



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart Watch

Test Model: F36

Environmental Conditions

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





A.1 -20dB Bandwidth

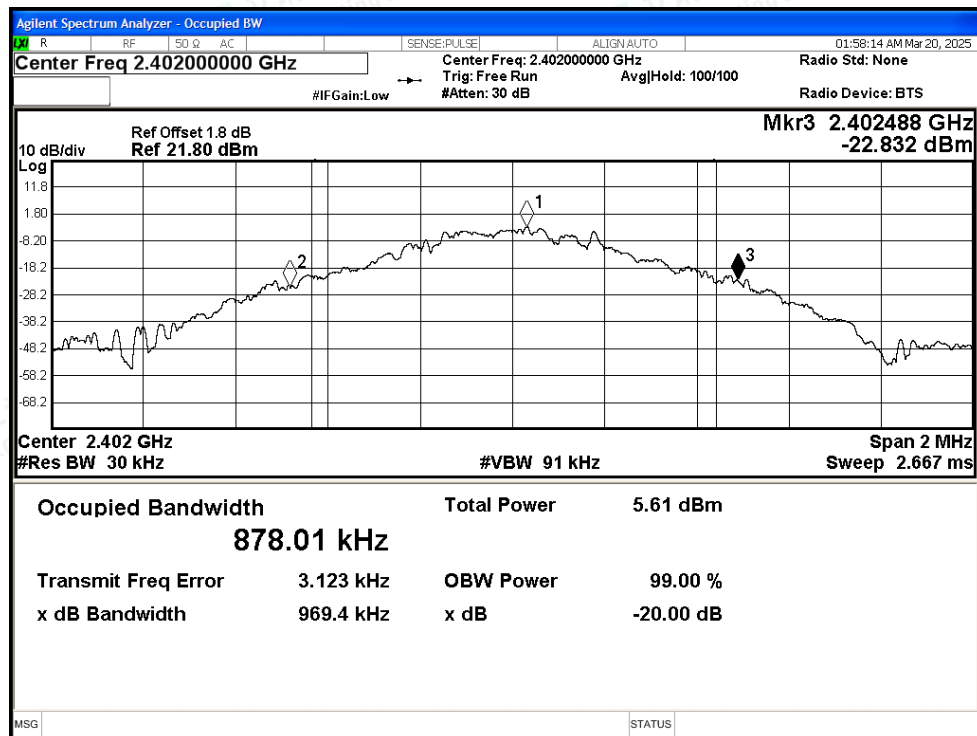
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.969	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.994	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.938	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.286	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.287	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.284	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.317	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.293	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.297	N/A	Pass



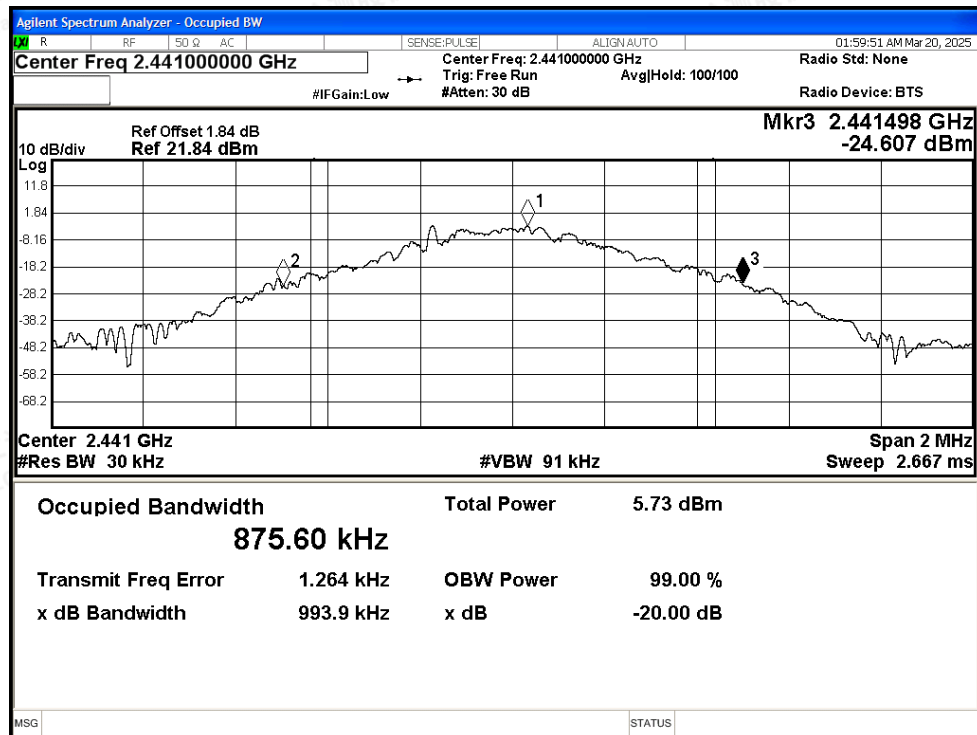


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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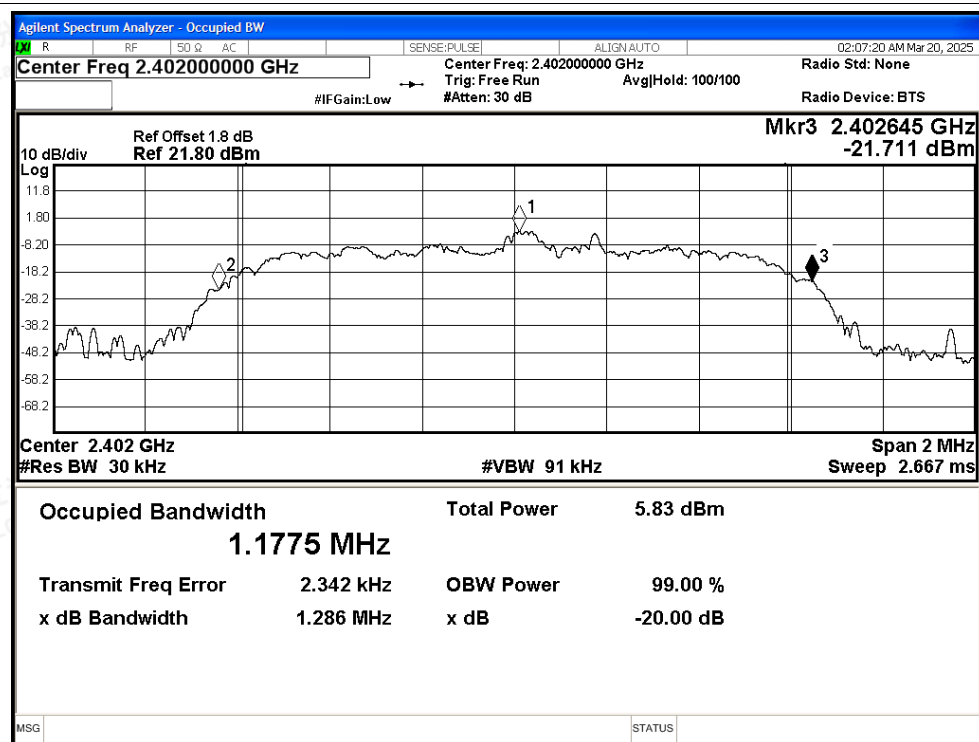
Scan code to check authenticity



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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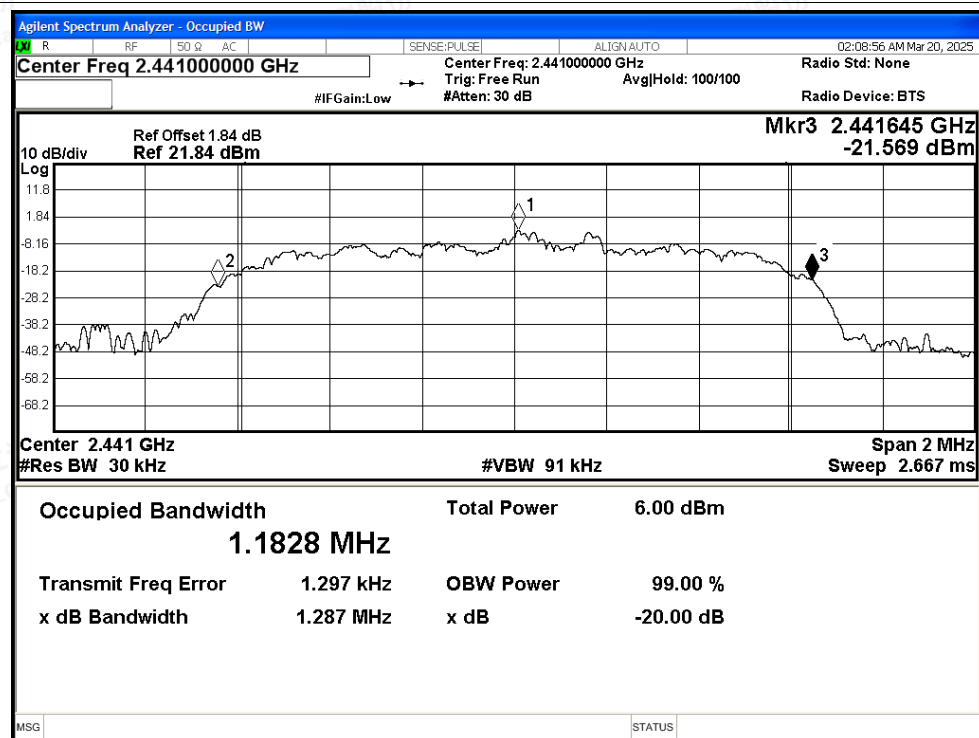
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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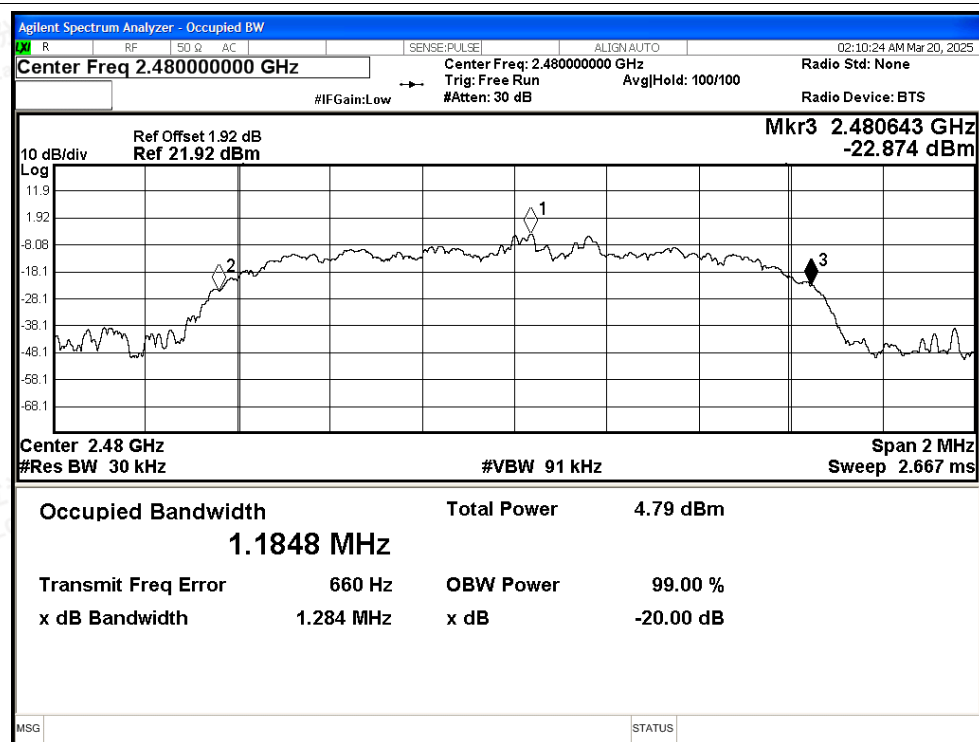
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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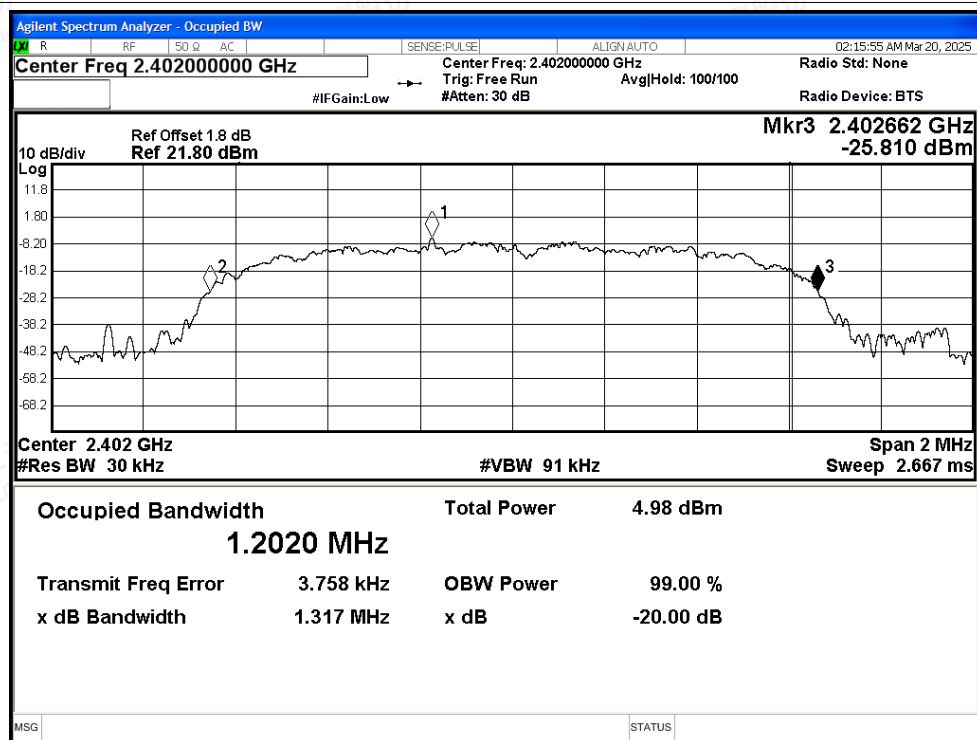
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

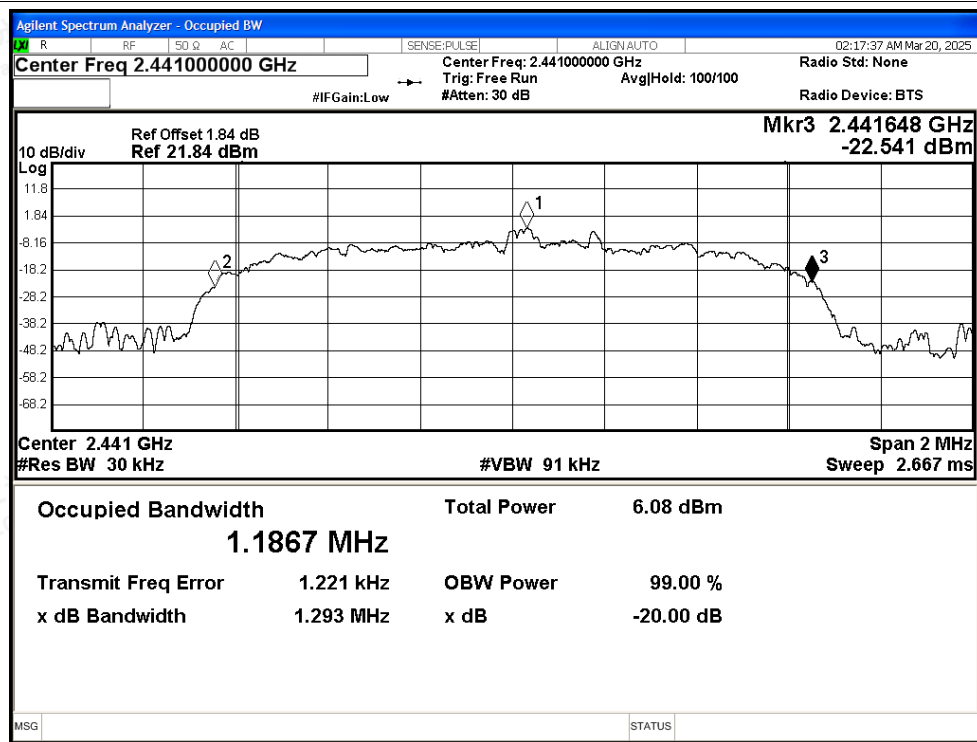
Scan code to check authenticity



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

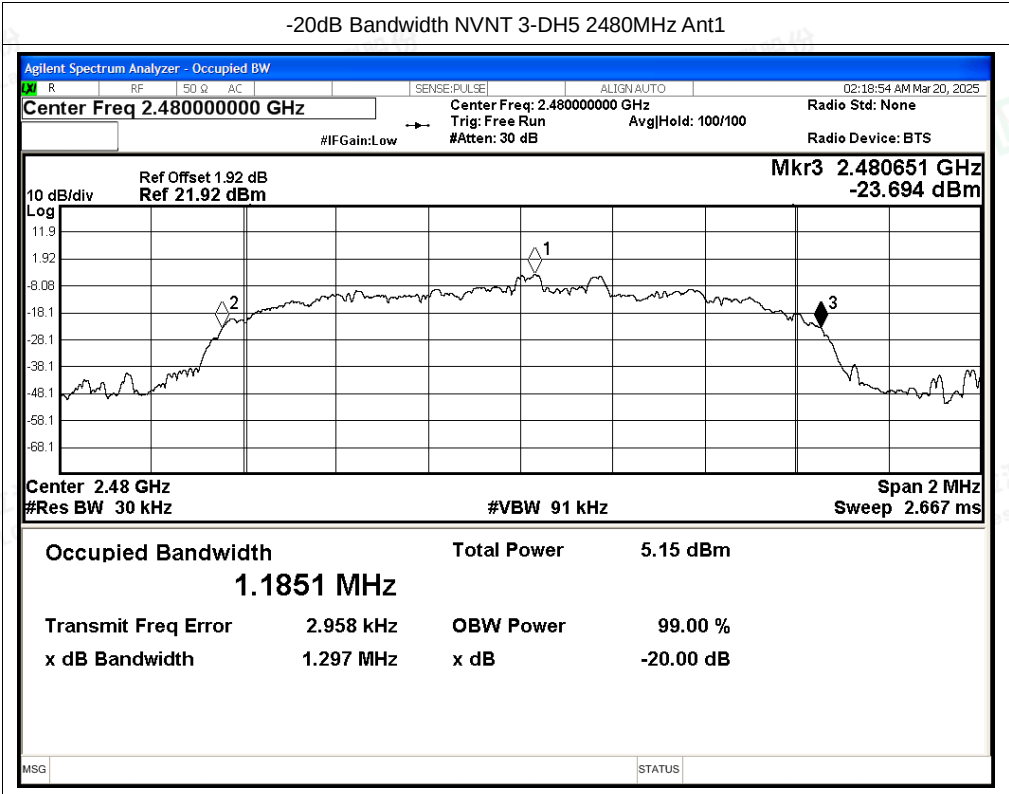


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.54	21	Pass
NVNT	1-DH5	2441	Ant1	-0.28	21	Pass
NVNT	1-DH5	2480	Ant1	-1.43	21	Pass
NVNT	2-DH5	2402	Ant1	1.35	21	Pass
NVNT	2-DH5	2441	Ant1	1.56	21	Pass
NVNT	2-DH5	2480	Ant1	0.47	21	Pass
NVNT	3-DH5	2402	Ant1	1.78	21	Pass
NVNT	3-DH5	2441	Ant1	1.97	21	Pass
NVNT	3-DH5	2480	Ant1	0.84	21	Pass



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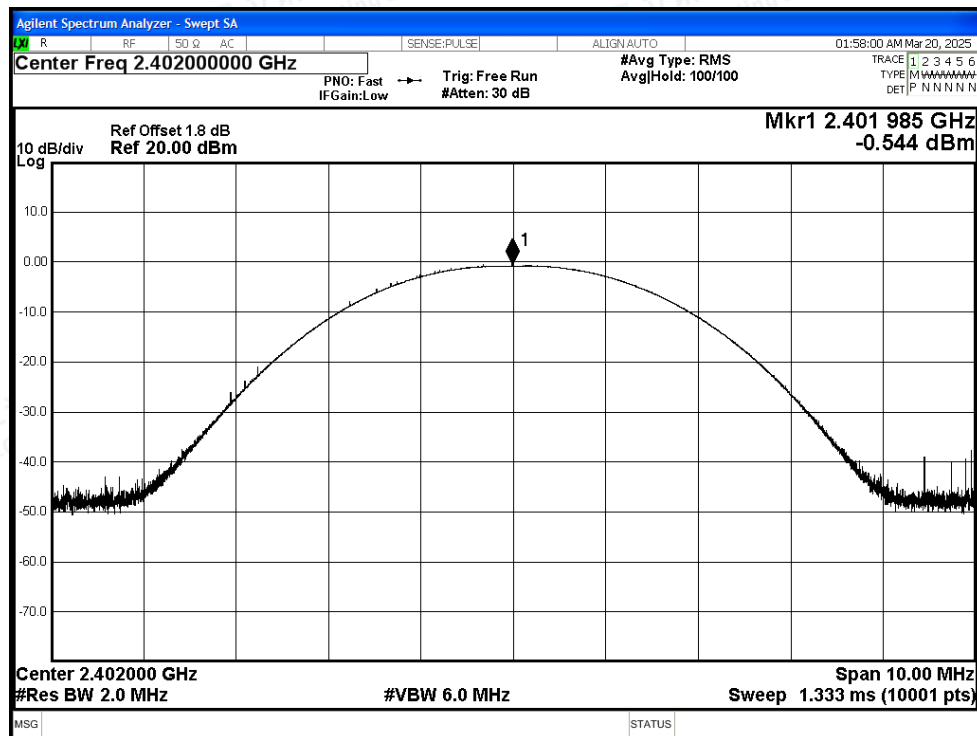
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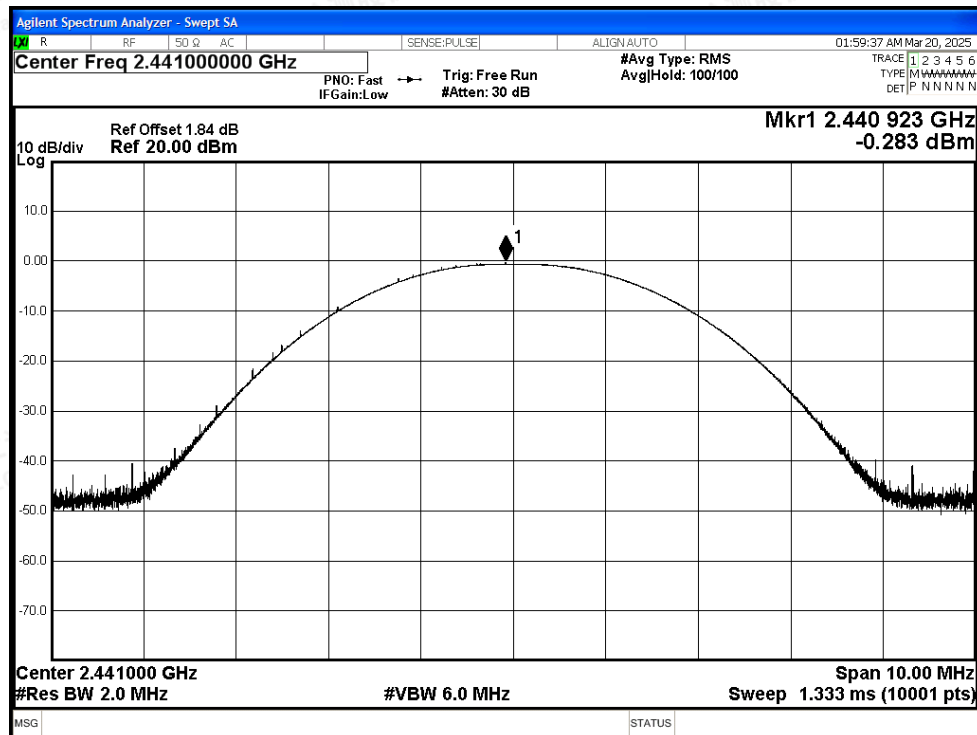


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

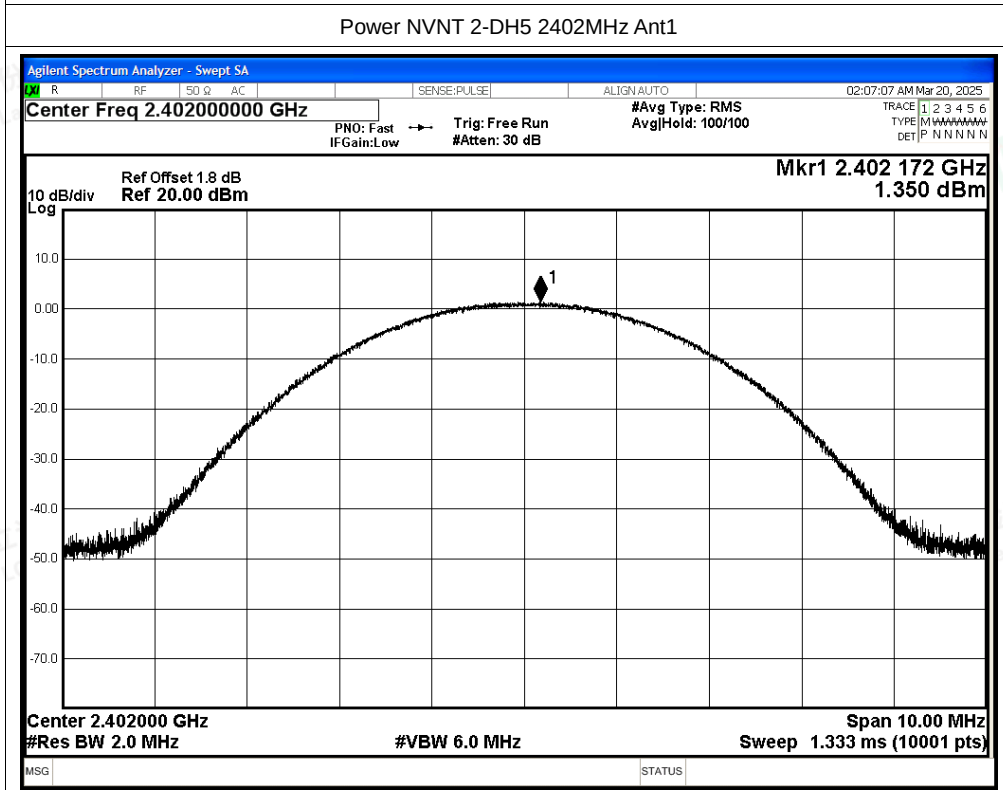
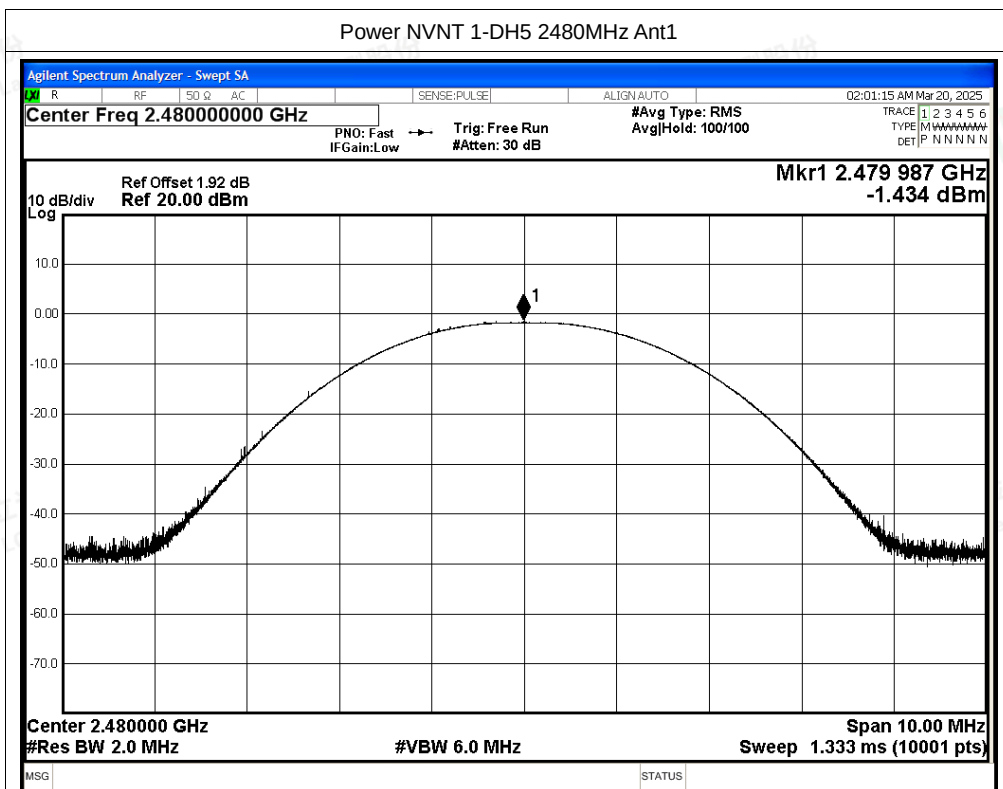


