



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: PARTY SPEAKER

Test Model: MW-T280

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Taylor Hu





A.1 -20dB Bandwidth

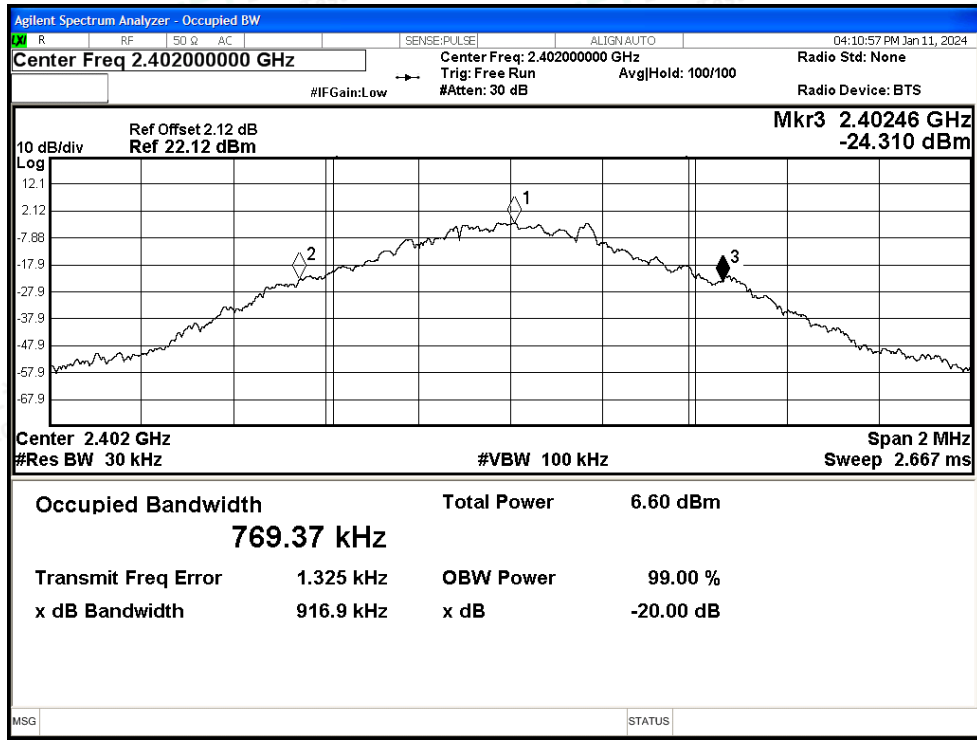
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant	0.917	N/A	Pass
NVNT	1-DH5	2441	Ant	0.847	N/A	Pass
NVNT	1-DH5	2480	Ant	0.843	N/A	Pass
NVNT	2-DH5	2402	Ant	1.311	N/A	Pass
NVNT	2-DH5	2441	Ant	1.263	N/A	Pass
NVNT	2-DH5	2480	Ant	1.268	N/A	Pass
NVNT	3-DH5	2402	Ant	1.301	N/A	Pass
NVNT	3-DH5	2441	Ant	1.296	N/A	Pass
NVNT	3-DH5	2480	Ant	1.288	N/A	Pass



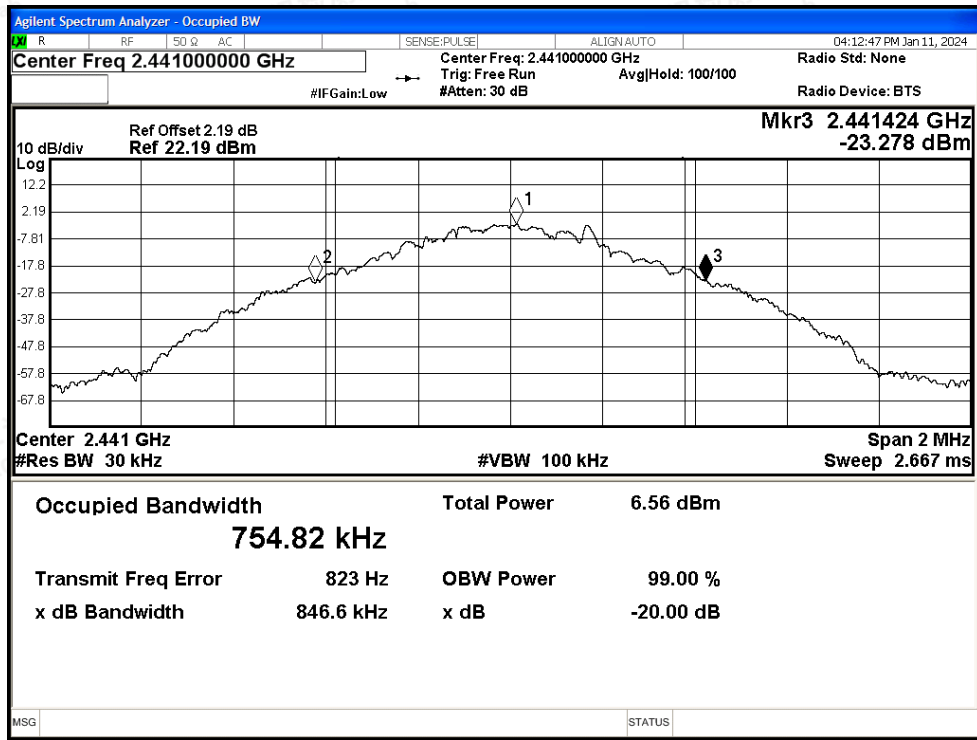


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant

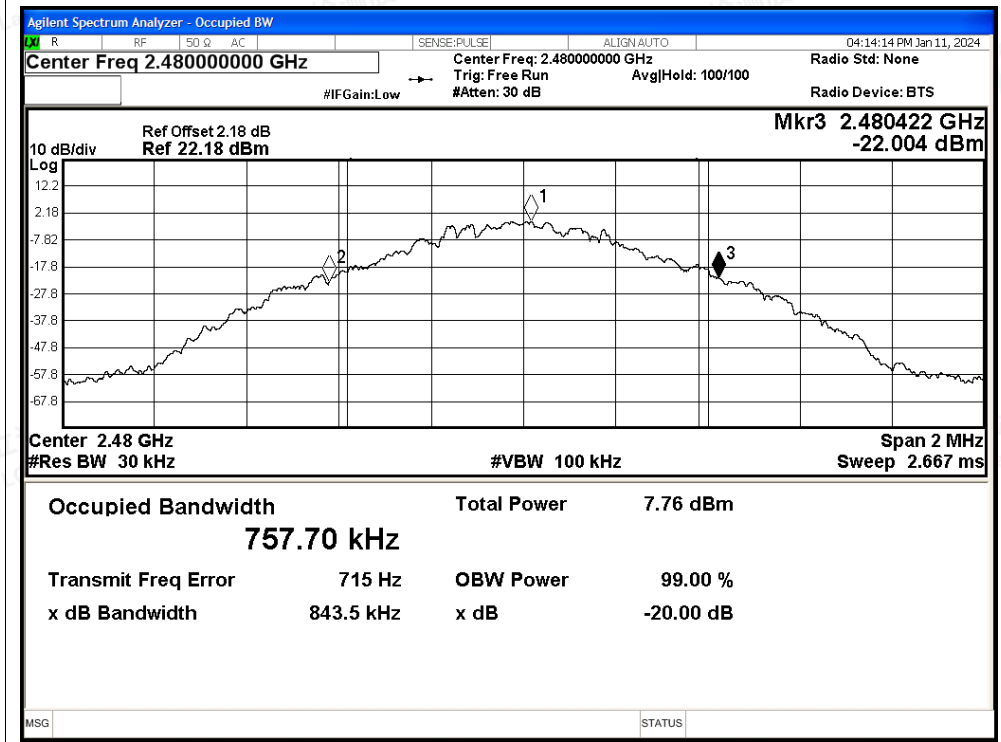


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant

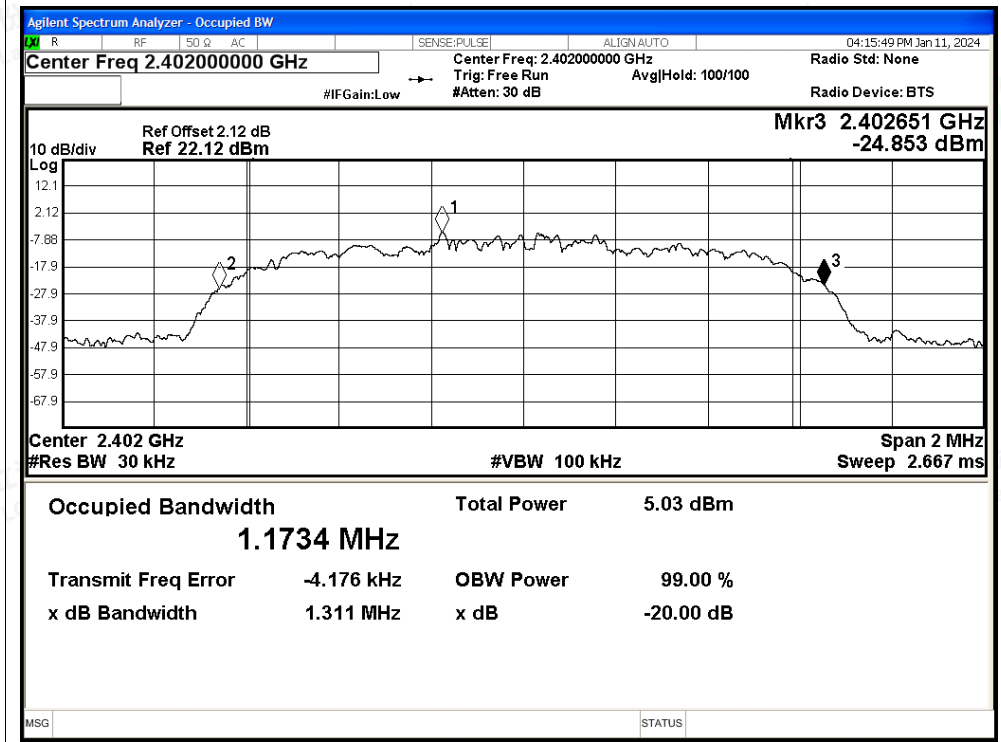




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant

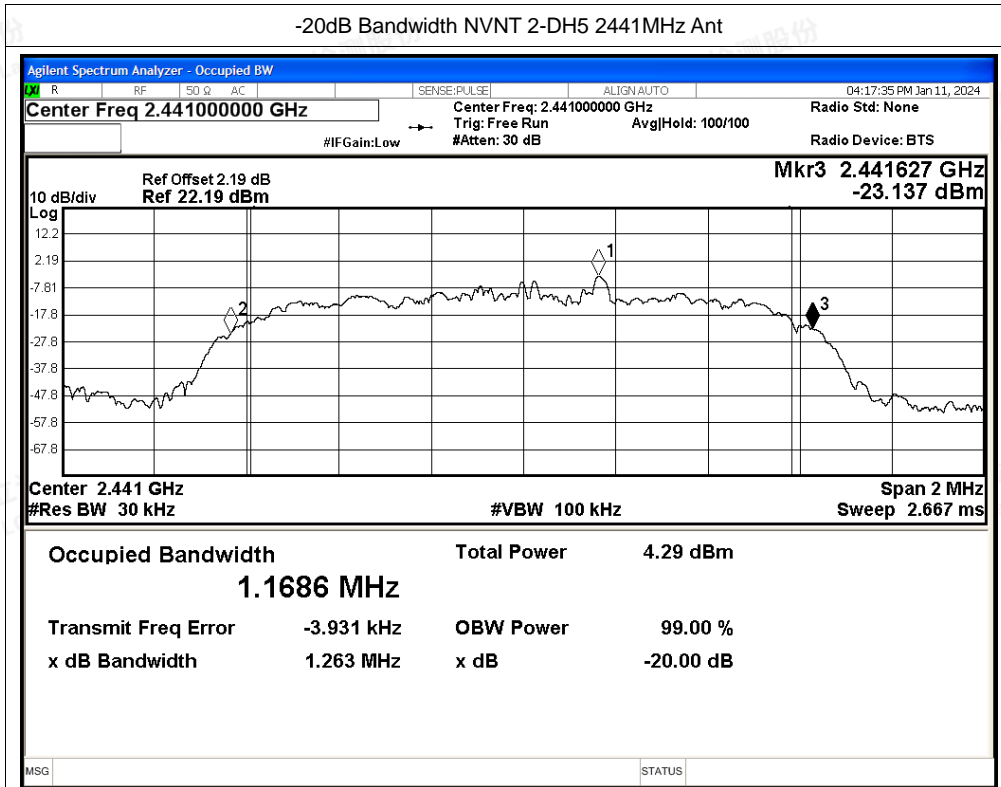


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant

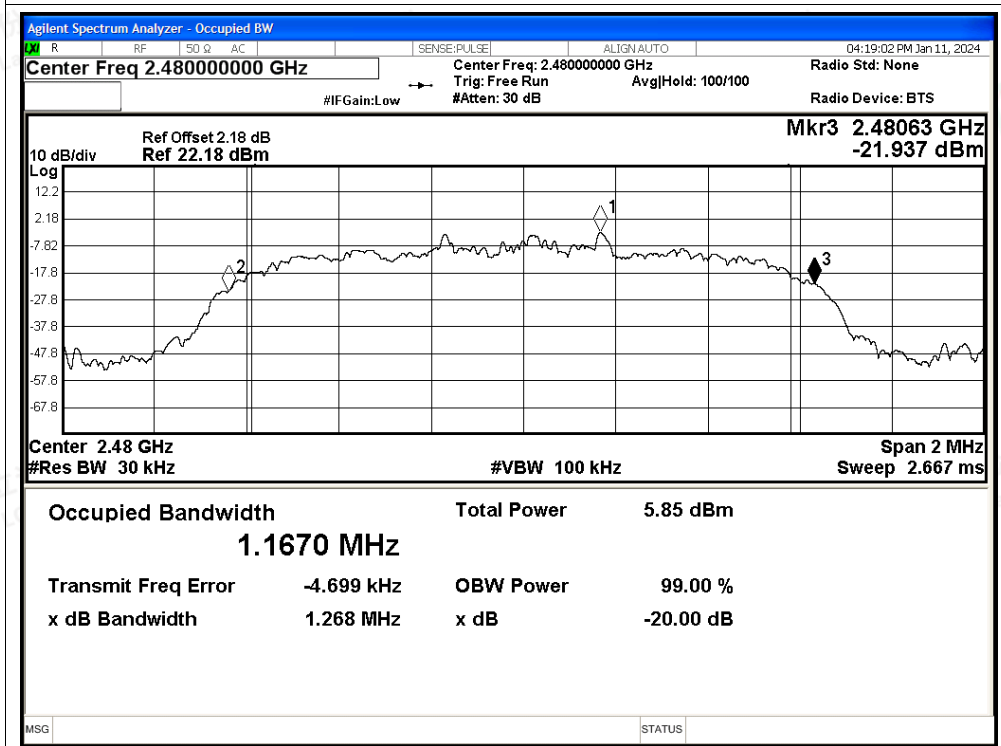




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant

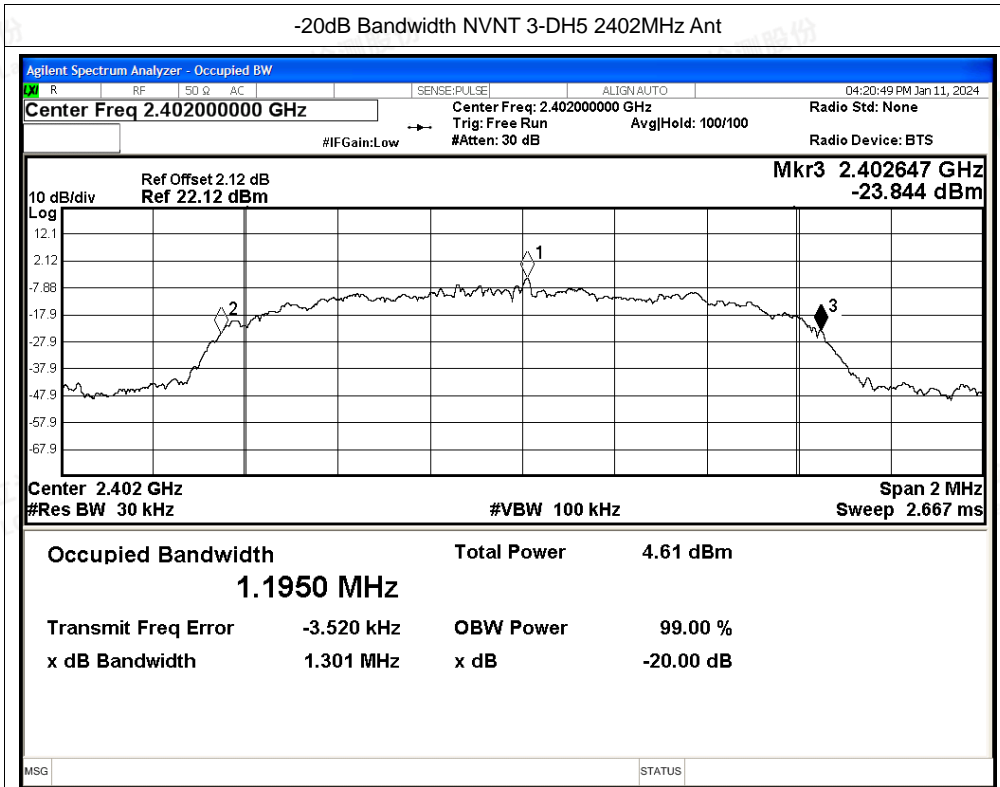


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant

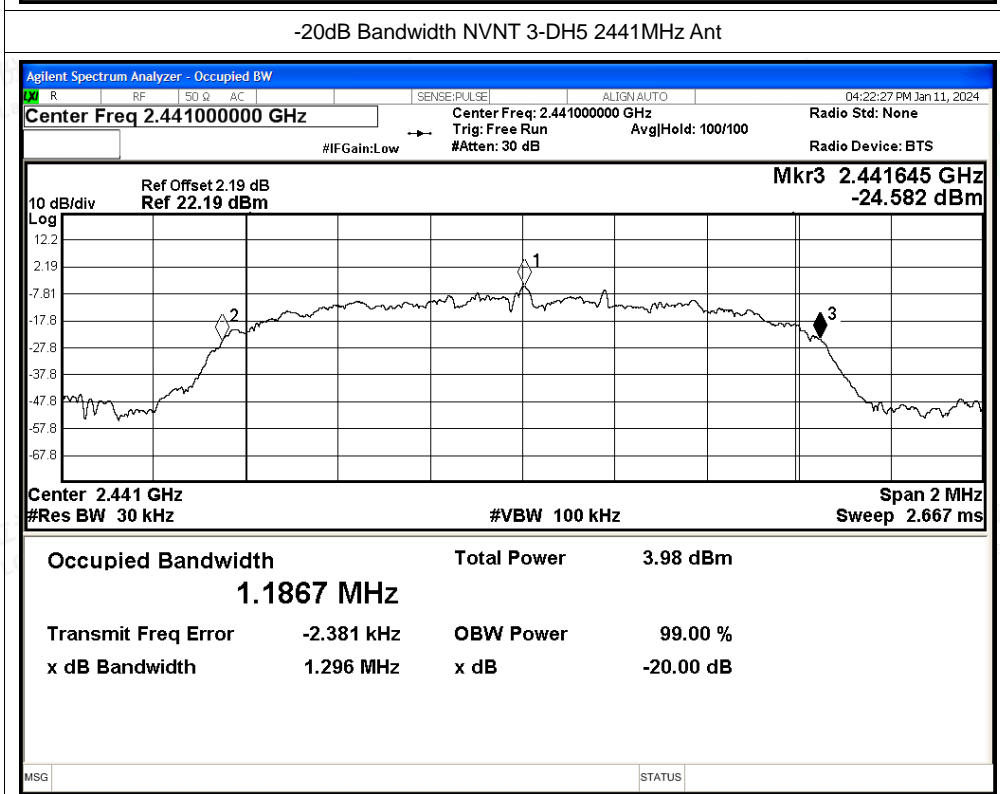


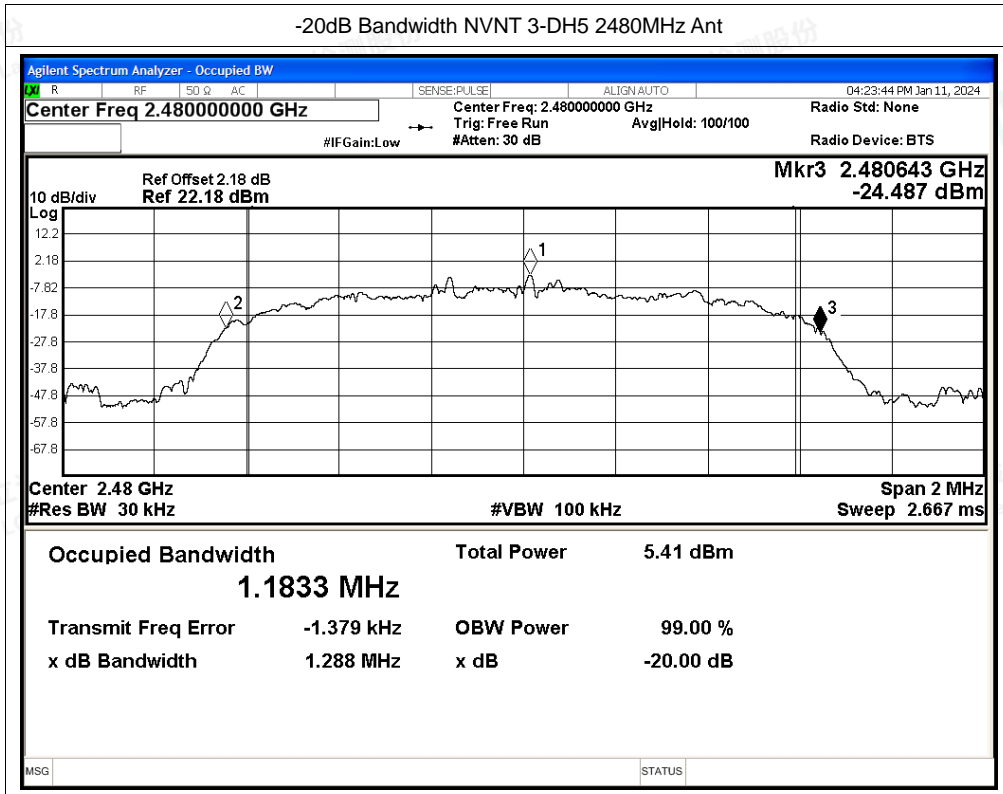


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant







A.2 Maximum Conducted Output Power

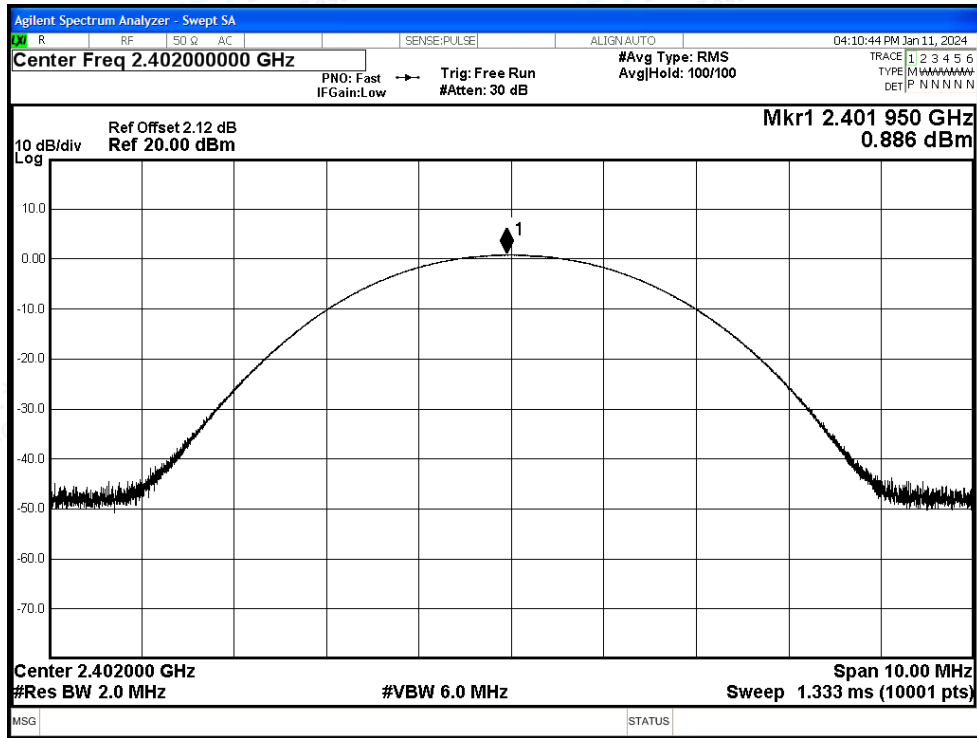
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant	0.89	21	Pass
NVNT	1-DH5	2441	Ant	0.59	21	Pass
NVNT	1-DH5	2480	Ant	1.88	21	Pass
NVNT	2-DH5	2402	Ant	0.4	21	Pass
NVNT	2-DH5	2441	Ant	-0.14	21	Pass
NVNT	2-DH5	2480	Ant	1.13	21	Pass
NVNT	3-DH5	2402	Ant	0.4	21	Pass
NVNT	3-DH5	2441	Ant	-0.29	21	Pass
NVNT	3-DH5	2480	Ant	1.15	21	Pass



