

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smartphone

Test Model: Vision Plus



立讯检测股份
LCS Testing Lab



立讯检测股份
LCS Testing Lab



立讯检测股份
LCS Testing Lab

Environmental Conditions

Temperature:	23.4° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan



立讯检测股份
LCS Testing Lab



立讯检测股份
LCS Testing Lab



立讯检测股份
LCS Testing Lab



立讯检测股份
LCS Testing Lab



立讯检测股份
LCS Testing Lab



立讯检测股份
LCS Testing Lab



立讯检测股份
LCS Testing Lab



立讯检测股份
LCS Testing Lab



立讯检测股份
LCS Testing Lab



立讯检测股份
LCS Testing Lab



立讯检测股份
LCS Testing Lab





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.986	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.94	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.011	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.284	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.282	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.281	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.299	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.292	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.289	N/A	Pass

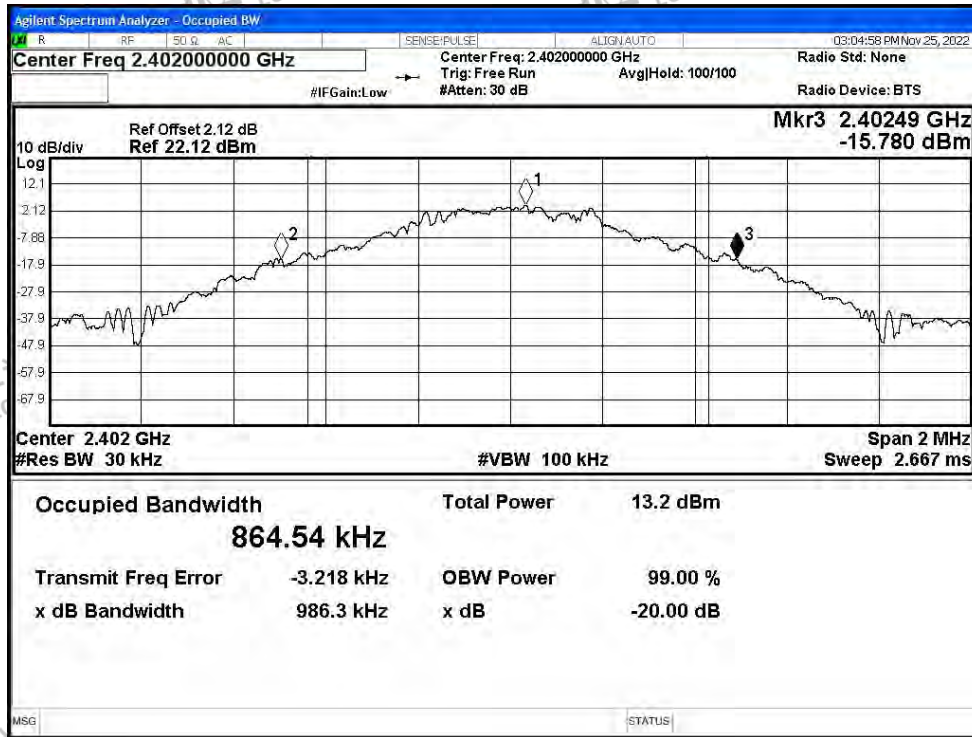


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

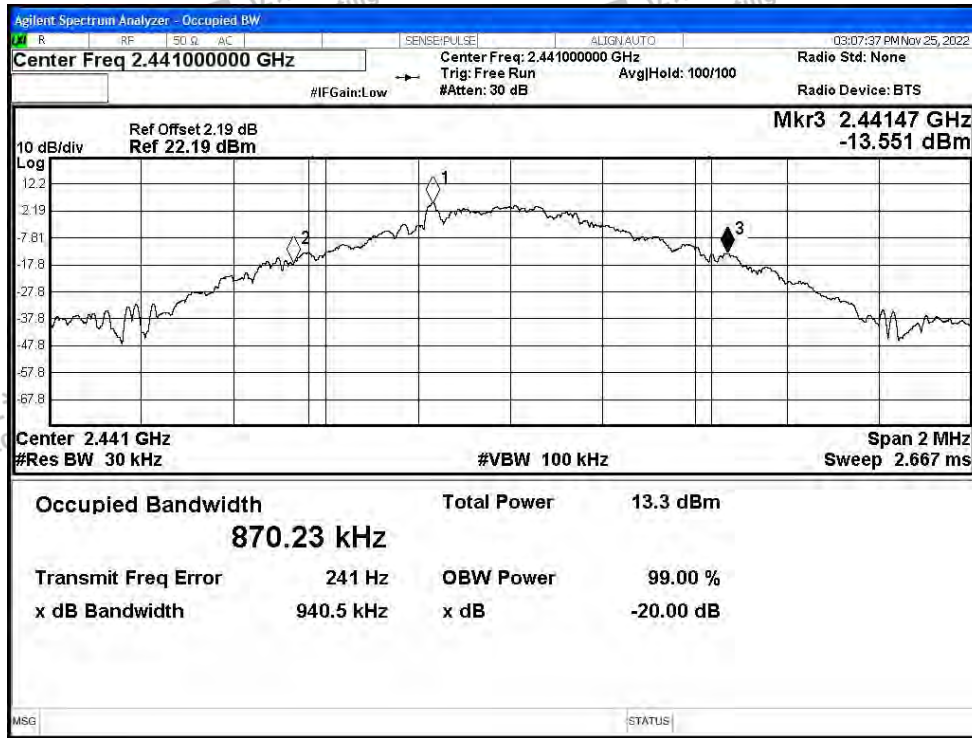


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

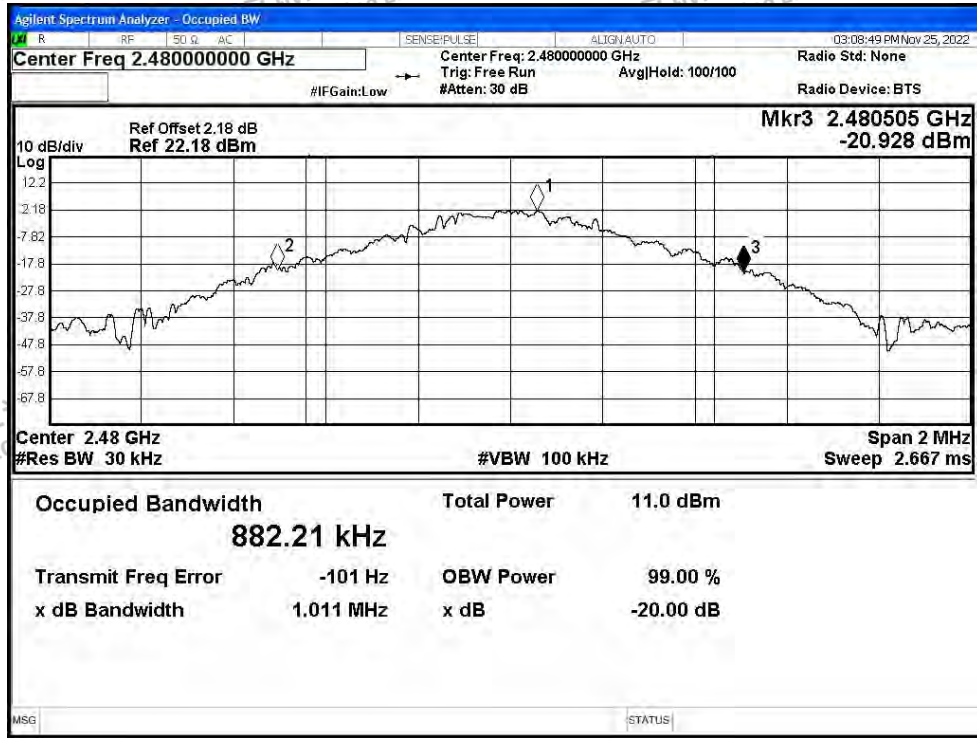


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

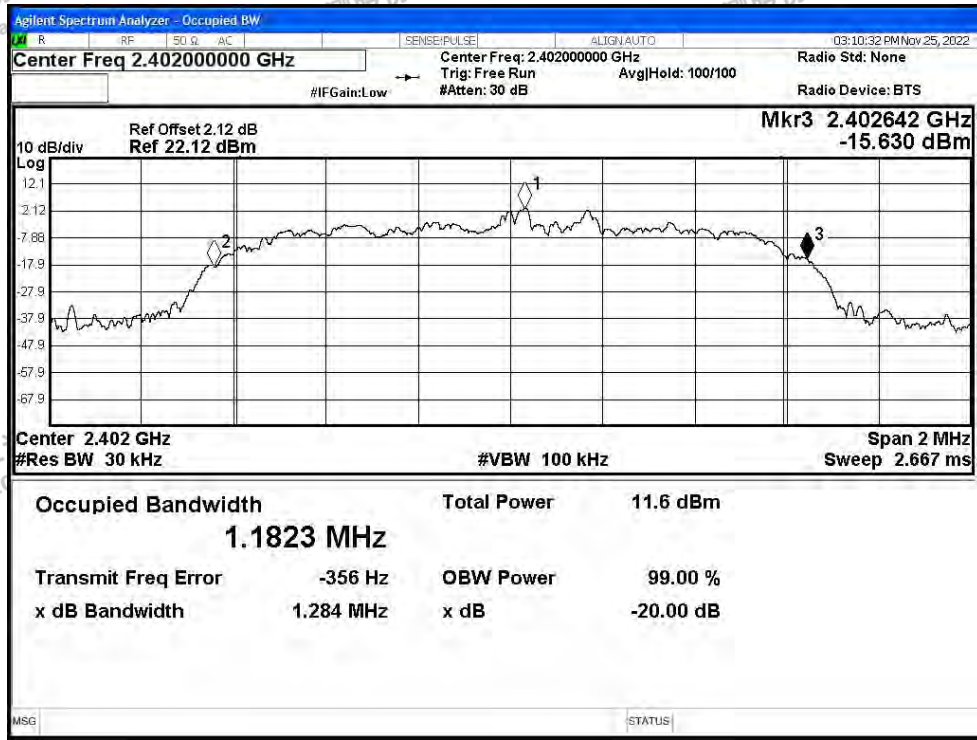




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

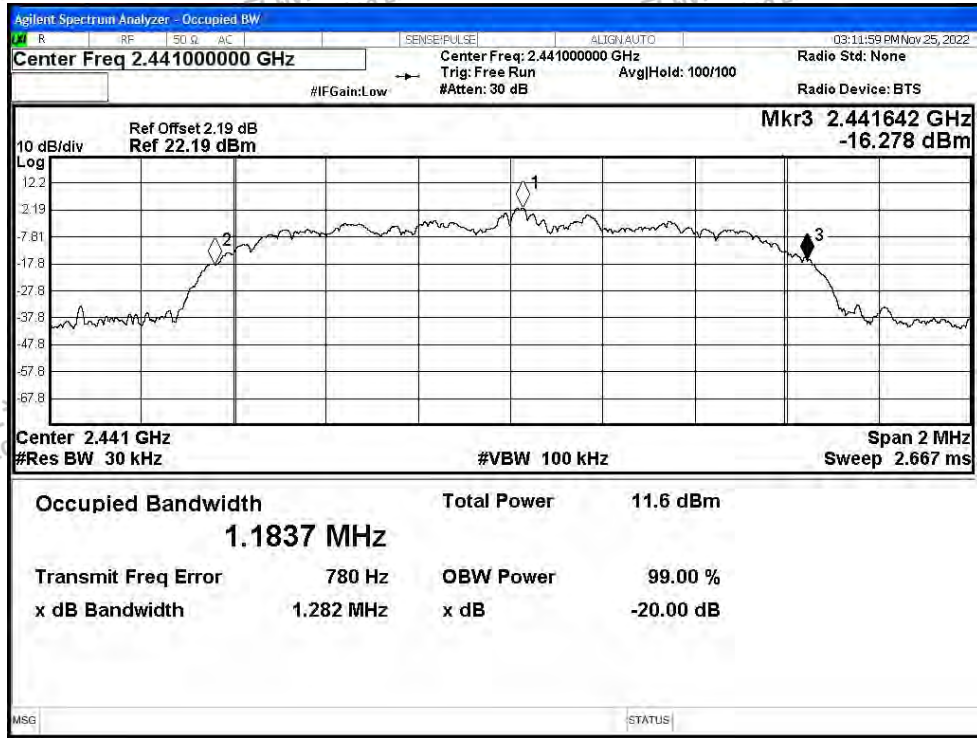


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

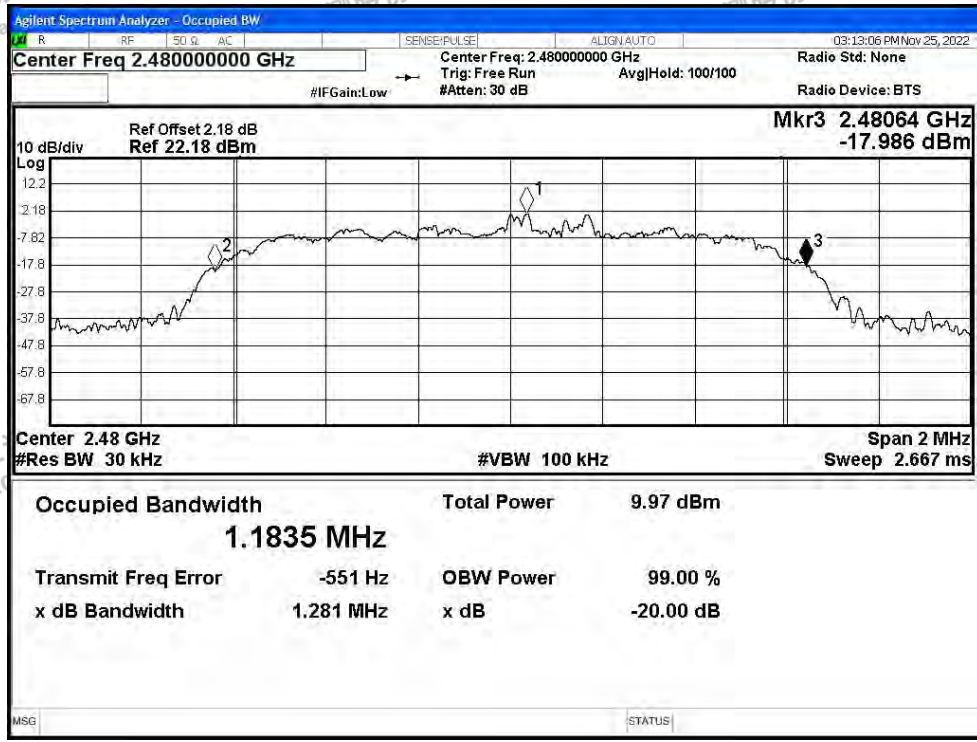




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

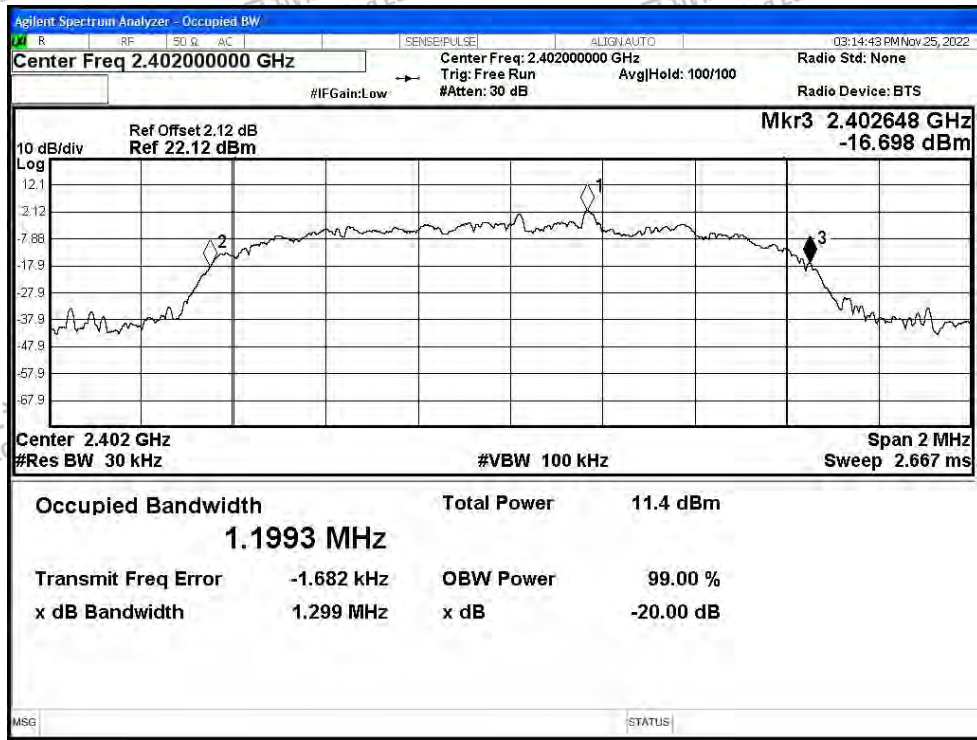


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

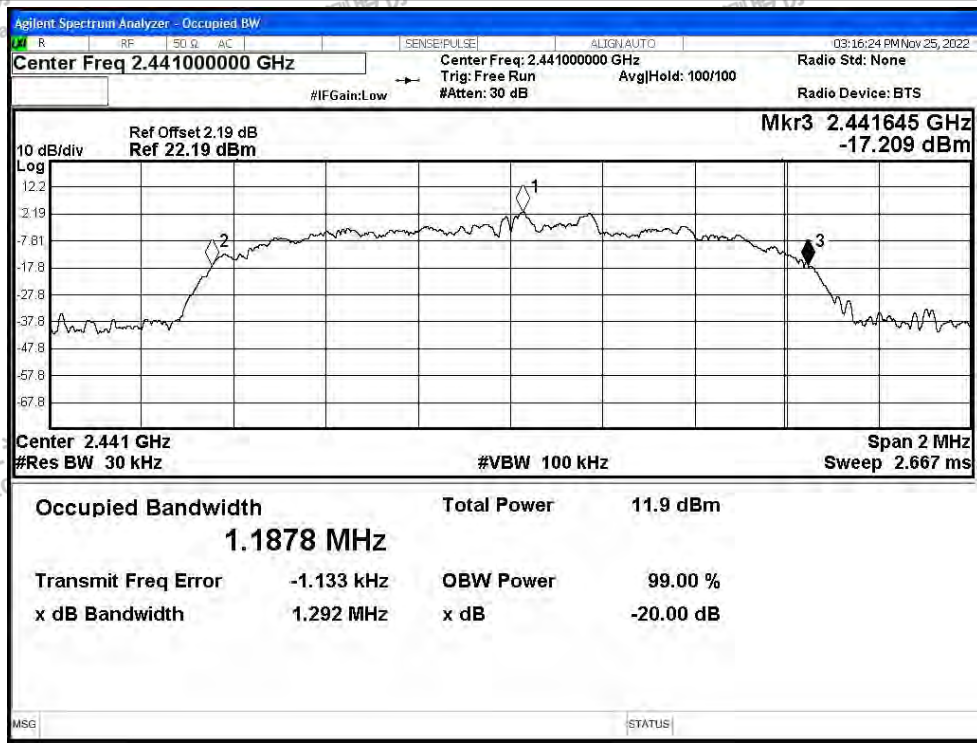




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

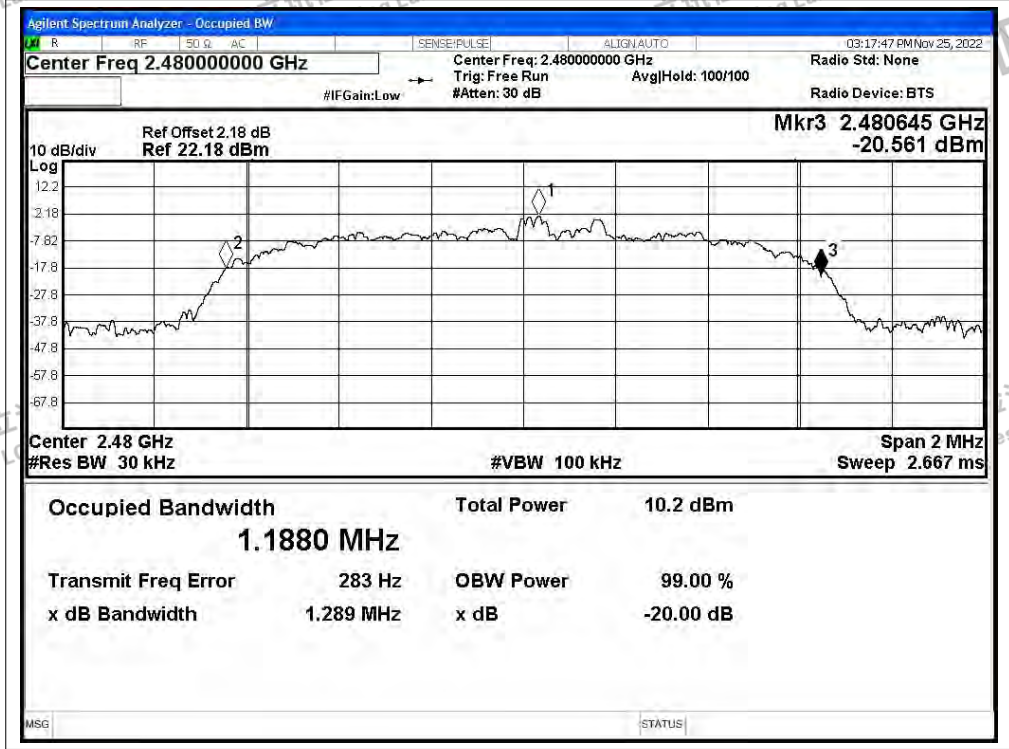


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



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.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	6.63	21	Pass
NVNT	1-DH5	2441	Ant1	6.83	21	Pass
NVNT	1-DH5	2480	Ant1	4.79	21	Pass
NVNT	2-DH5	2402	Ant1	6.91	21	Pass
NVNT	2-DH5	2441	Ant1	6.9	21	Pass
NVNT	2-DH5	2480	Ant1	5.3	21	Pass
NVNT	3-DH5	2402	Ant1	7.19	21	Pass
NVNT	3-DH5	2441	Ant1	7.23	21	Pass
NVNT	3-DH5	2480	Ant1	5.59	21	Pass

