



Appendix A

RF Test Data for BT(Conducted Measurement)

Product Name: Retroid pocket

Test Model: Retroid Pocket 5

Environmental Conditions

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



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A.1 -20dB Bandwidth

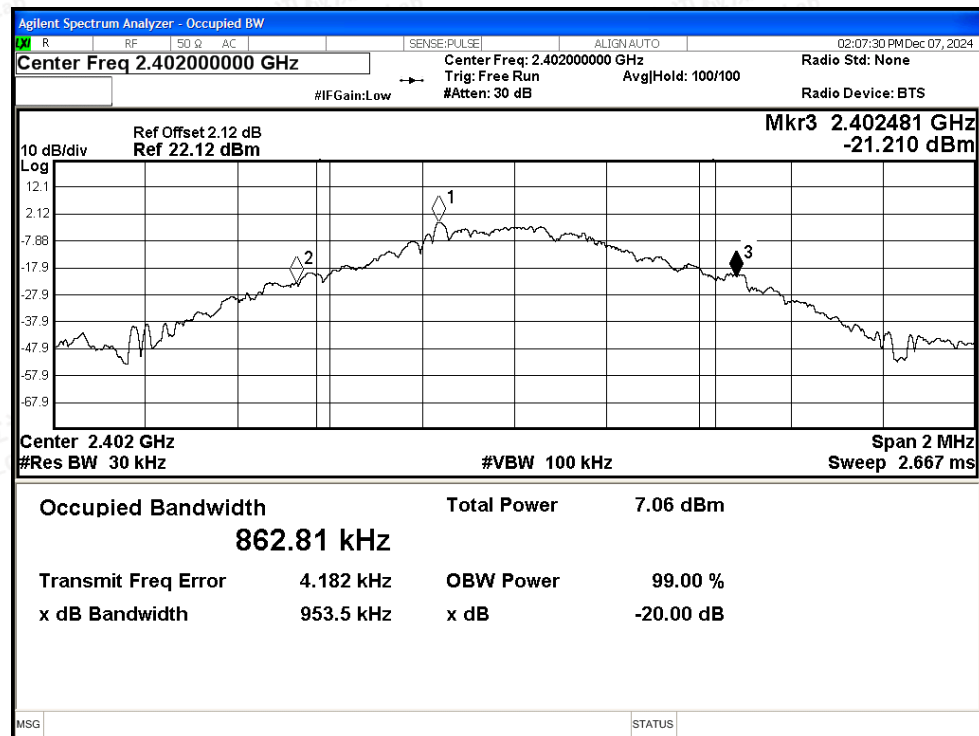
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant0	0.954	N/A	Pass
NVNT	1-DH5	2441	Ant0	1.001	N/A	Pass
NVNT	1-DH5	2480	Ant0	0.959	N/A	Pass
NVNT	2-DH5	2402	Ant0	1.309	N/A	Pass
NVNT	2-DH5	2441	Ant0	1.313	N/A	Pass
NVNT	2-DH5	2480	Ant0	1.285	N/A	Pass
NVNT	3-DH5	2402	Ant0	1.281	N/A	Pass
NVNT	3-DH5	2441	Ant0	1.303	N/A	Pass
NVNT	3-DH5	2480	Ant0	1.308	N/A	Pass



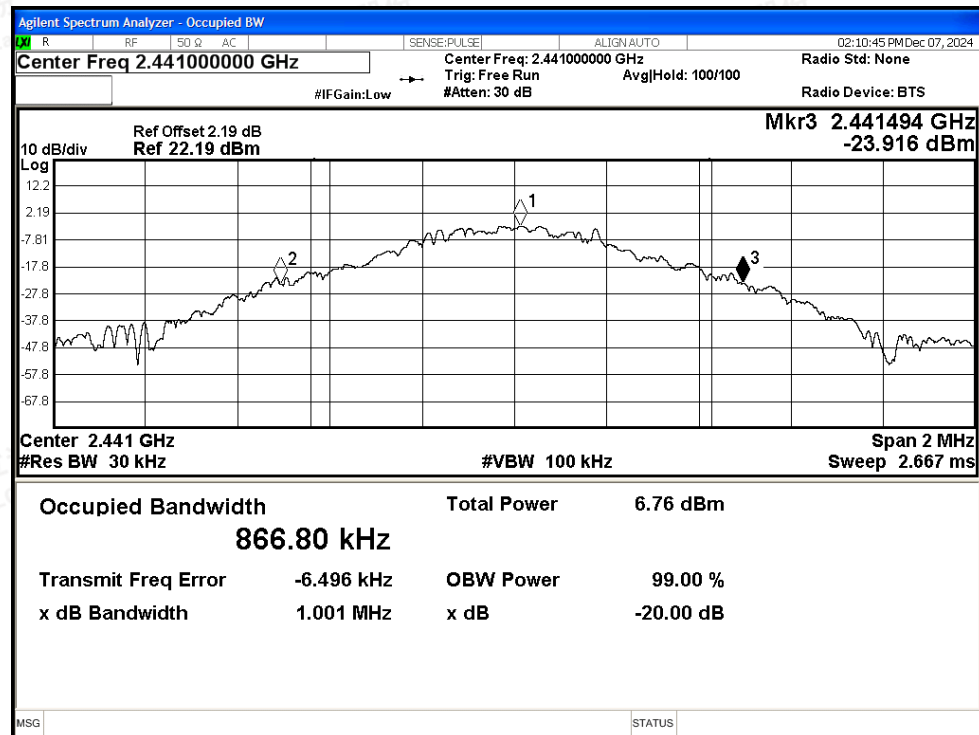


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant0

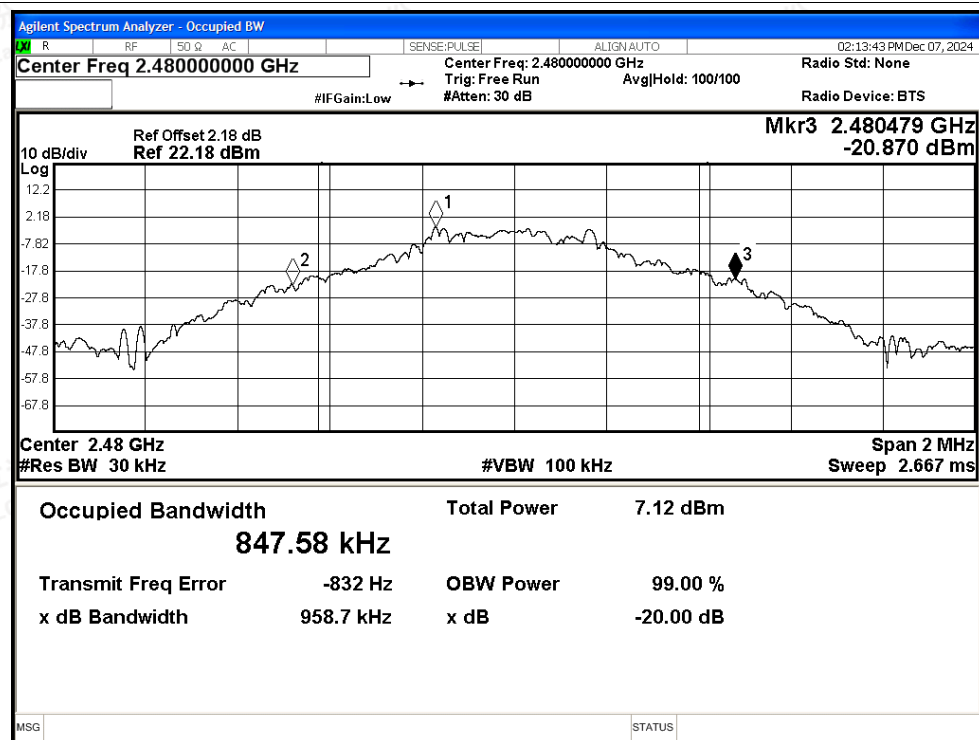


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant0

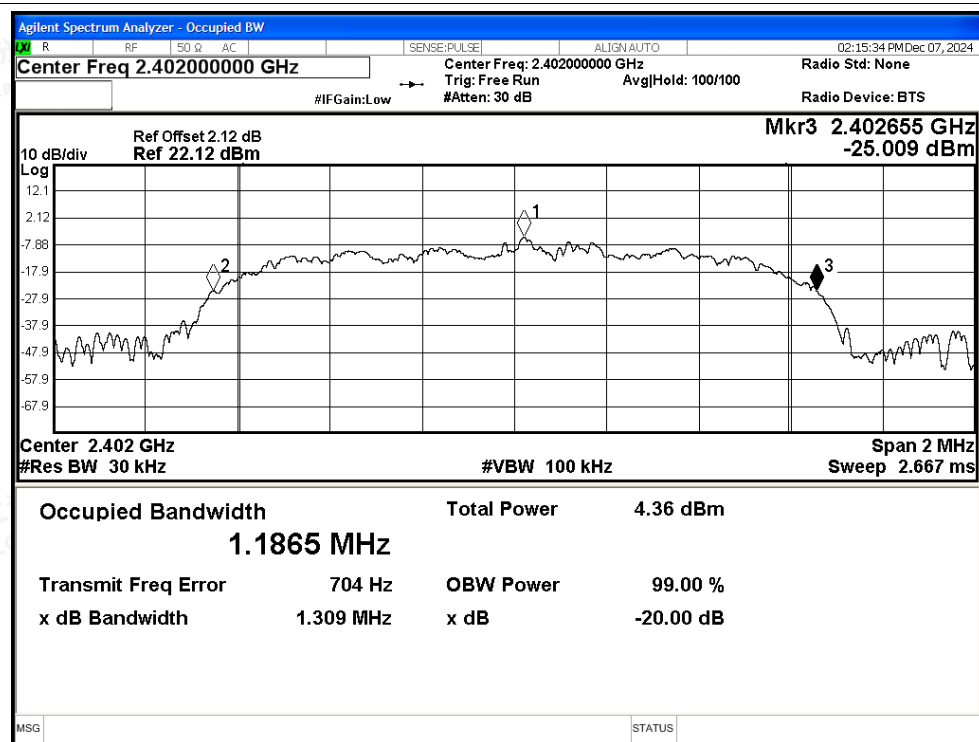




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant0

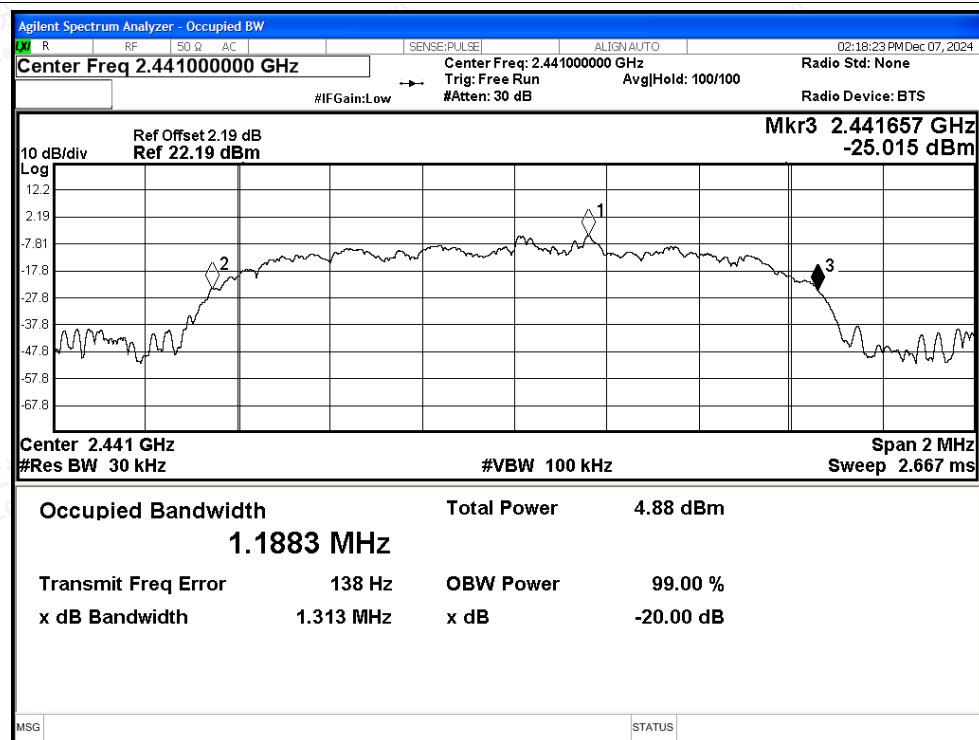


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant0

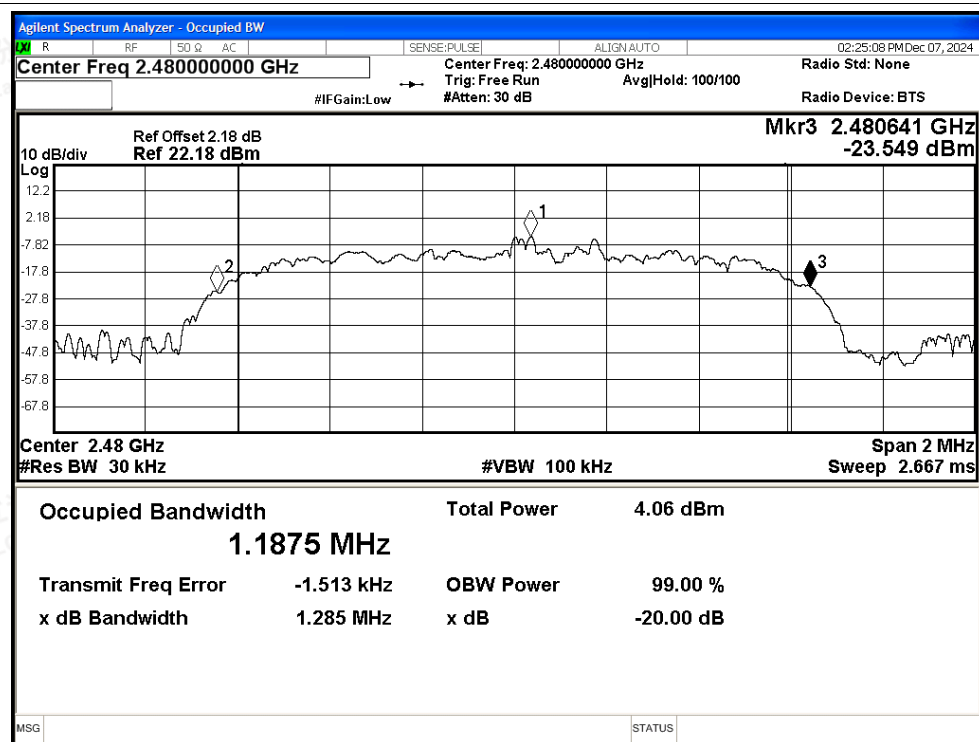




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant0

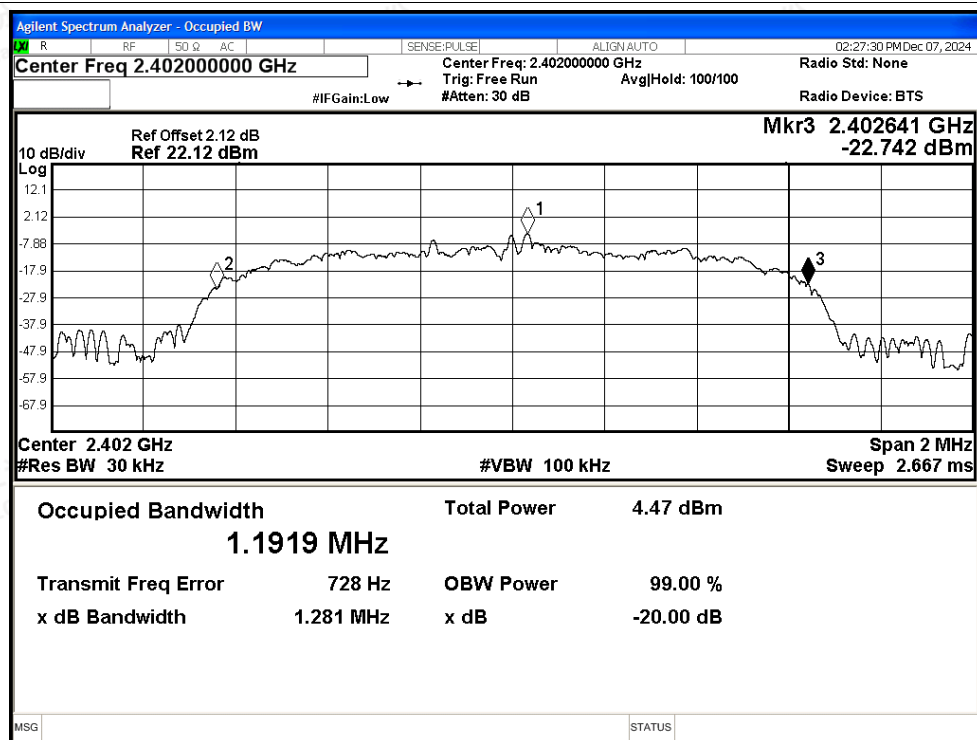


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant0

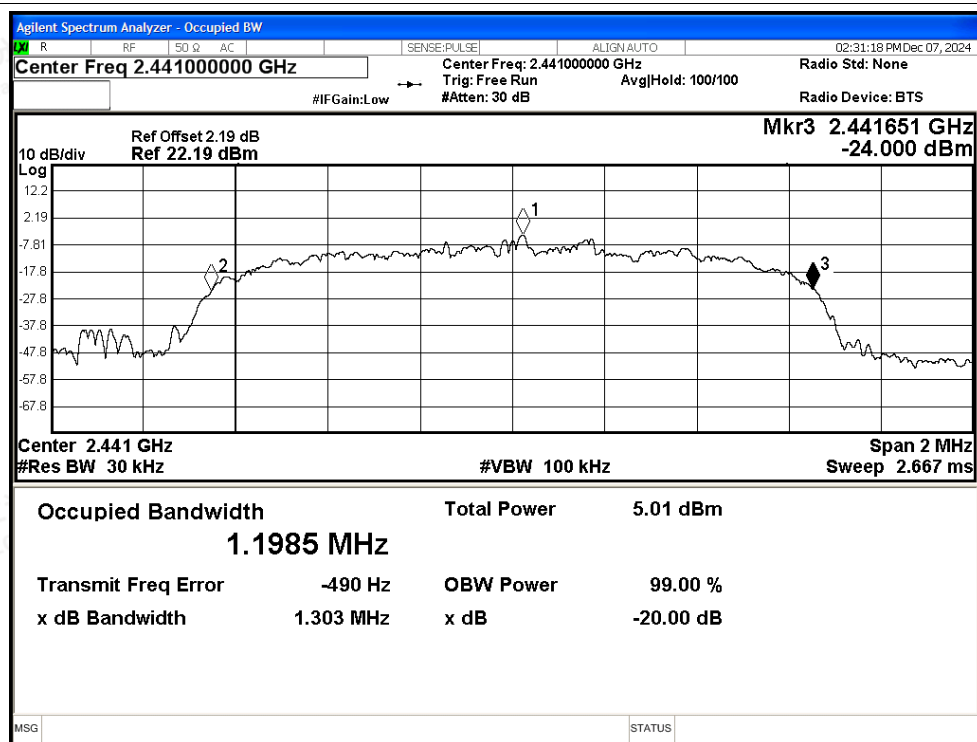


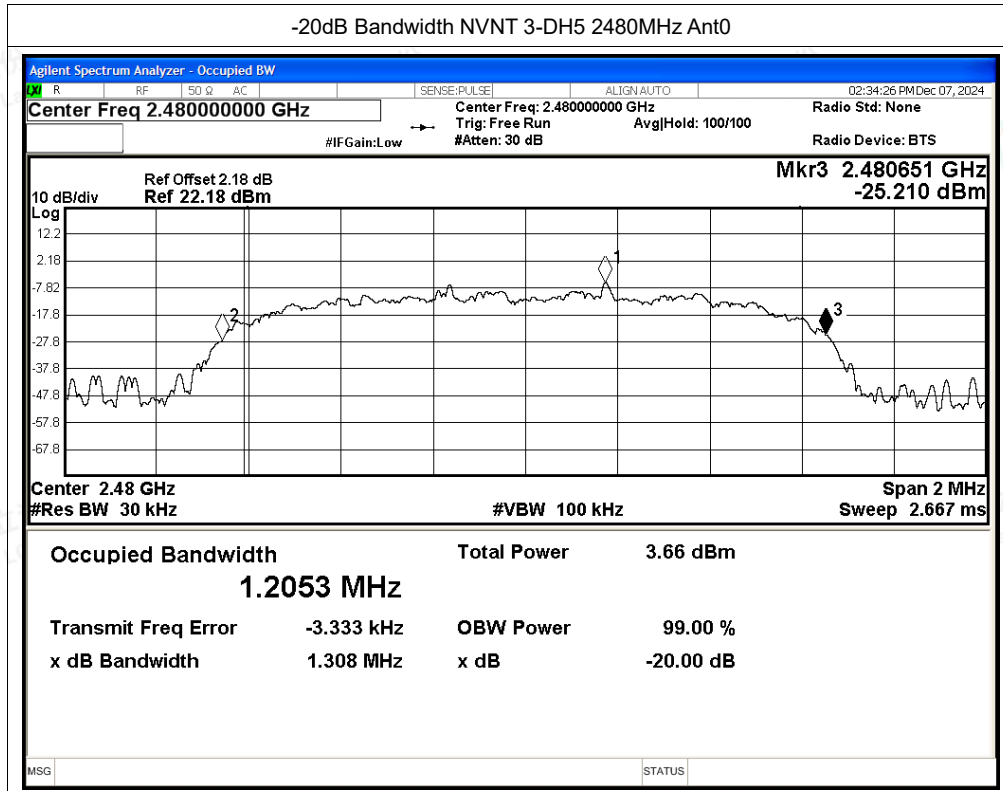


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant0



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant0







A.2 Maximum Peak Conducted Output Power

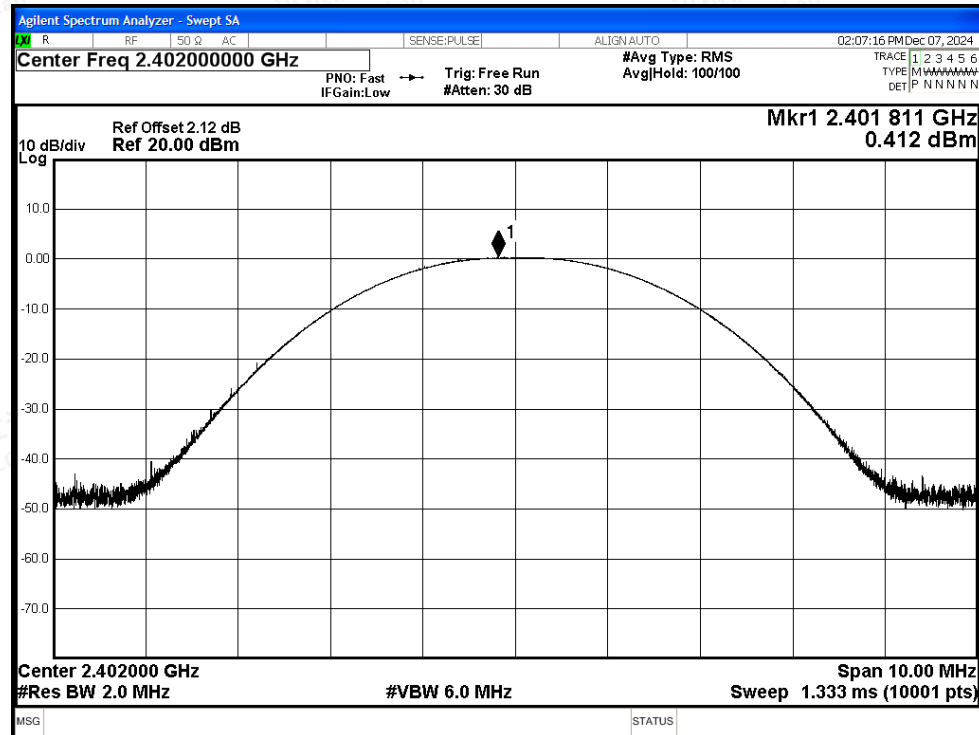
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant0	0.41	21	Pass
NVNT	1-DH5	2441	Ant0	0.47	21	Pass
NVNT	1-DH5	2480	Ant0	0.48	21	Pass
NVNT	2-DH5	2402	Ant0	0.06	21	Pass
NVNT	2-DH5	2441	Ant0	0.59	21	Pass
NVNT	2-DH5	2480	Ant0	-0.24	21	Pass
NVNT	3-DH5	2402	Ant0	0.52	21	Pass
NVNT	3-DH5	2441	Ant0	0.93	21	Pass
NVNT	3-DH5	2480	Ant0	0.09	21	Pass



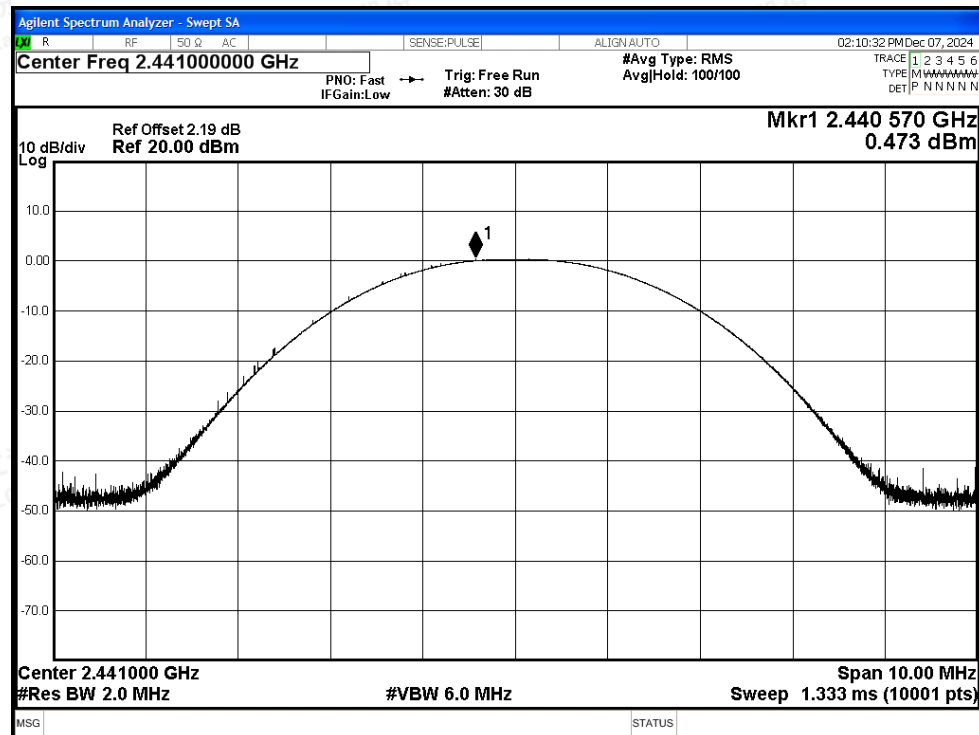


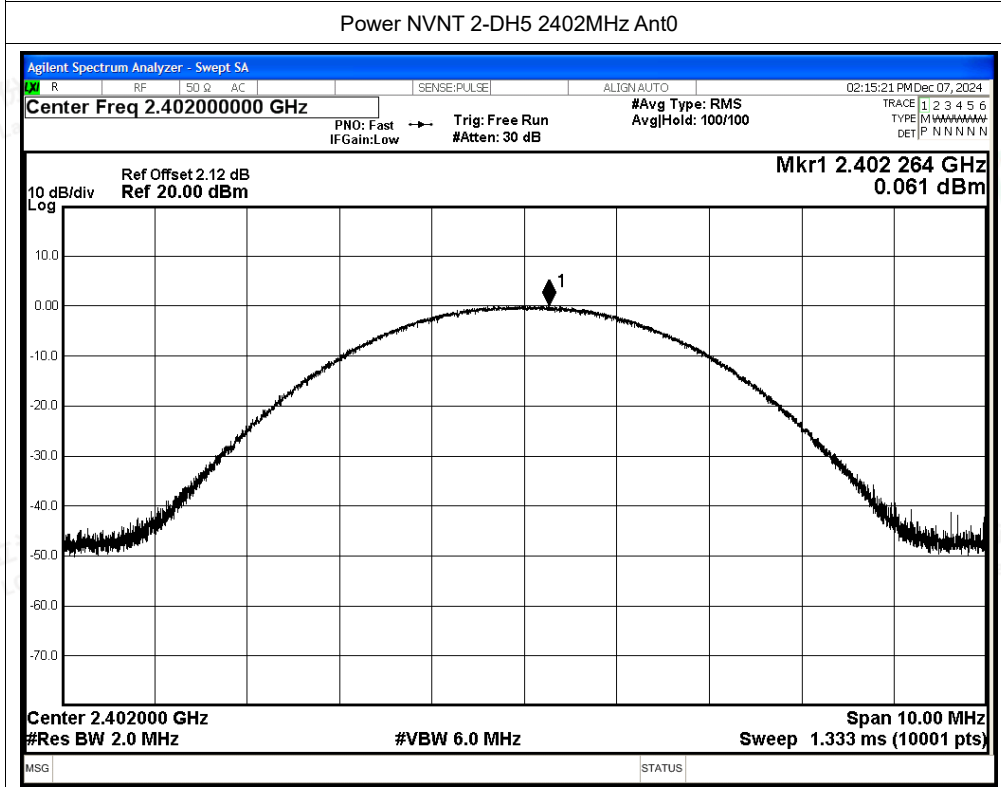
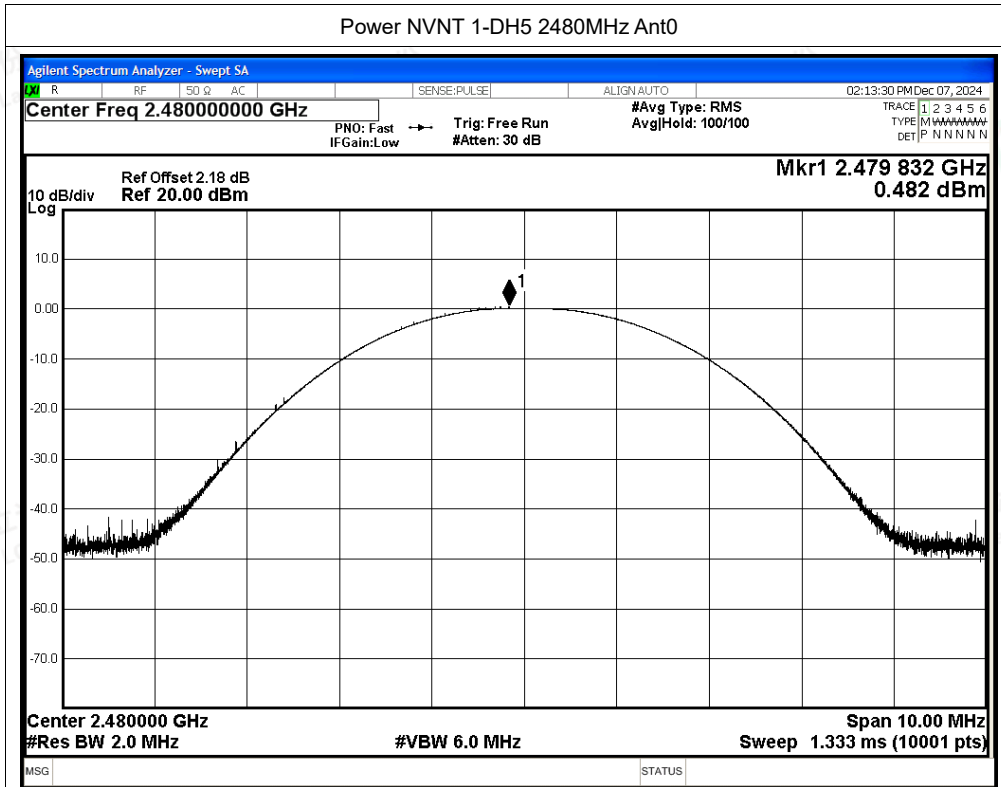
Test Graphs

