



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Turntable Player

Test Model: SN15

Environmental Conditions

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





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.009	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.952	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.93	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.288	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.304	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.278	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.298	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.311	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.299	N/A	Pass



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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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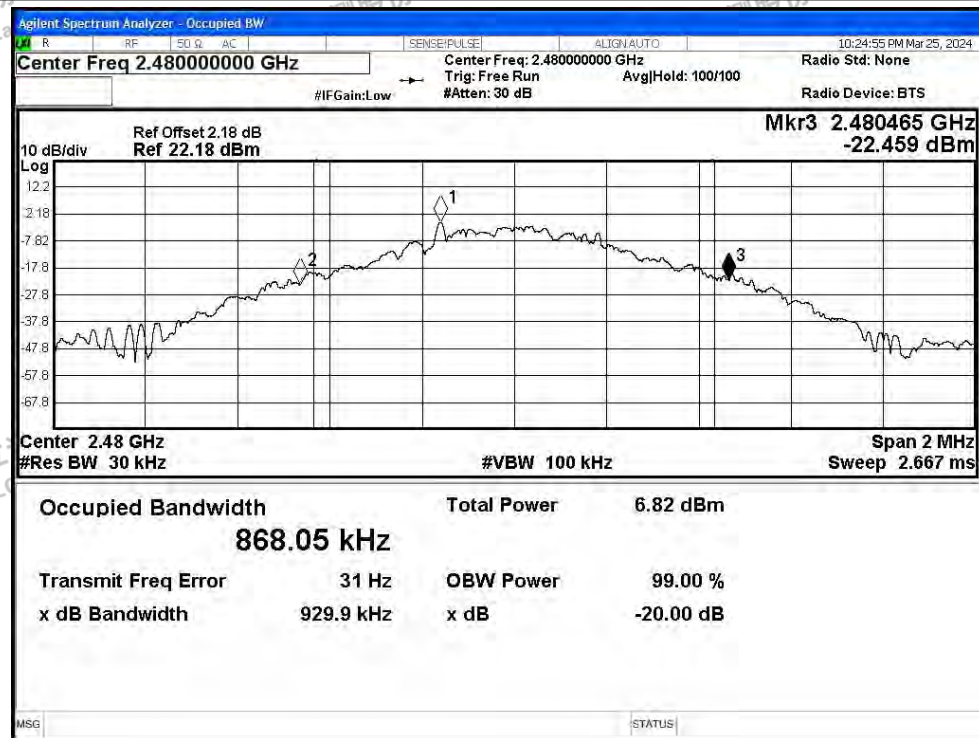
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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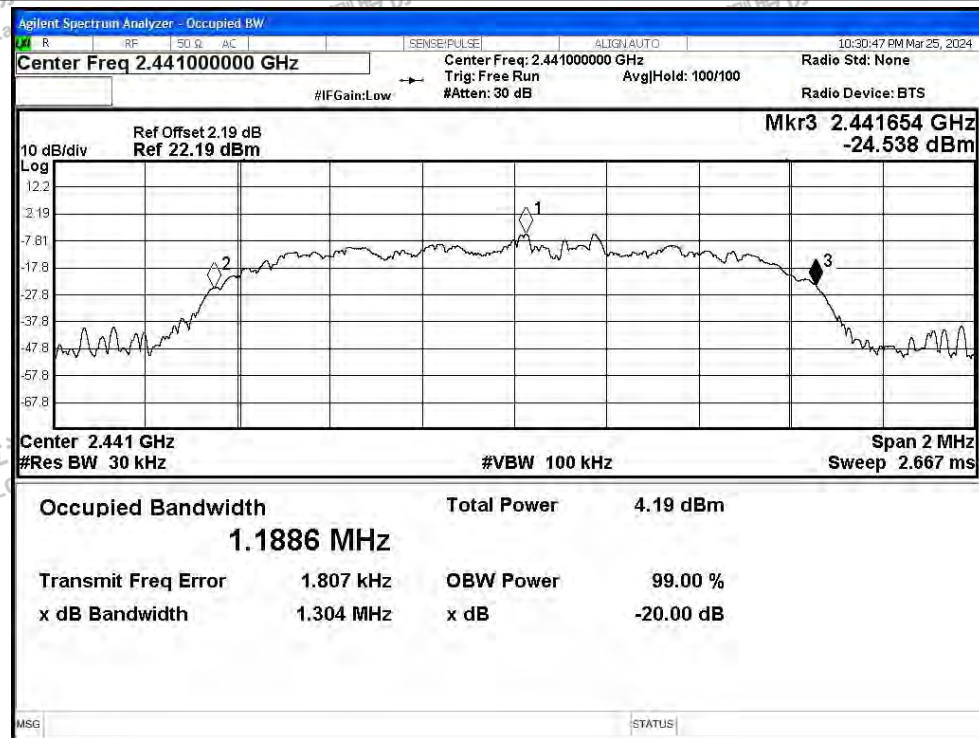
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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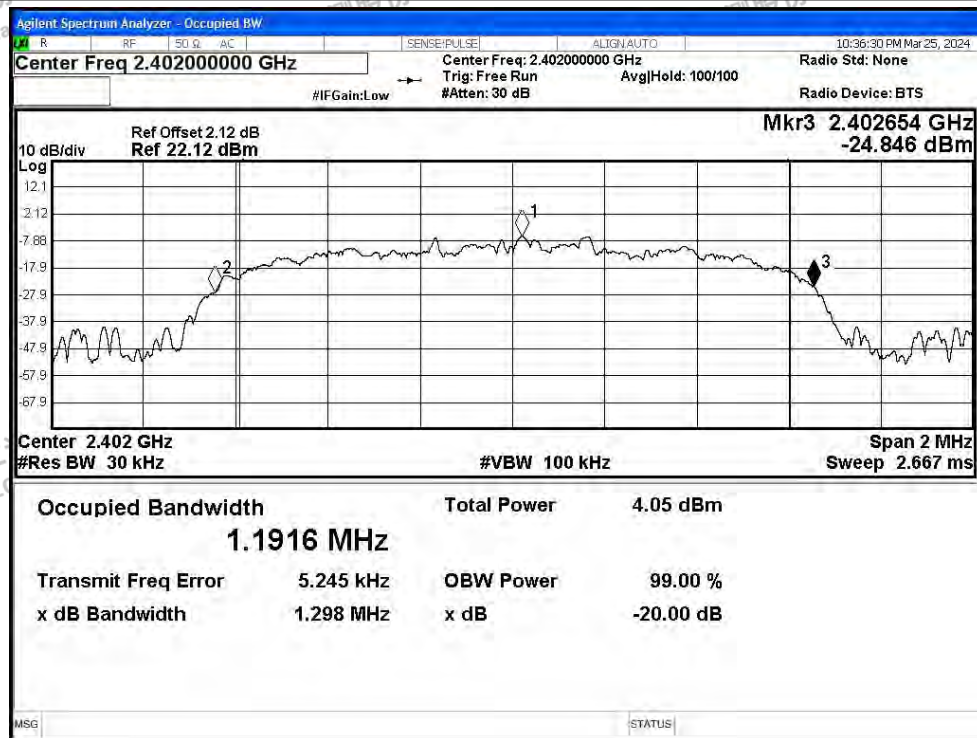
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

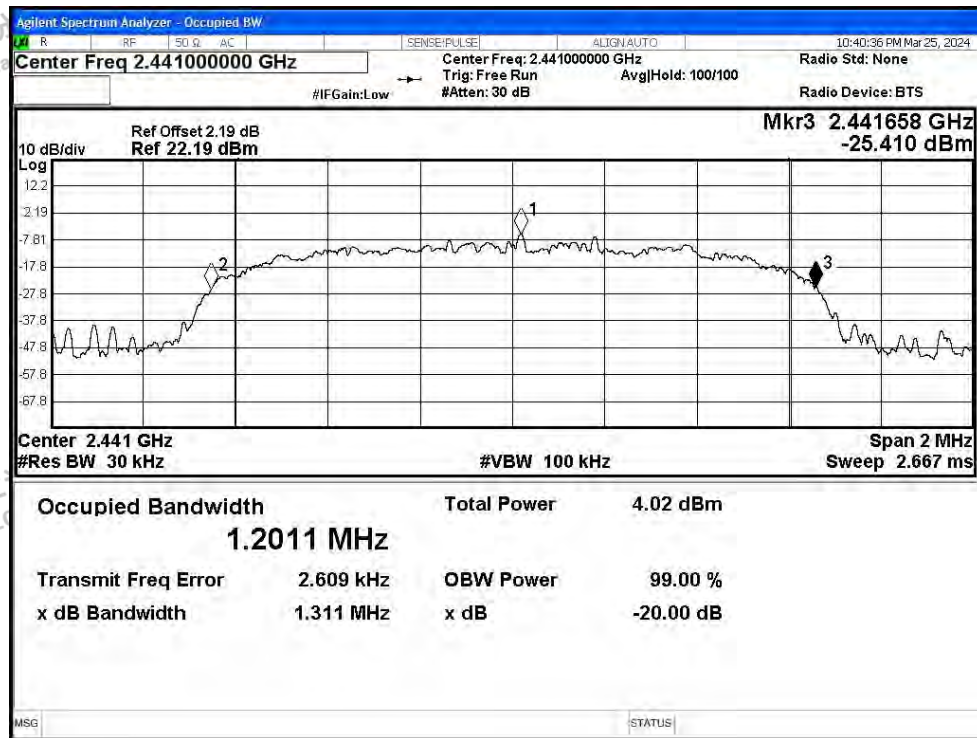
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

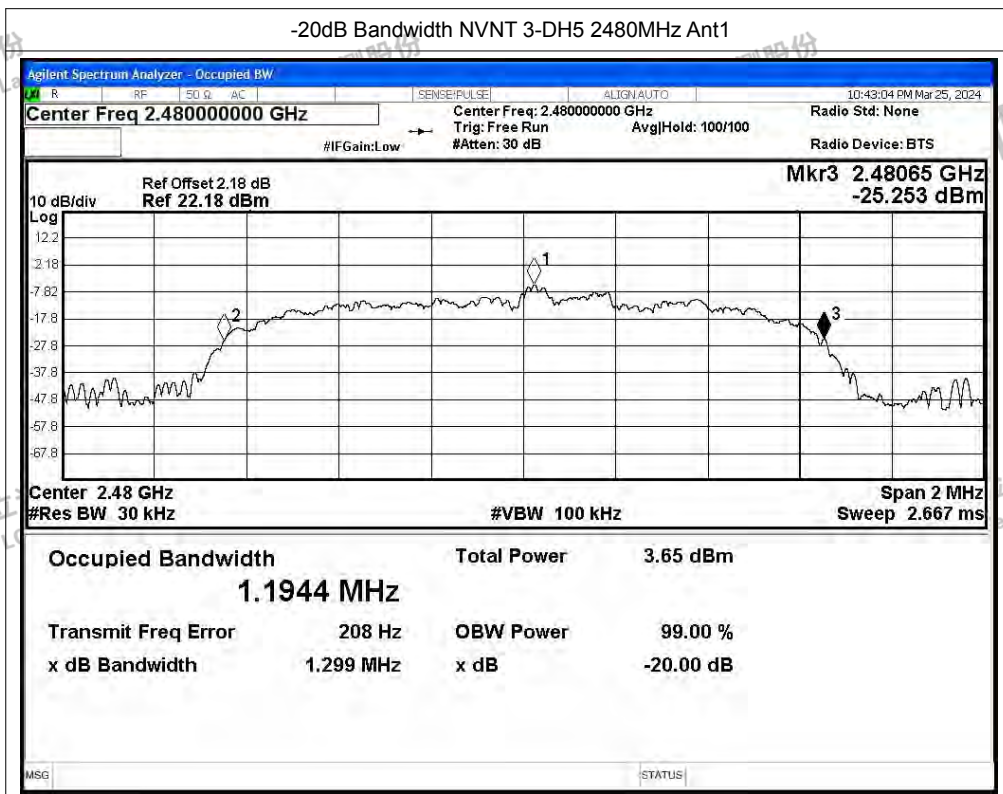


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.87	21	Pass
NVNT	1-DH5	2441	Ant1	-0.87	21	Pass
NVNT	1-DH5	2480	Ant1	0.55	21	Pass
NVNT	2-DH5	2402	Ant1	0.91	21	Pass
NVNT	2-DH5	2441	Ant1	-0.04	21	Pass
NVNT	2-DH5	2480	Ant1	-0.88	21	Pass
NVNT	3-DH5	2402	Ant1	0.18	21	Pass
NVNT	3-DH5	2441	Ant1	0.52	21	Pass
NVNT	3-DH5	2480	Ant1	-0.44	21	Pass



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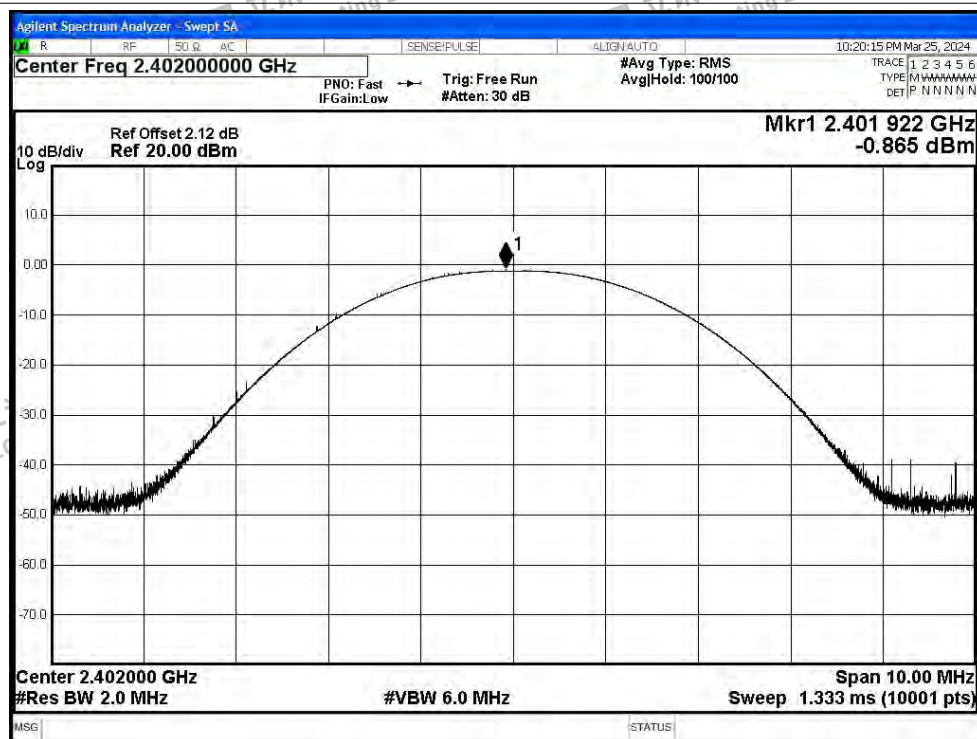
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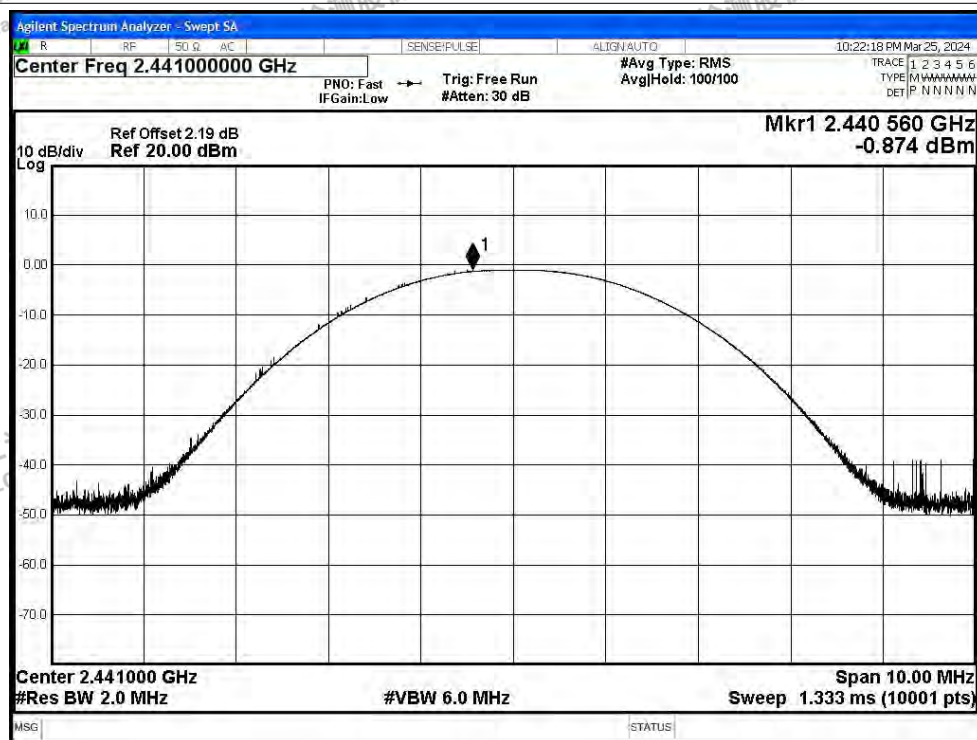


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

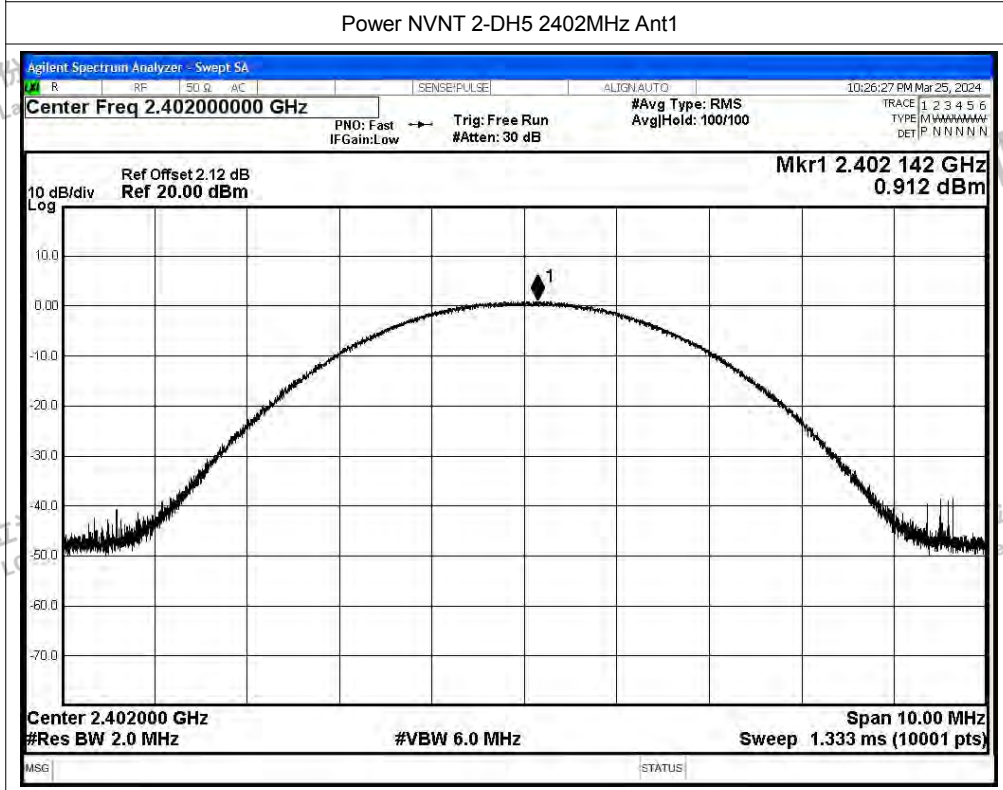
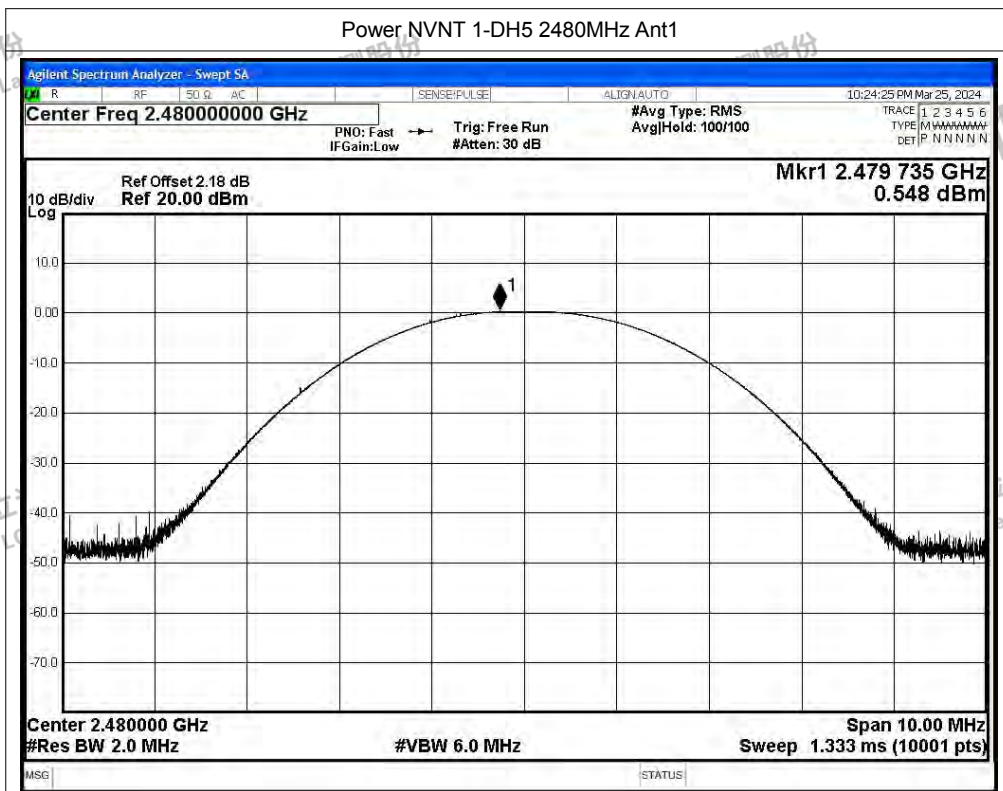


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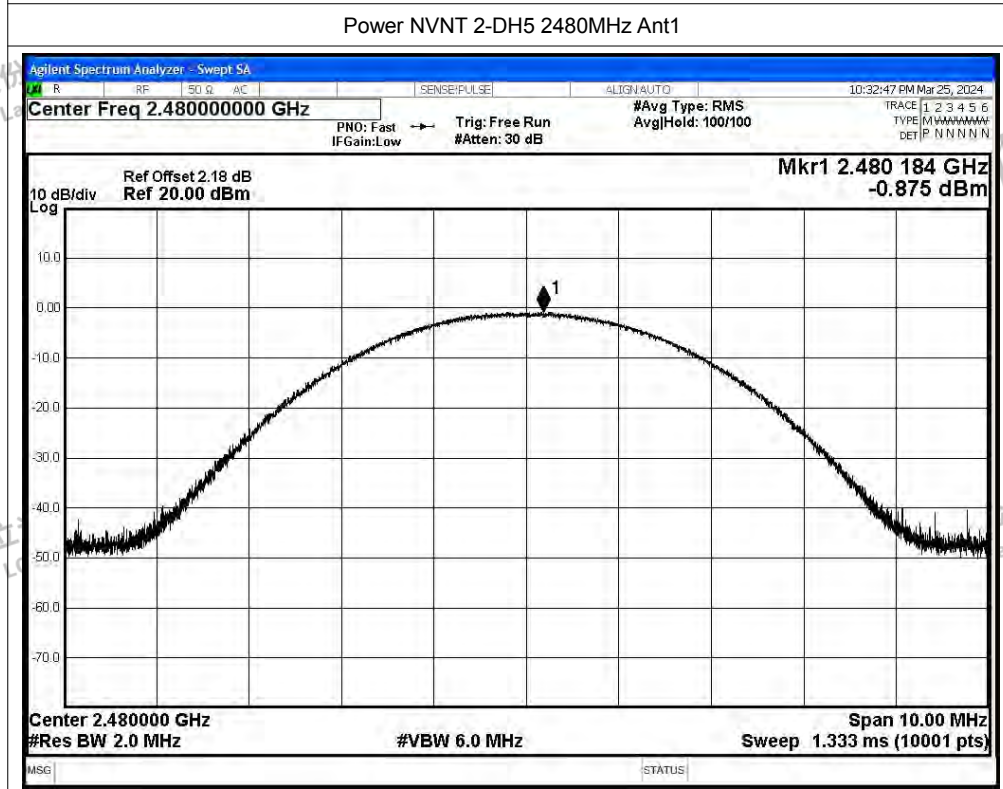
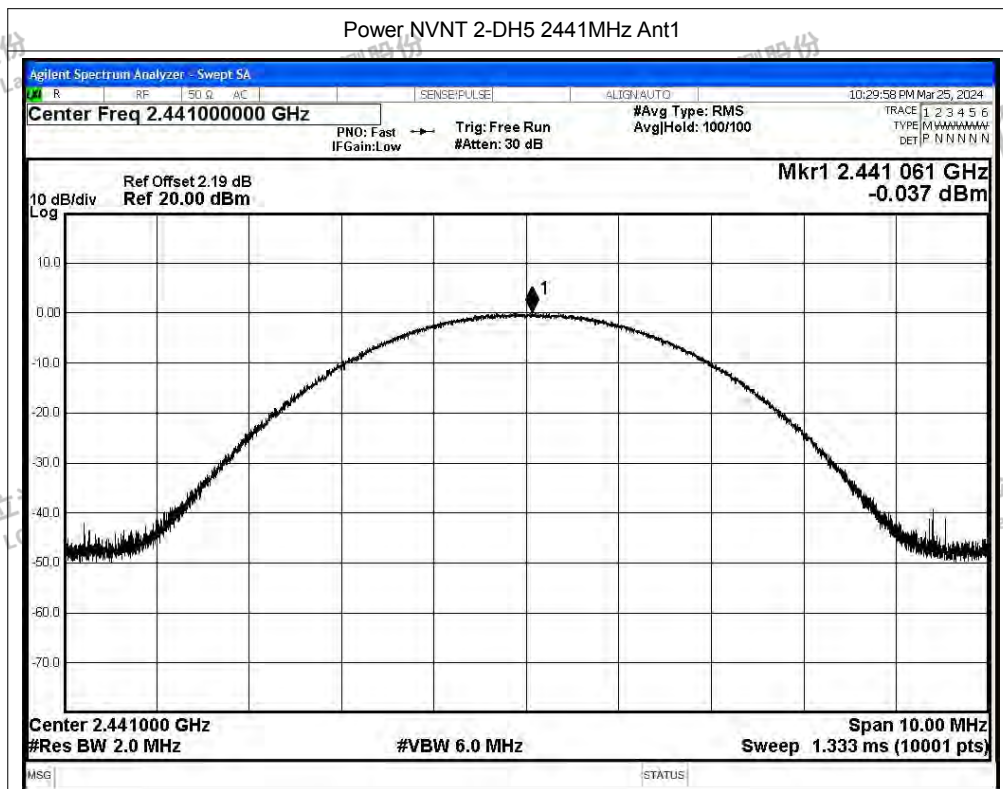