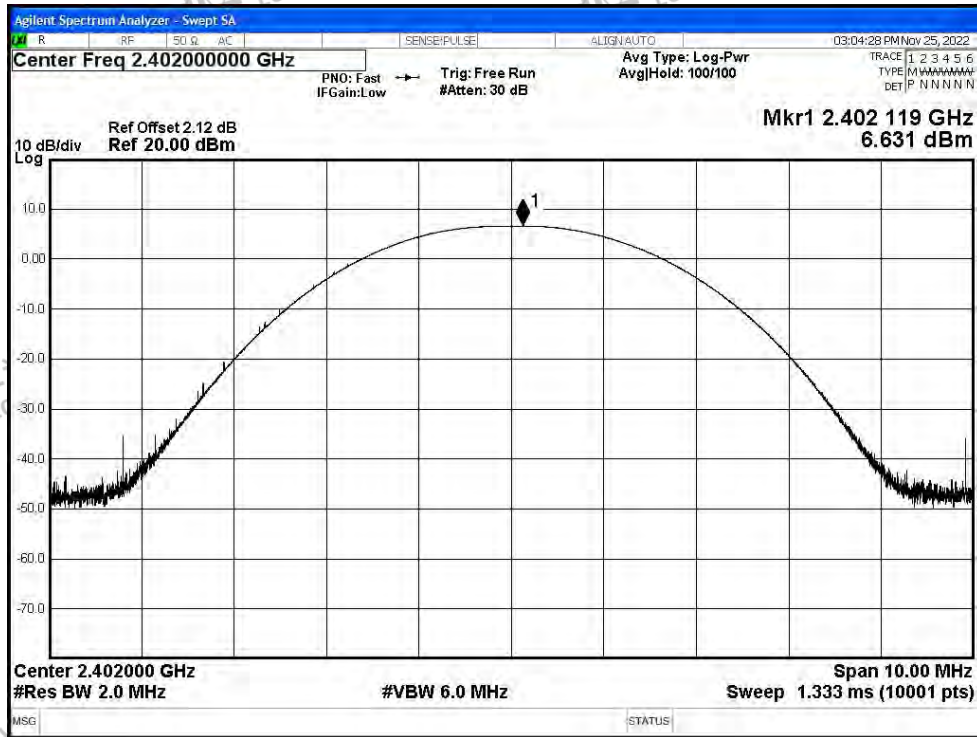


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

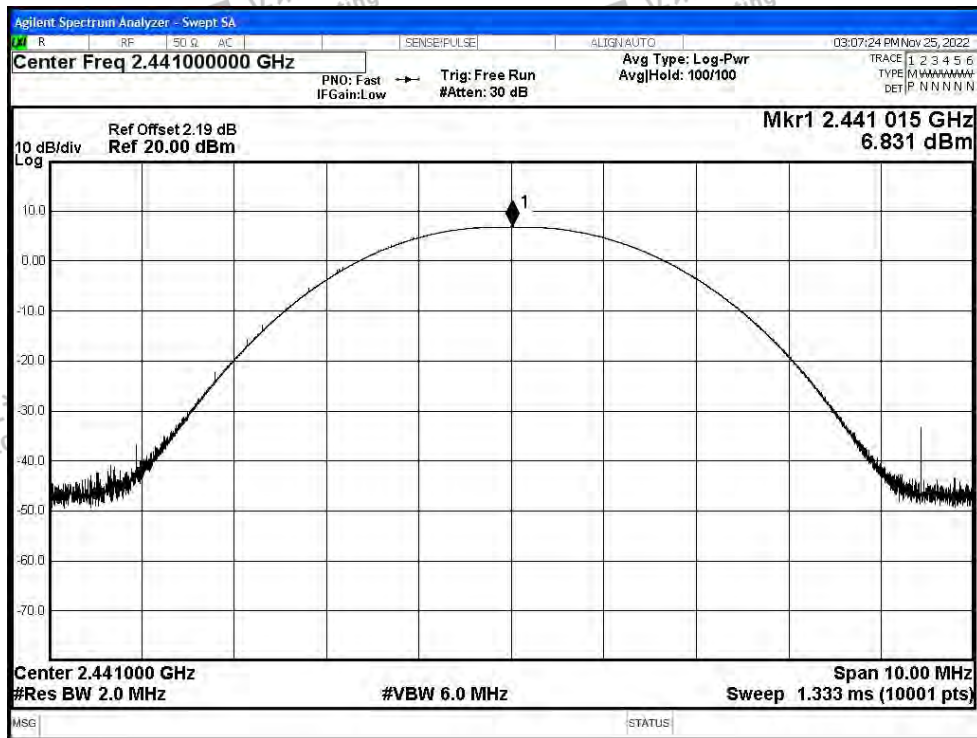


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

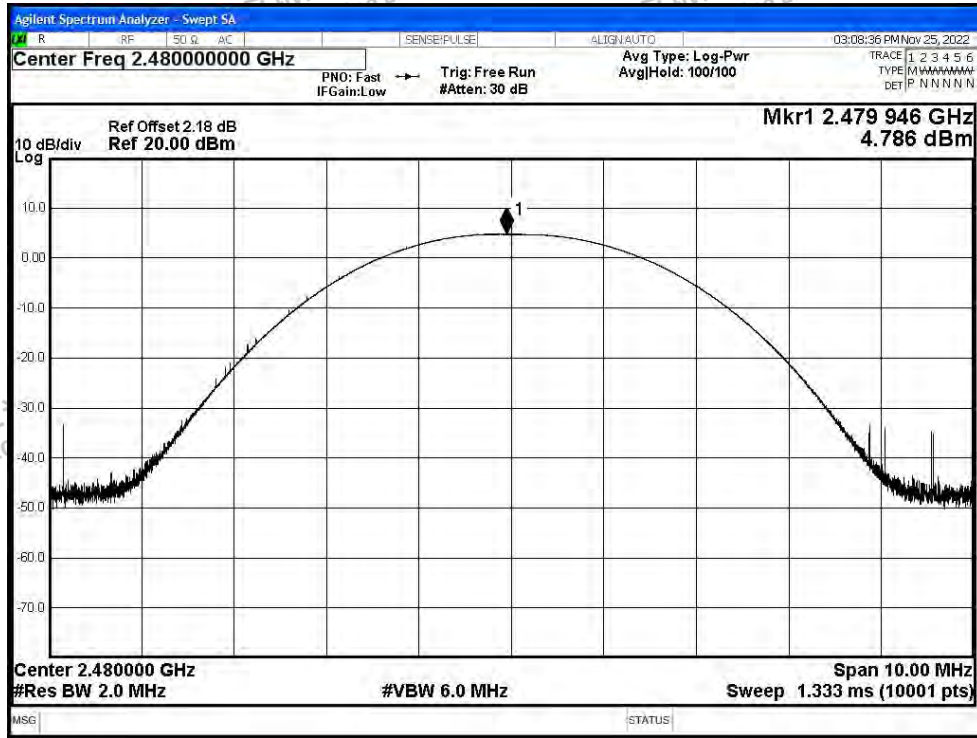


Power NVNT 1-DH5 2441MHz Ant1

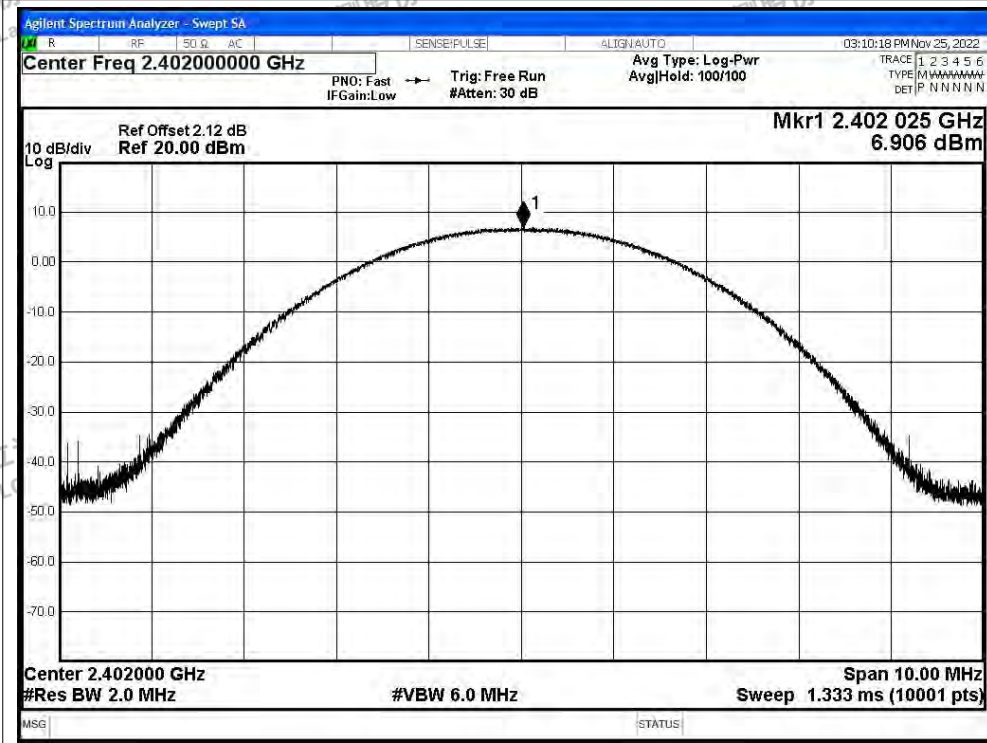




Power NVNT 1-DH5 2480MHz Ant1

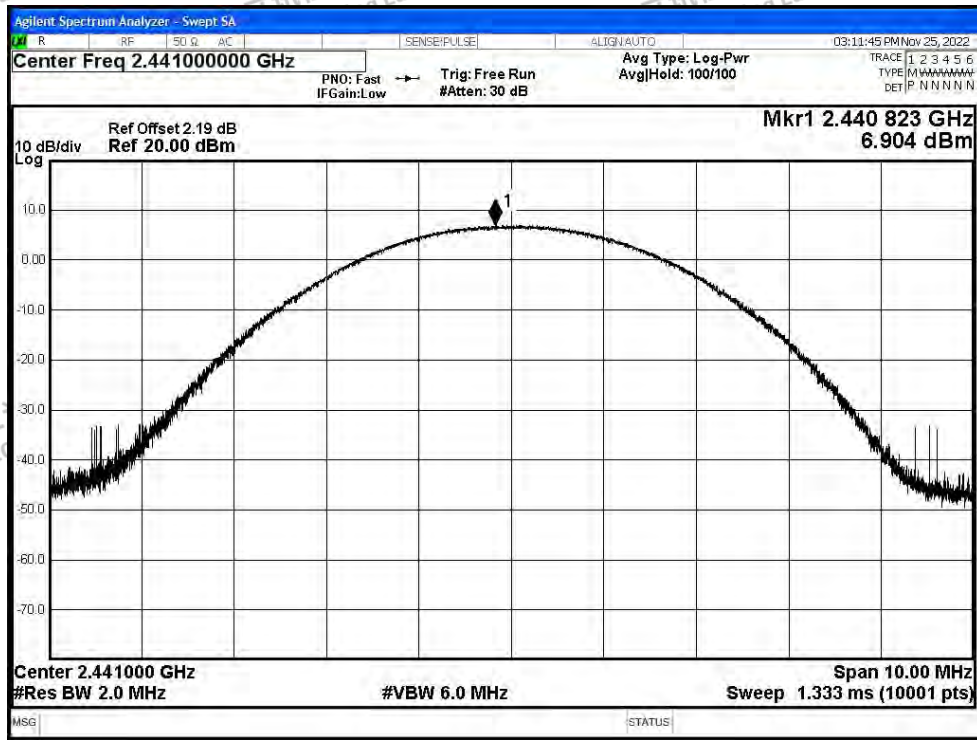


Power NVNT 2-DH5 2402MHz Ant1

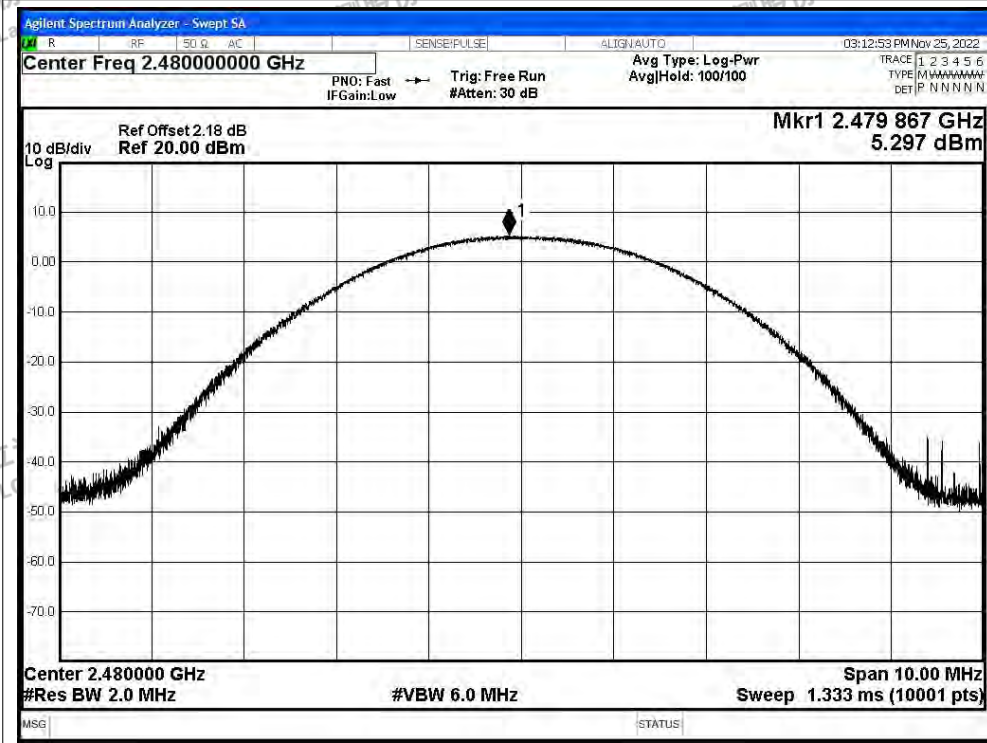




Power NVNT 2-DH5 2441MHz Ant1

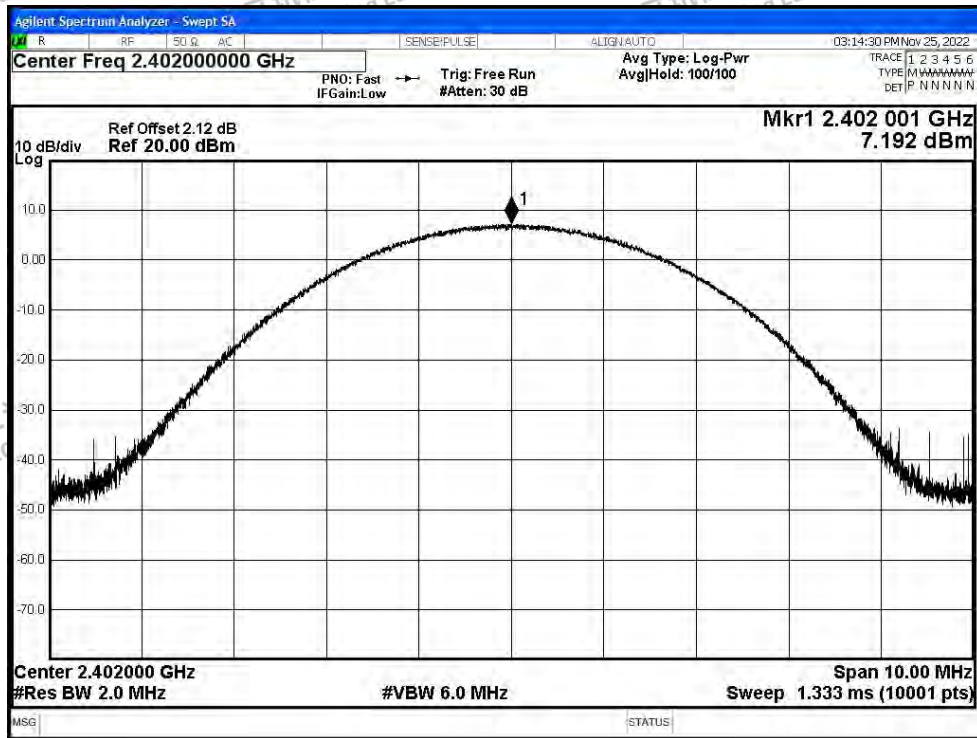


Power NVNT 2-DH5 2480MHz Ant1

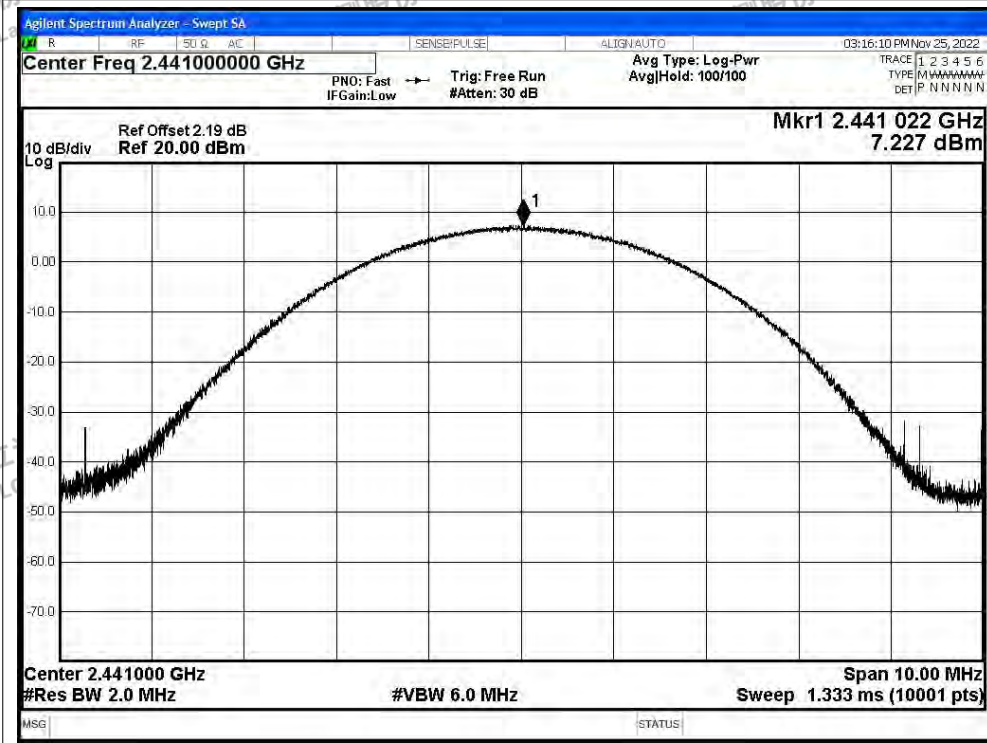




Power NVNT 3-DH5 2402MHz Ant1

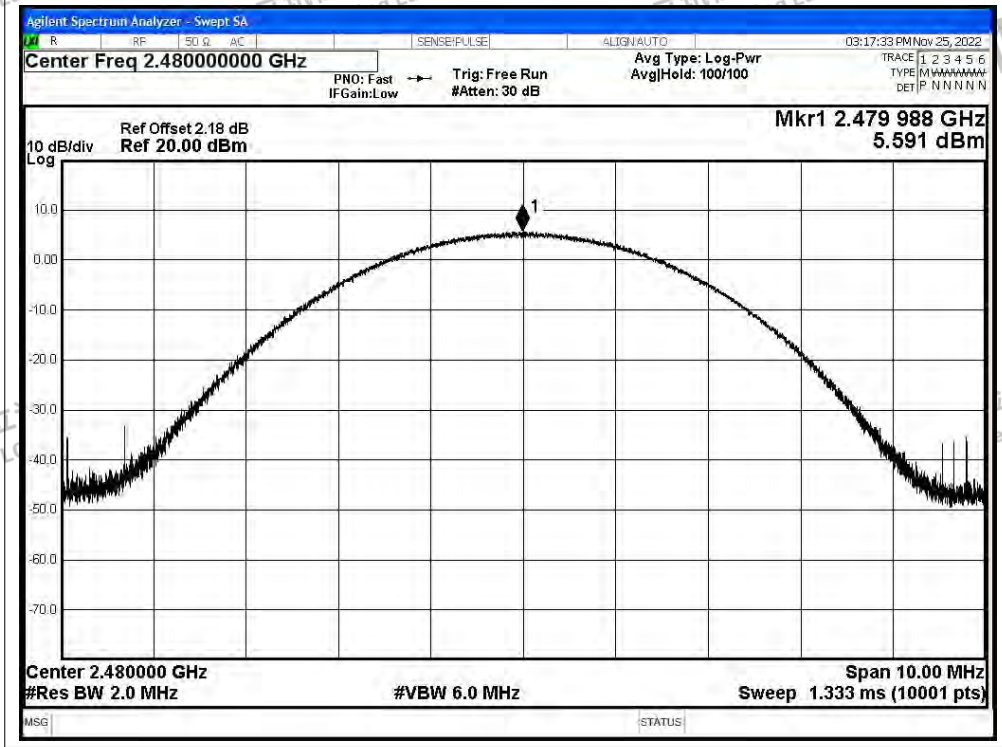


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.056	2402.994	0.938	0.674	Pass
NVNT	2-DH5	Ant1	2402.02	2403.14	1.12	0.856	Pass
NVNT	3-DH5	Ant1	2402.136	2403.094	0.958	0.866	Pass

