



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Atomi Neon Boom Speaker

Test Model: AT1987

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	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	1.032	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.034	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.968	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.284	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.322	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.289	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.297	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.301	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.284	N/A	Pass



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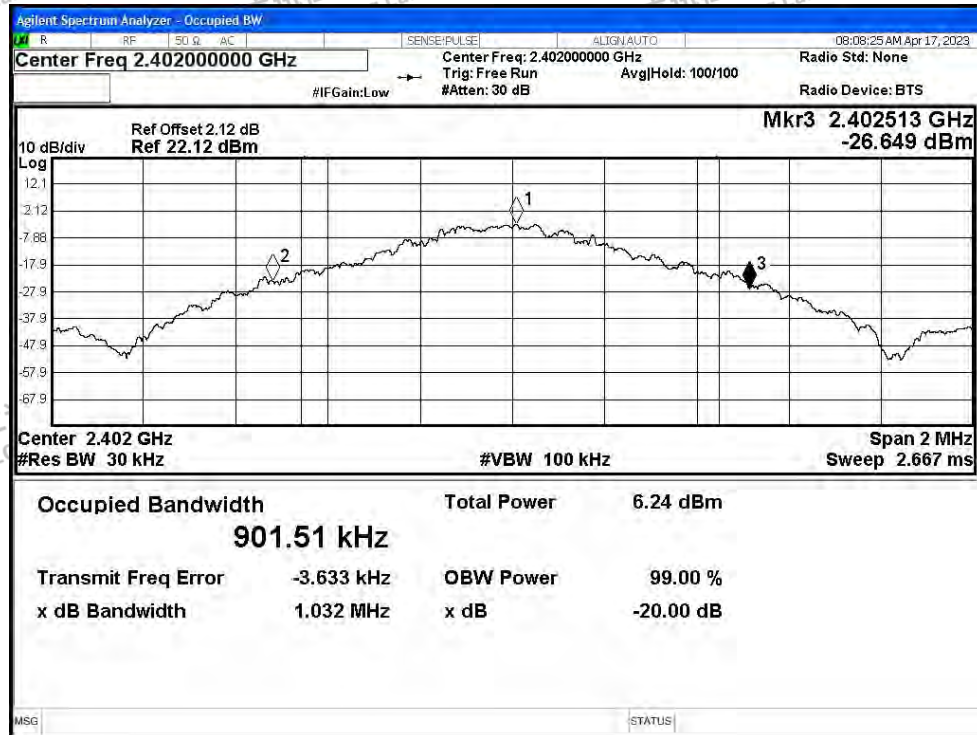
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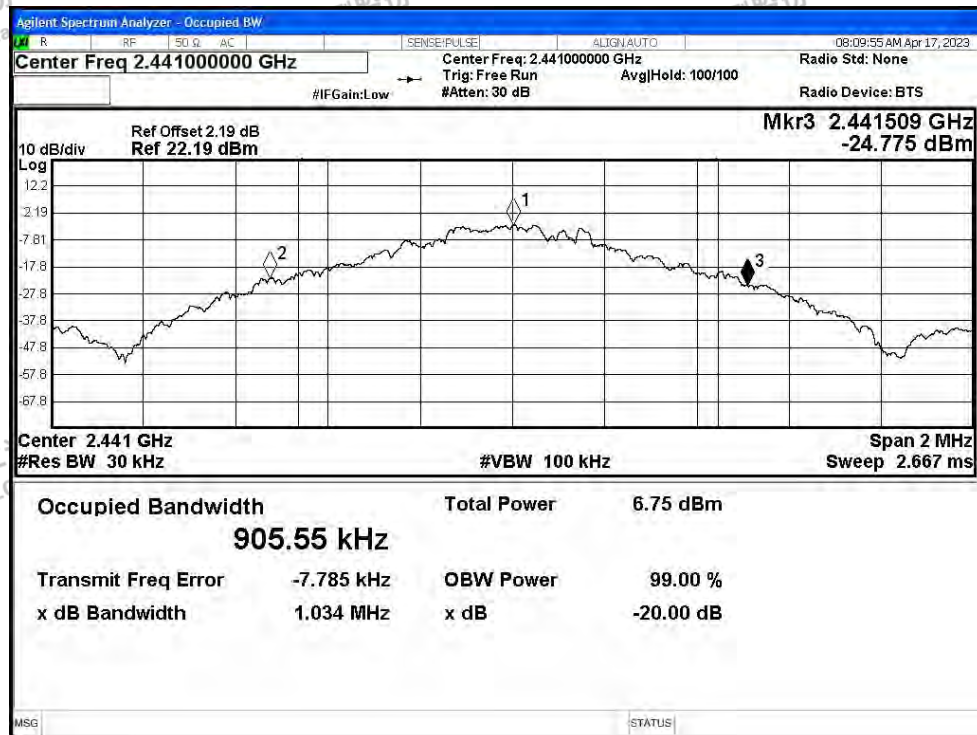


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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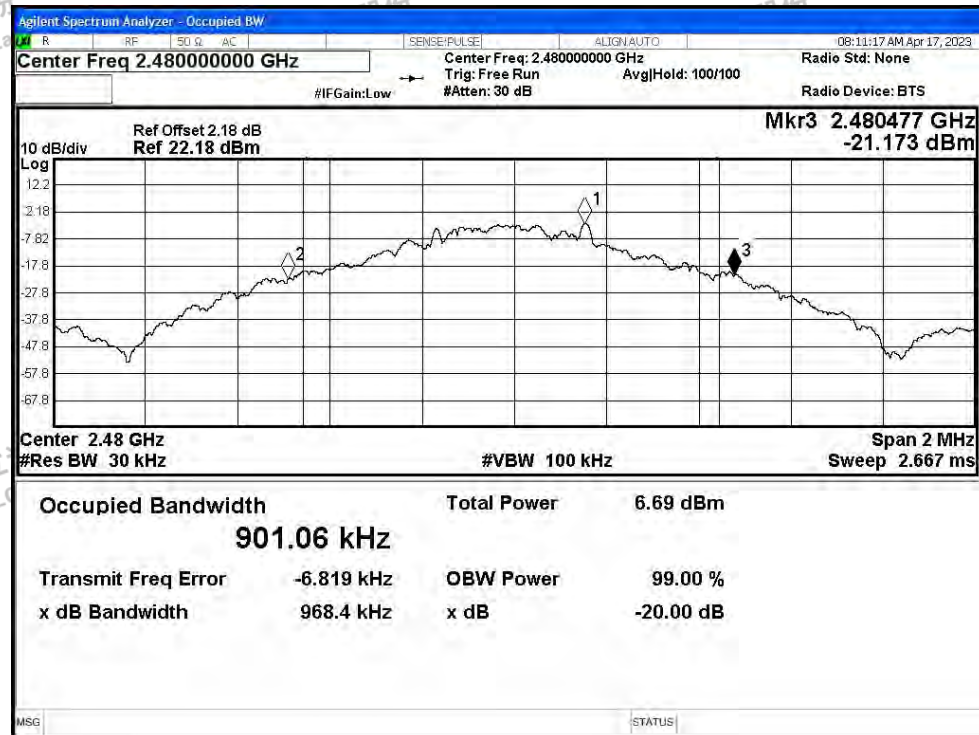
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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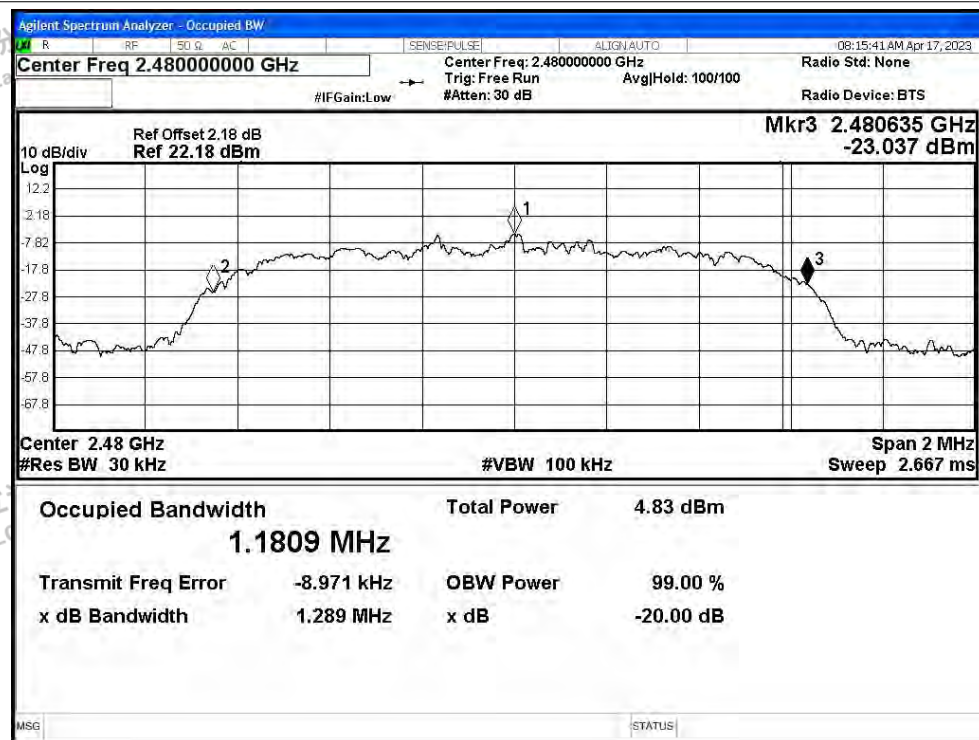
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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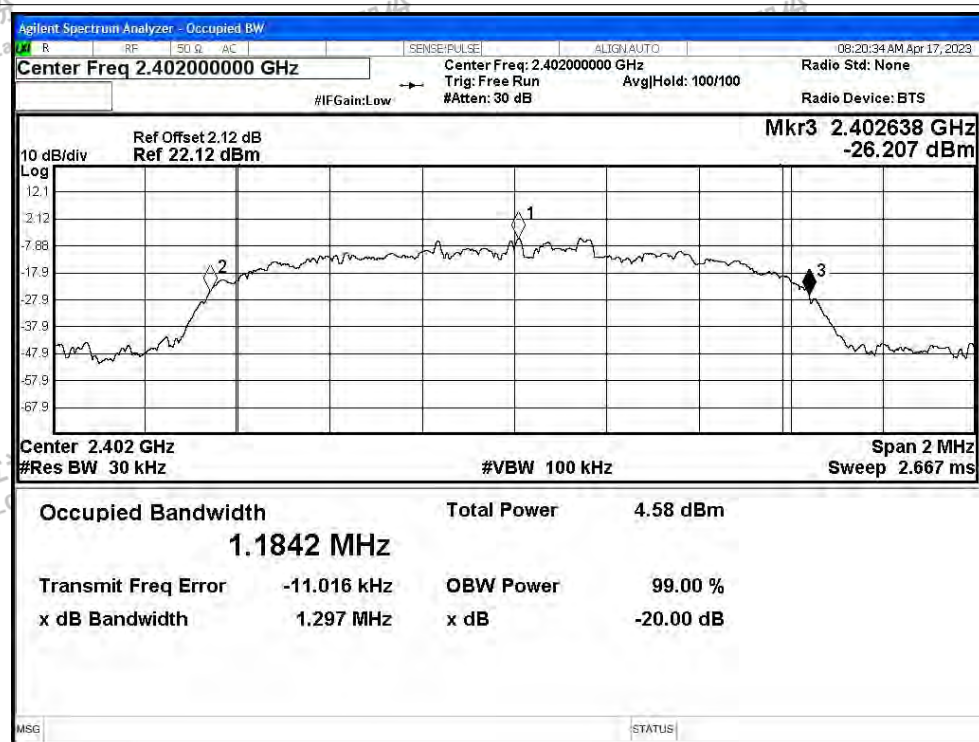
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

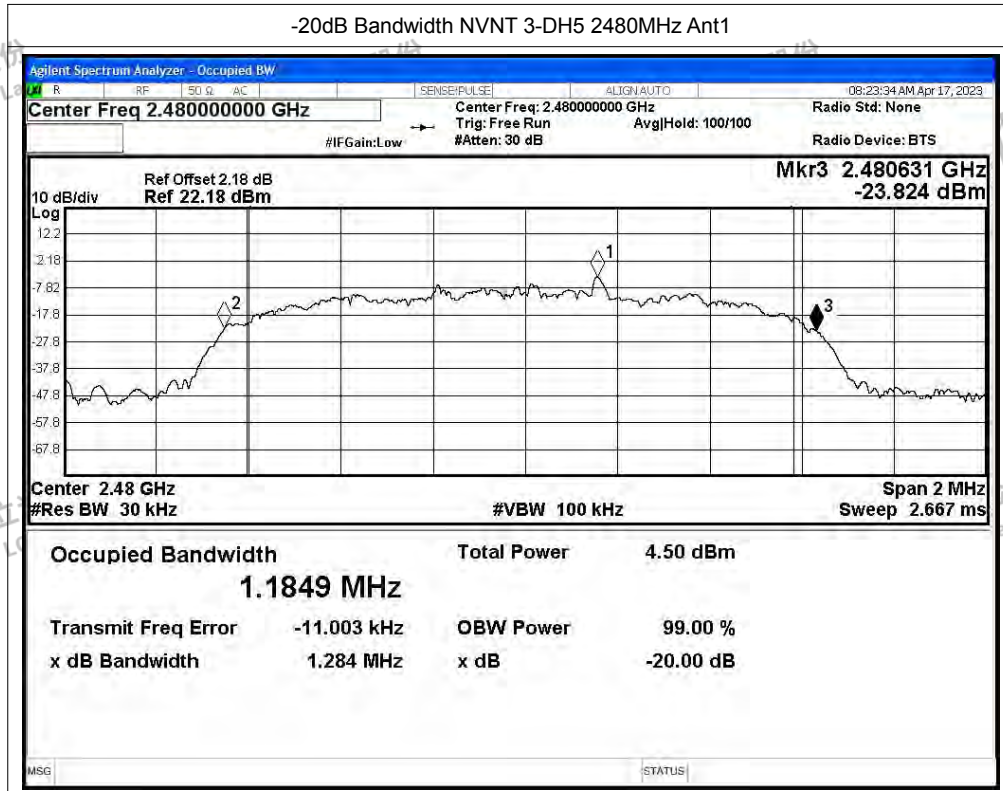


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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.17	21	Pass
NVNT	1-DH5	2441	Ant1	0.65	21	Pass
NVNT	1-DH5	2480	Ant1	0.31	21	Pass
NVNT	2-DH5	2402	Ant1	-0.03	21	Pass
NVNT	2-DH5	2441	Ant1	-0.01	21	Pass
NVNT	2-DH5	2480	Ant1	0.38	21	Pass
NVNT	3-DH5	2402	Ant1	-0.05	21	Pass
NVNT	3-DH5	2441	Ant1	0.44	21	Pass
NVNT	3-DH5	2480	Ant1	0.03	21	Pass



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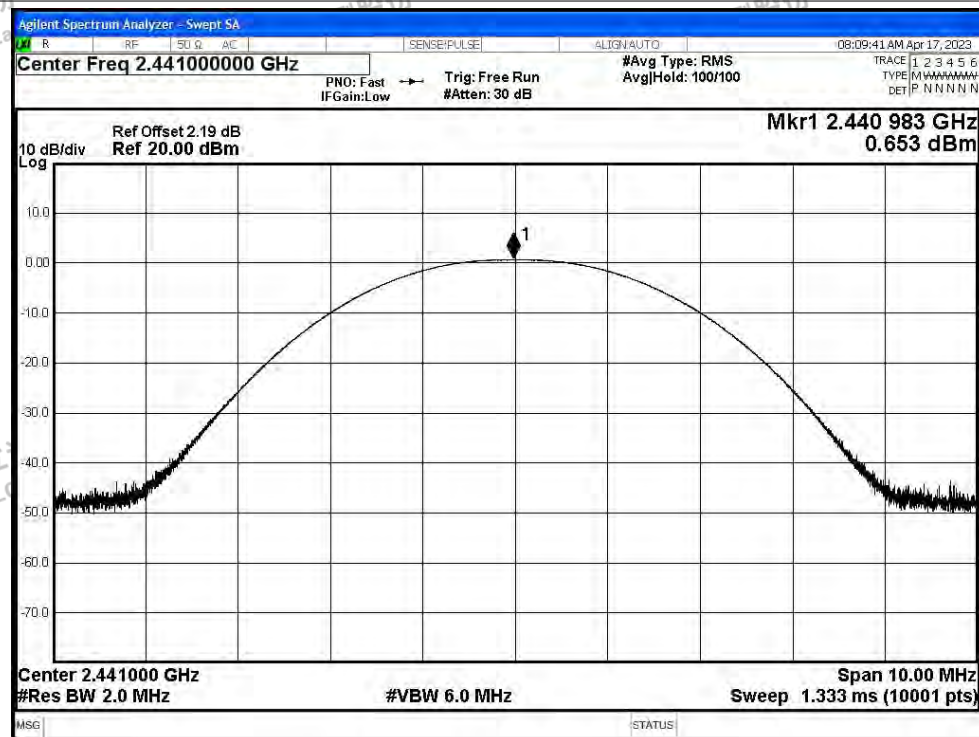


