



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Kids Smartwatch

Test Model: Kidzi

Environmental Conditions

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

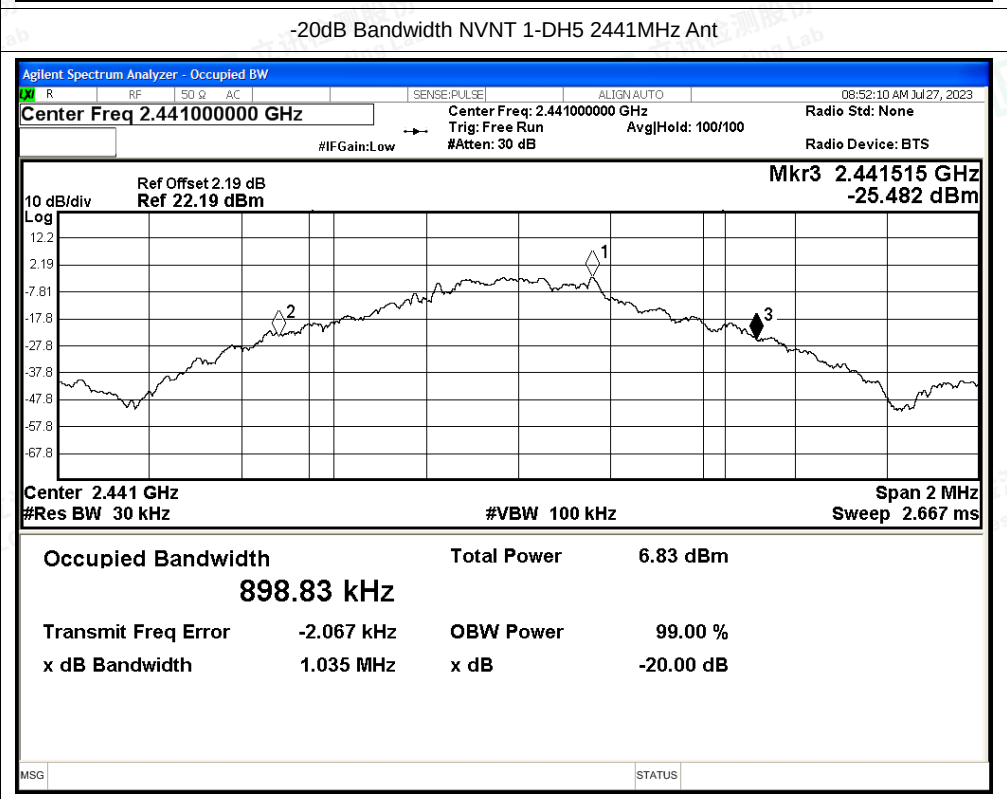
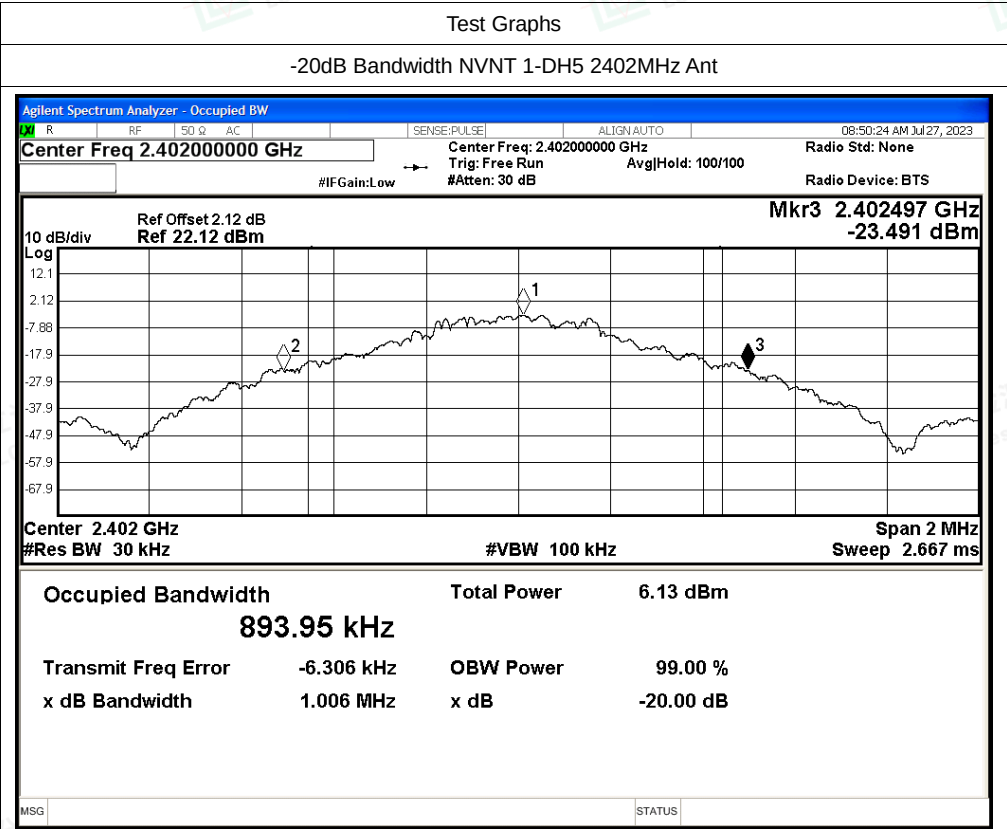


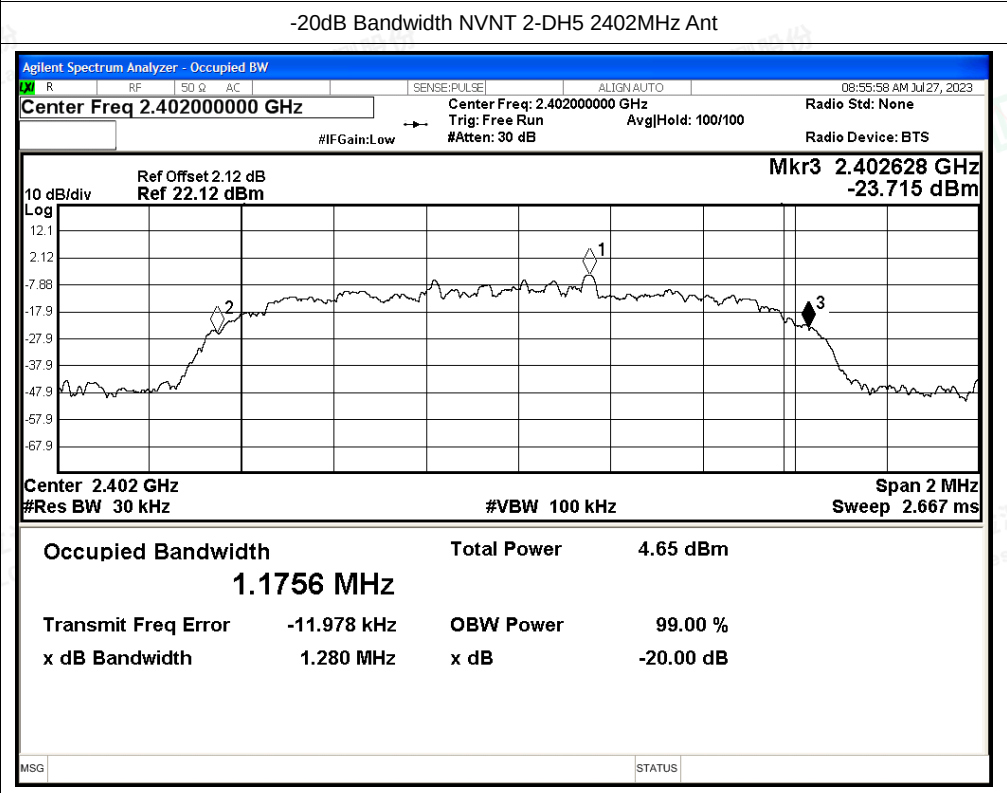
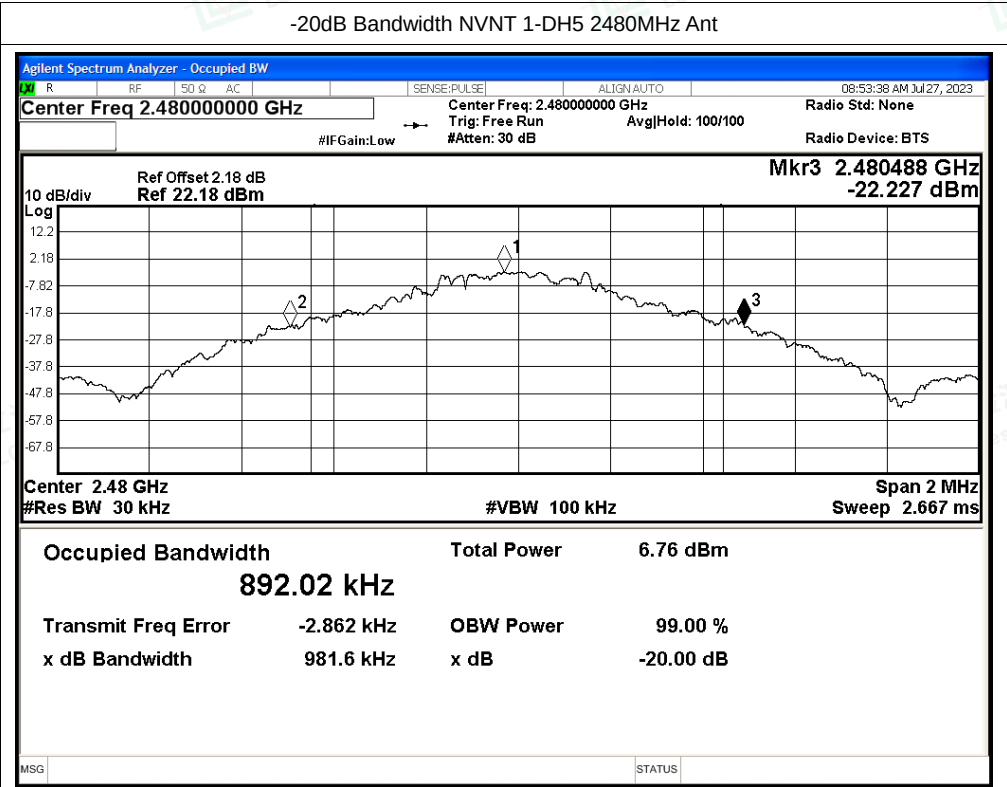


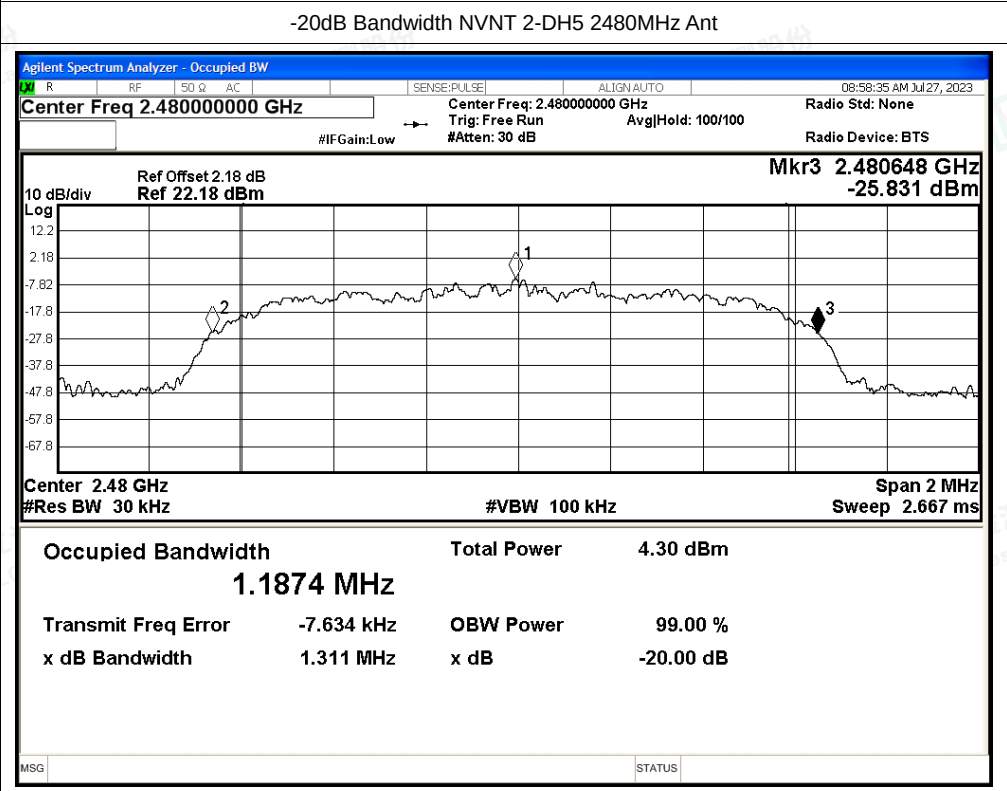
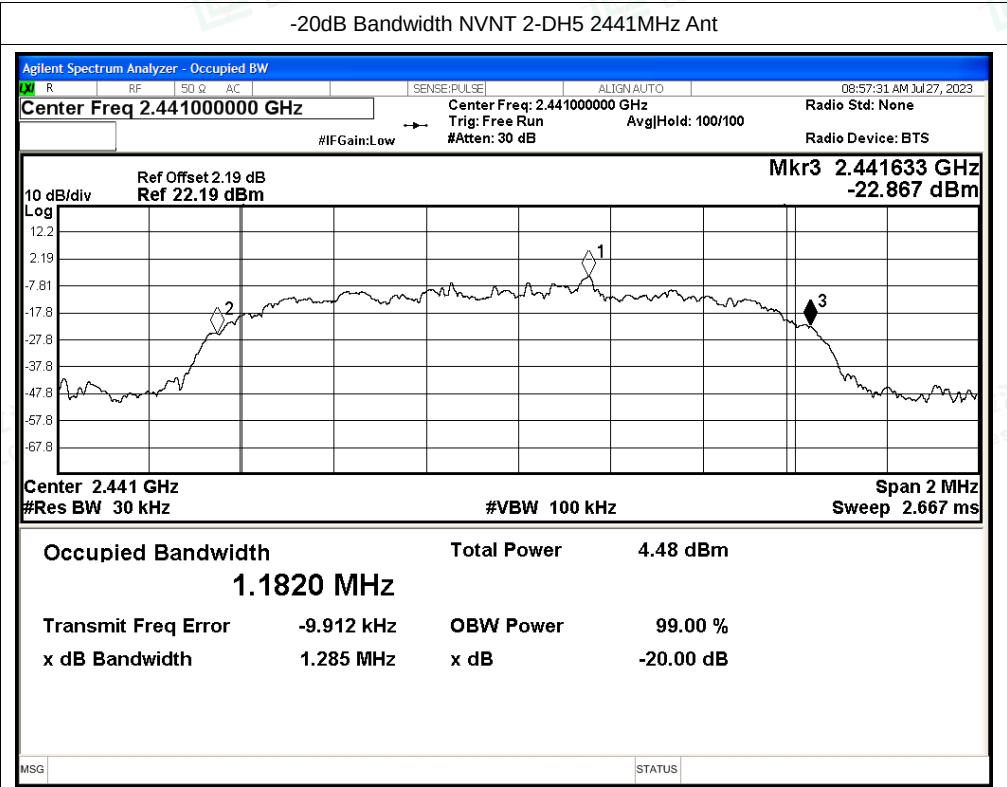
A.1 -20dB Bandwidth

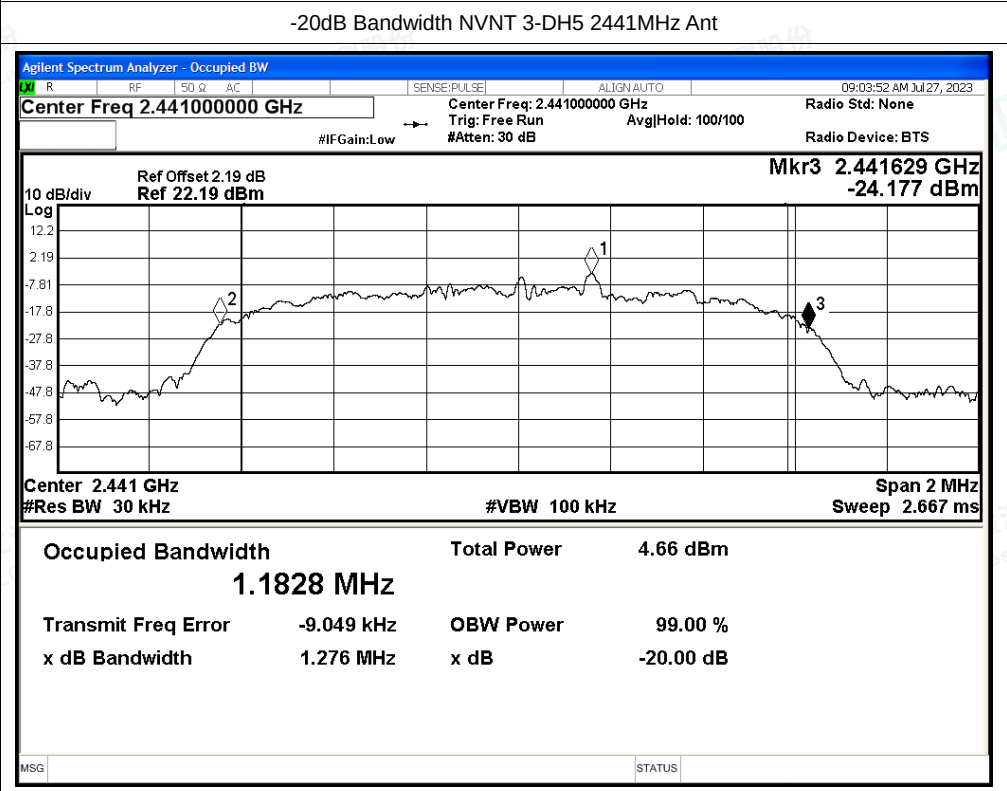
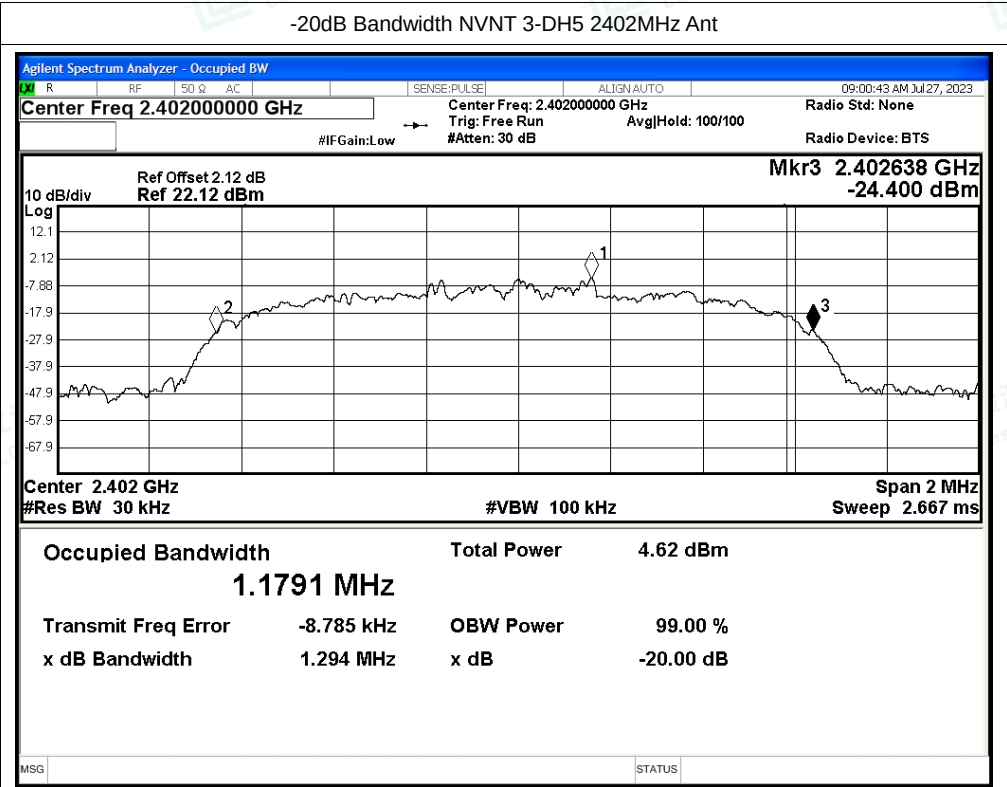
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant	1.006	N/A	Pass
NVNT	1-DH5	2441	Ant	1.035	N/A	Pass
NVNT	1-DH5	2480	Ant	0.982	N/A	Pass
NVNT	2-DH5	2402	Ant	1.28	N/A	Pass
NVNT	2-DH5	2441	Ant	1.285	N/A	Pass
NVNT	2-DH5	2480	Ant	1.311	N/A	Pass
NVNT	3-DH5	2402	Ant	1.294	N/A	Pass
NVNT	3-DH5	2441	Ant	1.276	N/A	Pass
NVNT	3-DH5	2480	Ant	1.282	N/A	Pass

