



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth speaker light

Test Model: BC-YX-08W-001

Environmental Conditions

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



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.1 -20dB Bandwidth

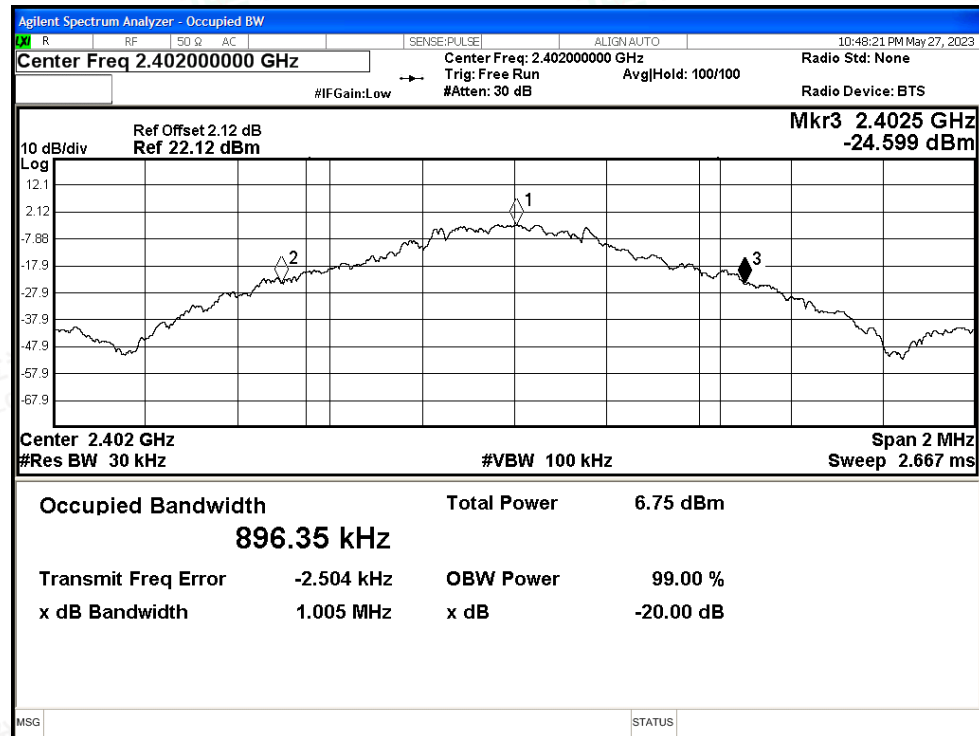
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.005	Pass
NVNT	1-DH5	2441	Ant1	0.963	Pass
NVNT	1-DH5	2480	Ant1	1.018	Pass
NVNT	2-DH5	2402	Ant1	1.28	Pass
NVNT	2-DH5	2441	Ant1	1.282	Pass
NVNT	2-DH5	2480	Ant1	1.313	Pass
NVNT	3-DH5	2402	Ant1	1.295	Pass
NVNT	3-DH5	2441	Ant1	1.3	Pass
NVNT	3-DH5	2480	Ant1	1.287	Pass



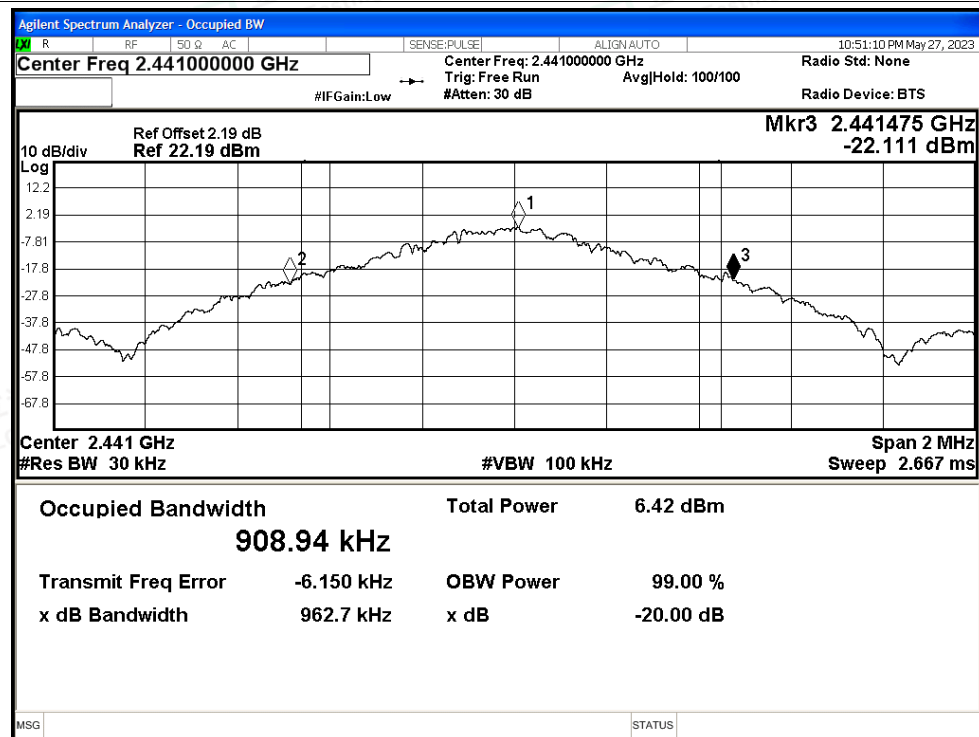


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

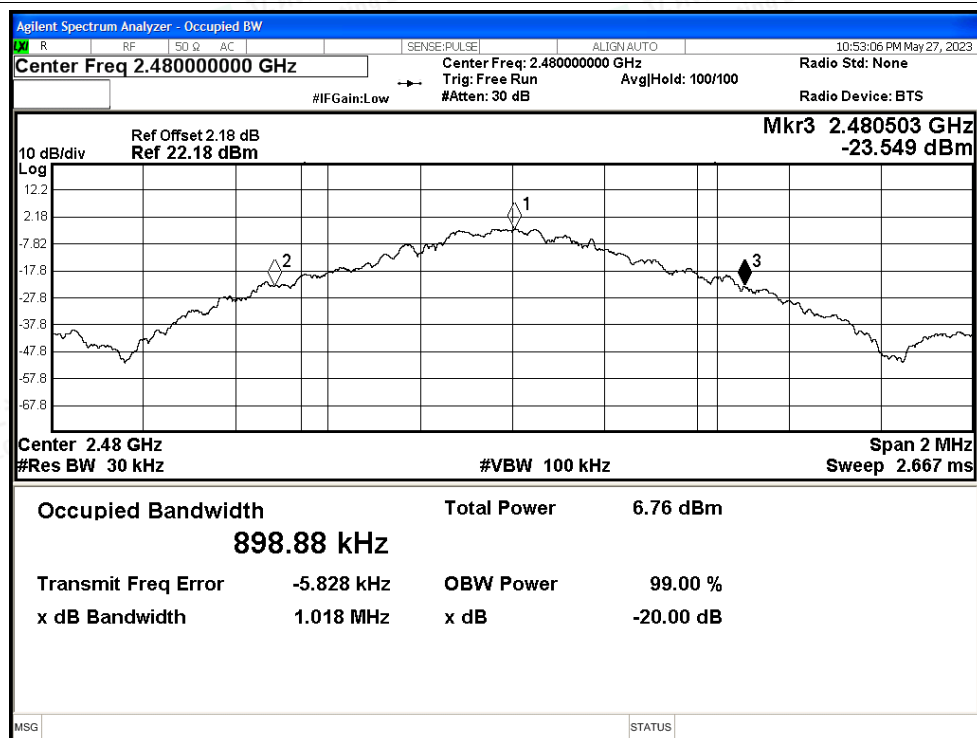


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

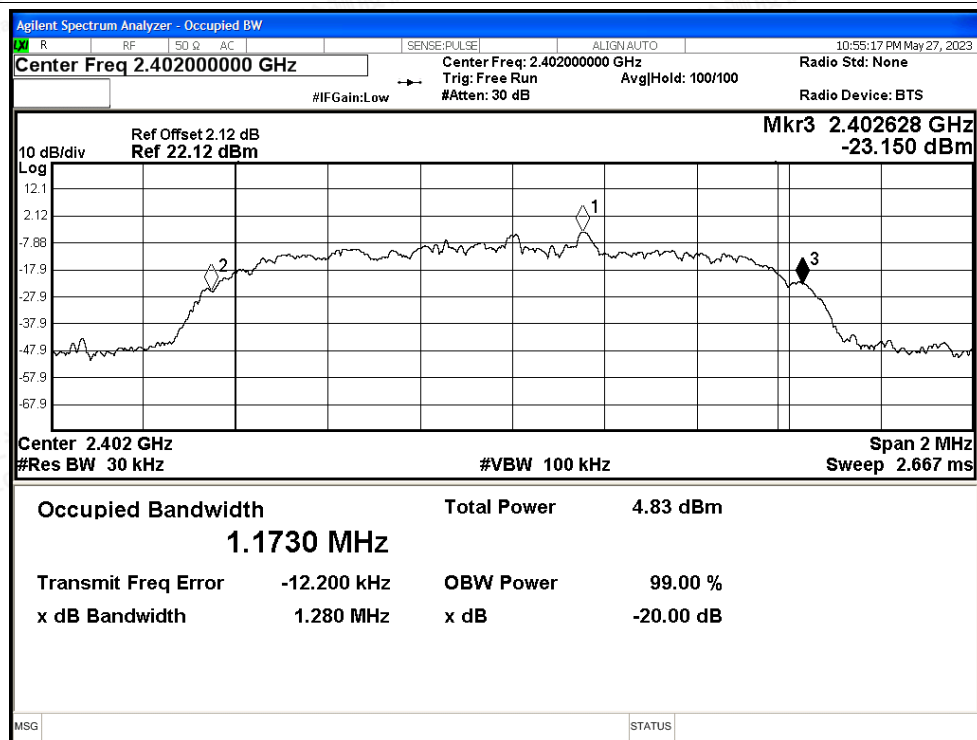


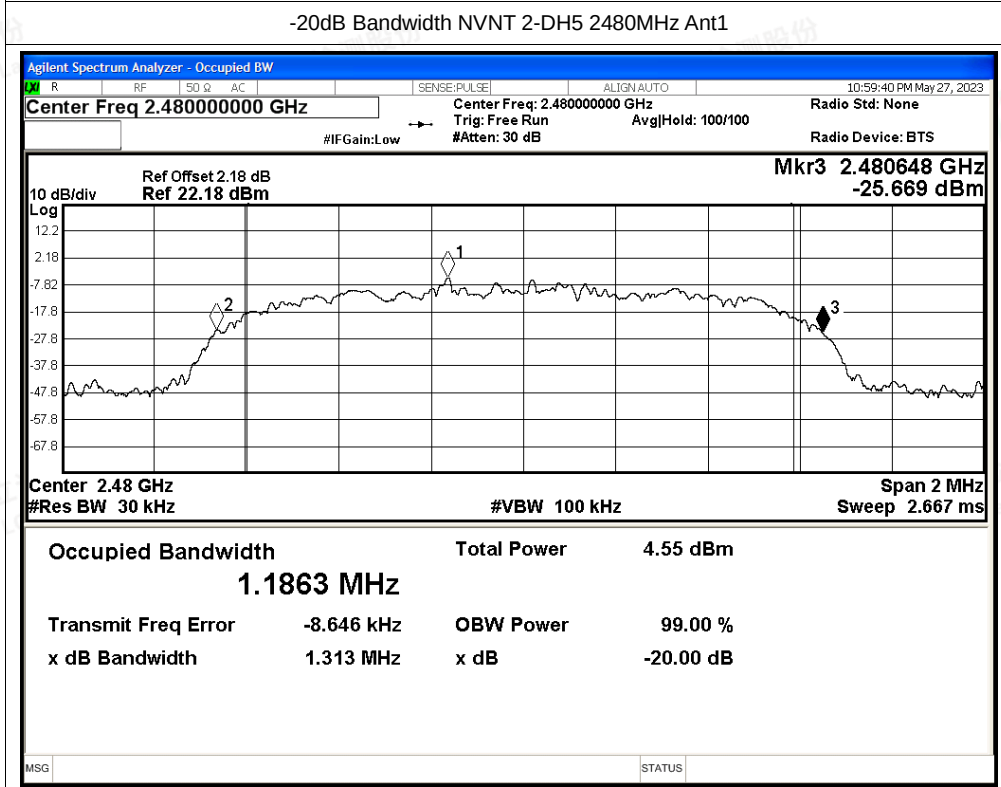
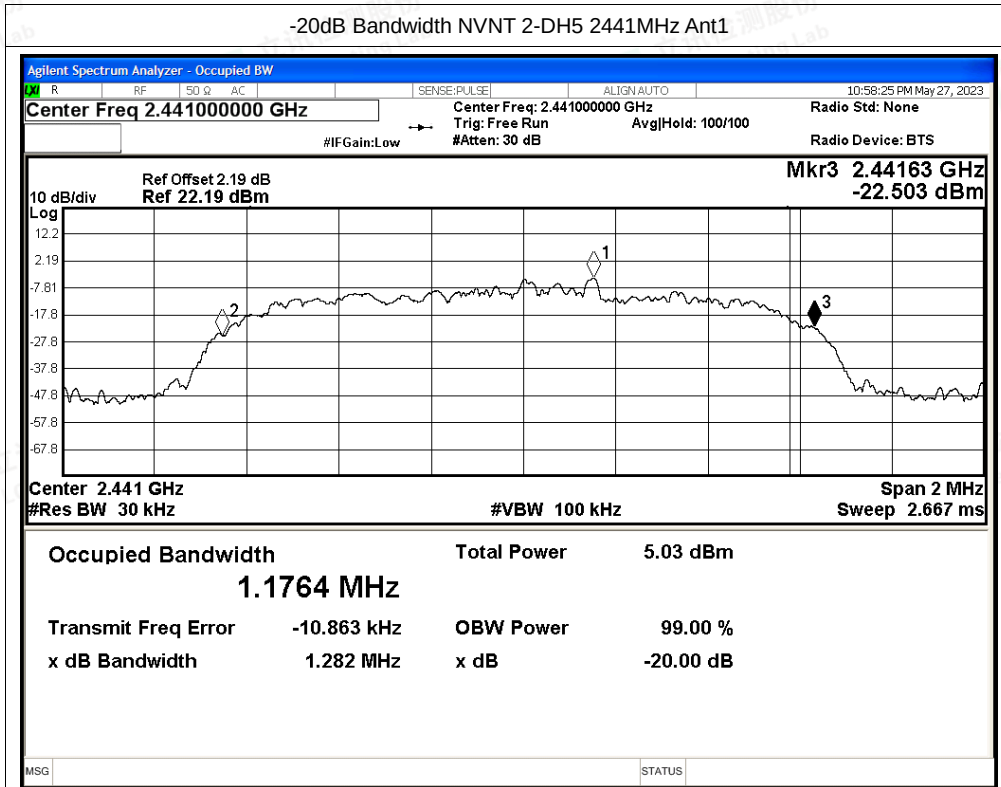


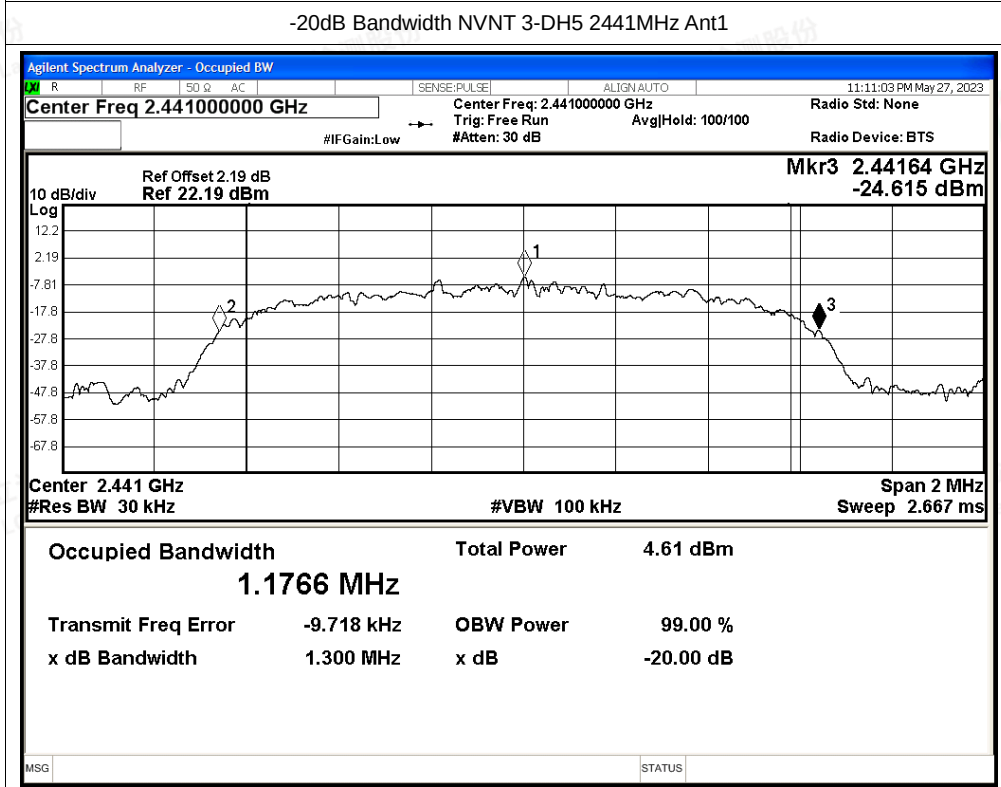
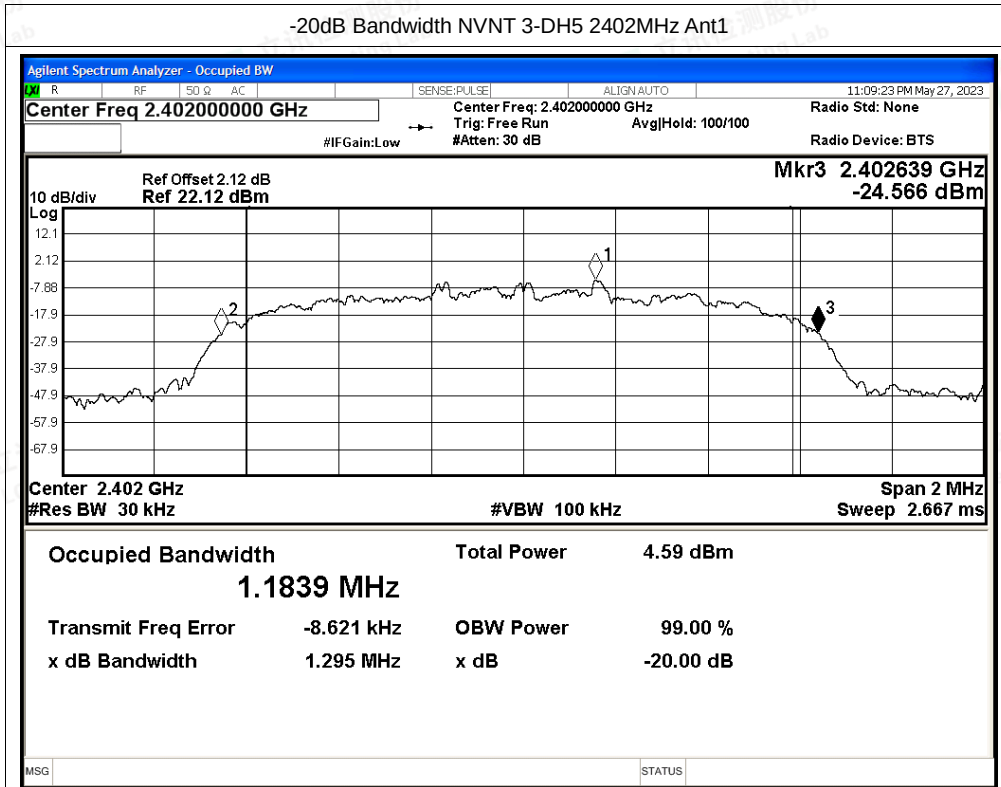
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

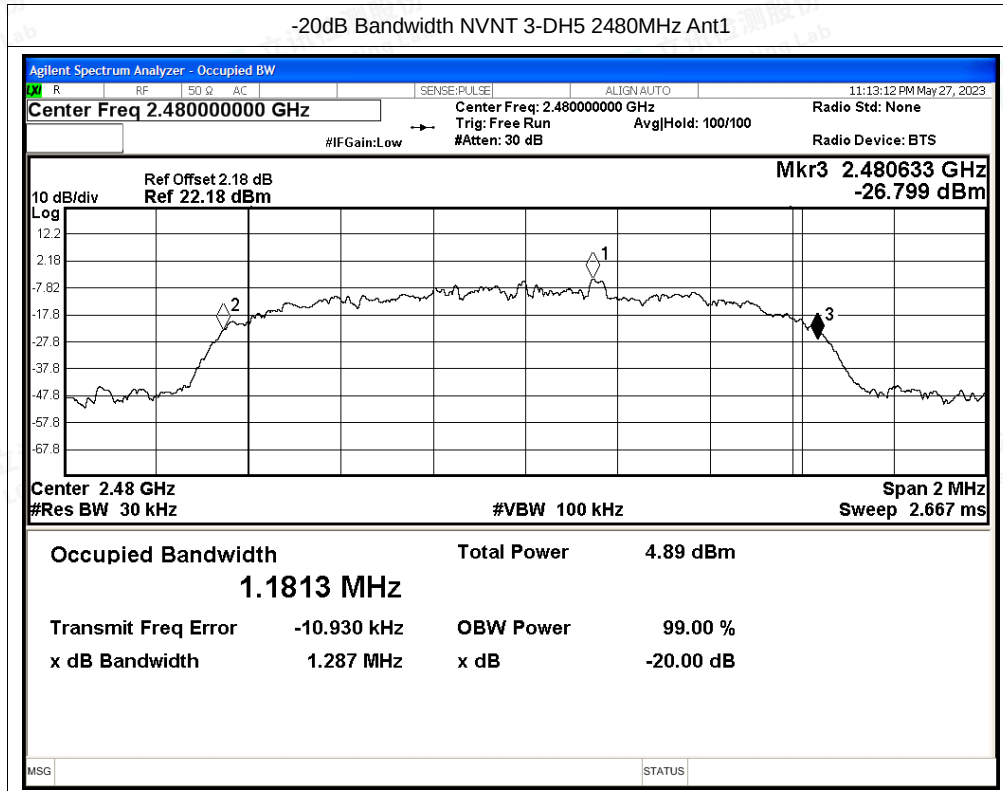


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1











A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.29	21	Pass
NVNT	1-DH5	2441	Ant1	0.56	21	Pass
NVNT	1-DH5	2480	Ant1	0.62	21	Pass
NVNT	2-DH5	2402	Ant1	0.06	21	Pass
NVNT	2-DH5	2441	Ant1	0.32	21	Pass
NVNT	2-DH5	2480	Ant1	0.37	21	Pass
NVNT	3-DH5	2402	Ant1	0.05	21	Pass
NVNT	3-DH5	2441	Ant1	0.36	21	Pass
NVNT	3-DH5	2480	Ant1	0.39	21	Pass