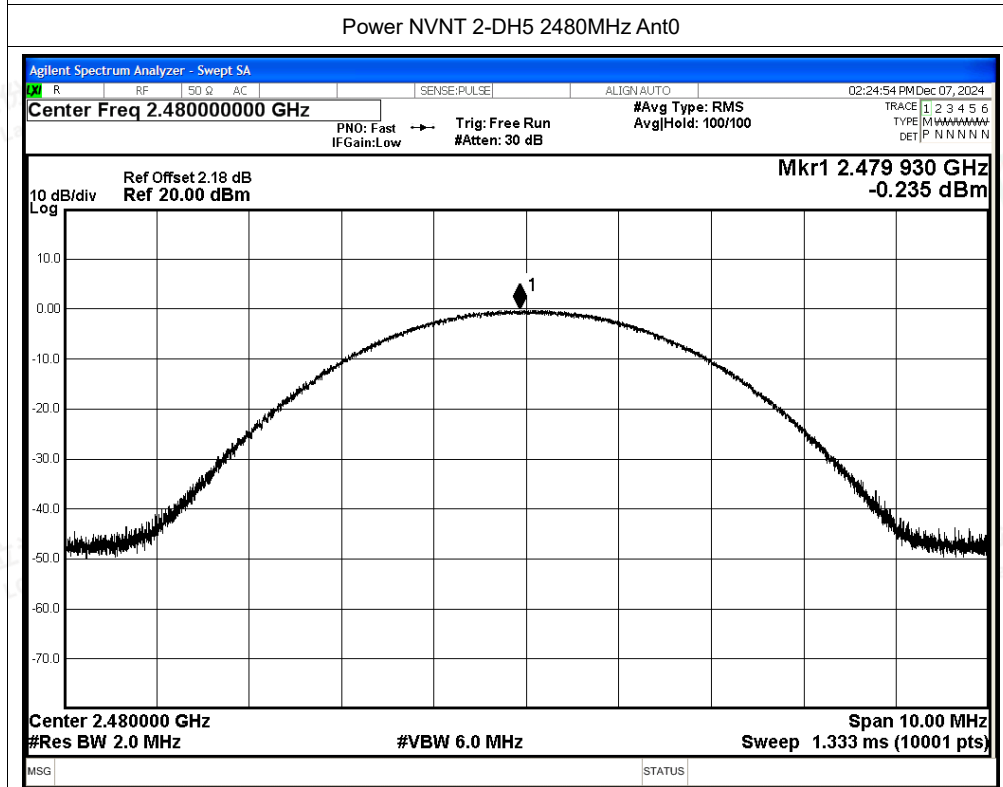
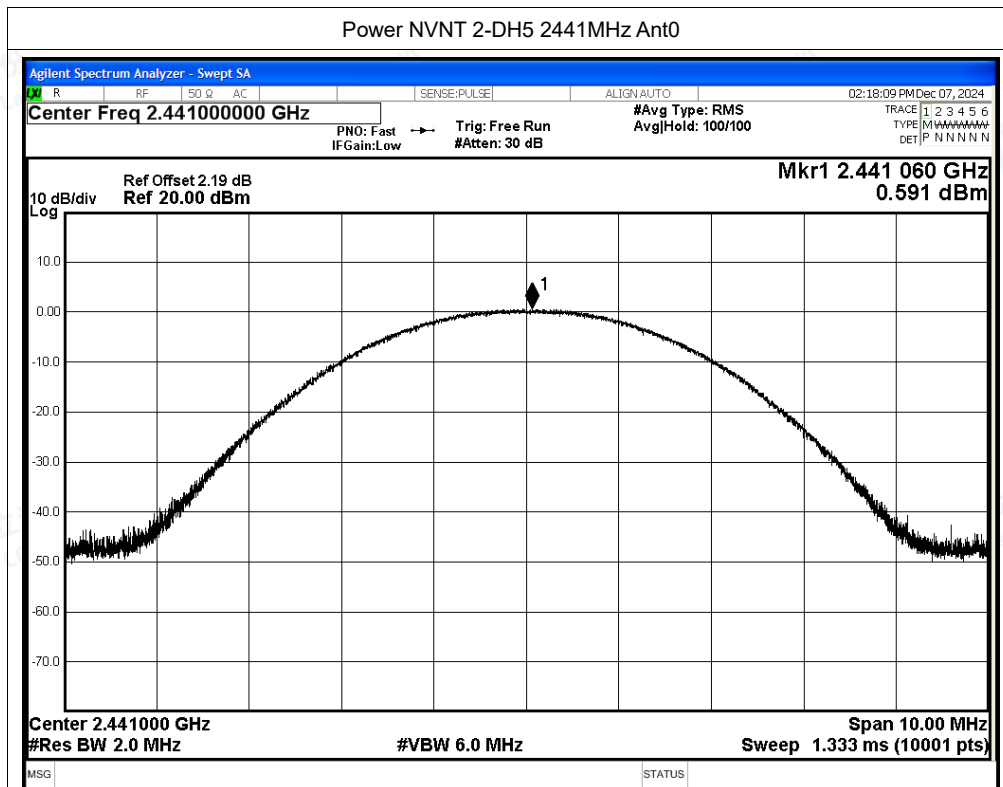
Power NVNT 1-DH5 2402MHz Ant0

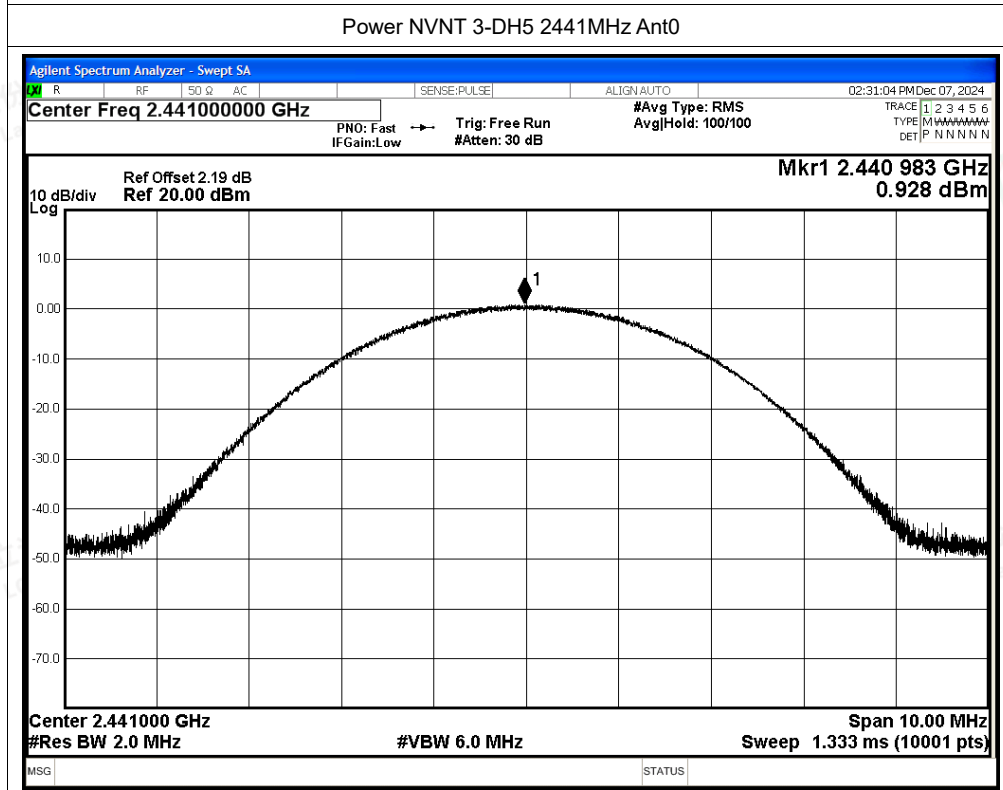
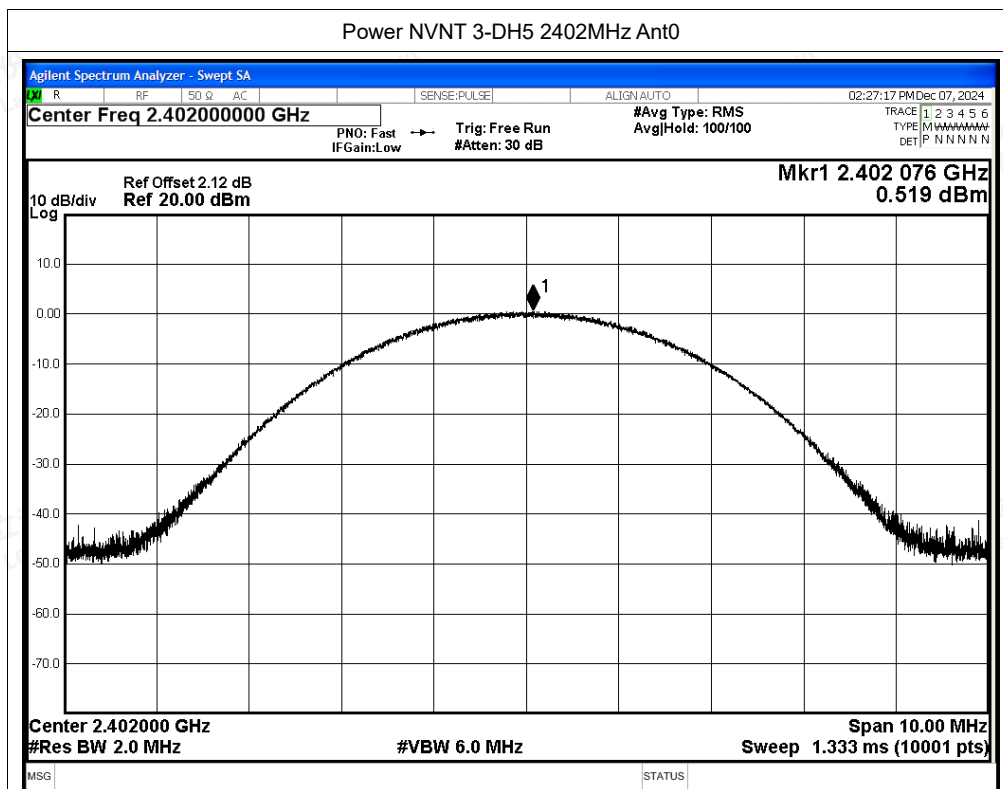


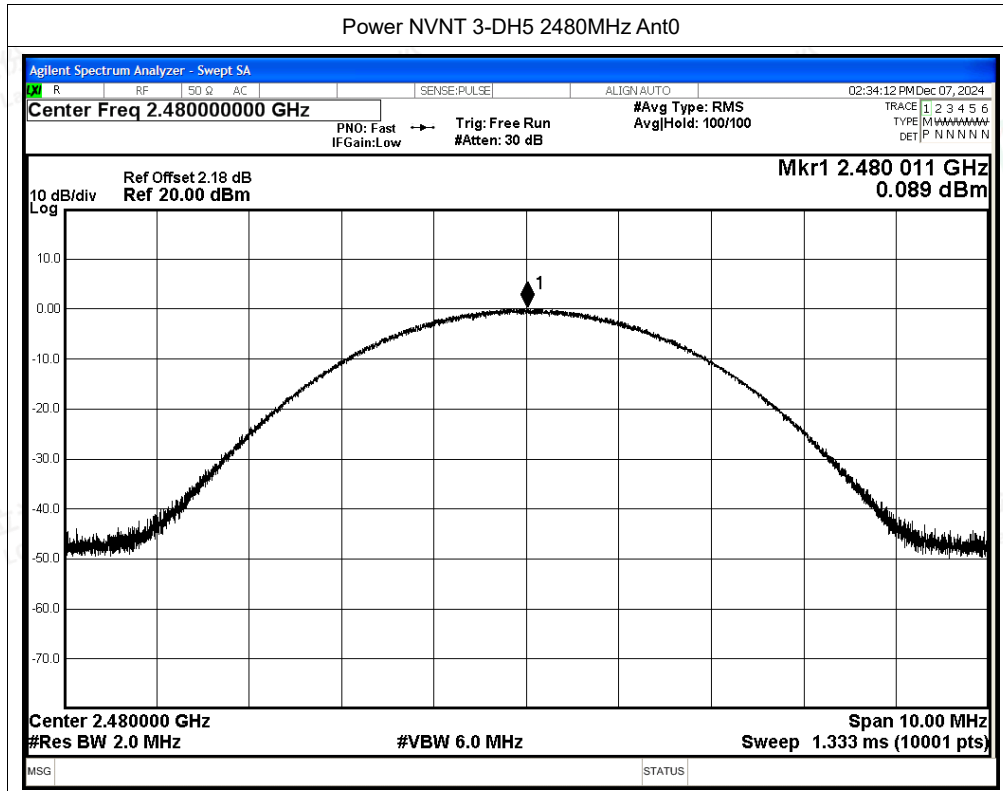
Power NVNT 1-DH5 2441MHz Ant0













A.3 Carrier Frequencies Separation

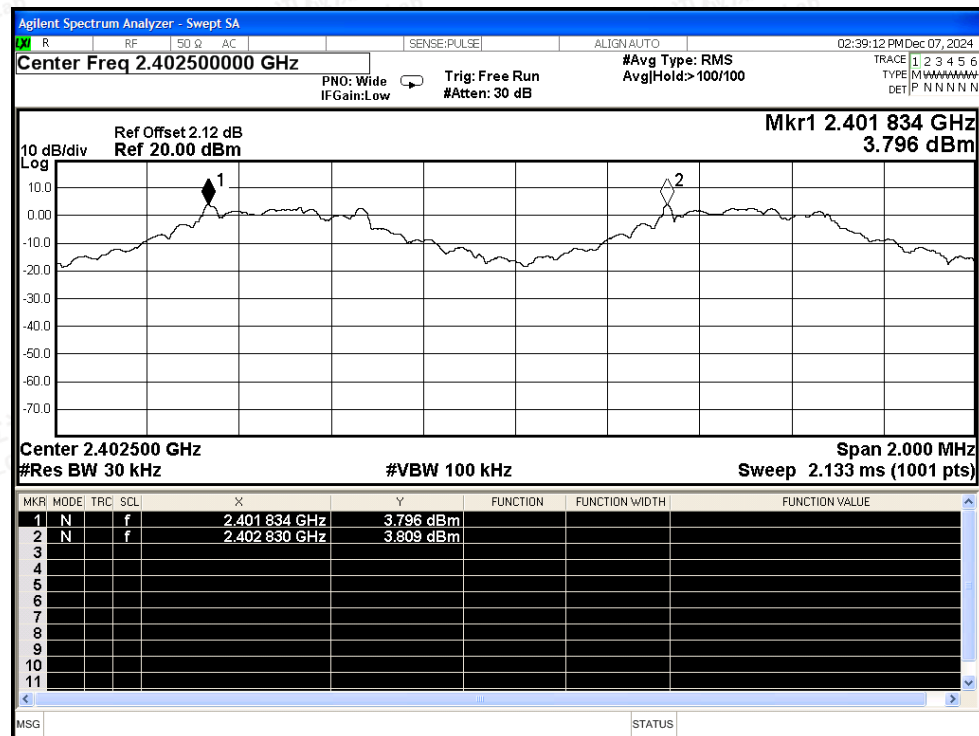
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant0	2401.834	2402.83	0.996	0.667	Pass
NVNT	2-DH5	Ant0	2402.032	2403.03	0.998	0.875	Pass
NVNT	3-DH5	Ant0	2402.016	2403.026	1.01	0.872	Pass



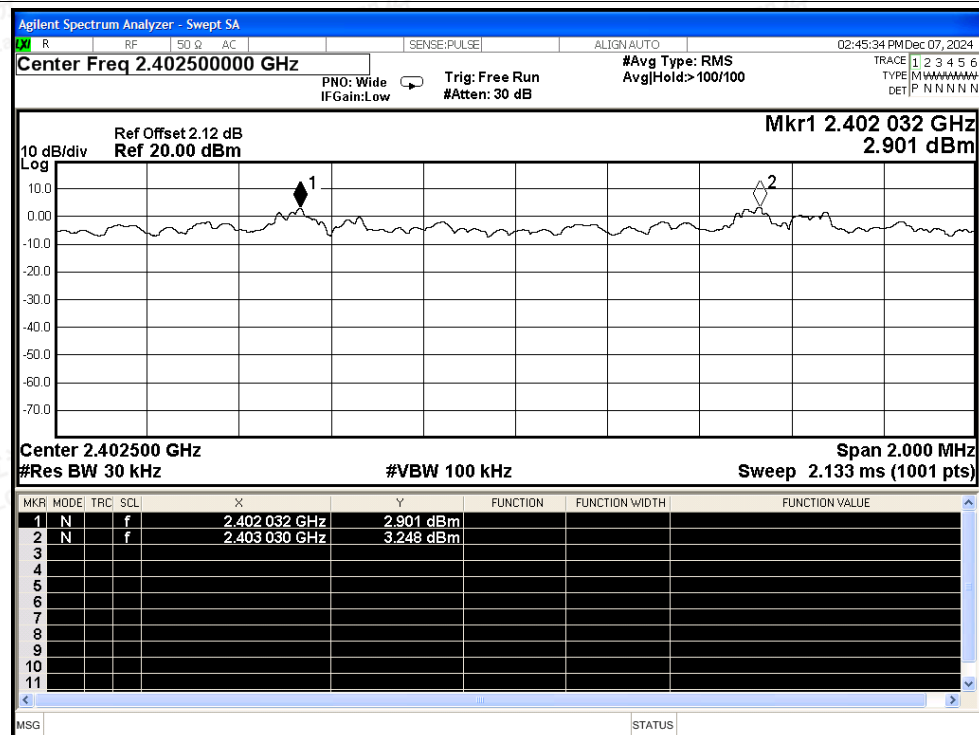


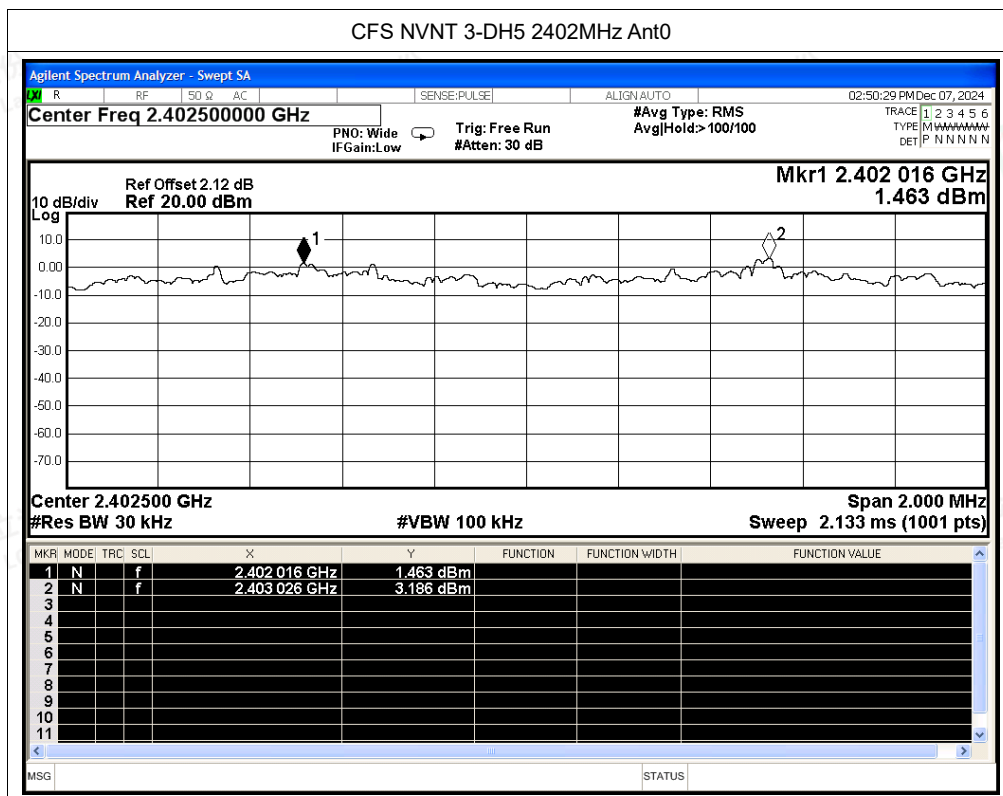
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant0



CFS NVNT 2-DH5 2402MHz Ant0







A.4 Dwell Time

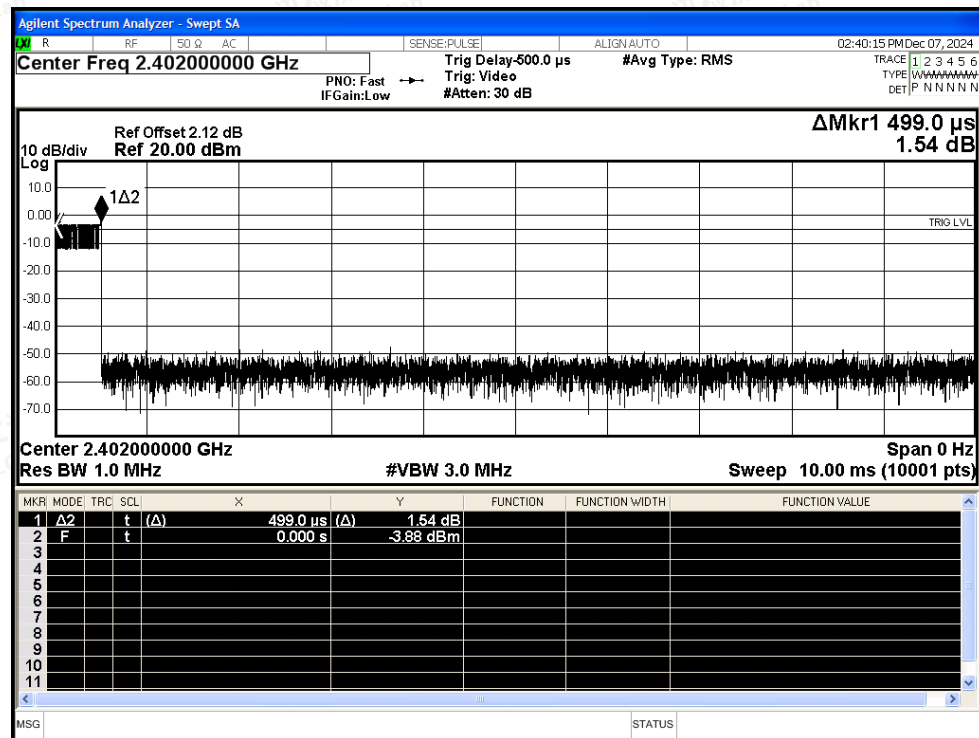
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant0	0.499	51.397	103	31600	400	Pass
NVNT	2-DH5	2402	Ant0	2.898	298.494	103	31600	400	Pass
NVNT	3-DH5	2402	Ant0	2.897	307.082	106	31600	400	Pass



