



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: VIDEO PROJECTOR

Test Model: X3

Environmental Conditions

Temperature:	23.1°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant0	0.969	N/A	Pass
NVNT	1-DH5	2441	Ant0	0.954	N/A	Pass
NVNT	1-DH5	2480	Ant0	0.944	N/A	Pass
NVNT	2-DH5	2402	Ant0	1.283	N/A	Pass
NVNT	2-DH5	2441	Ant0	1.309	N/A	Pass
NVNT	2-DH5	2480	Ant0	1.283	N/A	Pass
NVNT	3-DH5	2402	Ant0	1.3	N/A	Pass
NVNT	3-DH5	2441	Ant0	1.298	N/A	Pass
NVNT	3-DH5	2480	Ant0	1.3	N/A	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant0



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant0

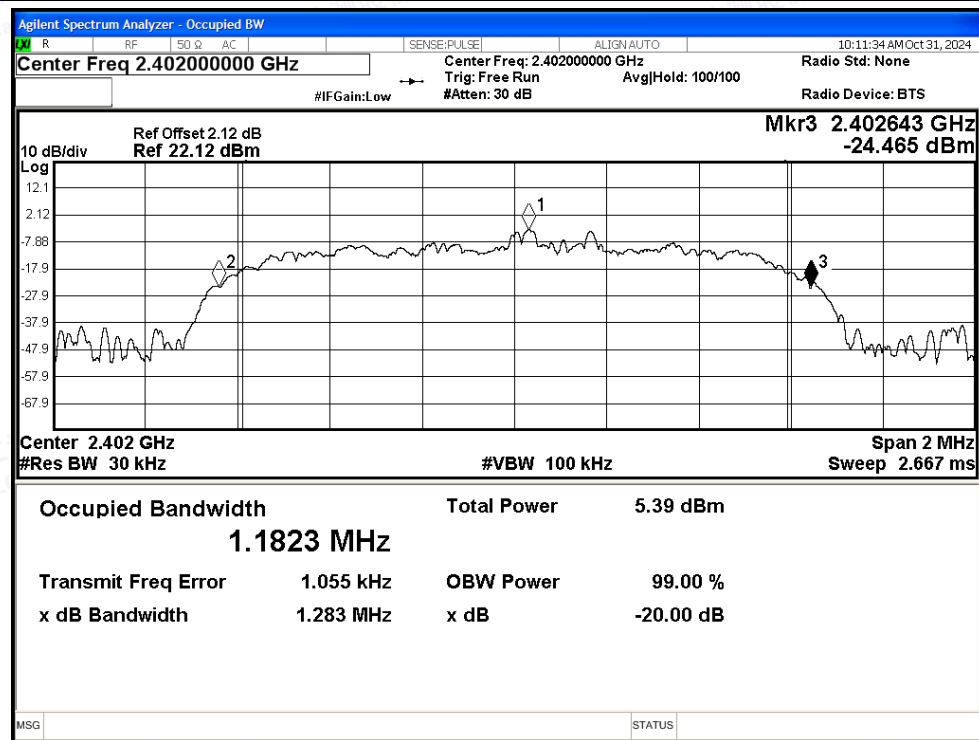




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant0

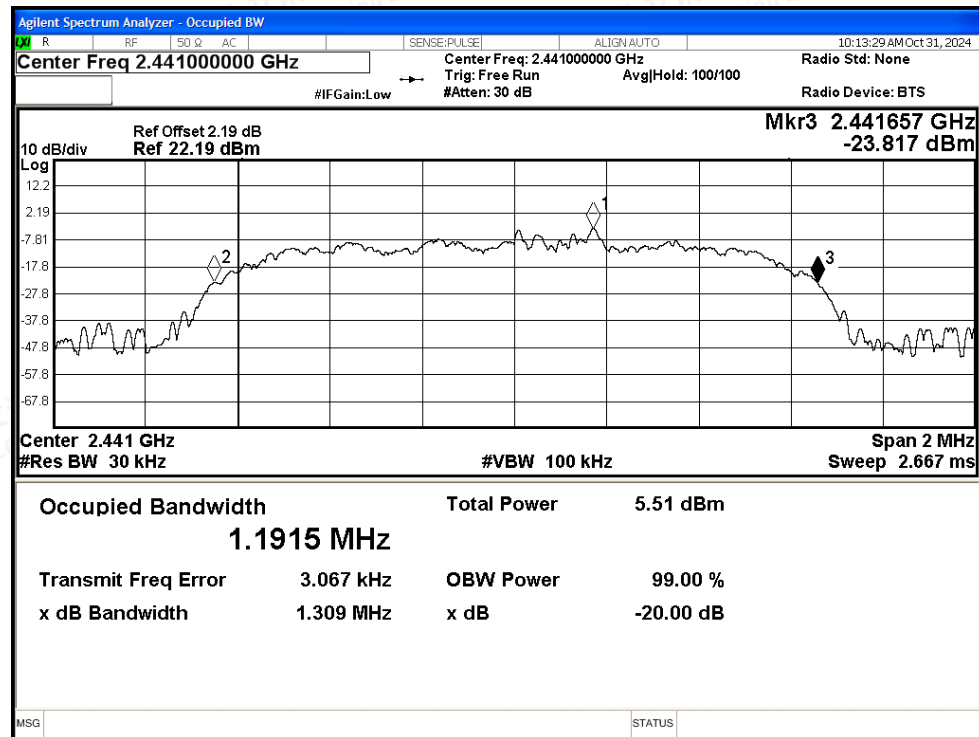


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant0

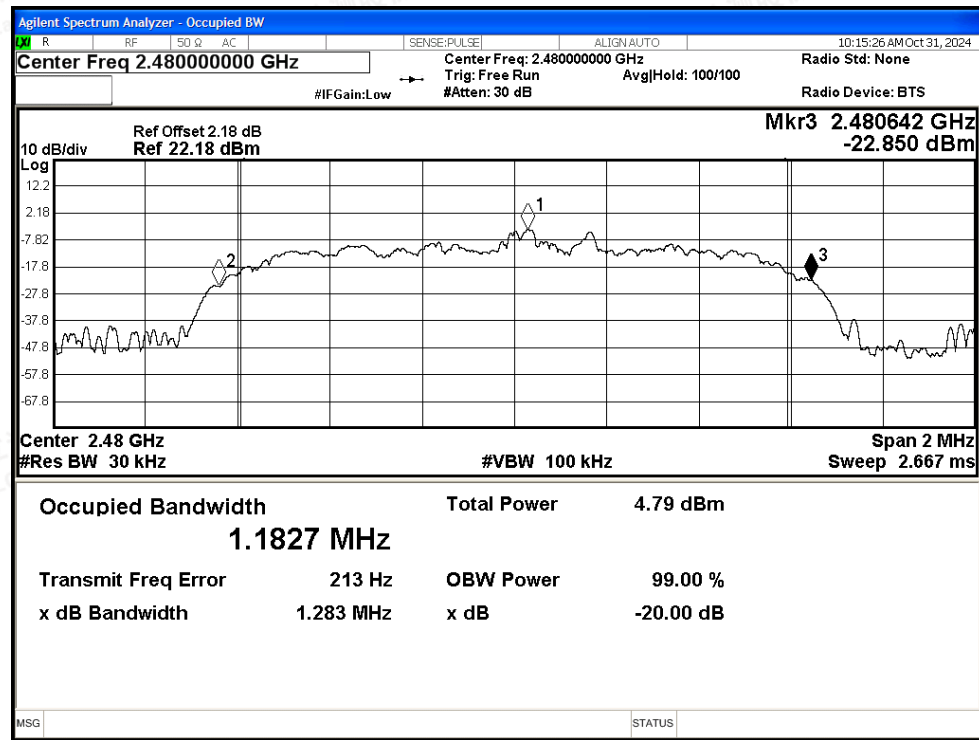




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant0

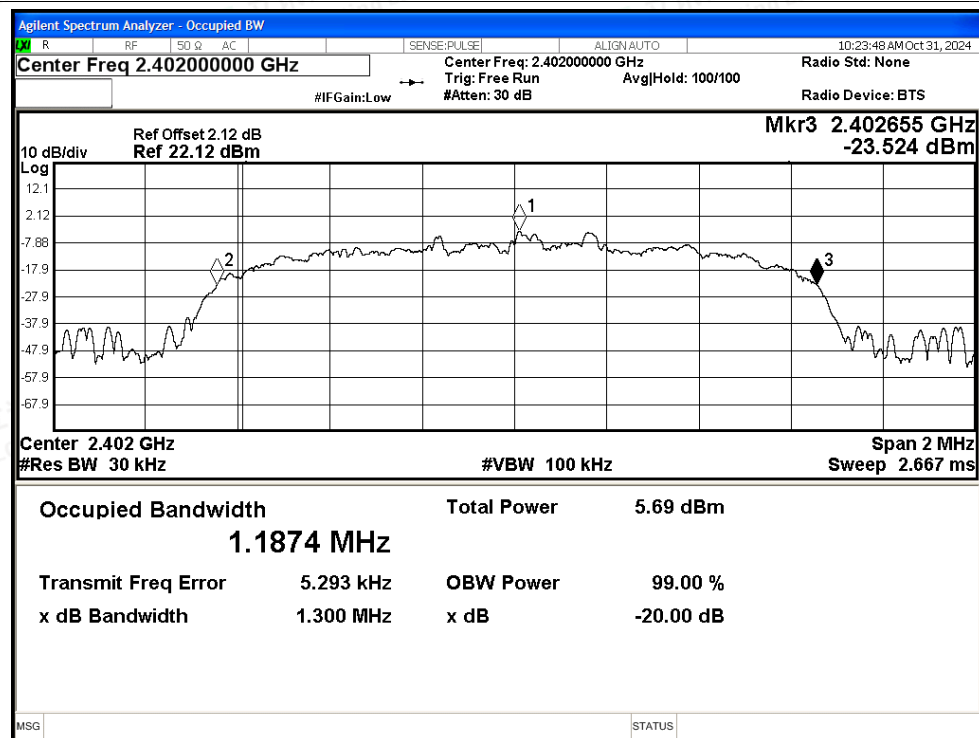


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant0

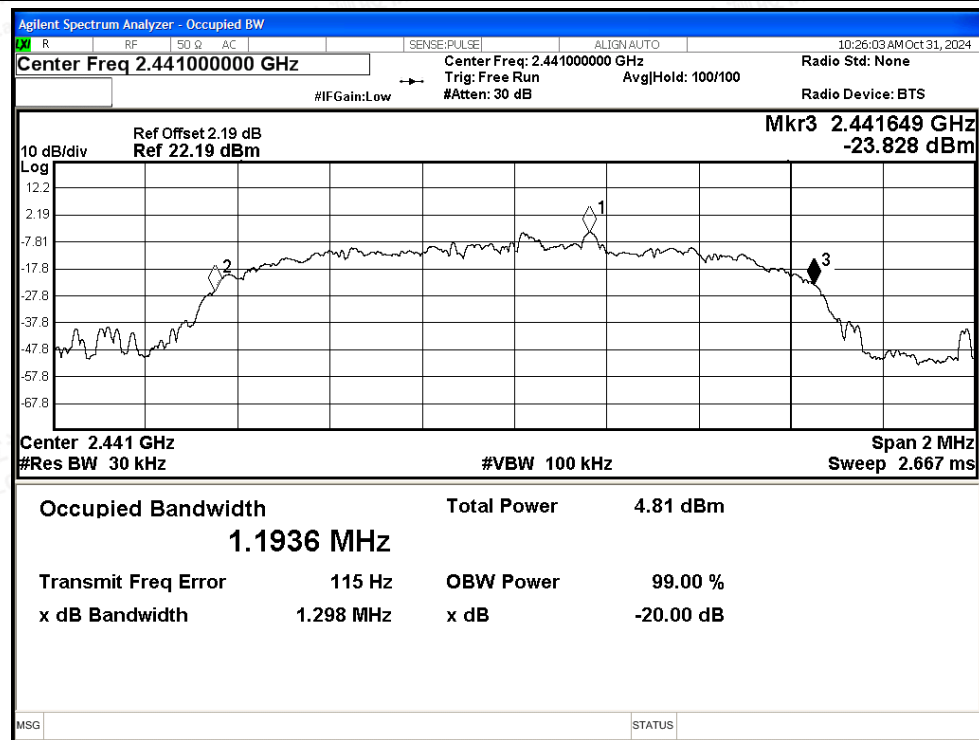


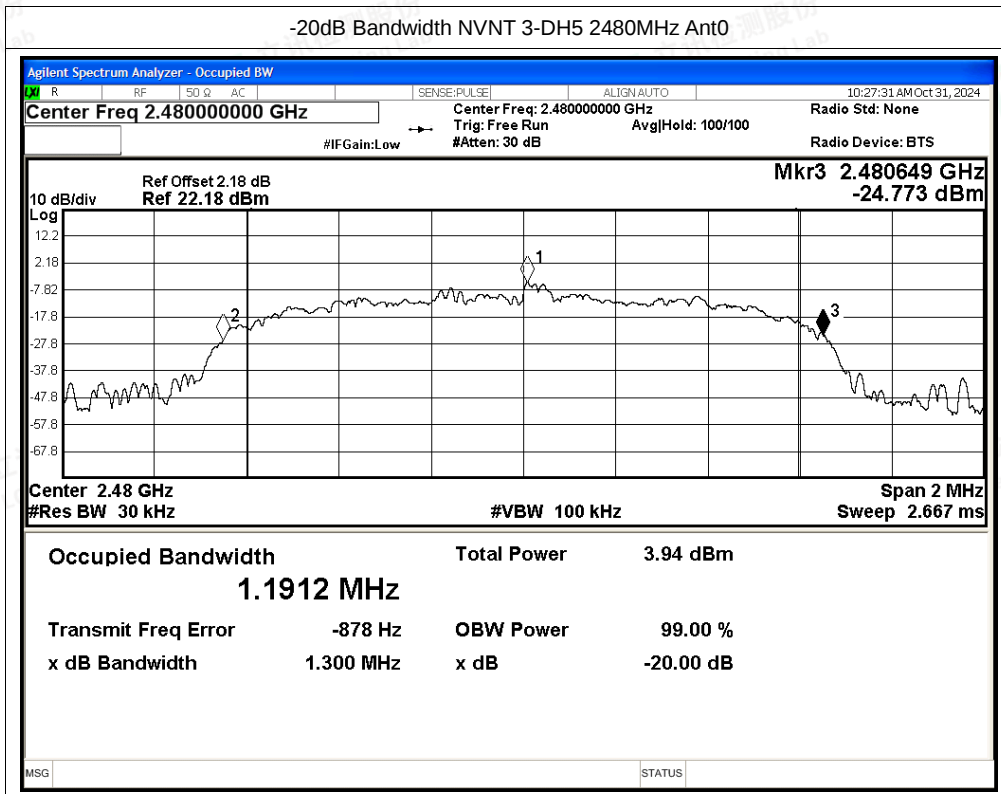


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant0



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant0







A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant0	-0.76	21	Pass
NVNT	1-DH5	2441	Ant0	-0.37	21	Pass
NVNT	1-DH5	2480	Ant0	-1.57	21	Pass
NVNT	2-DH5	2402	Ant0	0.89	21	Pass
NVNT	2-DH5	2441	Ant0	1.29	21	Pass
NVNT	2-DH5	2480	Ant0	0.16	21	Pass
NVNT	3-DH5	2402	Ant0	1.36	21	Pass
NVNT	3-DH5	2441	Ant0	0.65	21	Pass
NVNT	3-DH5	2480	Ant0	-0.2	21	Pass

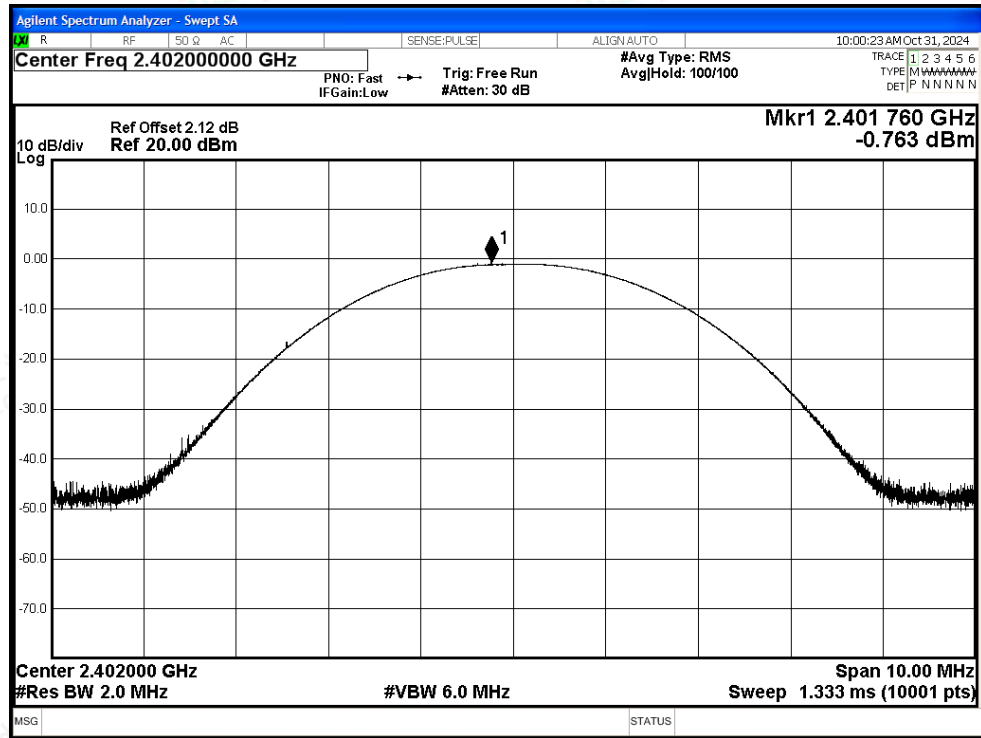


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Baoan District, Shenzhen, 518000, China
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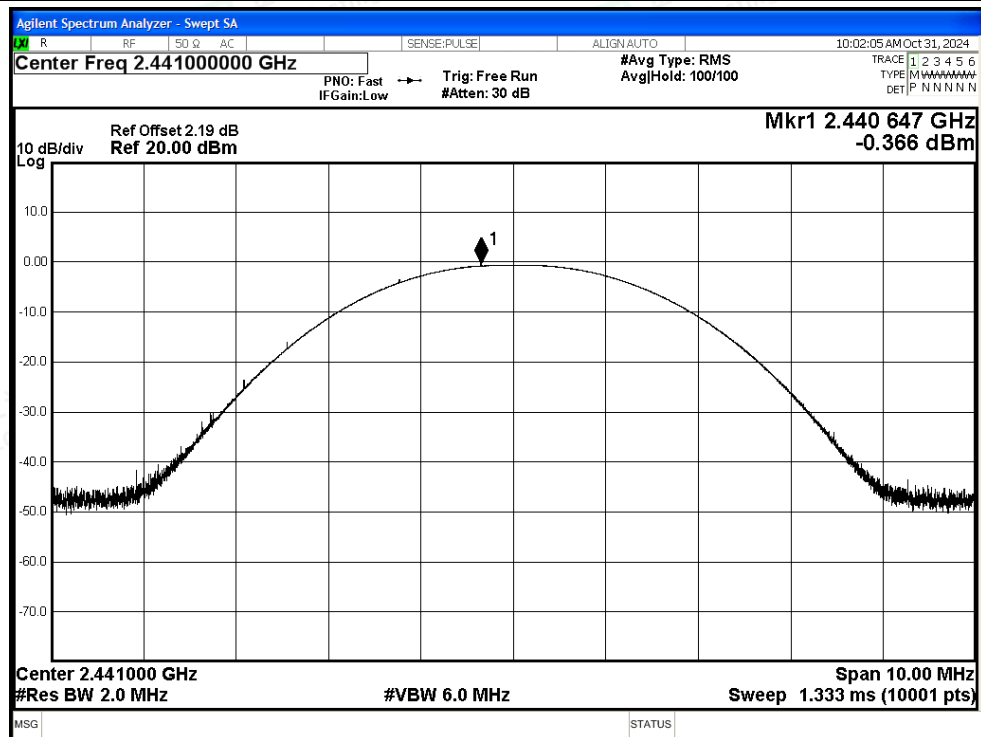