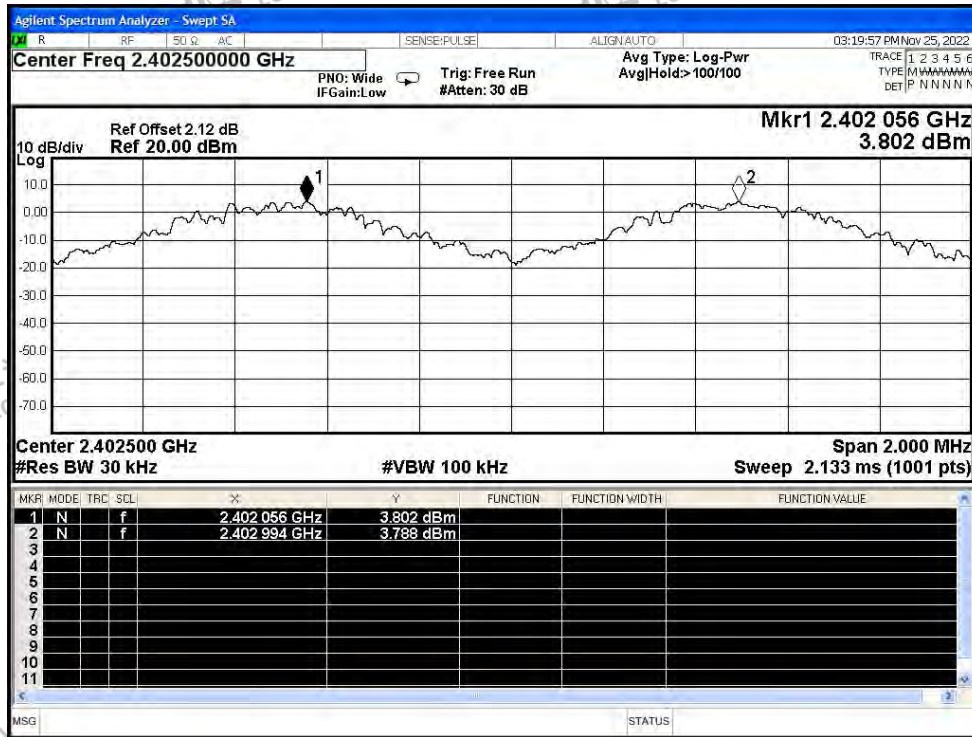


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

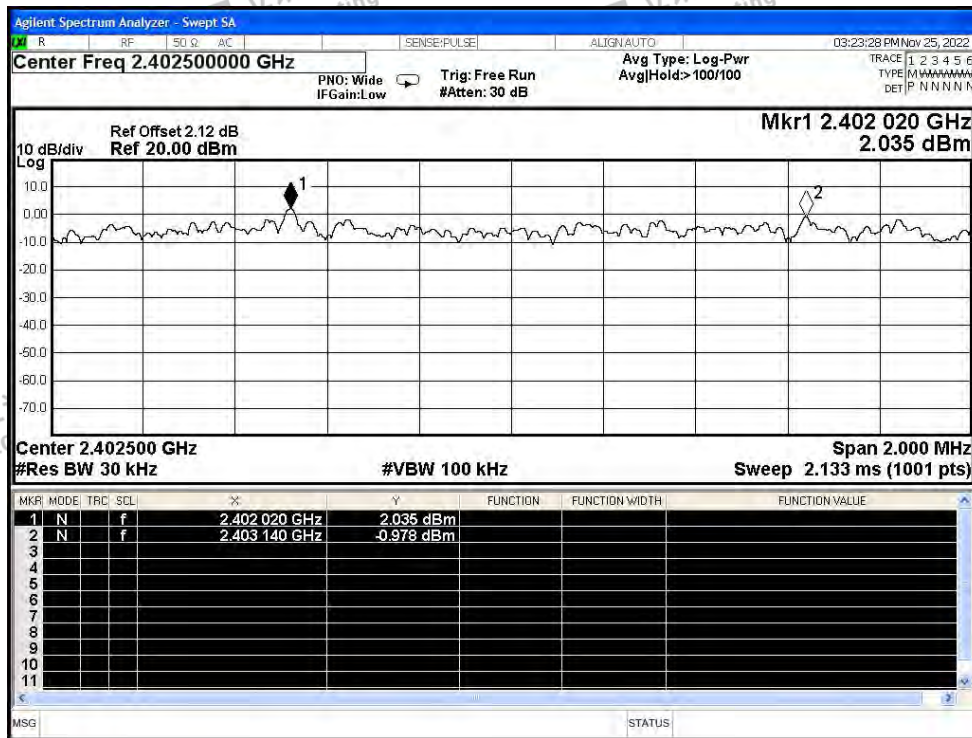


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

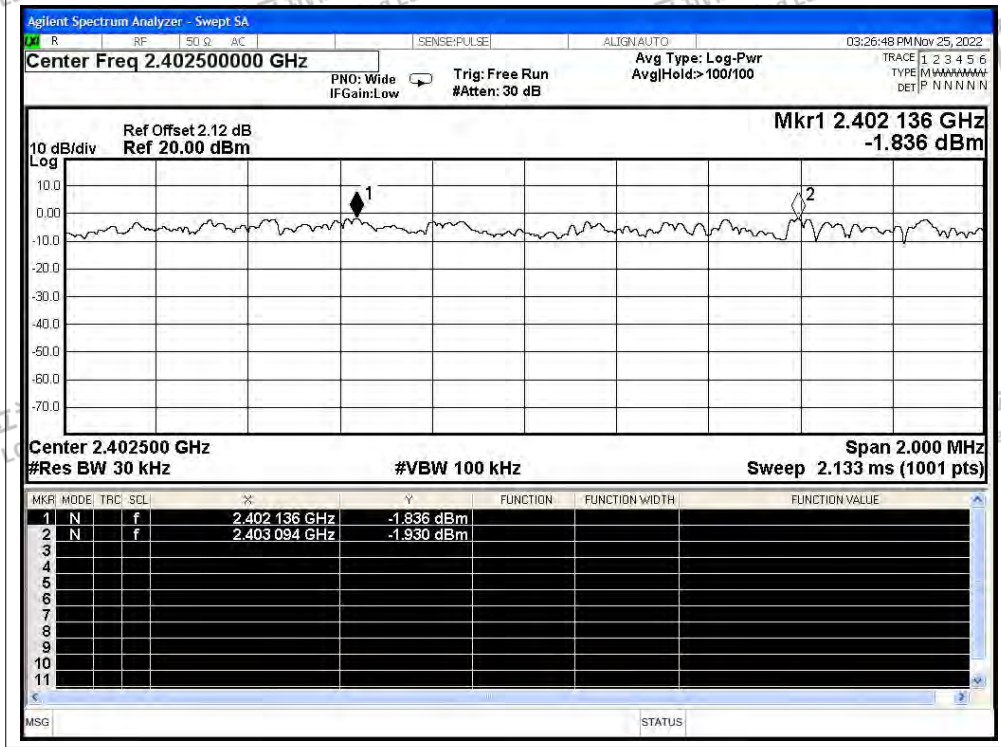


CFS NVNT 2-DH5 2402MHz Ant1





CFS NVNT 3-DH5 2402MHz Ant1





A.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

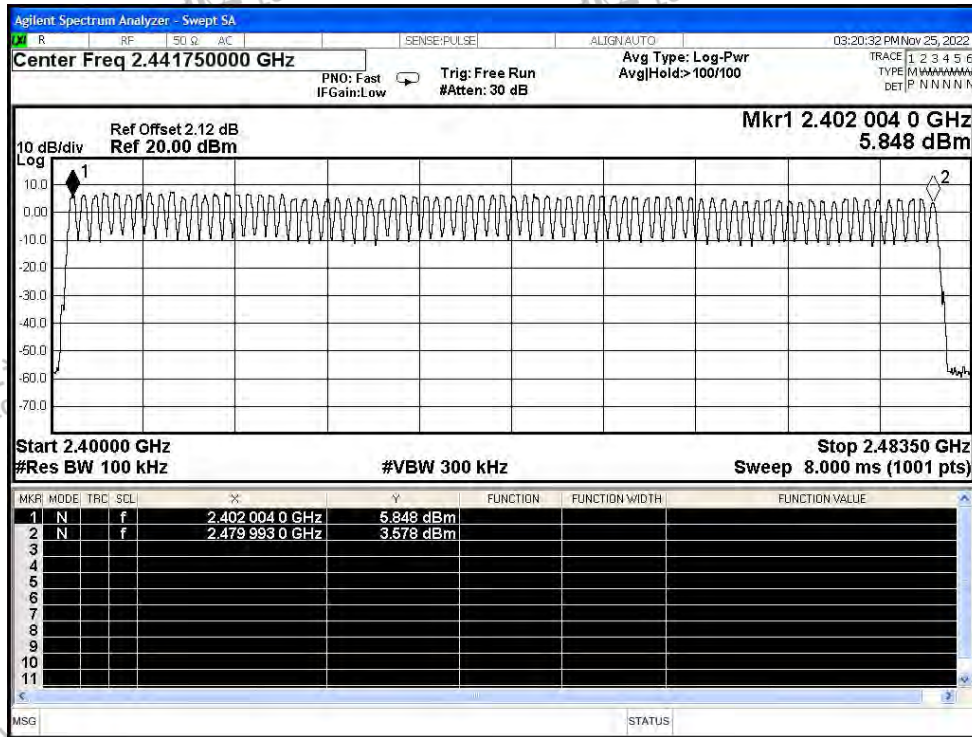


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

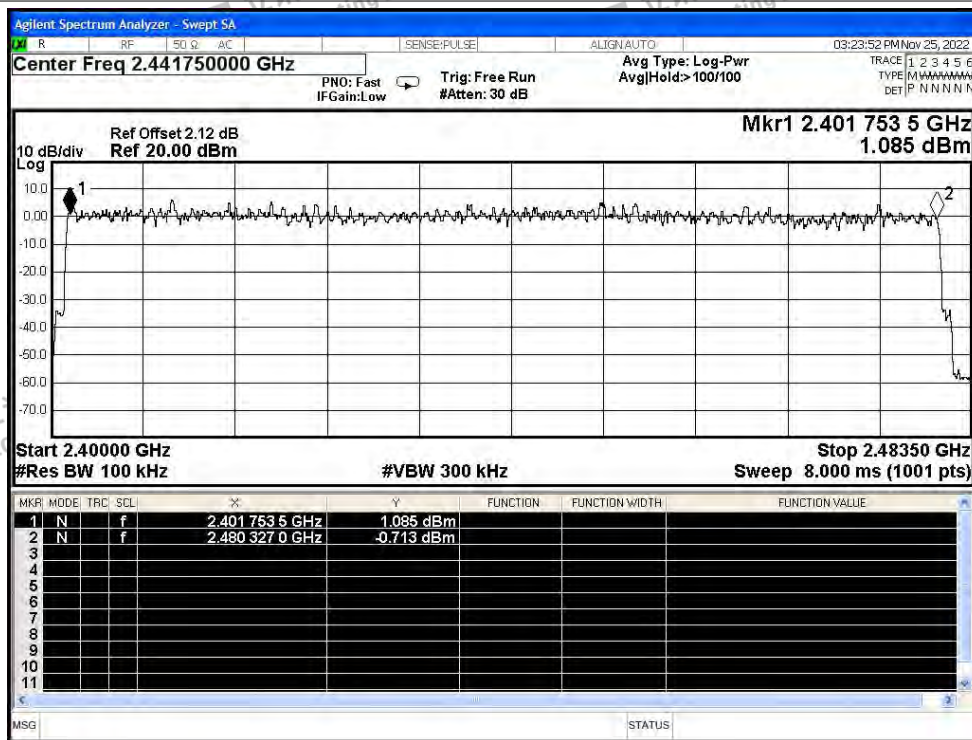


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

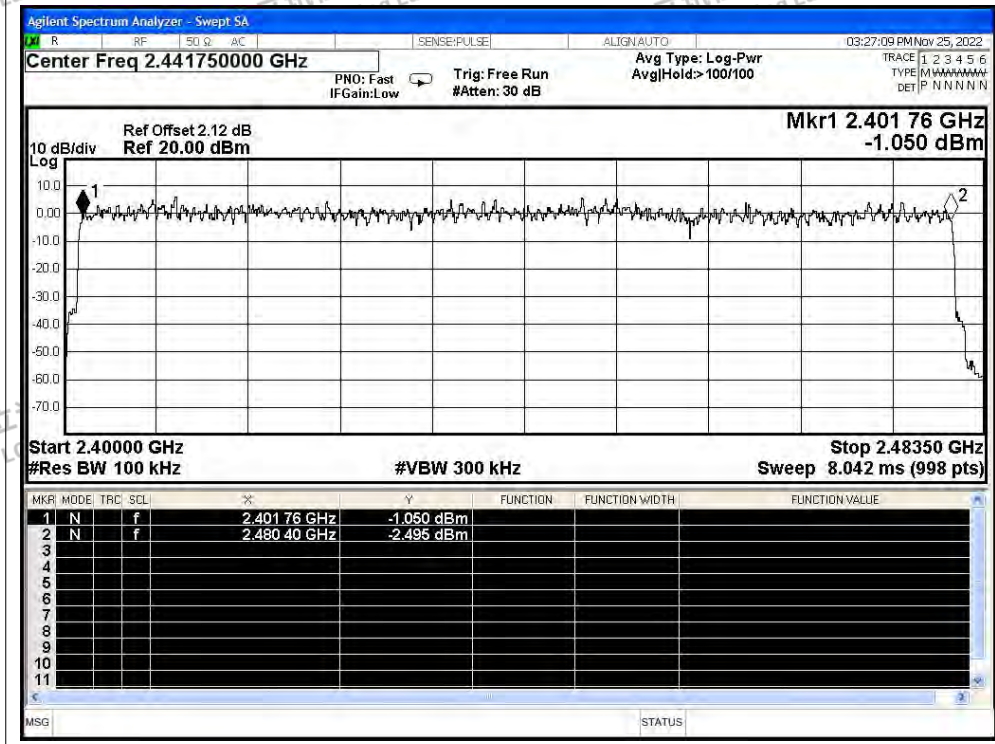


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1



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.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	317.19	109	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.899	295.698	102	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	333.155	115	31600	400	Pass

