



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Open Ear Wireless Headphones

Test Model: TS2427

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	0.96	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.005	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.02	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.287	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.286	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.282	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.295	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.305	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.297	N/A	Pass



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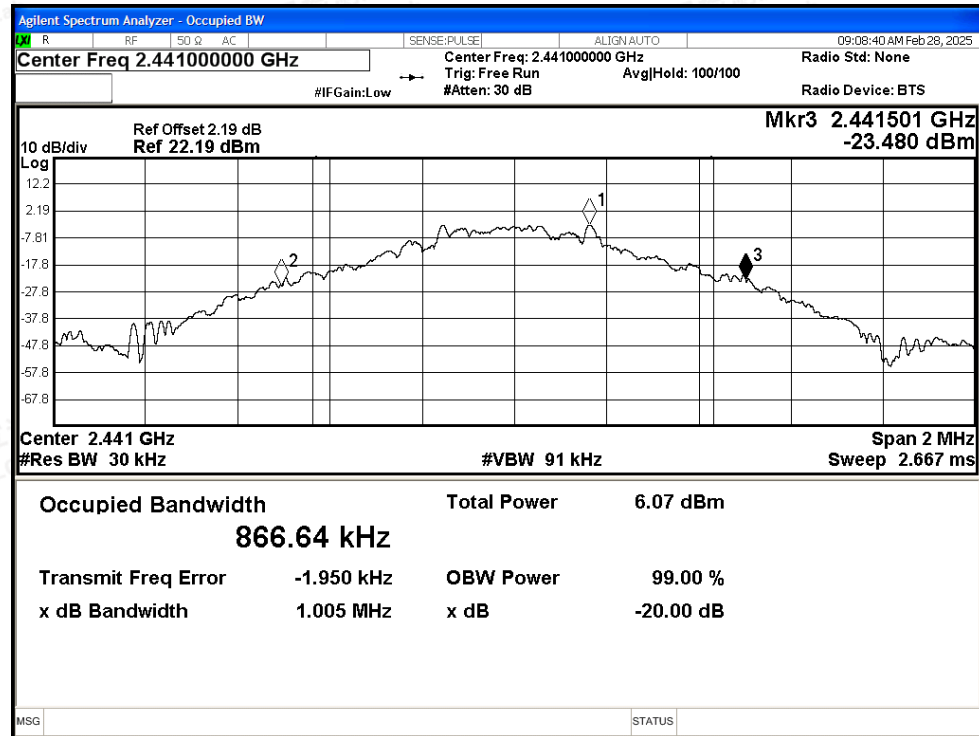


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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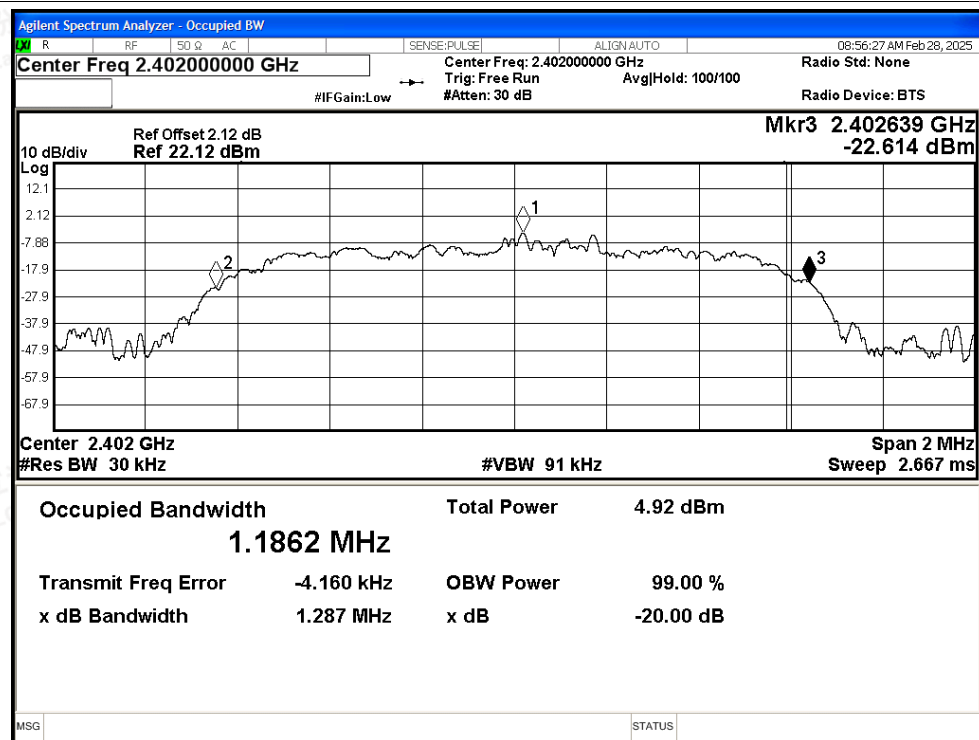
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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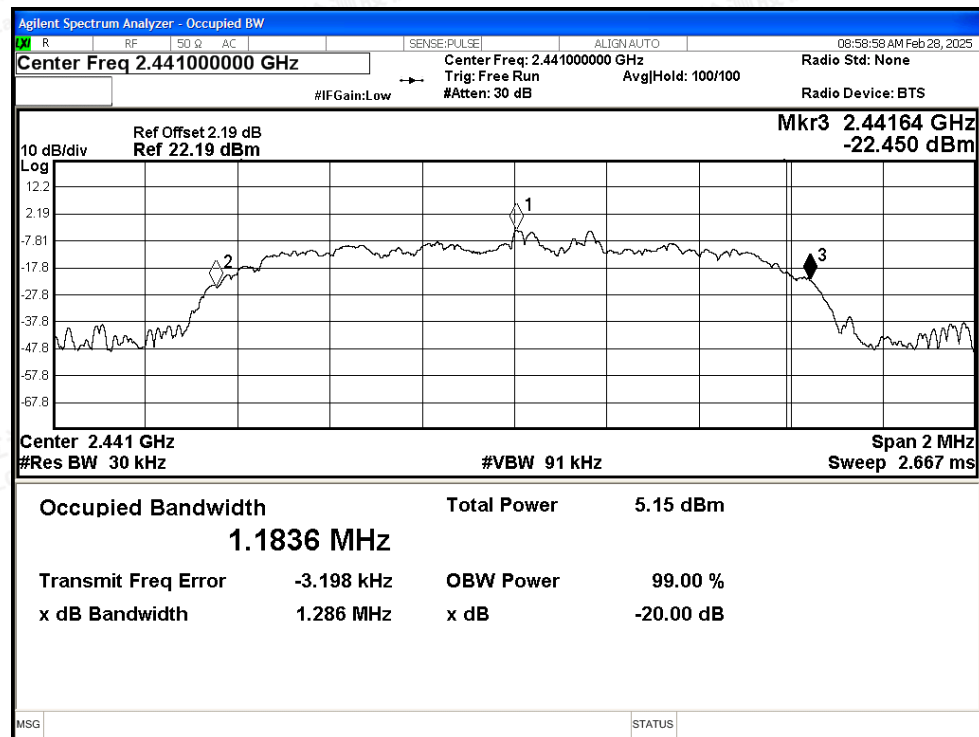
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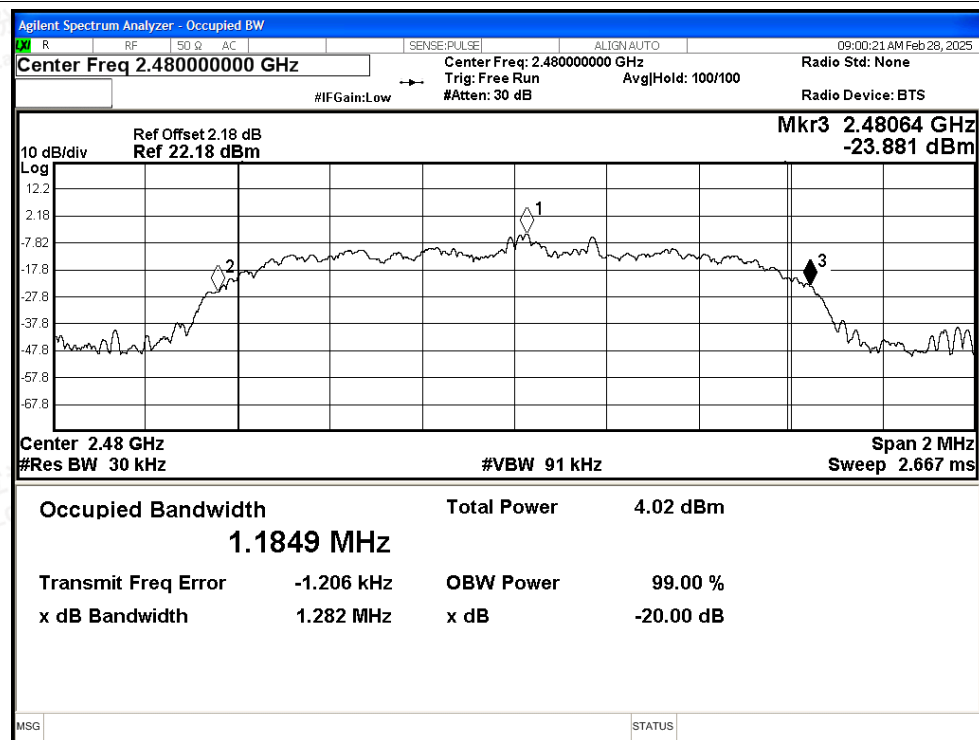
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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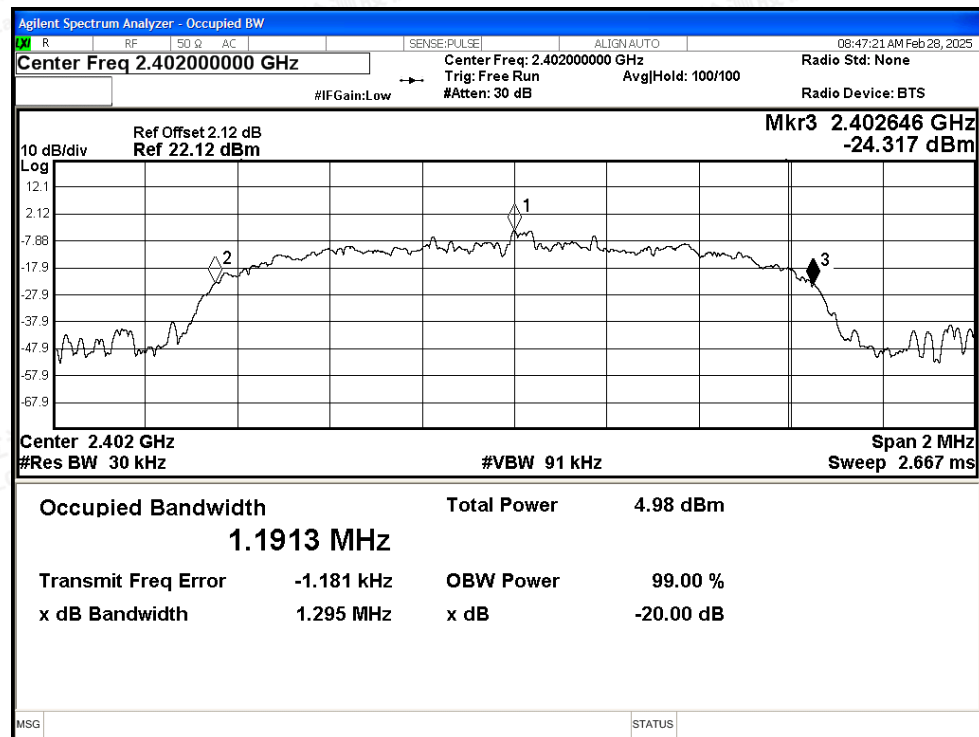
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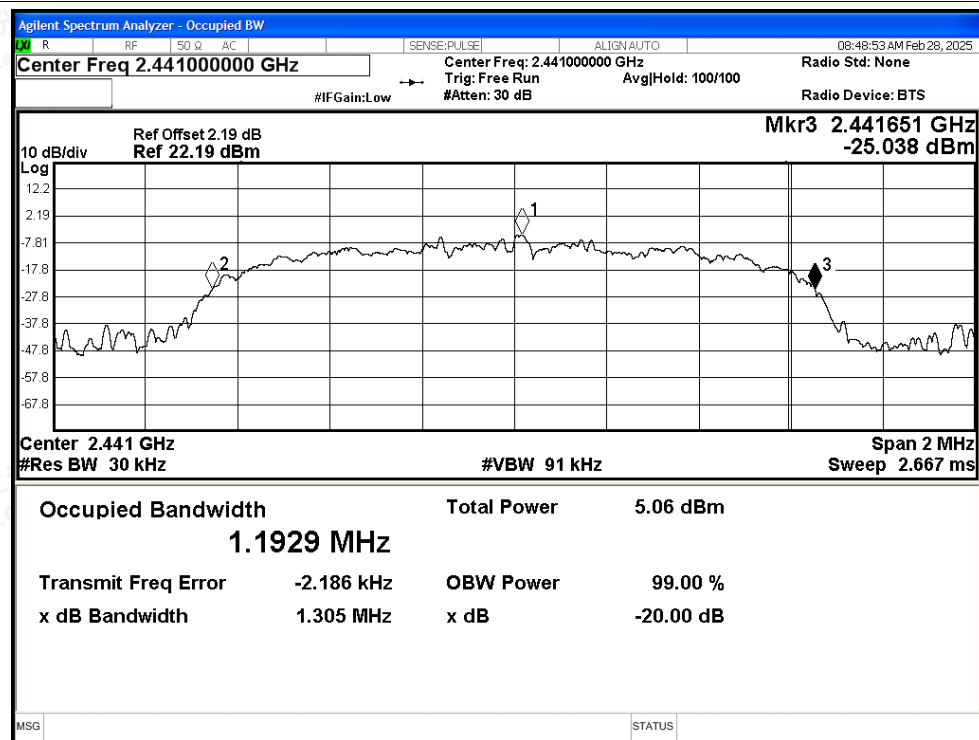
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

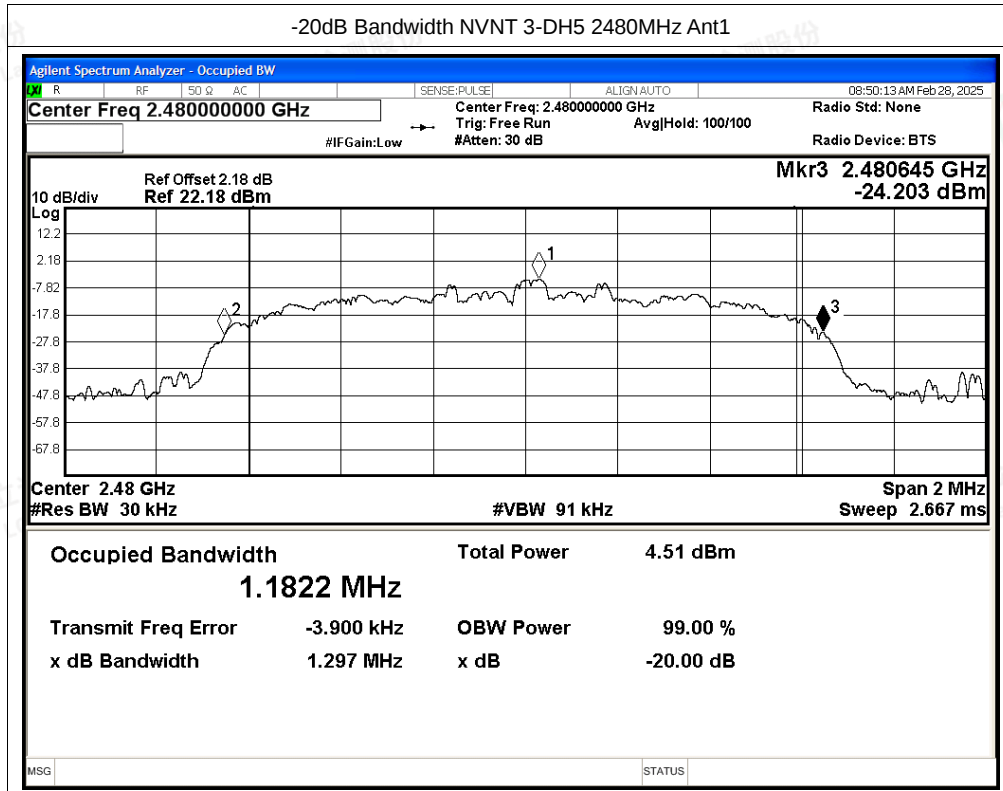


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-2.85	21	Pass
NVNT	1-DH5	2441	Ant1	-0.28	21	Pass
NVNT	1-DH5	2480	Ant1	0.08	21	Pass
NVNT	2-DH5	2402	Ant1	0.65	21	Pass
NVNT	2-DH5	2441	Ant1	0.85	21	Pass
NVNT	2-DH5	2480	Ant1	-0.27	21	Pass
NVNT	3-DH5	2402	Ant1	1.05	21	Pass
NVNT	3-DH5	2441	Ant1	1.33	21	Pass
NVNT	3-DH5	2480	Ant1	0.2	21	Pass



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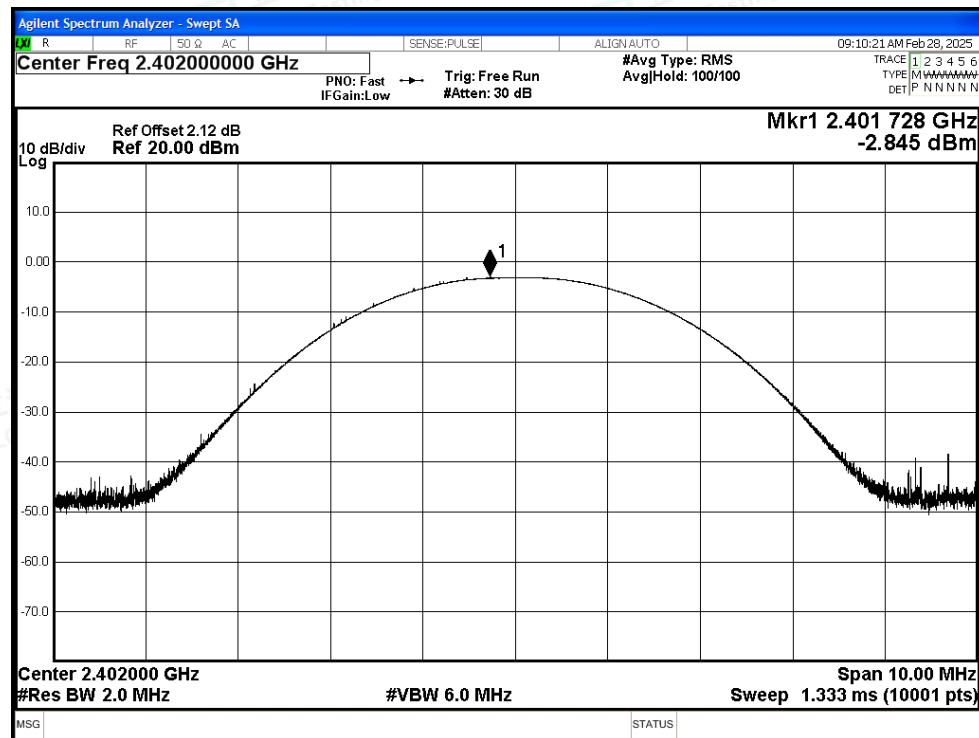
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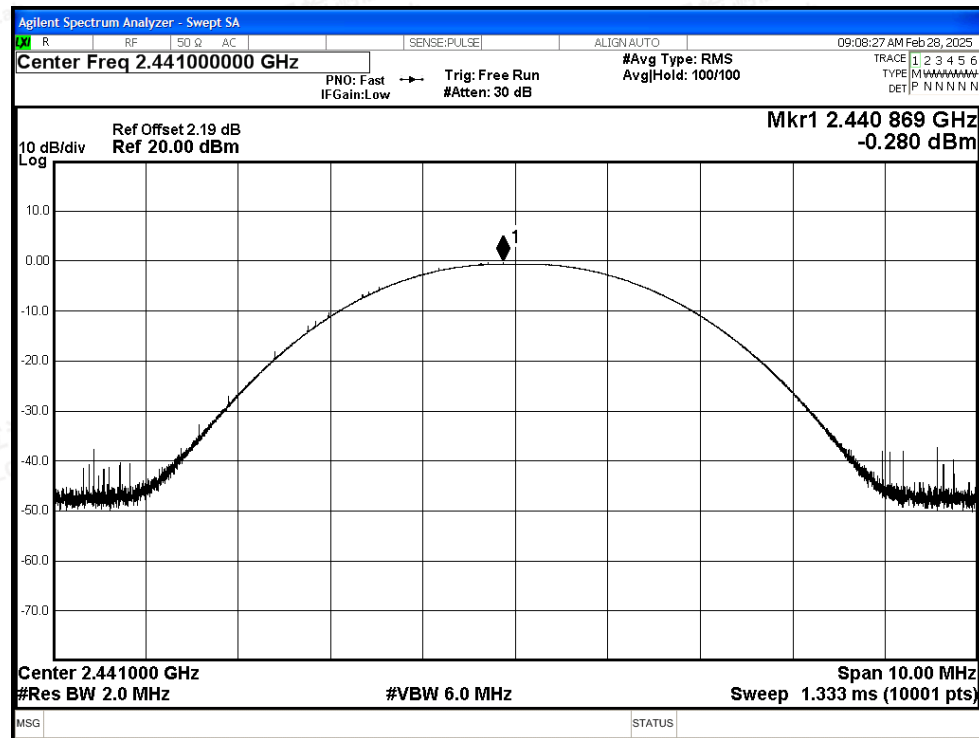


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

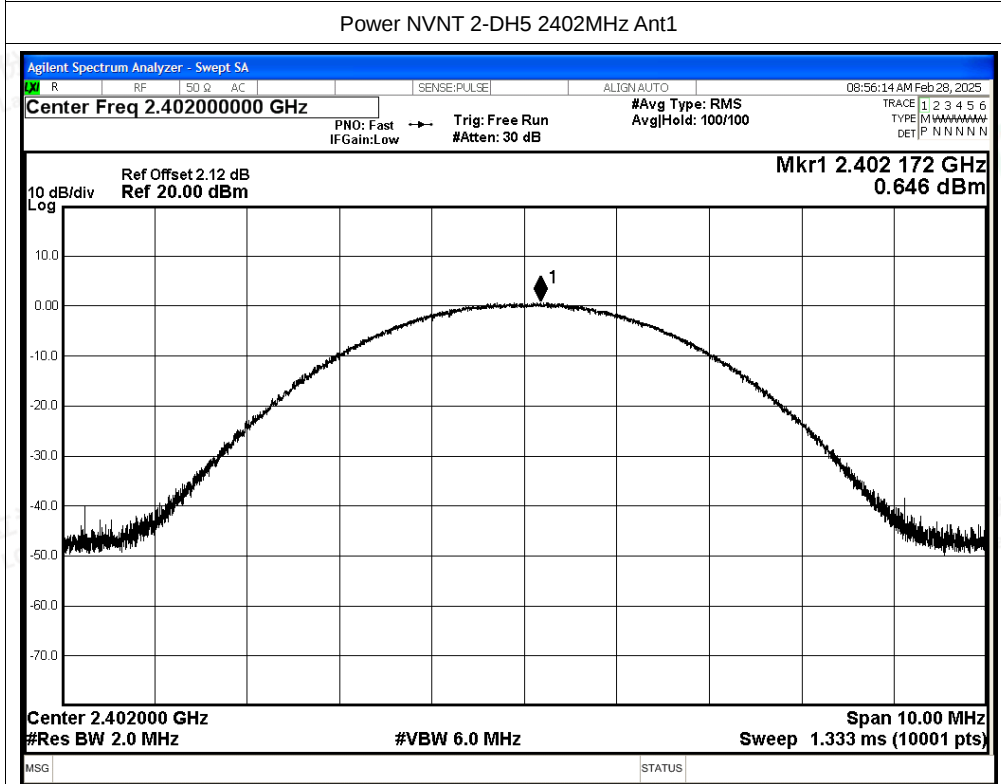
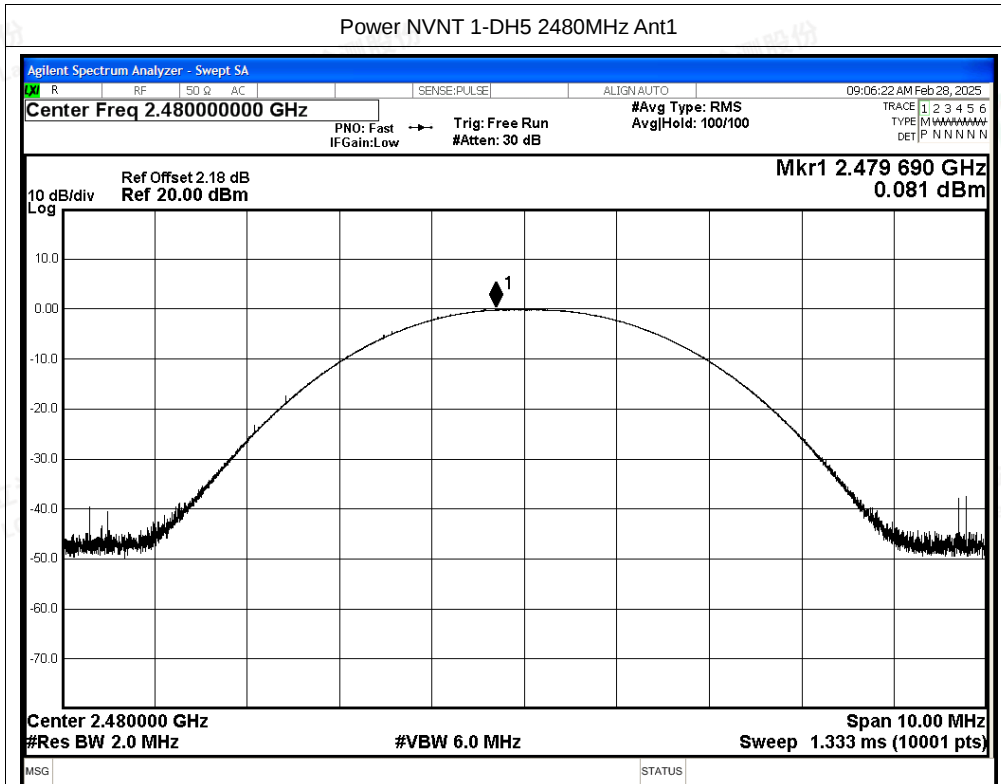


