



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: CD Player

Test Model: R300

Environmental Conditions

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





A.1 -20dB Bandwidth

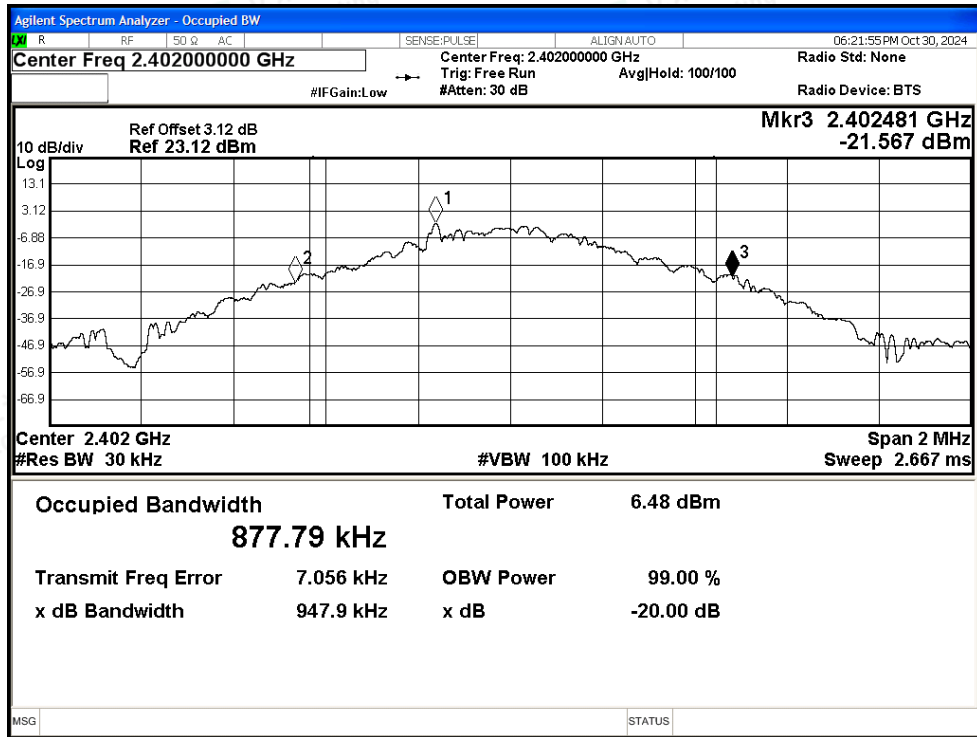
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.948	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.947	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.937	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.288	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.28	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.284	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.309	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.303	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.3	N/A	Pass



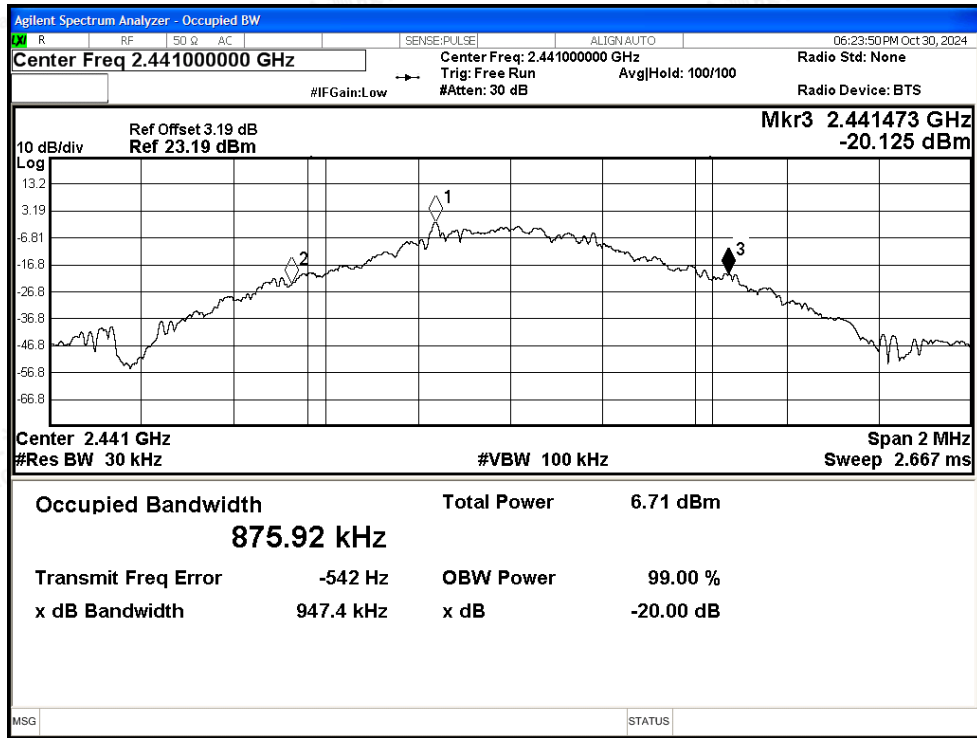


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

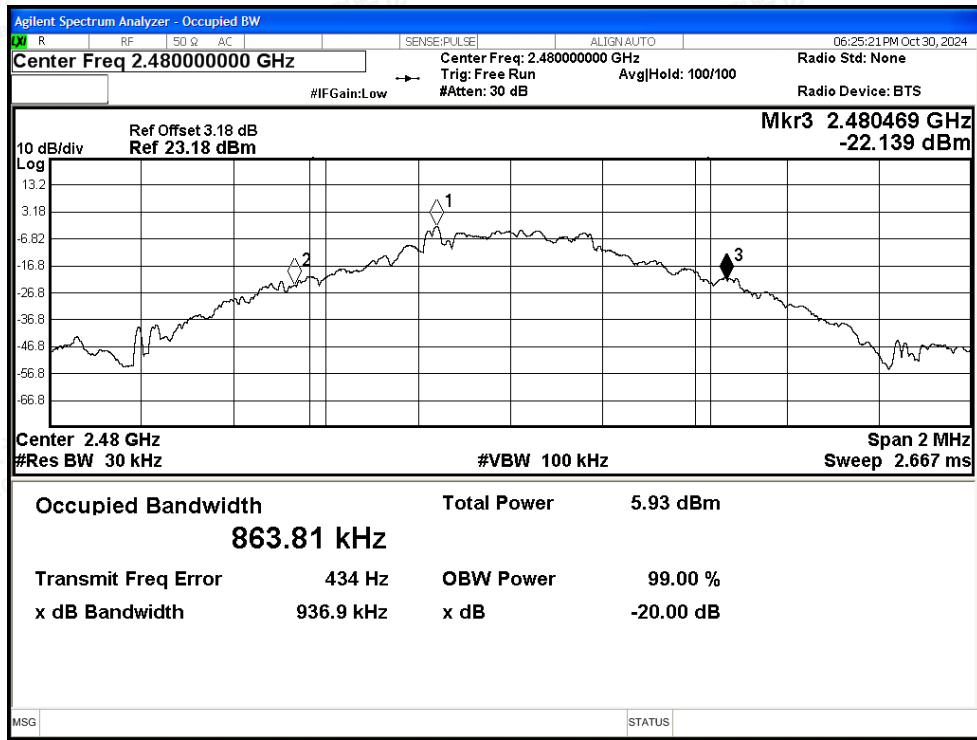


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

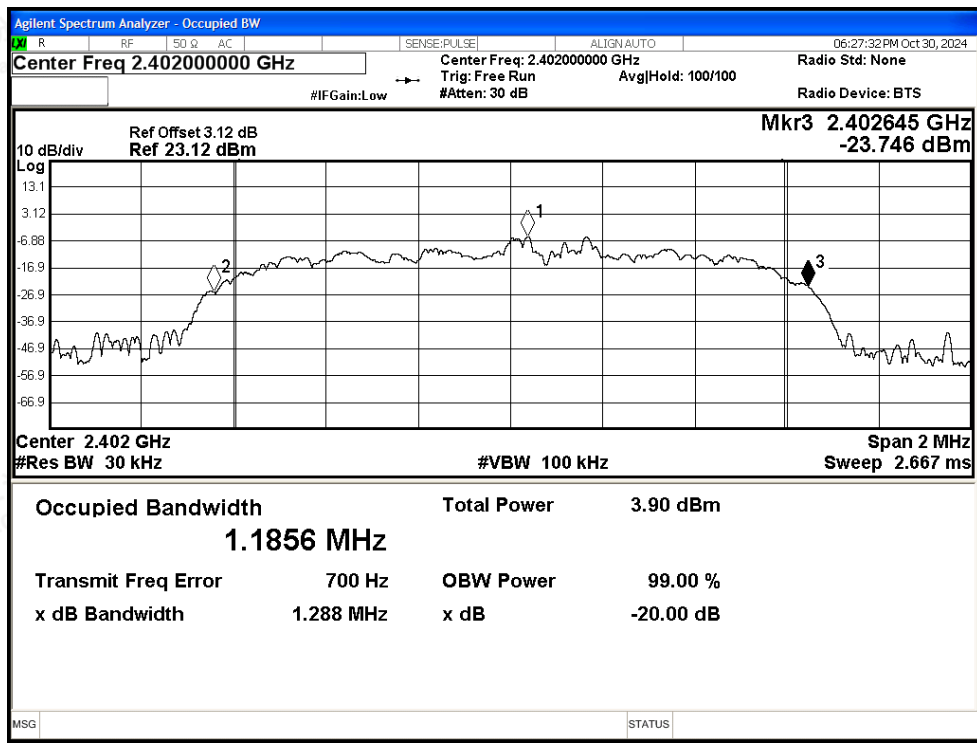




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

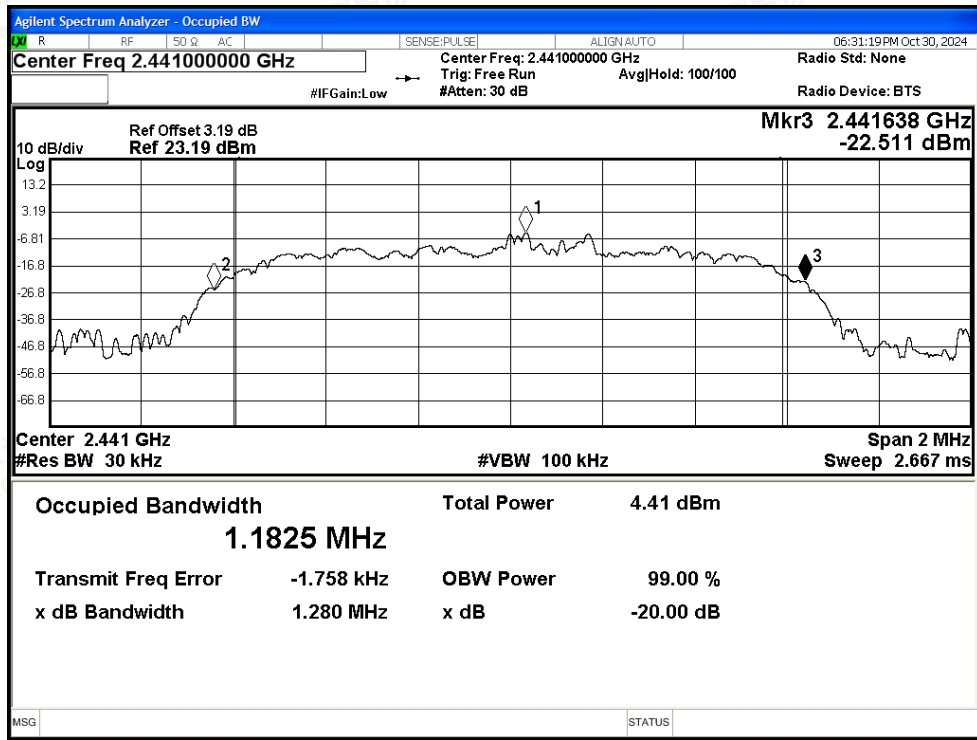


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

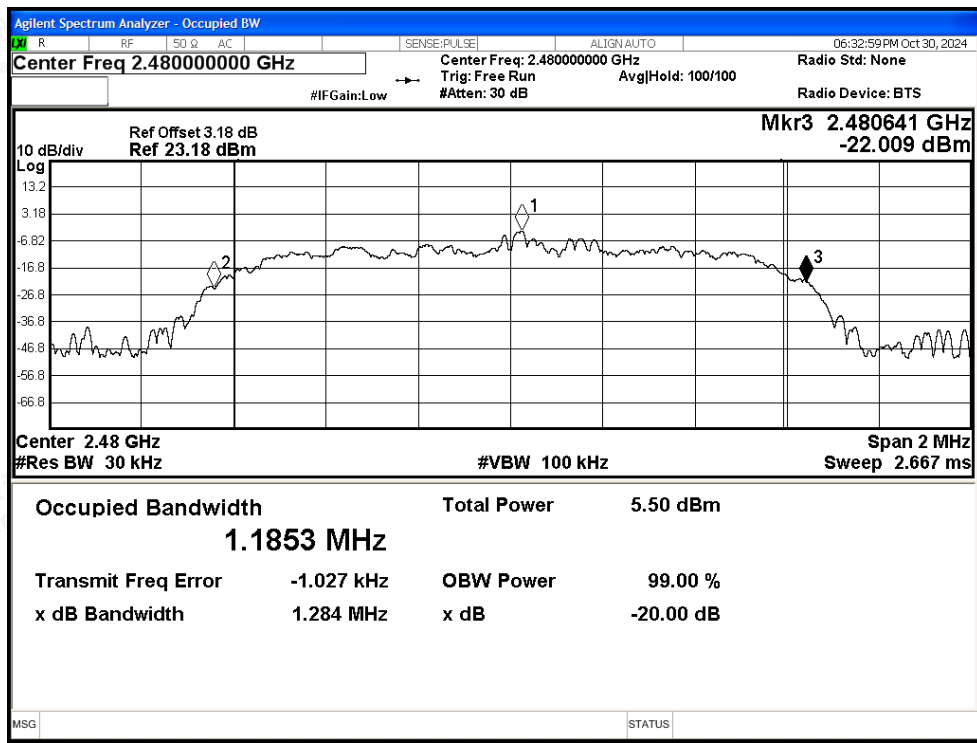




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

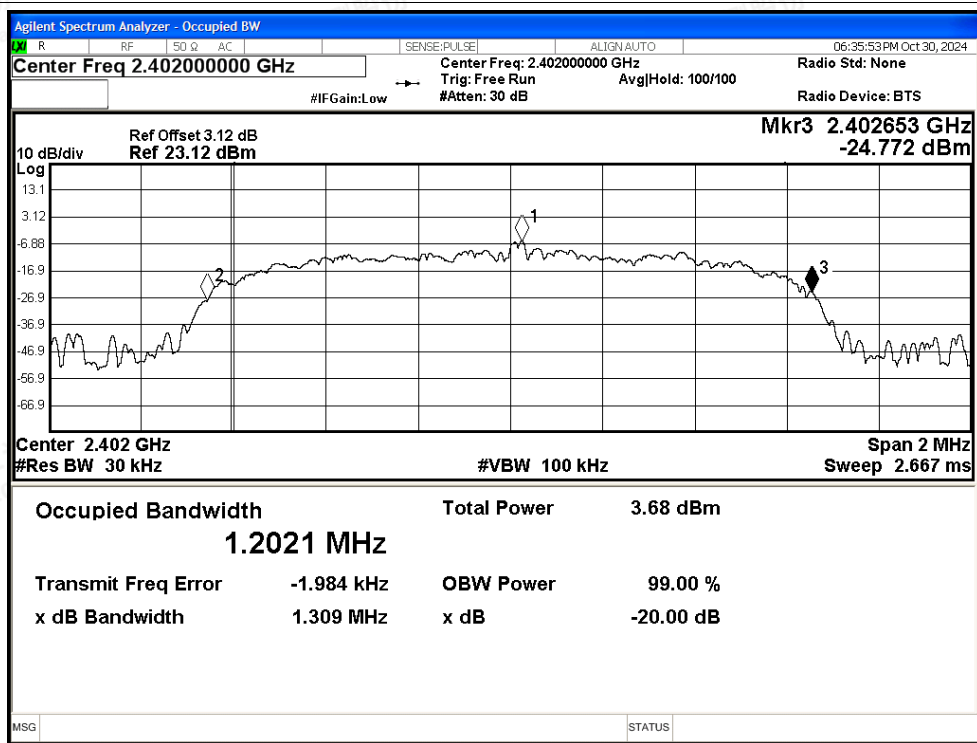


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

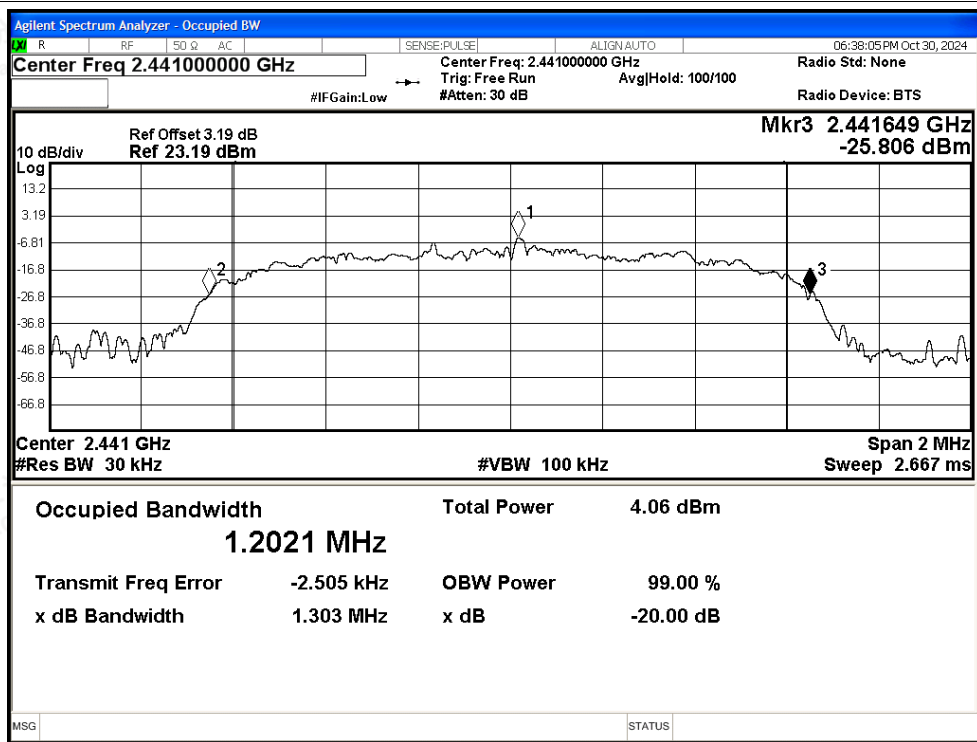


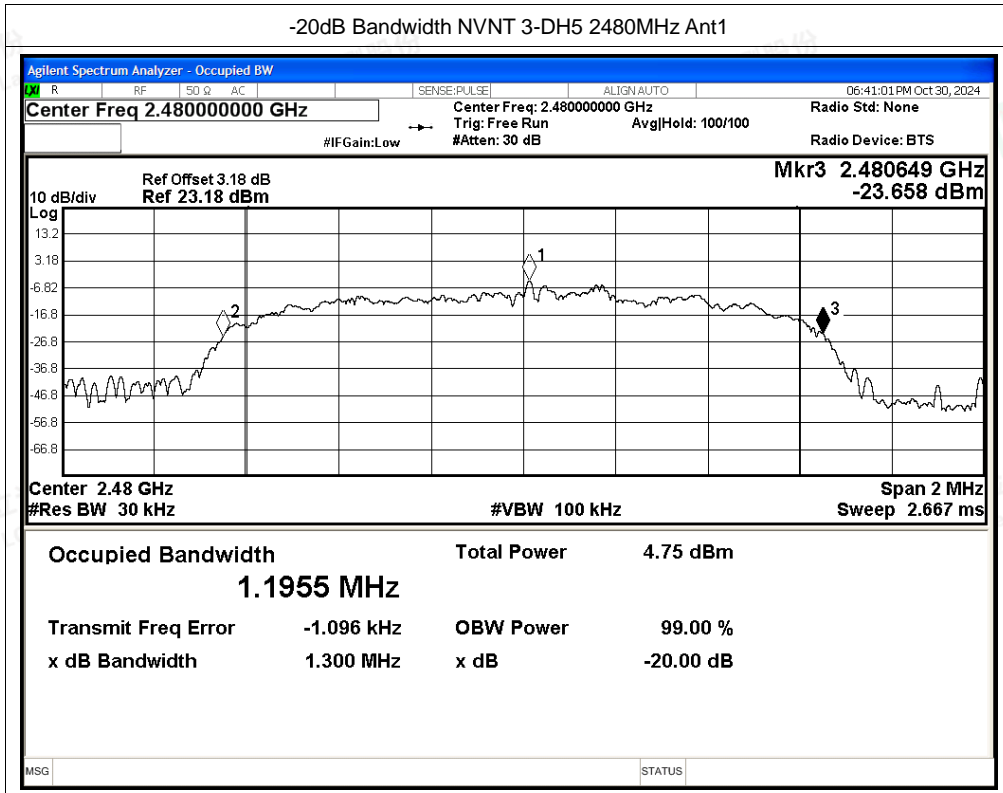


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Peak Conducted Output Power

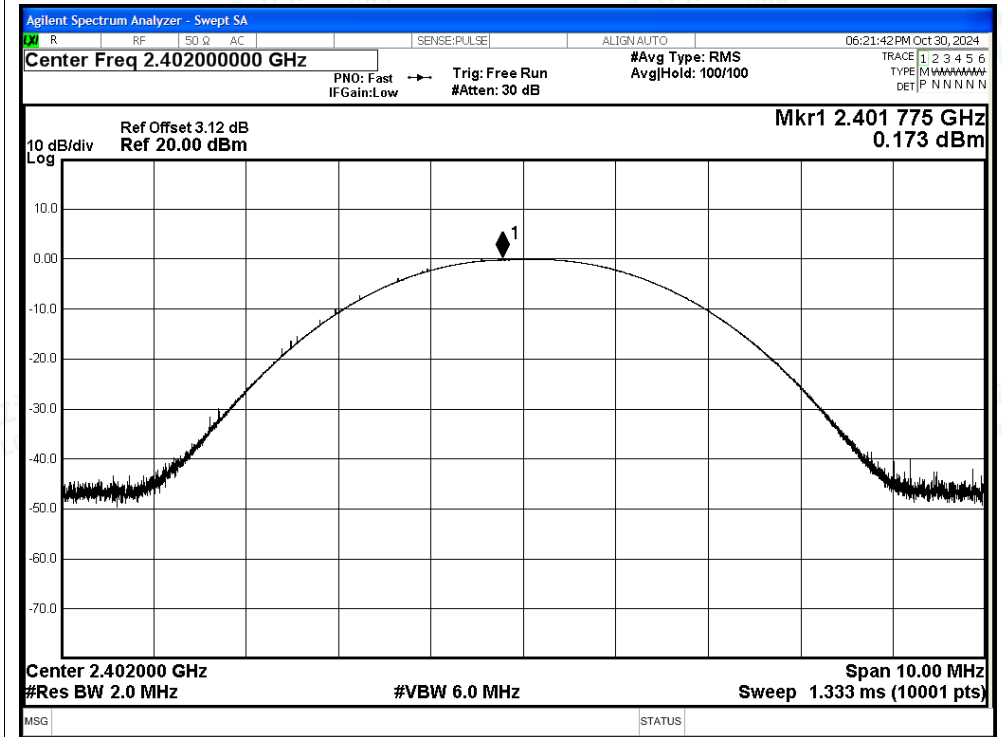
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.17	21	Pass
NVNT	1-DH5	2441	Ant1	0.47	21	Pass
NVNT	1-DH5	2480	Ant1	-0.56	21	Pass
NVNT	2-DH5	2402	Ant1	-0.55	21	Pass
NVNT	2-DH5	2441	Ant1	-0.13	21	Pass
NVNT	2-DH5	2480	Ant1	1.21	21	Pass
NVNT	3-DH5	2402	Ant1	-0.08	21	Pass
NVNT	3-DH5	2441	Ant1	0.22	21	Pass
NVNT	3-DH5	2480	Ant1	0.68	21	Pass