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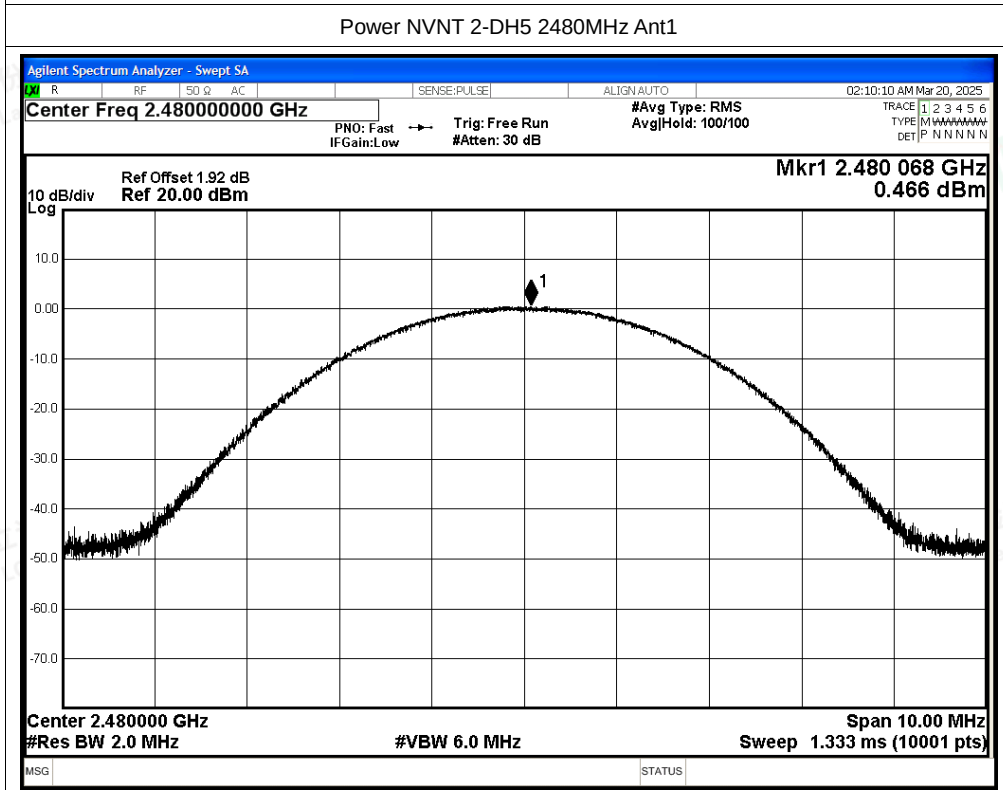
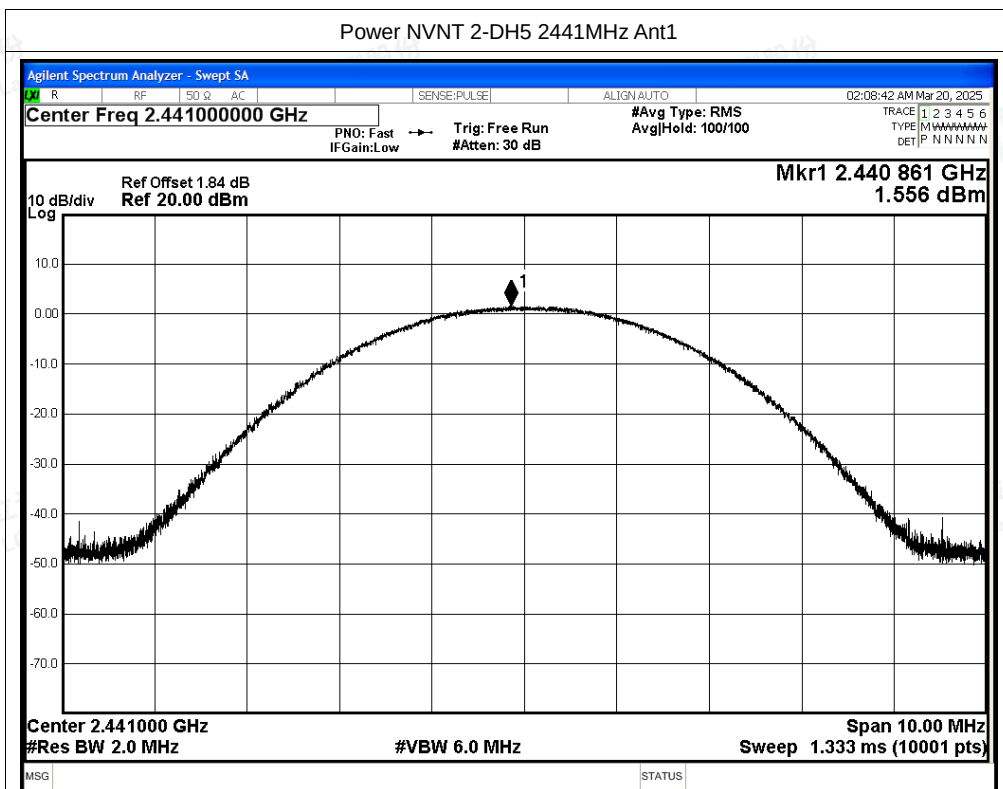


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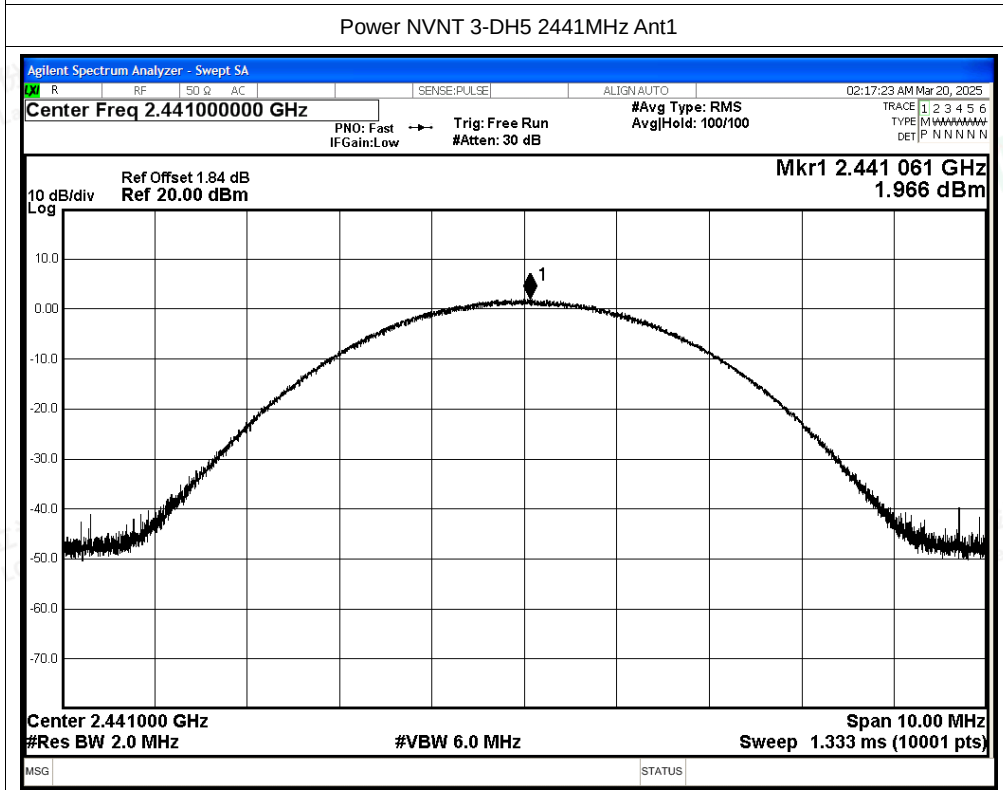
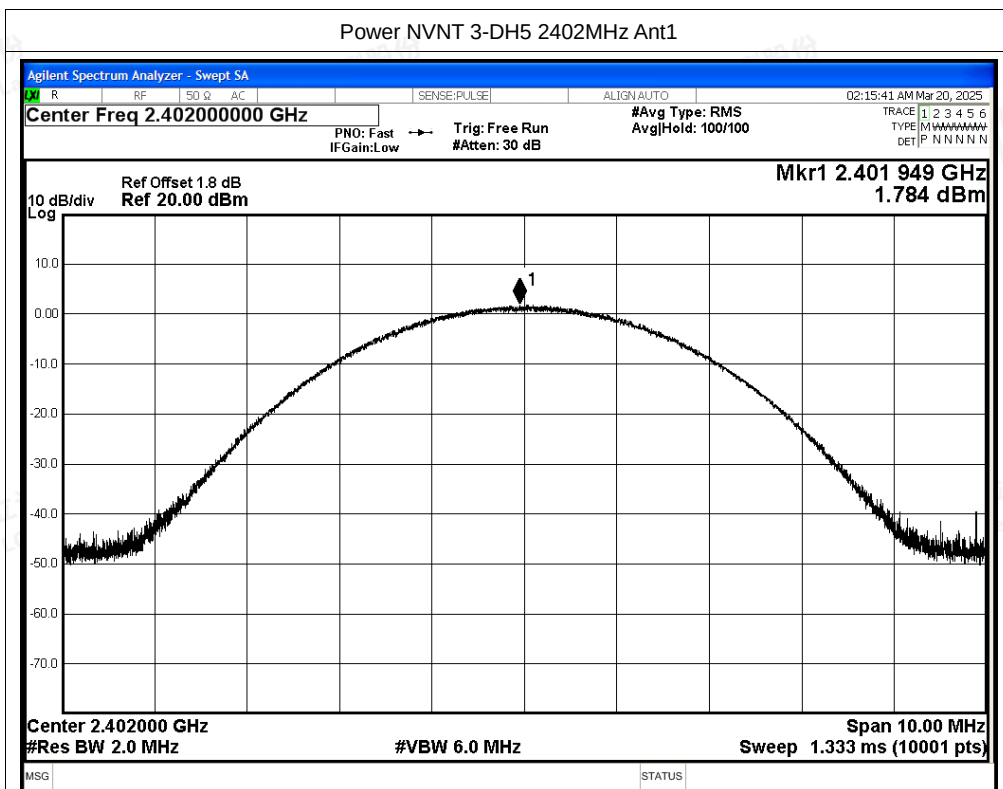


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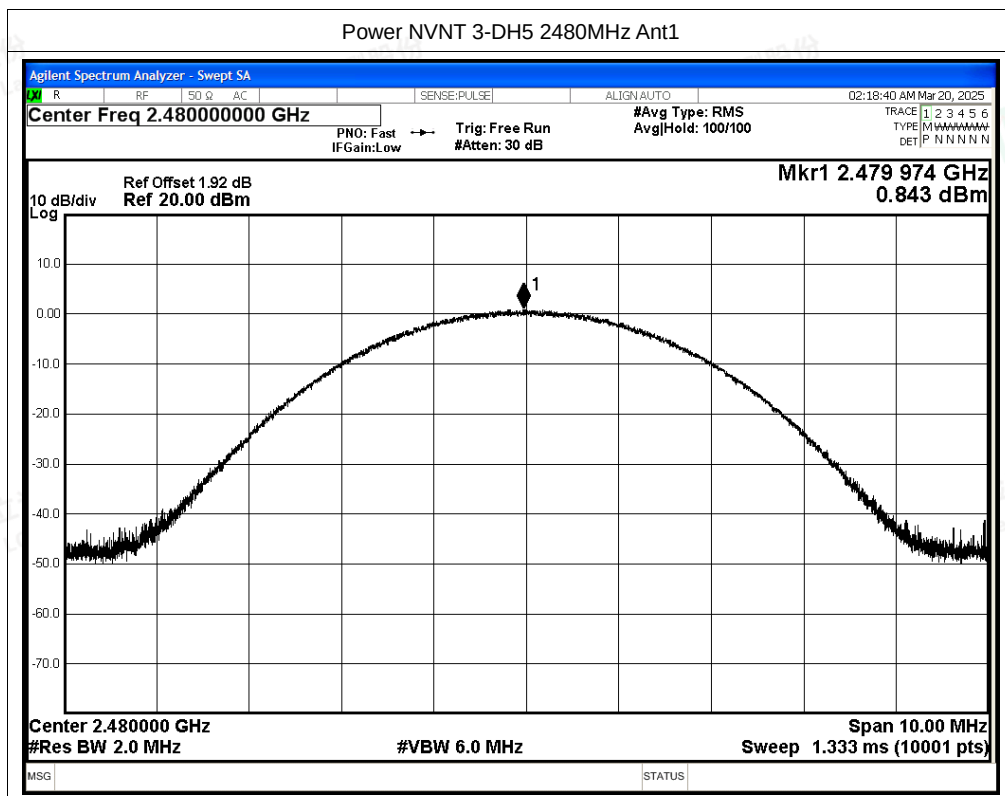


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.996	2403.016	1.02	0.663	Pass
NVNT	2-DH5	Ant1	2402.03	2403.014	0.984	0.858	Pass
NVNT	3-DH5	Ant1	2402.014	2403.106	1.092	0.878	Pass



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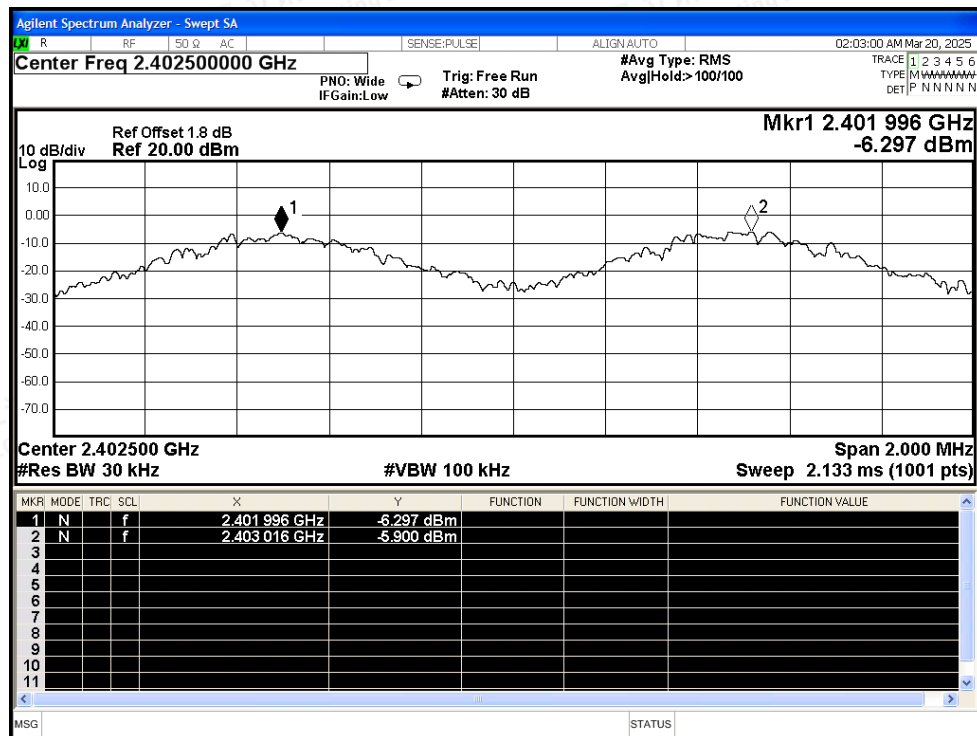
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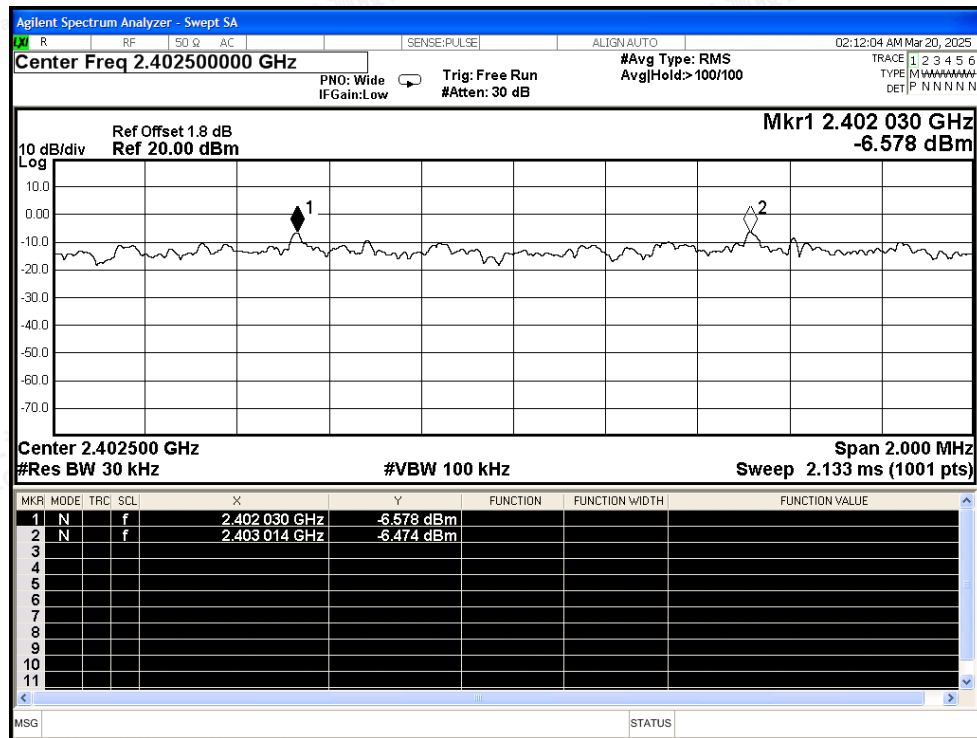


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

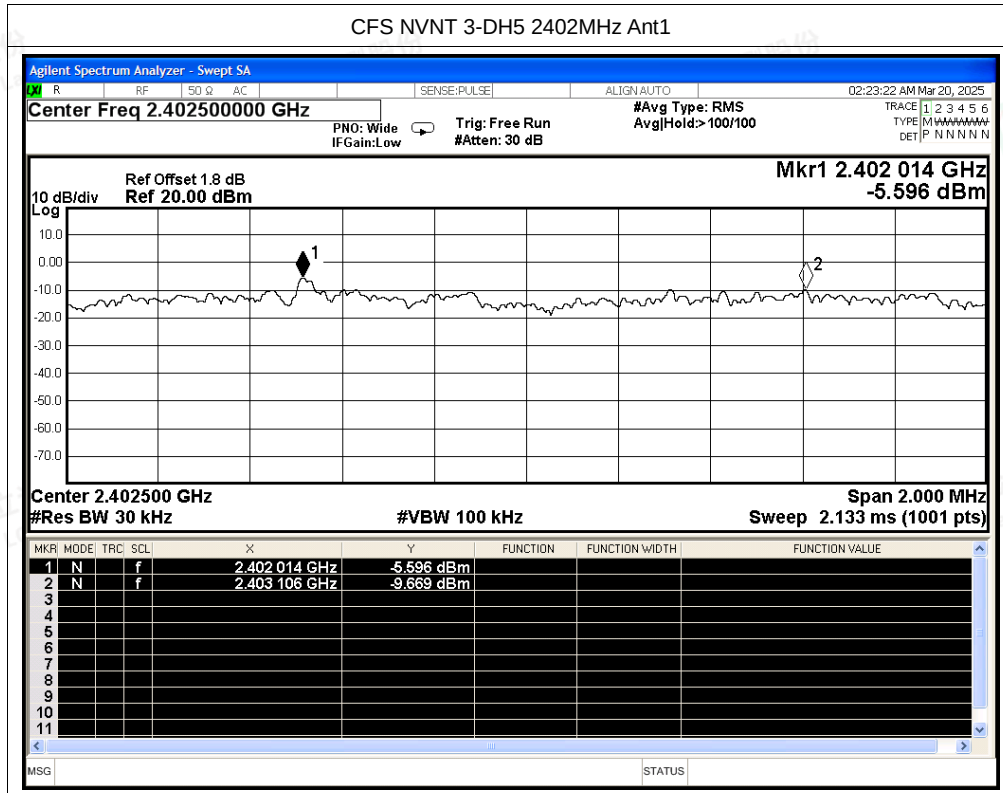


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A.4 Dwell Time

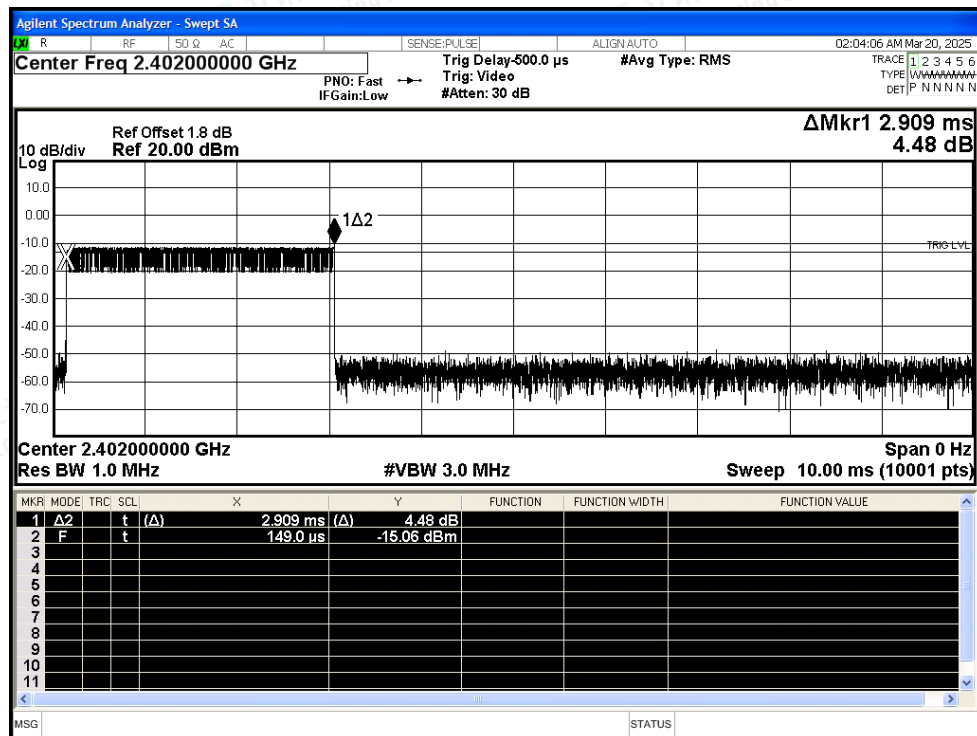
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.909	299.627	103	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	312.984	108	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	324.464	112	31600	400	Pass



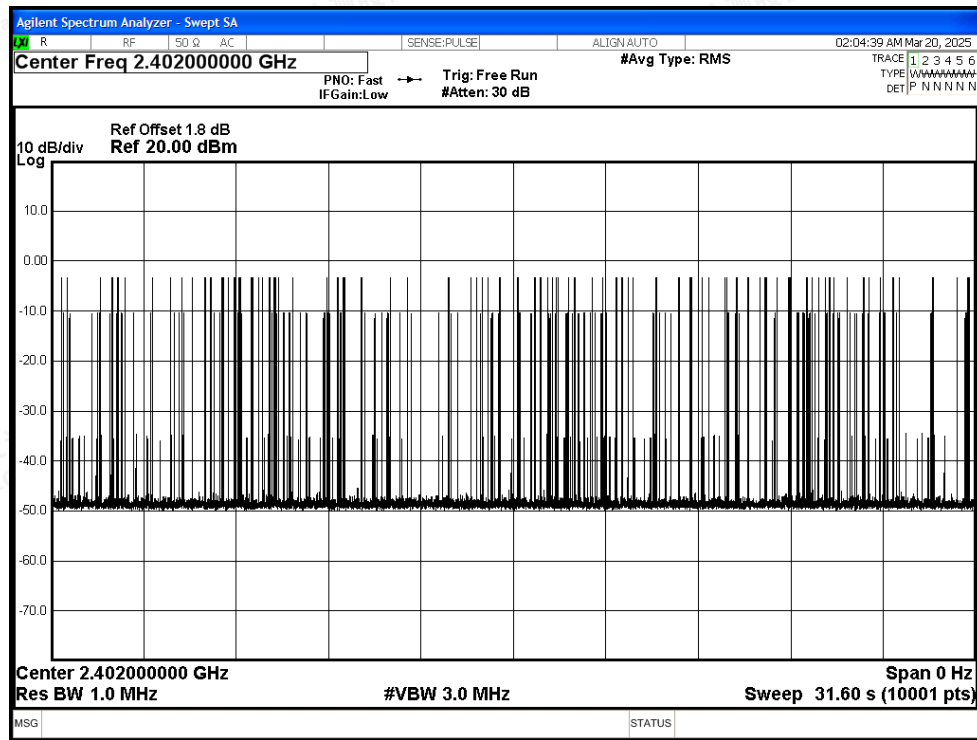


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

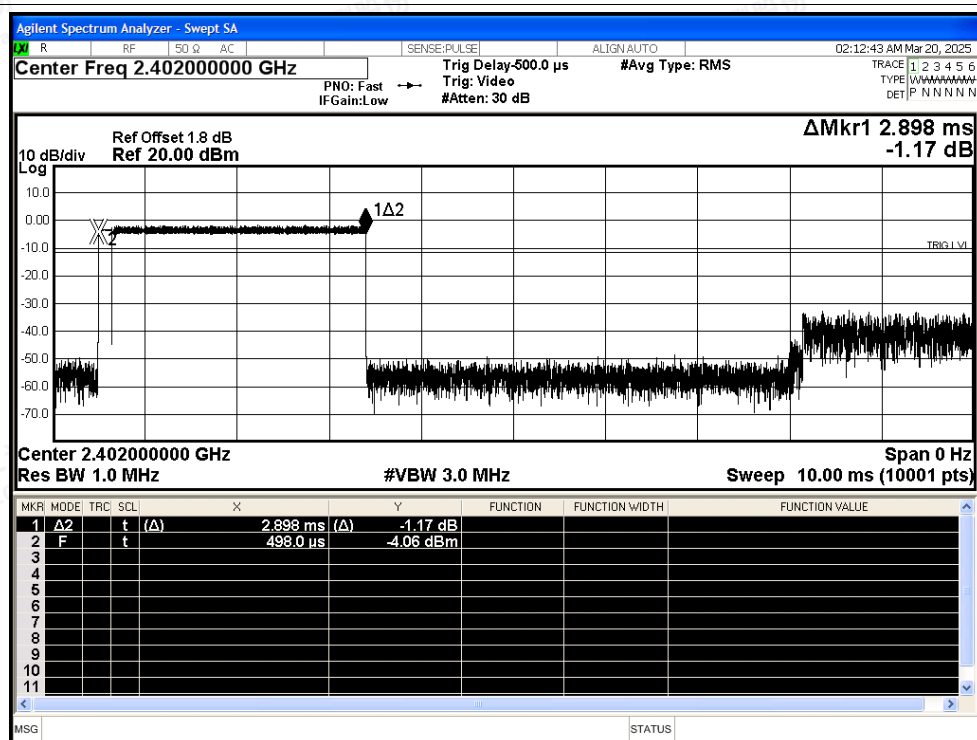
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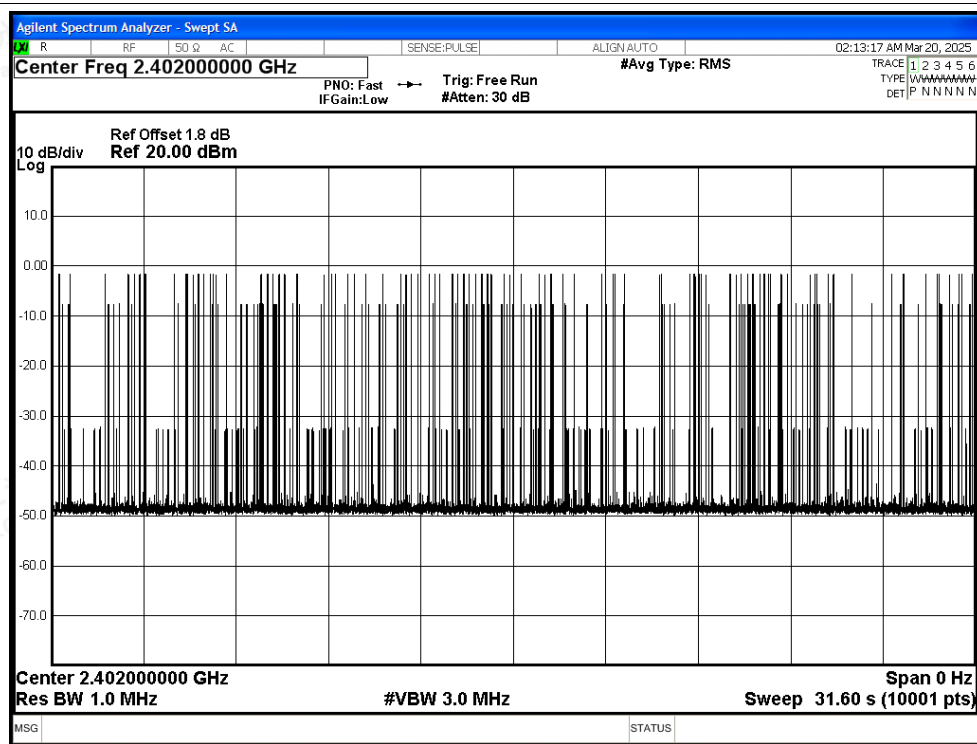
Scan code to check authenticity



Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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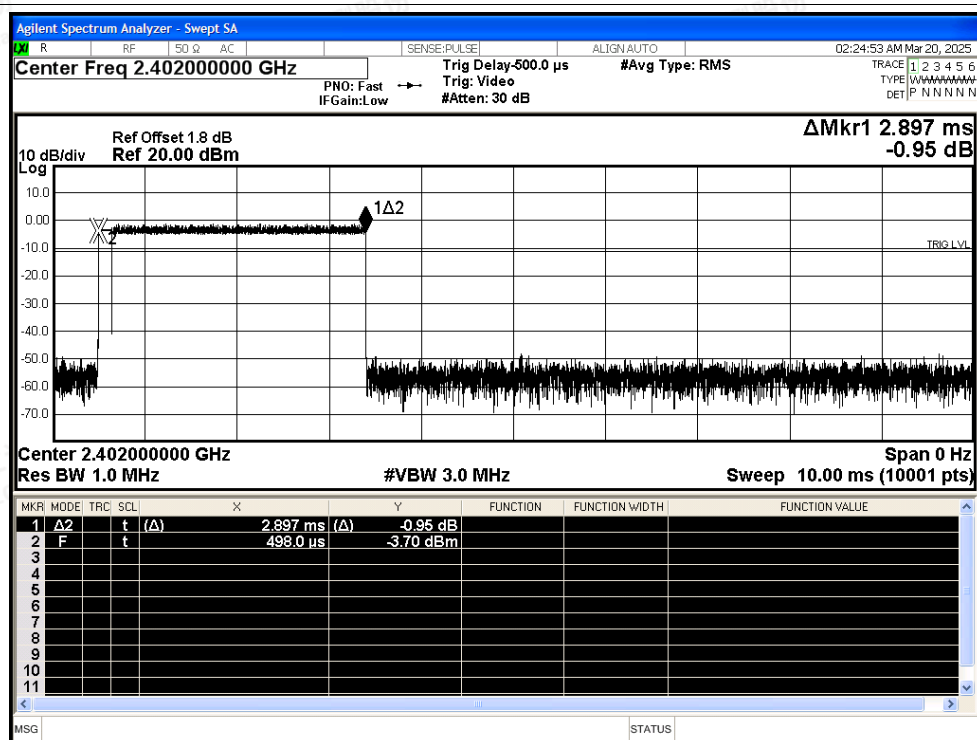
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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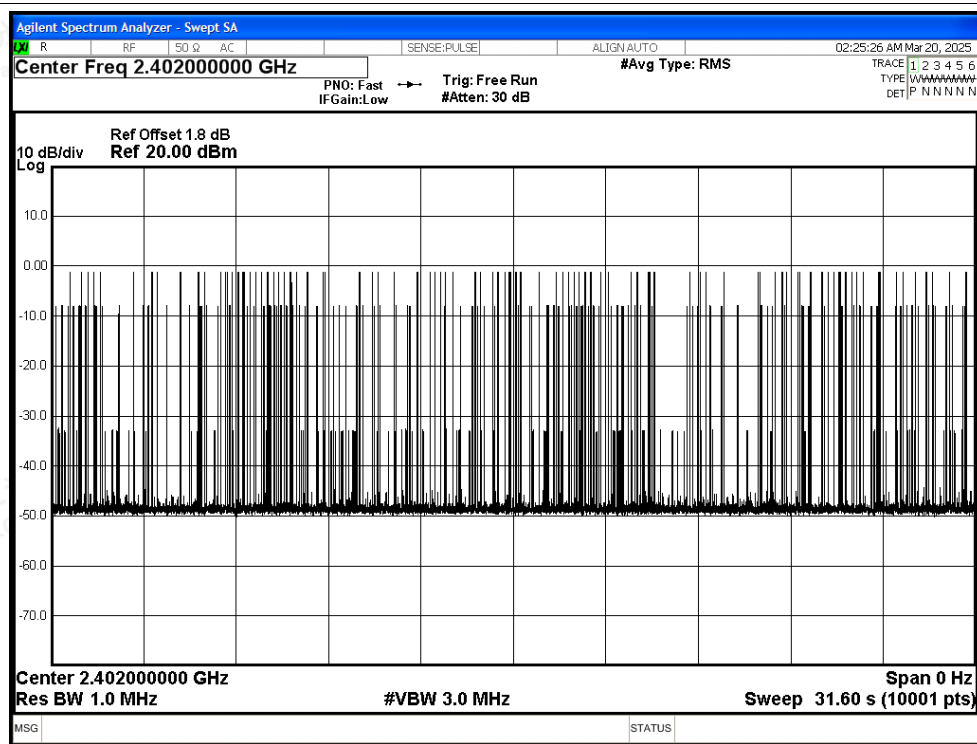
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

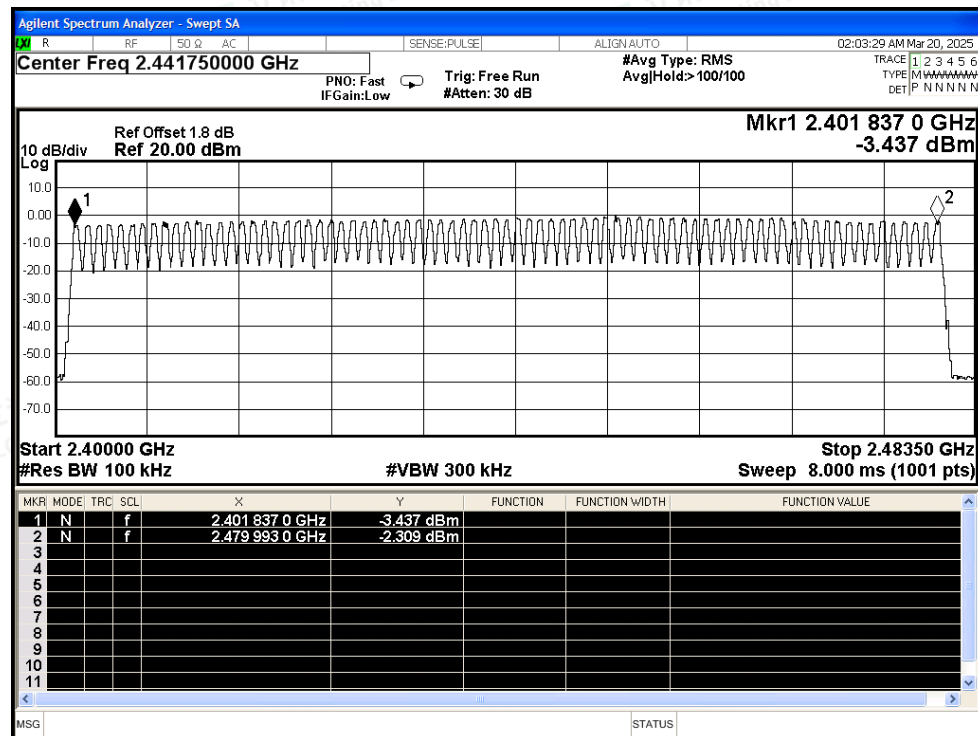
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



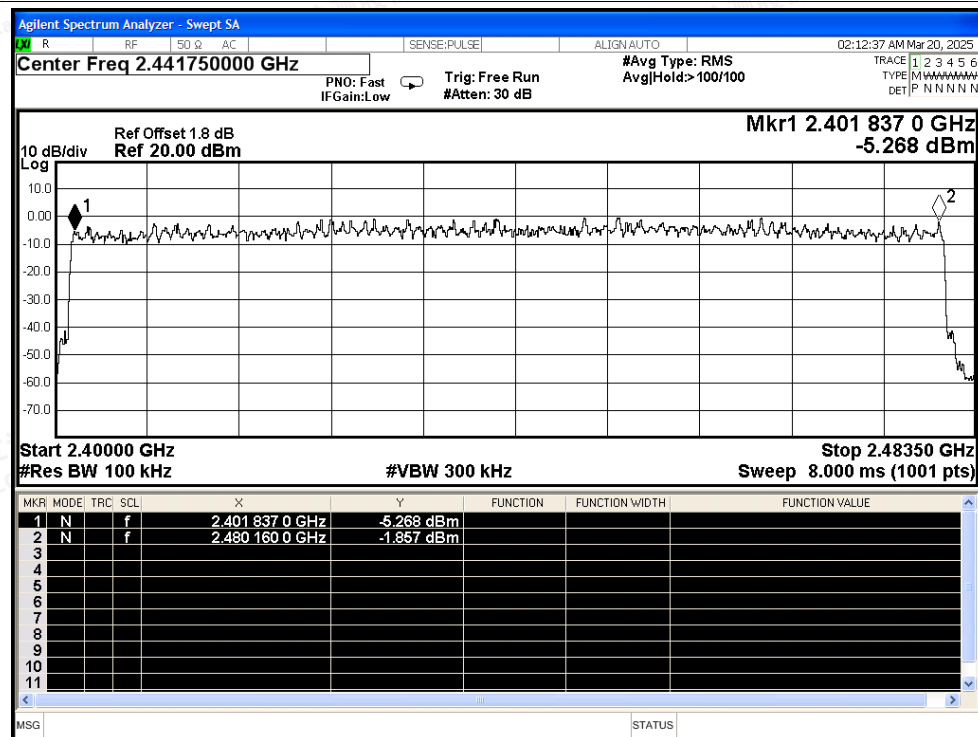


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

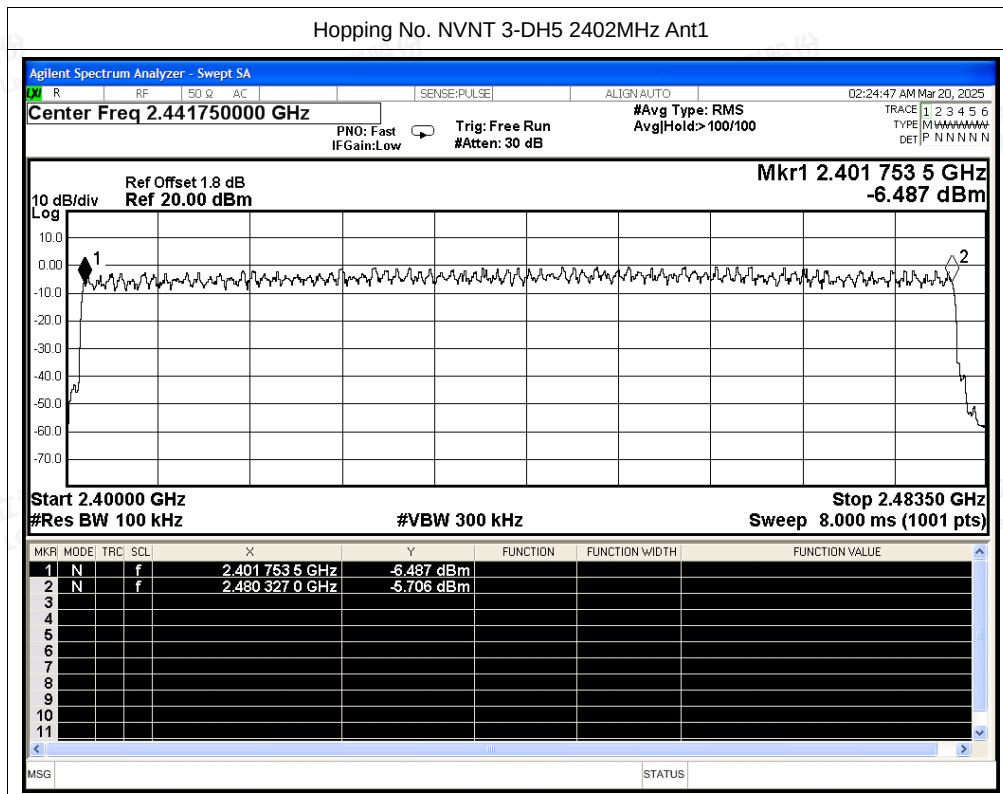


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.12	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.3	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.62	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.84	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-50.78	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.82	-20	Pass



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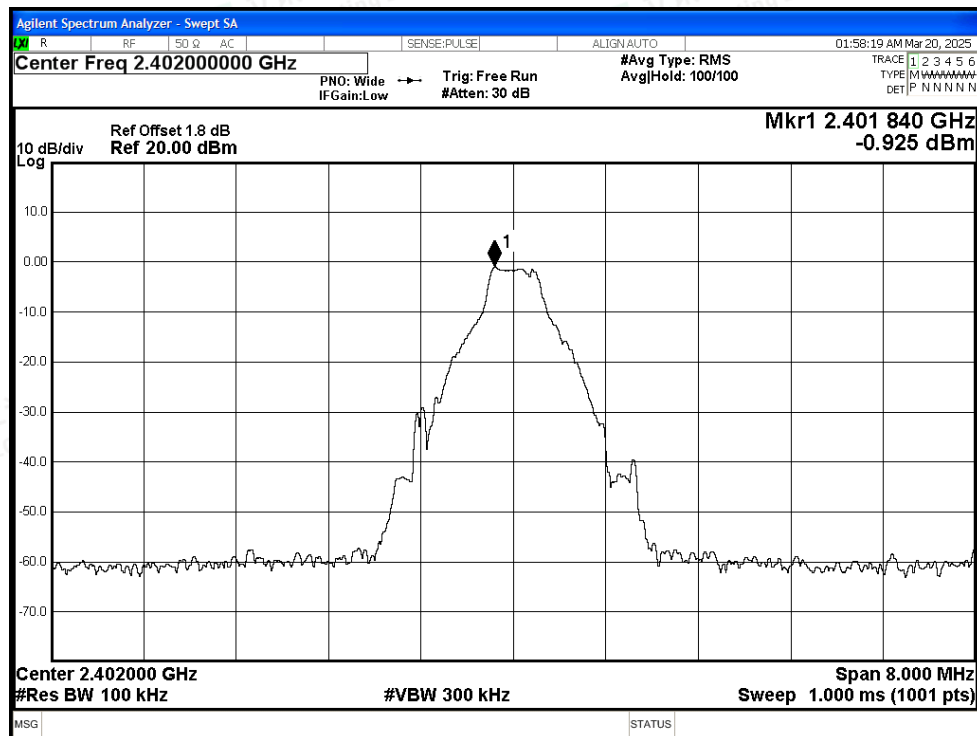
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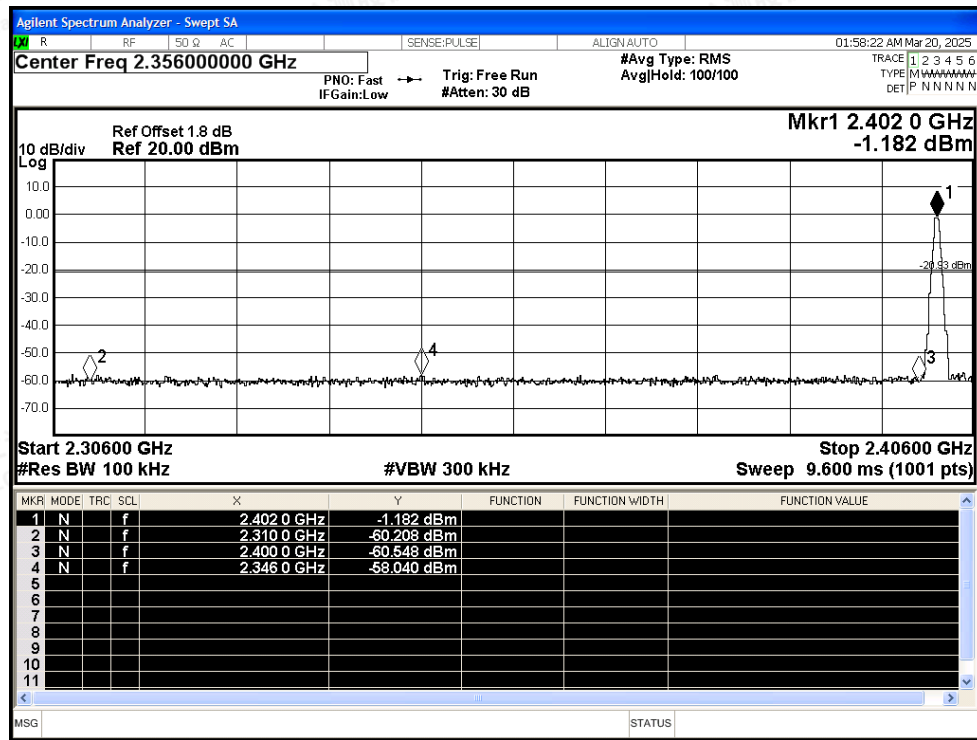


Test Graphs

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



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

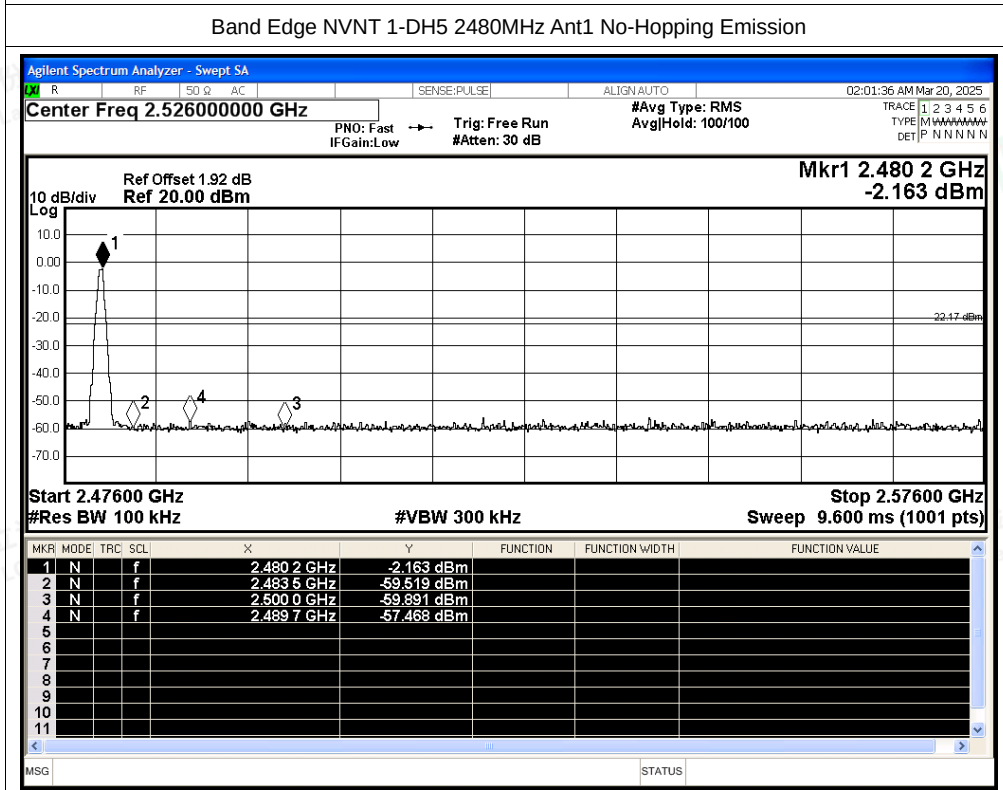
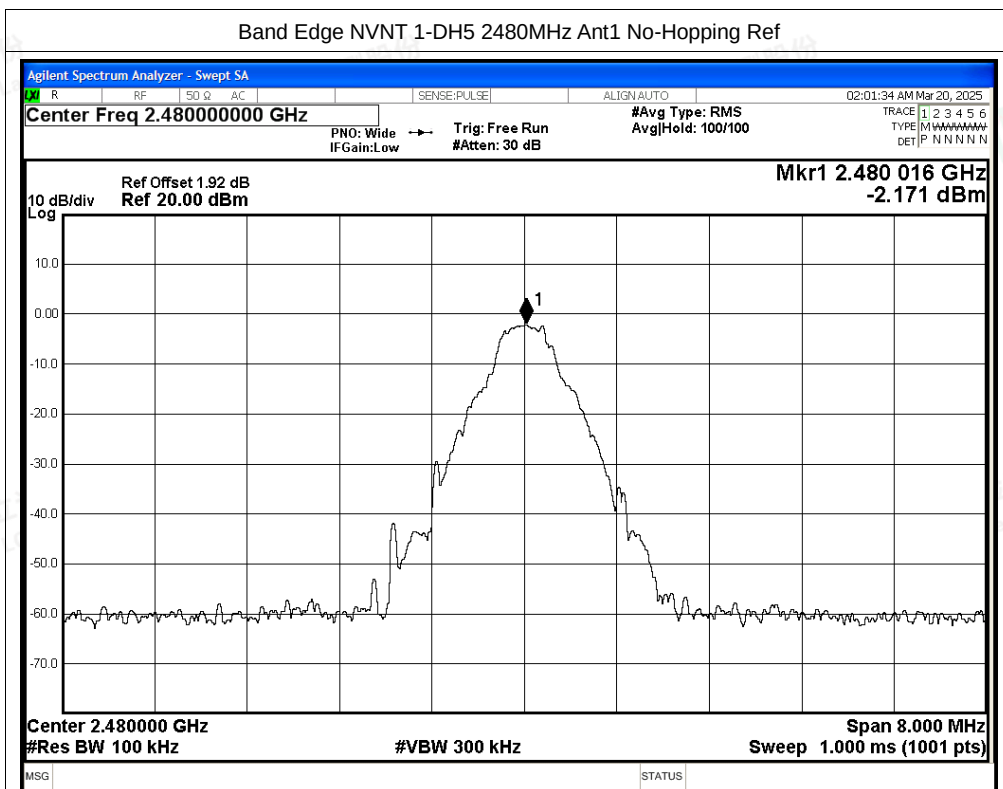


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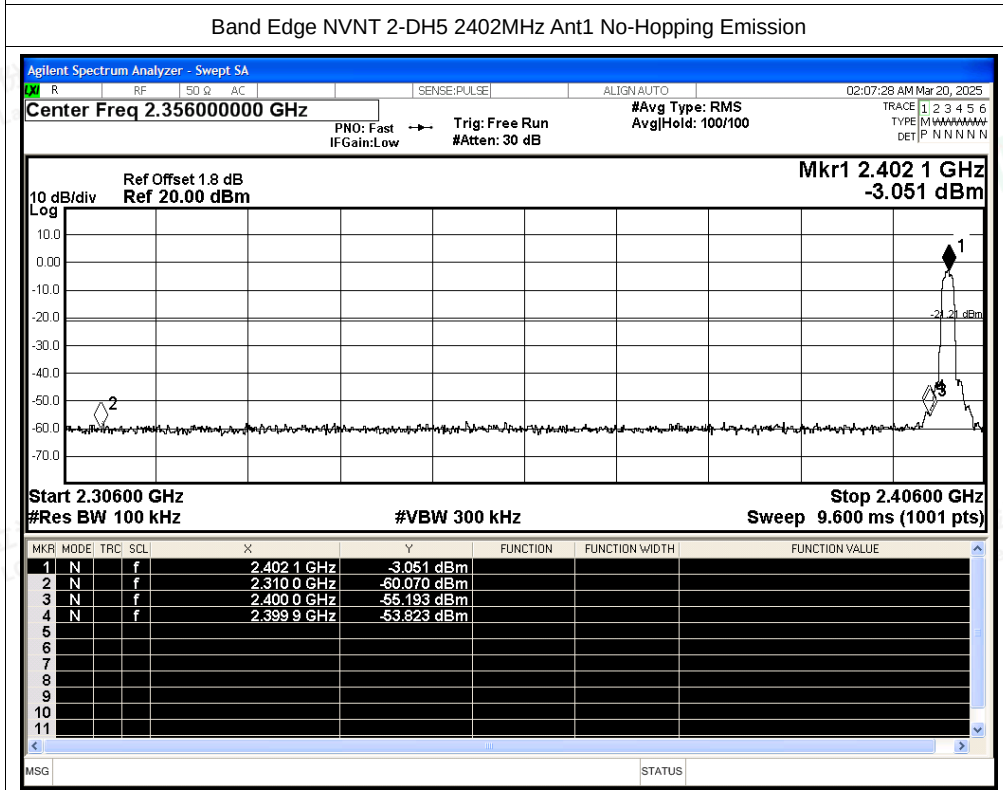
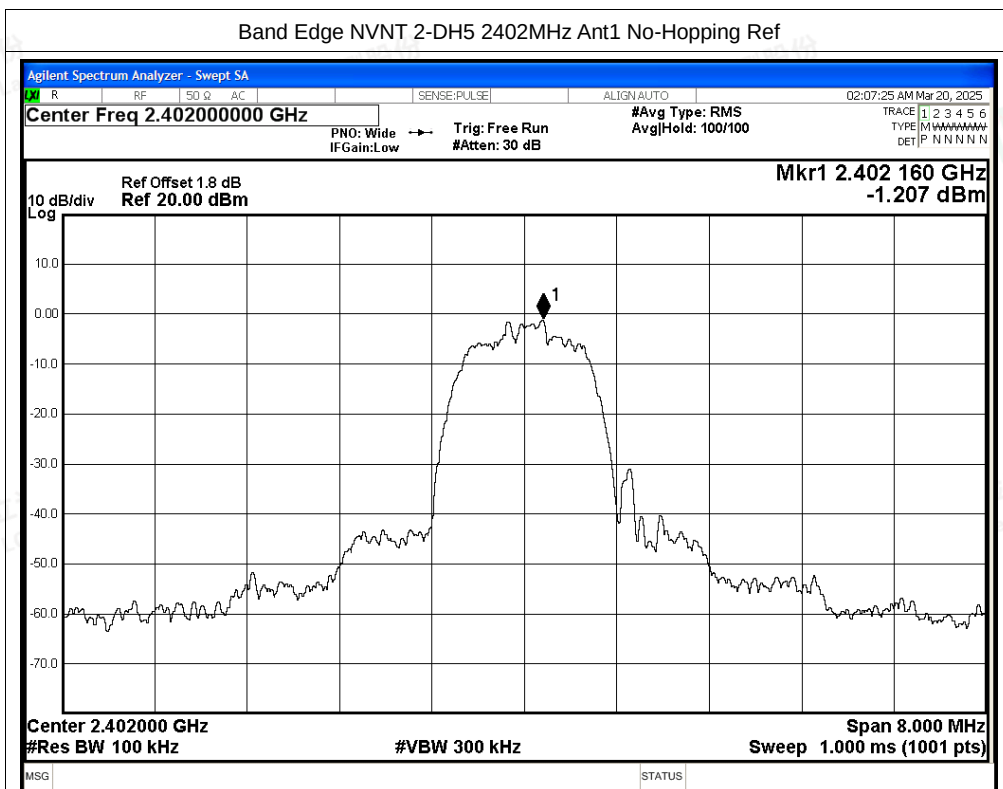


