
Appendix RF test data for BT

A.1 -20dB Bandwidth

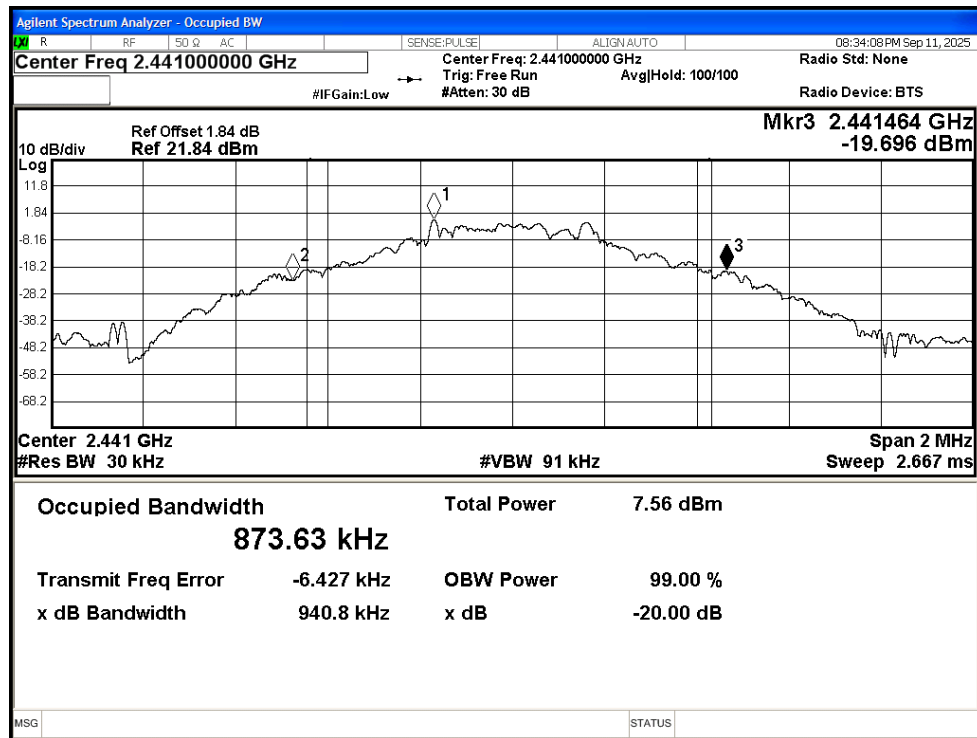
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.959	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.941	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.935	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.288	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.286	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.317	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.297	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.28	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.295	N/A	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



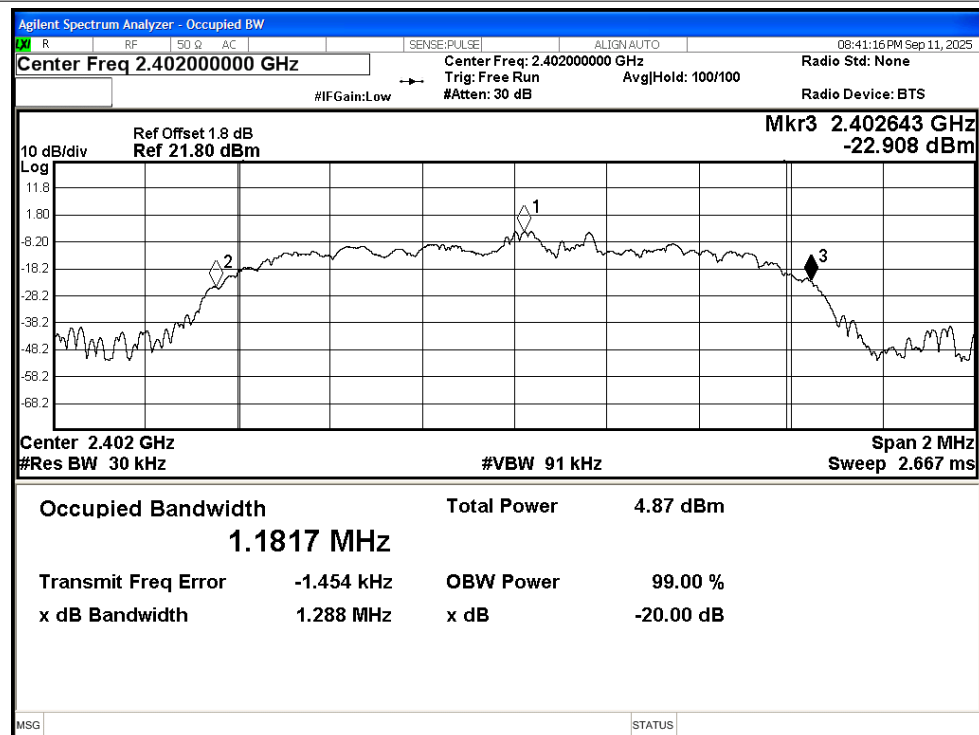
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



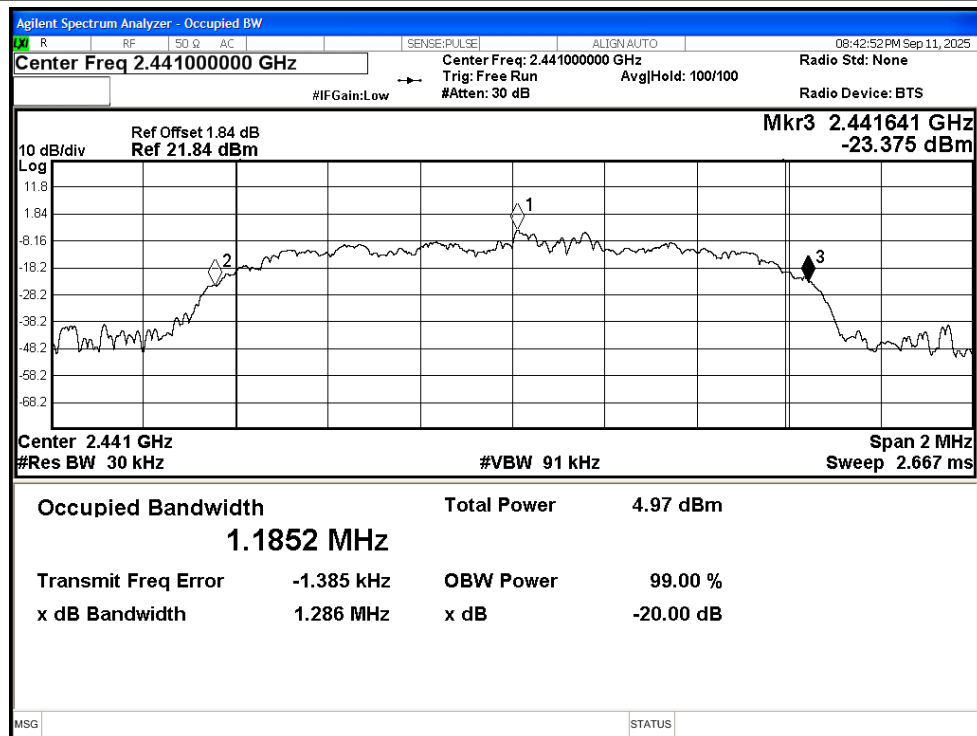
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



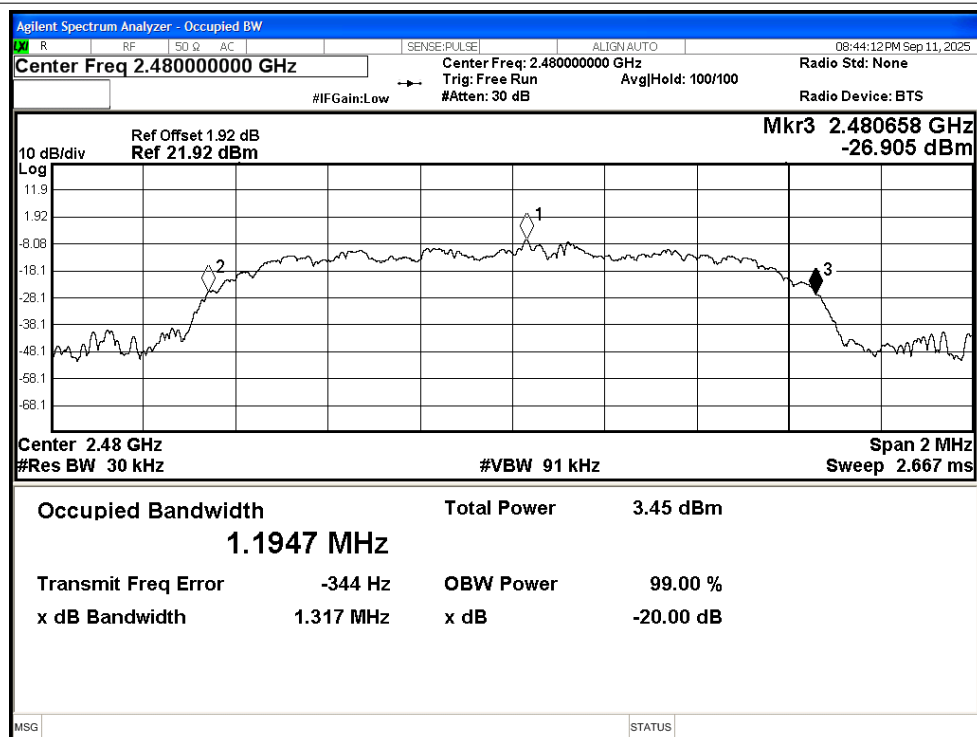
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



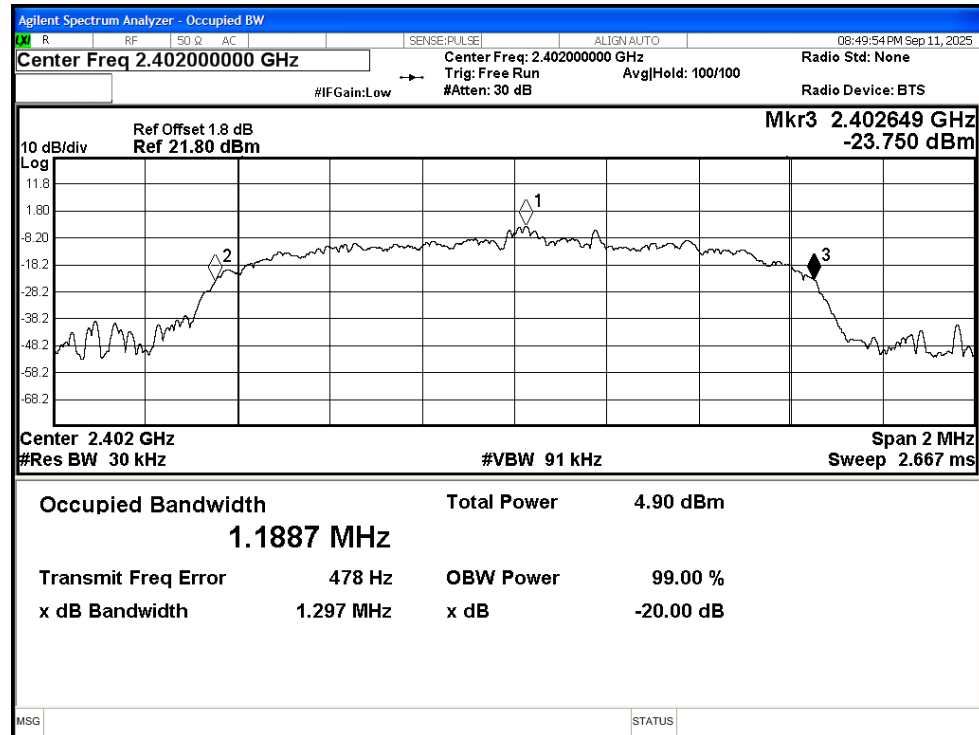
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



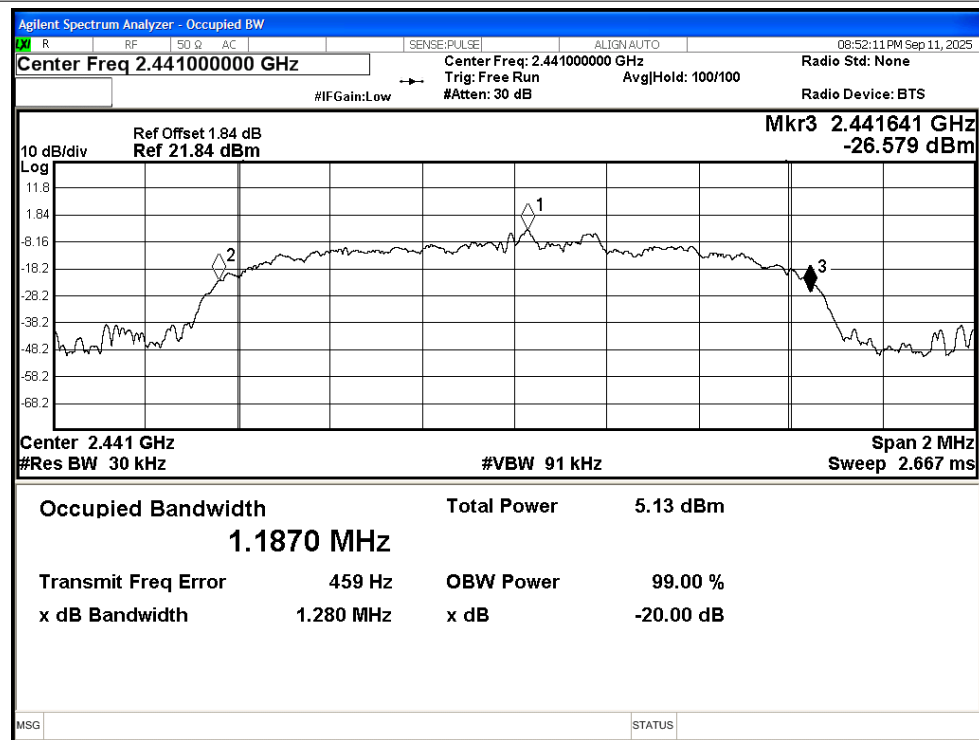
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