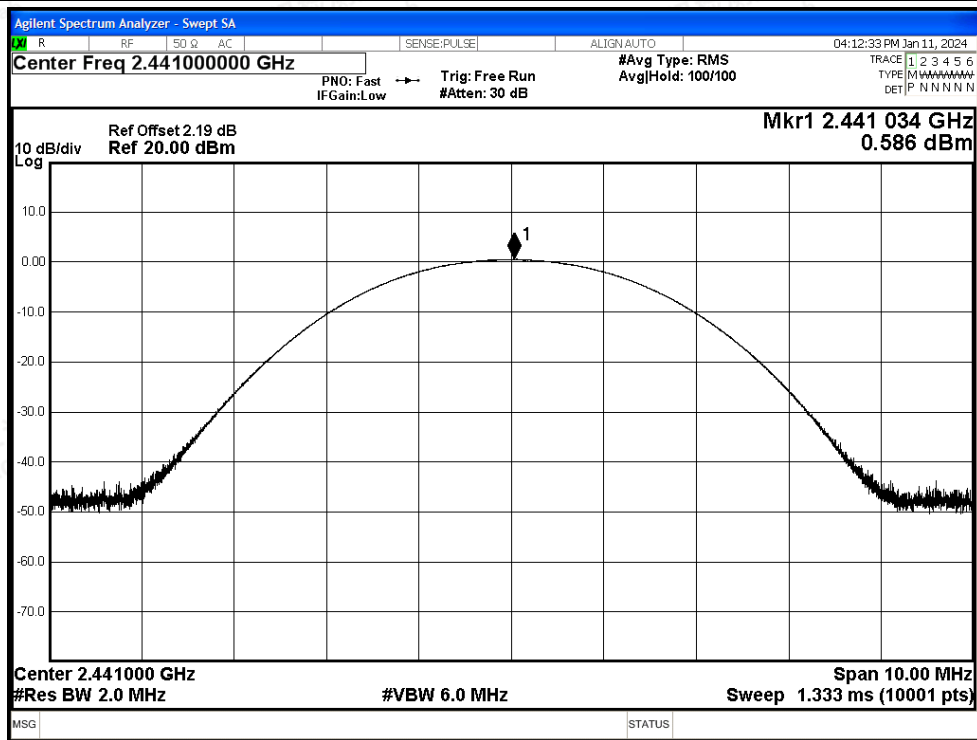


Test Graphs

Power NVNT 1-DH5 2402MHz Ant

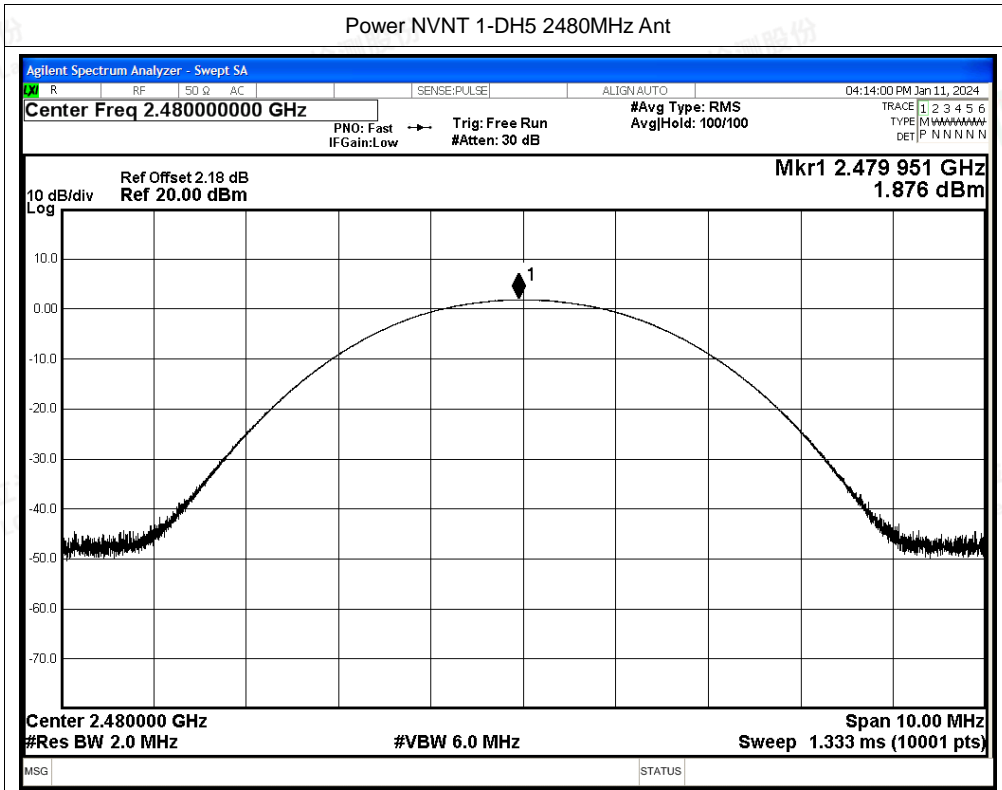


Power NVNT 1-DH5 2441MHz Ant

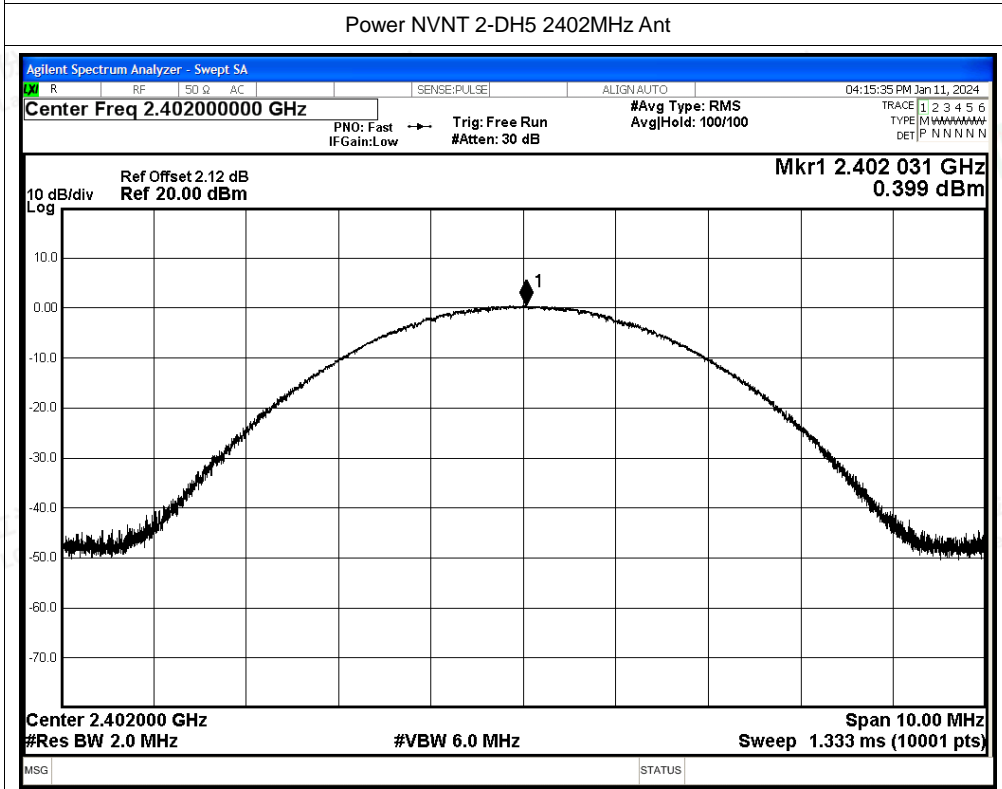




Power NVNT 1-DH5 2480MHz Ant

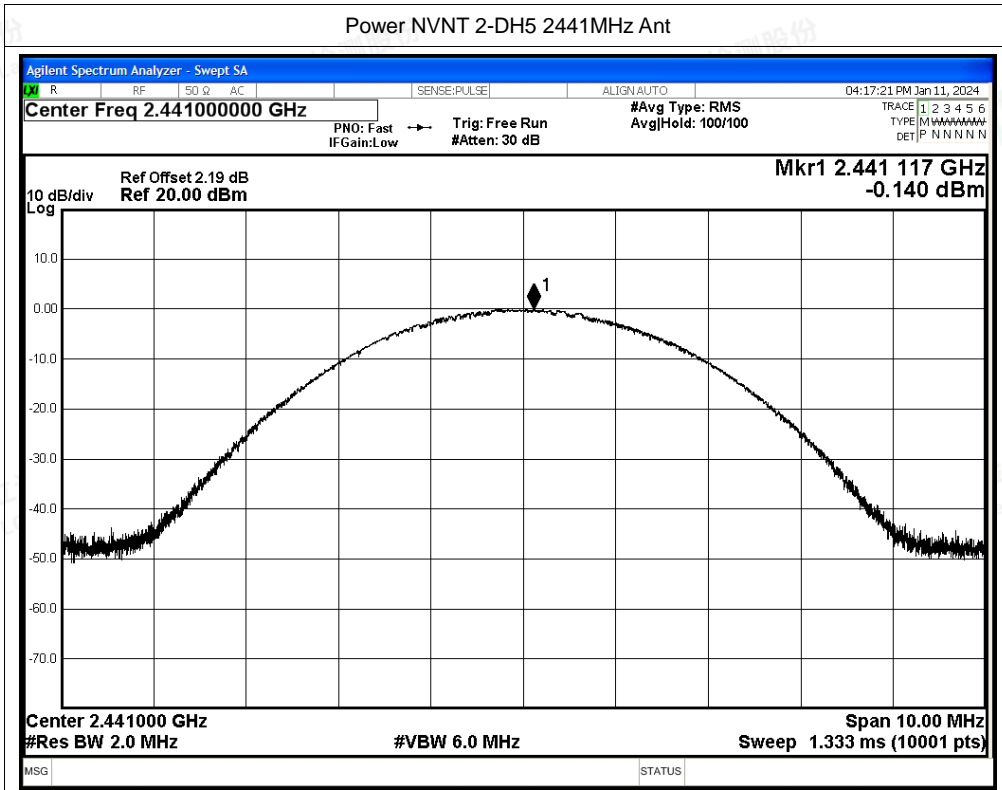


Power NVNT 2-DH5 2402MHz Ant

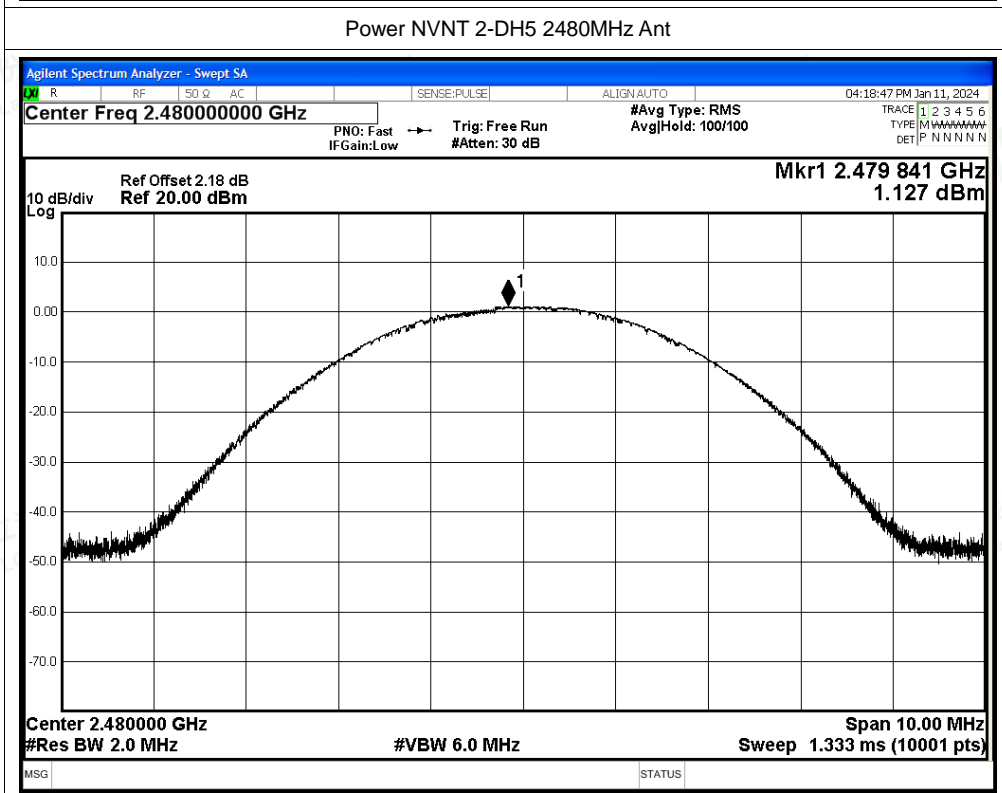




Power NVNT 2-DH5 2441MHz Ant

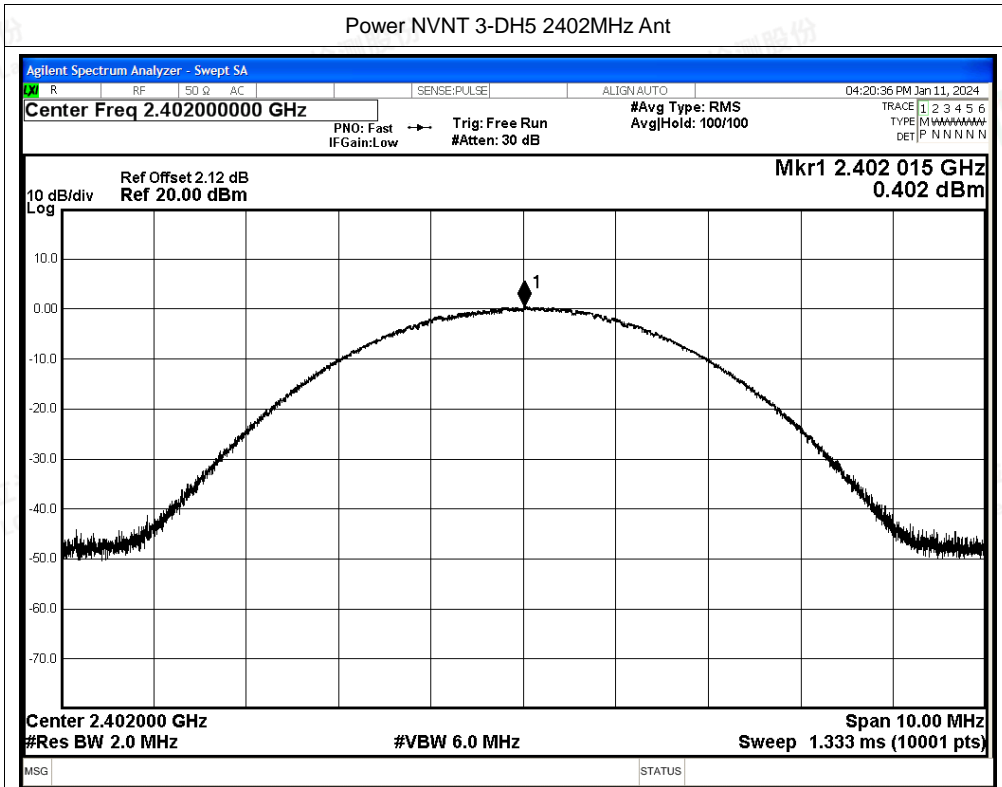


Power NVNT 2-DH5 2480MHz Ant

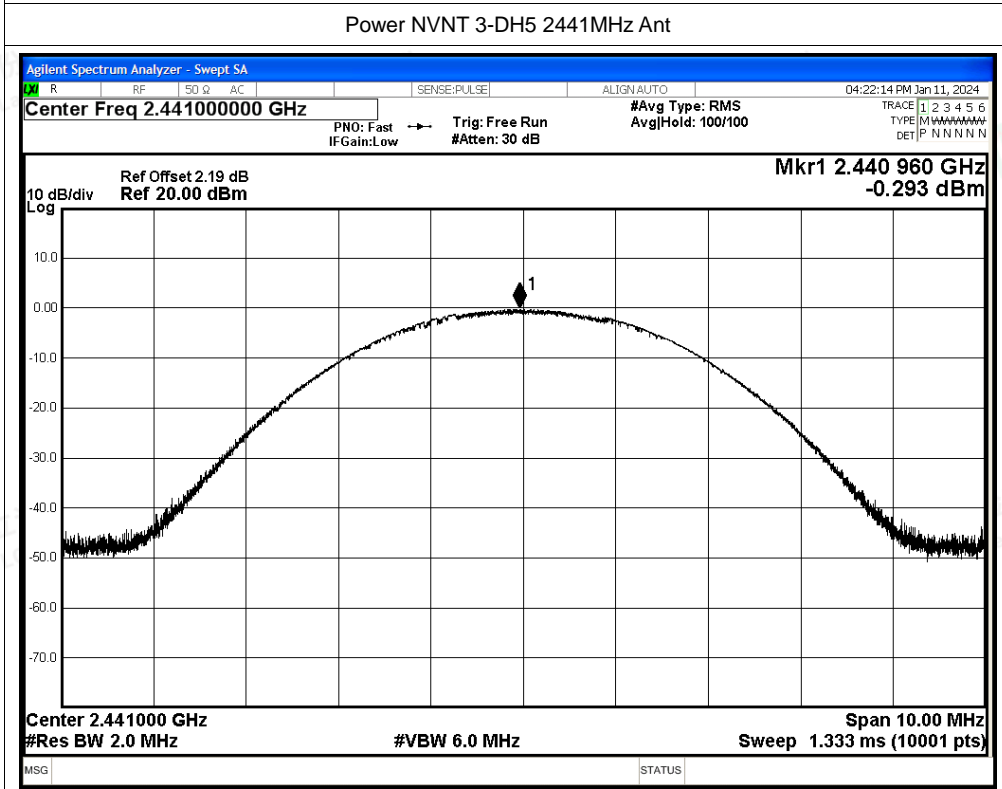


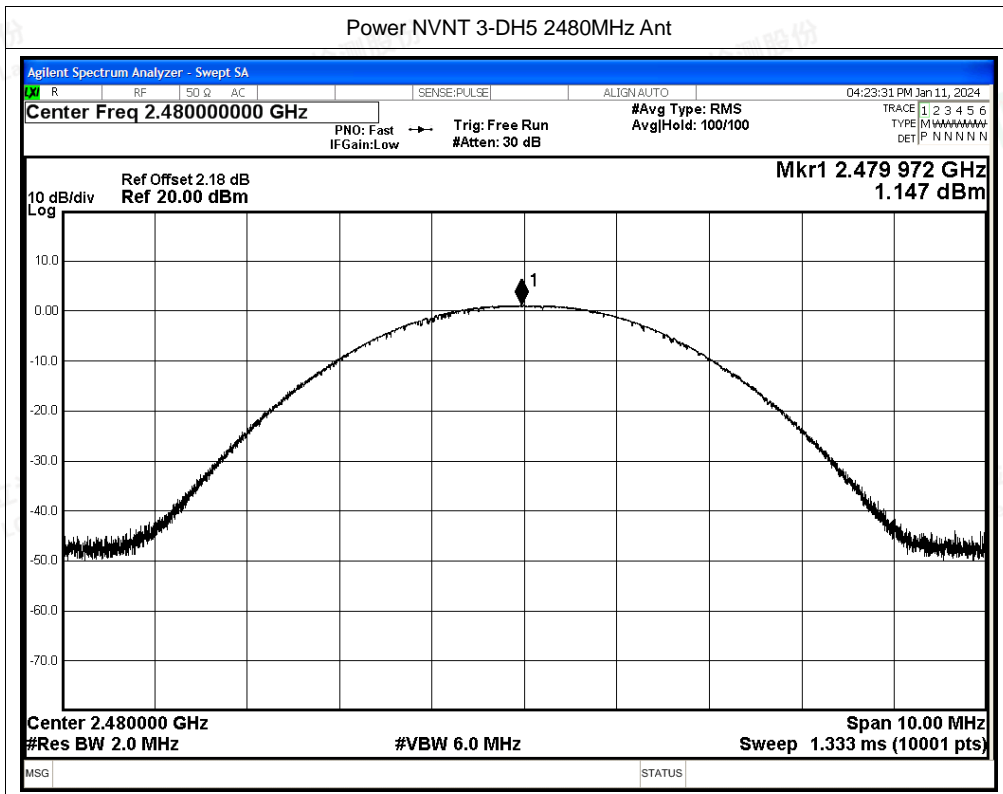


Power NVNT 3-DH5 2402MHz Ant



Power NVNT 3-DH5 2441MHz Ant







A.3 Carrier Frequencies Separation

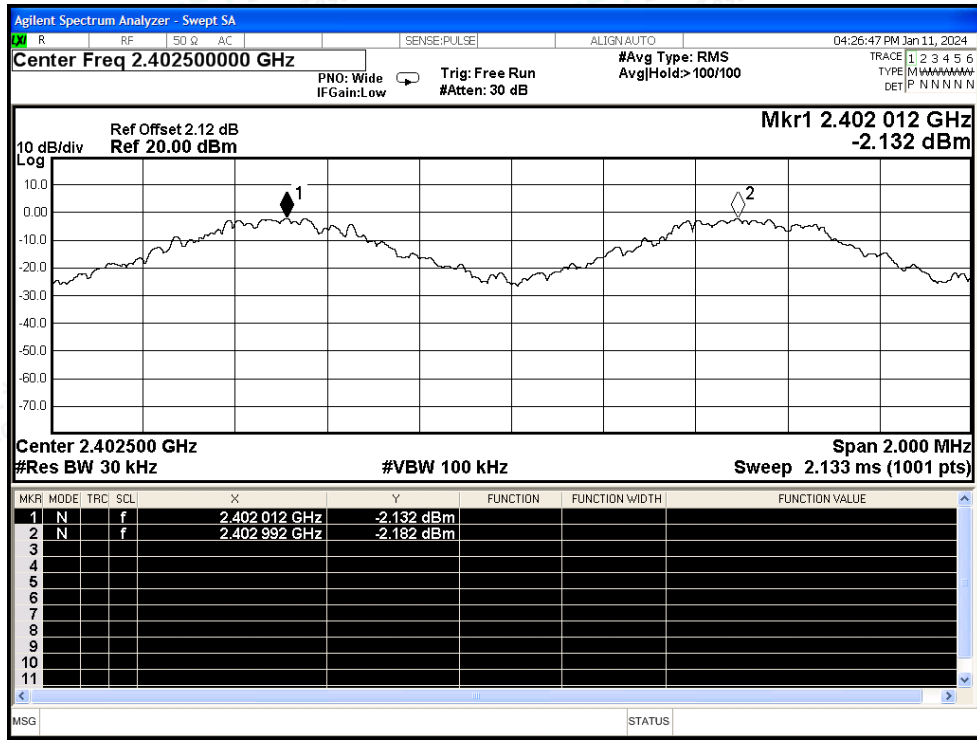
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant	2402.012	2402.992	0.98	0.611	Pass
NVNT	2-DH5	Ant	2402.016	2403.012	0.996	0.874	Pass
NVNT	3-DH5	Ant	2402.158	2403.152	0.994	0.867	Pass



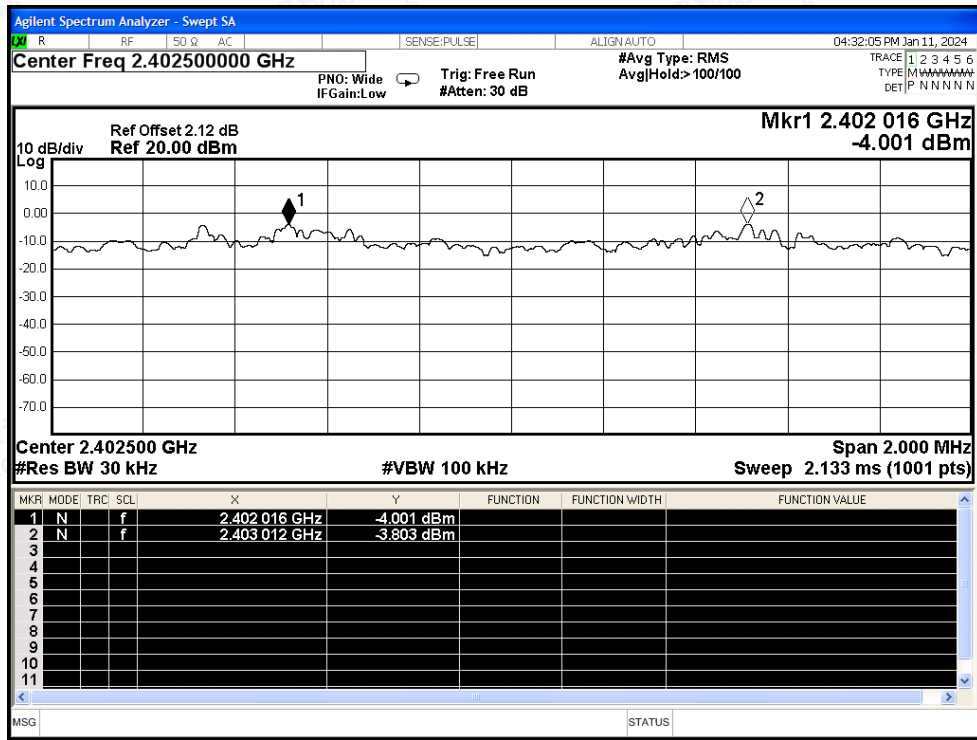


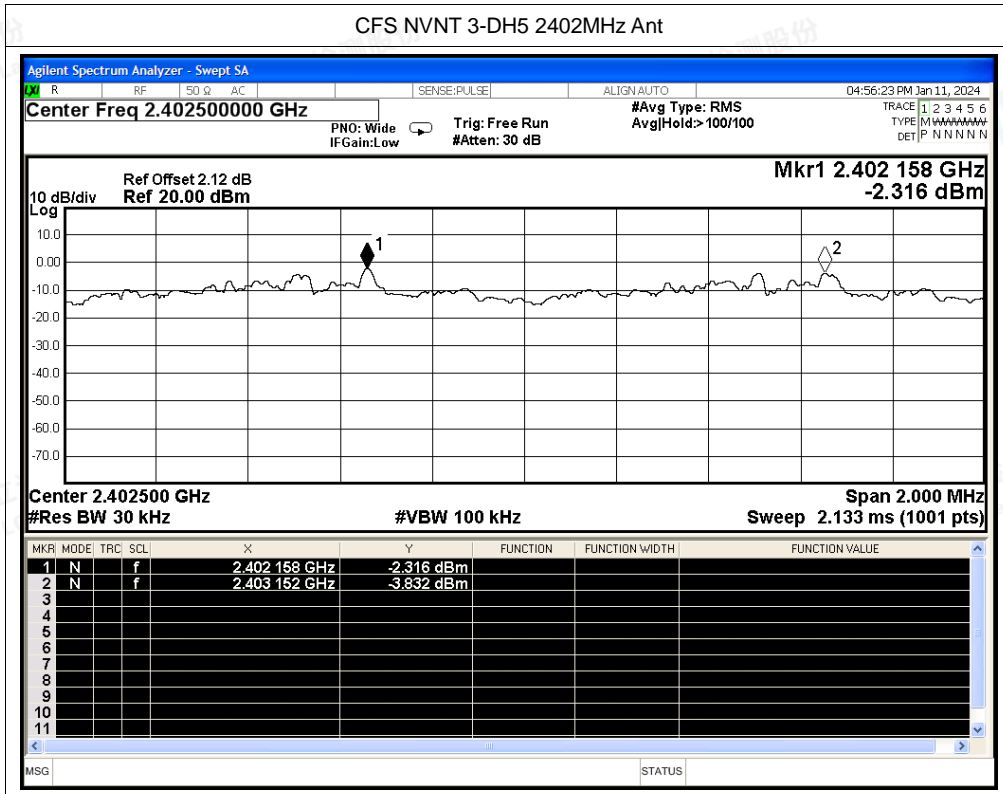
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant



CFS NVNT 2-DH5 2402MHz Ant







A.4 Dwell Time

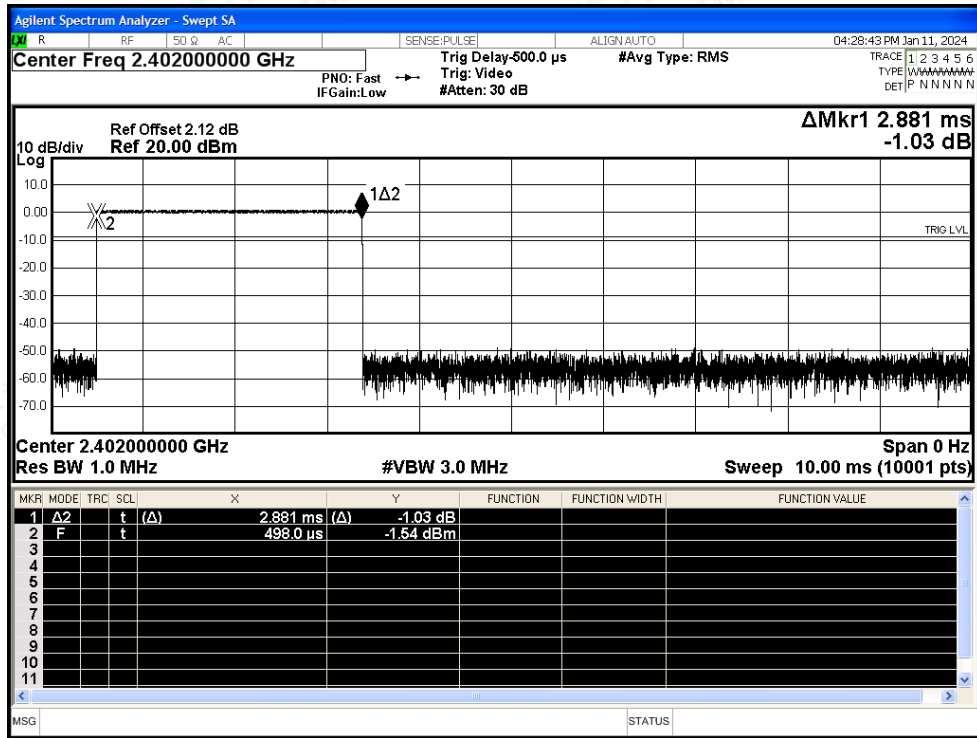
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant	2.881	308.267	107	31600	400	Pass
NVNT	2-DH5	2402	Ant	2.882	305.492	106	31600	400	Pass
NVNT	3-DH5	2402	Ant	2.887	271.378	94	31600	400	Pass