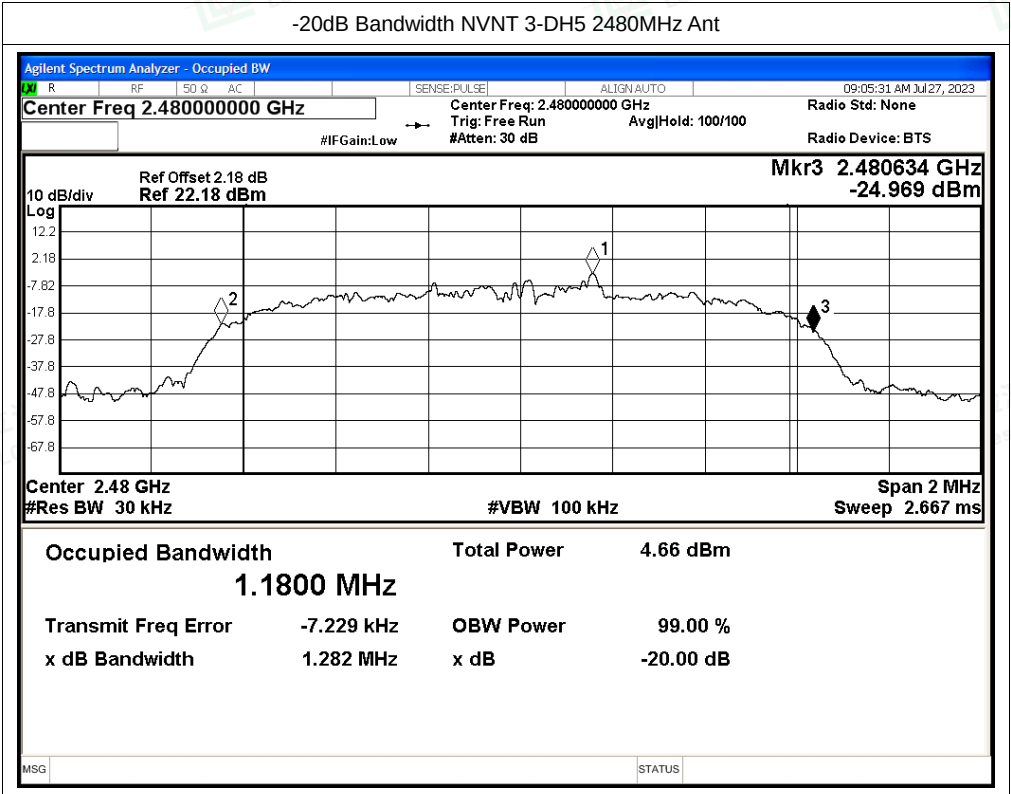










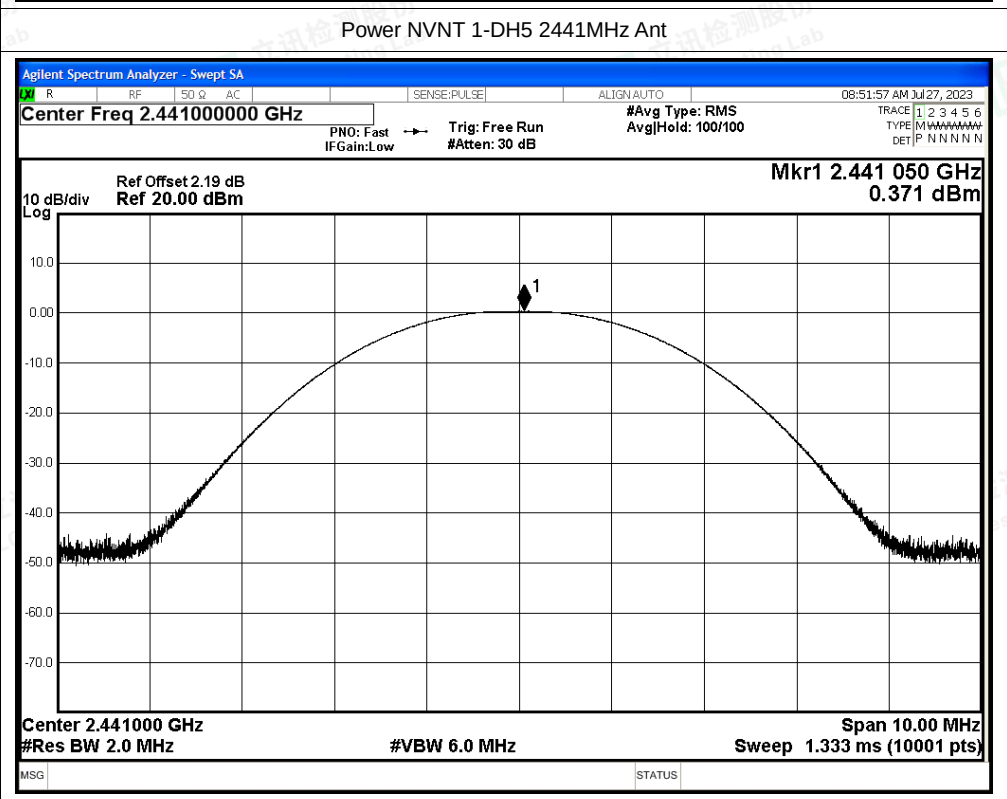
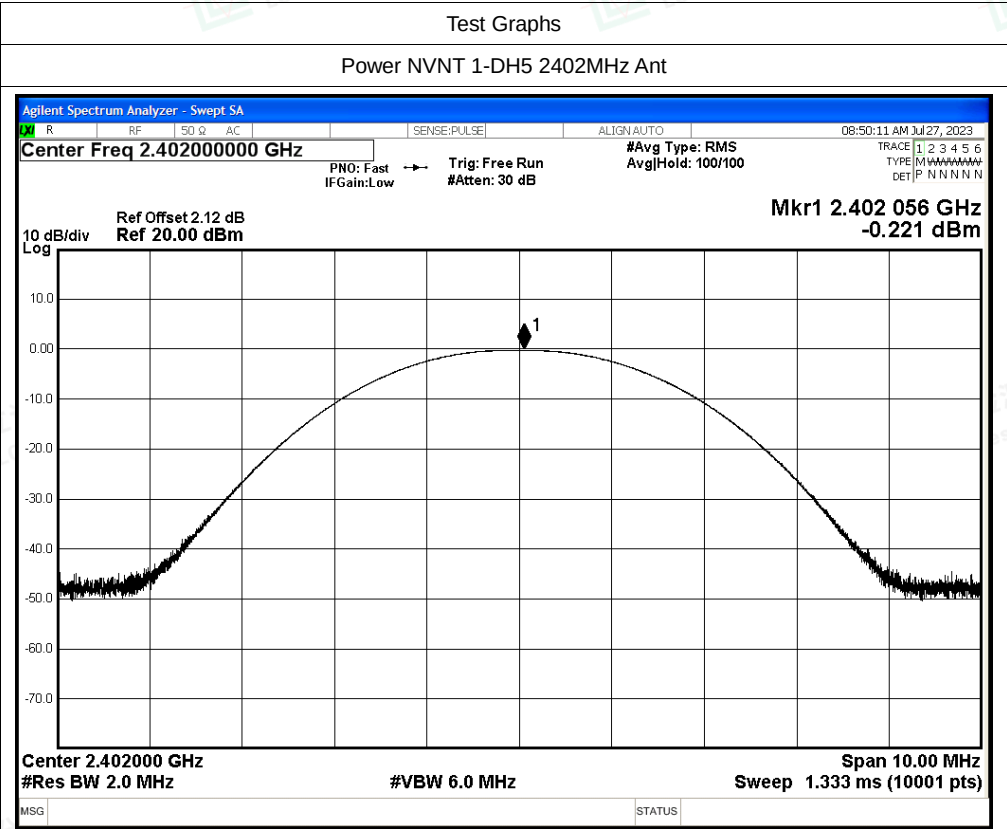


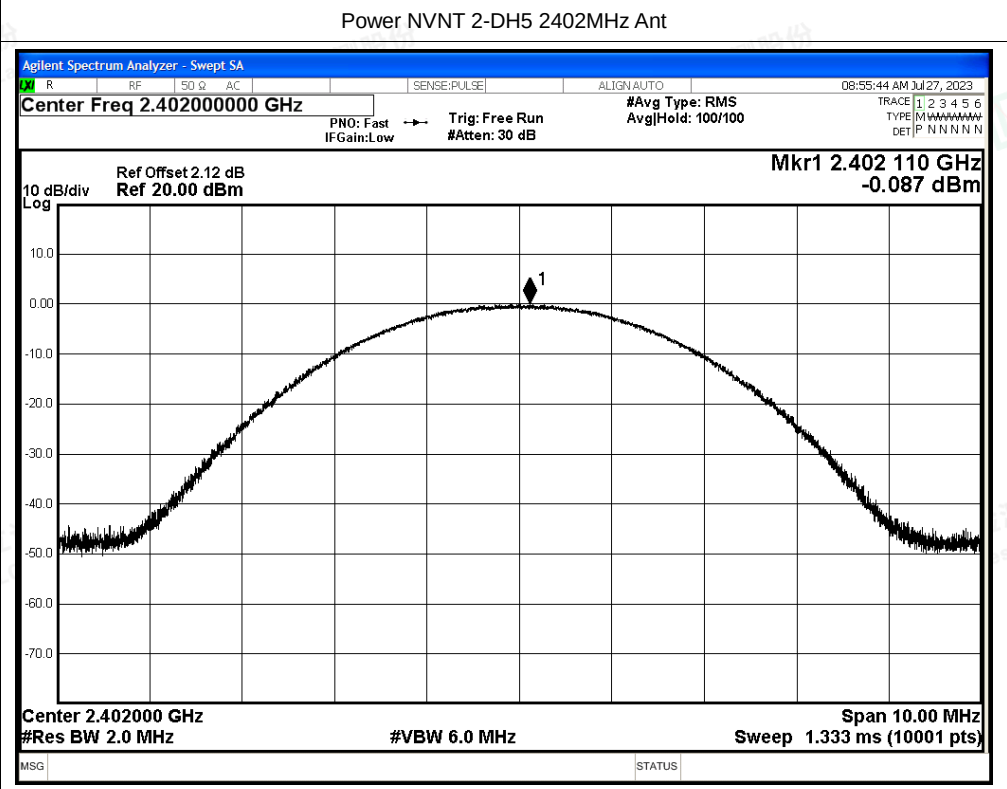
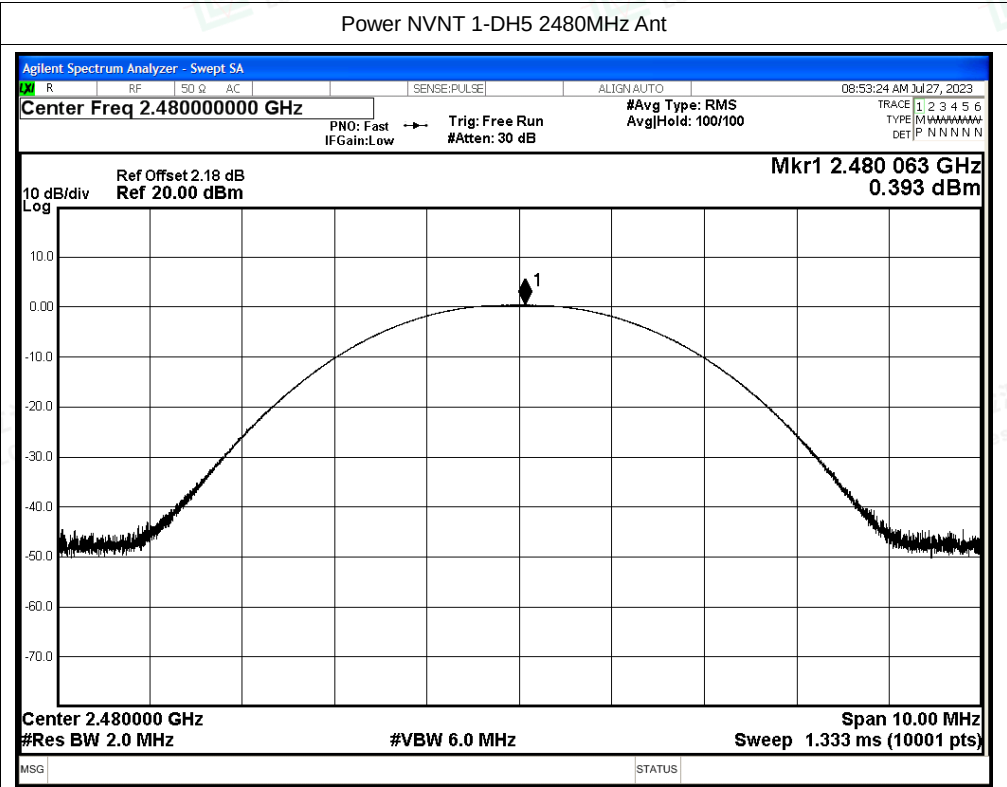


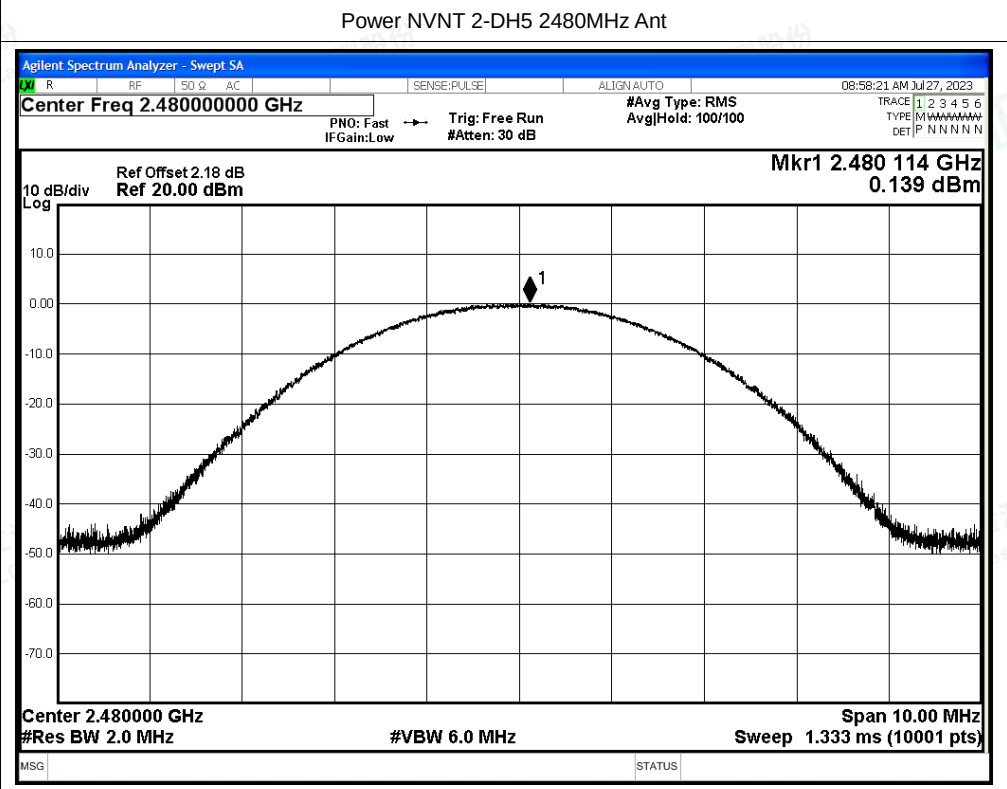
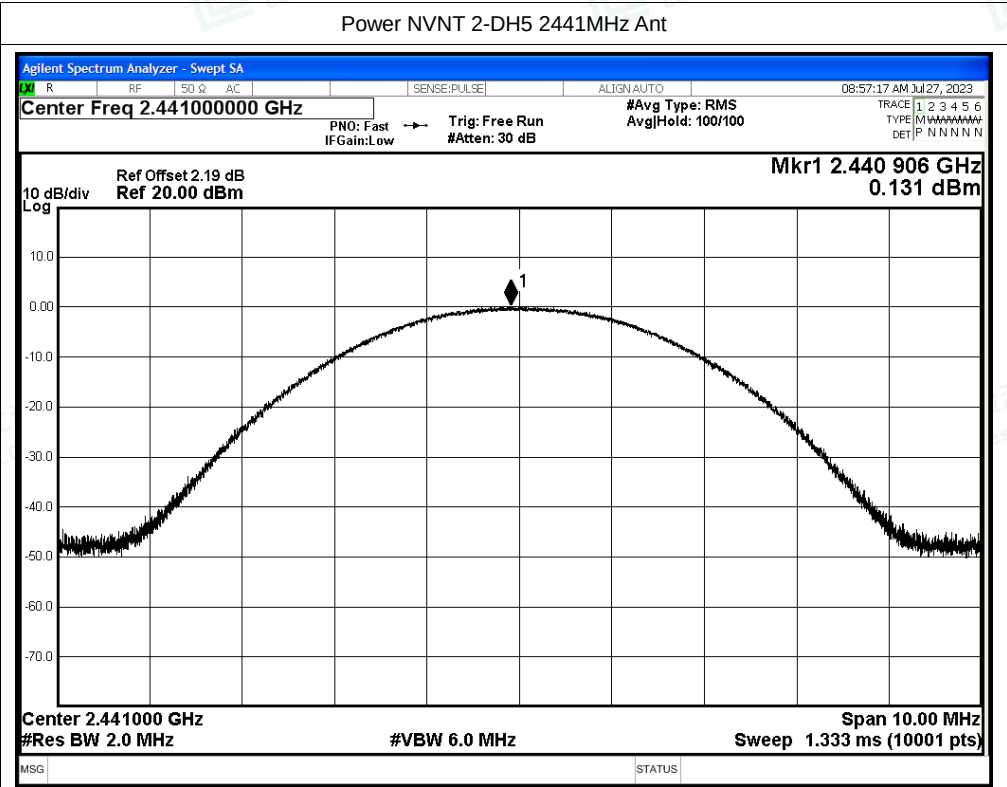
A.2 Maximum Conducted Output Power

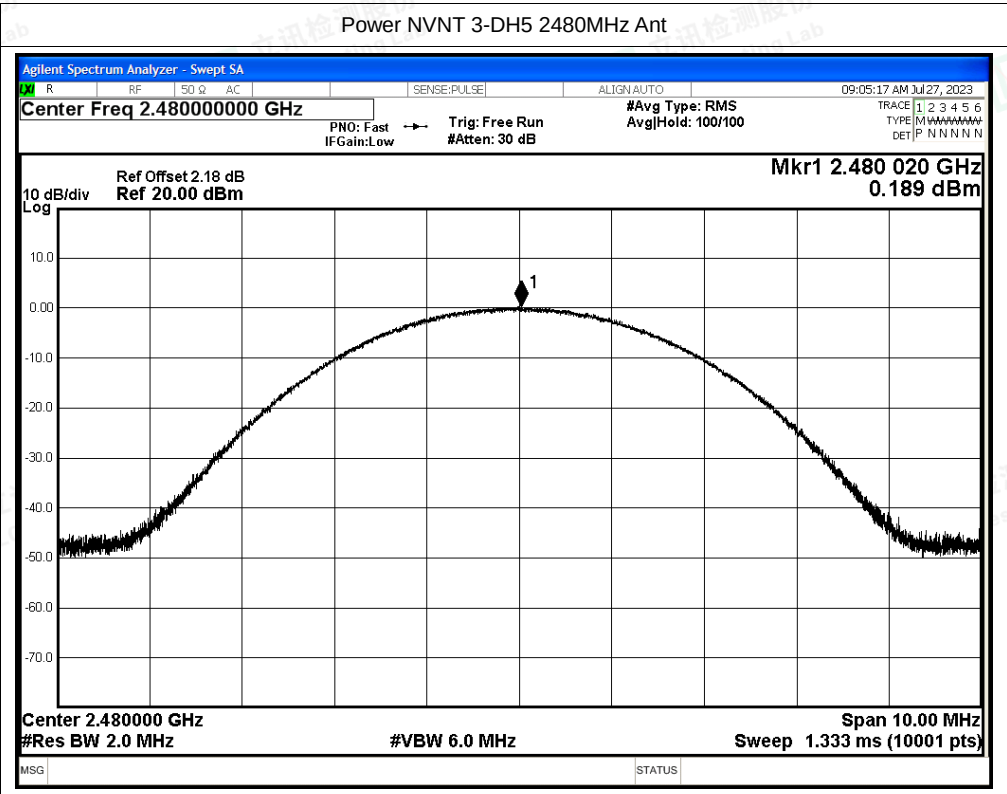
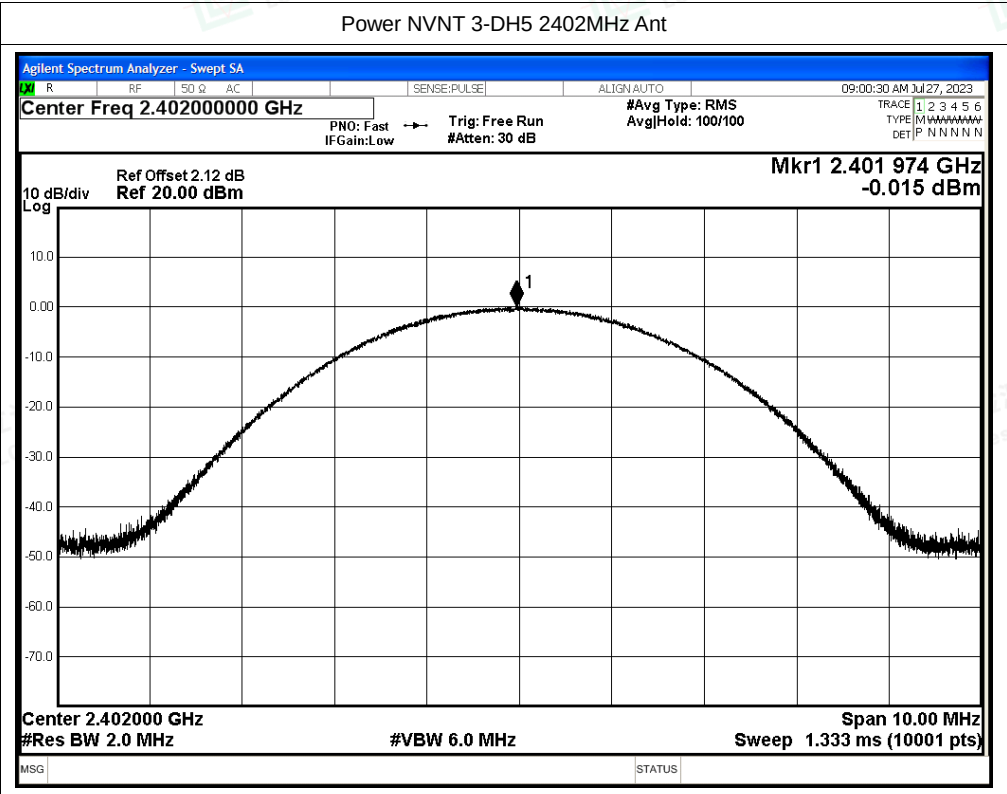
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant	-0.22	21	Pass
NVNT	1-DH5	2441	Ant	0.37	21	Pass
NVNT	1-DH5	2480	Ant	0.39	21	Pass
NVNT	2-DH5	2402	Ant	-0.09	21	Pass
NVNT	2-DH5	2441	Ant	0.13	21	Pass
NVNT	2-DH5	2480	Ant	0.14	21	Pass
NVNT	3-DH5	2402	Ant	-0.02	21	Pass
NVNT	3-DH5	2441	Ant	-0.12	21	Pass
NVNT	3-DH5	2480	Ant	0.19	21	Pass









