



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Voice Amplifier

Test Model: 24487

Environmental Conditions

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





A.1 -20dB Bandwidth

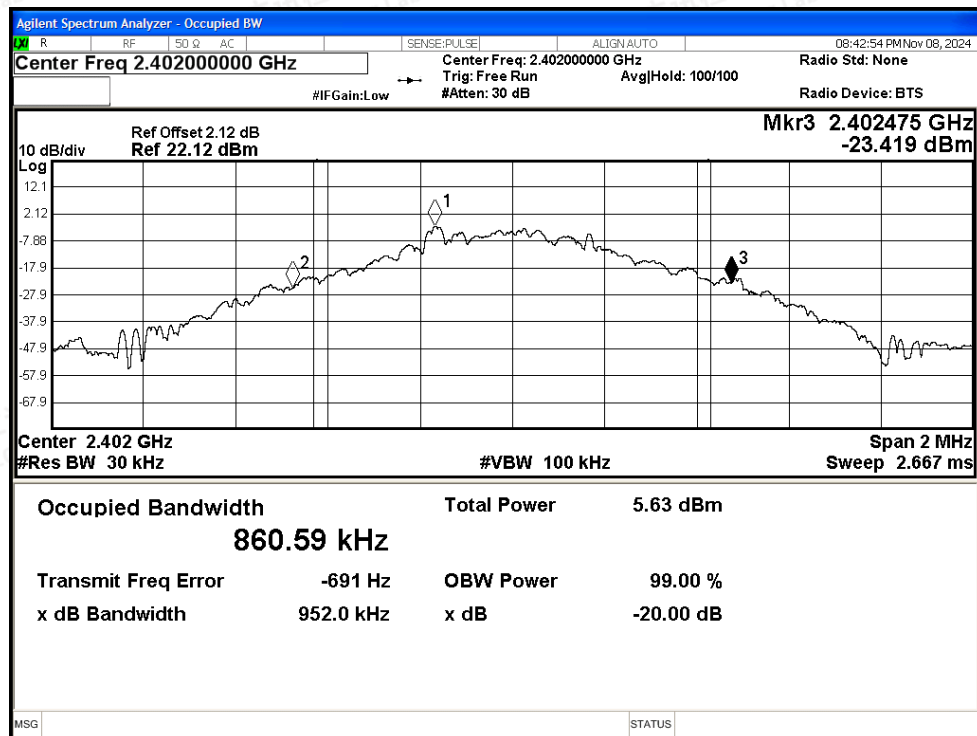
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant	0.952	N/A	Pass
NVNT	1-DH5	2441	Ant	0.958	N/A	Pass
NVNT	1-DH5	2480	Ant	0.977	N/A	Pass
NVNT	2-DH5	2402	Ant	1.283	N/A	Pass
NVNT	2-DH5	2441	Ant	1.316	N/A	Pass
NVNT	2-DH5	2480	Ant	1.315	N/A	Pass
NVNT	3-DH5	2402	Ant	1.286	N/A	Pass
NVNT	3-DH5	2441	Ant	1.296	N/A	Pass
NVNT	3-DH5	2480	Ant	1.296	N/A	Pass



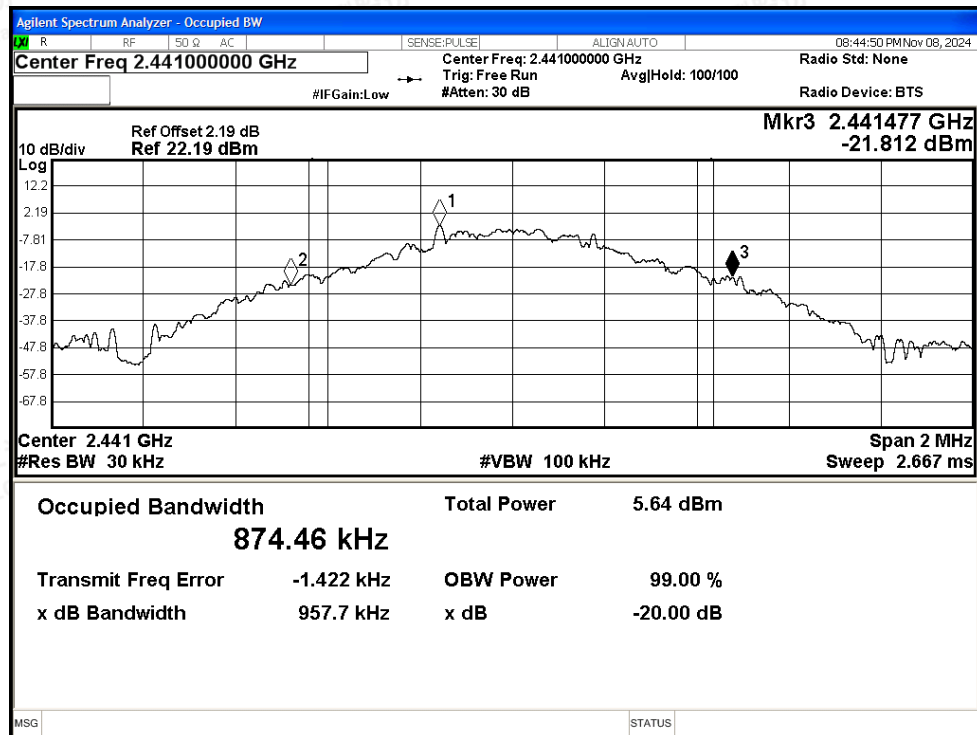


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant



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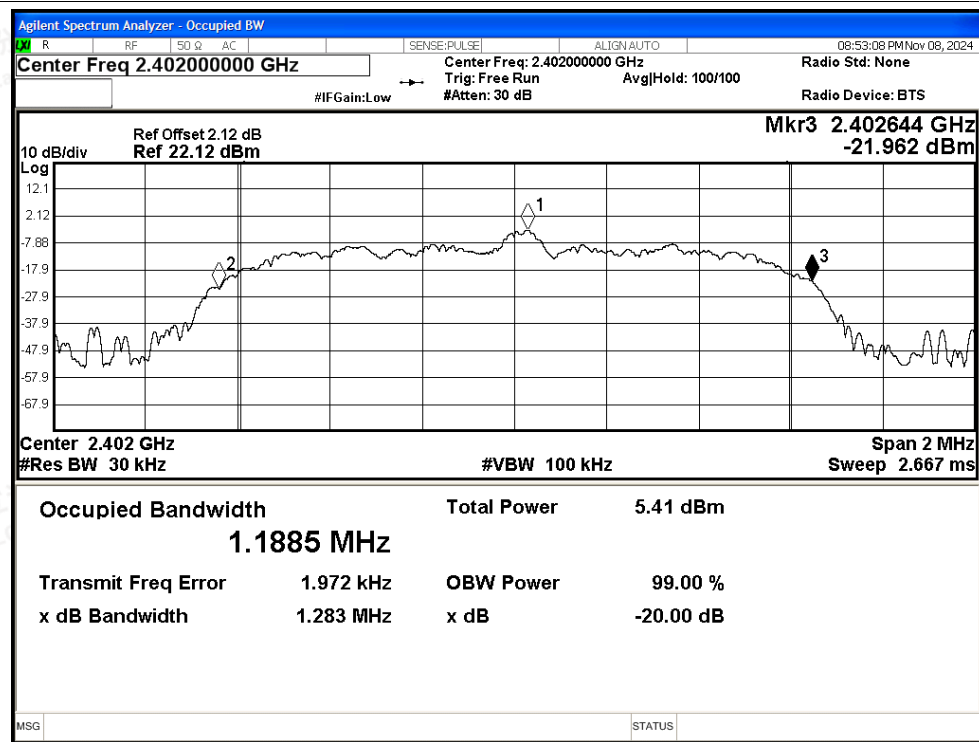
Scan code to check authenticity



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant



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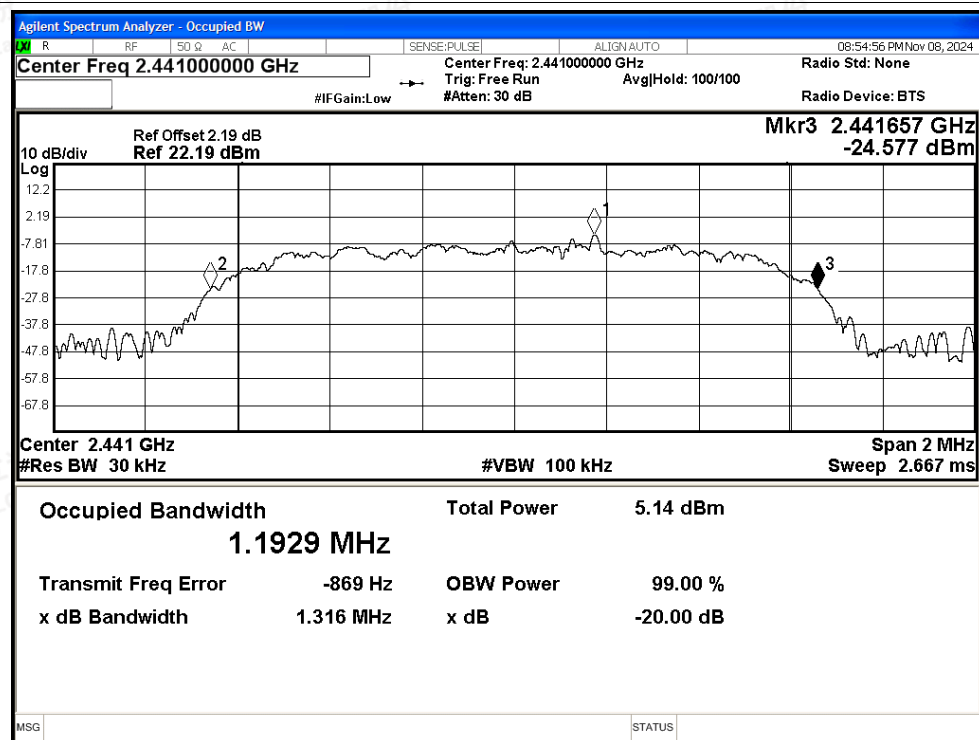
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

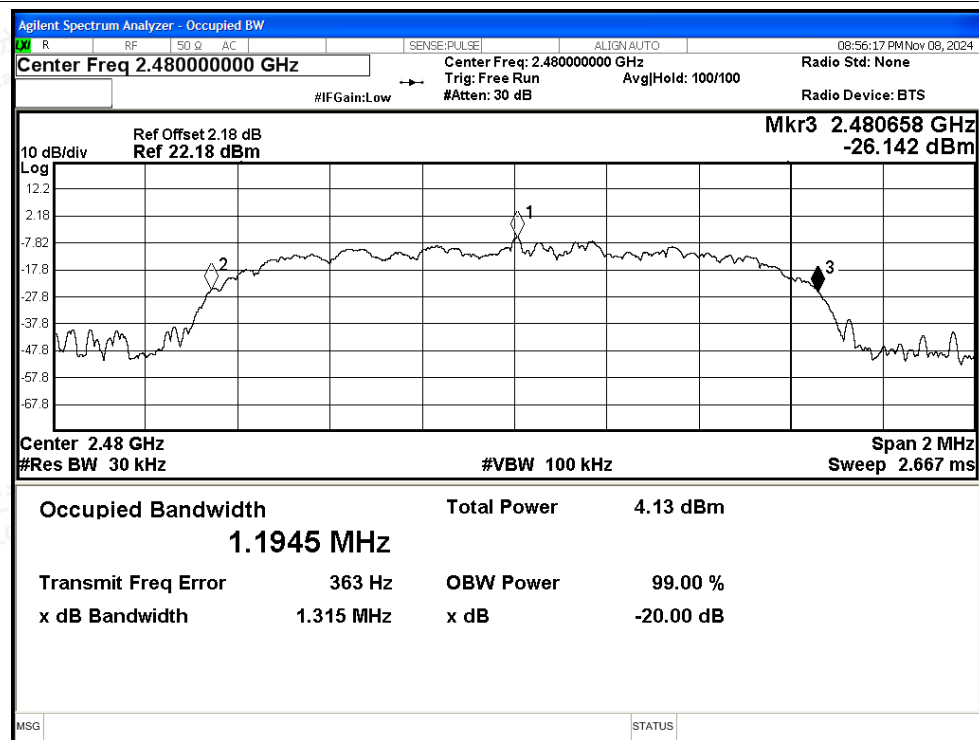
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant



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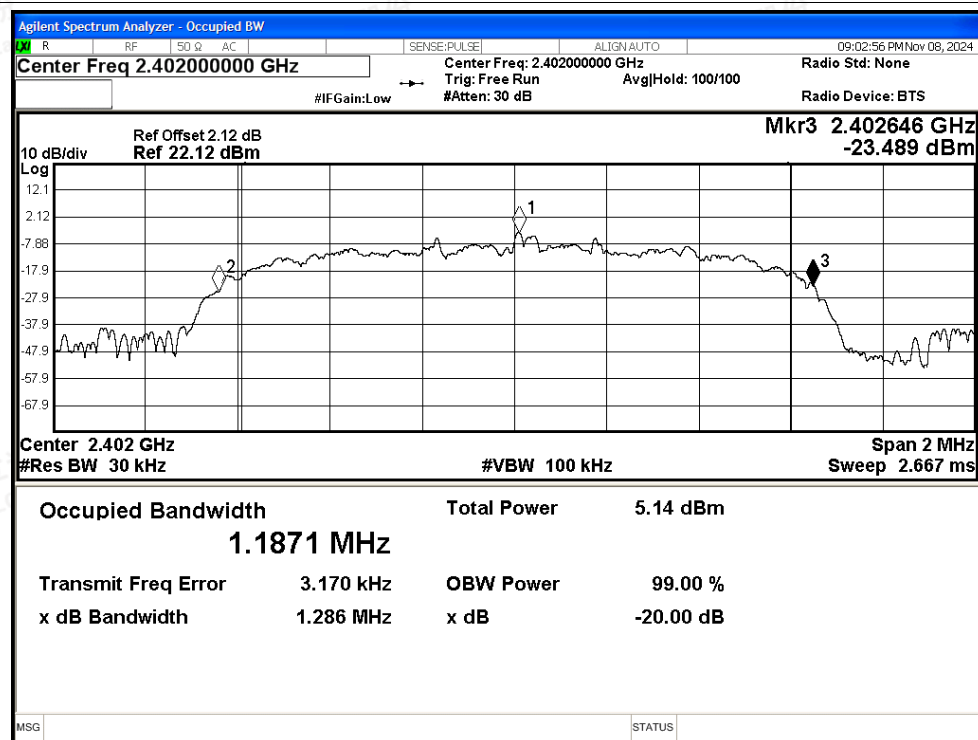
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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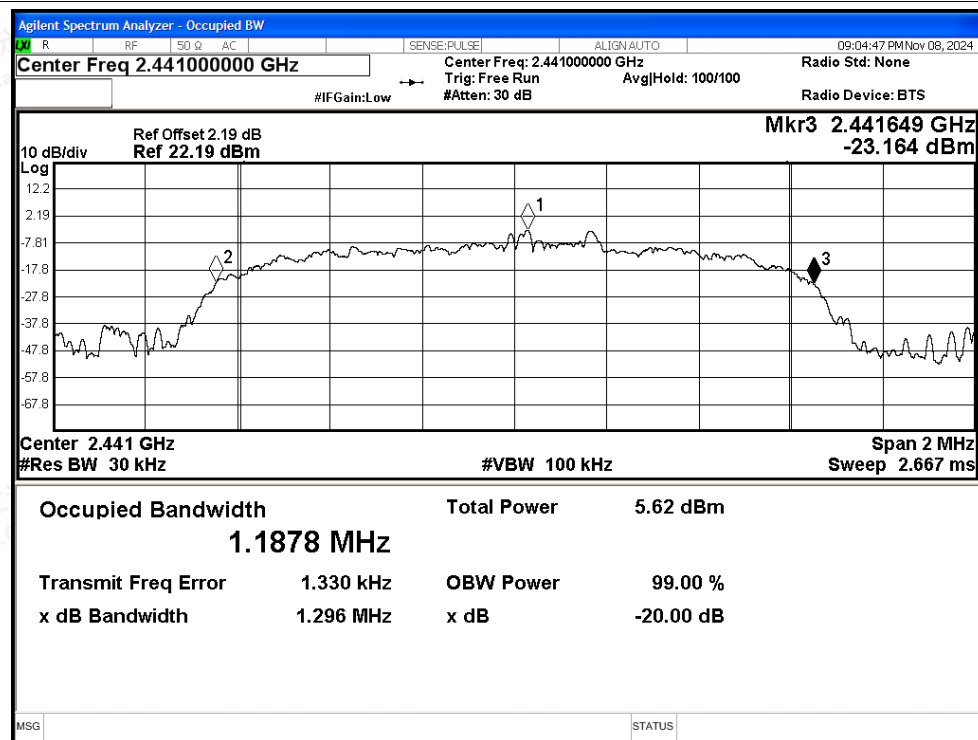
Scan code to check authenticity



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant

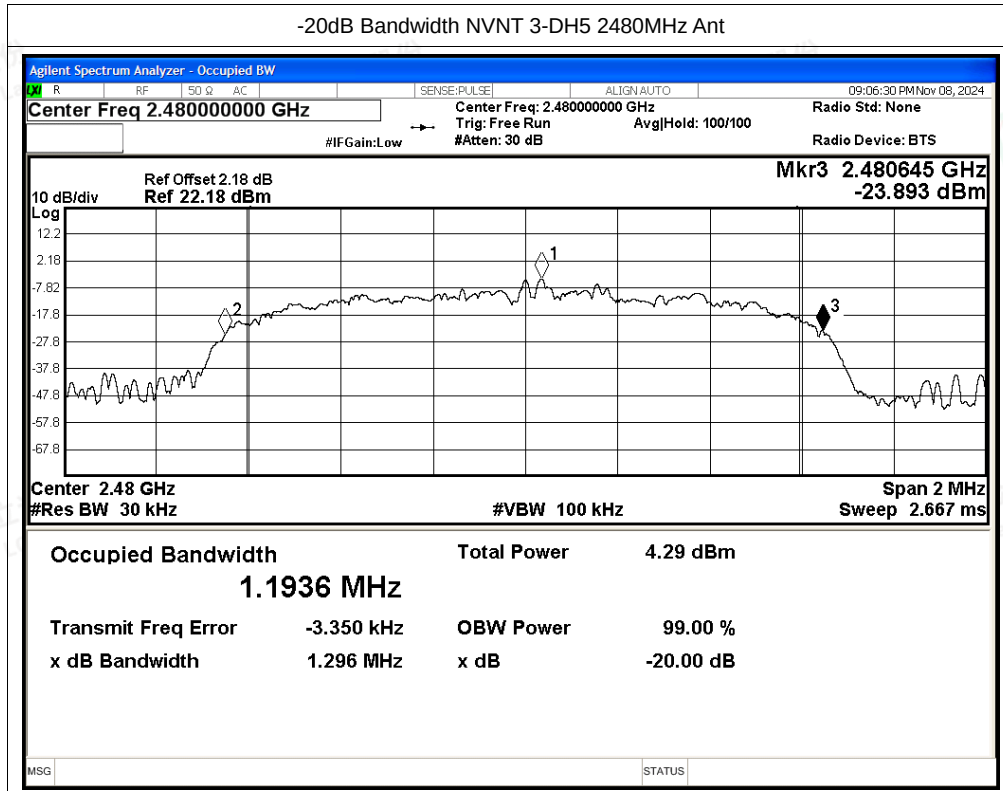


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A.2 Maximum Peak Conducted Output Power

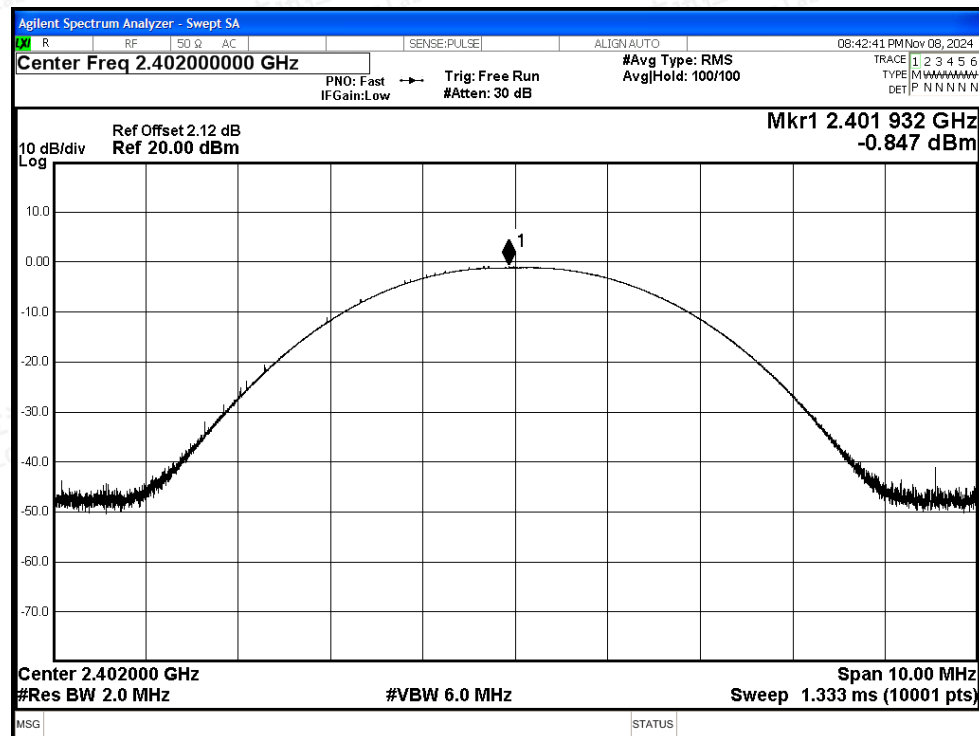
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant	-0.85	21	Pass
NVNT	1-DH5	2441	Ant	-0.87	21	Pass
NVNT	1-DH5	2480	Ant	0.87	21	Pass
NVNT	2-DH5	2402	Ant	0.96	21	Pass
NVNT	2-DH5	2441	Ant	1.21	21	Pass
NVNT	2-DH5	2480	Ant	0.02	21	Pass
NVNT	3-DH5	2402	Ant	1.07	21	Pass
NVNT	3-DH5	2441	Ant	1.36	21	Pass
NVNT	3-DH5	2480	Ant	0.29	21	Pass



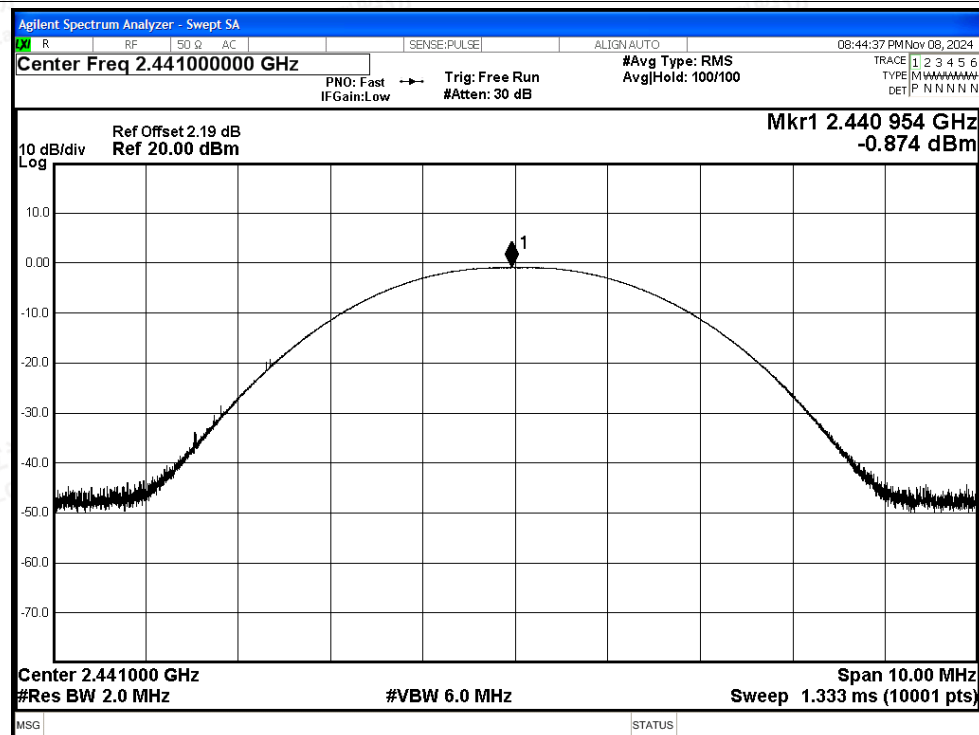


Test Graphs

Power NVNT 1-DH5 2402MHz Ant



Power NVNT 1-DH5 2441MHz Ant



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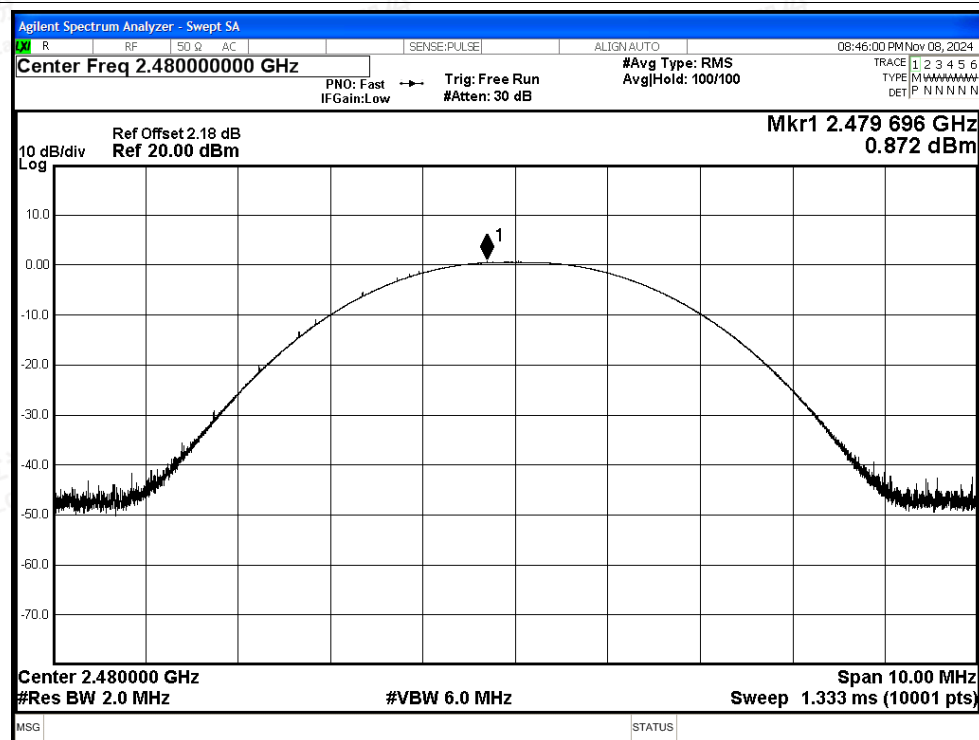
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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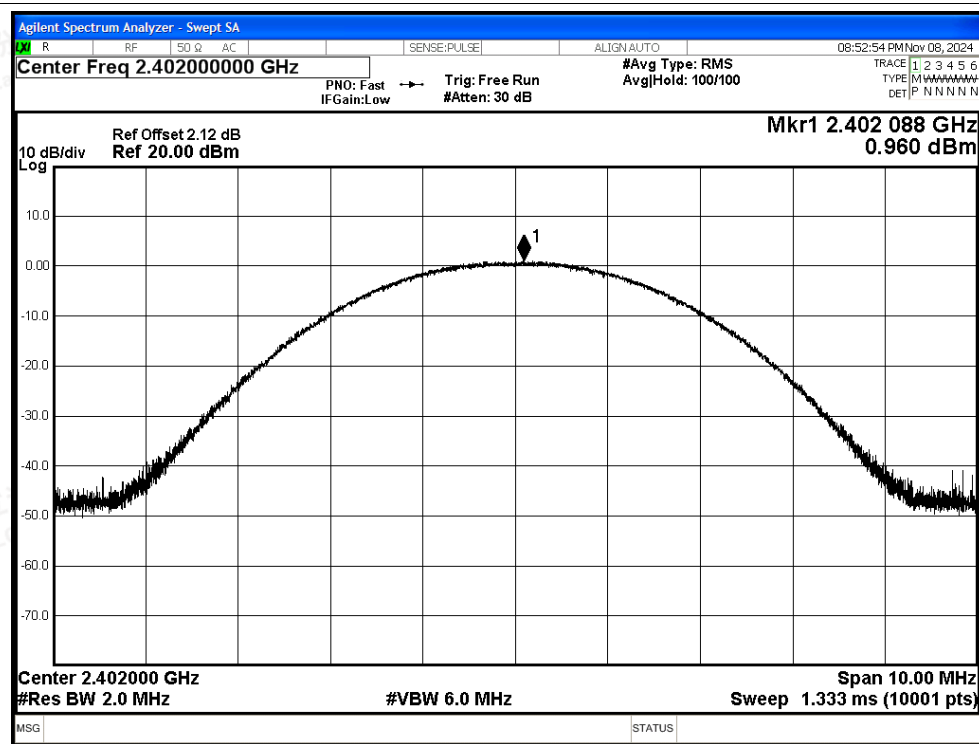
Scan code to check authenticity