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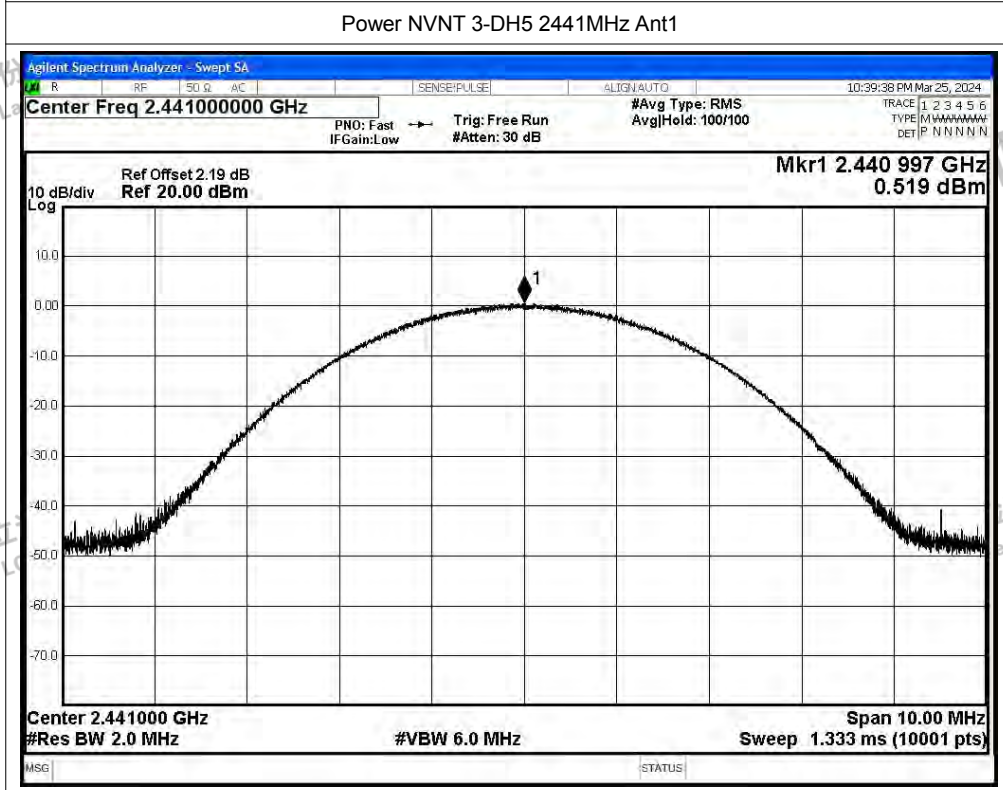
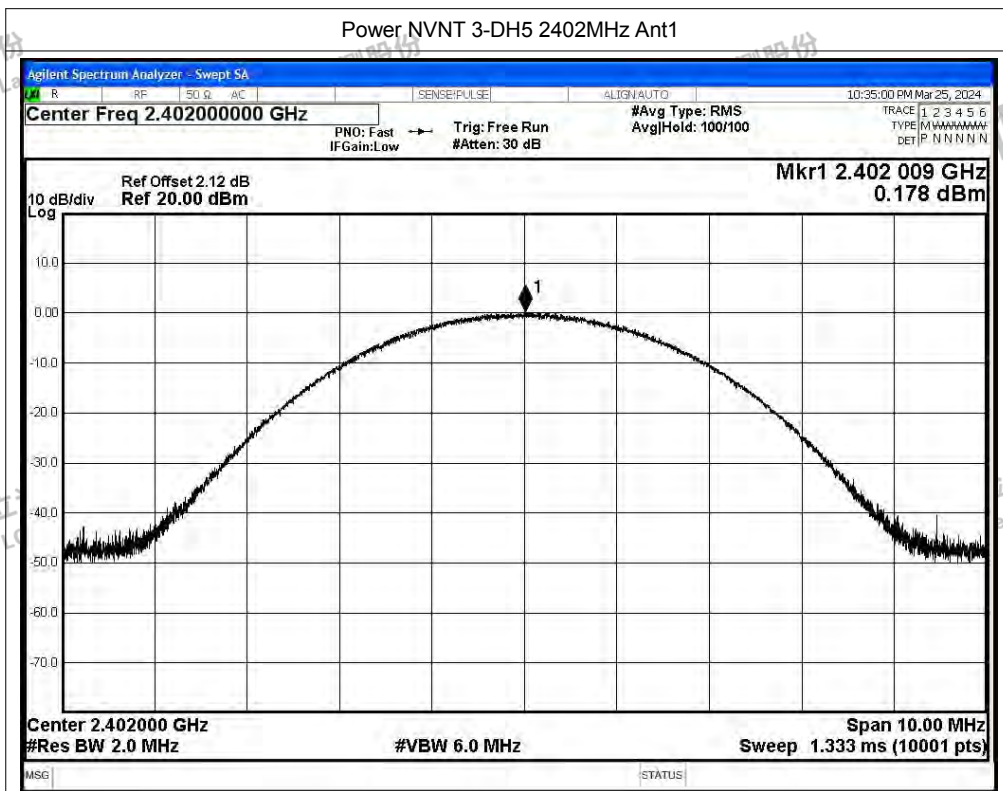


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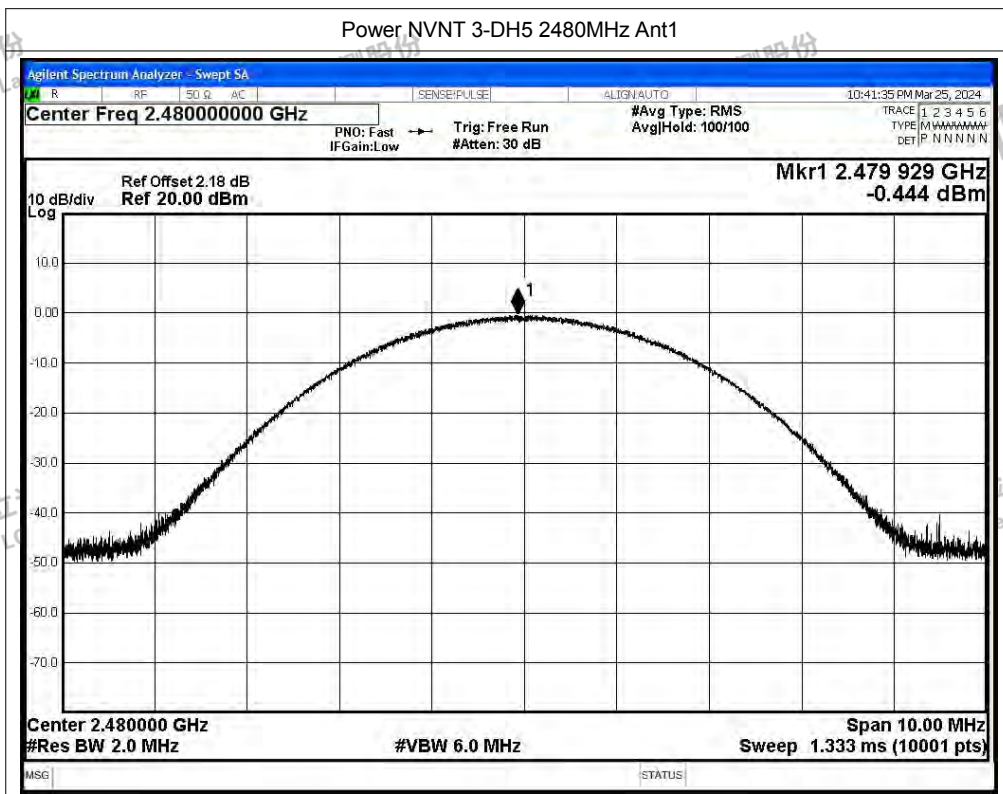


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.022	2402.832	0.81	0.673	Pass
NVNT	2-DH5	Ant1	2402.16	2403.022	0.862	0.869	Pass
NVNT	3-DH5	Ant1	2402.036	2403.164	1.128	0.874	Pass



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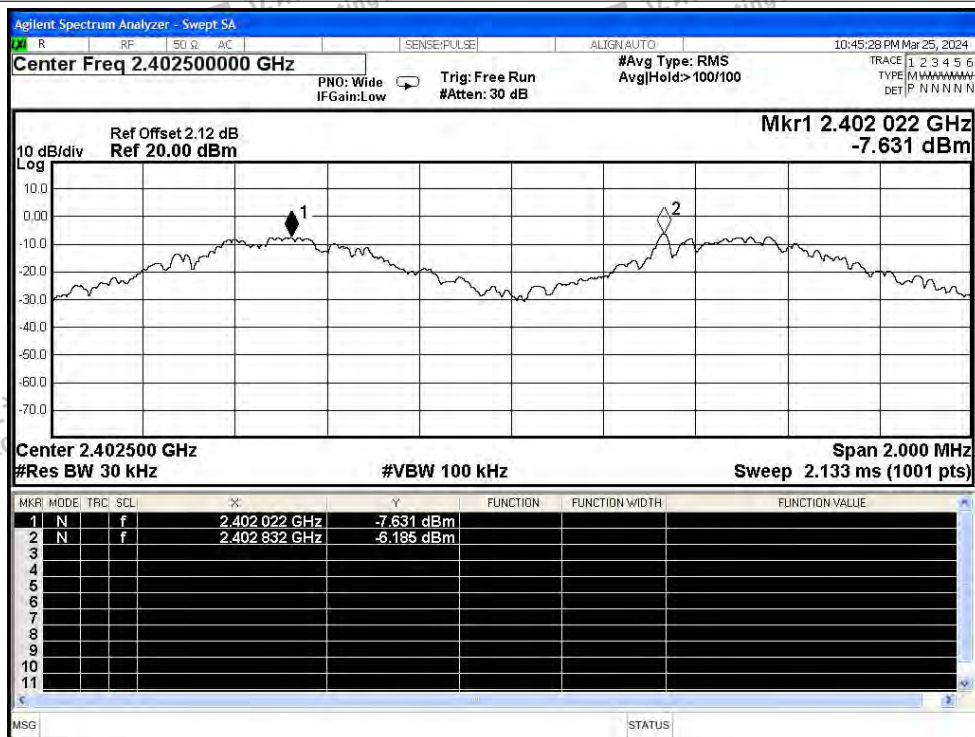
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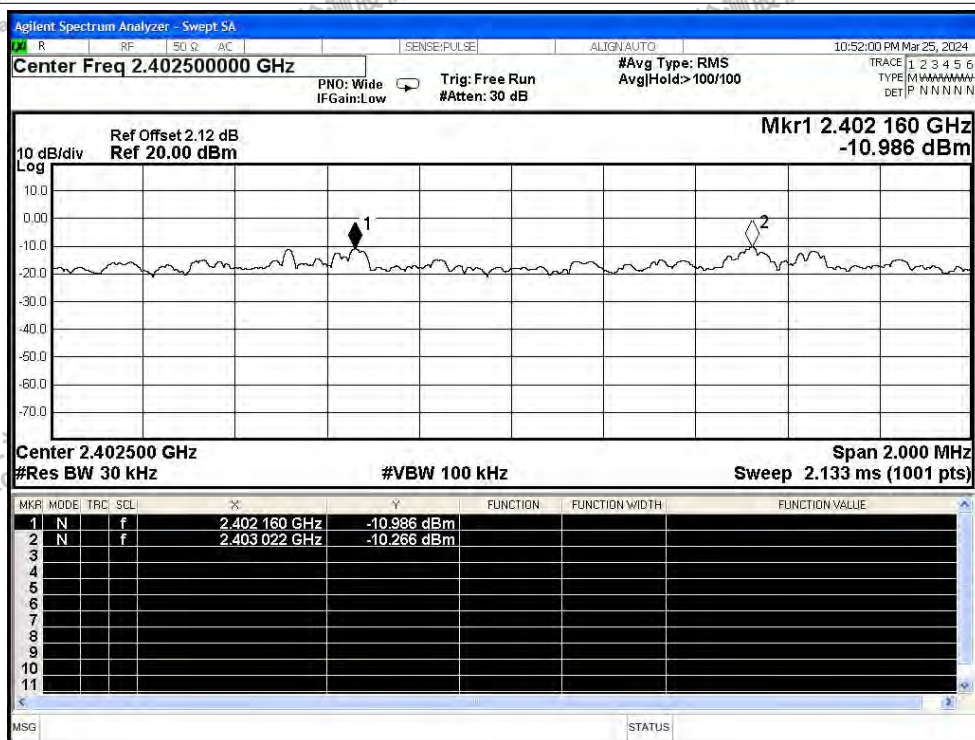


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

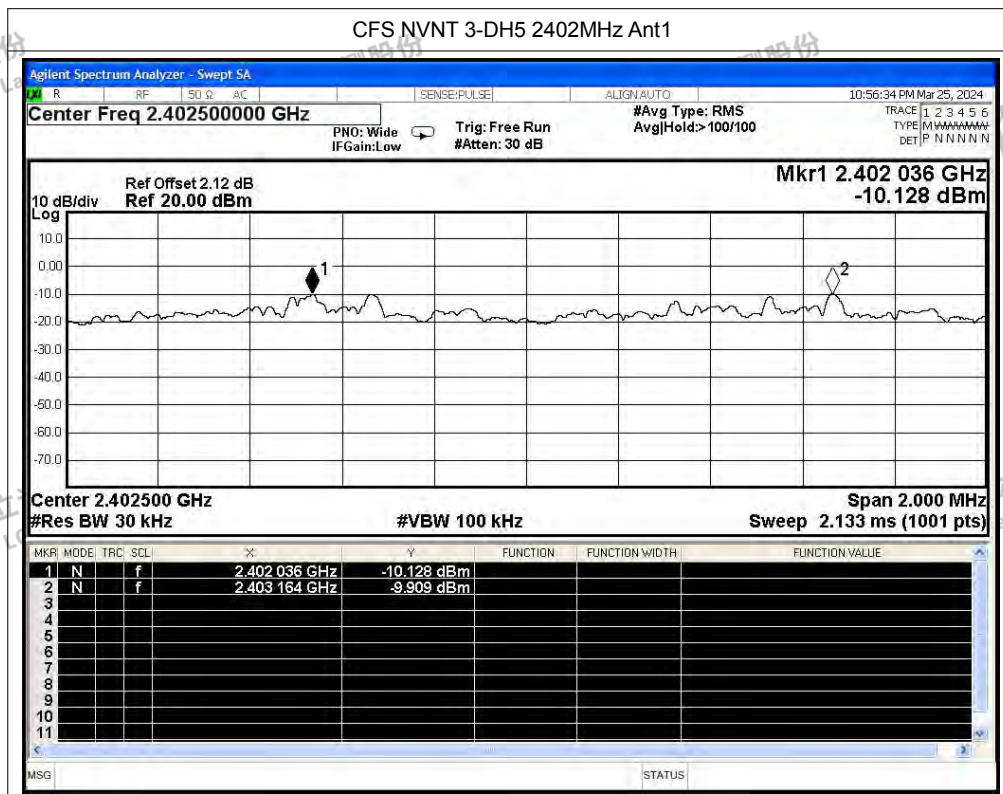


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A.4 Dwell Time

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	0.499	47.405	95	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	310.086	107	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.898	307.188	106	31600	400	Pass



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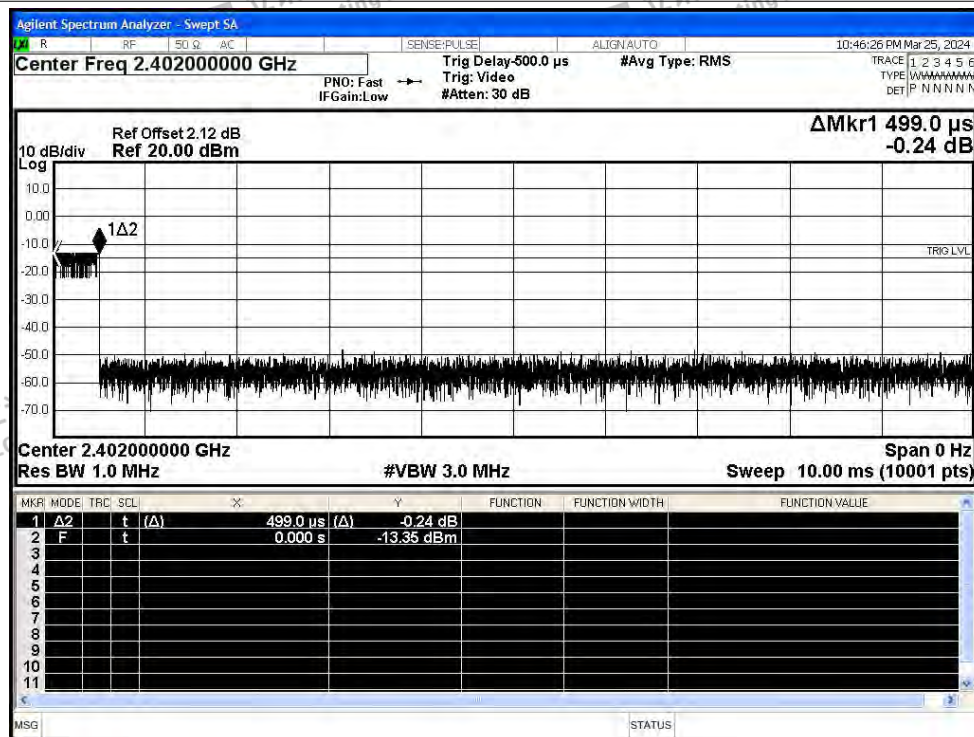
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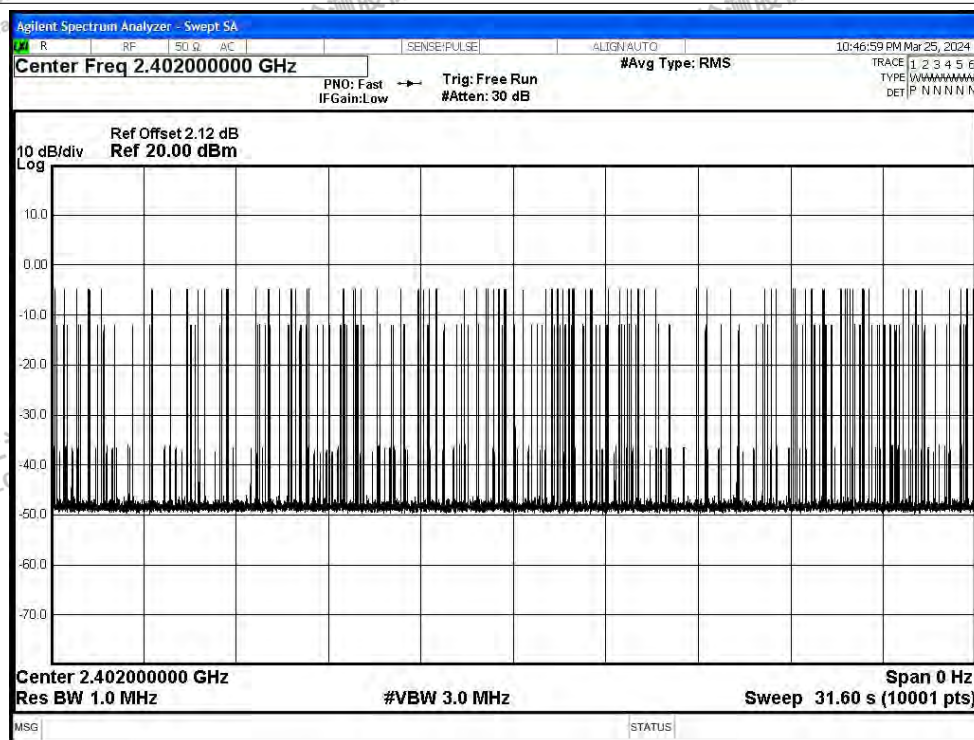


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

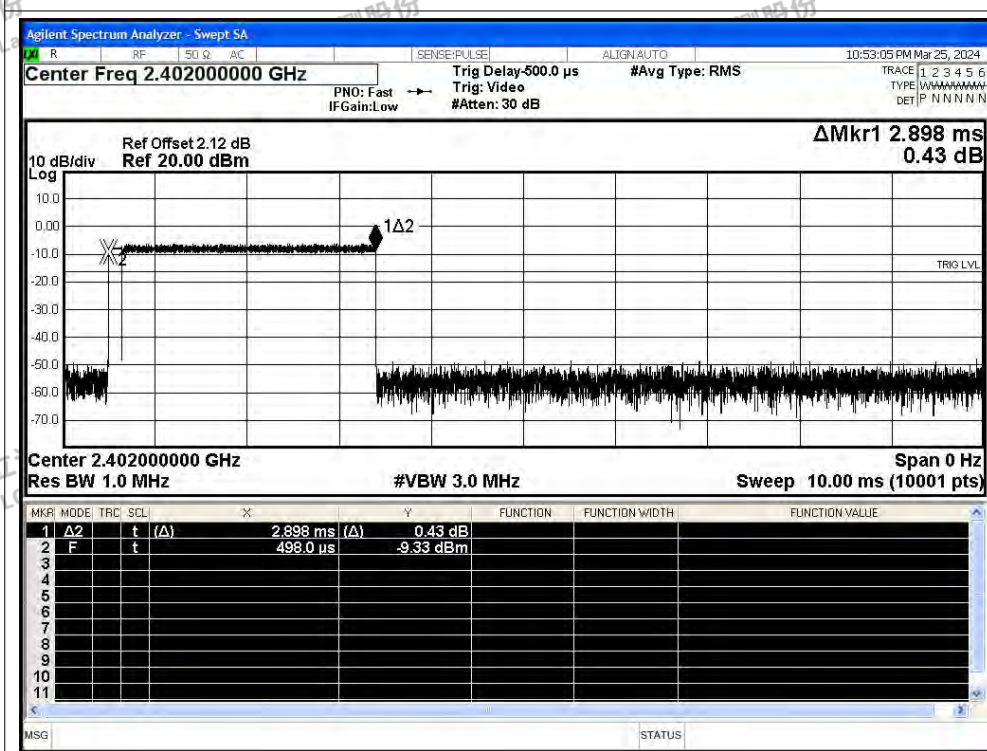
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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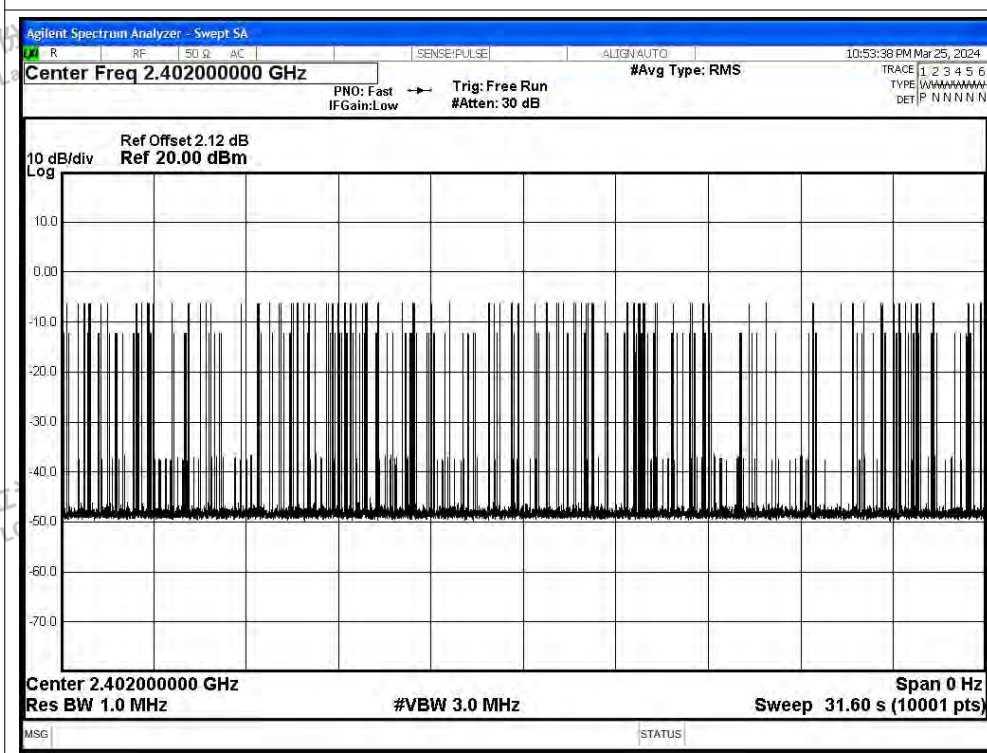
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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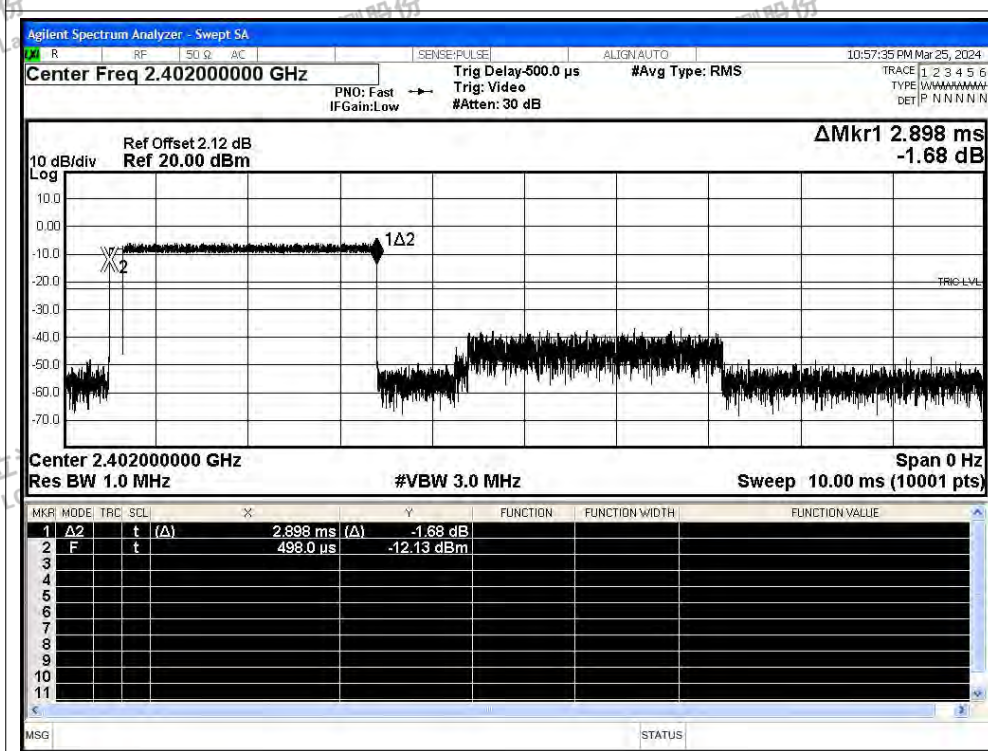
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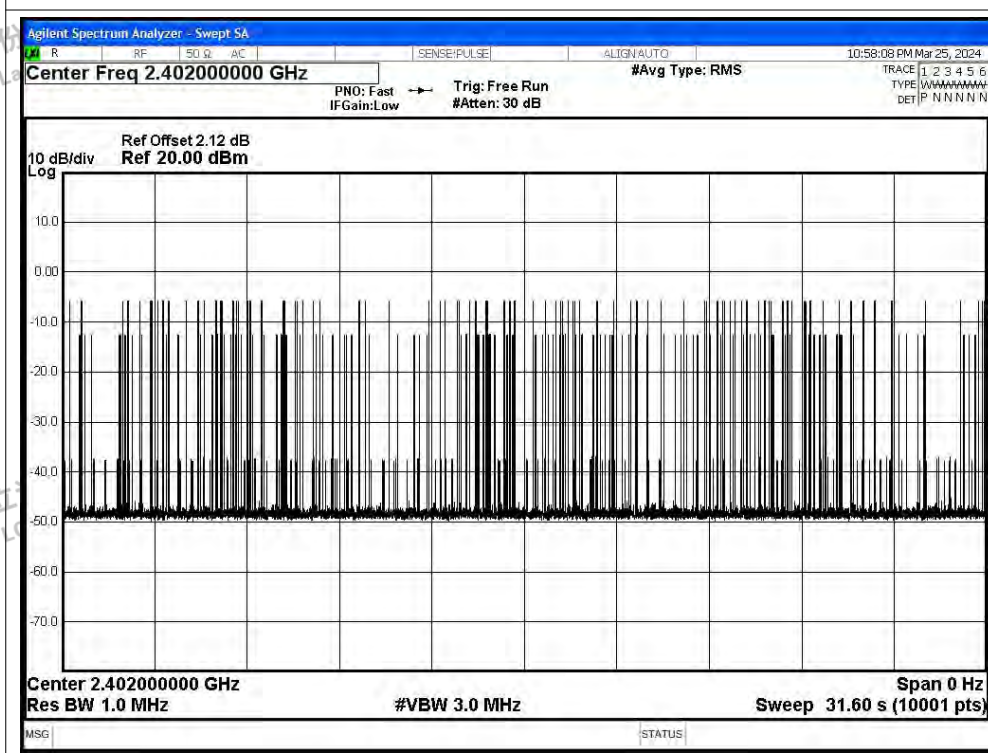
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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