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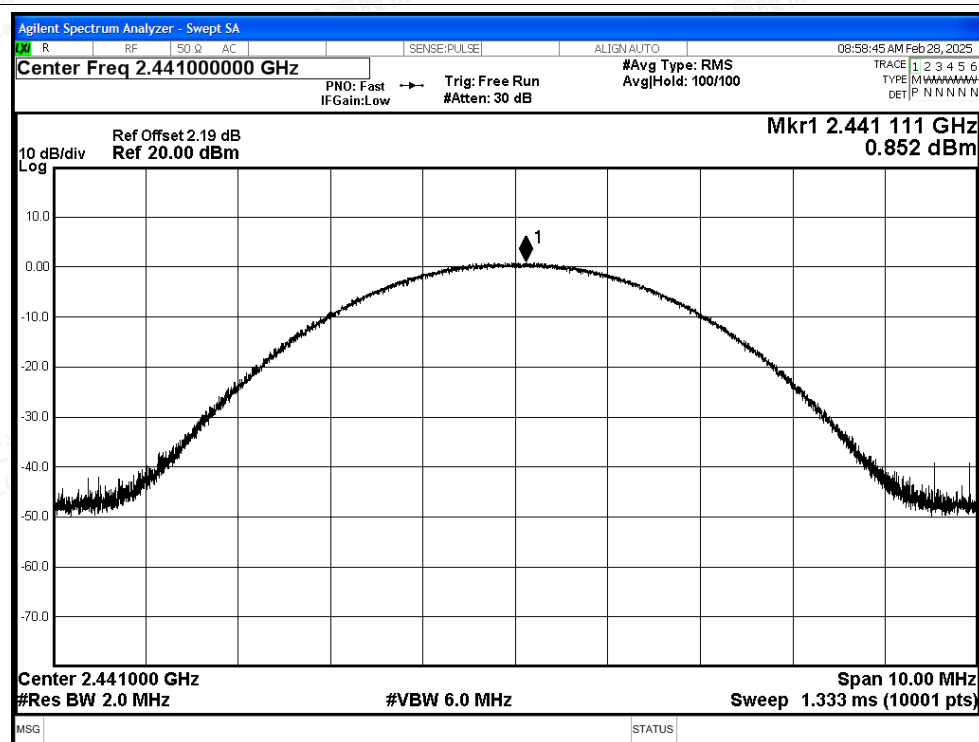
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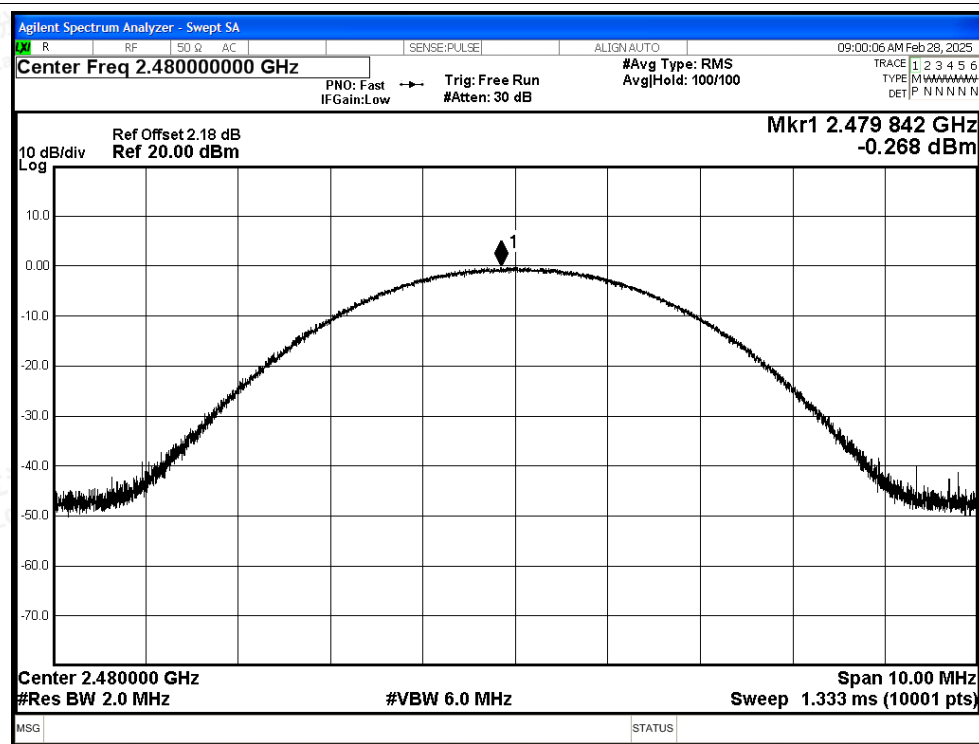
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Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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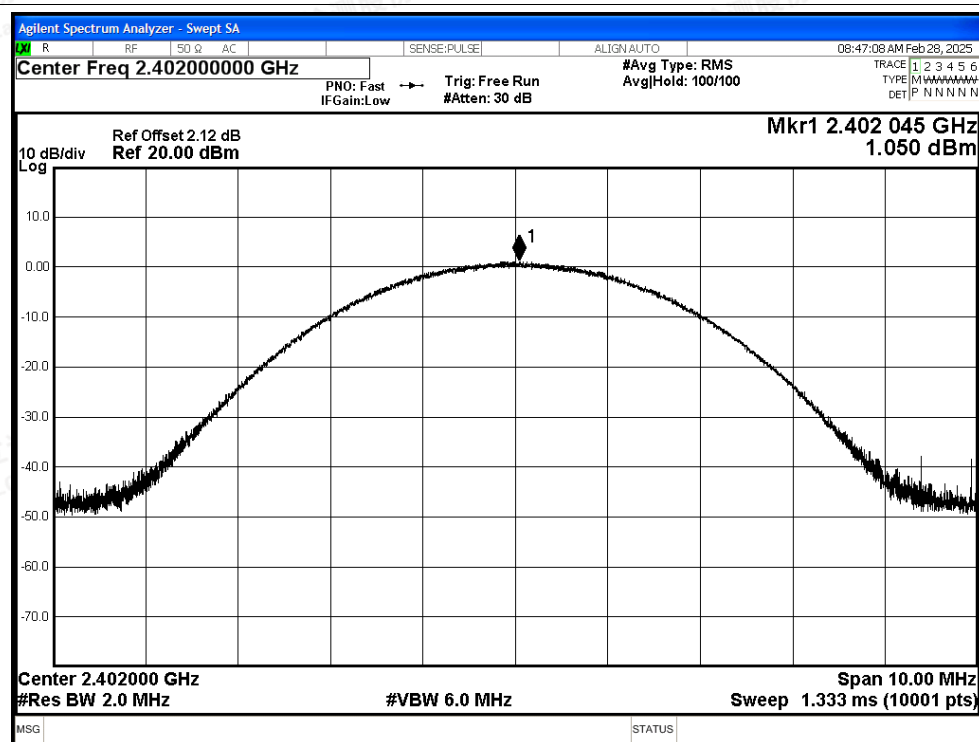
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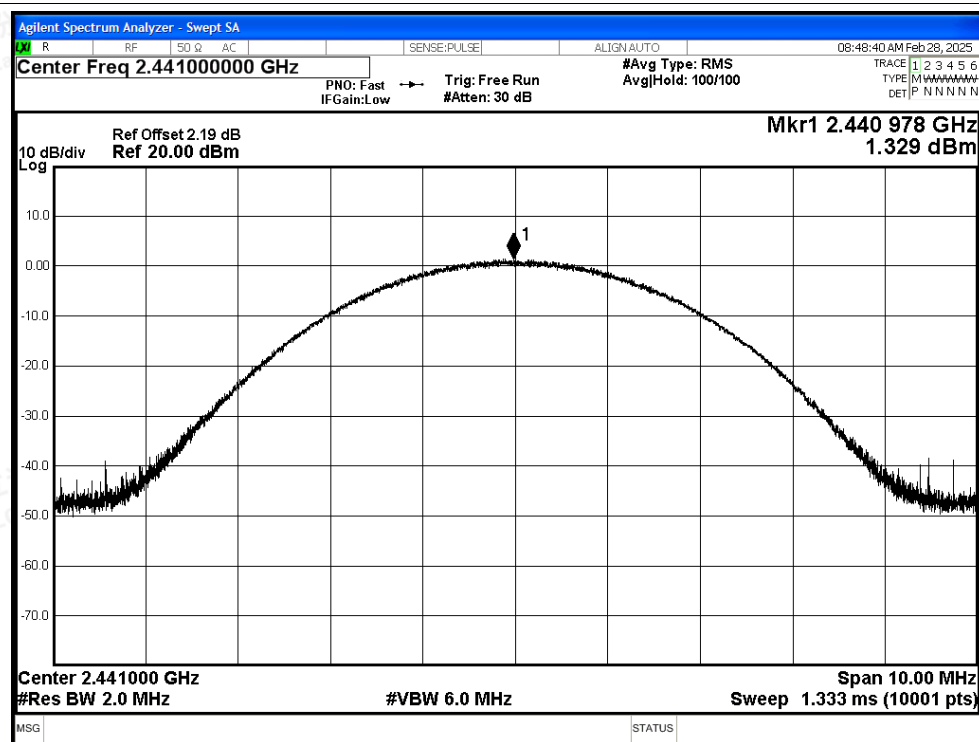
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Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

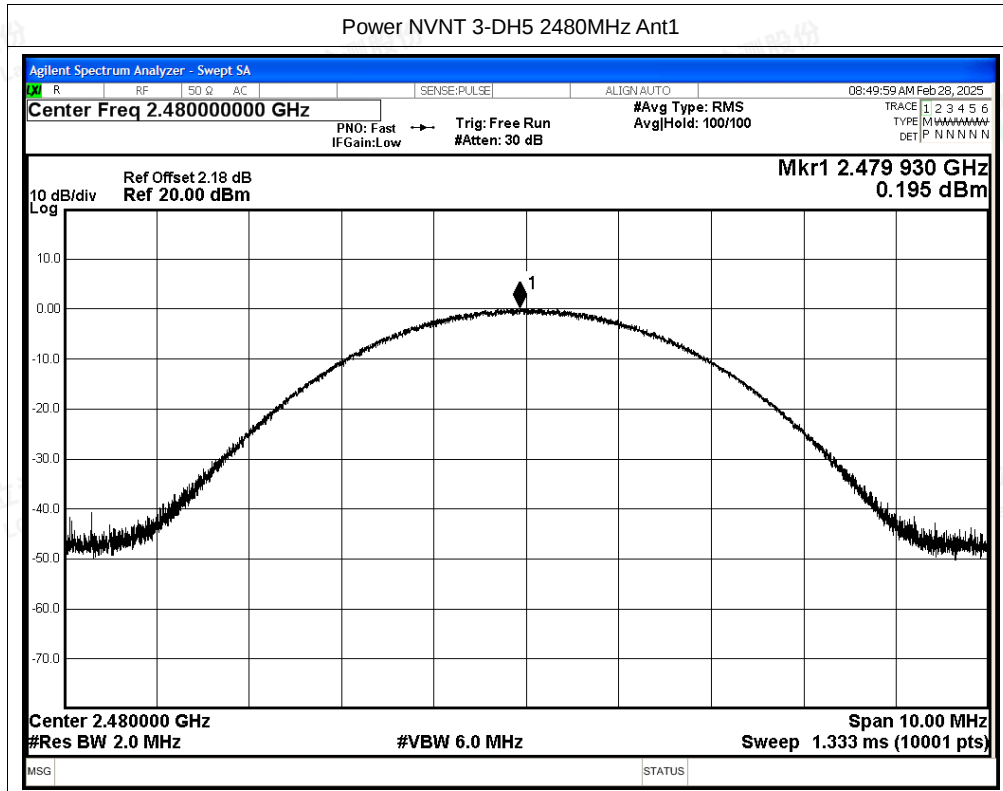


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.834	2402.842	1.008	0.680	Pass
NVNT	2-DH5	Ant1	2402.168	2403.106	0.938	0.858	Pass
NVNT	3-DH5	Ant1	2402.006	2403.014	1.008	0.870	Pass



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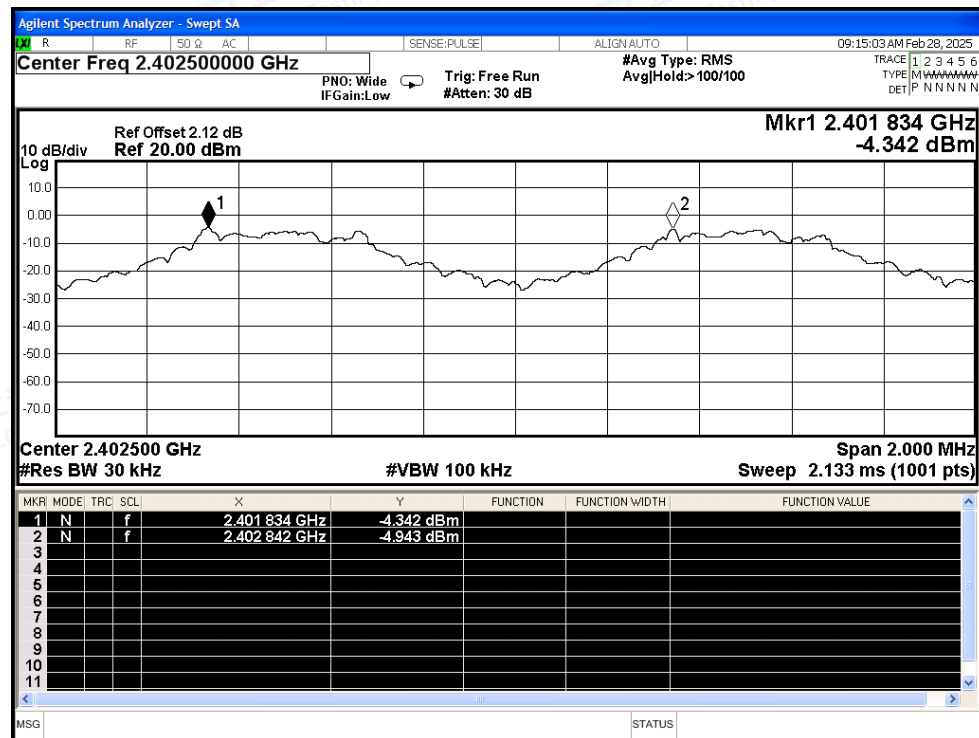
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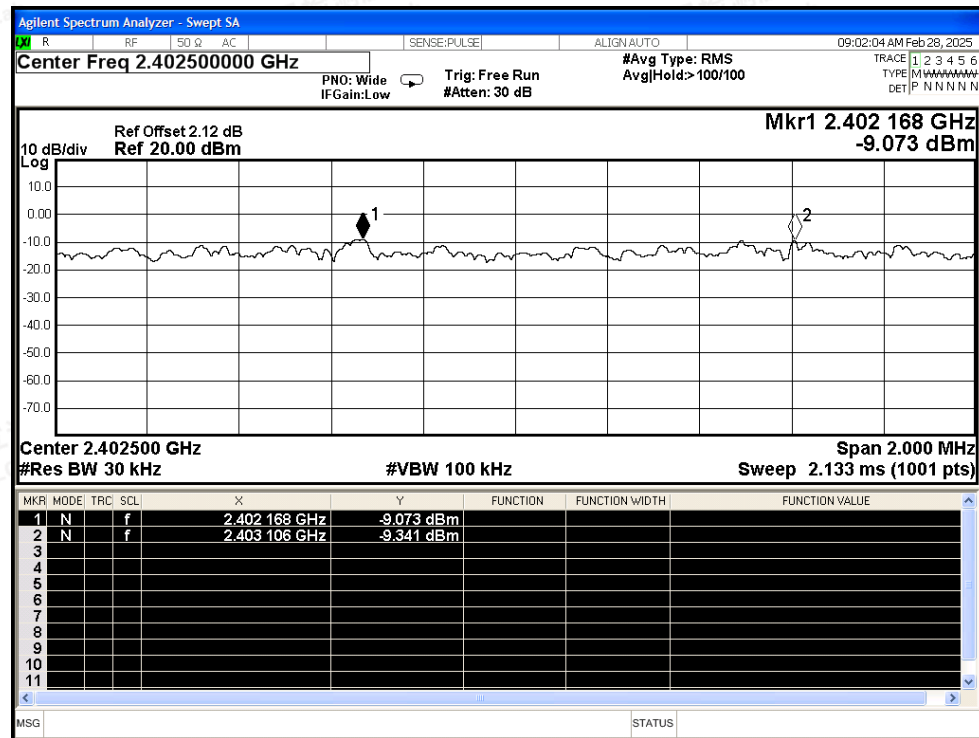


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

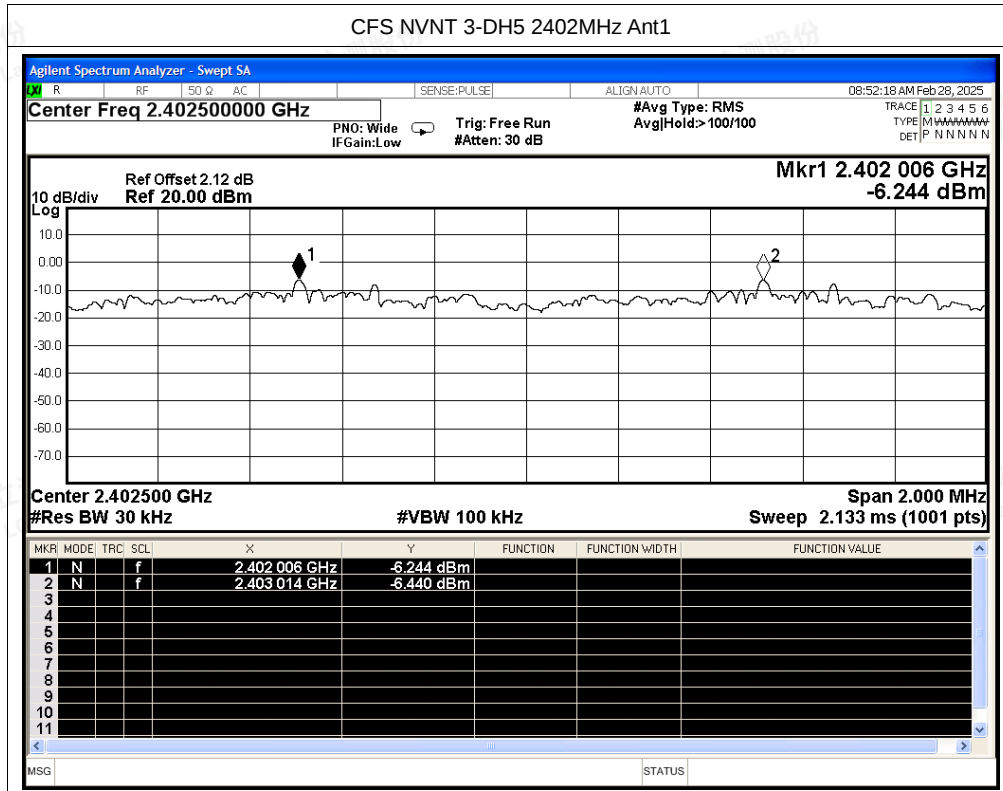


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A.4 Dwell Time

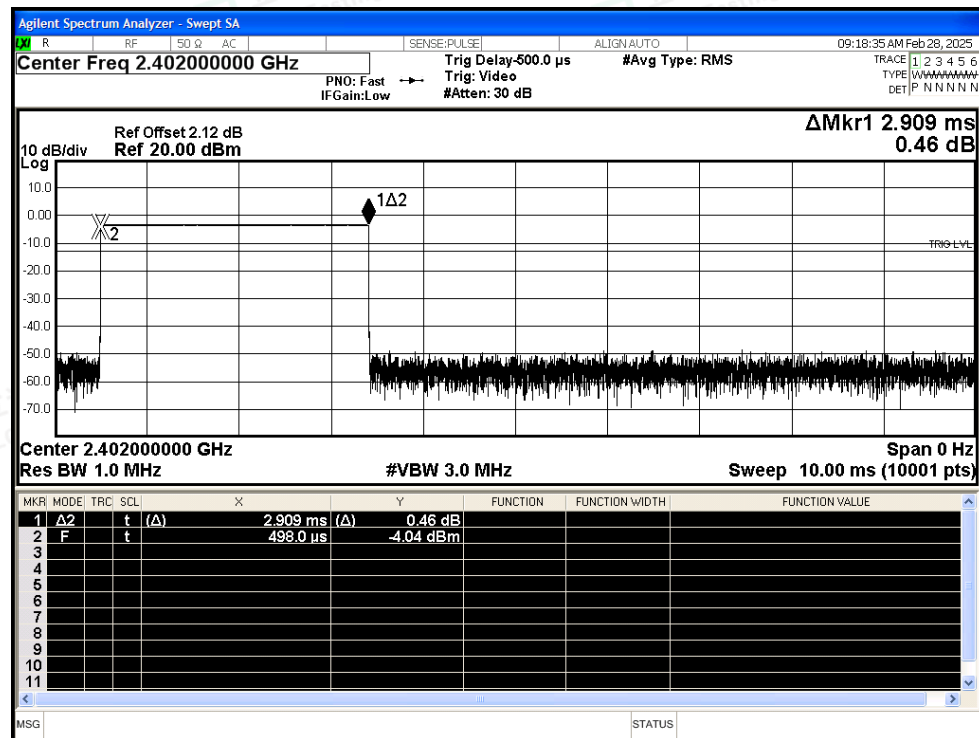
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.909	331.626	114	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	307.188	106	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	324.464	112	31600	400	Pass



