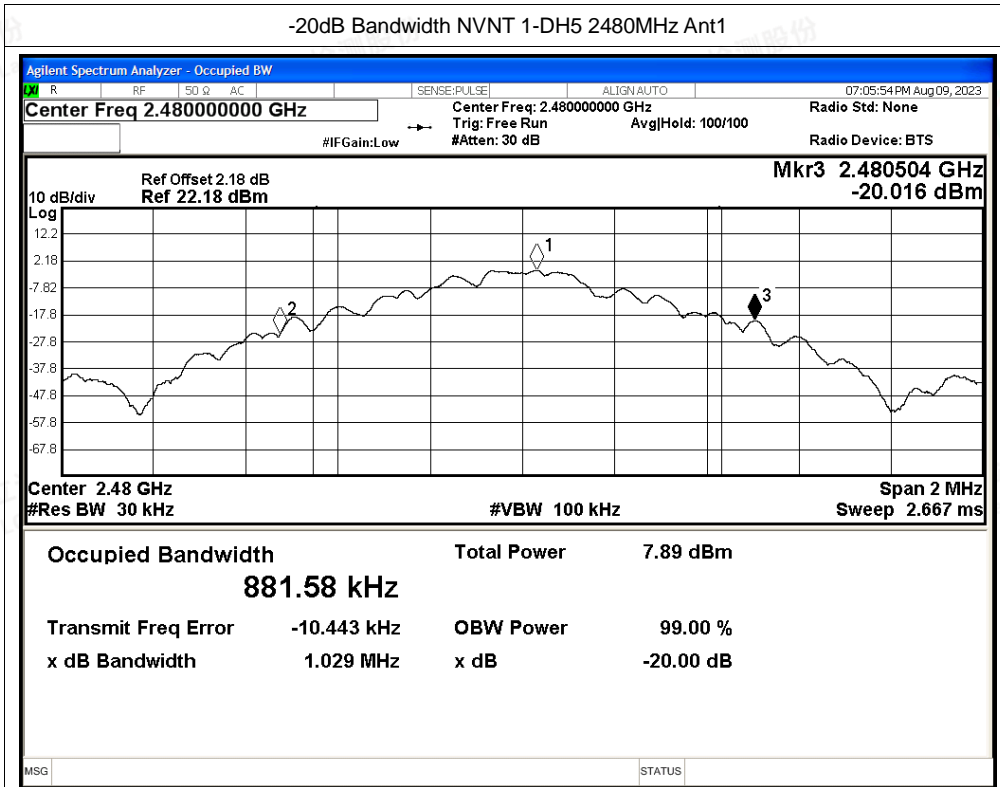


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

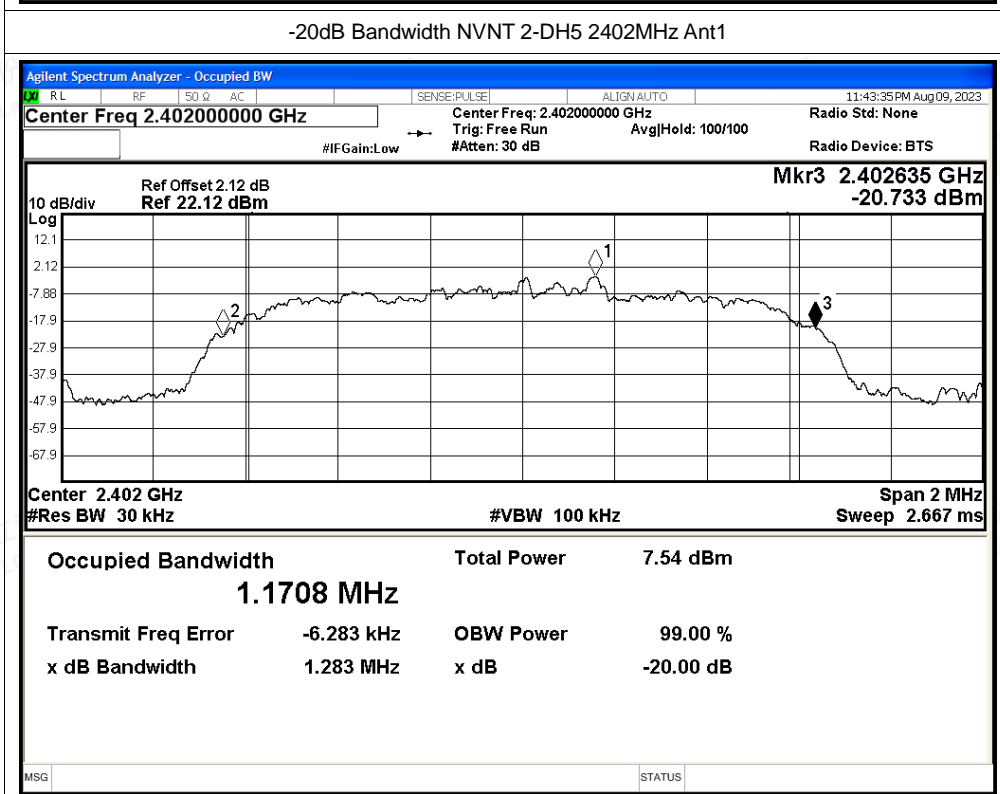




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

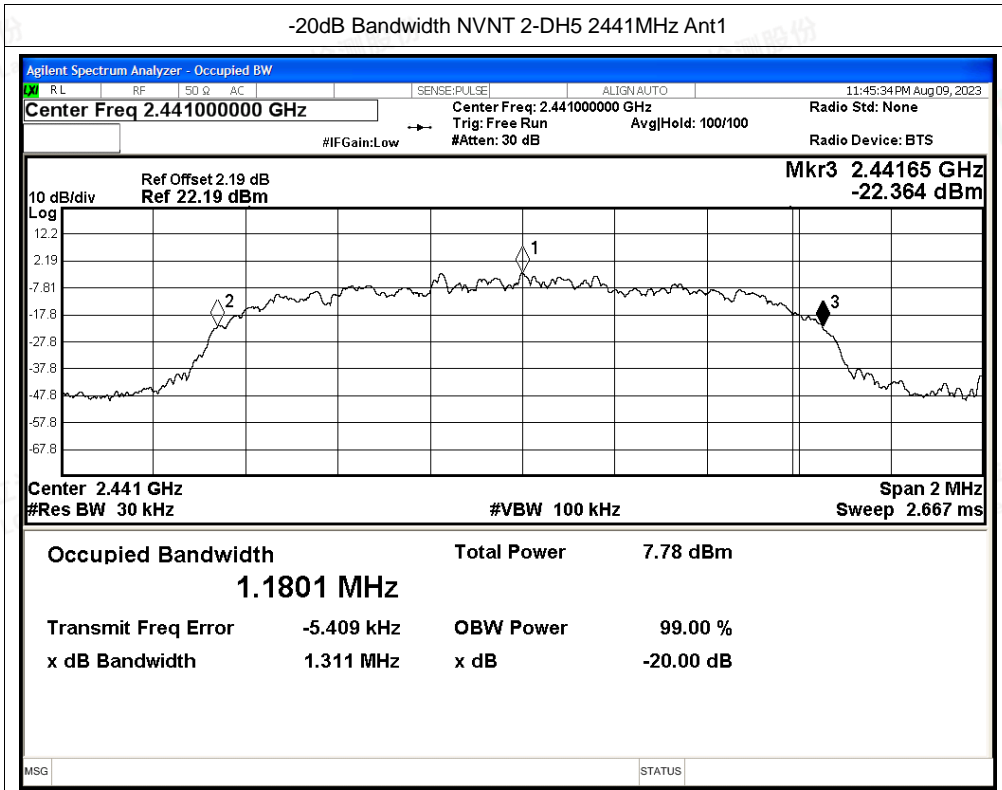


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

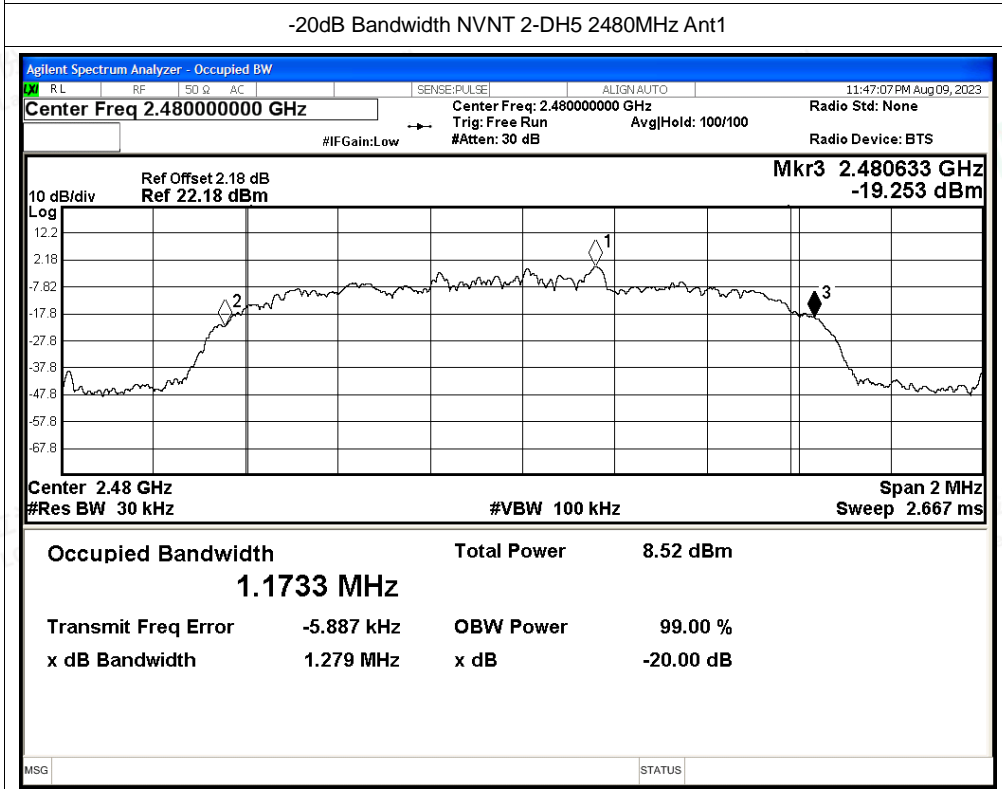




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

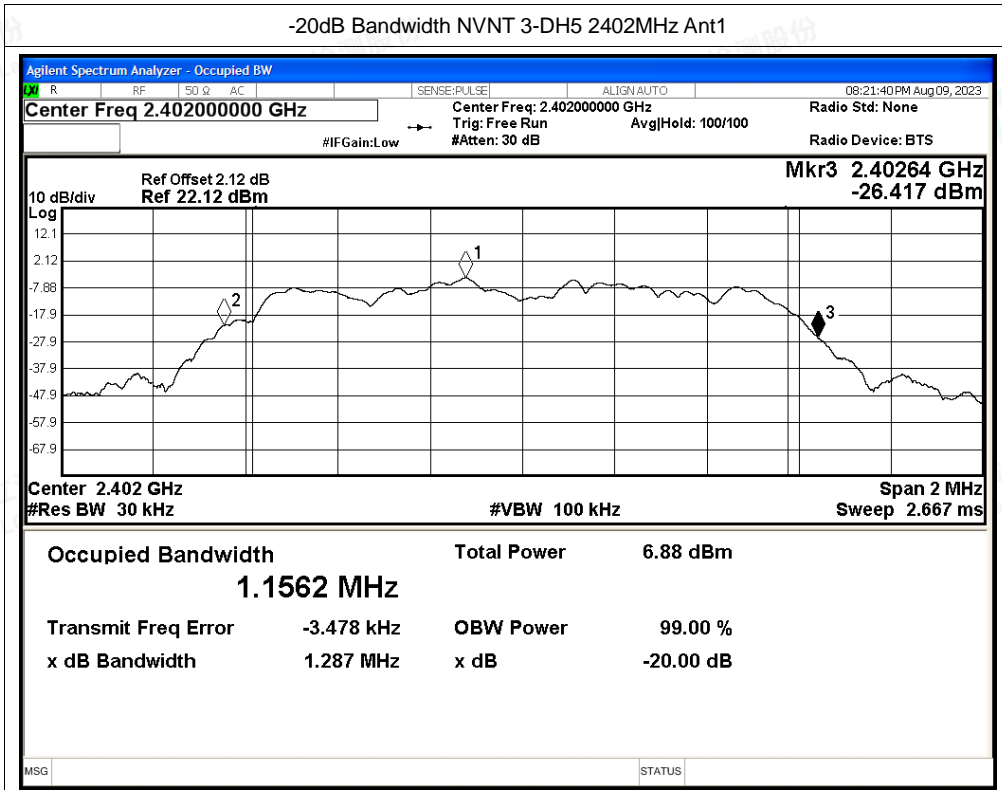


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

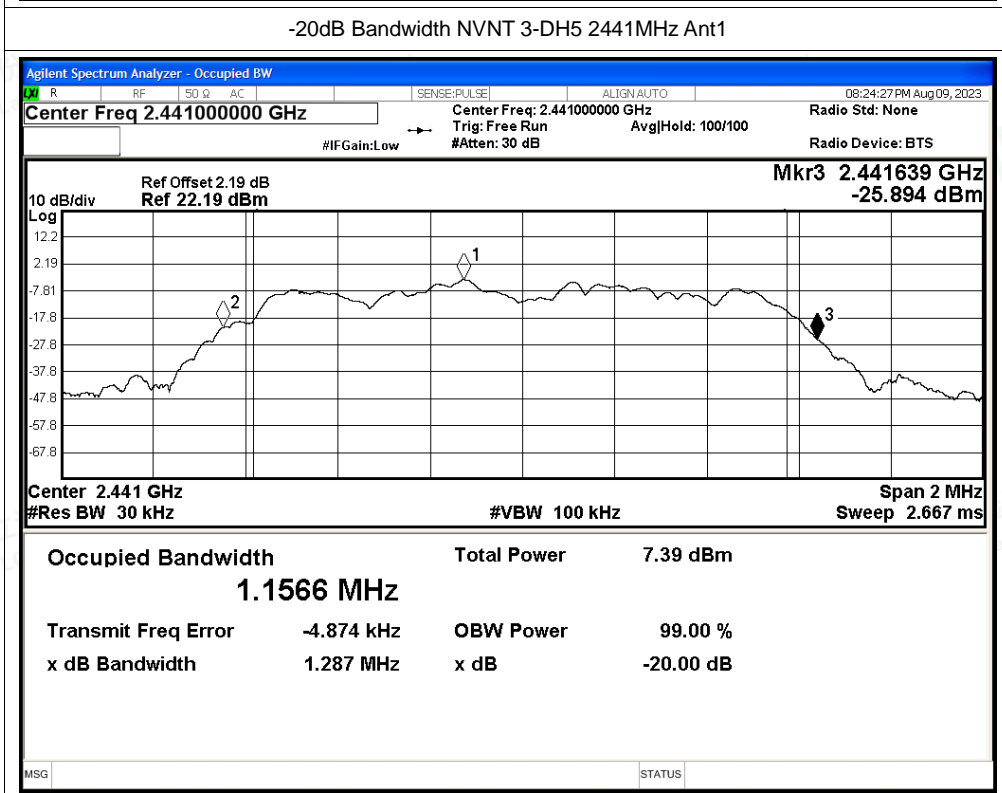


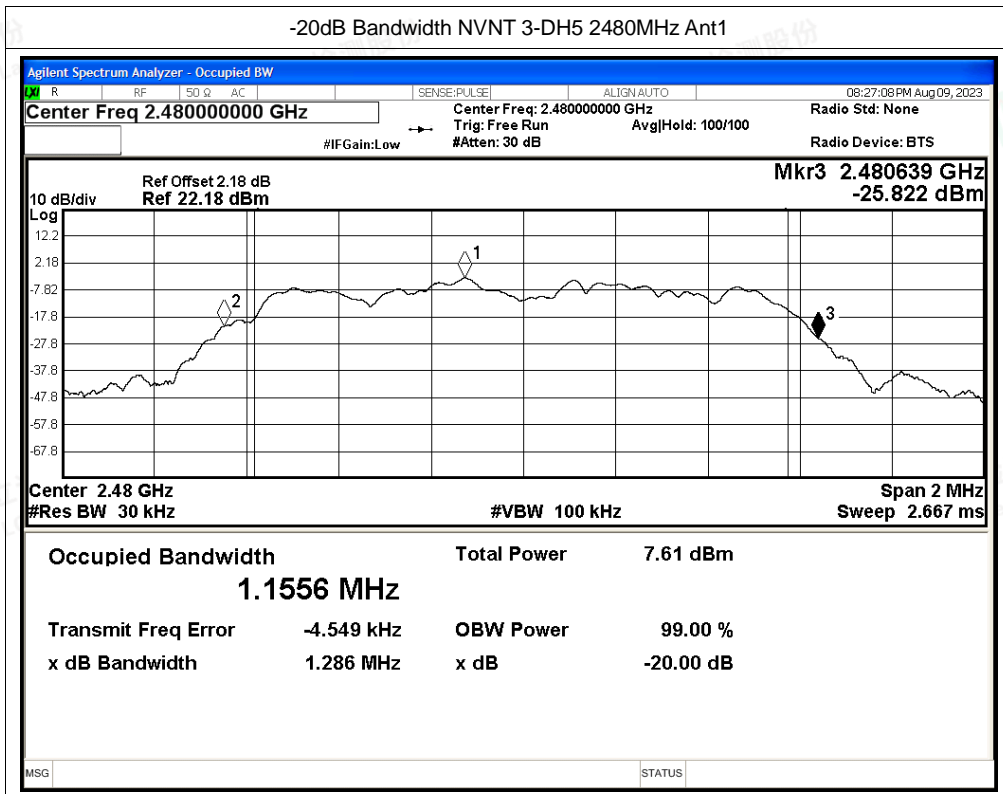


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Conducted Output Power

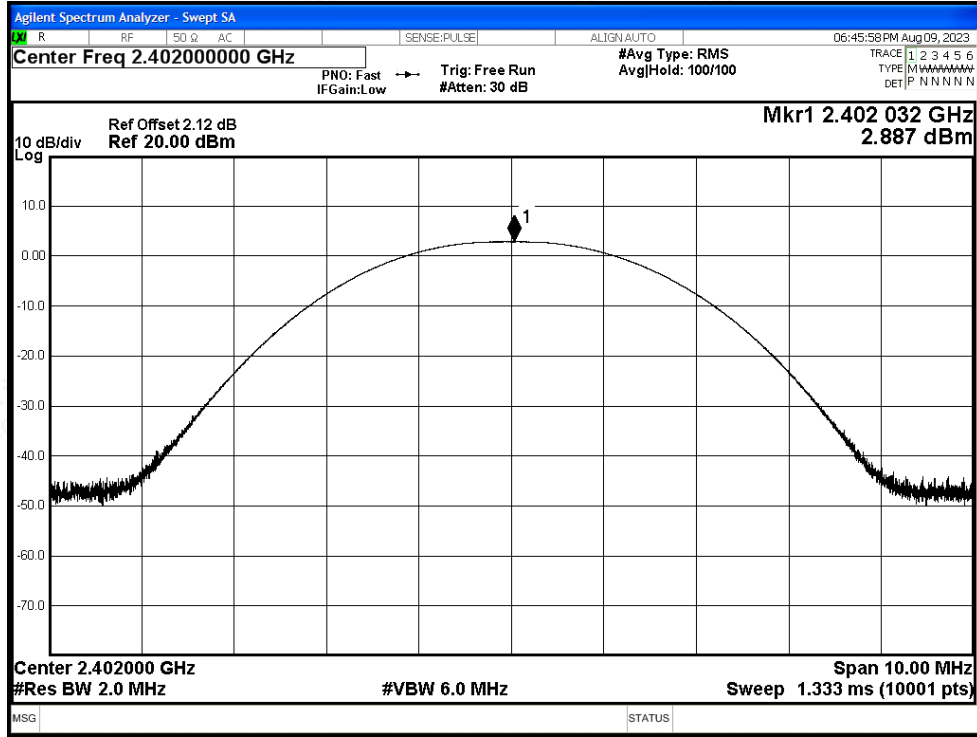
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	2.89	21	Pass
NVNT	1-DH5	2441	Ant1	2.64	21	Pass
NVNT	1-DH5	2480	Ant1	3.18	21	Pass
NVNT	2-DH5	2402	Ant1	3.19	21	Pass
NVNT	2-DH5	2441	Ant1	2.87	21	Pass
NVNT	2-DH5	2480	Ant1	3.1	21	Pass
NVNT	3-DH5	2402	Ant1	4.94	21	Pass
NVNT	3-DH5	2441	Ant1	5.45	21	Pass
NVNT	3-DH5	2480	Ant1	5.65	21	Pass



