



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth audio module

Test Model: AudioB I2S

Environmental Conditions

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



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A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.954	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.936	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.951	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.287	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.28	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.286	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.293	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.293	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.3	N/A	Pass



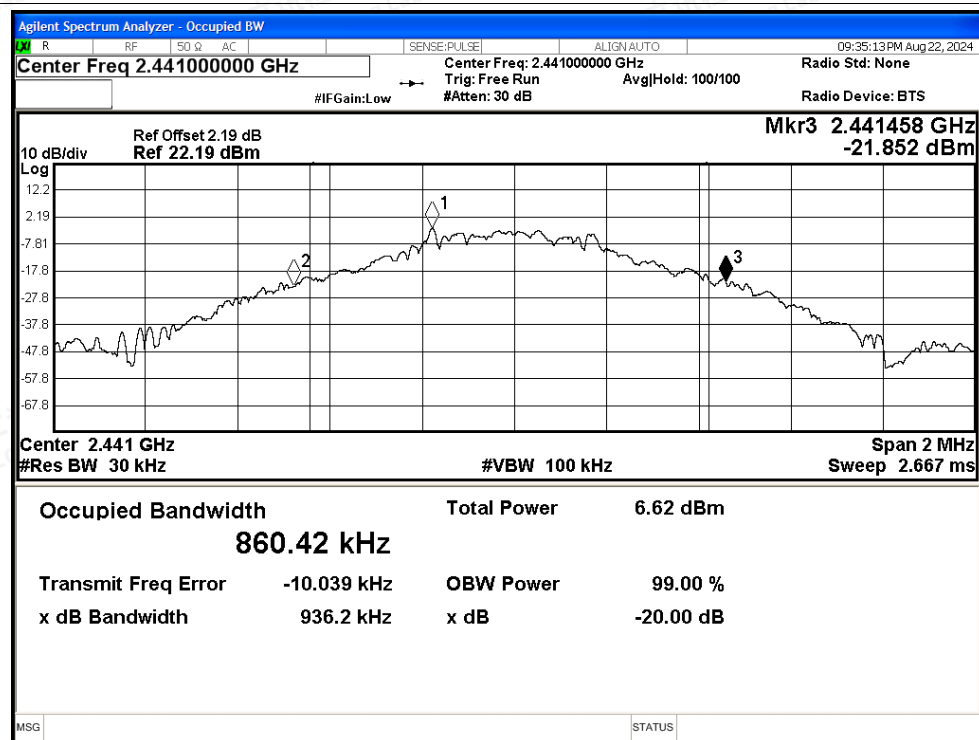


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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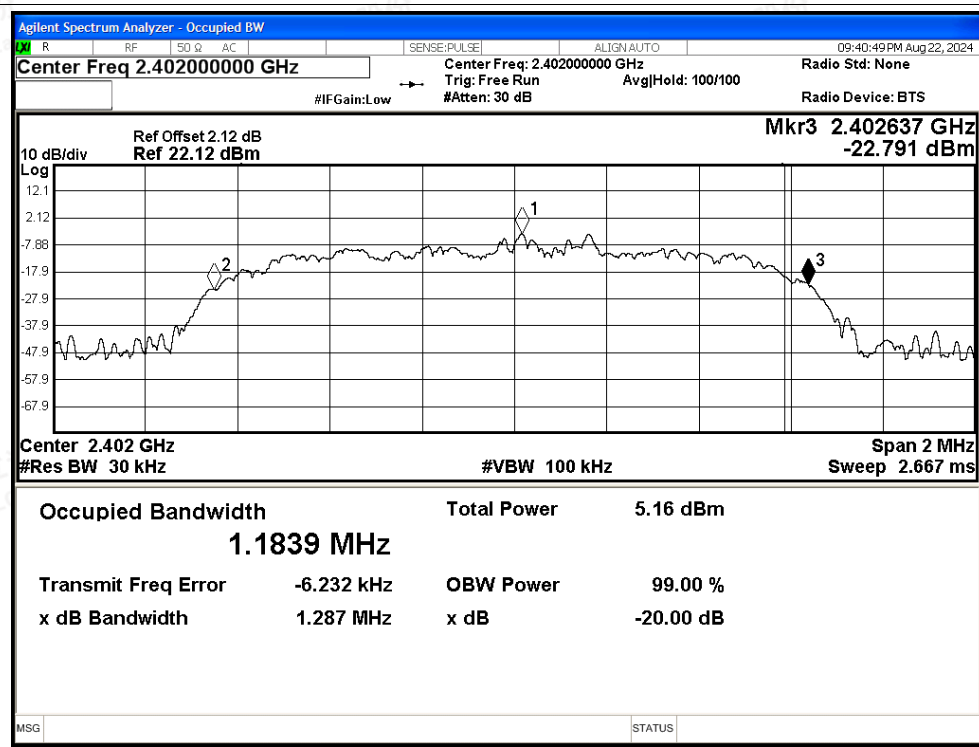
Scan code to check authenticity



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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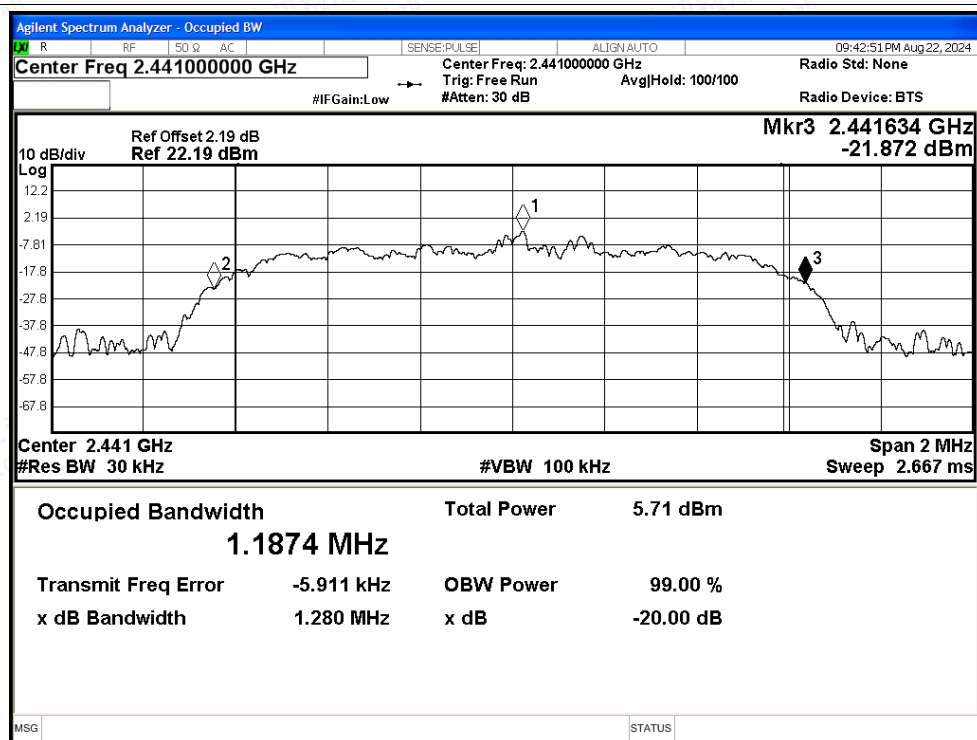
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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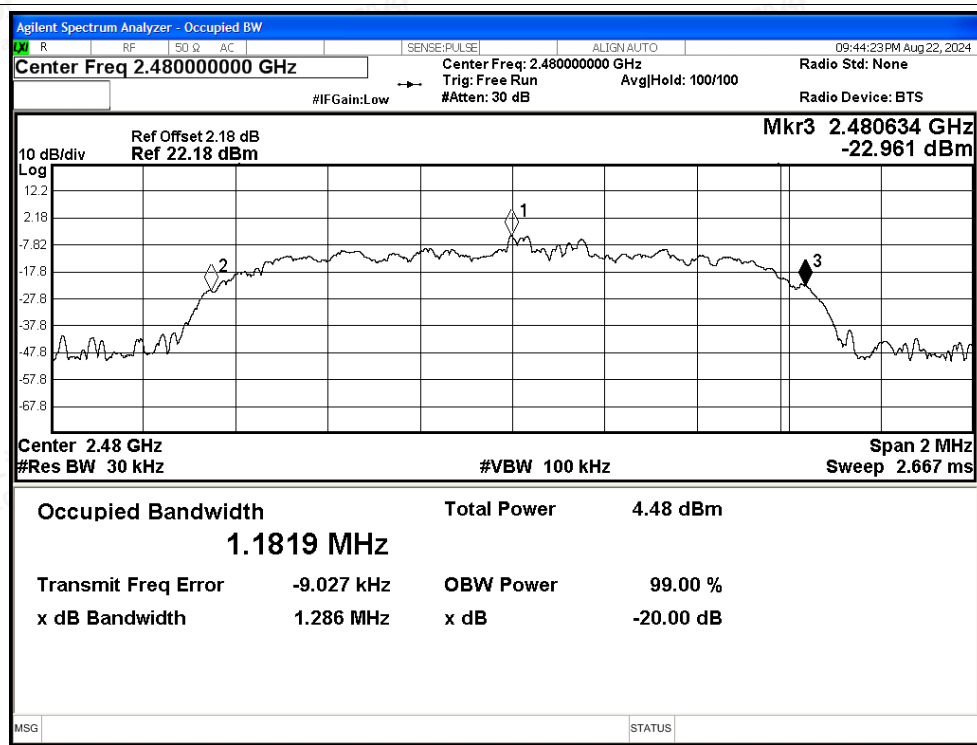
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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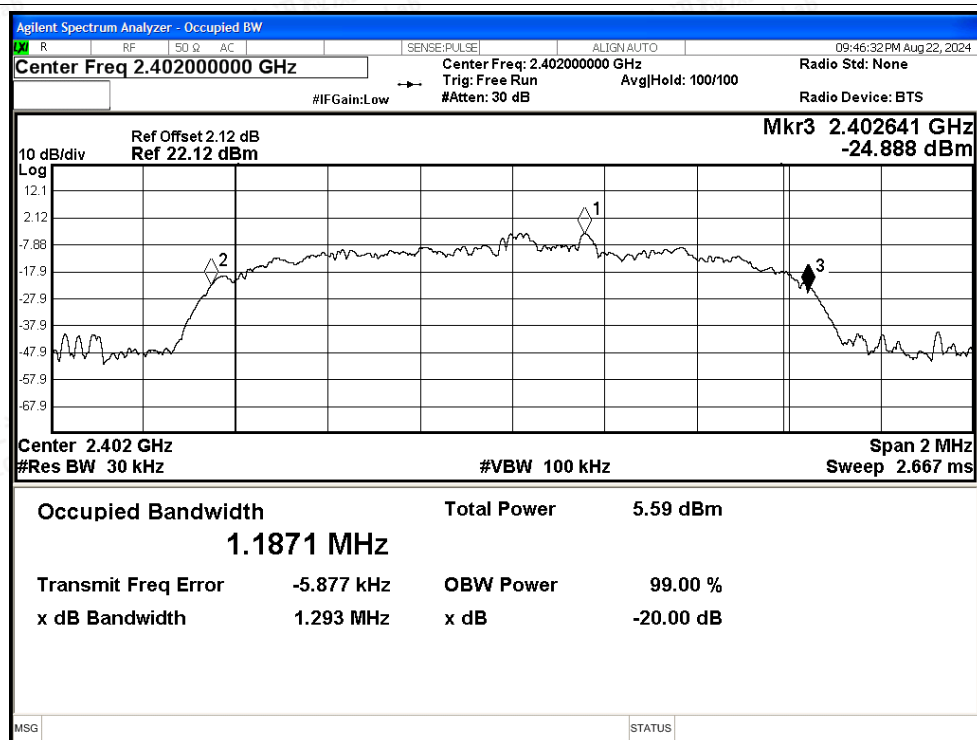
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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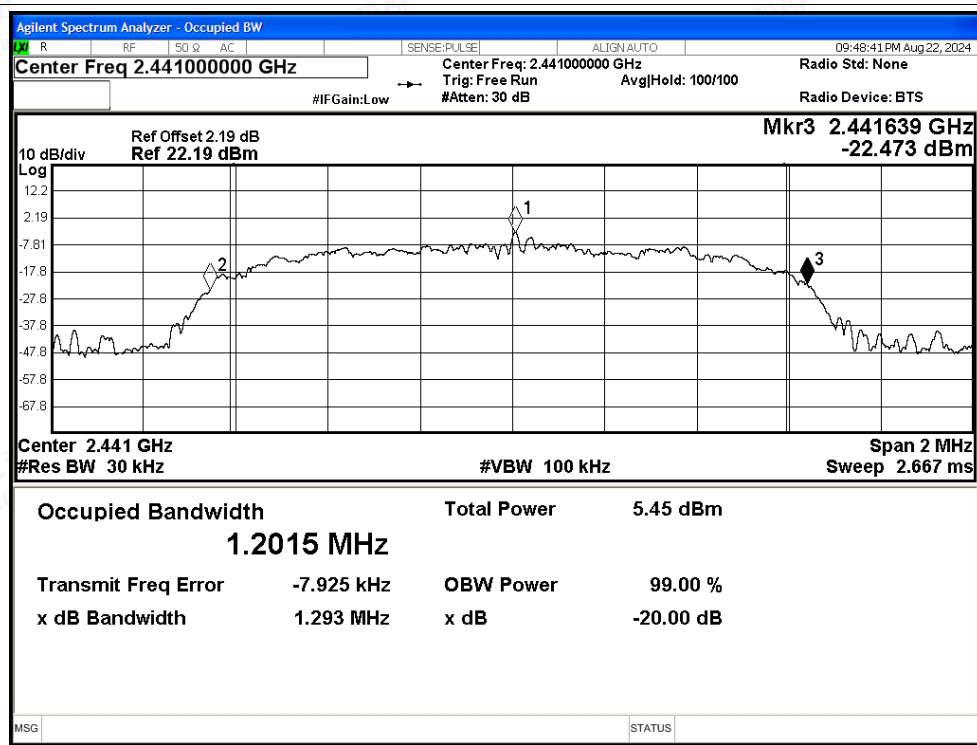
Scan code to check authenticity



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

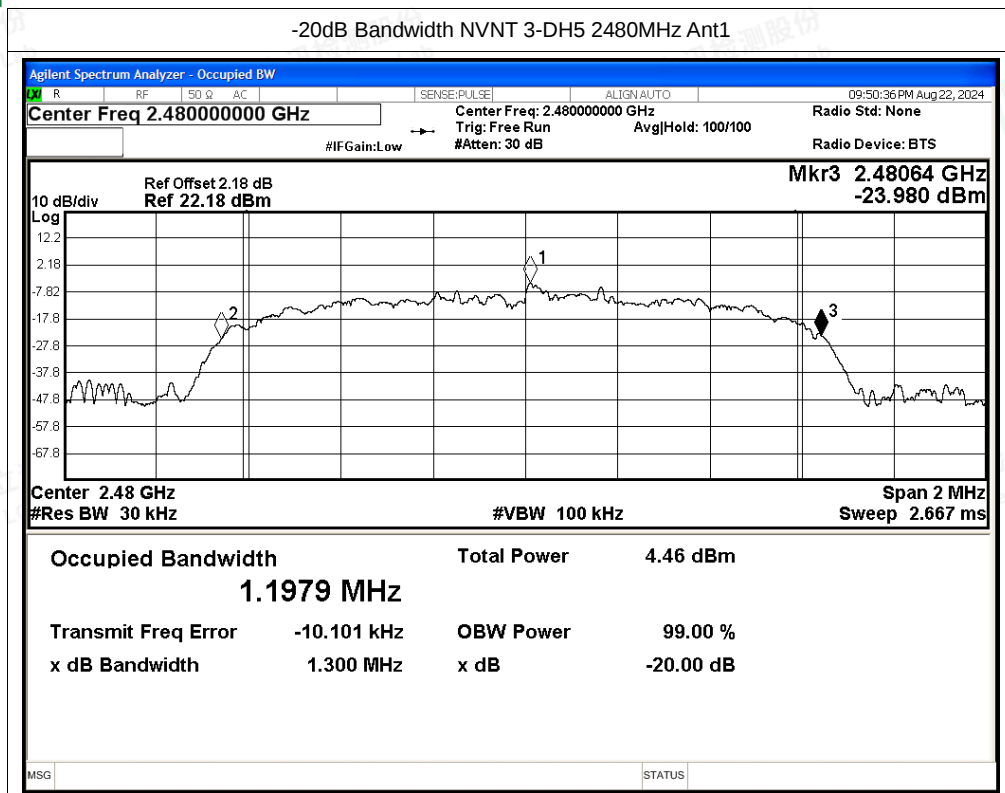


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.28	21	Pass
NVNT	1-DH5	2441	Ant1	0.1	21	Pass
NVNT	1-DH5	2480	Ant1	-0.65	21	Pass
NVNT	2-DH5	2402	Ant1	0.8	21	Pass
NVNT	2-DH5	2441	Ant1	1.25	21	Pass
NVNT	2-DH5	2480	Ant1	0.02	21	Pass
NVNT	3-DH5	2402	Ant1	0.87	21	Pass
NVNT	3-DH5	2441	Ant1	1.4	21	Pass
NVNT	3-DH5	2480	Ant1	0.15	21	Pass

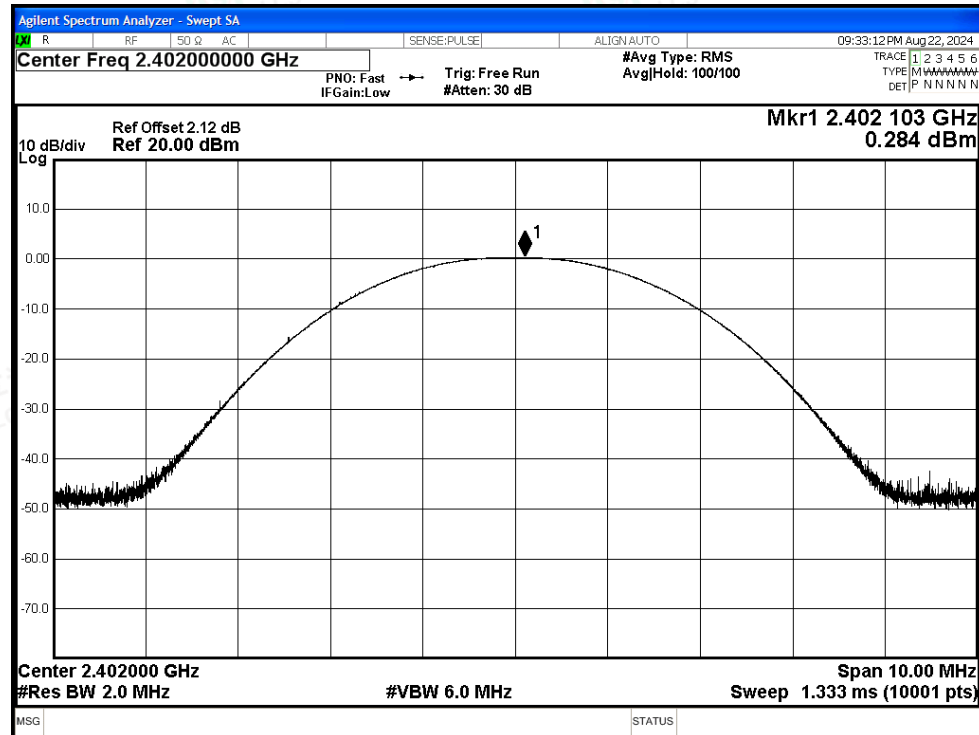


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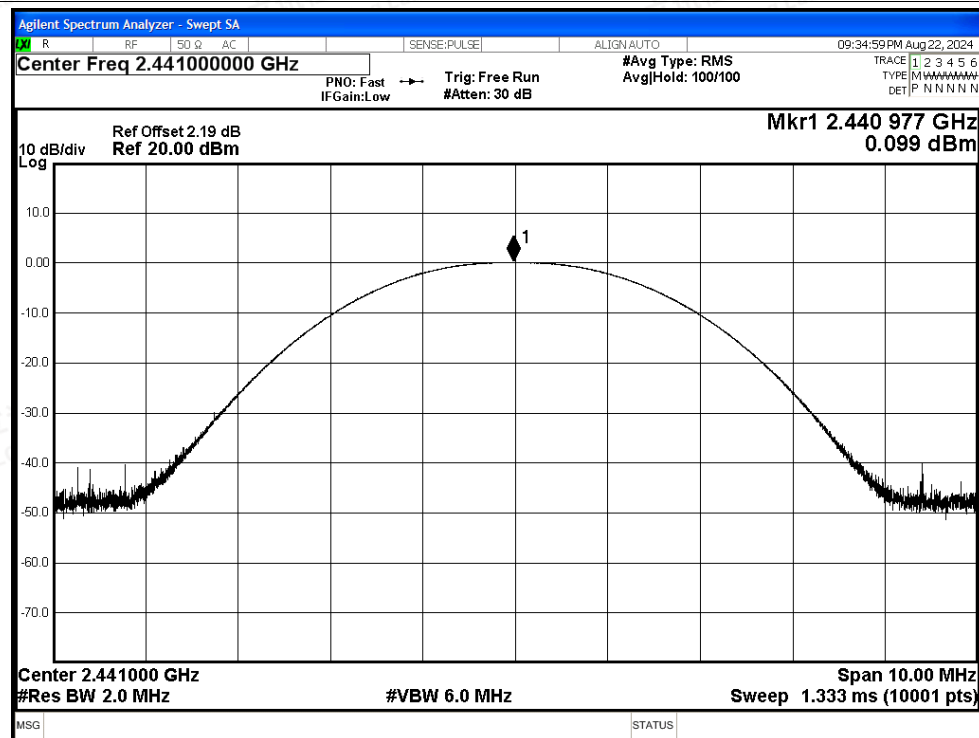


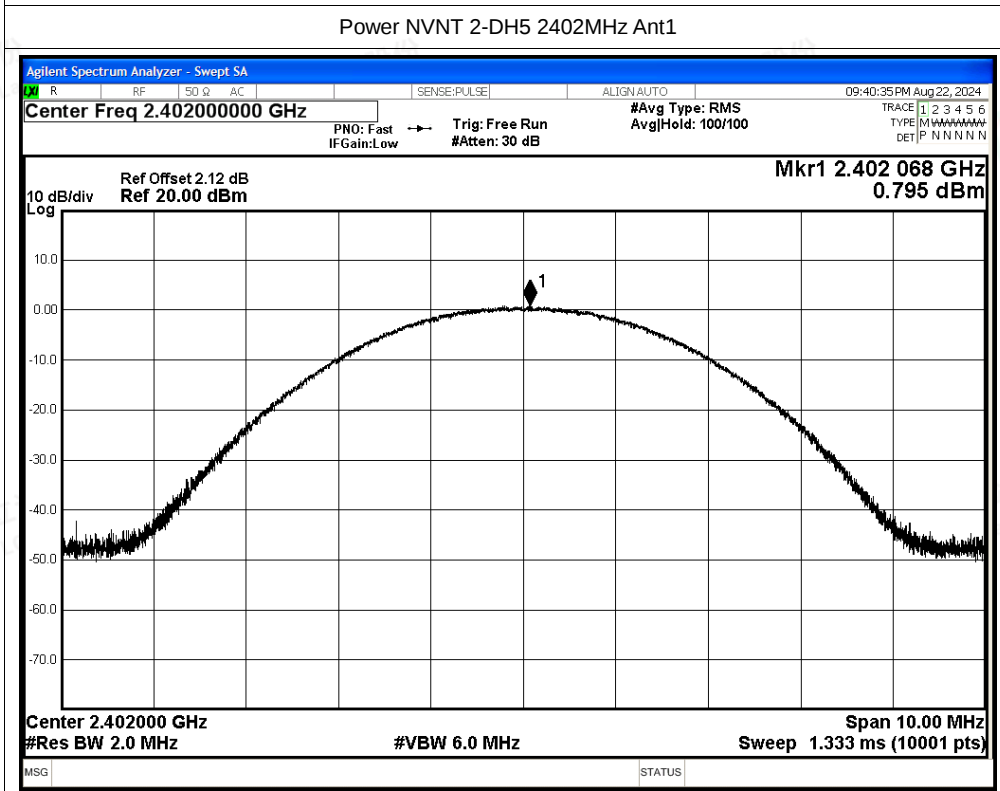
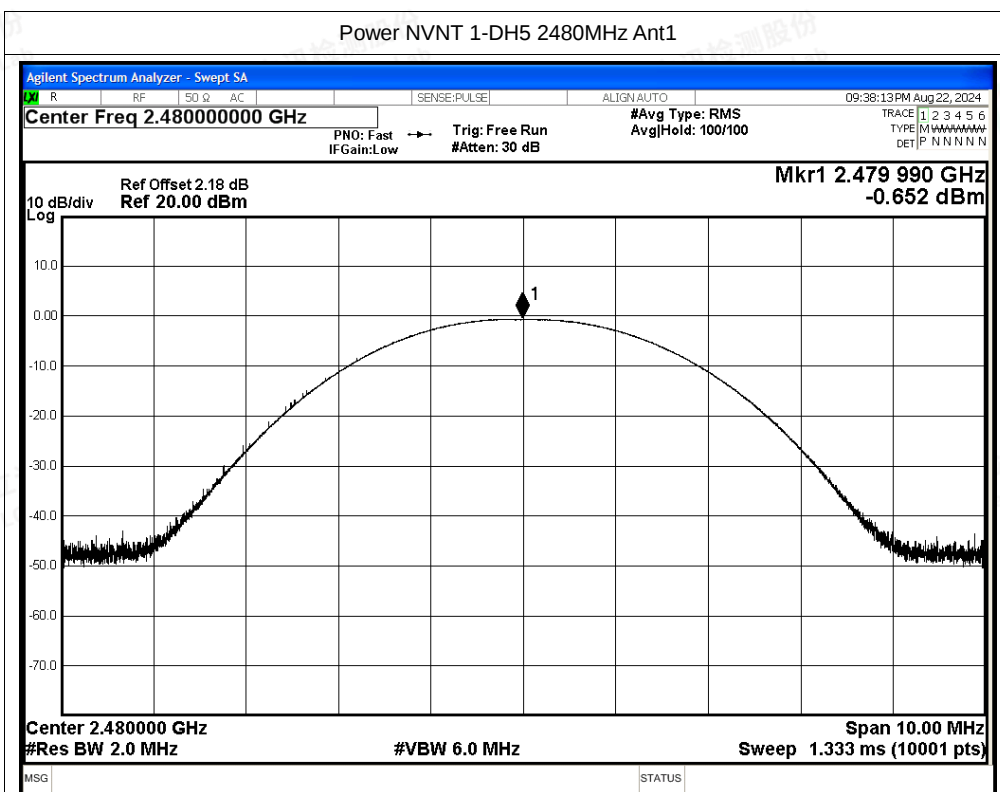
Test Graphs