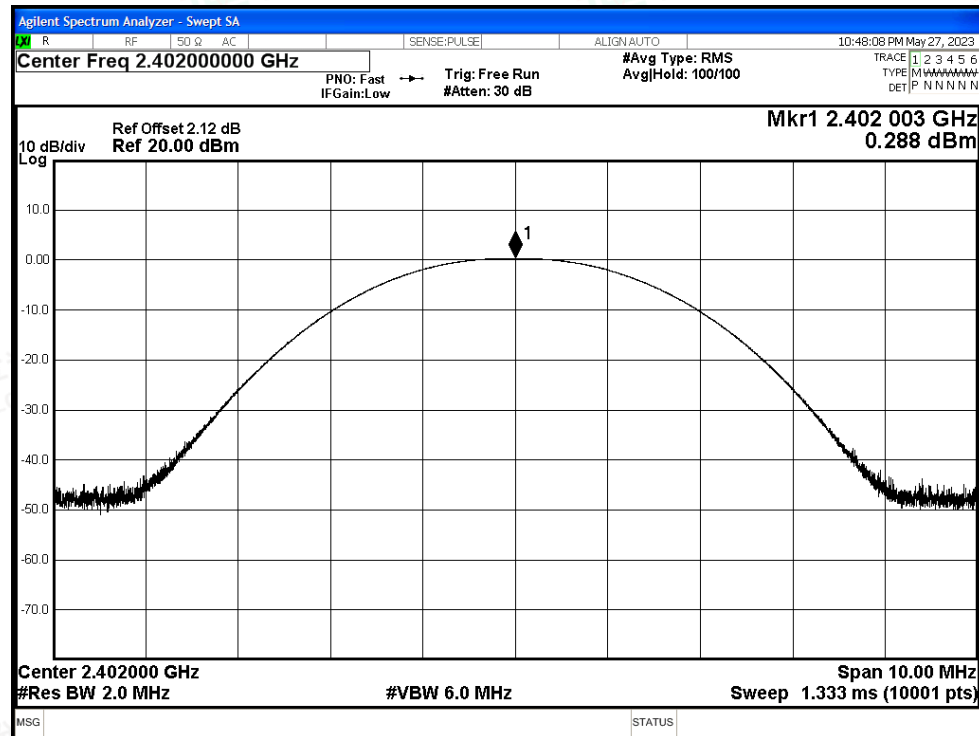


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

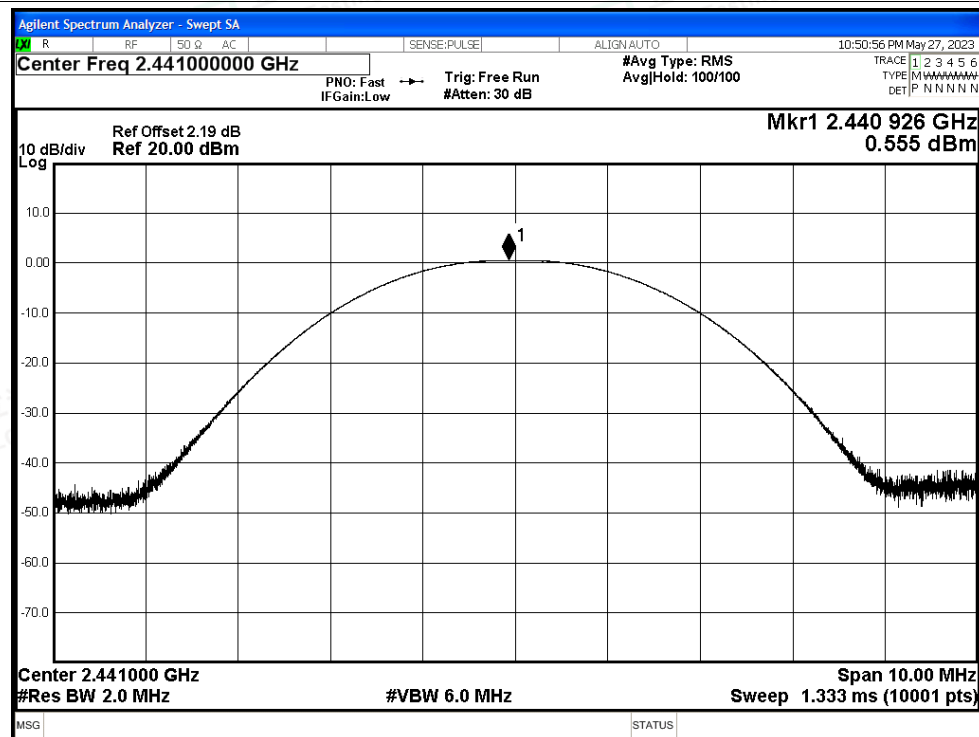


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

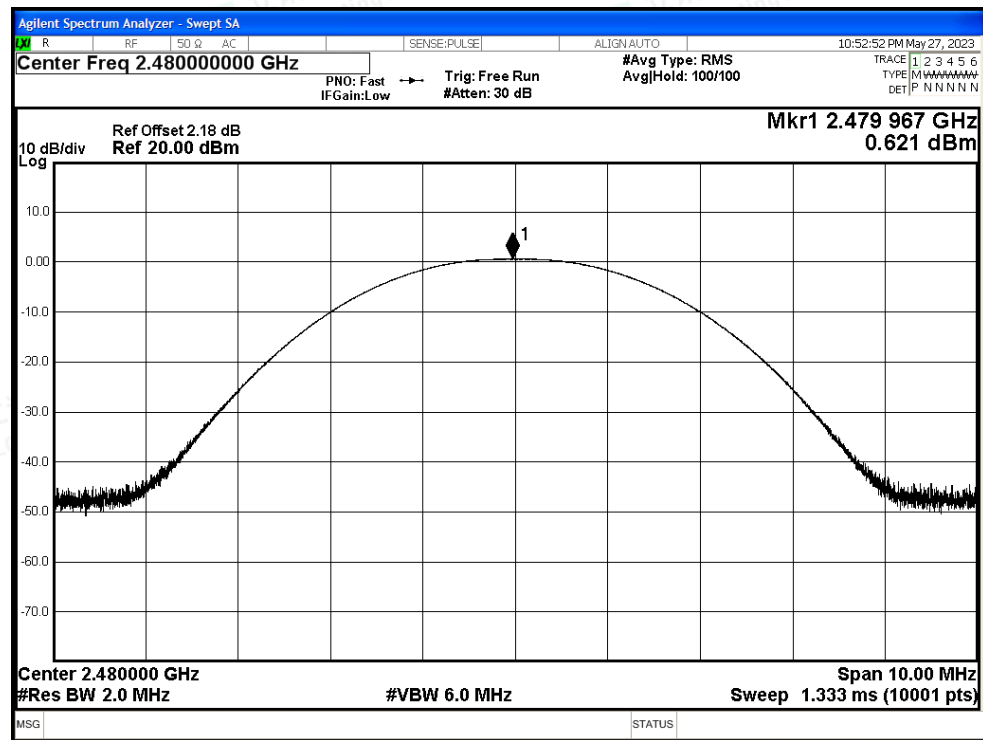


Power NVNT 1-DH5 2441MHz Ant1

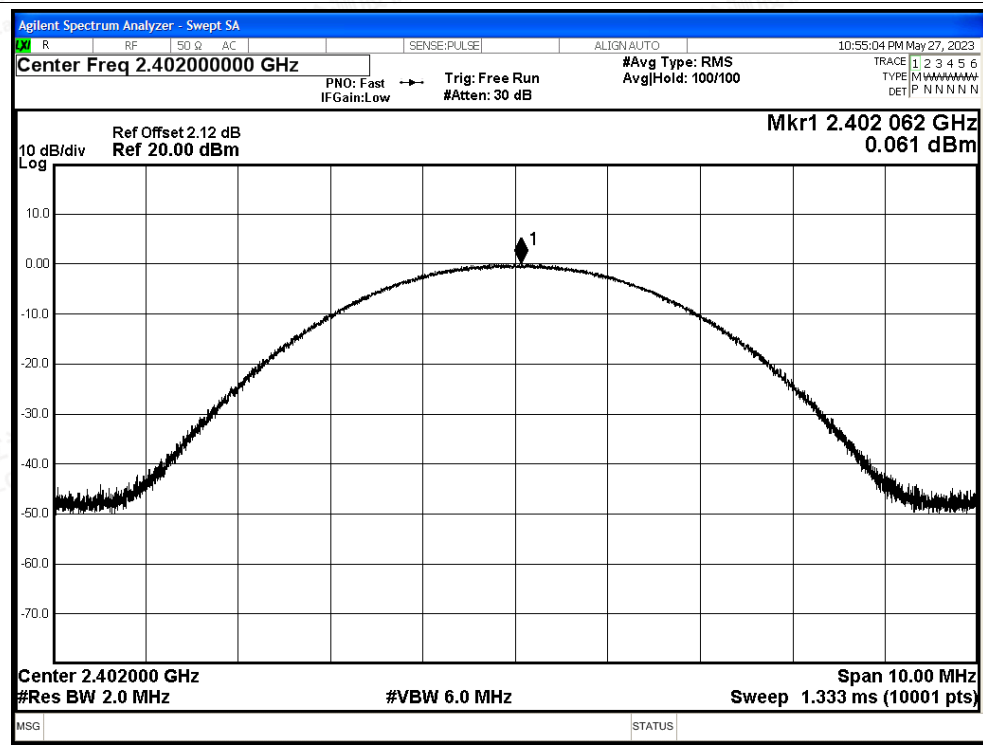




Power NVNT 1-DH5 2480MHz Ant1

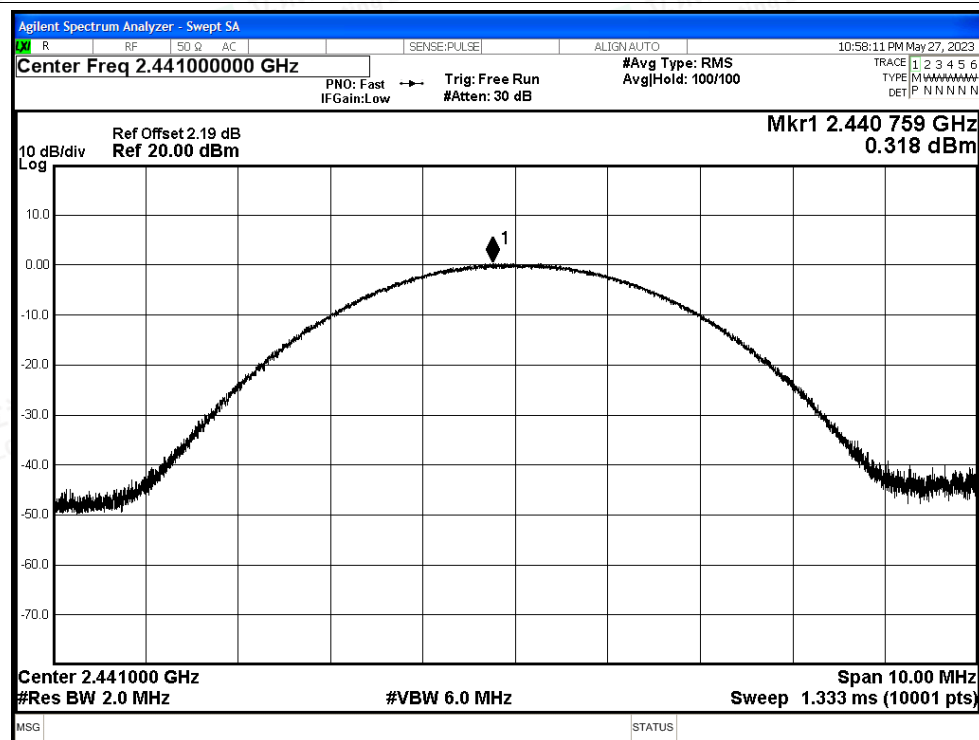


Power NVNT 2-DH5 2402MHz Ant1

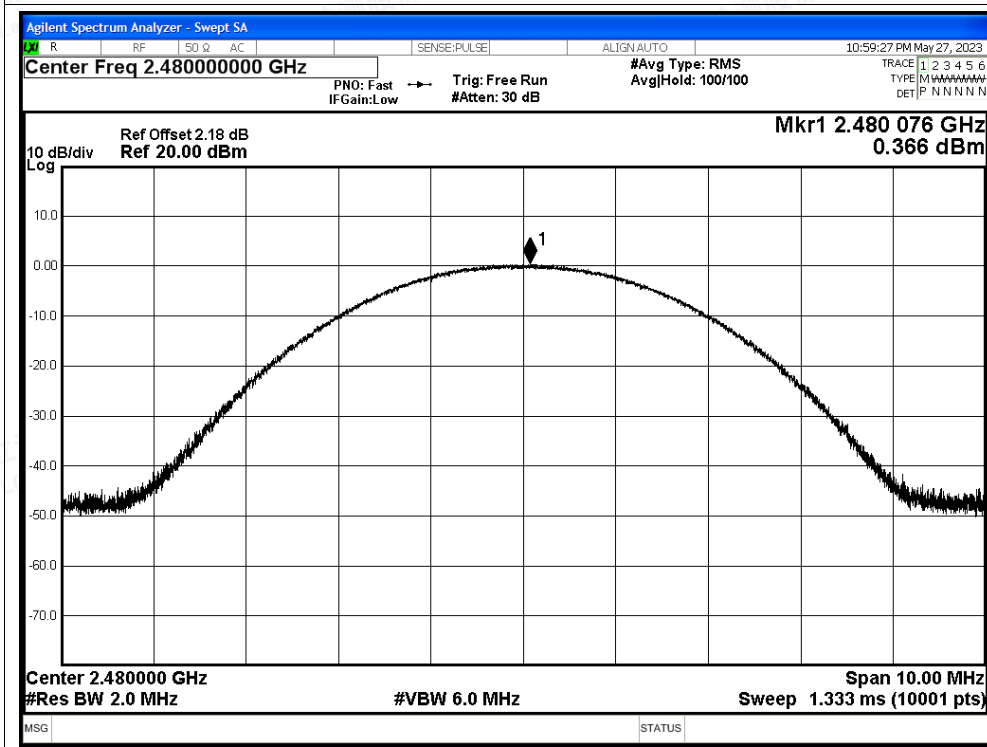




Power NVNT 2-DH5 2441MHz Ant1

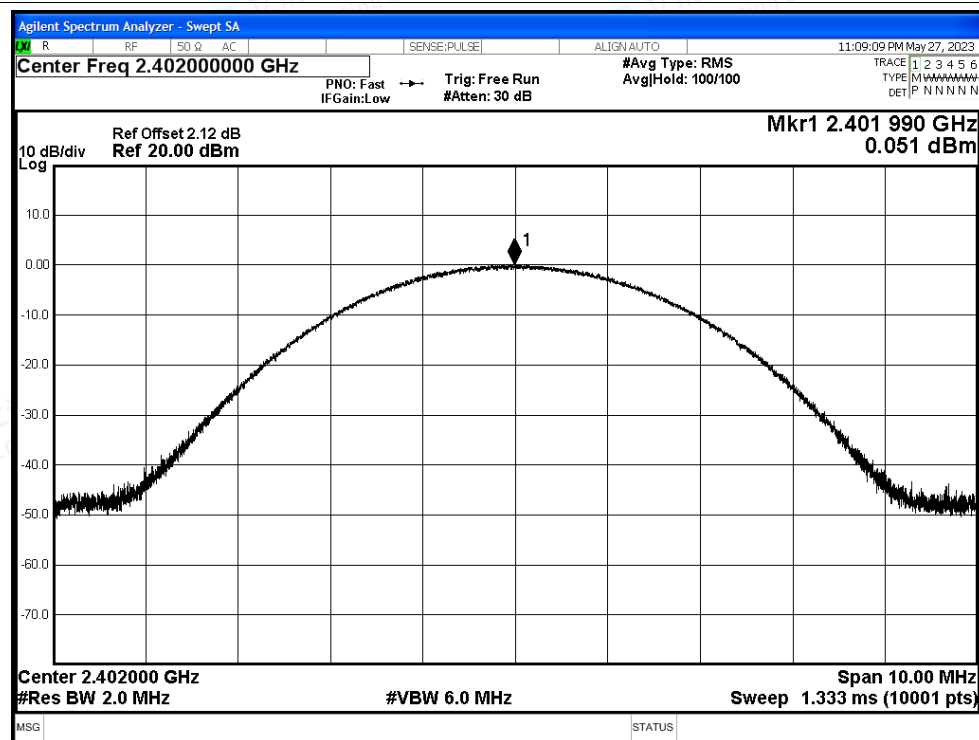


Power NVNT 2-DH5 2480MHz Ant1

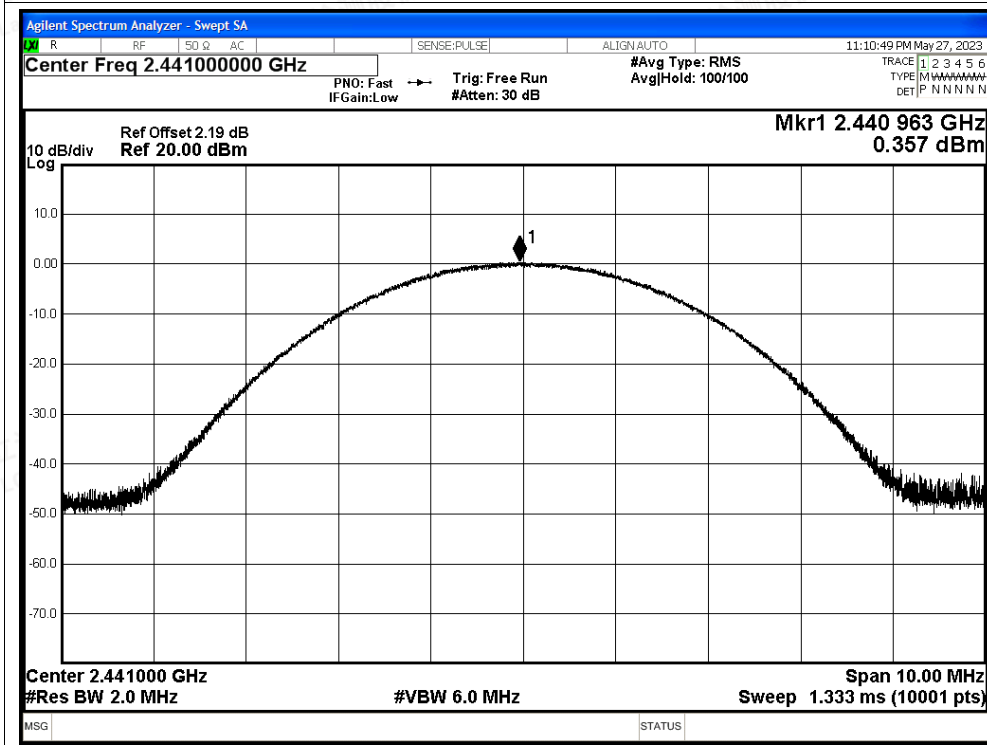


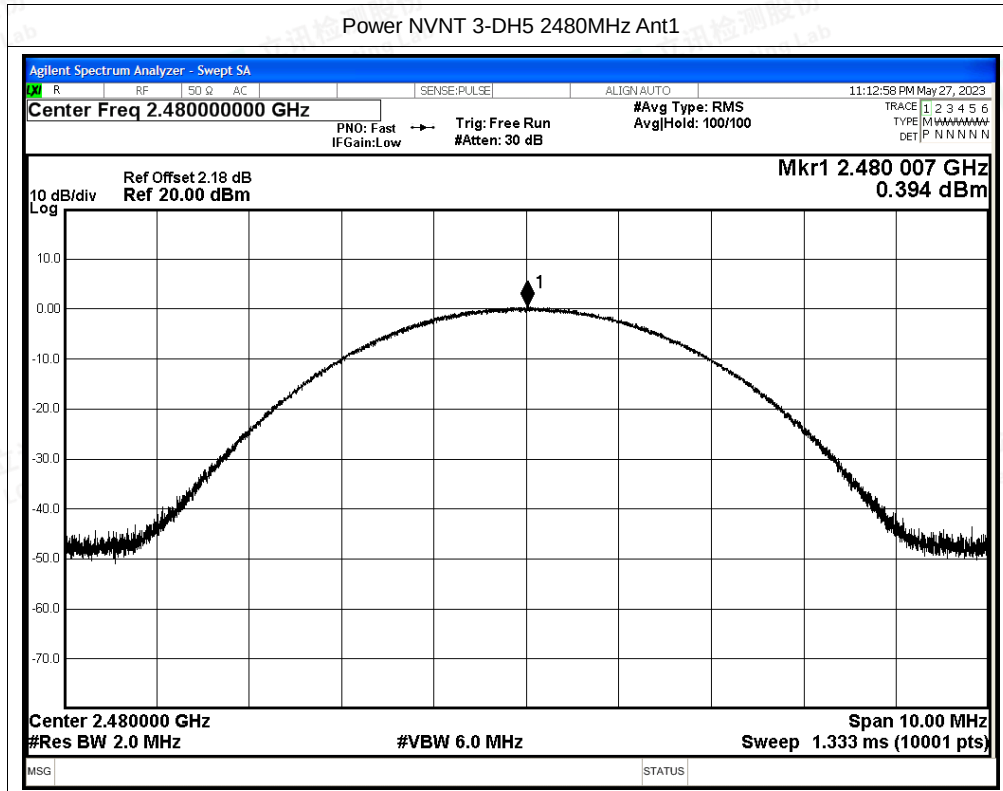


Power NVNT 3-DH5 2402MHz Ant1



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	2402.148	2402.964	0.816	0.679	Pass
NVNT	2-DH5	Ant1	2402.016	2403.006	0.99	0.875	Pass
NVNT	3-DH5	Ant1	2402.15	2403.15	1	0.867	Pass

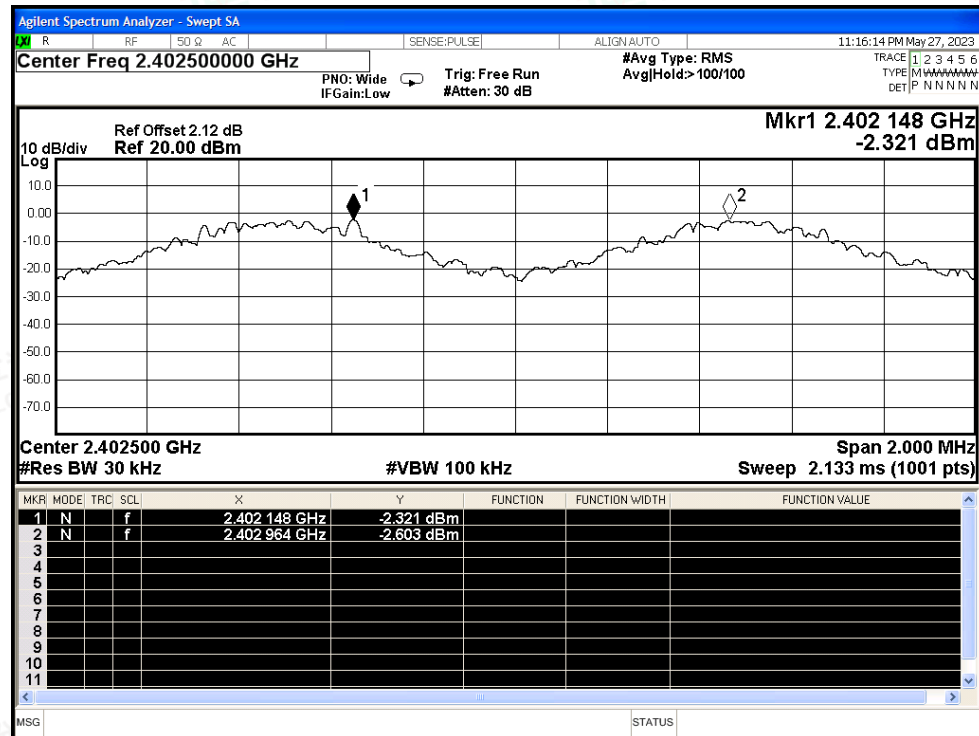


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

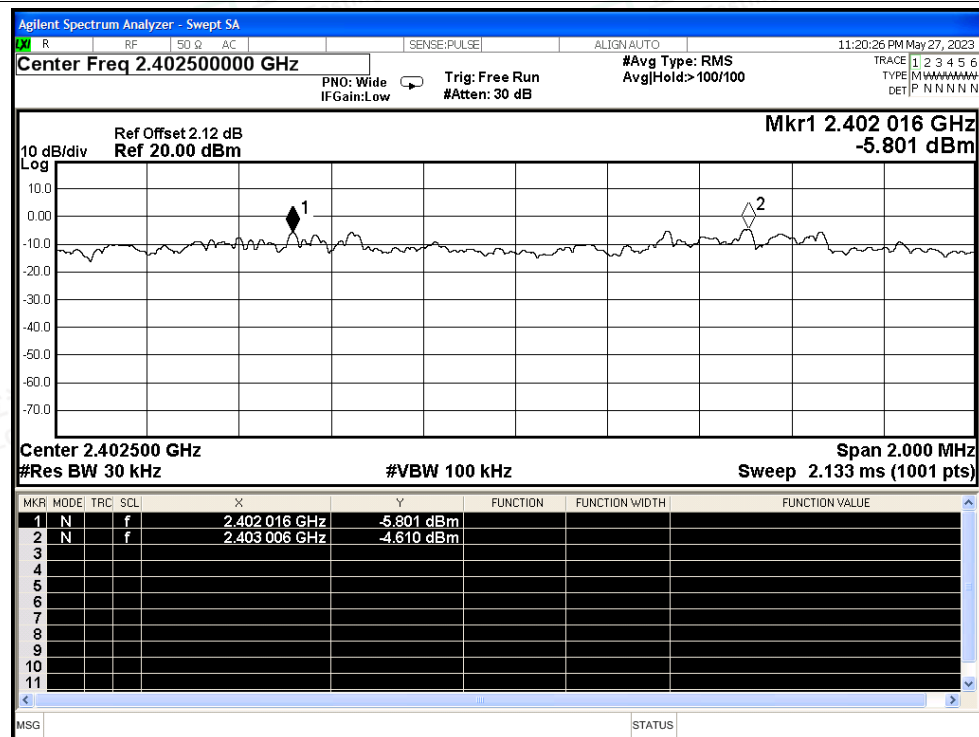


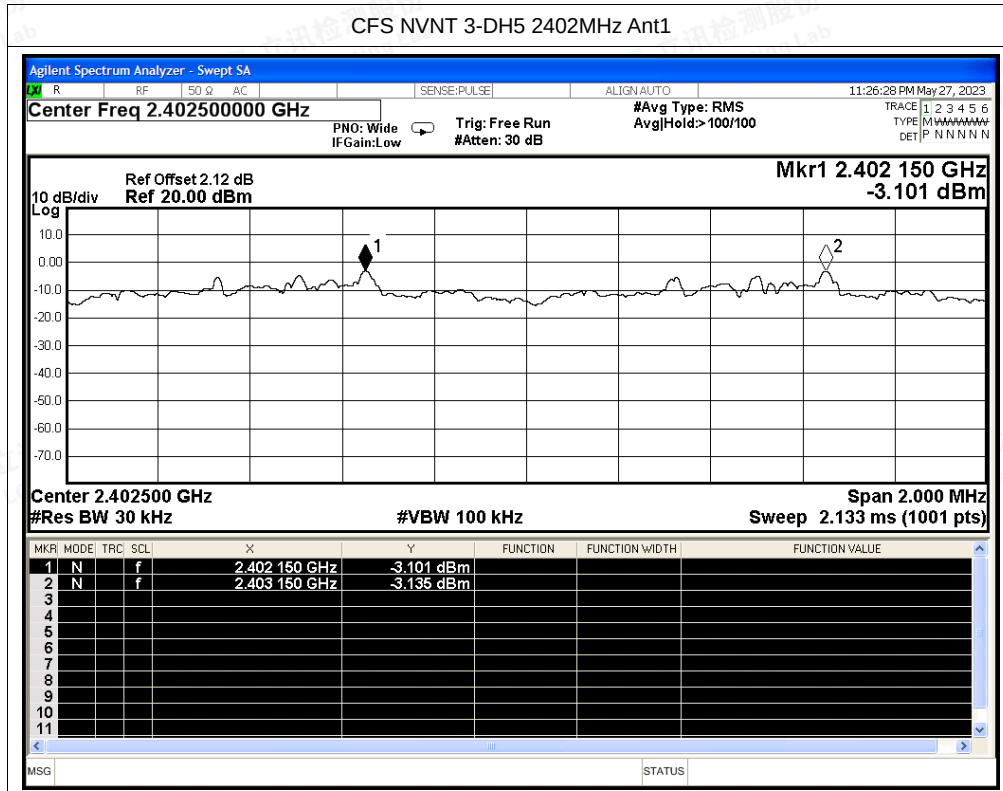
Test Graphs

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	2.882	291.082	101	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	302.925	105	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	308.802	107	31600	400	Pass