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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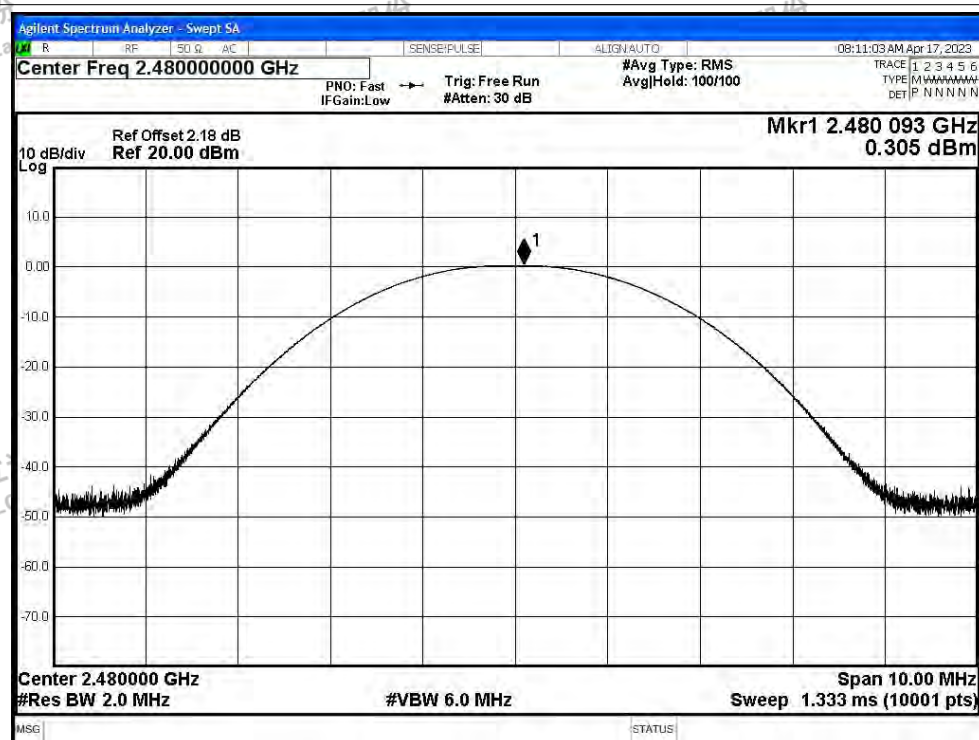
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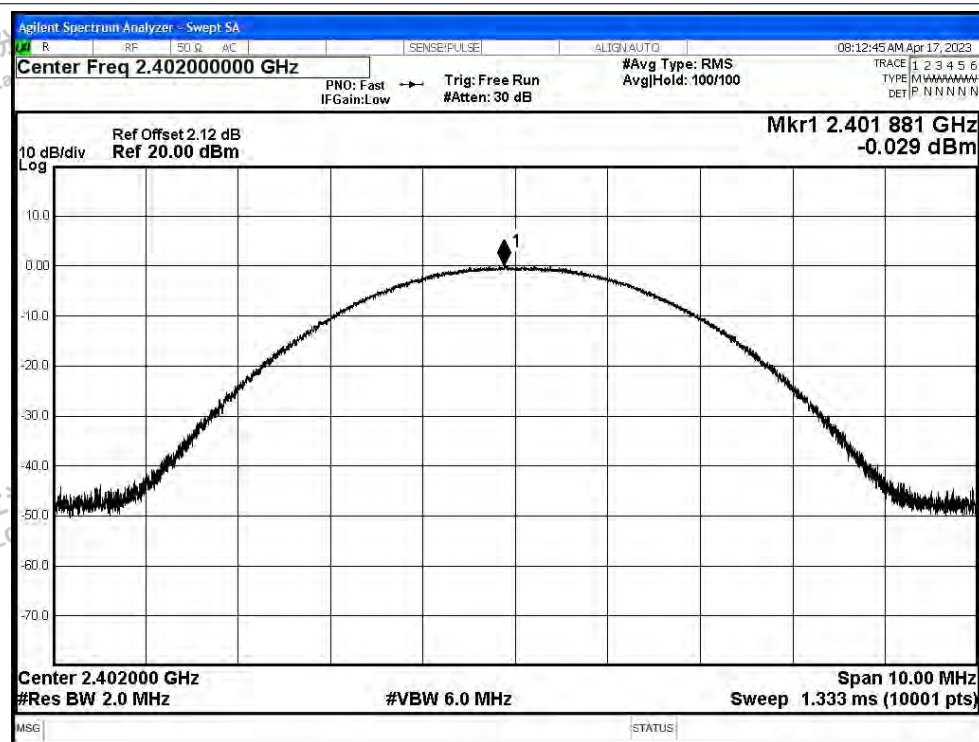
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Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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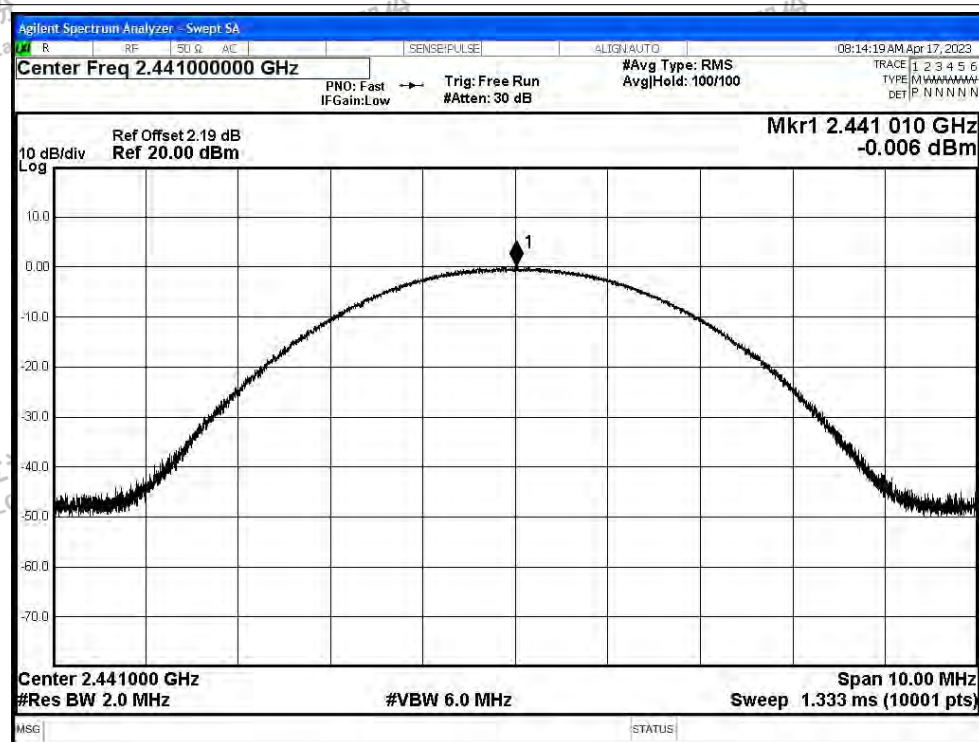
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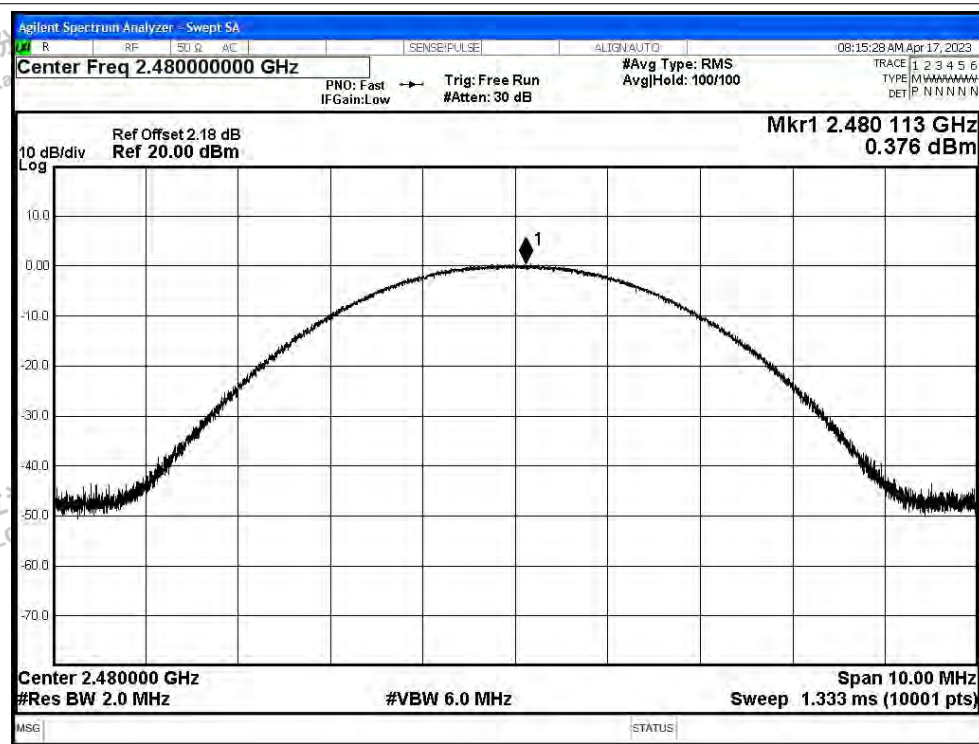
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Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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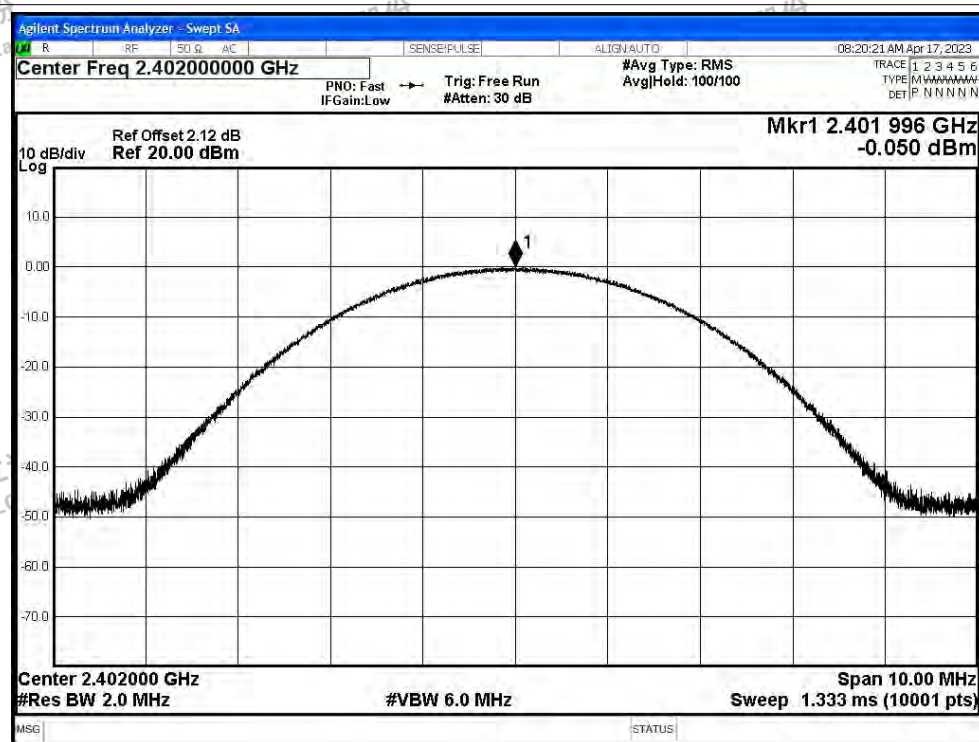
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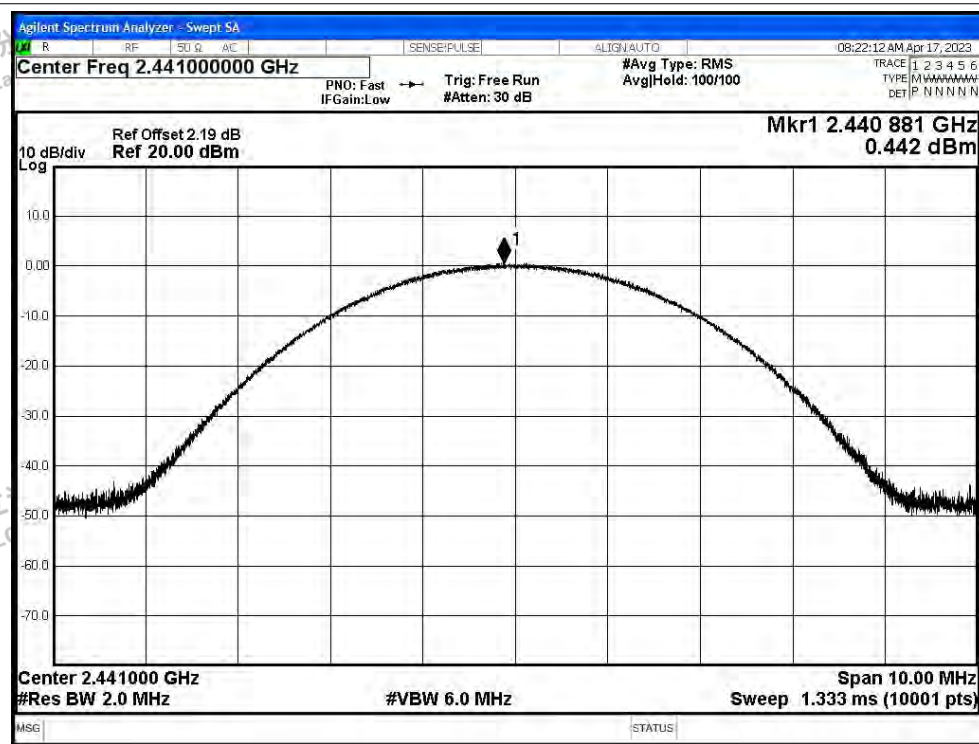
Scan code to check authenticity



Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

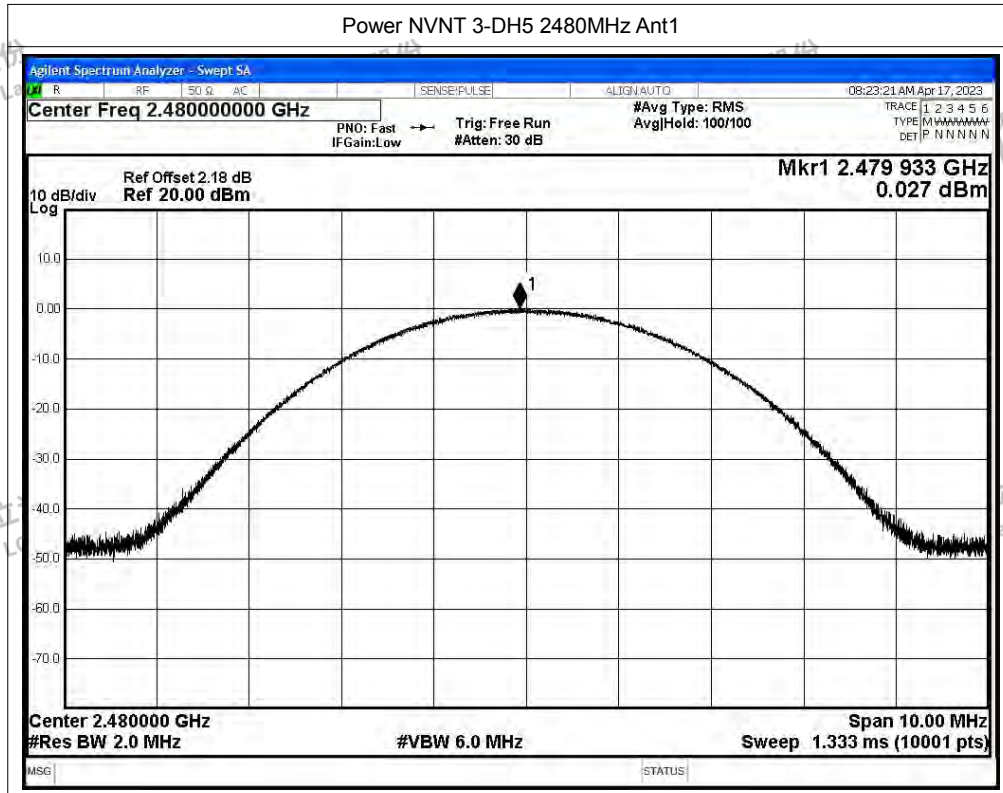


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402	2402.964	0.964	0.689	Pass
NVNT	2-DH5	Ant1	2402.158	2403.164	1.006	0.881	Pass
NVNT	3-DH5	Ant1	2402.002	2403	0.998	0.865	Pass



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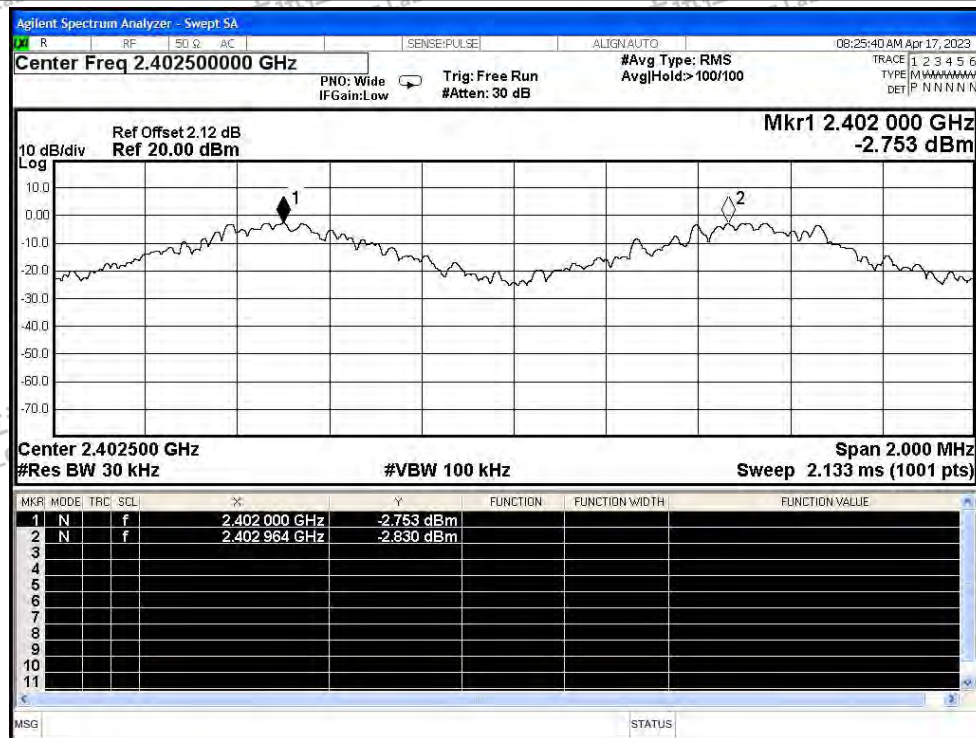
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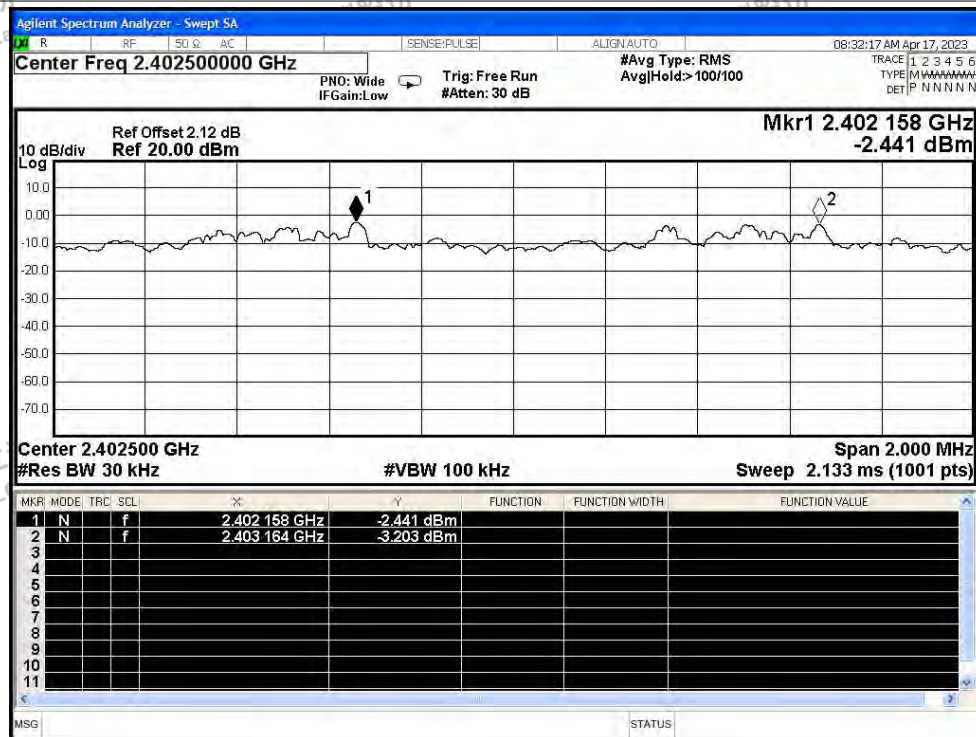


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

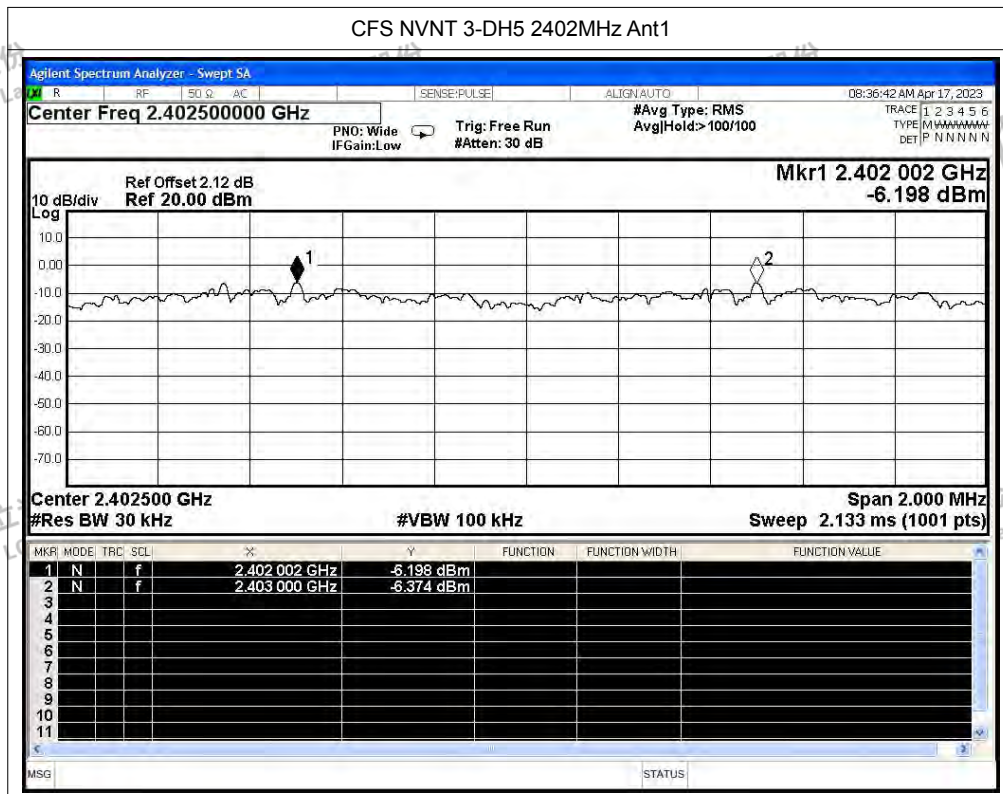


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A.4 Dwell Time

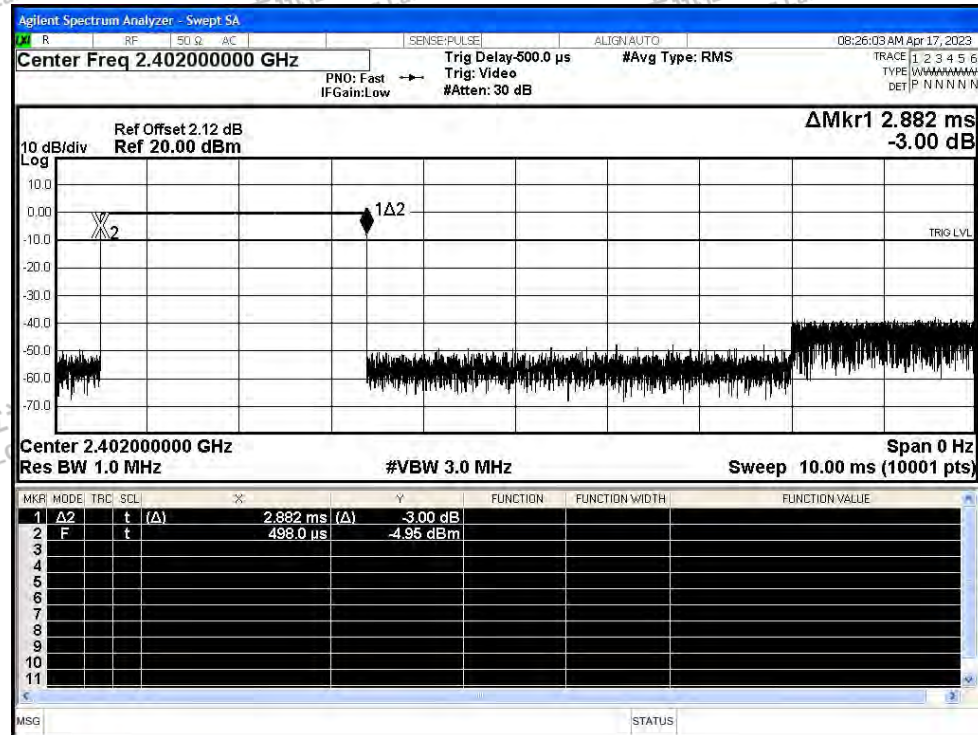
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	319.902	111	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	282.73	98	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	297.361	103	31600	400	Pass