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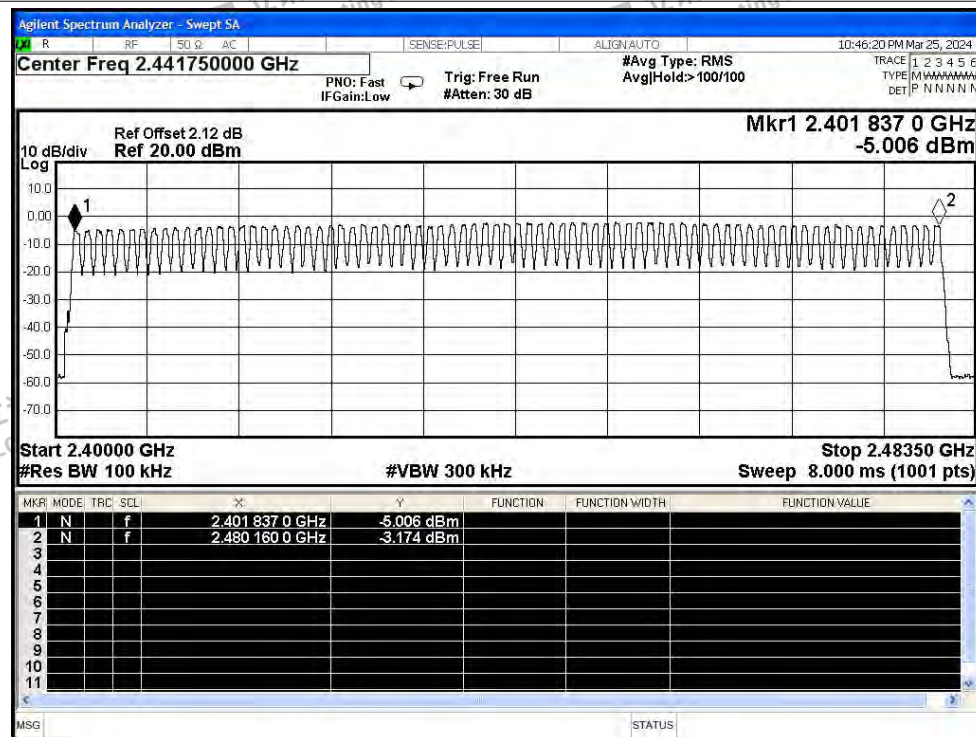
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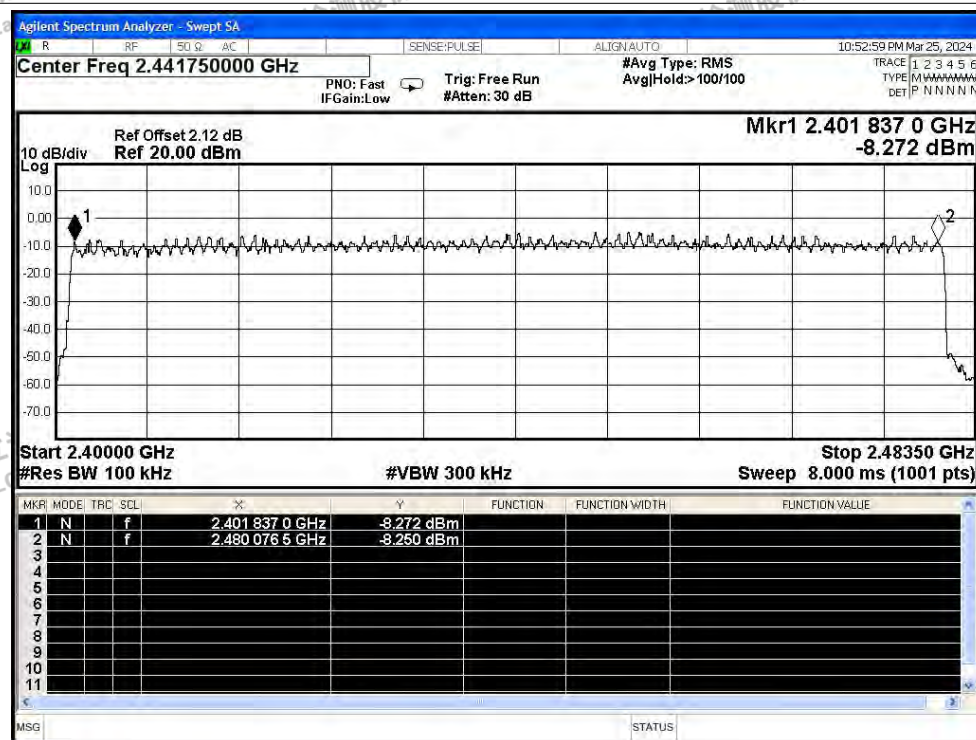


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

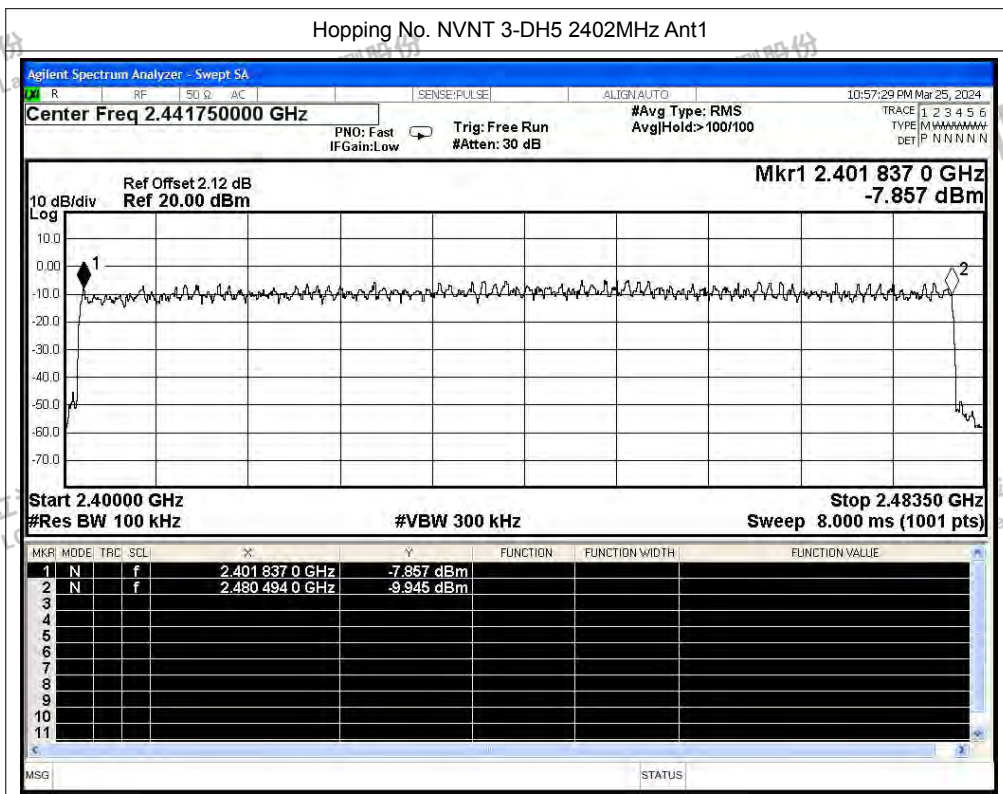


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A.6 Band Edge

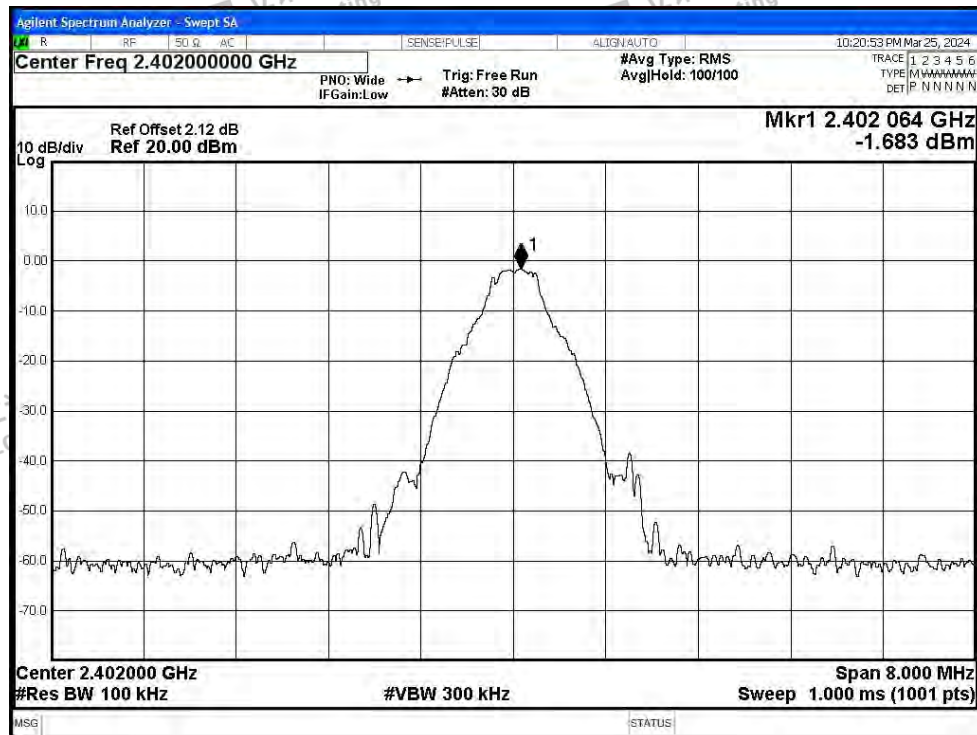
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.25	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.1	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.74	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.24	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.12	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-52.17	-20	Pass



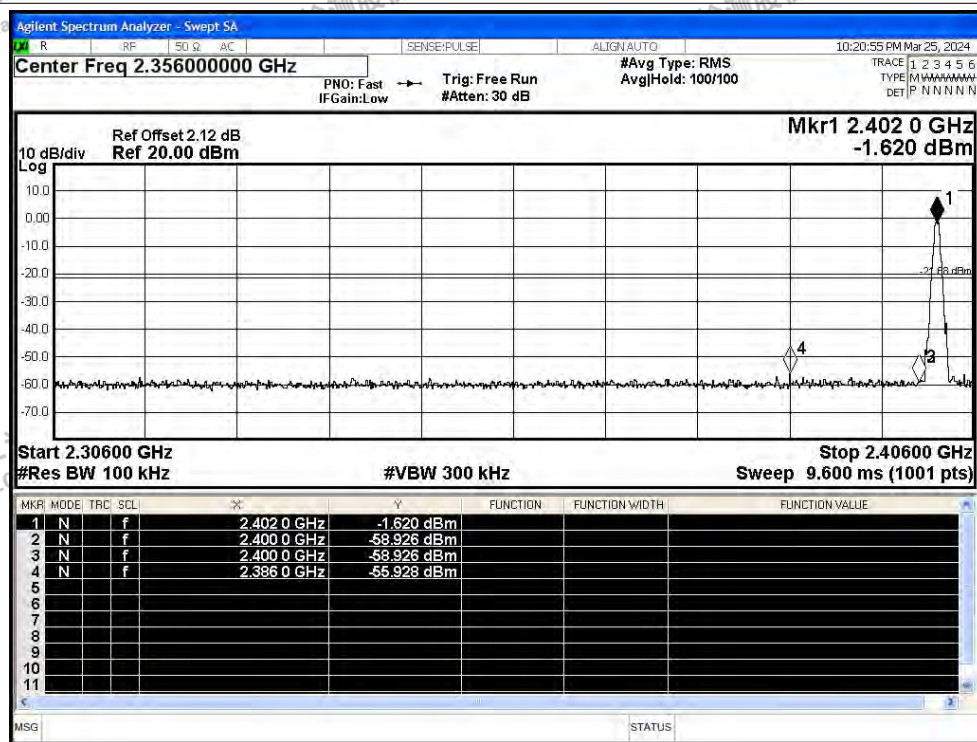


Test Graphs

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



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

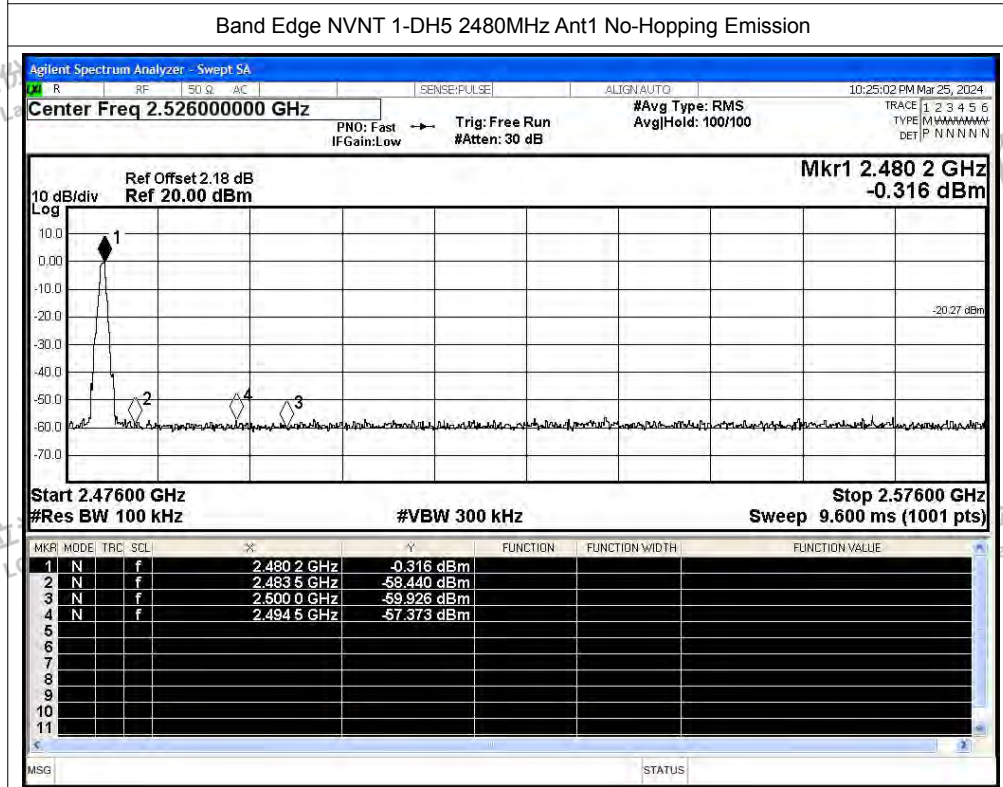
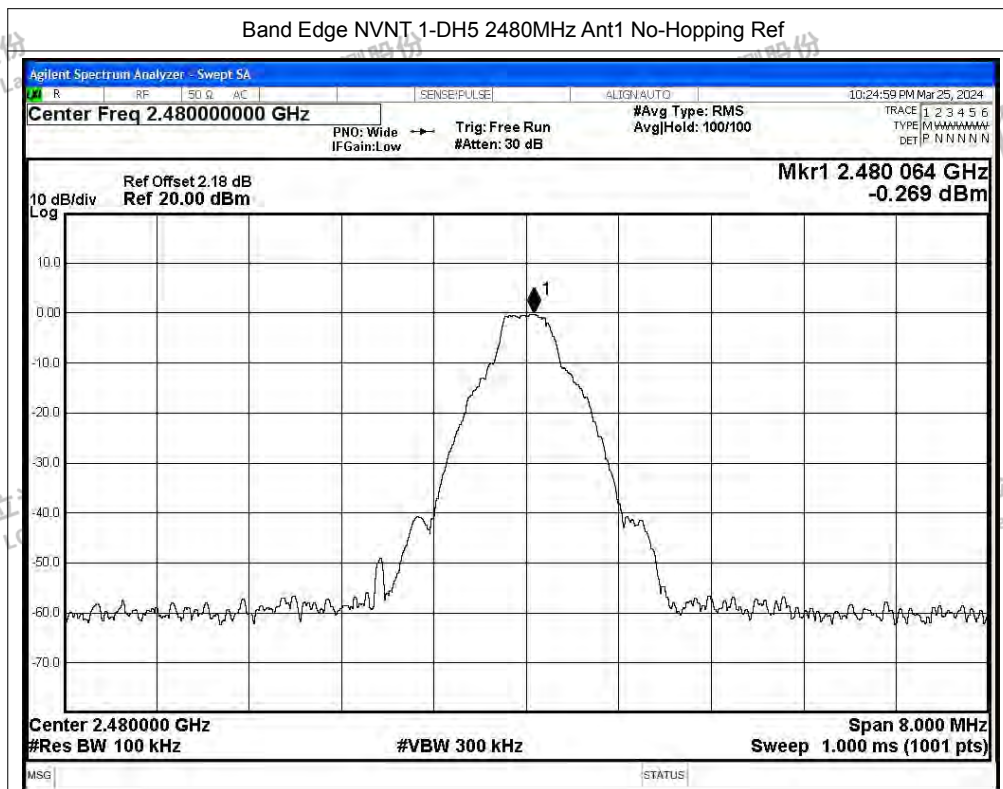


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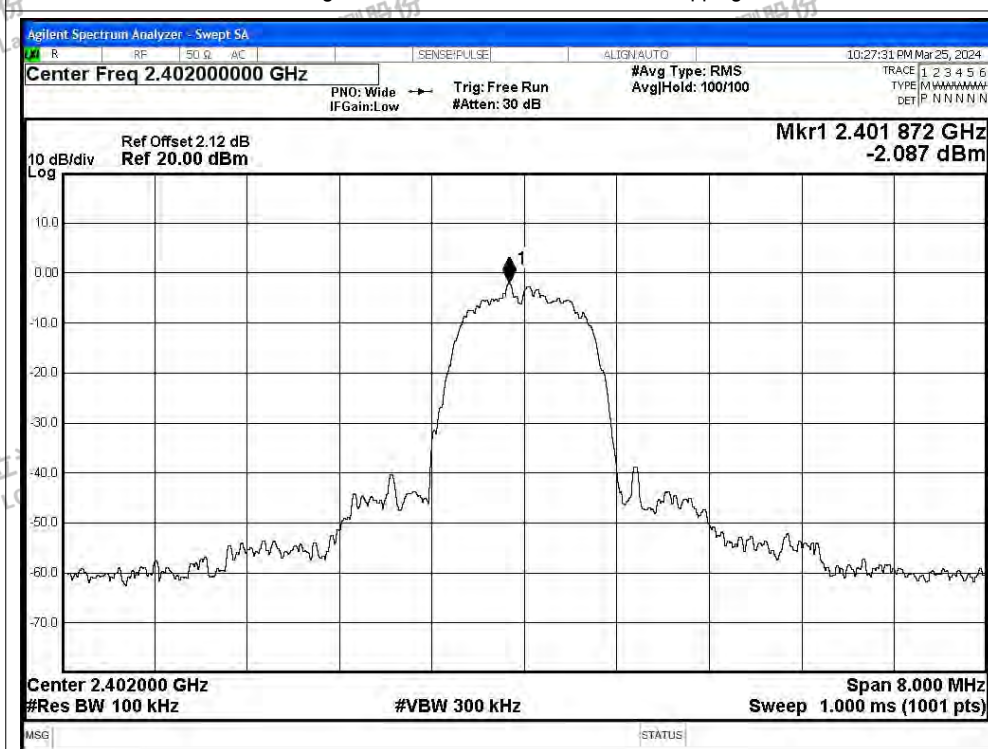
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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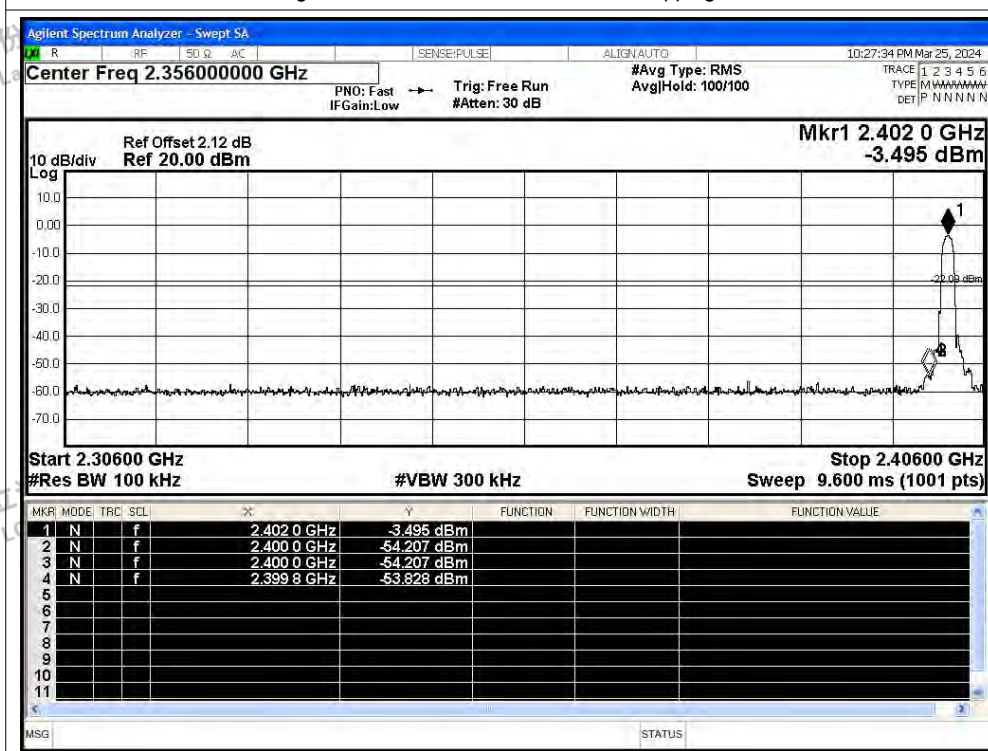
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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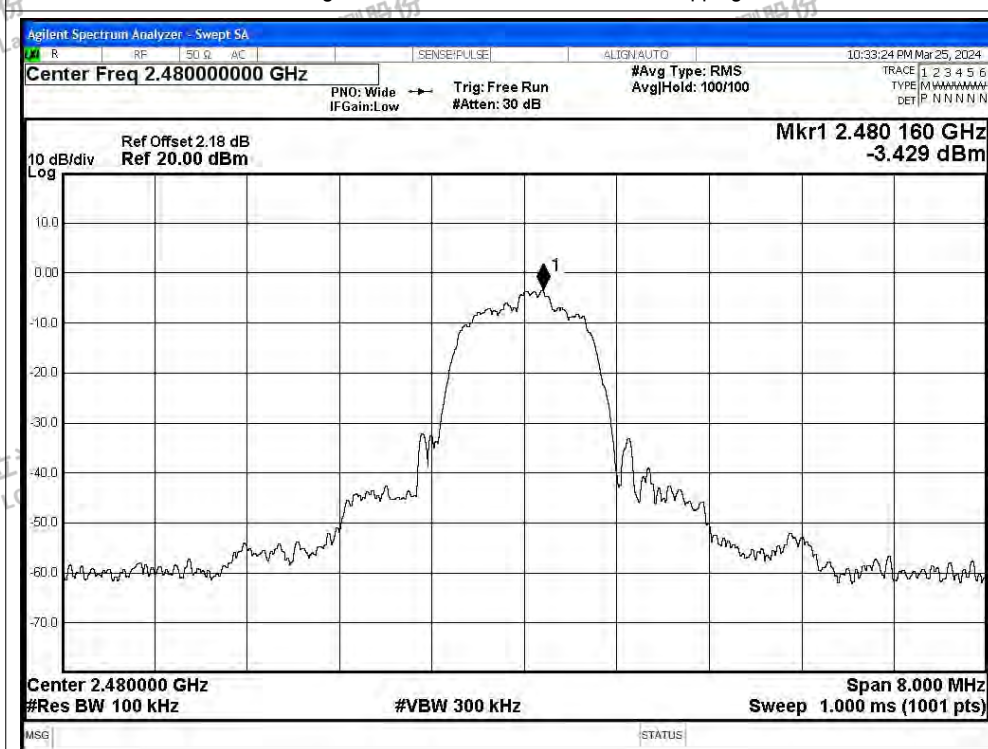
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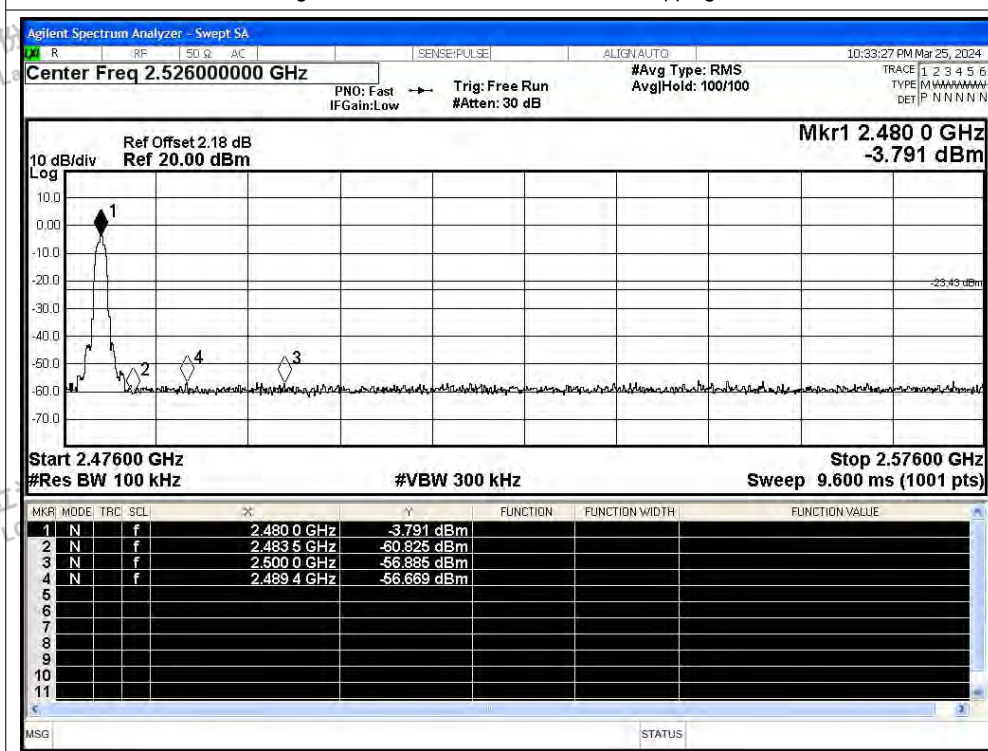
Scan code to check authenticity