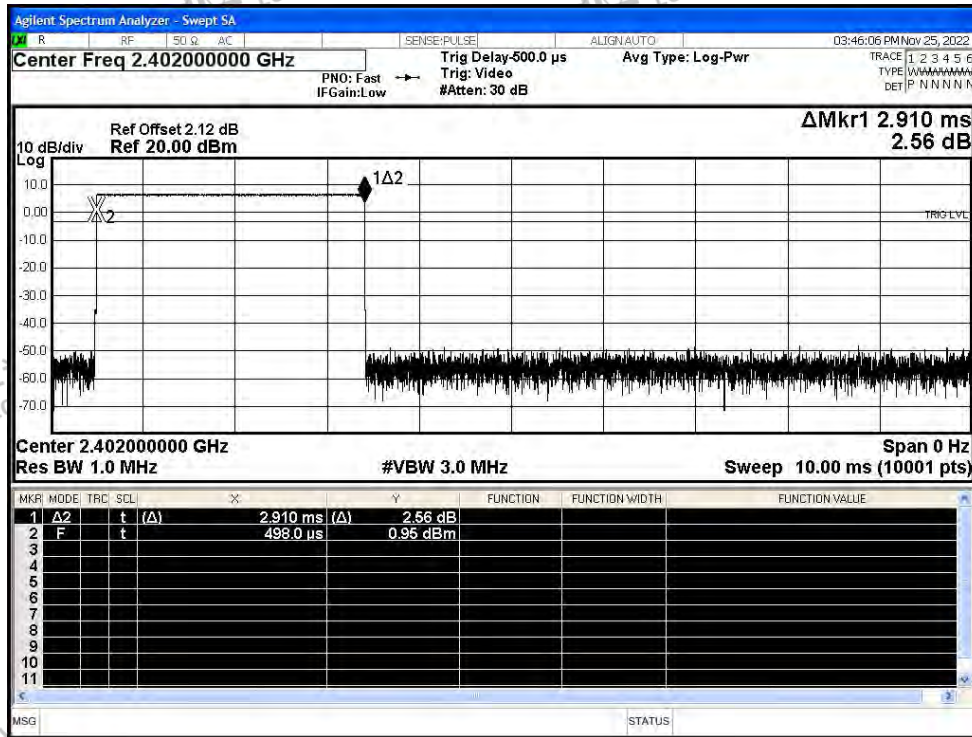


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

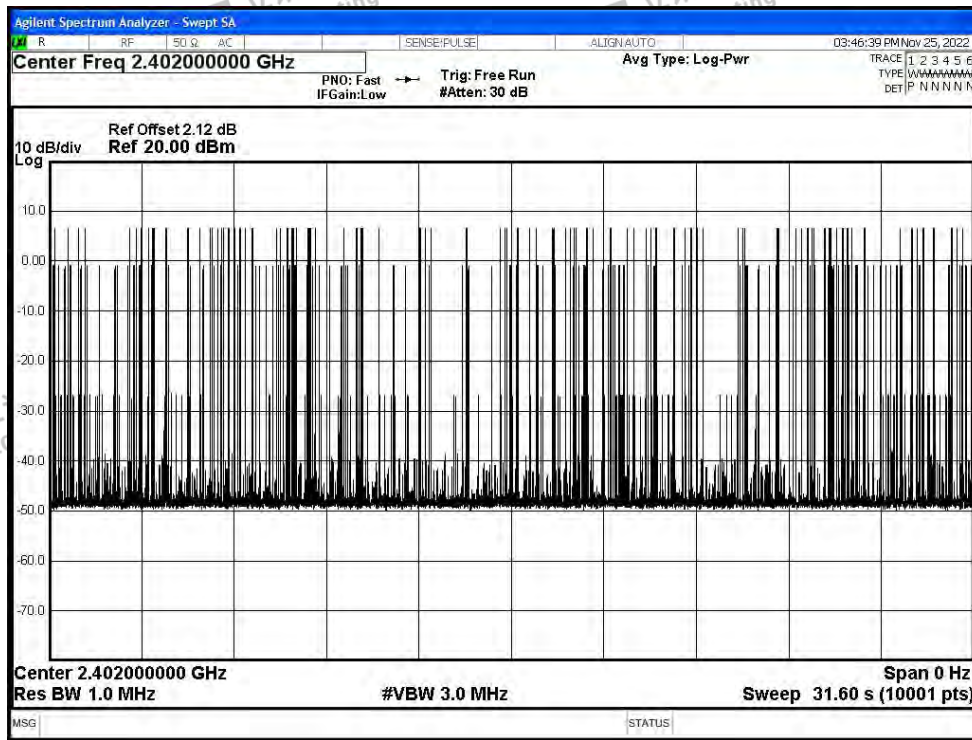


Test Graphs

Dwell-NVNT 1-DH5 2402MHz Ant1 One Burst

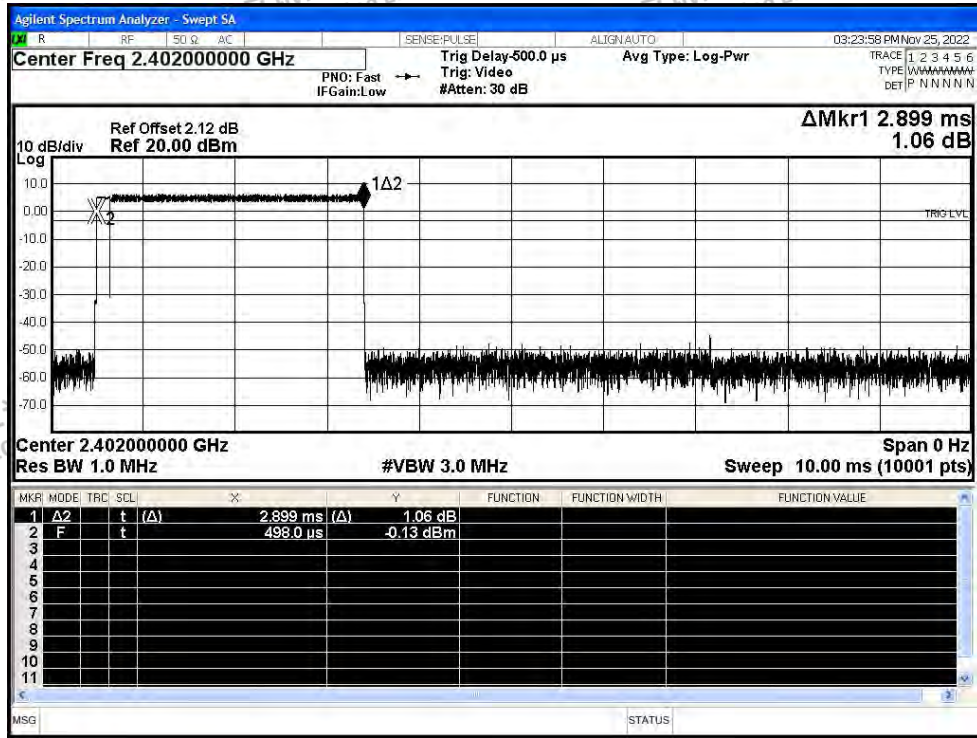


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

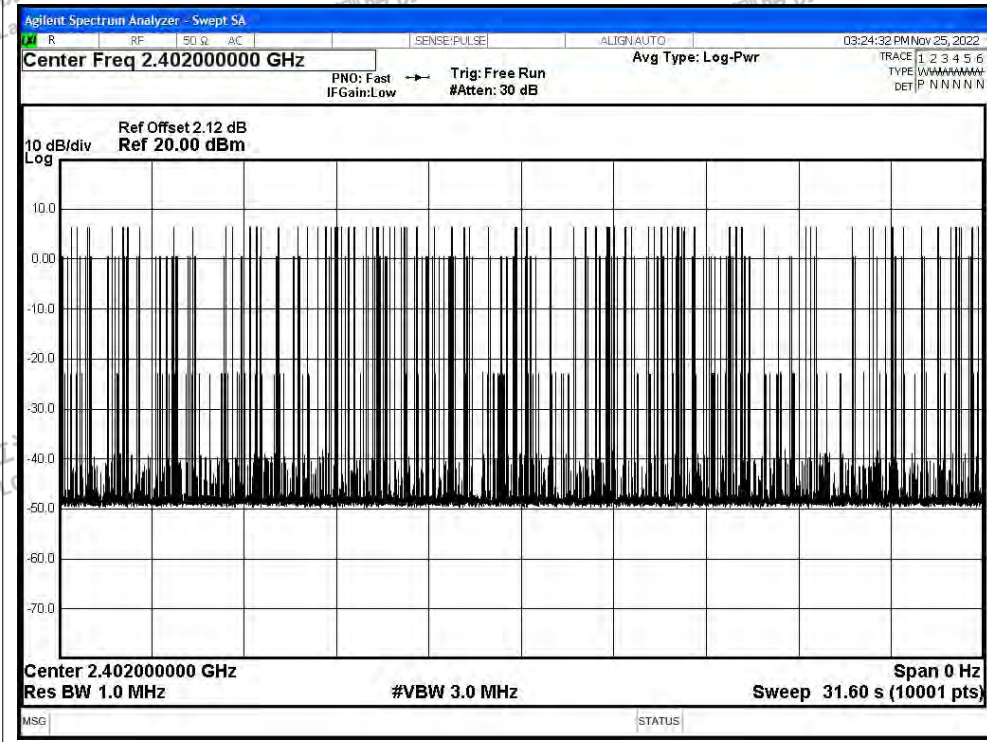




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

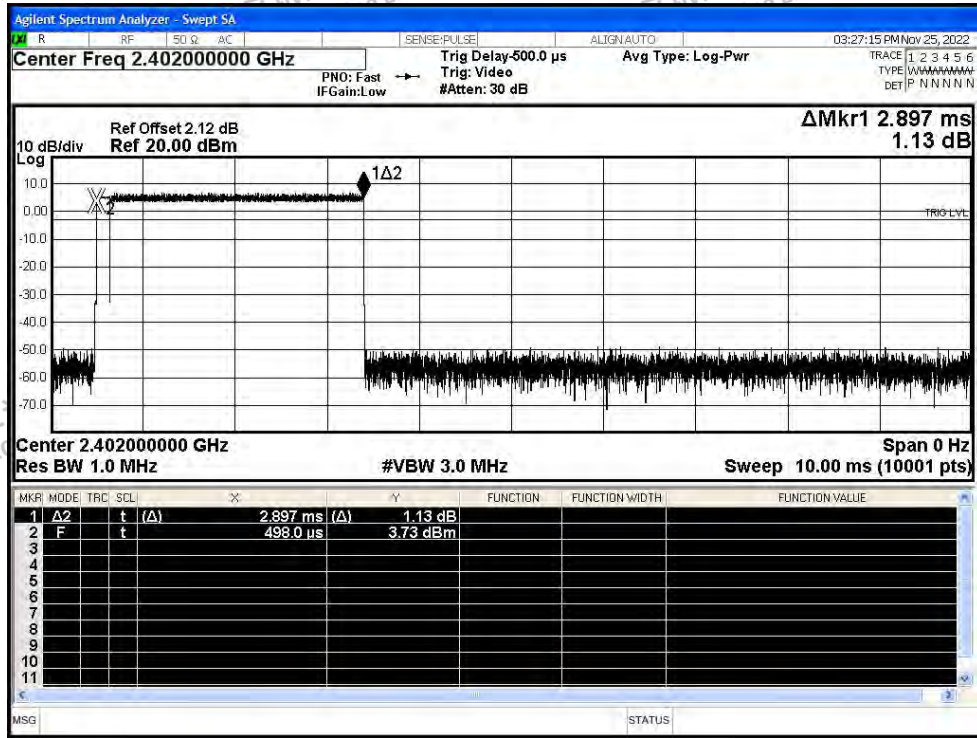


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

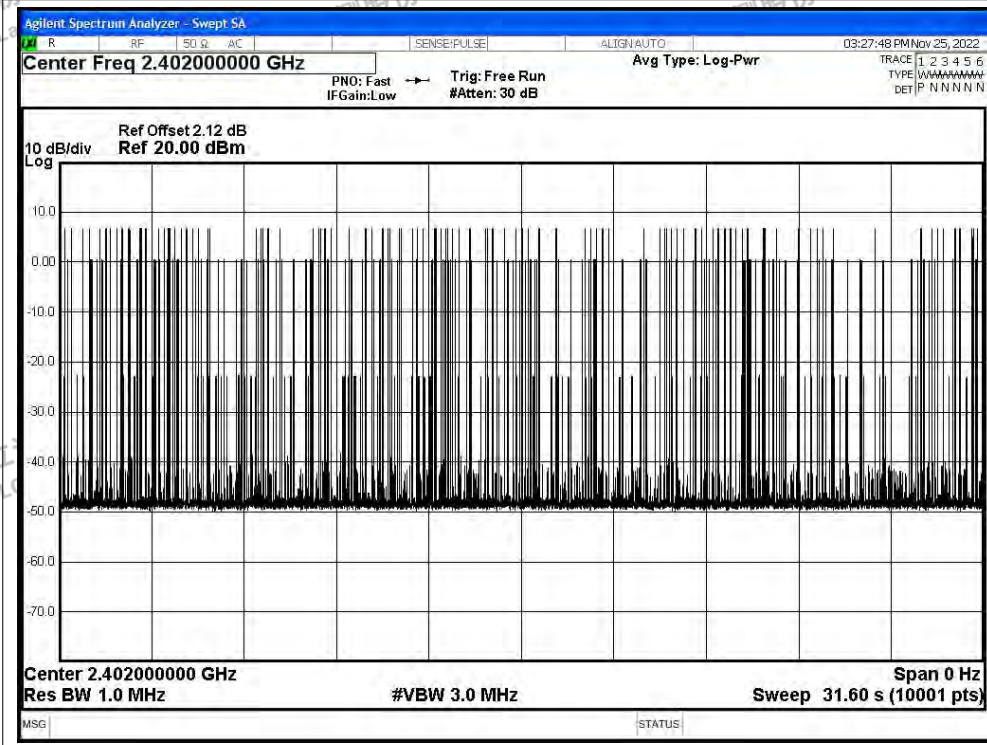




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-62.14	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-61.46	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.87	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.61	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.02	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-59.72	-20	Pass

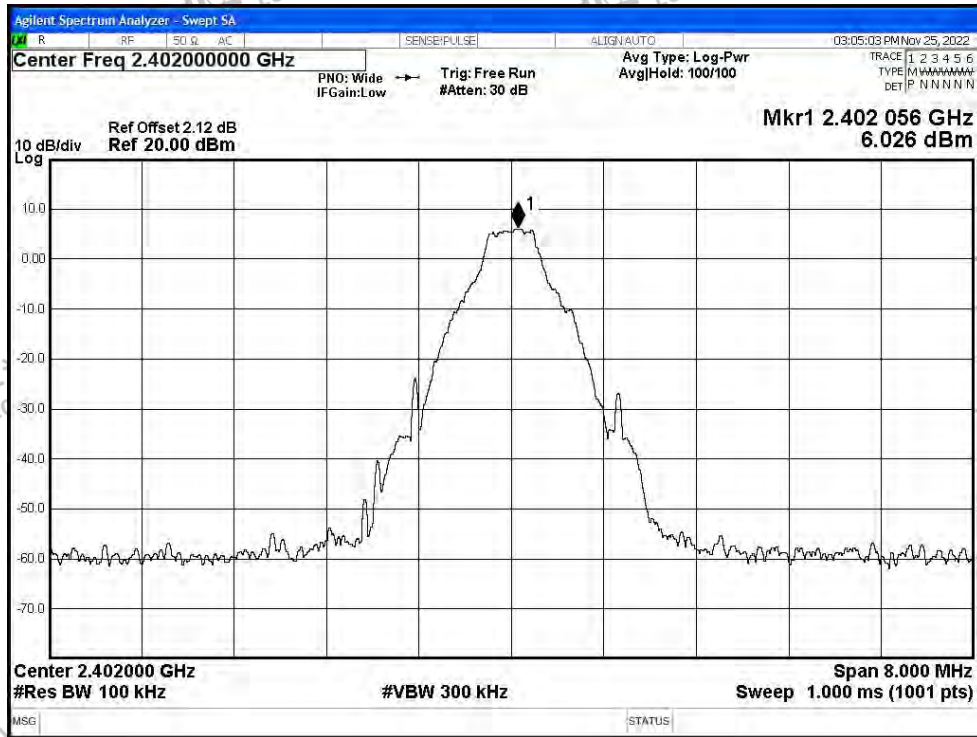


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

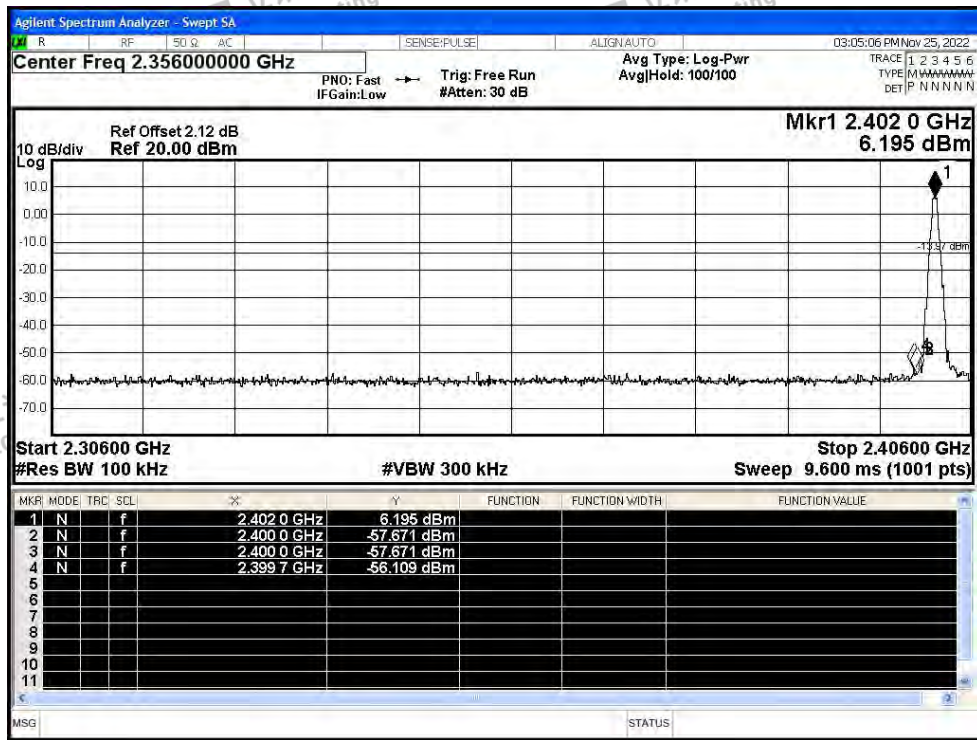


Test Graphs

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

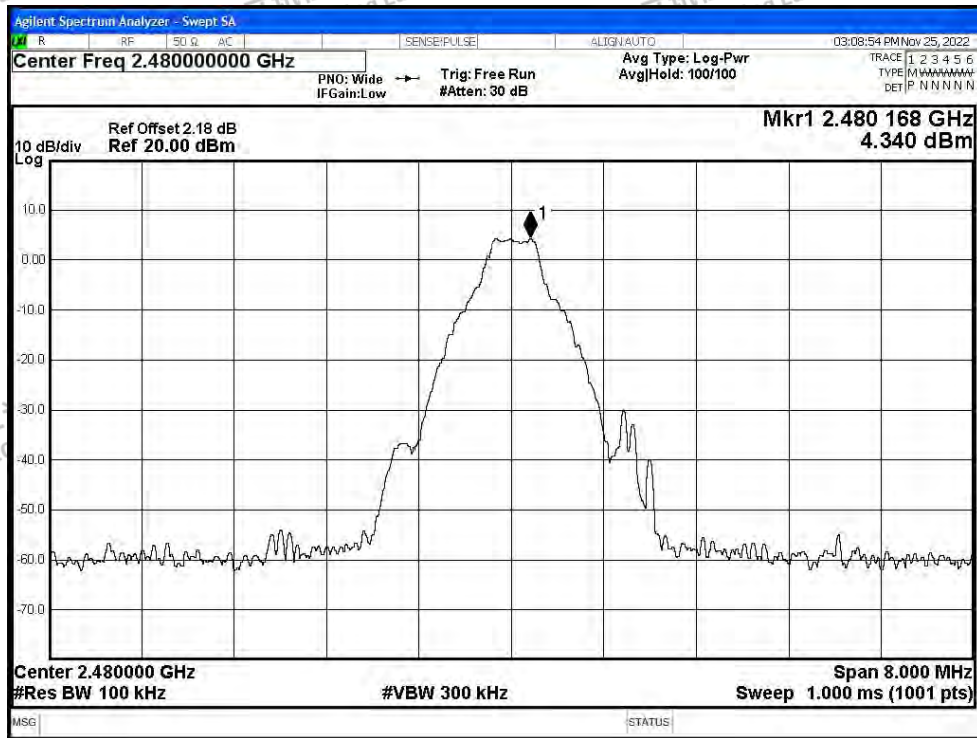


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

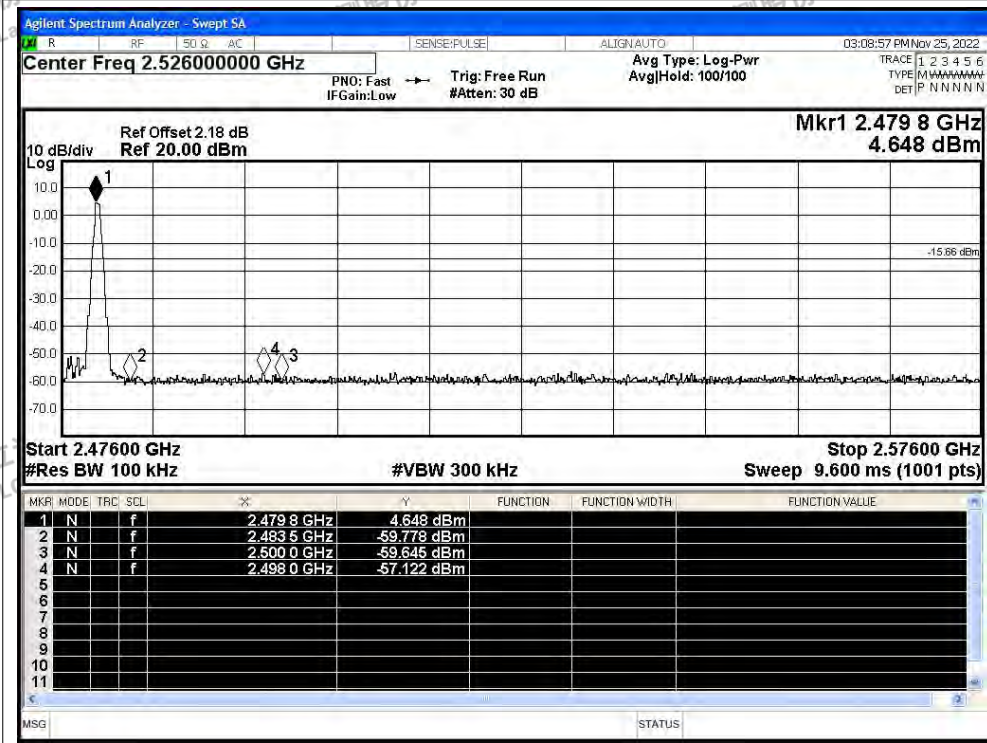




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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

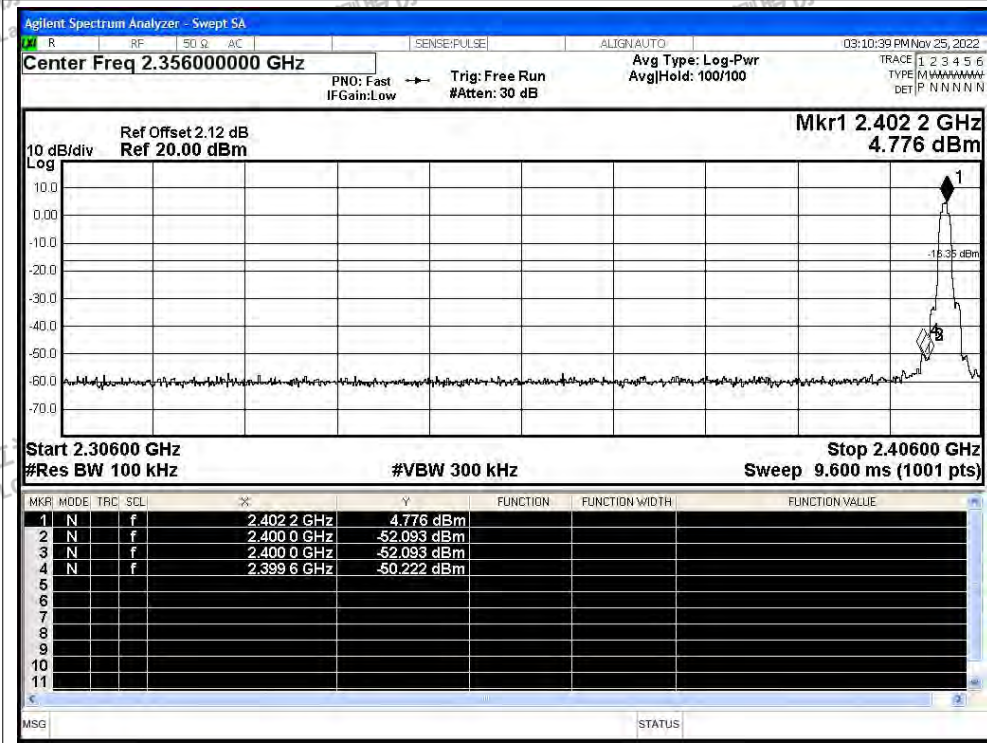




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

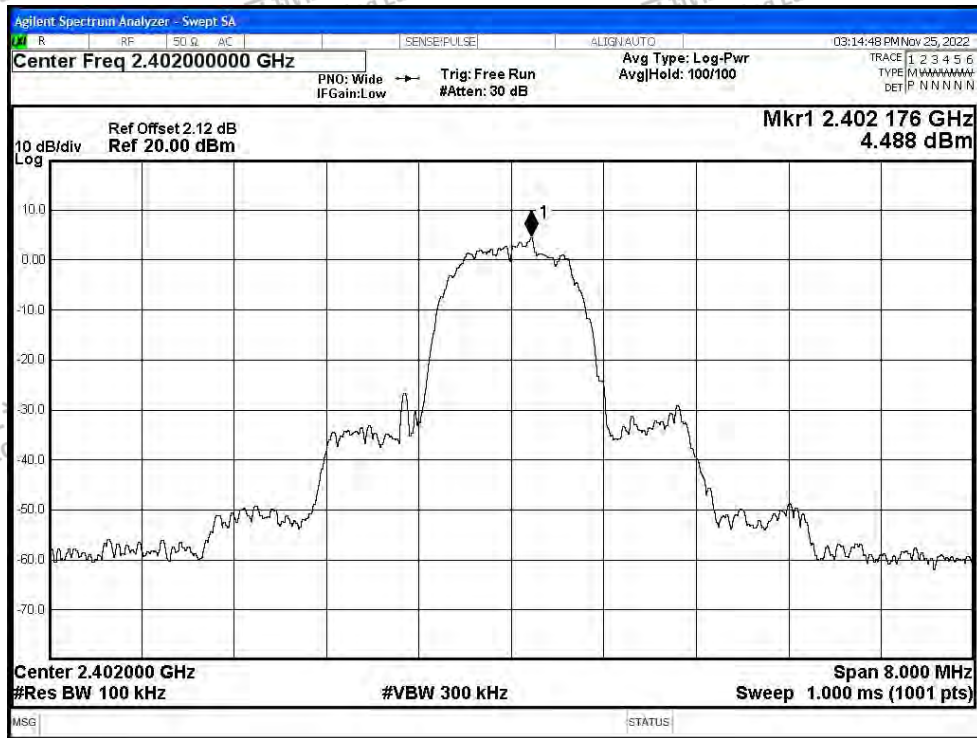


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

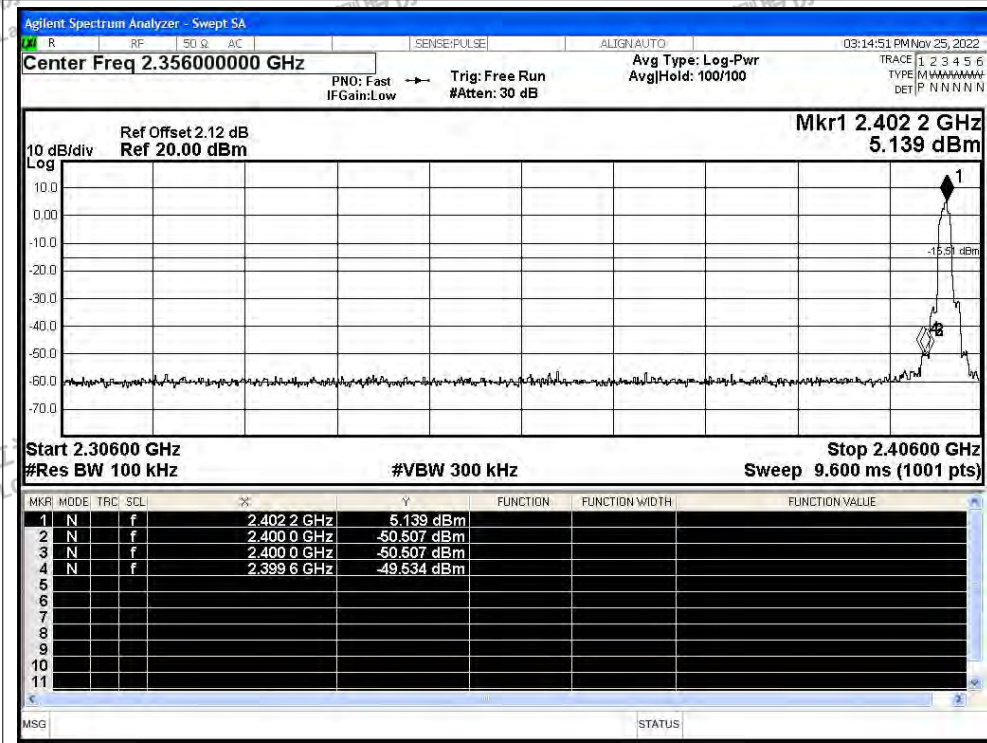




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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