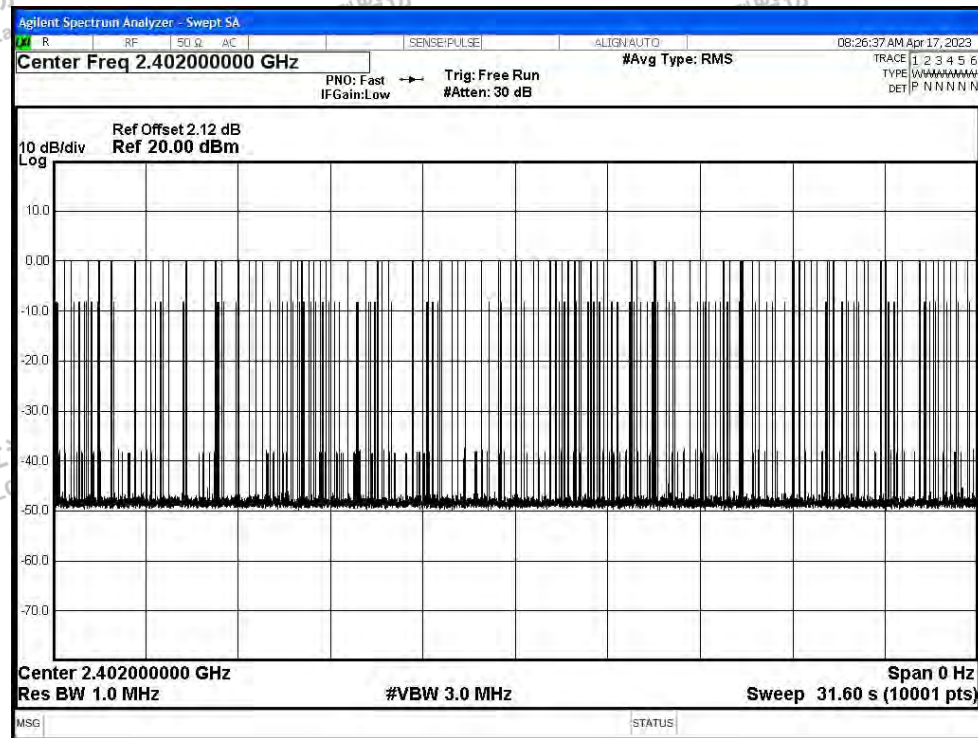


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

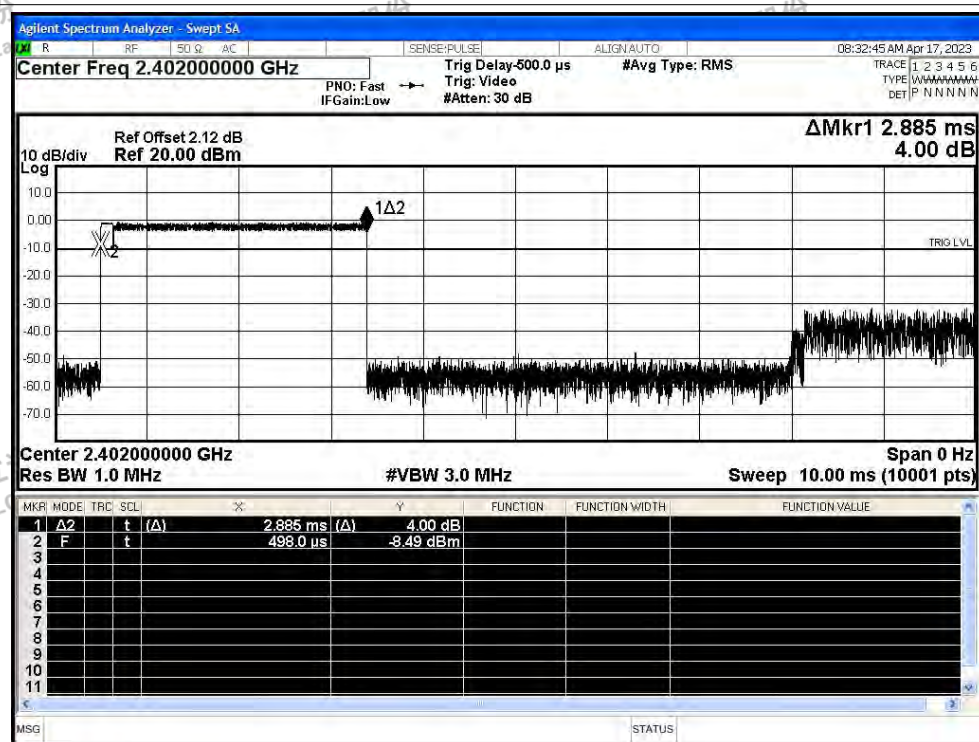
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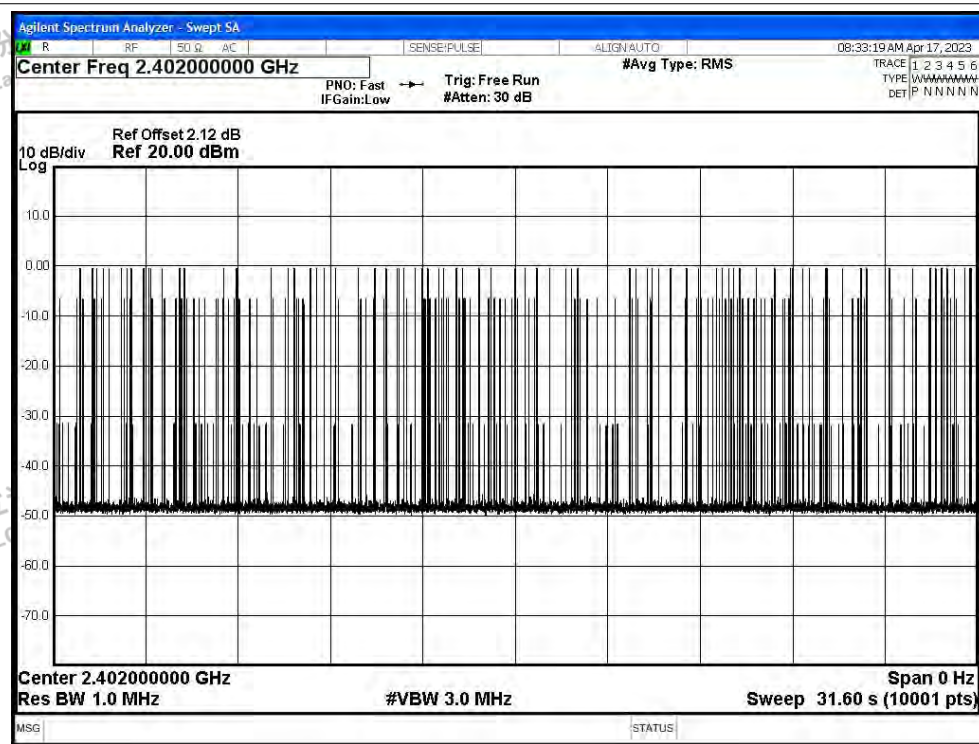
Scan code to check authenticity



Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

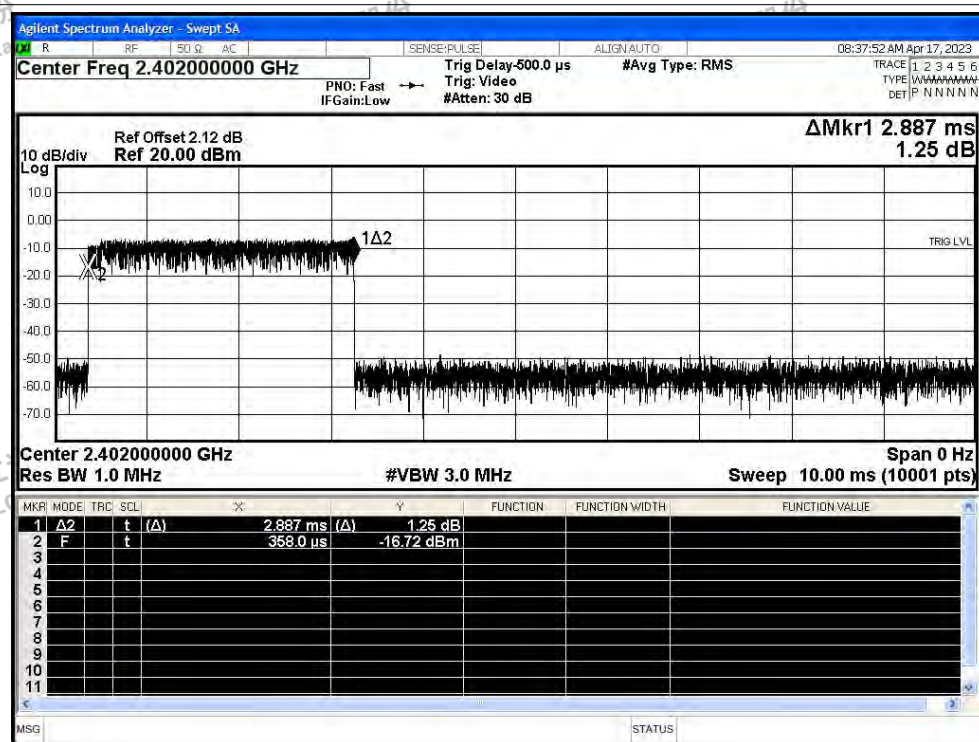
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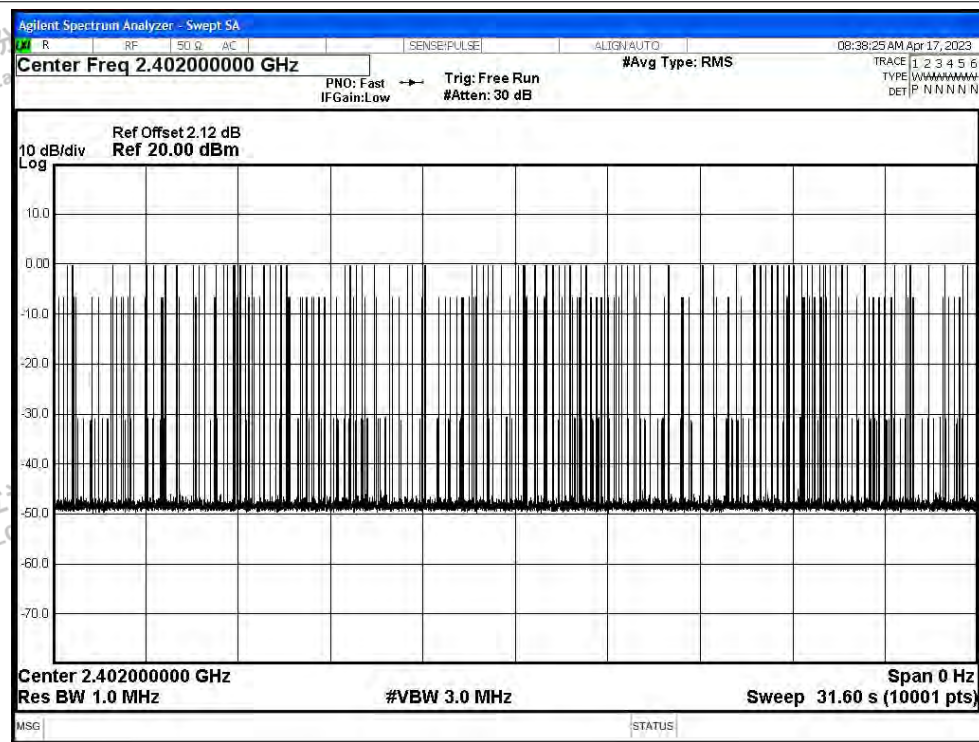
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

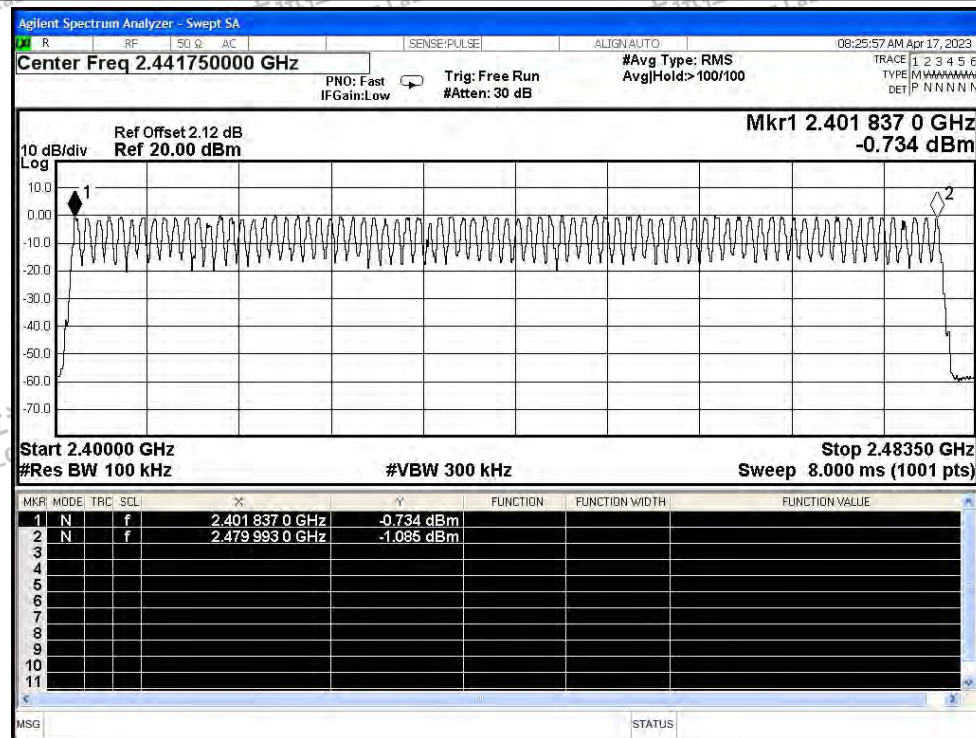
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



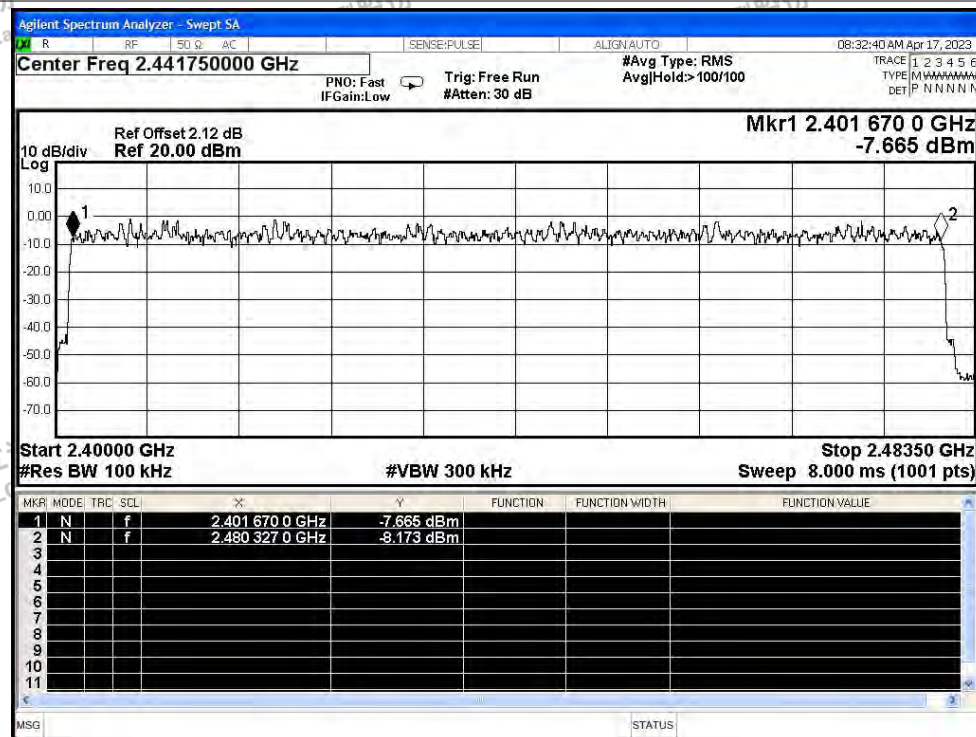


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

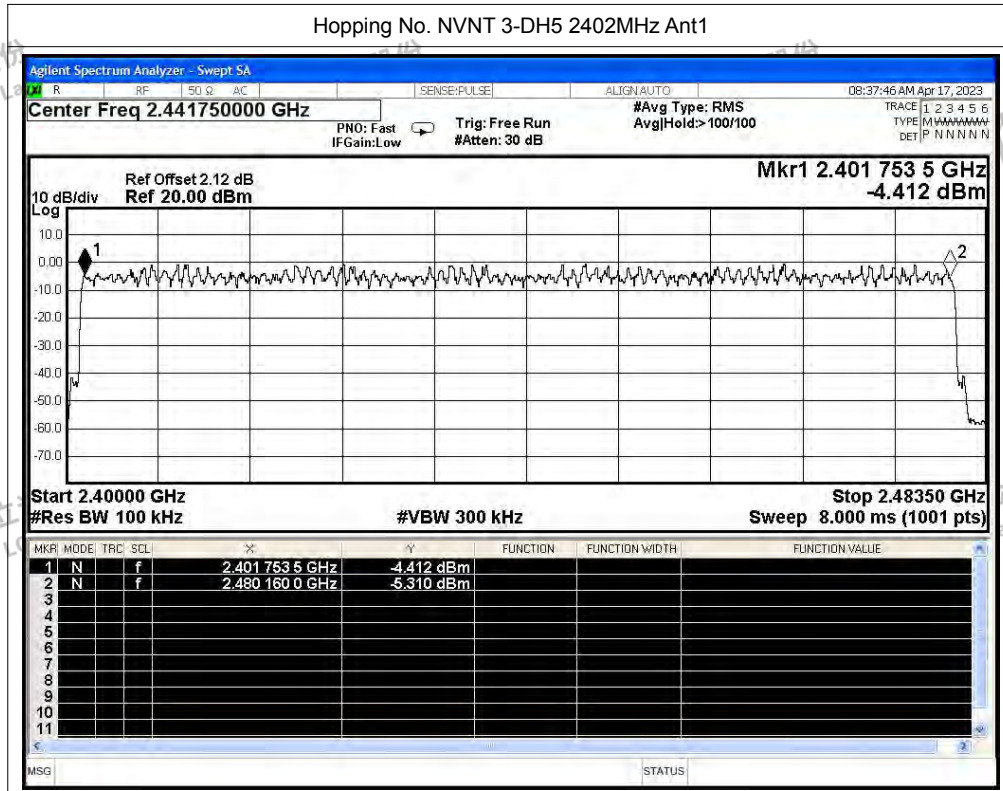


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.31	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.18	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.09	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.54	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.27	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.6	-20	Pass



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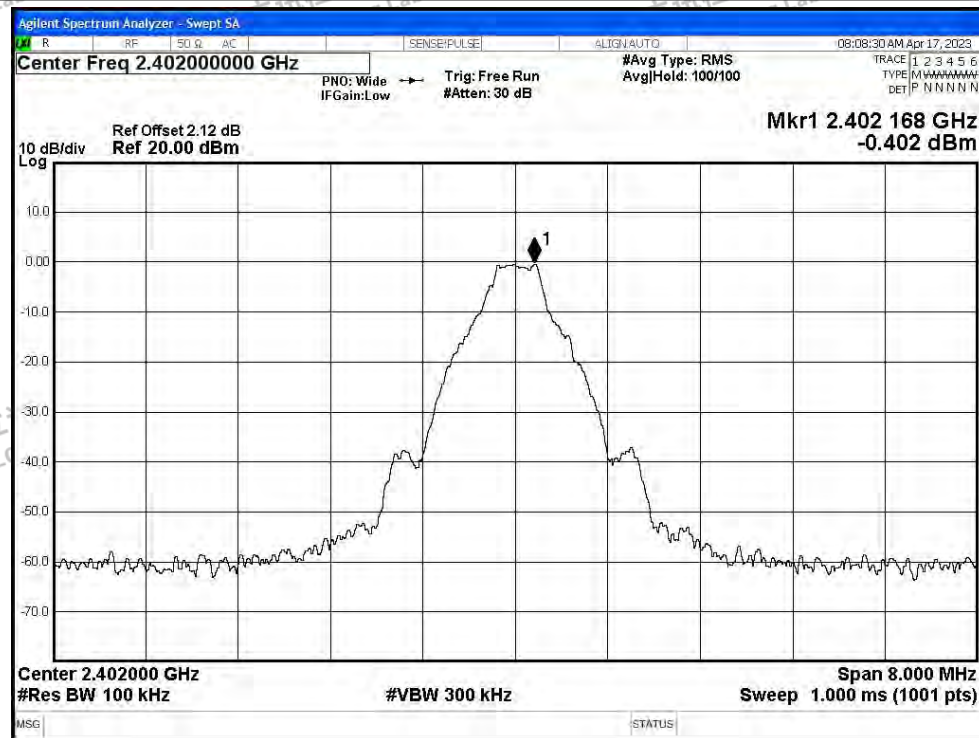
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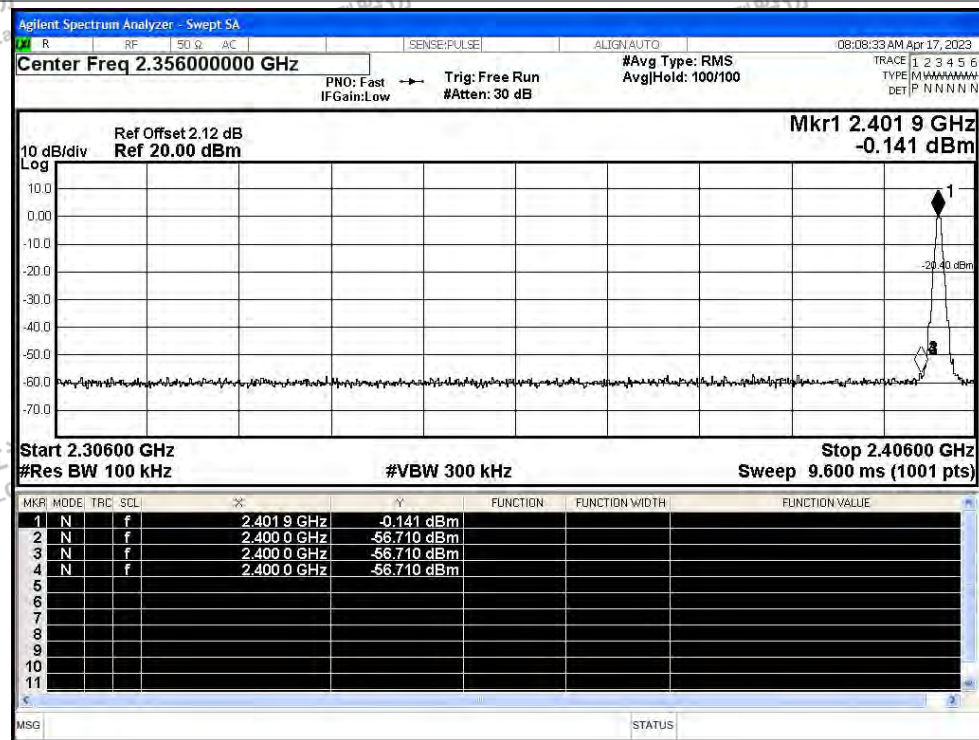