Power NVNT 1-DH5 2480MHz Ant



Power NVNT 2-DH5 2402MHz Ant



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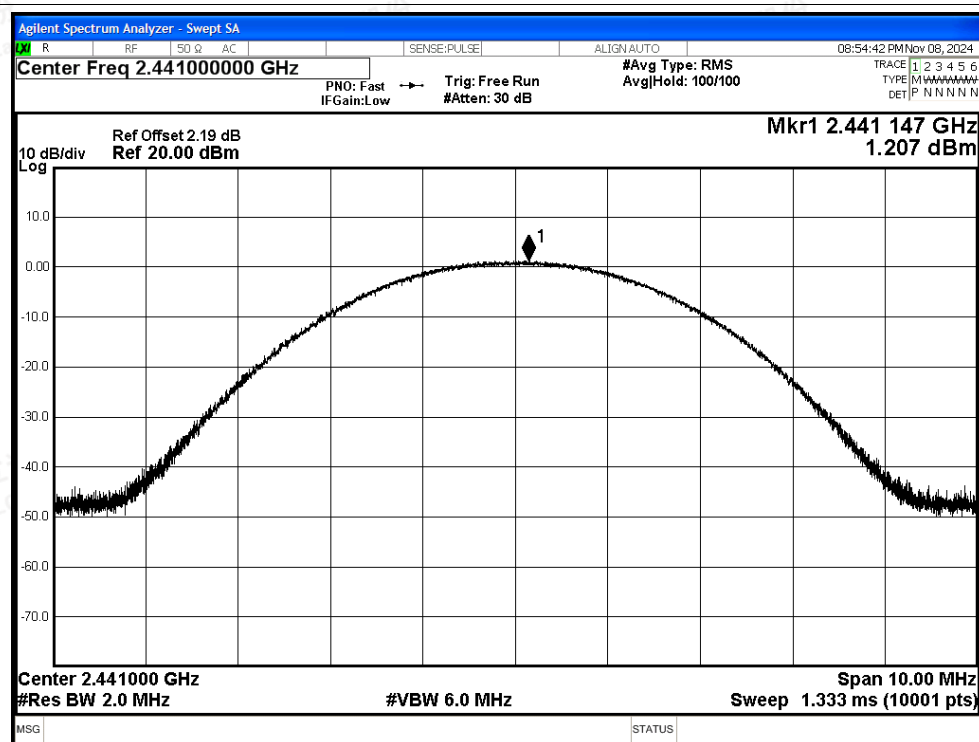
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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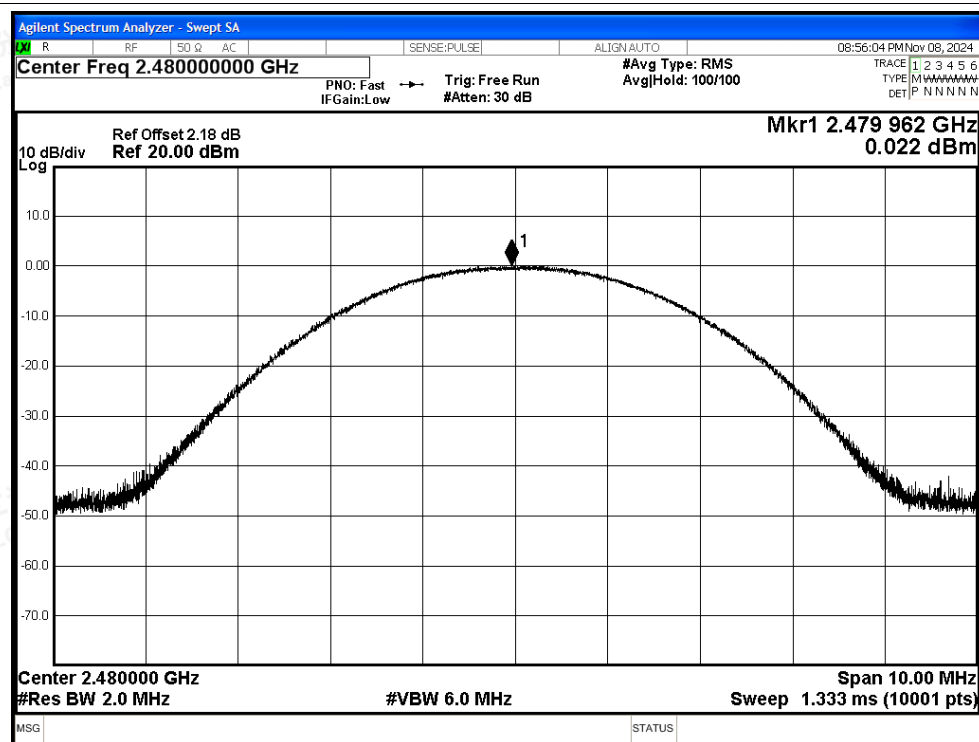
Scan code to check authenticity



Power NVNT 2-DH5 2441MHz Ant



Power NVNT 2-DH5 2480MHz Ant



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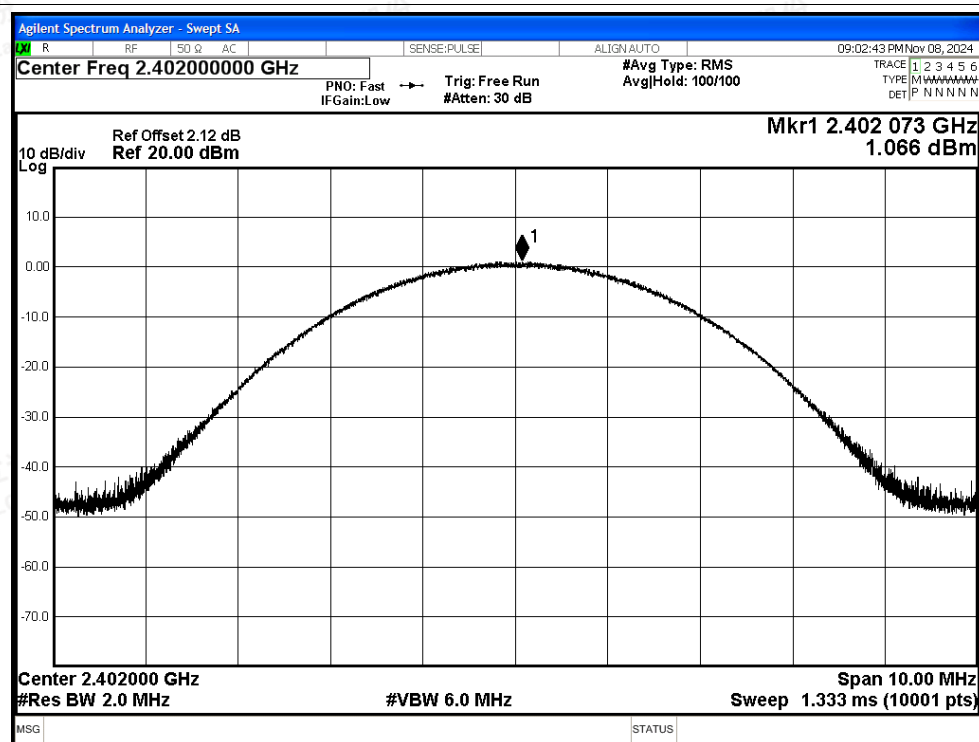
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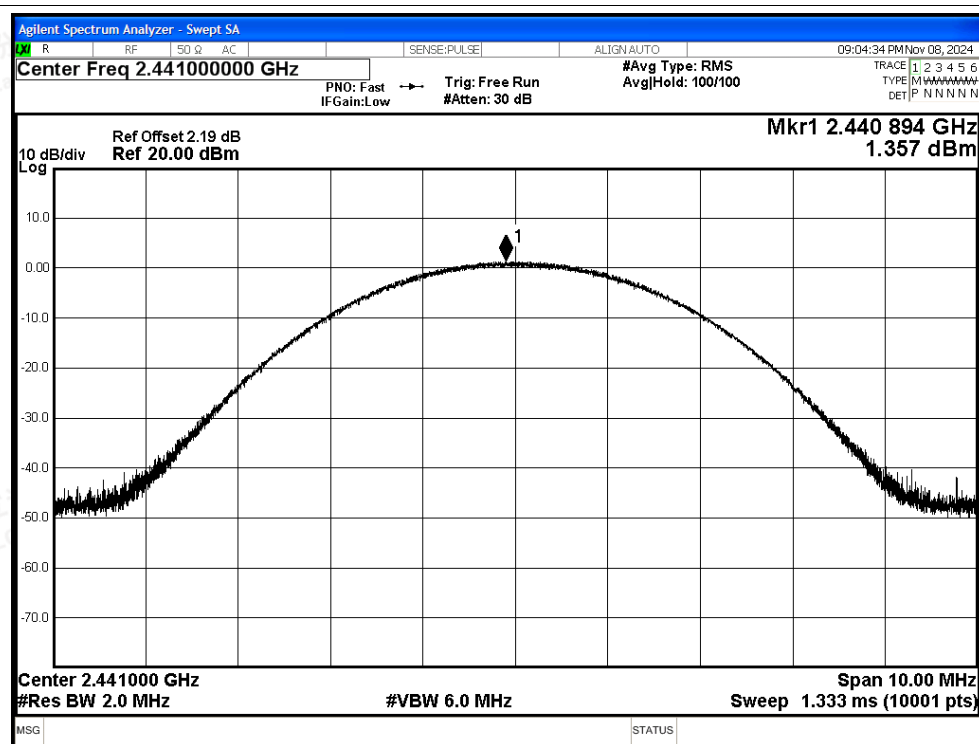
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Power NVNT 3-DH5 2402MHz Ant



Power NVNT 3-DH5 2441MHz Ant

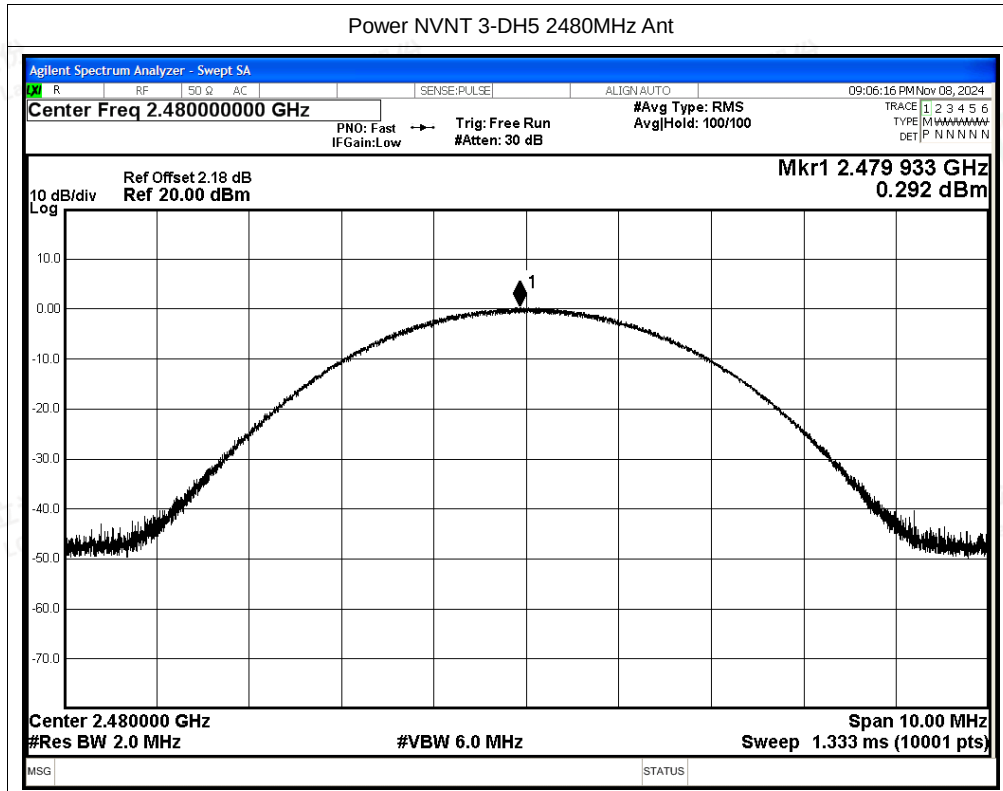


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A.3 Carrier Frequencies Separation

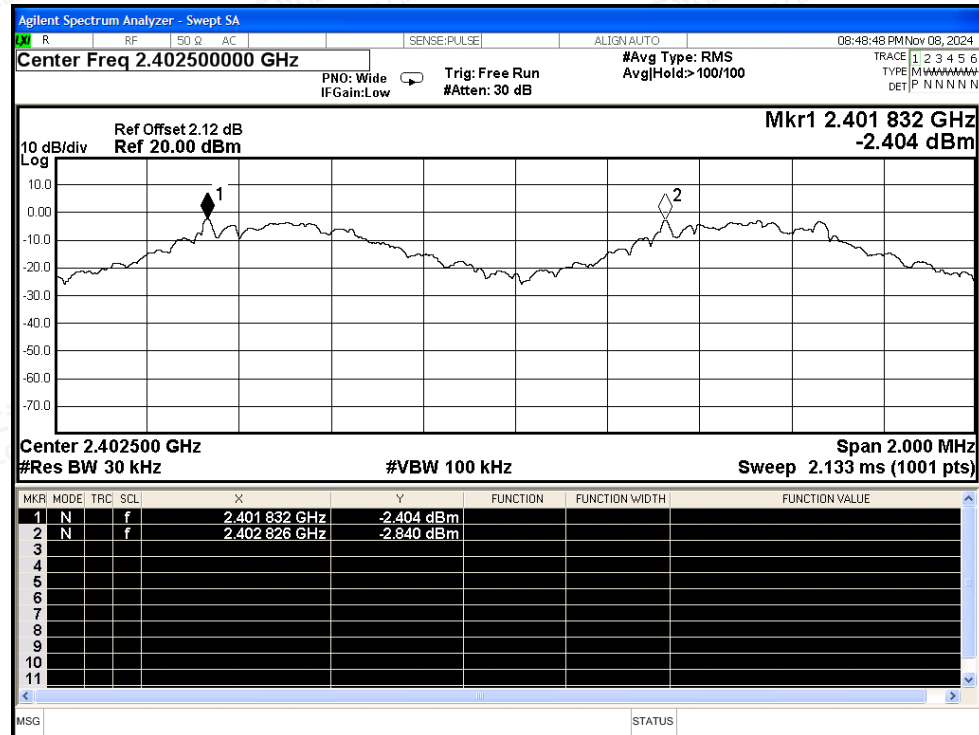
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant	2401.832	2402.826	0.994	0.651	Pass
NVNT	2-DH5	Ant	2402.002	2403	0.998	0.877	Pass
NVNT	3-DH5	Ant	2402.026	2403.164	1.138	0.864	Pass



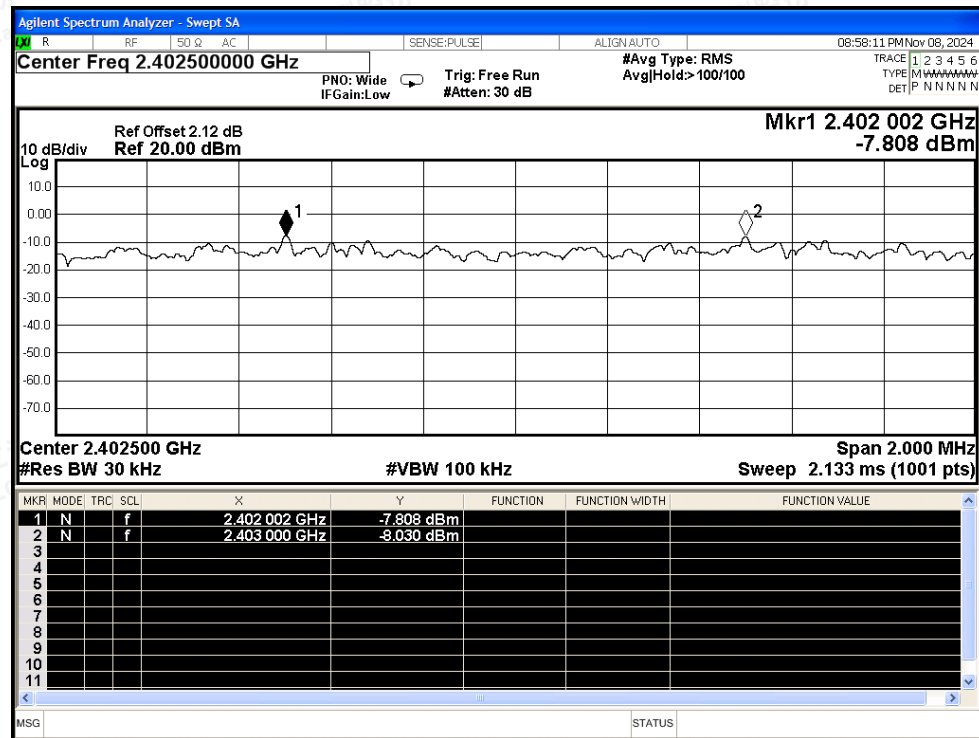


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant



CFS NVNT 2-DH5 2402MHz Ant

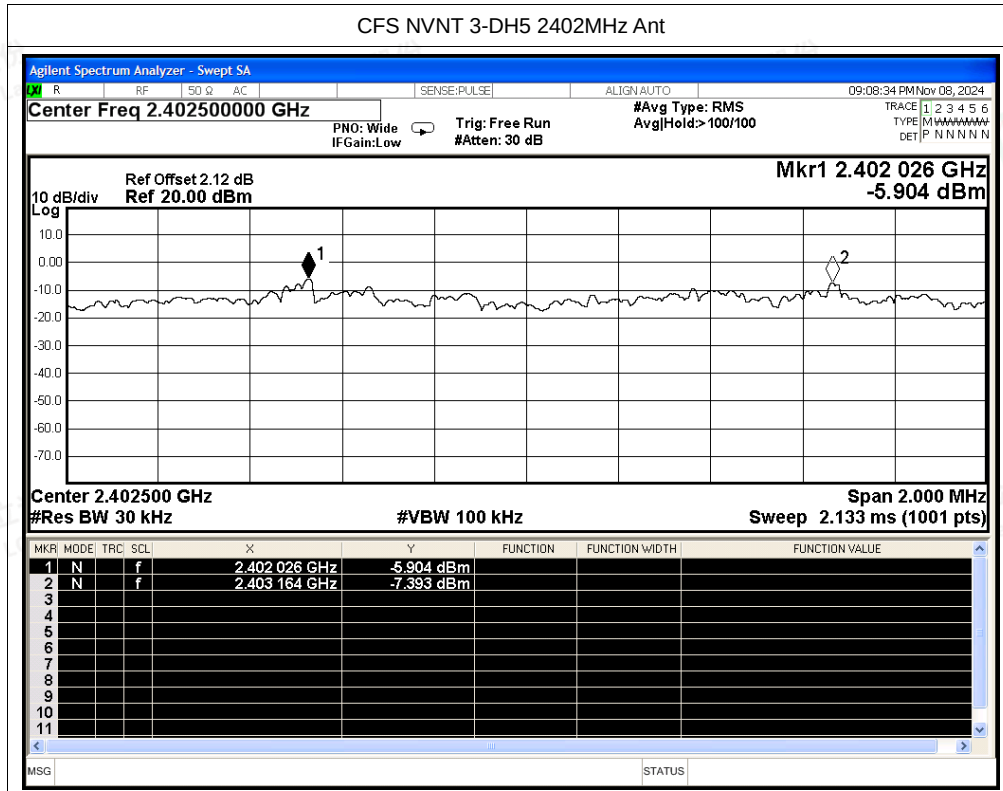


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A.4 Dwell Time

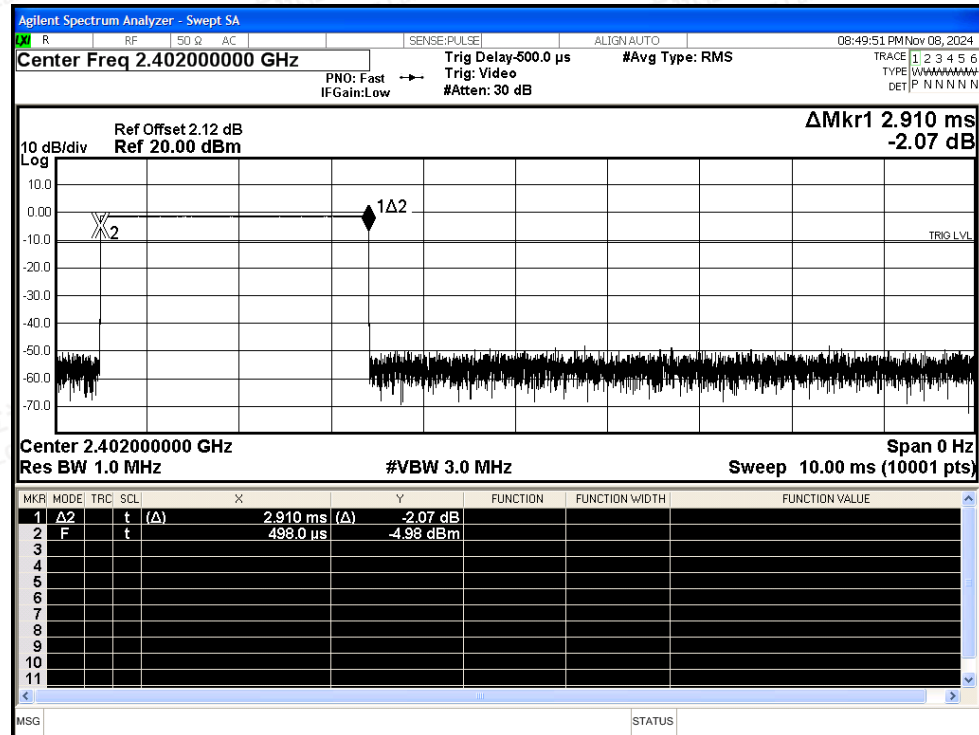
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant	2.91	302.64	104	31600	400	Pass
NVNT	2-DH5	2402	Ant	2.898	307.188	106	31600	400	Pass
NVNT	3-DH5	2402	Ant	2.897	304.185	105	31600	400	Pass