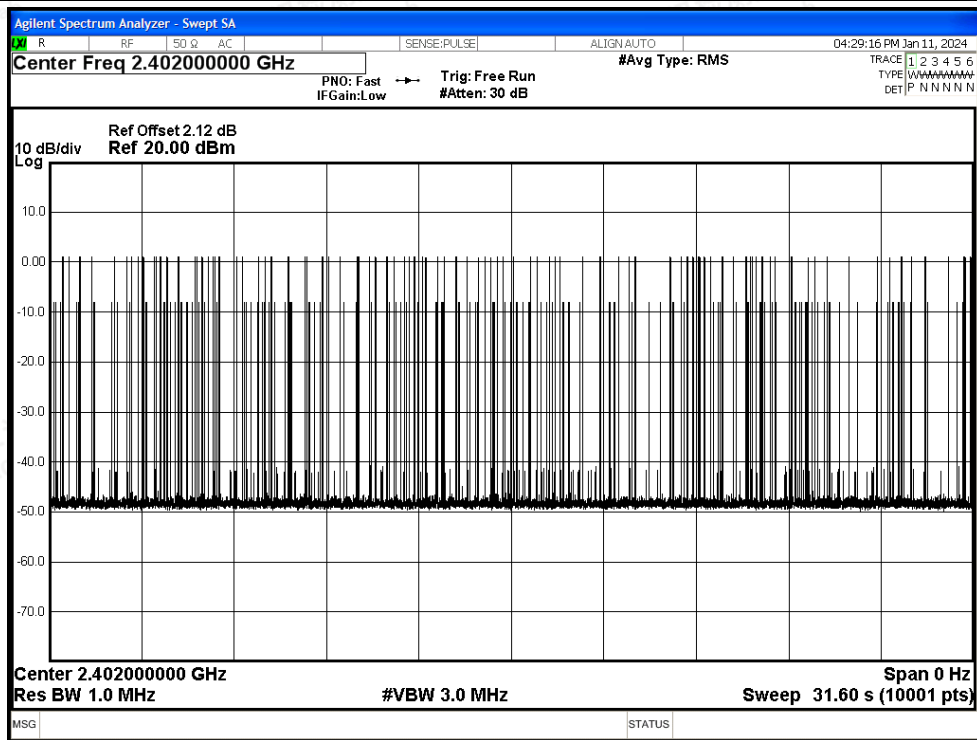


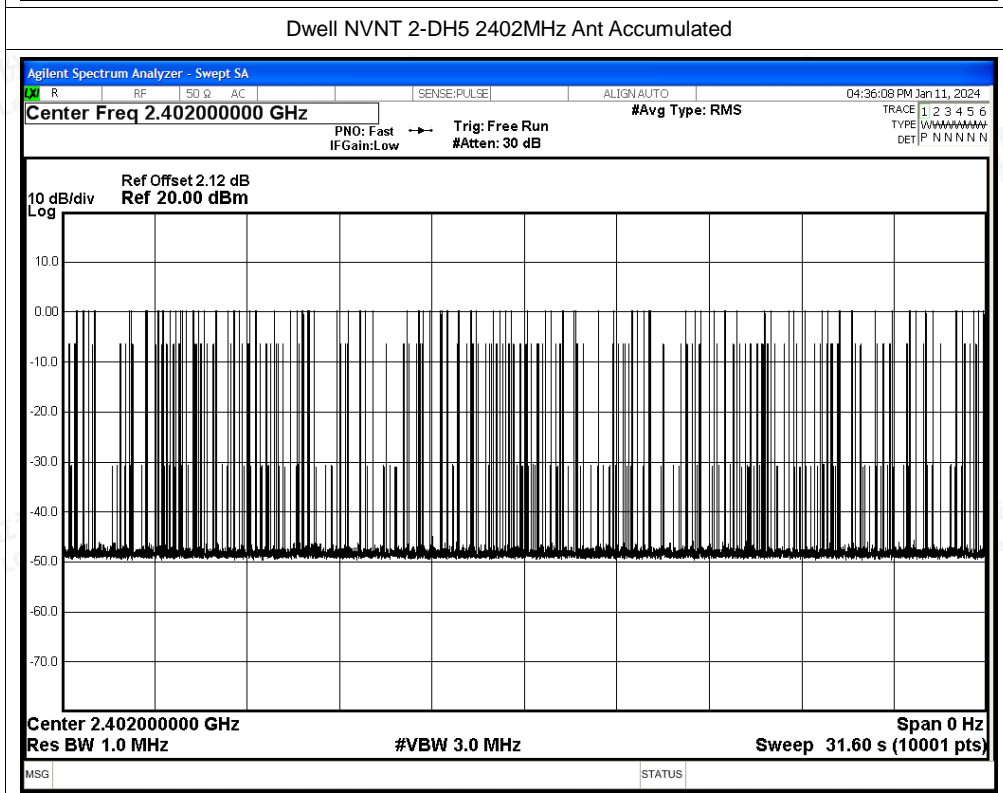
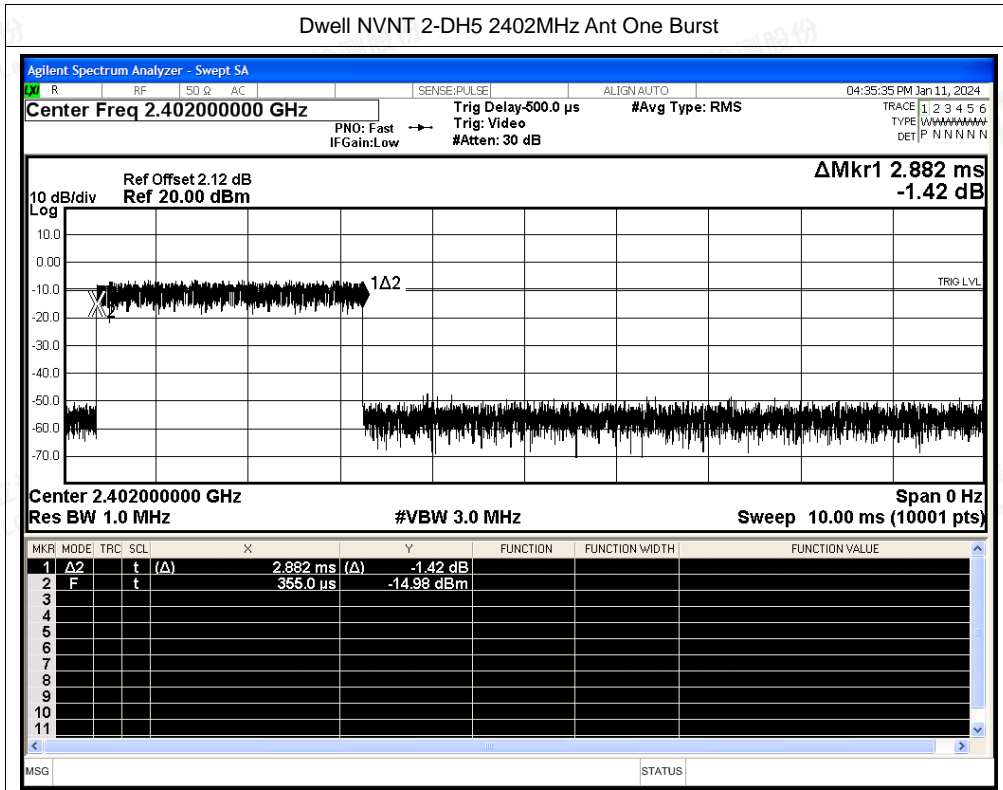
Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant One Burst



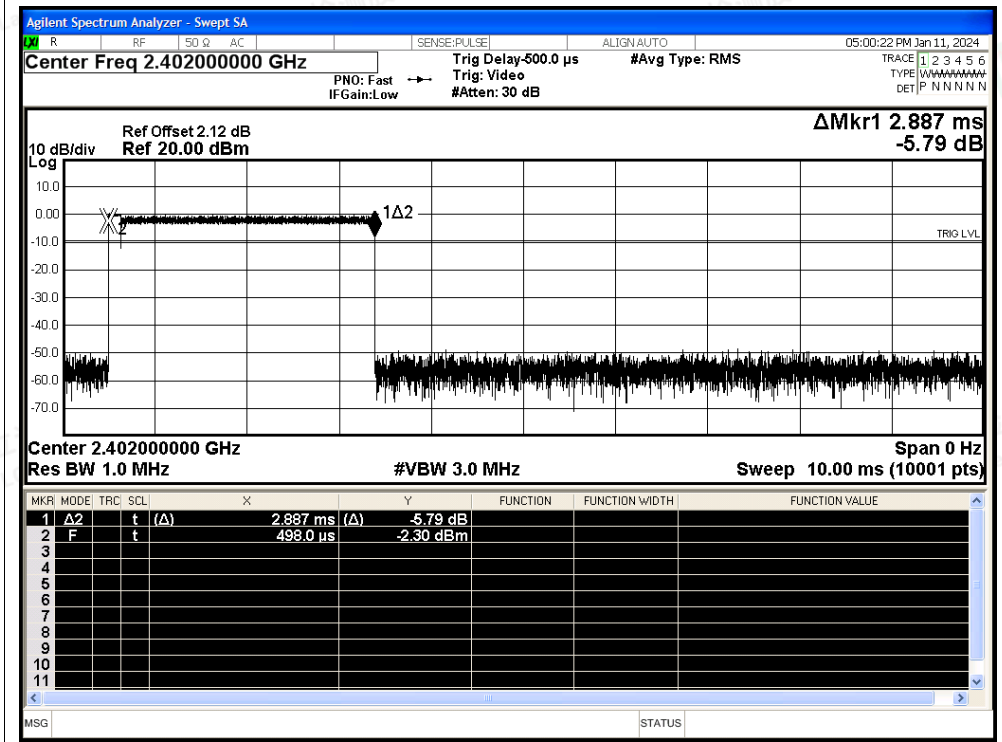
Dwell NVNT 1-DH5 2402MHz Ant Accumulated



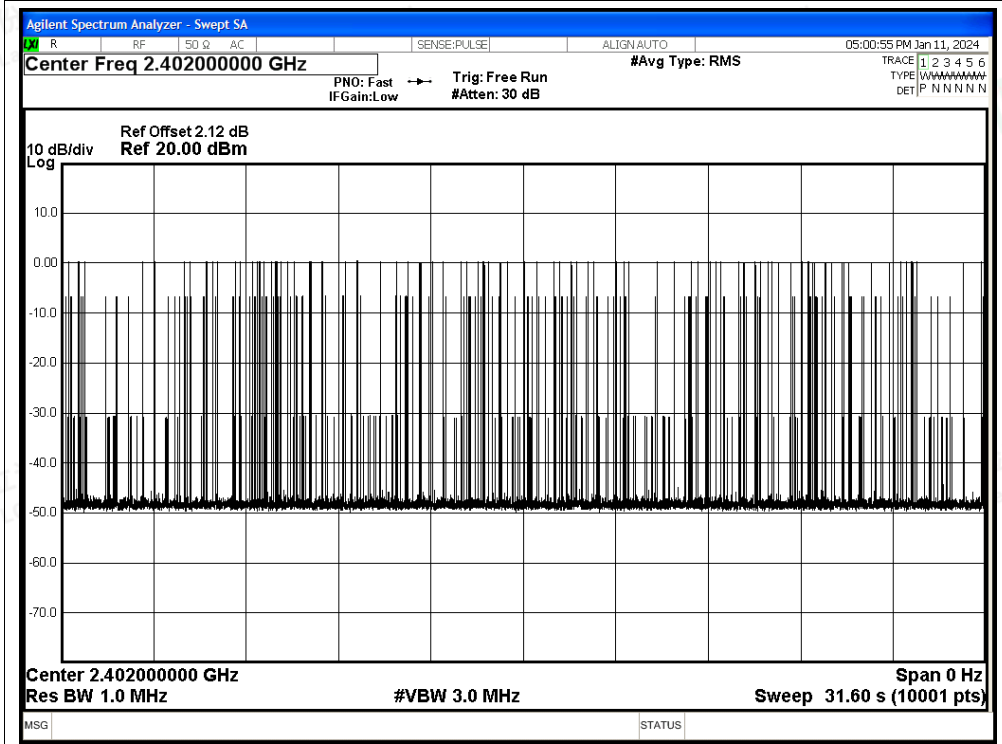




Dwell NVNT 3-DH5 2402MHz Ant One Burst



Dwell NVNT 3-DH5 2402MHz Ant Accumulated





A.5 Number of Hopping Channel

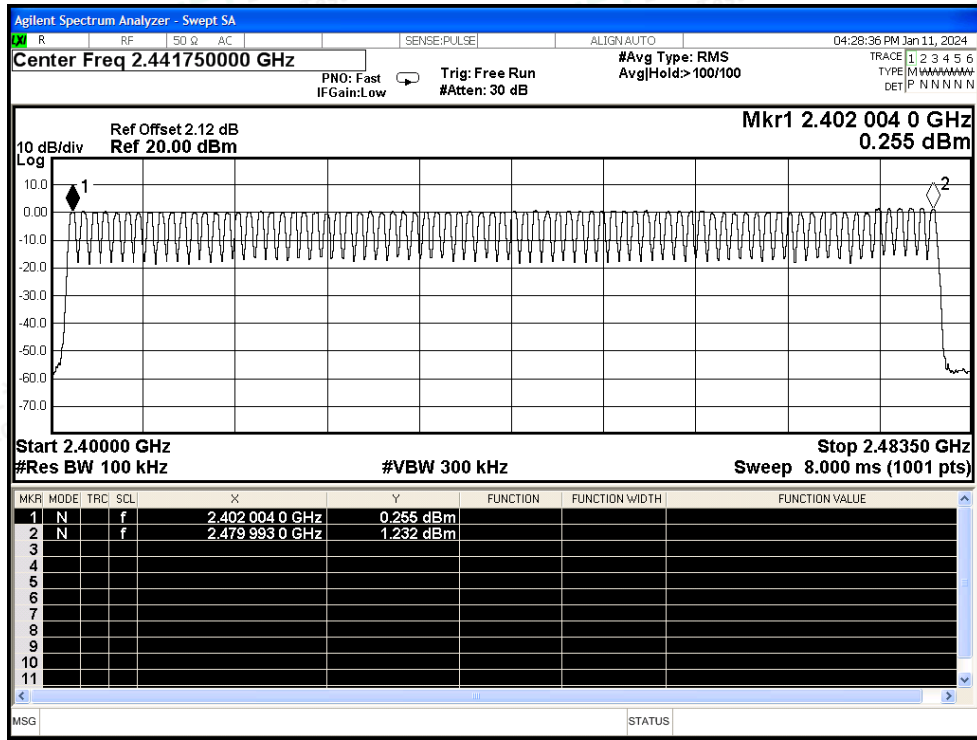
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant	79	15	Pass
NVNT	2-DH5	Ant	79	15	Pass
NVNT	3-DH5	Ant	79	15	Pass



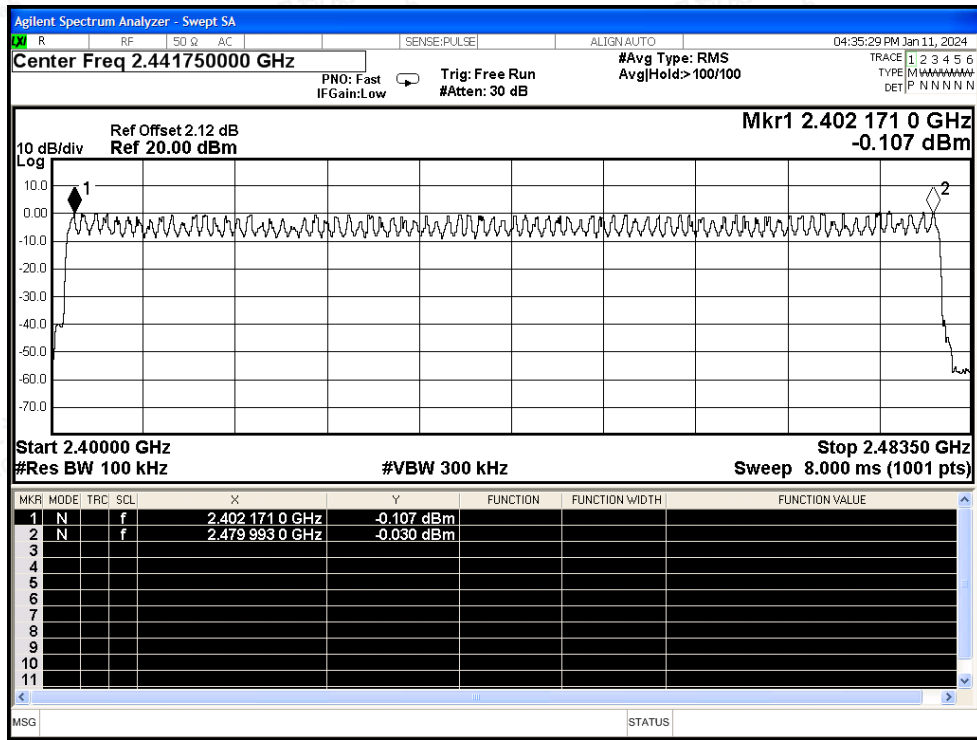


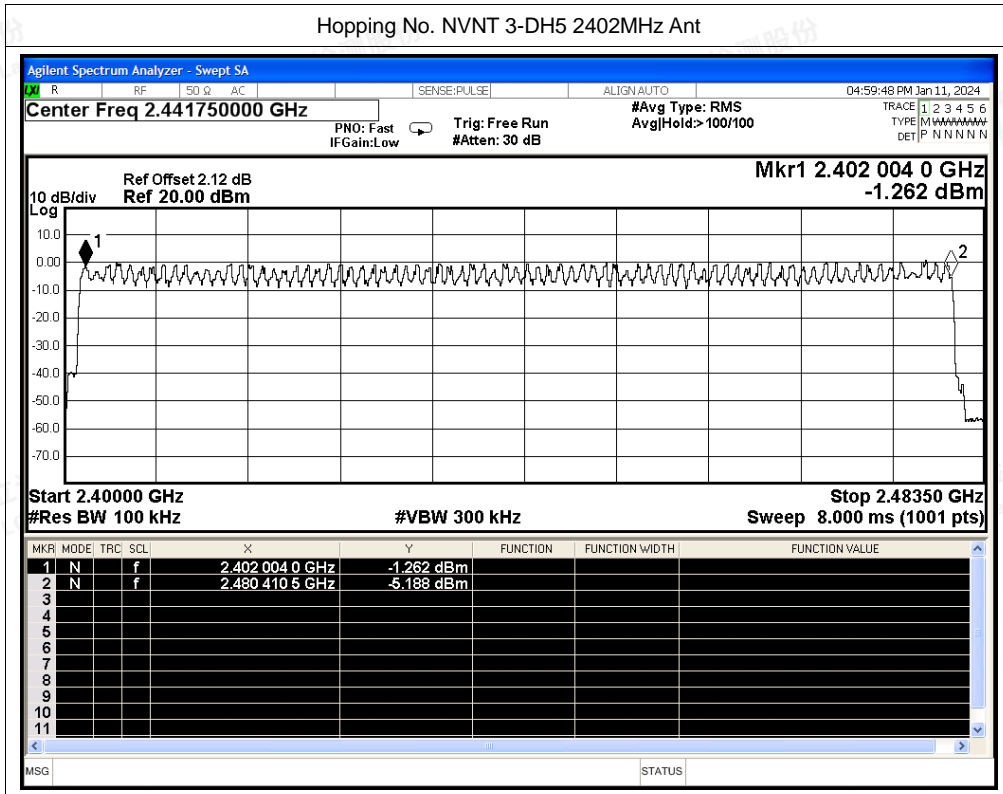
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant



Hopping No. NVNT 2-DH5 2402MHz Ant







A.6 Band Edge

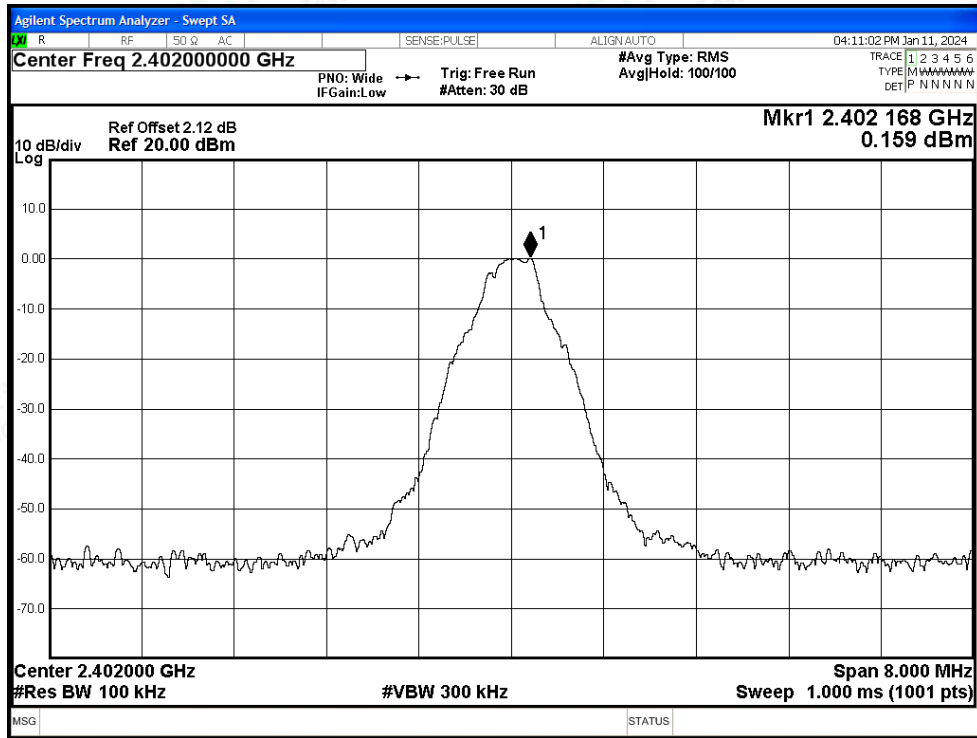
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	-57.12	-20	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	-58.29	-20	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	-53.27	-20	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	-53.82	-20	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	-53.94	-20	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	-57.55	-20	Pass