Test Graphs

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



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



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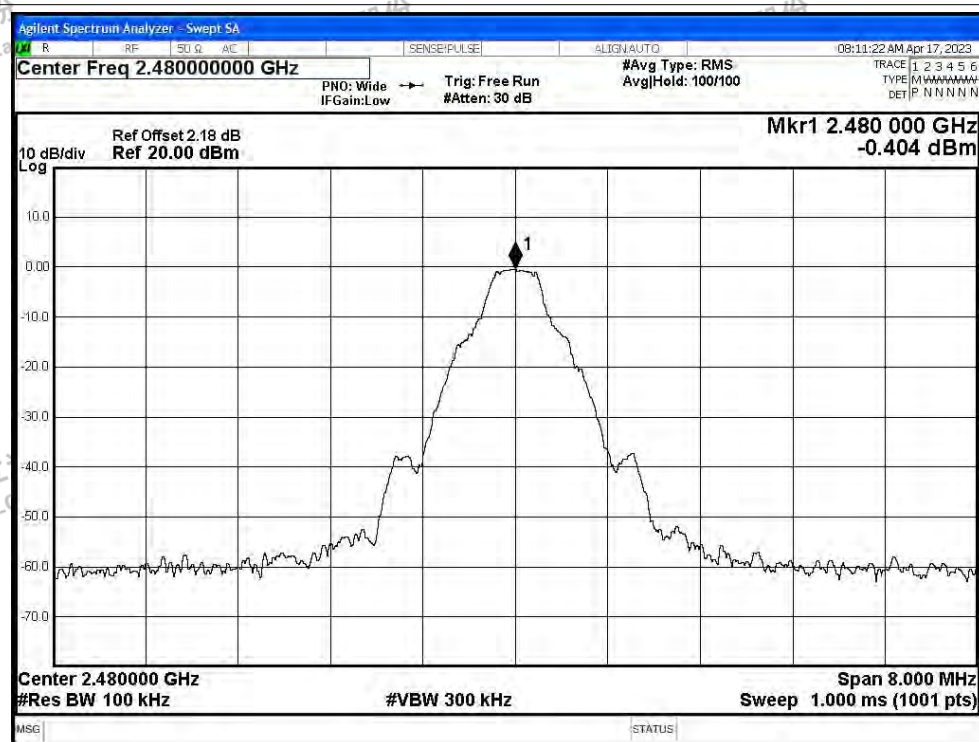
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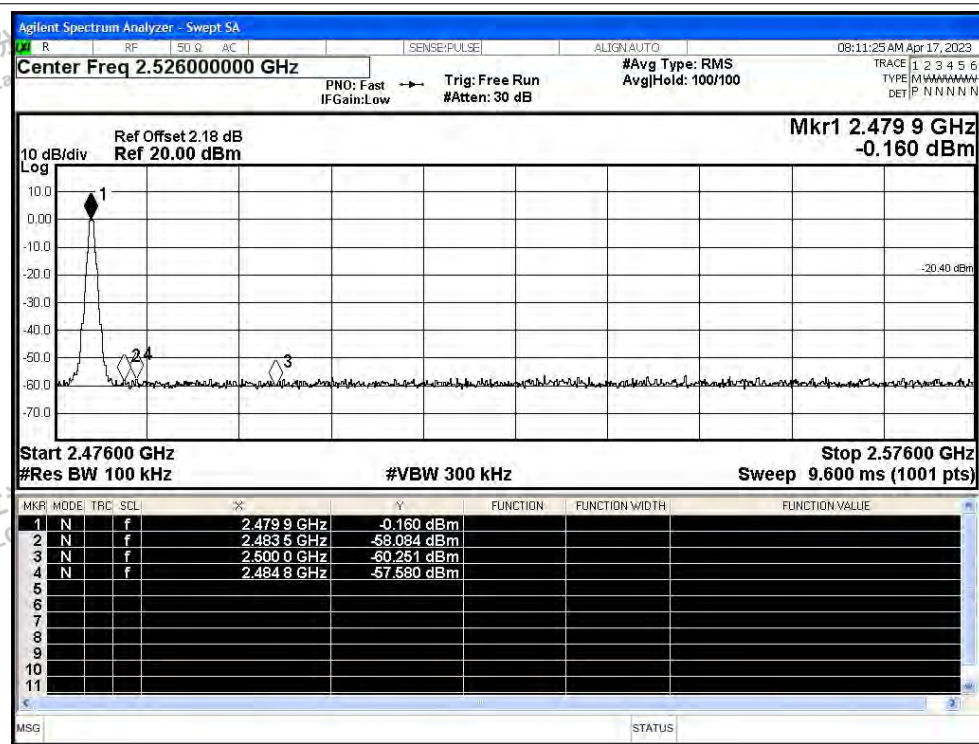
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

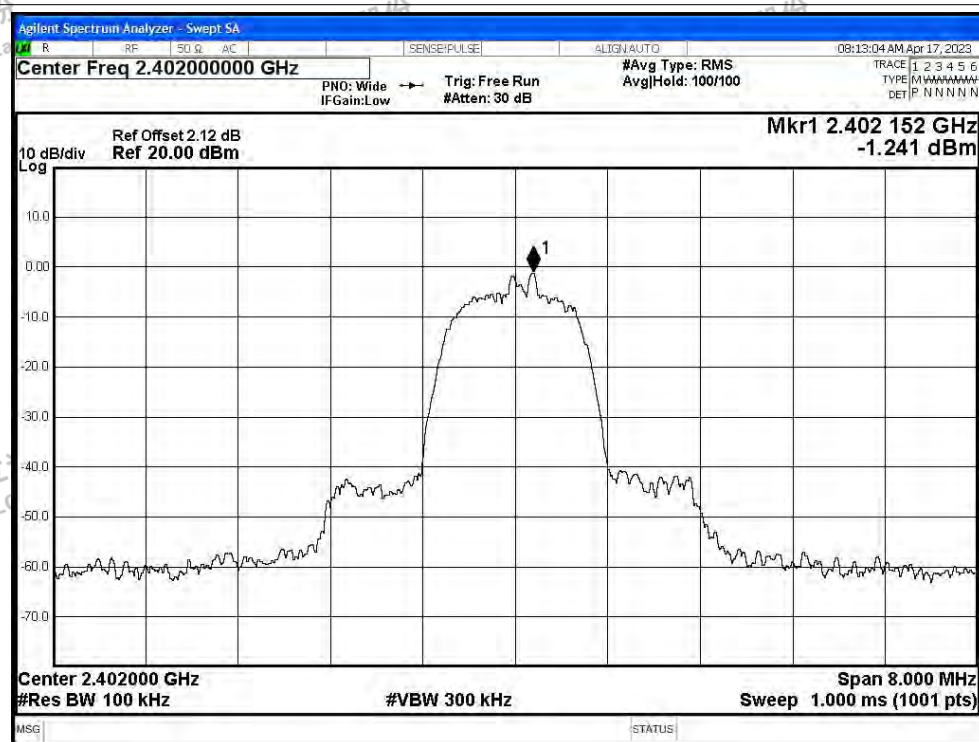
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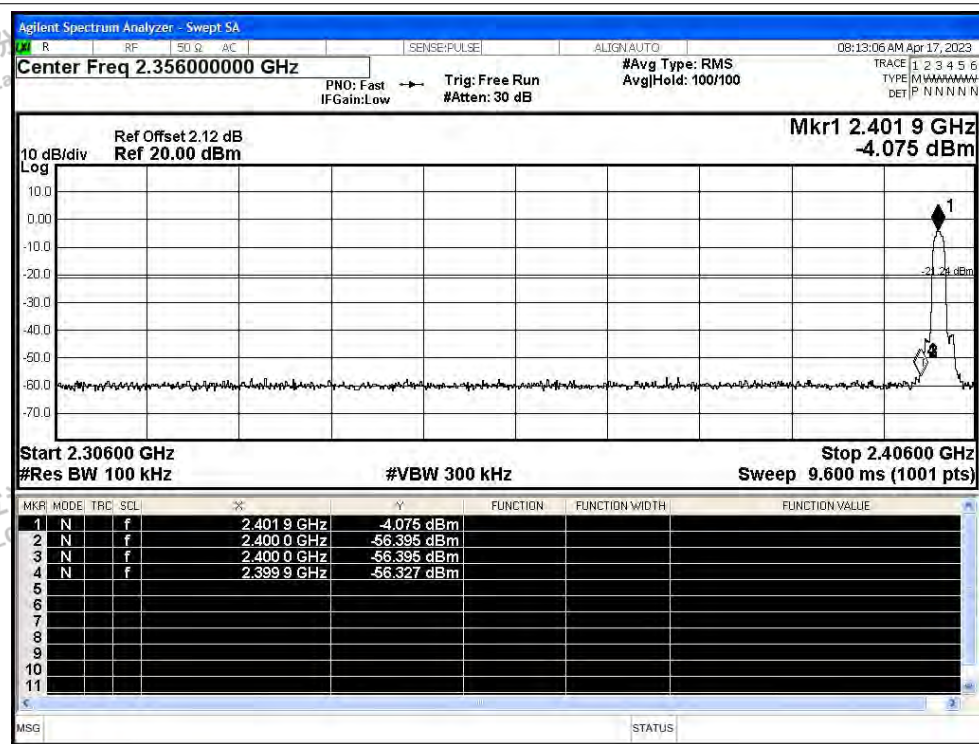
Scan code to check authenticity



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



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



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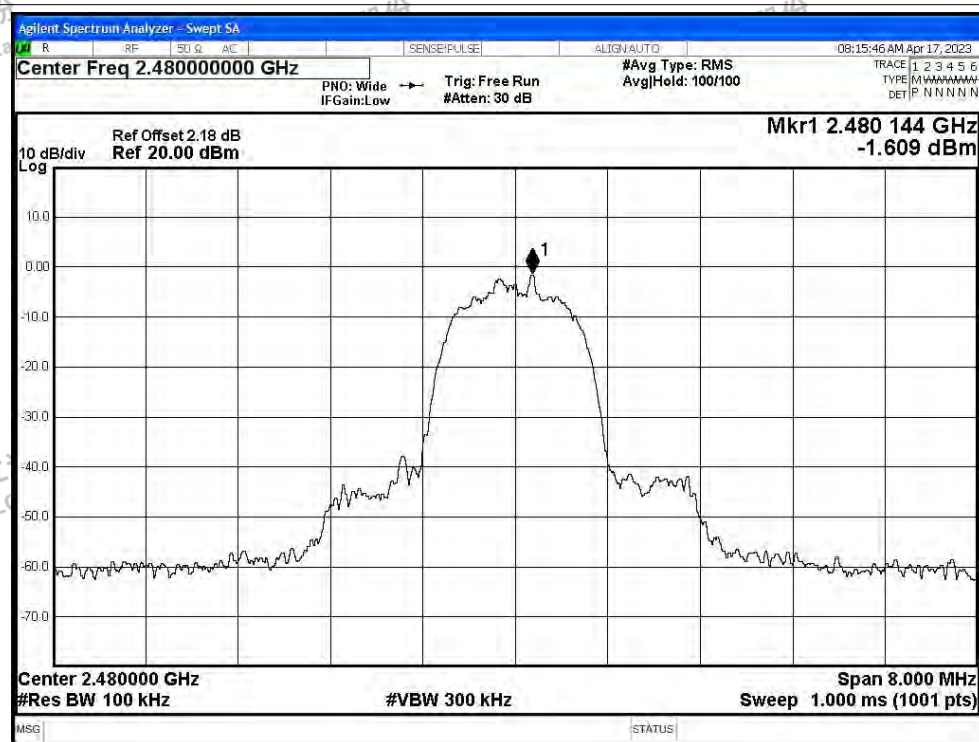
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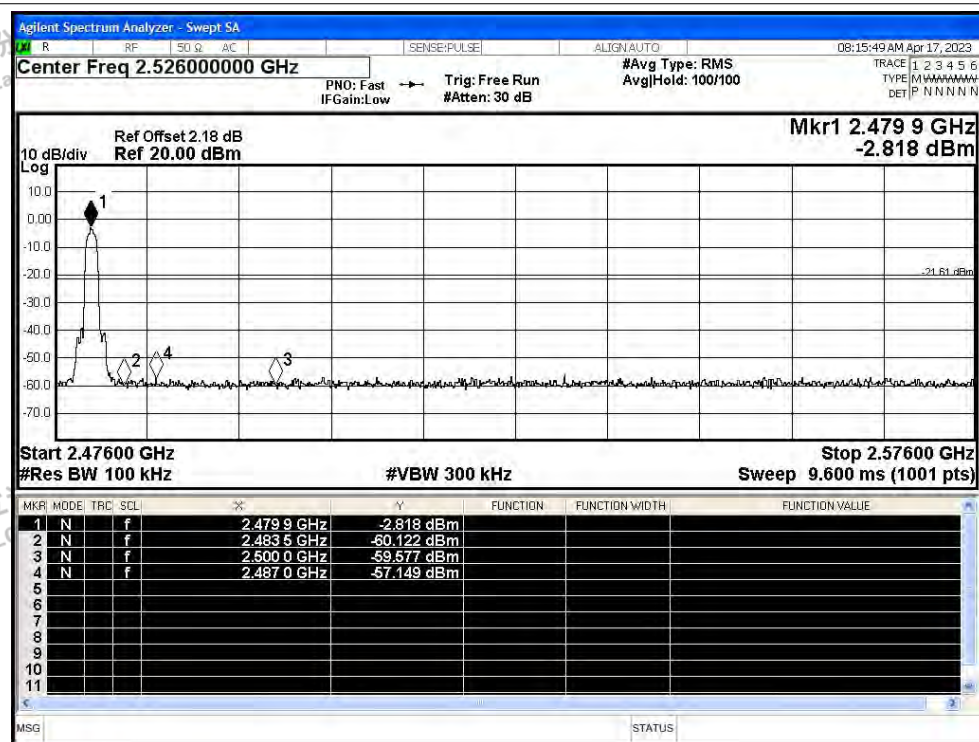
Scan code to check authenticity



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



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



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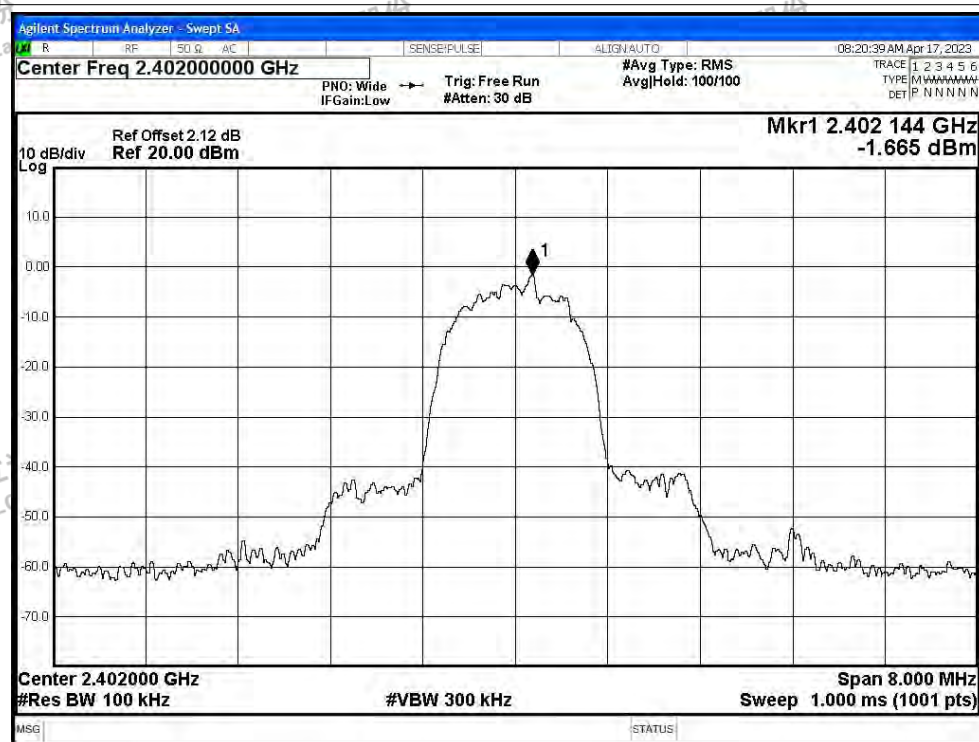
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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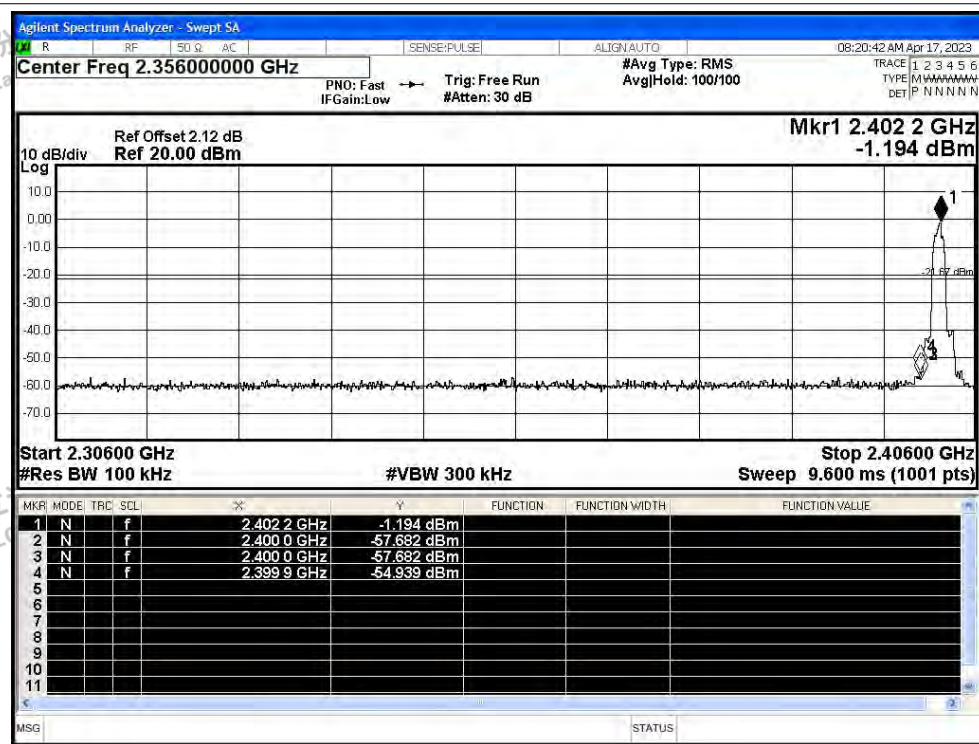
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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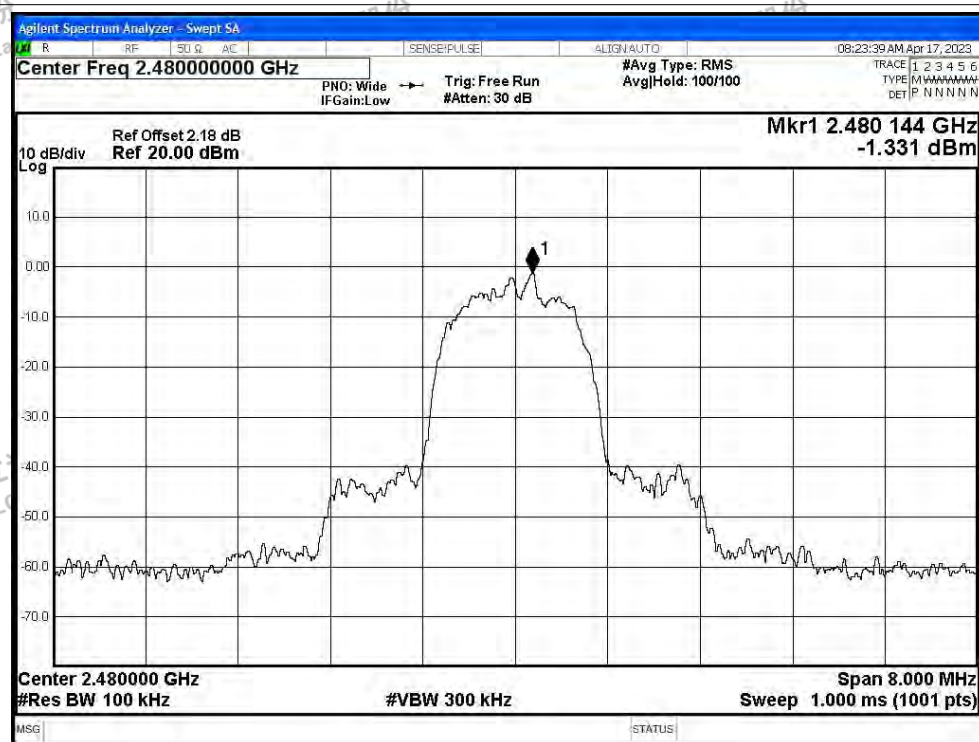
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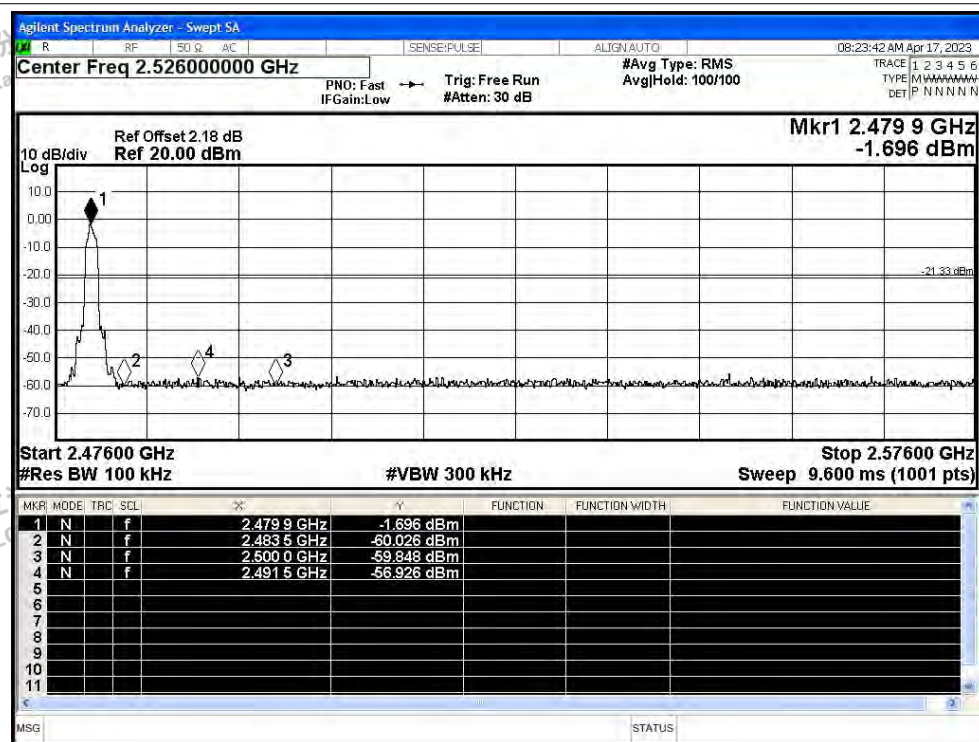
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