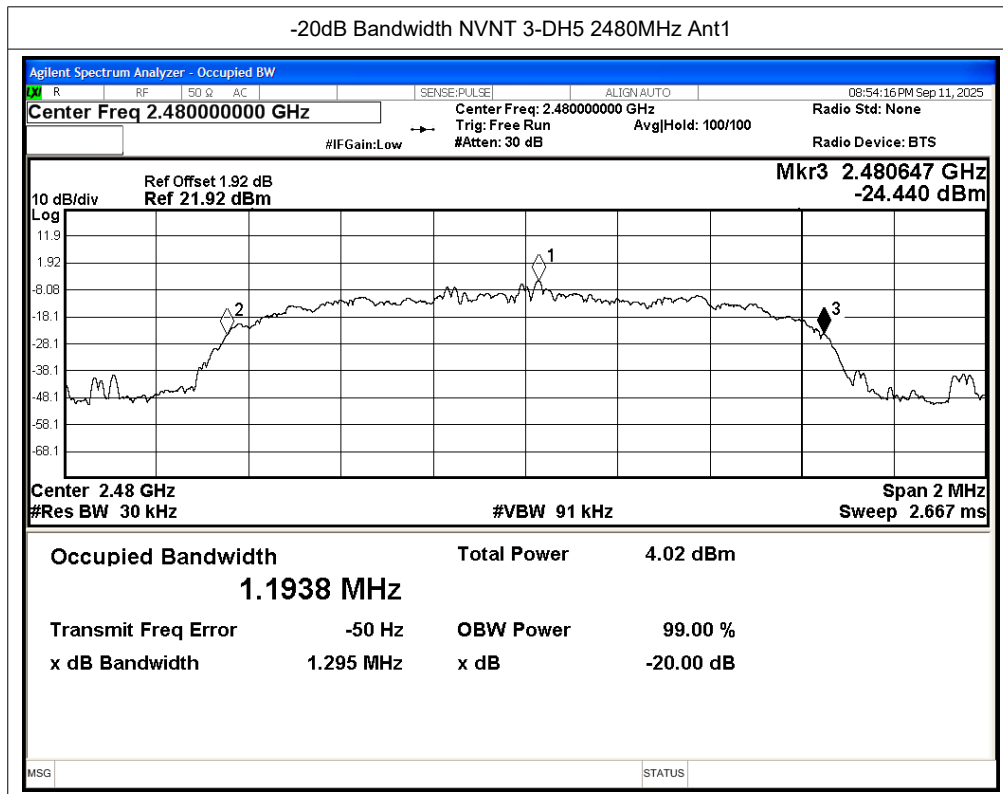


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



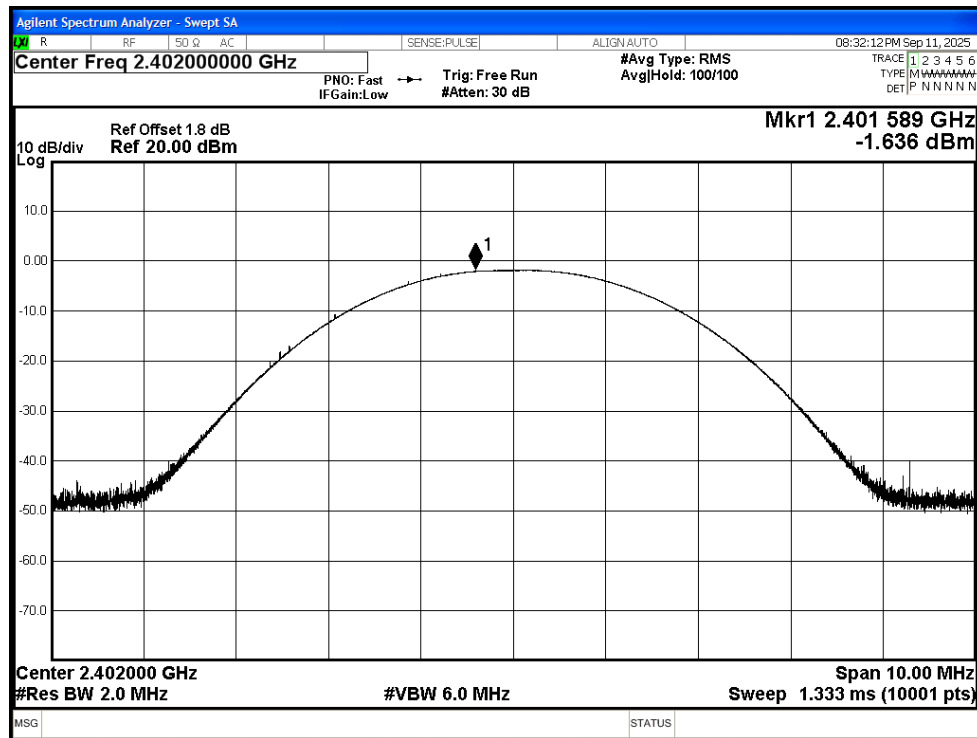


A.2 Maximum Peak Conducted Output Power

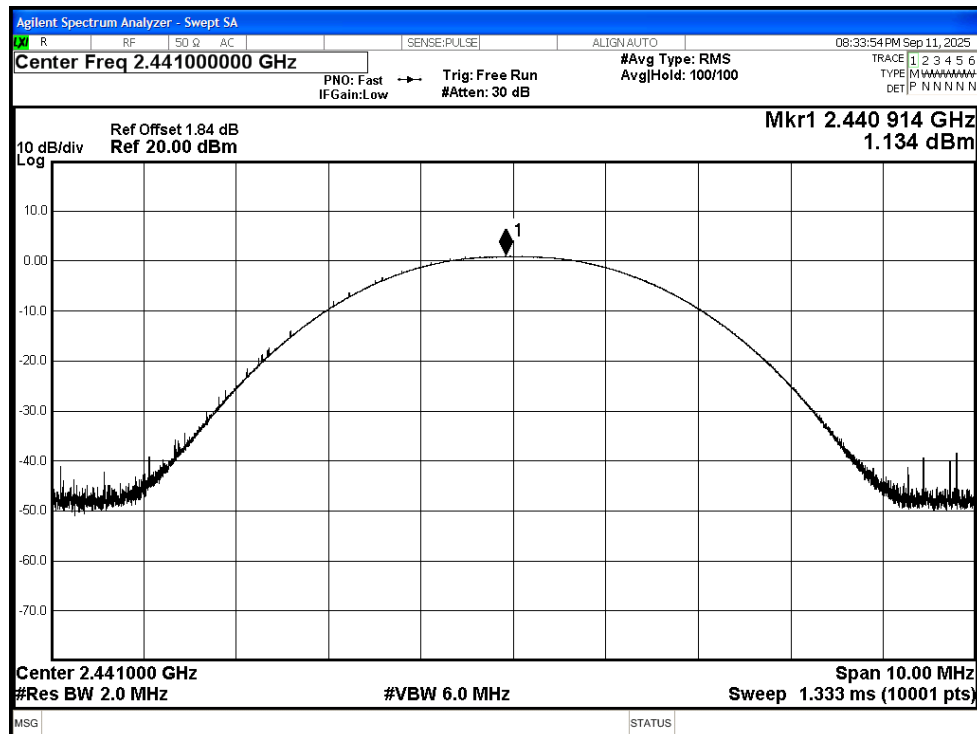
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-1.64	21	Pass
NVNT	1-DH5	2441	Ant1	1.13	21	Pass
NVNT	1-DH5	2480	Ant1	0.17	21	Pass
NVNT	2-DH5	2402	Ant1	0.39	21	Pass
NVNT	2-DH5	2441	Ant1	0.62	21	Pass
NVNT	2-DH5	2480	Ant1	-0.38	21	Pass
NVNT	3-DH5	2402	Ant1	0.78	21	Pass
NVNT	3-DH5	2441	Ant1	1.06	21	Pass
NVNT	3-DH5	2480	Ant1	-0.02	21	Pass