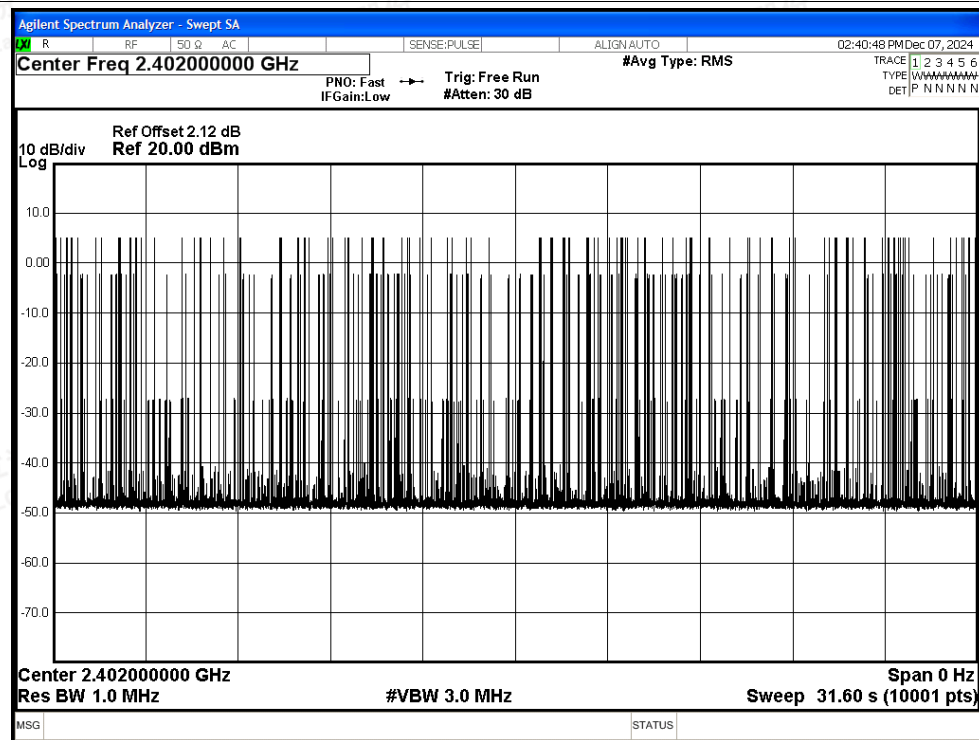


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant0 One Burst

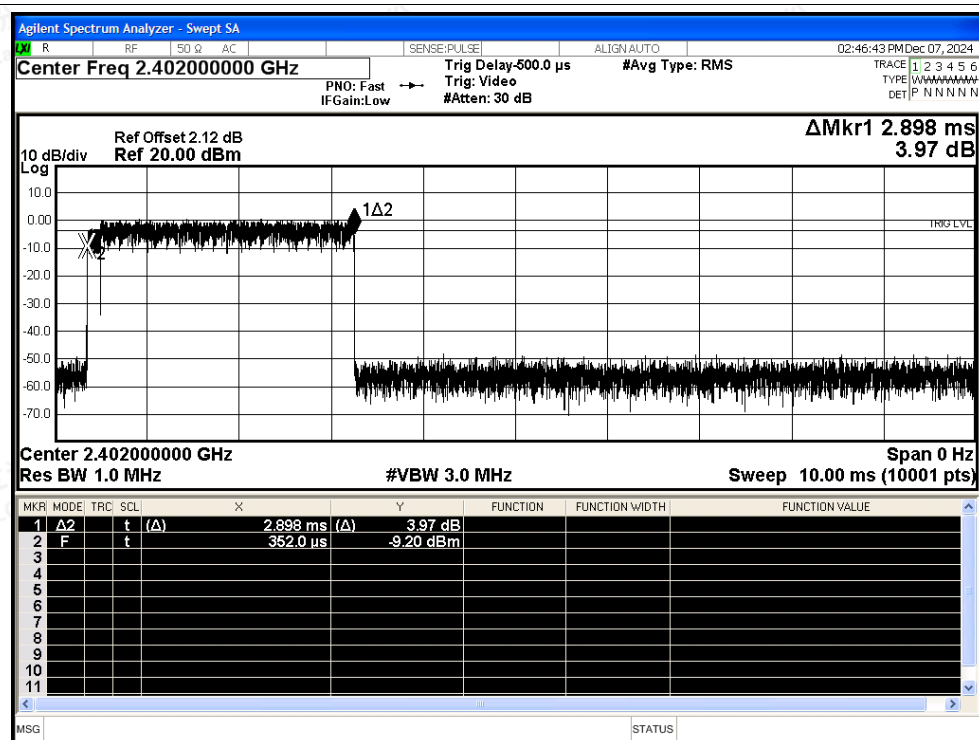


Dwell NVNT 1-DH5 2402MHz Ant0 Accumulated

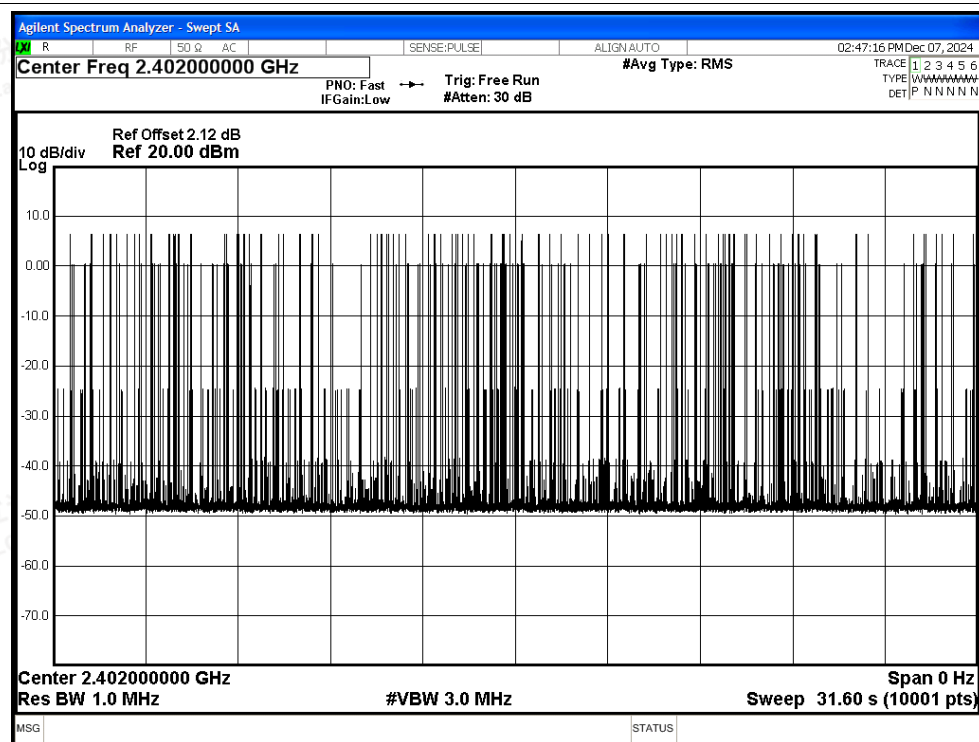




Dwell NVNT 2-DH5 2402MHz Ant0 One Burst

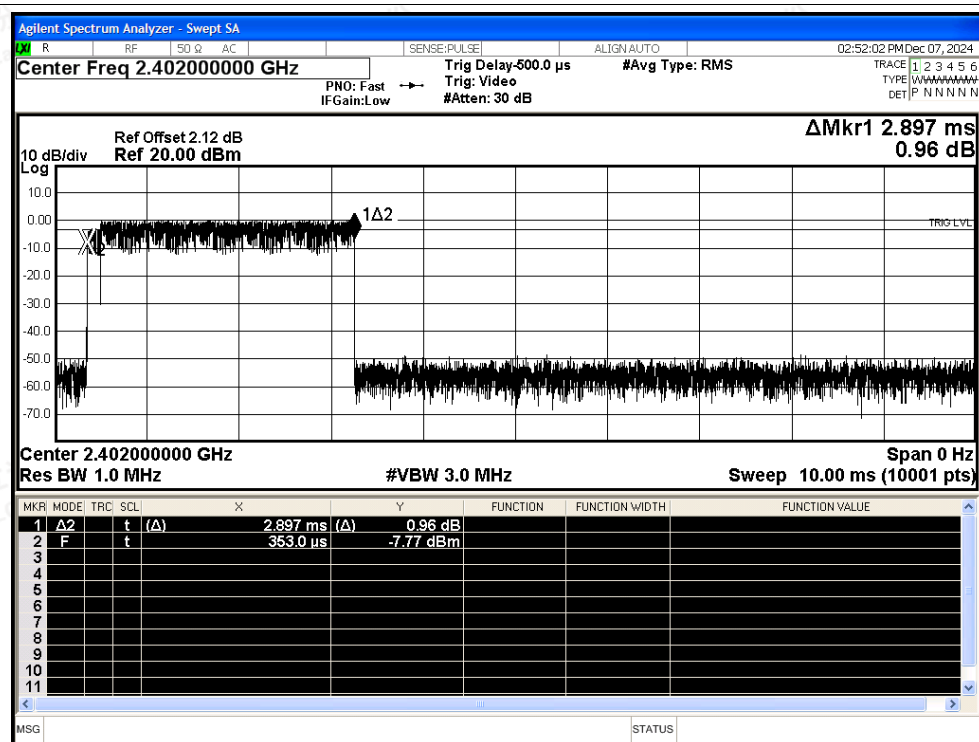


Dwell NVNT 2-DH5 2402MHz Ant0 Accumulated

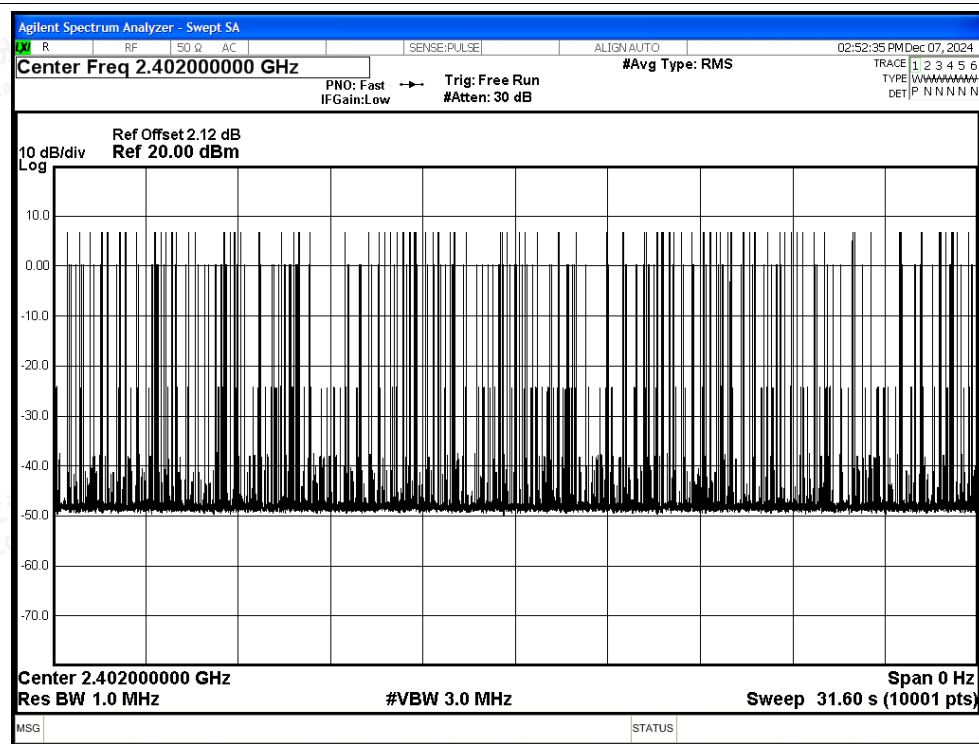




Dwell NVNT 3-DH5 2402MHz Ant0 One Burst



Dwell NVNT 3-DH5 2402MHz Ant0 Accumulated





A.5 Number of Hopping Channel

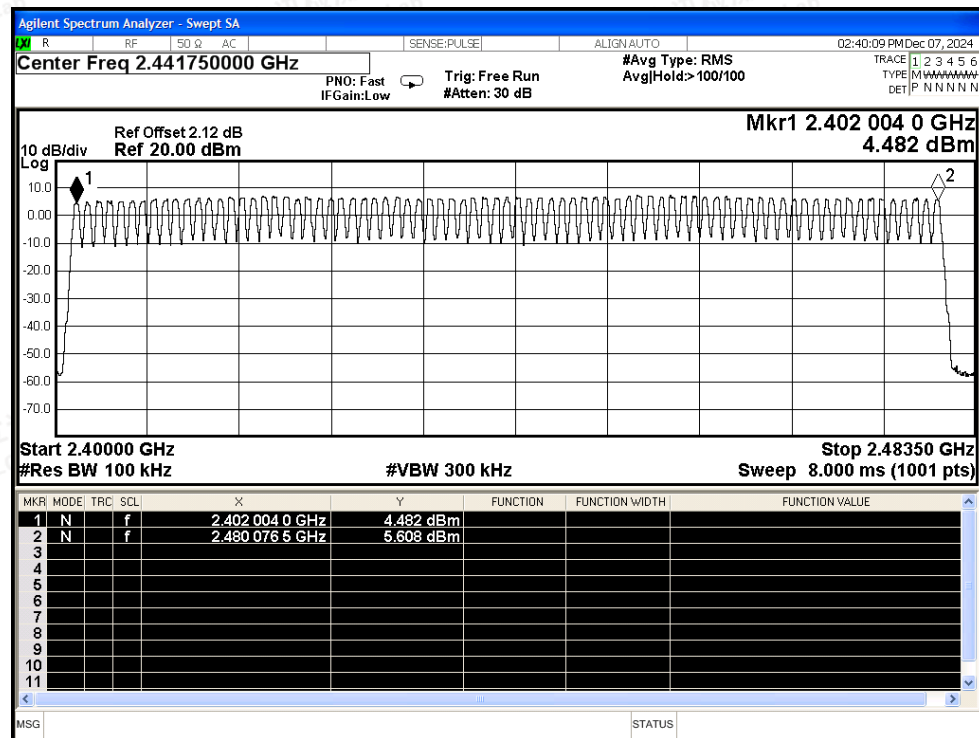
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant0	79	15	Pass
NVNT	2-DH5	Ant0	79	15	Pass
NVNT	3-DH5	Ant0	79	15	Pass



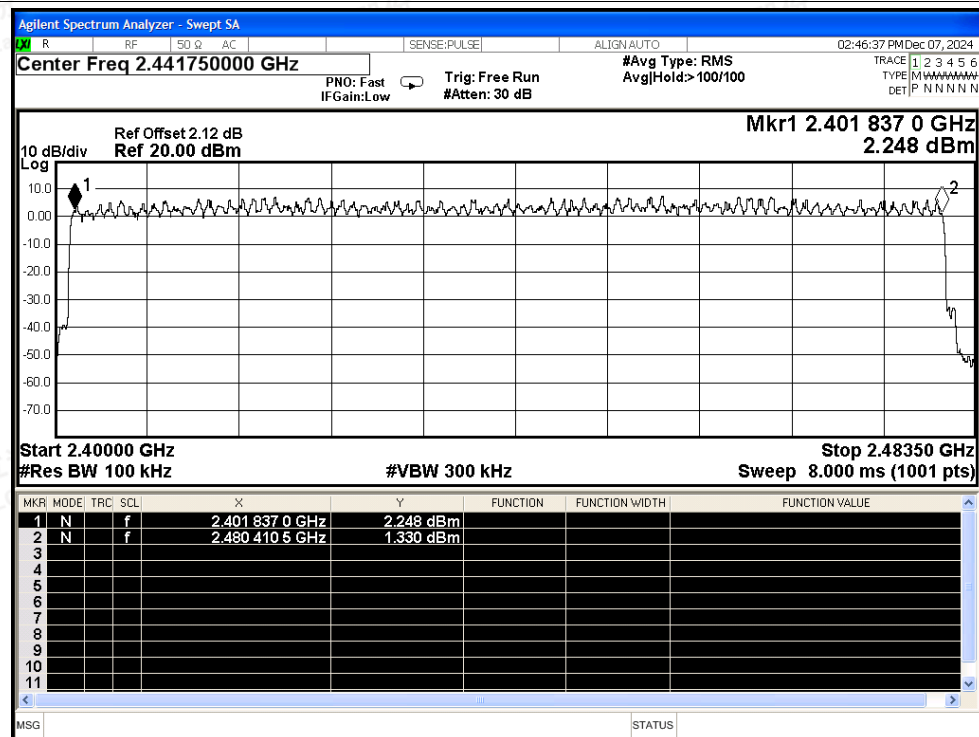


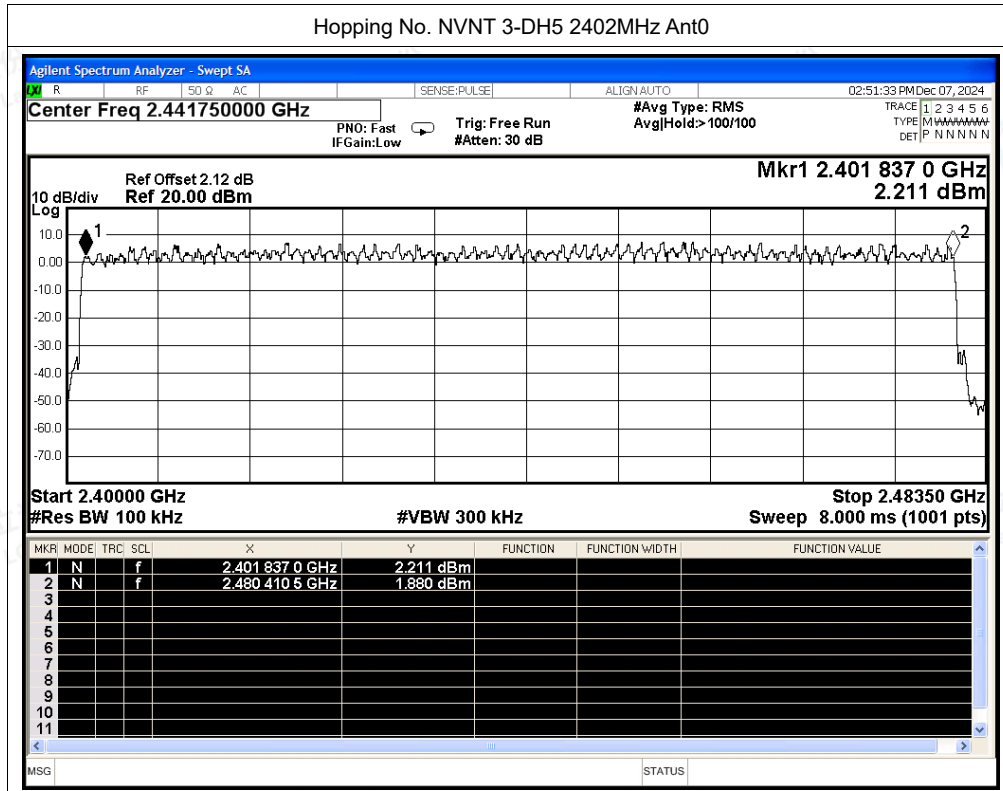
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant0



Hopping No. NVNT 2-DH5 2402MHz Ant0







A.6 Band Edge

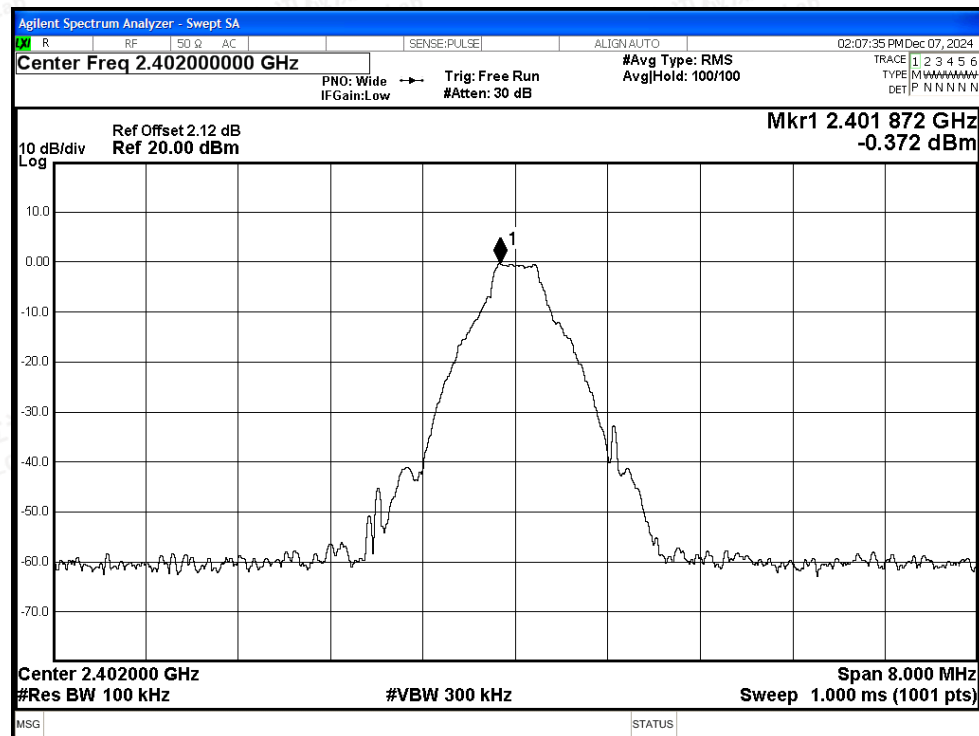
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	No-Hopping	-54.11	-20	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	-56.22	-20	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	-51.23	-20	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	-53.57	-20	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	-48.65	-20	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	-53.34	-20	Pass



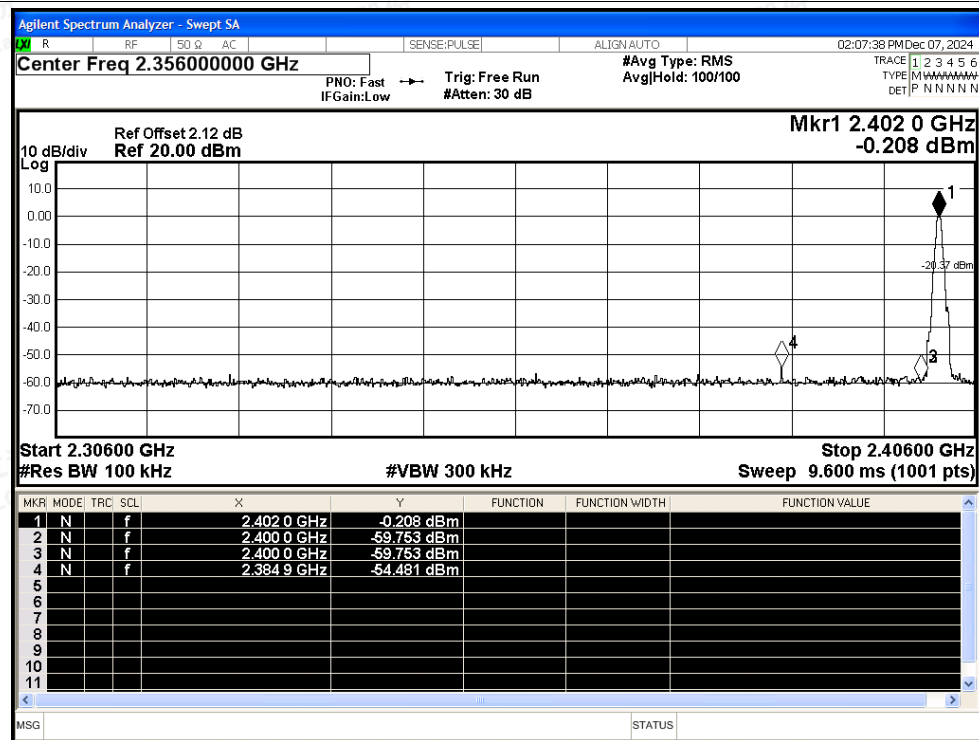


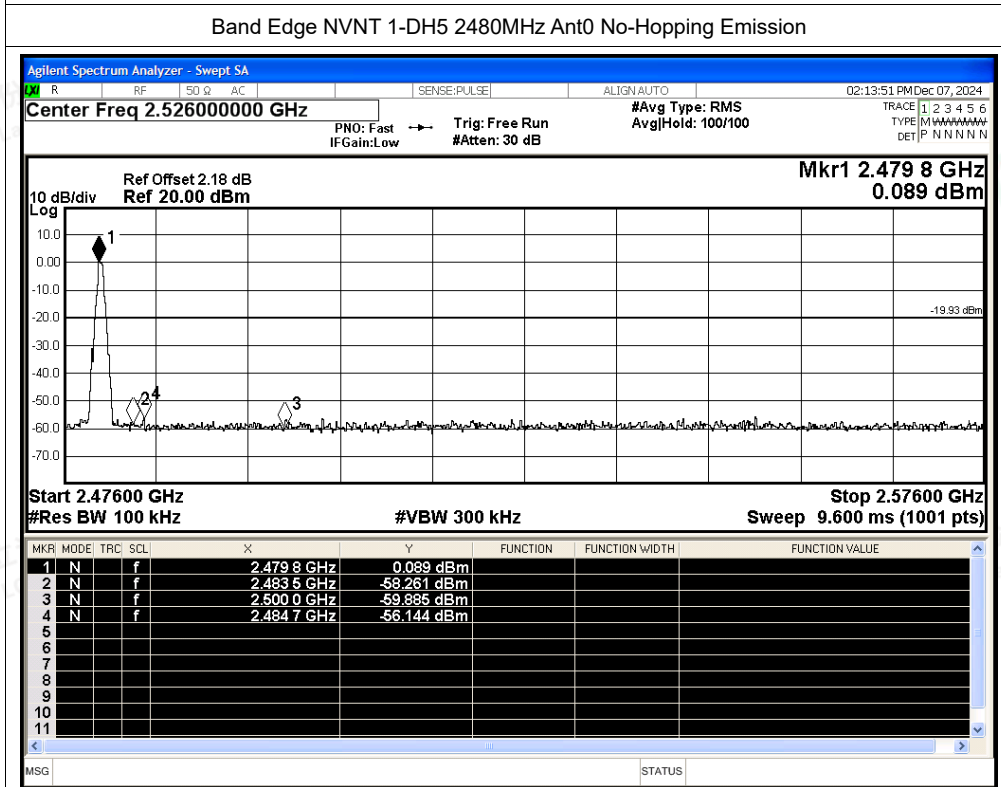
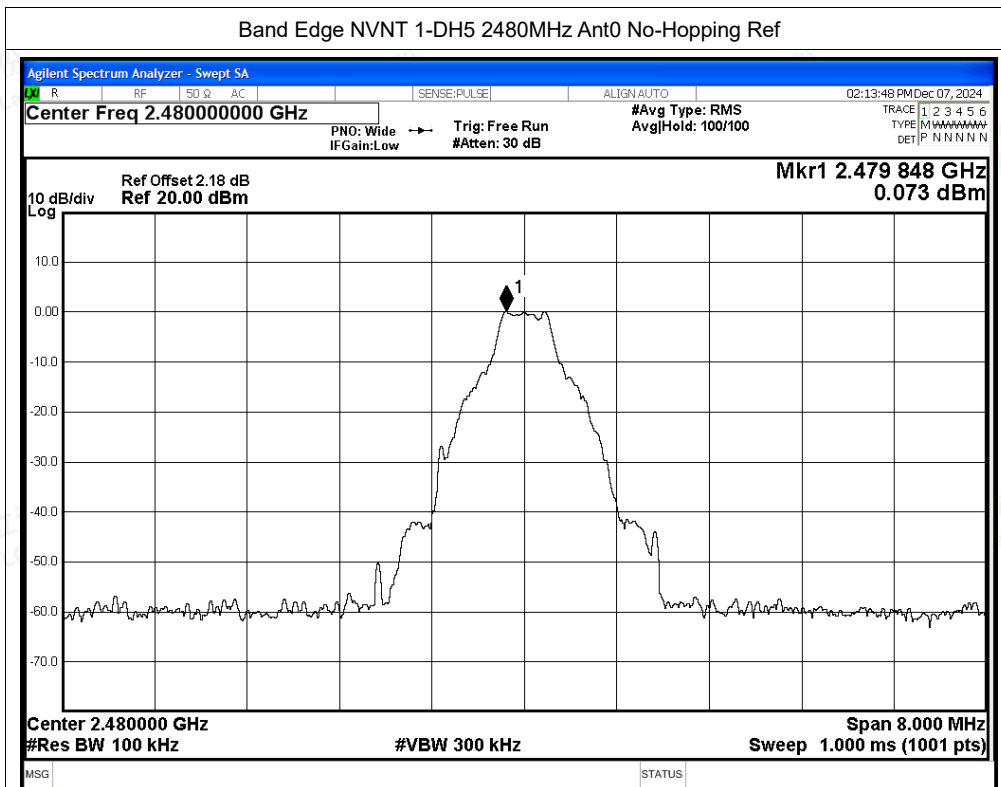
Test Graphs

