



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: V40072W TWS Earbuds with Charging Case

Test Model: V40072W

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>monkey.Li</i> Monkey Li
Supervised by:	<i>Ling.Zhu</i> Ling Zhu





A.1 -20dB Bandwidth

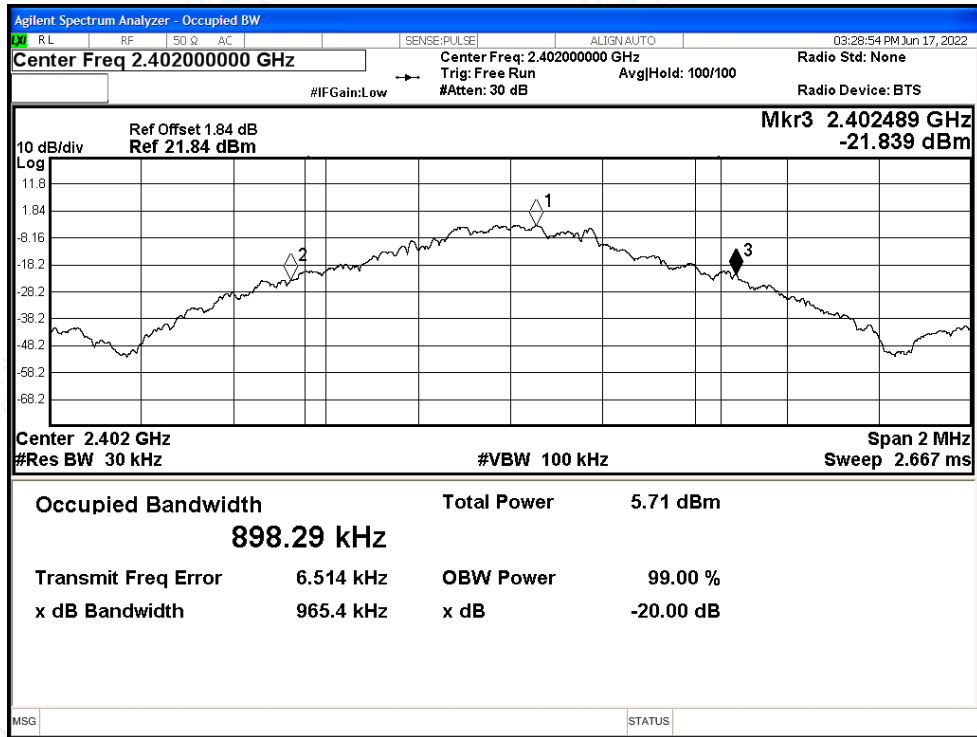
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.965	NA	Pass
NVNT	1-DH5	2441	Ant1	0.978	NA	Pass
NVNT	1-DH5	2480	Ant1	0.96	NA	Pass
NVNT	2-DH5	2402	Ant1	1.316	NA	Pass
NVNT	2-DH5	2441	Ant1	1.282	NA	Pass
NVNT	2-DH5	2480	Ant1	1.307	NA	Pass
NVNT	3-DH5	2402	Ant1	1.286	NA	Pass
NVNT	3-DH5	2441	Ant1	1.281	NA	Pass
NVNT	3-DH5	2480	Ant1	1.309	NA	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

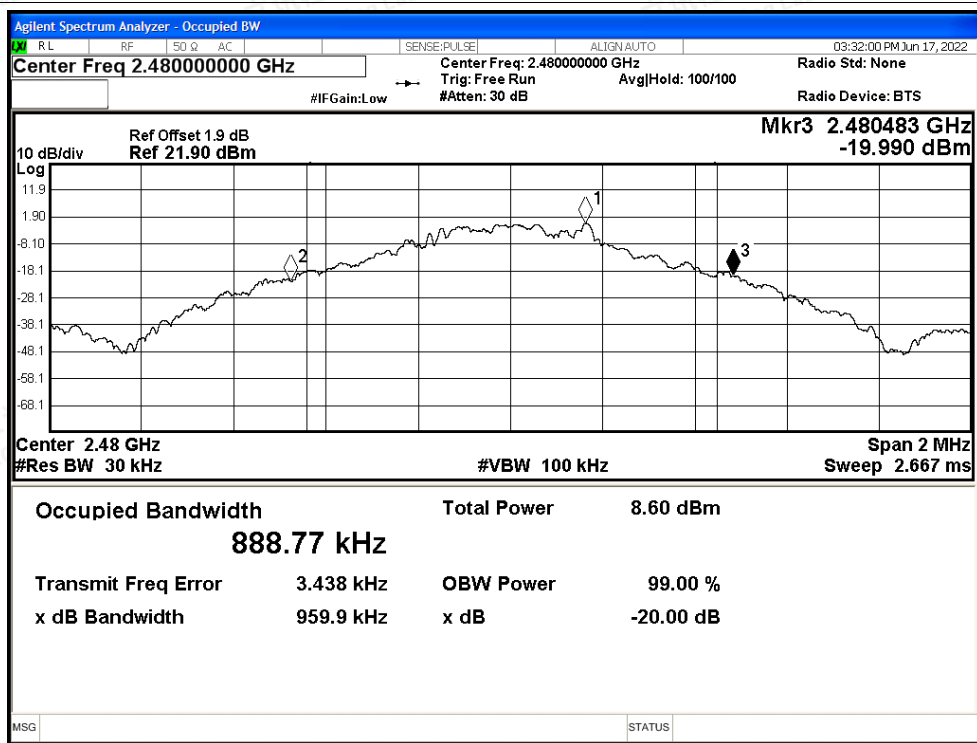


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

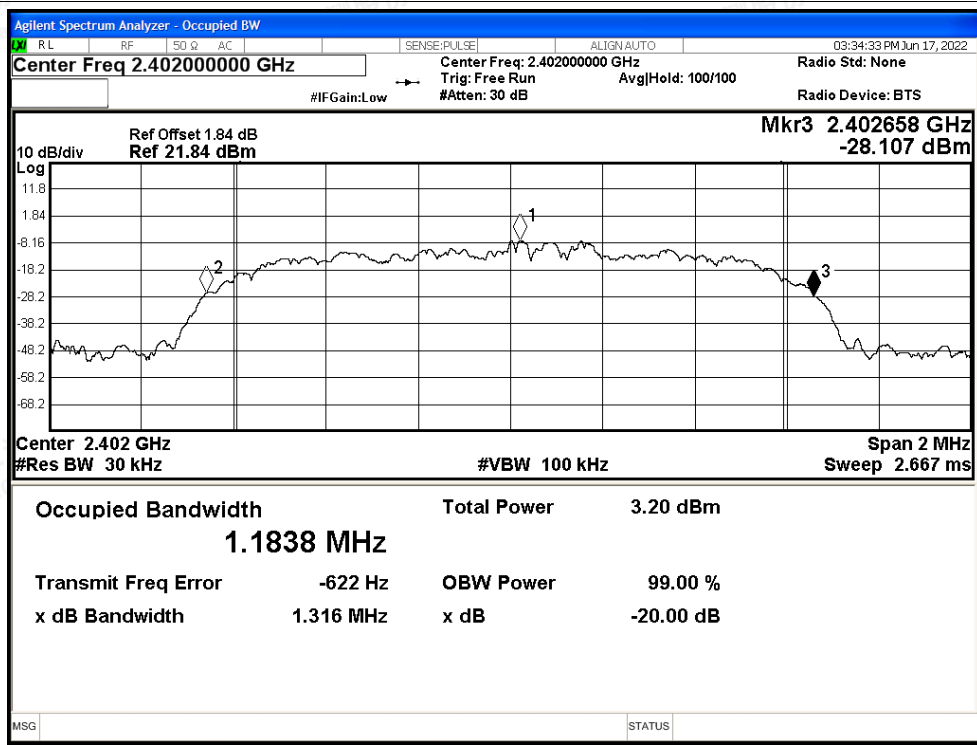




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

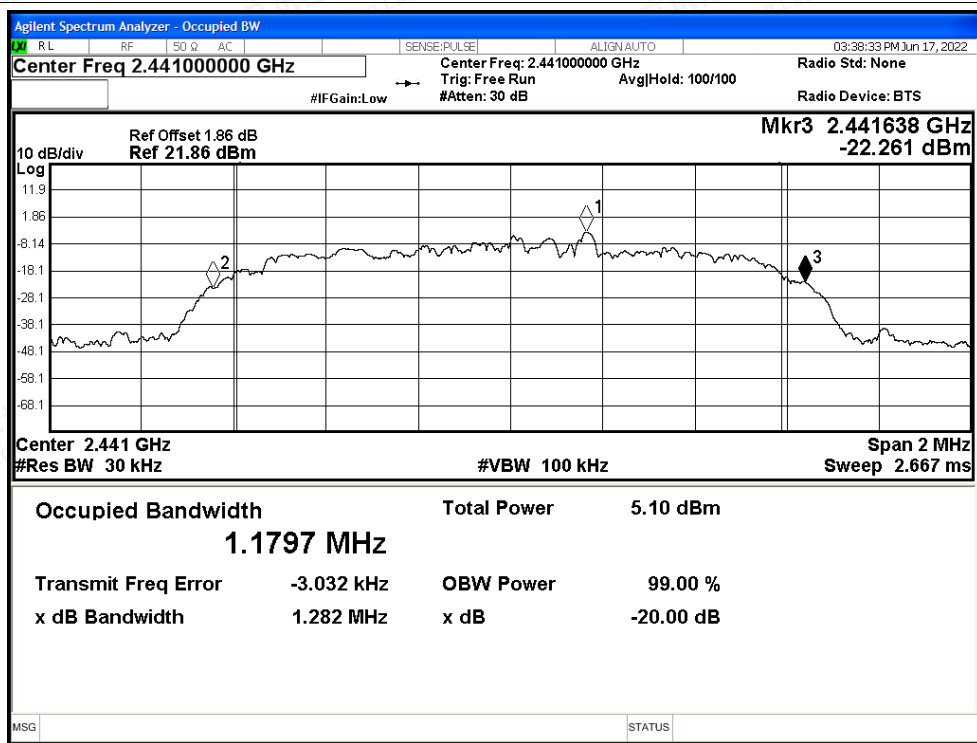


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

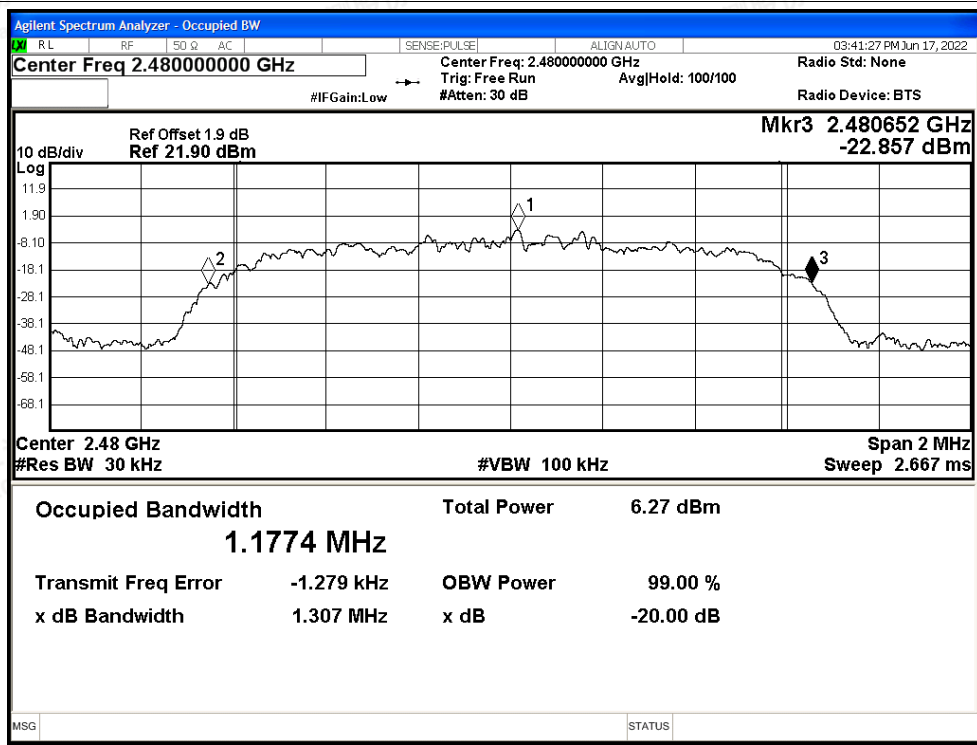




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

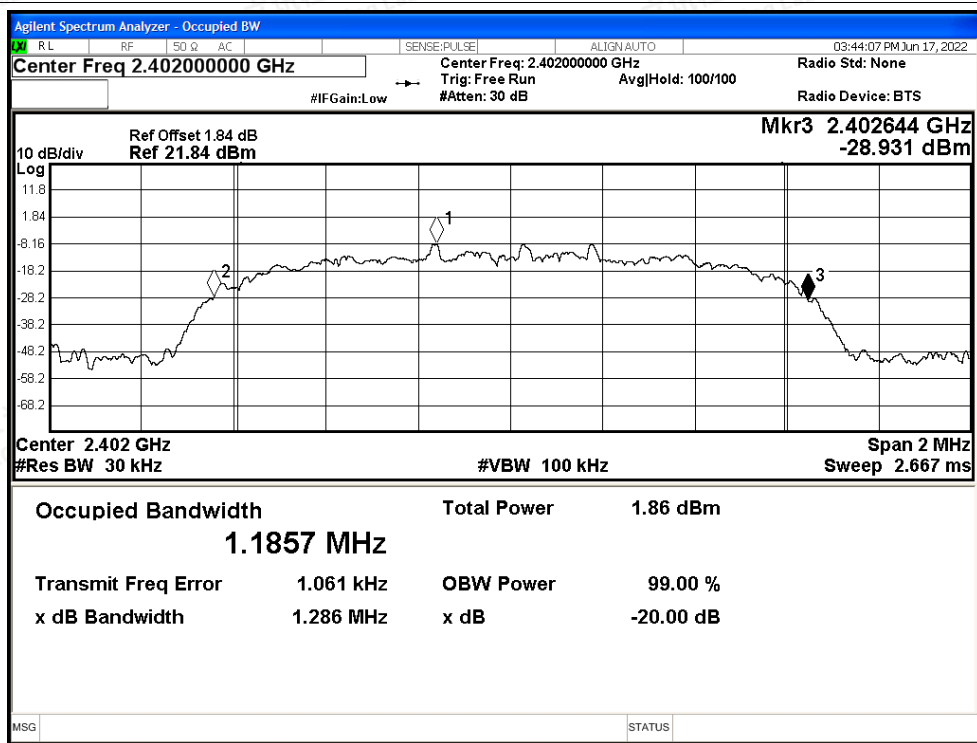


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

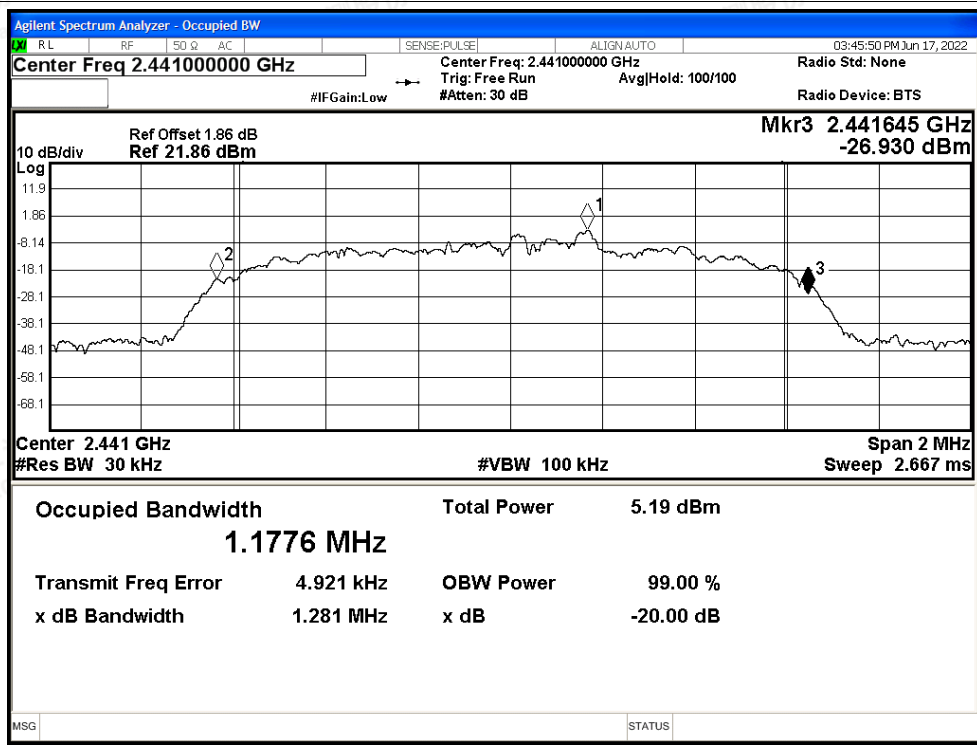




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

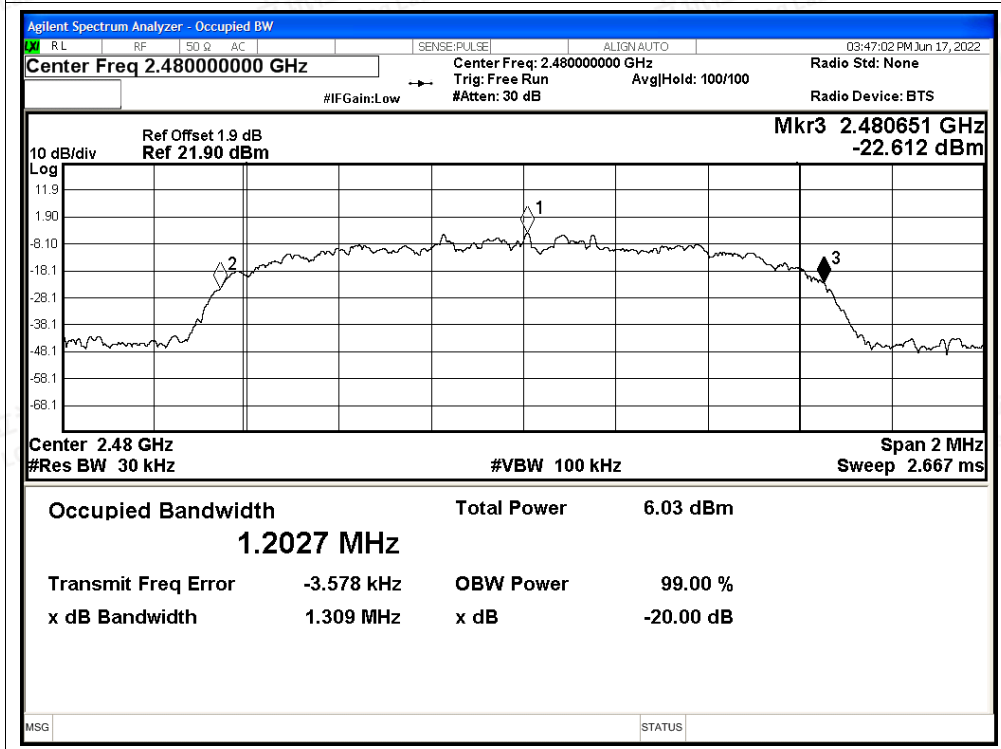


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

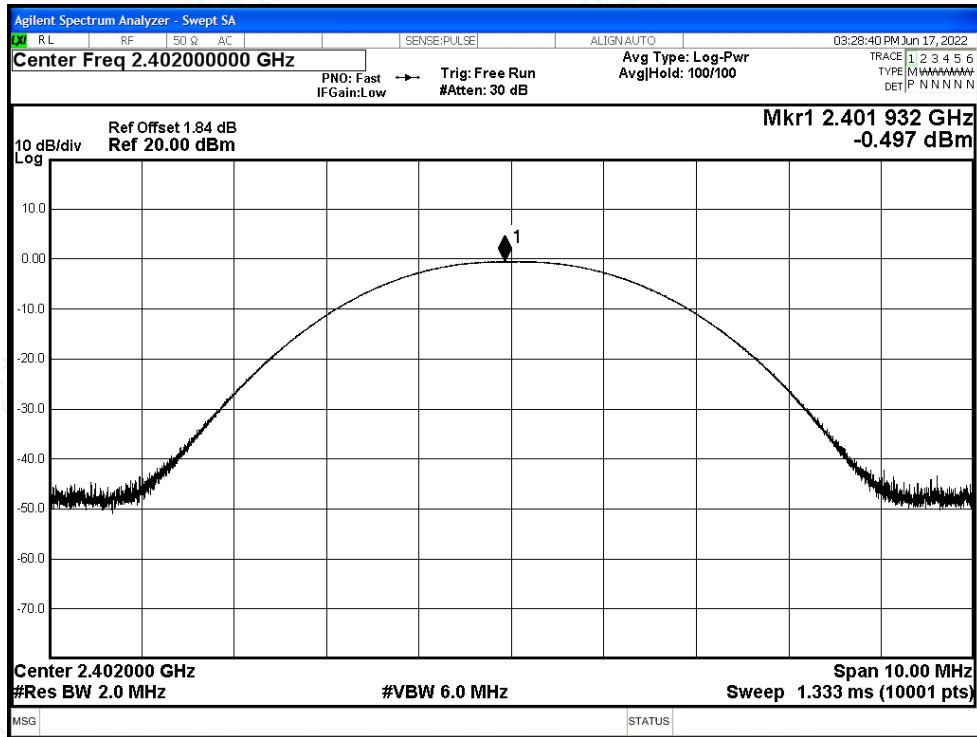
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.5	0	-0.5	21	Pass
NVNT	1-DH5	2441	Ant1	0.77	0	0.77	21	Pass
NVNT	1-DH5	2480	Ant1	2.03	0	2.03	21	Pass
NVNT	2-DH5	2402	Ant1	-1.44	0	-1.44	21	Pass
NVNT	2-DH5	2441	Ant1	0.03	0	0.03	21	Pass
NVNT	2-DH5	2480	Ant1	1.54	0	1.54	21	Pass
NVNT	3-DH5	2402	Ant1	-2.45	0	-2.45	21	Pass
NVNT	3-DH5	2441	Ant1	0.01	0	0.01	21	Pass
NVNT	3-DH5	2480	Ant1	1.58	0	1.58	21	Pass



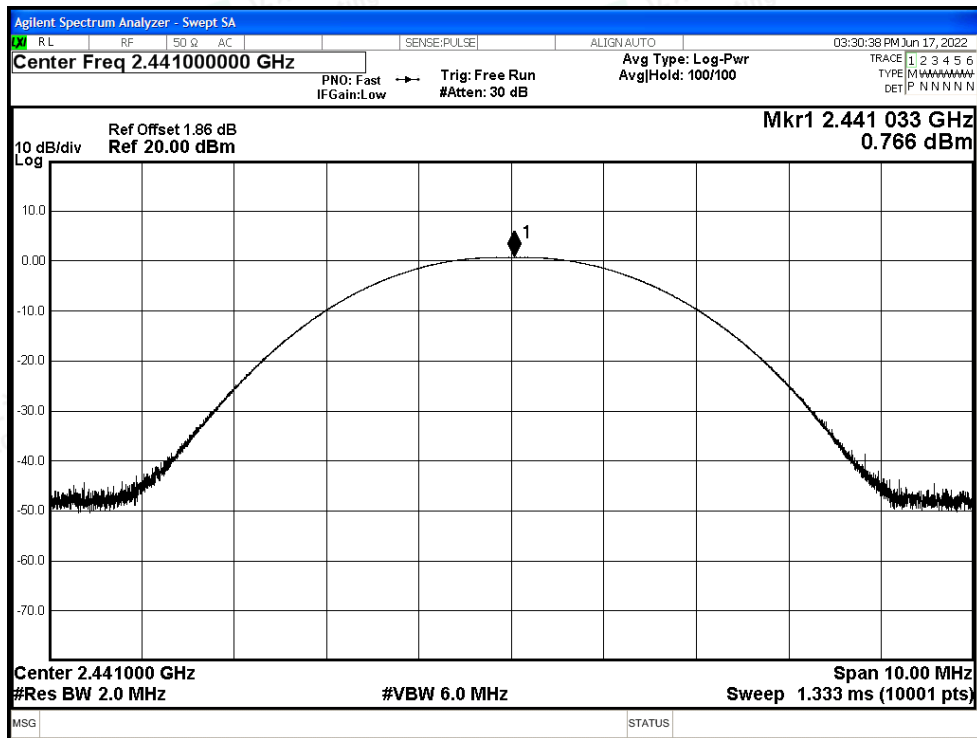


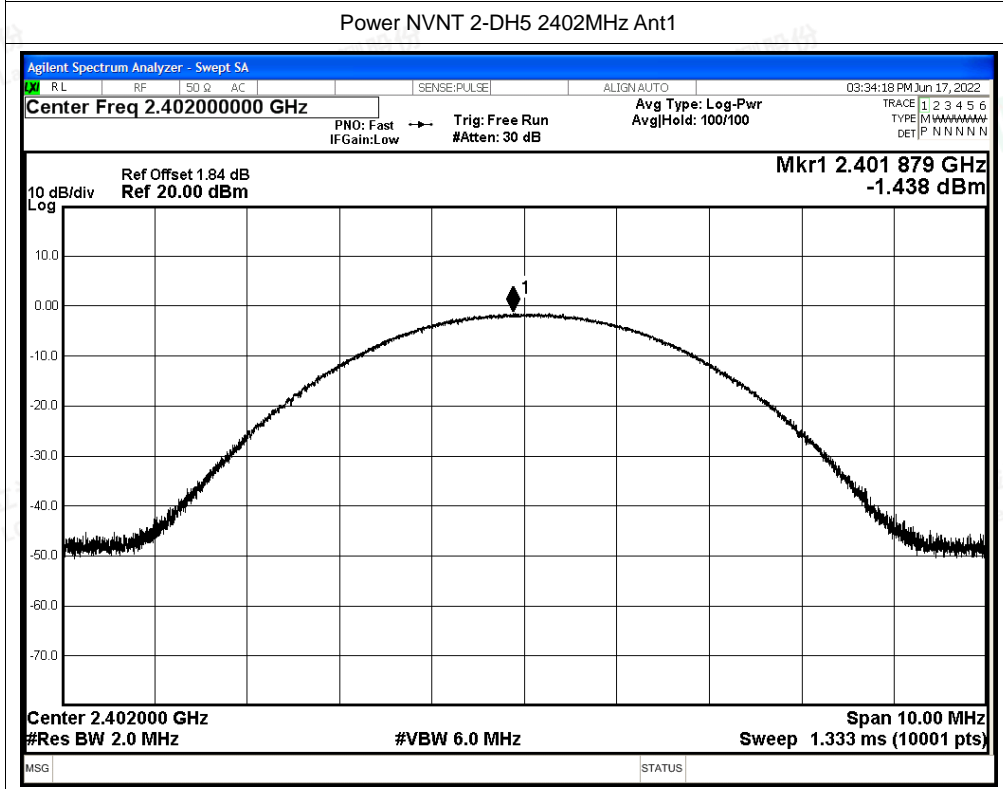
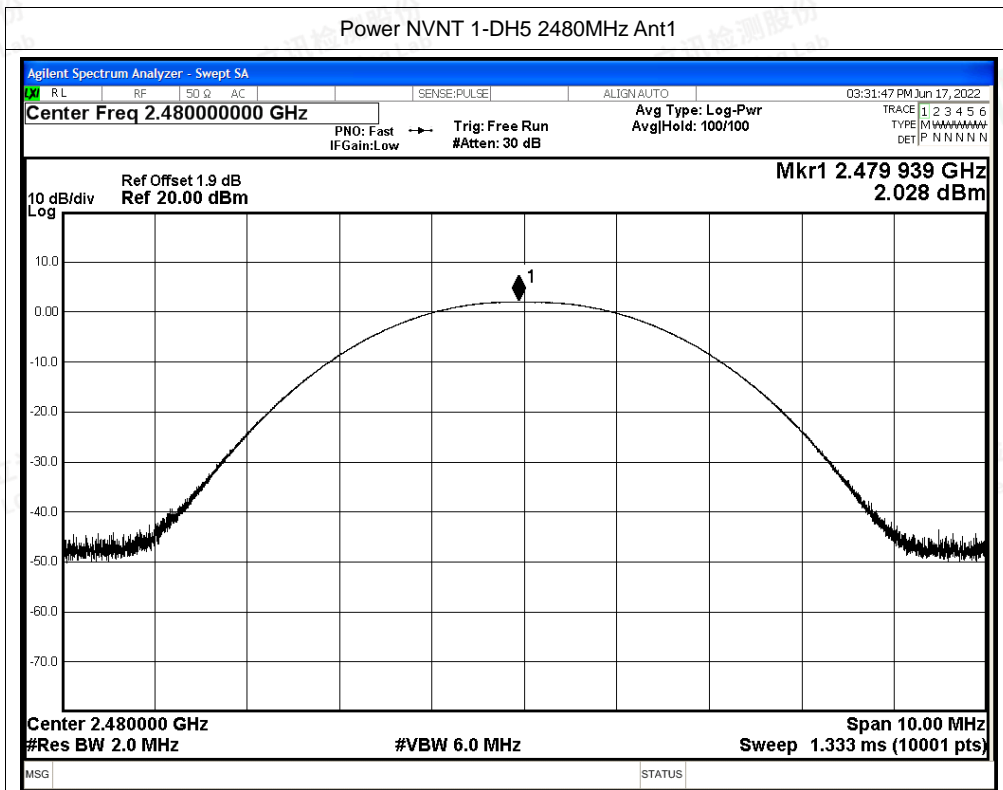
Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