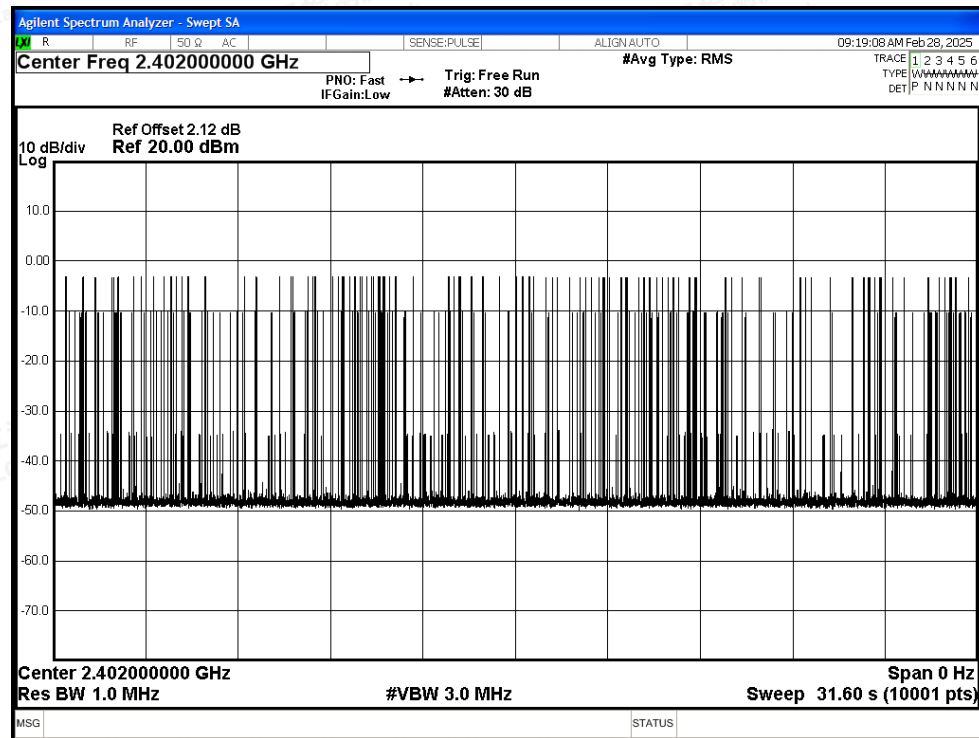


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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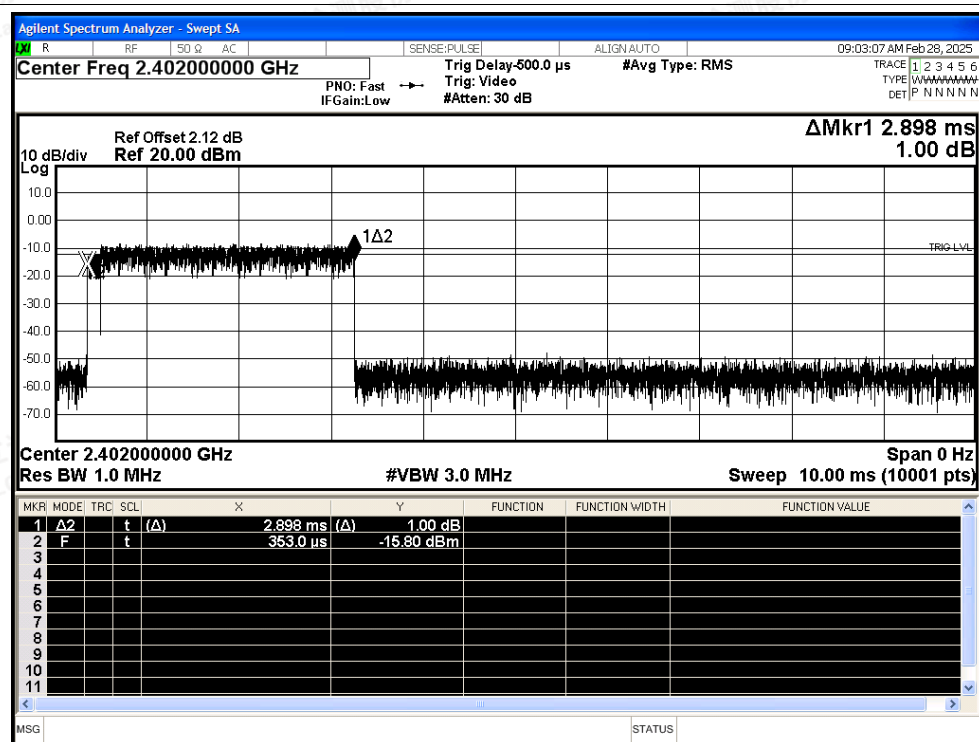
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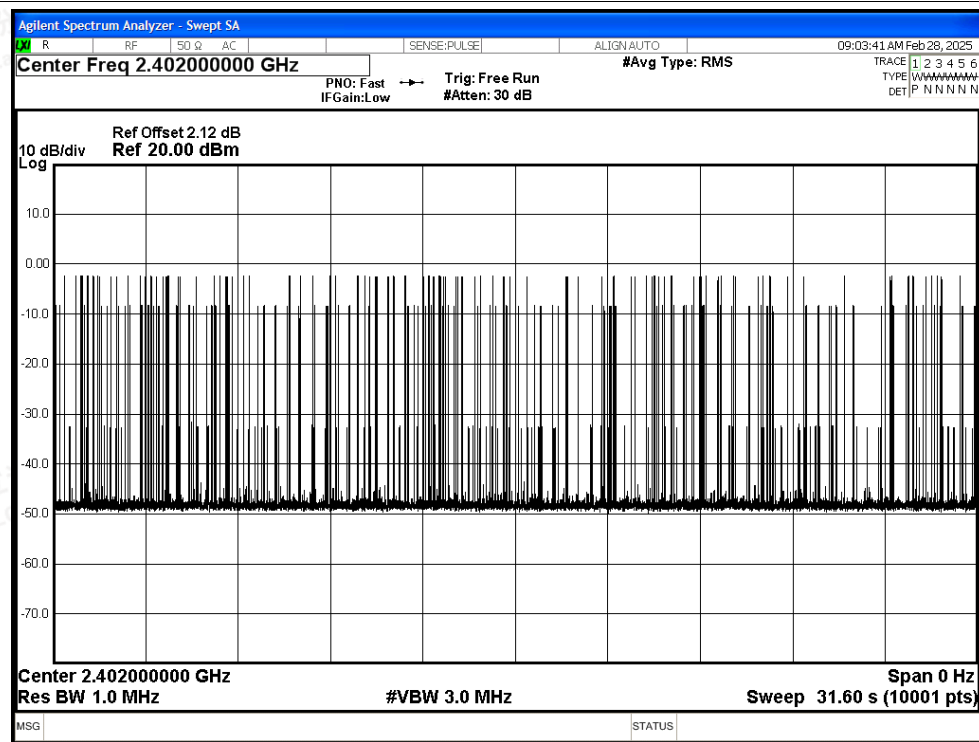
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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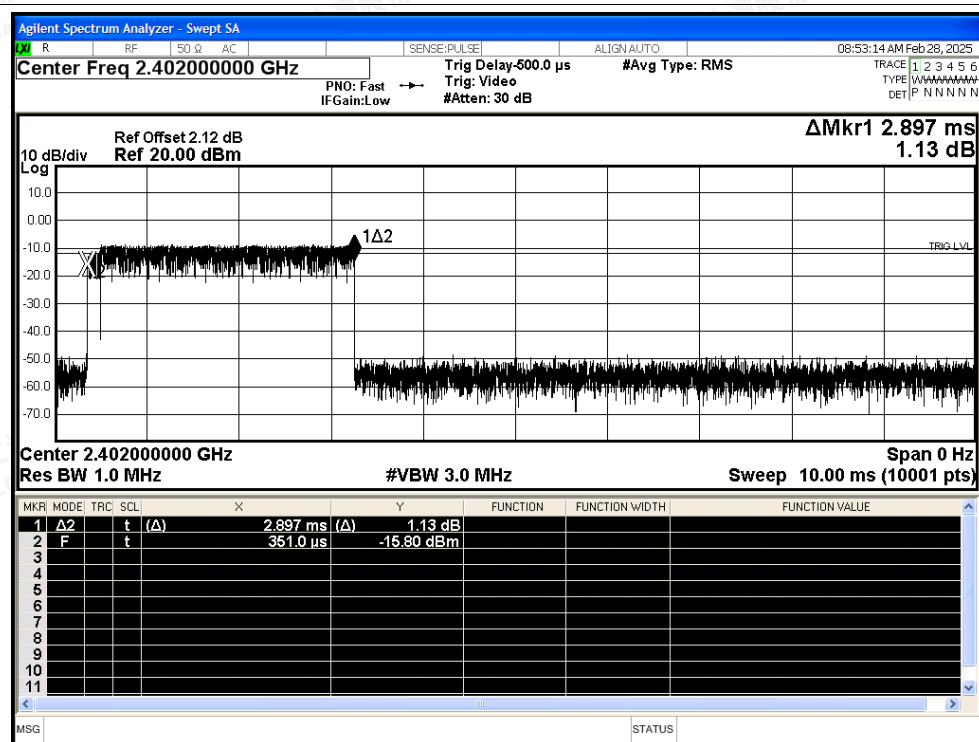
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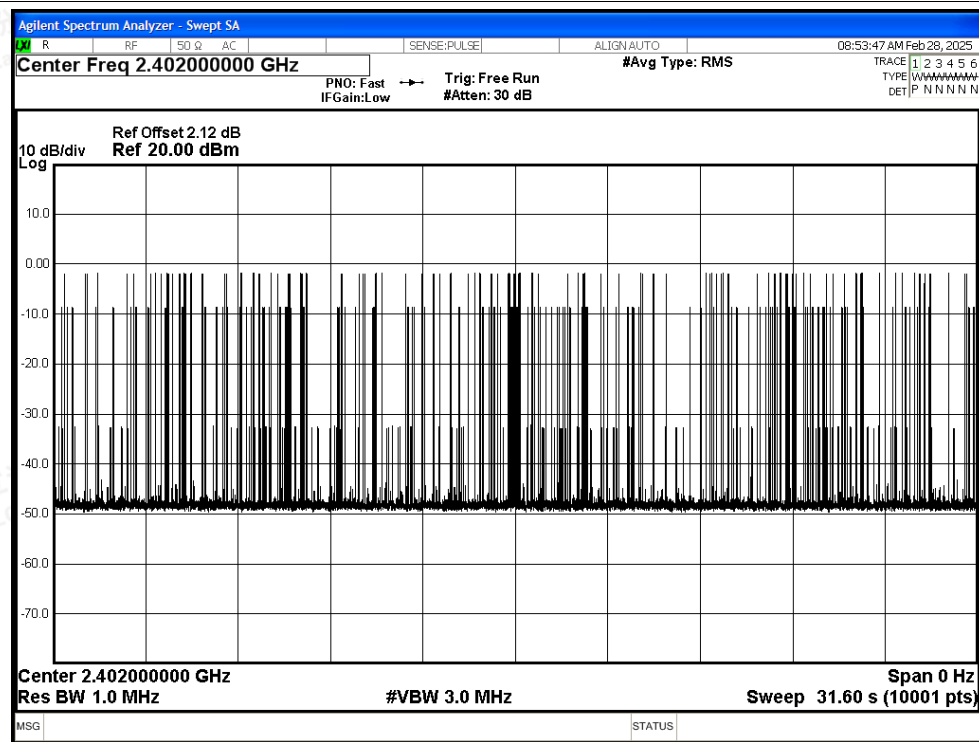
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

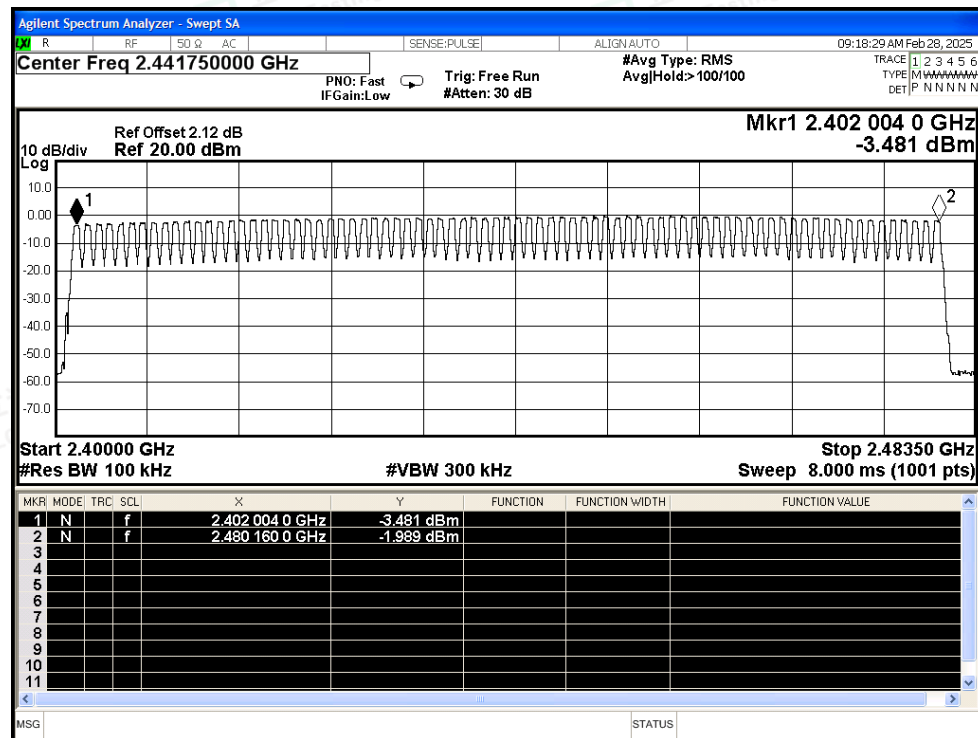
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



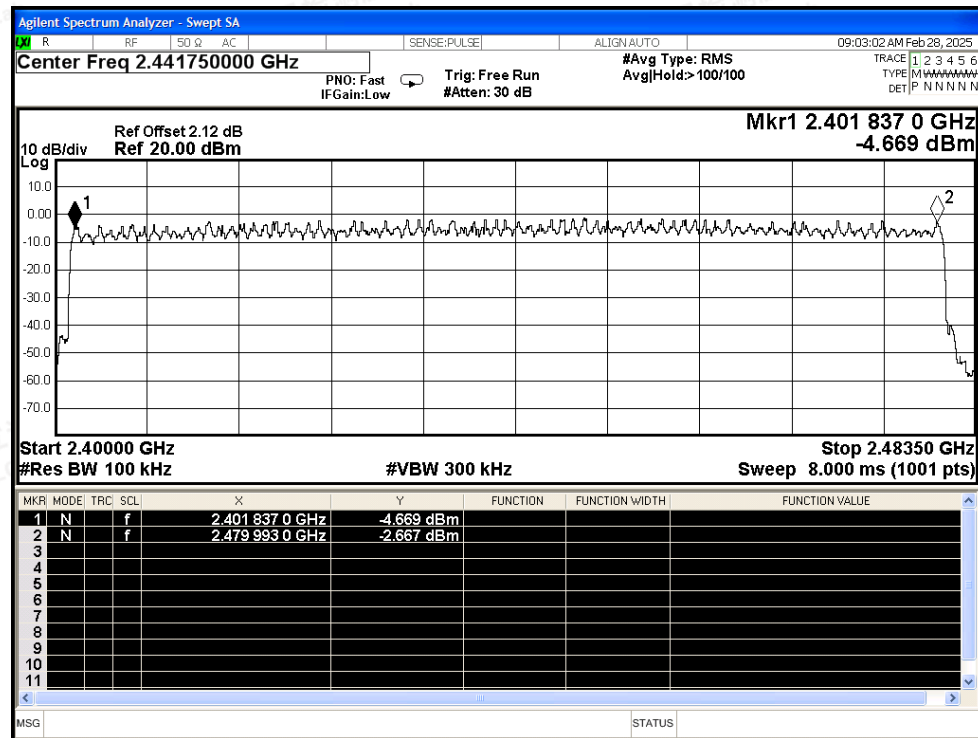


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

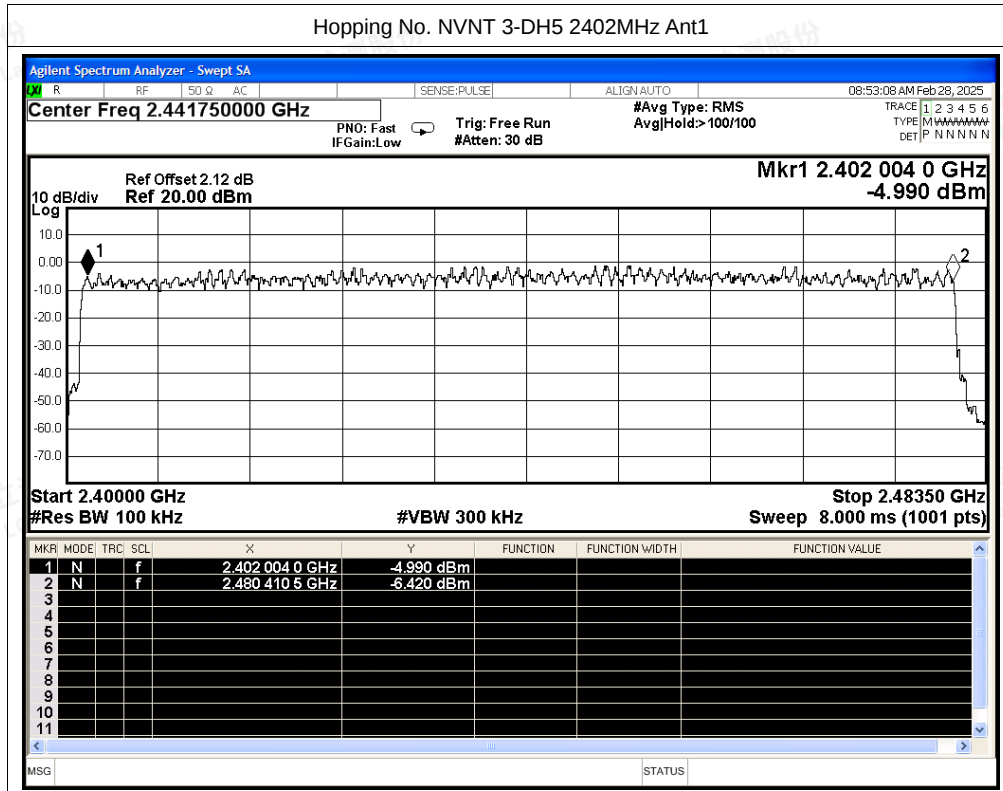


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-53.21	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.02	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50.97	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.23	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-49.48	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.6	-20	Pass



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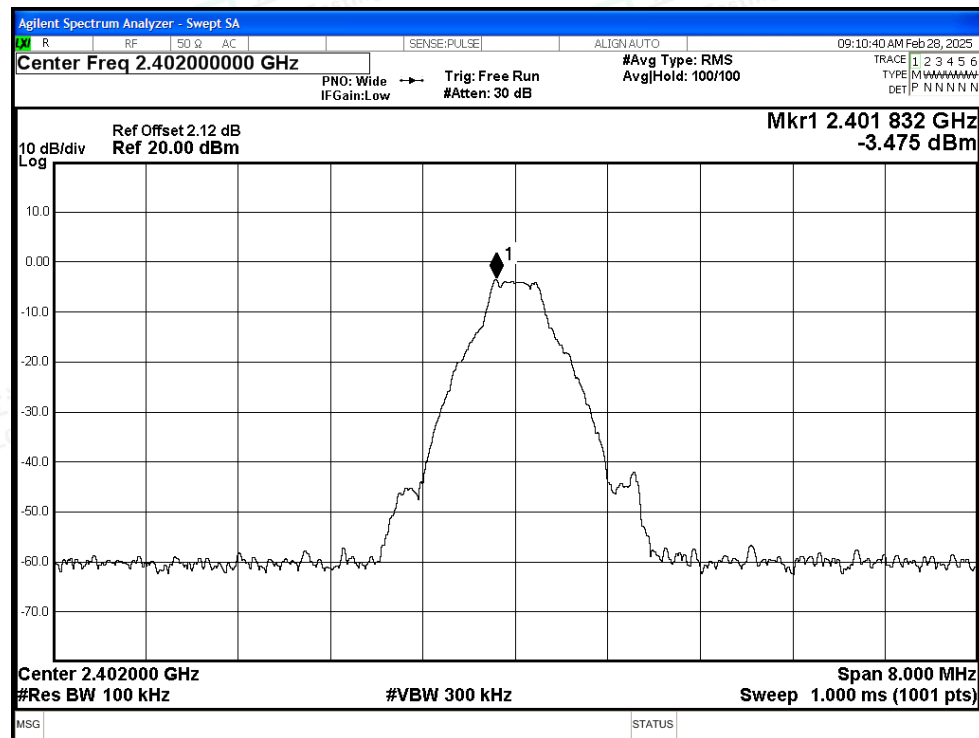
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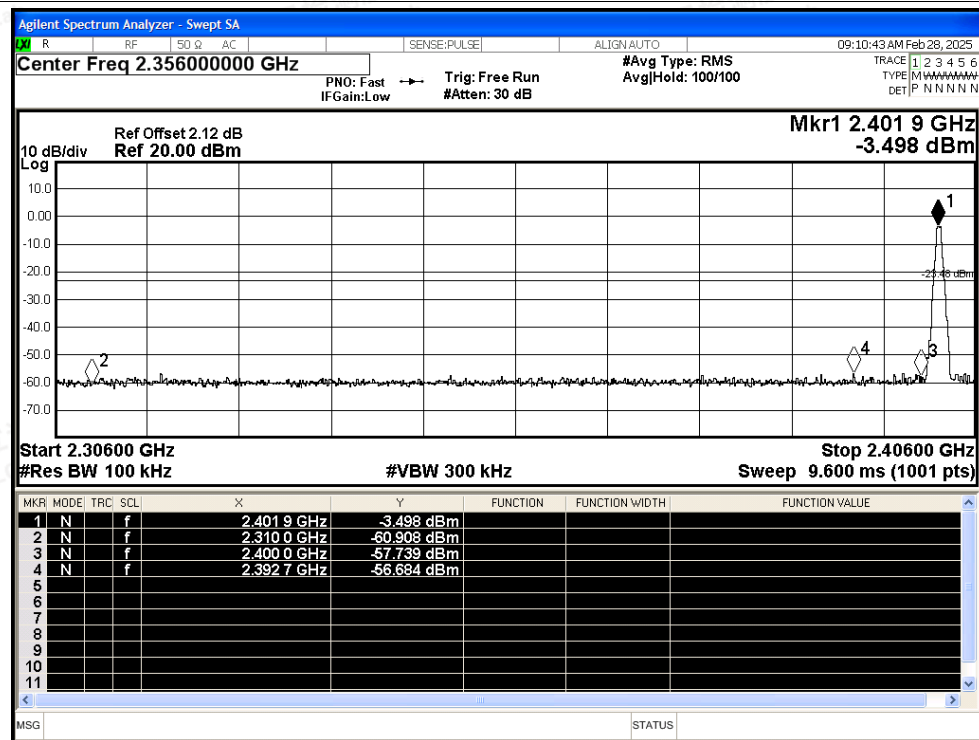


Test Graphs

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



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



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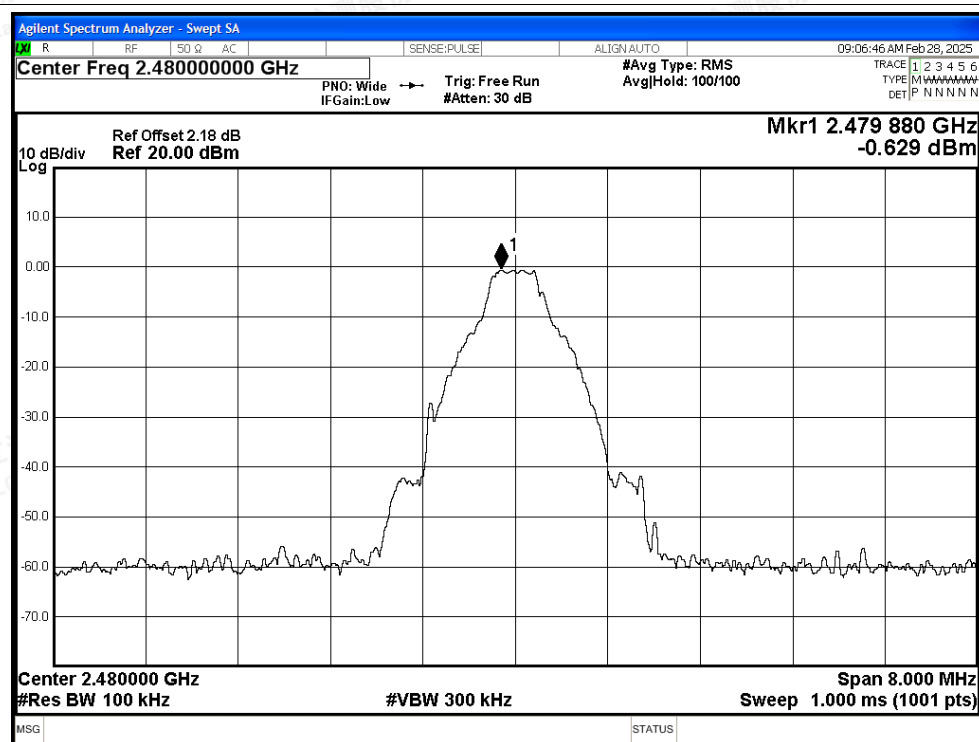
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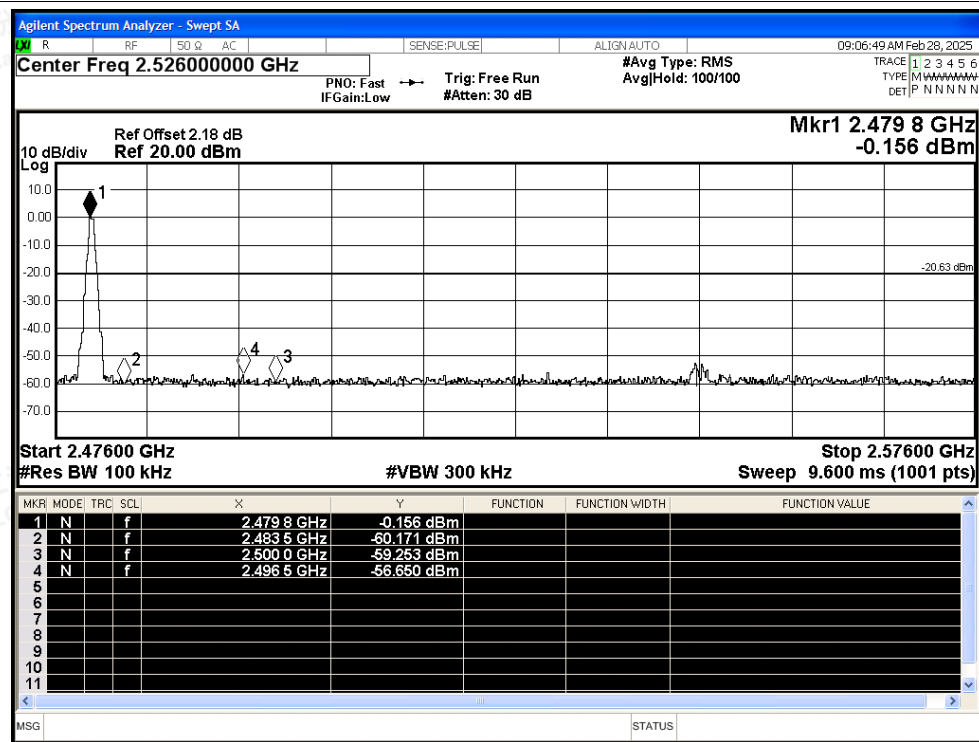
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

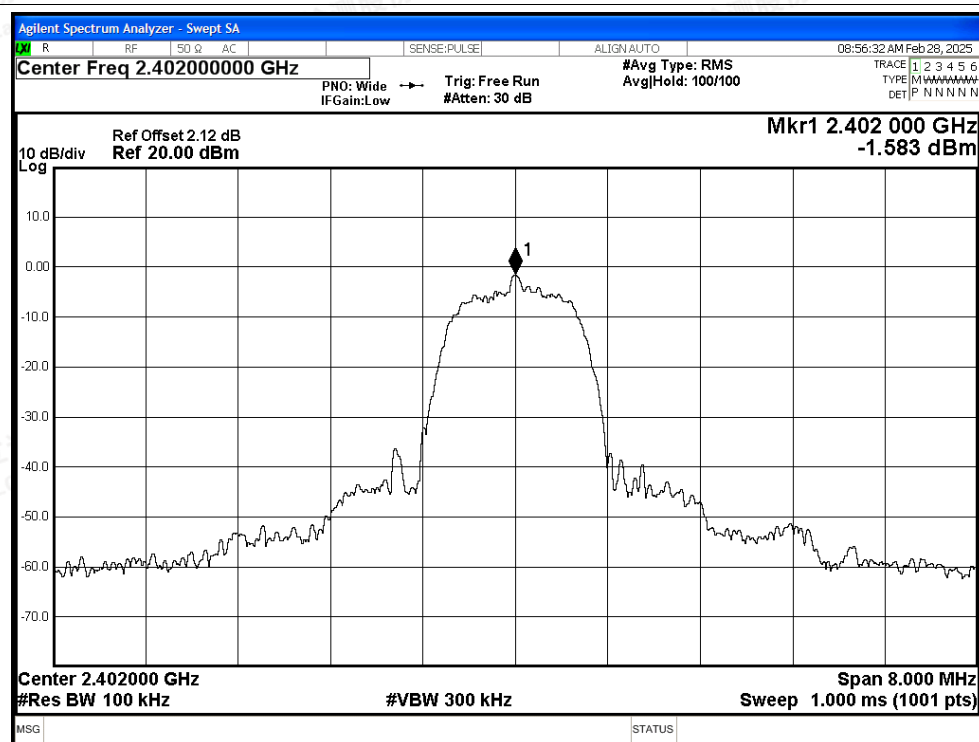
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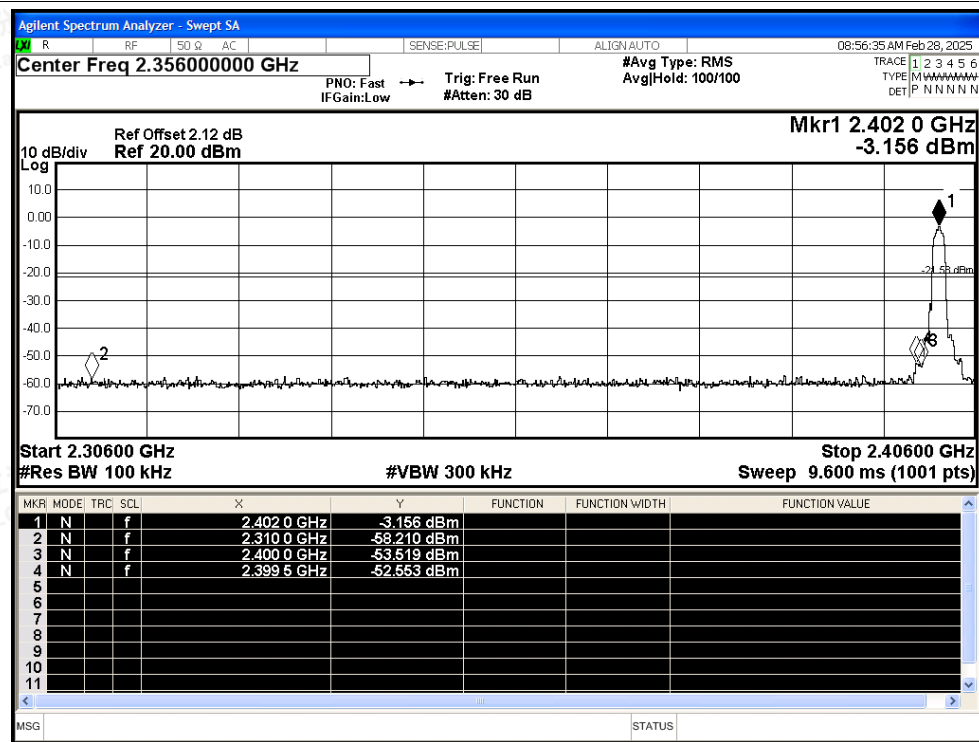
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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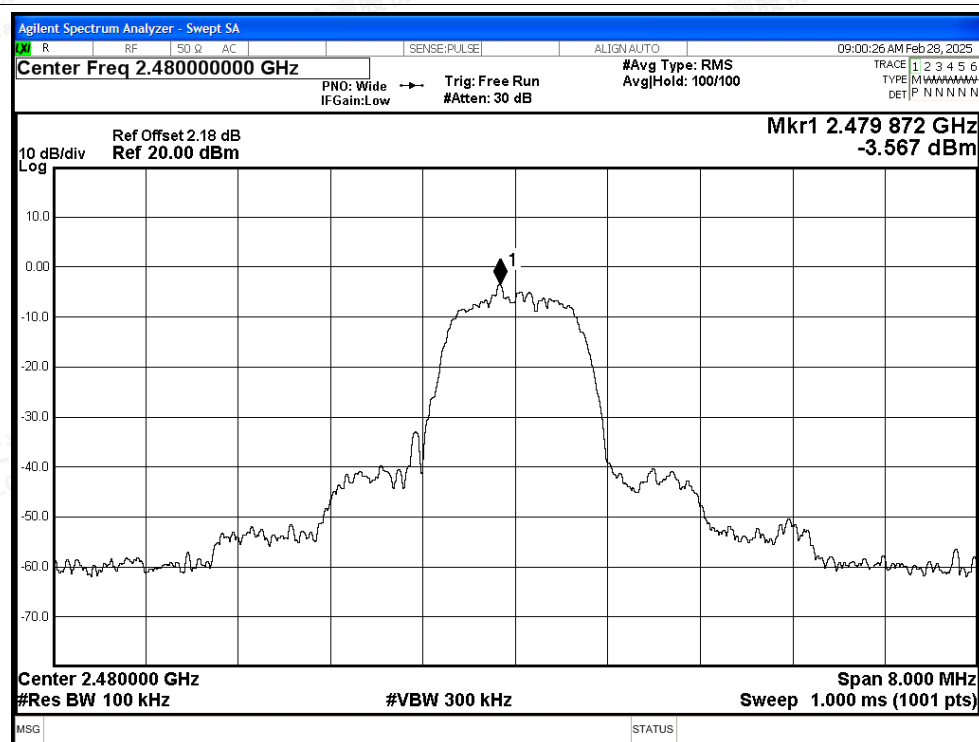
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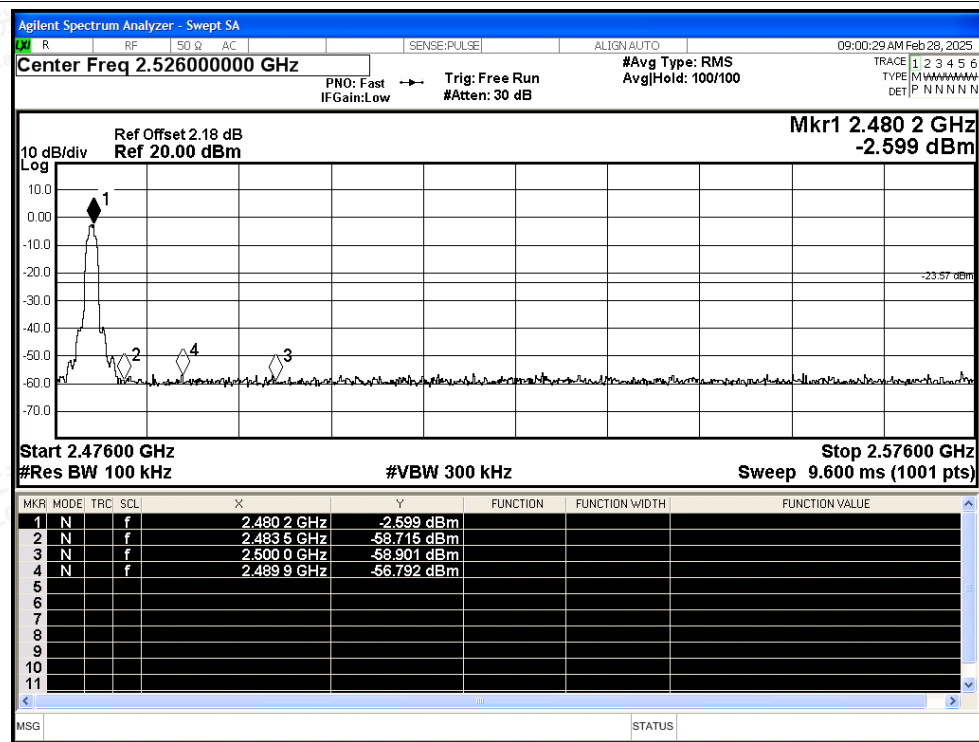
Scan code to check authenticity