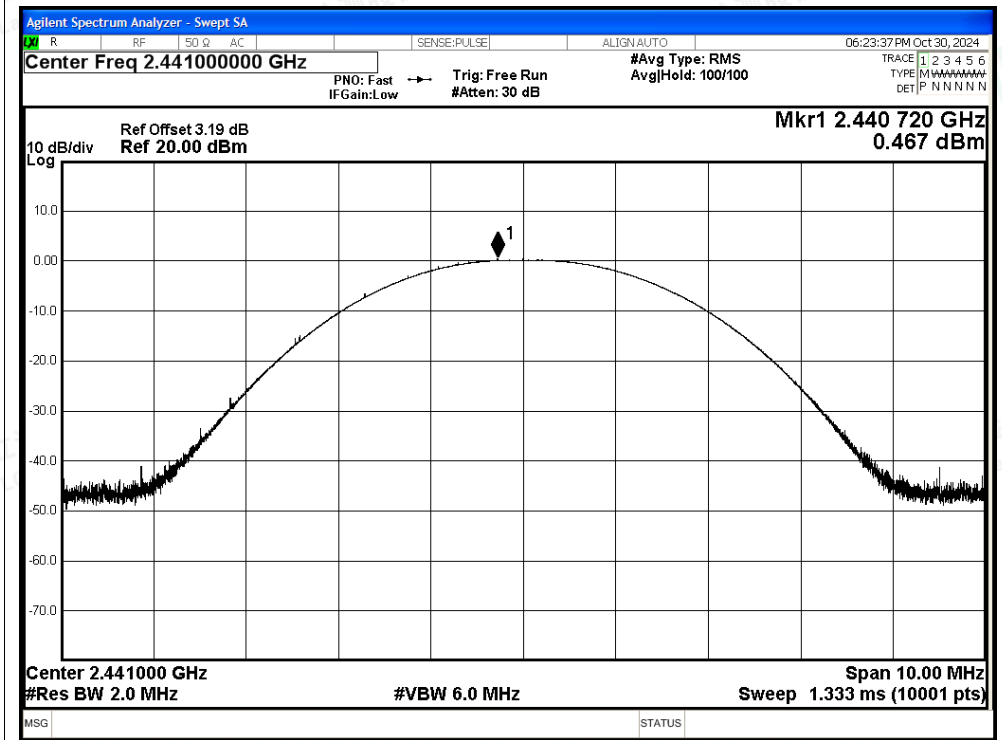


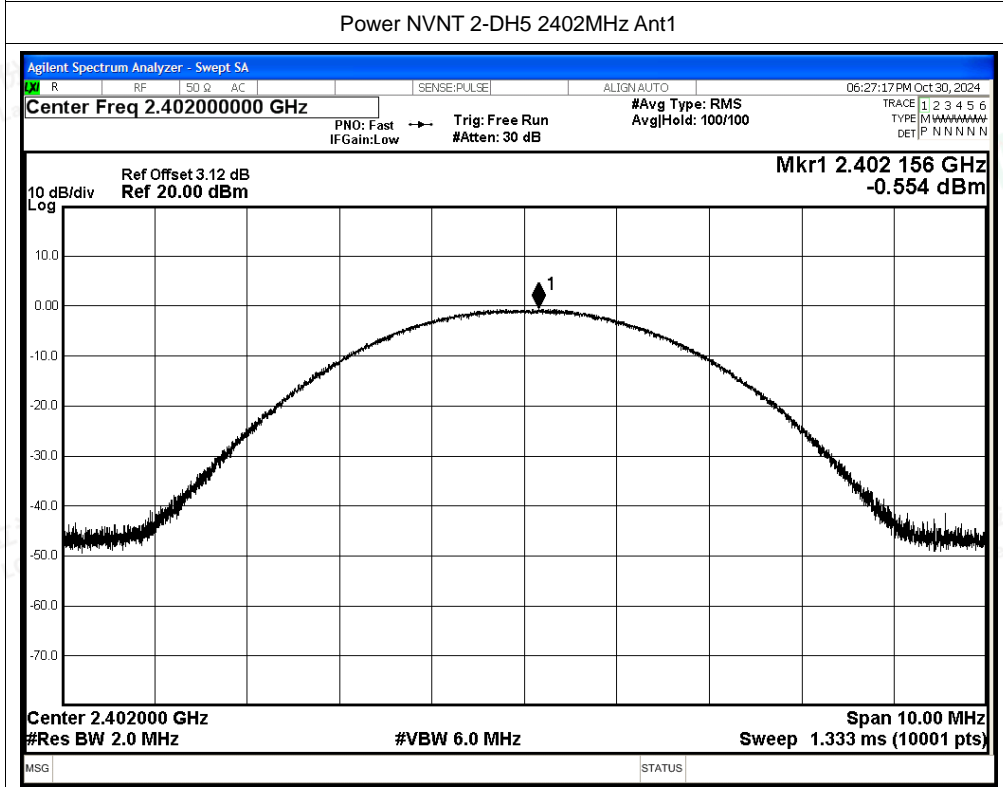
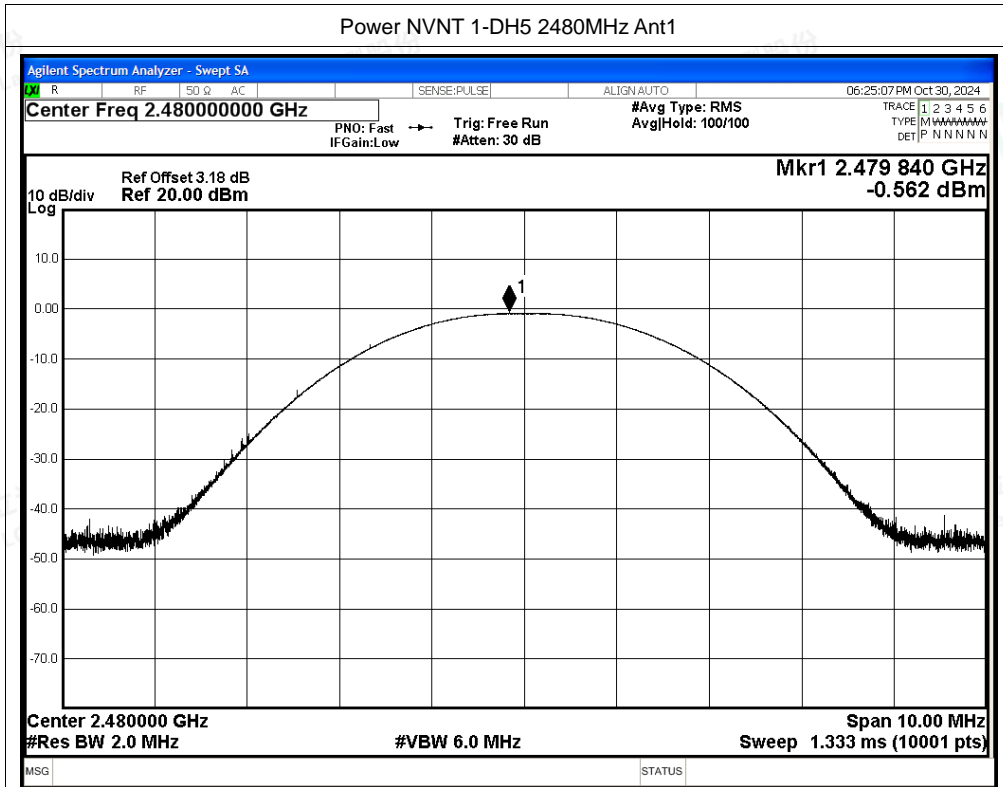
Test Graphs

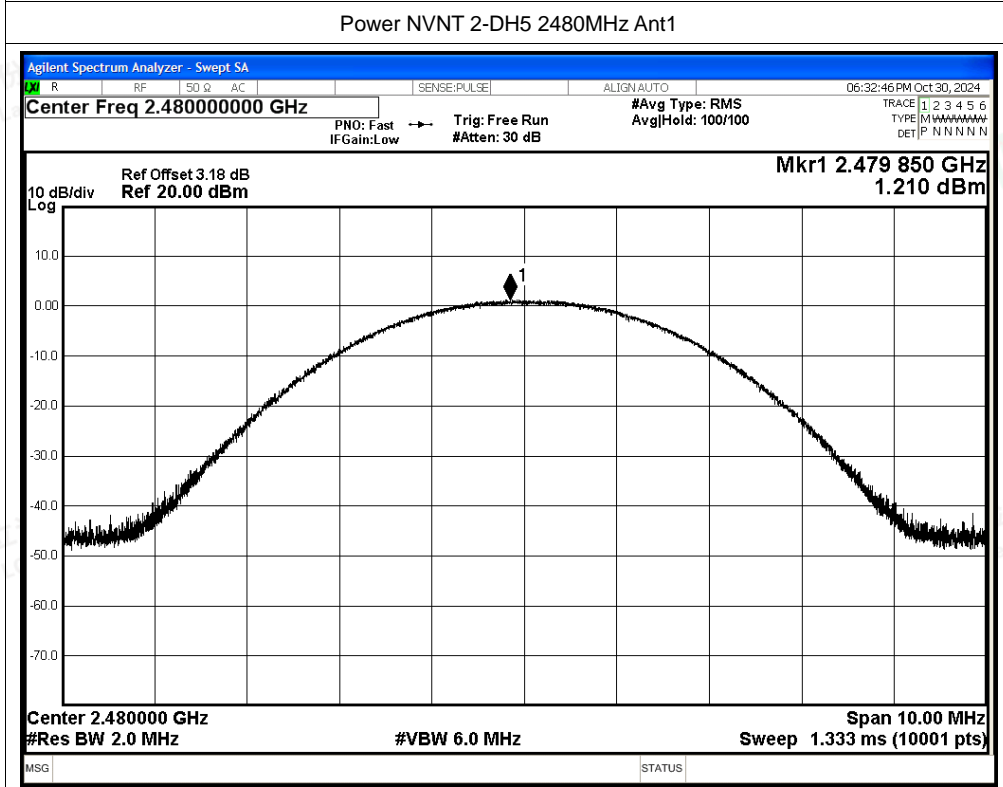
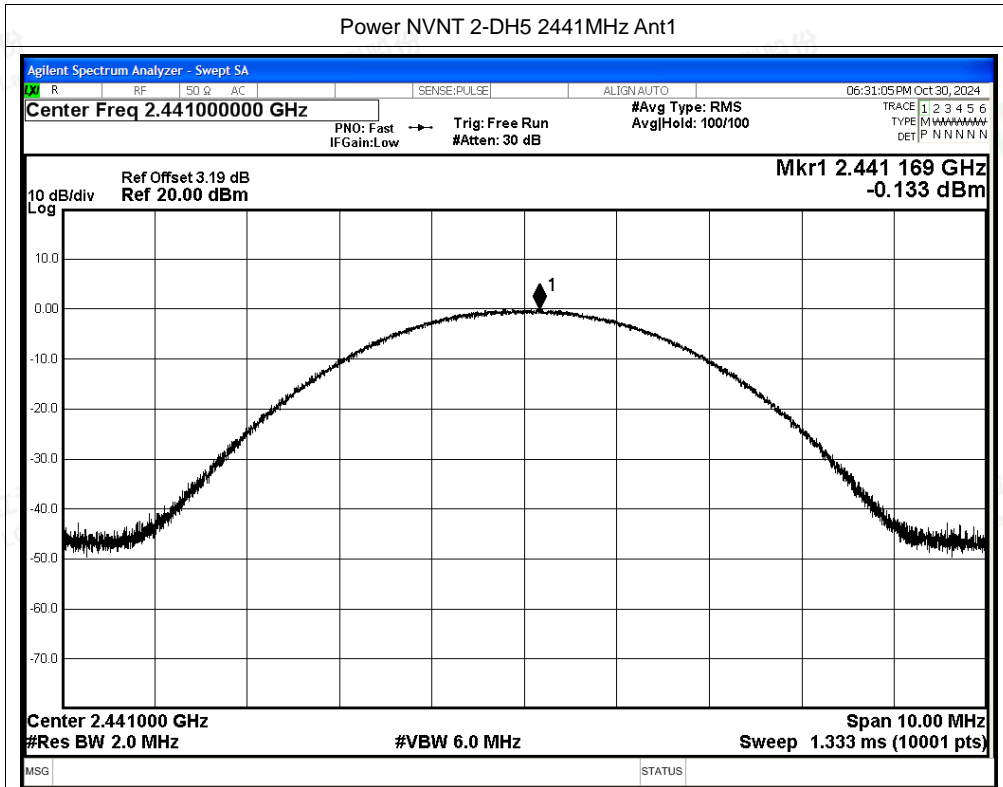
Power NVNT 1-DH5 2402MHz Ant1

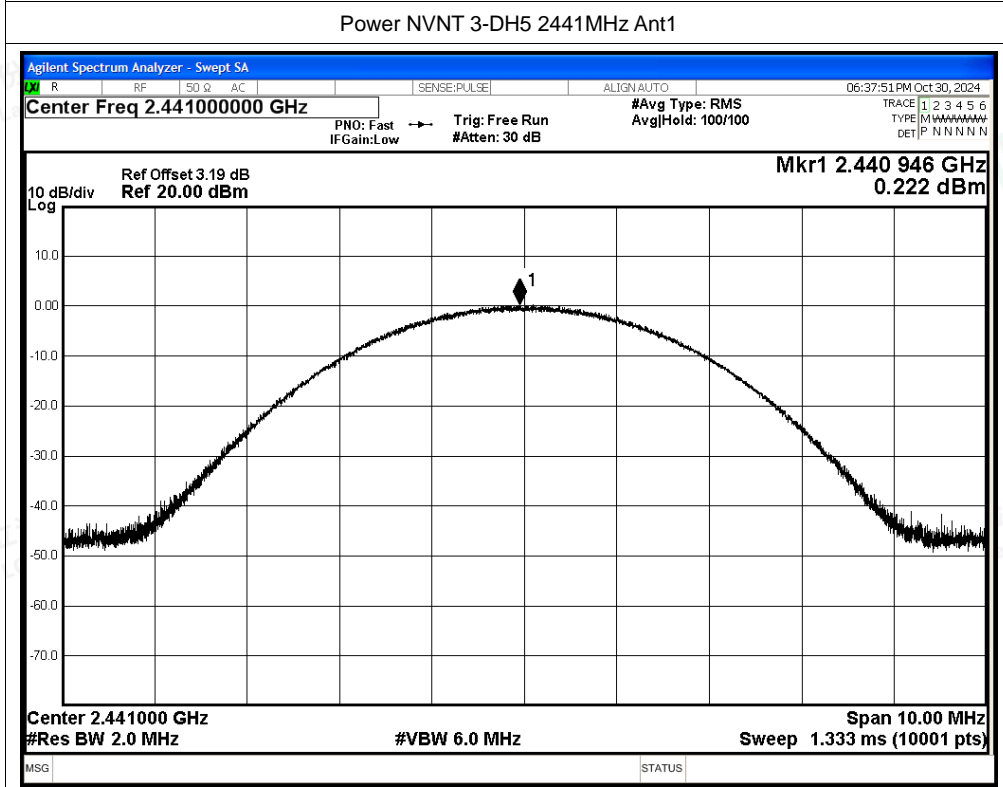
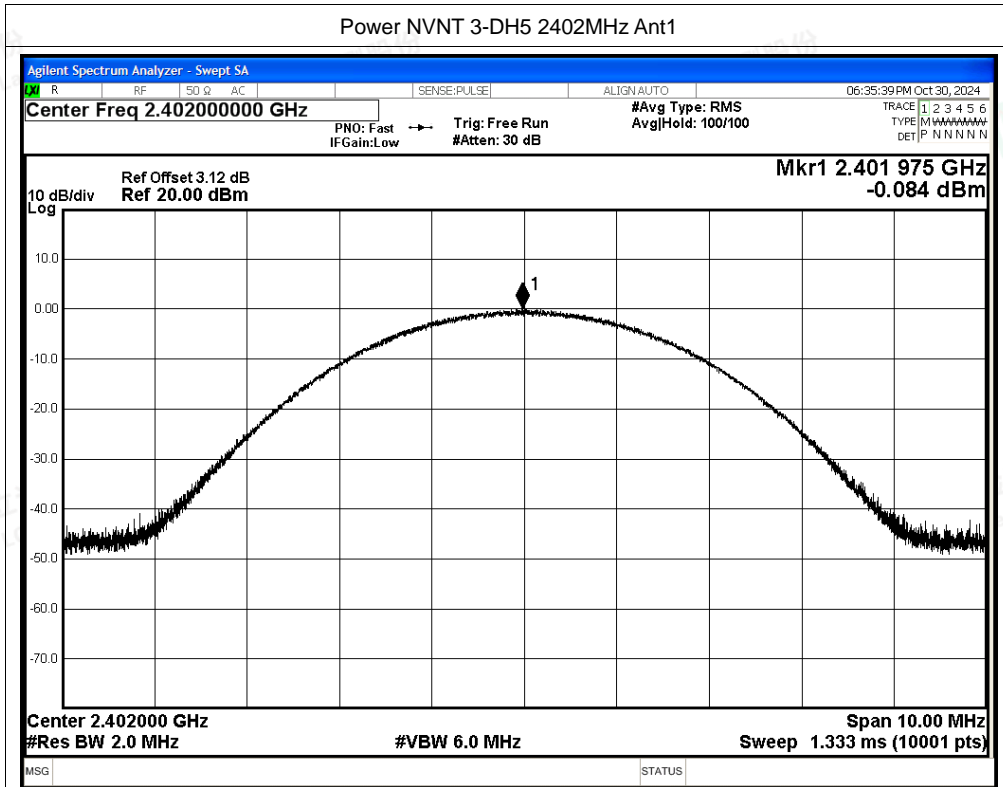


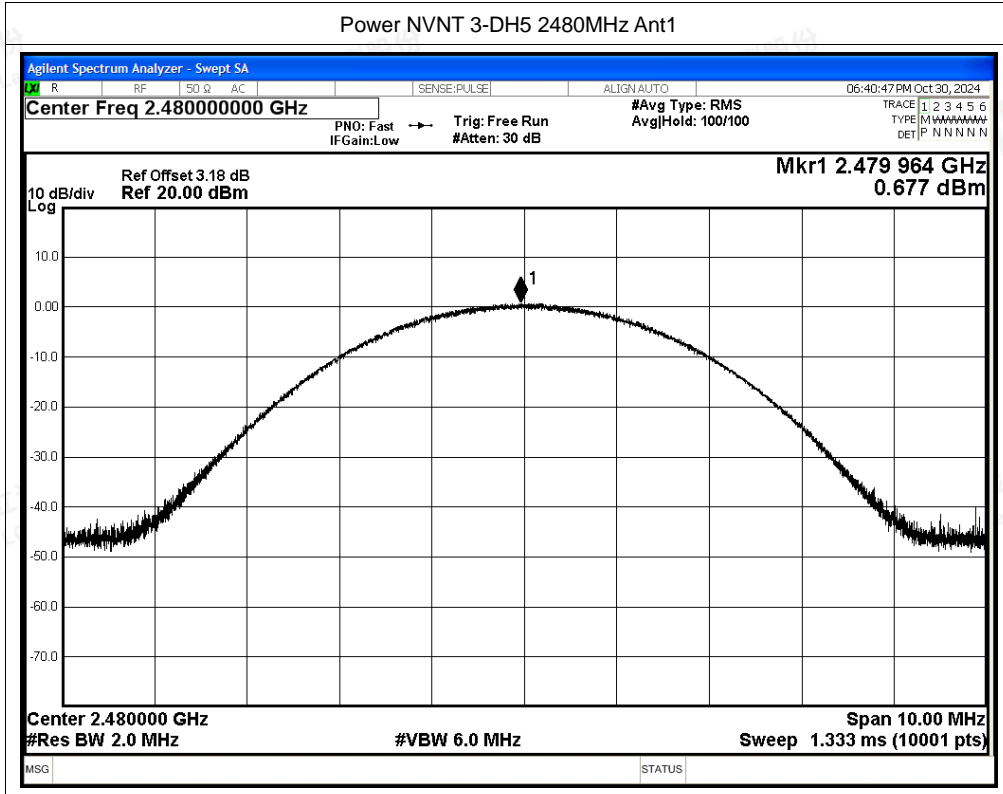
Power NVNT 1-DH5 2441MHz Ant1













A.3 Carrier Frequencies Separation

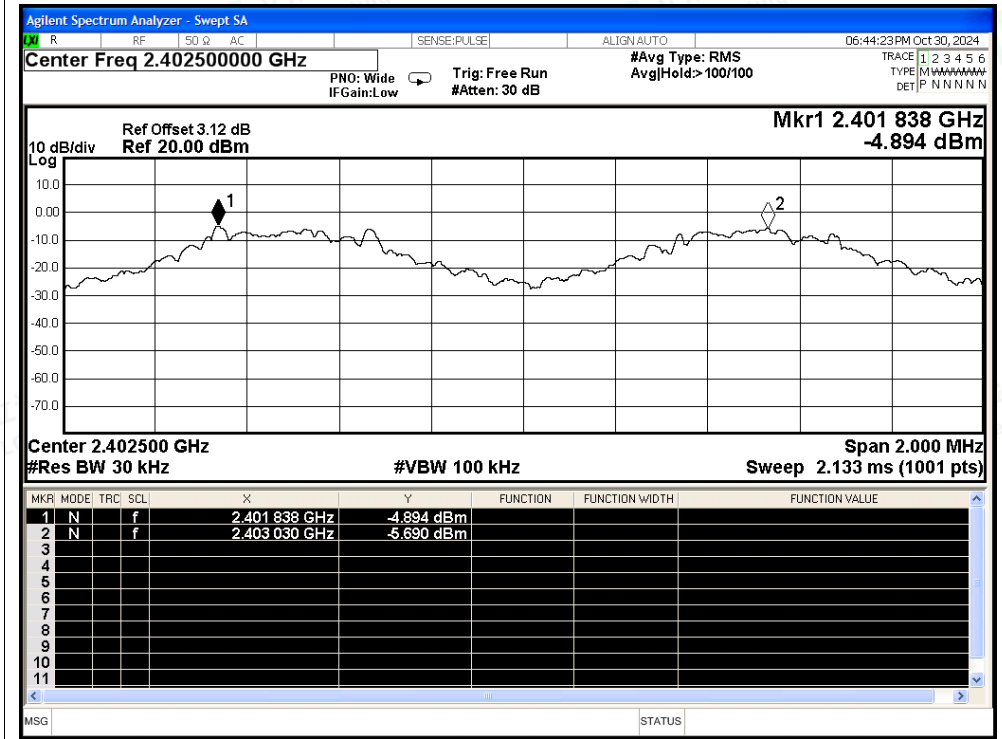
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.838	2403.03	1.192	0.632	Pass
NVNT	2-DH5	Ant1	2402.024	2403.036	1.012	0.859	Pass
NVNT	3-DH5	Ant1	2402.014	2403.034	1.02	0.873	Pass



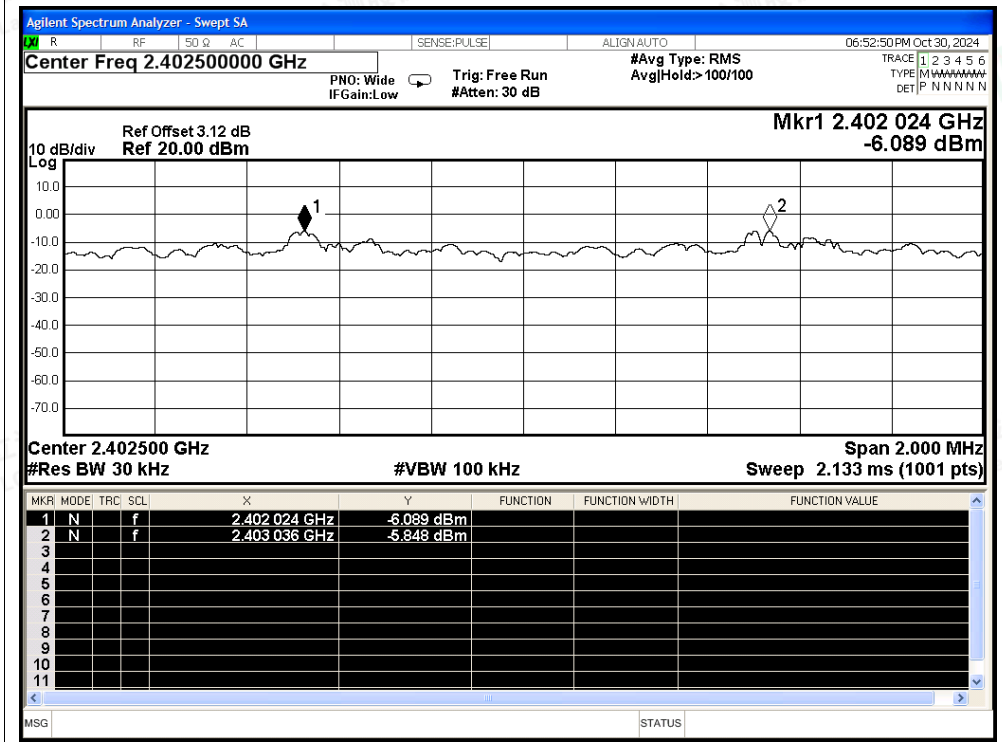


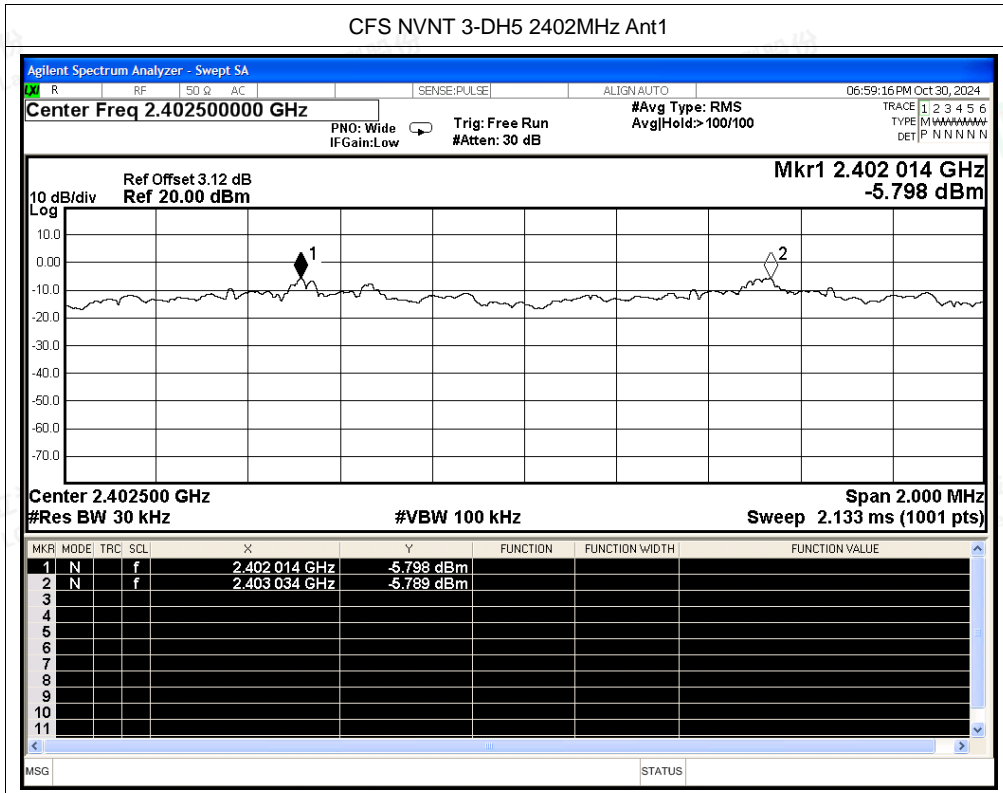
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