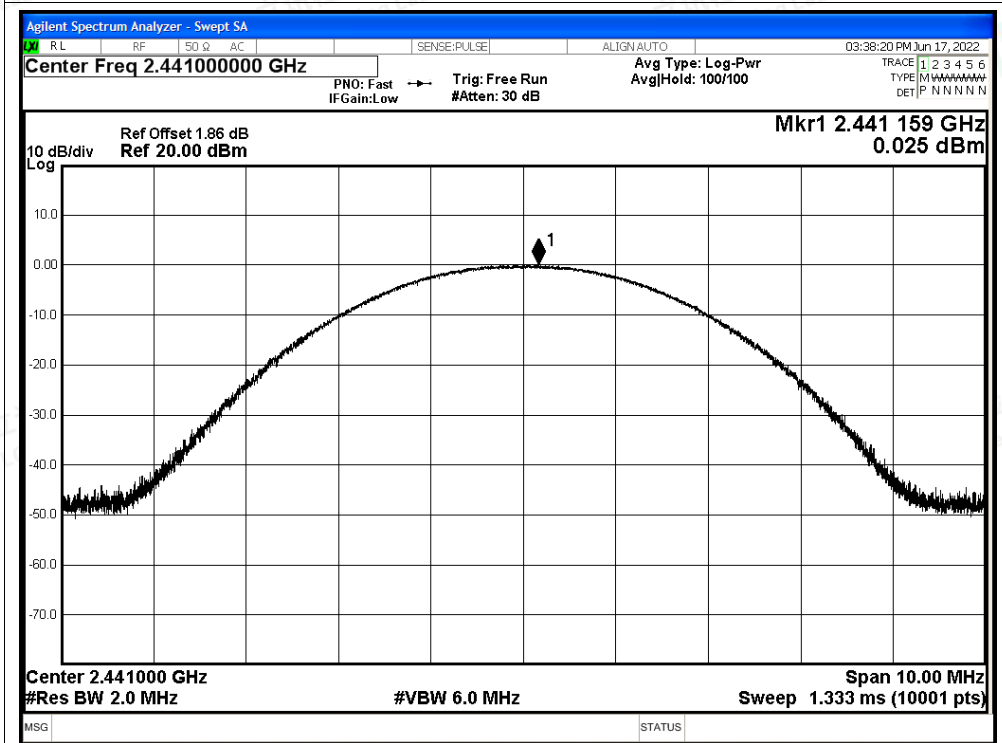
Power NVNT 1-DH5 2441MHz Ant1



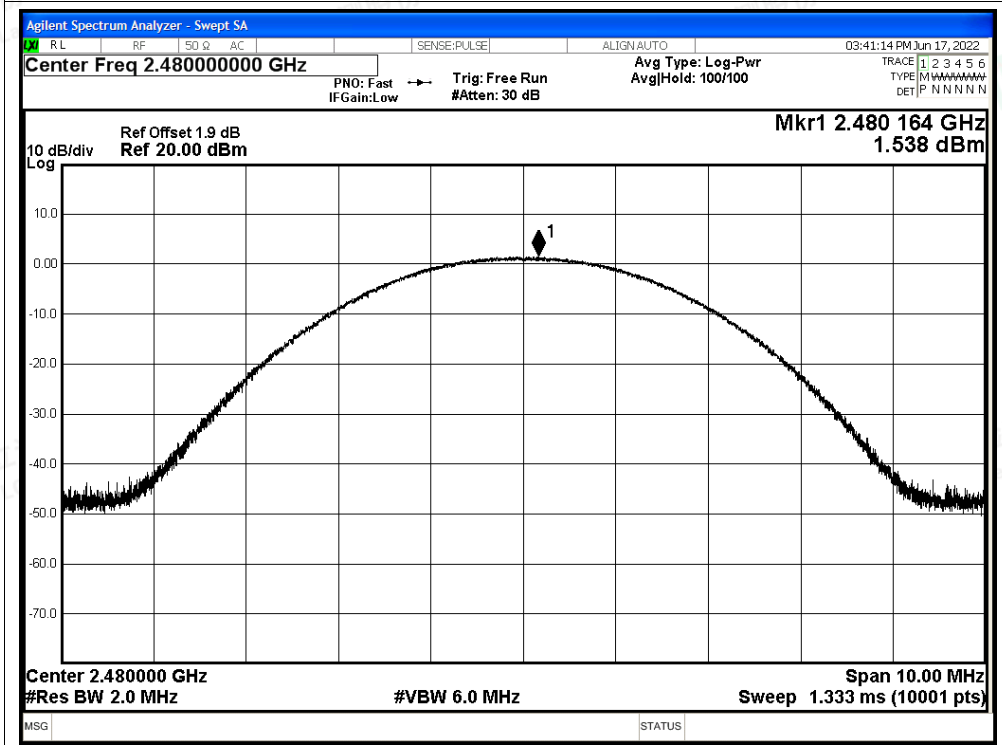




Power NVNT 2-DH5 2441MHz Ant1

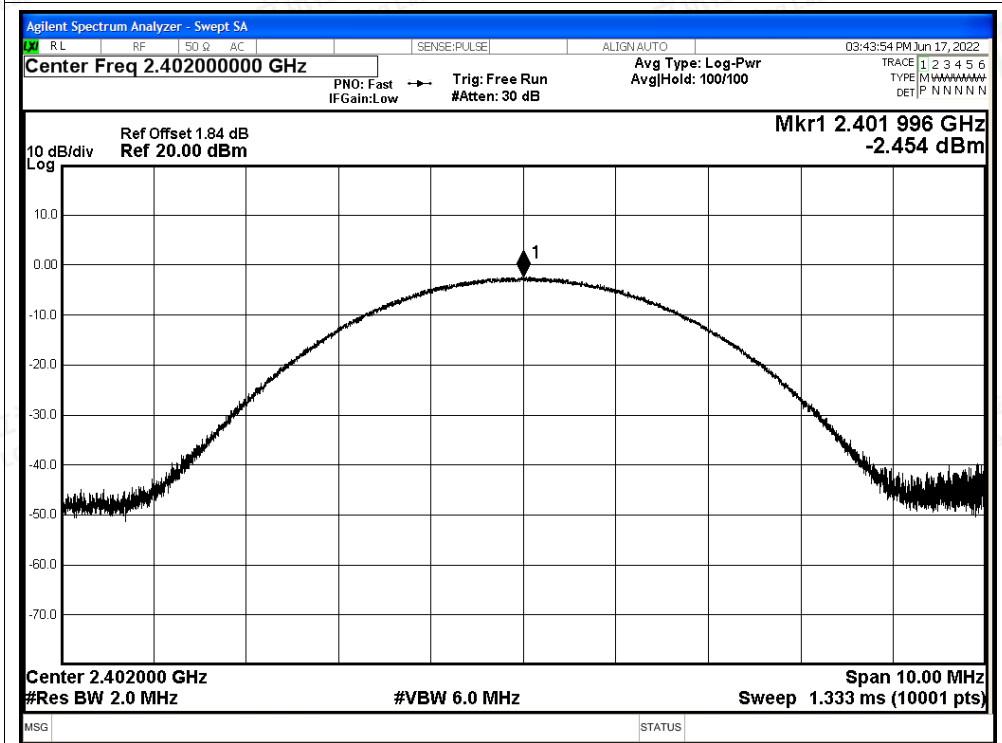


Power NVNT 2-DH5 2480MHz Ant1

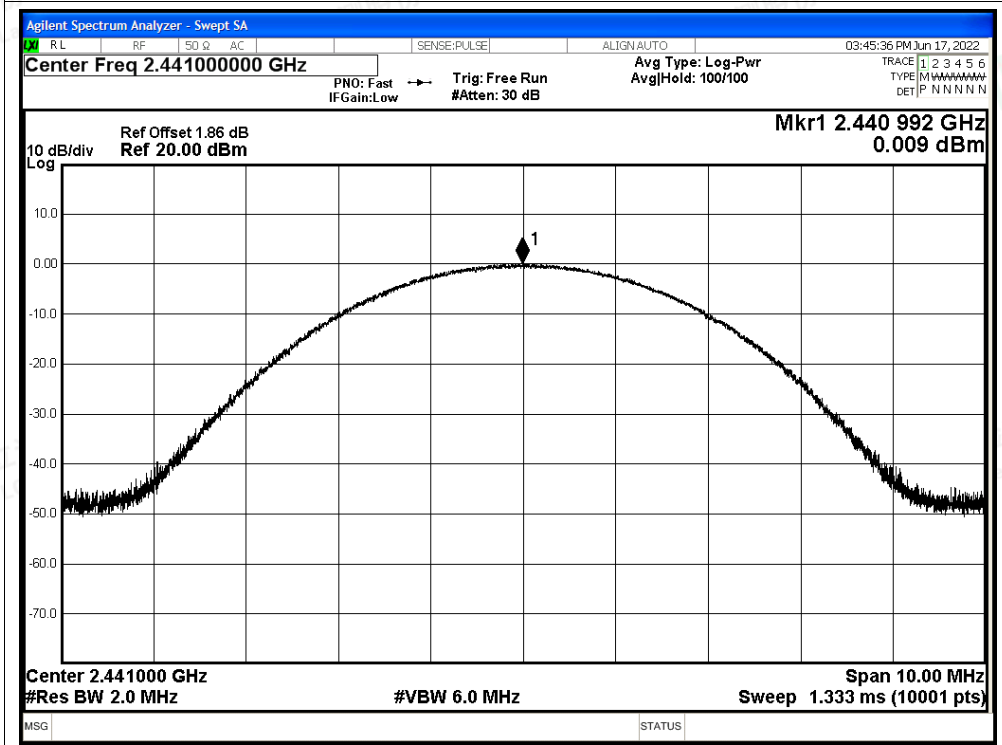


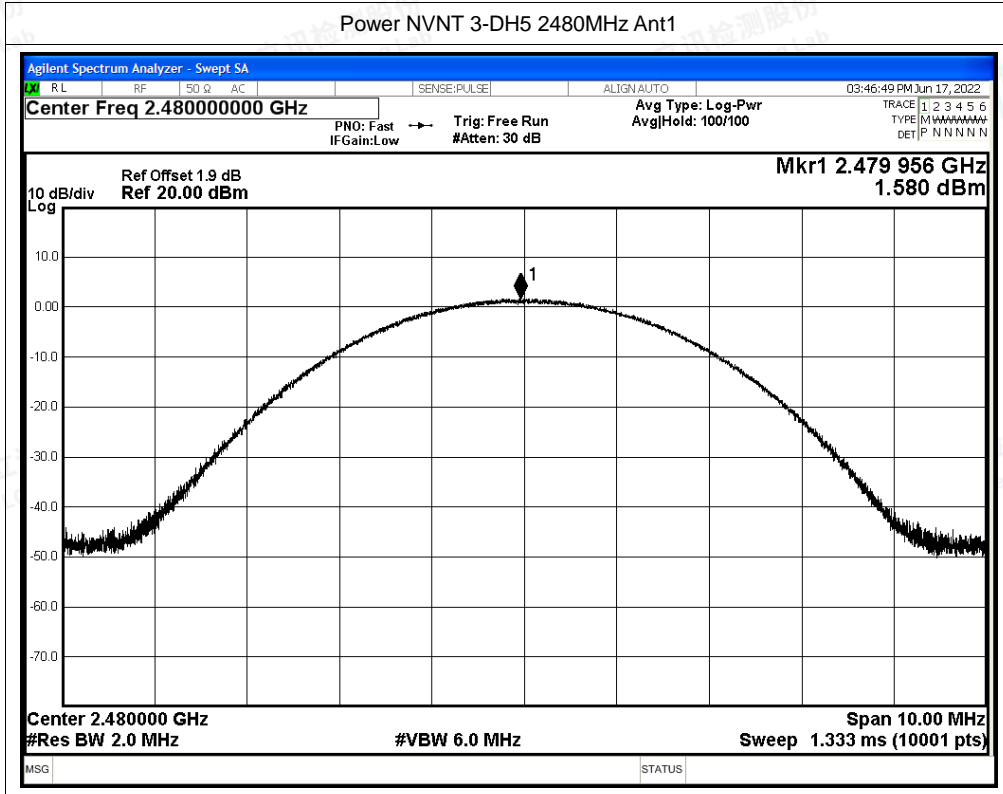


Power NVNT 3-DH5 2402MHz Ant1



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	2402.018	2402.974	0.956	0.643	Pass
NVNT	2-DH5	Ant1	2401.87	2403.174	1.304	0.877	Pass
NVNT	3-DH5	Ant1	2402.158	2403.162	1.004	0.857	Pass

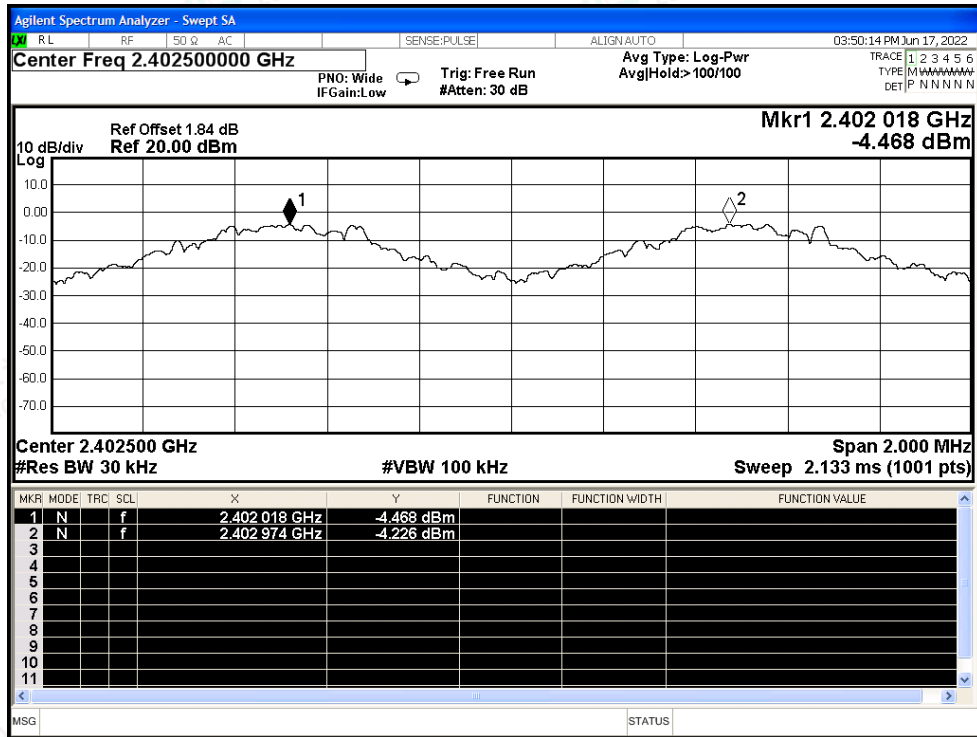


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

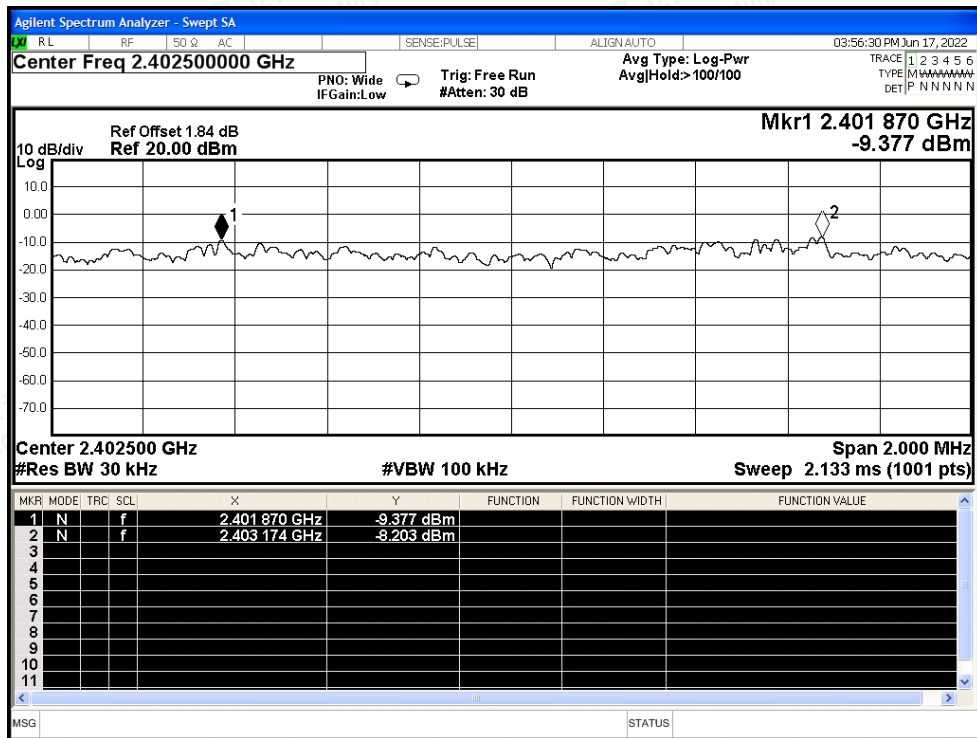


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

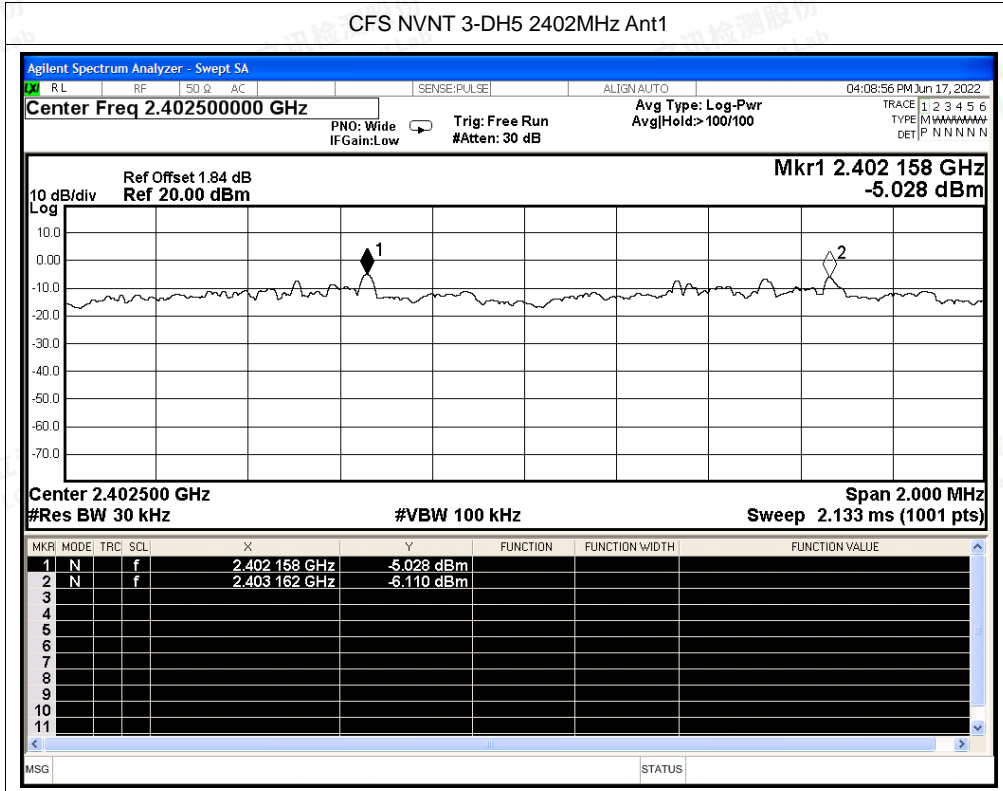


CFS NVNT 2-DH5 2402MHz Ant1





CFS NVNT 3-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	296.846	103	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.882	317.02	110	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.882	328.548	114	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	300.04	104	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.88	305.28	106	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.885	326.005	113	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	349.206	121	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	294.474	102	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	308.909	107	31600	400	Pass