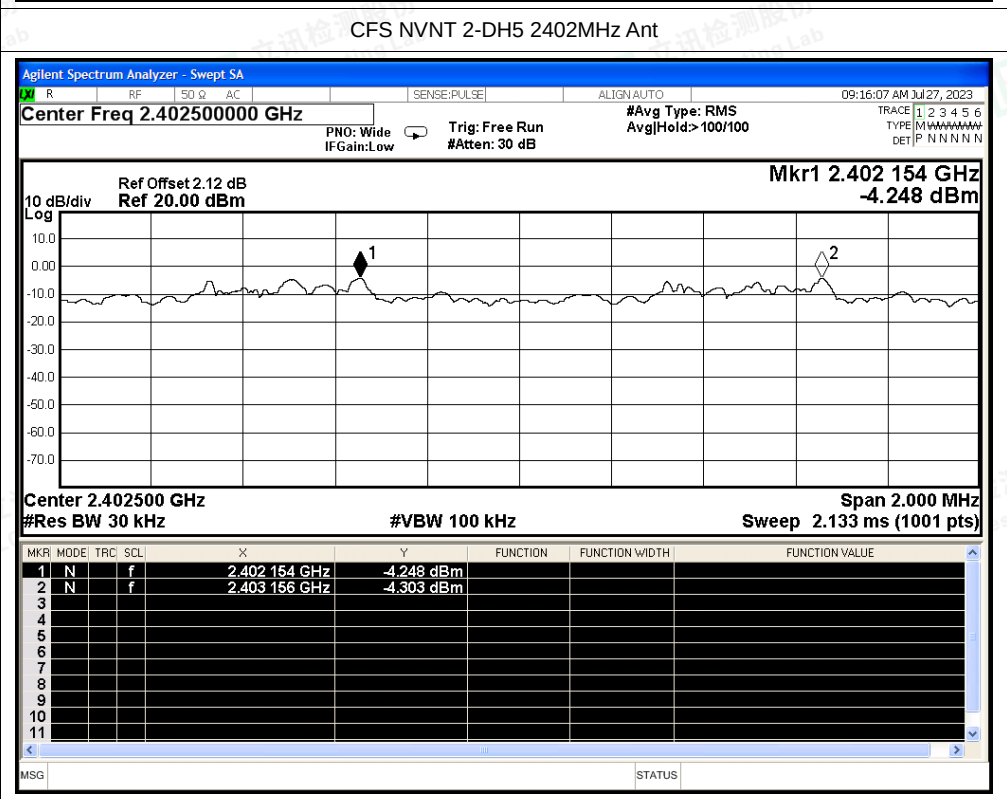
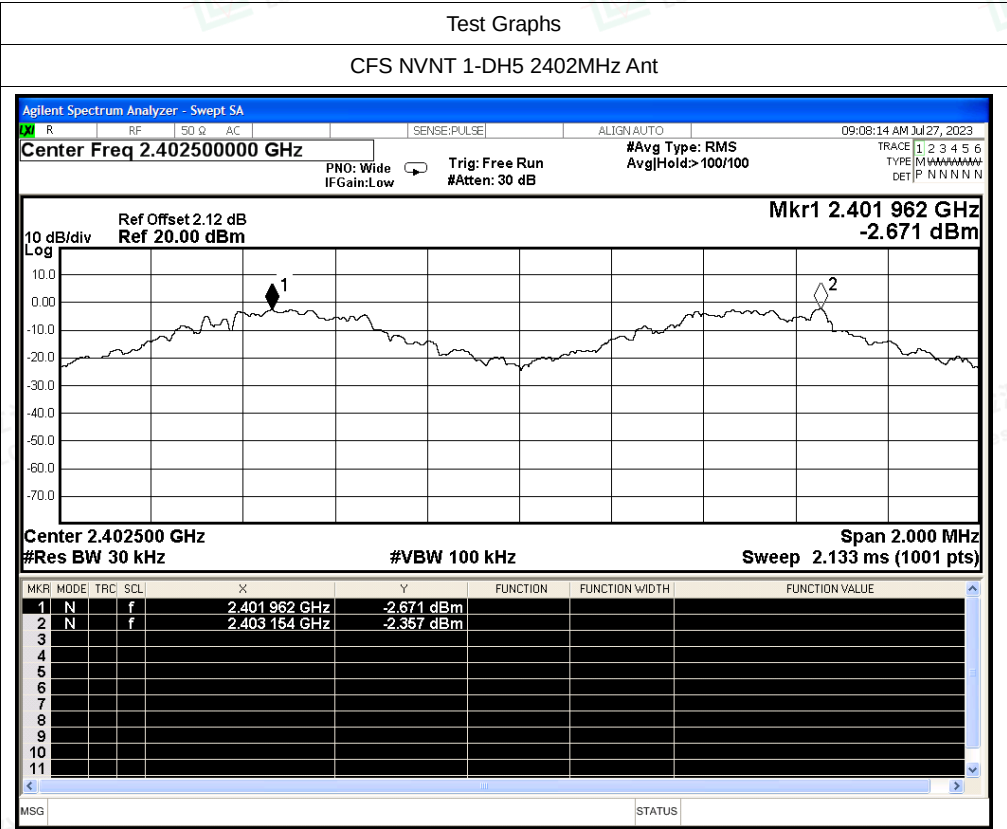


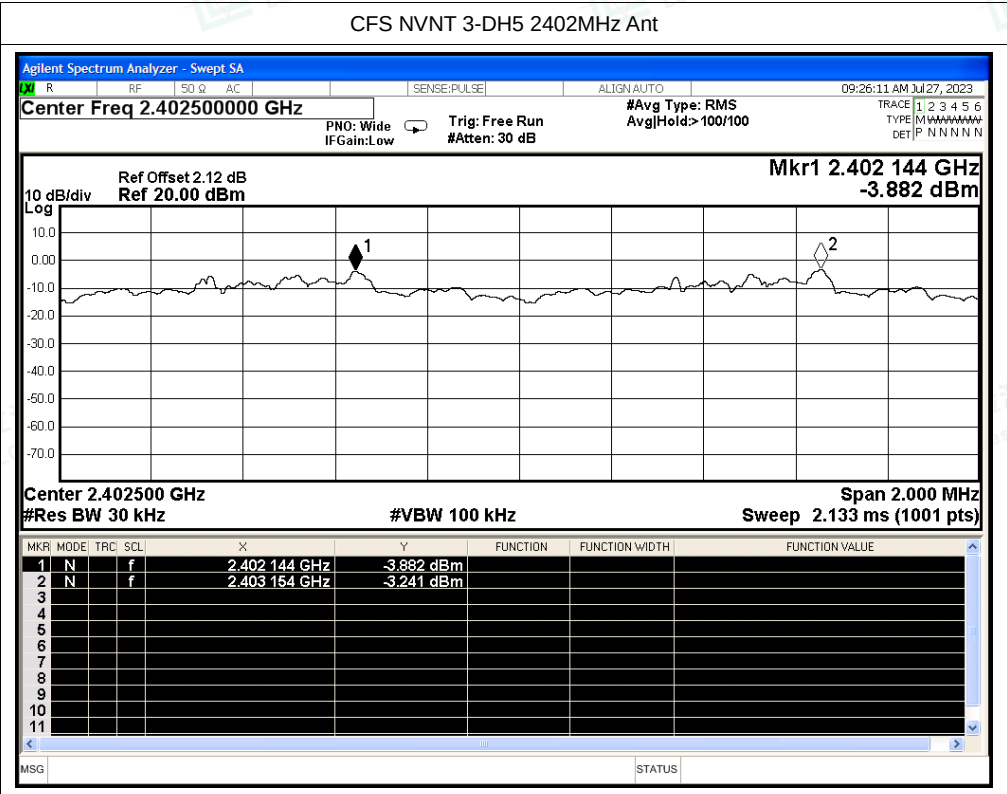


A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant	2401.962	2403.154	1.192	0.690	Pass
NVNT	2-DH5	Ant	2402.154	2403.156	1.002	0.857	Pass
NVNT	3-DH5	Ant	2402.144	2403.154	1.01	0.863	Pass





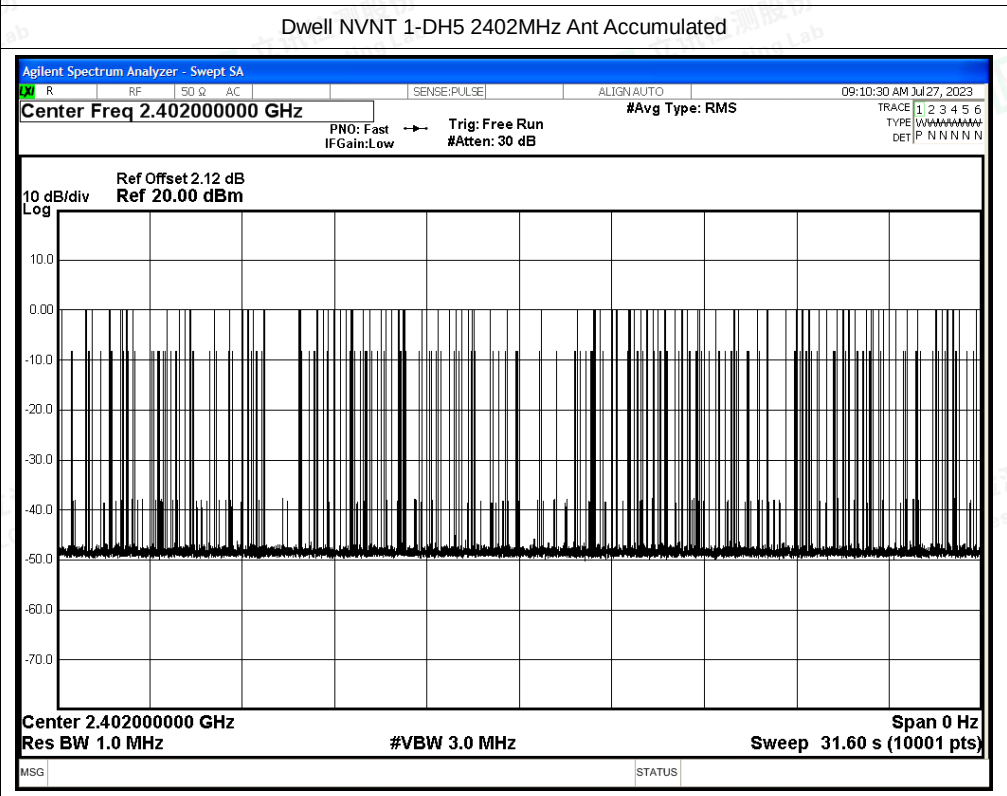
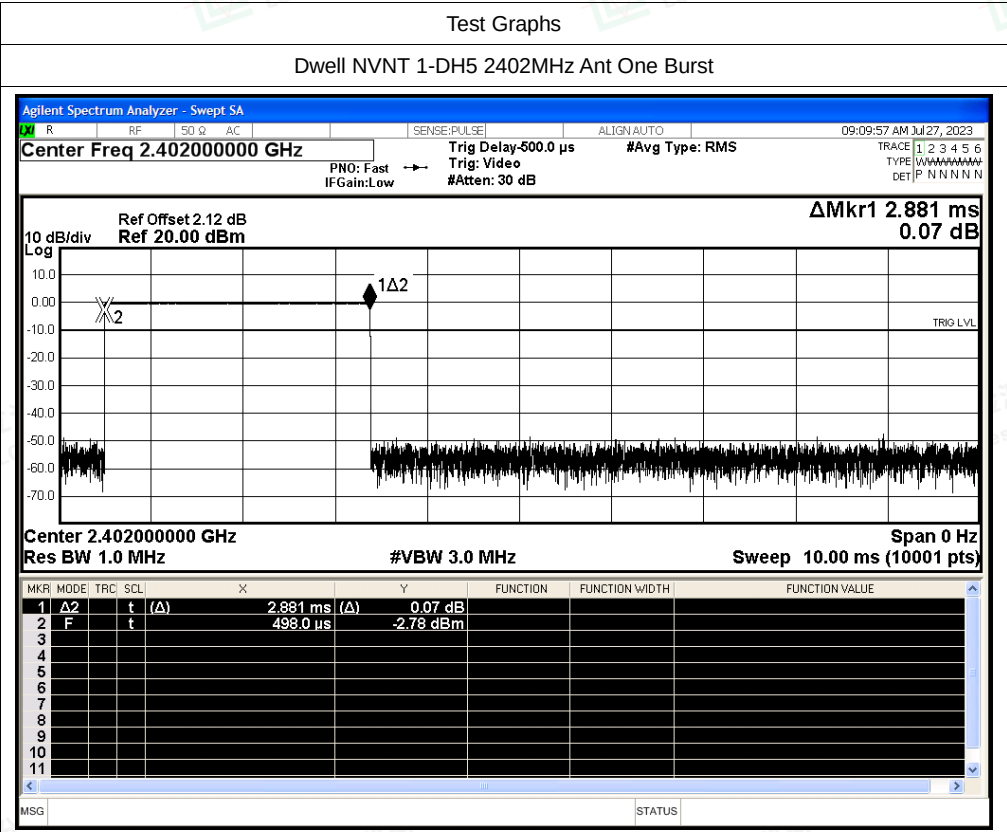


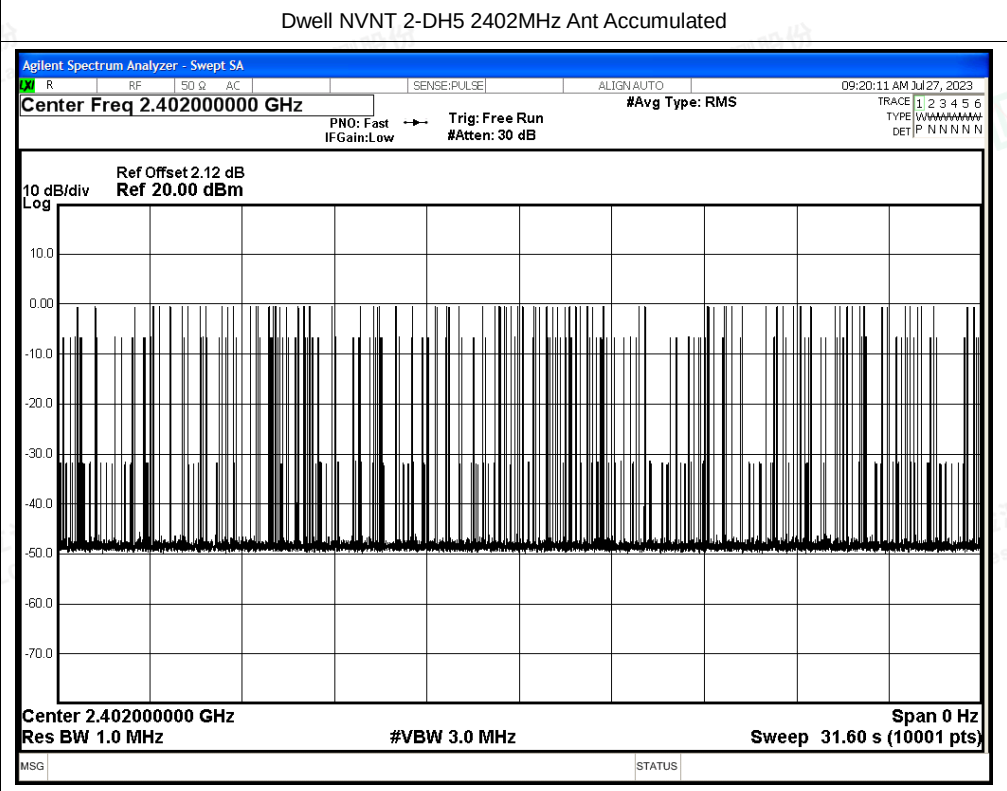
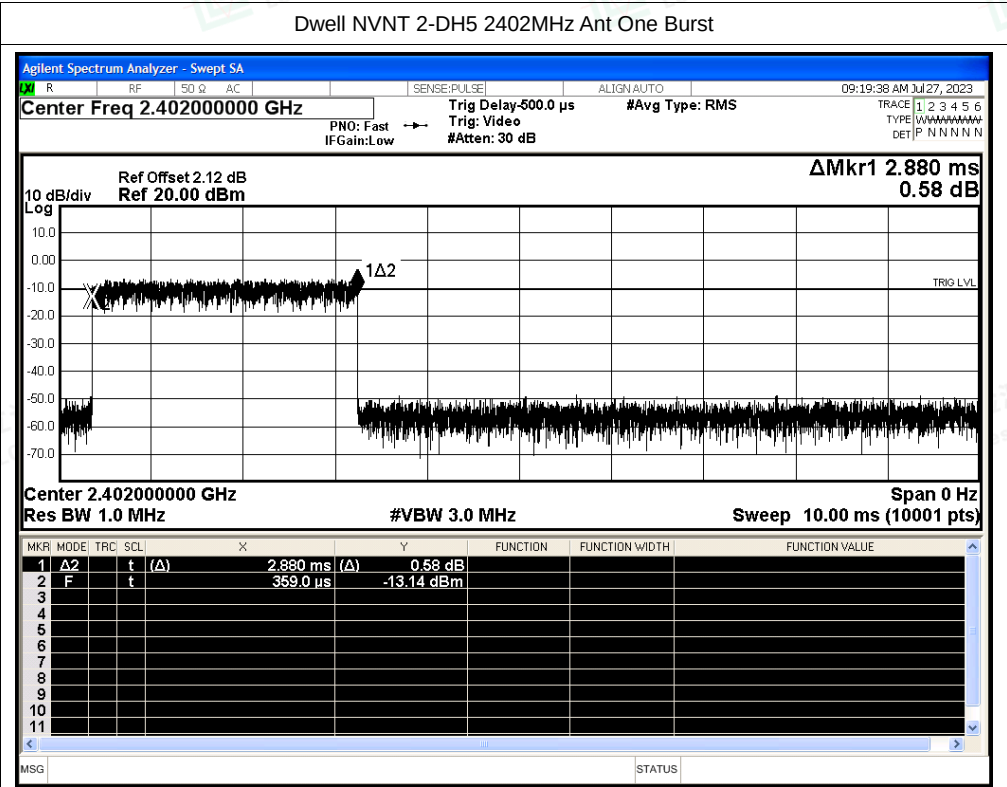


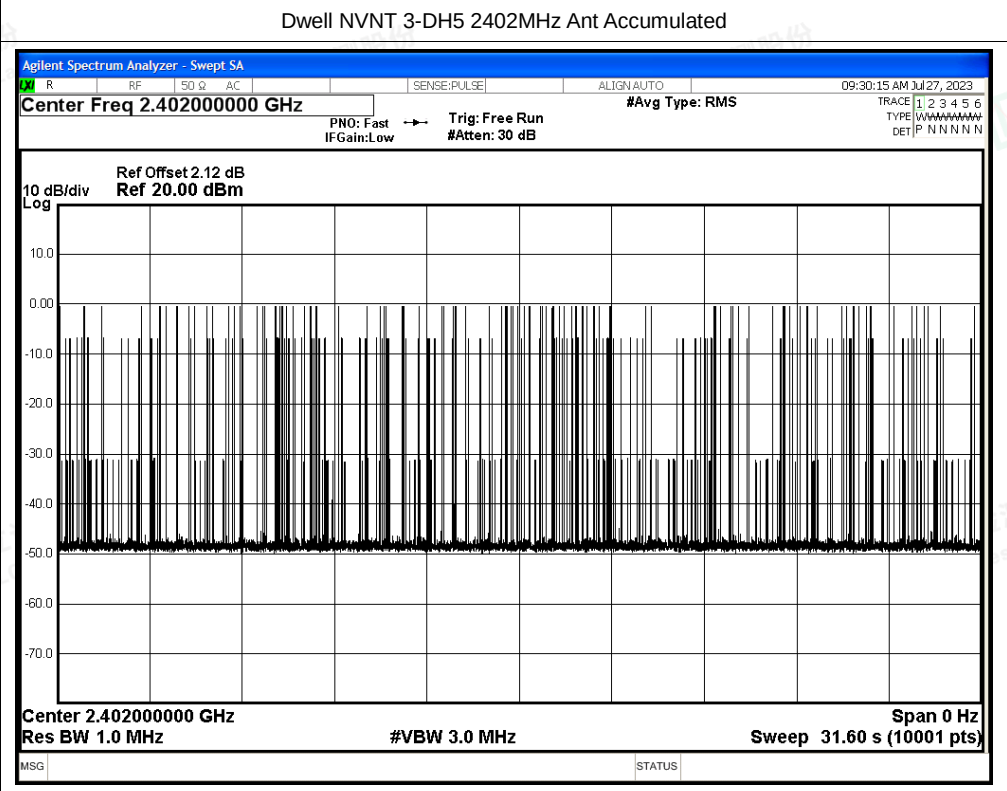
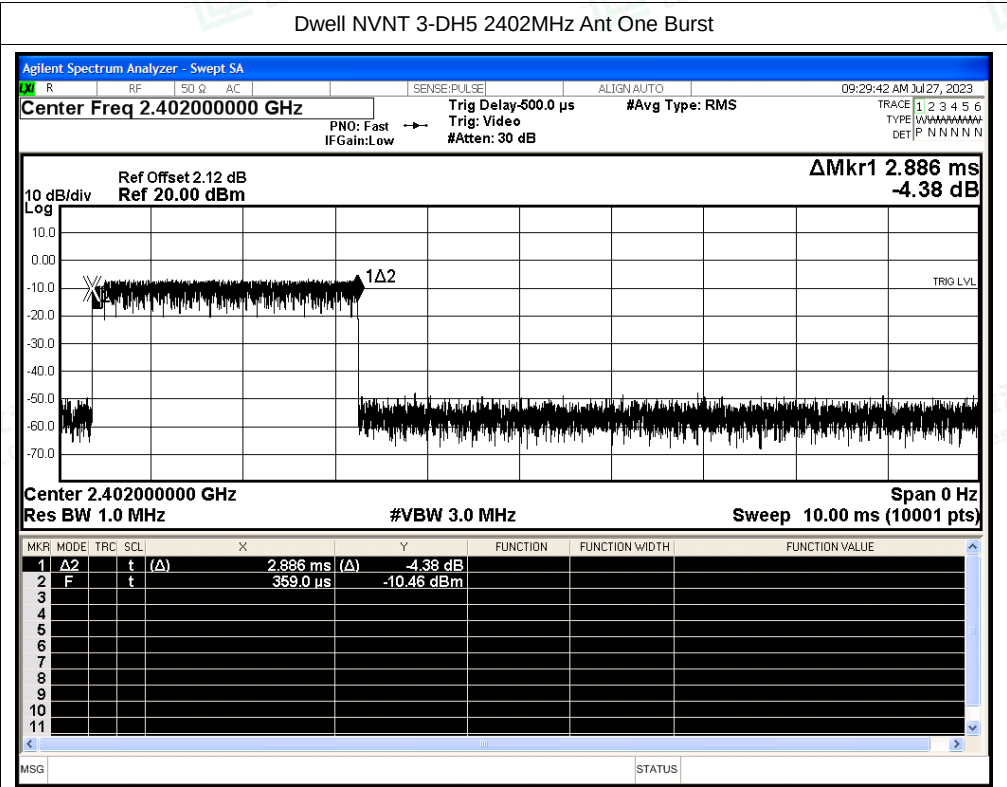
A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant	2.881	314.029	109	31600	400	Pass
NVNT	2-DH5	2402	Ant	2.88	293.76	102	31600	400	Pass
NVNT	3-DH5	2402	Ant	2.886	297.258	103	31600	400	Pass