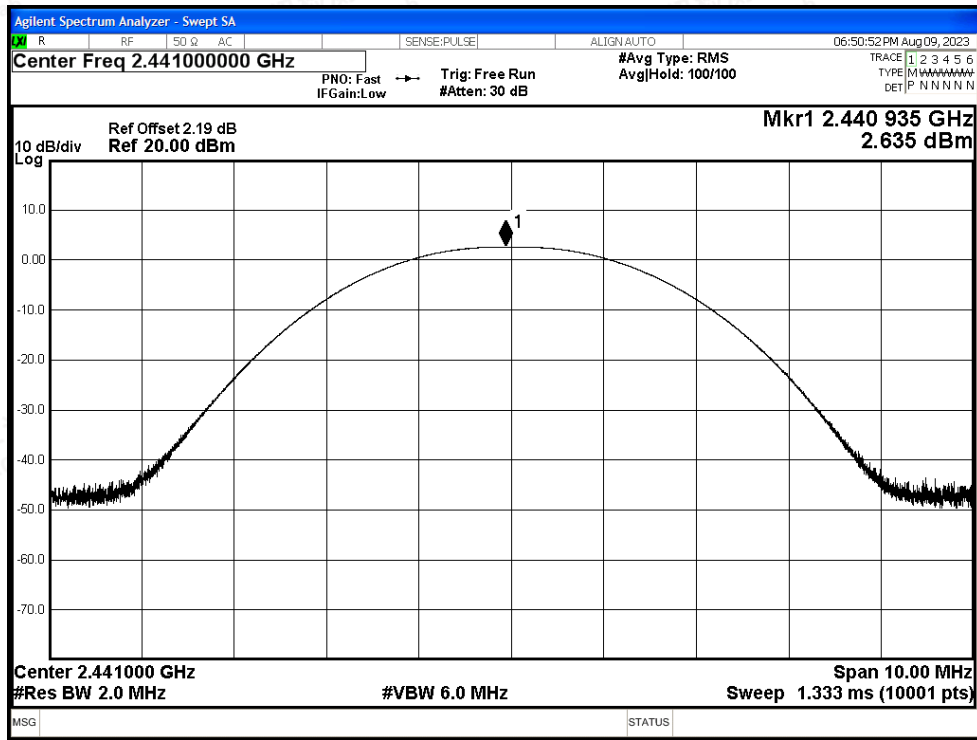


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

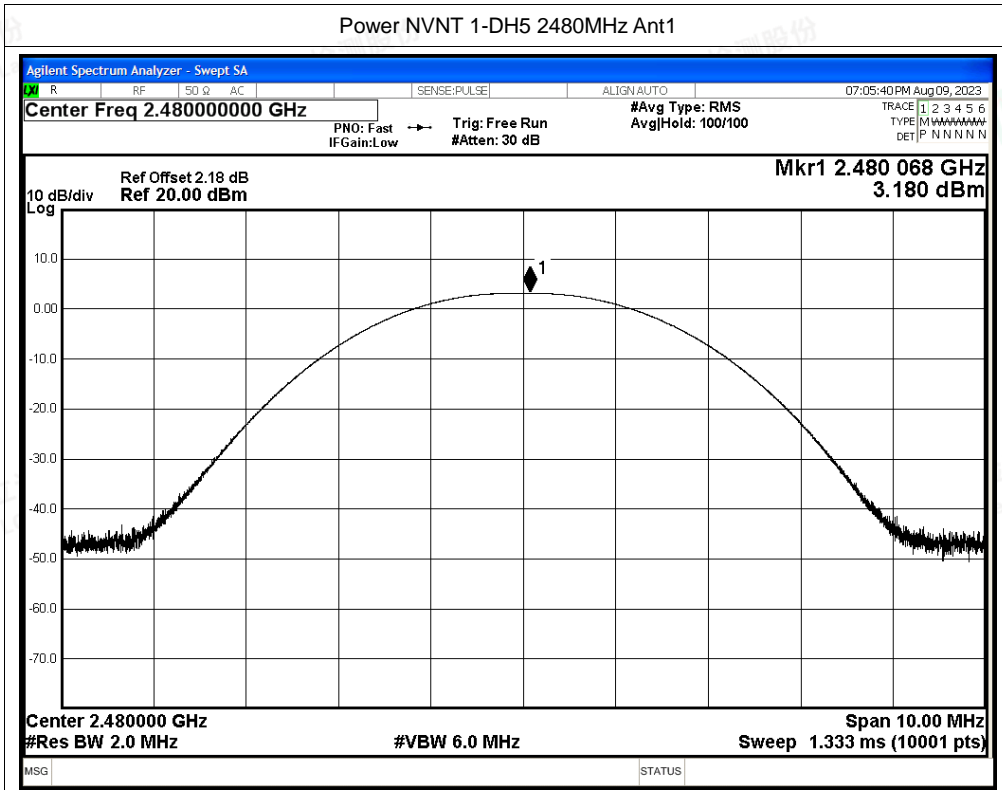


Power NVNT 1-DH5 2441MHz Ant1

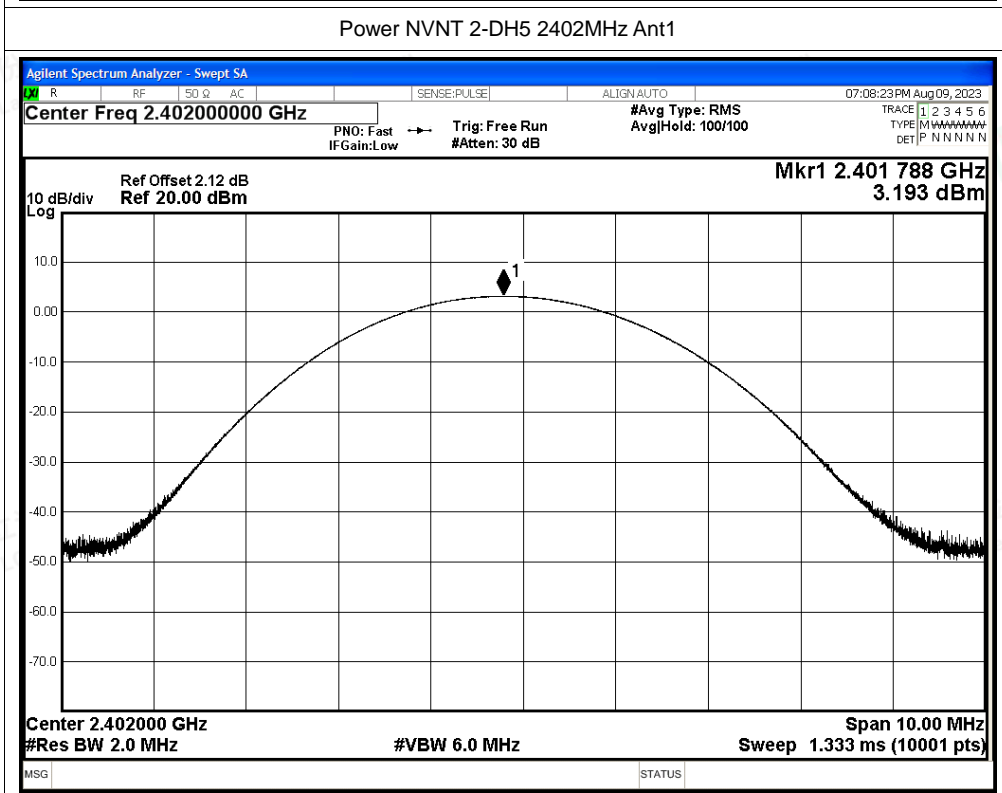


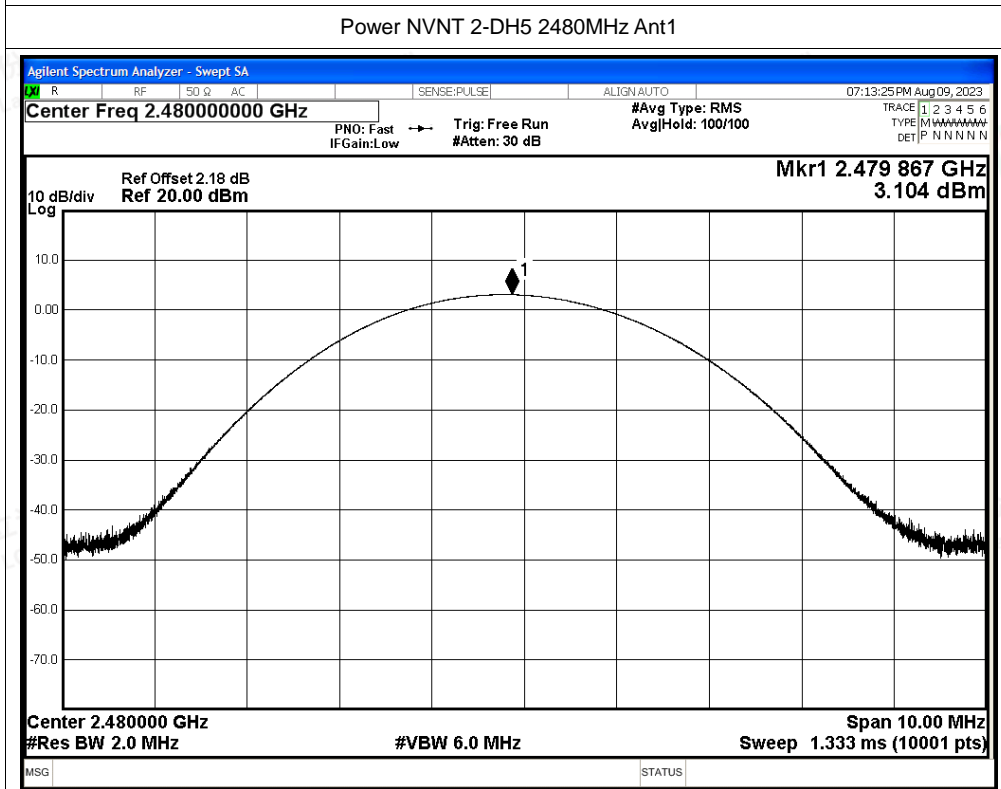
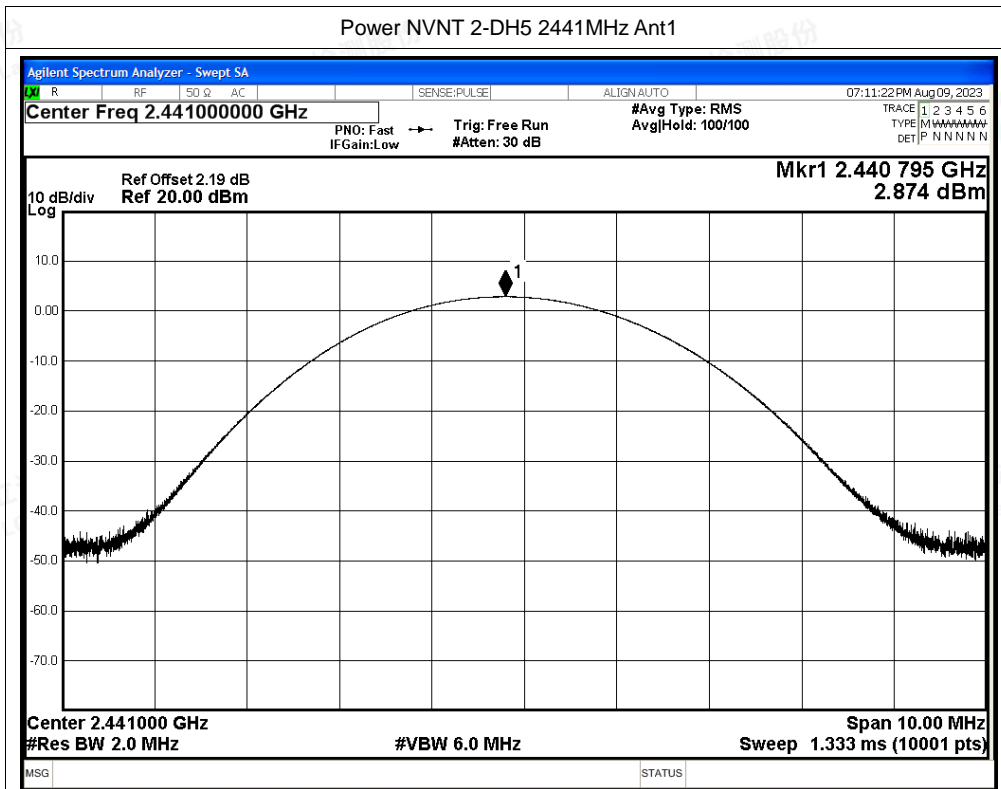


Power NVNT 1-DH5 2480MHz Ant1



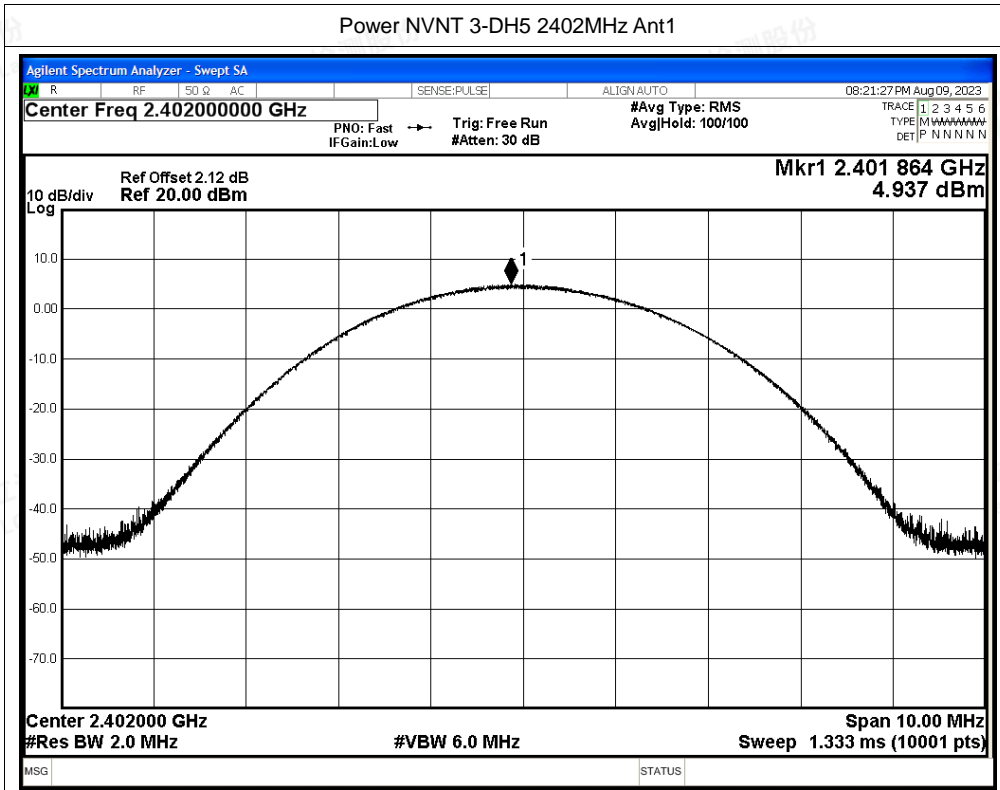
Power NVNT 2-DH5 2402MHz Ant1



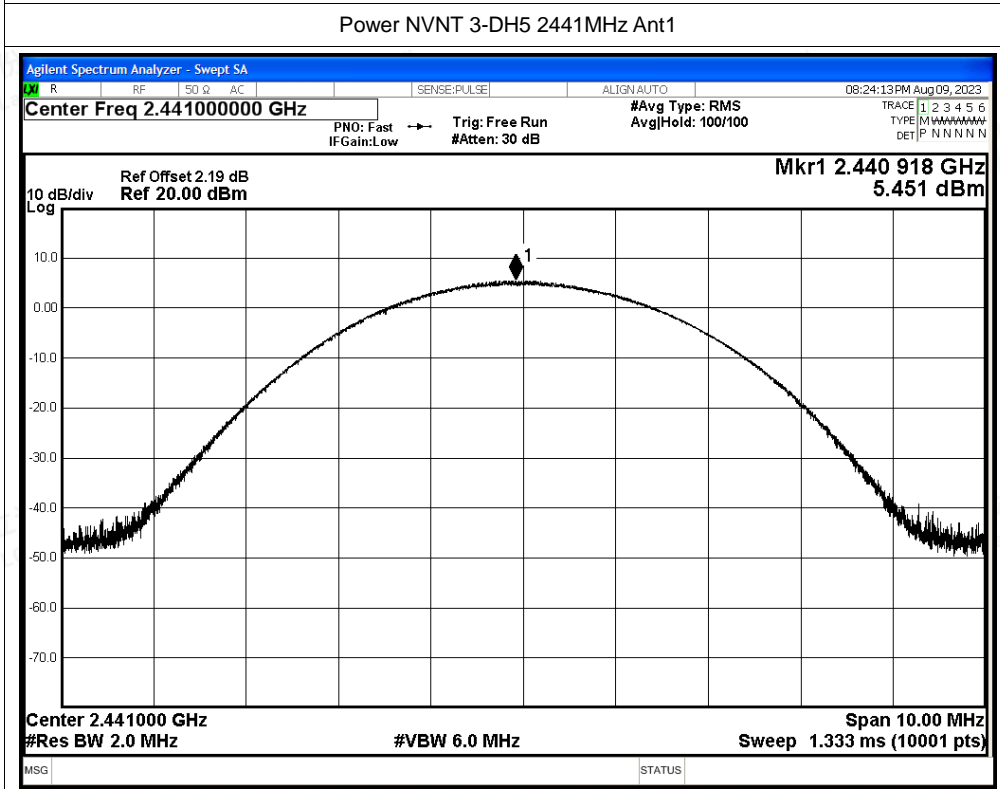


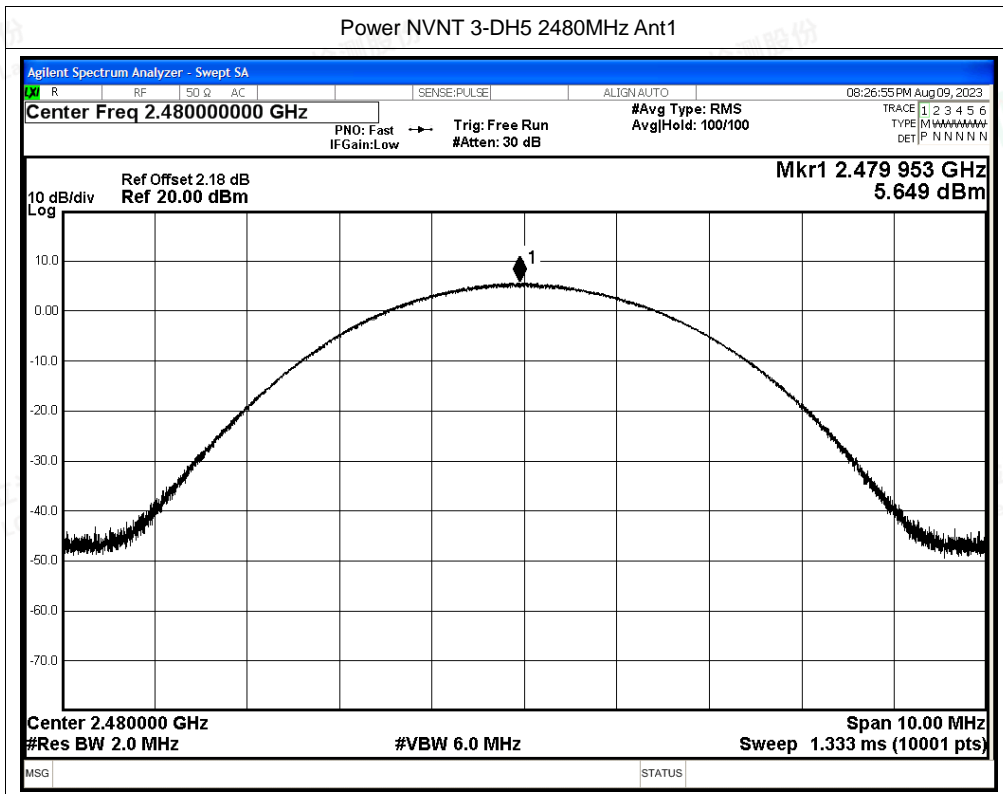


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

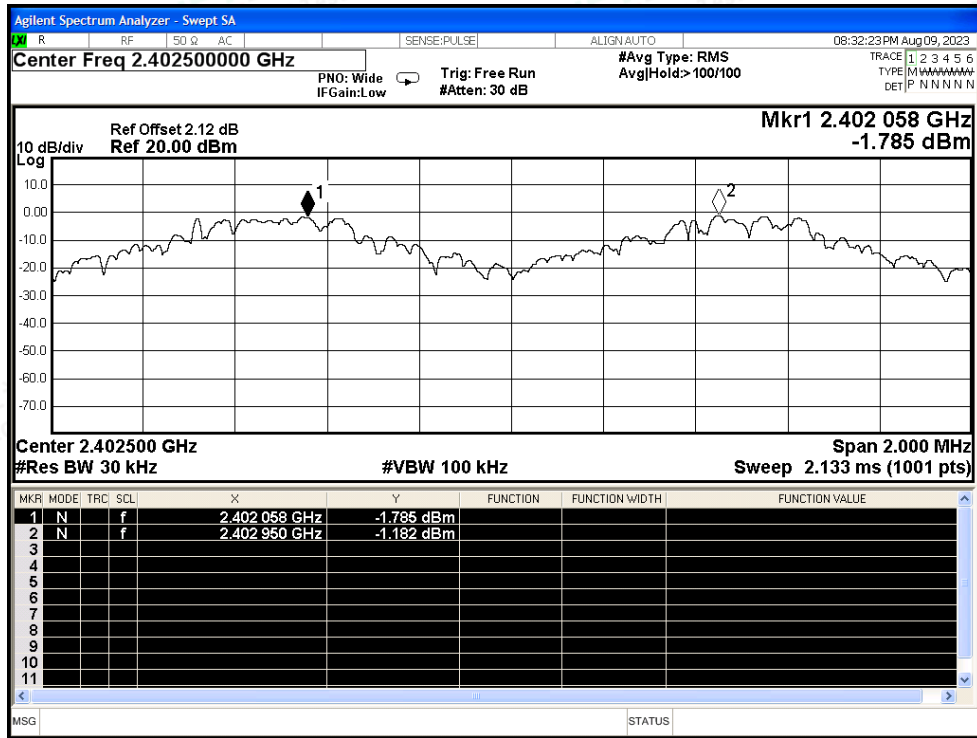
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.058	2402.95	0.892	0.687	Pass
NVNT	2-DH5	Ant1	2402.022	2403.162	1.14	0.712	Pass
NVNT	3-DH5	Ant1	2401.812	2402.678	0.866	0.858	Pass



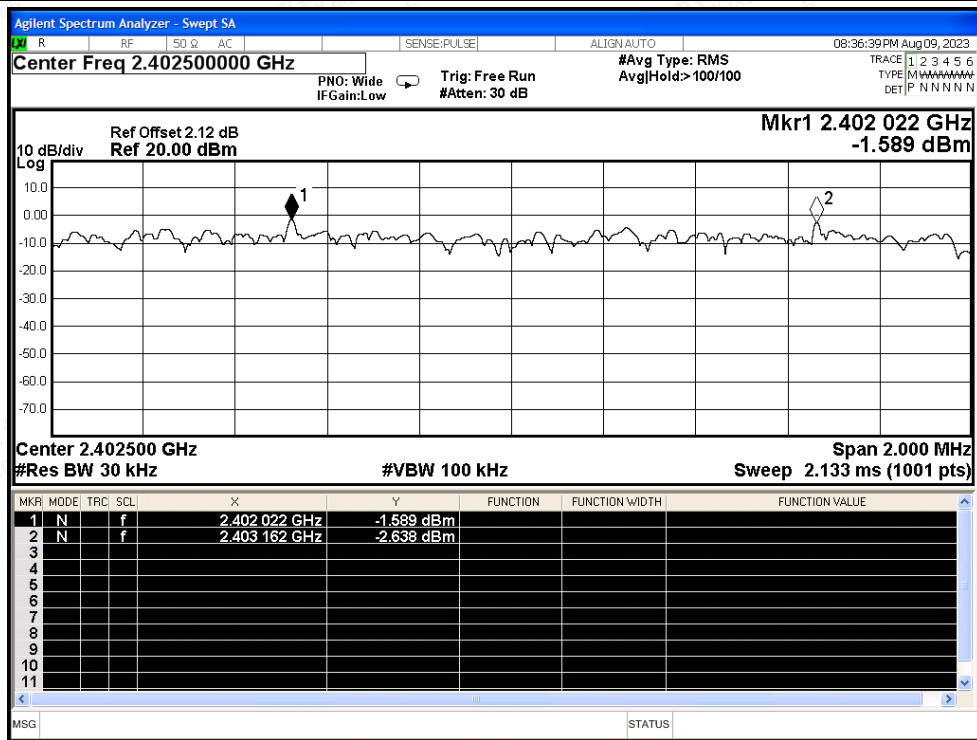


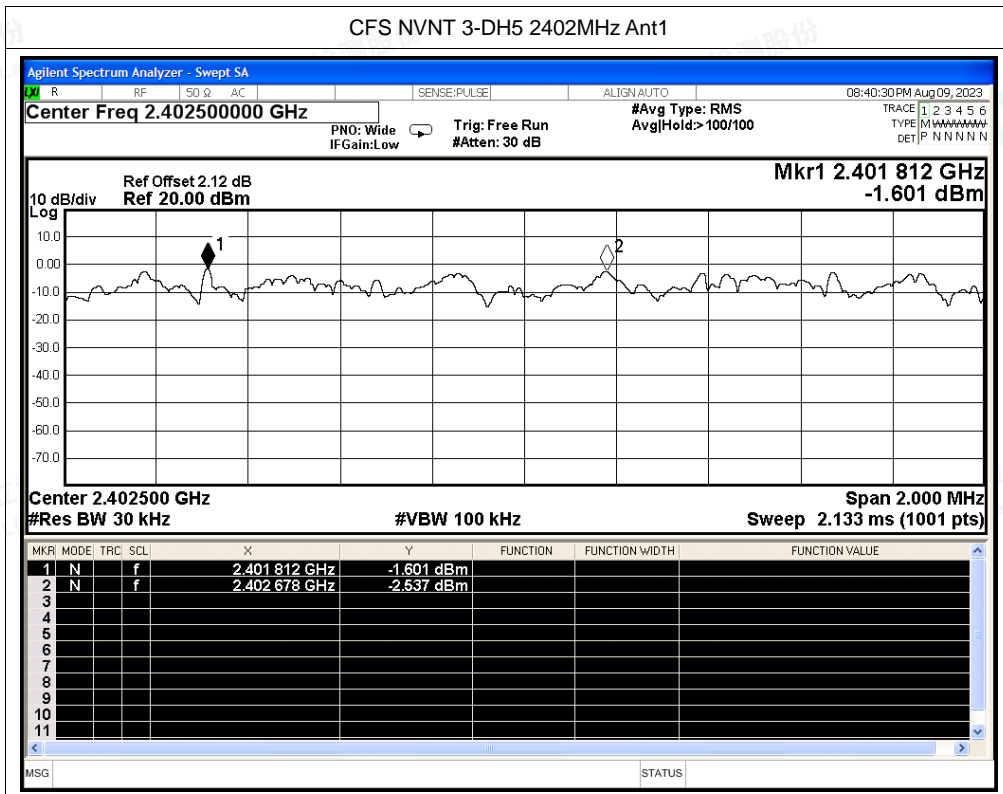
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

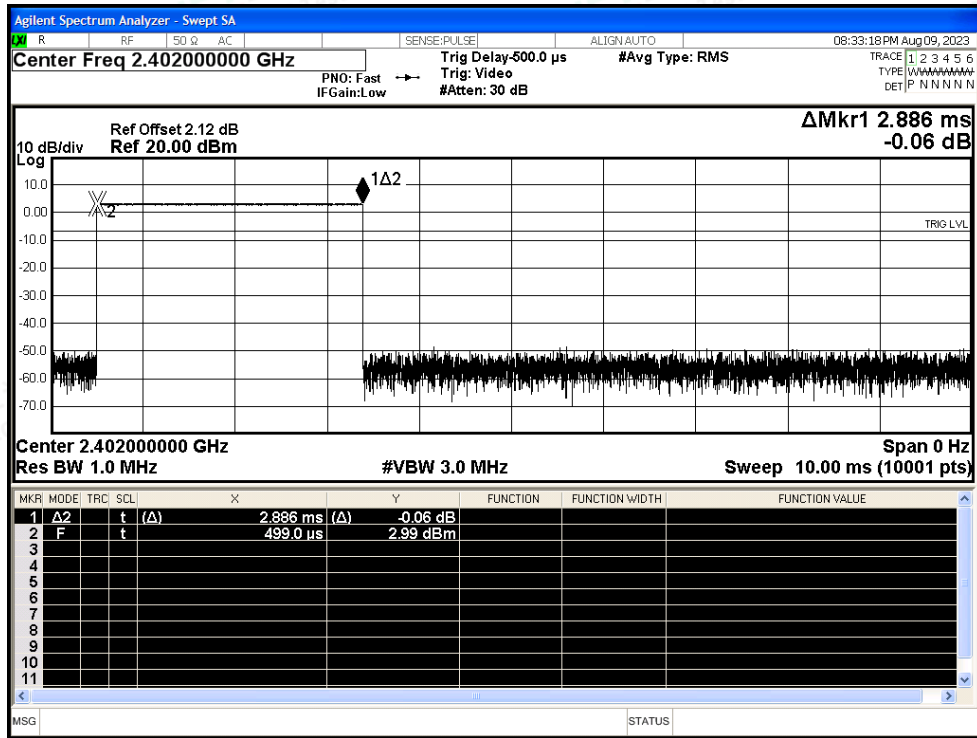
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.886	314.574	109	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.892	292.092	101	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.893	300.872	104	31600	400	Pass