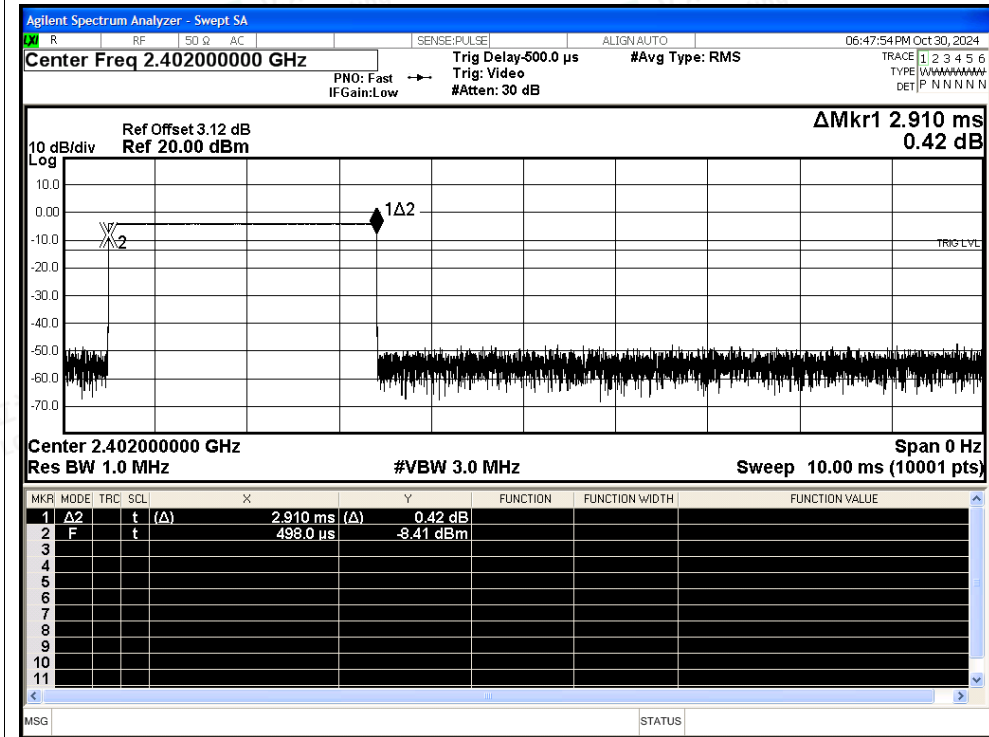
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.91	299.73	103	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.899	333.385	115	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	301.288	104	31600	400	Pass



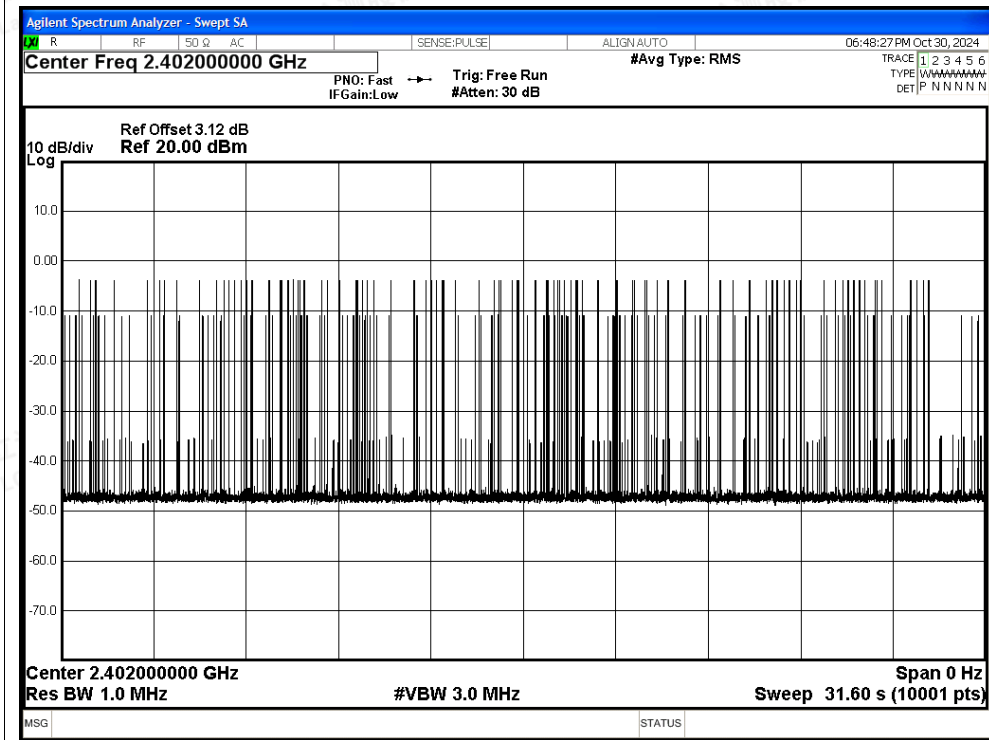


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

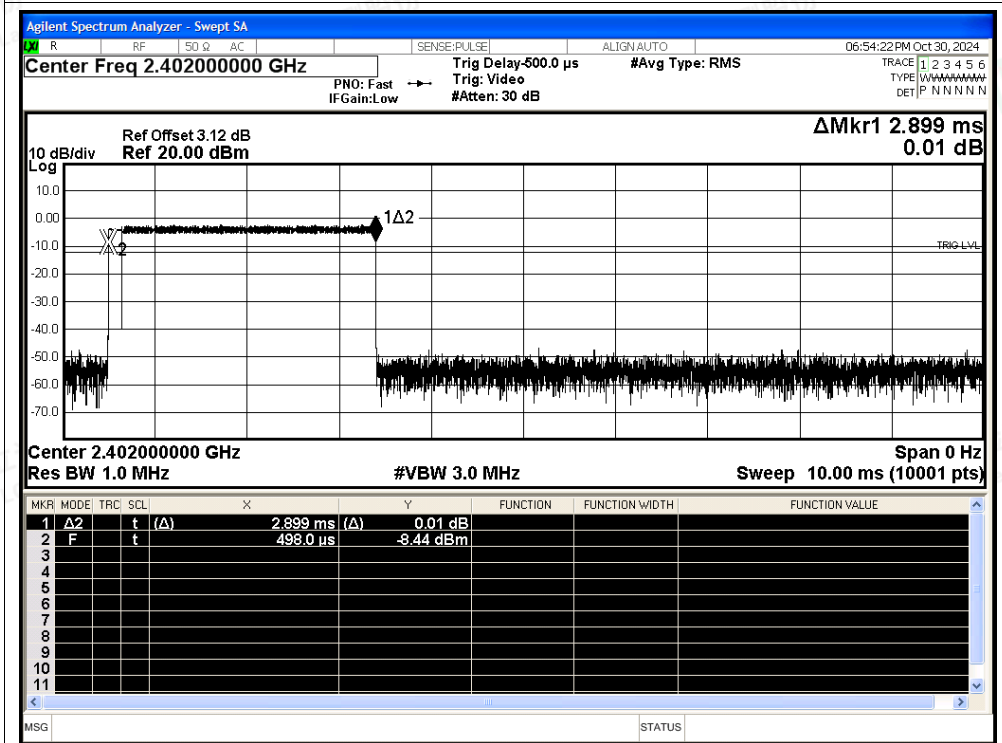


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

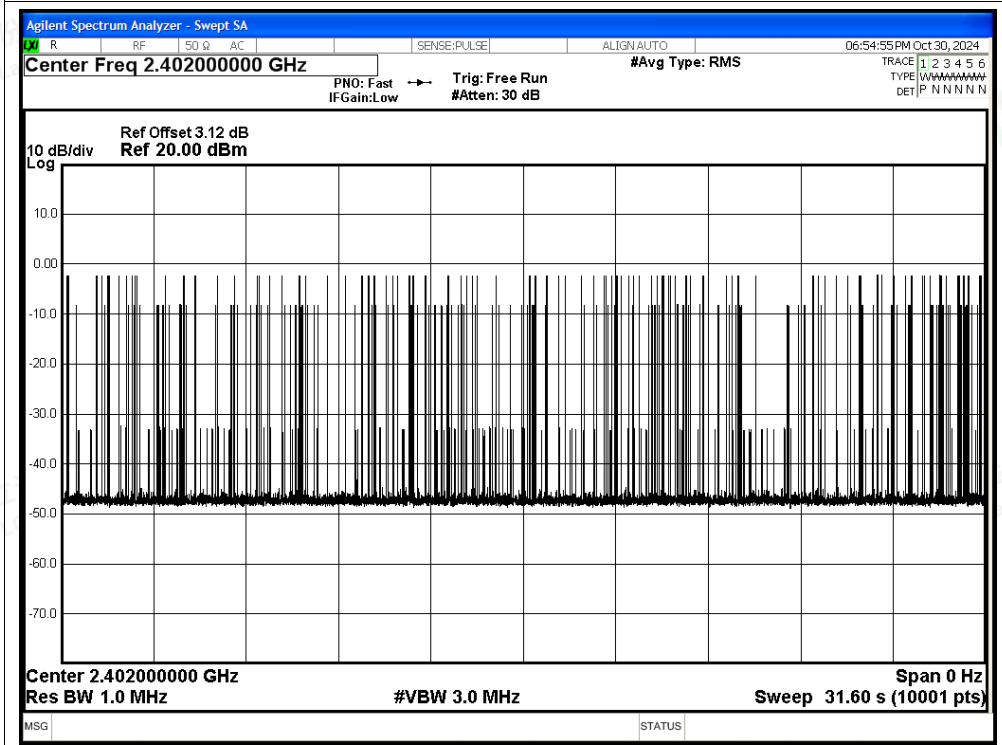




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

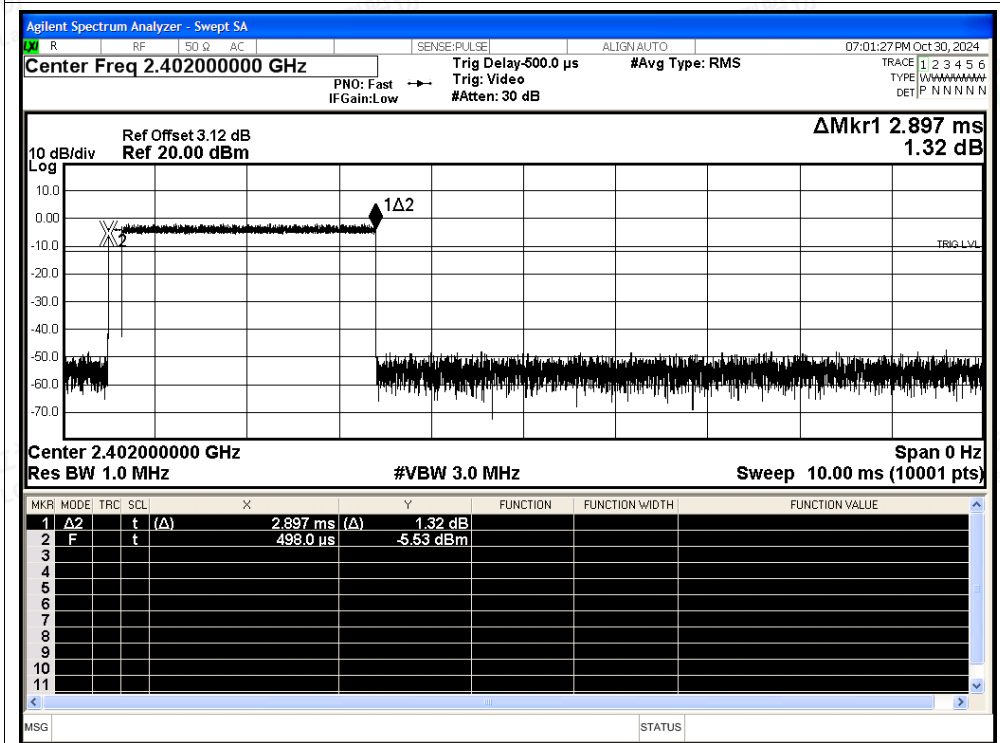


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

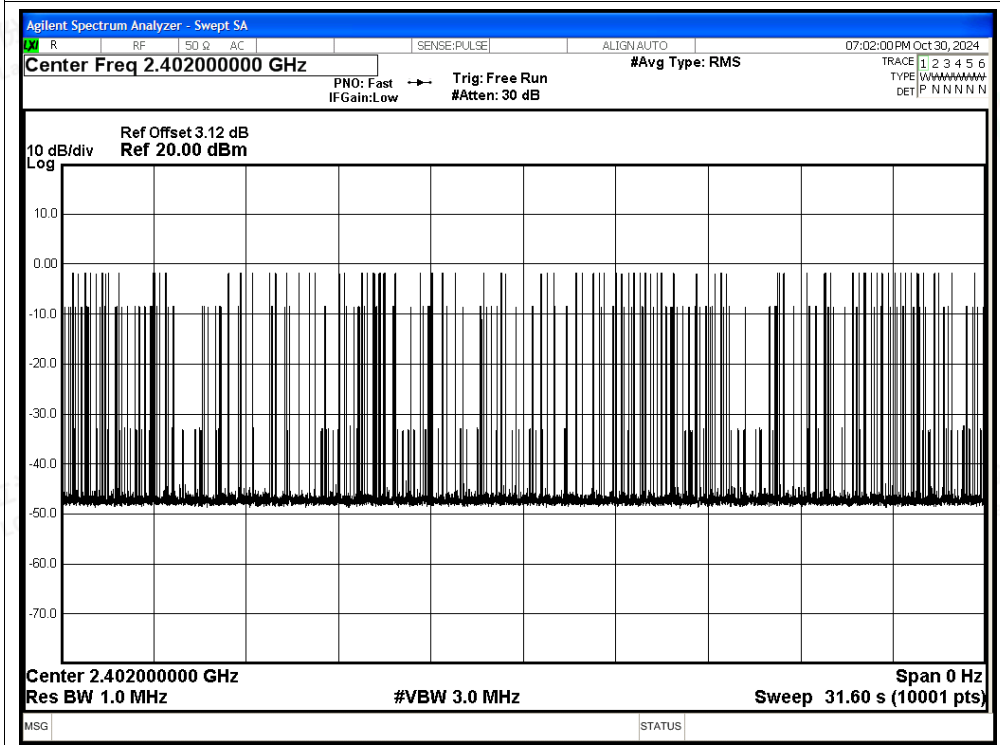




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

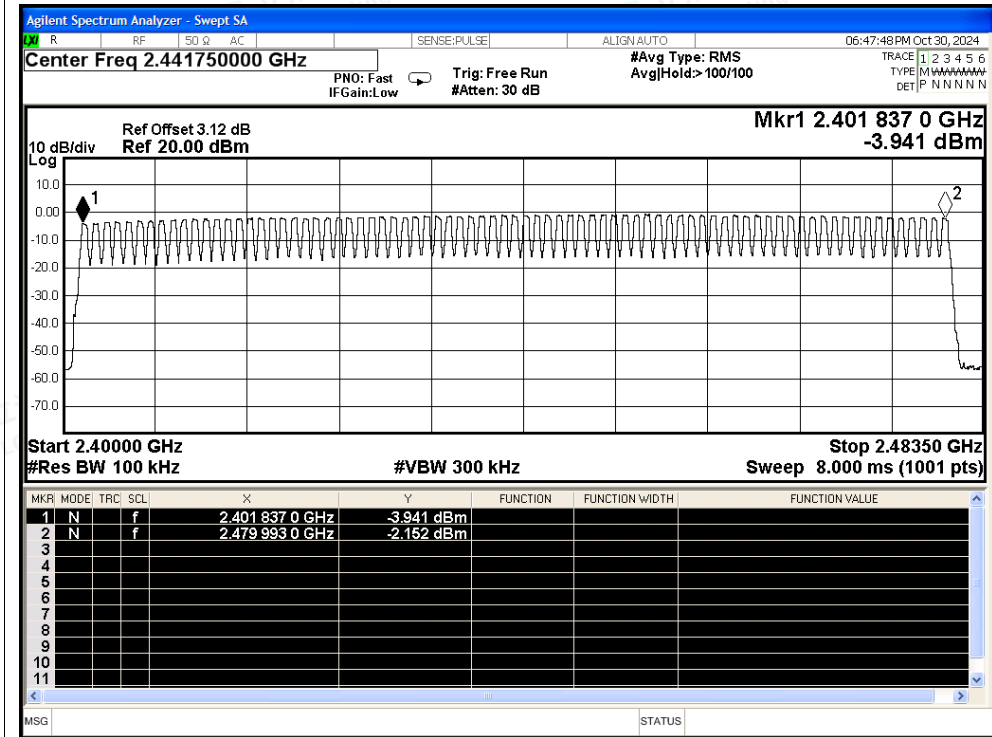
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



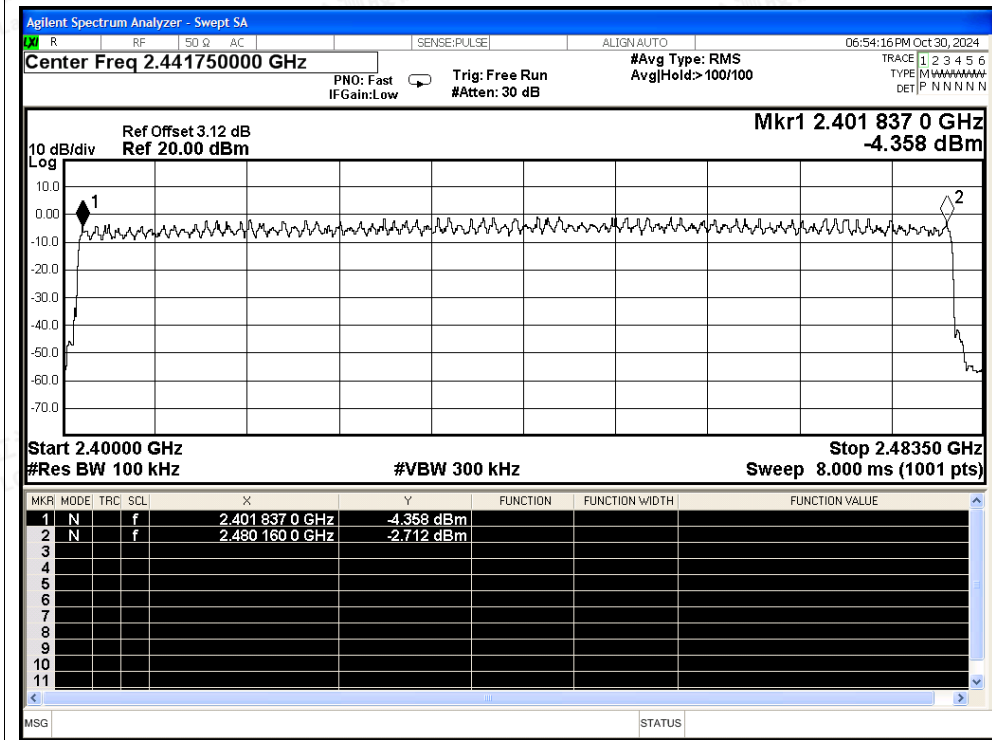


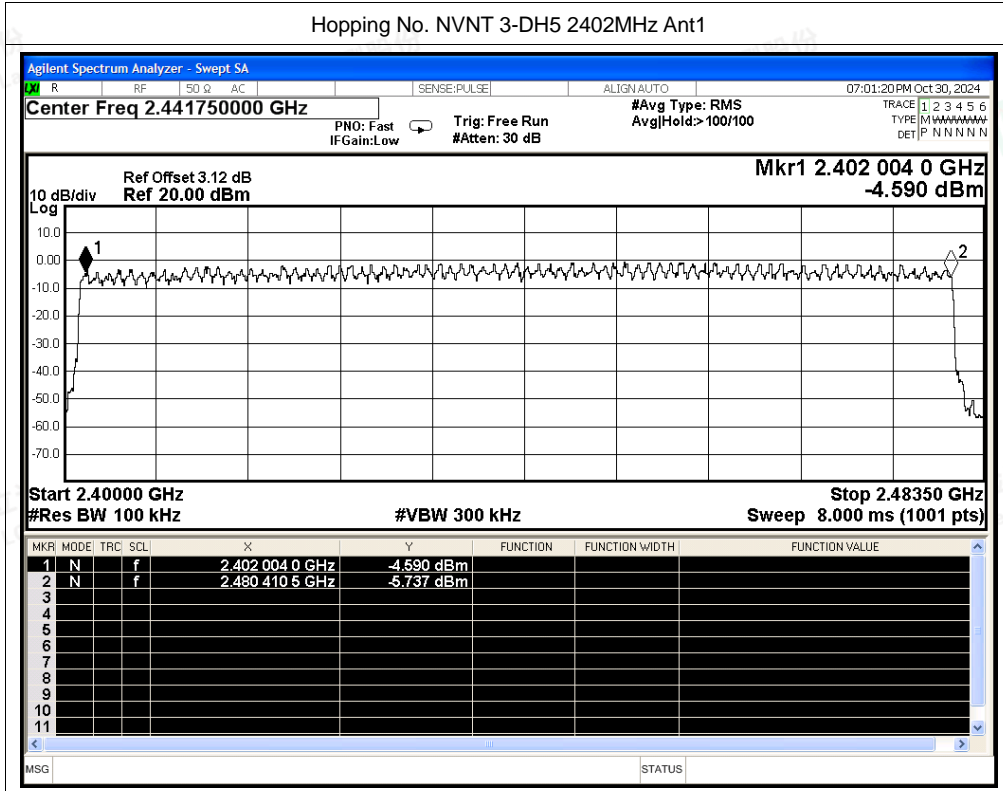
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

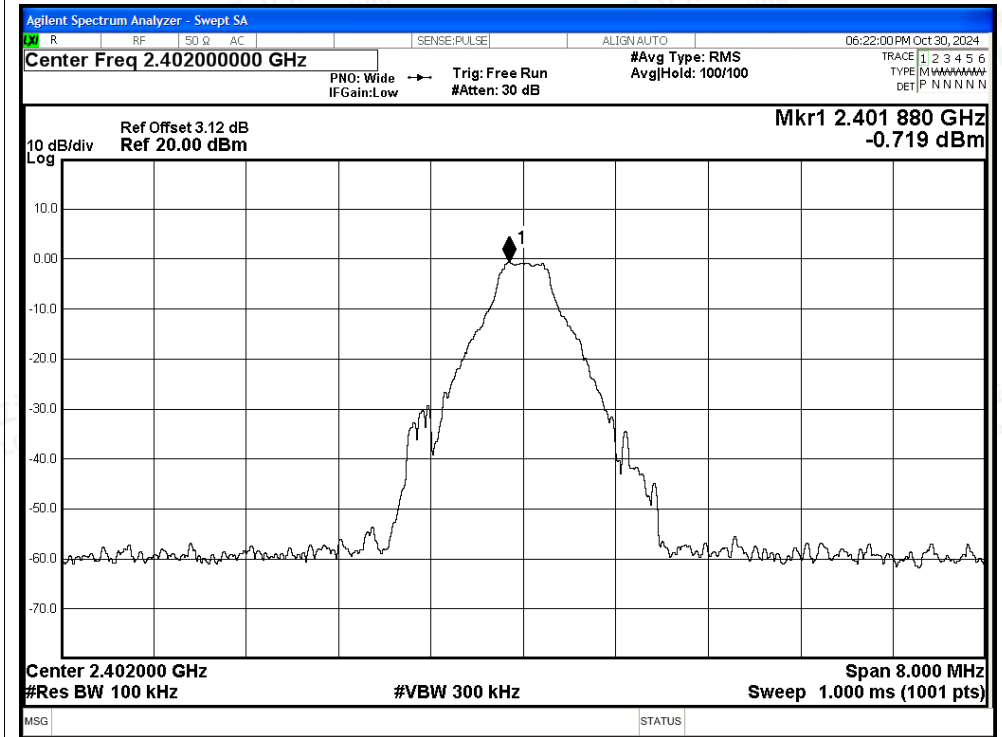
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.64	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.41	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-48.13	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.11	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.06	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.29	-20	Pass