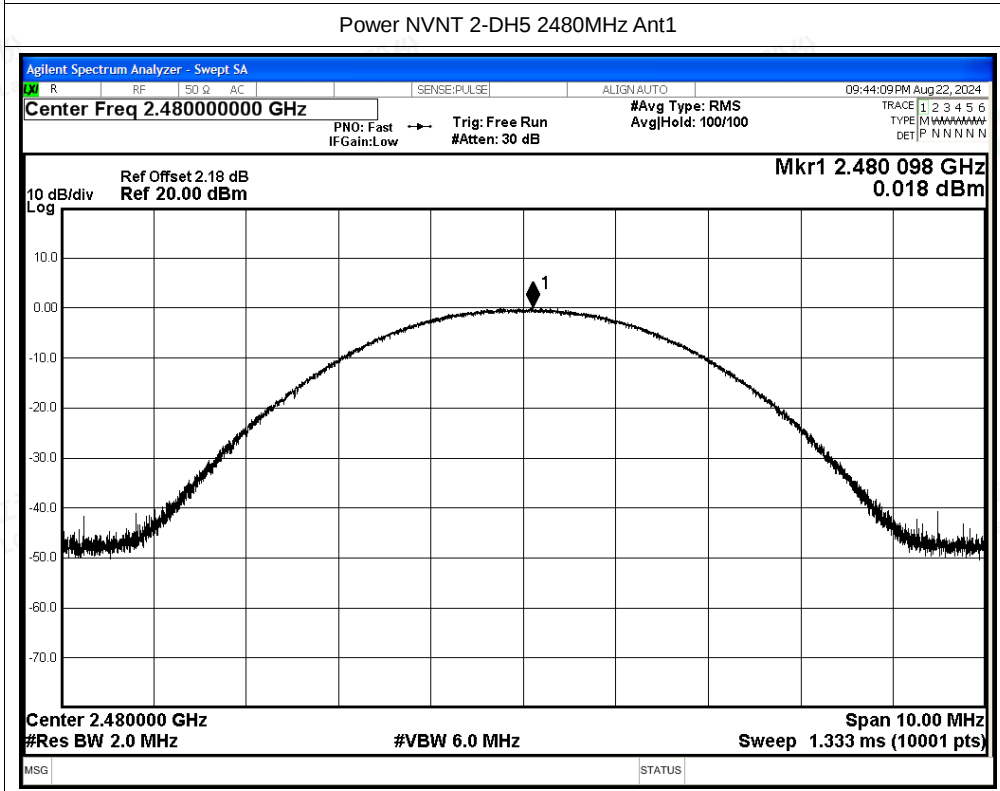
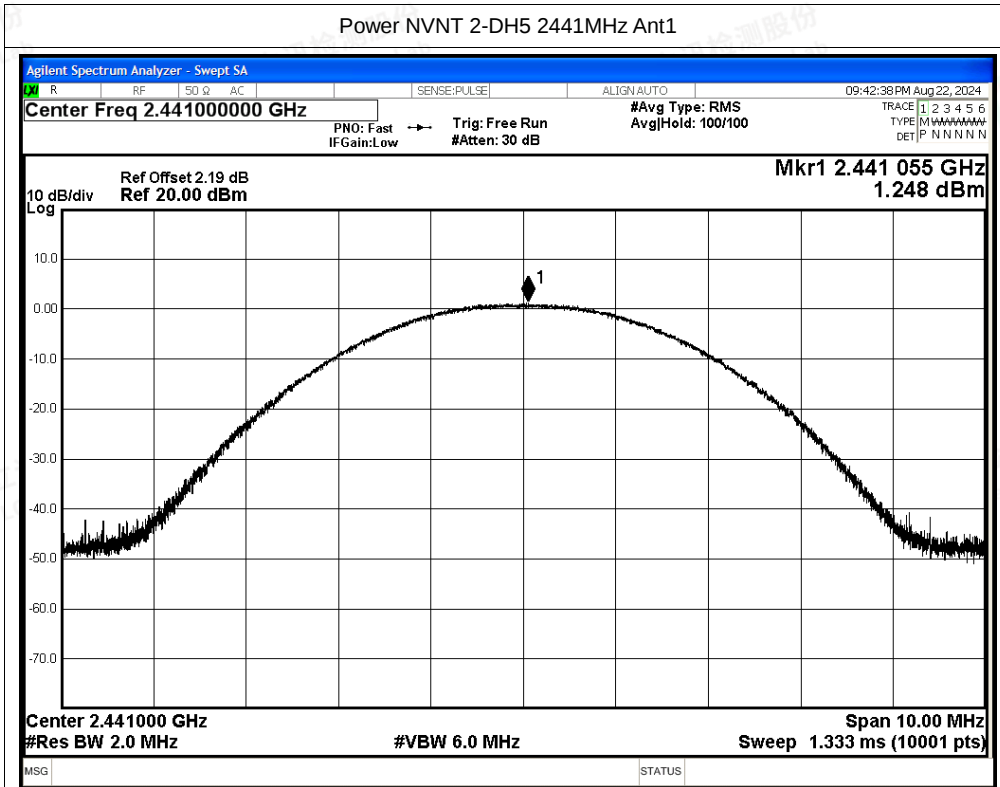
Power NVNT 1-DH5 2402MHz Ant1

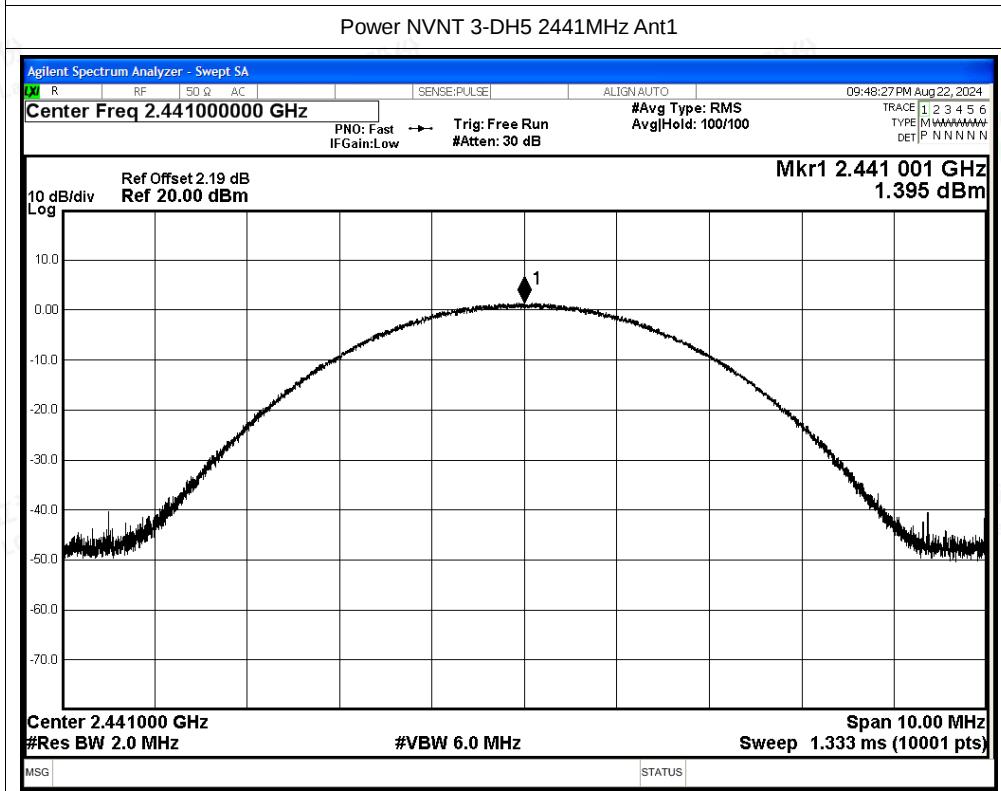
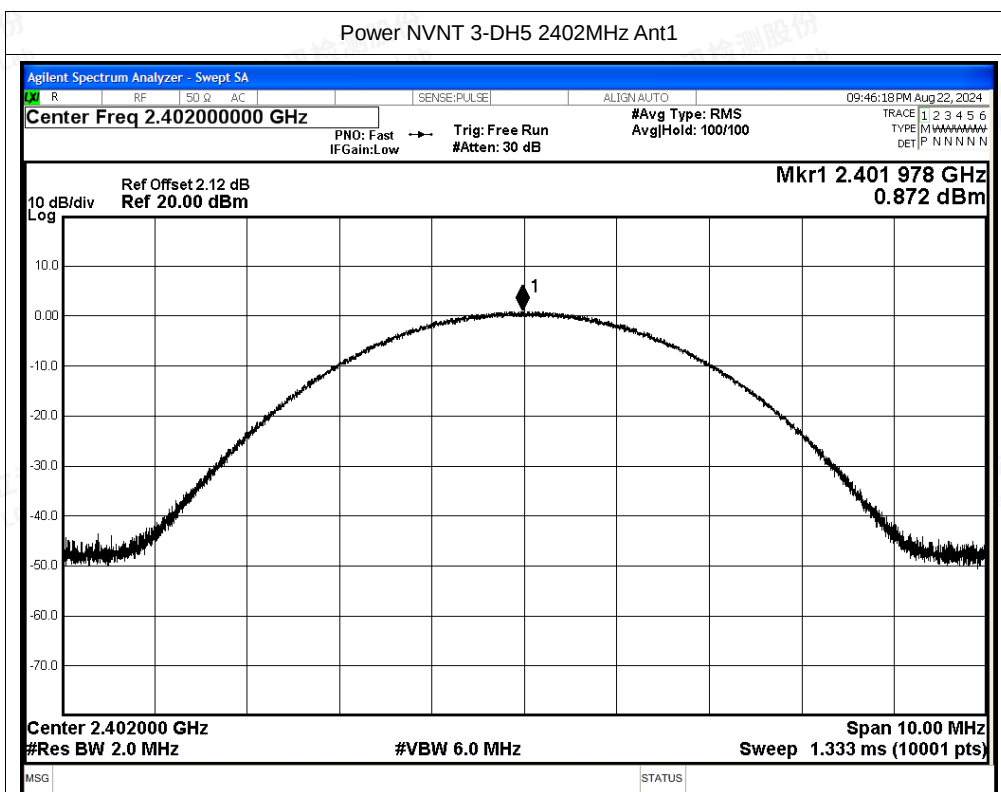


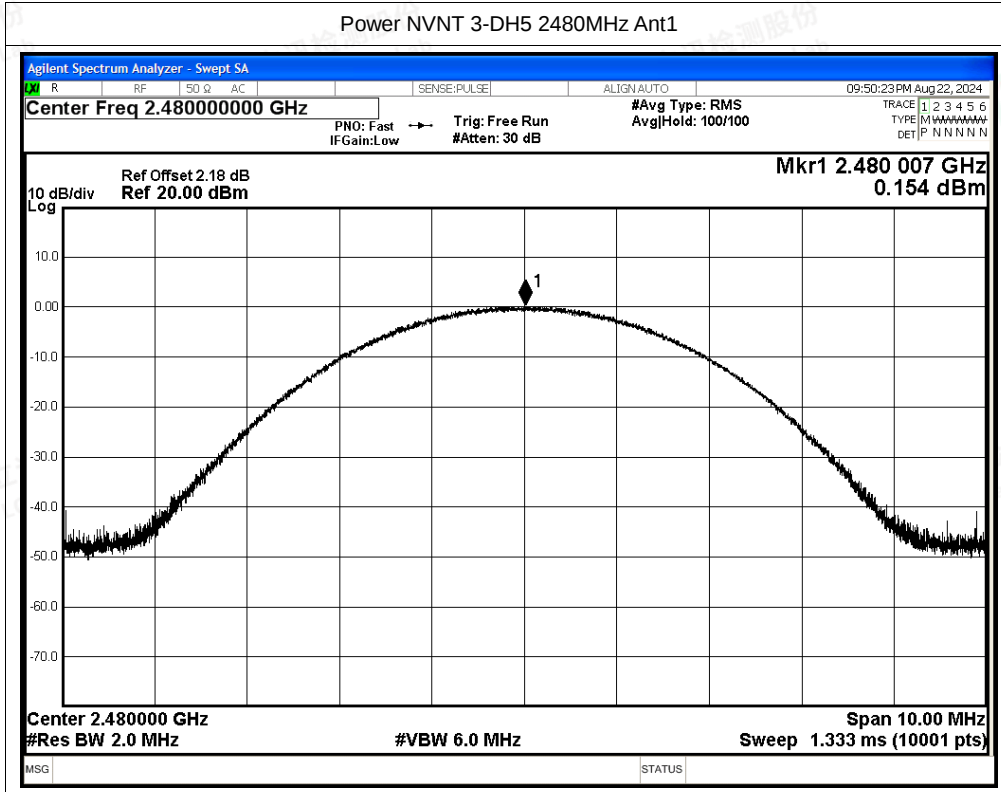
Power NVNT 1-DH5 2441MHz Ant1













A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.834	2402.828	0.994	0.636	Pass
NVNT	2-DH5	Ant1	2402.016	2403	0.984	0.858	Pass
NVNT	3-DH5	Ant1	2402.006	2403.002	0.996	0.867	Pass

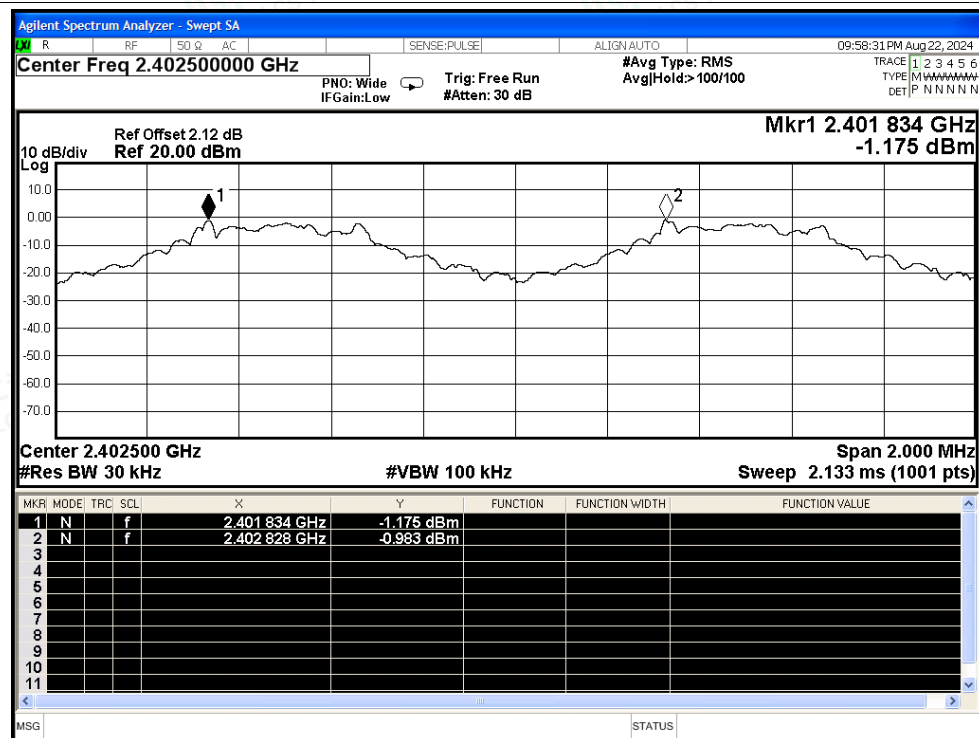


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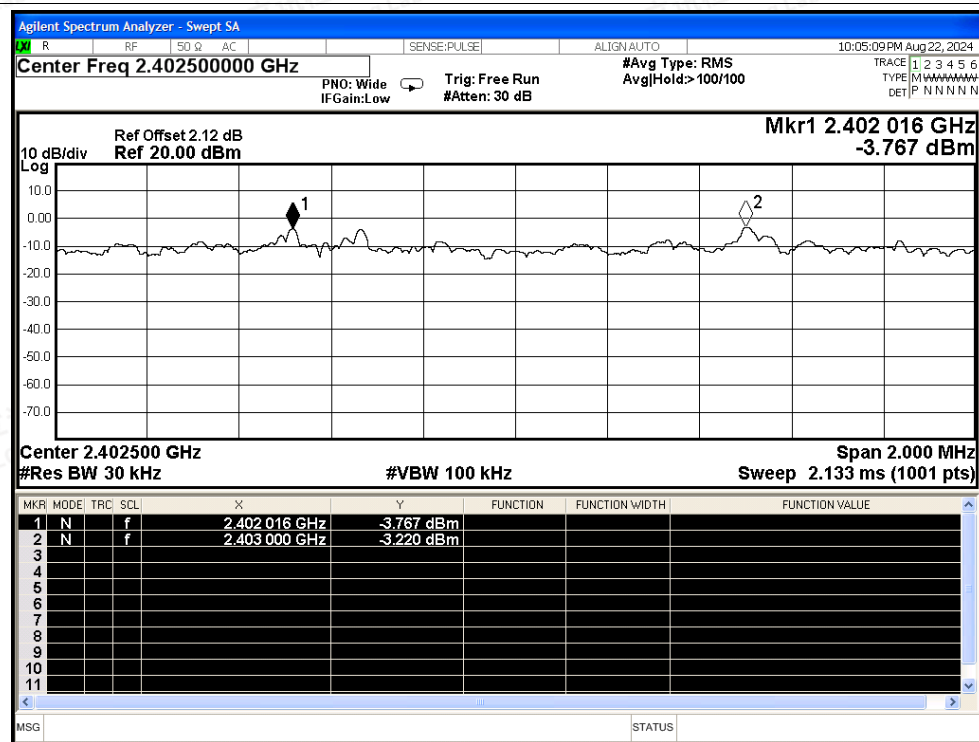


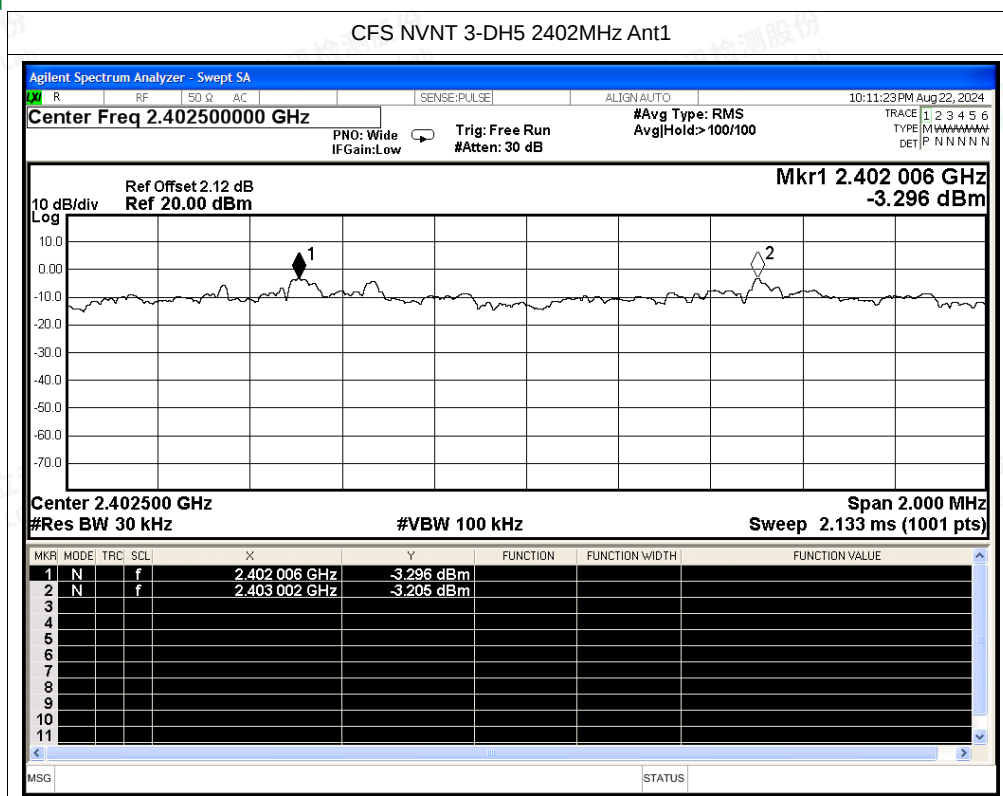
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

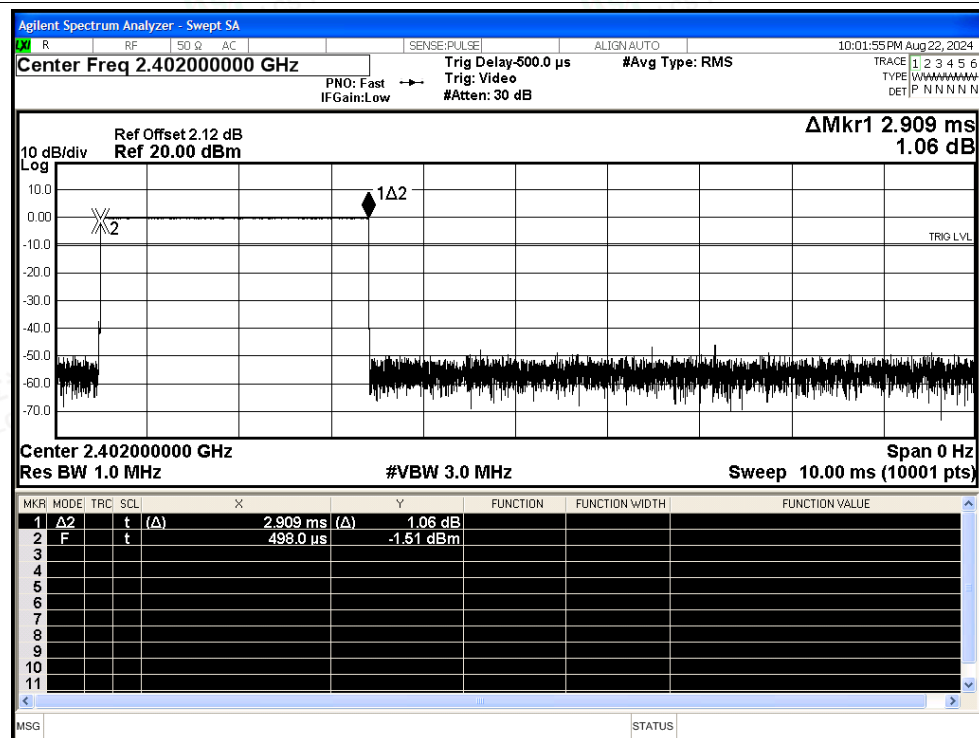
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.909	346.171	119	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	315.882	109	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	301.288	104	31600	400	Pass



