



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth speaker

Test Model: RIOT

Environmental Conditions

Temperature:	24.5°C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Billy Yu
Supervised by:	Can Kun



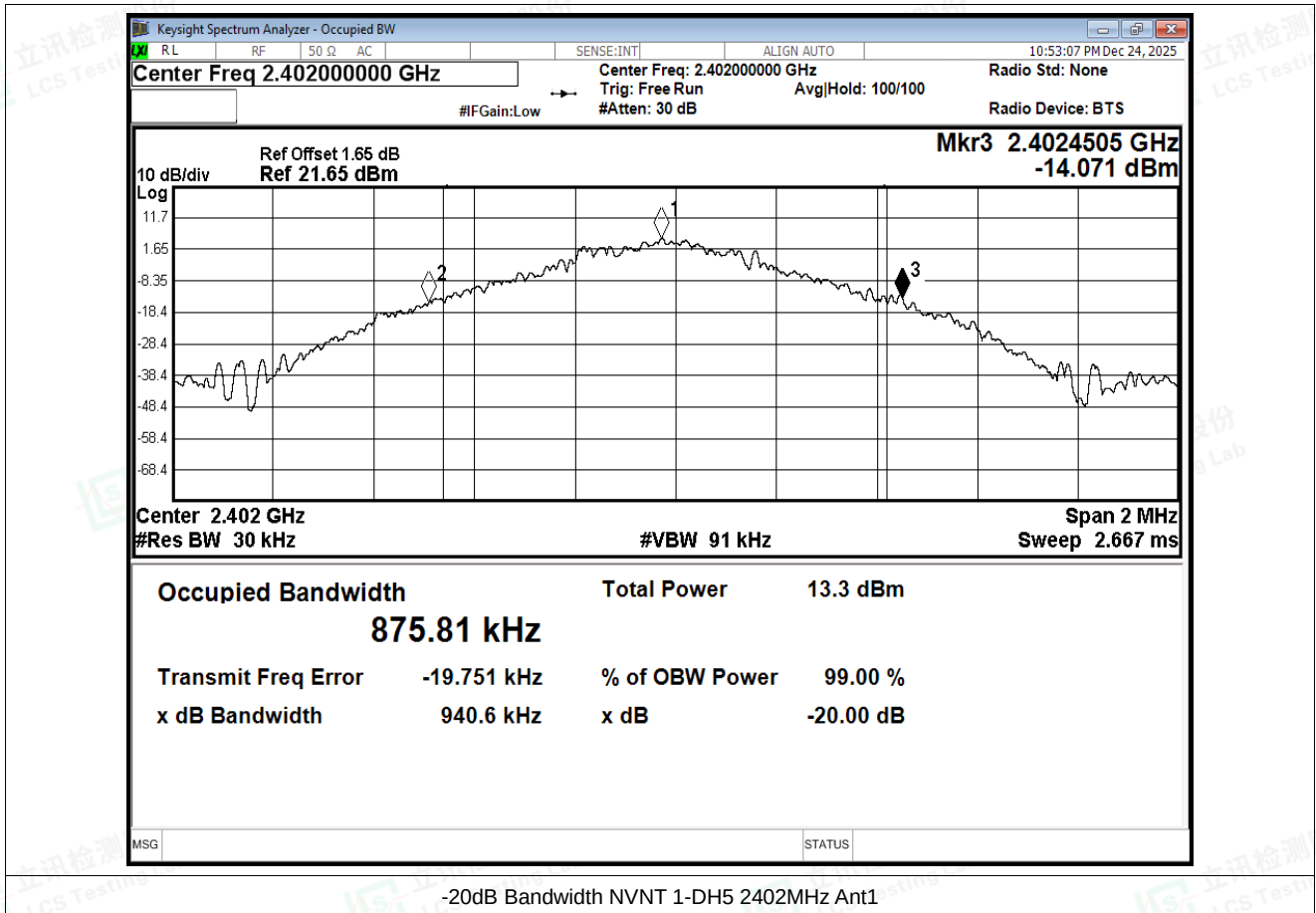
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A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.9406	0	Pass
NVNT	1-DH5	2441	Ant1	0.9798	0	Pass
NVNT	1-DH5	2480	Ant1	0.9369	0	Pass
NVNT	2-DH5	2402	Ant1	1.315	0	Pass
NVNT	2-DH5	2441	Ant1	1.289	0	Pass
NVNT	2-DH5	2480	Ant1	1.267	0	Pass
NVNT	3-DH5	2402	Ant1	1.292	0	Pass
NVNT	3-DH5	2441	Ant1	1.291	0	Pass
NVNT	3-DH5	2480	Ant1	1.287	0	Pass



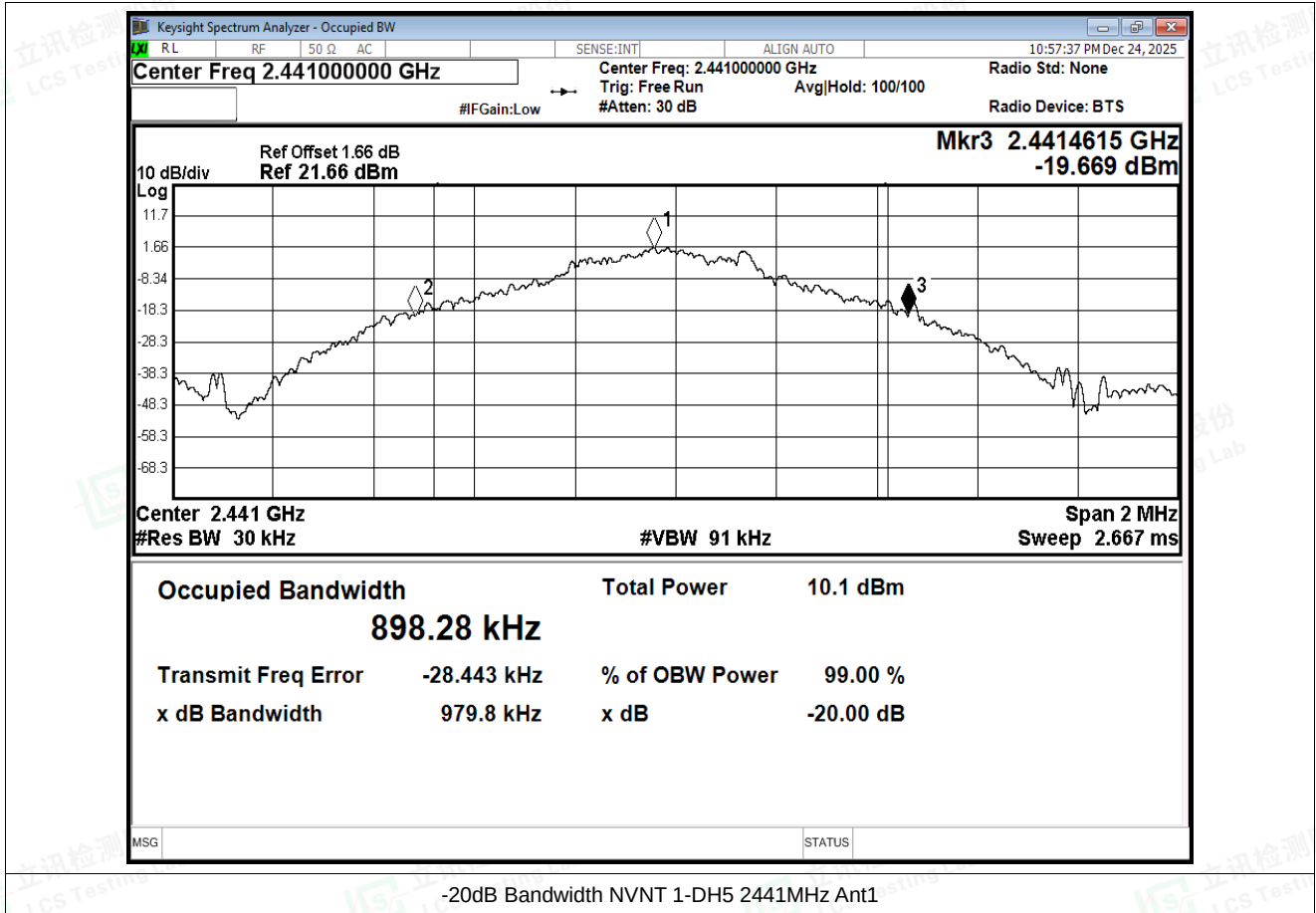


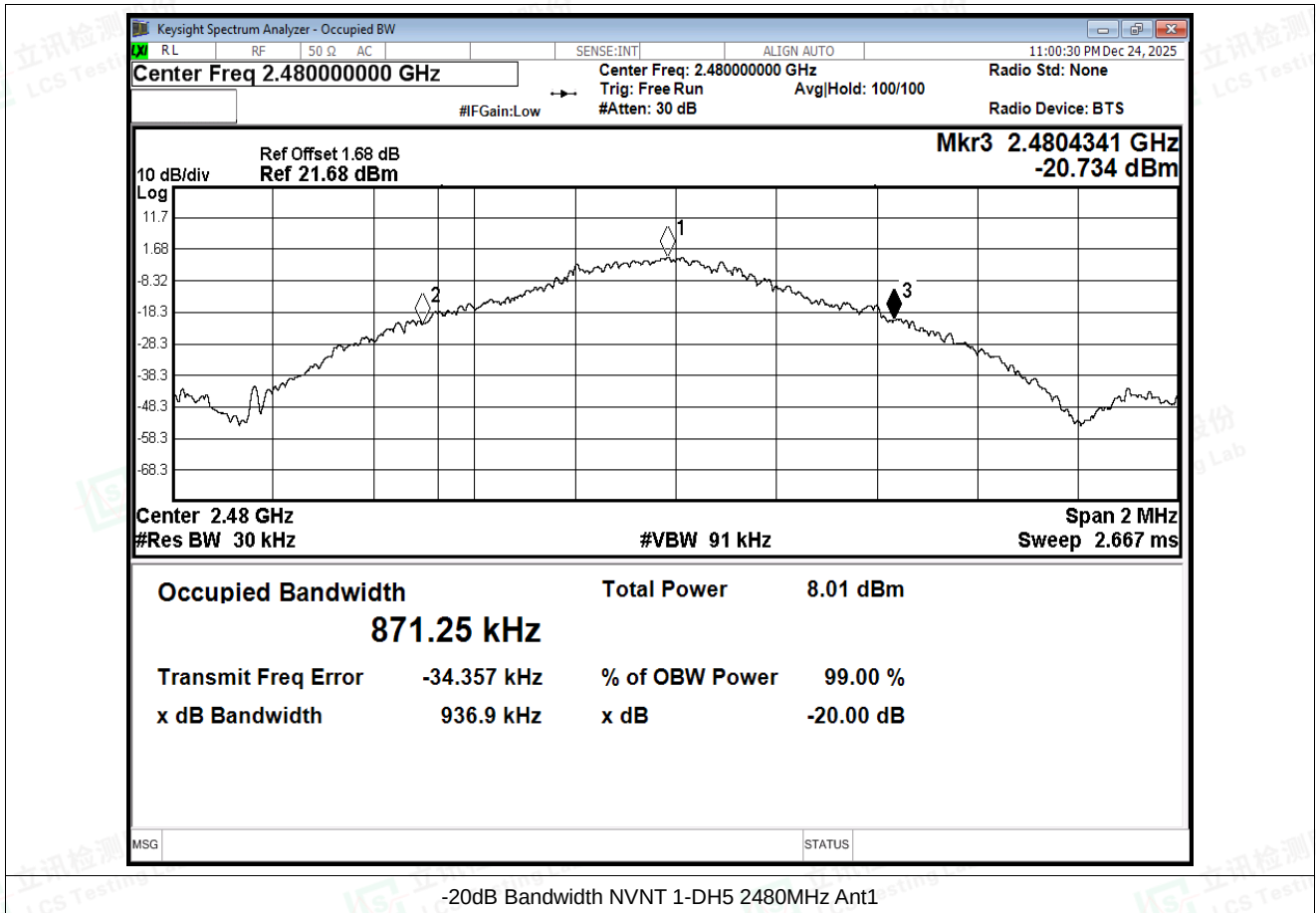
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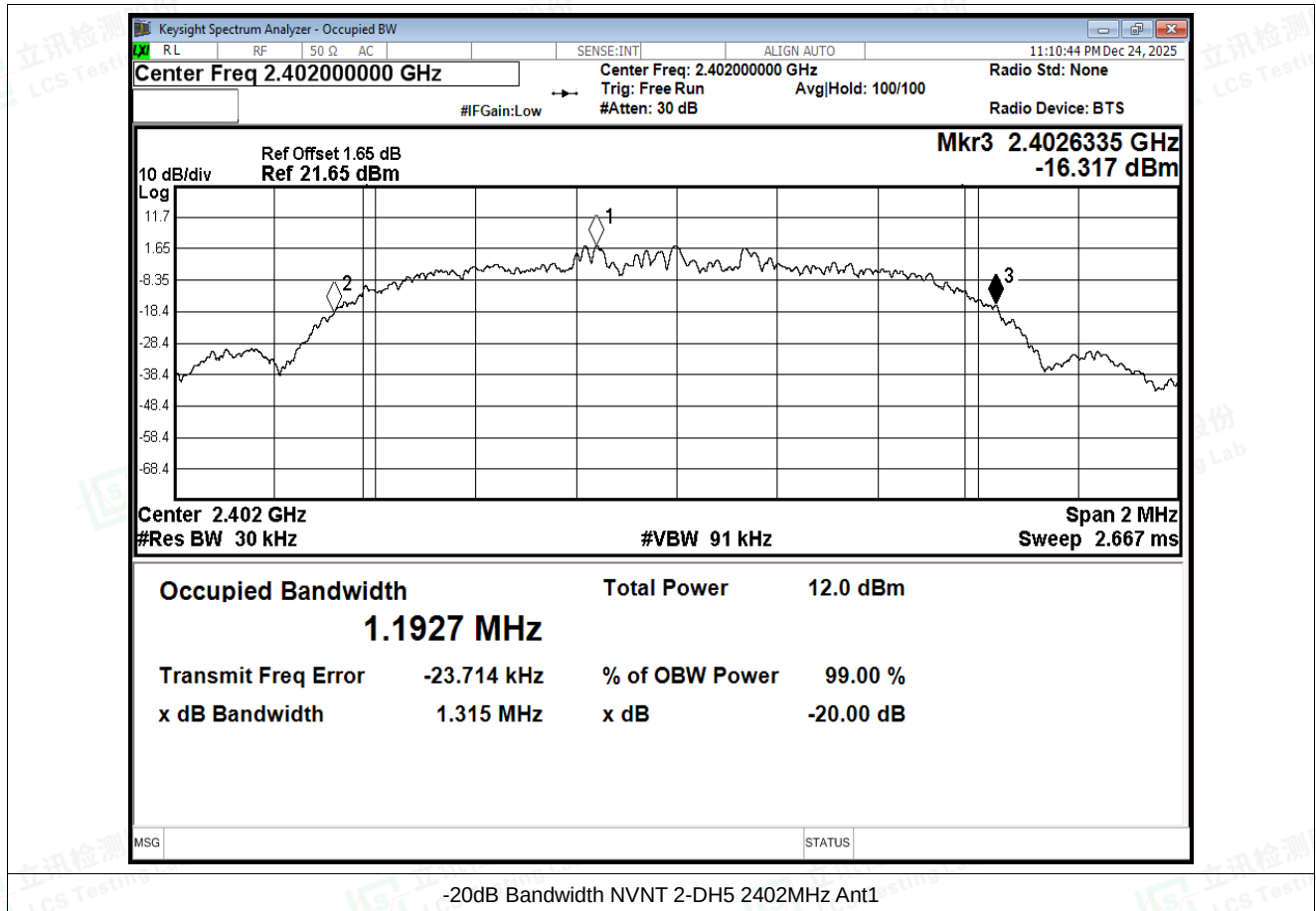


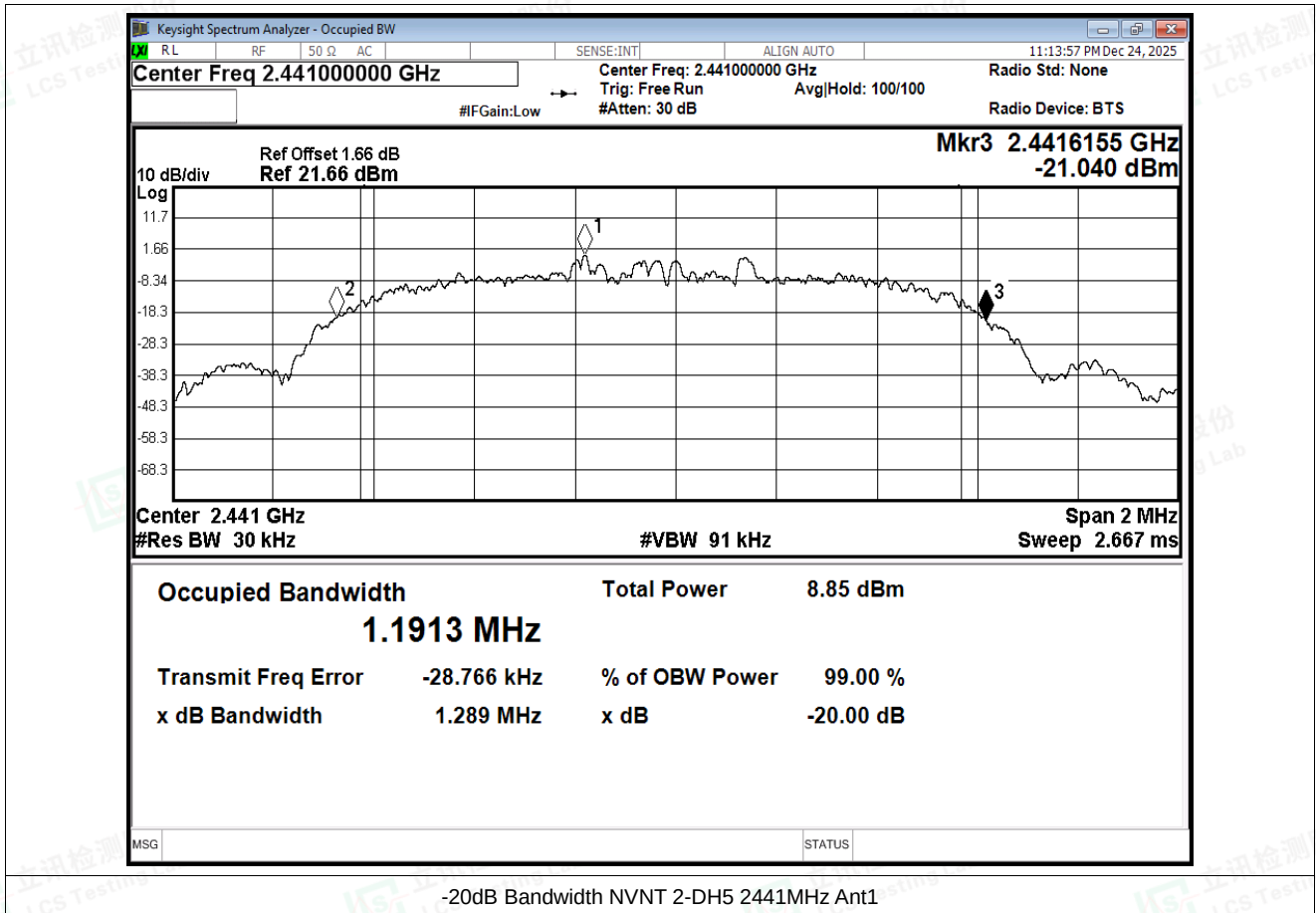
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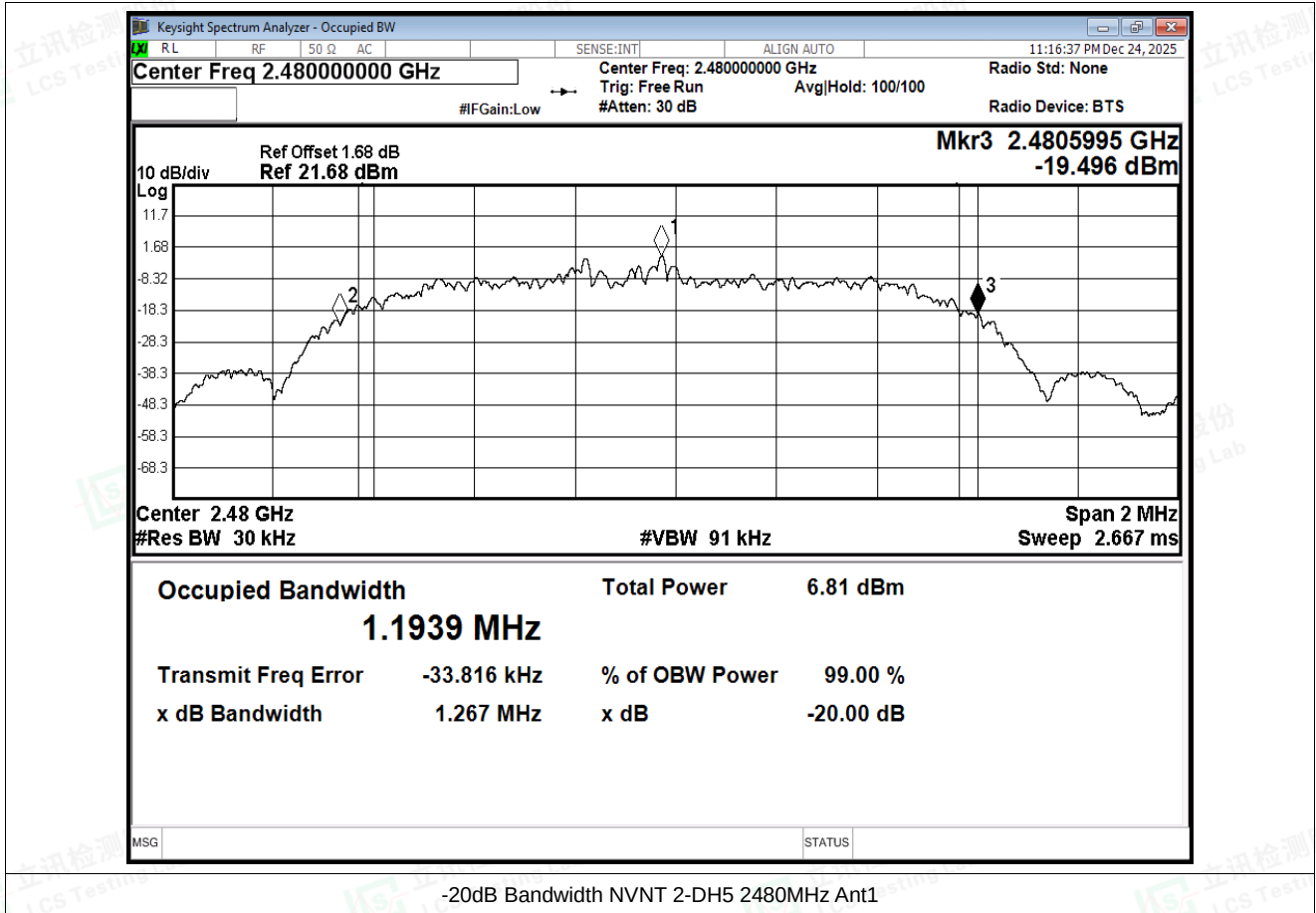


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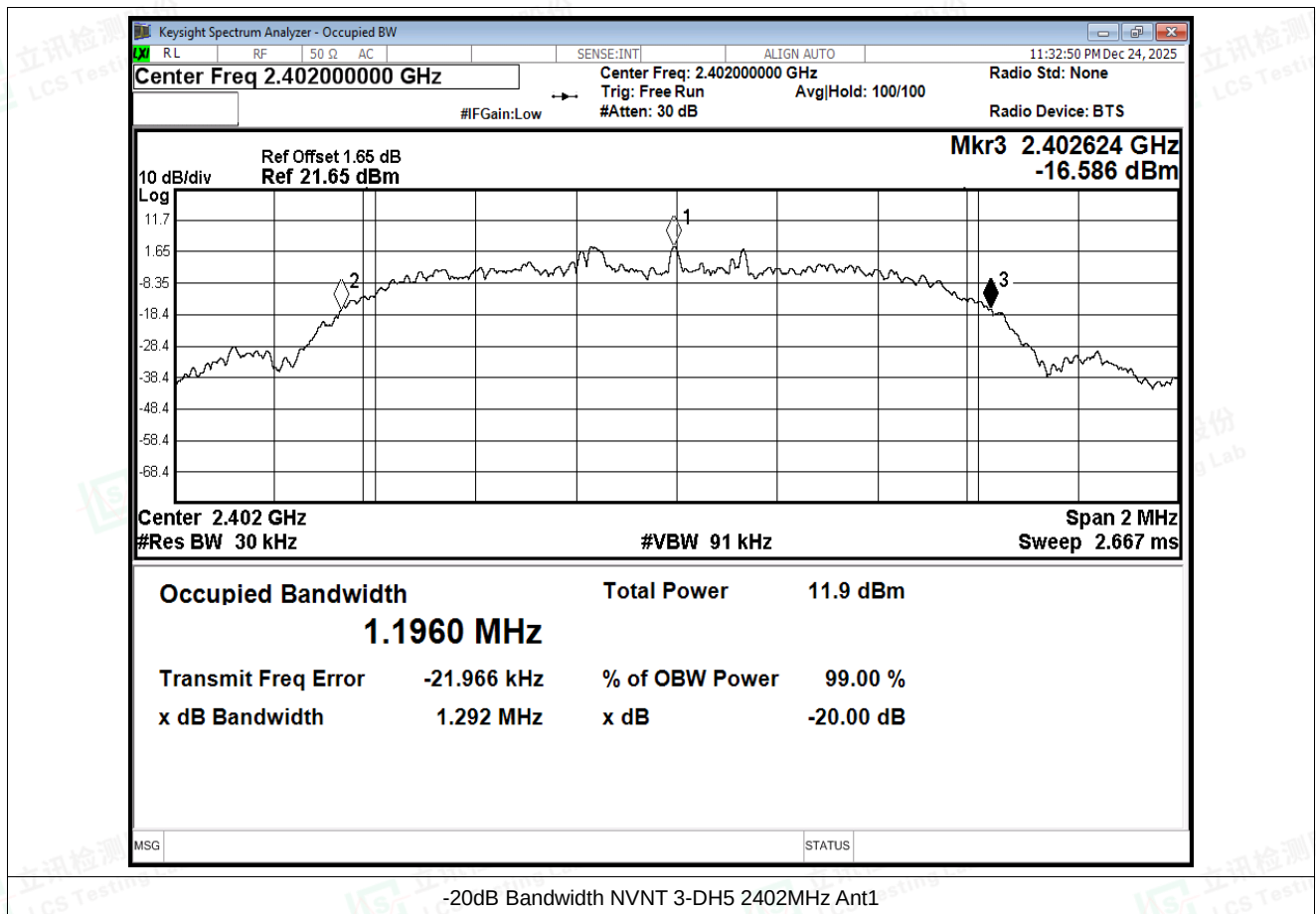


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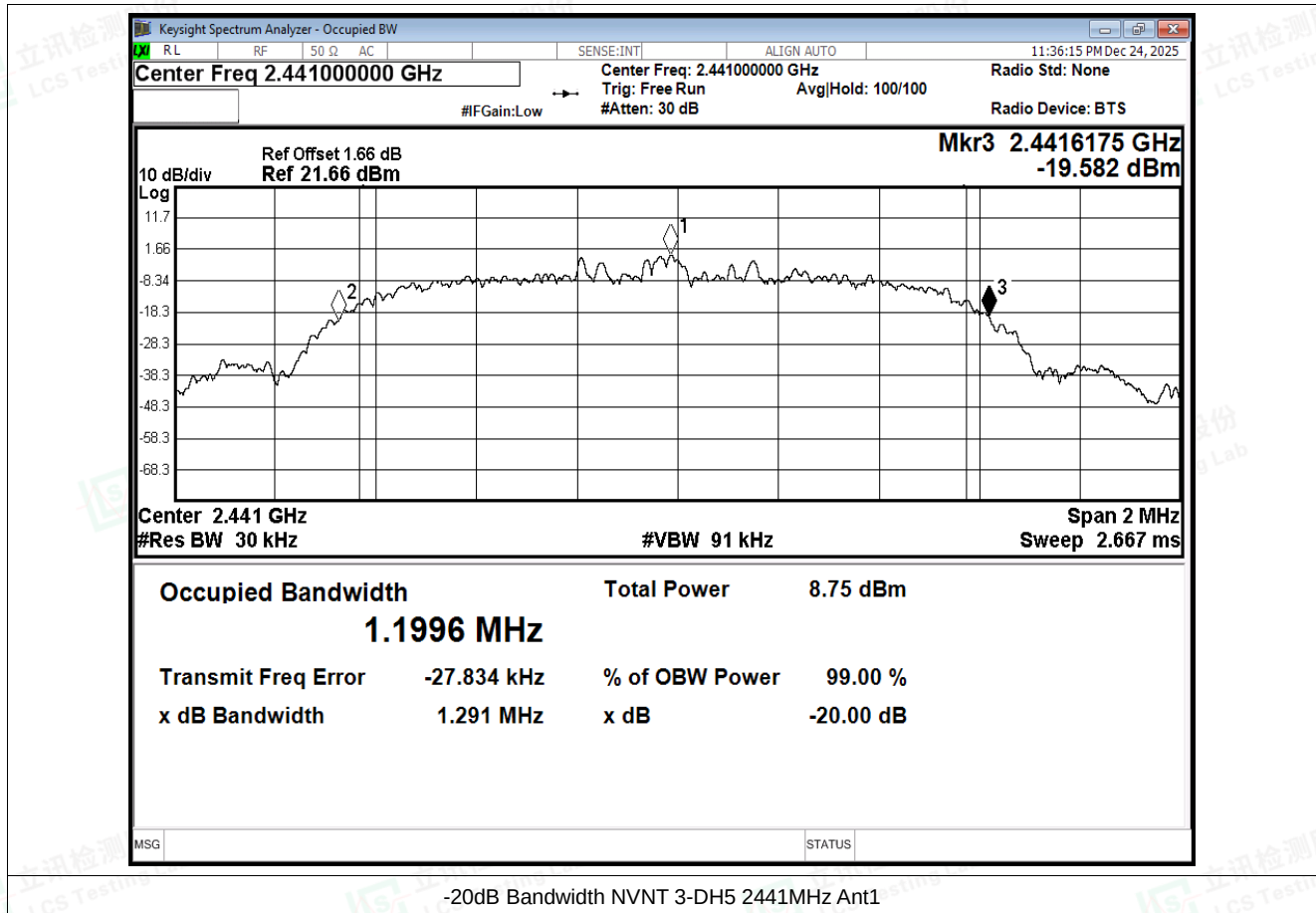
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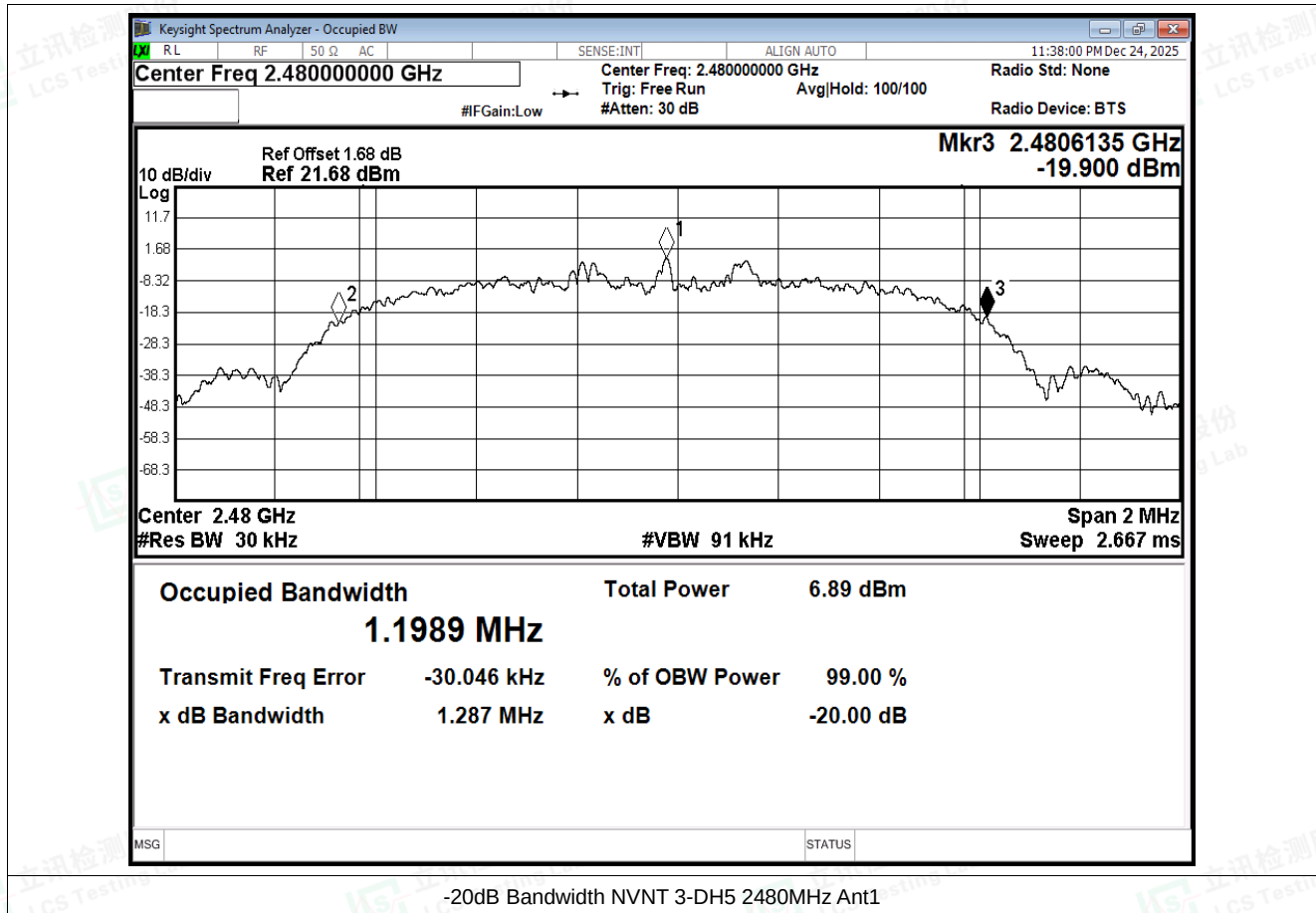
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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	6.74	21	Pass
NVNT	1-DH5	2441	Ant1	3.58	21	Pass
NVNT	1-DH5	2480	Ant1	1.55	21	Pass
NVNT	2-DH5	2402	Ant1	6.69	21	Pass
NVNT	2-DH5	2441	Ant1	3.56	21	Pass
NVNT	2-DH5	2480	Ant1	1.53	21	Pass
NVNT	3-DH5	2402	Ant1	6.97	21	Pass
NVNT	3-DH5	2441	Ant1	3.93	21	Pass
NVNT	3-DH5	2480	Ant1	1.9	21	Pass

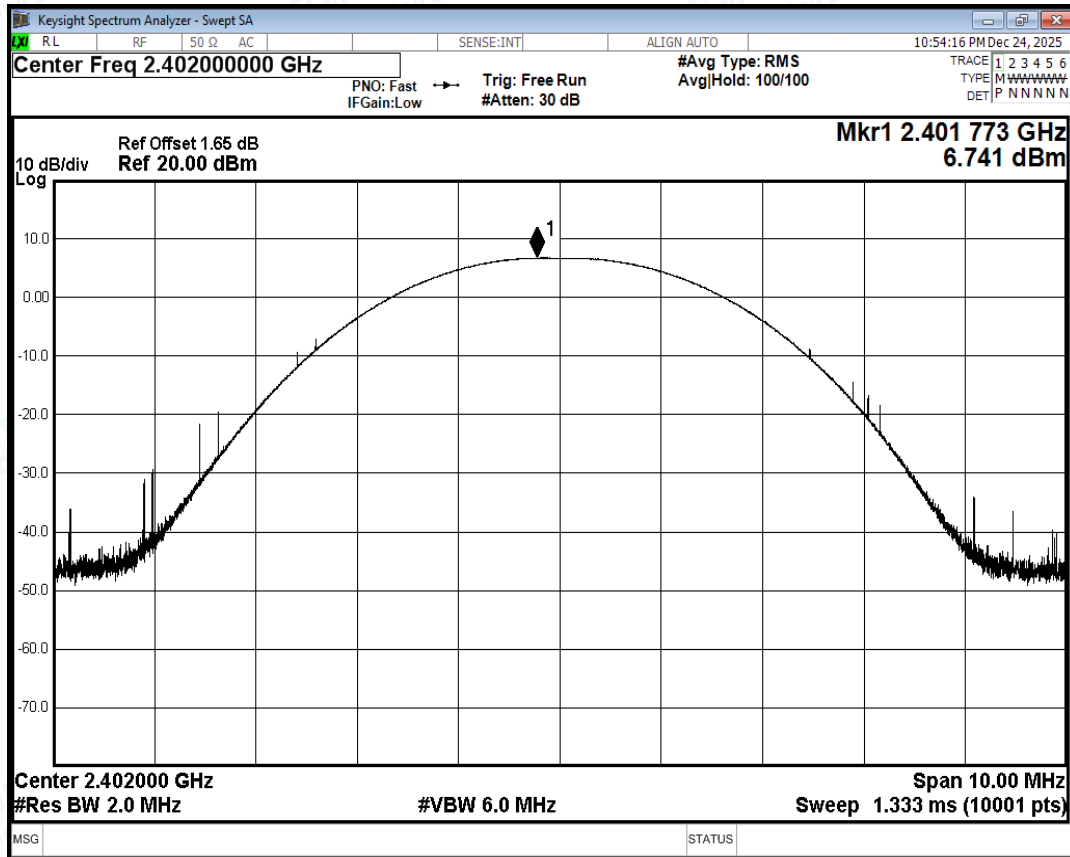


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Peak Power NVNT 1-DH5 2402MHz Ant1