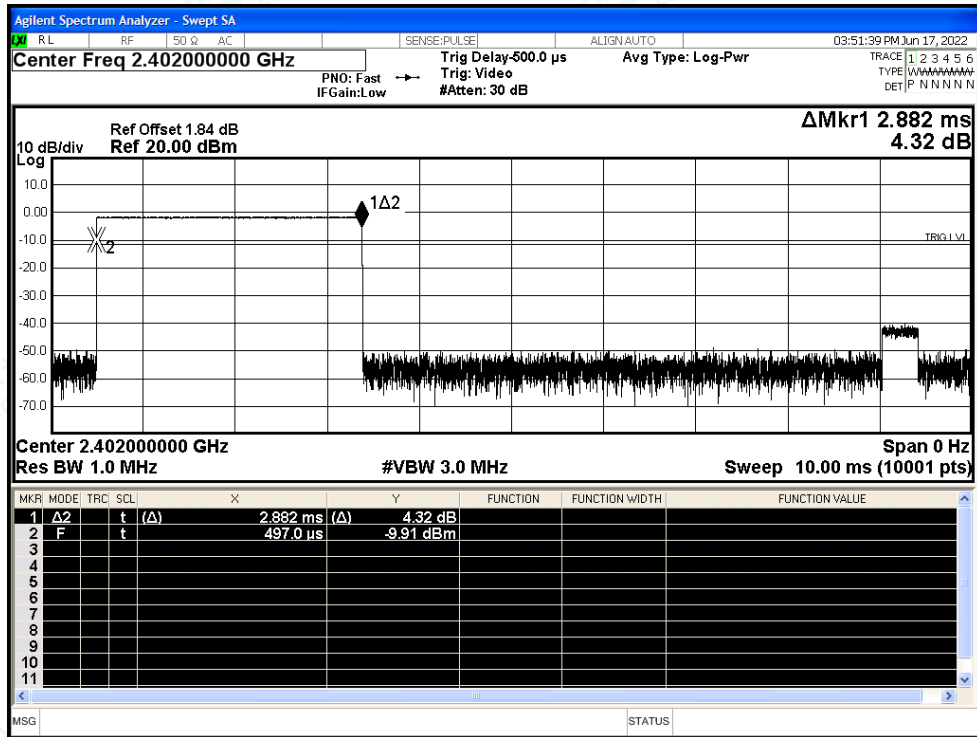


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

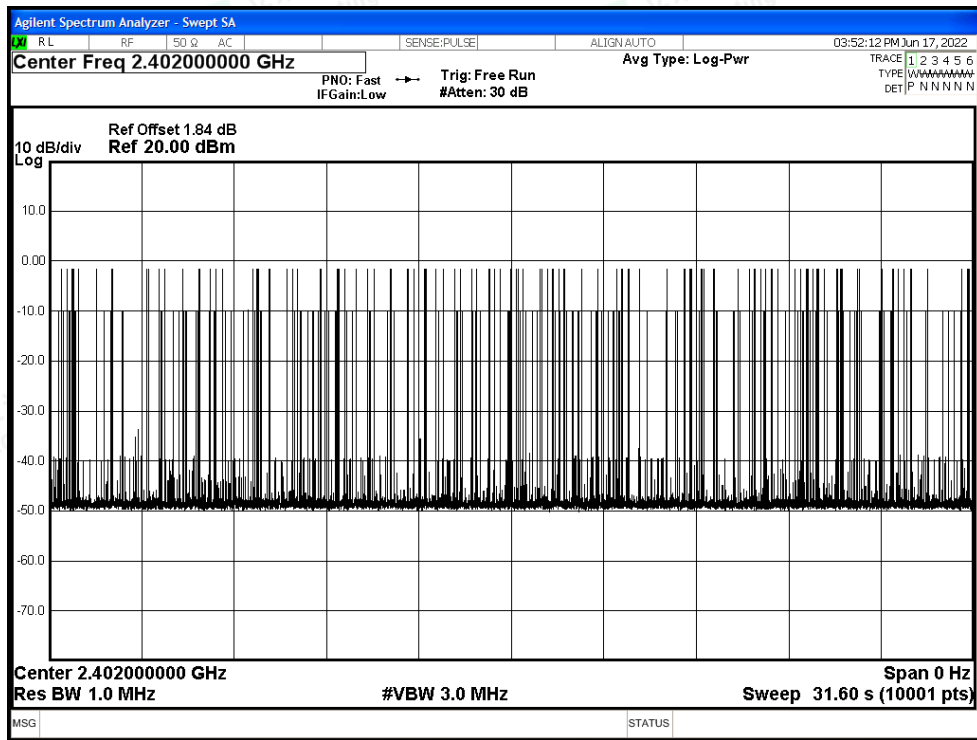


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

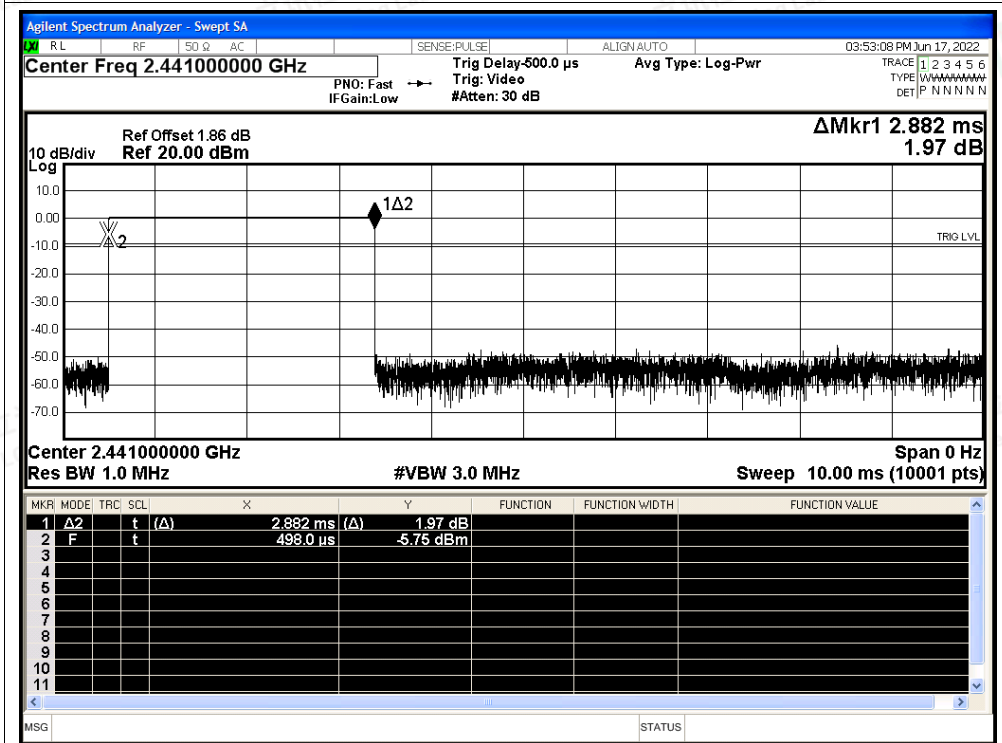


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

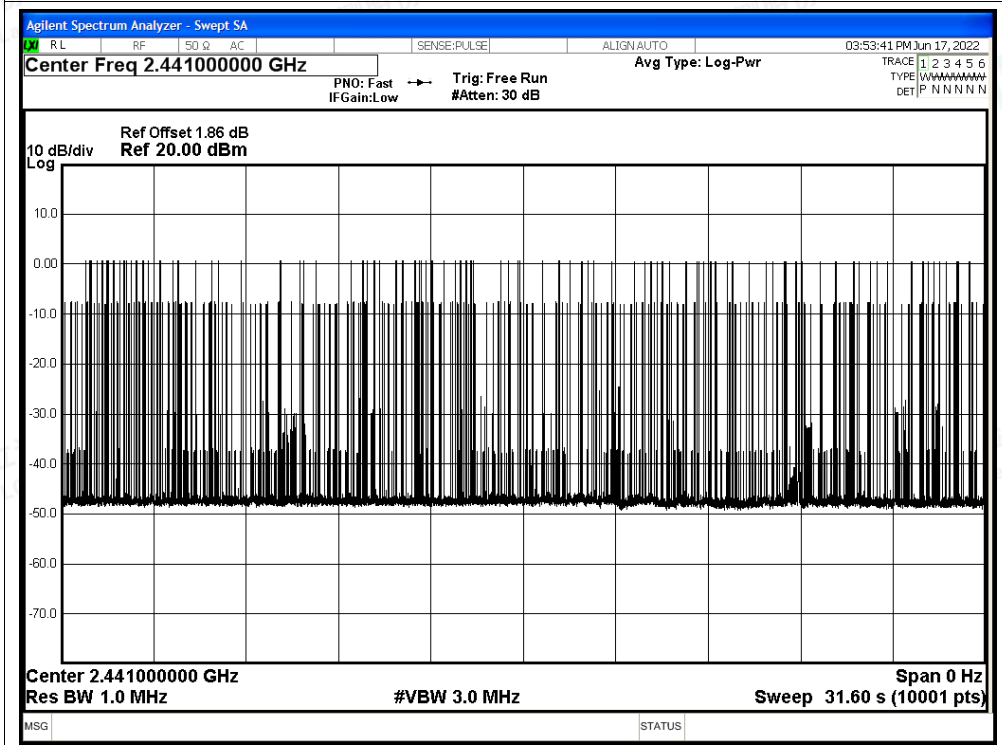




Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

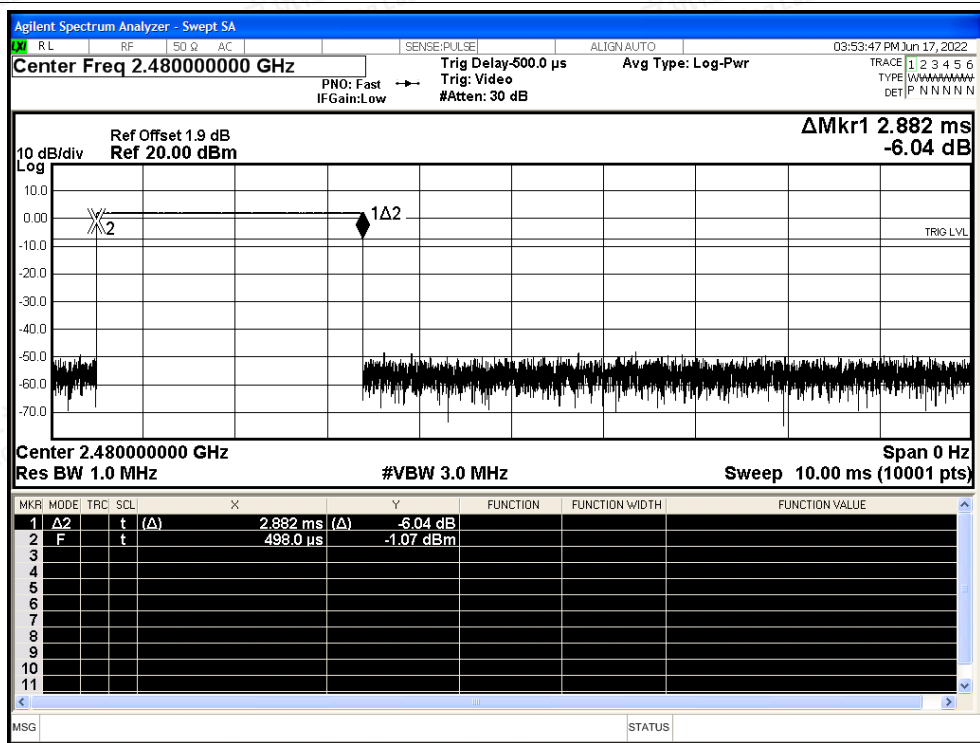


Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

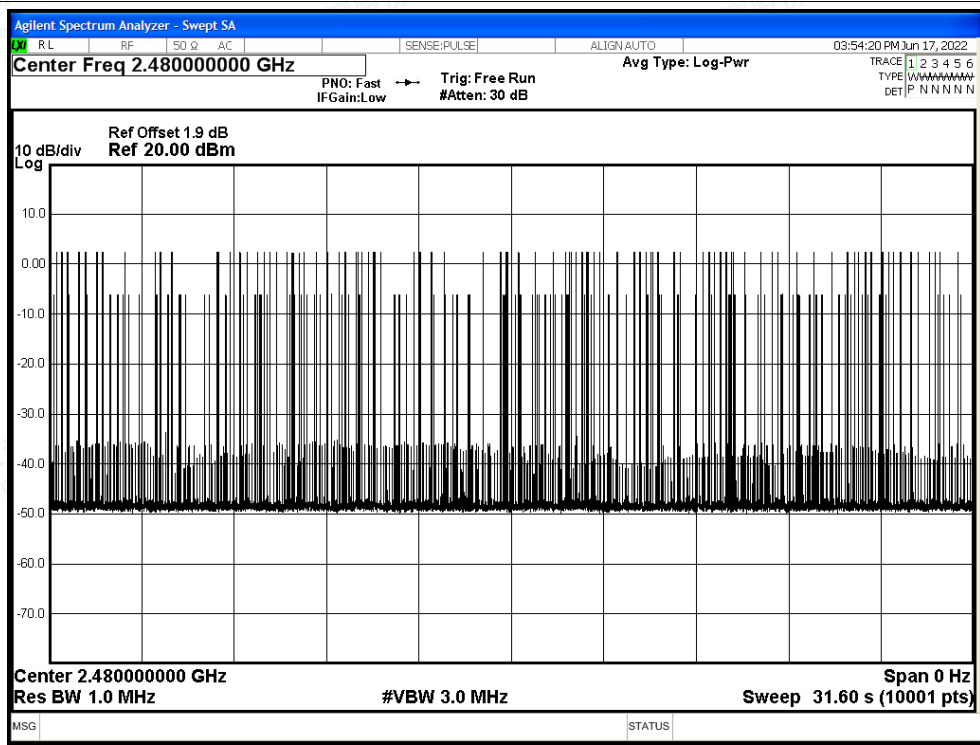




Dwell NVNT 1-DH5 2480MHz Ant1 One Burst

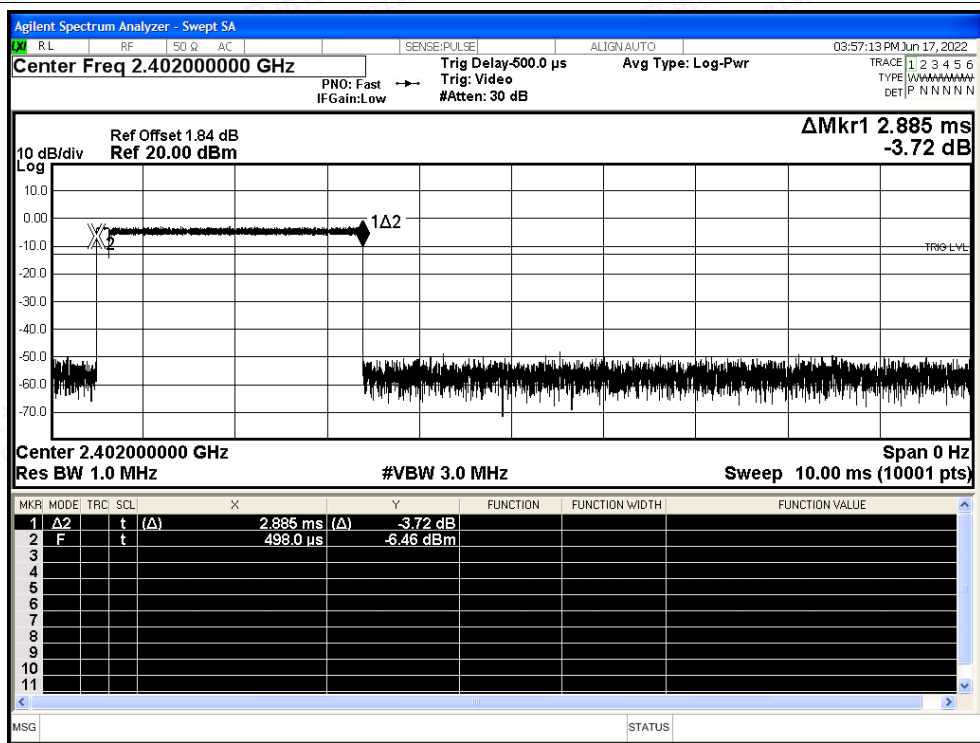


Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated

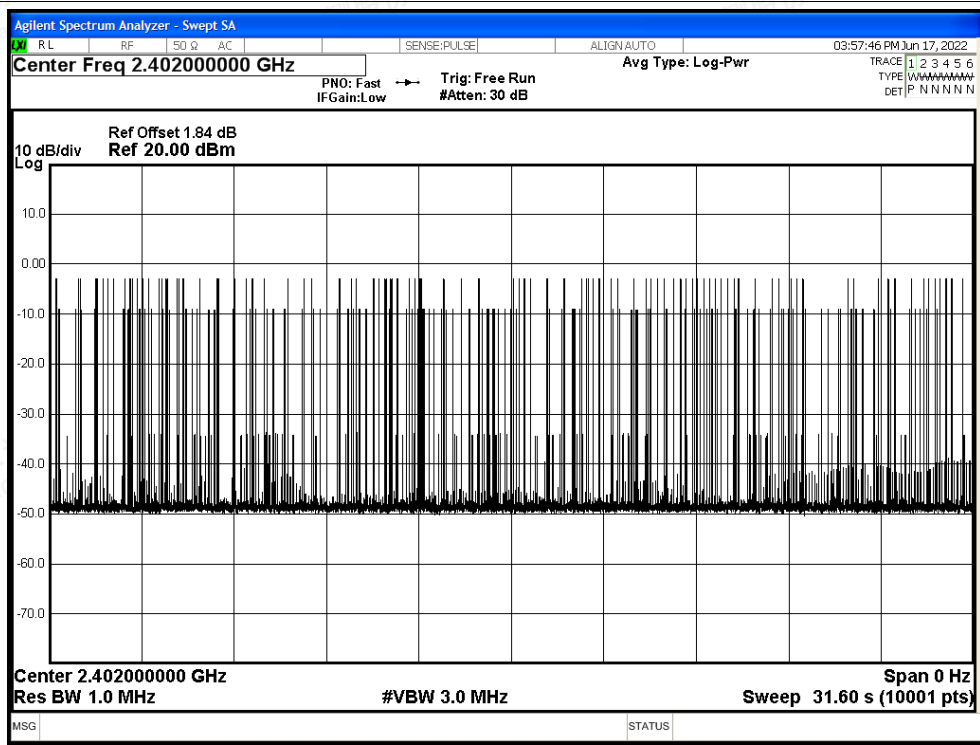




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

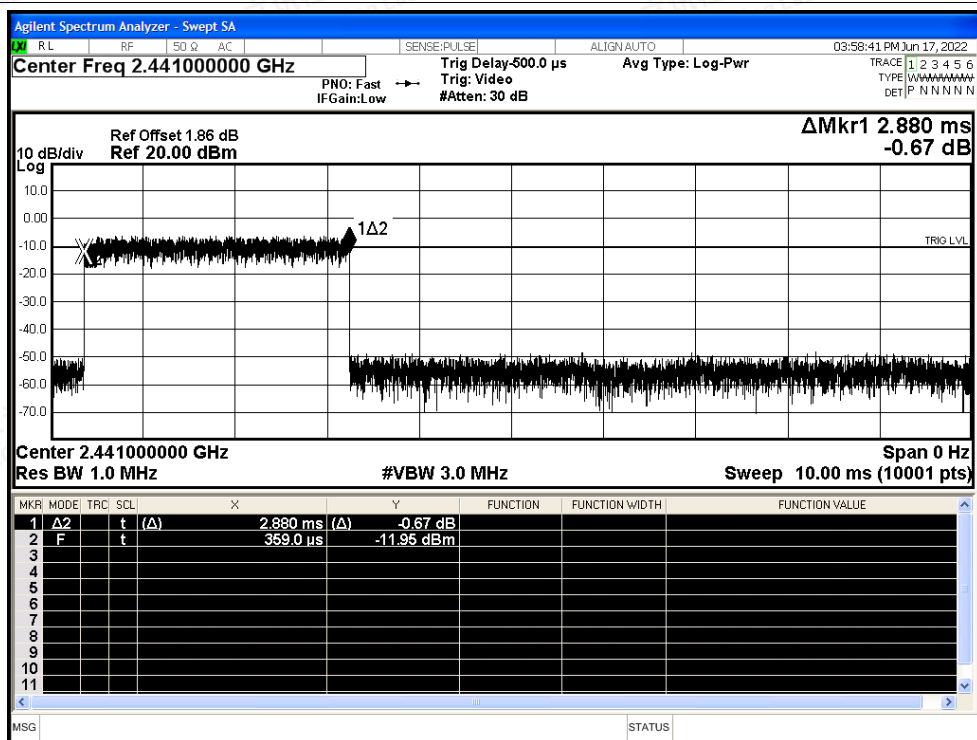


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

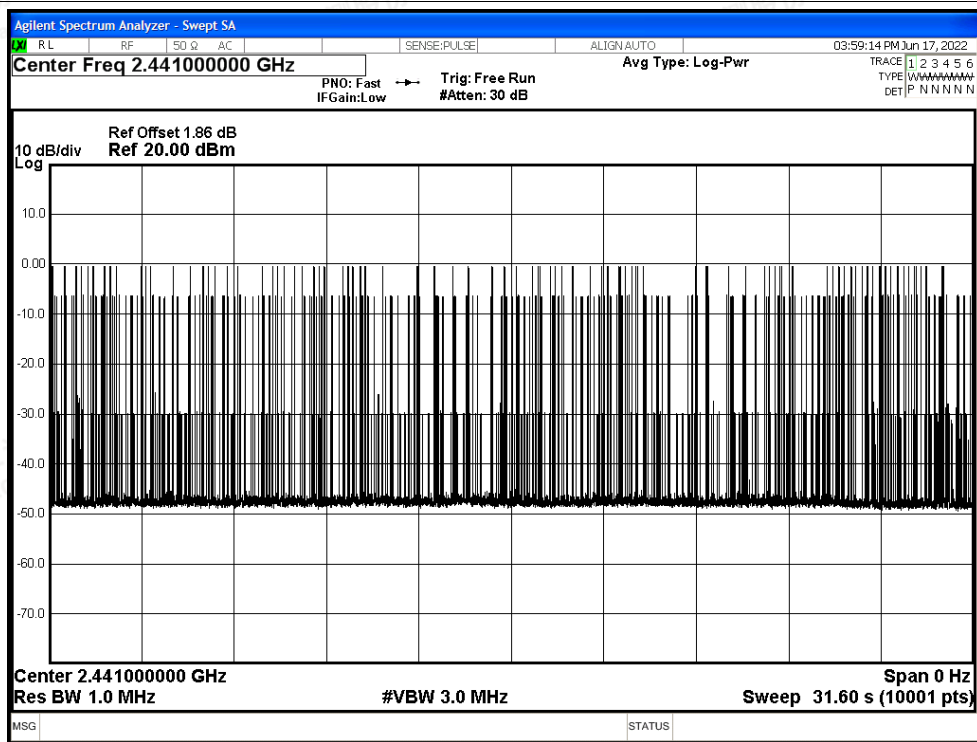




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

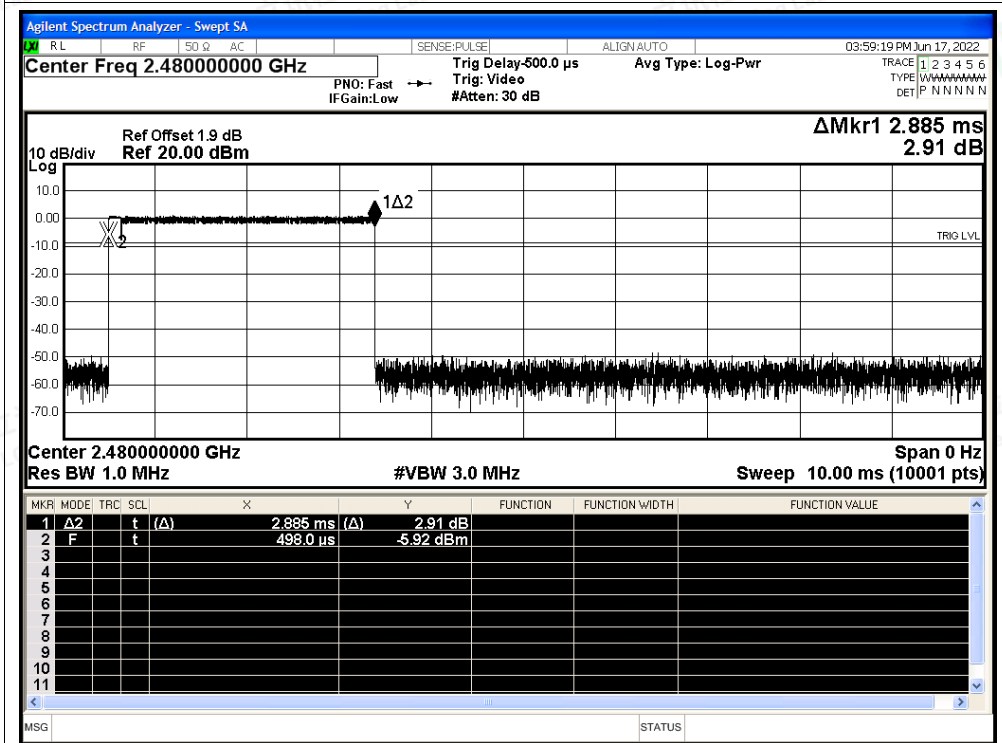


Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

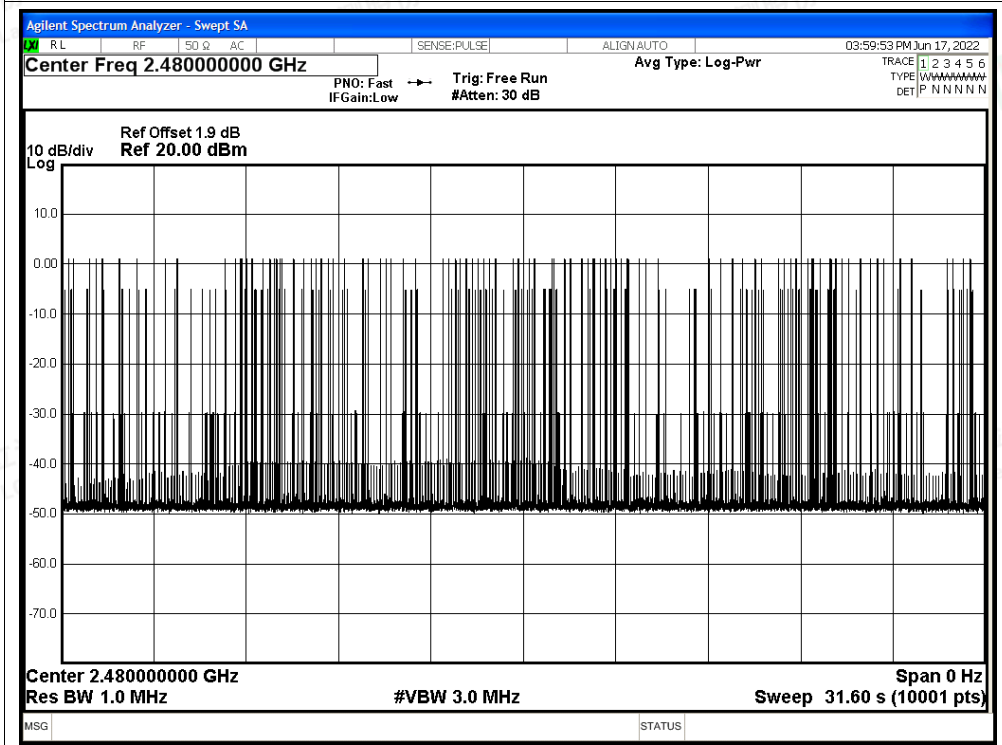




Dwell NVNT 2-DH5 2480MHz Ant1 One Burst

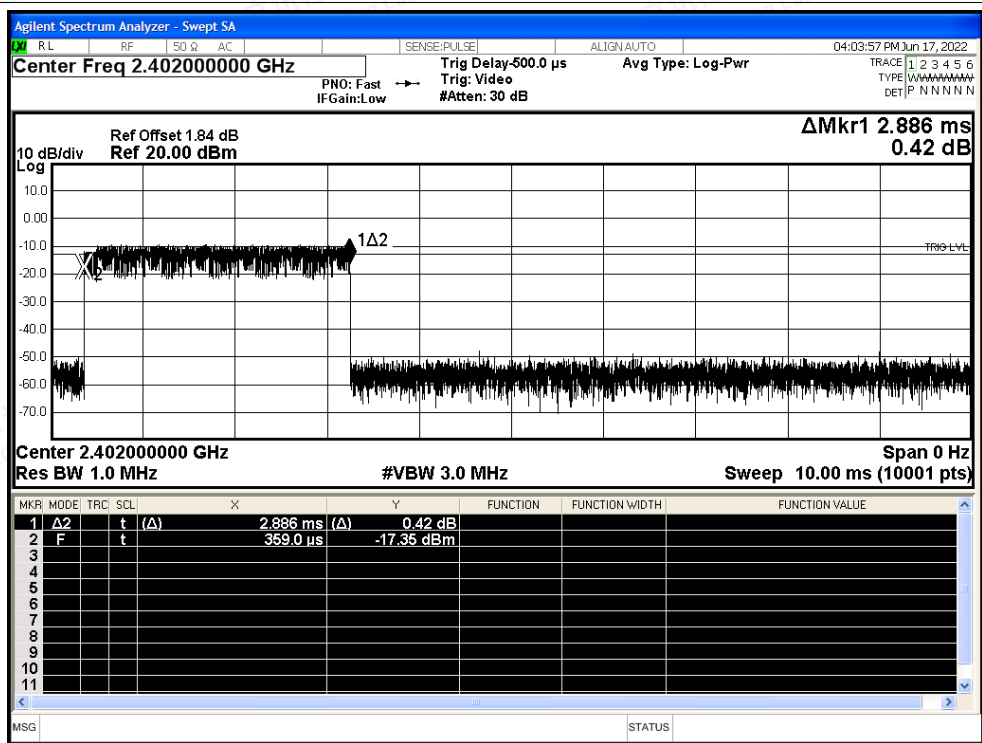


Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated

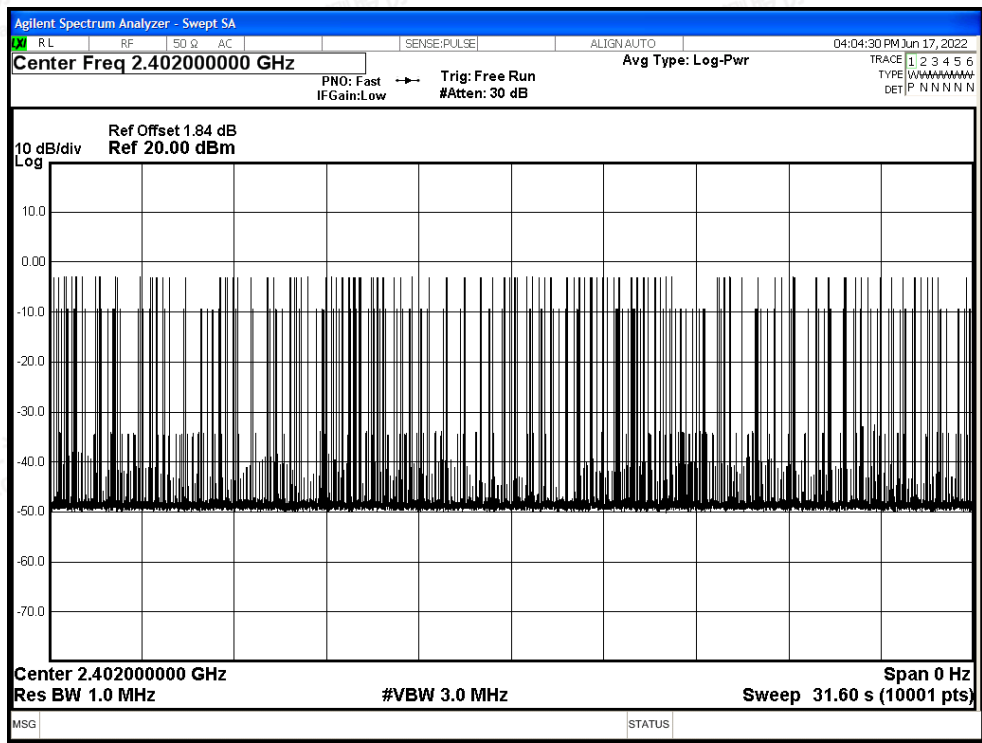




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst

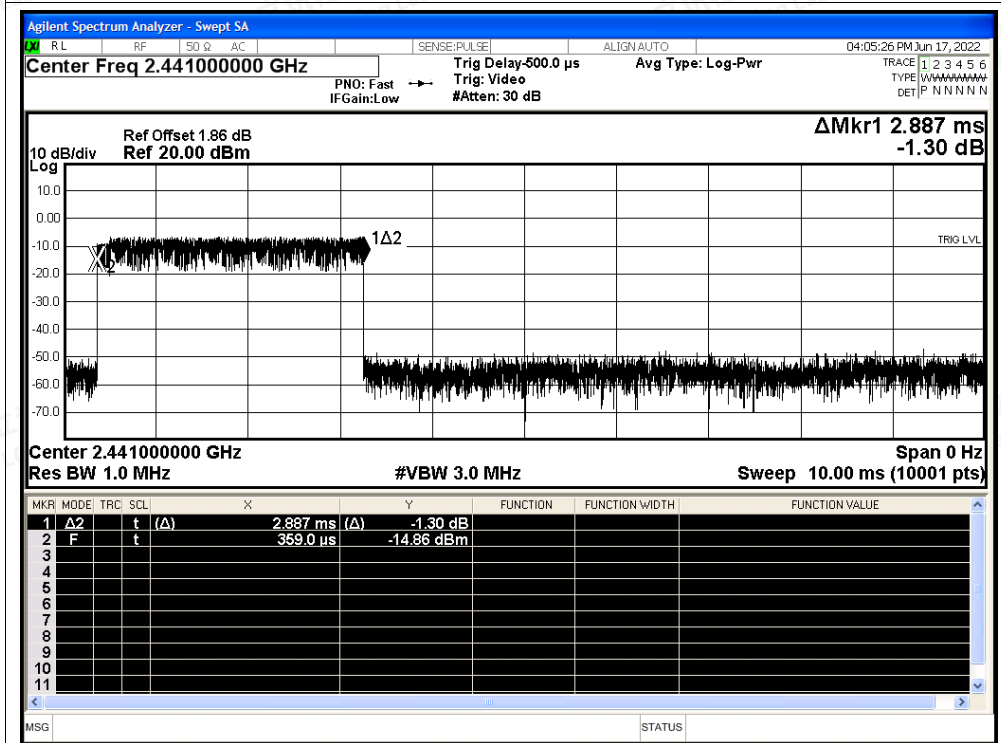


Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

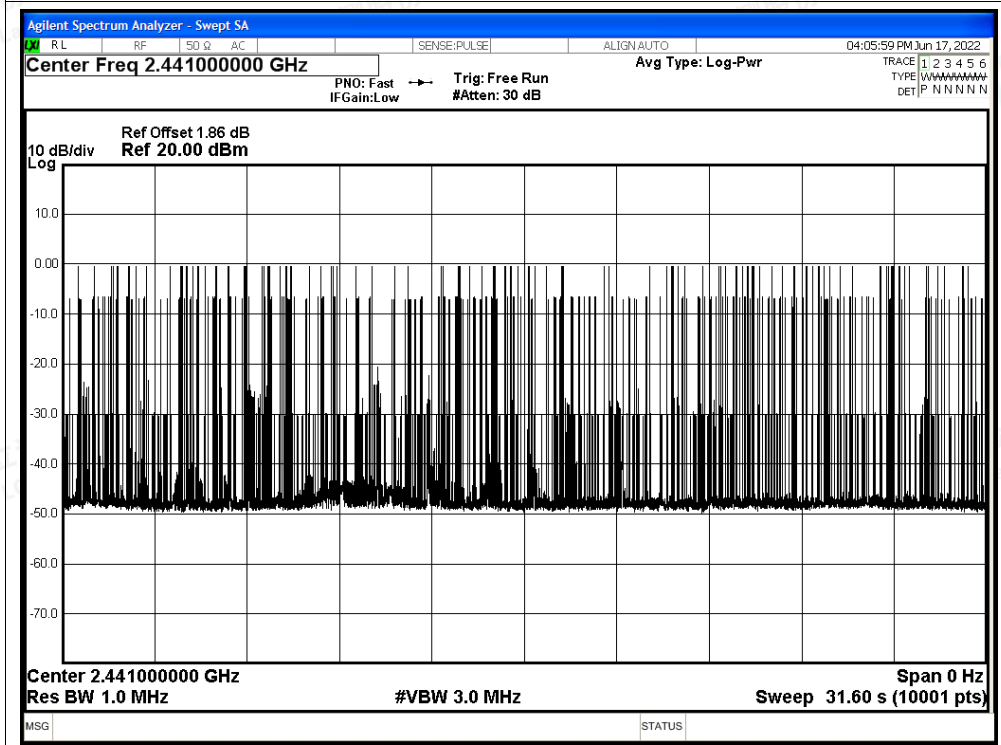




Dwell NVNT 3-DH5 2441MHz Ant1 One Burst

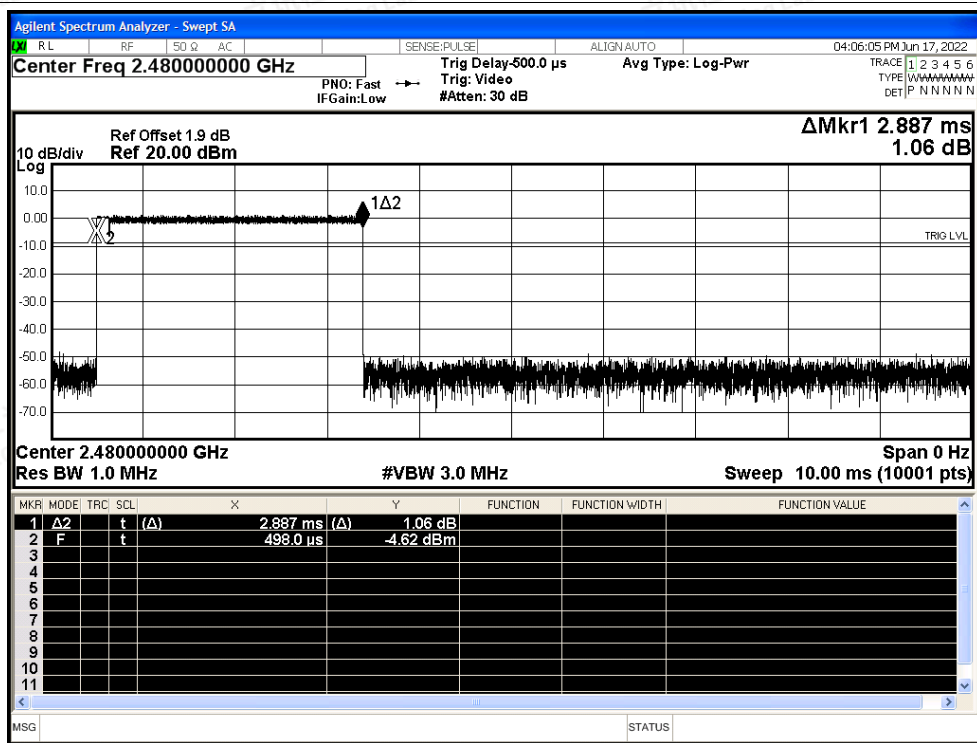


Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

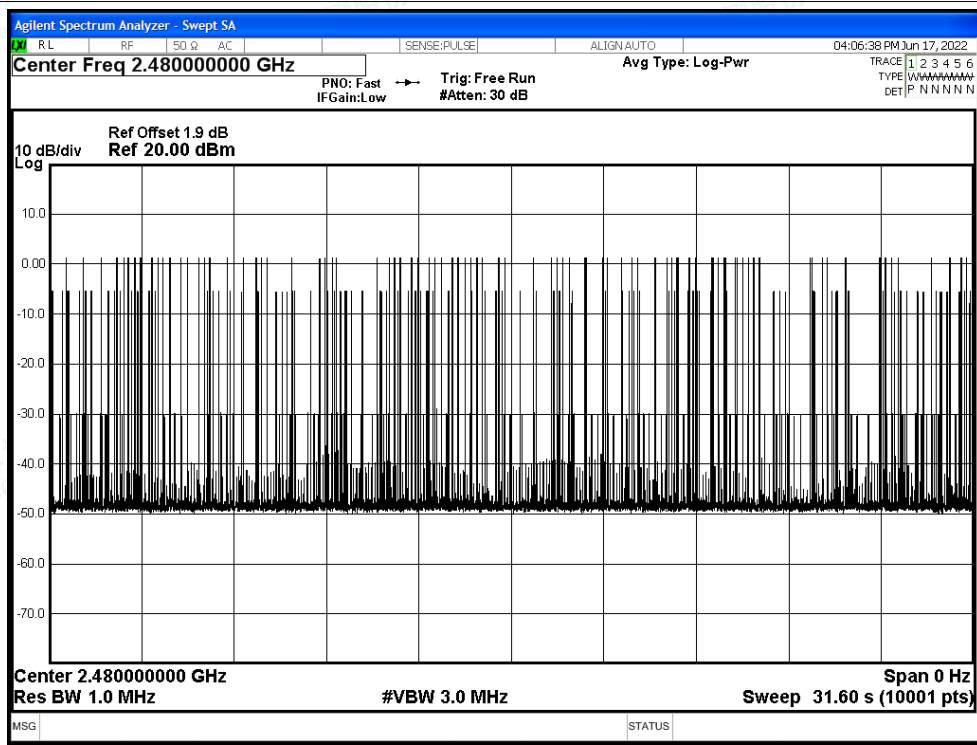




Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated





A.5 Number of Hopping Channel

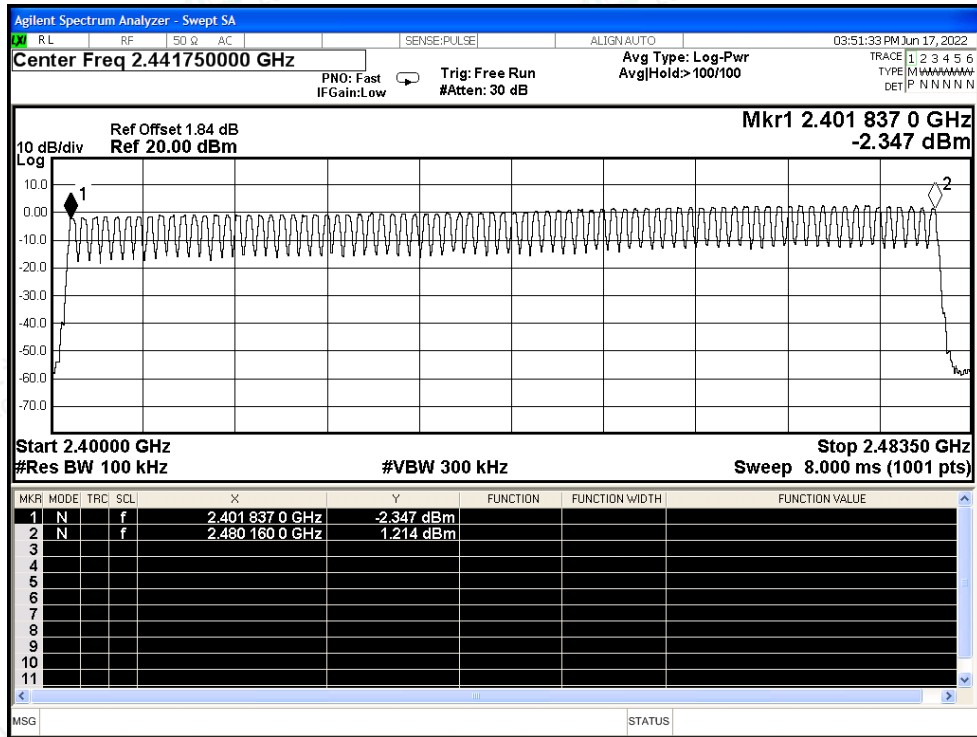
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



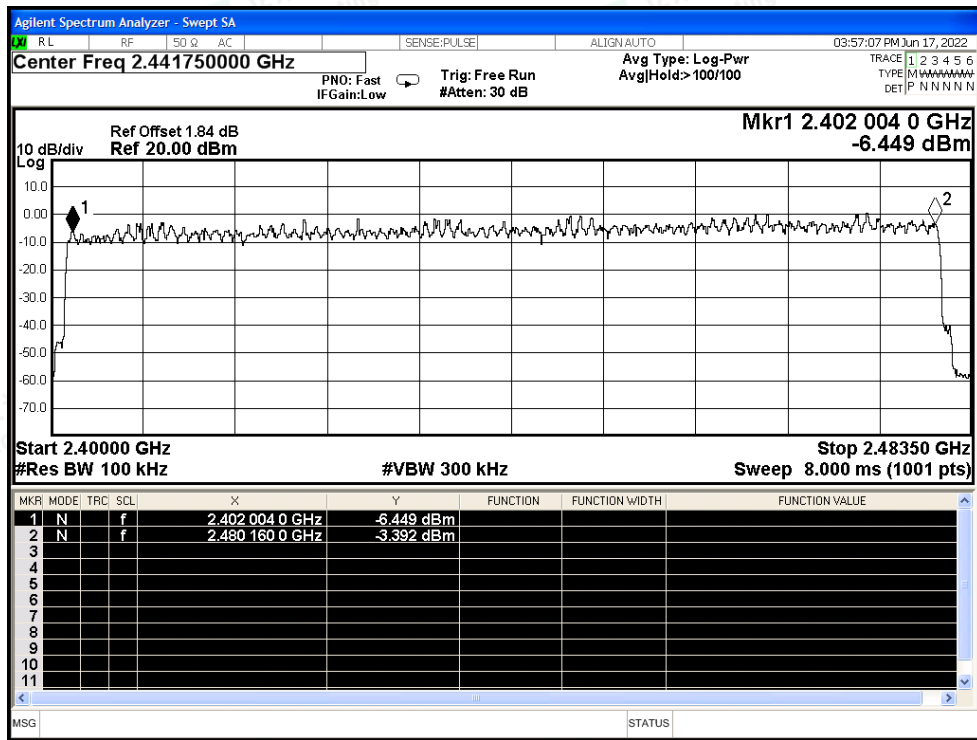


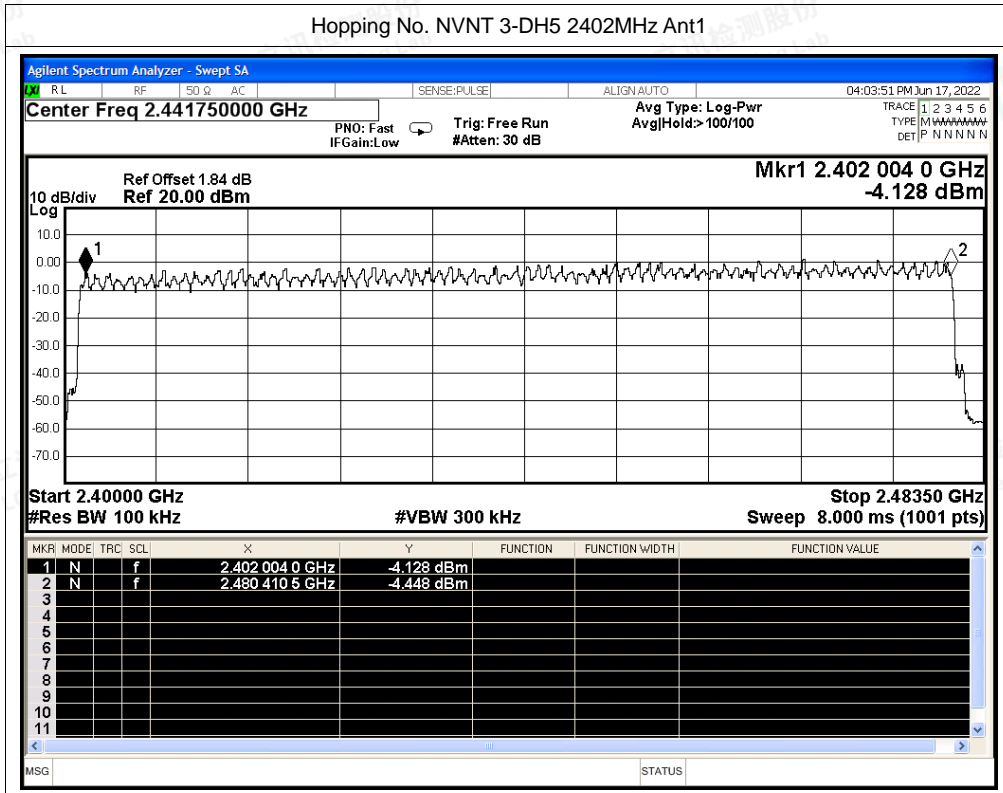
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

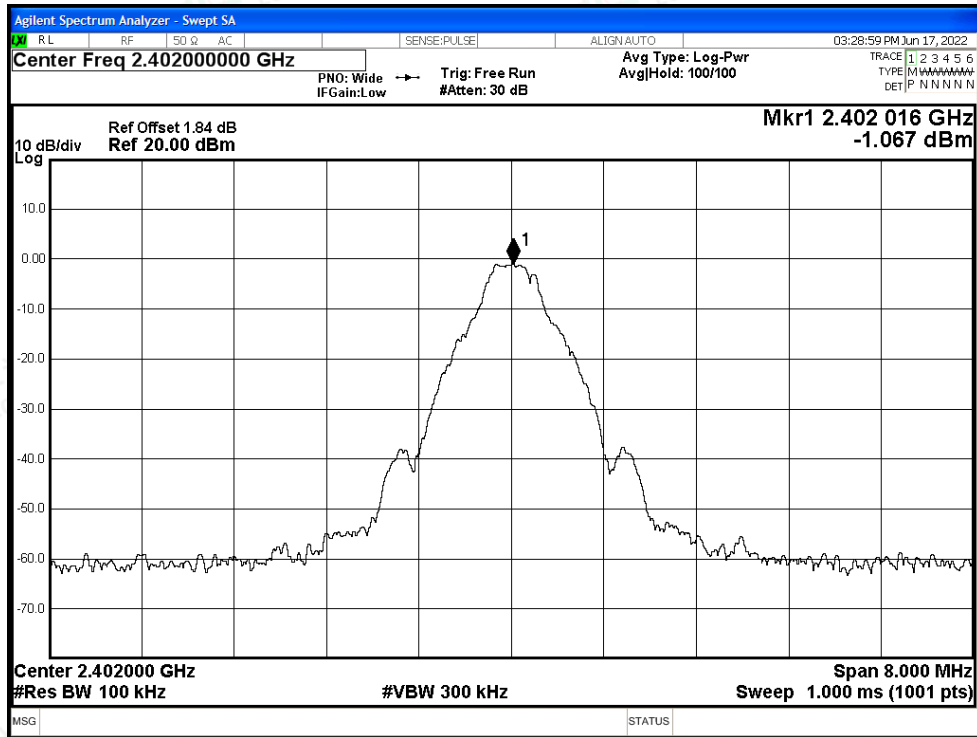
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.02	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.71	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.49	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.46	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.51	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-57.56	-20	Pass