Test Graphs

Power NVNT 1-DH5 2402MHz Ant0

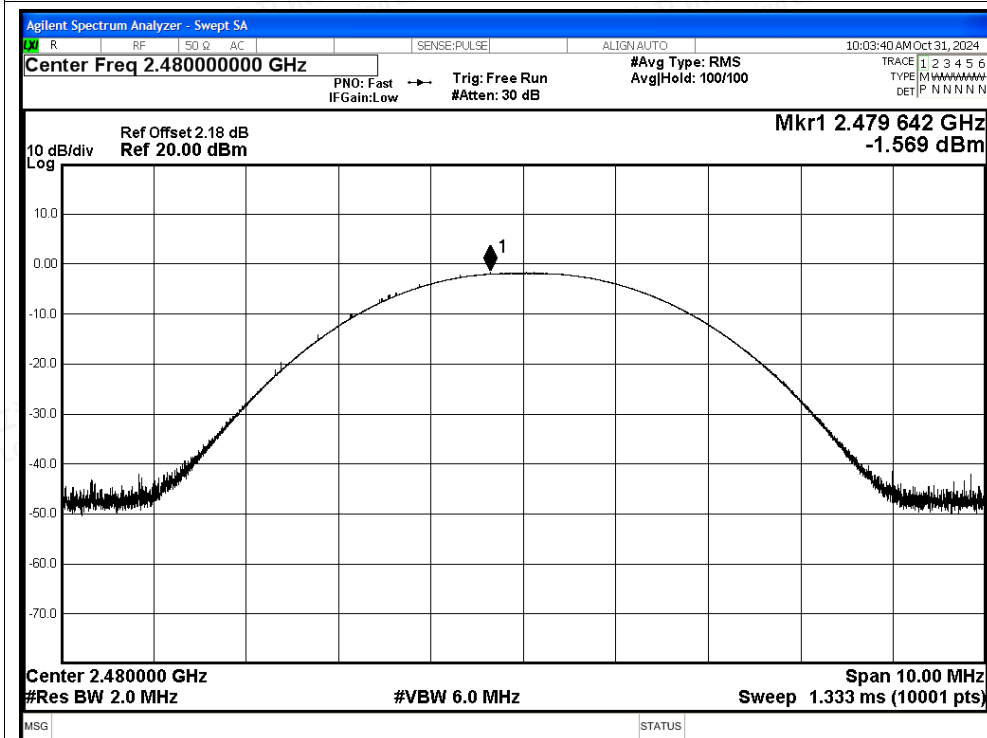


Power NVNT 1-DH5 2441MHz Ant0

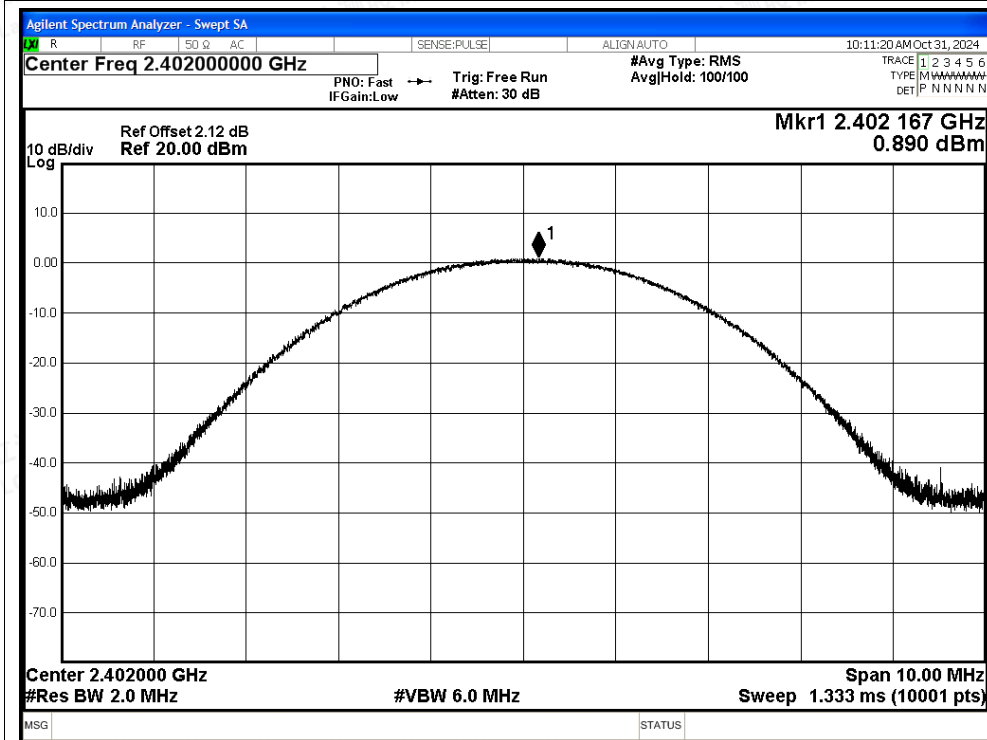




Power NVNT 1-DH5 2480MHz Ant0

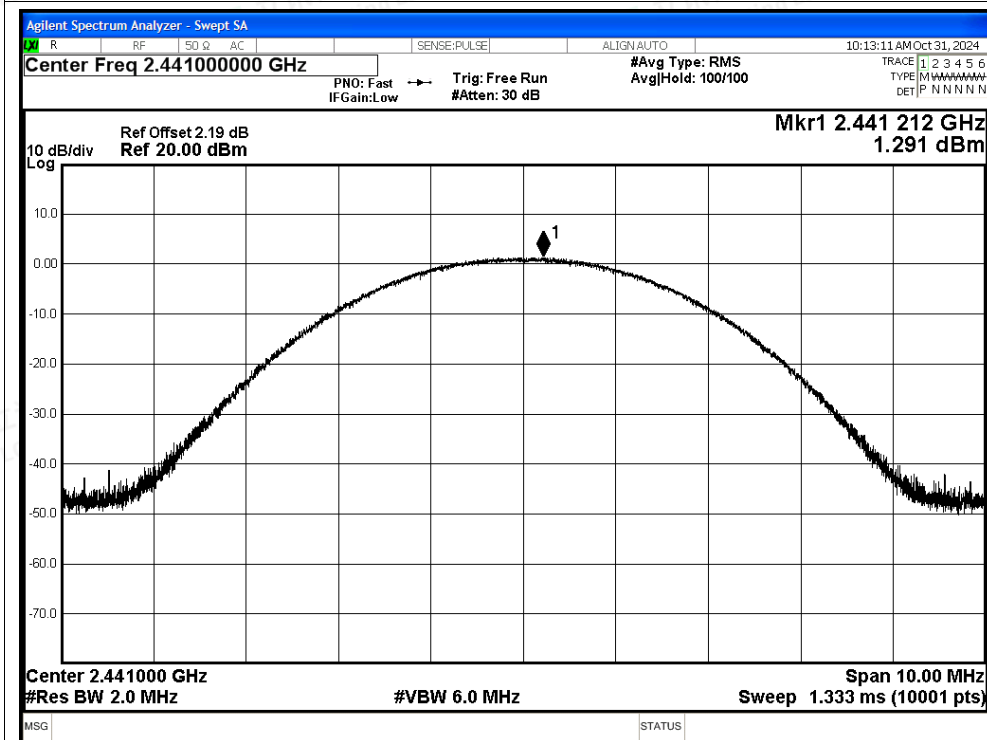


Power NVNT 2-DH5 2402MHz Ant0

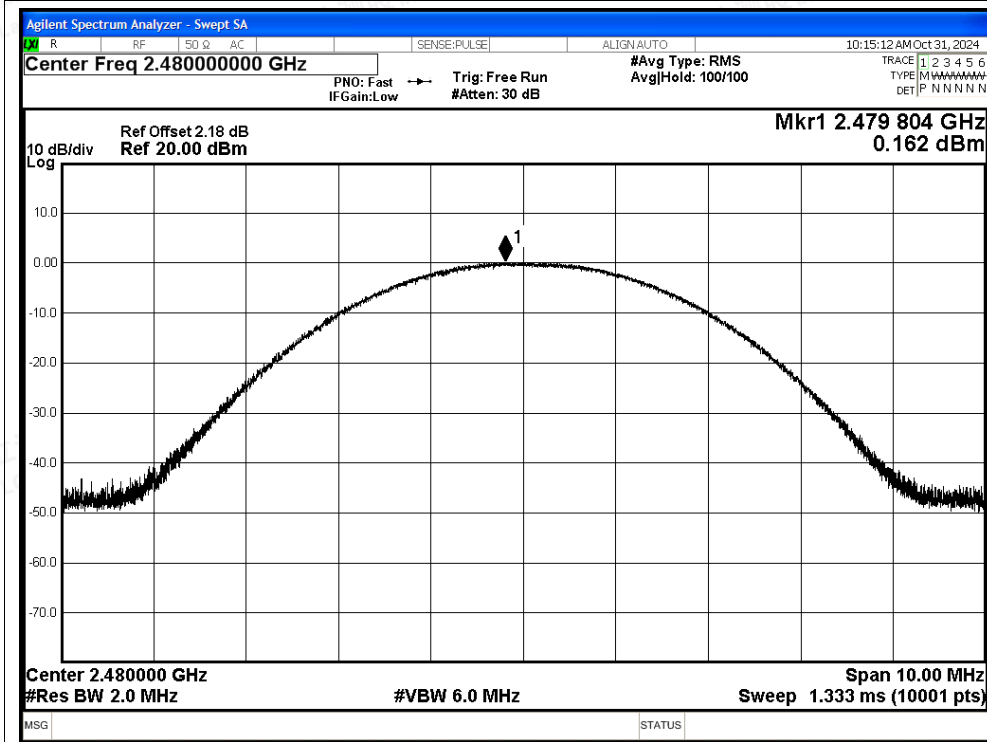




Power NVNT 2-DH5 2441MHz Ant0

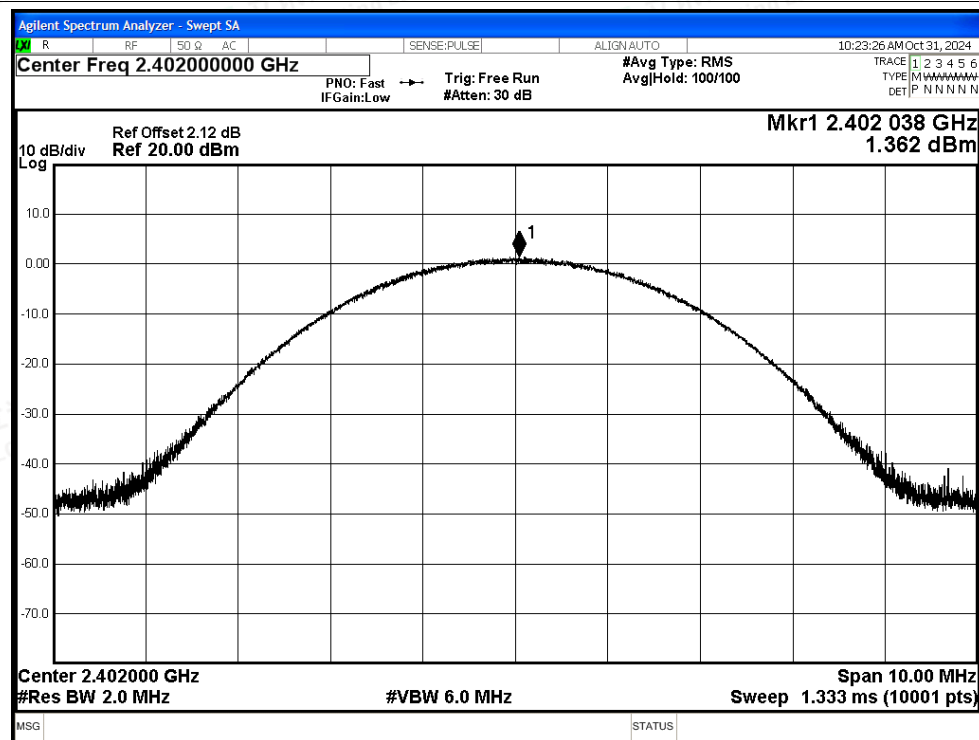


Power NVNT 2-DH5 2480MHz Ant0

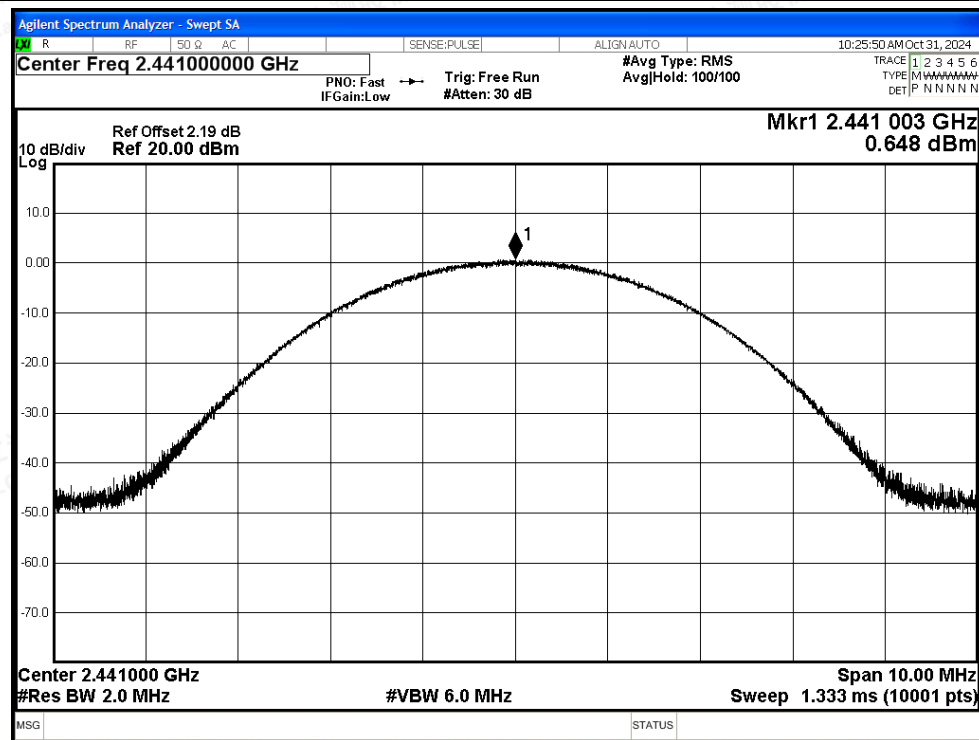


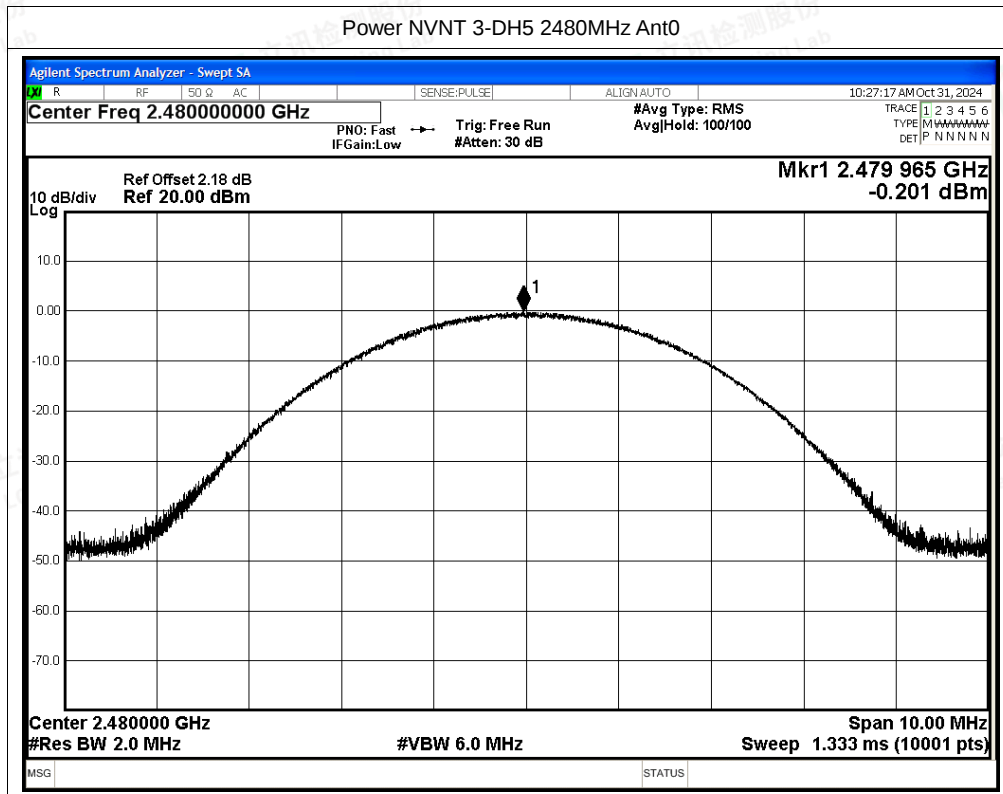


Power NVNT 3-DH5 2402MHz Ant0



Power NVNT 3-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	2402.036	2402.83	0.794	0.646	Pass
NVNT	2-DH5	Ant0	2402.034	2403.034	1	0.873	Pass
NVNT	3-DH5	Ant0	2402.018	2403.004	0.986	0.867	Pass

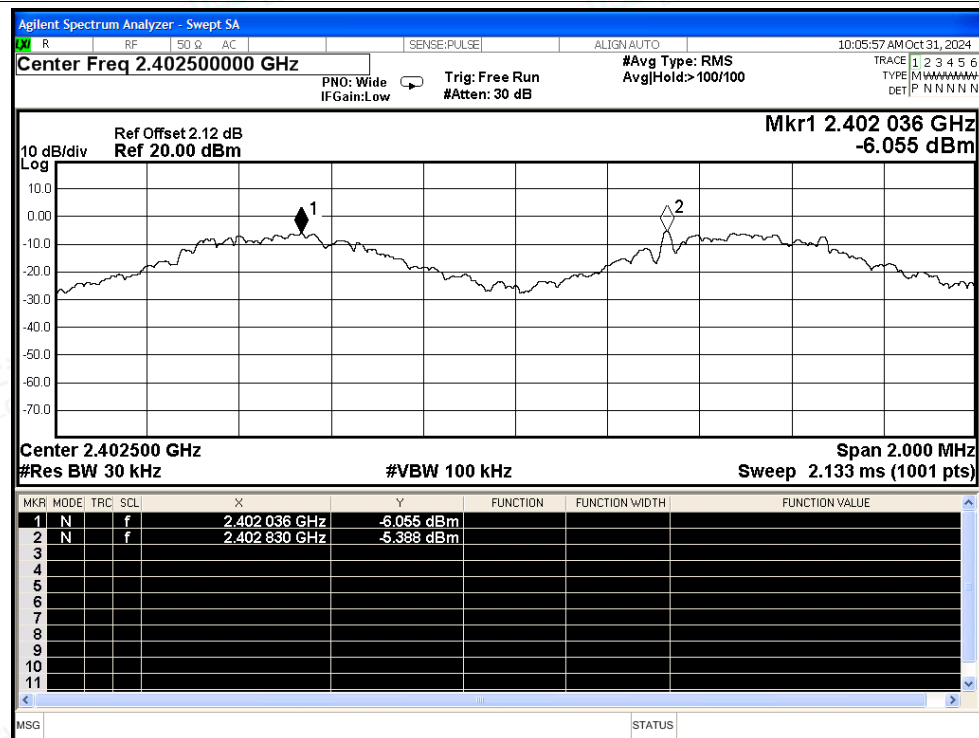


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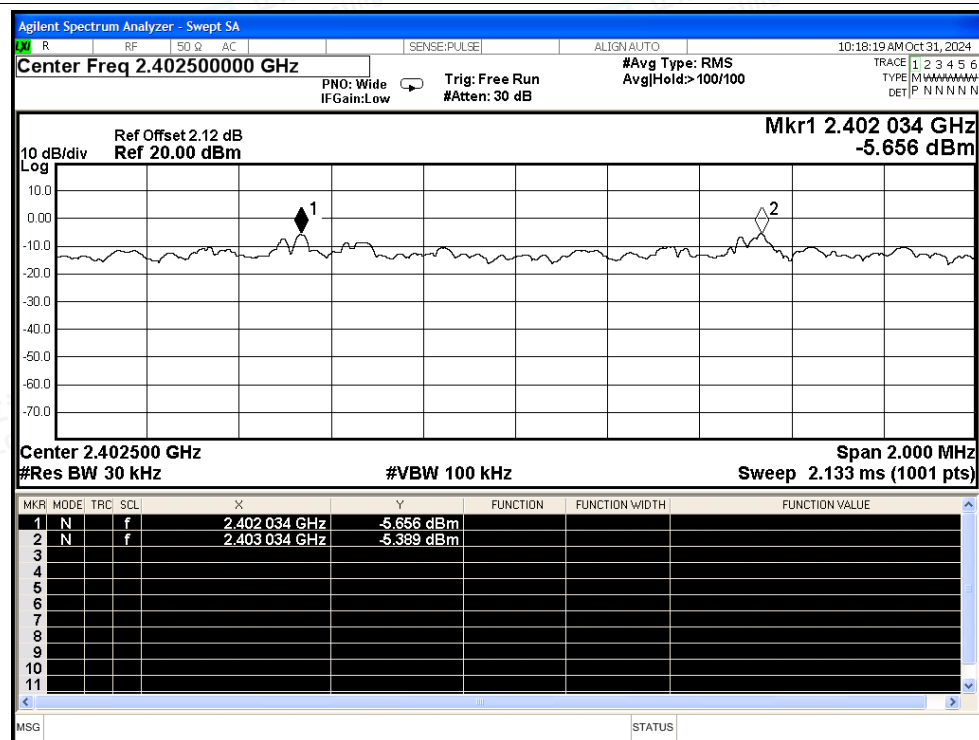


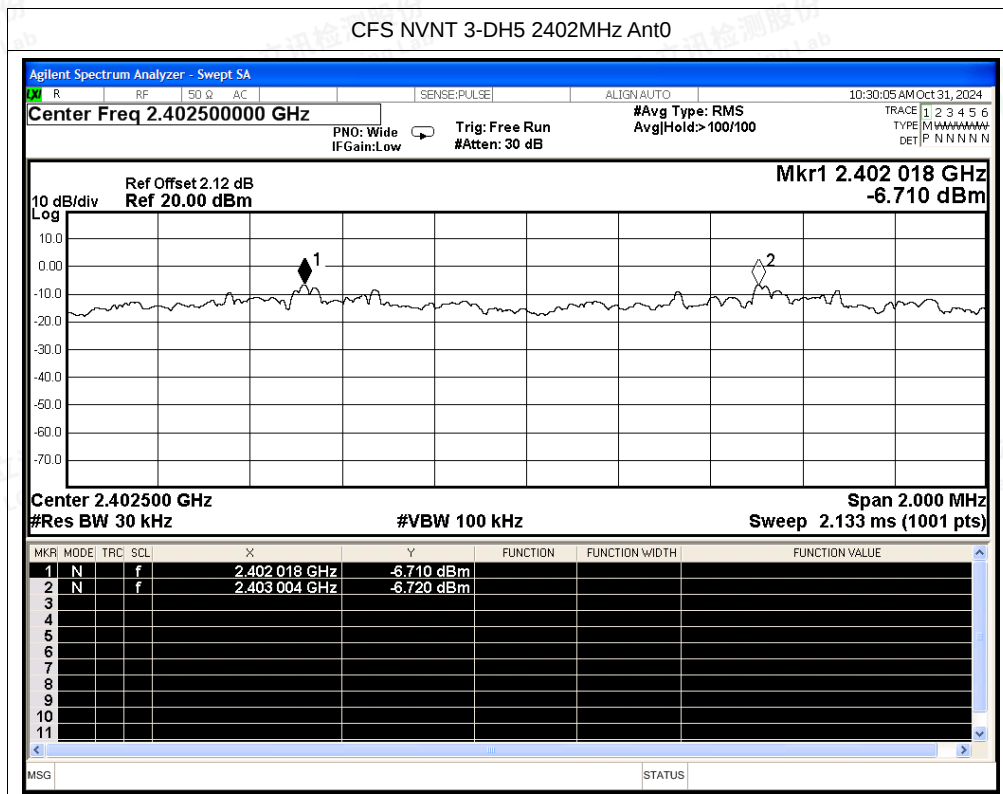
Test Graphs

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	0.5	58	116	31600	400	Pass
NVNT	2-DH5	2402	Ant0	2.898	318.78	110	31600	400	Pass
NVNT	3-DH5	2402	Ant0	2.898	292.698	101	31600	400	Pass

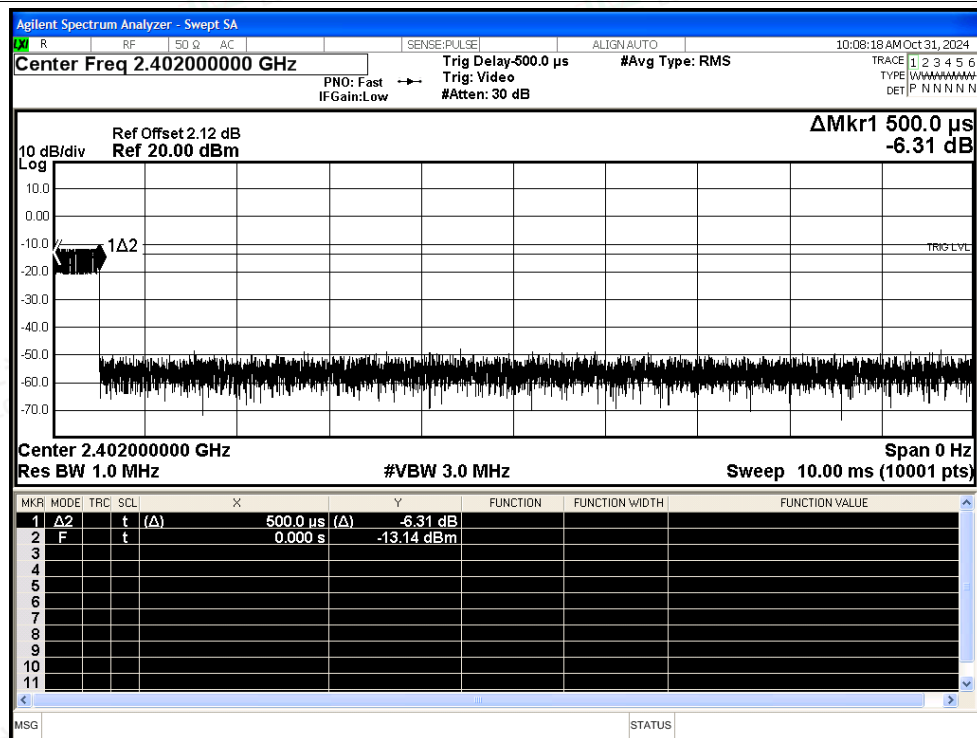


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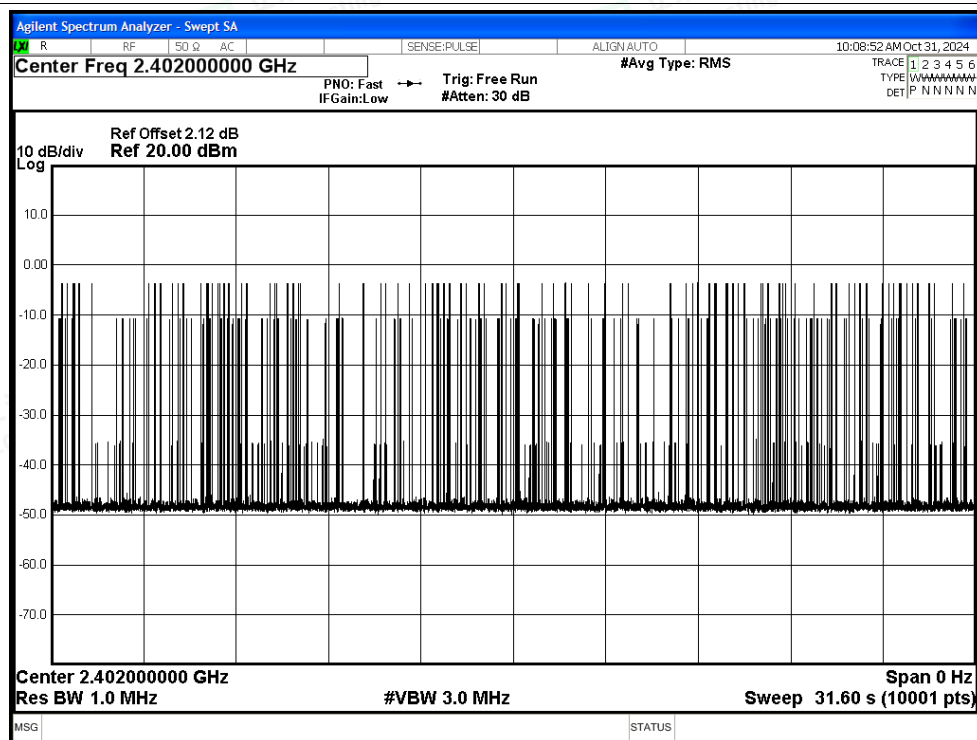


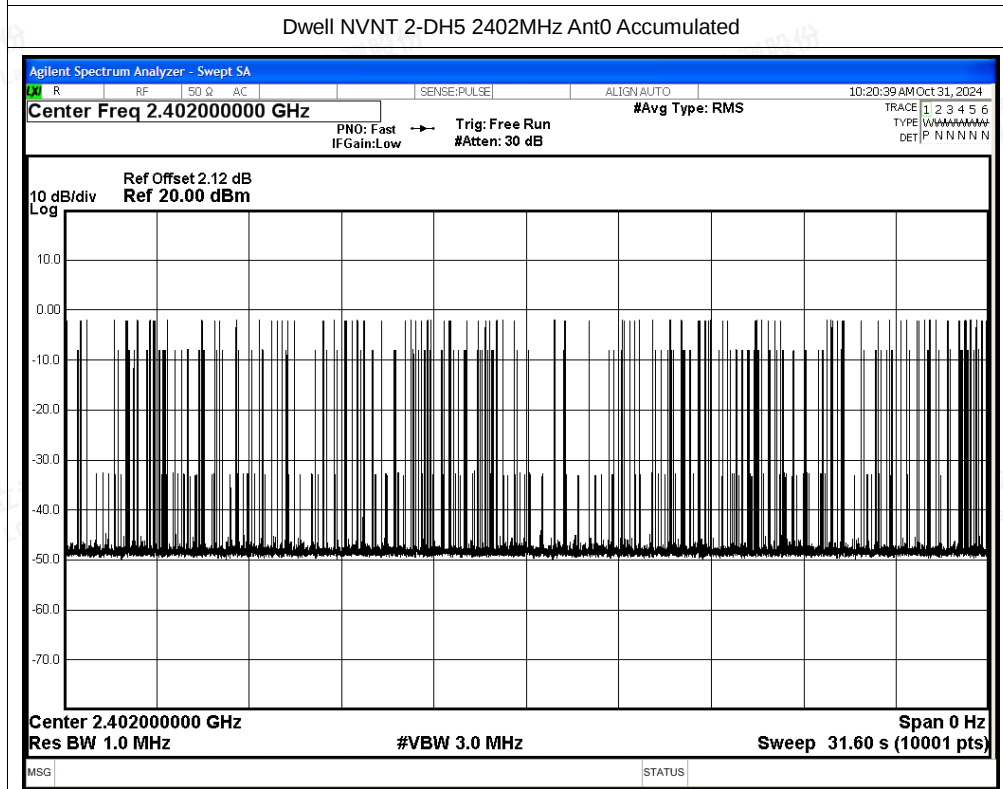
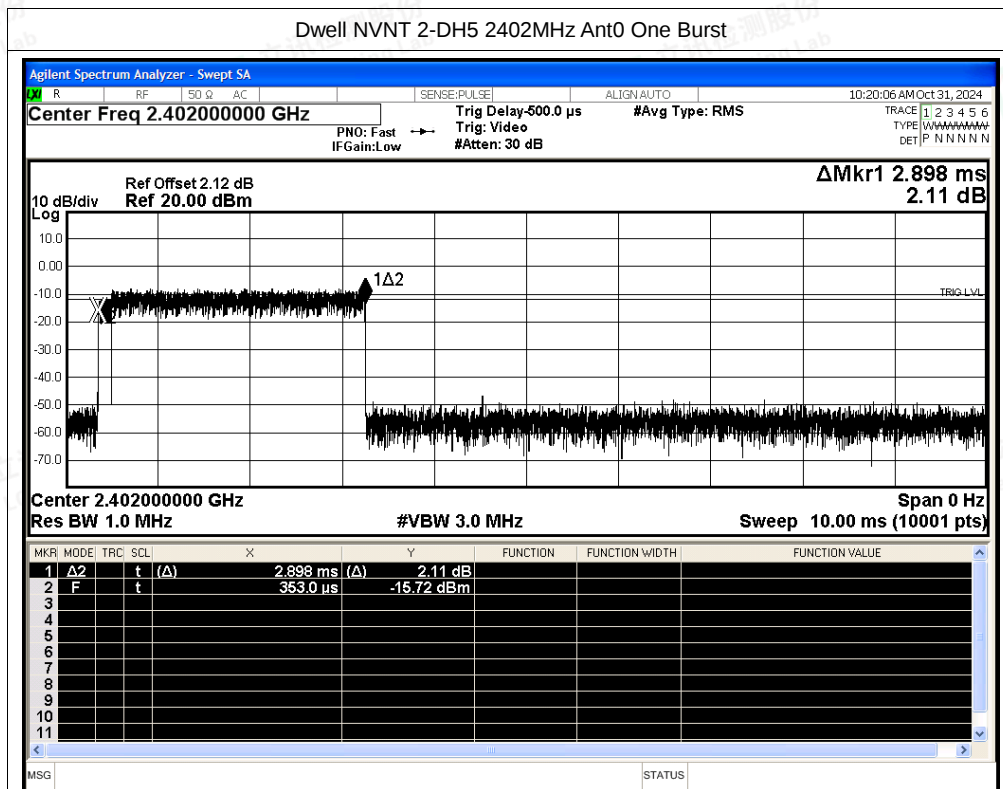
Test Graphs