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



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



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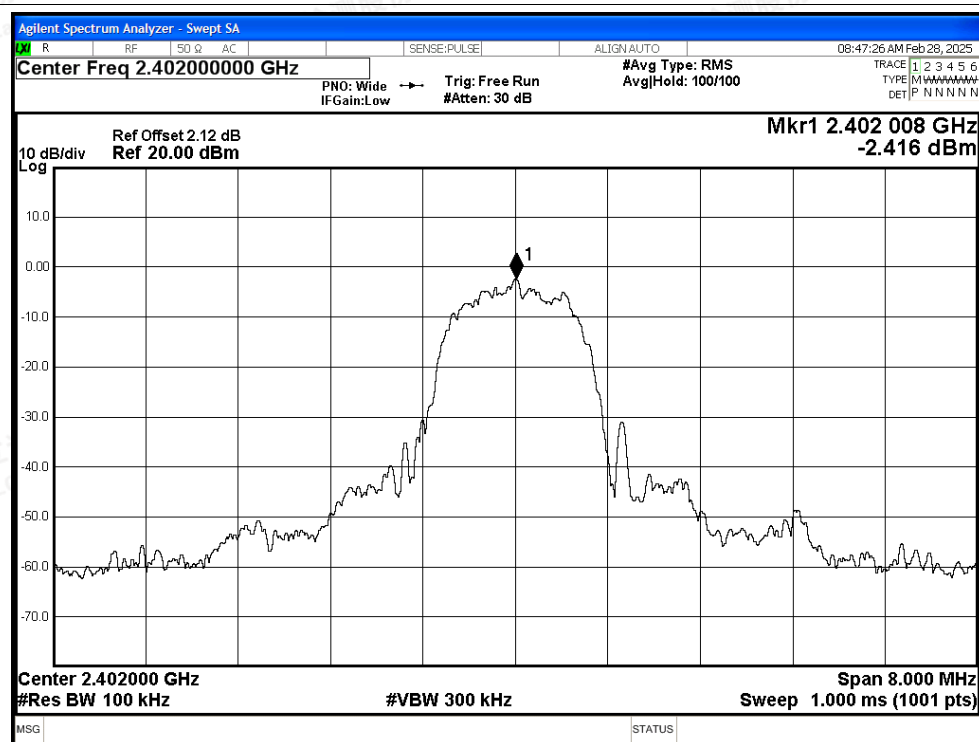
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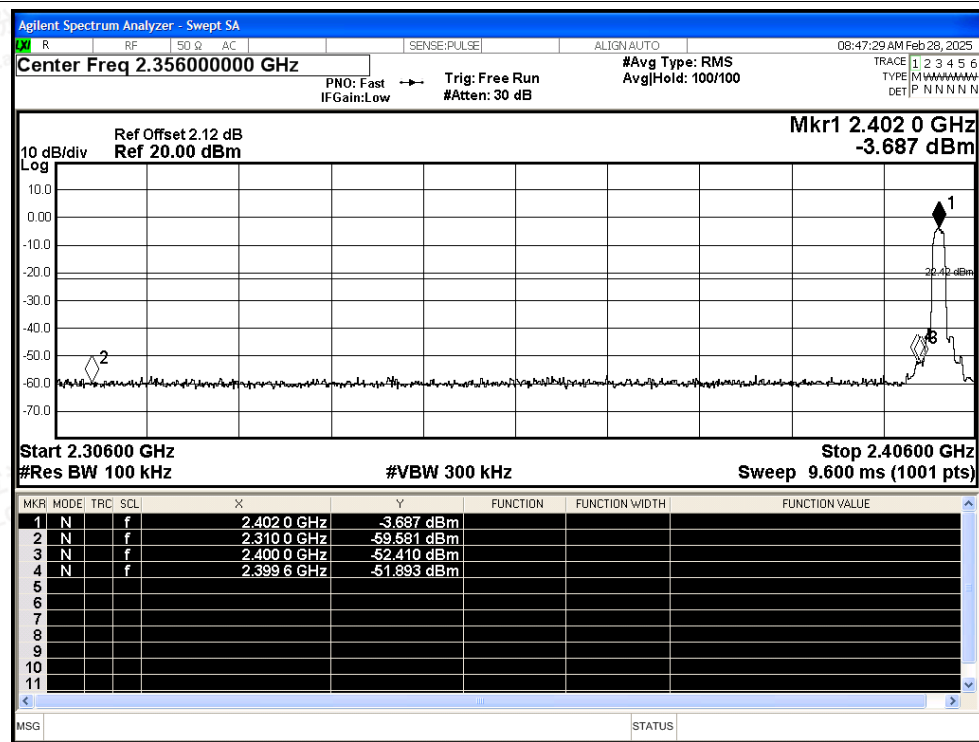
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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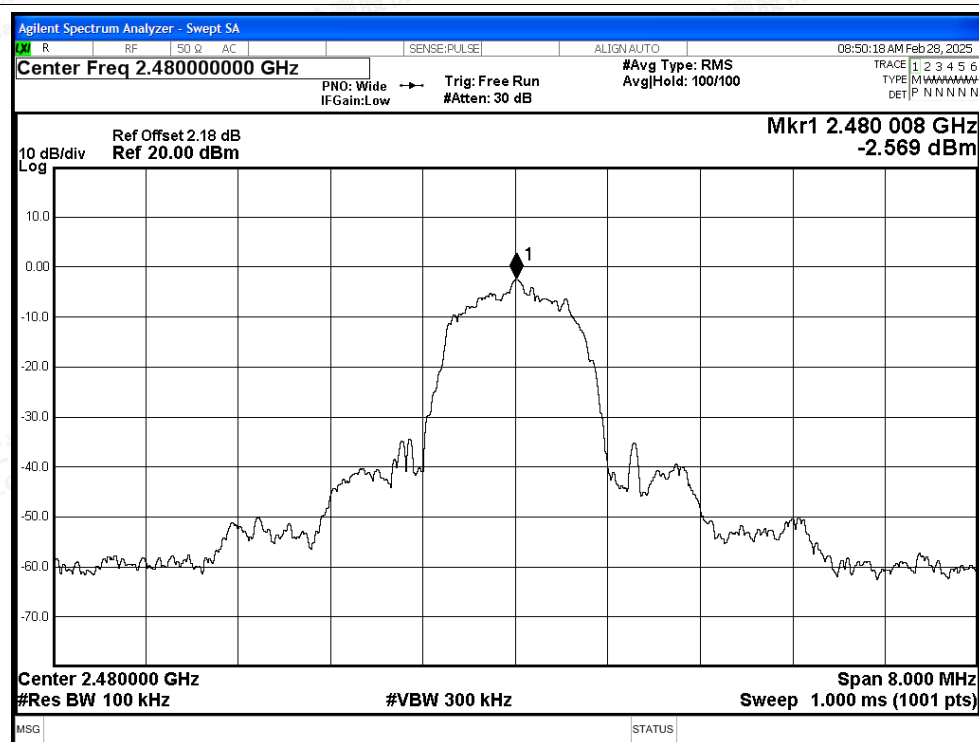
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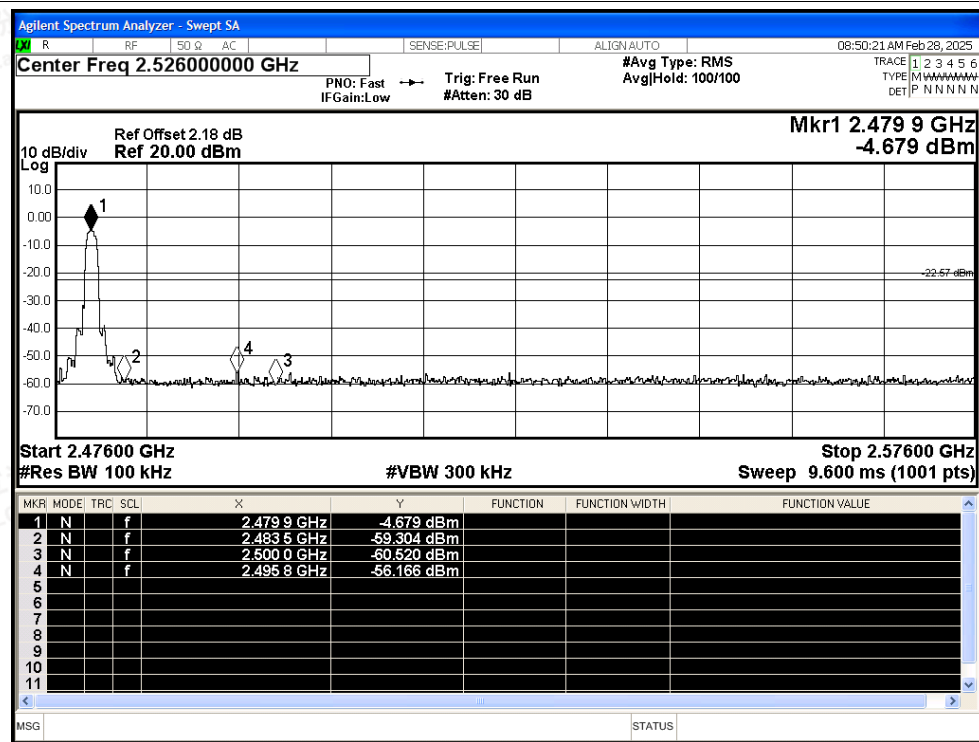
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



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(Hopping)

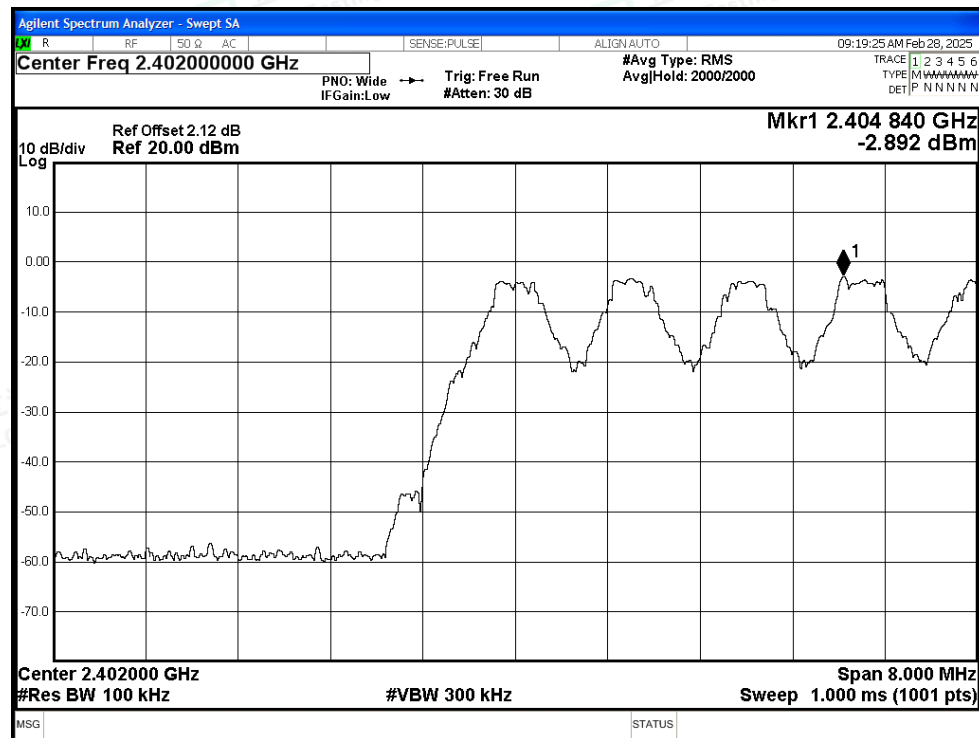
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.21	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-52.79	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-51.34	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.46	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.96	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.34	-20	Pass



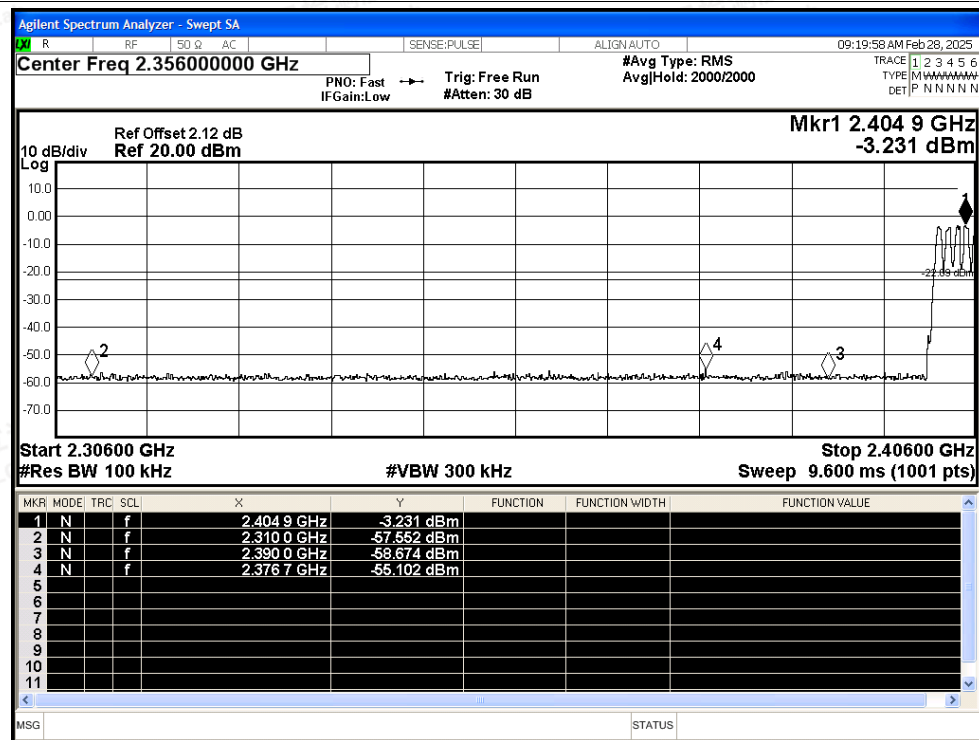


Test Graphs

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



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

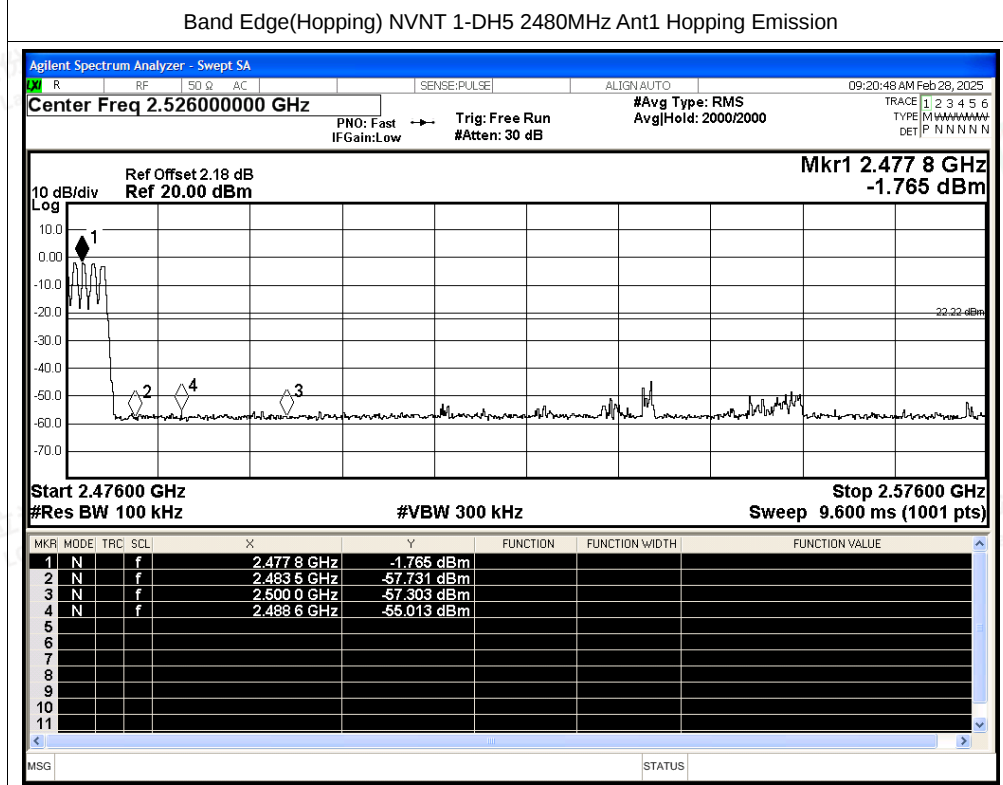
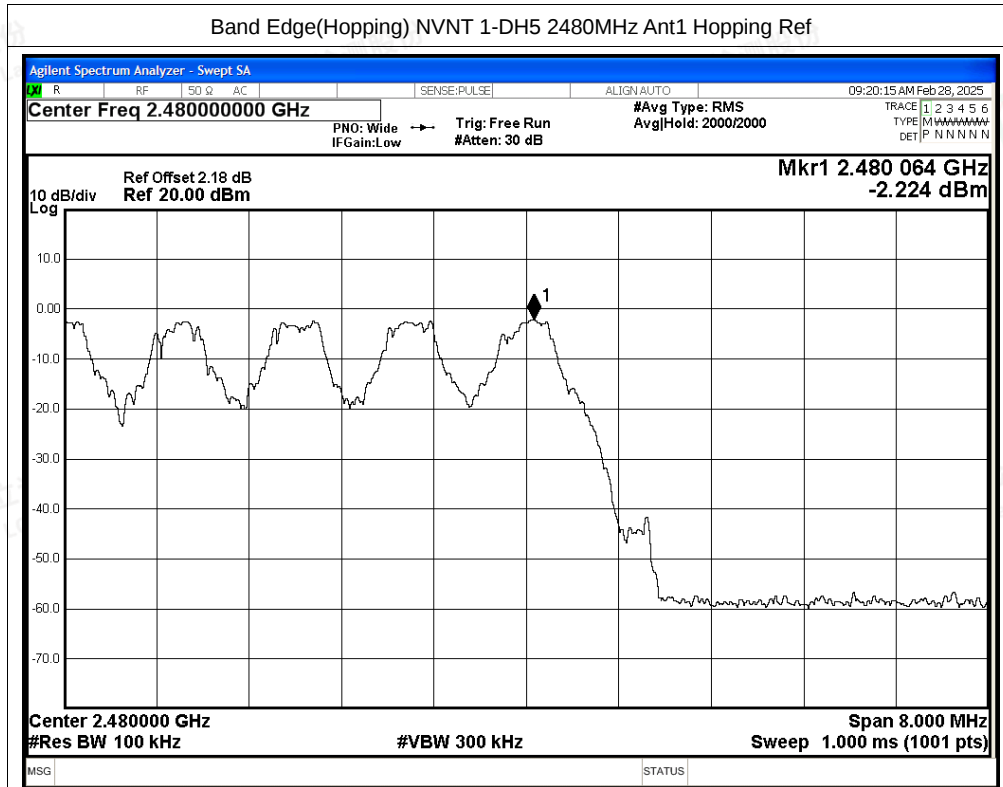


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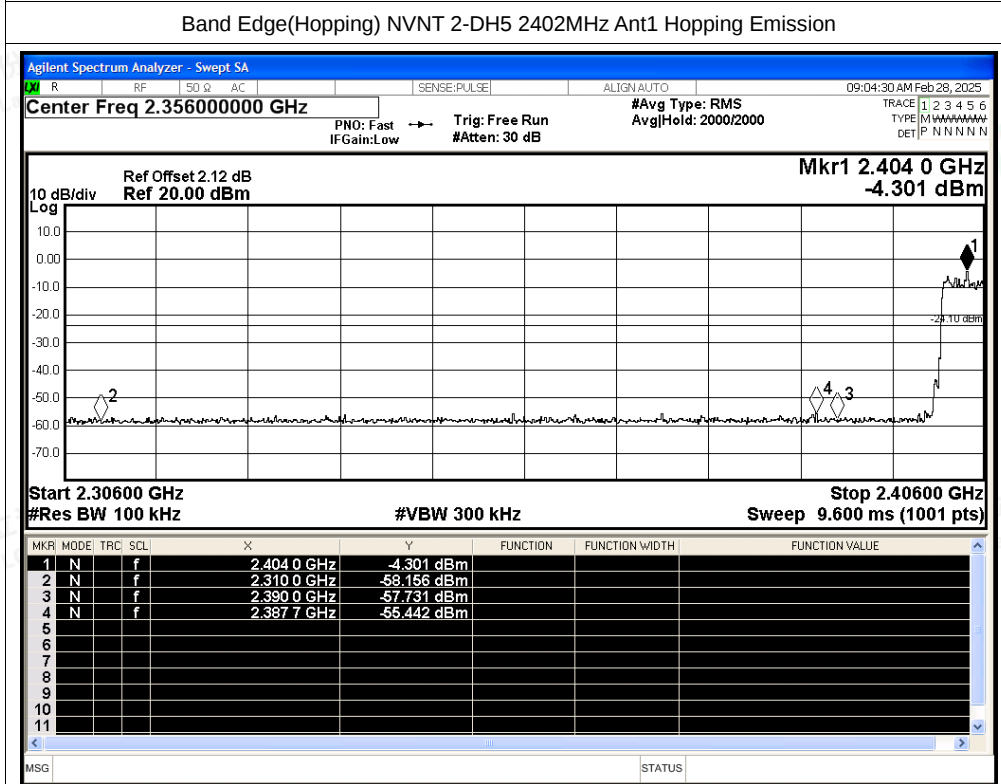
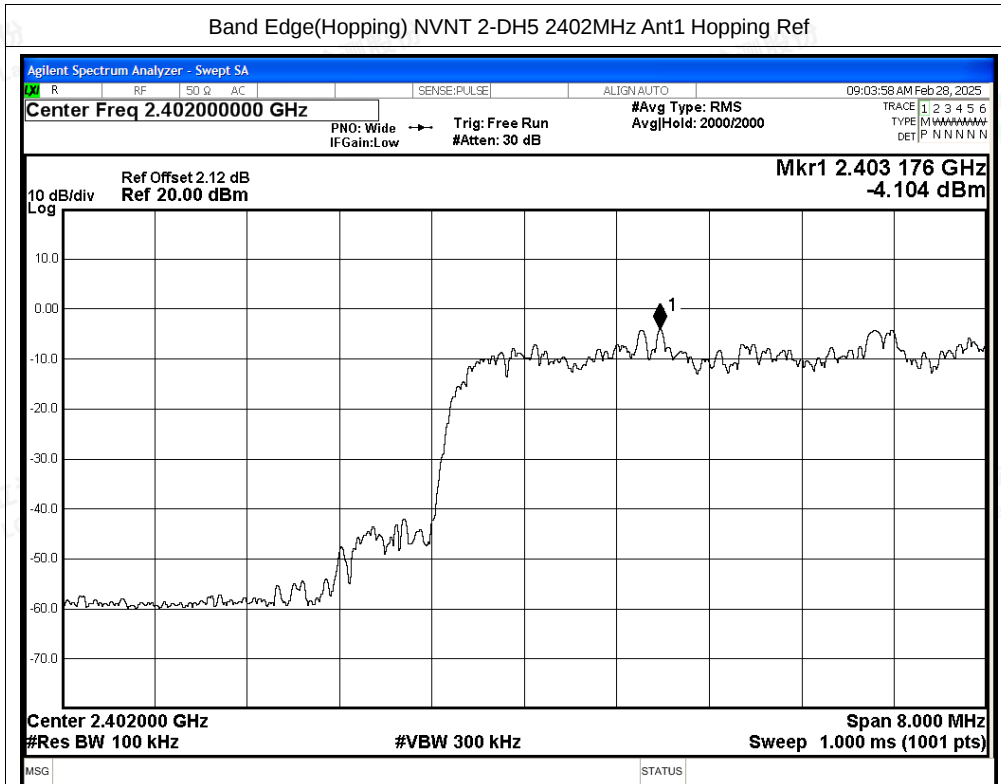