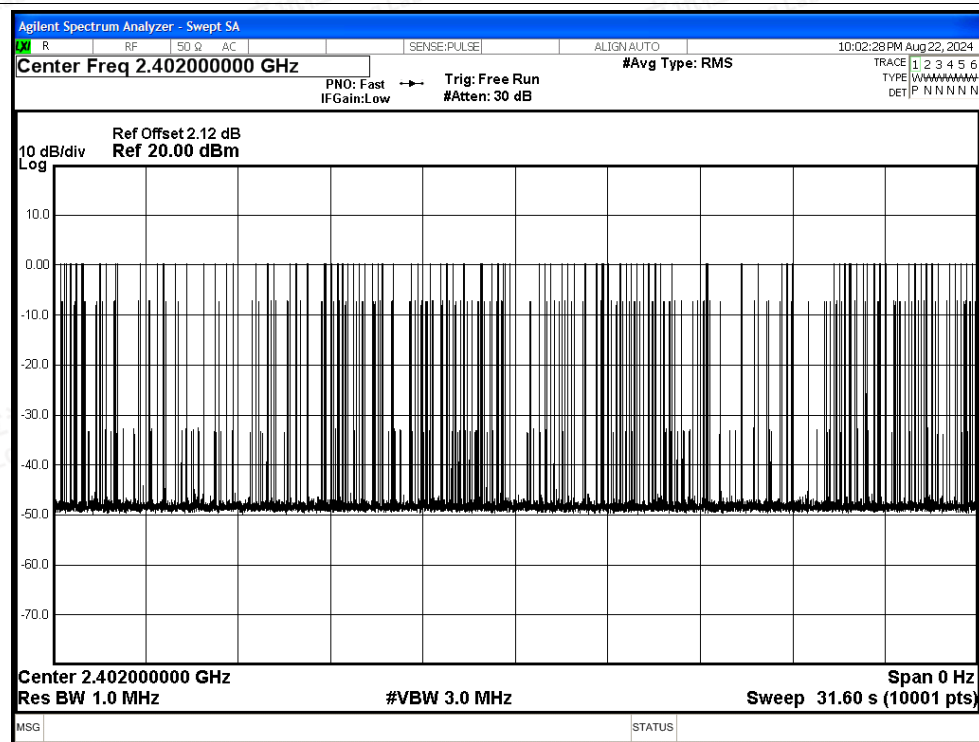


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

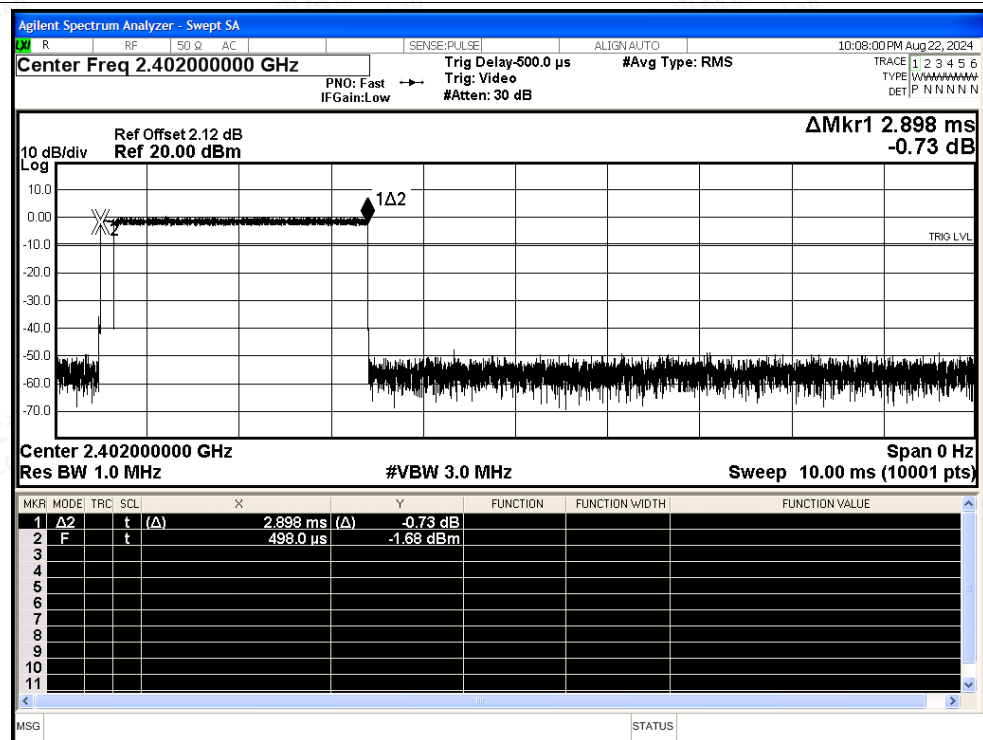


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

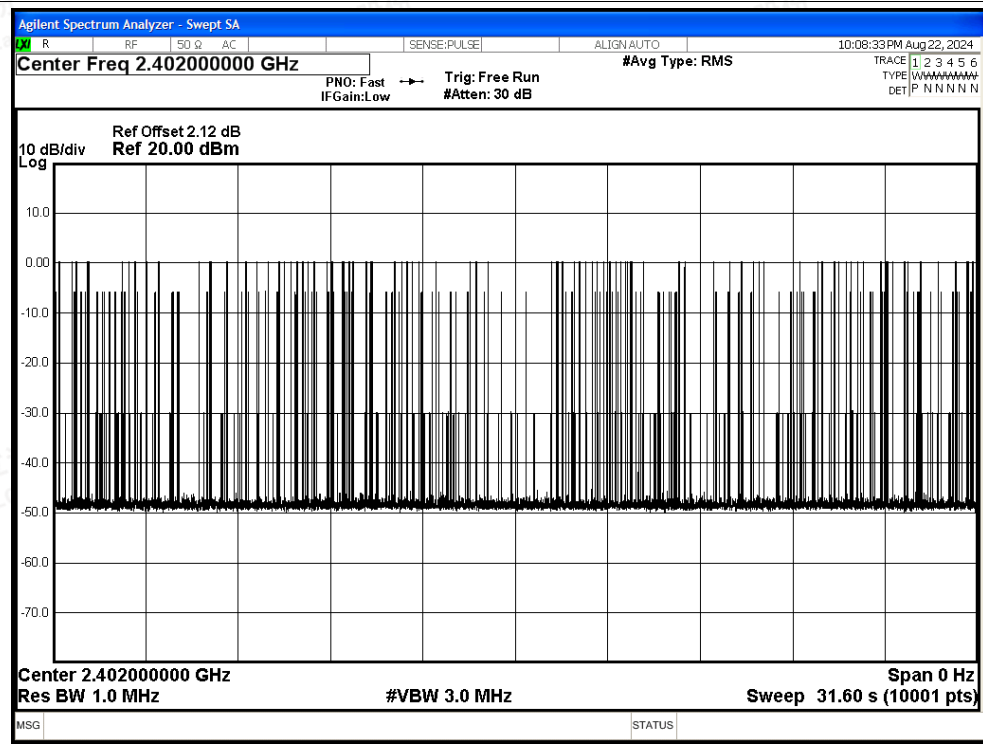




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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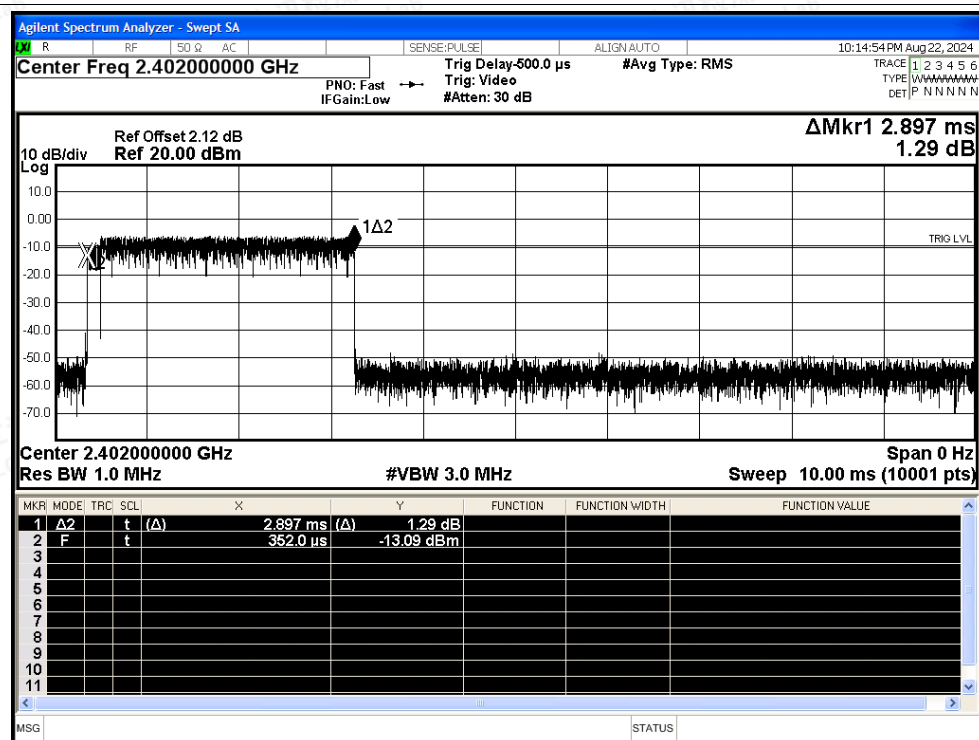
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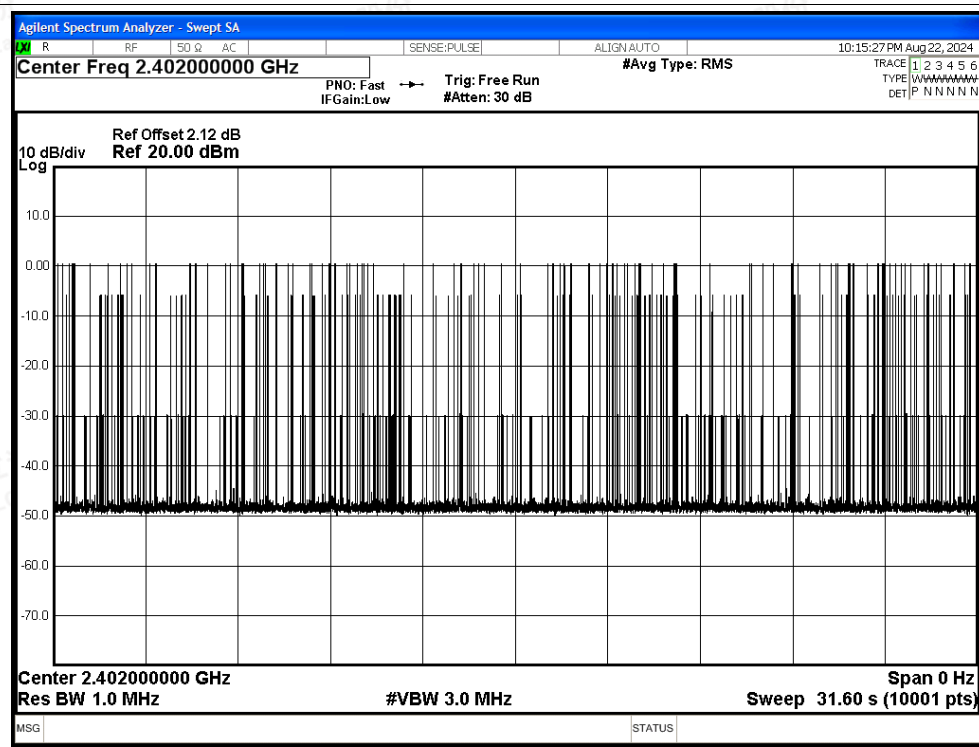
Scan code to check authenticity



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

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

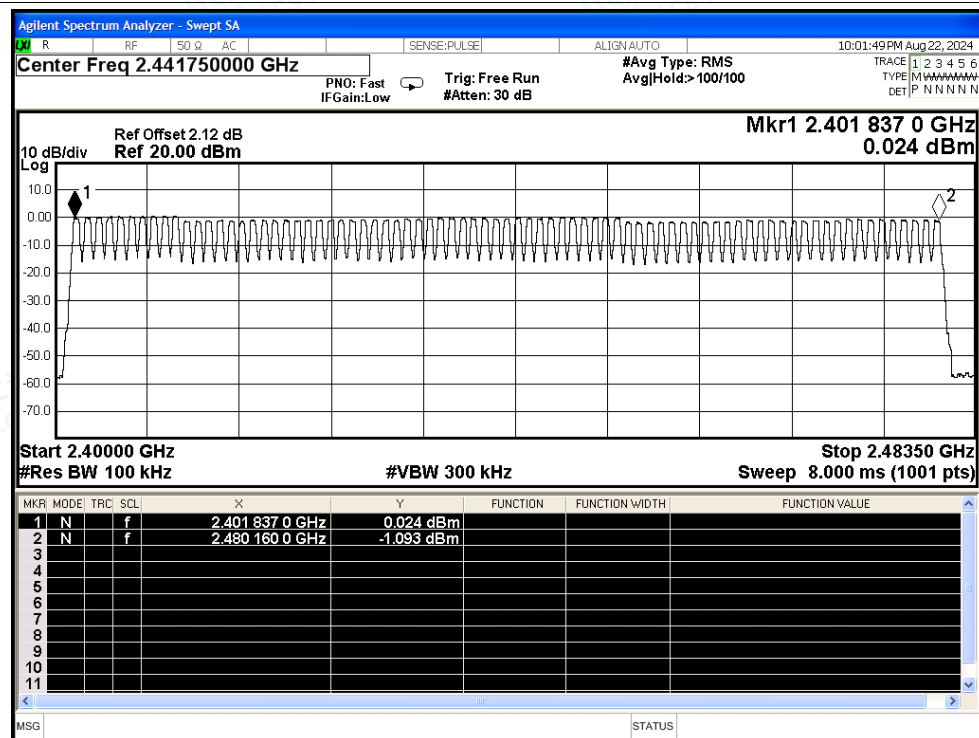


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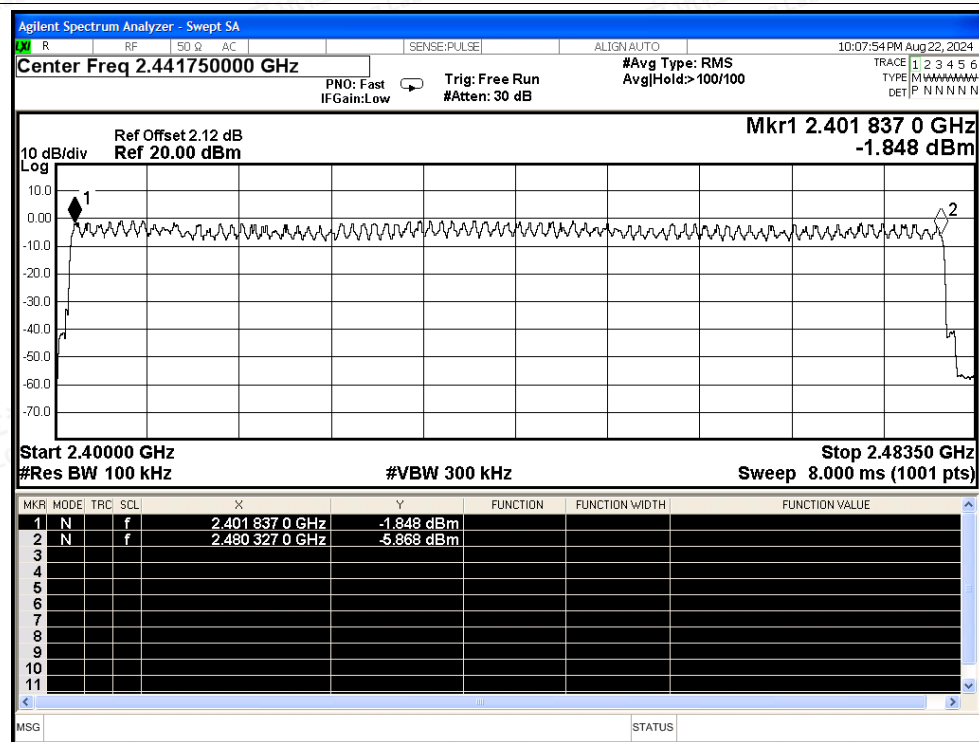


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

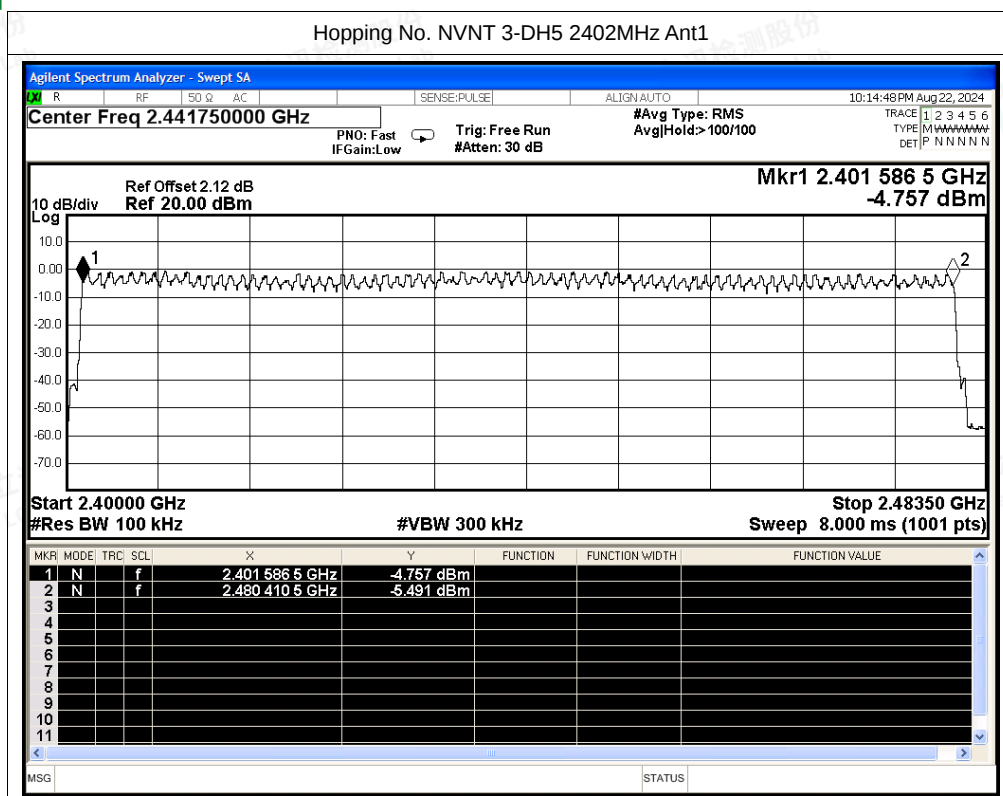


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A.6 Band Edge

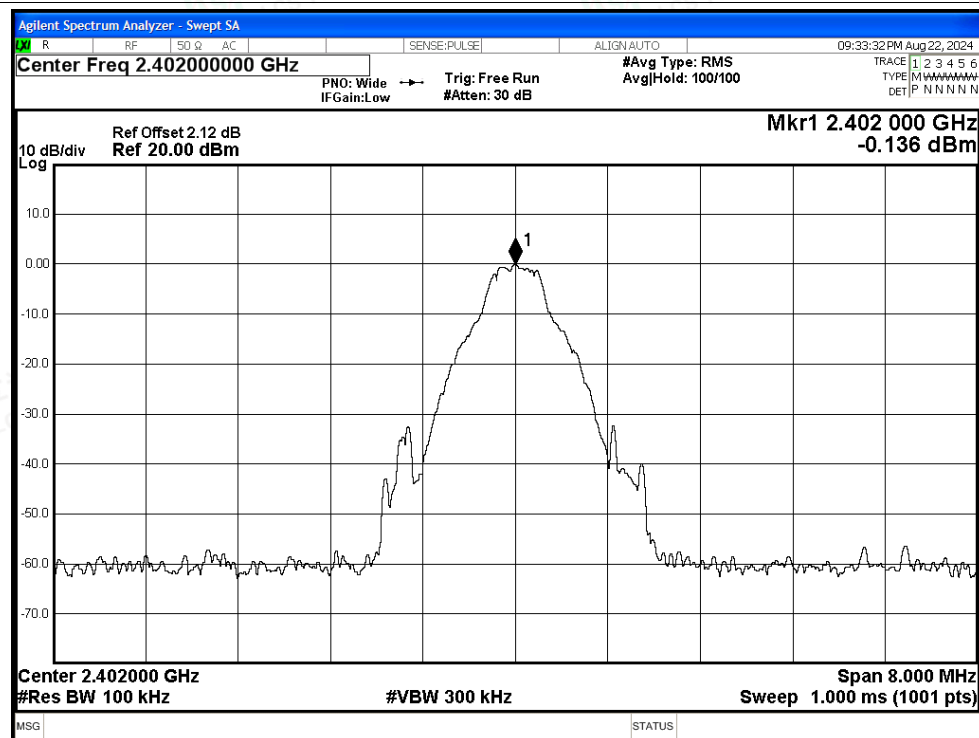
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.97	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.45	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.78	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.33	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.15	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.35	-20	Pass



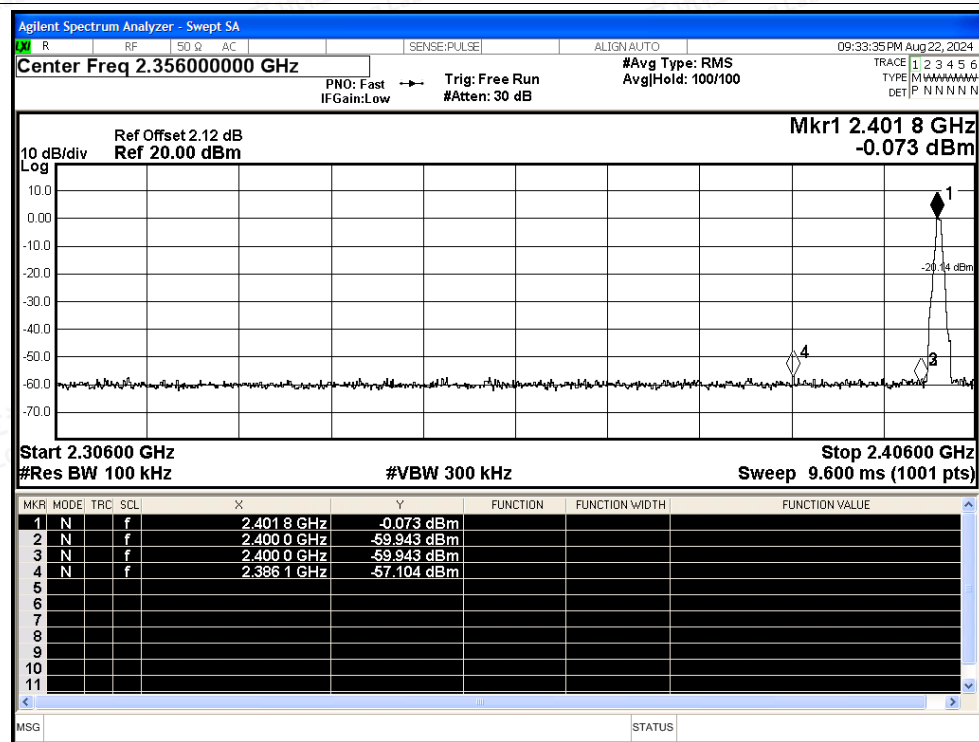


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

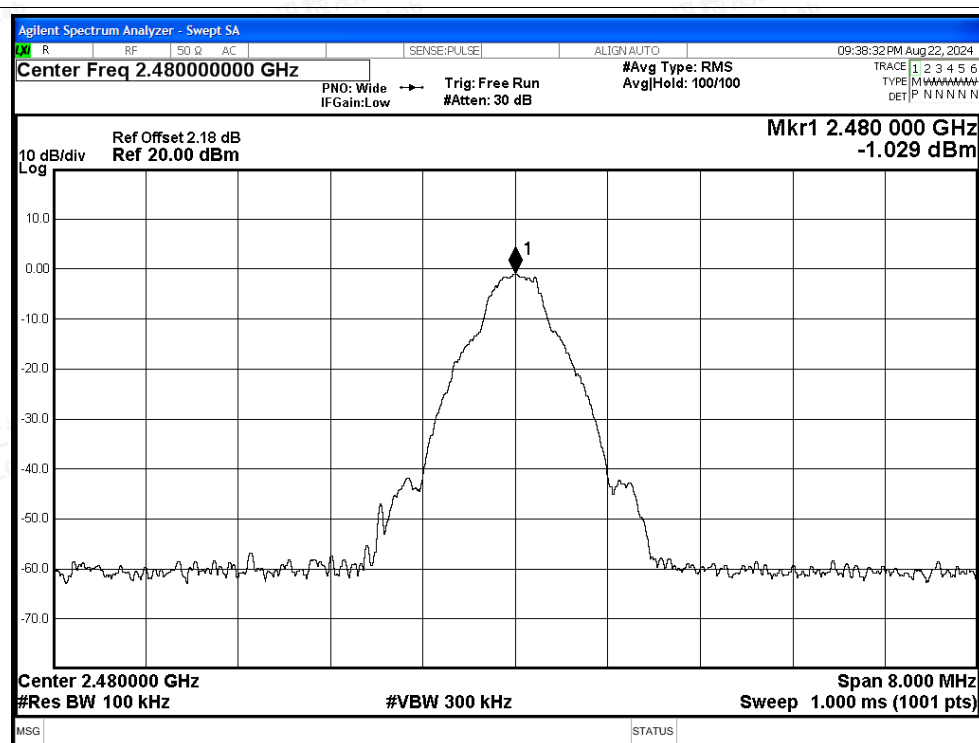
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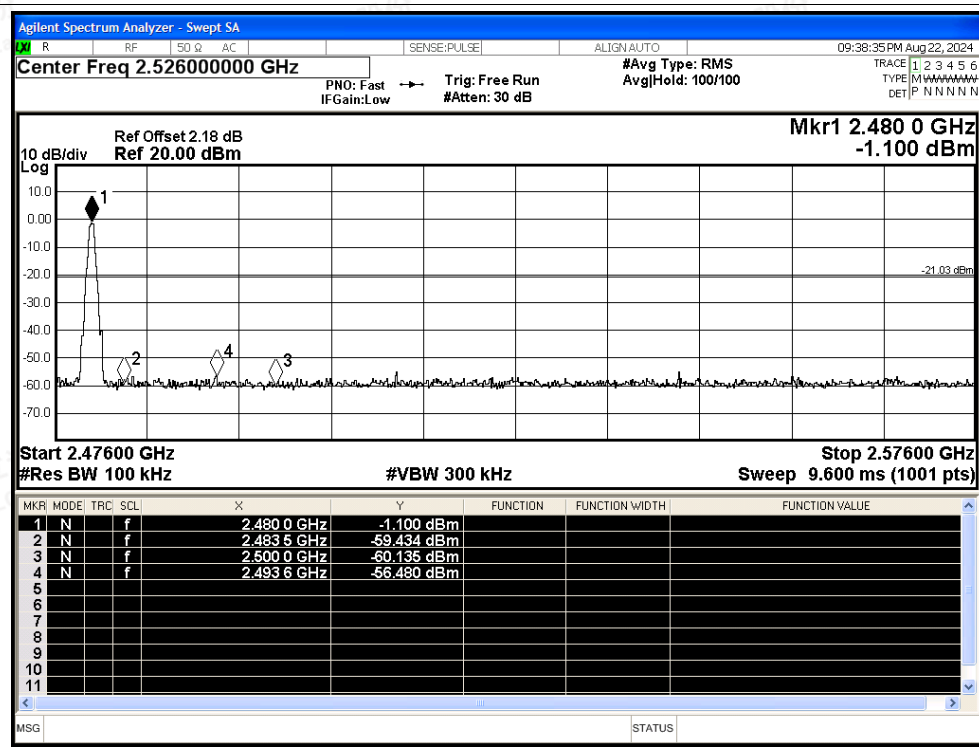
Scan code to check authenticity



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



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



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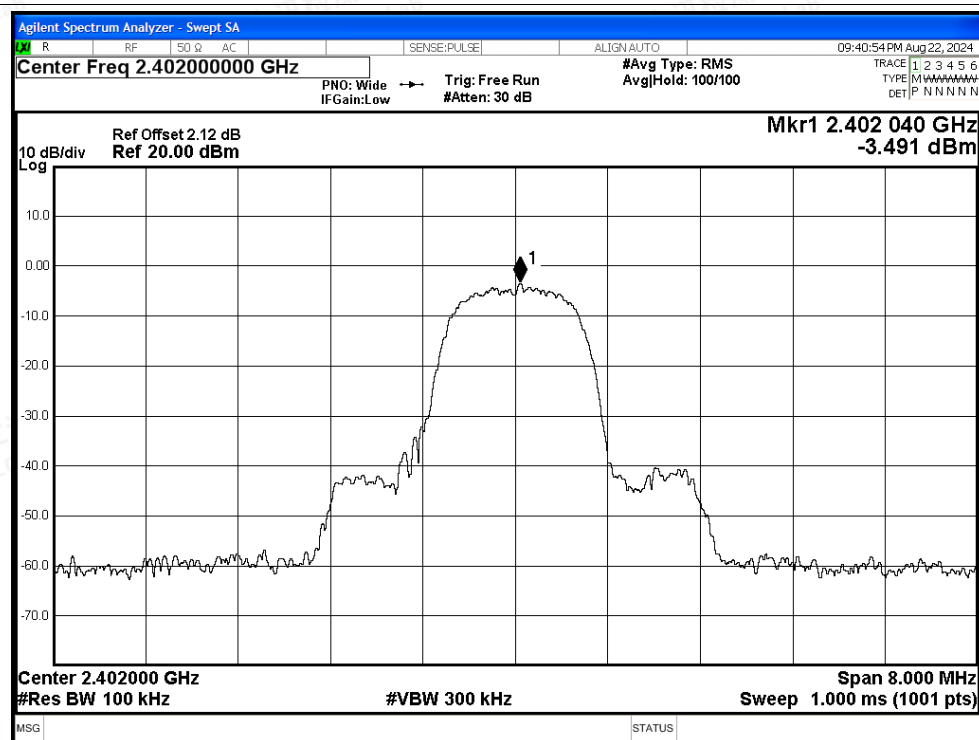
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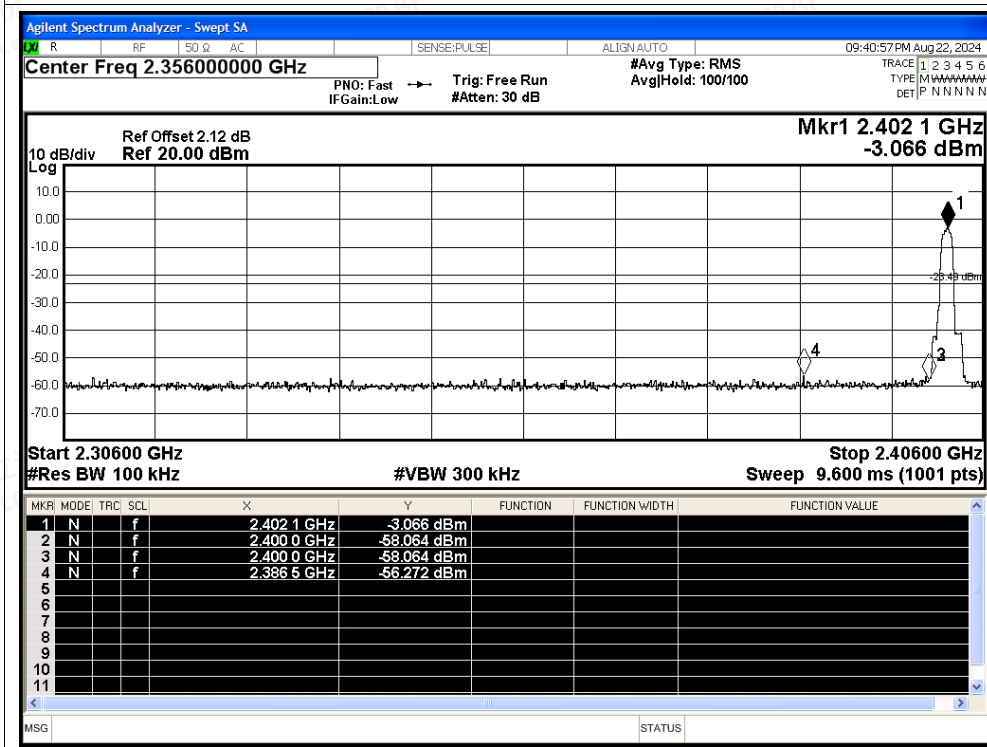
Scan code to check authenticity