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



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

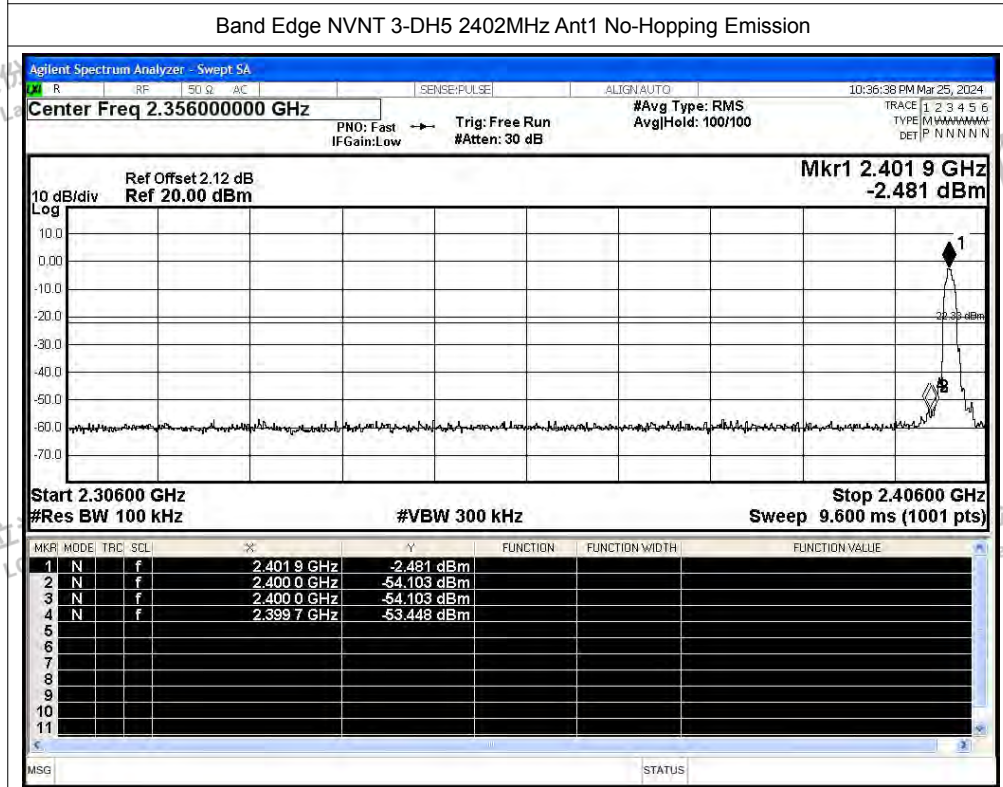
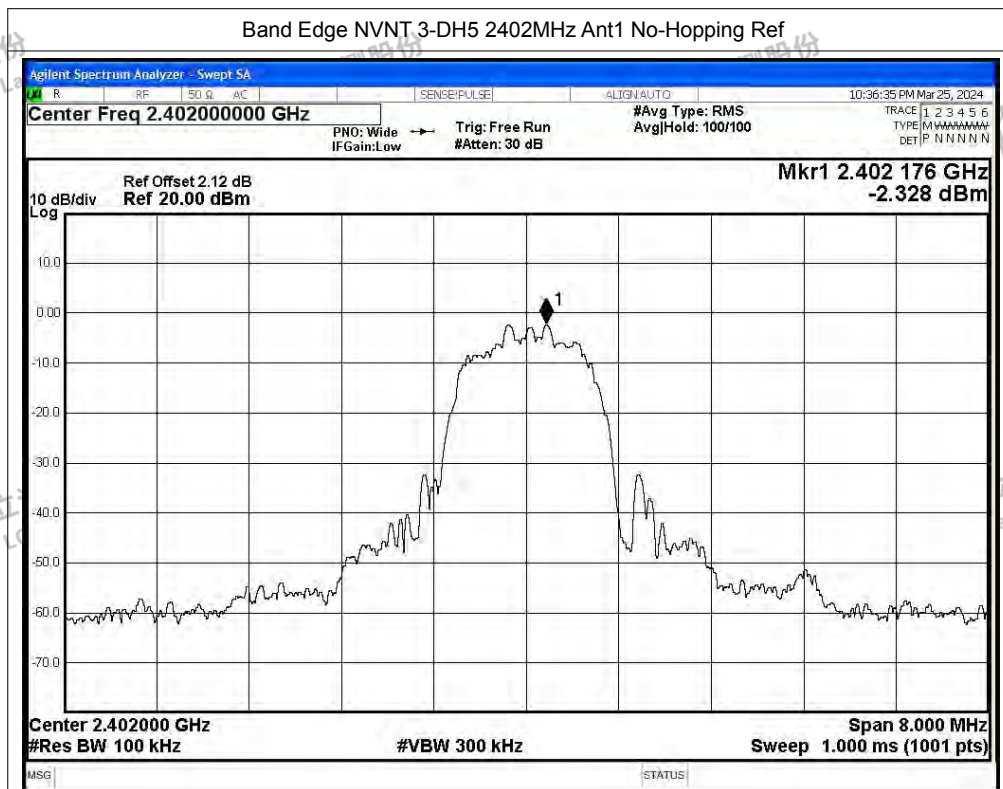


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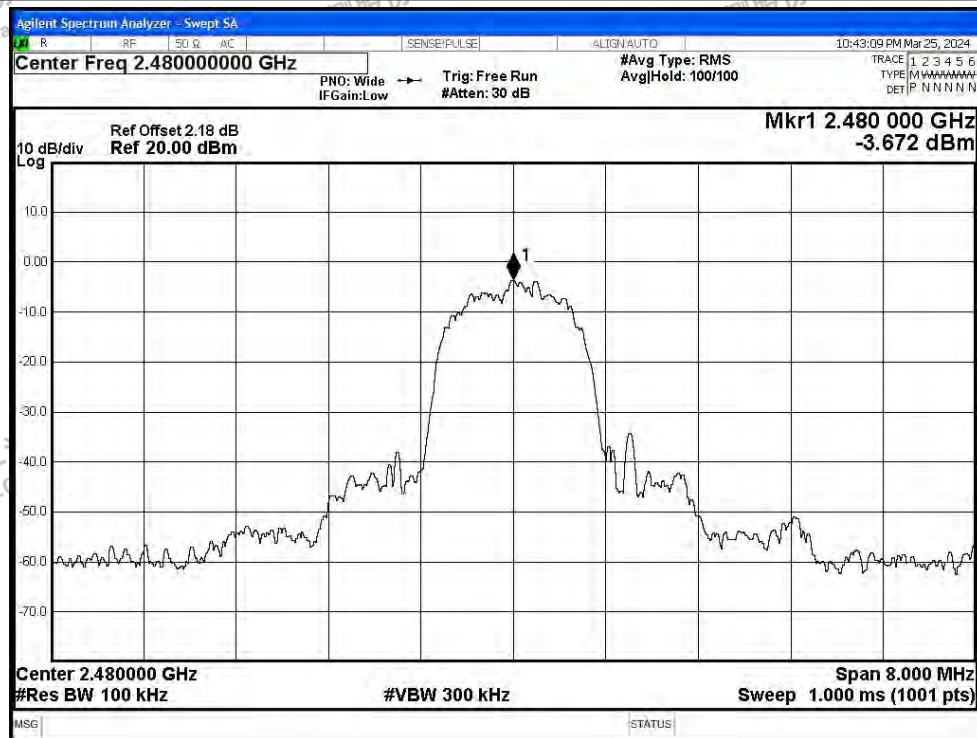
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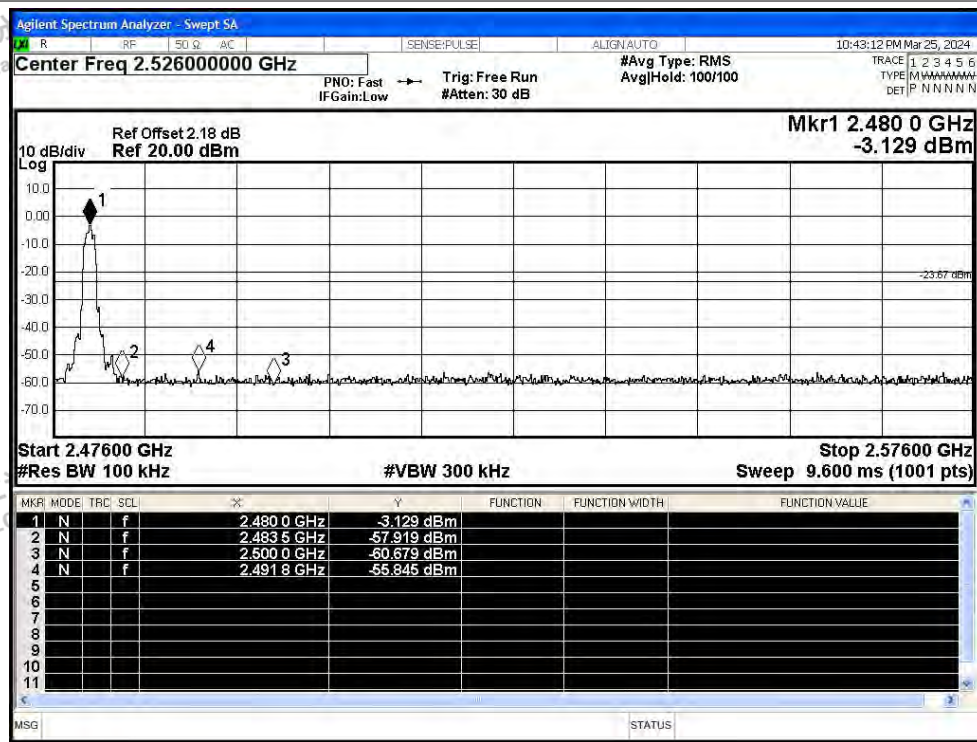
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



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(Hopping)

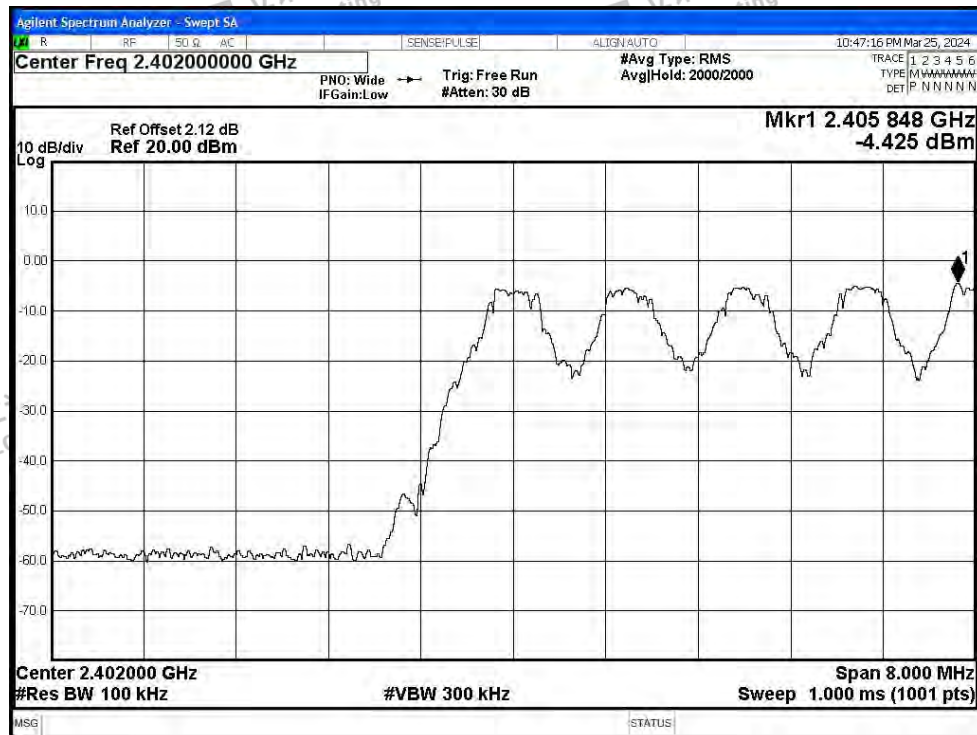
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-51.93	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-52.74	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-47.56	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-49.31	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-48.36	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-49.23	-20	Pass



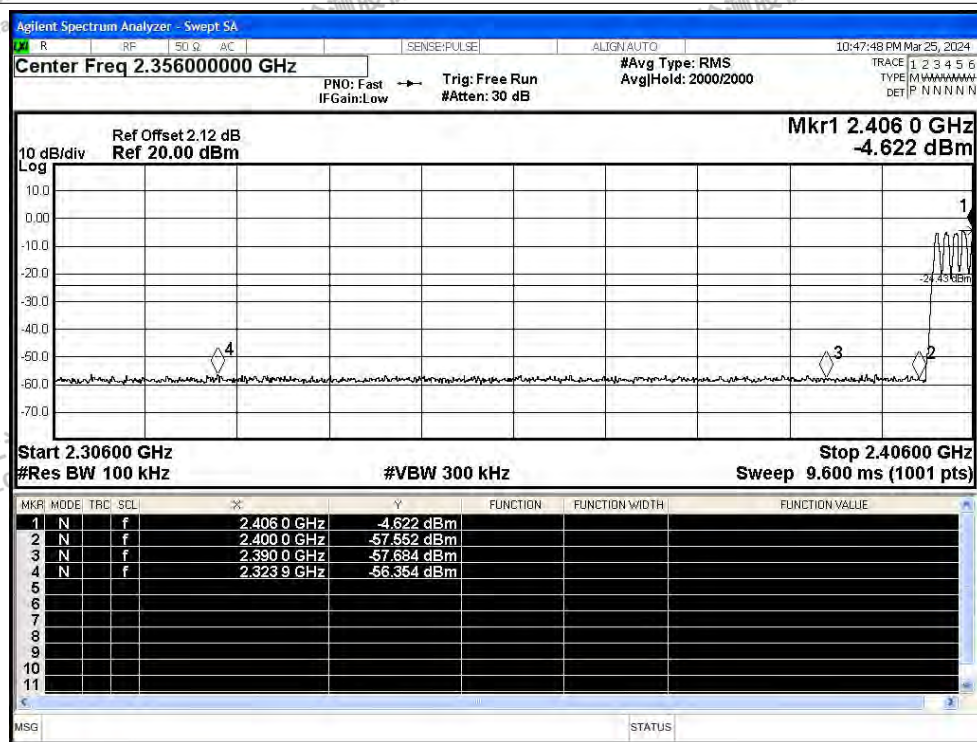


Test Graphs

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



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

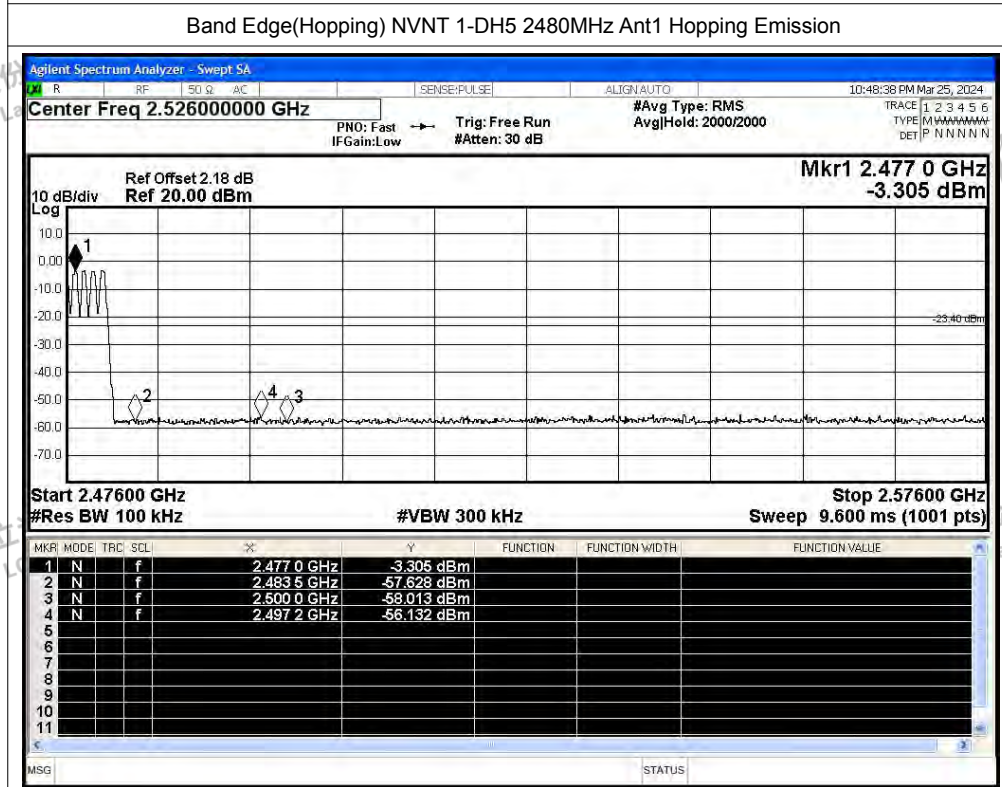
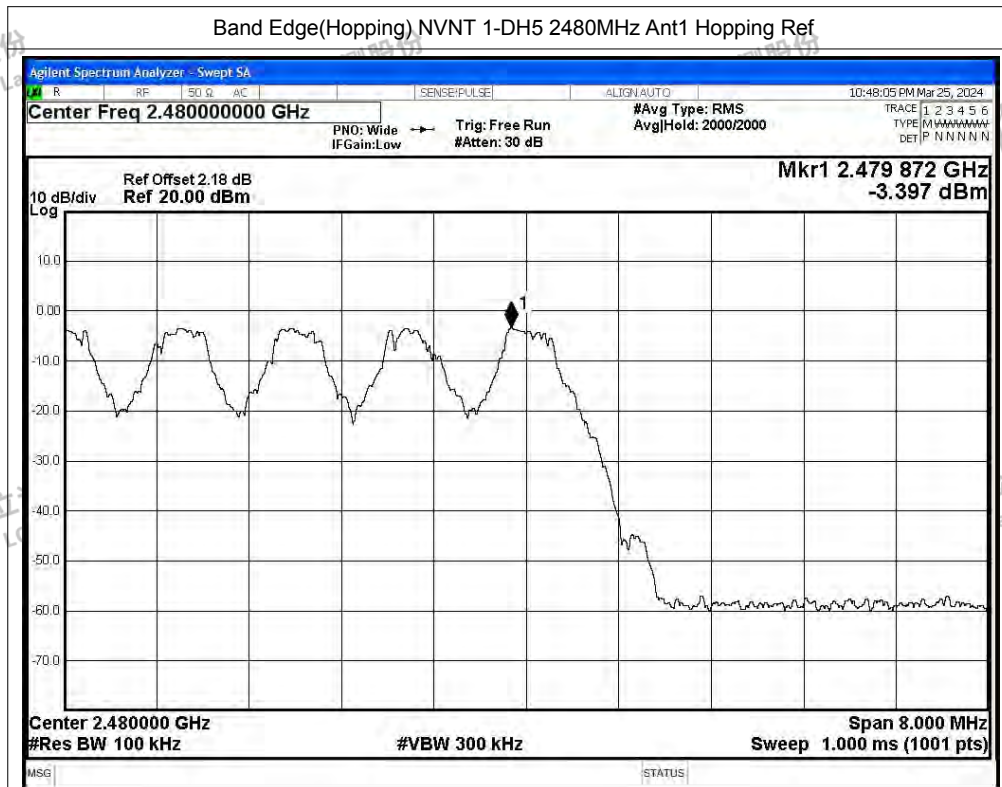


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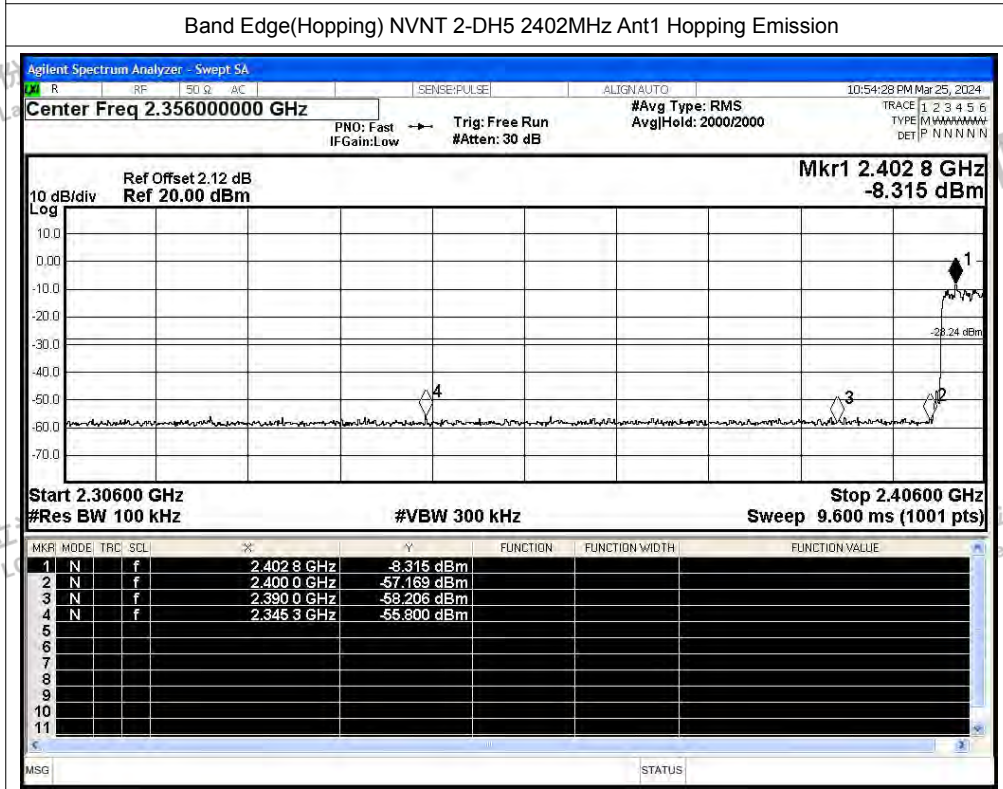
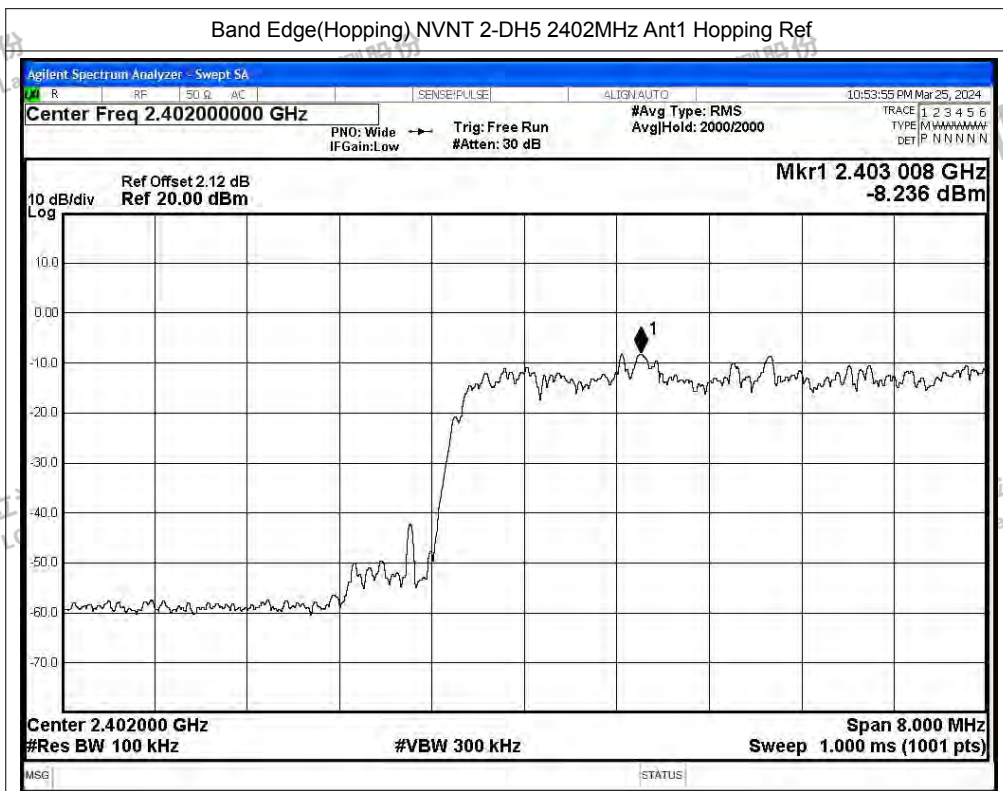