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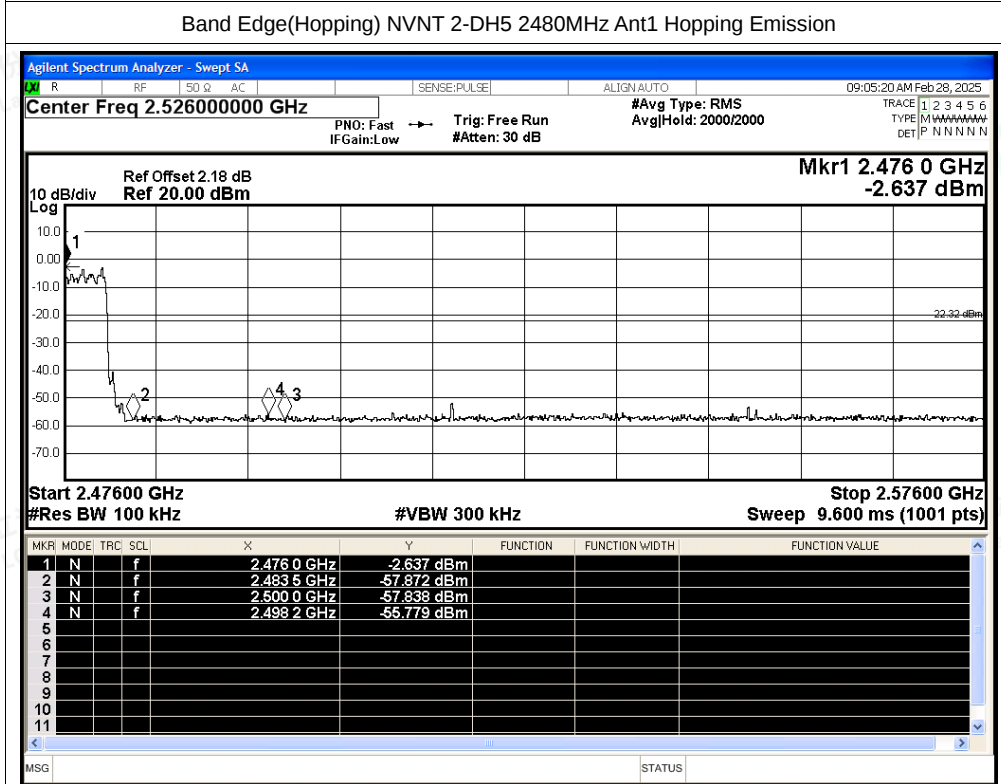
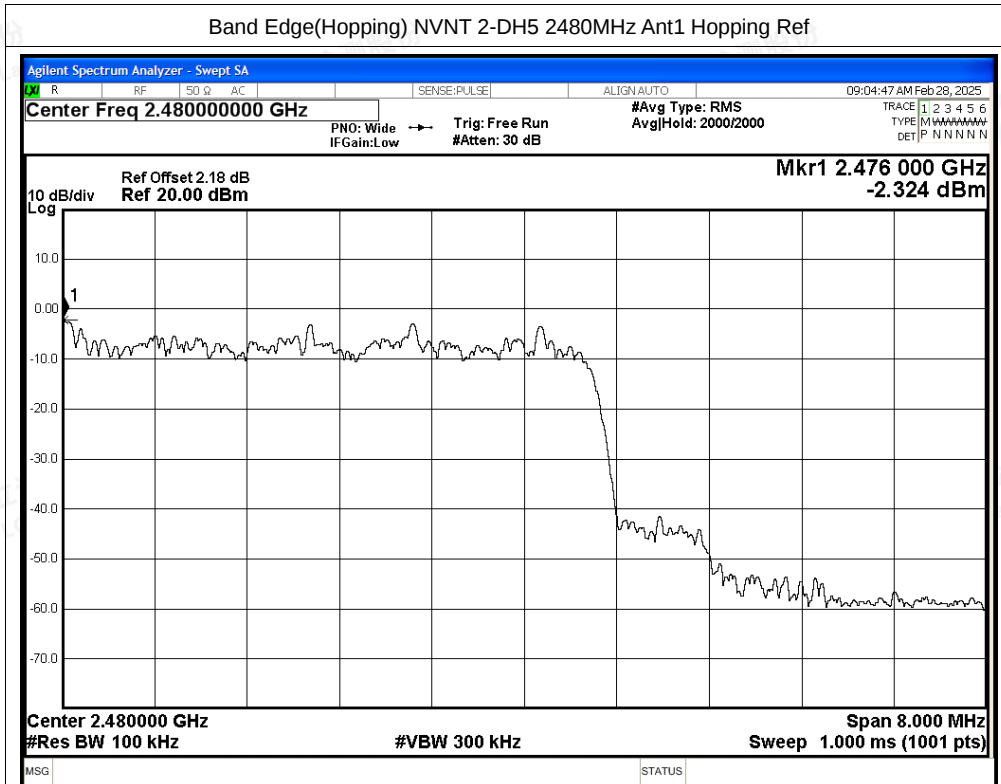


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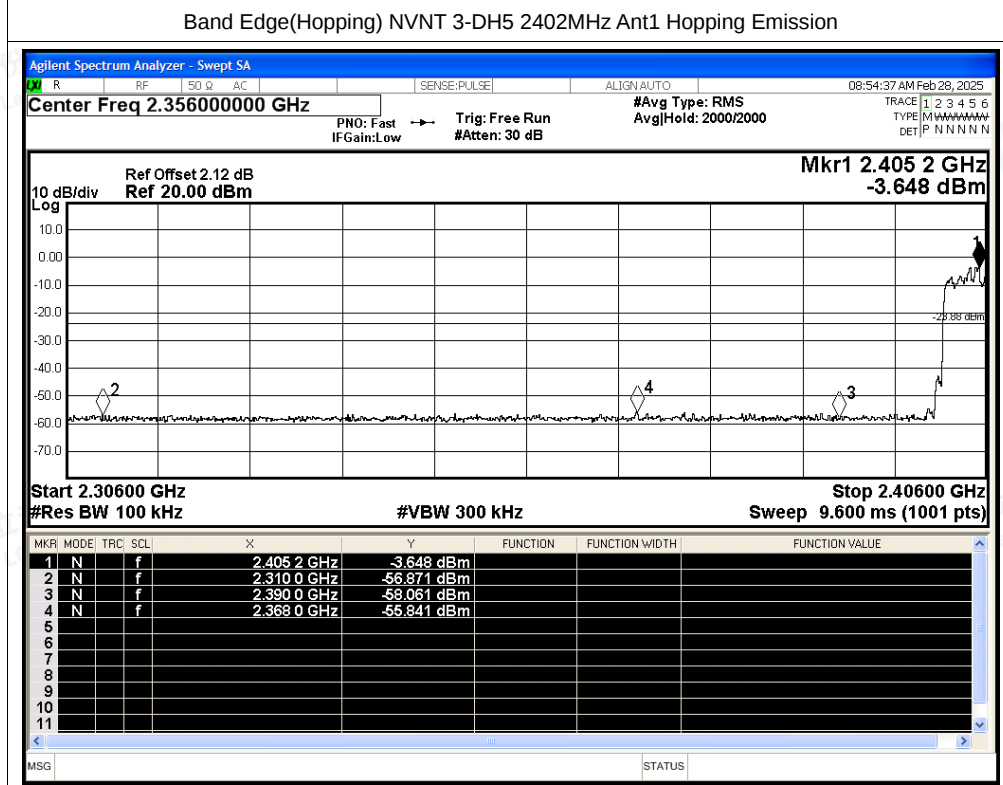
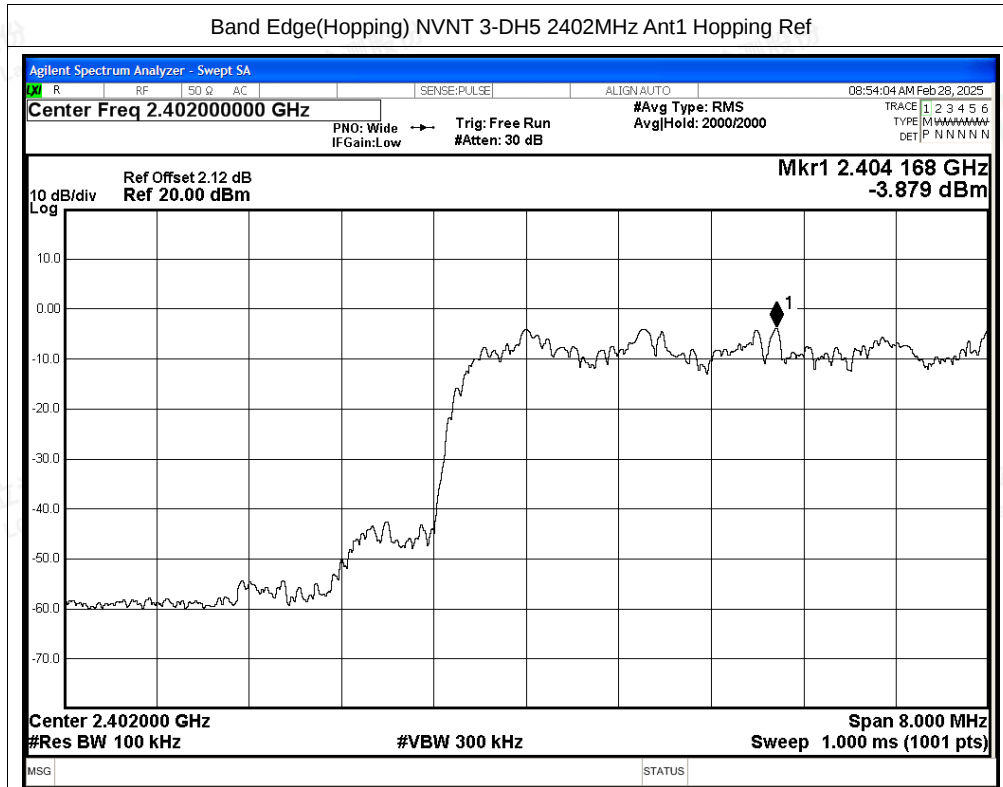


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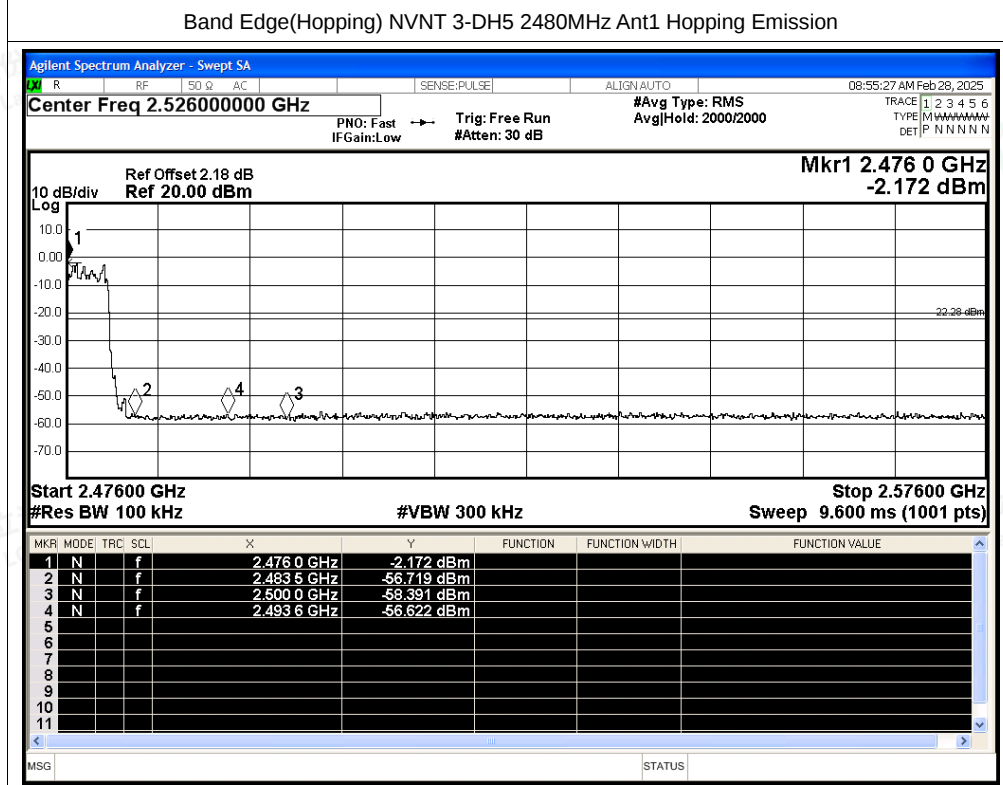
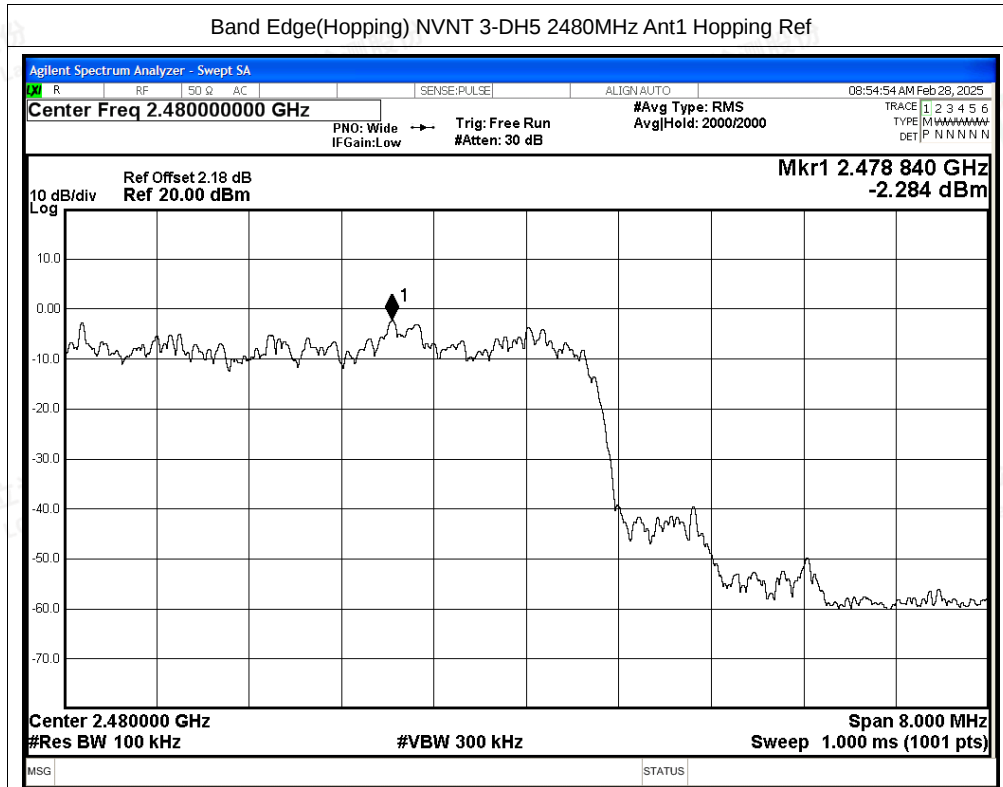


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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-51.69	-20	Pass
NVNT	1-DH5	2441	Ant1	-53.29	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.01	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.99	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.33	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.42	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.14	-20	Pass
NVNT	3-DH5	2441	Ant1	-44.25	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.1	-20	Pass



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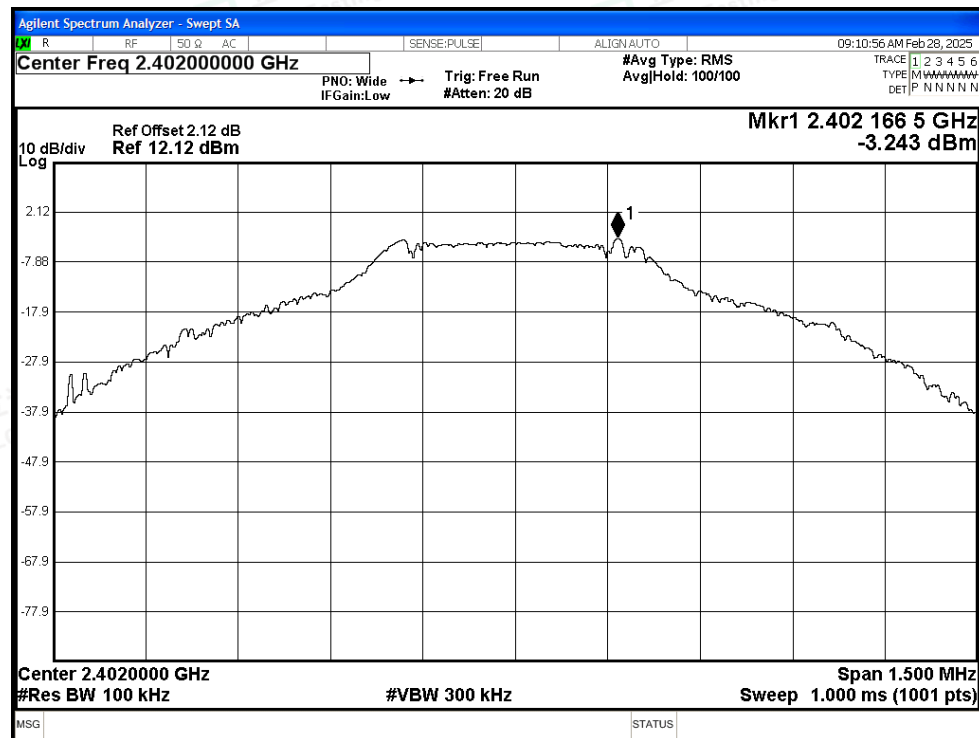
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

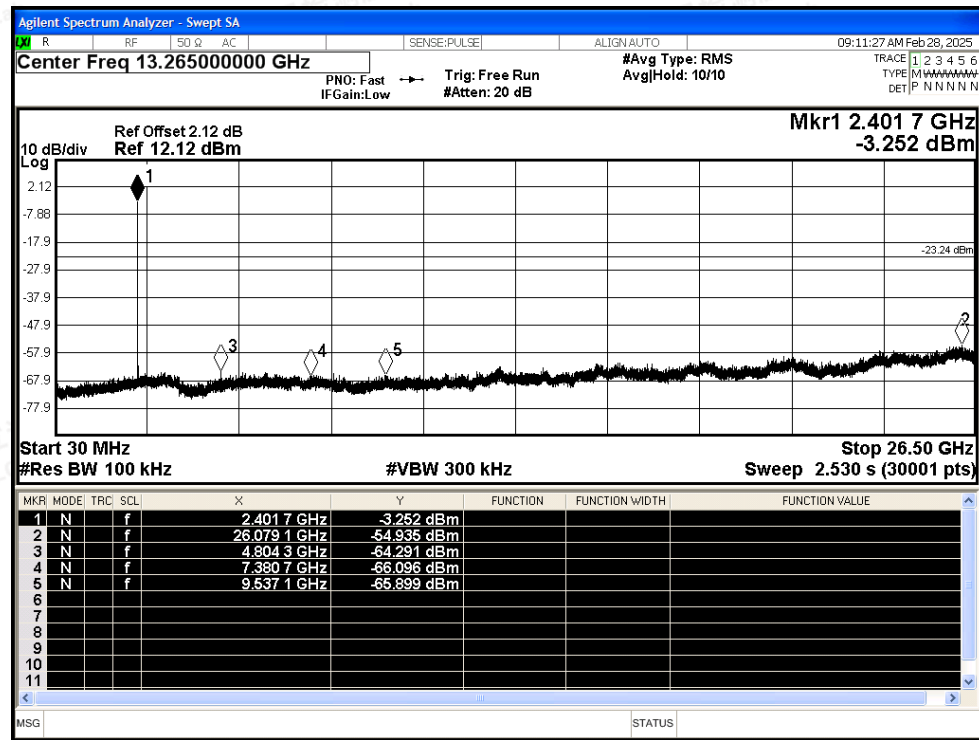


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

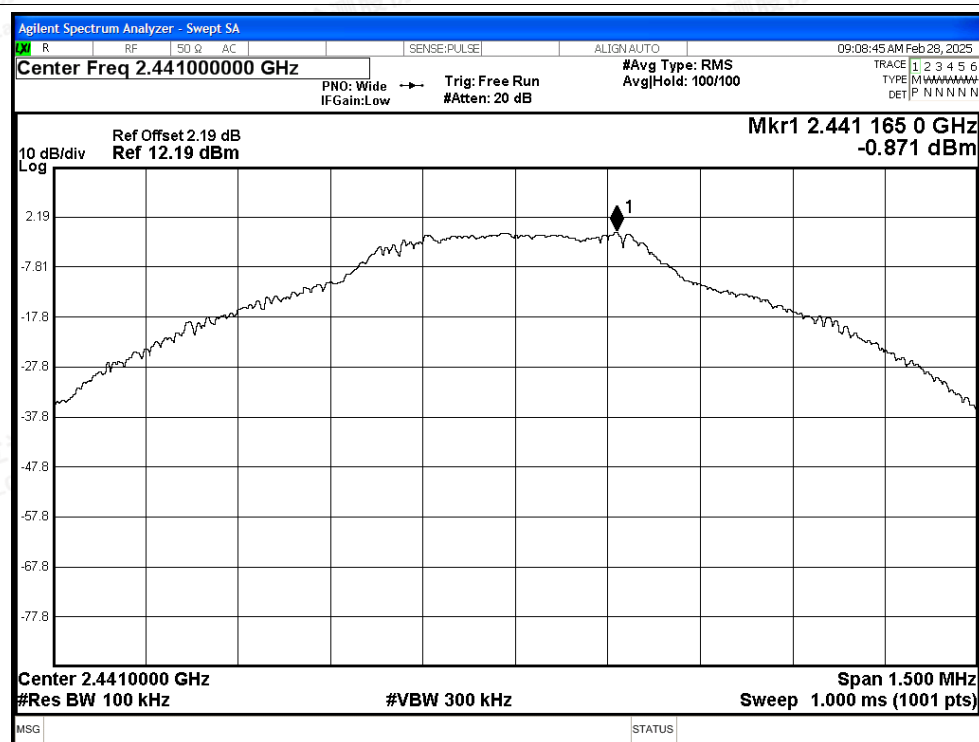
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

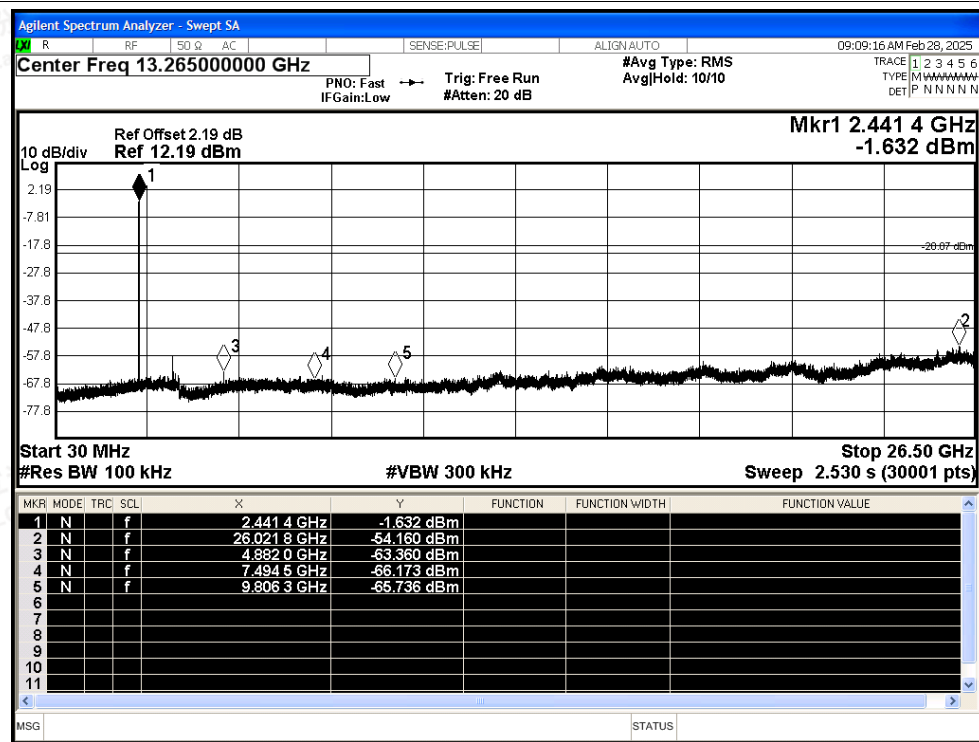
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

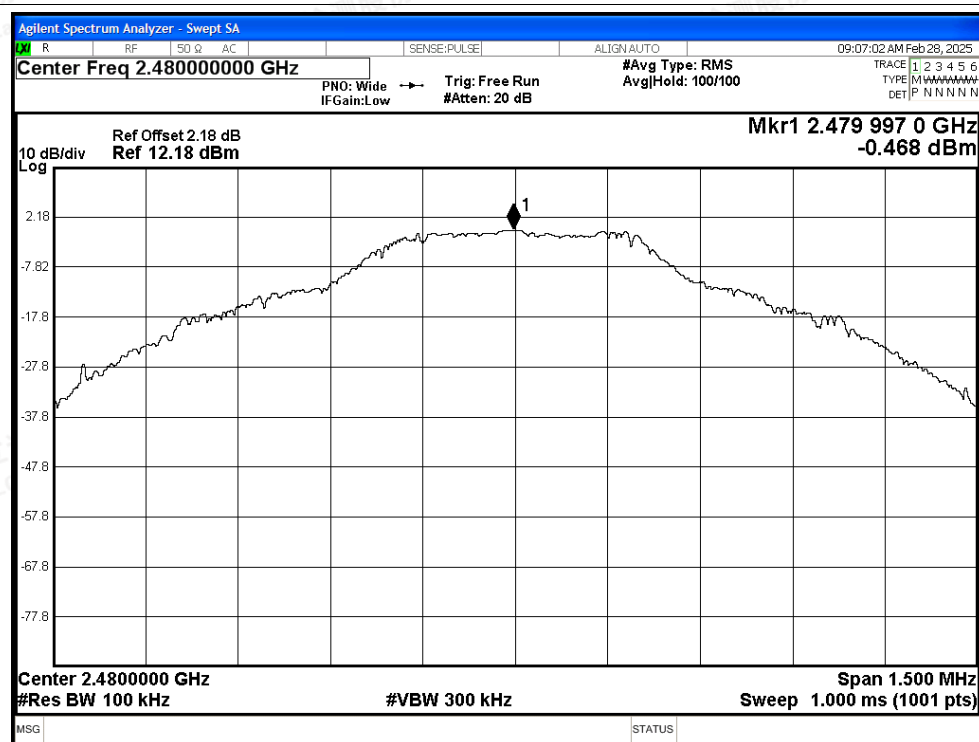
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