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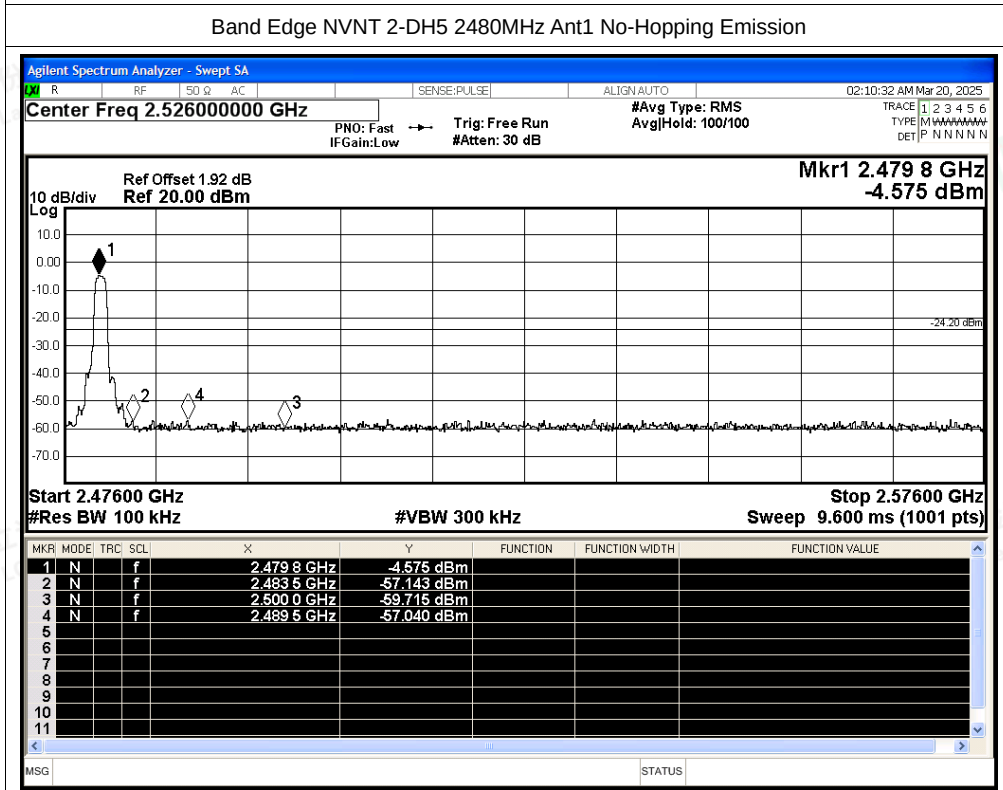
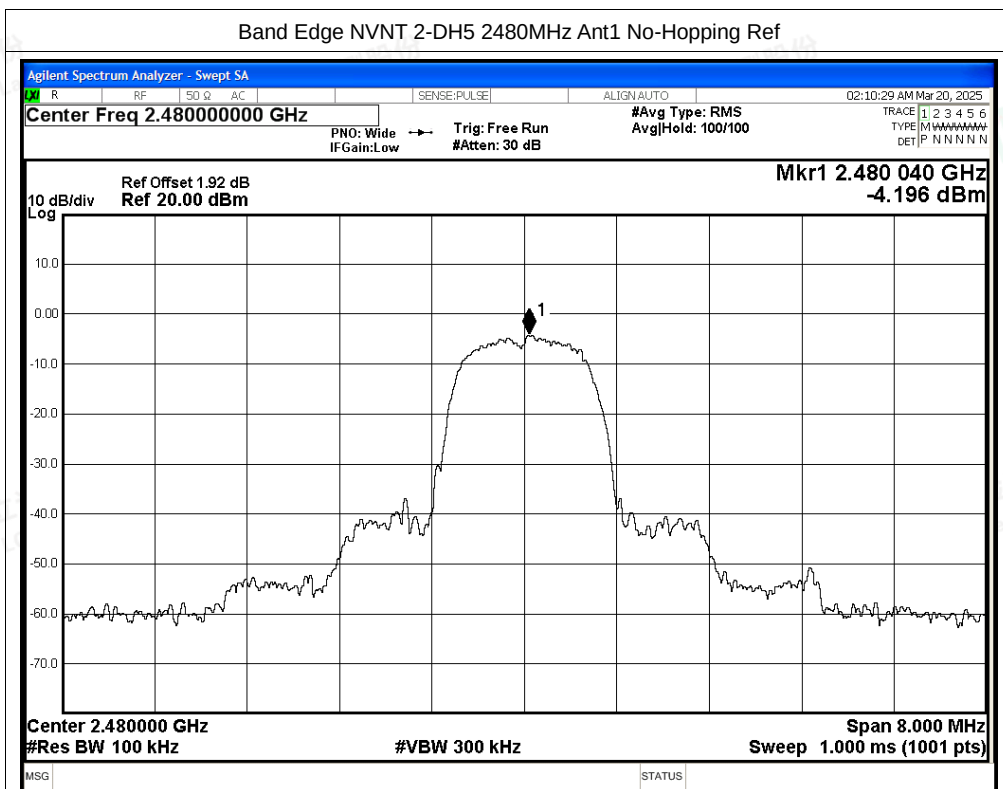


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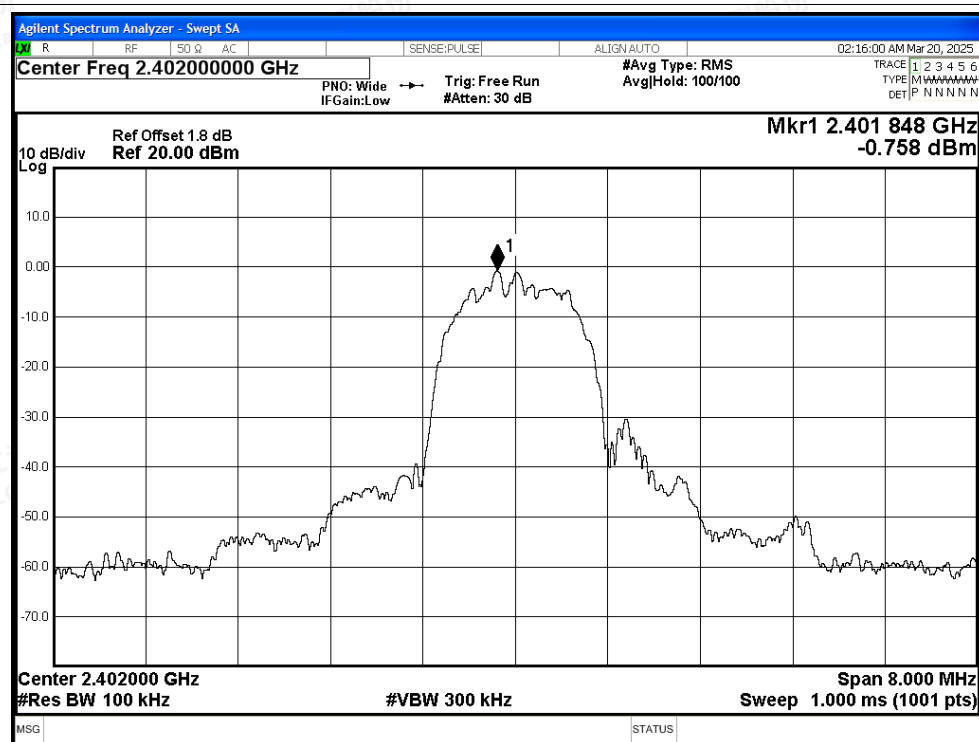
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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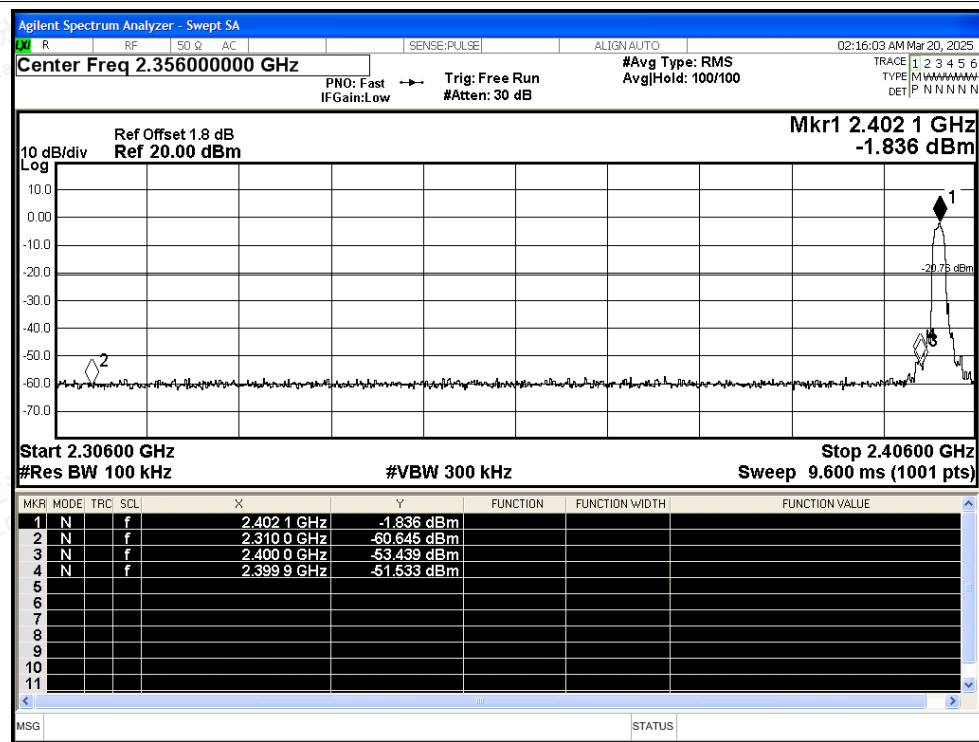
Scan code to check authenticity



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



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

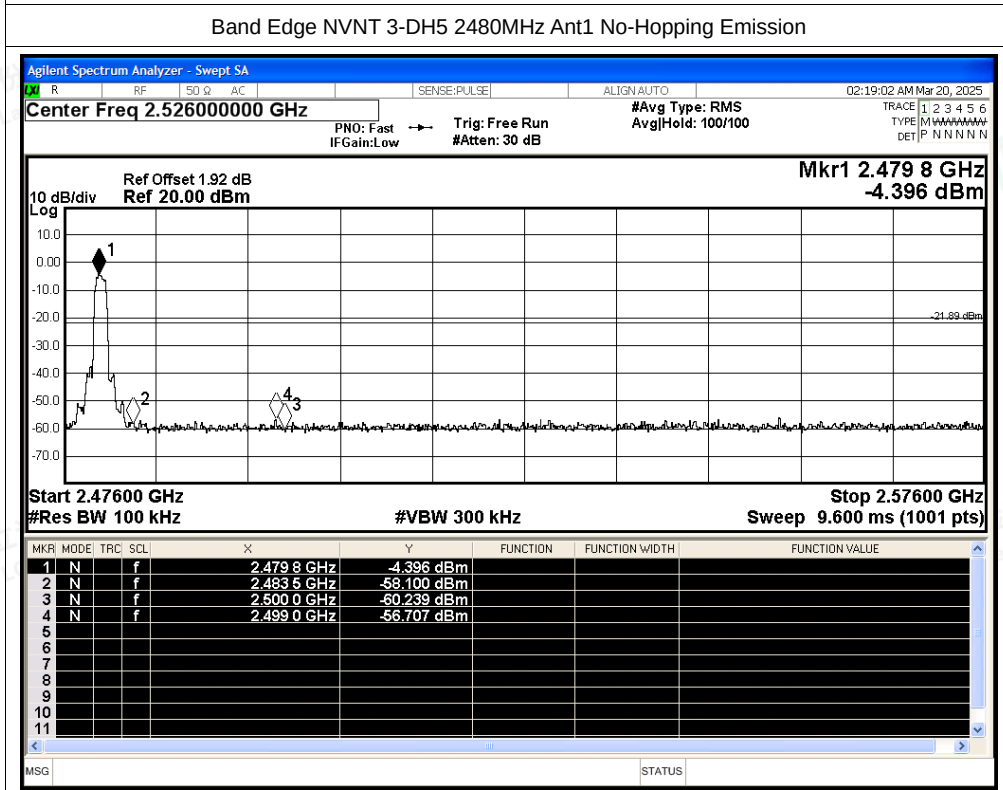
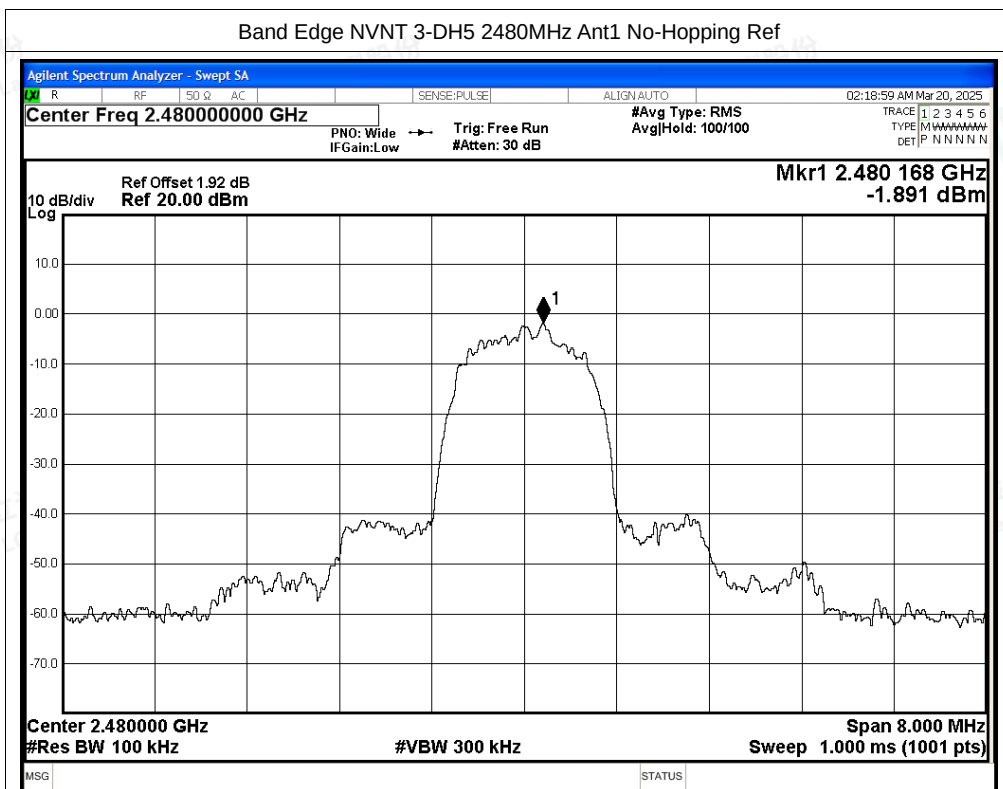


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(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.63	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.88	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.22	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.27	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.2	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.31	-20	Pass



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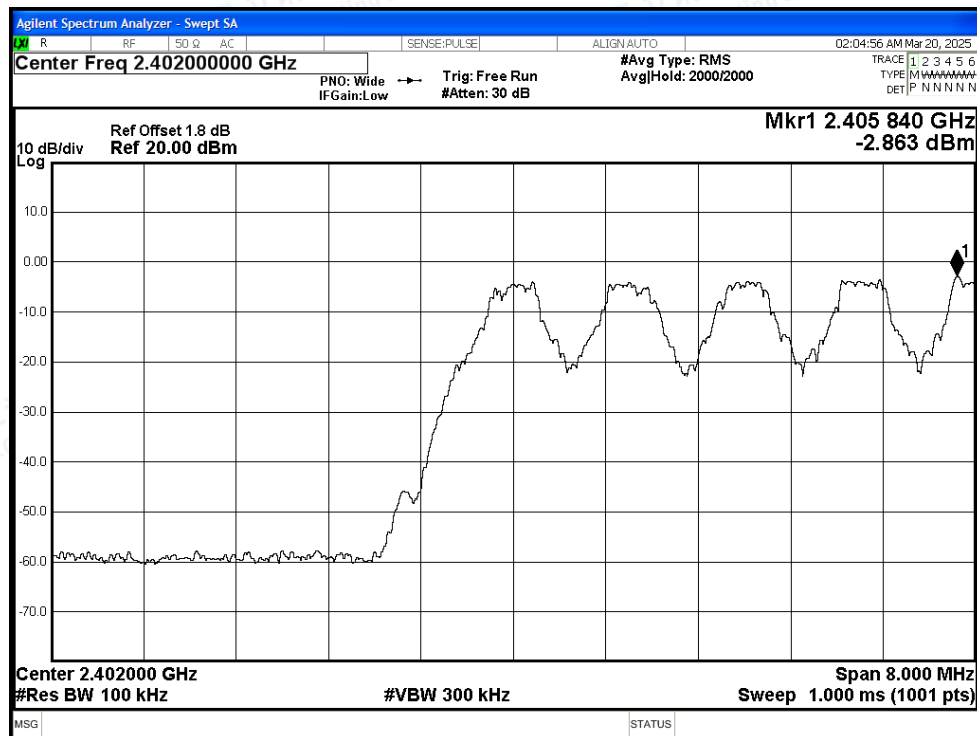
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

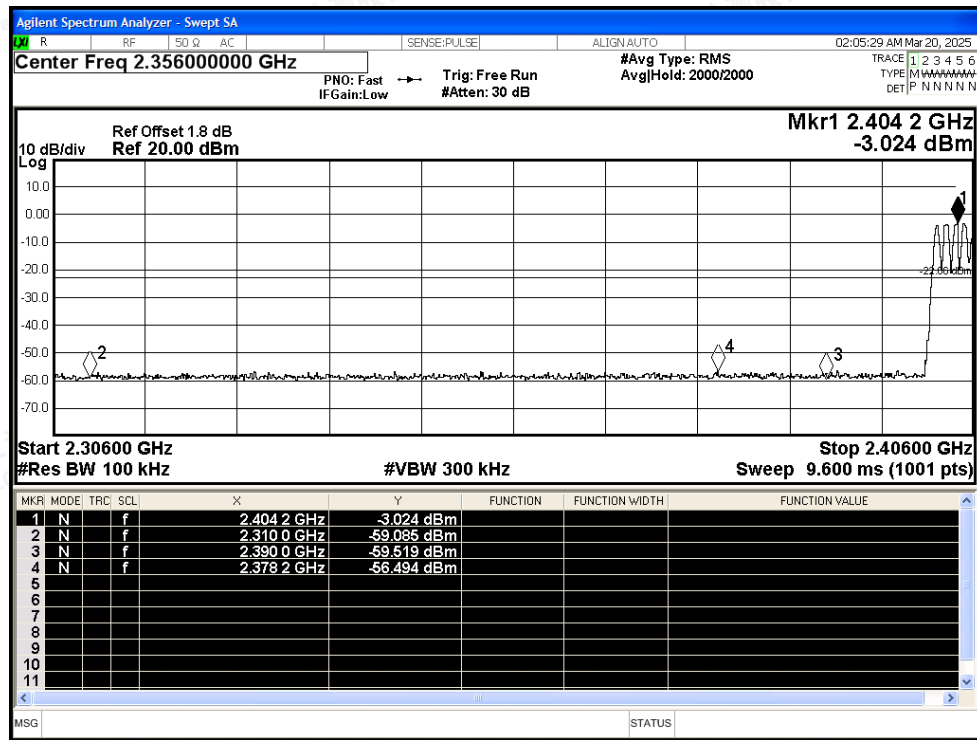


Test Graphs

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



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

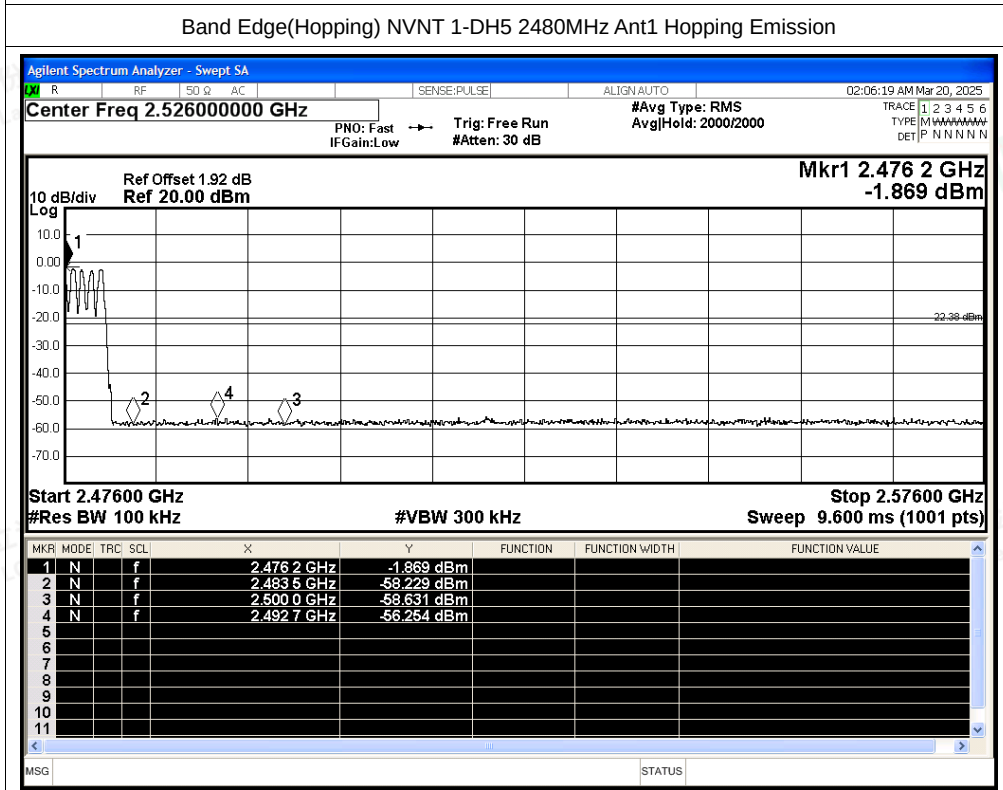
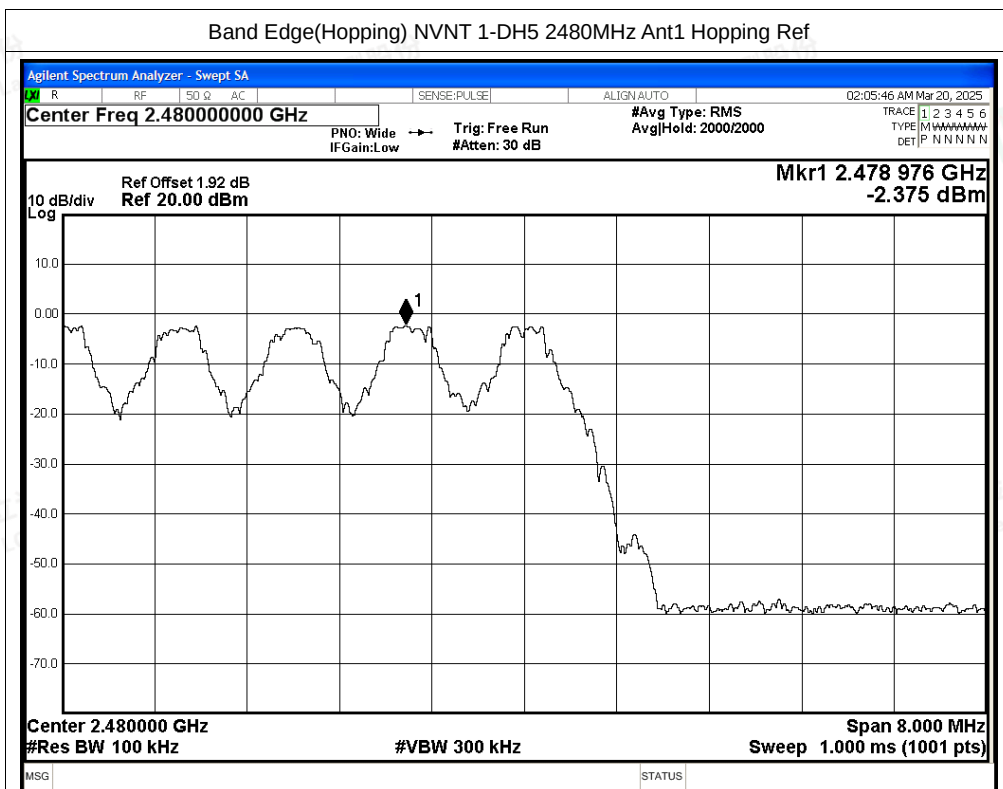


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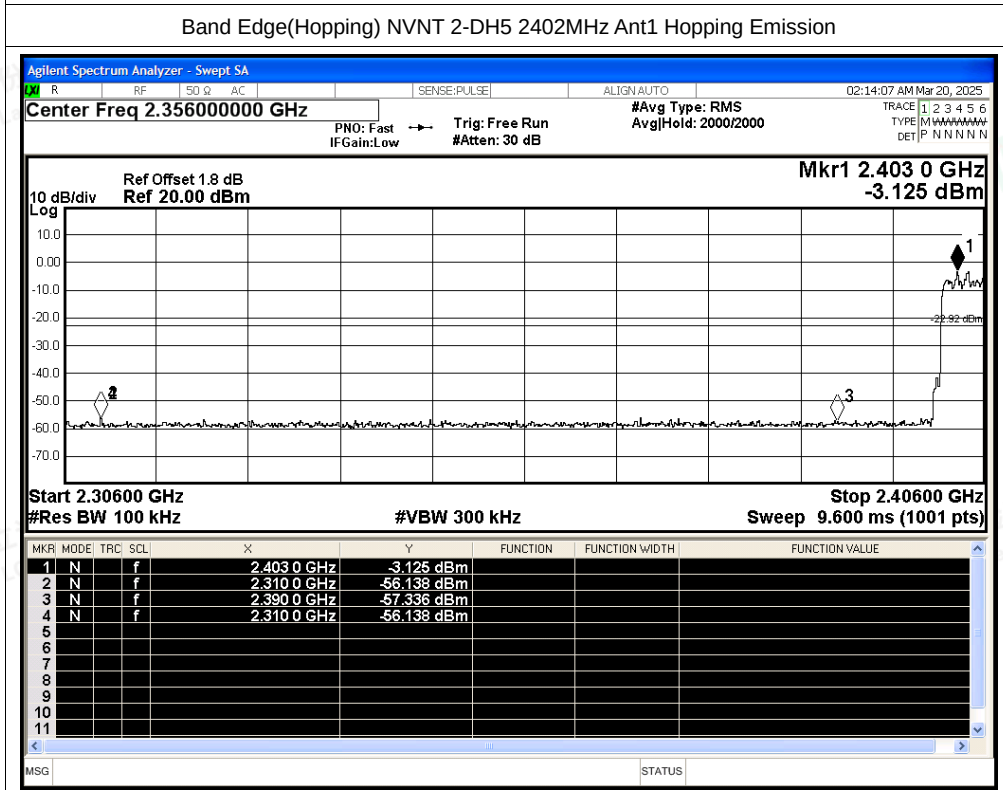
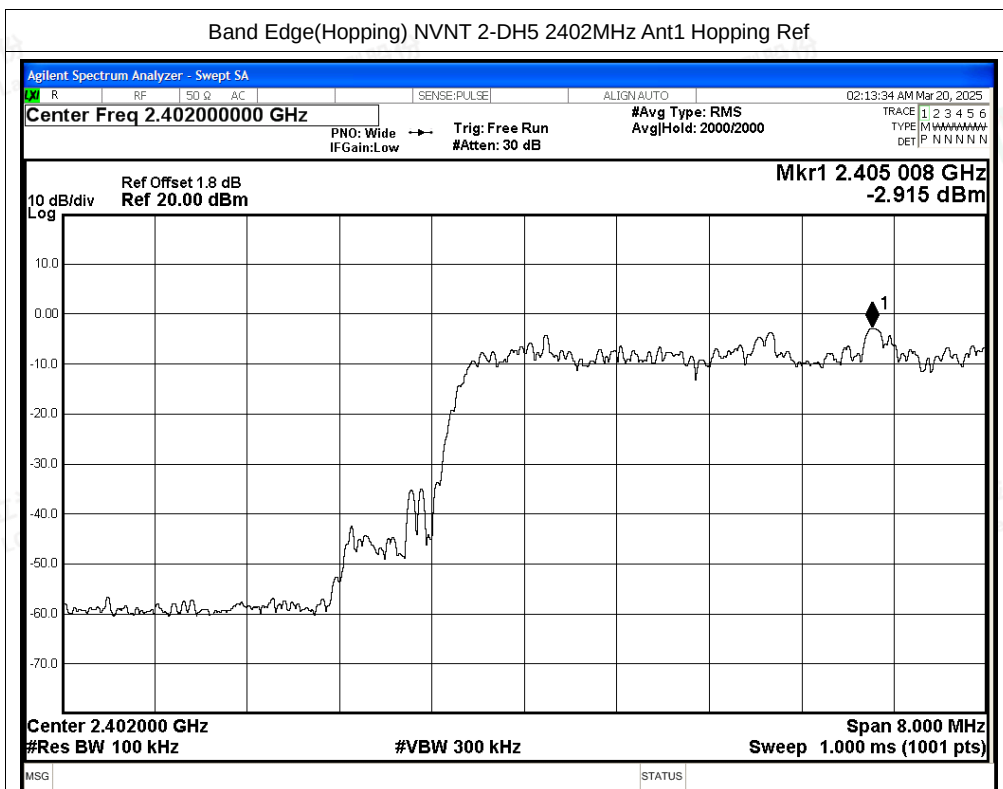