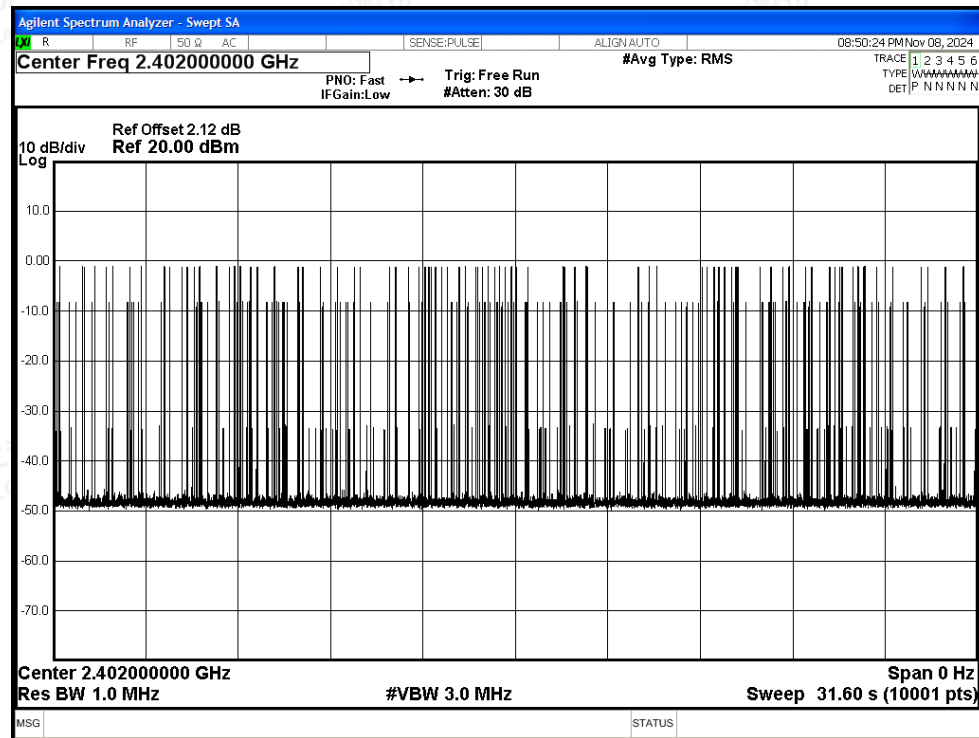


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant One Burst



Dwell NVNT 1-DH5 2402MHz Ant Accumulated



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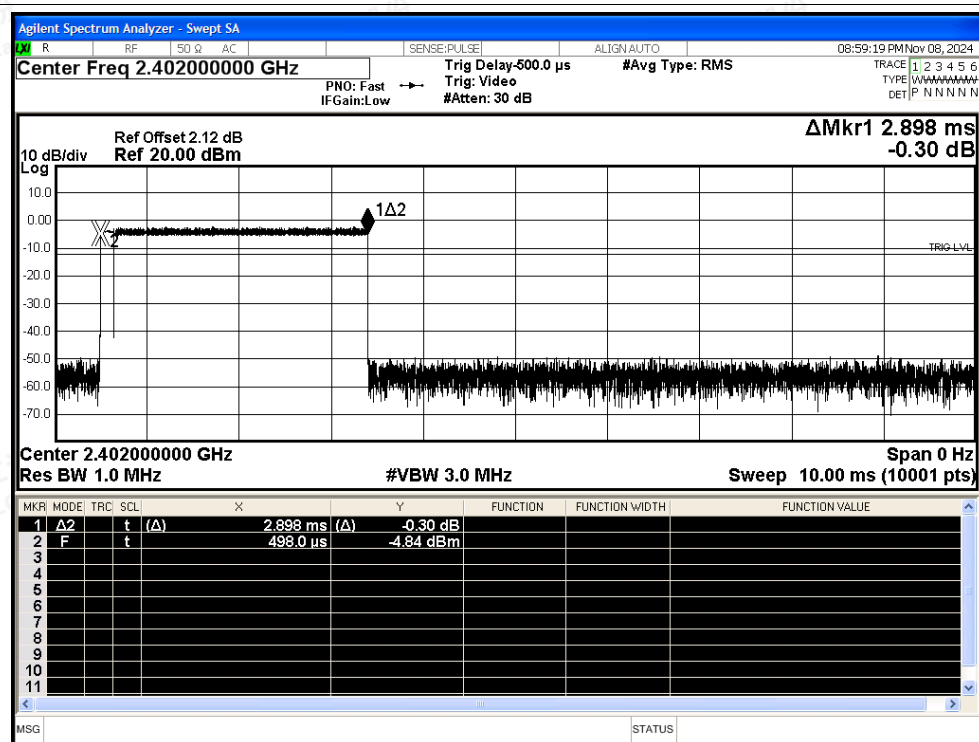
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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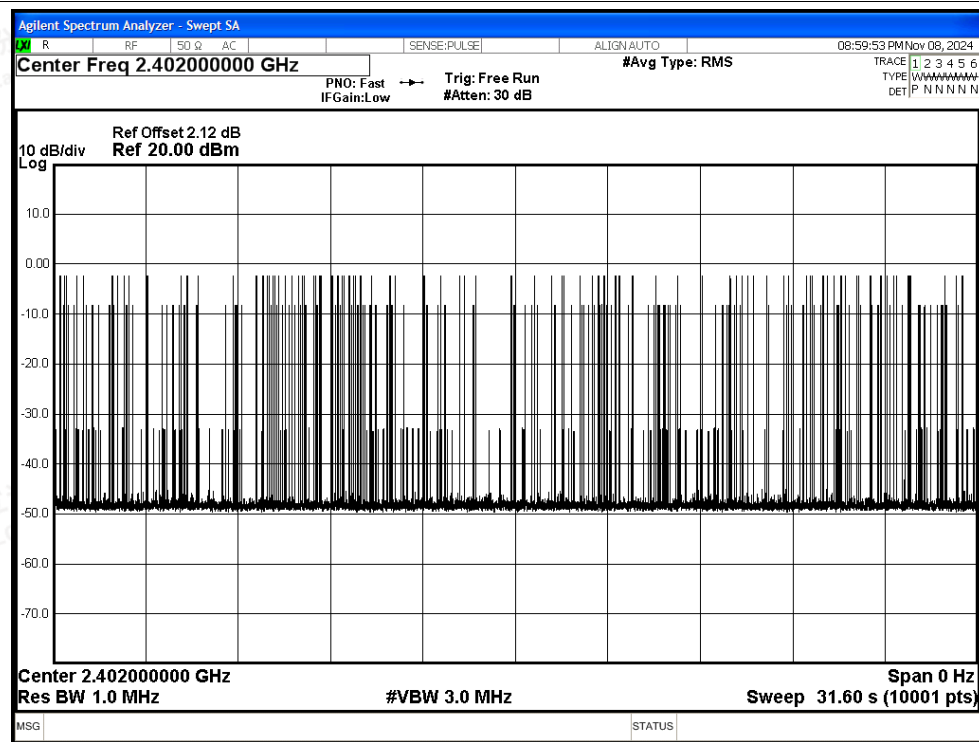
Scan code to check authenticity



Dwell NVNT 2-DH5 2402MHz Ant One Burst



Dwell NVNT 2-DH5 2402MHz Ant Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

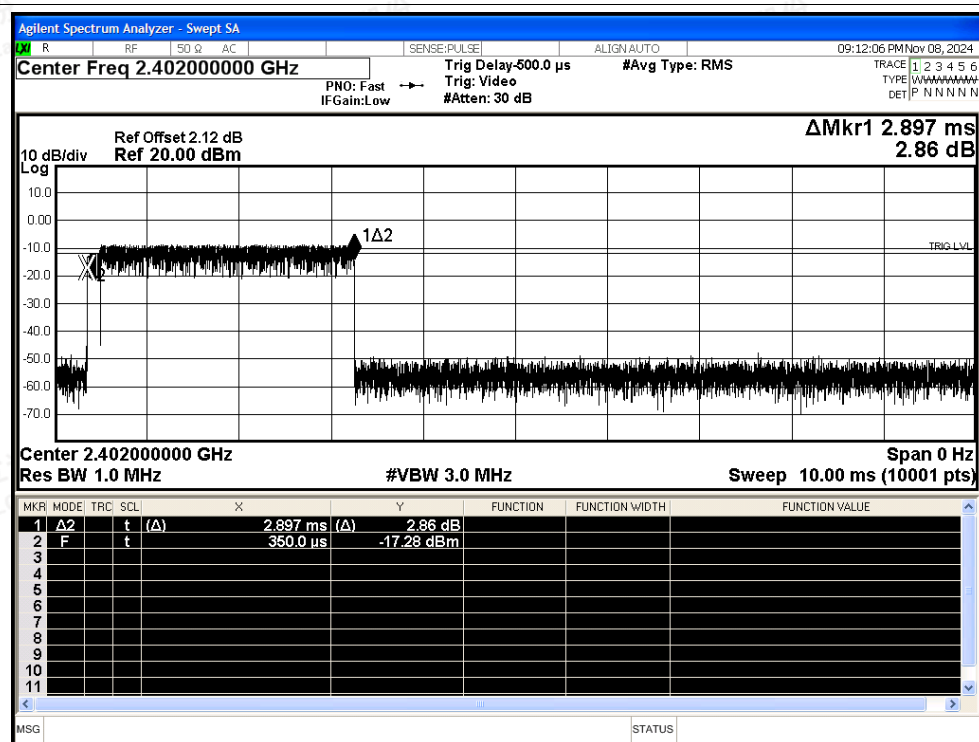
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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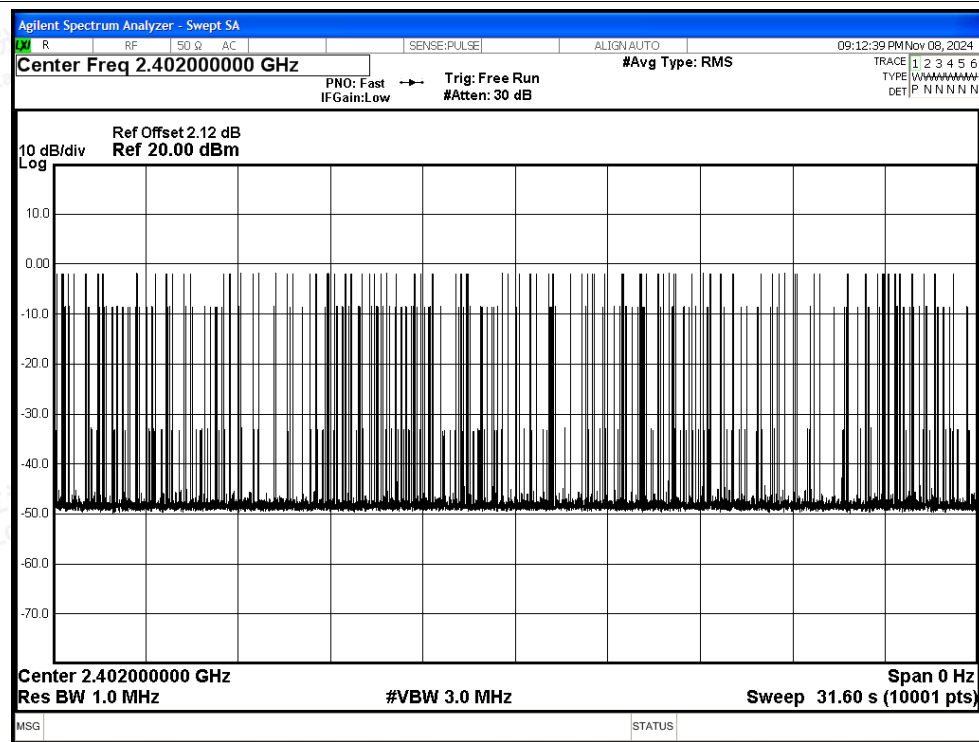
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Dwell NVNT 3-DH5 2402MHz Ant One Burst



Dwell NVNT 3-DH5 2402MHz Ant Accumulated



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A.5 Number of Hopping Channel

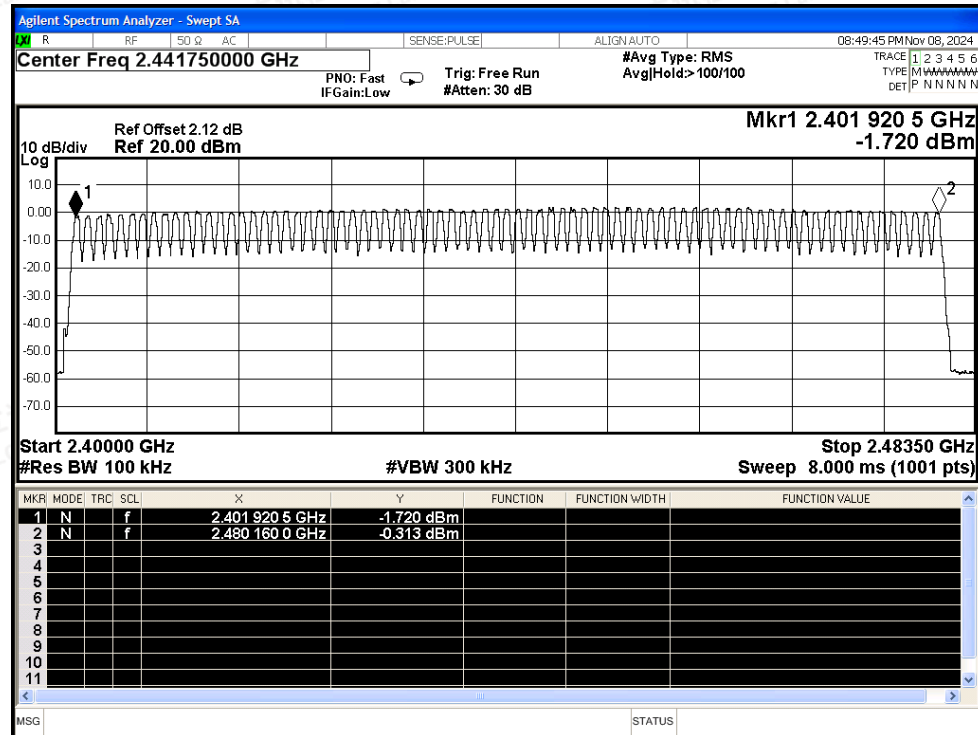
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant	79	15	Pass
NVNT	2-DH5	Ant	79	15	Pass
NVNT	3-DH5	Ant	79	15	Pass



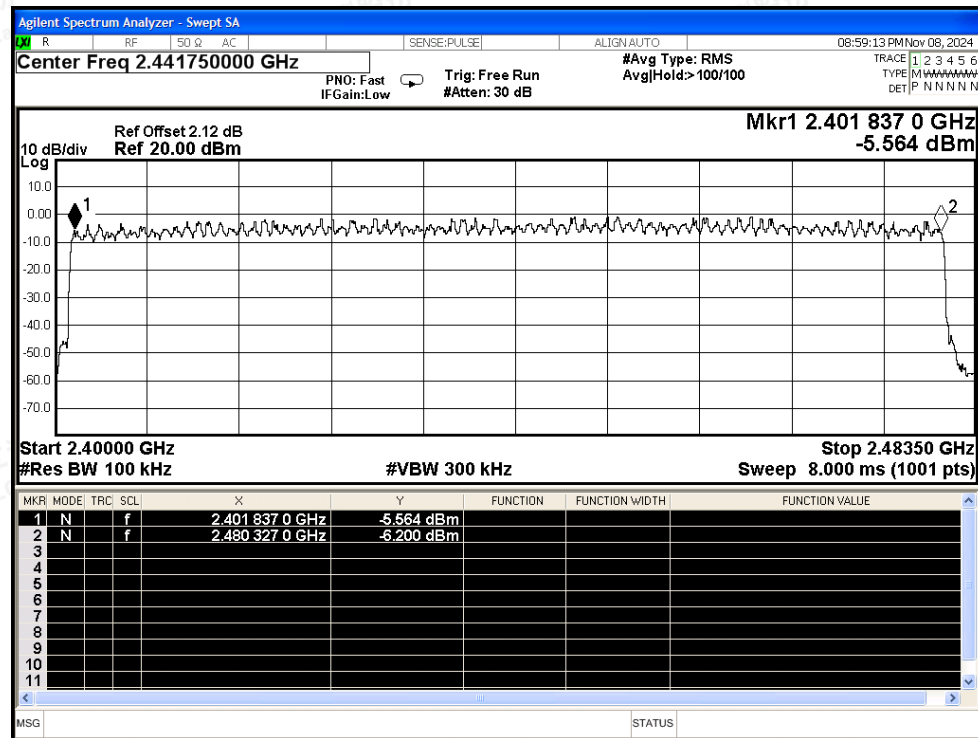


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant



Hopping No. NVNT 2-DH5 2402MHz Ant

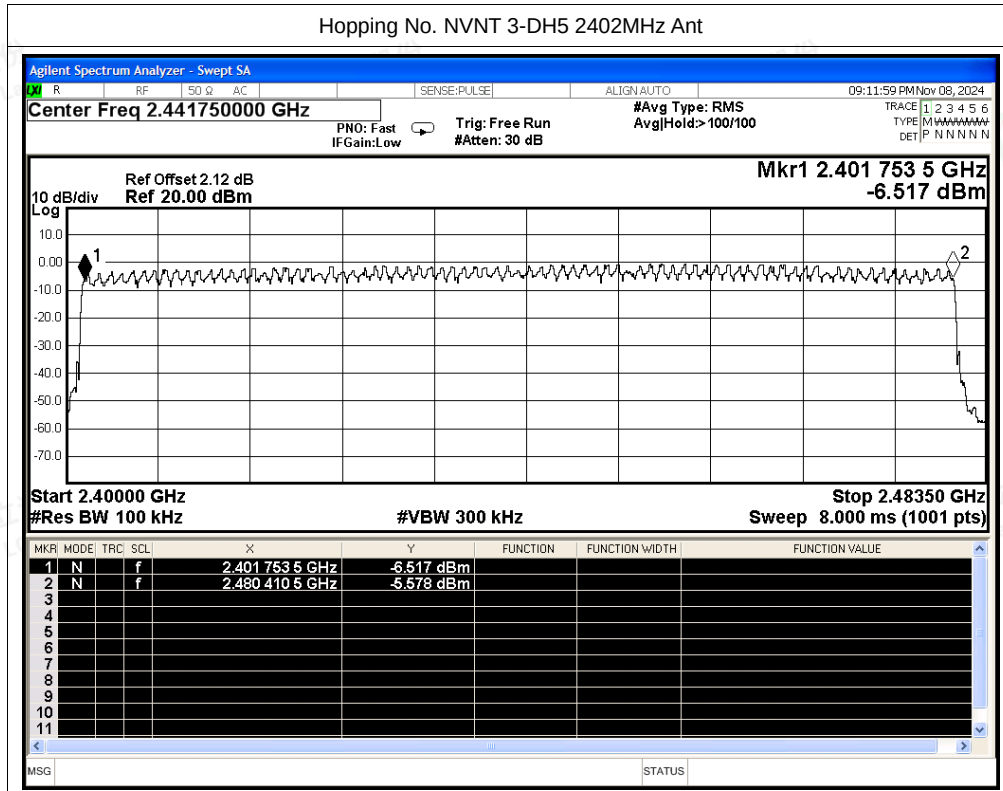


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A.6 Band Edge

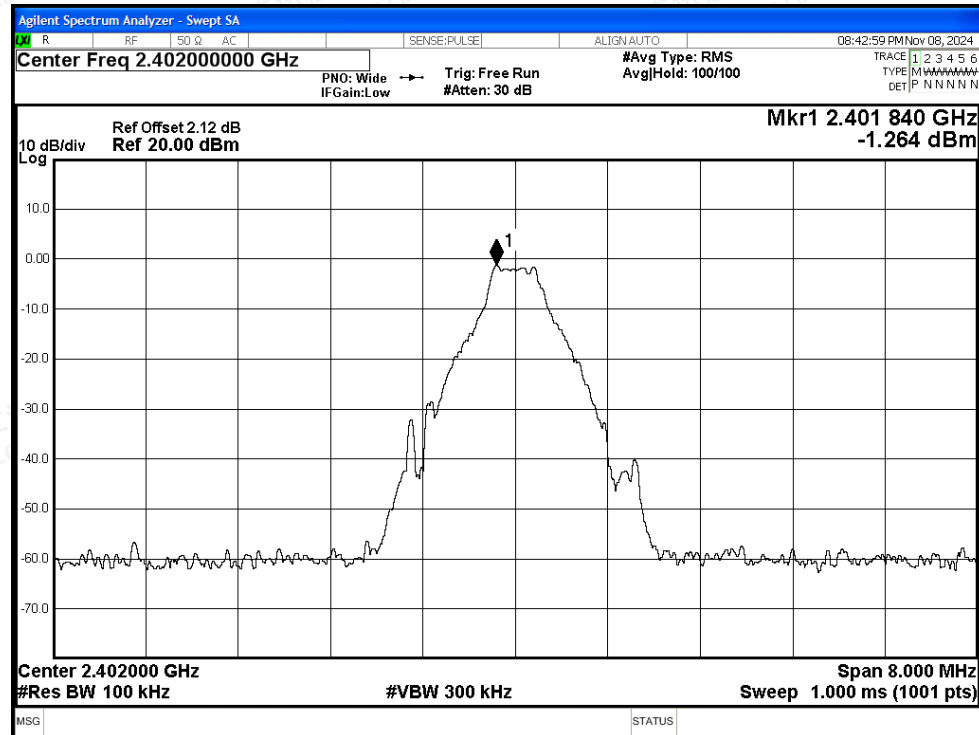
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	-54.93	-20	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	-57.14	-20	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	-52.07	-20	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	-54.23	-20	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	-51.68	-20	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	-53.72	-20	Pass



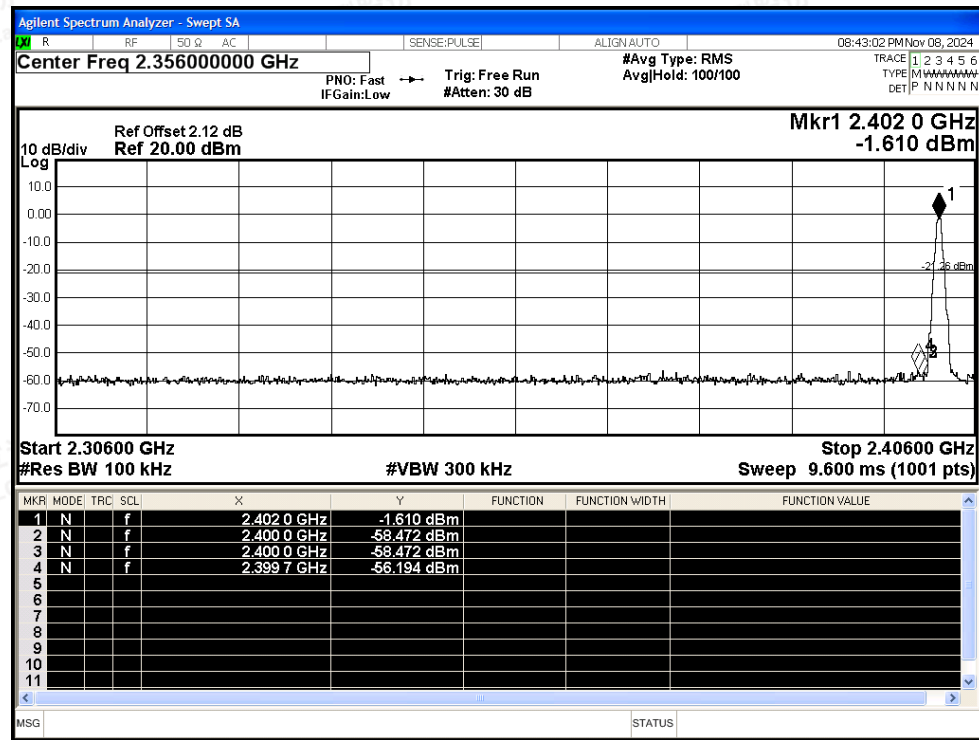


Test Graphs

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



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

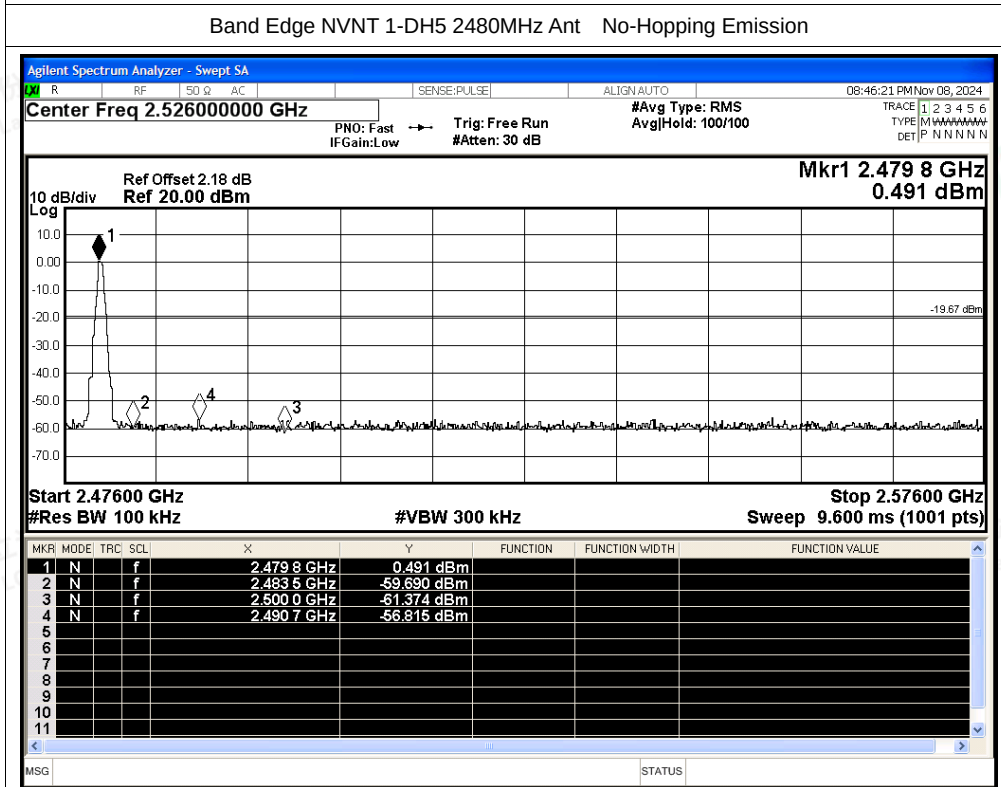
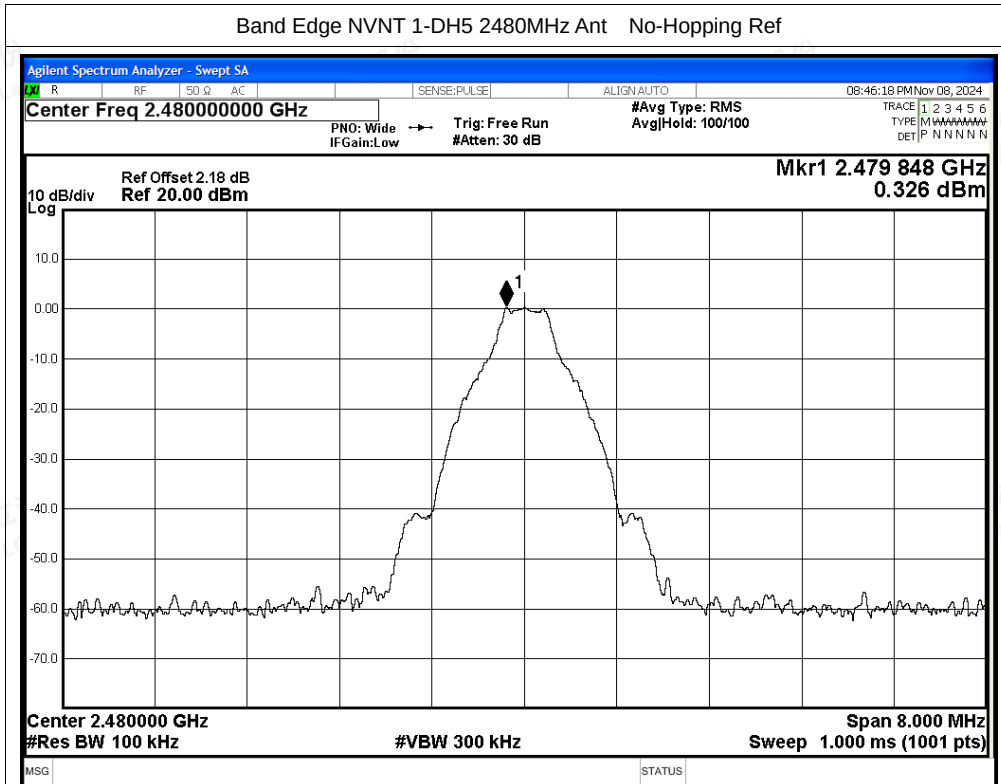