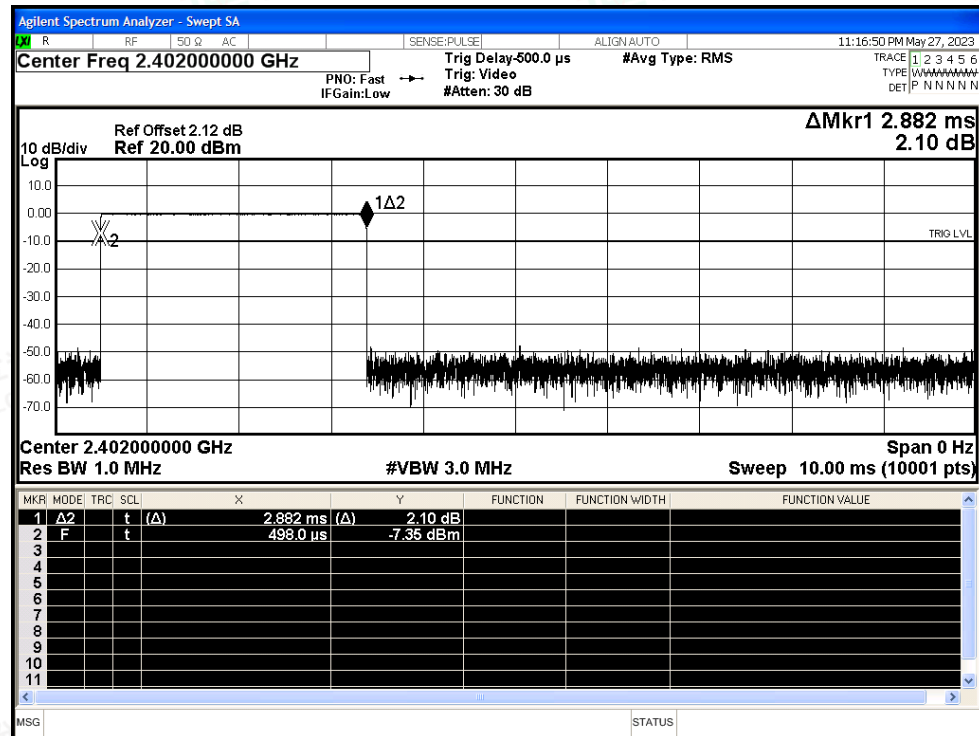


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,
518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

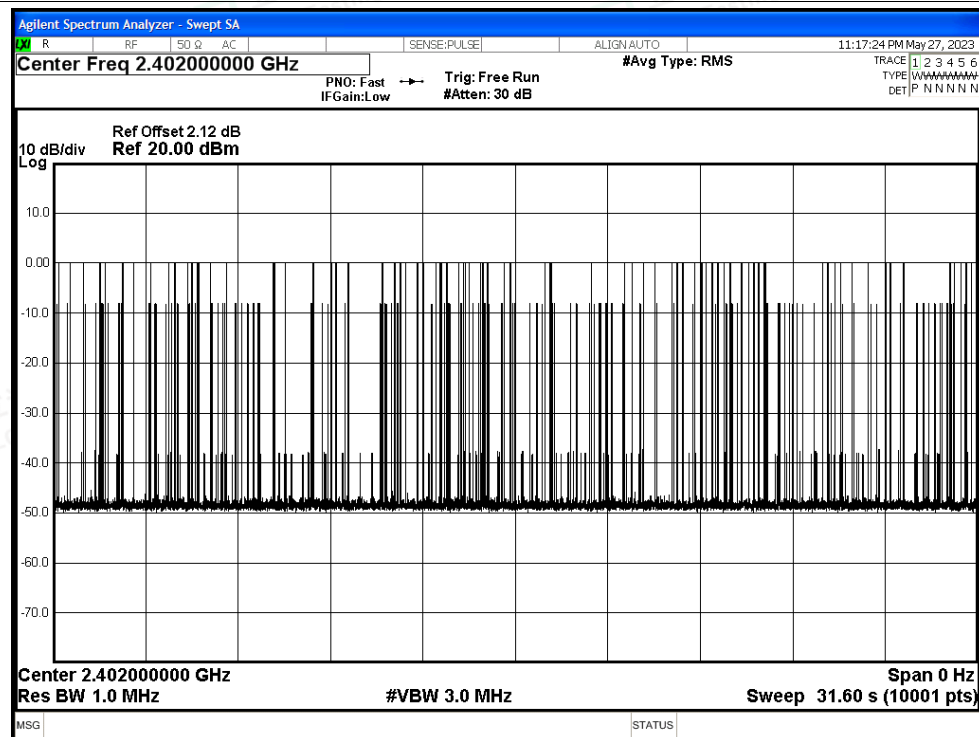


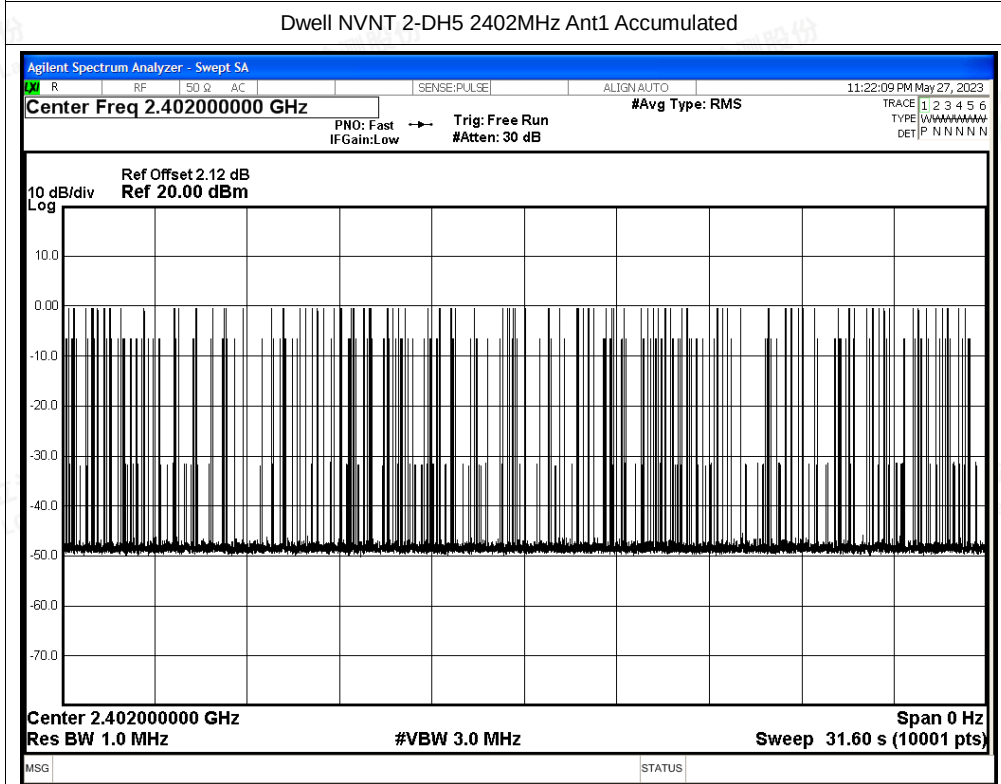
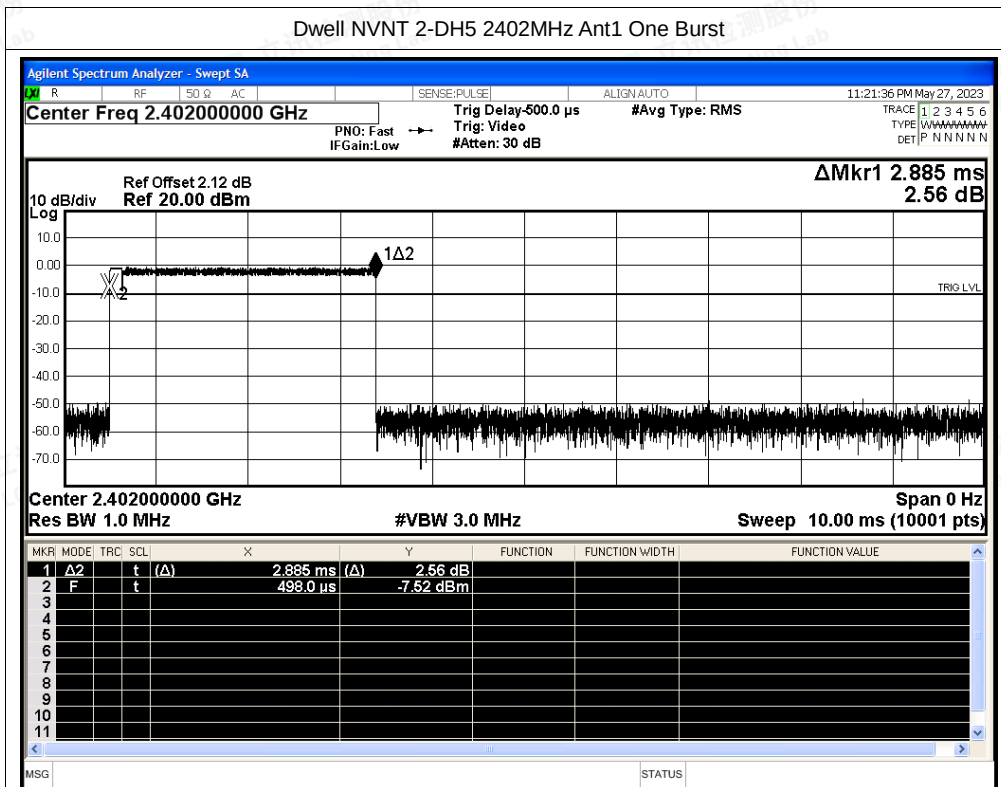
Test Graphs

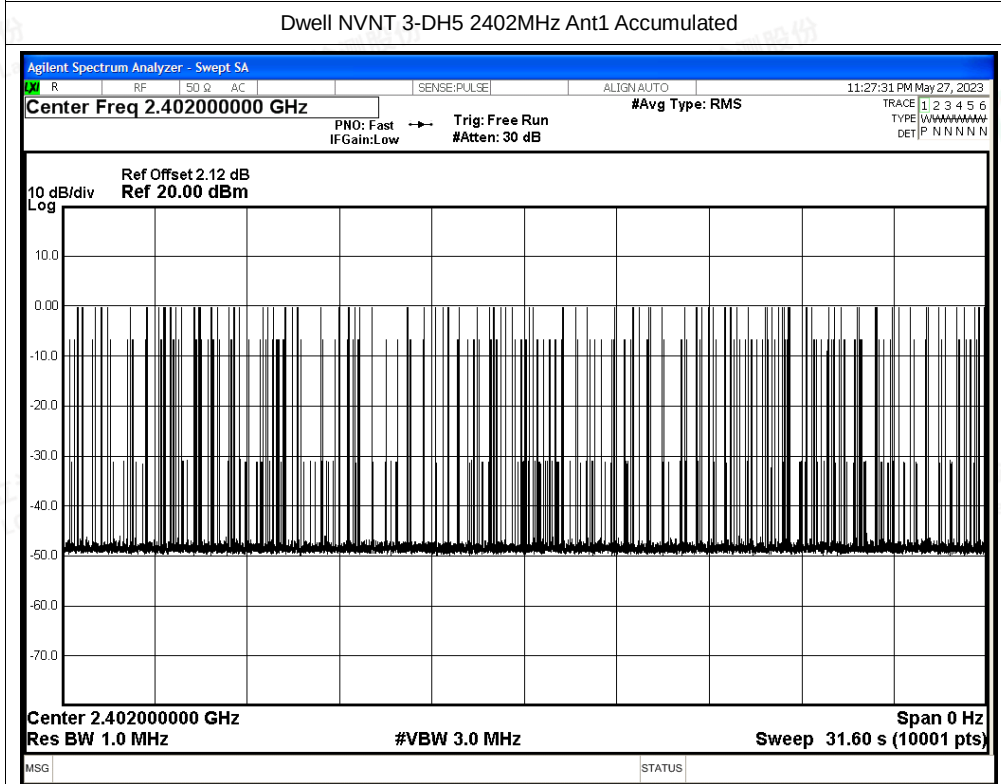
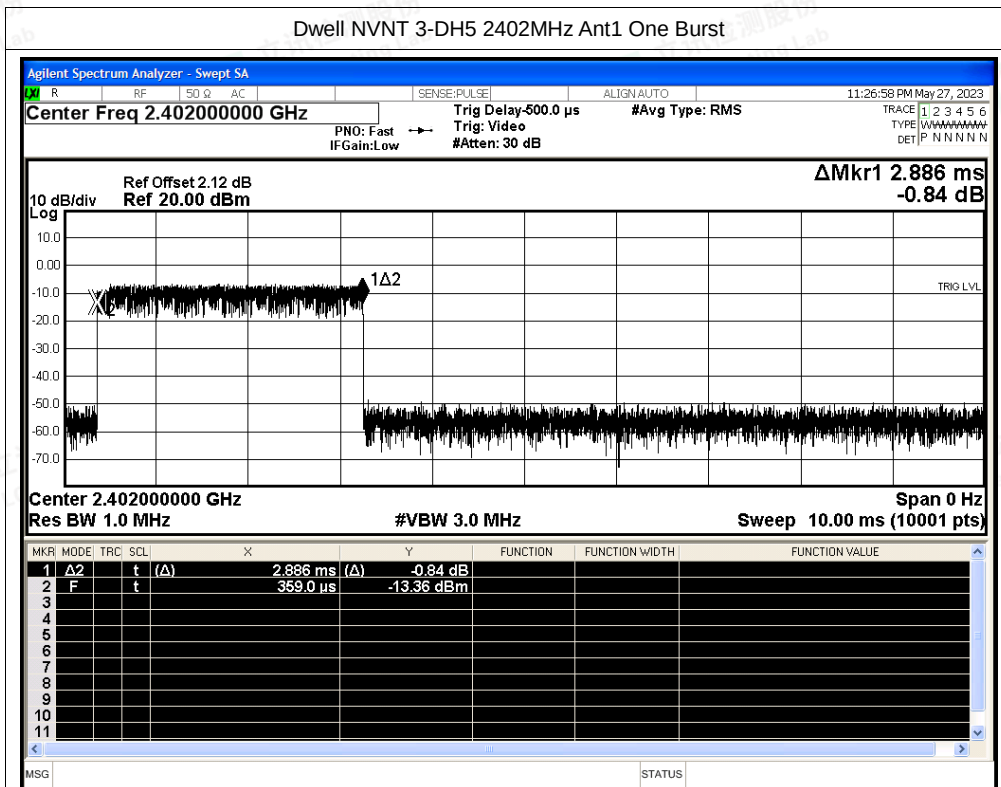
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-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

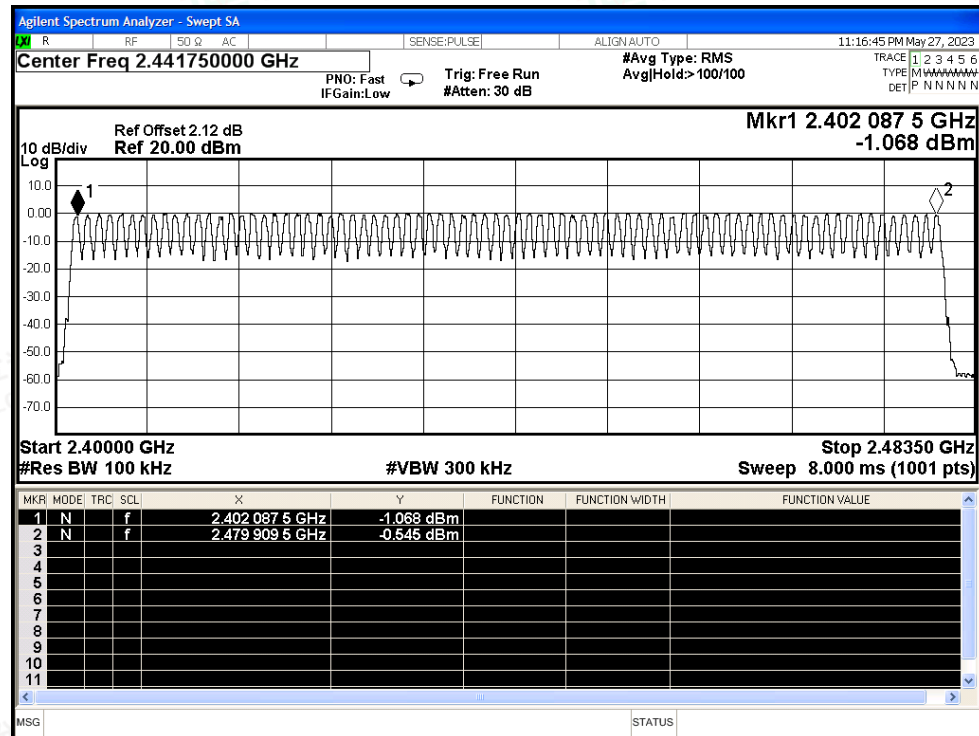


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

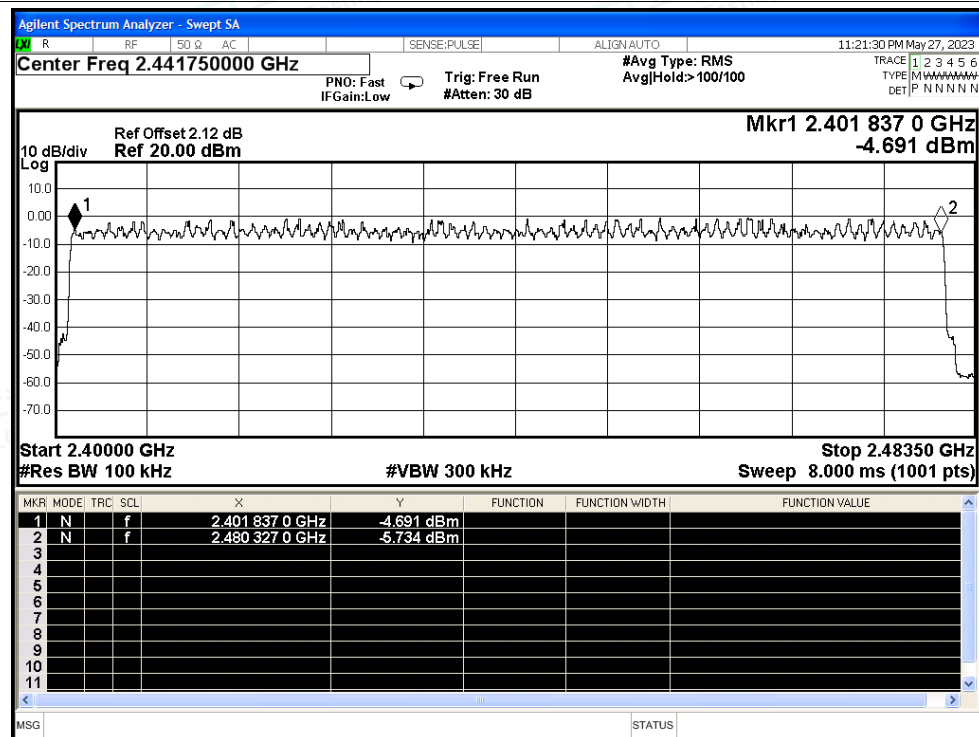


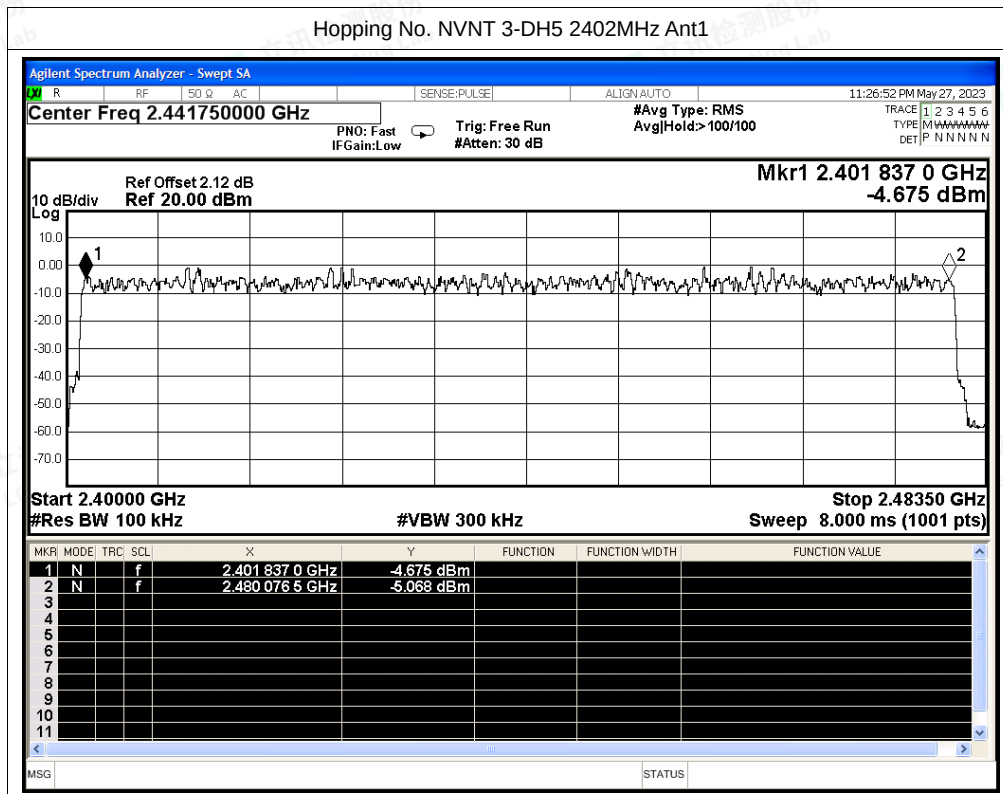
Test Graphs

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	-57.02	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.57	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.29	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.06	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.41	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.53	-20	Pass