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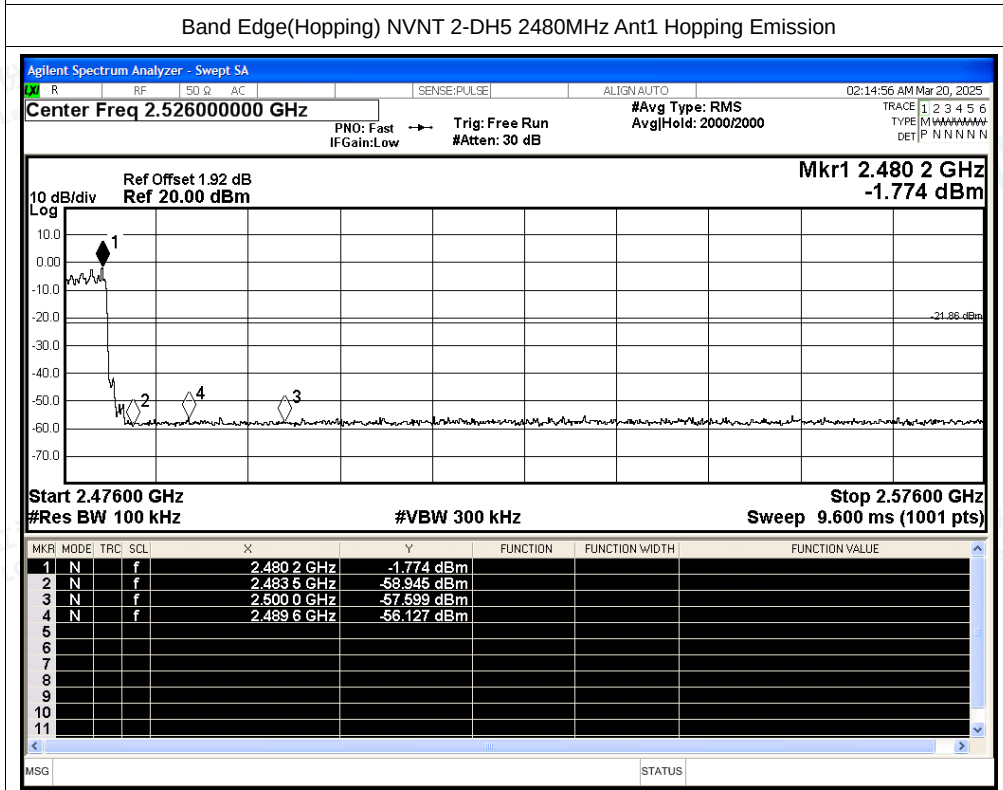
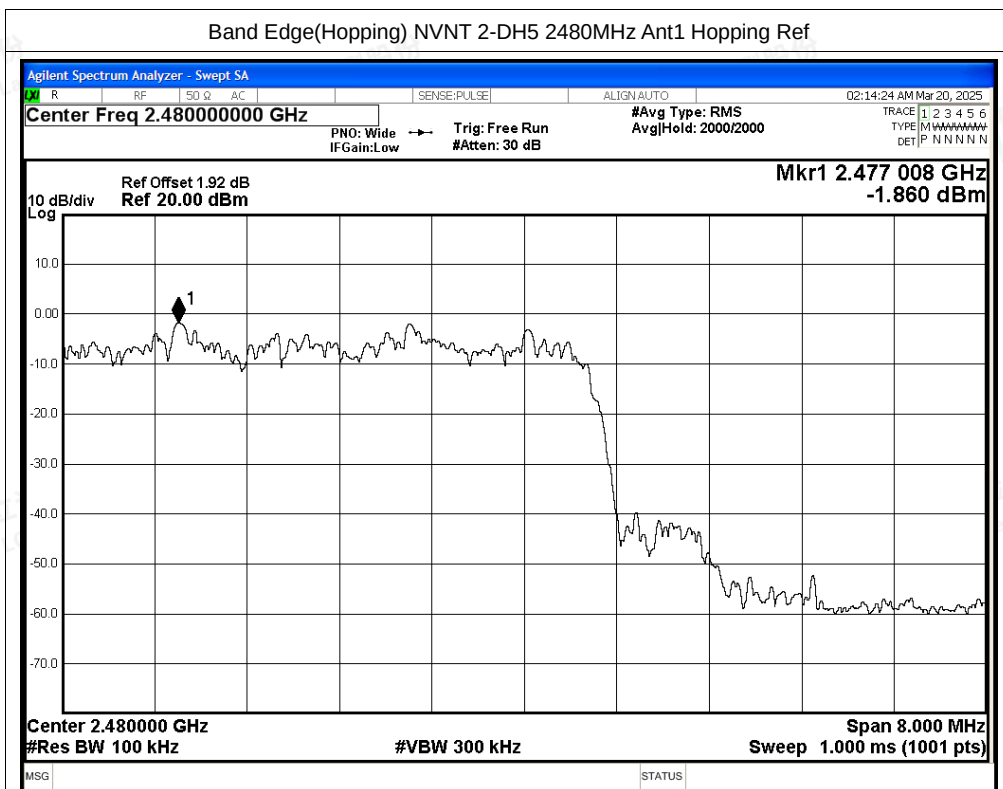


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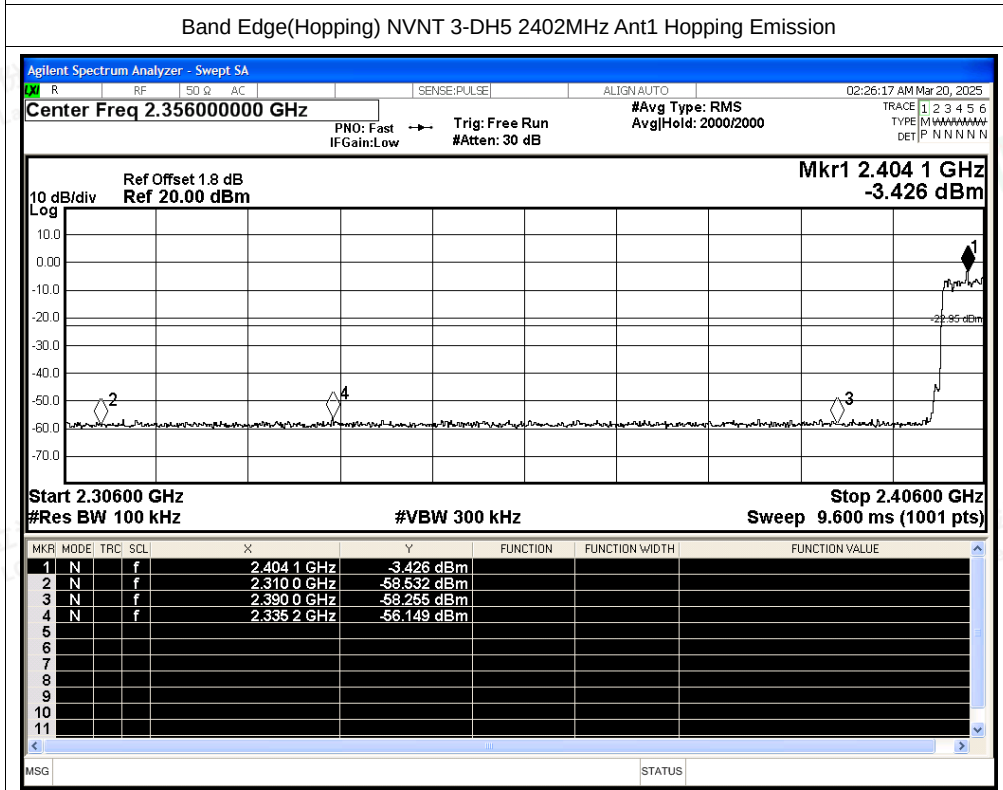
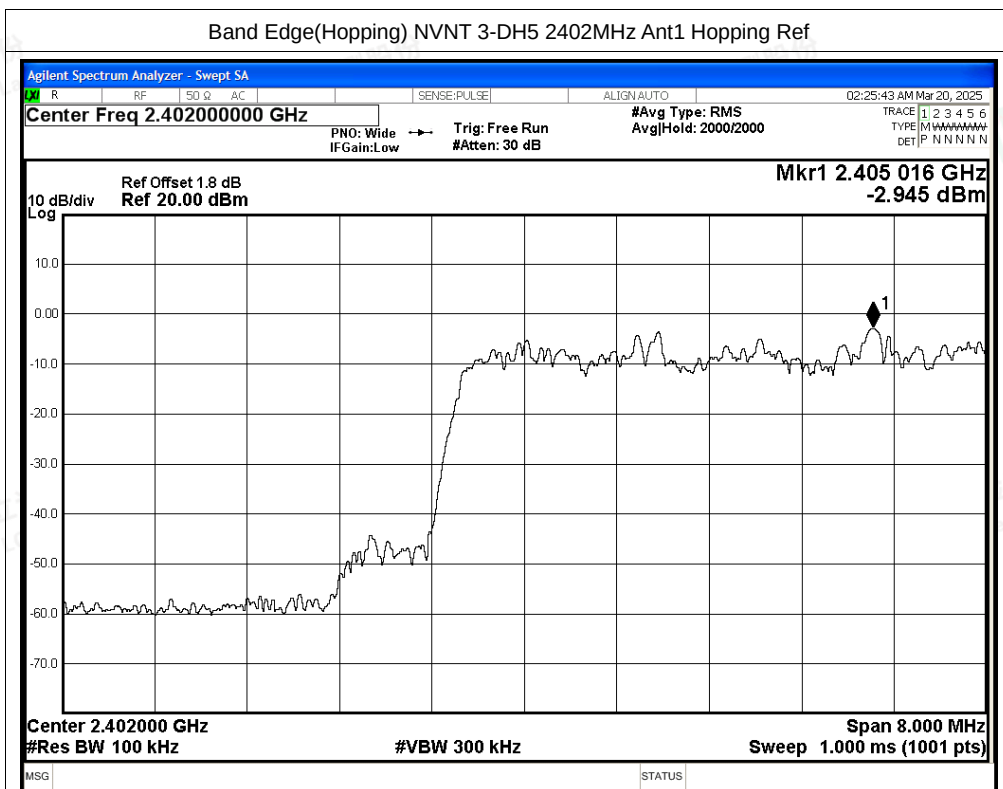


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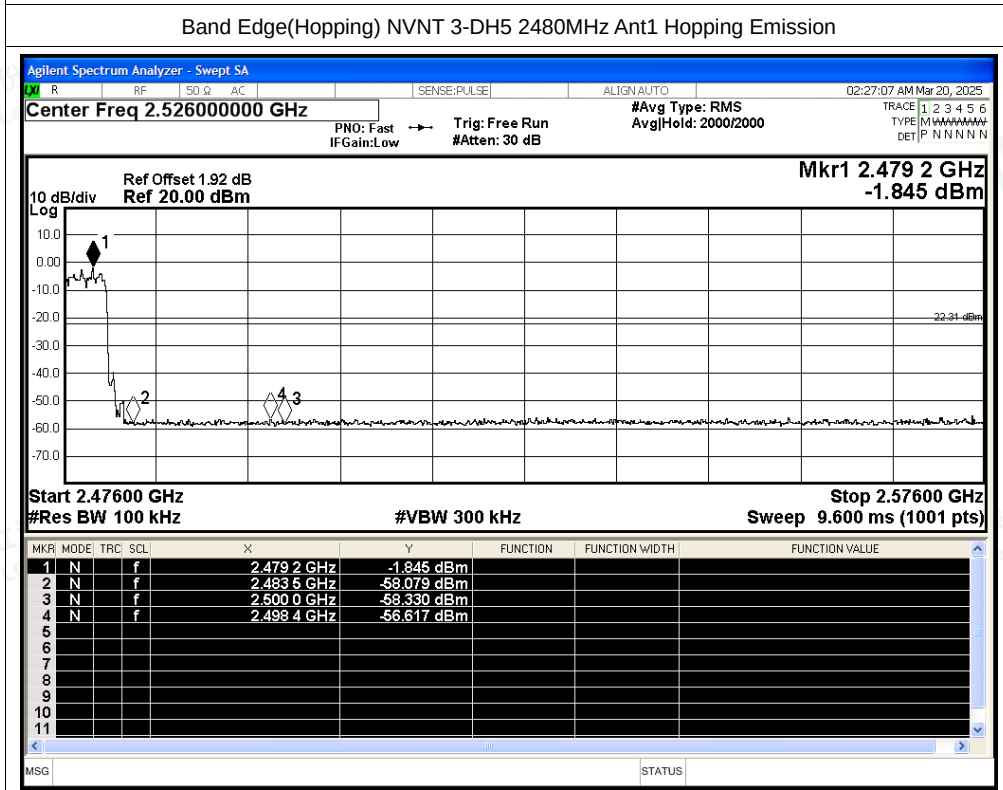
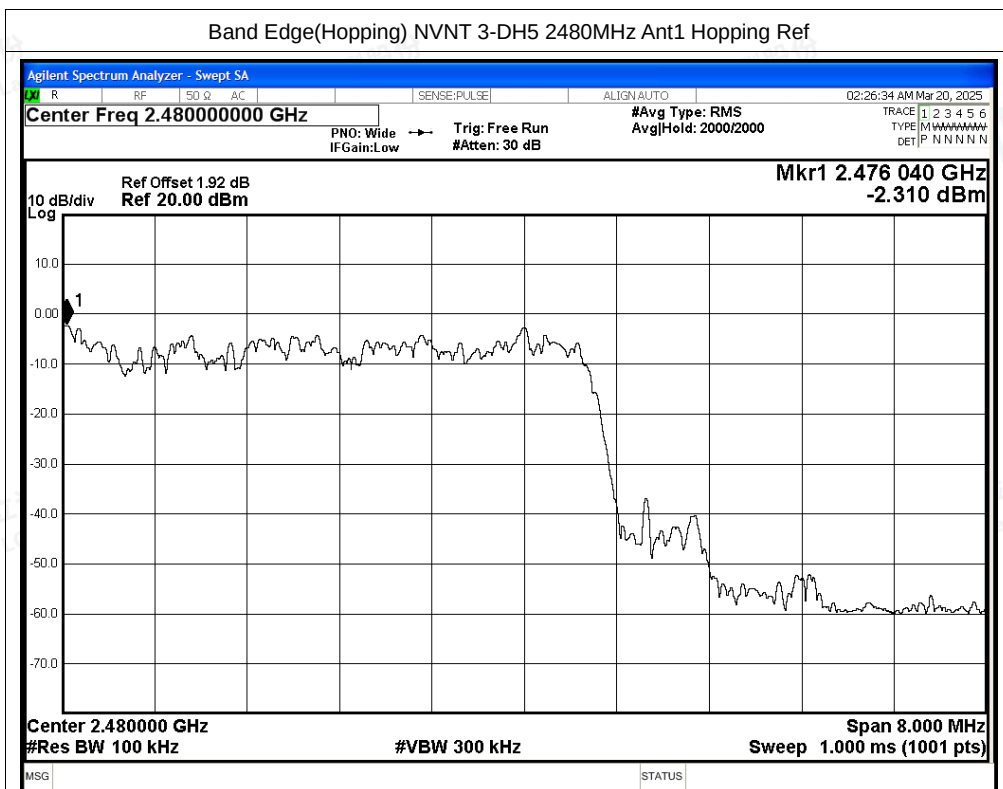


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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-53.66	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.99	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.74	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.34	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.71	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.36	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.03	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.37	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.72	-20	Pass



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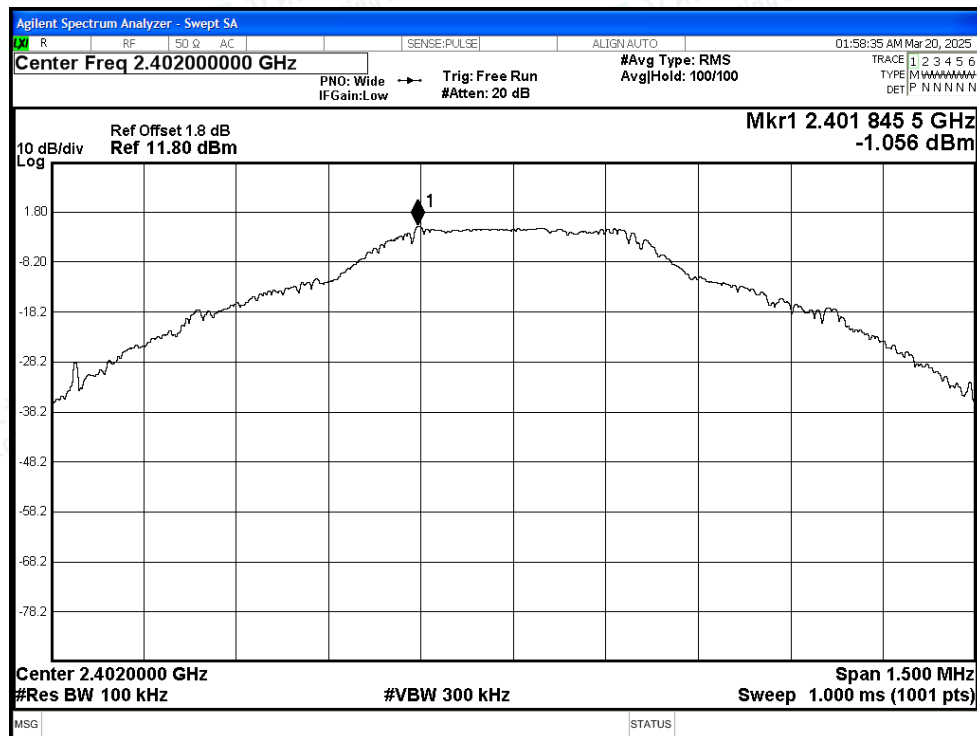
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

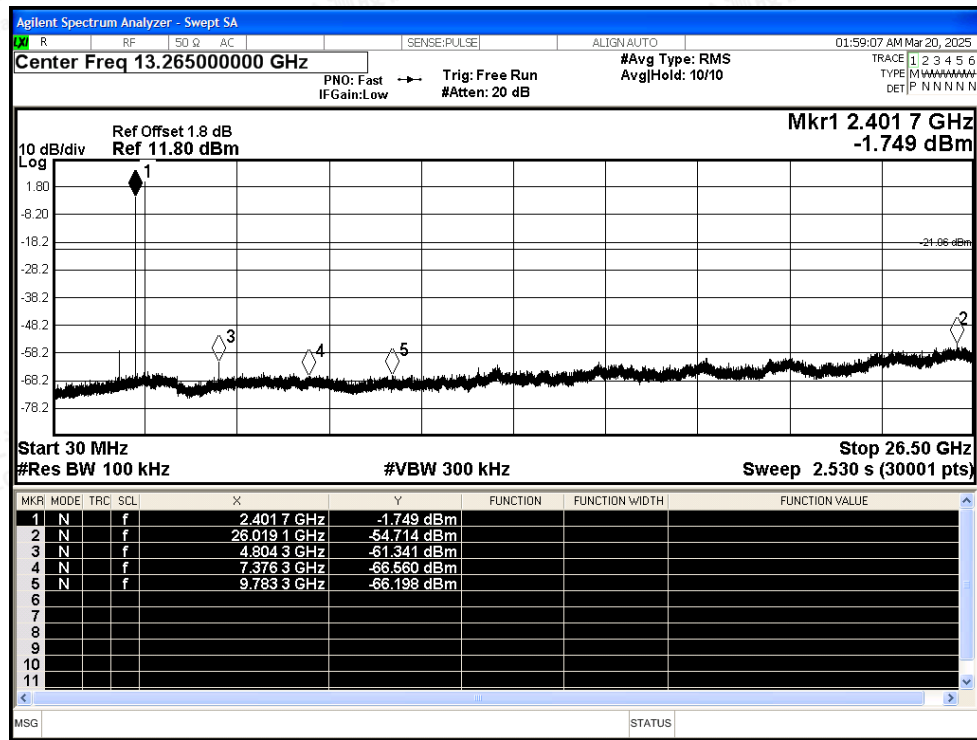


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

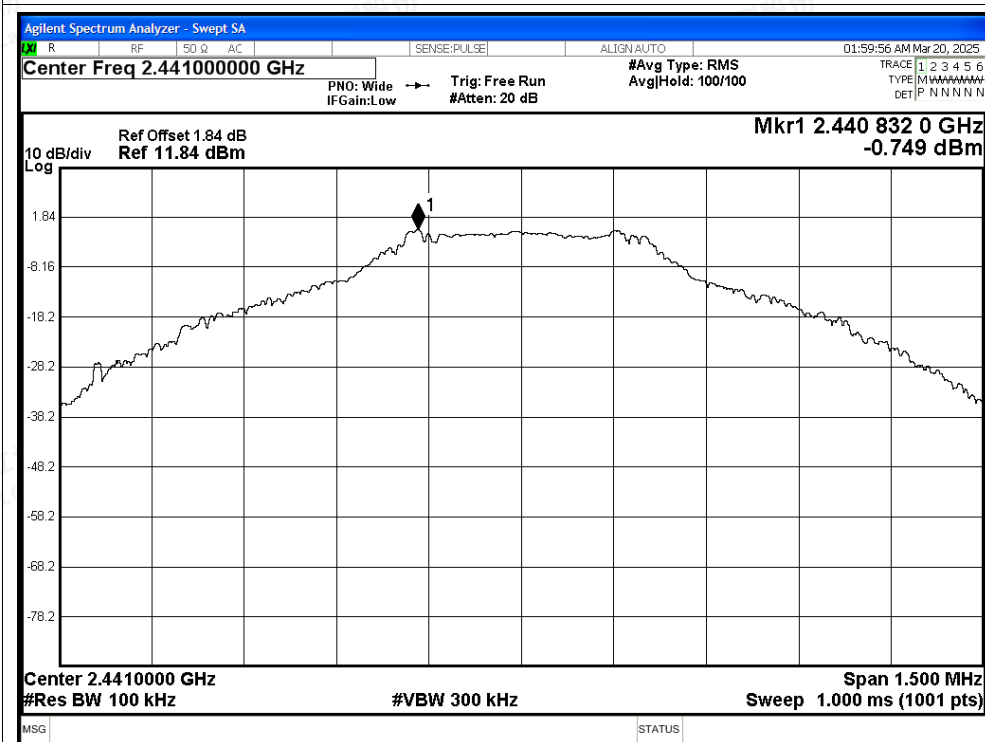
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

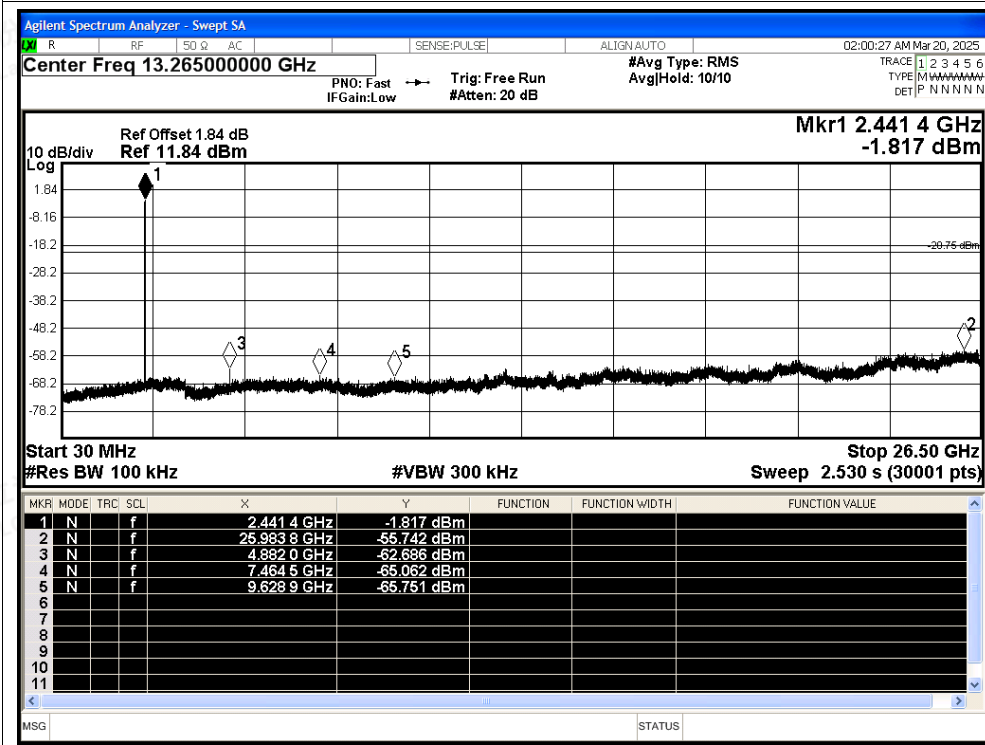
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