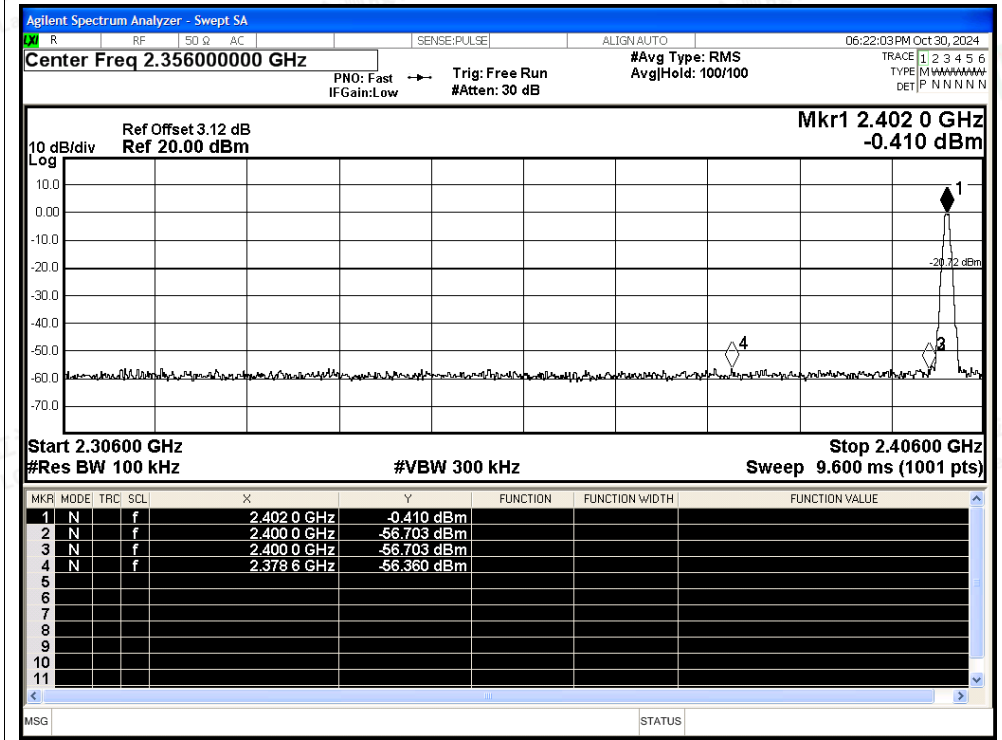


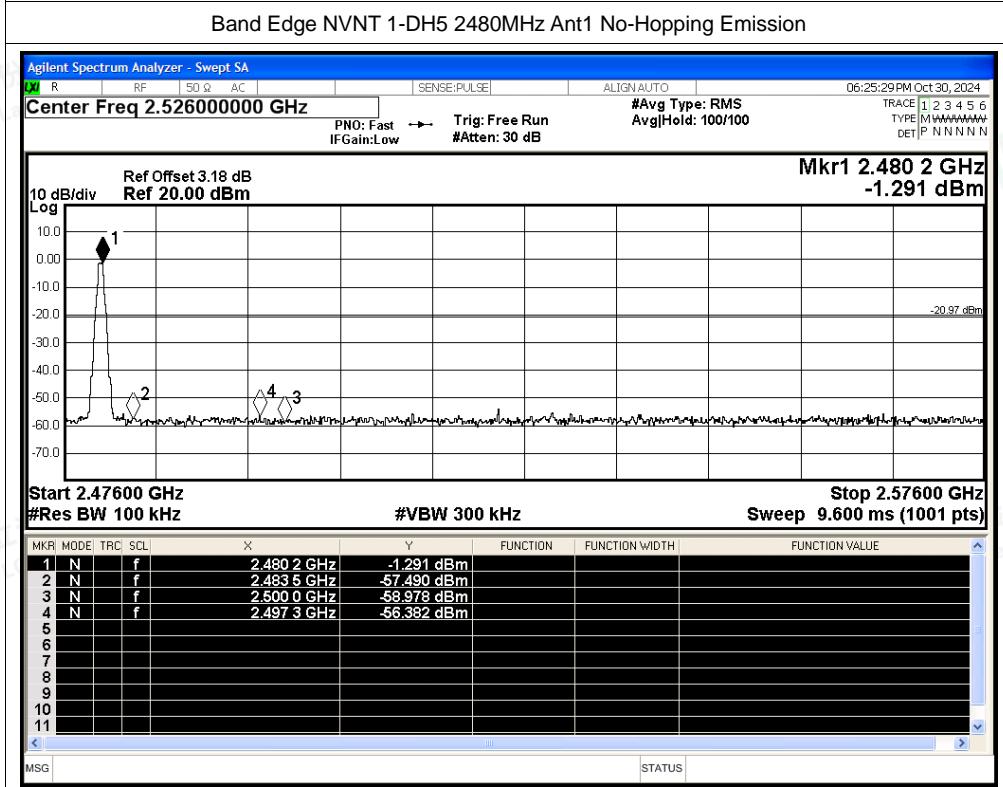
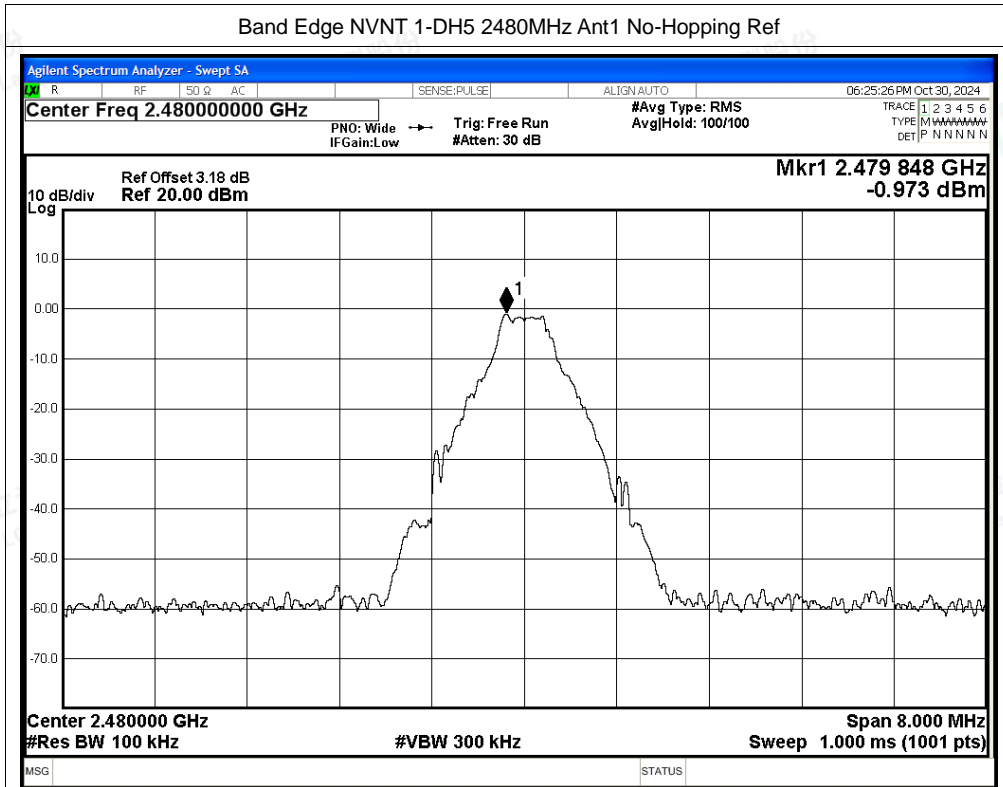
Test Graphs

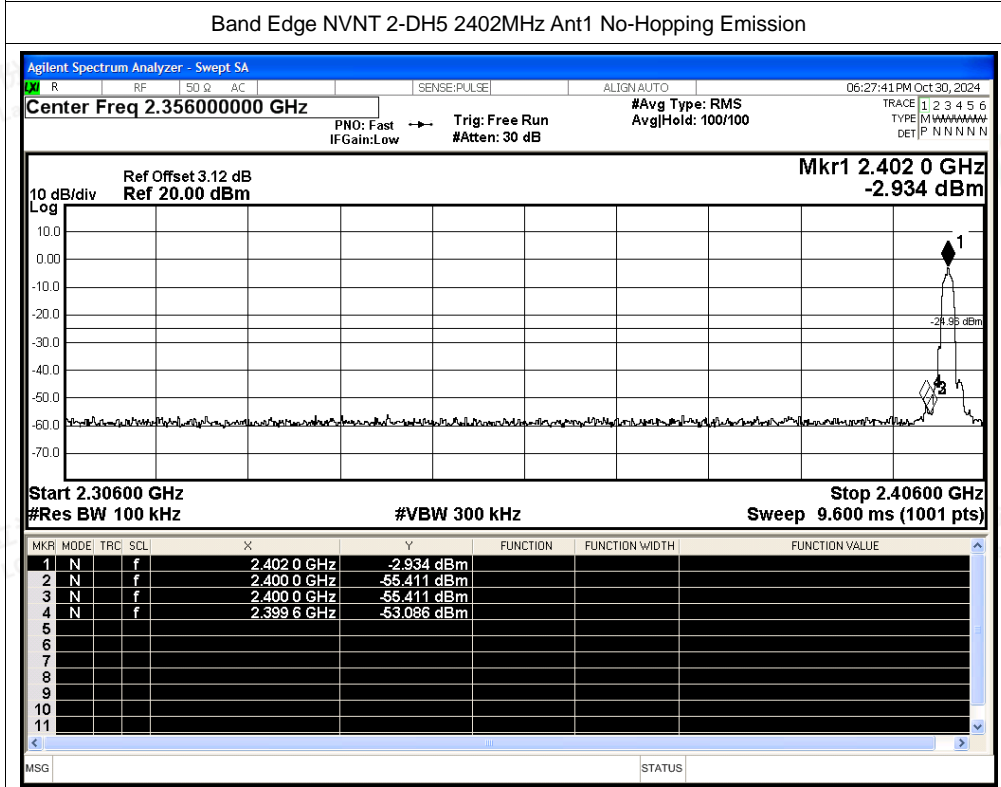
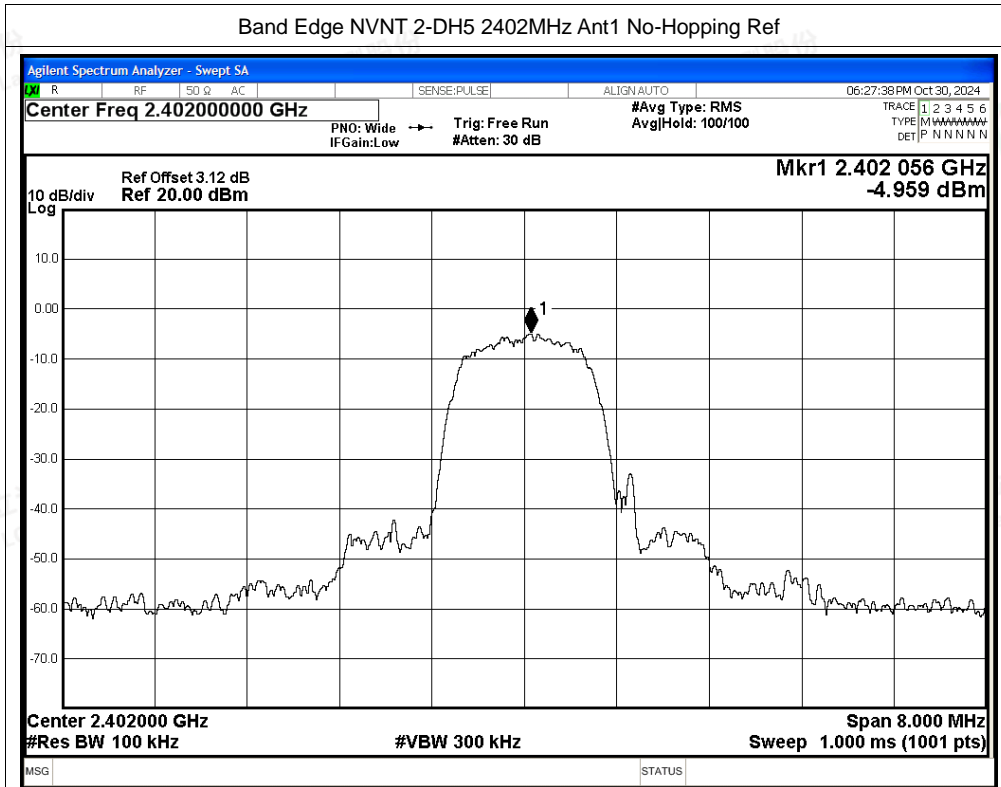
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



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

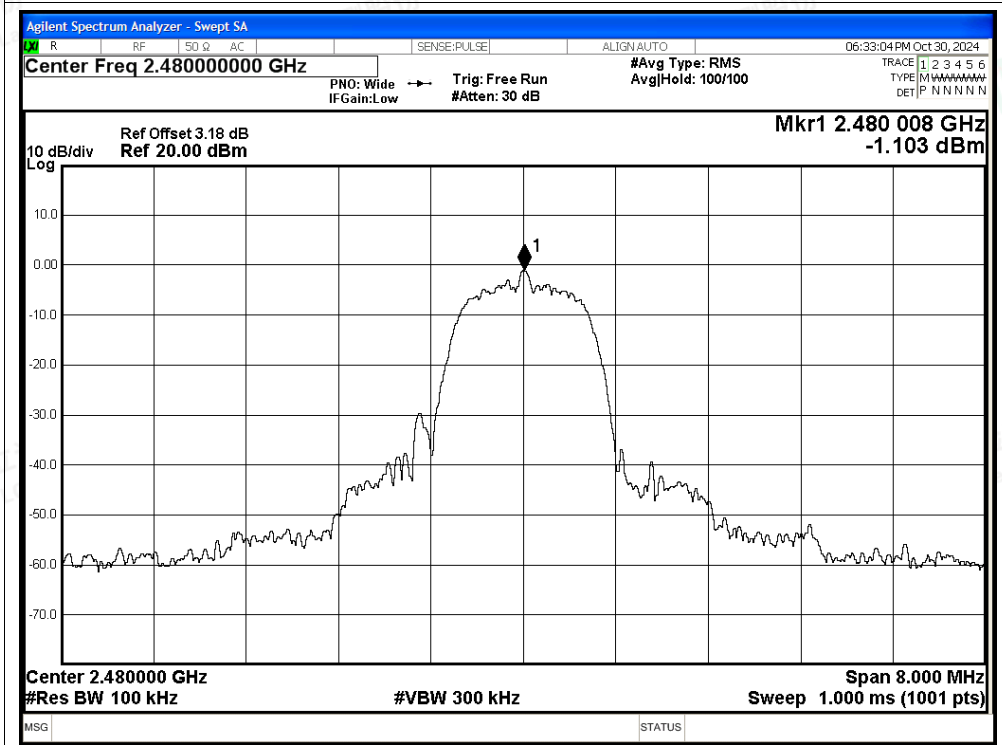




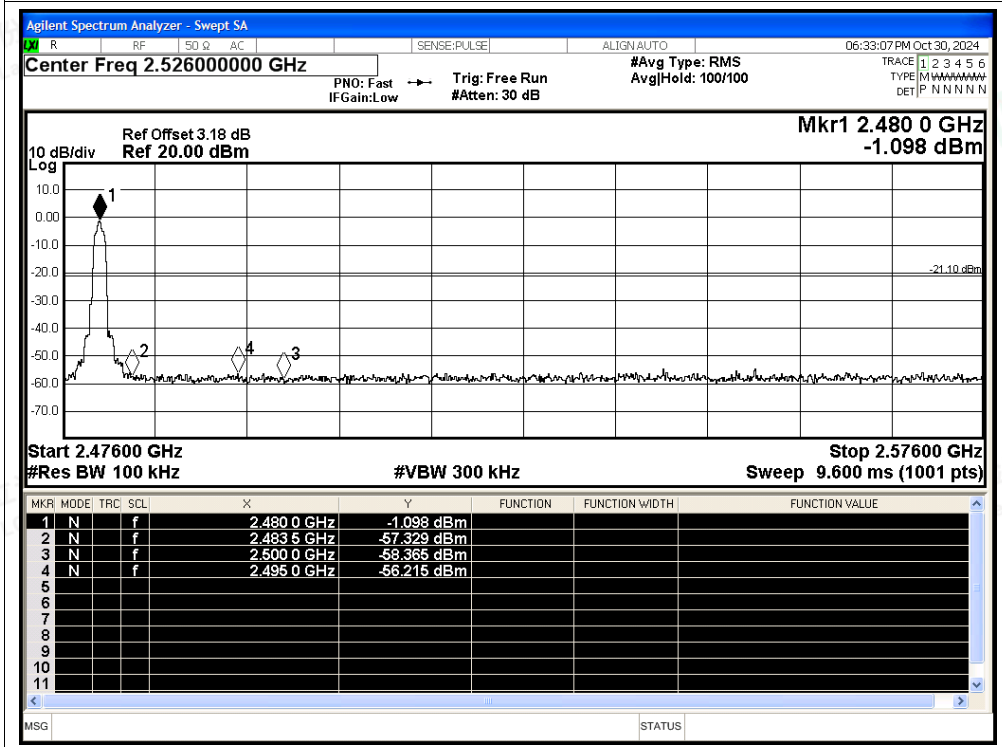




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

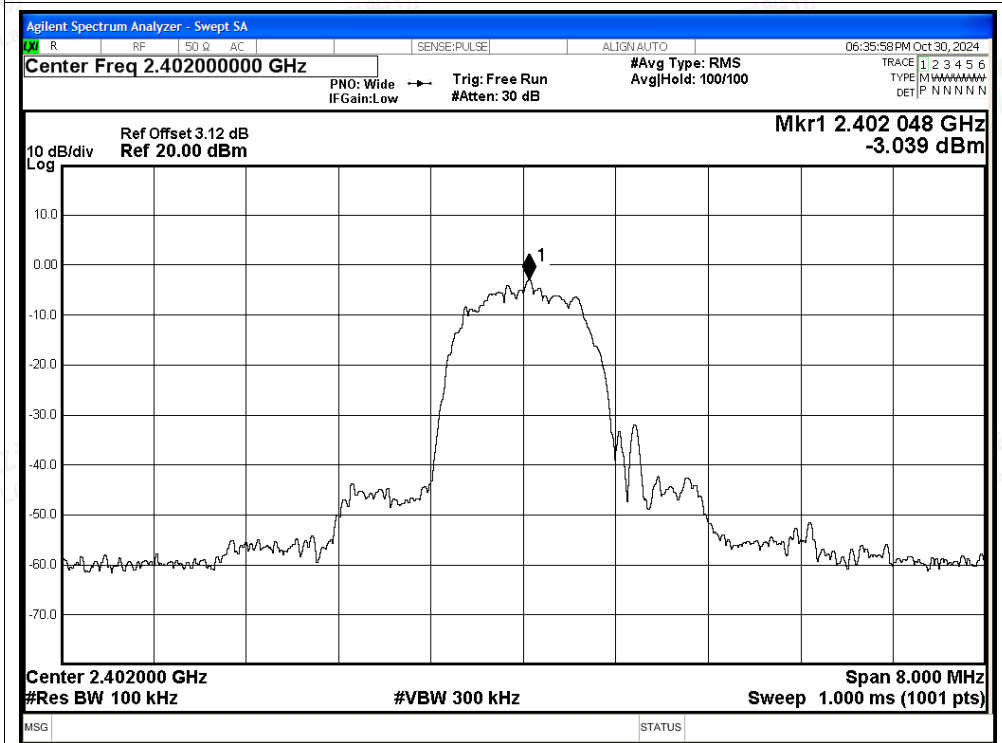
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

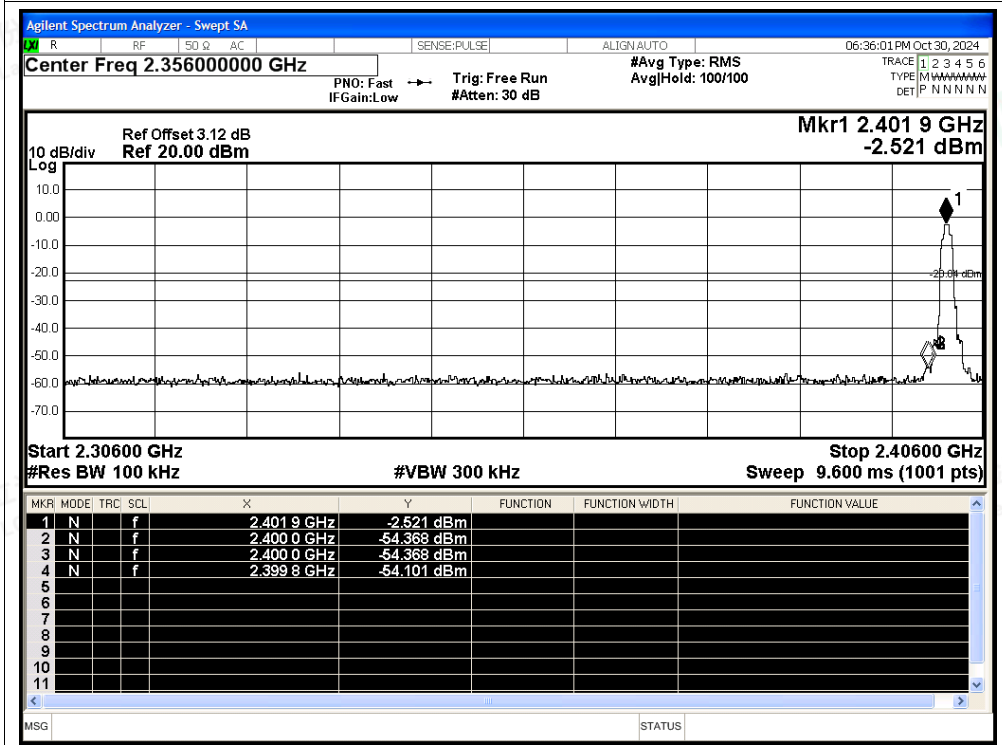
Scan code to check authenticity



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

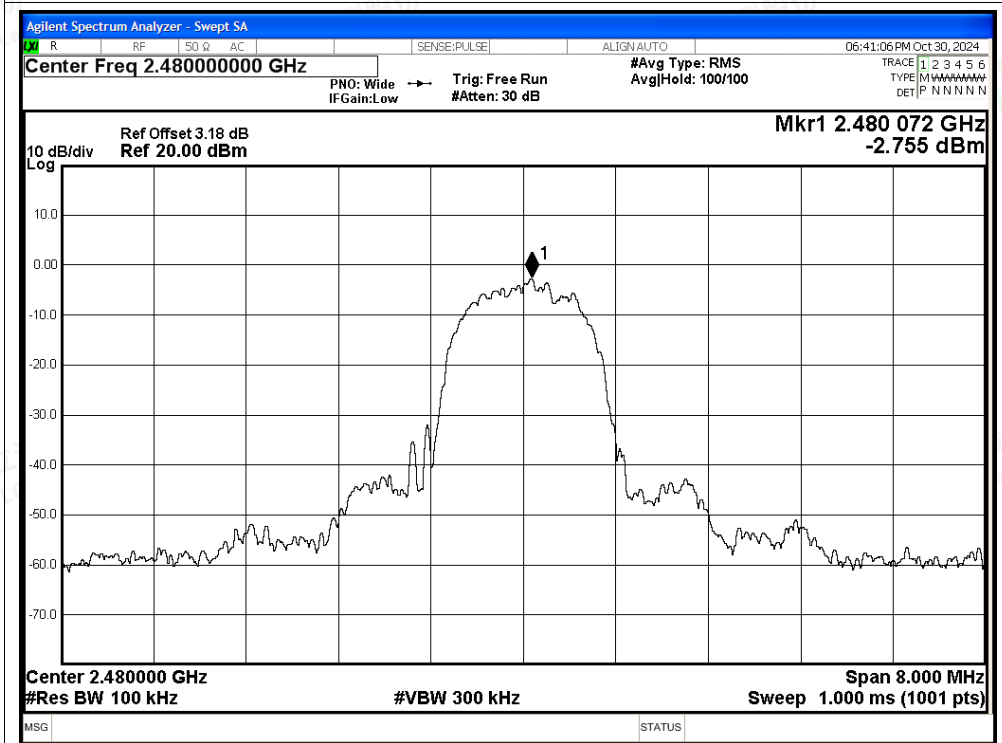


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

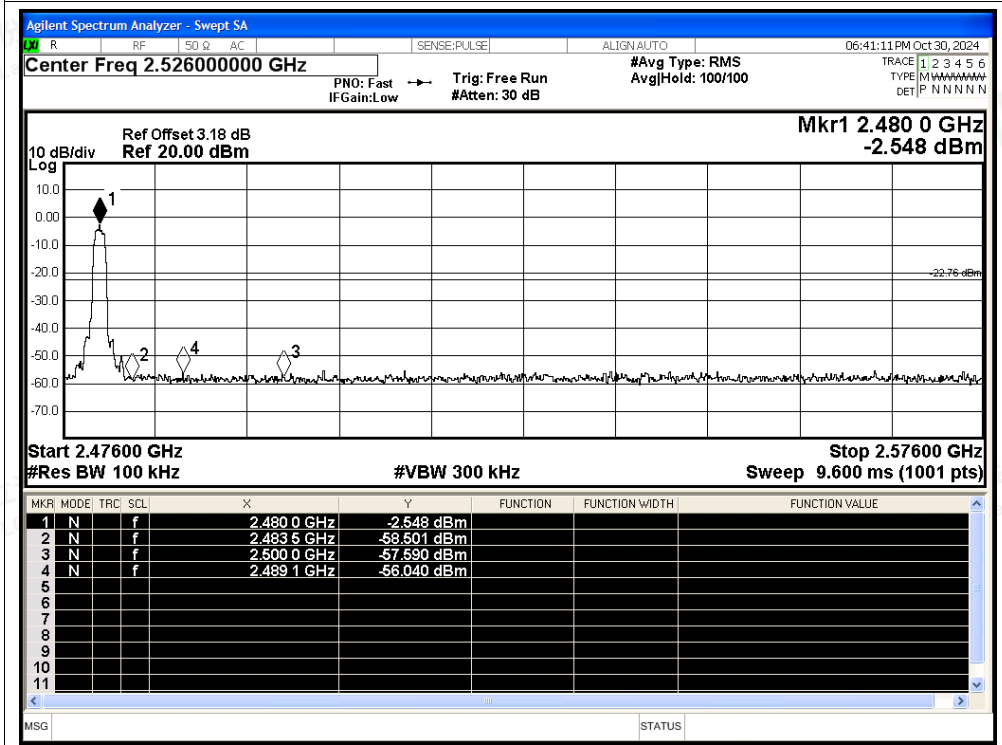




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission





(Hopping)