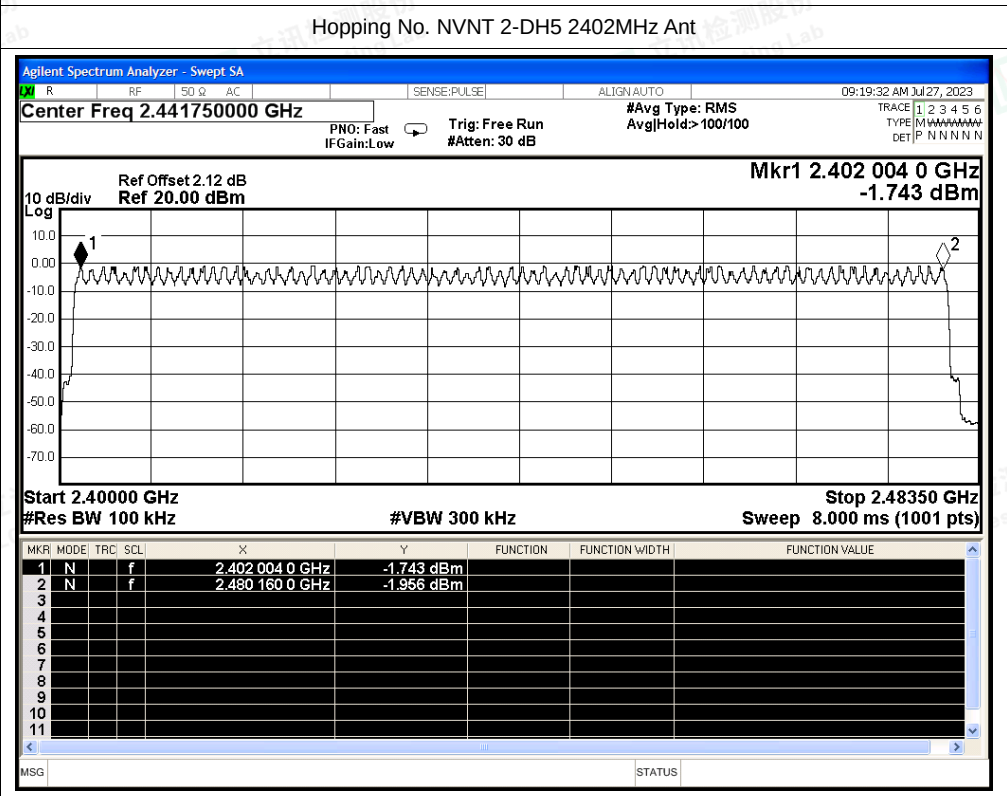
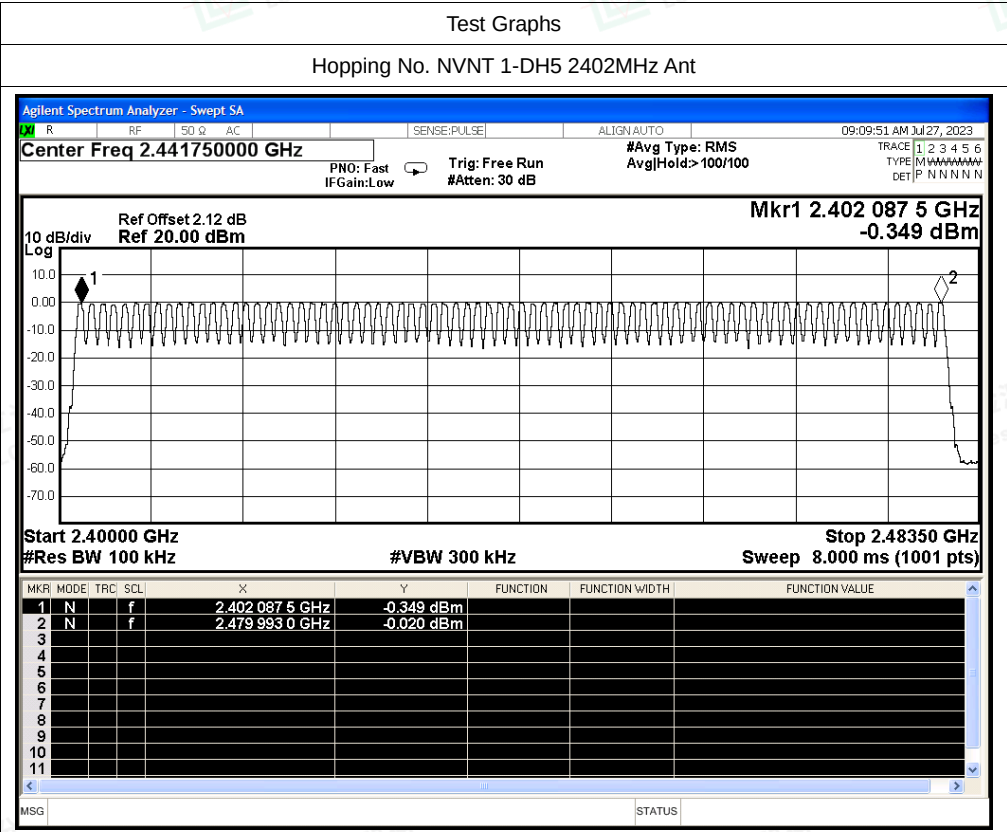


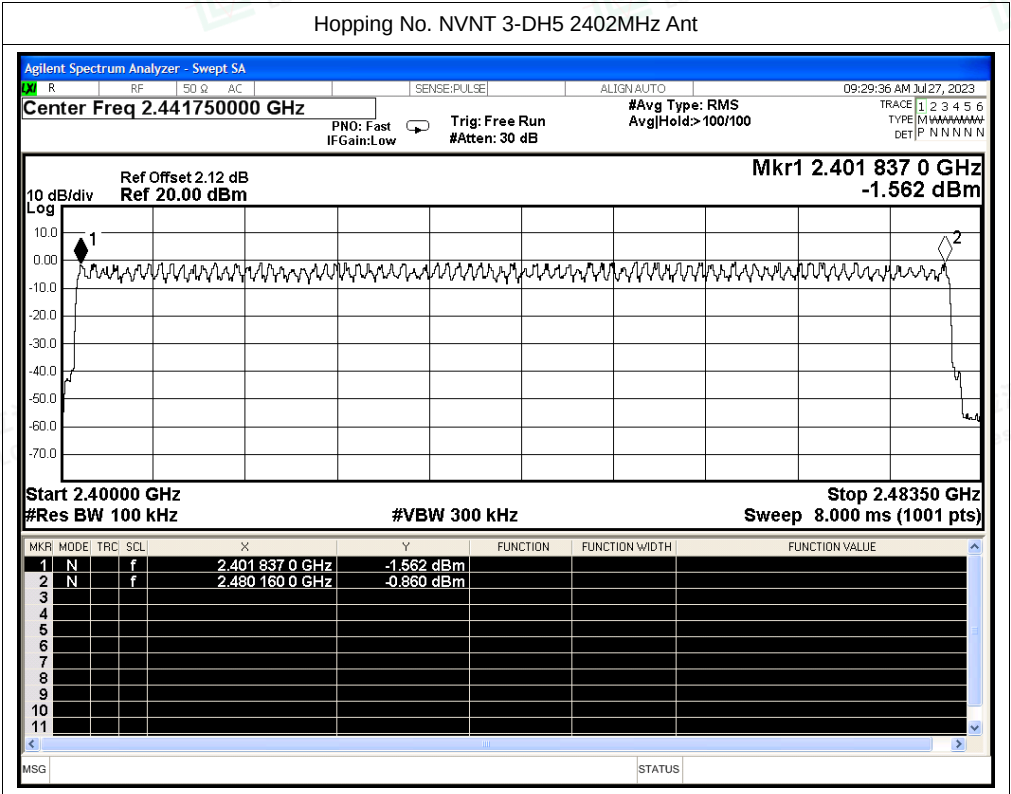


A.4 Number of Hopping Channel

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





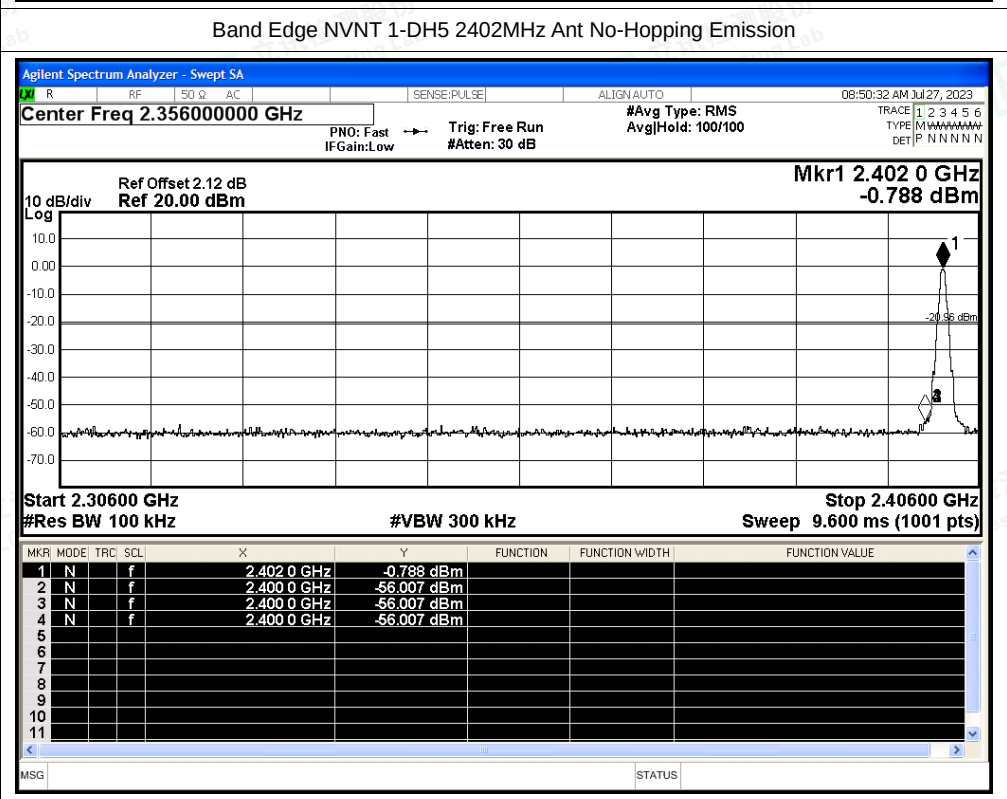
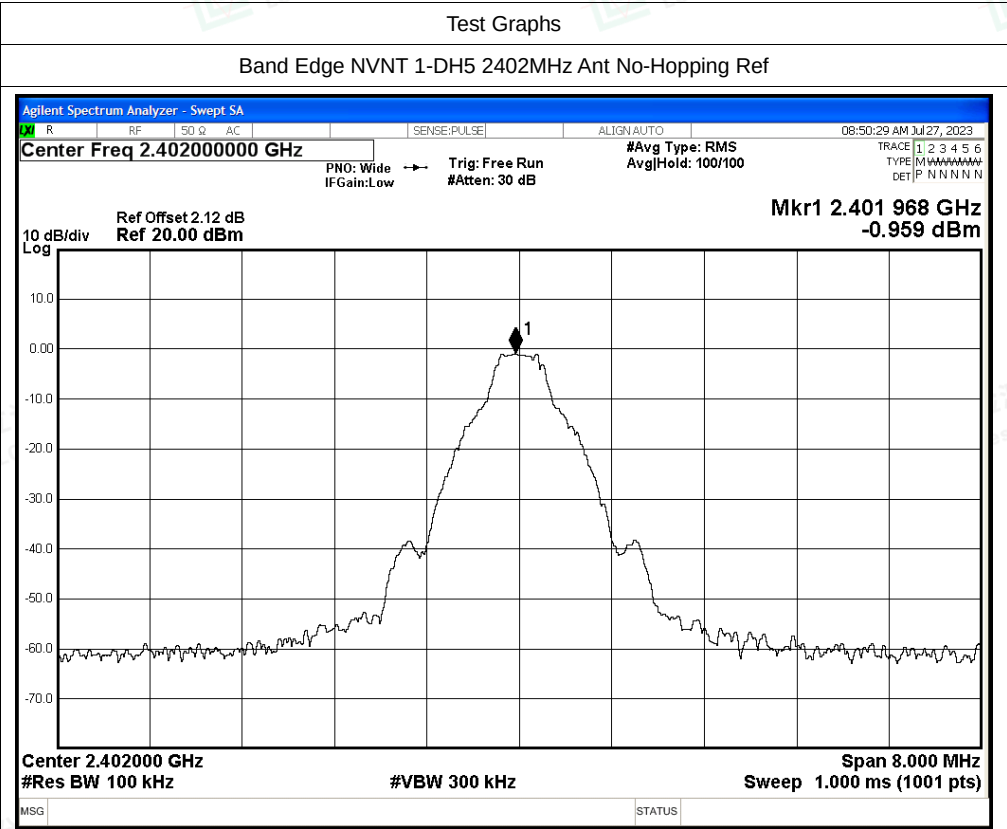


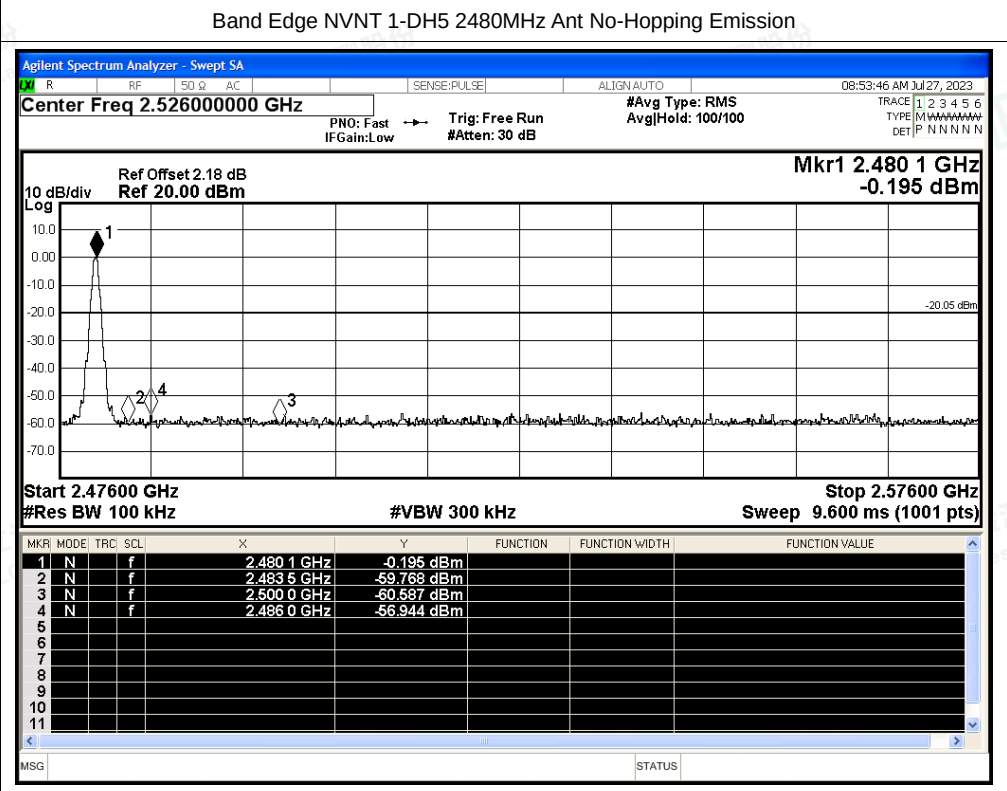
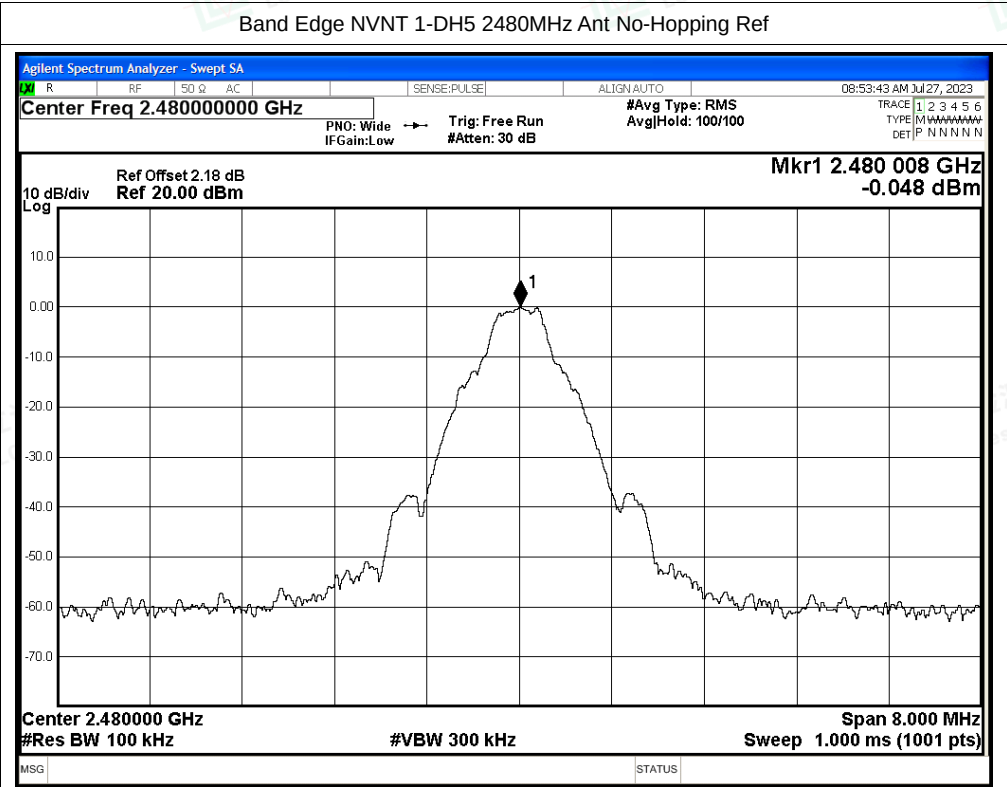


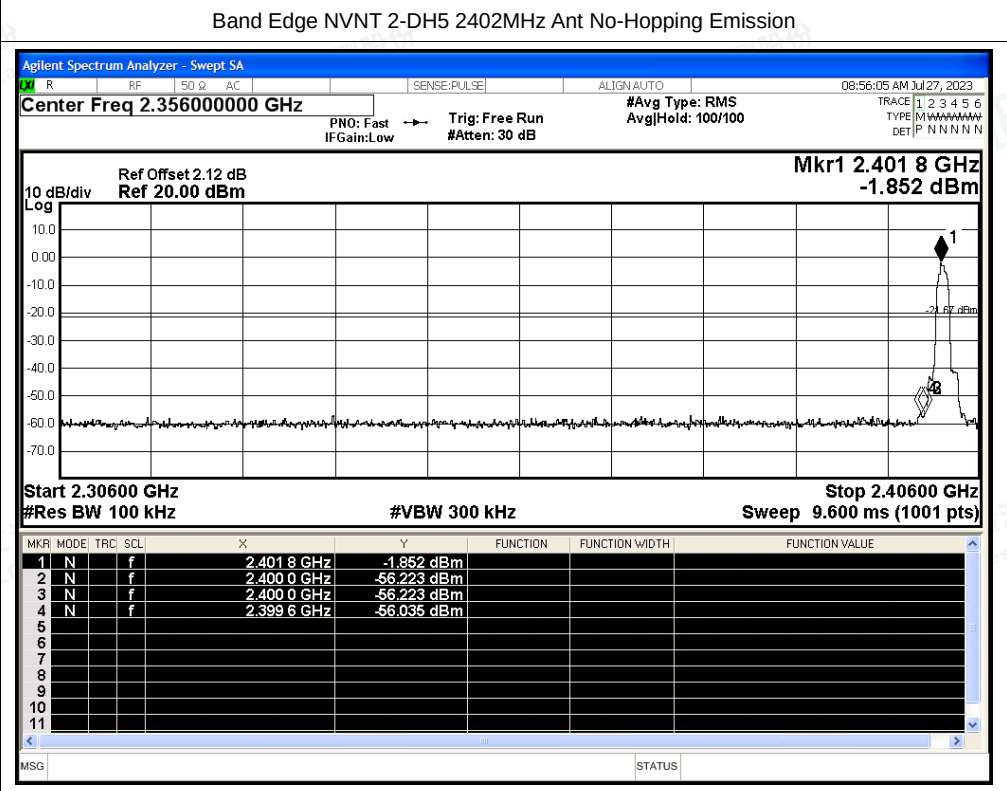
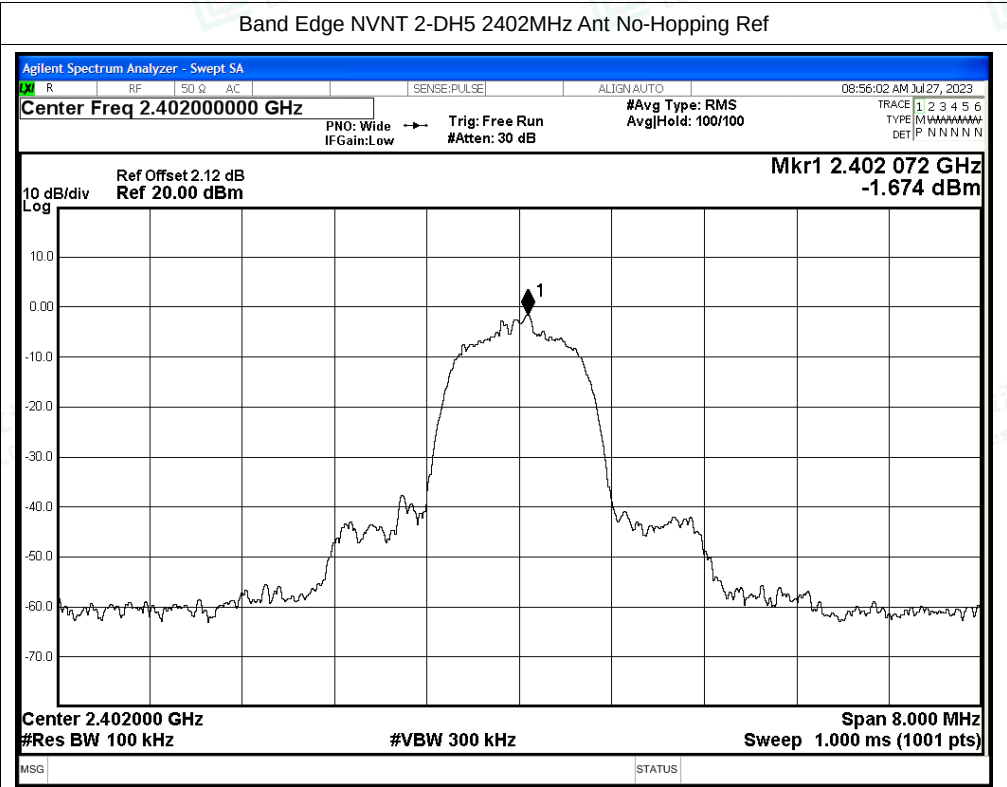
A.4 Band Edge