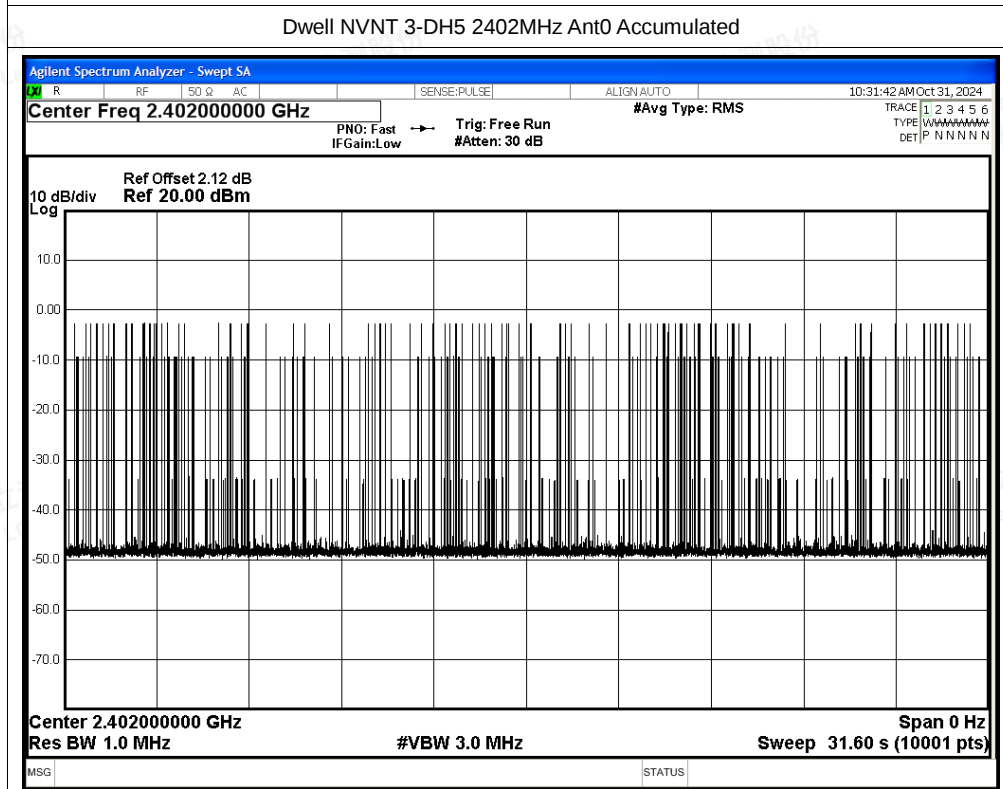
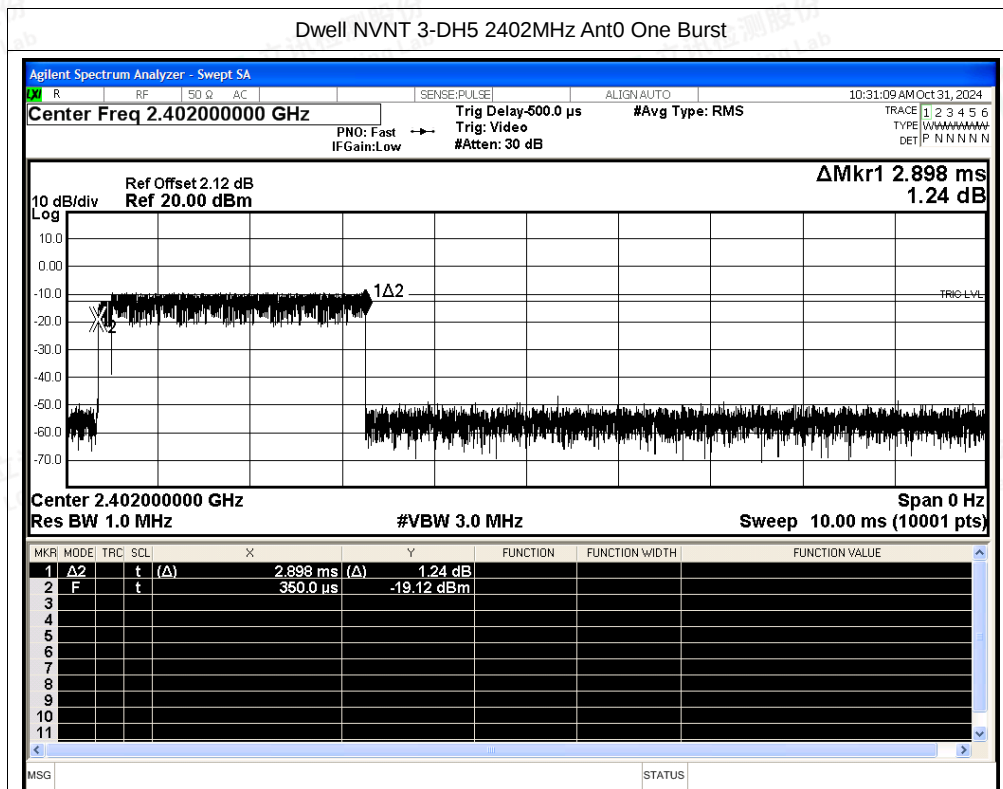
Dwell NVNT 1-DH5 2402MHz Ant0 One Burst



Dwell NVNT 1-DH5 2402MHz Ant0 Accumulated









A.5 Number of Hopping Channel

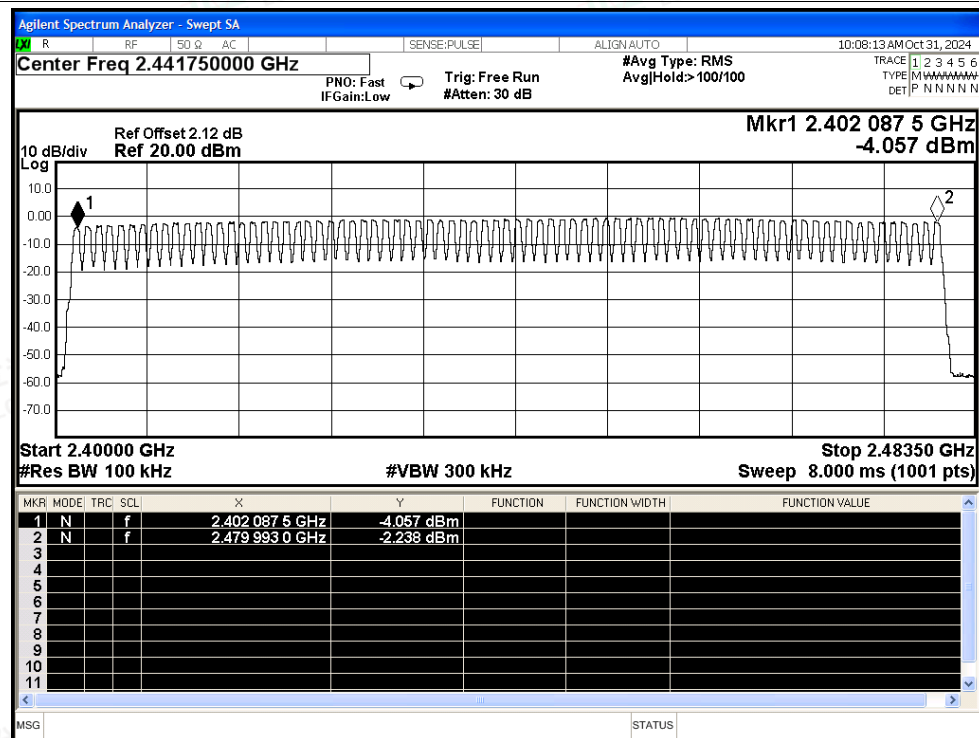
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant0	79	15	Pass
NVNT	2-DH5	Ant0	79	15	Pass
NVNT	3-DH5	Ant0	79	15	Pass



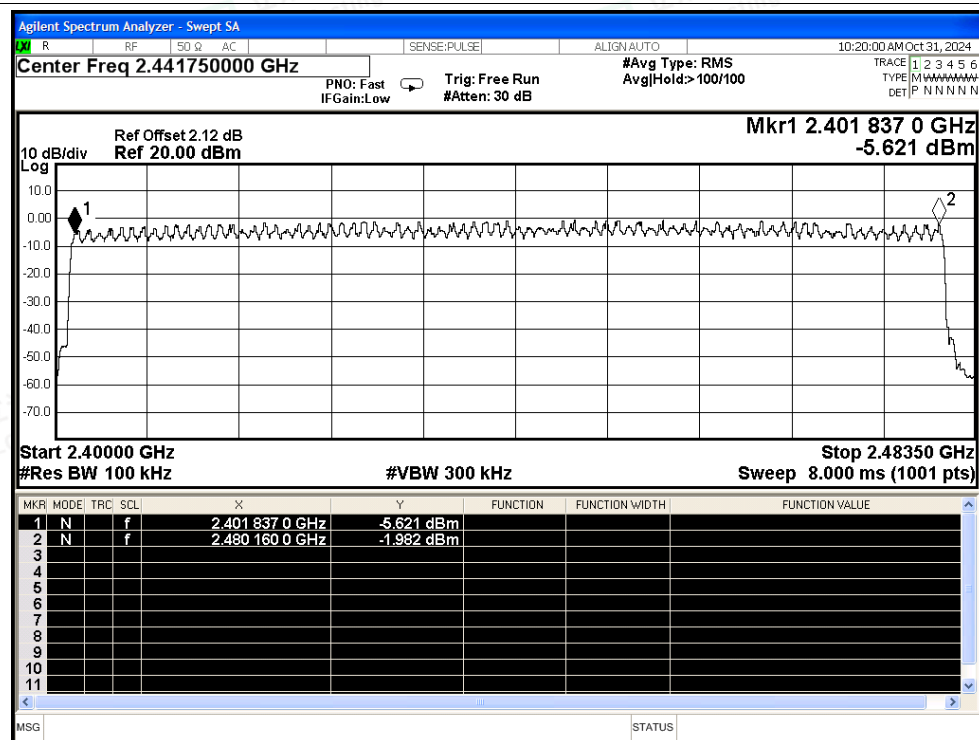


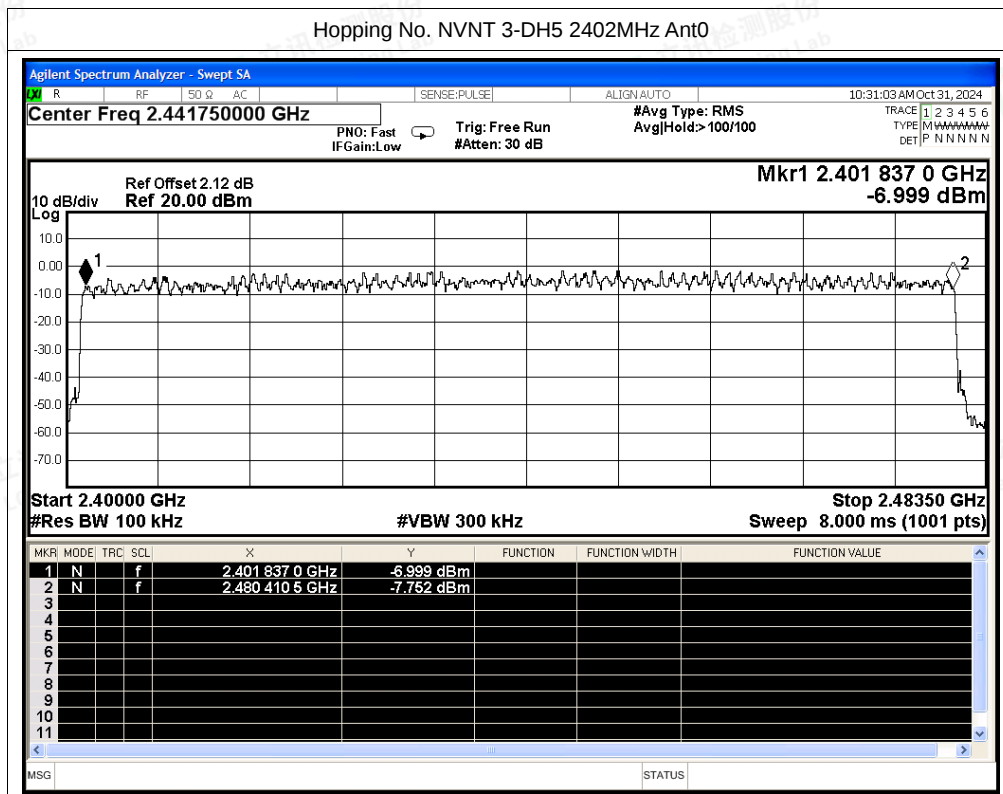
Test Graphs

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	-55.48	-20	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	-54.53	-20	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	-50.83	-20	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	-55.15	-20	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	-49.67	-20	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	-54.24	-20	Pass

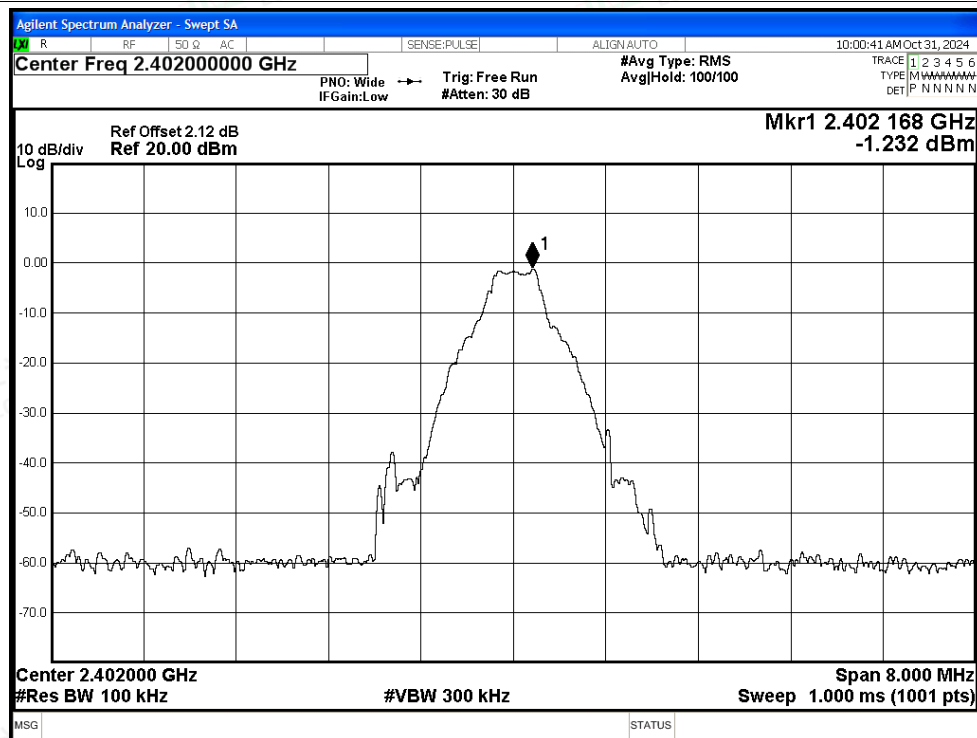


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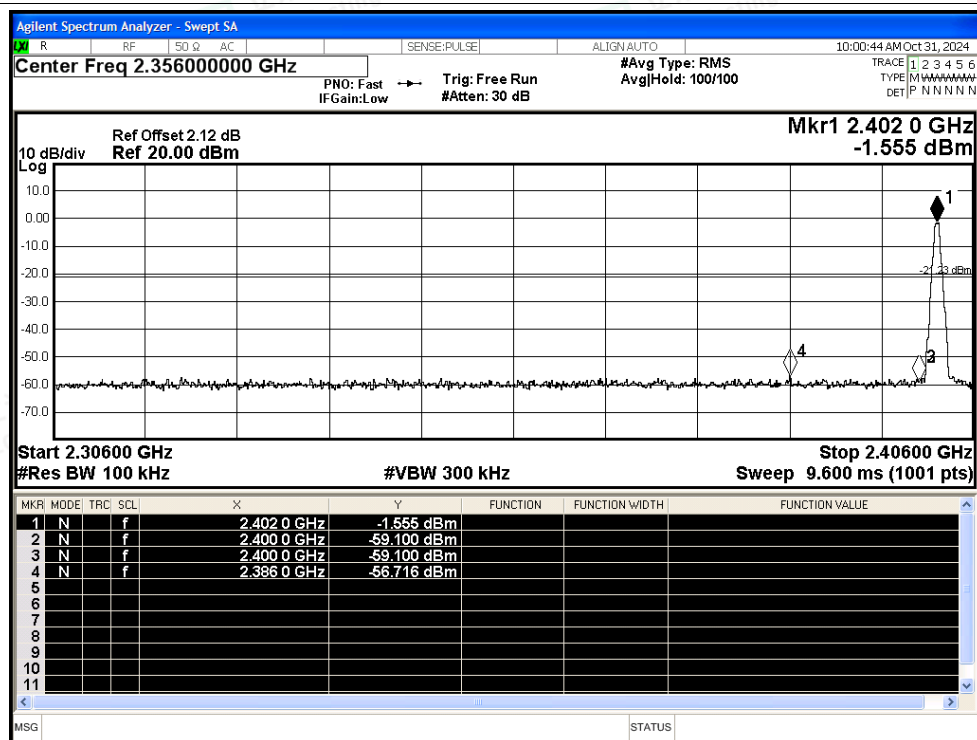


Test Graphs

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



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

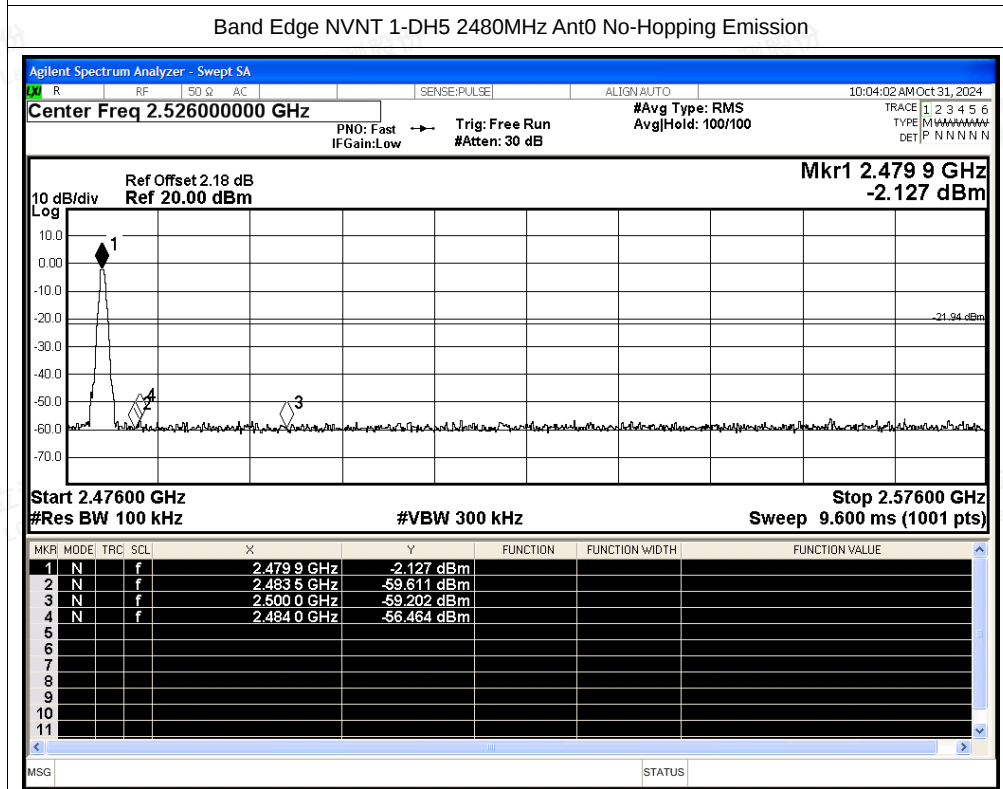
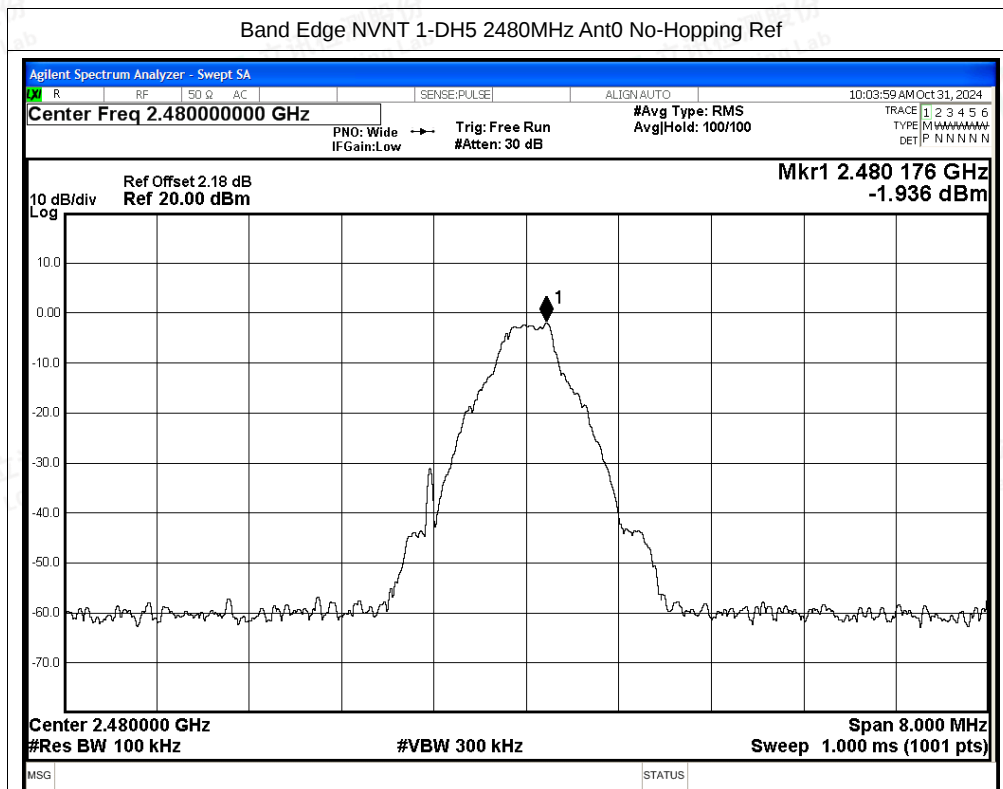


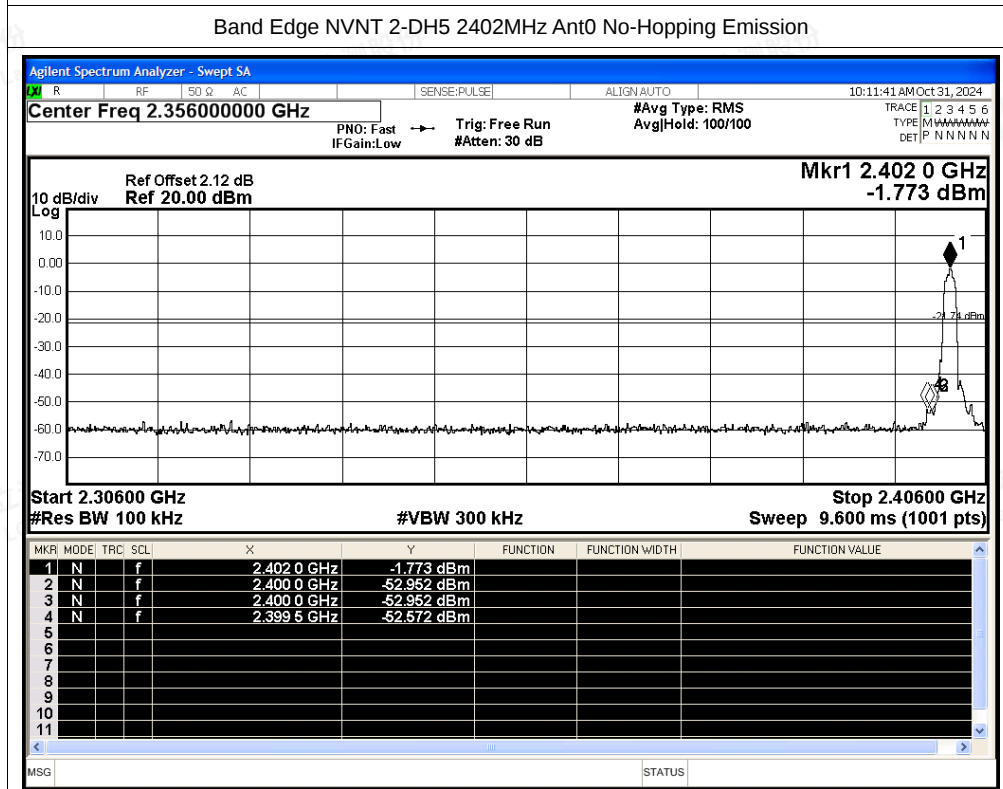
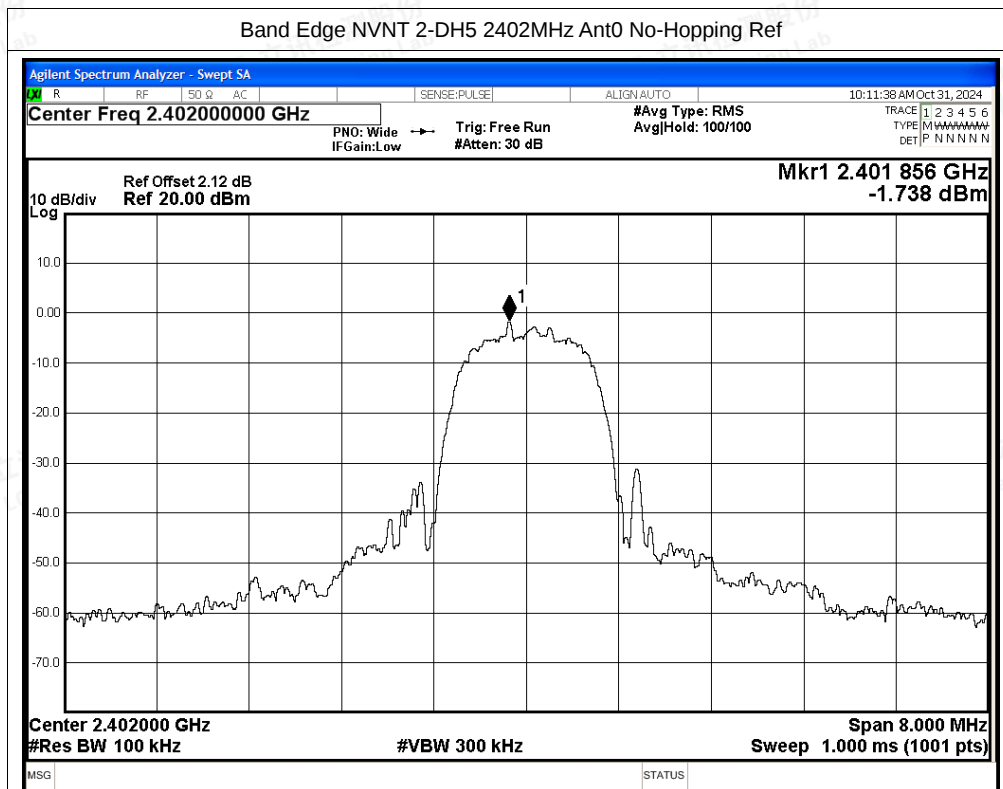
Shenzhen LCS Compliance Testing Laboratory Ltd.