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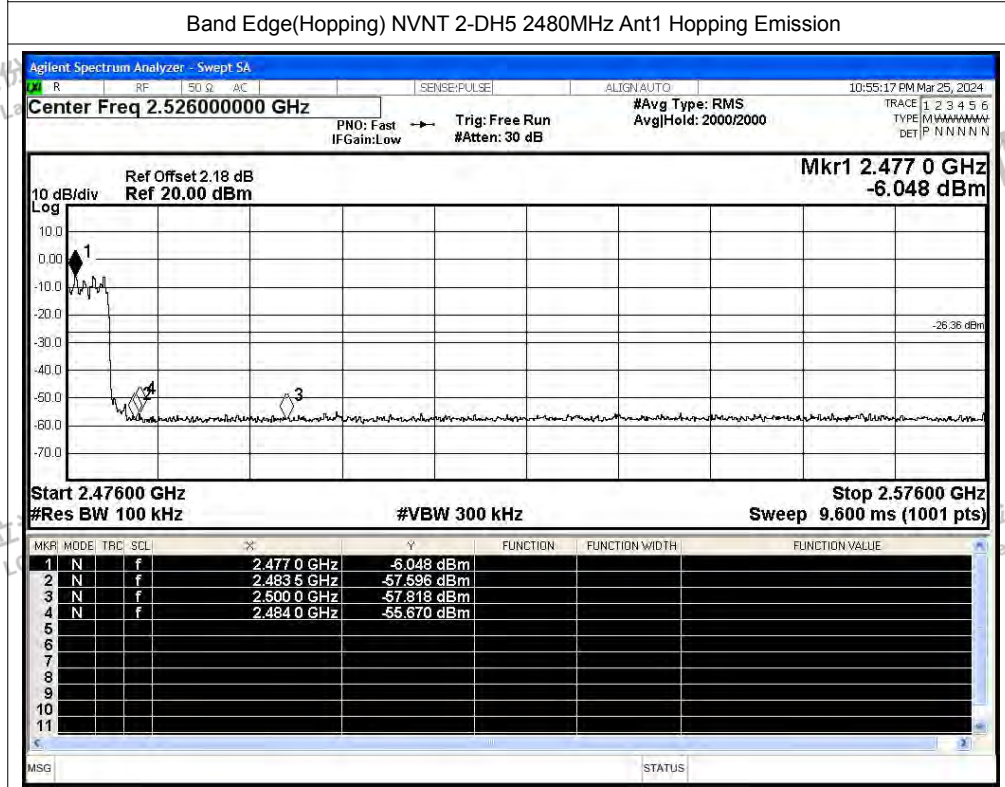
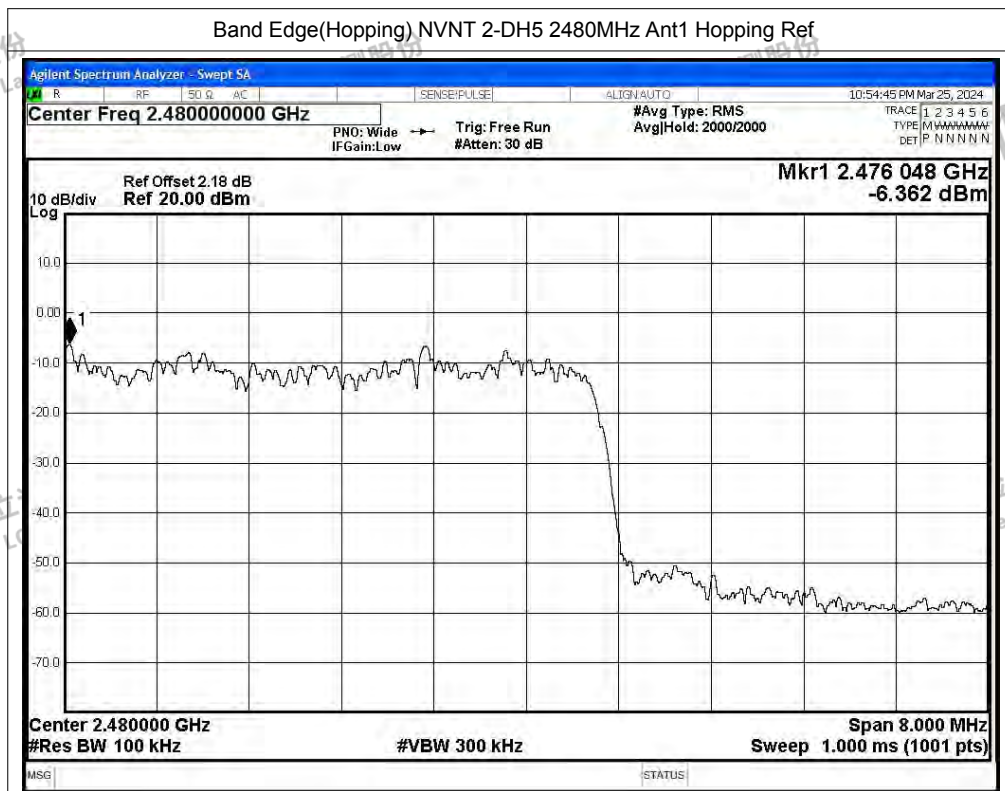


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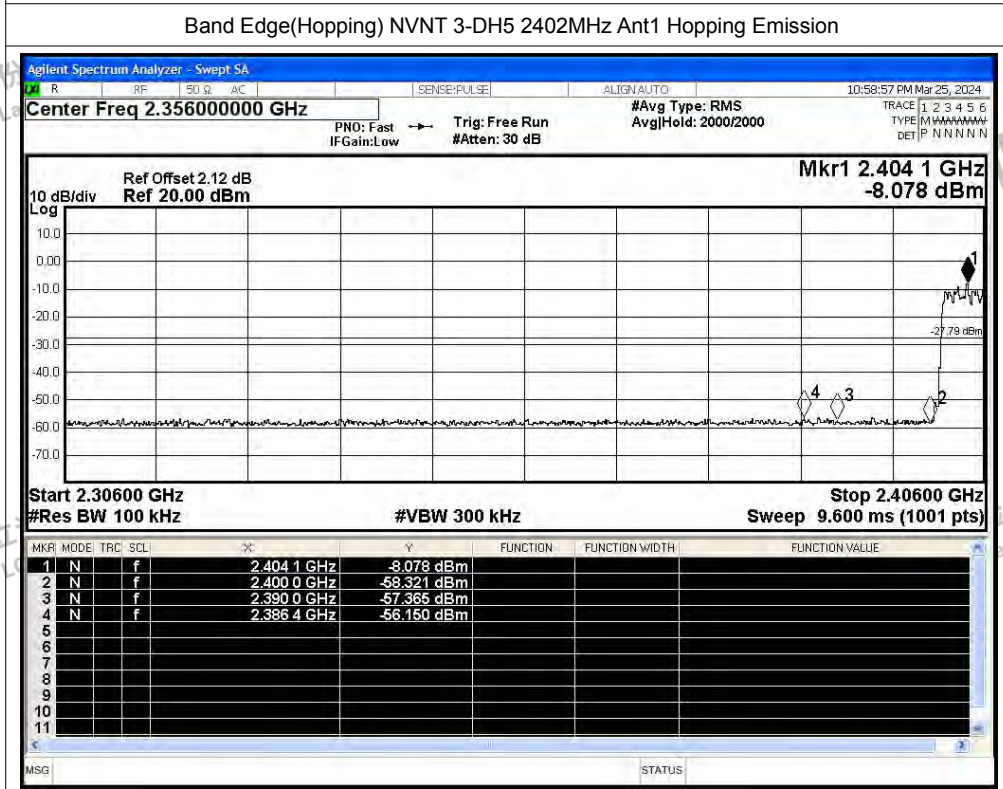
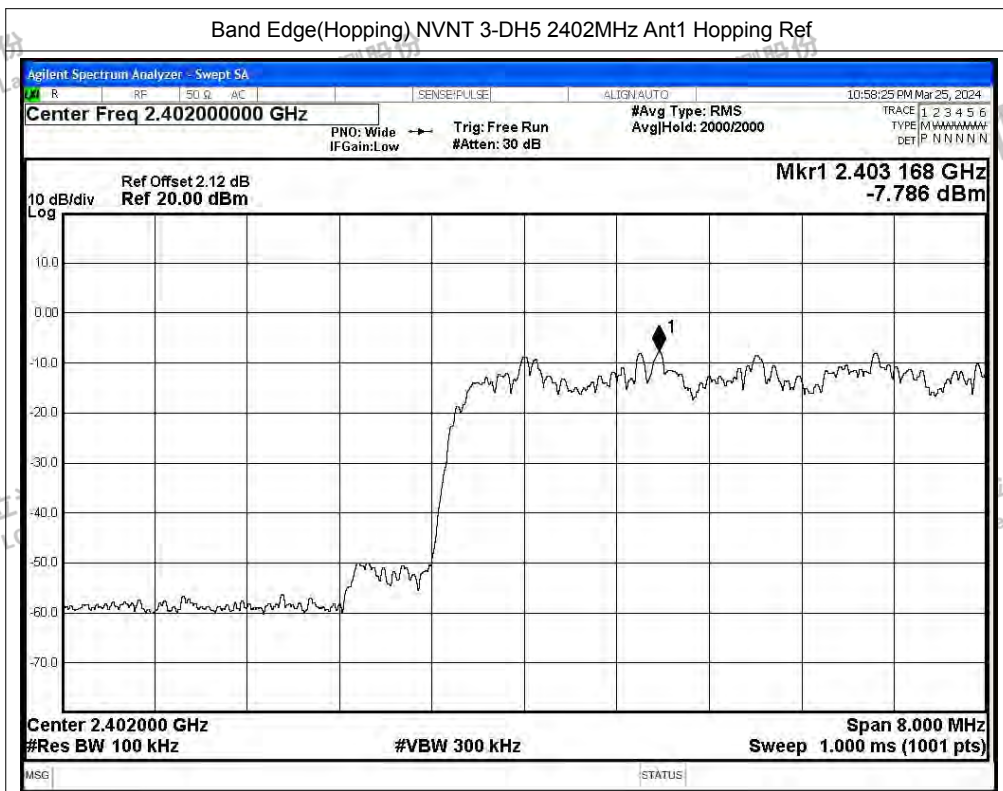


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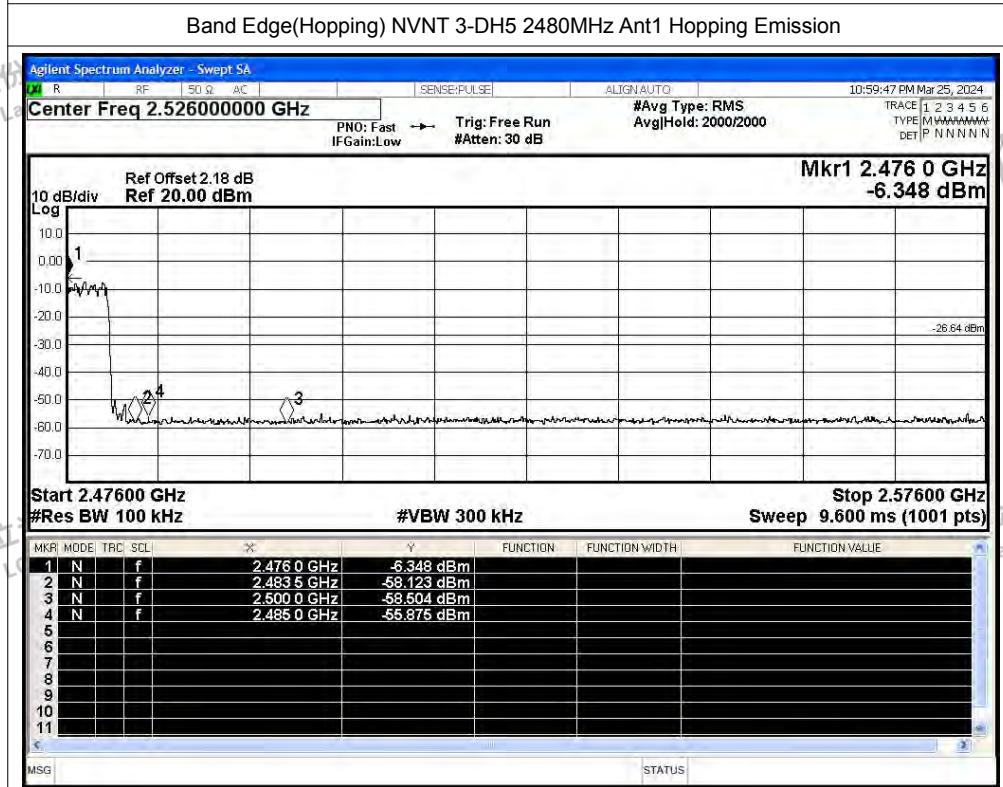
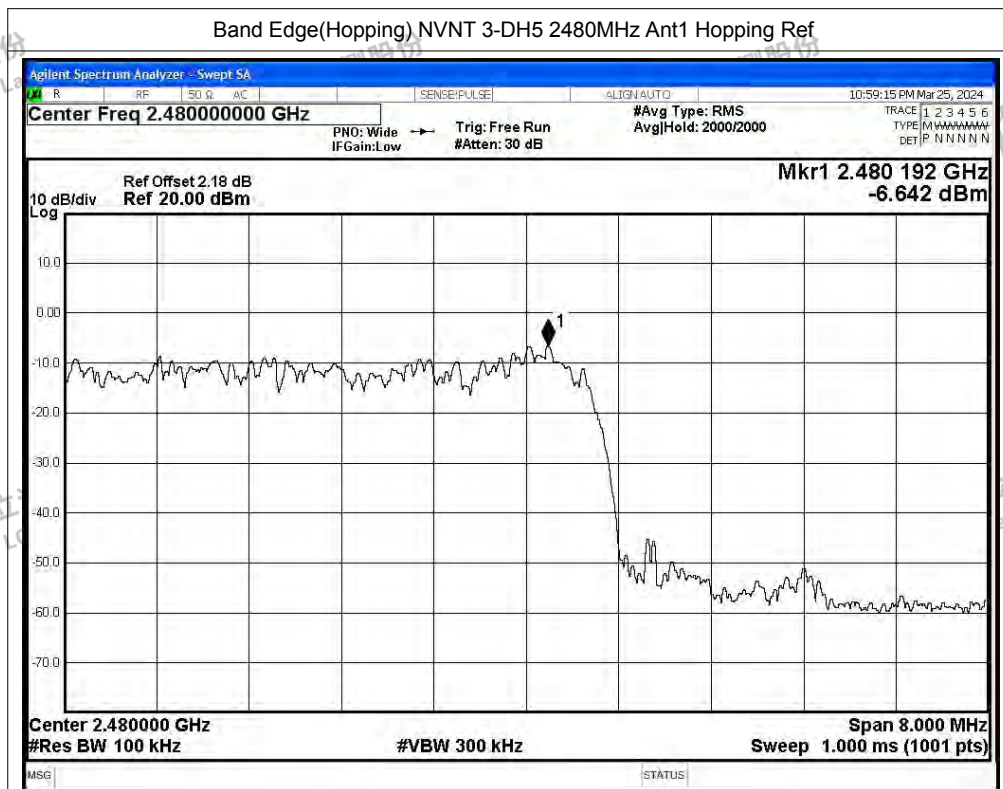


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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.84	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.01	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.83	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.27	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.65	-20	Pass
NVNT	2-DH5	2480	Ant1	-50.75	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.01	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.64	-20	Pass
NVNT	3-DH5	2480	Ant1	-49.89	-20	Pass



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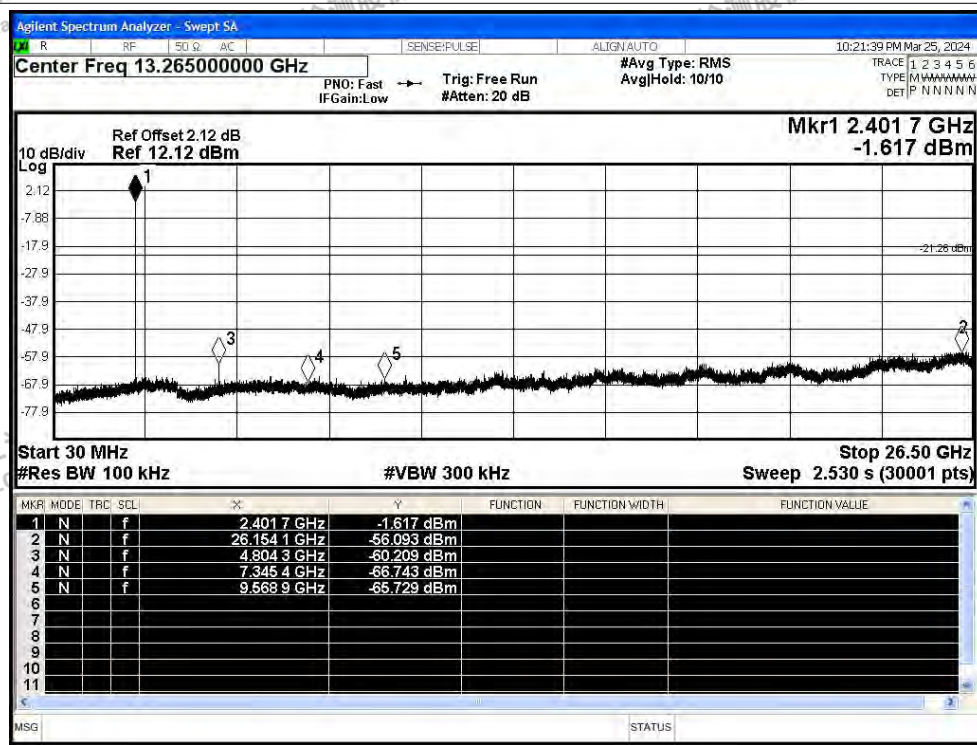


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

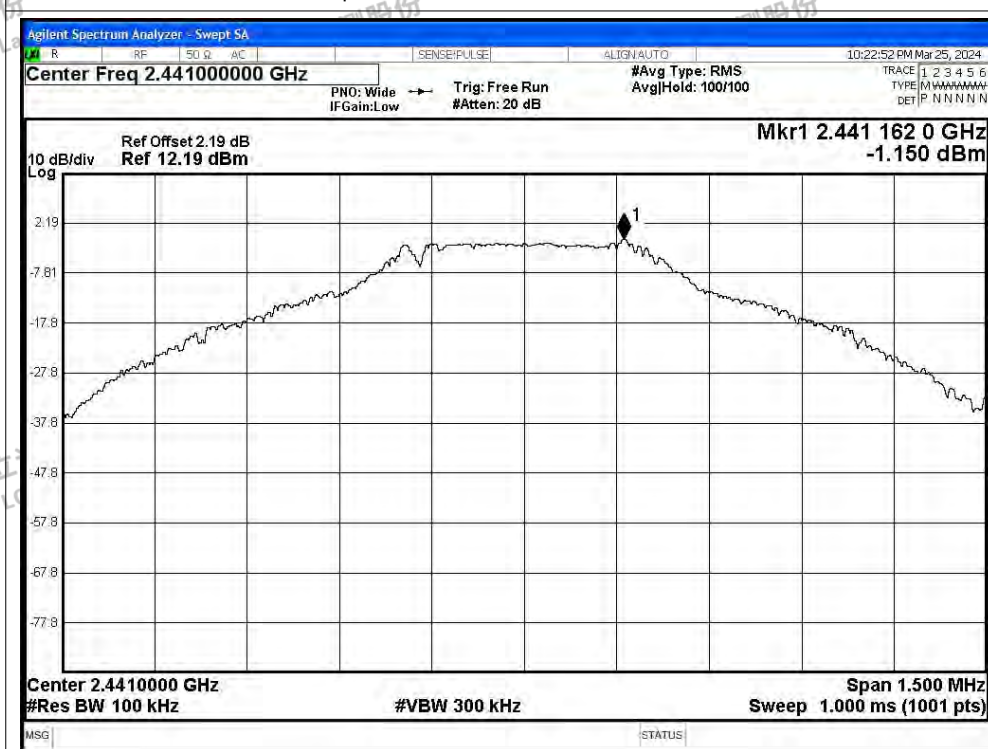
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

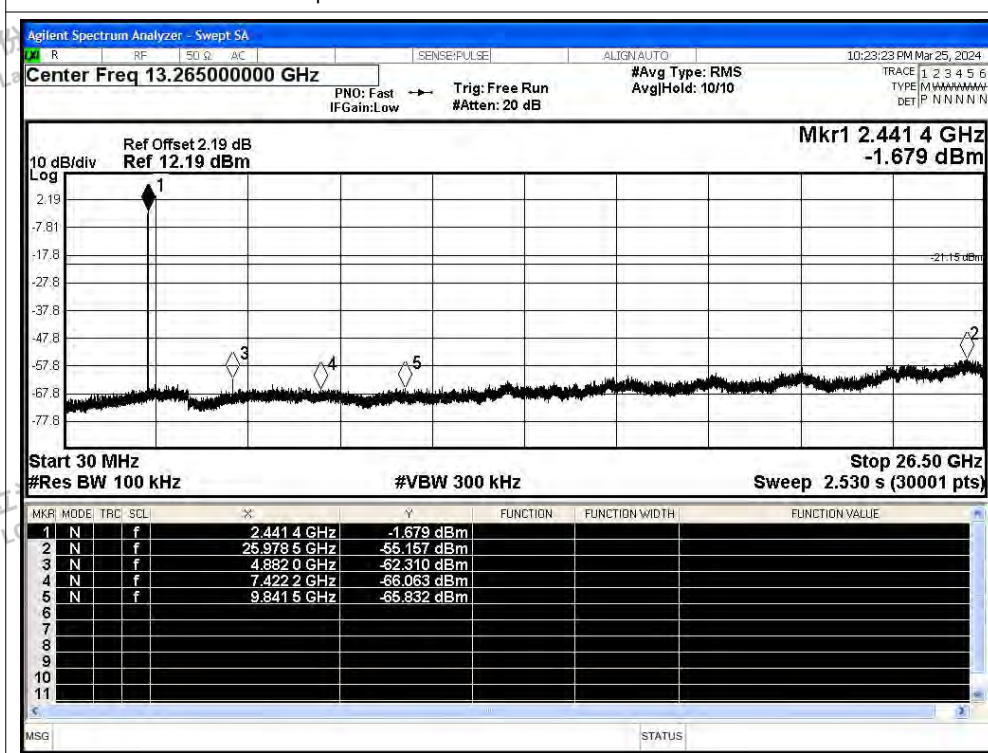
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

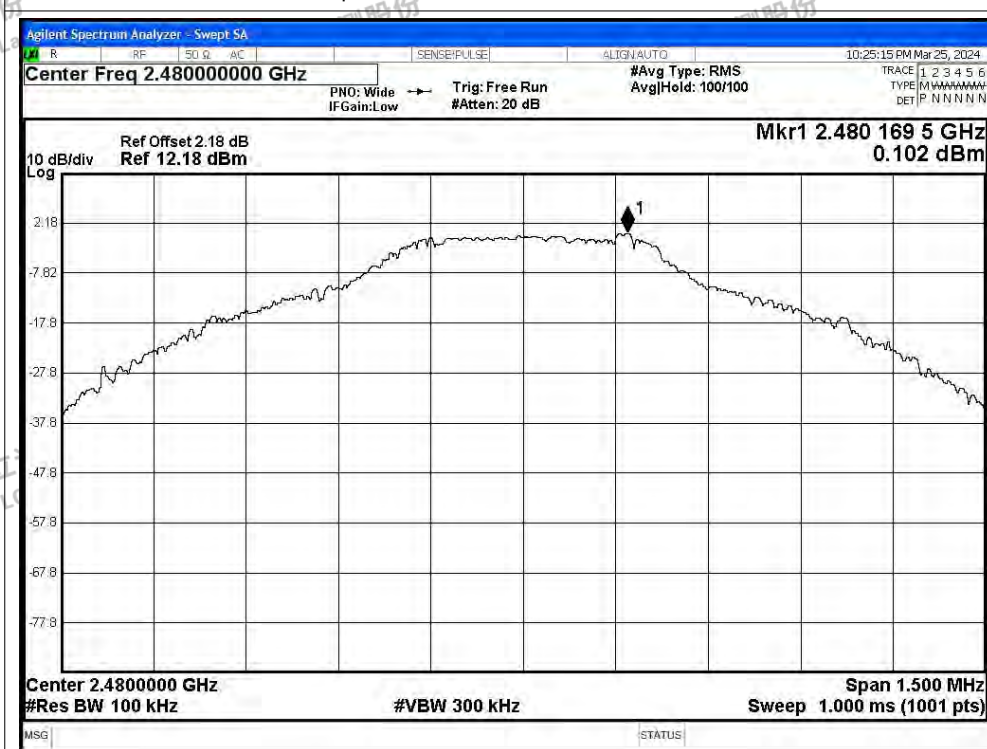
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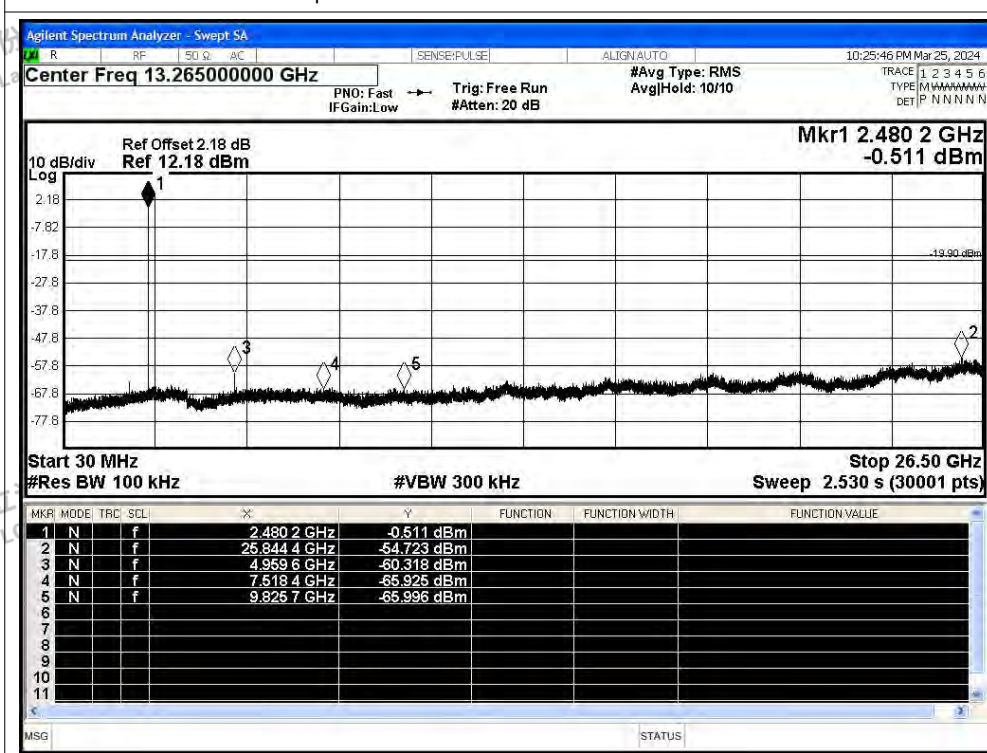
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