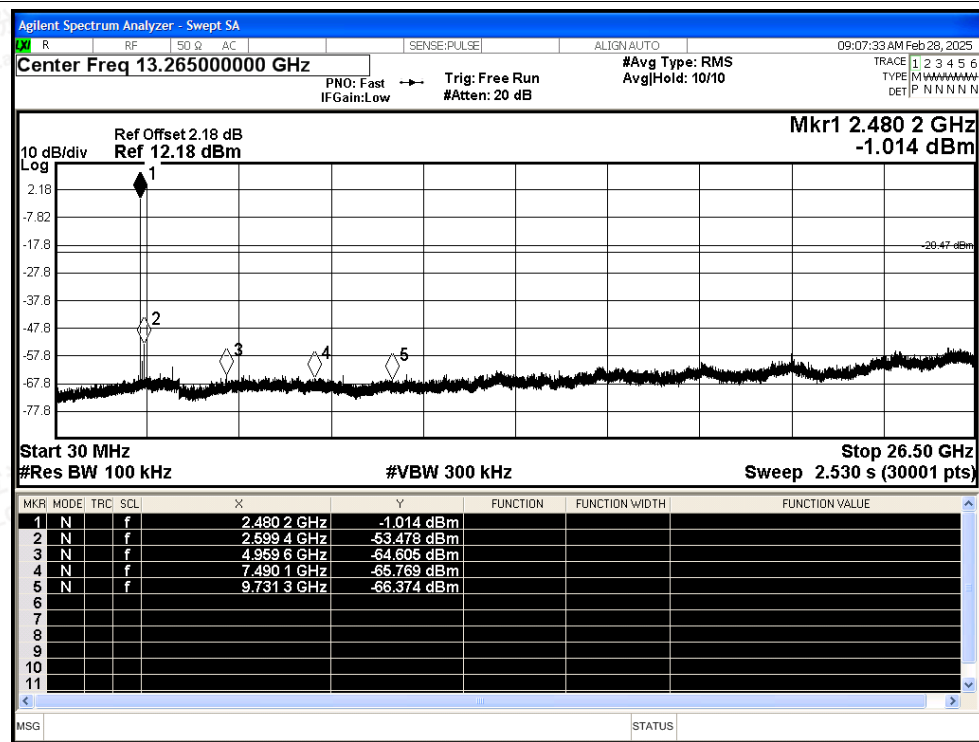
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

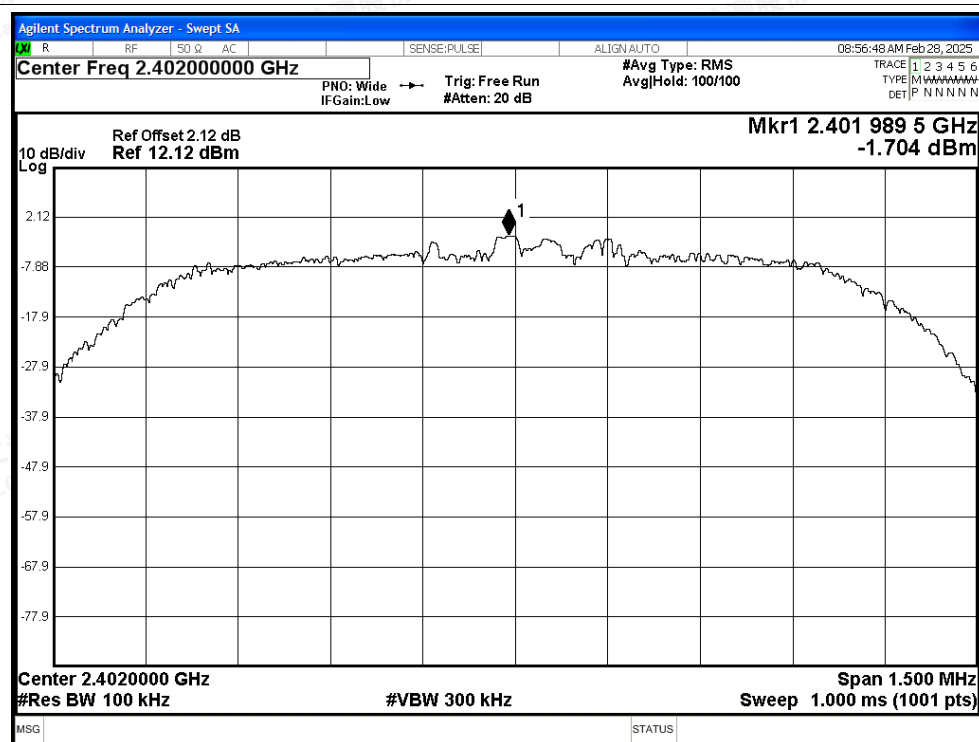
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

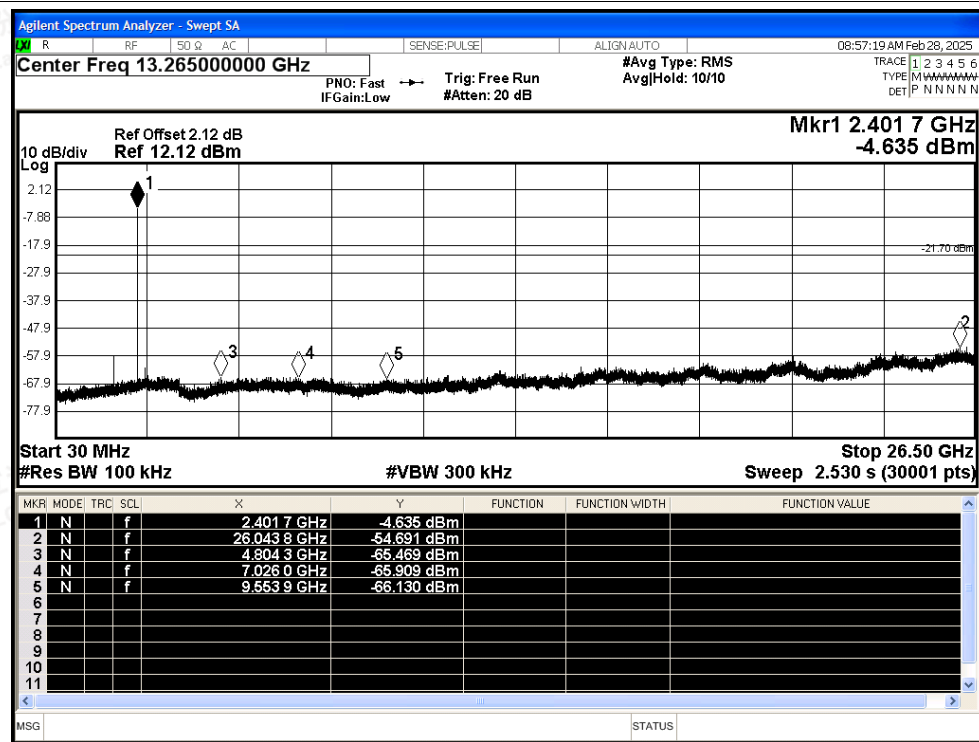
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



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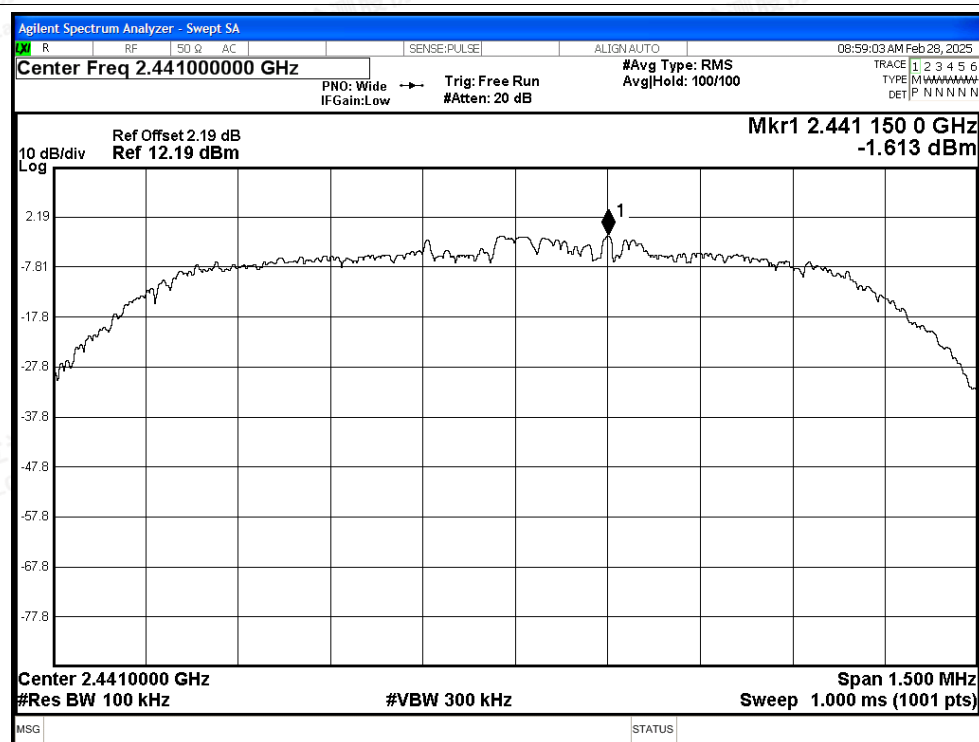
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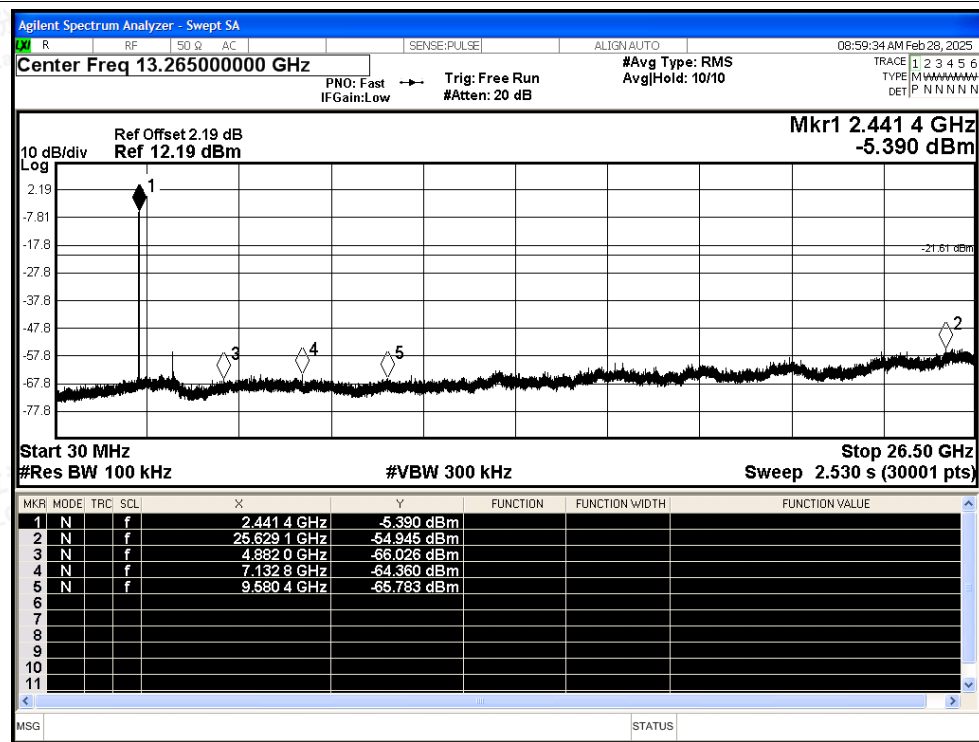
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

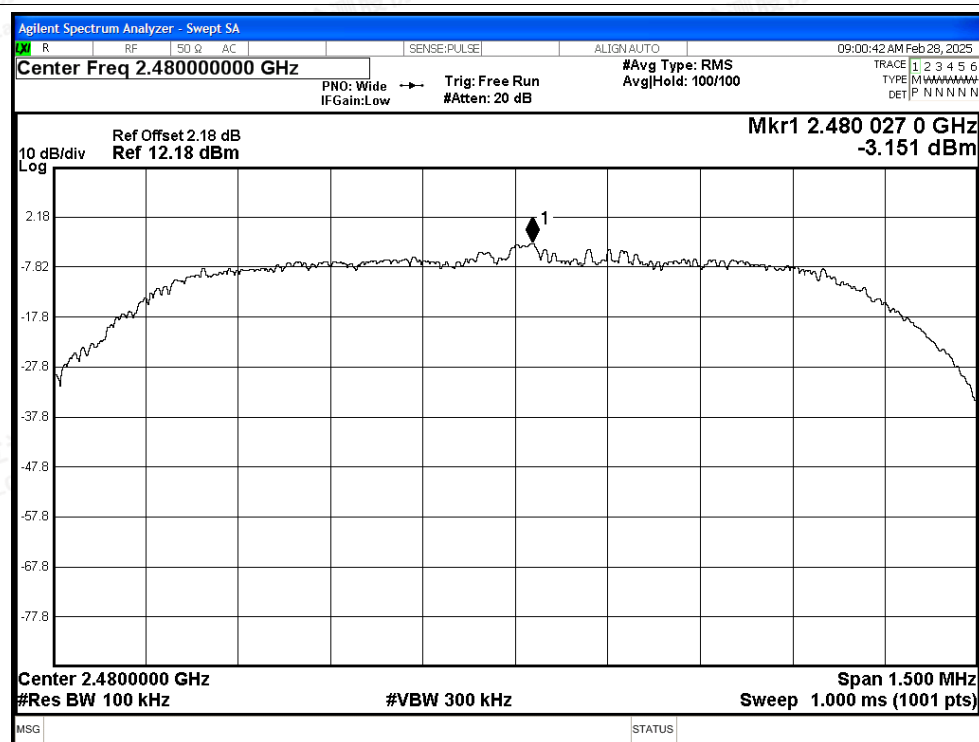
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

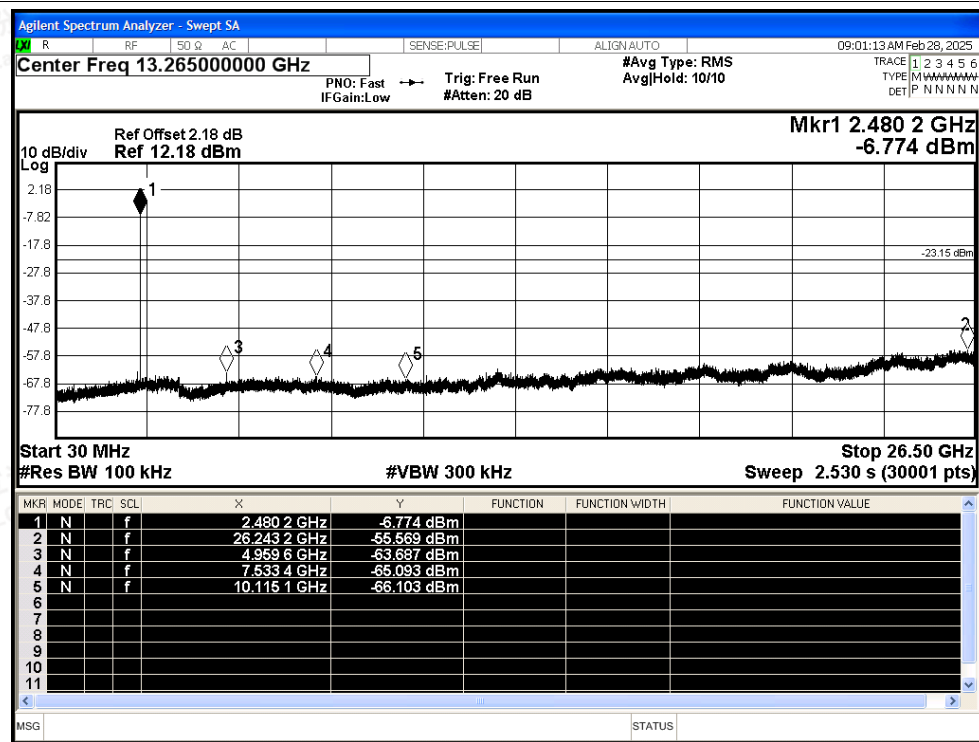
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

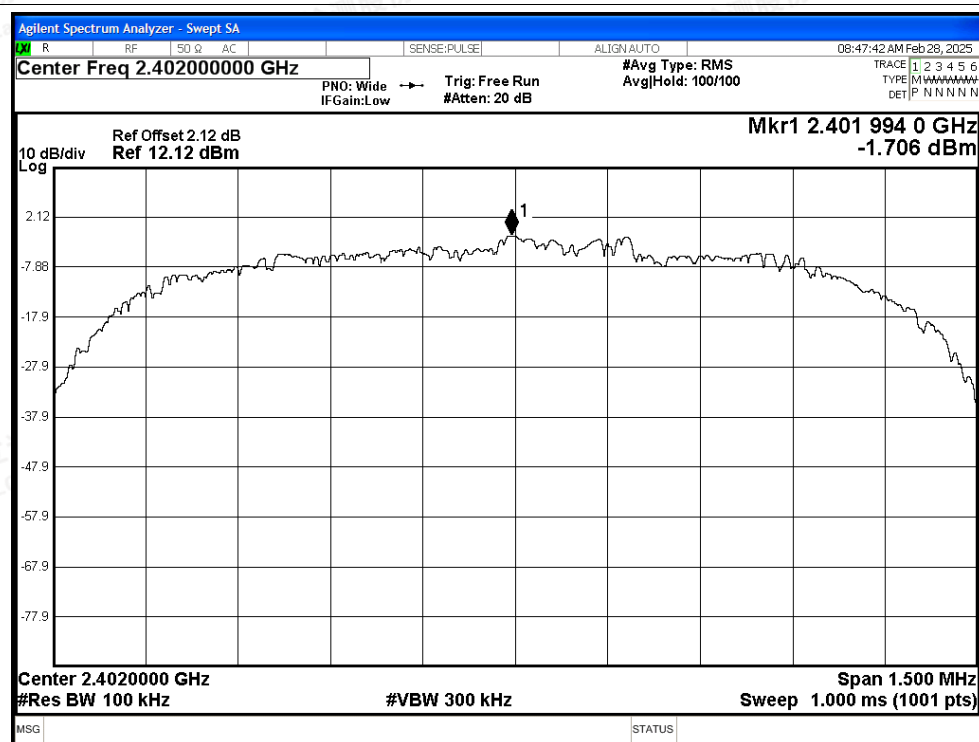
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

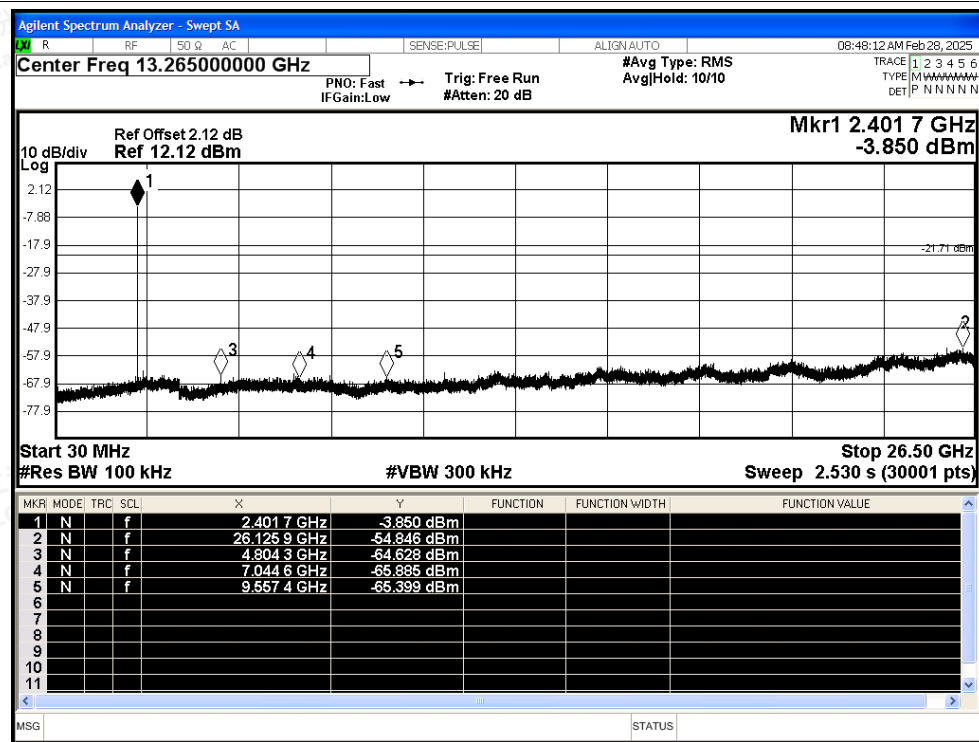
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

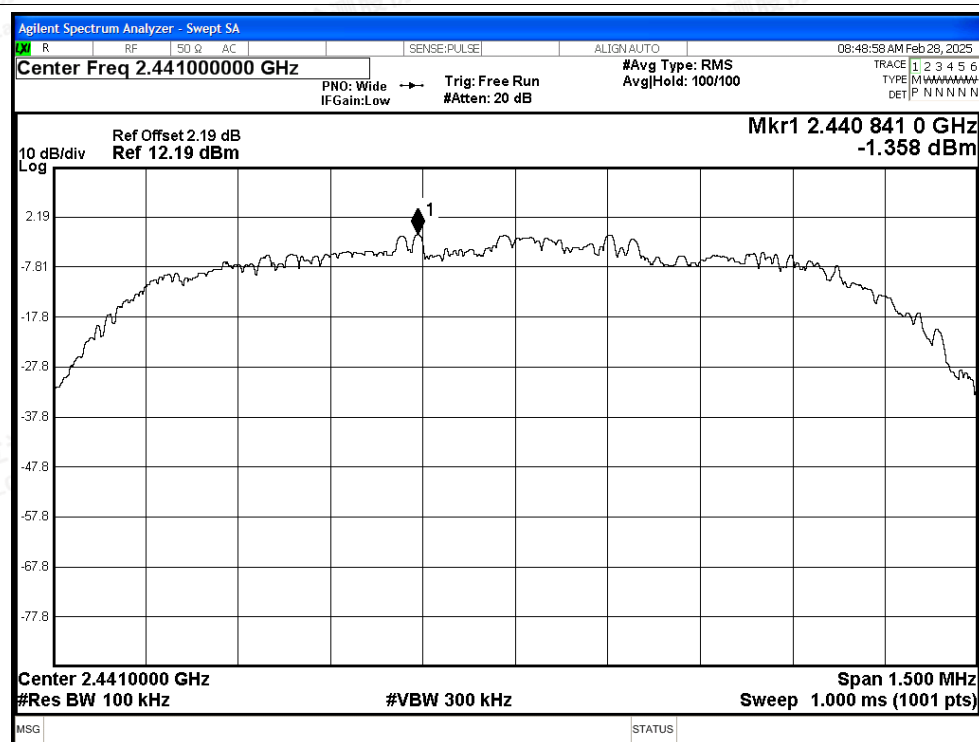
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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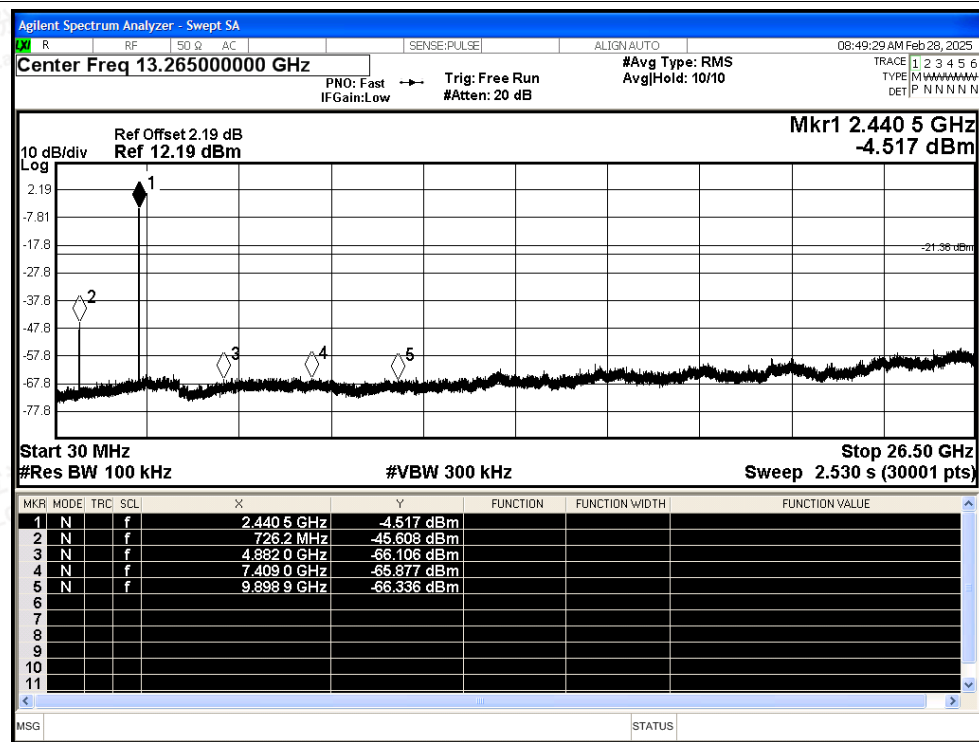
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



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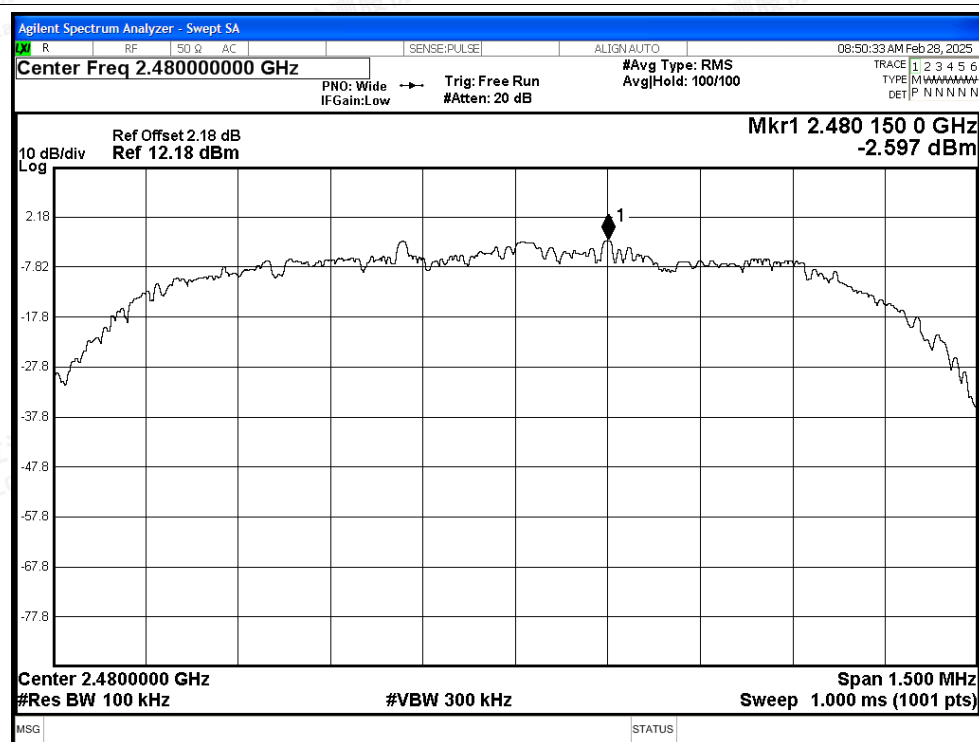
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