Test Graphs

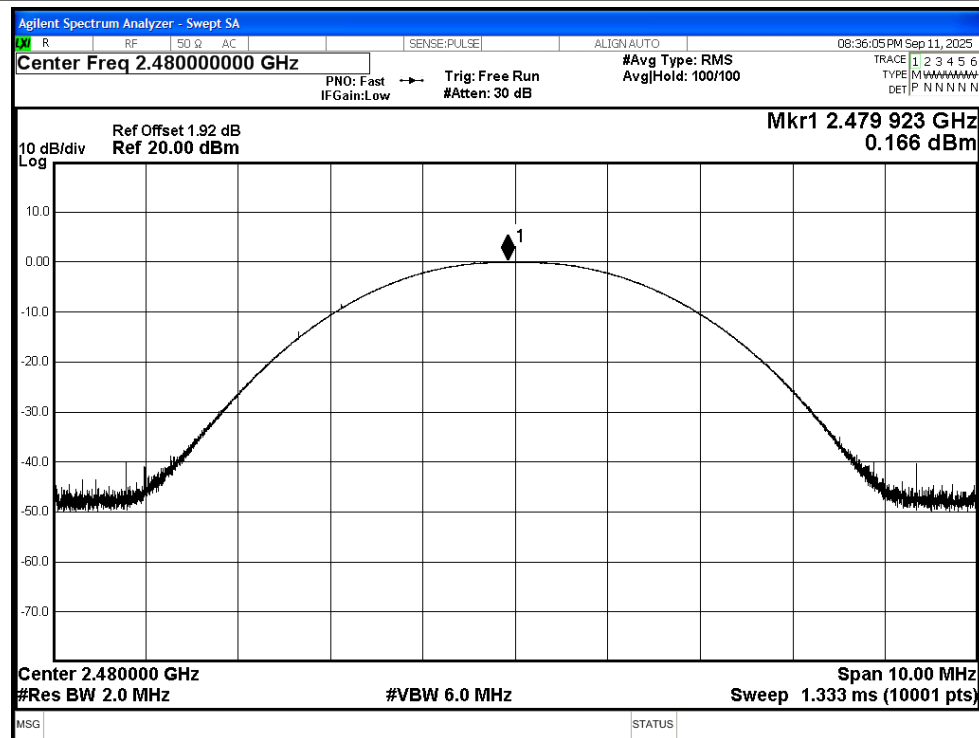
Power NVNT 1-DH5 2402MHz Ant1



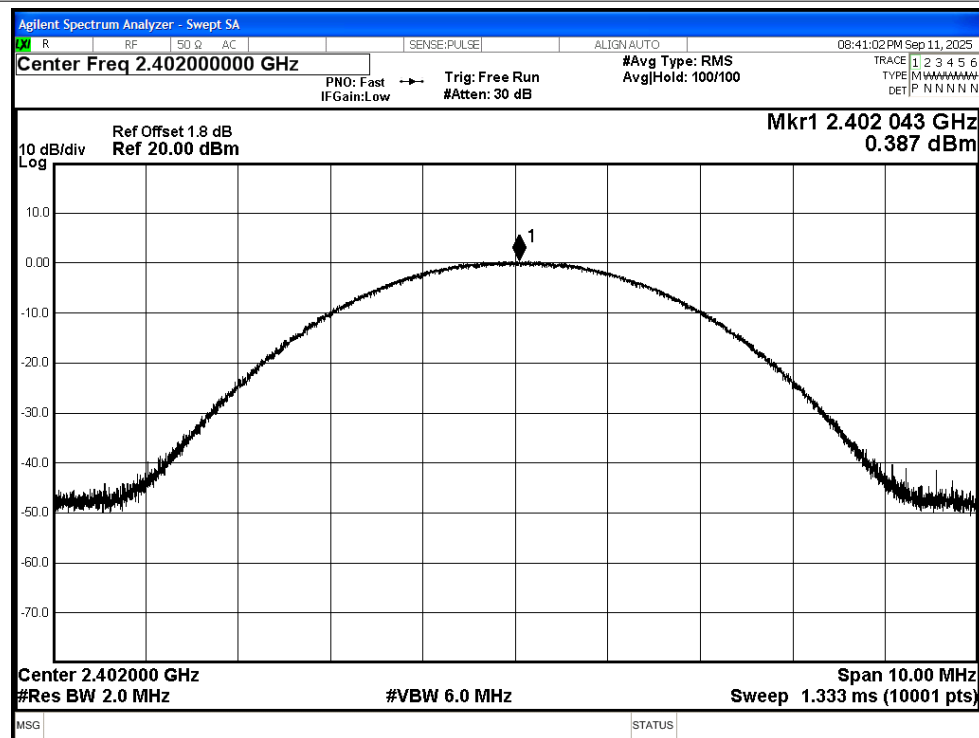
Power NVNT 1-DH5 2441MHz Ant1



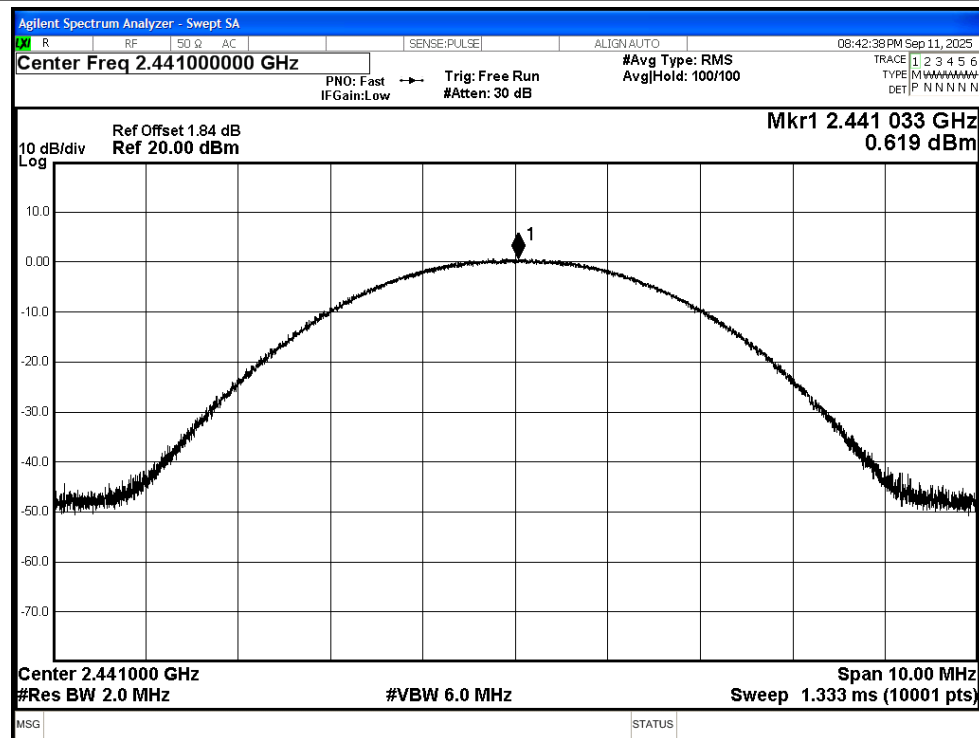
Power NVNT 1-DH5 2480MHz Ant1



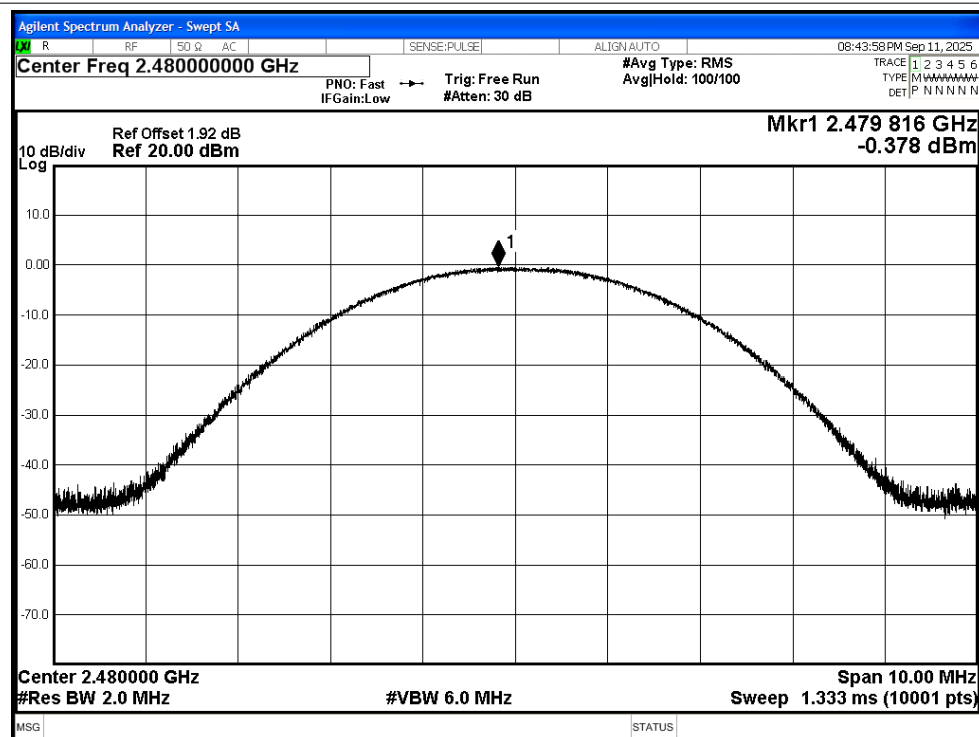
Power NVNT 2-DH5 2402MHz Ant1



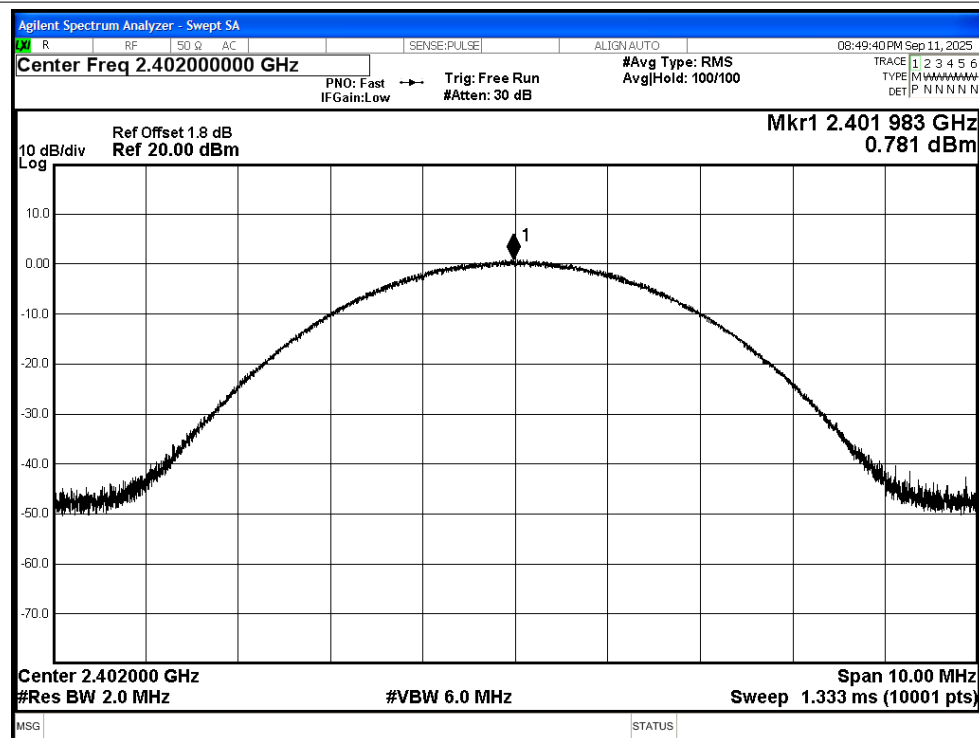
Power NVNT 2-DH5 2441MHz Ant1



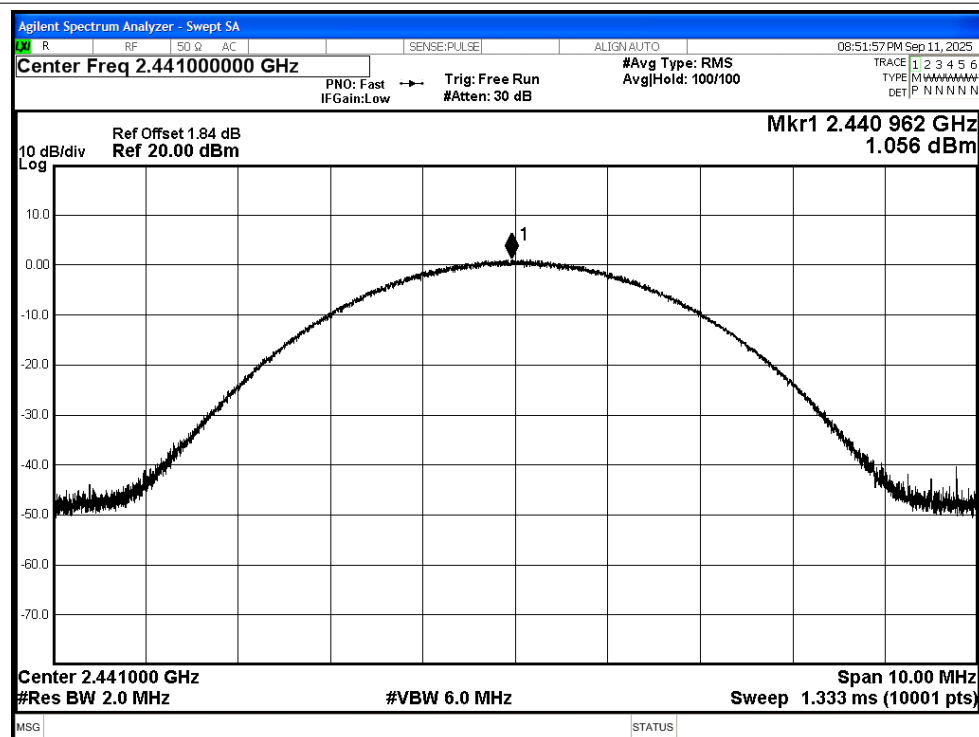
Power NVNT 2-DH5 2480MHz Ant1

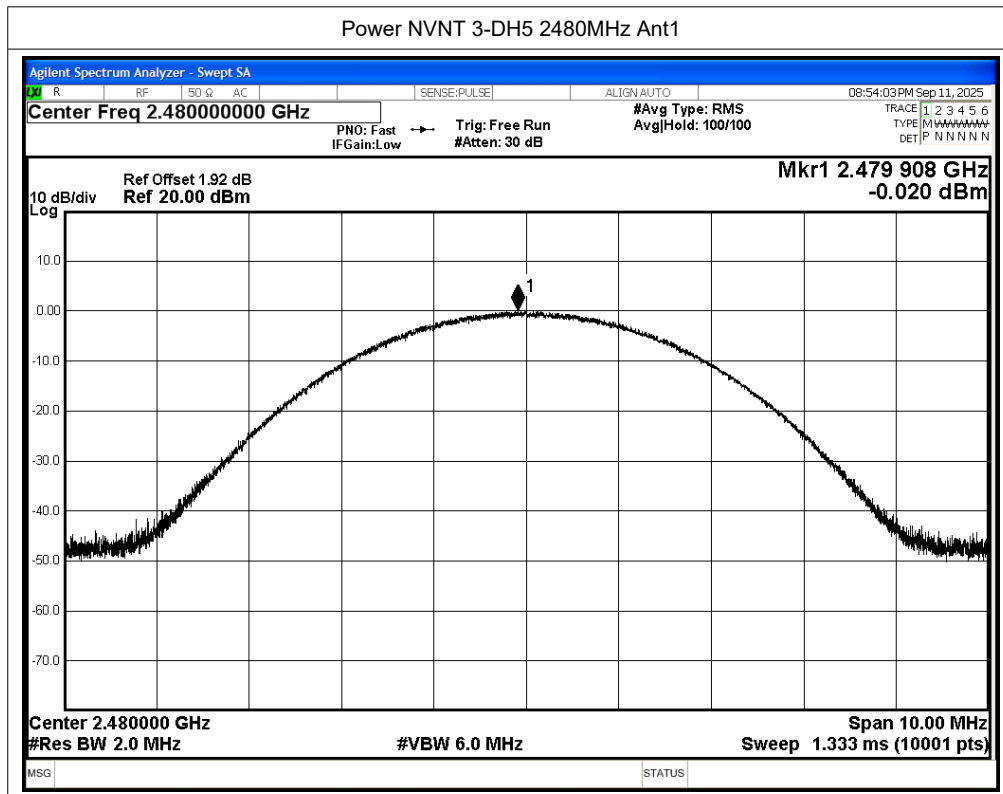


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

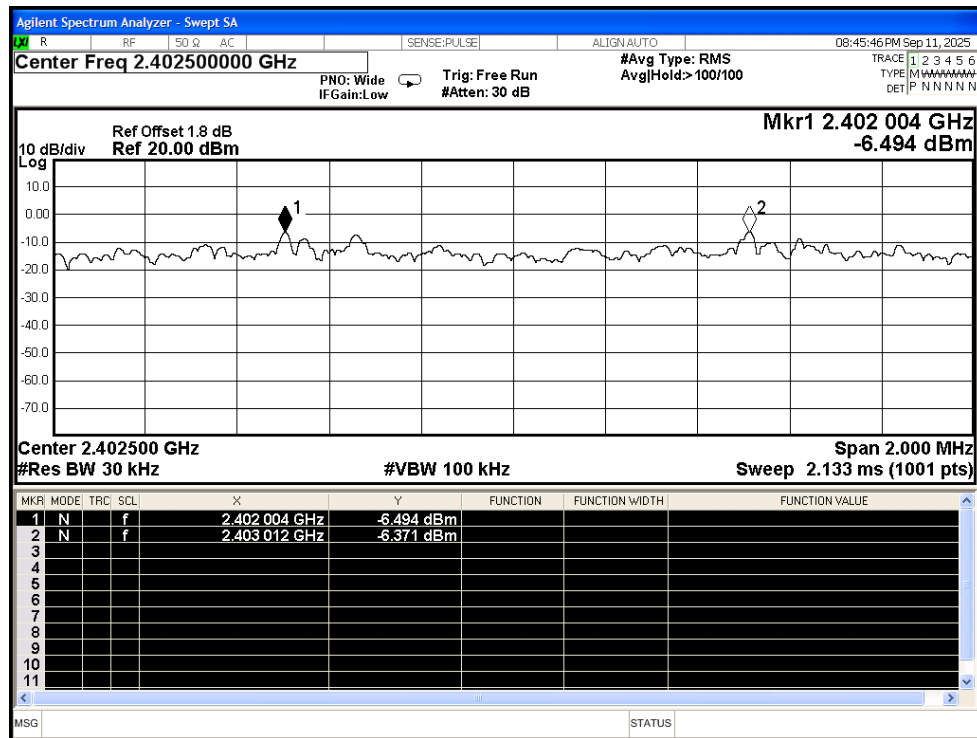
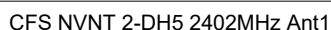


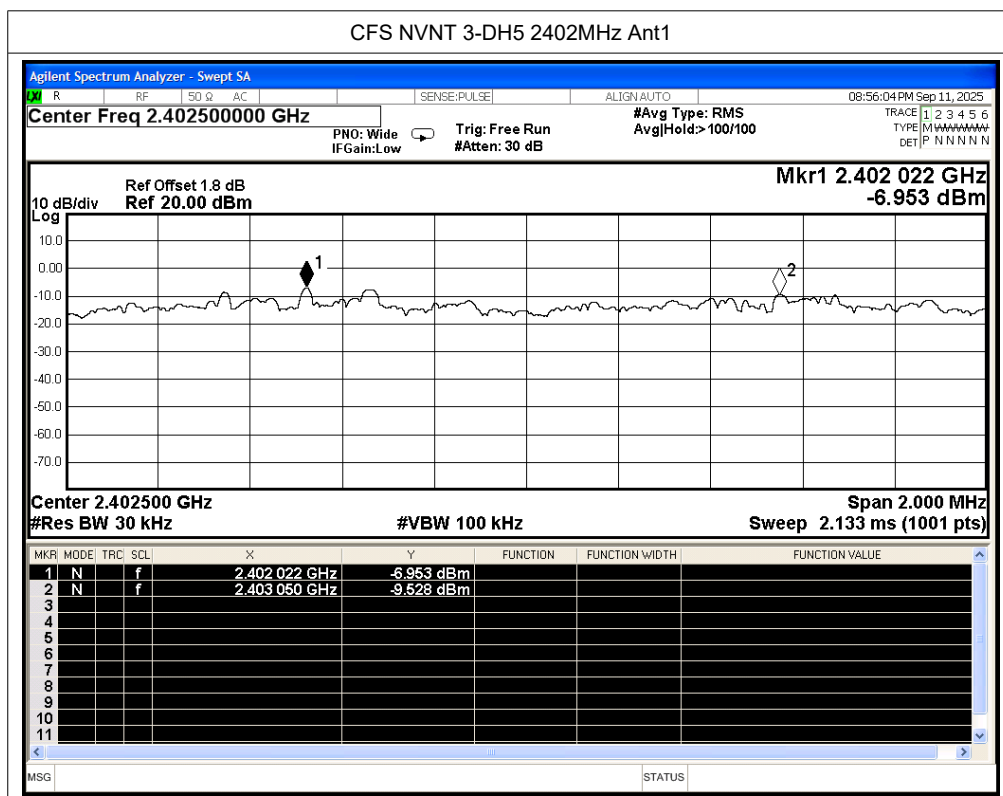


A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.972	2402.99	1.018	0.639	Pass
NVNT	2-DH5	Ant1	2402.004	2403.012	1.008	0.859	Pass
NVNT	3-DH5	Ant1	2402.022	2403.05	1.028	0.865	Pass

CFS NVNT 1-DH5 2402MHz Ant1



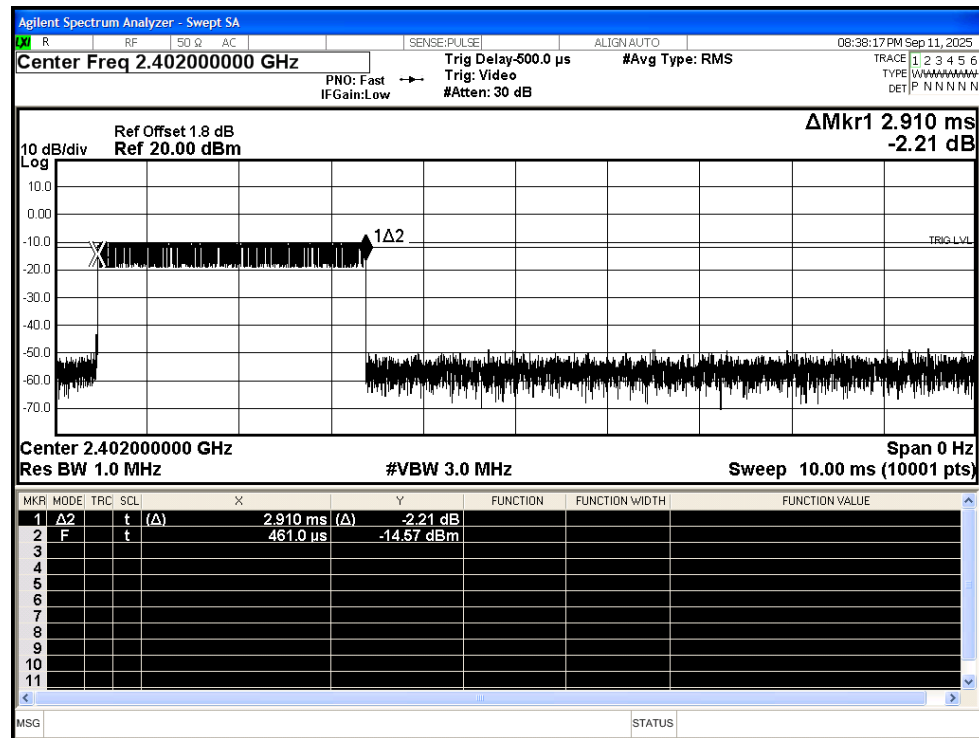


A.4 Dwell Time

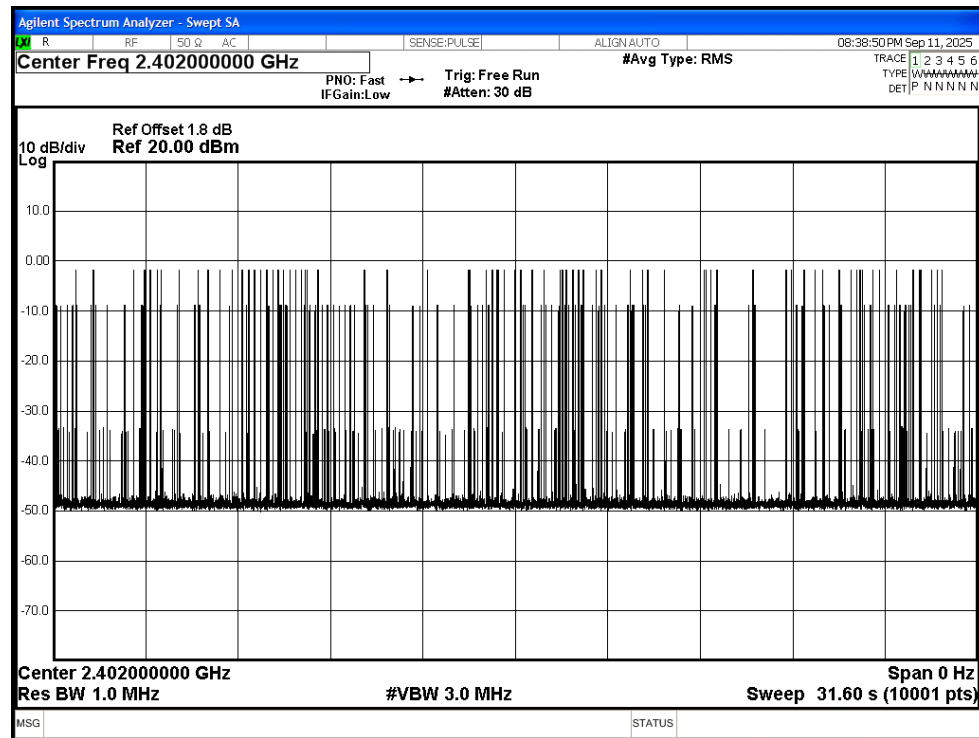
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.91	279.36	96	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	286.902	99	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	318.67	110	31600	400	Pass

Test Graphs

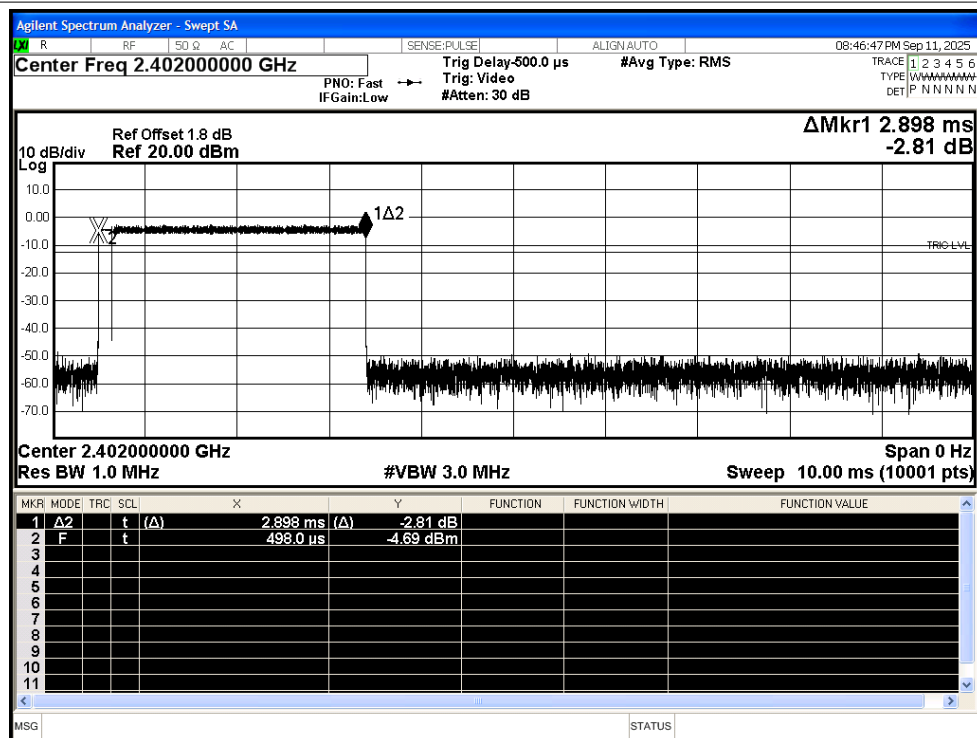
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