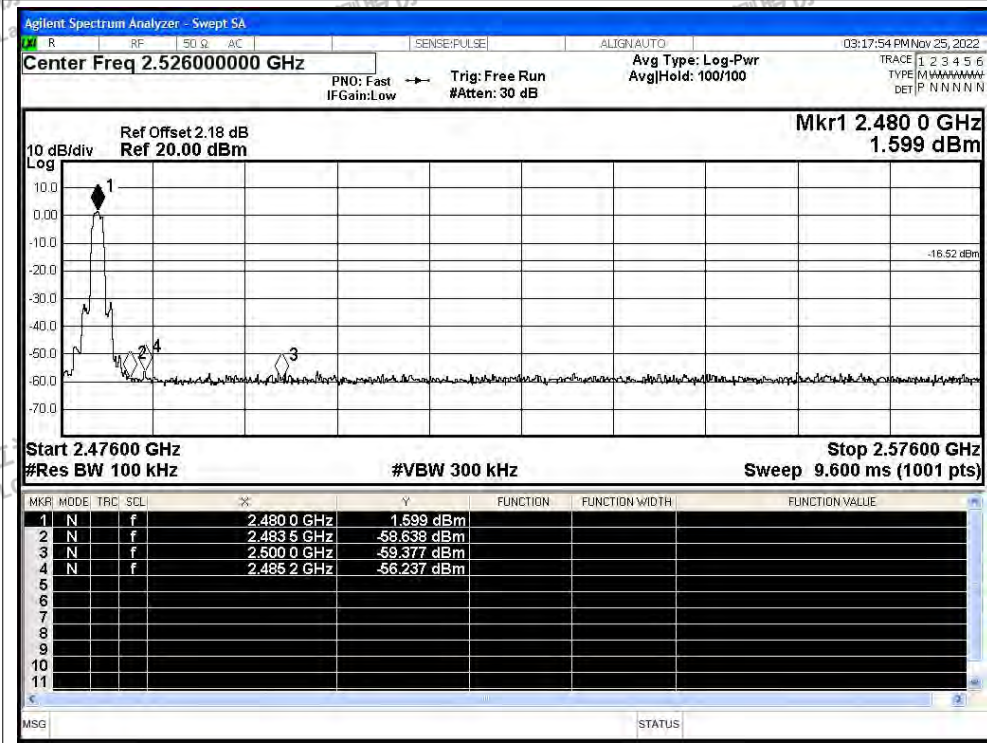




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-63.5	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-61.16	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-60.94	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-59.47	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-62.09	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.24	-20	Pass

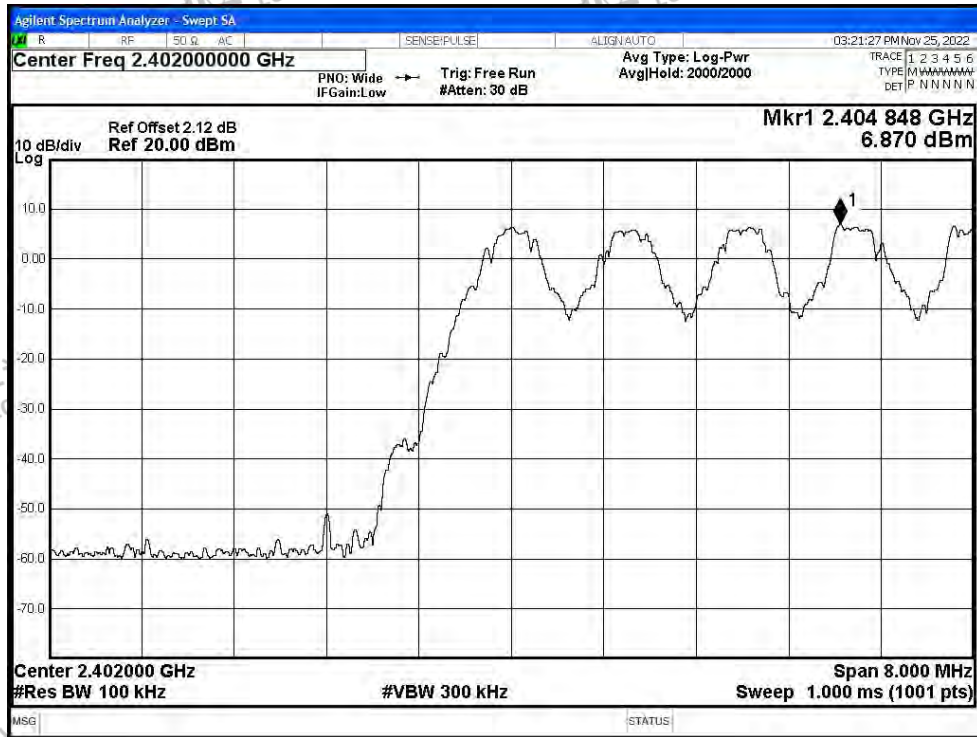


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

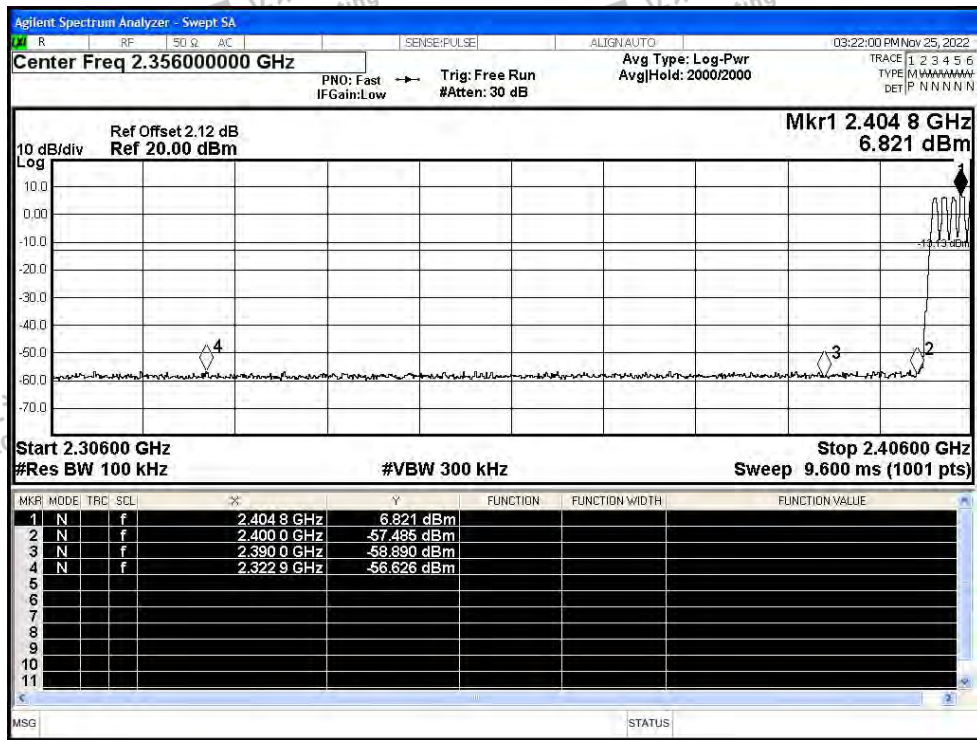


Test Graphs

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

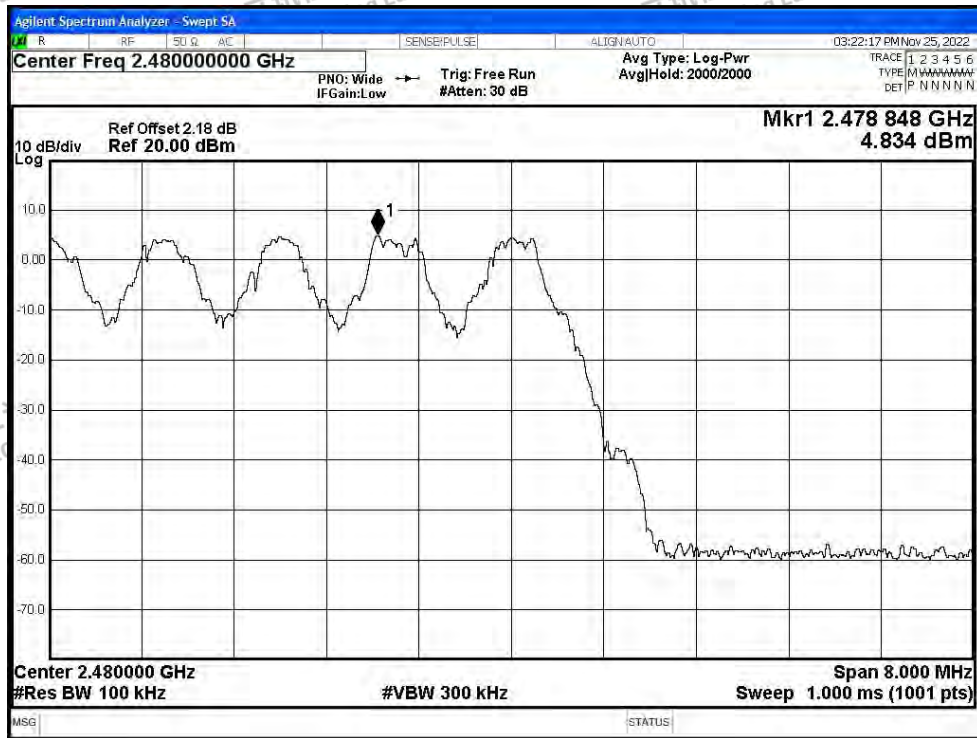


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

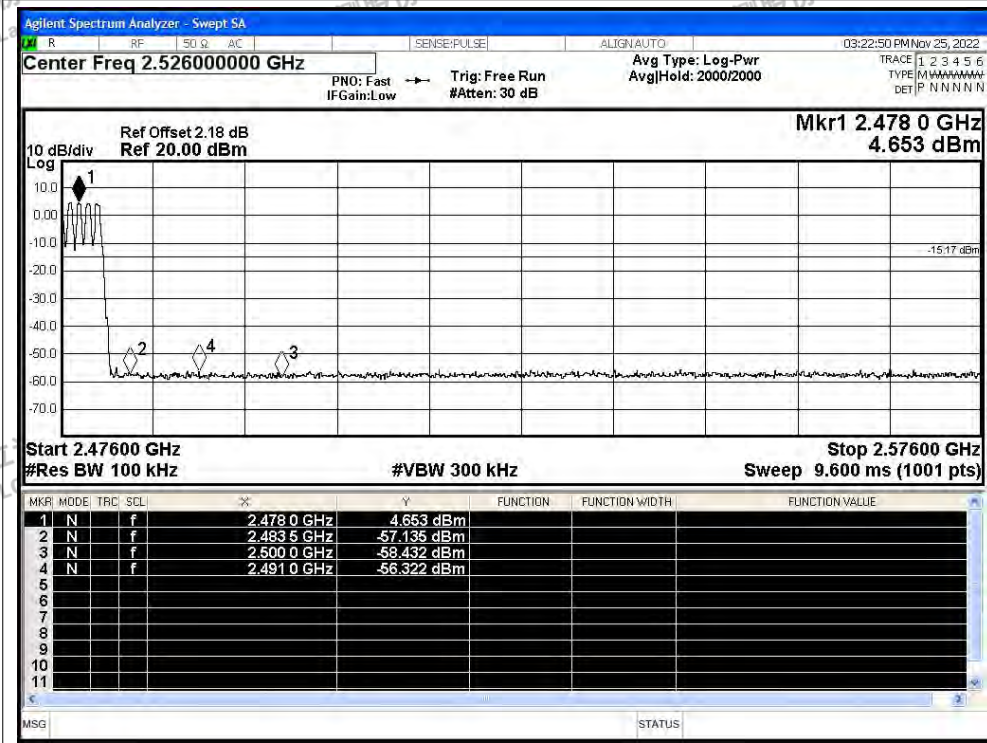




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

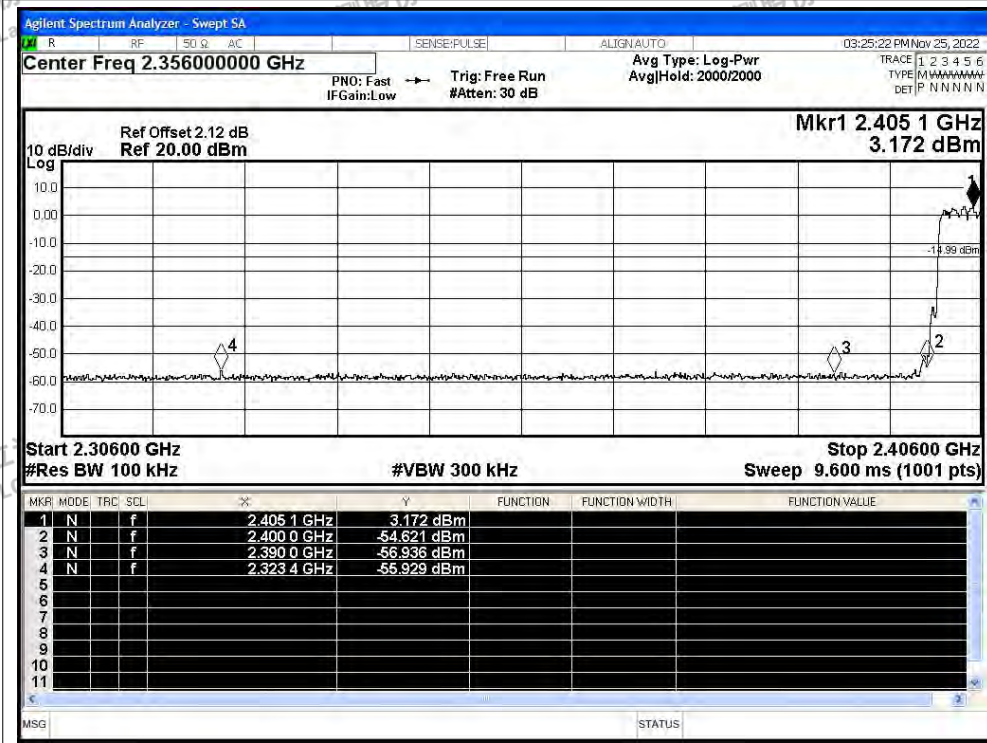




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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

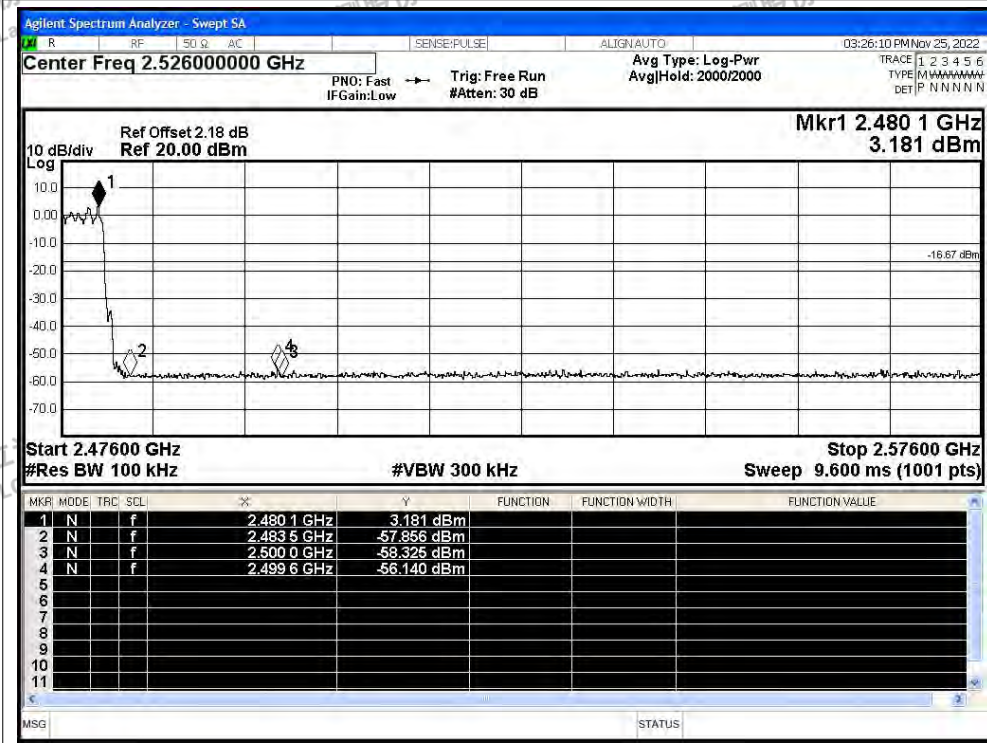




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

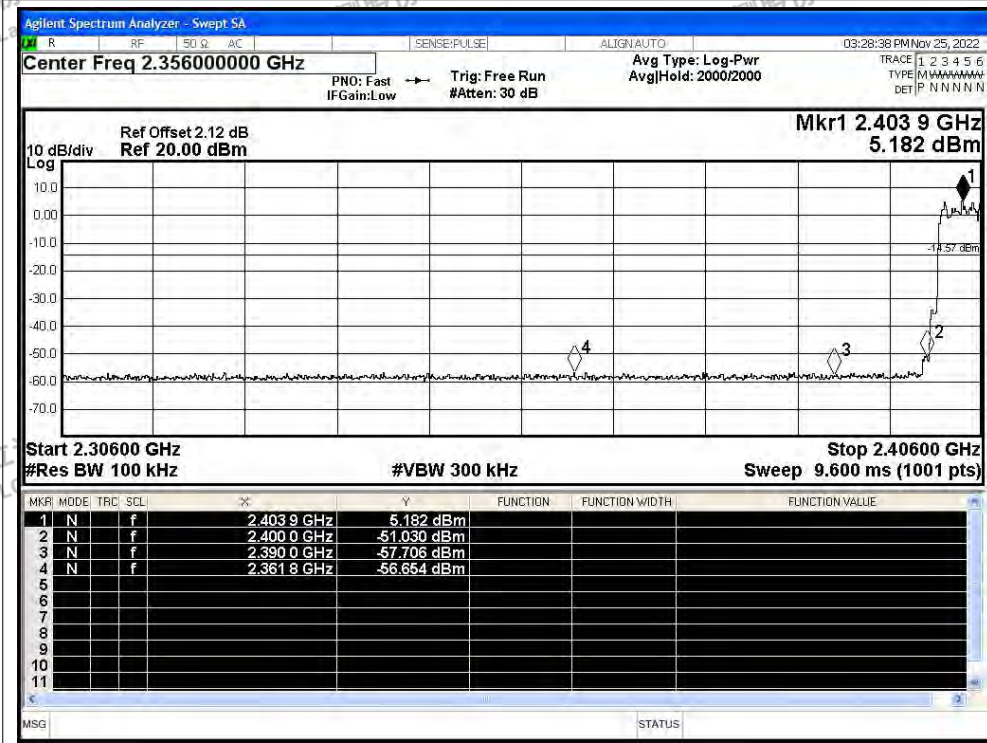




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

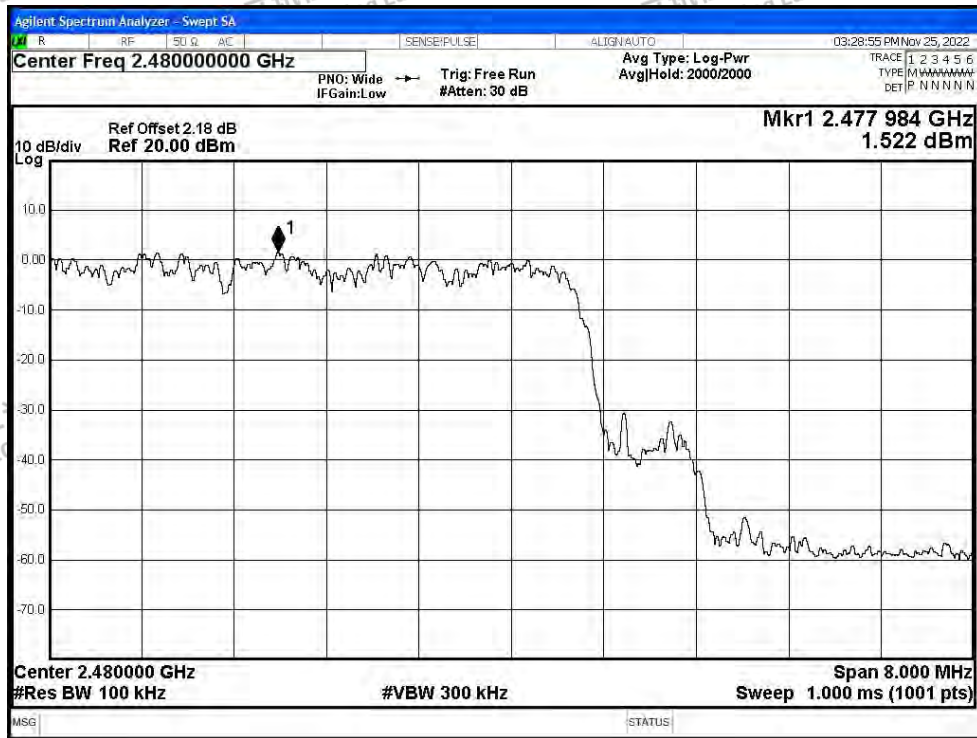


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

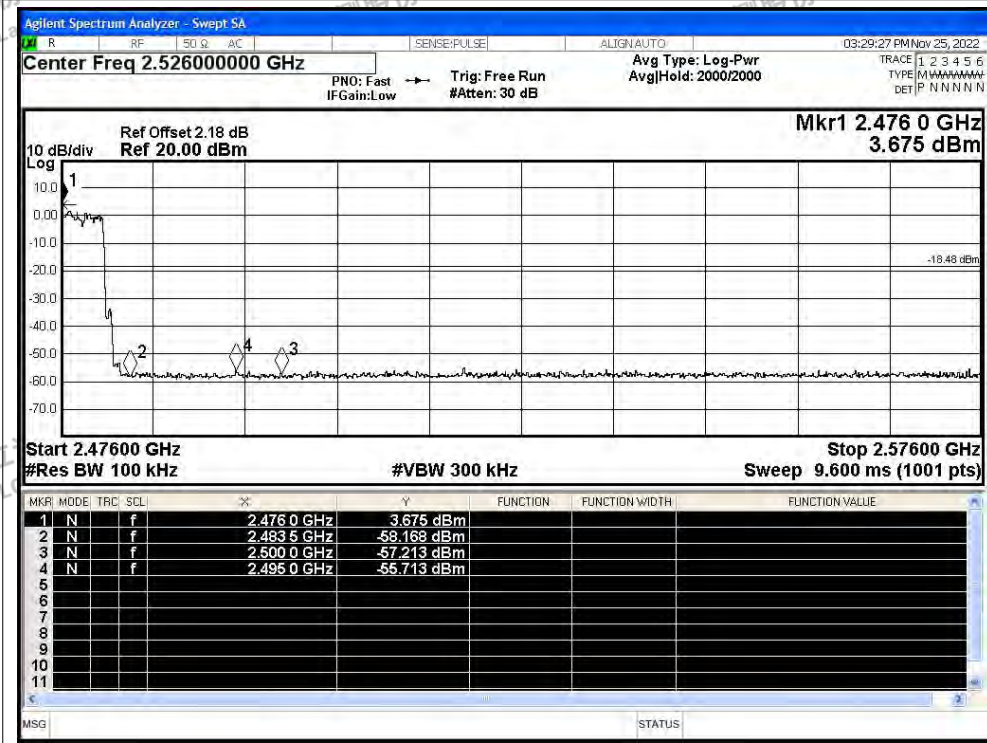




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-61.94	-20	Pass
NVNT	1-DH5	2441	Ant1	-62.33	-20	Pass
NVNT	1-DH5	2480	Ant1	-59.83	-20	Pass
NVNT	2-DH5	2402	Ant1	-60.04	-20	Pass
NVNT	2-DH5	2441	Ant1	-38.89	-20	Pass
NVNT	2-DH5	2480	Ant1	-58.85	-20	Pass
NVNT	3-DH5	2402	Ant1	-60.98	-20	Pass
NVNT	3-DH5	2441	Ant1	-60.92	-20	Pass
NVNT	3-DH5	2480	Ant1	-58.84	-20	Pass