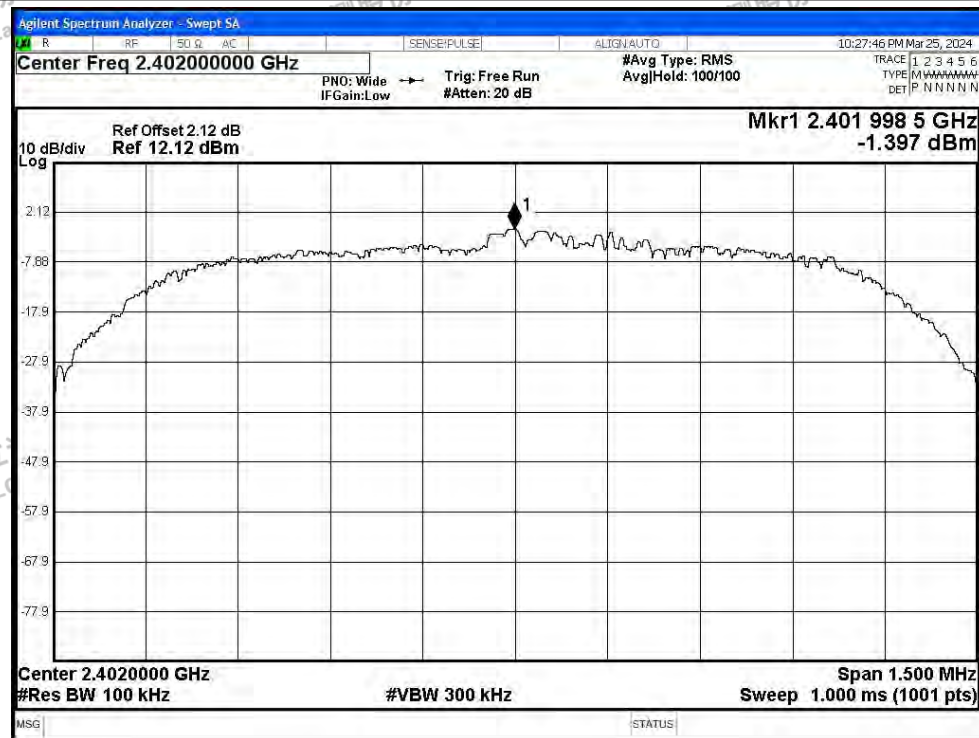
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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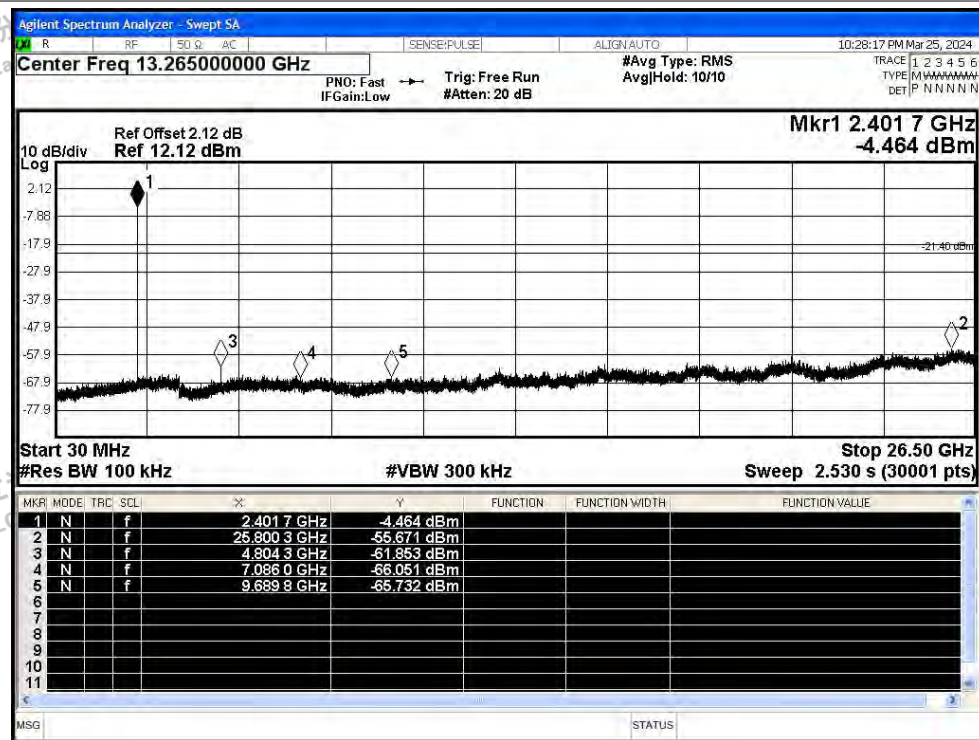
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

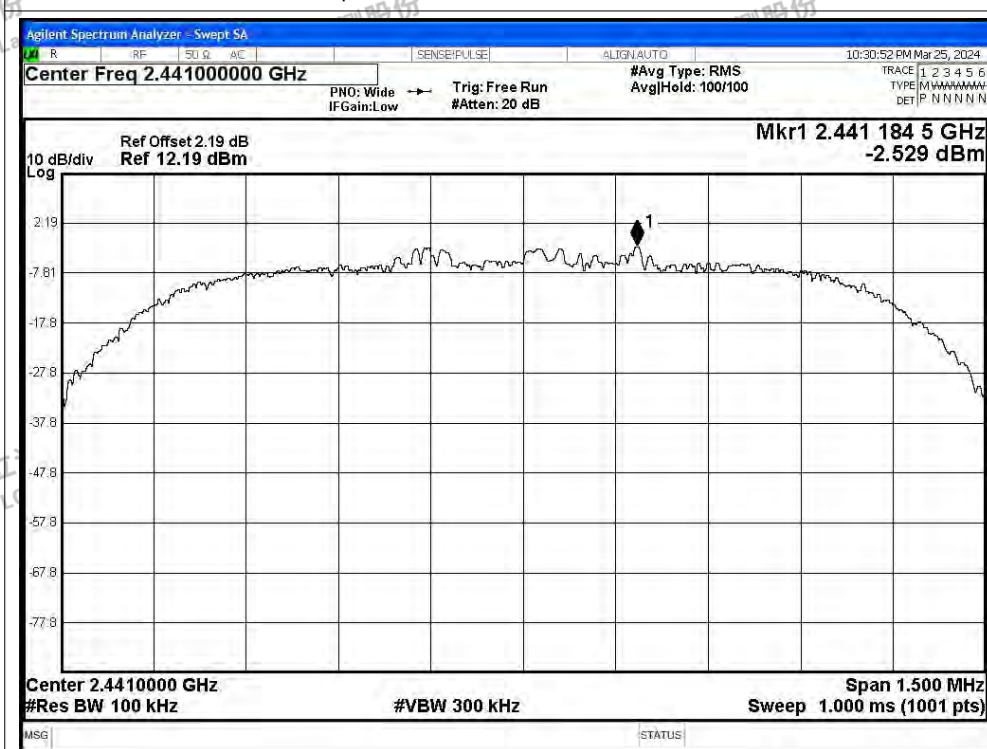
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

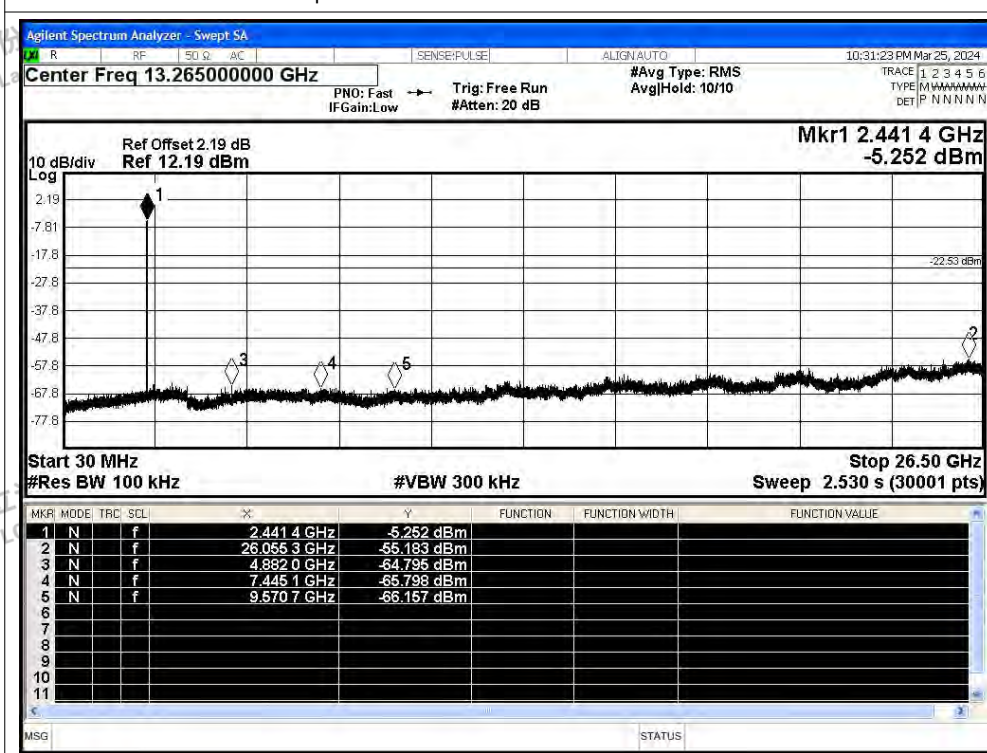
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

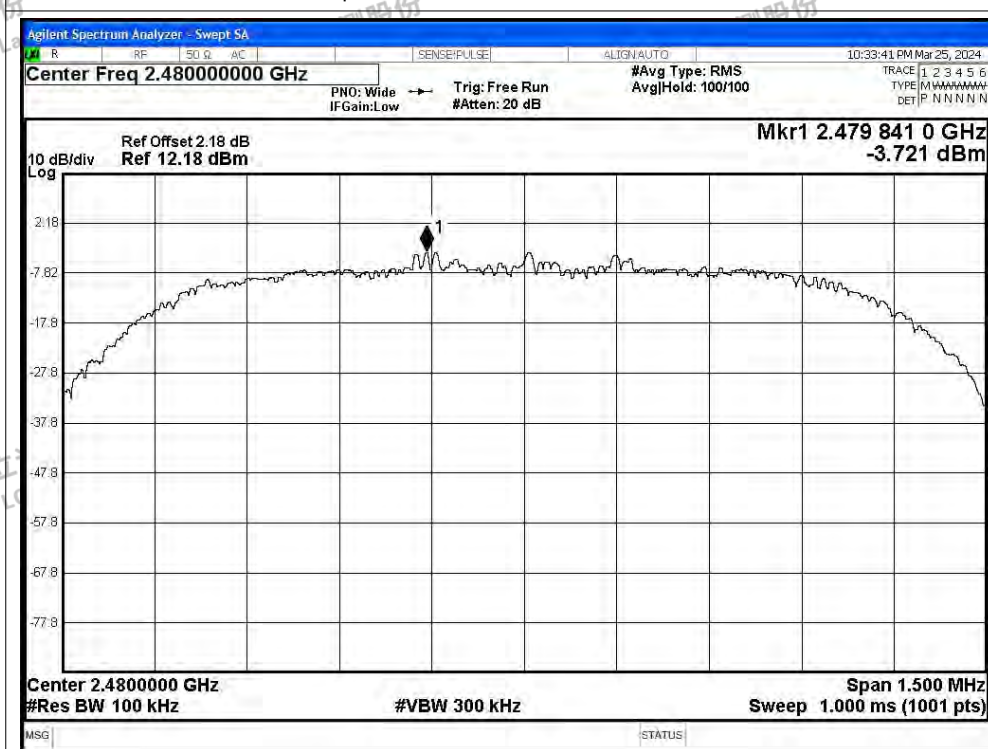
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

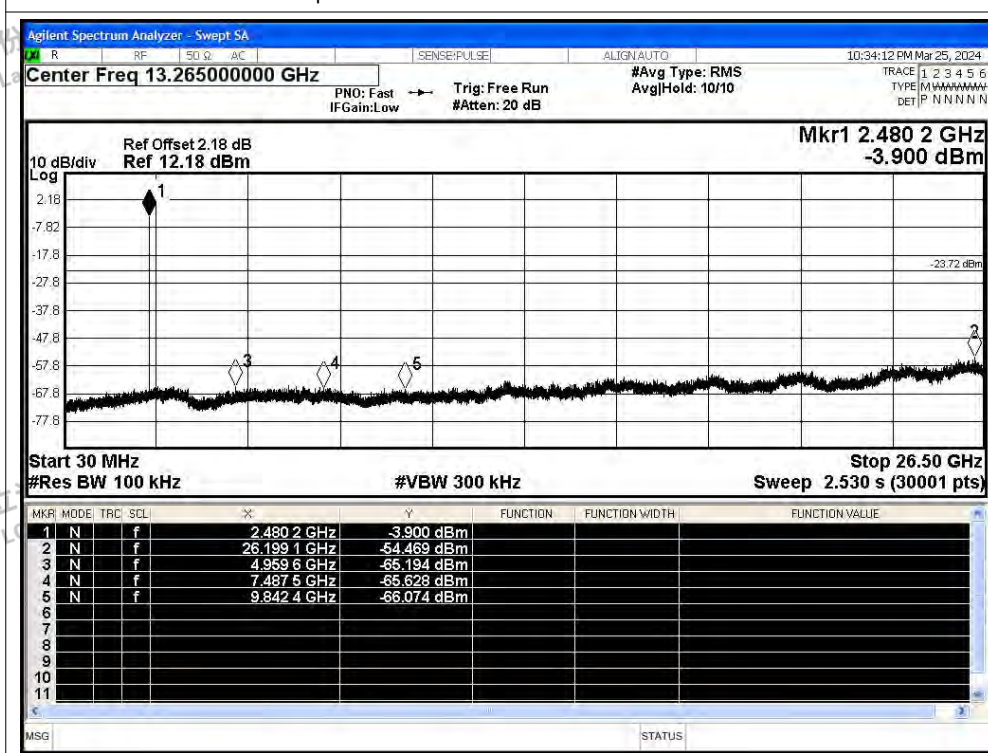
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

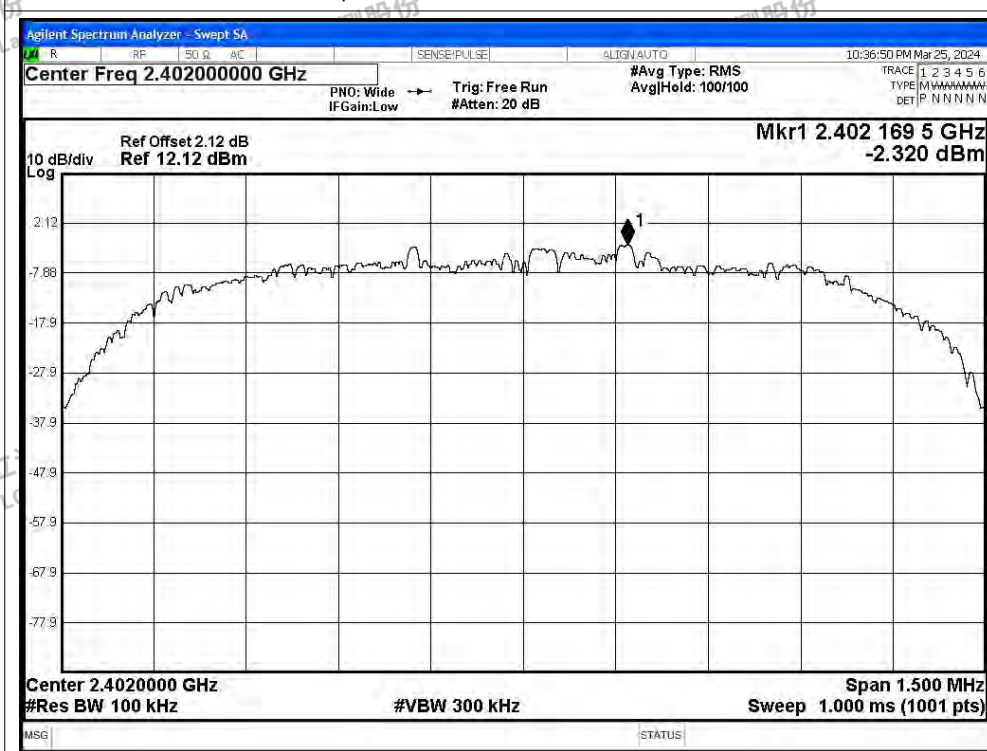
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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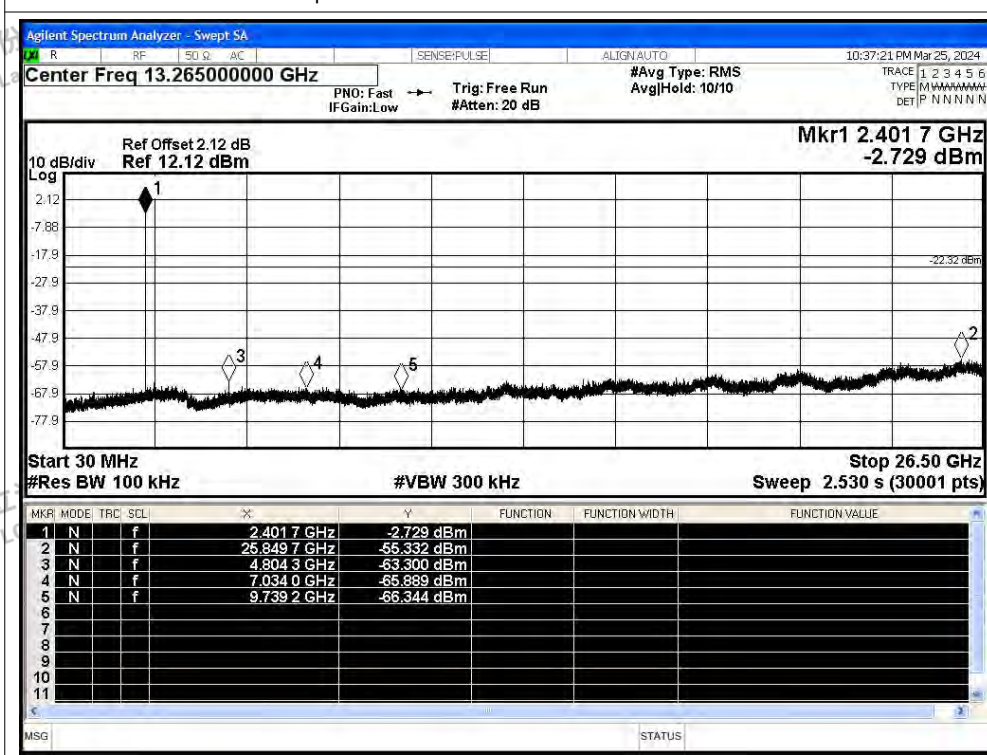
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

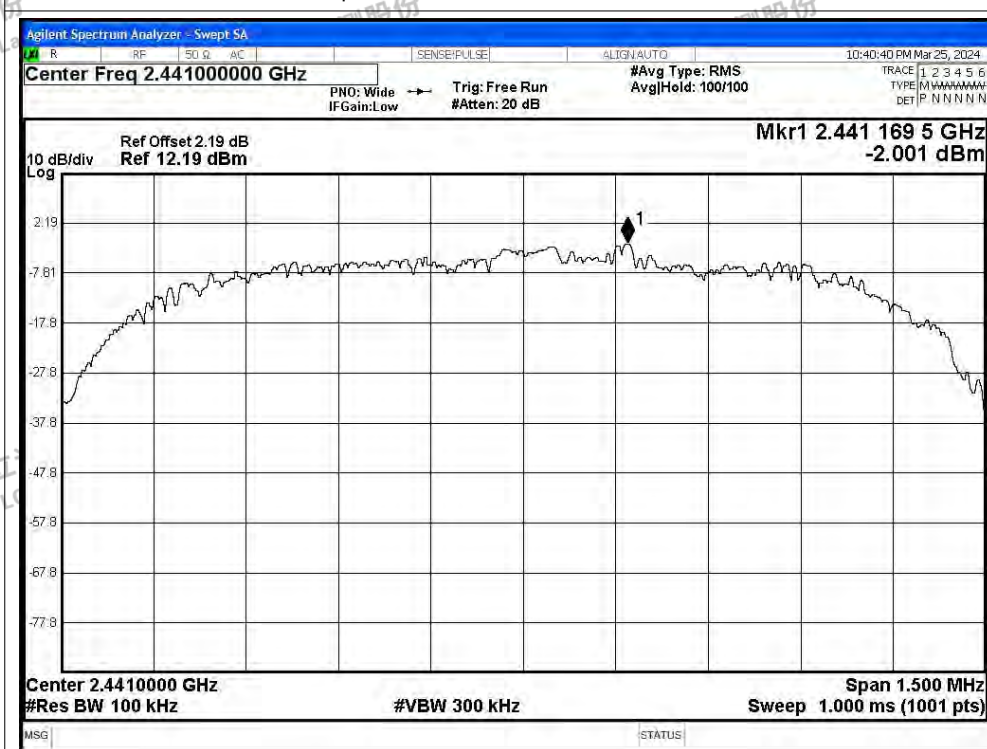
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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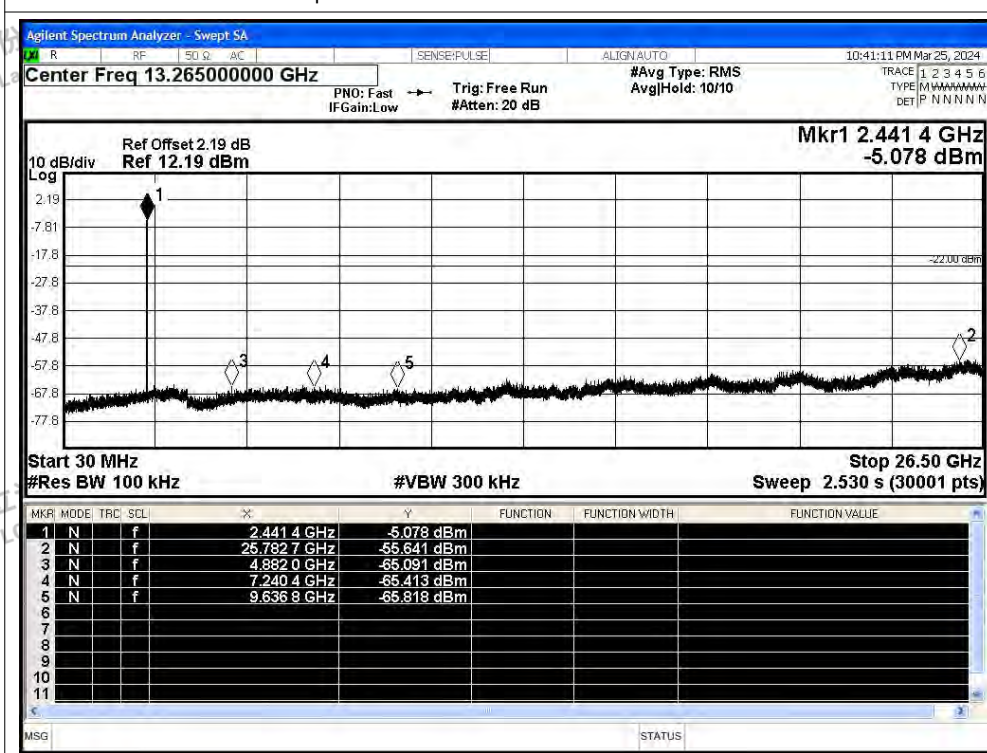
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

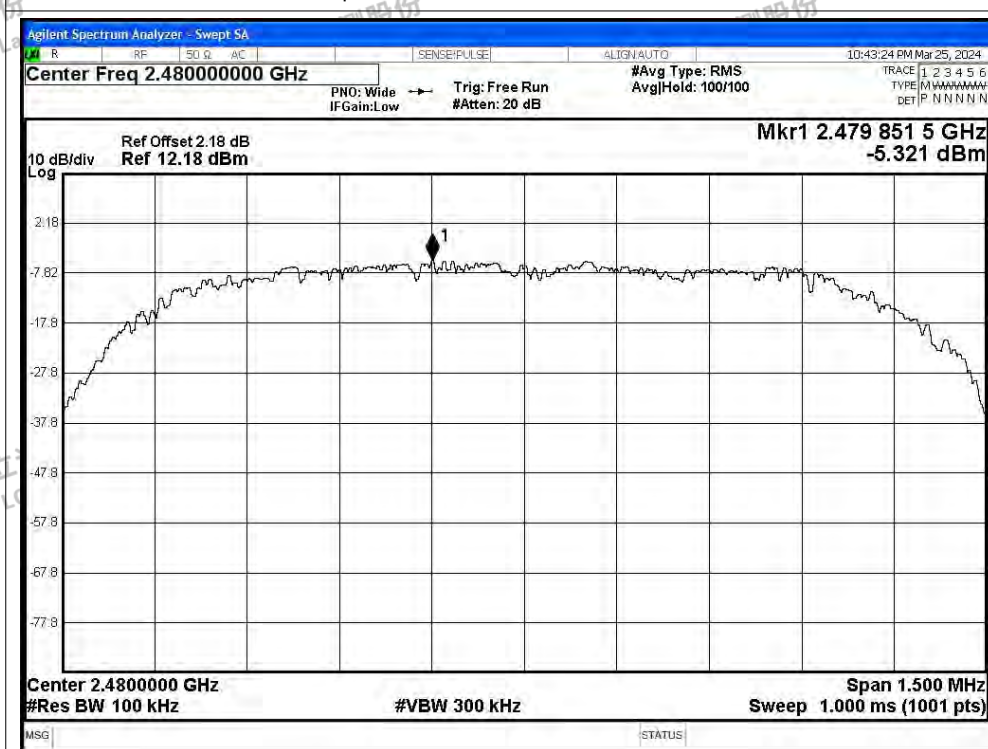
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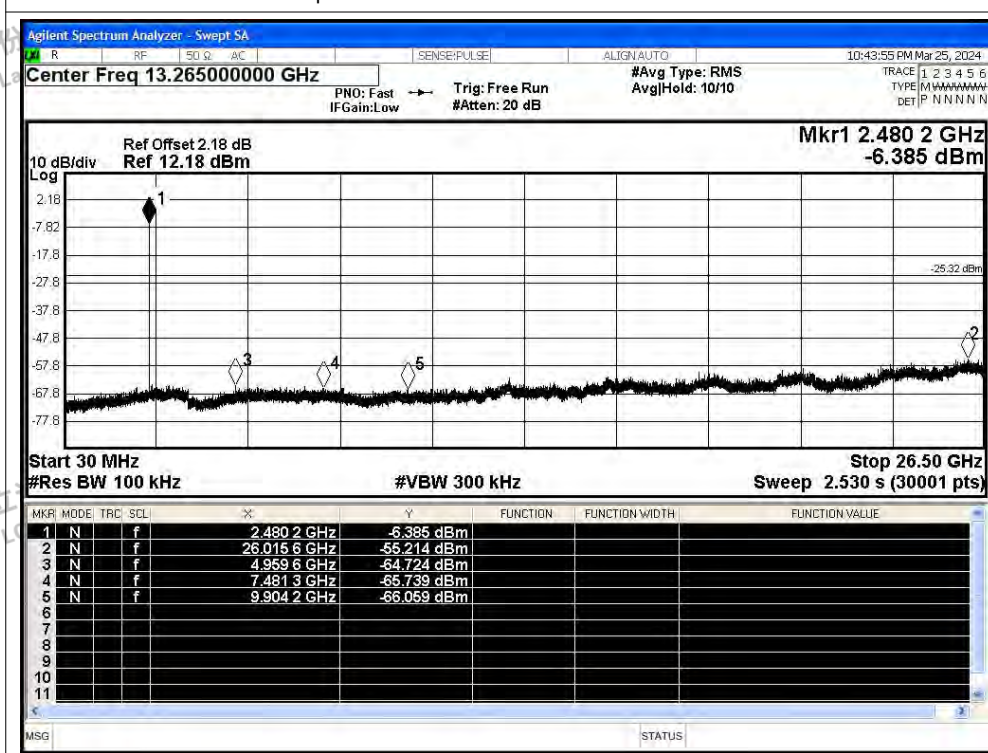
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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A.8 Duty Cycle