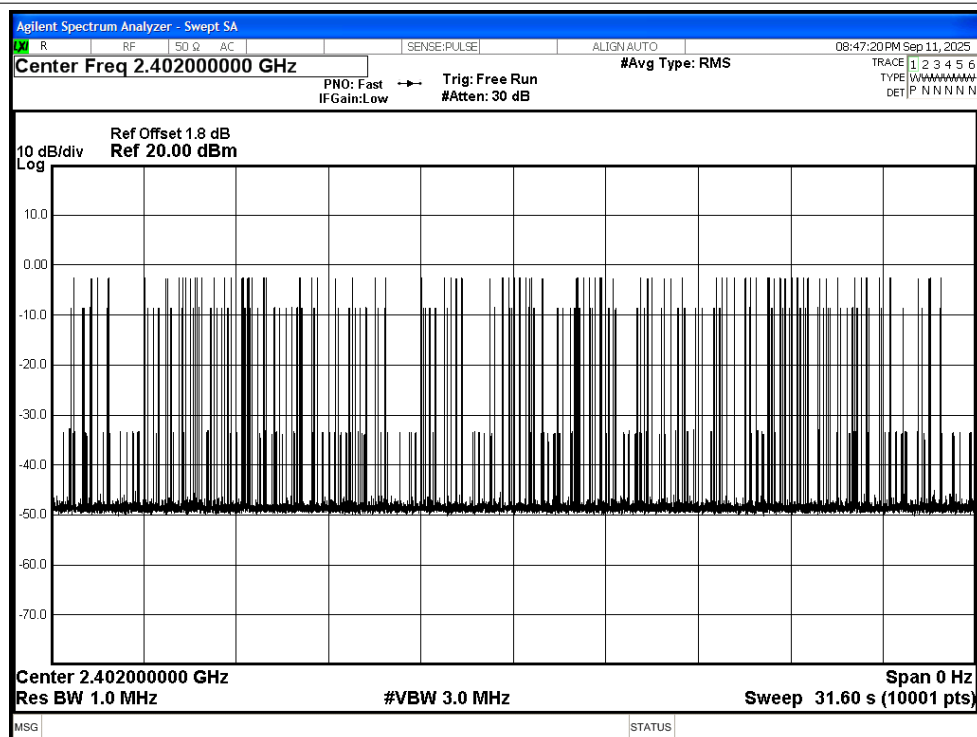
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



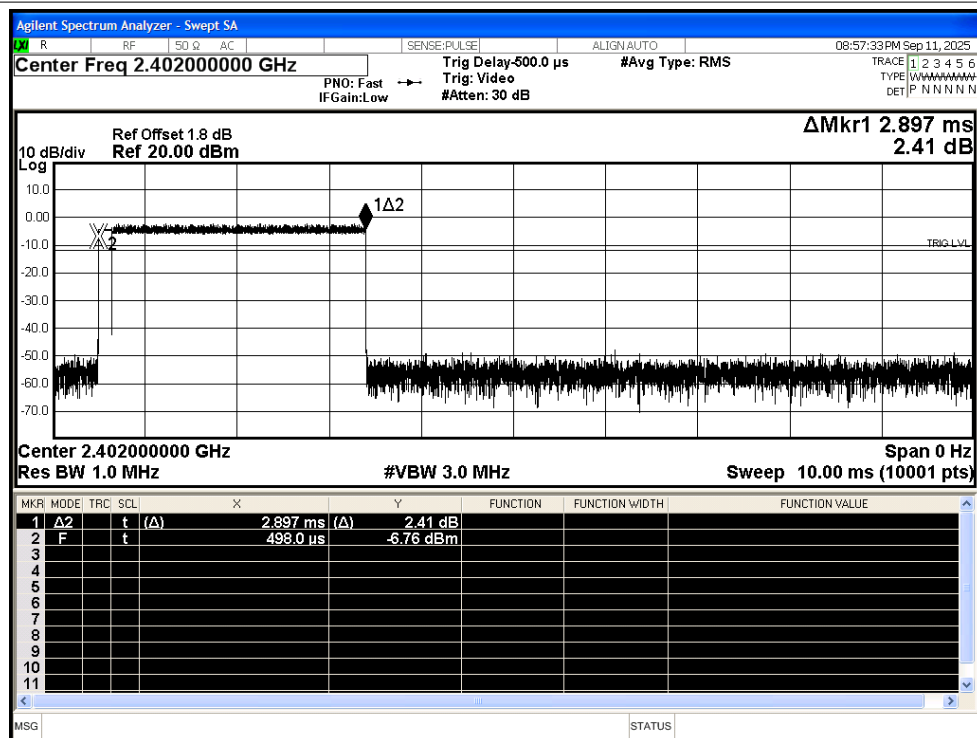
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



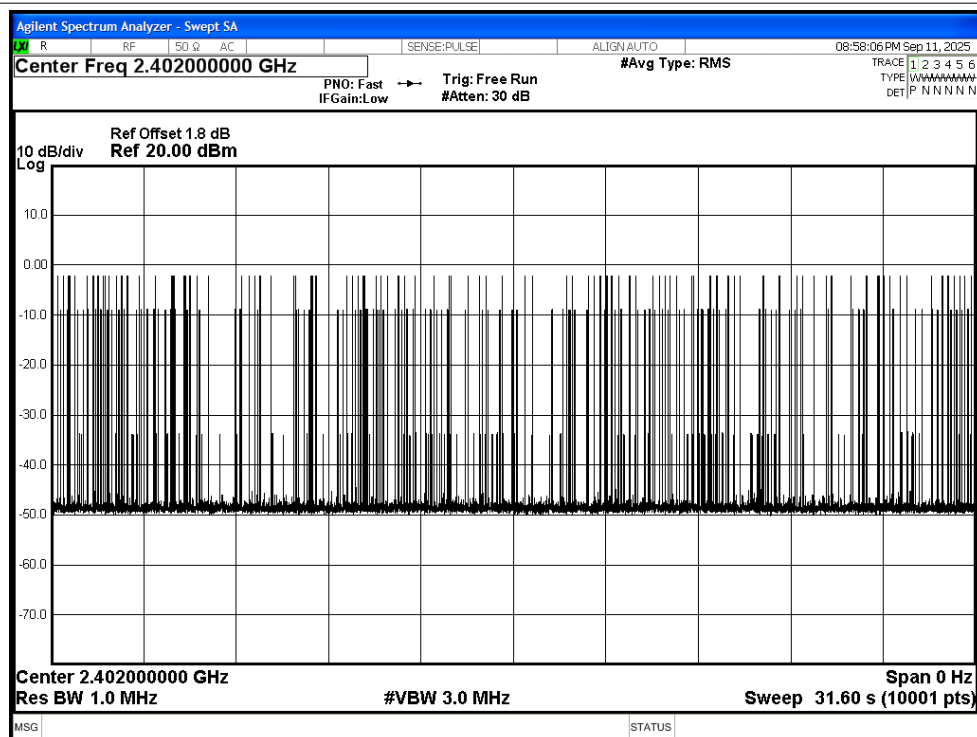
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



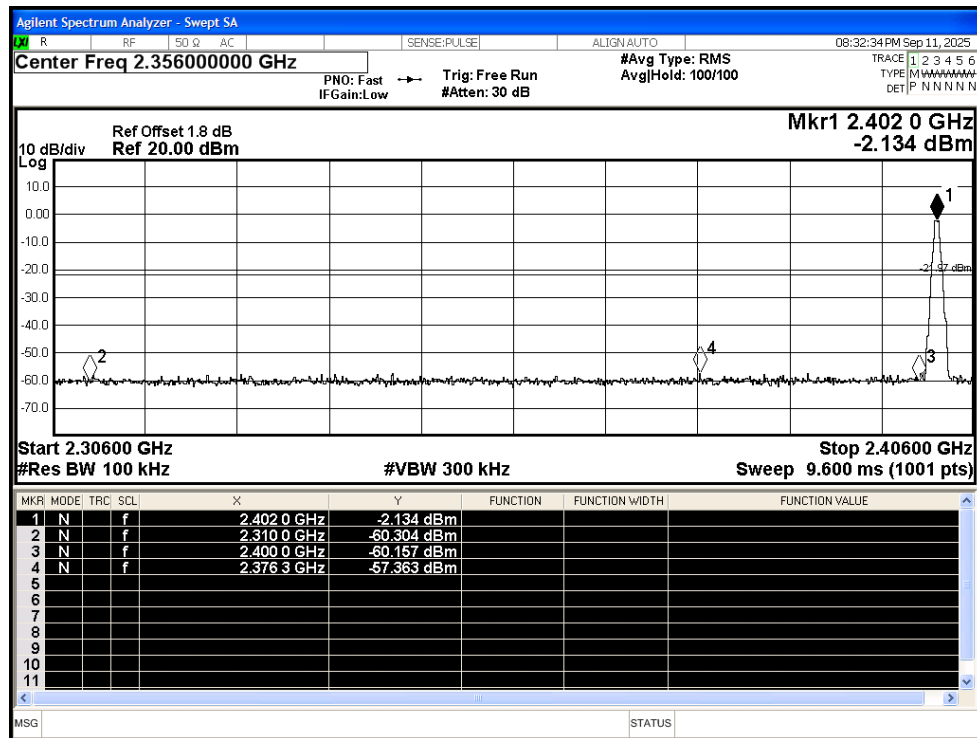
A.5 Number of Hopping Channel

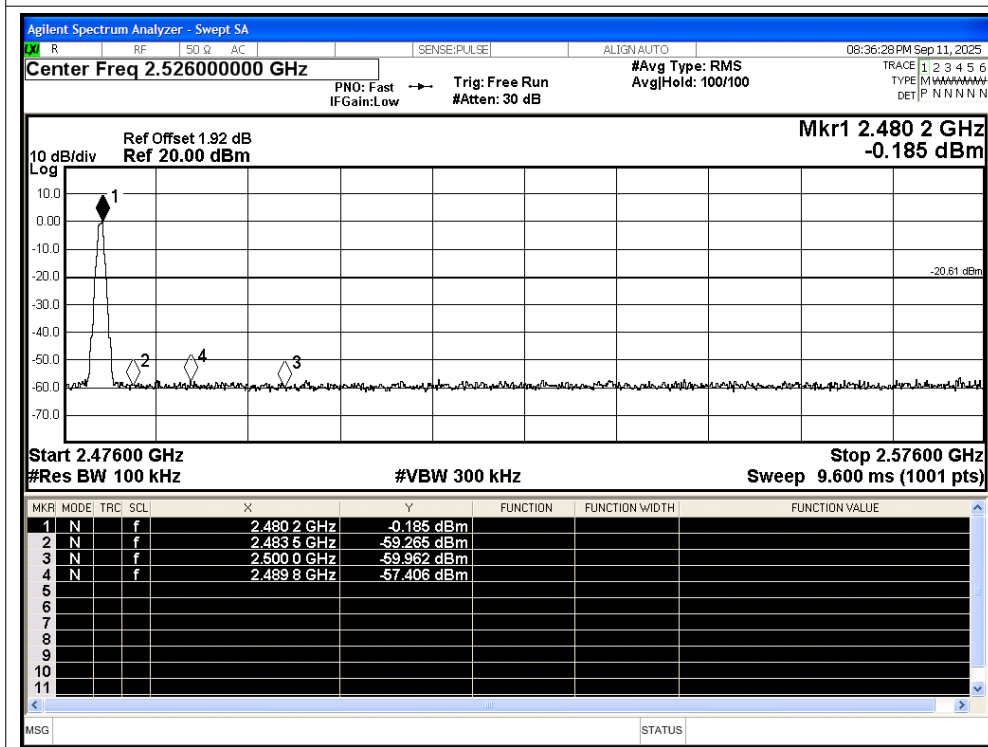
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

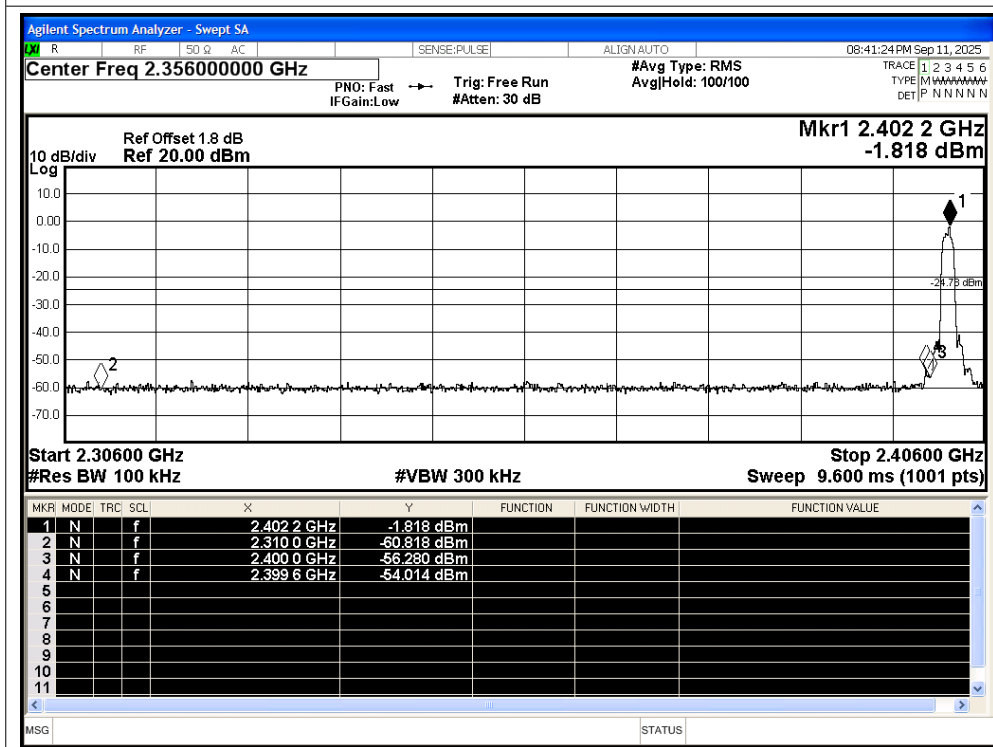
A.6 Band Edge

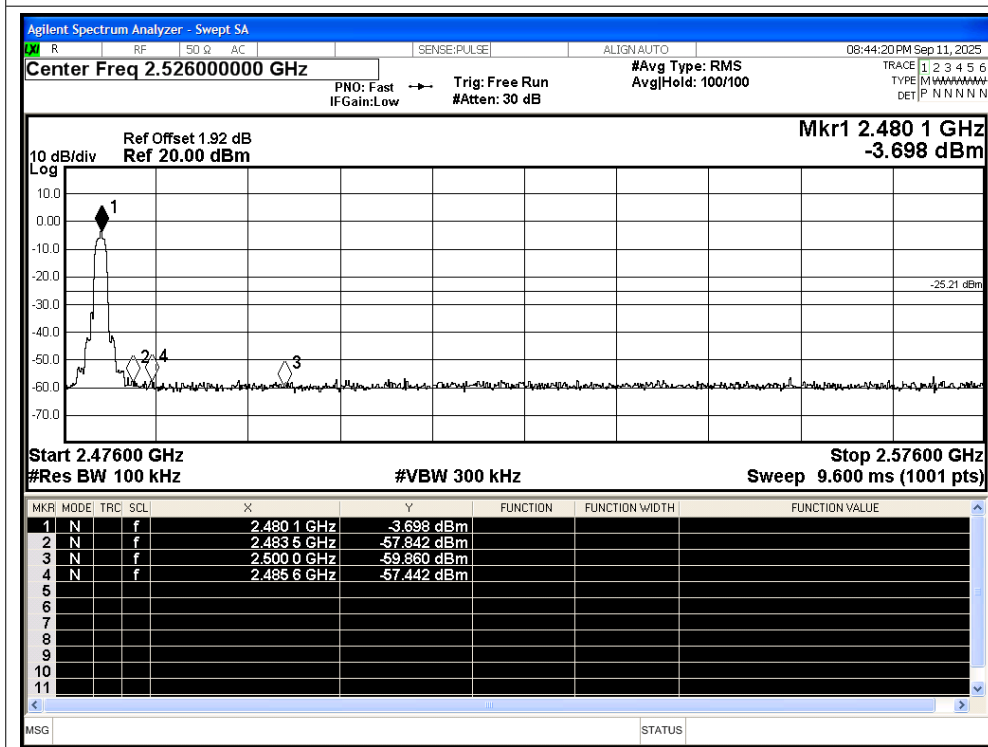
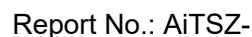
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.4	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.8	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-49.24	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.24	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.62	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.81	-20	Pass