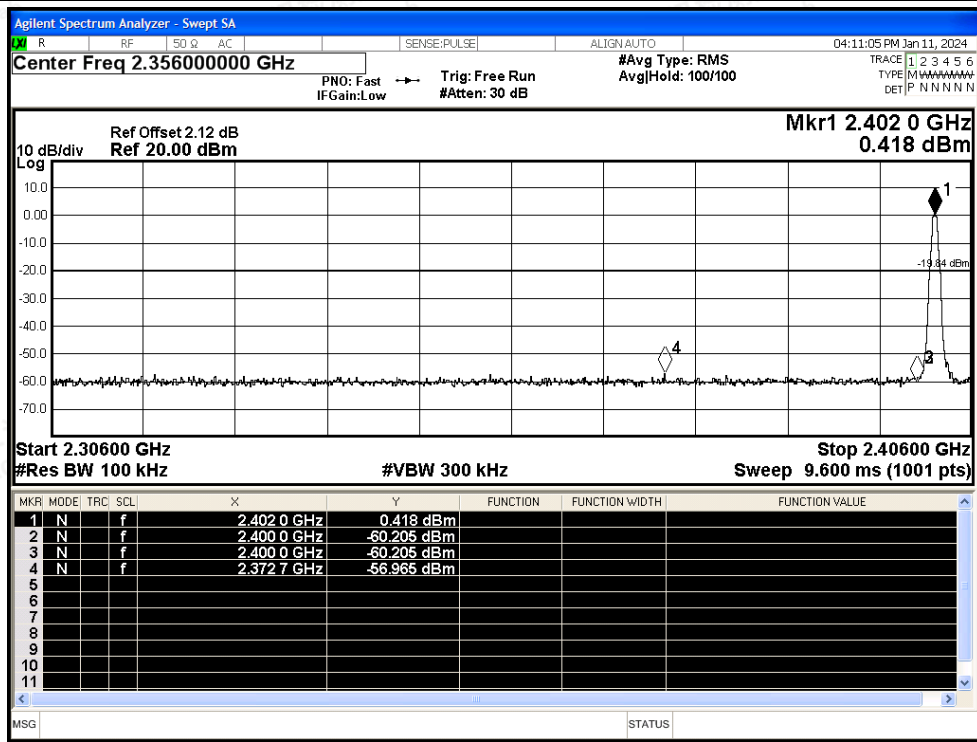


Test Graphs

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

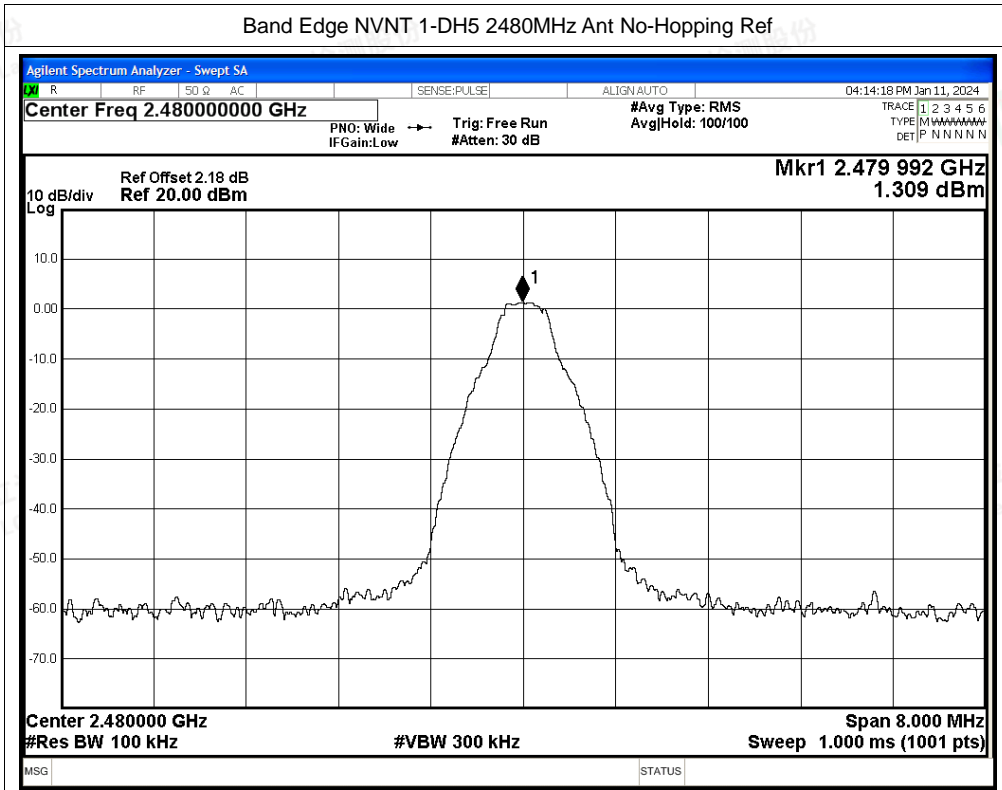


Band Edge NVNT 1-DH5 2402MHz Ant No-Hopping Emission

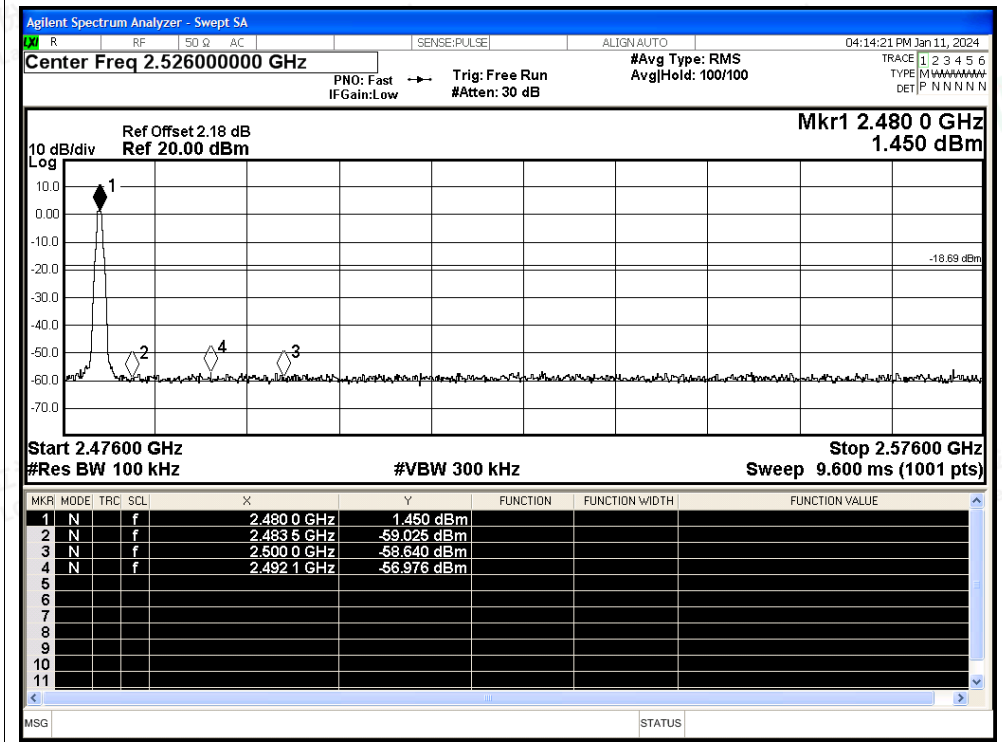




Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Ref

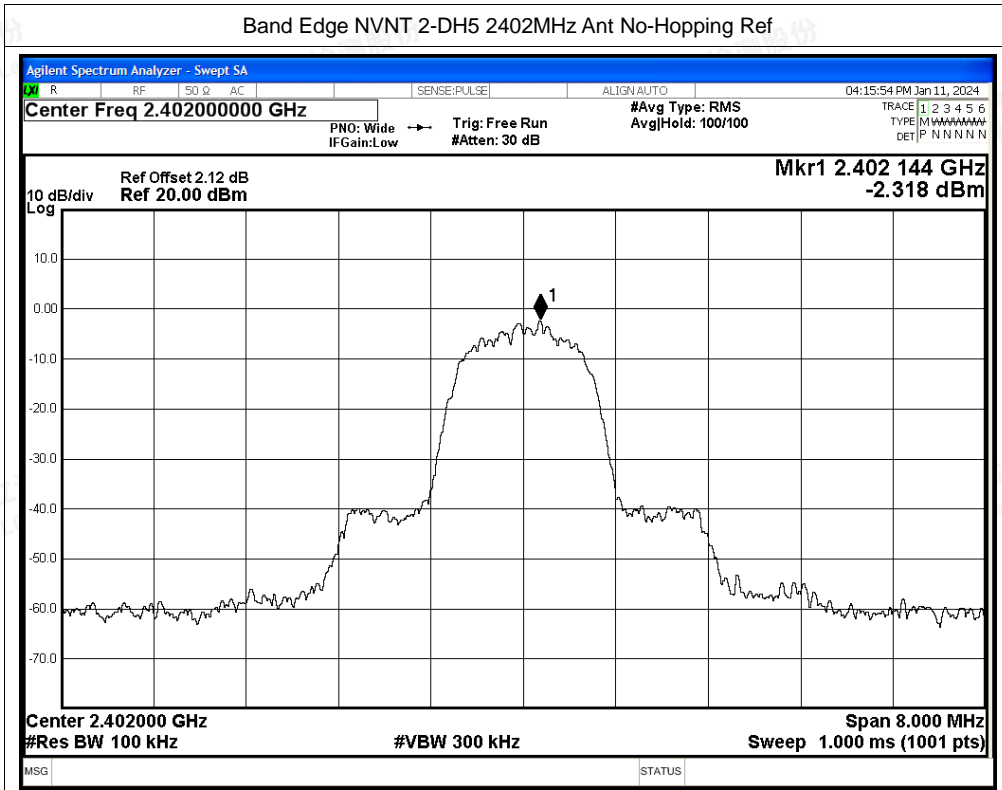


Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Emission

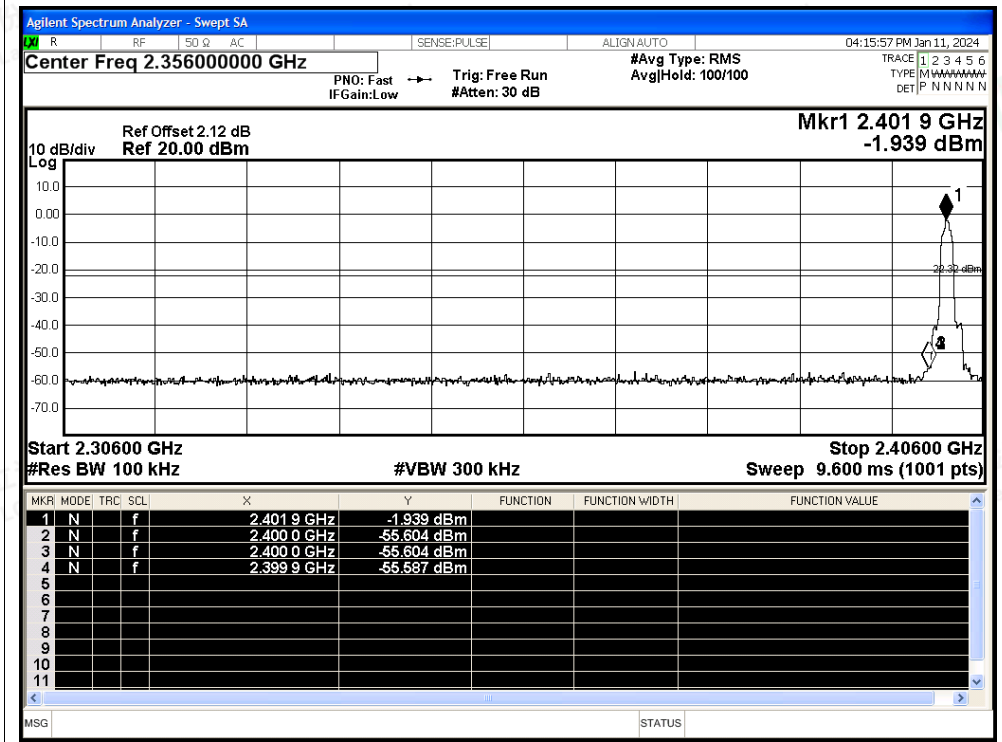




Band Edge NVNT 2-DH5 2402MHz Ant No-Hopping Ref

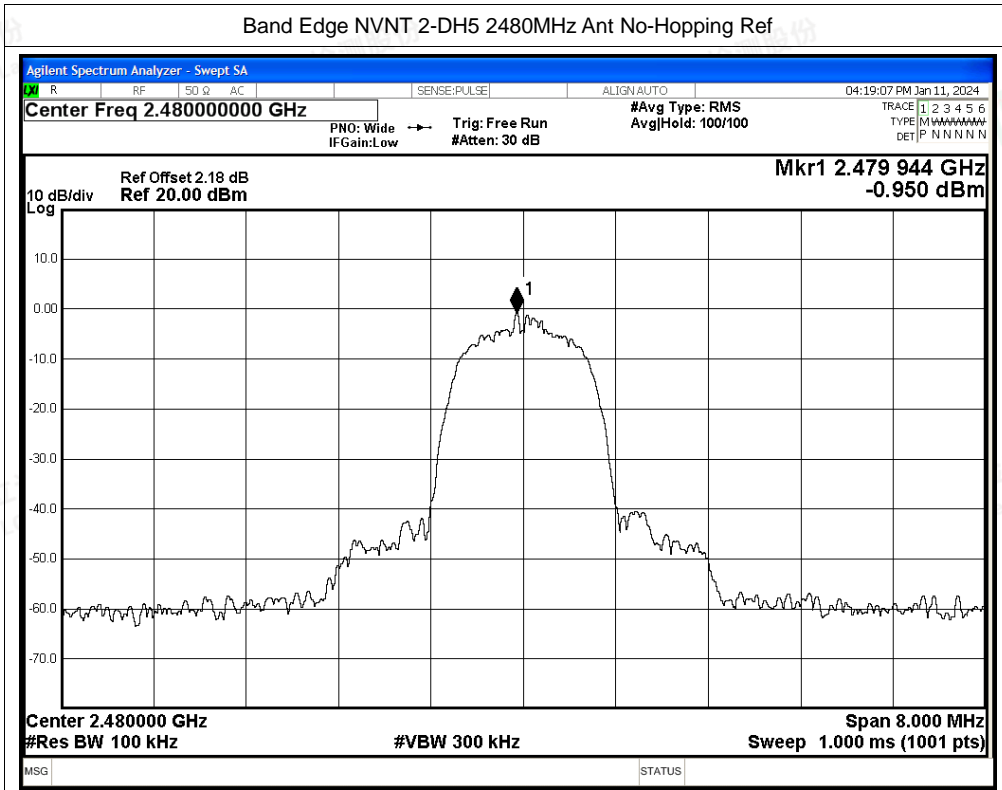


Band Edge NVNT 2-DH5 2402MHz Ant No-Hopping Emission

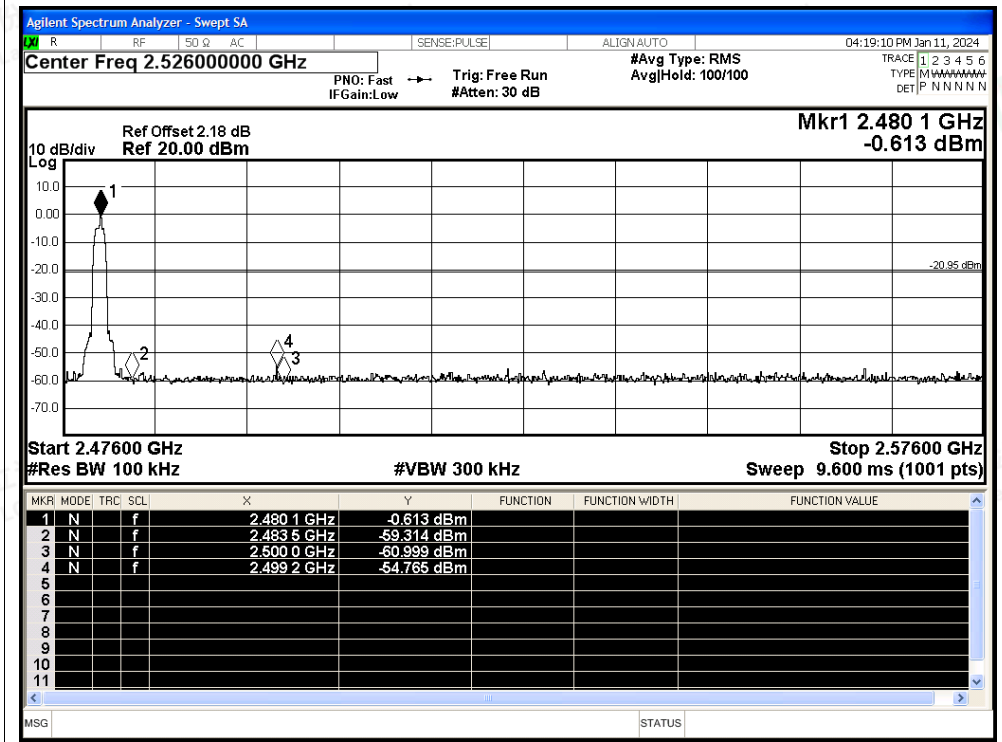




Band Edge NVNT 2-DH5 2480MHz Ant No-Hopping Ref

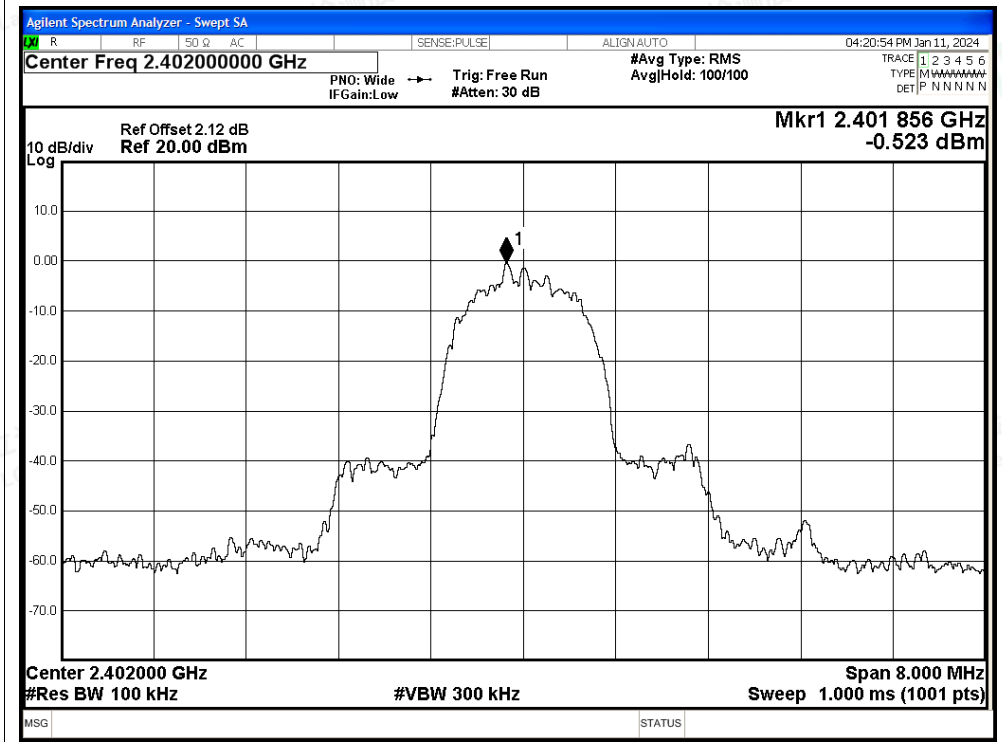


Band Edge NVNT 2-DH5 2480MHz Ant No-Hopping Emission

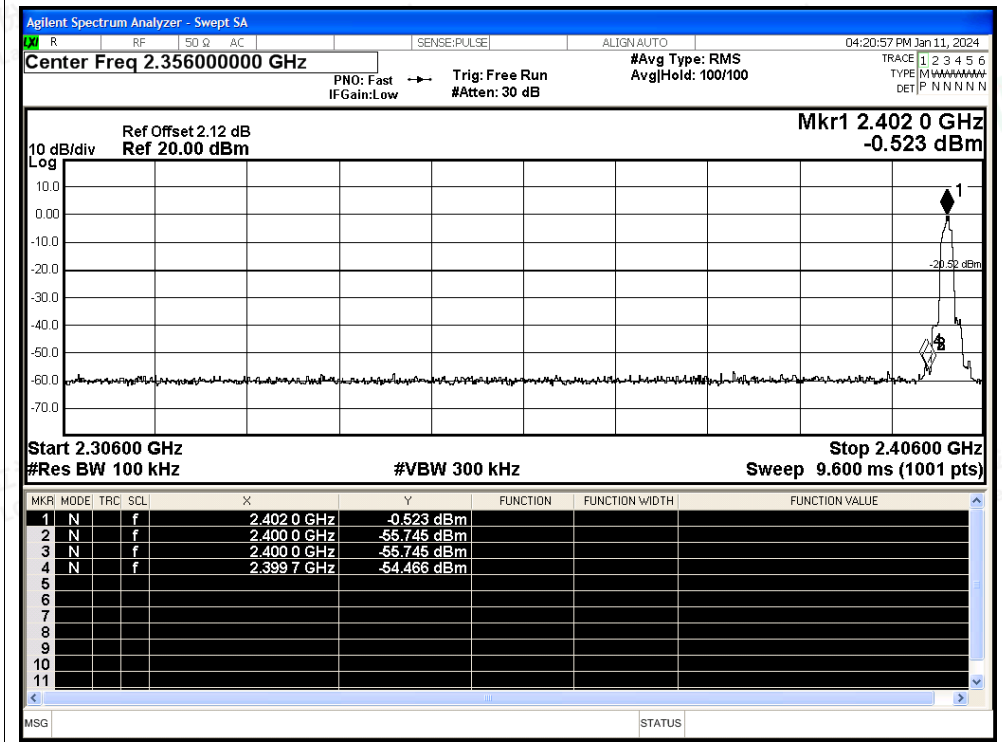




Band Edge NVNT 3-DH5 2402MHz Ant No-Hopping Ref

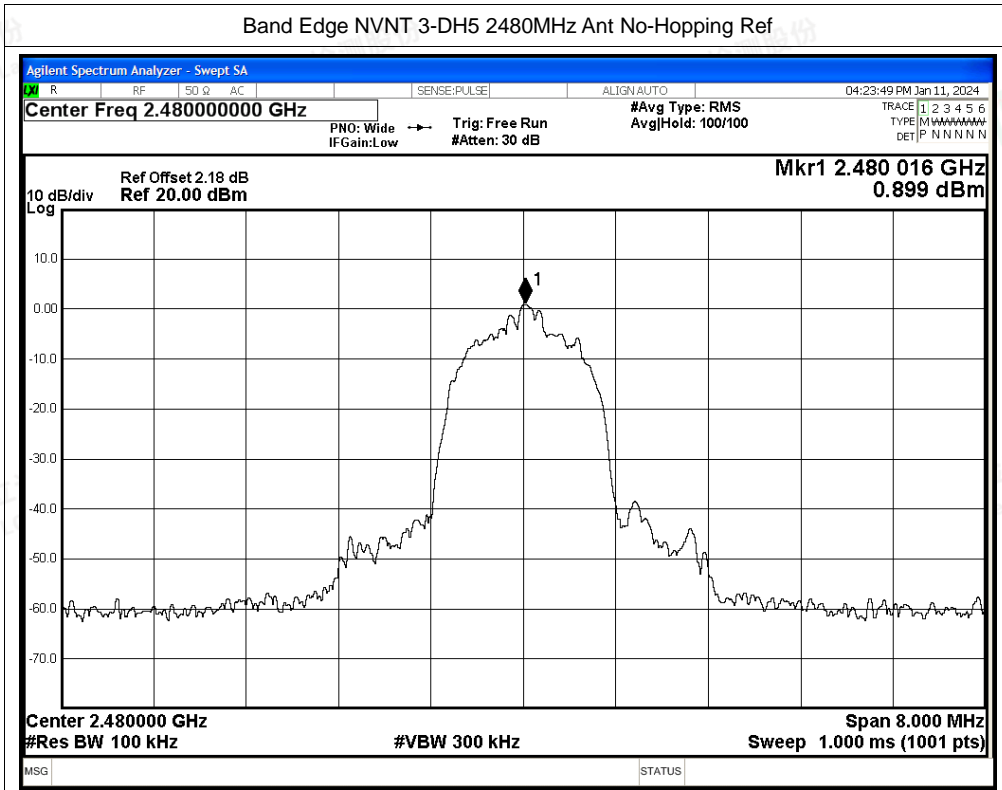


Band Edge NVNT 3-DH5 2402MHz Ant No-Hopping Emission

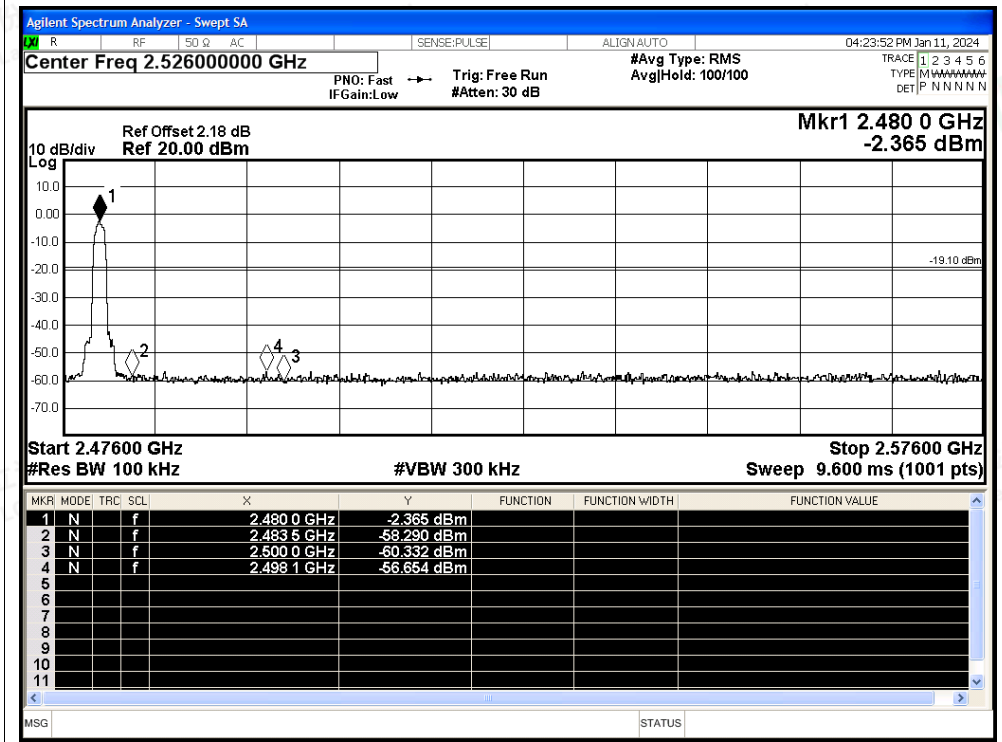




Band Edge NVNT 3-DH5 2480MHz Ant No-Hopping Ref



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





(Hopping)

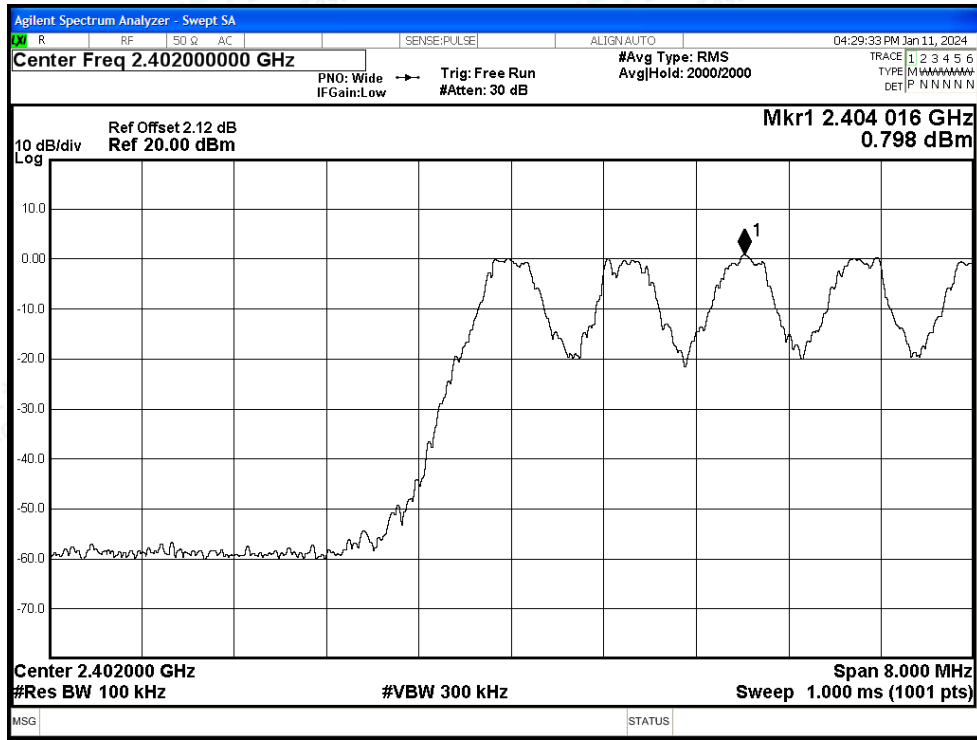
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	Hopping	-56.87	-20	Pass
NVNT	1-DH5	2480	Ant	Hopping	-57.36	-20	Pass
NVNT	2-DH5	2402	Ant	Hopping	-55.76	-20	Pass
NVNT	2-DH5	2480	Ant	Hopping	-56.78	-20	Pass
NVNT	3-DH5	2402	Ant	Hopping	-54.53	-20	Pass
NVNT	3-DH5	2480	Ant	Hopping	-56.49	-20	Pass