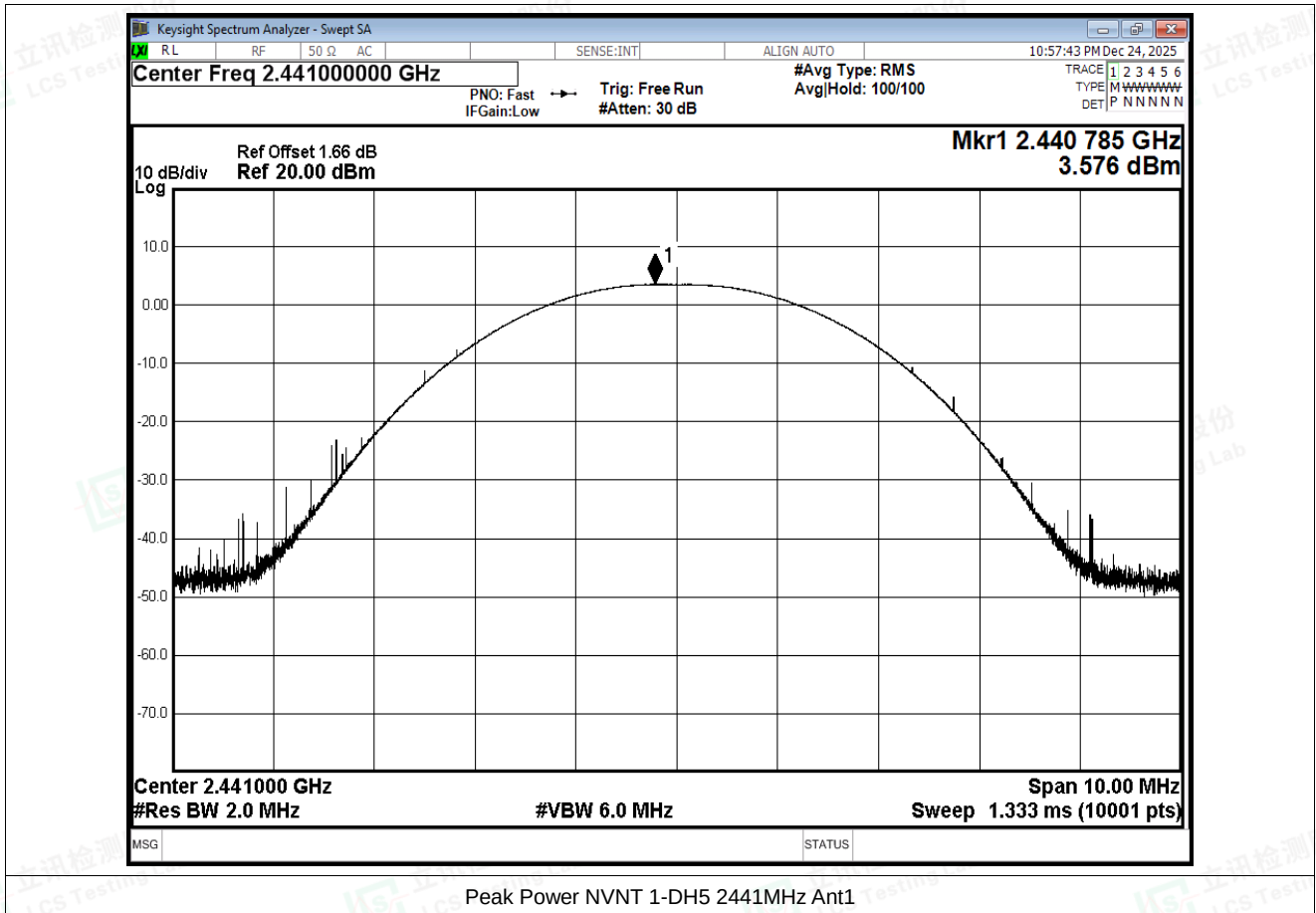


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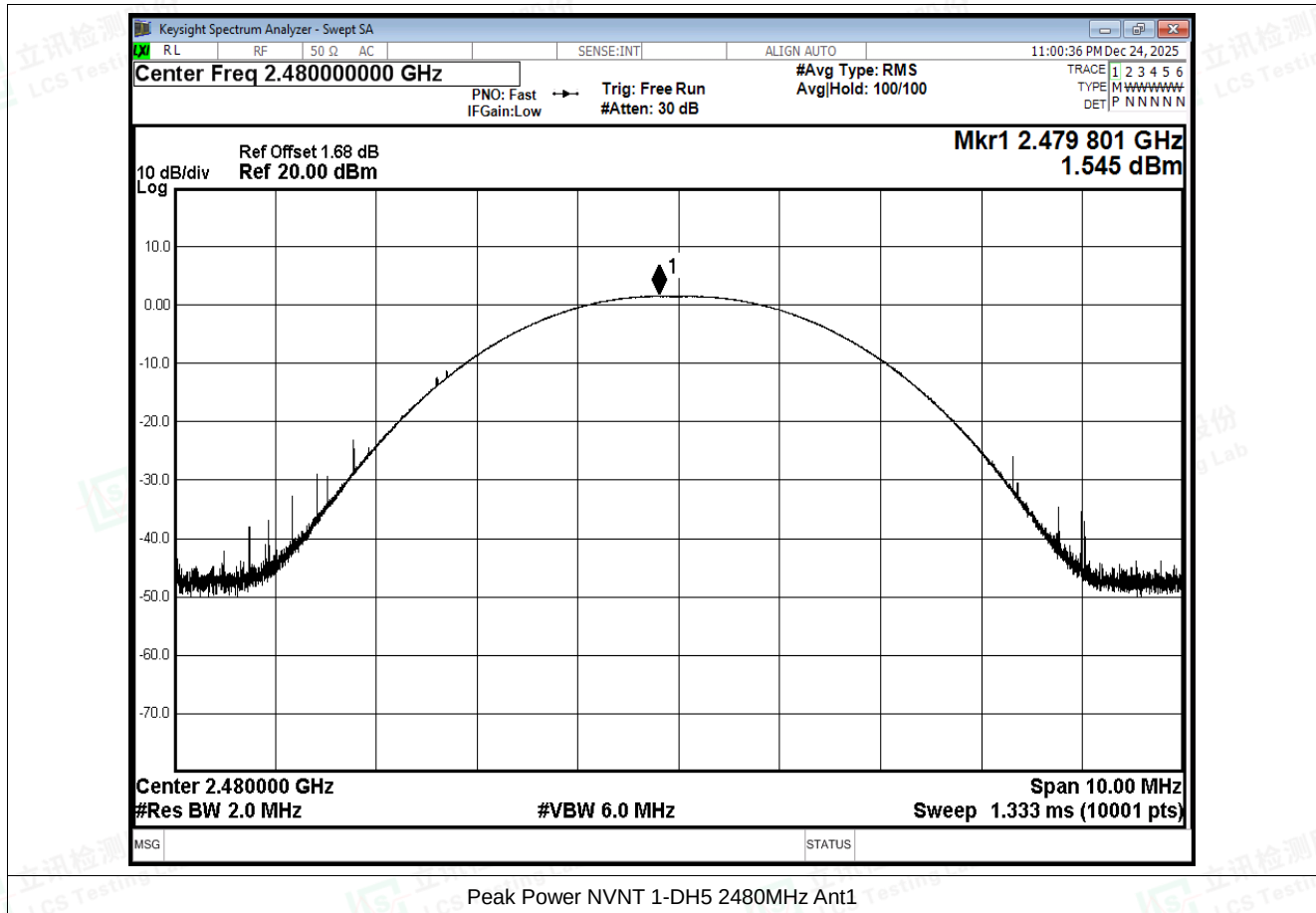
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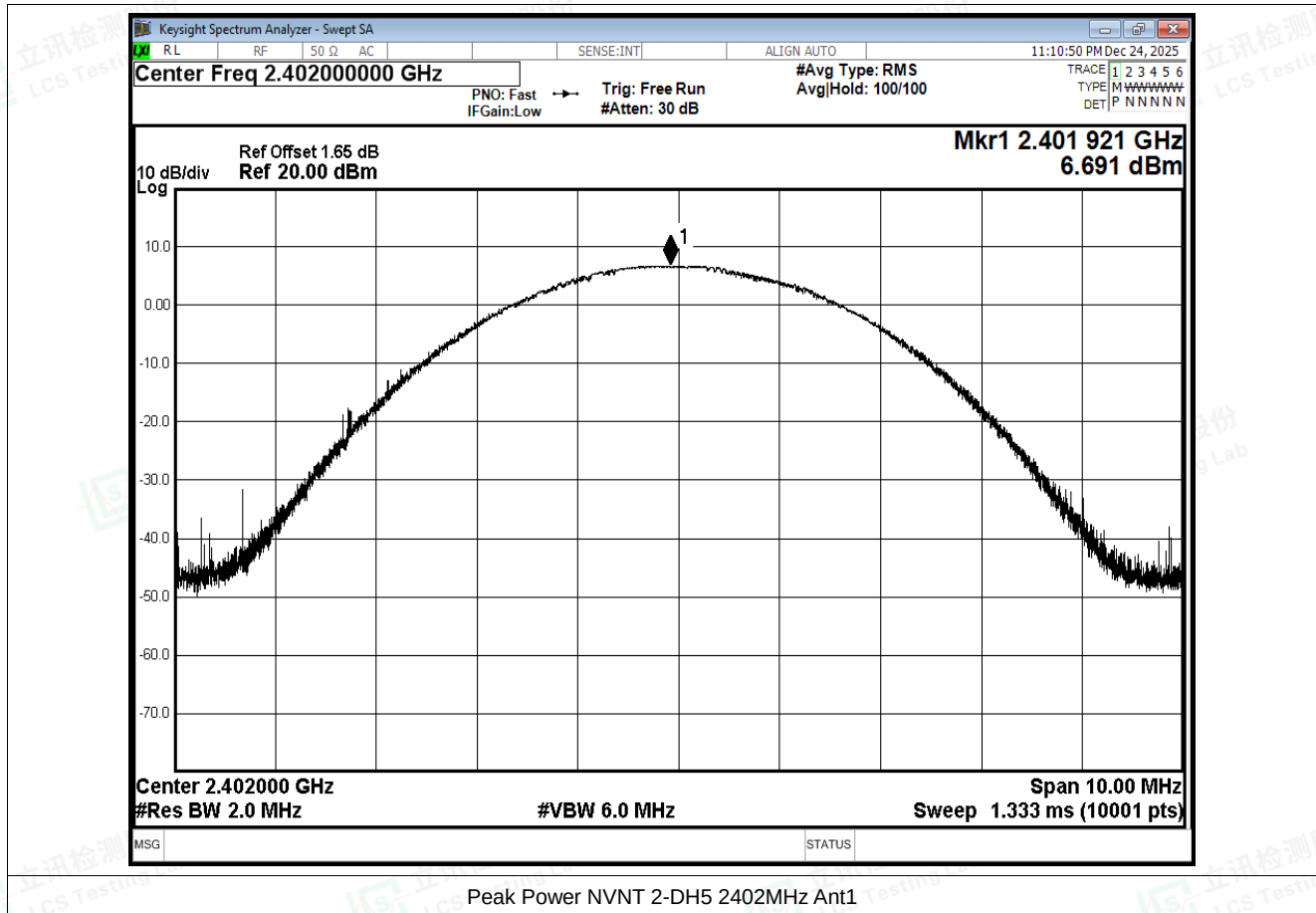
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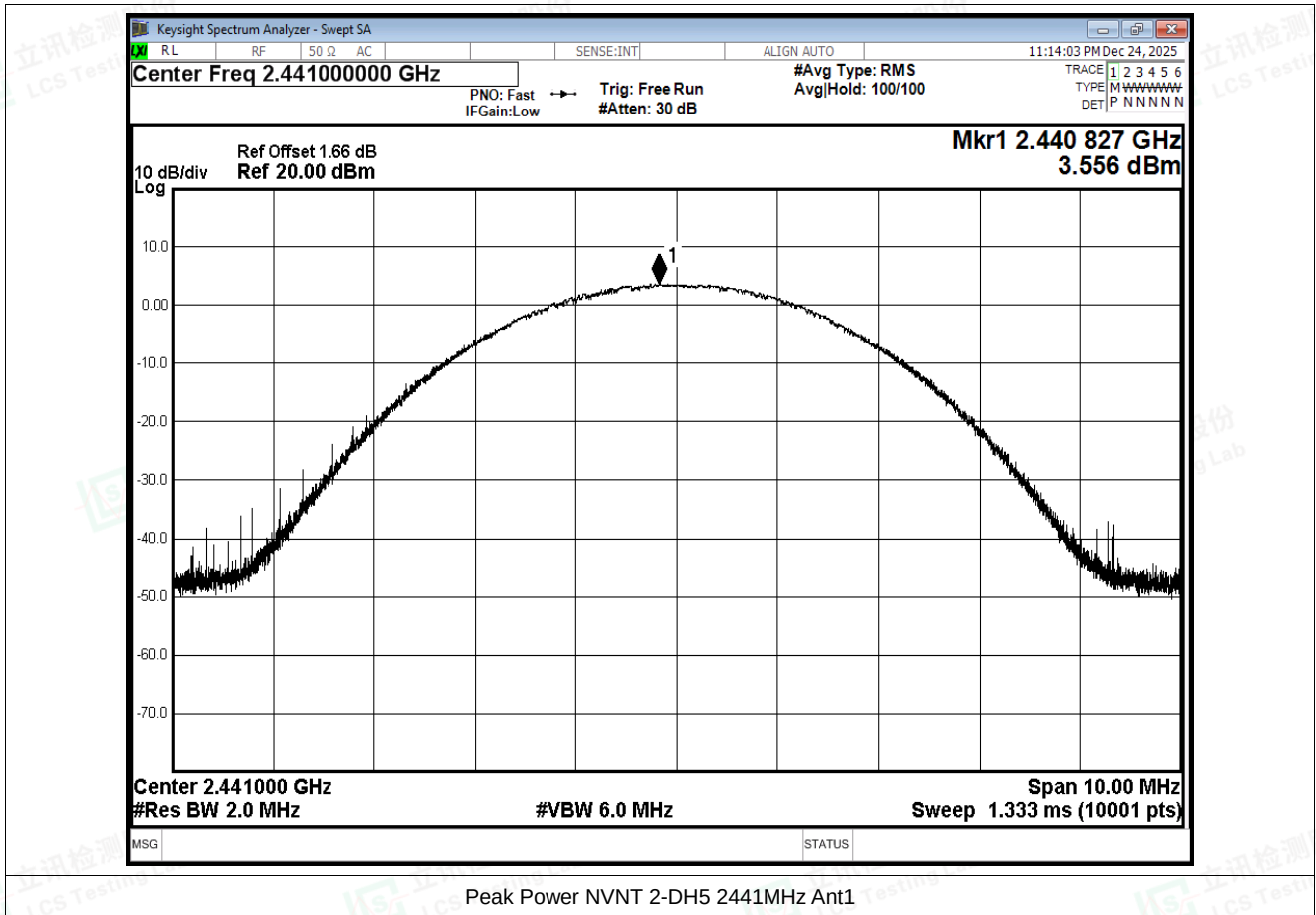


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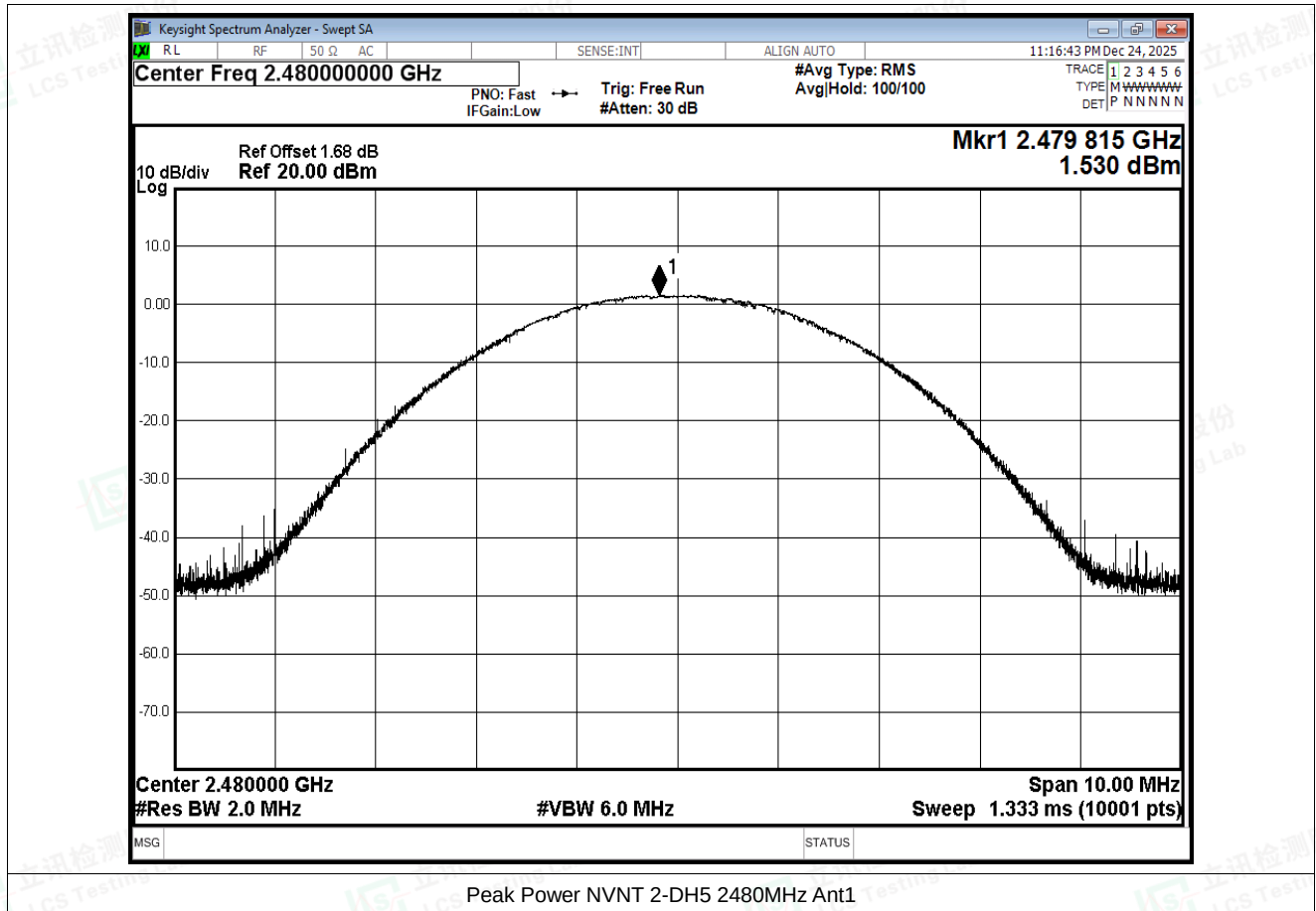
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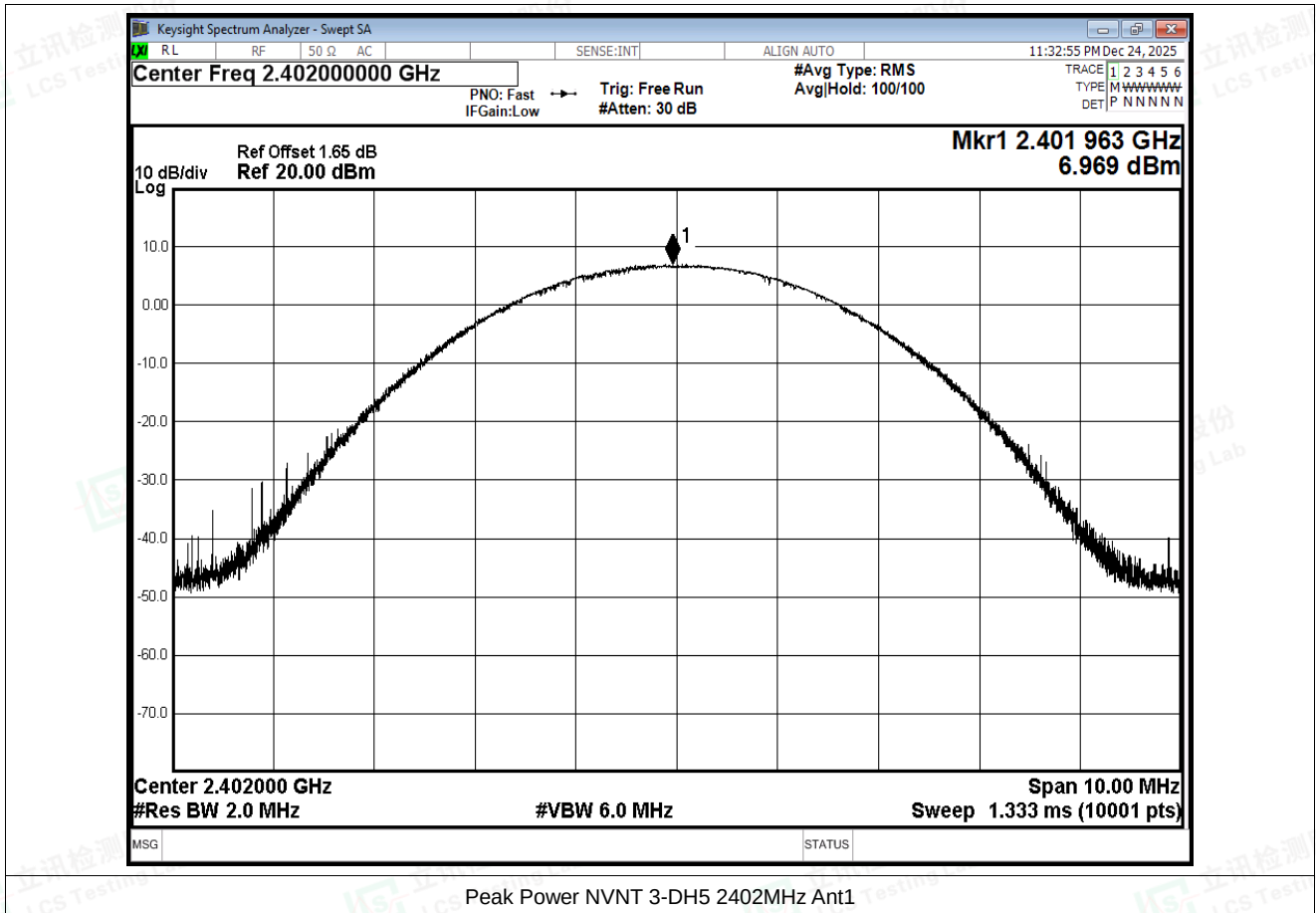


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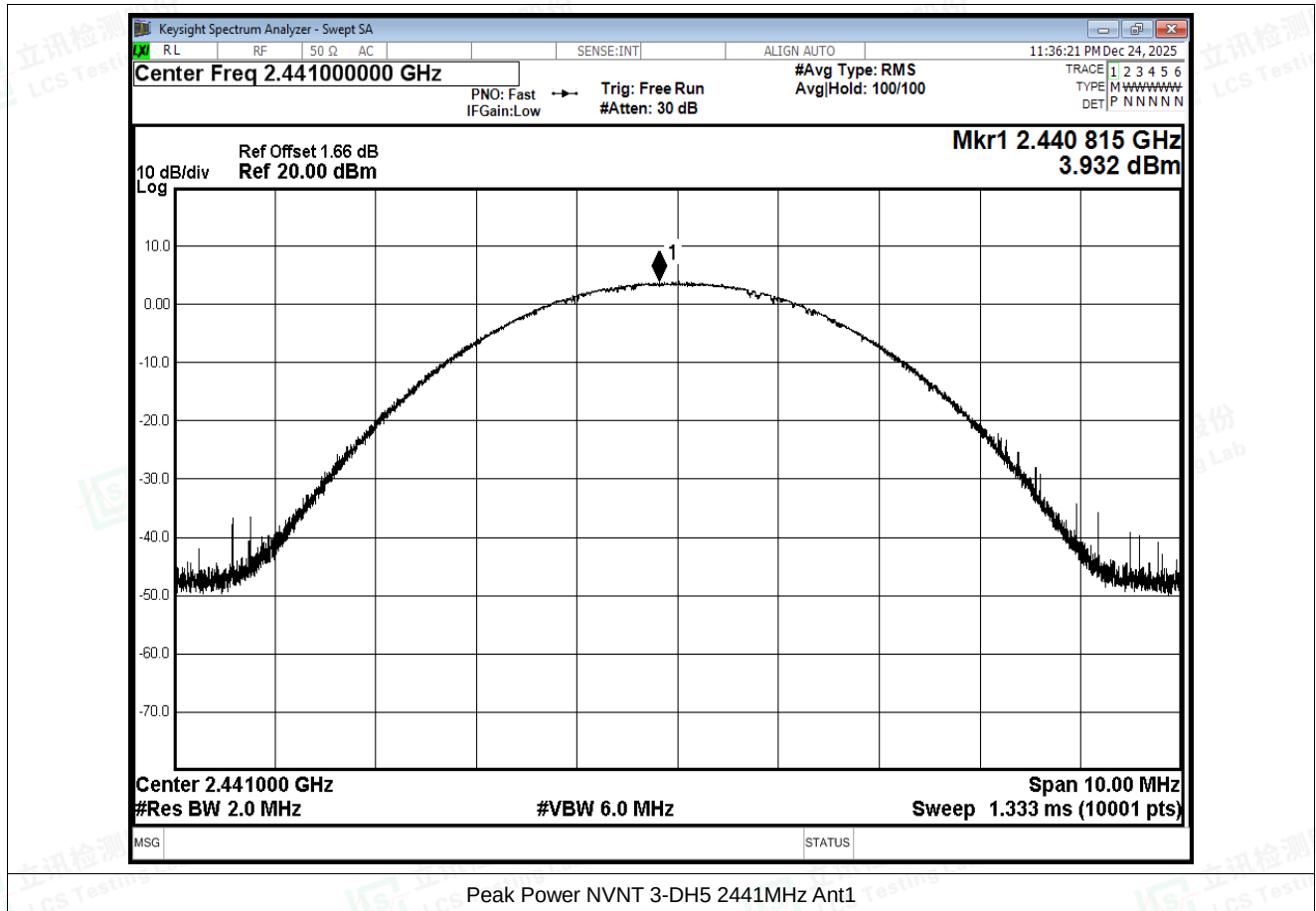
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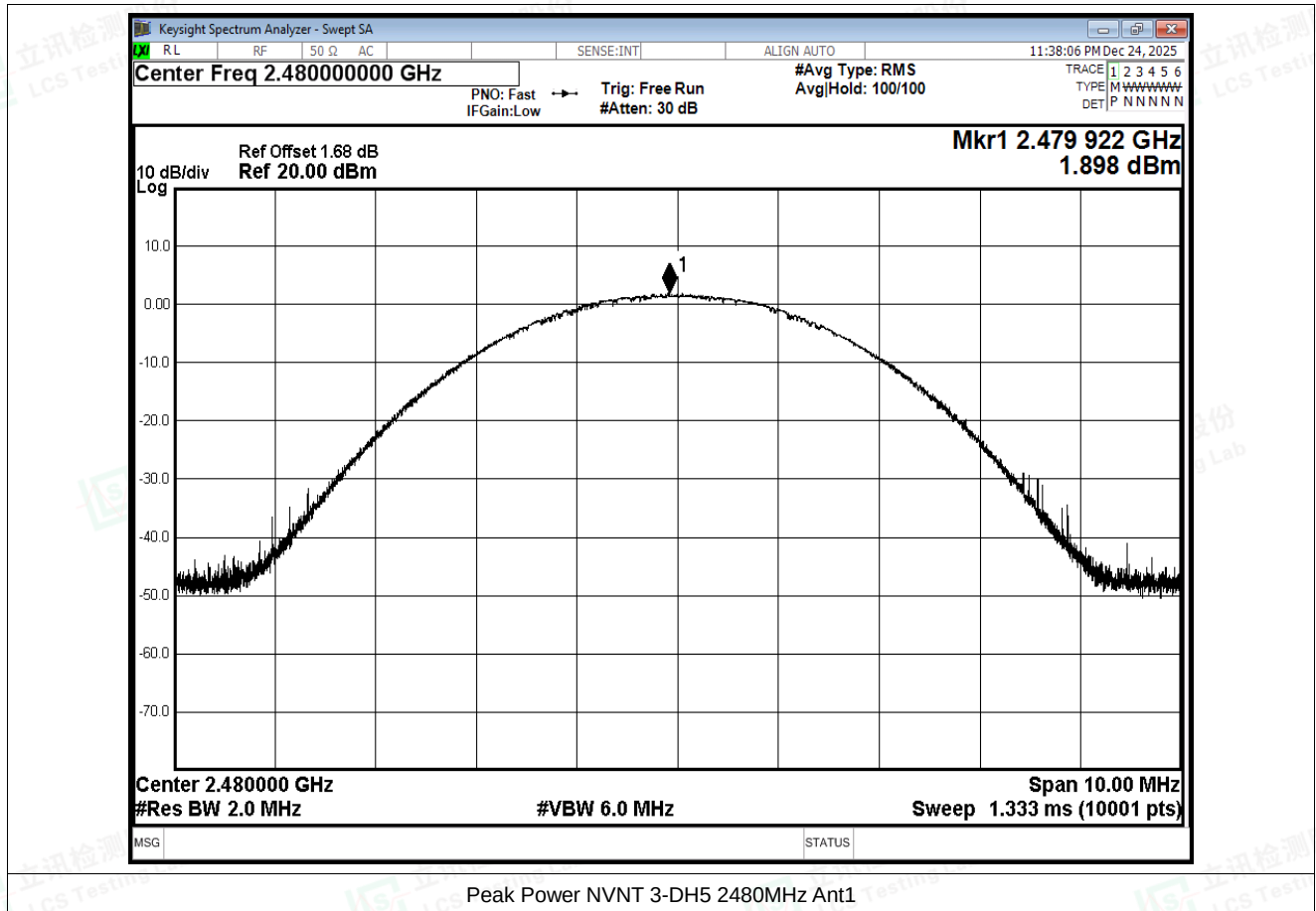
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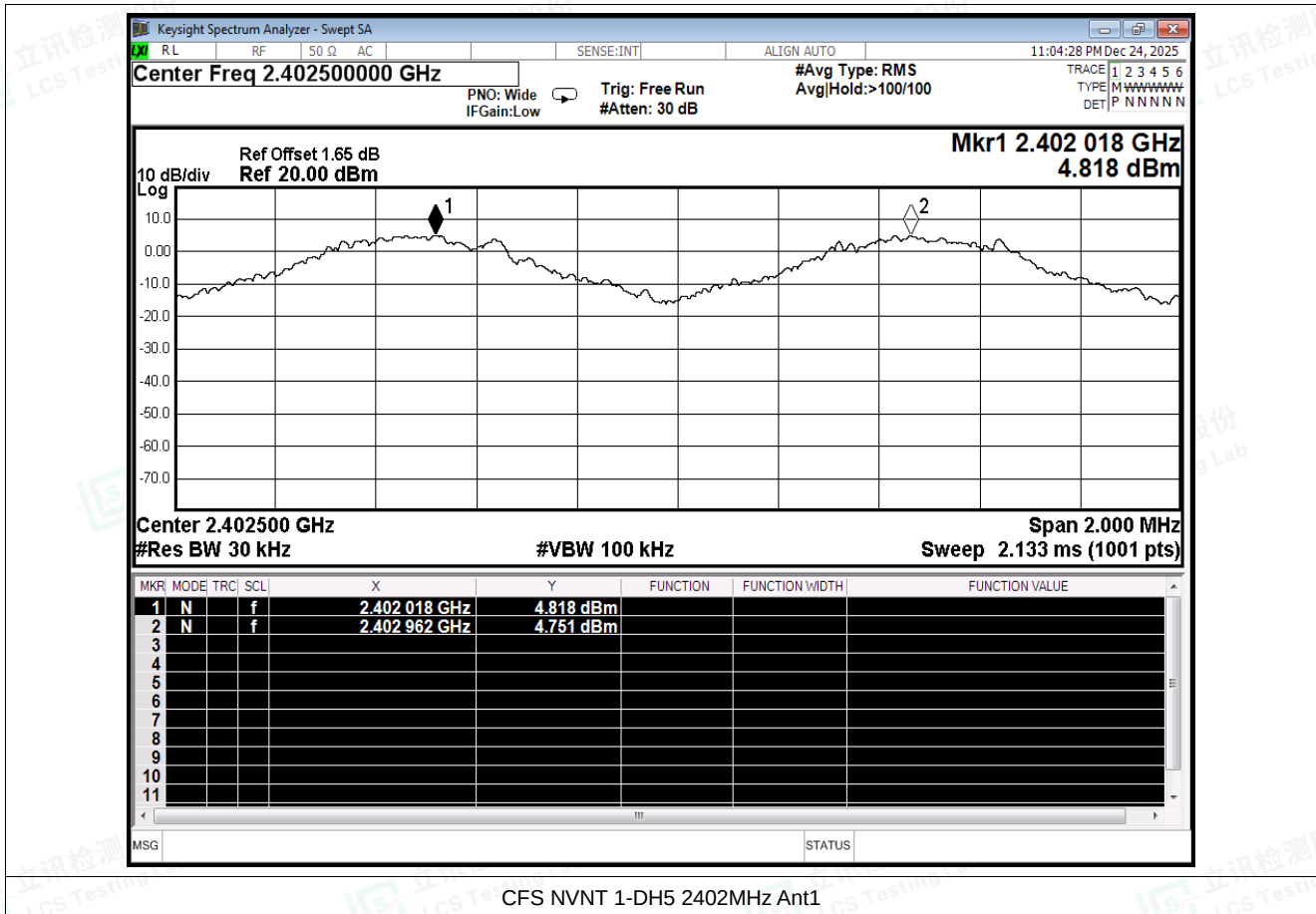
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.018	2402.962	0.944	0.653	Pass
NVNT	2-DH5	Ant1	2401.834	2402.994	1.16	0.877	Pass
NVNT	3-DH5	Ant1	2401.992	2402.984	0.992	0.861	Pass





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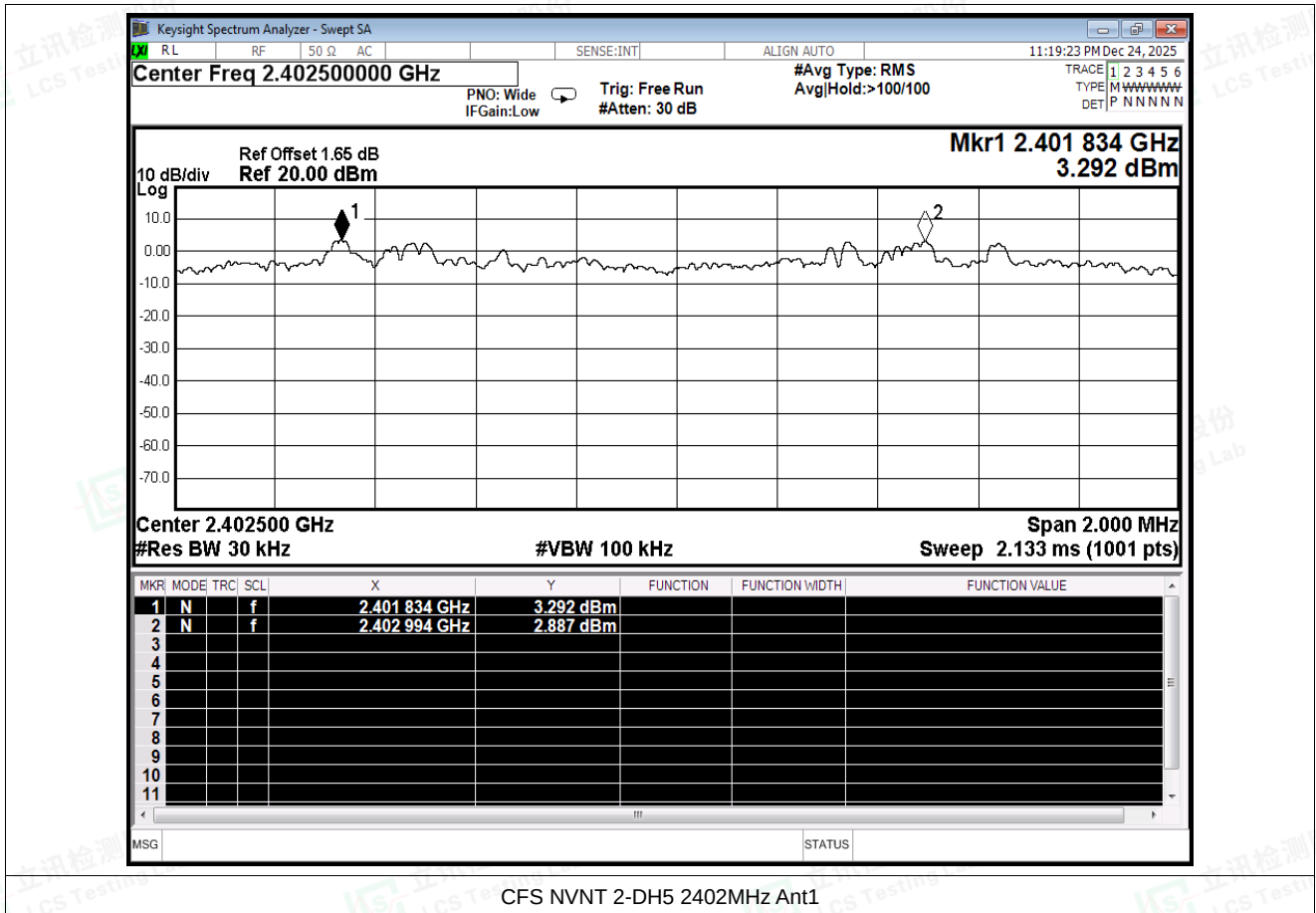
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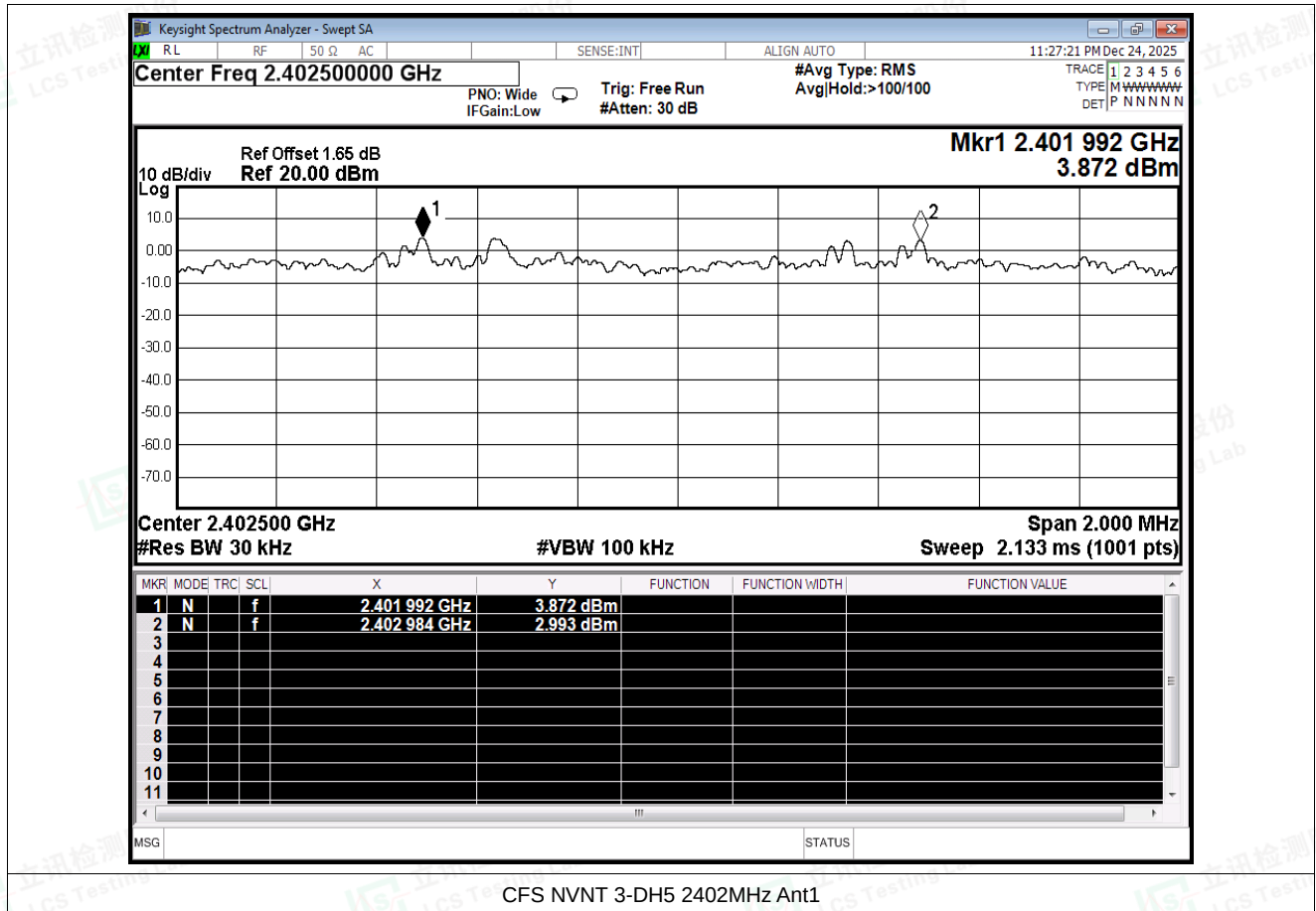
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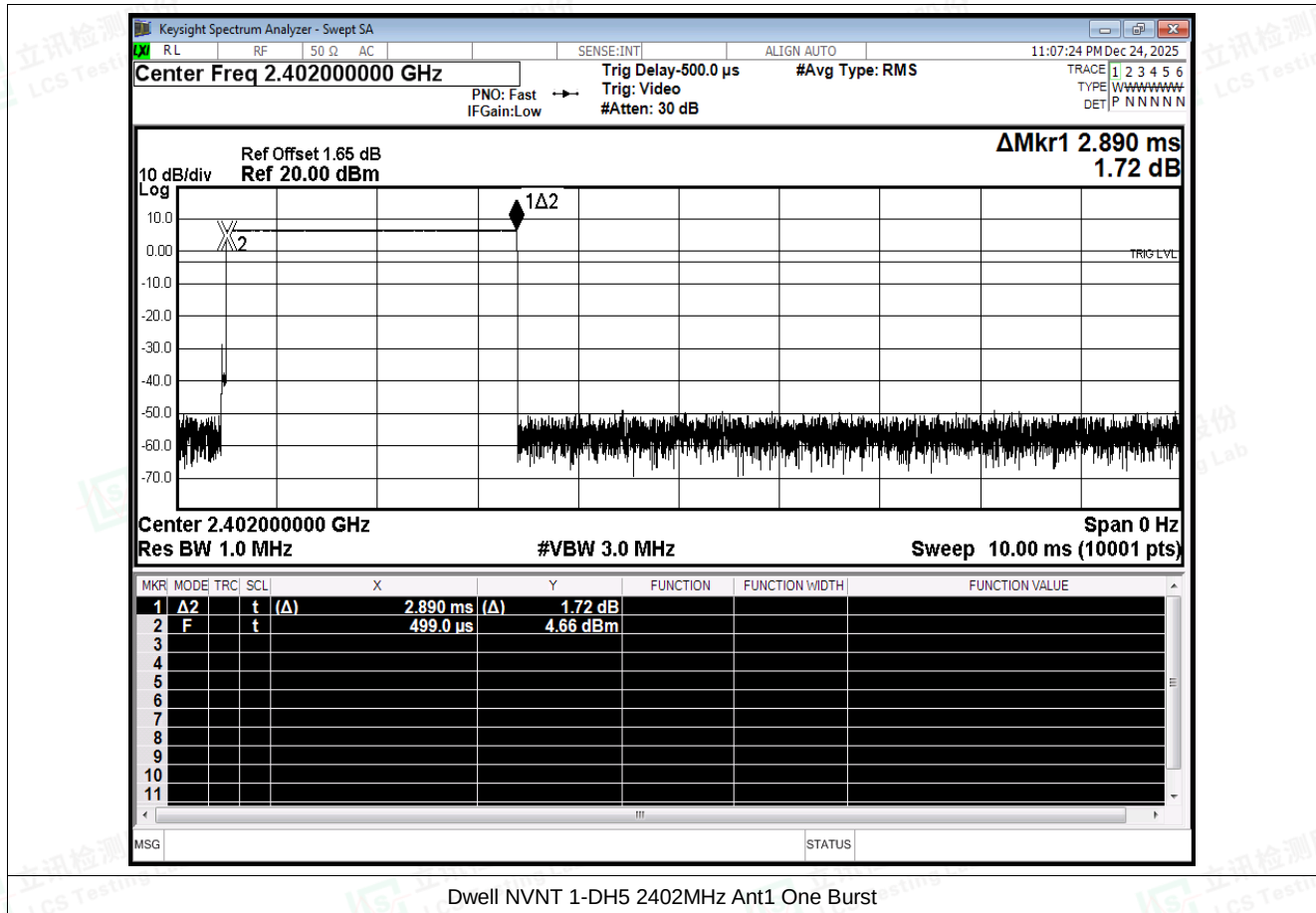
A.4 Dwell Time

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	2.89	320.79	111	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.866	275.136	96	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	291.587	101	31600	400	Pass