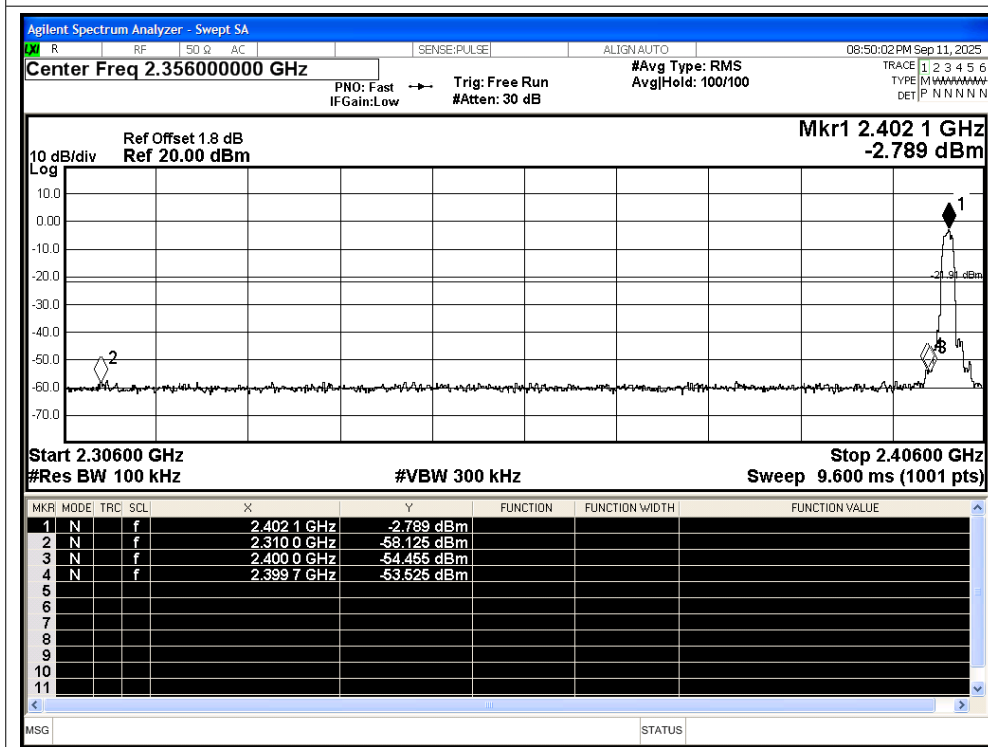
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref







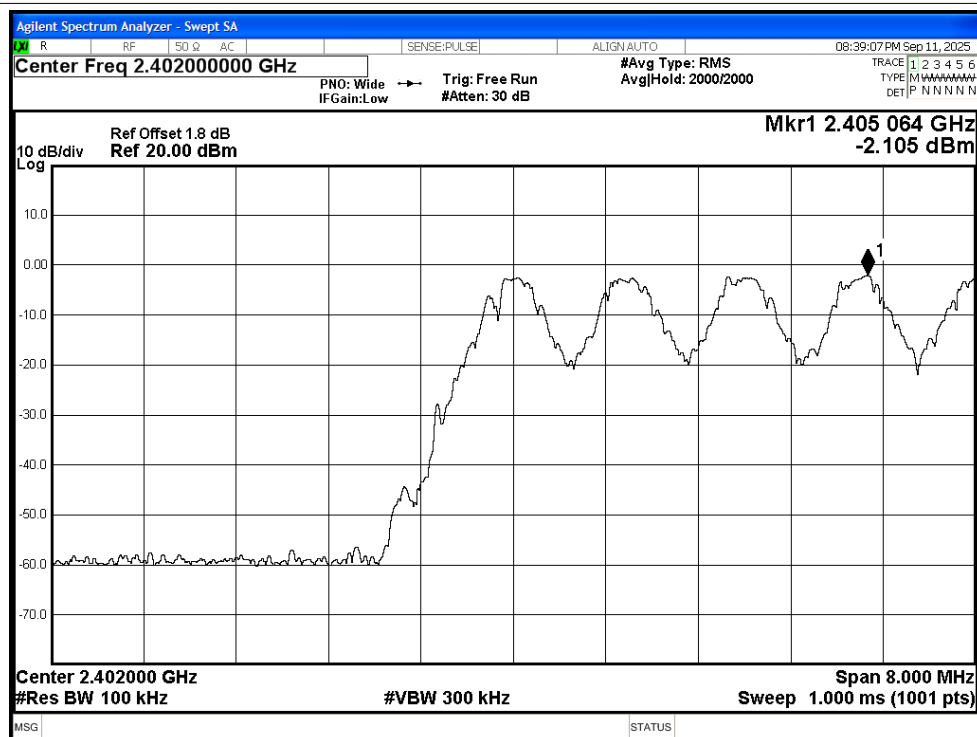




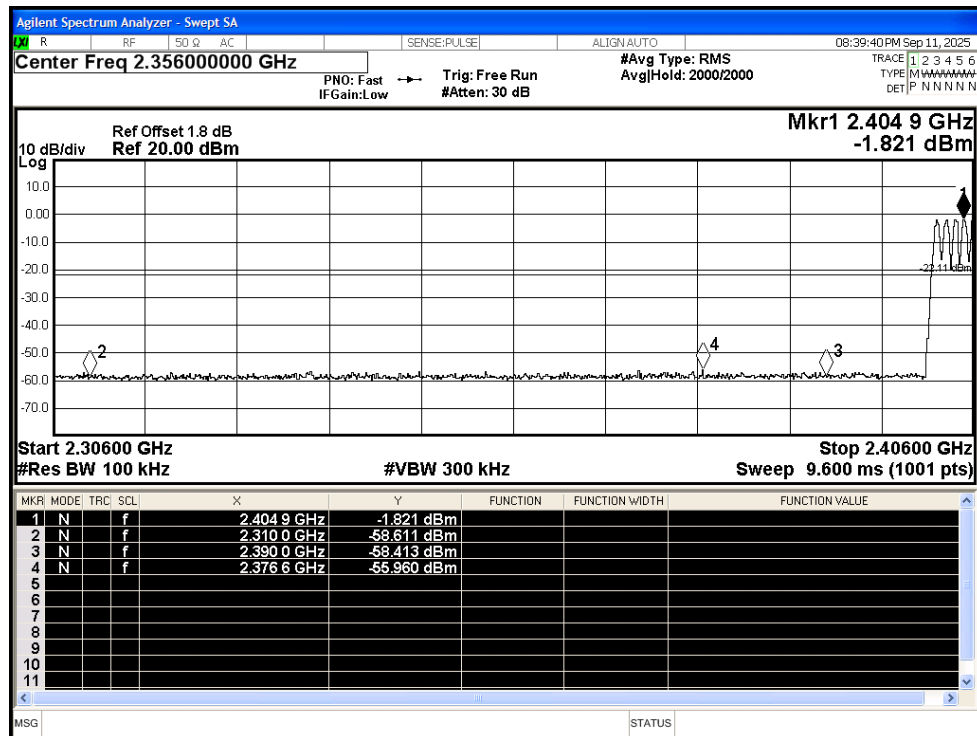
(Hopping)

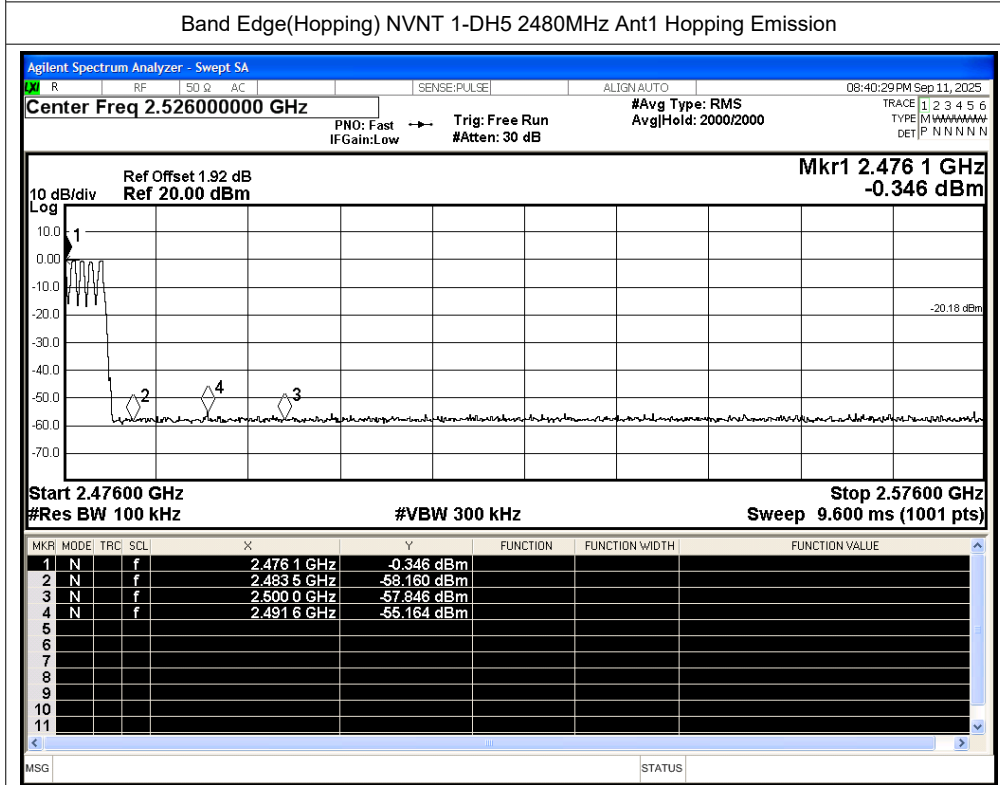
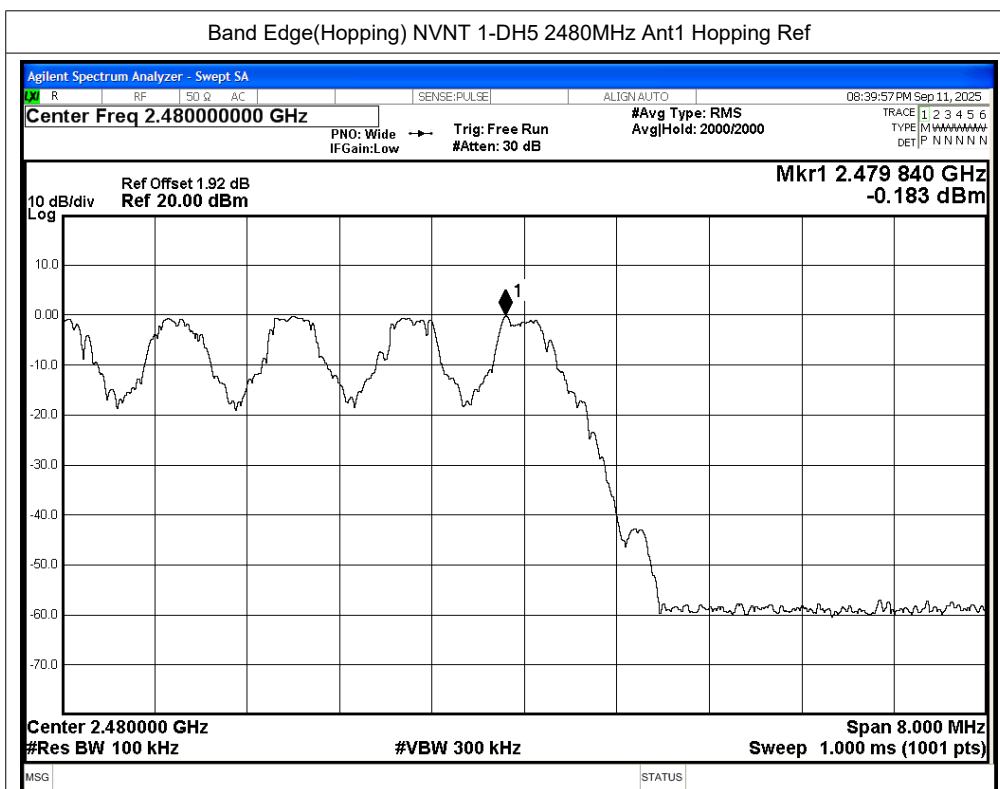
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.86	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.98	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.25	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.6	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.65	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53	-20	Pass

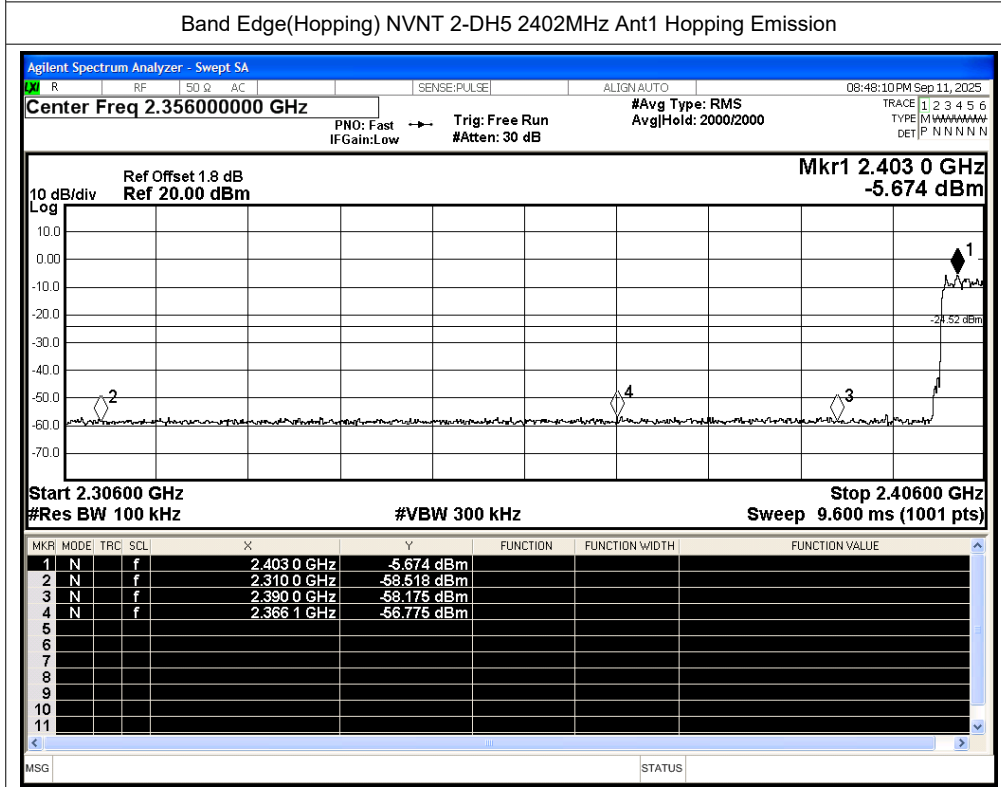
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