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



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



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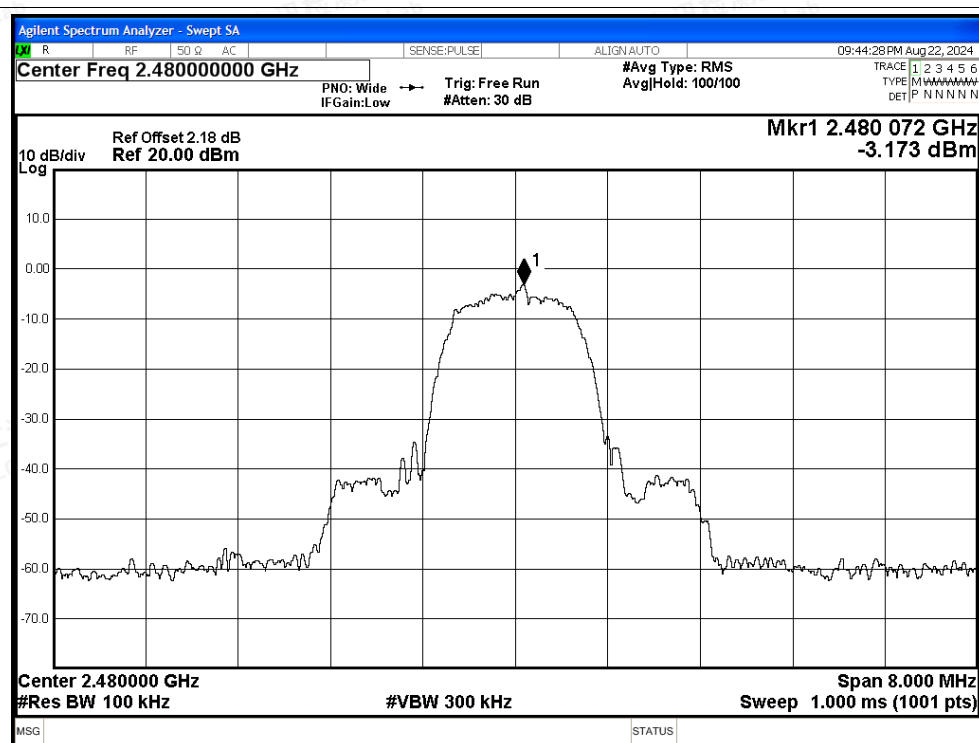
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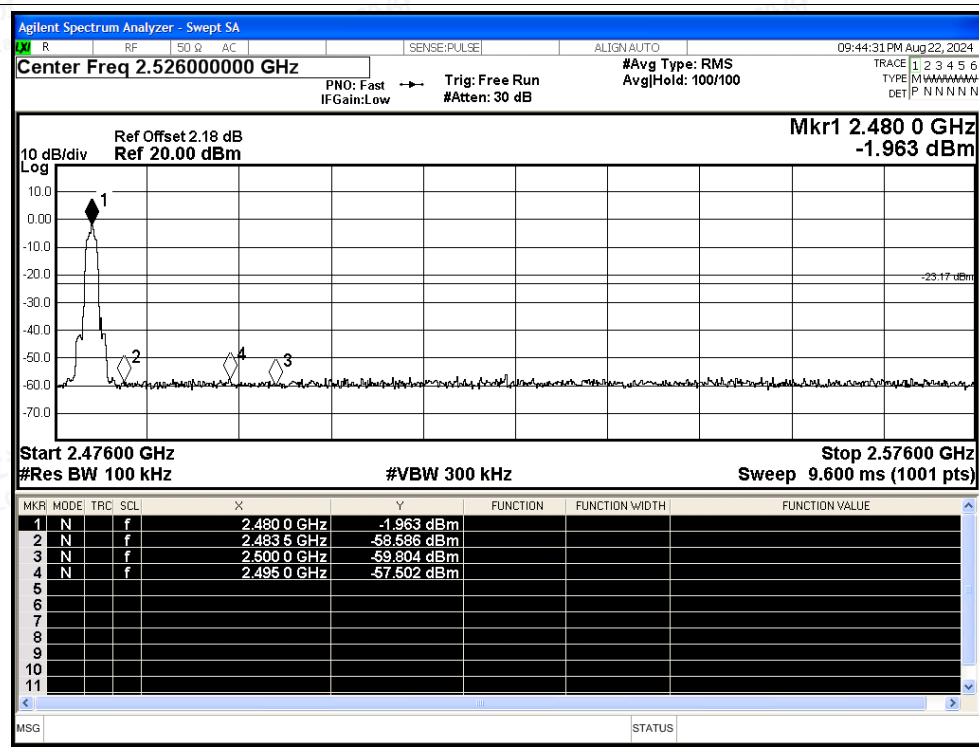
Scan code to check authenticity



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



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



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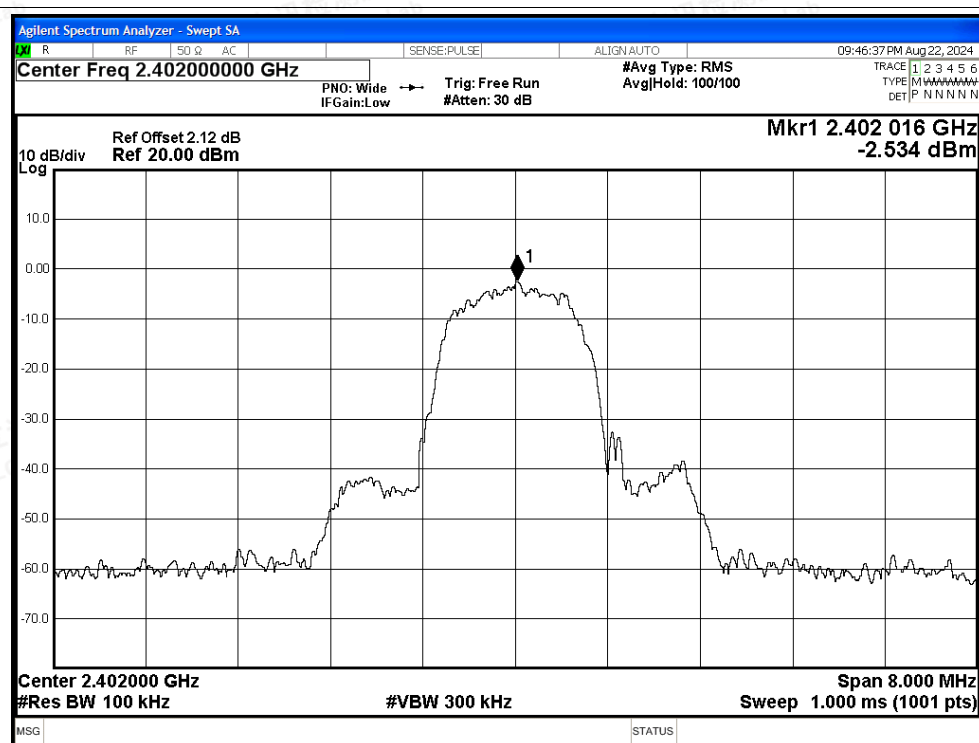
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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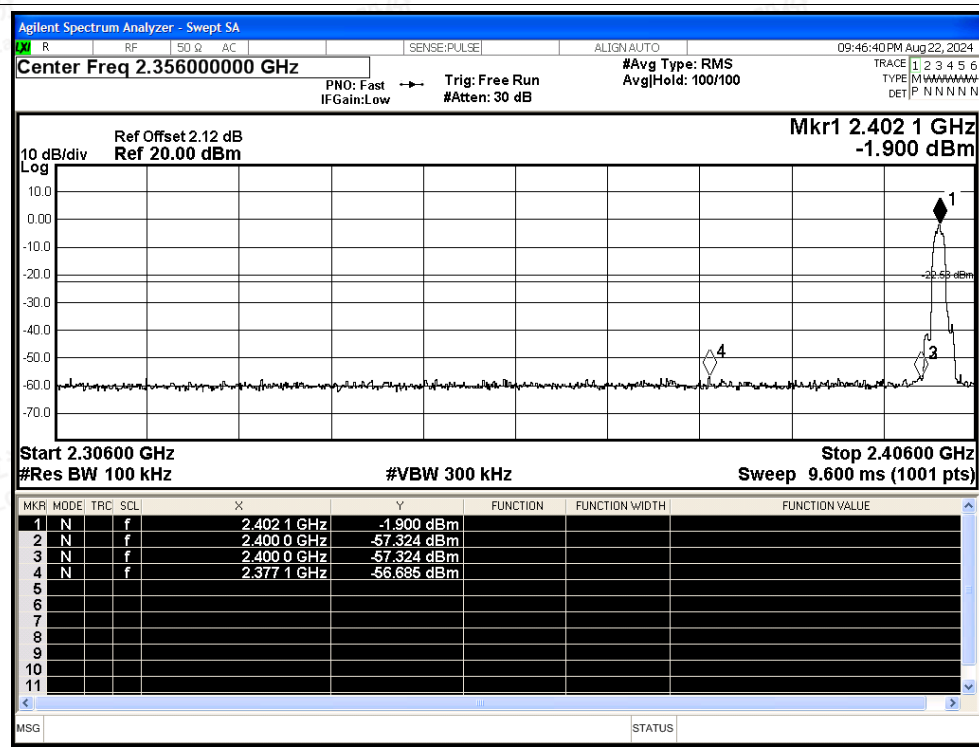
Scan code to check authenticity



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

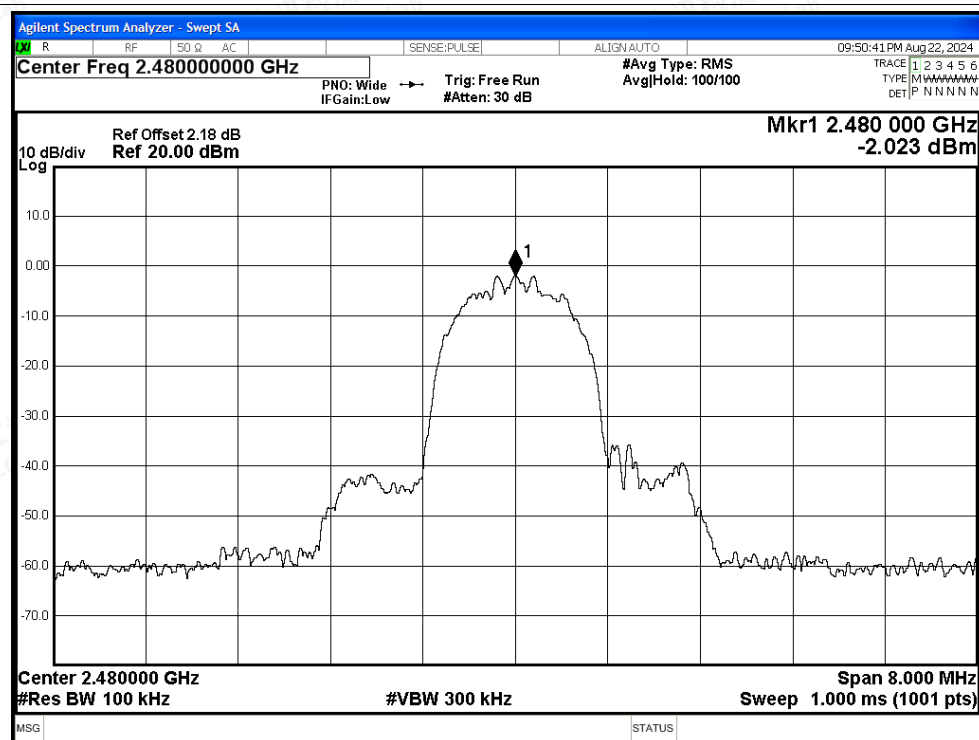


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

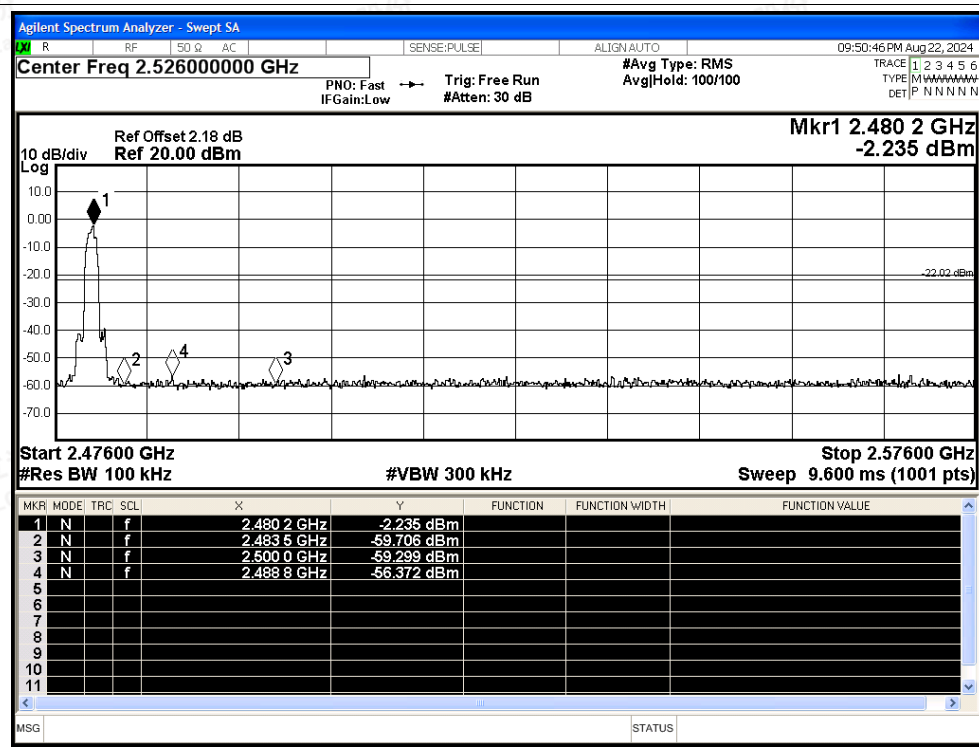




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



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(Hopping)

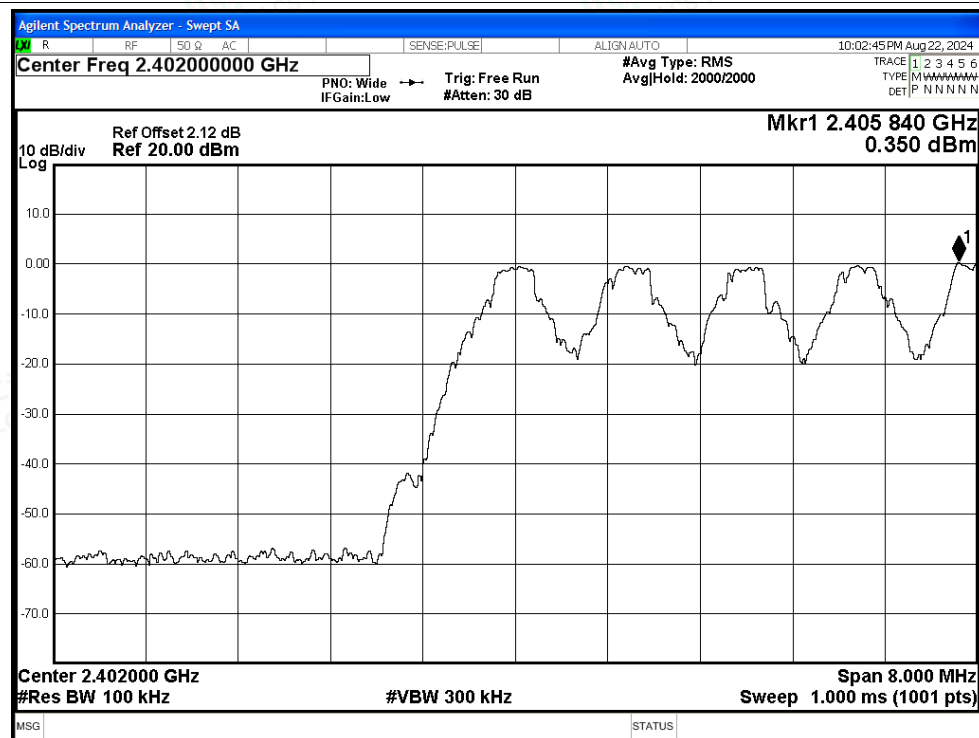
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.55	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.64	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.39	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.98	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-52.15	-20	Pass



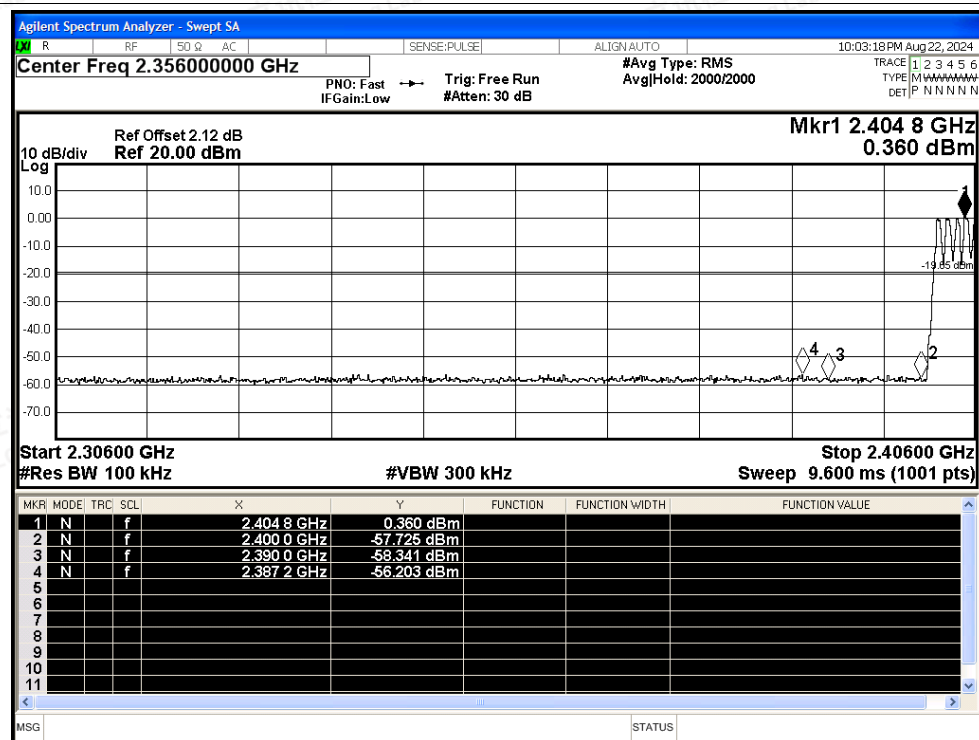


Test Graphs

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



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



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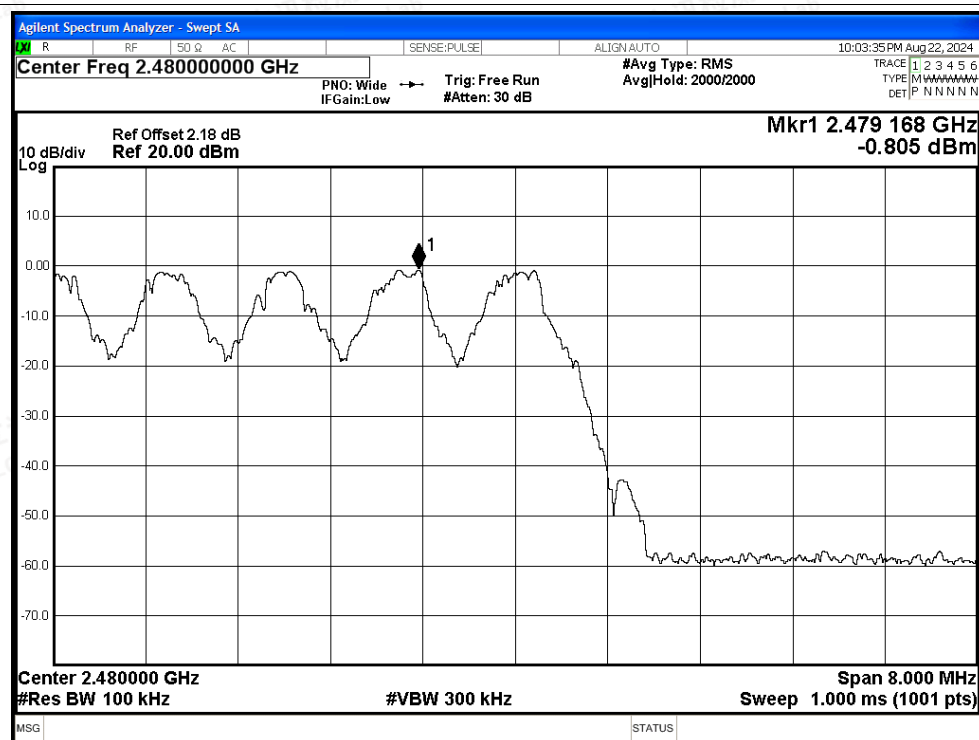
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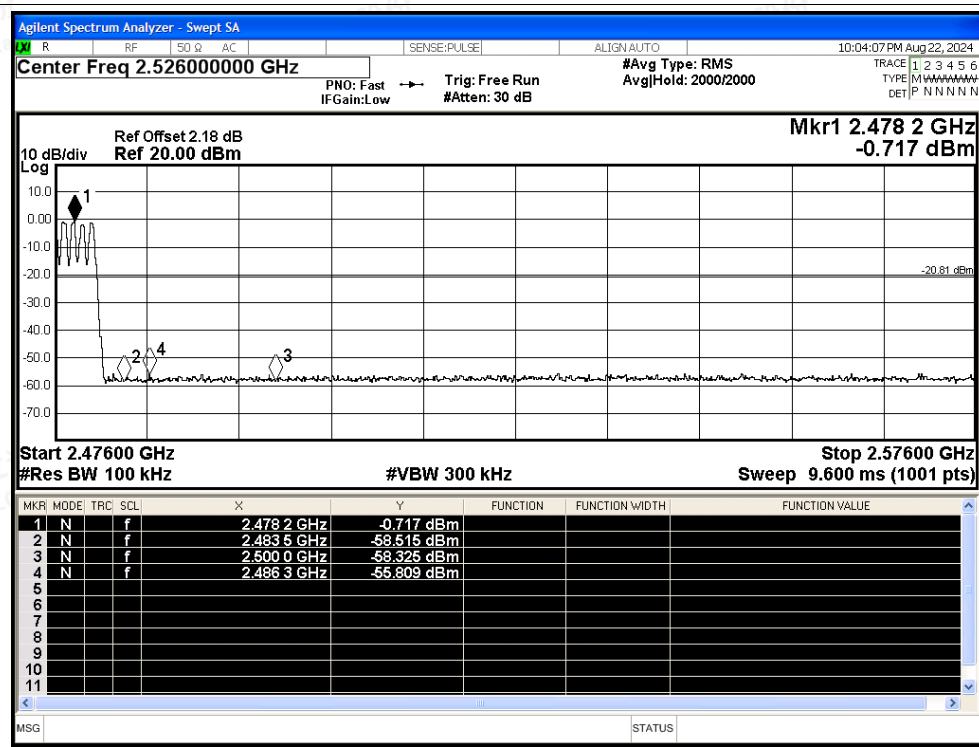
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

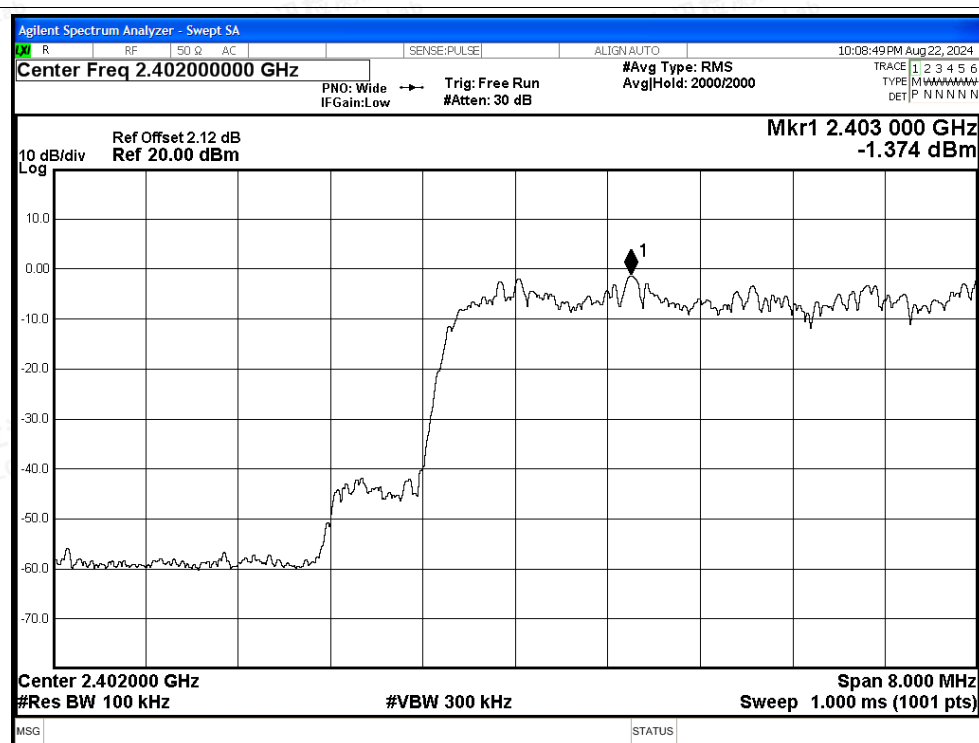
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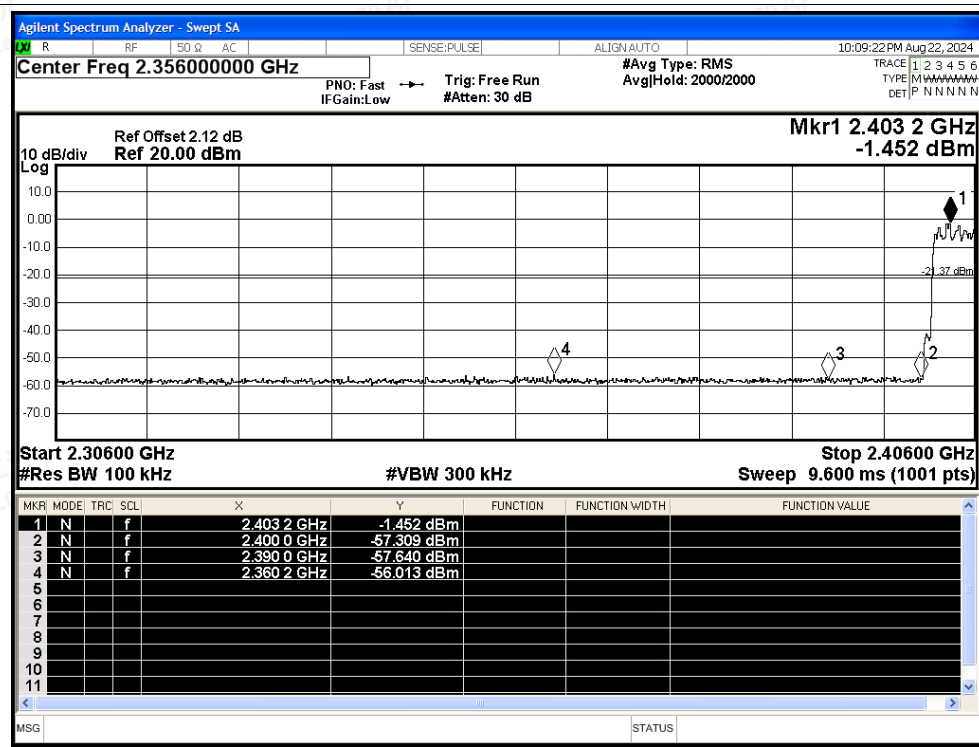
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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