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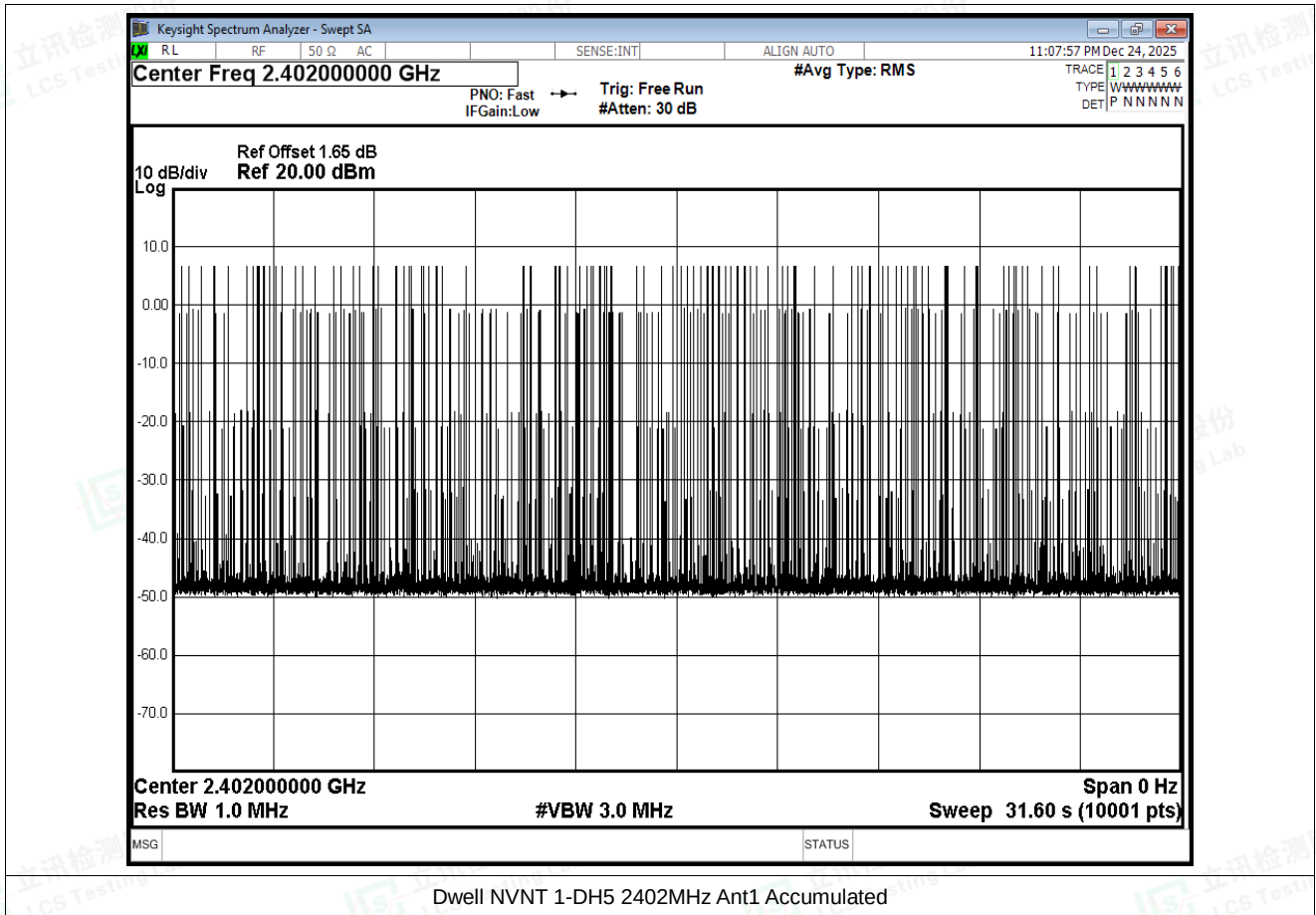
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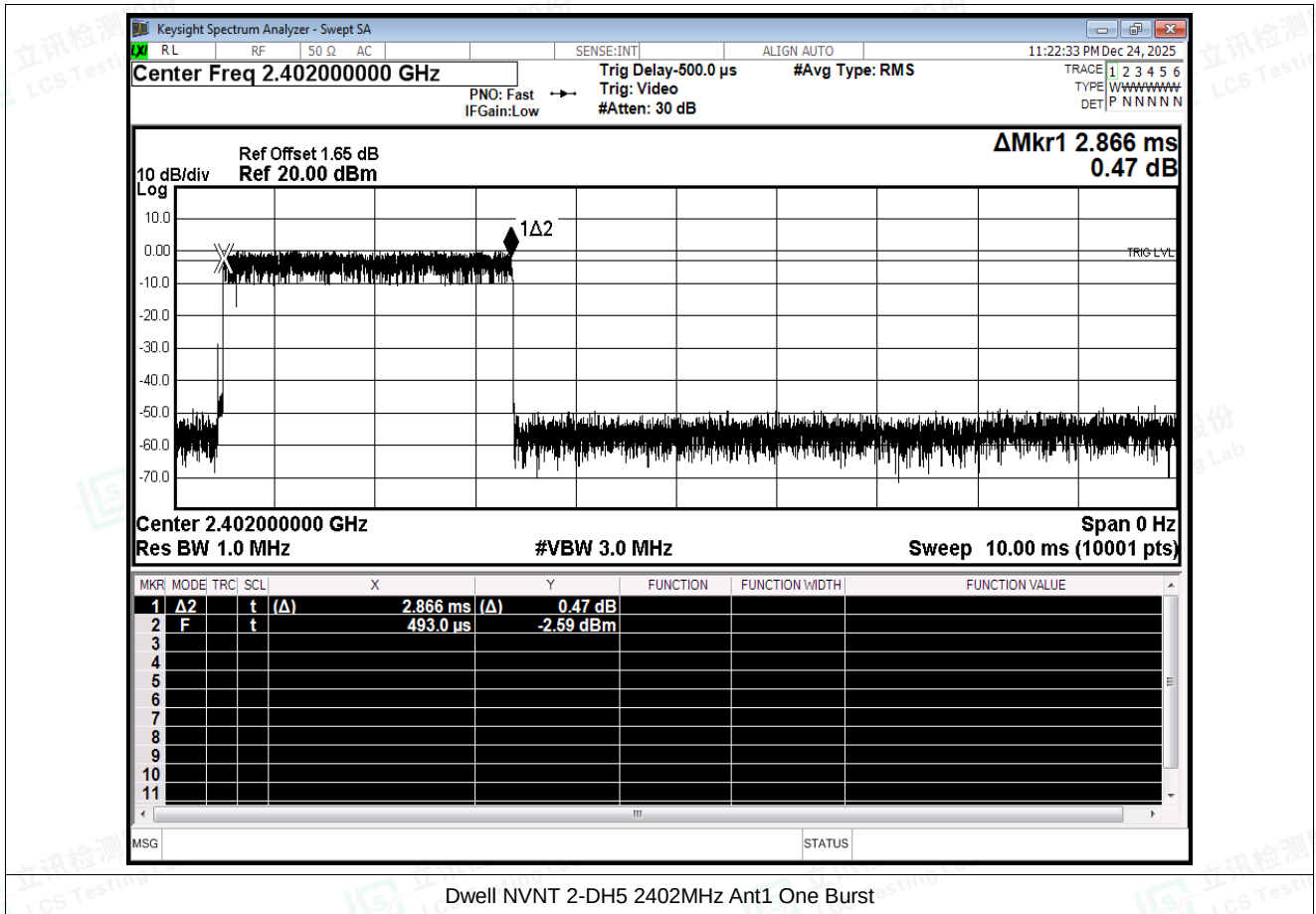
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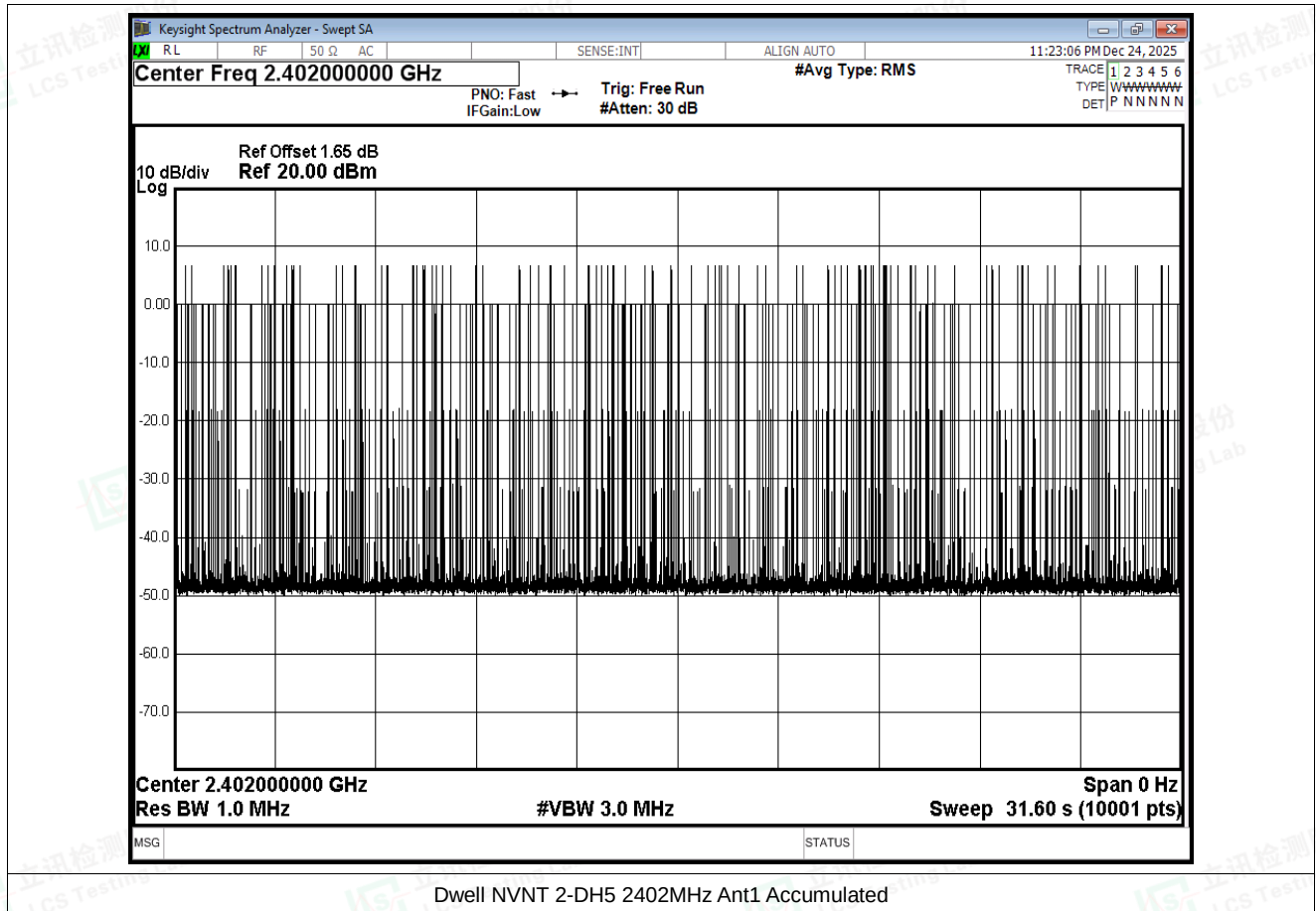


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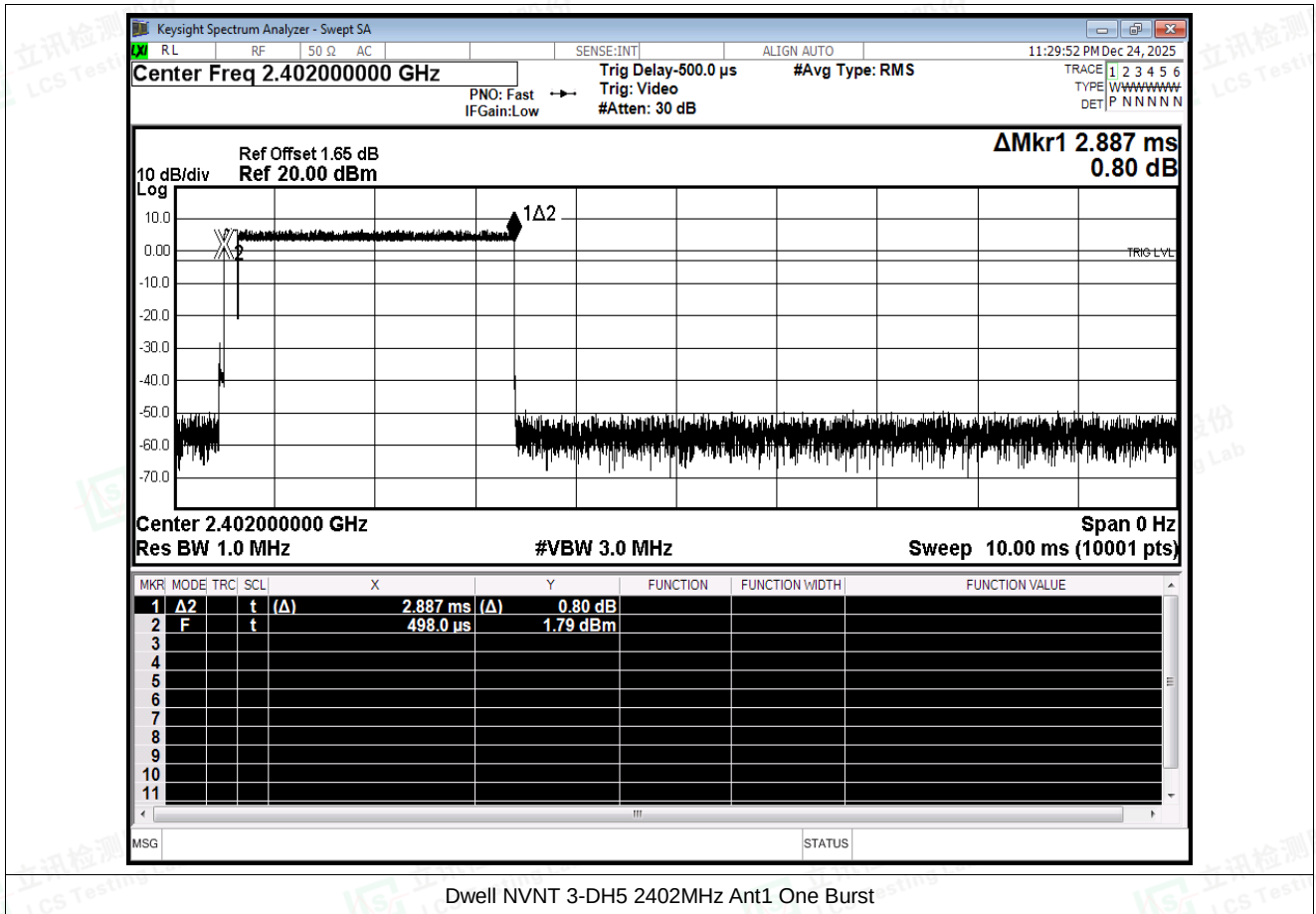


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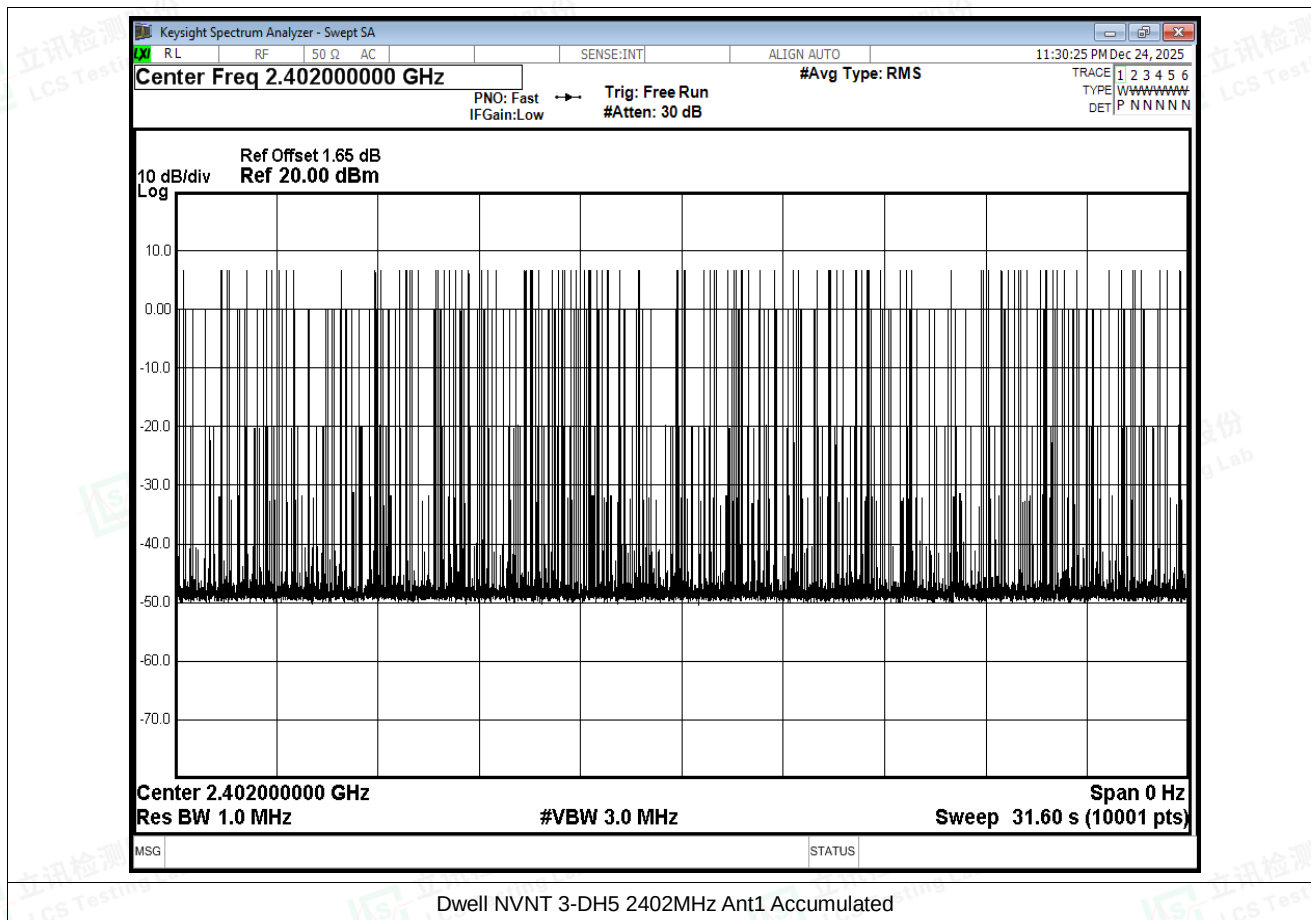
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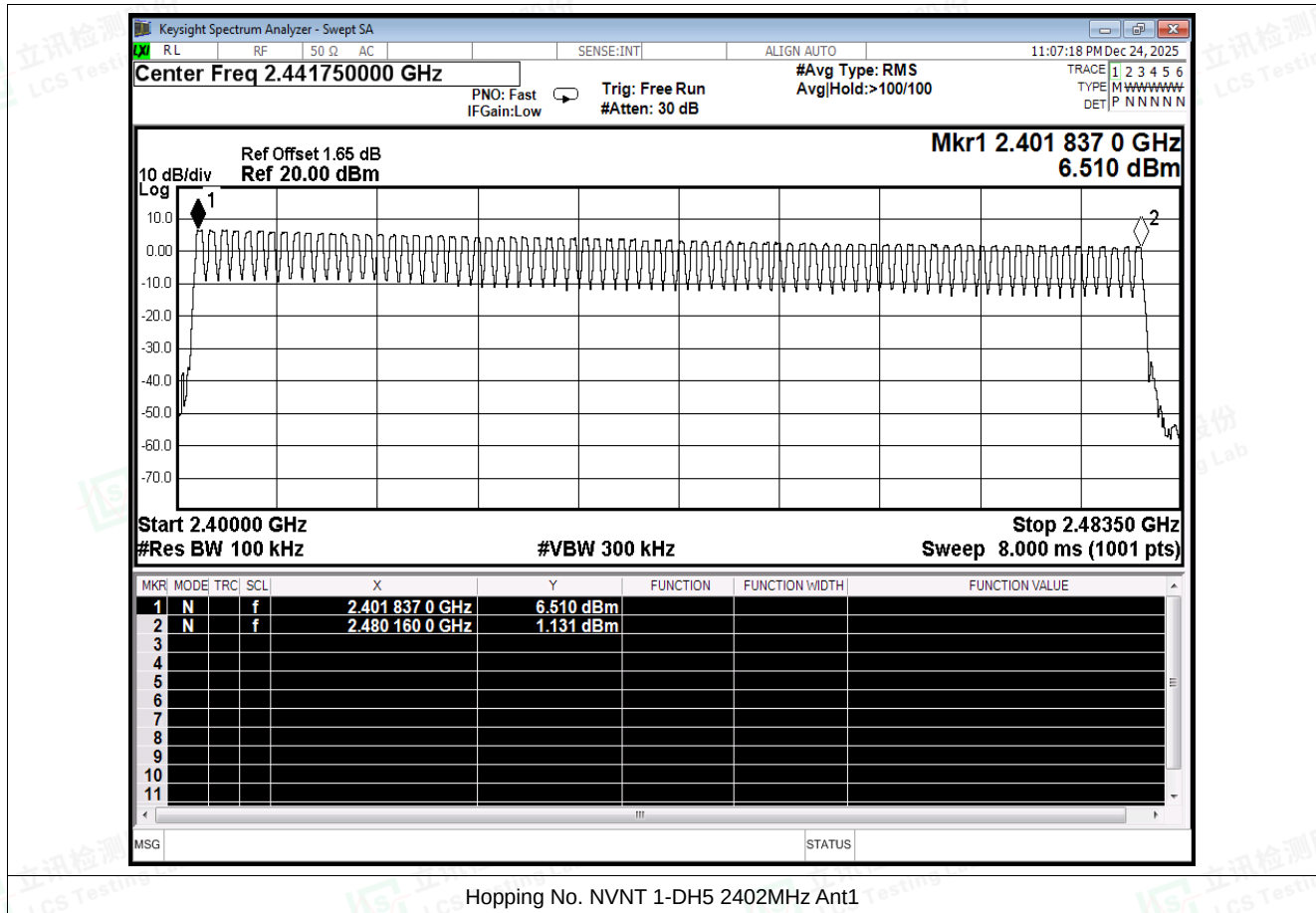
A.5 Number of Hopping Channel

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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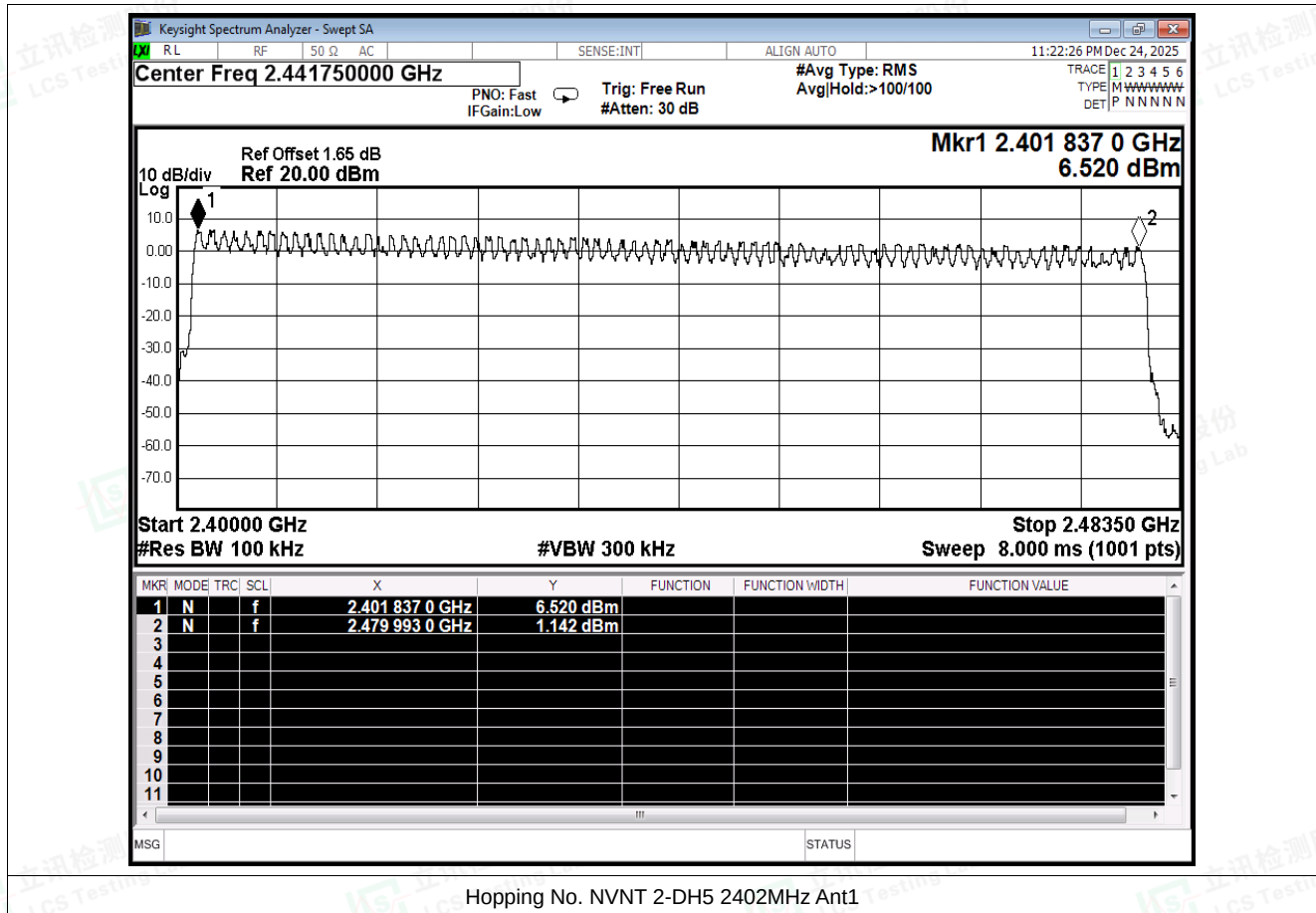
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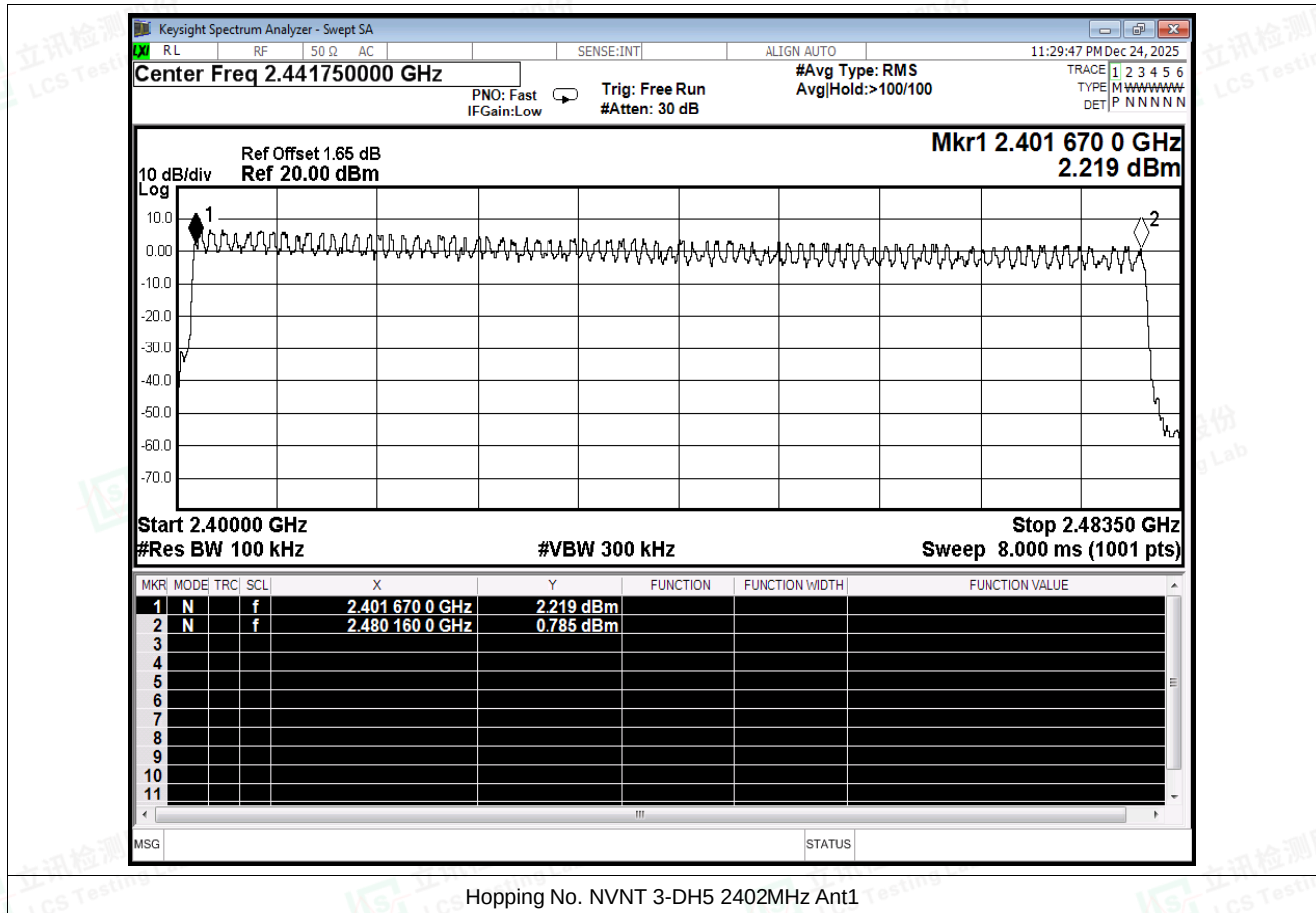
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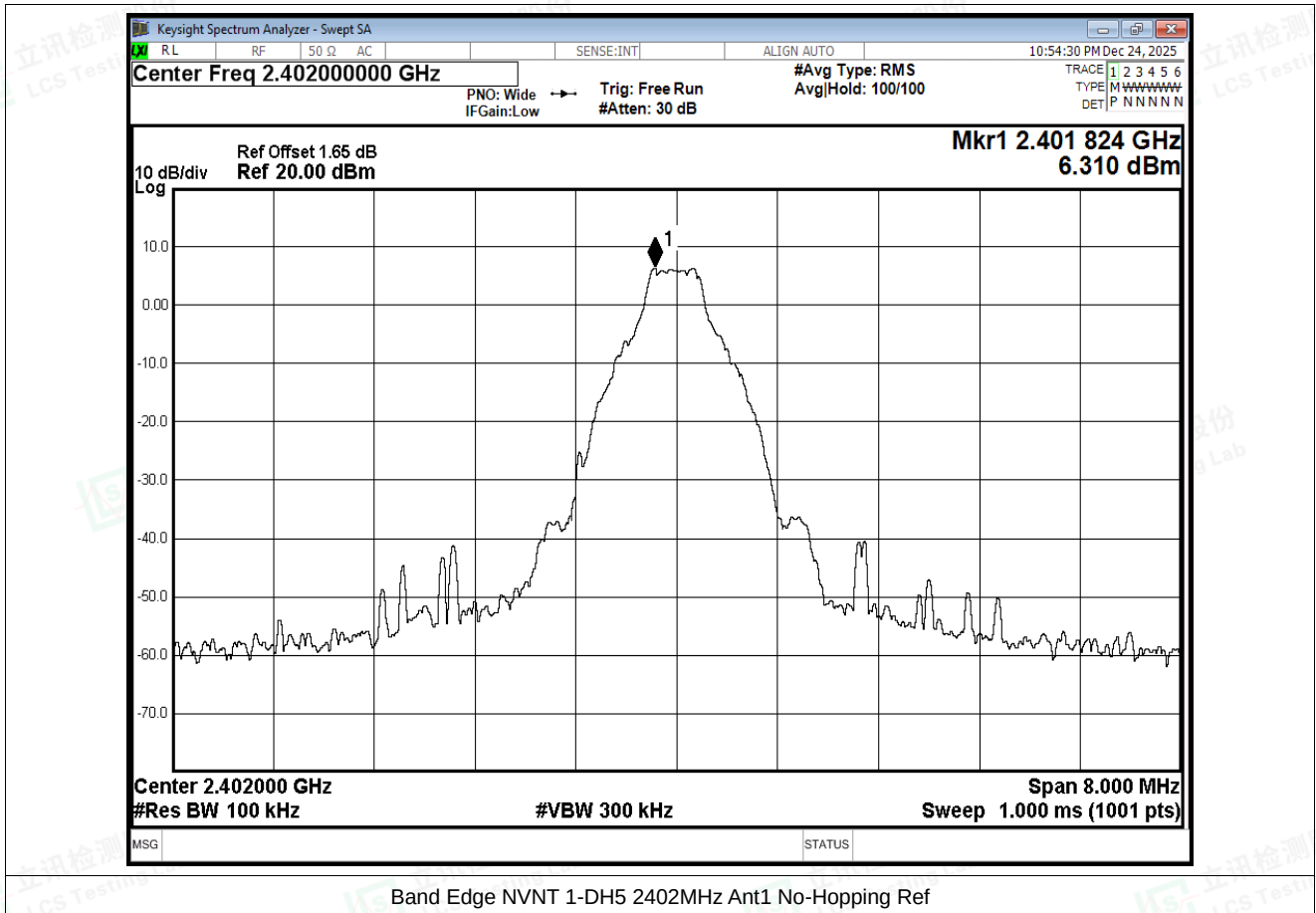
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-50.54	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.46	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.21	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.61	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-49.8	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-57.51	-20	Pass





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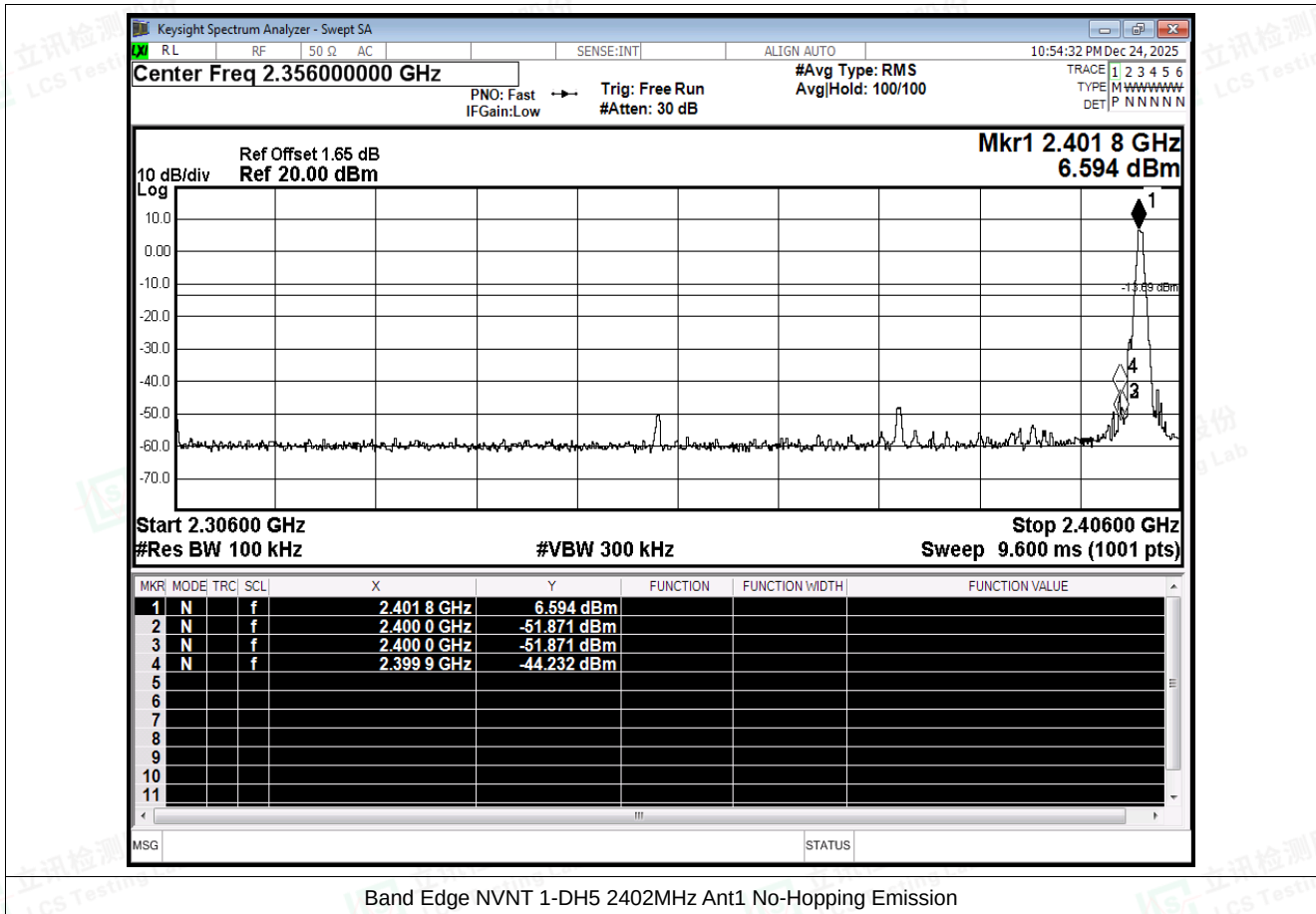
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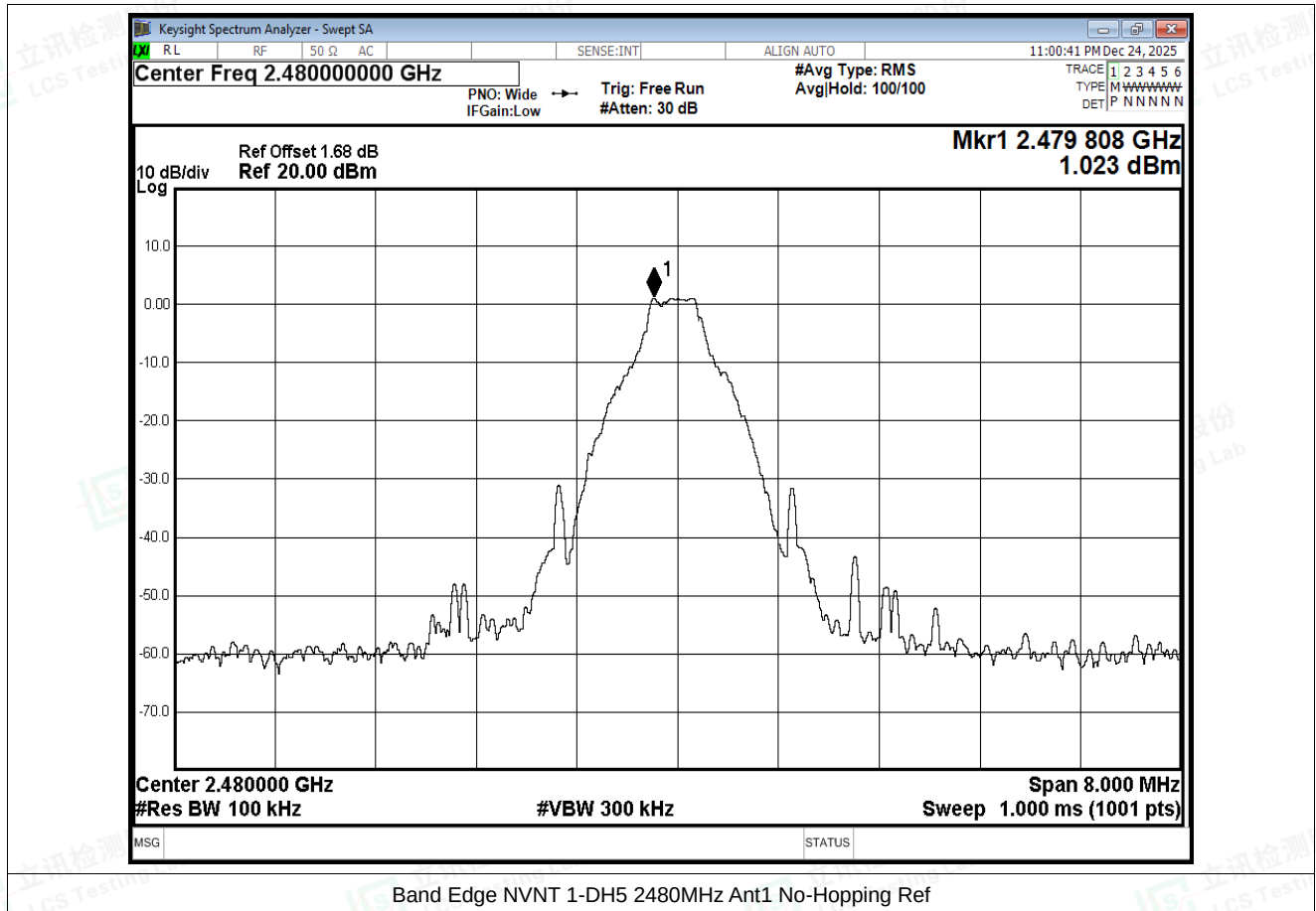
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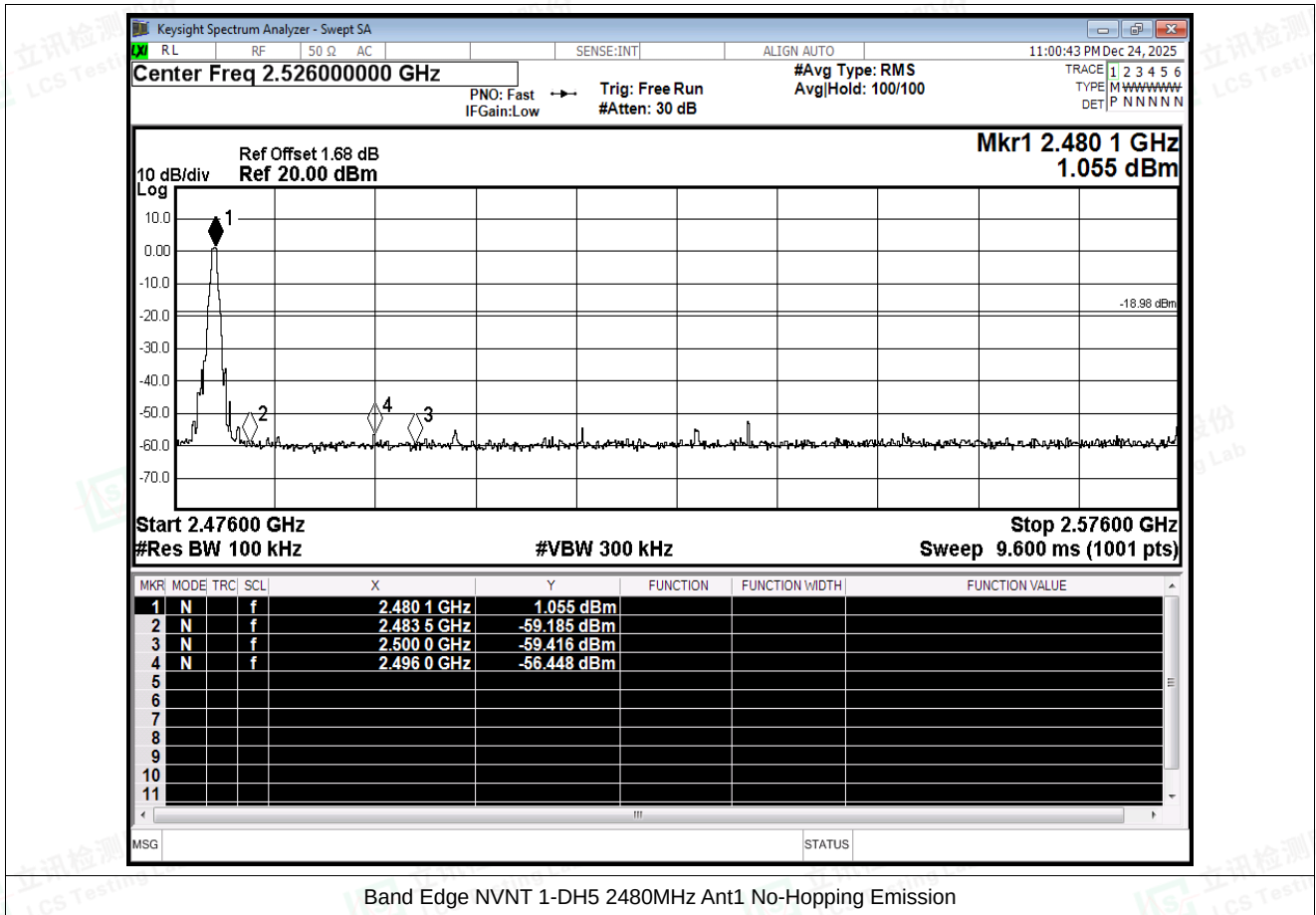