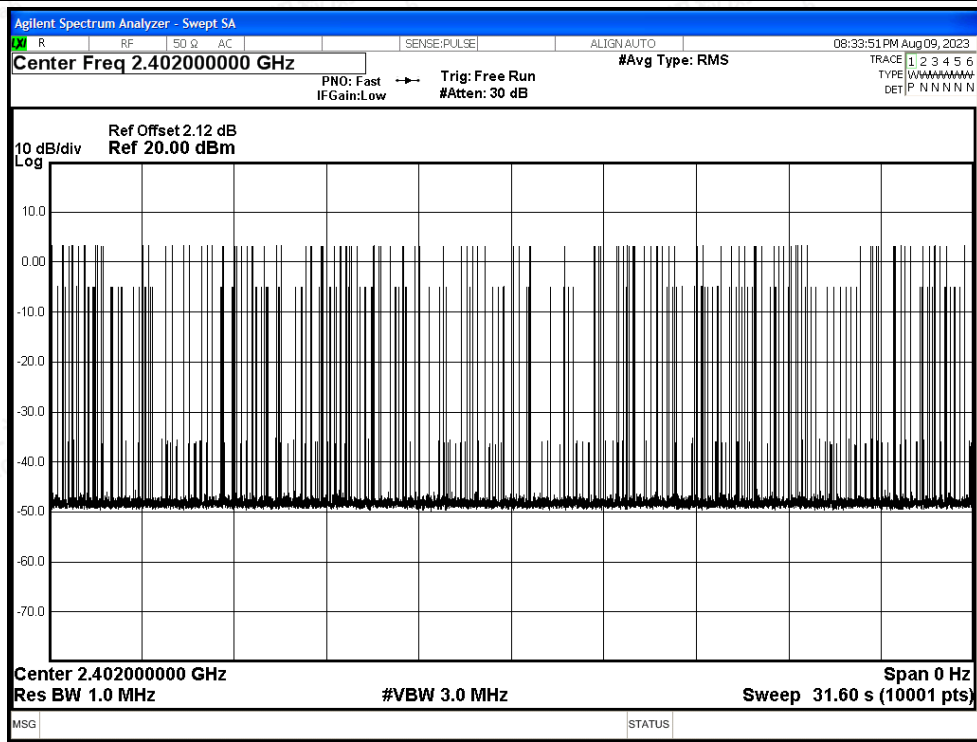


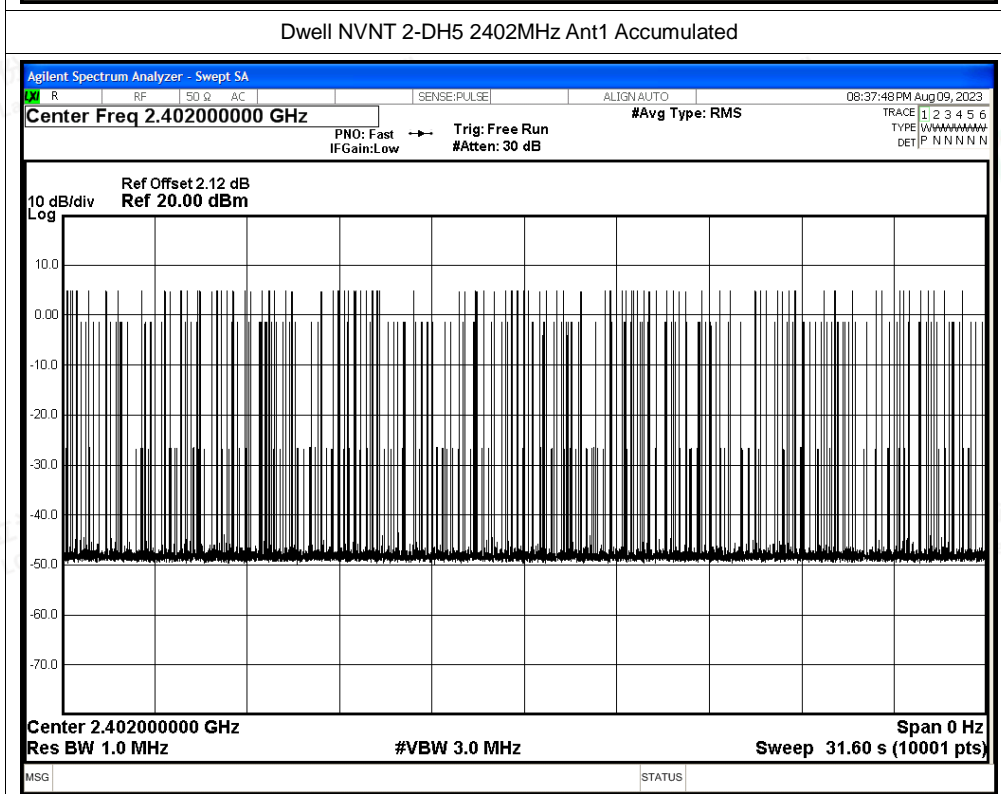
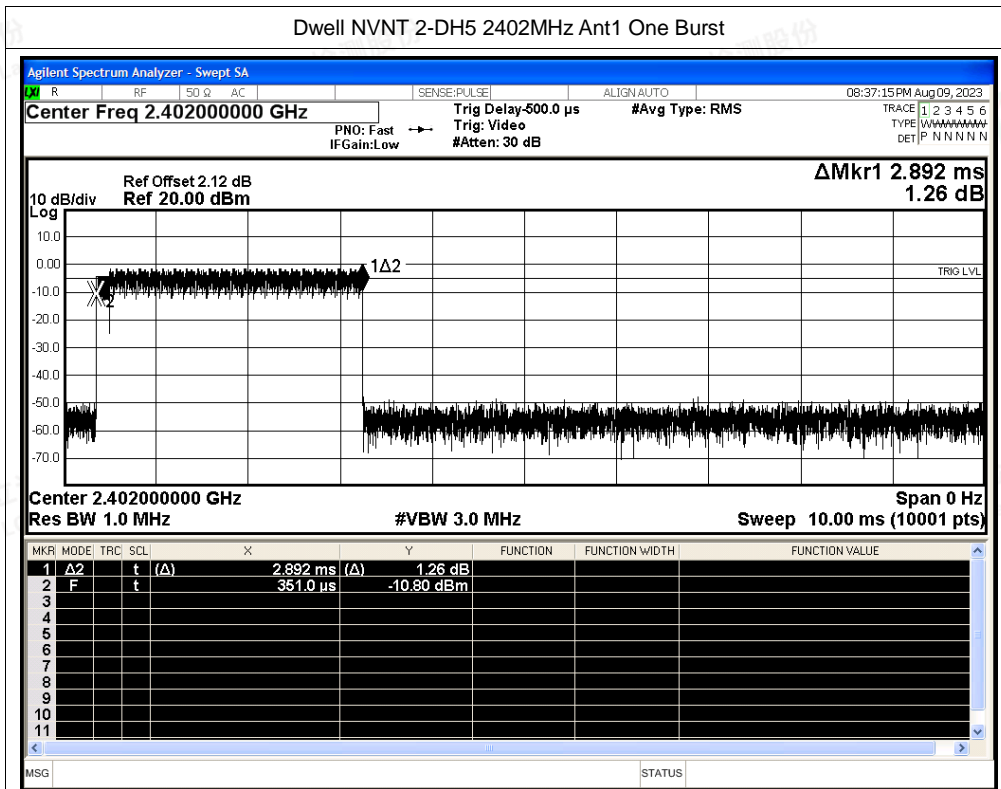
Test Graphs

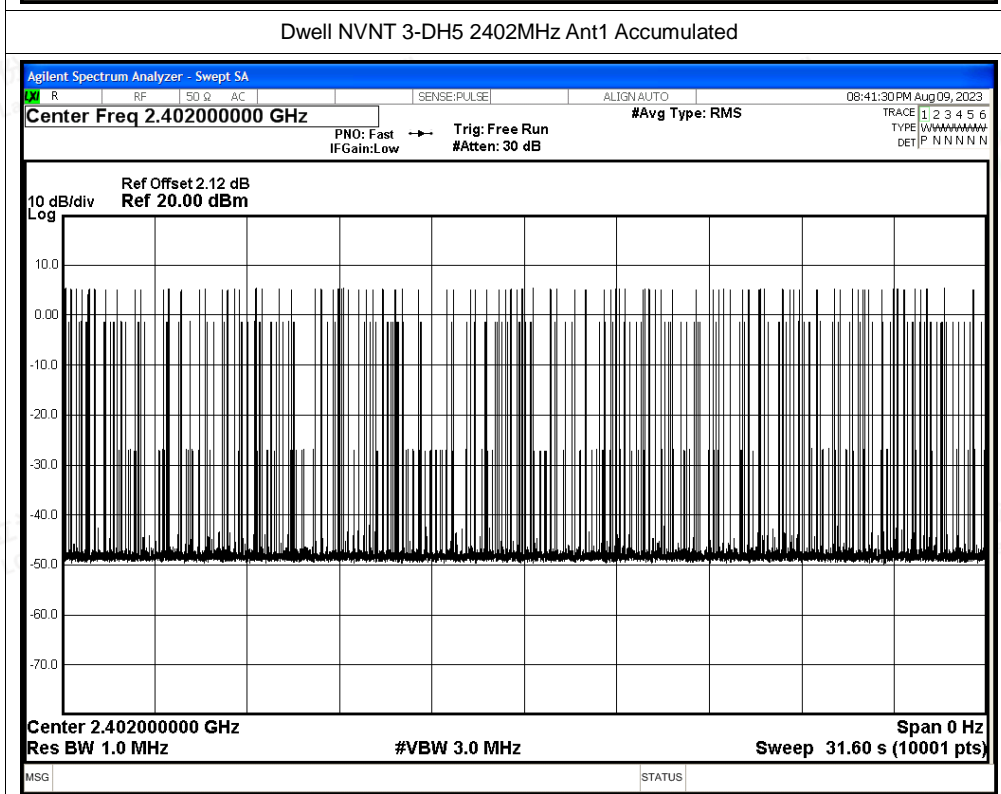
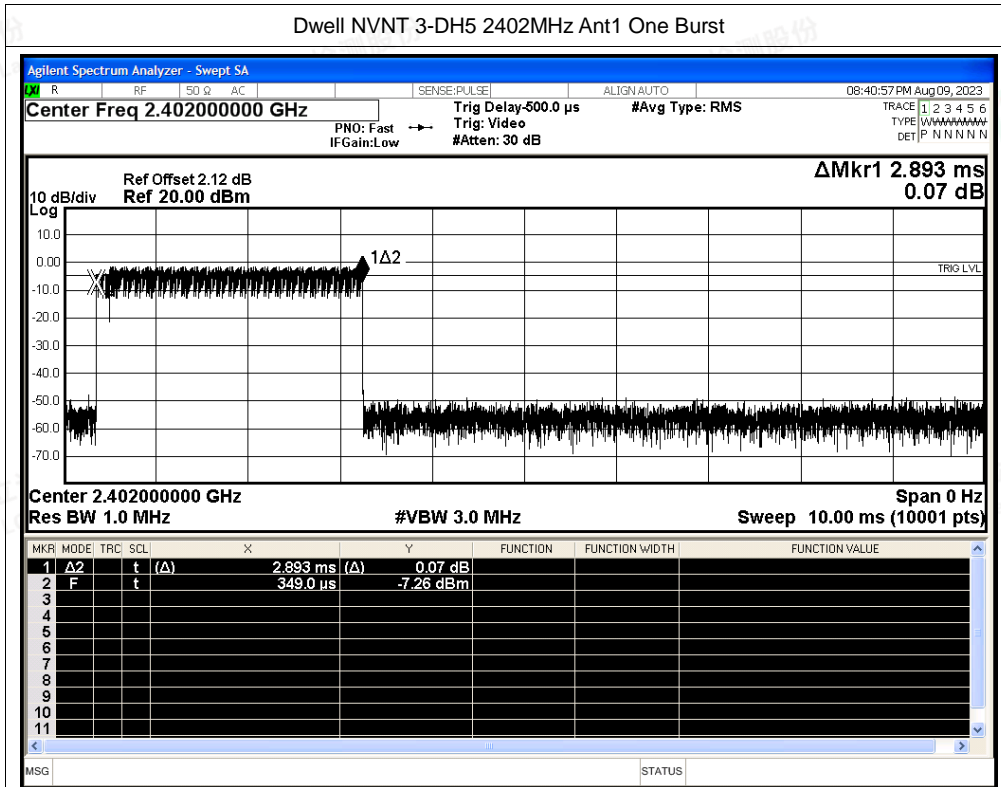
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated









A.5 Number of Hopping Channel

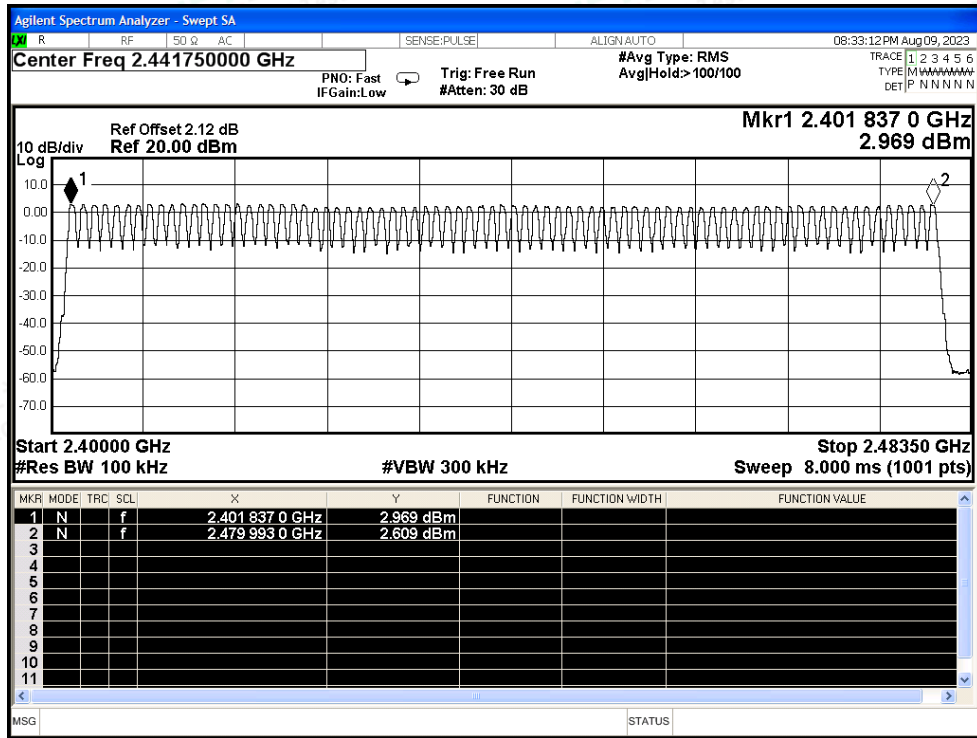
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



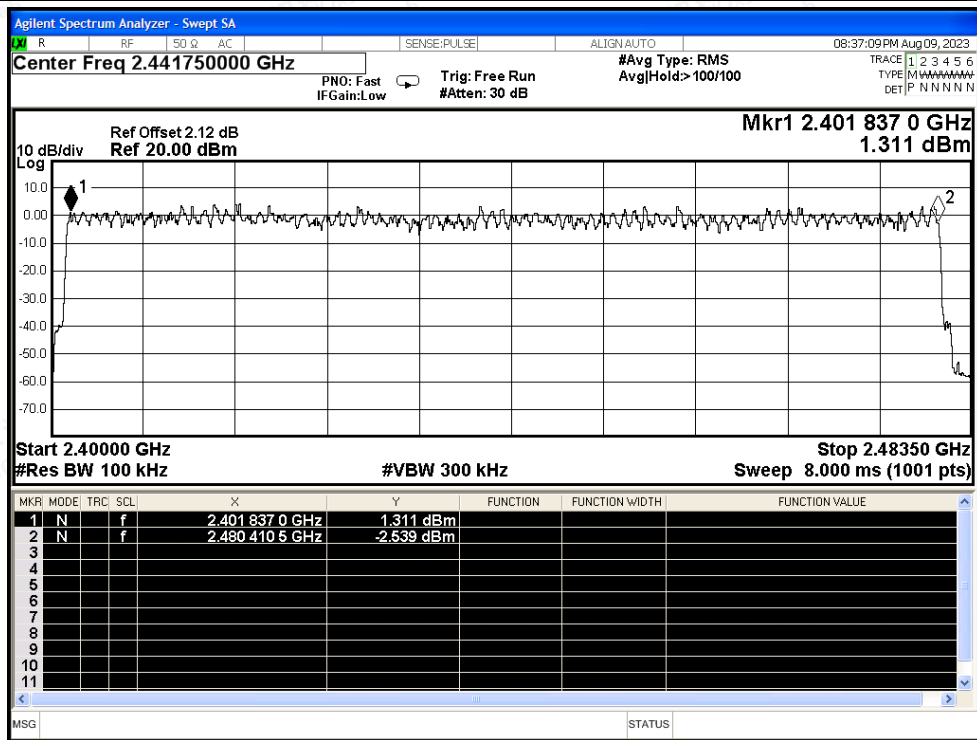


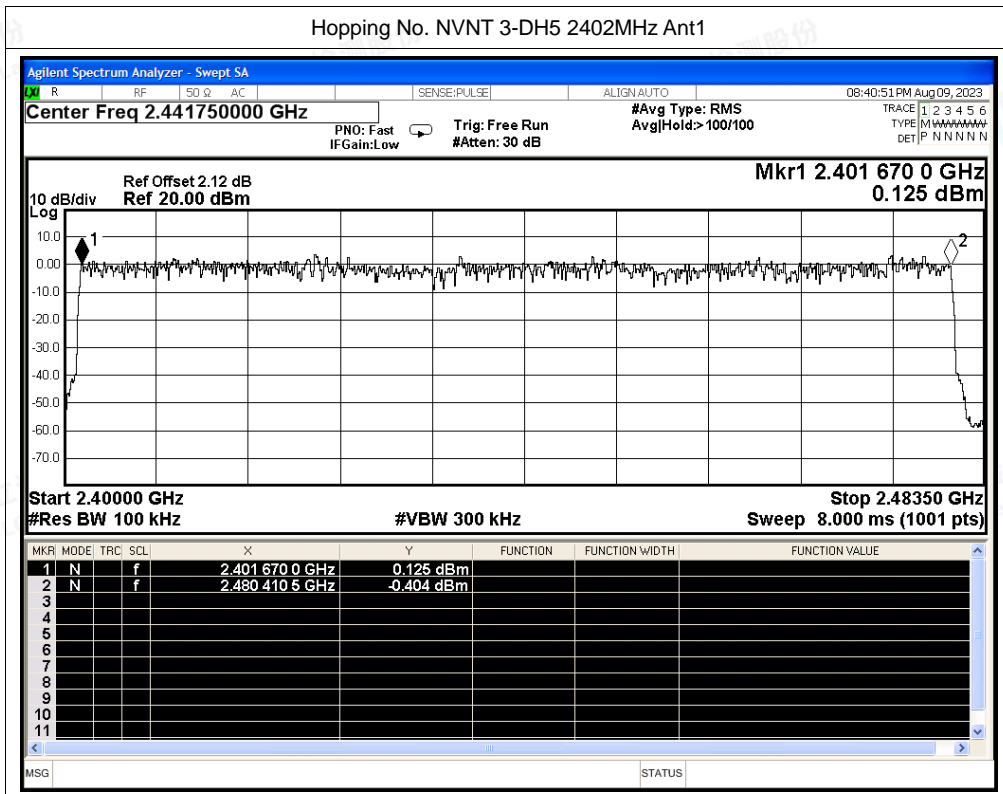
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

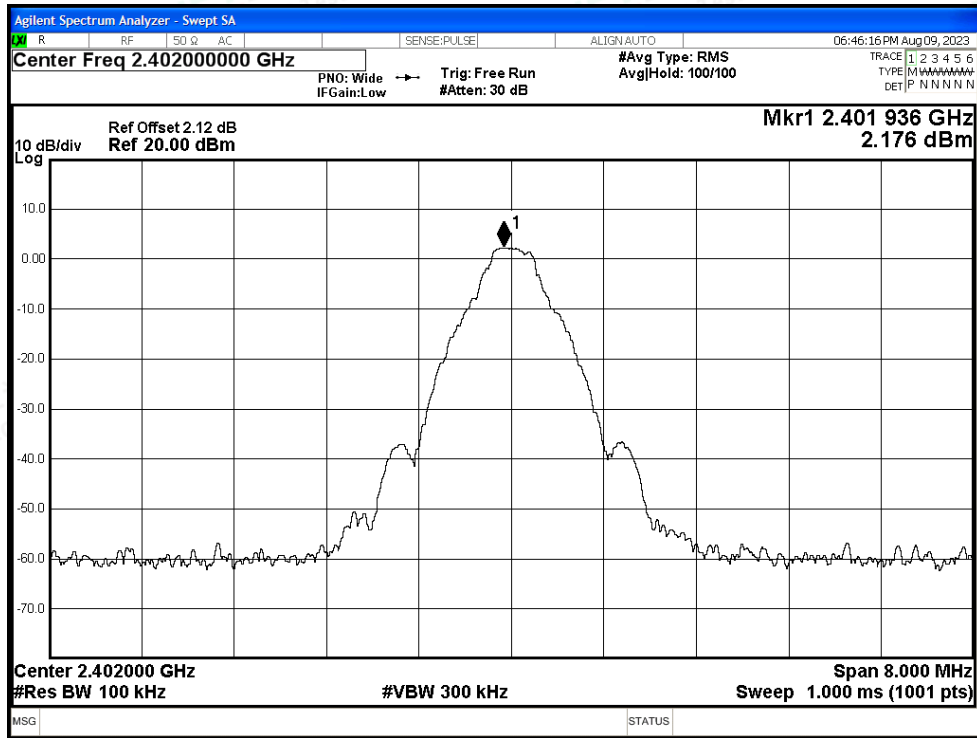
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-58.35	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-59.57	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.44	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-59.85	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.21	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.76	-20	Pass