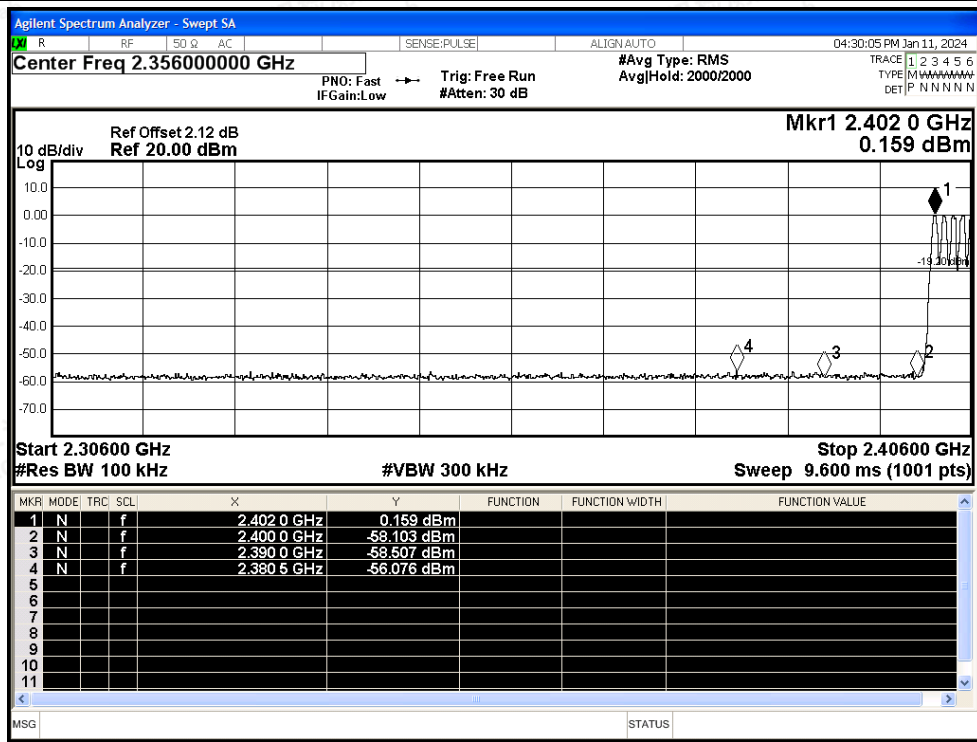


Test Graphs

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

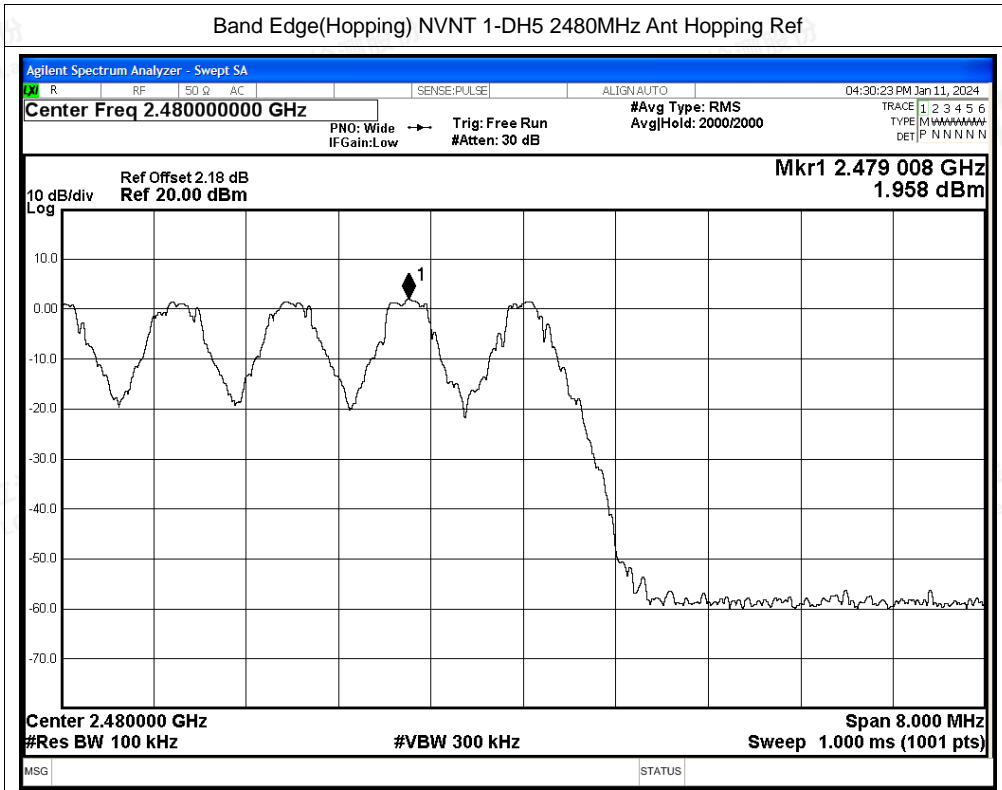


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant Hopping Emission

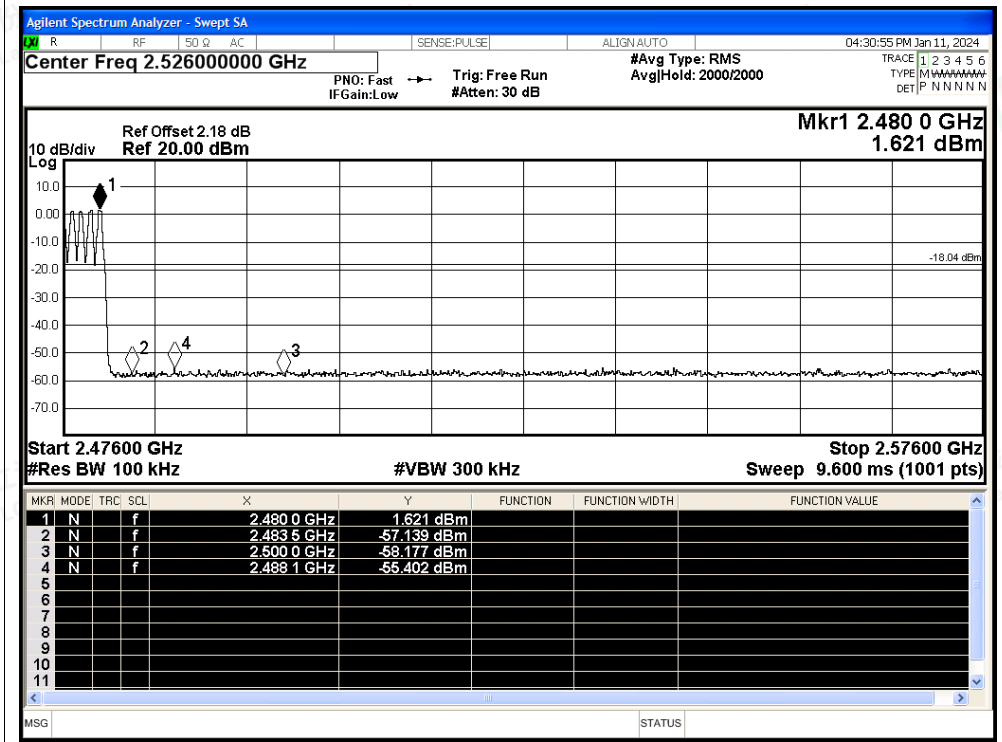




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant Hopping Ref

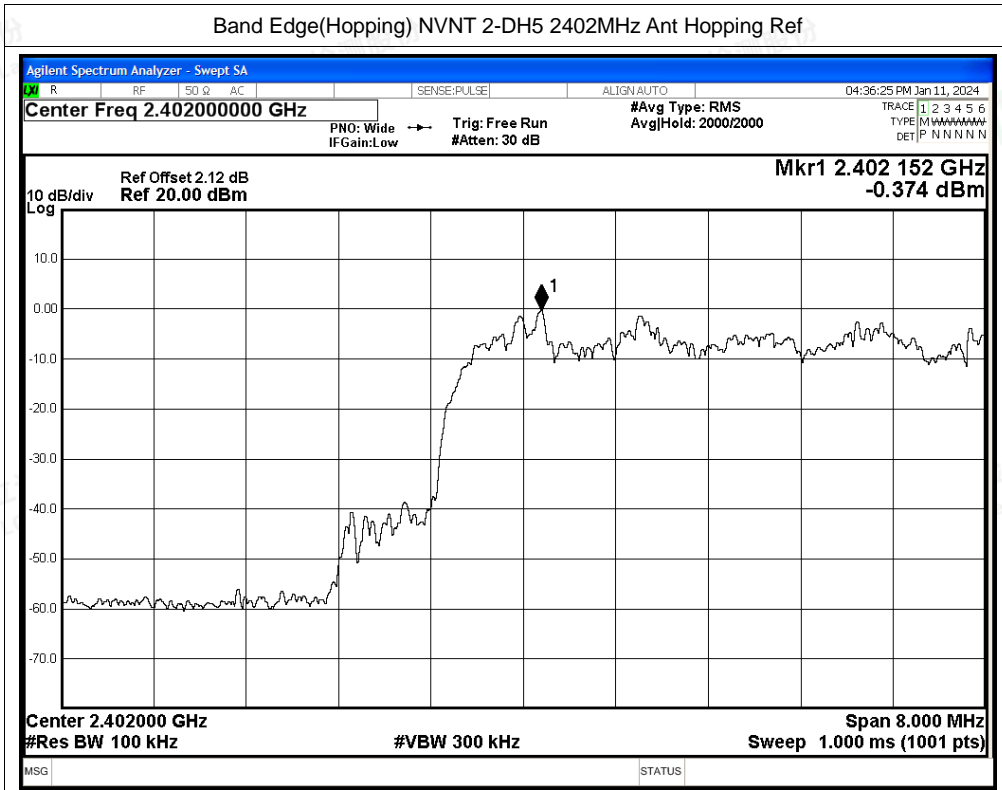


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant Hopping Emission

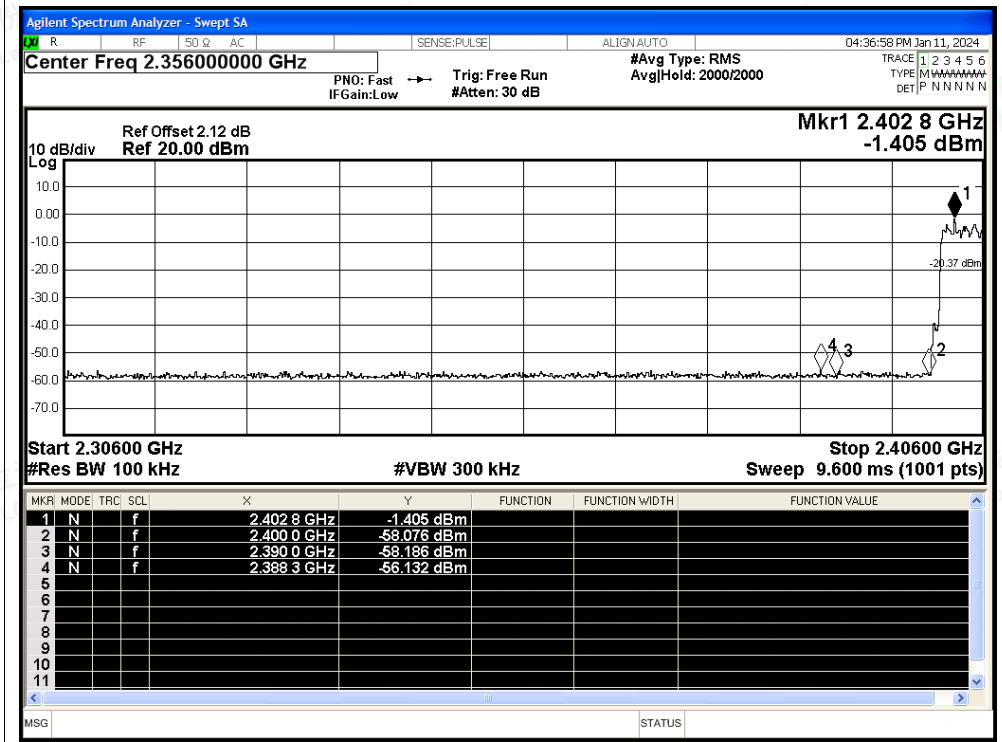




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Ref

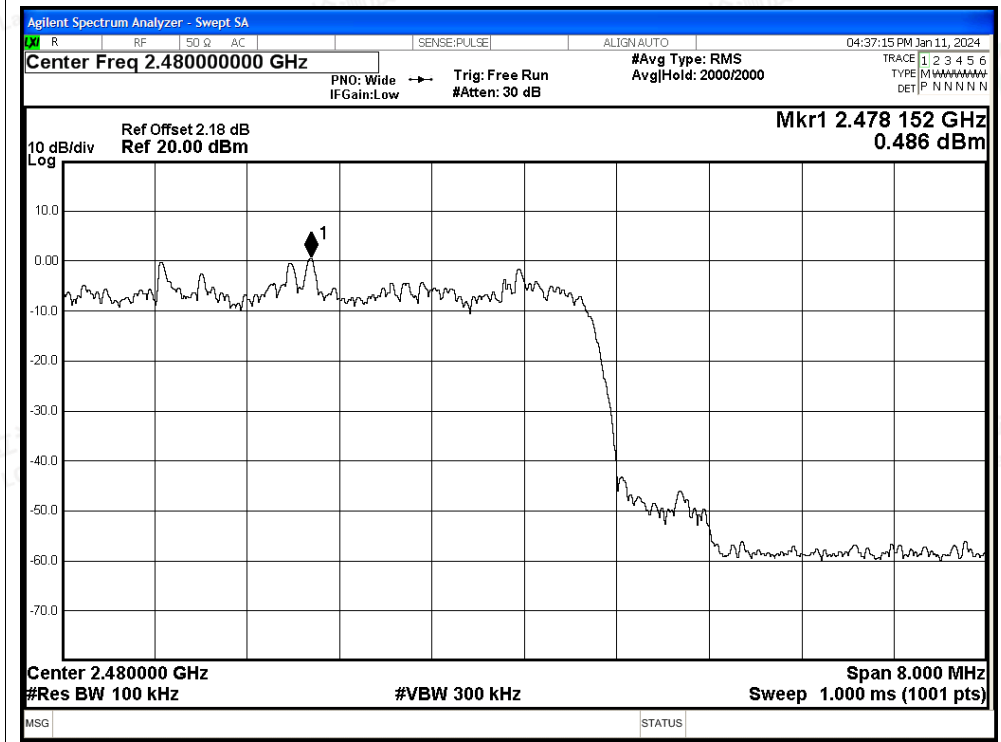


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Emission

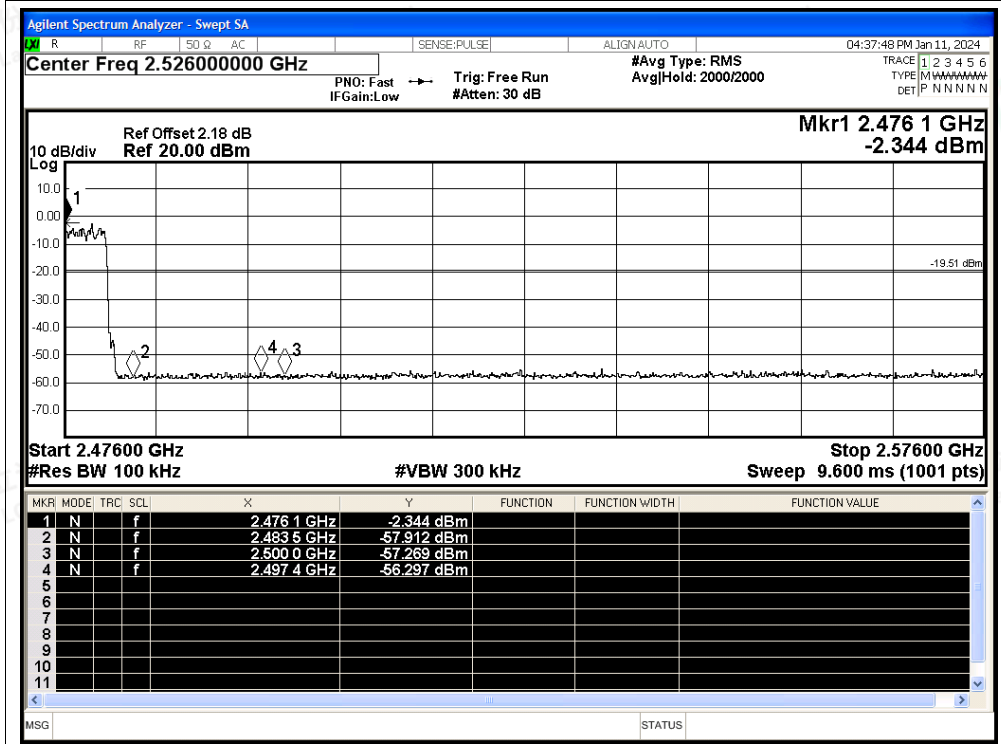




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Ref

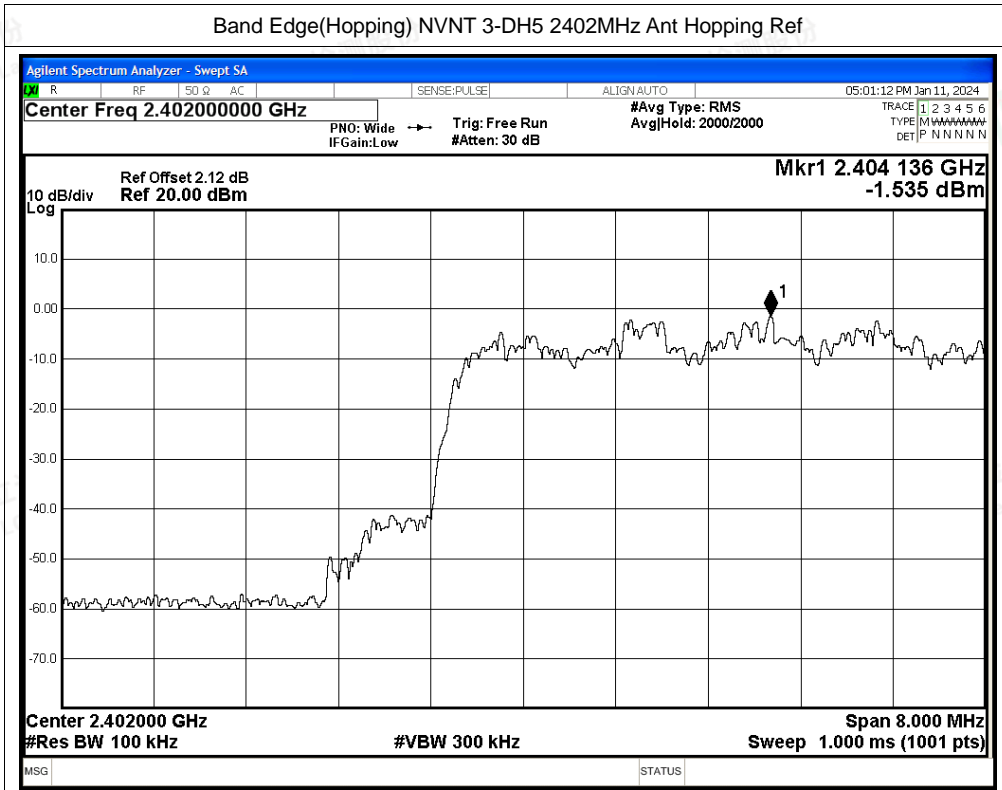


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Emission

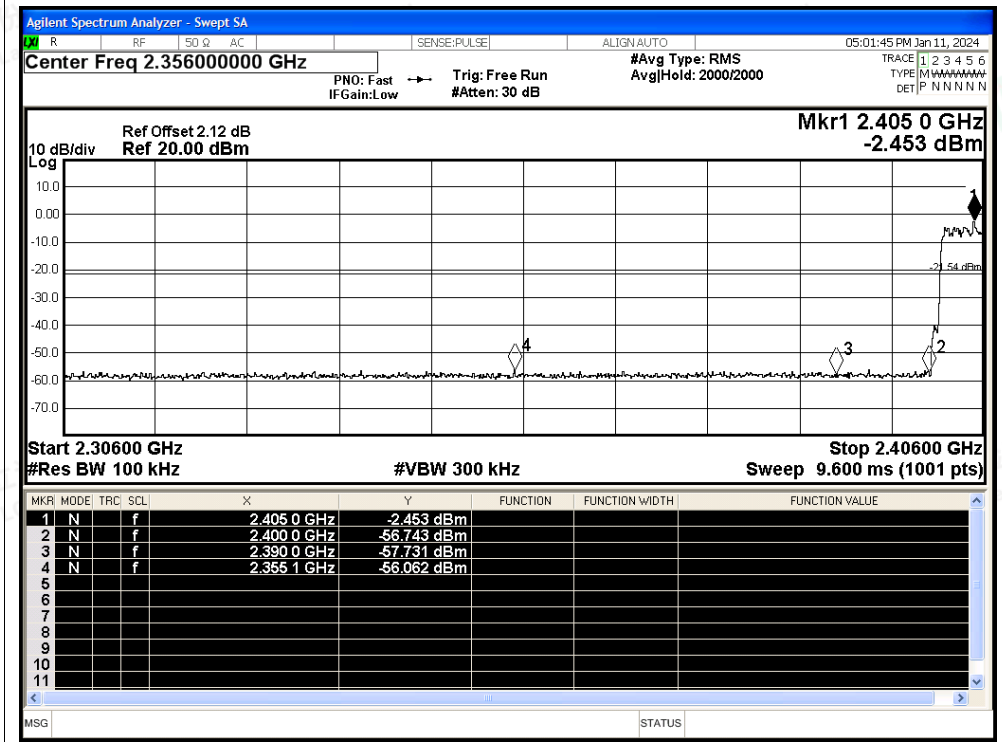


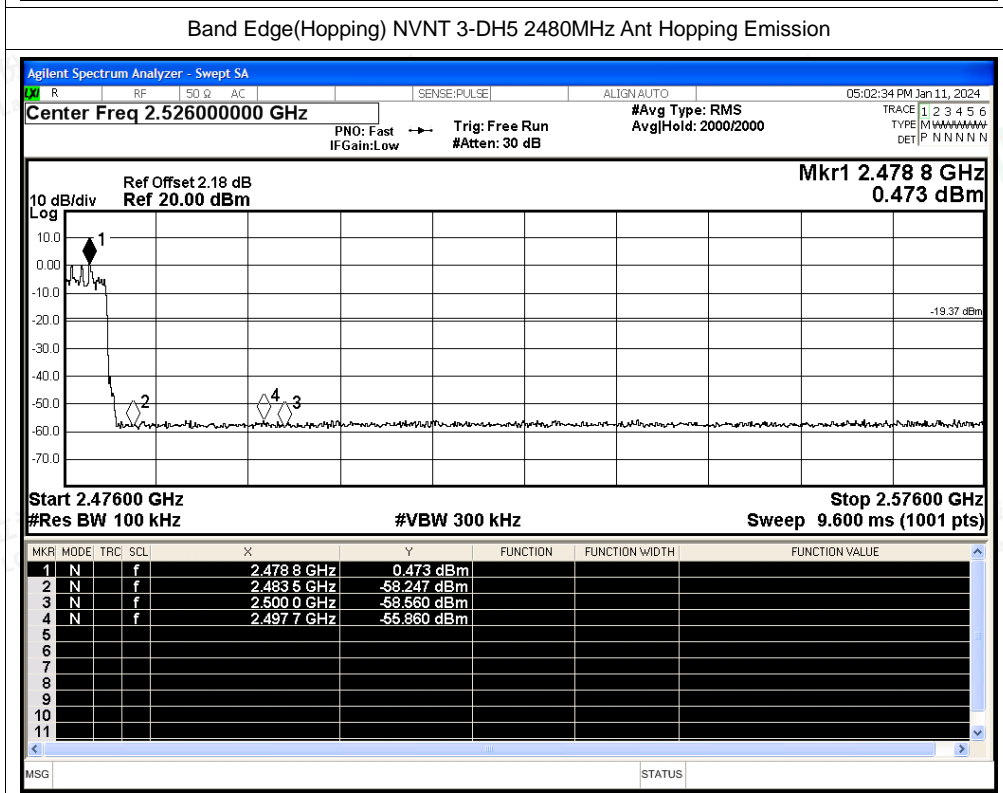
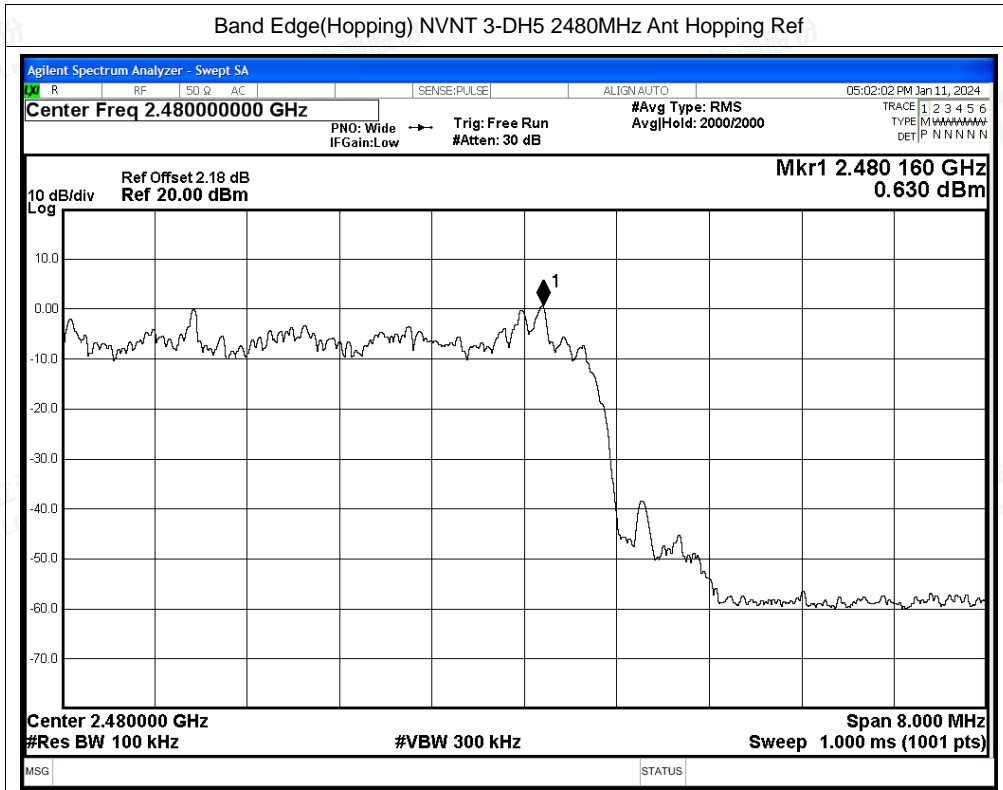


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Emission







A.7 Conducted RF Spurious Emission

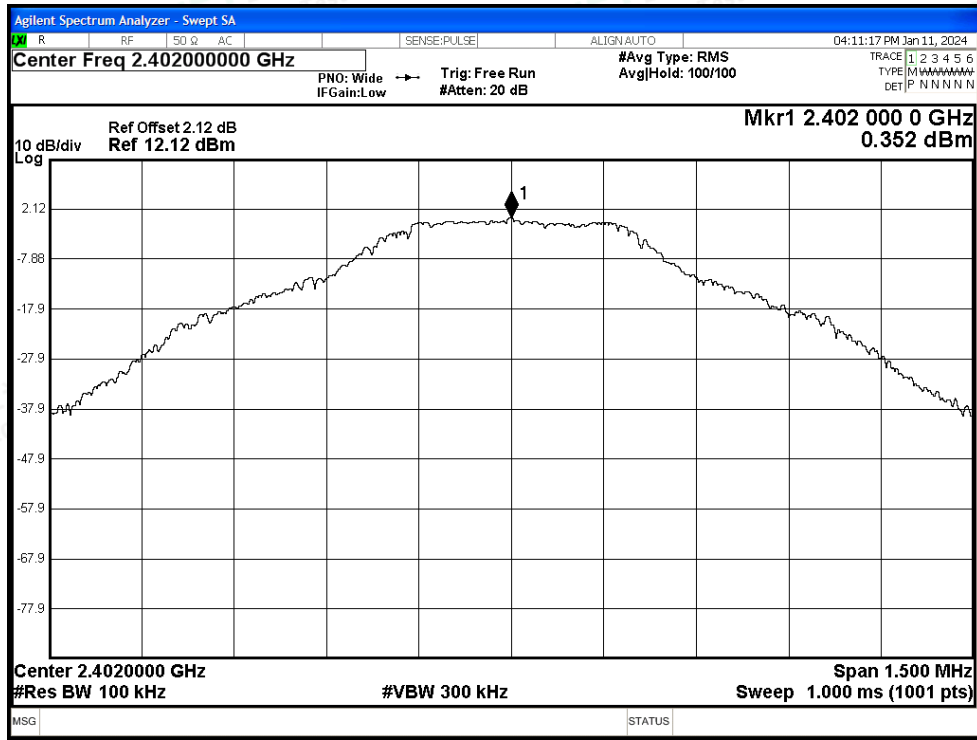
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	-55.95	-20	Pass
NVNT	1-DH5	2441	Ant	-55.39	-20	Pass
NVNT	1-DH5	2480	Ant	-56.22	-20	Pass
NVNT	2-DH5	2402	Ant	-55.29	-20	Pass
NVNT	2-DH5	2441	Ant	-54.26	-20	Pass
NVNT	2-DH5	2480	Ant	-55.44	-20	Pass
NVNT	3-DH5	2402	Ant	-55.23	-20	Pass
NVNT	3-DH5	2441	Ant	-54.82	-20	Pass
NVNT	3-DH5	2480	Ant	-54.69	-20	Pass