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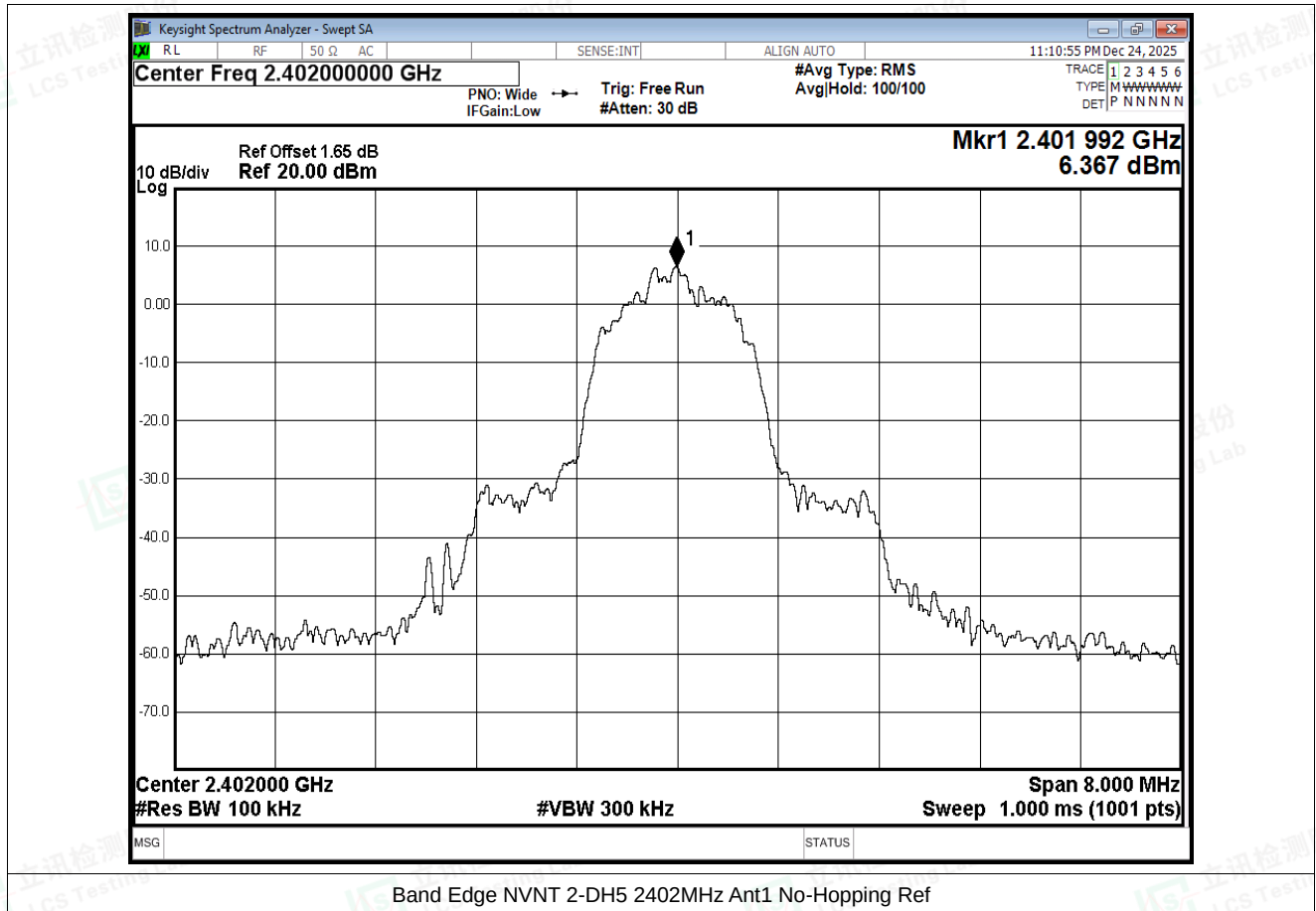
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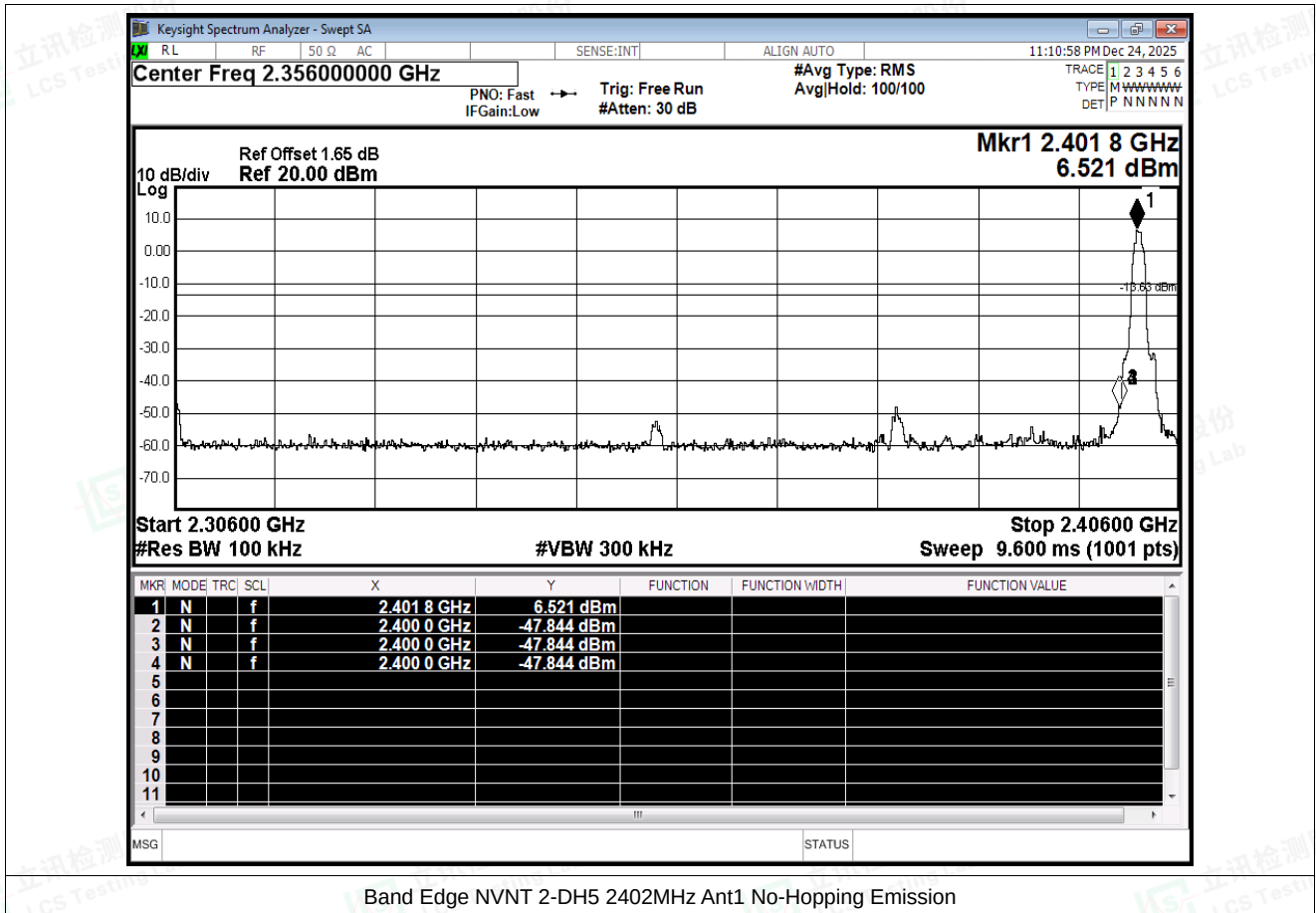
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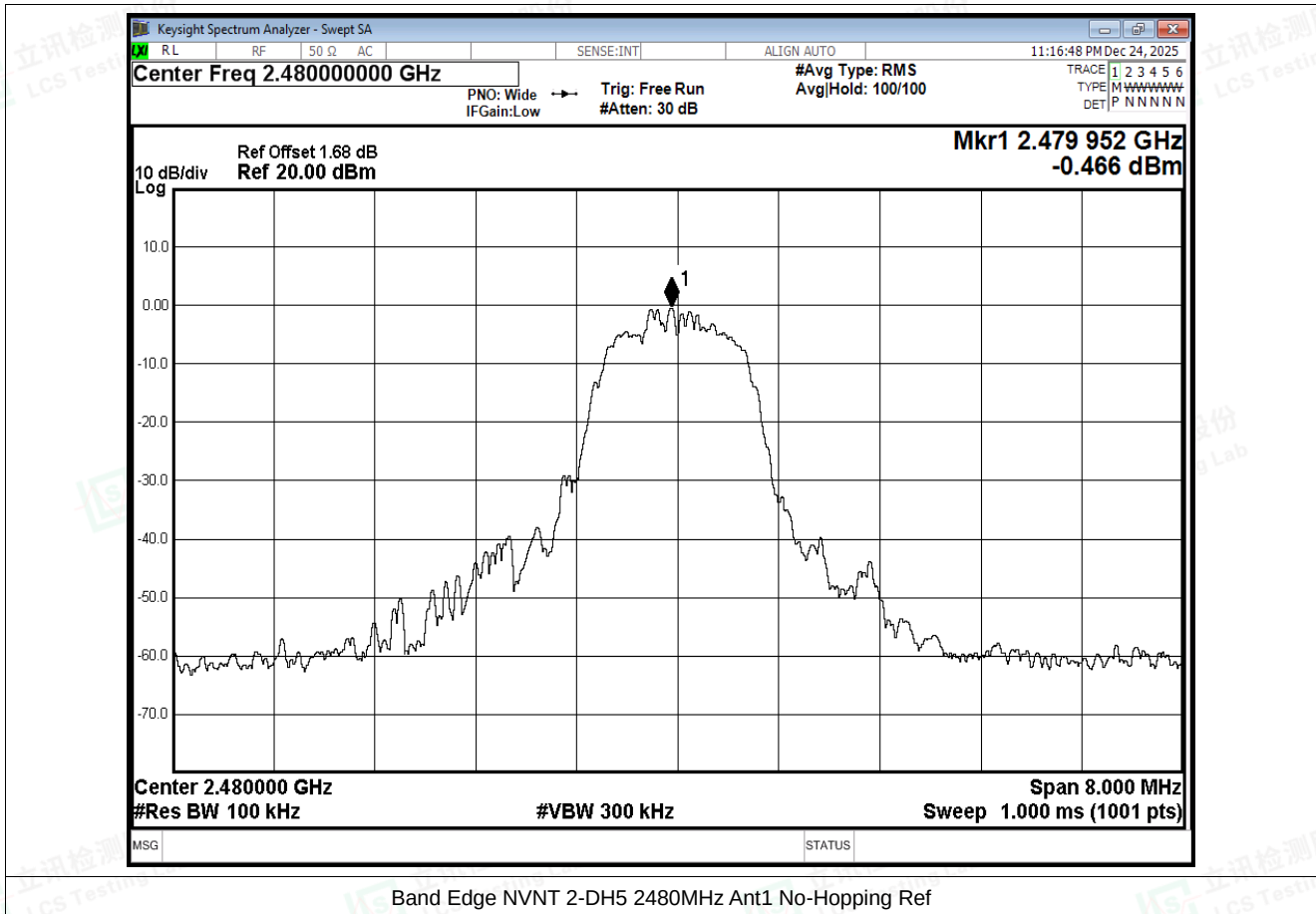
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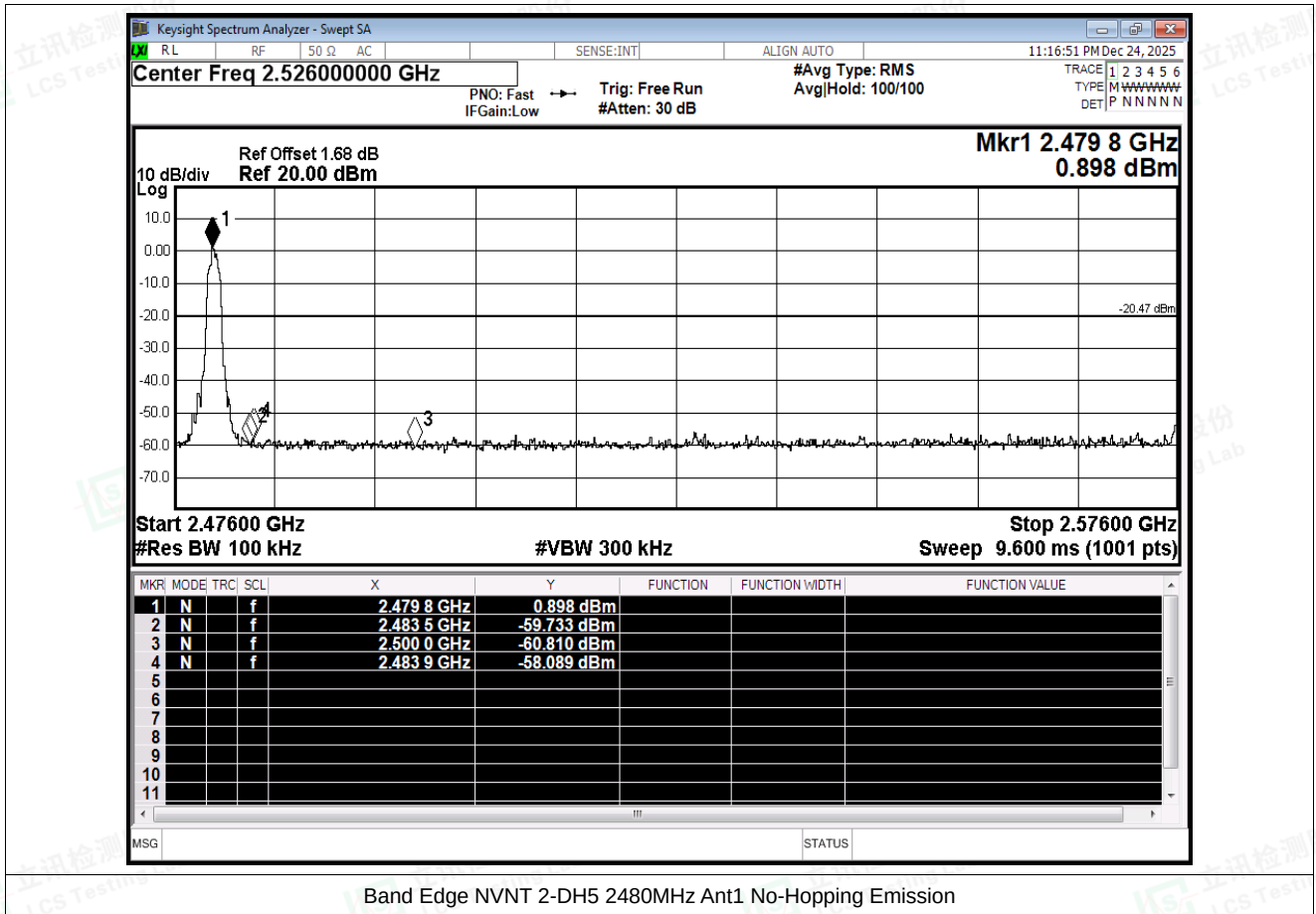


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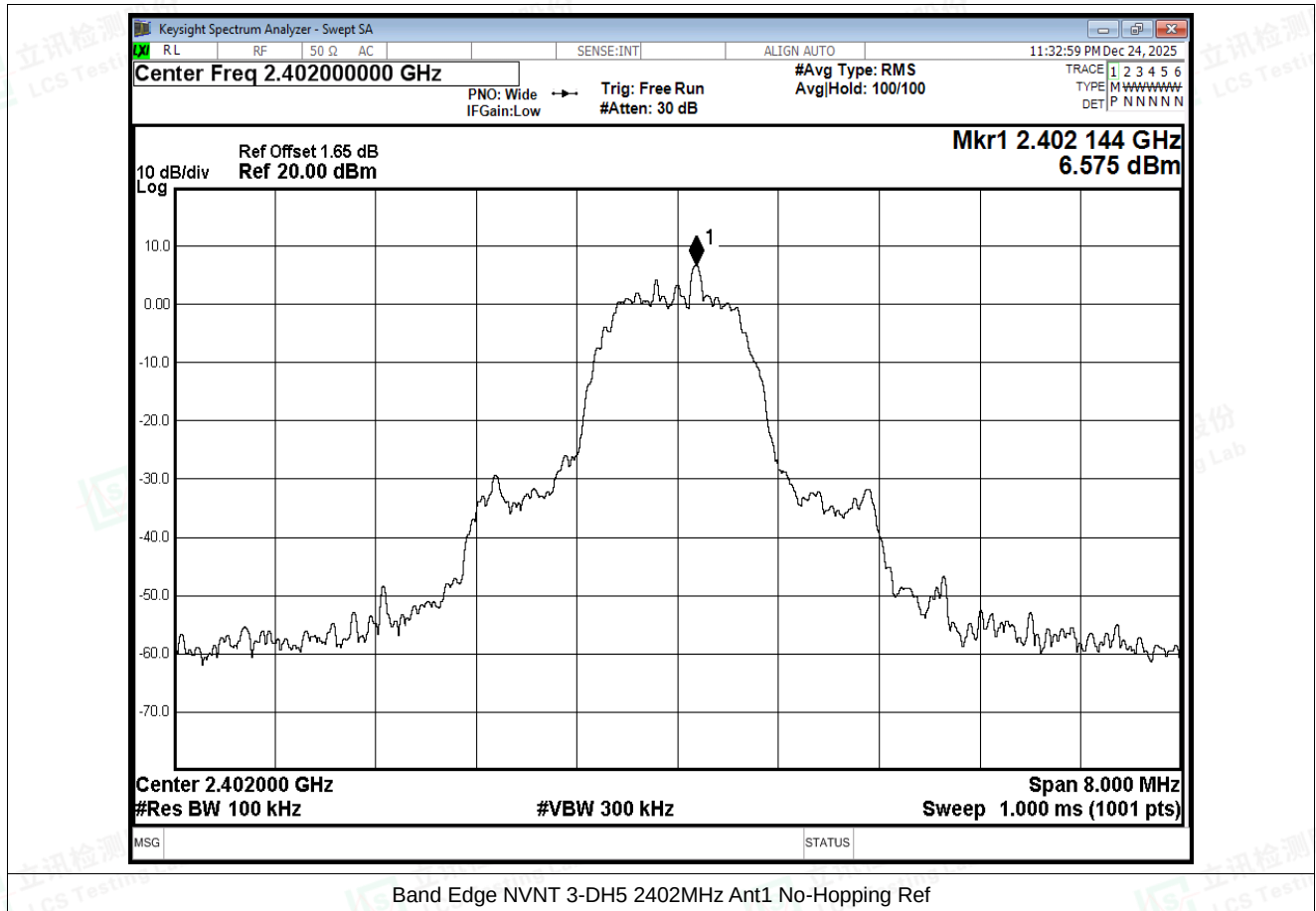
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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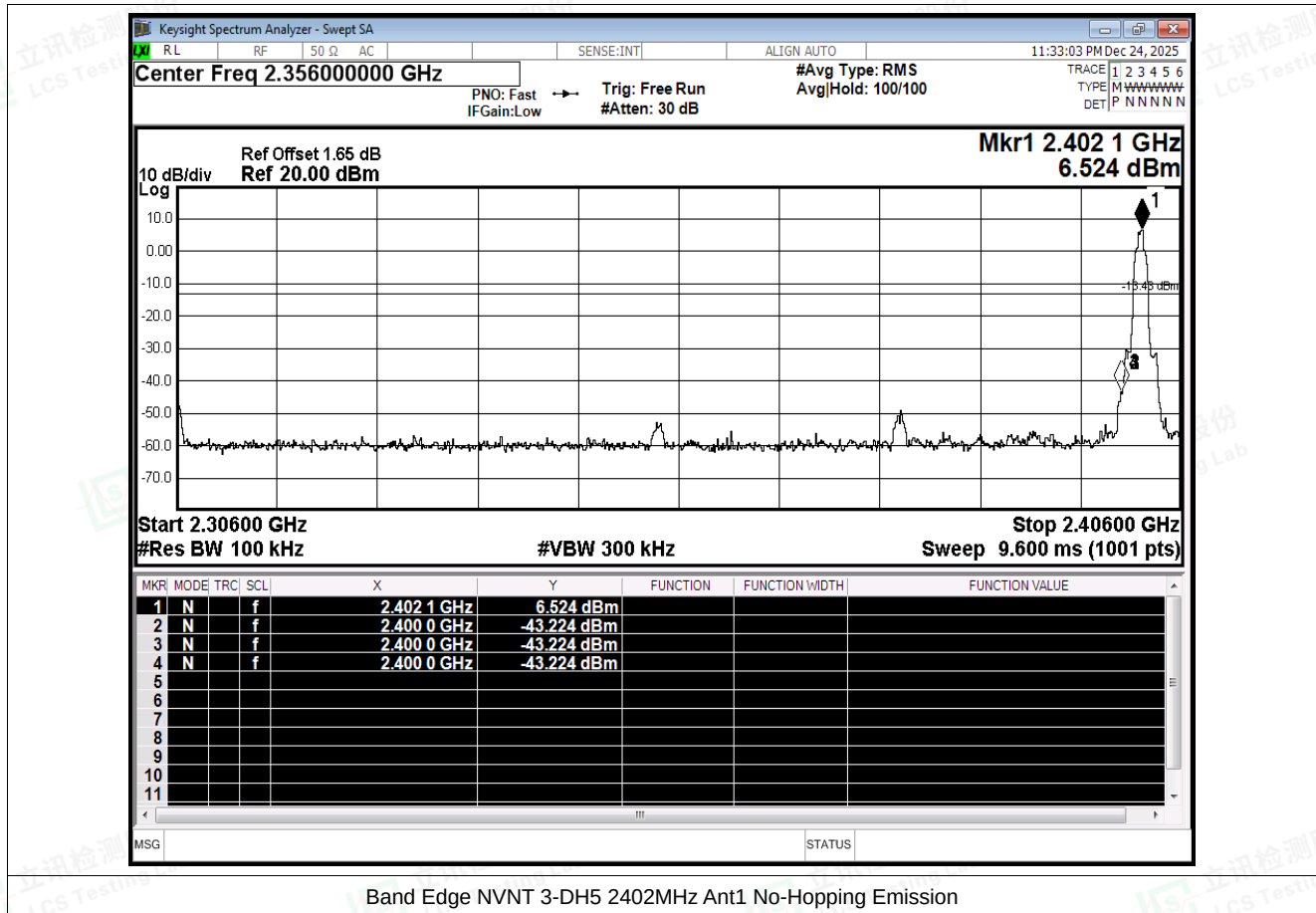
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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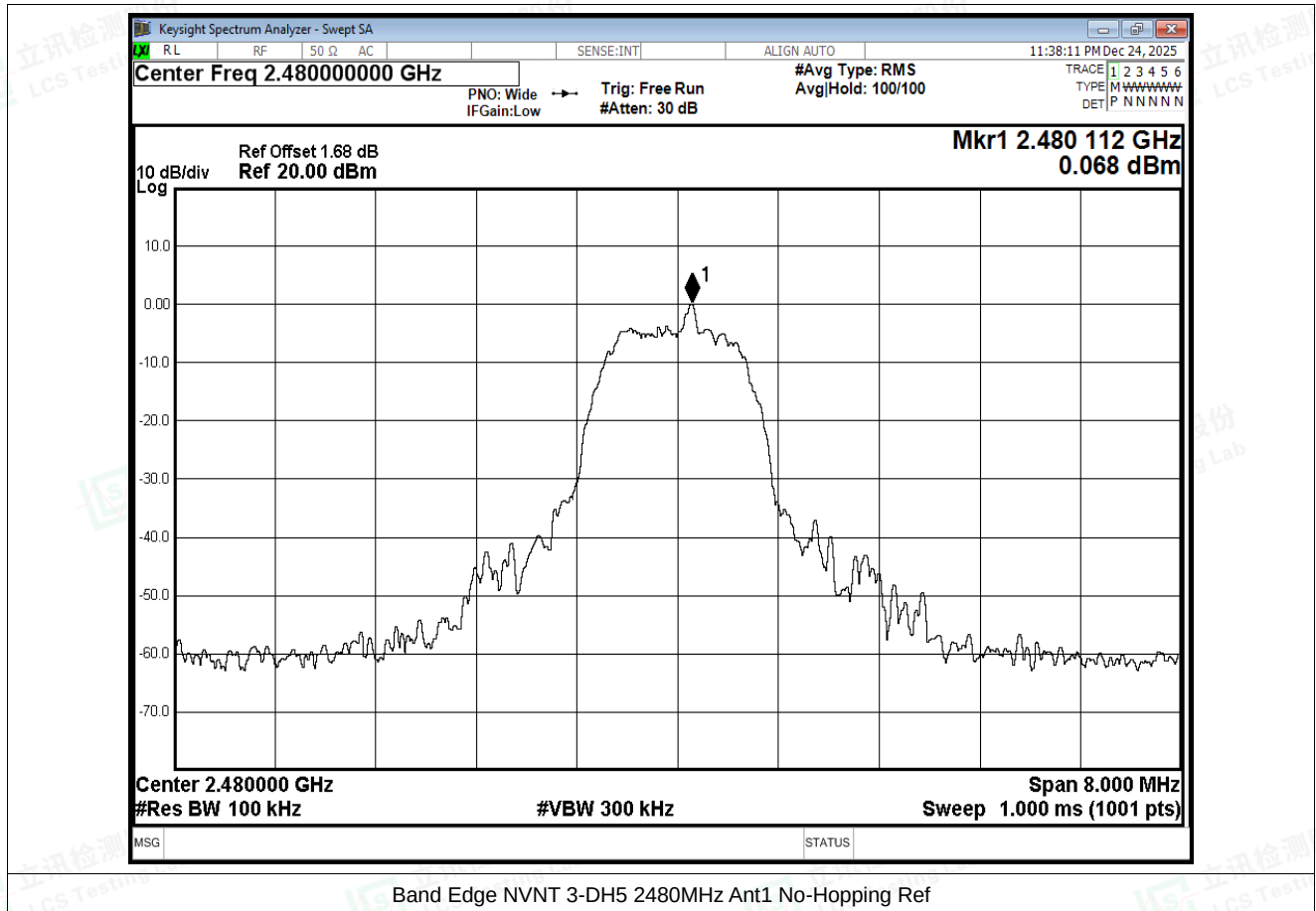
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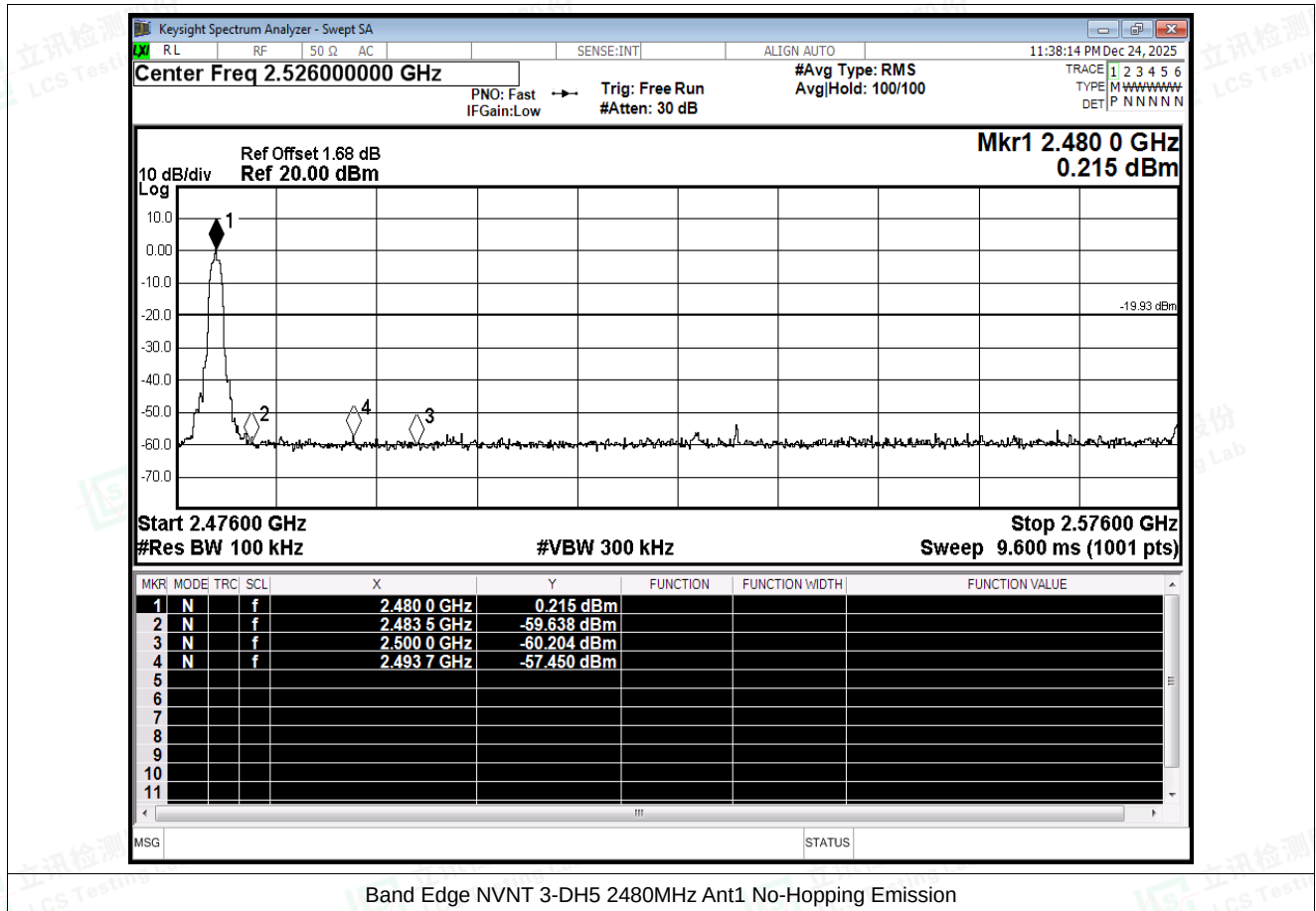
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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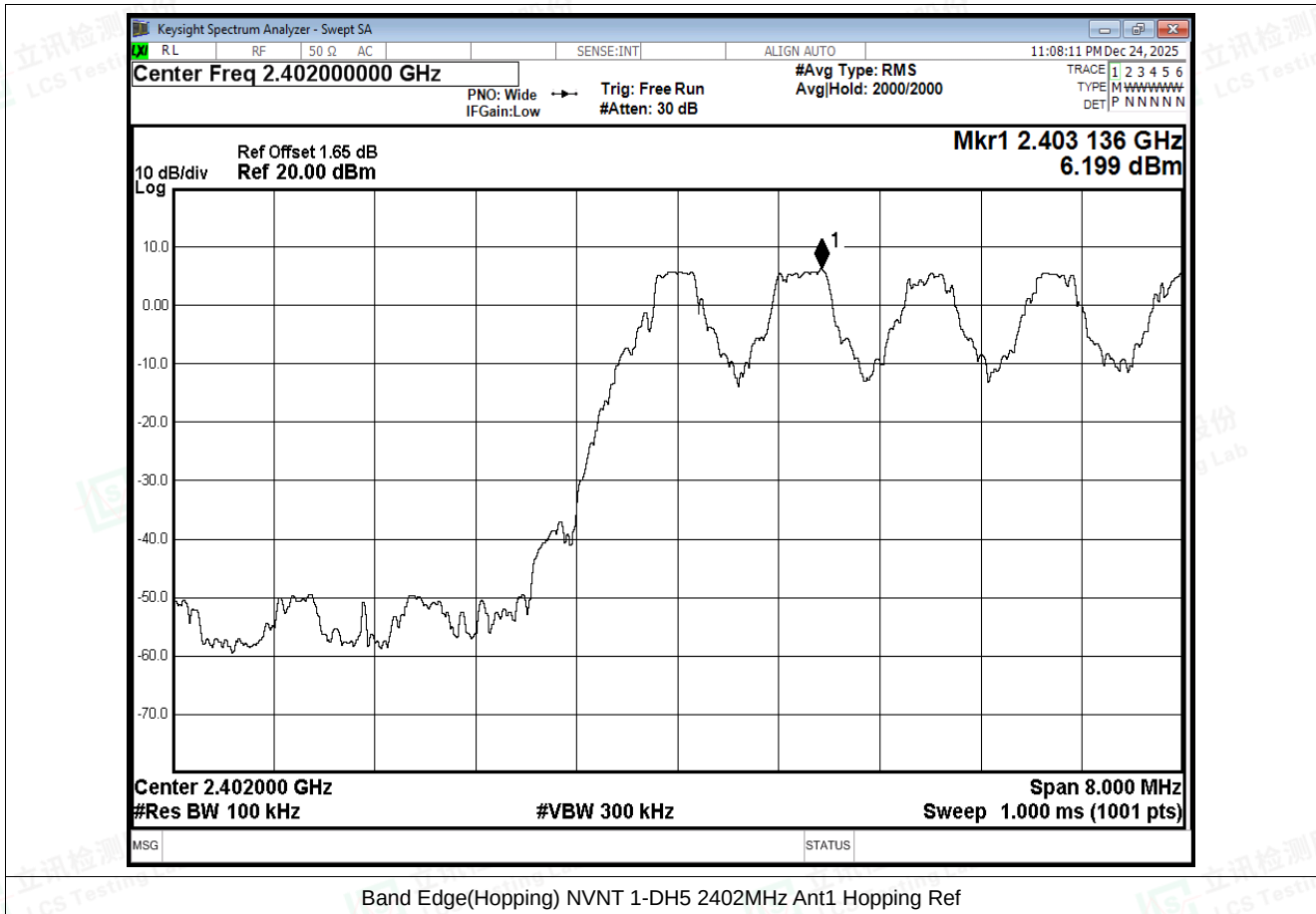
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-48.66	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-49.34	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-50.15	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-49.21	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-49.43	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-50.72	-20	Pass





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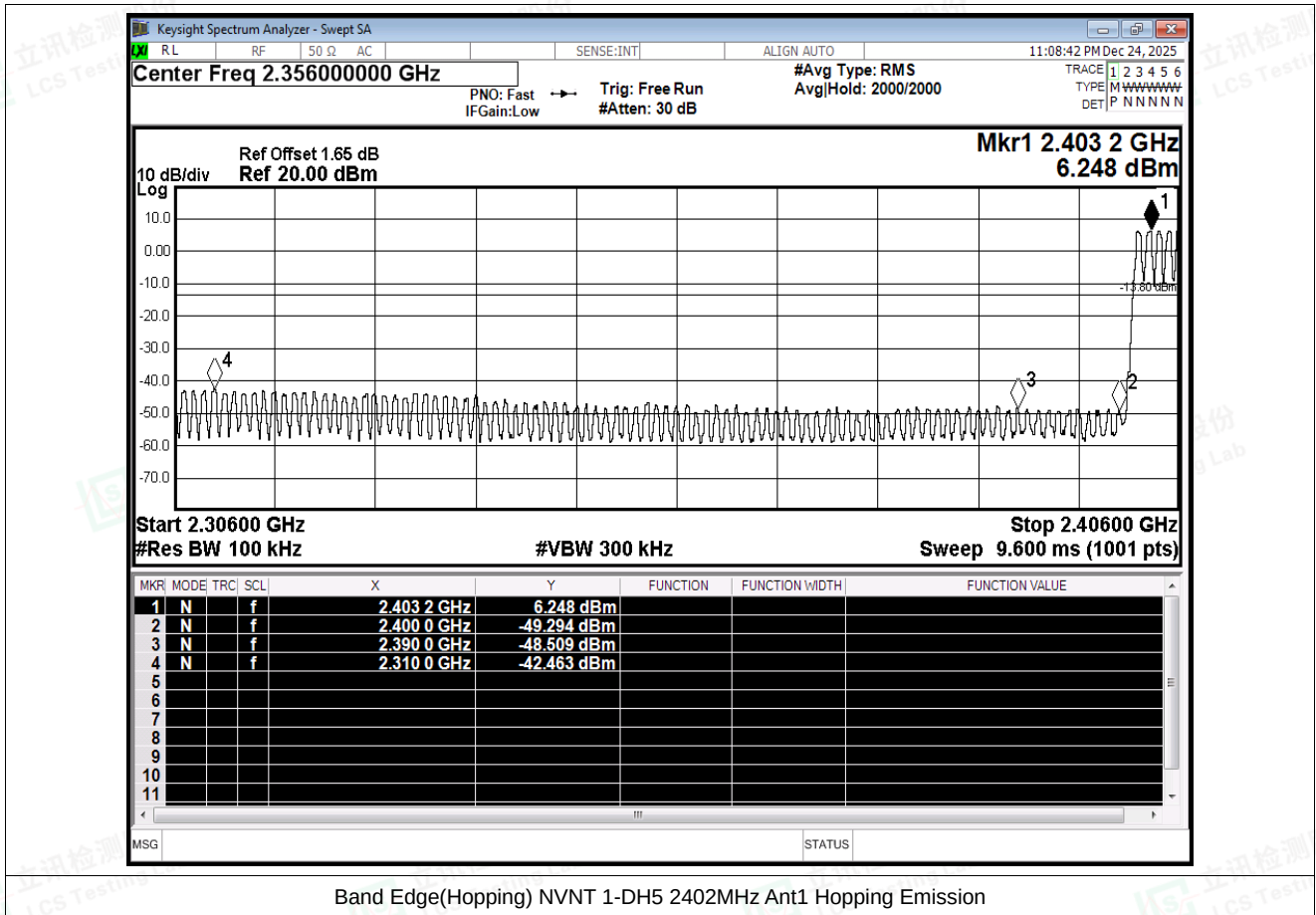