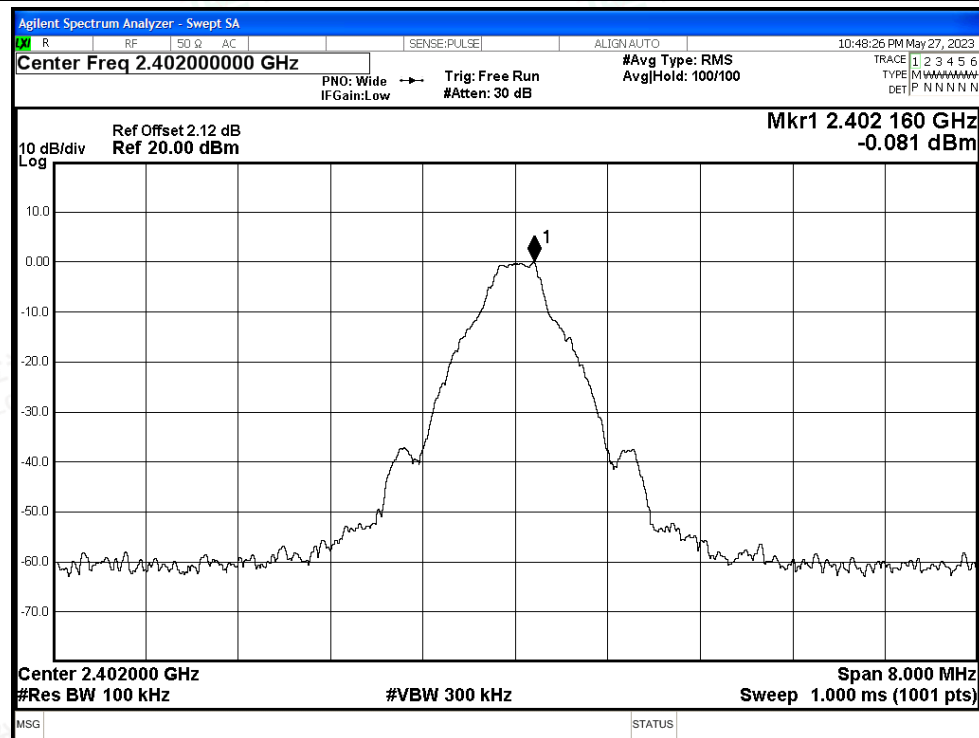


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

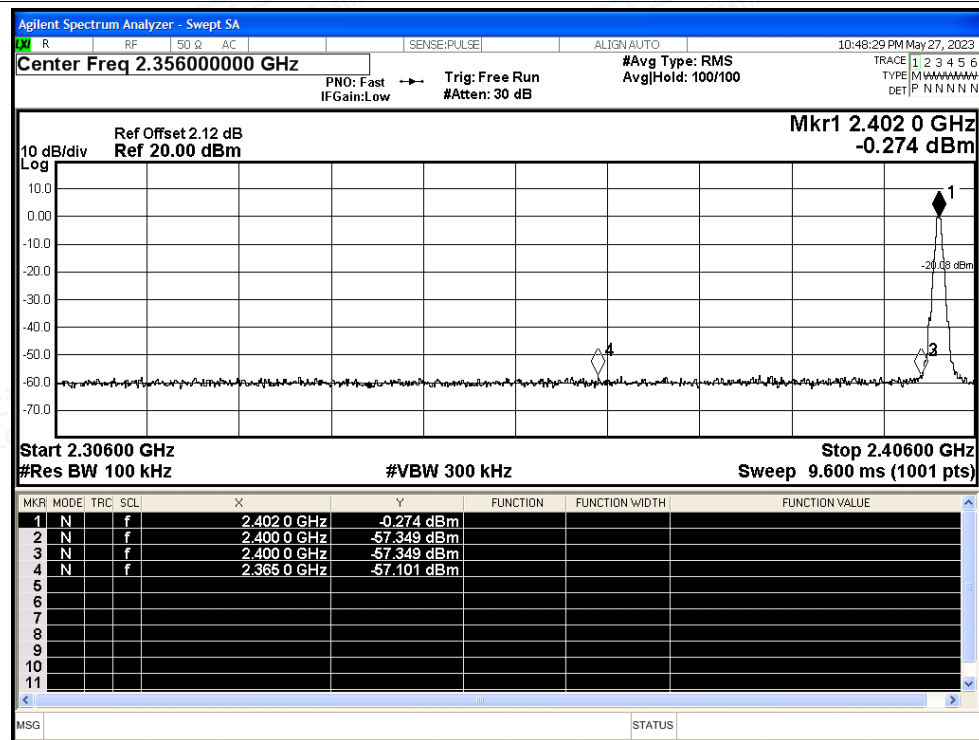


Test Graphs

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

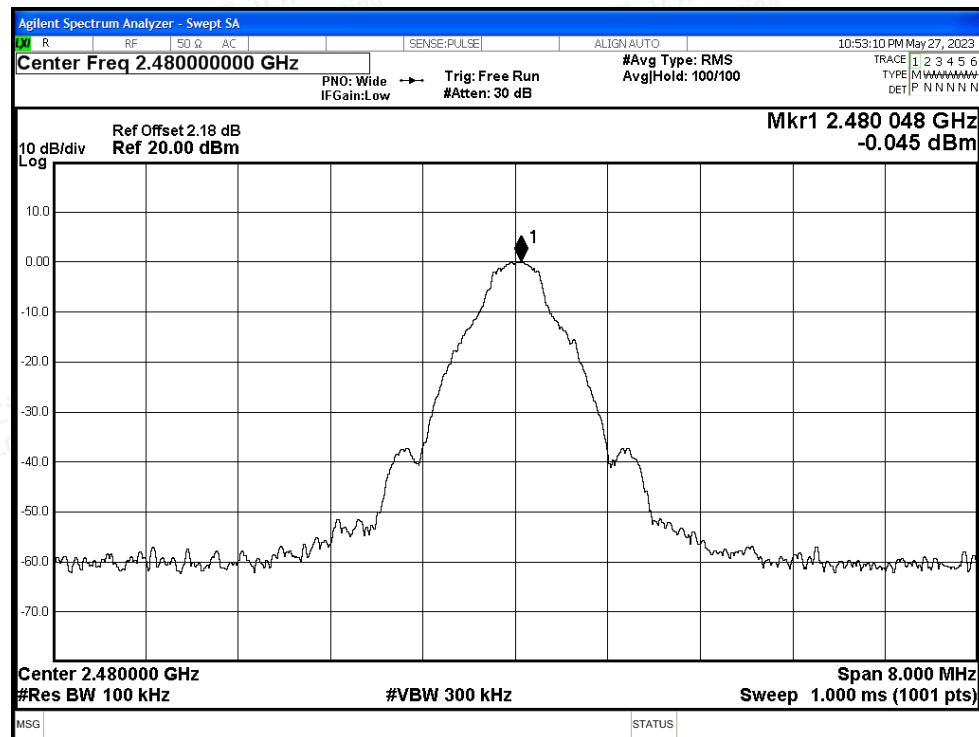


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

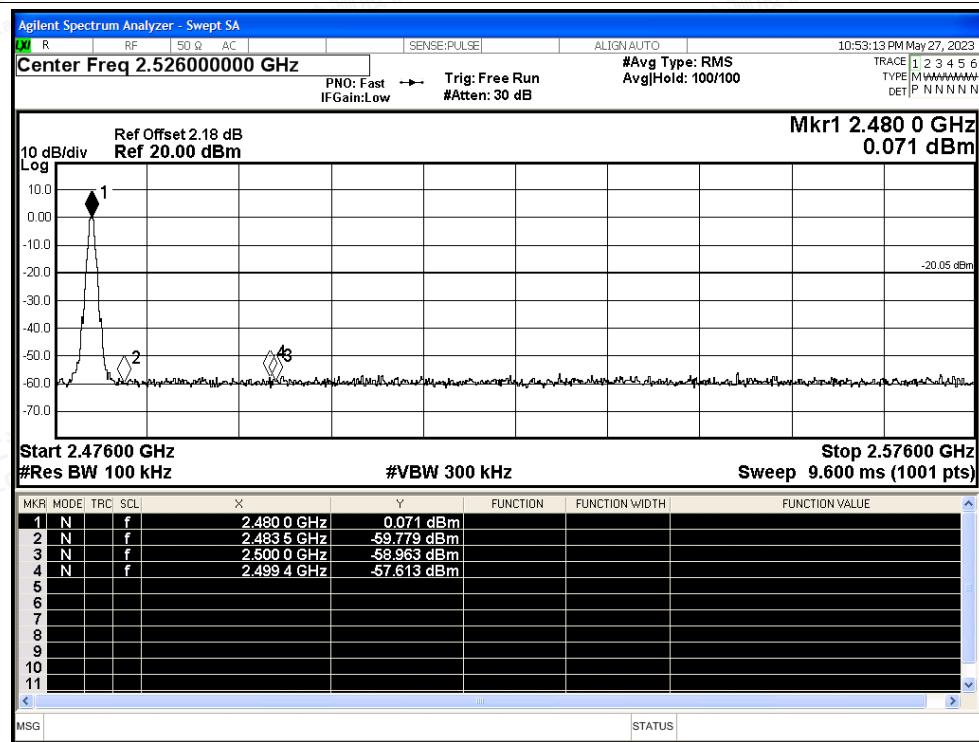




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

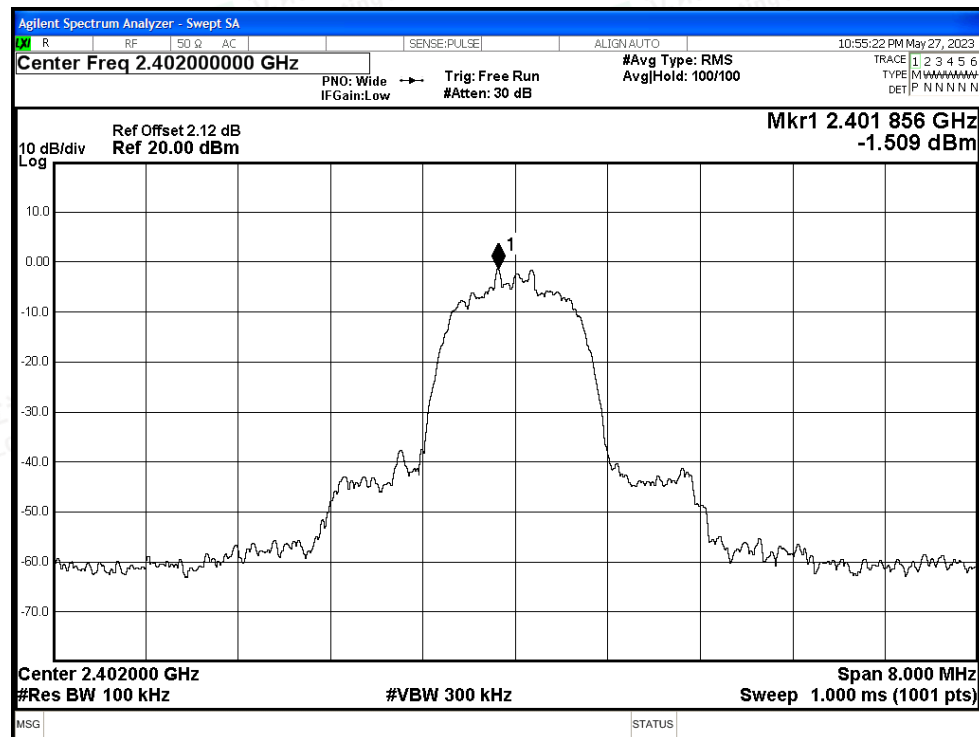


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

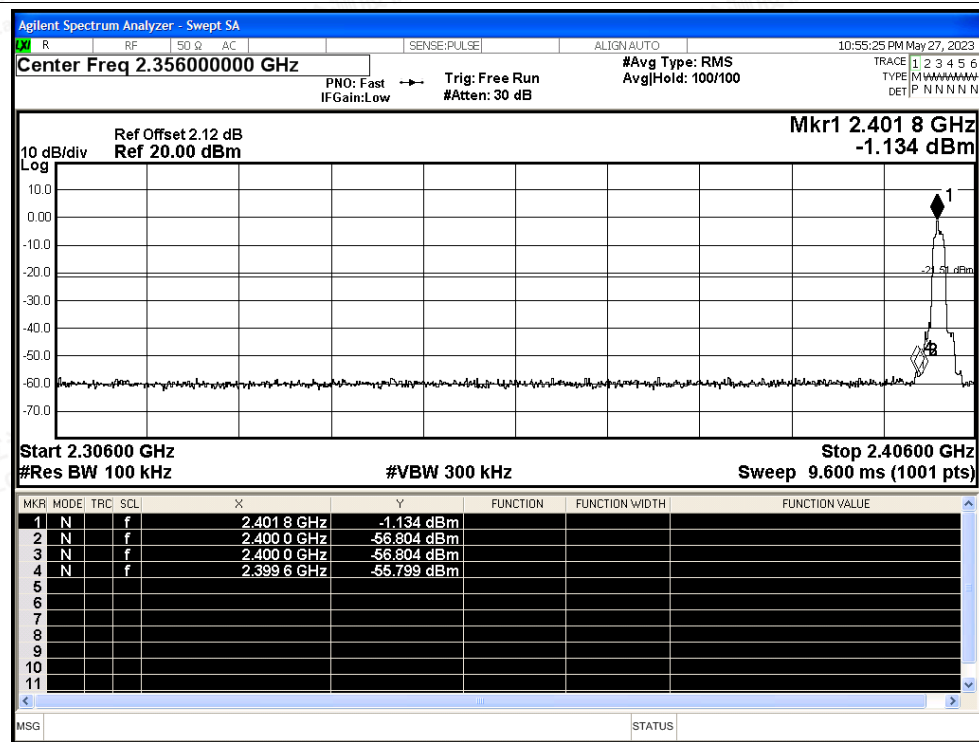




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

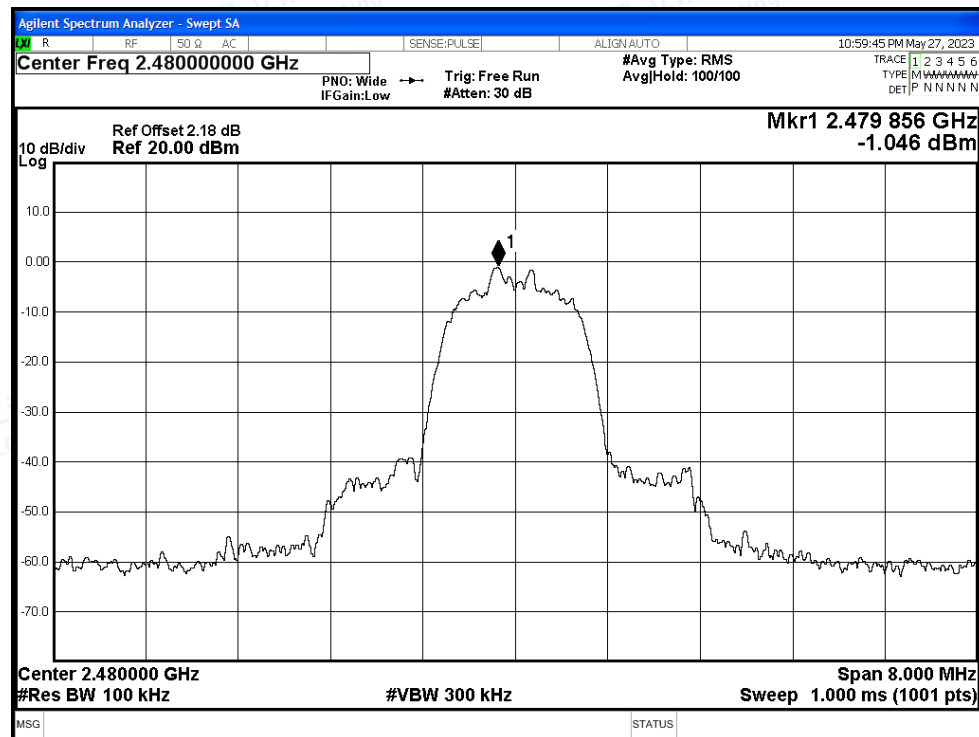


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

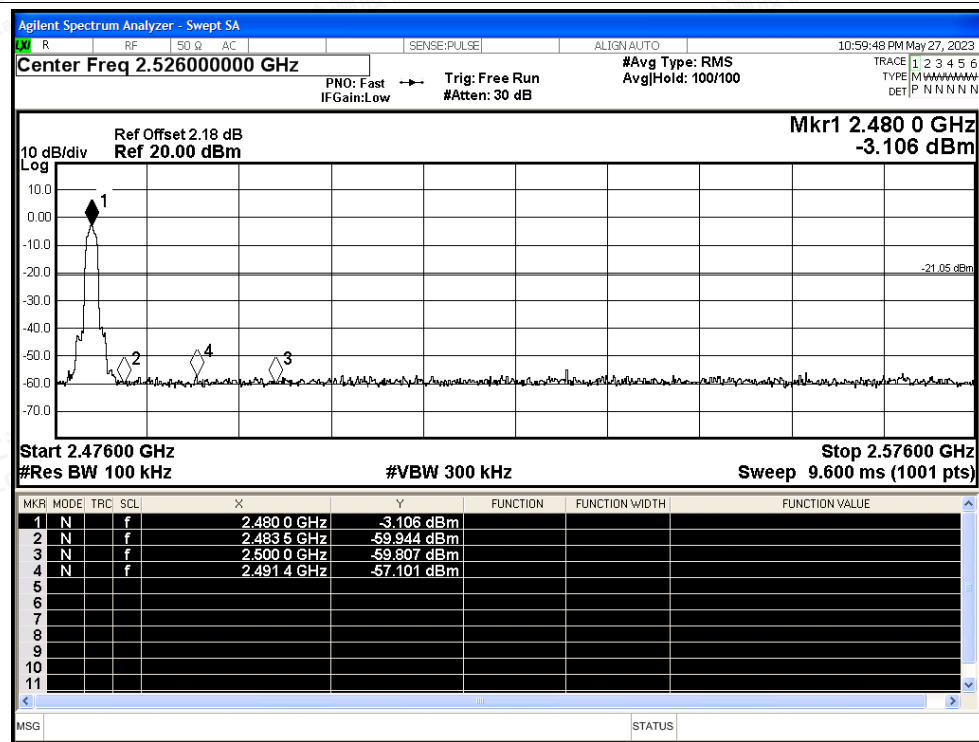




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

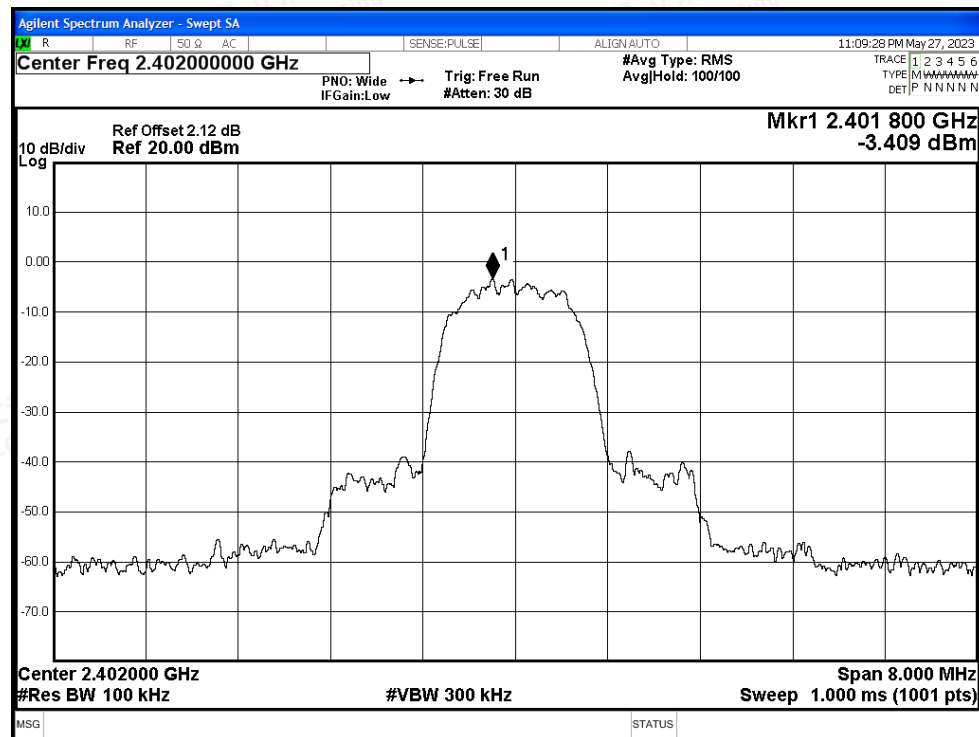


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

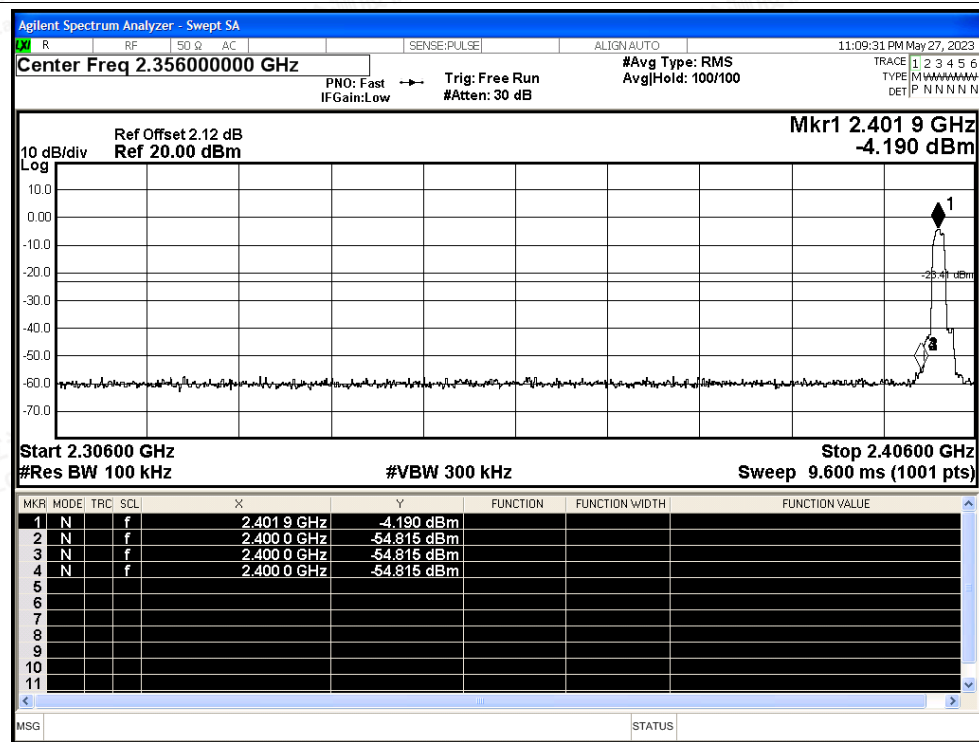




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

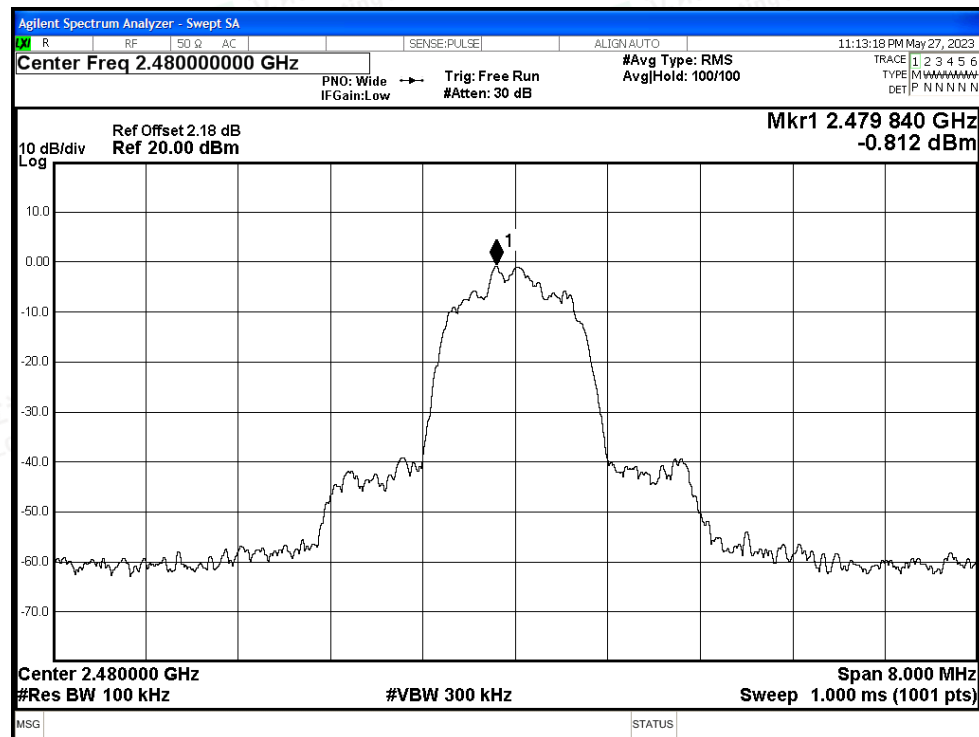


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

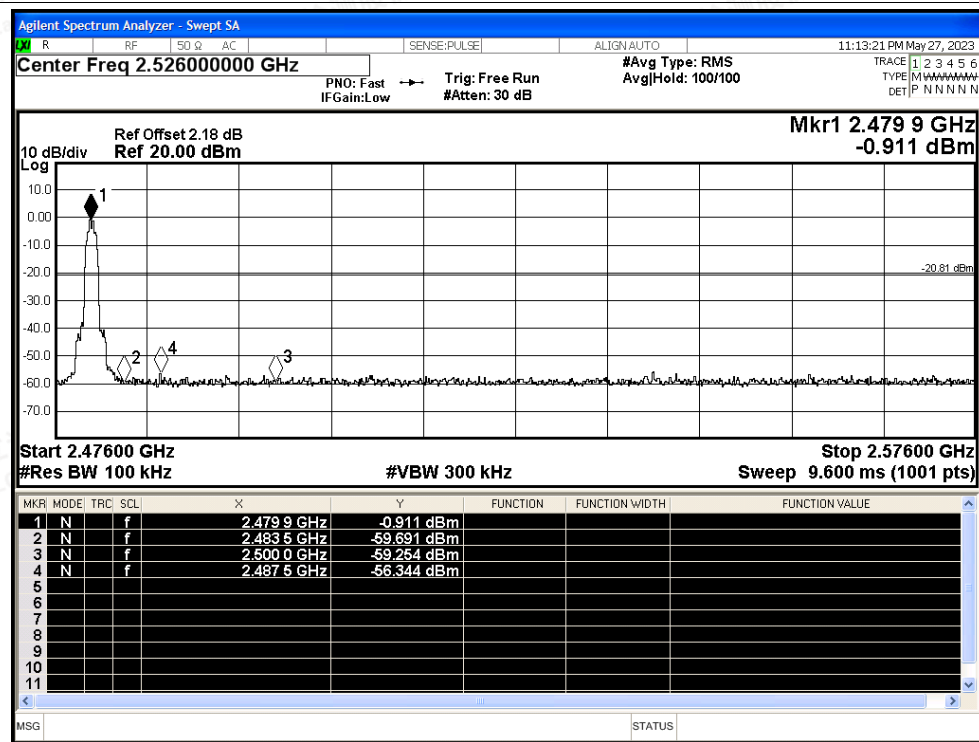




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-56.2	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.12	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.15	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.94	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.78	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.55	-20	Pass