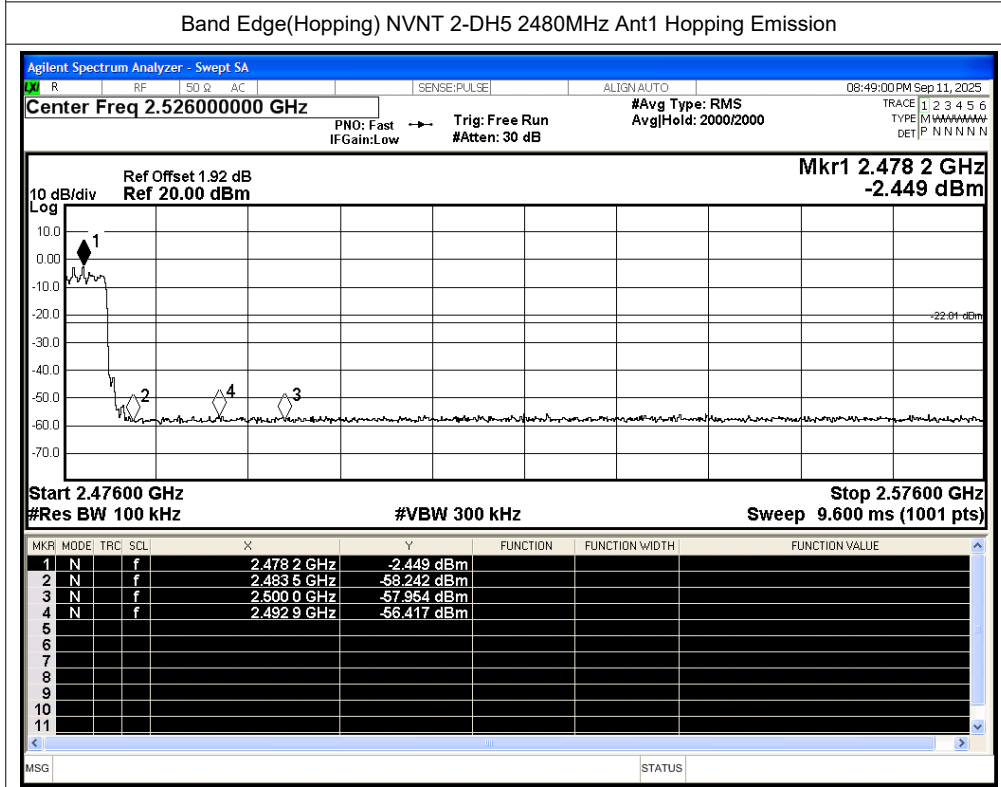


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

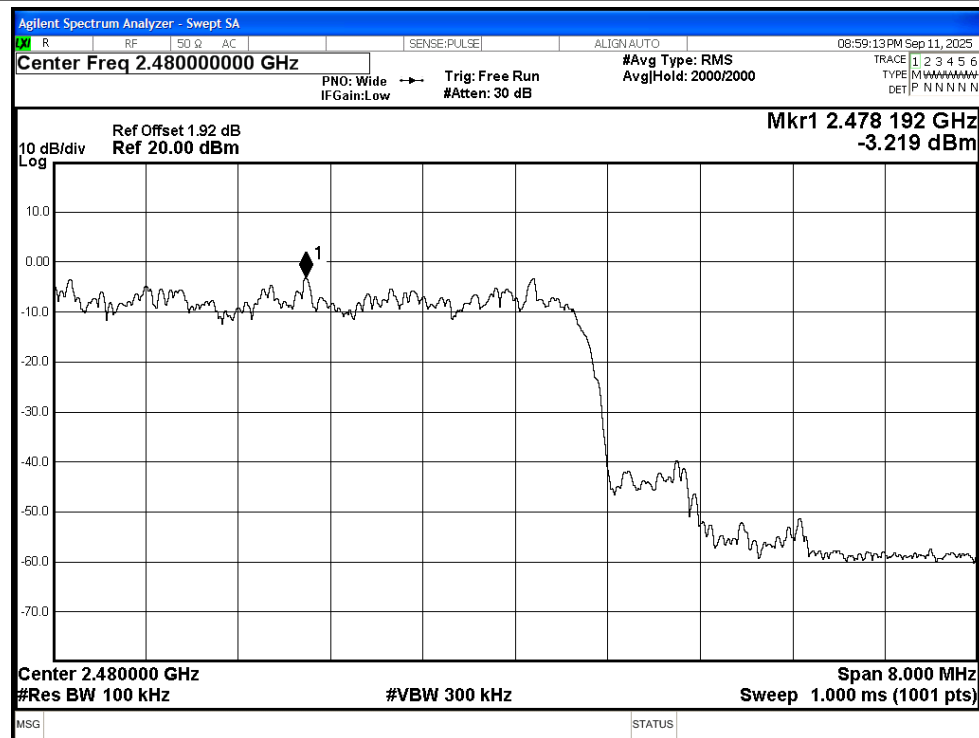




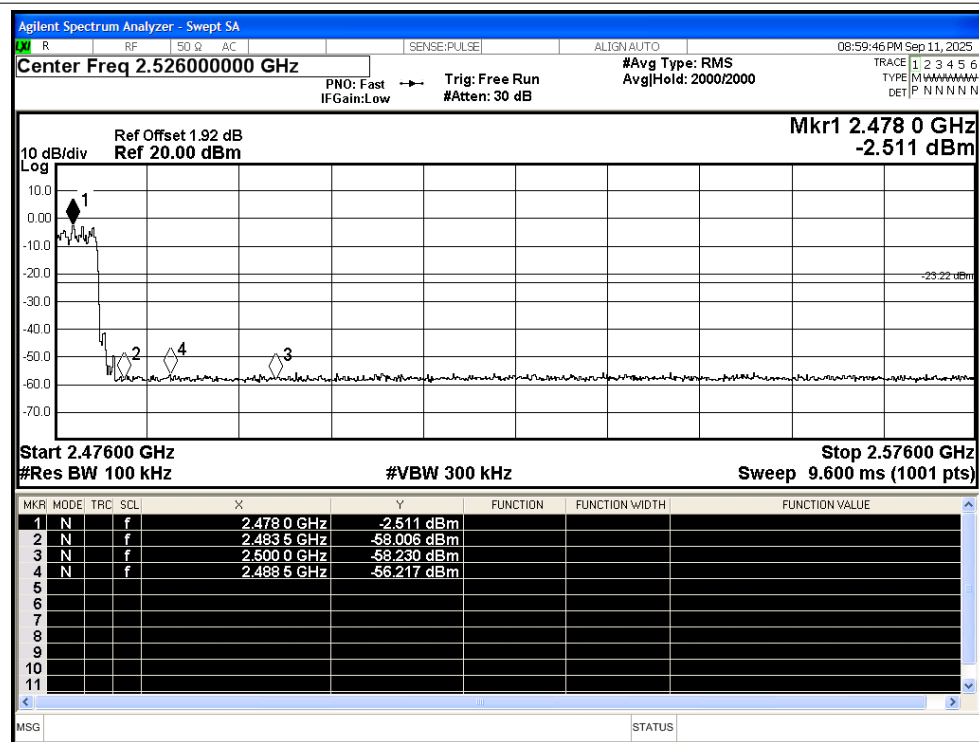




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref

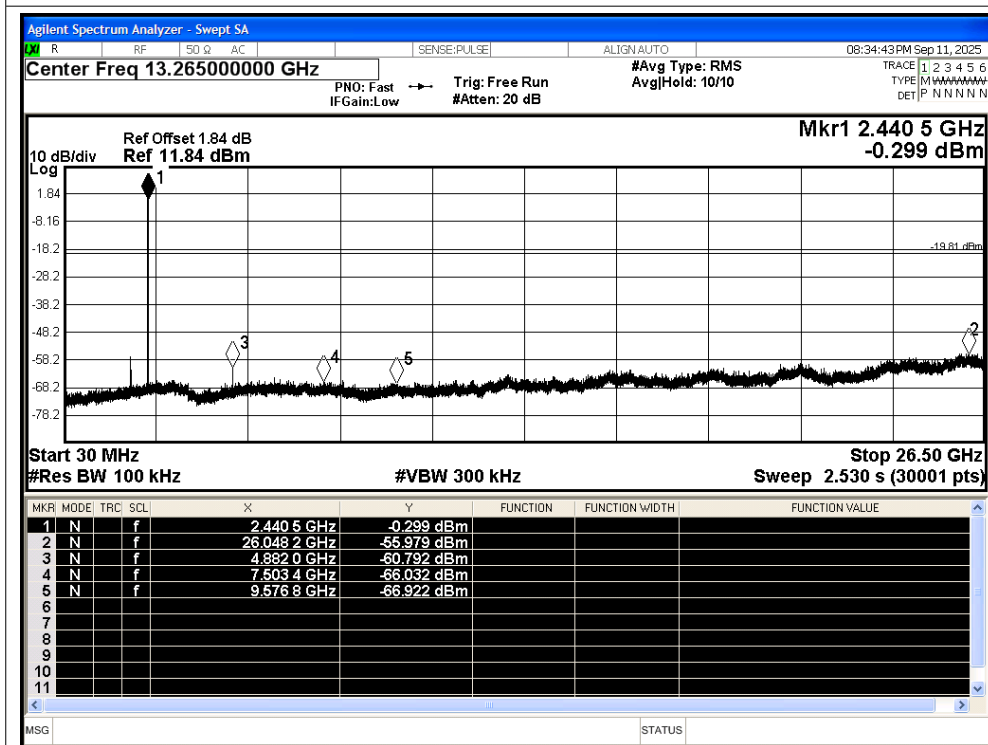
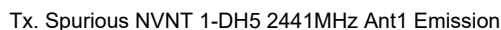


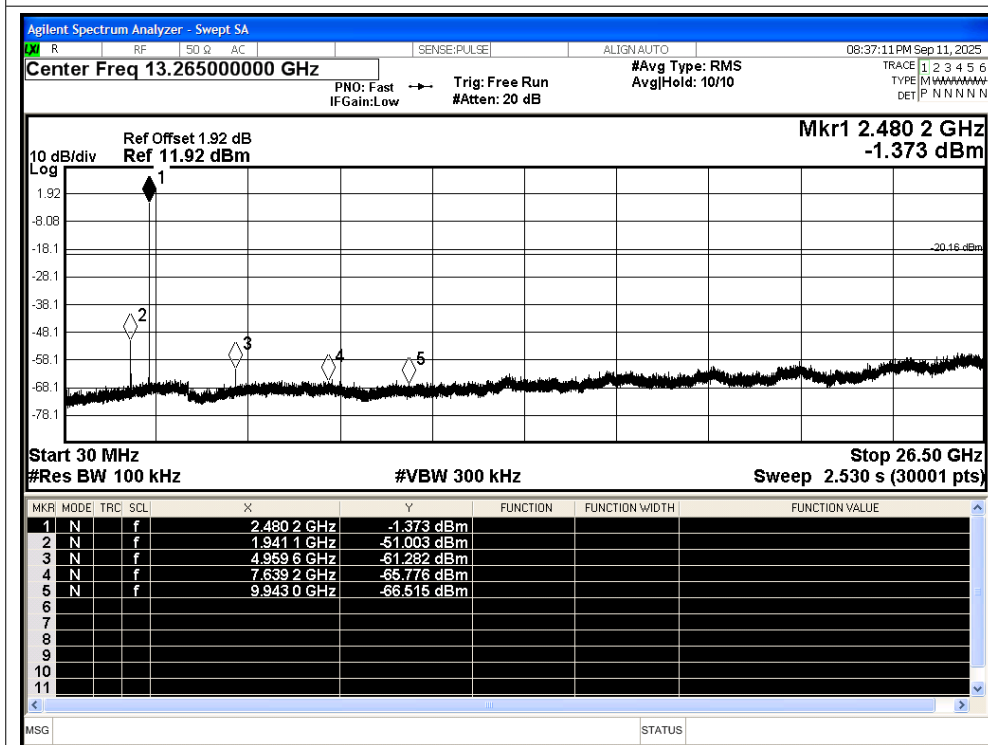
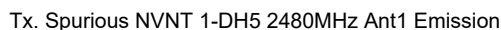
Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

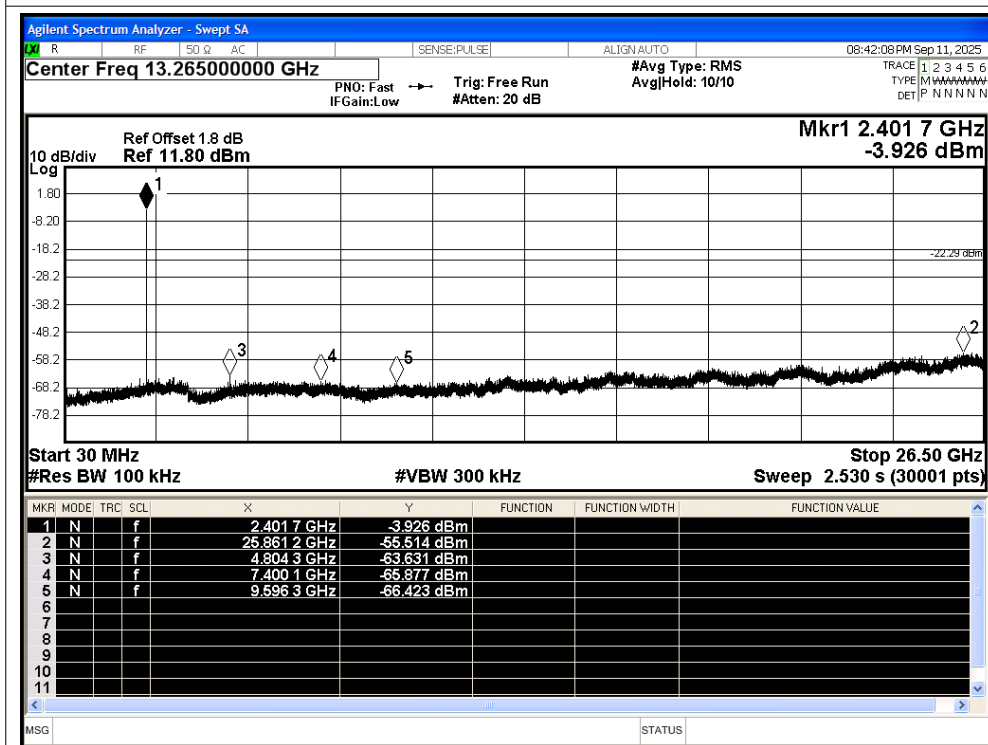
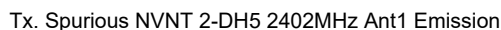


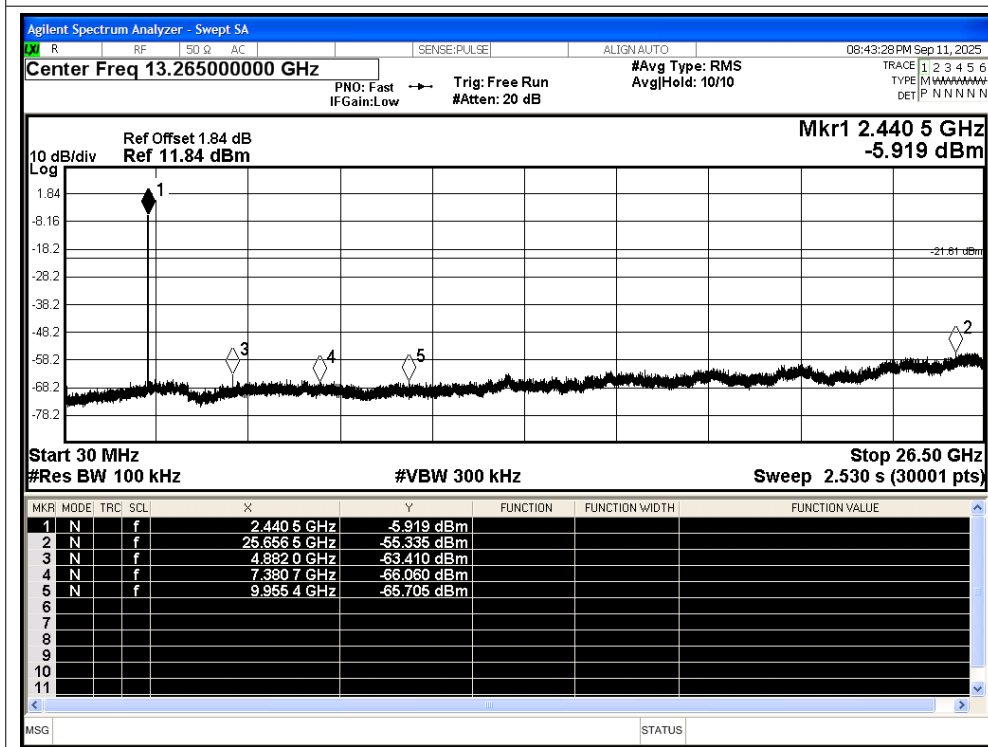
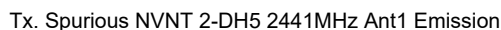
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-53.77	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.17	-20	Pass
NVNT	1-DH5	2480	Ant1	-50.84	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.22	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.73	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.91	-20	Pass
NVNT	3-DH5	2402	Ant1	-46.98	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.93	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.46	-20	Pass