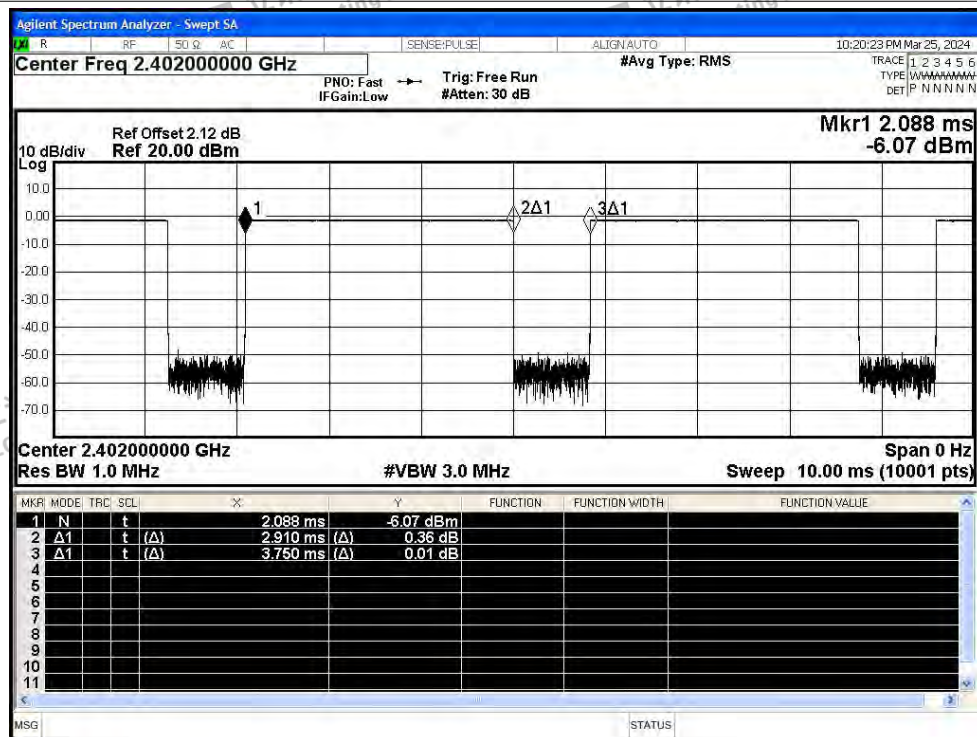
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	76.4	1.17	0.36
NVNT	2-DH5	2441	Ant1	76.41	1.17	0.36
NVNT	2-DH5	2480	Ant1	76.4	1.17	0.36
NVNT	3-DH5	2402	Ant1	76.38	1.17	0.36
NVNT	3-DH5	2441	Ant1	76.38	1.17	0.36
NVNT	3-DH5	2480	Ant1	76.35	1.17	0.36



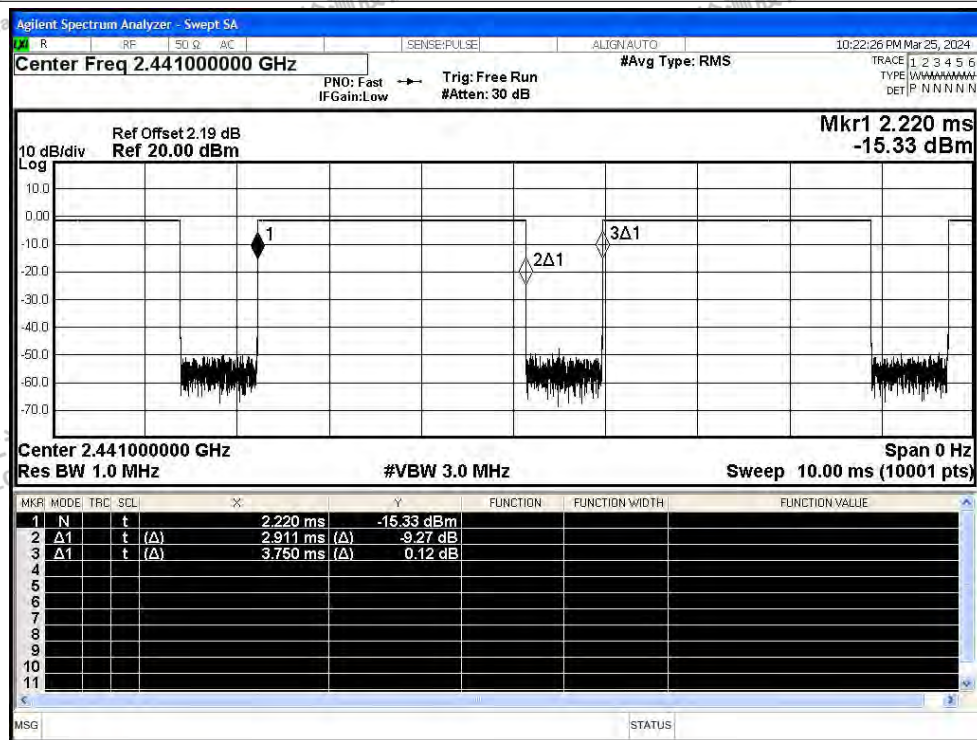


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1

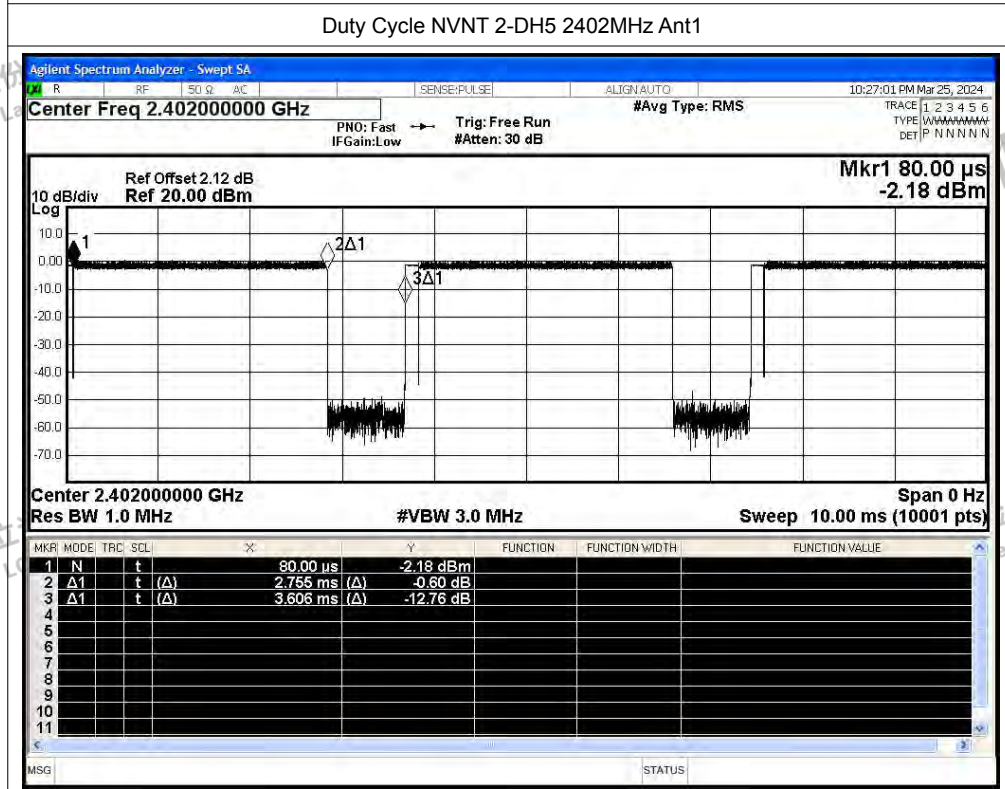
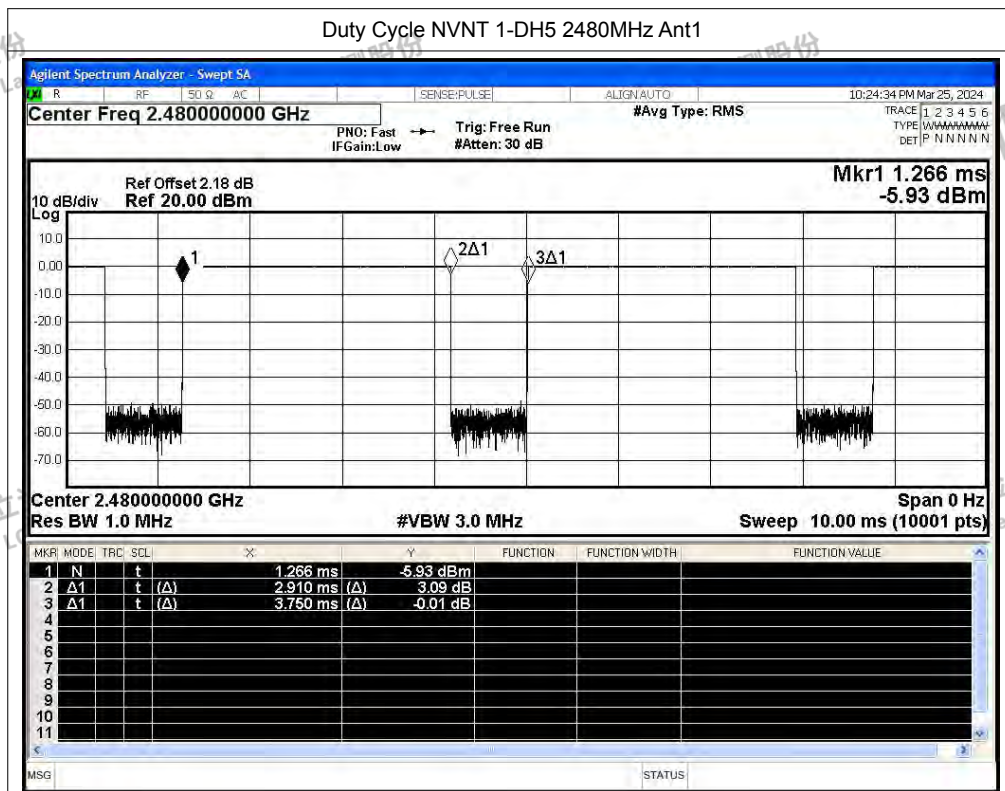


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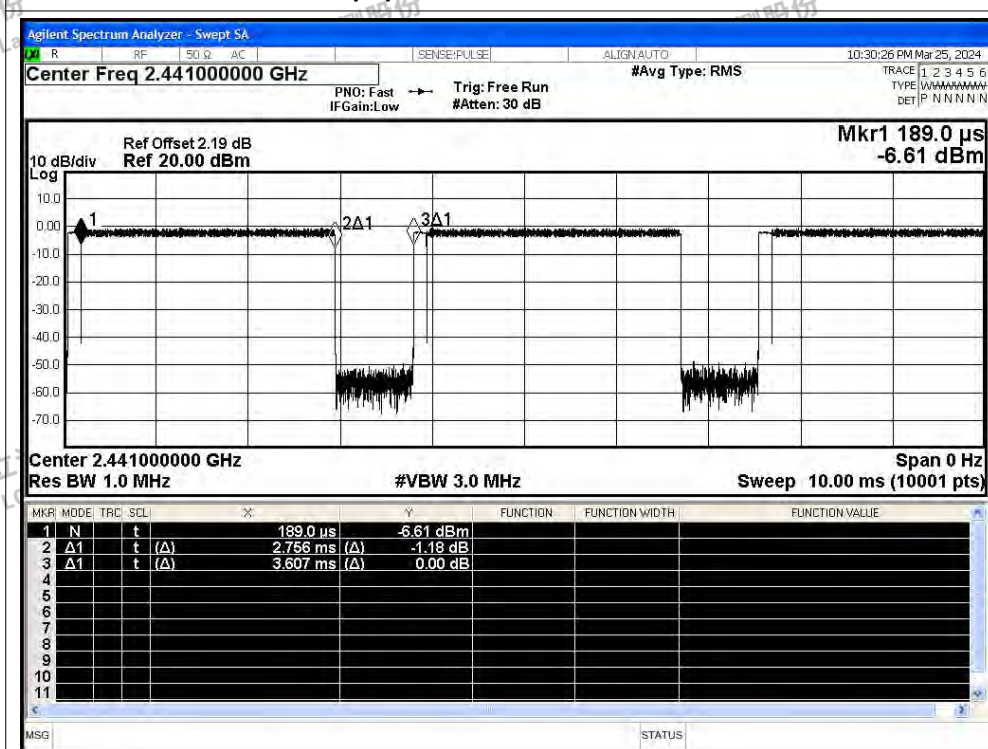
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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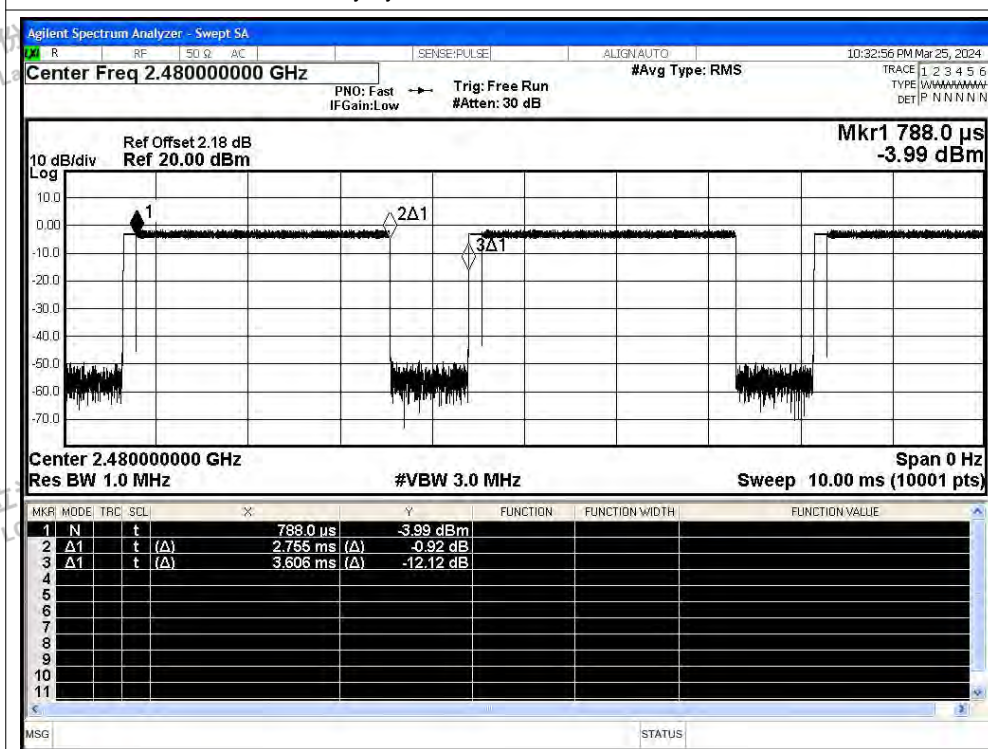
Scan code to check authenticity



Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

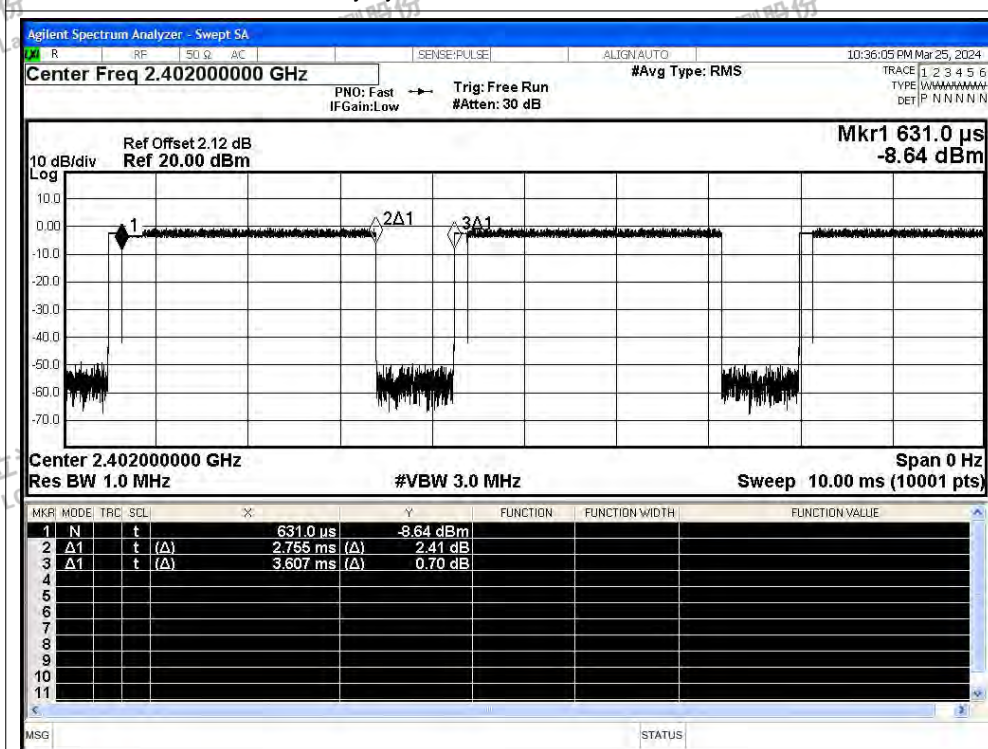
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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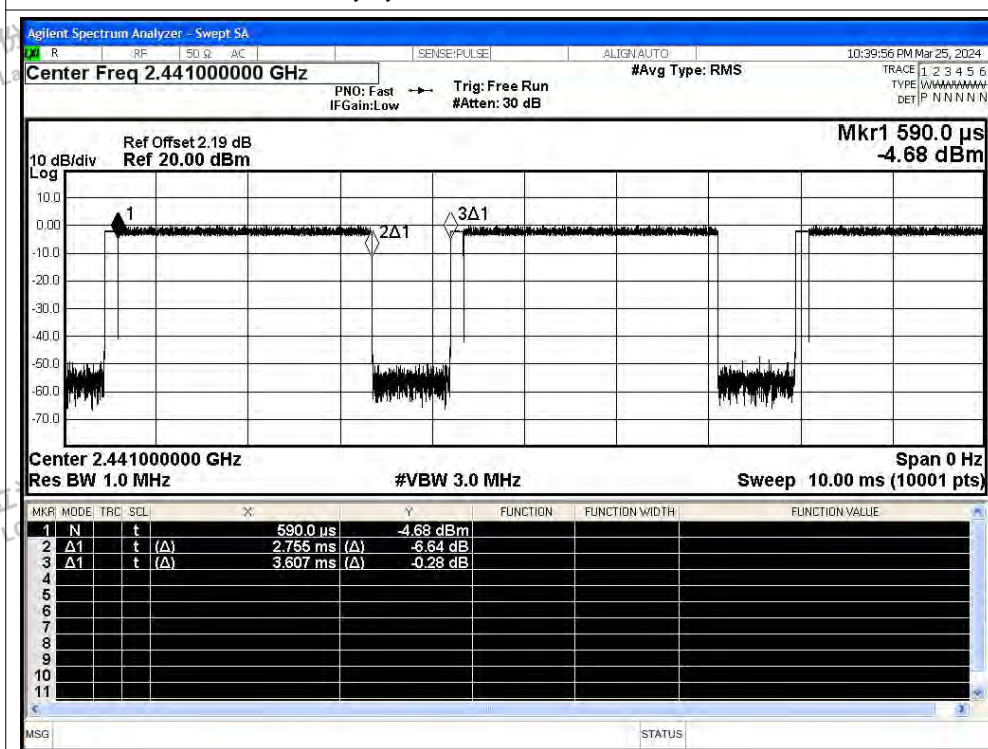
Scan code to check authenticity



Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

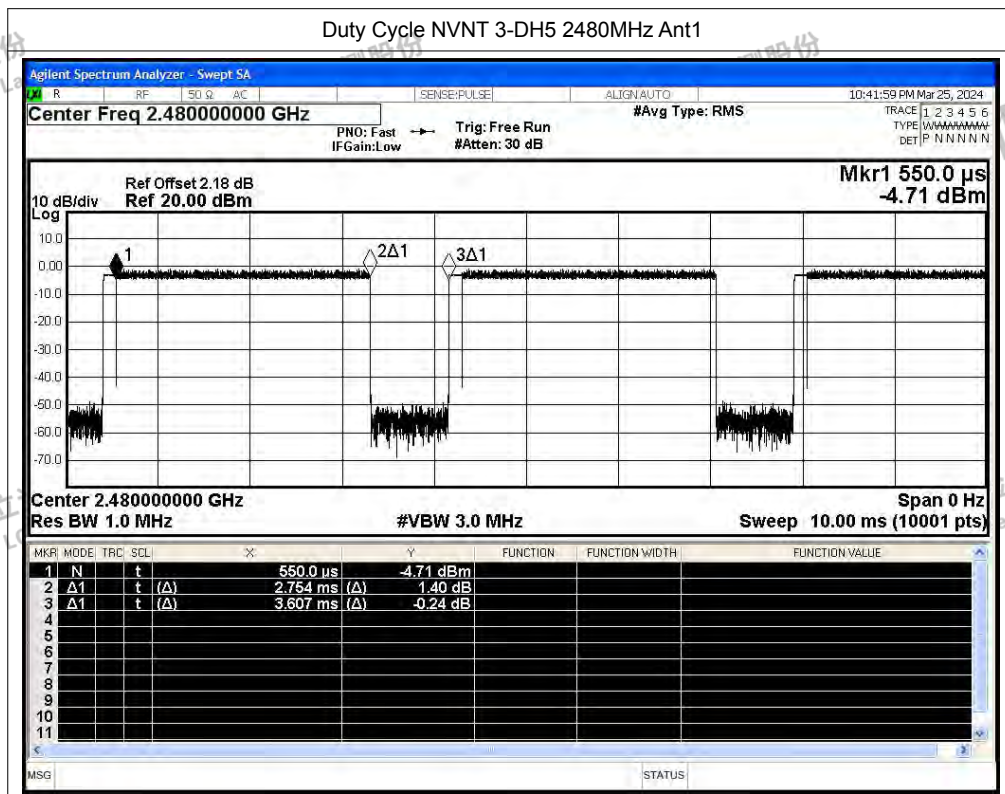


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A.9 Restrict Band

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	-51.7	2	-	45.56	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.44	2	1.1	39.92	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2331.504	-47.36	2	-	49.9	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.264	-57.73	2	1.1	40.63	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.23	2	-	49.03	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.7	2	1.1	39.66	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.15	2	-	47.11	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.6	2	1.1	40.76	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.608	-43.13	2	-	54.13	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.8	-56.74	2	1.1	41.62	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.45	2	-	47.81	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.12	2	1.1	40.24	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.64	2	-	45.62	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.38	2	1.17	40.05	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2367.504	-46.51	2	-	50.75	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2387.664	-57.55	2	1.17	40.88	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.17	2	-	46.09	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.65	2	1.17	39.78	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.2	2	-	48.06	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.44	2	1.17	40.99	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2486.056	-45.88	2	-	51.38	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.016	-56.99	2	1.17	41.44	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.28	2	-	46.98	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.37	2	1.17	40.06	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.53	2	-	45.73	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.73	2	1.17	39.7	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2376.144	-47.11	2	-	50.15	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2384.592	-57.48	2	1.17	40.95	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.22	2	-	47.04	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.21	2	1.17	40.22	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.5	2	-	48.76	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.64	2	1.17	40.79	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2497.96	-46.12	2	-	51.14	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.544	-57.16	2	1.17	41.27	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.45	2	-	46.81	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.82	2	1.17	40.61	Average	54	Pass