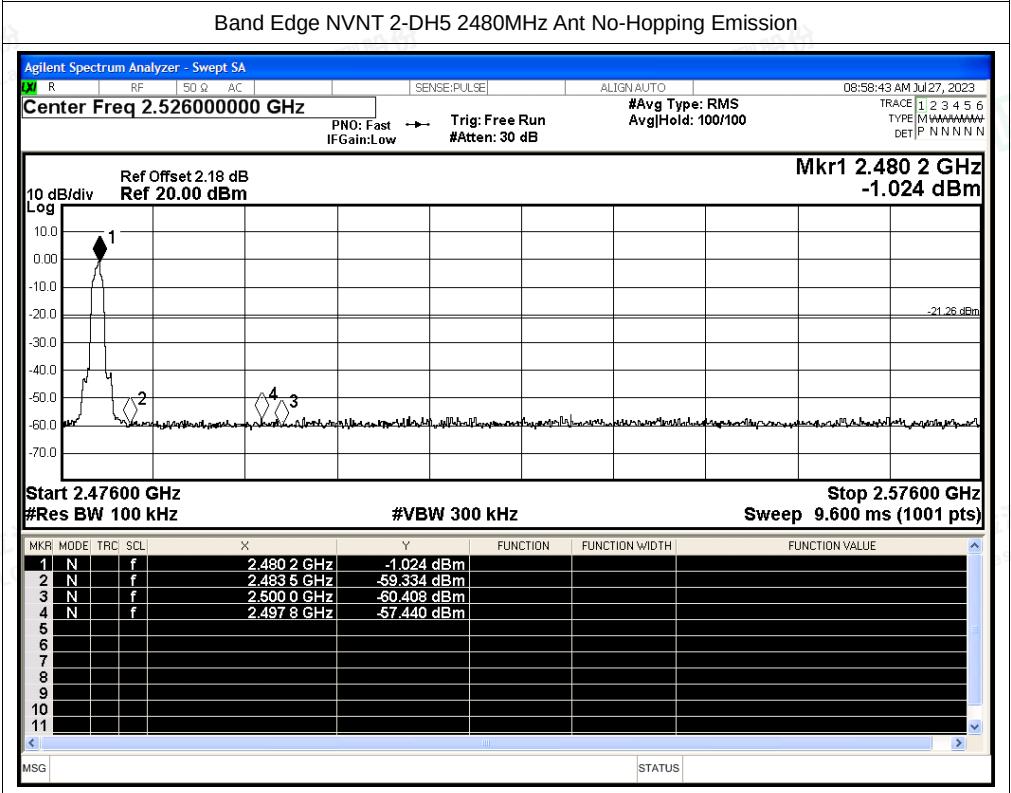
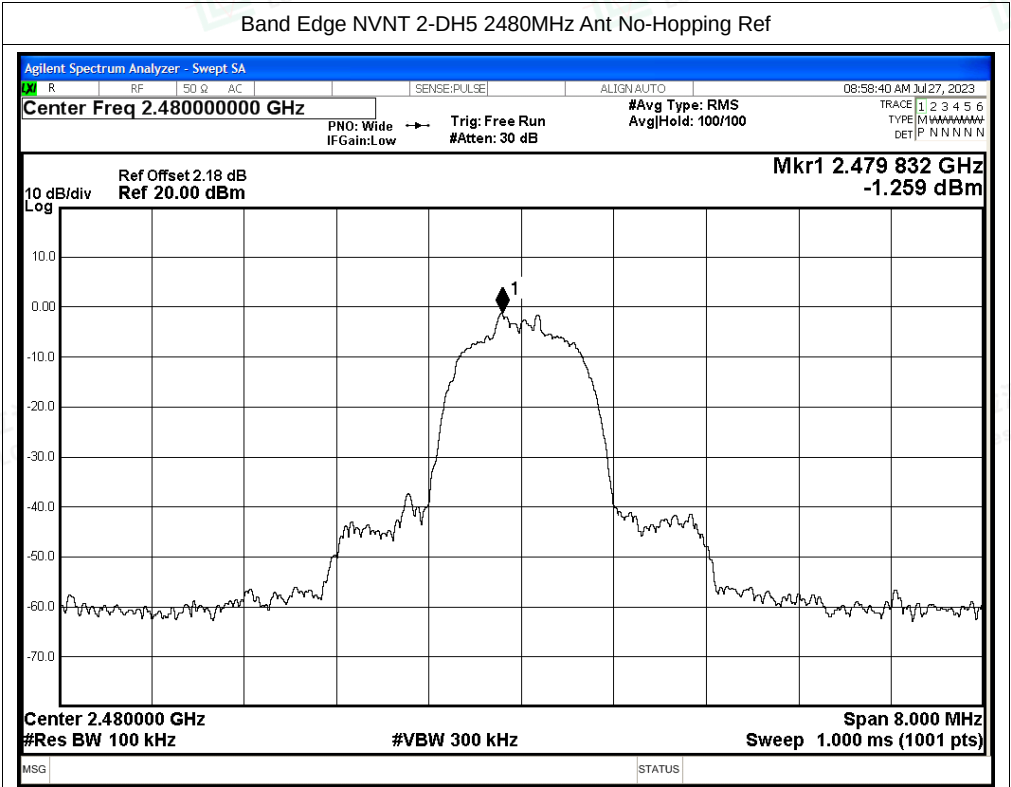
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	-55.05	-20	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	-56.9	-20	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	-54.36	-20	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	-56.18	-20	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	-54.22	-20	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	-54.1	-20	Pass

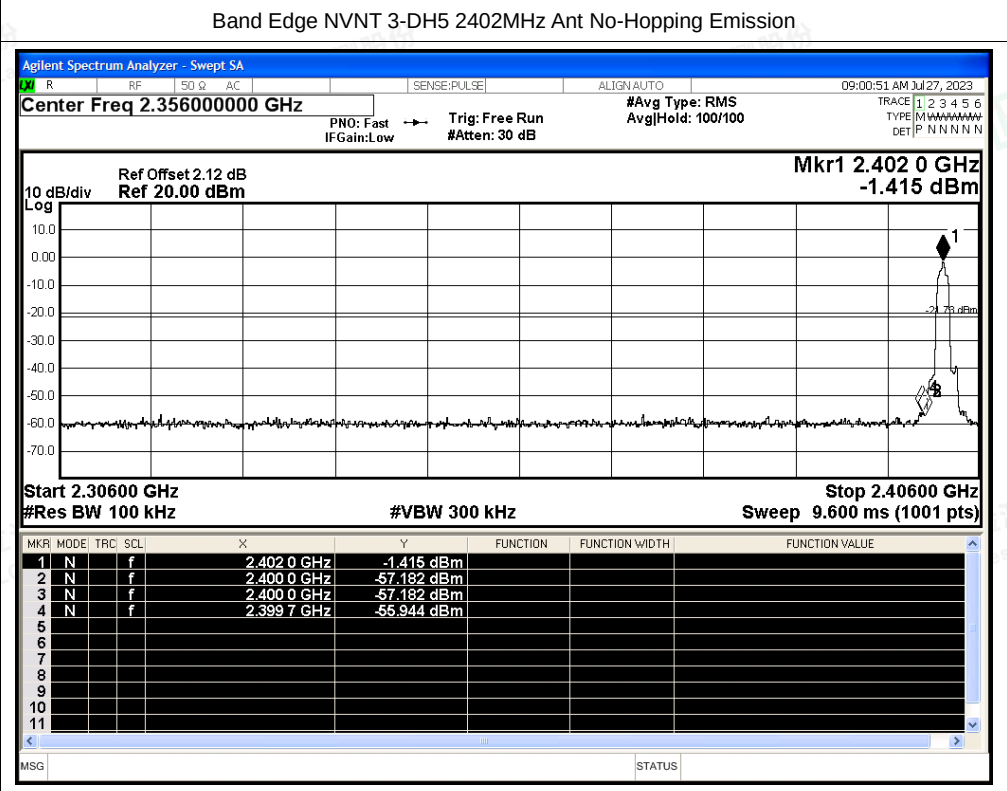
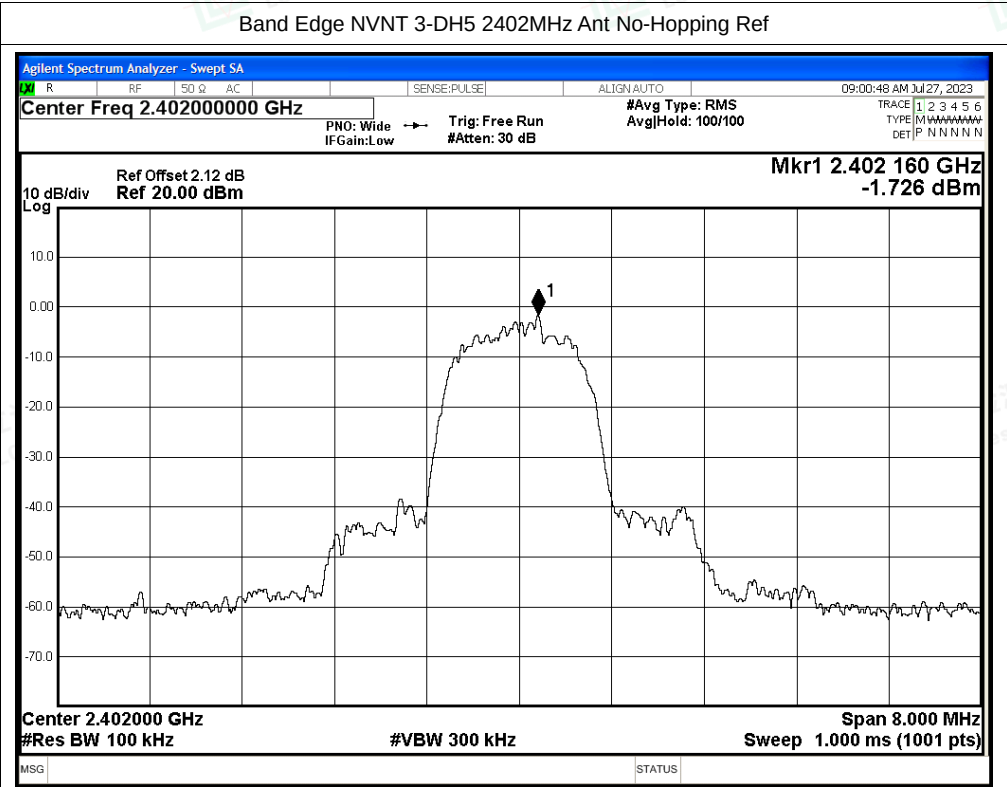


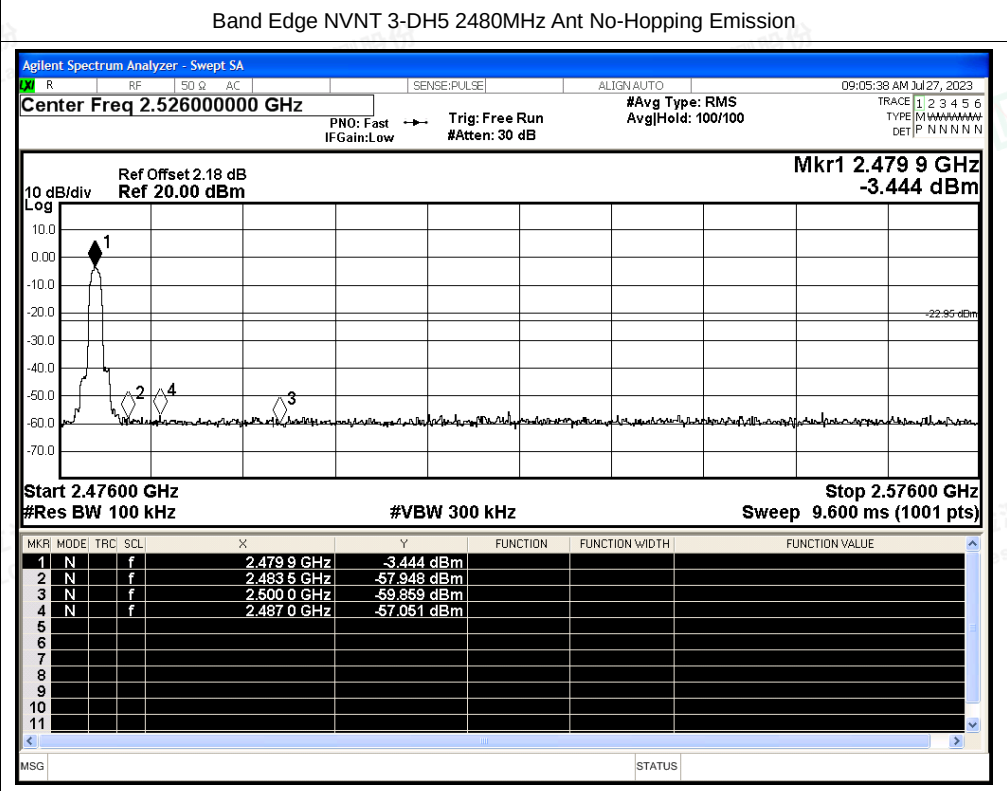
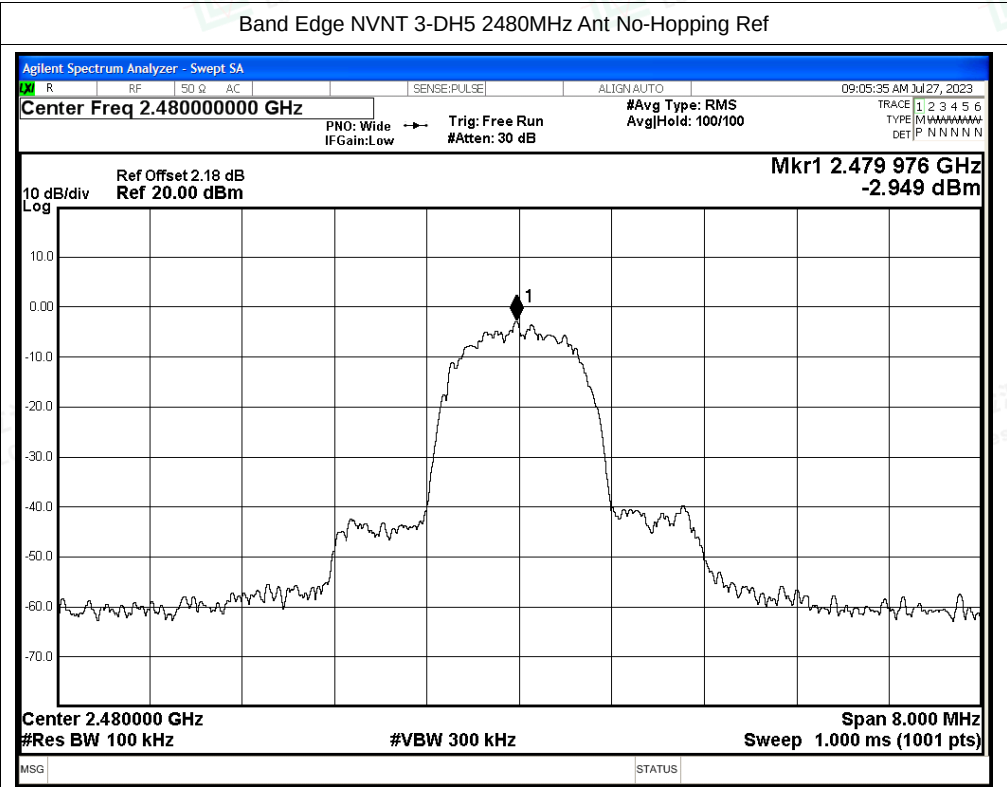










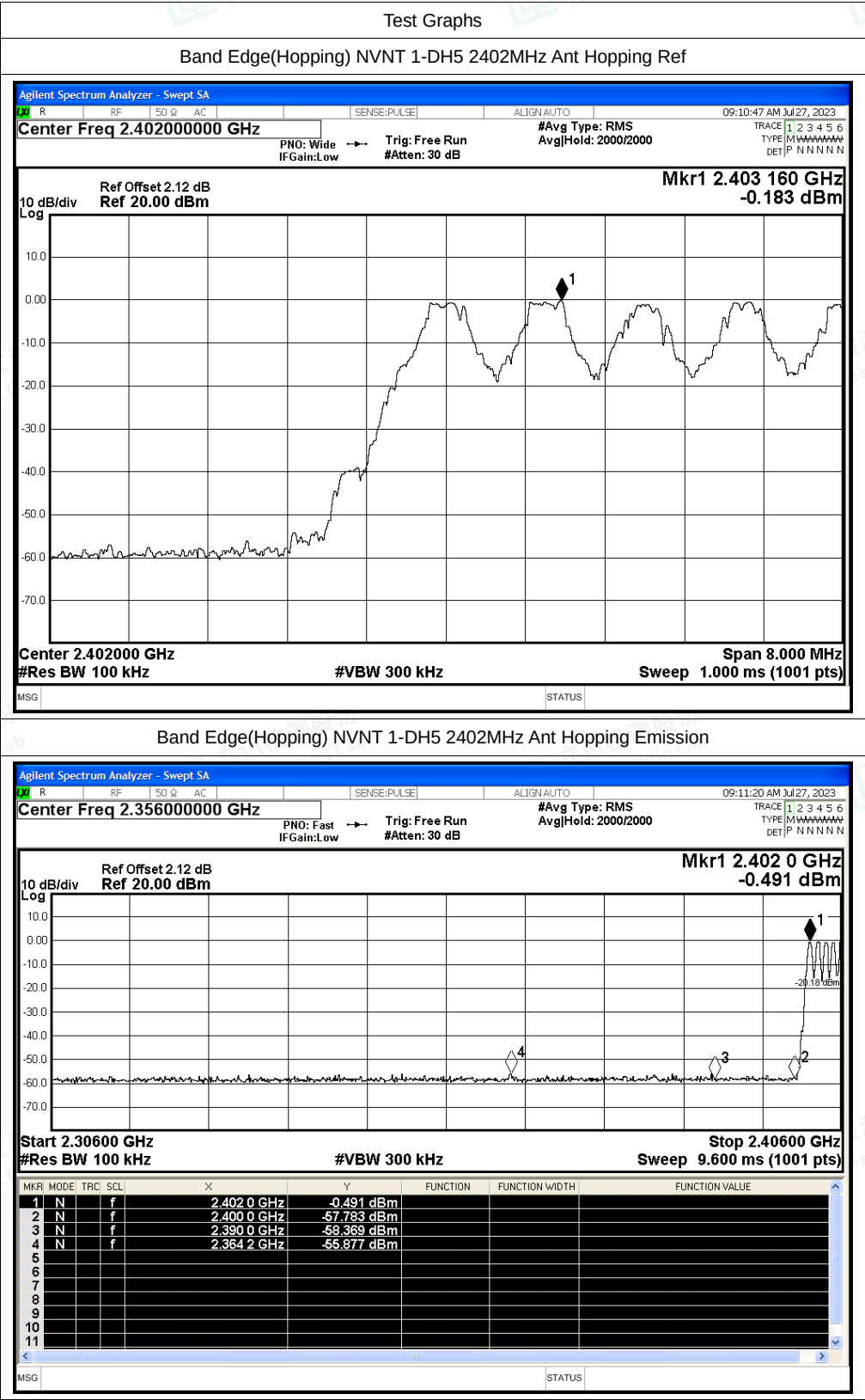


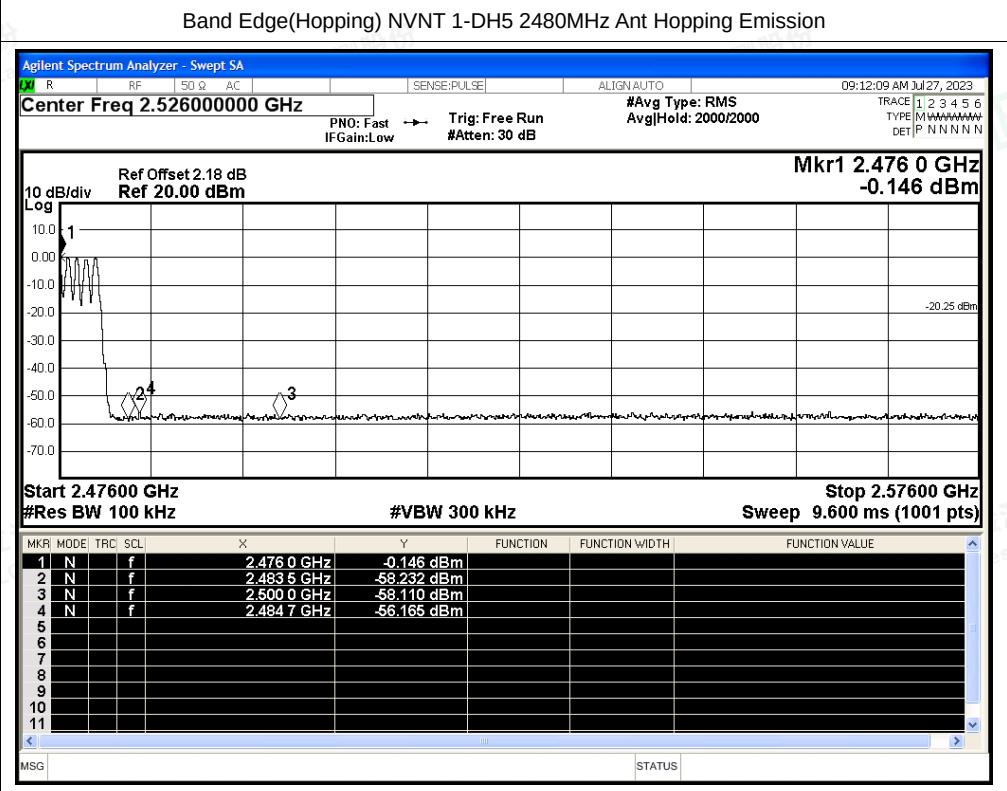
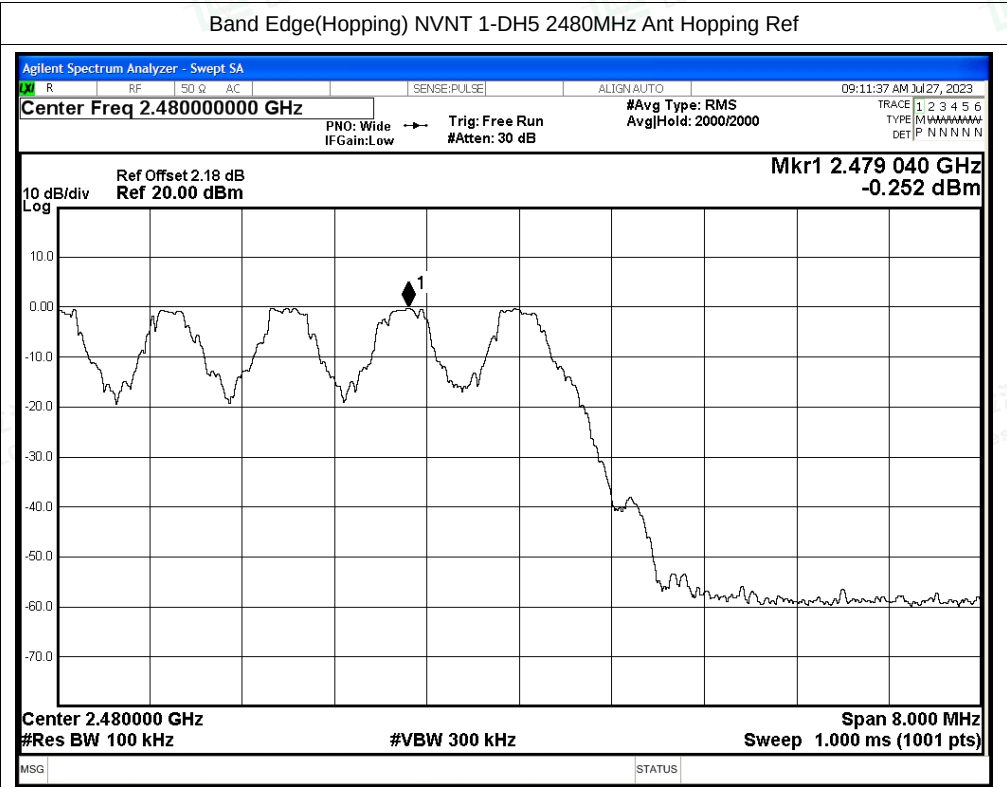