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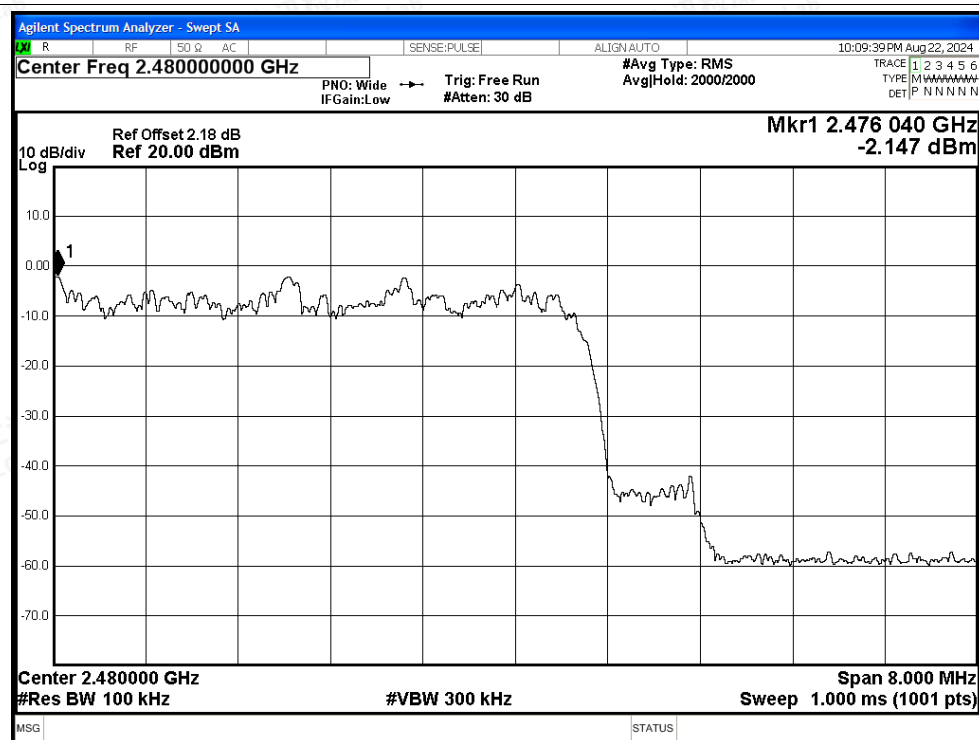
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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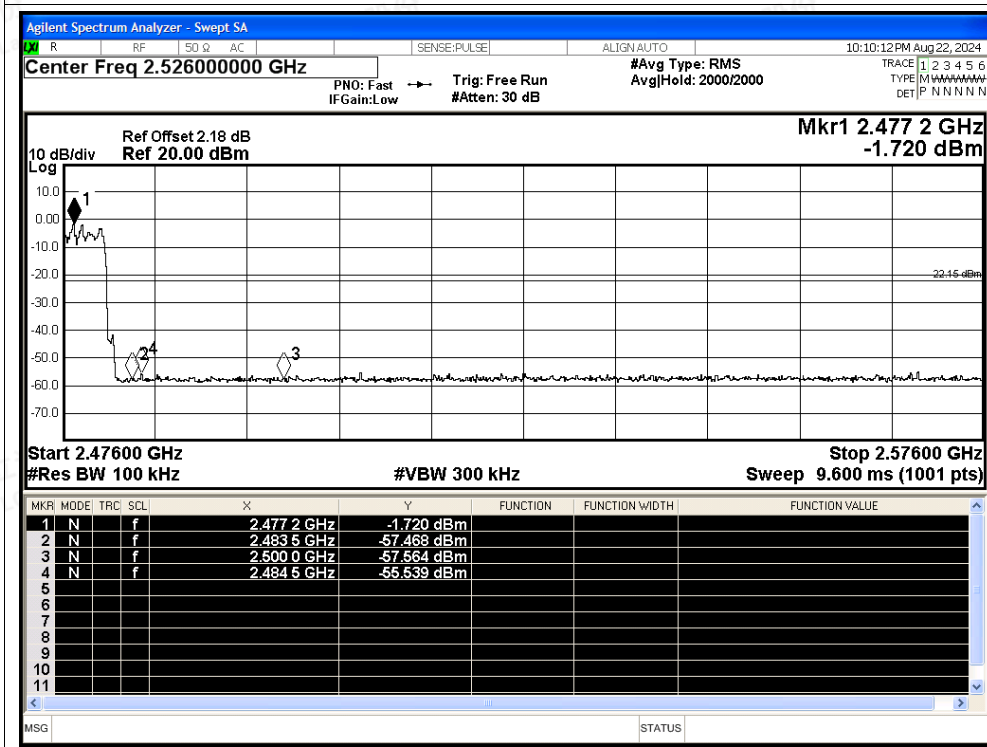
Scan code to check authenticity



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



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

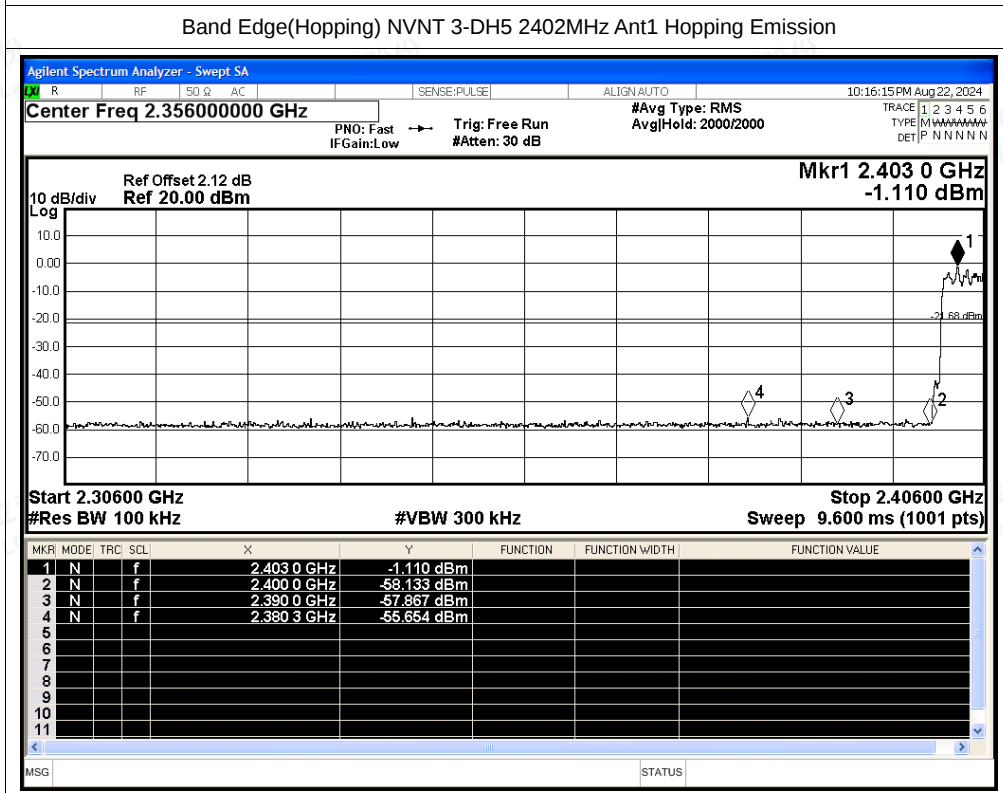
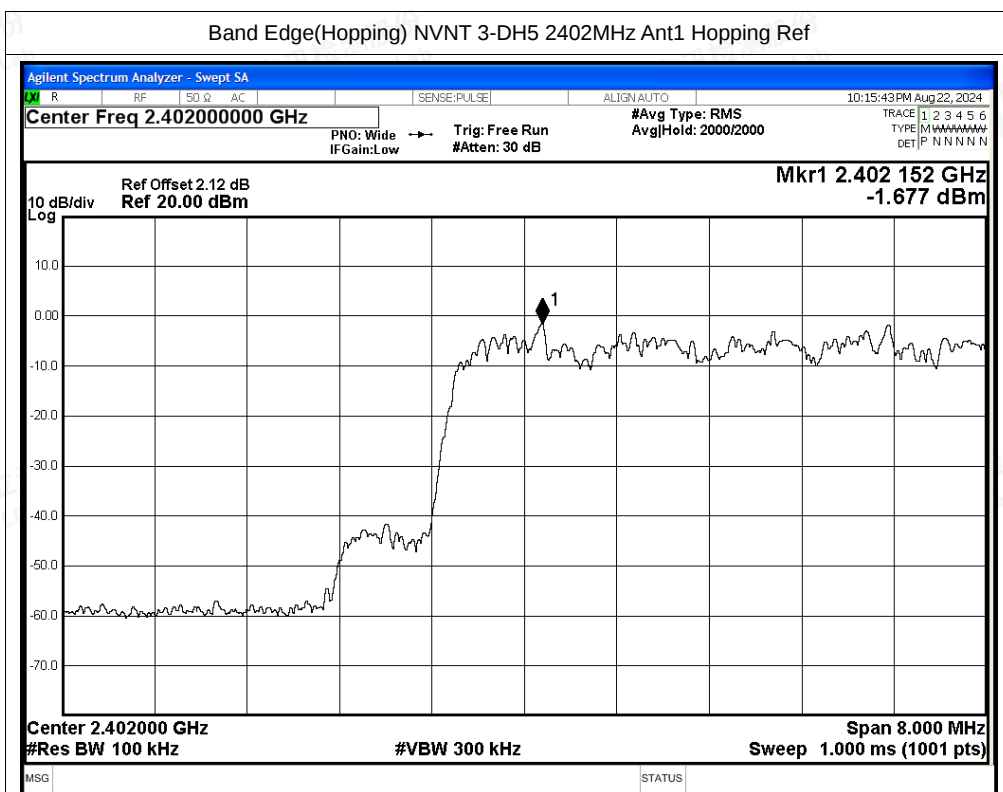


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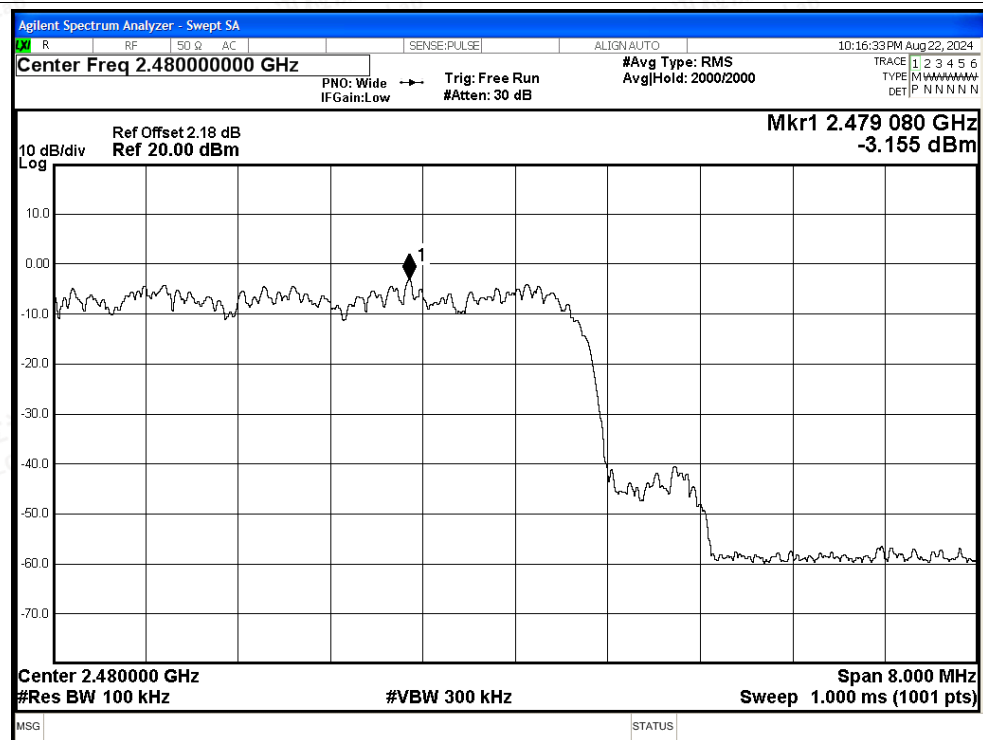
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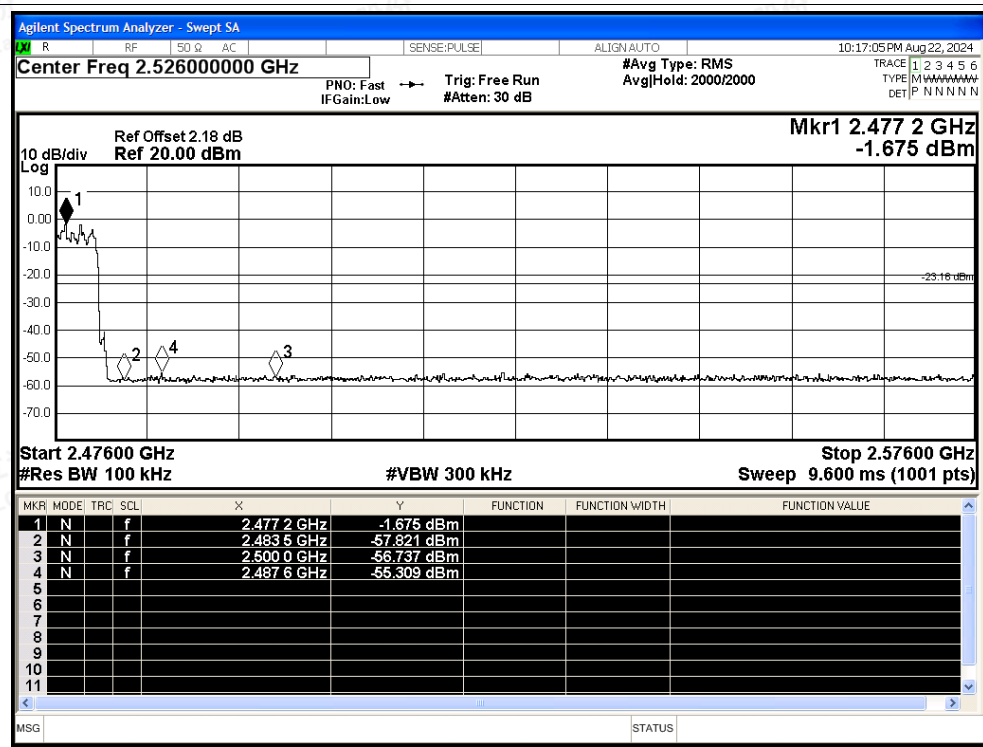
Scan code to check authenticity



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	-55.58	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.53	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.21	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.18	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.21	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.48	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.19	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.87	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.63	-20	Pass

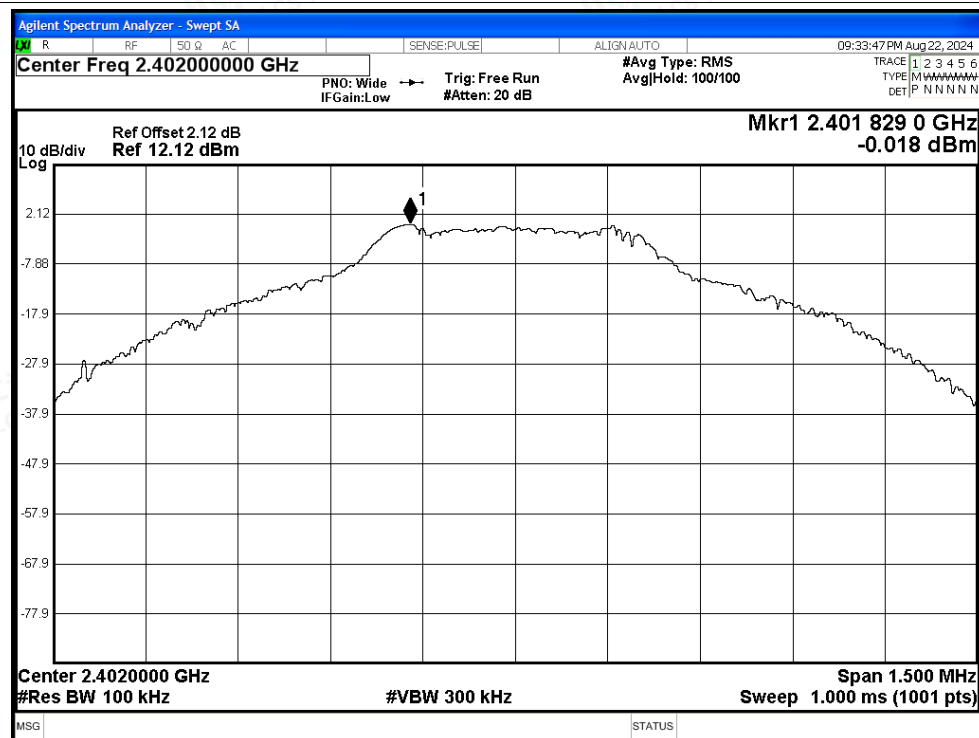


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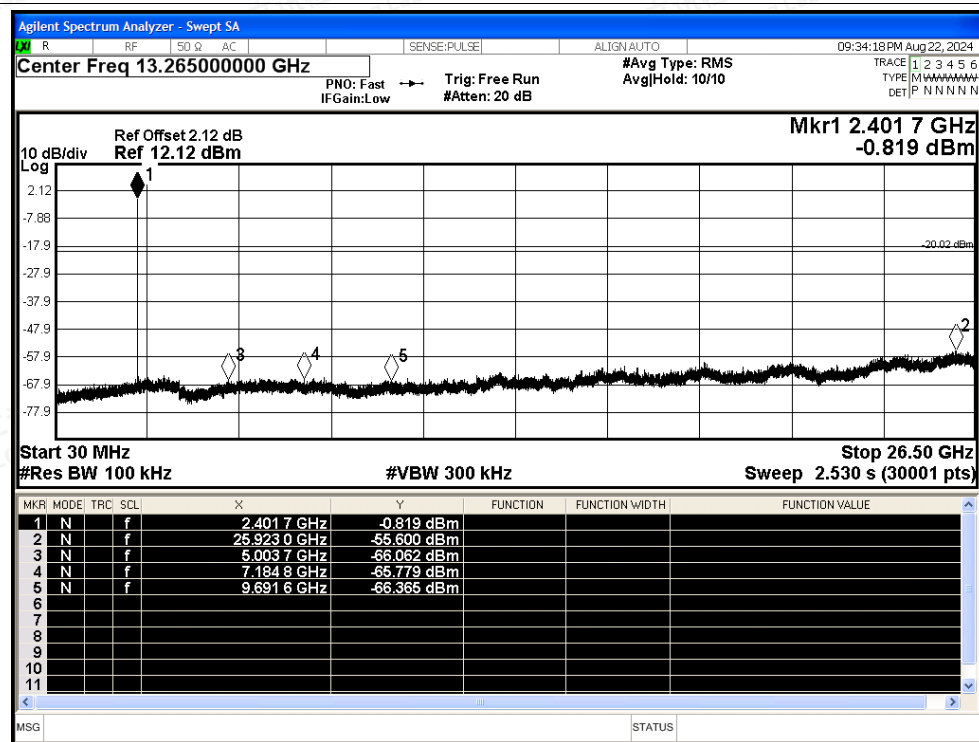


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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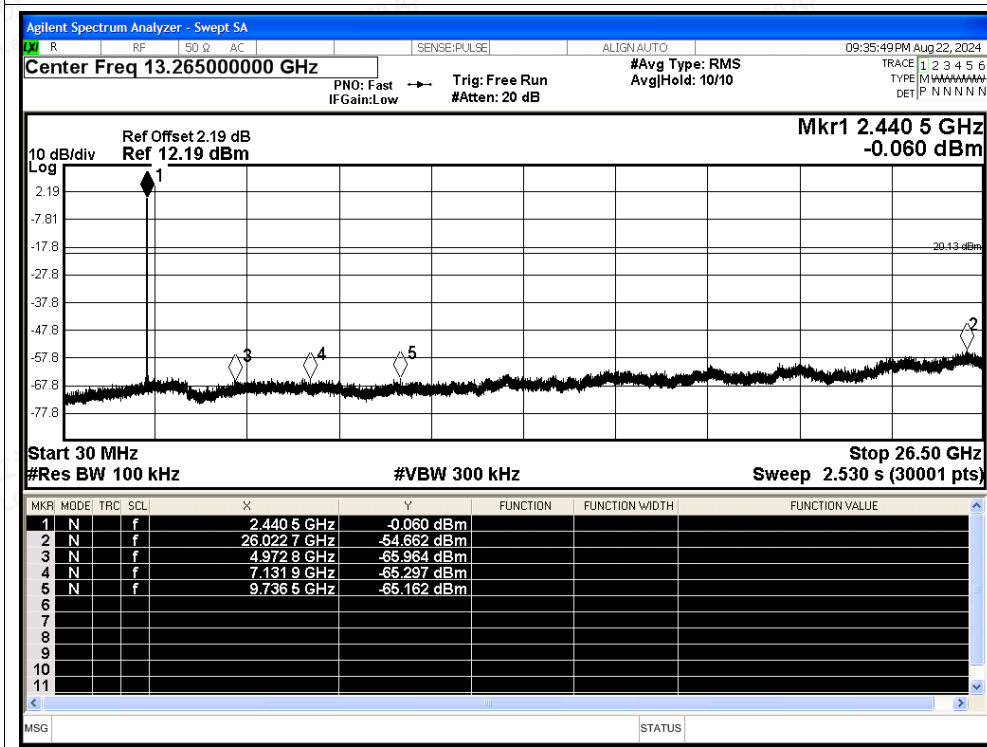
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

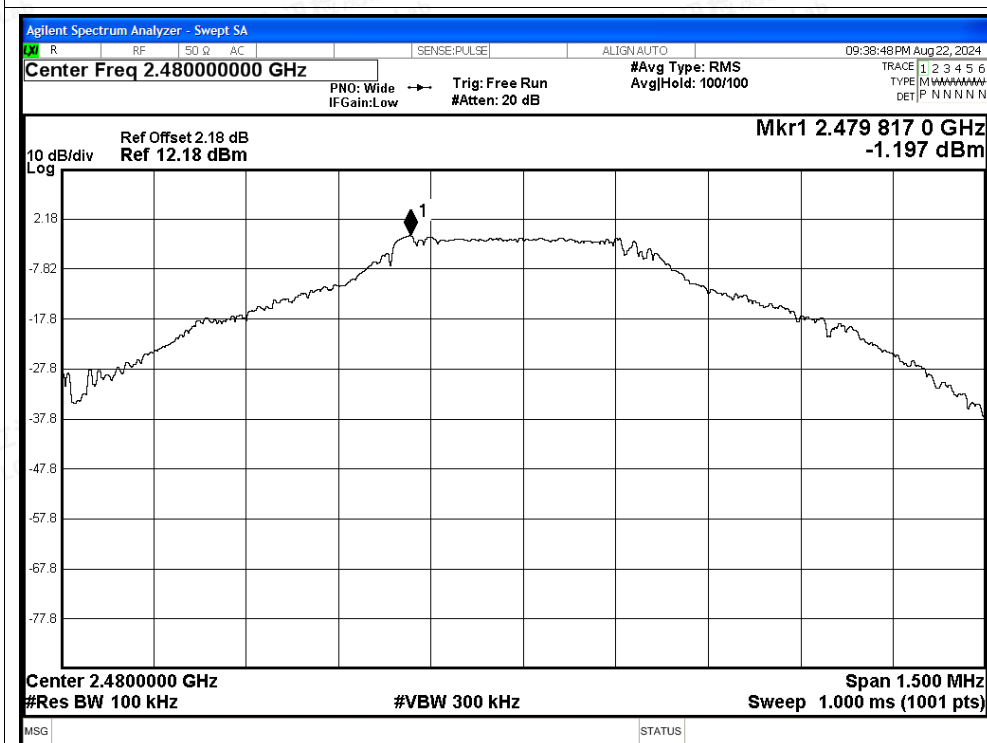
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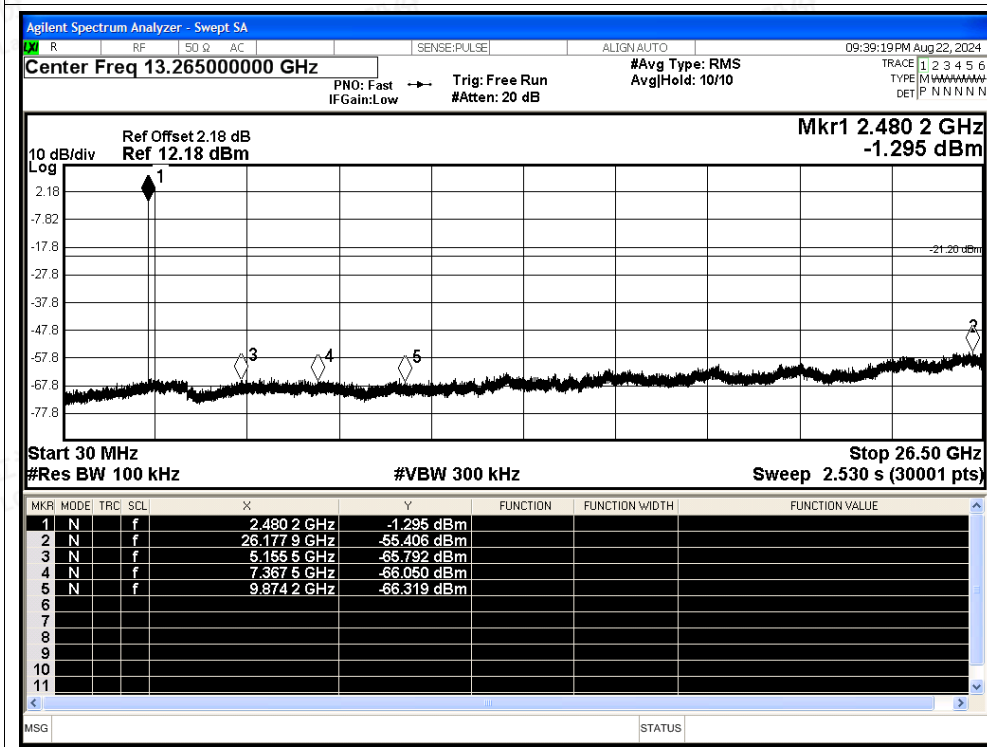
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