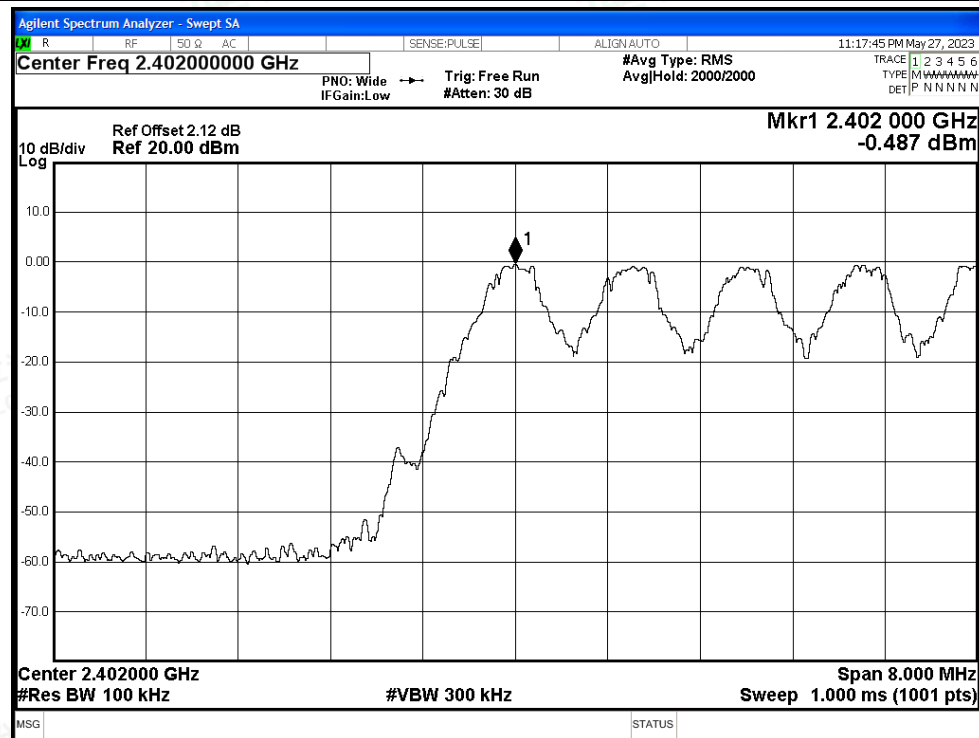


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

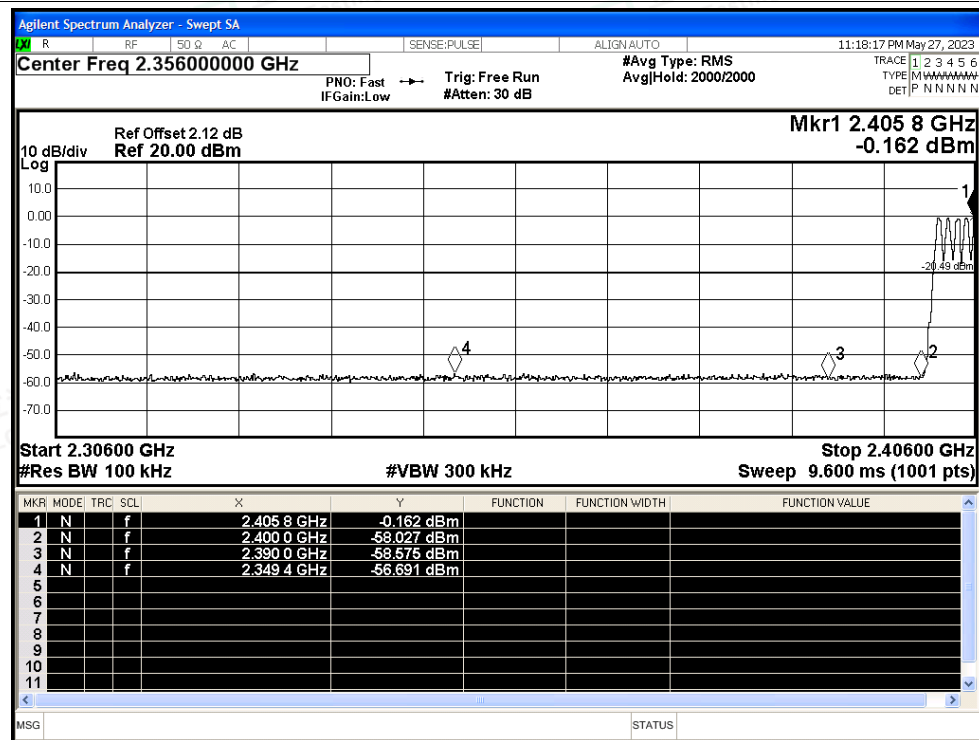


Test Graphs

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

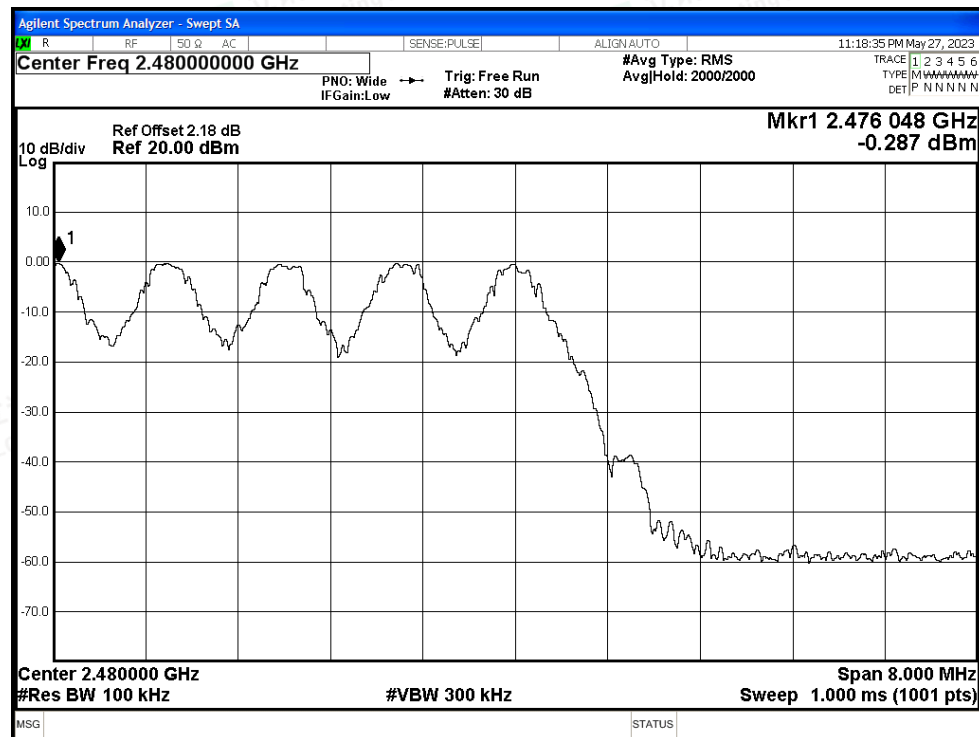


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

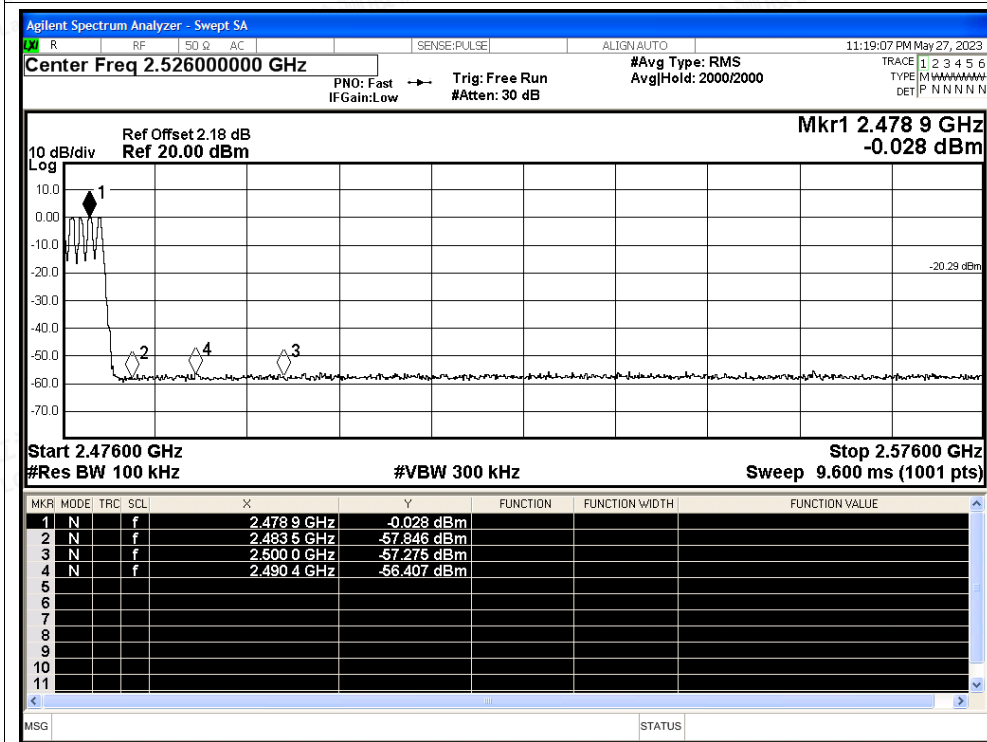




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

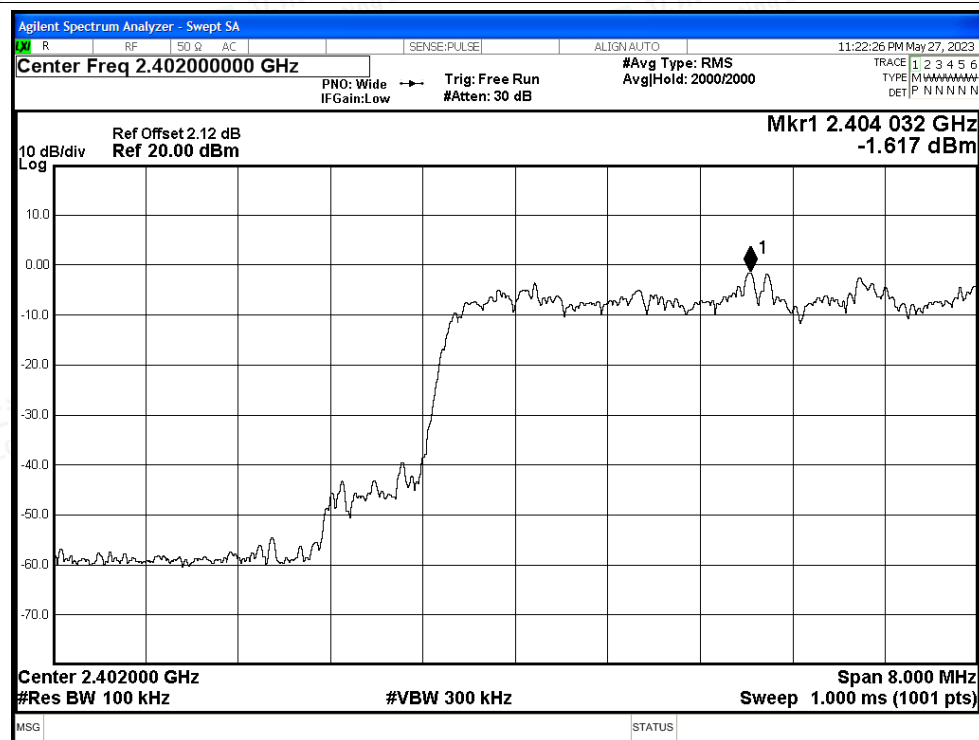


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

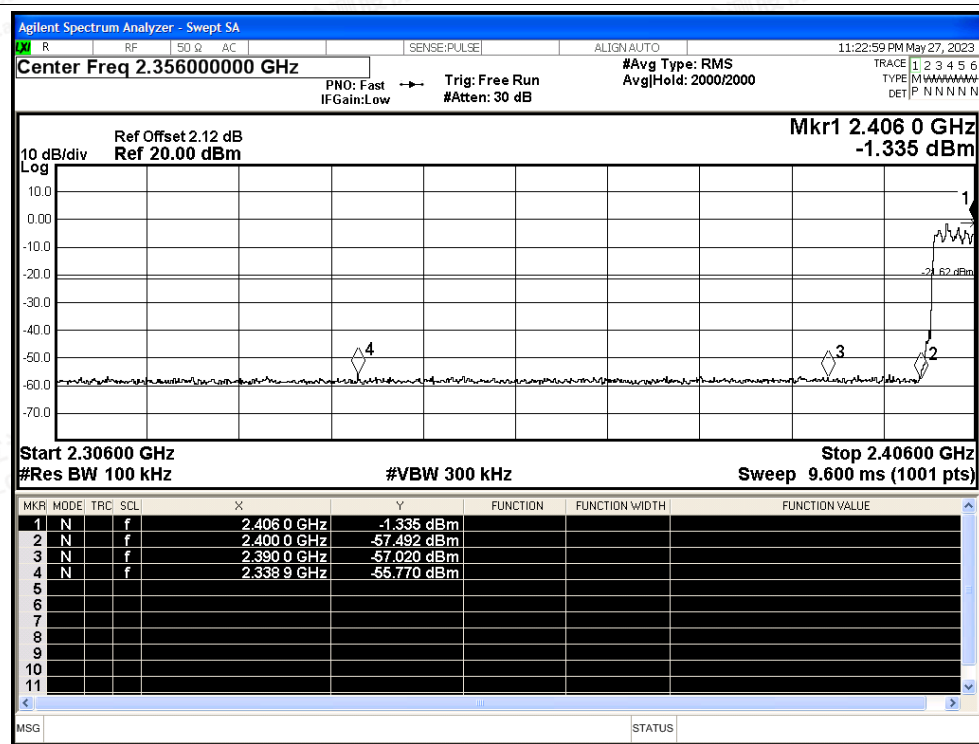




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

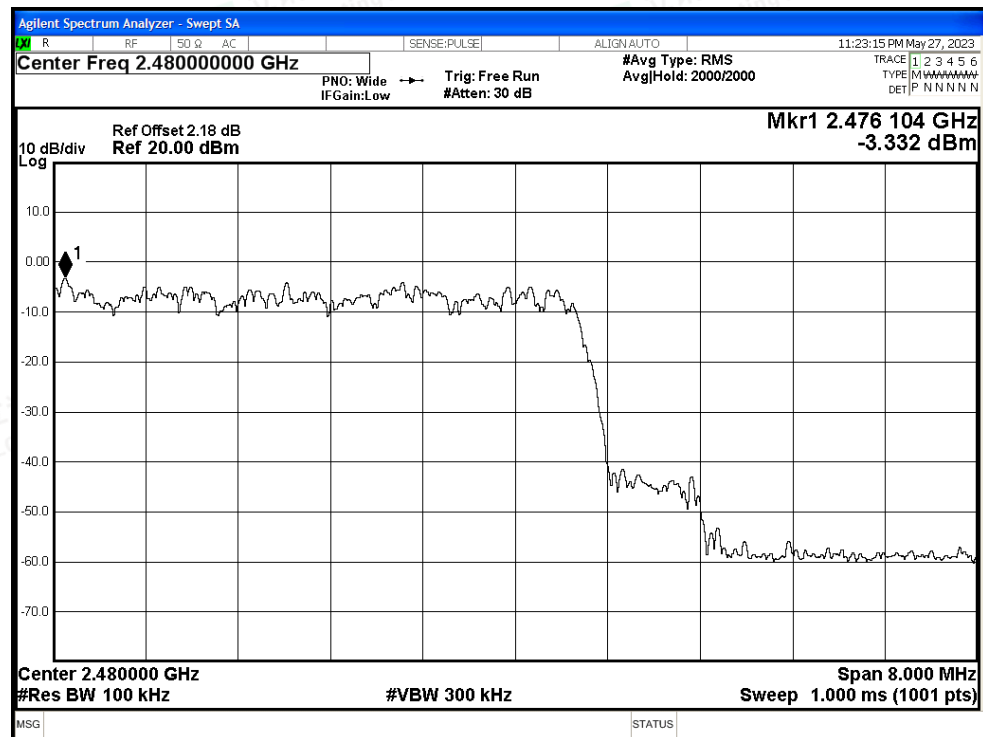


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

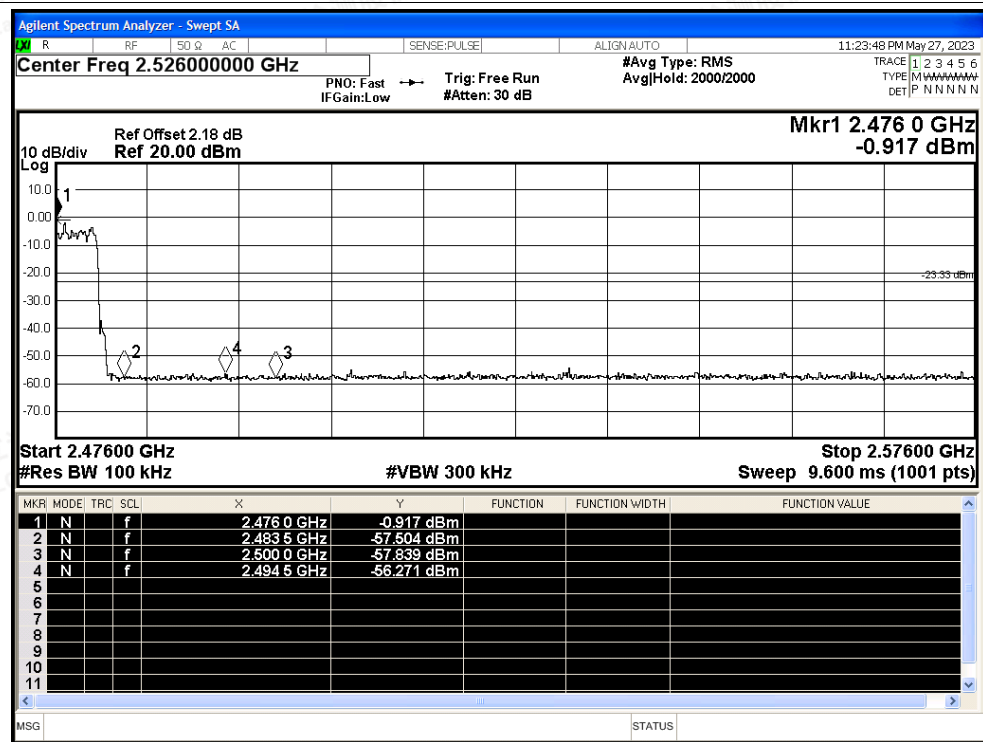




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

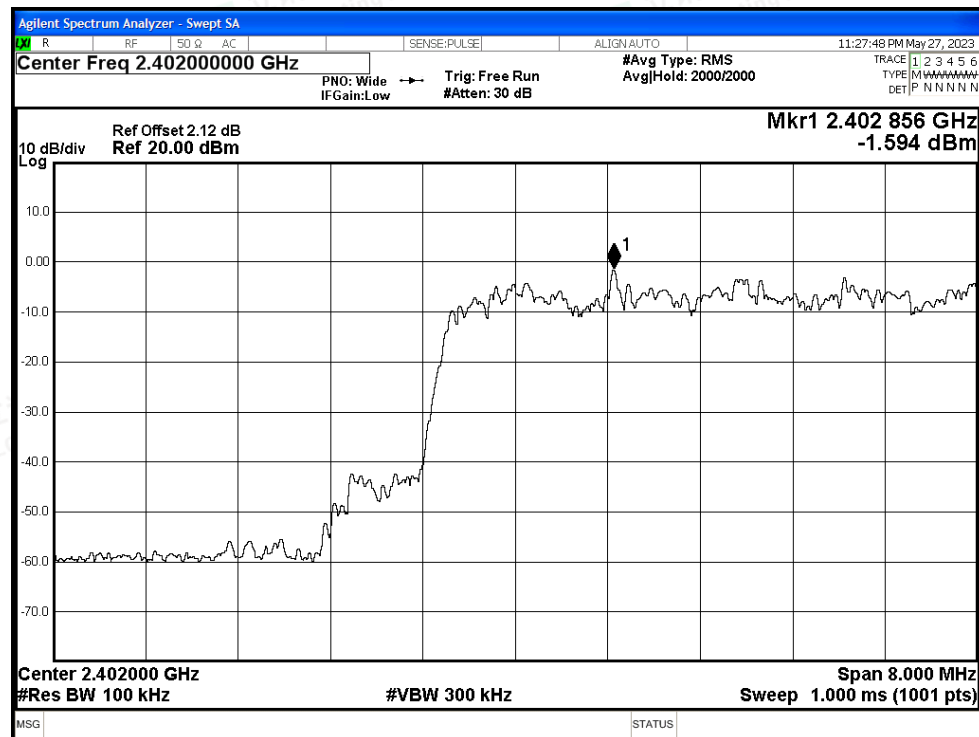


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

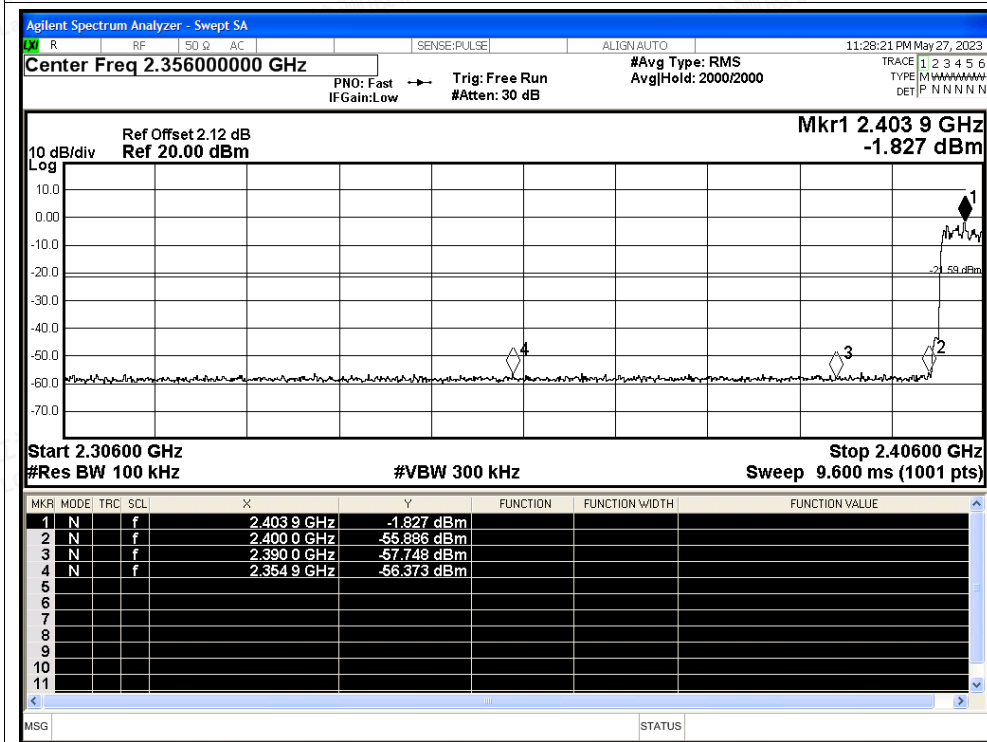




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

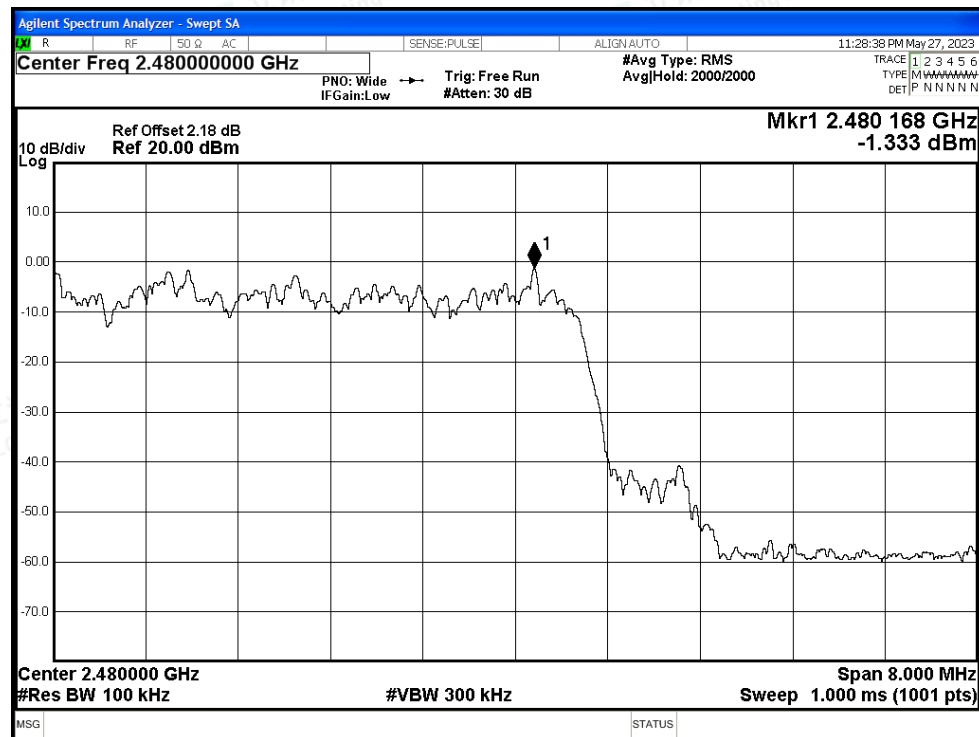


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

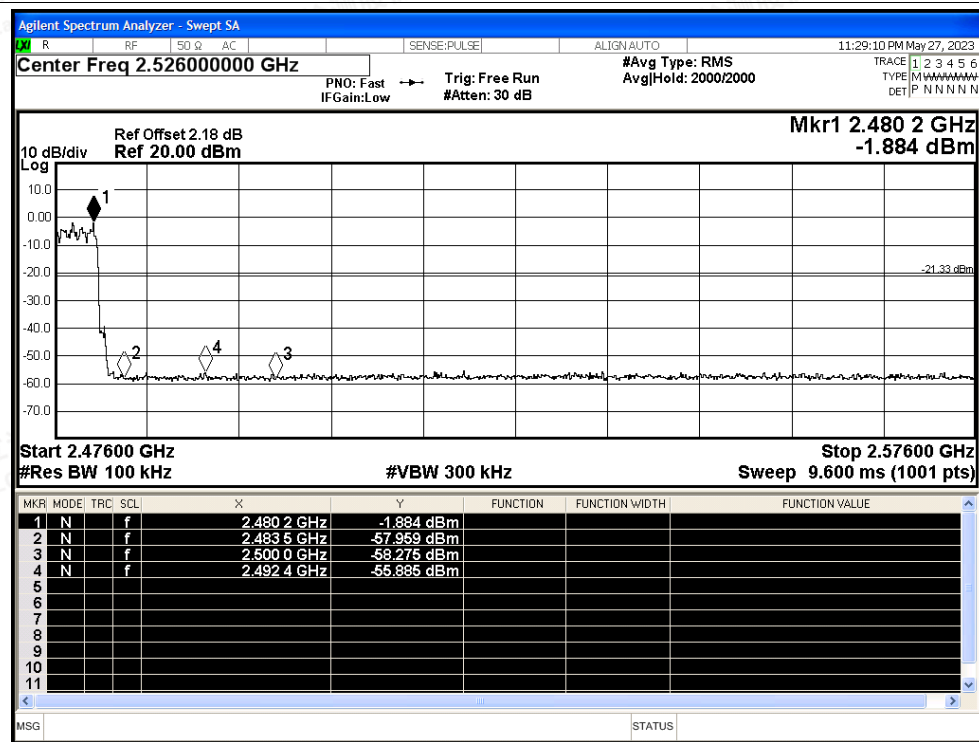




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-55.57	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.95	-20	Pass
NVNT	1-DH5	2480	Ant1	-46.56	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.52	-20	Pass
NVNT	2-DH5	2441	Ant1	-43.38	-20	Pass
NVNT	2-DH5	2480	Ant1	-40.68	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.91	-20	Pass
NVNT	3-DH5	2441	Ant1	-51.97	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.42	-20	Pass