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(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.89	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.52	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.88	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.63	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-55.03	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.53	-20	Pass



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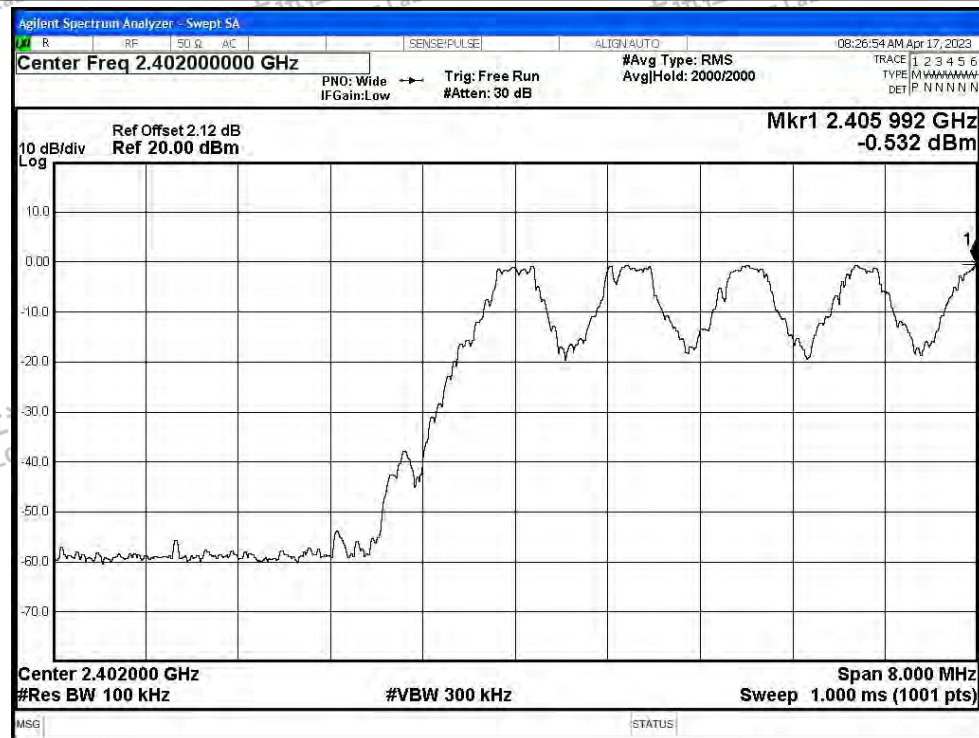
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

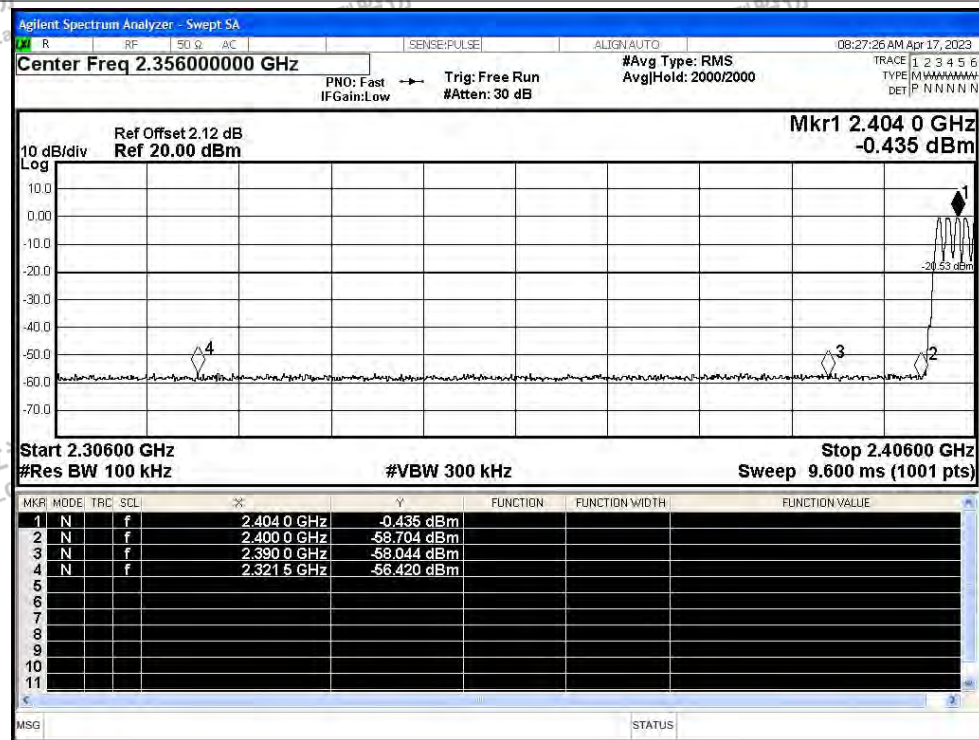


Test Graphs

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



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



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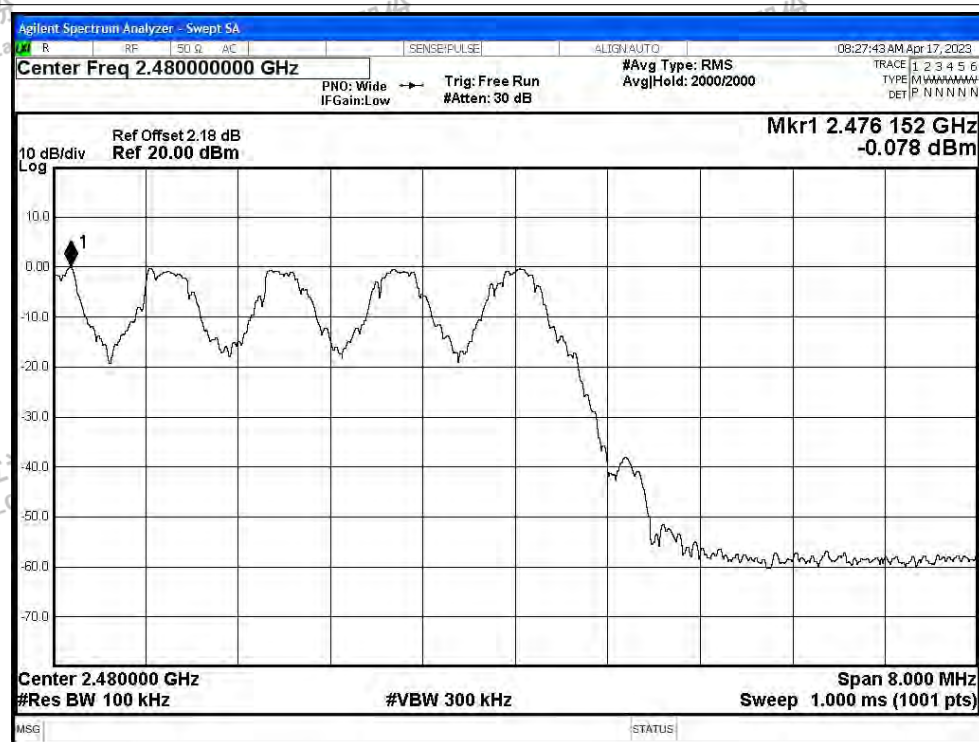
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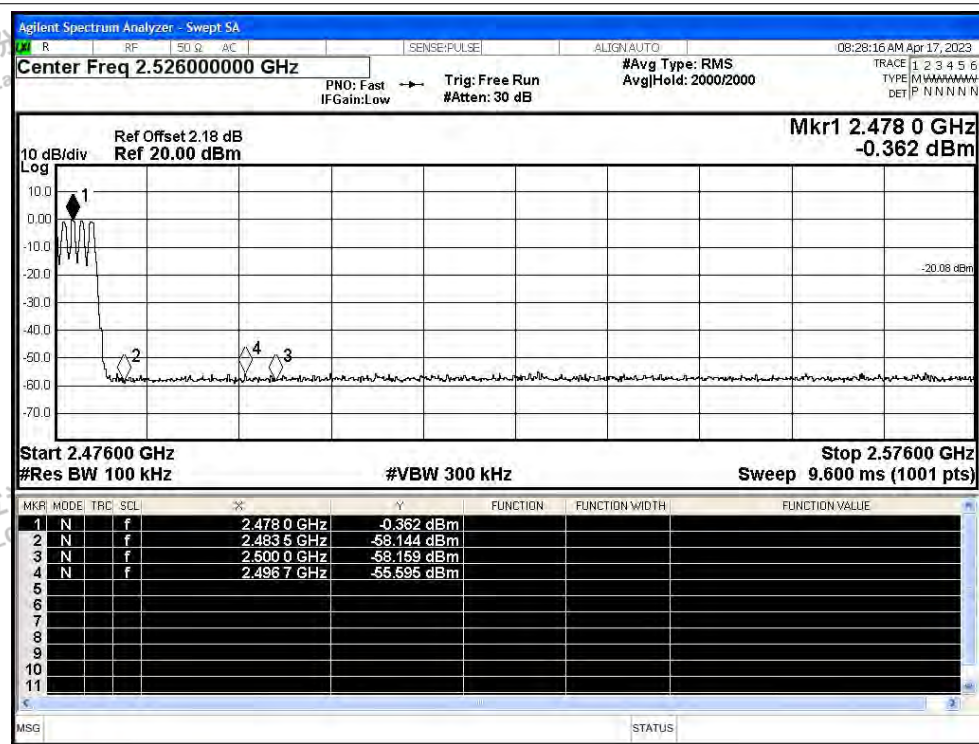
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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



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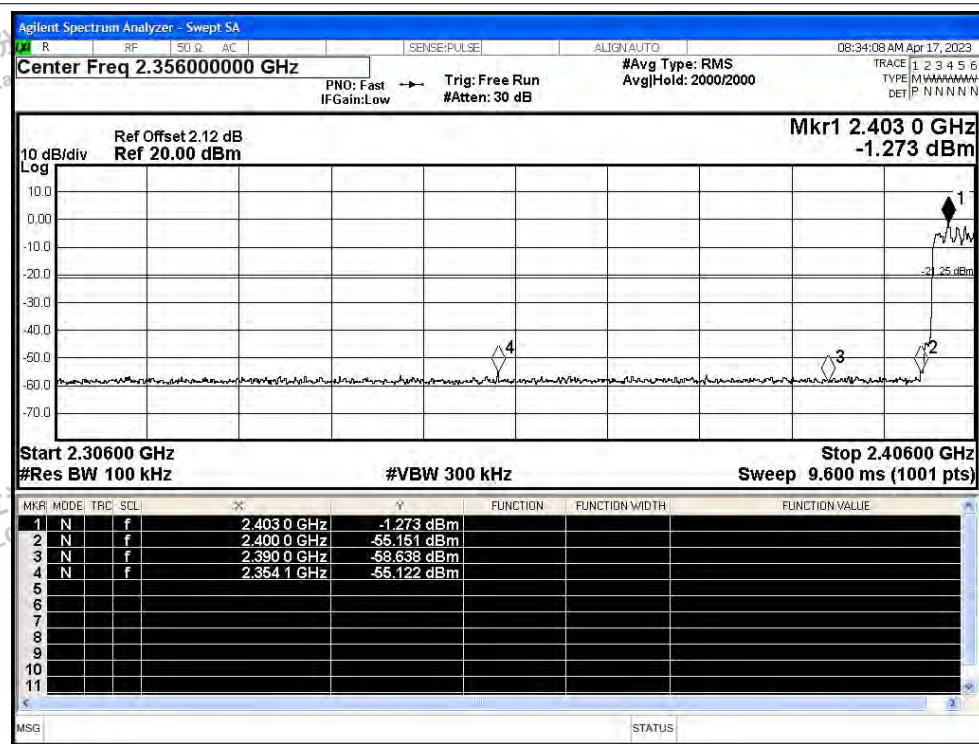
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

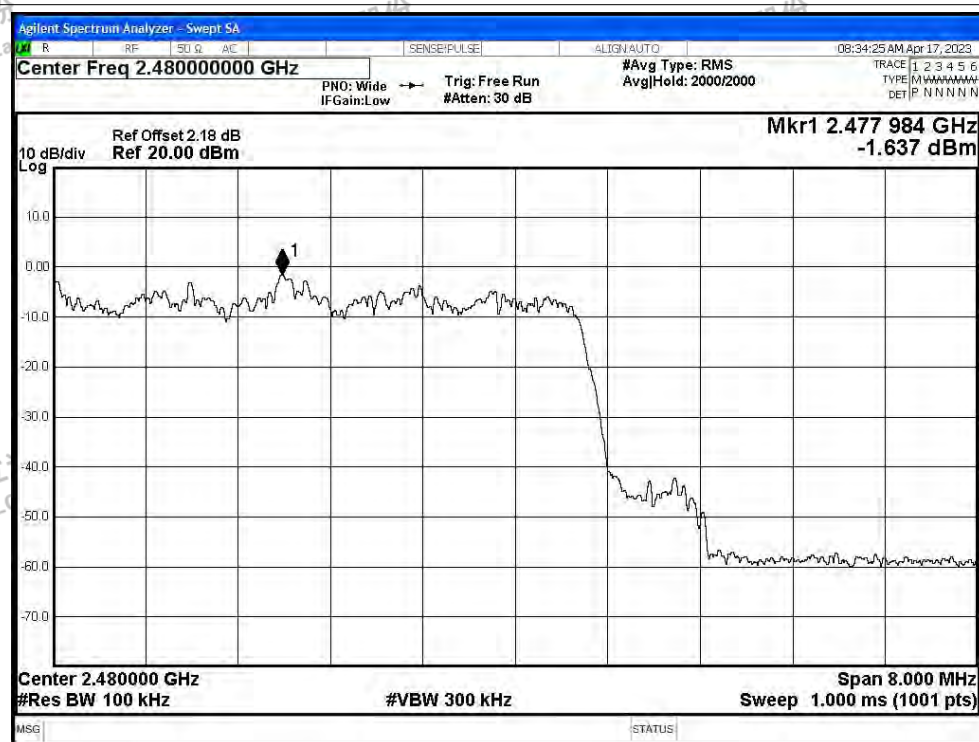
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

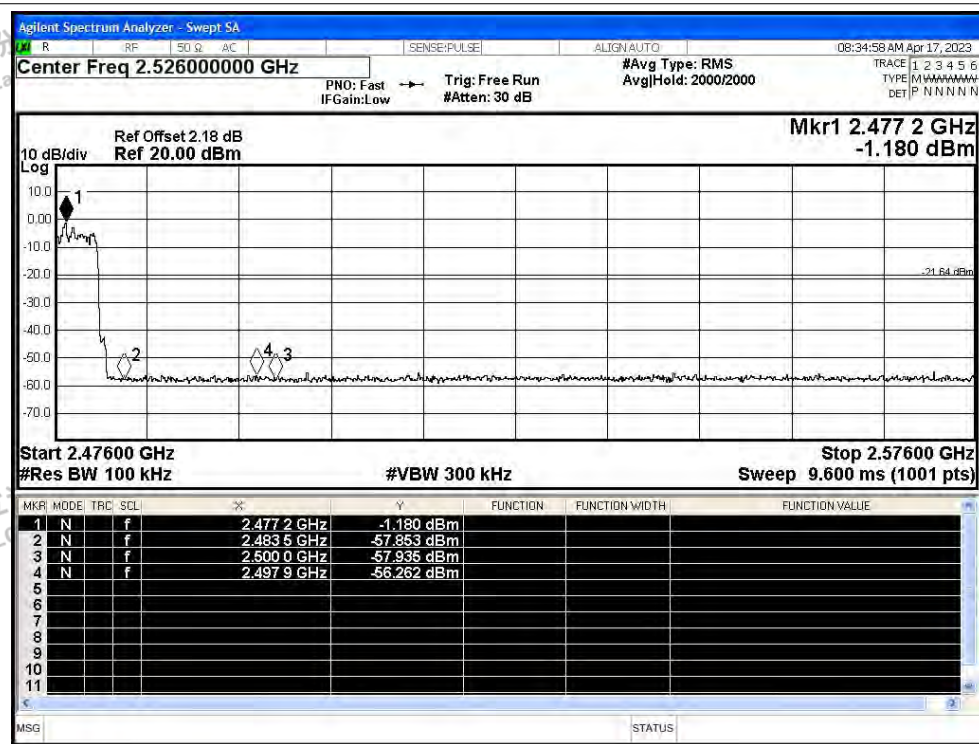
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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



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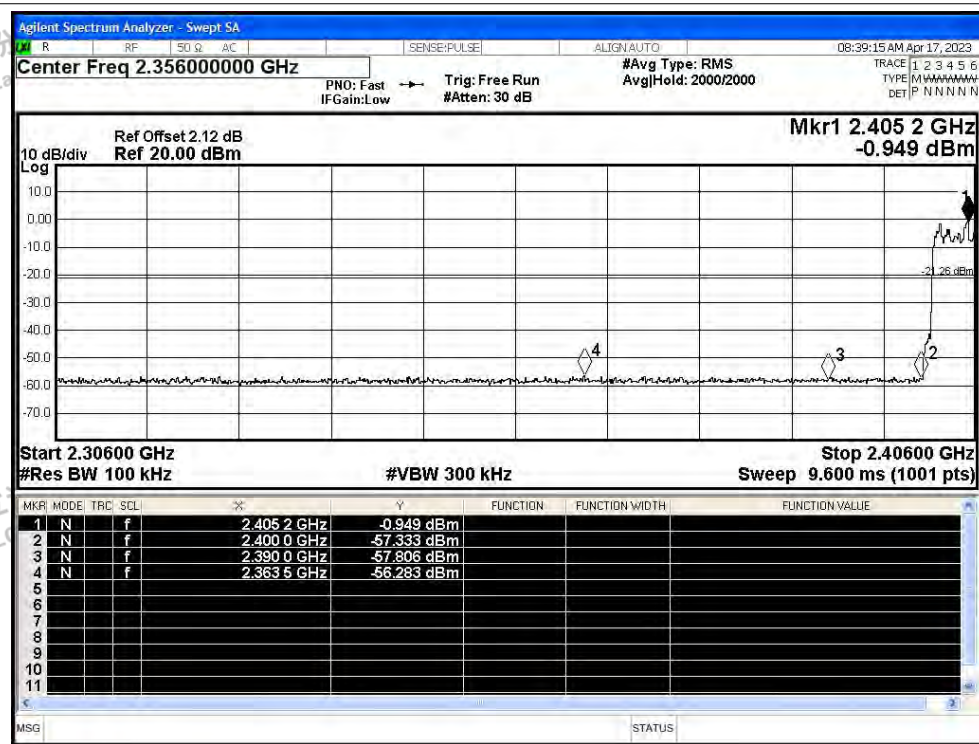
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

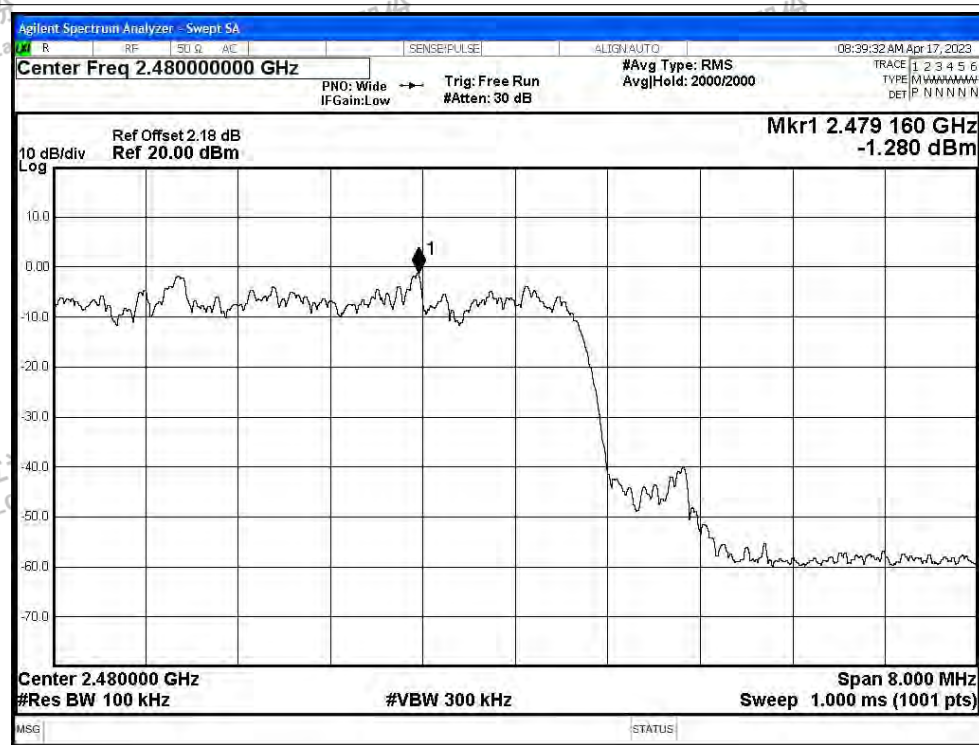
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