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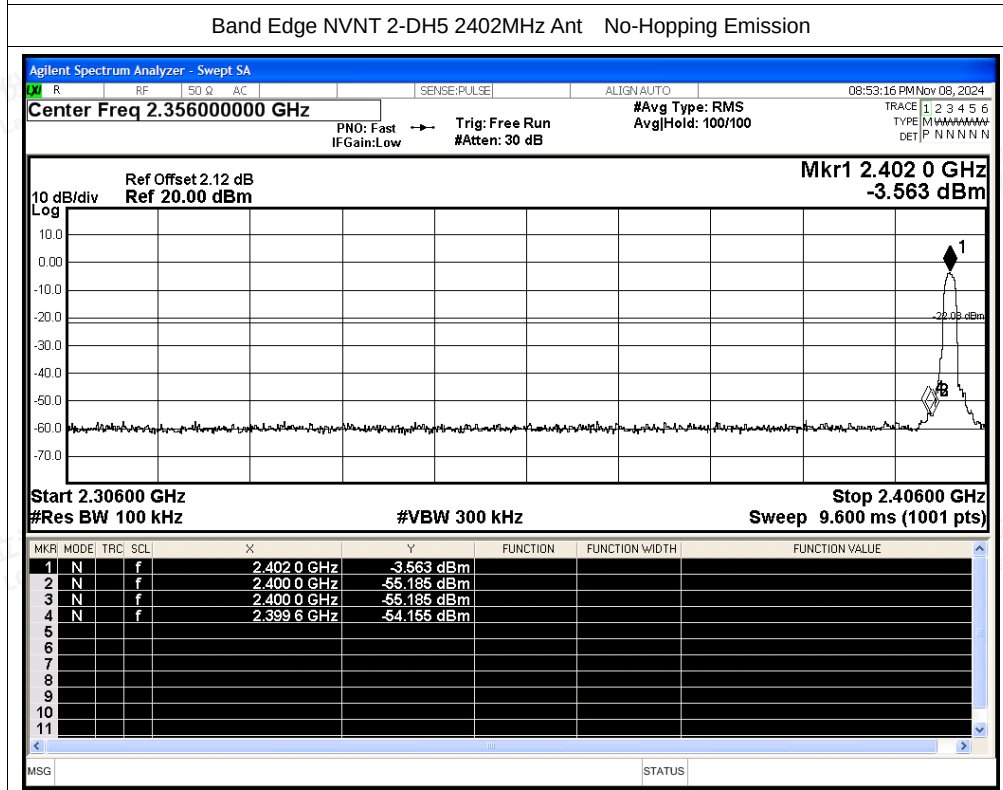
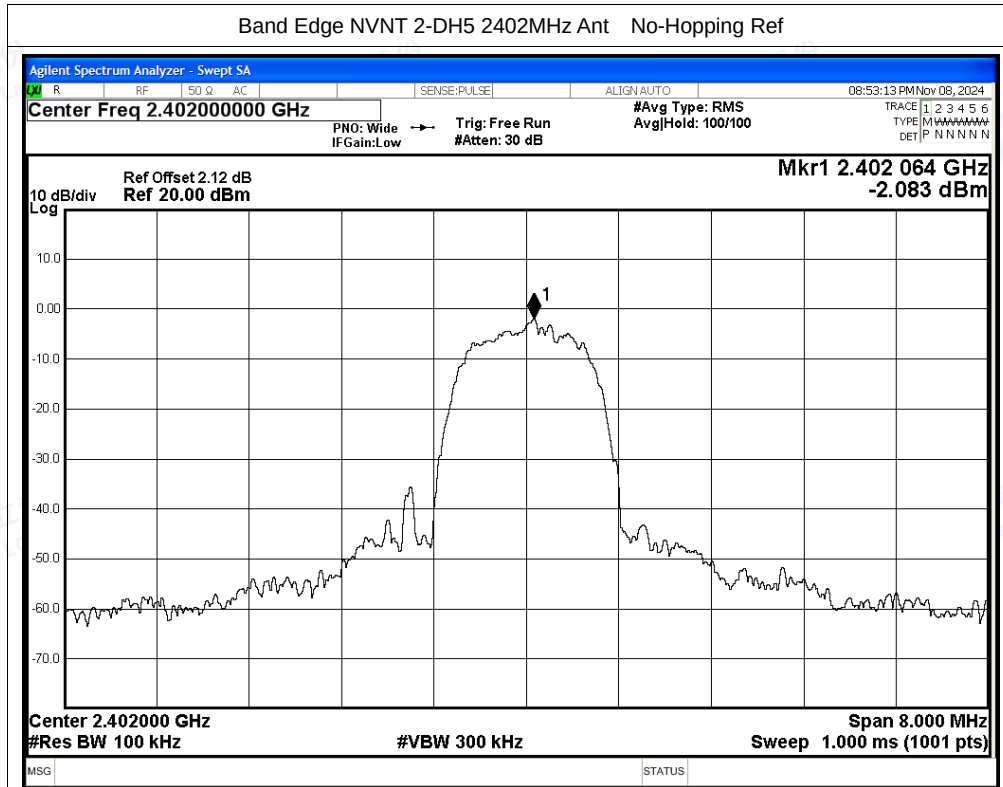


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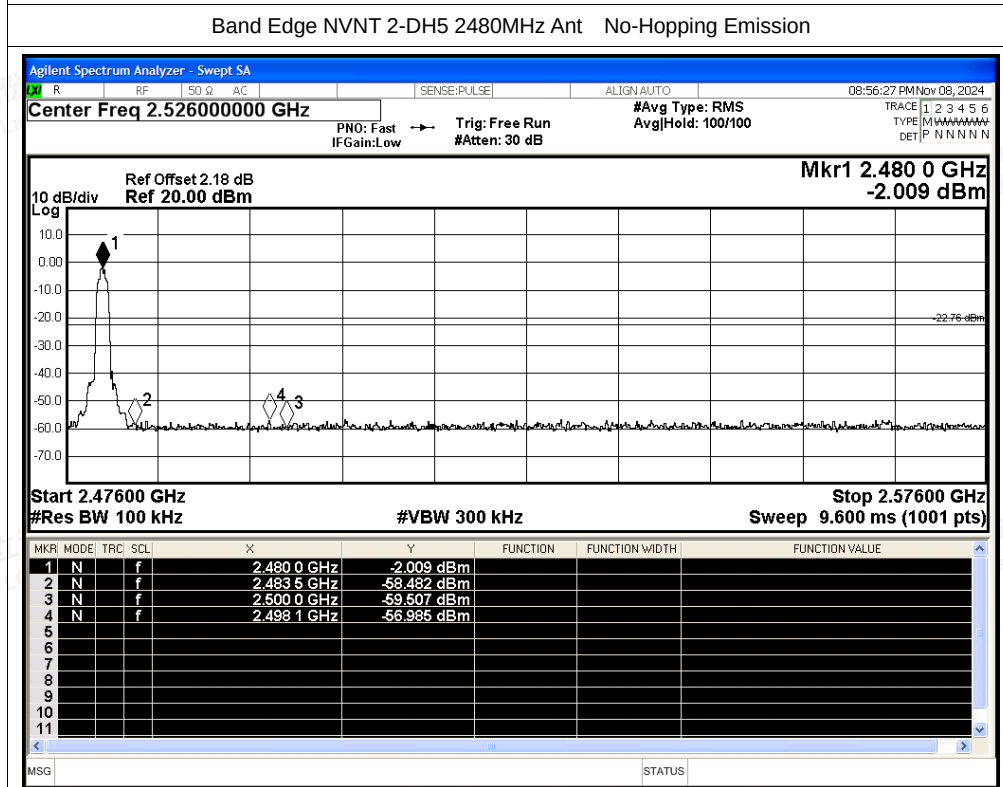
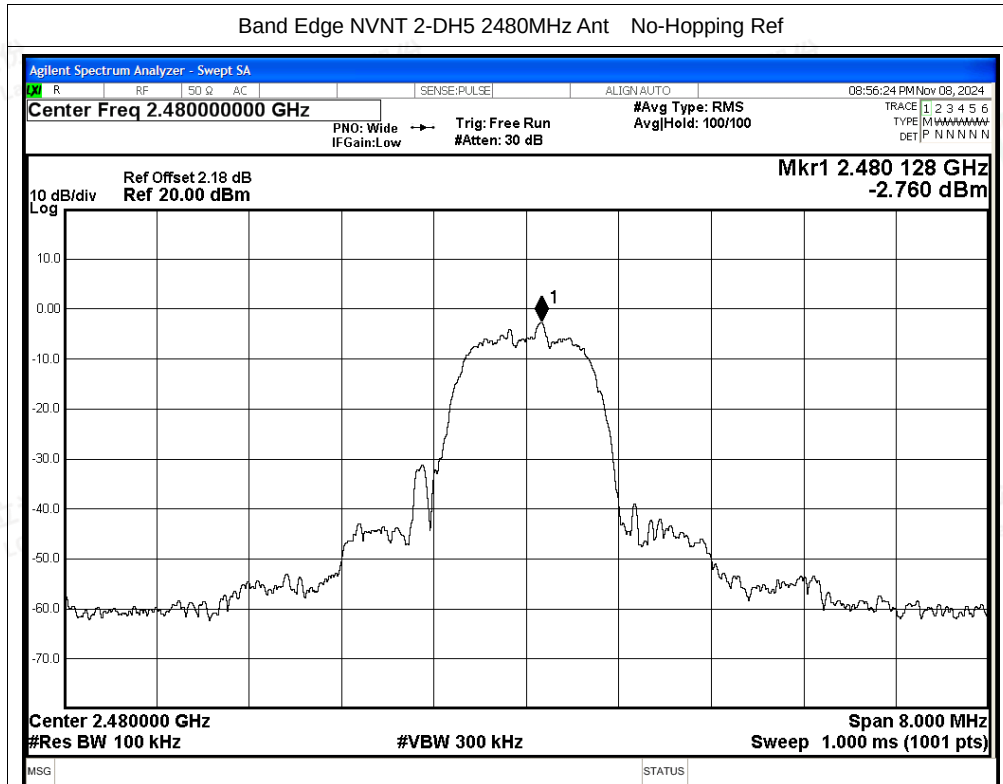


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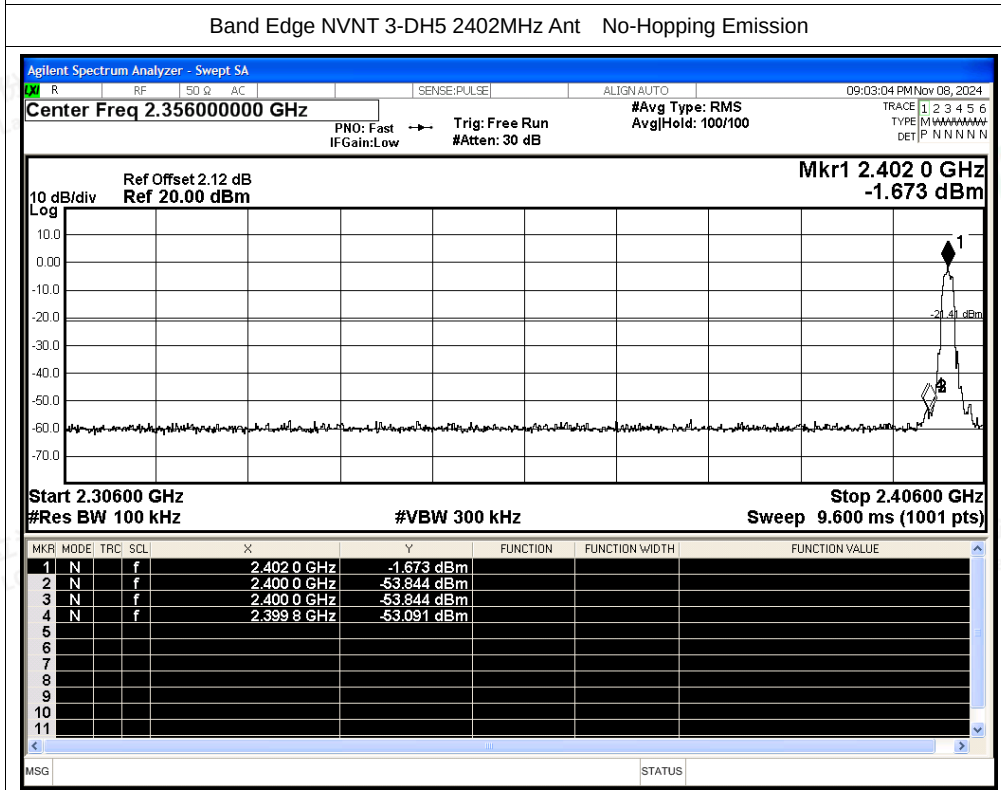
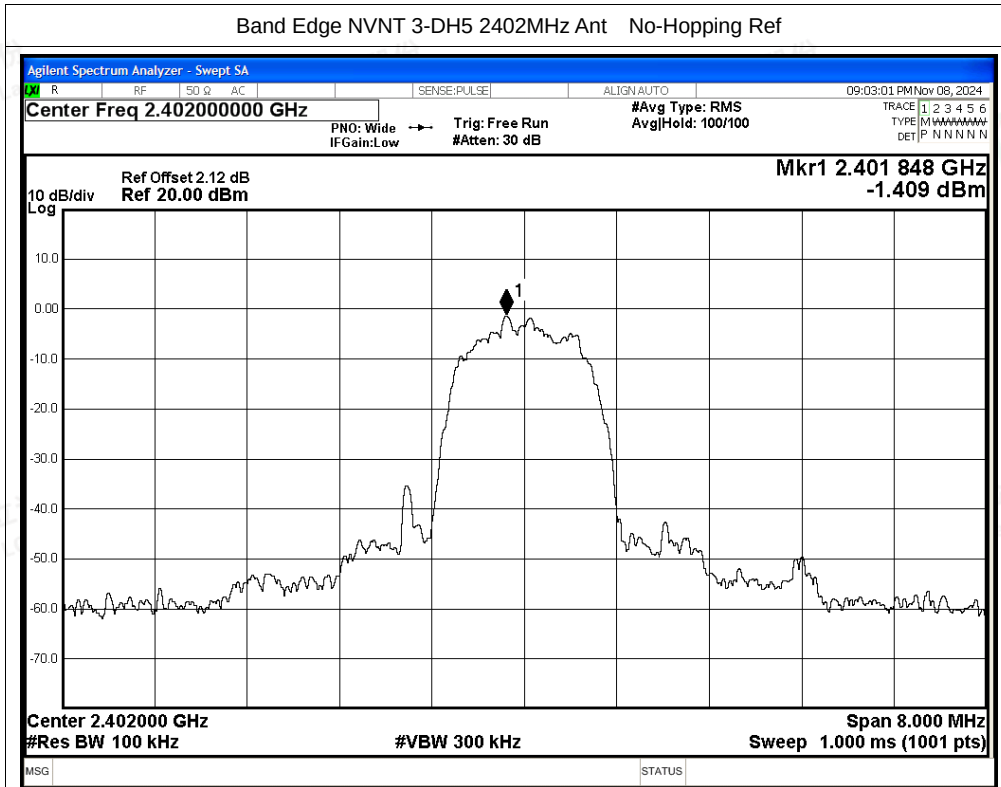


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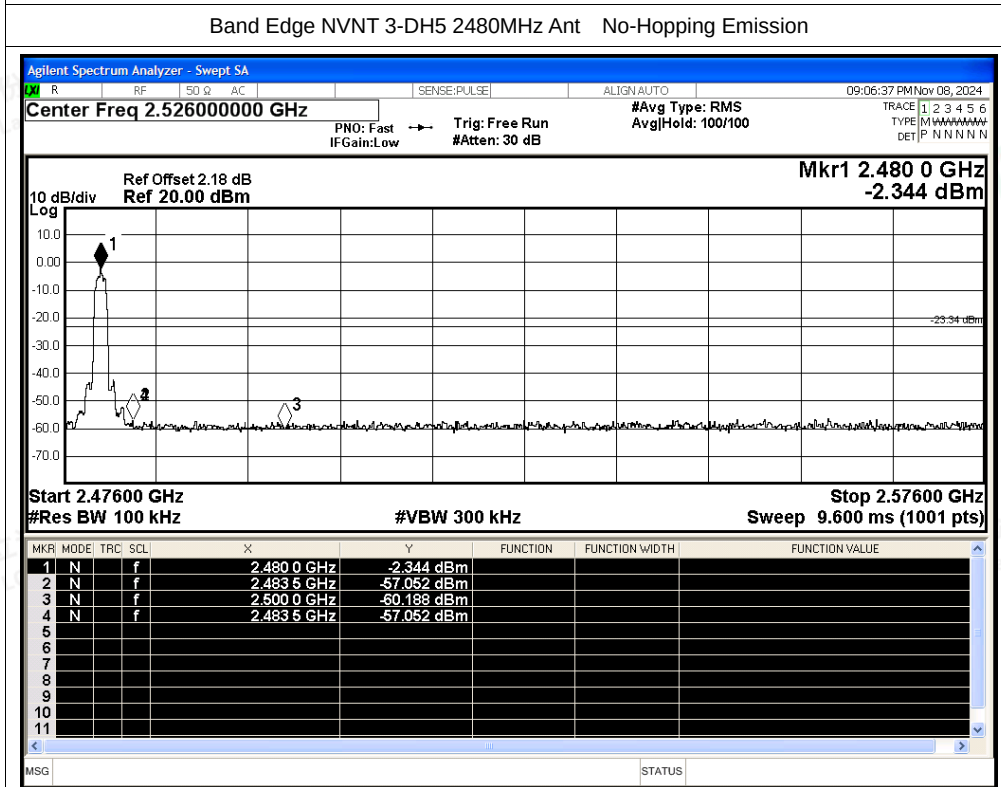
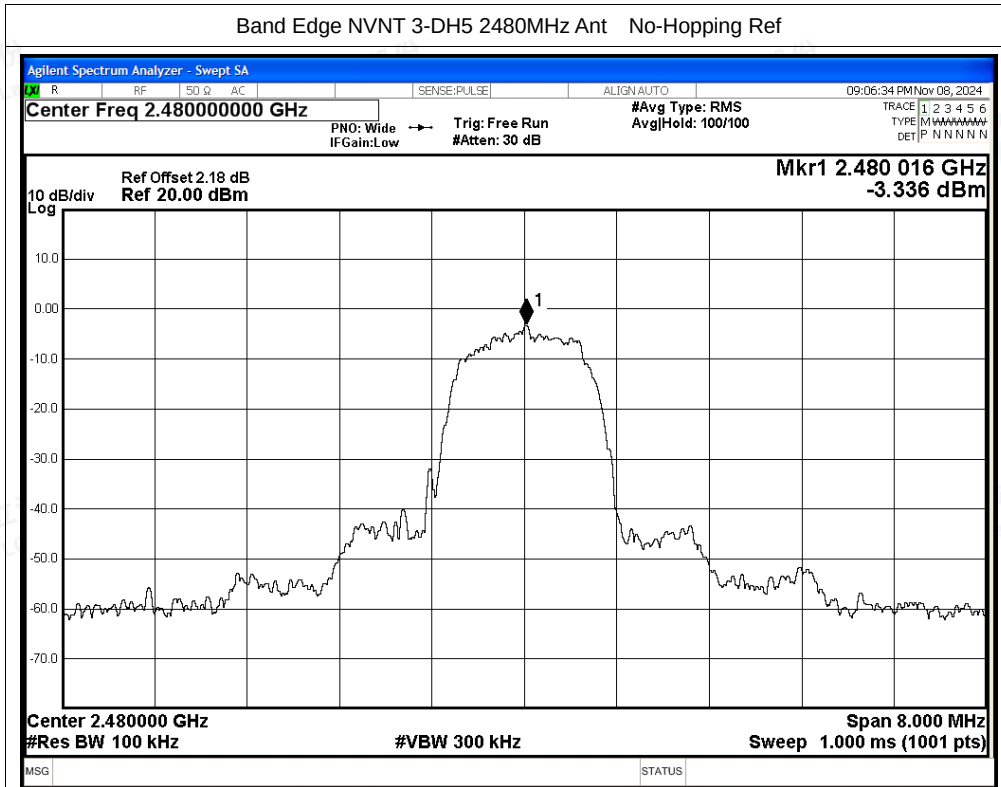


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(Hopping)

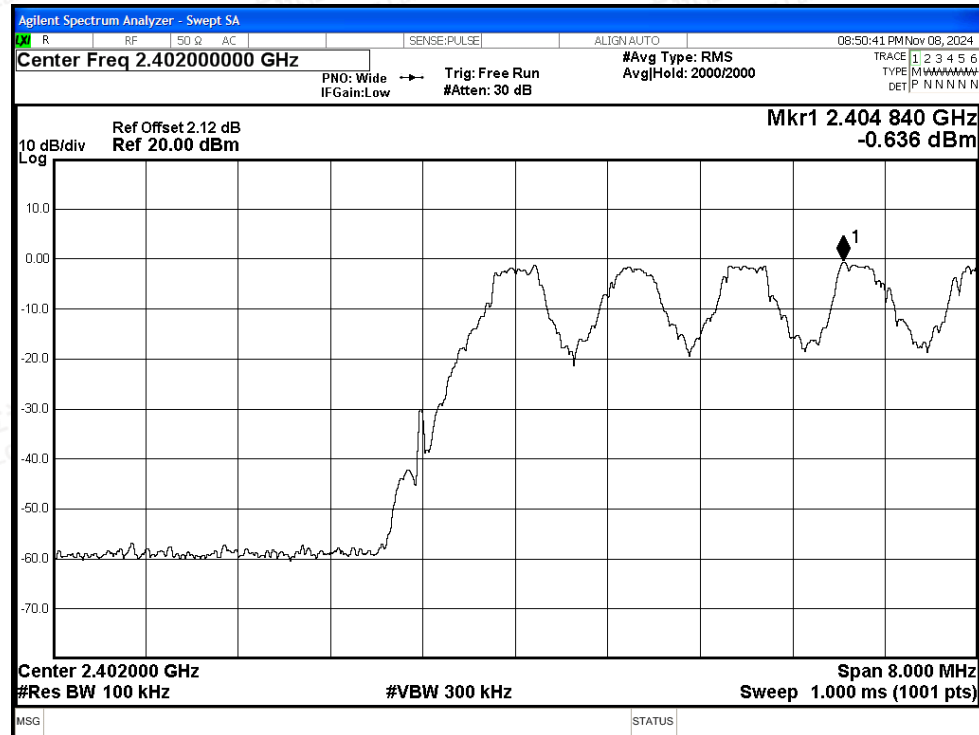
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	Hopping	-55.08	-20	Pass
NVNT	1-DH5	2480	Ant	Hopping	-55.62	-20	Pass
NVNT	2-DH5	2402	Ant	Hopping	-51.55	-20	Pass
NVNT	2-DH5	2480	Ant	Hopping	-53.58	-20	Pass
NVNT	3-DH5	2402	Ant	Hopping	-52.58	-20	Pass
NVNT	3-DH5	2480	Ant	Hopping	-54.14	-20	Pass