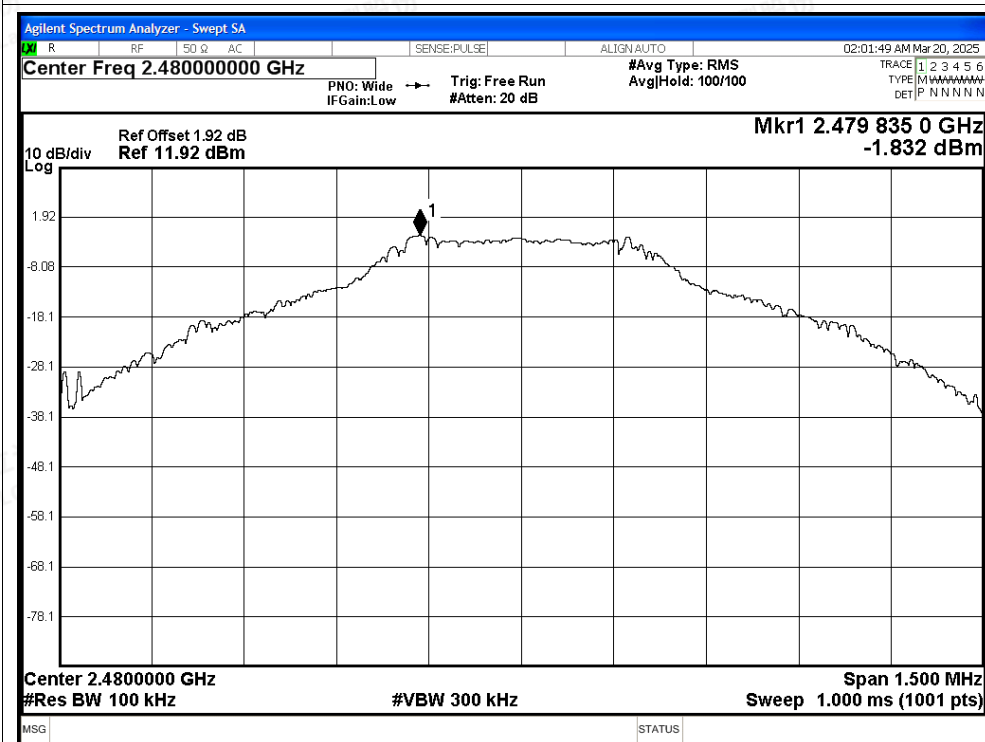
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

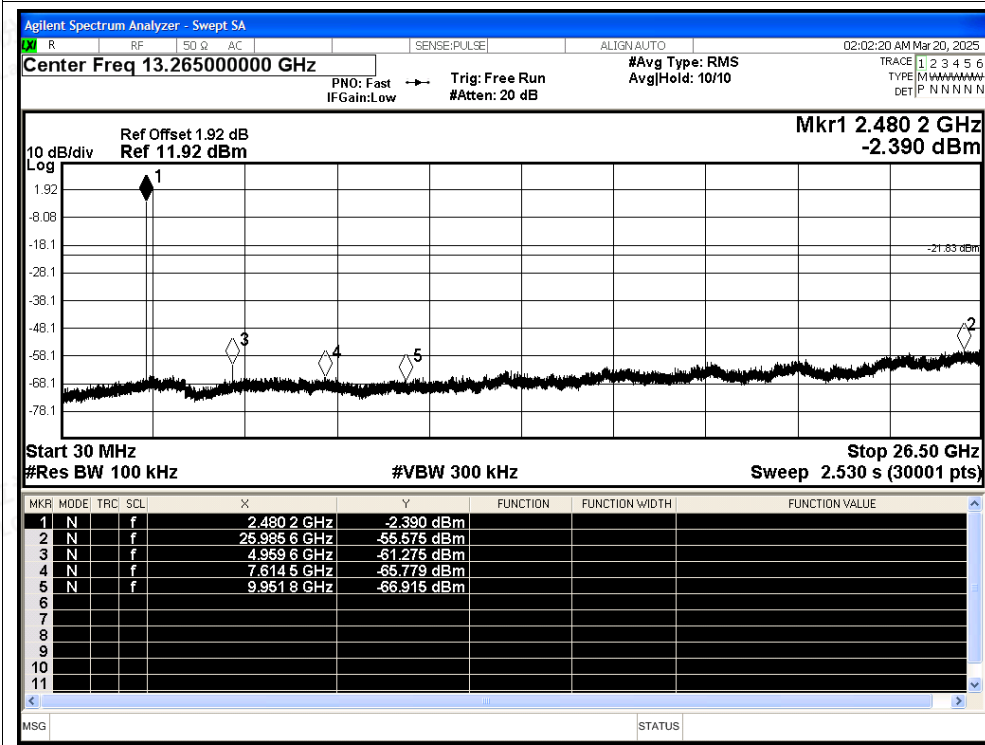
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

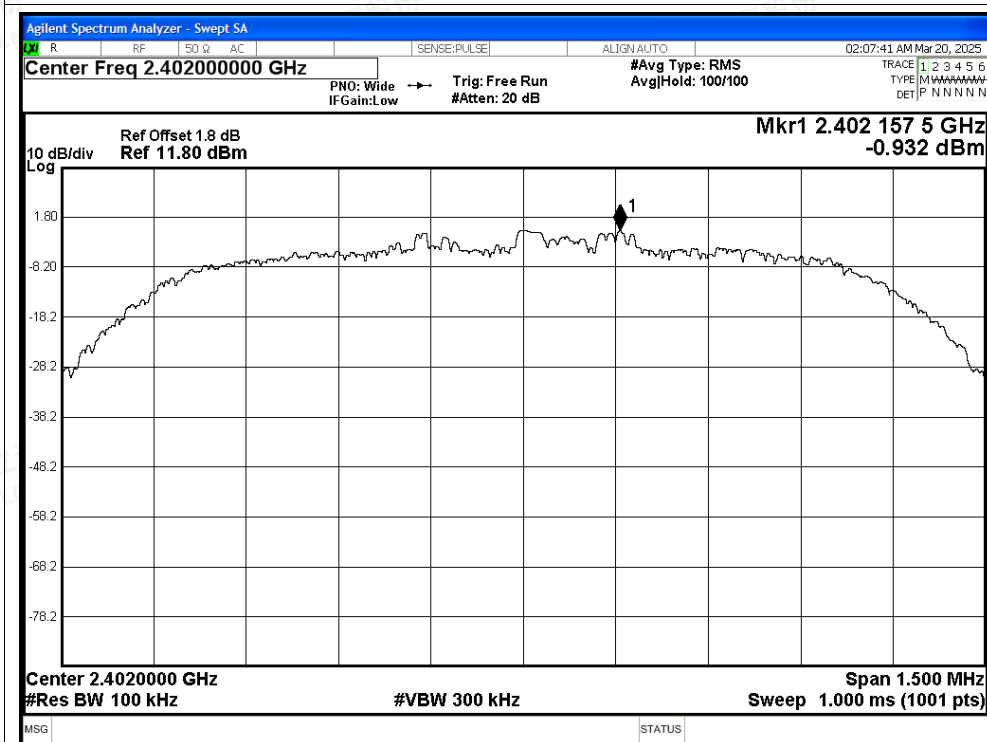
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

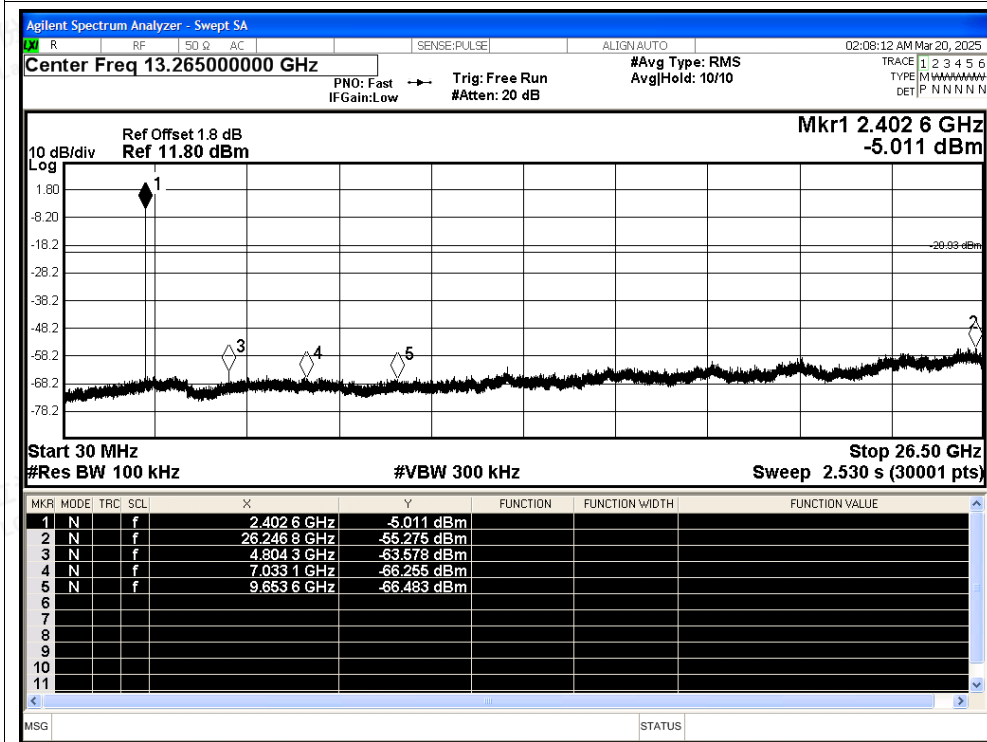
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

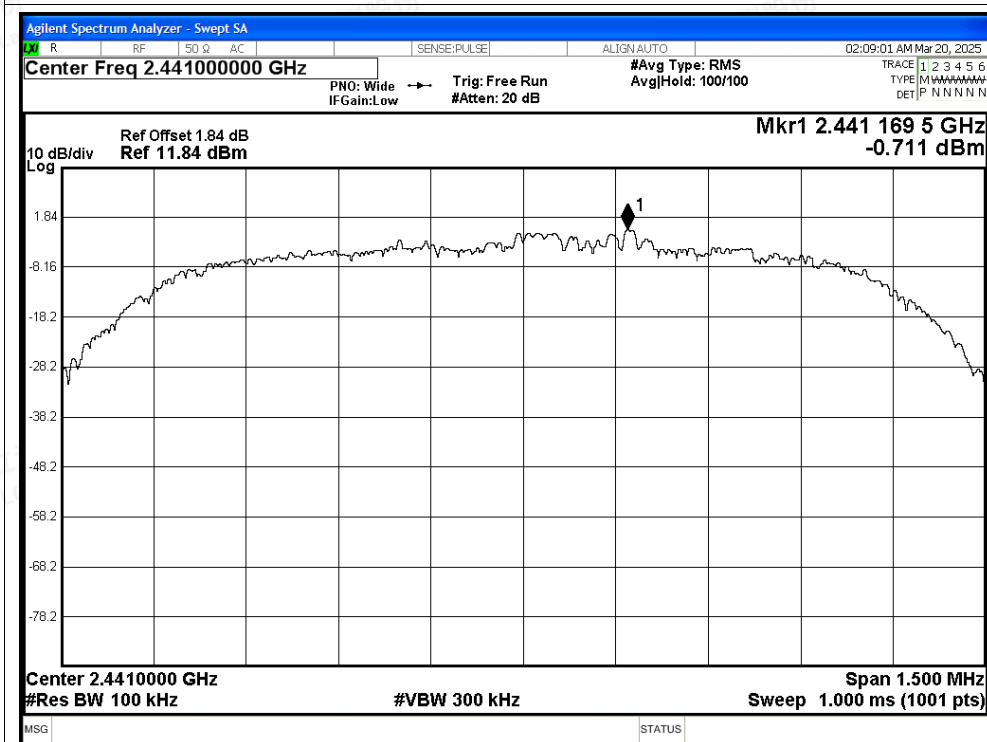
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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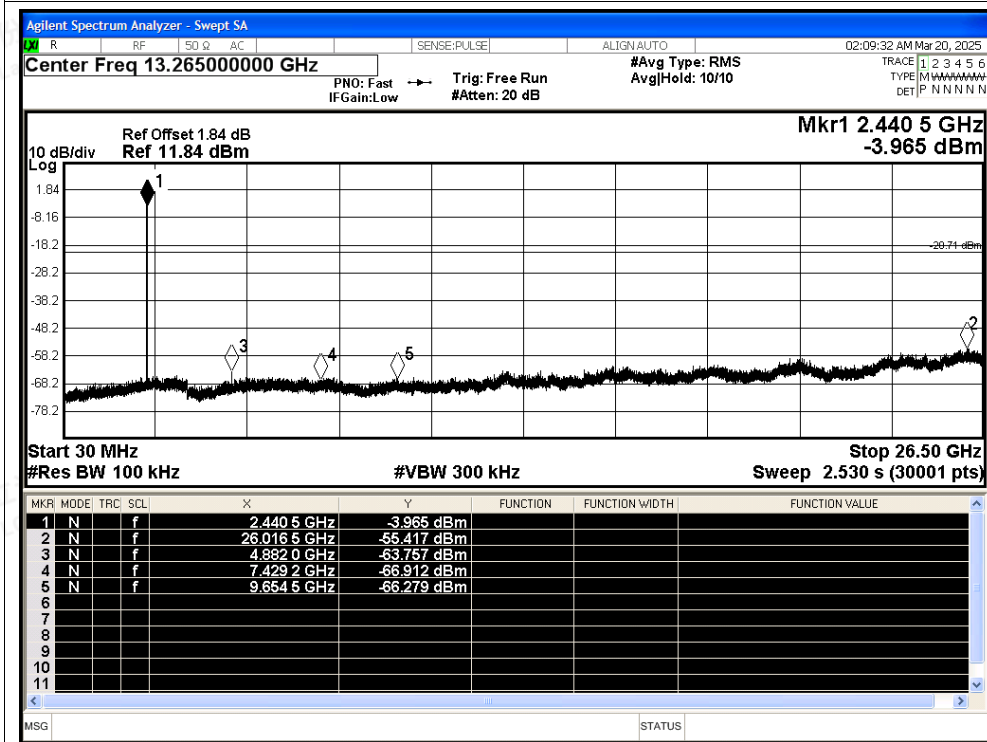
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

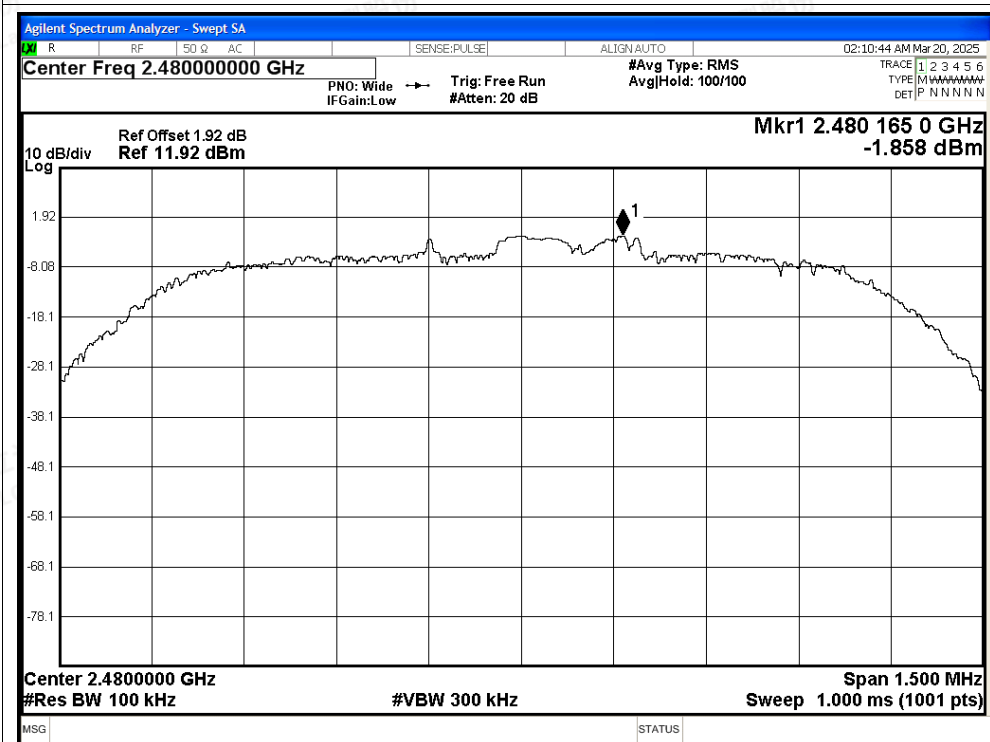
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

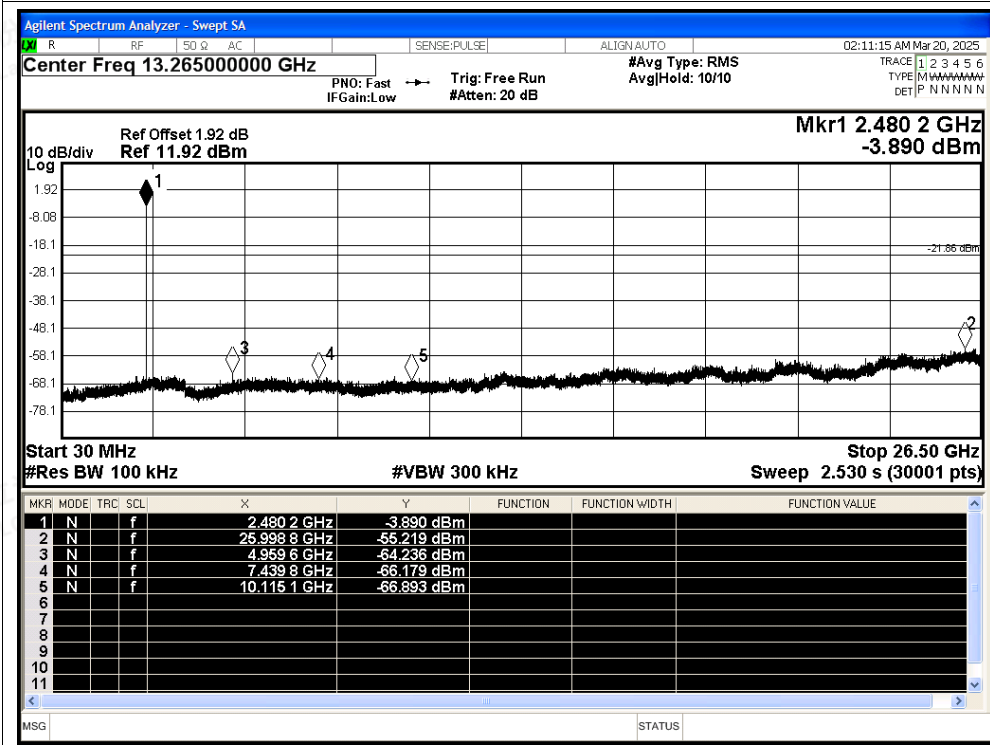
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

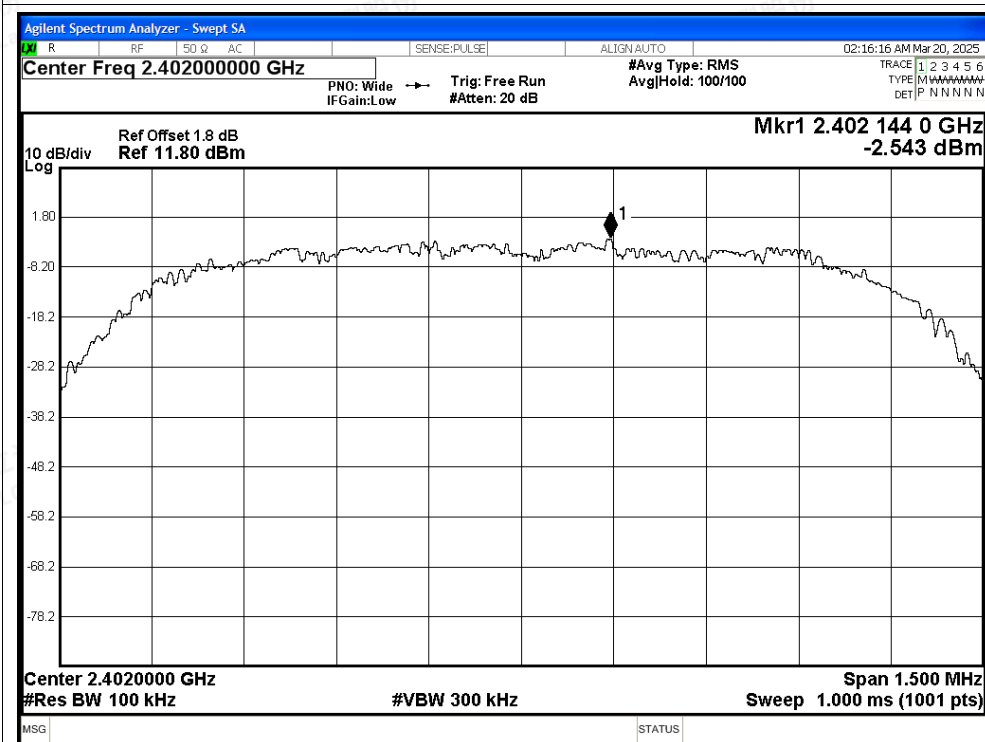
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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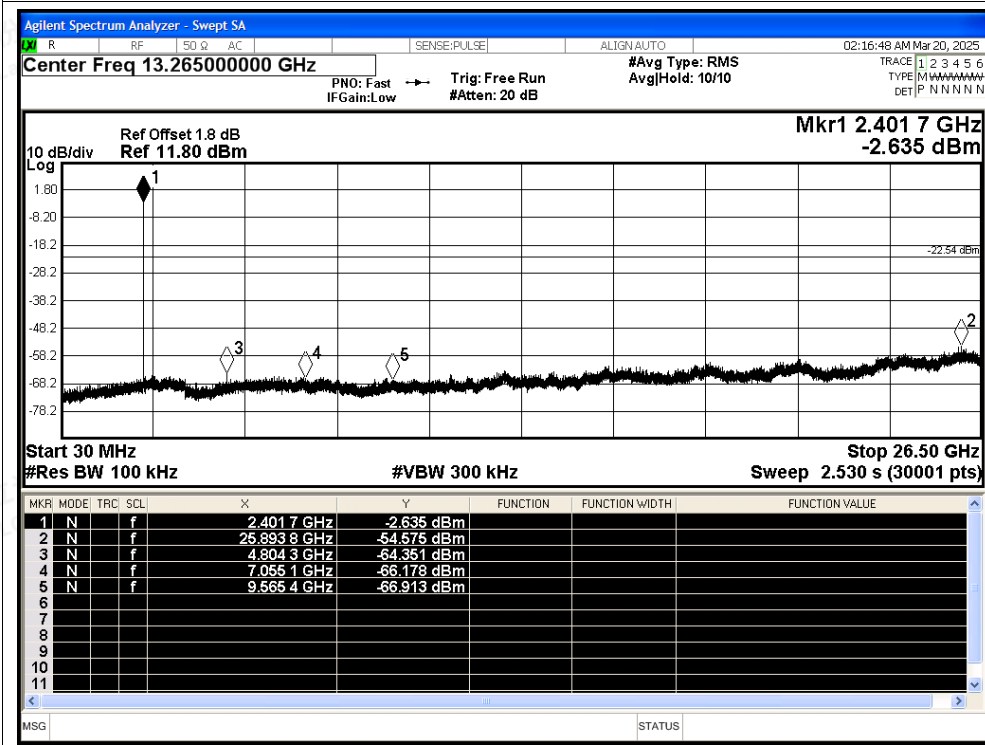
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

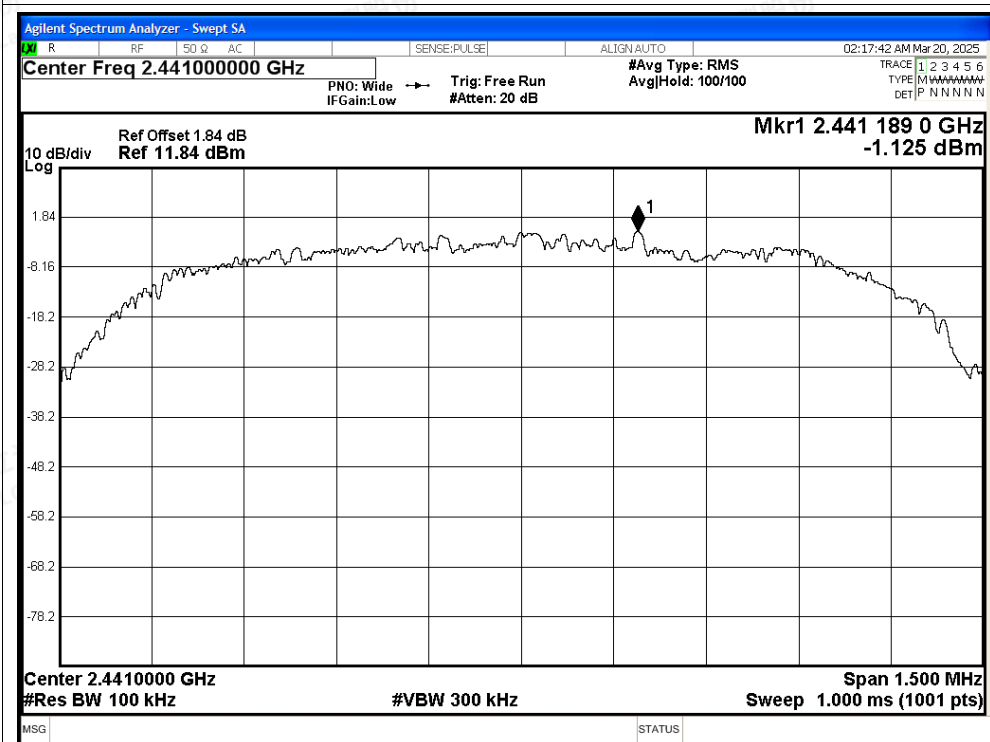
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

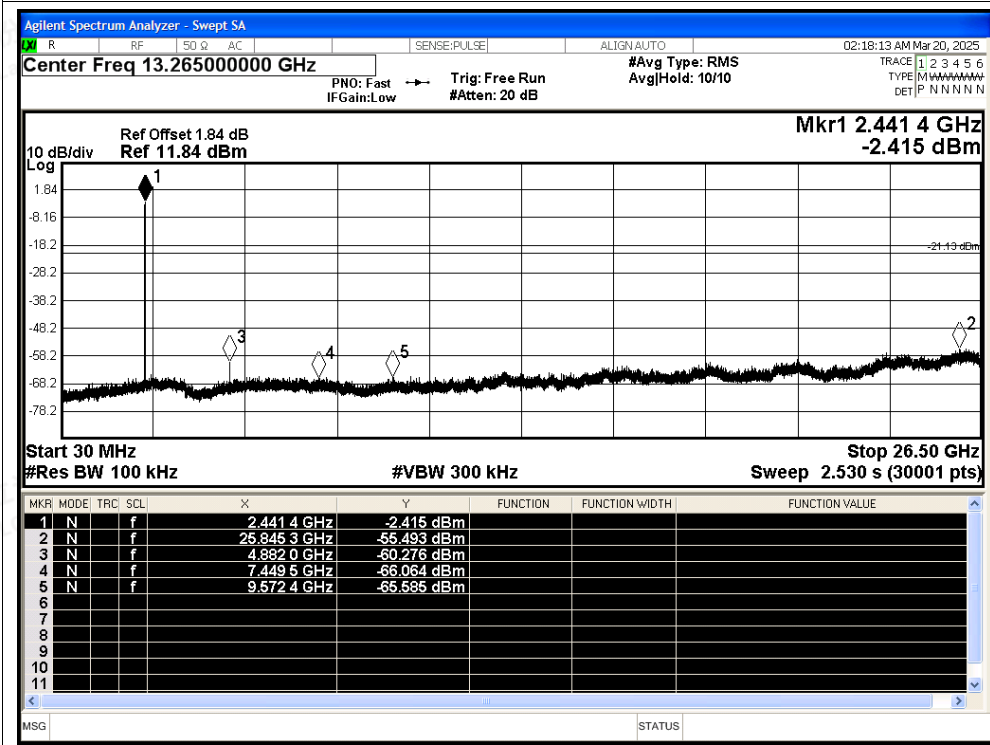
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