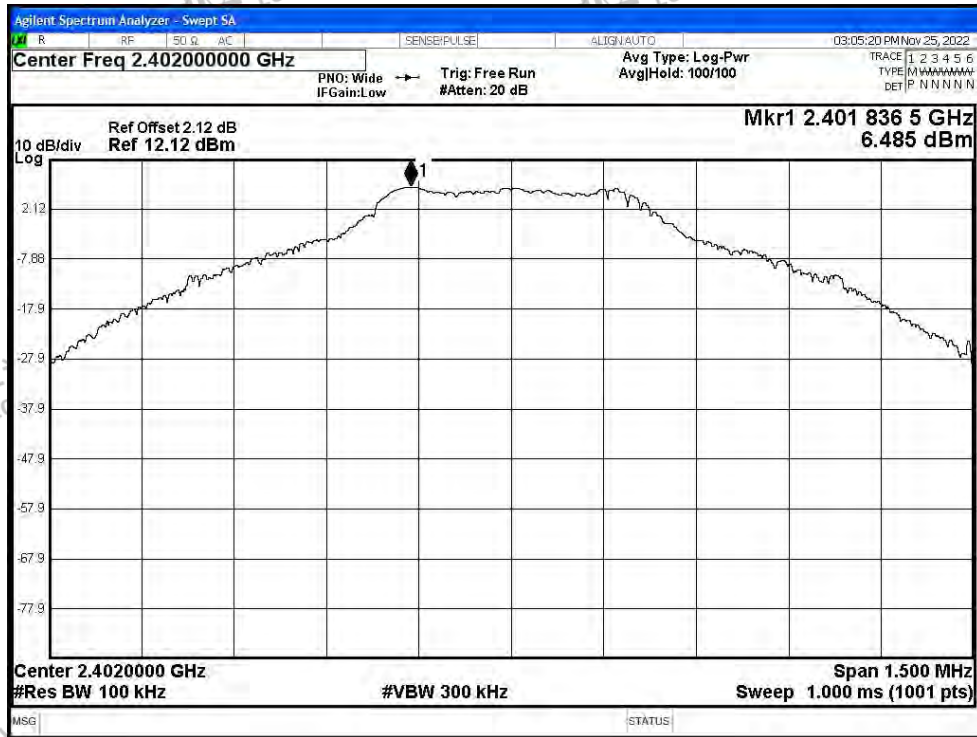


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

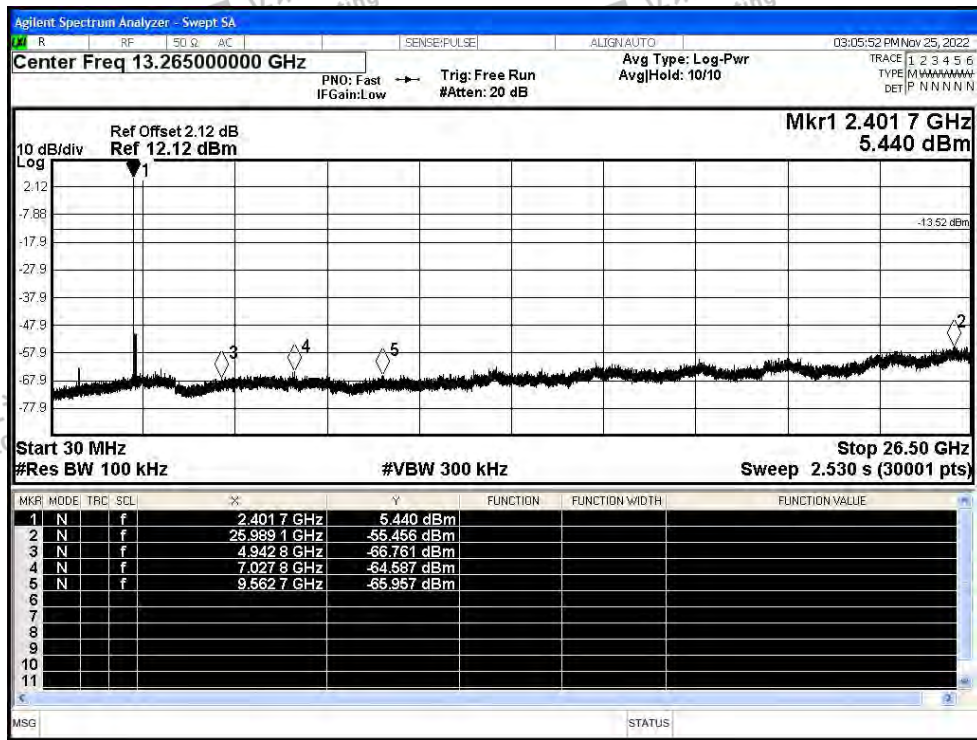


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

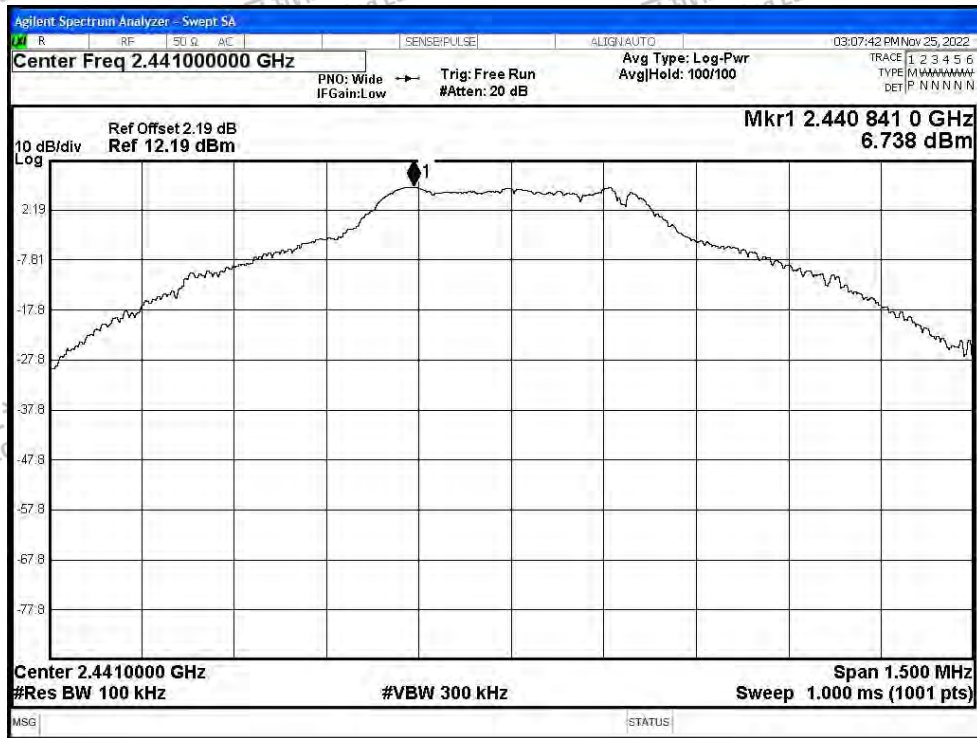


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

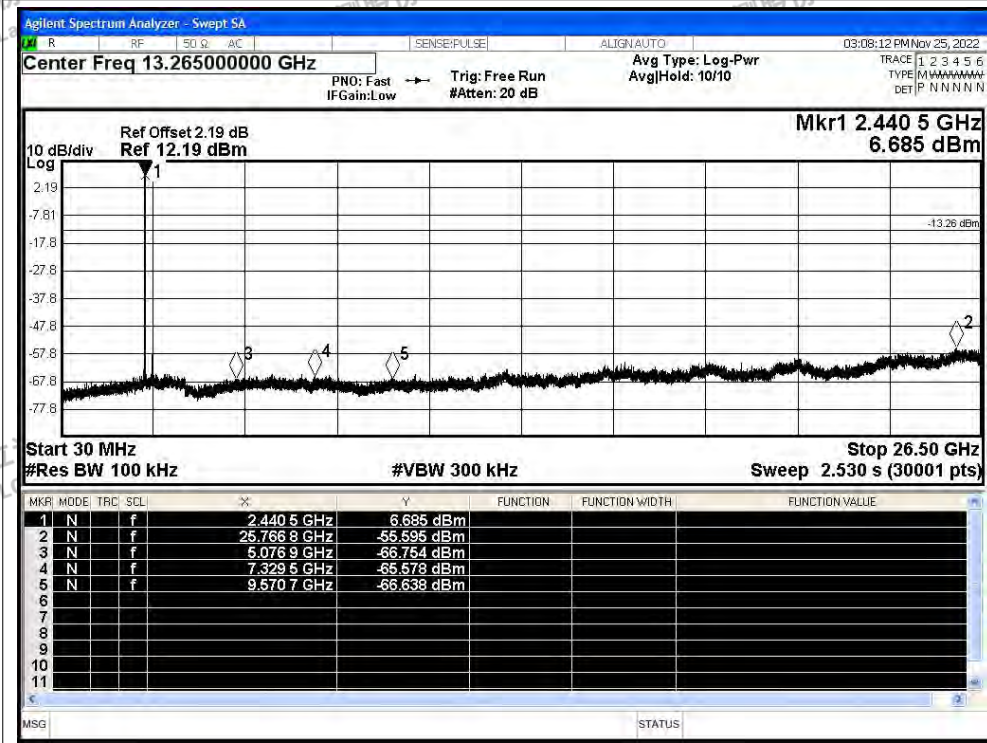




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

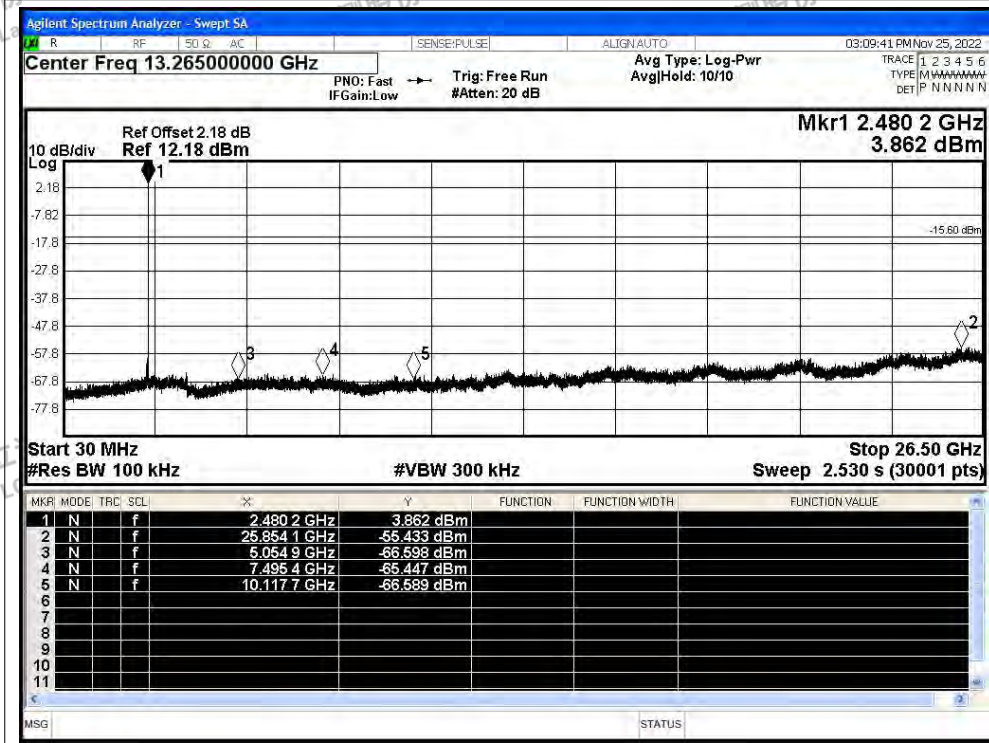




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

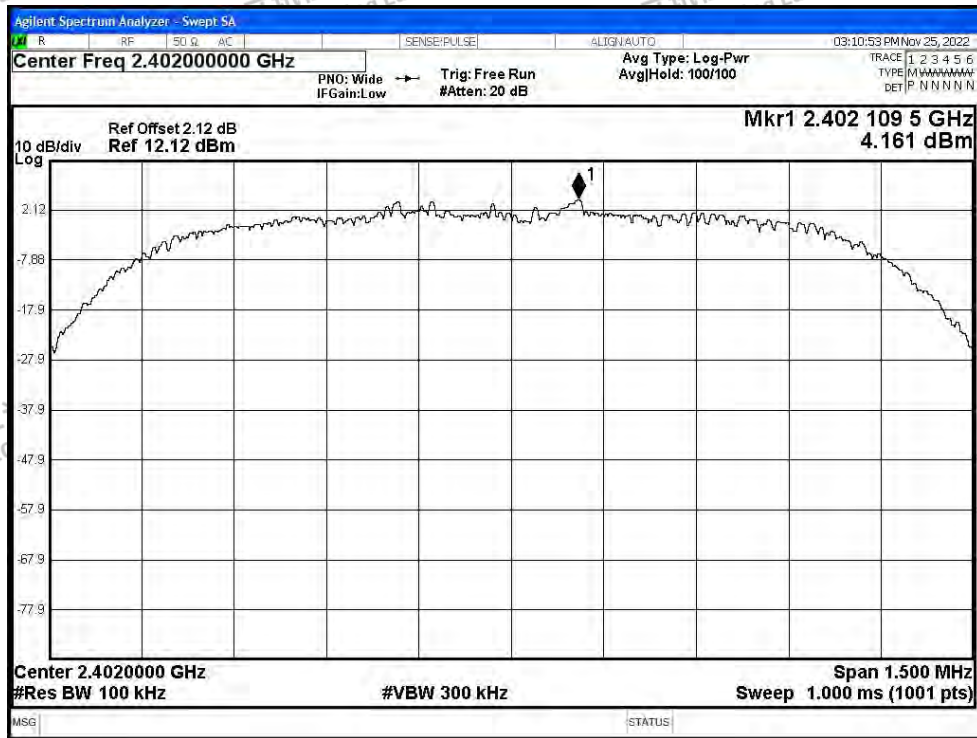


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

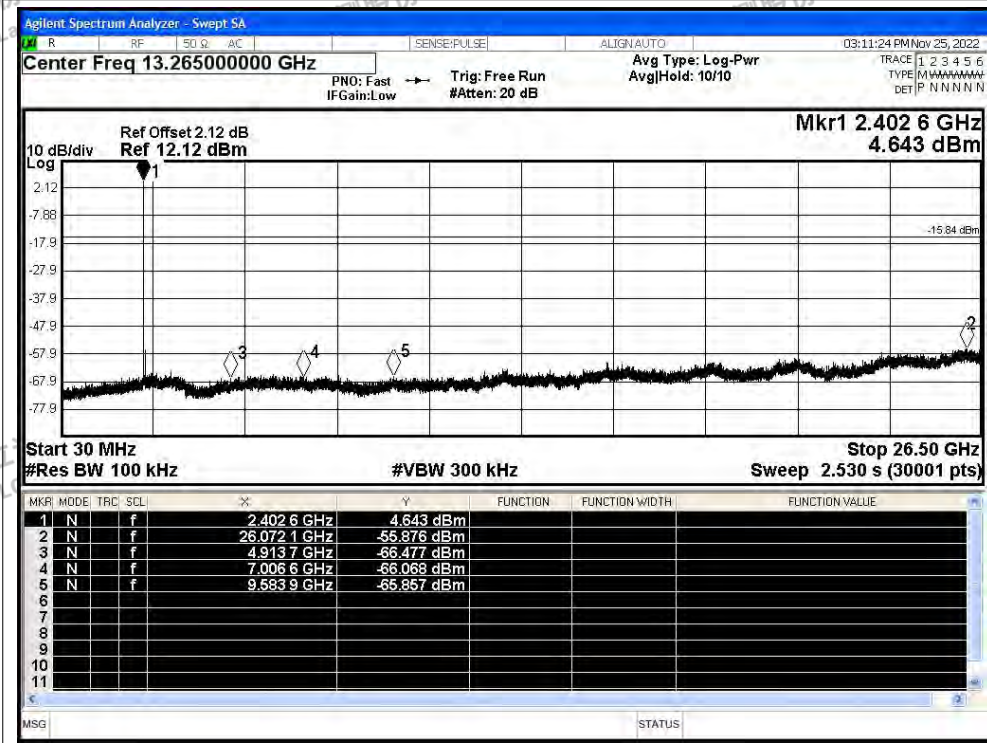




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

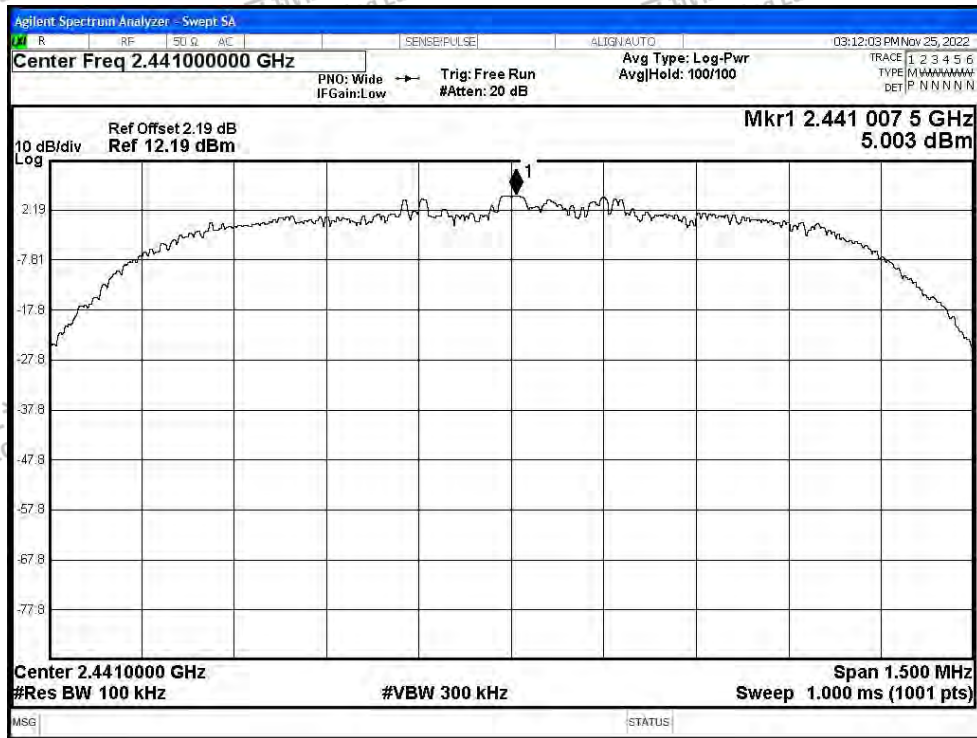


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

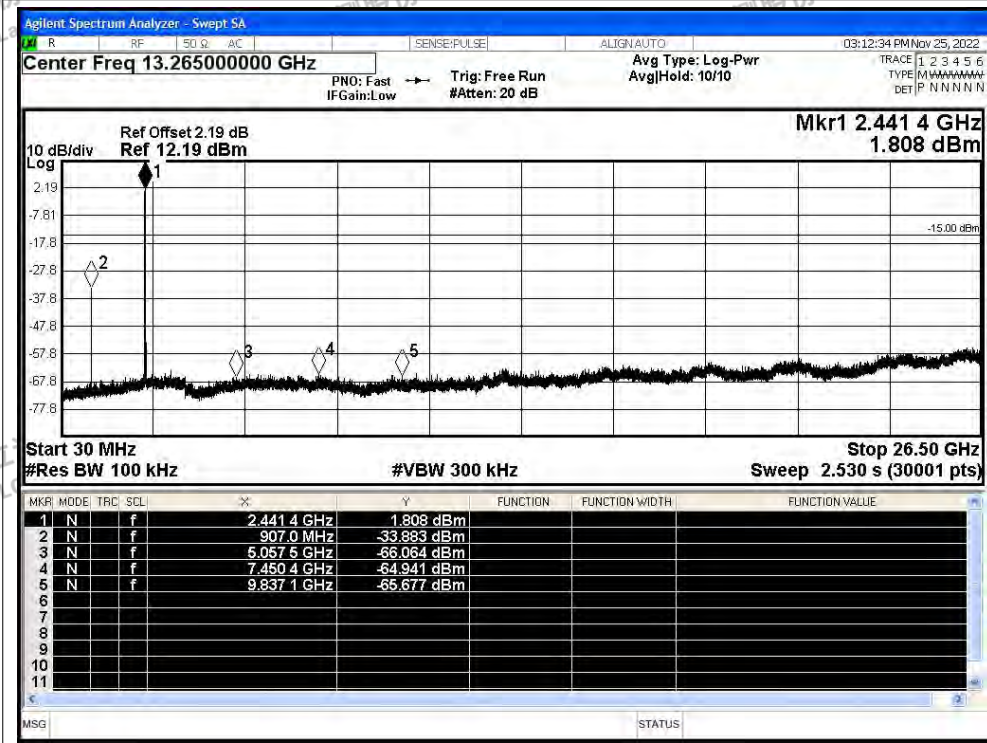




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

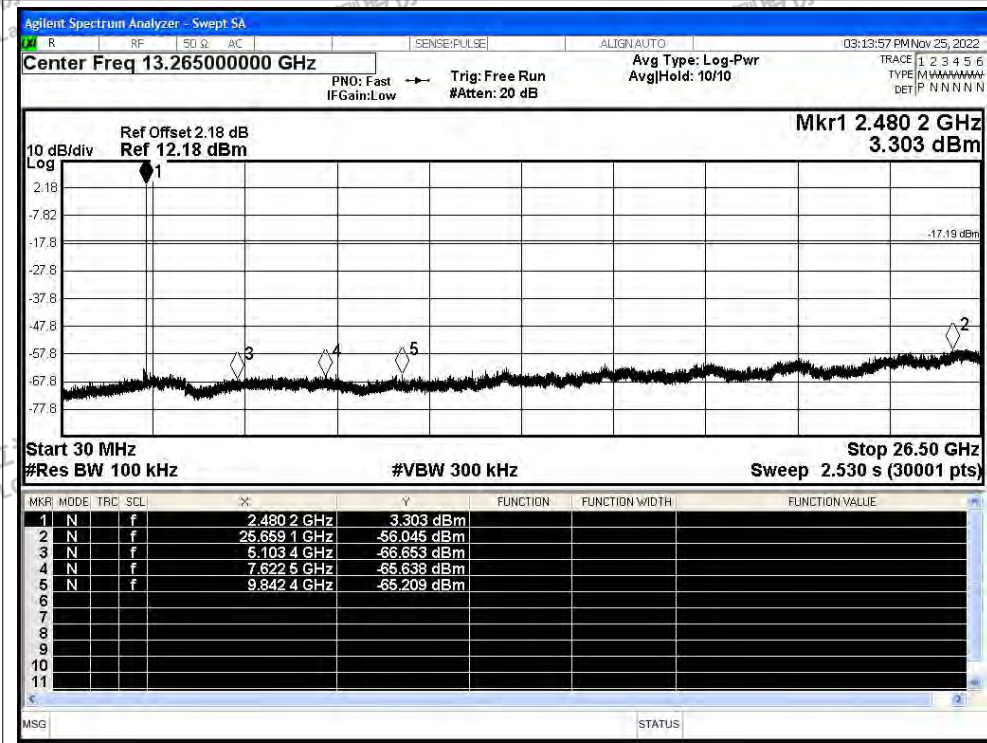




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

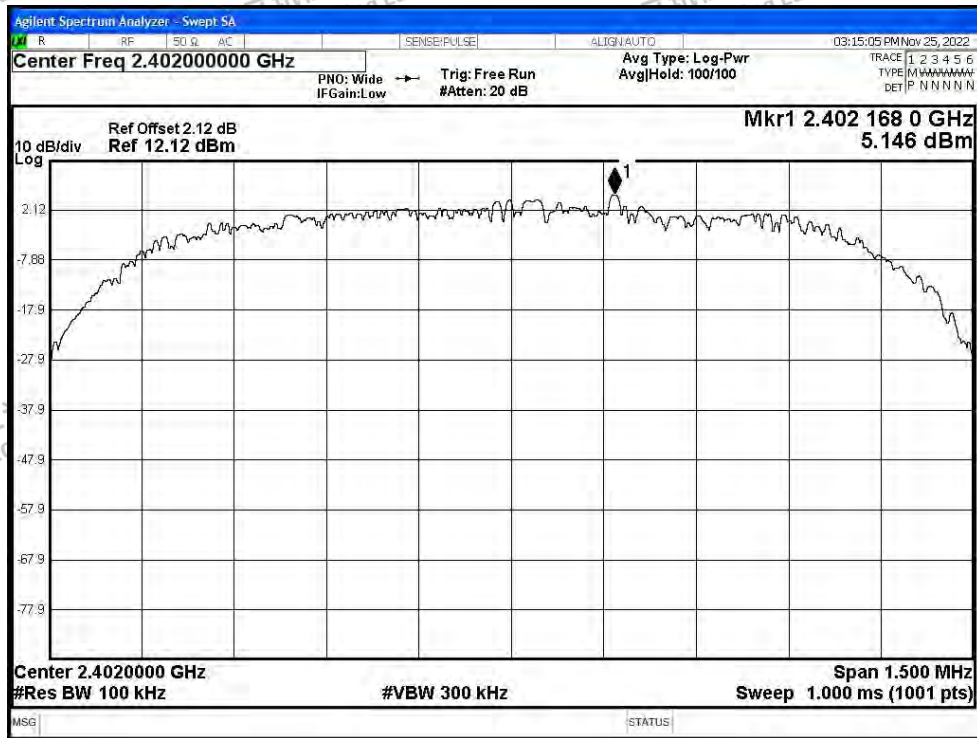


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

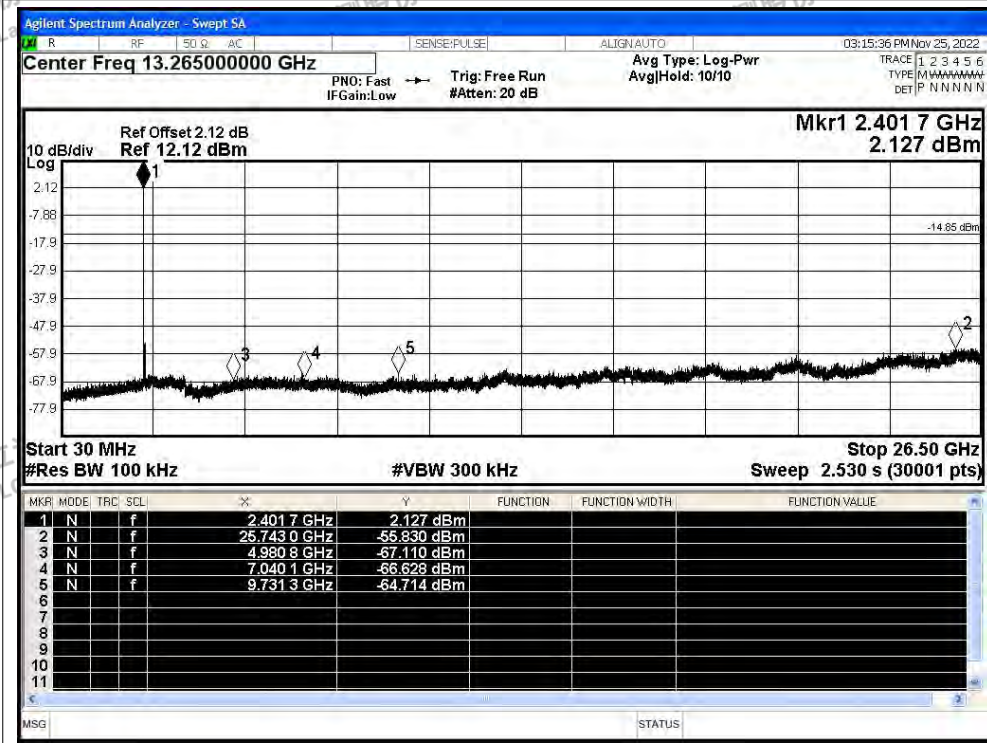




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

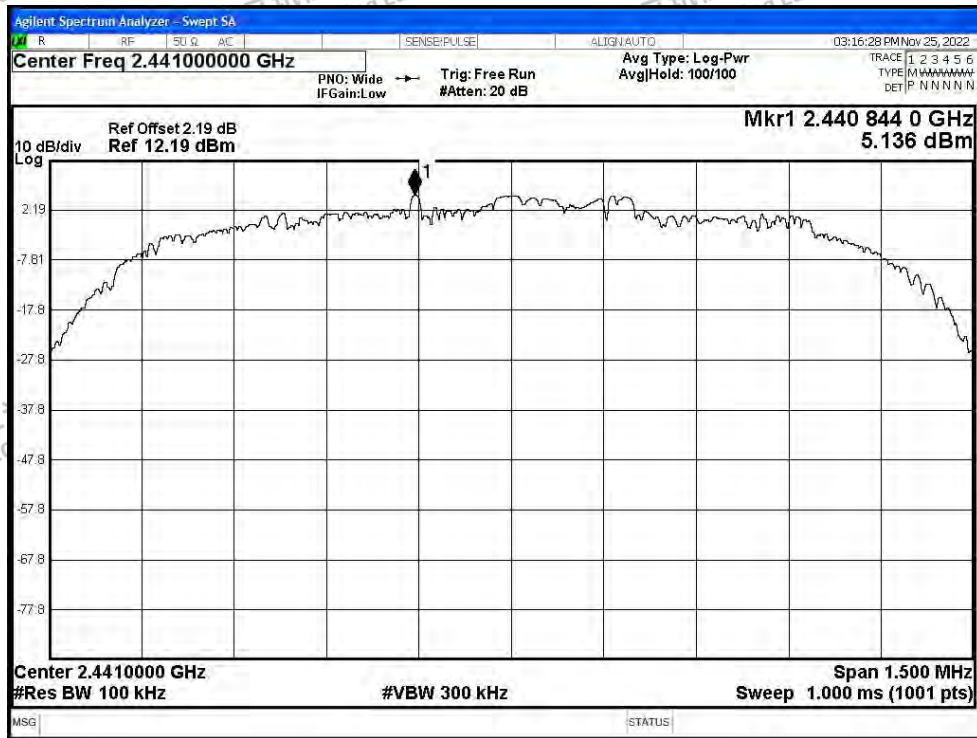


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

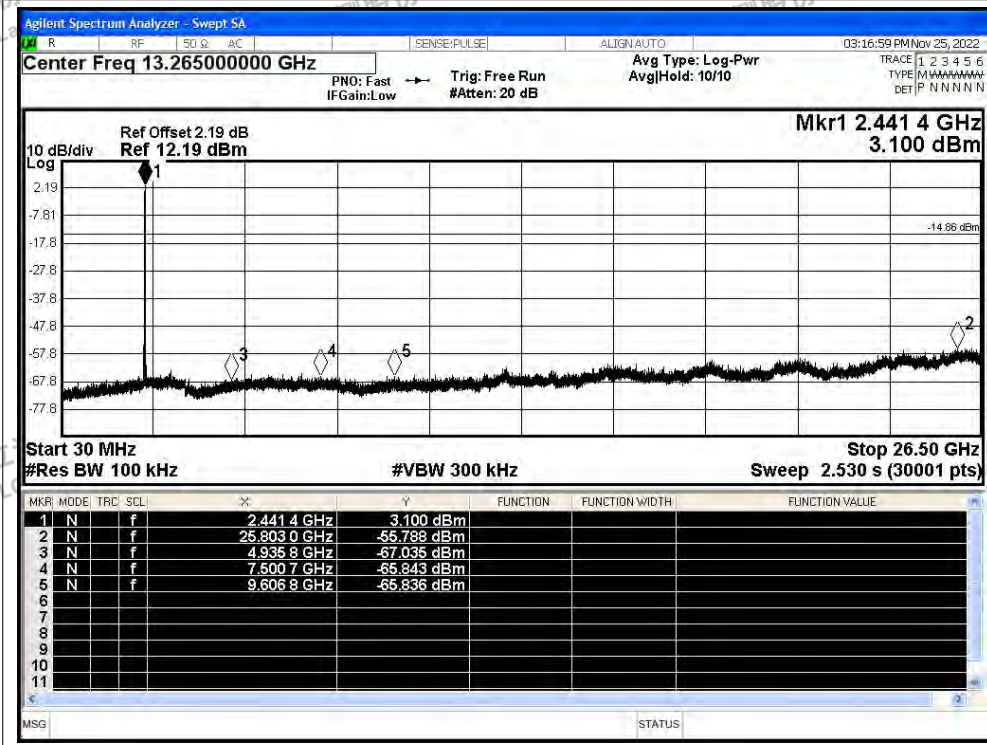




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

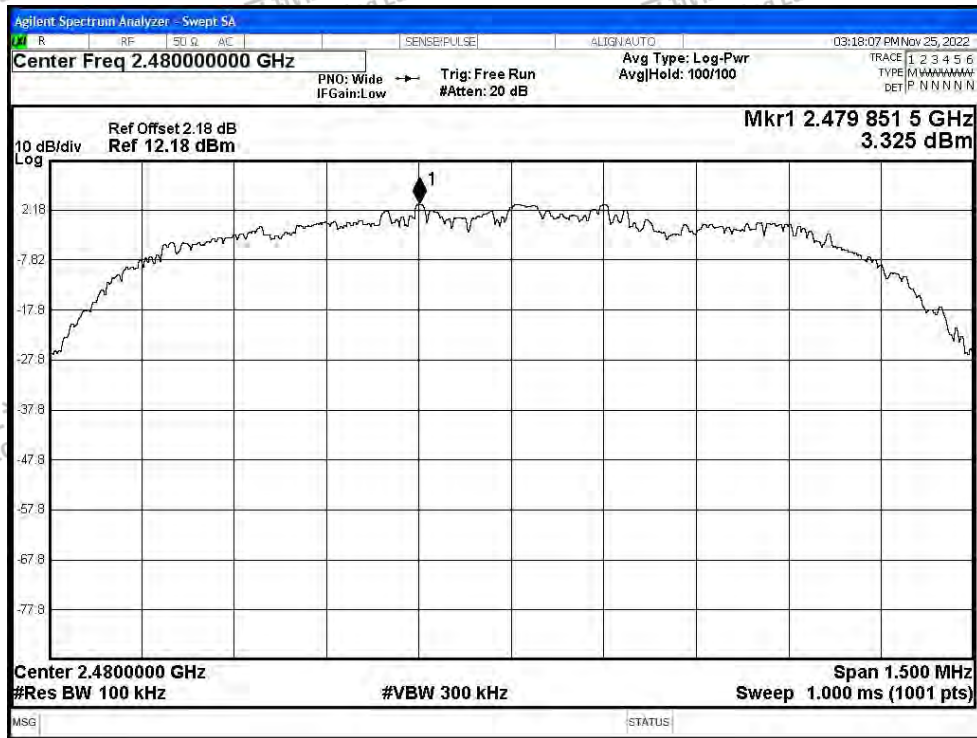


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

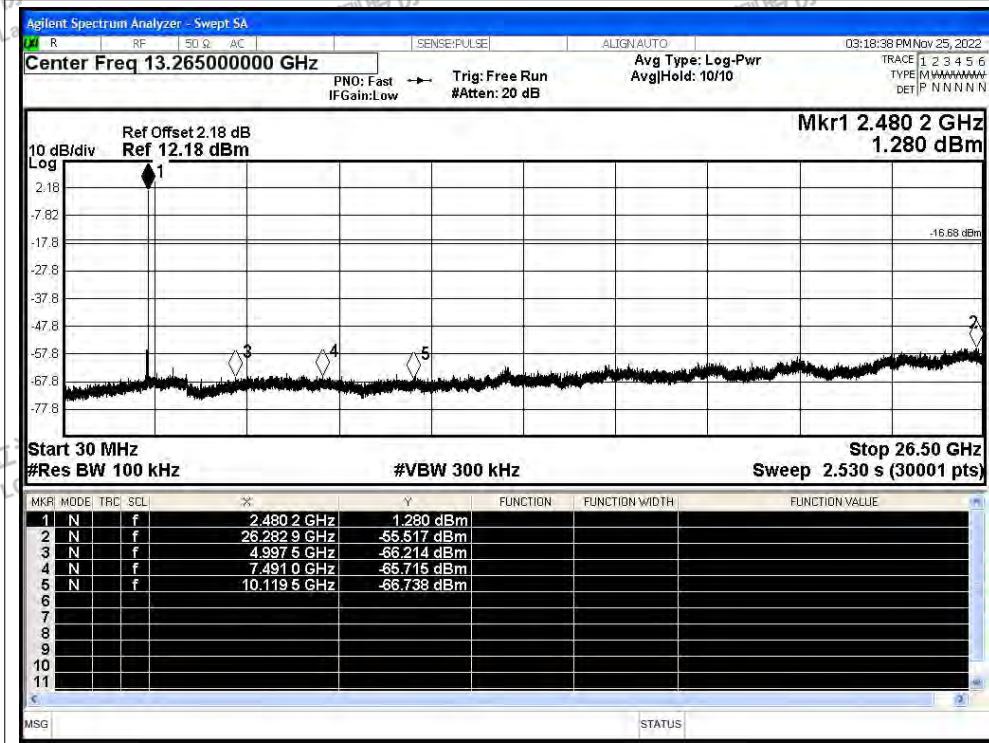




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-49.41	2	47.85	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.49	2	36.77	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2357.808	-47.78	2	49.48	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2380.272	-59.86	2	37.4	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.62	2	46.64	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.05	2	37.21	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.59	2	47.67	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.13	2	38.13	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.928	-43.13	2	54.13	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-59.13	2	38.13	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.03	2	48.23	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.76	2	37.5	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.97	2	46.29	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.5	2	36.76	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2380.944	-47.04	2	50.22	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.776	-60.02	2	37.24	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.07	2	47.19	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.11	2	37.15	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.61	2	48.65	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.7	2	38.56	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.112	-41.98	2	55.28	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-58.7	2	38.56	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.45	2	47.81	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.81	2	37.45	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.65	2	46.61	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.6	2	36.66	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2377.392	-47.46	2	49.8	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2385.36	-59.96	2	37.3	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.63	2	46.63	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.12	2	37.14	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.75	2	47.51	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.63	2	38.63	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.632	-40.1	2	57.16	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-58.63	2	38.63	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.94	2	46.32	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.83	2	37.43	Average	54	Pass