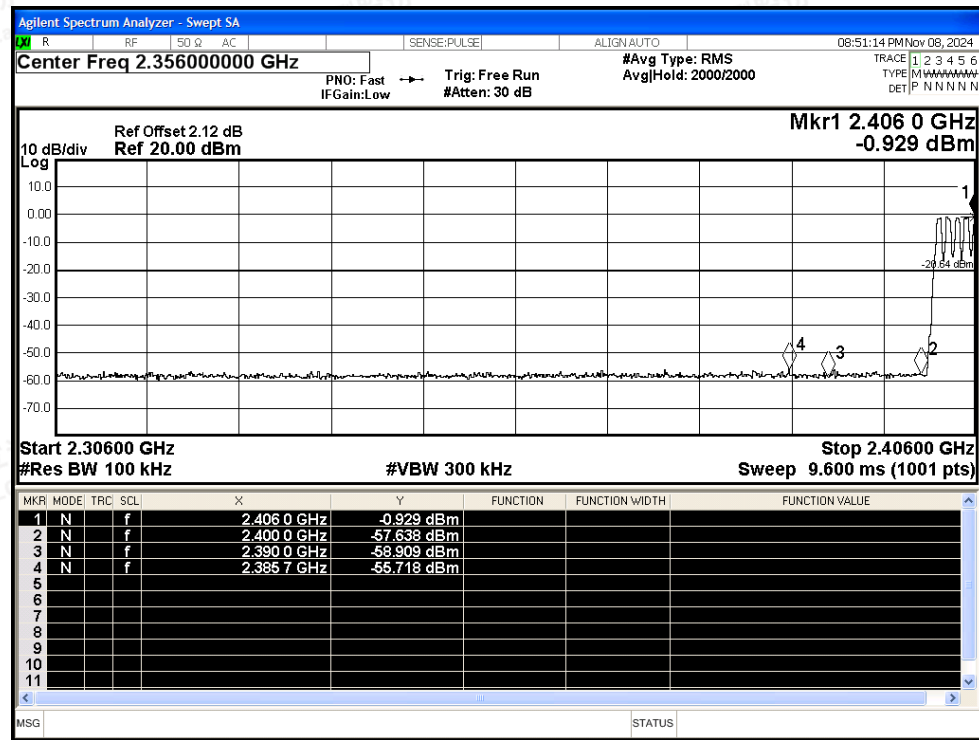


Test Graphs

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



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

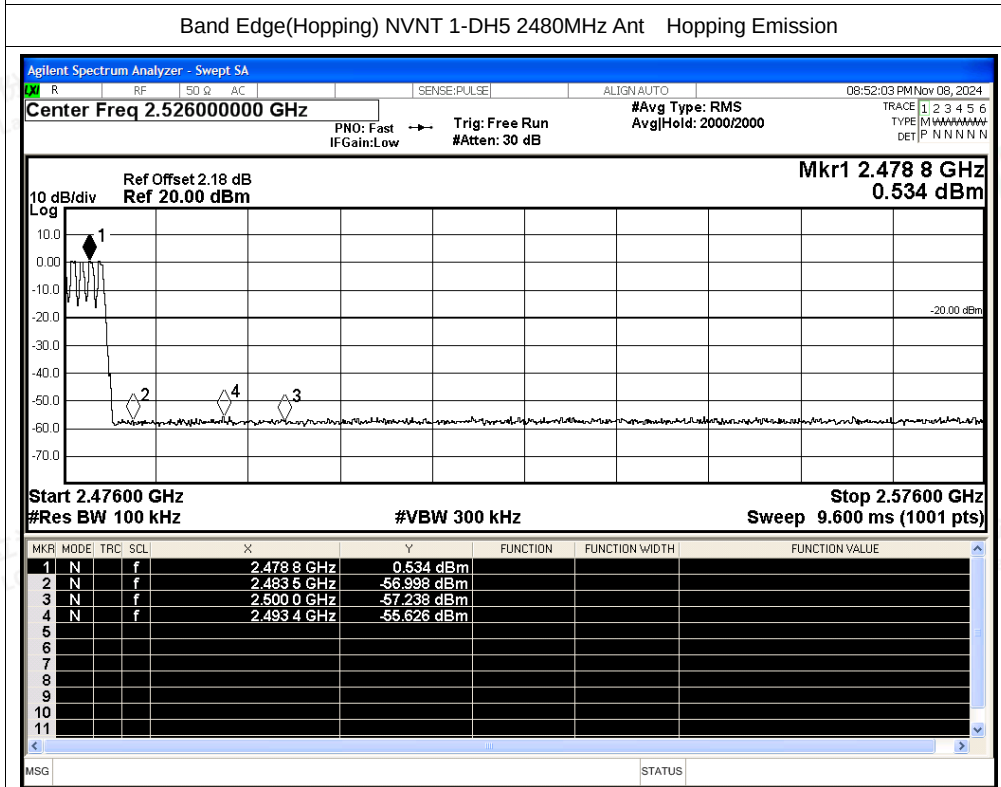
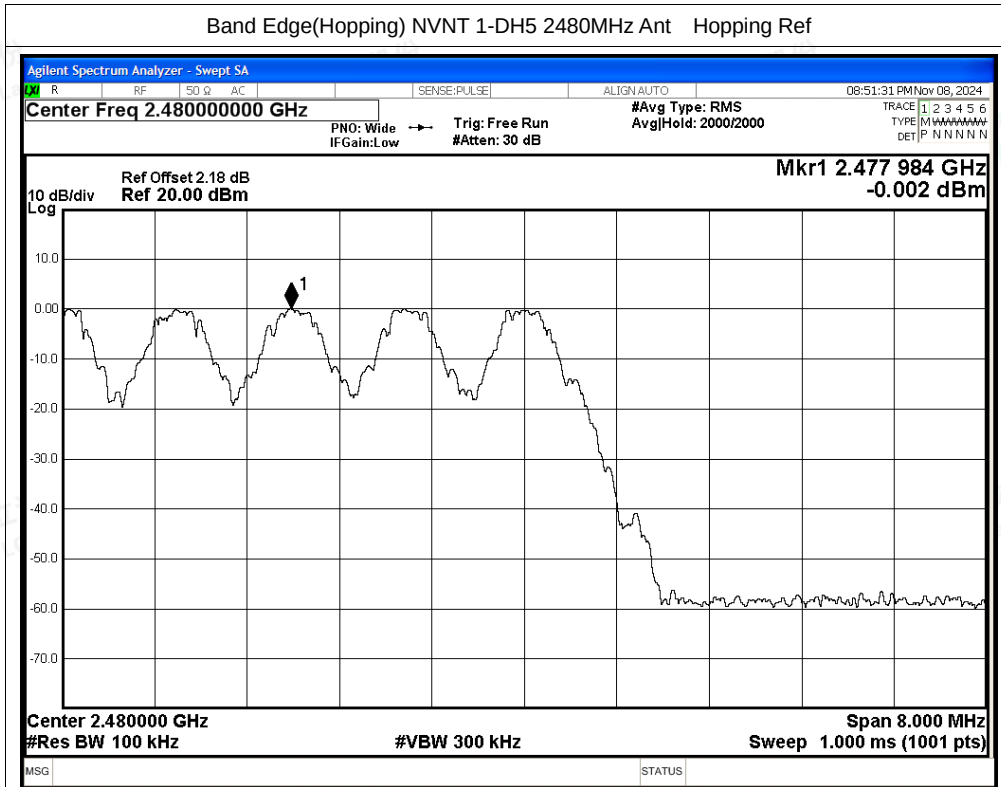


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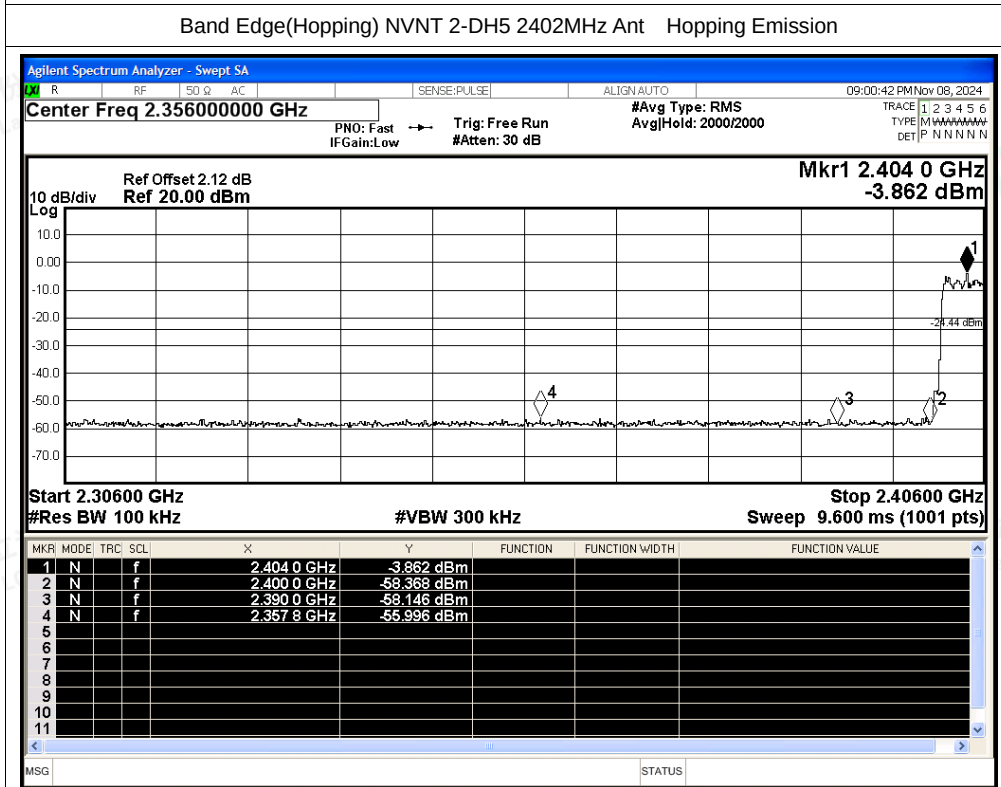
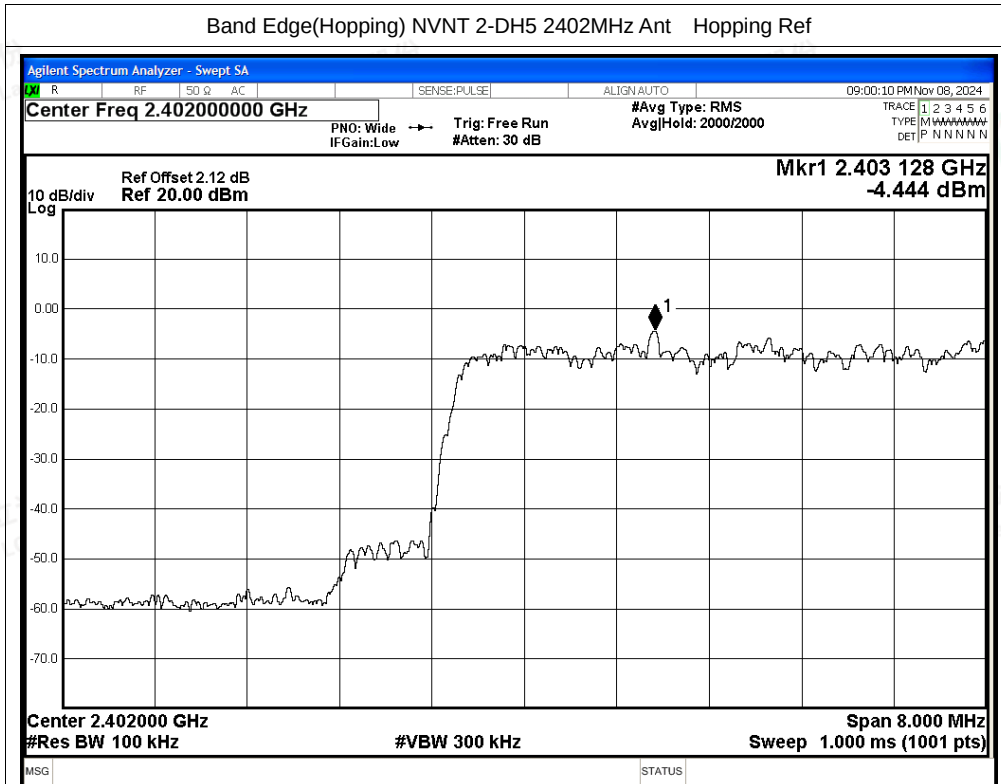


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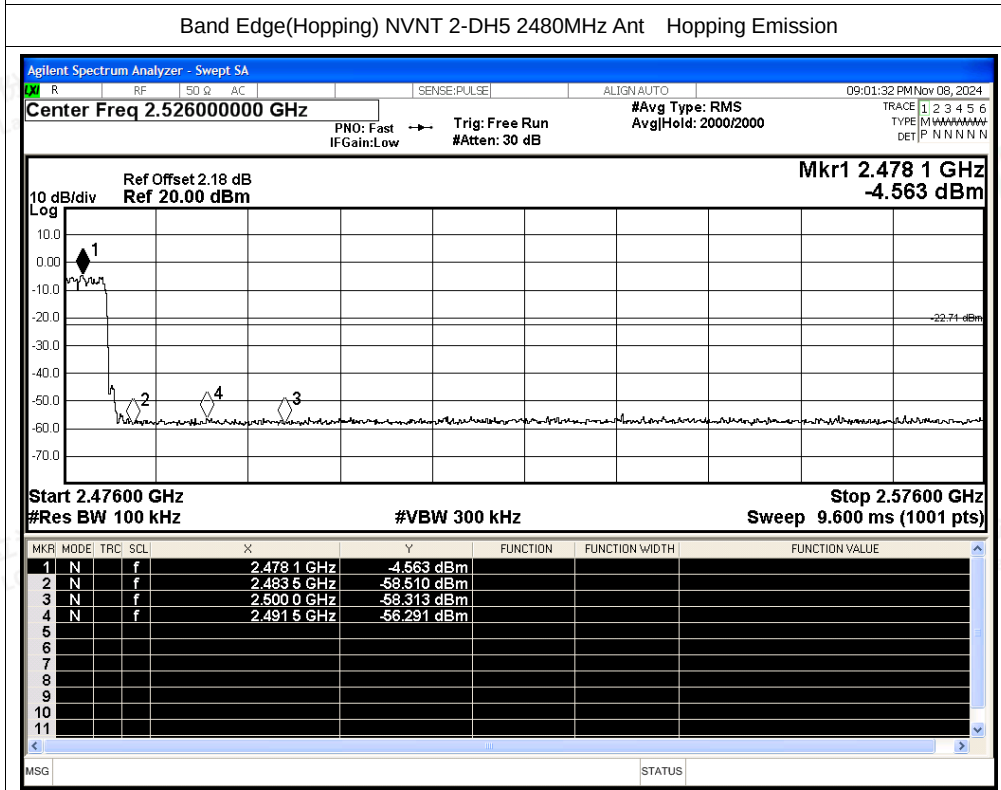
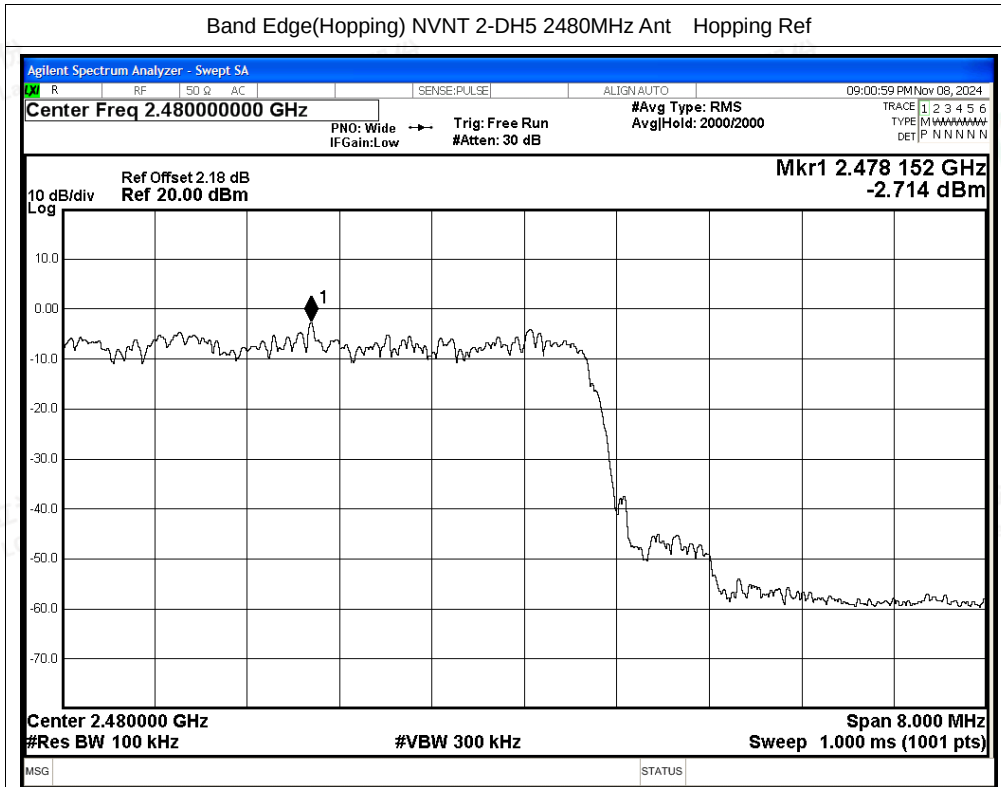


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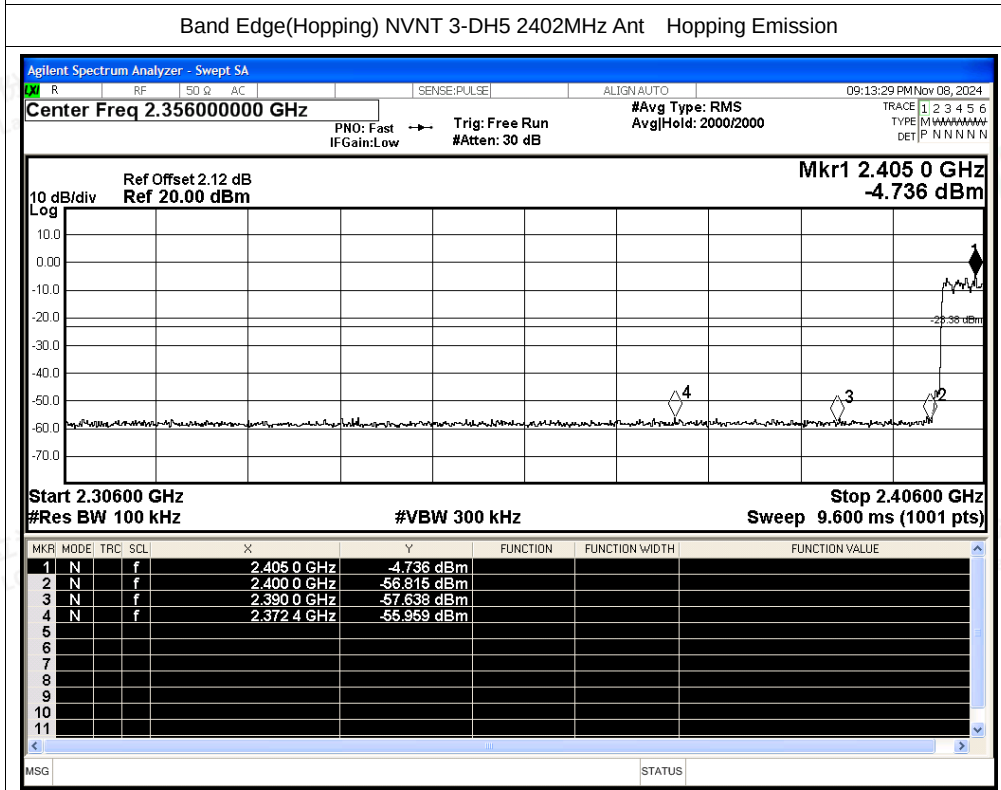
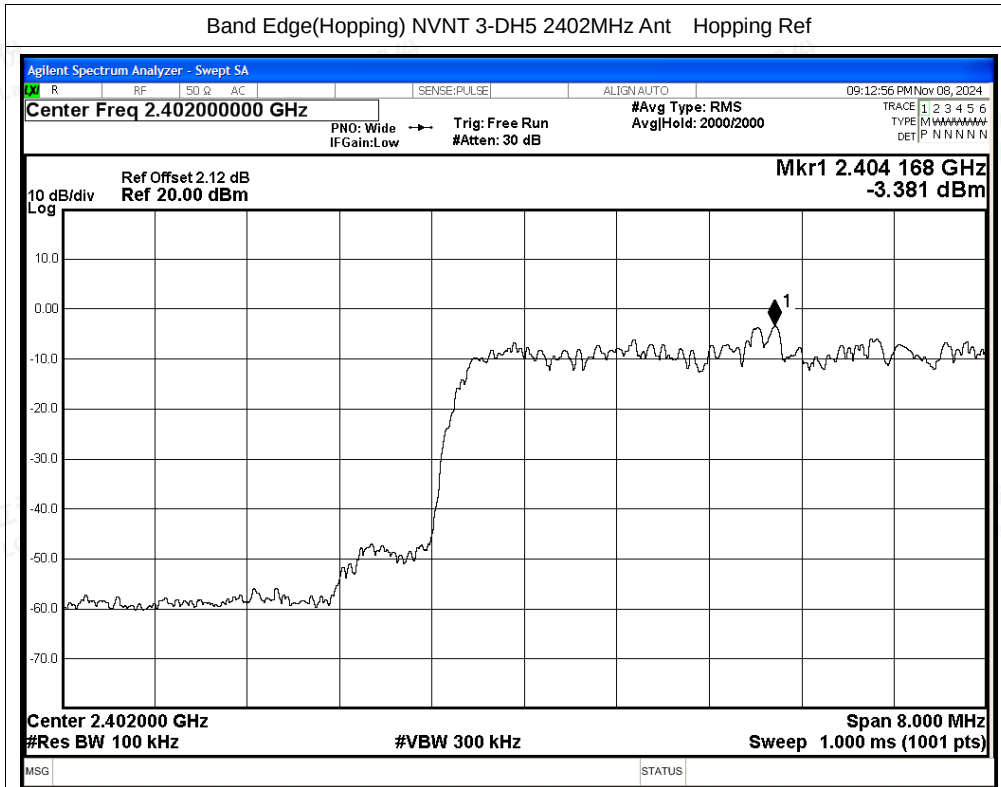


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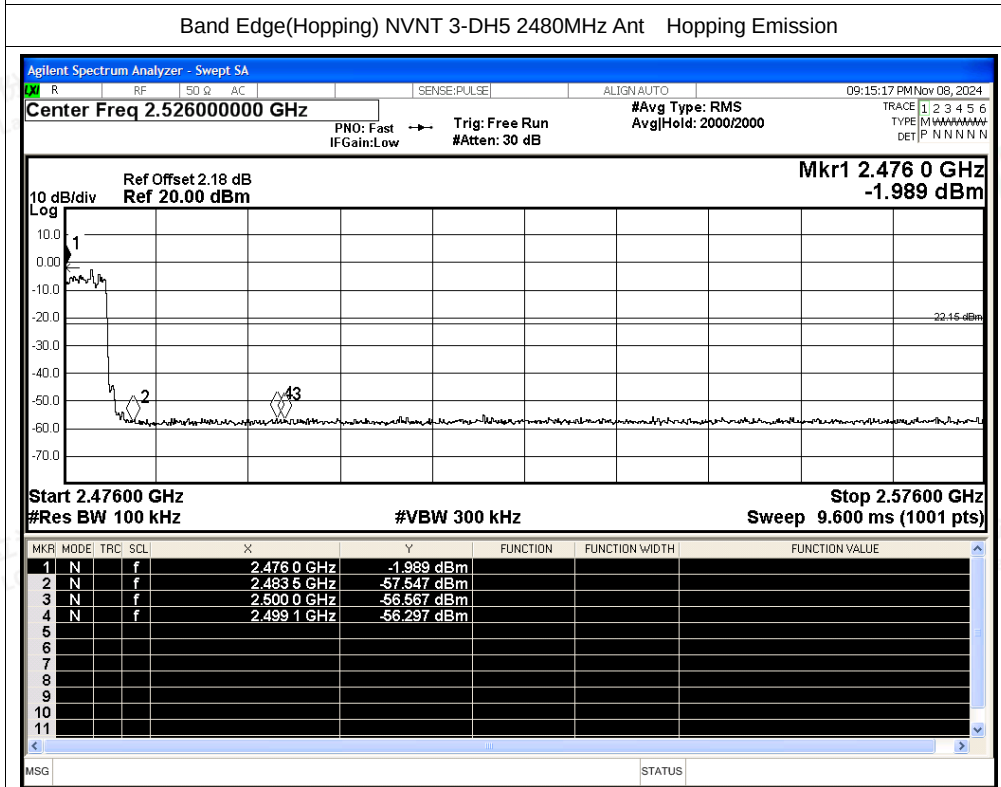
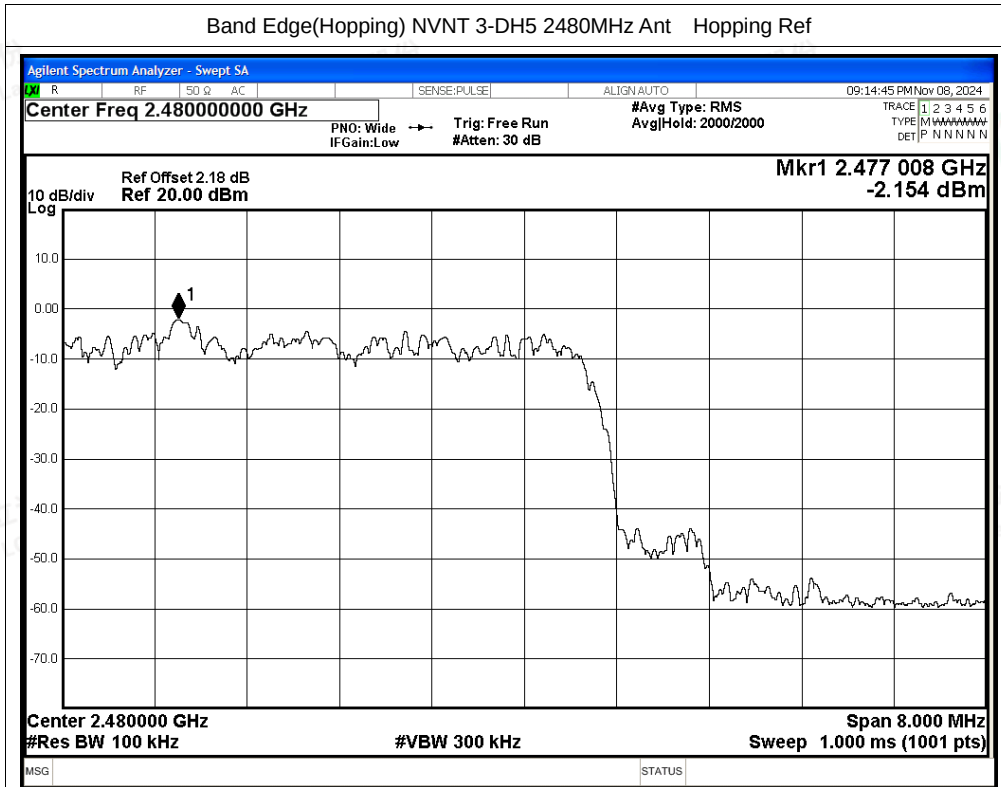


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A.7 Conducted RF Spurious Emission