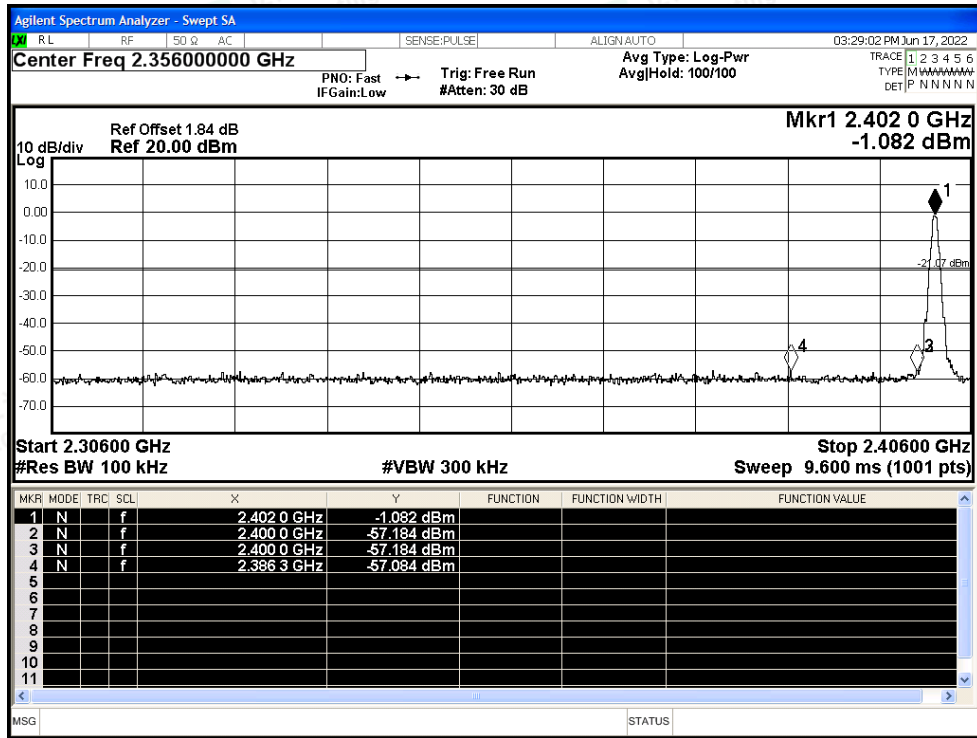


Test Graphs

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

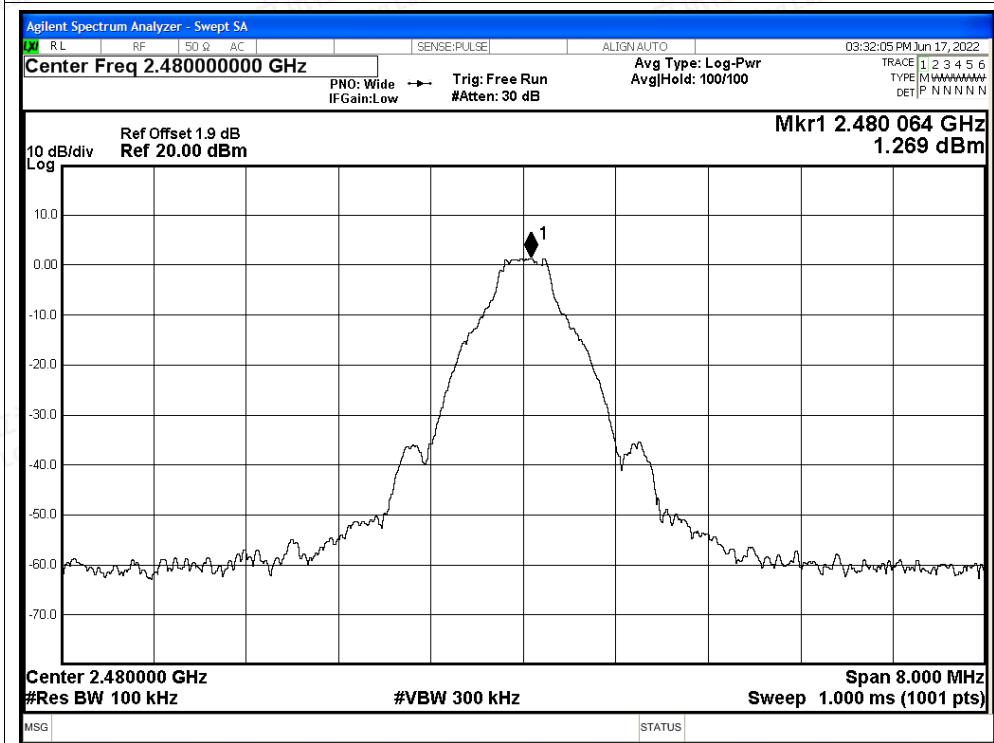


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

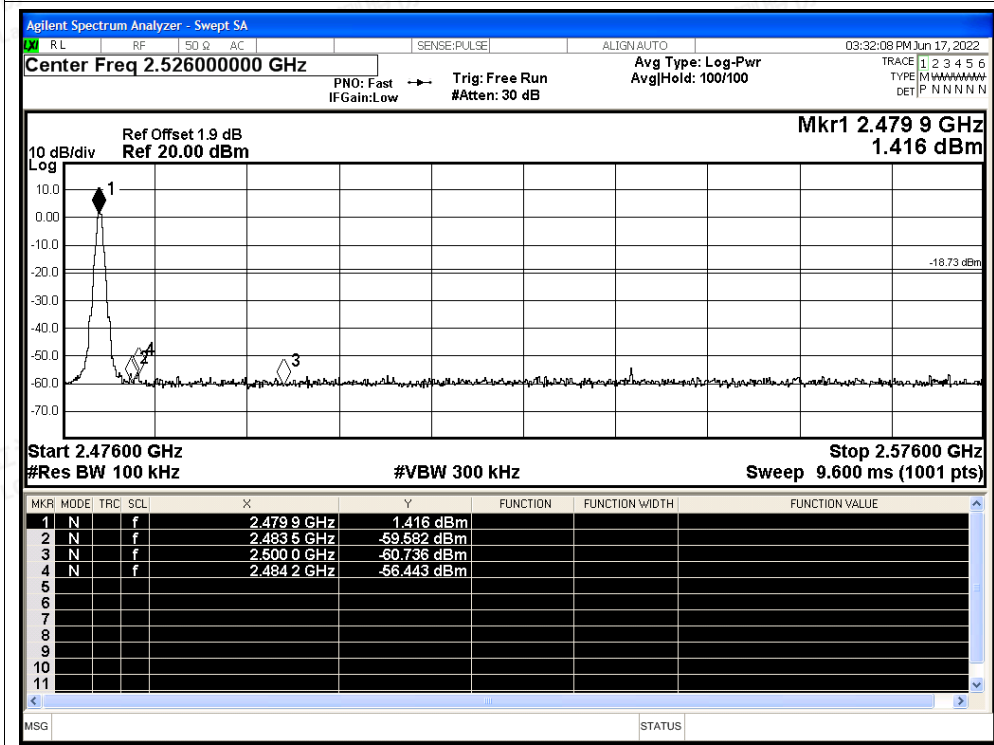




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

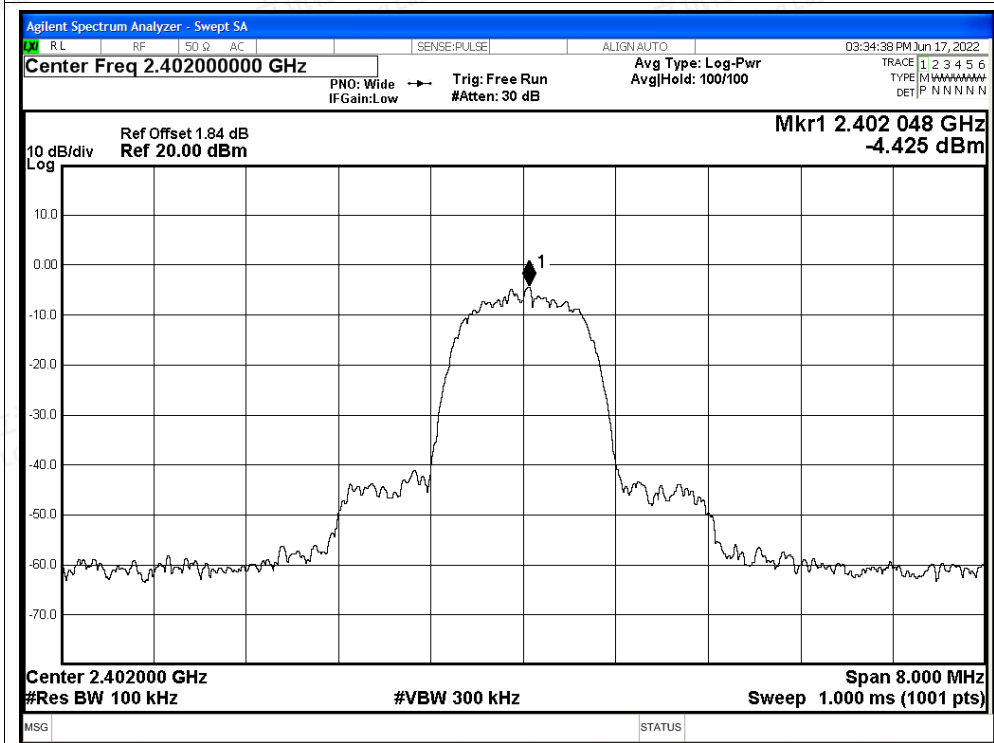


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

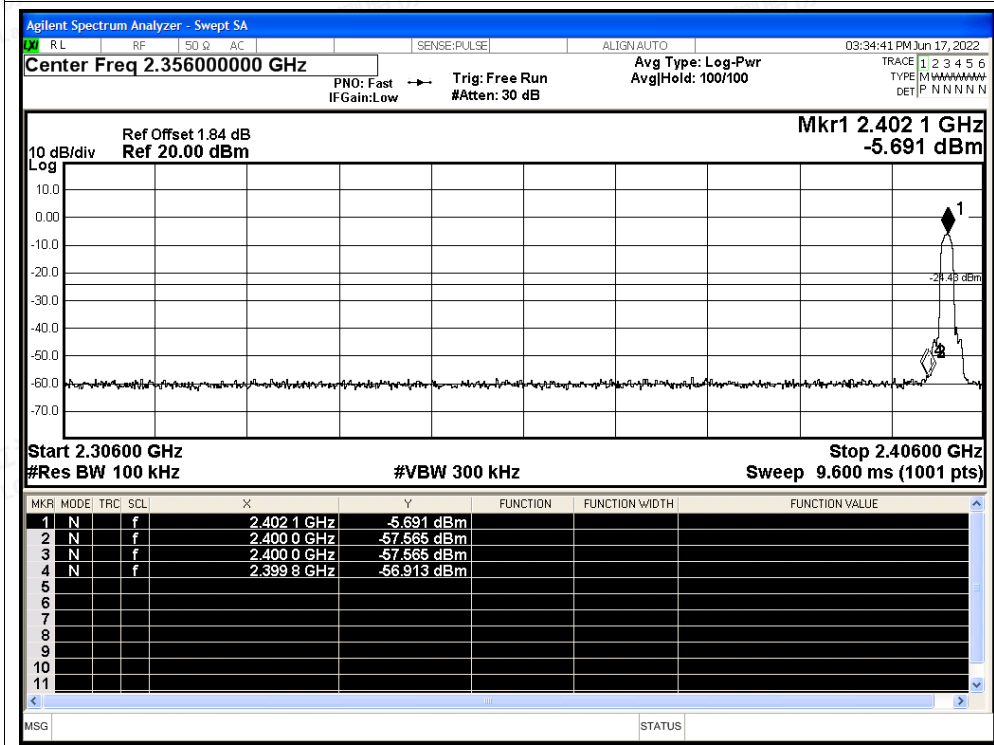




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

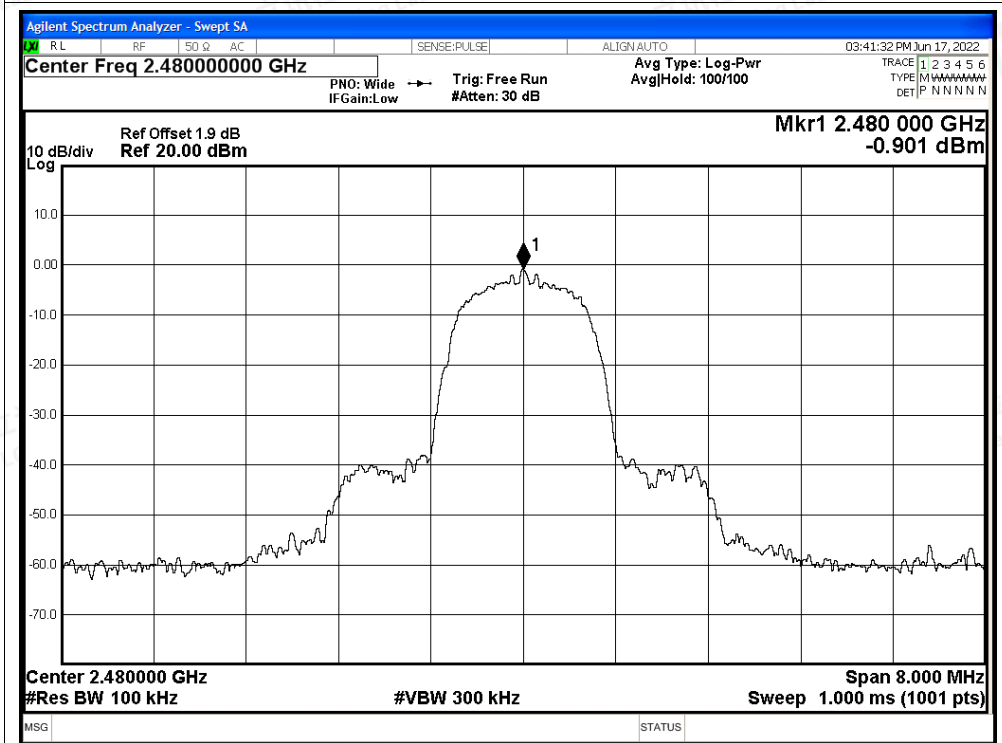


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

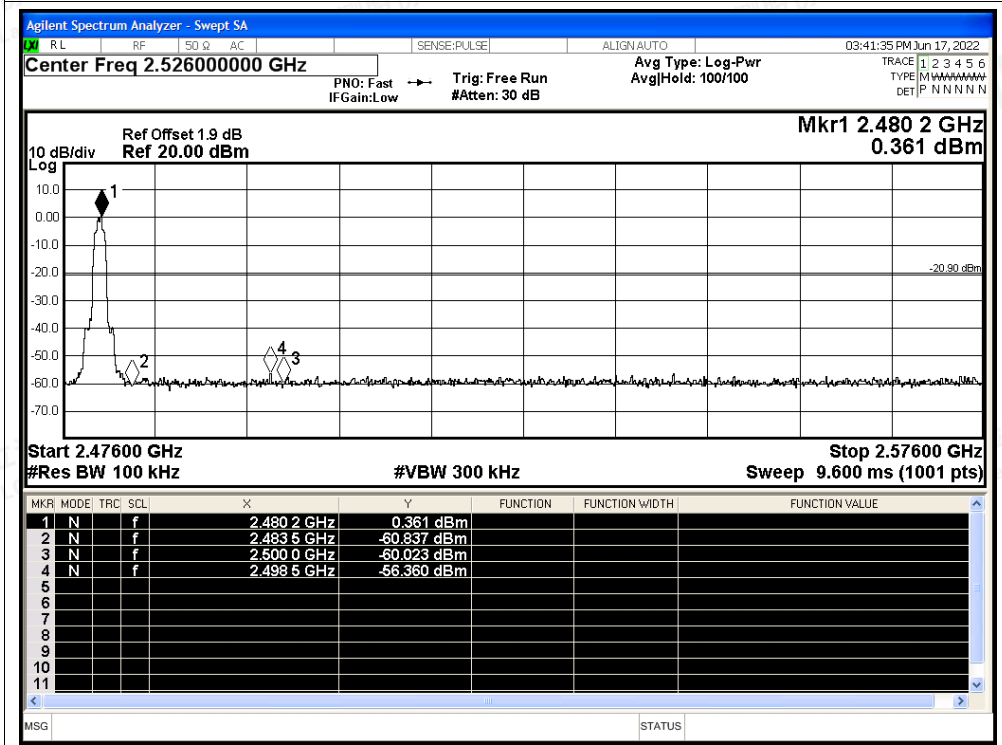




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

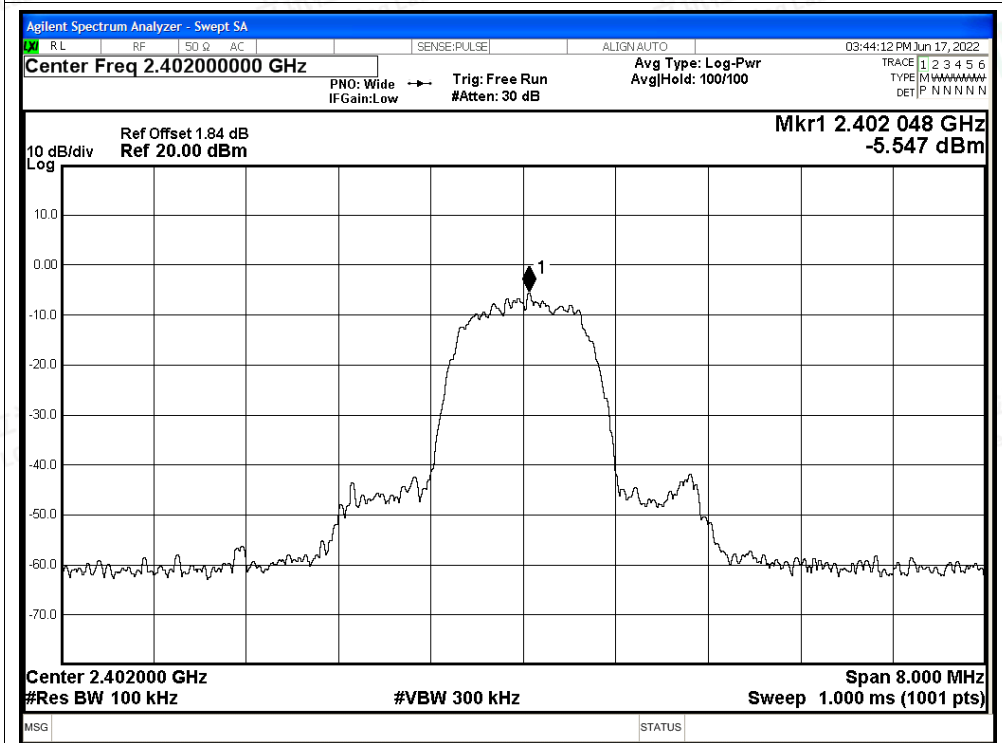


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

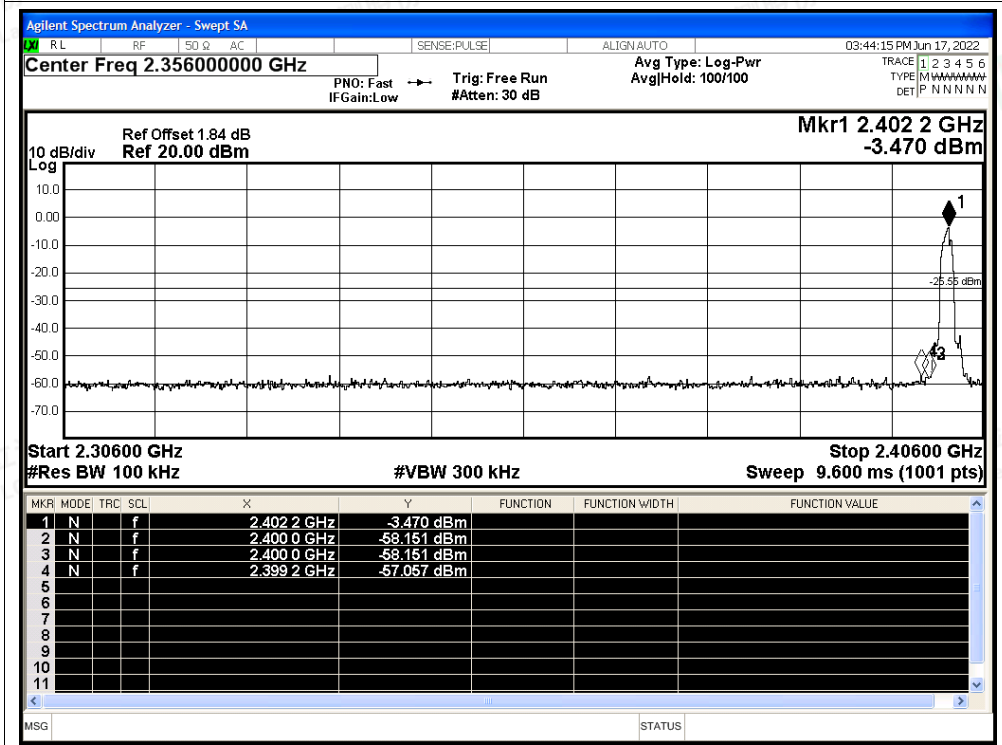




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

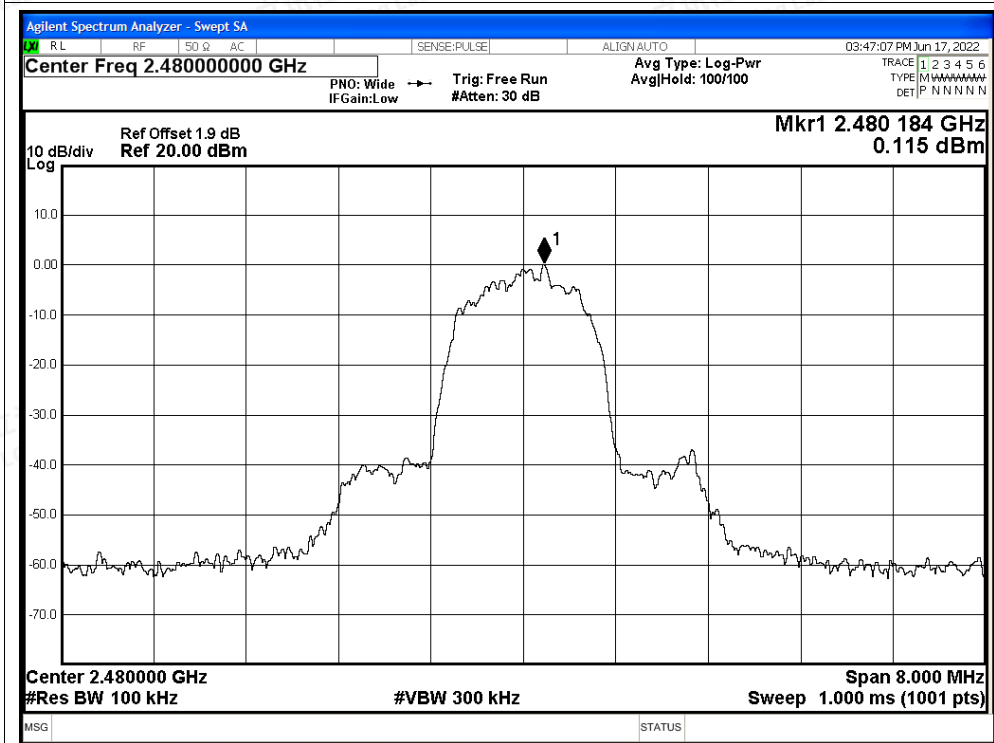


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

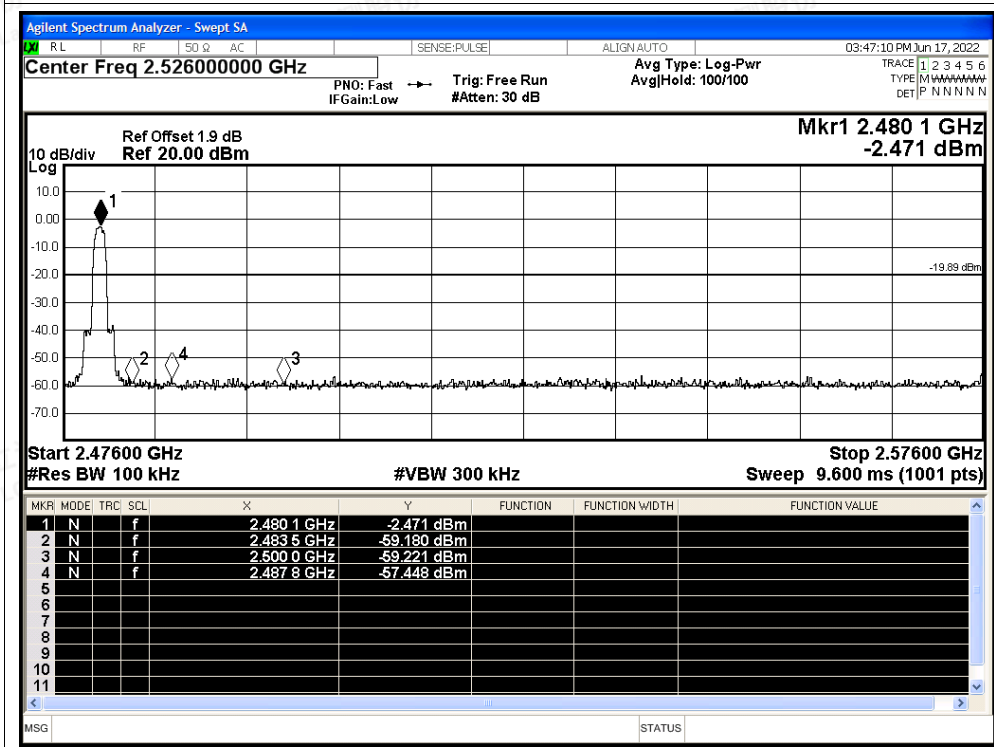




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

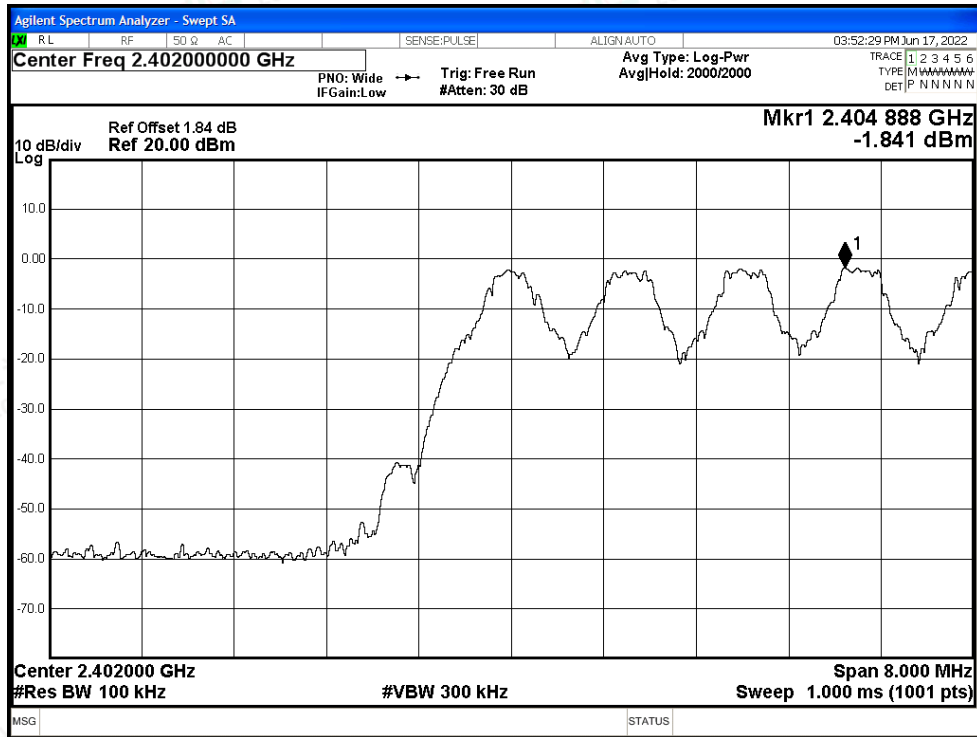
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-54.81	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.5	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.65	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.14	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.51	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-56.73	-20	Pass



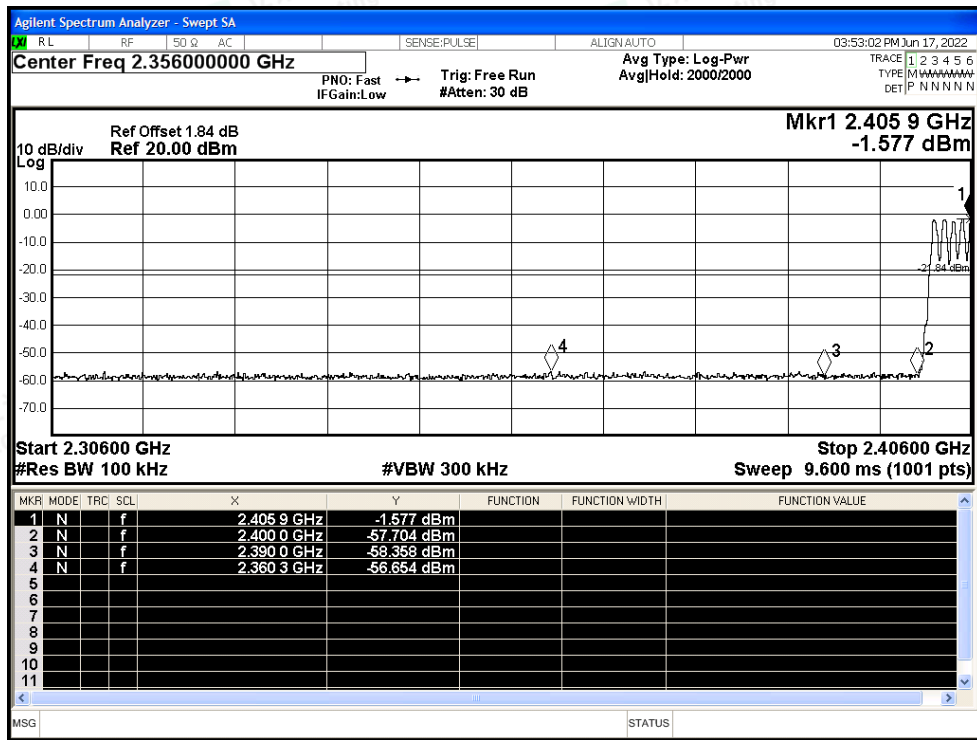


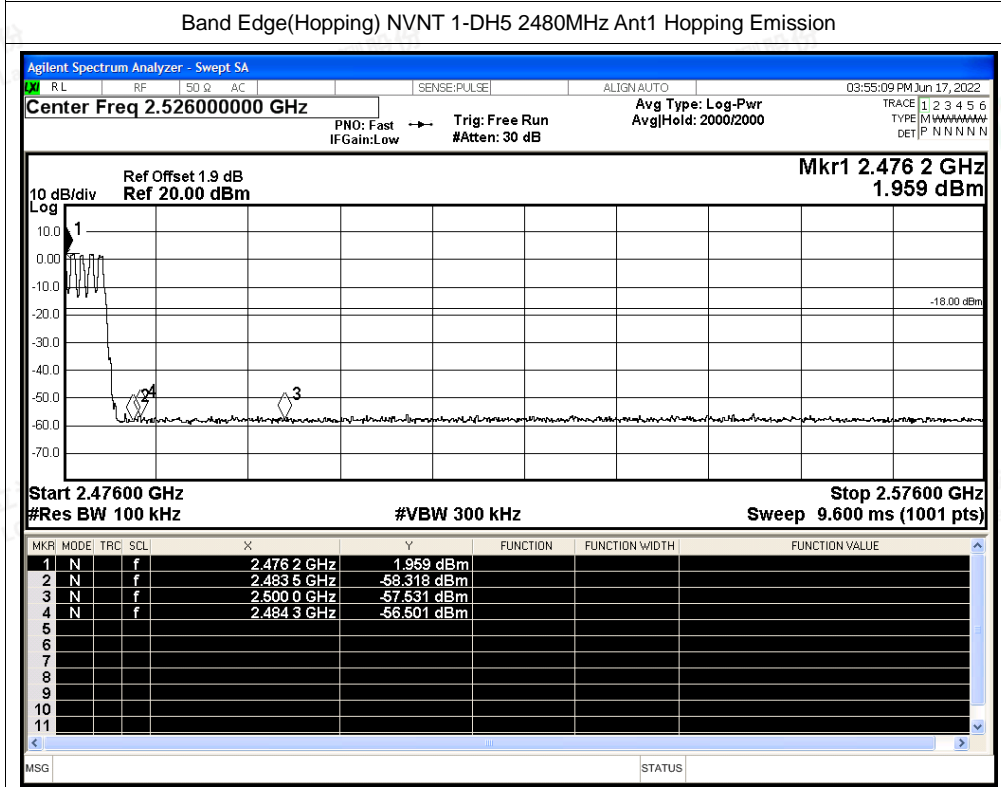
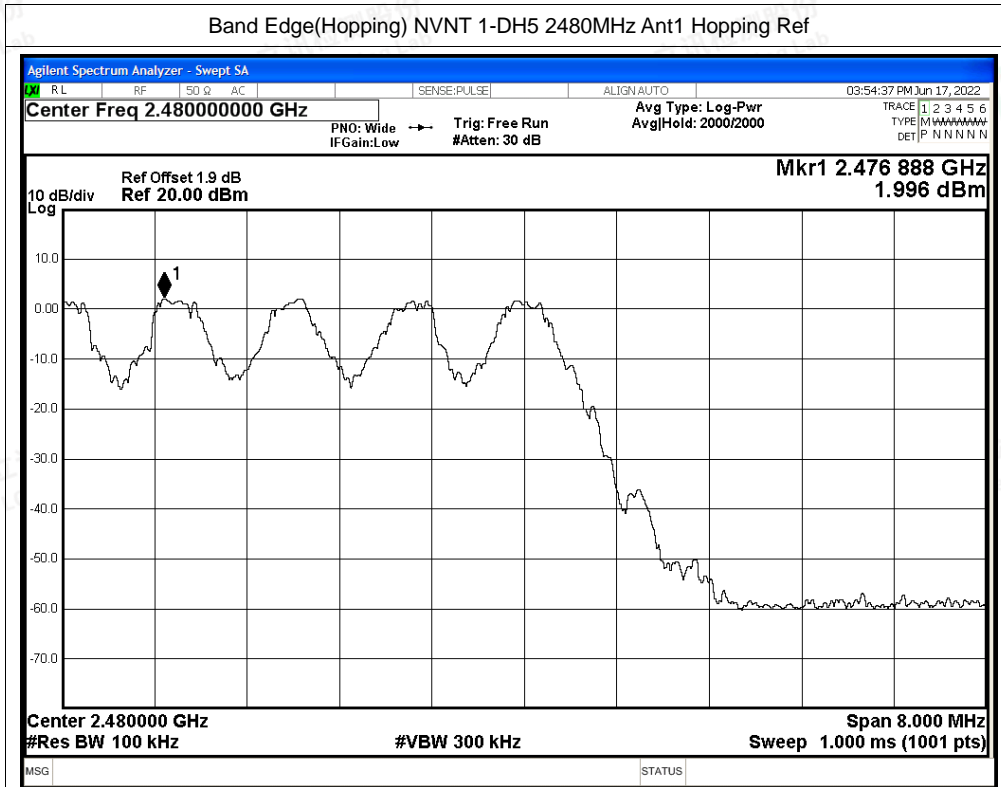
Test Graphs

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



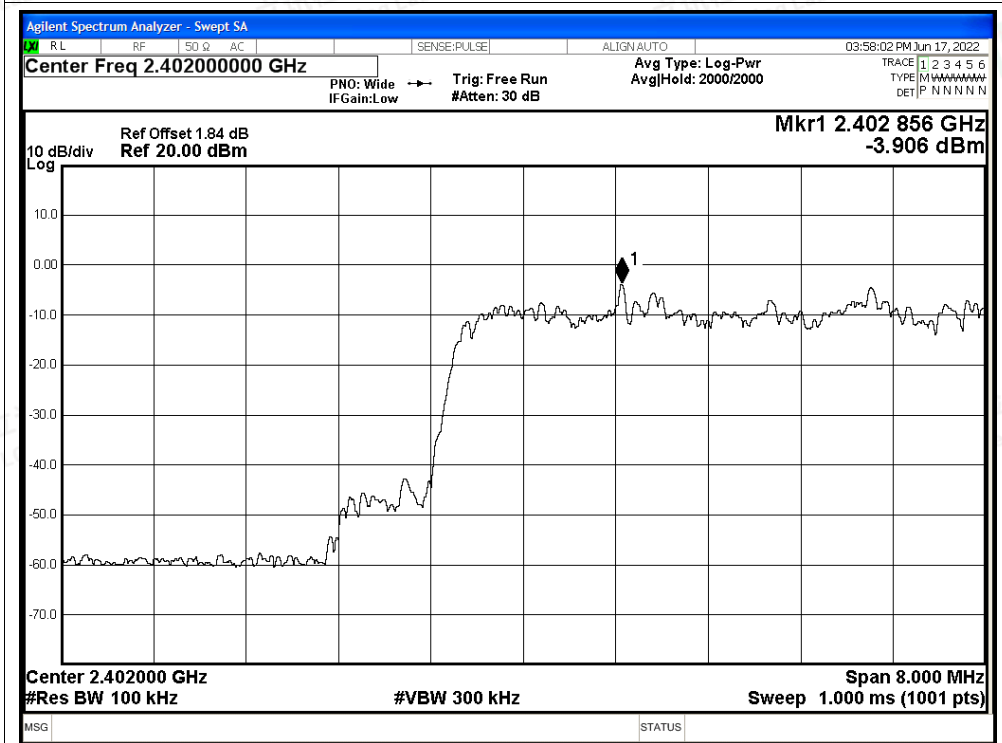
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