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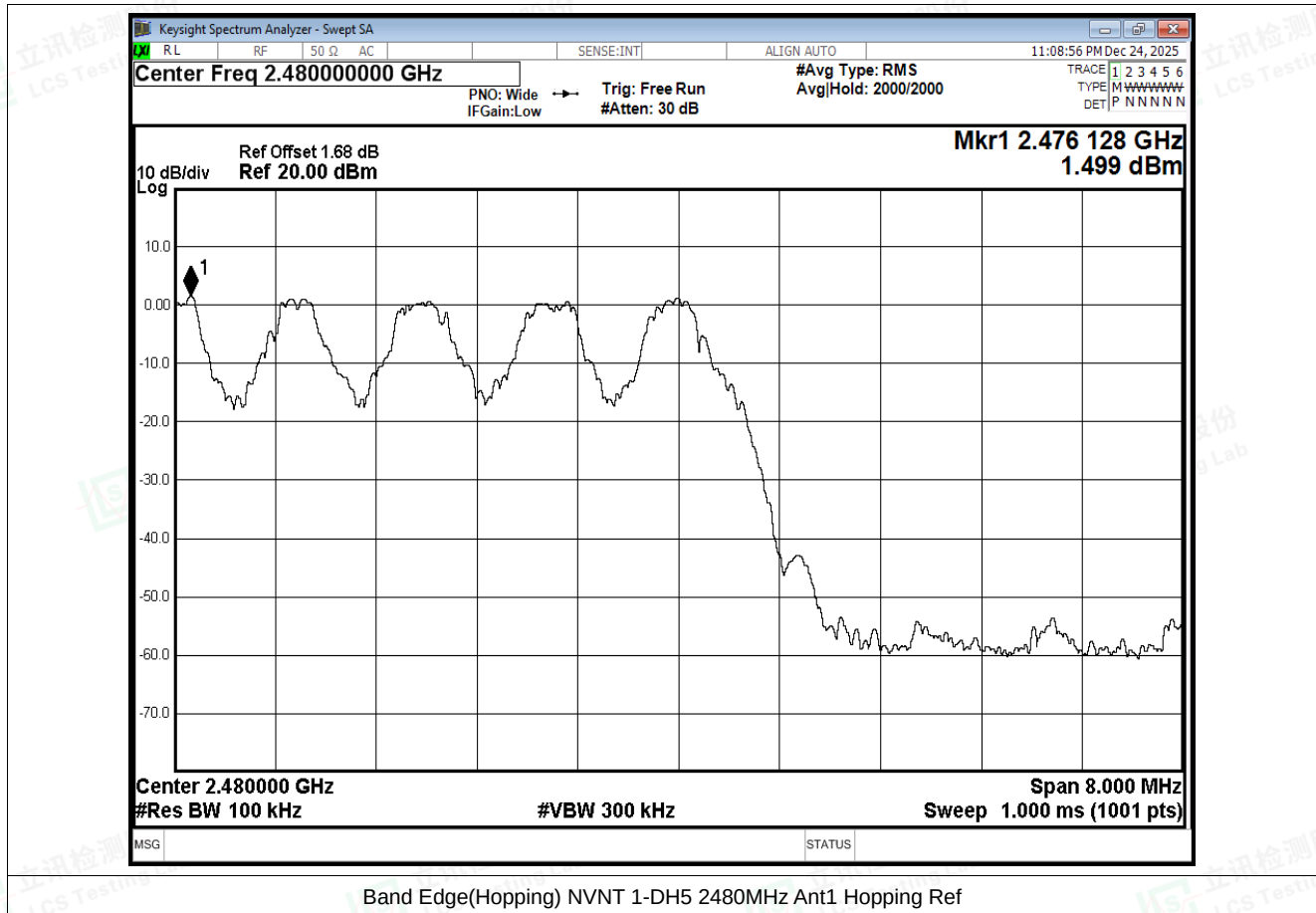
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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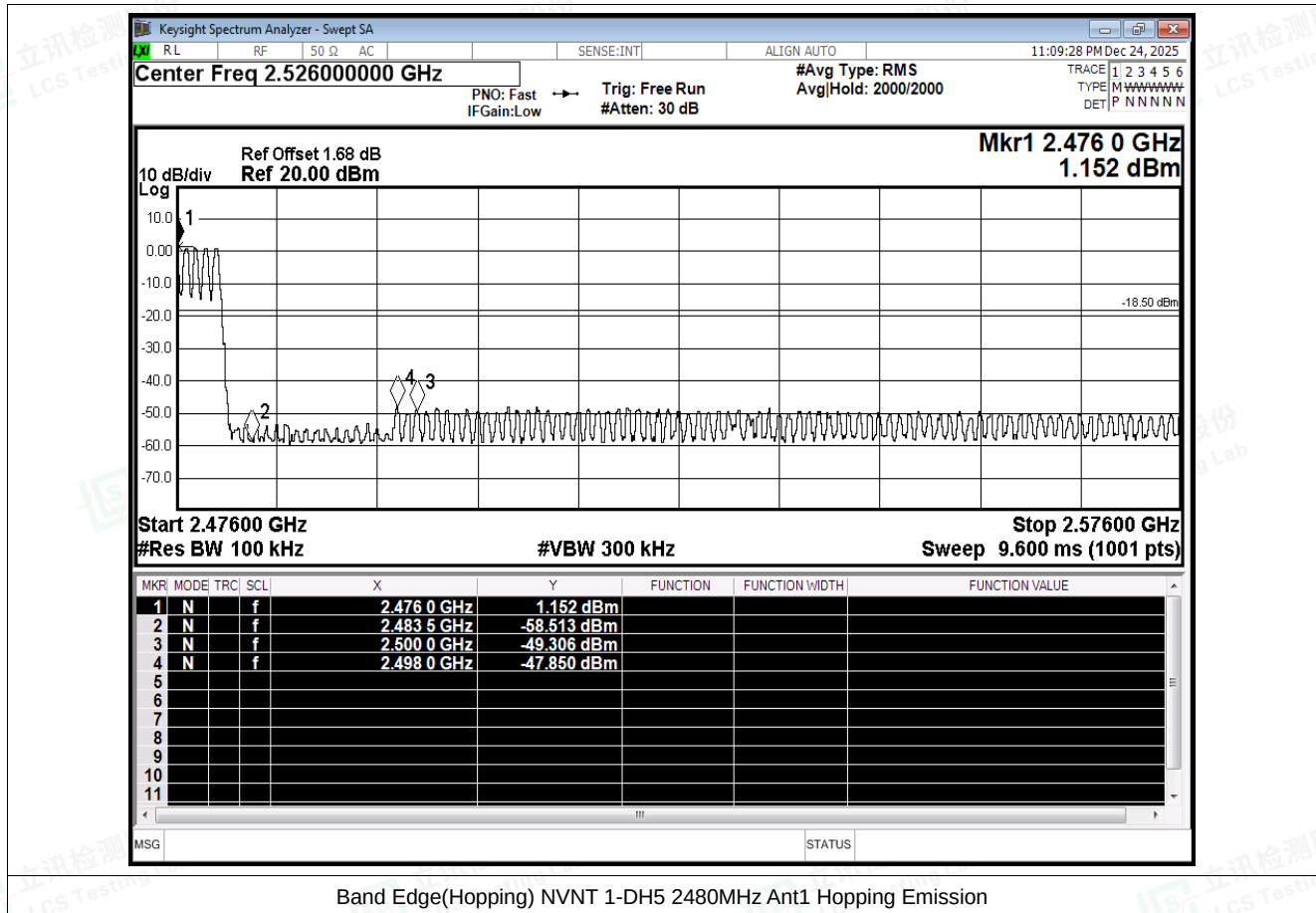
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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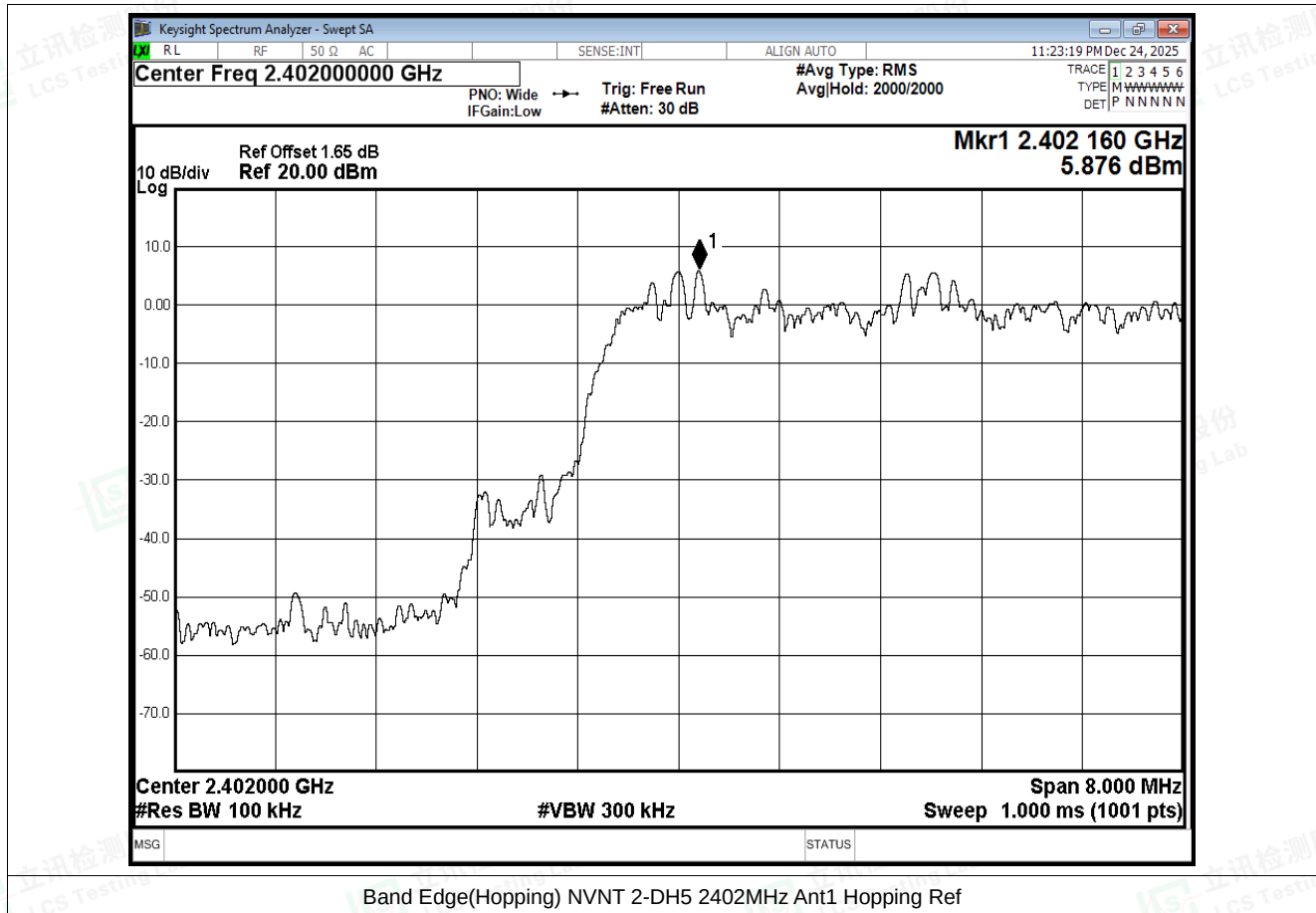
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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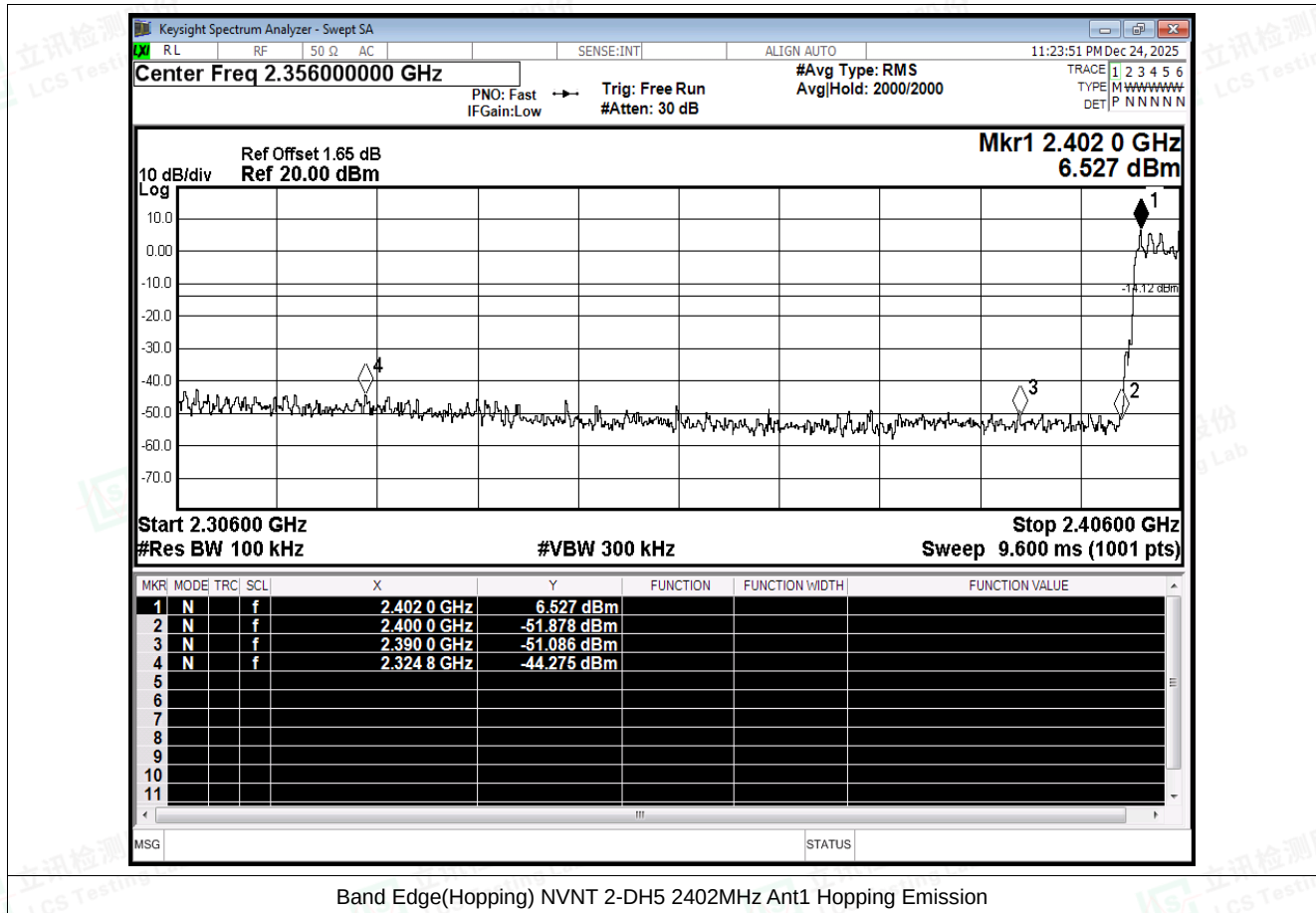
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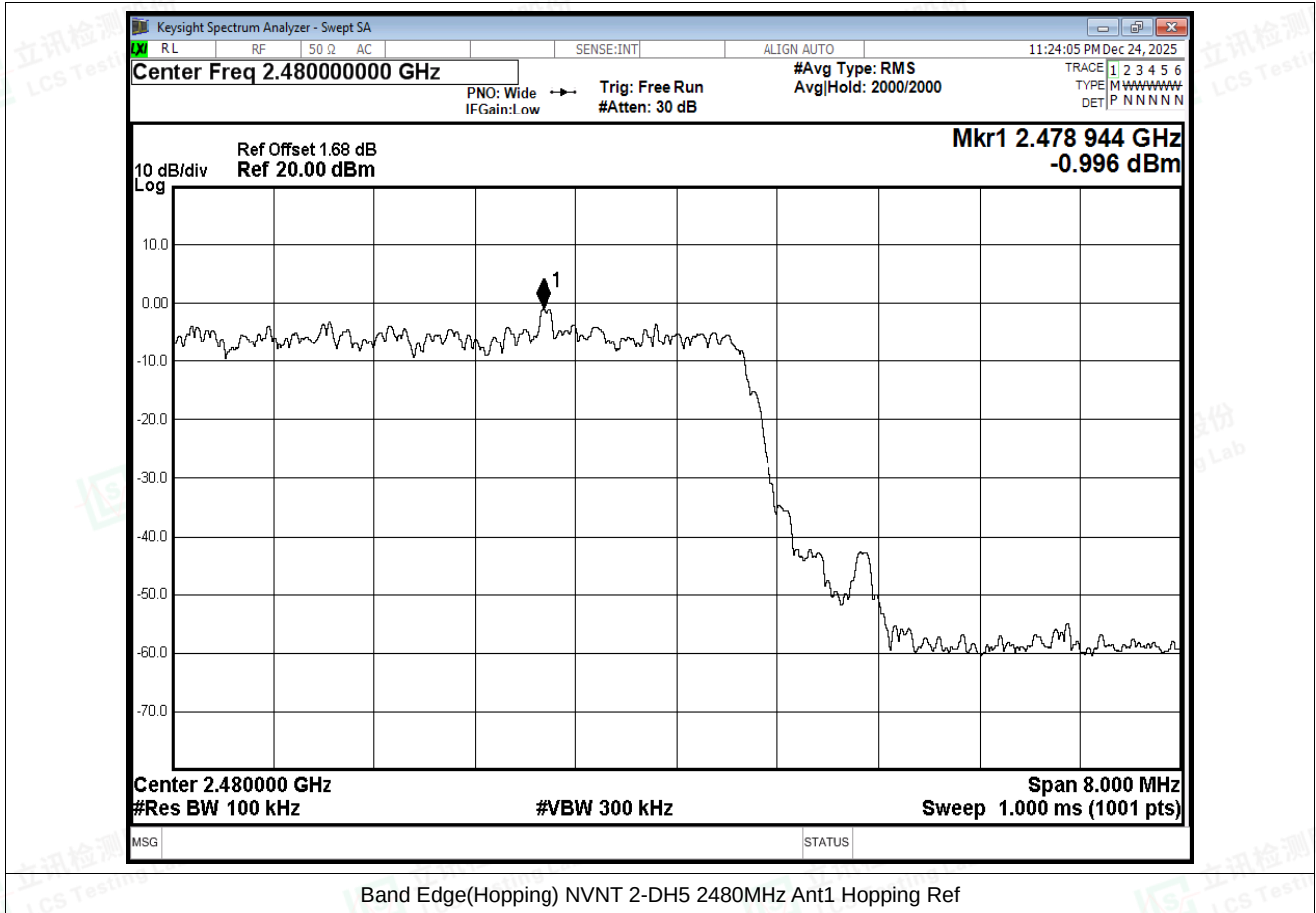
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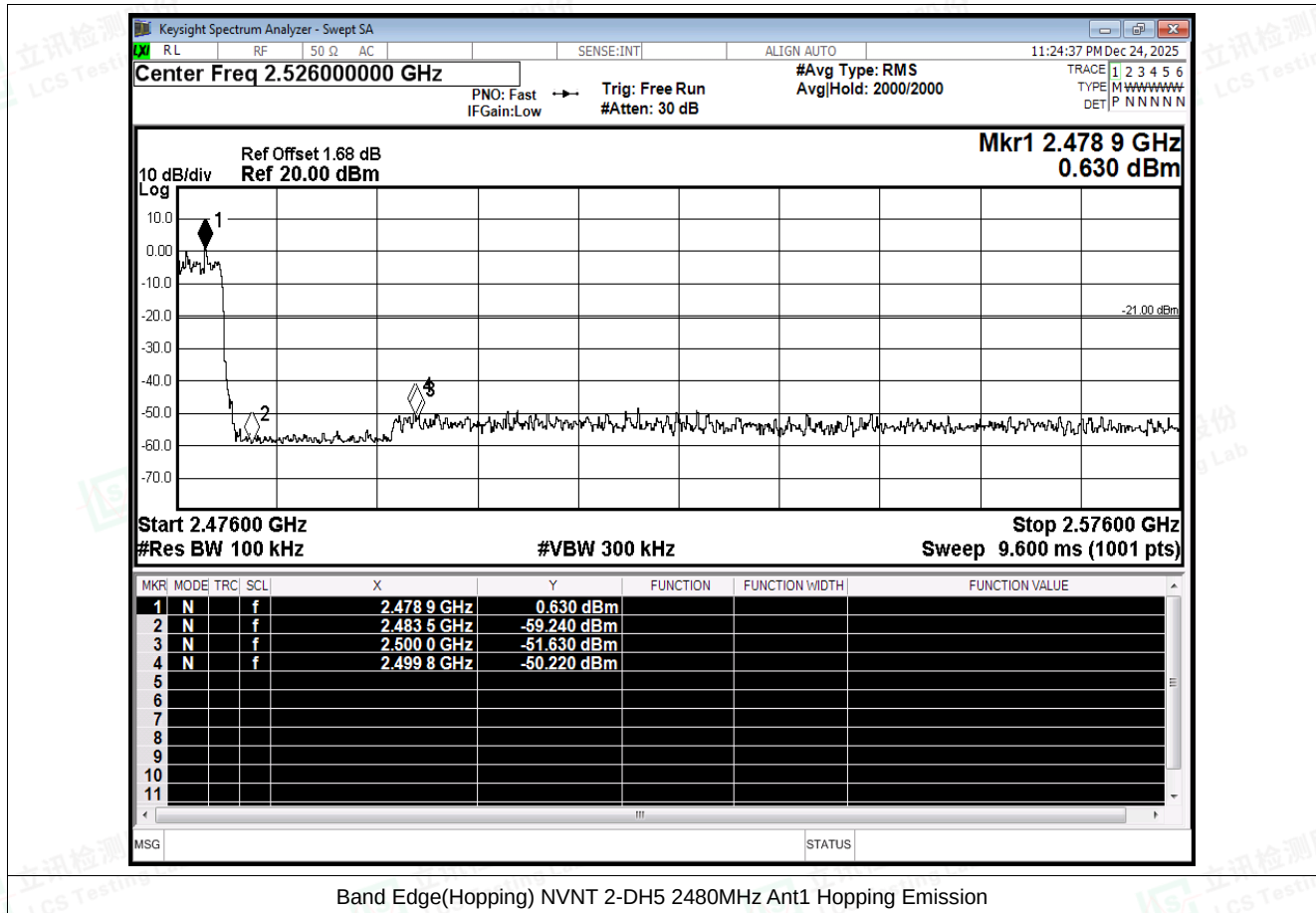
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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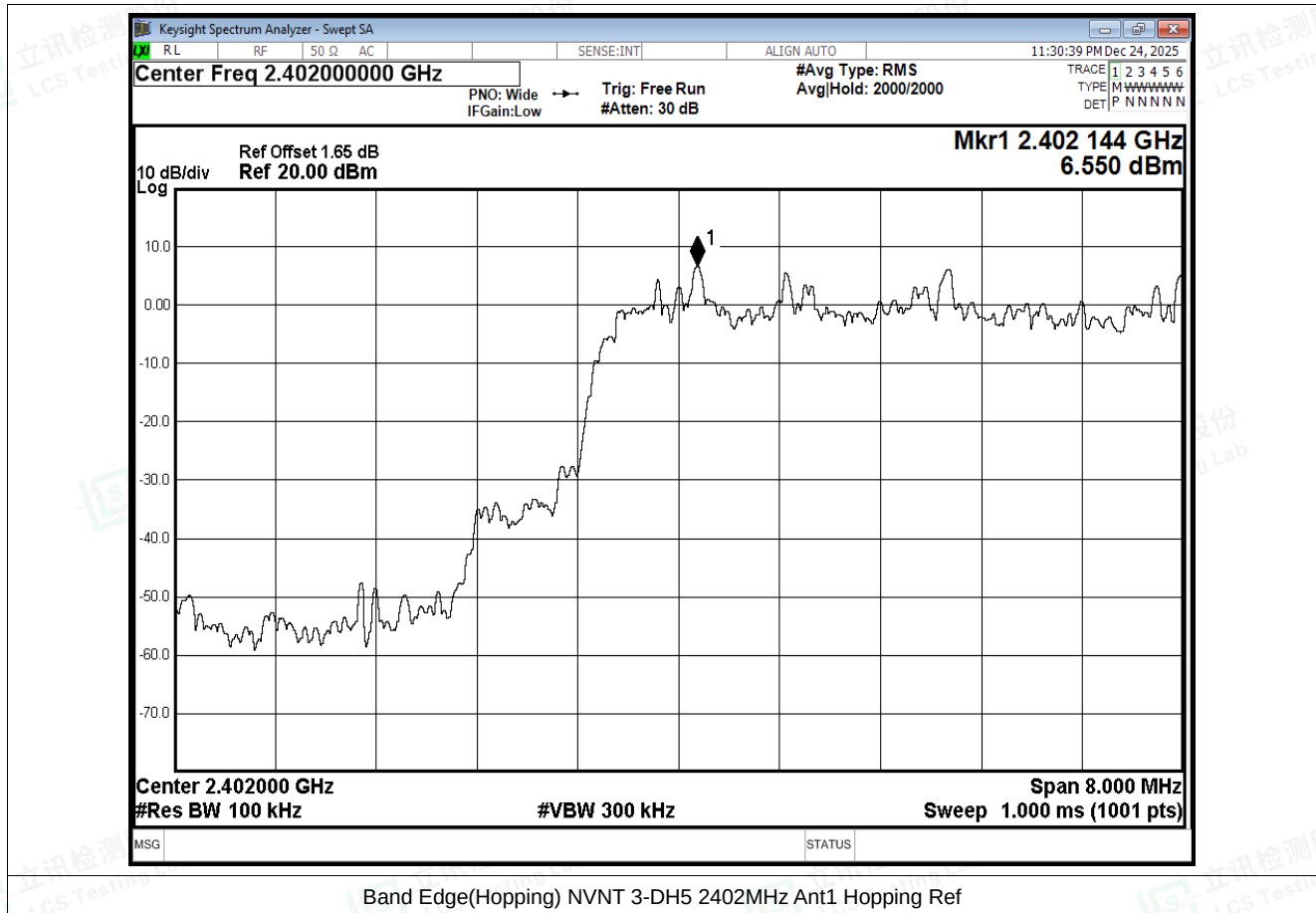
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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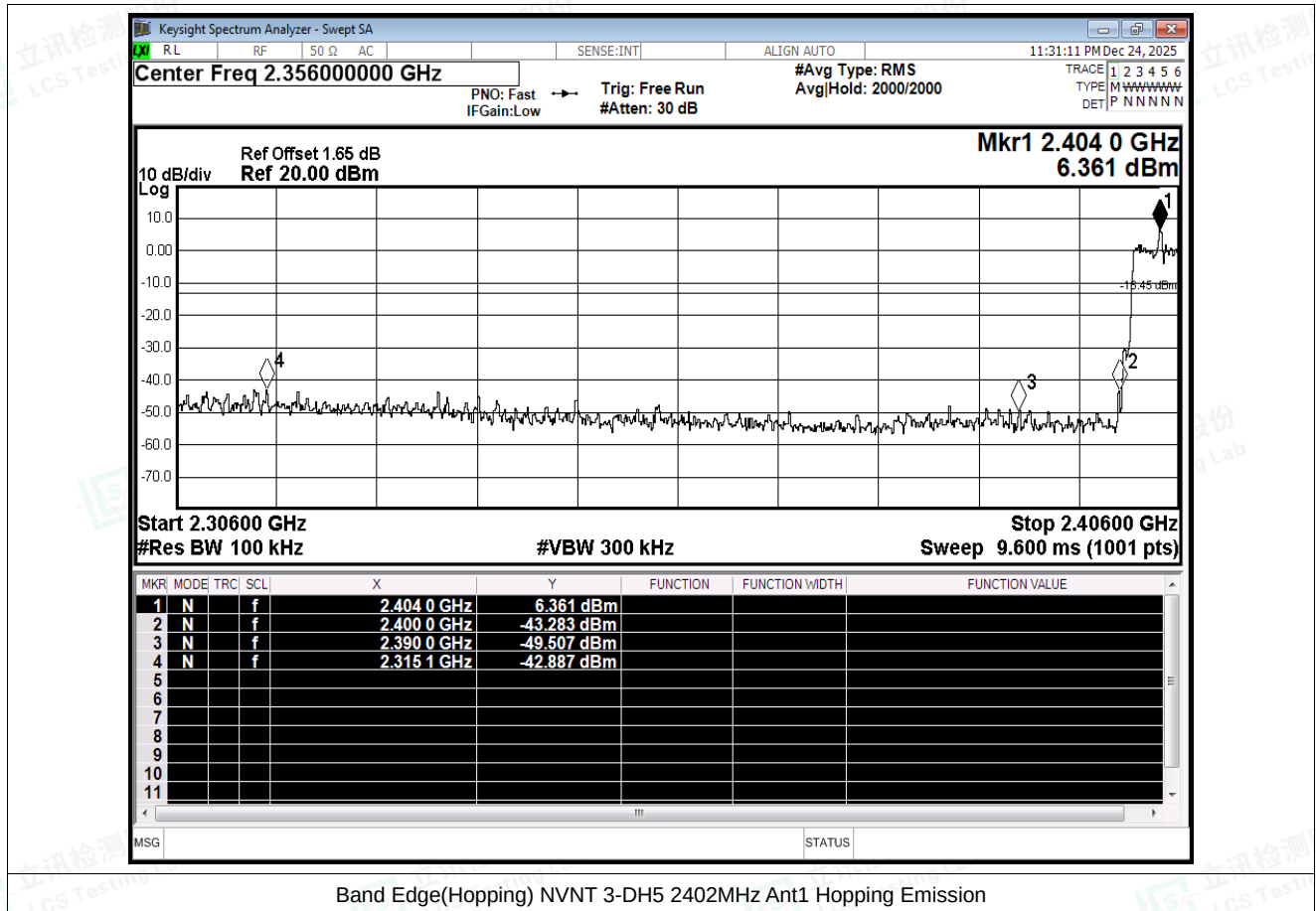
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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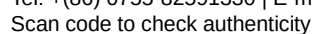
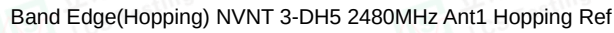


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

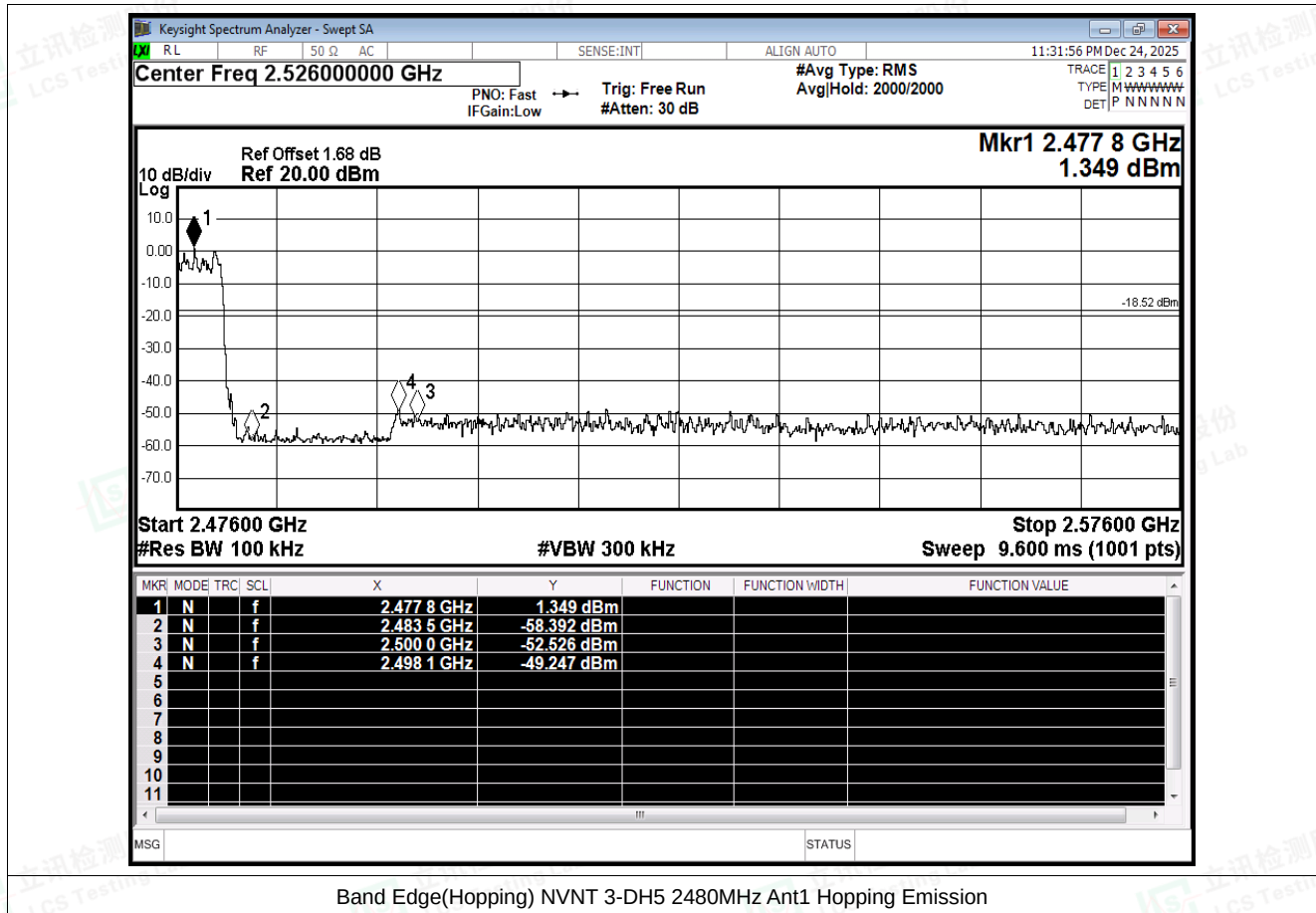
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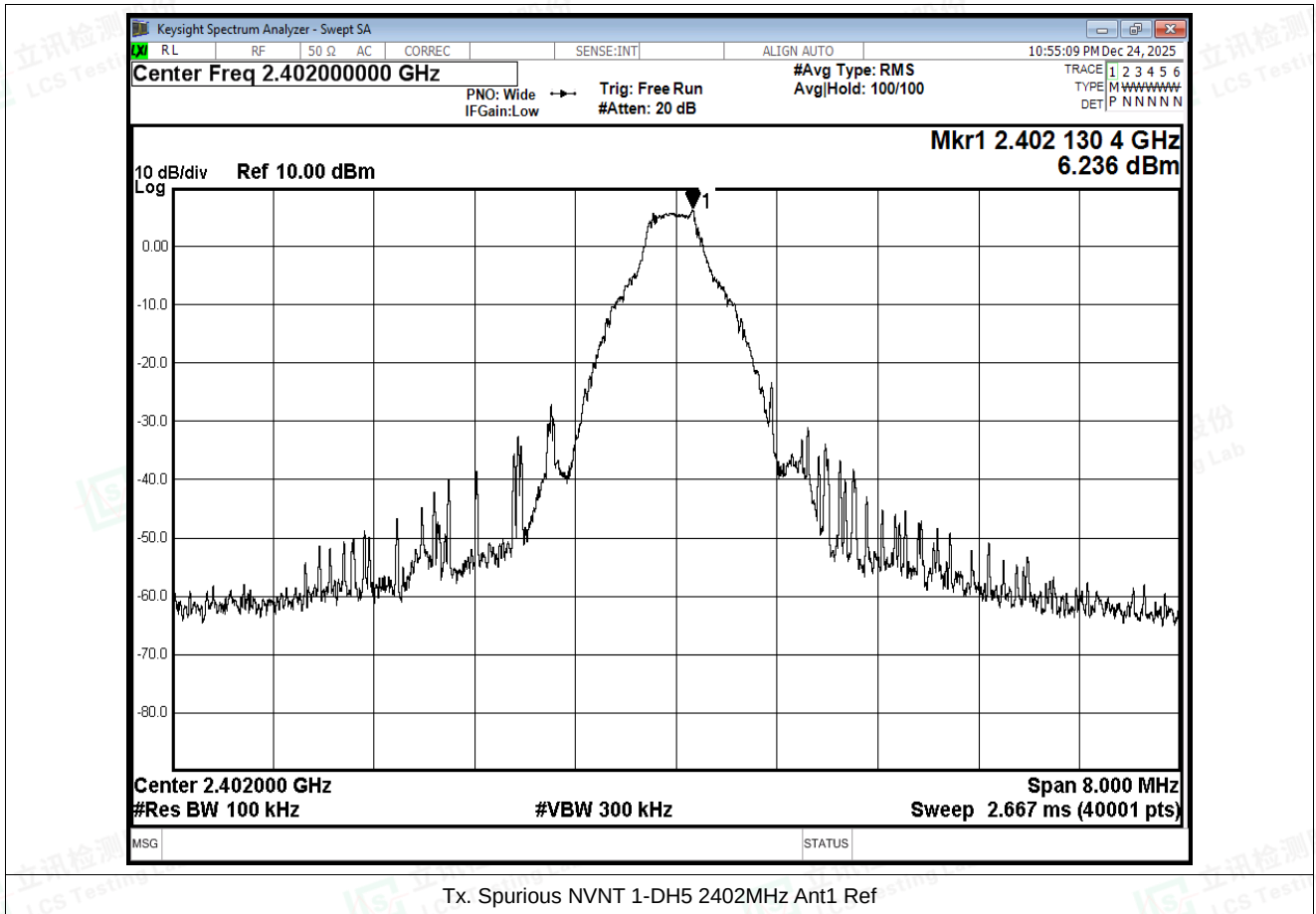
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

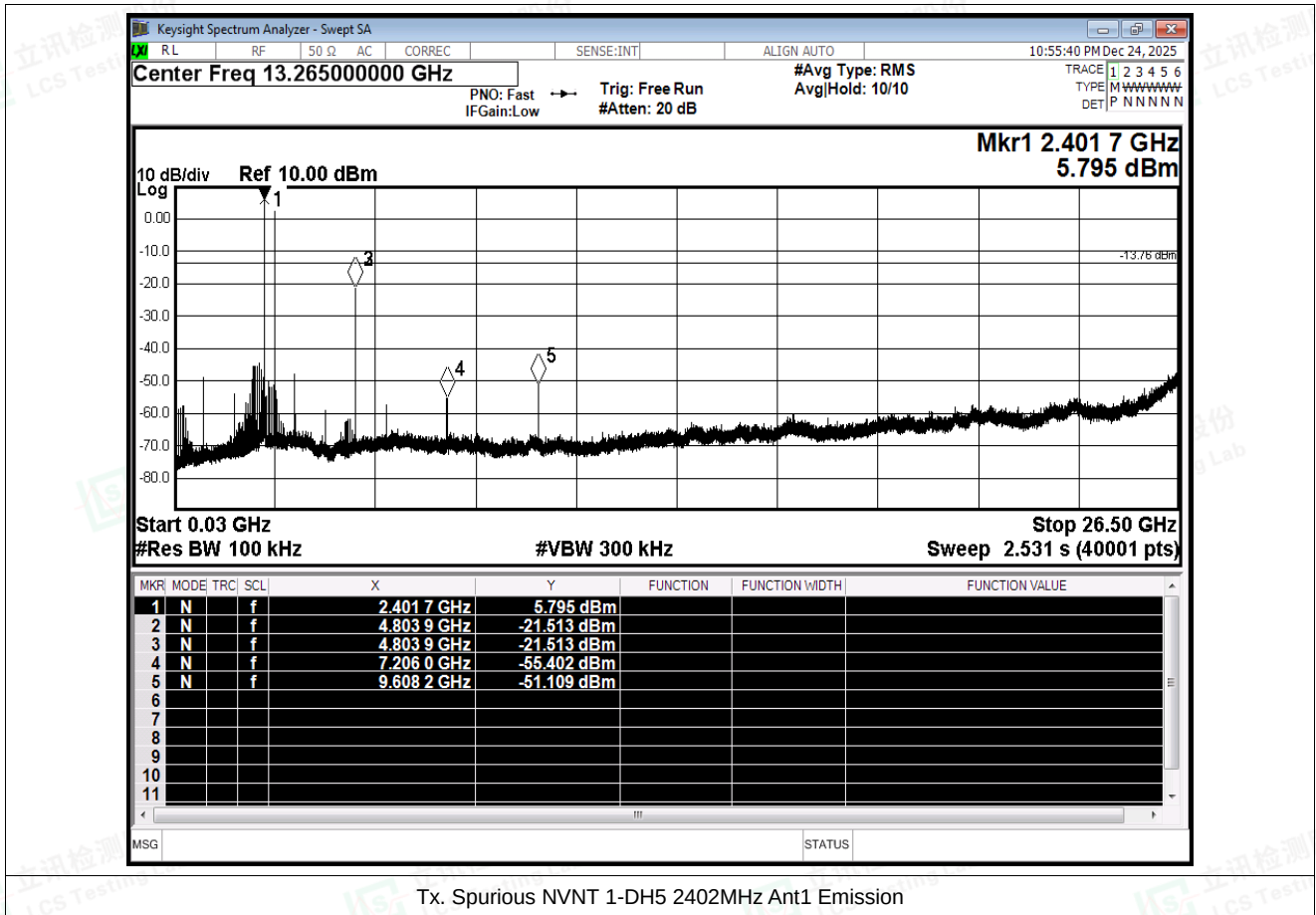
Scan code to check authenticity

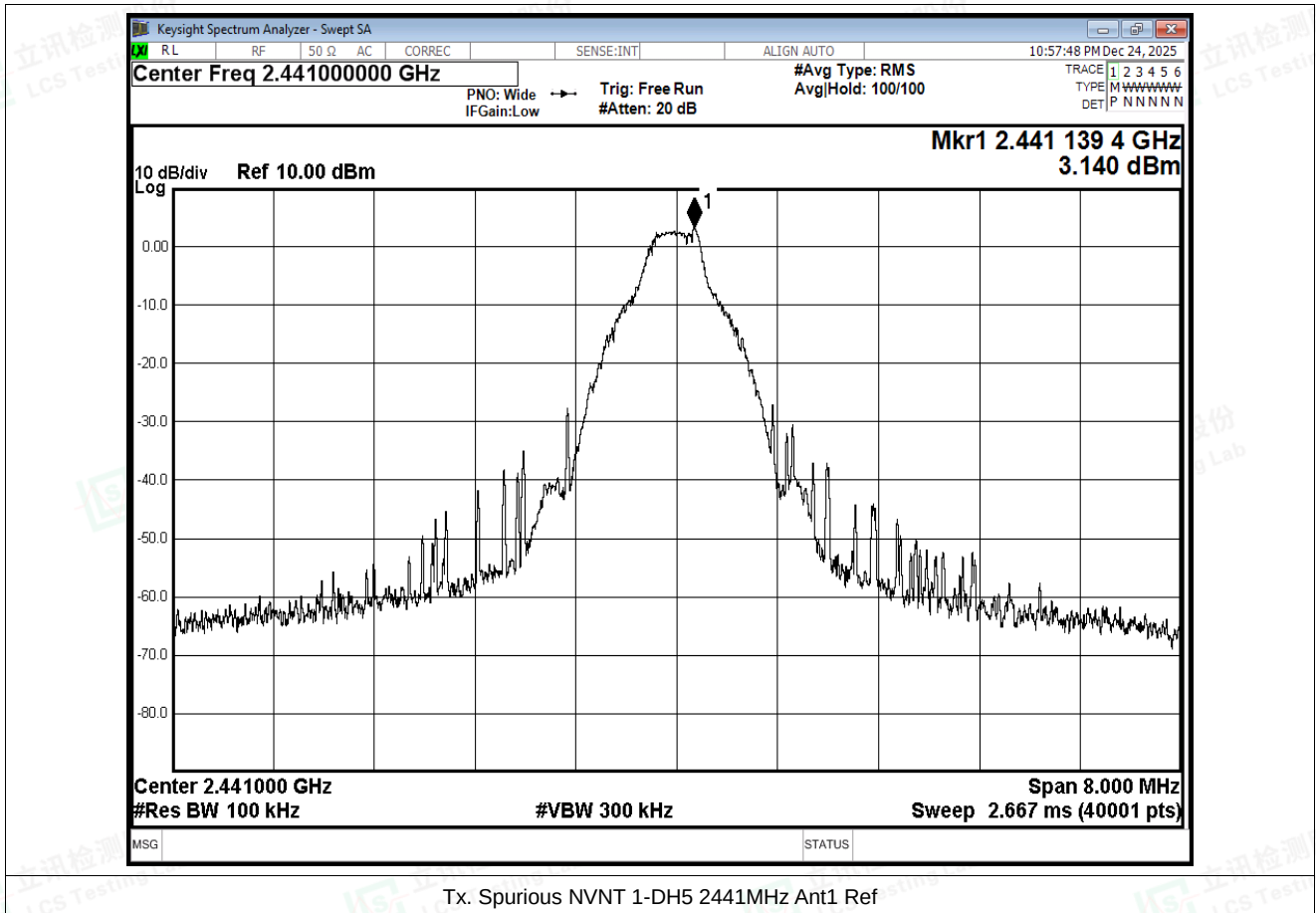
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-27.75	-20	Pass
NVNT	1-DH5	2441	Ant1	-30.4	-20	Pass
NVNT	1-DH5	2480	Ant1	-32.79	-20	Pass
NVNT	2-DH5	2402	Ant1	-25.59	-20	Pass
NVNT	2-DH5	2441	Ant1	-37.44	-20	Pass
NVNT	2-DH5	2480	Ant1	-33.59	-20	Pass
NVNT	3-DH5	2402	Ant1	-34.11	-20	Pass
NVNT	3-DH5	2441	Ant1	-29.11	-20	Pass
NVNT	3-DH5	2480	Ant1	-38.74	-20	Pass







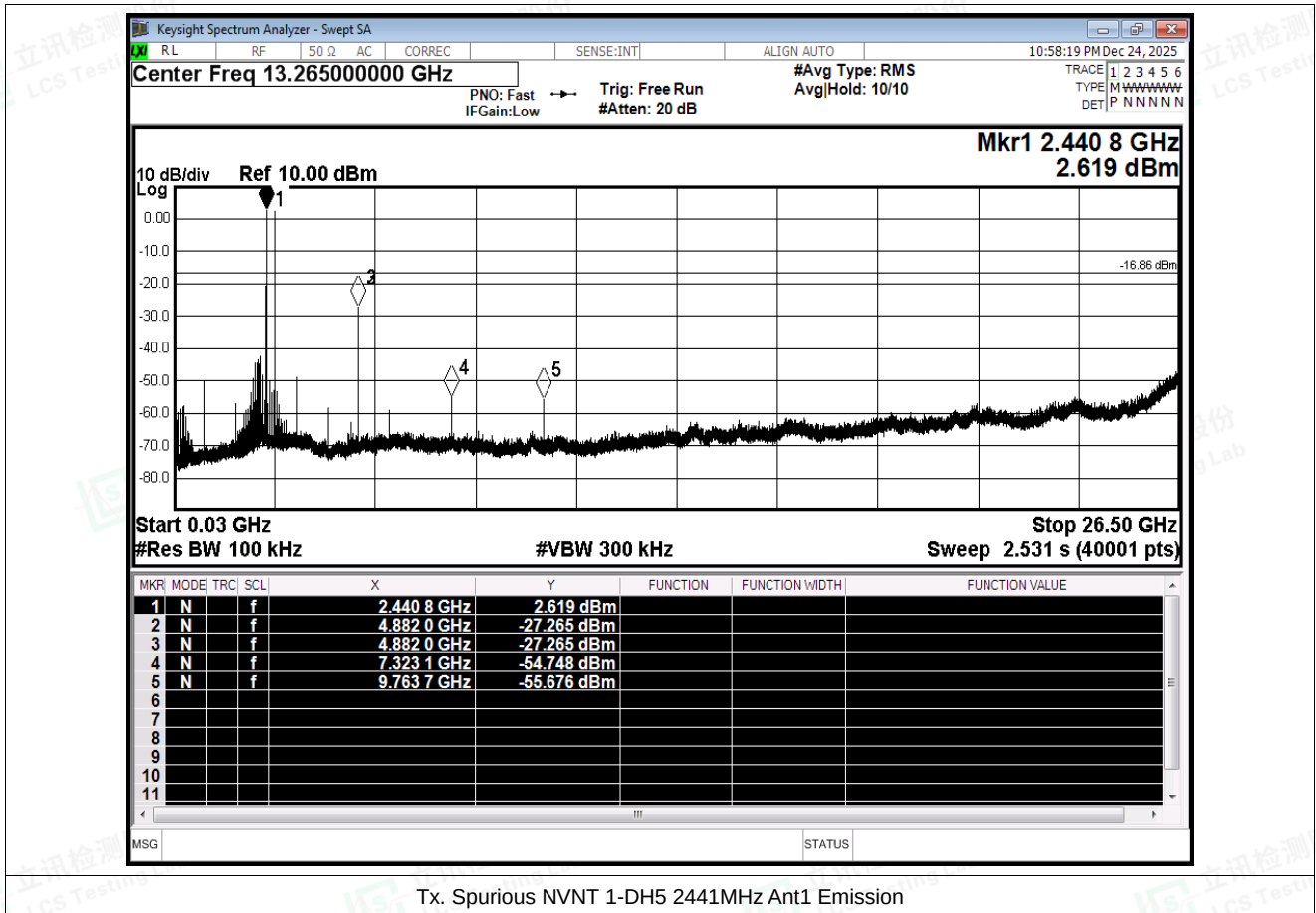


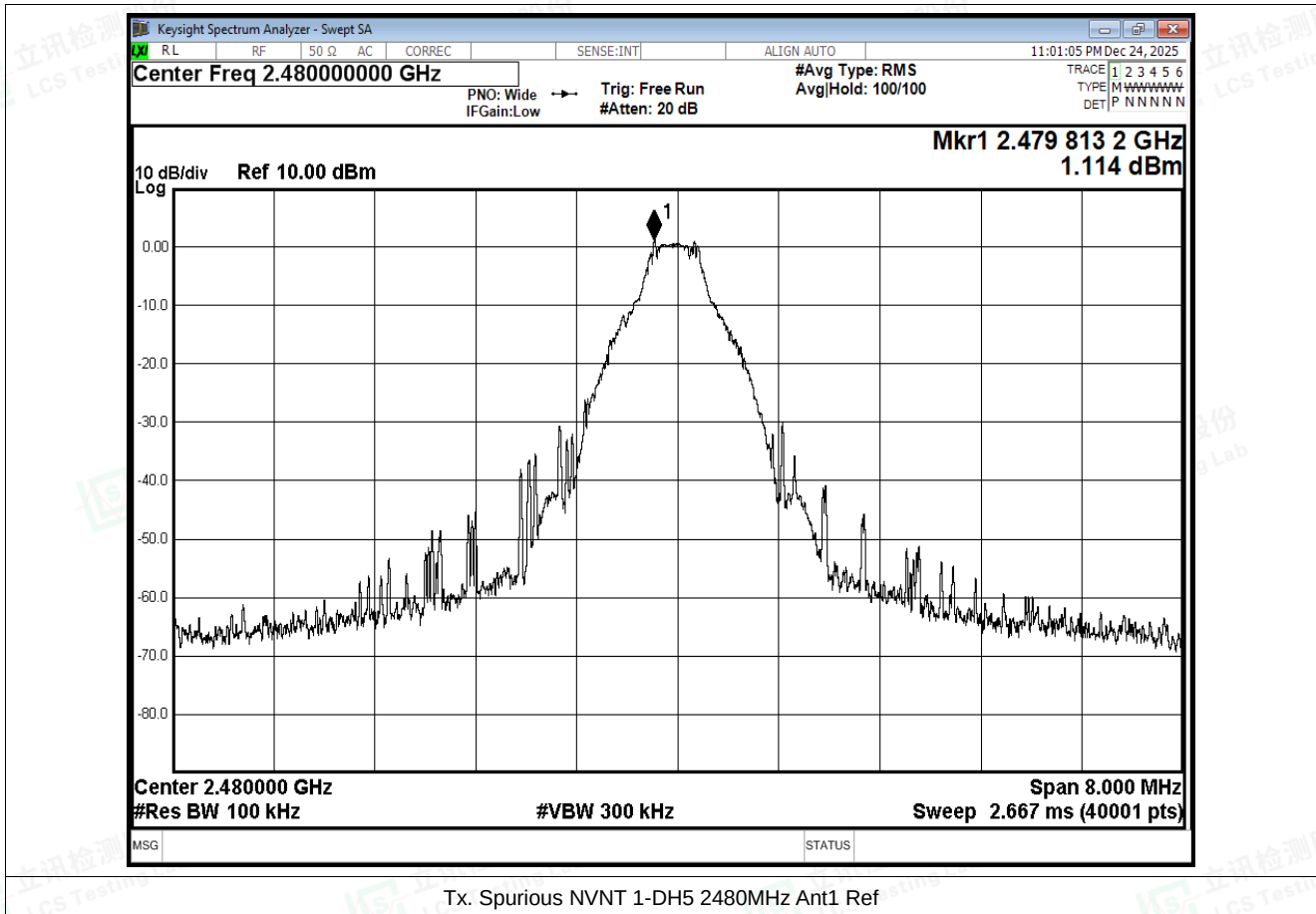
Shenzhen LCS Compliance Testing Laboratory Ltd.