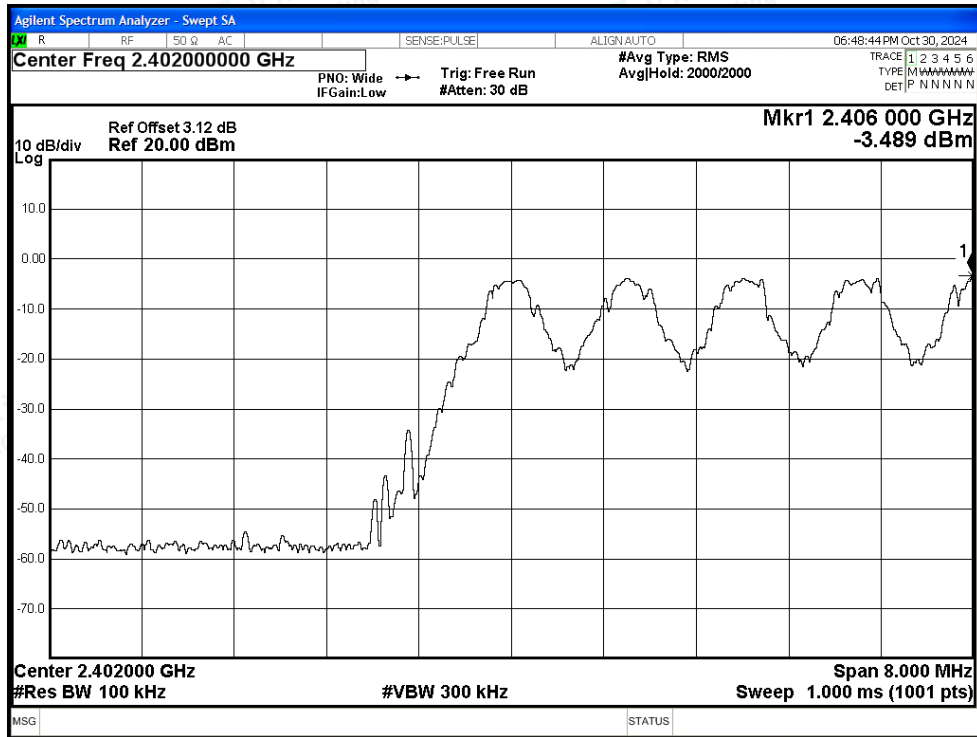
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-51.59	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-52.79	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-50.43	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.5	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.17	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-50.59	-20	Pass



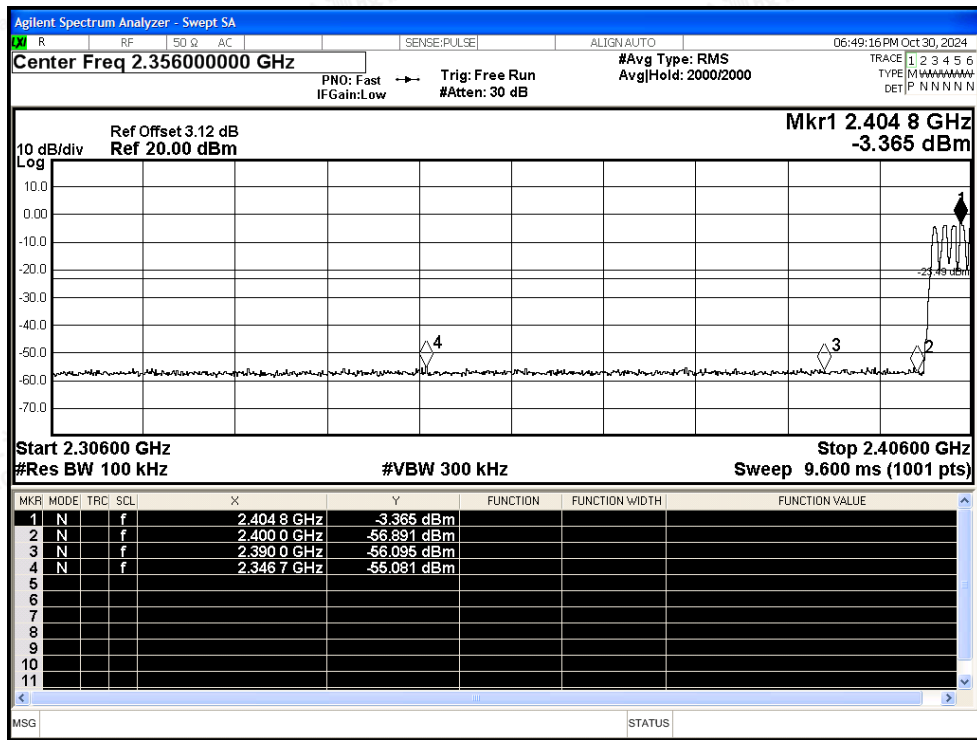


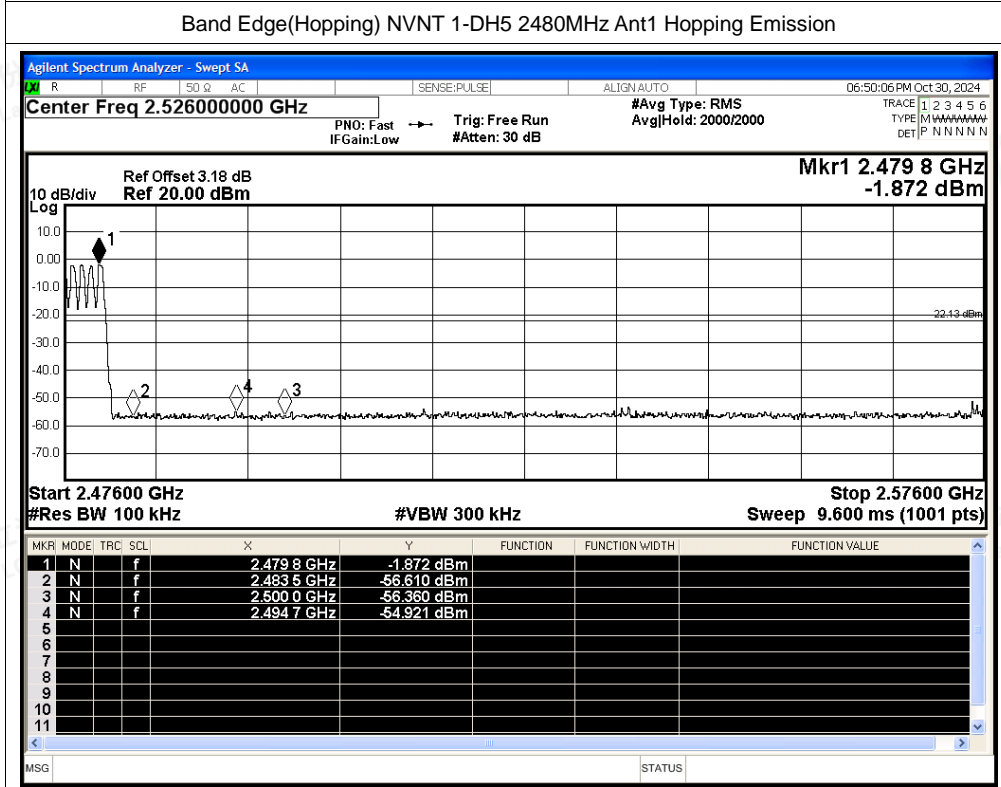
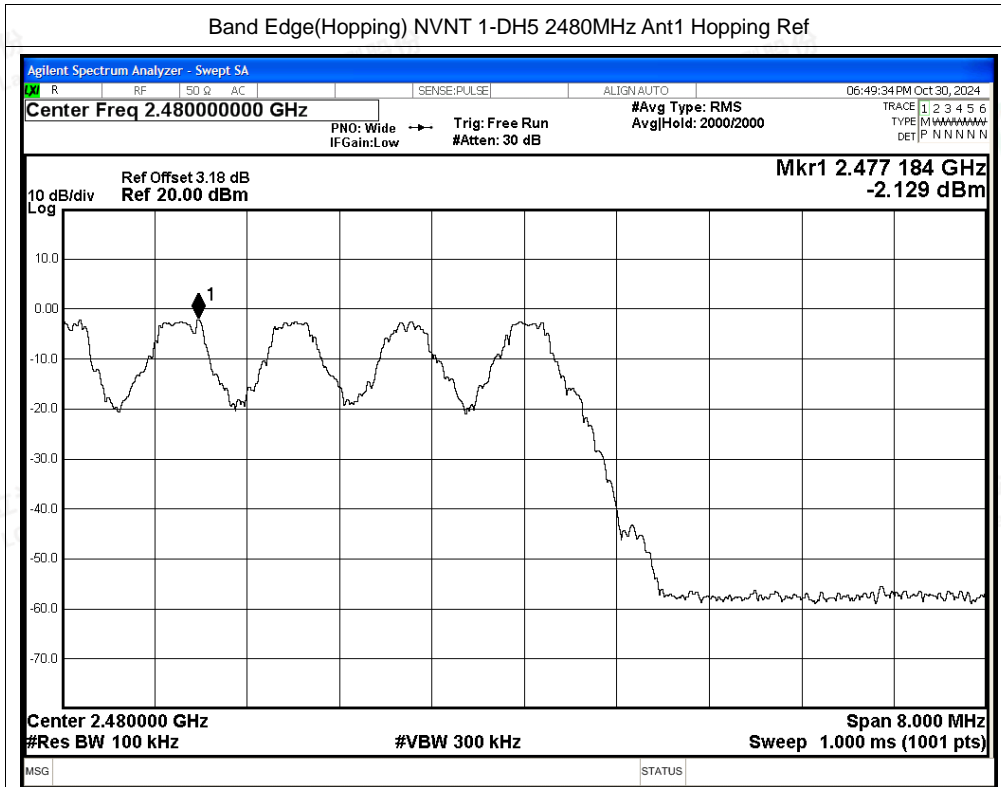
Test Graphs

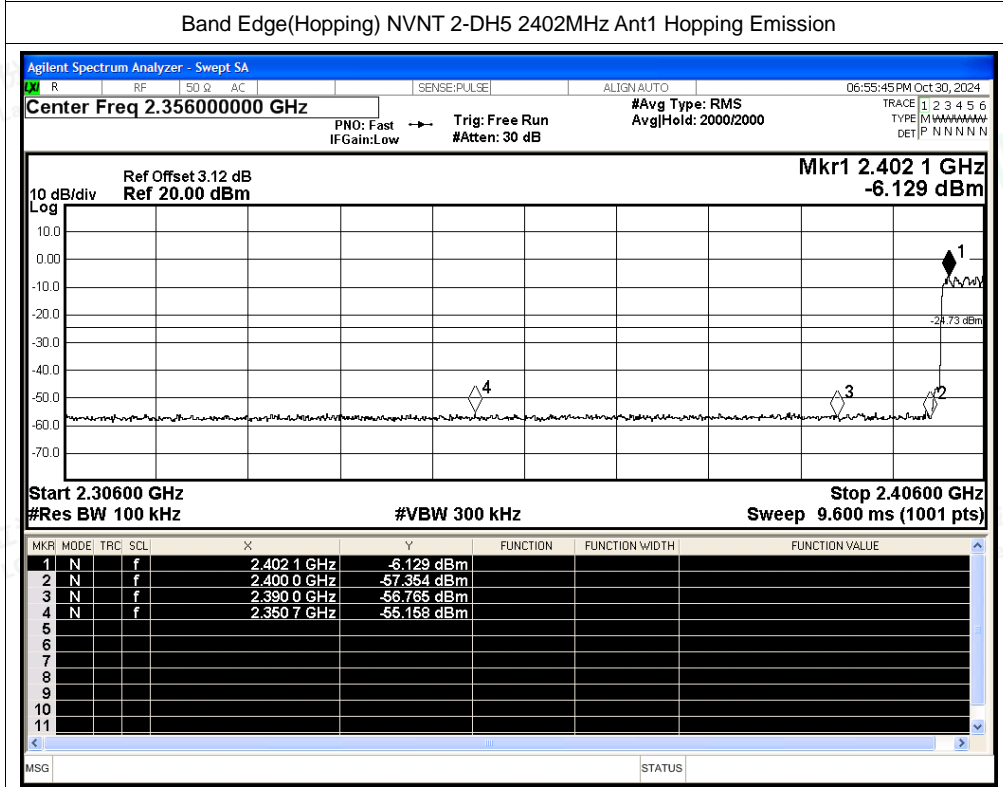
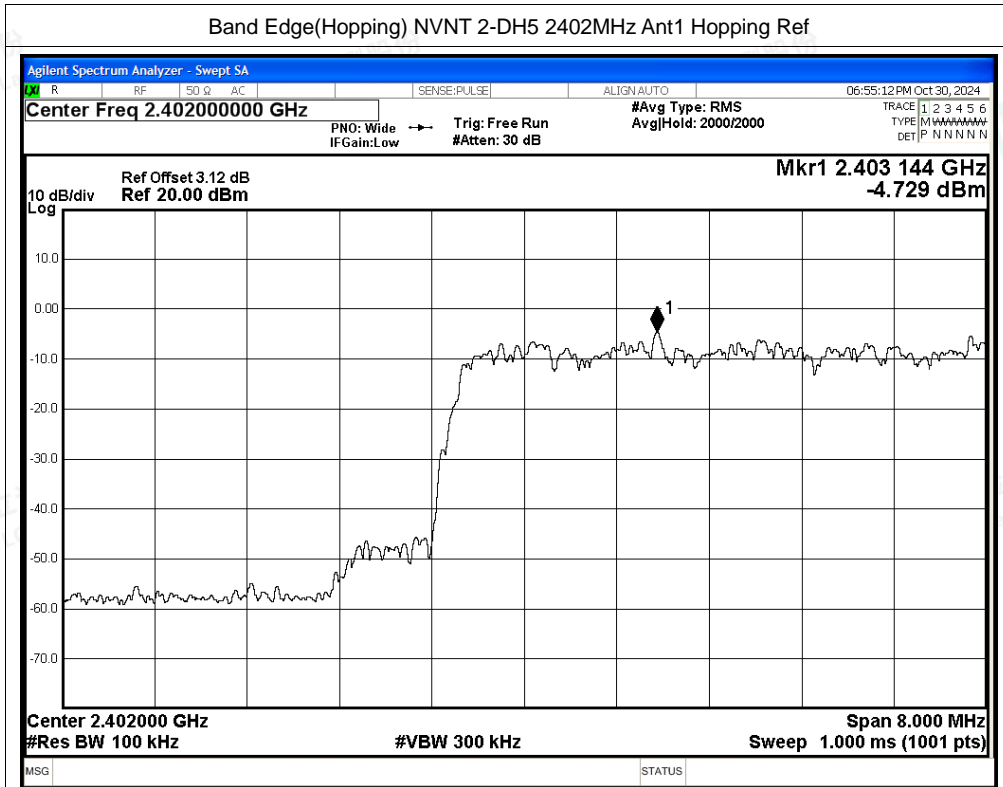
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

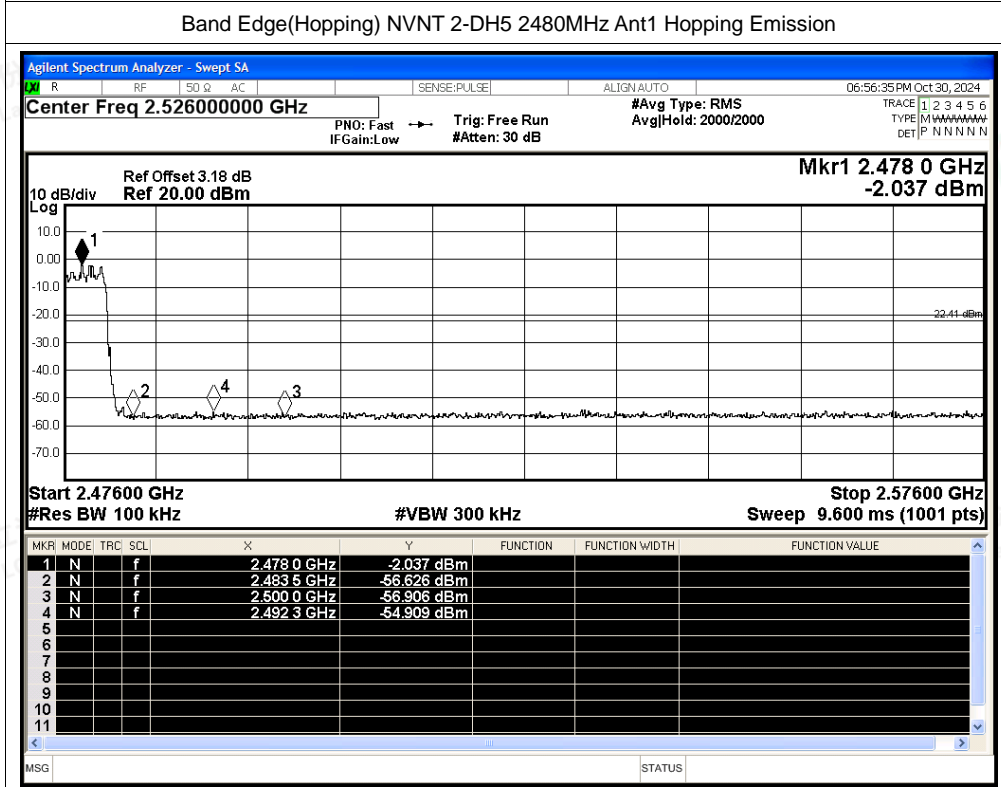
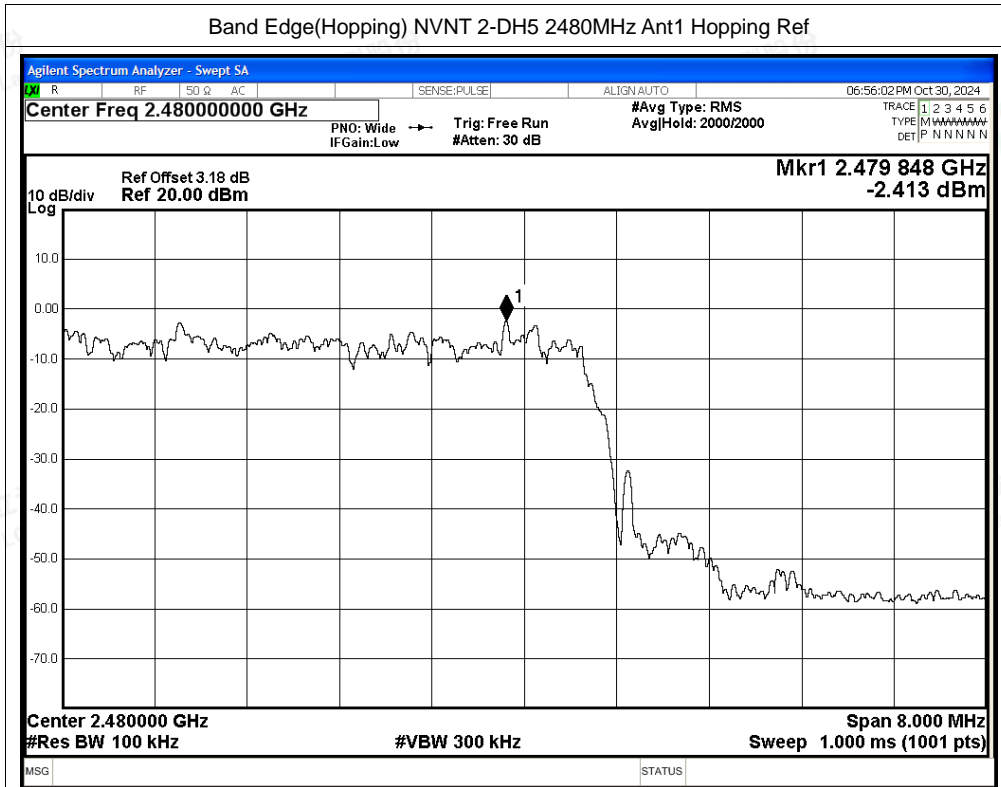


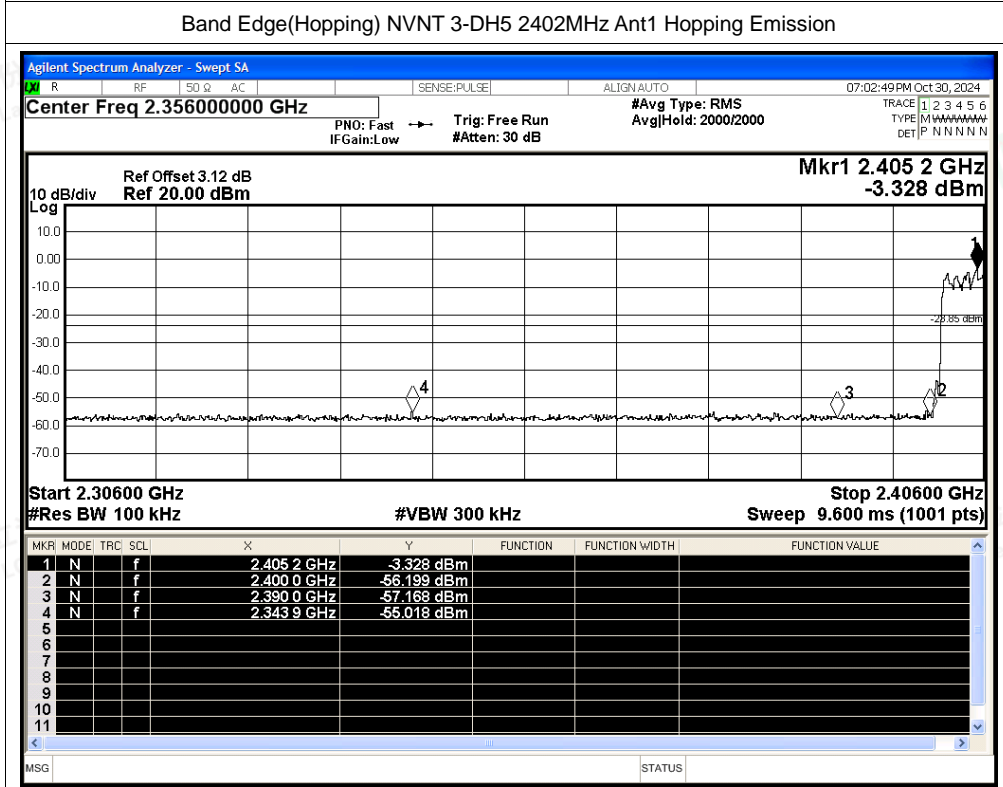
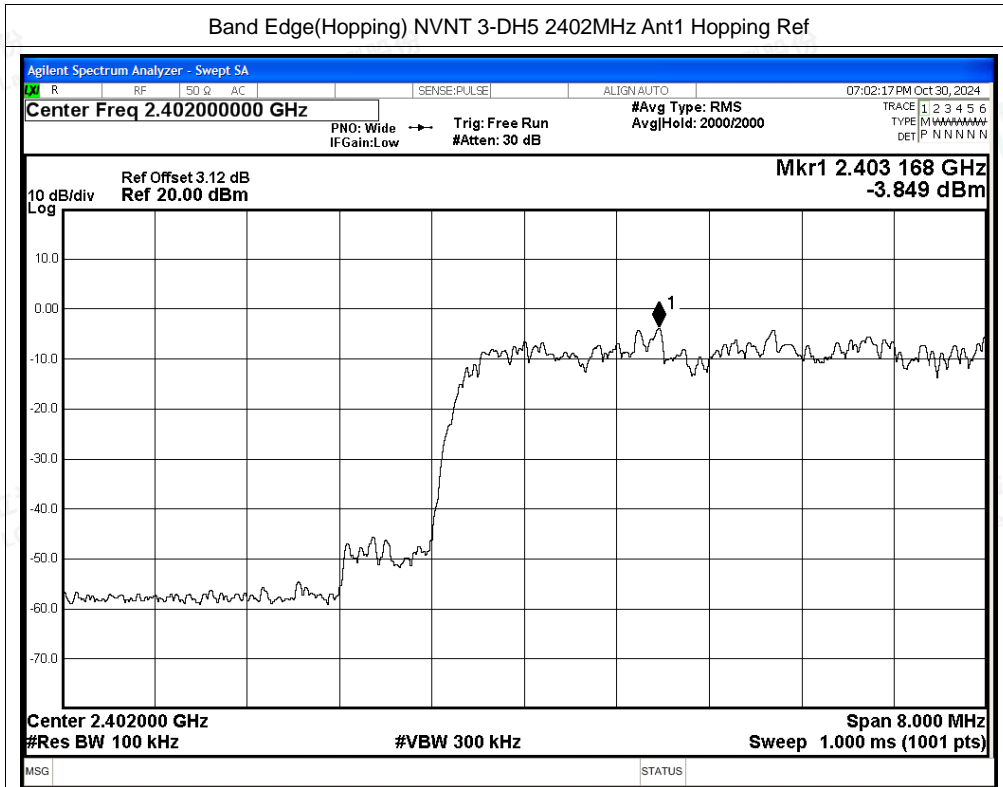
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