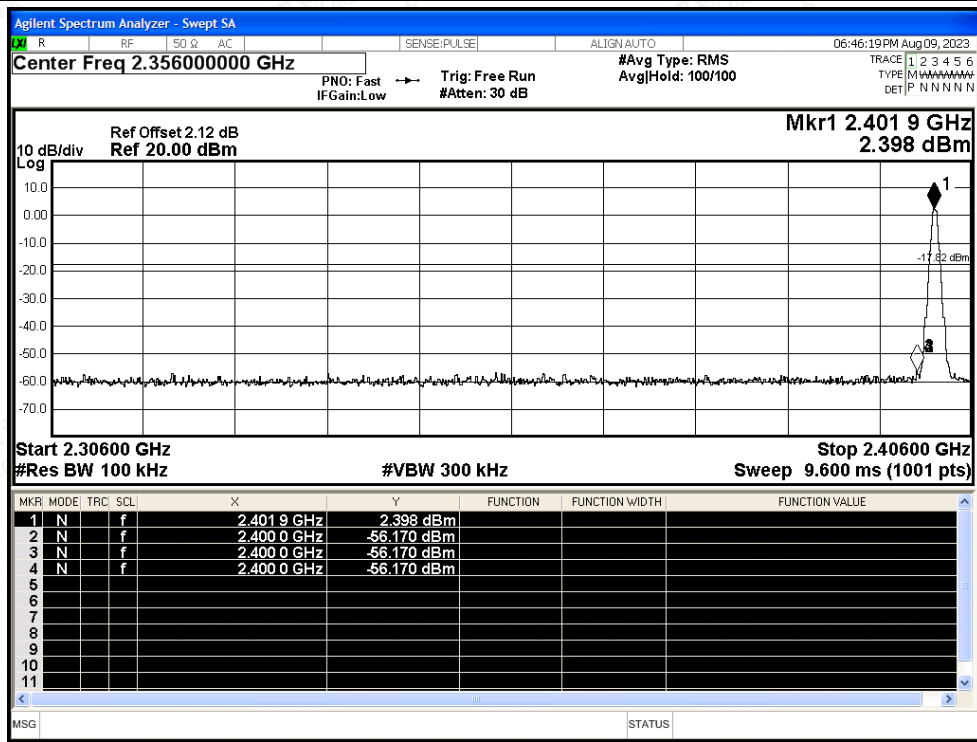


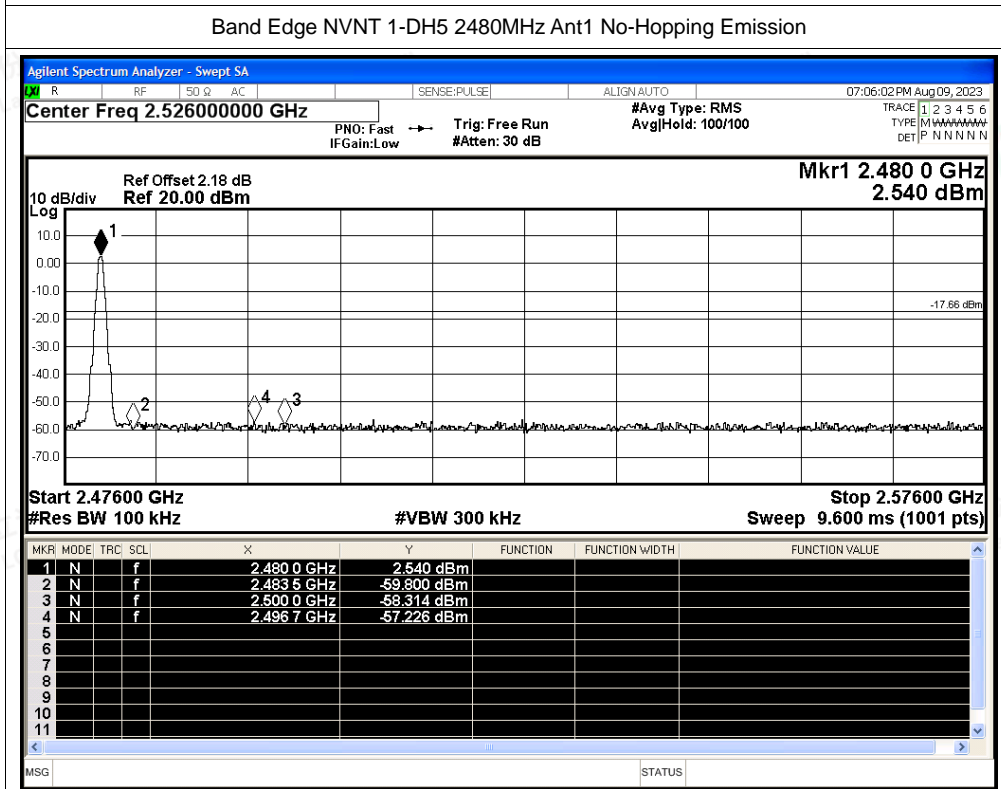
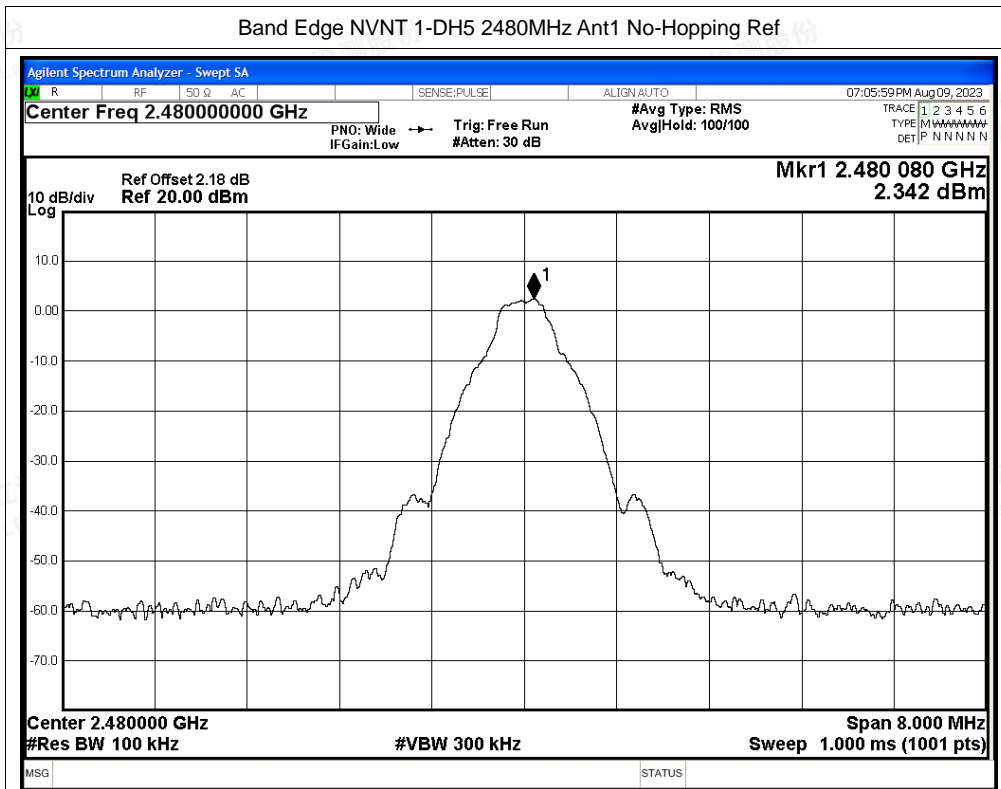
Test Graphs

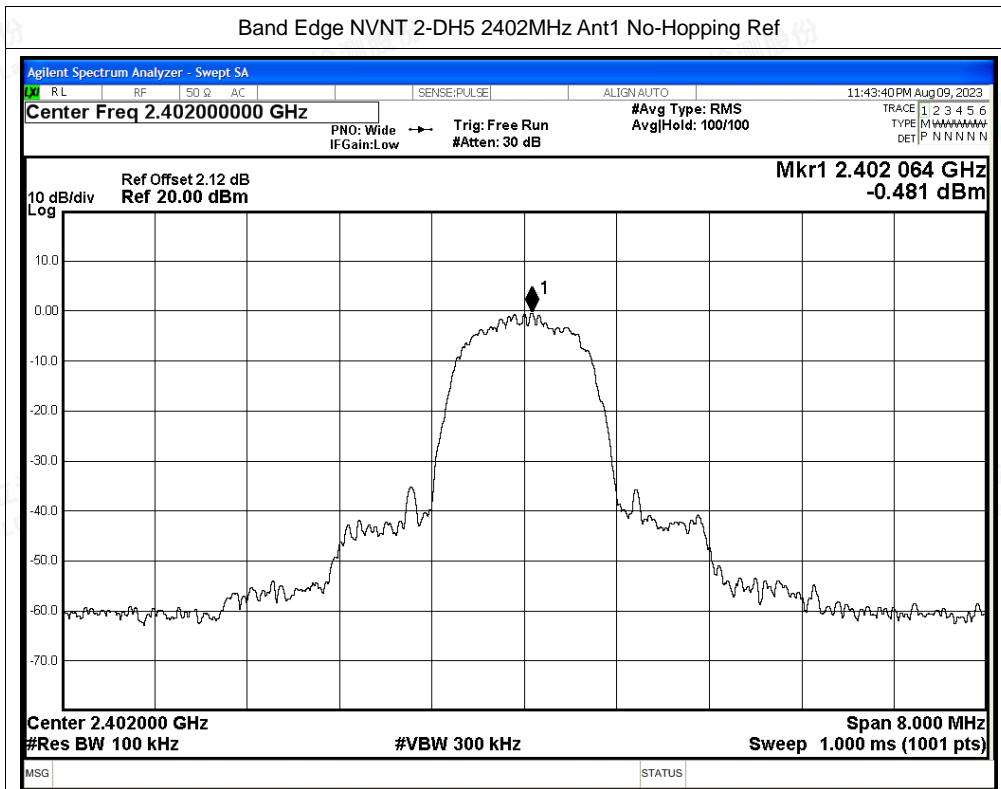
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



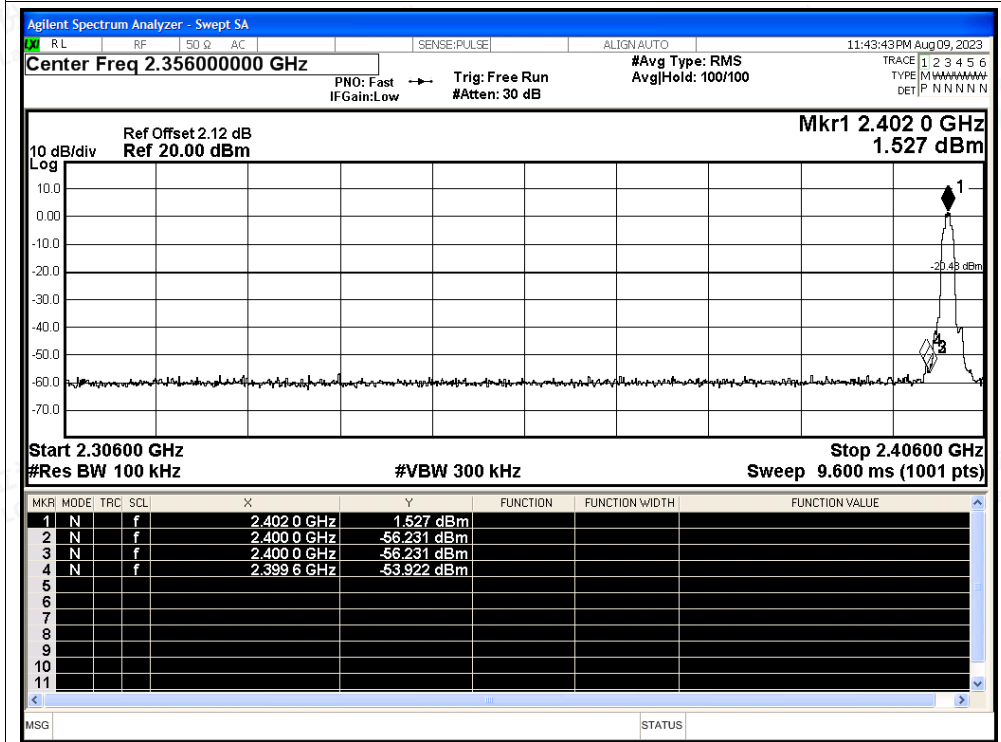
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission





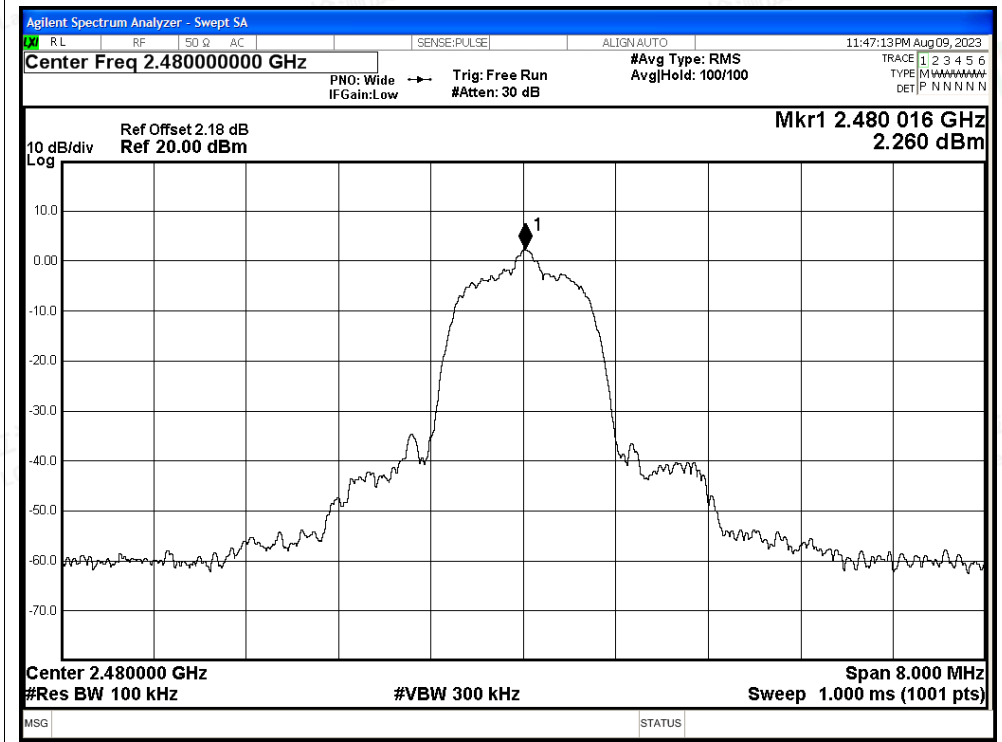


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

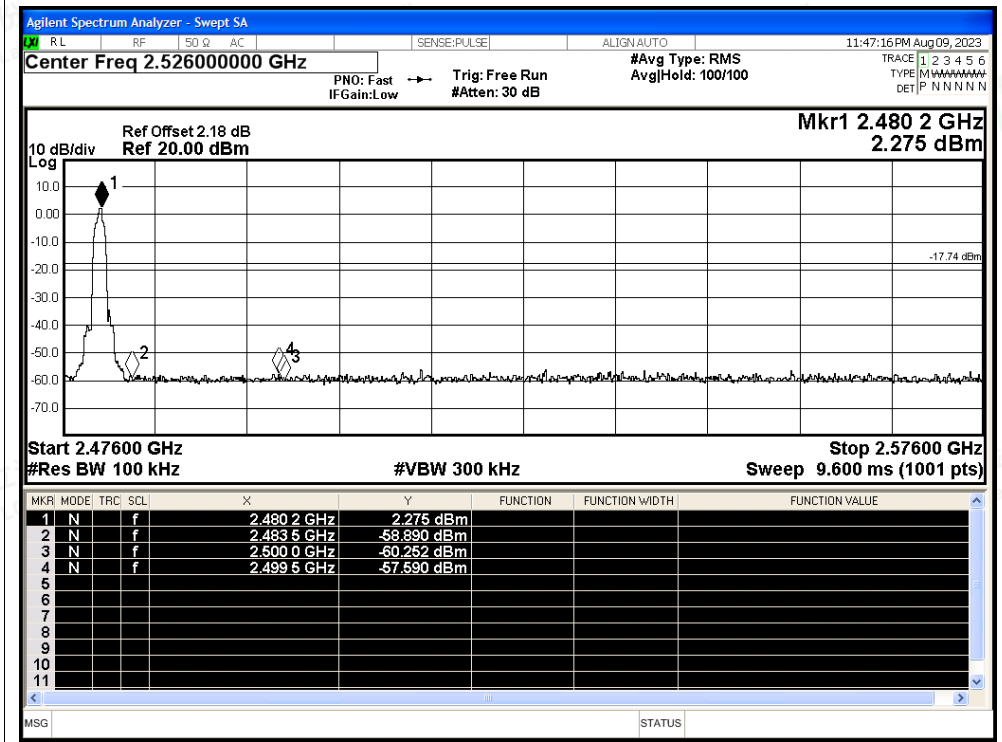




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

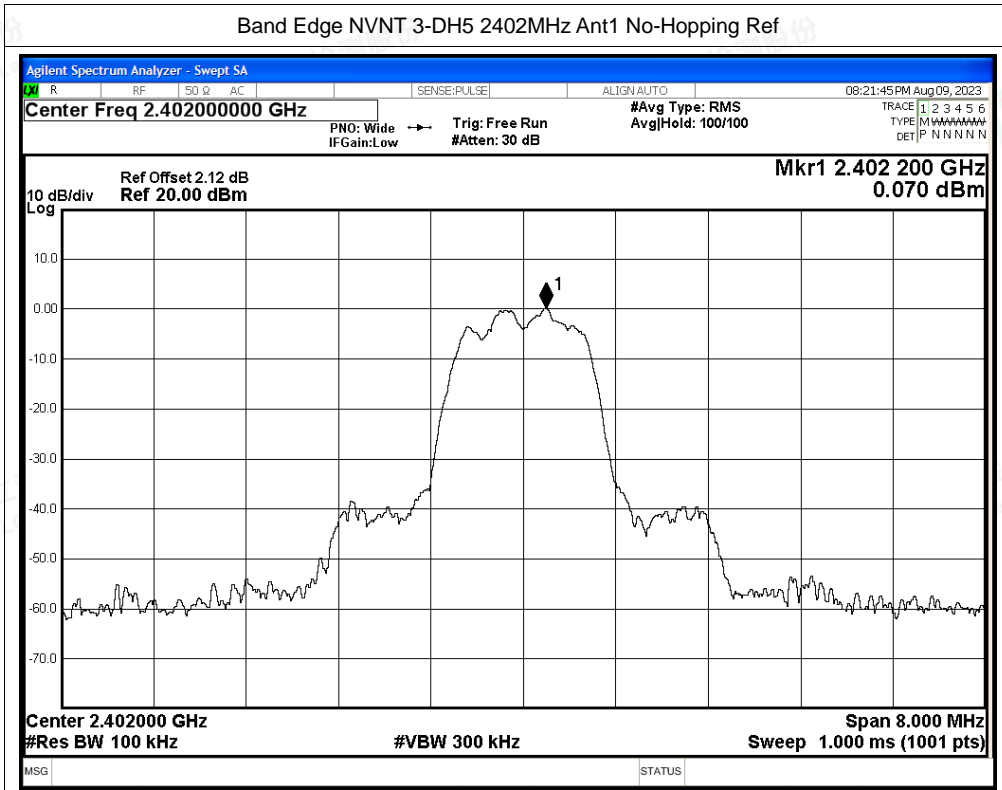


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

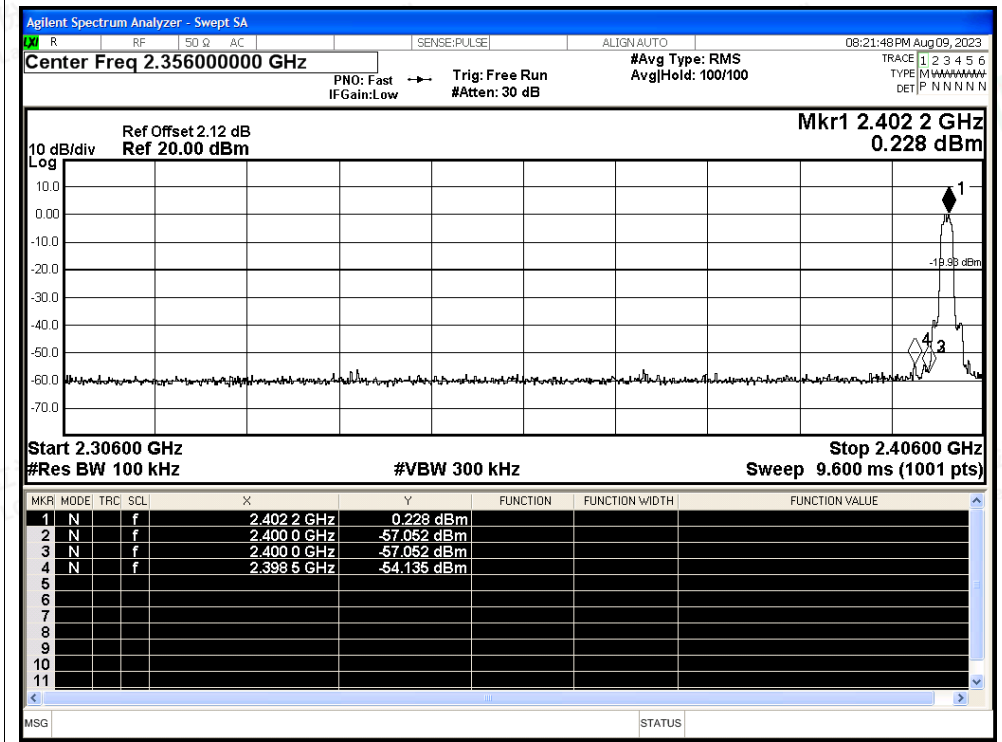




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

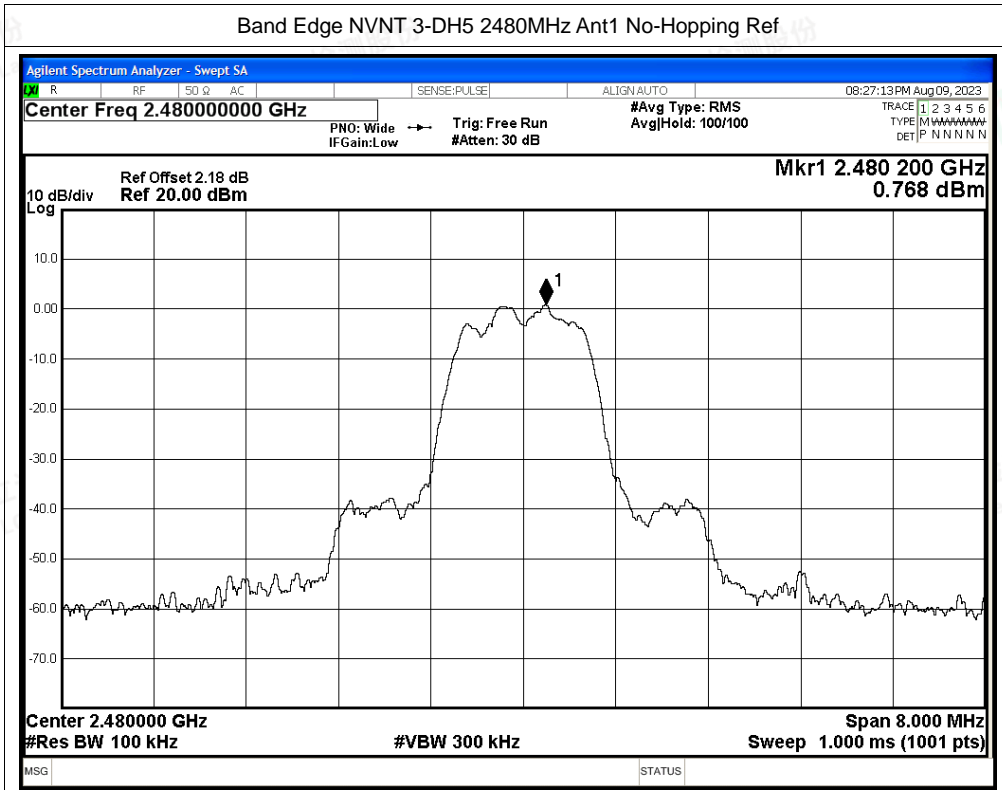


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

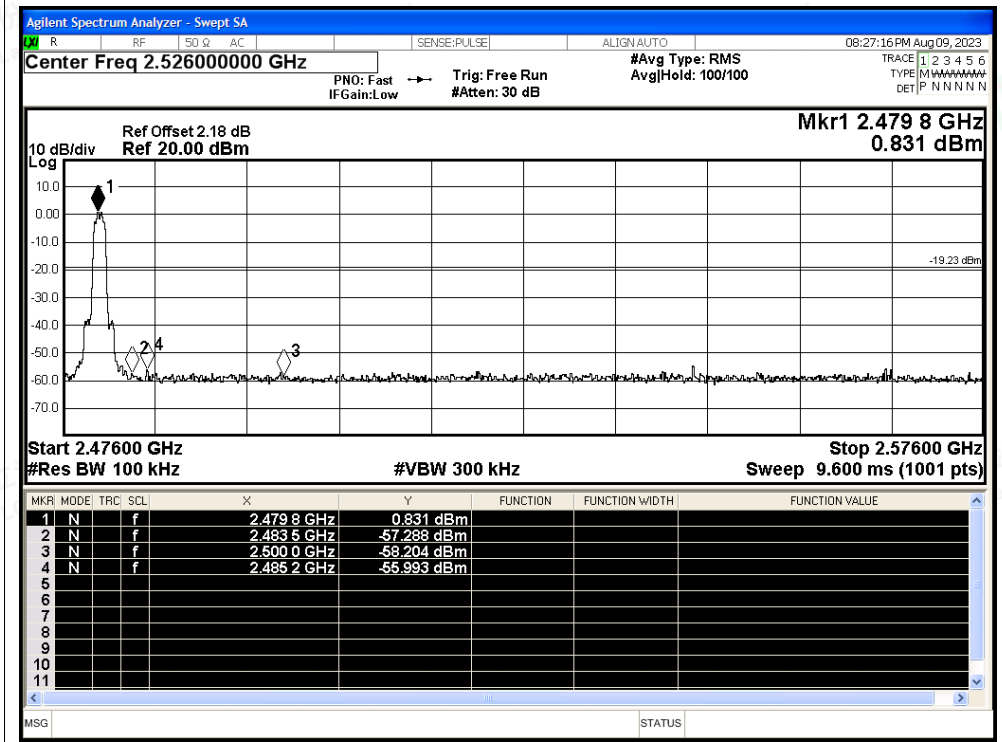




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

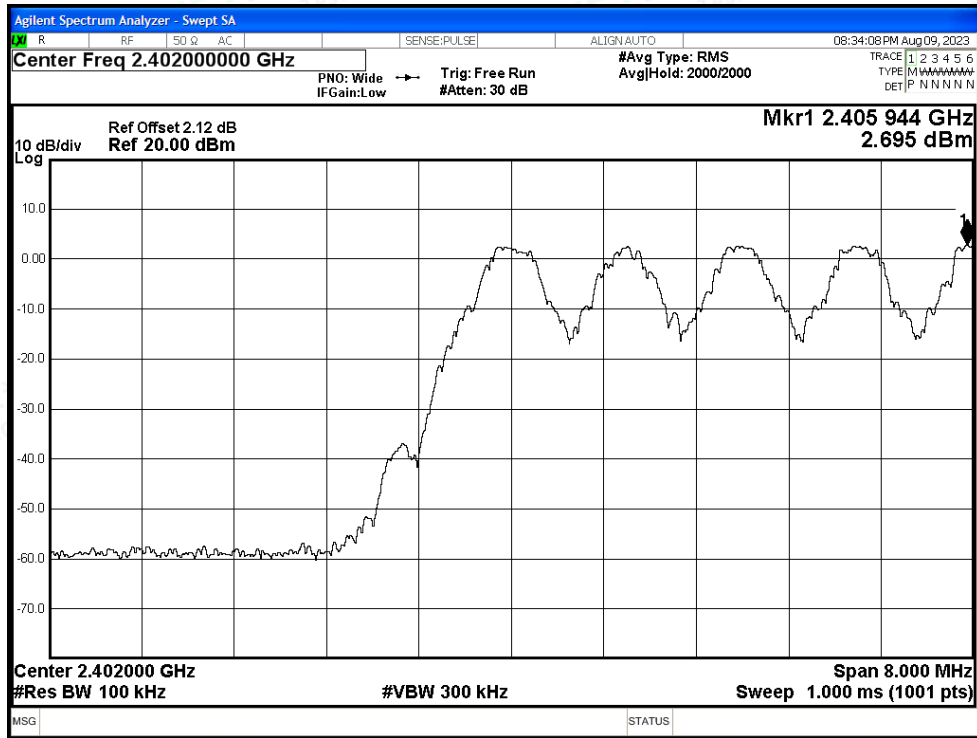
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-58.06	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.06	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-60.16	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-59.35	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-59.72	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-59.06	-20	Pass