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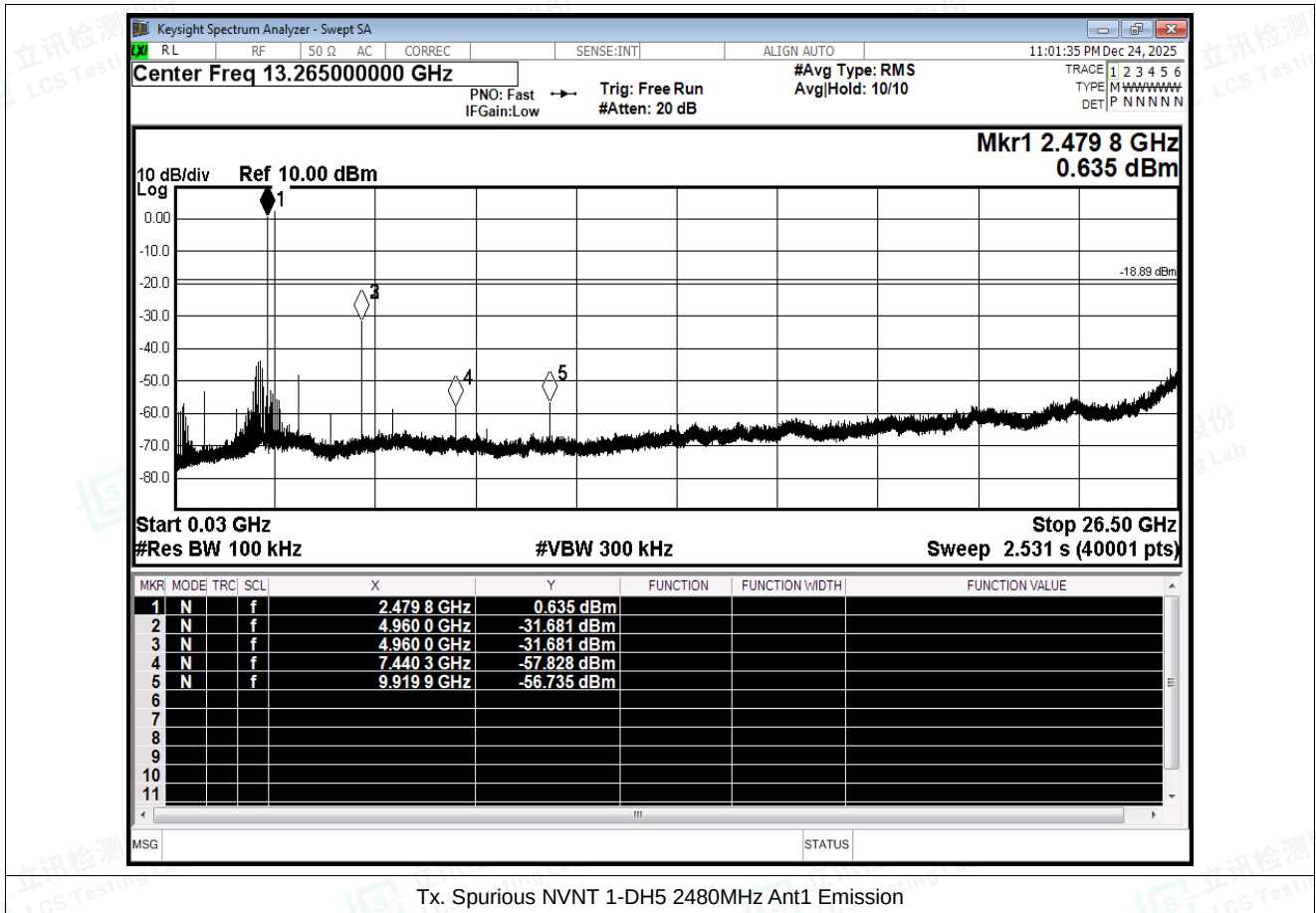


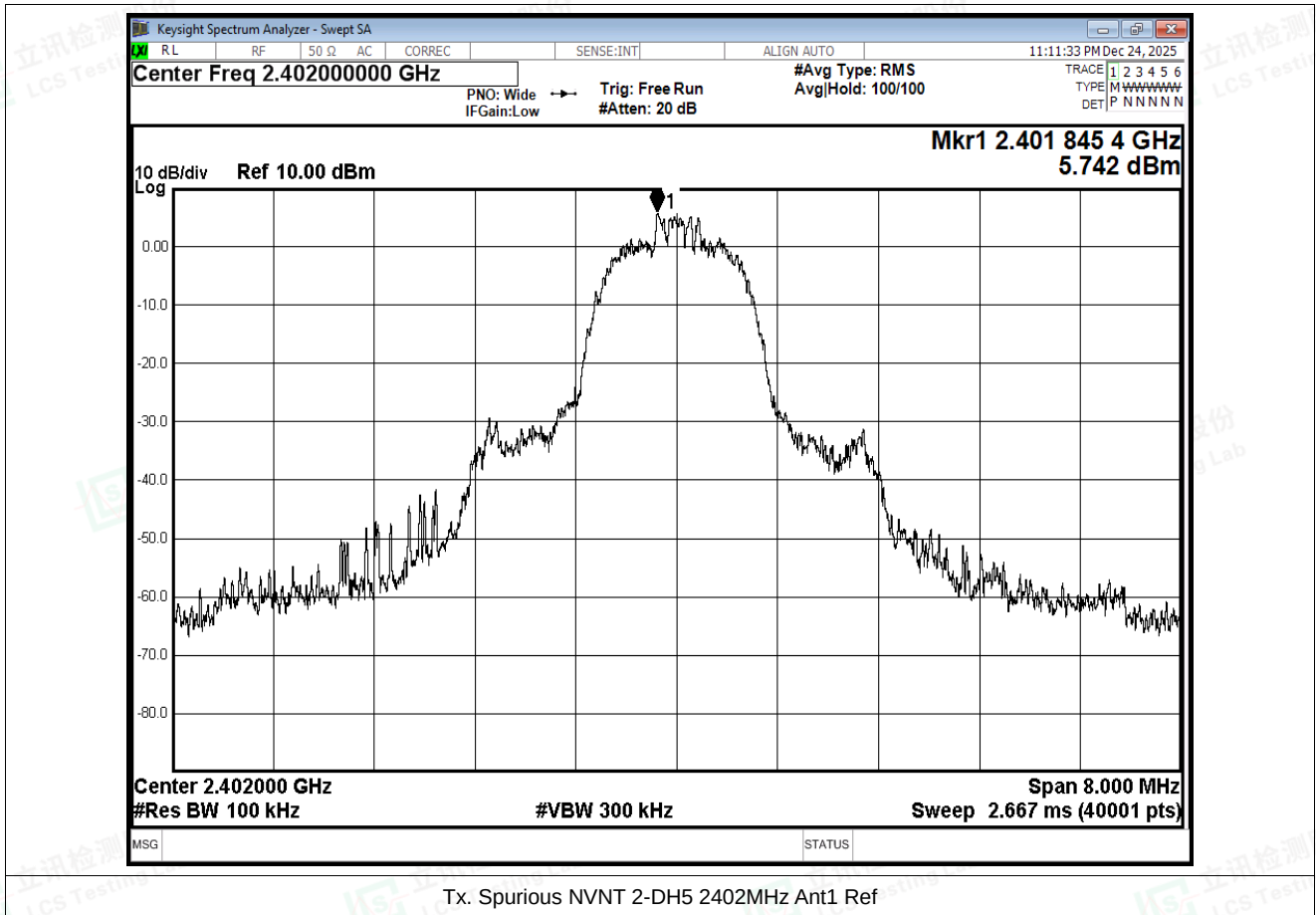
Shenzhen LCS Compliance Testing Laboratory Ltd.

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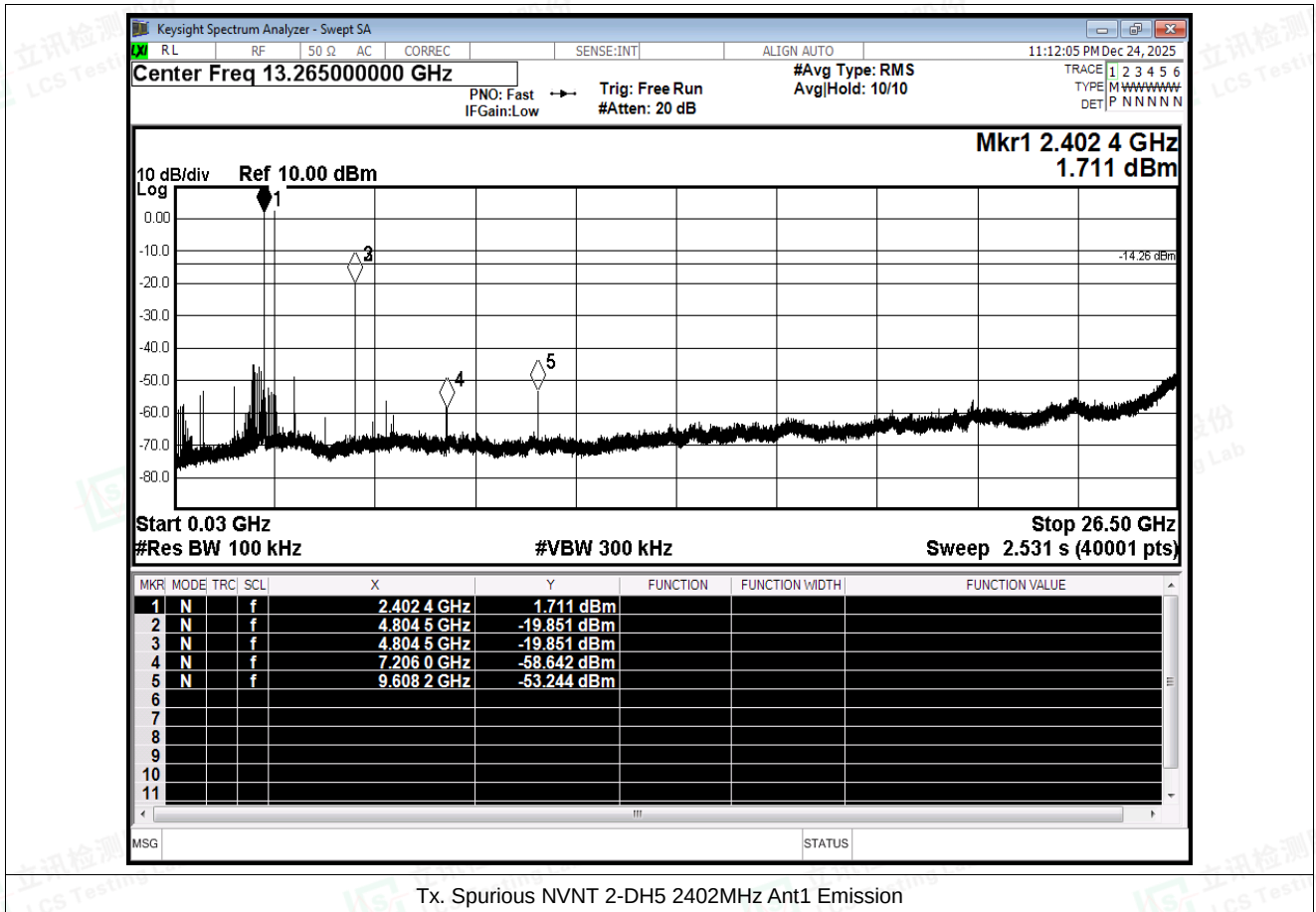


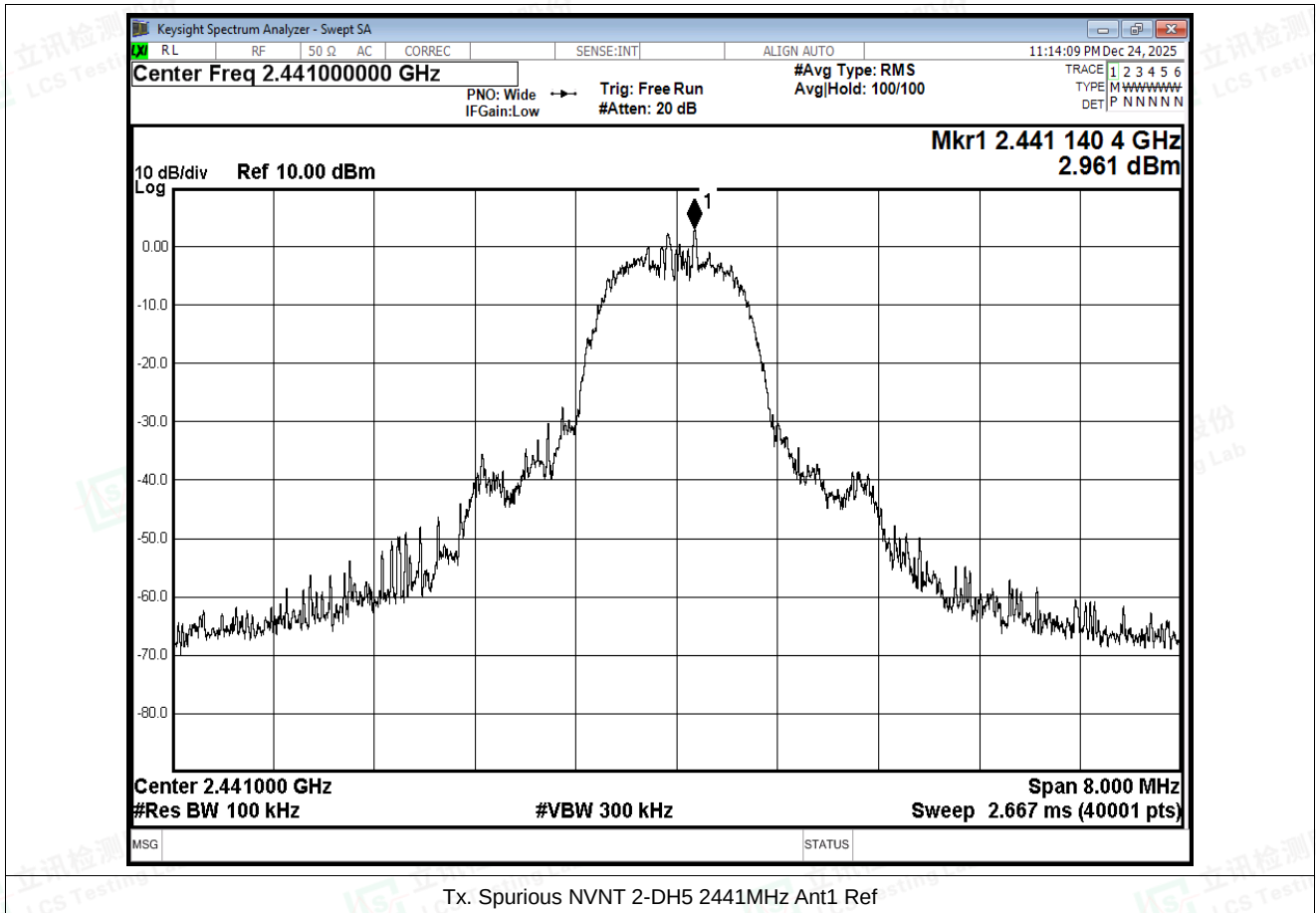
Shenzhen LCS Compliance Testing Laboratory Ltd.

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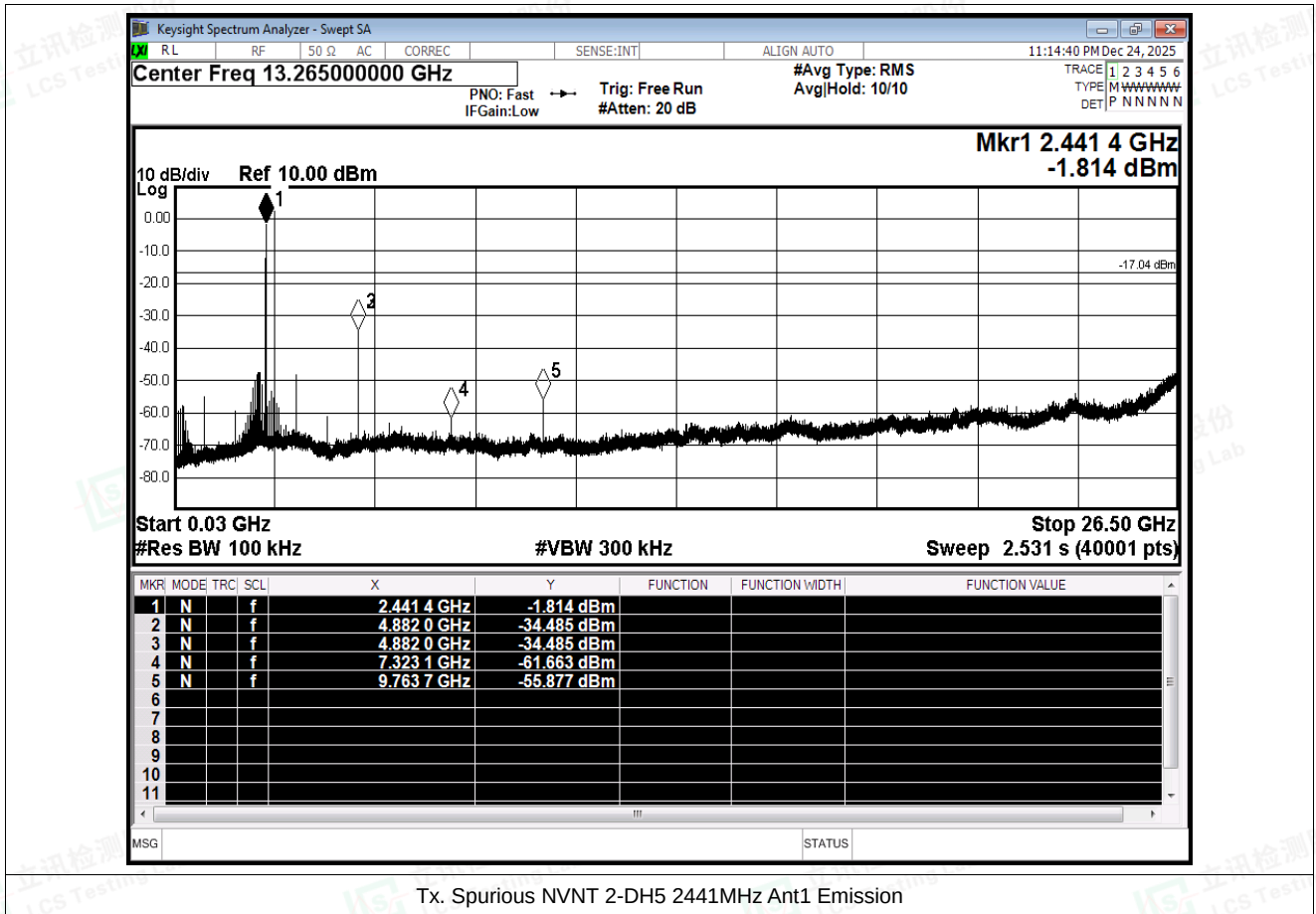


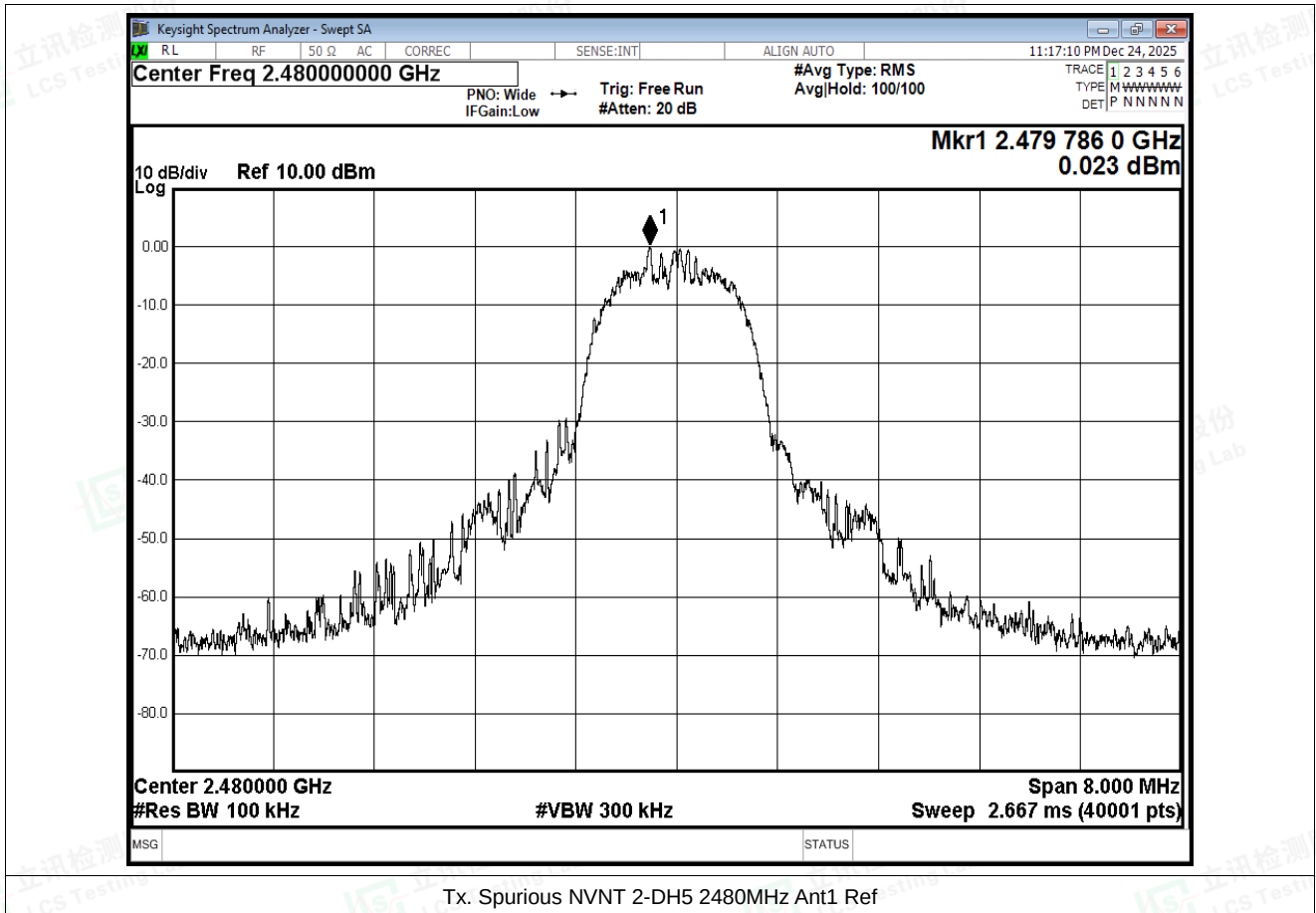
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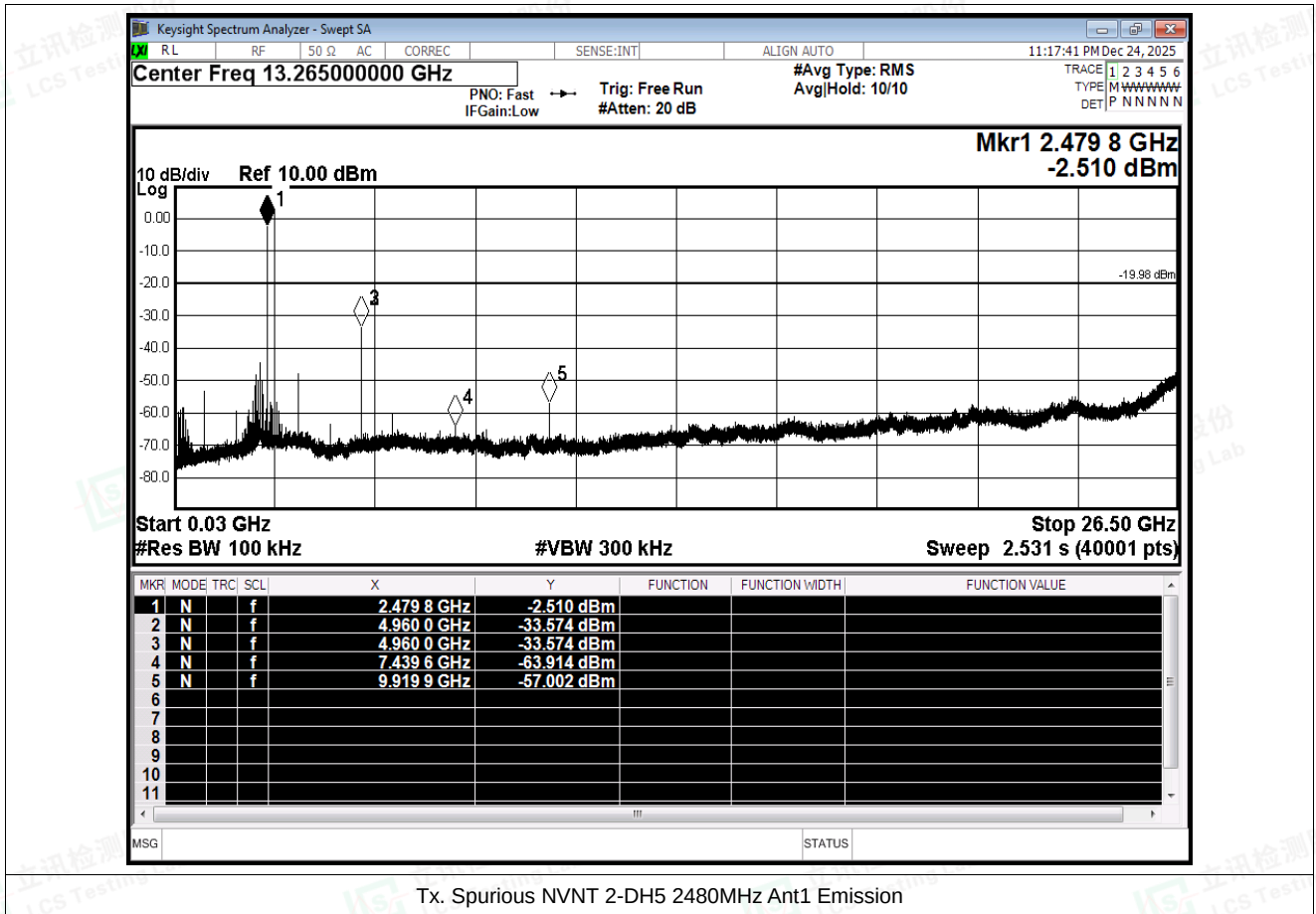


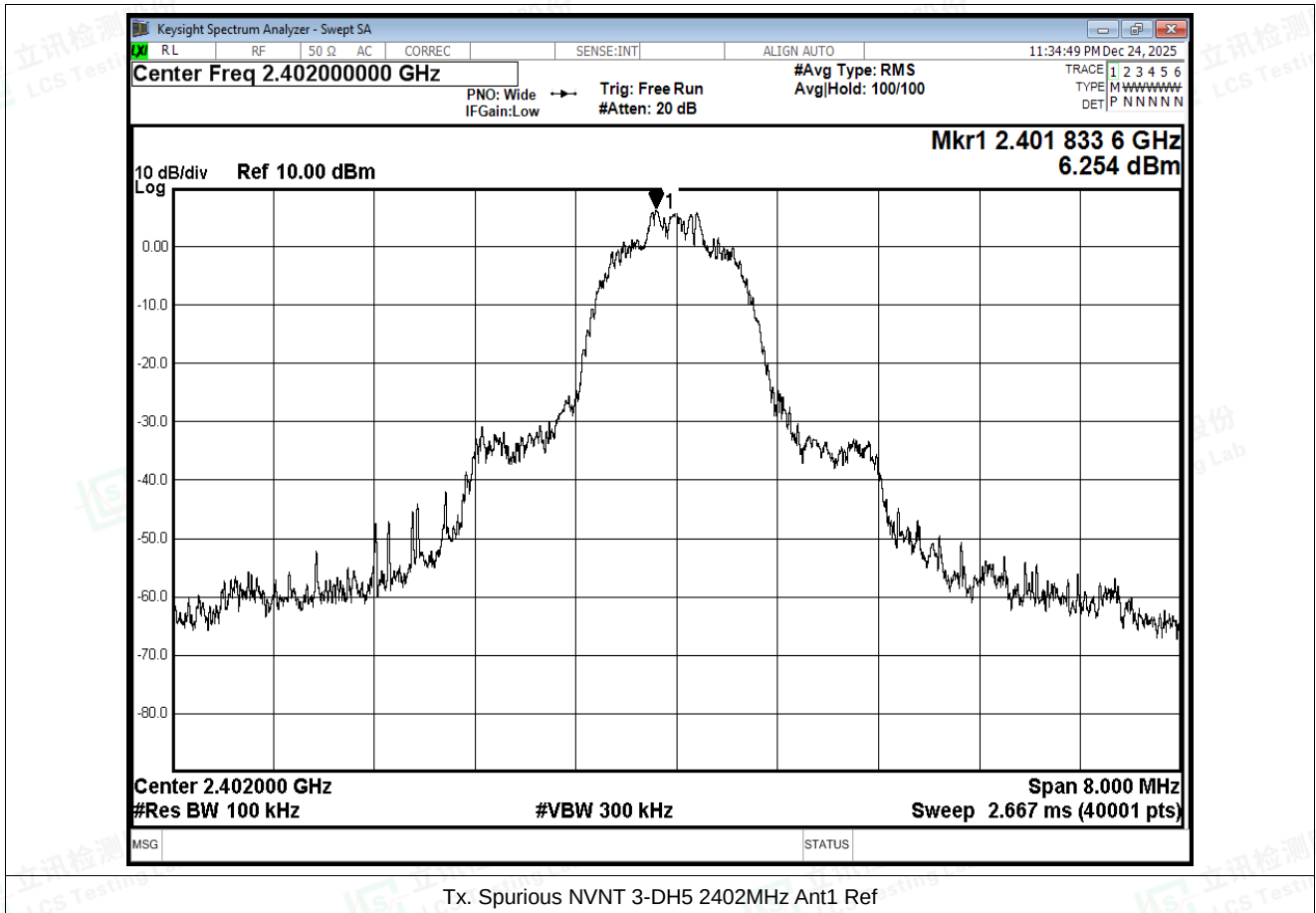
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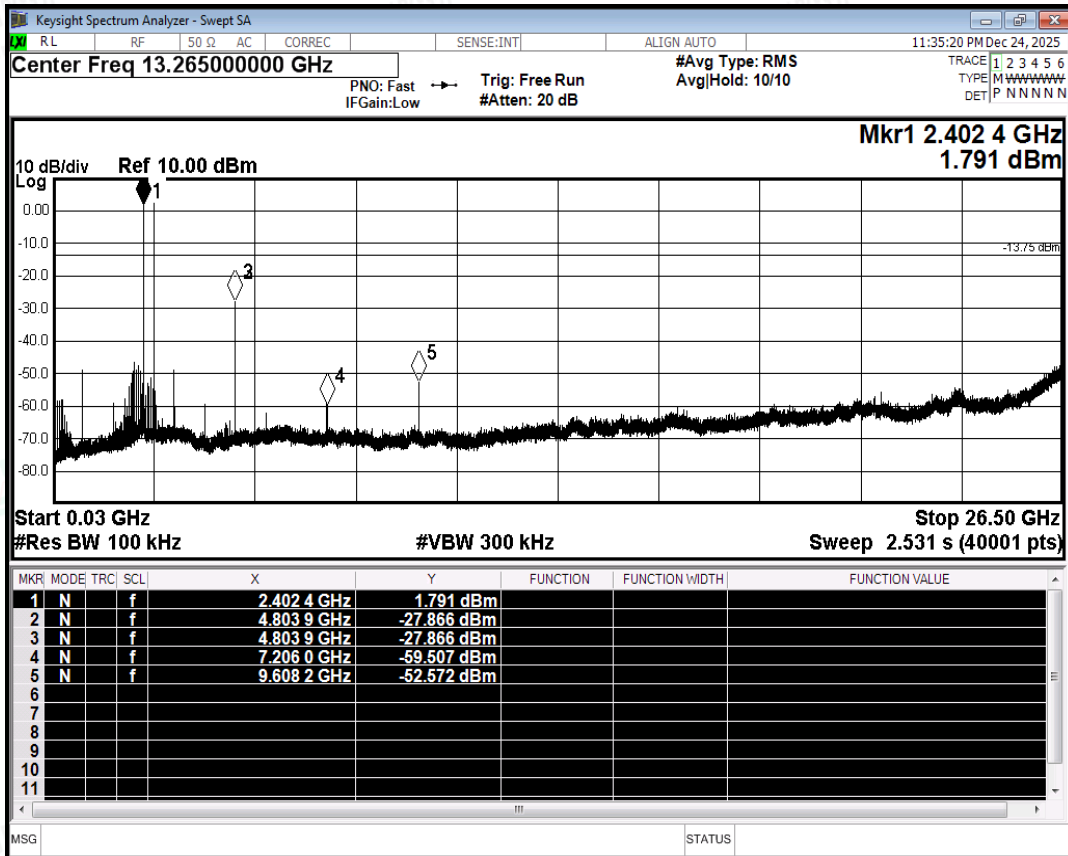


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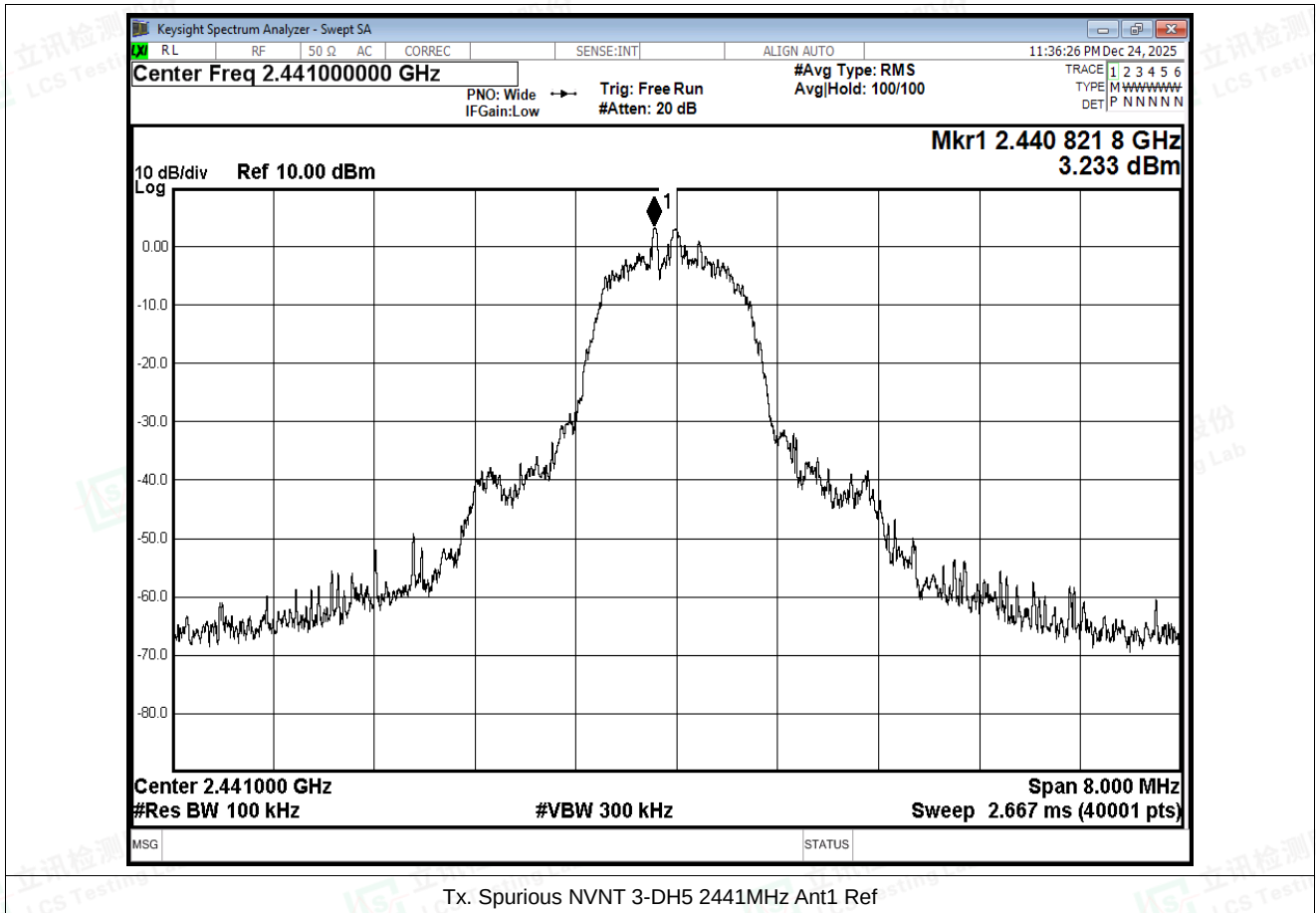
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Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