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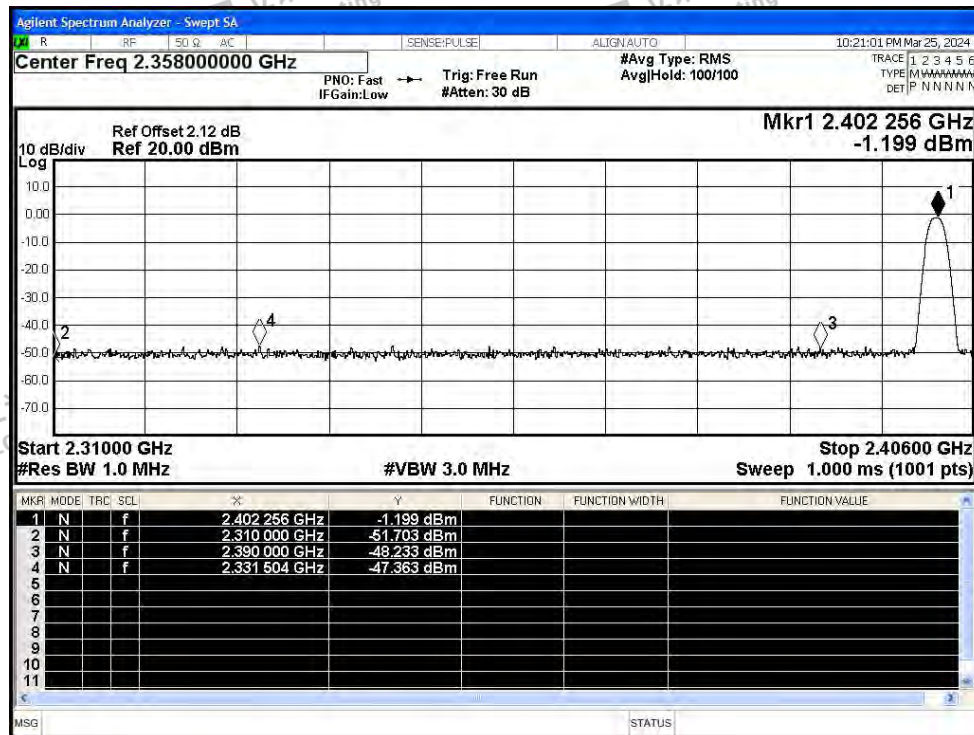
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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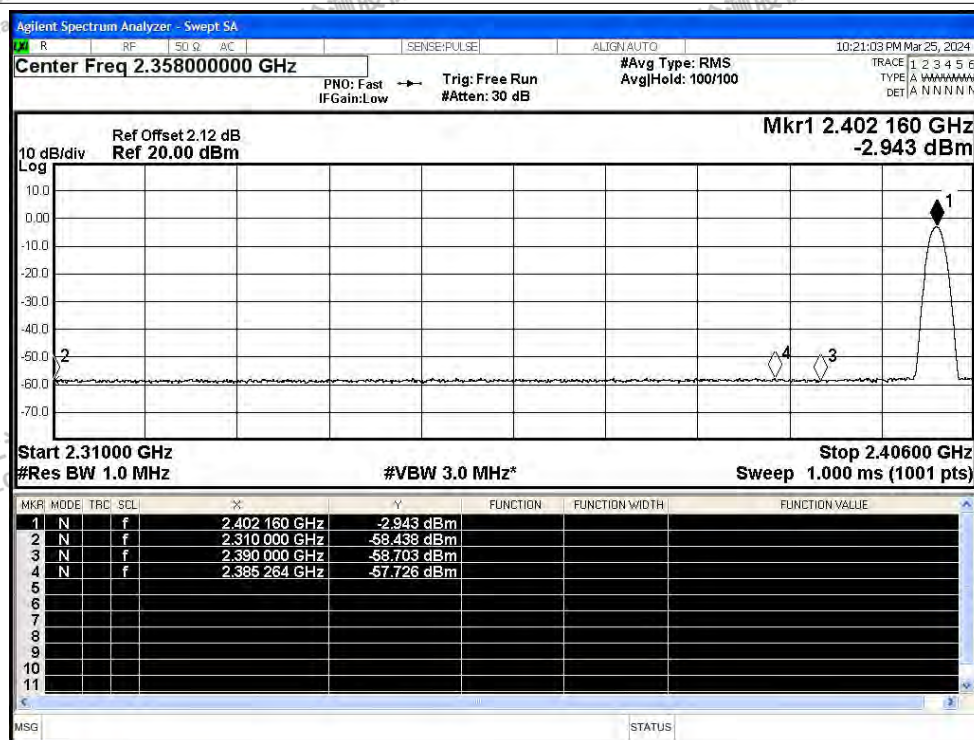


Test Graphs

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



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



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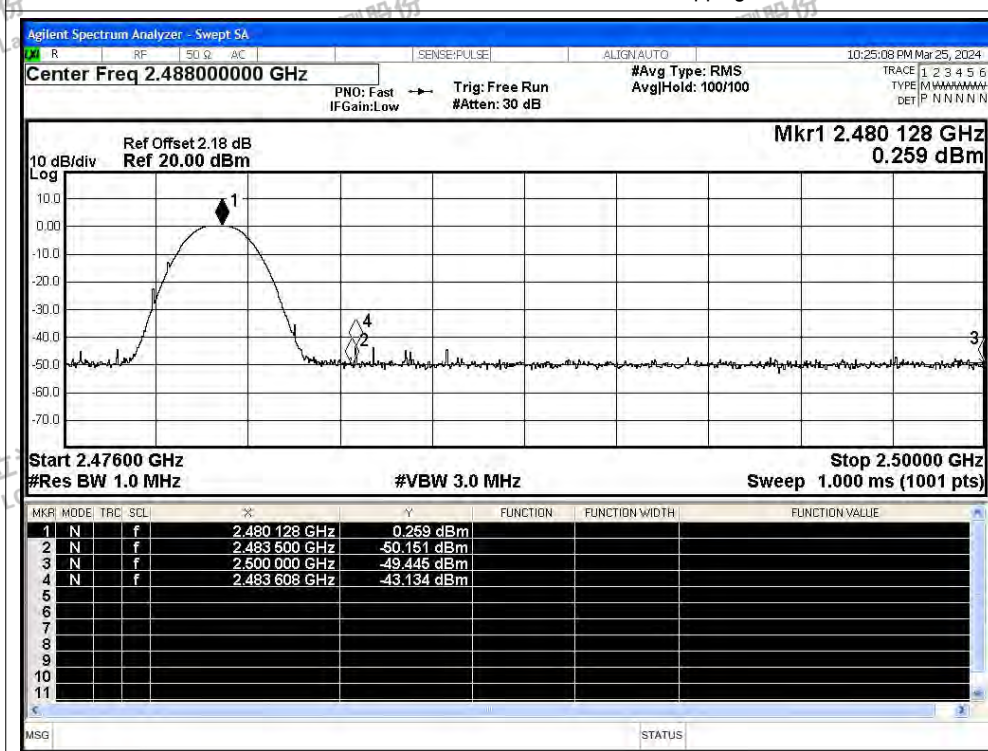
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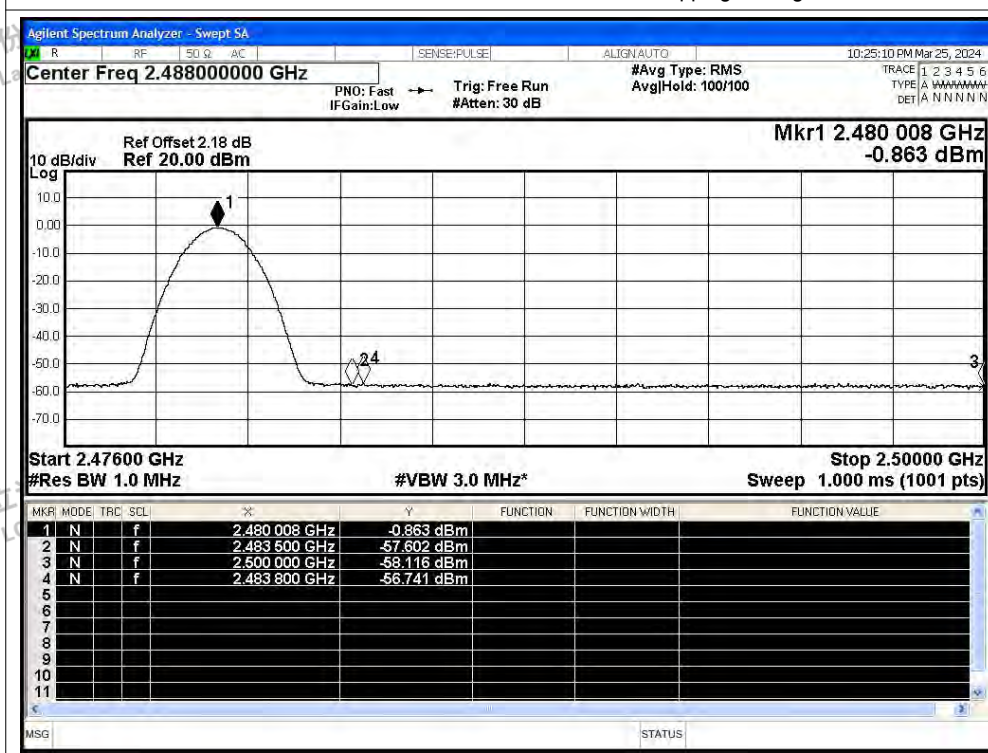
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

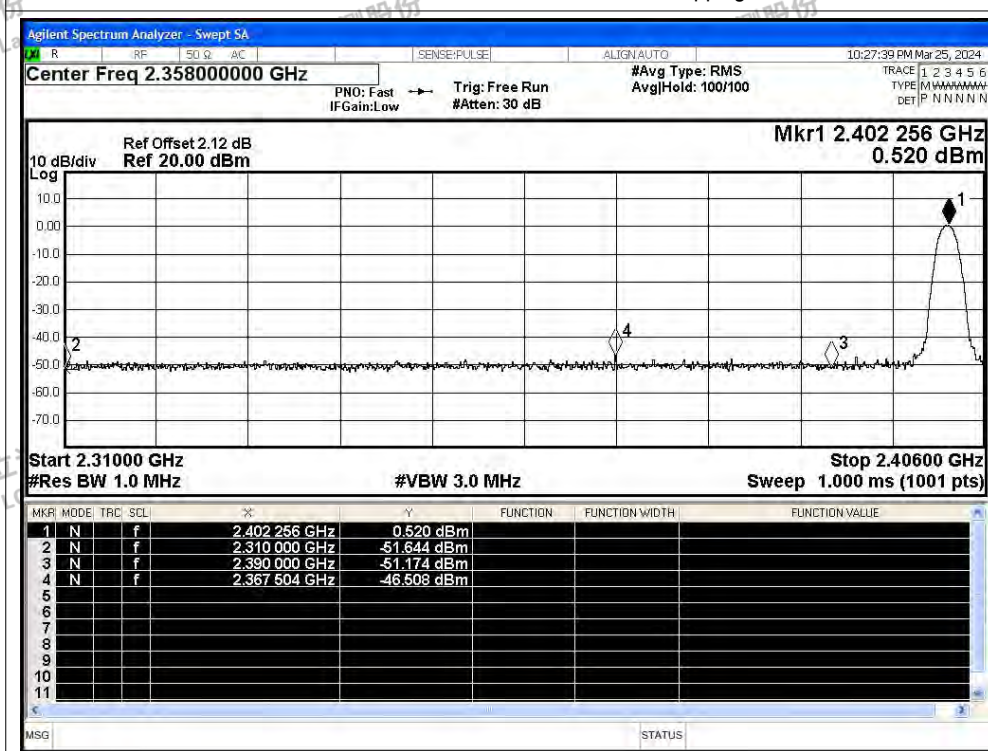
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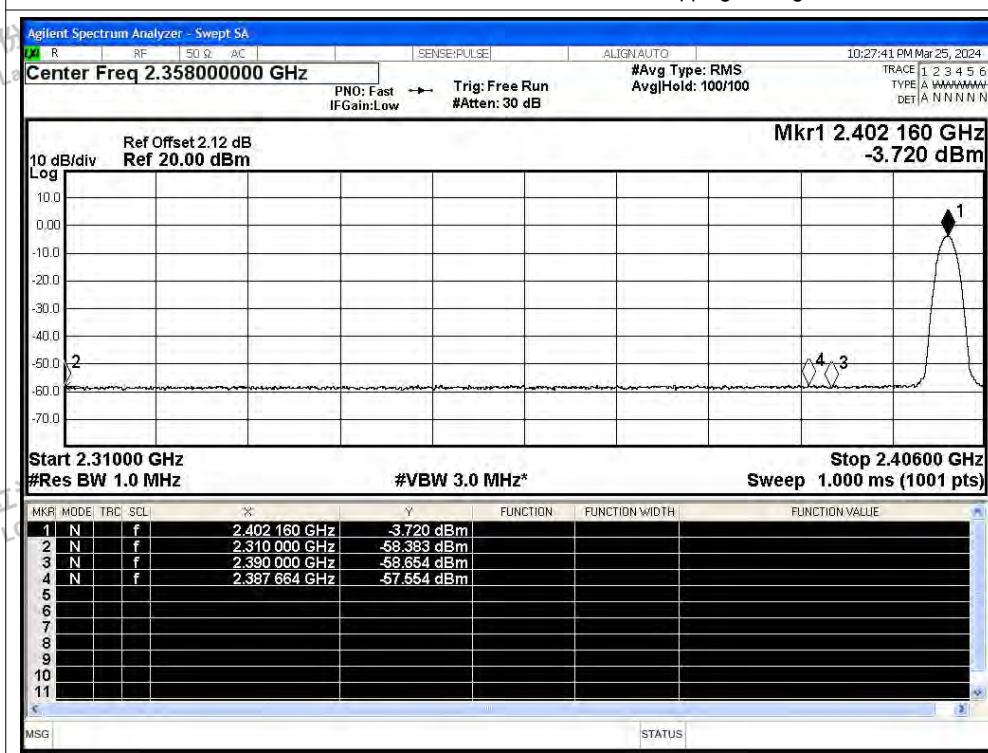
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

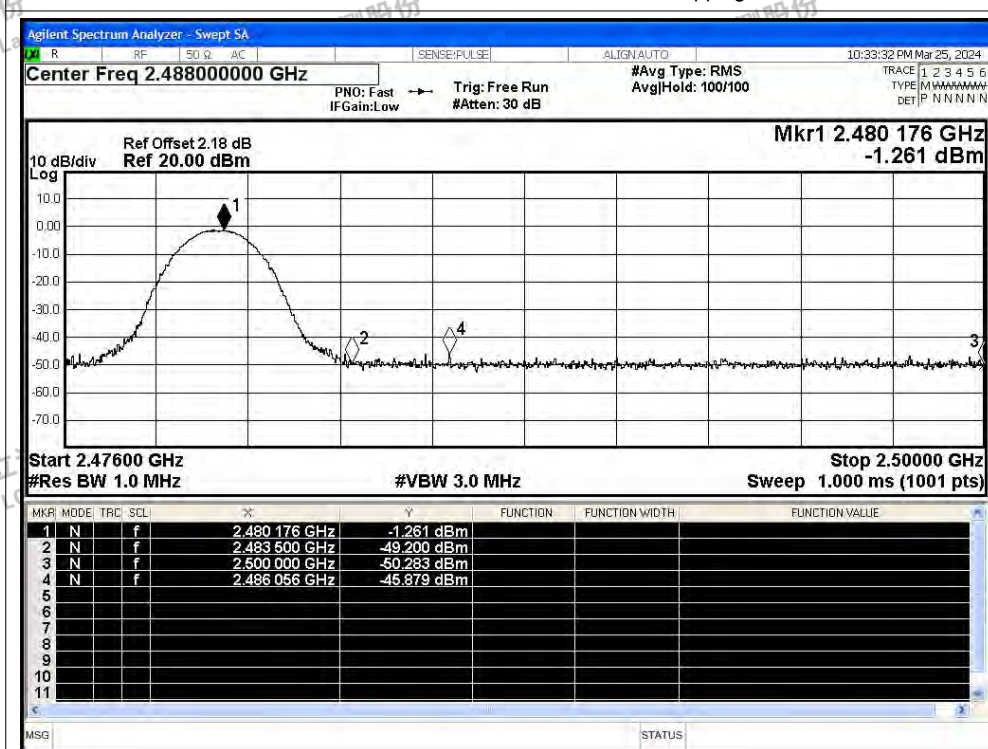
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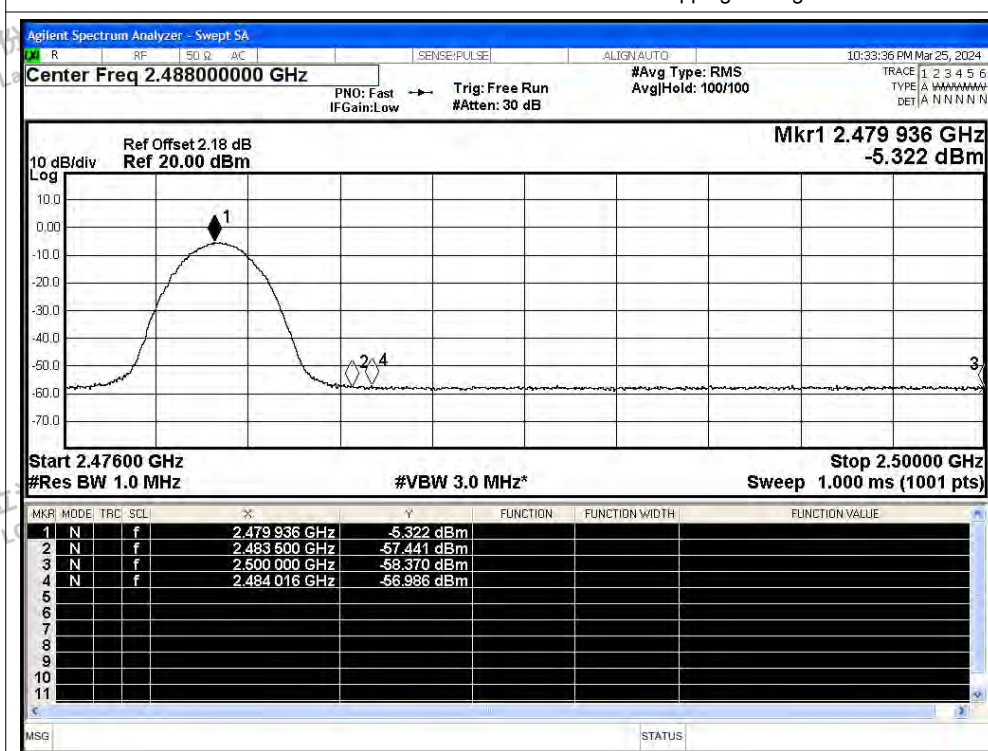
Scan code to check authenticity



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.

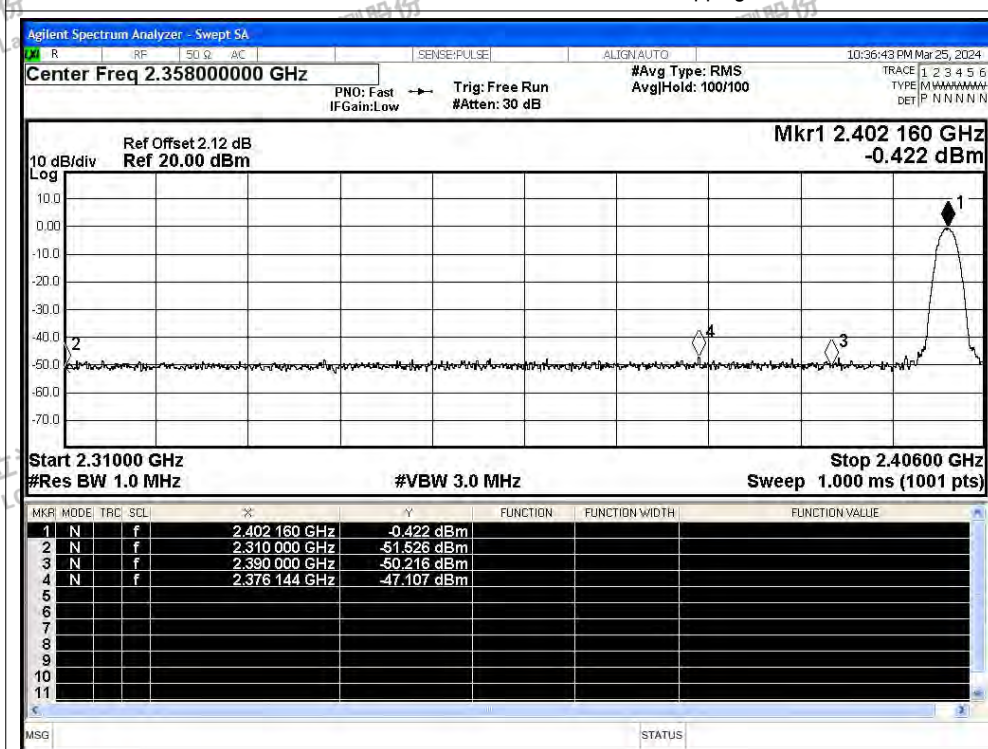
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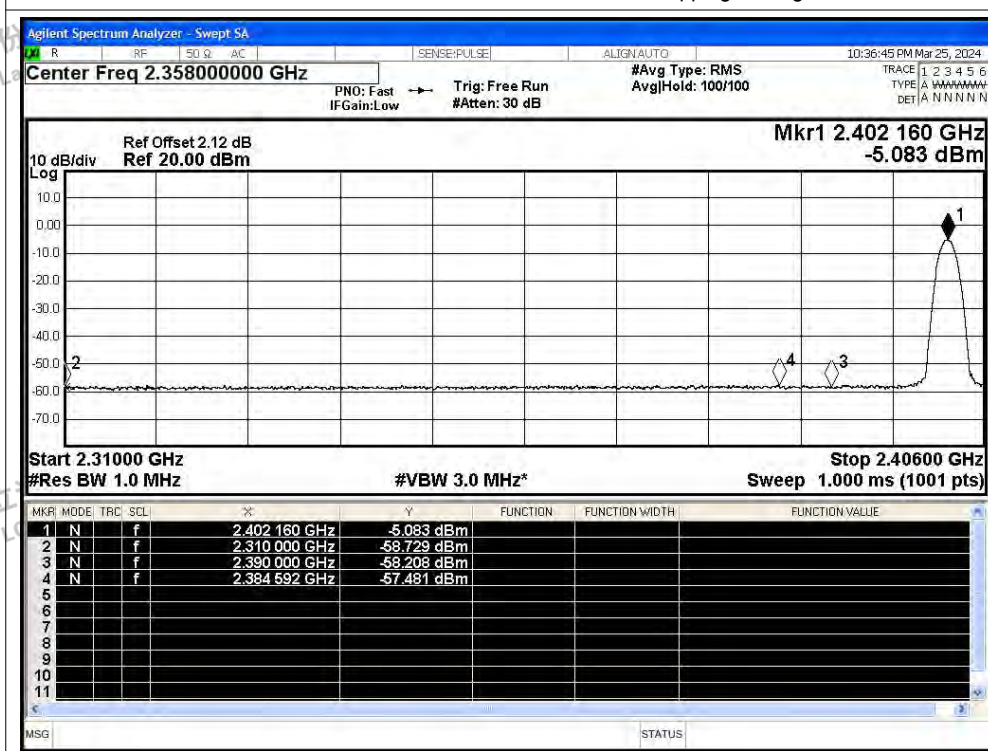
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

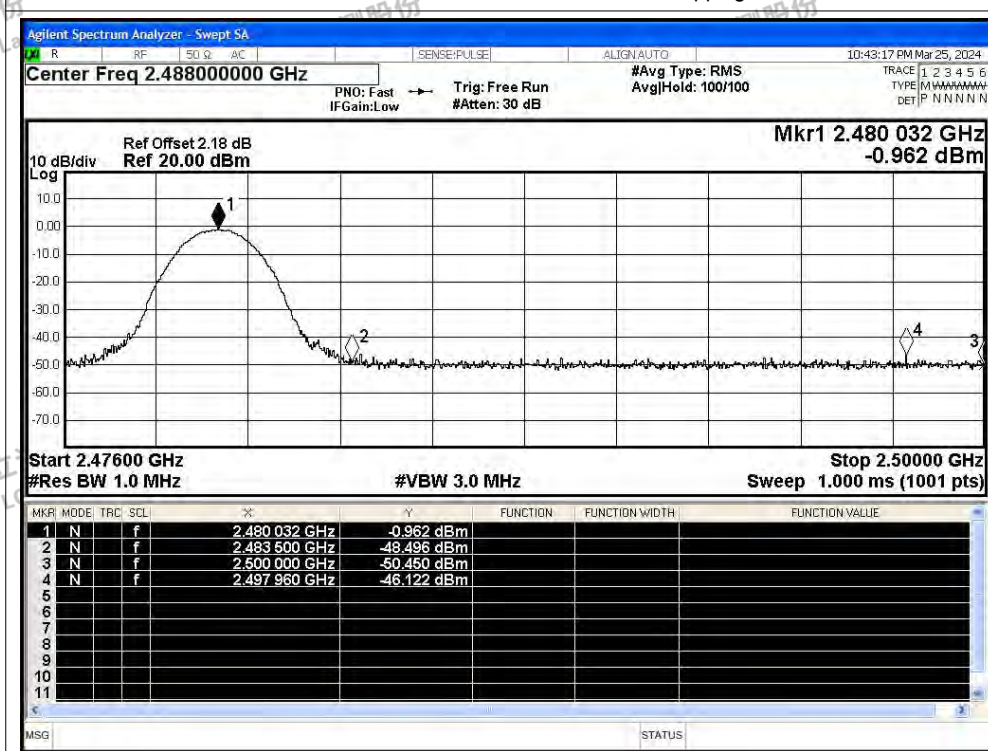
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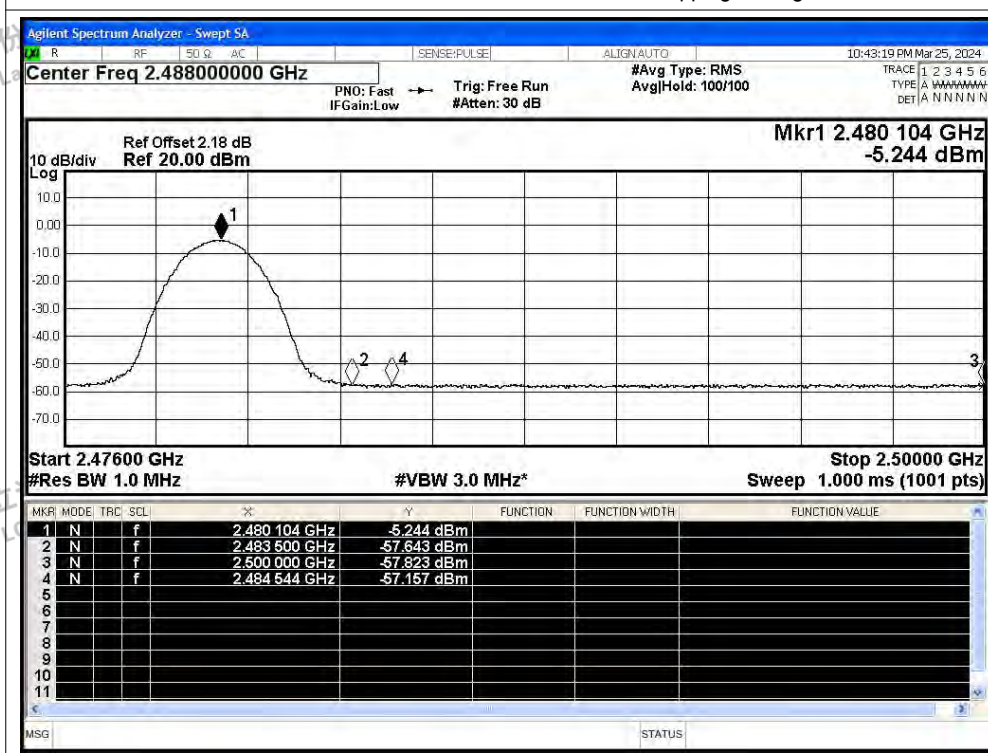
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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