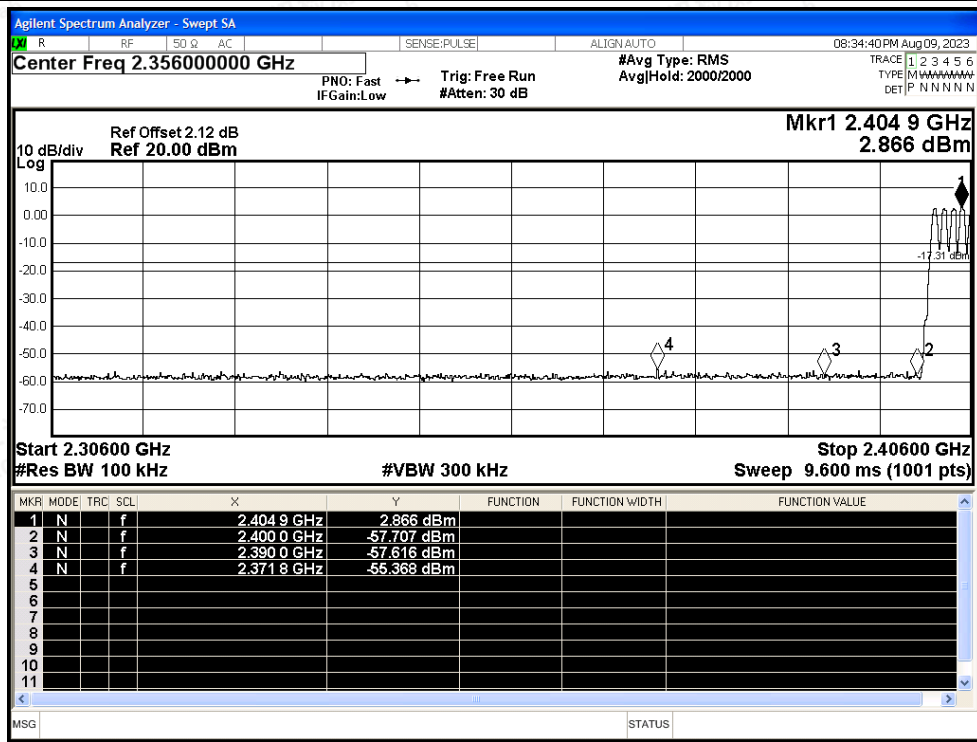


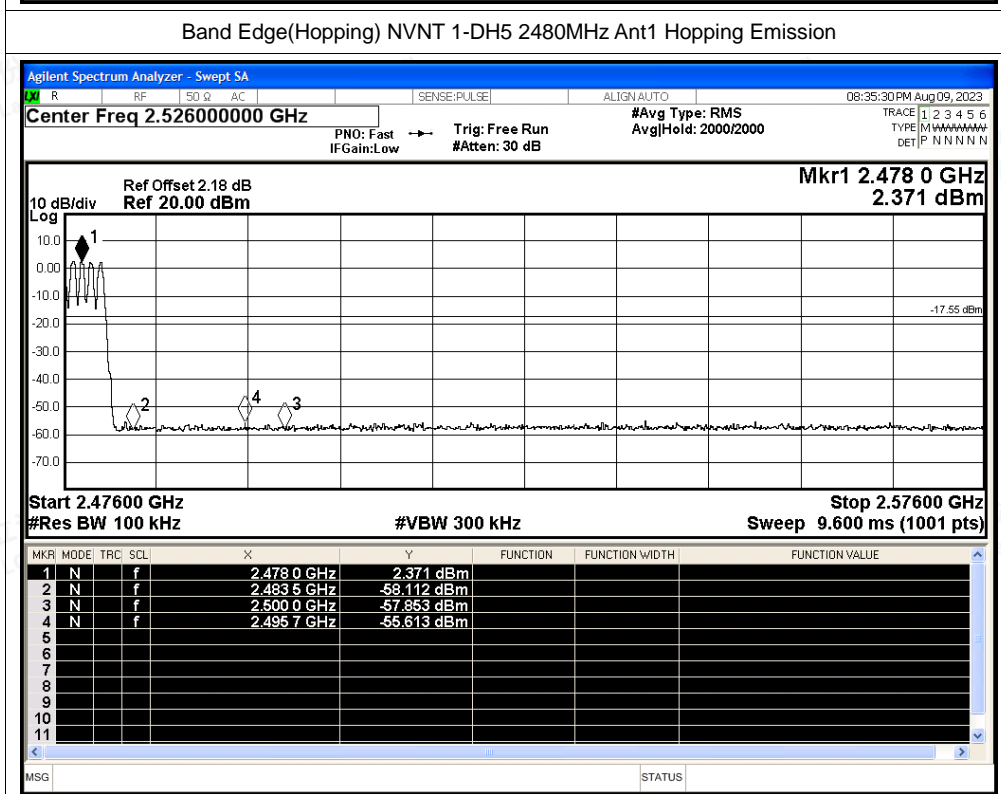
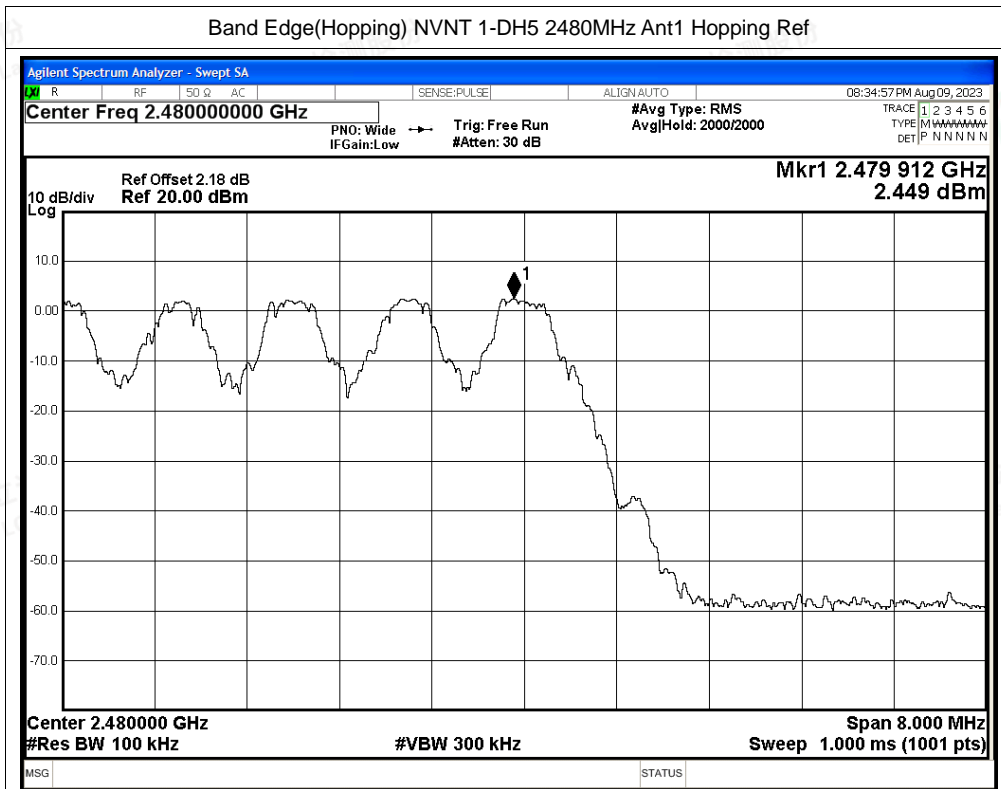
Test Graphs

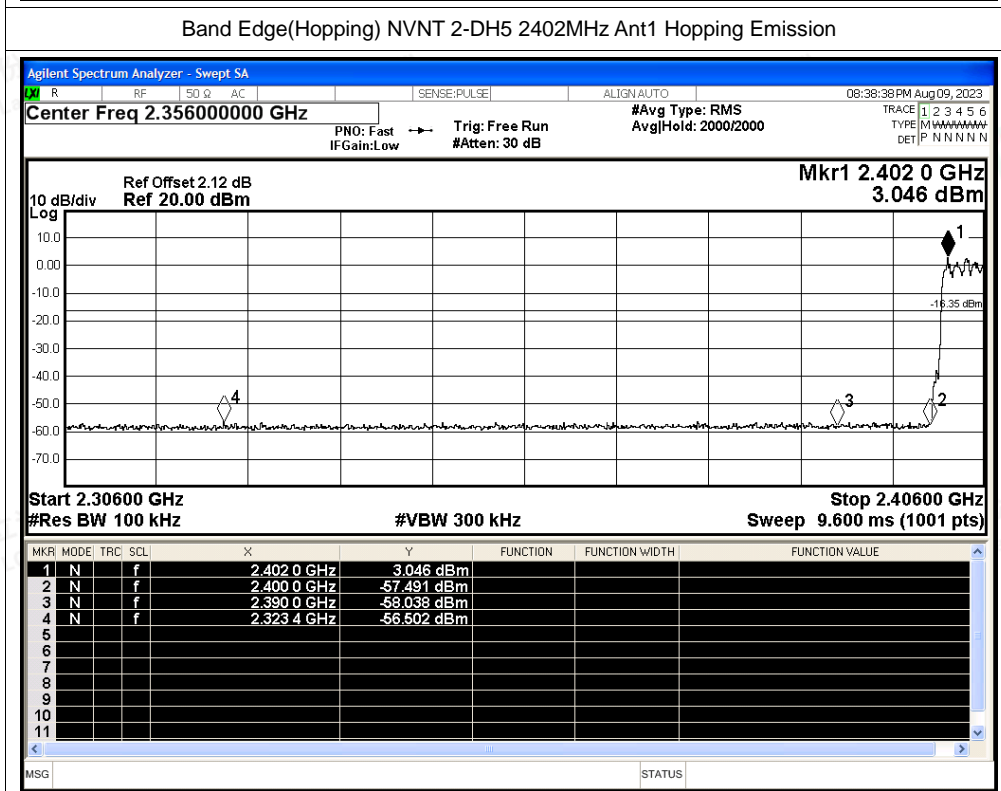
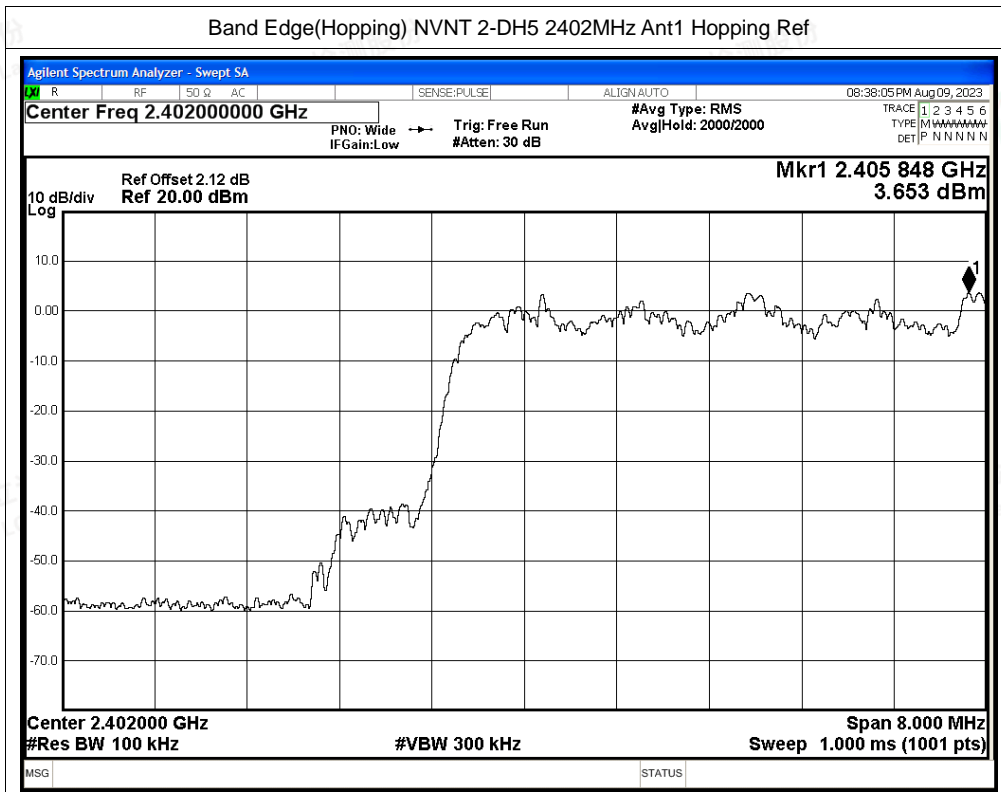
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



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

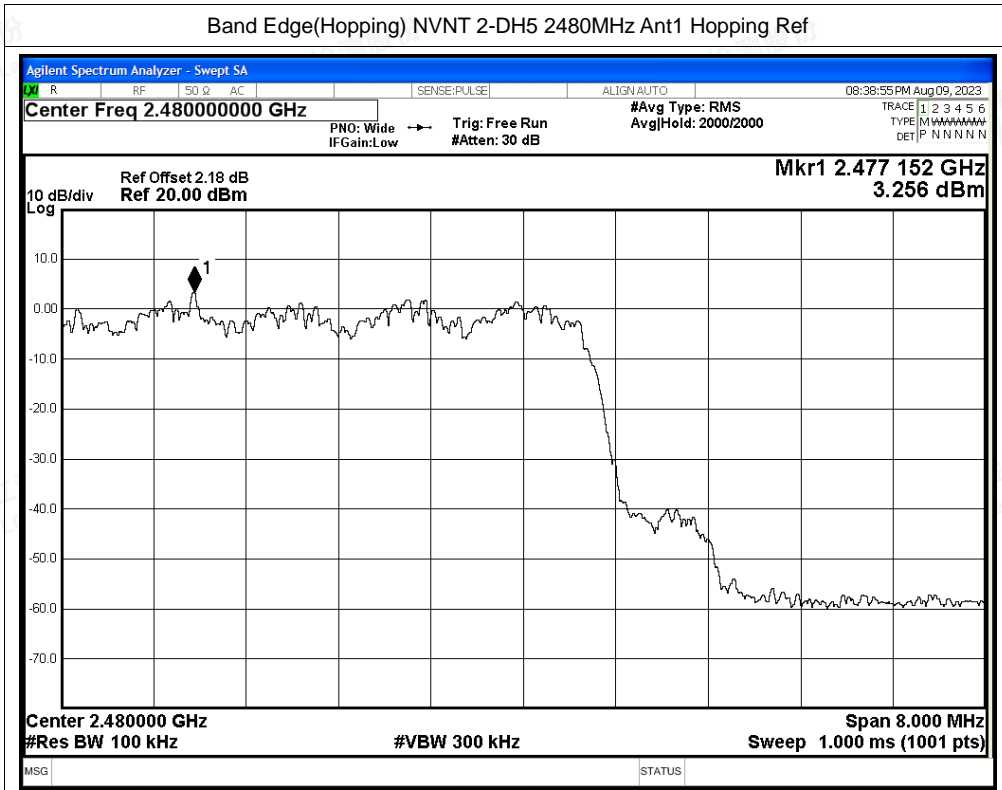




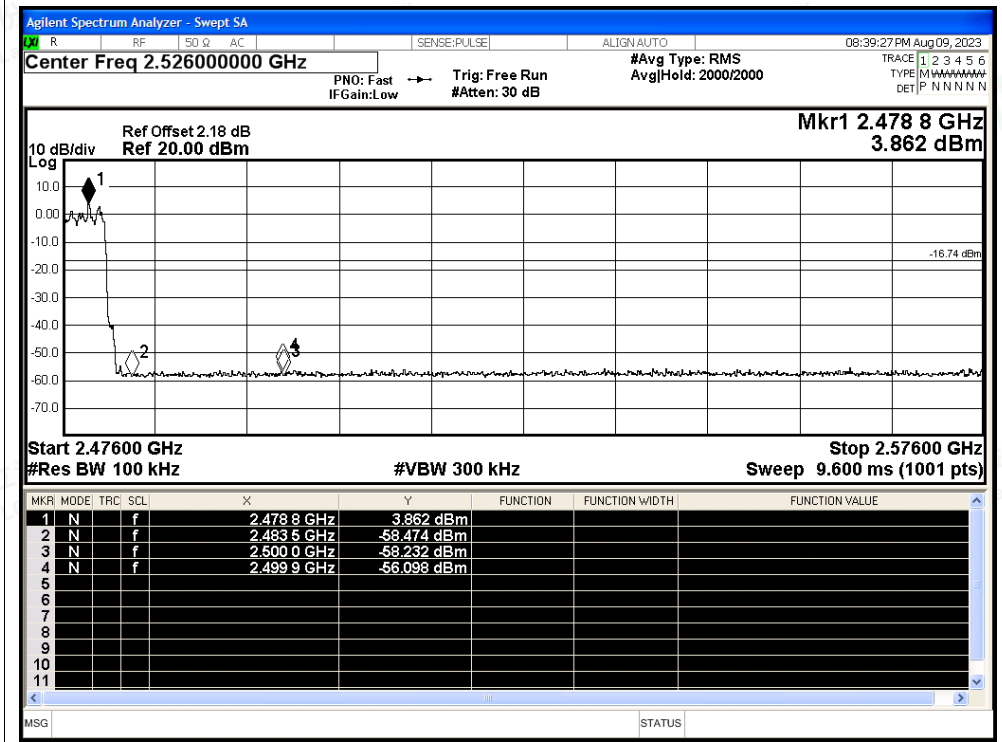


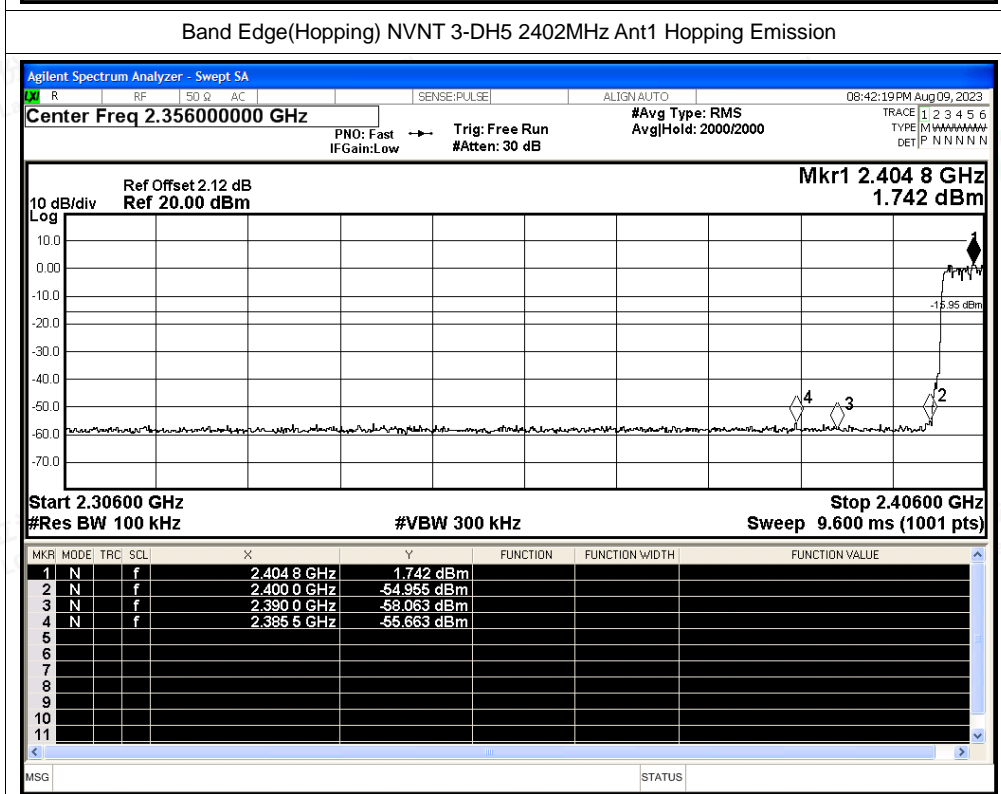
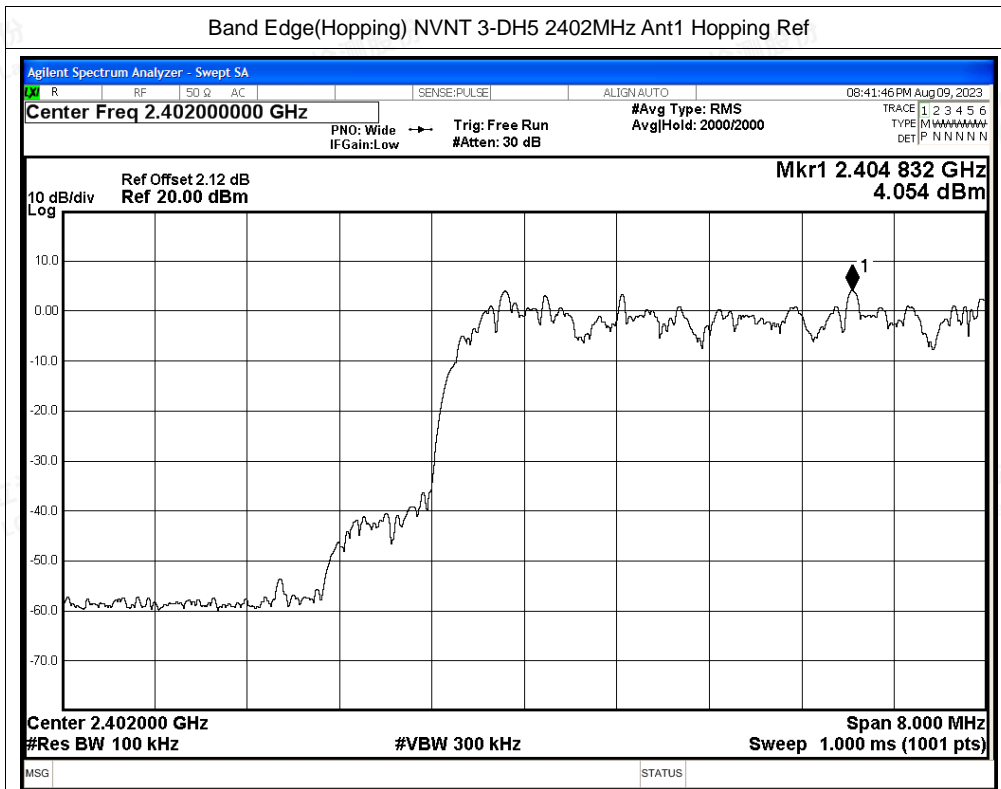


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



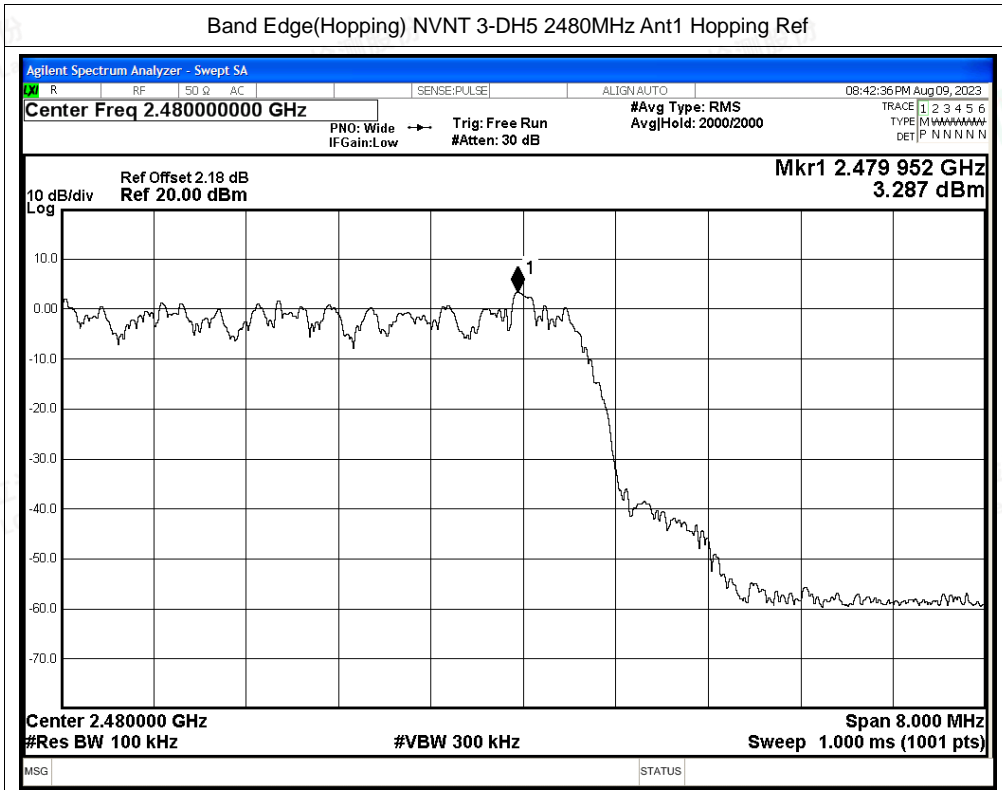
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