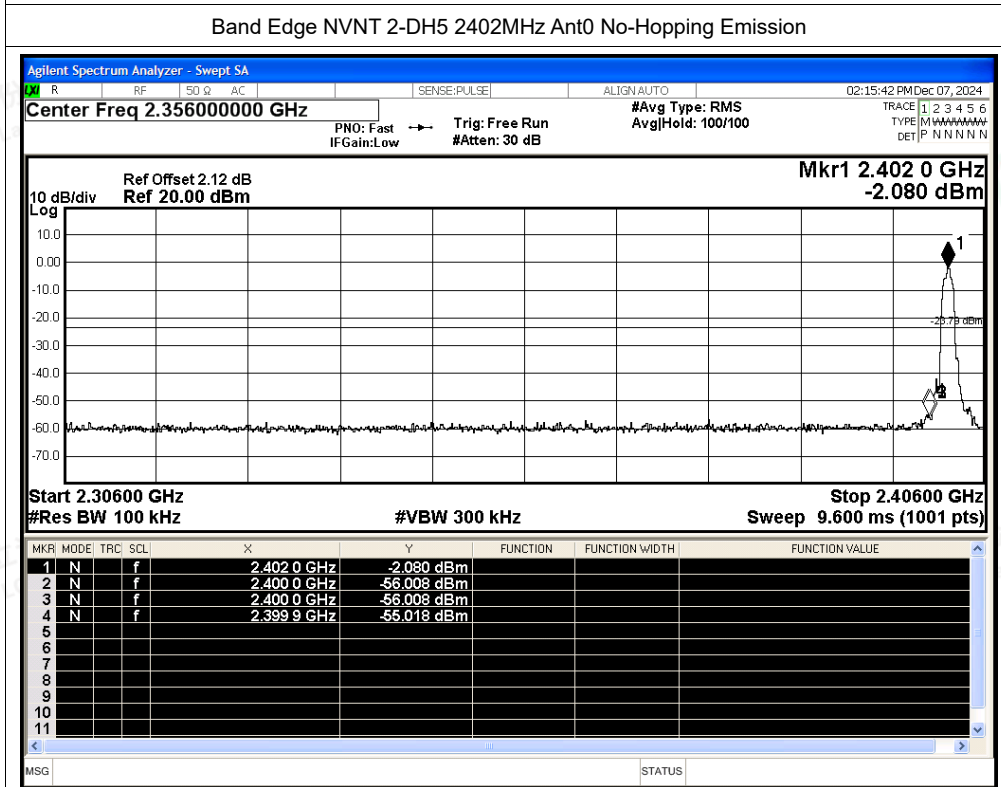
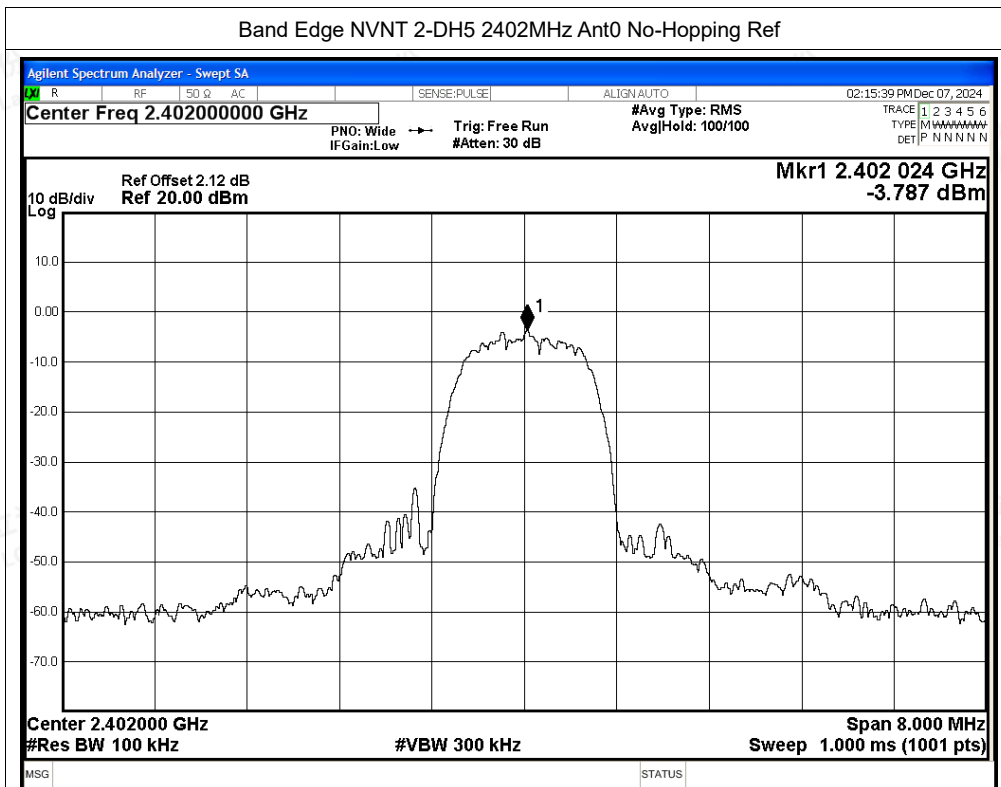
Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Ref

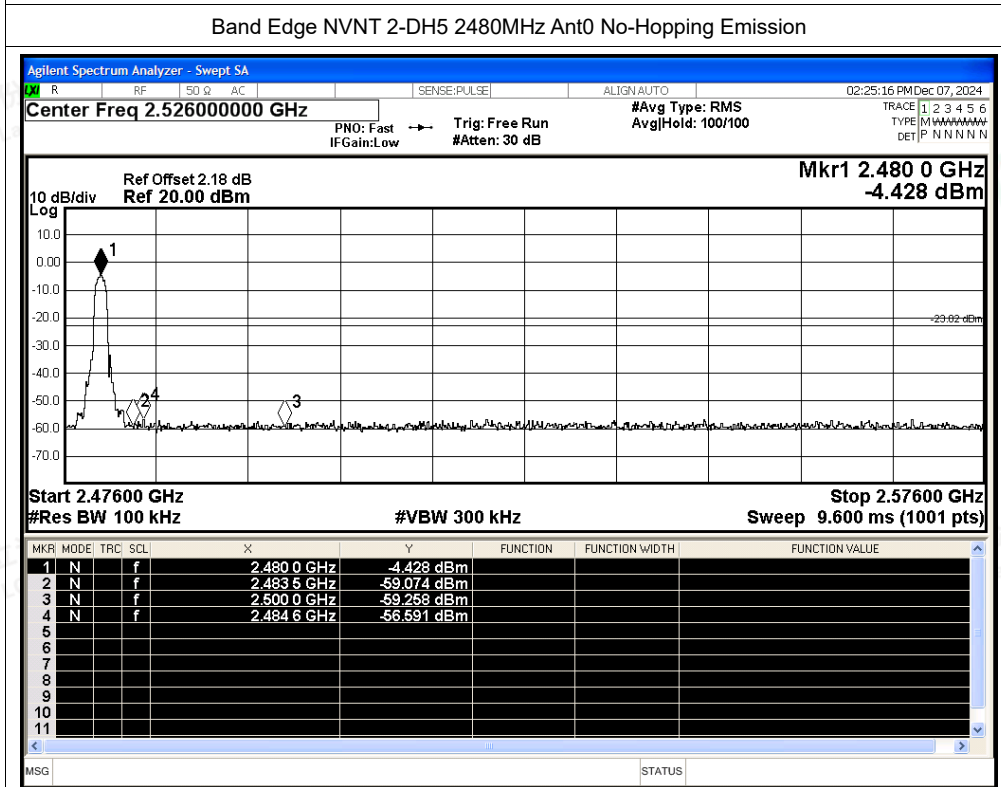
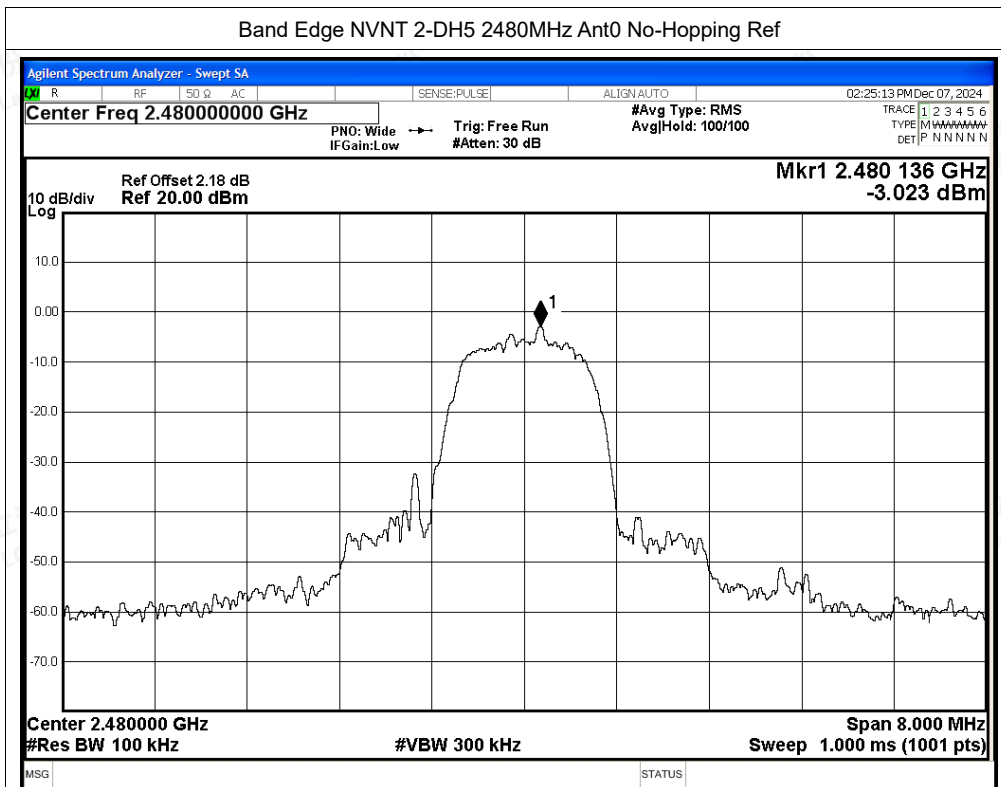


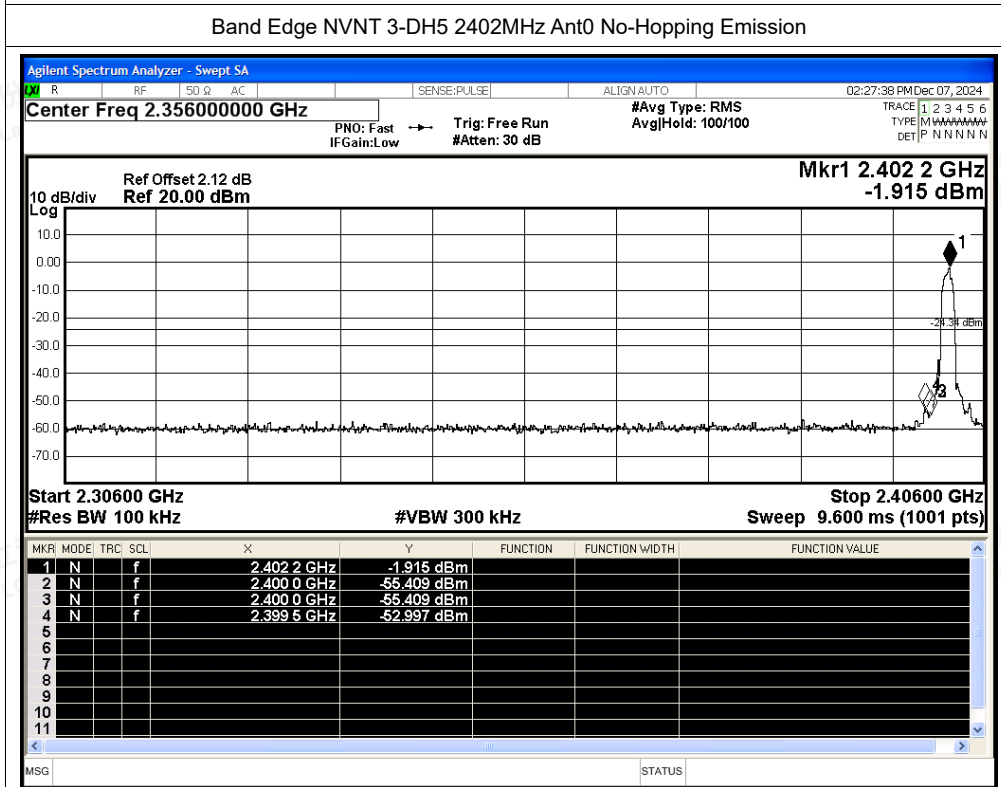
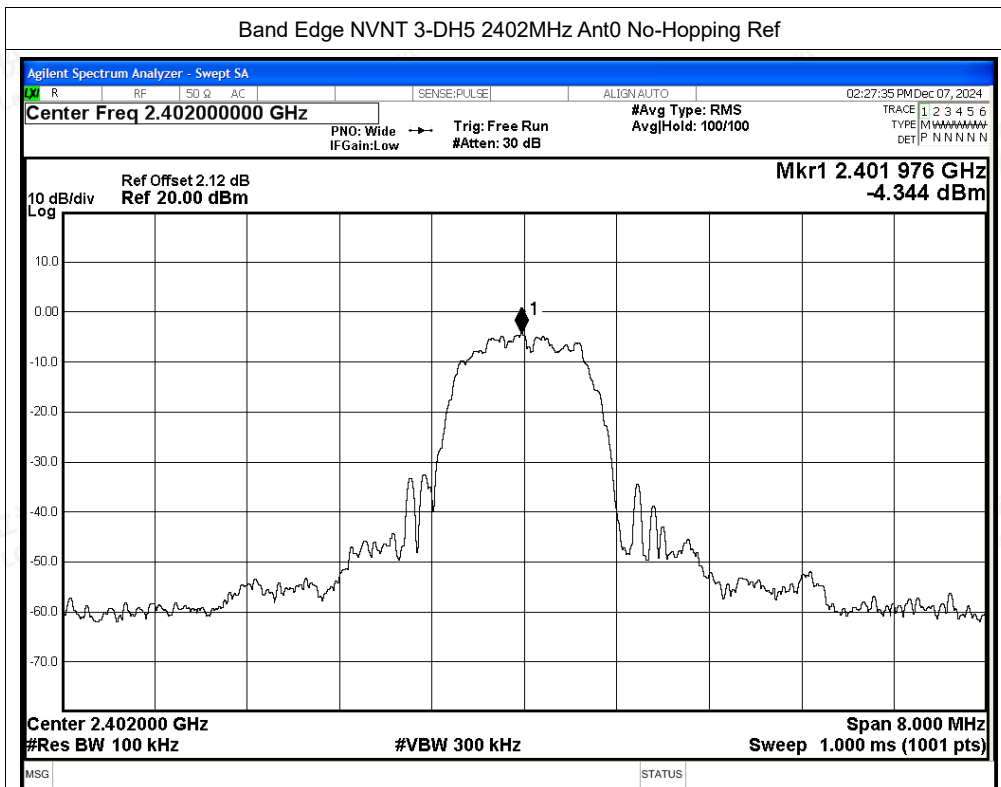
Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Emission

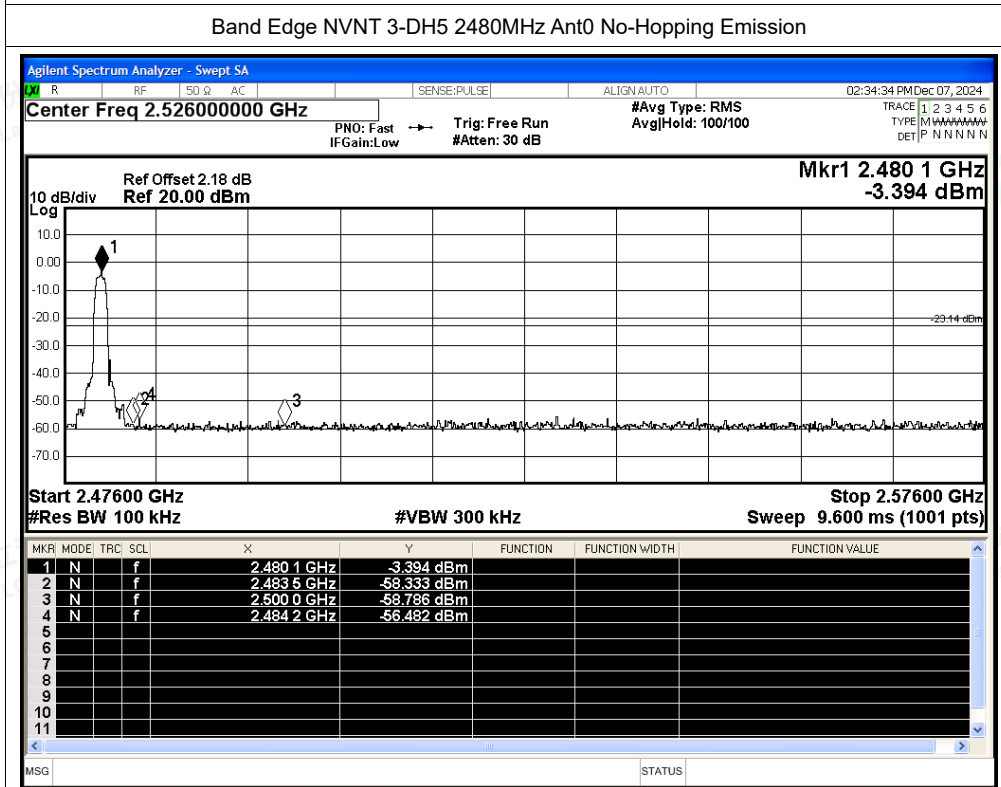
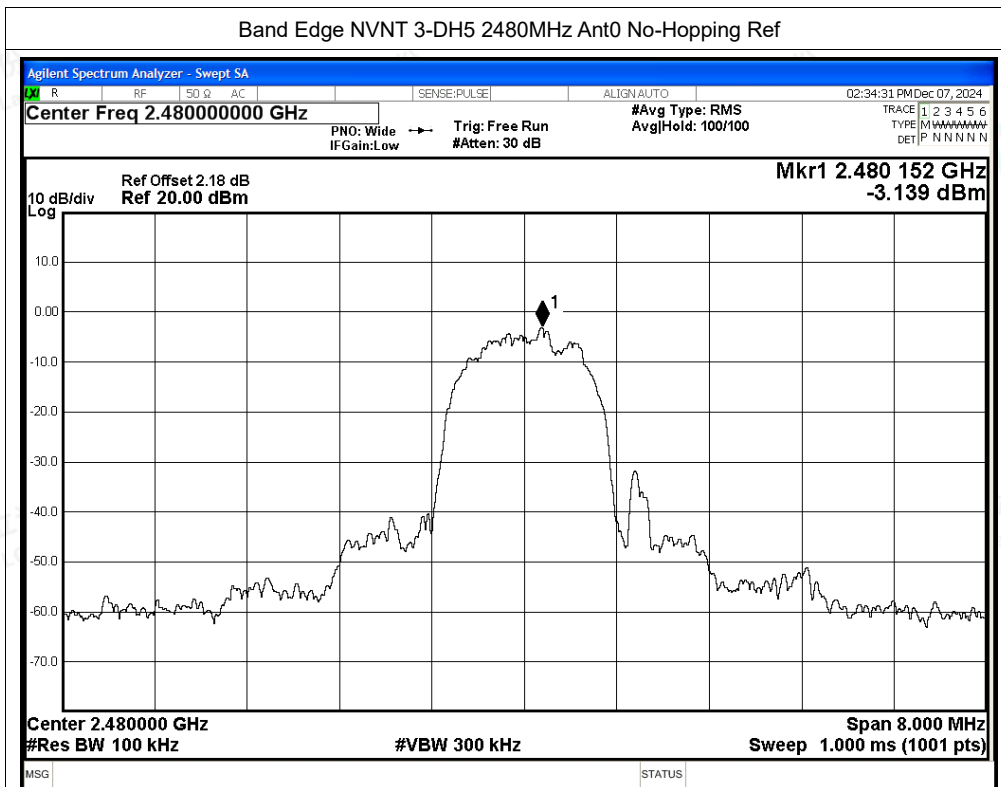














(Hopping)

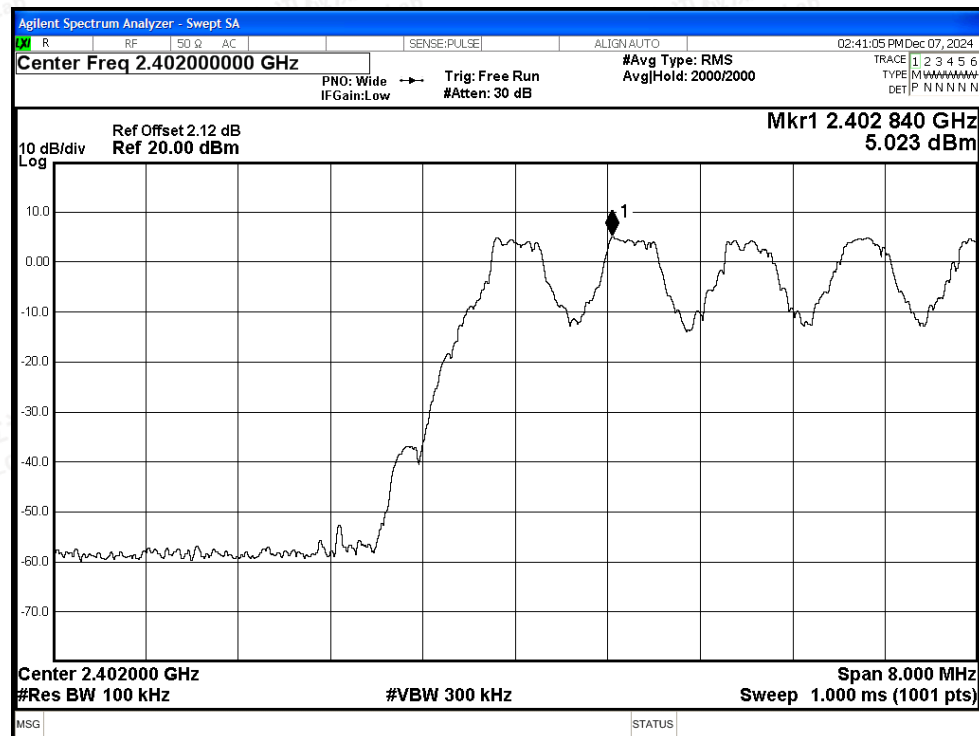
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	Hopping	-60.57	-20	Pass
NVNT	1-DH5	2480	Ant0	Hopping	-62	-20	Pass
NVNT	2-DH5	2402	Ant0	Hopping	-61.23	-20	Pass
NVNT	2-DH5	2480	Ant0	Hopping	-61	-20	Pass
NVNT	3-DH5	2402	Ant0	Hopping	-61.54	-20	Pass
NVNT	3-DH5	2480	Ant0	Hopping	-56	-20	Pass



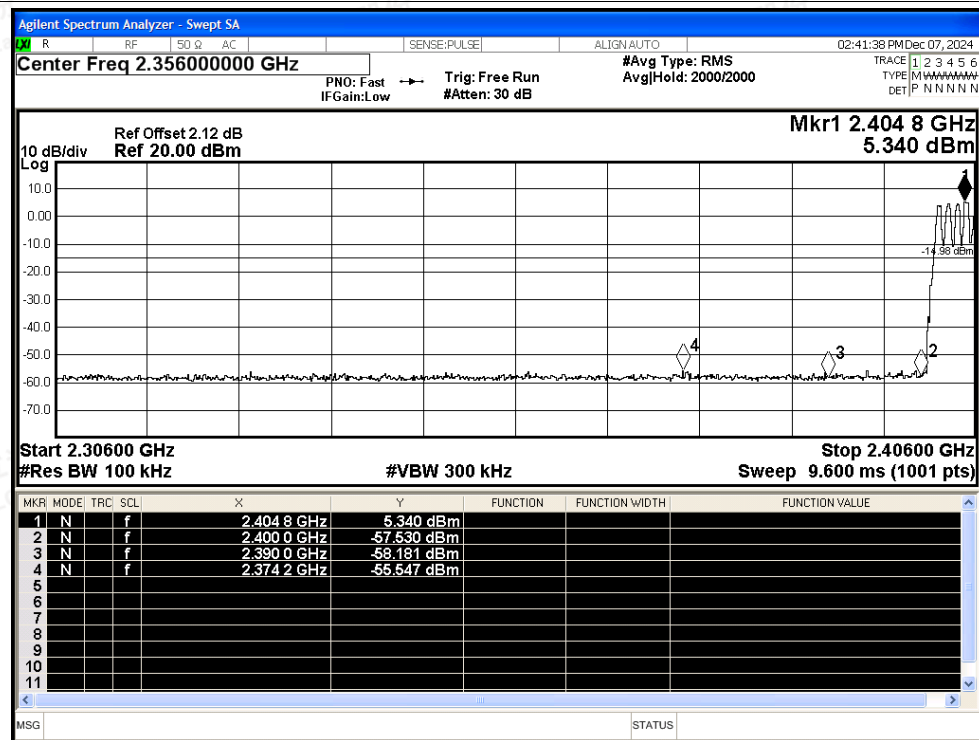


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Emission

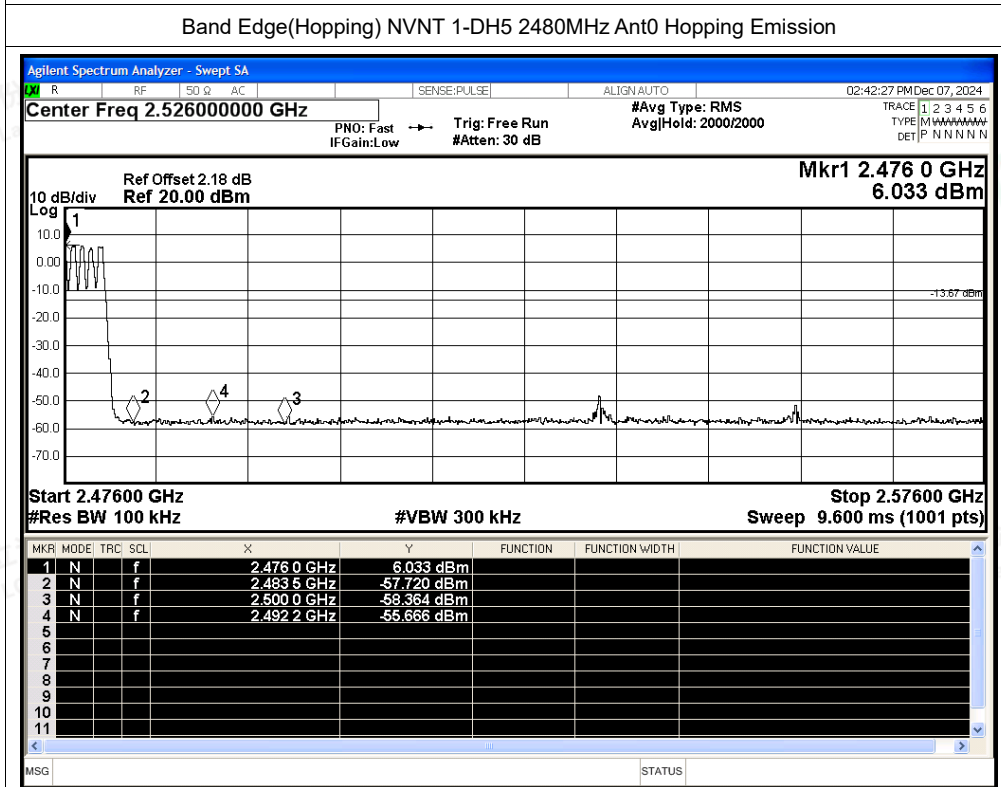
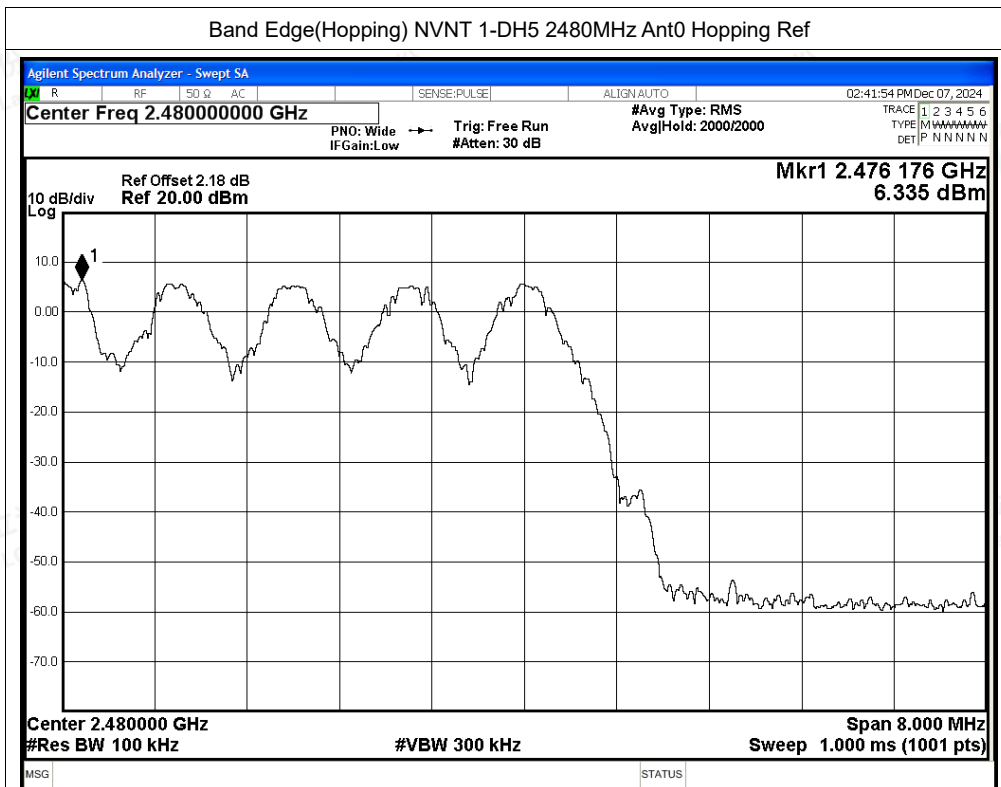