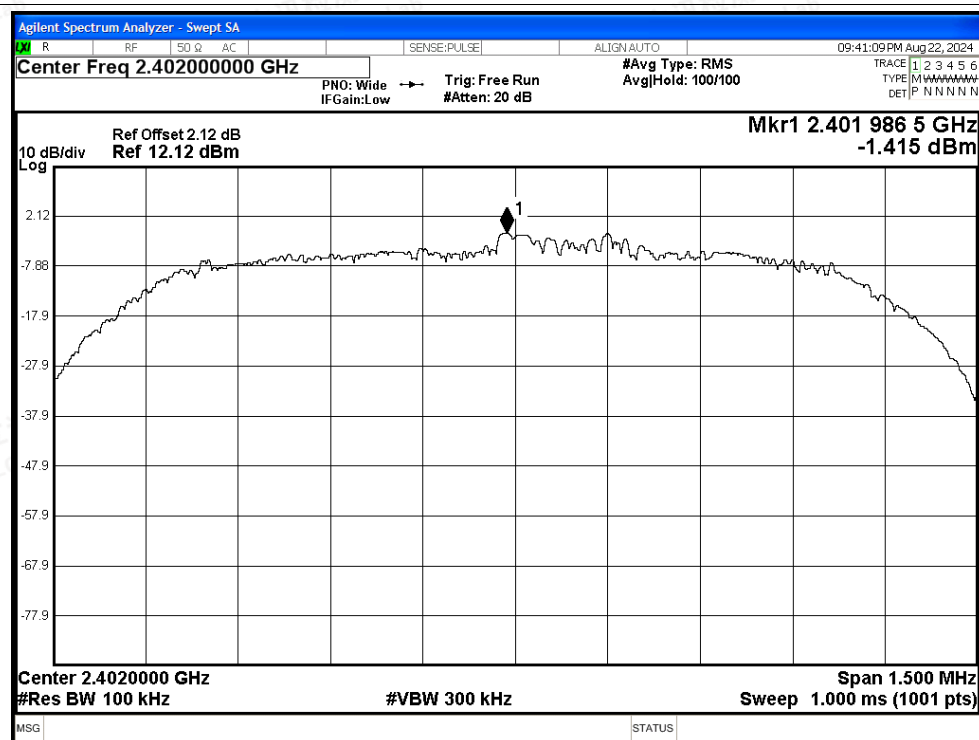
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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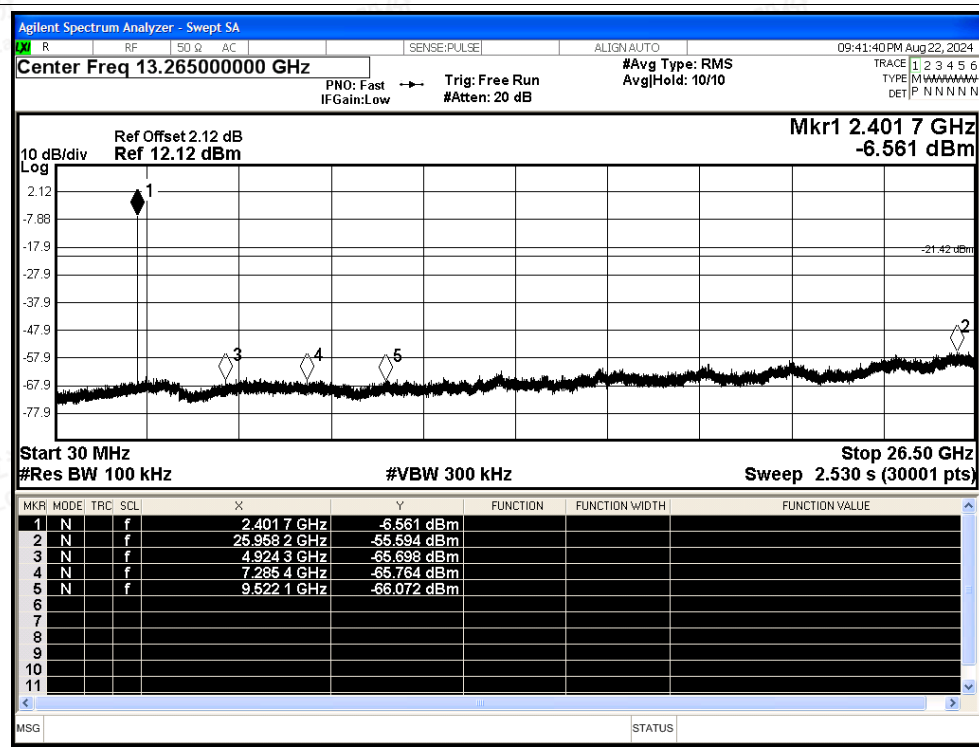
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

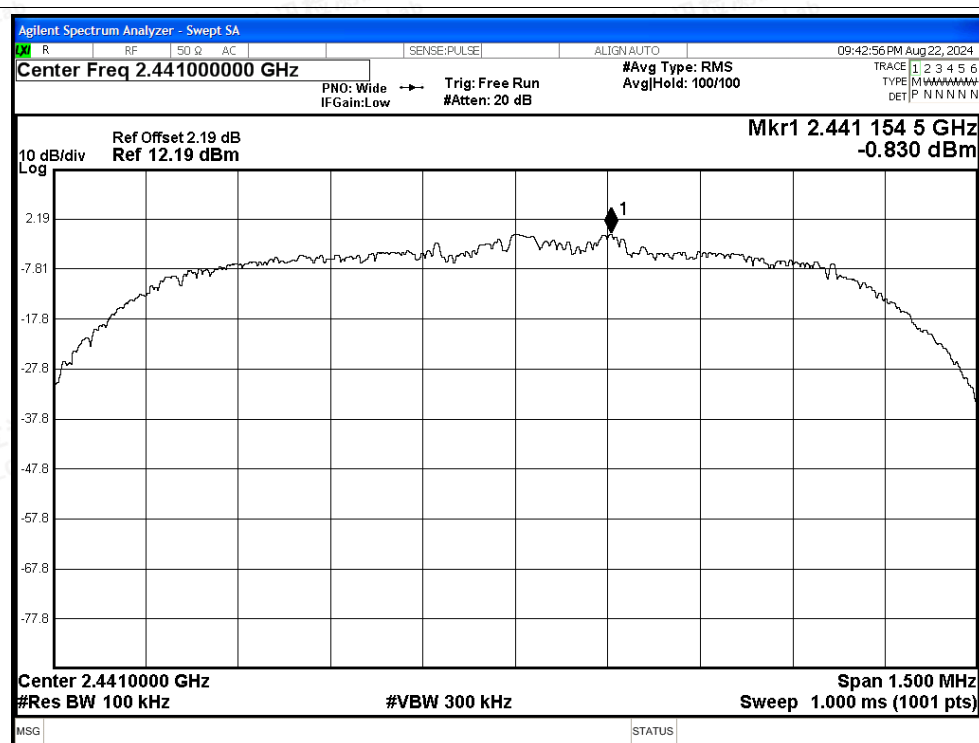
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

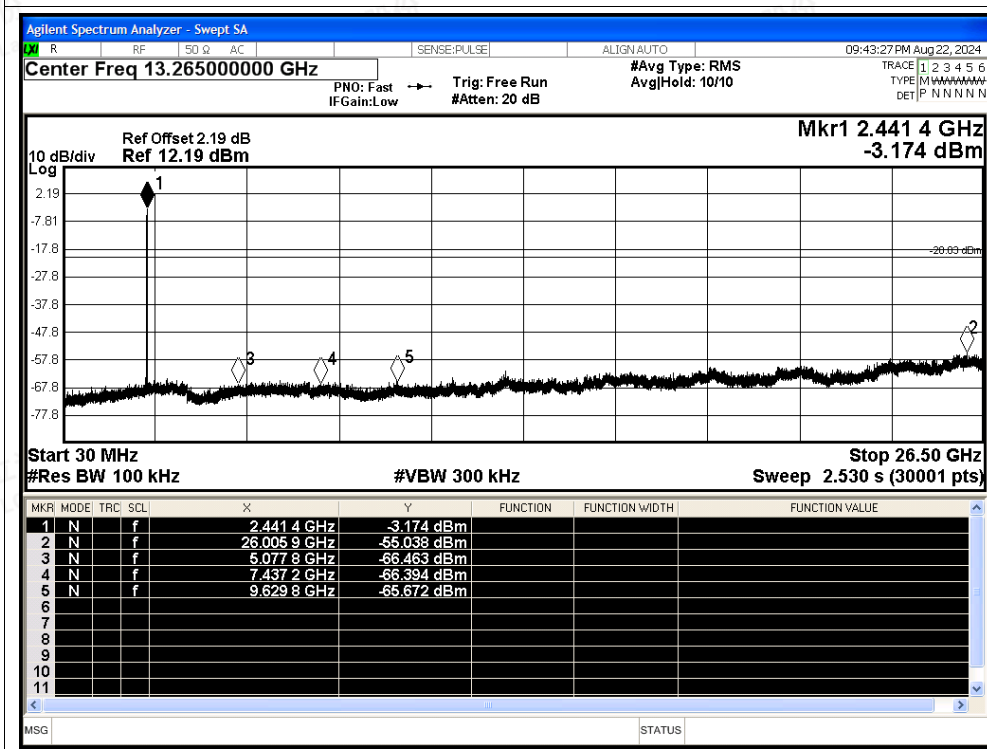
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

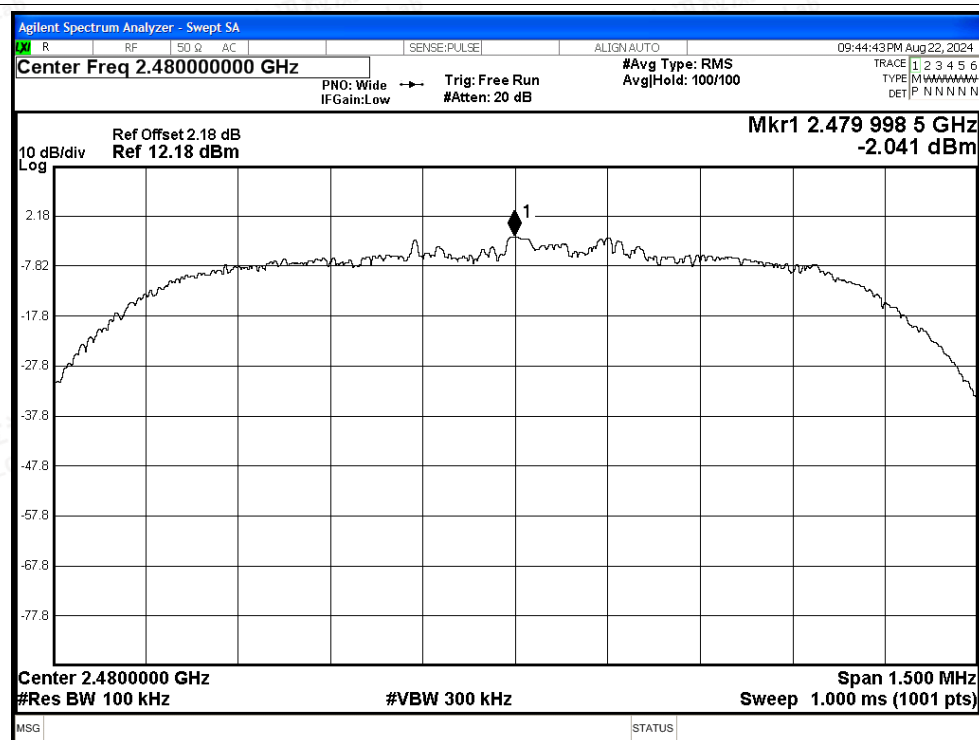
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

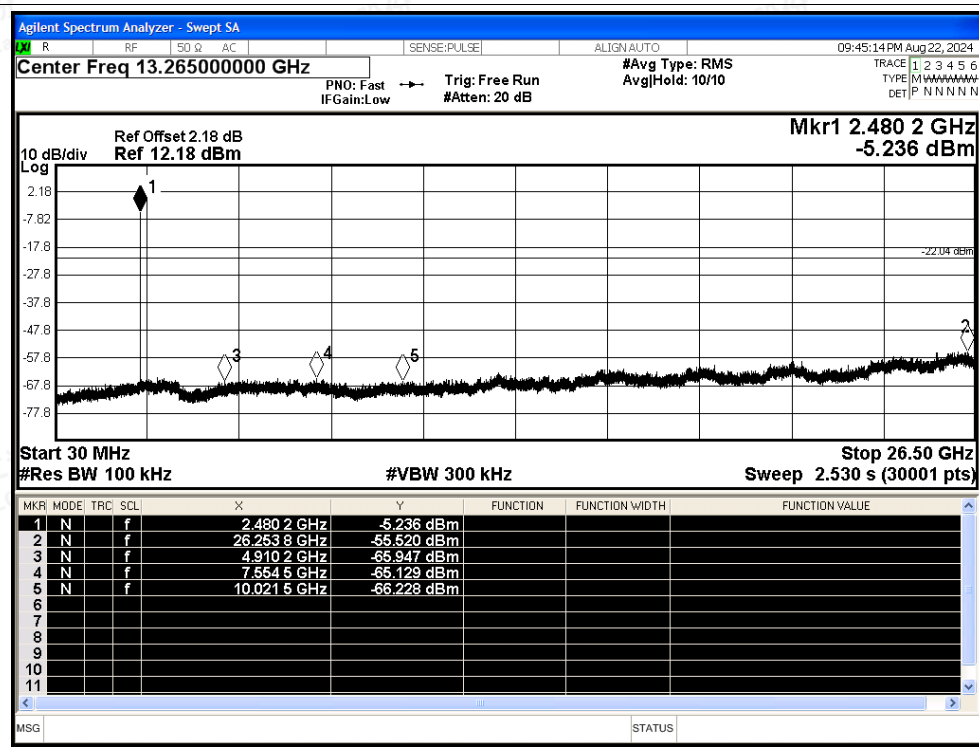
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

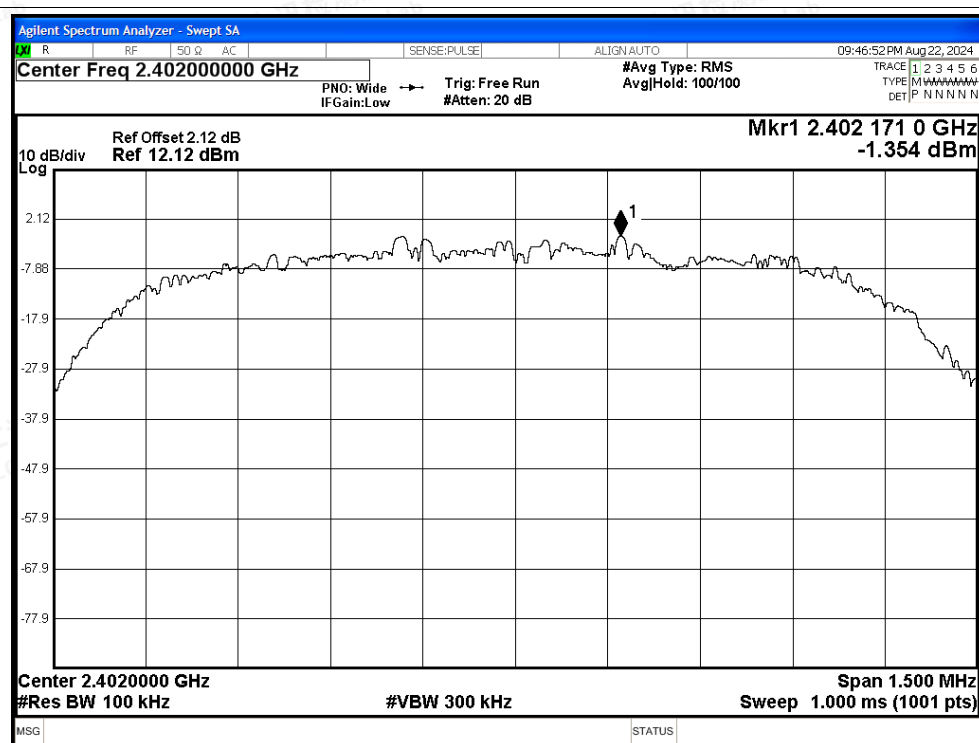
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

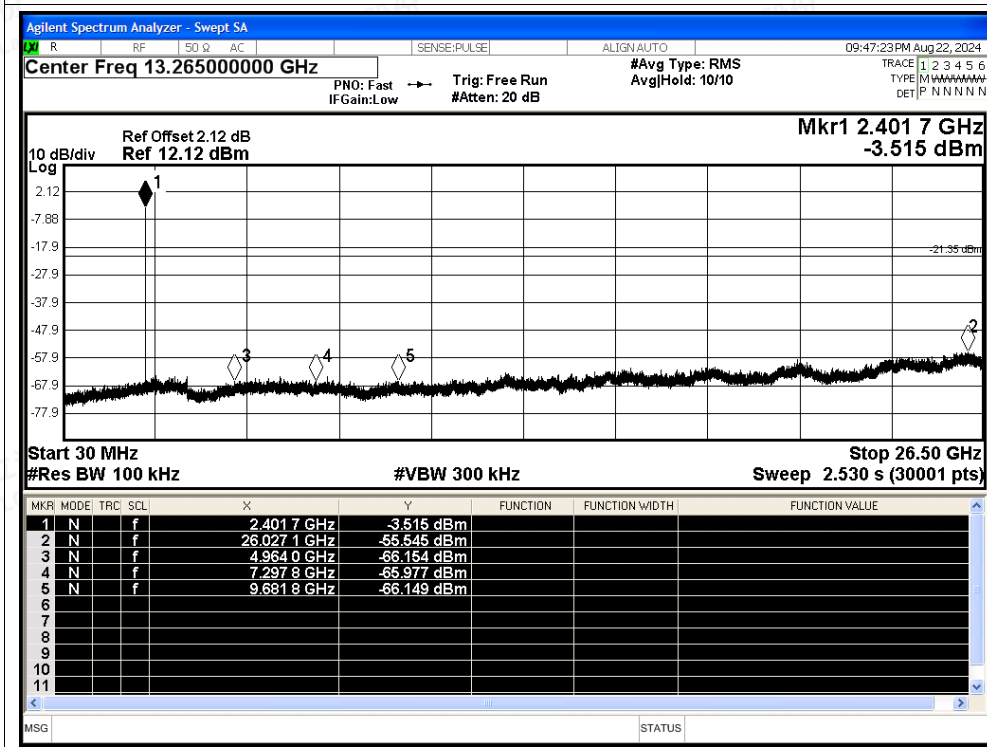
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

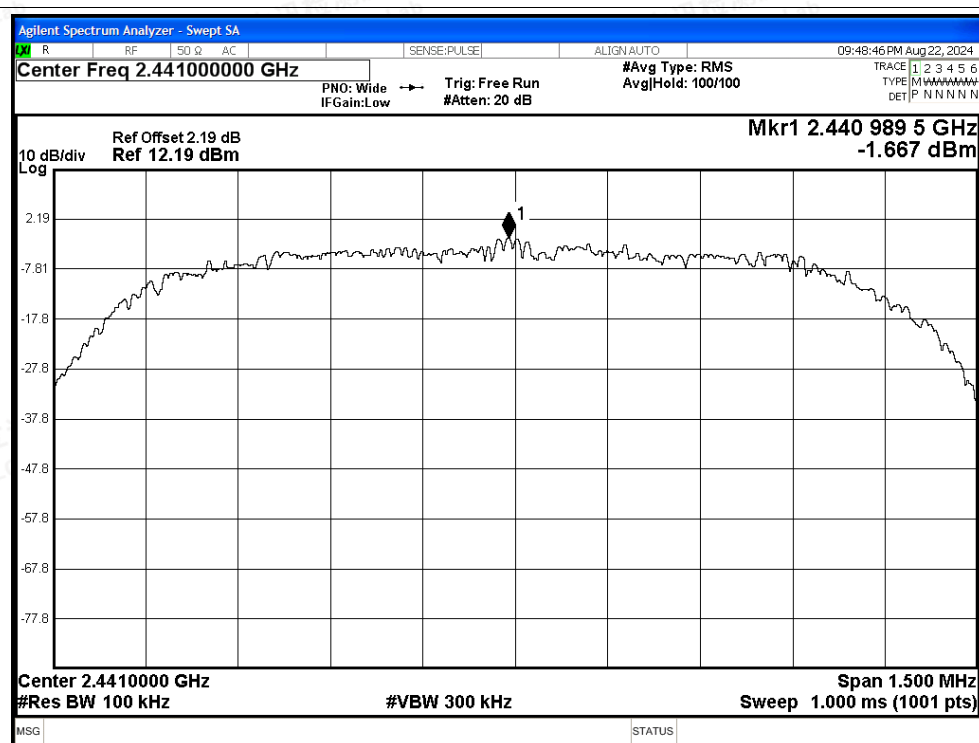
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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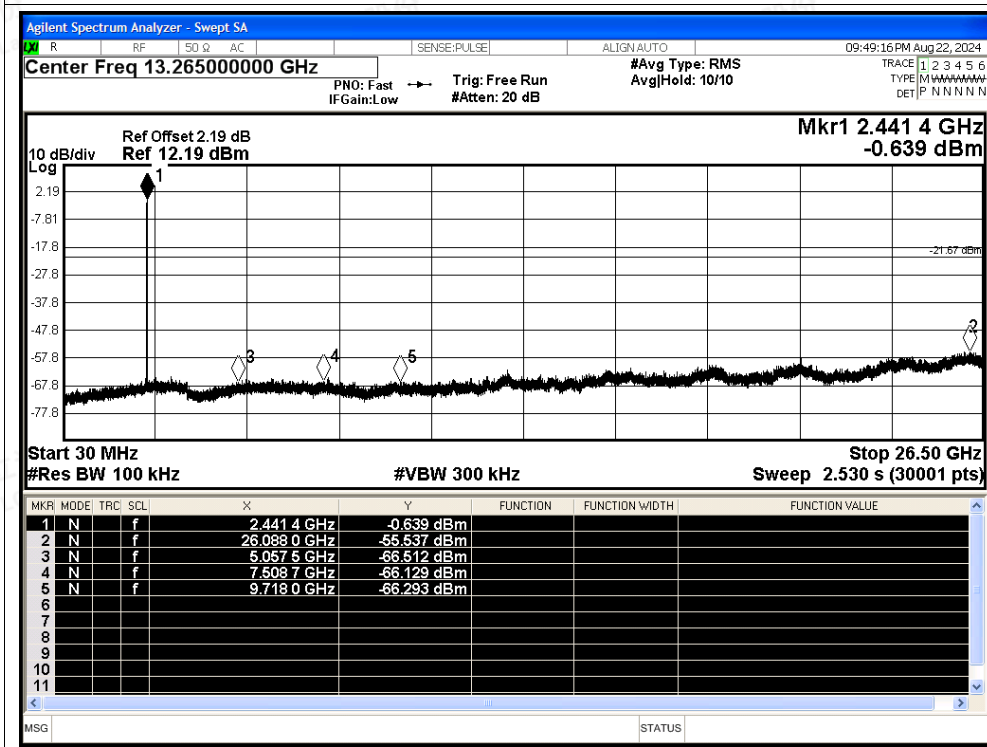
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