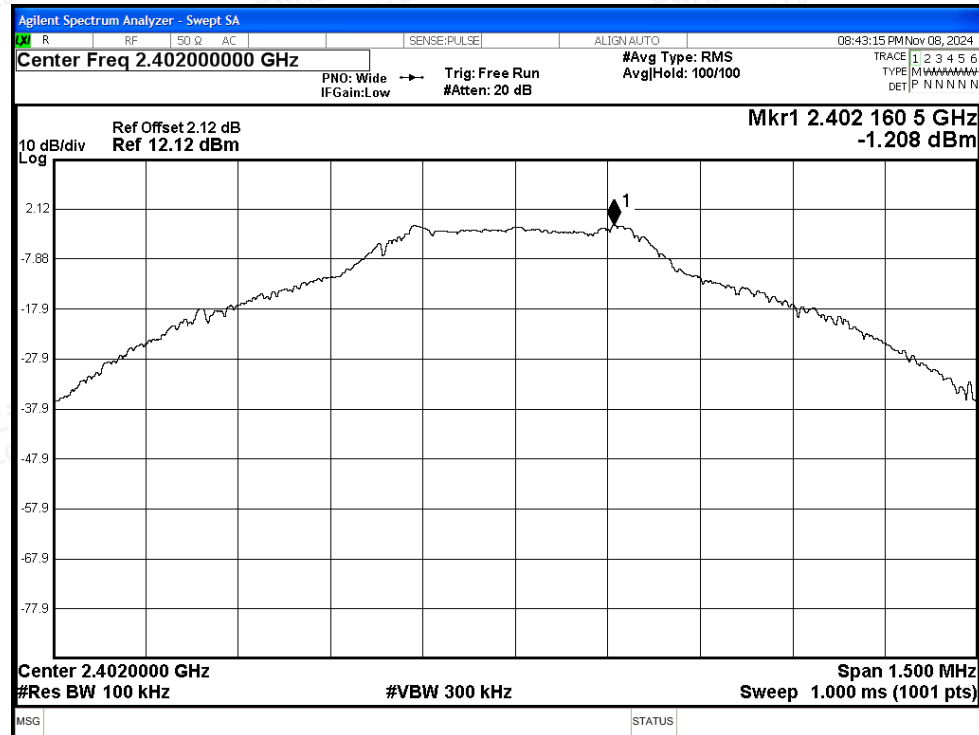
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	-53.76	-20	Pass
NVNT	1-DH5	2441	Ant	-53.54	-20	Pass
NVNT	1-DH5	2480	Ant	-55.65	-20	Pass
NVNT	2-DH5	2402	Ant	-54.14	-20	Pass
NVNT	2-DH5	2441	Ant	-54.13	-20	Pass
NVNT	2-DH5	2480	Ant	-52.79	-20	Pass
NVNT	3-DH5	2402	Ant	-53.5	-20	Pass
NVNT	3-DH5	2441	Ant	-53.67	-20	Pass
NVNT	3-DH5	2480	Ant	-52.64	-20	Pass



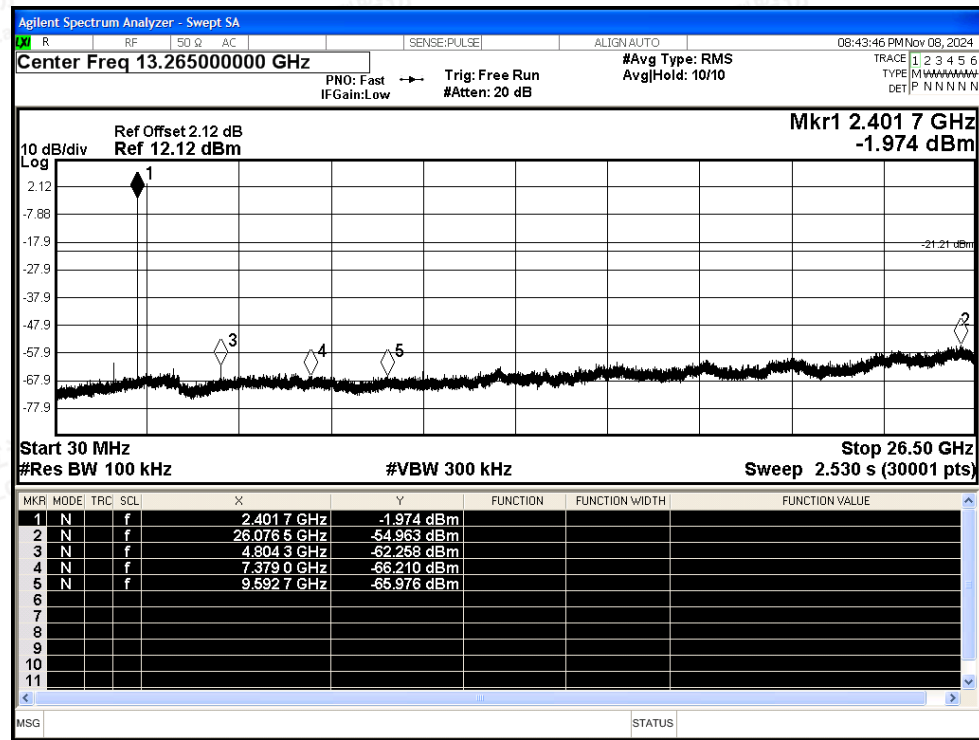


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

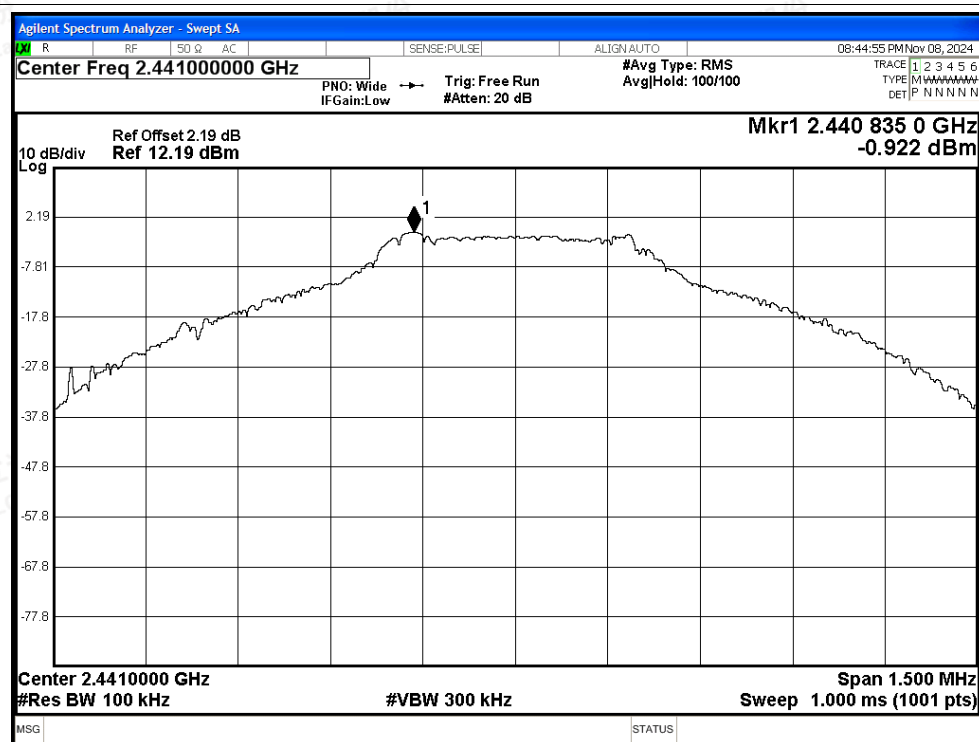
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

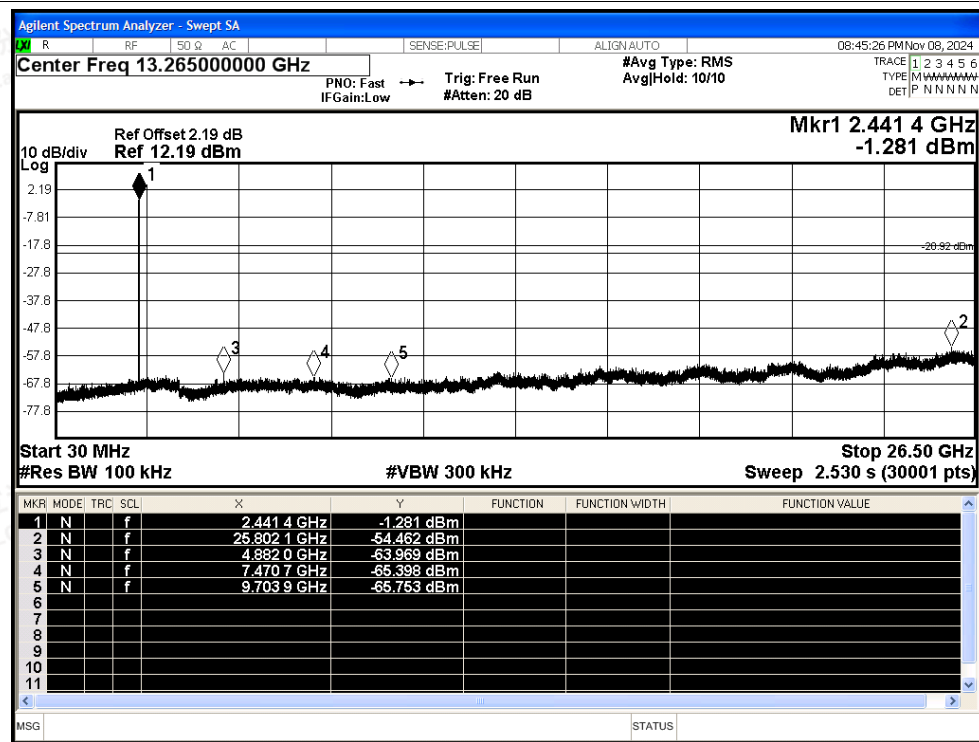
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

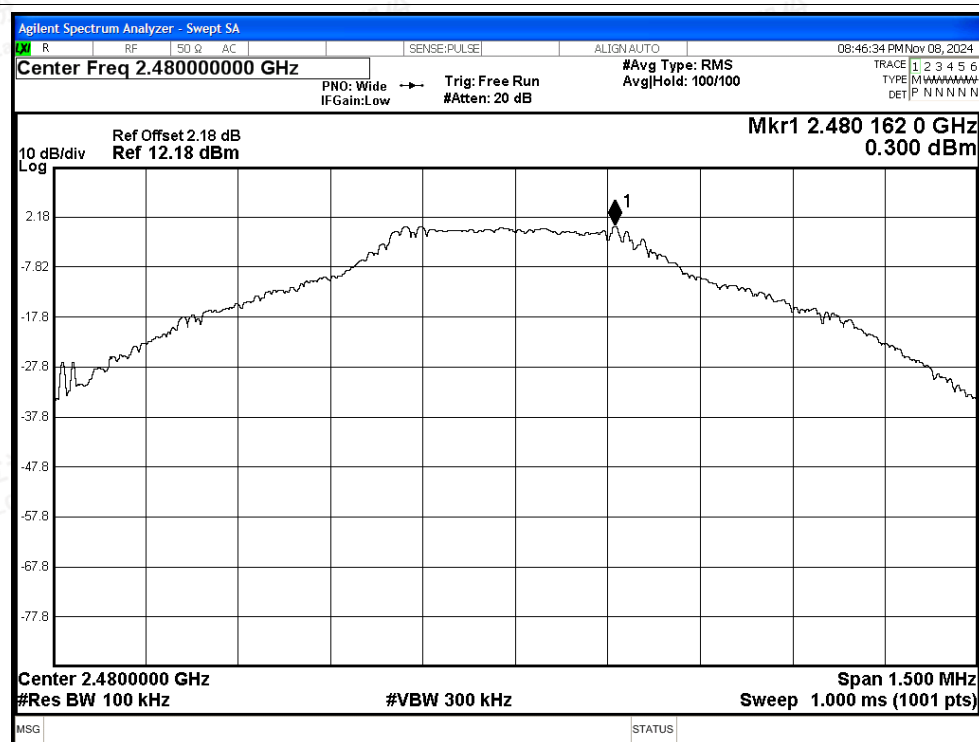
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

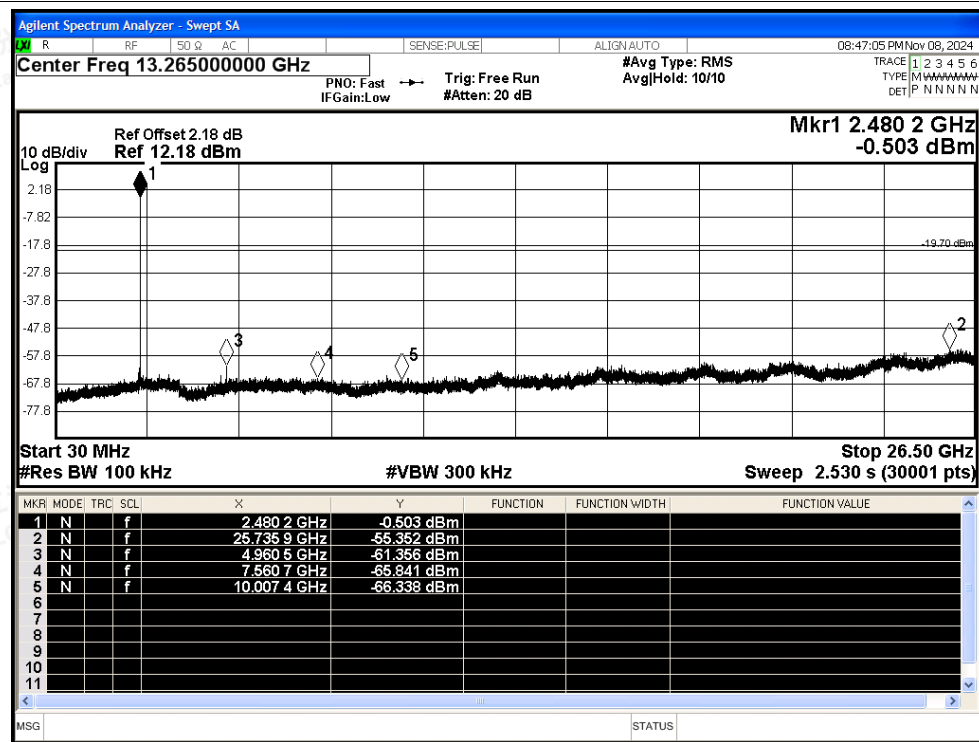
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

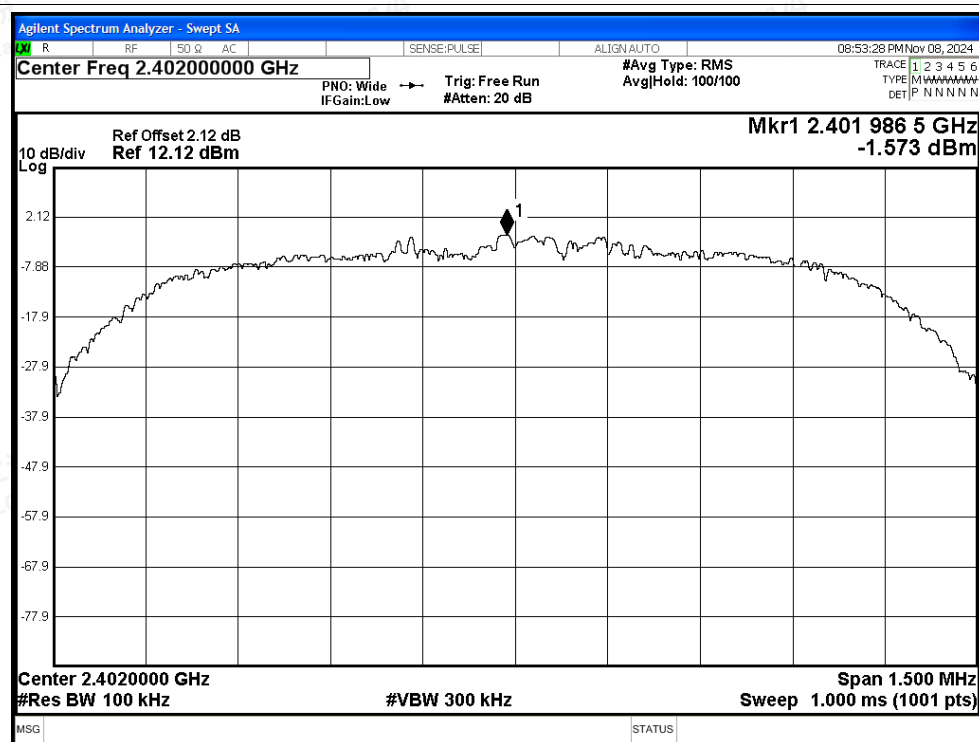
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

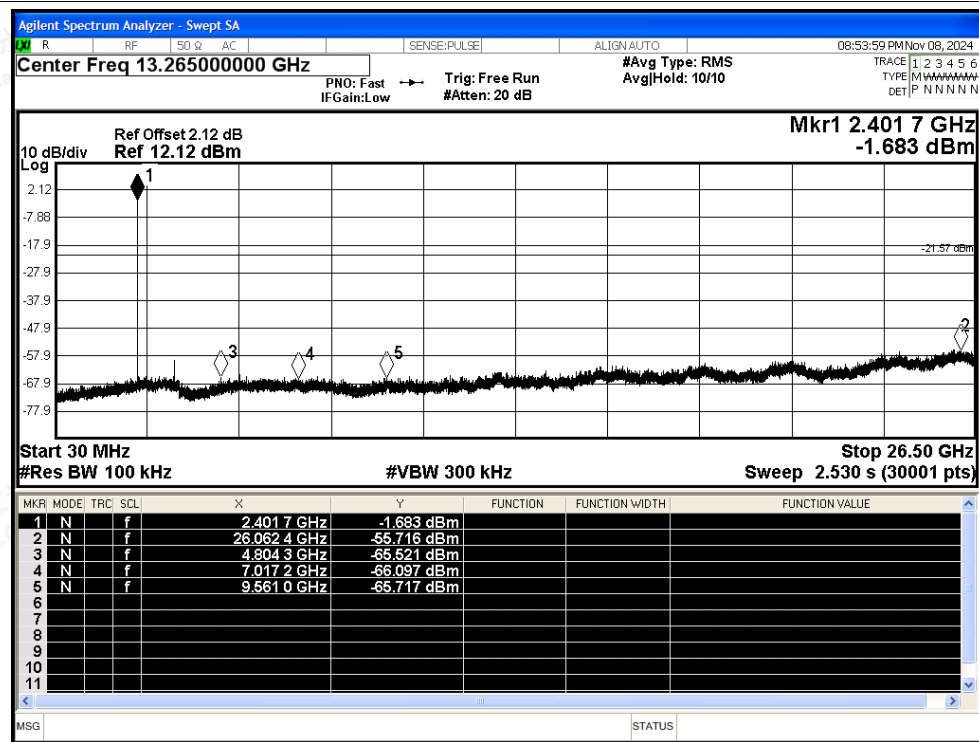
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

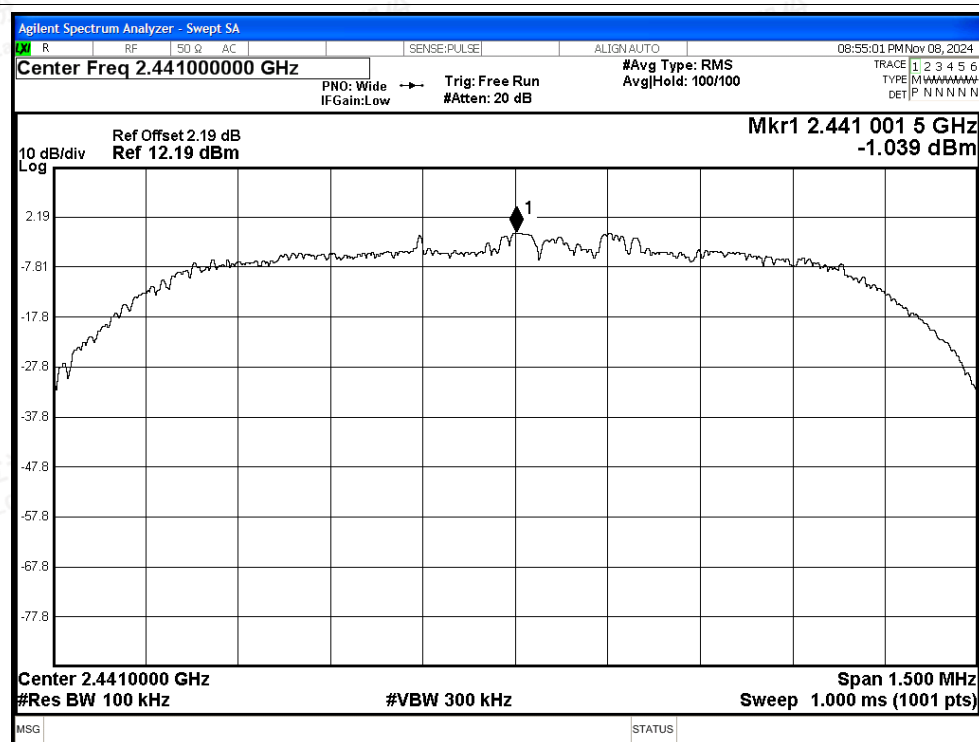
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

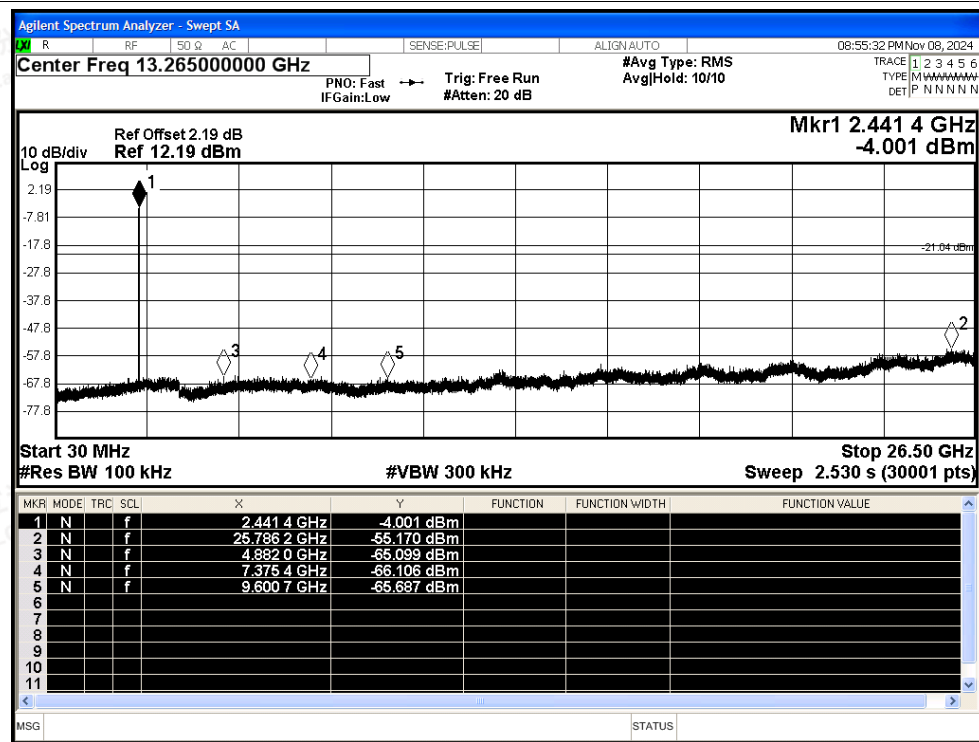
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

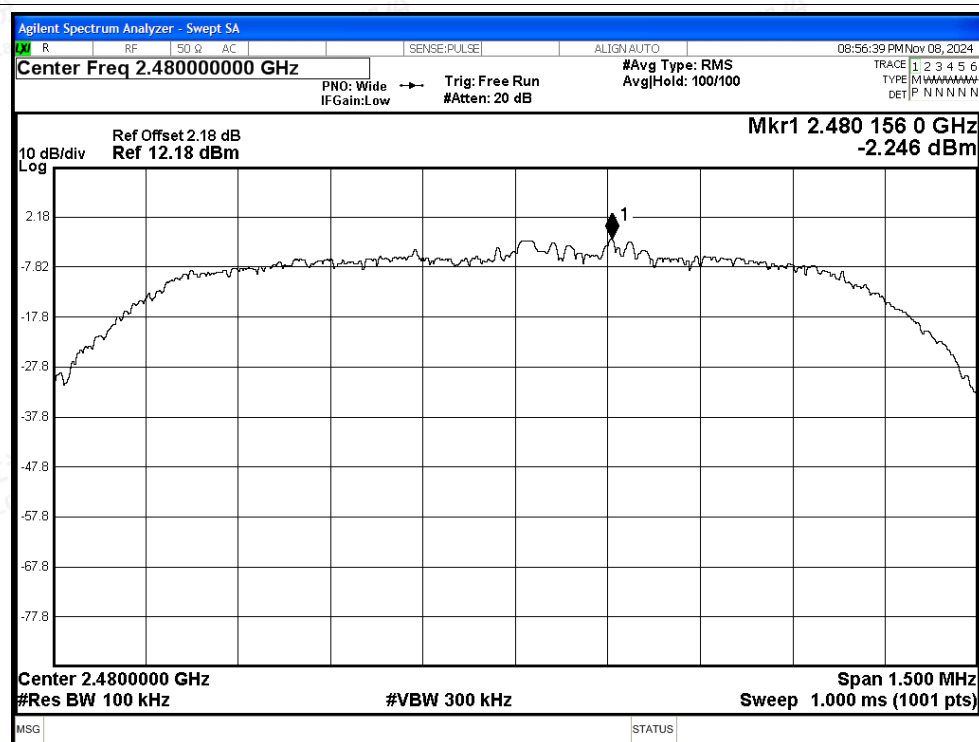
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