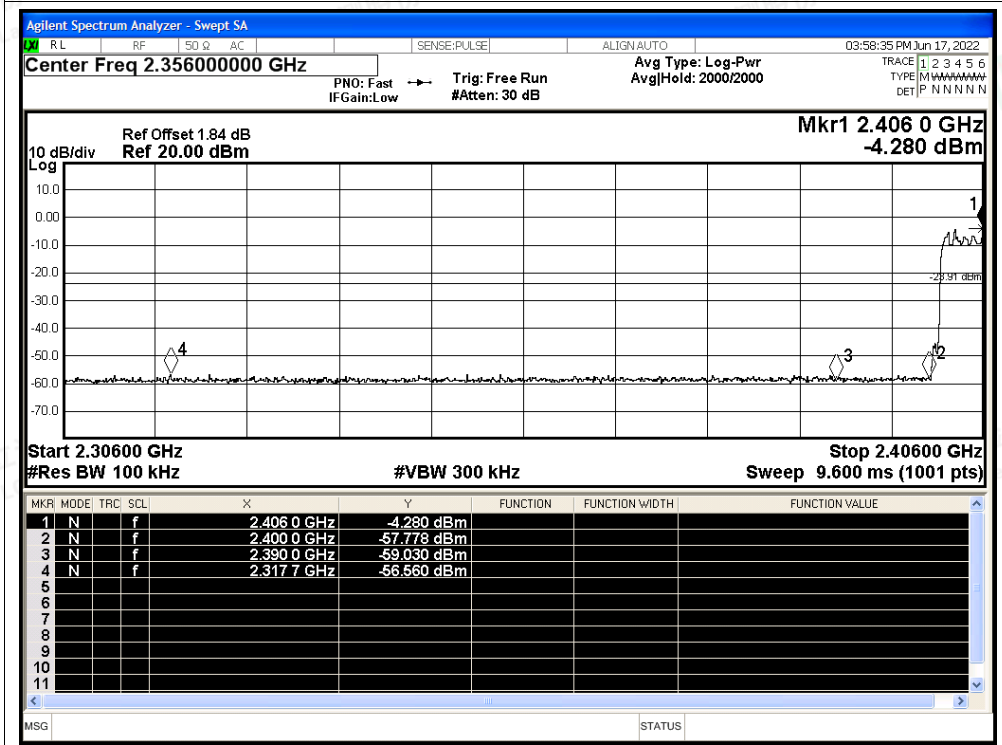




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

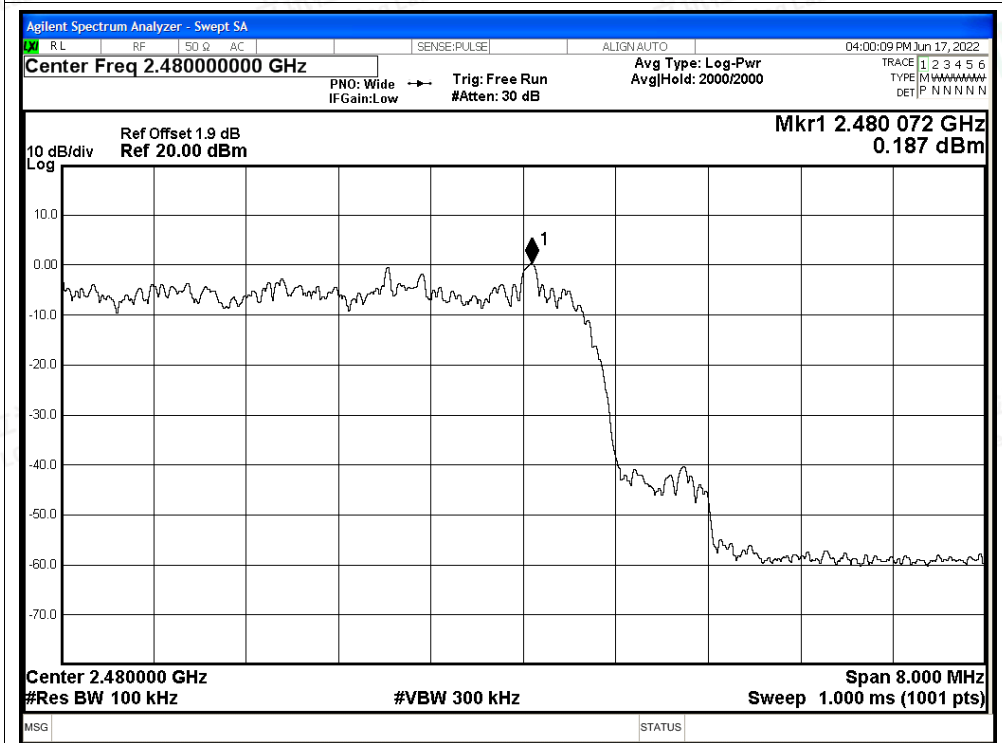


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

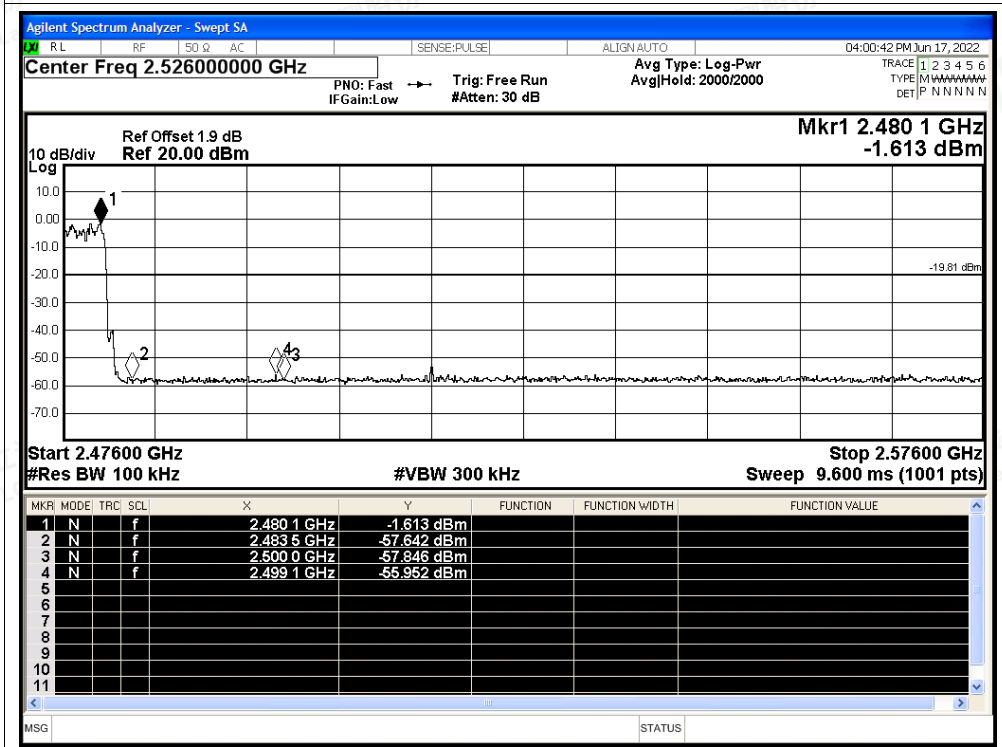




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

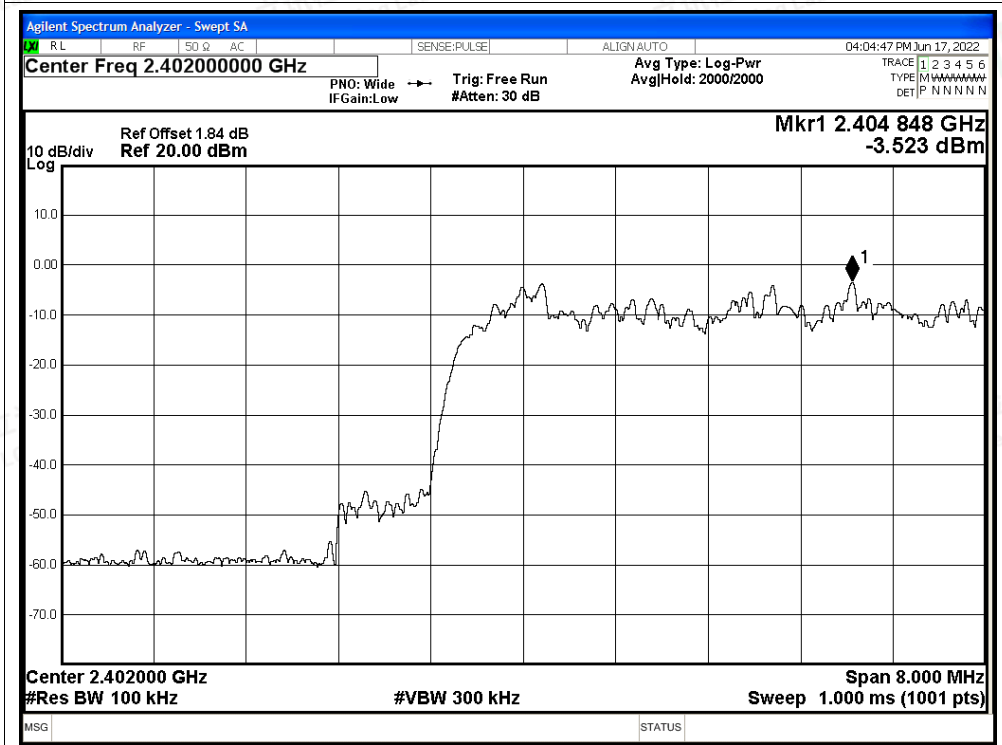


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

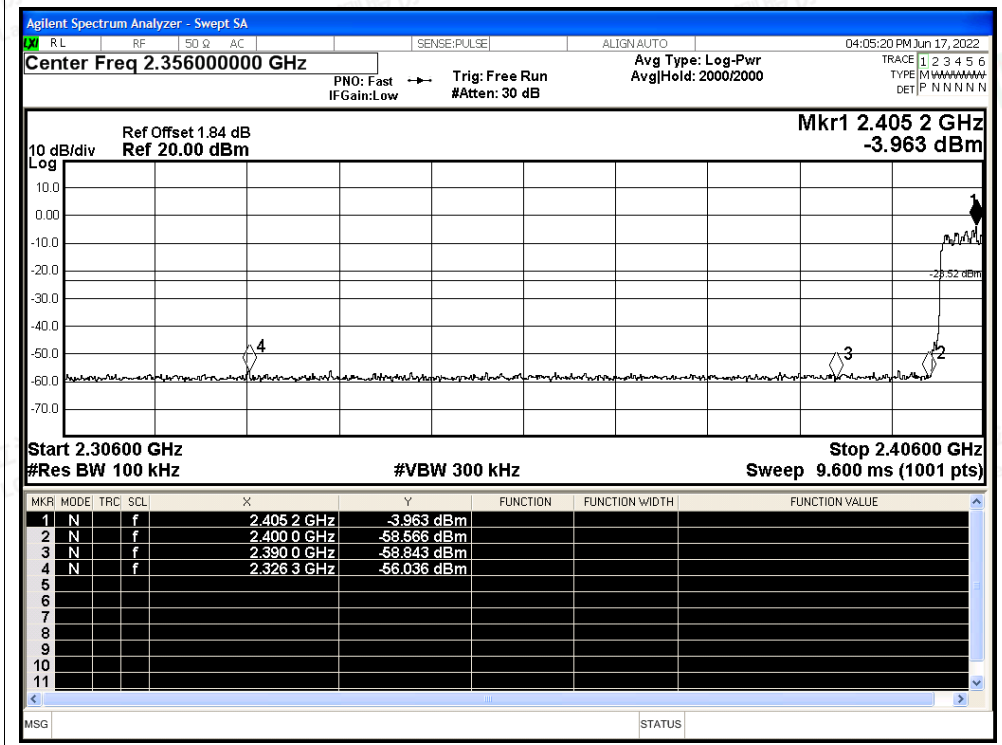




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

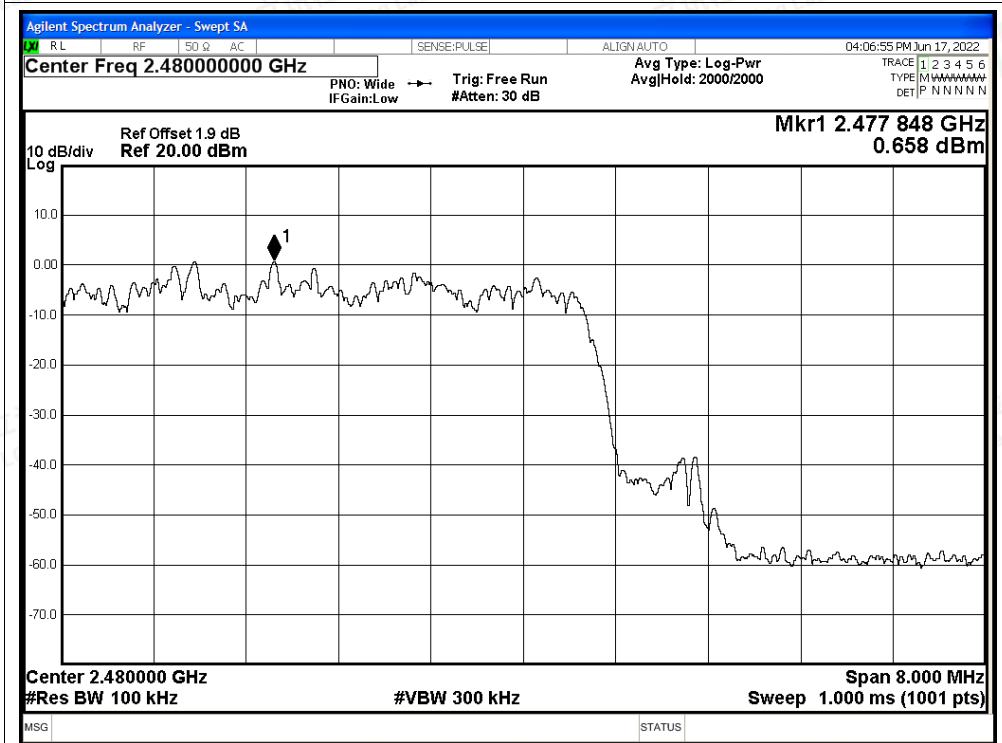


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

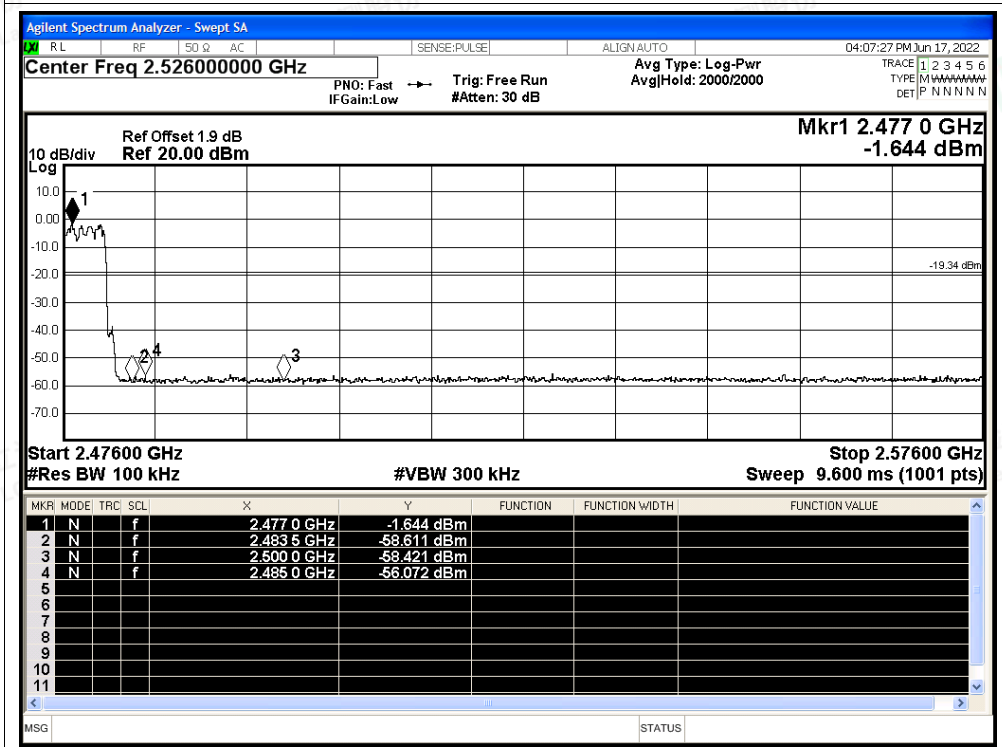




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-54.56	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.73	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.45	-20	Pass
NVNT	2-DH5	2402	Ant1	-47.32	-20	Pass
NVNT	2-DH5	2441	Ant1	-22.08	-20	Pass
NVNT	2-DH5	2480	Ant1	-49.81	-20	Pass
NVNT	3-DH5	2402	Ant1	-40.78	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.67	-20	Pass
NVNT	3-DH5	2480	Ant1	-55.72	-20	Pass