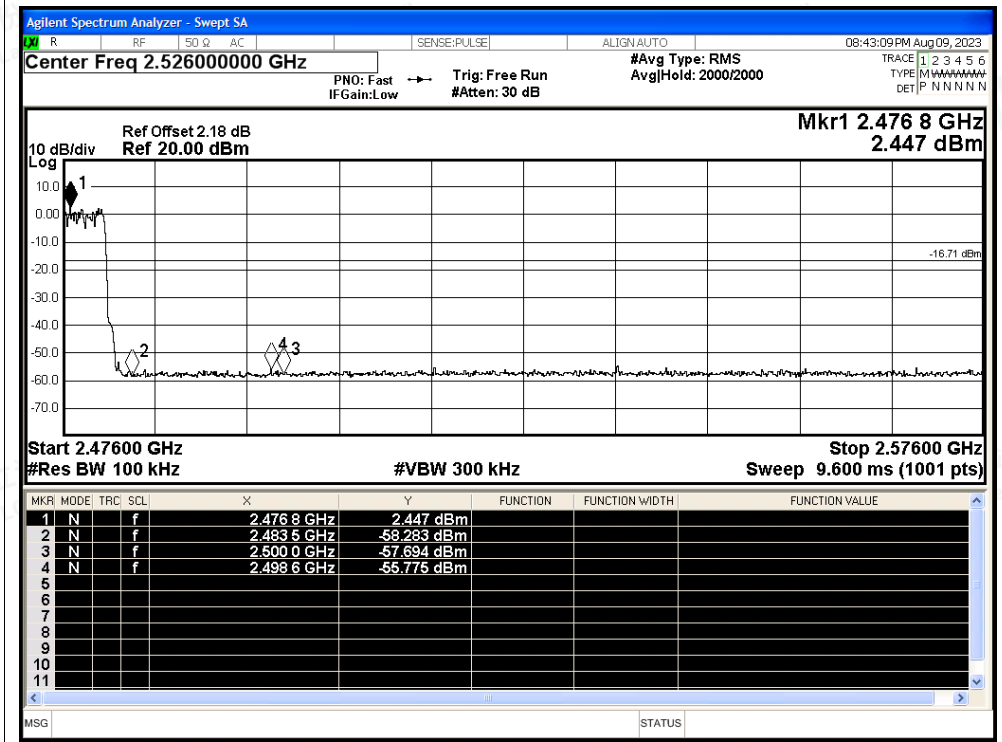




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission





A.7 Conducted RF Spurious Emission

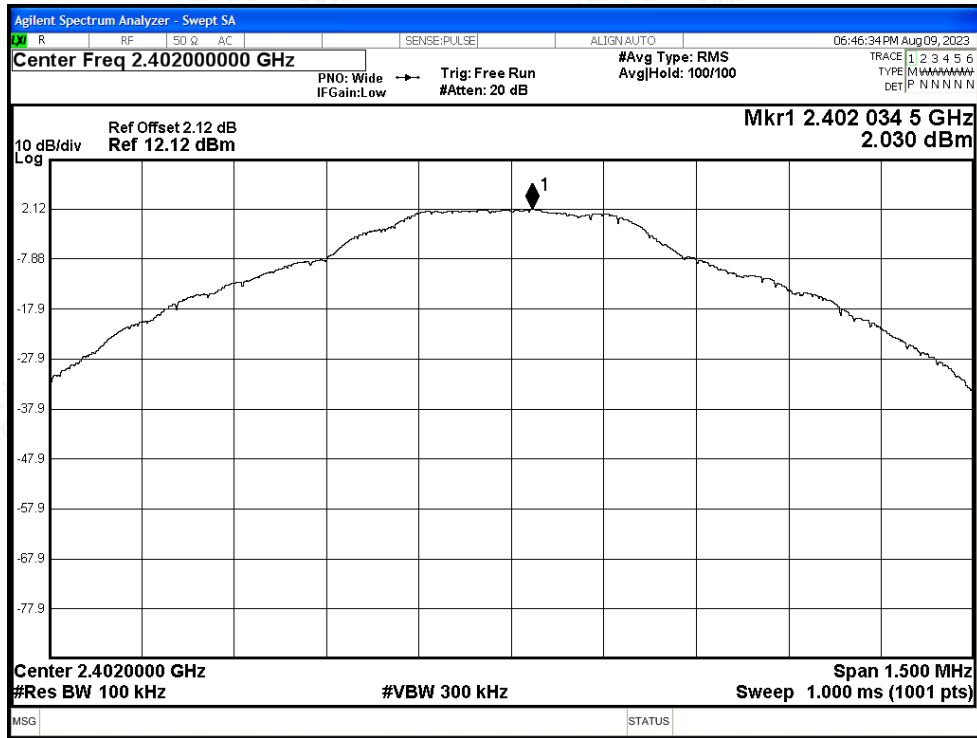
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-57.64	-20	Pass
NVNT	1-DH5	2441	Ant1	-57.26	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.64	-20	Pass
NVNT	2-DH5	2402	Ant1	-57.62	-20	Pass
NVNT	2-DH5	2441	Ant1	-57.46	-20	Pass
NVNT	2-DH5	2480	Ant1	-57.83	-20	Pass
NVNT	3-DH5	2402	Ant1	-55.92	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.39	-20	Pass
NVNT	3-DH5	2480	Ant1	-55.55	-20	Pass