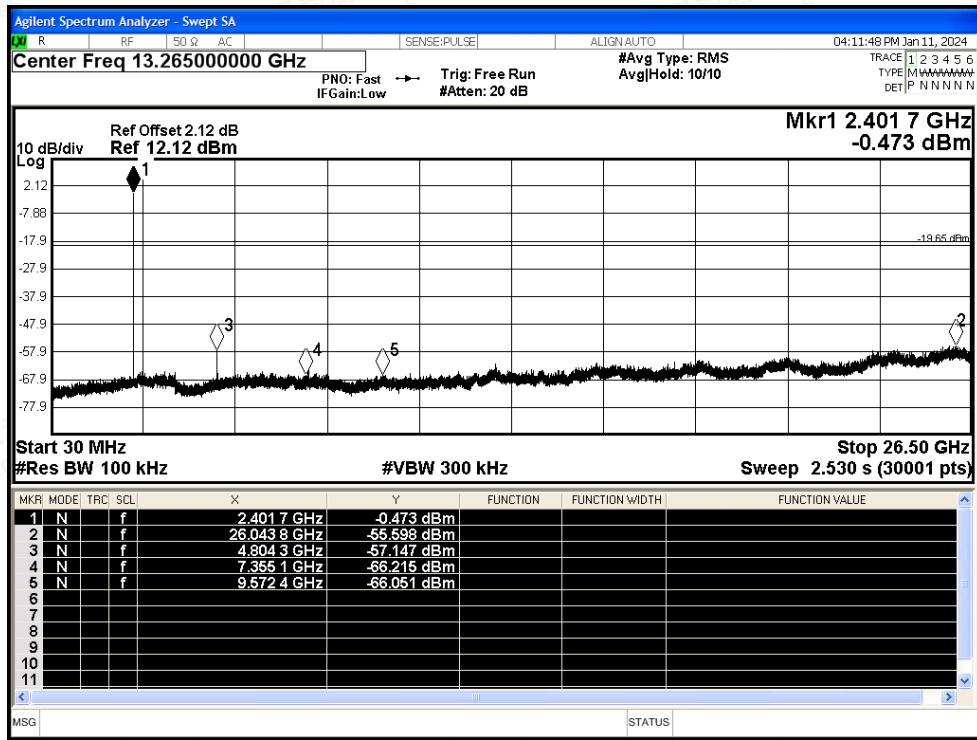


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant Ref

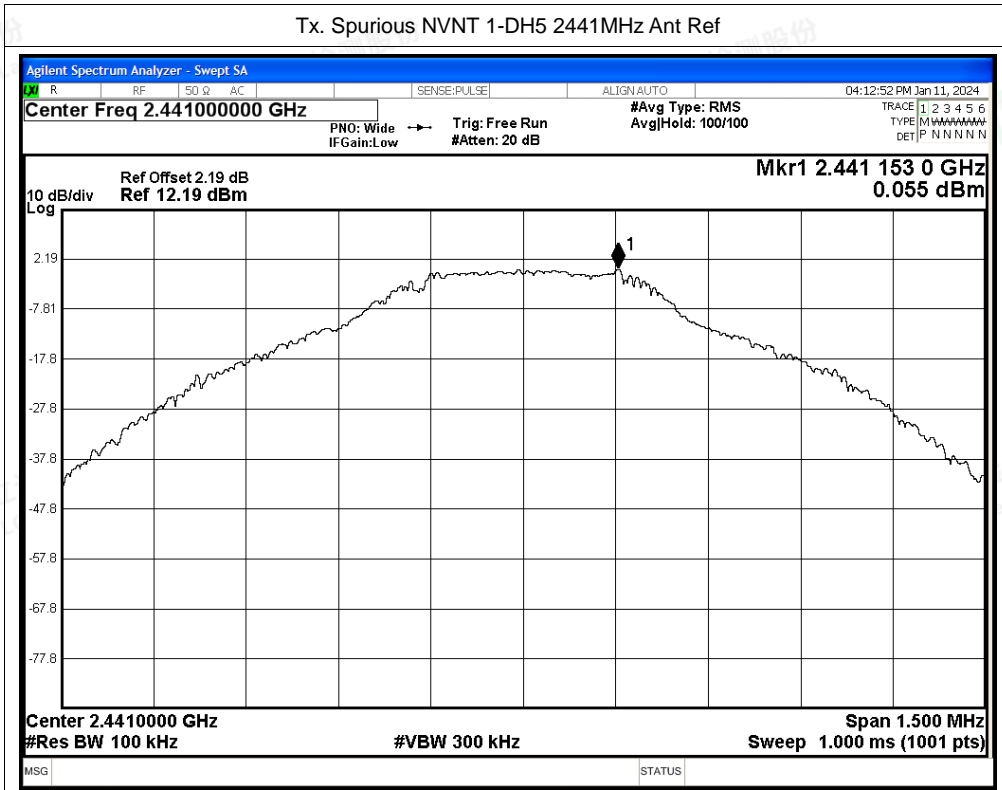


Tx. Spurious NVNT 1-DH5 2402MHz Ant Emission

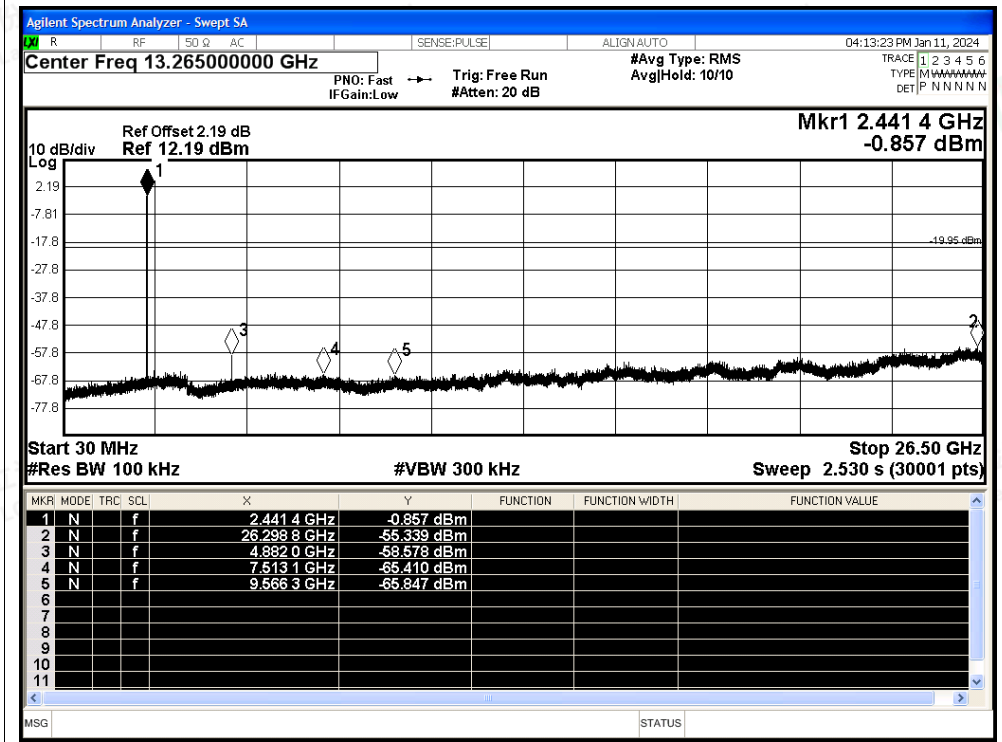




Tx. Spurious NVNT 1-DH5 2441MHz Ant Ref

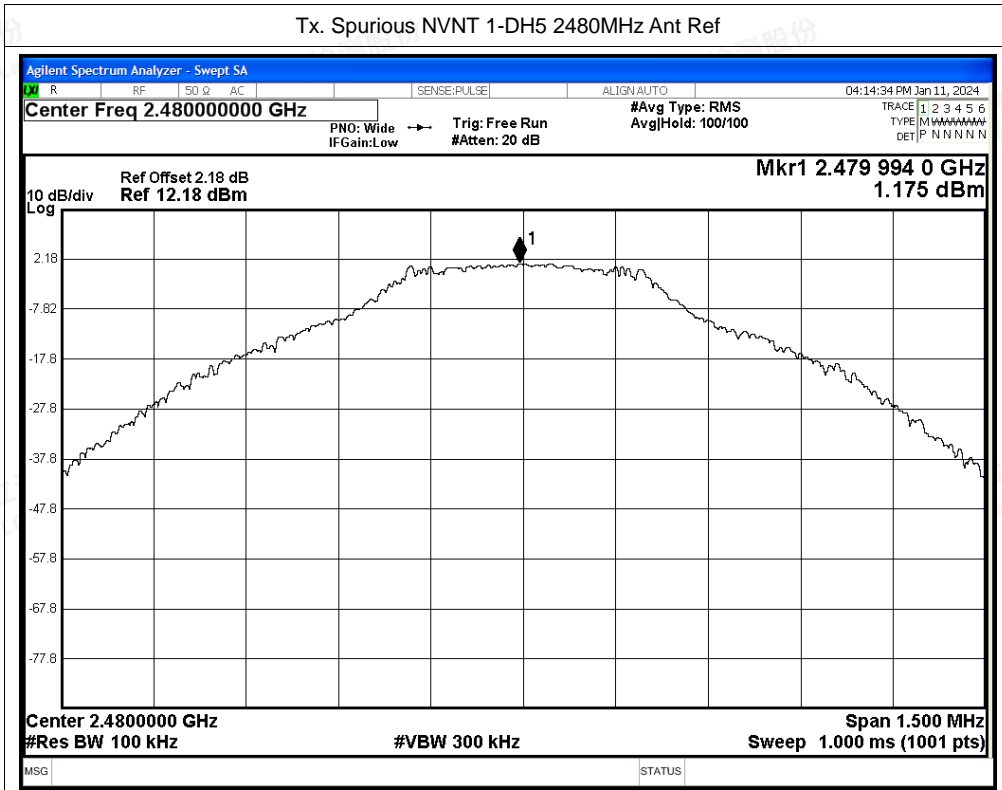


Tx. Spurious NVNT 1-DH5 2441MHz Ant Emission

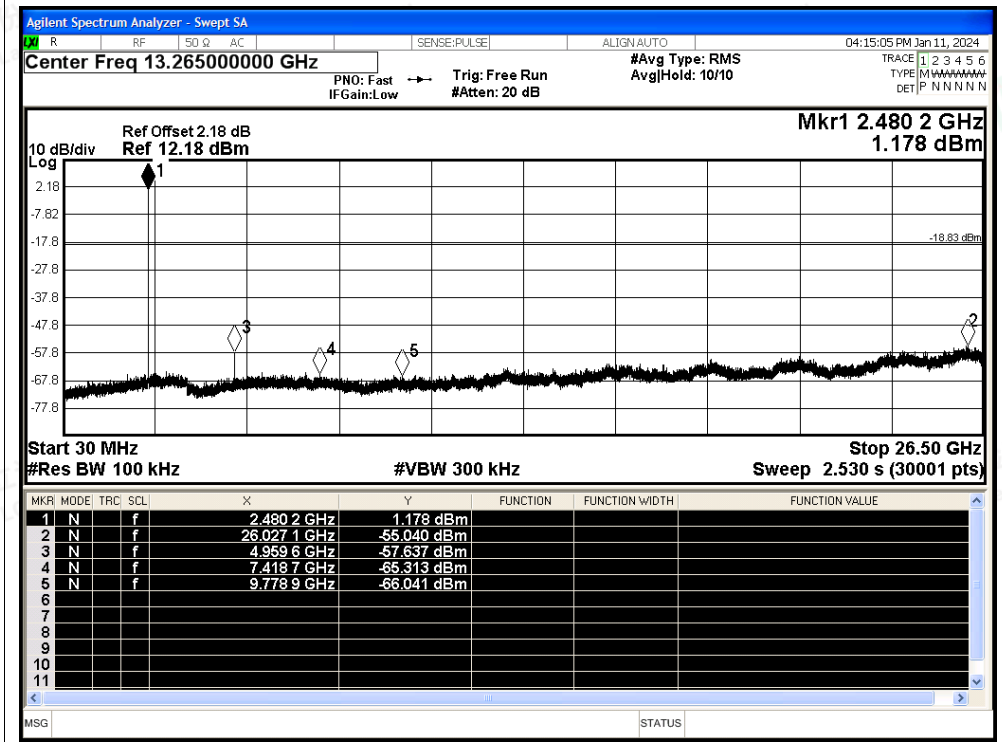




Tx. Spurious NVNT 1-DH5 2480MHz Ant Ref

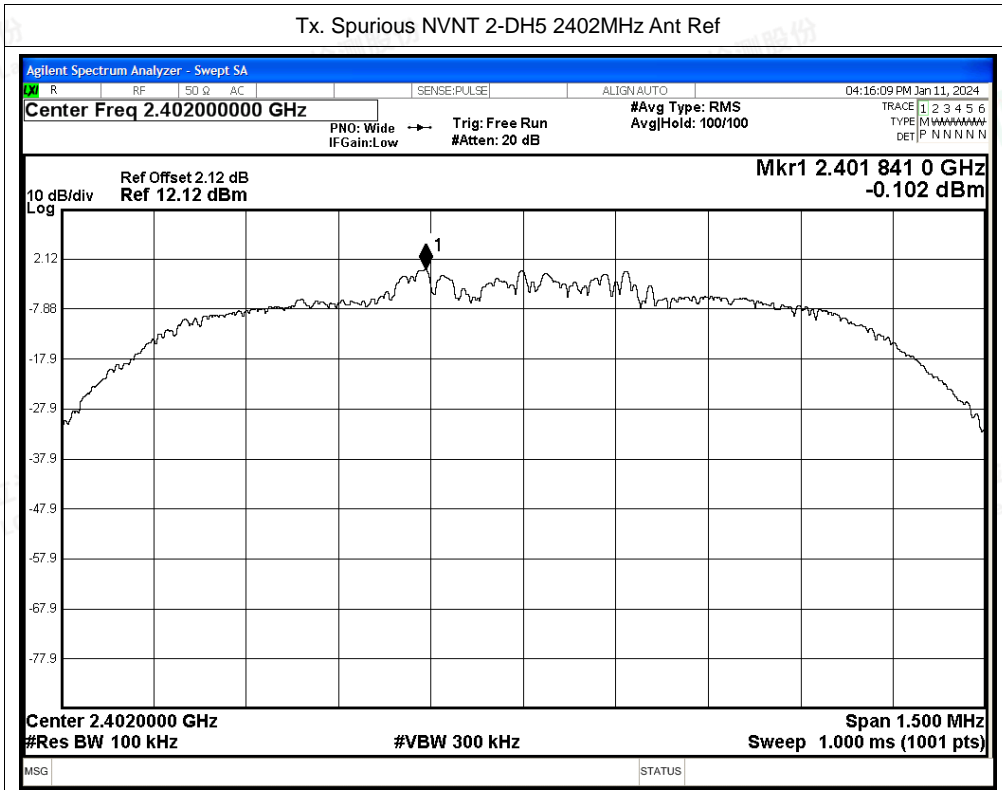


Tx. Spurious NVNT 1-DH5 2480MHz Ant Emission

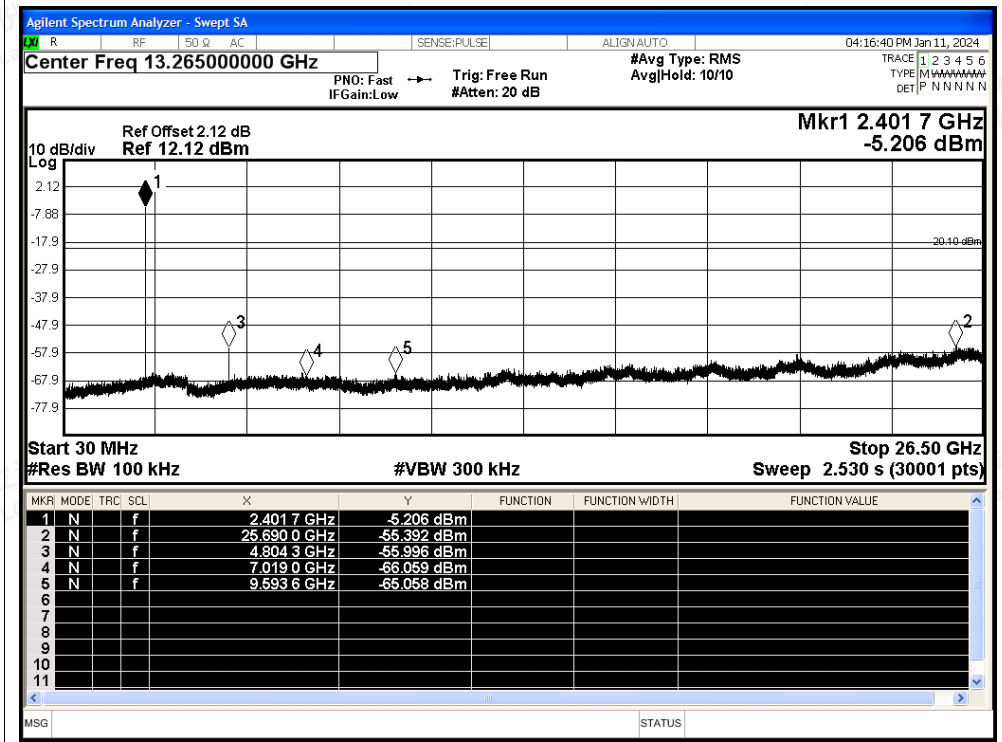




Tx. Spurious NVNT 2-DH5 2402MHz Ant Ref

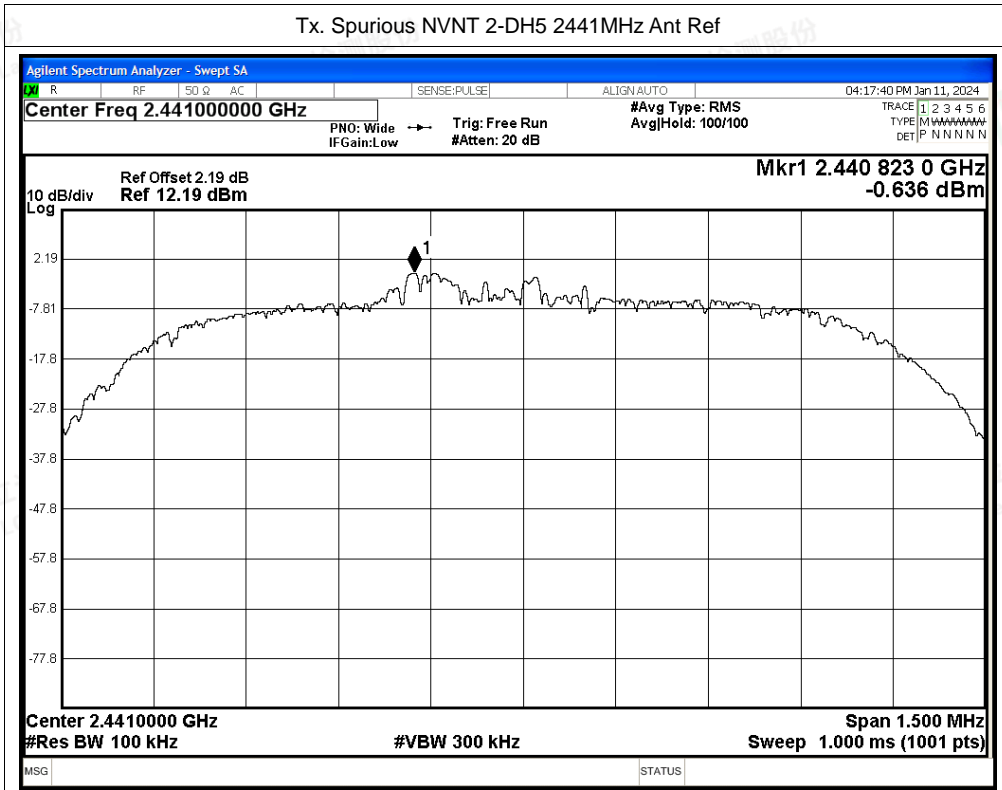


Tx. Spurious NVNT 2-DH5 2402MHz Ant Emission

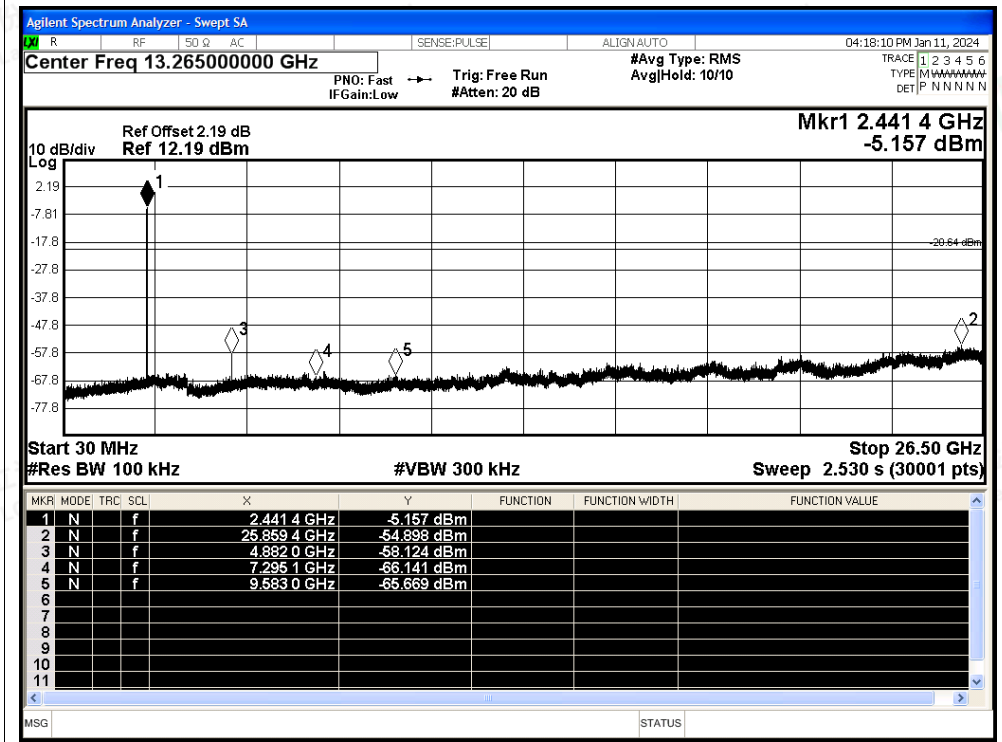




Tx. Spurious NVNT 2-DH5 2441MHz Ant Ref

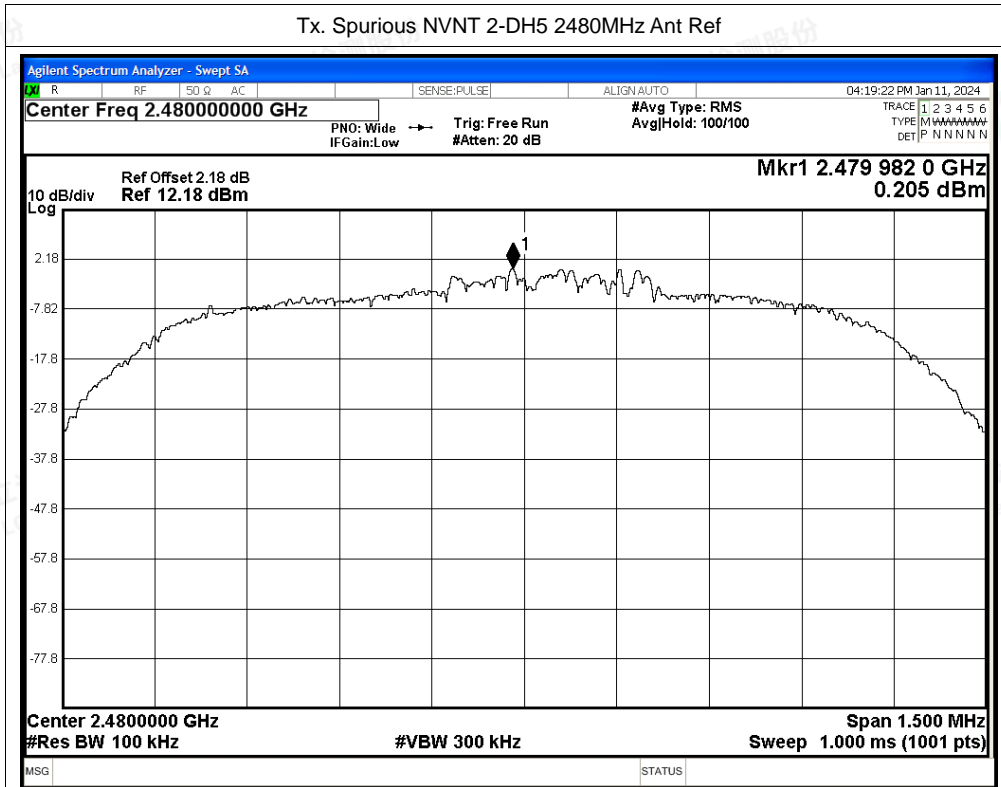


Tx. Spurious NVNT 2-DH5 2441MHz Ant Emission

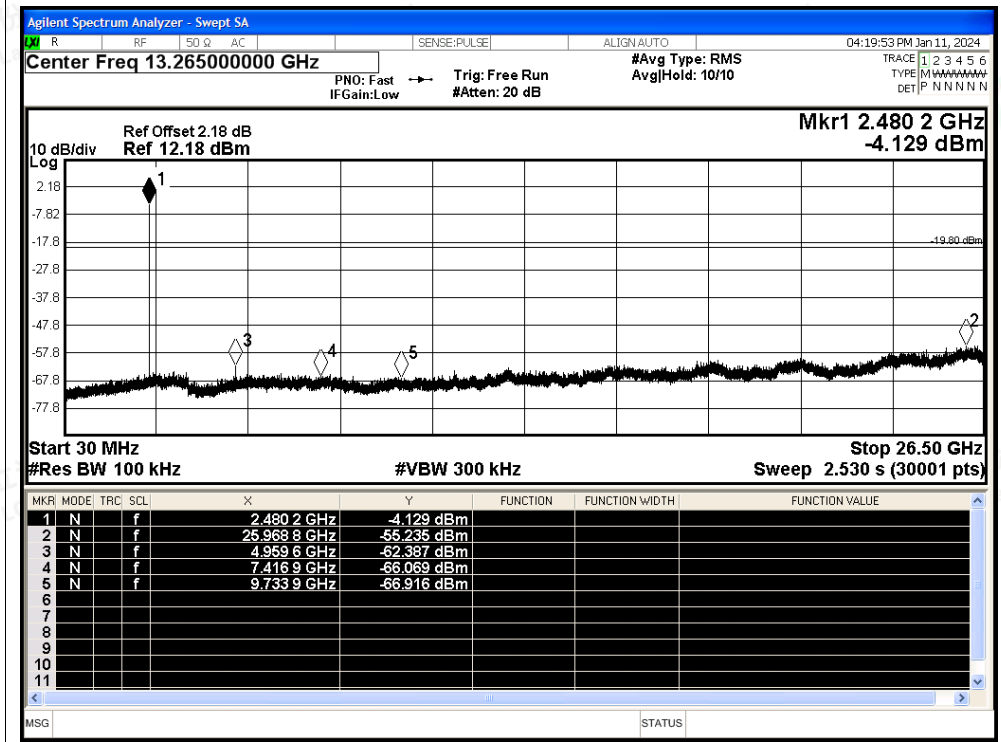




Tx. Spurious NVNT 2-DH5 2480MHz Ant Ref

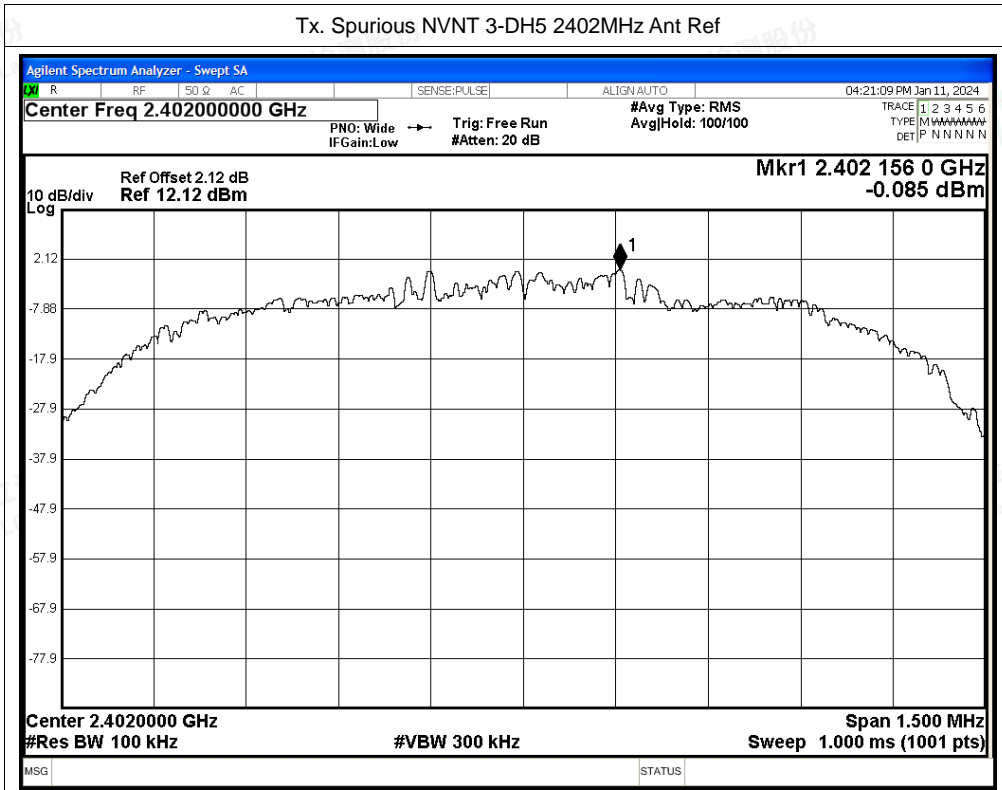


Tx. Spurious NVNT 2-DH5 2480MHz Ant Emission

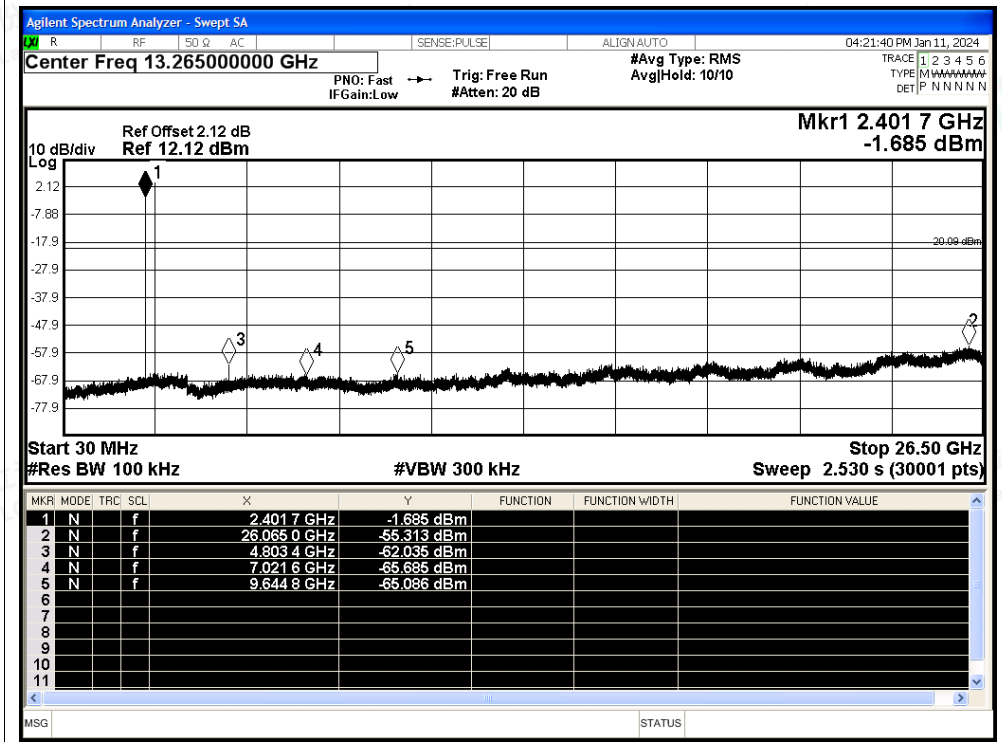




Tx. Spurious NVNT 3-DH5 2402MHz Ant Ref

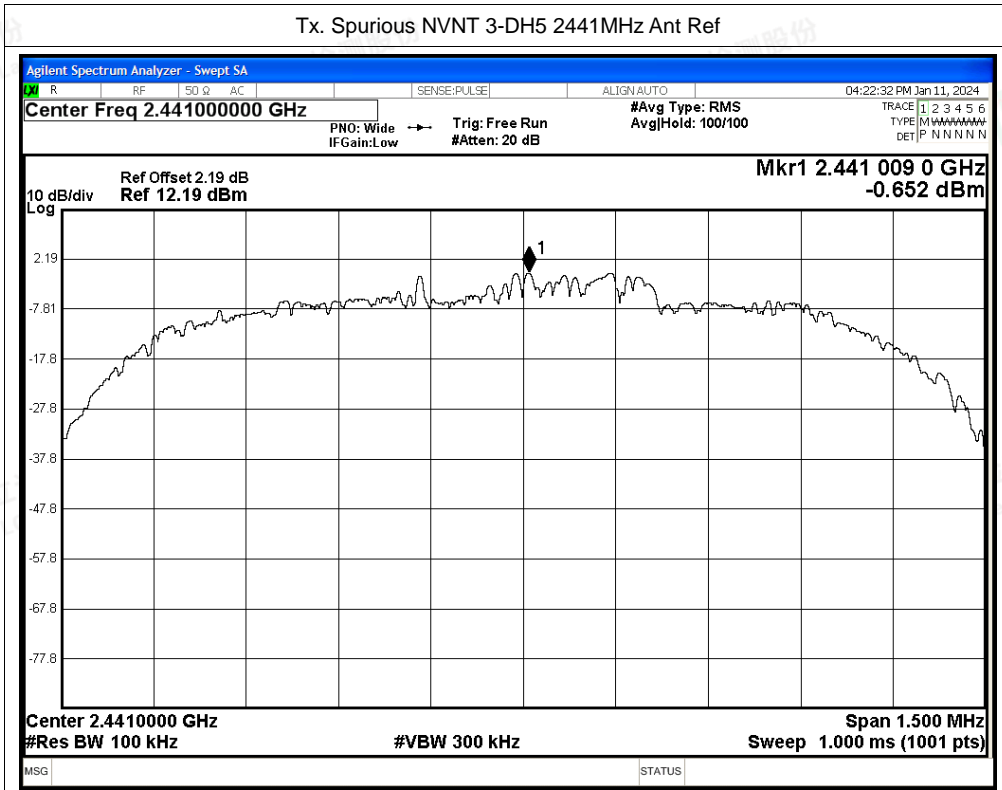


Tx. Spurious NVNT 3-DH5 2402MHz Ant Emission

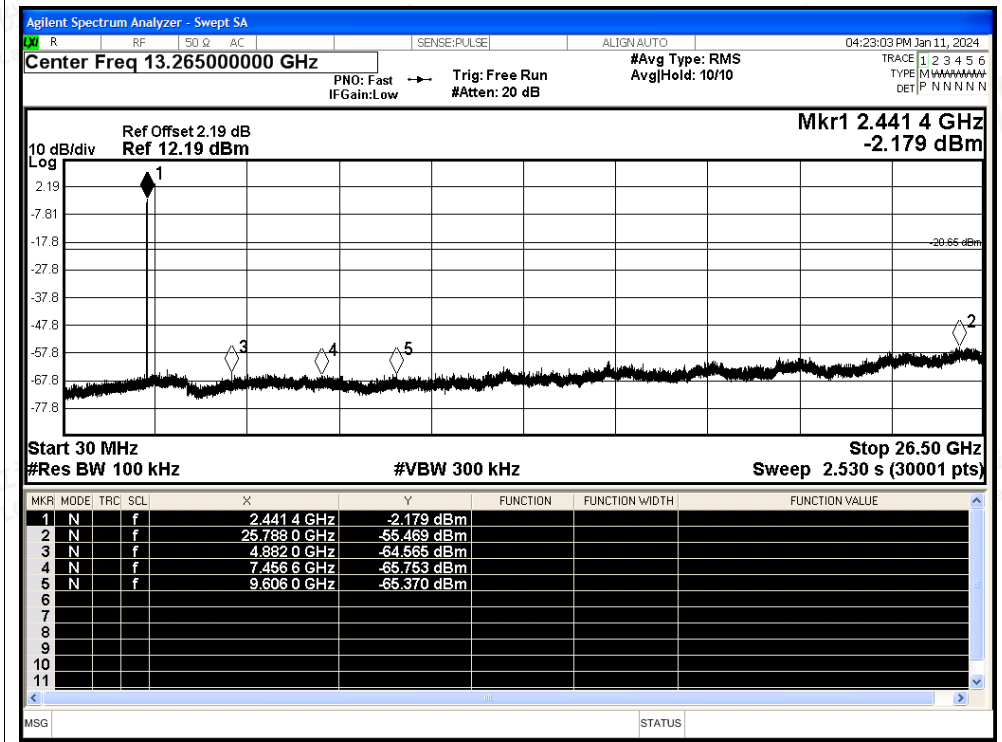




Tx. Spurious NVNT 3-DH5 2441MHz Ant Ref

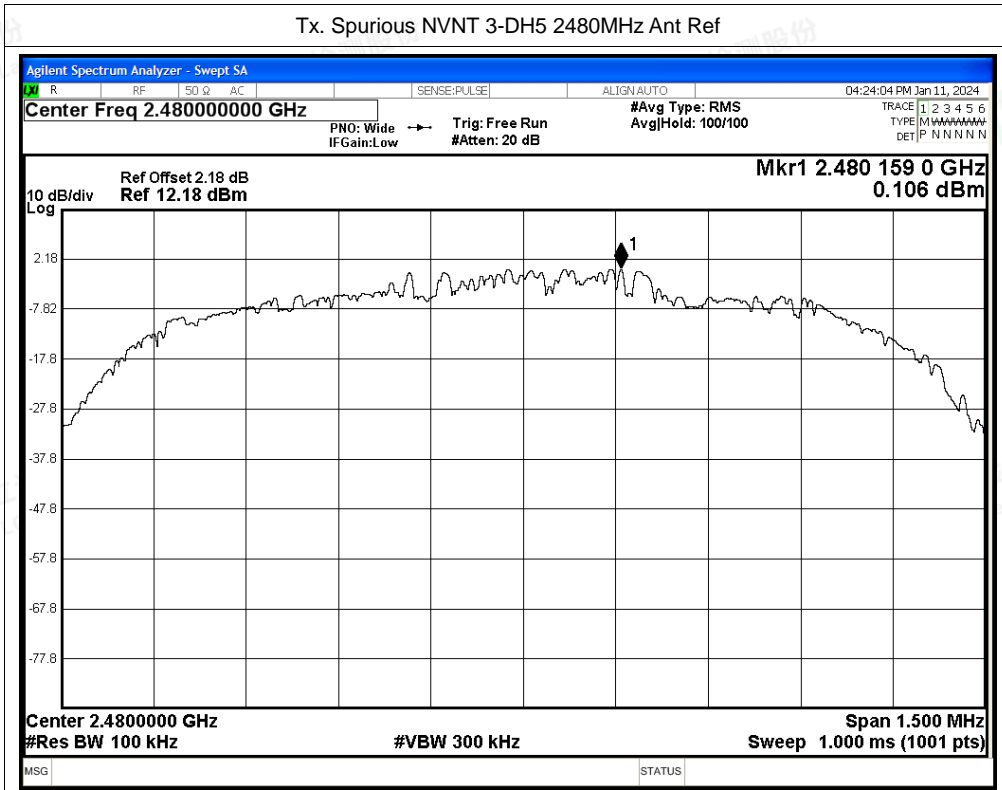


Tx. Spurious NVNT 3-DH5 2441MHz Ant Emission

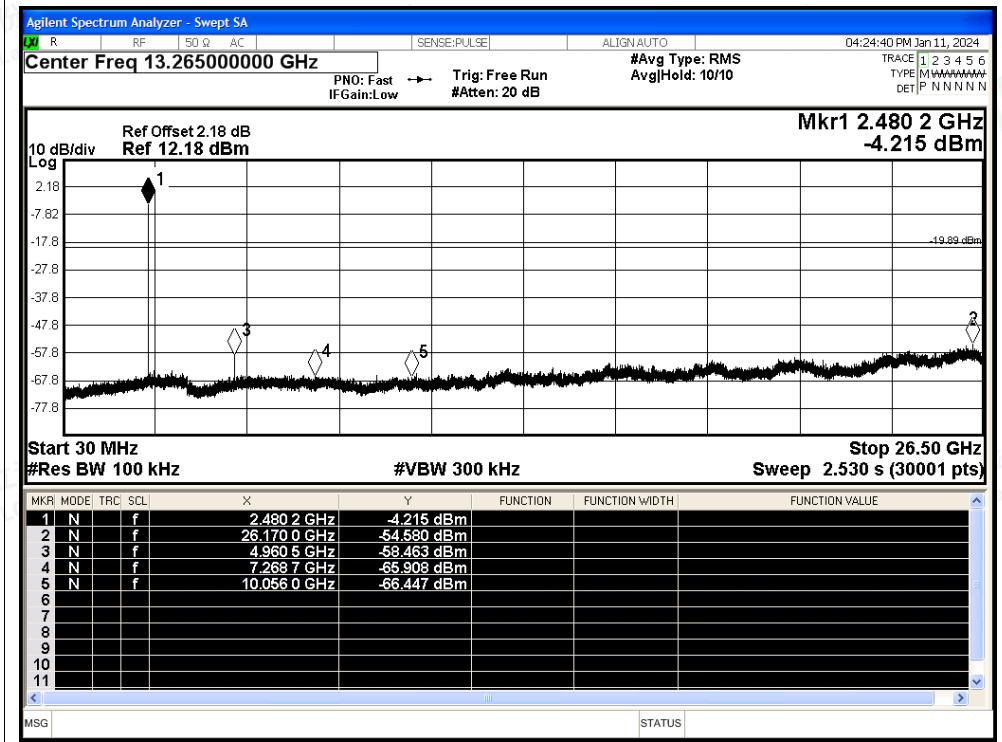




Tx. Spurious NVNT 3-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant Emission





A.8 Duty Cycle

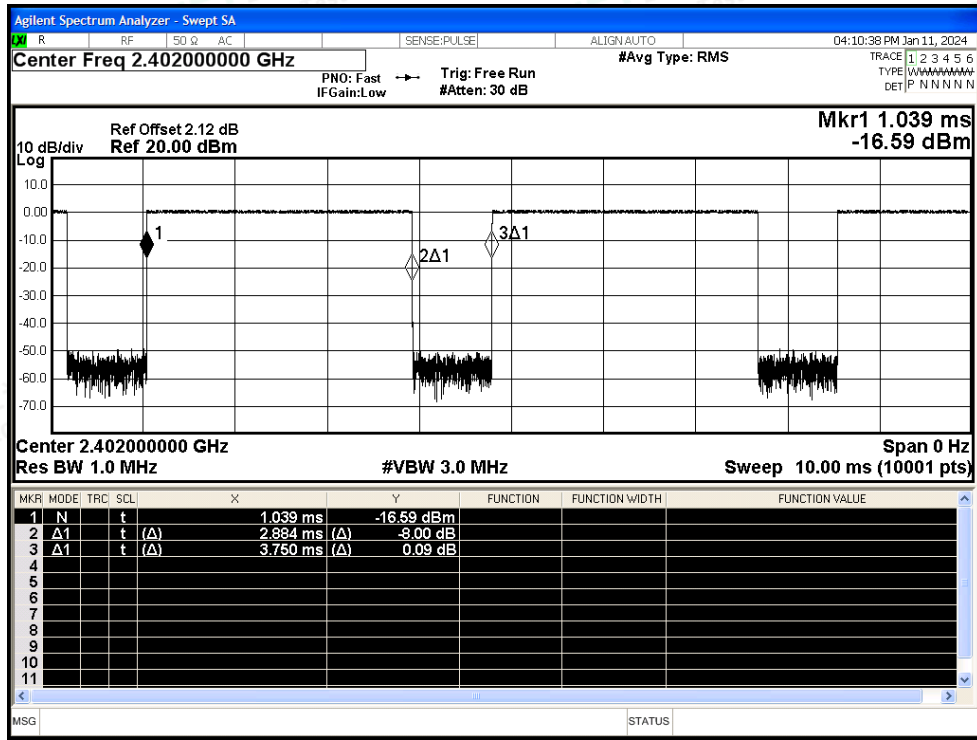
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant	76.91	1.14	0.35
NVNT	1-DH5	2441	Ant	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant	76.91	1.14	0.35
NVNT	2-DH5	2402	Ant	76.96	1.14	0.35
NVNT	2-DH5	2441	Ant	76.99	1.14	0.35
NVNT	2-DH5	2480	Ant	76.99	1.14	0.35
NVNT	3-DH5	2402	Ant	77.01	1.13	0.35
NVNT	3-DH5	2441	Ant	77.01	1.13	0.35
NVNT	3-DH5	2480	Ant	77.01	1.13	0.35