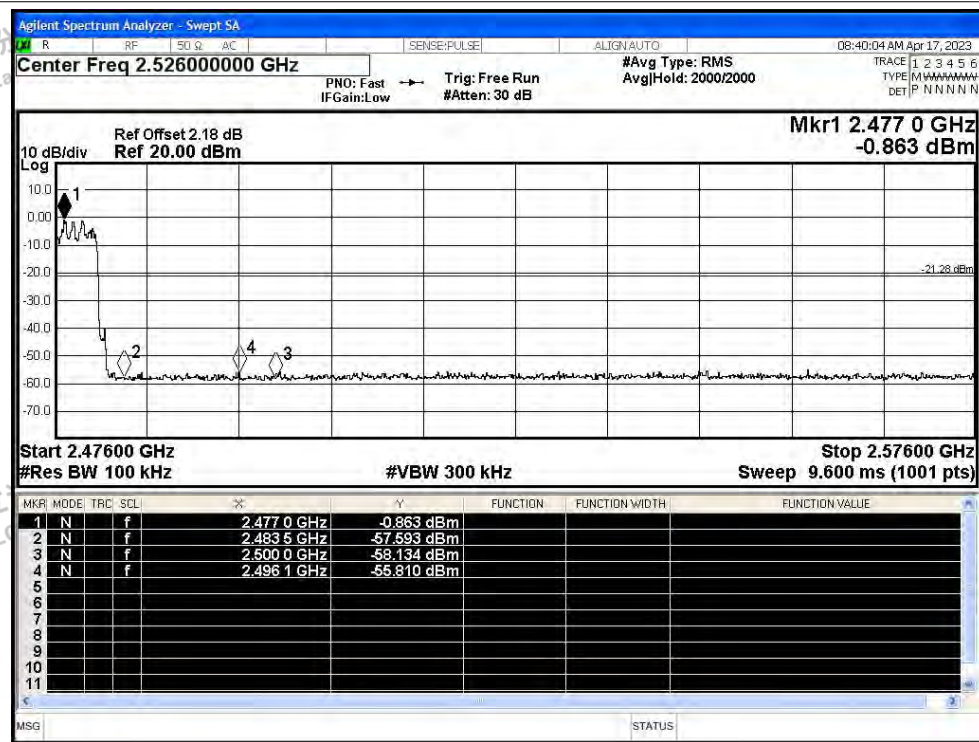
Scan code to check authenticity



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



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



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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.97	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.27	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.69	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.97	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.68	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.5	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.21	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.19	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.77	-20	Pass



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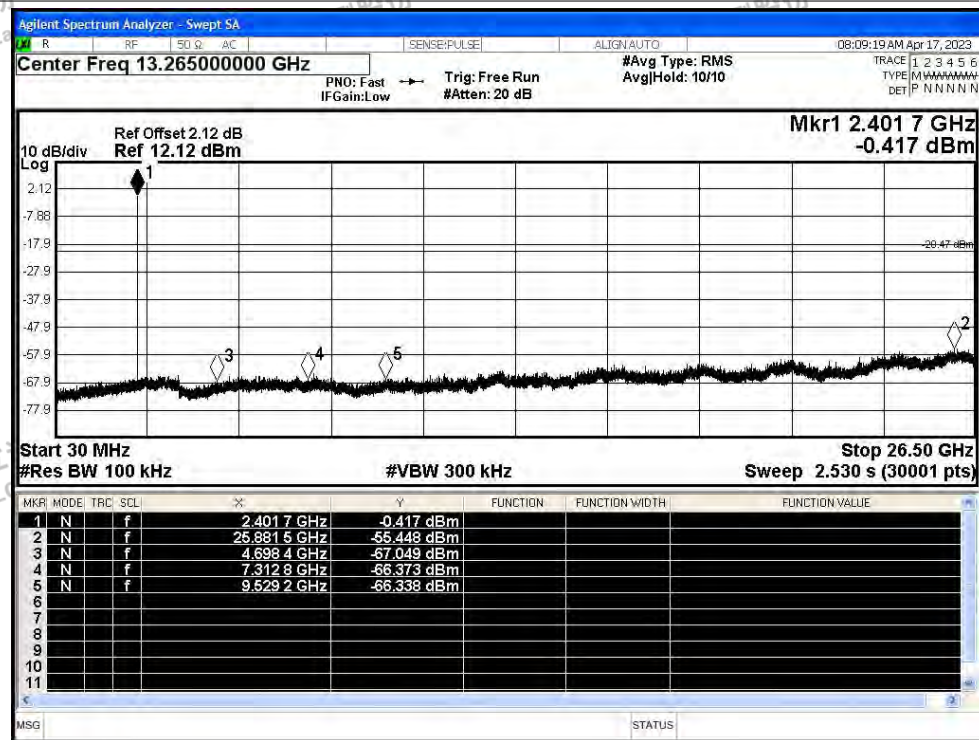


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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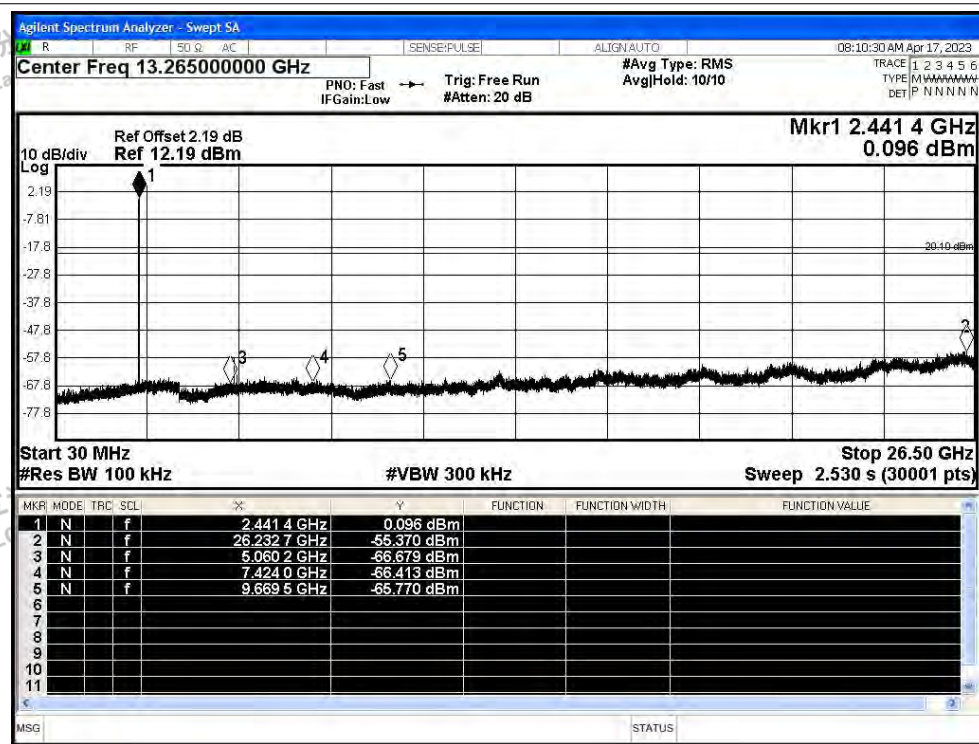
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

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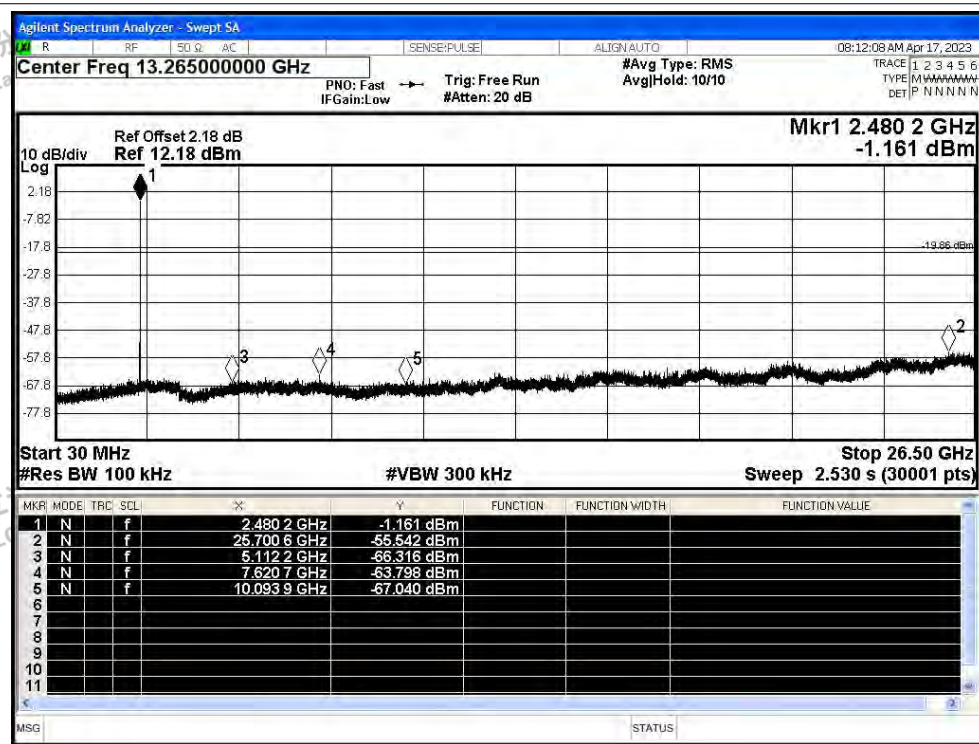
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



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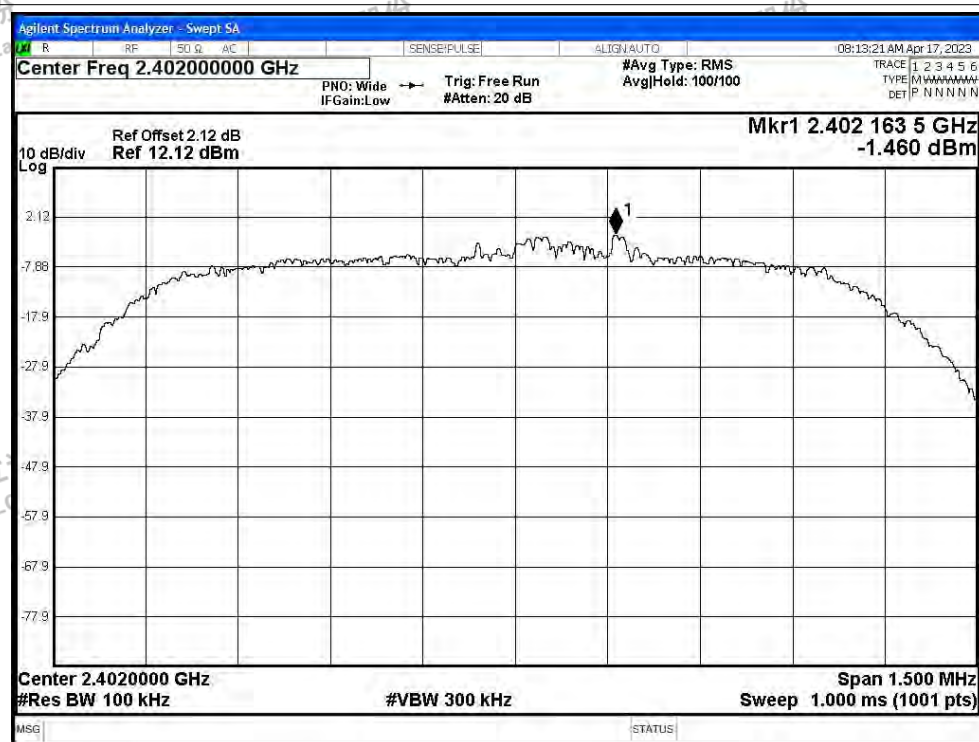
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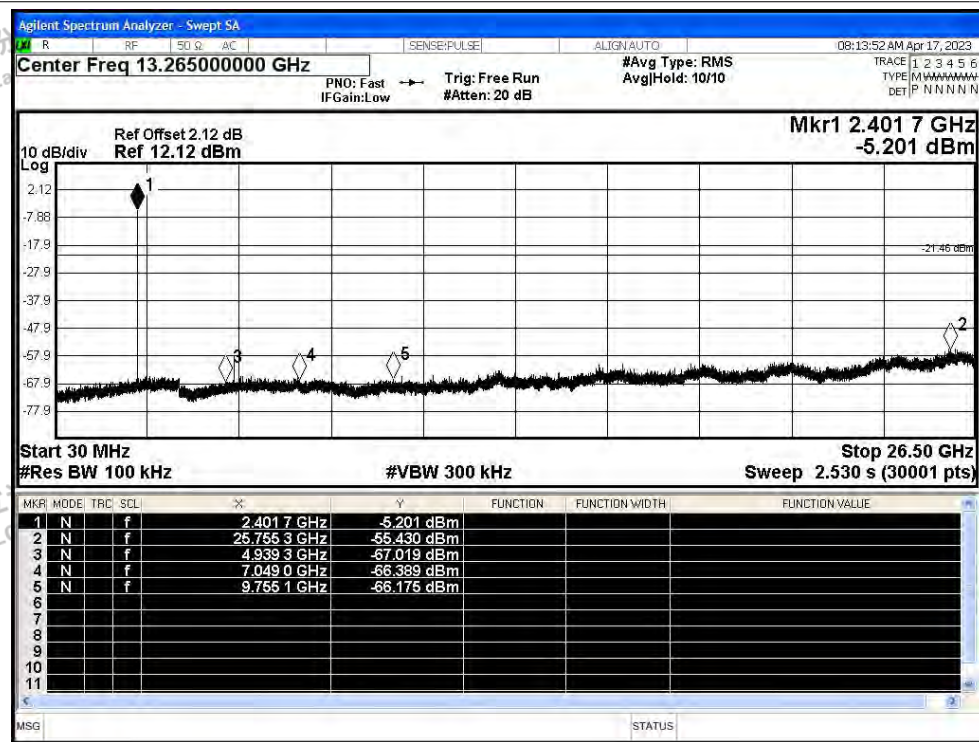
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

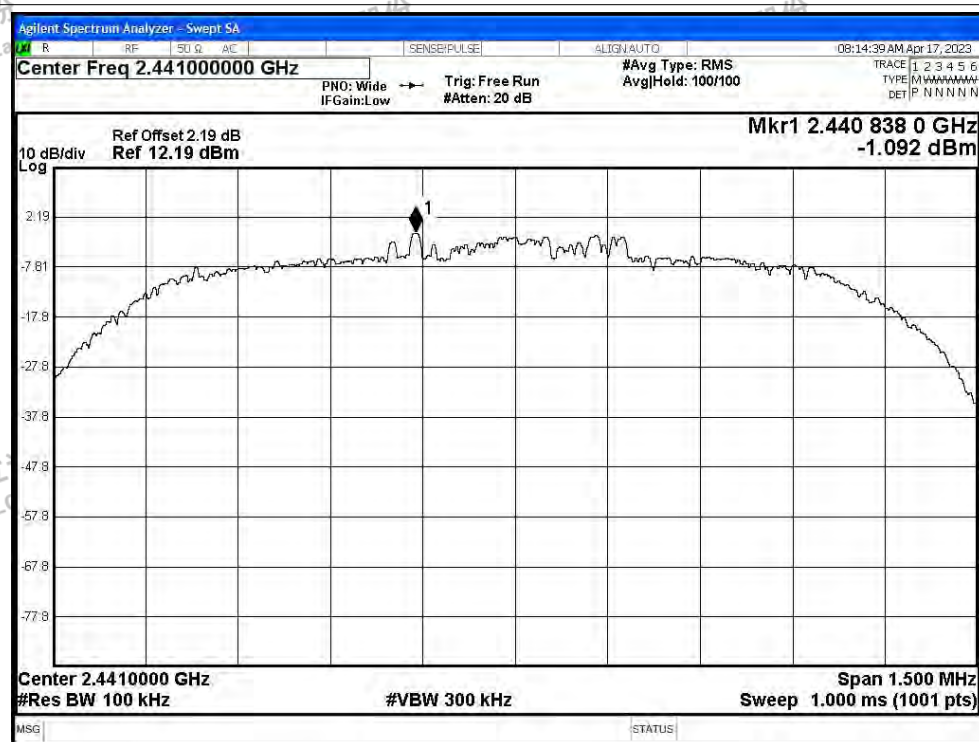
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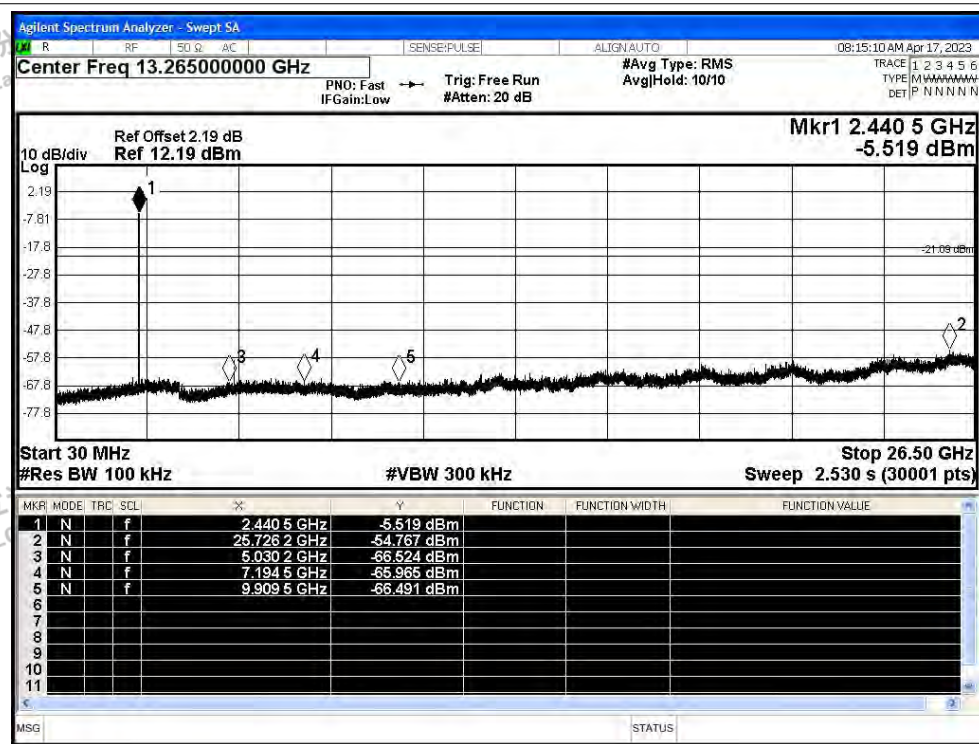
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

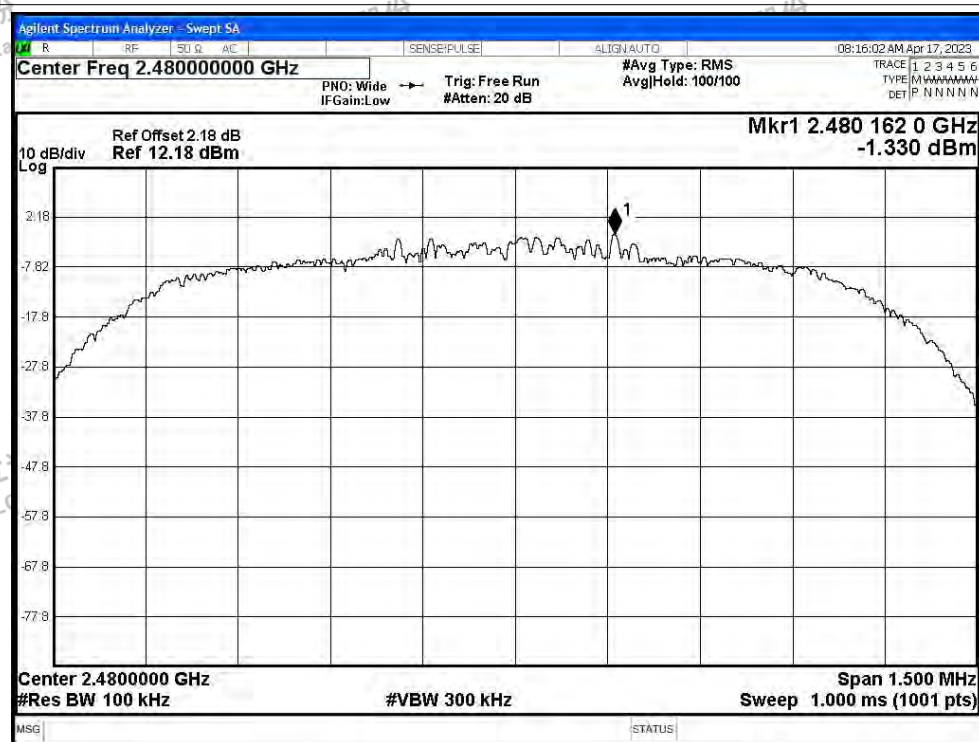
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