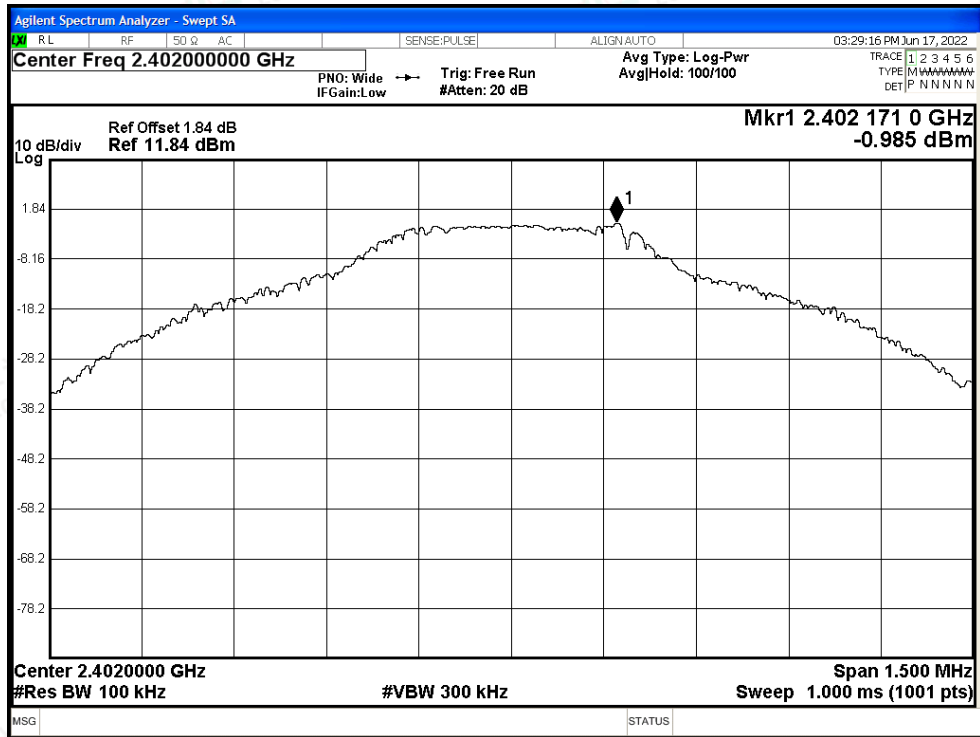


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

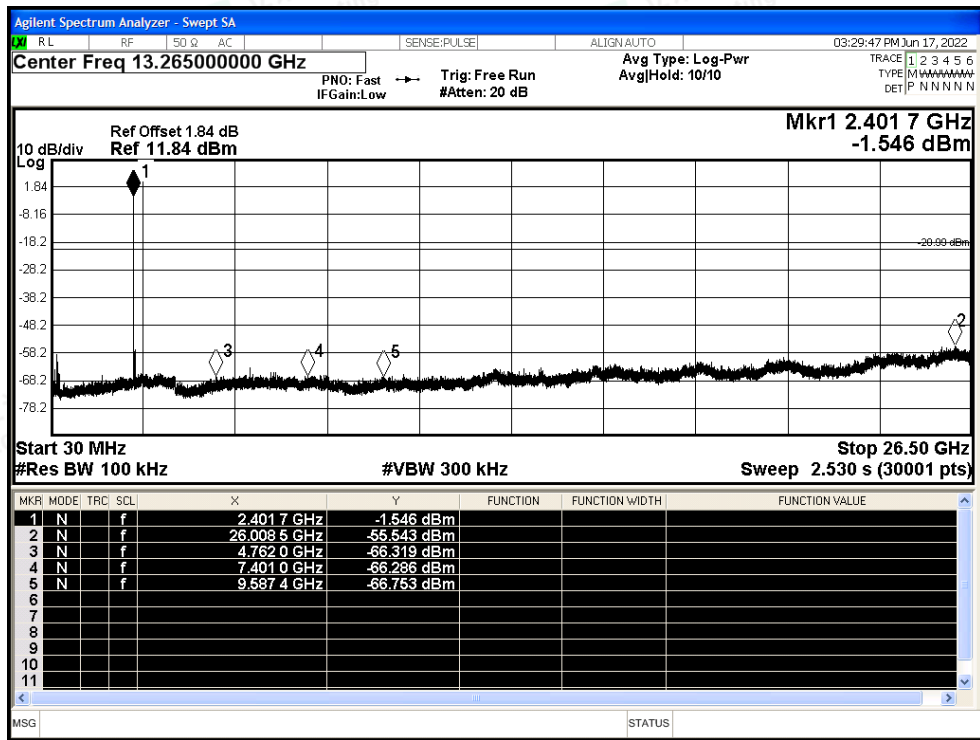


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

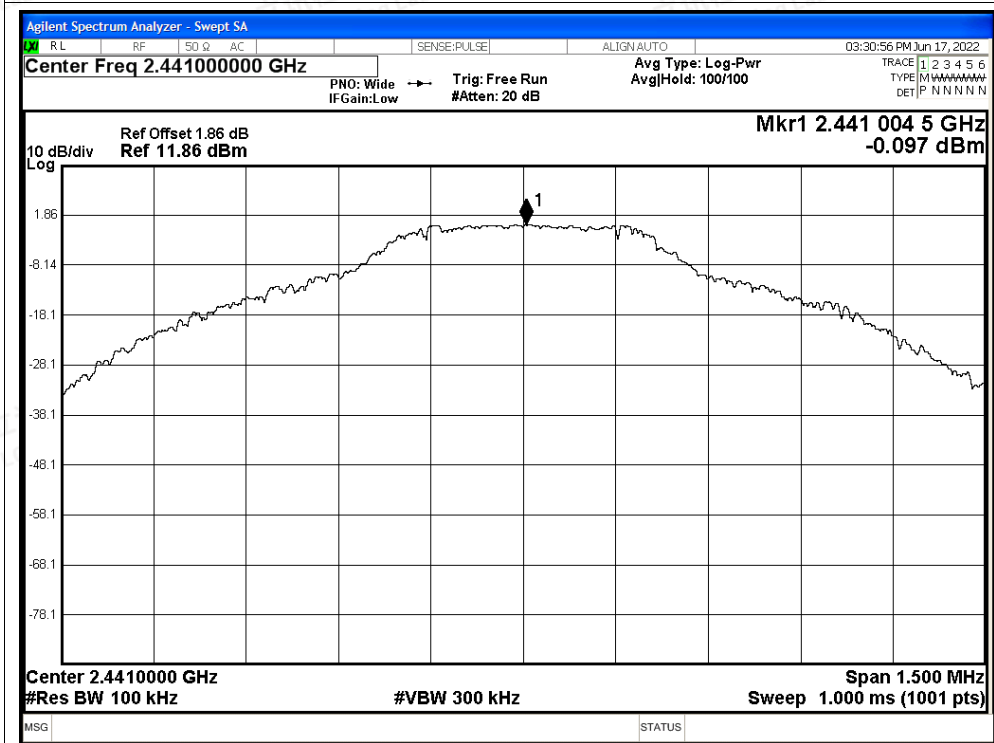


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

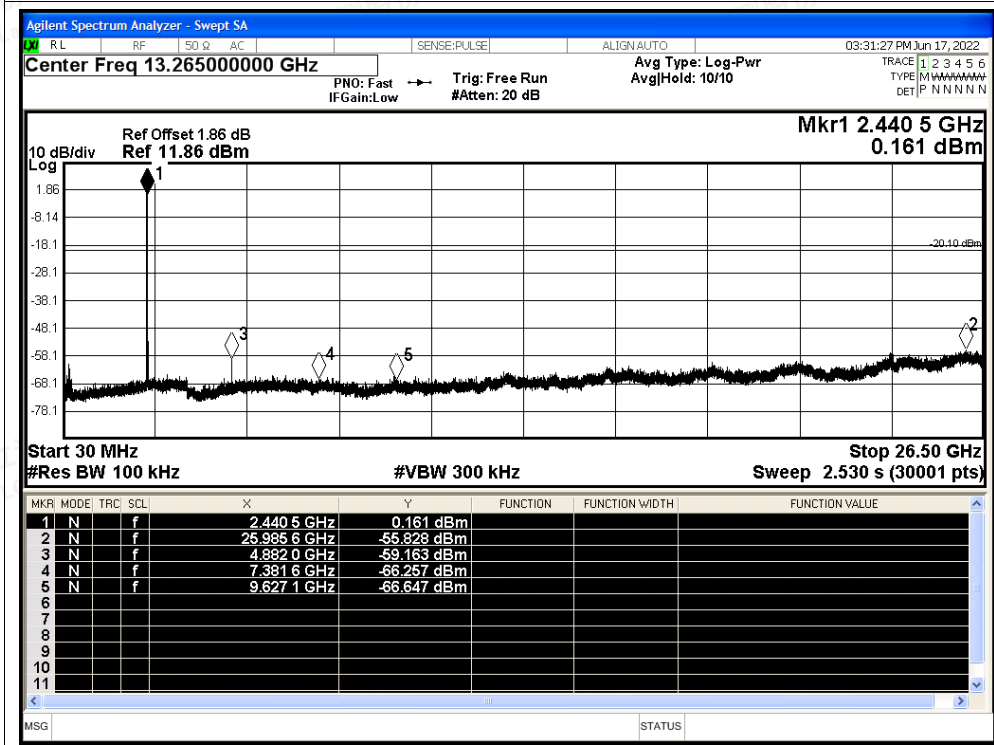




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

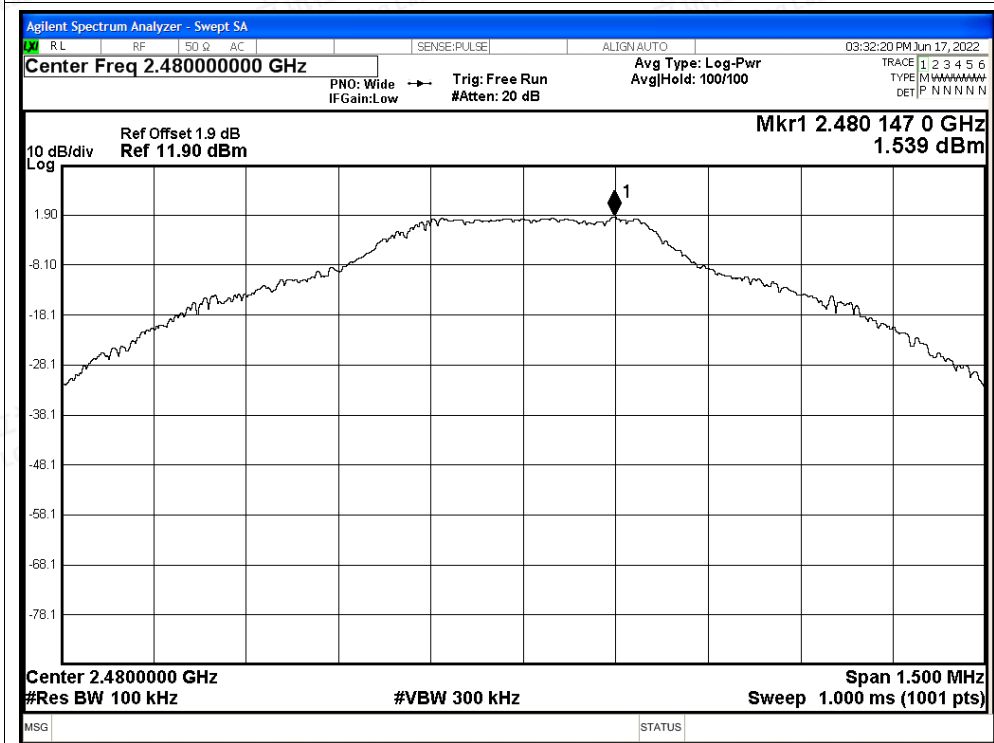


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

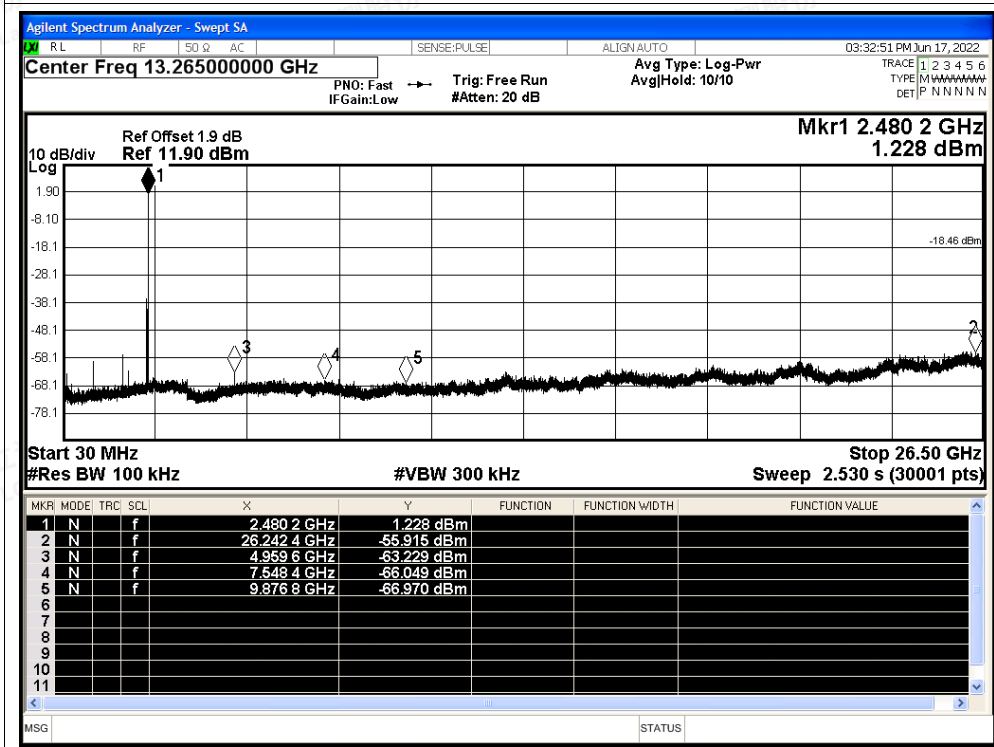




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

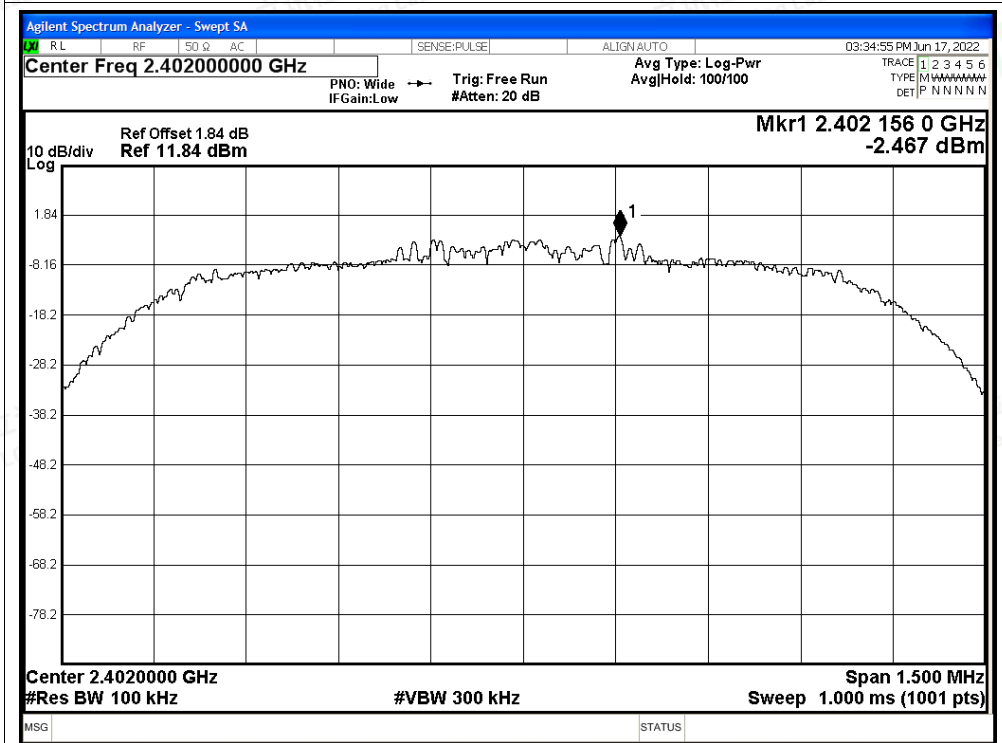


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

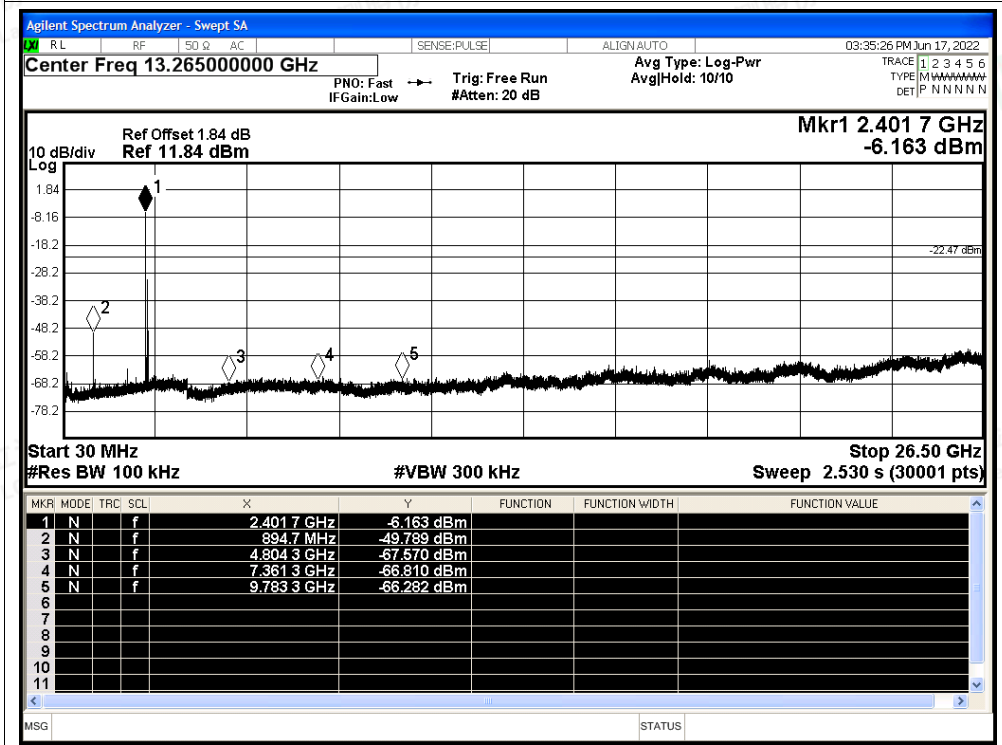




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

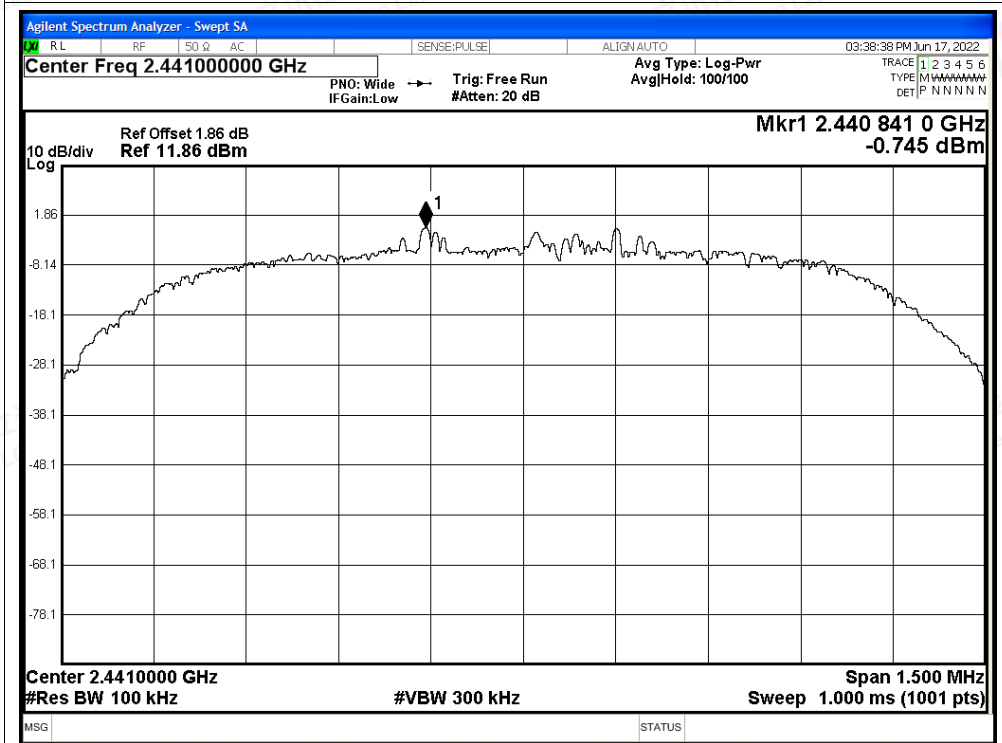


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

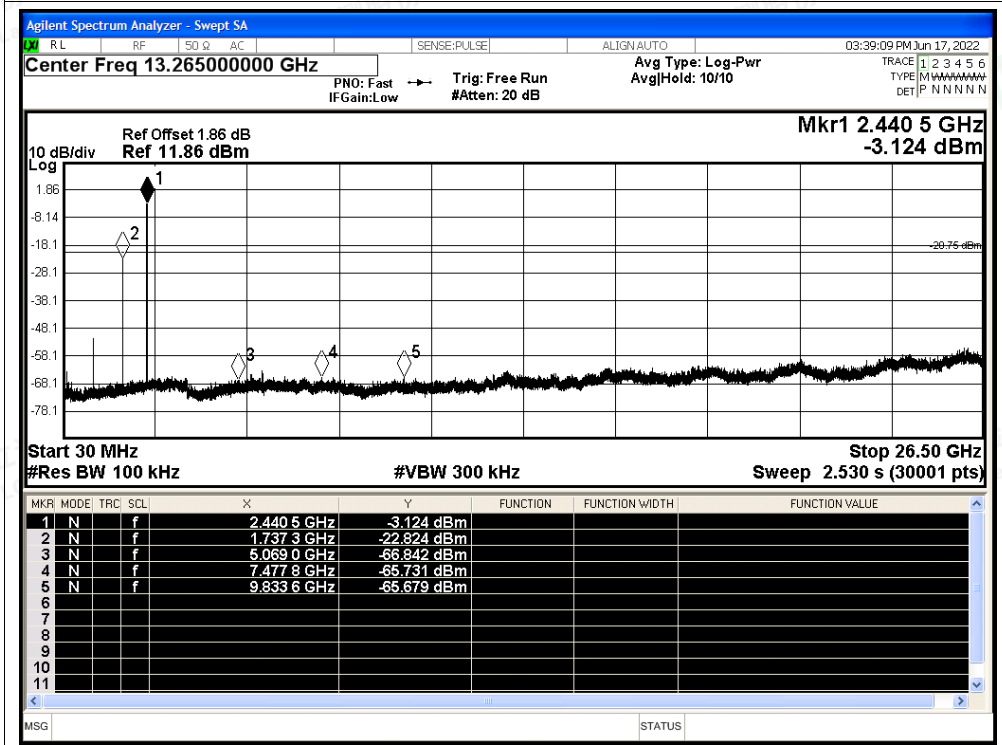




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

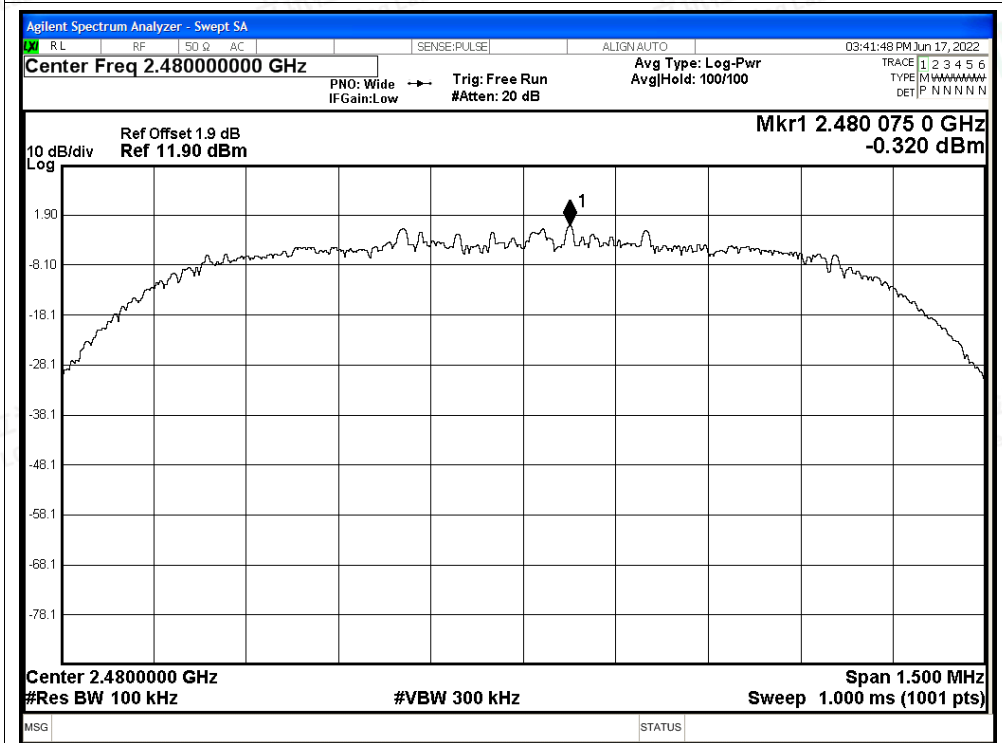


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

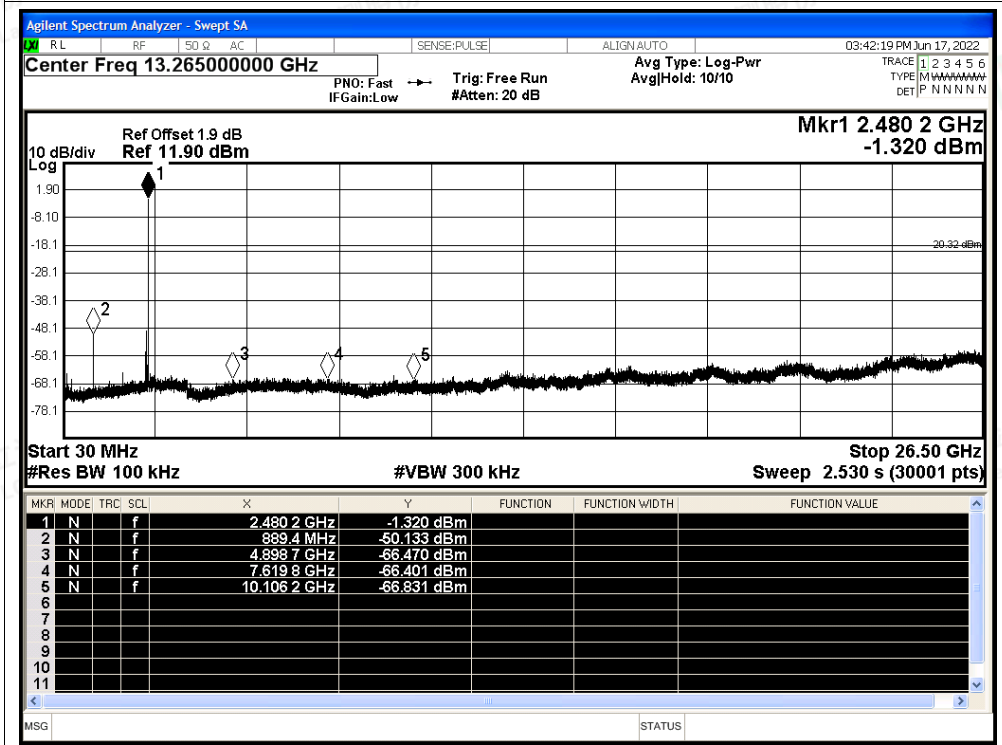




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

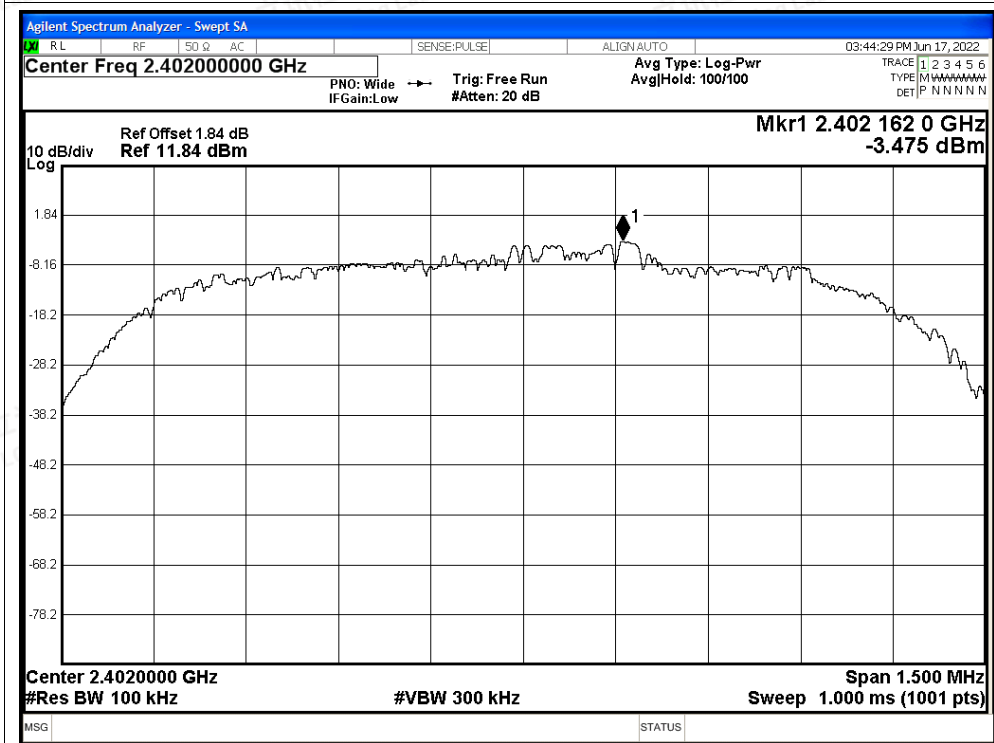


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

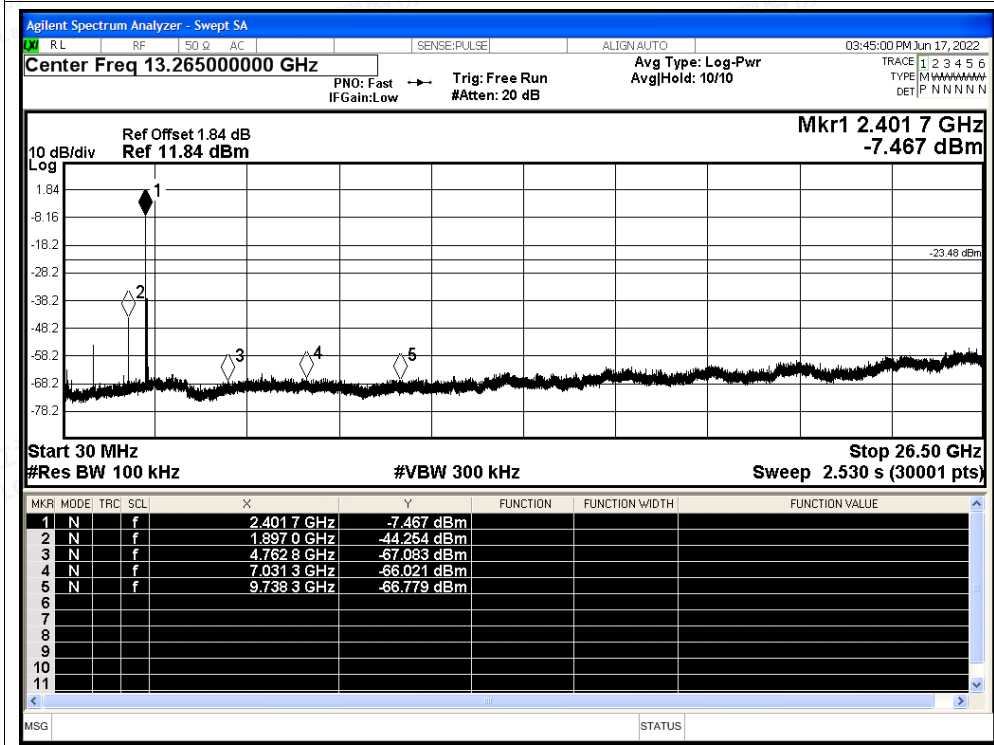




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

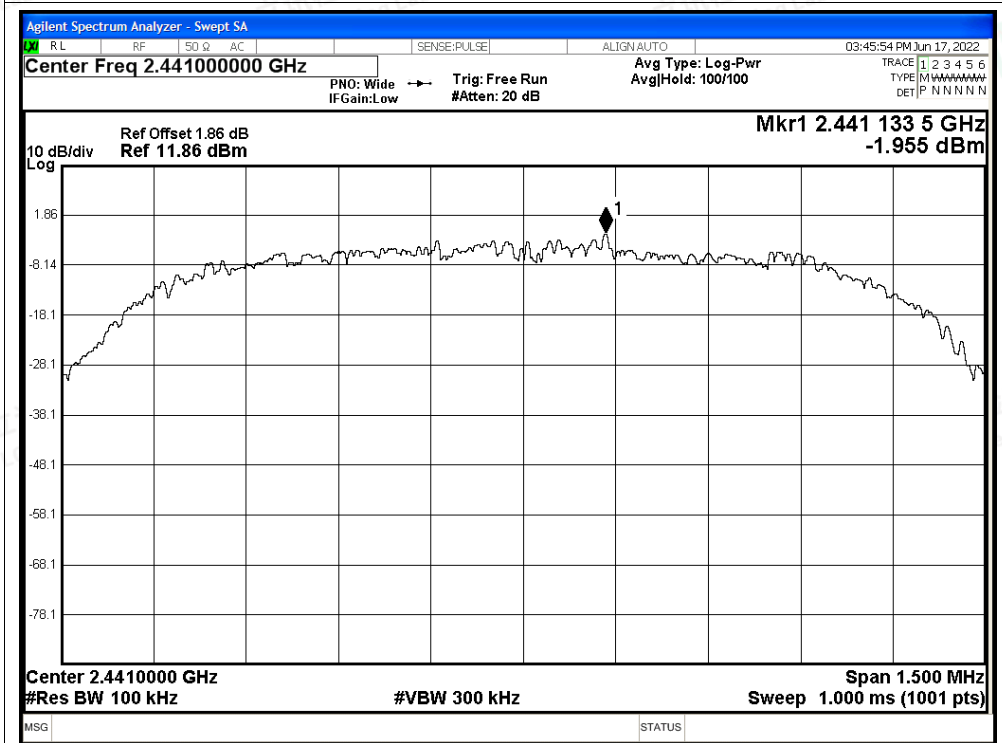


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

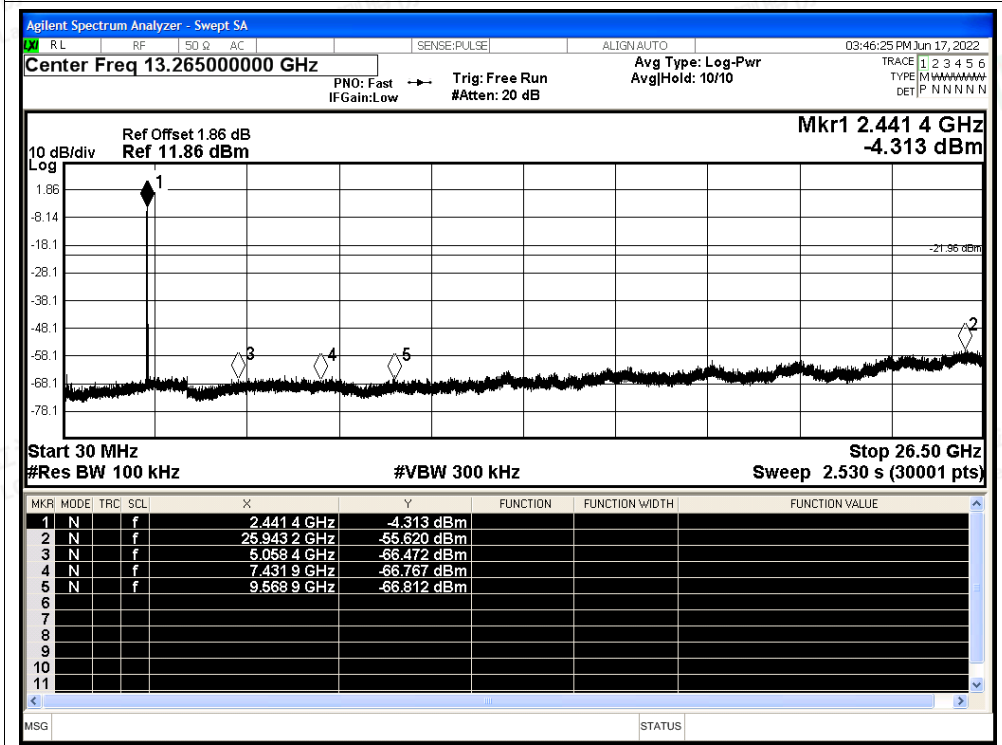




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

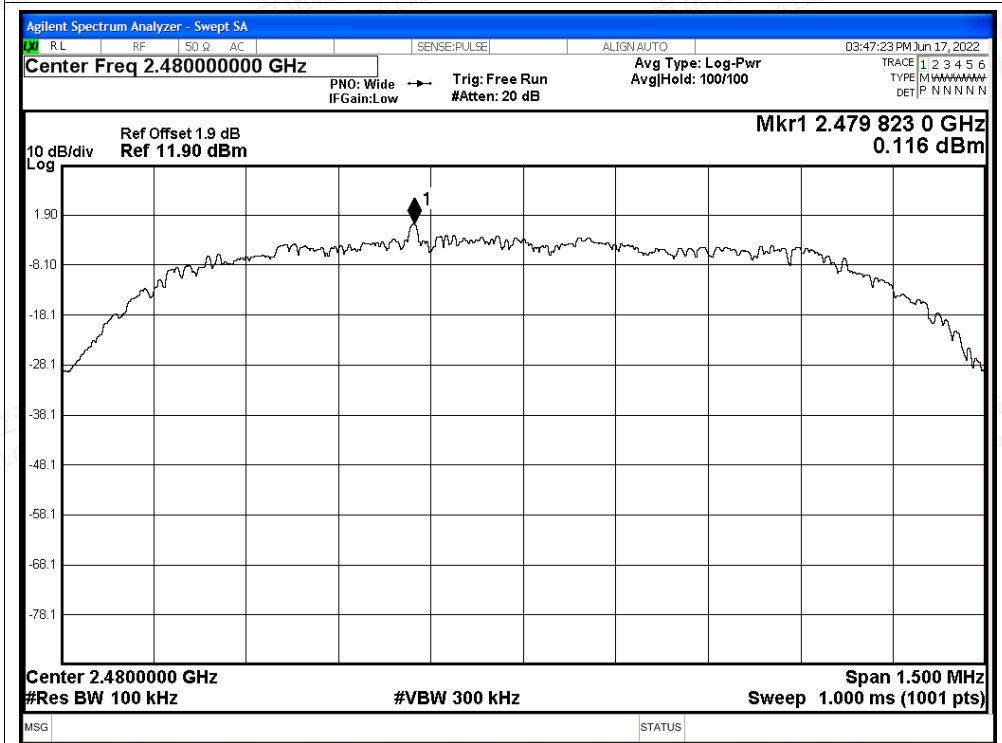


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

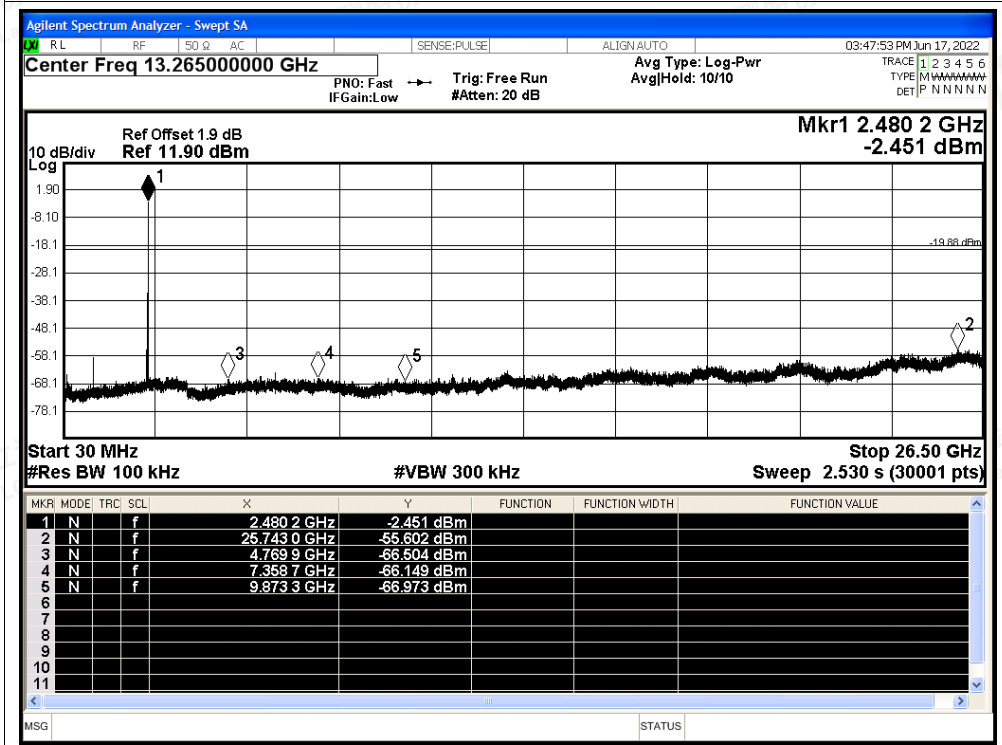




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-50.67	2	46.59	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.62	2	36.64	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2317.776	-47.58	2	49.68	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.968	-60.14	2	37.12	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.82	2	46.44	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.13	2	37.13	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-51.54	2	45.72	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.59	2	37.67	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.616	-46.69	2	50.57	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.584	-59.56	2	37.7	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.57	2	46.69	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.11	2	37.15	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51	2	46.26	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.73	2	36.53	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2331.696	-47.9	2	49.36	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2385.936	-60.15	2	37.11	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-52.05	2	45.21	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.34	2	36.92	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-47.7	2	49.56	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.31	2	37.95	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2492.368	-47.67	2	49.59	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-59.31	2	37.95	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.68	2	47.58	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.97	2	37.29	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.98	2	47.28	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.71	2	36.55	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2351.184	-47.95	2	49.31	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2382.384	-60.2	2	37.06	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51	2	46.26	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.38	2	36.88	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.03	2	47.23	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.42	2	37.84	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2490.688	-46.87	2	50.39	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.608	-59.35	2	37.91	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.69	2	47.57	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.99	2	37.27	Average	54	Pass