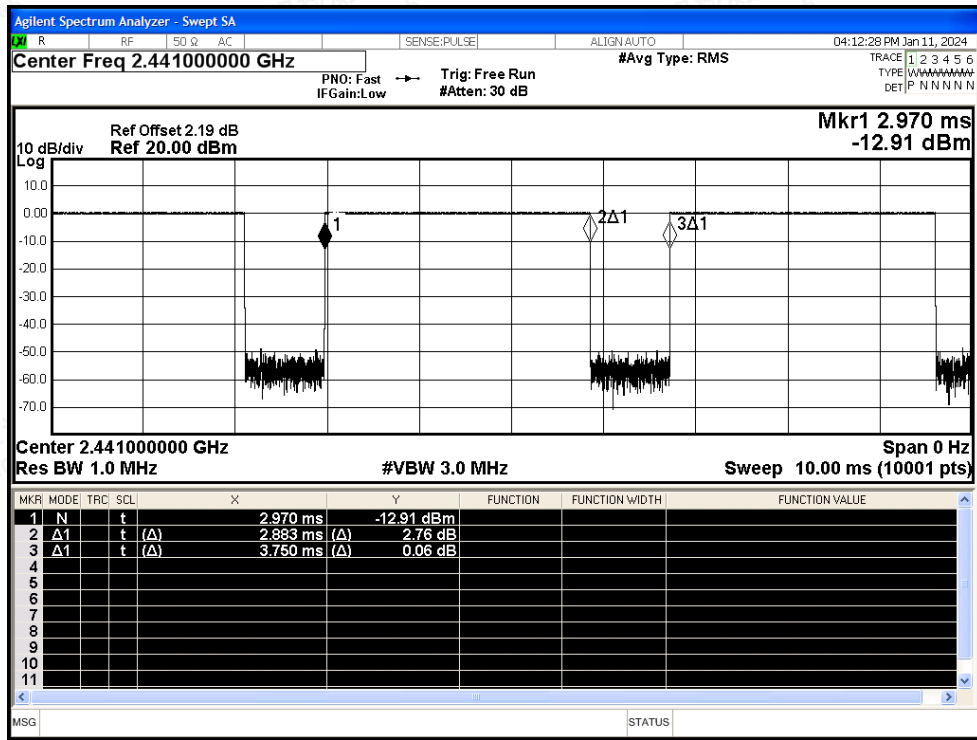


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant

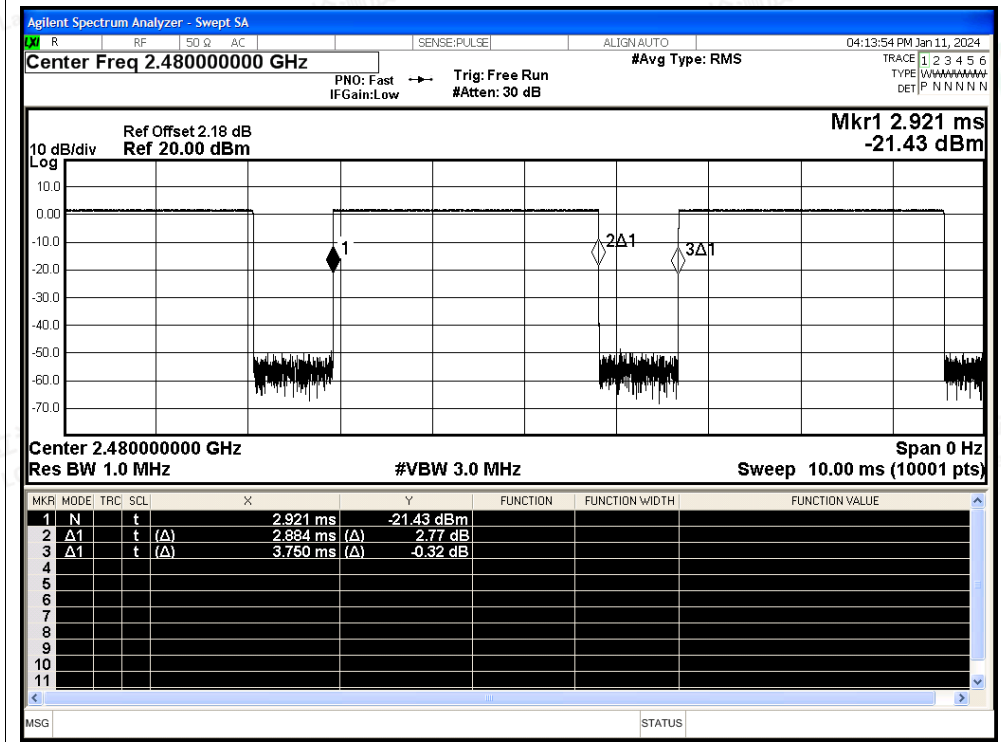


Duty Cycle NVNT 1-DH5 2441MHz Ant

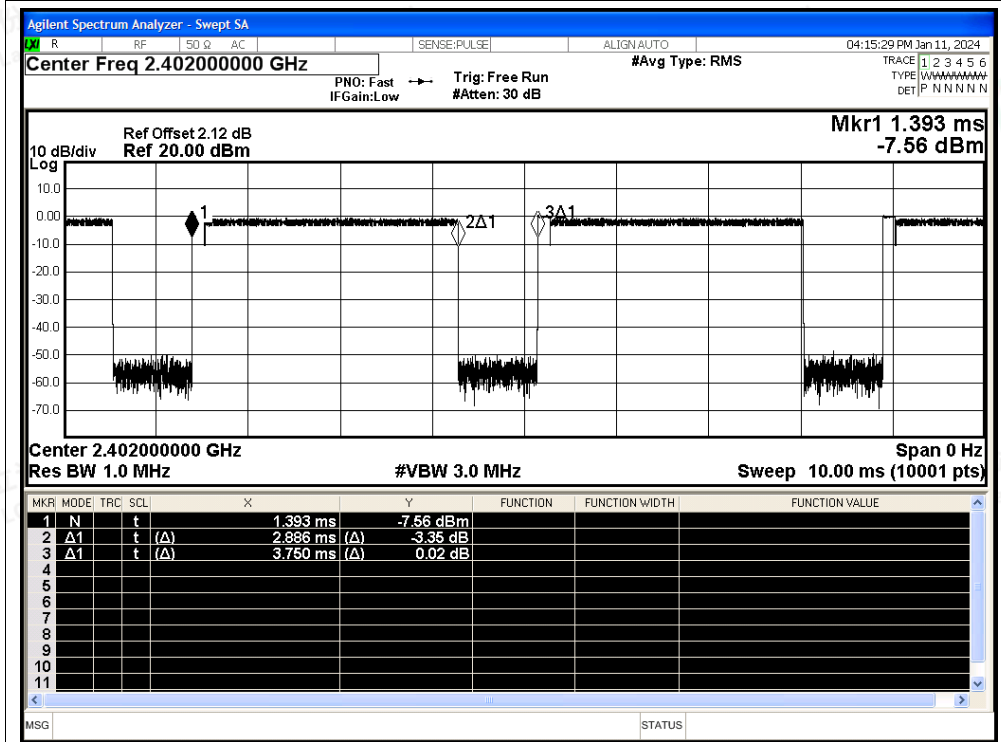




Duty Cycle NVNT 1-DH5 2480MHz Ant

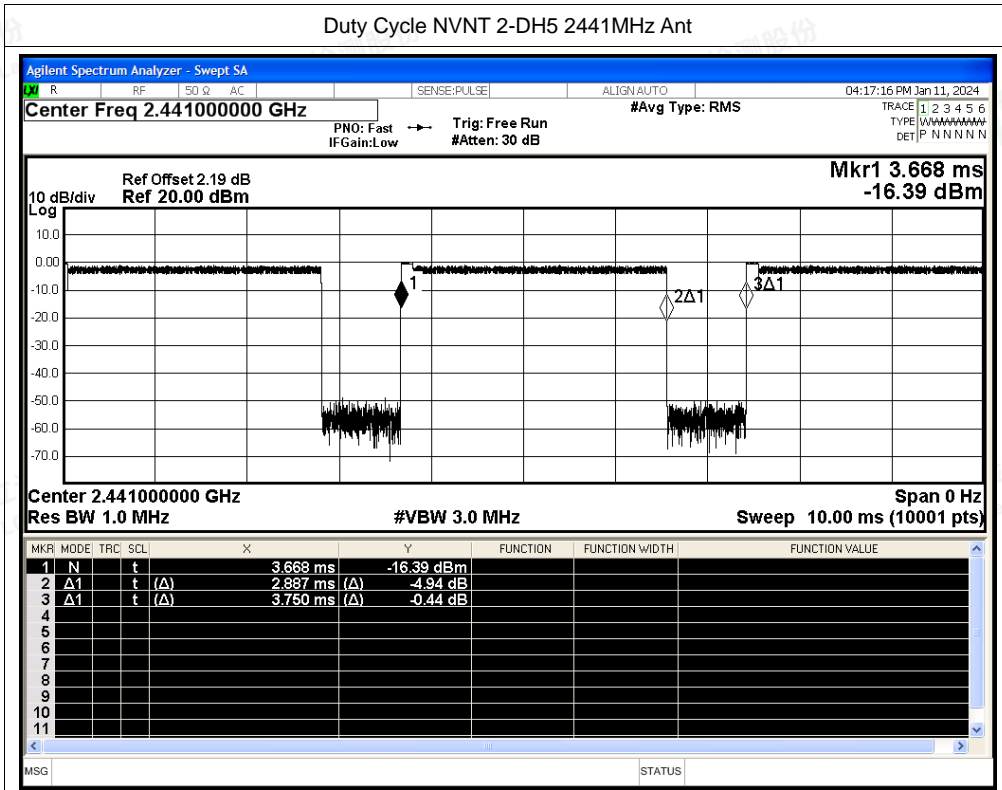


Duty Cycle NVNT 2-DH5 2402MHz Ant

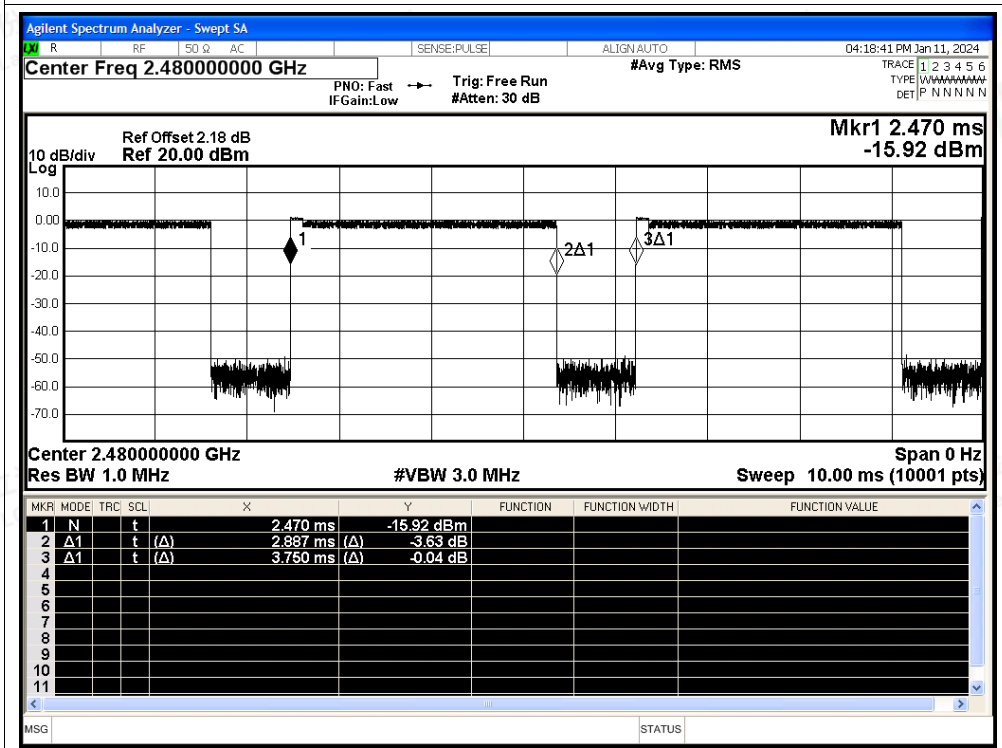




Duty Cycle NVNT 2-DH5 2441MHz Ant

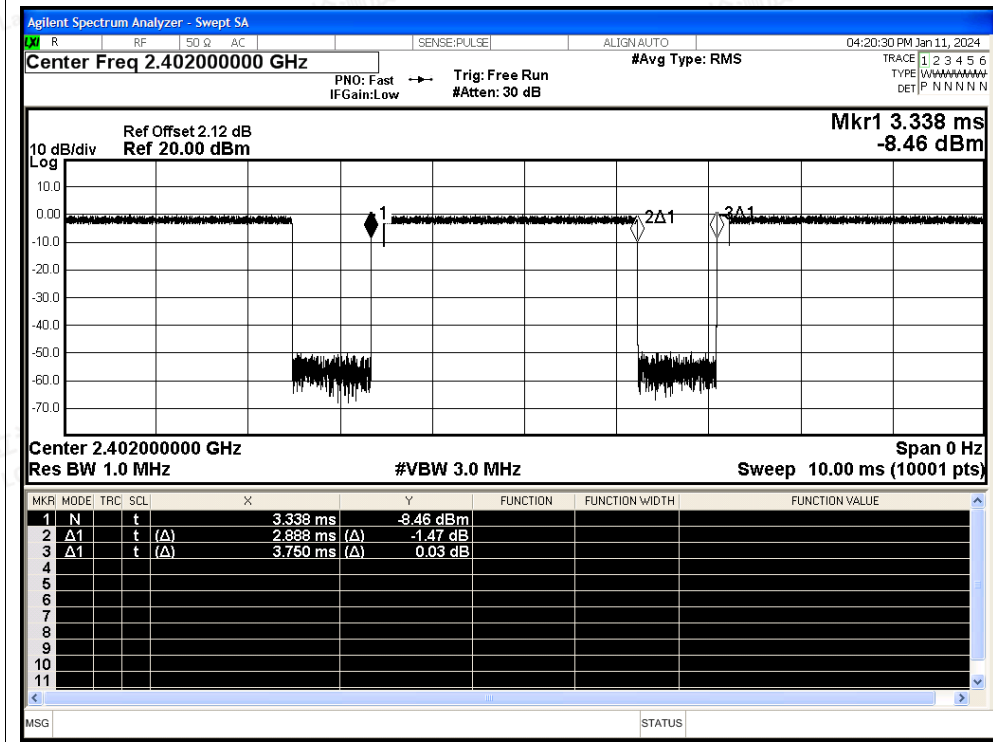


Duty Cycle NVNT 2-DH5 2480MHz Ant

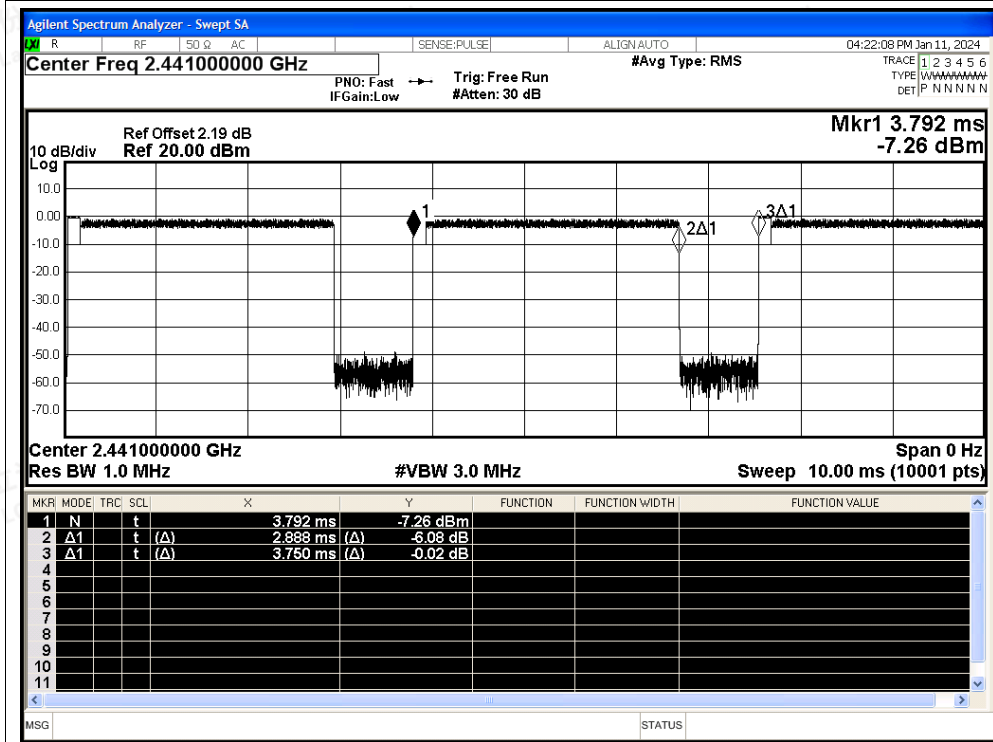


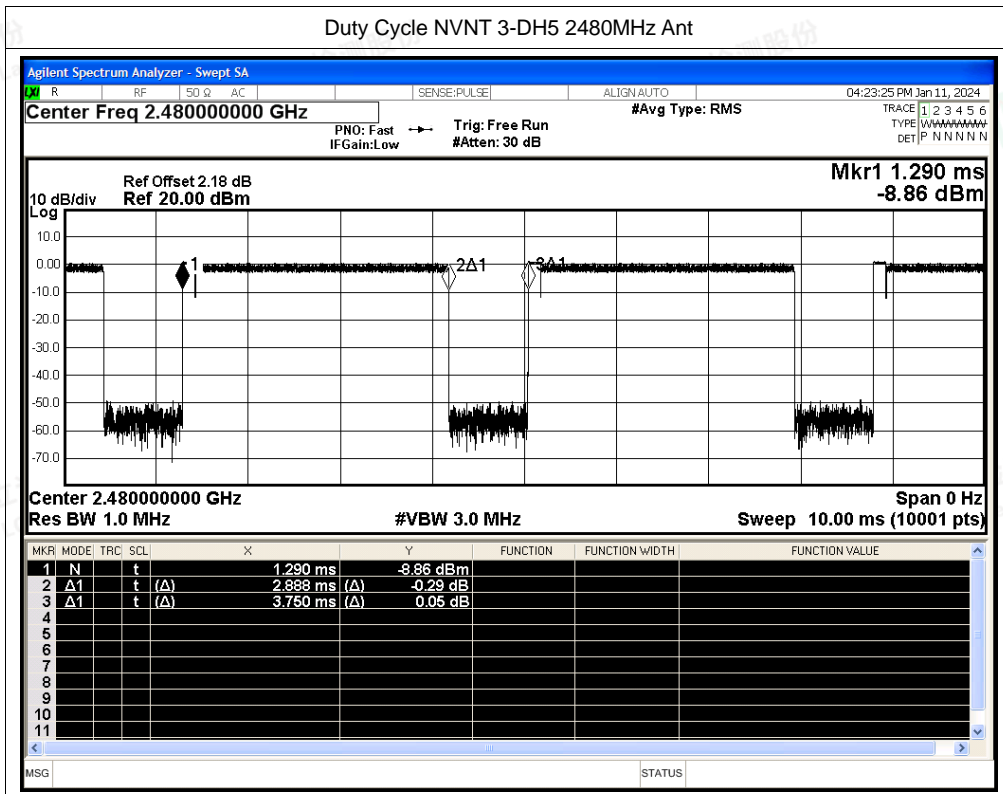


Duty Cycle NVNT 3-DH5 2402MHz Ant



Duty Cycle NVNT 3-DH5 2441MHz Ant







A.9 Restrict Band

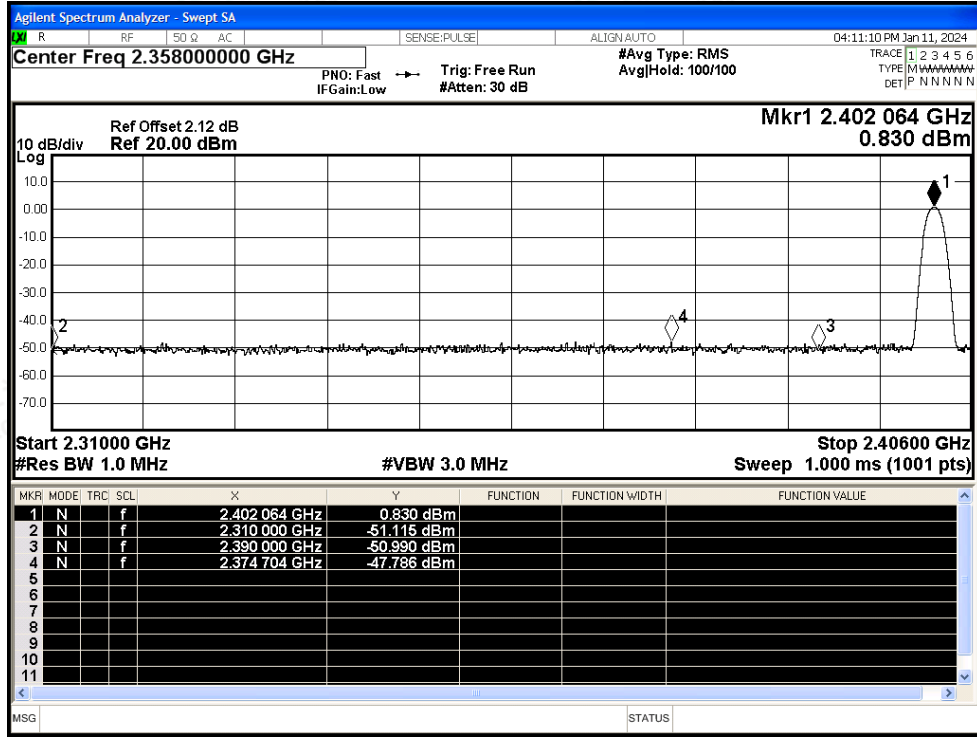
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-51.12	2	-	46.14	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-58.9	2	1.14	39.5	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2374.704	-47.79	2	-	49.47	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2364.816	-57.76	2	1.14	40.64	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-50.99	2	-	46.27	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-58.16	2	1.14	40.24	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-48.66	2	-	48.6	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-57.75	2	1.14	40.65	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2498.656	-46.79	2	-	50.47	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2486.608	-56.89	2	1.14	41.51	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-48.12	2	-	49.14	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-58.06	2	1.14	40.34	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-51.03	2	-	46.23	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-58.59	2	1.14	39.81	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2359.152	-47.89	2	-	49.37	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2387.568	-57.64	2	1.14	40.76	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-49.81	2	-	47.45	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-59.09	2	1.14	39.31	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-50.61	2	-	46.65	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-57.66	2	1.14	40.74	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2499.424	-47.12	2	-	50.14	