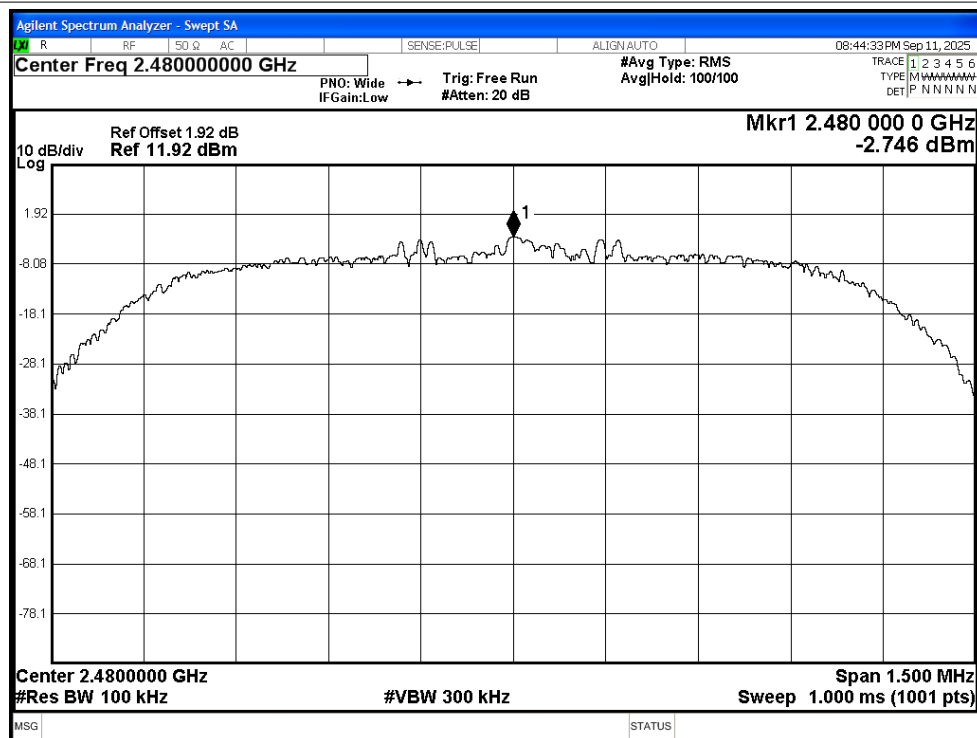




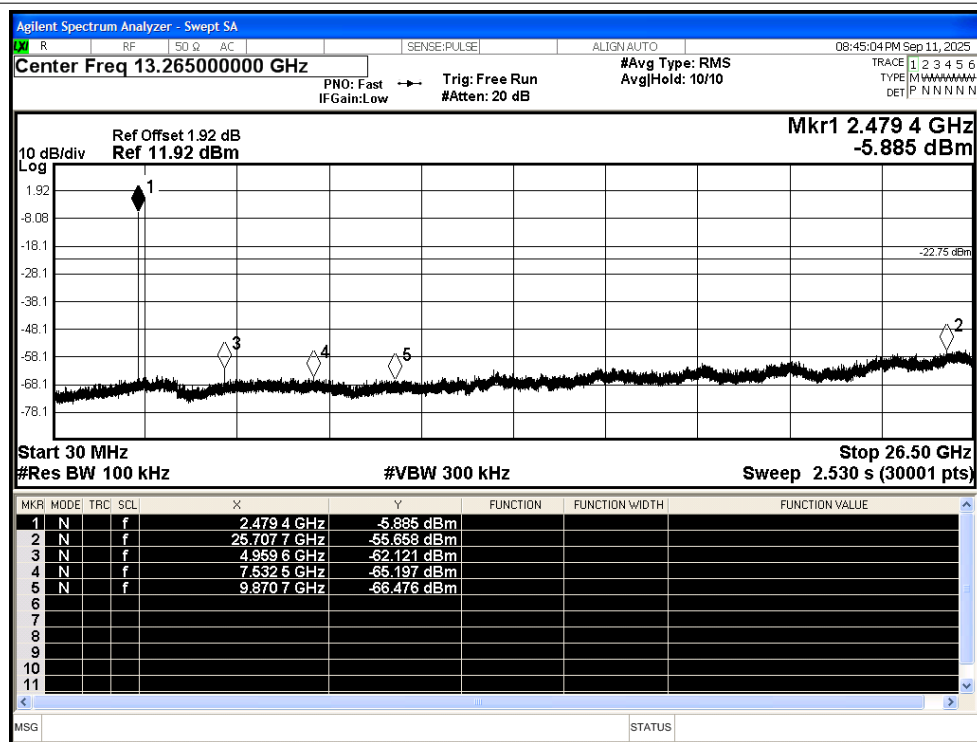


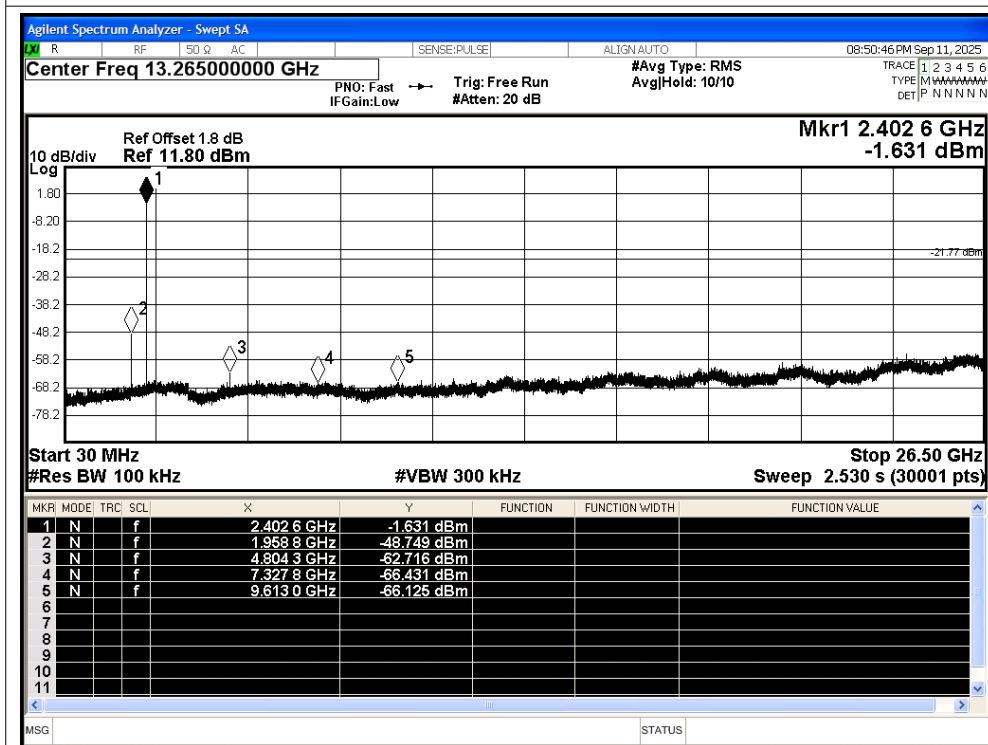
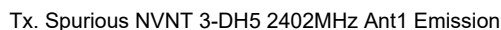


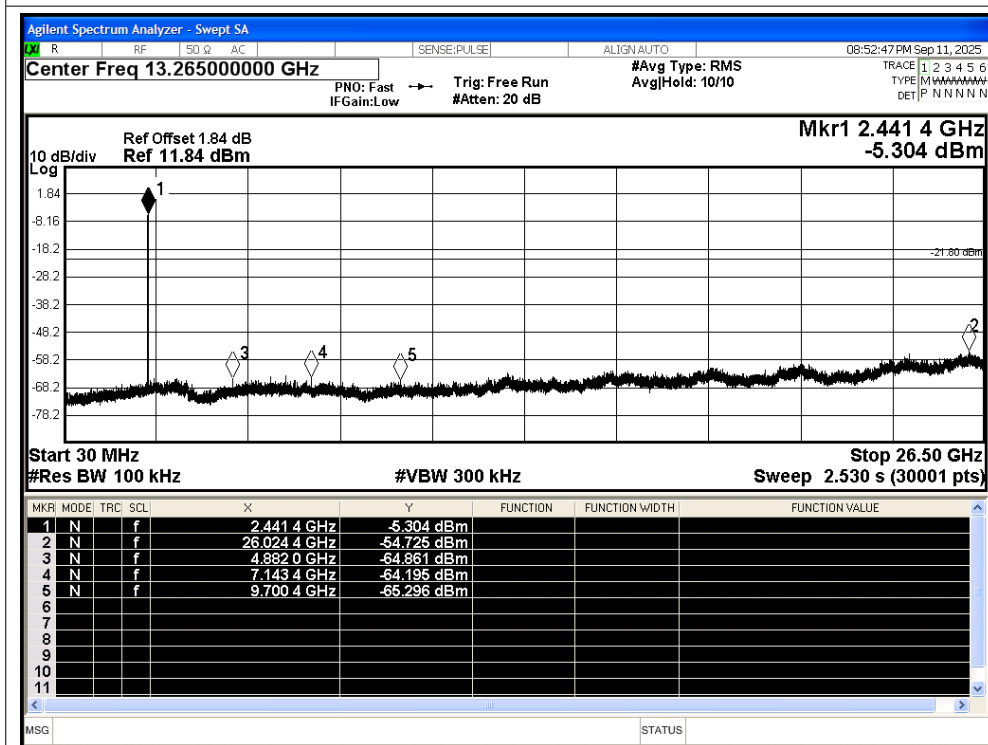
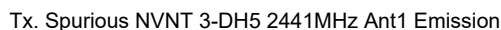
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

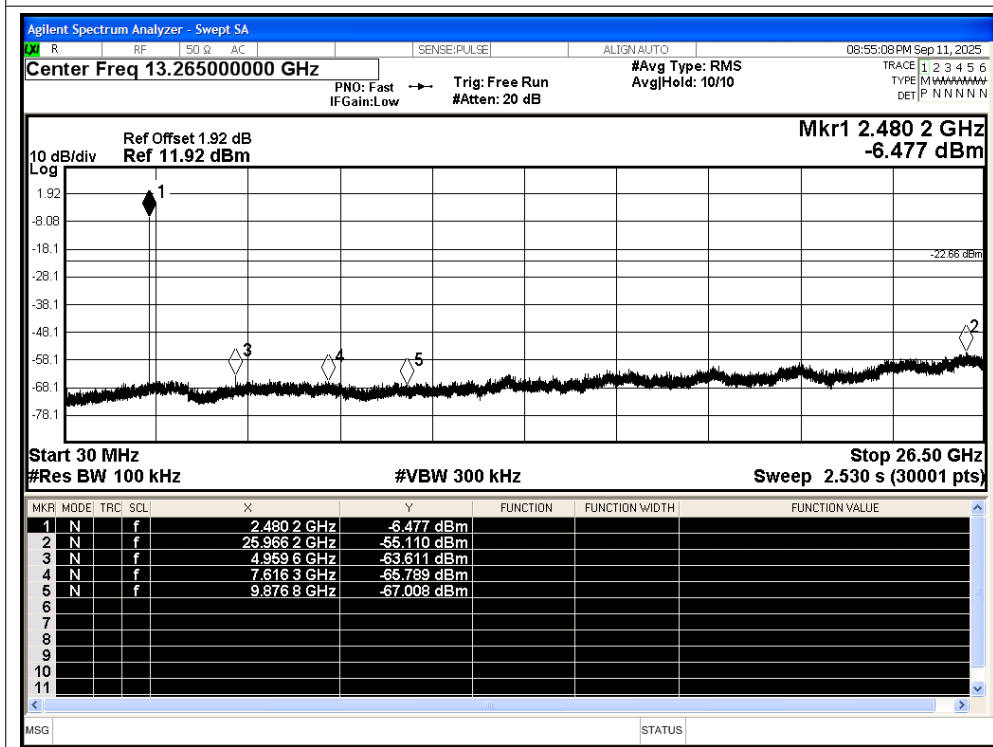
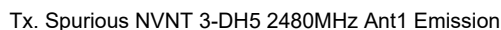


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission





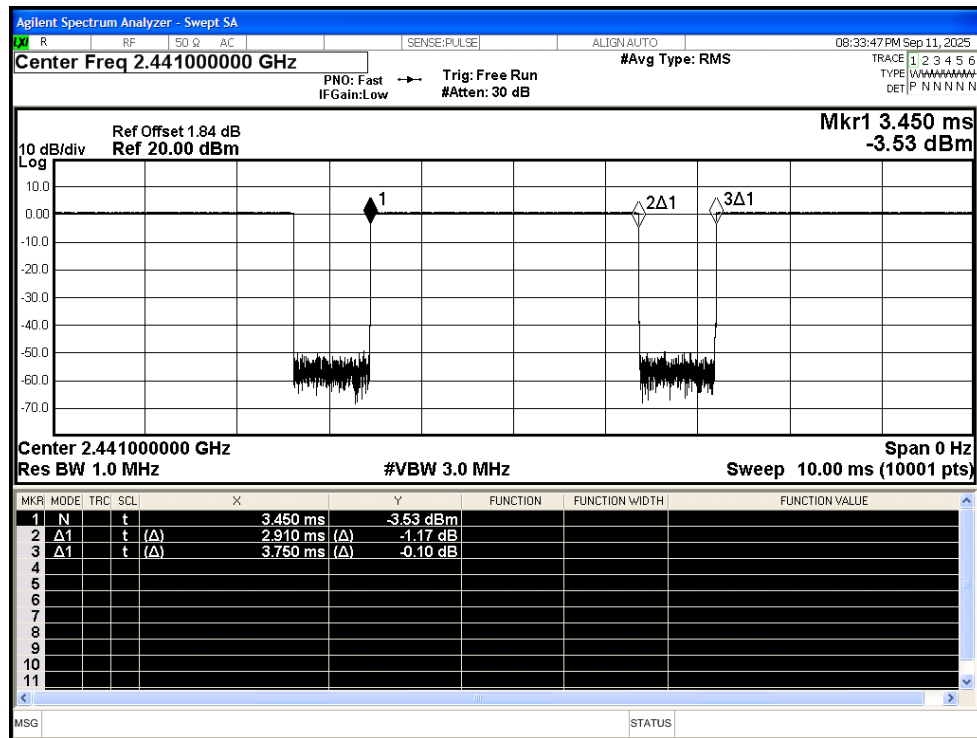
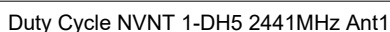




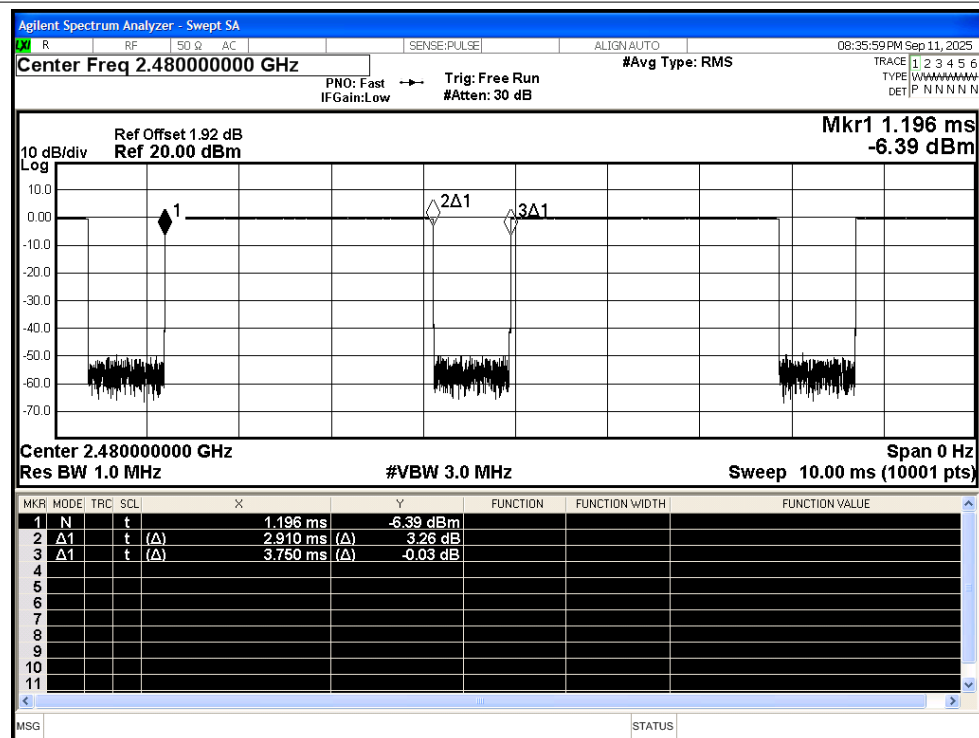
A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35