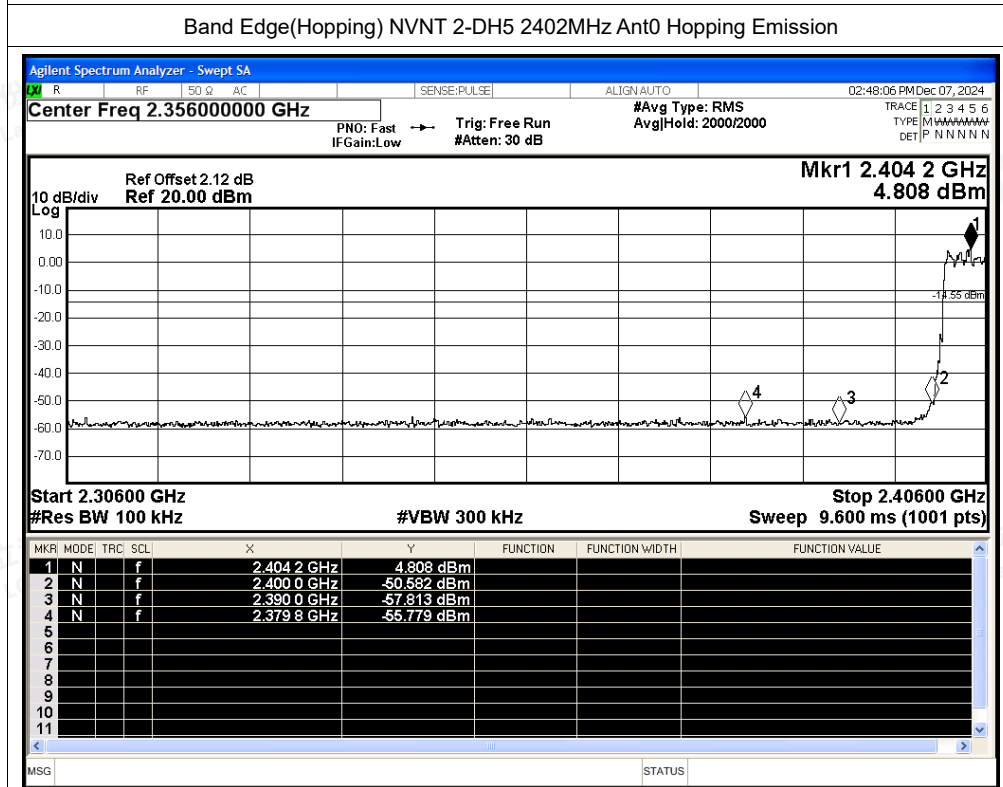
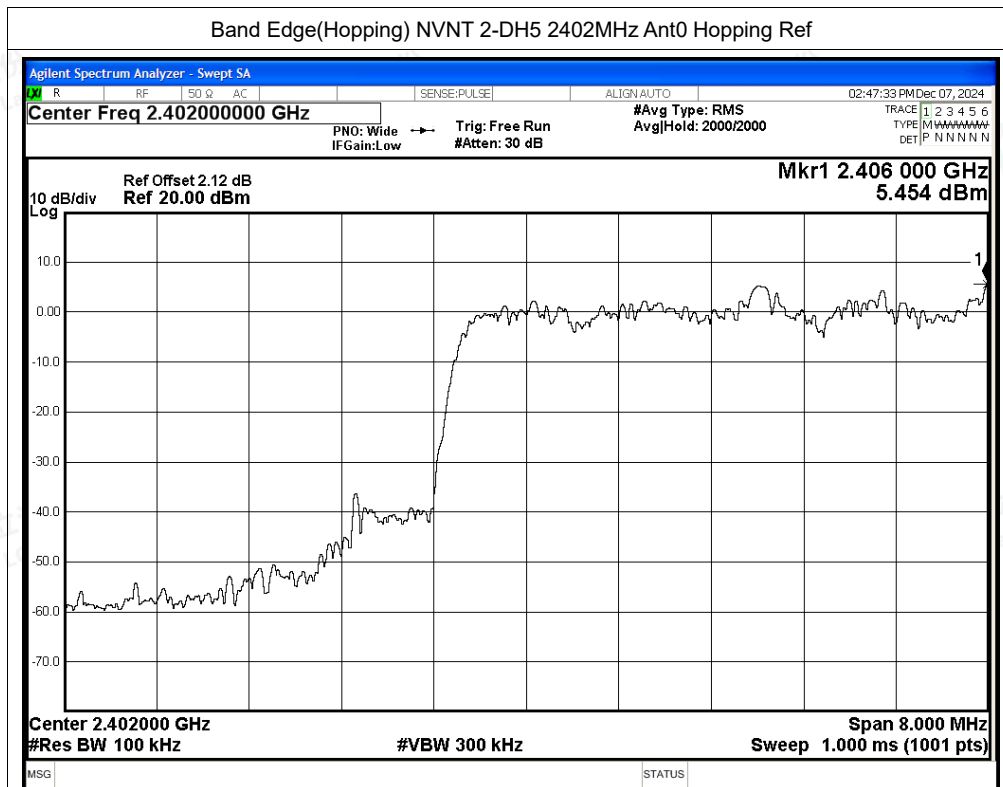
Shenzhen LCS Compliance Testing Laboratory Ltd.

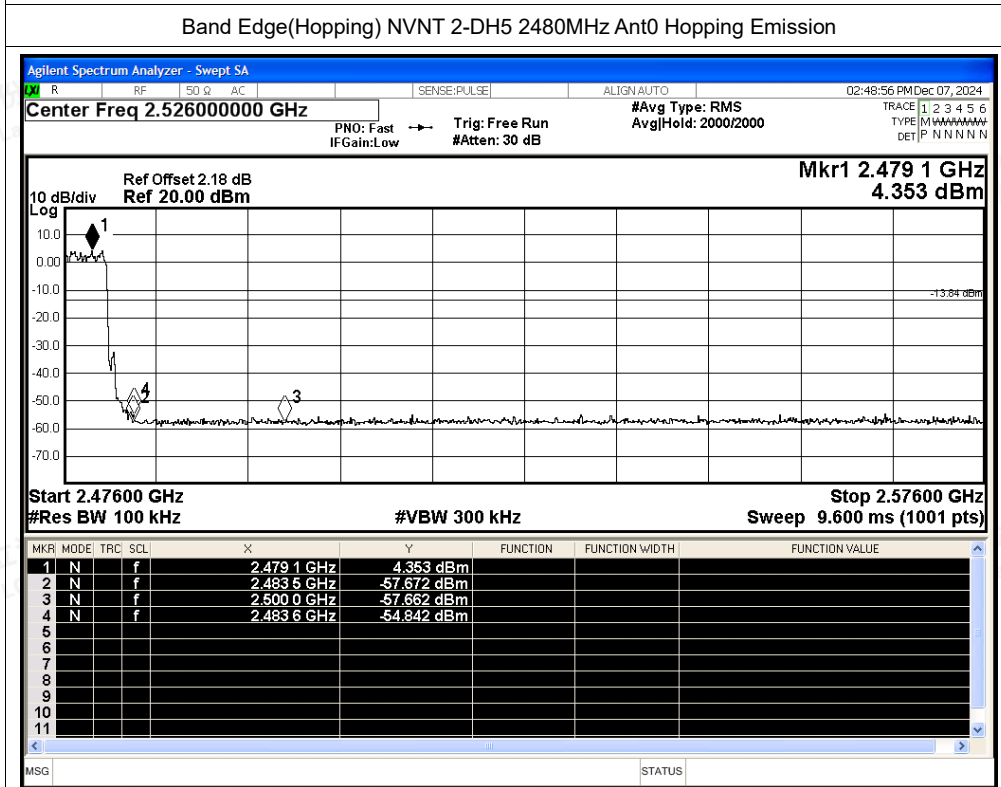
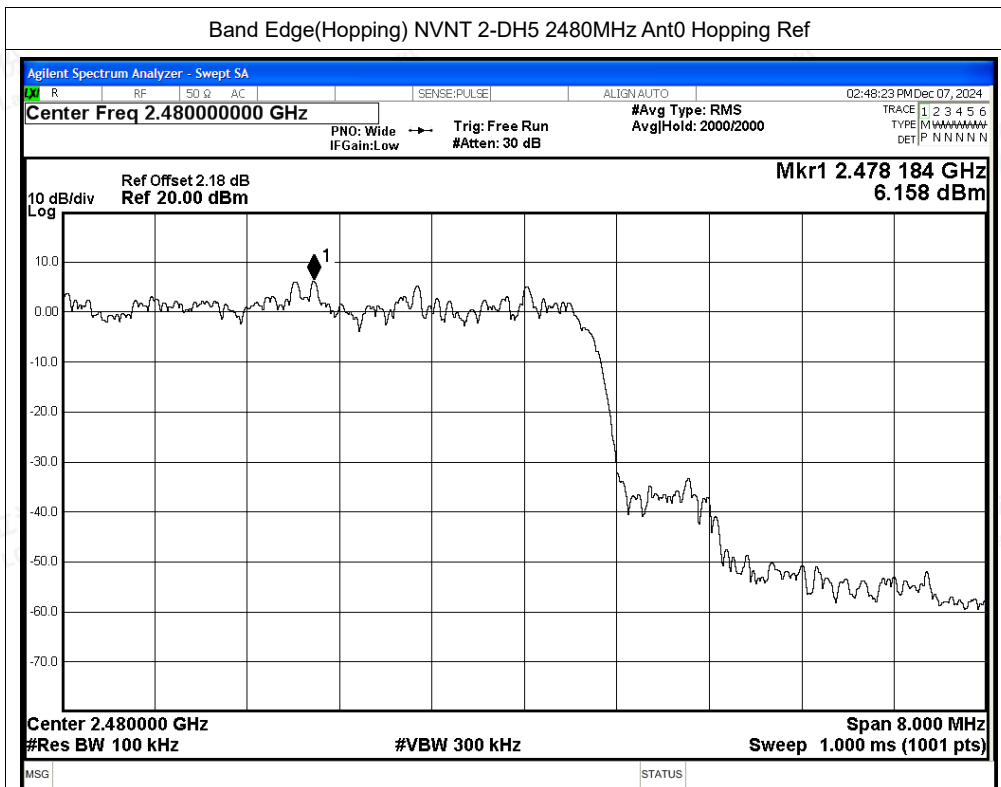
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

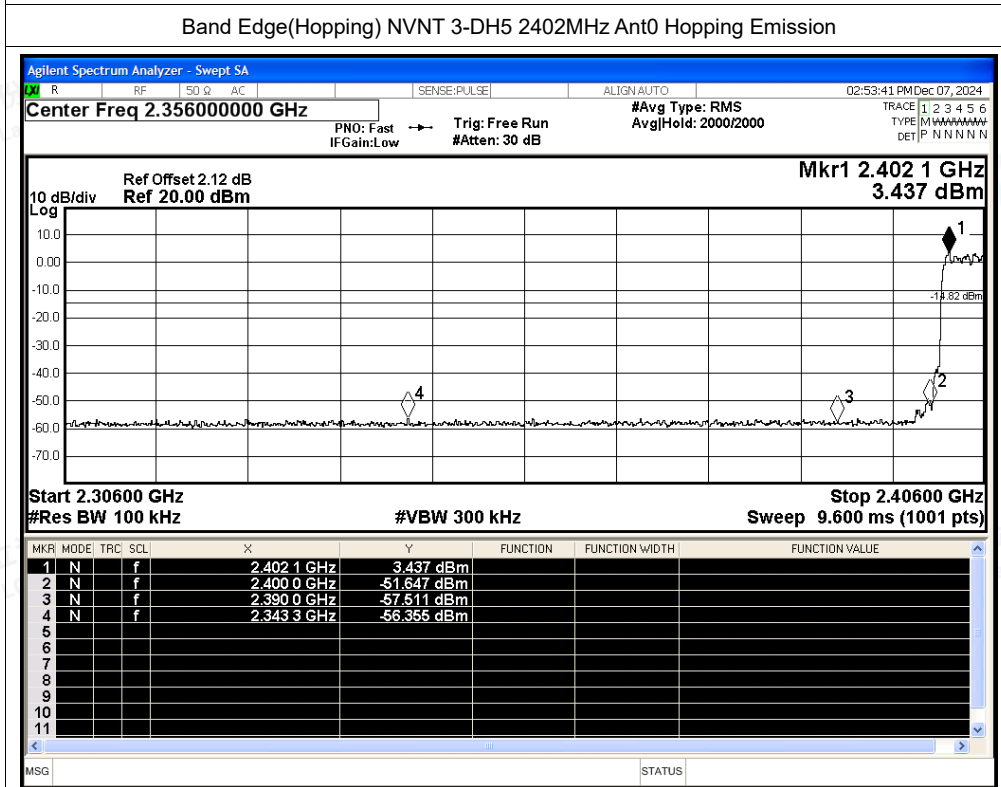
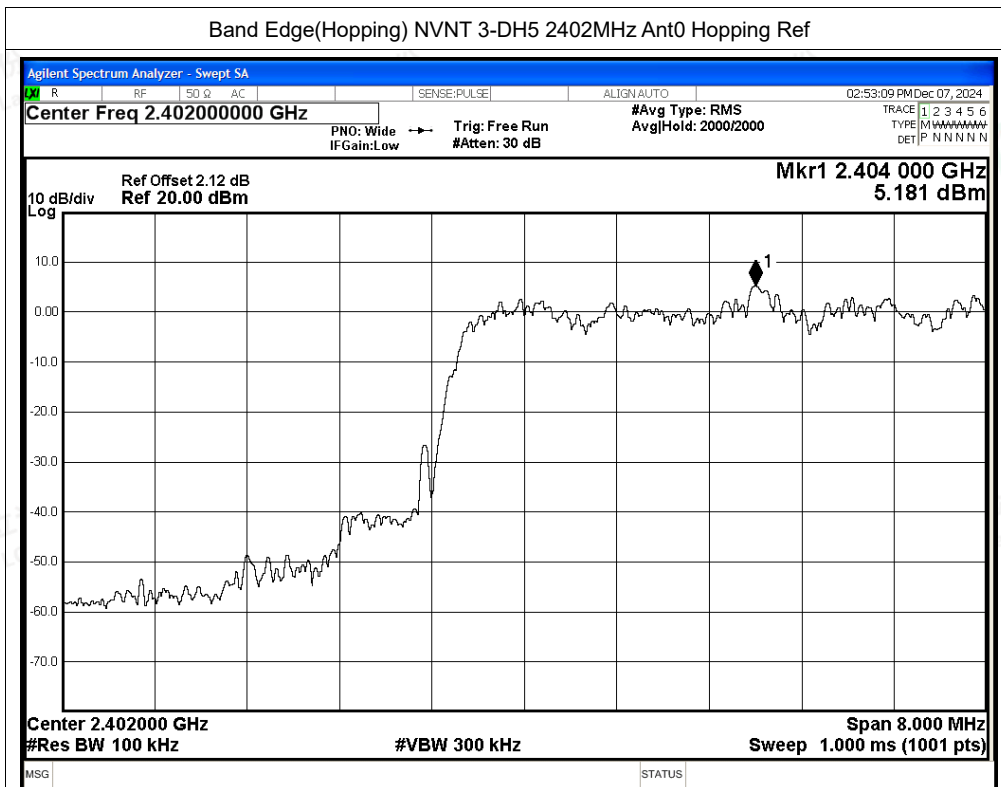
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

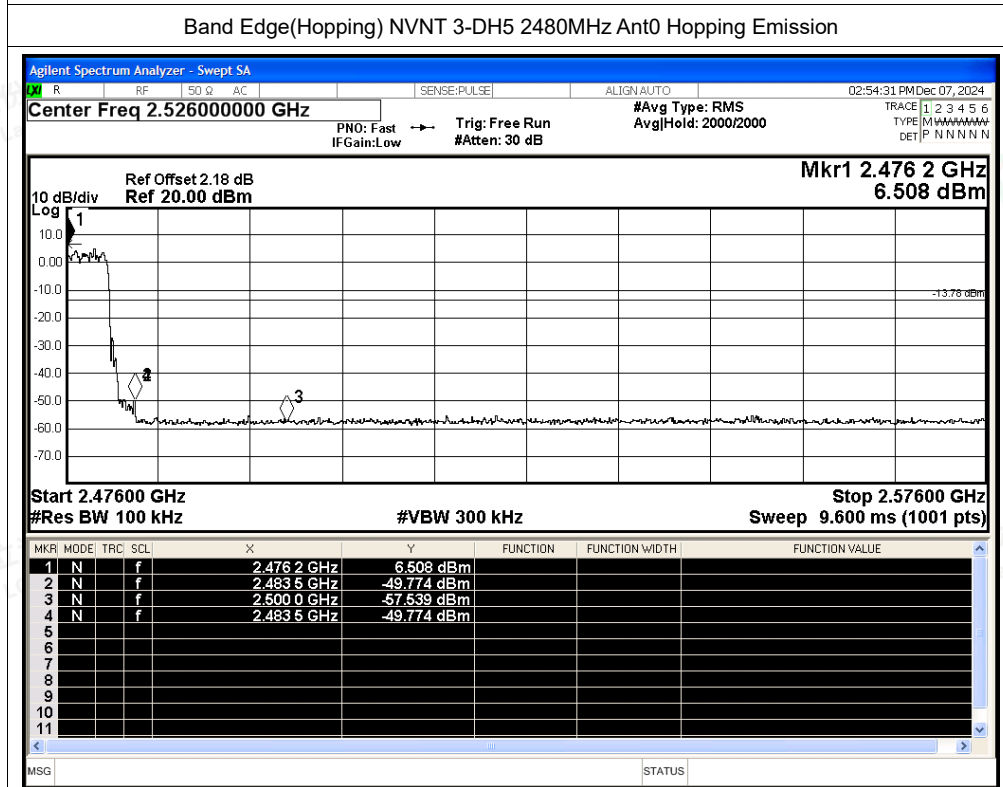
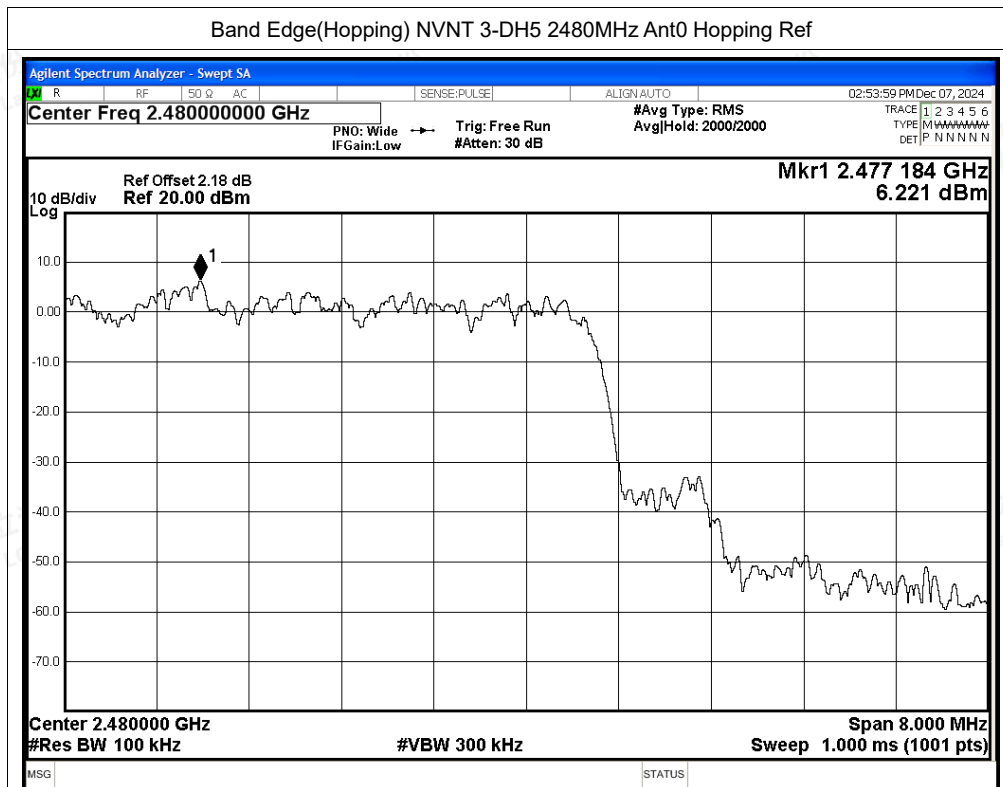
Scan code to check authenticity













A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	-54.79	-20	Pass
NVNT	1-DH5	2441	Ant0	-54.57	-20	Pass
NVNT	1-DH5	2480	Ant0	-54.43	-20	Pass
NVNT	2-DH5	2402	Ant0	-52.78	-20	Pass
NVNT	2-DH5	2441	Ant0	-53.81	-20	Pass
NVNT	2-DH5	2480	Ant0	-52.45	-20	Pass
NVNT	3-DH5	2402	Ant0	-53.61	-20	Pass
NVNT	3-DH5	2441	Ant0	-53.62	-20	Pass
NVNT	3-DH5	2480	Ant0	-52.6	-20	Pass