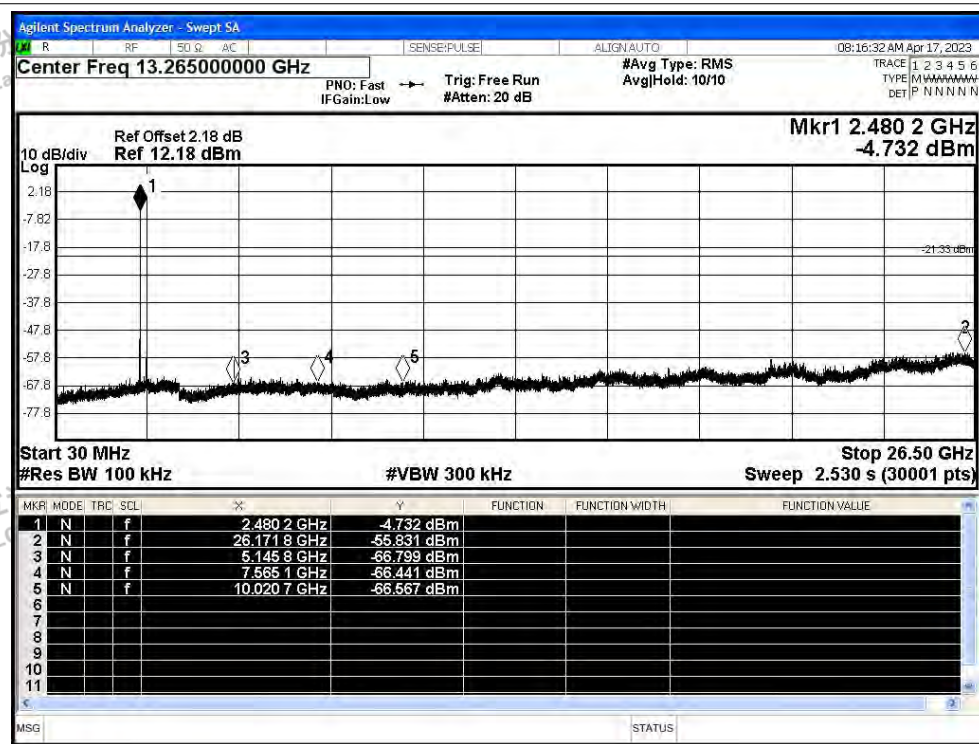
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

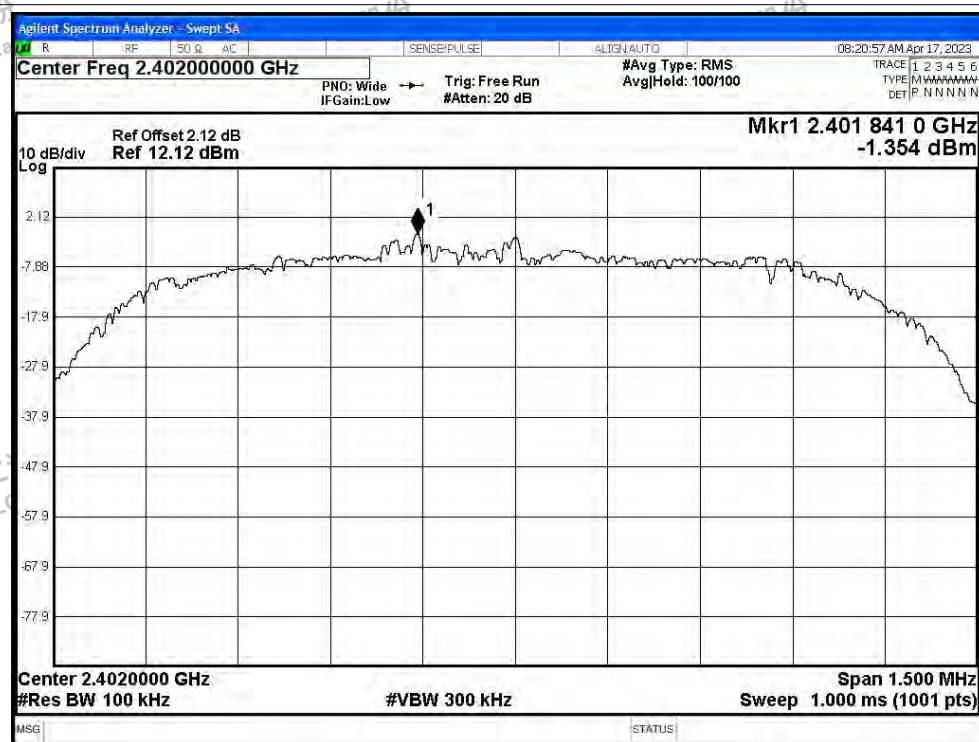
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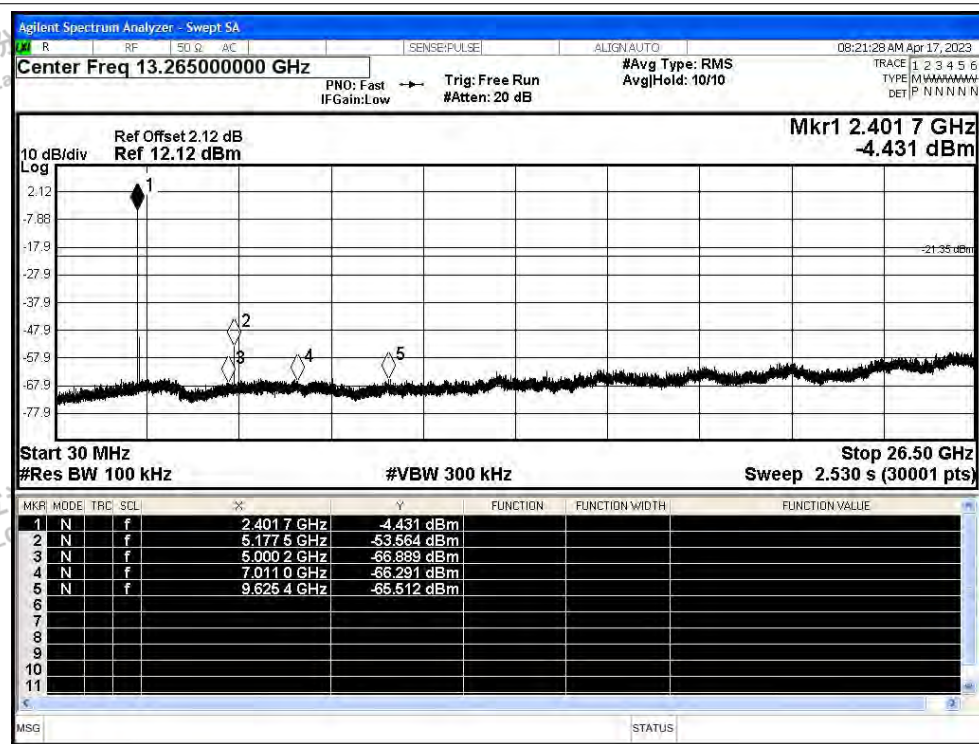
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

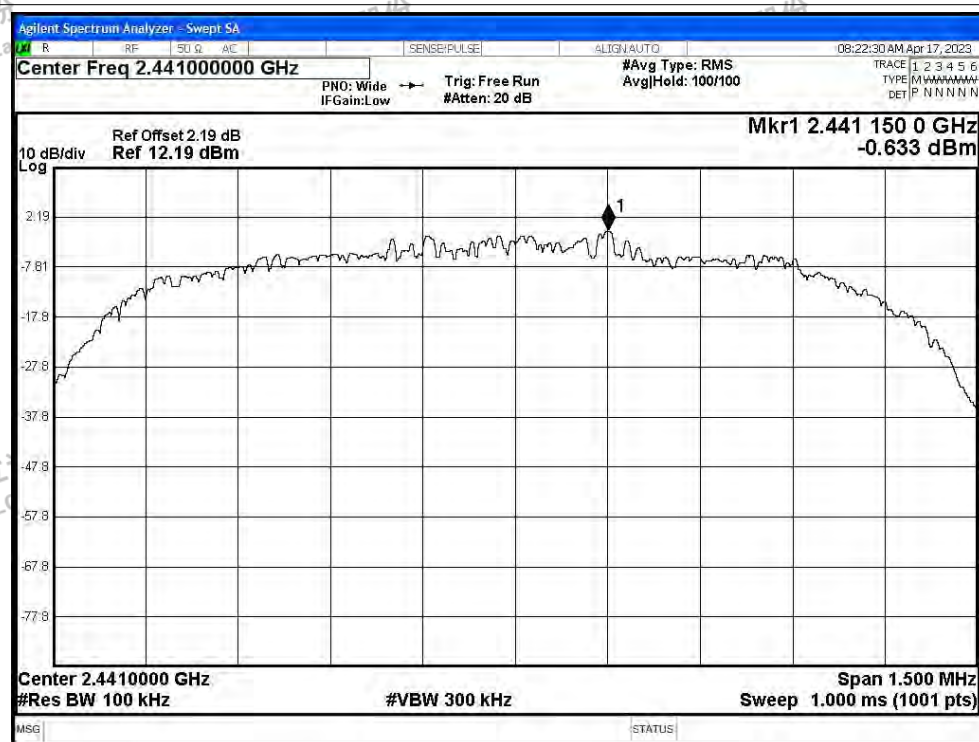
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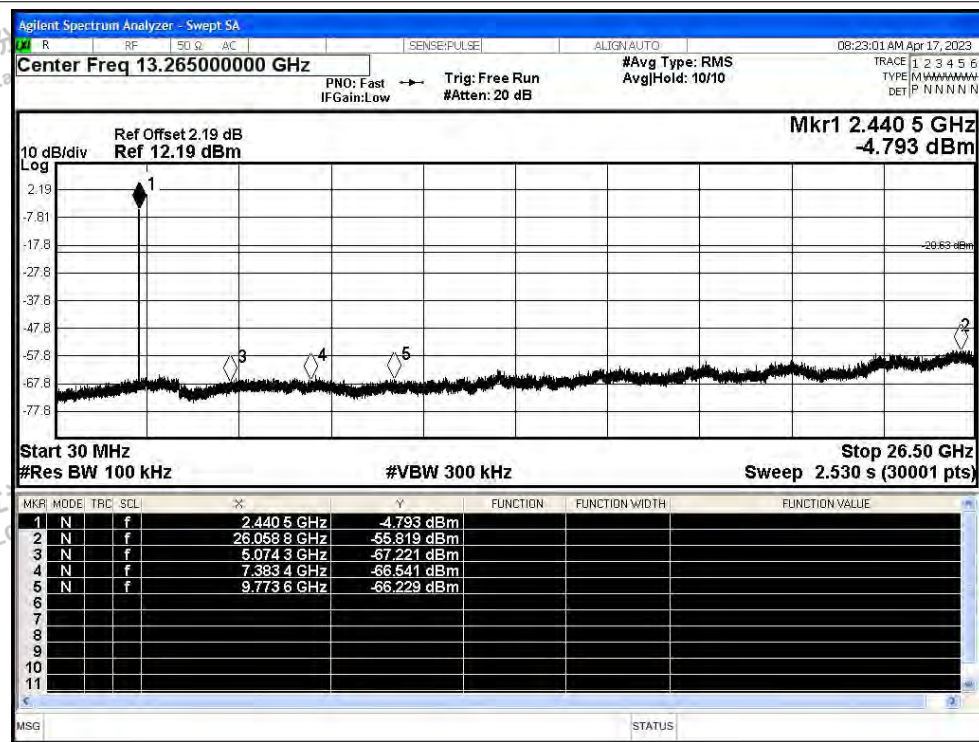
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

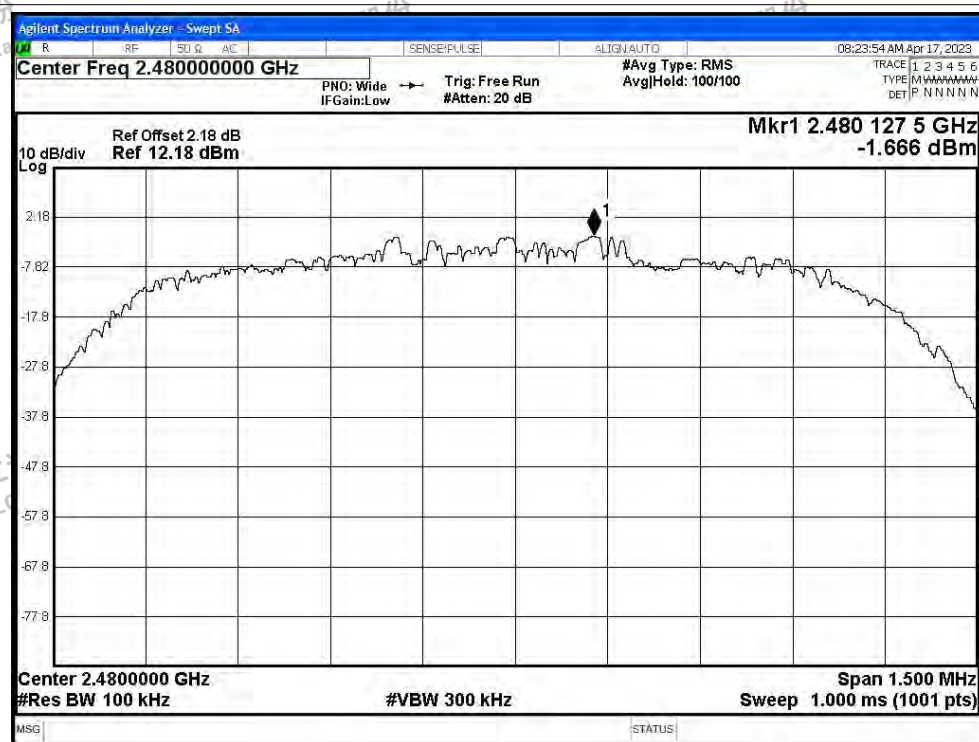
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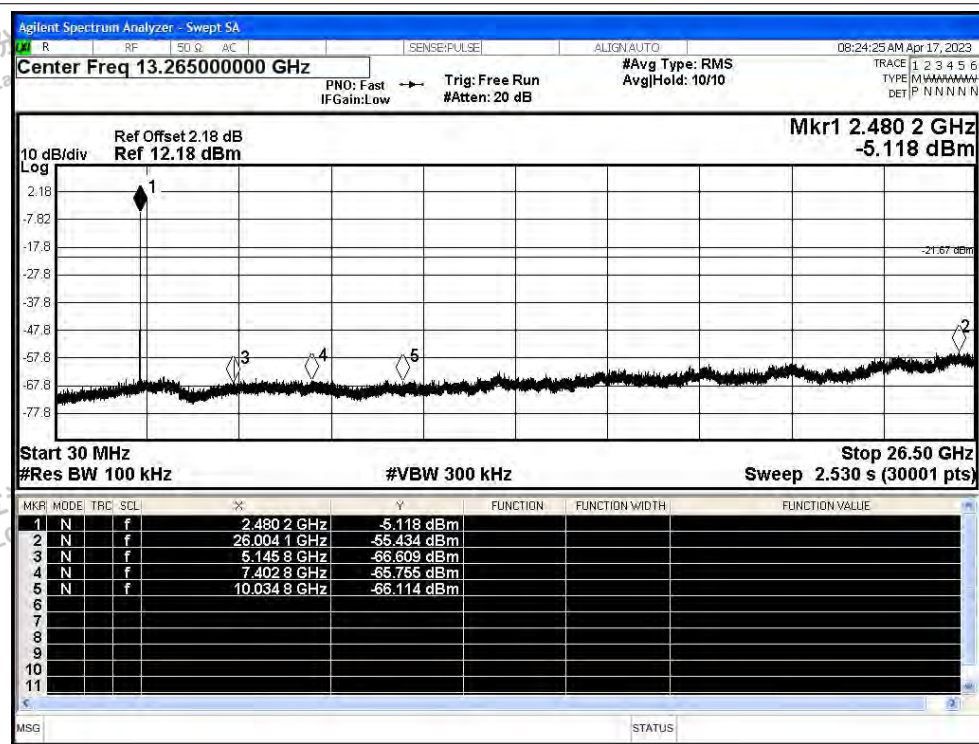
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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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	-51.08	2	46.18	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.93	2	39.33	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2371.92	-47.42	2	49.84	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.896	-57.48	2	39.78	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.41	2	46.85	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.55	2	39.71	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.86	2	48.4	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.79	2	41.47	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2493.64	-46.94	2	50.32	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.79	2	41.47	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.89	2	46.37	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.09	2	40.17	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.74	2	45.52	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.97	2	39.29	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2314.416	-47.3	2	49.96	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2386.224	-57.43	2	39.83	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.55	2	46.71	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.54	2	39.72	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.35	2	46.91	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.59	2	41.67	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2499.88	-46.06	2	51.2	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.59	2	41.67	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.72	2	47.54	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.25	2	40.01	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.78	2	46.48	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.9	2	39.36	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2363.184	-46.95	2	50.31	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2385.072	-57.38	2	39.88	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.81	2	45.45	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.63	2	39.63	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-51.05	2	46.21	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.54	2	41.72	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.736	-47.1	2	50.16	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.54	2	41.72	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.44	2	46.82	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.21	2	40.05	Average	54	Pass



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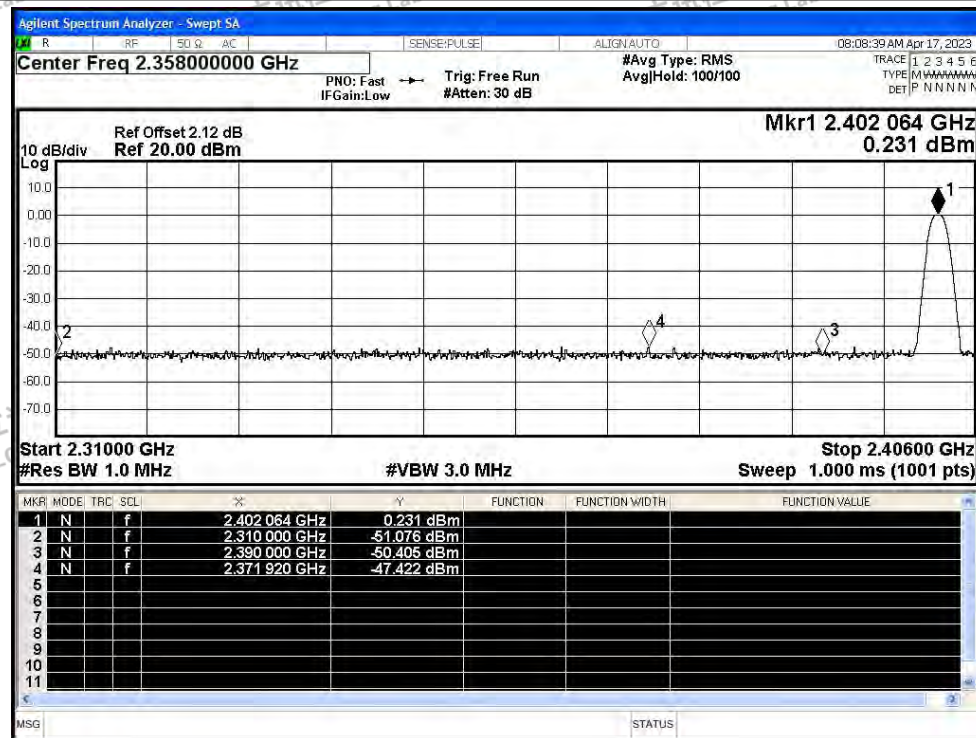
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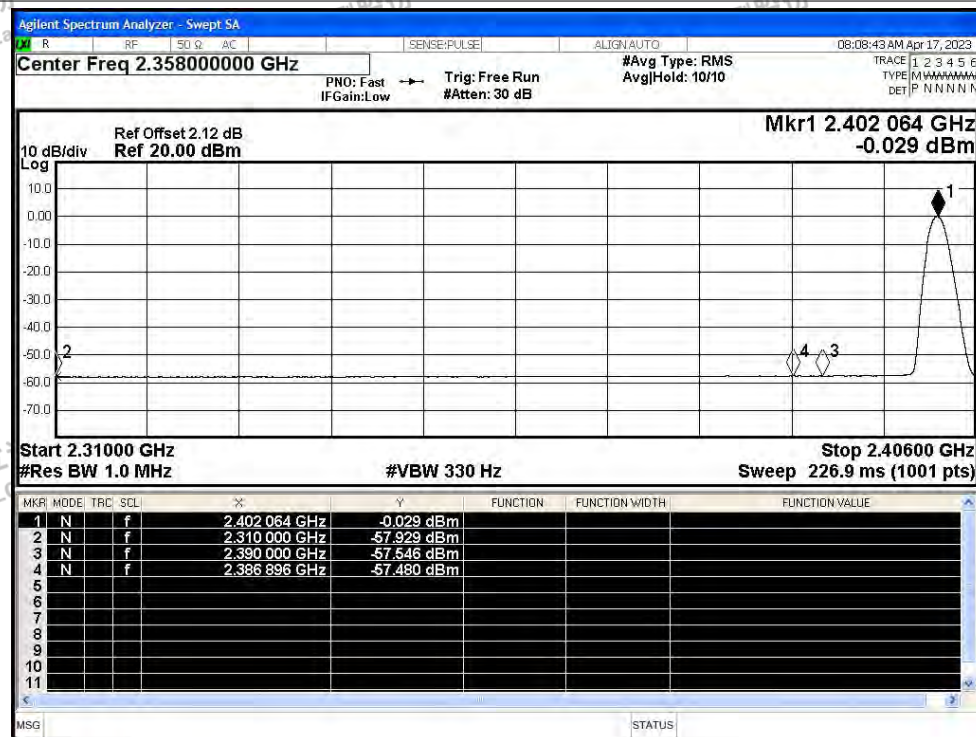