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2490.472	-56.99	2	1.14	41.41	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-50.97	2	-	46.29	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-57.54	2	1.14	40.86	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-50.82	2	-	46.44	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-58.4	2	1.13	39.99	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2377.968	-47.24	2	-	50.02	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2389.2	-57.53	2	1.13	40.86	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-51	2	-	46.26	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-58.55	2	1.13	39.84	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-47.96	2	-	49.3	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-58.18	2	1.13	40.21	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2485.576	-47.34	2	-	49.92	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2495.056	-57.13	2	1.13	41.26	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-49	2	-	48.26	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-58.09	2	1.13	40.3	Average	54	Pass



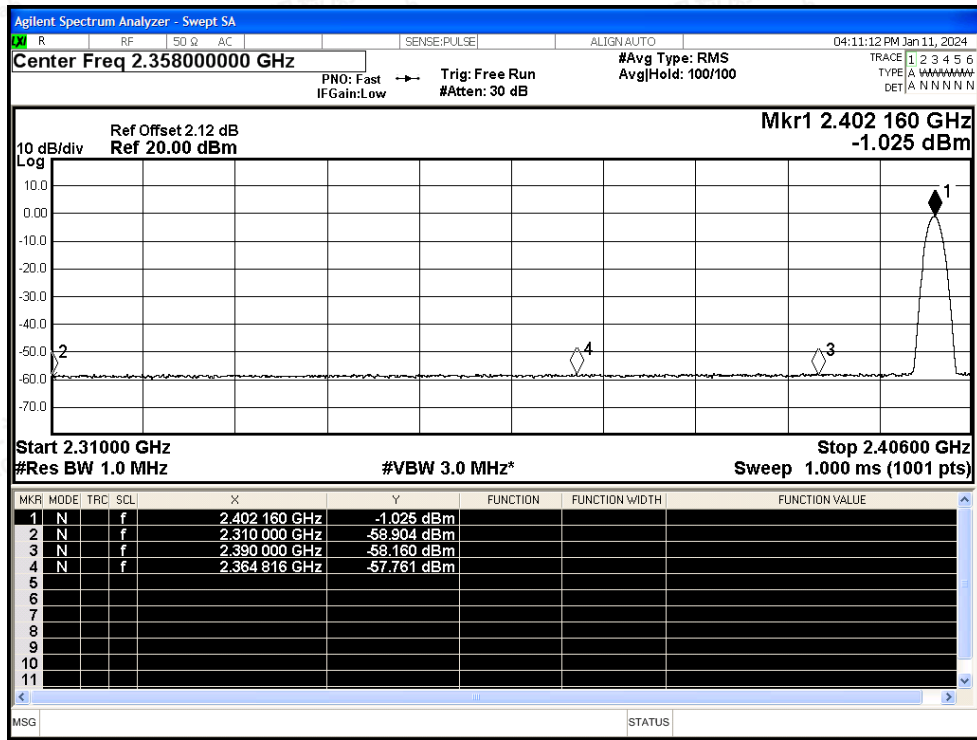


Test Graphs

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

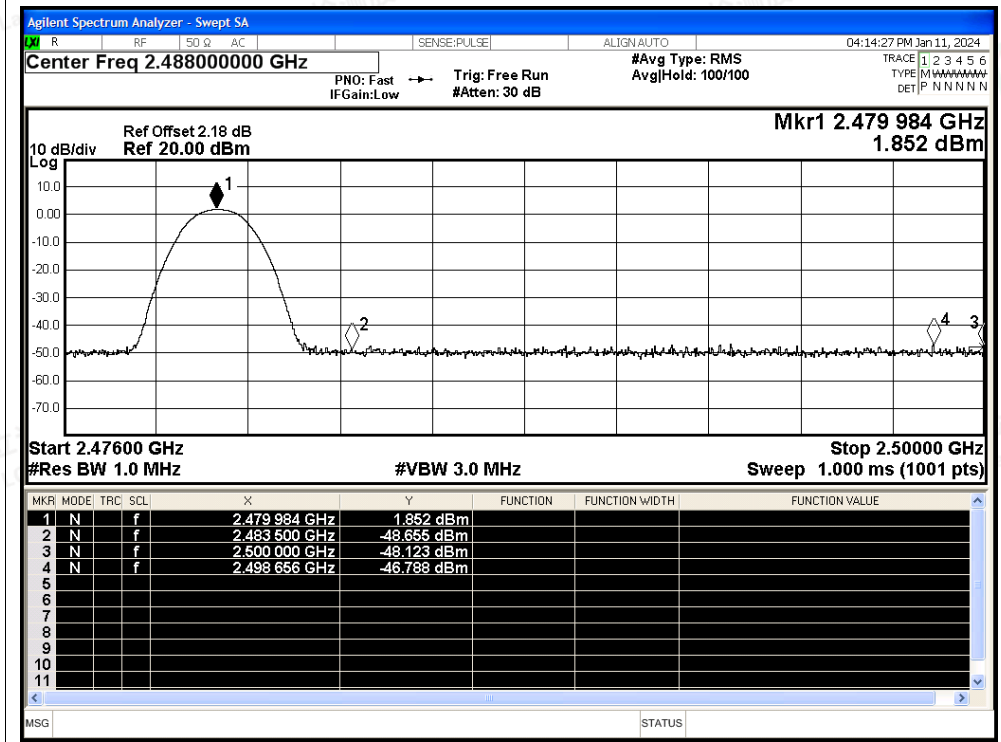


Restrict Band NVNT 1-DH5 2402MHz Ant No-Hopping Average

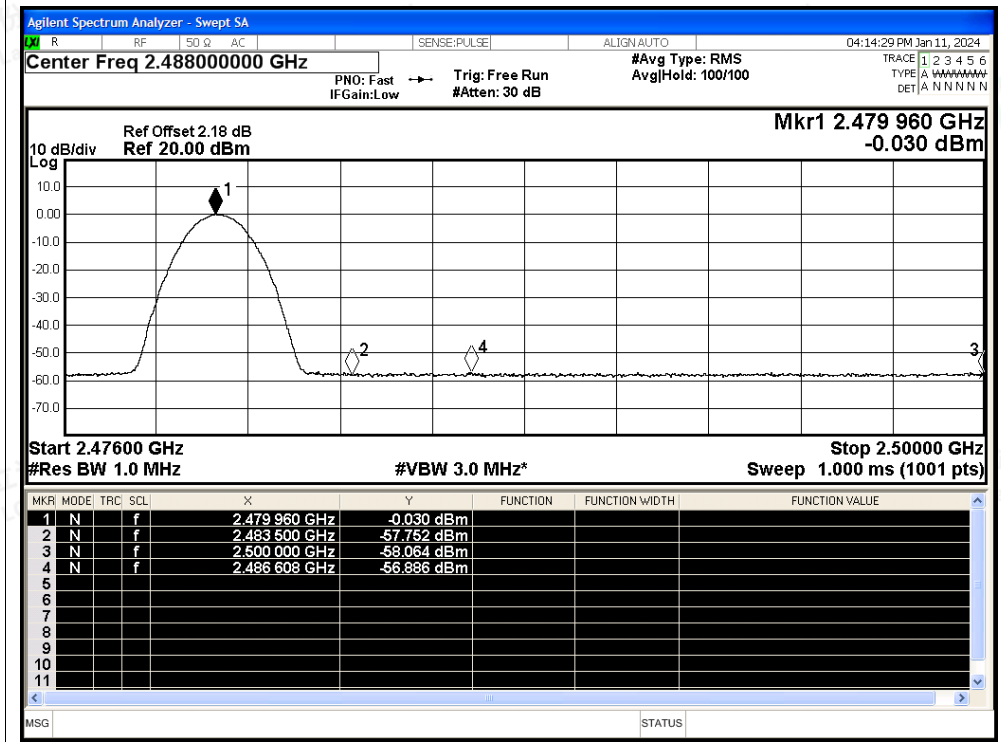




Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Peak

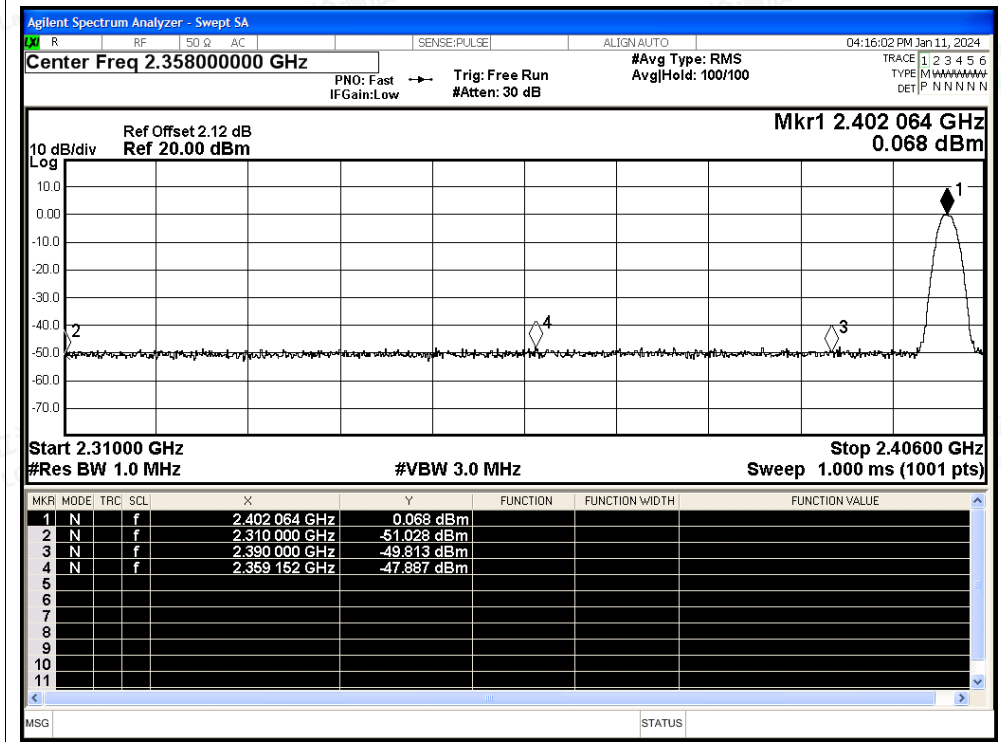


Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Average

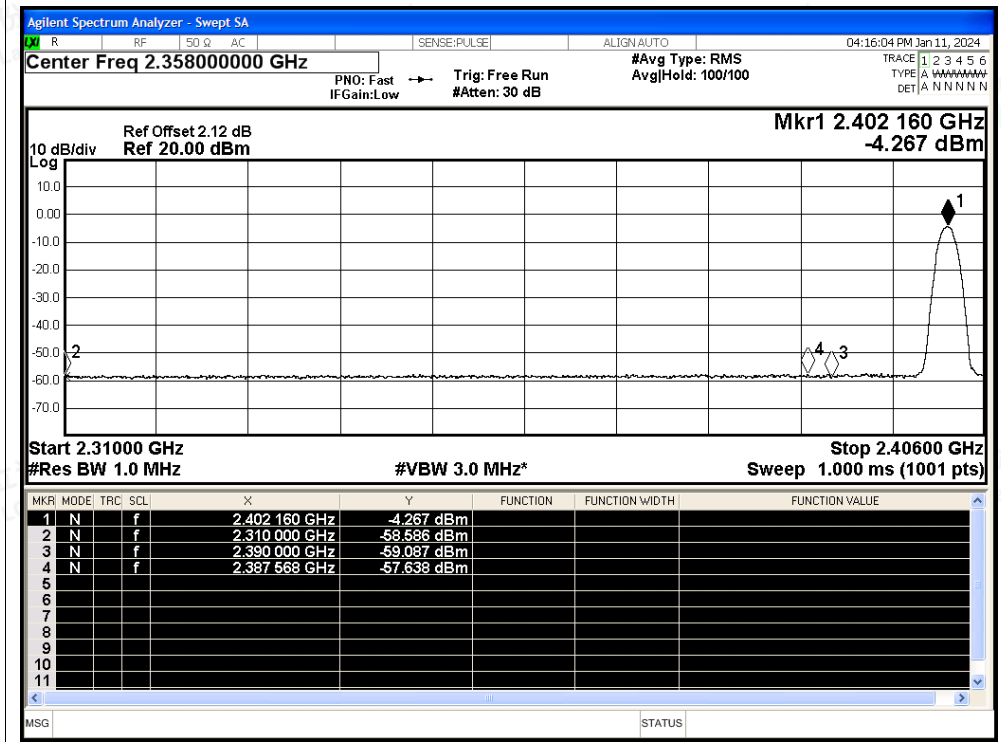




Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Peak

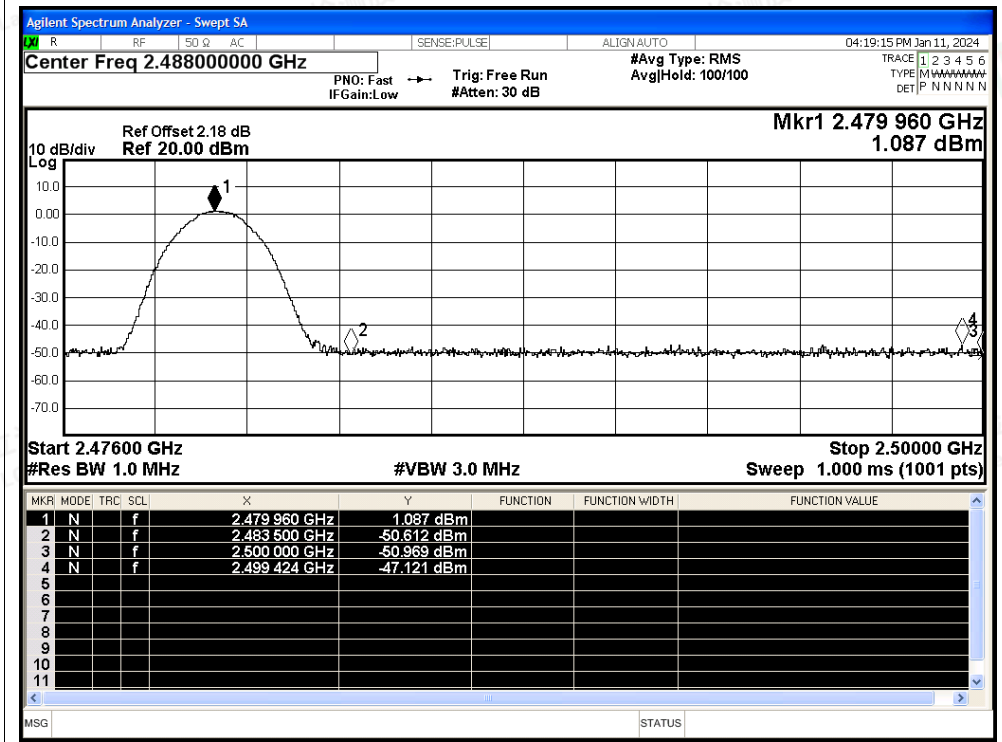


Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Average

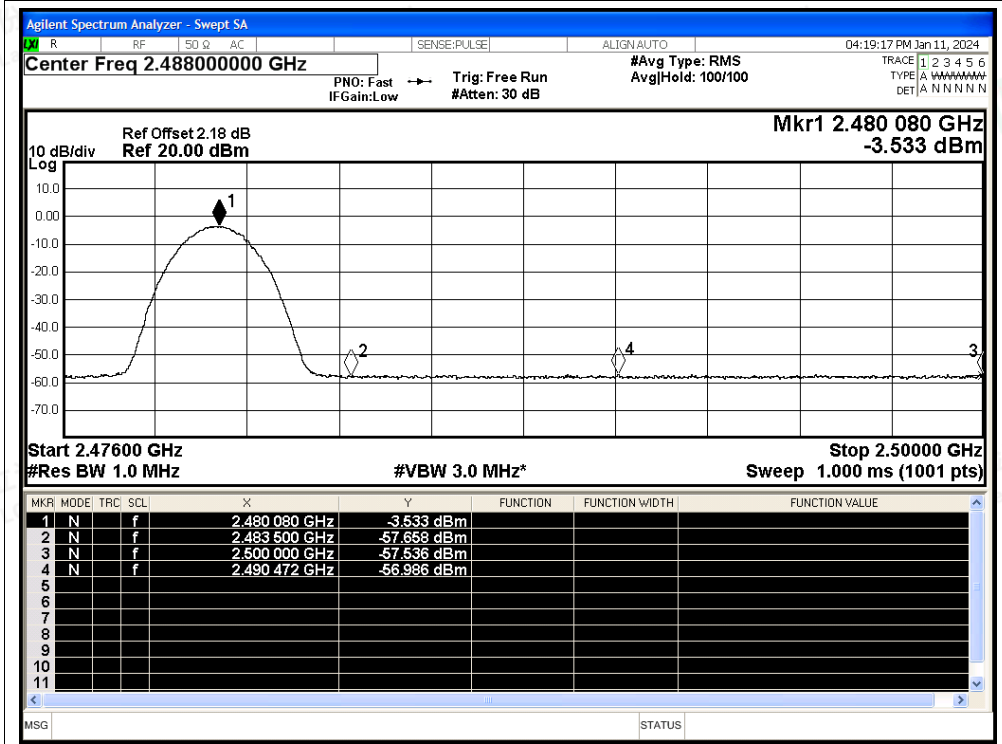




Restrict Band NVNT 2-DH5 2480MHz Ant No-Hopping Peak

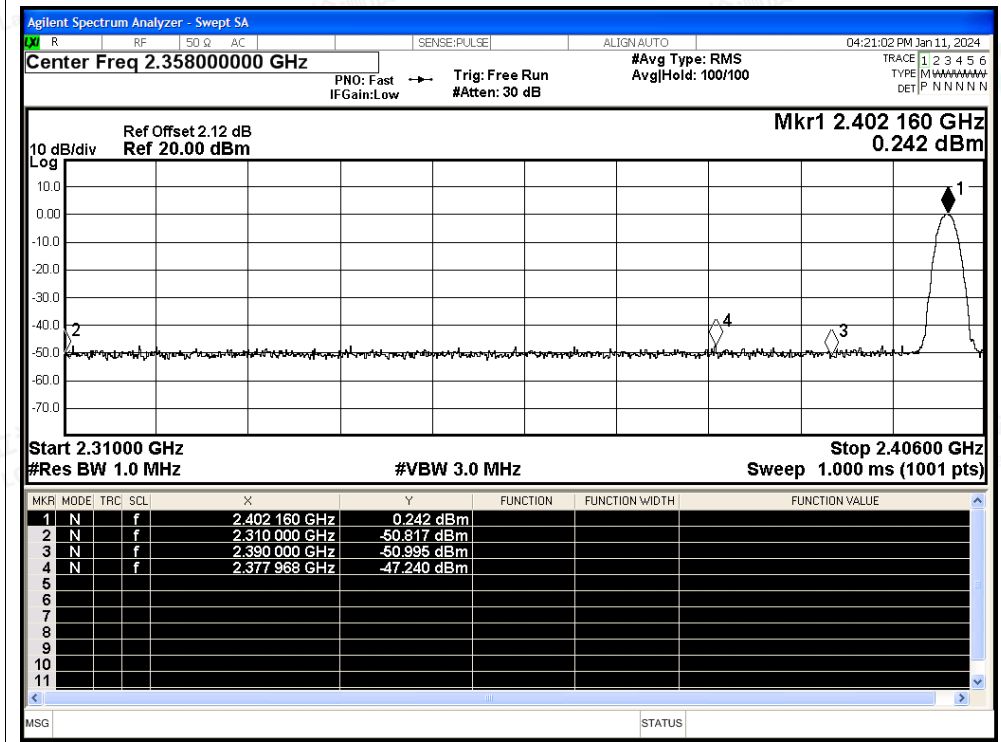


Restrict Band NVNT 2-DH5 2480MHz Ant No-Hopping Average

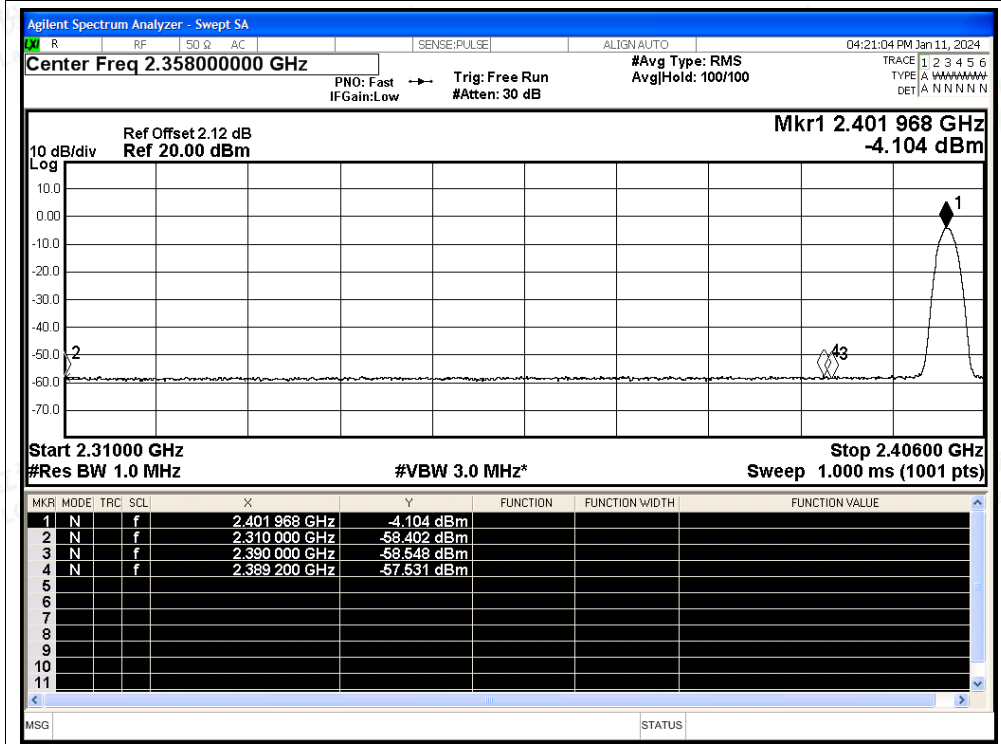




Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Peak

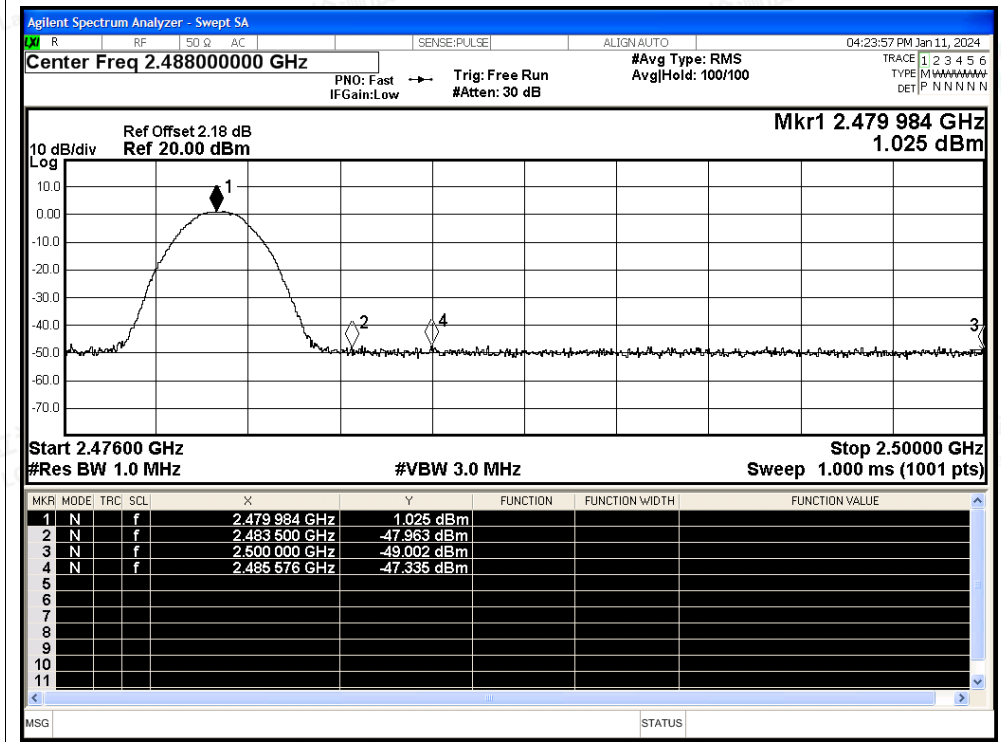


Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Average





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



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