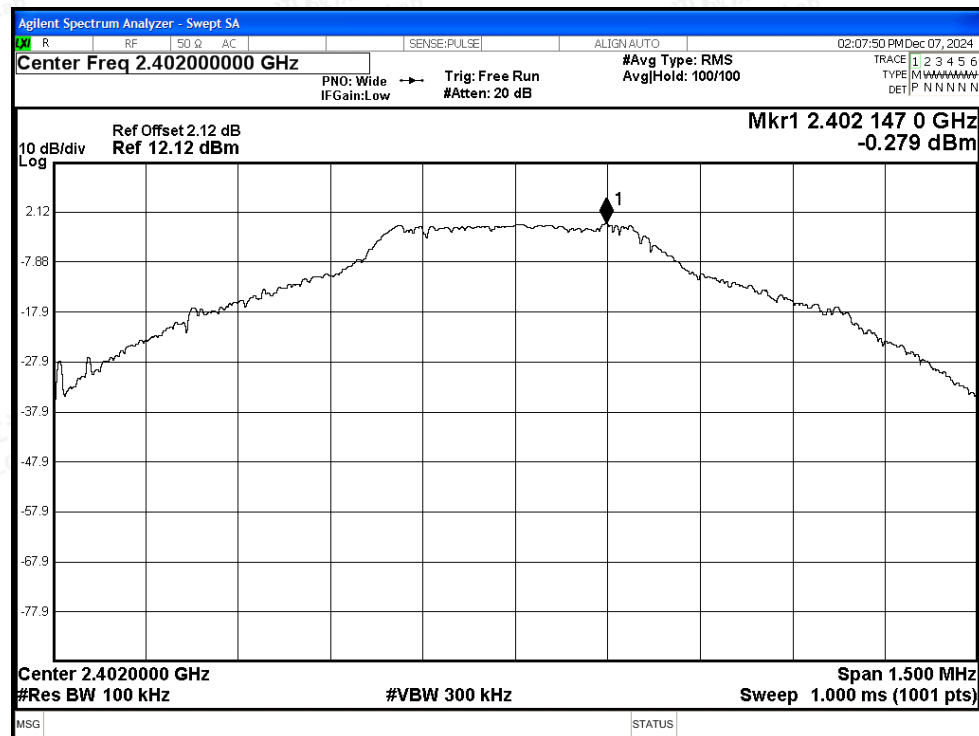


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

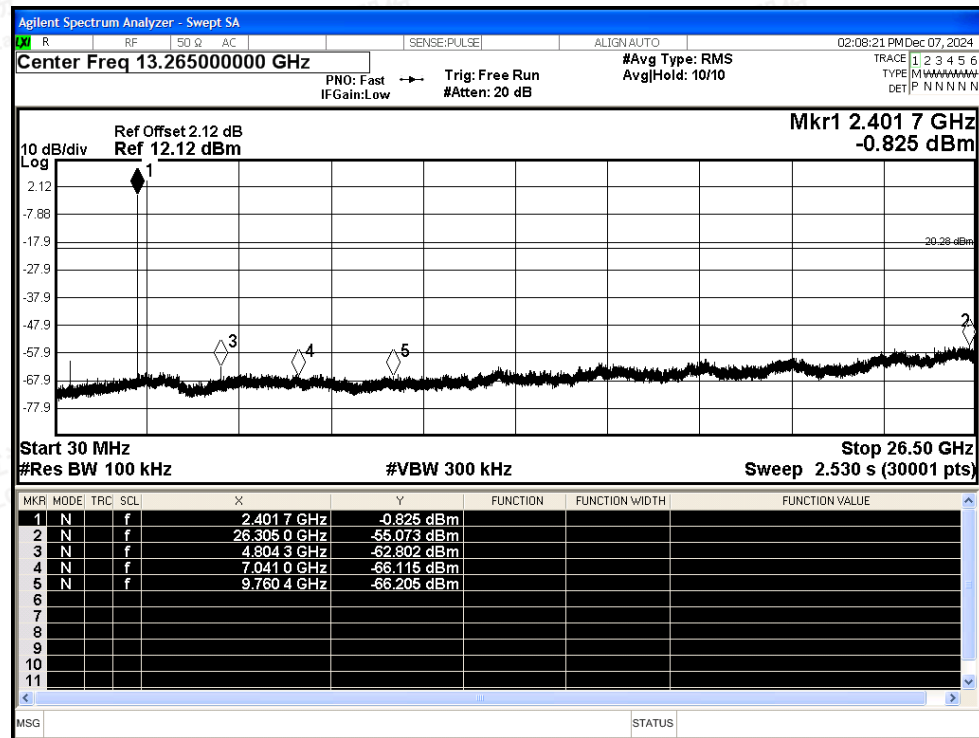


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Ref

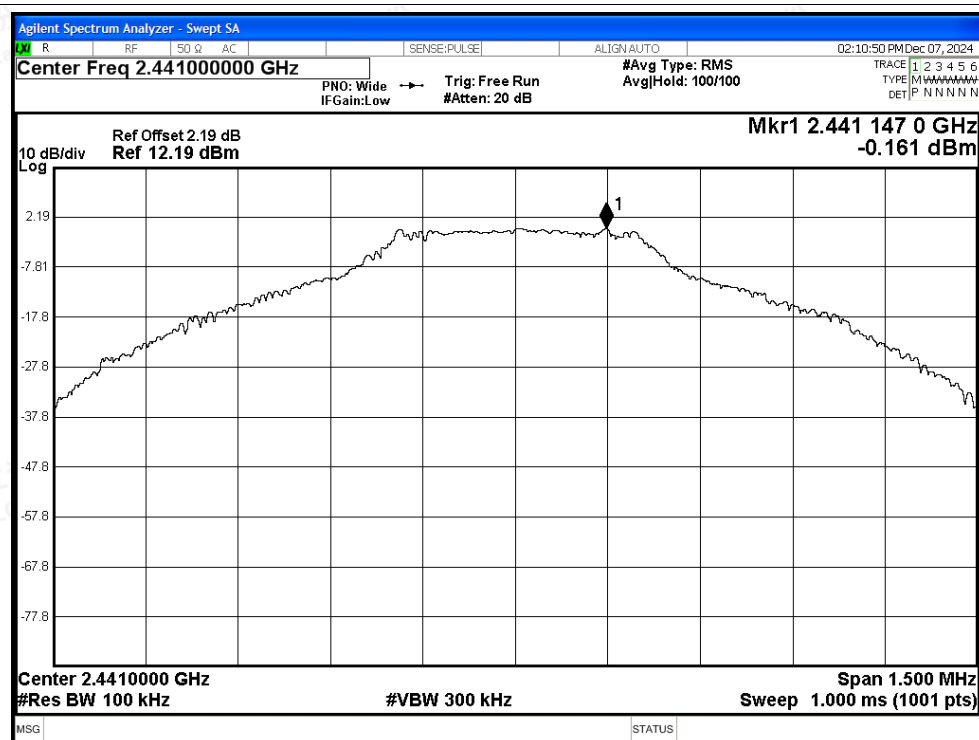


Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Emission

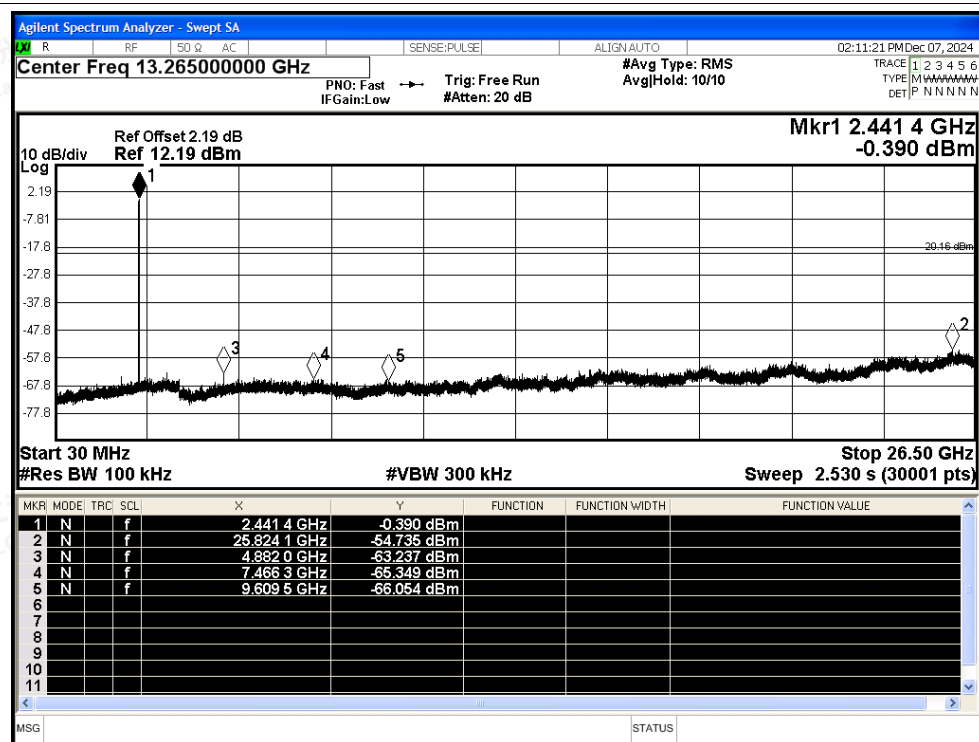




Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Ref

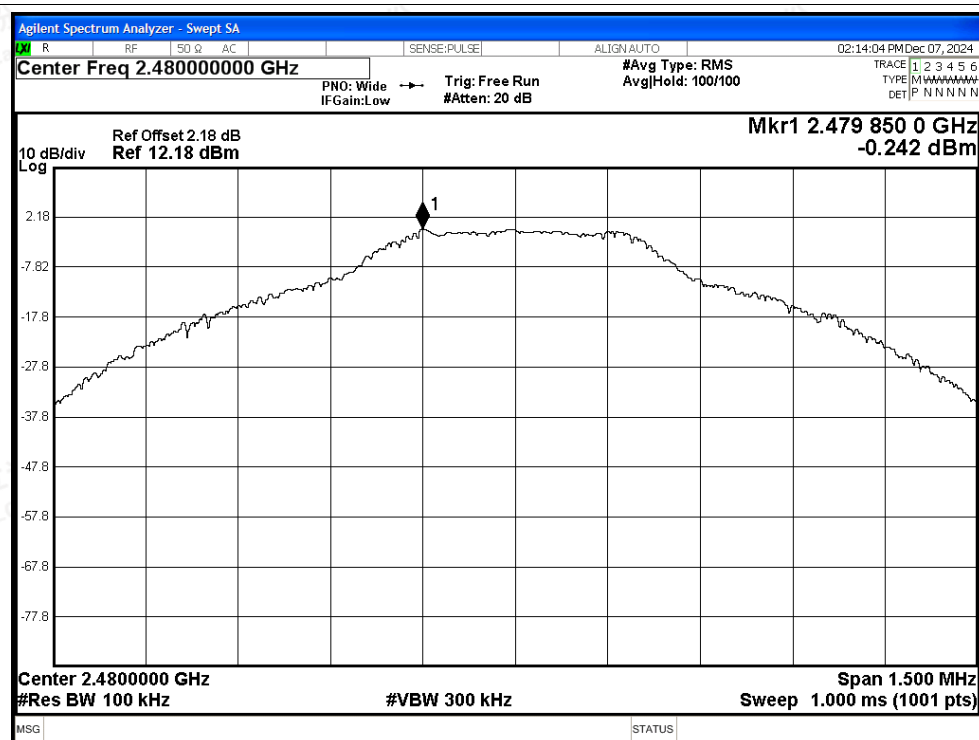


Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Emission

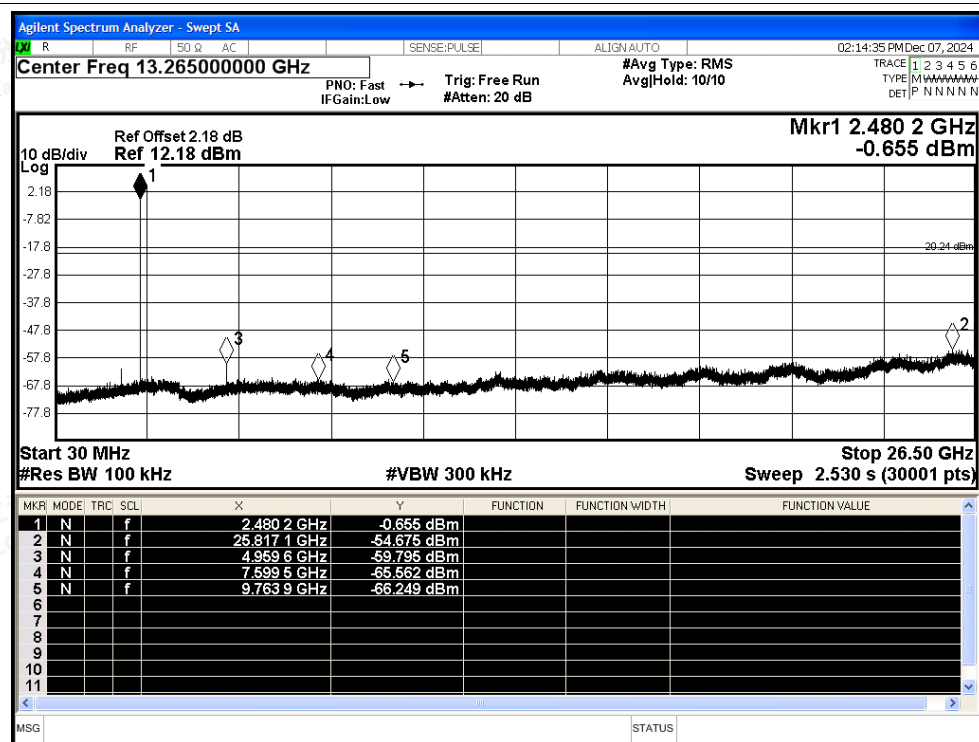




Tx. Spurious NVNT 1-DH5 2480MHz Ant0 Ref

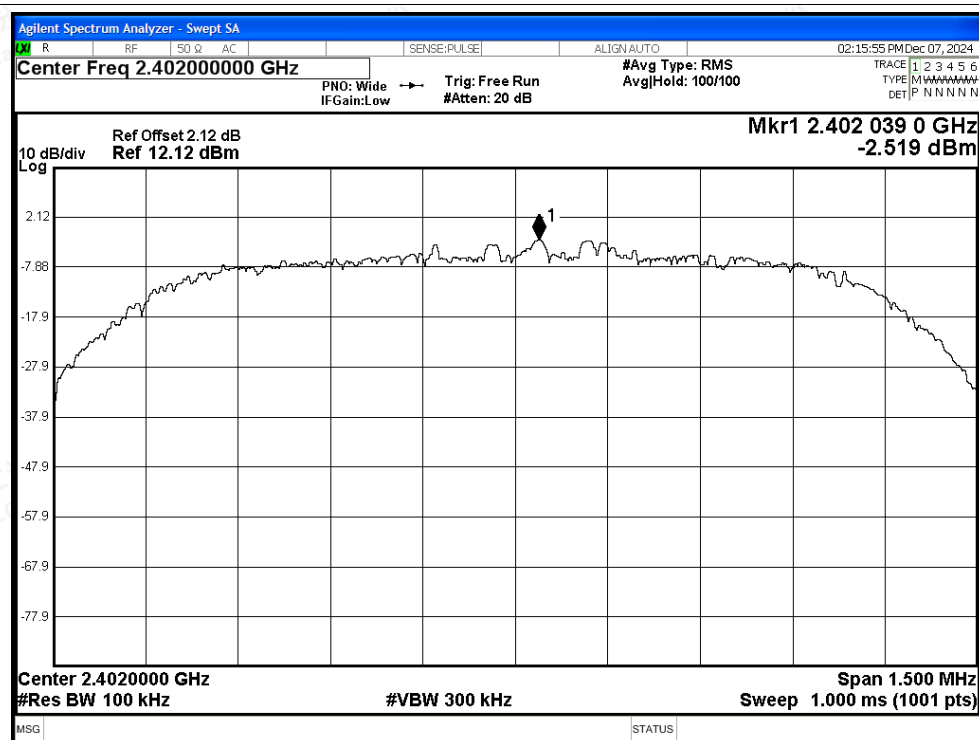


Tx. Spurious NVNT 1-DH5 2480MHz Ant0 Emission

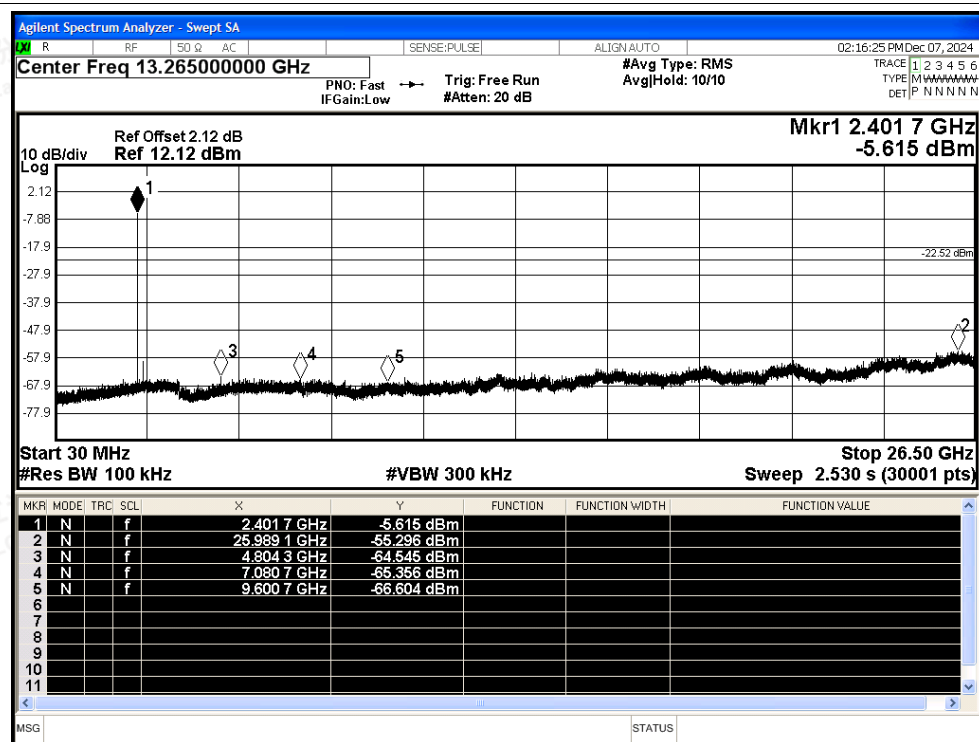




Tx. Spurious NVNT 2-DH5 2402MHz Ant0 Ref

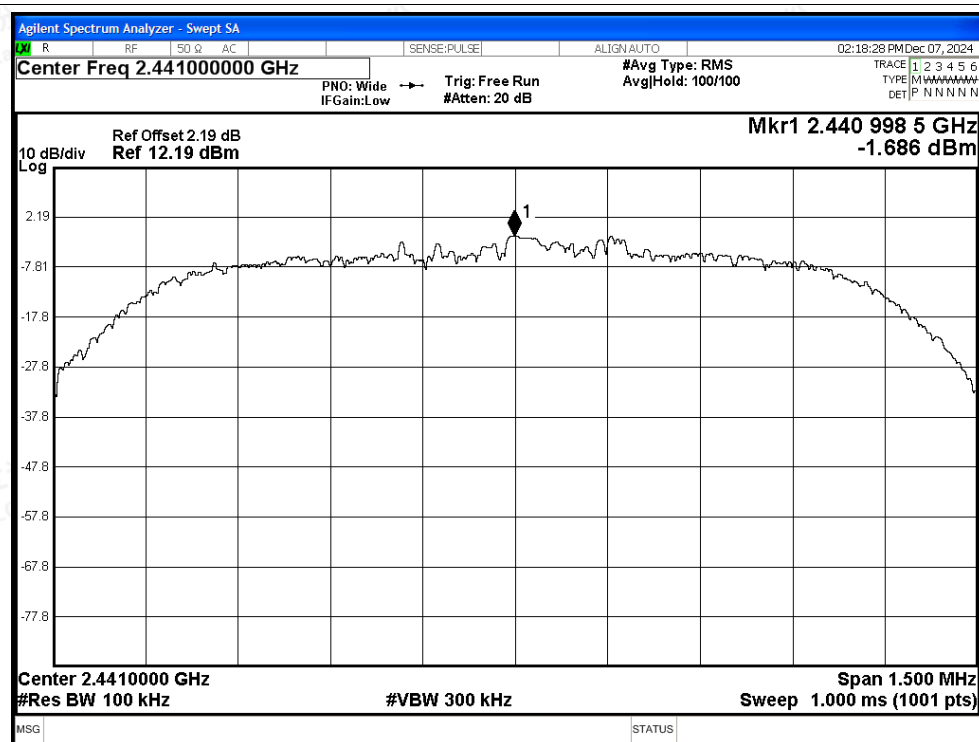


Tx. Spurious NVNT 2-DH5 2402MHz Ant0 Emission

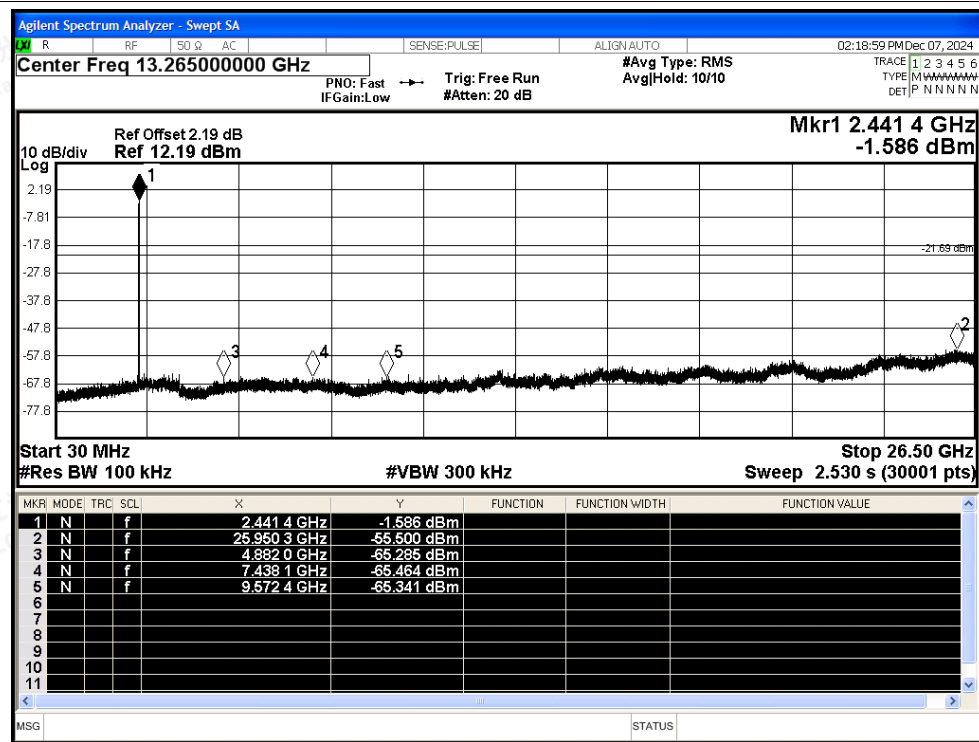




Tx. Spurious NVNT 2-DH5 2441MHz Ant0 Ref

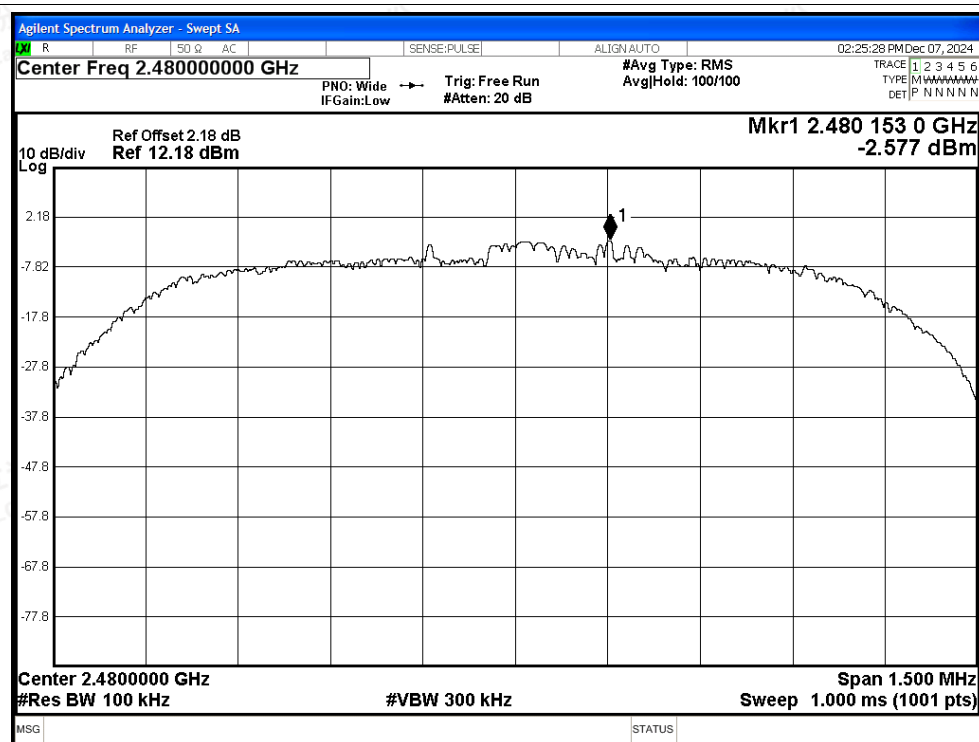


Tx. Spurious NVNT 2-DH5 2441MHz Ant0 Emission

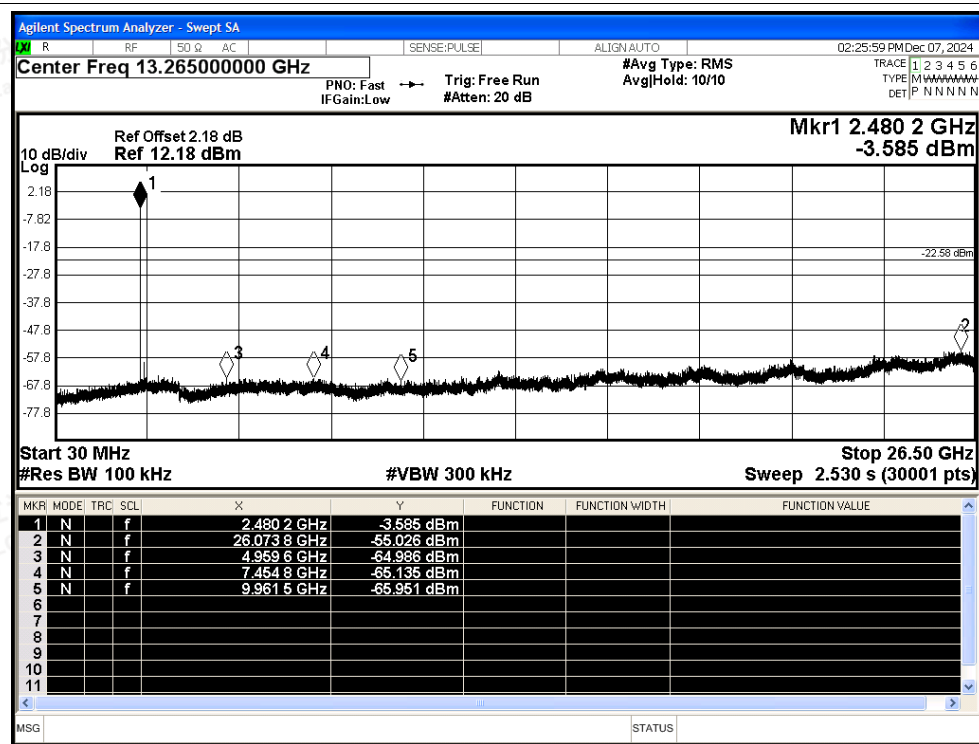




Tx. Spurious NVNT 2-DH5 2480MHz Ant0 Ref

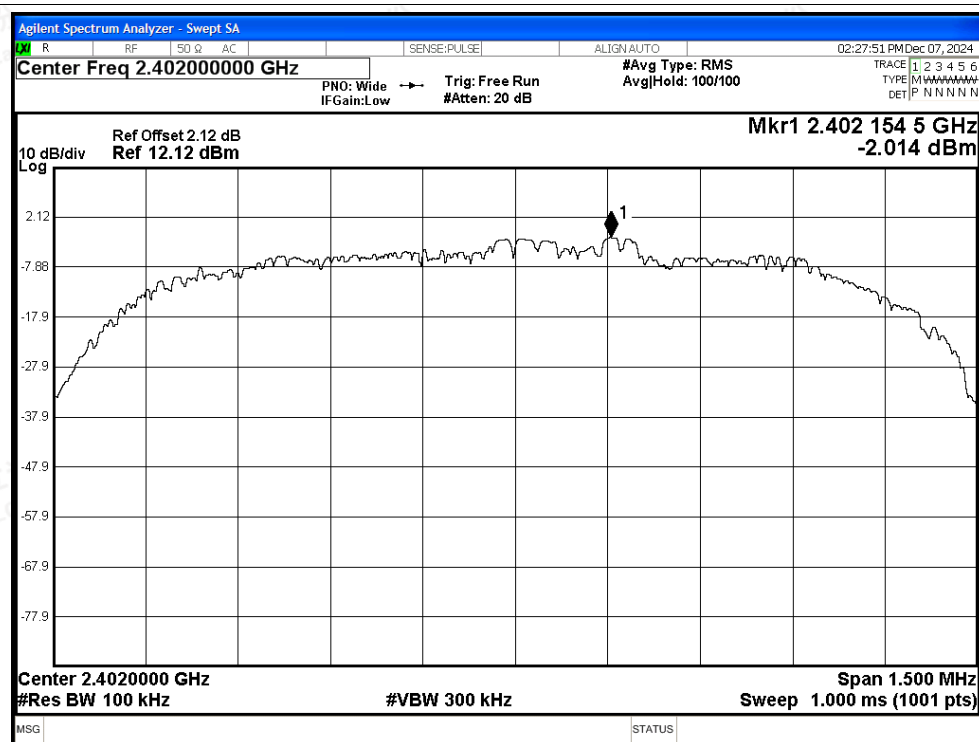


Tx. Spurious NVNT 2-DH5 2480MHz Ant0 Emission

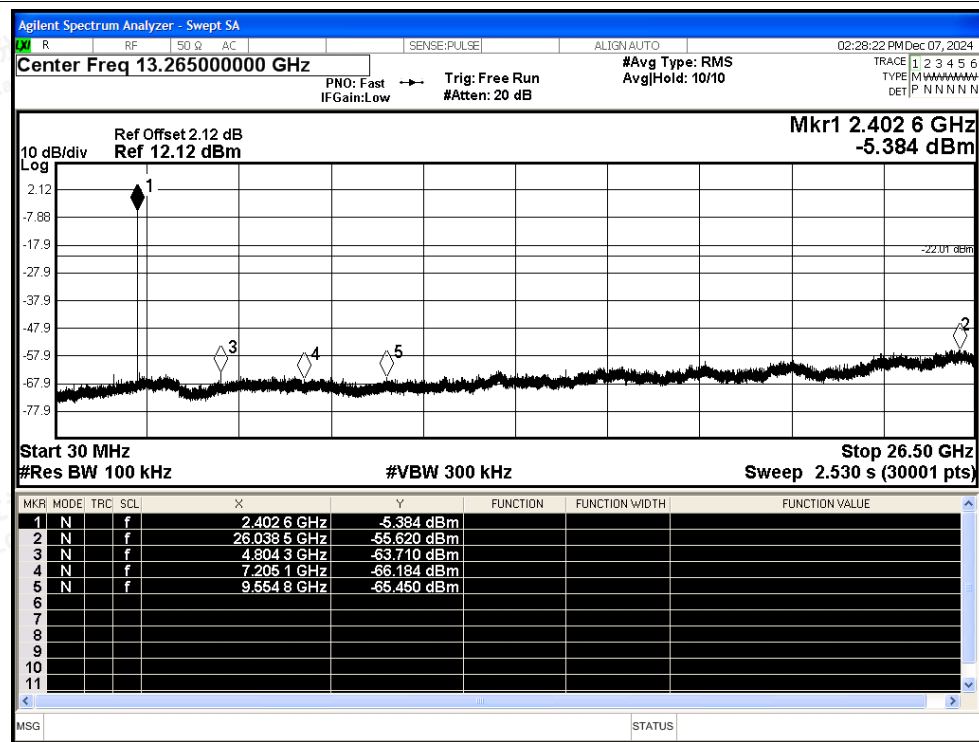




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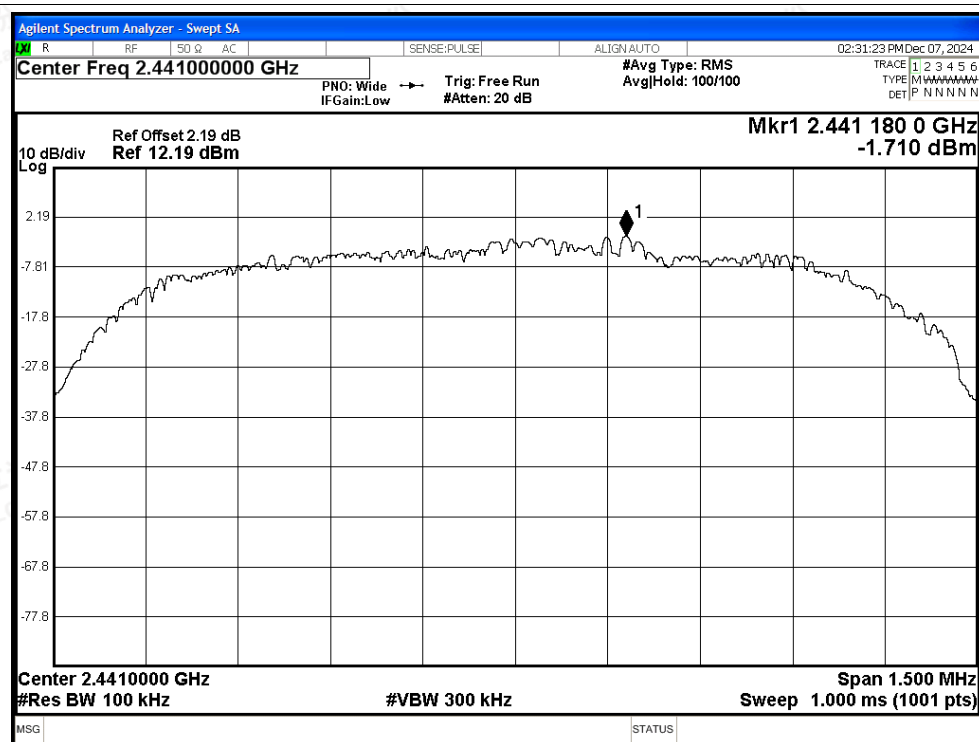