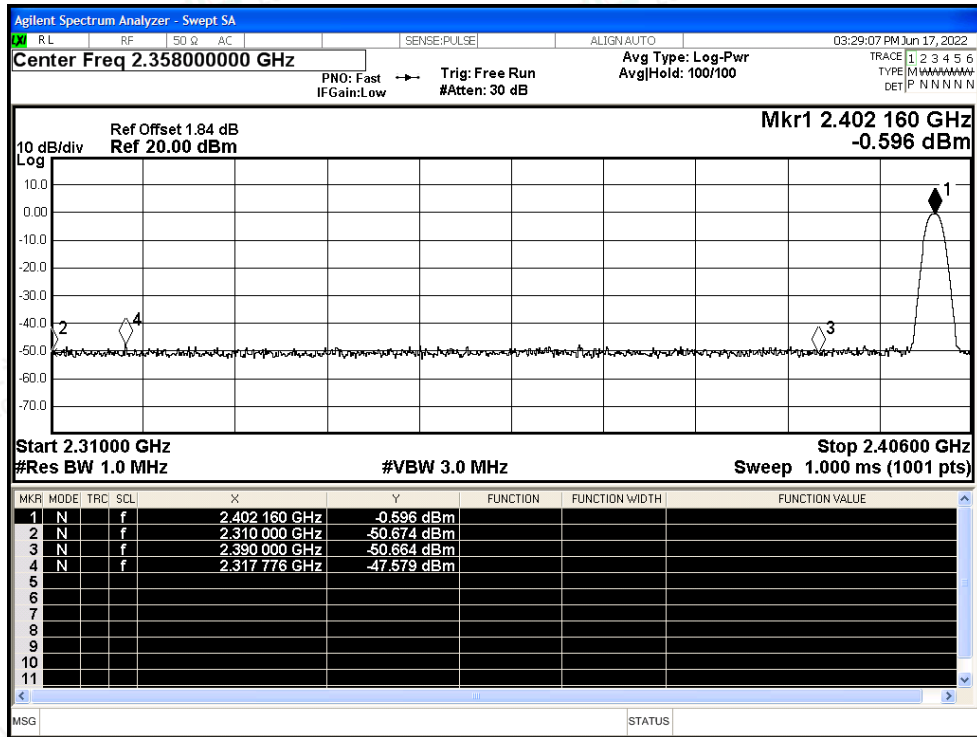


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

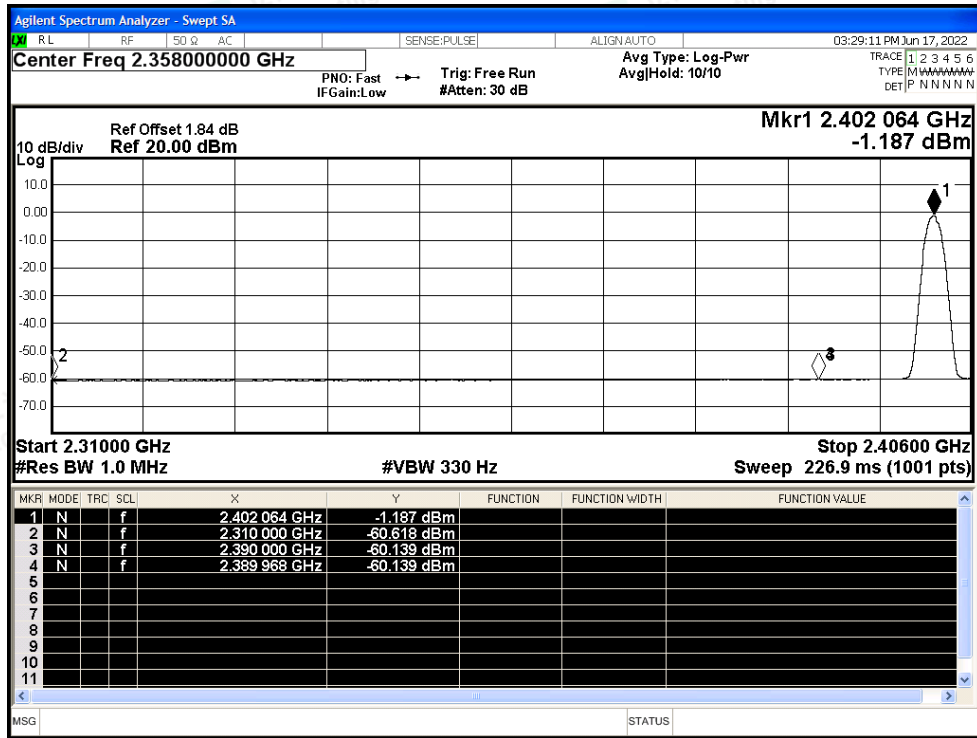


Test Graphs

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

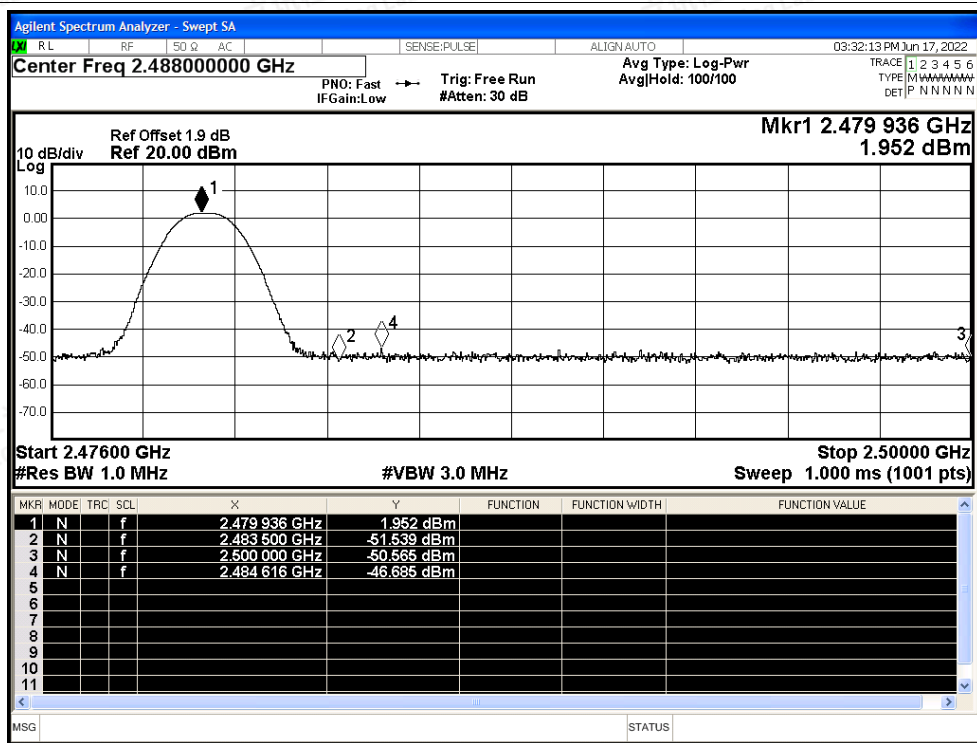


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

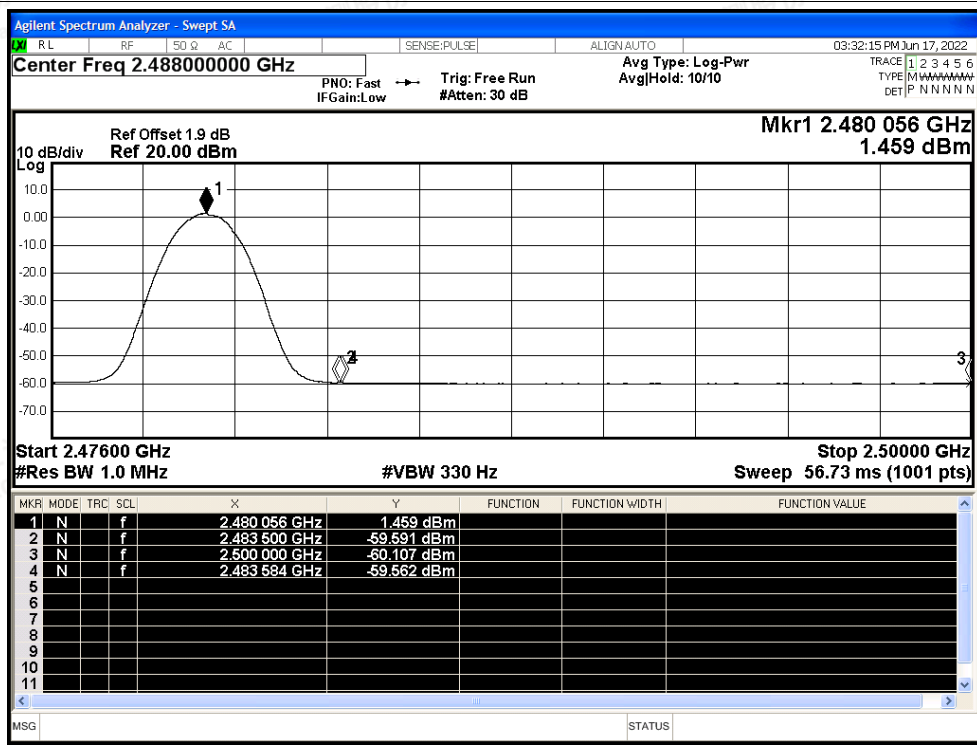




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

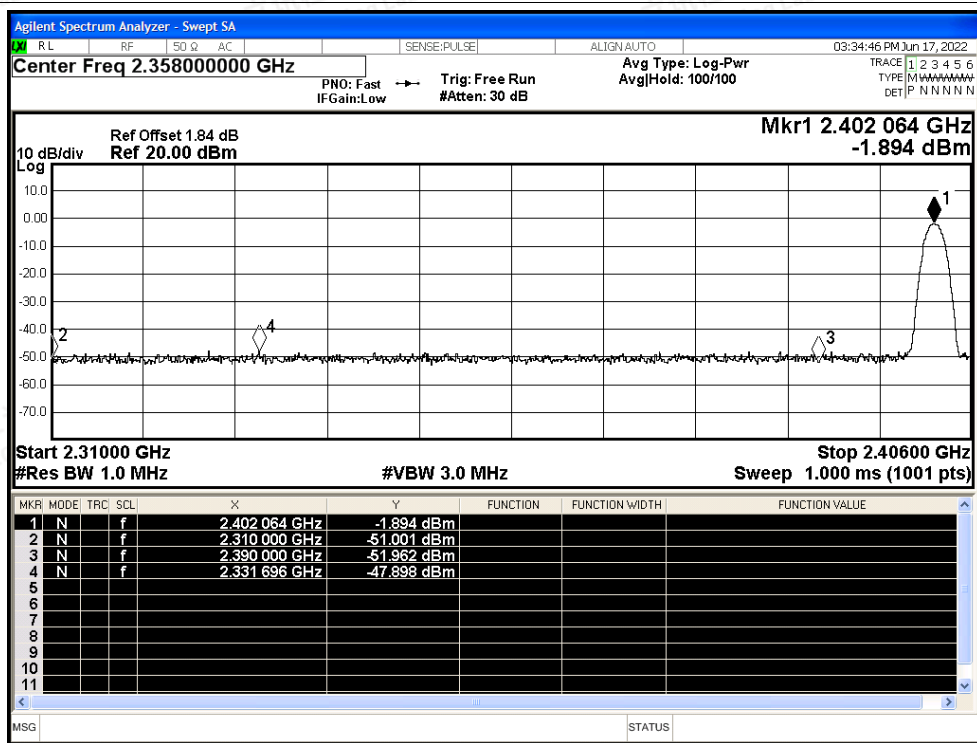


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

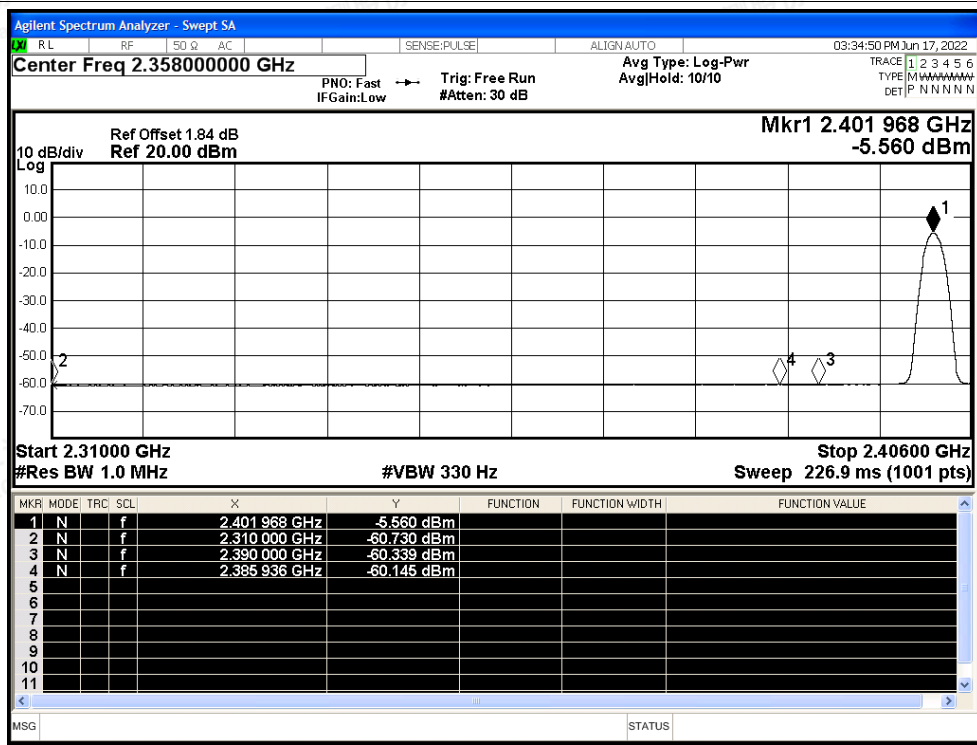




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

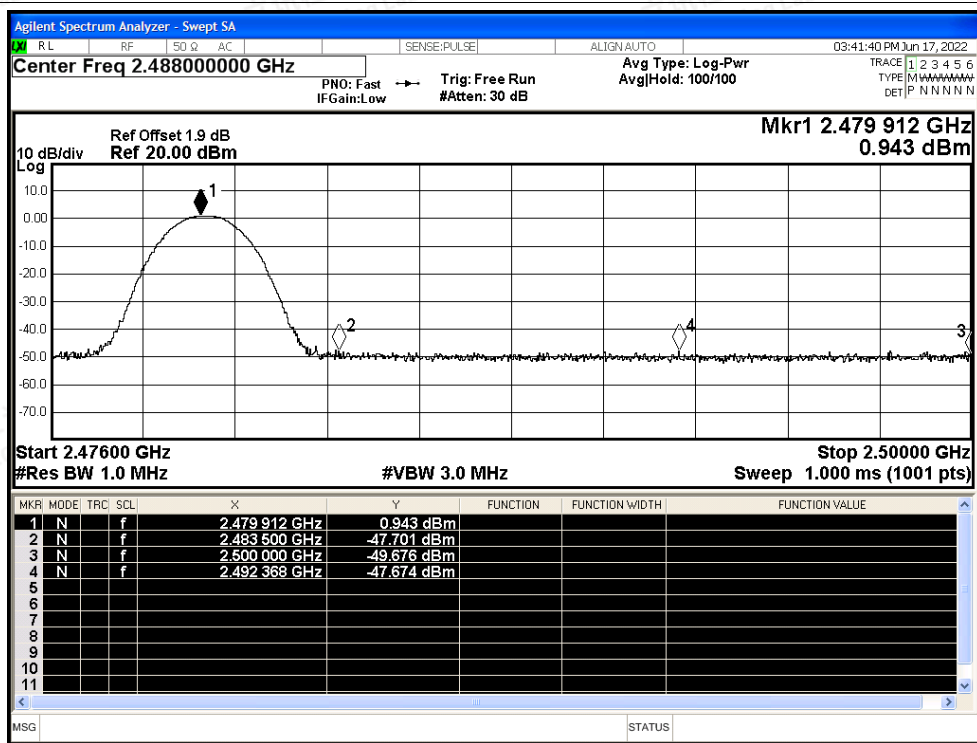


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

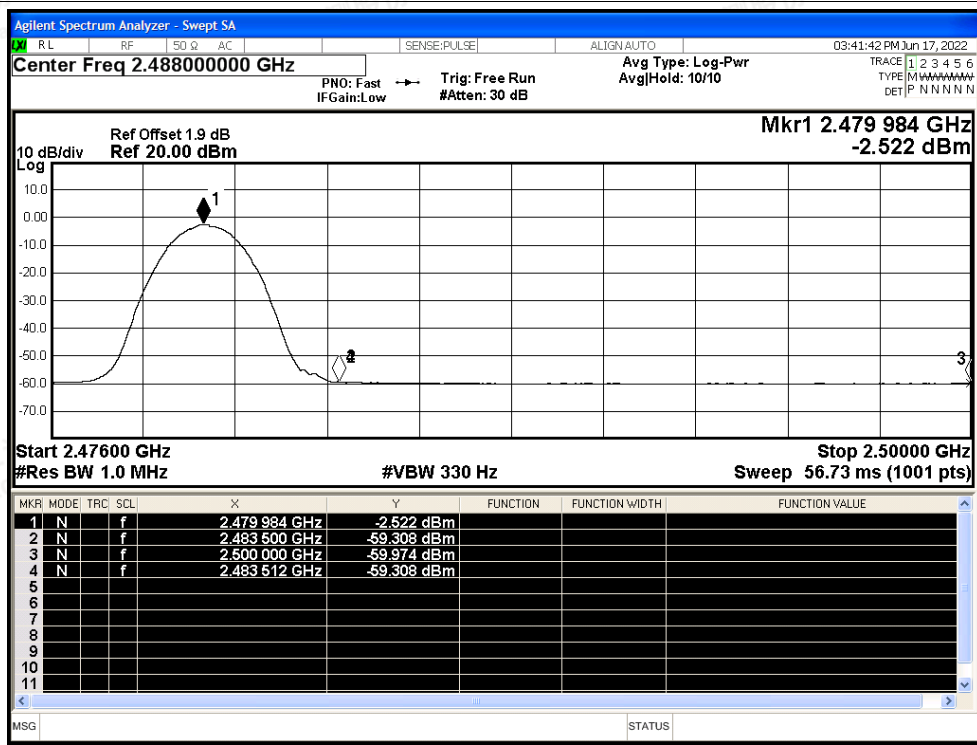




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

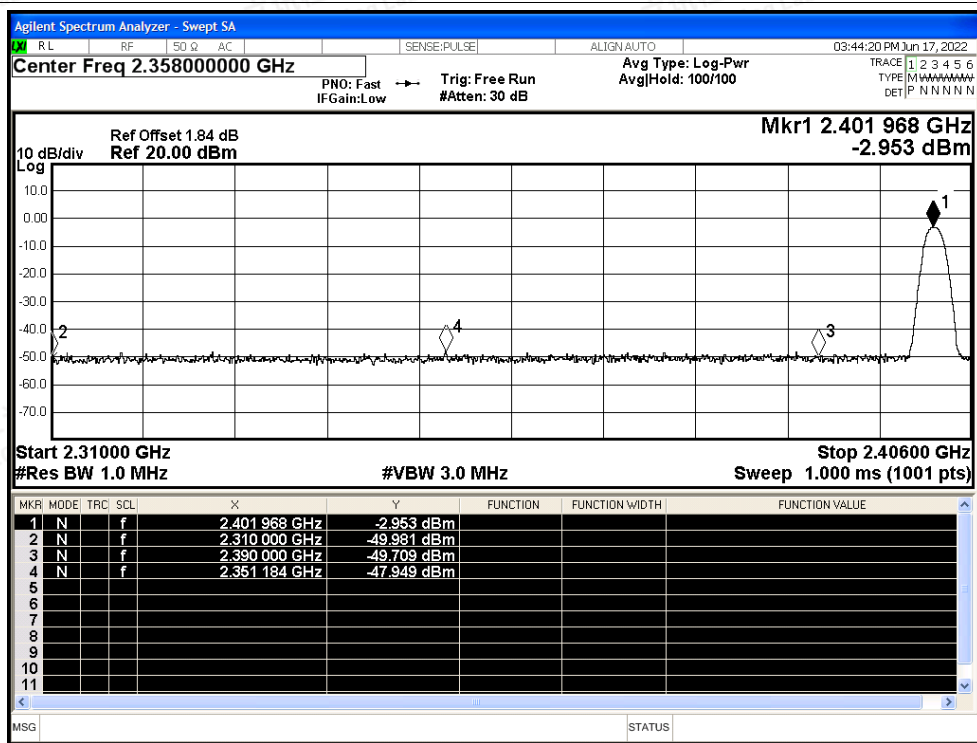


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

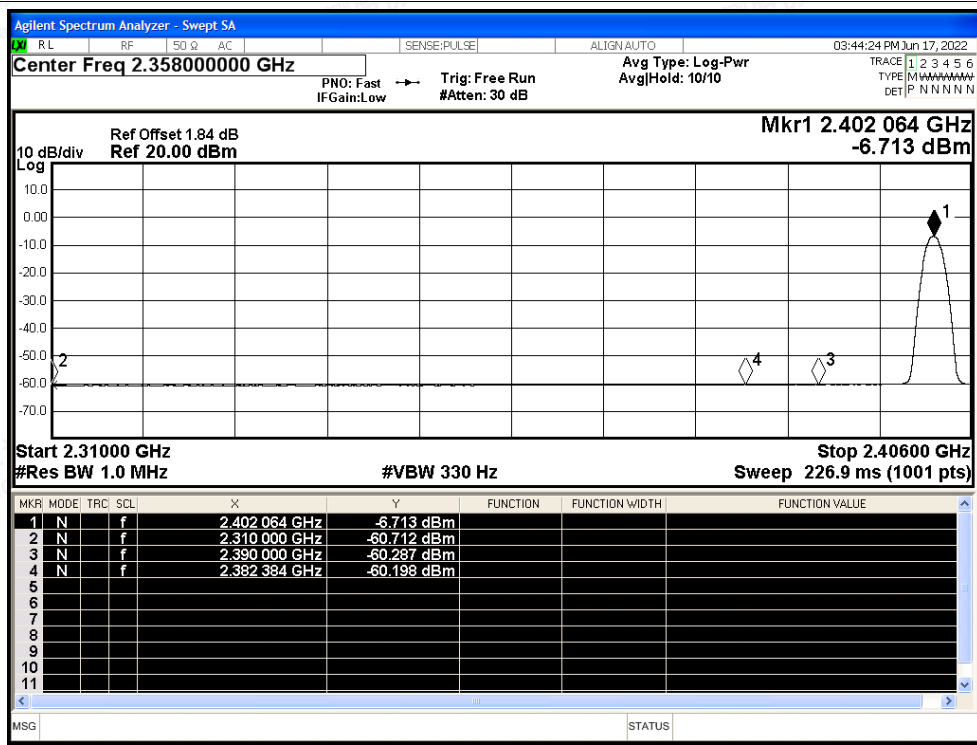




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

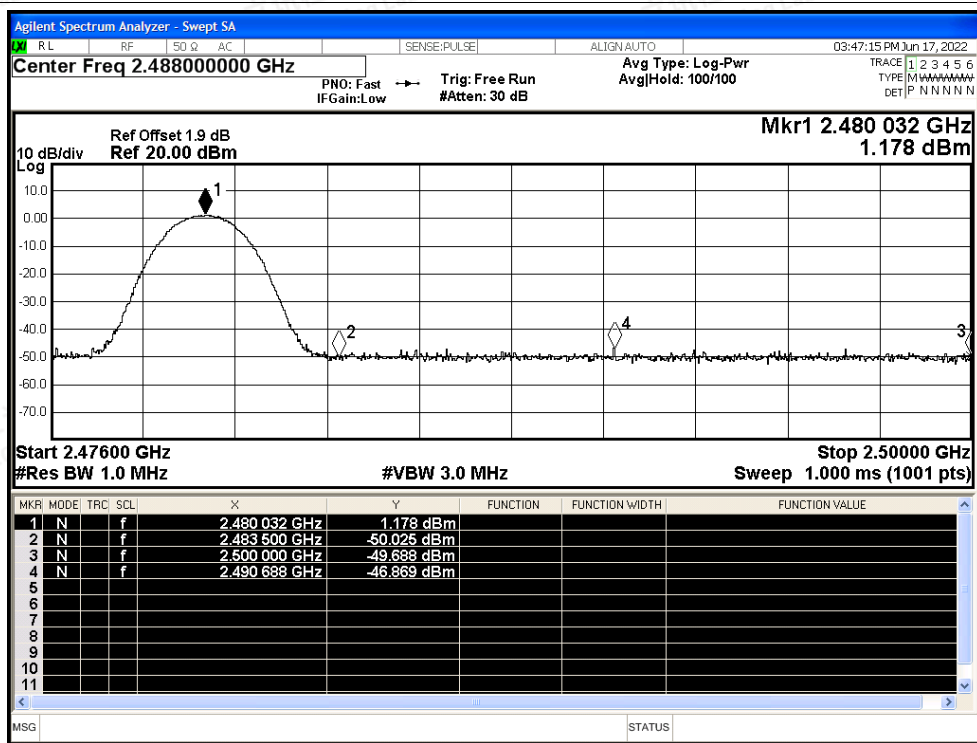


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