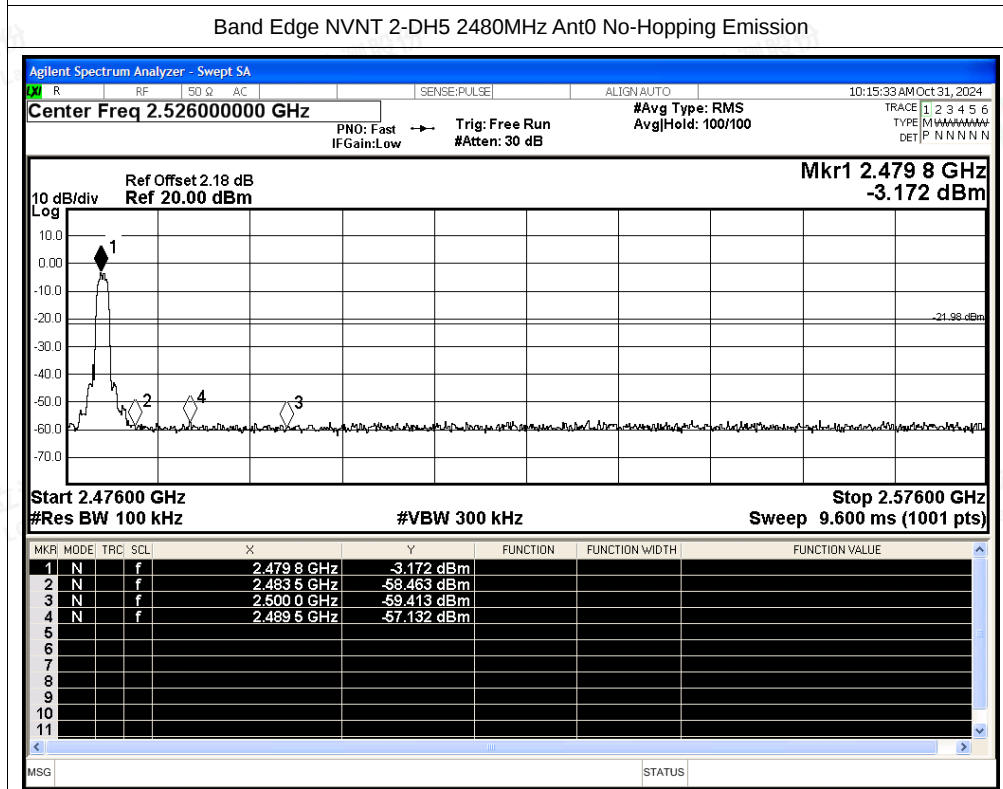
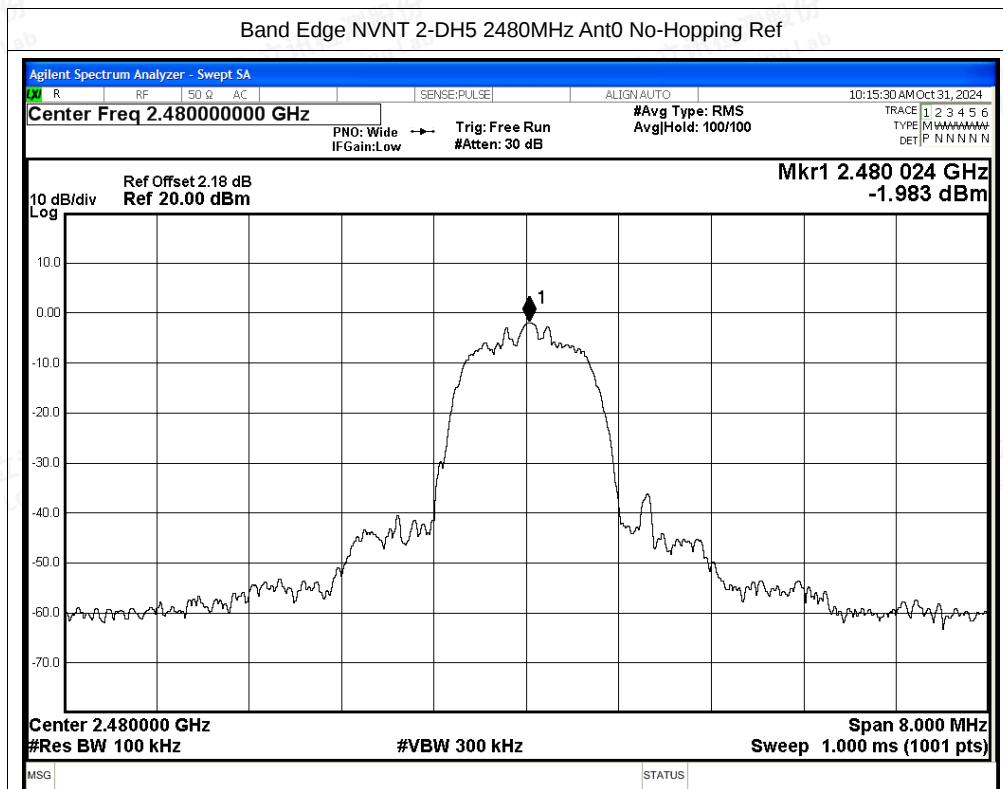
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

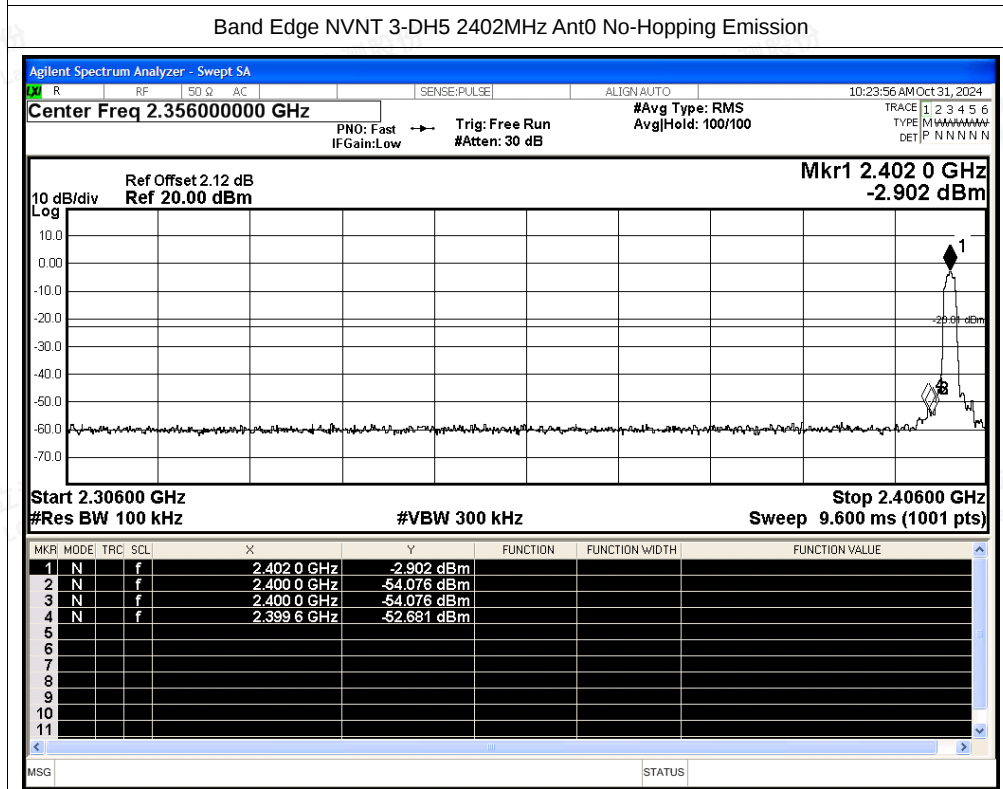
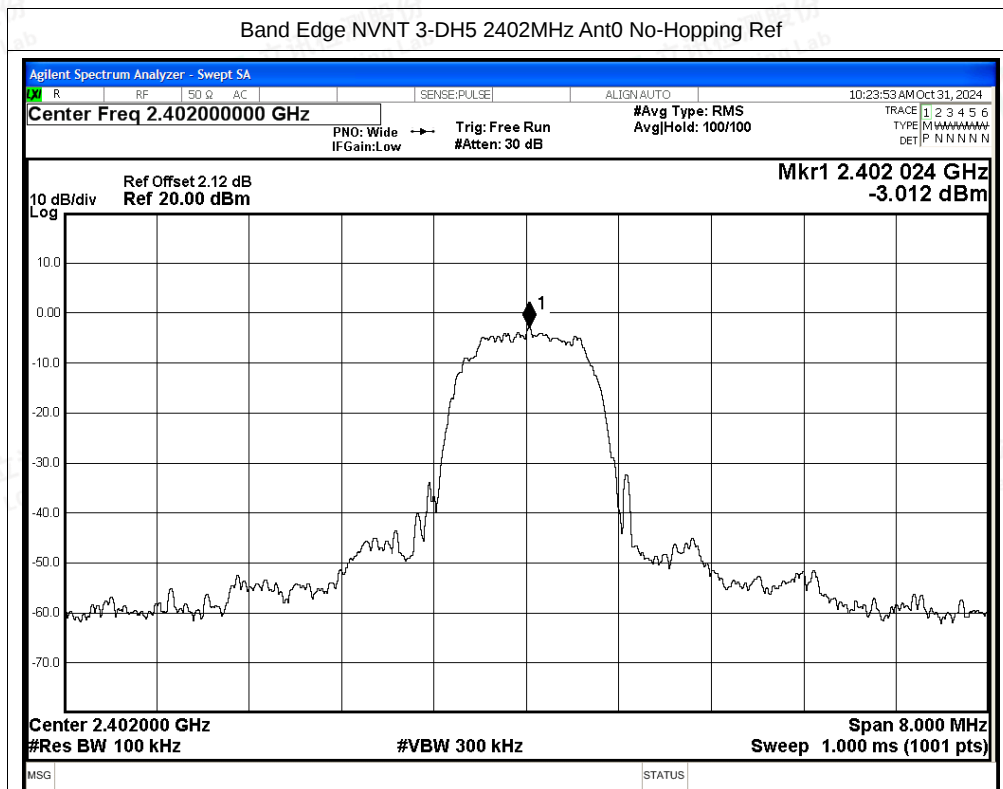
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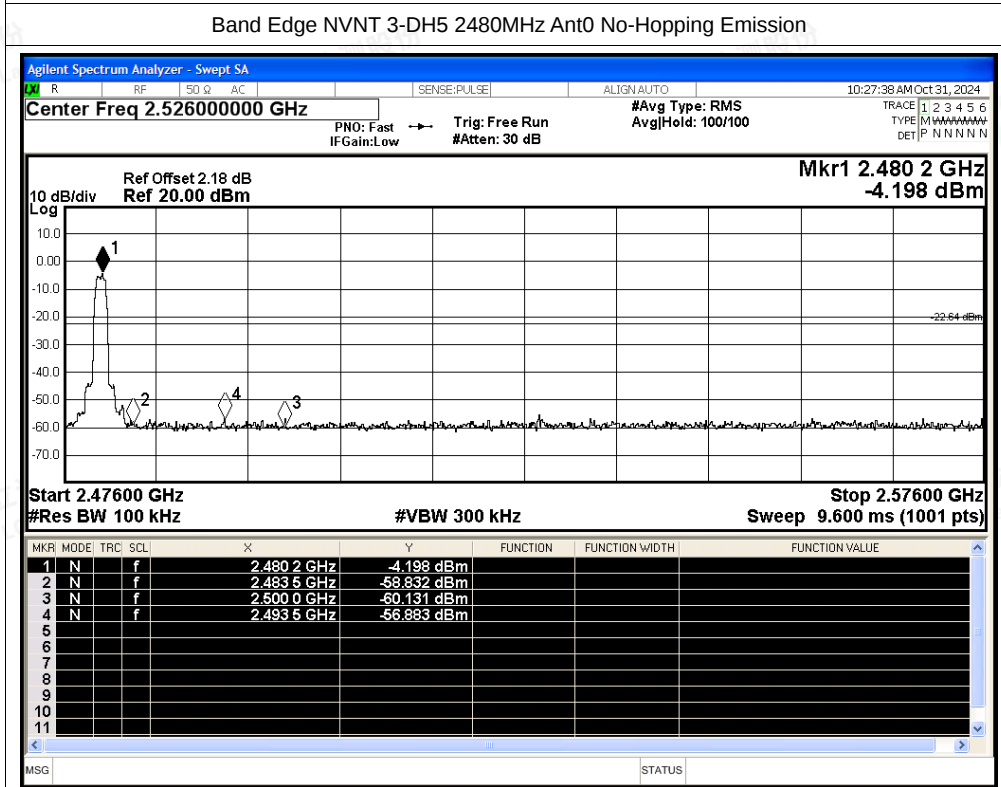
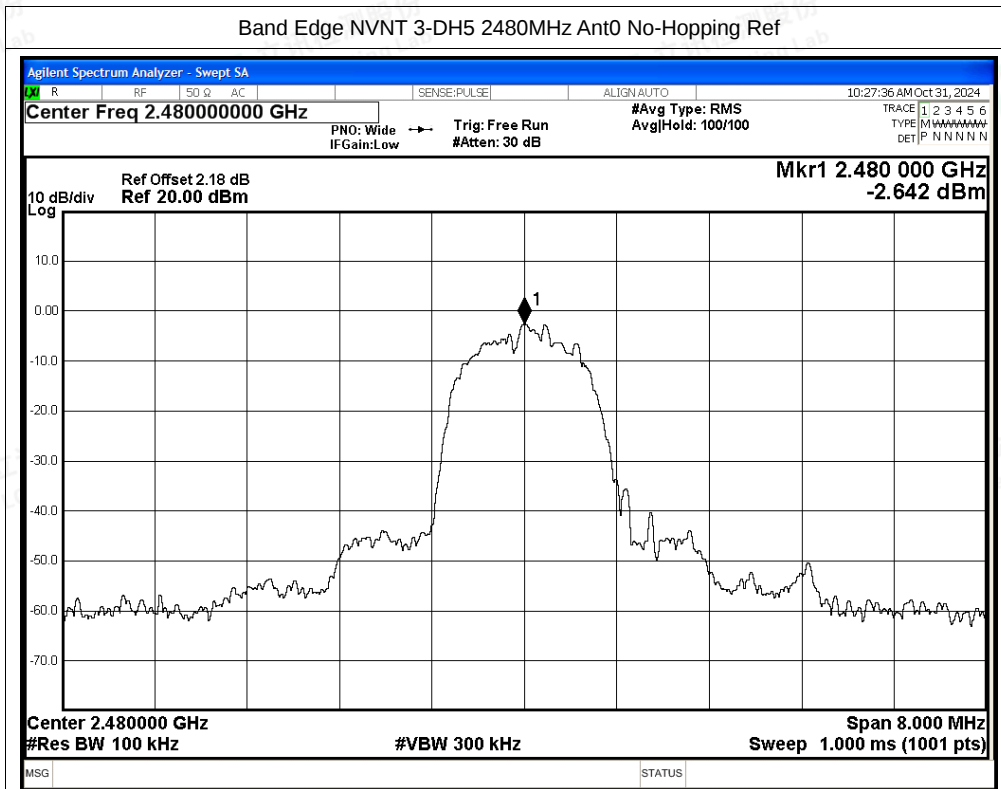
Scan code to check authenticity













(Hopping)

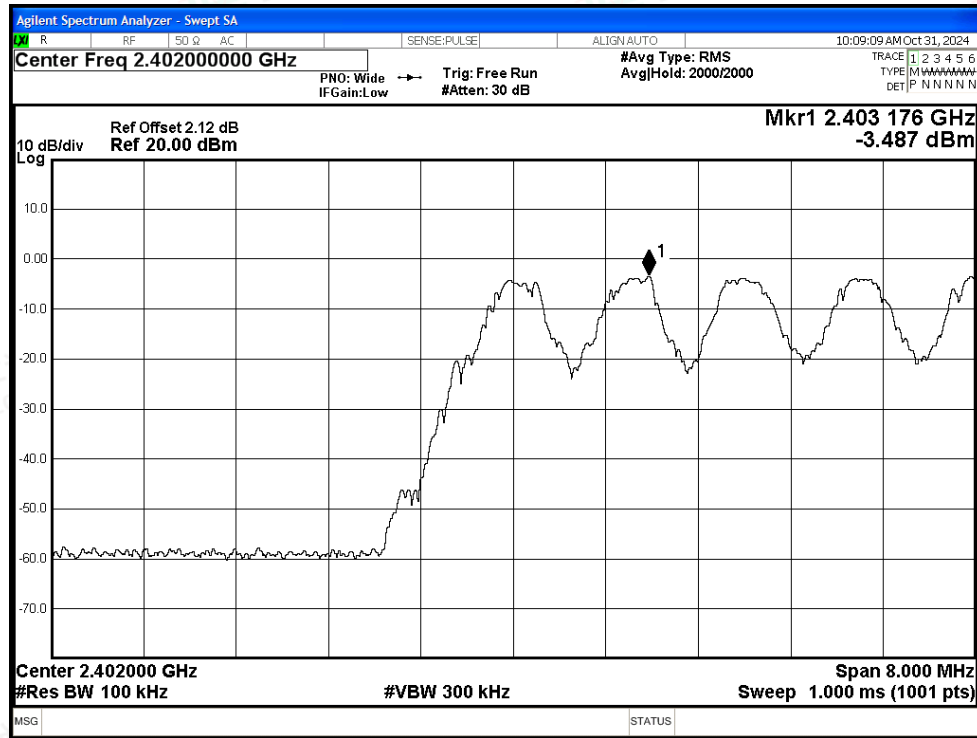
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	Hopping	-52.61	-20	Pass
NVNT	1-DH5	2480	Ant0	Hopping	-54.29	-20	Pass
NVNT	2-DH5	2402	Ant0	Hopping	-52.49	-20	Pass
NVNT	2-DH5	2480	Ant0	Hopping	-53.82	-20	Pass
NVNT	3-DH5	2402	Ant0	Hopping	-49.88	-20	Pass
NVNT	3-DH5	2480	Ant0	Hopping	-53.3	-20	Pass



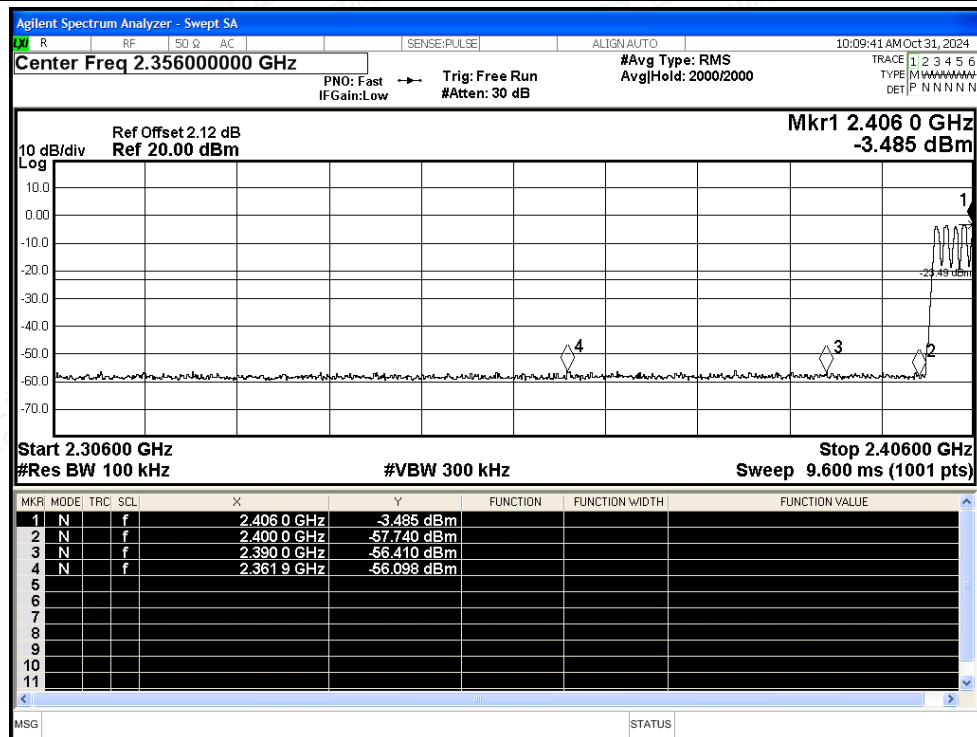


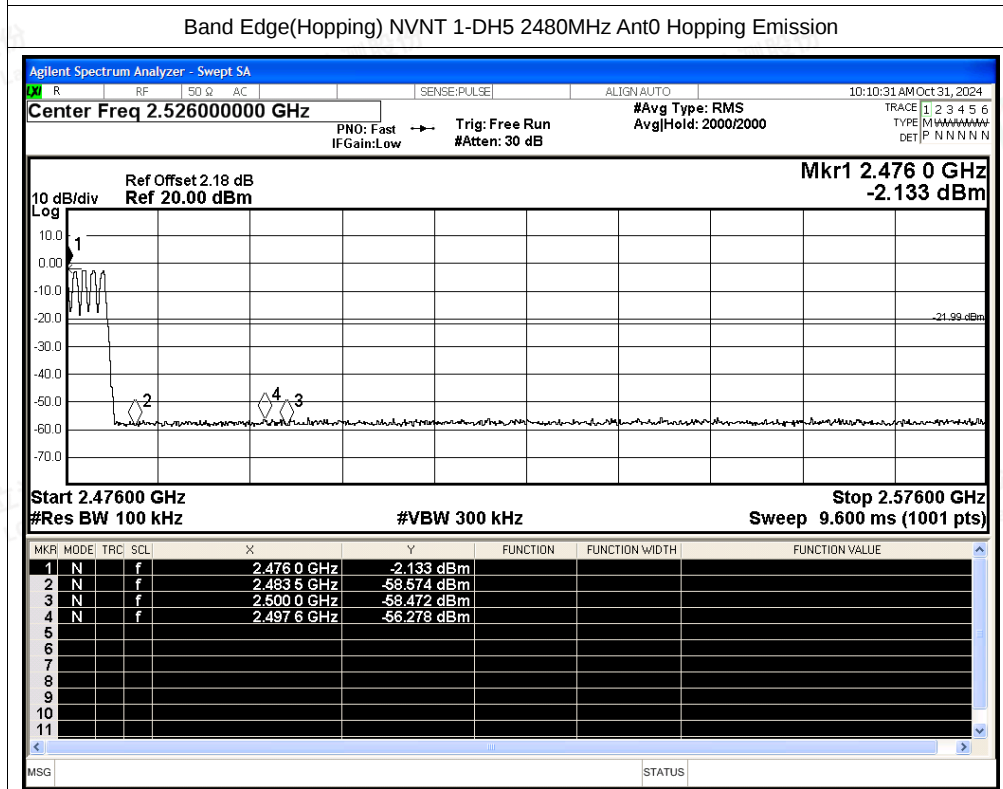
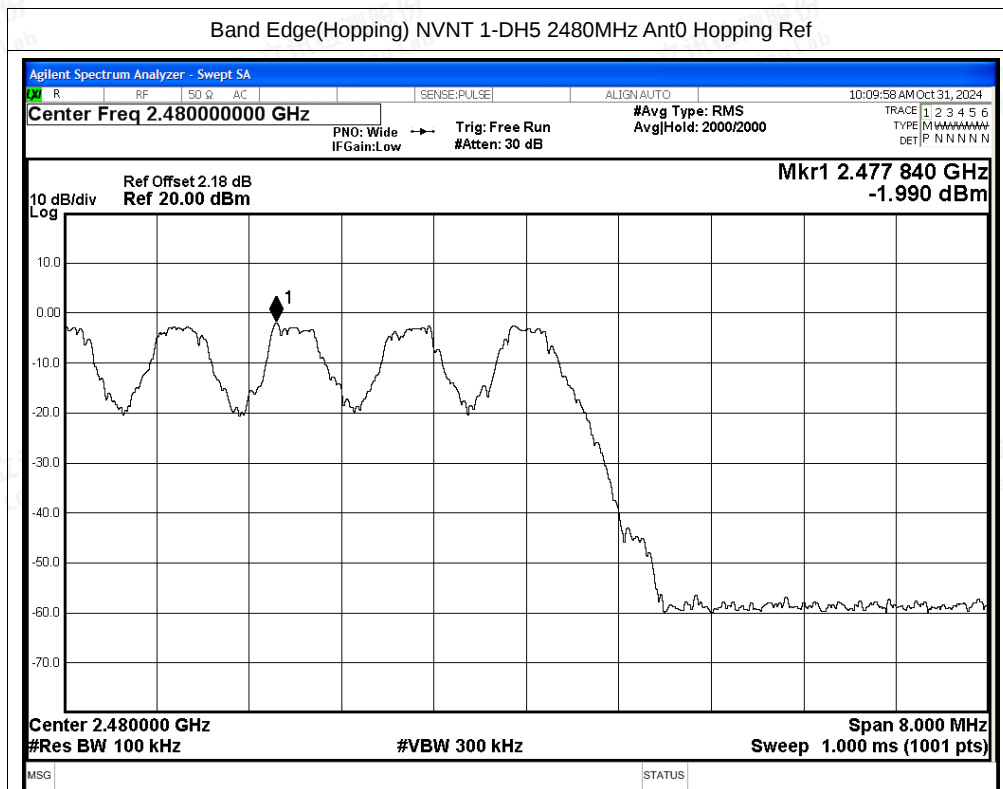
Test Graphs

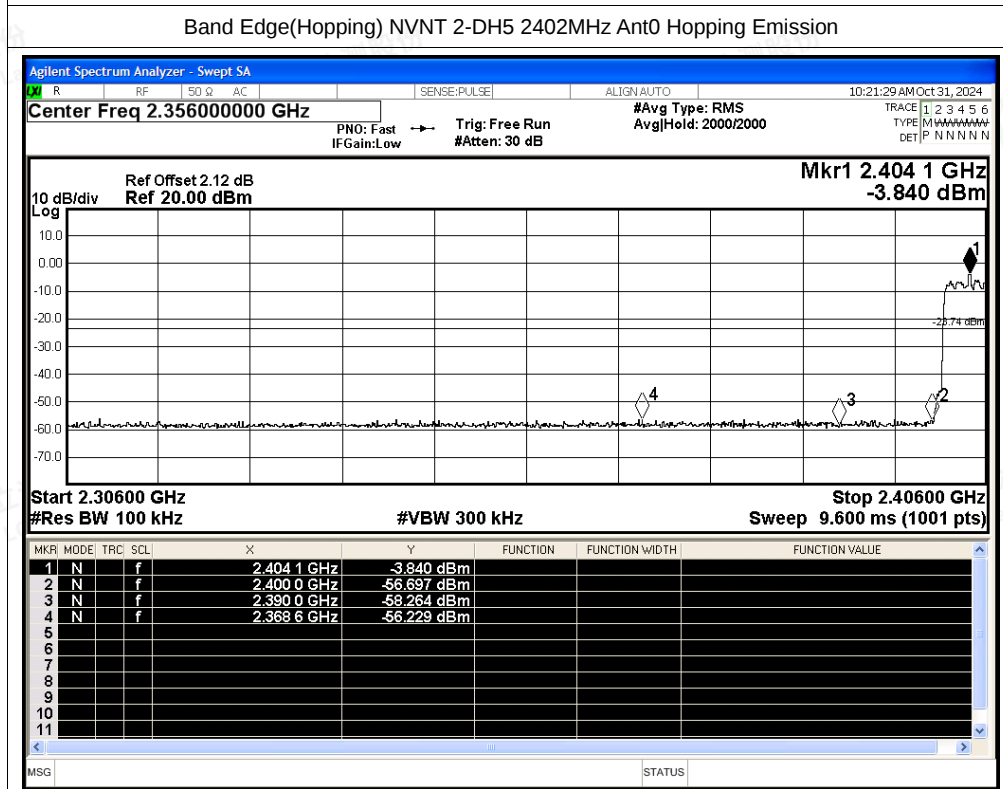
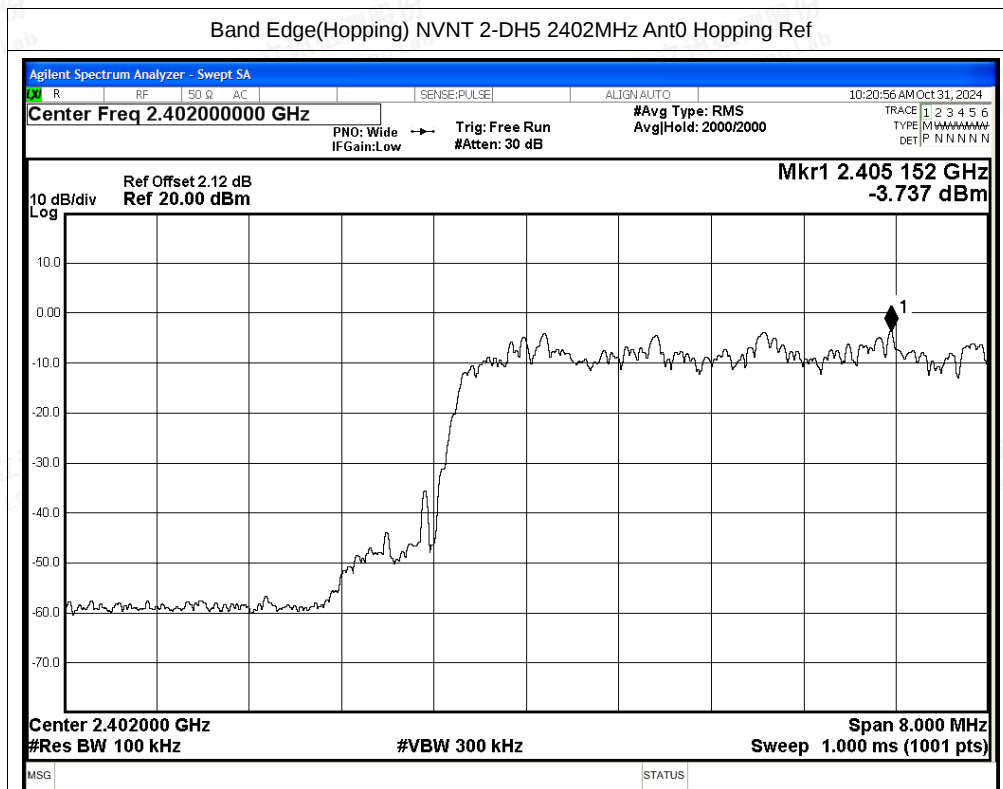
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Ref