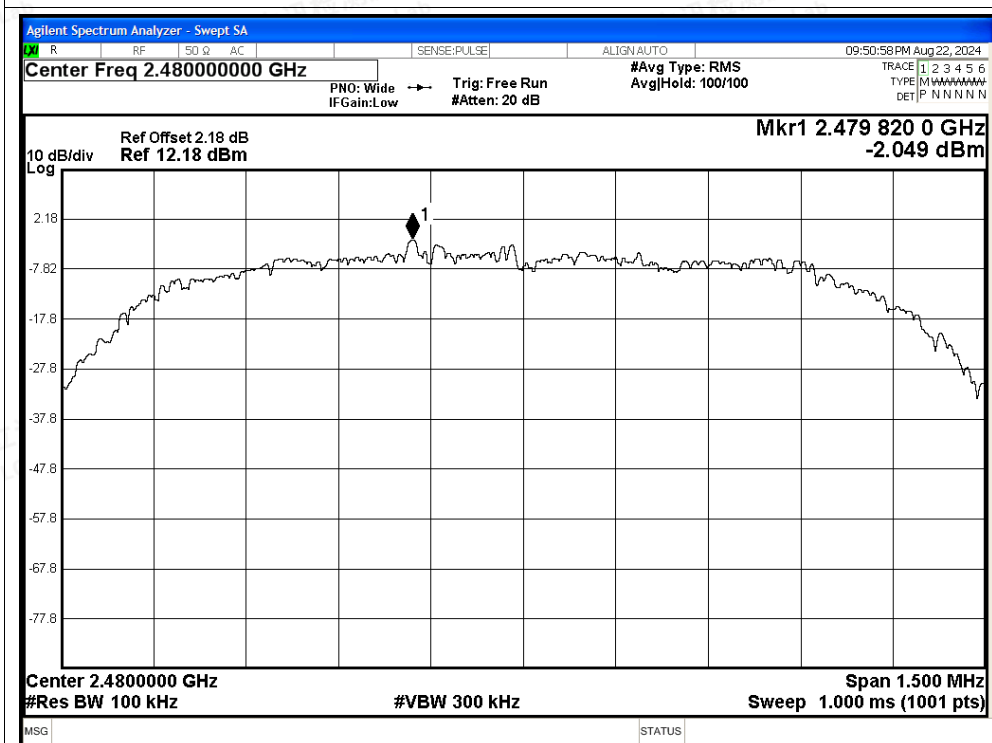
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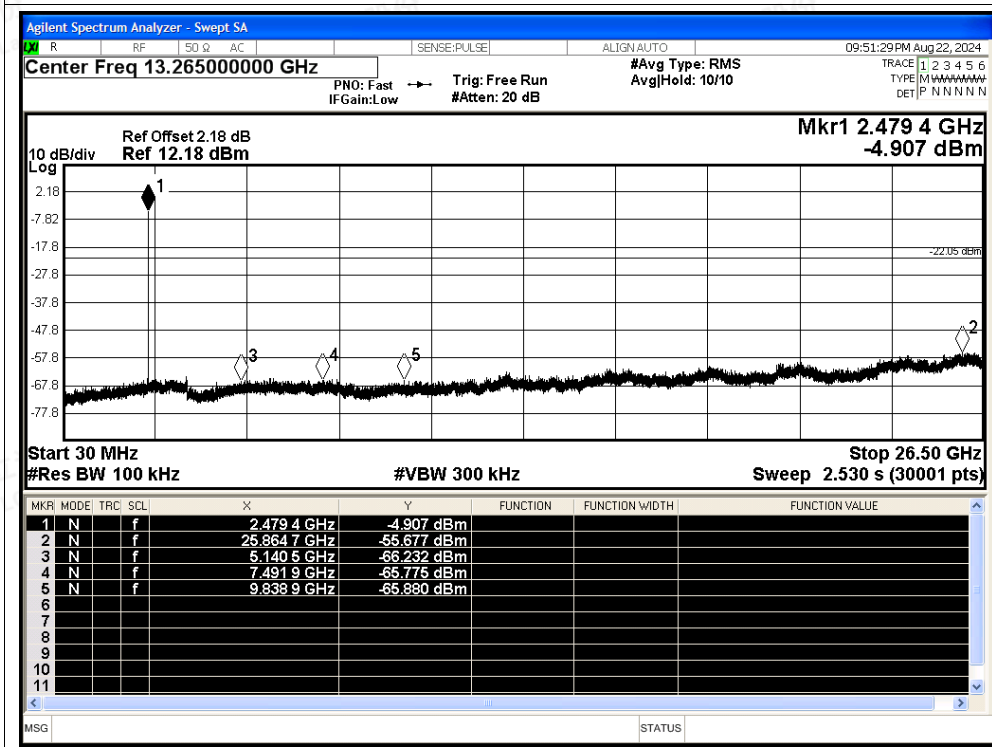
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.33	1.12	0.34
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.29	1.12	0.34
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35

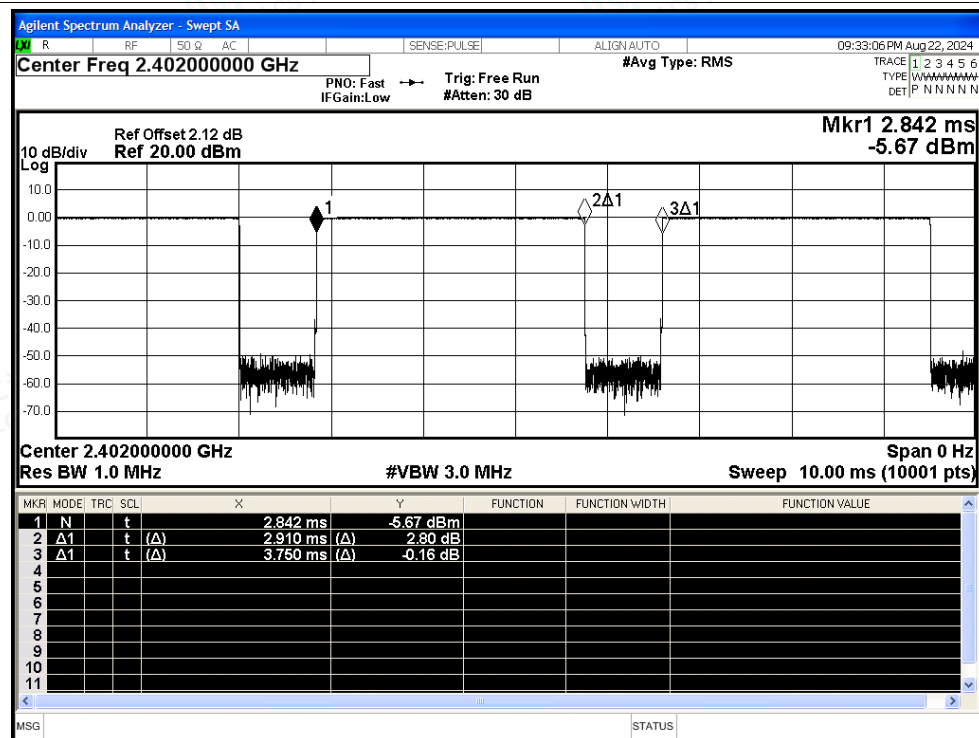


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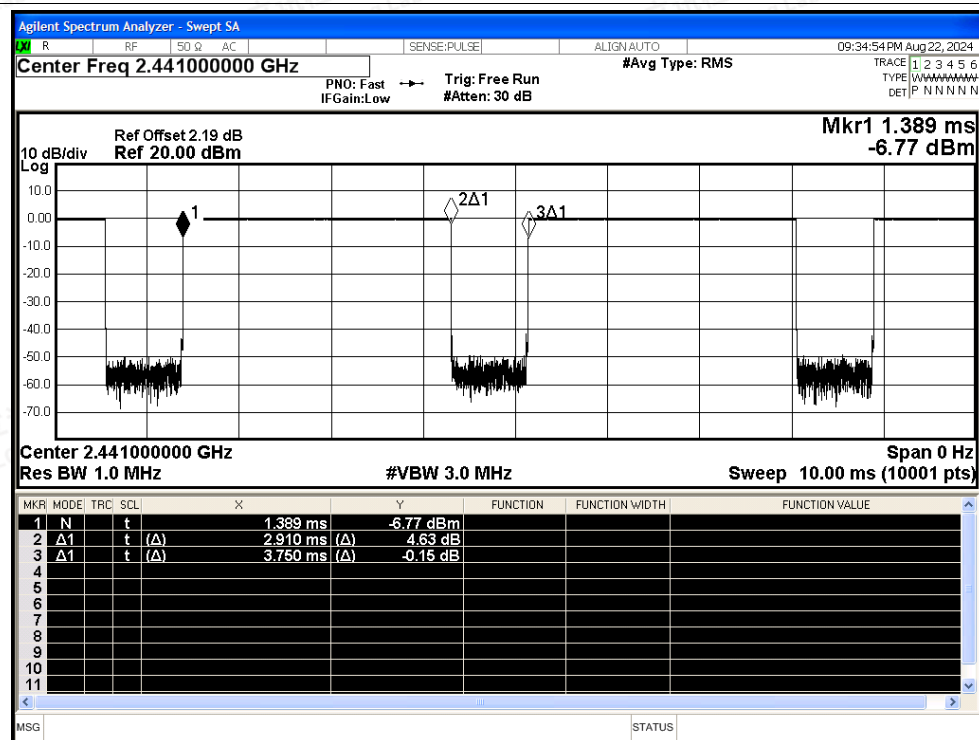


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

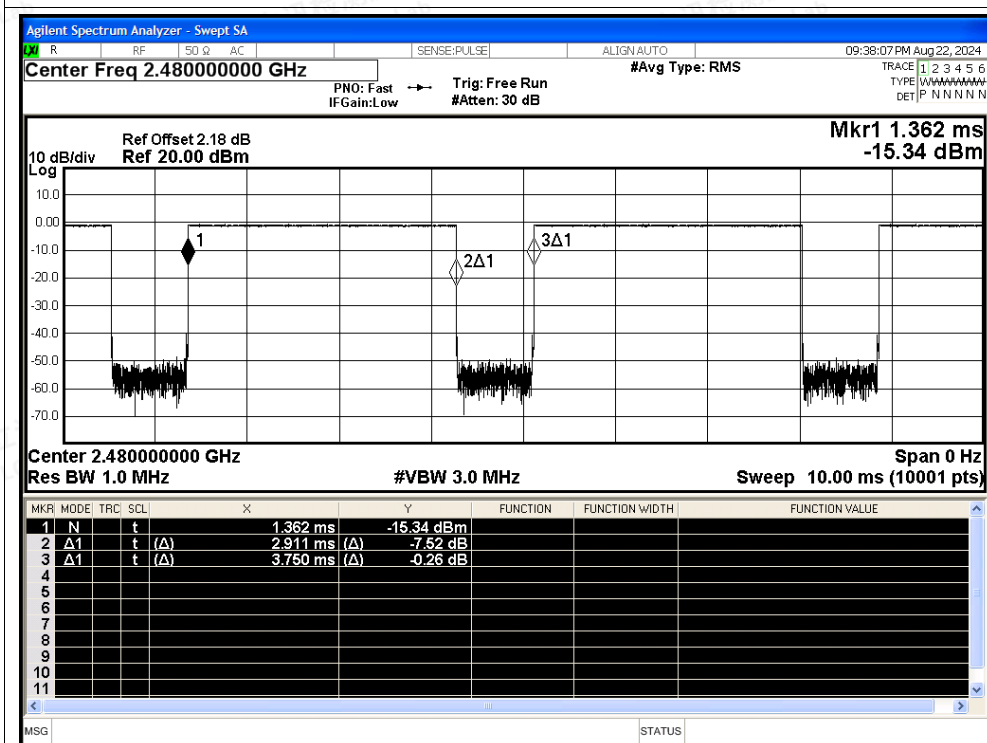
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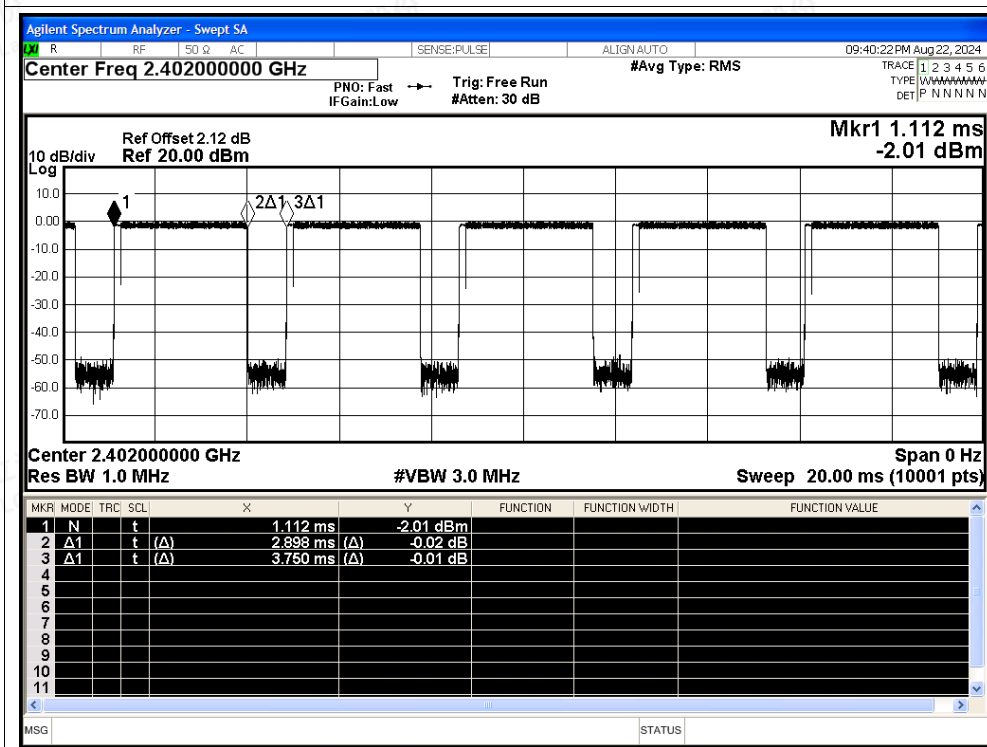
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



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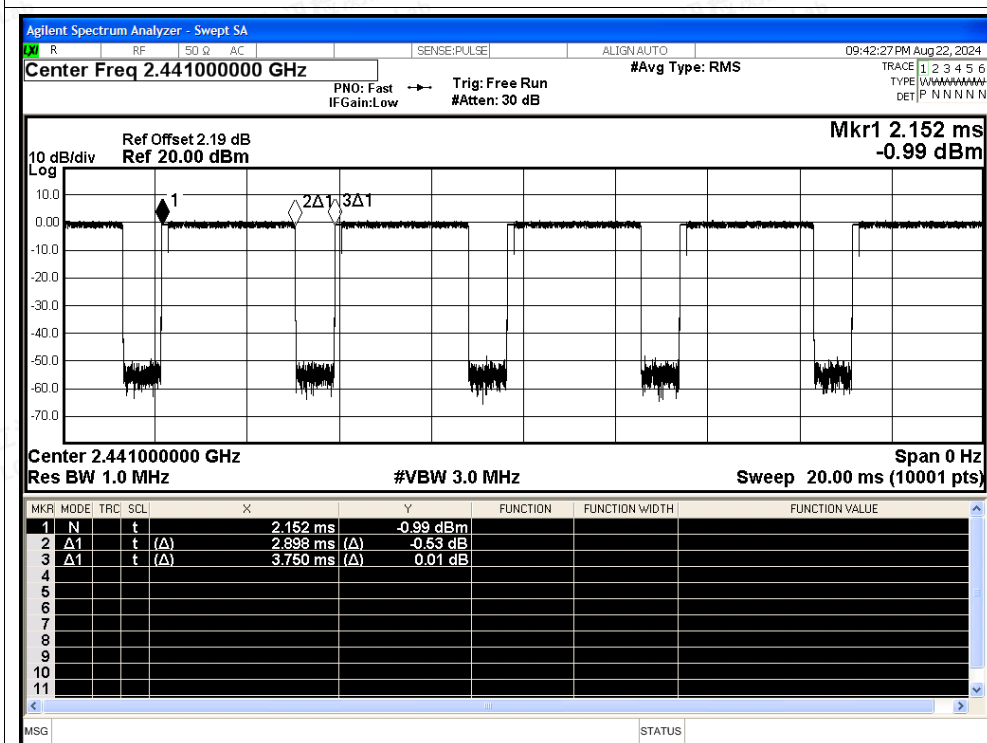
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

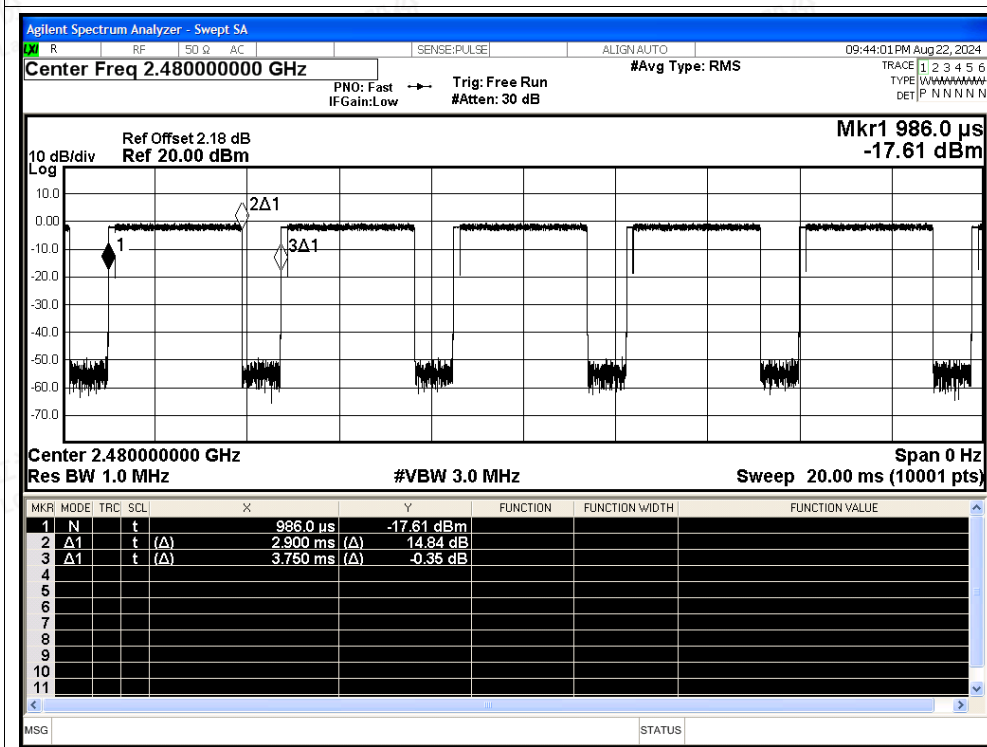
Scan code to check authenticity



Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

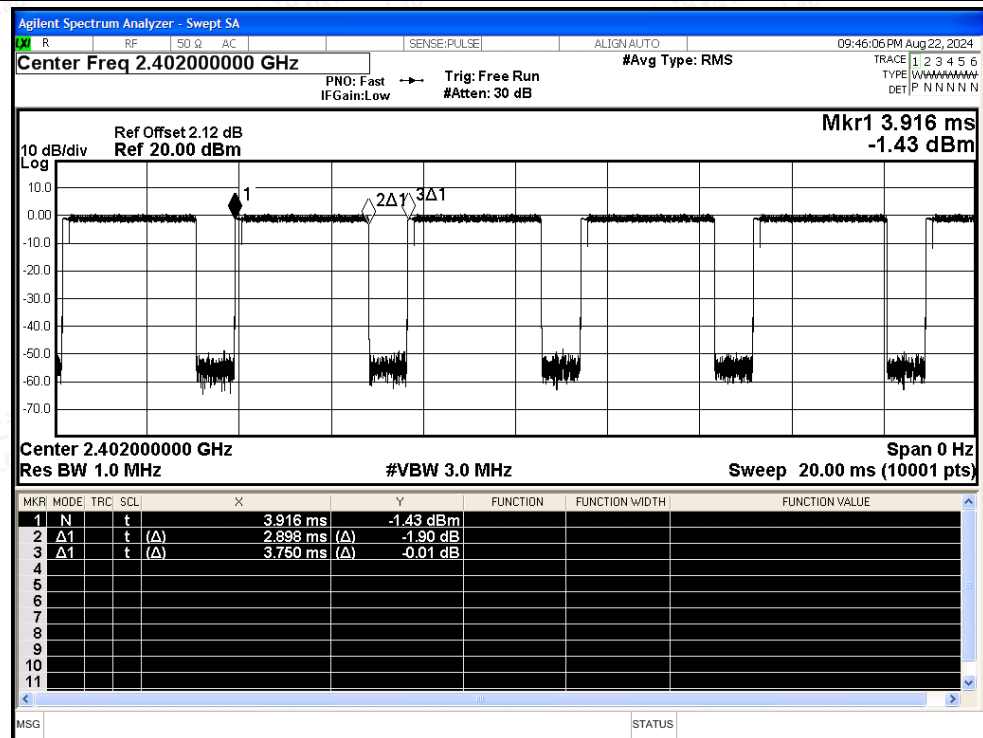
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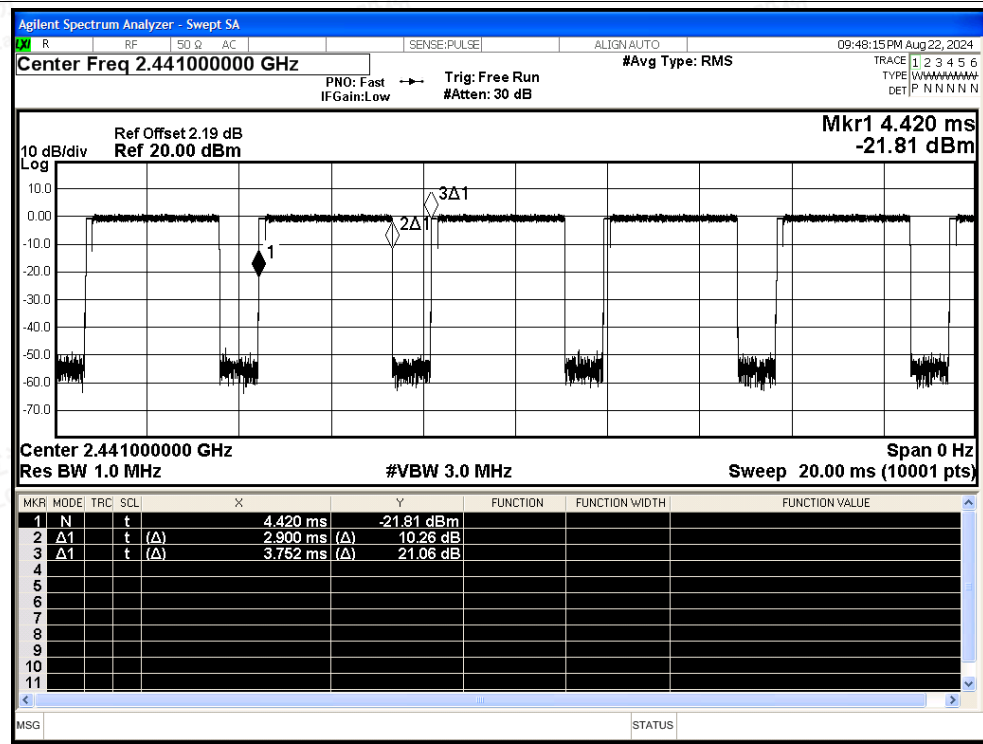
Scan code to check authenticity



Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

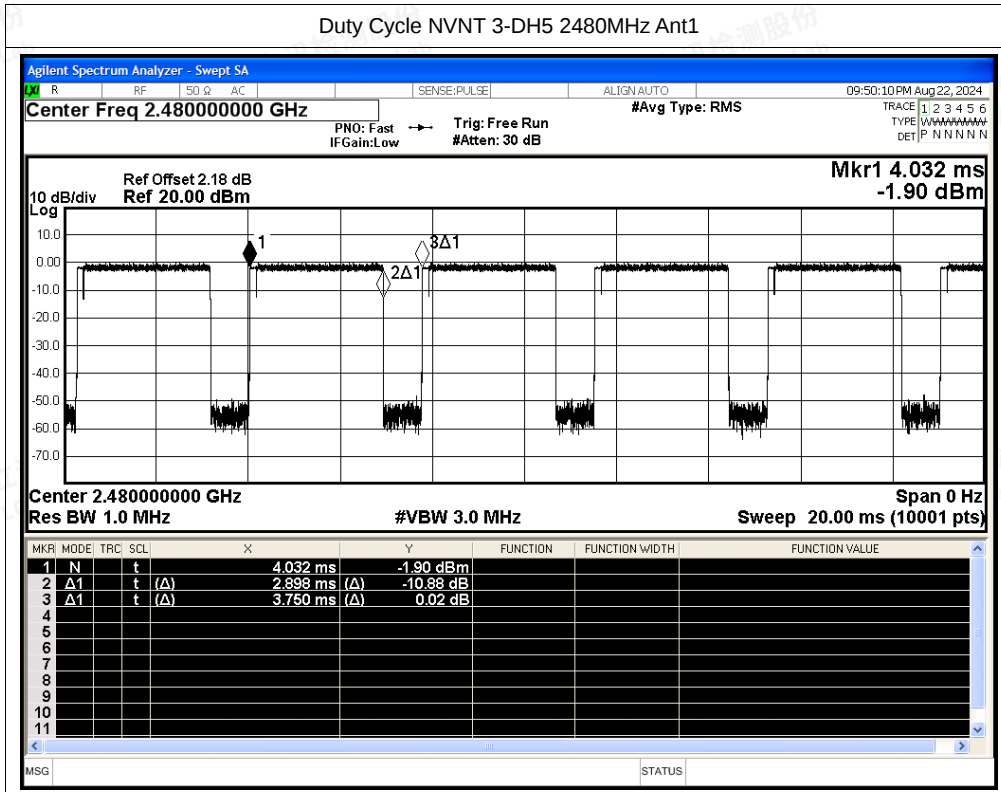


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A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.57	3.5	-	47.19	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.37	3.5	1.1	40.49	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2336.592	-47.66	3.5	-	51.10	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2373.456	-57.84	3.5	1.1	42.02	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.41	3.5	-	48.35	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.97	3.5	1.1	41.89	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.12	3.5	-	49.64	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.5	3.5	1.1	42.36	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2498.32	-46.74	3.5	-	52.02	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2498.632	-57.2	3.5	1.1	42.66	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.54	3.5	-	49.22	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.97	3.5	1.1	41.89	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.43	3.5	-	48.33	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59.02	3.5	1.12	40.86	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2341.296	-47.59	3.5	-	51.17	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2386.512	-57.4	3.5	1.12	42.48	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.11	3.5	-	47.65	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.76	3.5	1.12	41.12	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.14	3.5	-	48.62	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.16	3.5	1.12	41.72	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2499.472	-47.15	3.5	-	51.61	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.472	-57.25	3.5	1.12	42.63	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51	3.5	-	47.76	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.02	3.5	1.12	41.86	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.44	3.5	-	48.32	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.58	3.5	1.12	41.30	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2373.456	-47.67	3.5	-	51.09	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2371.248	-57.51	3.5	1.12	42.37	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.99	3.5	-	47.77	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.37	3.5	1.12	41.51	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-51.07	3.5	-	47.69	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.26	3.5	1.12	41.62	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2497.024	-46.95	3.5	-	51.81	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2494.408	-56.99	3.5	1.12	42.89	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50	3.5	-	48.76	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.09	3.5	1.12	41.79	Average	54	Pass