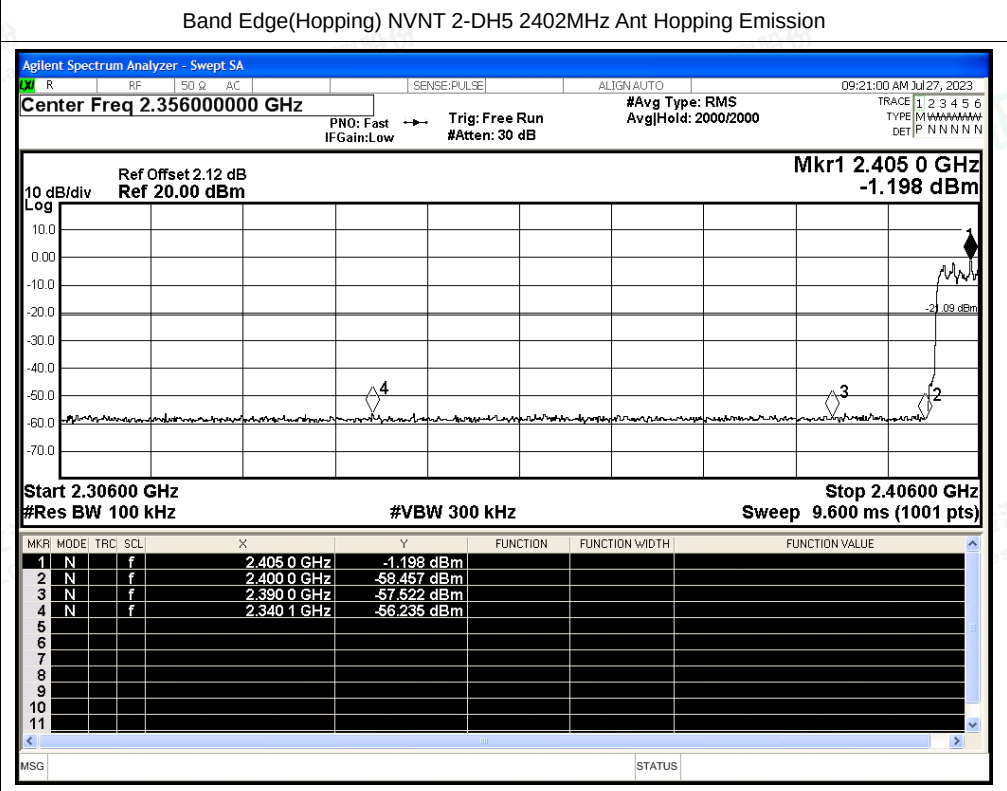
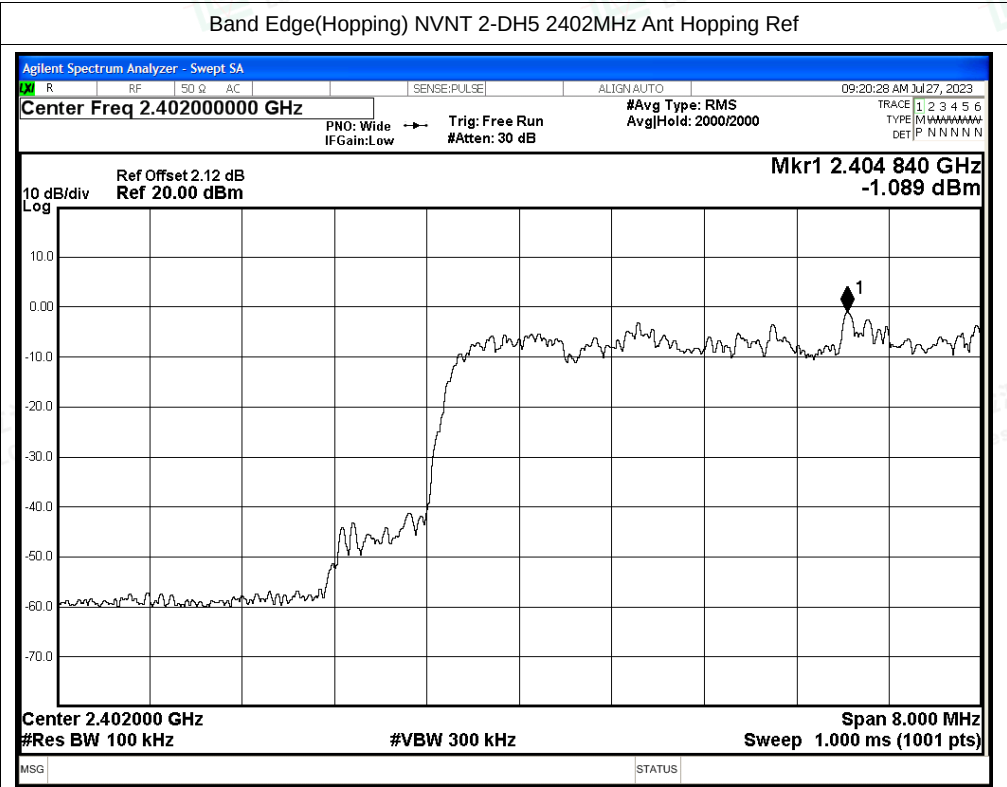
(Hopping)

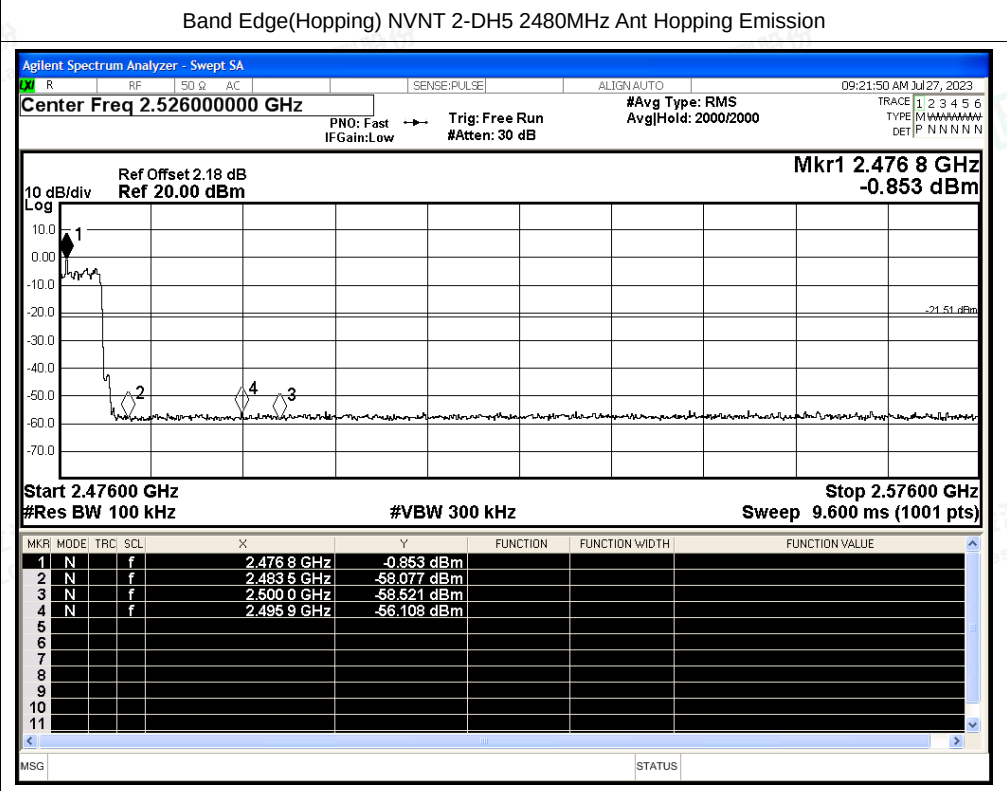
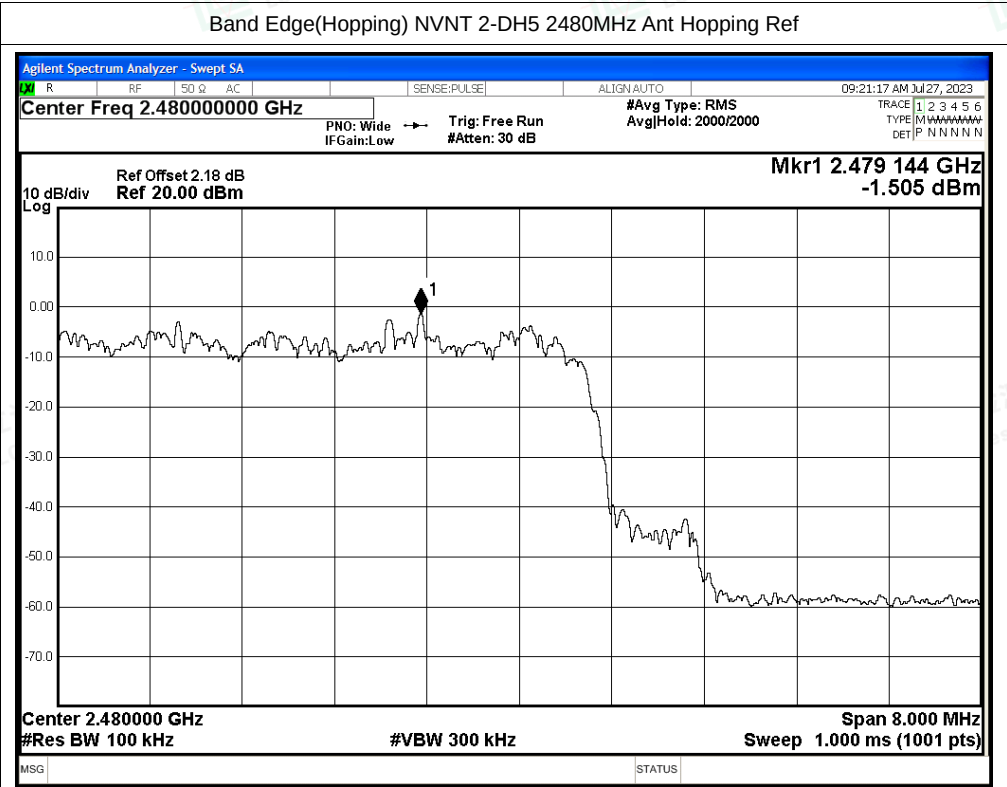
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	Hopping	-55.69	-20	Pass
NVNT	1-DH5	2480	Ant	Hopping	-55.91	-20	Pass
NVNT	2-DH5	2402	Ant	Hopping	-55.15	-20	Pass
NVNT	2-DH5	2480	Ant	Hopping	-54.6	-20	Pass
NVNT	3-DH5	2402	Ant	Hopping	-55.08	-20	Pass
NVNT	3-DH5	2480	Ant	Hopping	-55.31	-20	Pass

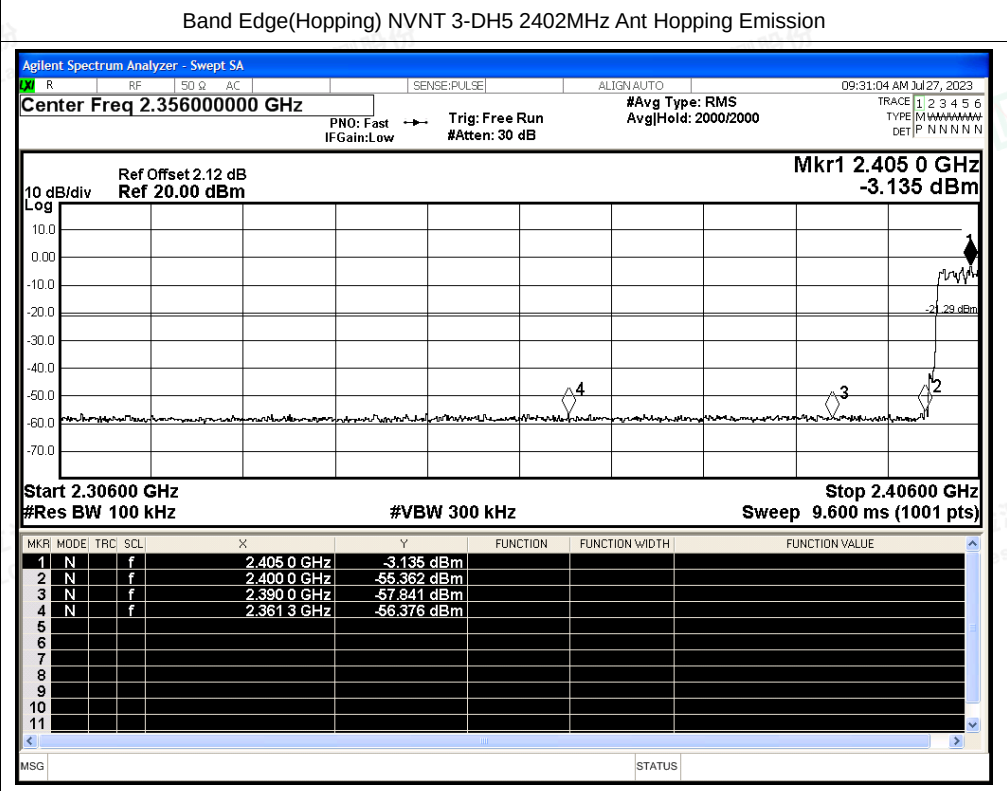
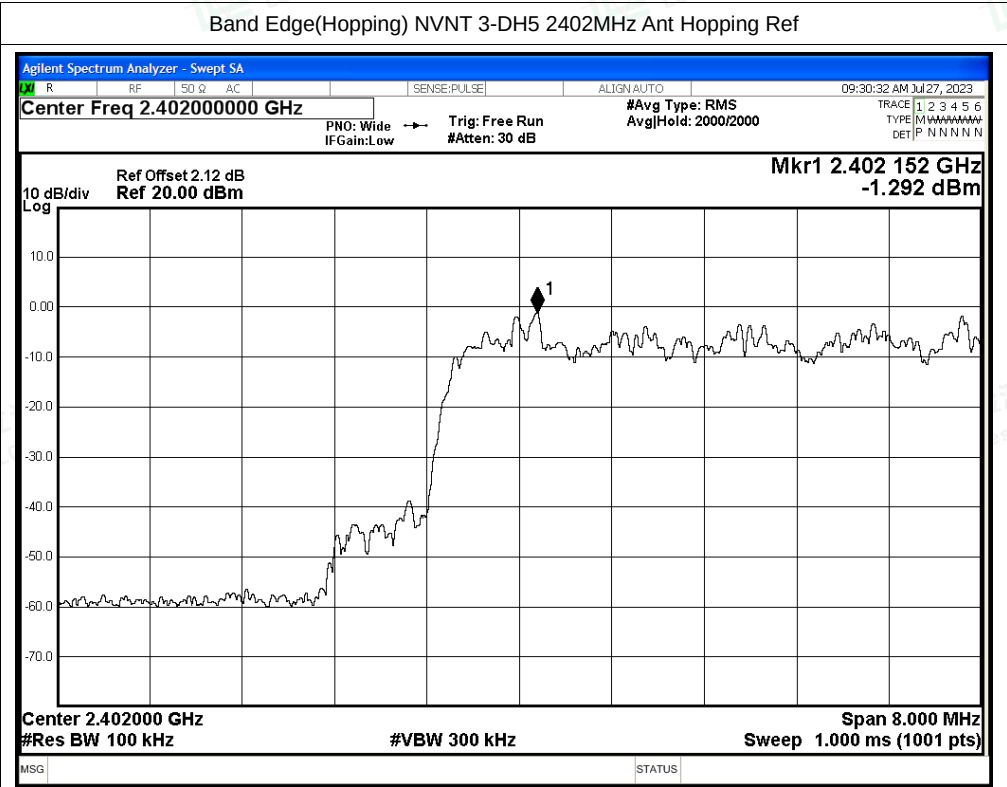


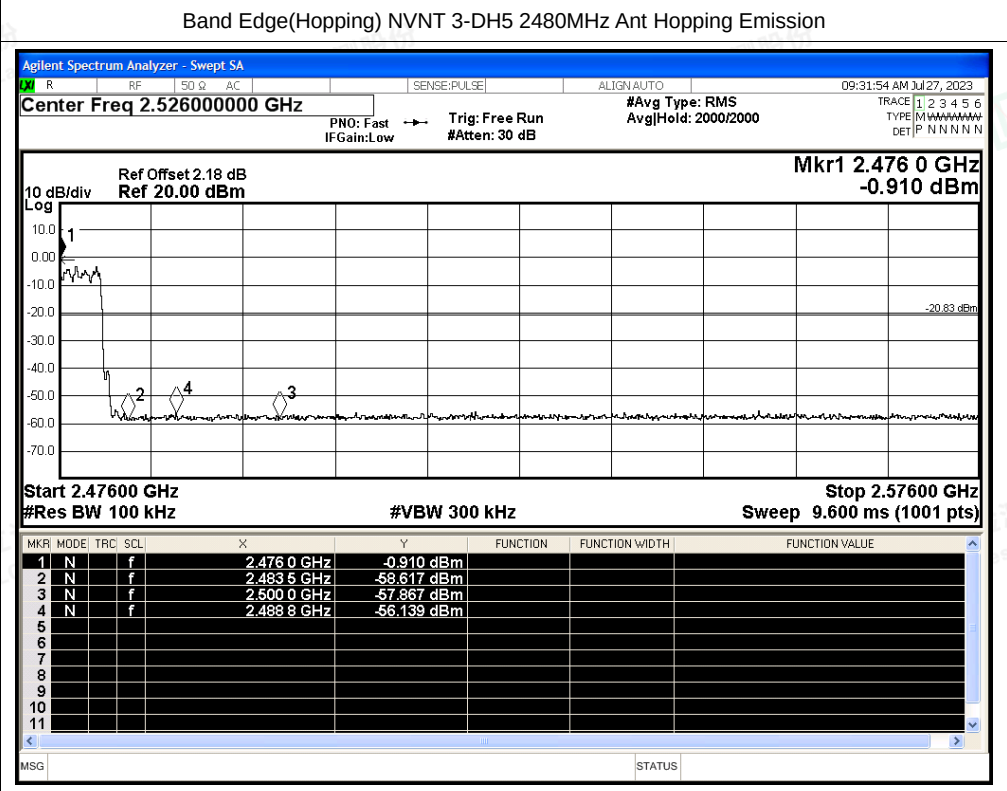
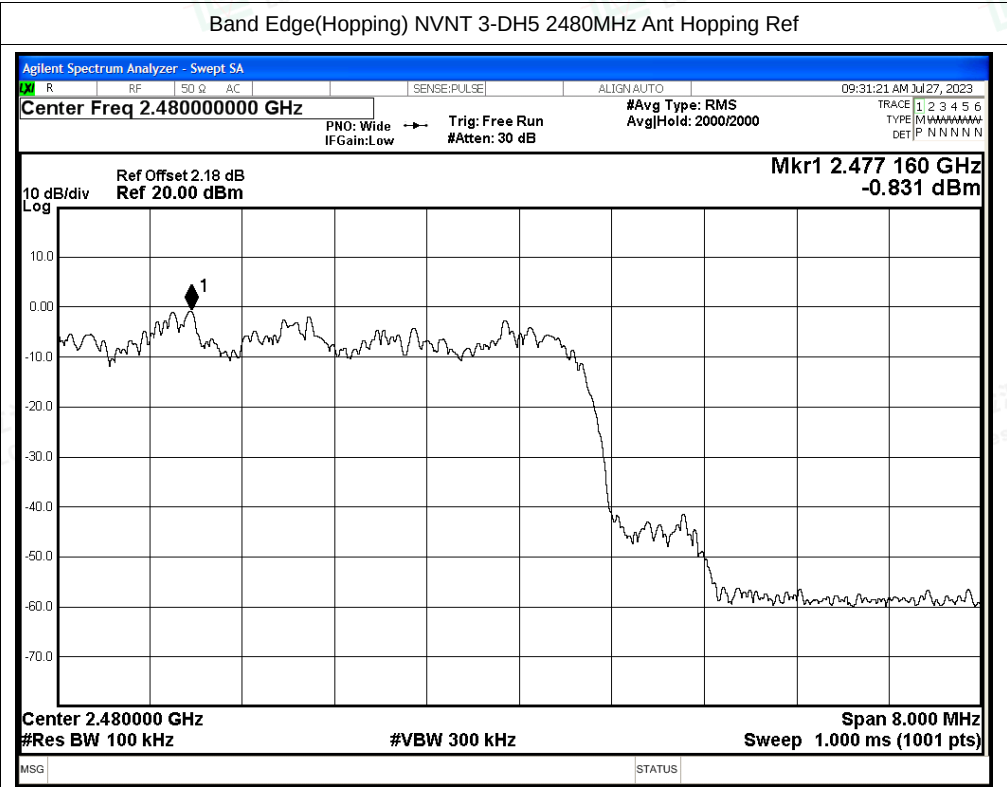