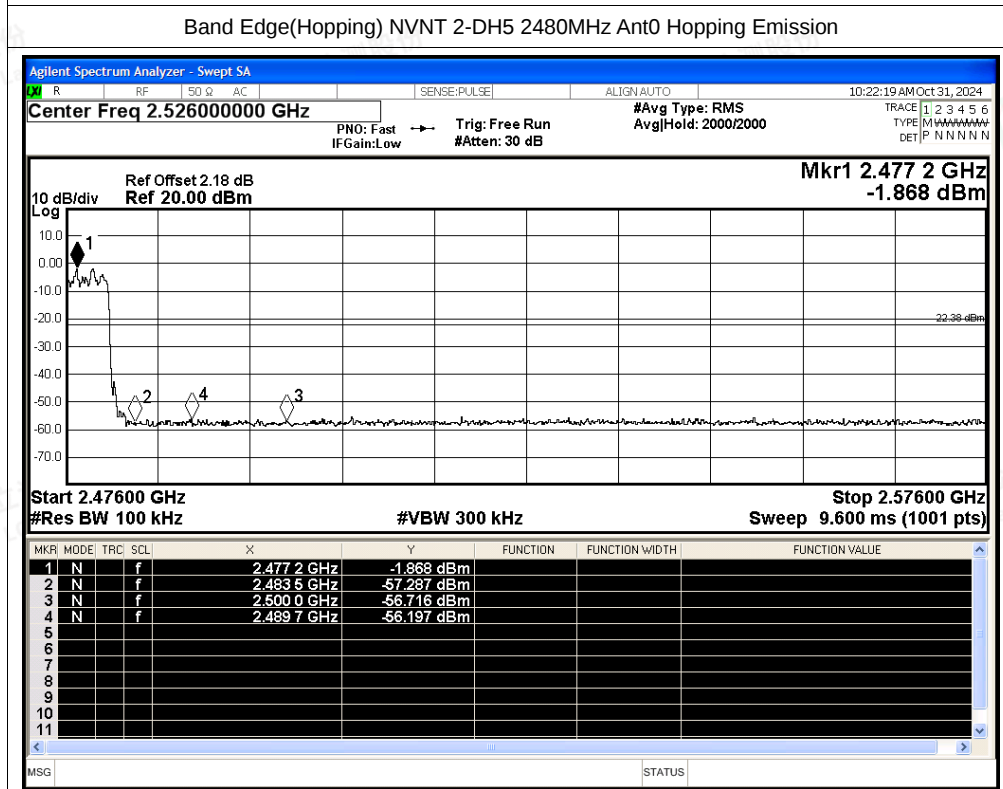
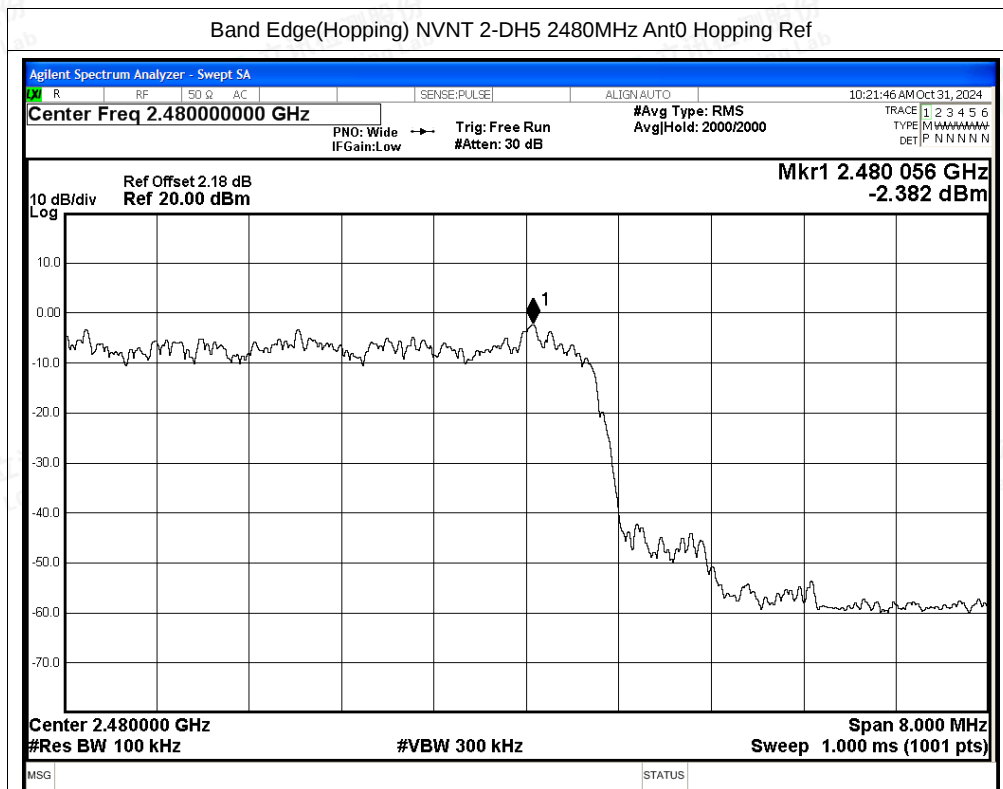


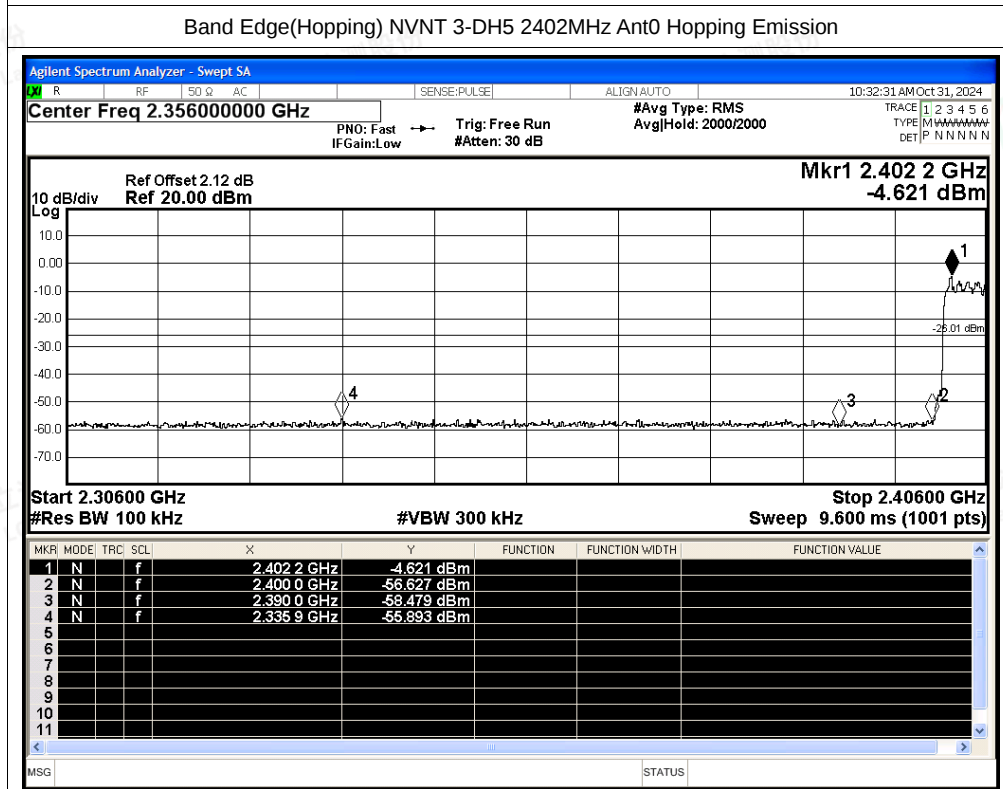
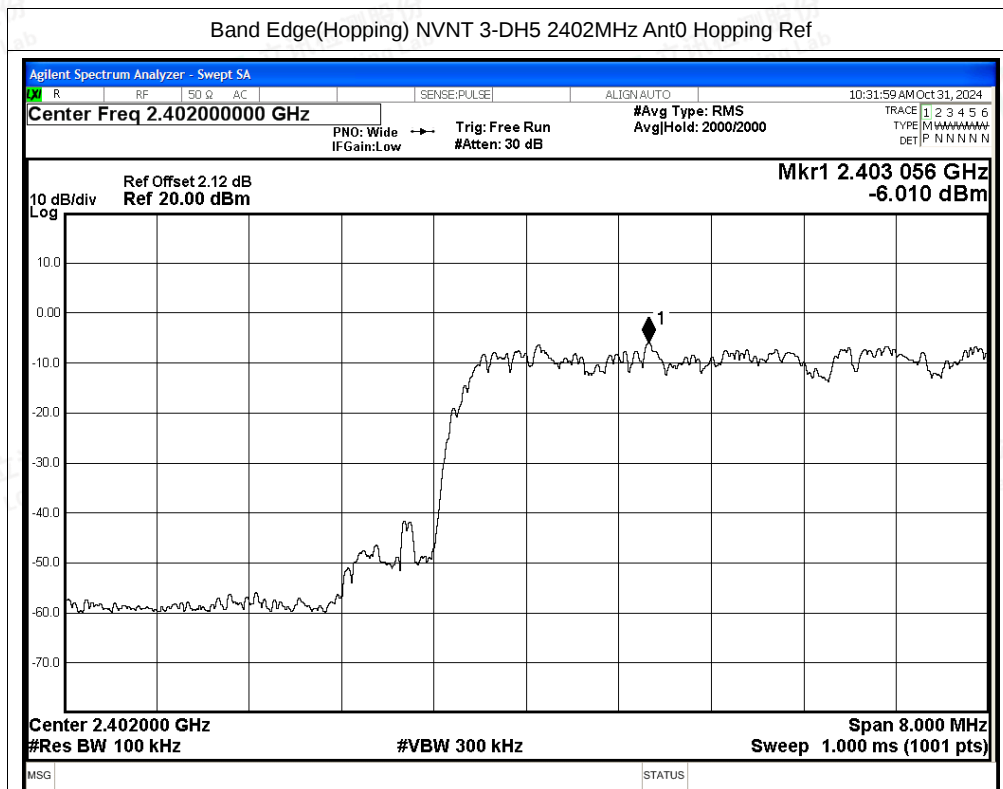
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Emission

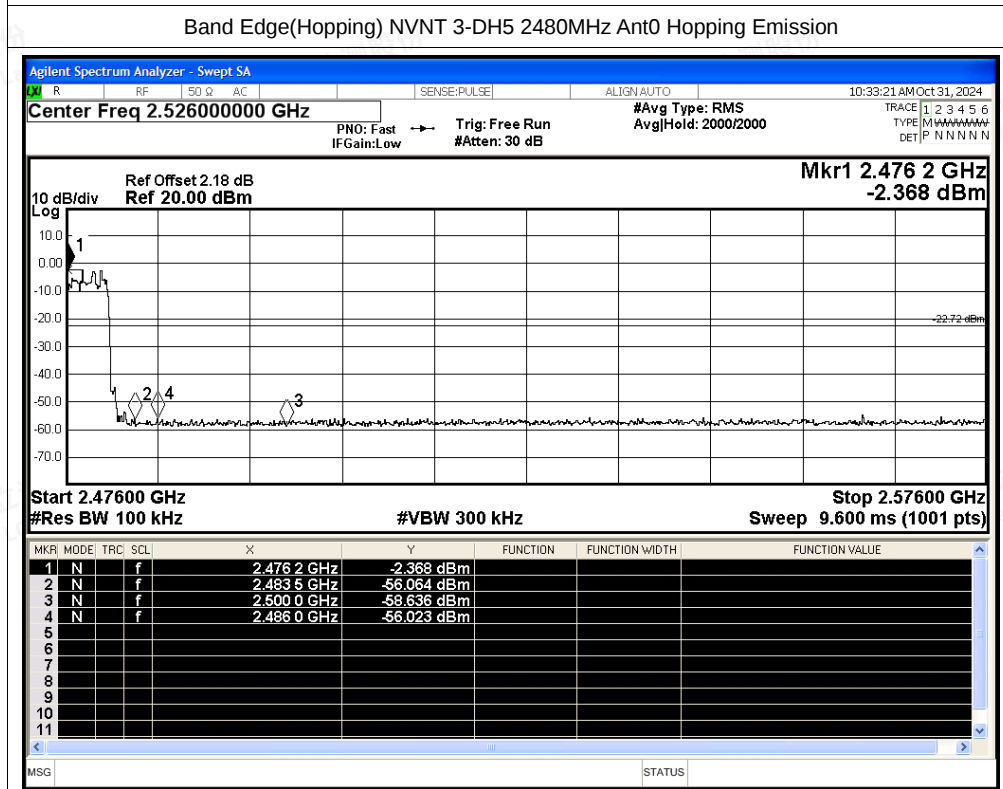
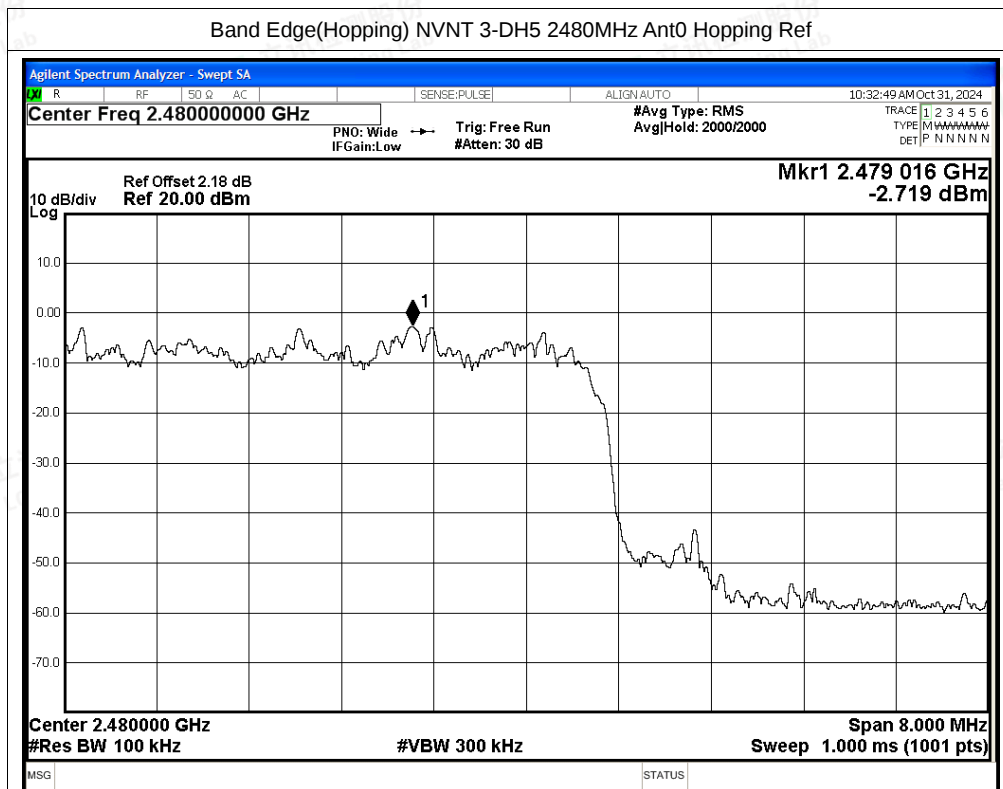














A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	-53.82	-20	Pass
NVNT	1-DH5	2441	Ant0	-53.84	-20	Pass
NVNT	1-DH5	2480	Ant0	-53.6	-20	Pass
NVNT	2-DH5	2402	Ant0	-53.64	-20	Pass
NVNT	2-DH5	2441	Ant0	-53.91	-20	Pass
NVNT	2-DH5	2480	Ant0	-52.52	-20	Pass
NVNT	3-DH5	2402	Ant0	-54.77	-20	Pass
NVNT	3-DH5	2441	Ant0	-53.56	-20	Pass
NVNT	3-DH5	2480	Ant0	-52.31	-20	Pass

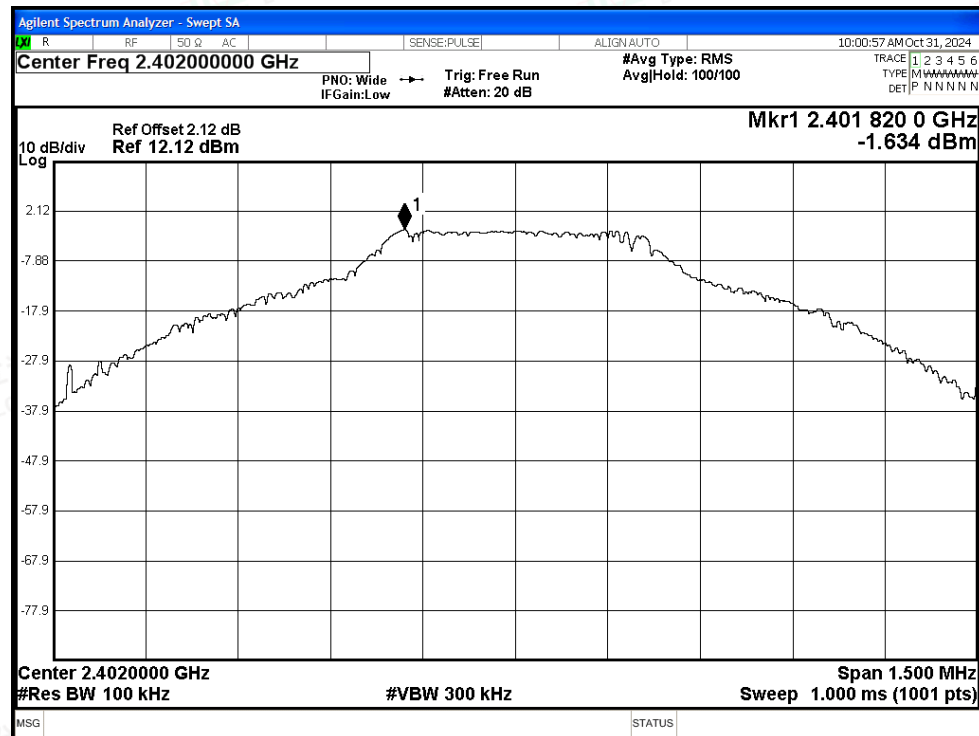


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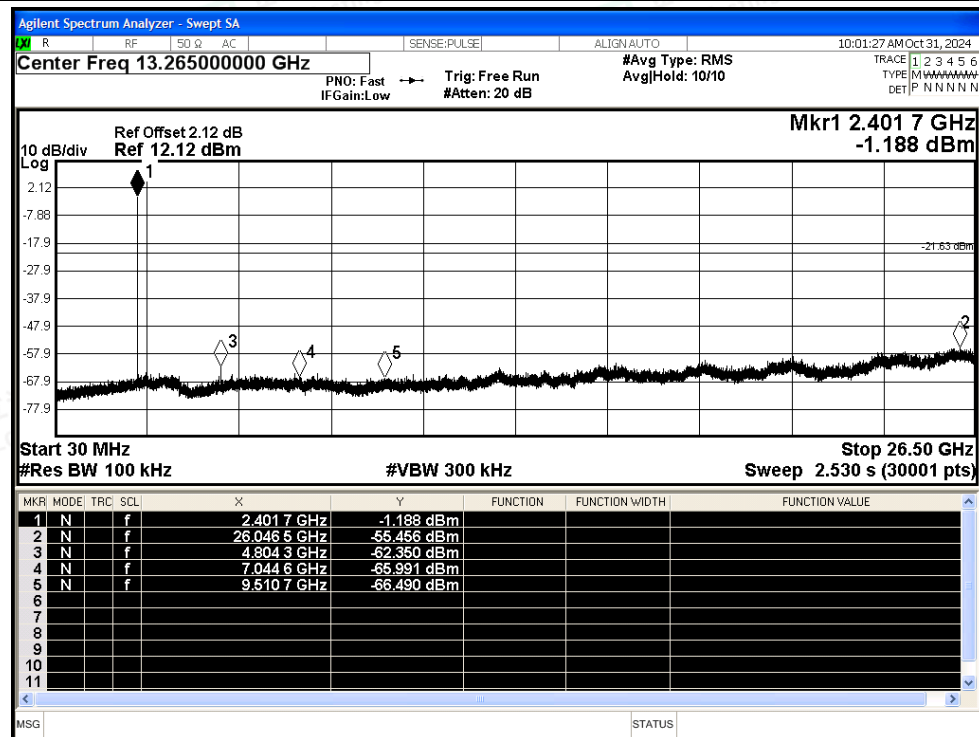