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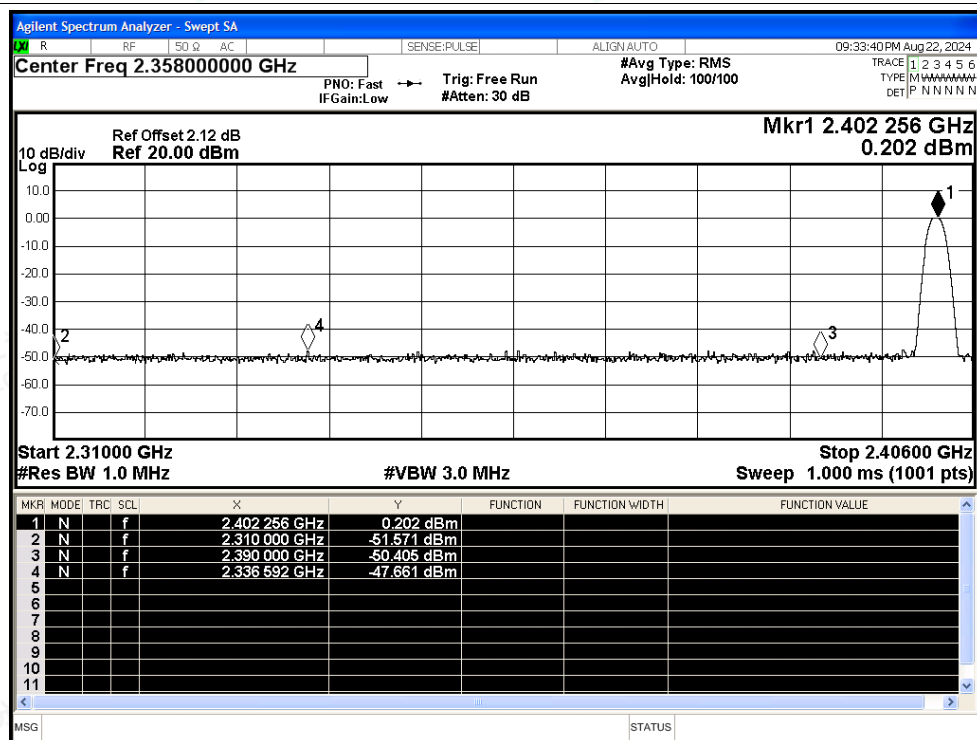
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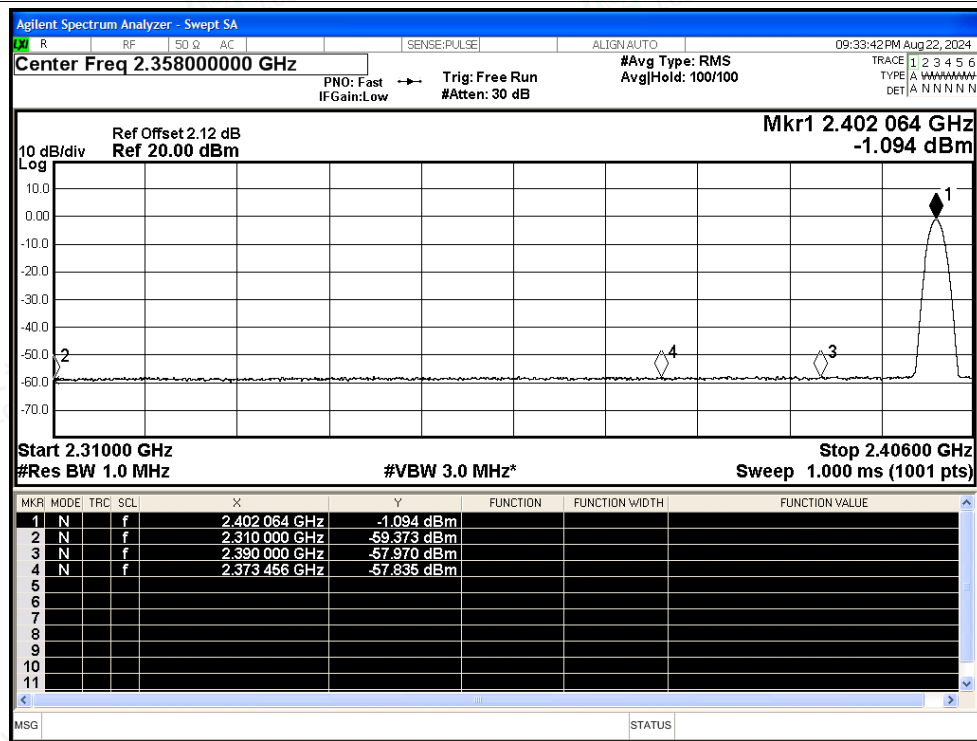


Test Graphs

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



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

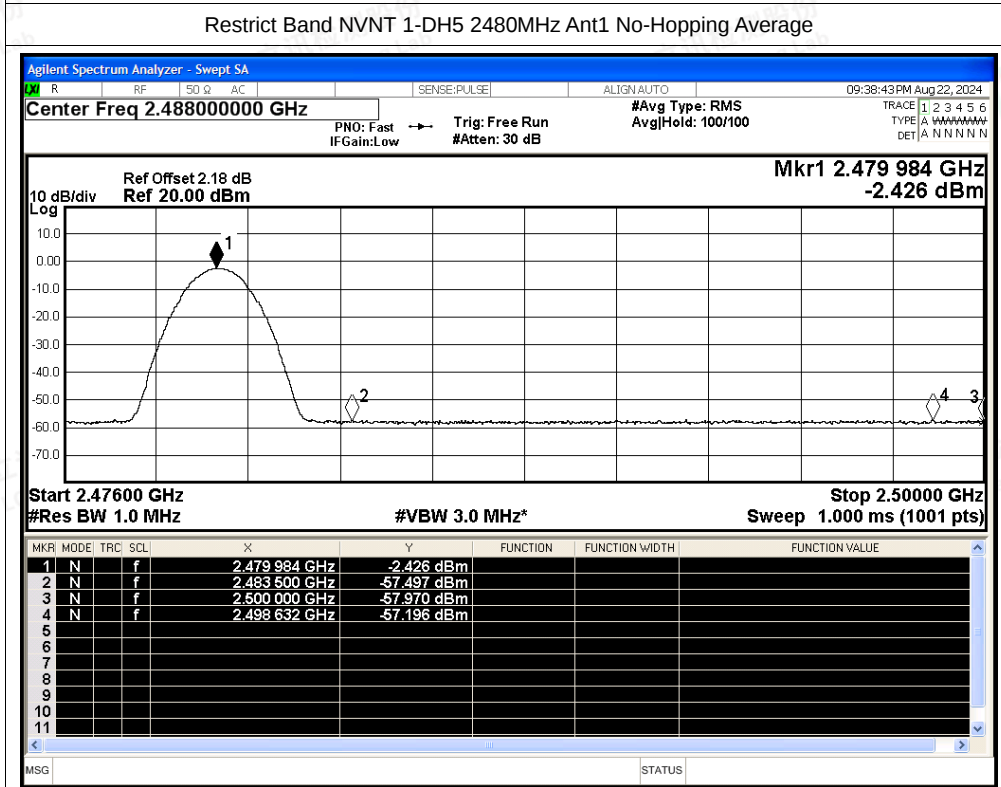
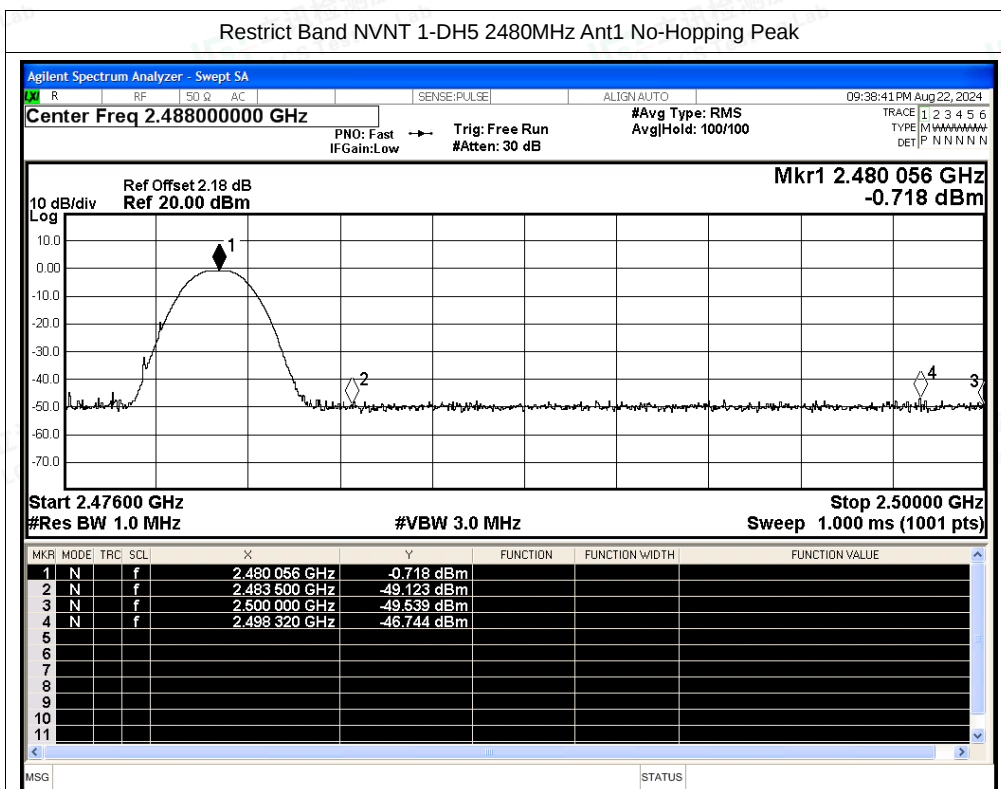


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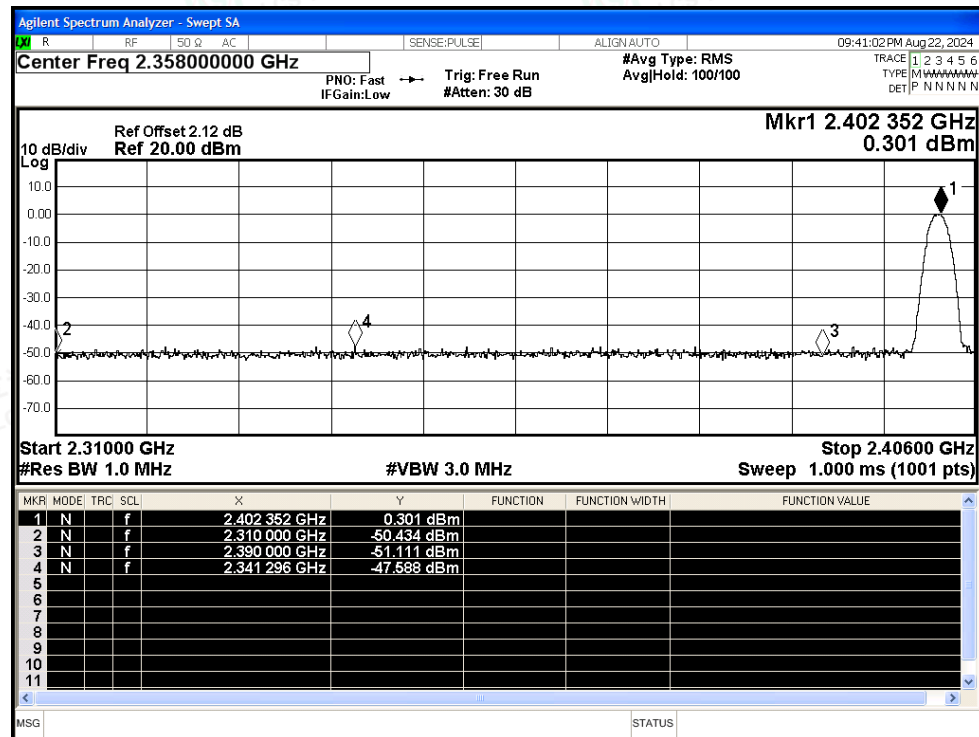
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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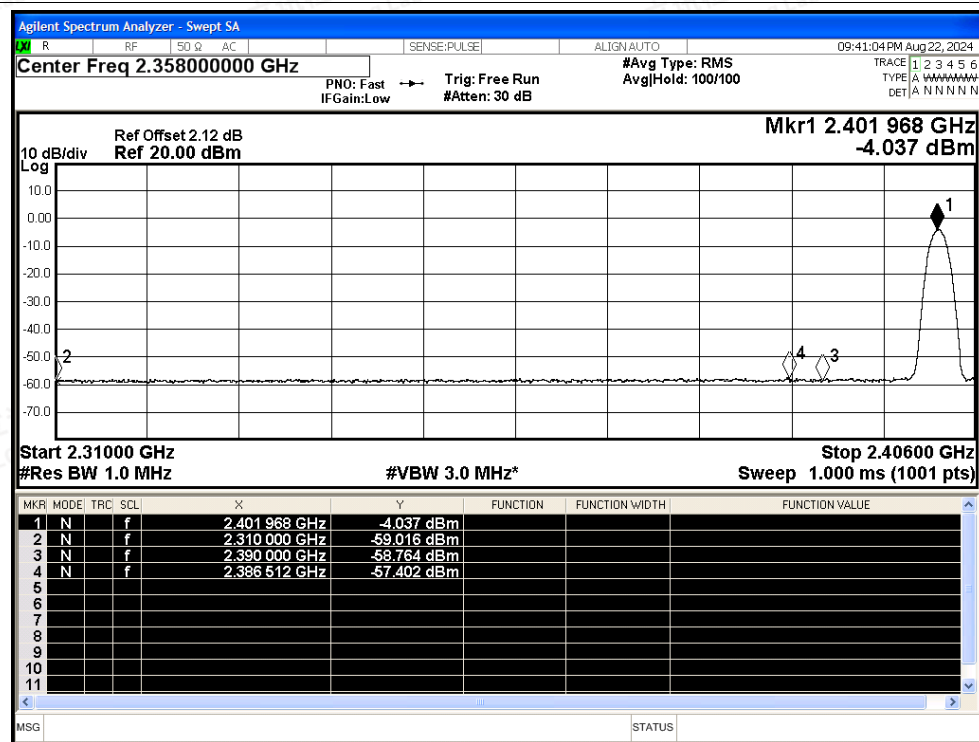




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

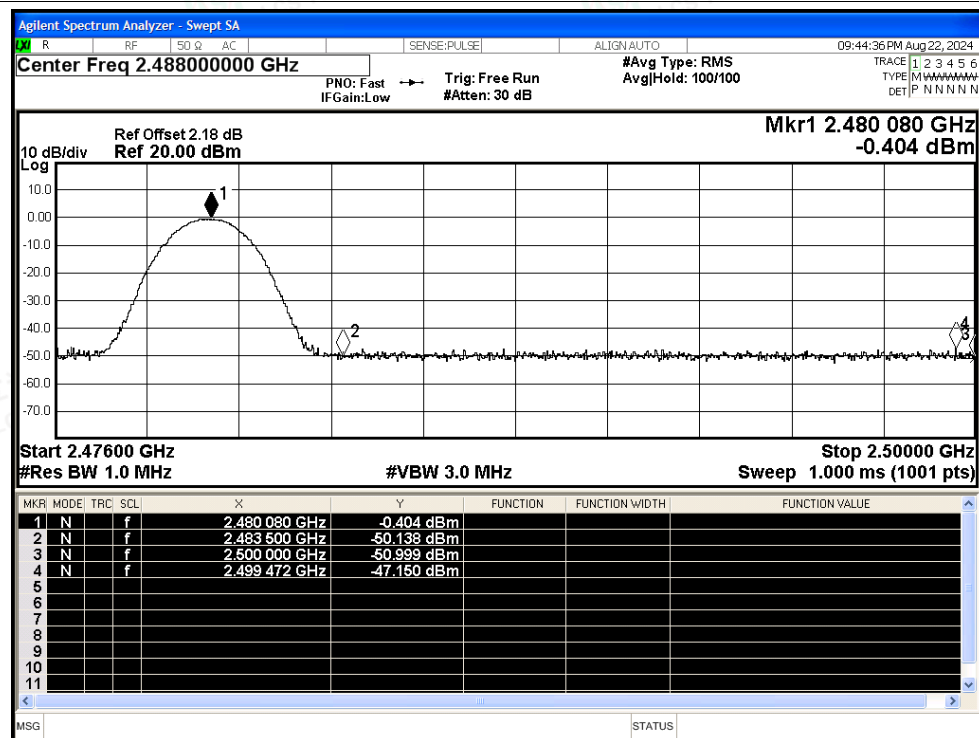
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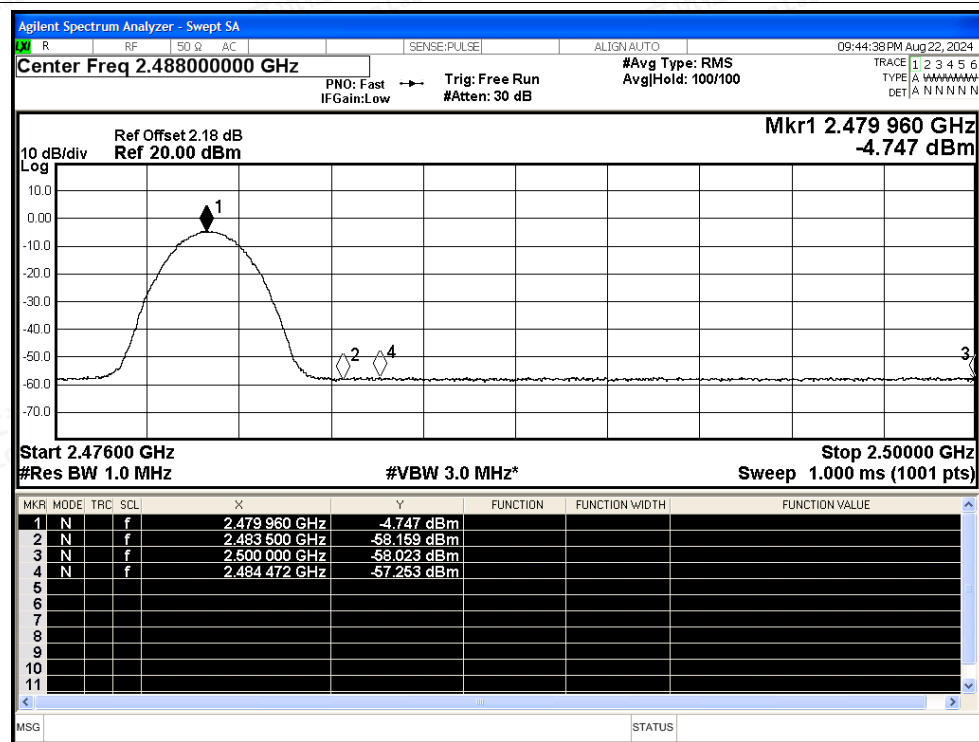
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

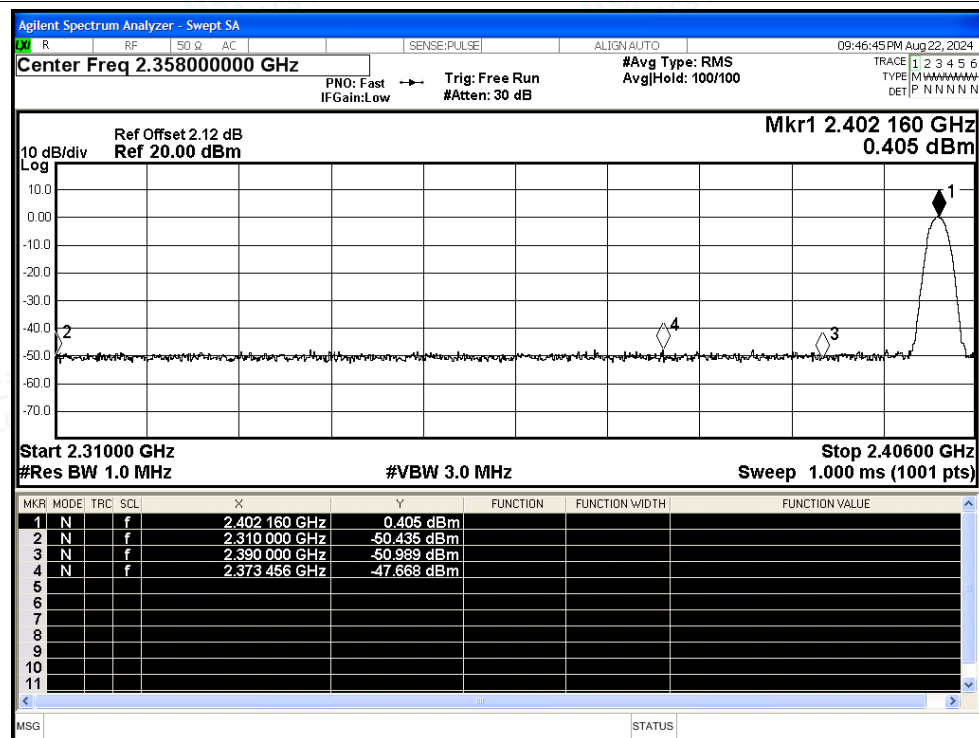
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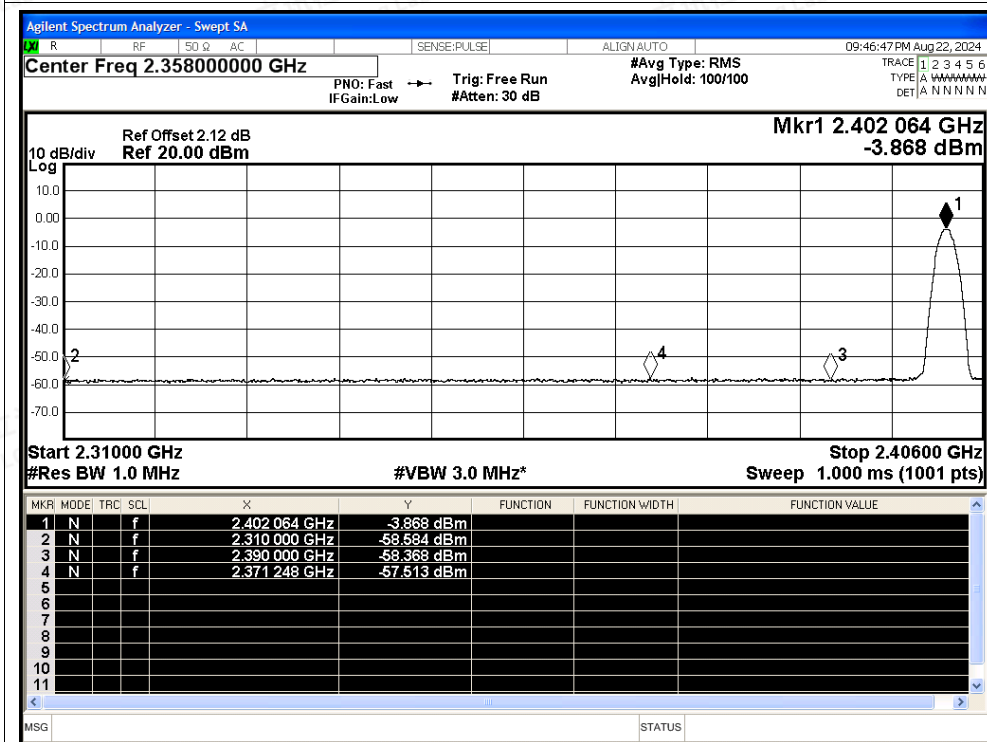
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

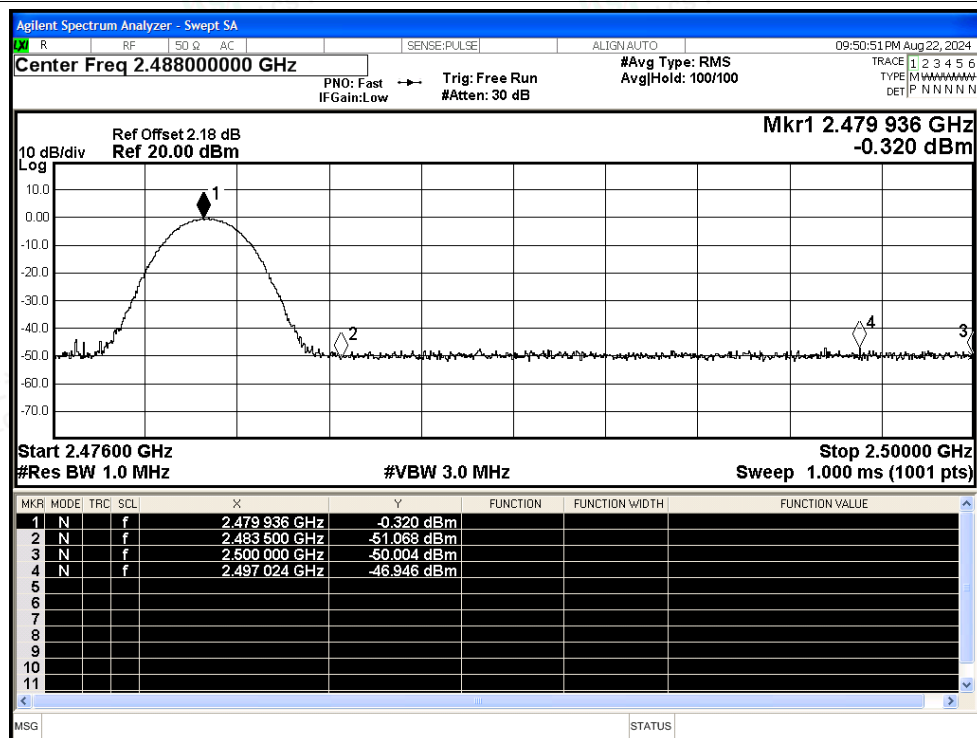
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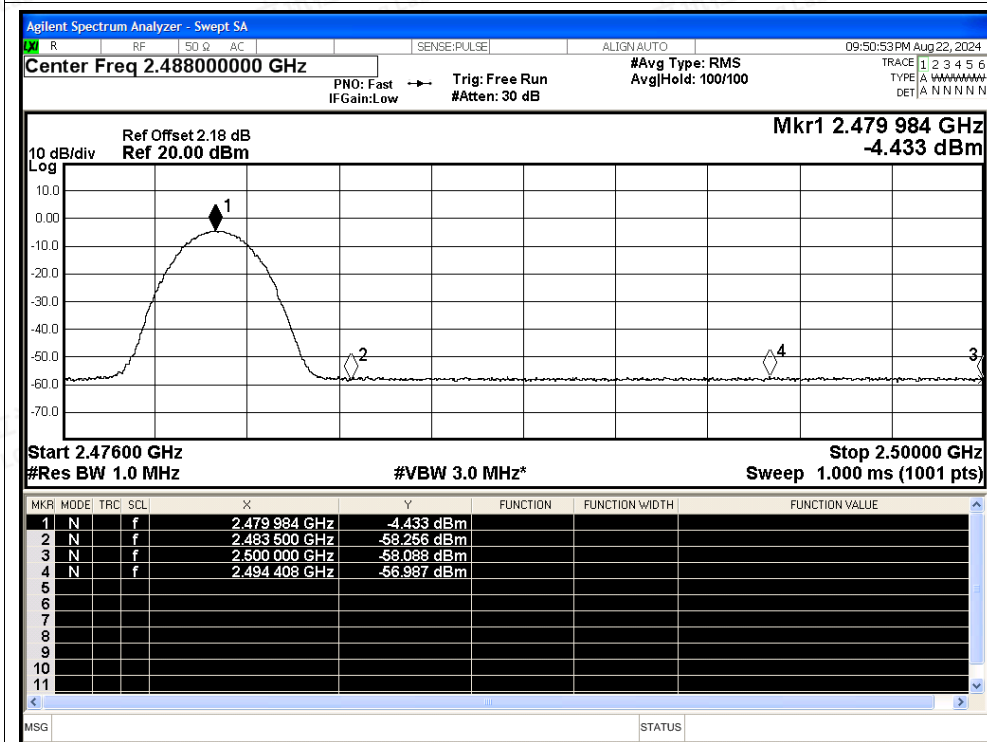
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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