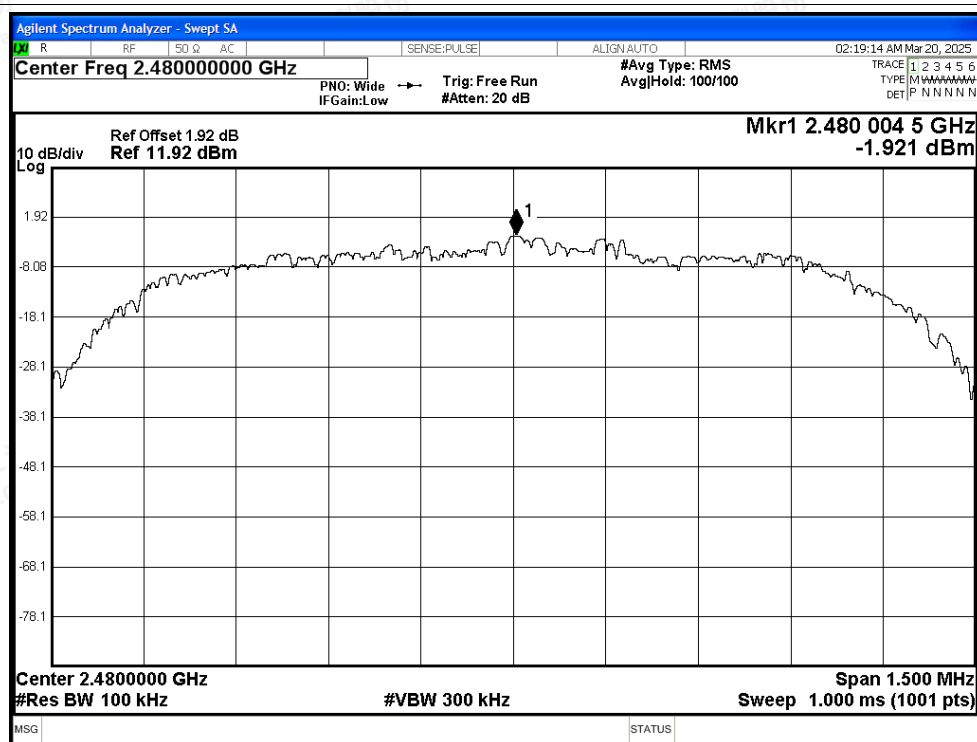
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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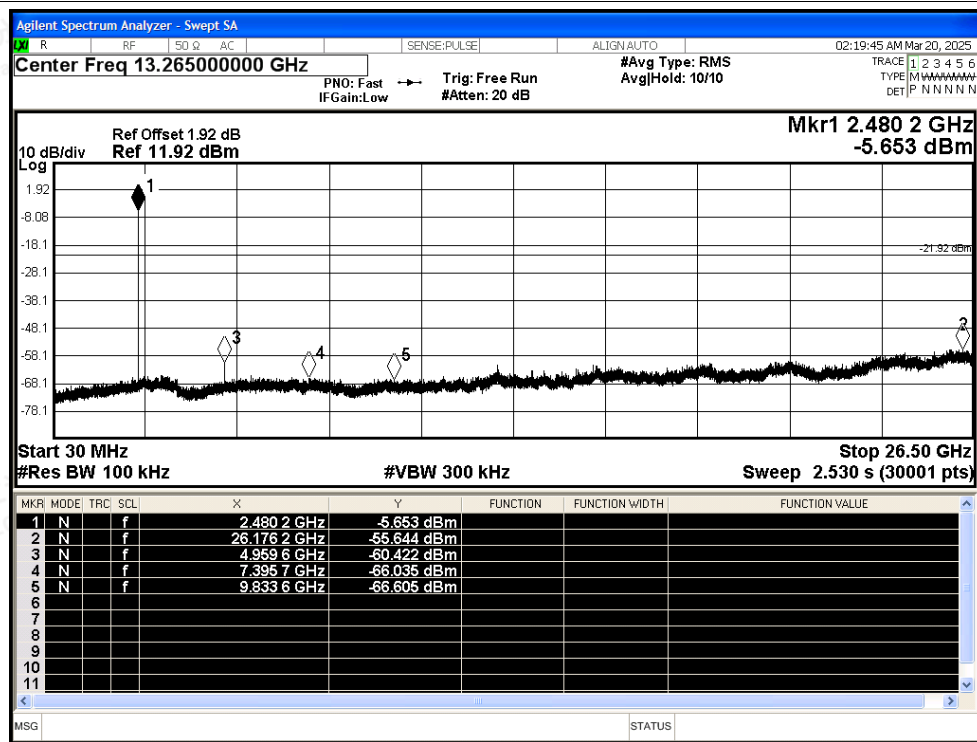
Scan code to check authenticity



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	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35

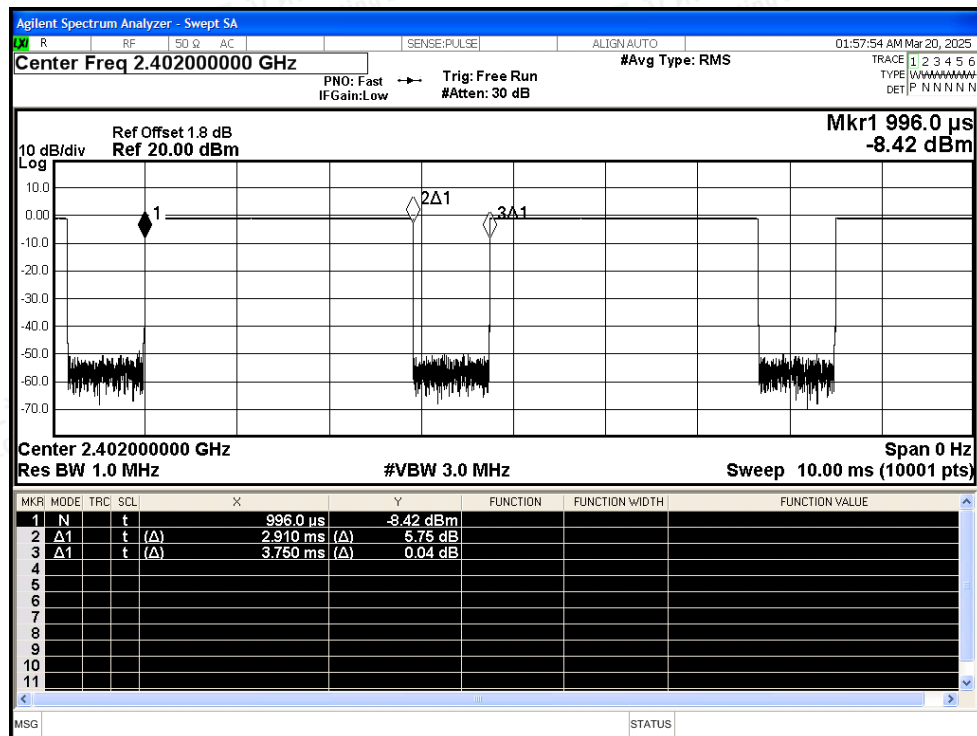


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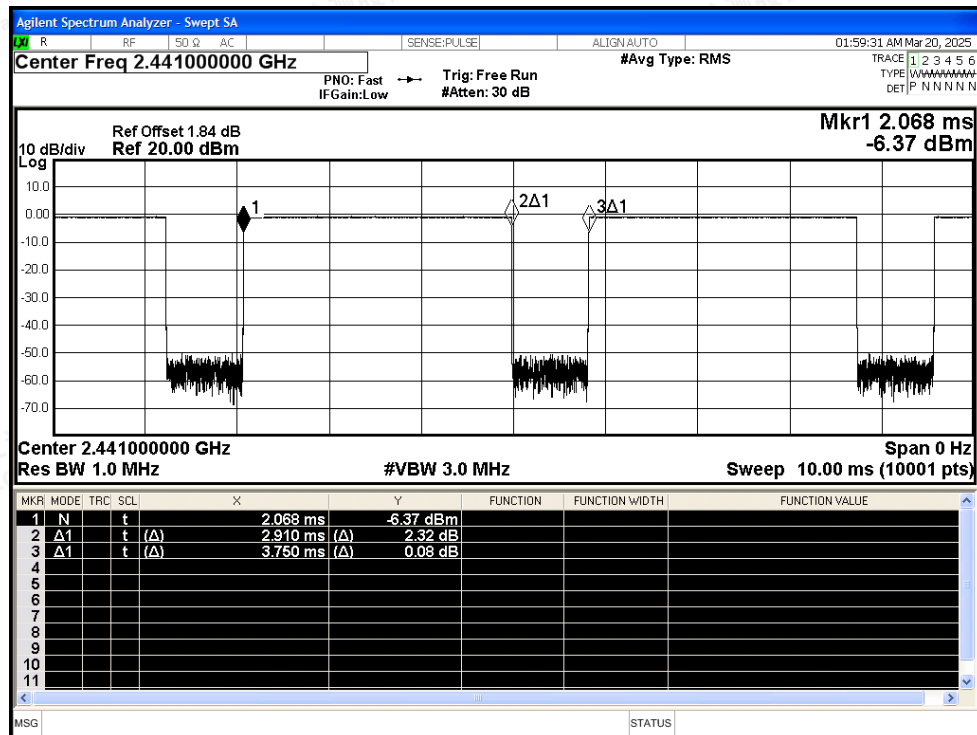


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

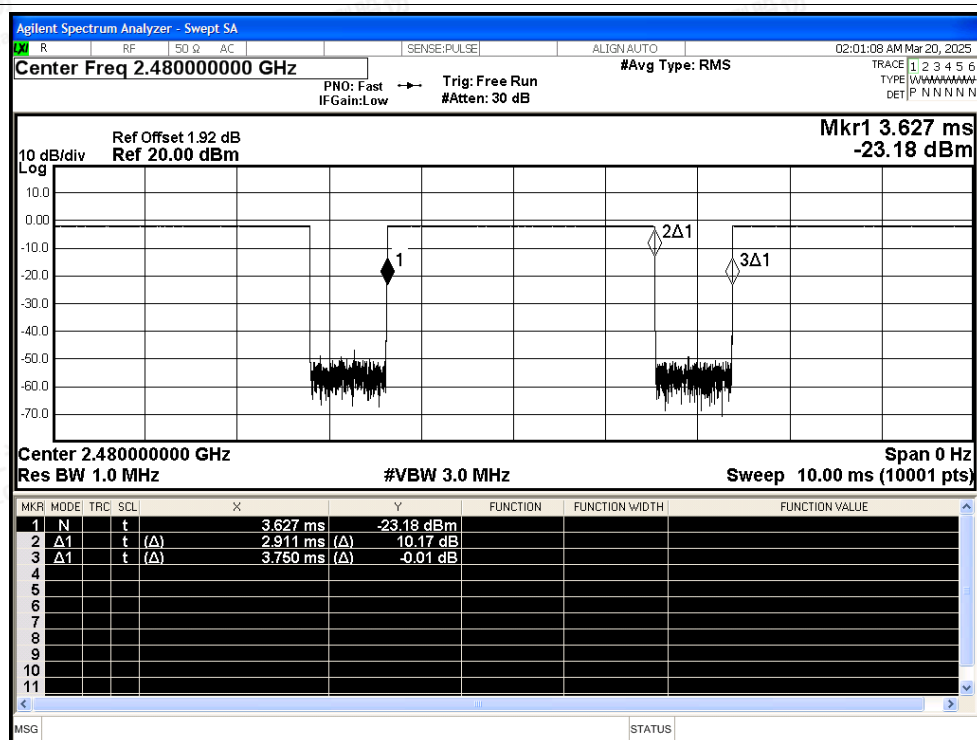
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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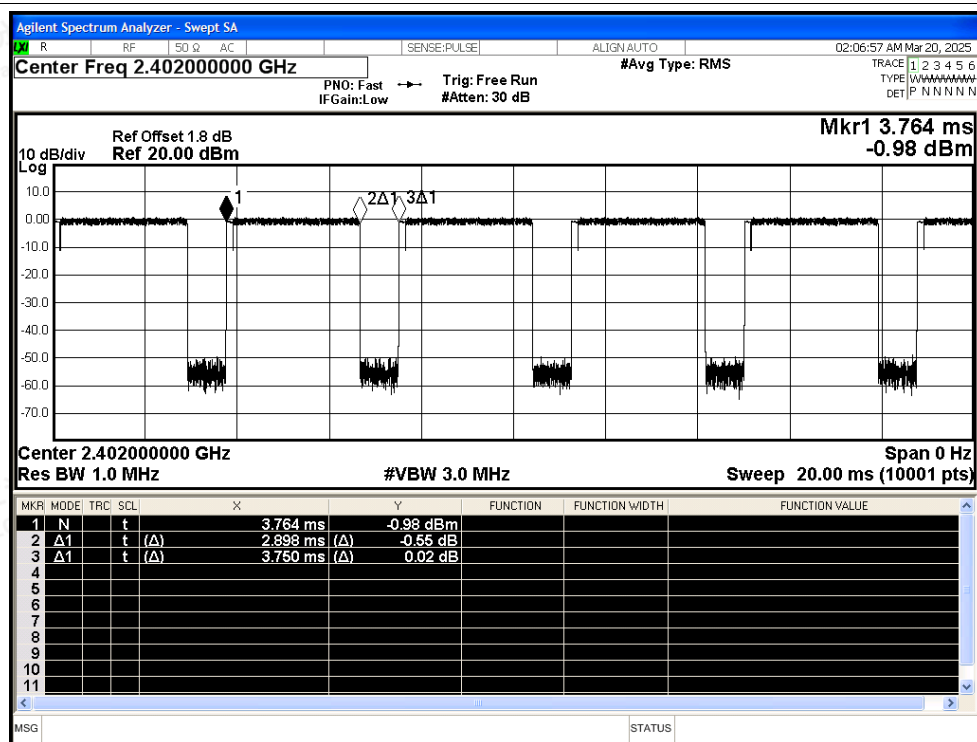
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Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

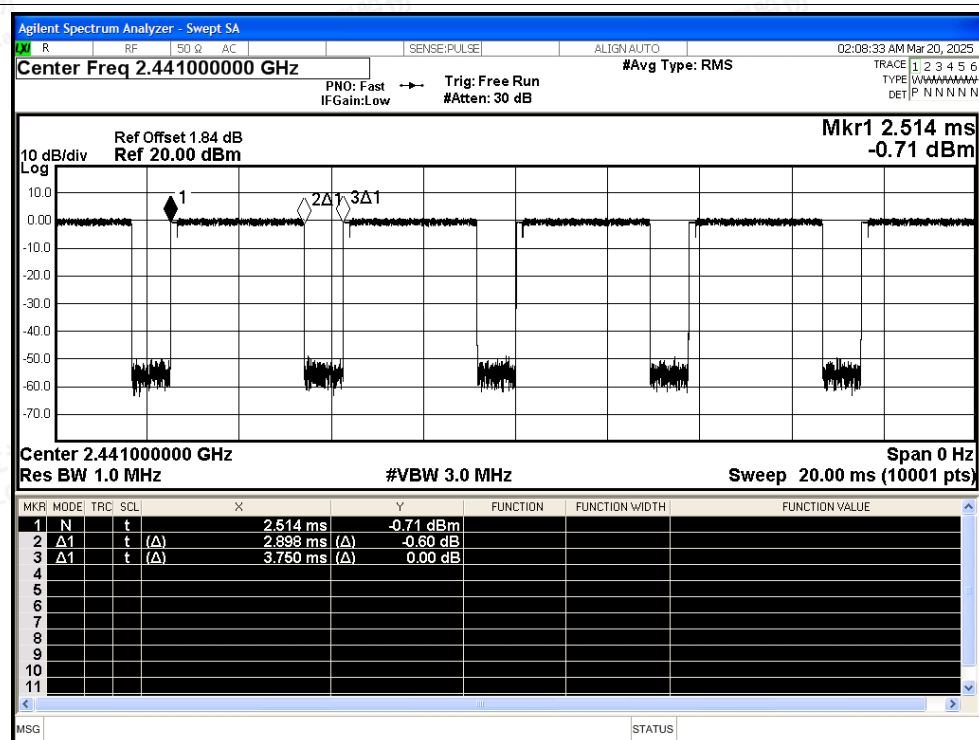
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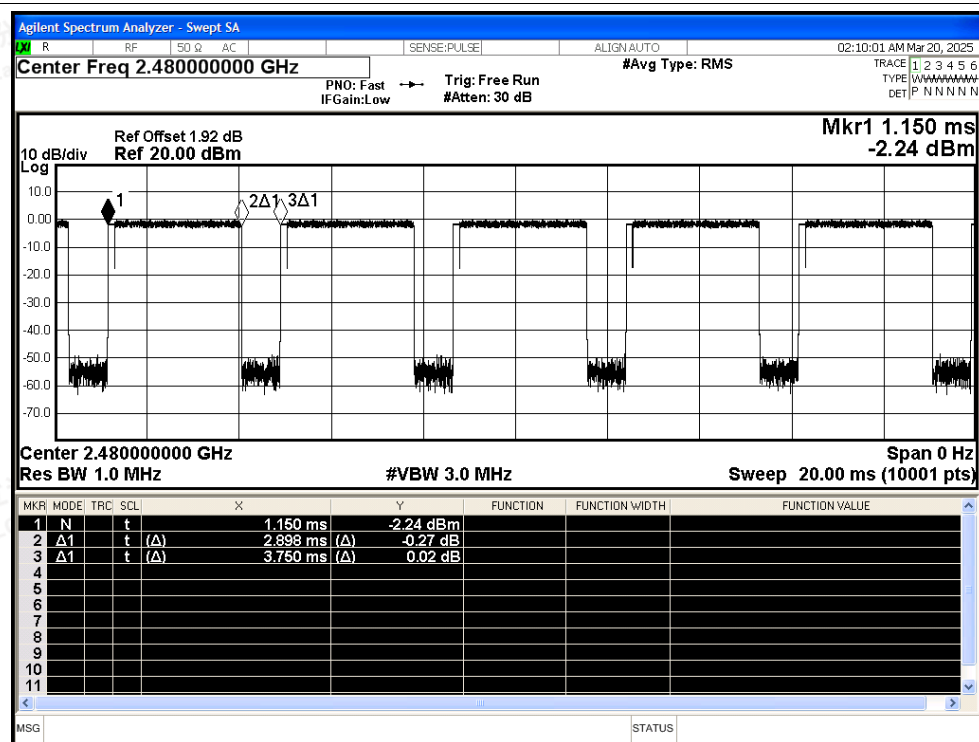
Scan code to check authenticity



Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

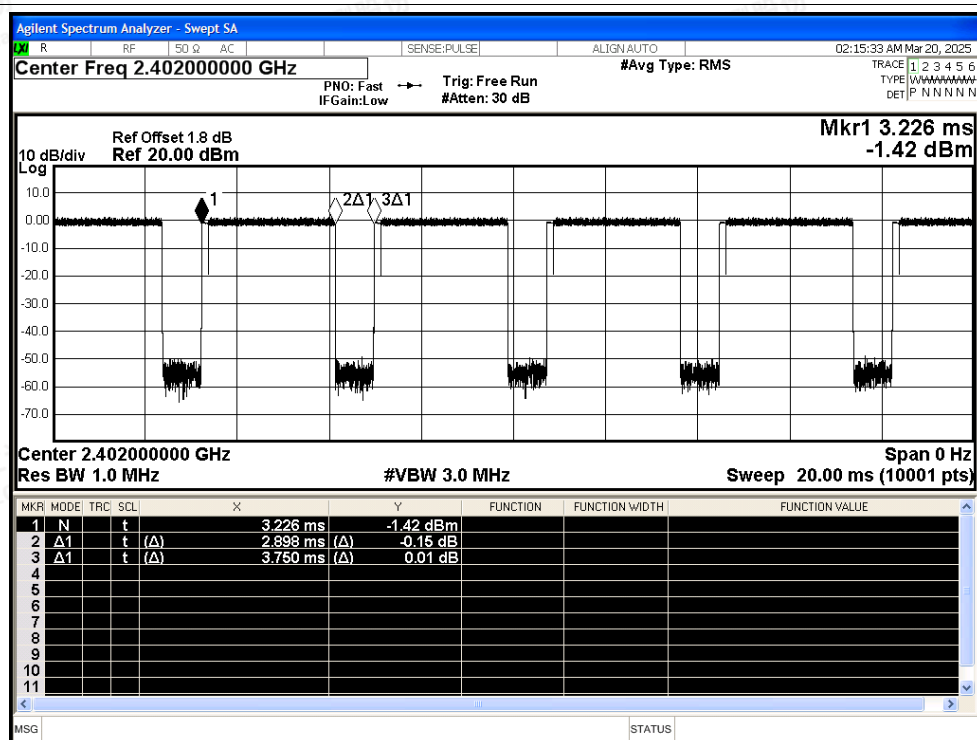
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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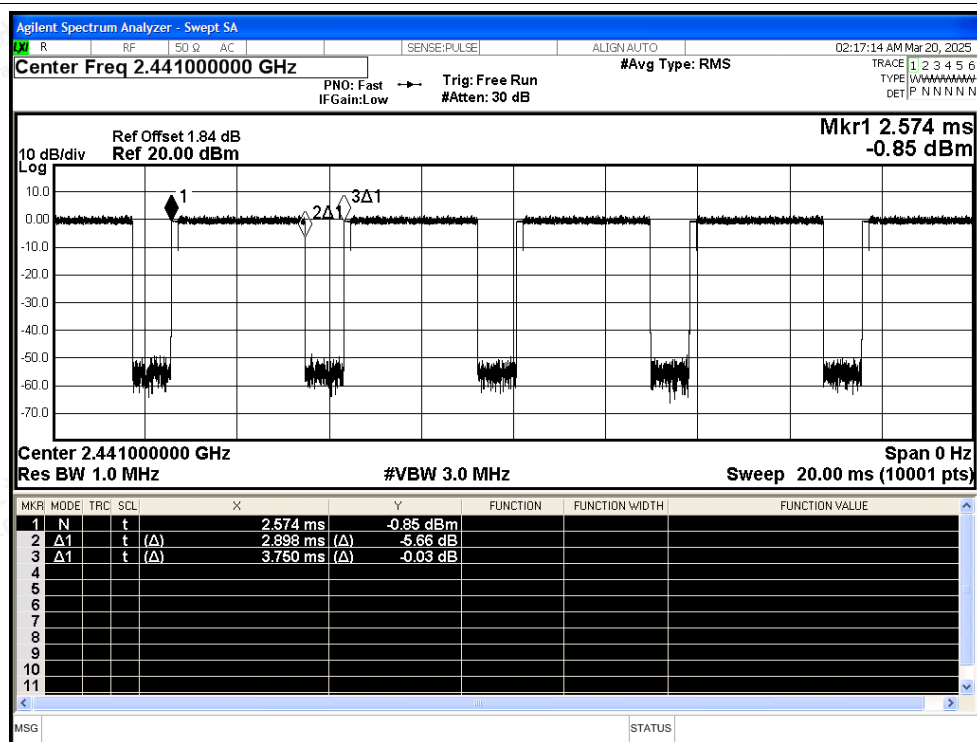
Scan code to check authenticity



Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

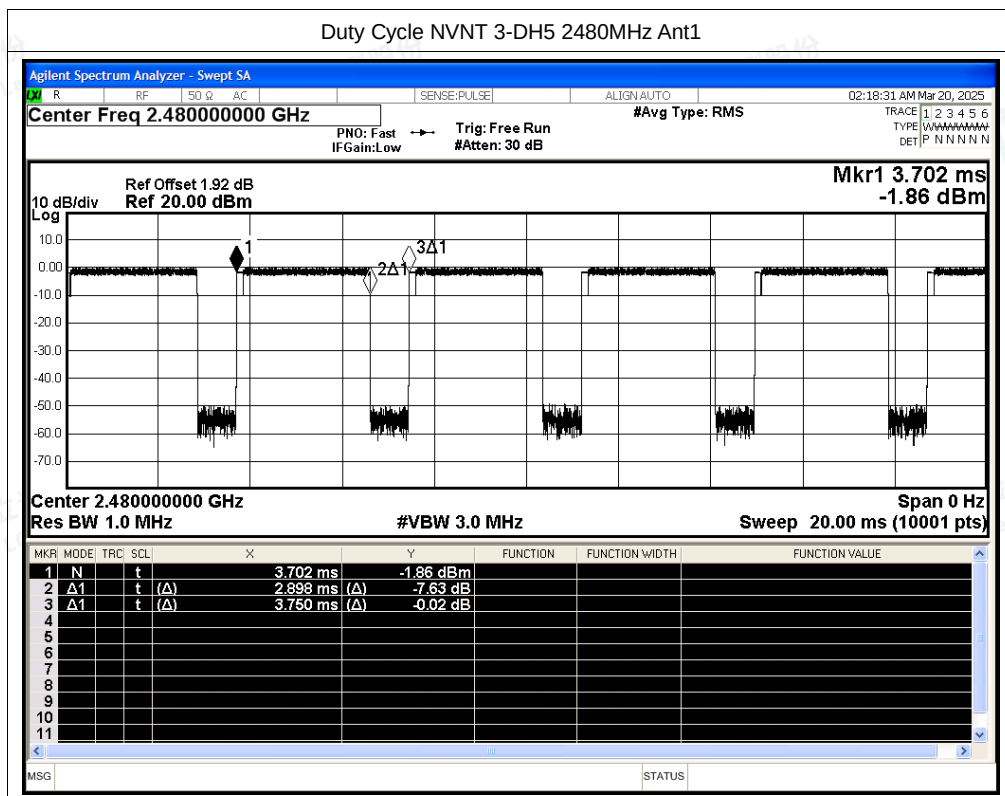


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A.9 Restrict Band

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	-50.24	2.71	-	47.73	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.1	2.71	1.1	39.97	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2324.112	-48.4	2.71	-	49.57	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2387.856	-57.86	2.71	1.1	41.21	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.43	2.71	-	47.54	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.46	2.71	1.1	40.61	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.6	2.71	-	47.37	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.98	2.71	1.1	41.09	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.256	-46	2.71	-	51.97	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.736	-57.14	2.71	1.1	41.93	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.97	2.71	-	48.00	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.79	2.71	1.1	41.28	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.54	2.71	-	47.43	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.74	2.71	1.12	40.35	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2367.312	-47.34	2.71	-	50.63	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2353.488	-57.82	2.71	1.12	41.27	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.91	2.71	-	48.06	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.48	2.71	1.12	40.61	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.69	2.71	-	47.28	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.66	2.71	1.12	41.43	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2486.584	-46.77	2.71	-	51.20	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2486.224	-57.08	2.71	1.12	42.01	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.2	2.71	-	46.77	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.98	2.71	1.12	41.11	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-52.23	2.71	-	45.74	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-59.66	2.71	1.12	39.43	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2369.232	-48.1	2.71	-	49.87	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2344.56	-57.82	2.71	1.12	41.27	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.2	2.71	-	46.77	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.78	2.71	1.12	40.31	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-47.28	2.71	-	50.69	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.62	2.71	1.12	41.47	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.496	-46.14	2.71	-	51.83	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.656	-57.09	2.71	1.12	42.00	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-51.43	2.71	-	46.54	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.18	2.71	1.12	40.91	Average	54	Pass