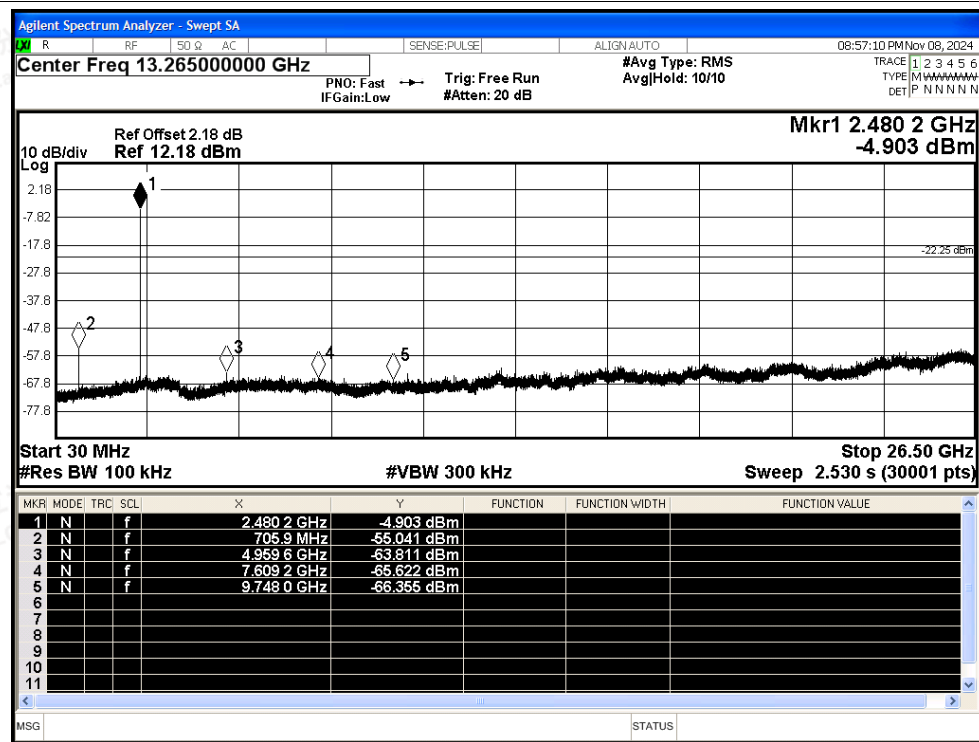
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

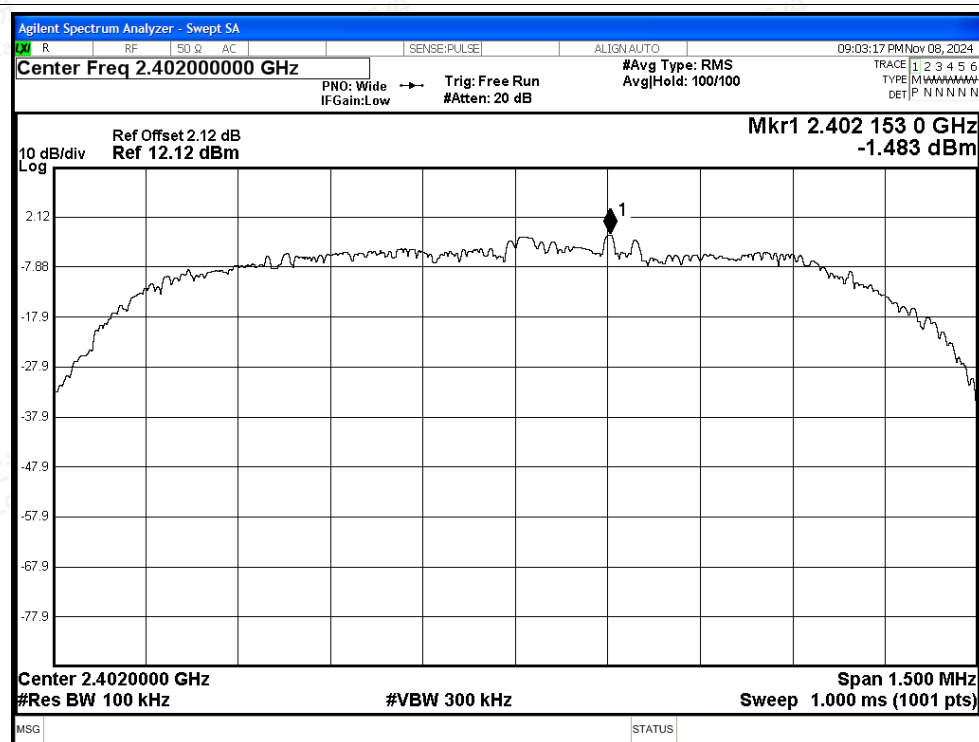
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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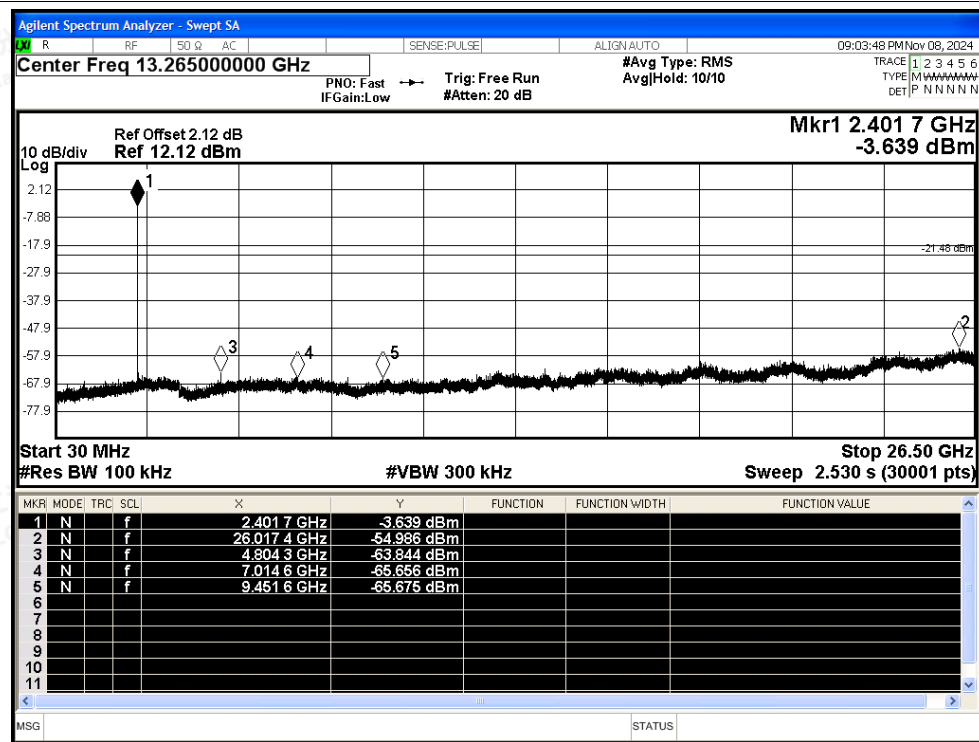
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

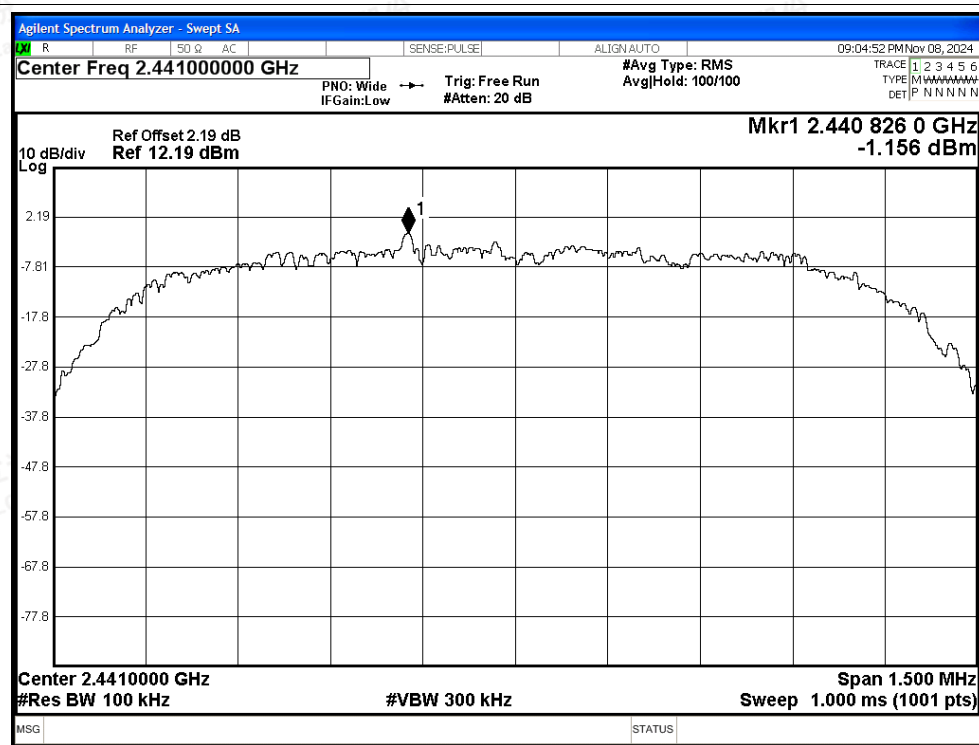
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

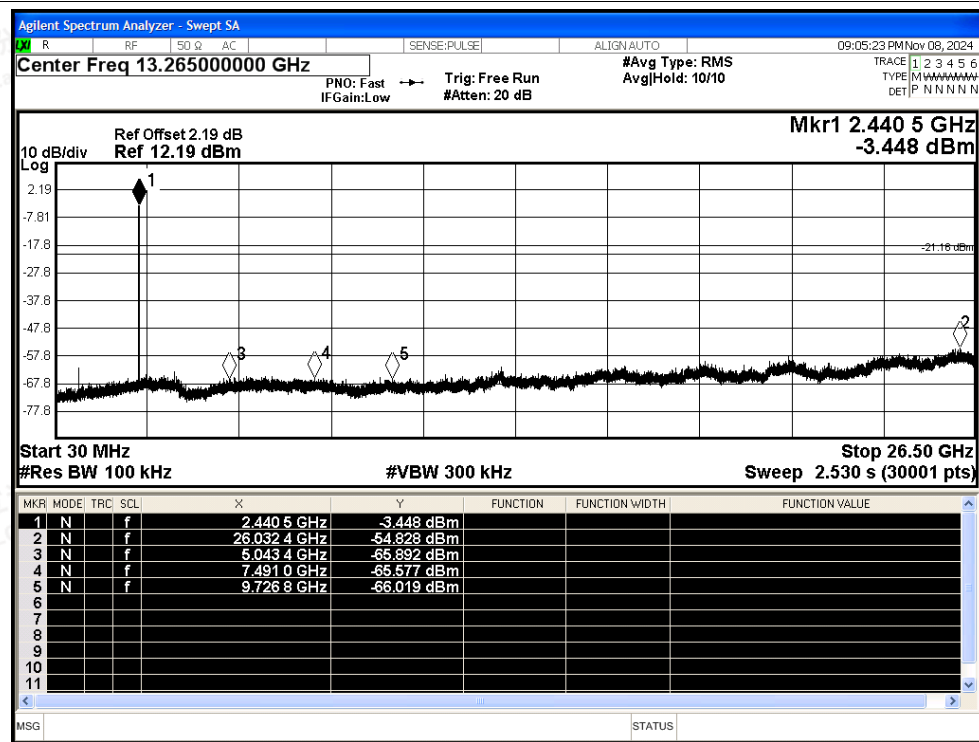
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

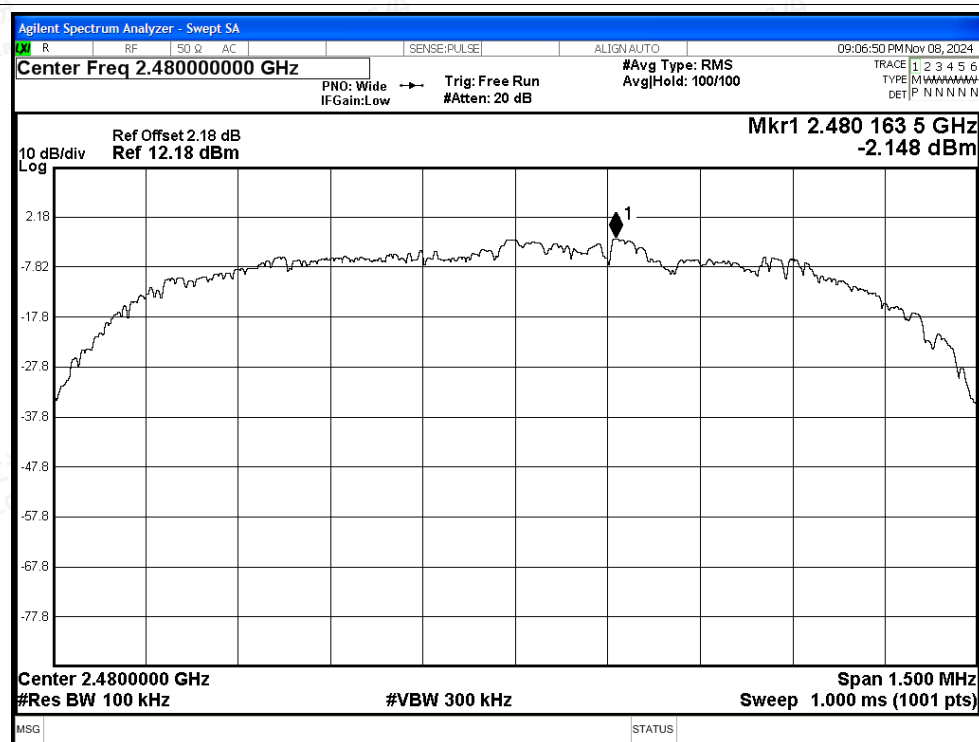
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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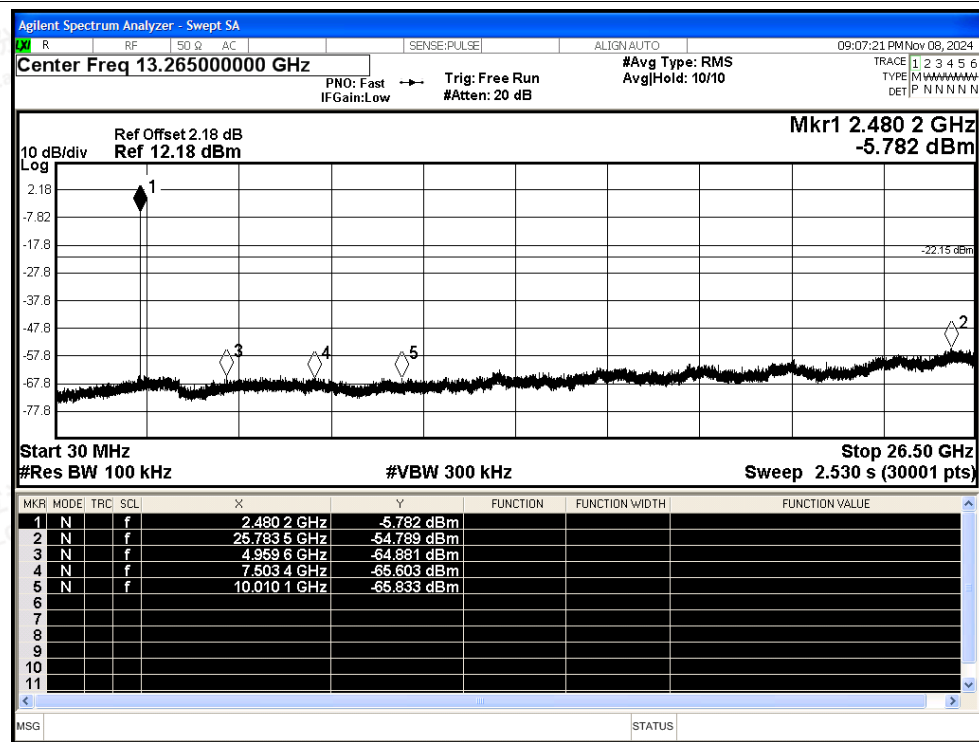
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant Emission



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A.8 Duty Cycle

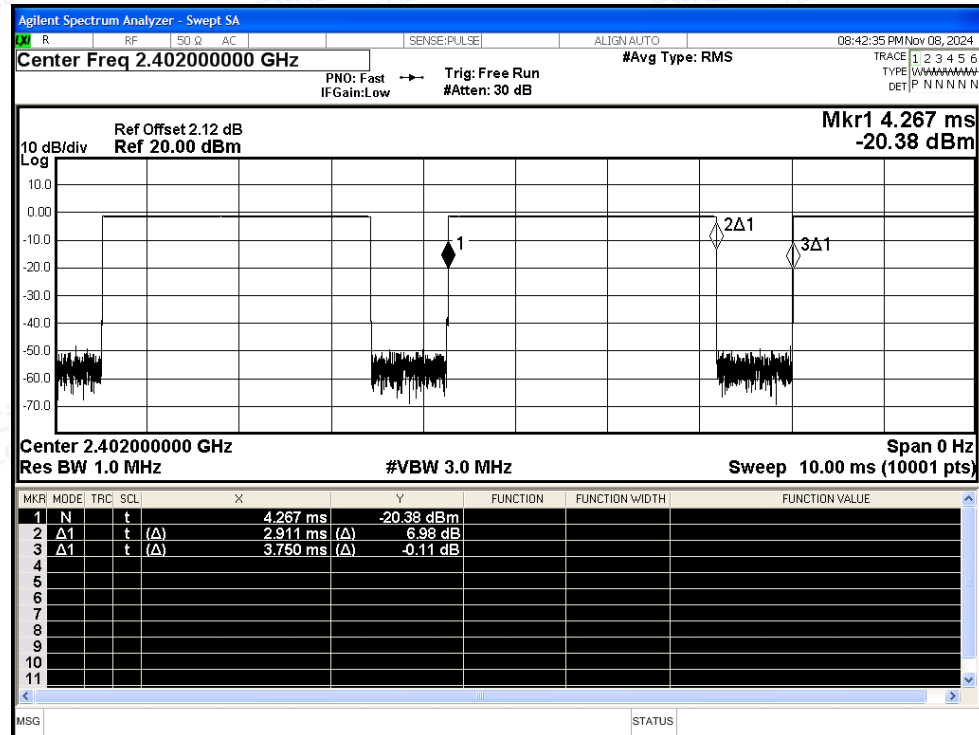
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant	77.63	1.1	0.34
NVNT	1-DH5	2441	Ant	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant	77.23	1.12	0.35



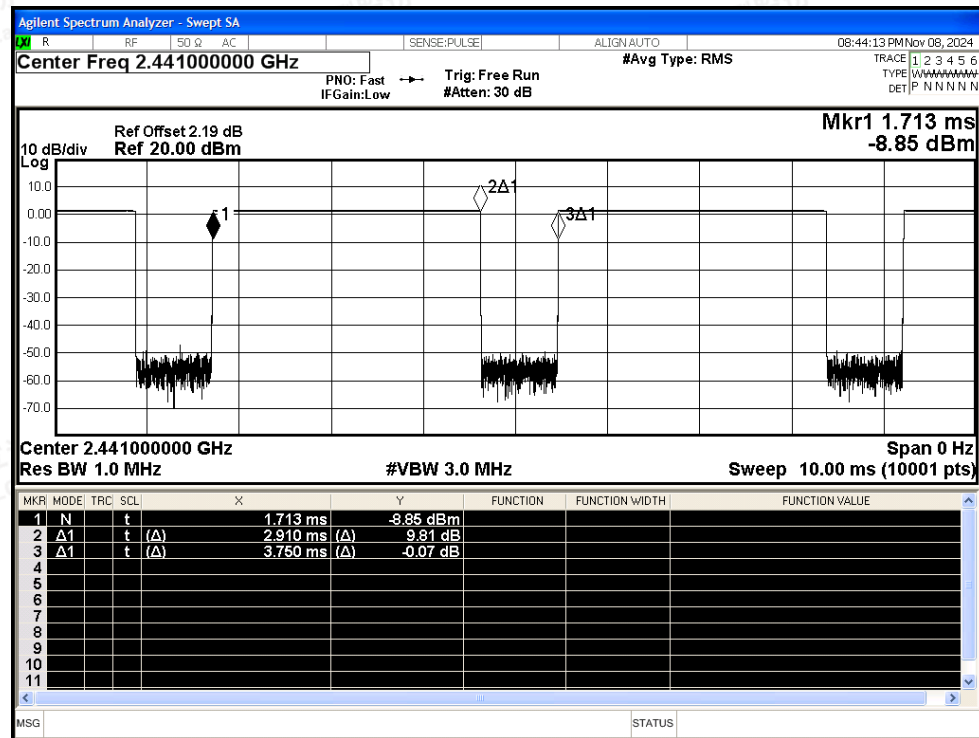


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant



Duty Cycle NVNT 1-DH5 2441MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

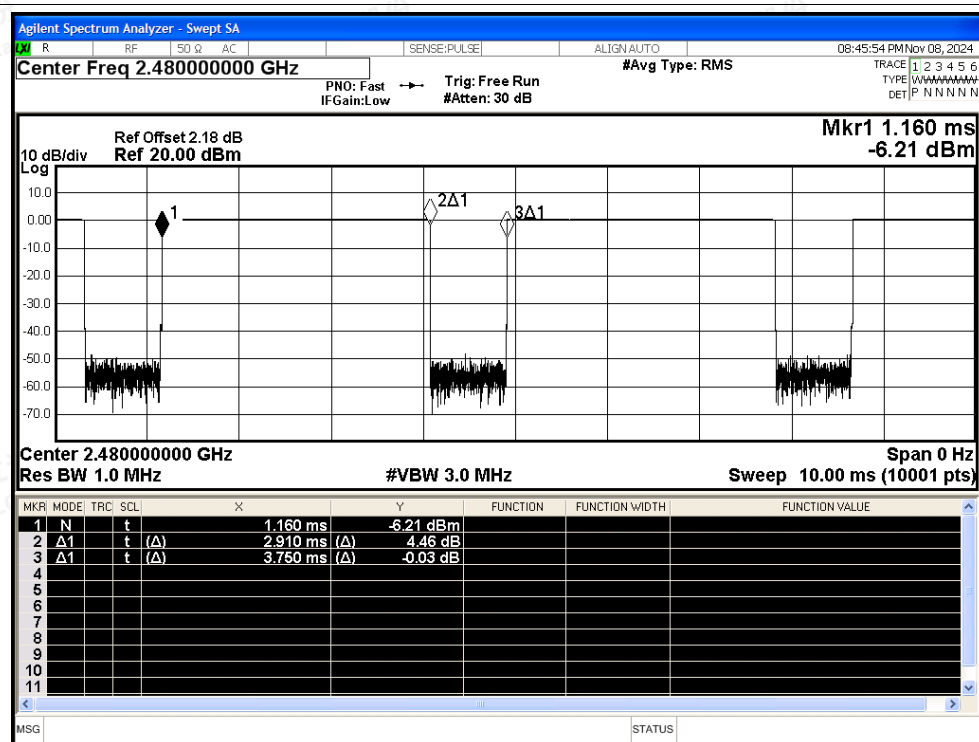
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

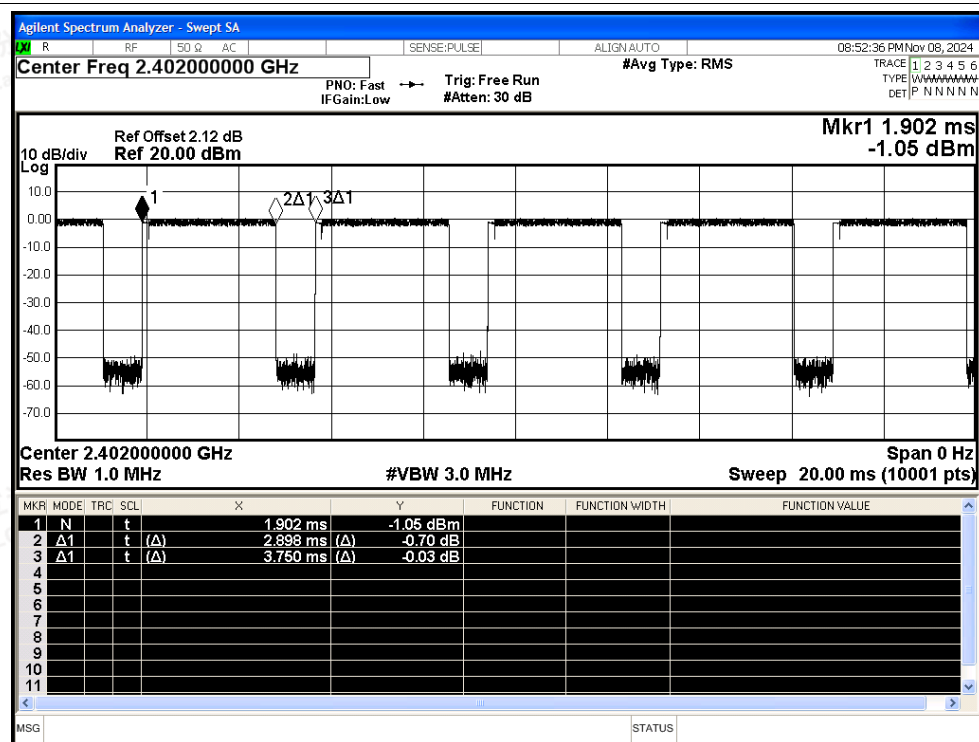
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant



Duty Cycle NVNT 2-DH5 2402MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

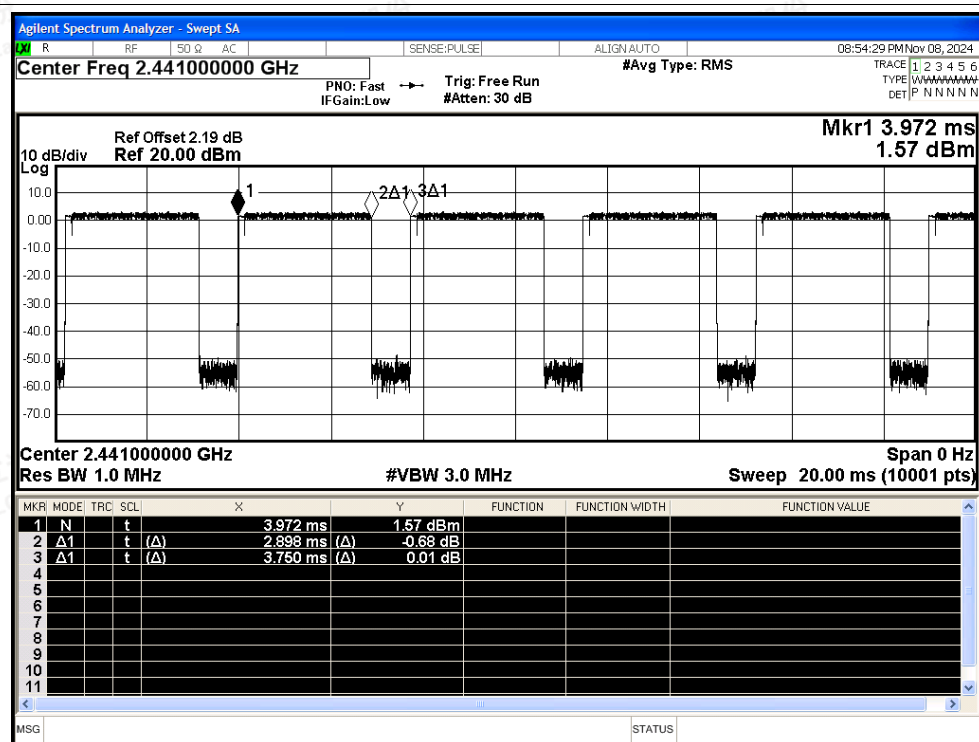
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