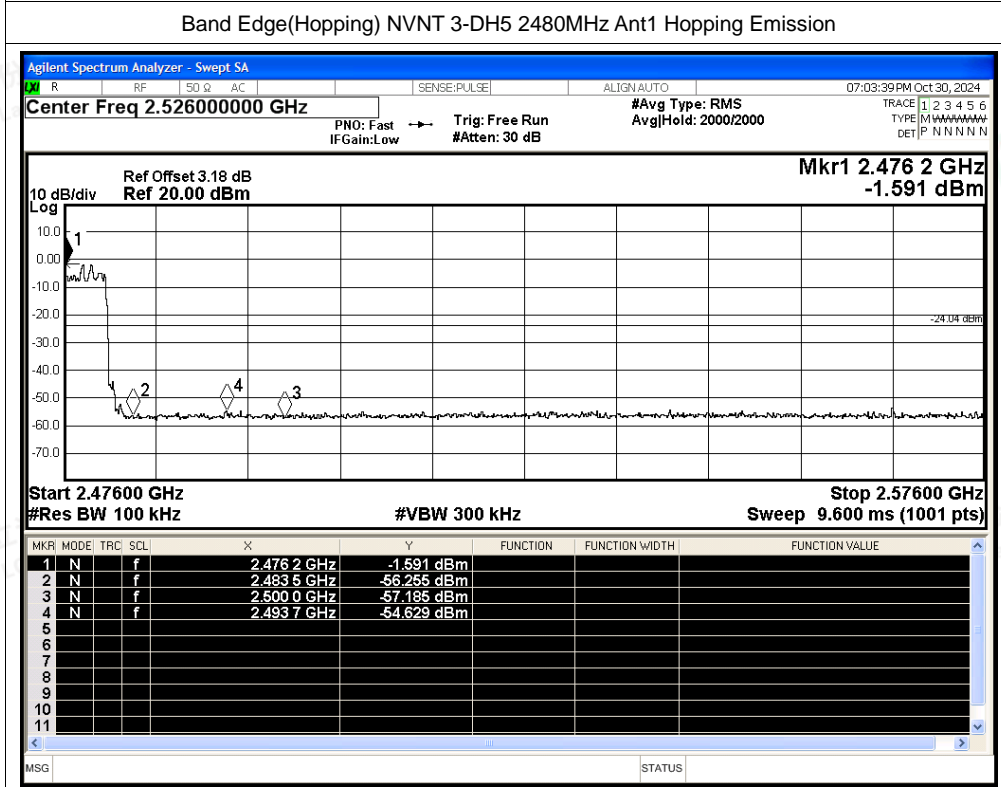
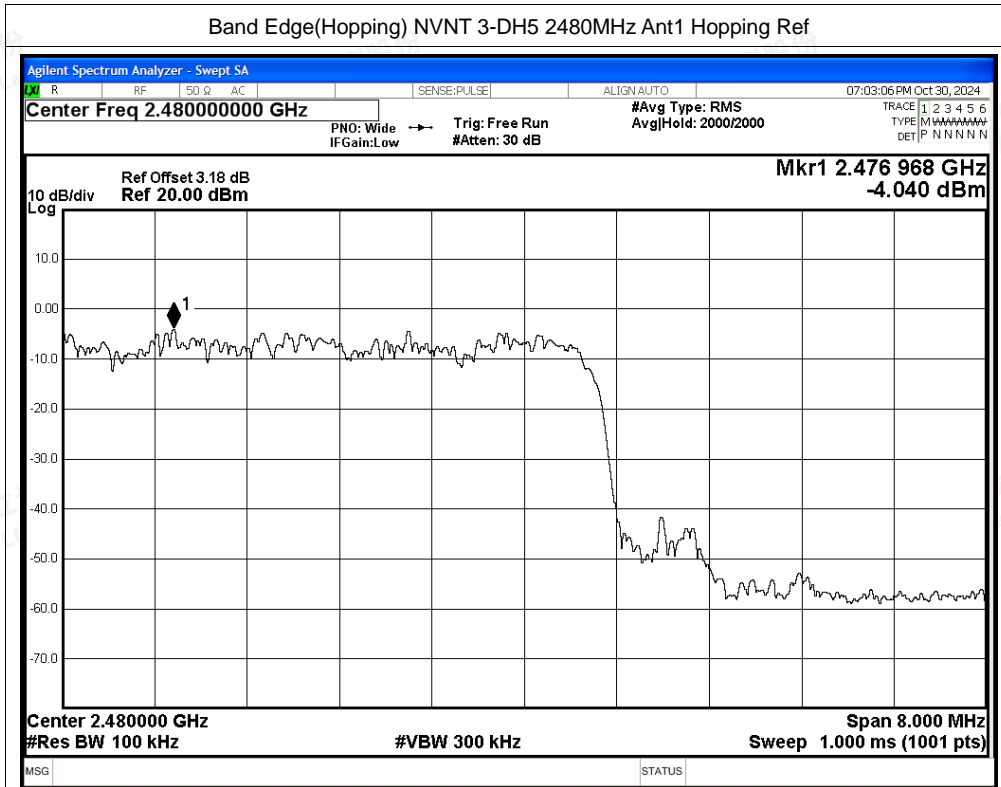














A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.6	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.51	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.22	-20	Pass
NVNT	2-DH5	2402	Ant1	-46.54	-20	Pass
NVNT	2-DH5	2441	Ant1	-50.44	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.02	-20	Pass
NVNT	3-DH5	2402	Ant1	-50.94	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.31	-20	Pass
NVNT	3-DH5	2480	Ant1	-51.69	-20	Pass