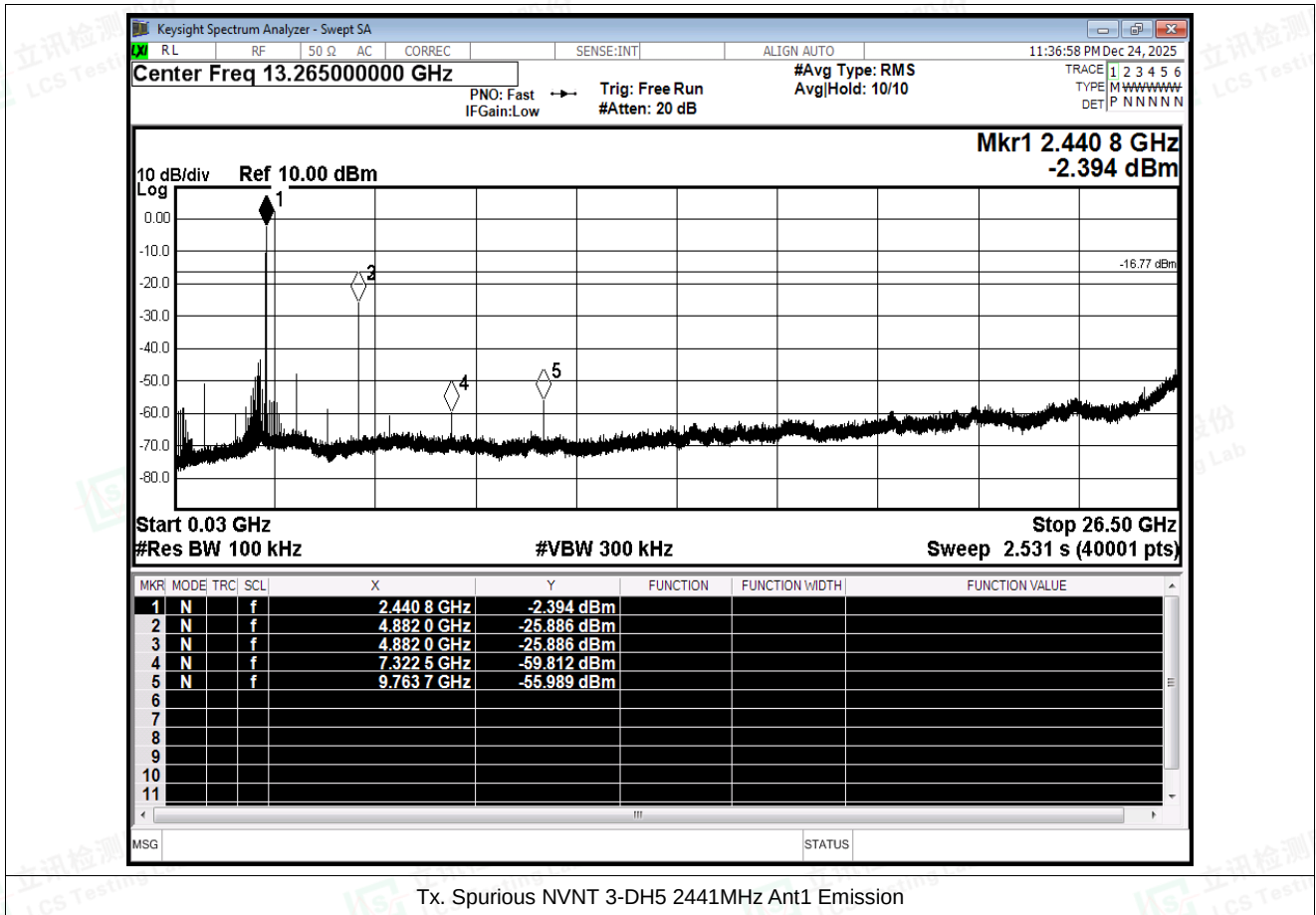


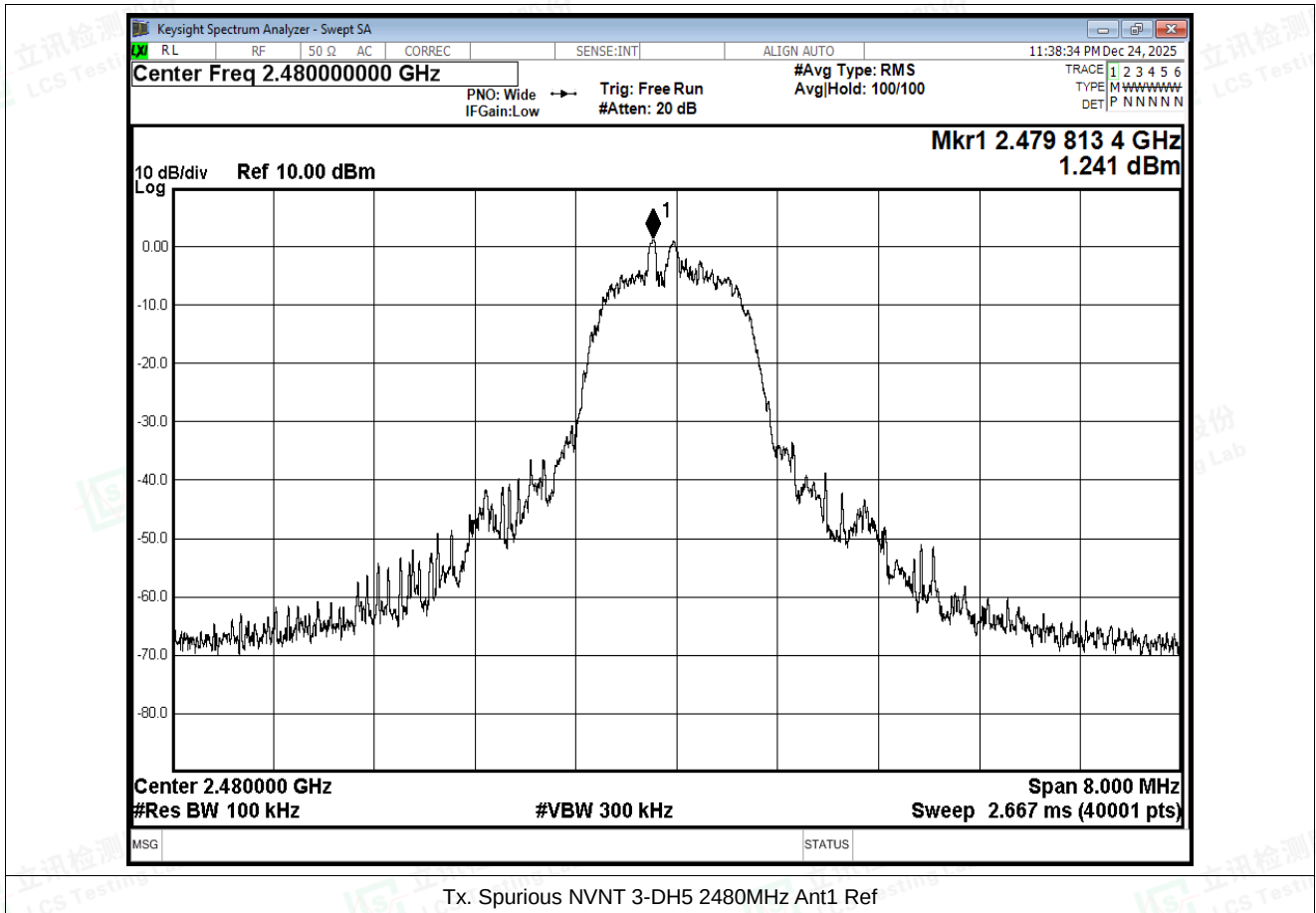
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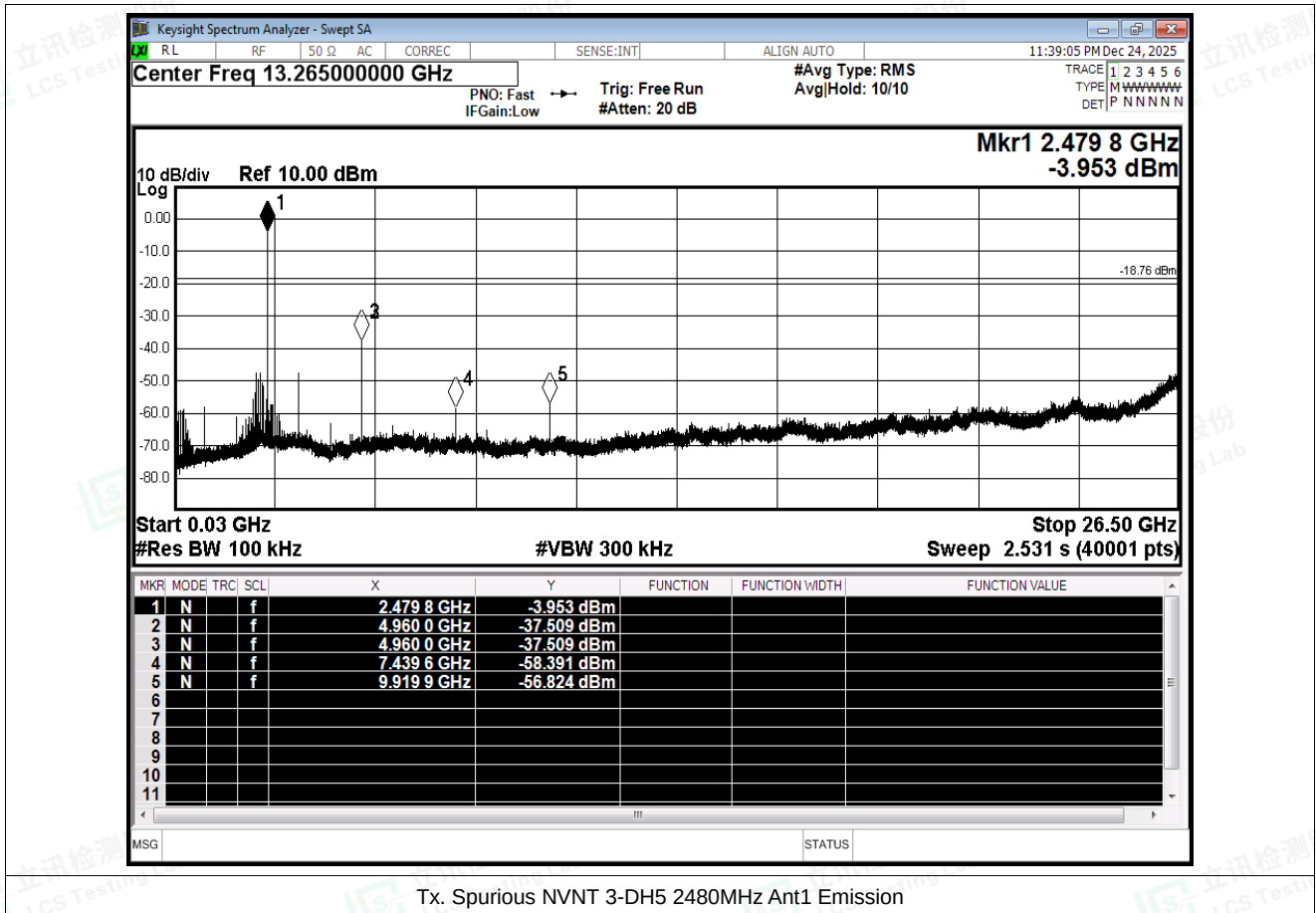


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A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.12	1.13	0.35
NVNT	1-DH5	2441	Ant1	77.12	1.13	0.35
NVNT	1-DH5	2480	Ant1	77.2	1.12	0.35
NVNT	2-DH5	2402	Ant1	77.04	1.13	0.35
NVNT	2-DH5	2441	Ant1	77.04	1.13	0.35
NVNT	2-DH5	2480	Ant1	77.04	1.13	0.35
NVNT	3-DH5	2402	Ant1	77.12	1.13	0.35
NVNT	3-DH5	2441	Ant1	77.04	1.13	0.35
NVNT	3-DH5	2480	Ant1	77.04	1.13	0.35



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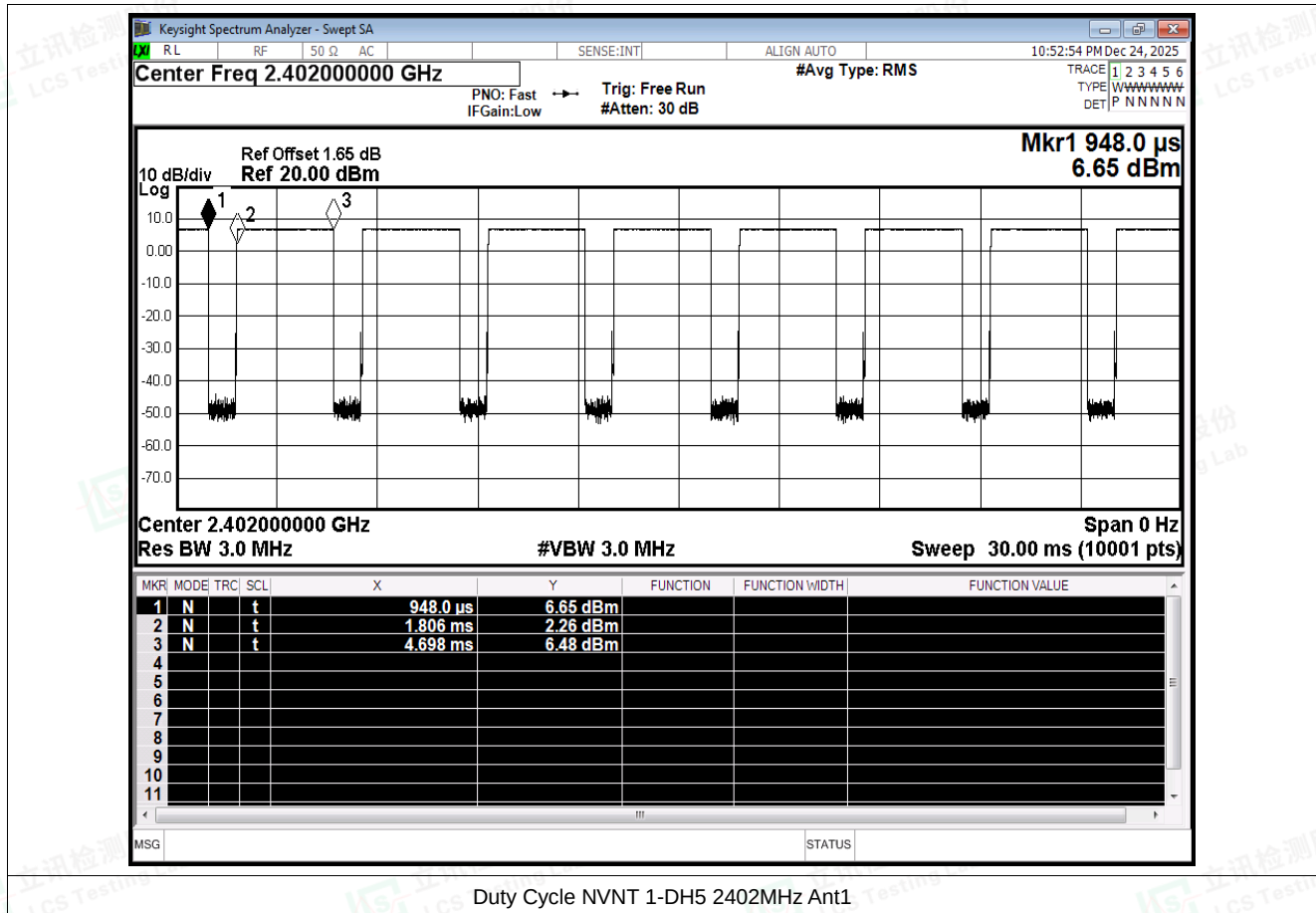
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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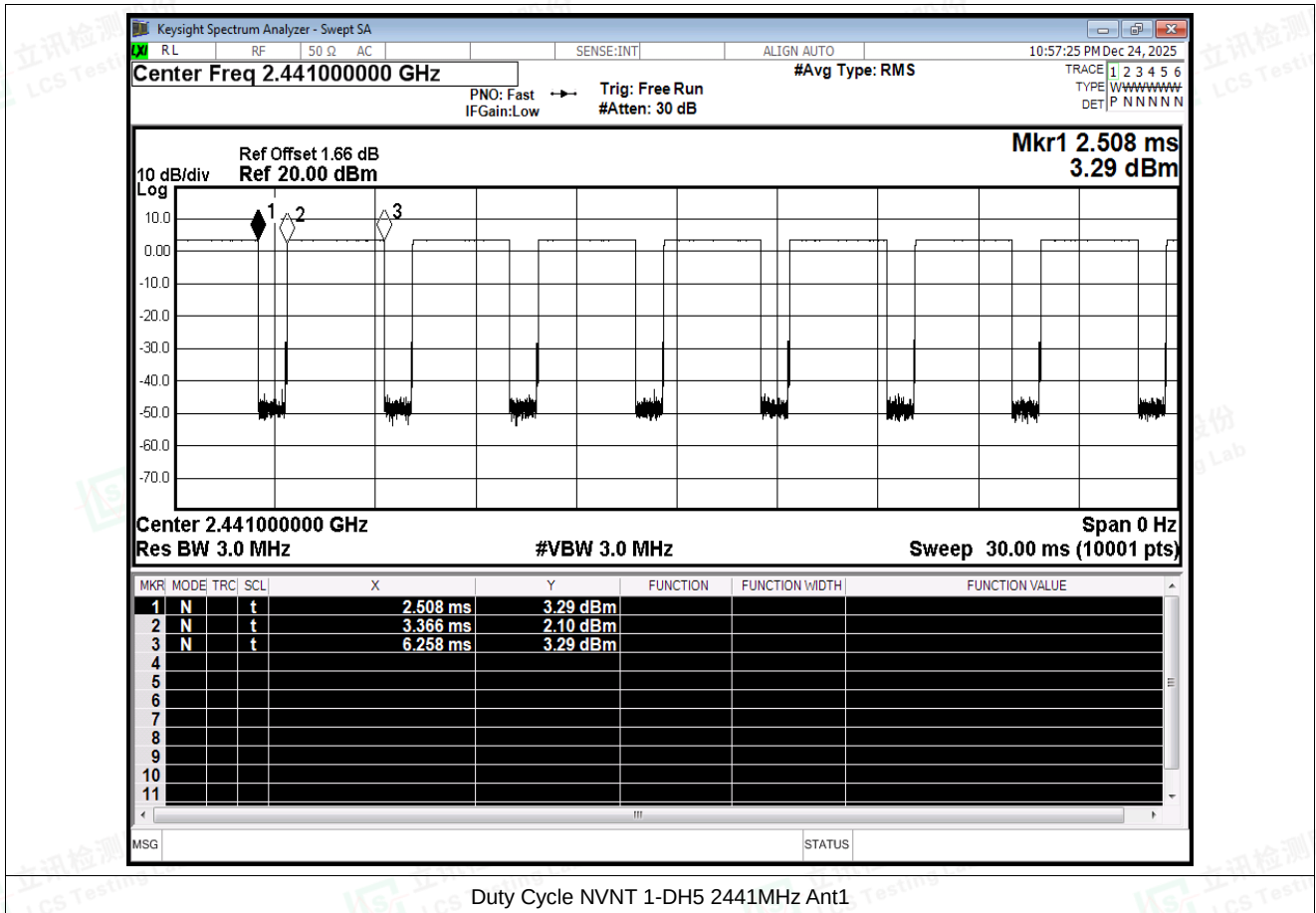
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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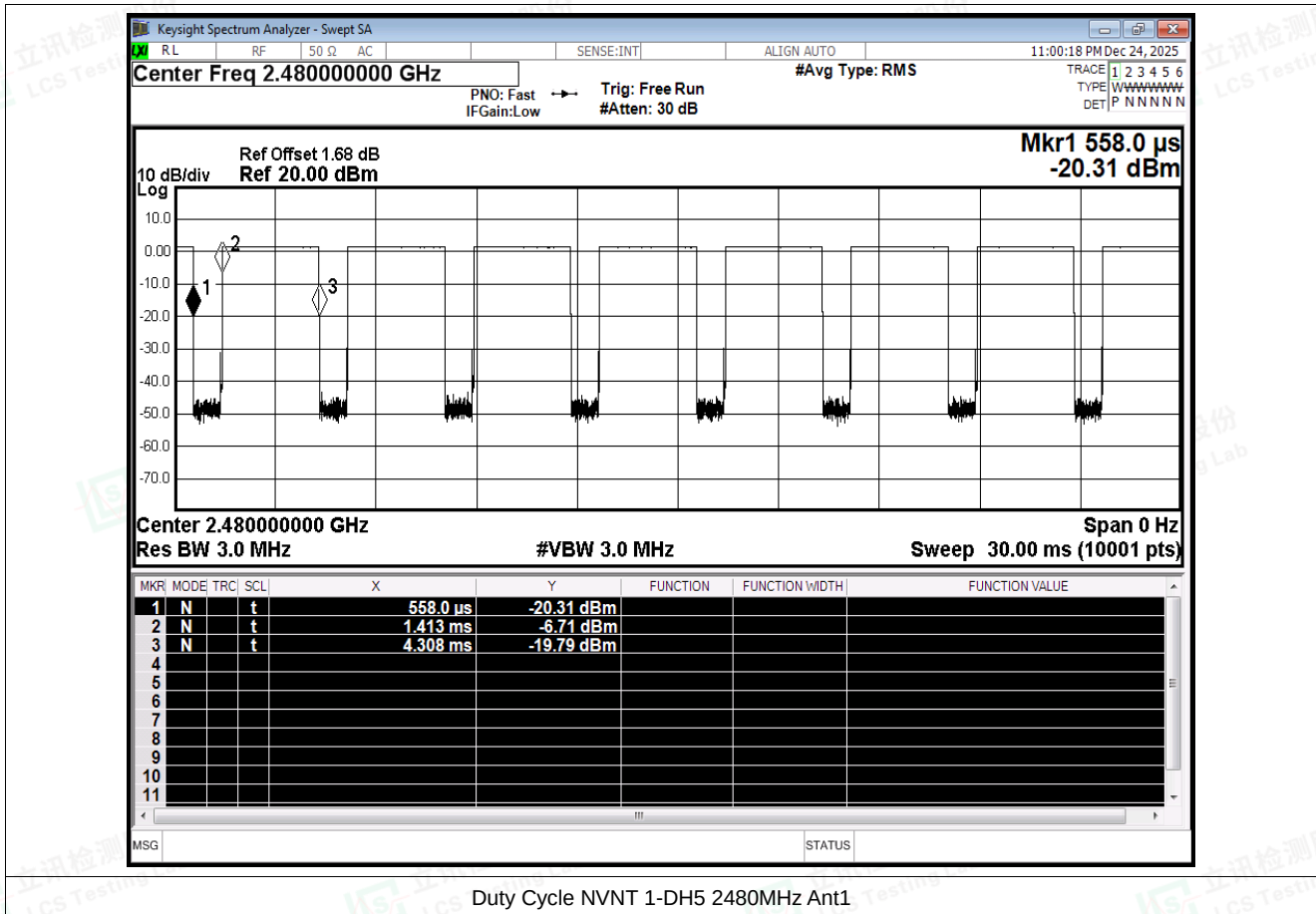
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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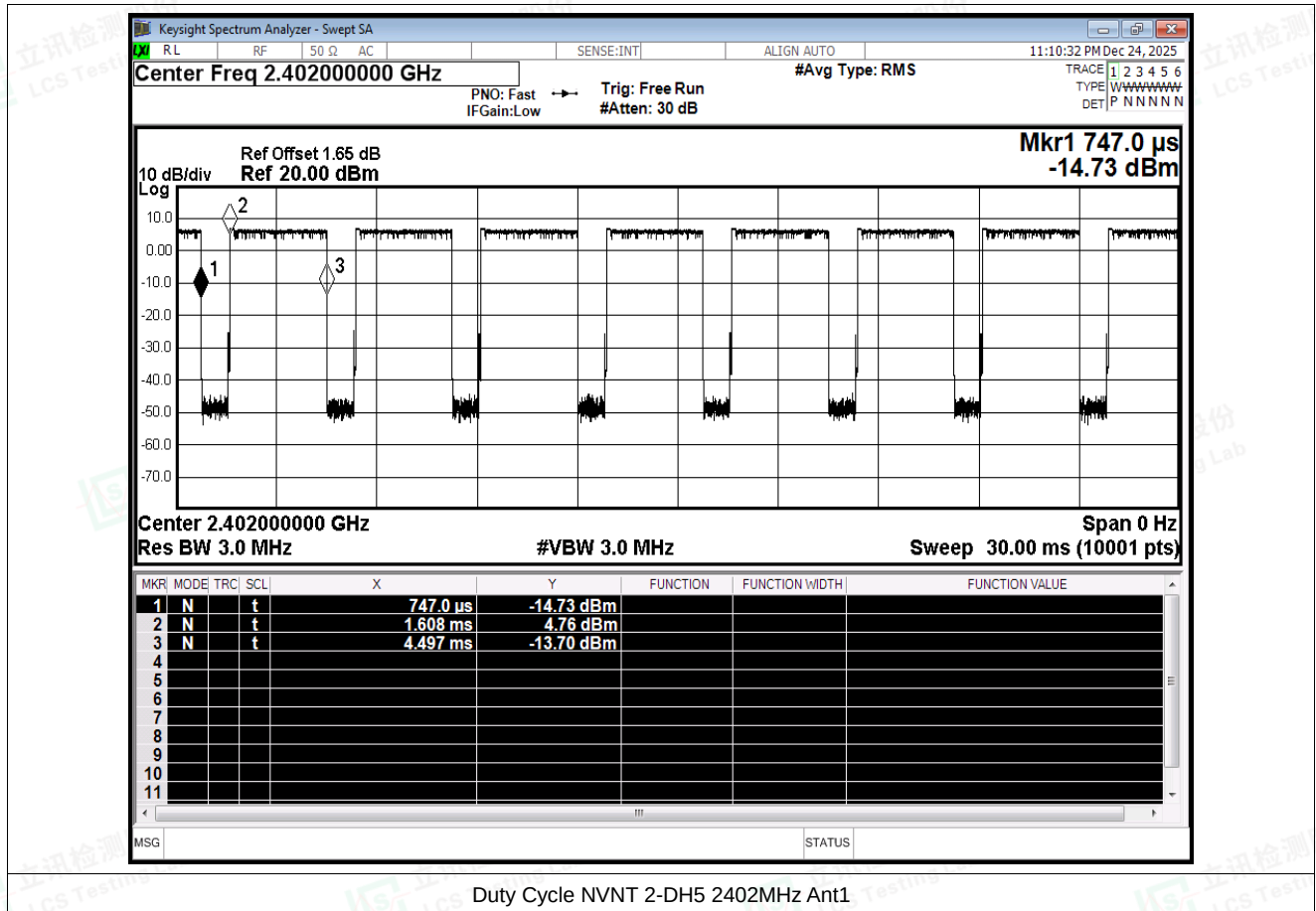
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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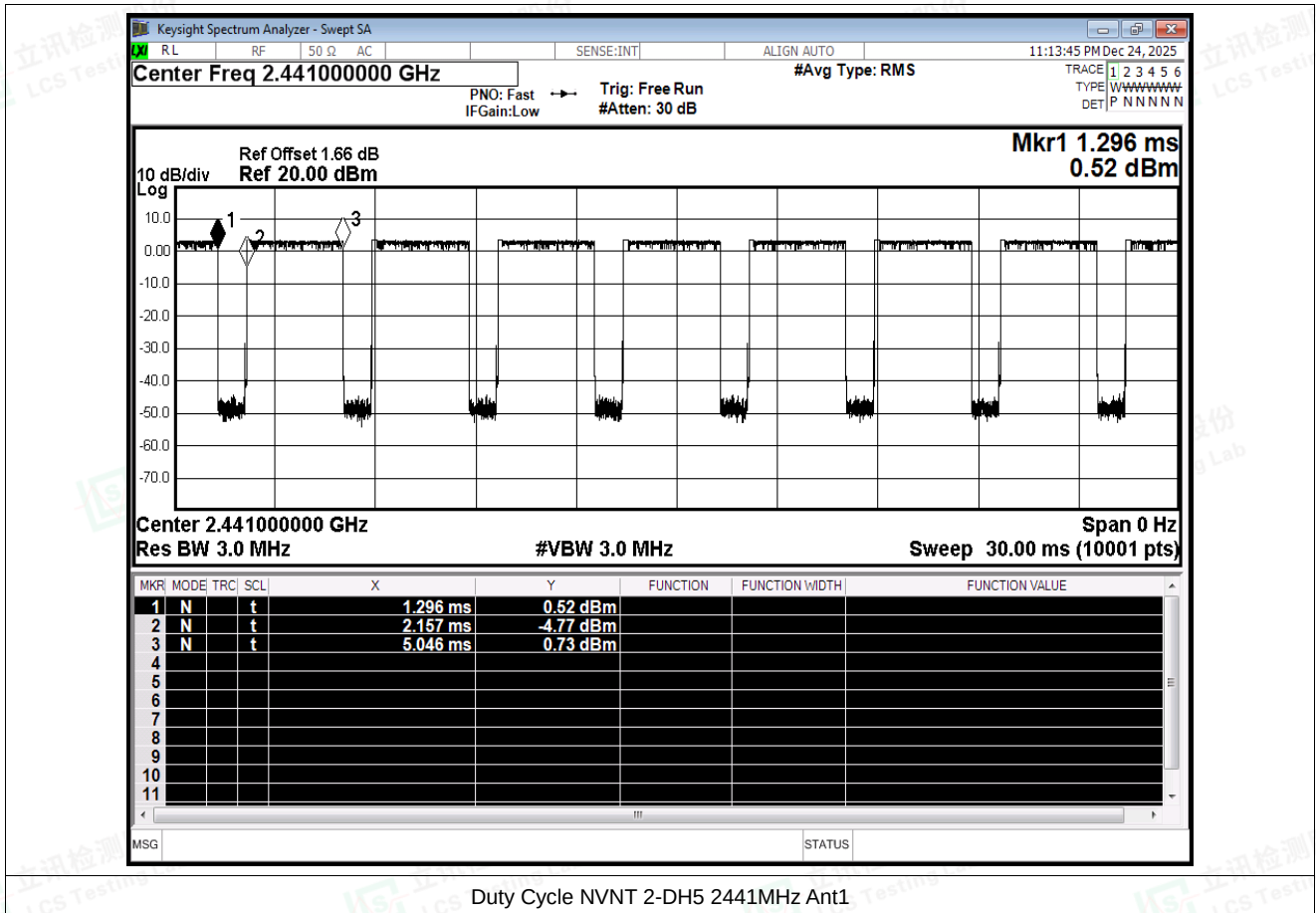
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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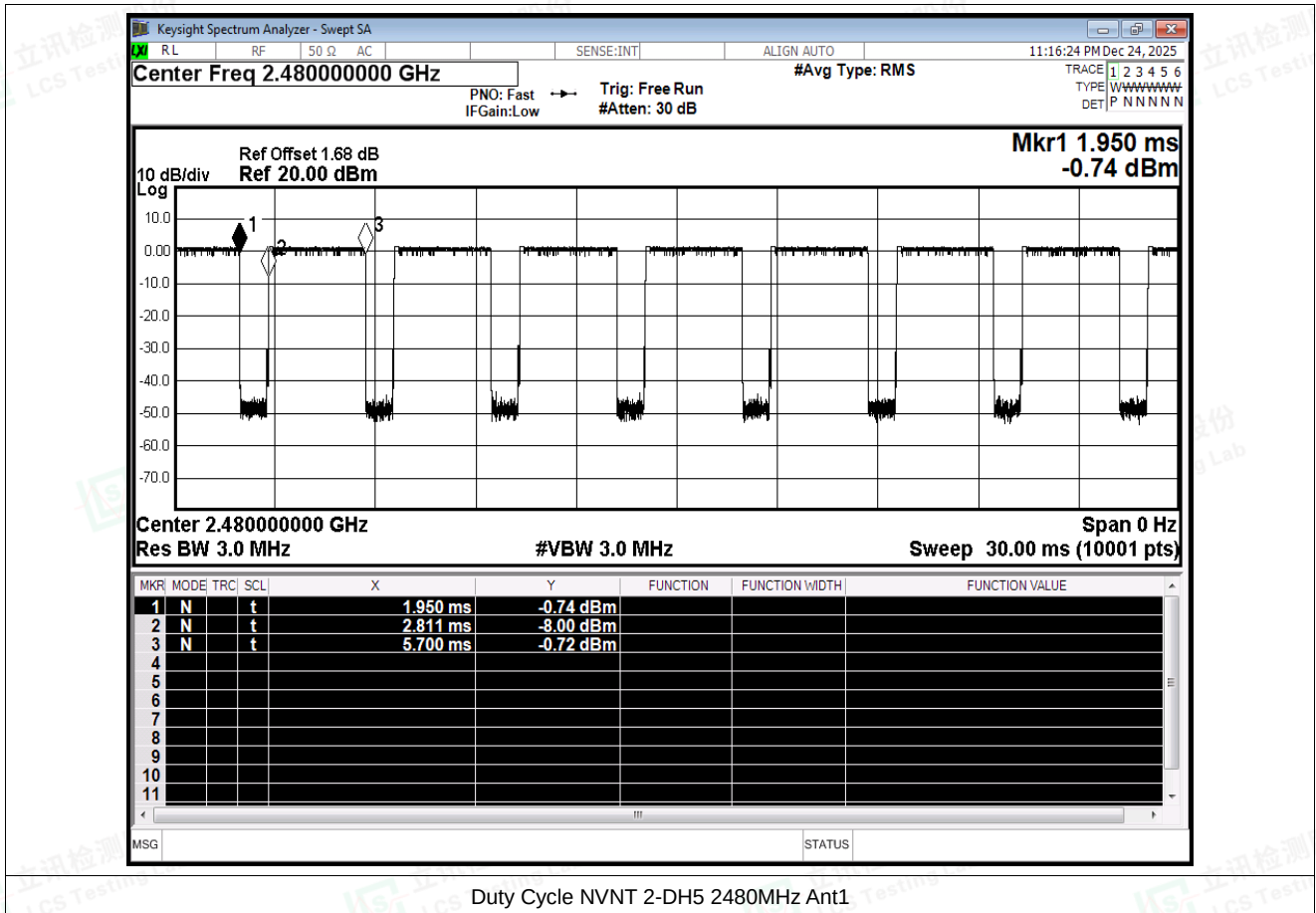
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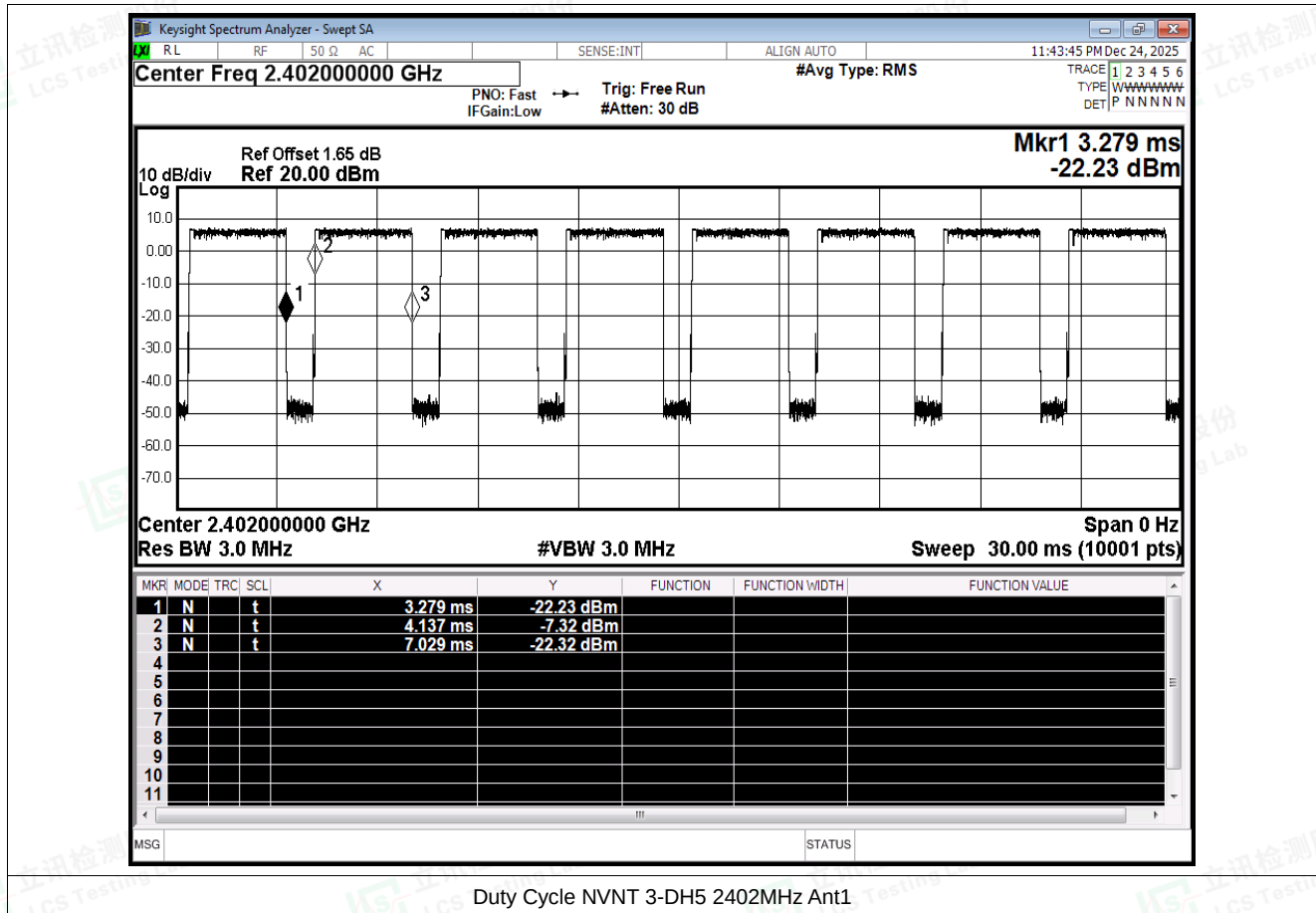
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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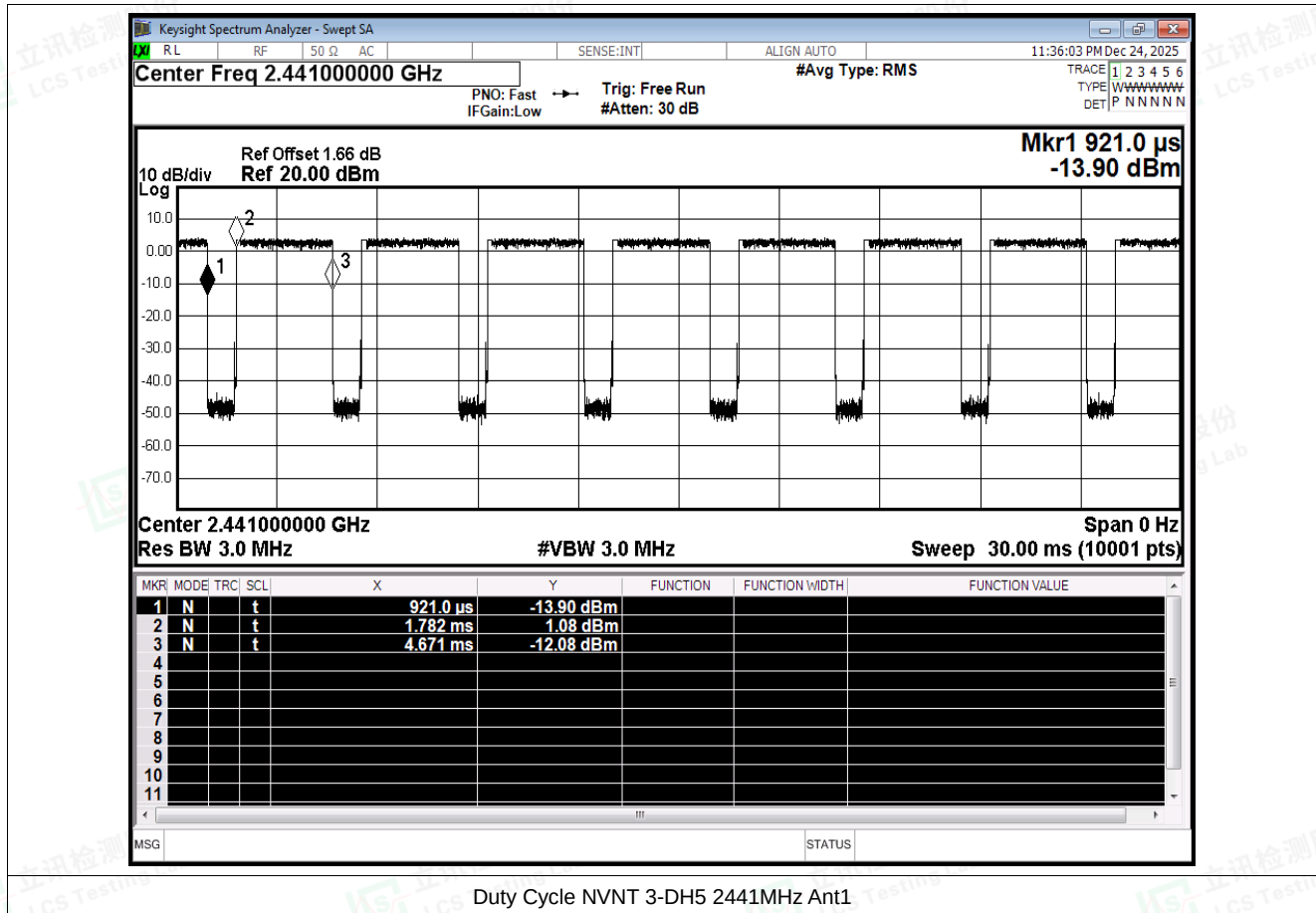
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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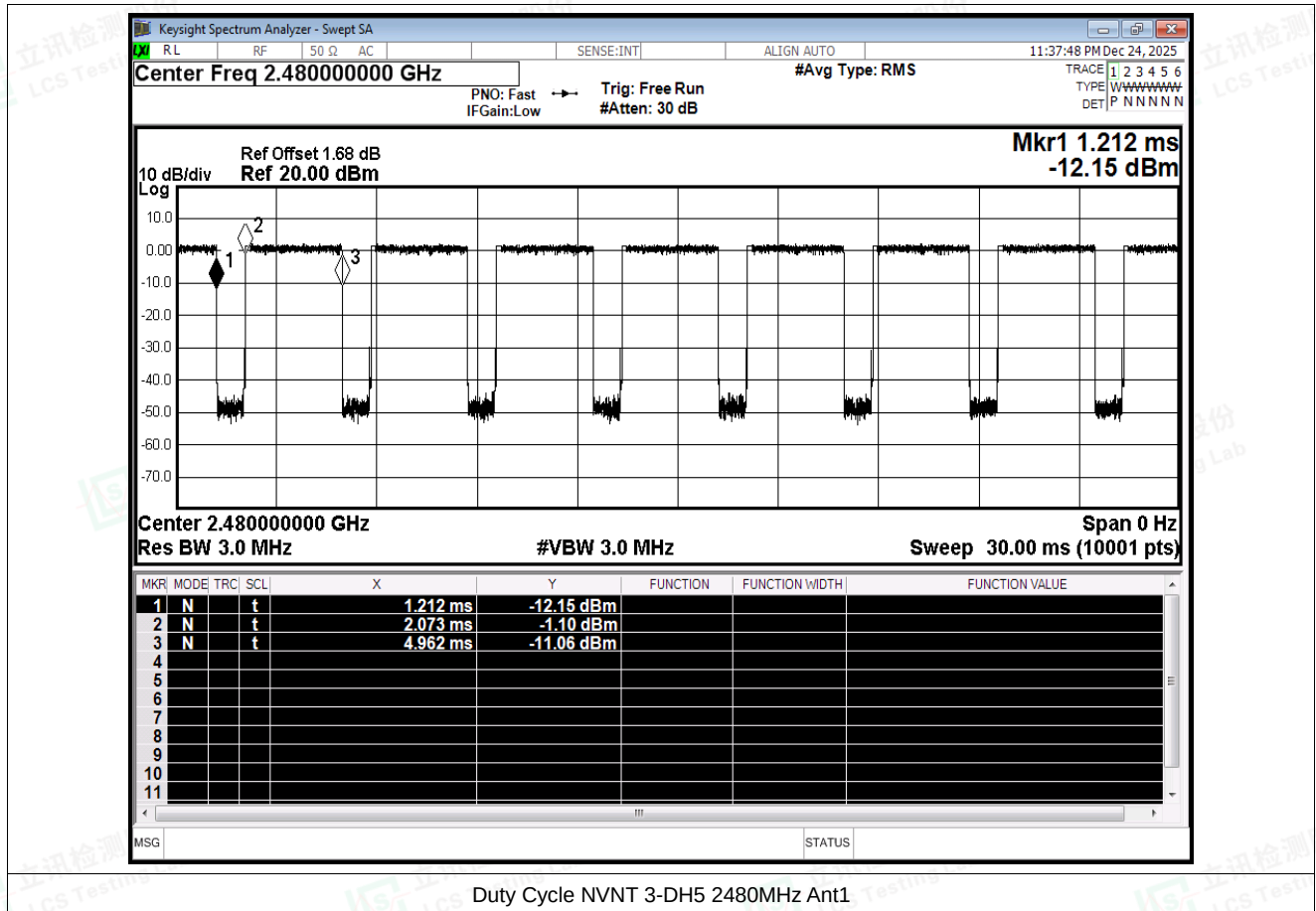


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A.9 Restrict Band

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	-50.16	3.38	-	48.48	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.36	3.38	1.13	42.41	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2378.064	-44.47	3.38	-	54.17	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2377.968	-48.23	3.38	1.13	51.54	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.64	3.38	-	49.00	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-54.53	3.38	1.13	45.24	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.43	3.38	-	49.21	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.57	3.38	1.12	44.19	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2489.248	-47.05	3.38	-	51.59	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.57	3.38	1.12	44.19	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.66	3.38	-	48.98	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.62	3.38	1.12	42.14	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.03	3.38	-	47.61	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.57	3.38	1.13	42.2	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2377.584	-44.86	3.38	-	53.78	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2377.968	-50.27	3.38	1.13	49.50	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.14	3.38	-	48.50	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-55.43	3.38	1.13	44.34	Average	54	Pass