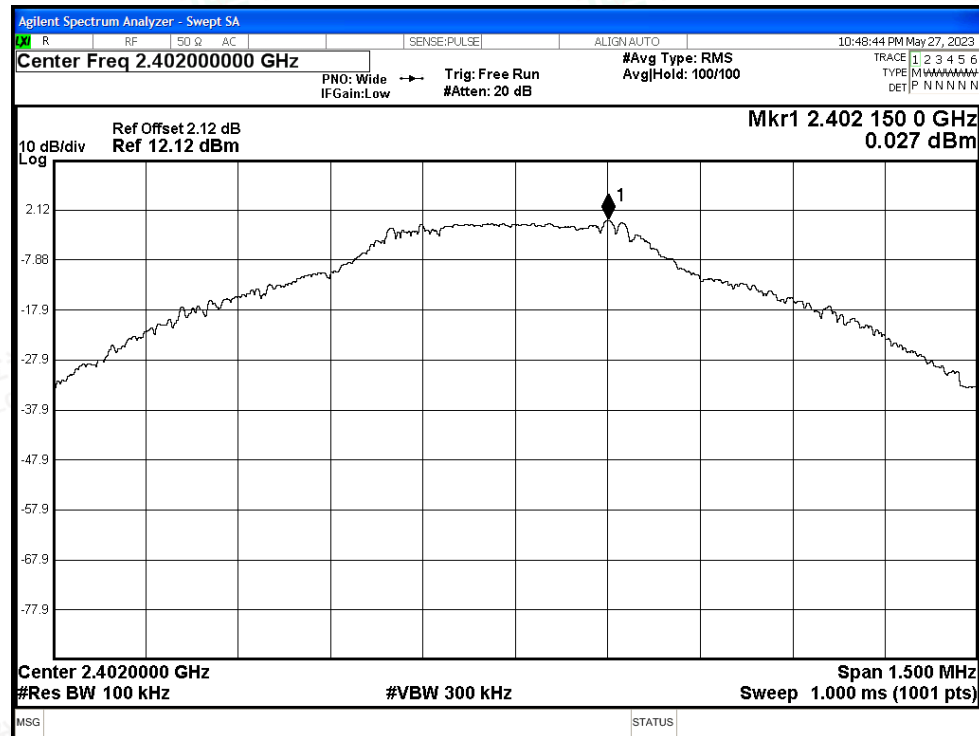


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

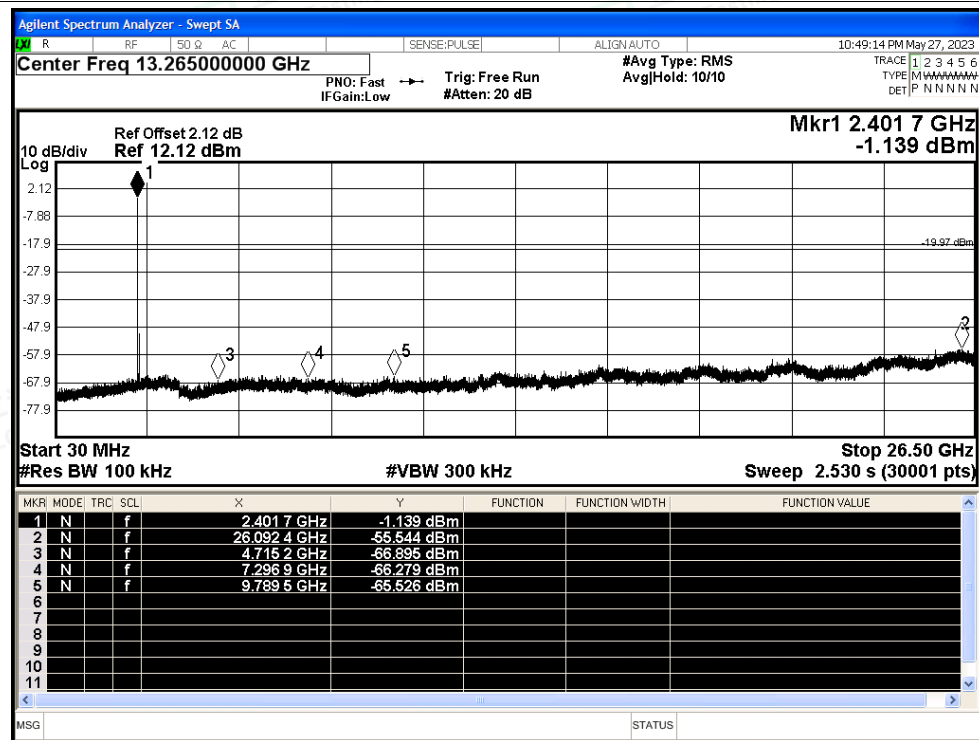


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

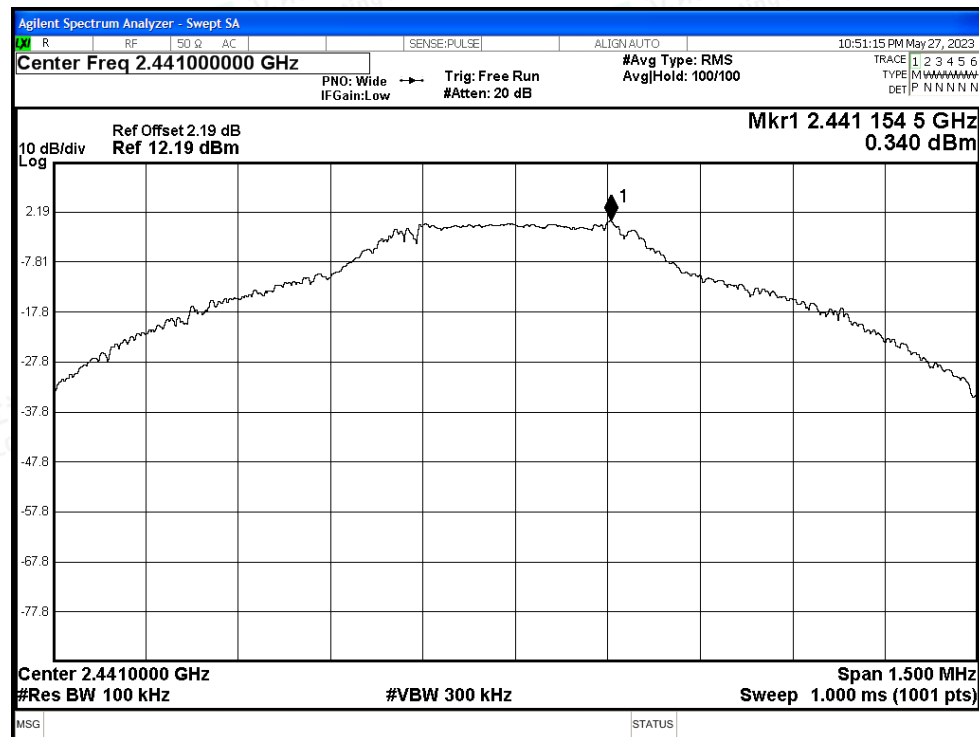


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

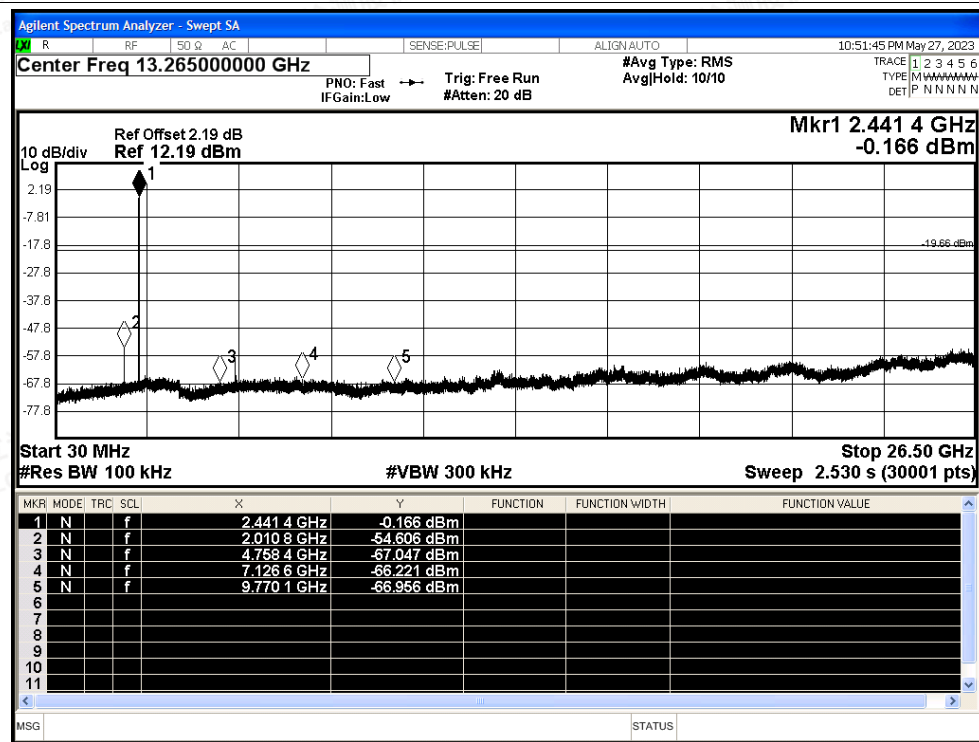




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

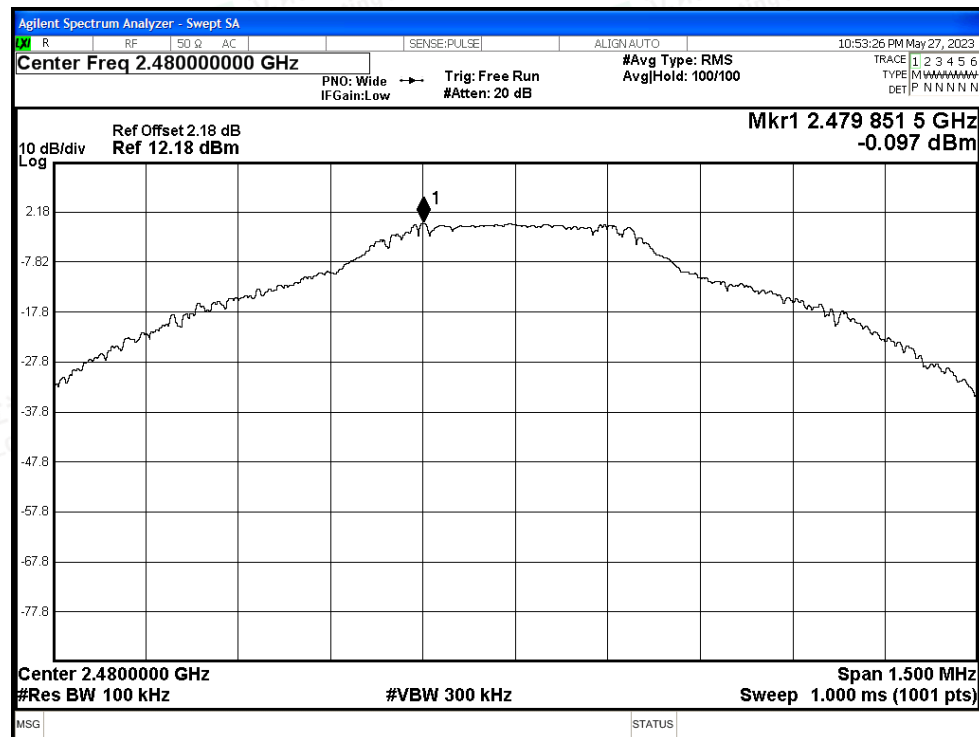


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

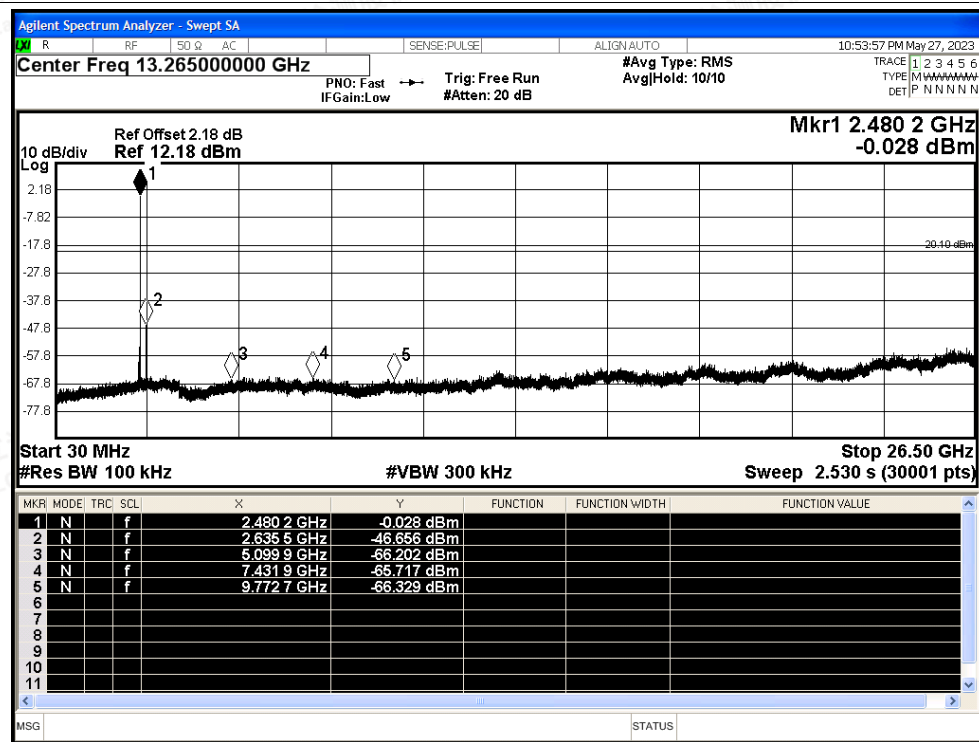




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

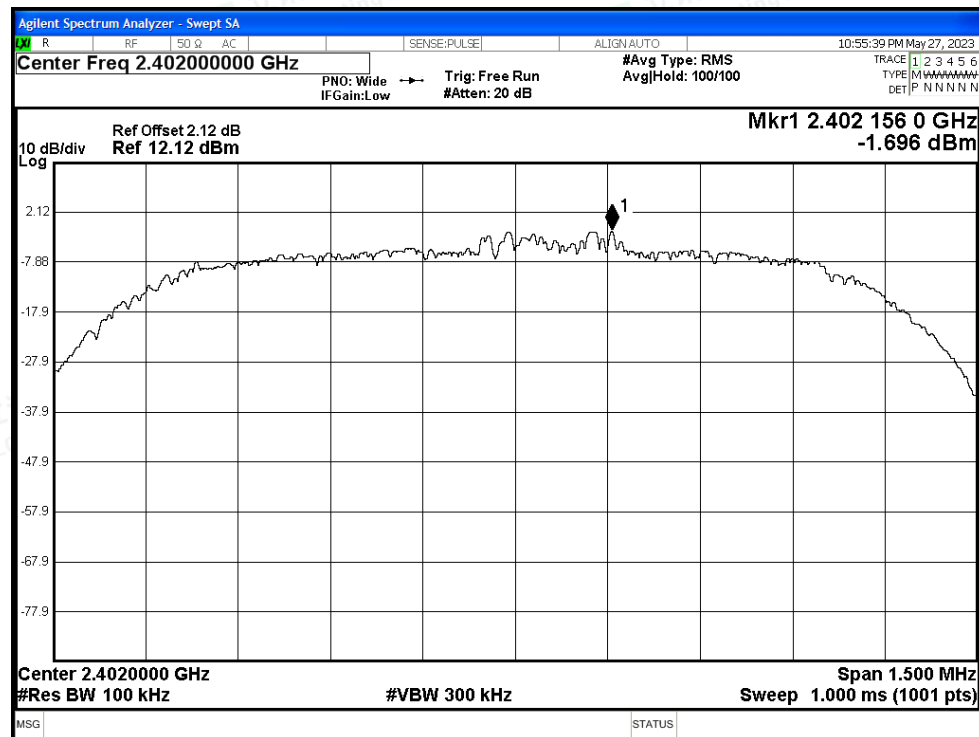


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

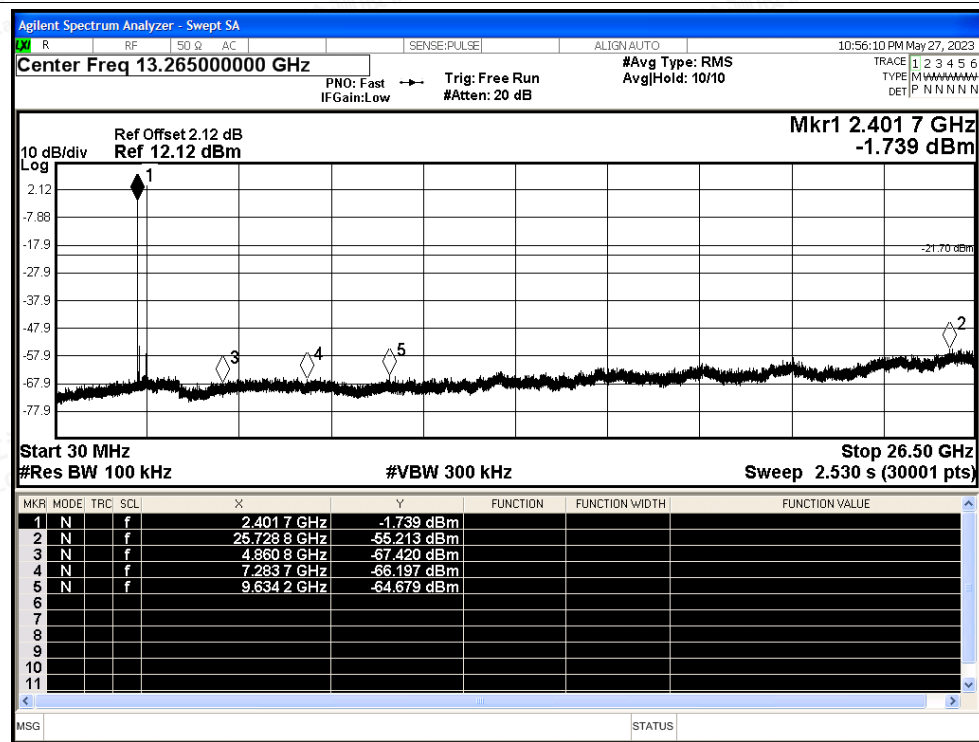




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

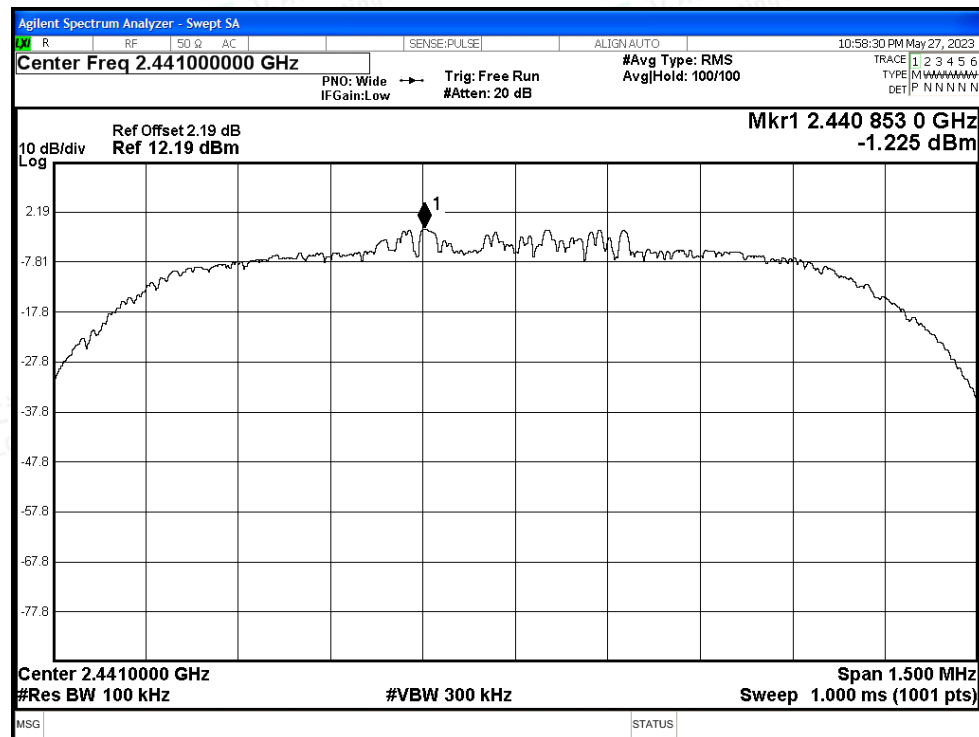


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

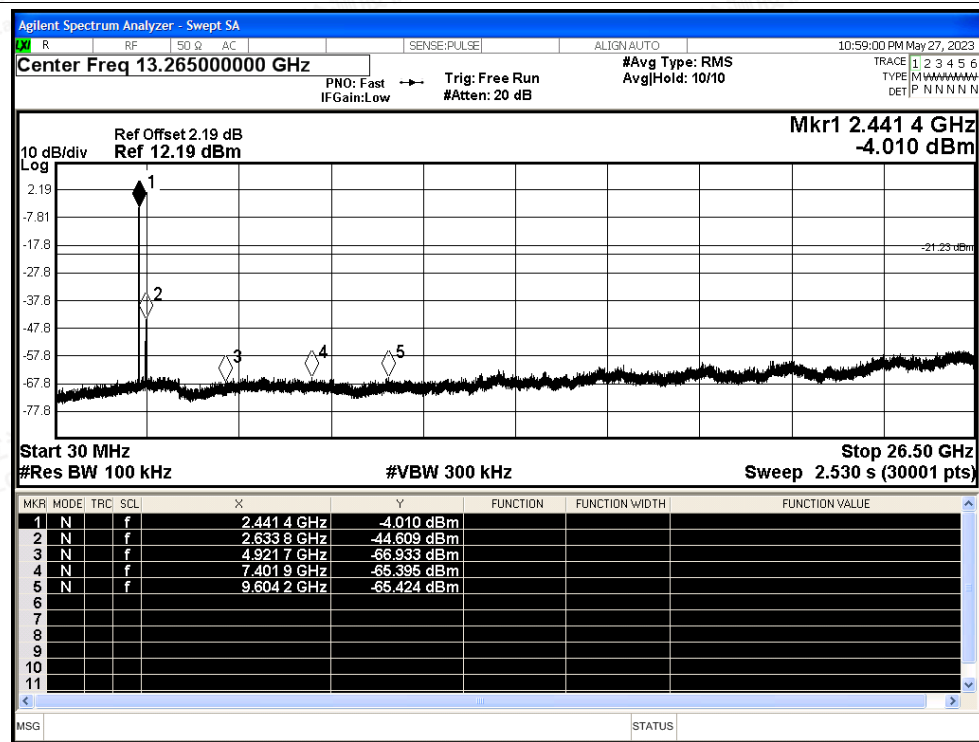




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

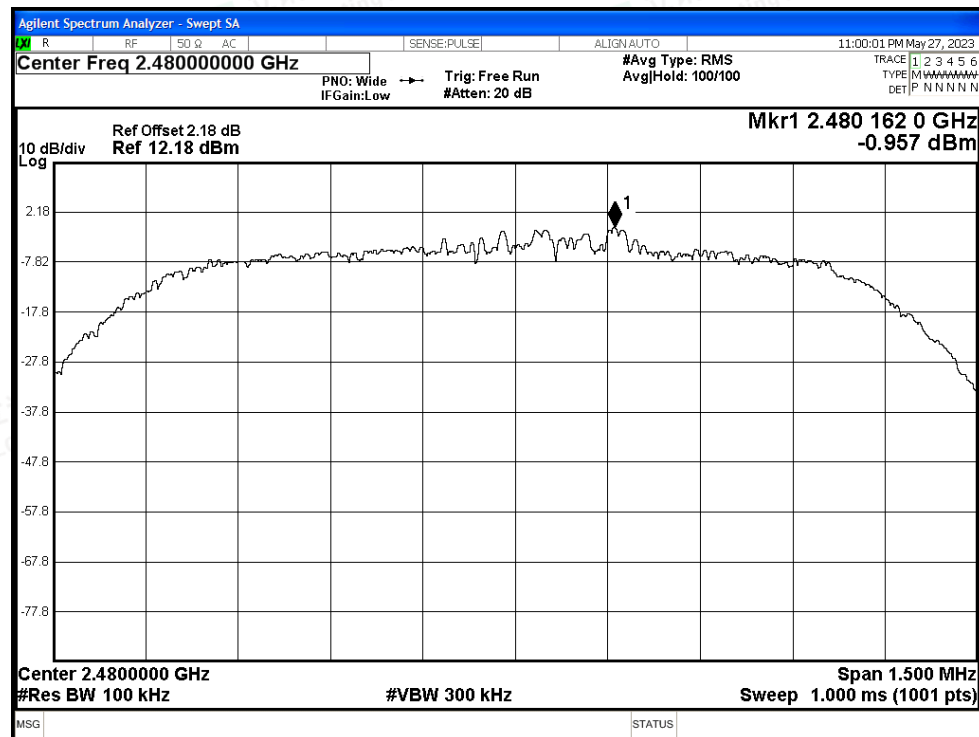


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

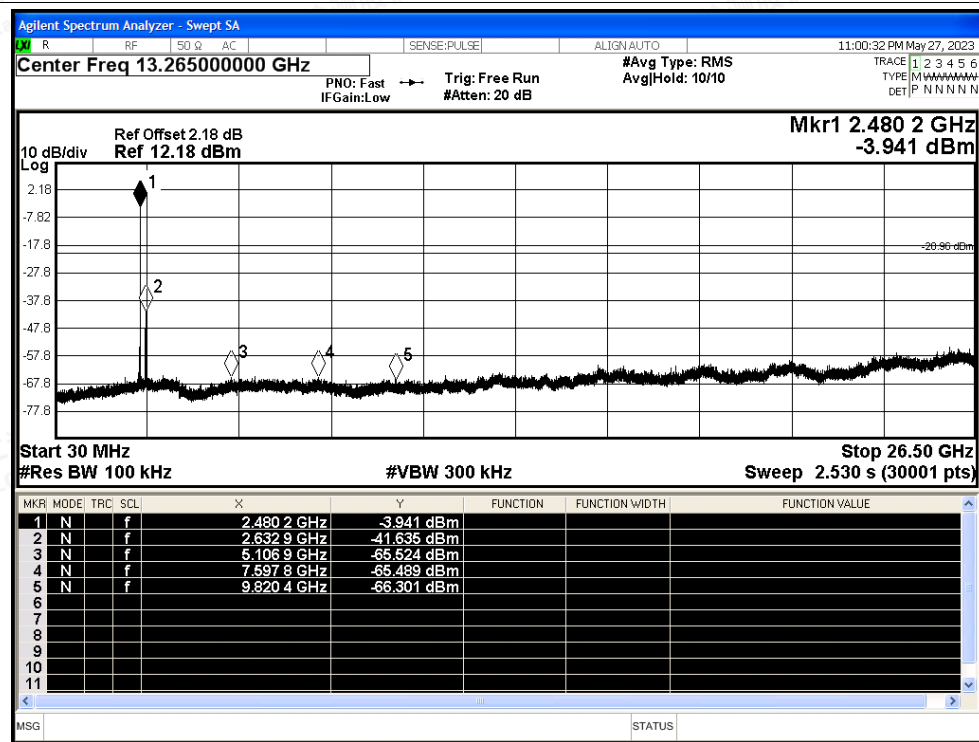




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

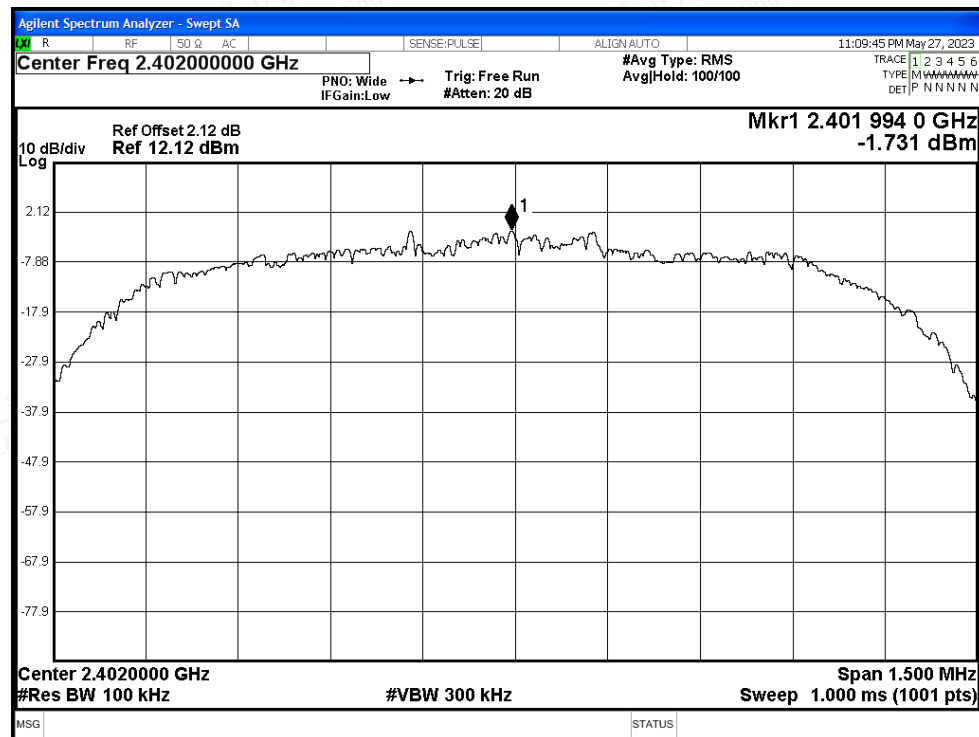


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

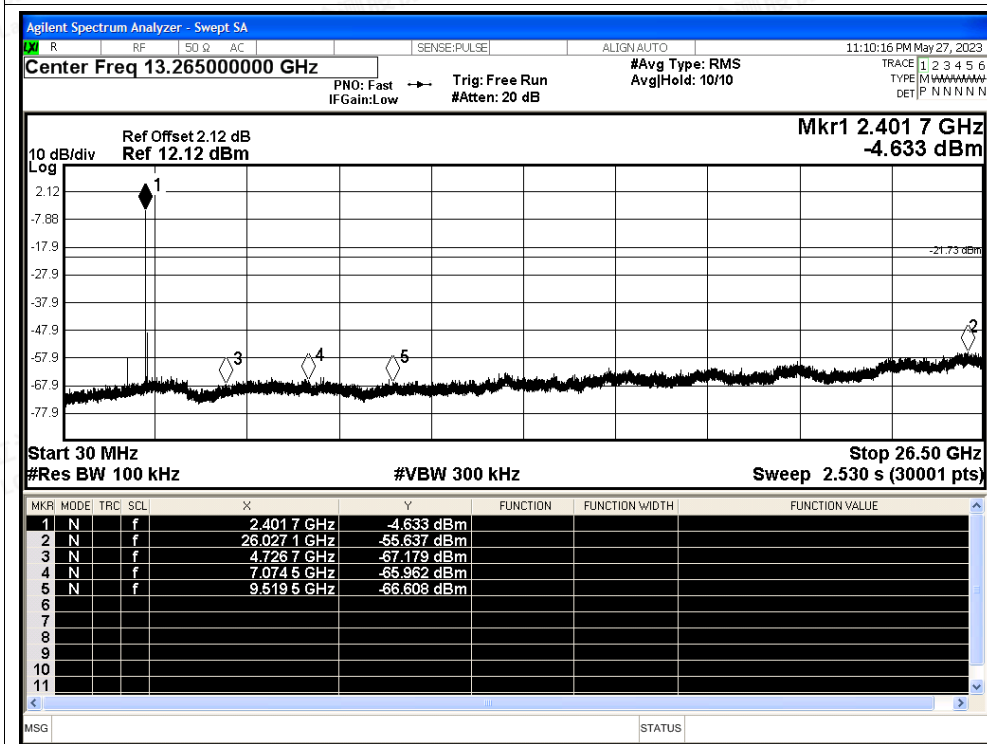




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

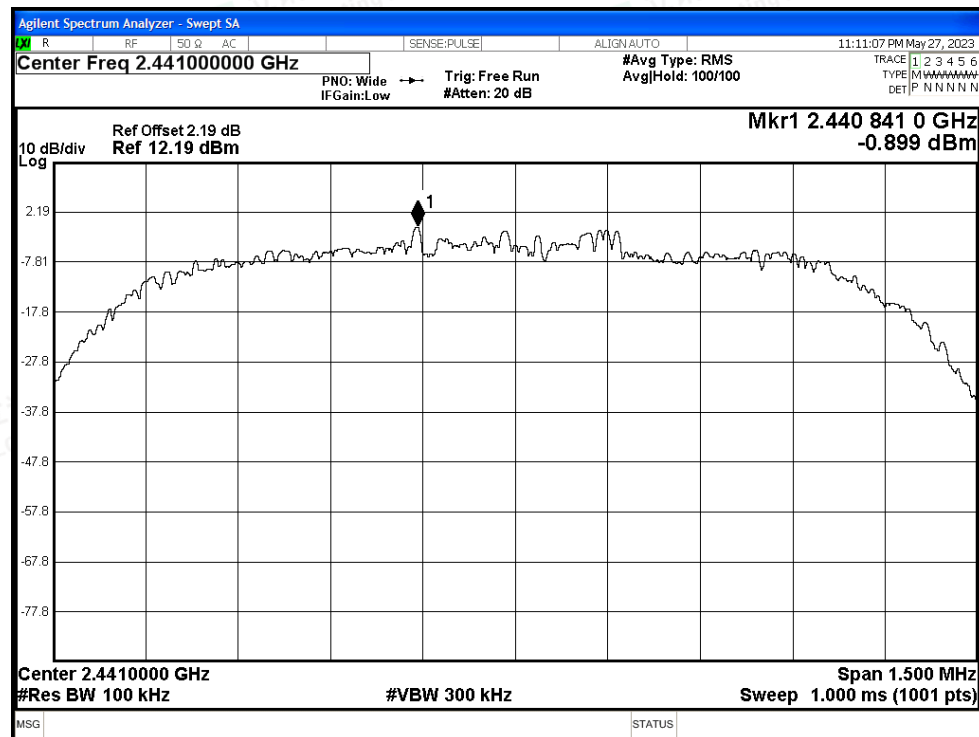


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

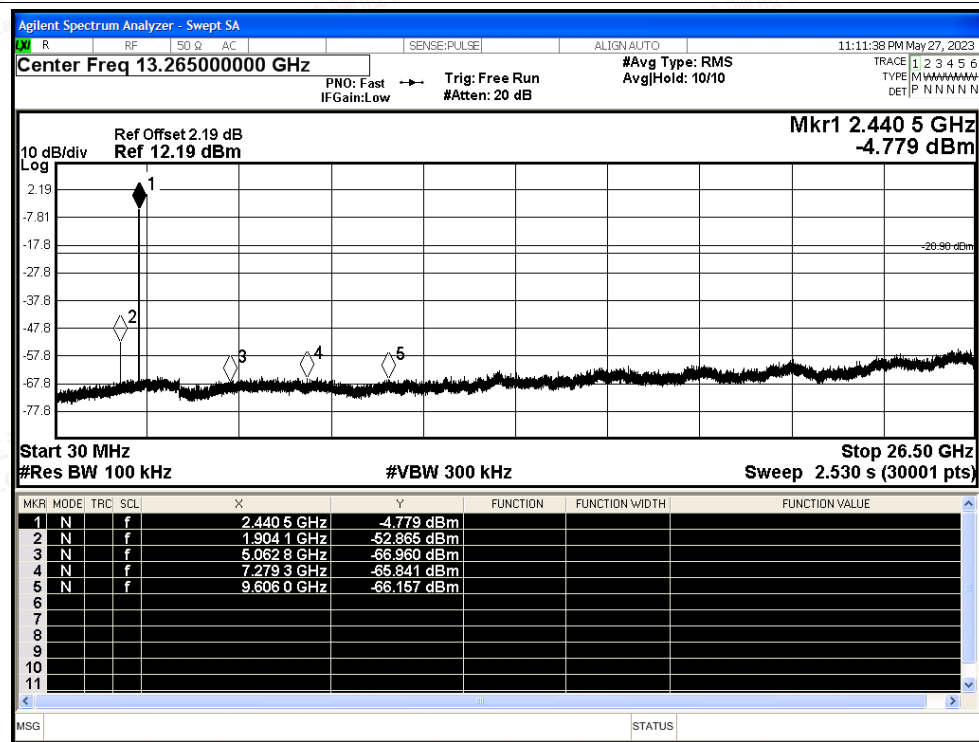




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

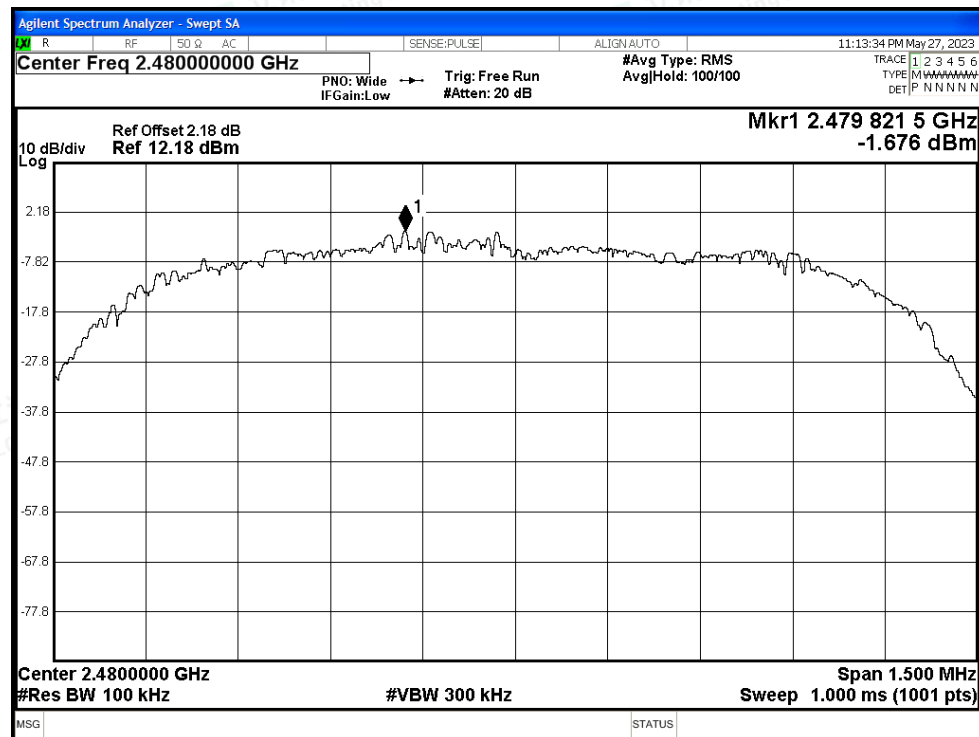


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

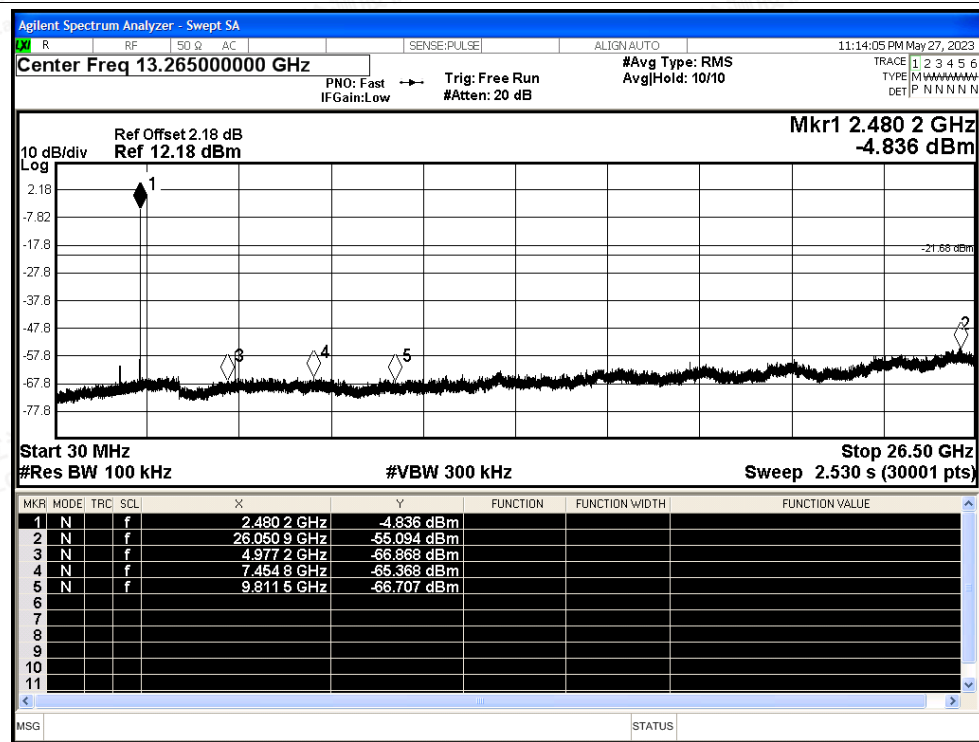




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

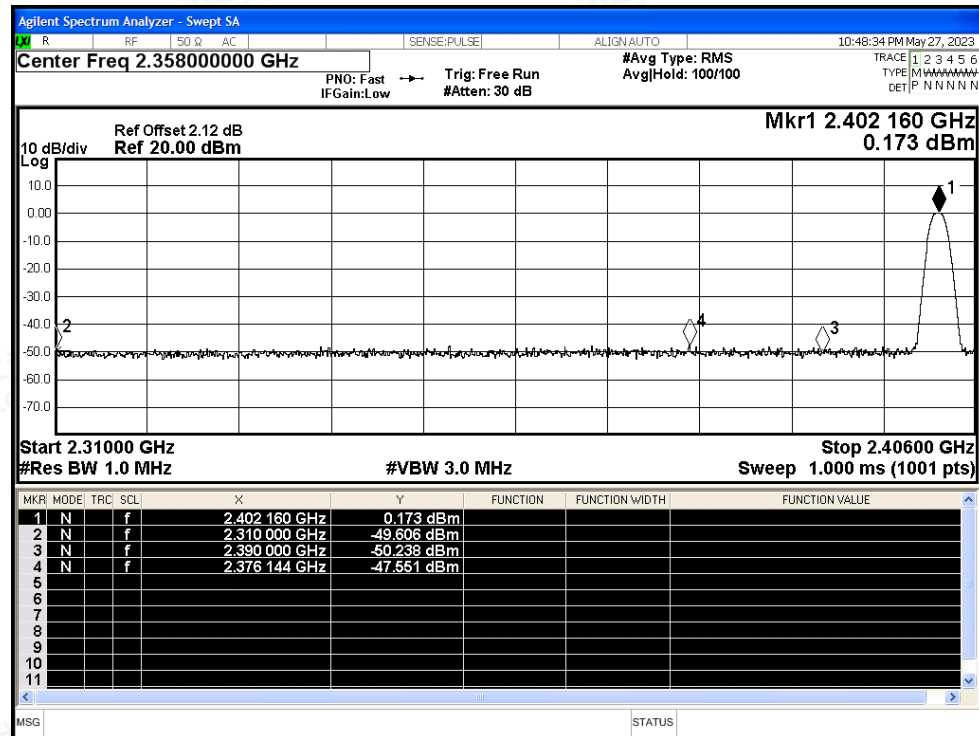
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-49.61	2	47.65	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.99	2	39.27	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2376.144	-47.55	2	49.71	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2387.088	-57.52	2	39.74	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.24	2	47.02	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.66	2	39.6	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-51.32	2	45.94	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.8	2	41.46	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2487.352	-47.12	2	50.14	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.8	2	41.46	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.02	2	46.24	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.38	2	39.88	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.22	2	46.04	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.11	2	39.15	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2375.184	-46.72	2	50.54	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2385.264	-57.5	2	39.76	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.65	2	45.61	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.73	2	39.53	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.94	2	46.32	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.54	2	41.72	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.824	-47.27	2	49.99	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.54	2	41.72	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.75	2	48.51	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.34	2	39.92	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.51	2	45.75	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.1	2	39.16	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2337.936	-47.69	2	49.57	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2388.048	-57.49	2	39.77	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.48	2	46.78	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.73	2	39.53	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.71	2	47.55	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.63	2	41.63	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2494.408	-47.44	2	49.82	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.63	2	41.63	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.93	2	48.33	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.35	2	39.91	Average	54	Pass