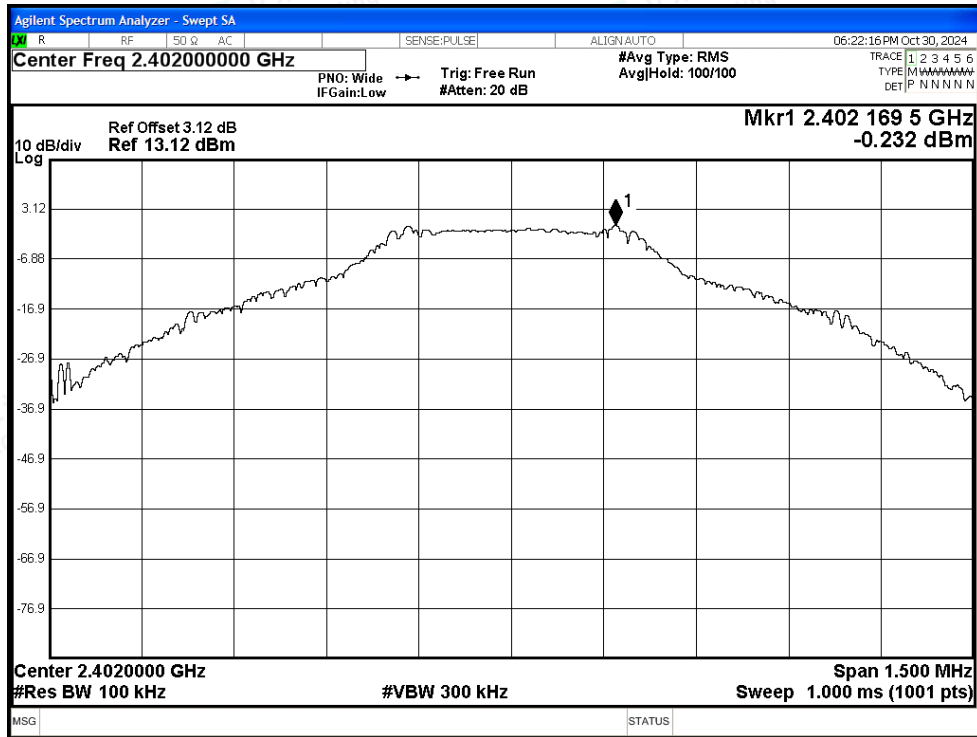


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

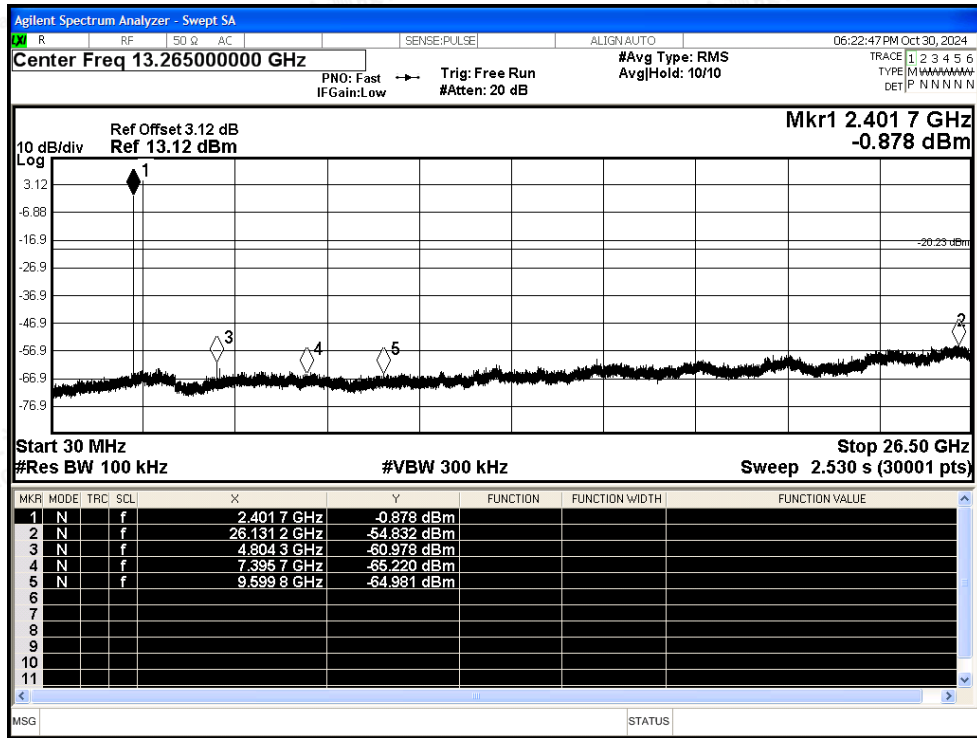


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

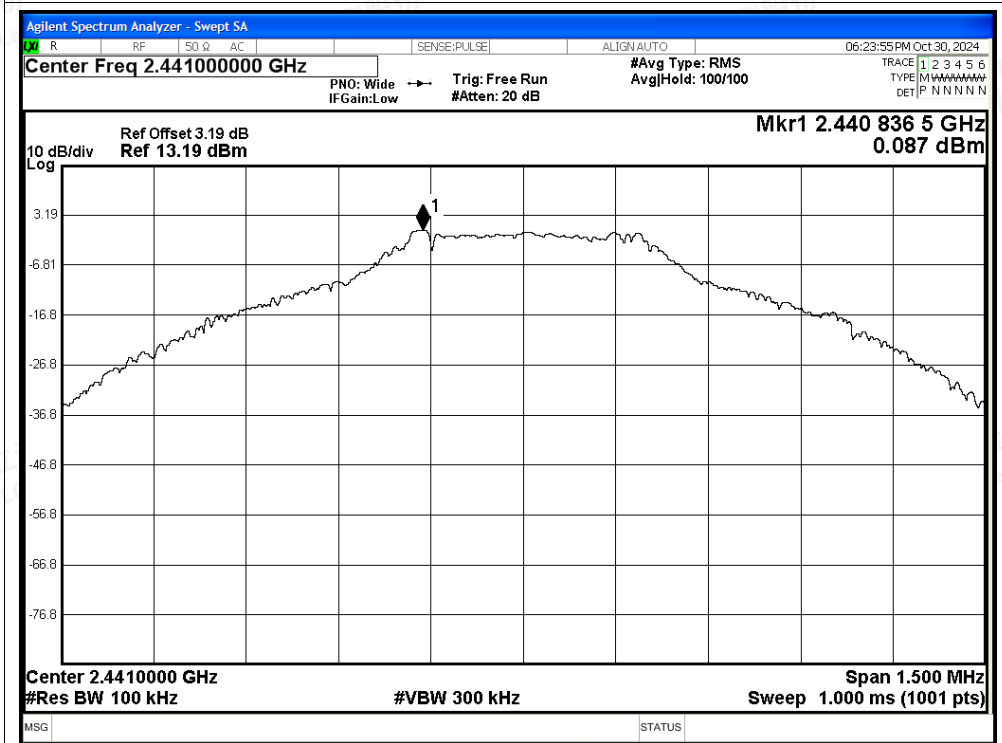


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

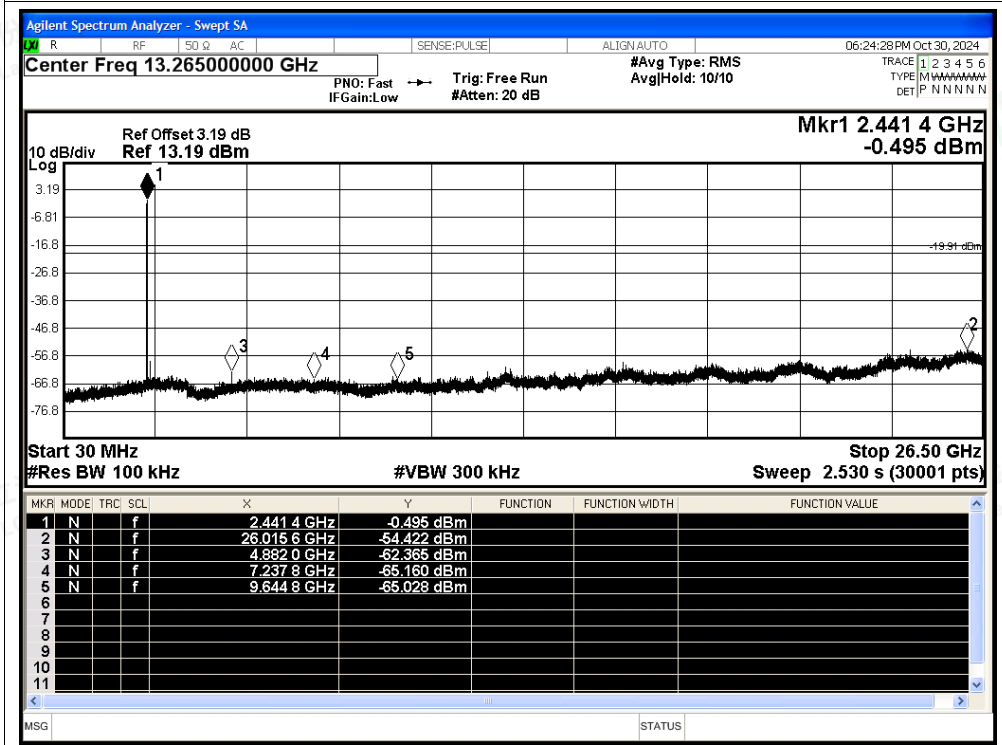




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

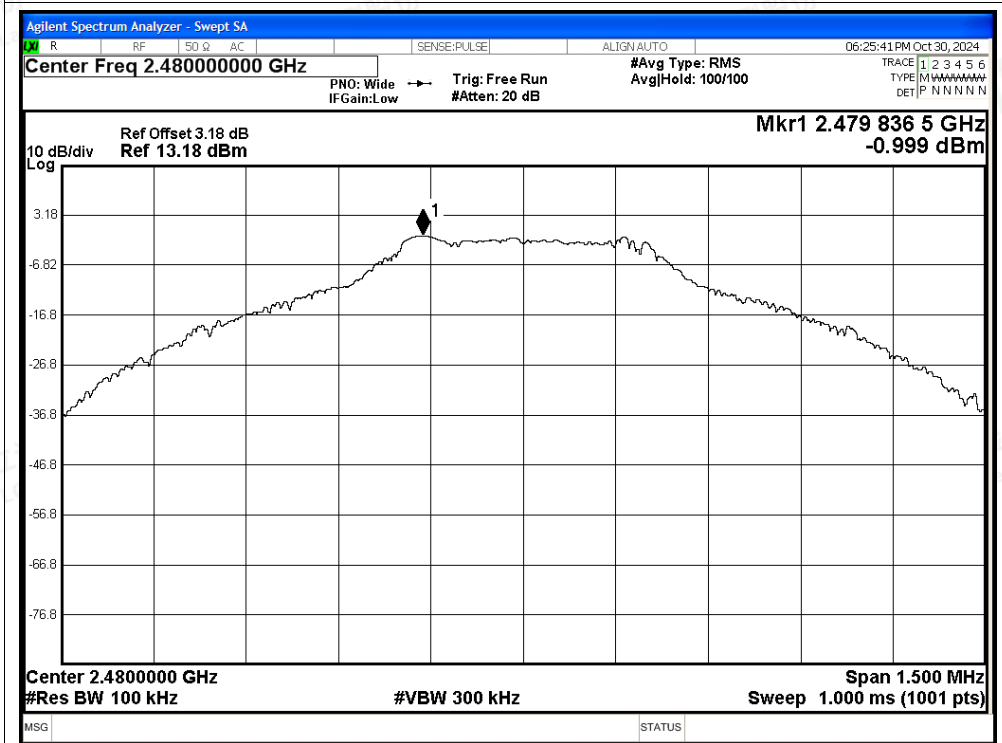


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

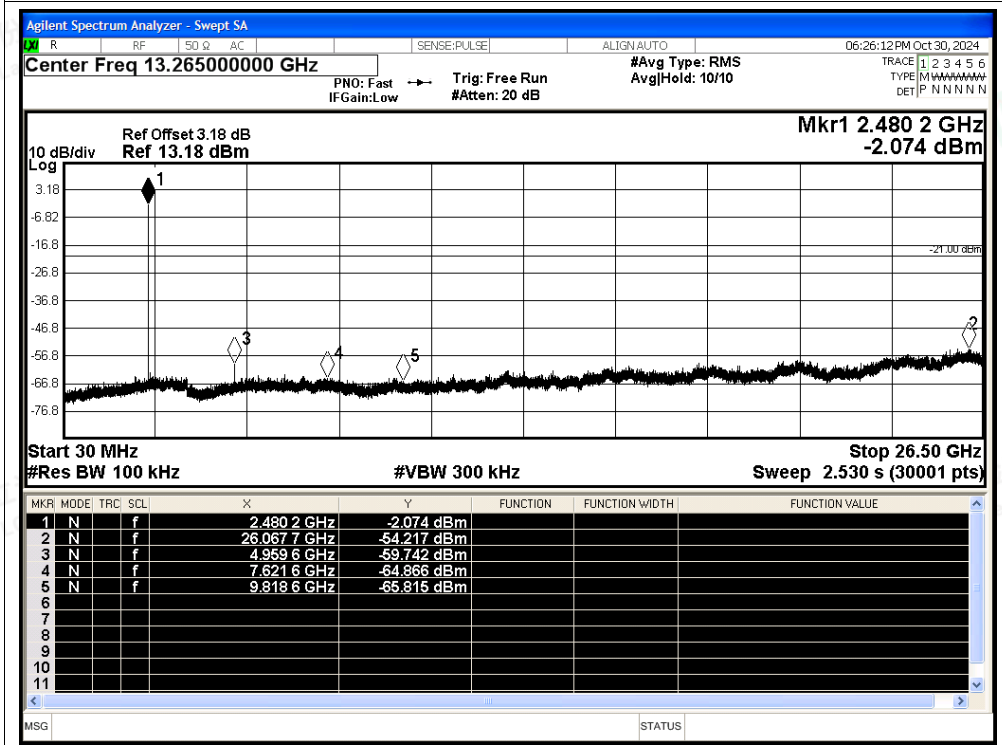




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

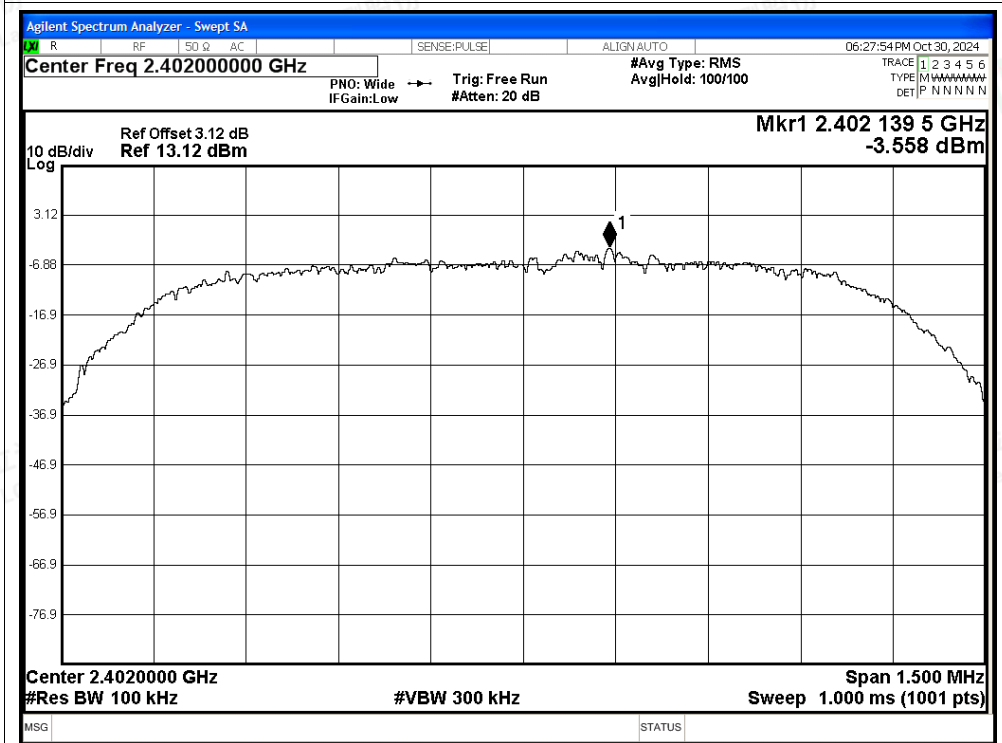


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

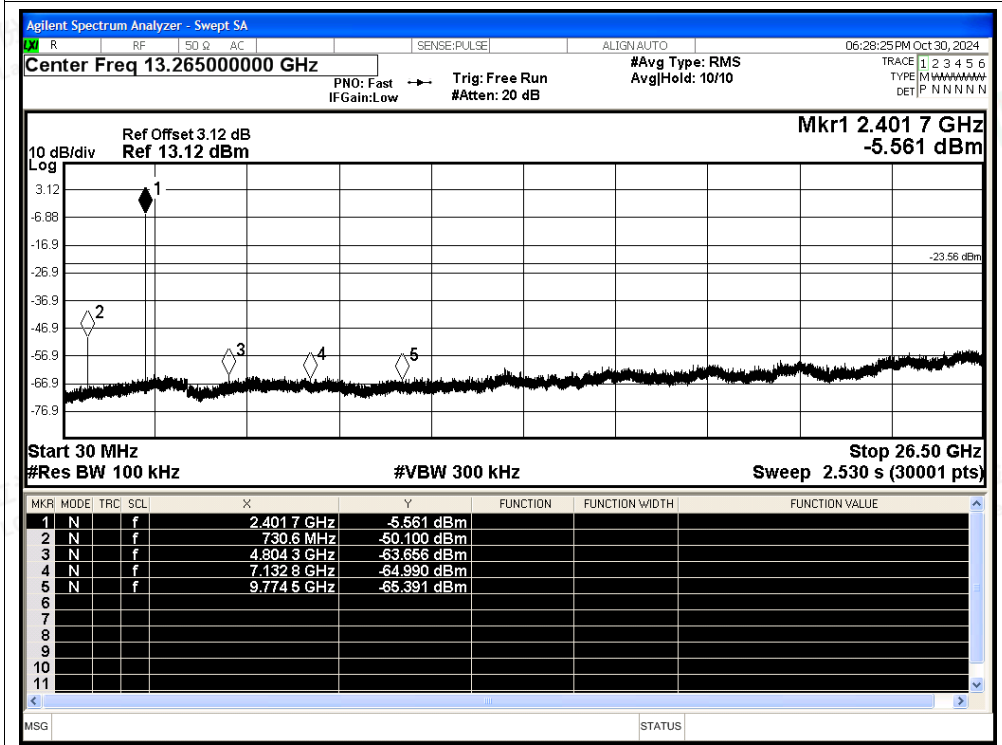




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

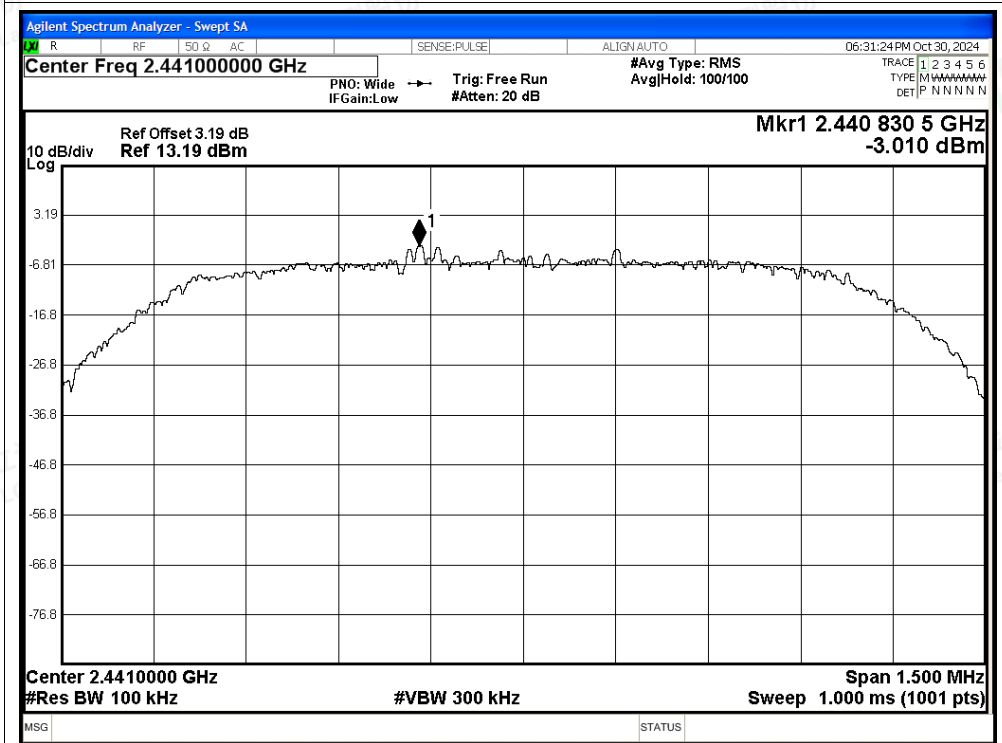


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

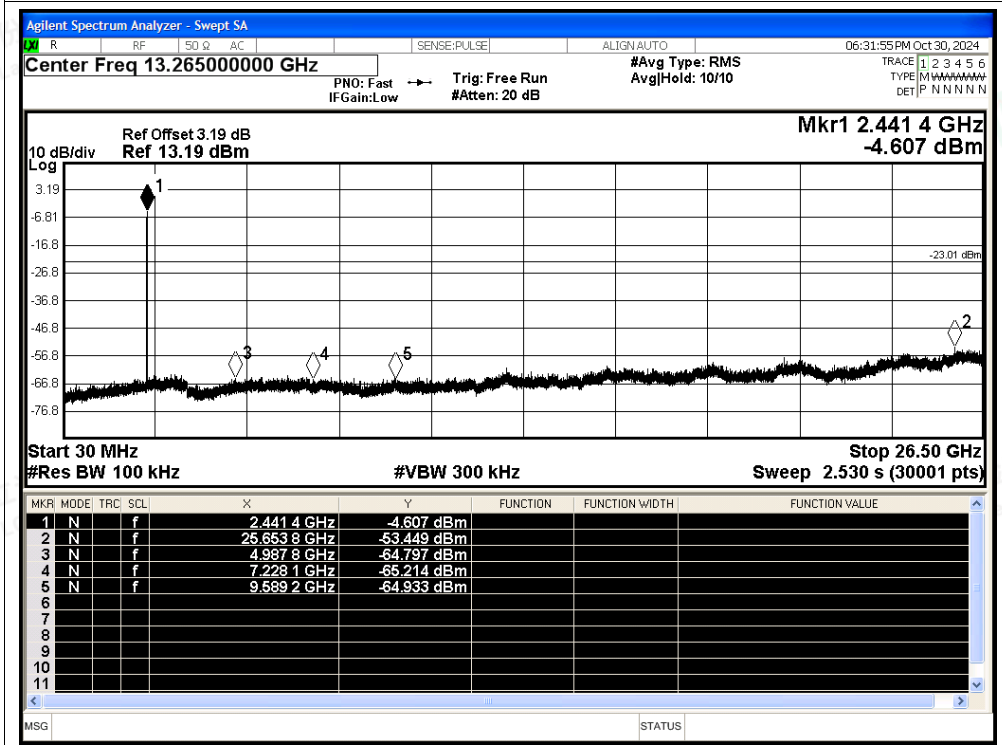




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

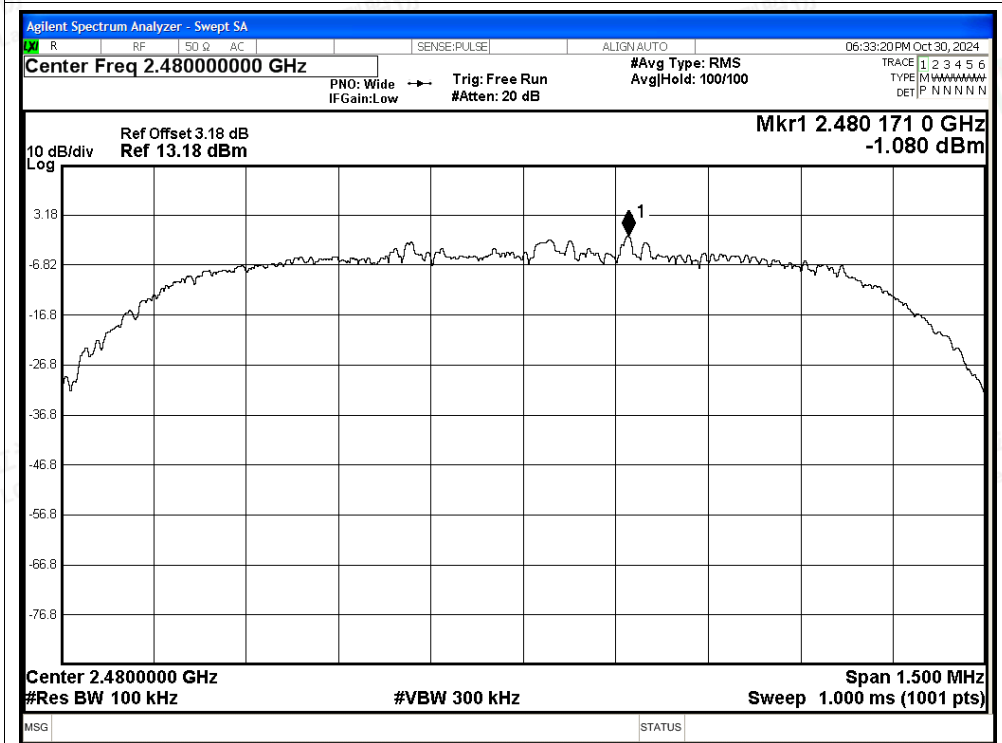


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

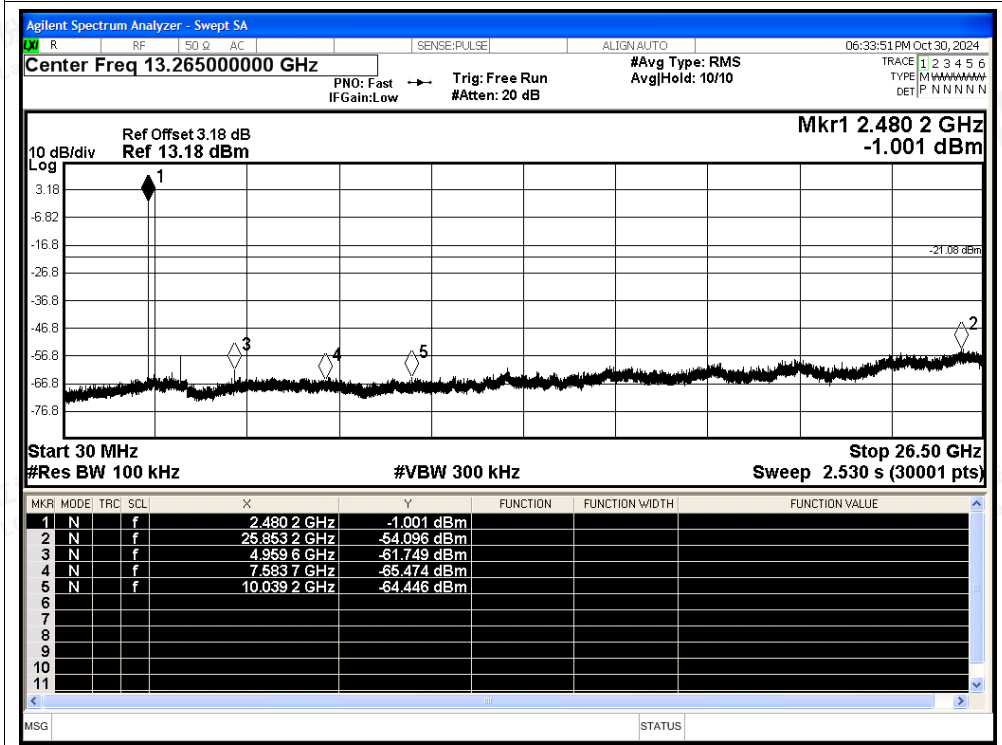




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

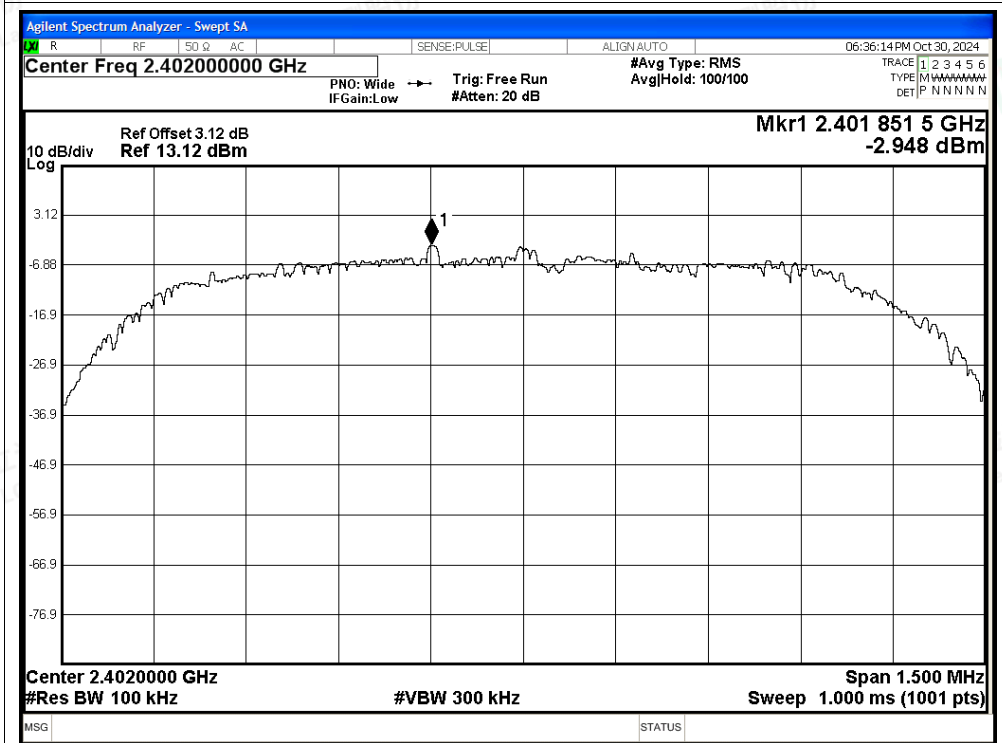


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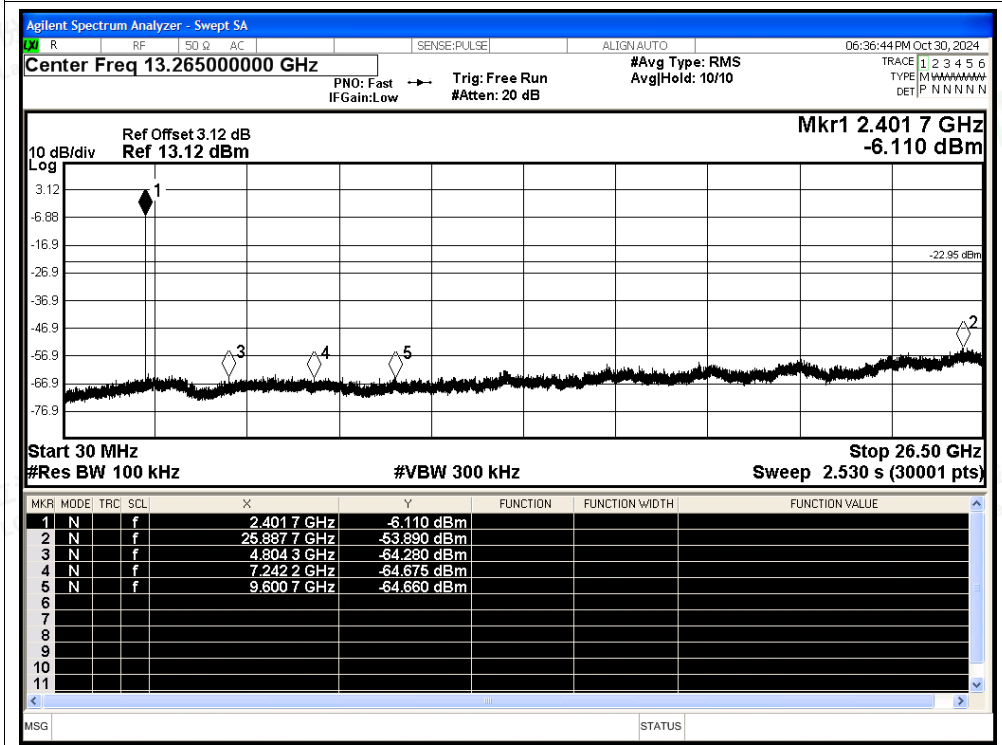




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

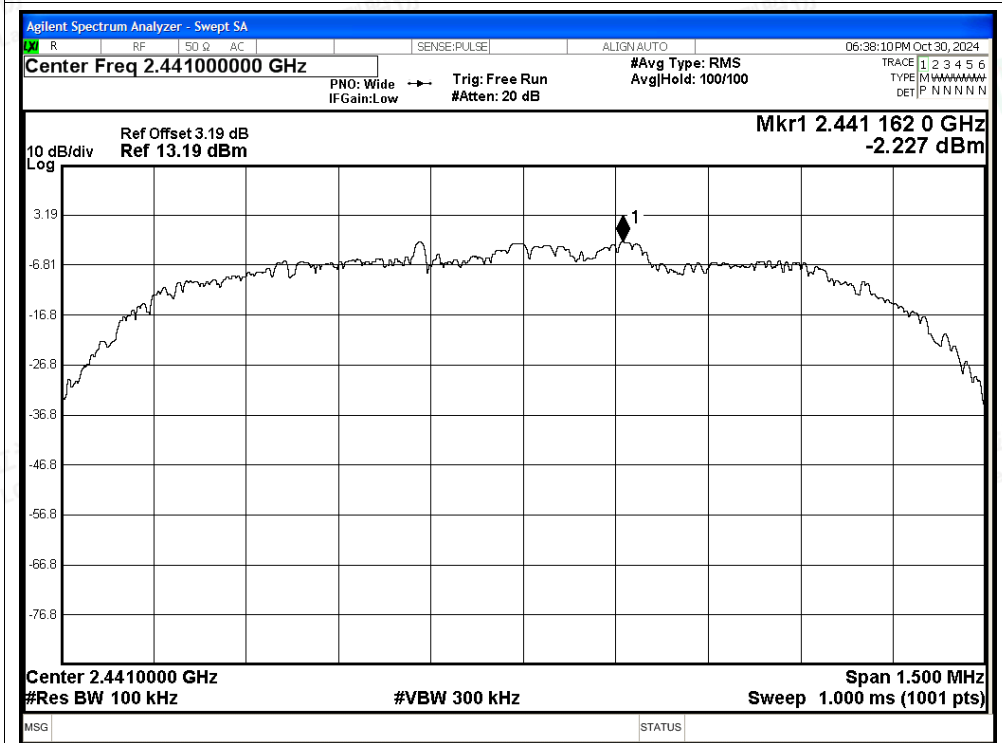


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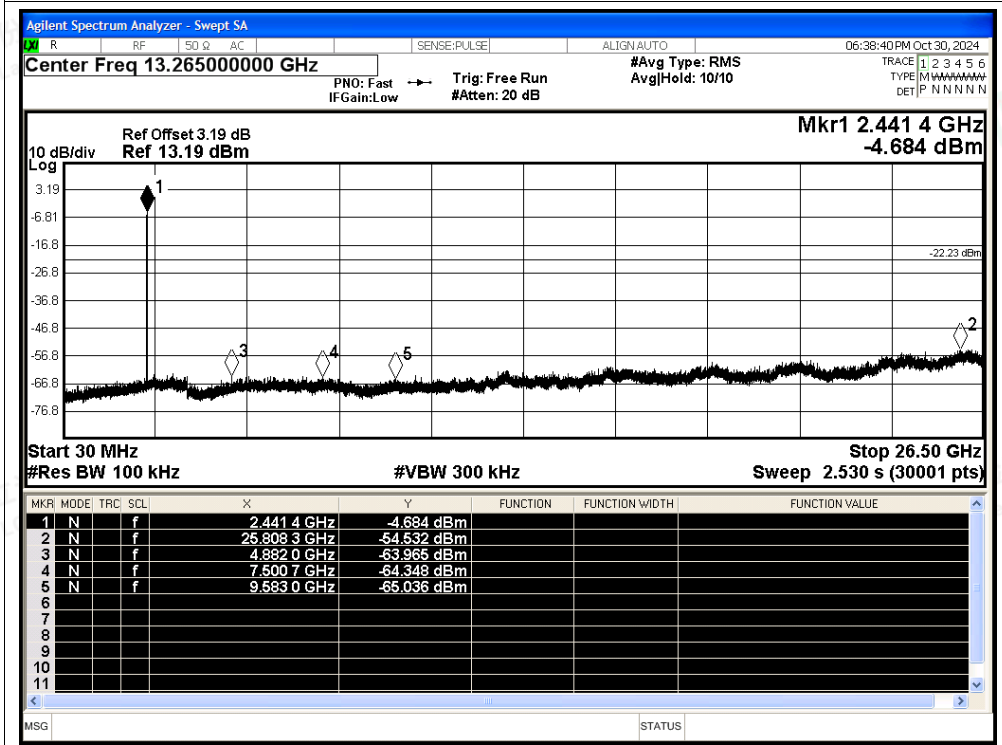




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

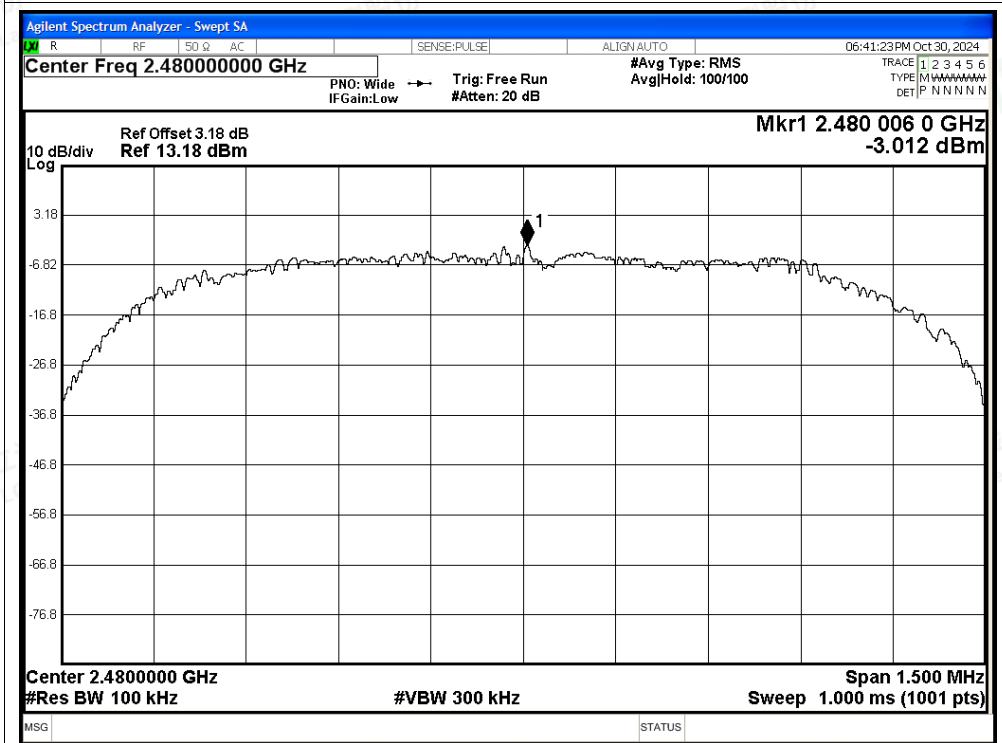


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

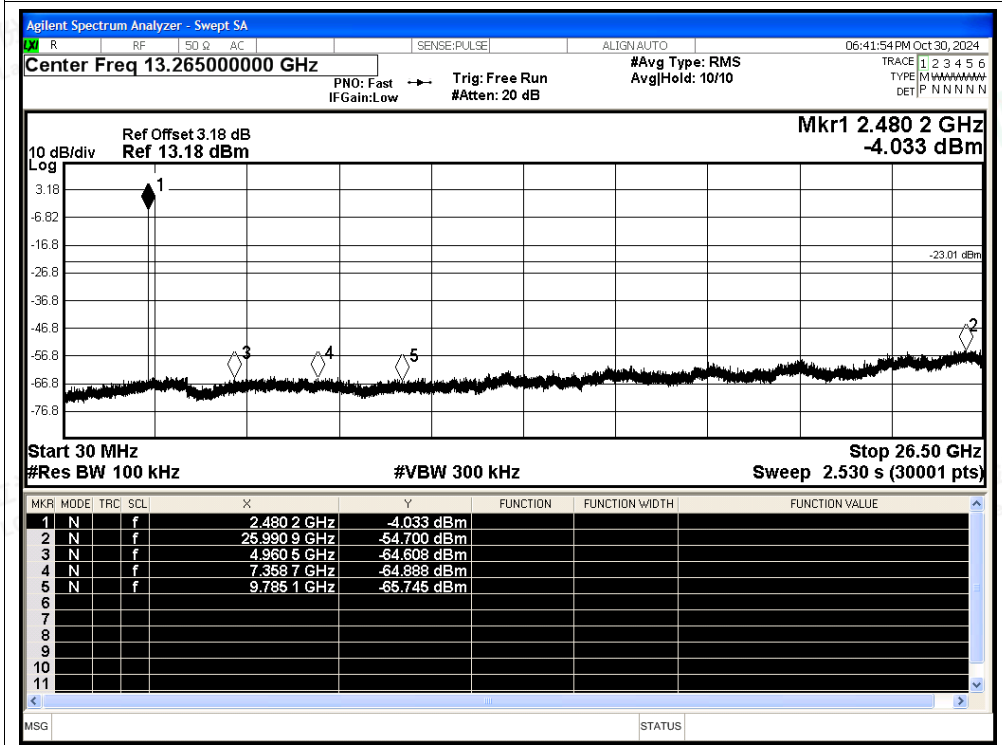




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

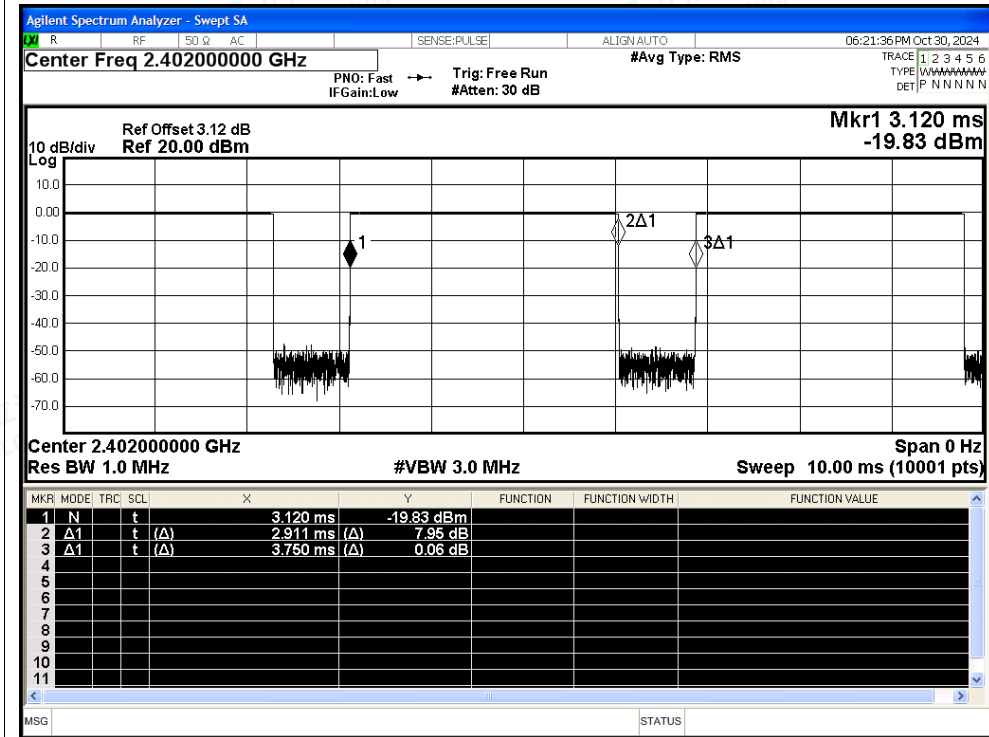
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.33	1.12	0.34
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