Tx. Spurious NVNT 3-DH5 2402MHz Ant0 Emission

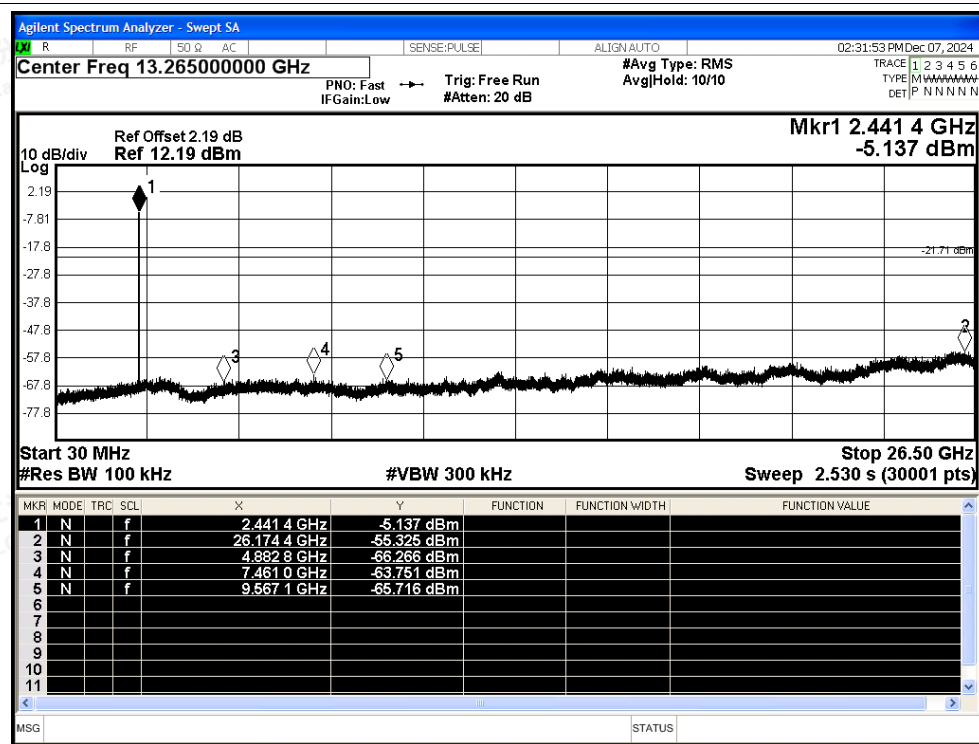




Tx. Spurious NVNT 3-DH5 2441MHz Ant0 Ref

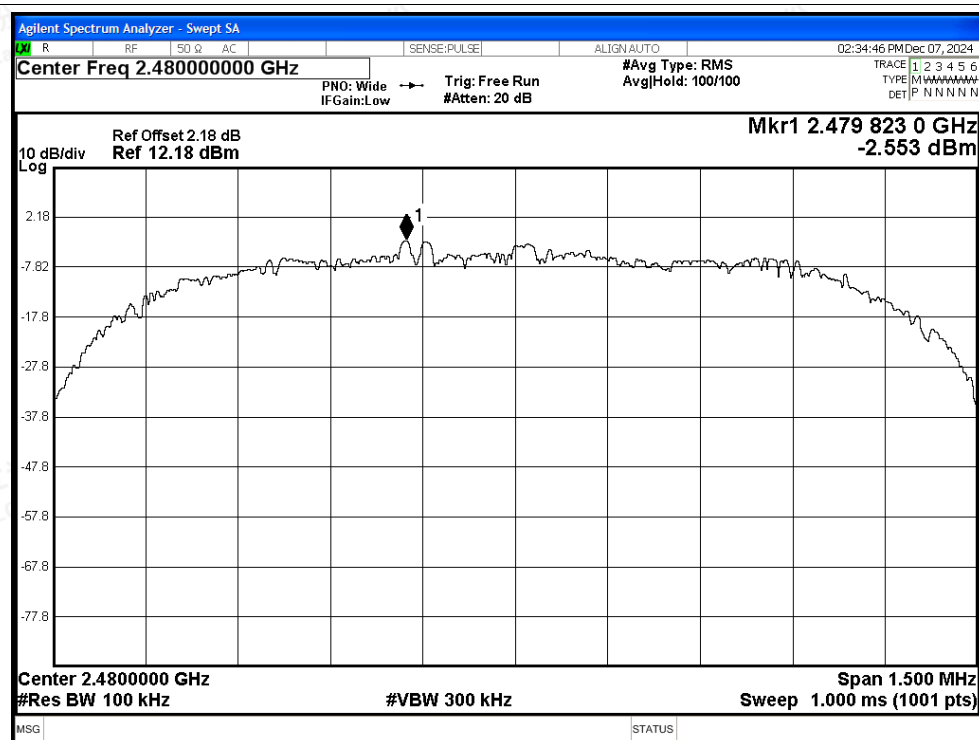


Tx. Spurious NVNT 3-DH5 2441MHz Ant0 Emission

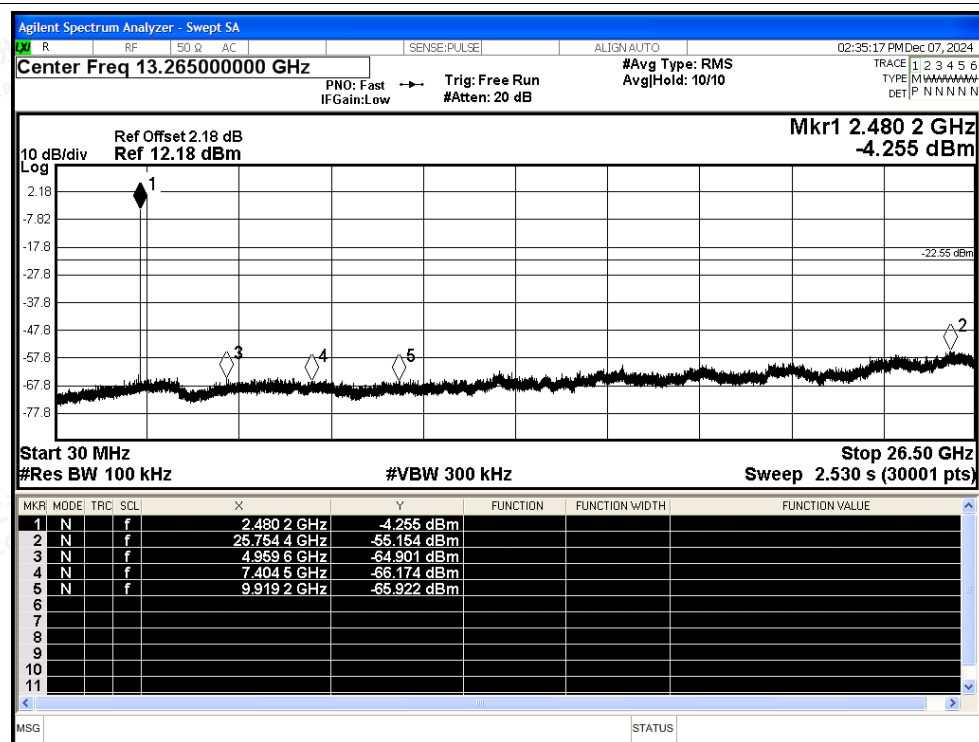




Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Emission





A.8 Duty Cycle

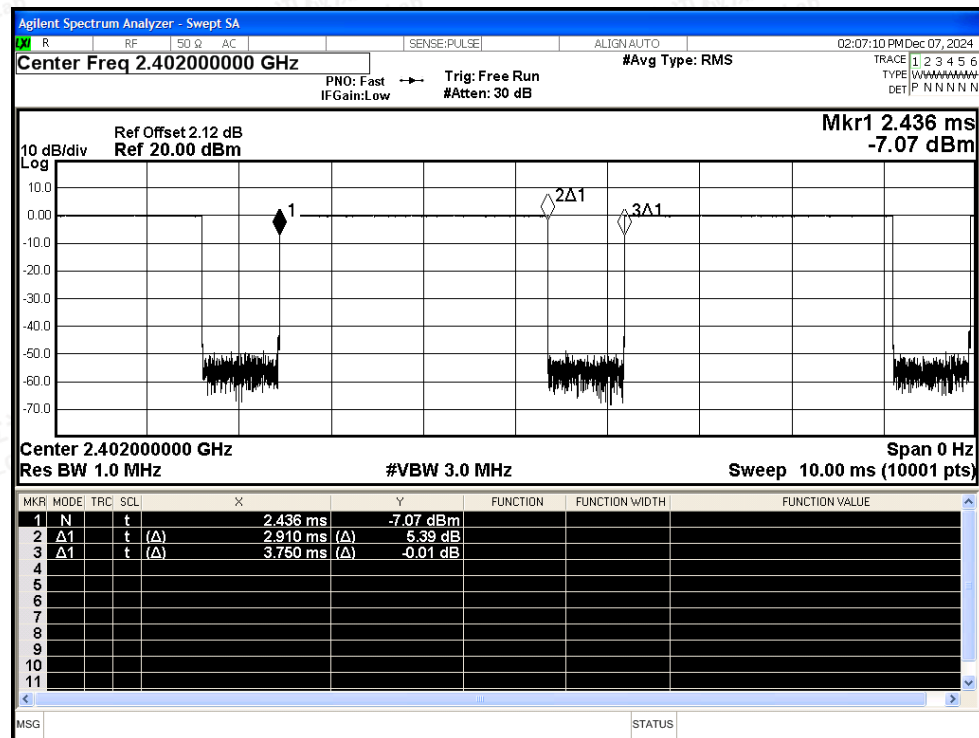
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant0	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant0	77.63	1.1	0.34
NVNT	1-DH5	2480	Ant0	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant0	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant0	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant0	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant0	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant0	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant0	77.28	1.12	0.35



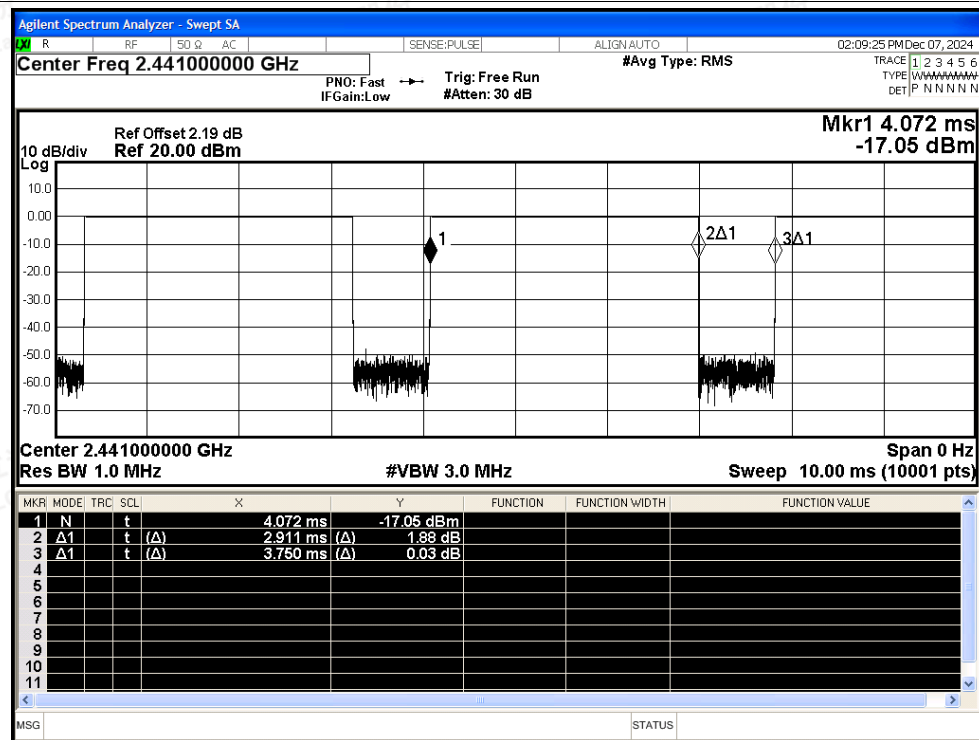


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant0



Duty Cycle NVNT 1-DH5 2441MHz Ant0



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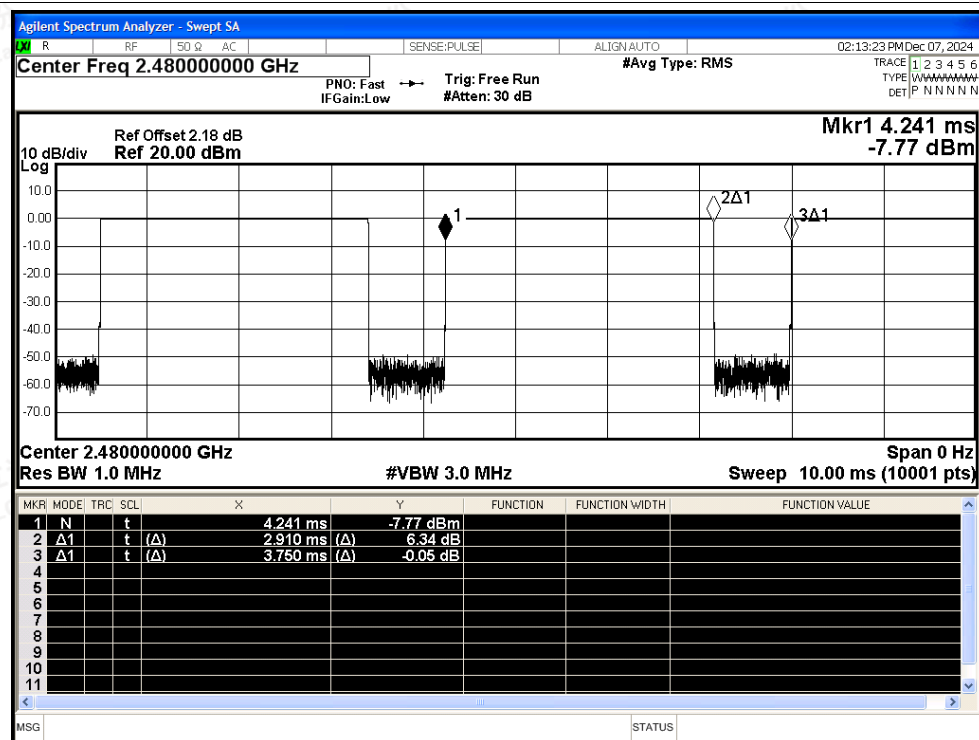
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

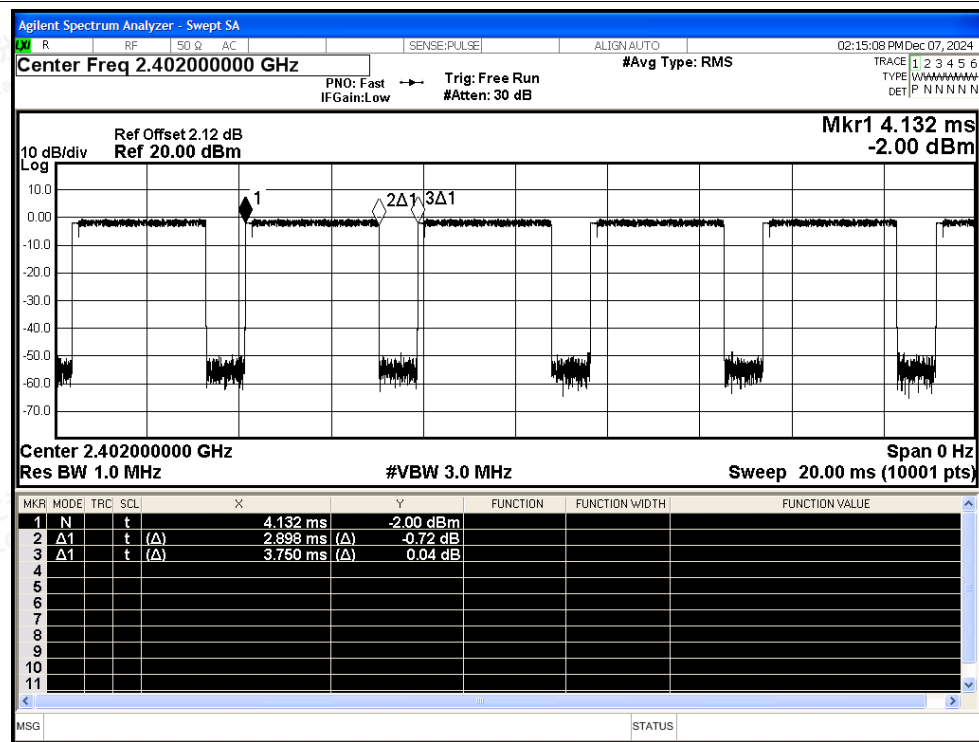
Scan code to check authenticity

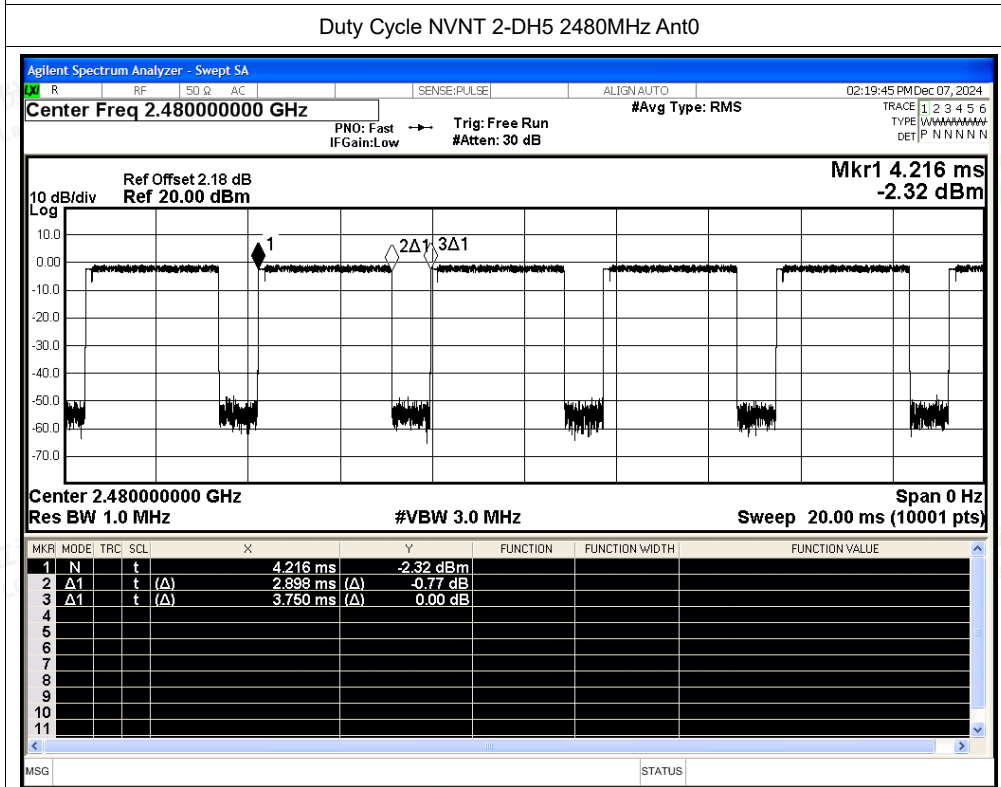
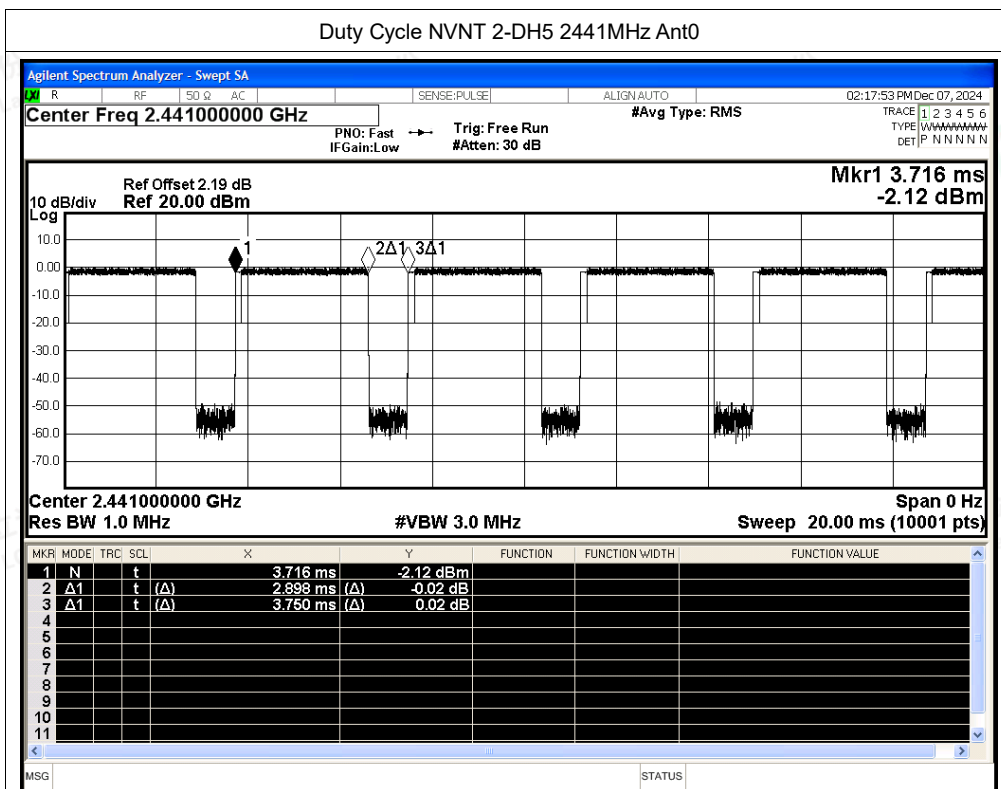


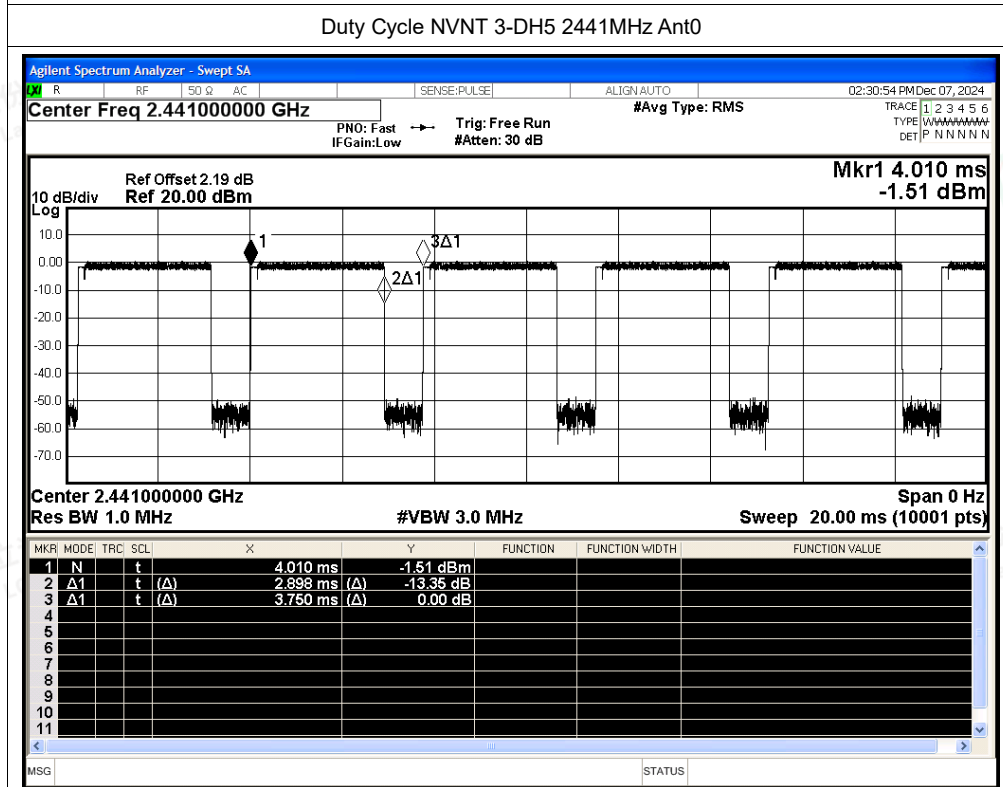
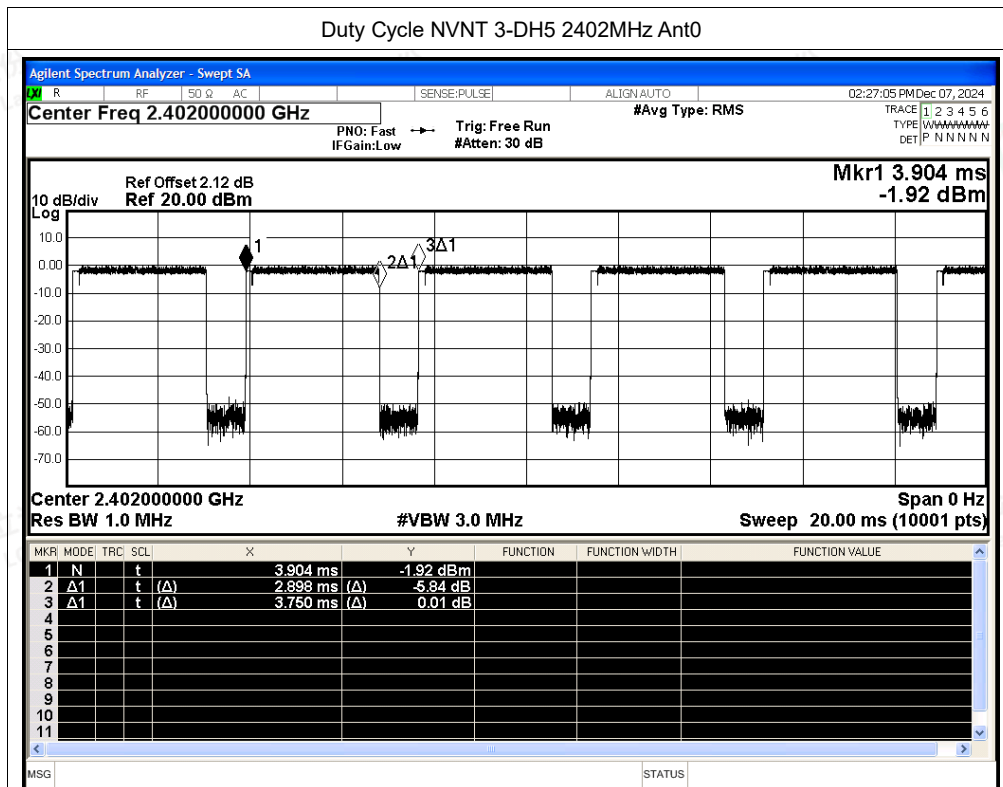
Duty Cycle NVNT 1-DH5 2480MHz Ant0

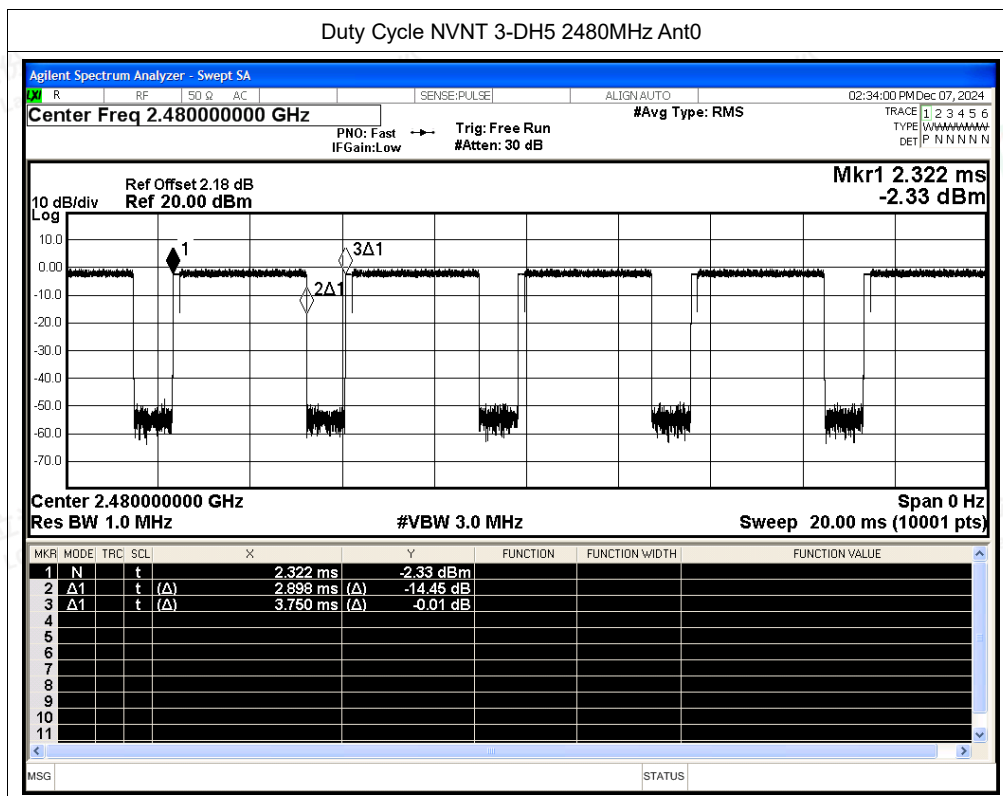


Duty Cycle NVNT 2-DH5 2402MHz Ant0











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	Ant0	No-Hopping	2310	-49.51	2	-	47.75	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2310	-58.22	2	1.1	40.14	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2361.168	-47.89	2	-	49.37	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2382.96	-57.51	2	1.1	40.85	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-50.39	2	-	46.87	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-58.31	2	1.1	40.05	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-49.8	2	-	47.46	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-57.7	2	1.1	40.66	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2485.984	-46.74	2	-	50.52	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2486.728	-56.98	2	1.1	41.38	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-50.3	2	-	46.96	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-58.06	2	1.1	40.3	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-49.06	2	-	48.2	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-58.38	2	1.12	40	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2386.128	-46.47	2	-	50.79	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2344.848	-57.53	2	1.12	40.85	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-49.76	2	-	47.5	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-58.16	2	1.12	40.22	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-50.28	2	-	46.98	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-57.85	2	1.12	40.53	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2491.912	-46.92	2	-	50.34	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2487.592	-56.99	2	1.12	41.39	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-51.09	2	-	46.17	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-58.12	2	1.12	40.26	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-50.51	2	-	46.75	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-58.4	2	1.12	39.98	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2336.4	-47.28	2	-	49.98	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2376.432	-57.4	2	1.12	40.98	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-48.54	2	-	48.72	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-57.93	2	1.12	40.45	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-49.09	2	-	48.17	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-57.71	2	1.12	40.67	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2490.256	-46.27	2	-	50.99	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.704	-56.96	2	1.12	41.42	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-49.28	2	-	47.98	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-58.08	2	1.12	40.3	Average	54	Pass