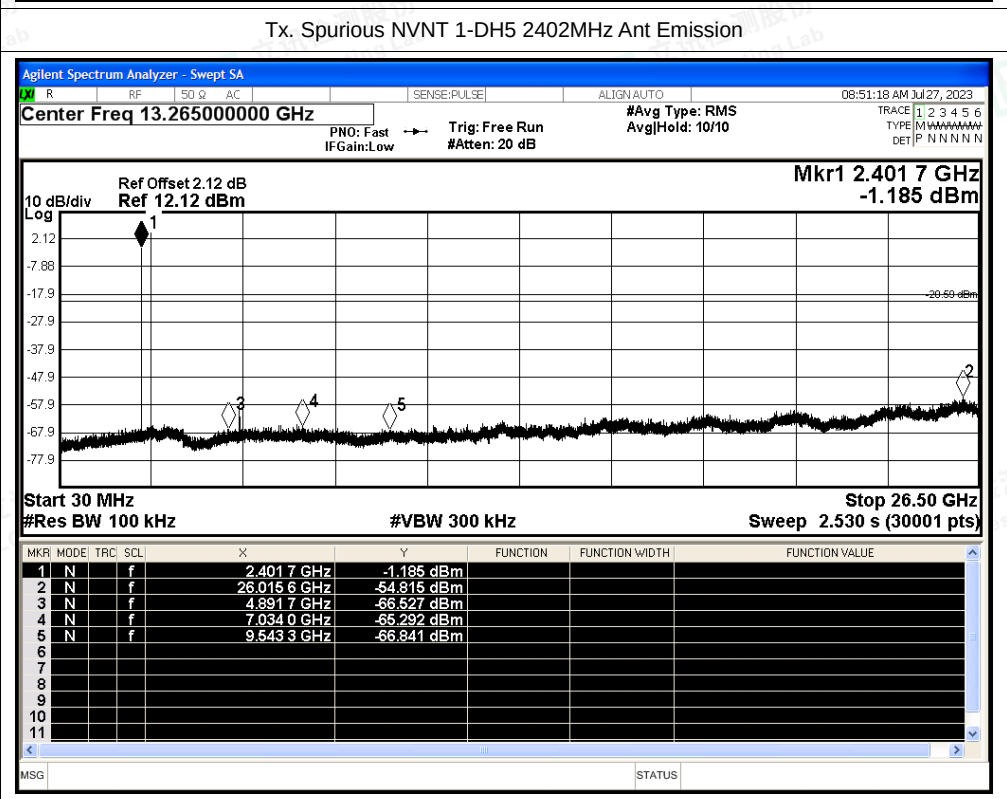
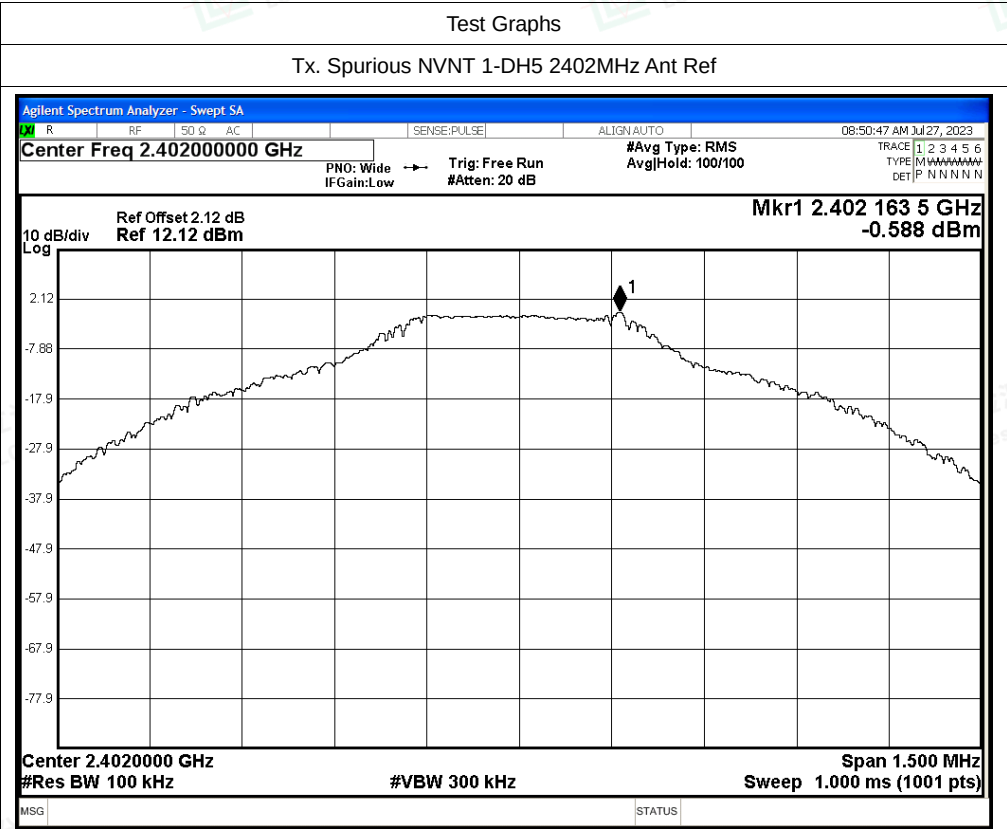


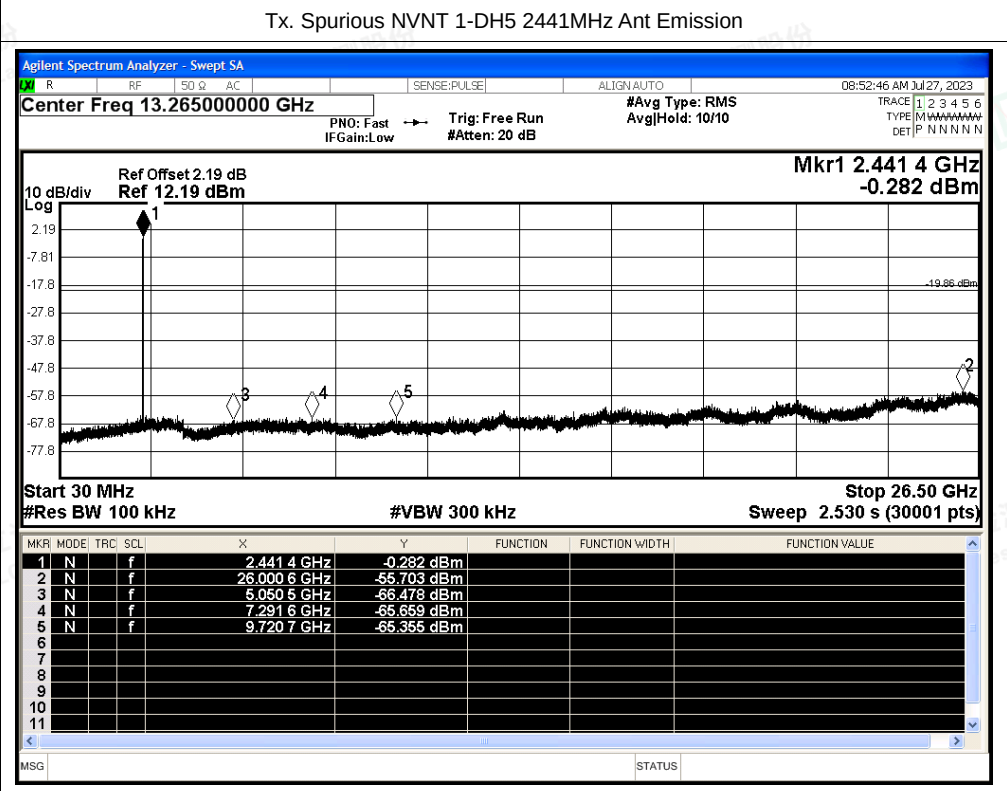
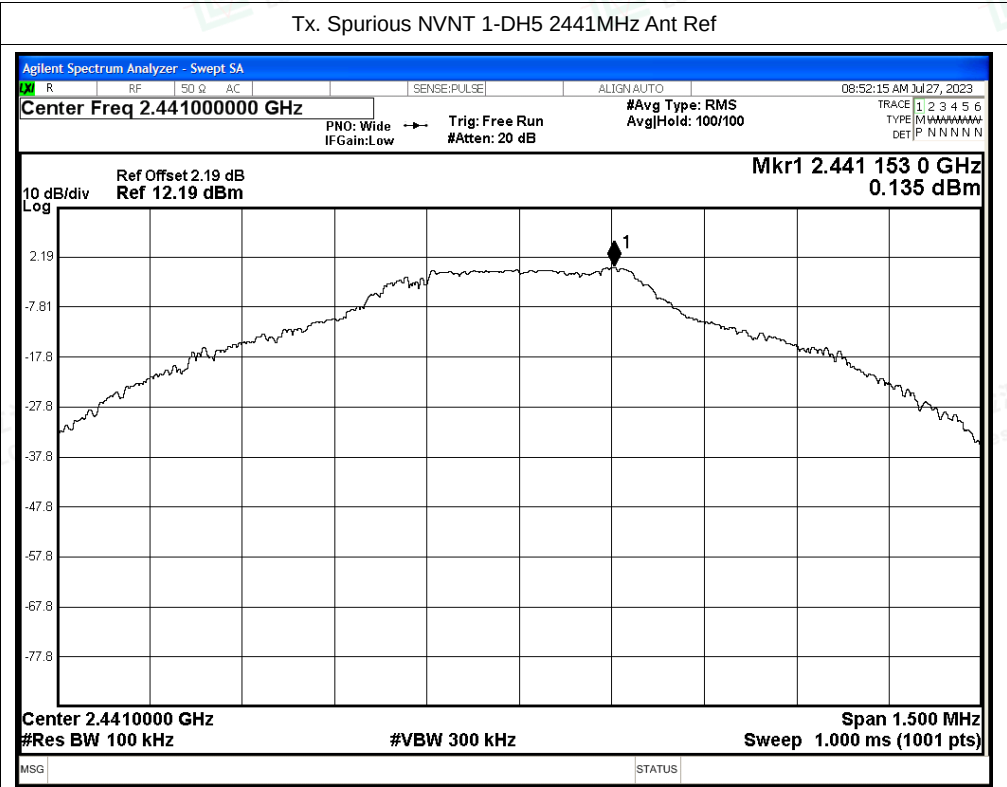


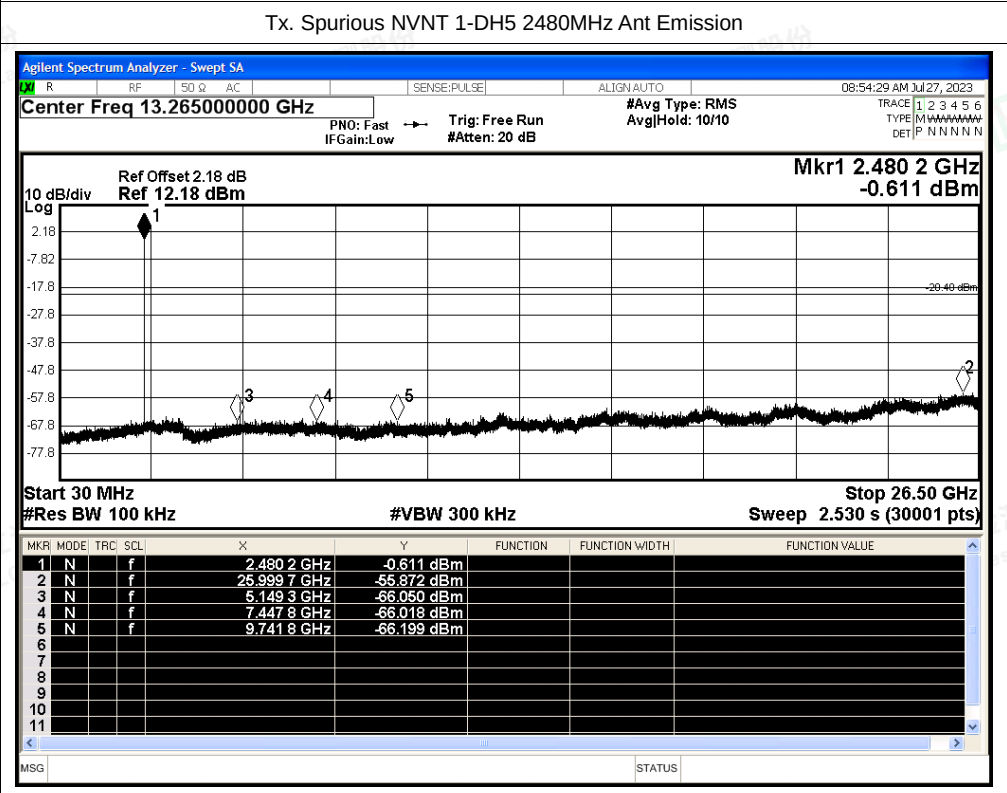
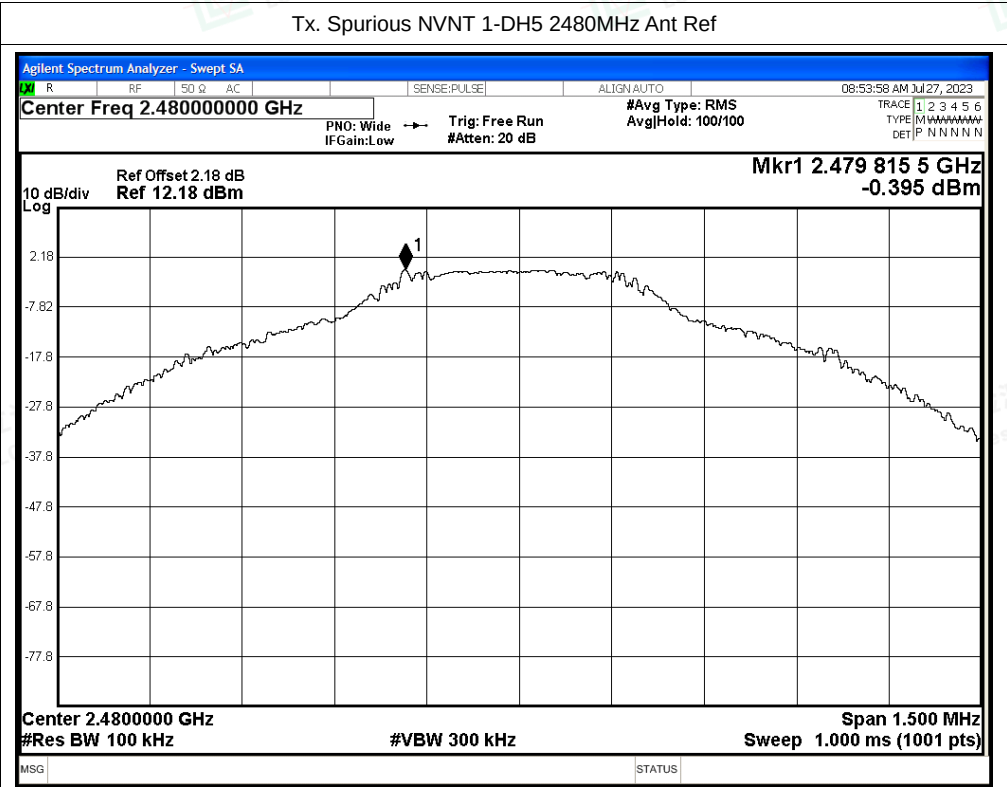
A.4 Conducted RF Spurious Emission

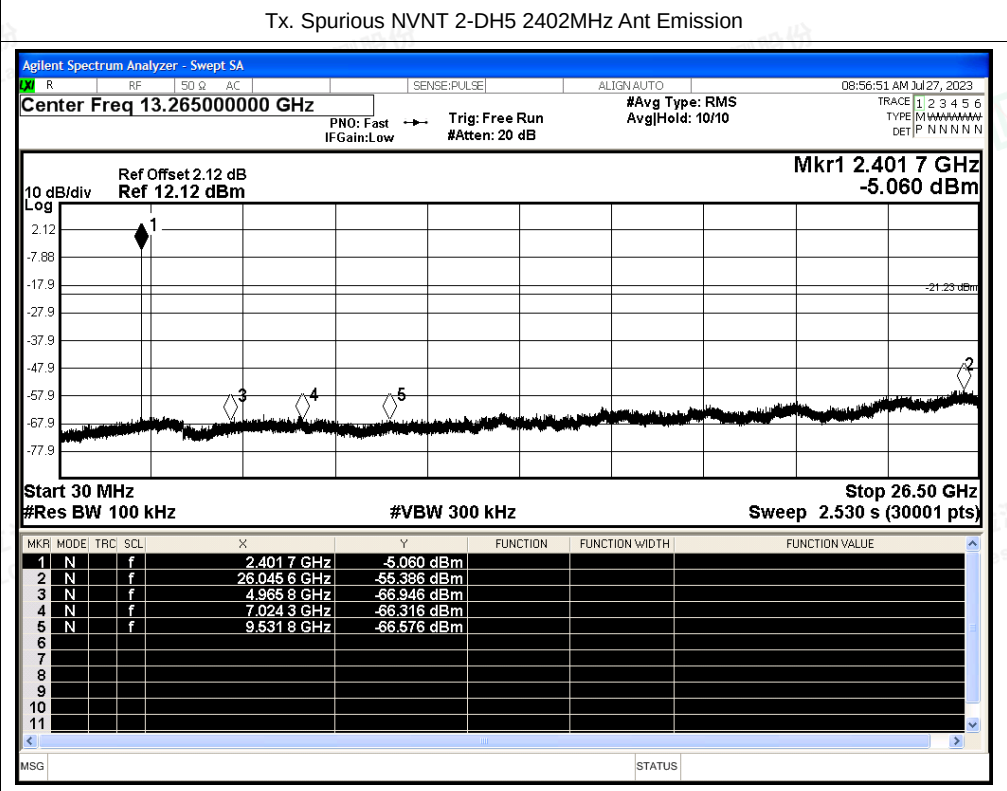
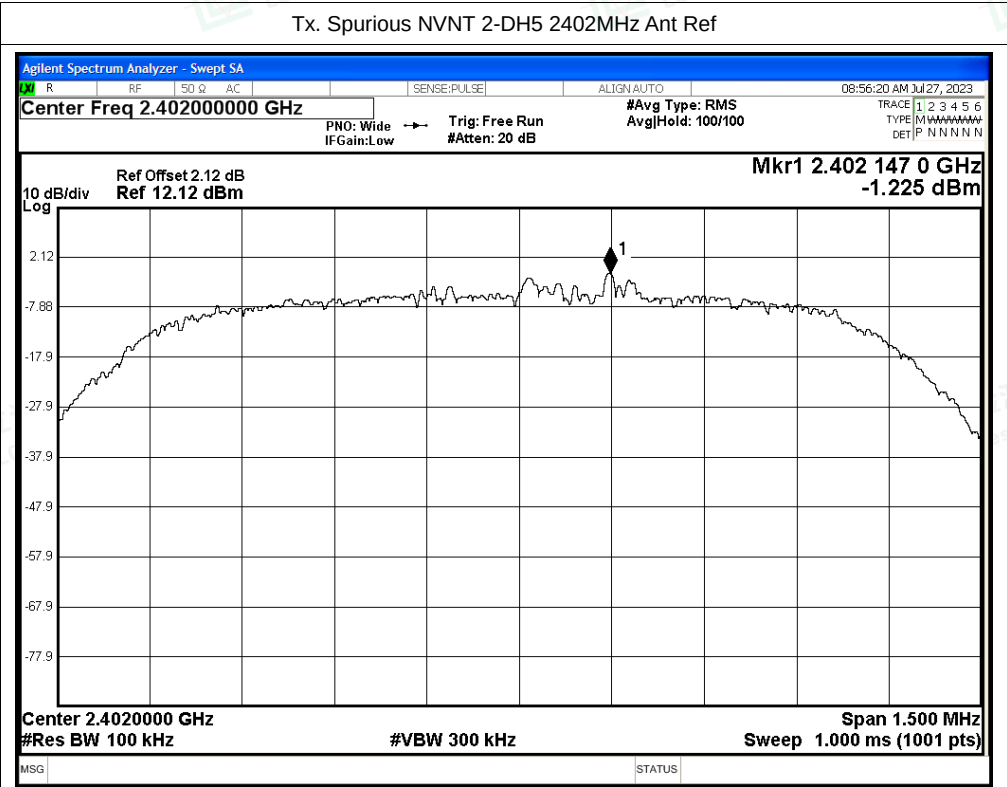
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	-54.23	-20	Pass
NVNT	1-DH5	2441	Ant	-55.84	-20	Pass
NVNT	1-DH5	2480	Ant	-55.48	-20	Pass
NVNT	2-DH5	2402	Ant	-54.16	-20	Pass
NVNT	2-DH5	2441	Ant	-54.74	-20	Pass
NVNT	2-DH5	2480	Ant	-53.4	-20	Pass
NVNT	3-DH5	2402	Ant	-54.16	-20	Pass
NVNT	3-DH5	2441	Ant	-55.02	-20	Pass
NVNT	3-DH5	2480	Ant	-54.49	-20	Pass