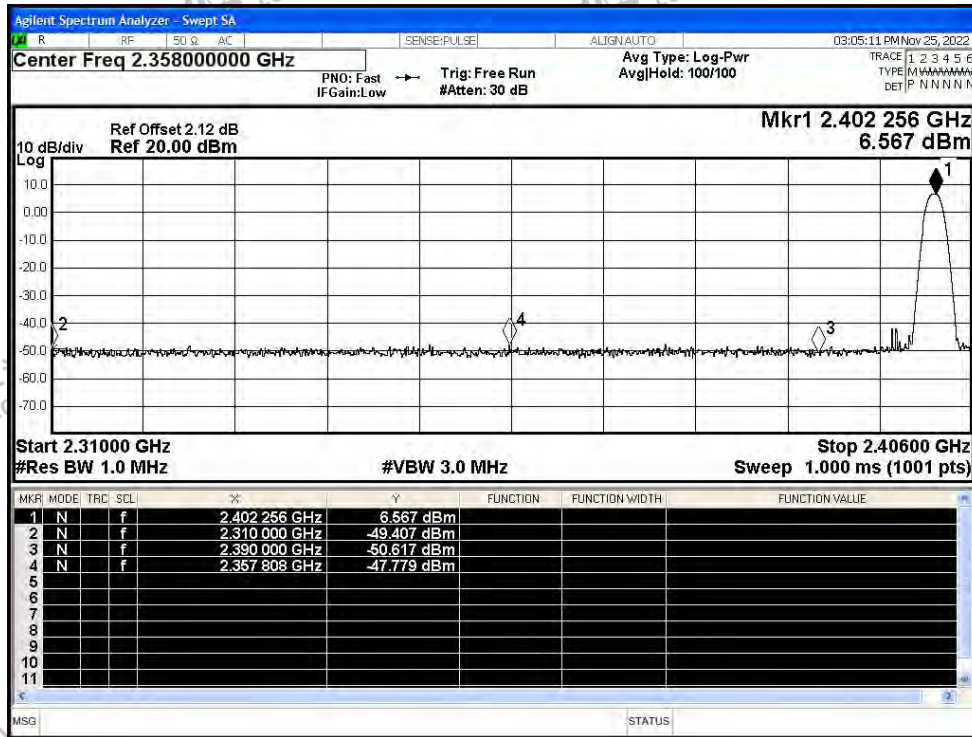


Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

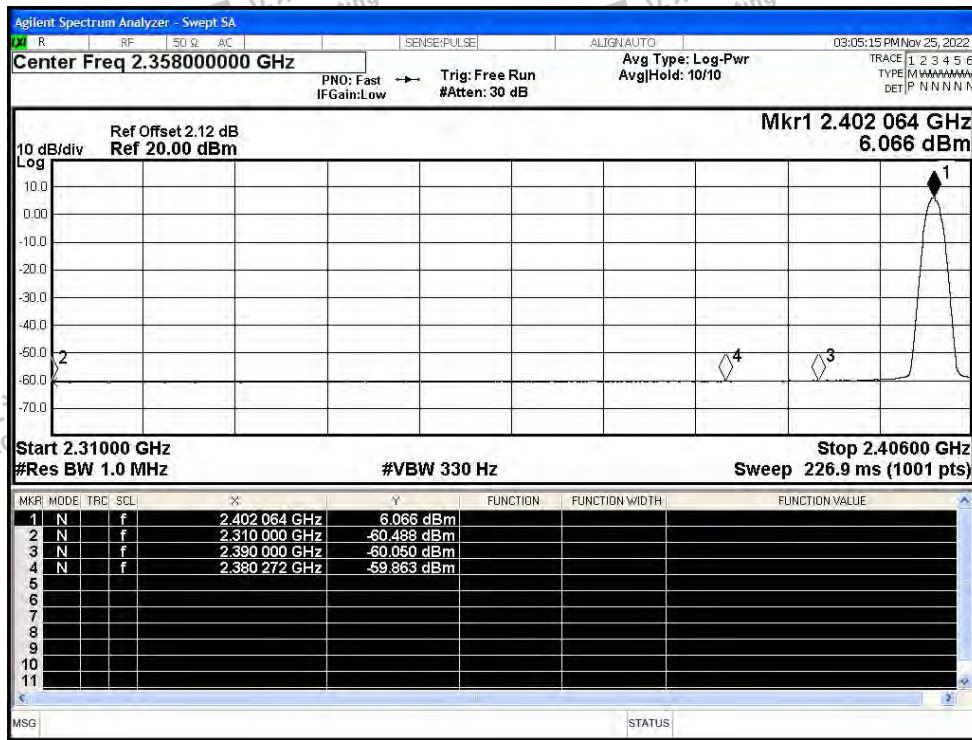


Test Graphs

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

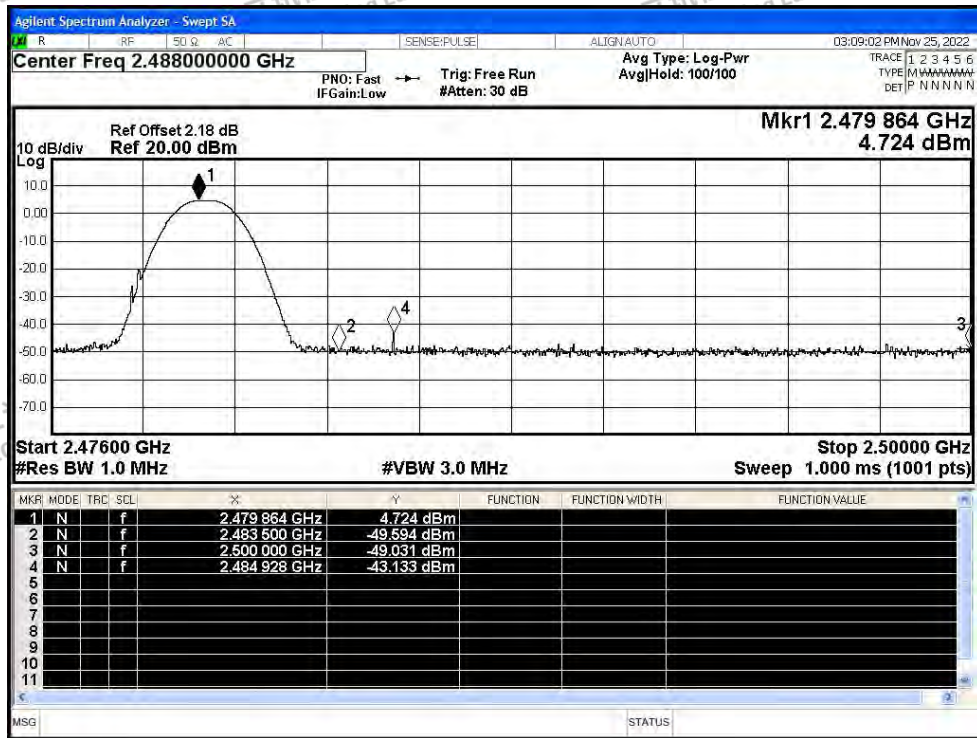


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

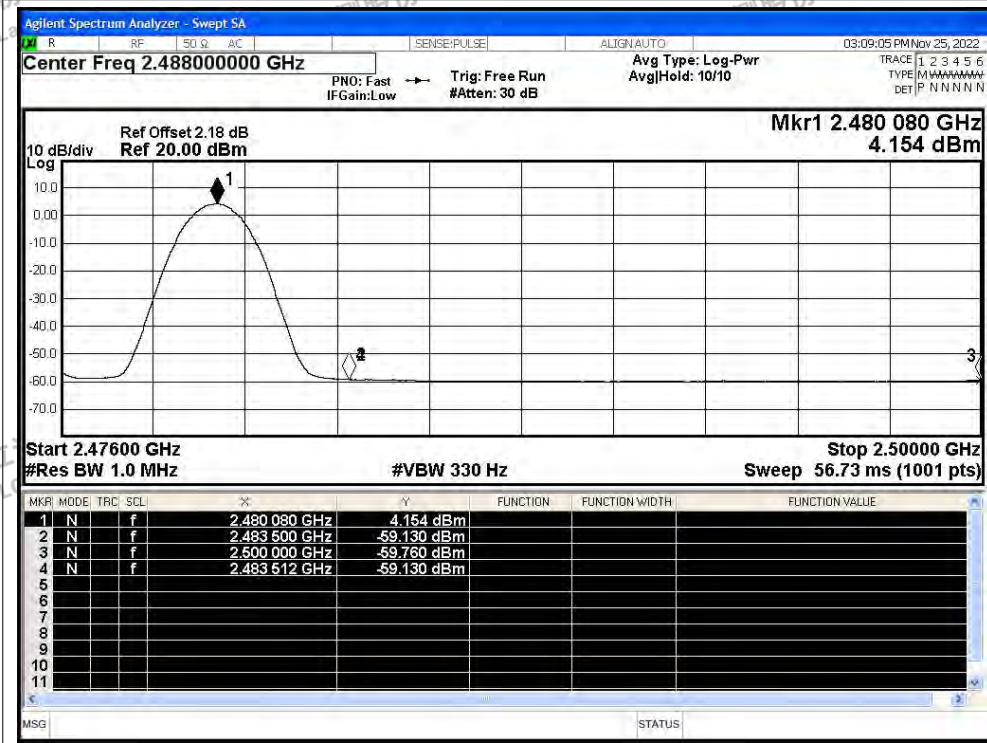




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

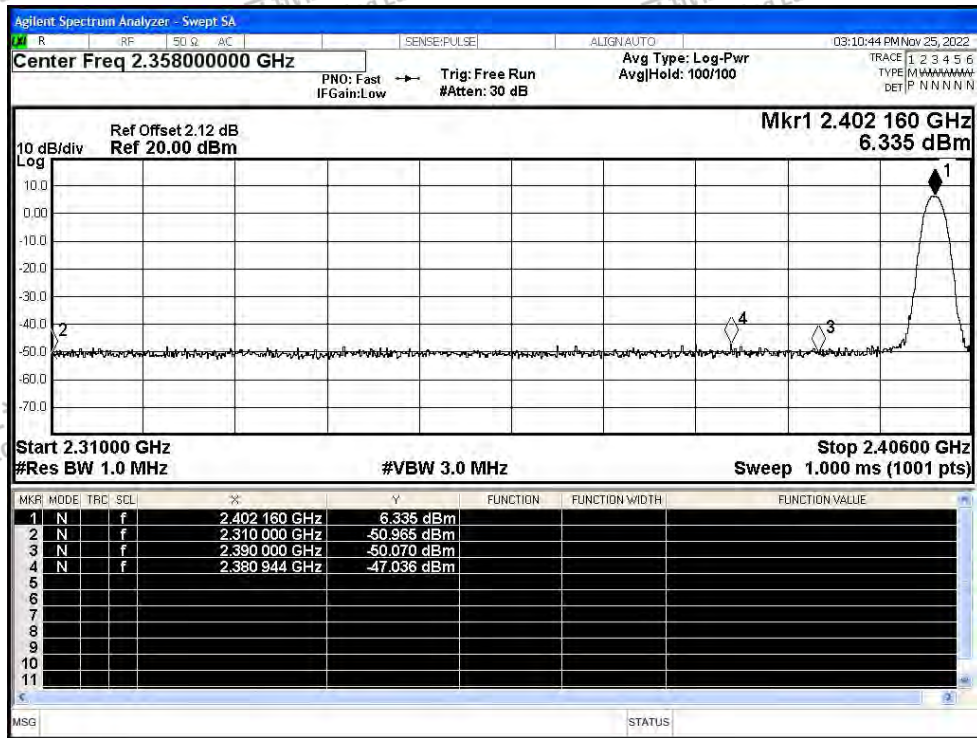


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

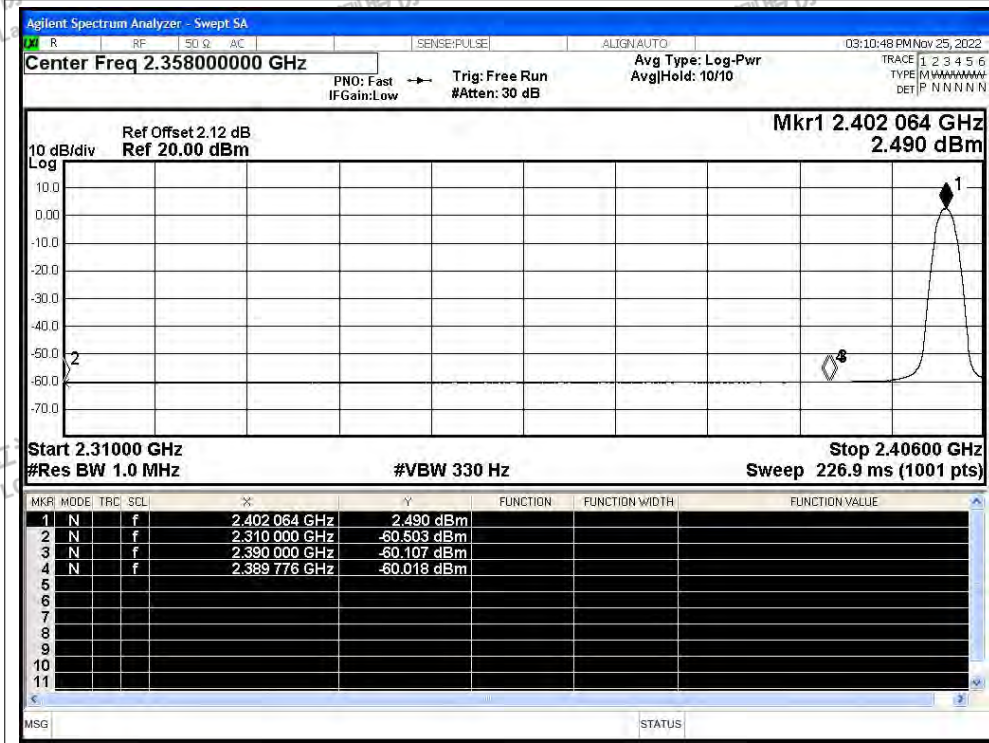




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

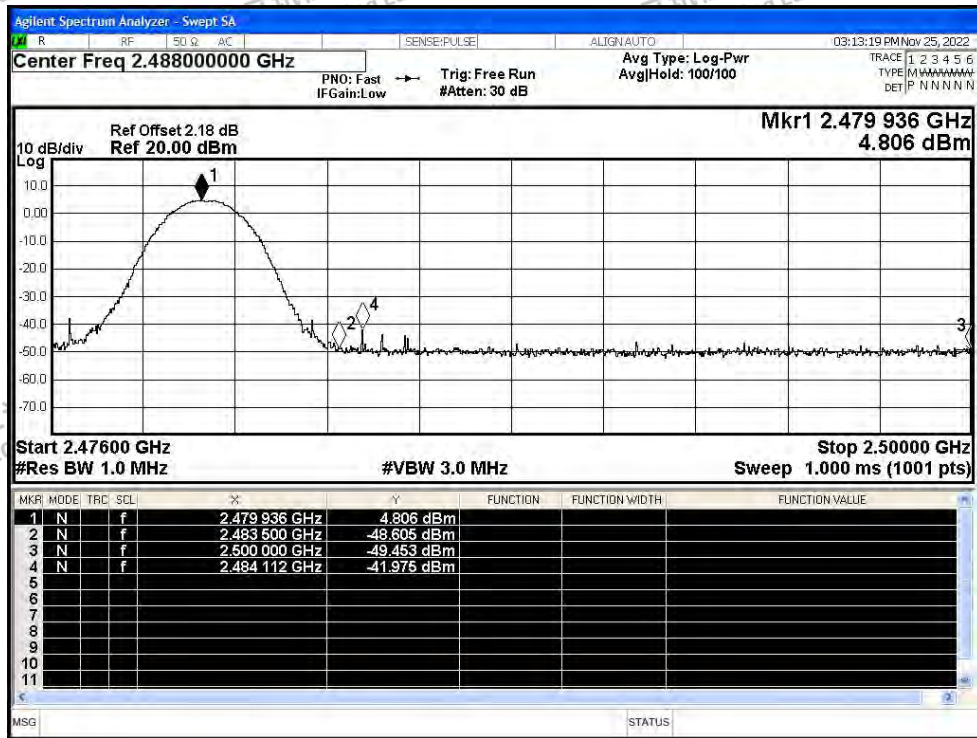


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

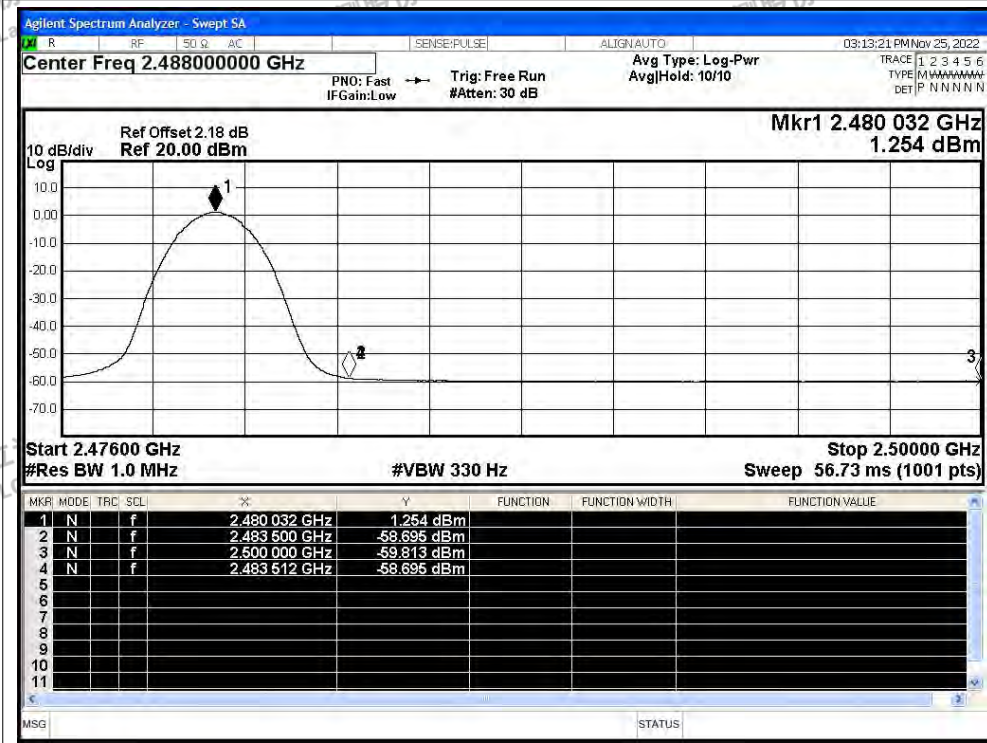




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

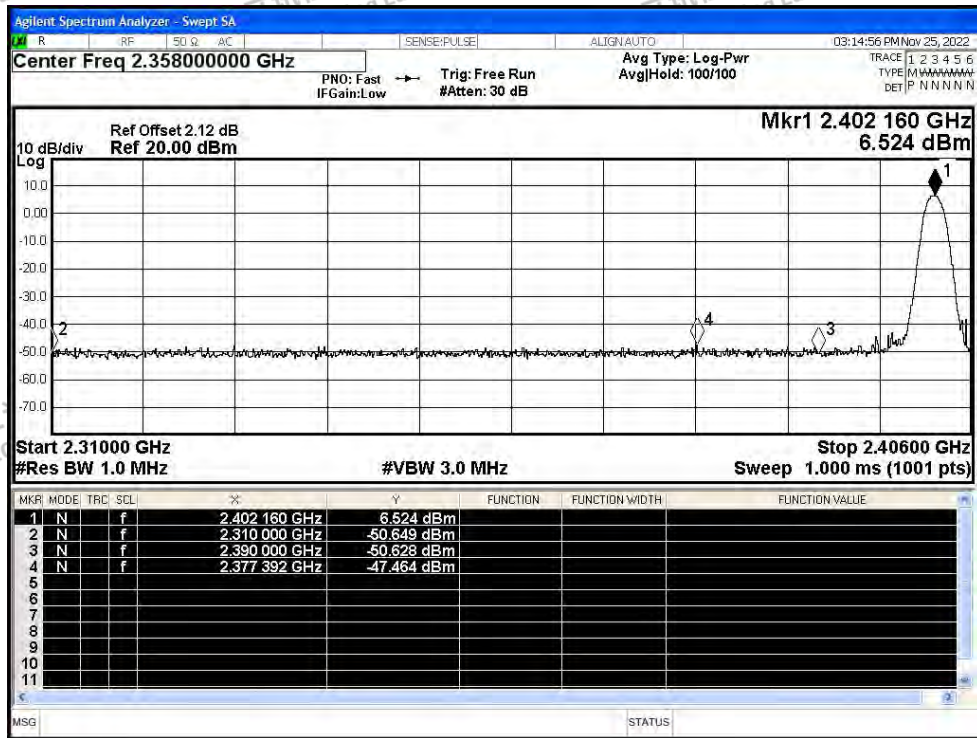


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

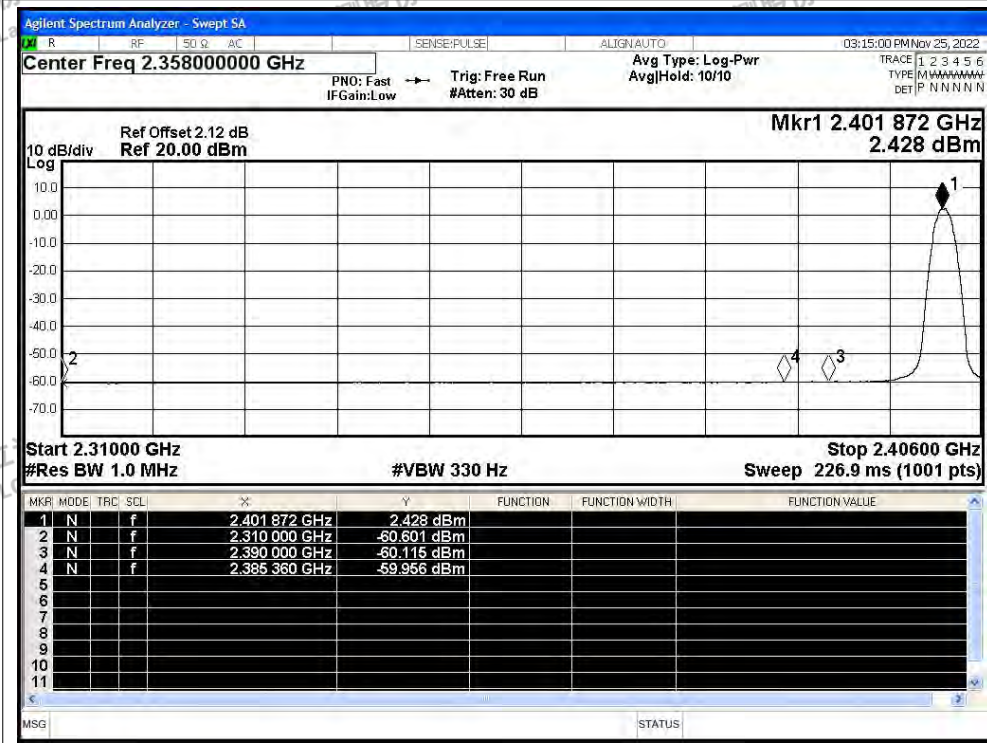




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

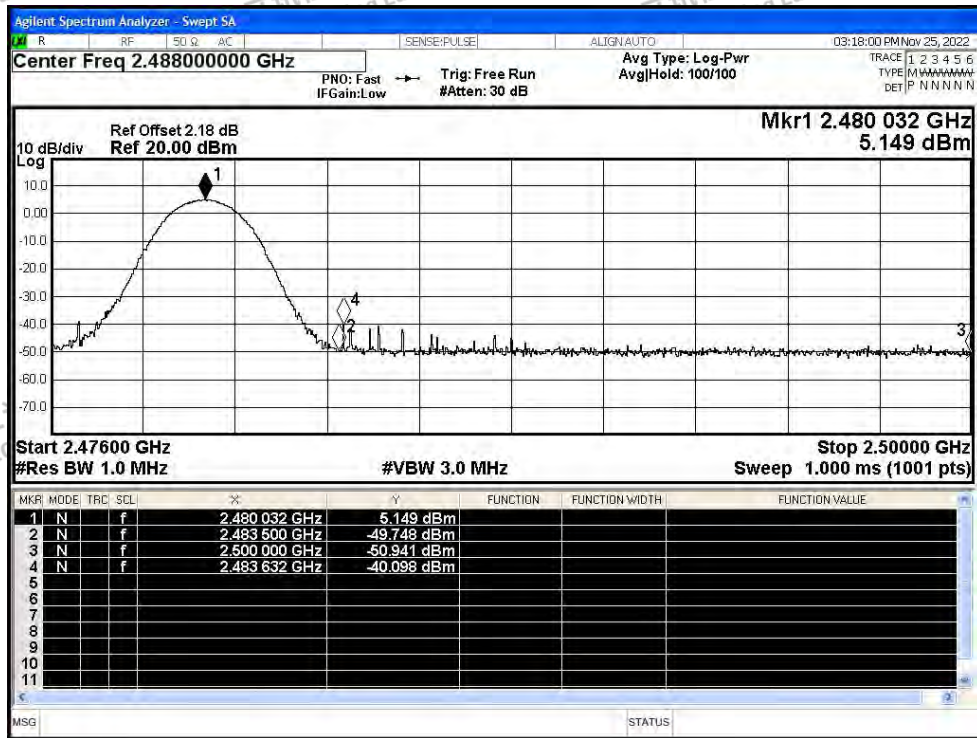


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