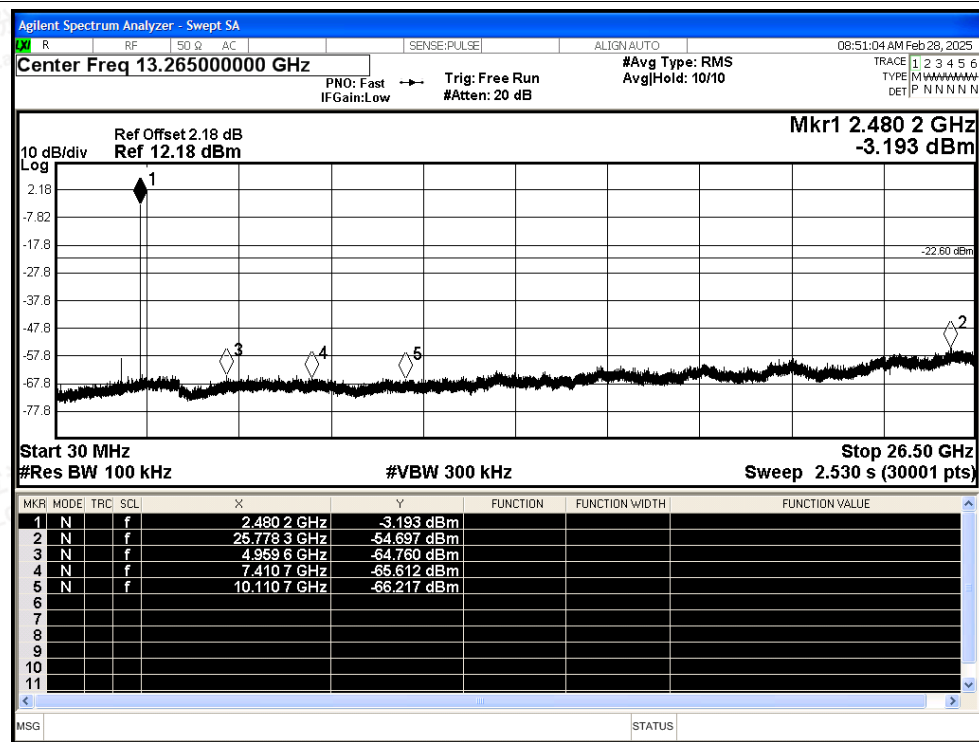
Scan code to check authenticity



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	77.6	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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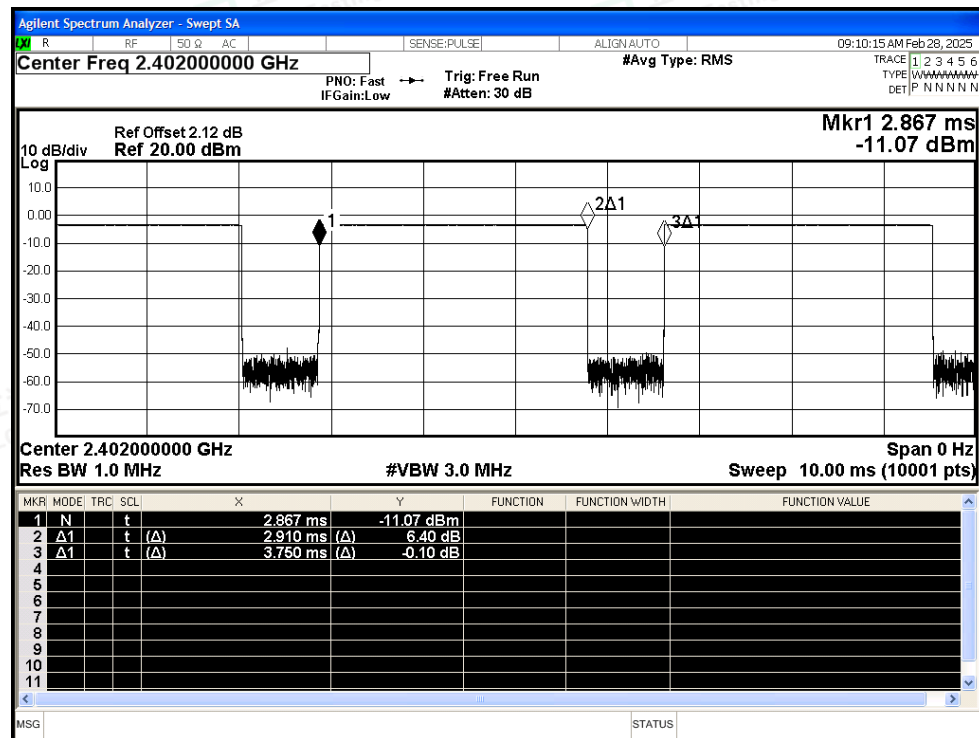
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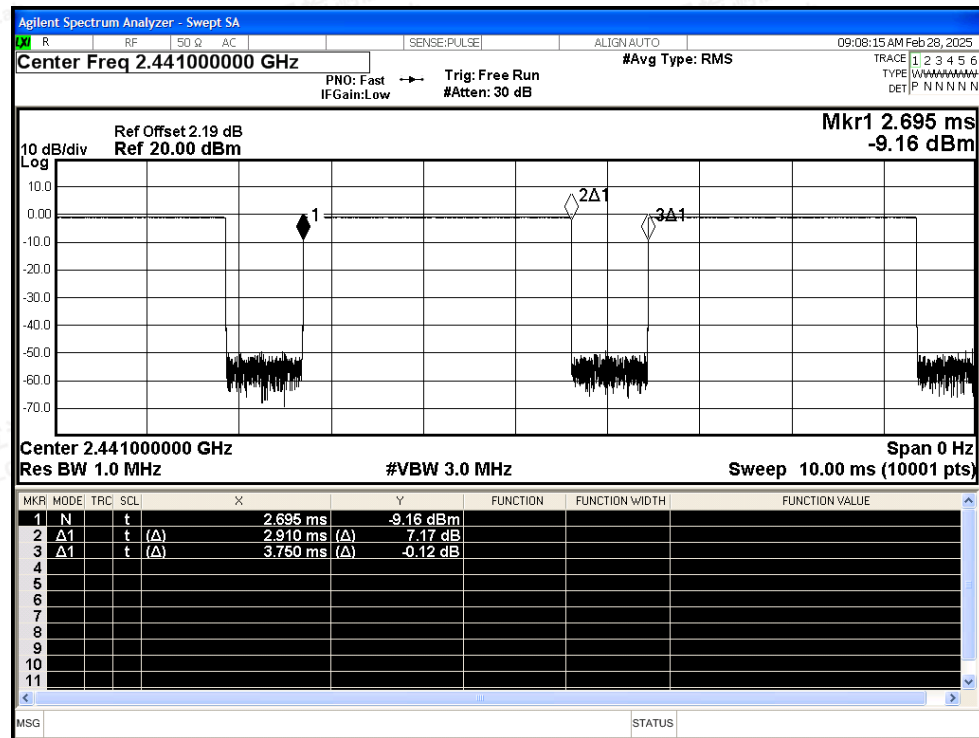


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



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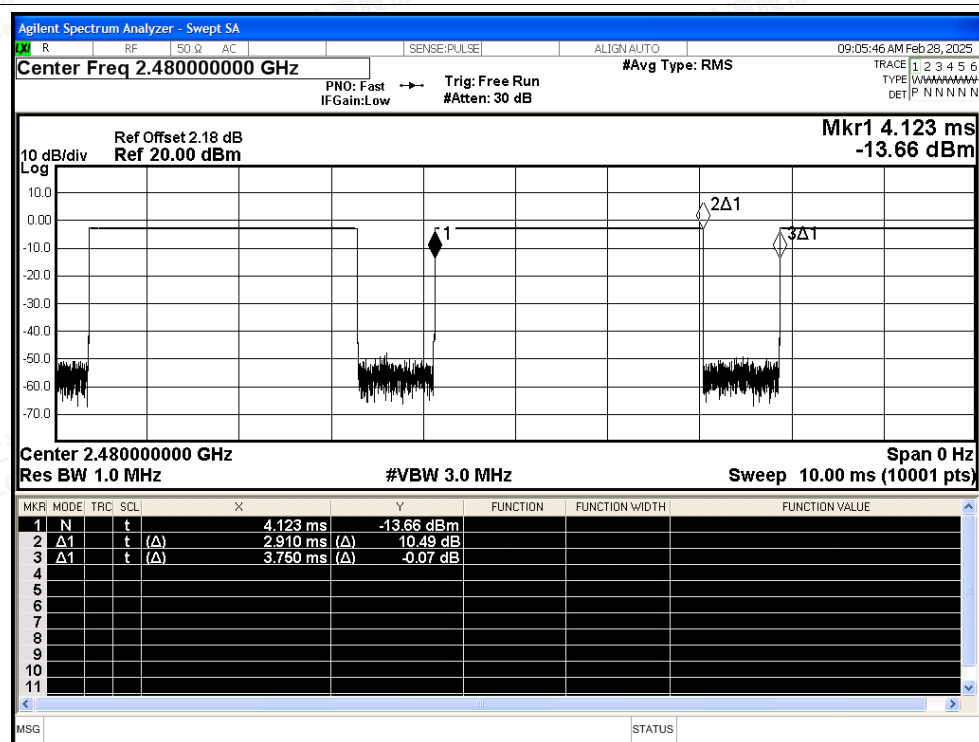
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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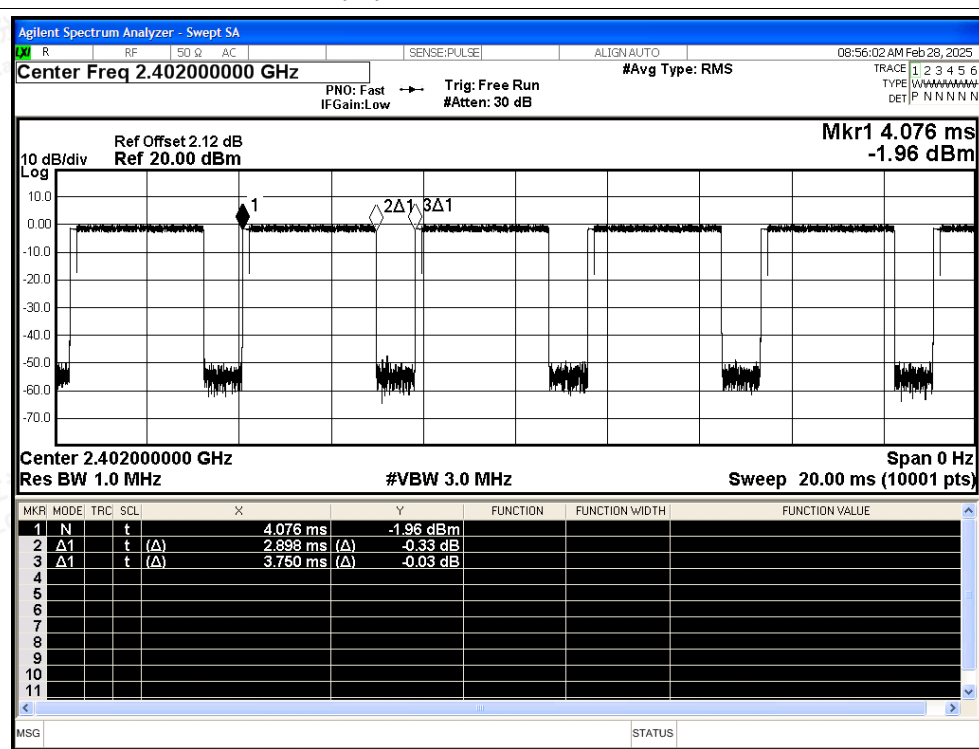
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

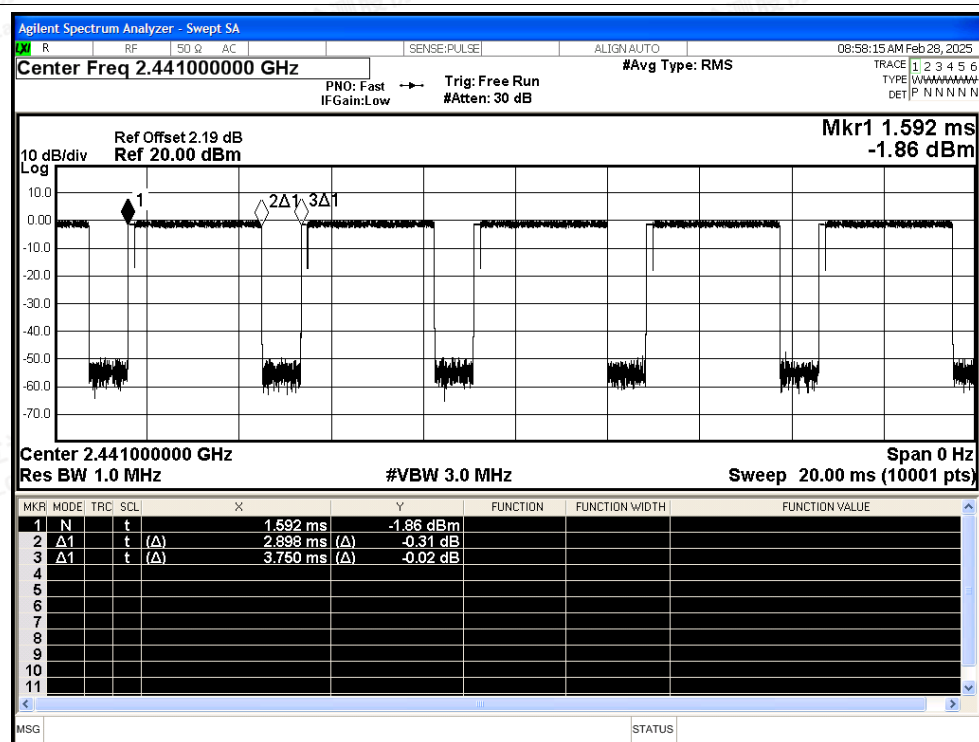
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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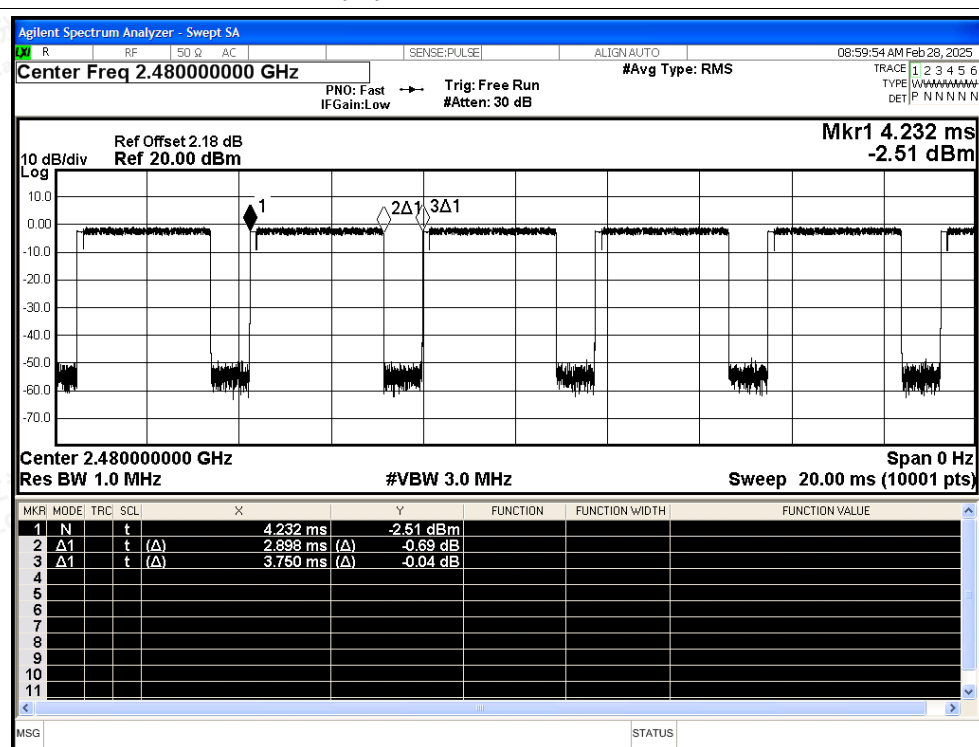
Scan code to check authenticity



Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

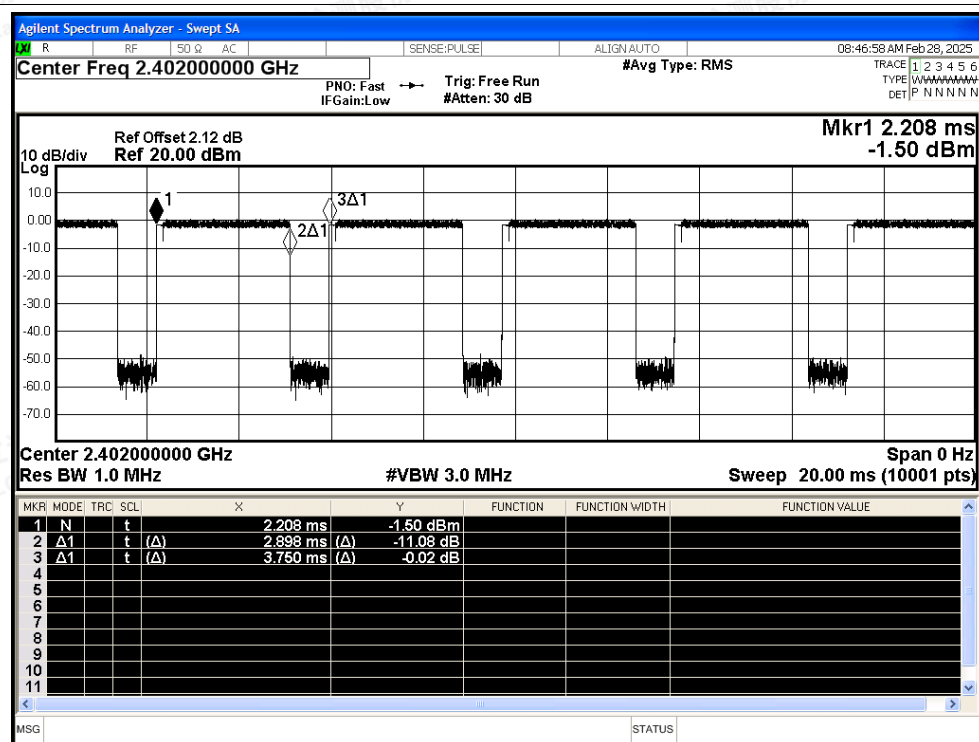
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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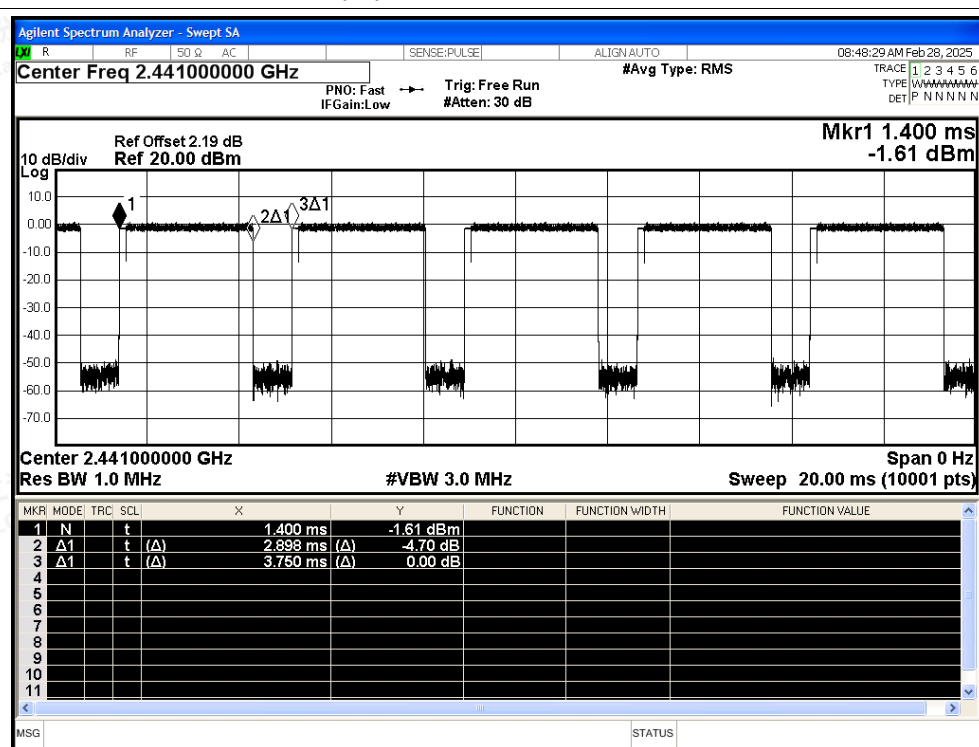
Scan code to check authenticity



Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

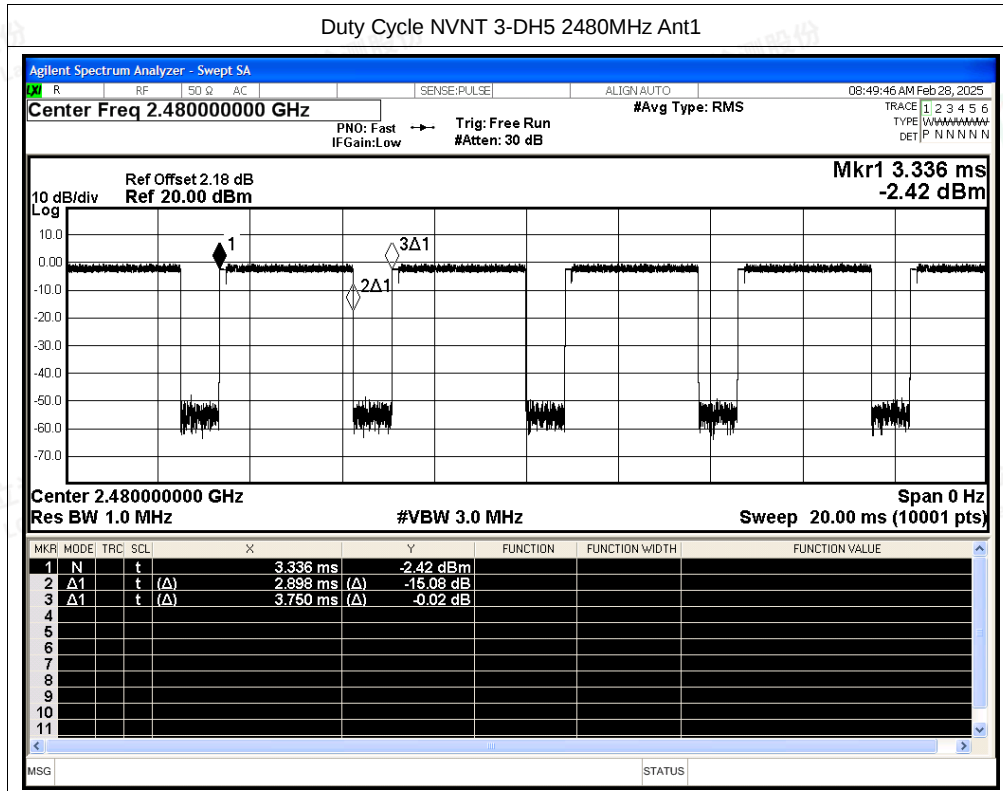


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A.9 Restrict Band

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	-51.35	2.78	-	45.99	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.48	2.78	1.1	39.96	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2369.52	-46.98	2.78	-	50.36	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.688	-57.39	2.78	1.1	41.05	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.72	2.78	-	47.62	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.67	2.78	1.1	40.77	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.49	2.78	-	47.85	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.99	2.78	1.1	40.45	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.952	-42.72	2.78	-	54.62	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.704	-56.9	2.78	1.1	41.54	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.95	2.78	-	47.39	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.74	2.78	1.1	40.7	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.11	2.78	-	46.23	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.78	2.78	1.12	39.68	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2360.688	-46.99	2.78	-	50.35	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2382.96	-57.43	2.78	1.12	41.03	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.02	2.78	-	47.32	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.06	2.78	1.12	40.4	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.34	2.78	-	48	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.78	2.78	1.12	40.68	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.264	-47.25	2.78	-	50.09	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.56	-56.92	2.78	1.12	41.54	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.6	2.78	-	48.74	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.56	2.78	1.12	40.9	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.81	2.78	-	46.53	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-59.27	2.78	1.12	39.19	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2330.544	-47.51	2.78	-	49.83	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2386.8	-57.51	2.78	1.12	40.95	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.27	2.78	-	47.07	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.29	2.78	1.12	40.17	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.58	2.78	-	48.76	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.33	2.78	1.12	41.13	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2485.288	-46.4	2.78	-	50.94	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.256	-56.94	2.78	1.12	41.52	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.44	2.78	-	46.9	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.55	2.78	1.12	40.91	Average	54	Pass