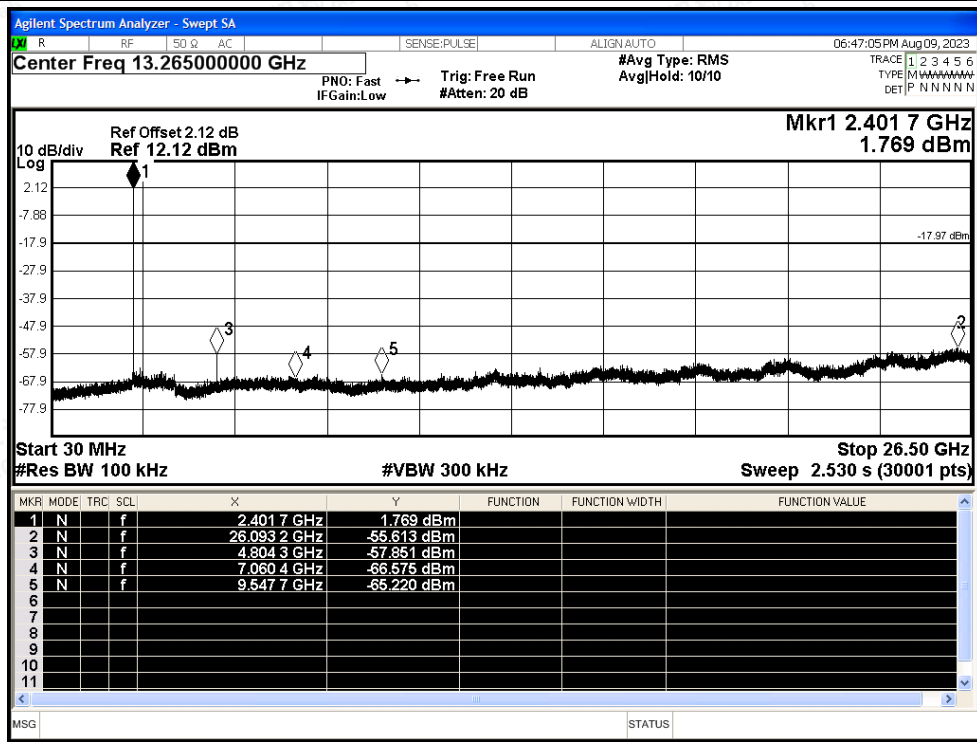


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

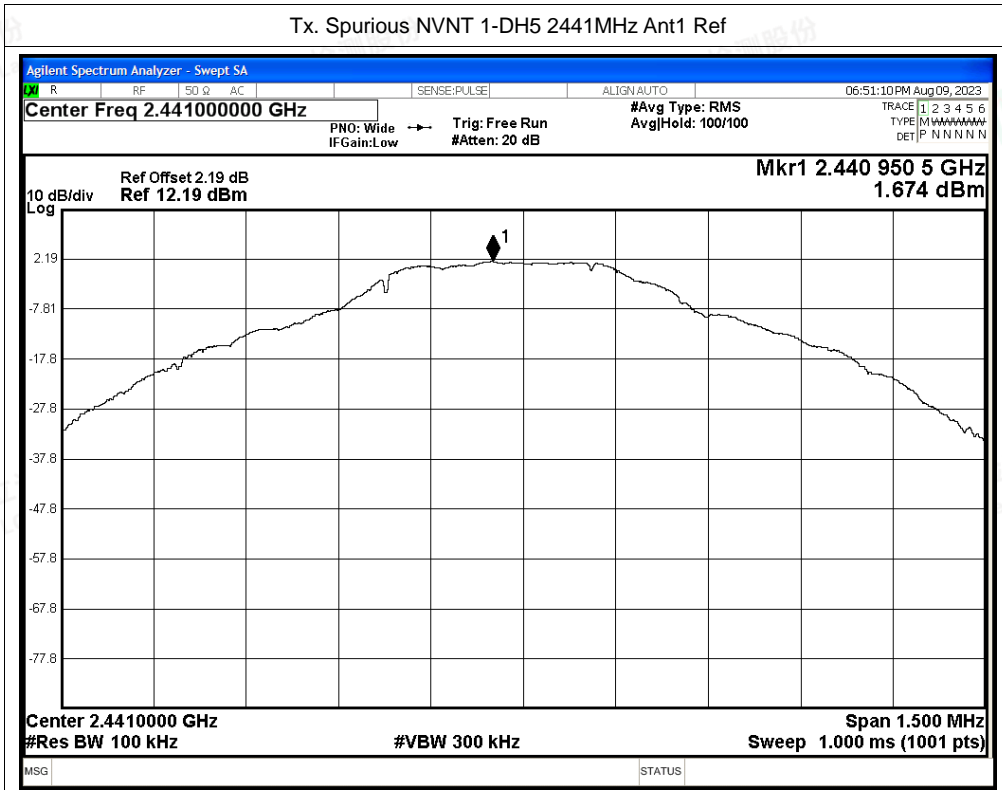


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

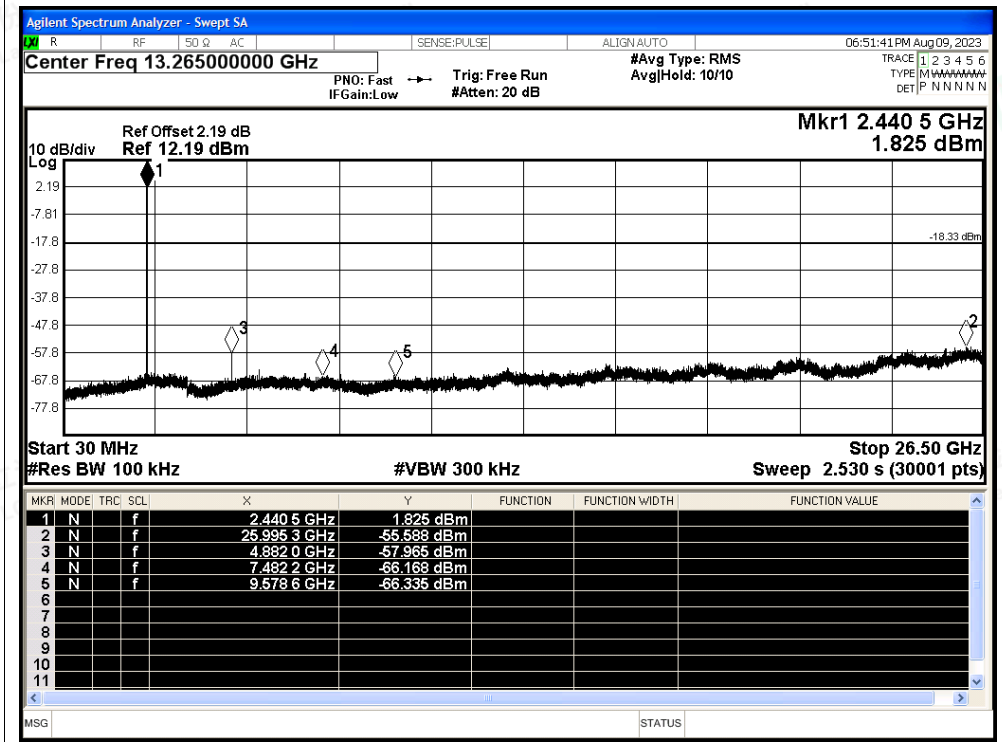




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

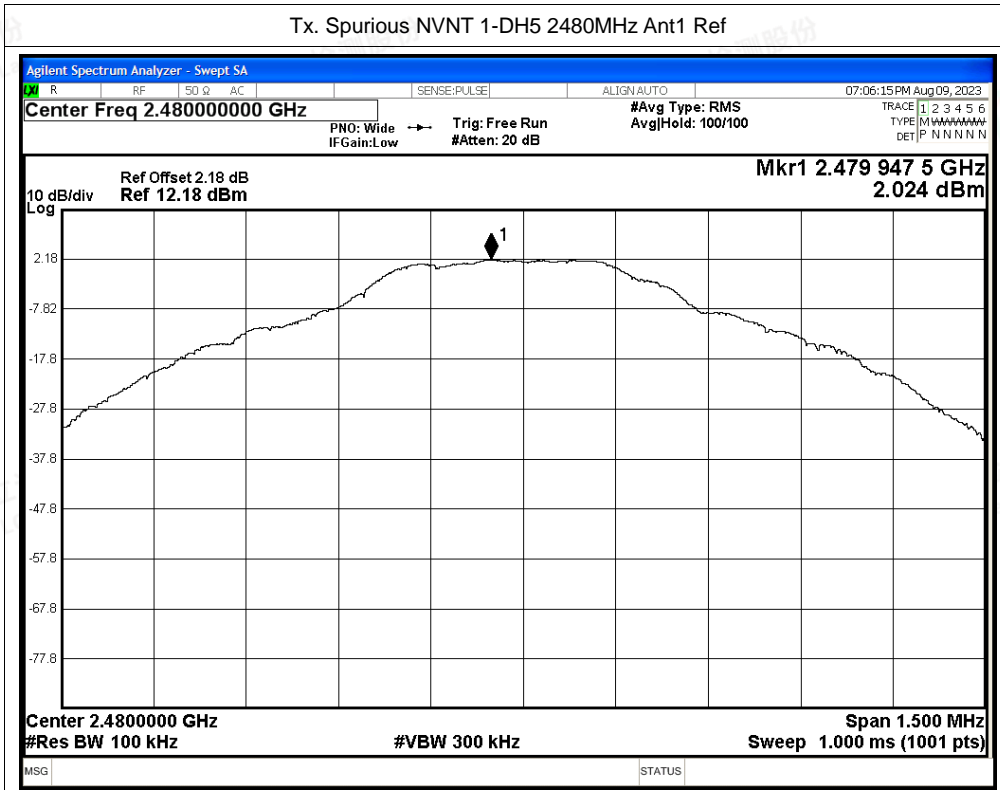


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

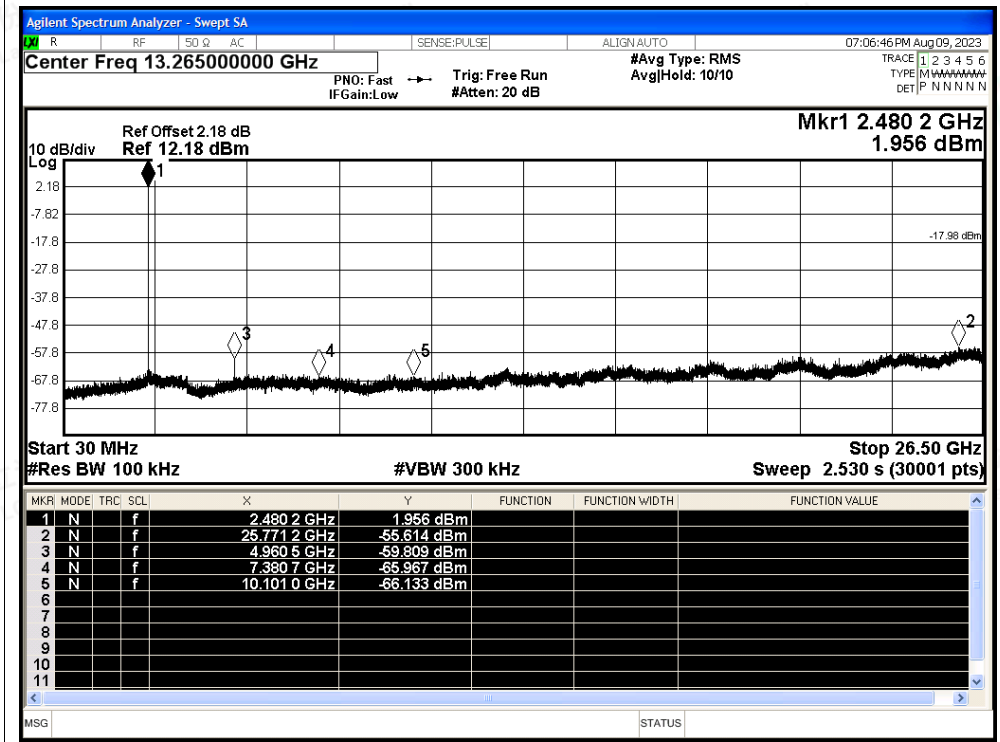




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

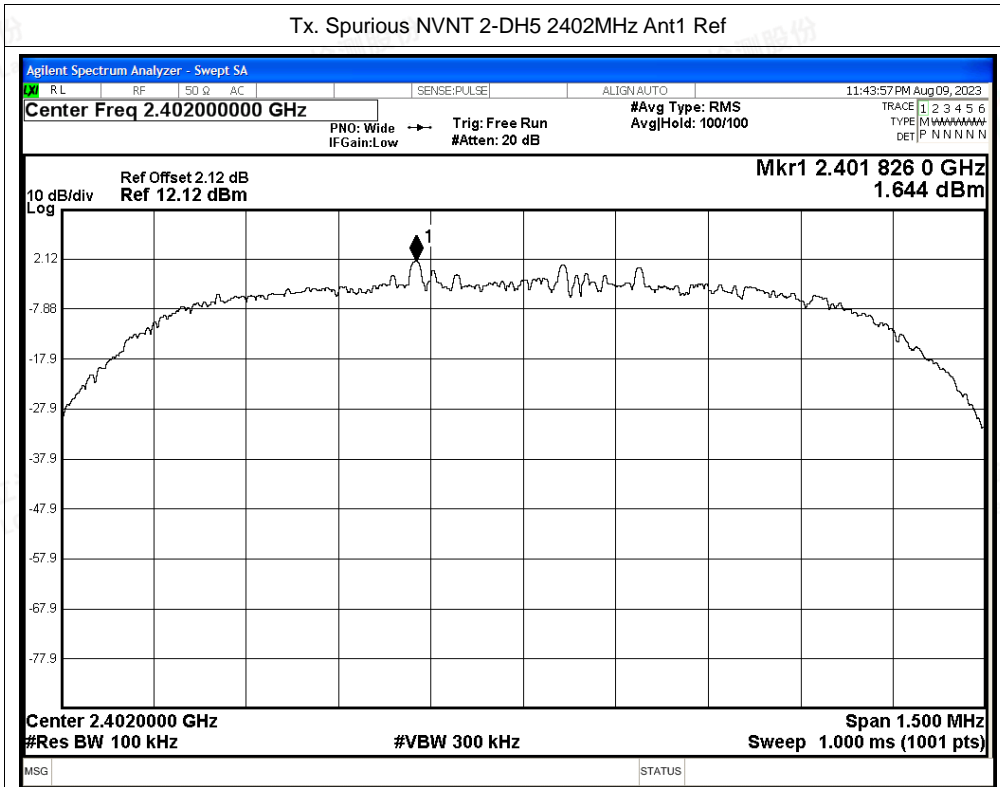


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

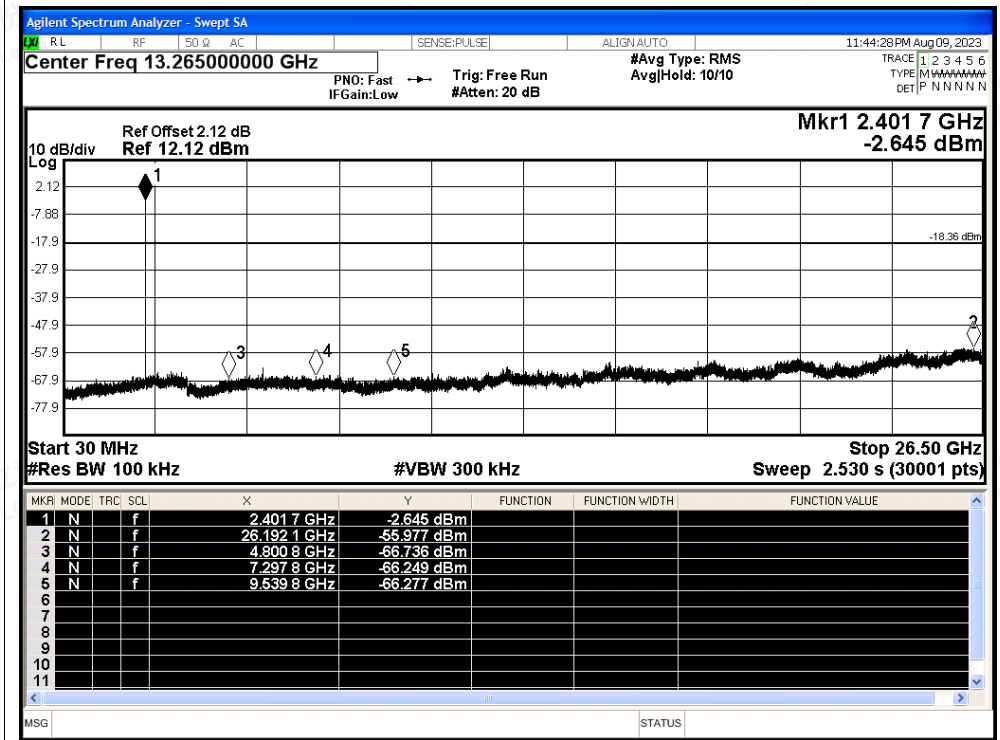




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

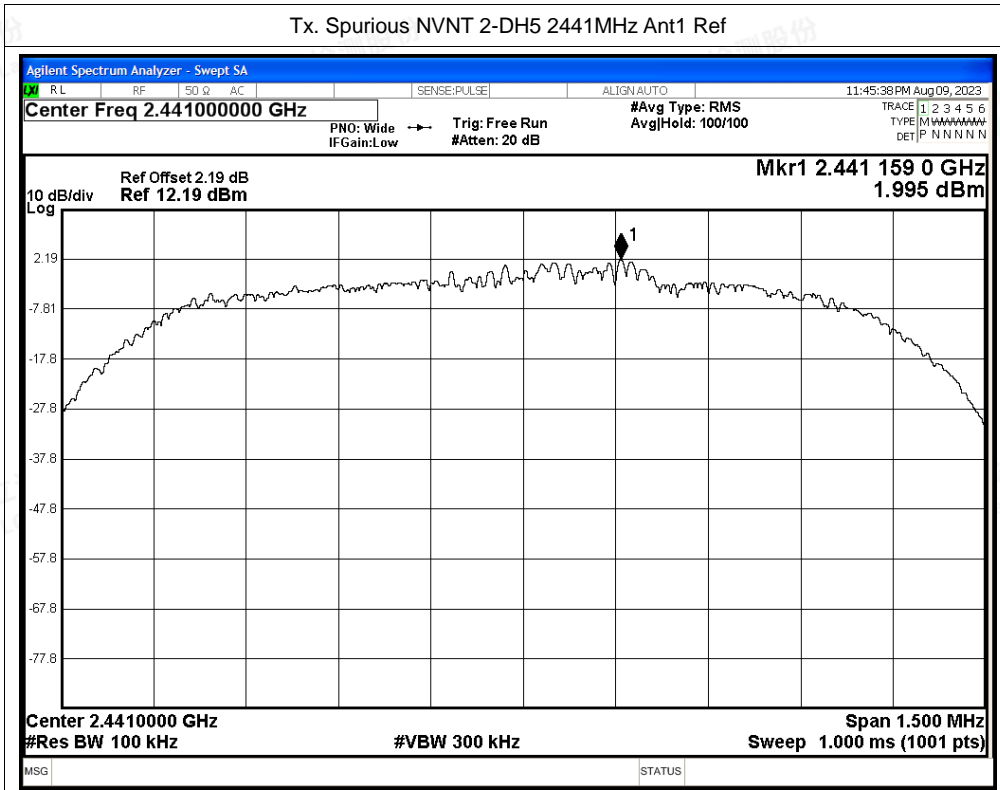


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

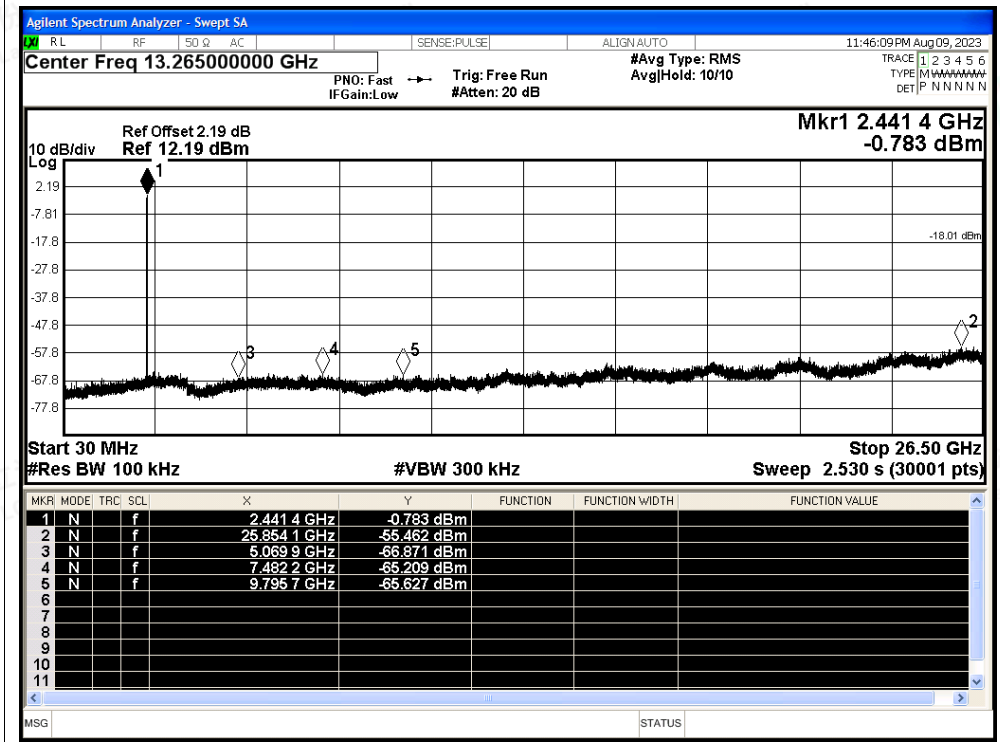




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

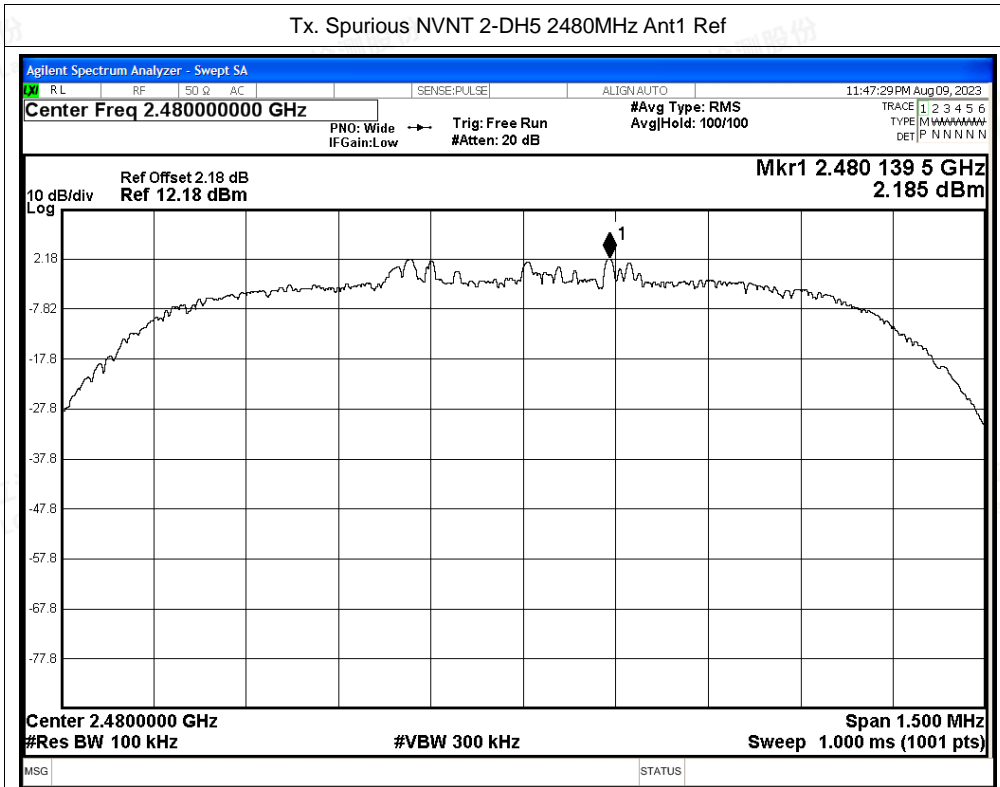


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

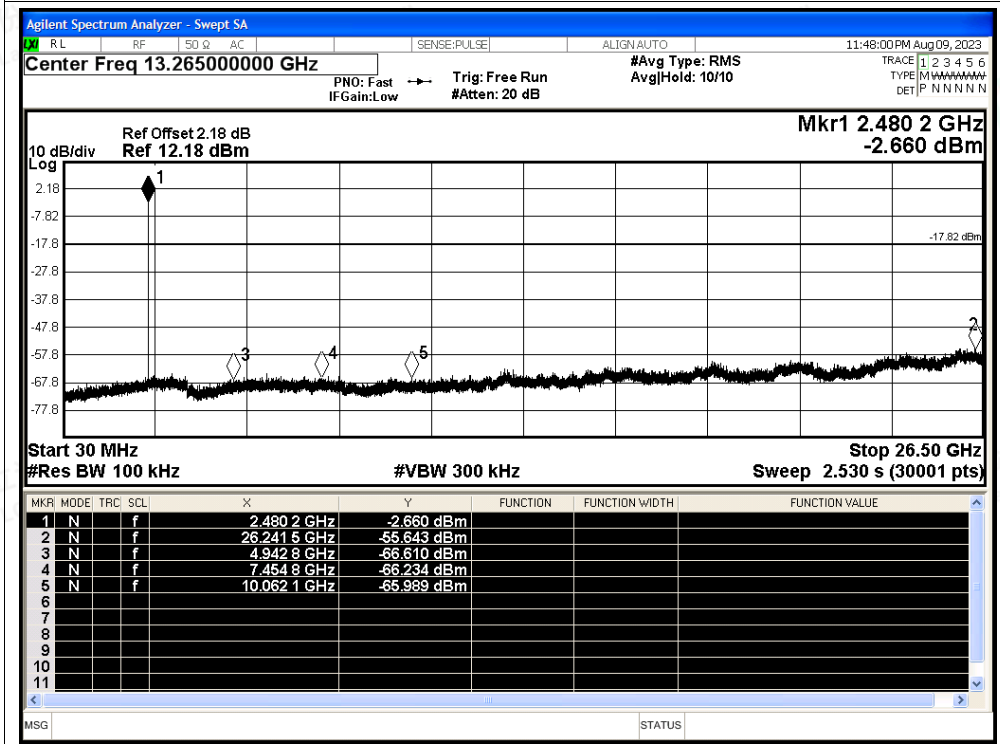




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

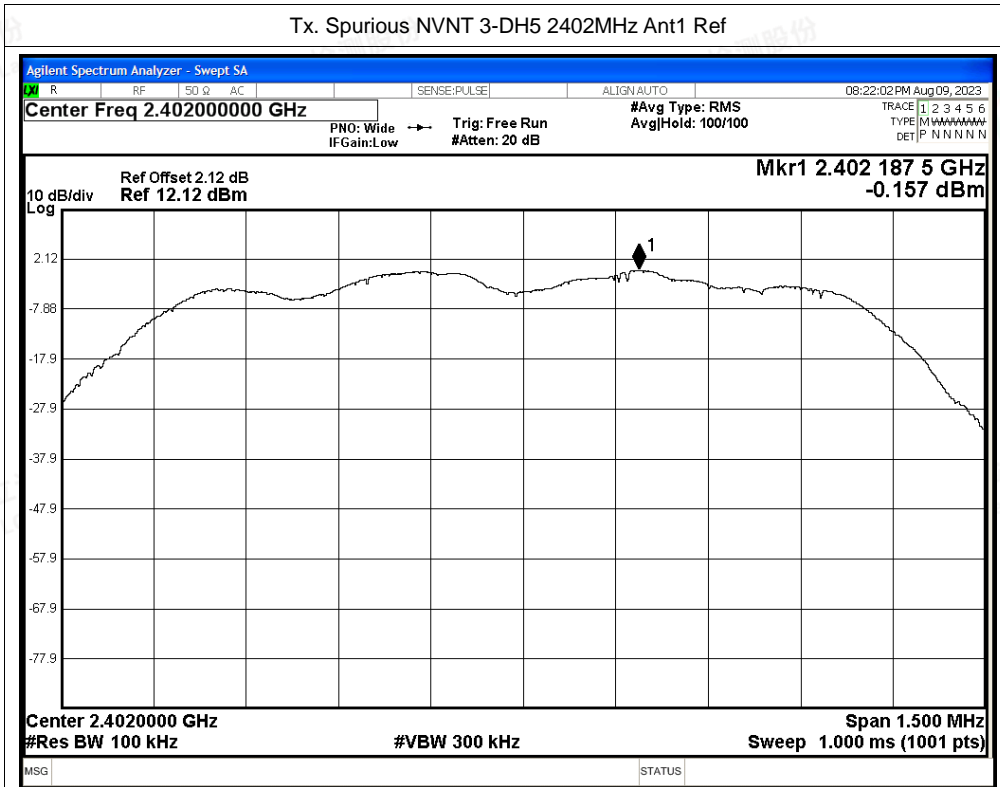


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

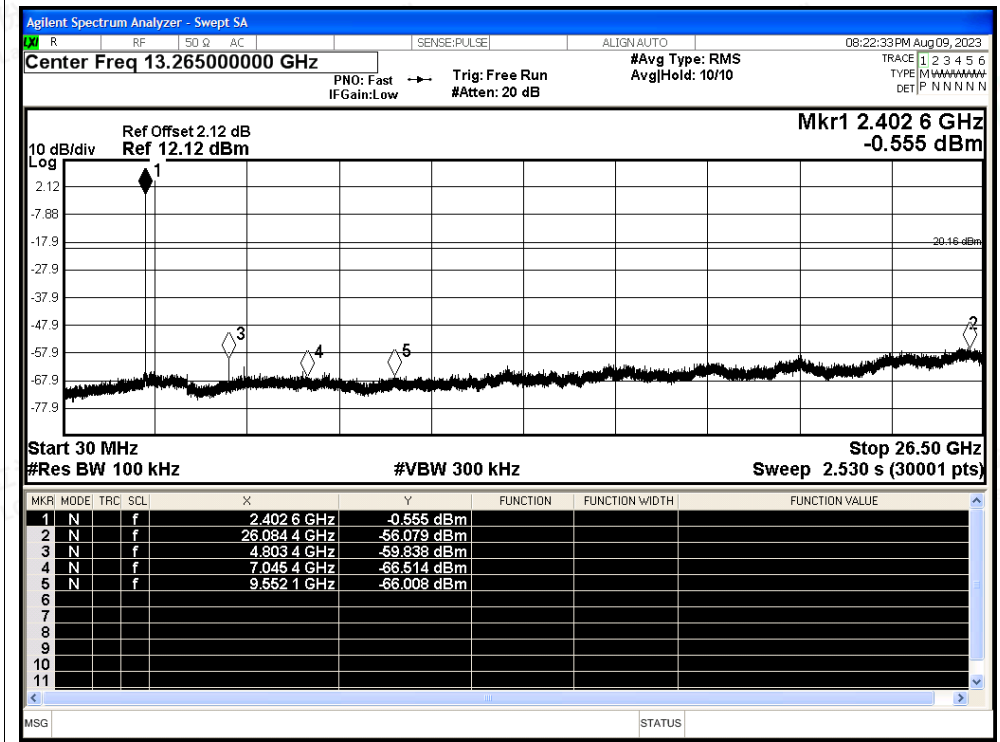




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

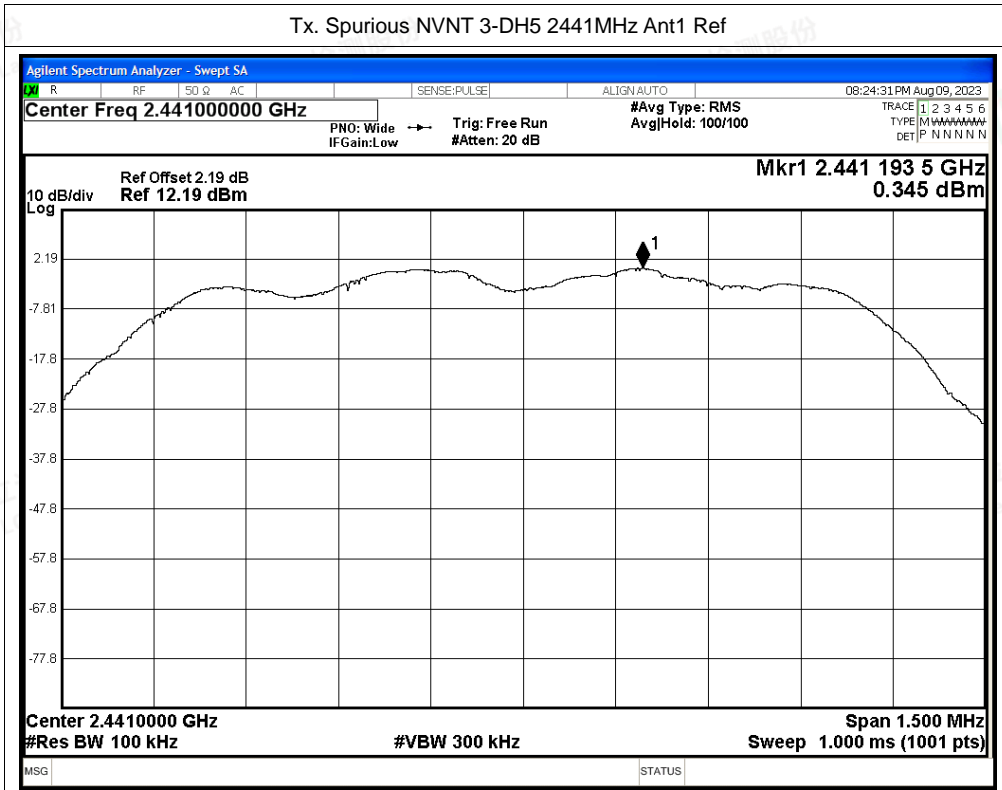


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

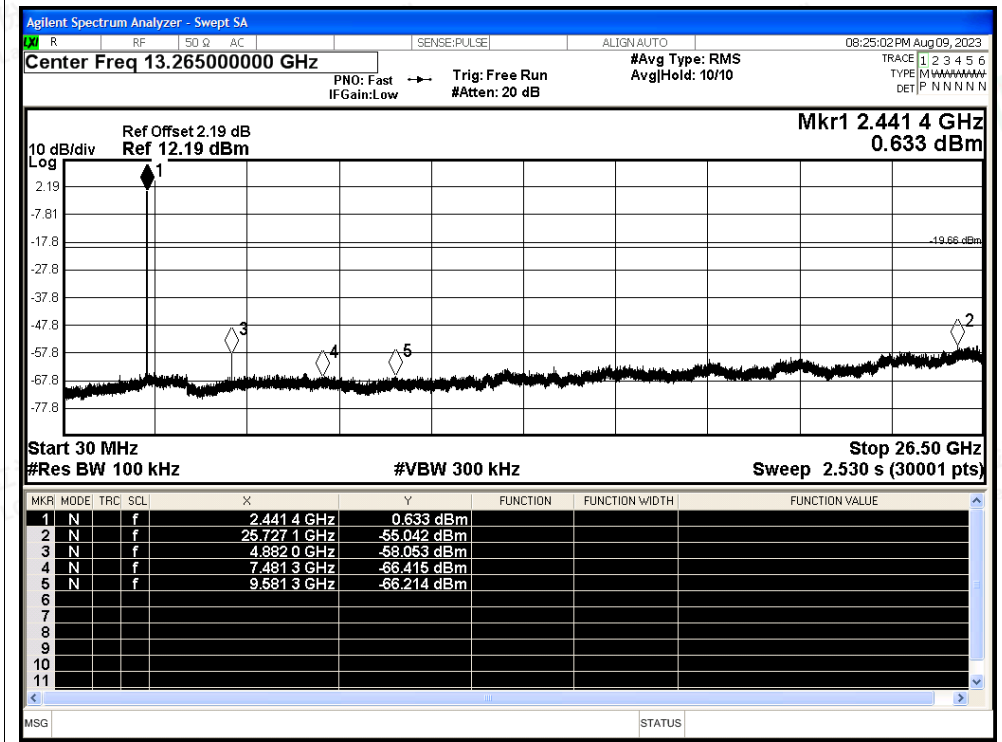




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

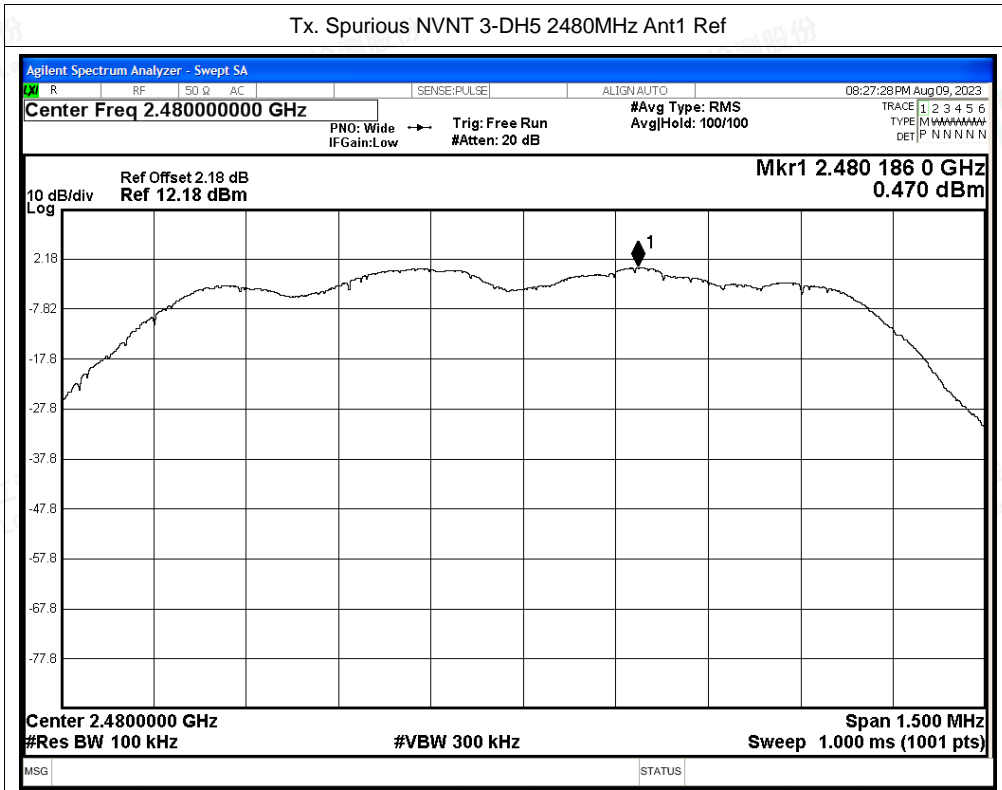


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

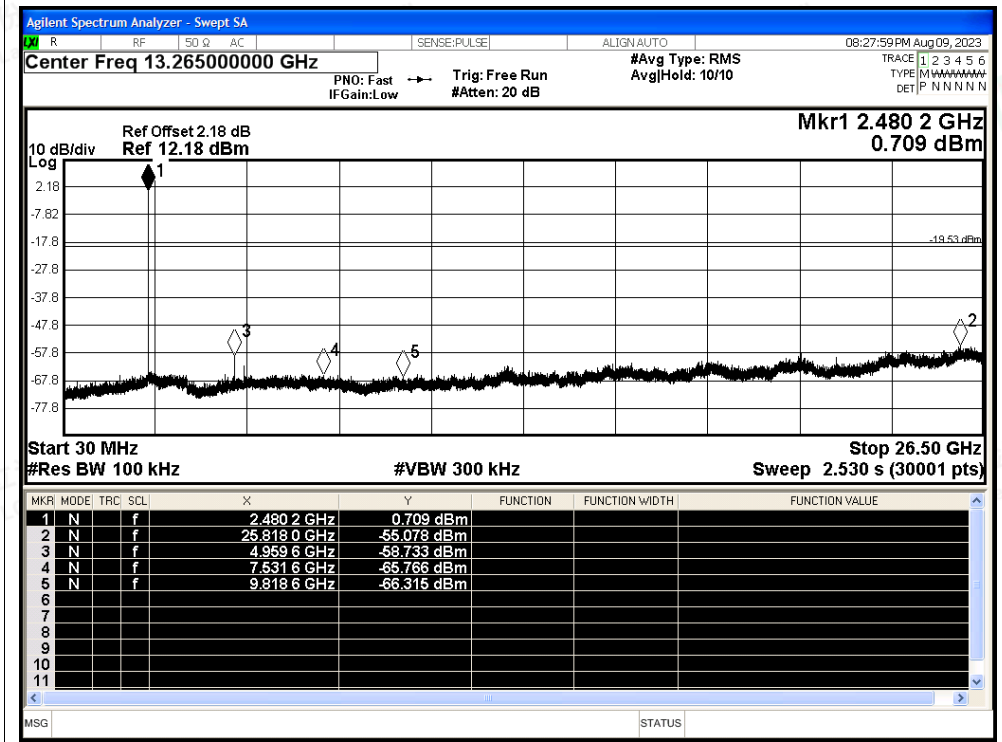




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

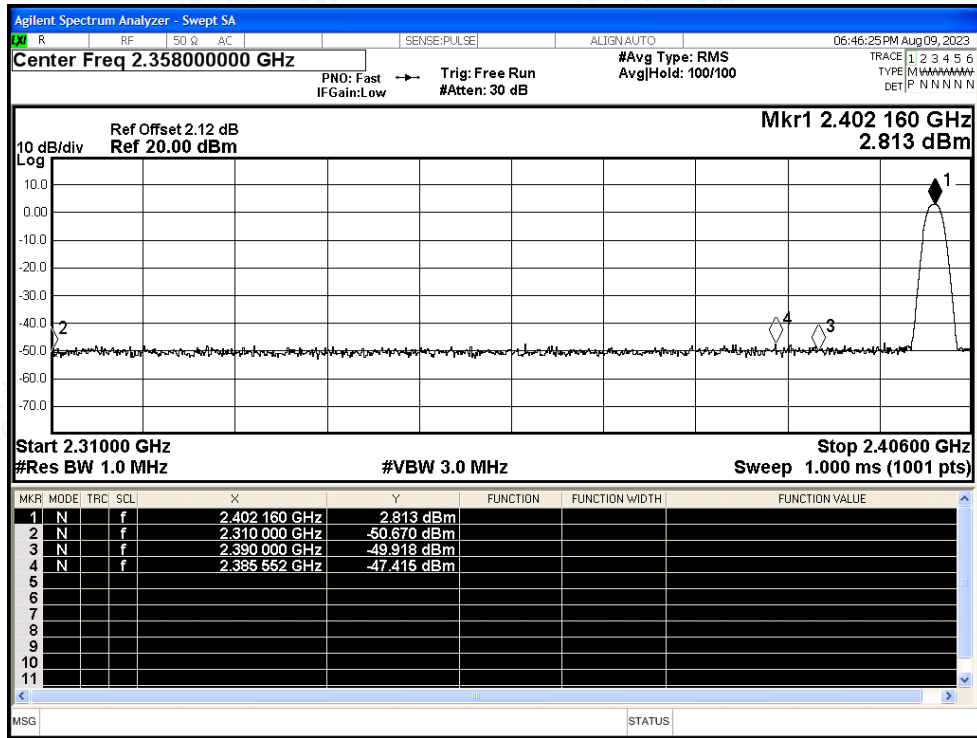
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.67	2	46.59	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.97	2	39.29	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.552	-47.42	2	49.84	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2382.576	-57.22	2	40.04	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.92	2	47.34	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.44	2	39.82	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.78	2	46.48	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-53.89	2	43.37	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2487.064	-45.94	2	51.32	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-53.89	2	43.37	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-47.78	2	49.48	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-56.8	2	40.46	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.77	2	45.49	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.99	2	39.27	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2348.112	-47.6	2	49.66	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2382.192	-57.16	2	40.1	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.47	2	46.79	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.22	2	40.04	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.88	2	47.38	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-54.18	2	43.08	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2494.432	-46.98	2	50.28	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-54.18	2	43.08	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.19	2	47.07	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.13	2	40.13	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.57	2	46.69	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.9	2	39.36	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2327.664	-46.78	2	50.48	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2382.48	-57.22	2	40.04	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.95	2	46.31	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.32	2	39.94	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.91	2	48.35	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-52.29	2	44.97	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2490.136	-46.57	2	50.69	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-52.29	2	44.97	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.31	2	47.95	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-56.97	2	40.29	Average	54	Pass