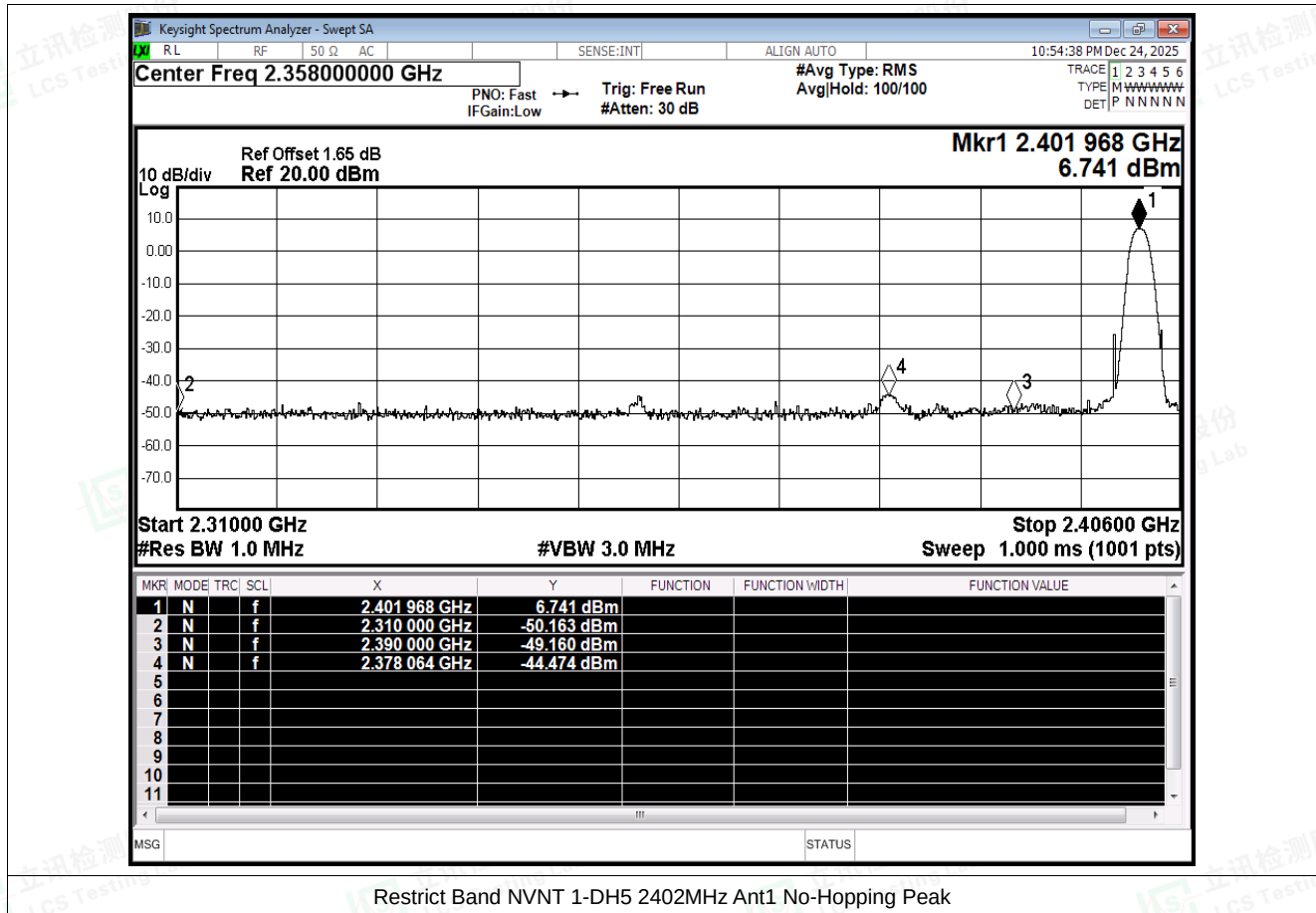


NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-51.03	3.38	-	47.61	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.58	3.38	1.13	44.19	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.336	-47.4	3.38	-	51.24	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.58	3.38	1.13	44.19	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.04	3.38	-	47.6	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.73	3.38	1.13	42.04	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.52	3.38	-	48.12	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.65	3.38	1.13	42.12	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2378.256	-43.86	3.38	-	54.78	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2378.064	-50.29	3.38	1.13	49.48	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.74	3.38	-	47.9	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-56.74	3.38	1.13	43.03	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50	3.38	-	48.64	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.57	3.38	1.13	44.2	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.92	-46.28	3.38	-	52.36	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.57	3.38	1.13	44.2	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-52.67	3.38	-	45.97	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.77	3.38	1.13	42.00	Average	54	Pass





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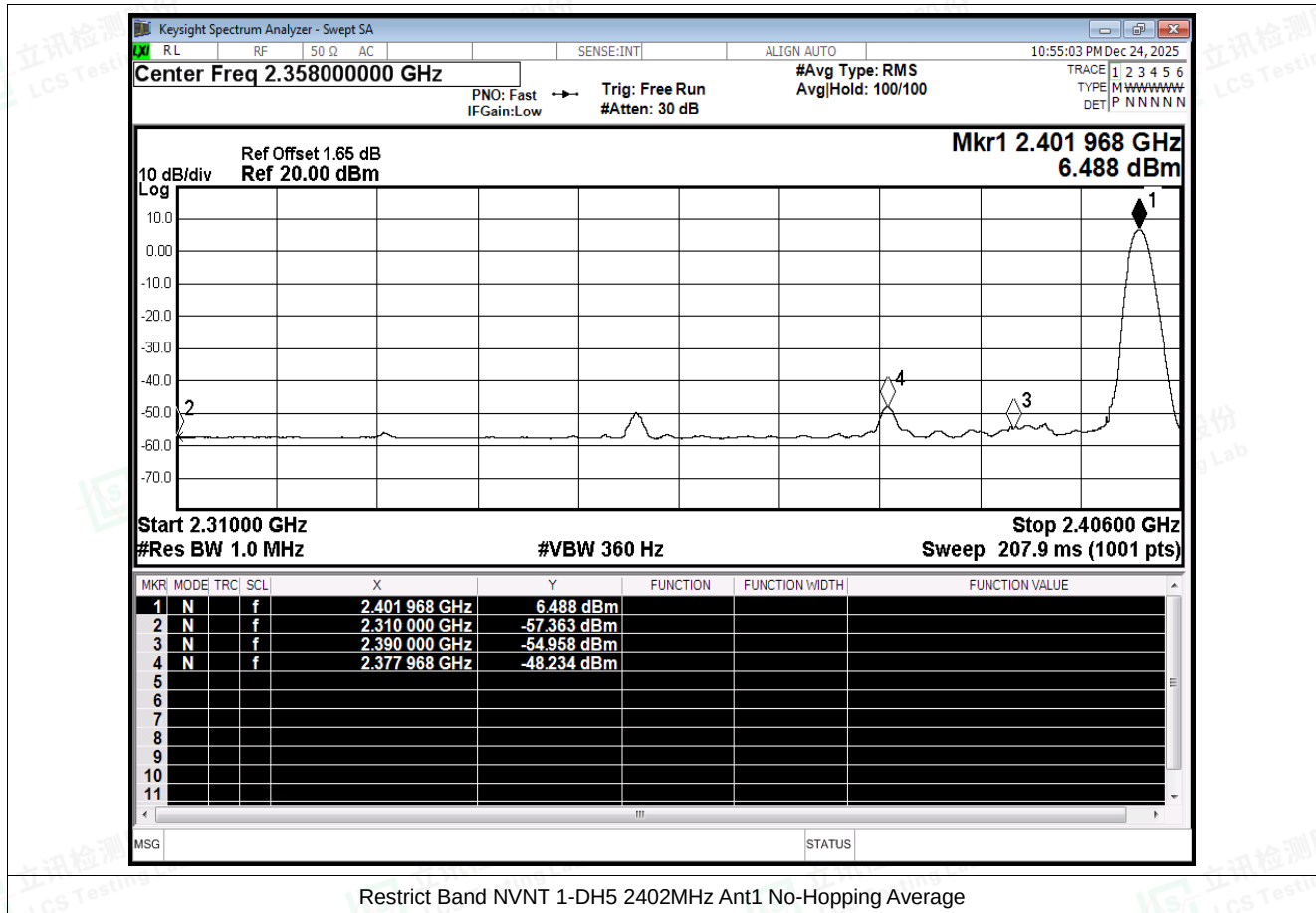
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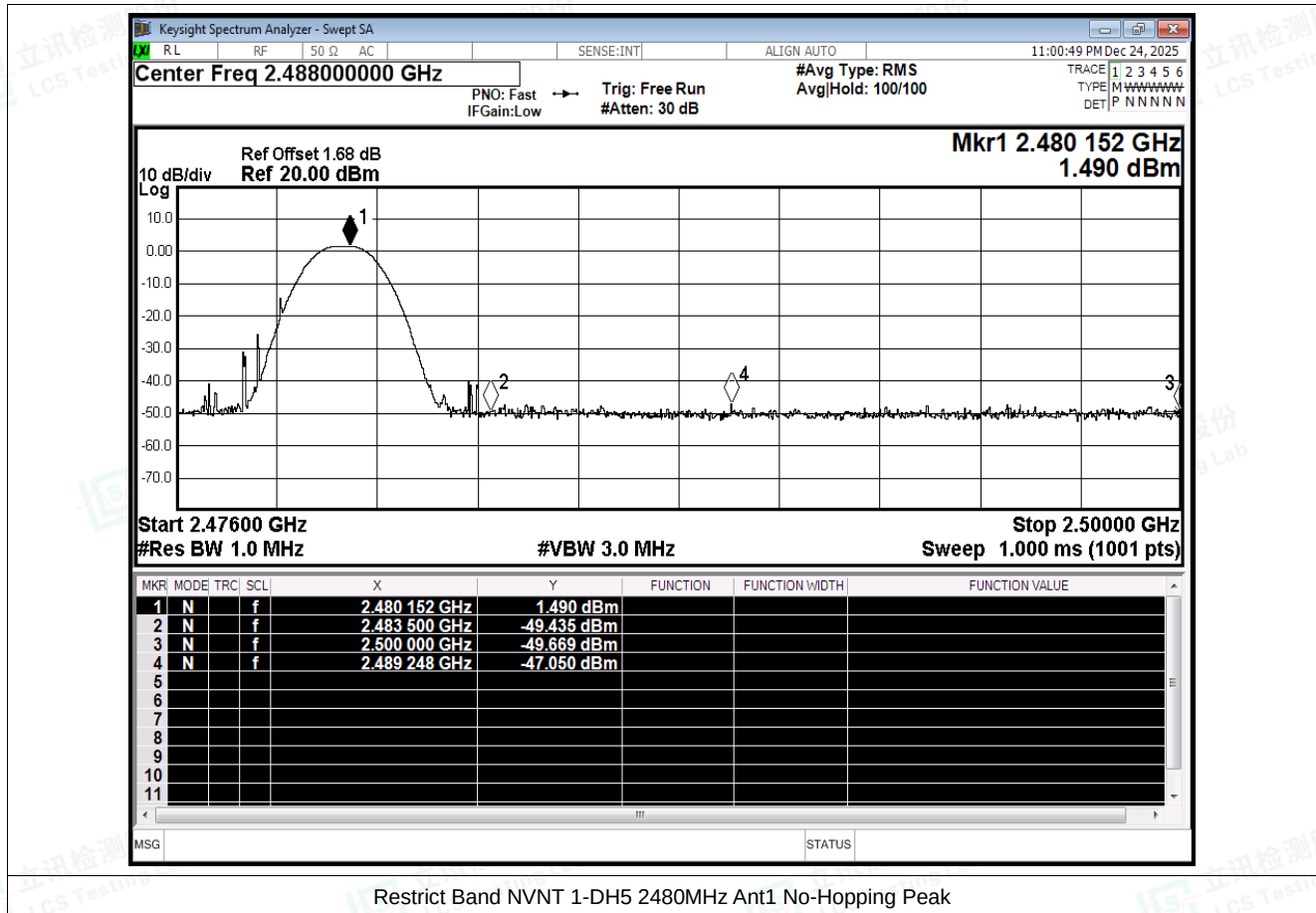
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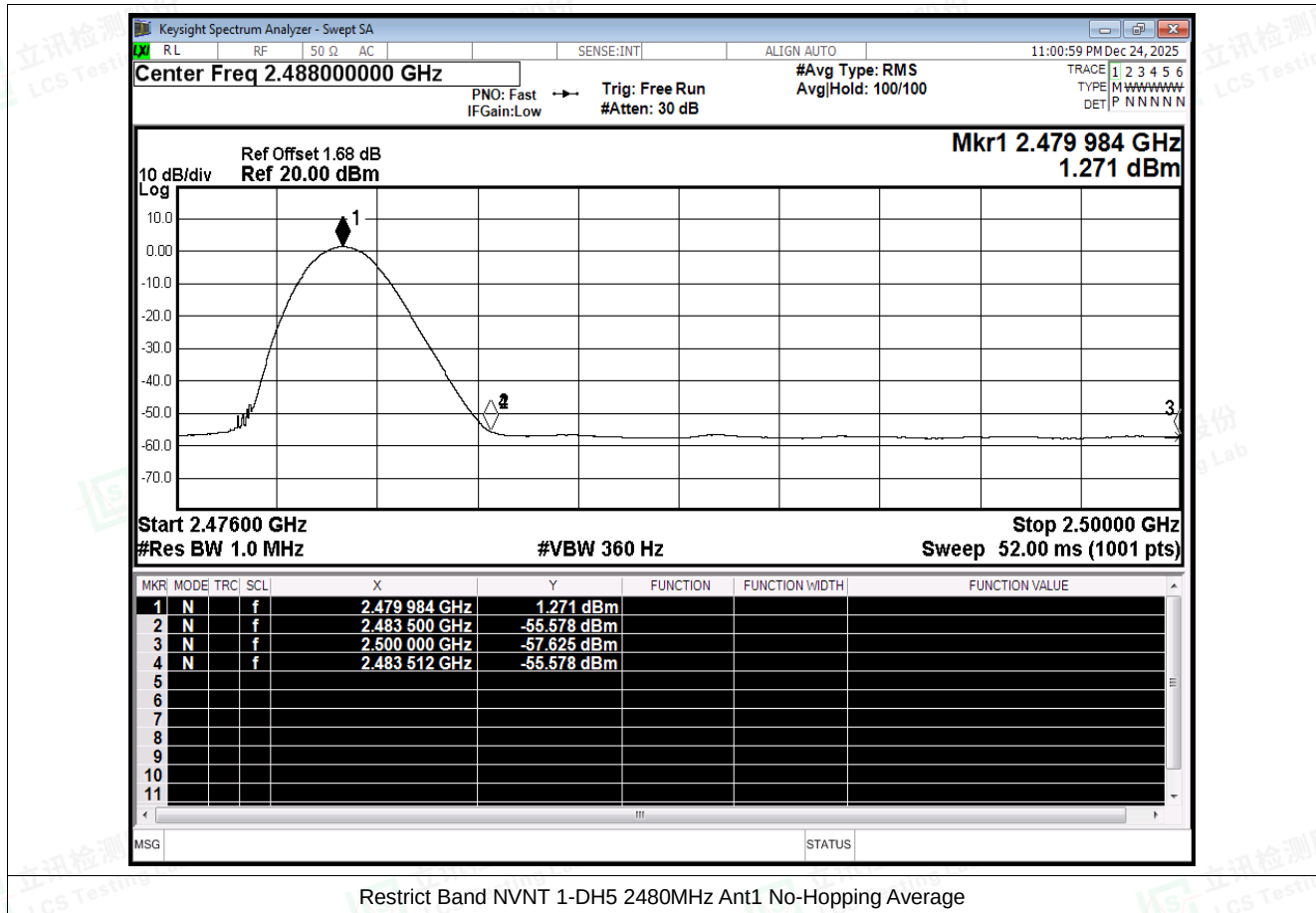
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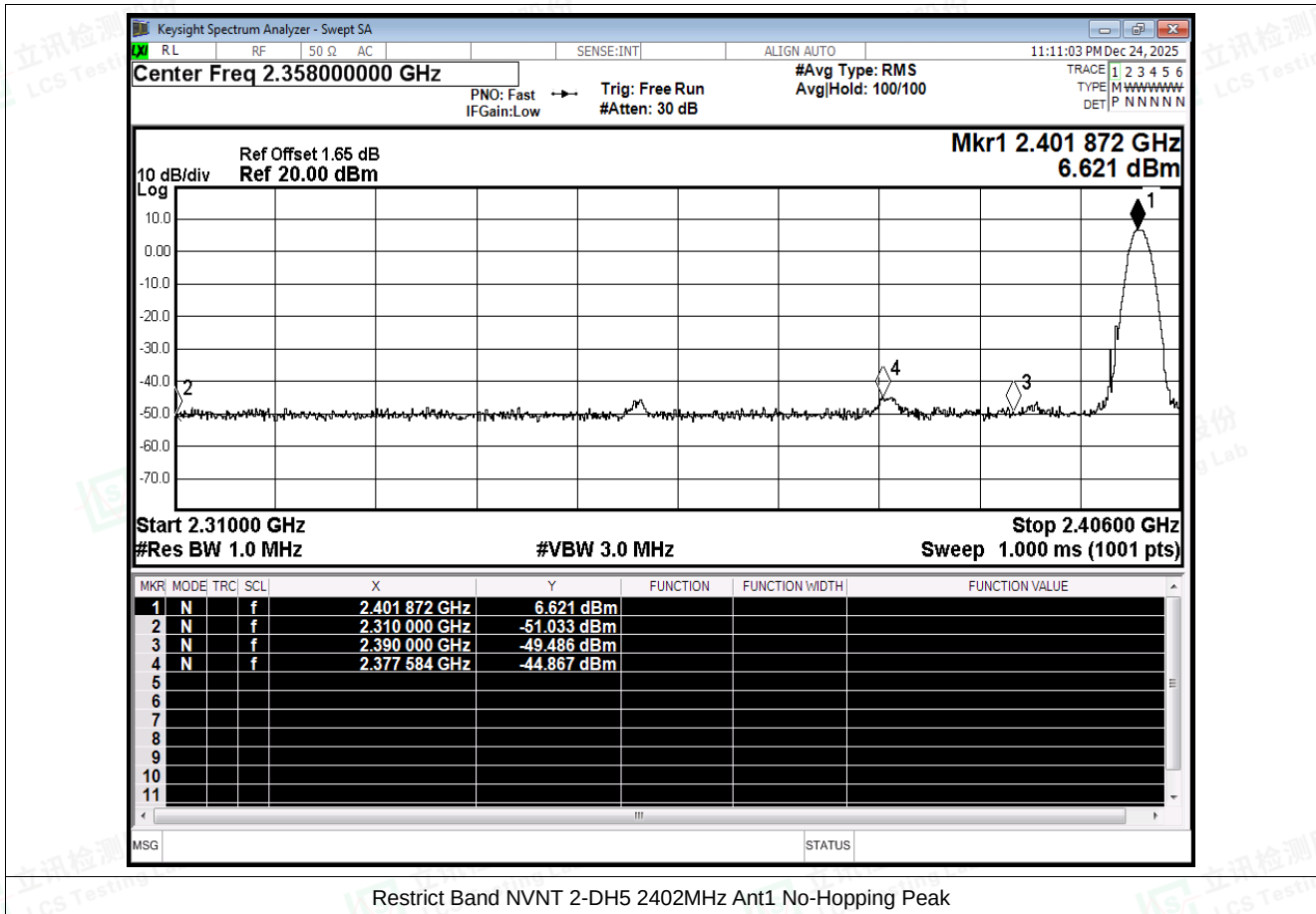
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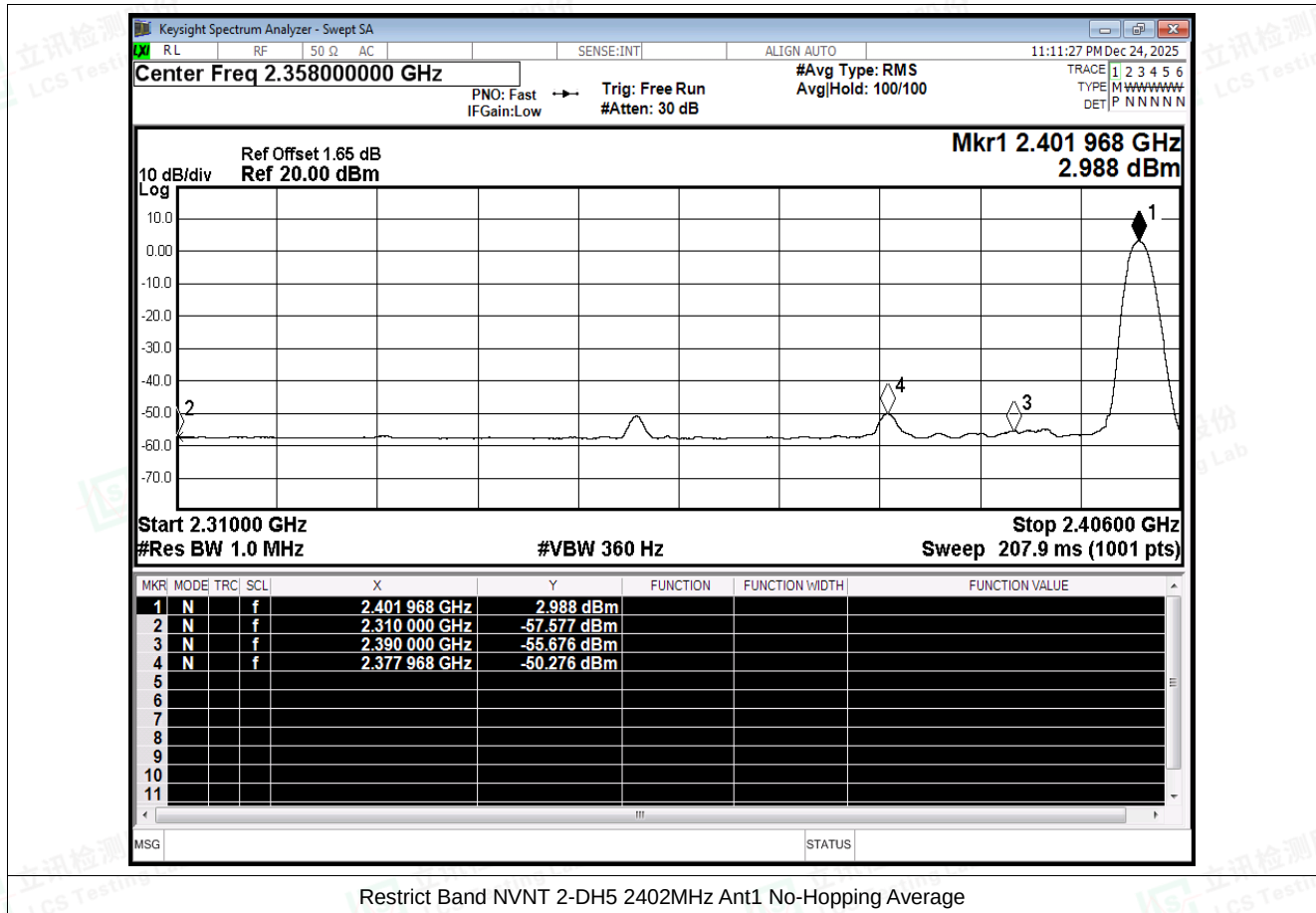
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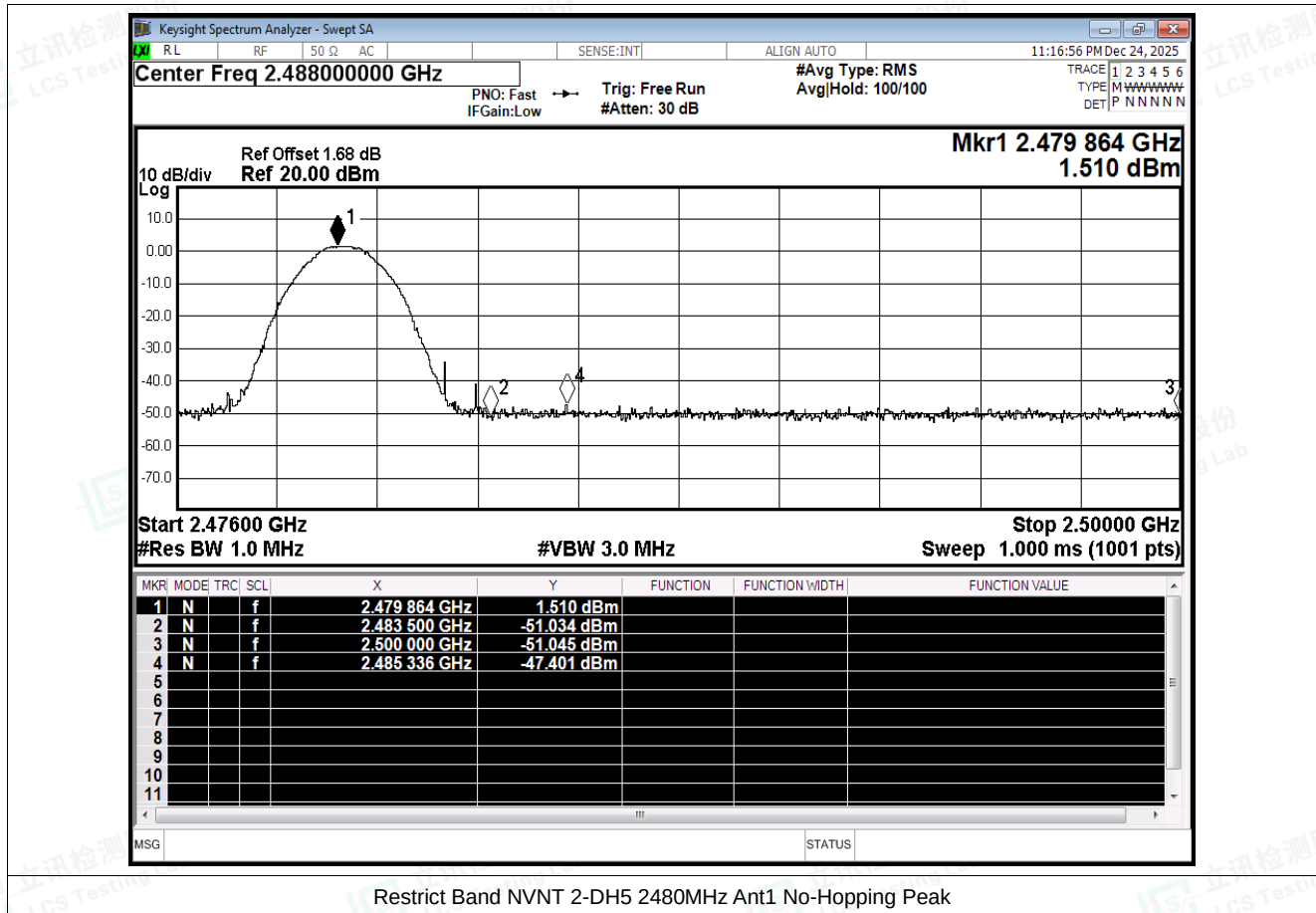
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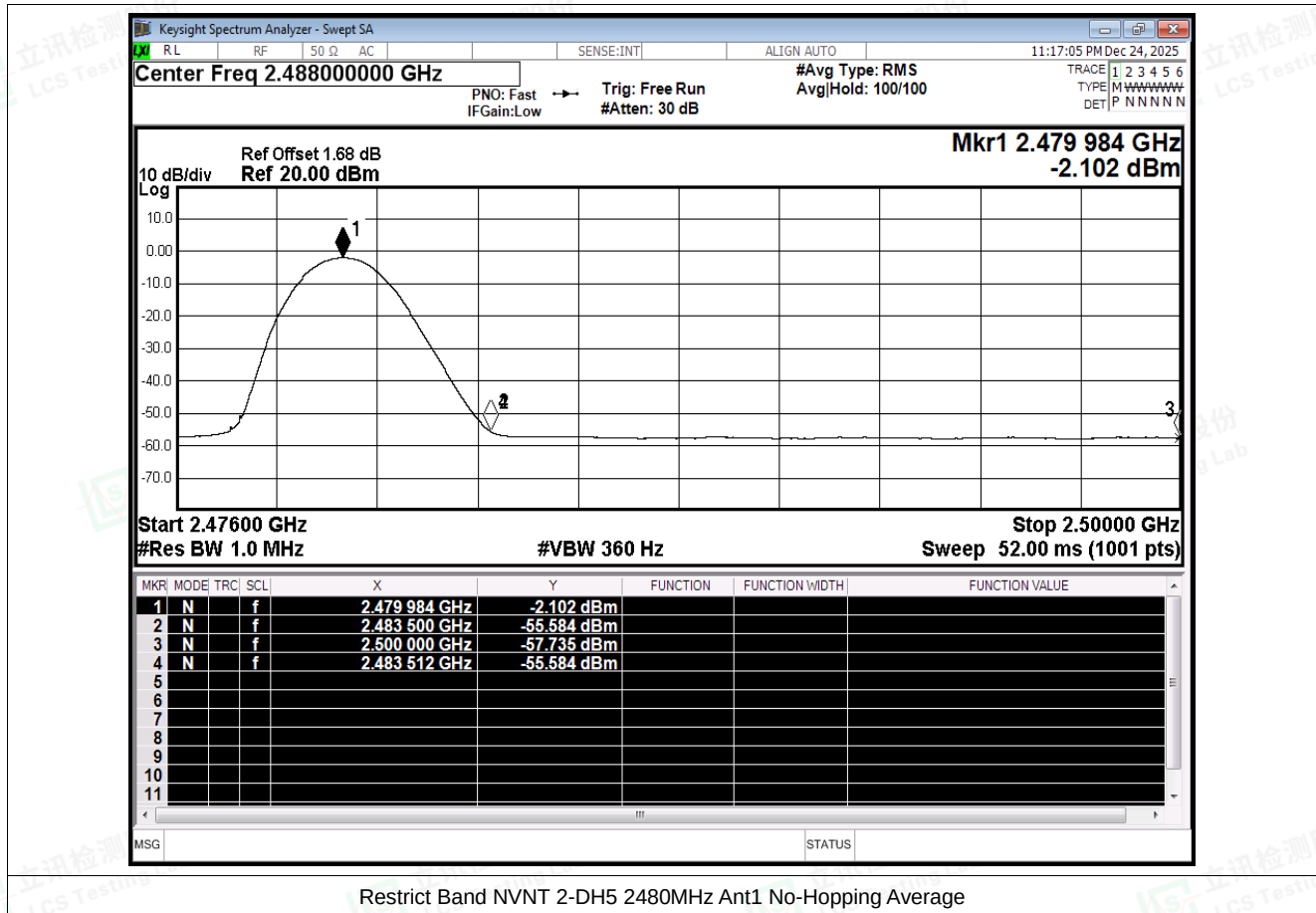
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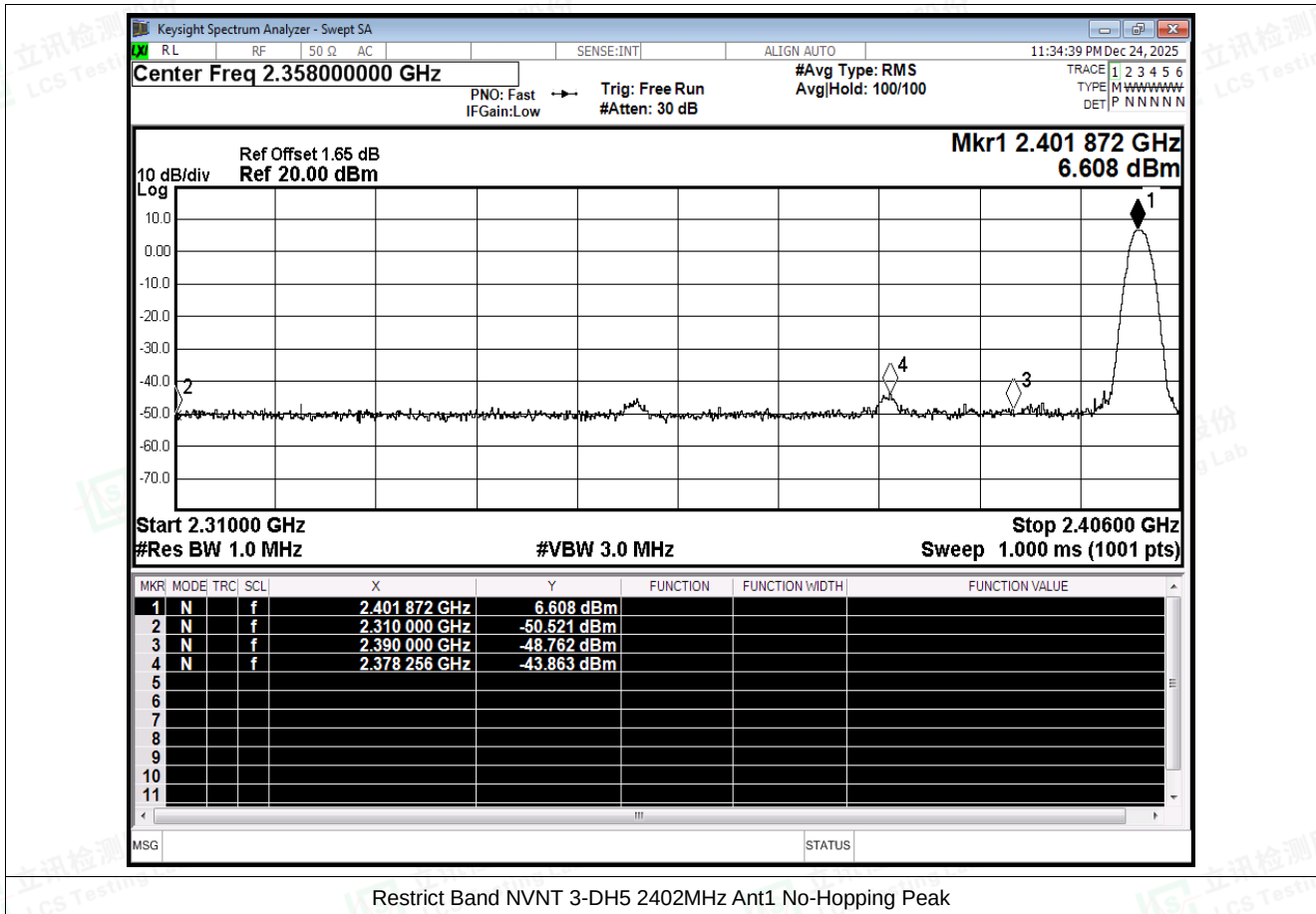
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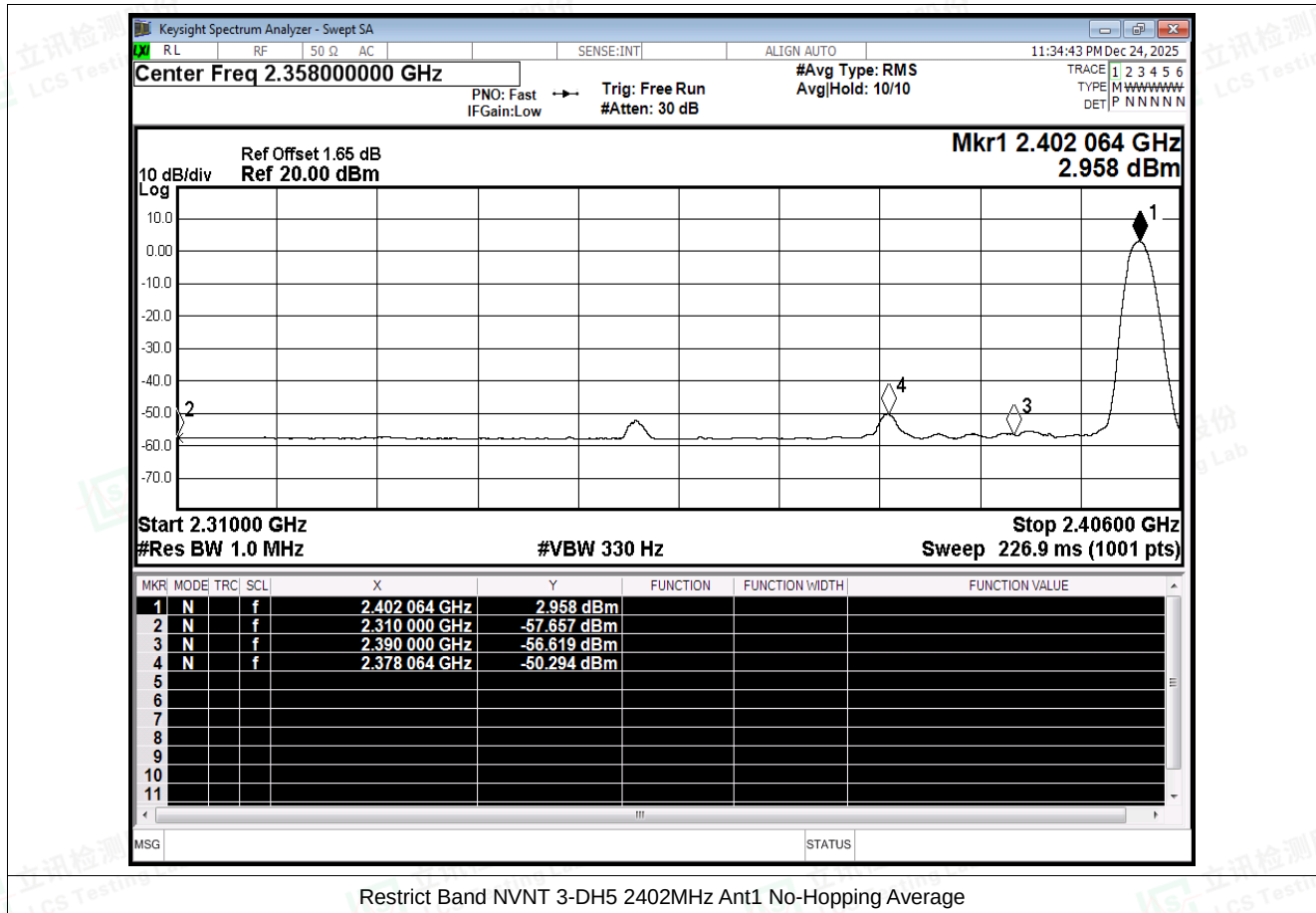
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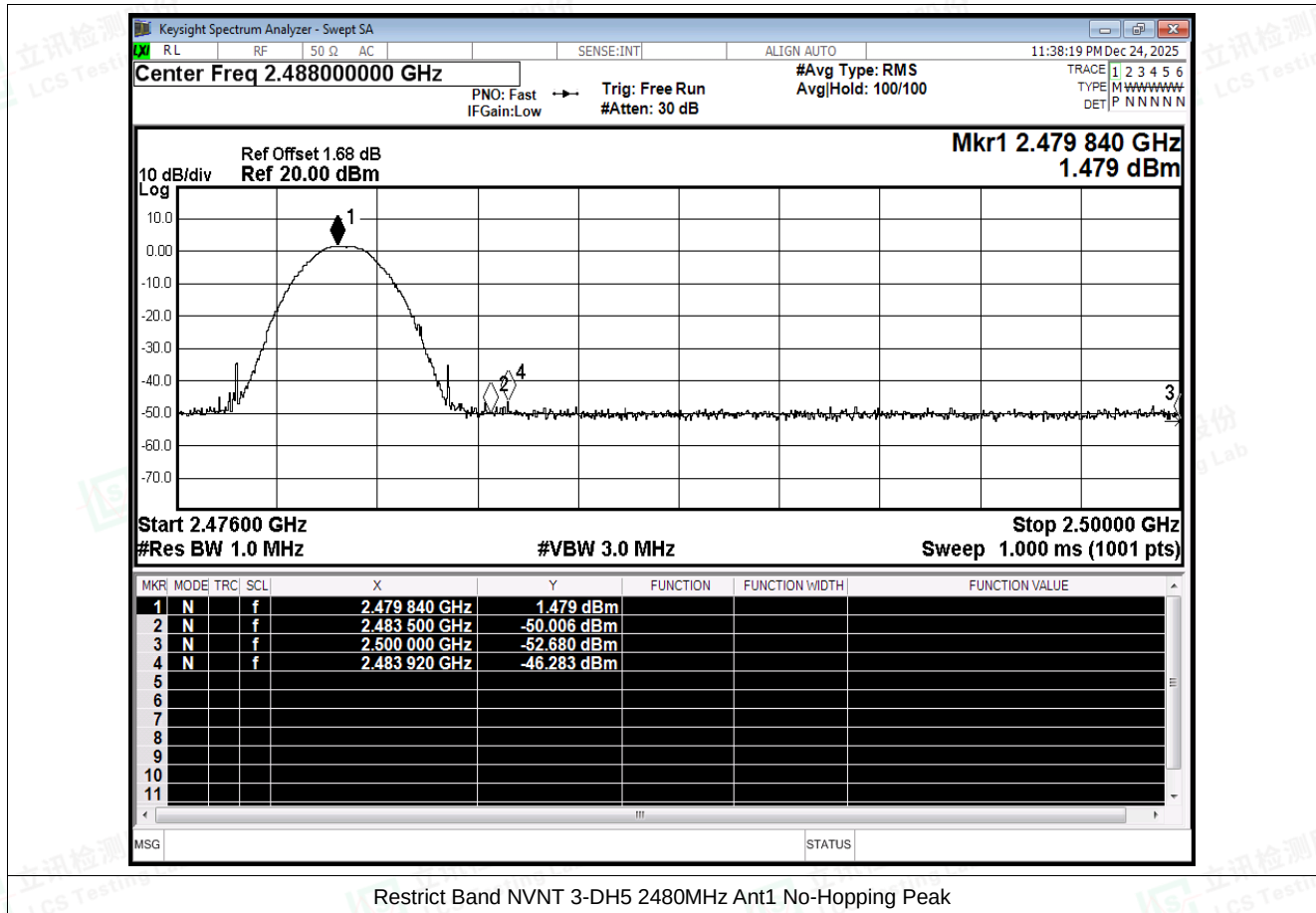
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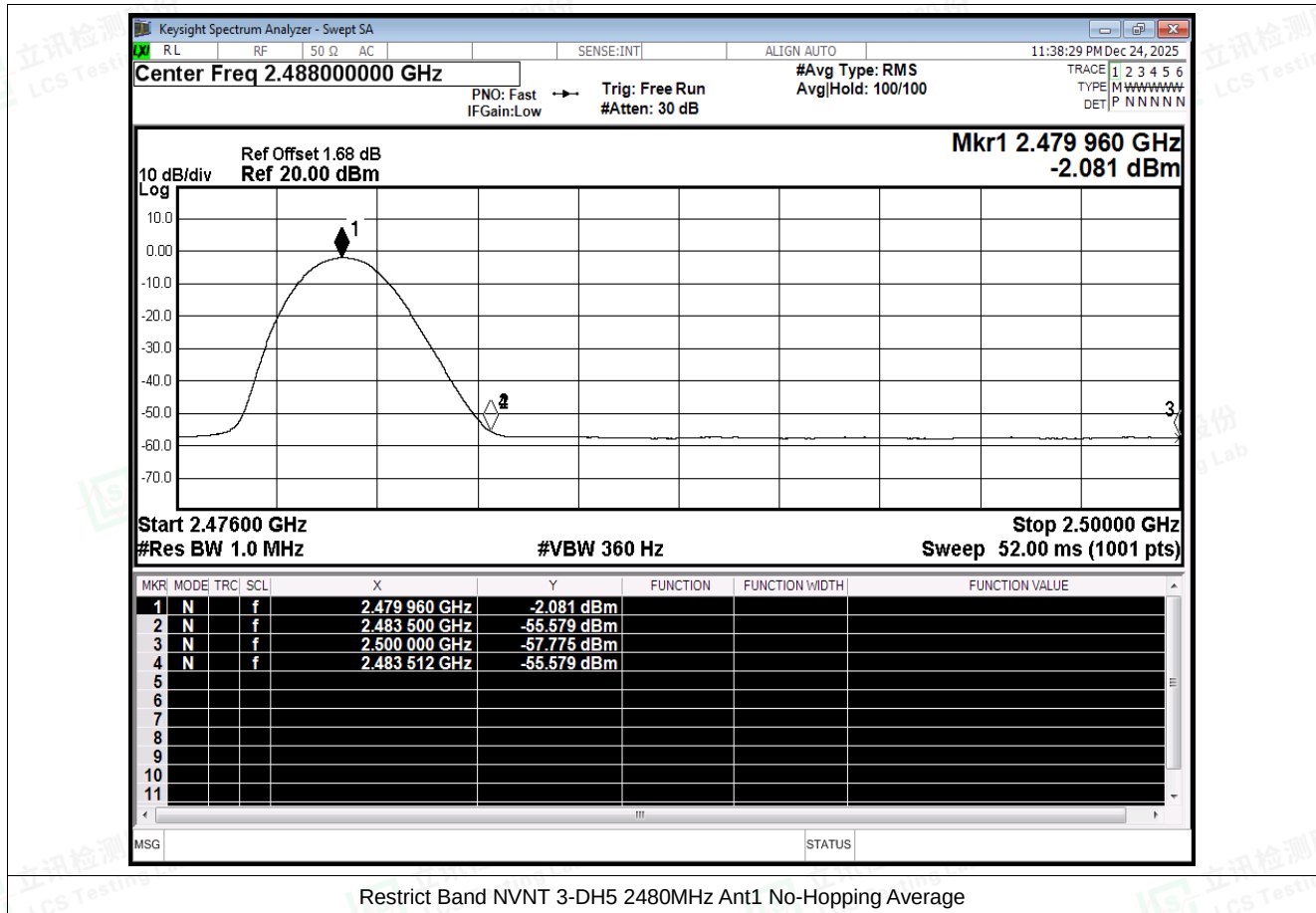
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