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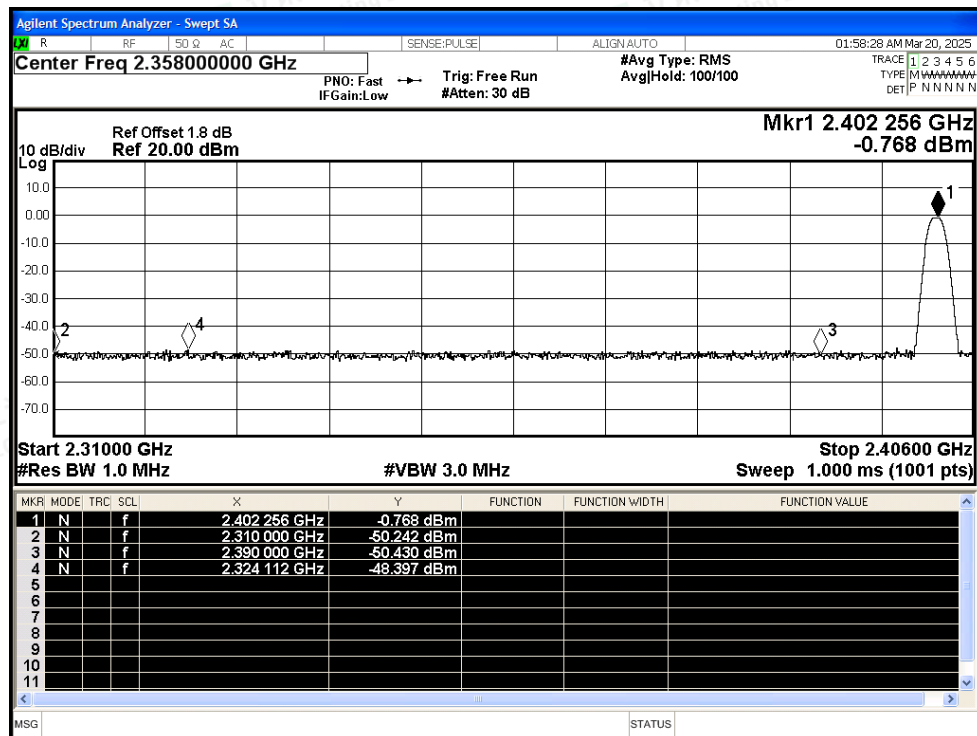
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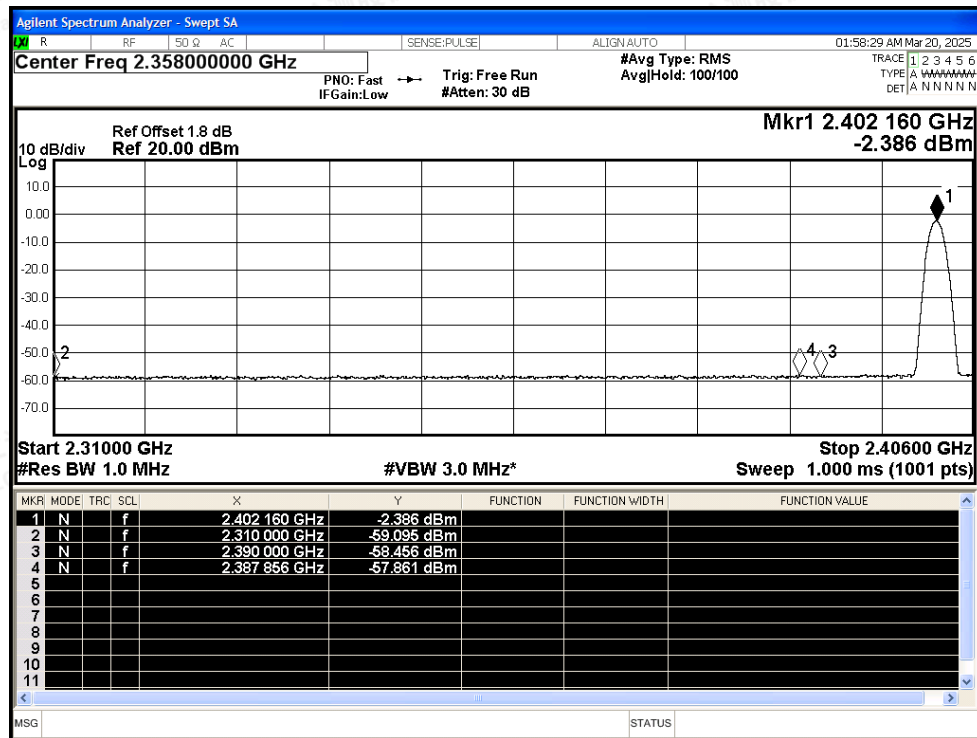


Test Graphs

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



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

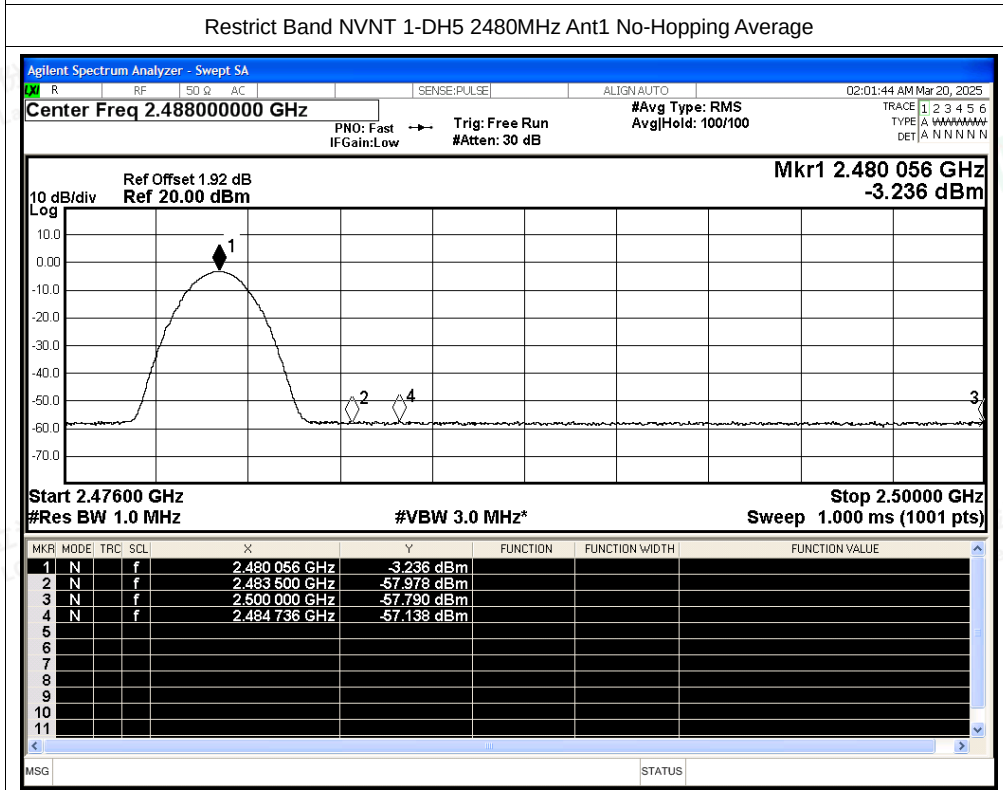
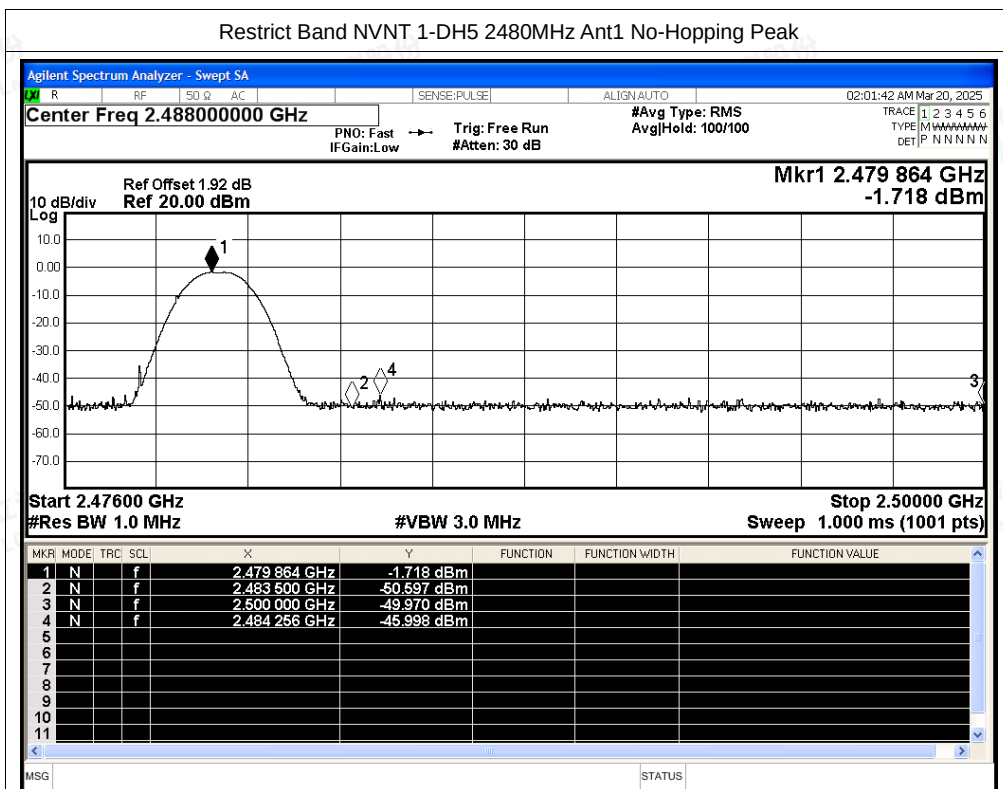


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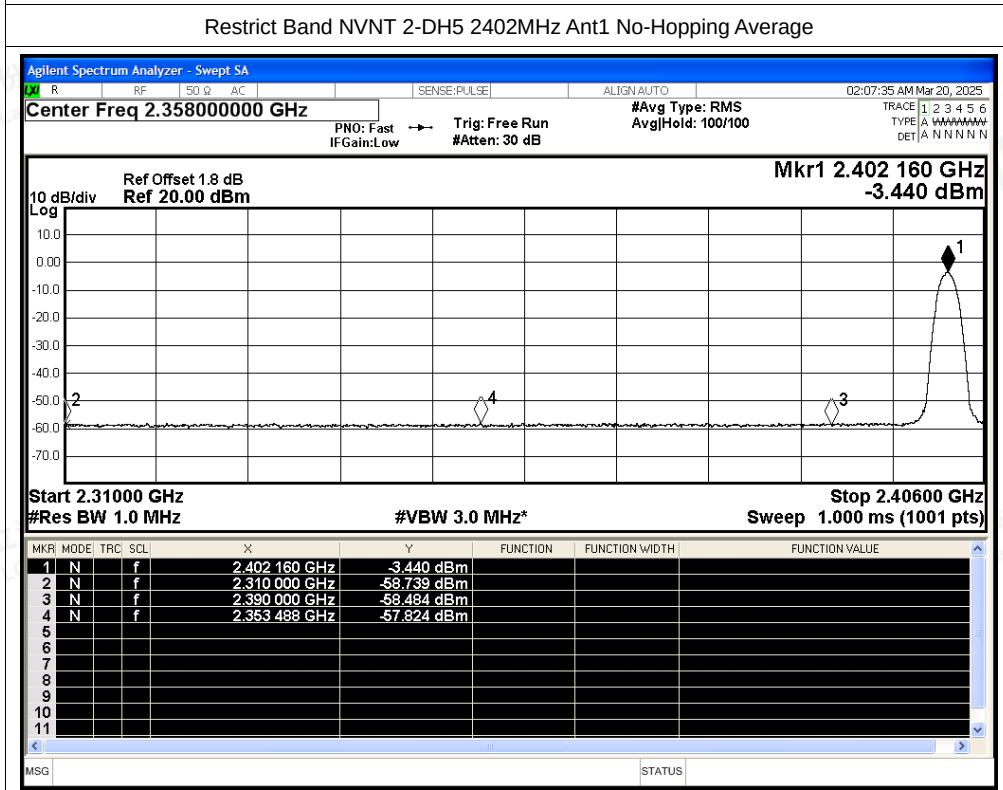
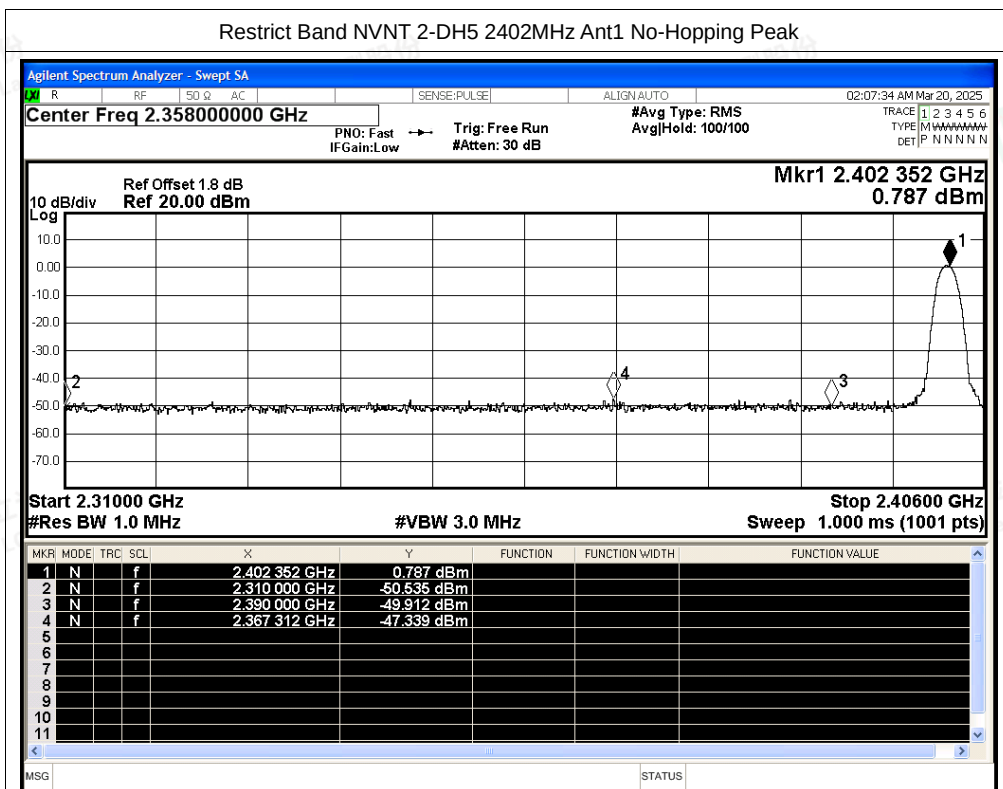


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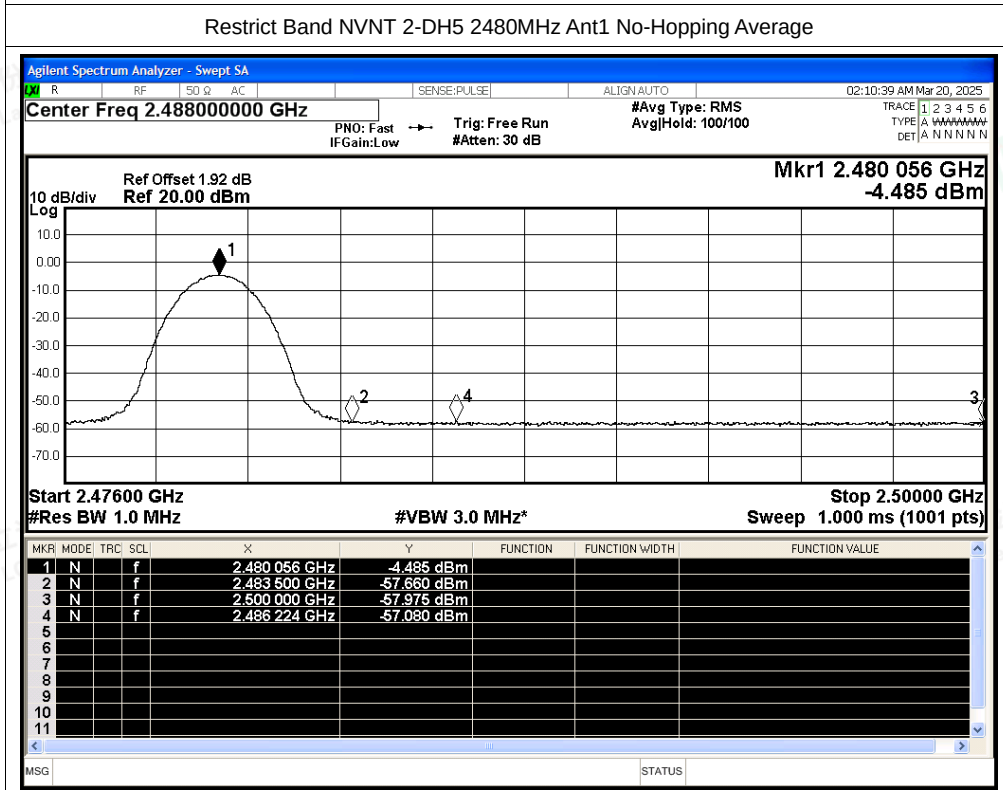
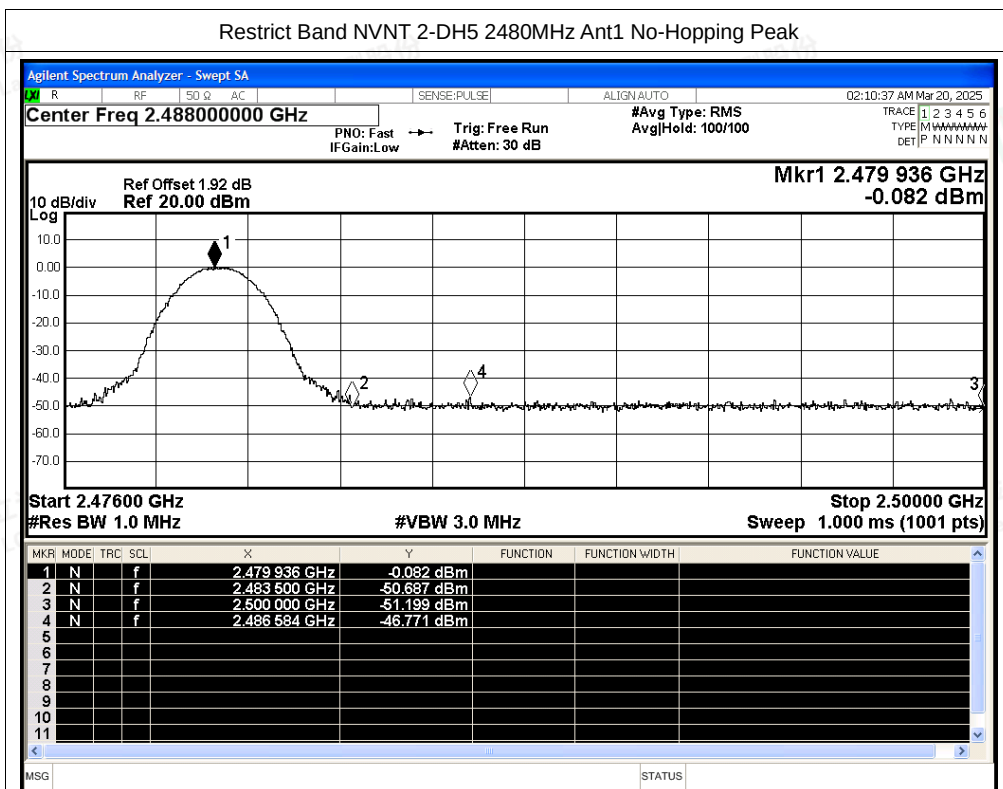


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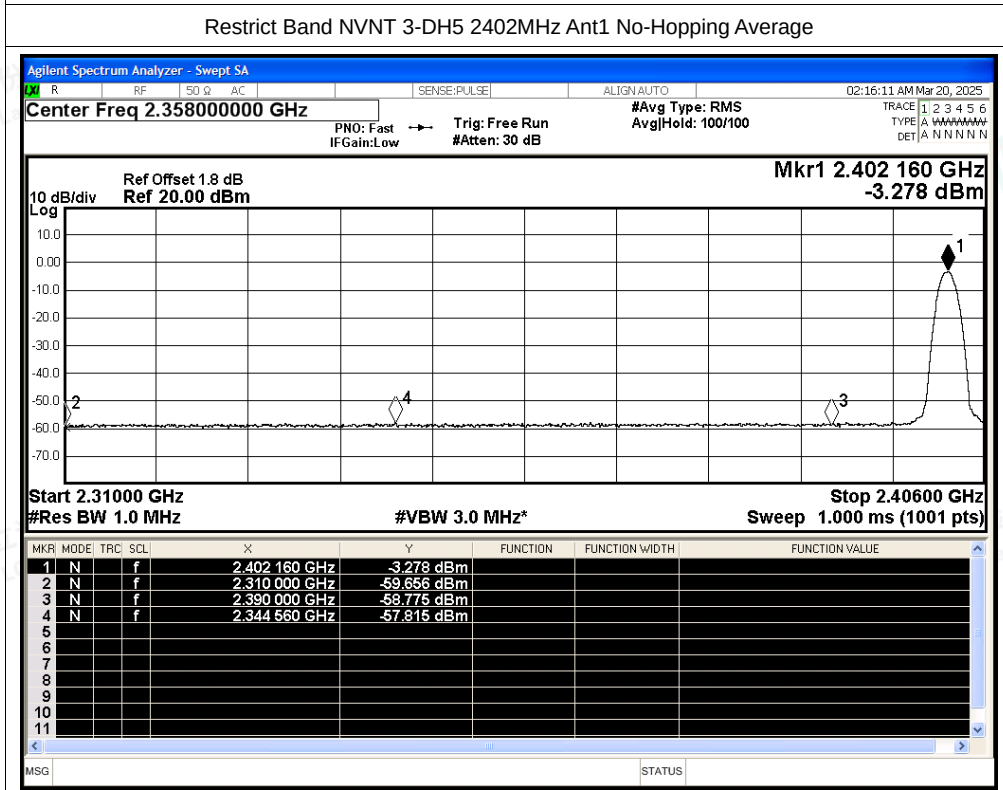
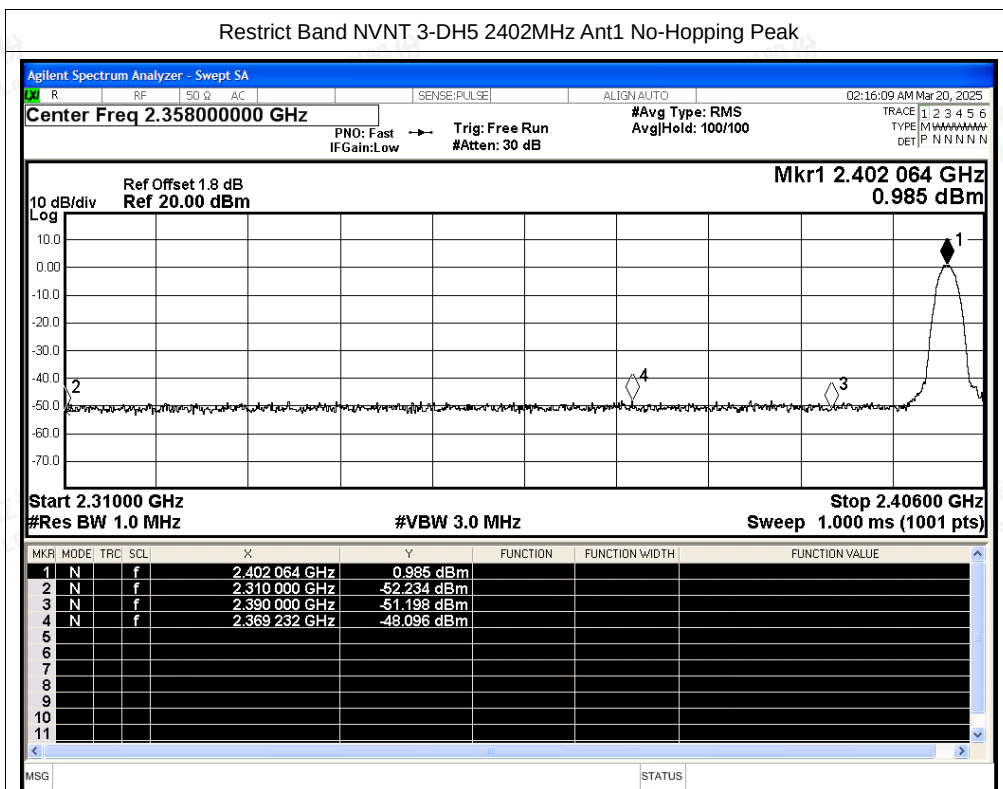


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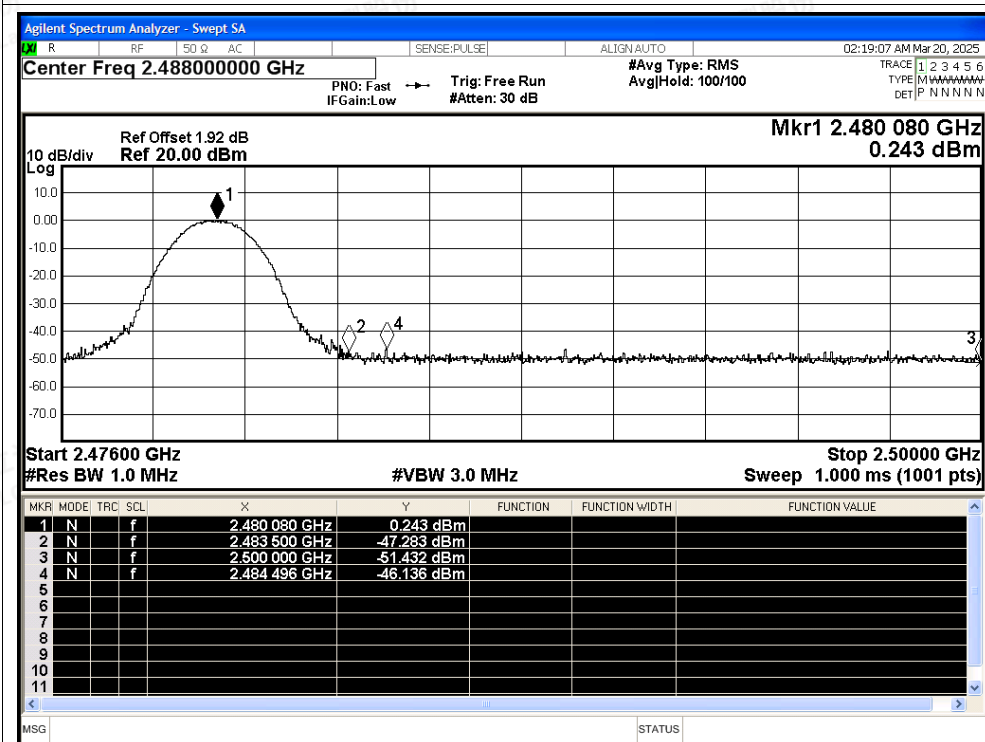
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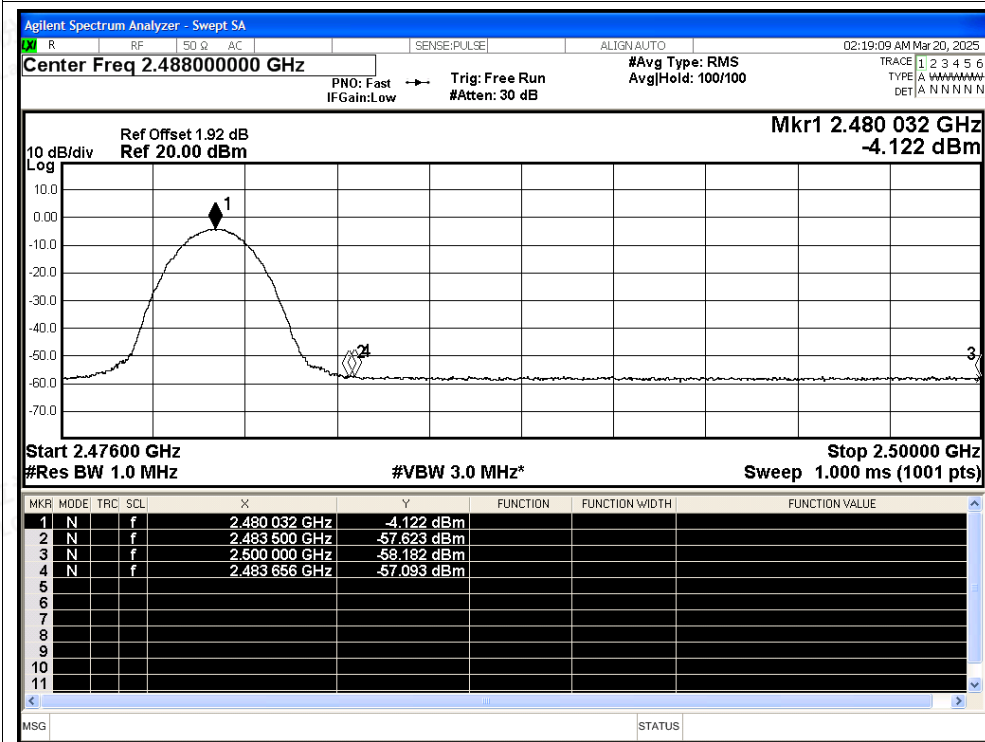
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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