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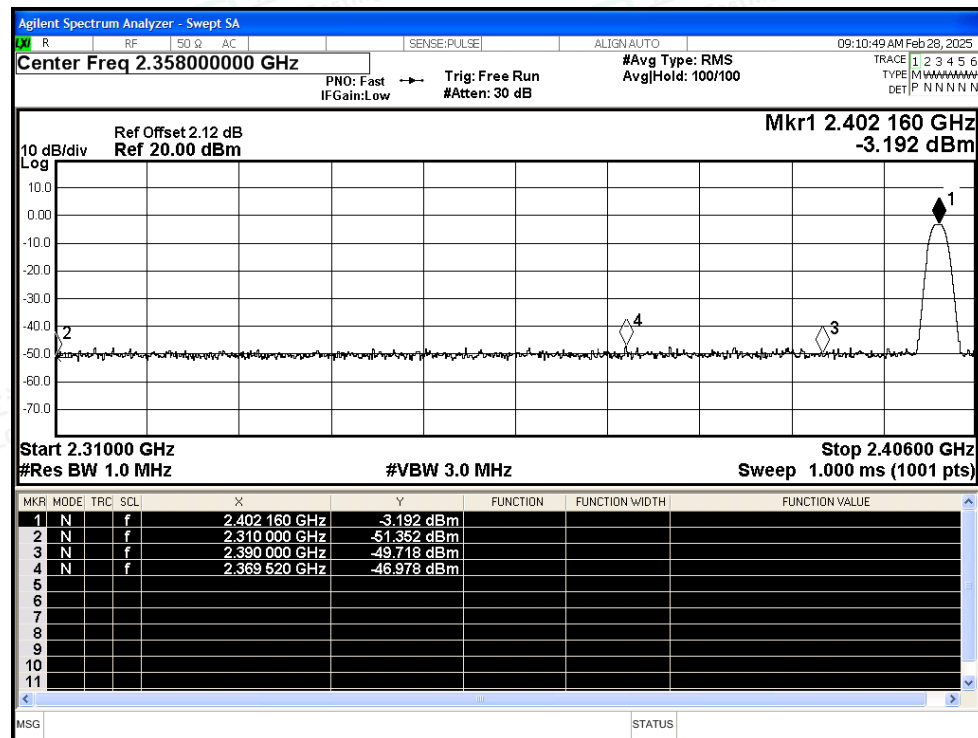
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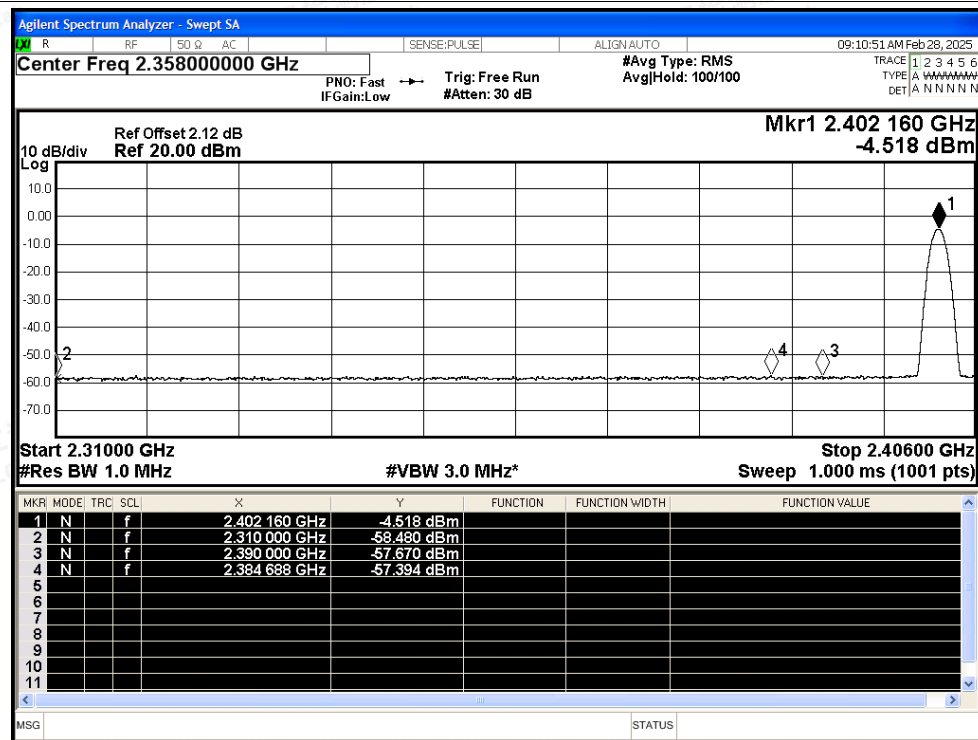


Test Graphs

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



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



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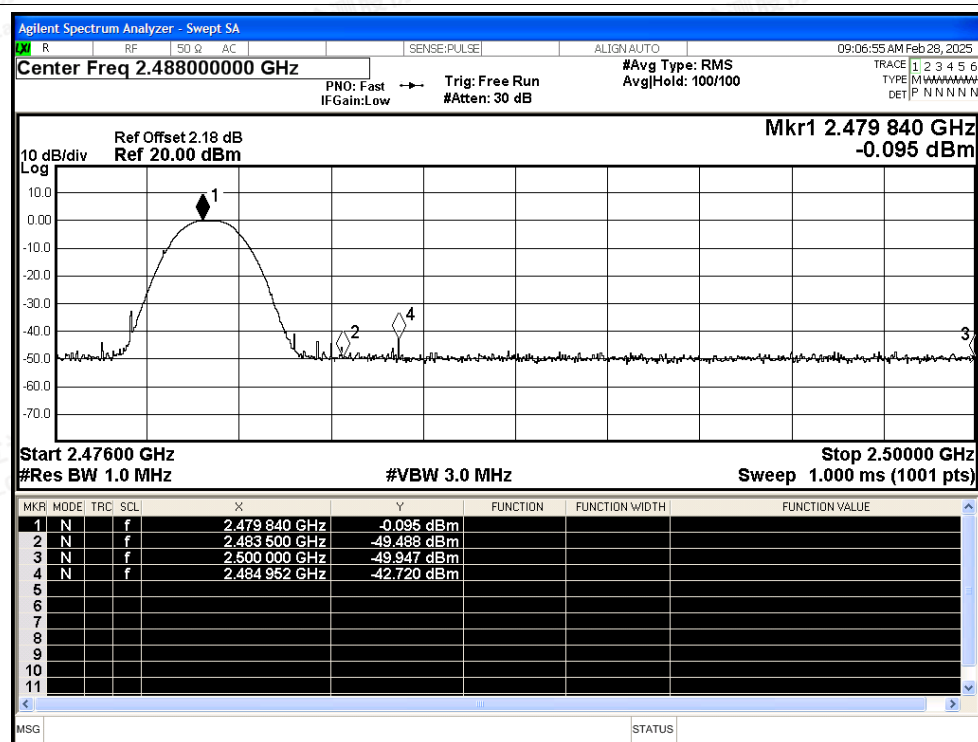
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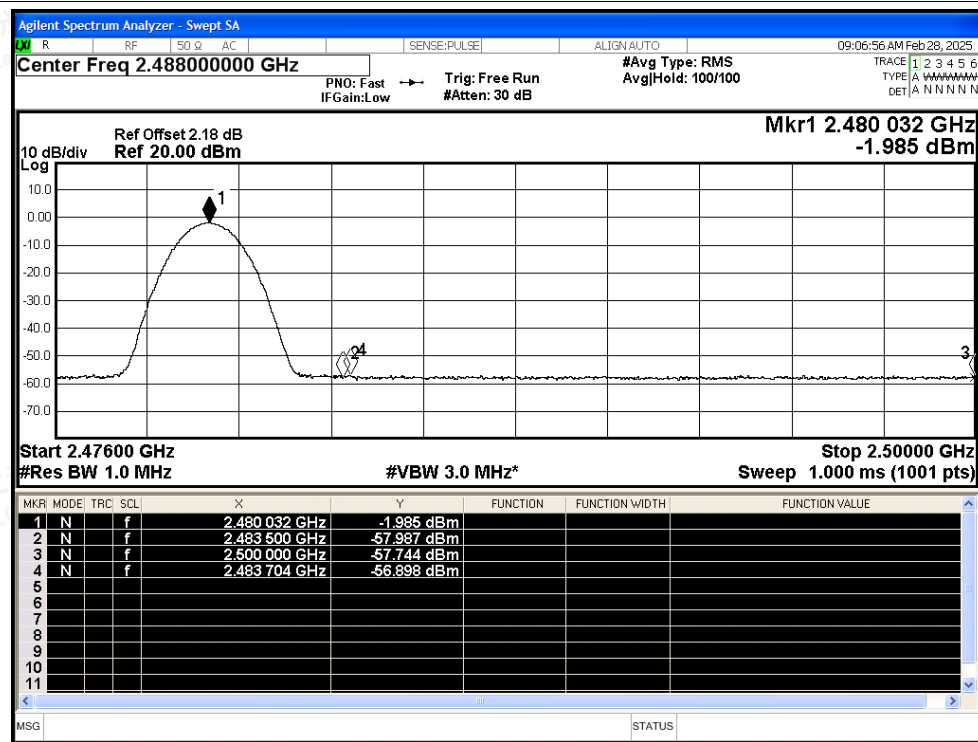
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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

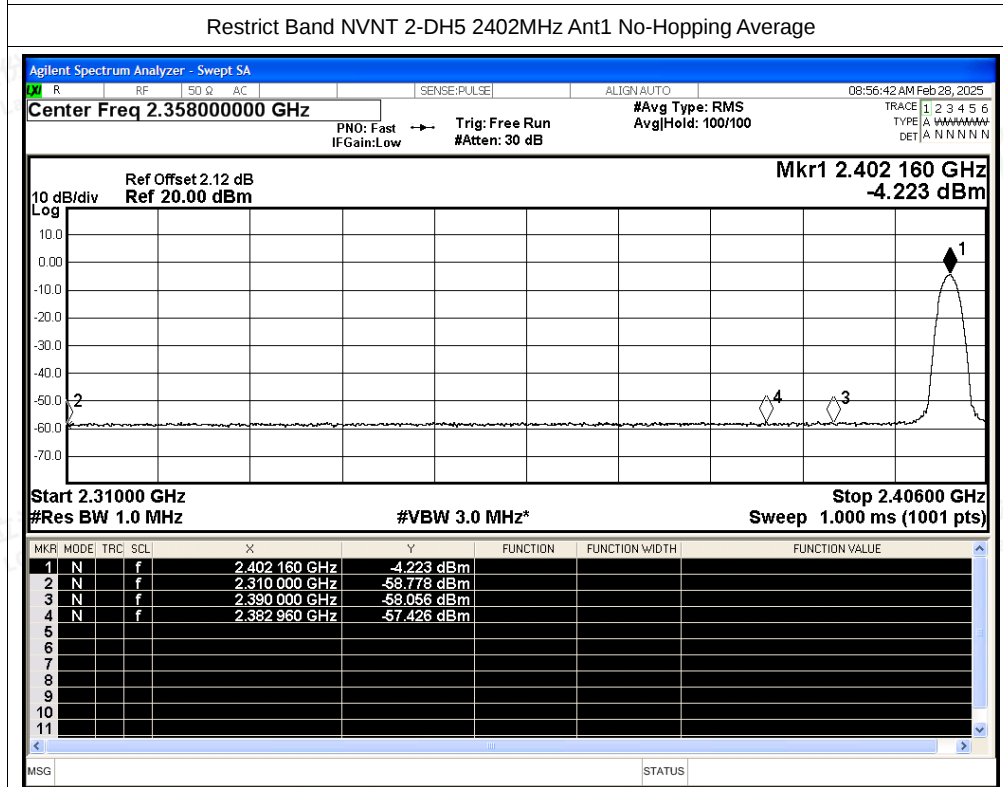
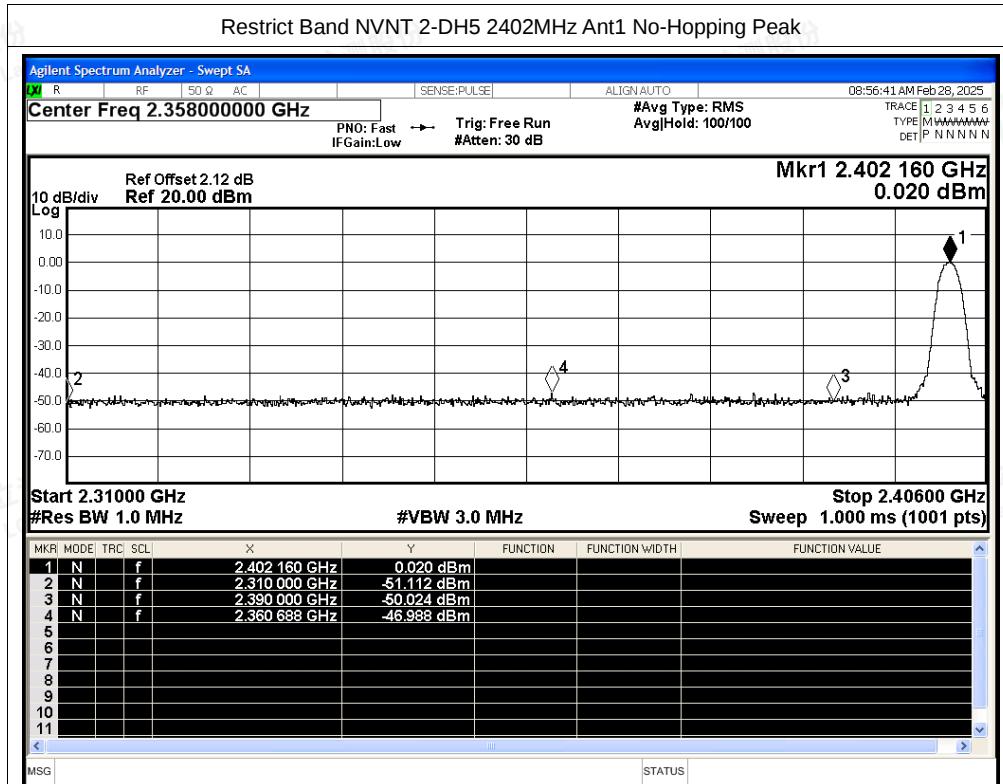


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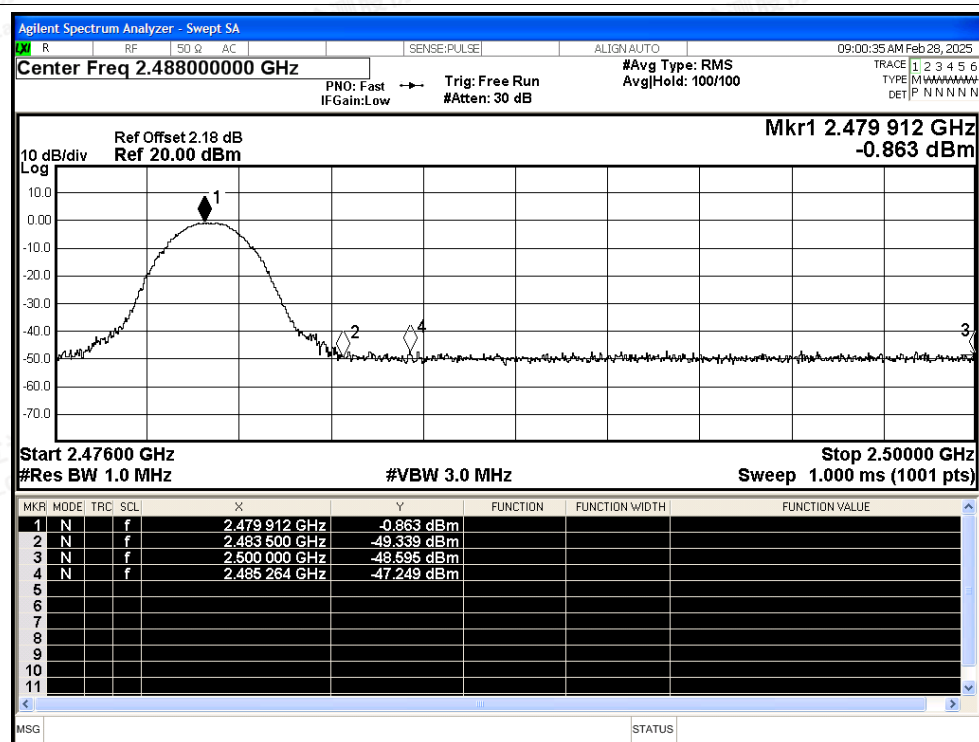
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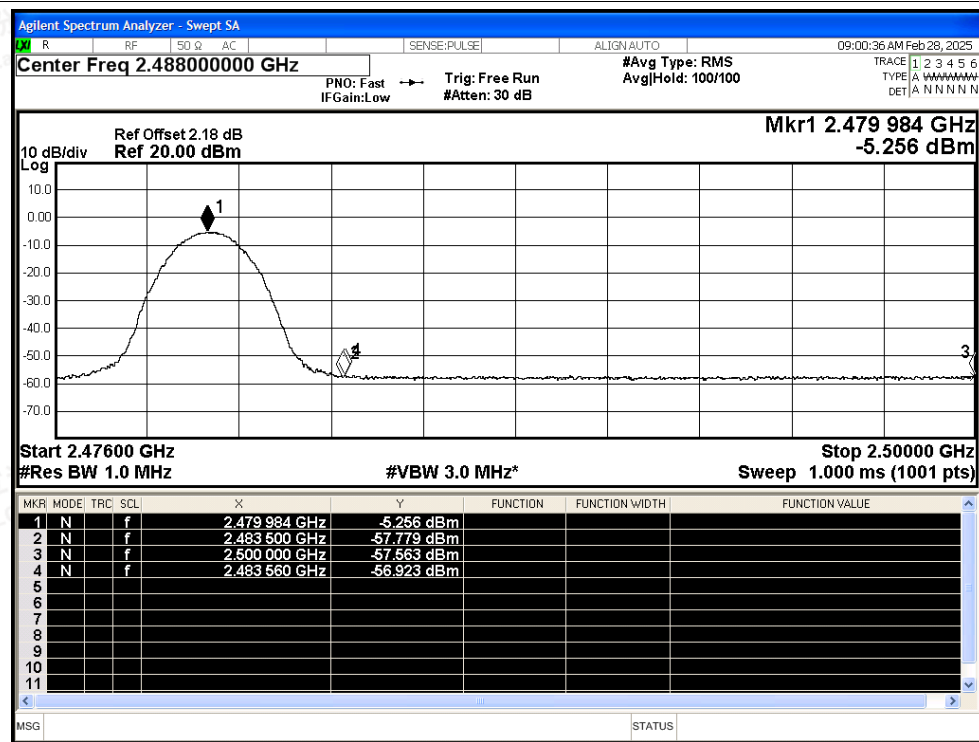
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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

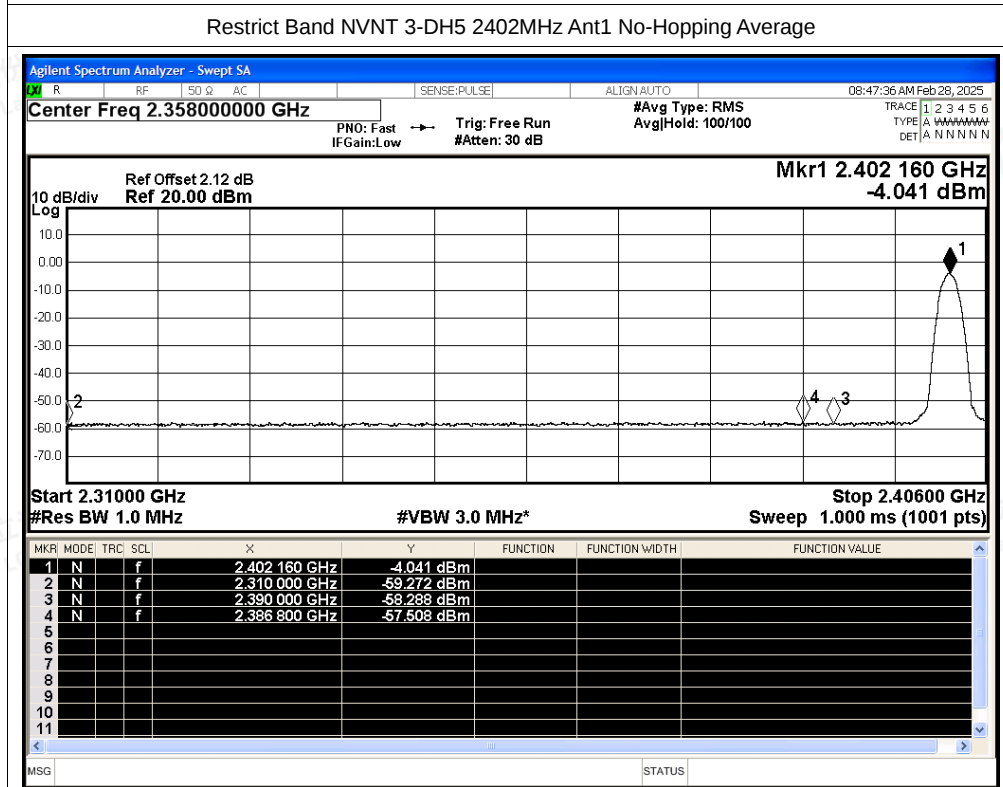
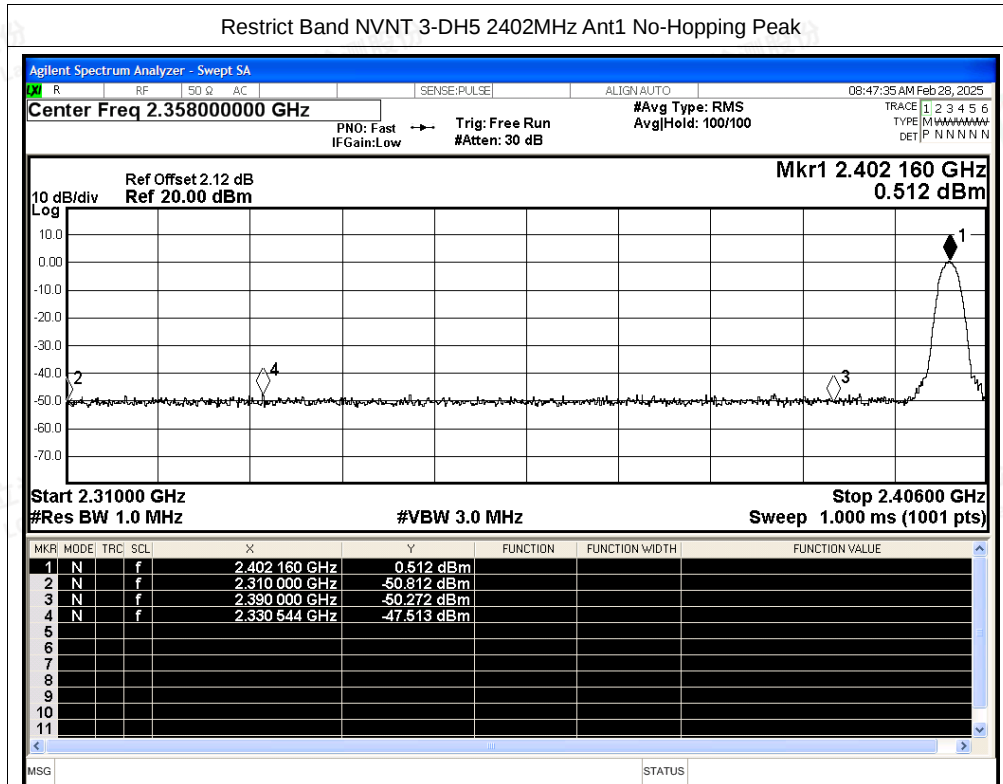


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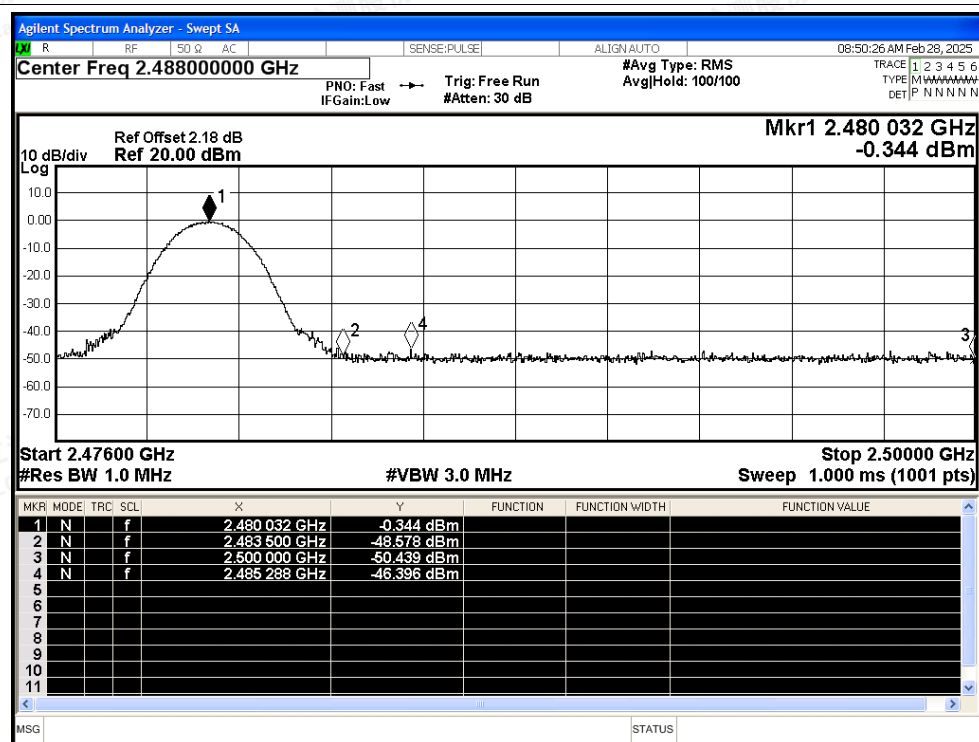
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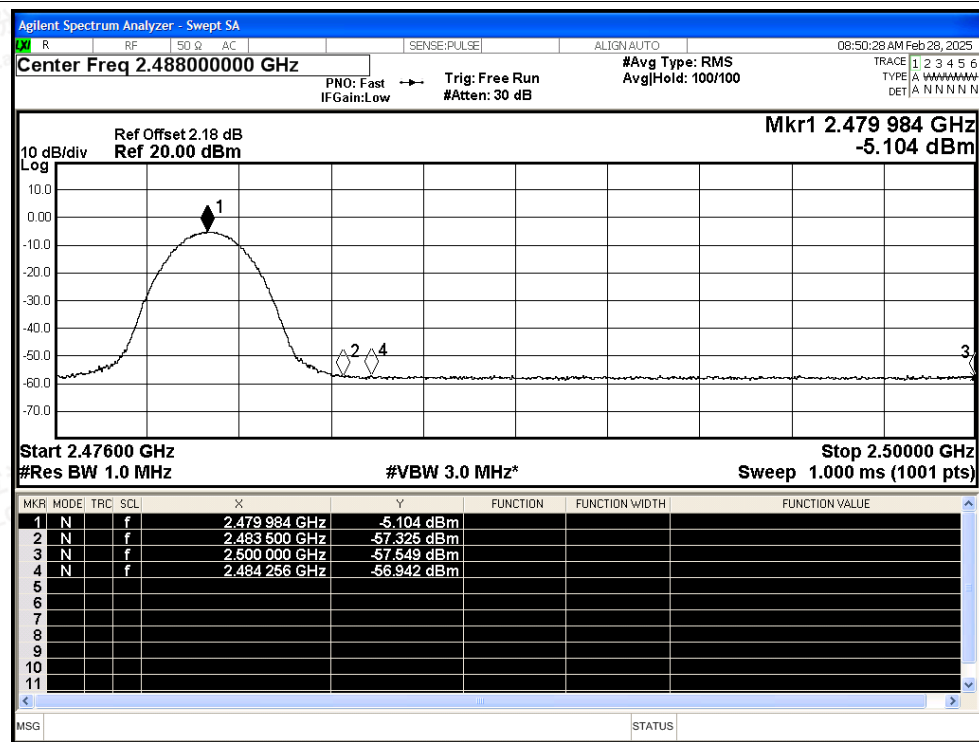
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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