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Ref

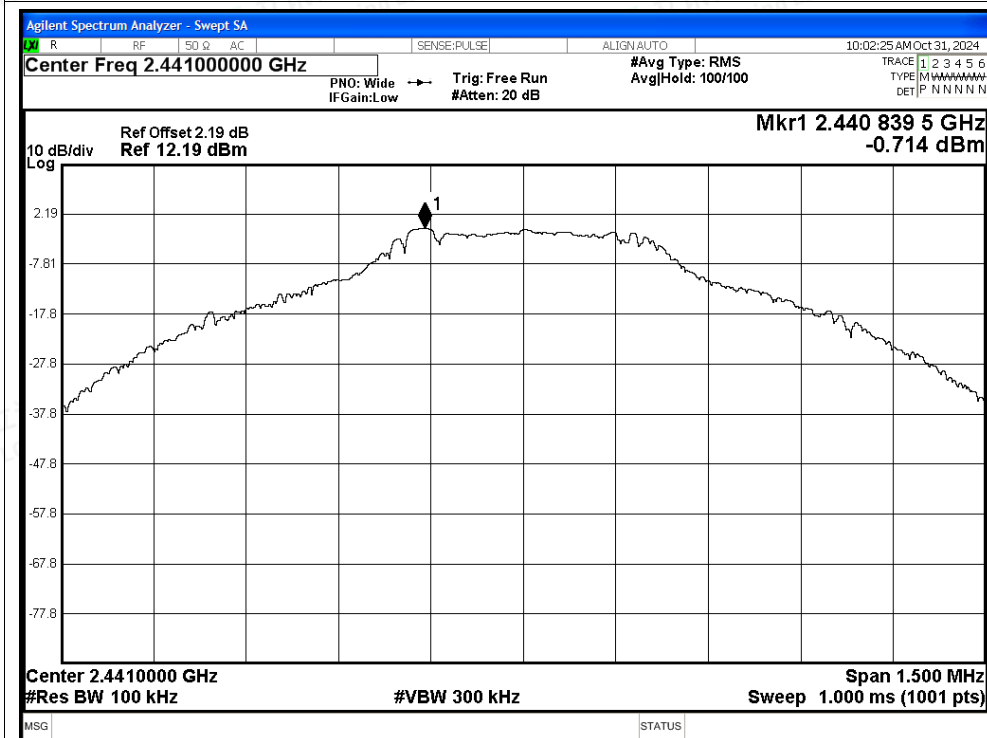


Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Emission

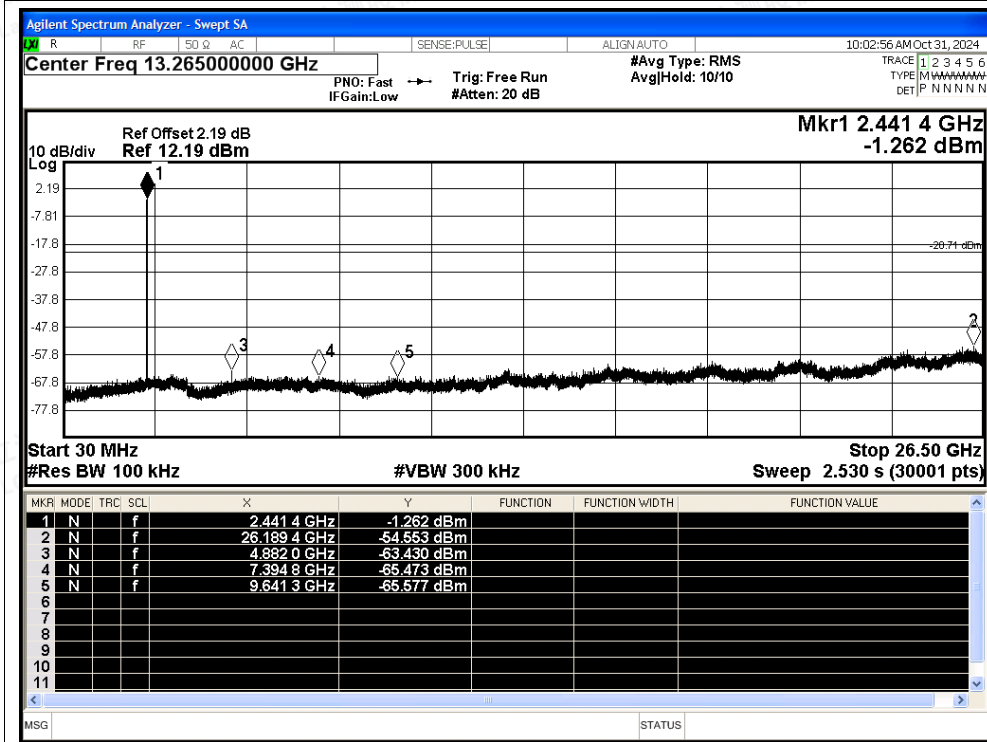




Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Ref

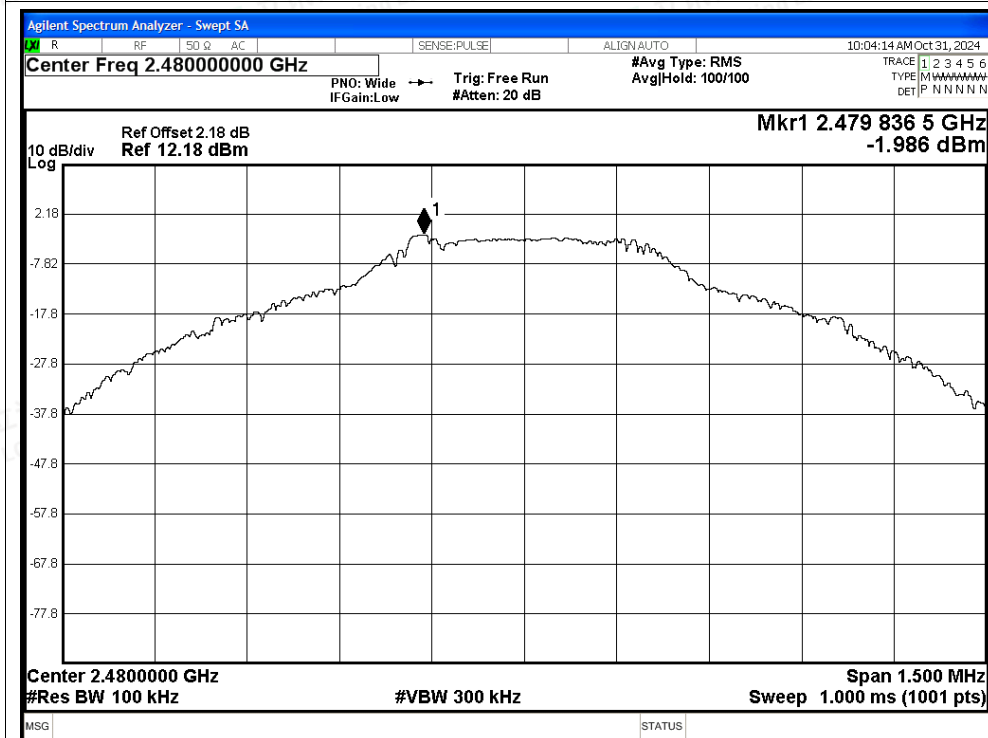


Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Emission

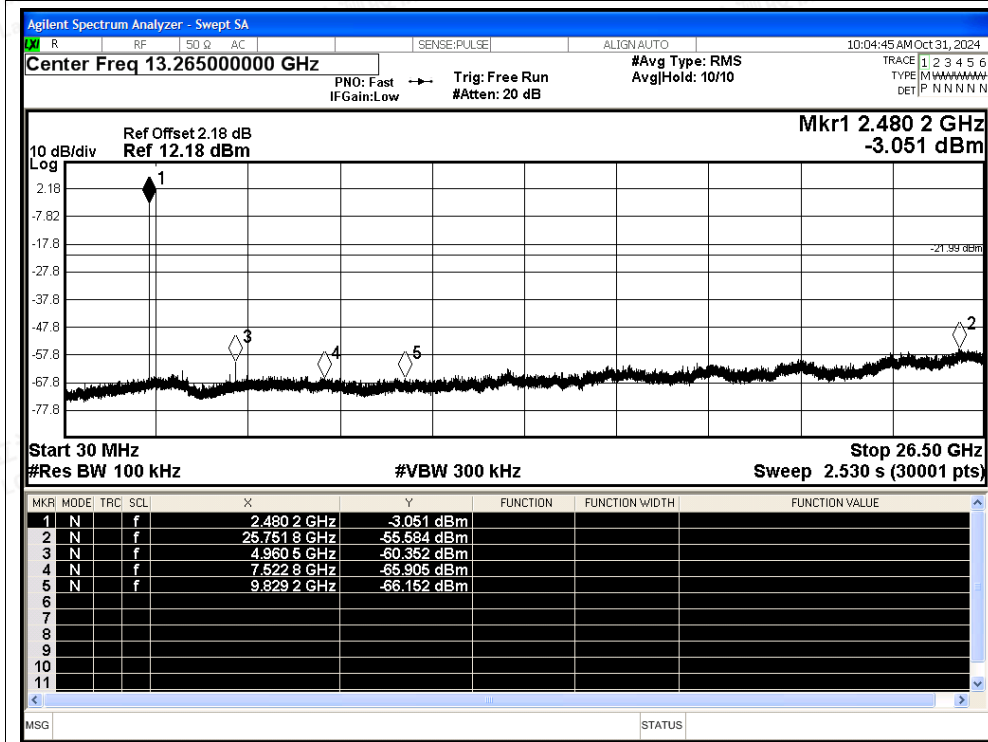




Tx. Spurious NVNT 1-DH5 2480MHz Ant0 Ref

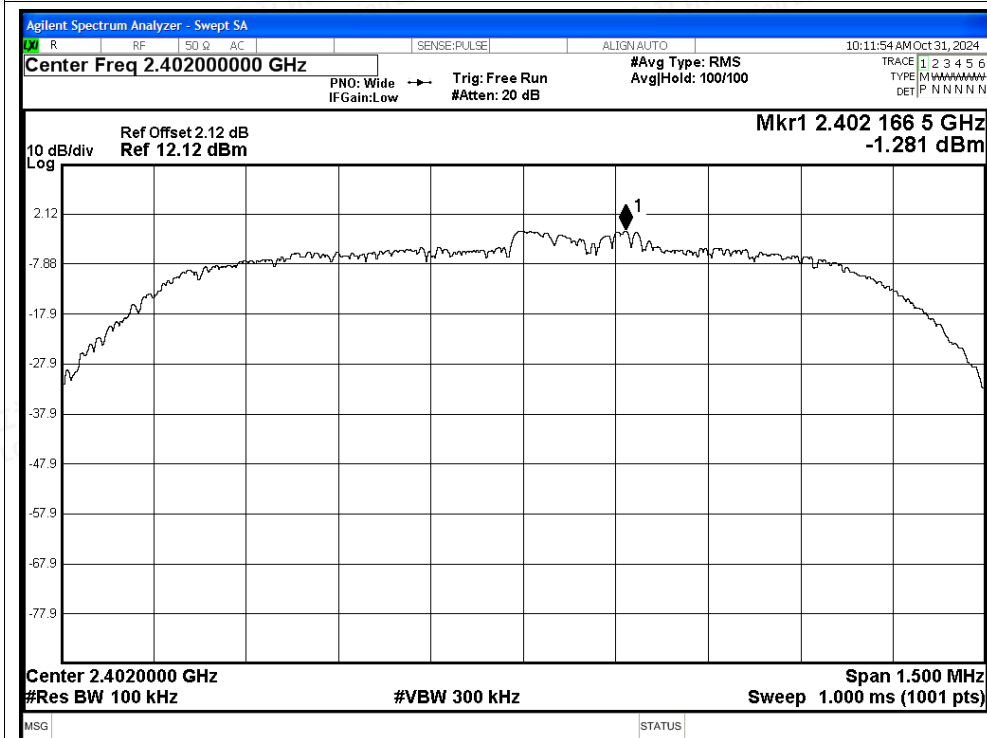


Tx. Spurious NVNT 1-DH5 2480MHz Ant0 Emission

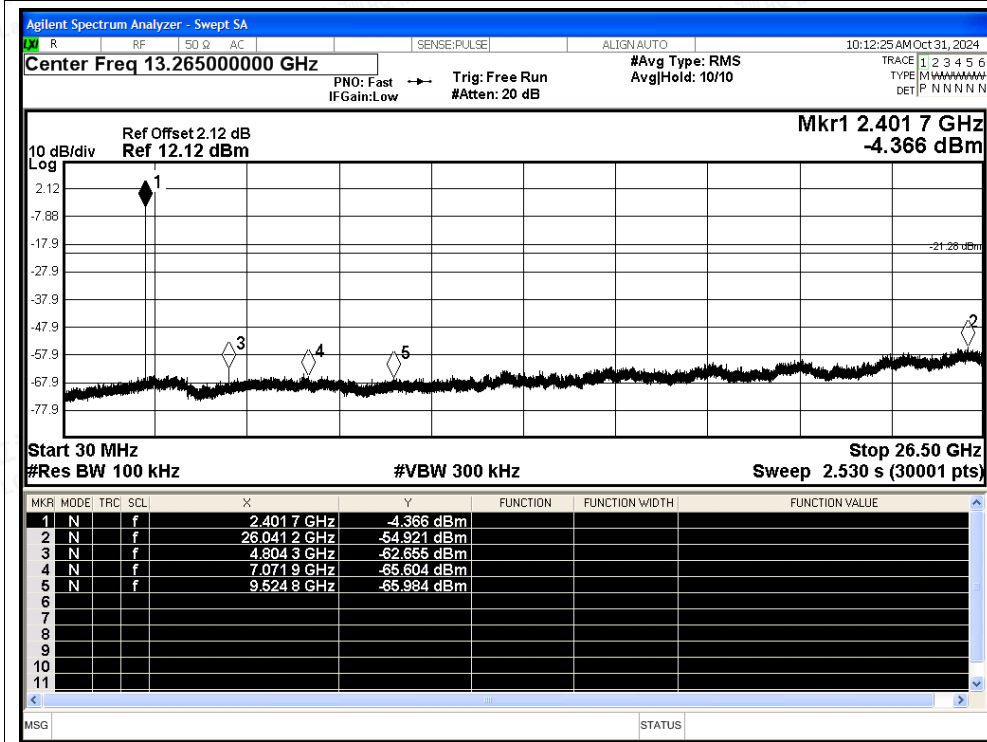




Tx. Spurious NVNT 2-DH5 2402MHz Ant0 Ref

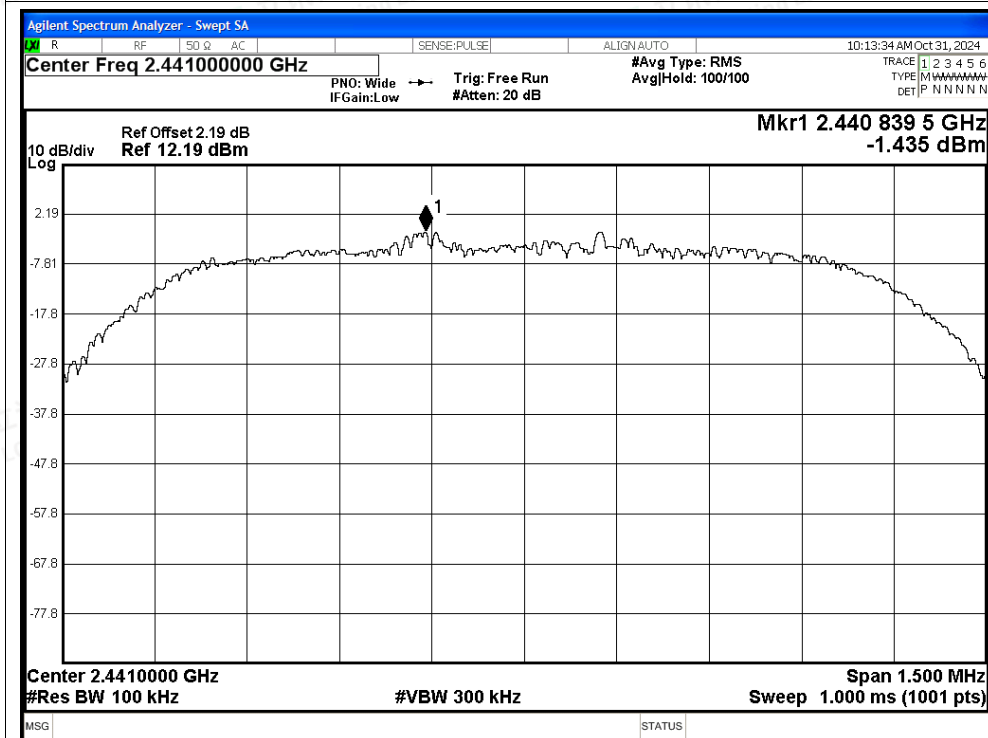


Tx. Spurious NVNT 2-DH5 2402MHz Ant0 Emission

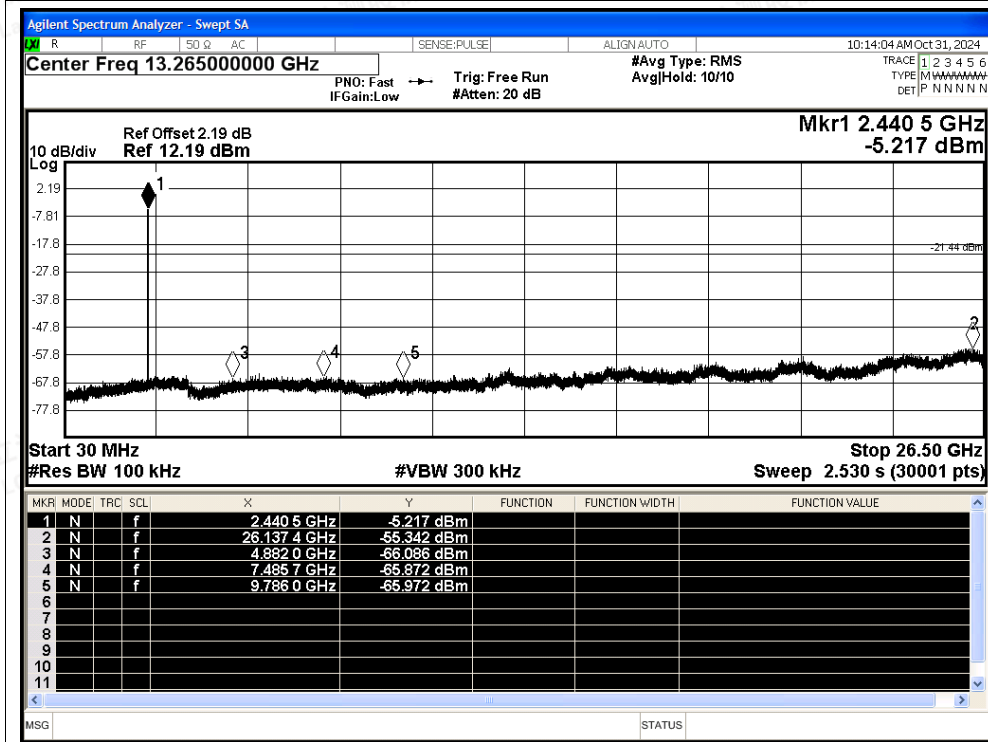




Tx. Spurious NVNT 2-DH5 2441MHz Ant0 Ref

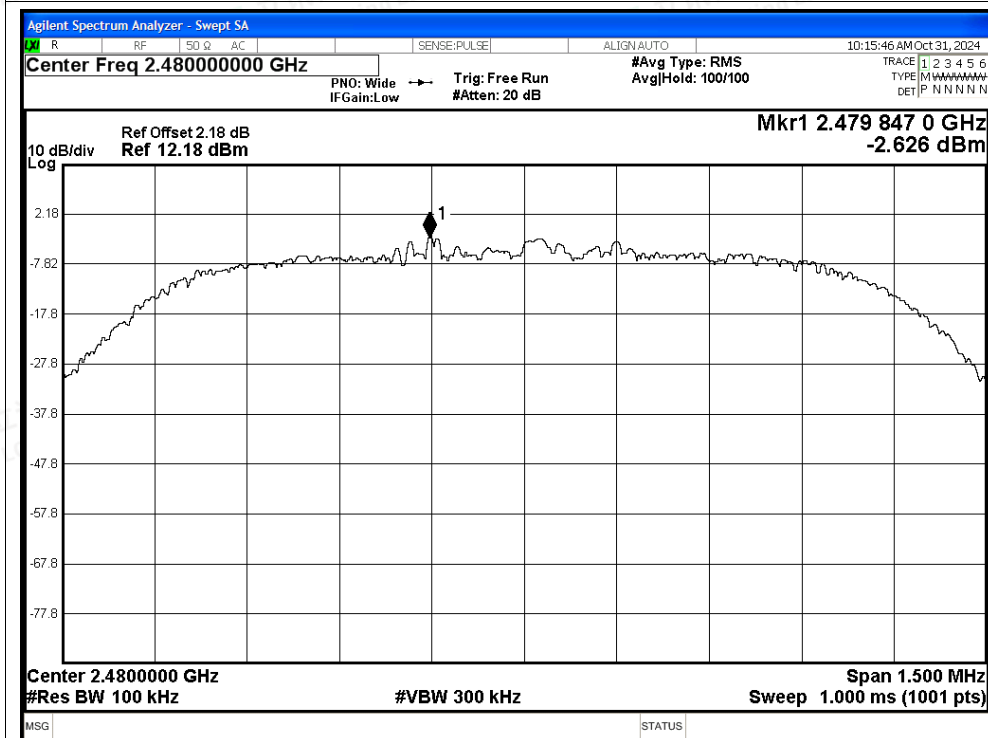


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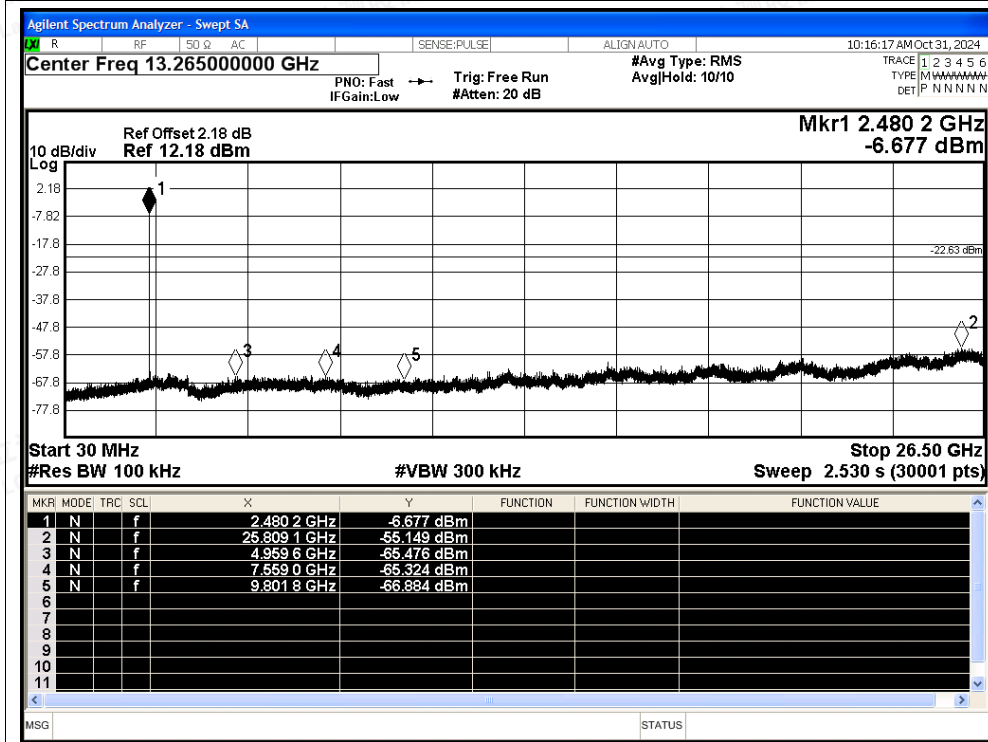




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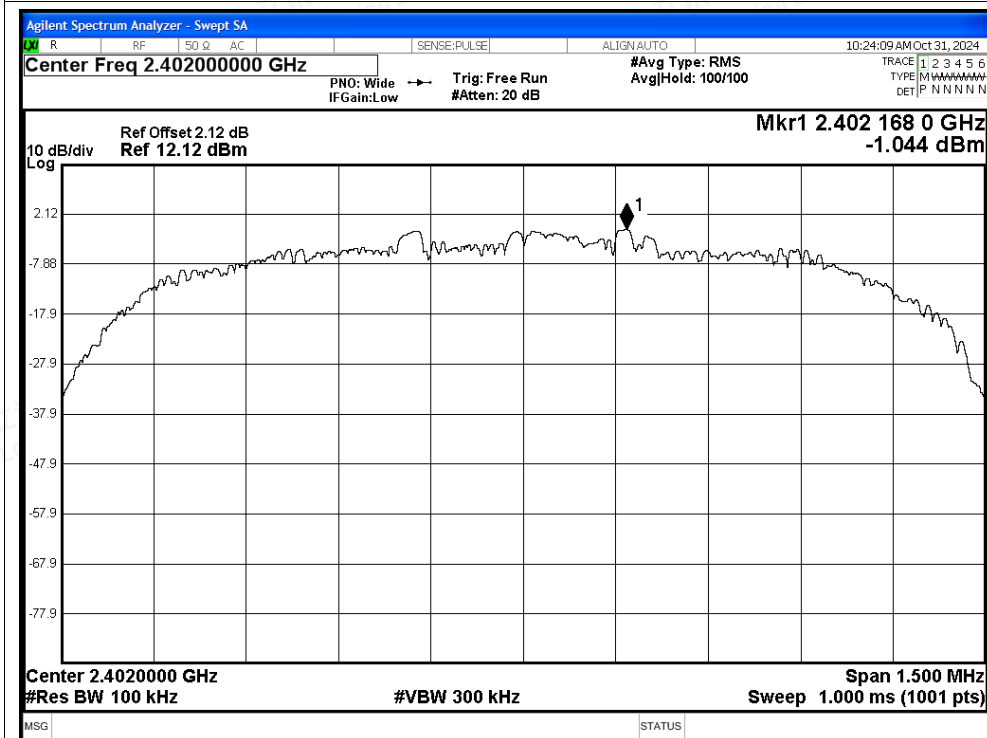


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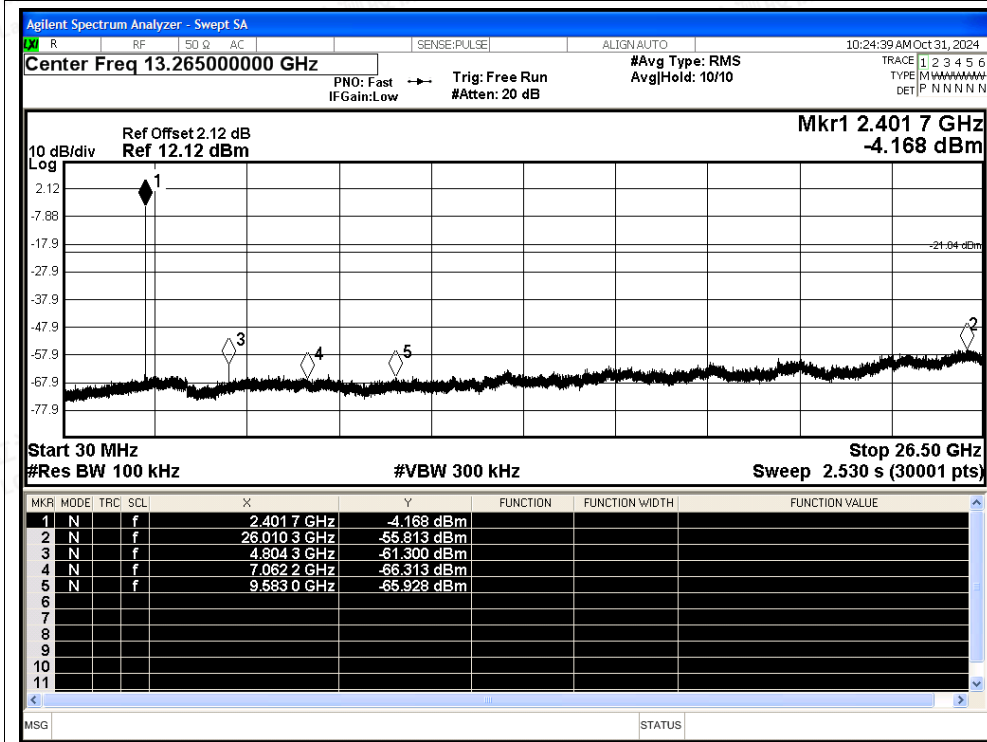




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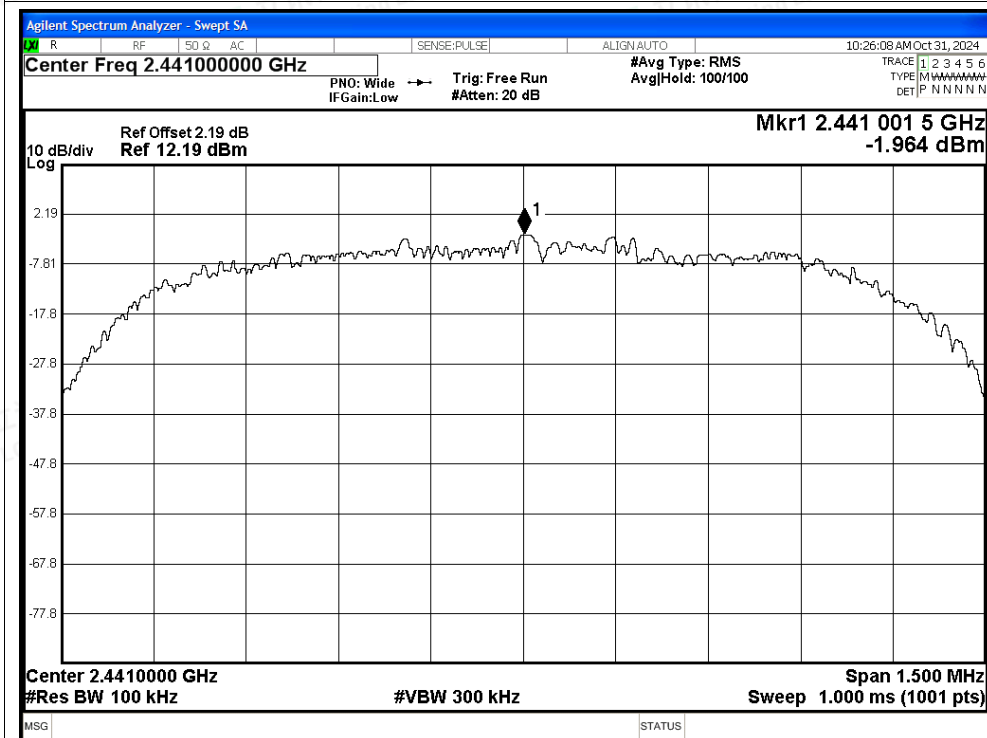


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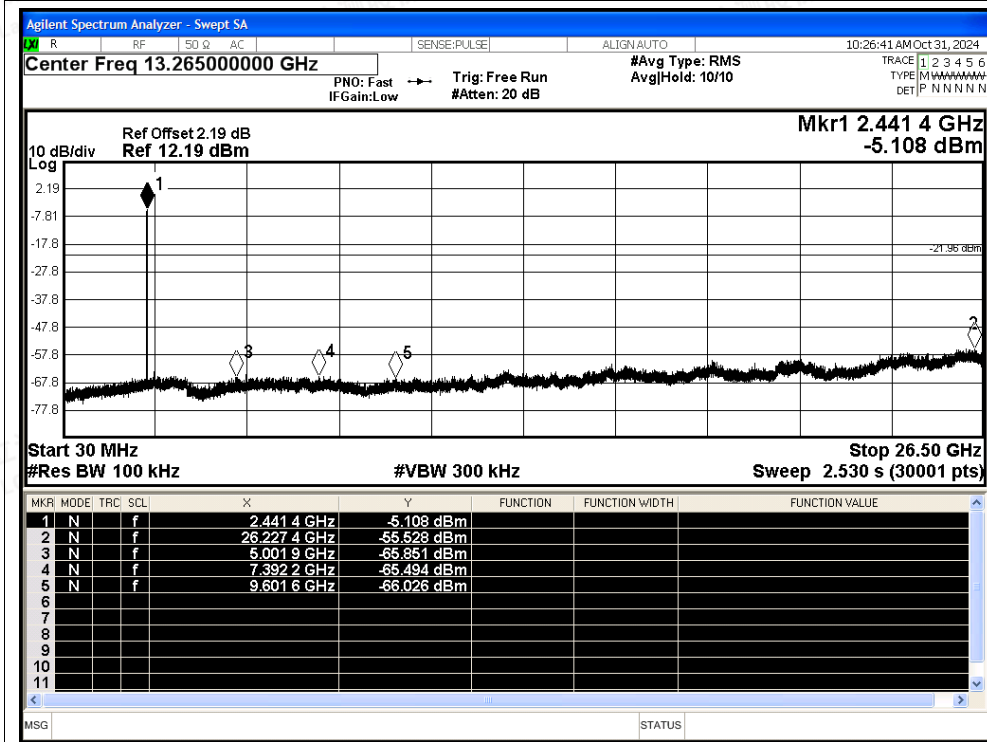