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

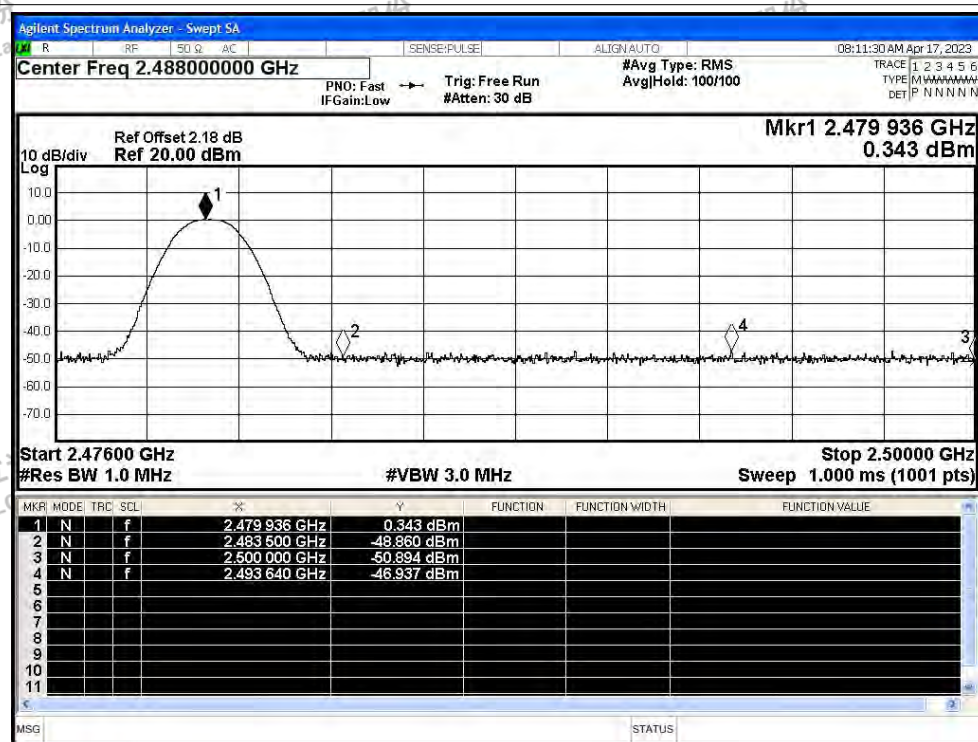
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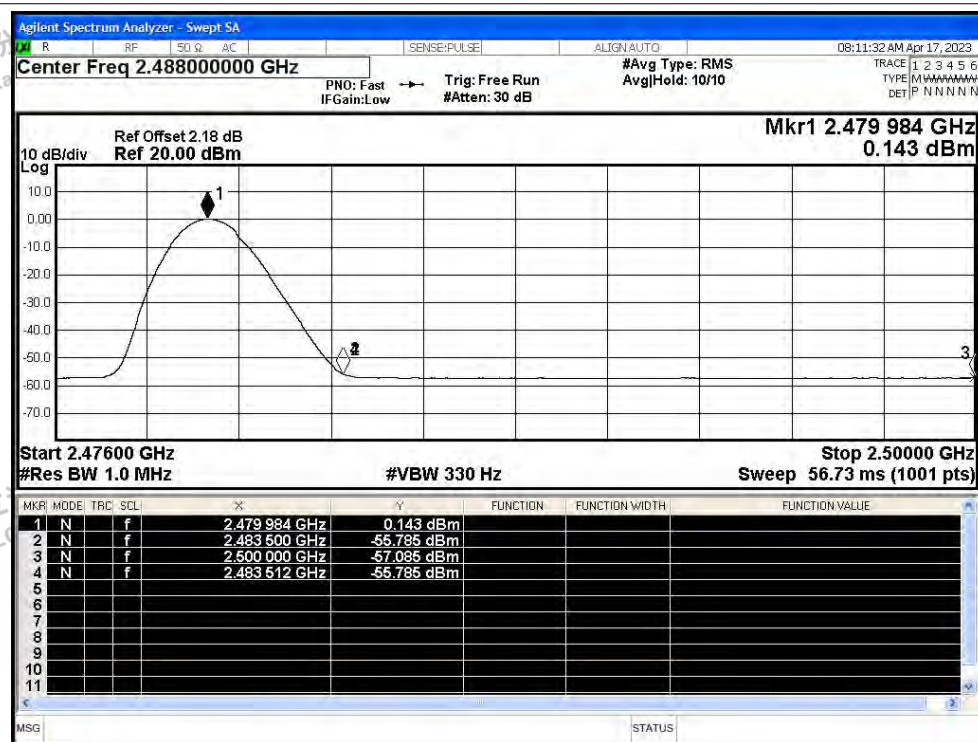
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

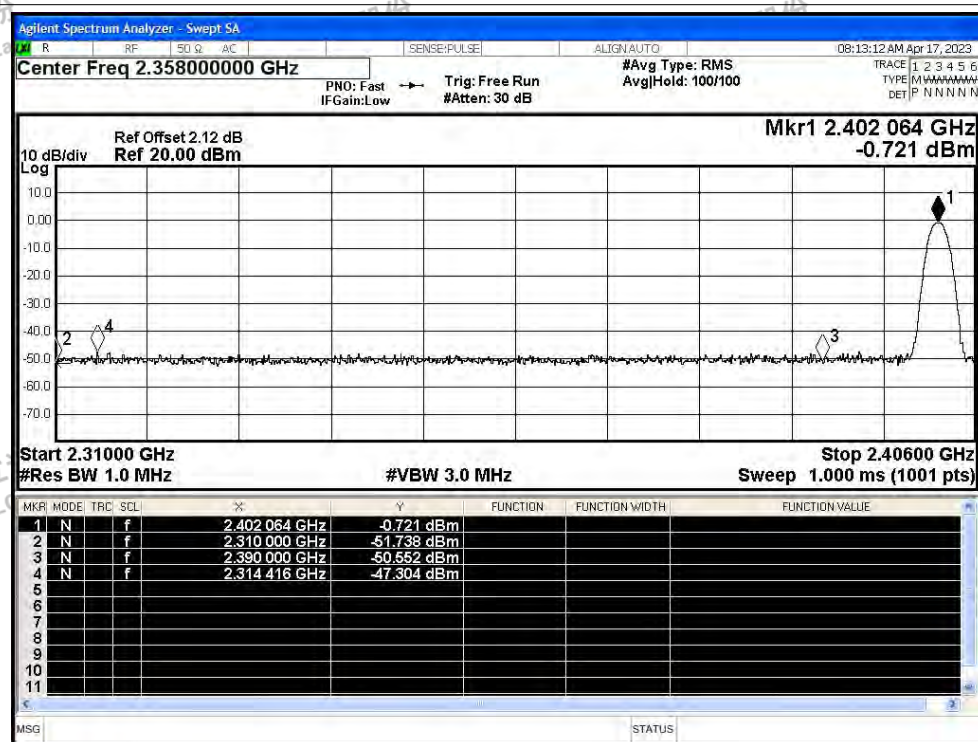
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

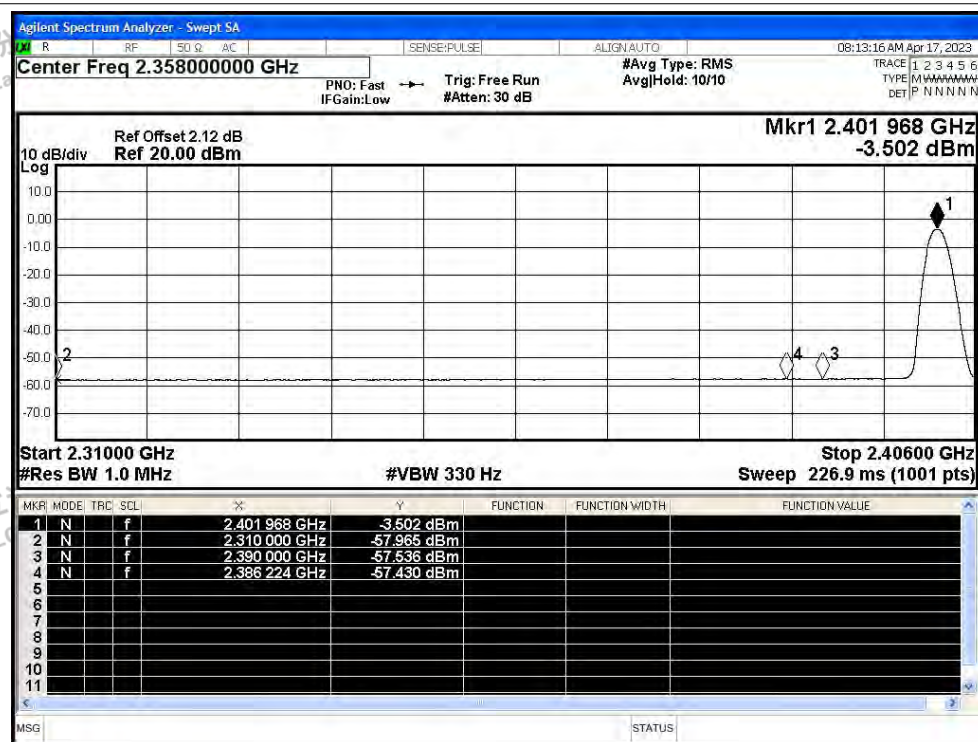
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

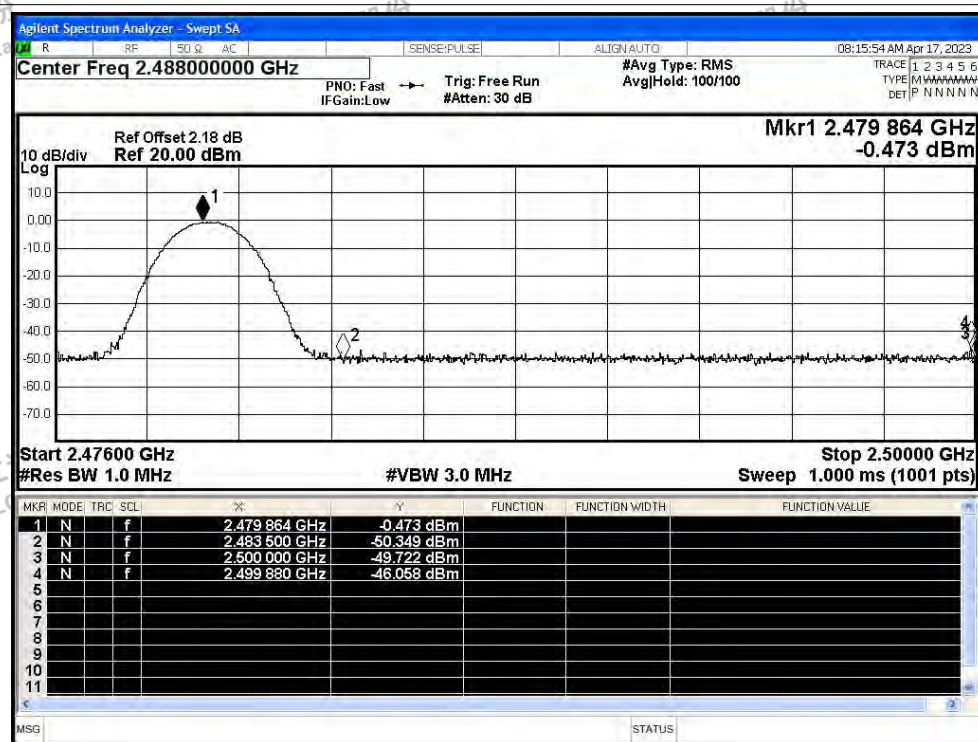
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

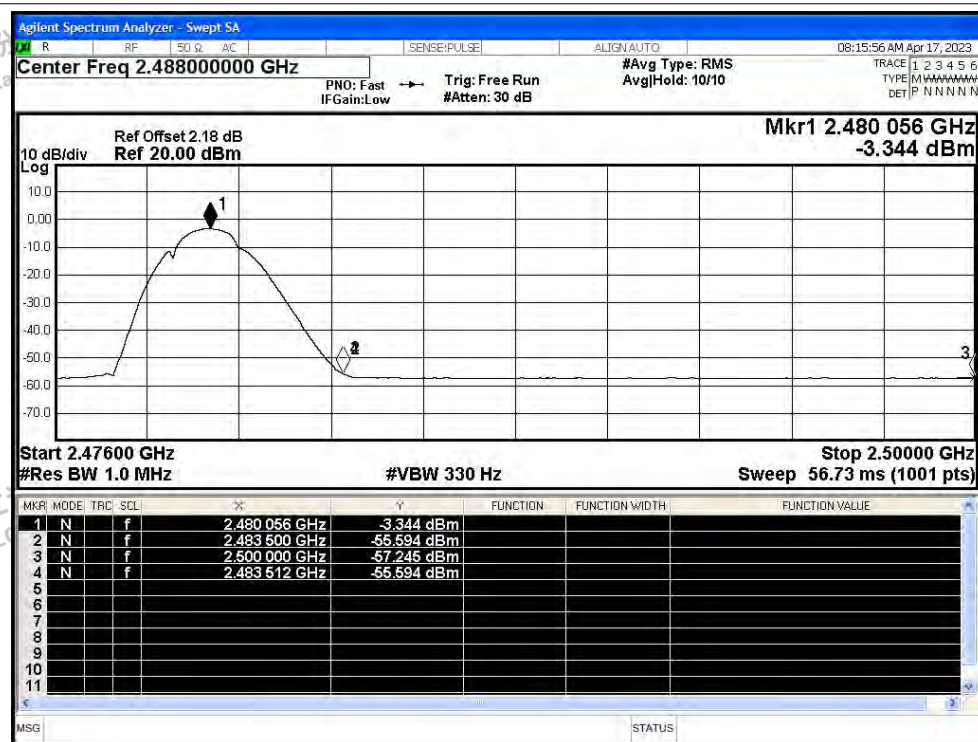
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

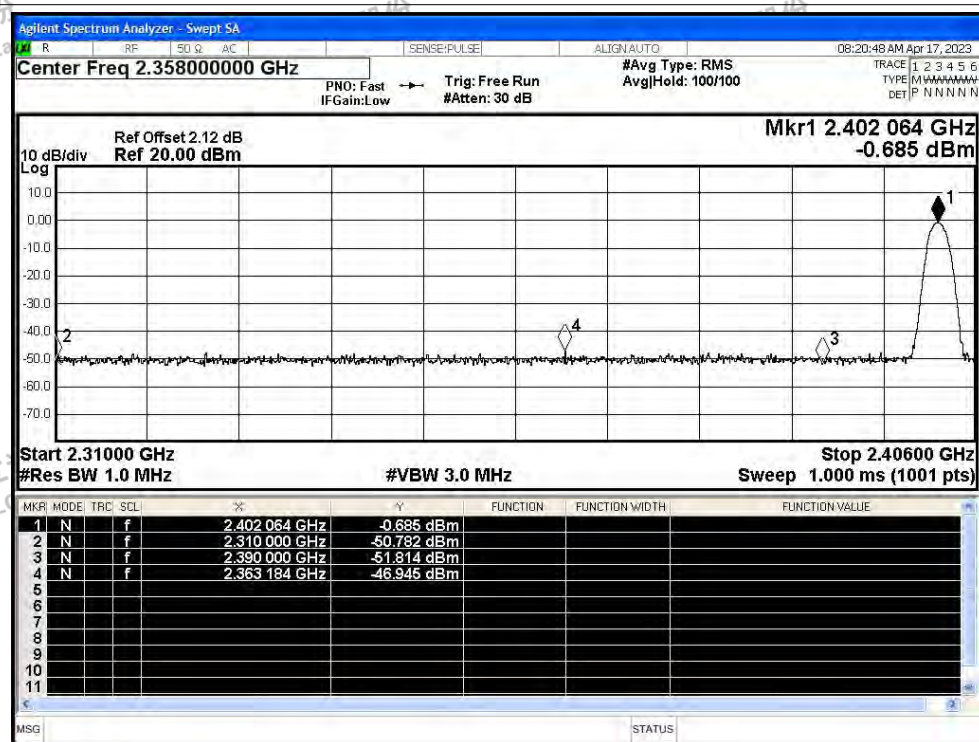
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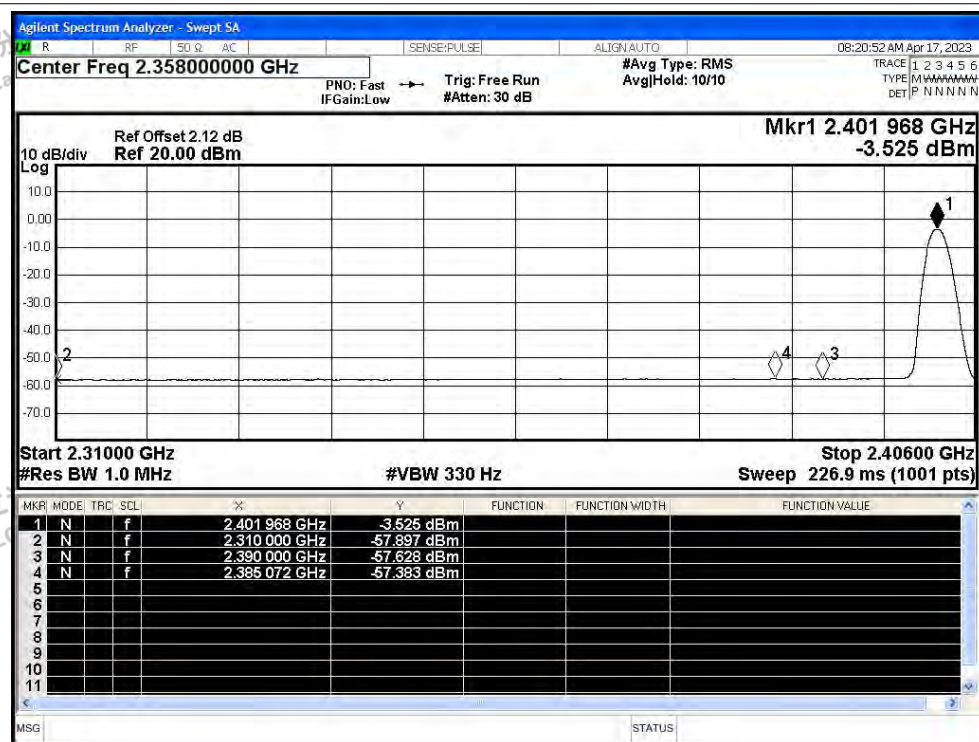
Scan code to check authenticity



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



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



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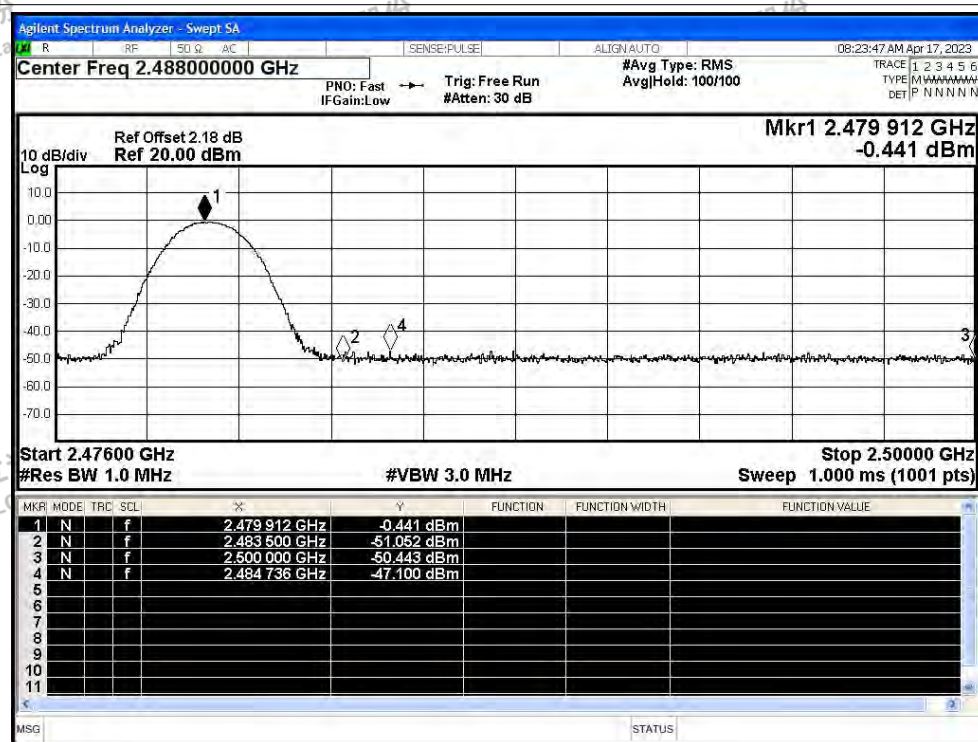
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

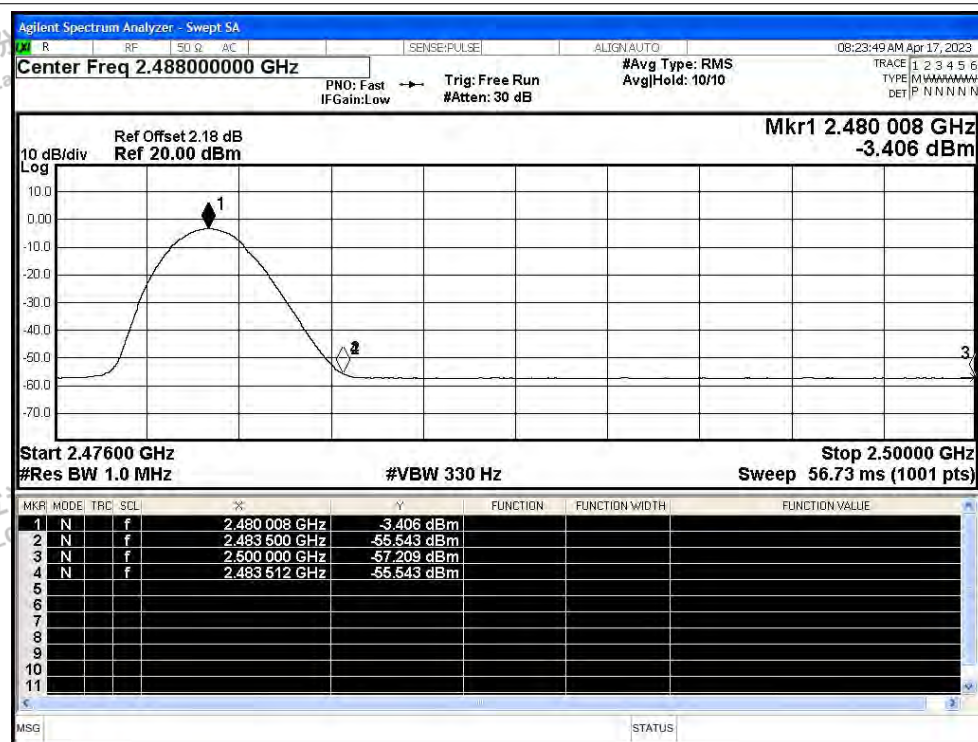
Scan code to check authenticity



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



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



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