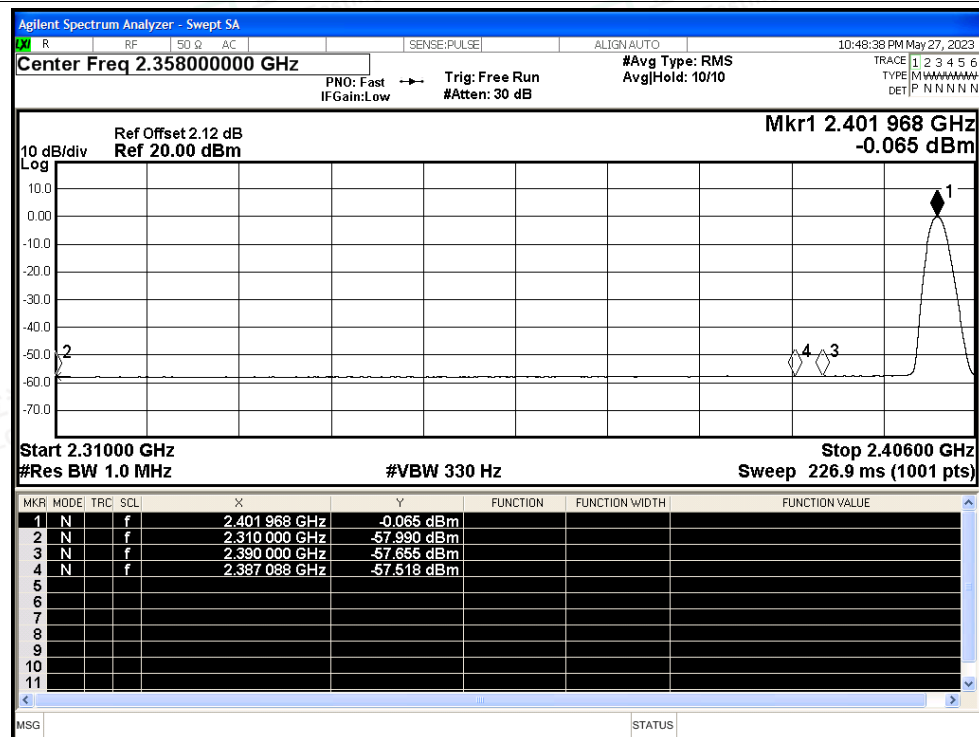


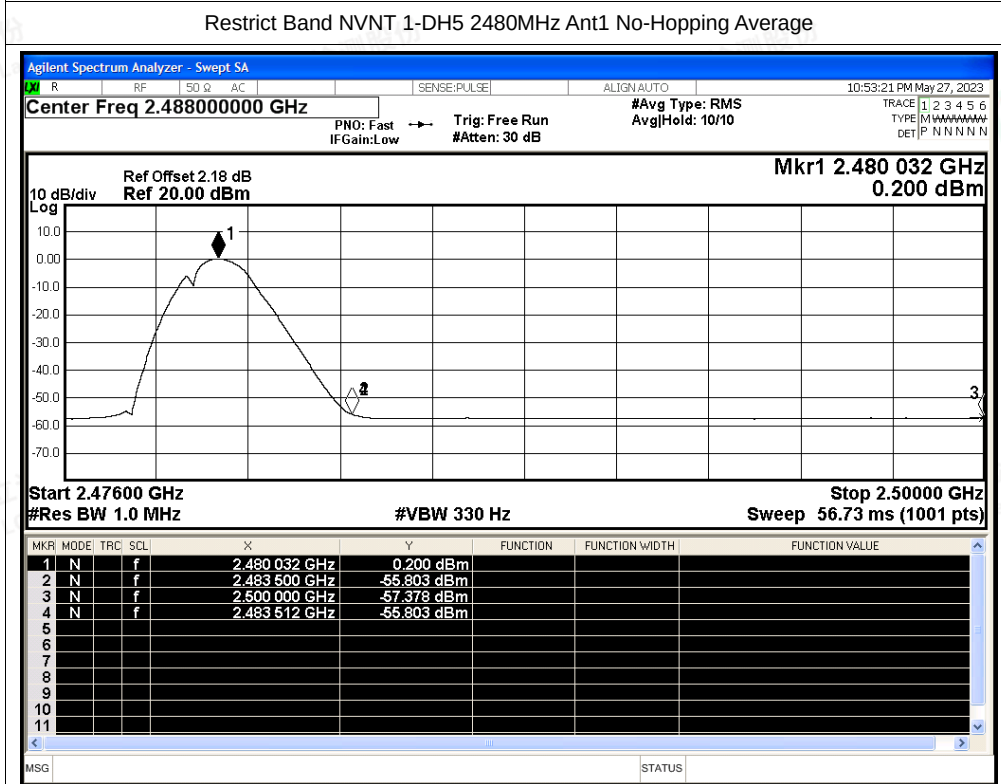
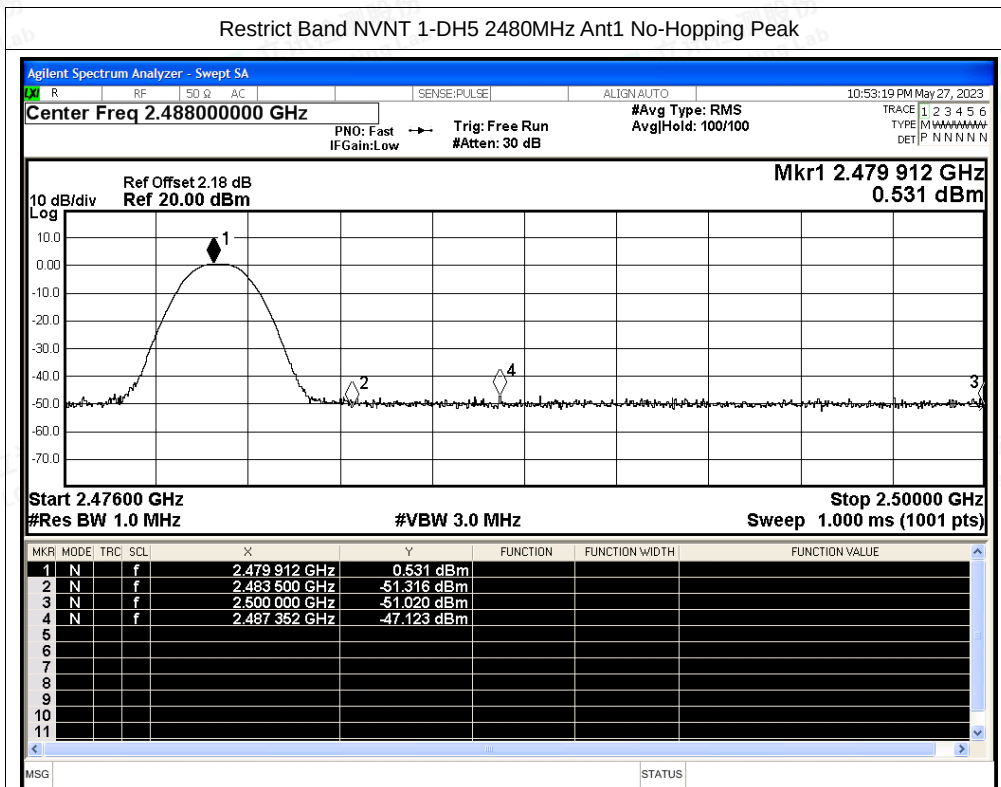
Test Graphs

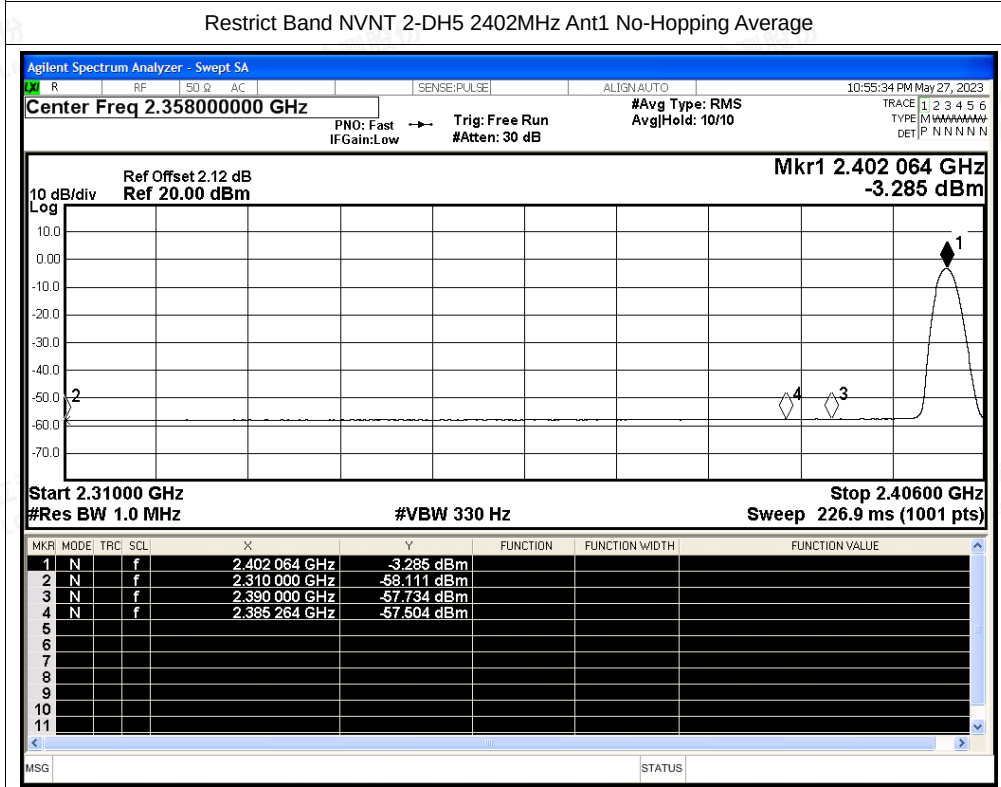
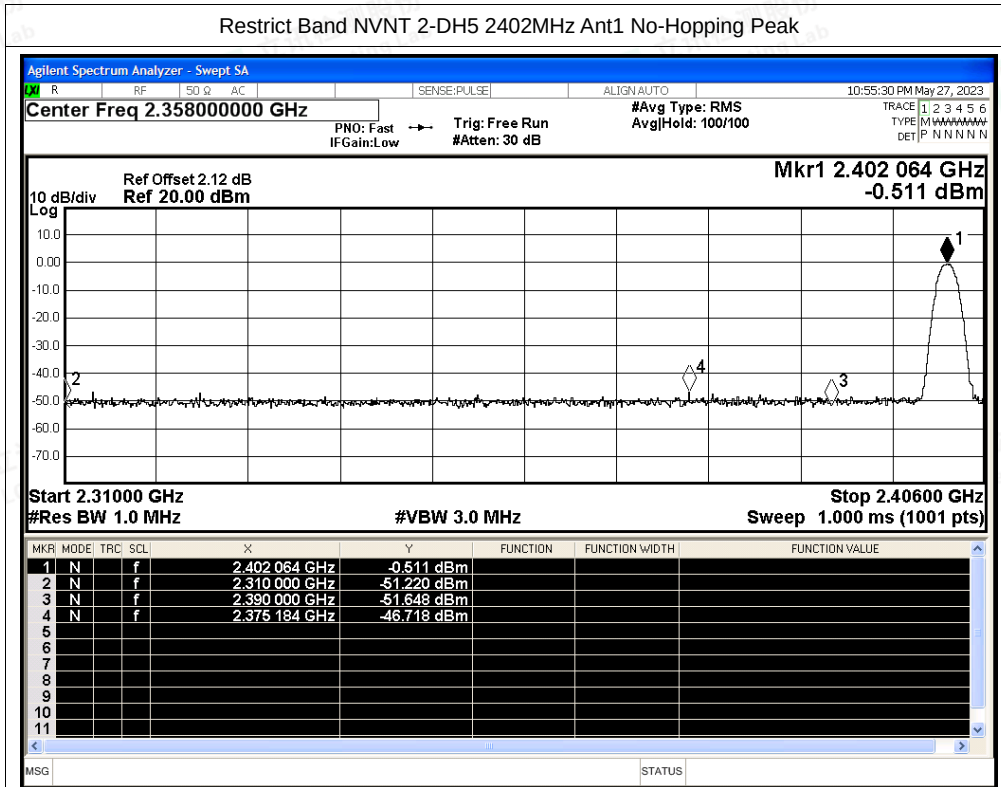
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



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

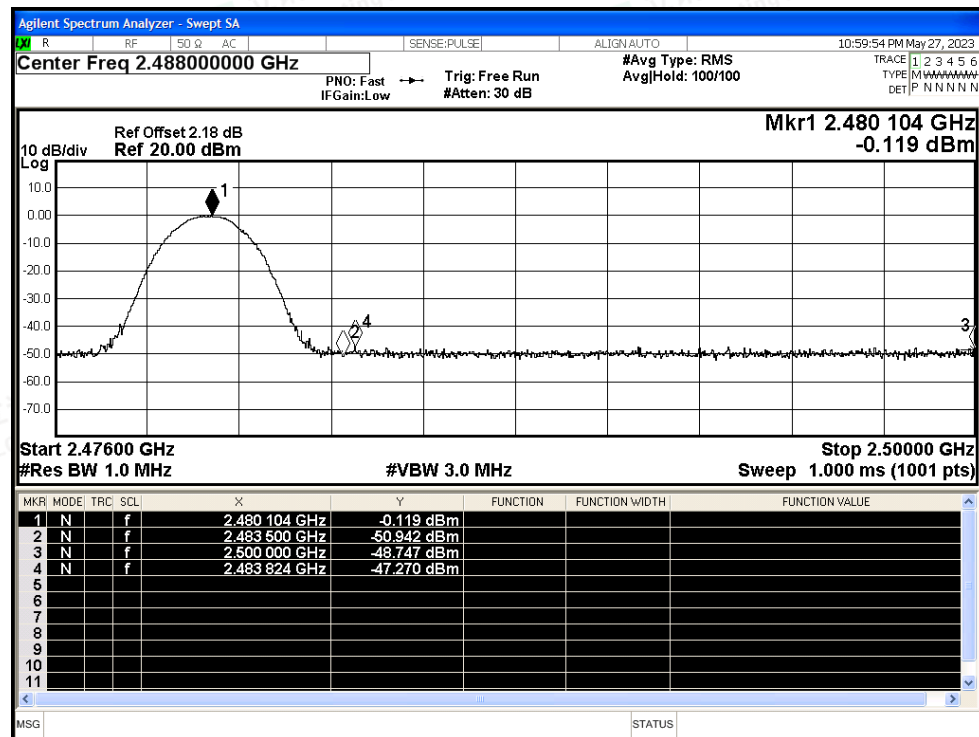




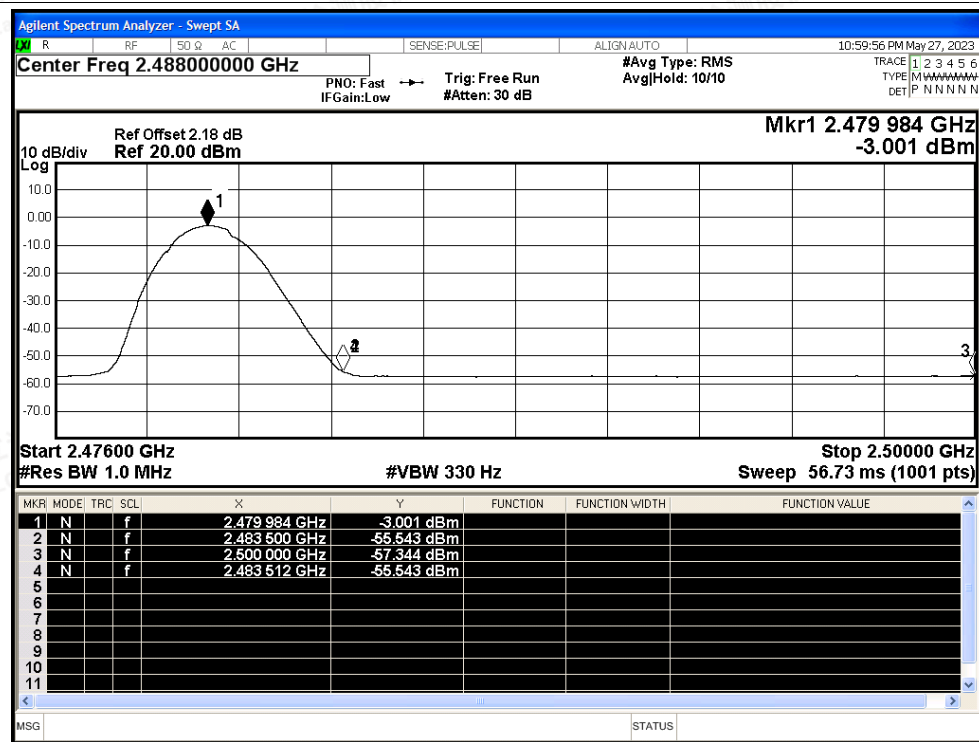


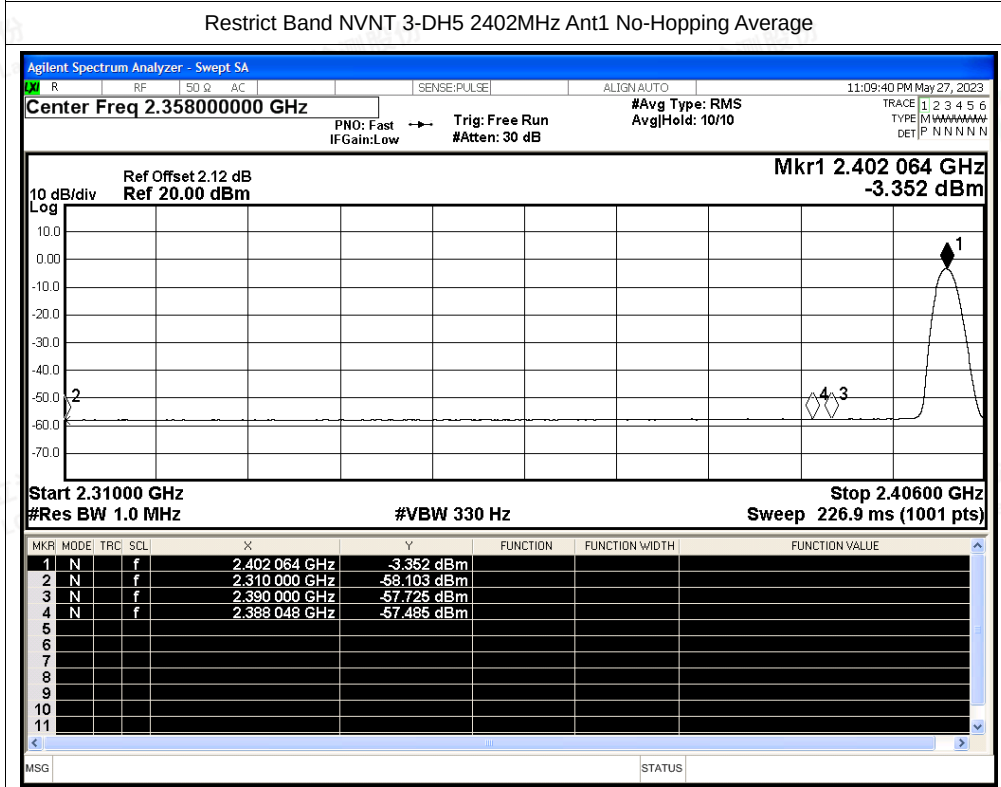
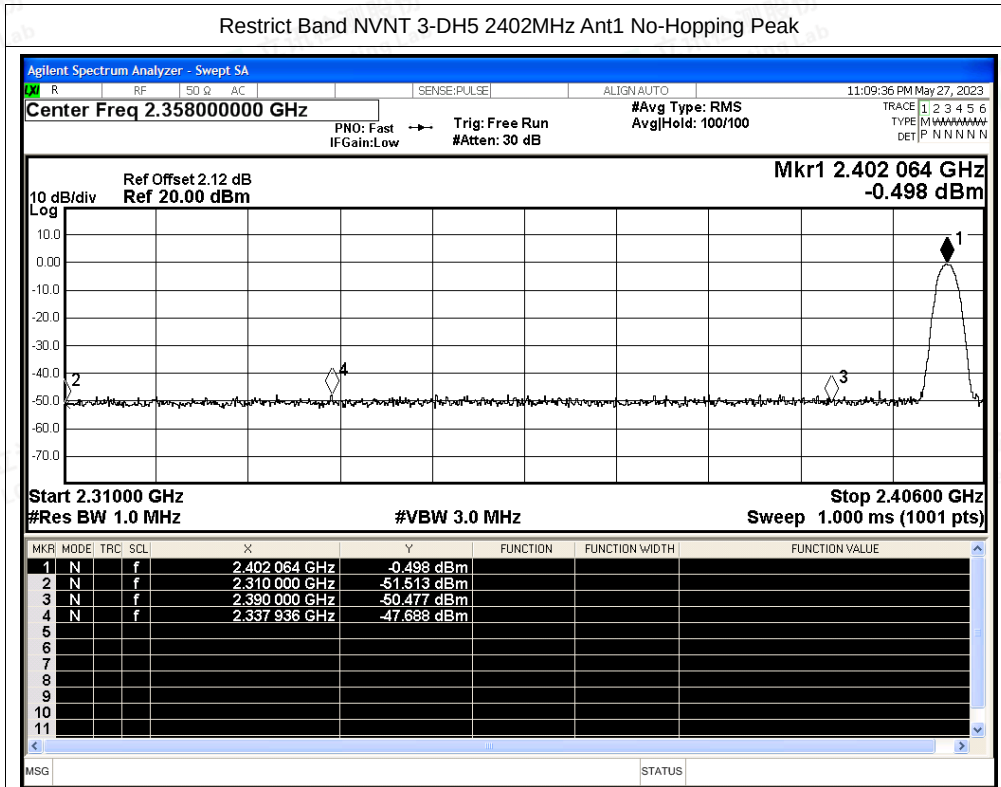


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



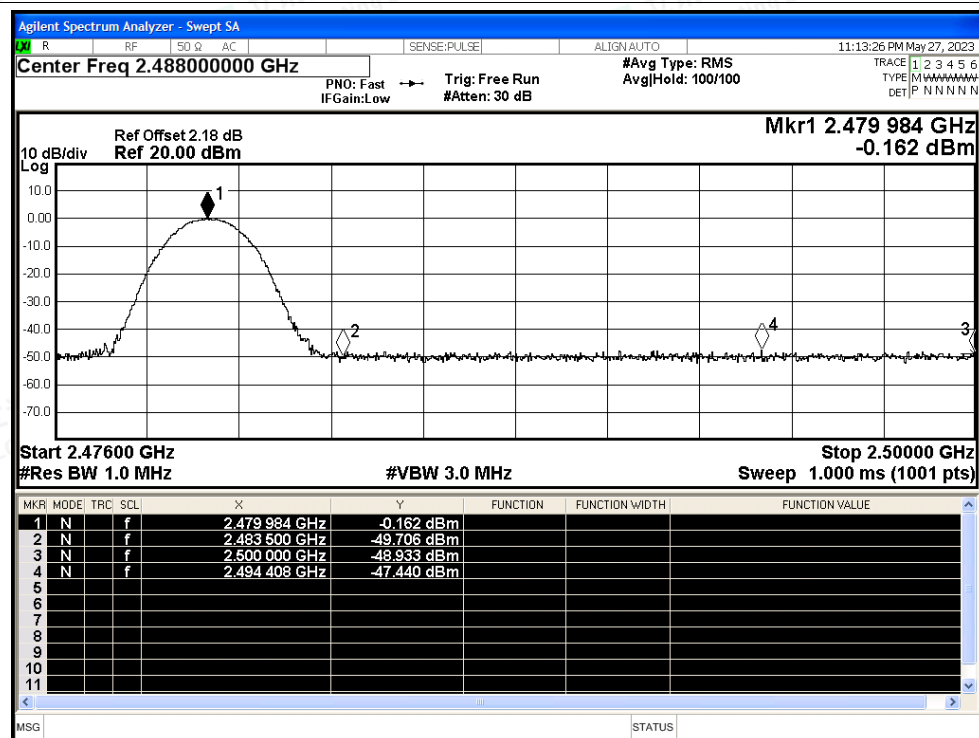
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average







Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average