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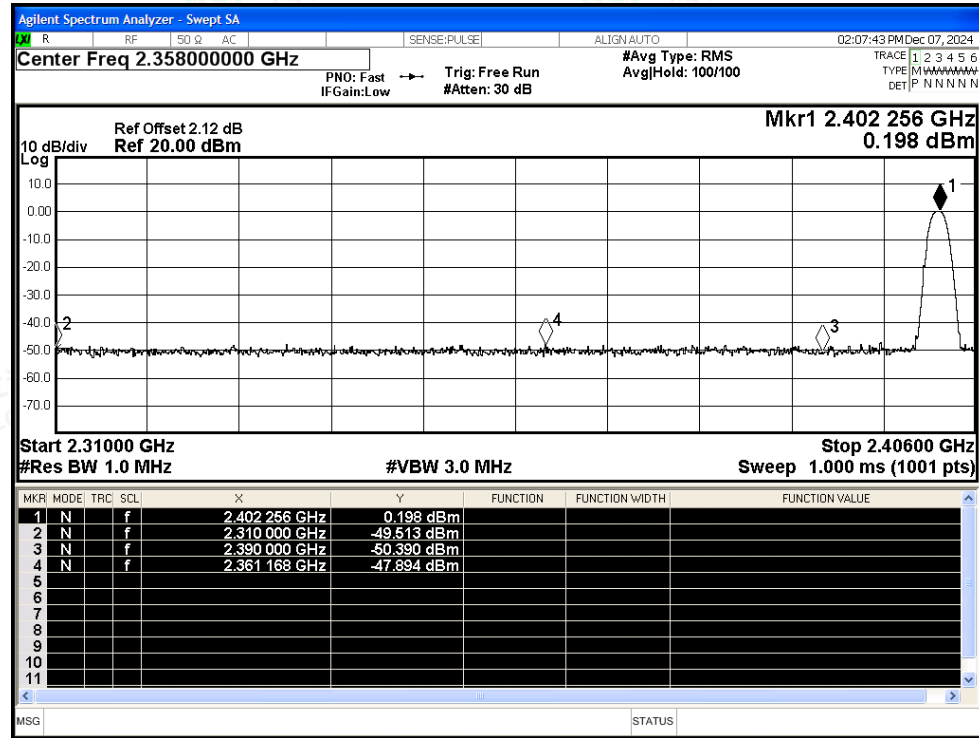
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

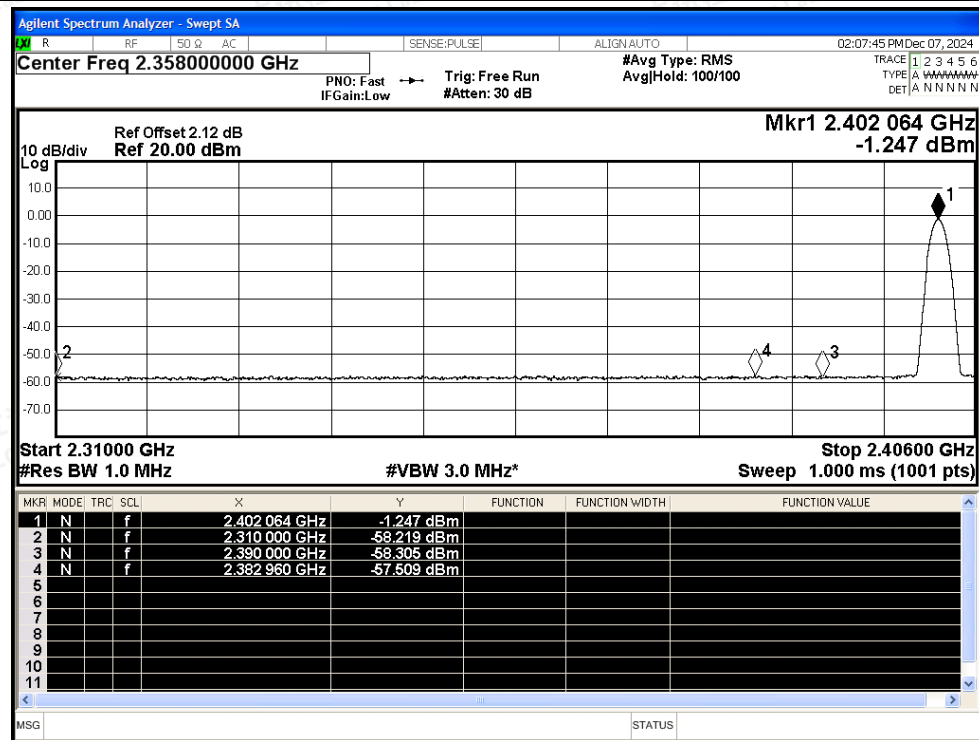


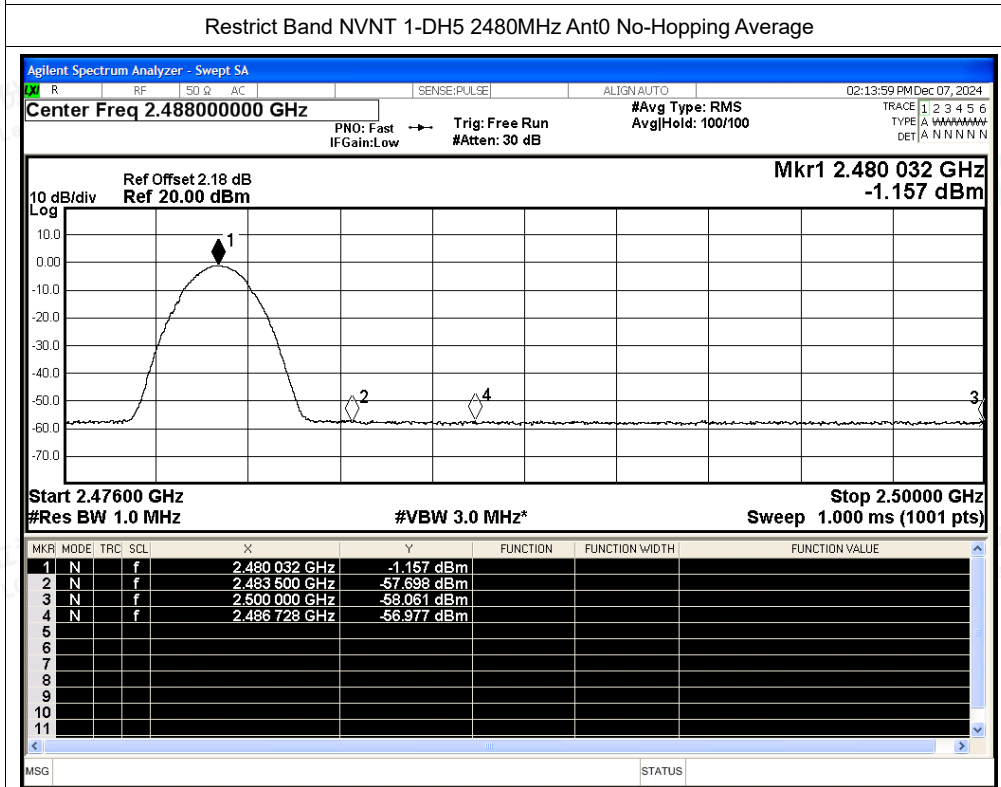
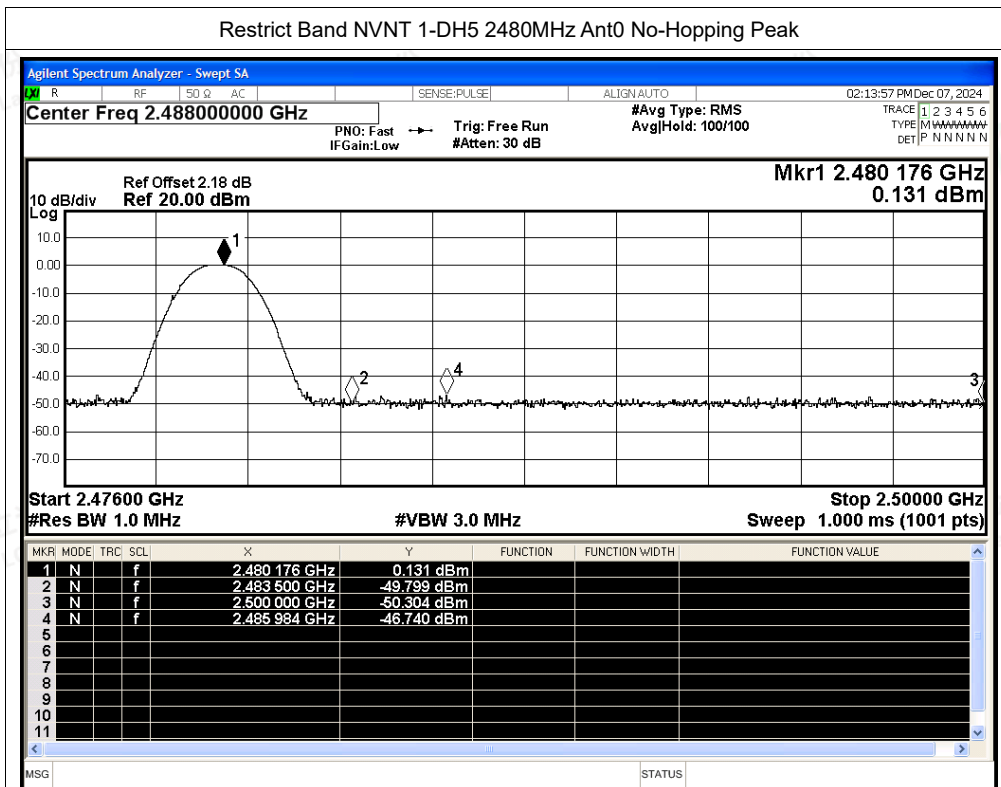
Test Graphs

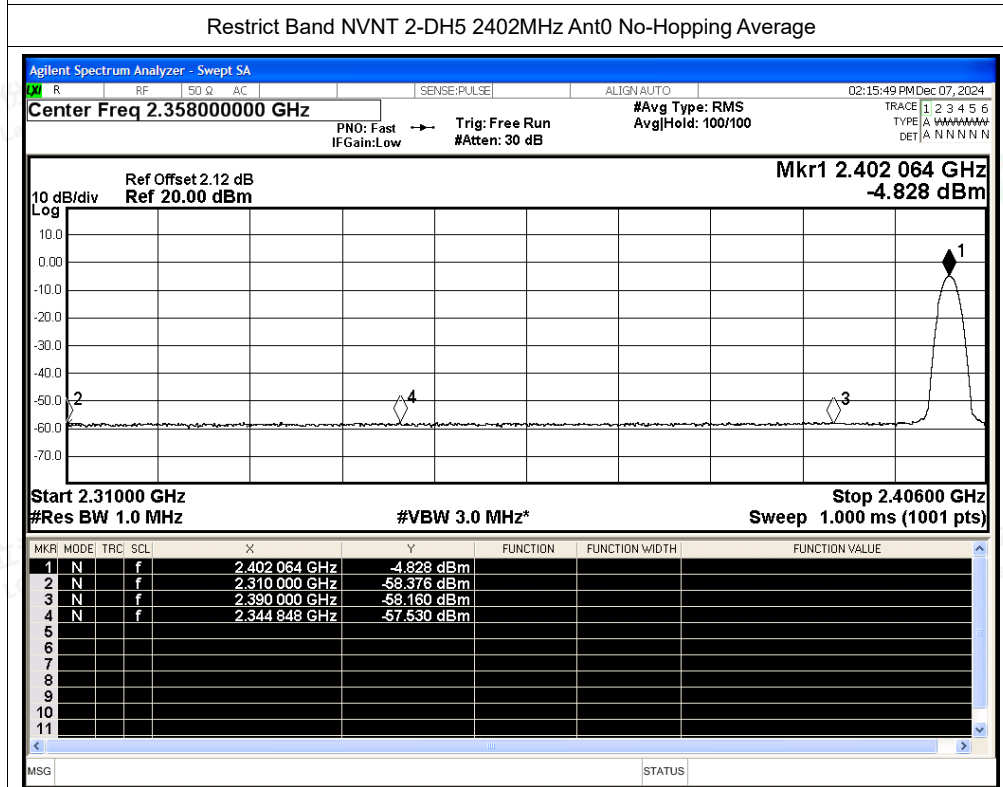
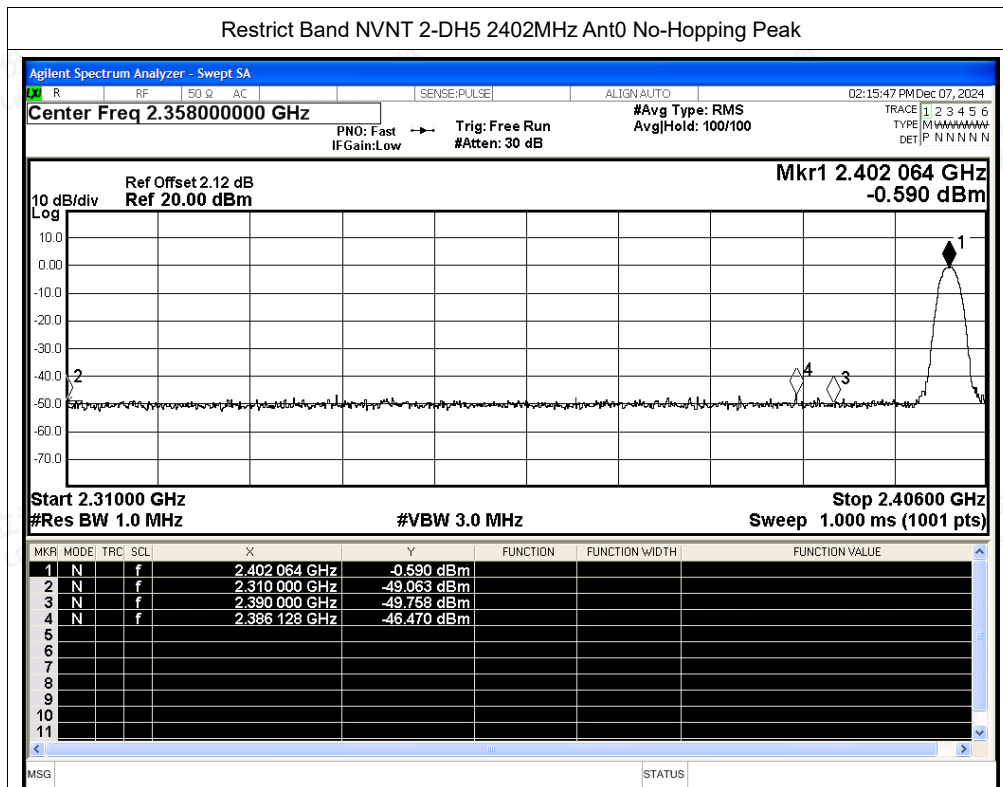
Restrict Band NVNT 1-DH5 2402MHz Ant0 No-Hopping Peak

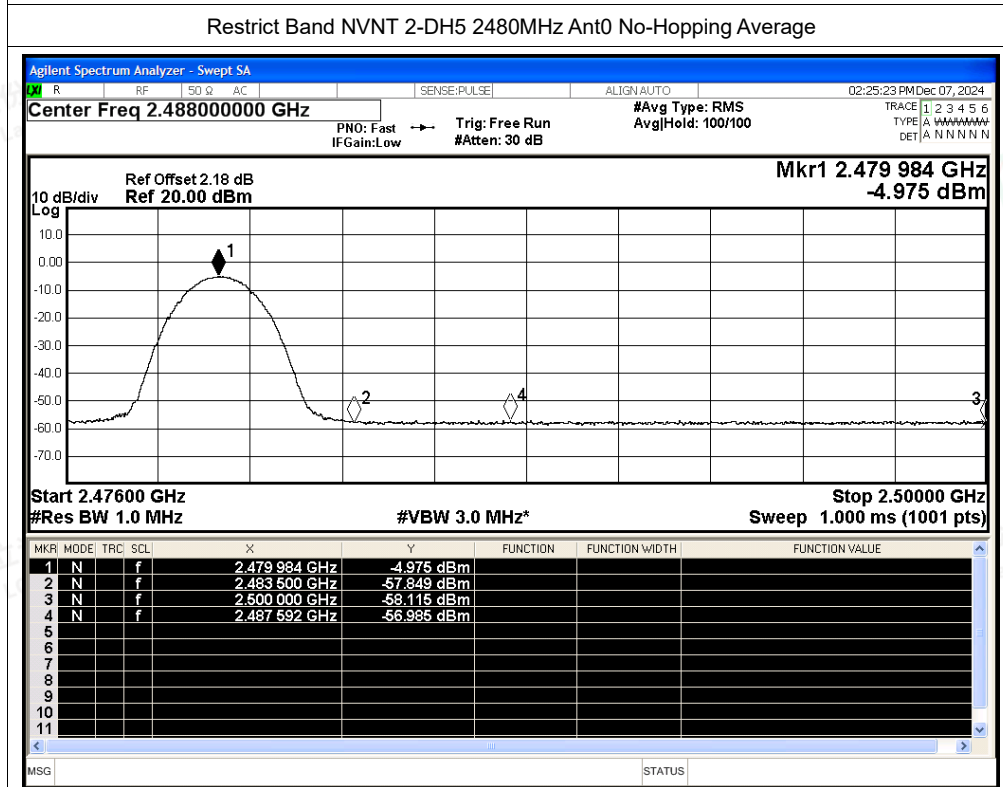
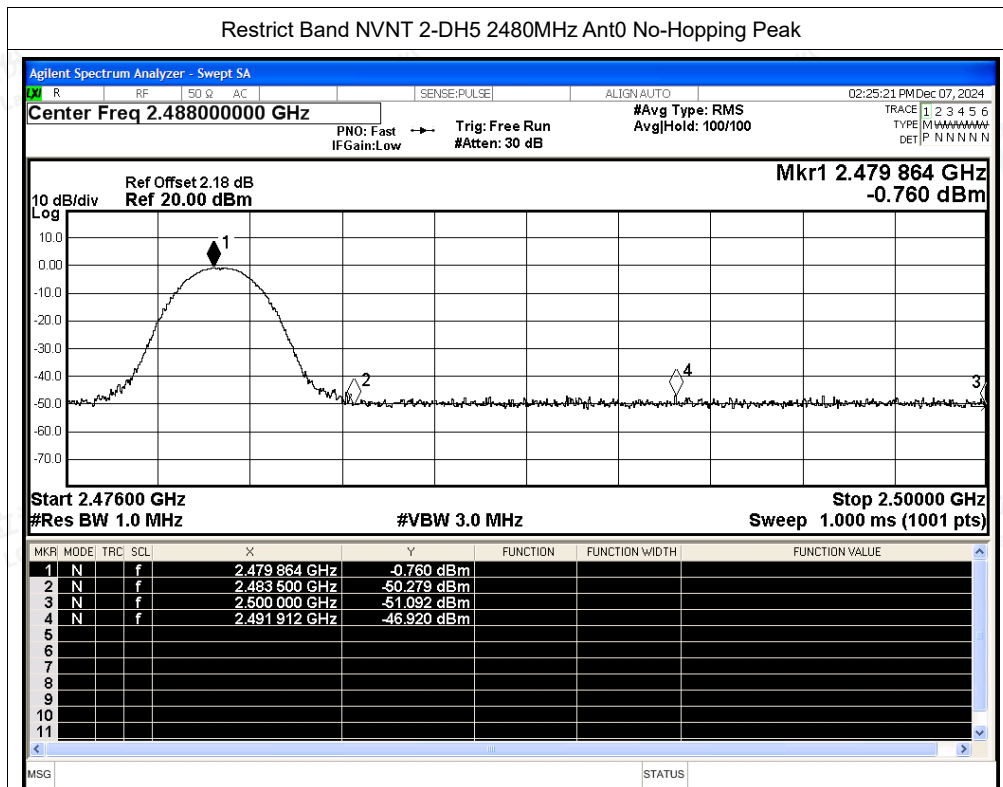


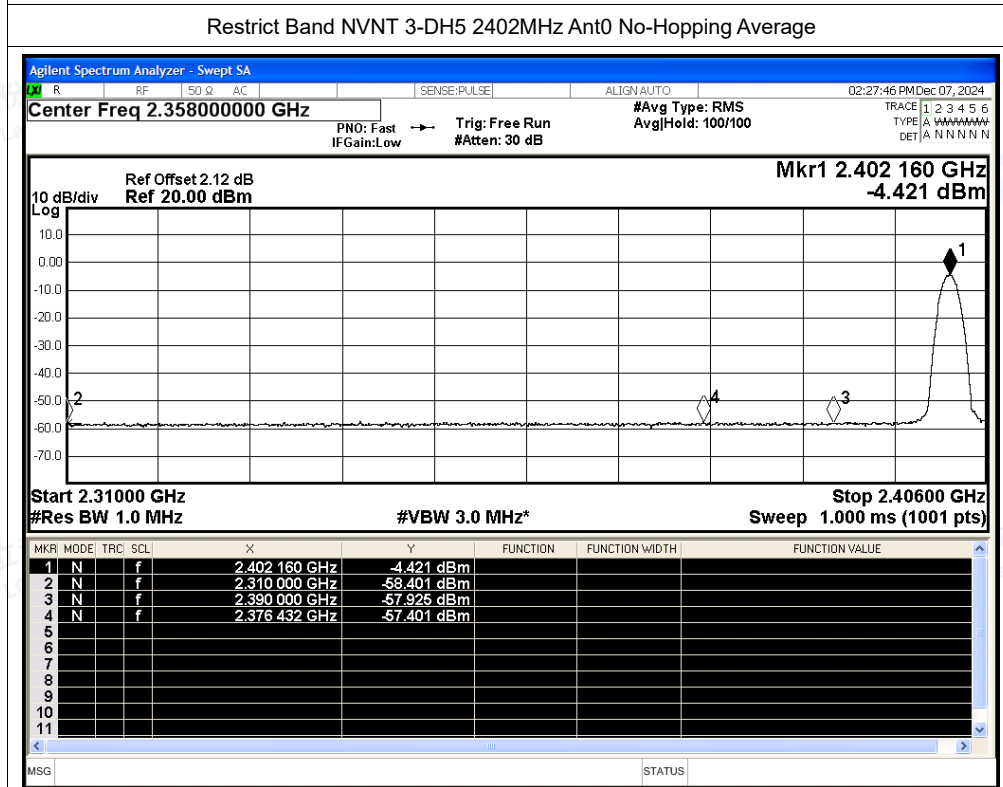
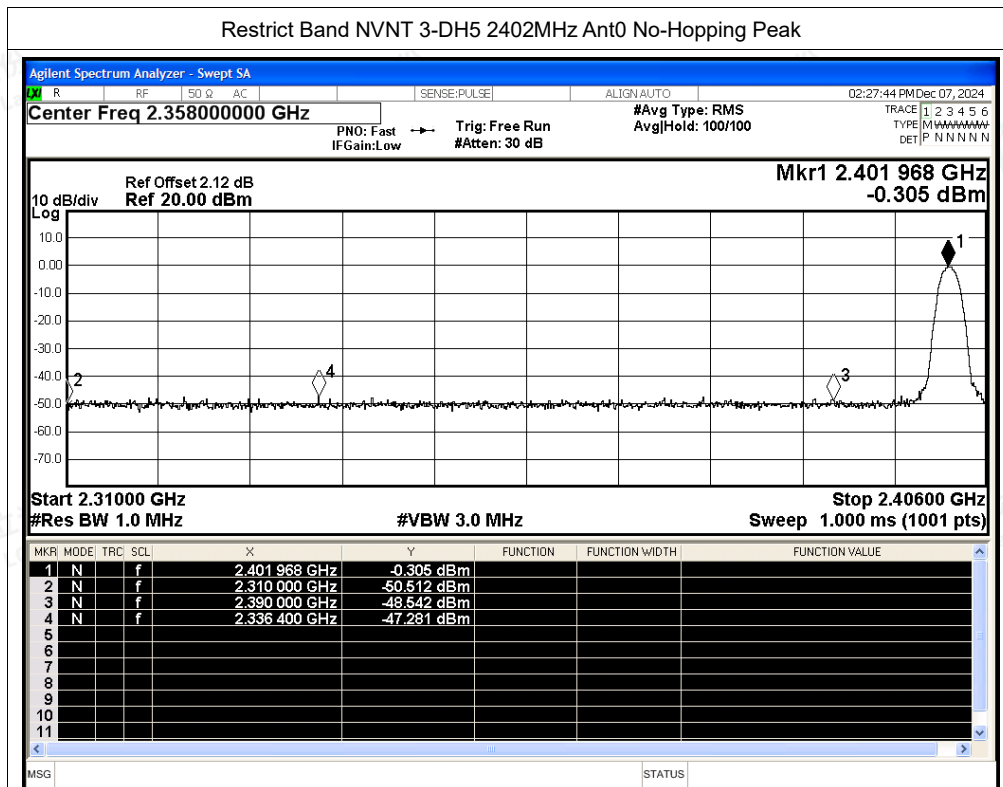
Restrict Band NVNT 1-DH5 2402MHz Ant0 No-Hopping Average





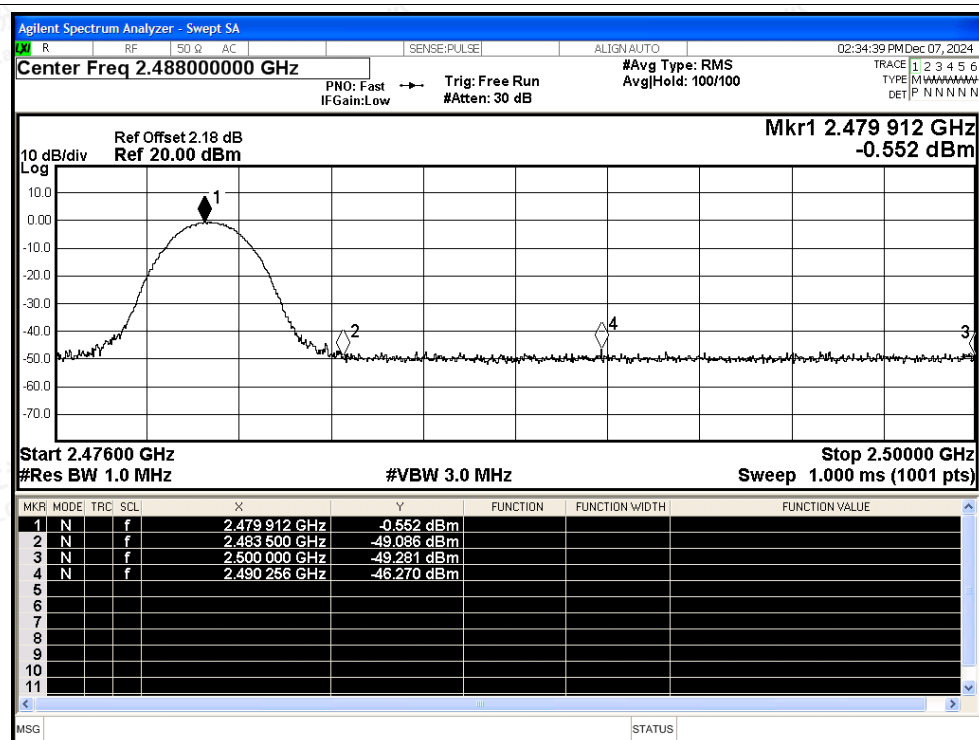








Restrict Band NVNT 3-DH5 2480MHz Ant0 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant0 No-Hopping Average