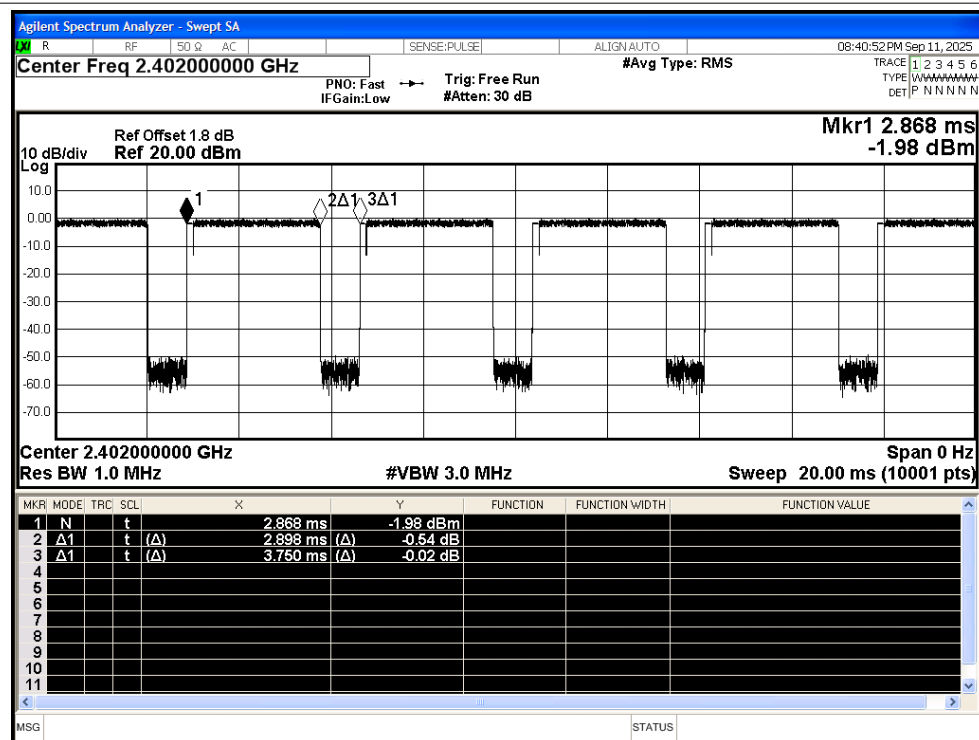
Duty Cycle NVNT 1-DH5 2402MHz Ant1



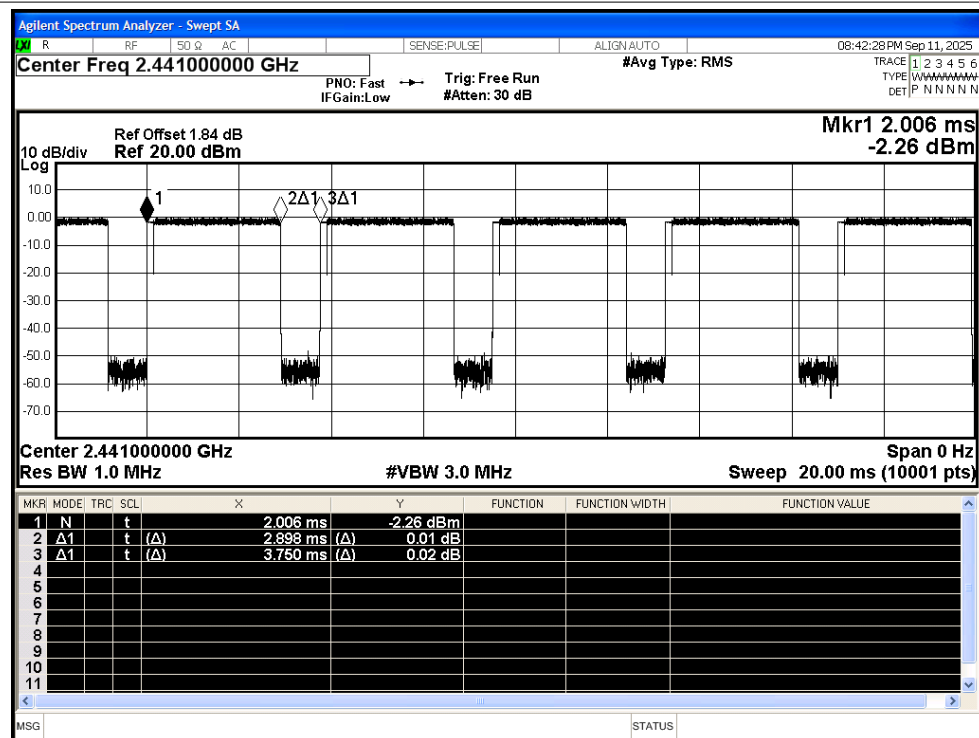
Duty Cycle NVNT 1-DH5 2480MHz Ant1



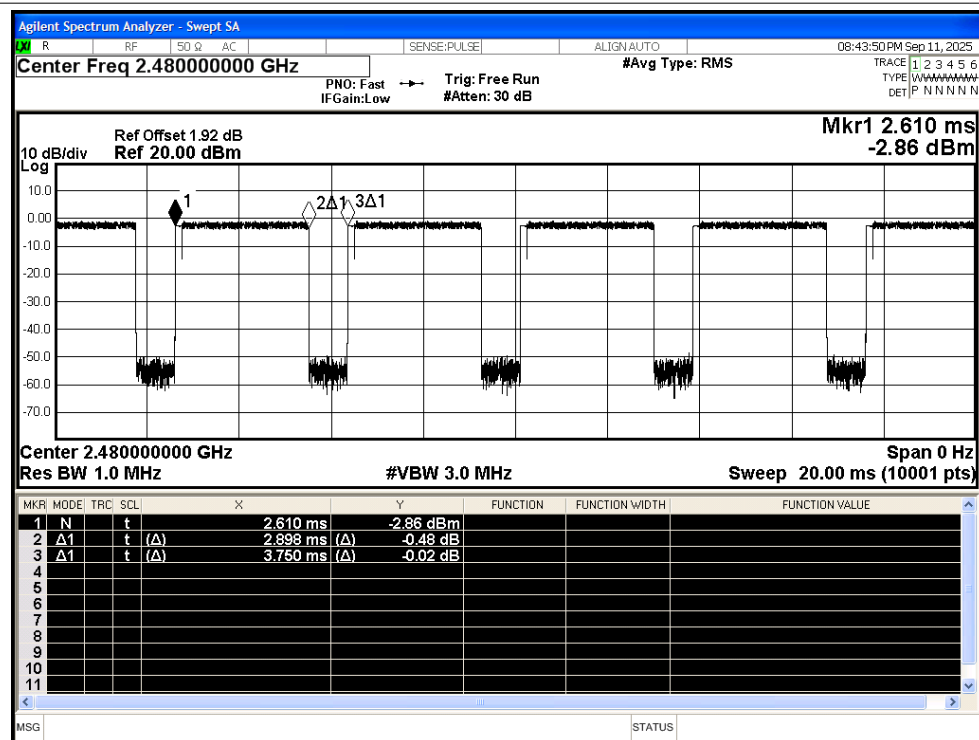
Duty Cycle NVNT 2-DH5 2402MHz Ant1



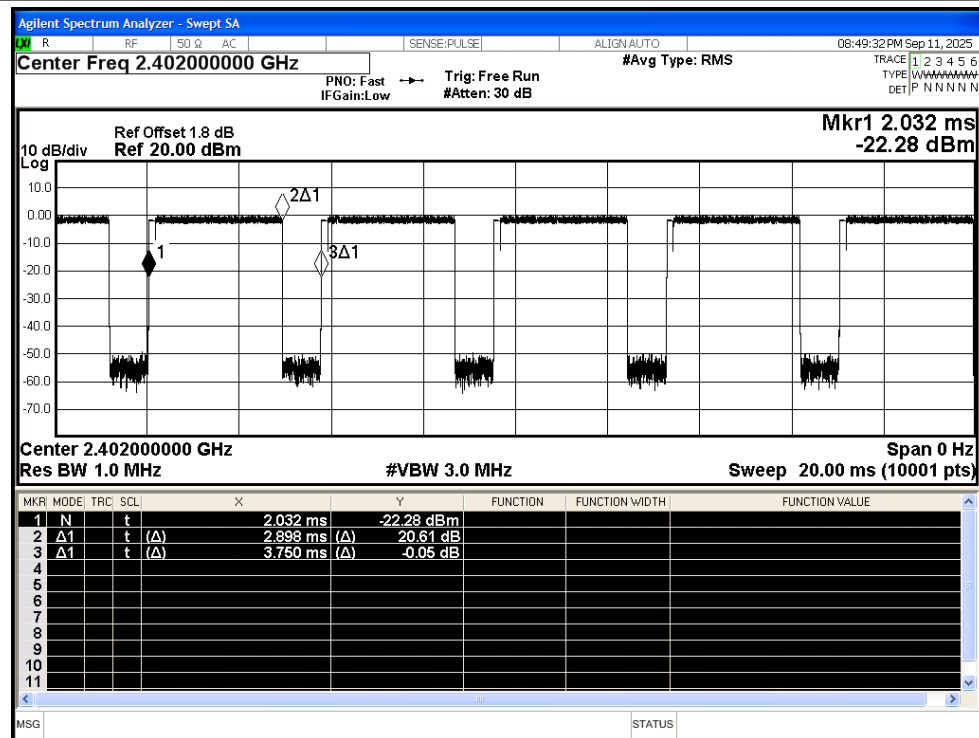
Duty Cycle NVNT 2-DH5 2441MHz Ant1



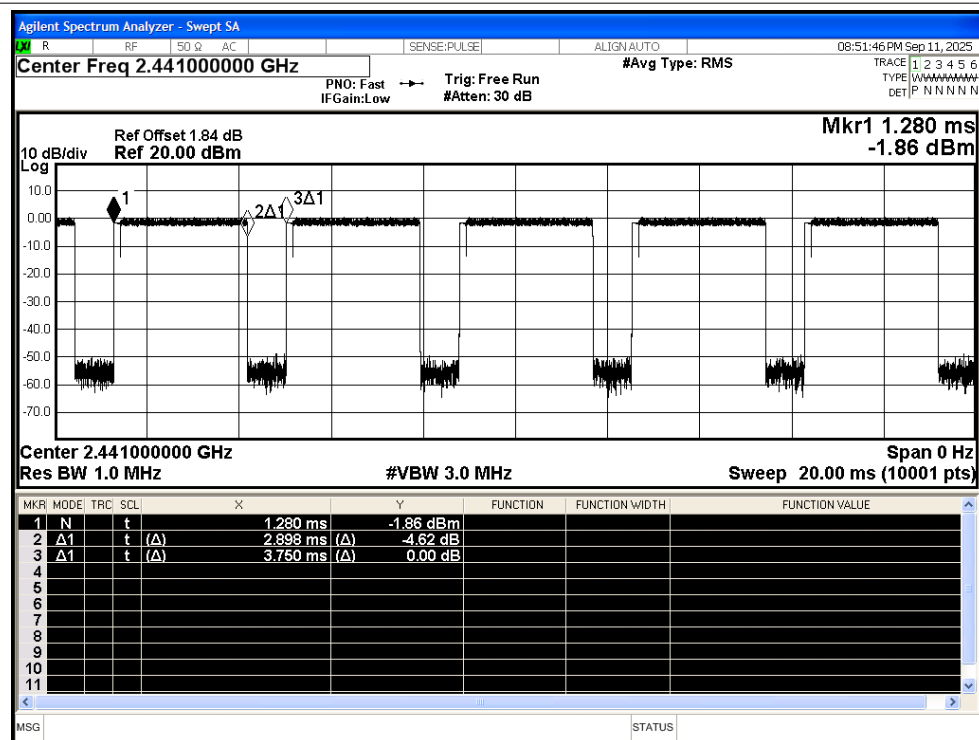
Duty Cycle NVNT 2-DH5 2480MHz Ant1

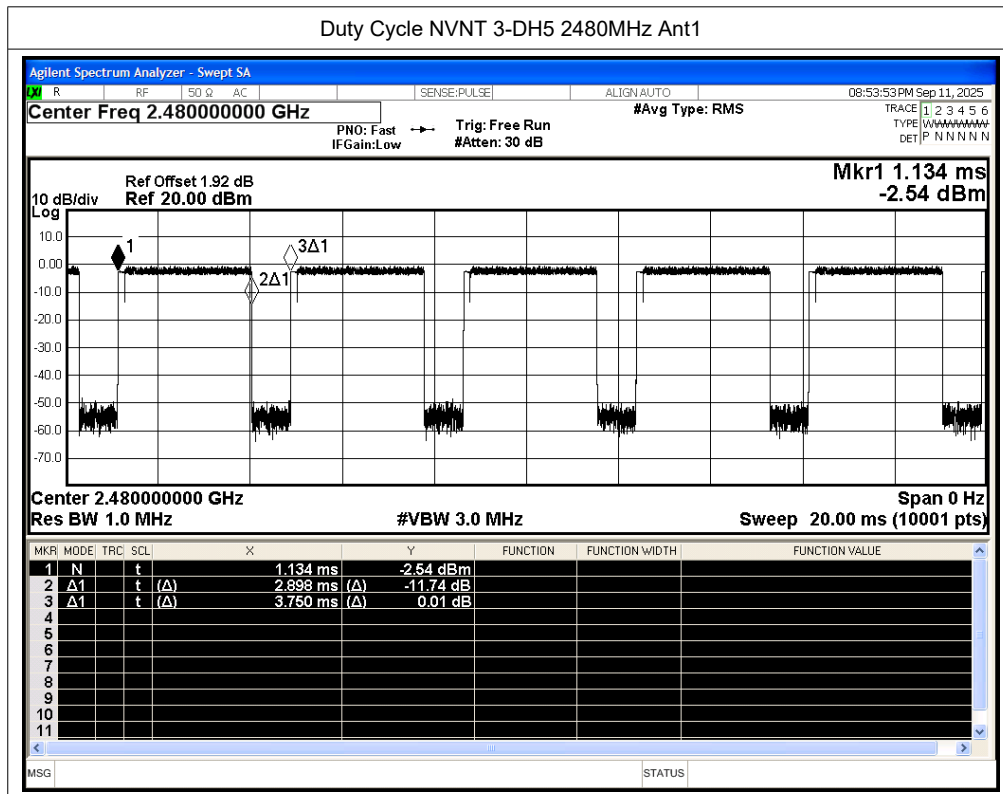


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1





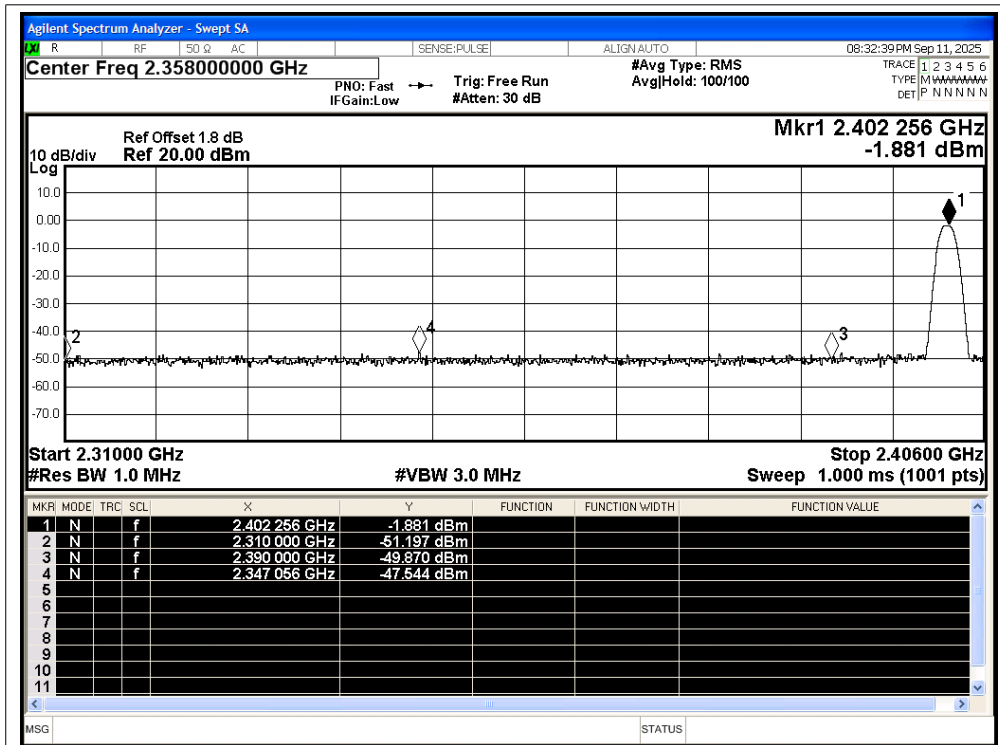
A.9 Restrict Band

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	Ant1	No-Hopping	2310	-51.2	2	-	46.06	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.3	2	1.1	39.06	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2347.056	-47.54	2	-	49.72	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2317.584	-57.86	2	1.1	40.5	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.87	2	-	47.39	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.38	2	1.1	39.98	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.74	2	-	46.52	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.85	2	1.1	40.51	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.52	-44.6	2	-	52.66	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.776	-57.18	2	1.1	41.18	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.02	2	-	49.24	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.91	2	1.1	40.45	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.51	2	-	45.75	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.33	2	1.12	40.05	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2342.064	-47.57	2	-	49.69	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2376.144	-57.77	2	1.12	40.61	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.46	2	-	47.8	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.64	2	1.12	39.74	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.42	2	-	47.84	Peak	74	Pass

NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.63	2	1.12	40.75	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.064	-47.02	2	-	50.24	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2492.848	-57.14	2	1.12	41.24	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.29	2	-	47.97	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.54	2	1.12	40.84	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-52.07	2	-	45.19	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.8	2	1.12	39.58	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2384.592	-47.31	2	-	49.95	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.584	-57.86	2	1.12	40.52	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-52.47	2	-	44.79	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.76	2	1.12	39.62	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.14	2	-	48.12	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.92	2	1.12	40.46	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2487.376	-46.76	2	-	50.5	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.832	-57.39	2	1.12	40.99	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.21	2	-	47.05	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.85	2	1.12	40.53	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