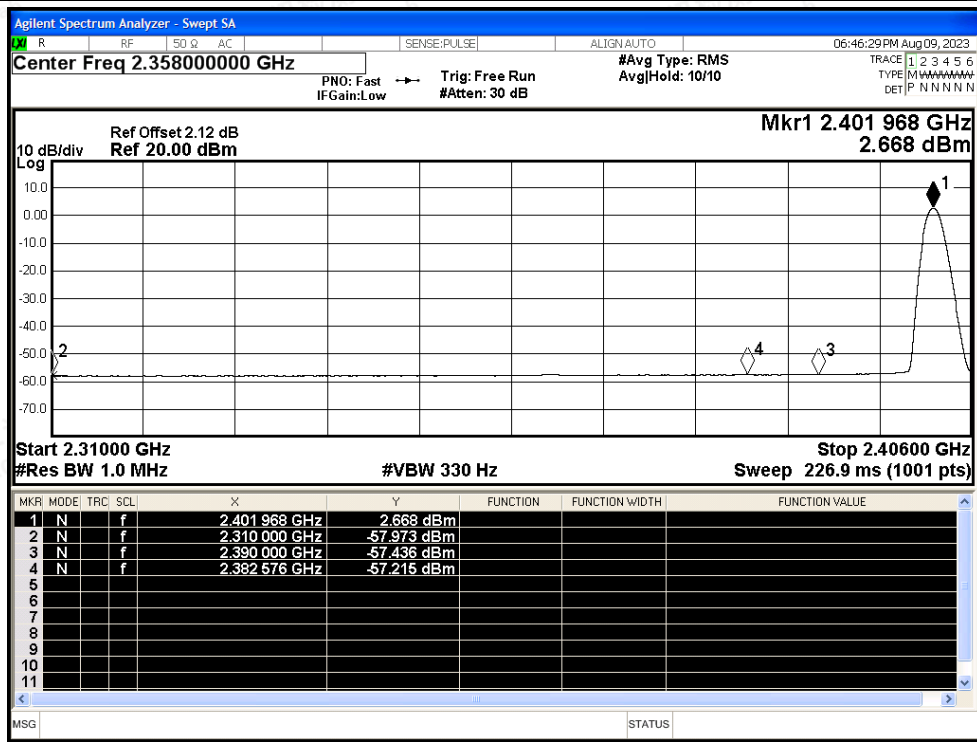


Test Graphs

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

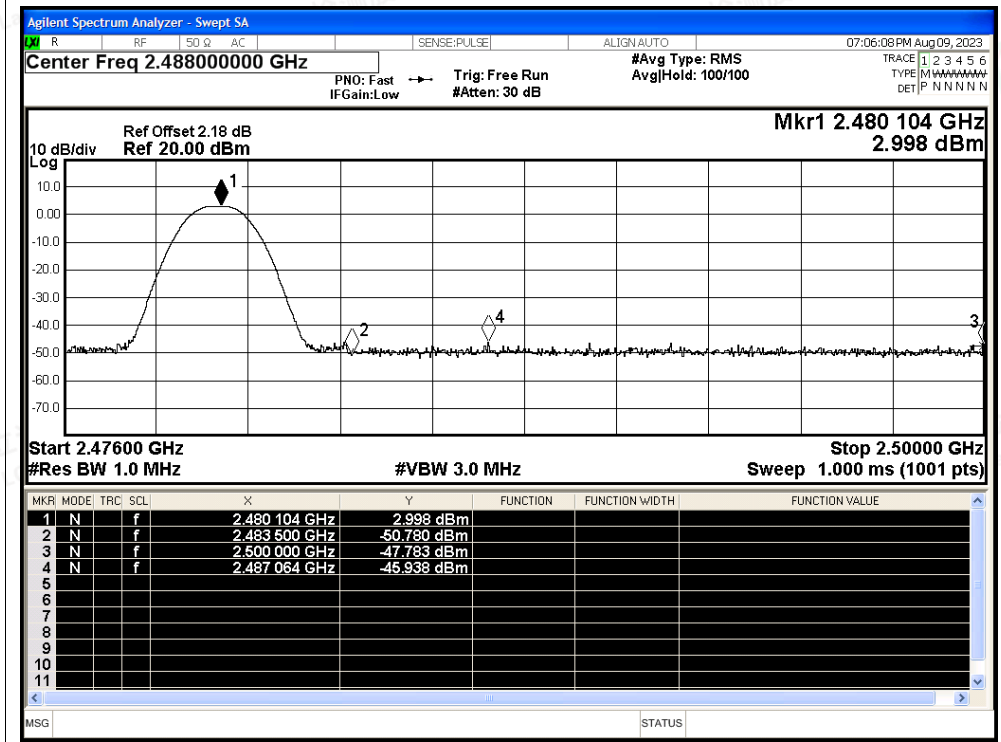


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

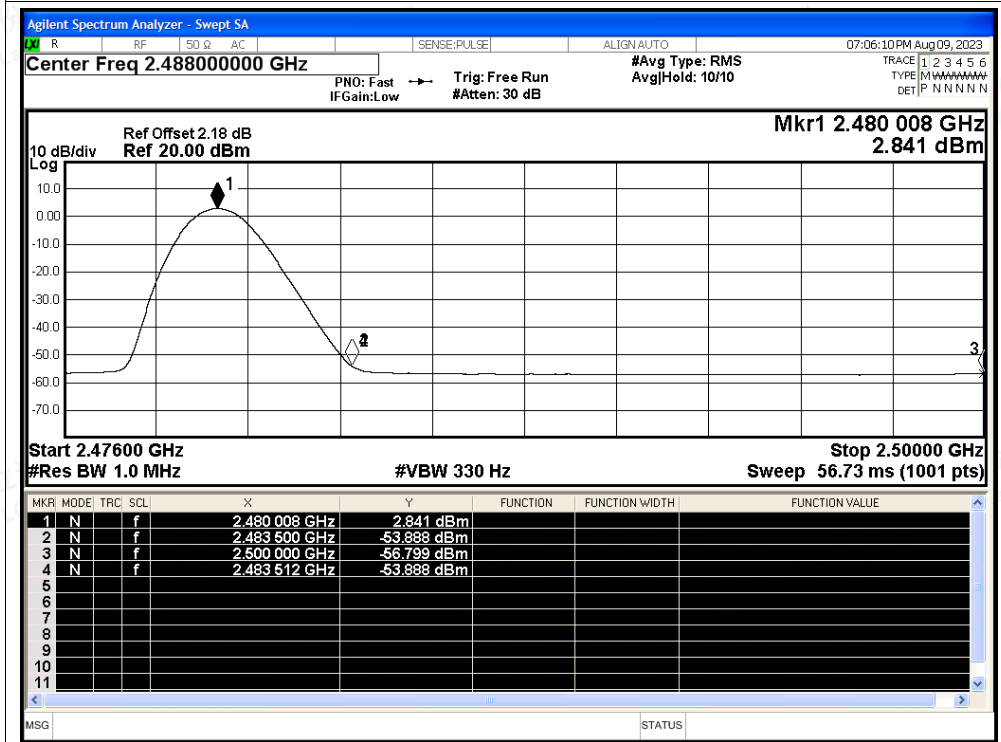


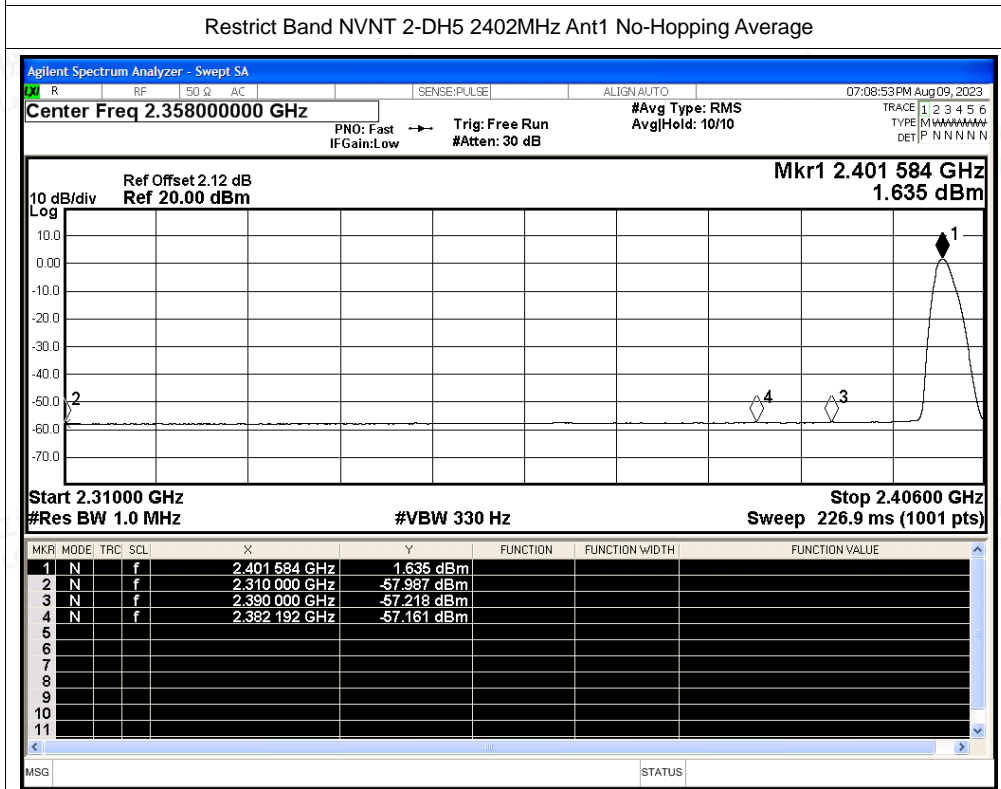
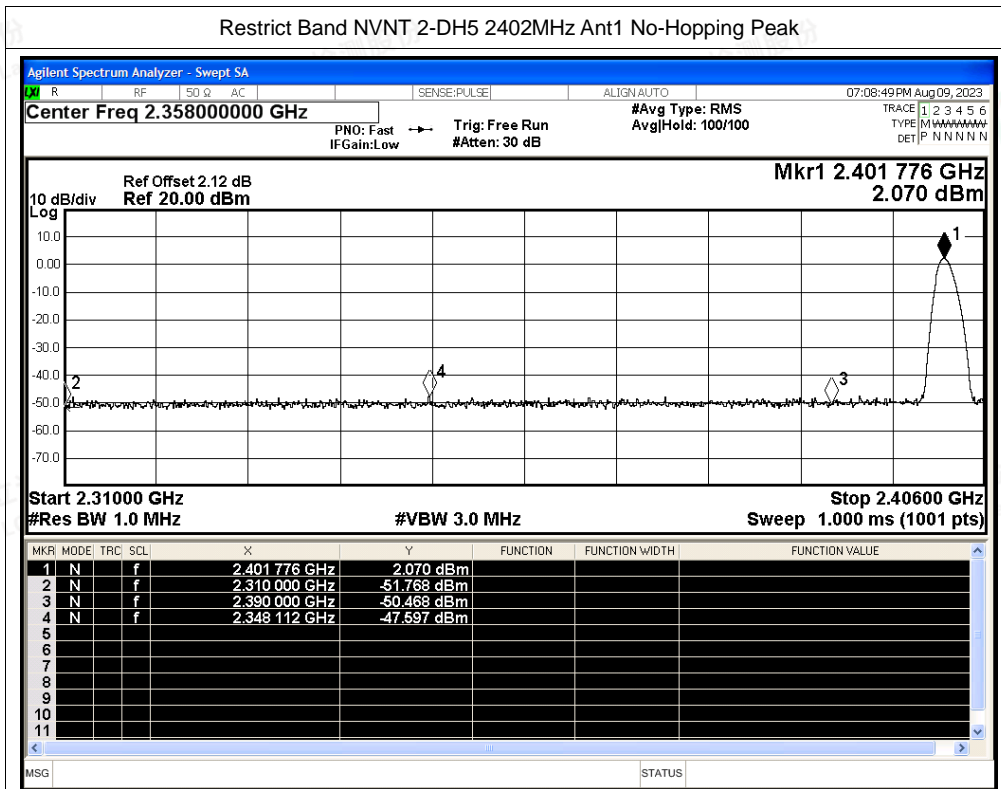


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



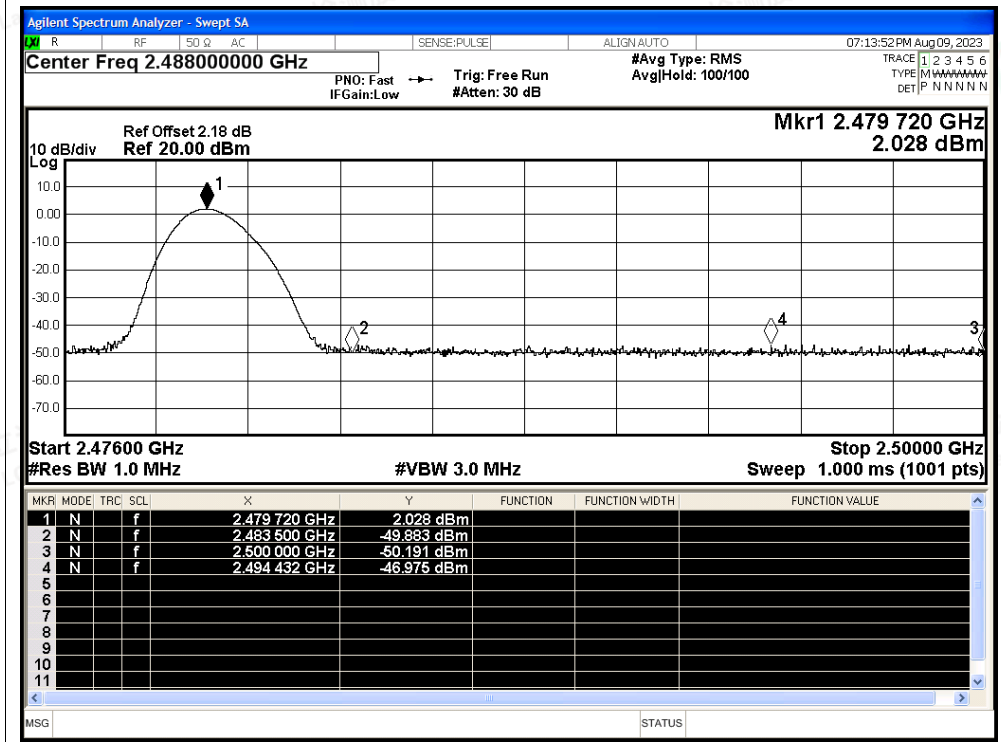
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



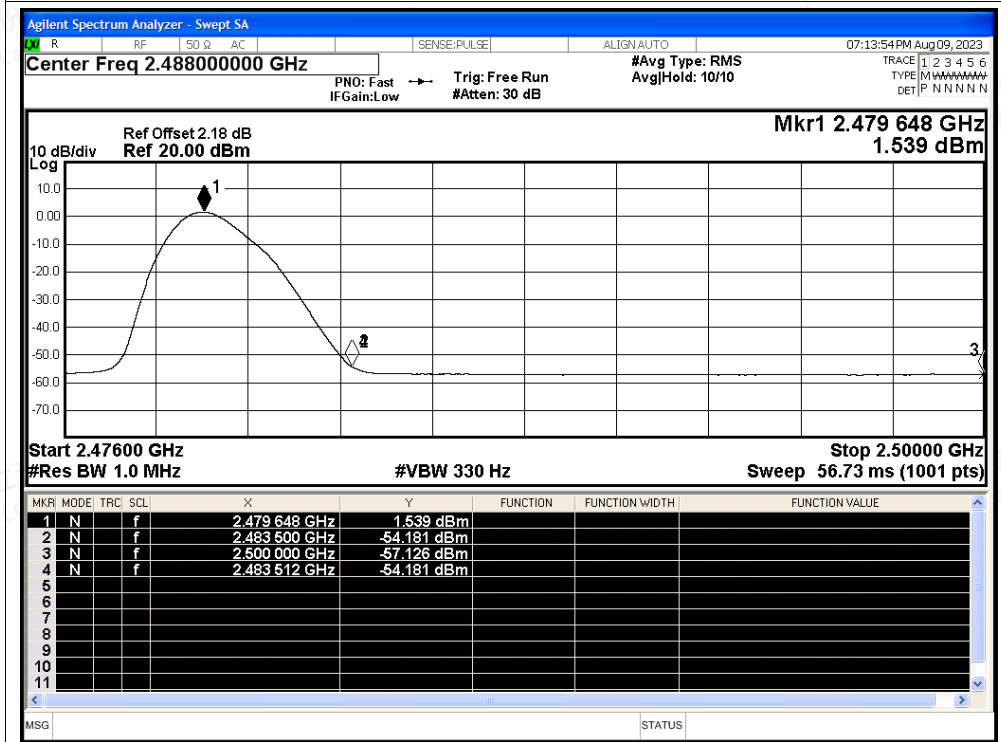




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

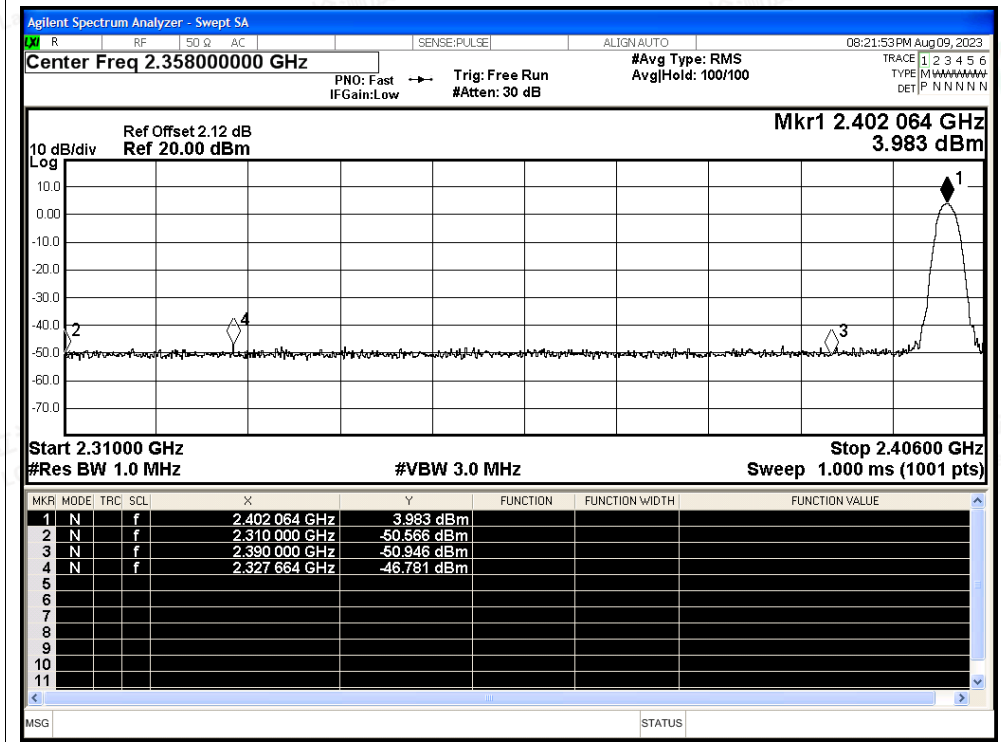


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

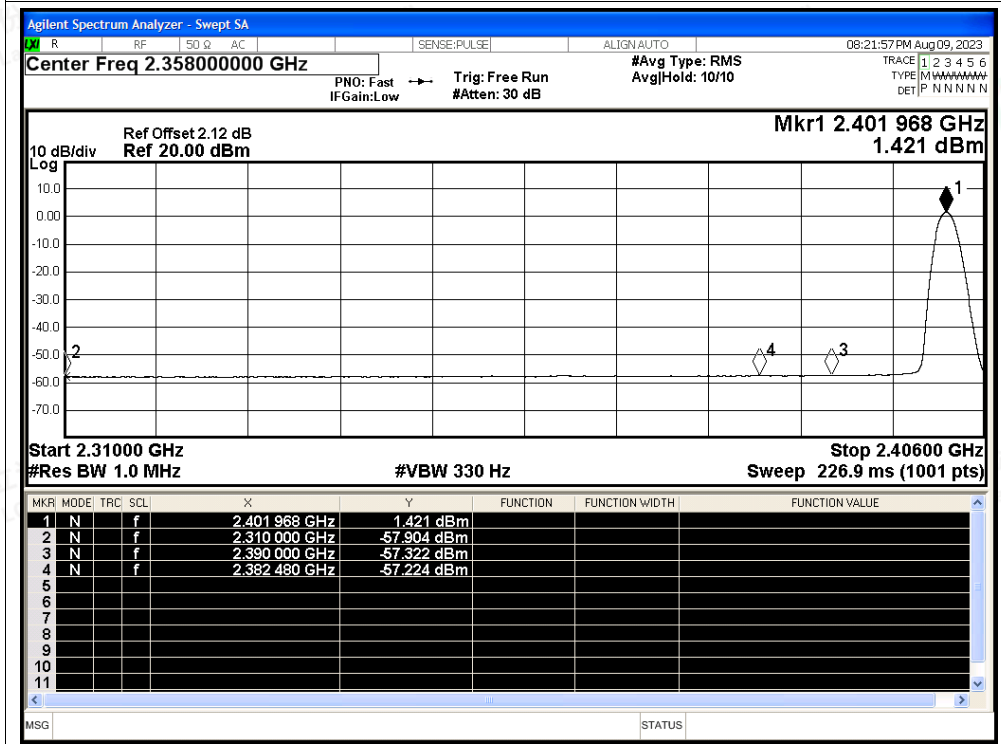




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

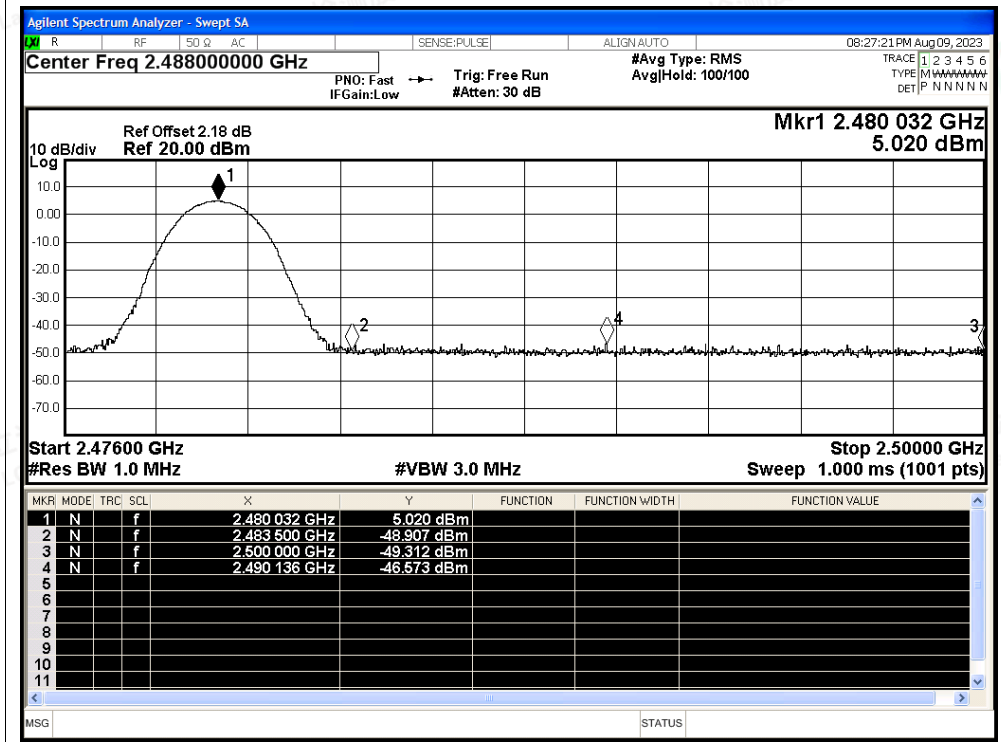


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average

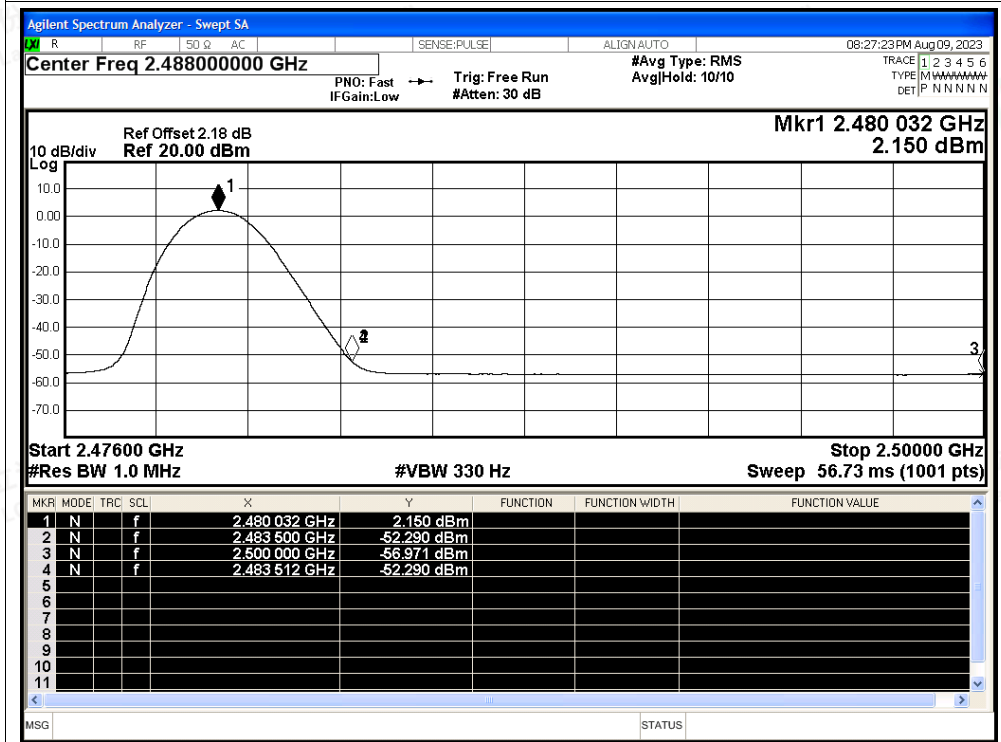




Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average



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