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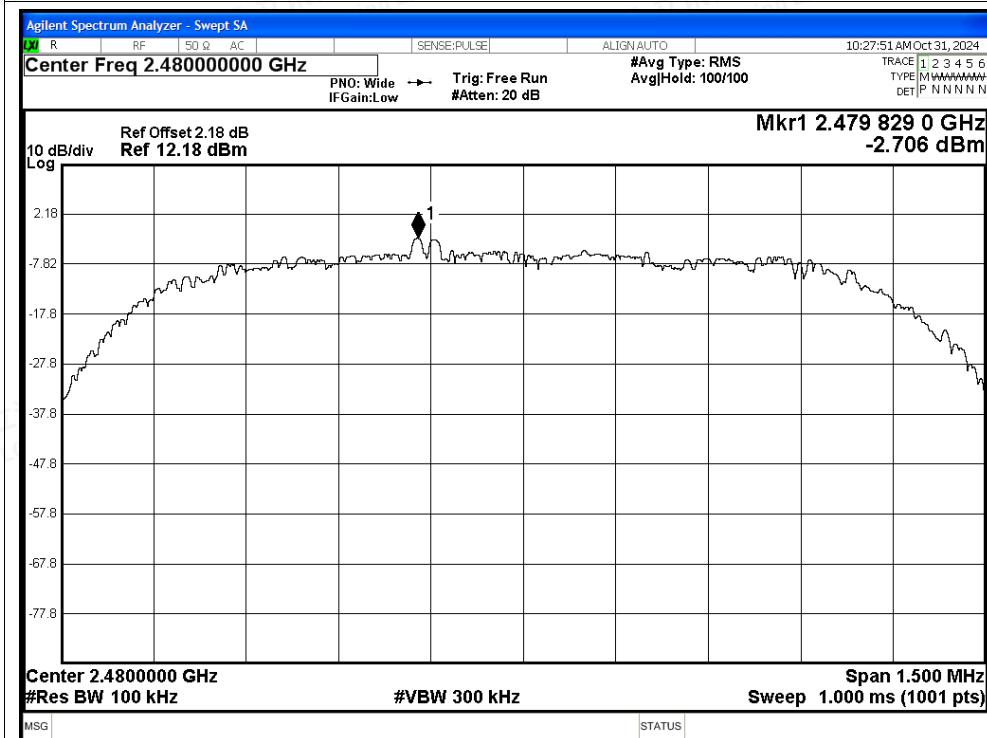


Tx. Spurious NVNT 3-DH5 2441MHz Ant0 Emission

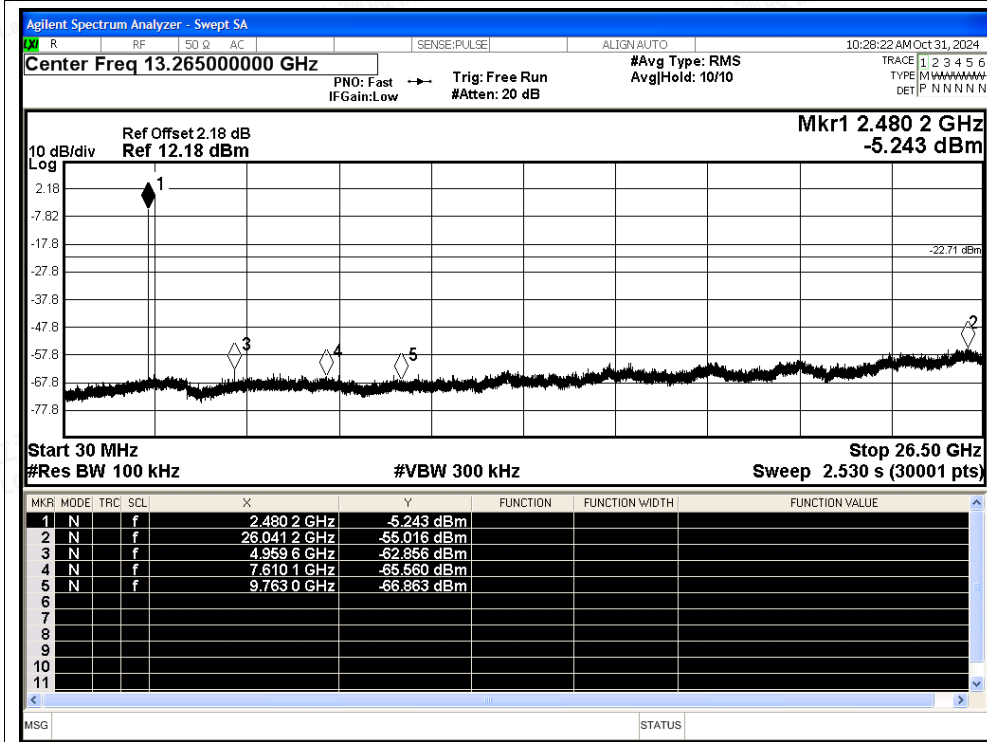




Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Ref



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	77.33	1.12	0.34
NVNT	2-DH5	2441	Ant0	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant0	77.33	1.12	0.34
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

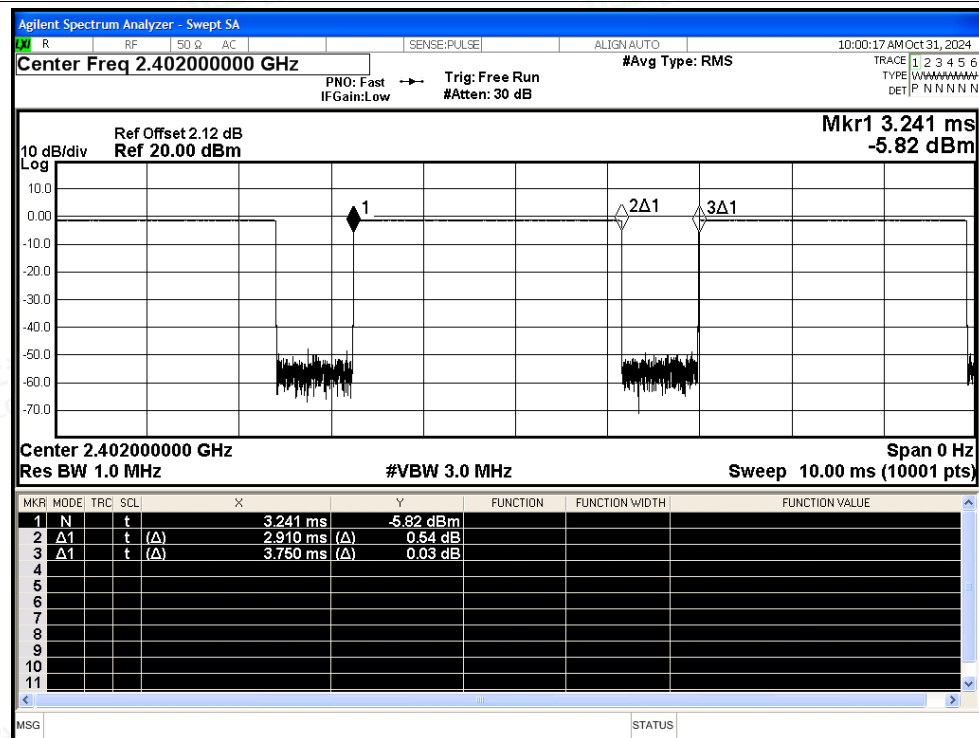


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,
Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

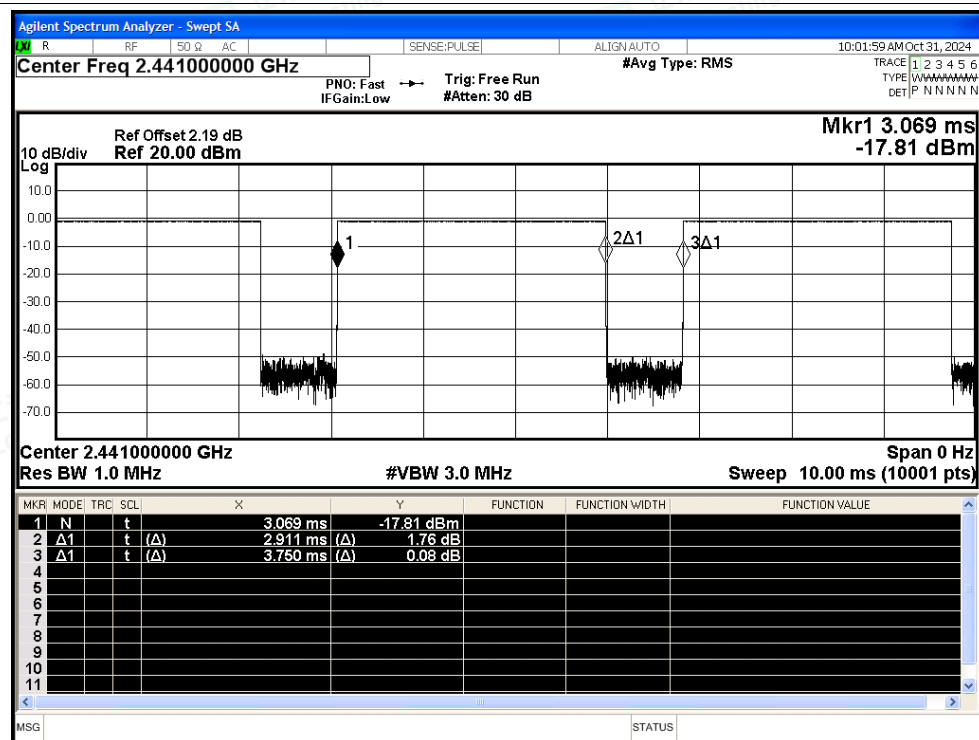


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant0

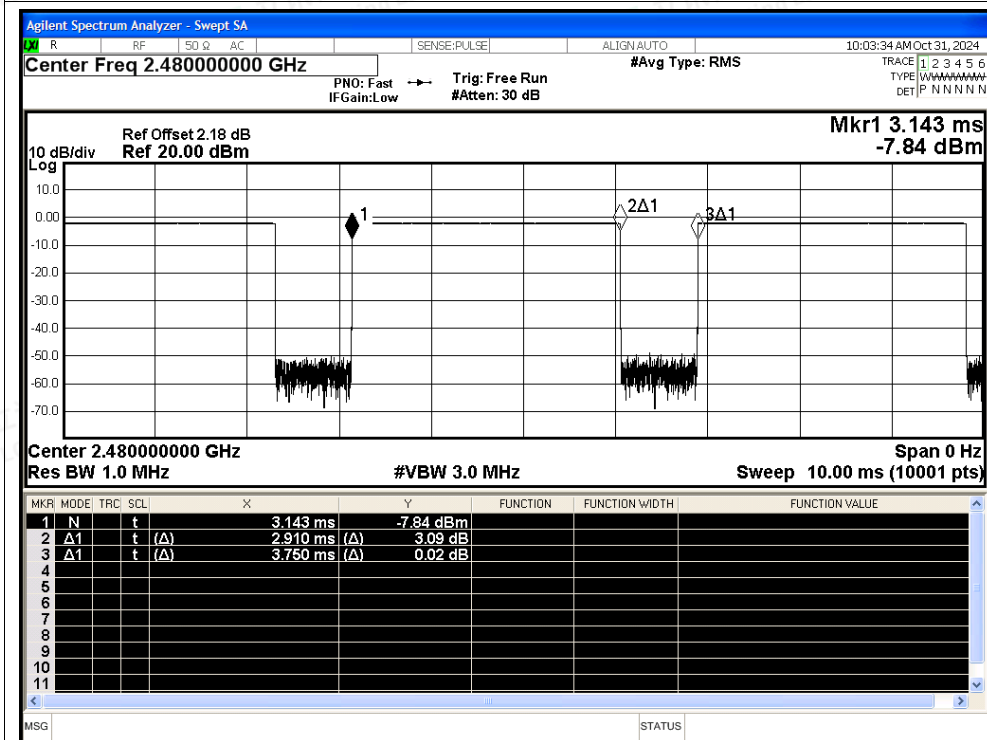


Duty Cycle NVNT 1-DH5 2441MHz Ant0

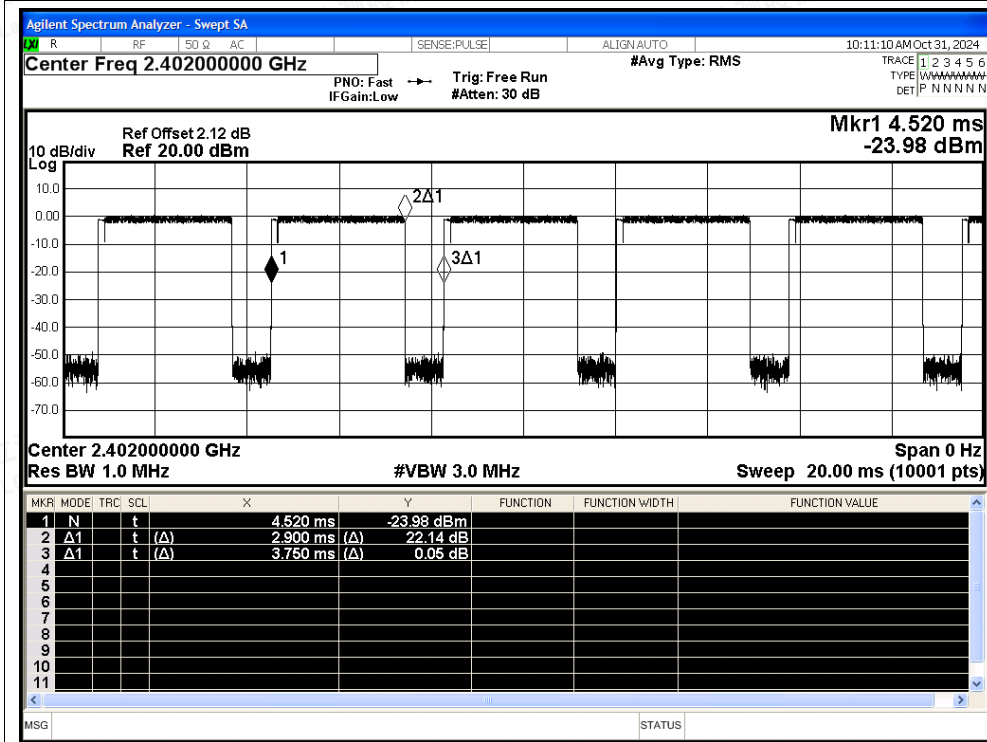




Duty Cycle NVNT 1-DH5 2480MHz Ant0

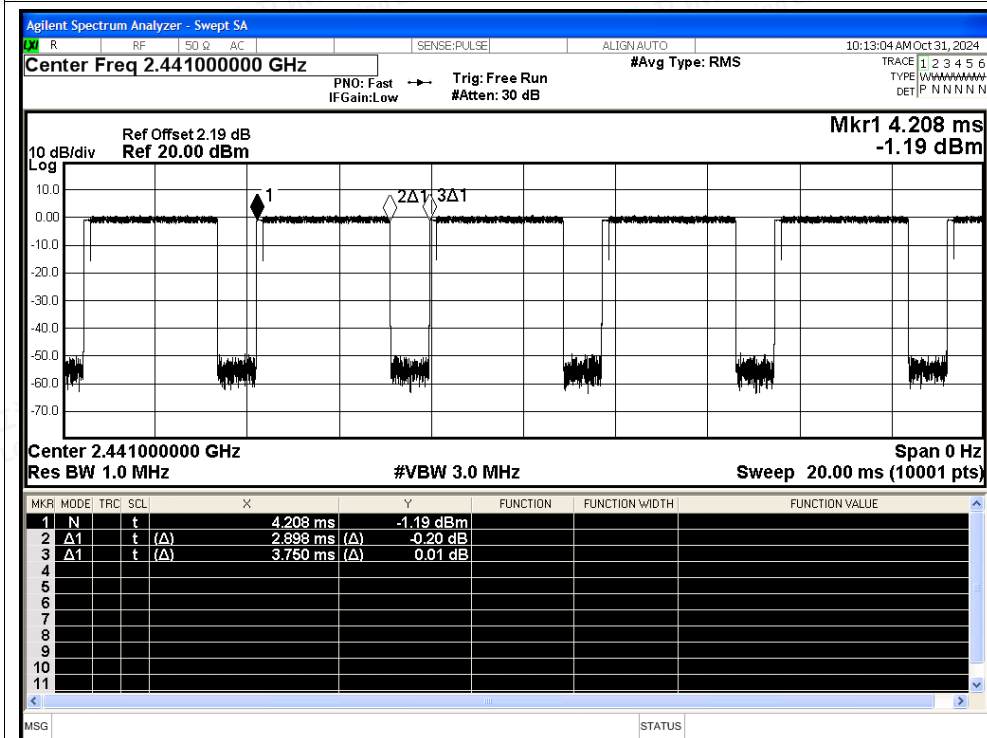


Duty Cycle NVNT 2-DH5 2402MHz Ant0

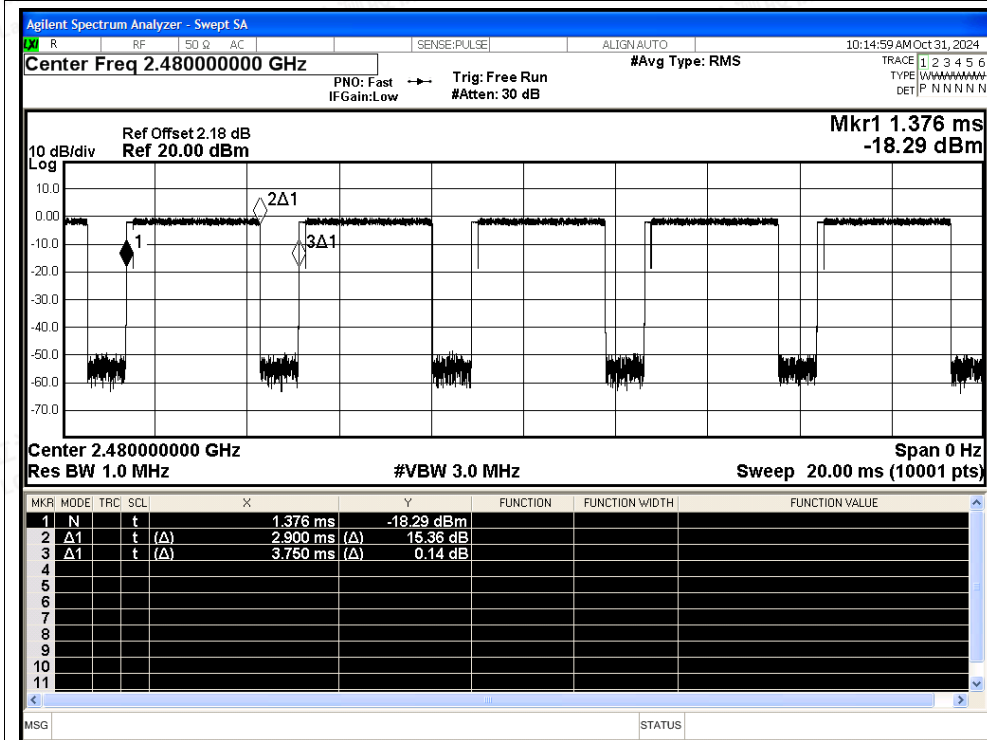




Duty Cycle NVNT 2-DH5 2441MHz Ant0

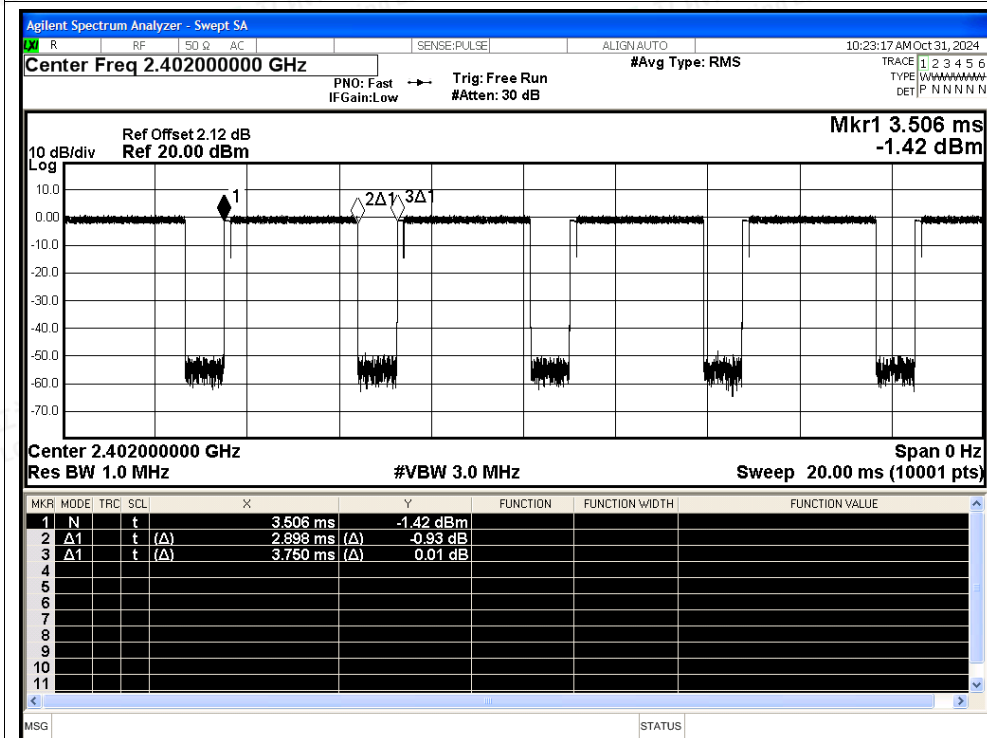


Duty Cycle NVNT 2-DH5 2480MHz Ant0

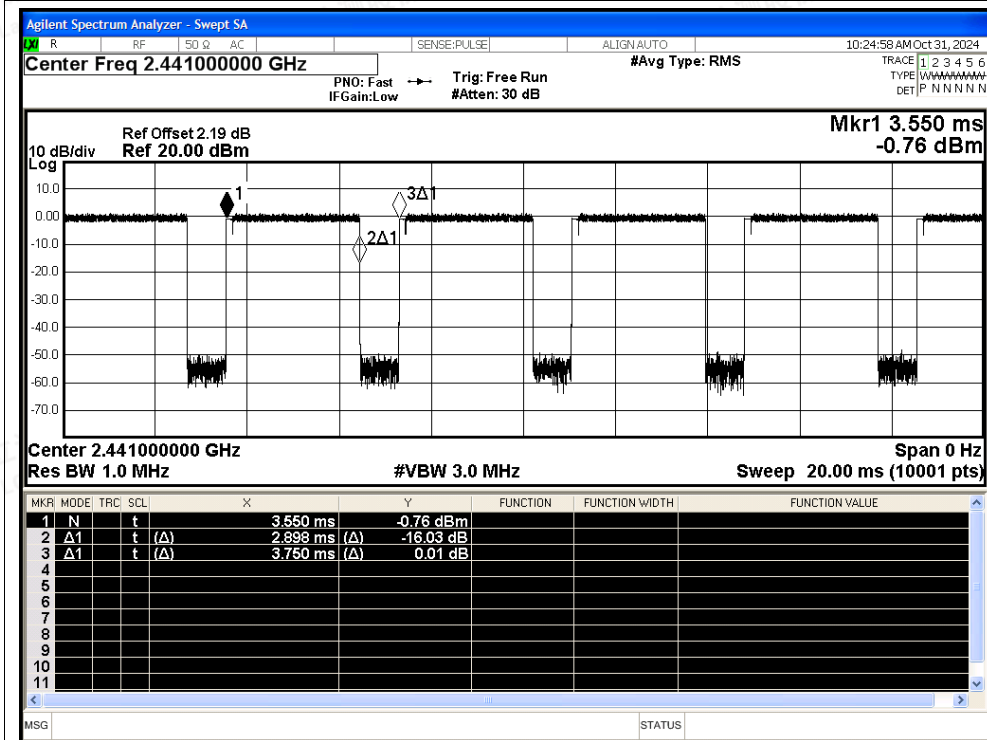


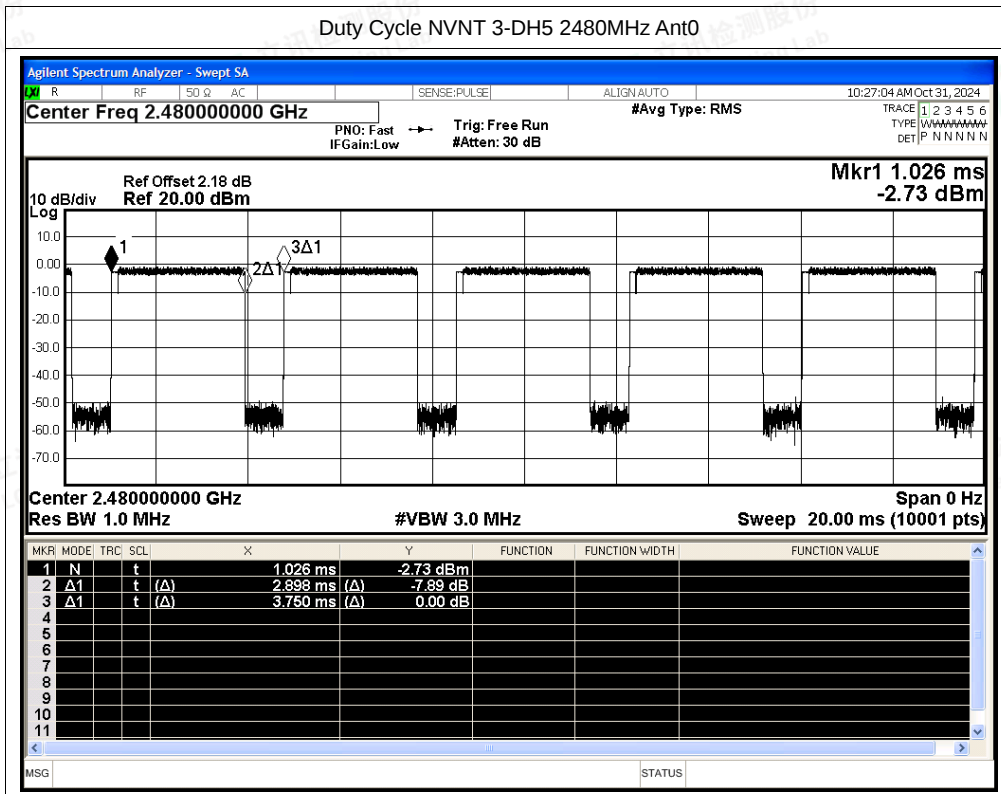


Duty Cycle NVNT 3-DH5 2402MHz Ant0



Duty Cycle NVNT 3-DH5 2441MHz 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	-50.45	2.66	-	47.47	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2310	-58.48	2.66	1.1	40.54	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2382.288	-47.32	2.66	-	50.60	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2382.864	-57.44	2.66	1.1	41.58	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-49.5	2.66	-	48.42	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-58.63	2.66	1.1	40.39	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-48.64	2.66	-	49.28	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-57.27	2.66	1.1	41.75	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2492.296	-47.06	2.66	-	50.86	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2489.56	-57.09	2.66	1.1	41.93	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-50.96	2.66	-	46.96	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-57.74	2.66	1.1	41.28	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-49.52	2.66	-	48.40	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-58.71	2.66	1.12	40.33	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2366.928	-47.48	2.66	-	50.44	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2389.968	-57.49	2.66	1.12	41.55	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-50.23	2.66	-	47.69	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-57.49	2.66	1.12	41.55	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-48.99	2.66	-	48.93	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-57.05	2.66	1.12	41.99	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2485.288	-46.53	2.66	-	51.39	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2486.2	-57.04	2.66	1.12	42.00	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-49.54	2.66	-	48.38	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-58.09	2.66	1.12	40.95	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-50.13	2.66	-	47.79	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-58.97	2.66	1.12	40.07	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2382.192	-46.86	2.66	-	51.06	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2379.6	-57.49	2.66	1.12	41.55	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-49.4	2.66	-	48.52	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-58.59	2.66	1.12	40.45	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-48.92	2.66	-	49.00	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-57.06	2.66	1.12	41.98	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2493.304	-46.63	2.66	-	51.29	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.56	-57.01	2.66	1.12	42.03	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-49.88	2.66	-	48.04	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-57.87	2.66	1.12	41.17	Average	54	Pass