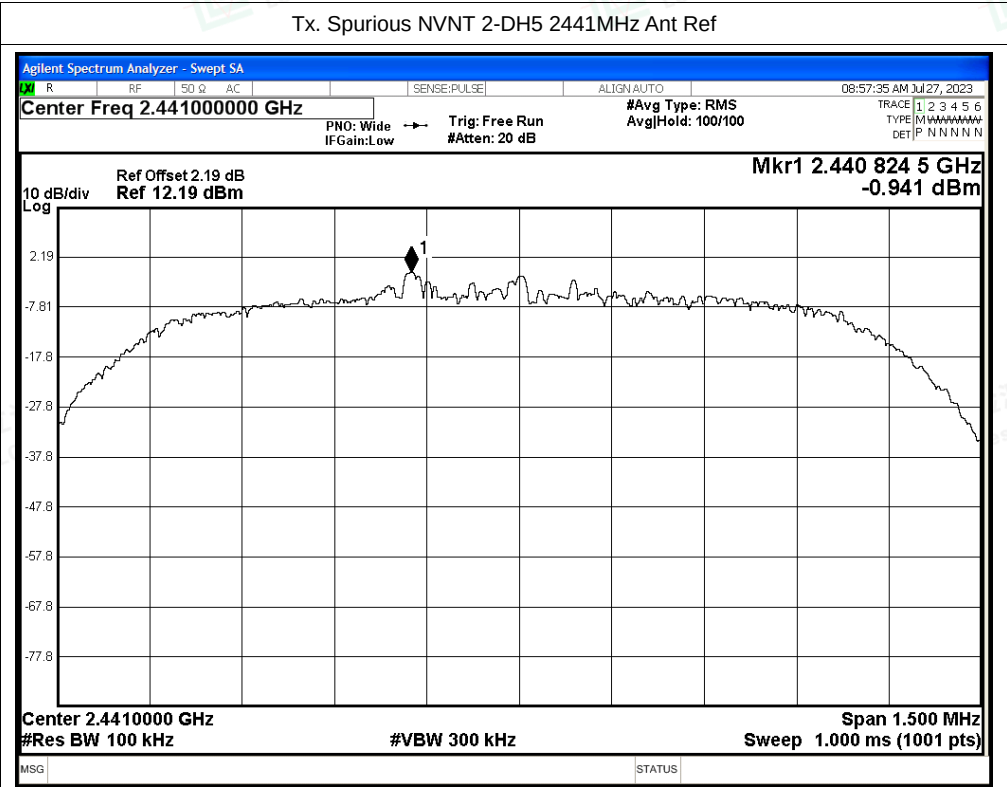




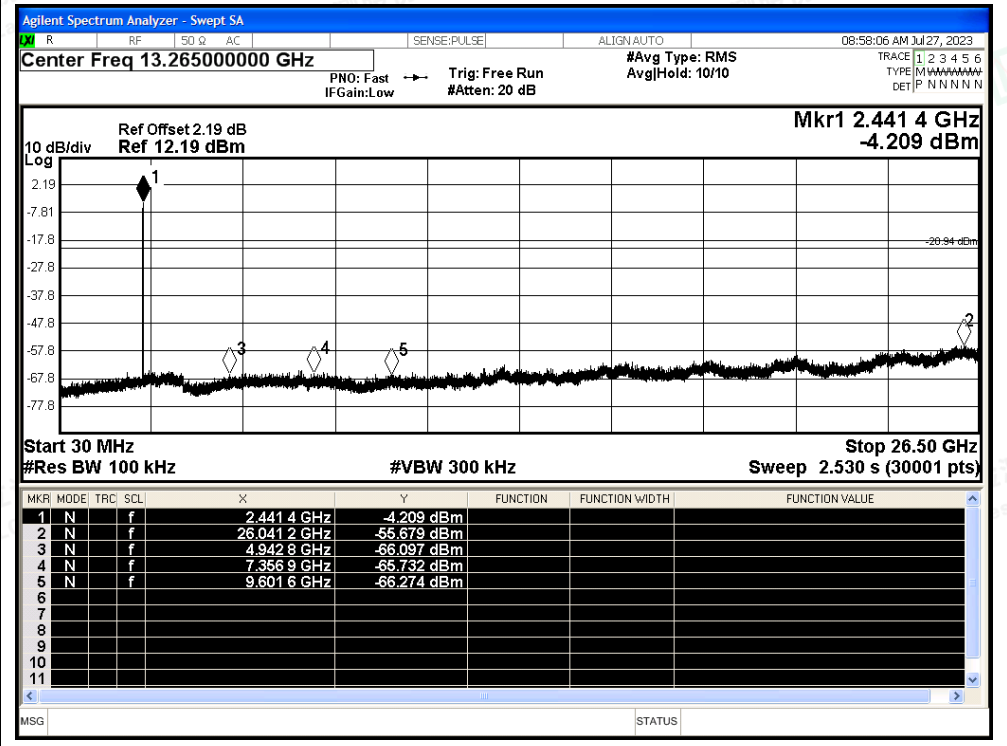


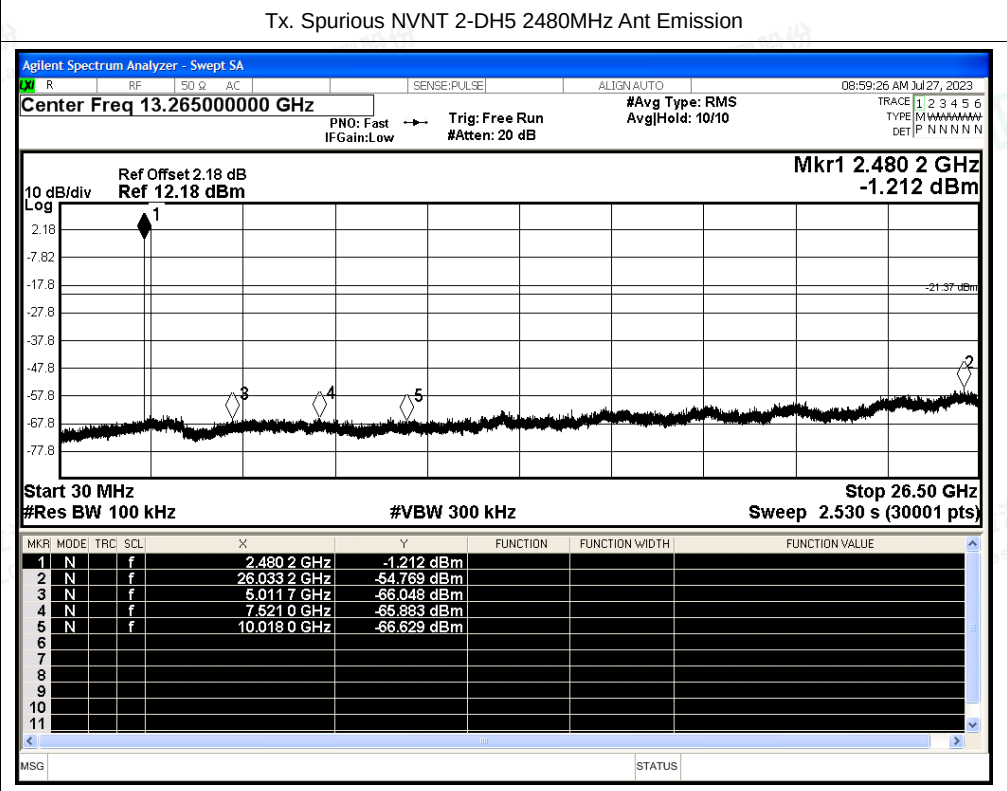
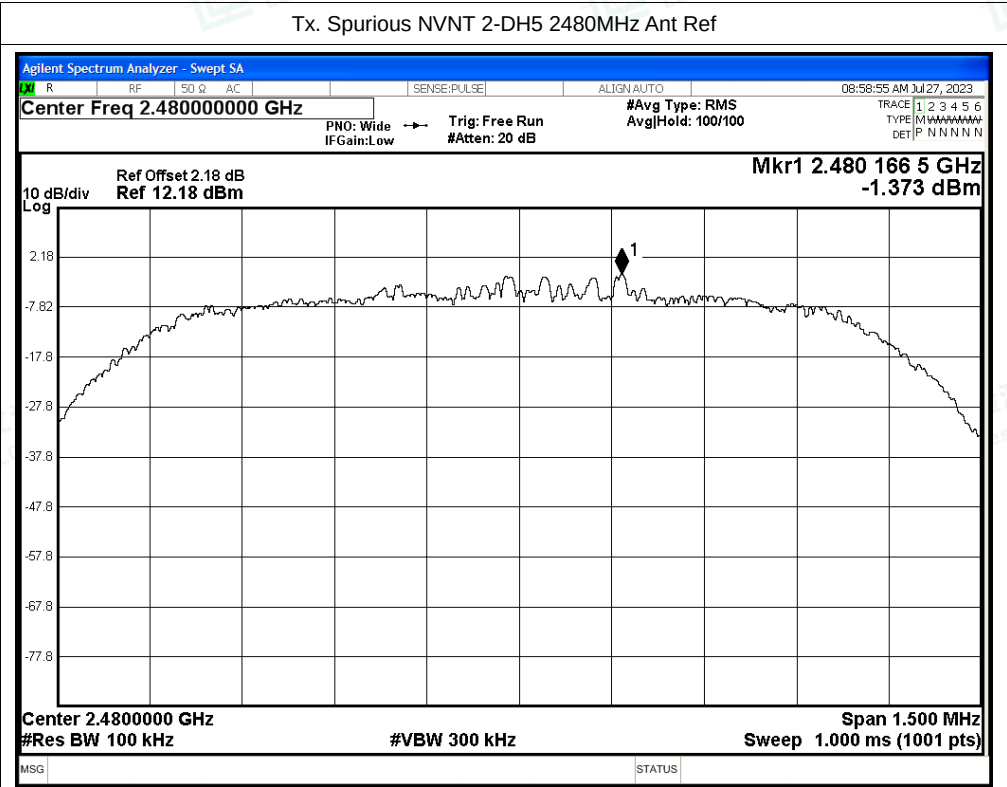


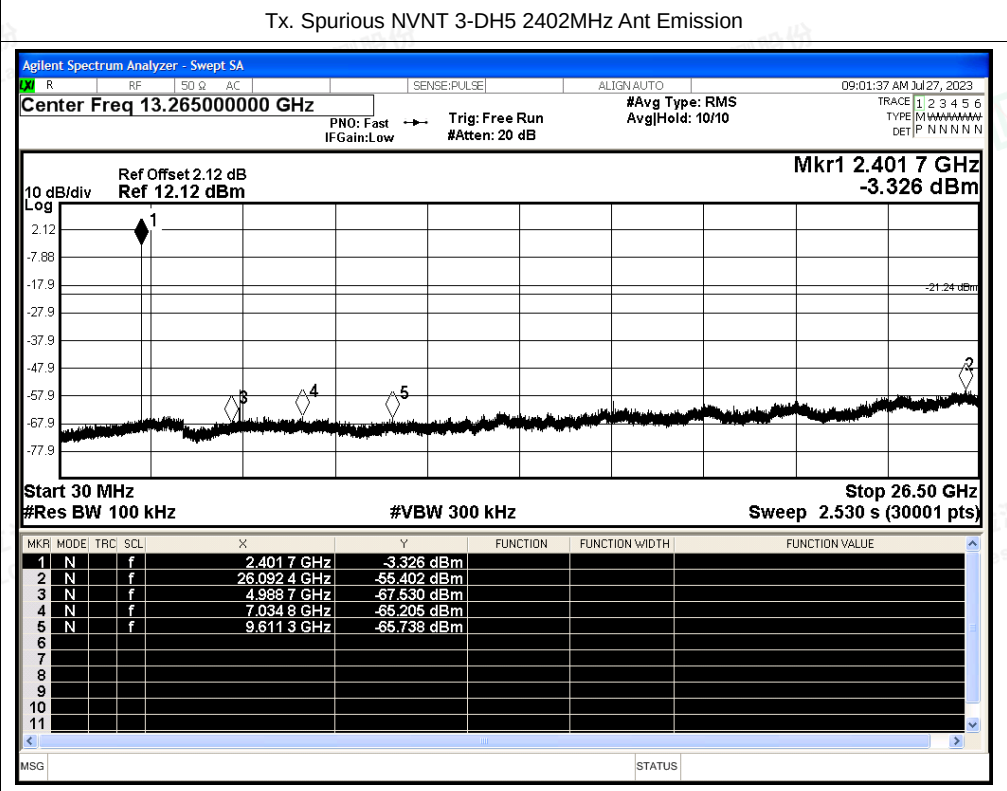
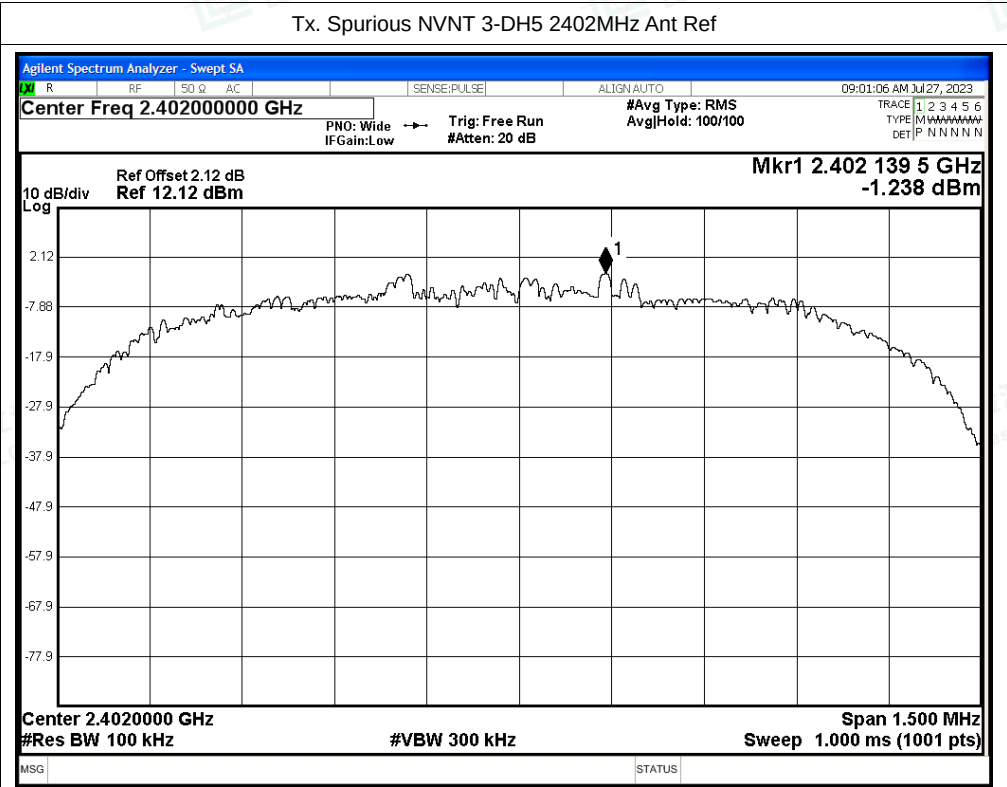


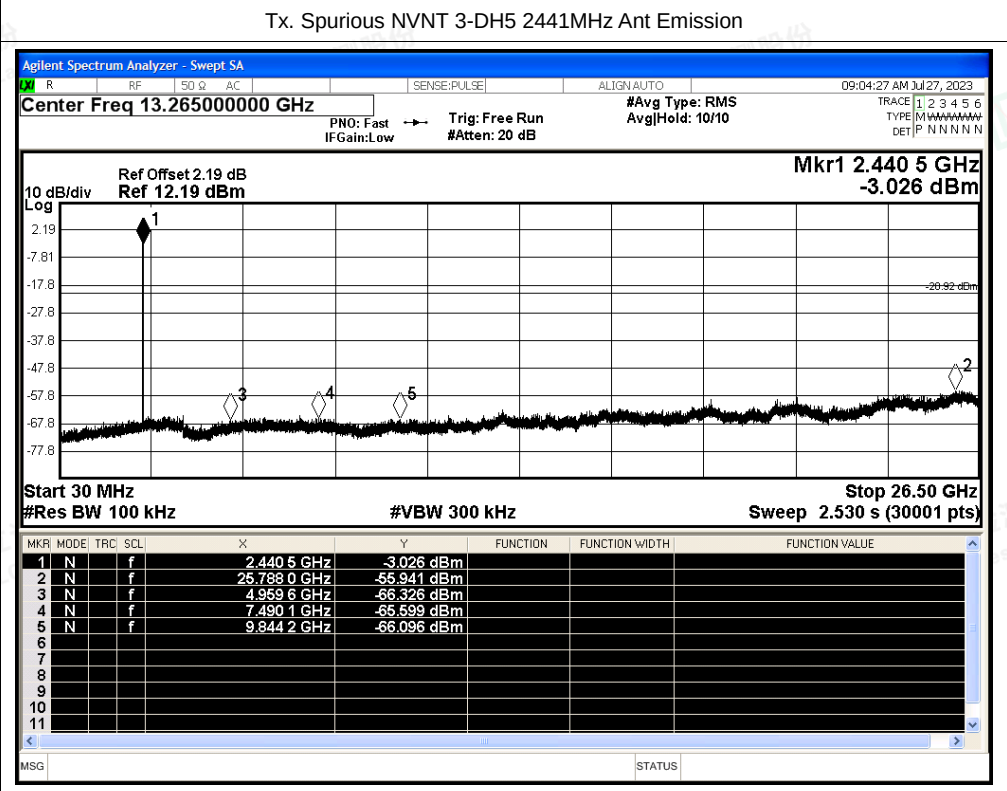
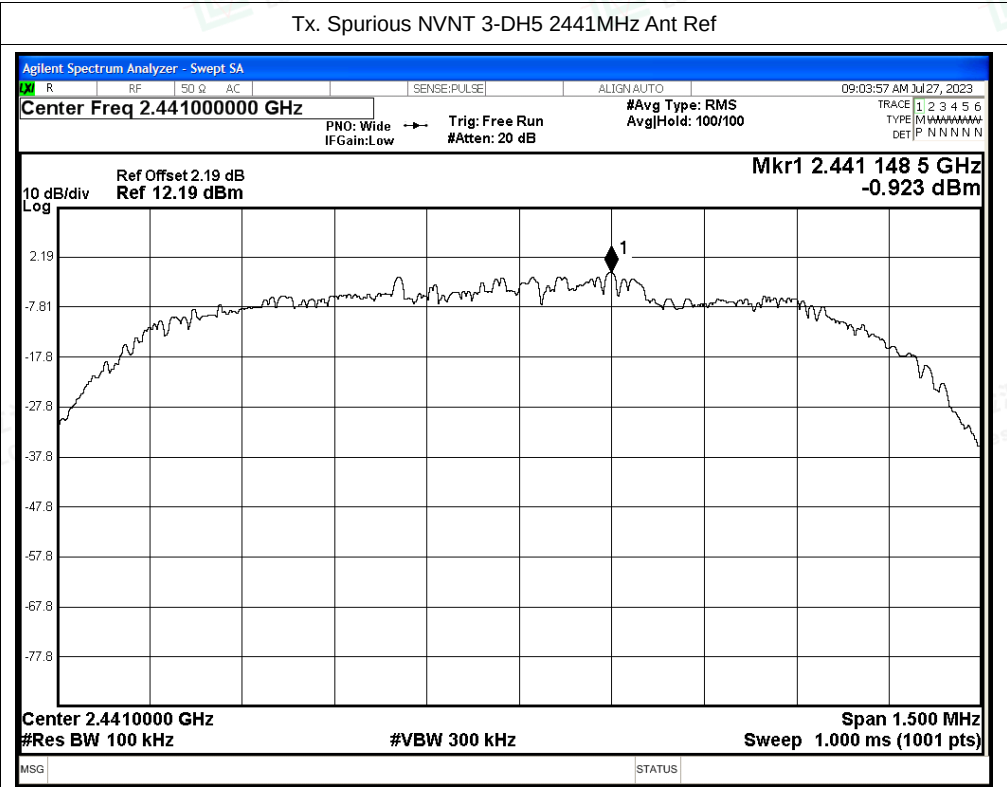


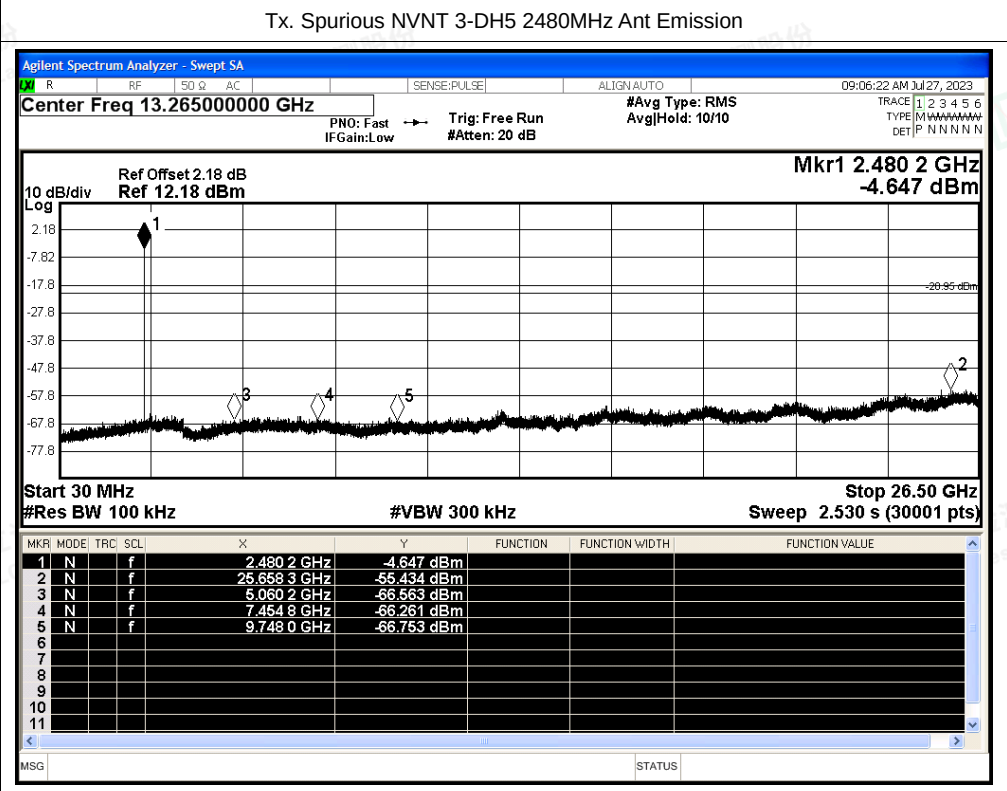
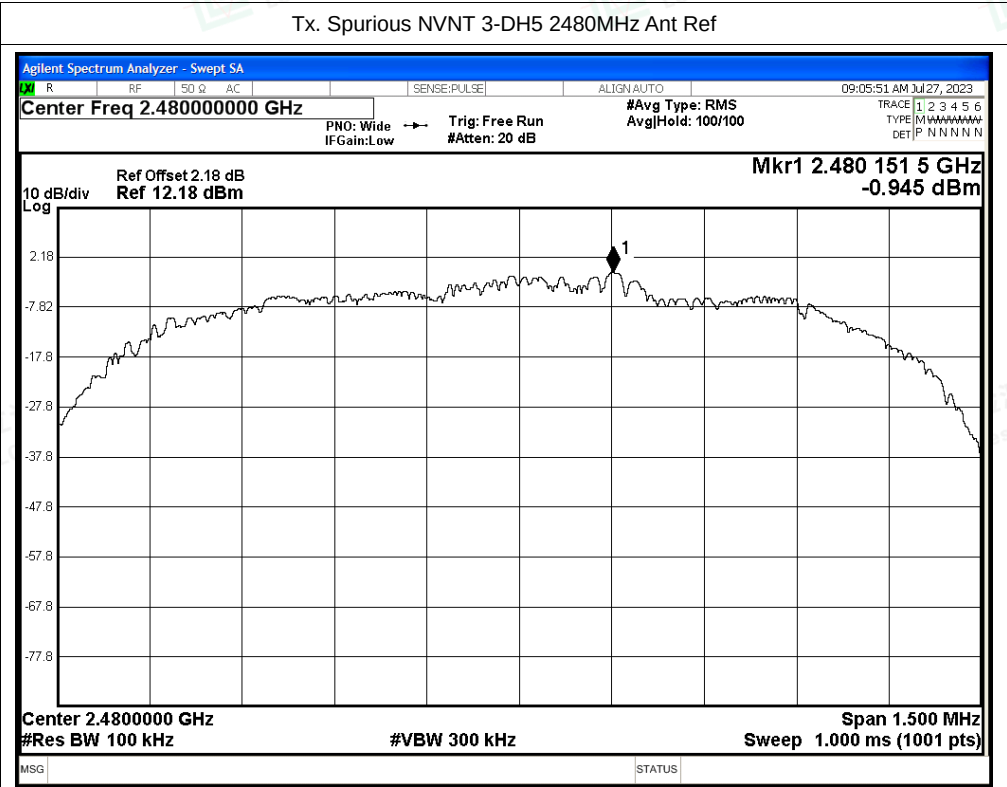
Tx. Spurious NVNT 2-DH5 2441MHz Ant Emission











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	Ant	No-Hopping	2310	-50.95	2	46.31	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-58.09	2	39.17	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2381.232	-47.74	2	49.52	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2389.296	-57.51	2	39.75	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-48.8	2	48.46	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-57.56	2	39.7	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-49.95	2	47.31	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-55.75	2	41.51	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2491.408	-46.86	2	50.4	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.512	-55.75	2	41.51	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-49.93	2	47.33	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-57.38	2	39.88	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-51.9	2	45.36	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-57.82	2	39.44	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2371.824	-47.79	2	49.47	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2386.512	-57.5	2	39.76	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-51.67	2	45.59	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-57.62	2	39.64	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-50.52	2	46.74	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-55.64	2	41.62	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2486.416	-47.39	2	49.87	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.512	-55.64	2	41.62	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-49.94	2	47.32	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-57.26	2	40	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-50.19	2	47.07	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-57.94	2	39.32	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2384.016	-46.63	2	50.63	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2365.584	-57.46	2	39.8	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-49.73	2	47.53	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-57.66	2	39.6	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-50.6	2	46.66	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-55.65	2	41.61	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2494.696	-47.03	2	50.23	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.512	-55.65	2	41.61	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-49.56	2	47.7	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-57.44	2	39.82	Average	54	Pass