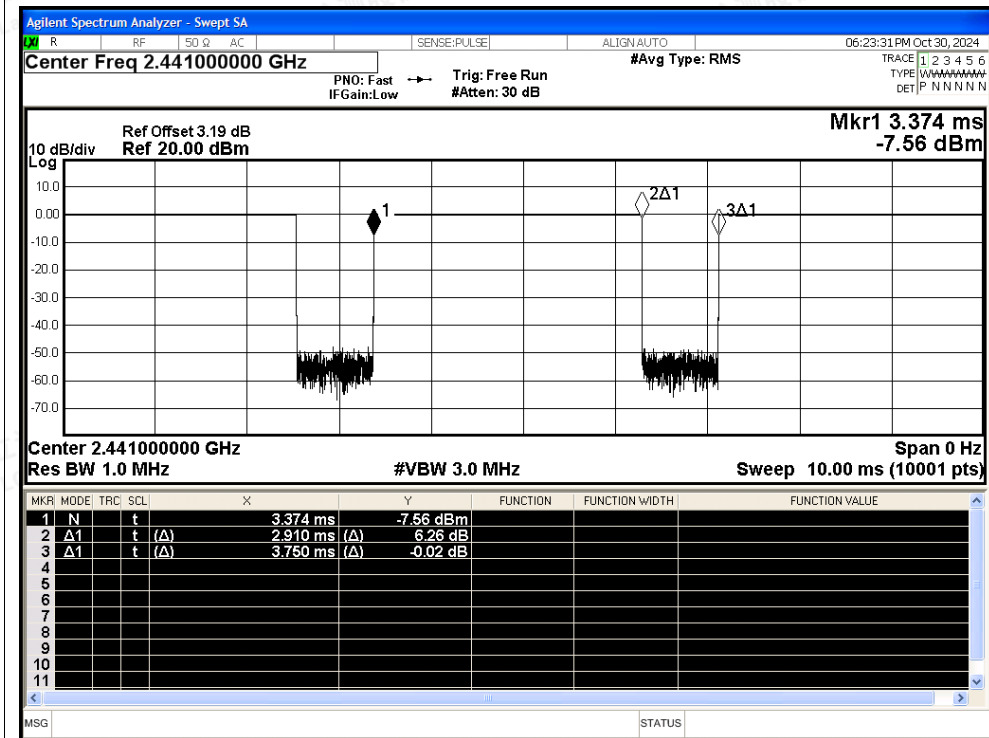


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

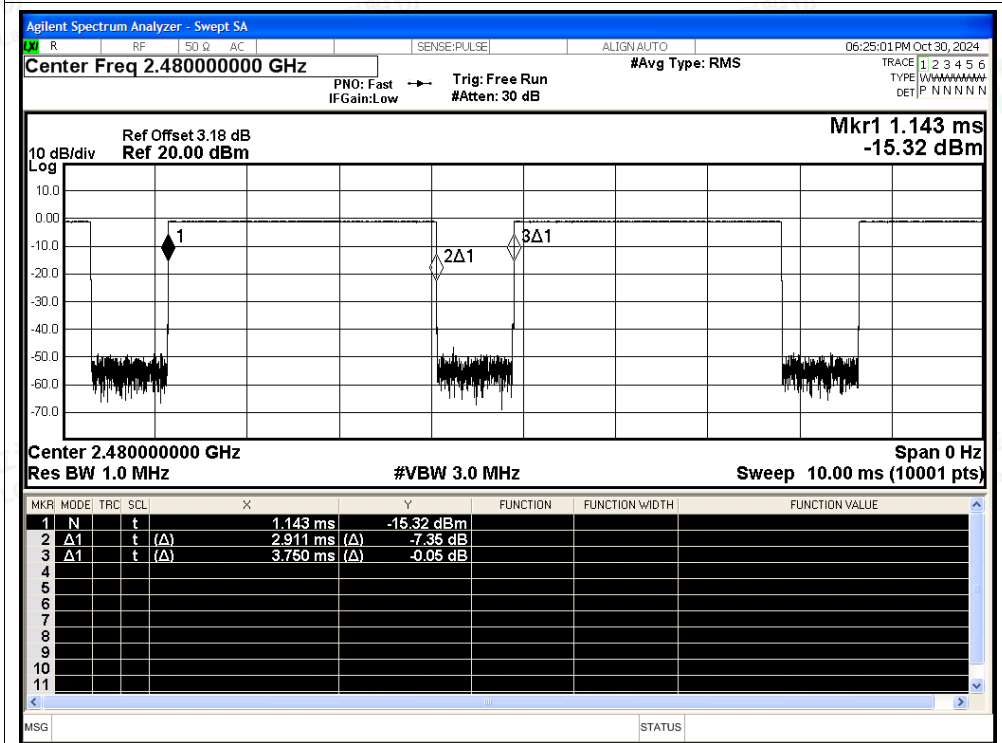


Duty Cycle NVNT 1-DH5 2441MHz Ant1

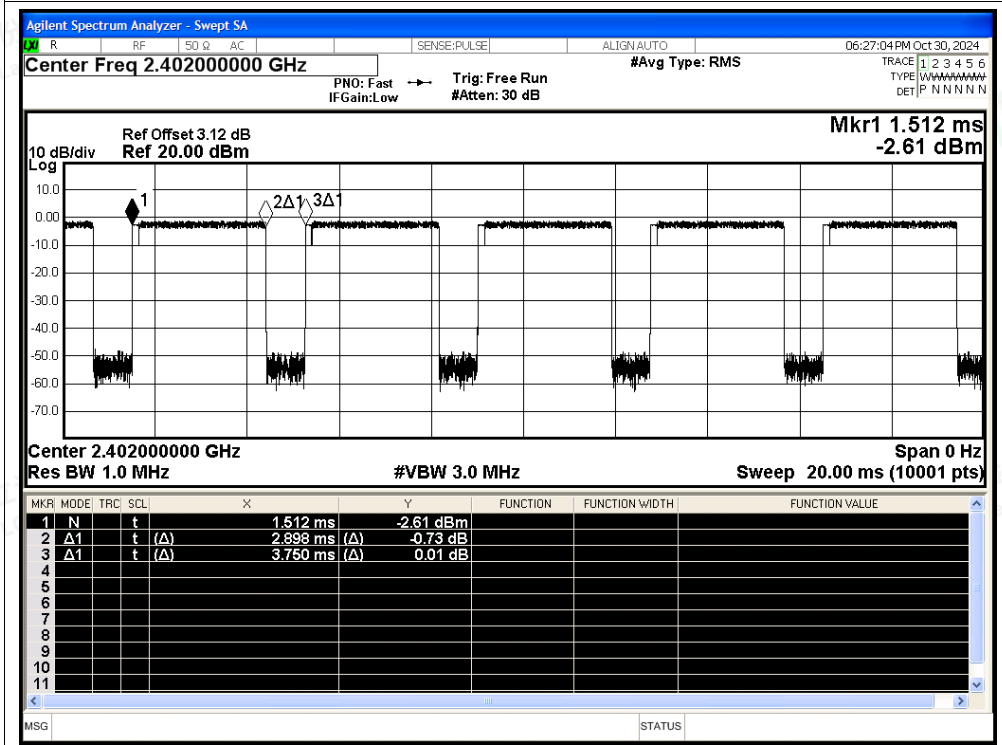




Duty Cycle NVNT 1-DH5 2480MHz Ant1

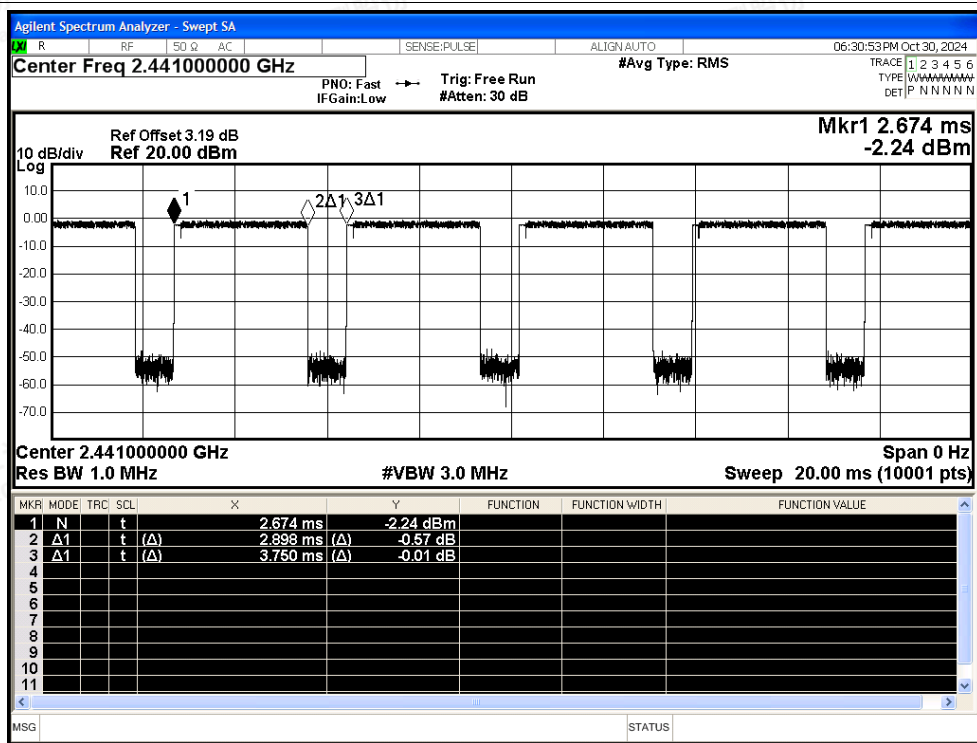


Duty Cycle NVNT 2-DH5 2402MHz Ant1

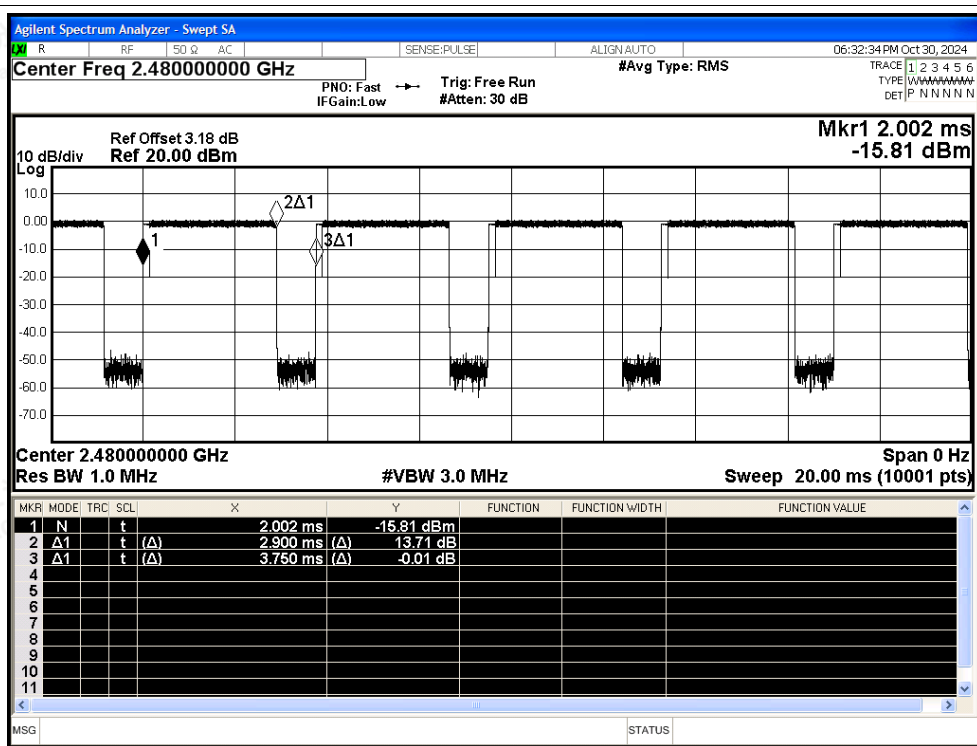




Duty Cycle NVNT 2-DH5 2441MHz Ant1

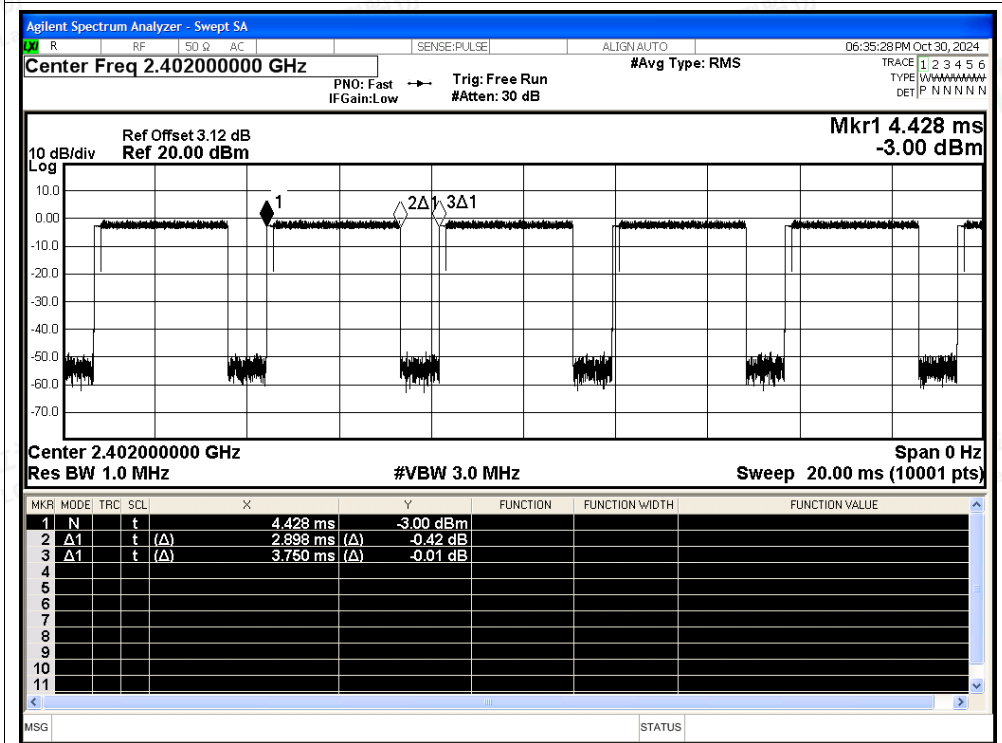


Duty Cycle NVNT 2-DH5 2480MHz Ant1

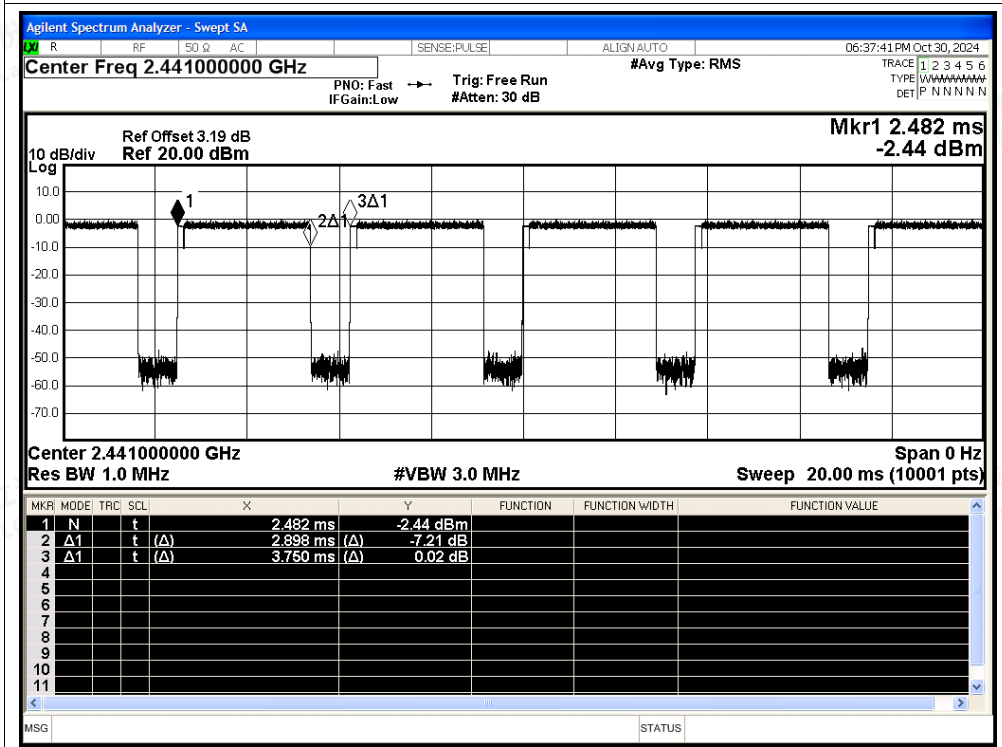


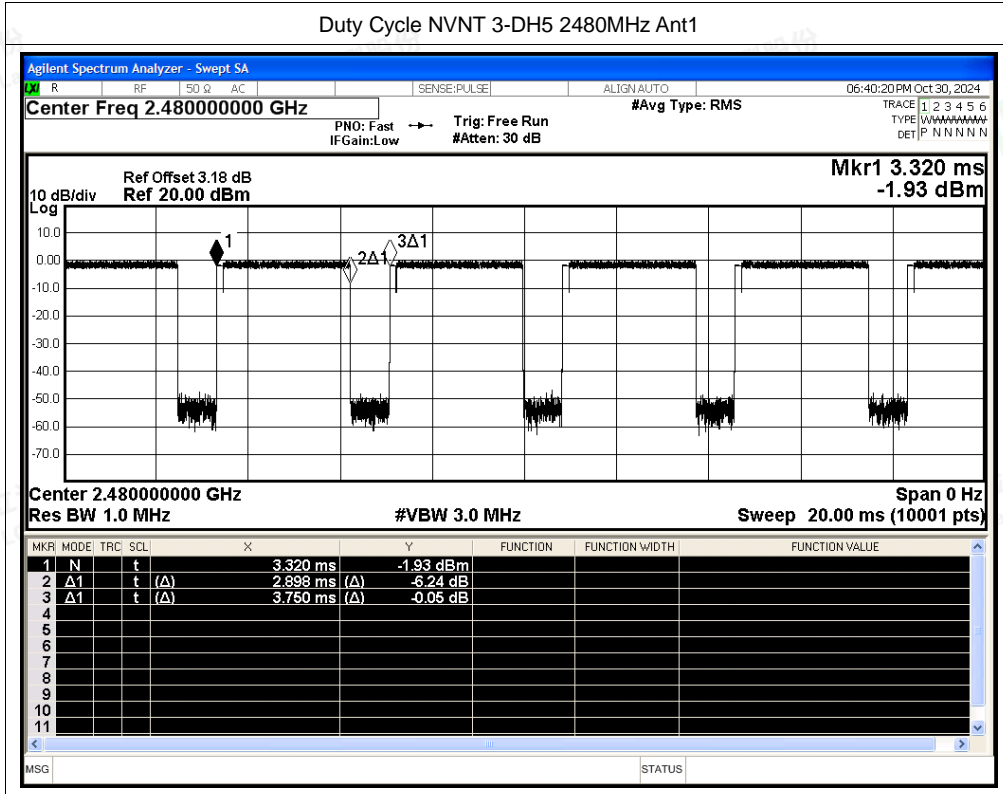


Duty Cycle NVNT 3-DH5 2402MHz Ant1



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	-49.66	2.07	-	47.67	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.44	2.07	1.1	40.99	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.496	-46.44	2.07	-	50.89	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2341.392	-56.55	2.07	1.1	41.88	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.75	2.07	-	48.58	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.43	2.07	1.1	41.00	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.77	2.07	-	47.56	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.93	2.07	1.1	41.50	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2490.592	-46.01	2.07	-	51.32	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2496.616	-55.98	2.07	1.1	42.45	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.54	2.07	-	47.79	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-56.4	2.07	1.1	42.03	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-48.39	2.07	-	48.94	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.69	2.07	1.12	40.76	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2351.376	-46.36	2.07	-	50.97	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2360.592	-56.69	2.07	1.12	41.76	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.93	2.07	-	47.40	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.08	2.07	1.12	41.37	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-47.9	2.07	-	49.43	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-56.61	2.07	1.12	41.84	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2491.6	-45.98	2.07	-	51.35	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2488.456	-55.94	2.07	1.12	42.51	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-47.01	2.07	-	50.32	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.35	2.07	1.12	41.10	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.09	2.07	-	48.24	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.71	2.07	1.12	40.74	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2311.344	-46.41	2.07	-	50.92	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2386.032	-56.42	2.07	1.12	42.03	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.71	2.07	-	46.62	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.55	2.07	1.12	40.90	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.27	2.07	-	48.06	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.9	2.07	1.12	42.55	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2485.768	-45.78	2.07	-	51.55	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.9	2.07	1.12	42.55	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.25	2.07	-	49.08	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.2	2.07	1.12	41.25	Average	54	Pass



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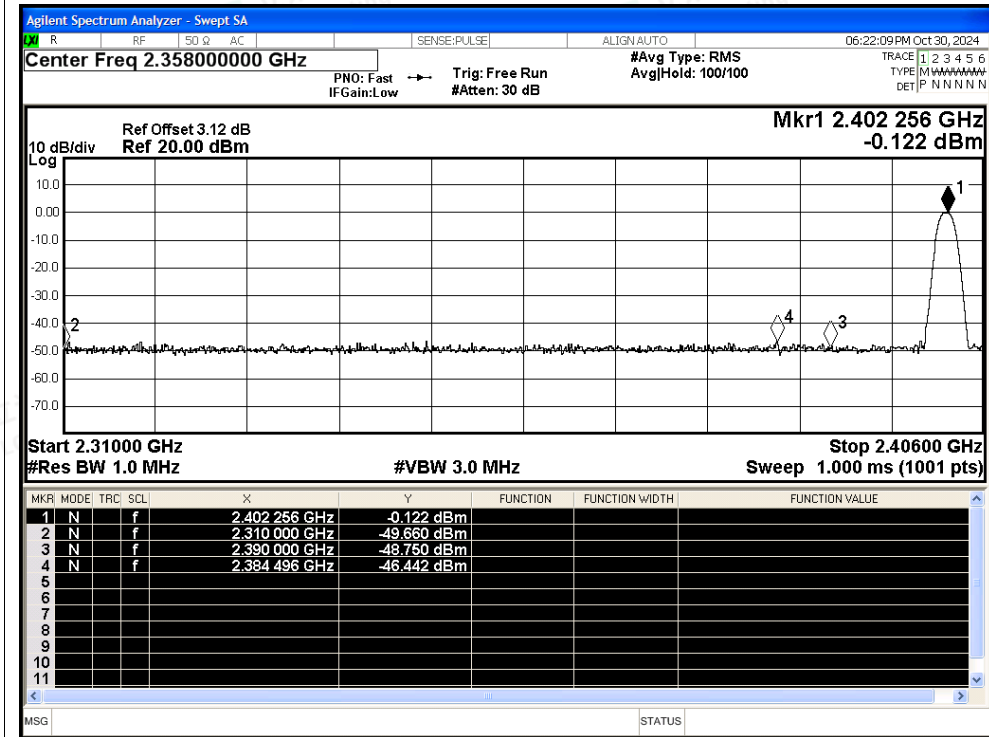
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