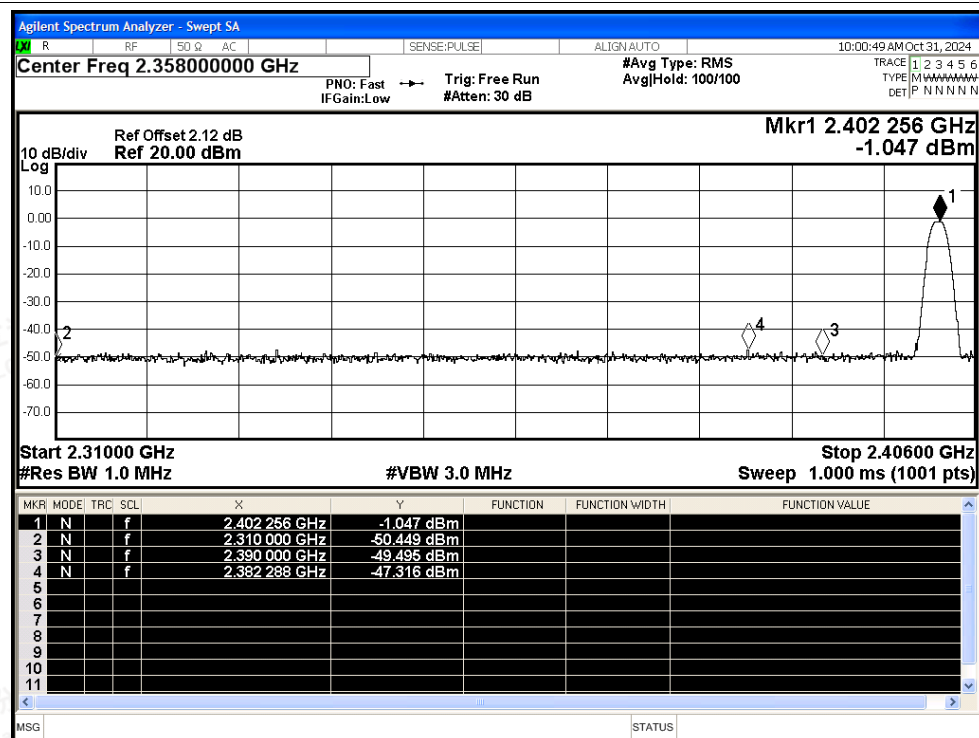


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,
Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
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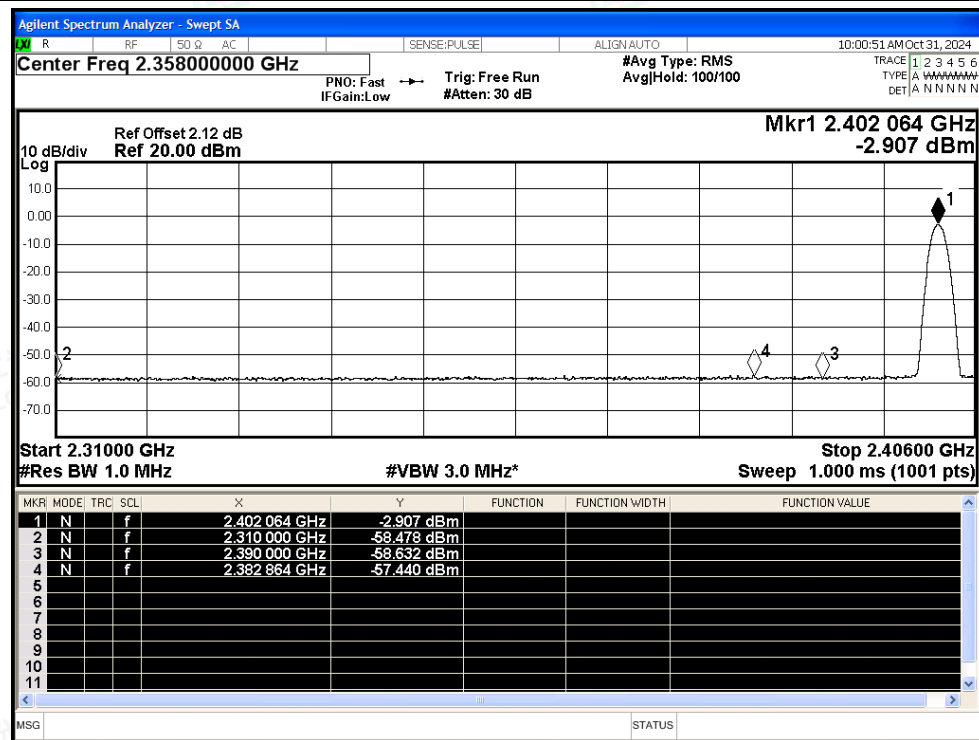


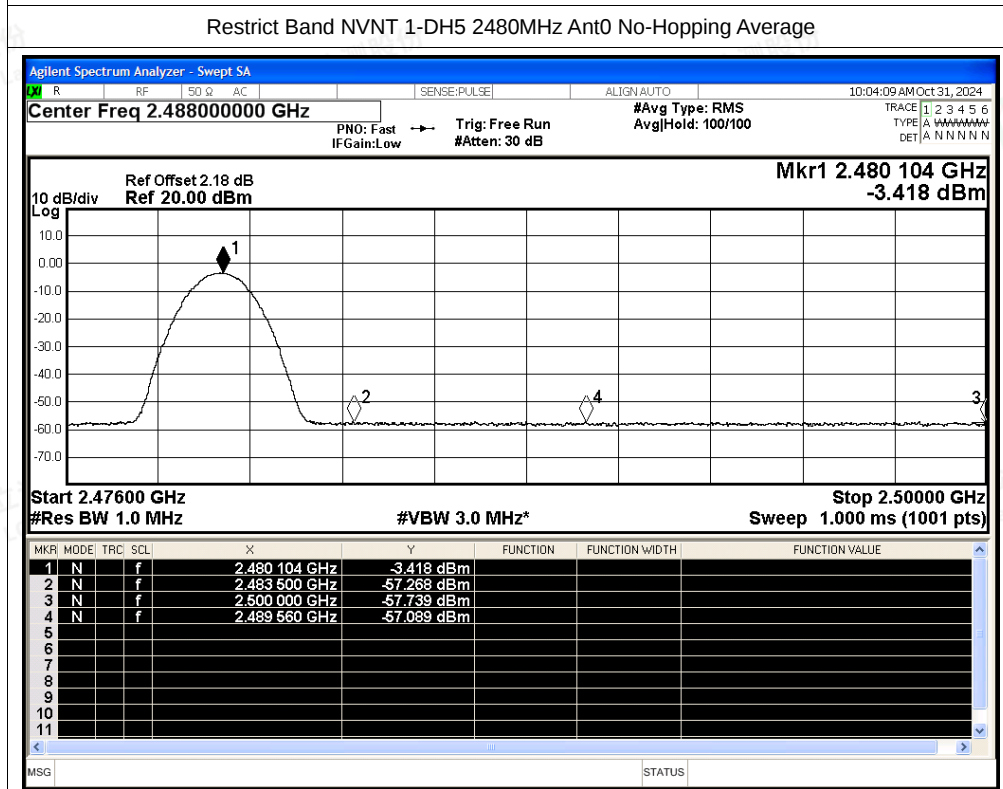
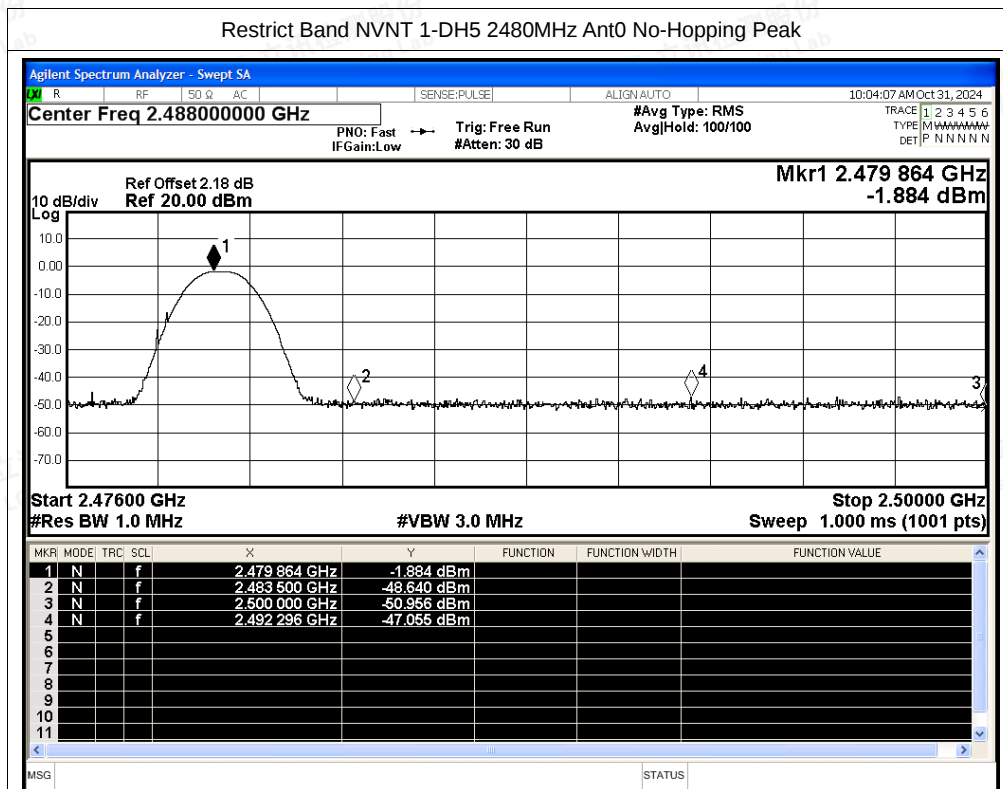
Test Graphs

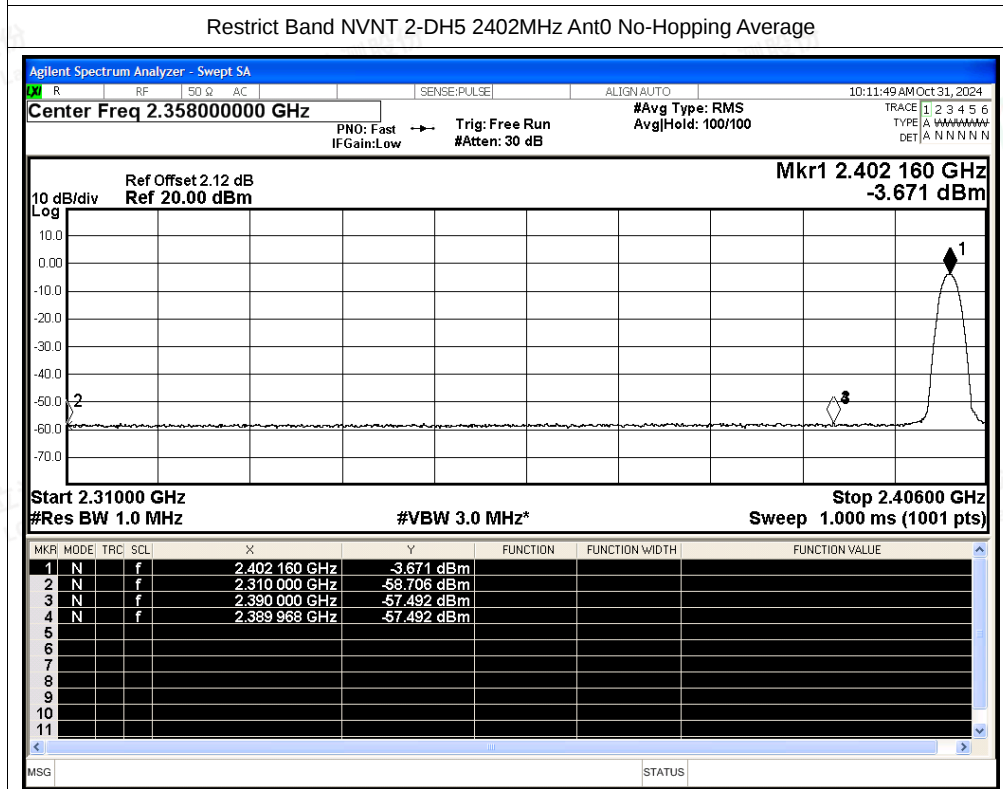
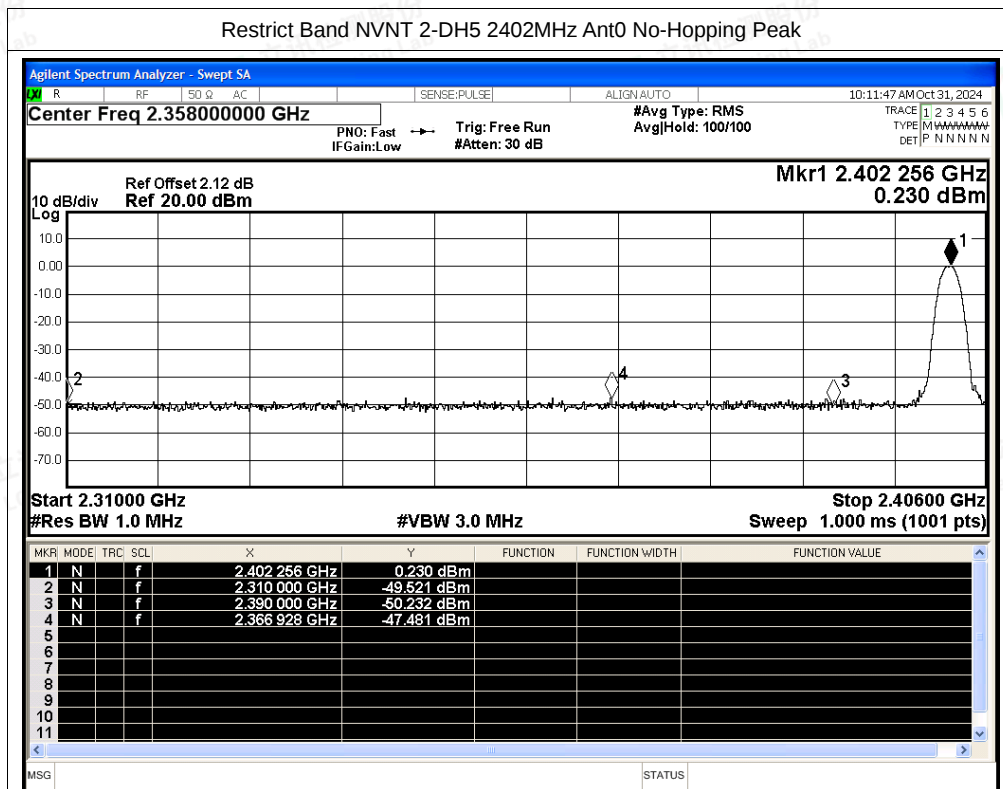
Restrict Band NVNT 1-DH5 2402MHz Ant0 No-Hopping Peak



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

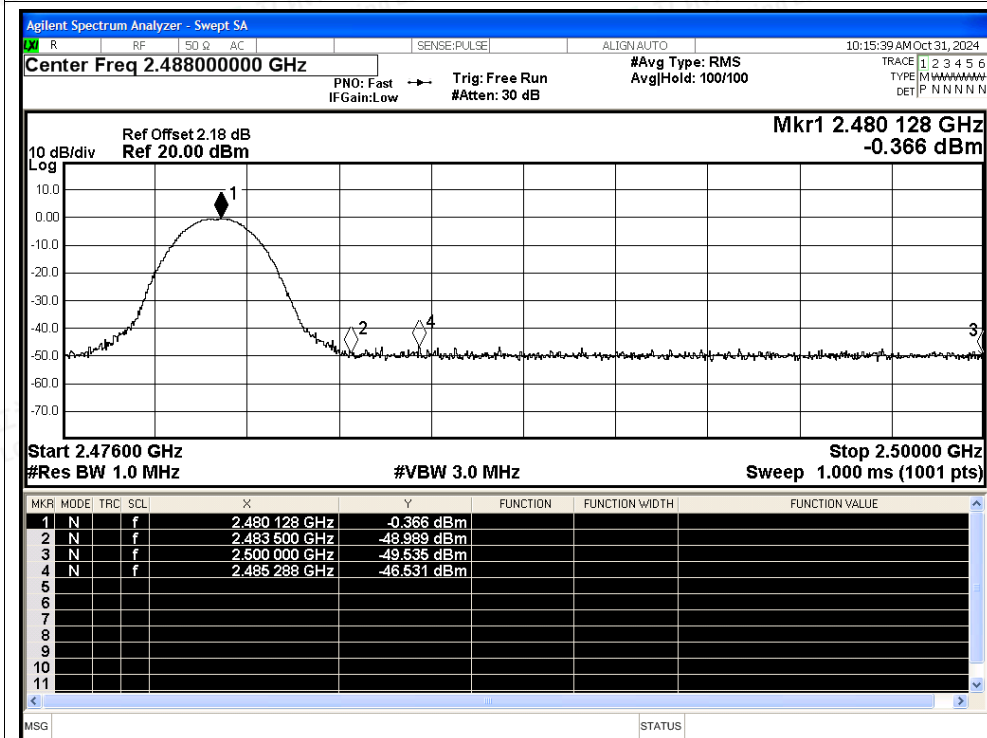




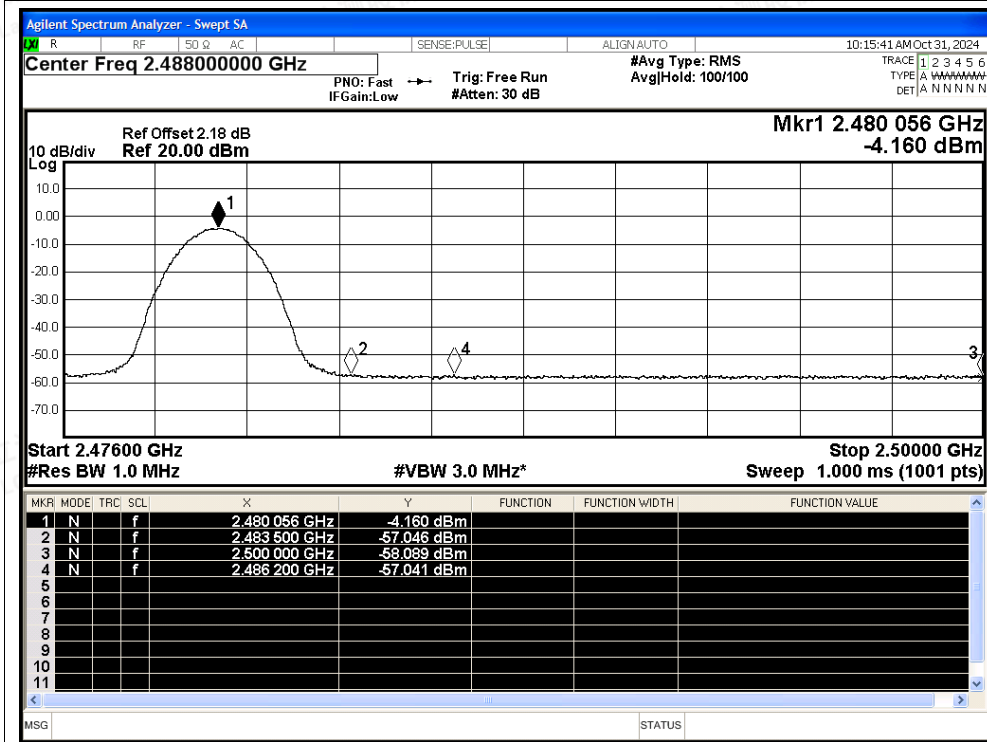


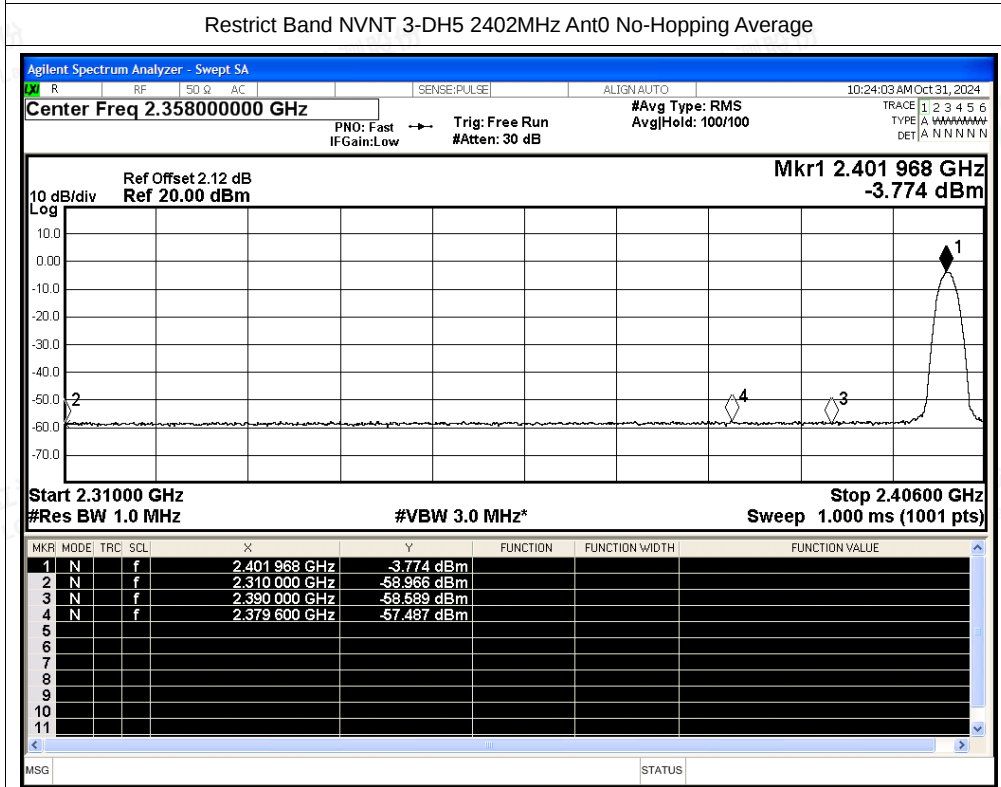
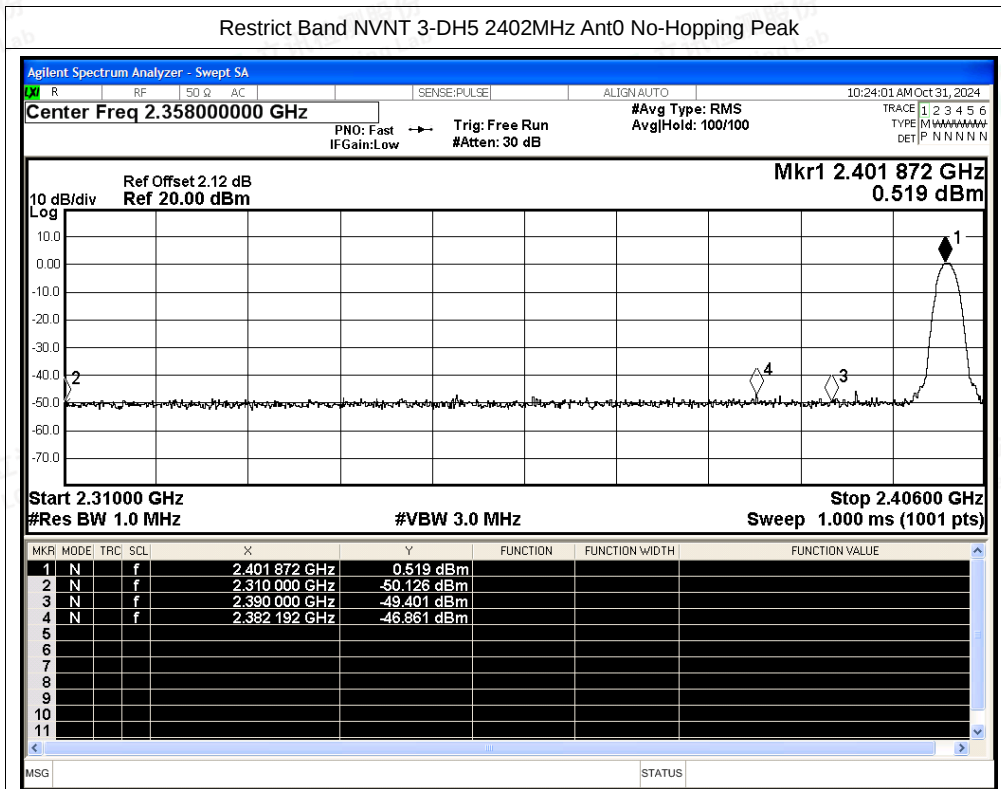


Restrict Band NVNT 2-DH5 2480MHz Ant0 No-Hopping Peak



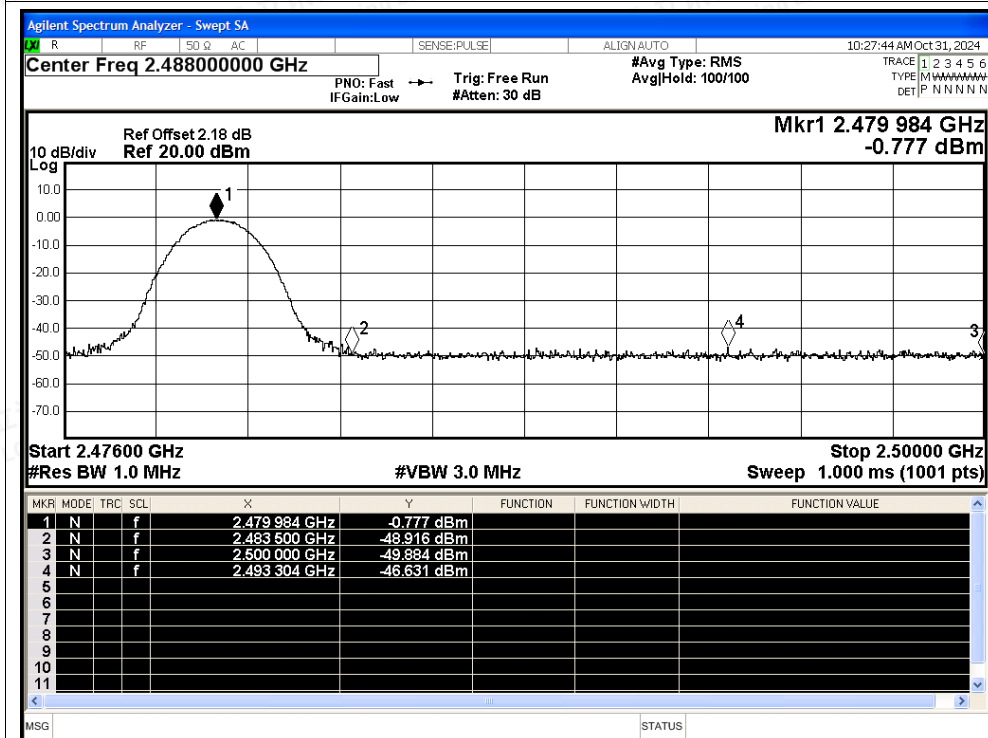
Restrict Band NVNT 2-DH5 2480MHz Ant0 No-Hopping Average







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



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