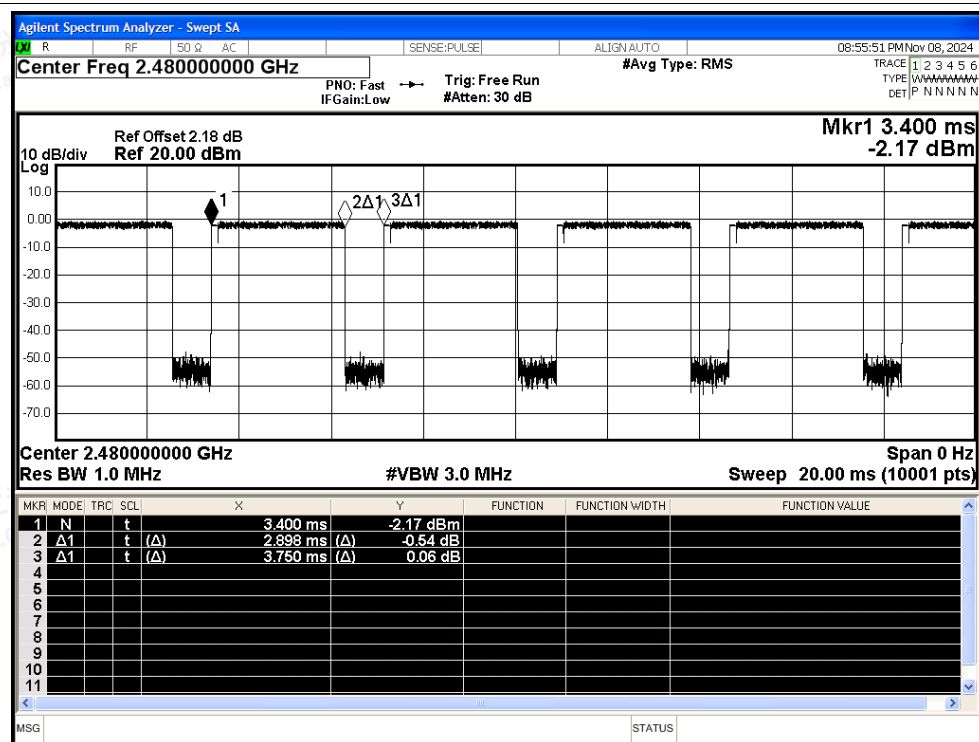
Scan code to check authenticity



Duty Cycle NVNT 2-DH5 2441MHz Ant



Duty Cycle NVNT 2-DH5 2480MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

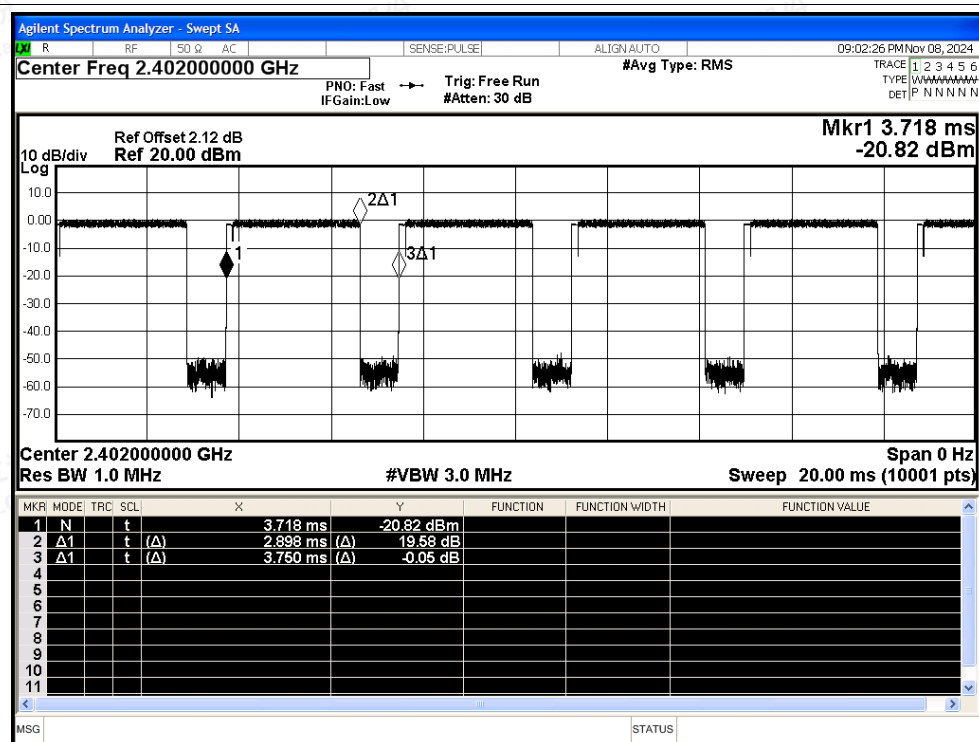
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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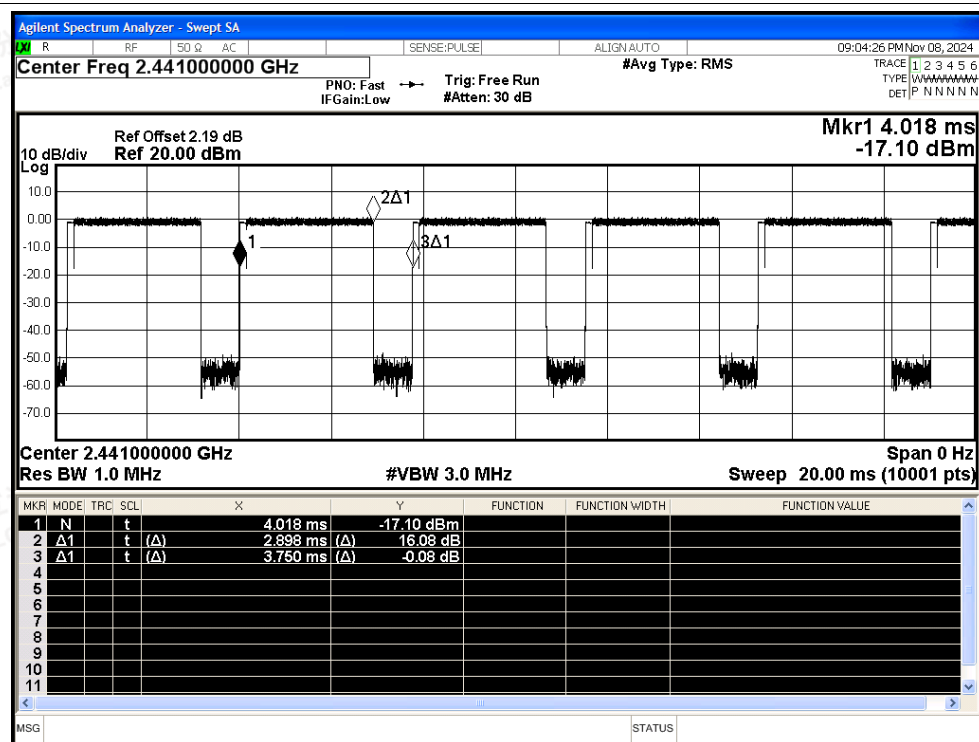
Scan code to check authenticity



Duty Cycle NVNT 3-DH5 2402MHz Ant



Duty Cycle NVNT 3-DH5 2441MHz Ant

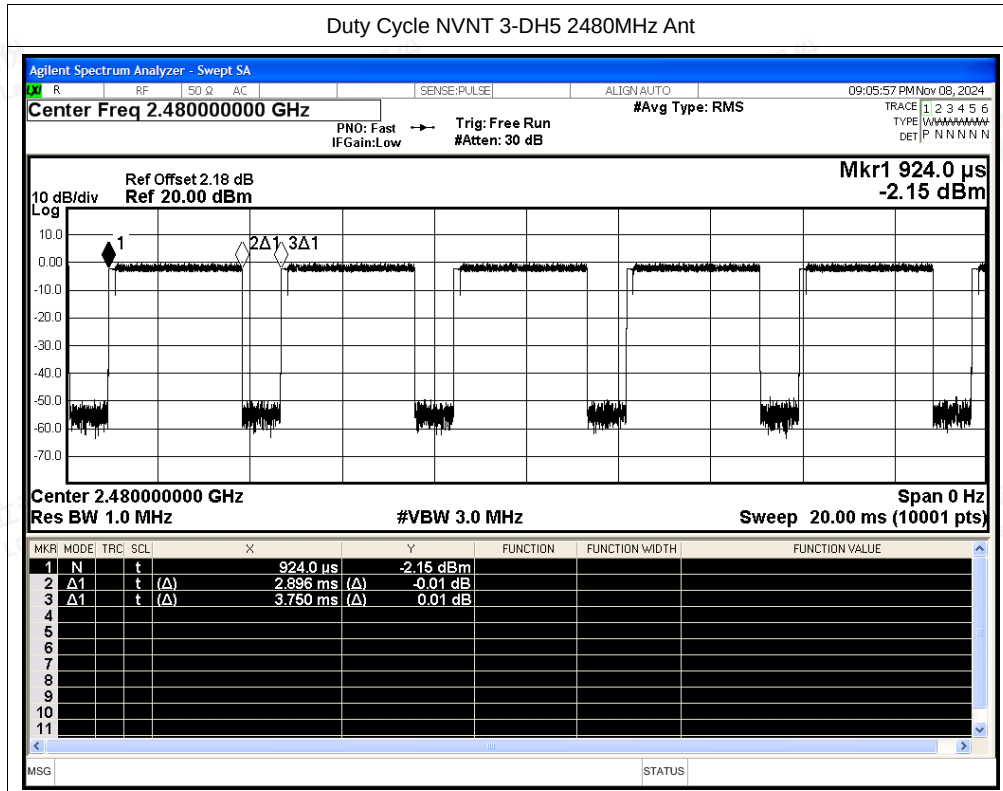


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A.9 Restrict Band

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	Ant	No-Hopping	2310	-50.39	2	-	46.87	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-58.62	2	1.1	39.74	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2337.456	-47.94	2	-	49.32	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2357.52	-57.54	2	1.1	40.82	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-51.49	2	-	45.77	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-58.44	2	1.1	39.92	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-47.03	2	-	50.23	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-57.92	2	1.1	40.44	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2484.136	-45.53	2	-	51.73	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2484.592	-57.05	2	1.1	41.31	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-49.96	2	-	47.3	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-58.52	2	1.1	39.84	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-51.34	2	-	45.92	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-58.54	2	1.12	39.84	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2382.768	-47.07	2	-	50.19	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2389.776	-57.55	2	1.12	40.83	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-50.29	2	-	46.97	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-58.26	2	1.12	40.12	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-48.82	2	-	48.44	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-57.17	2	1.12	41.21	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2485.768	-46.93	2	-	50.33	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2496.256	-57.05	2	1.12	41.33	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-50.62	2	-	46.64	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-57.87	2	1.12	40.51	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-51.07	2	-	46.19	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-59.12	2	1.12	39.26	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2315.568	-47.25	2	-	50.01	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2389.392	-57.59	2	1.12	40.79	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-51.69	2	-	45.57	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-58.04	2	1.12	40.34	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-49.66	2	-	47.6	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-57.27	2	1.12	41.11	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.944	-47.01	2	-	50.25	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2488.696	-57.09	2	1.12	41.29	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-50.13	2	-	47.13	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-58.37	2	1.12	40.01	Average	54	Pass



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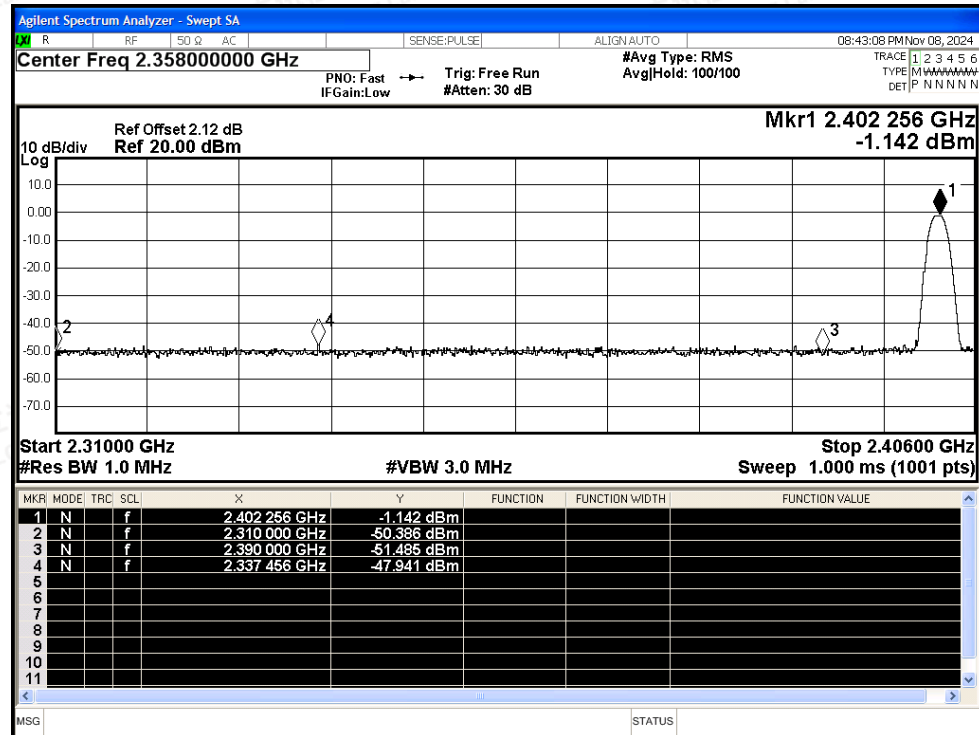
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

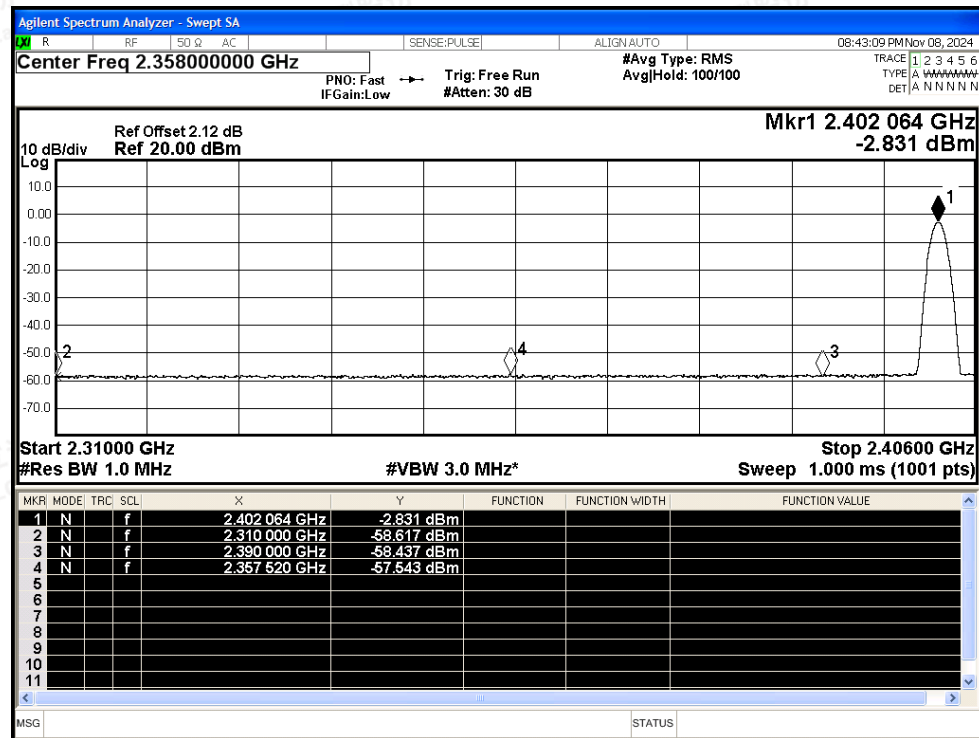


Test Graphs

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



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

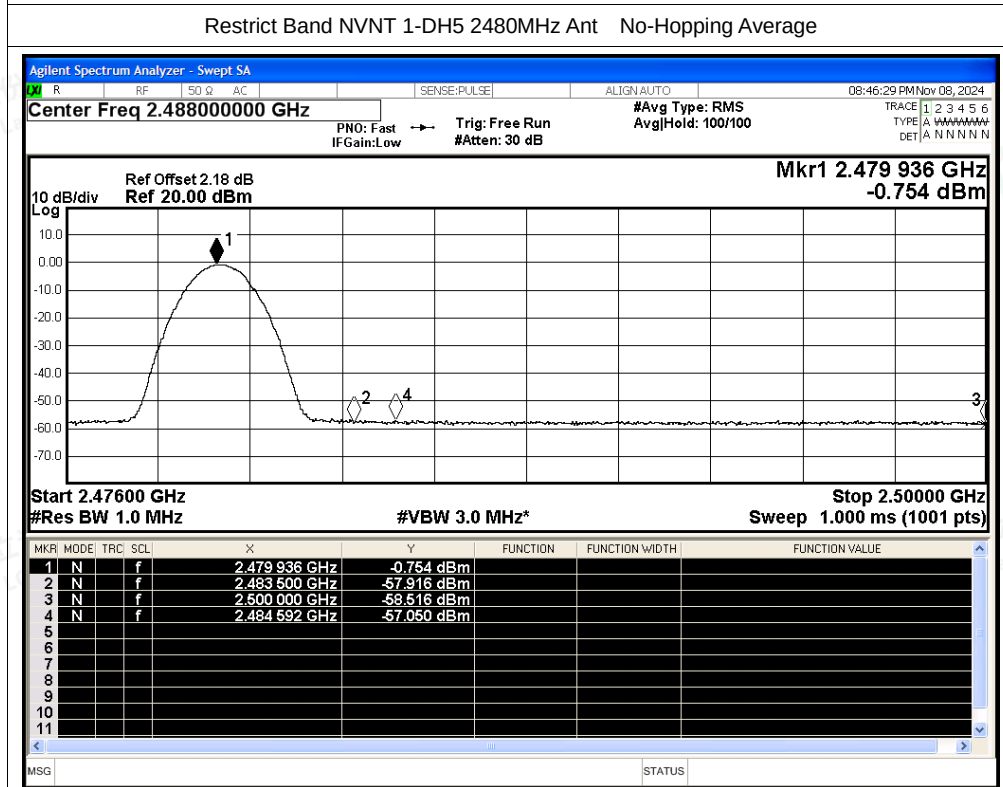
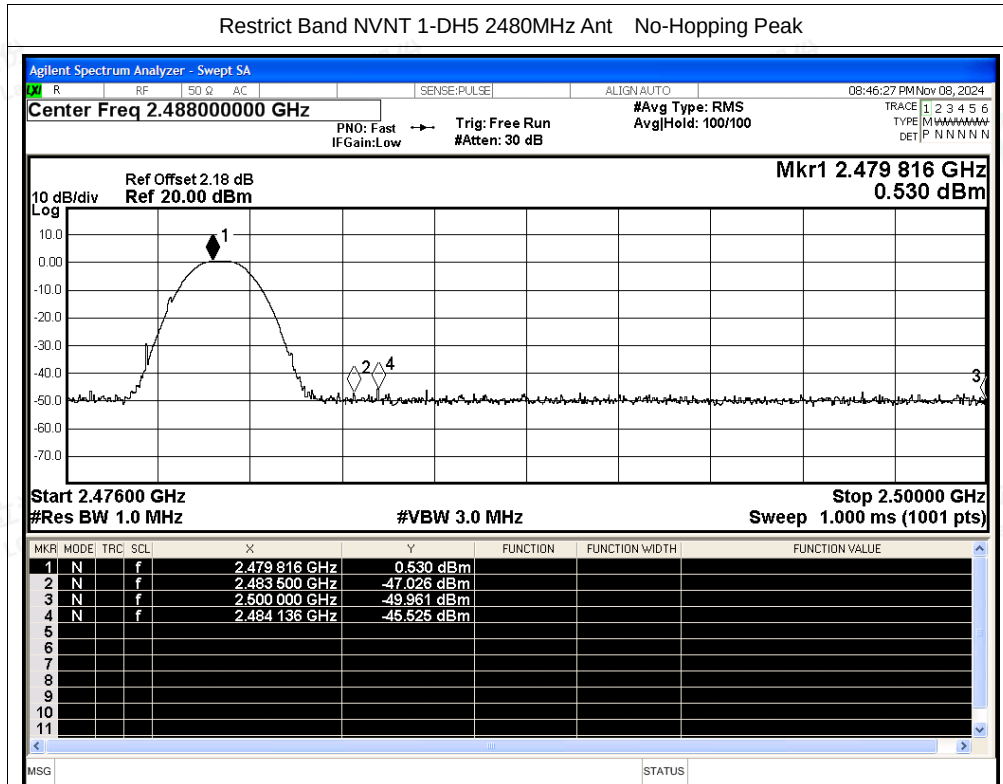


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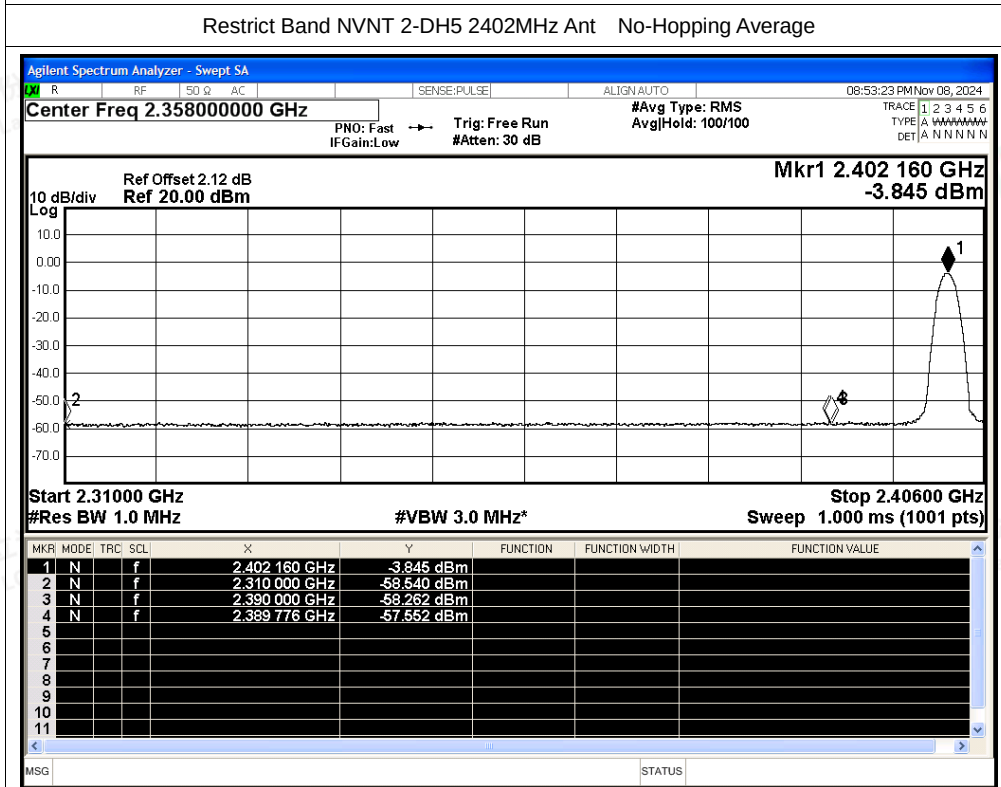
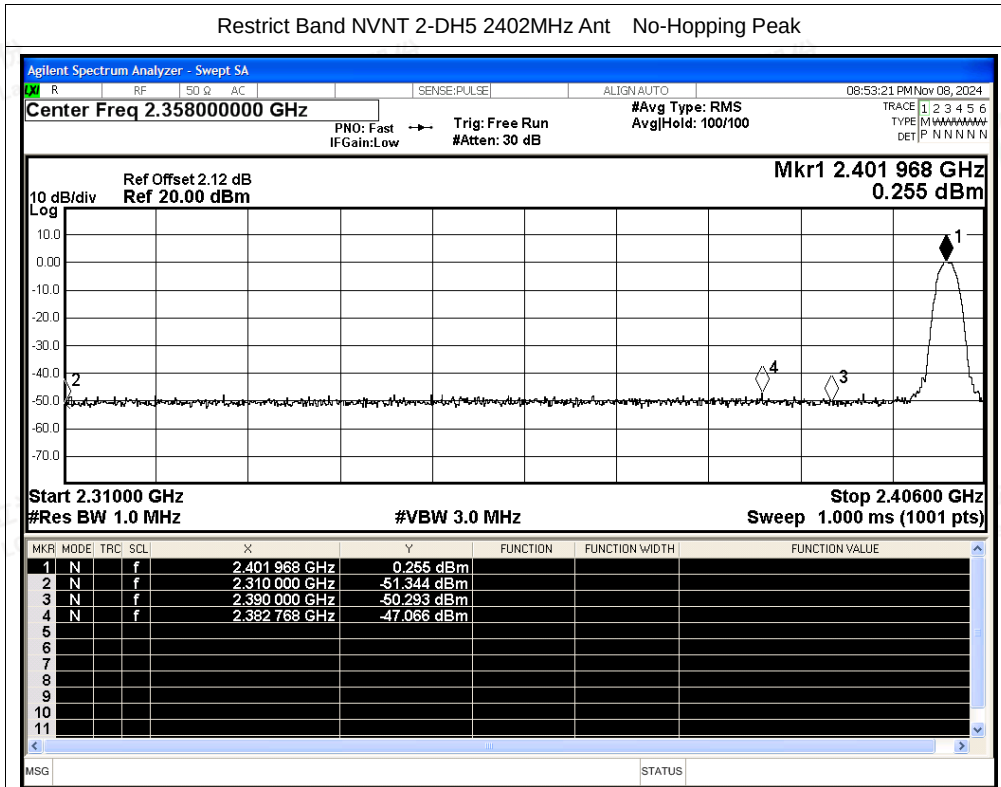


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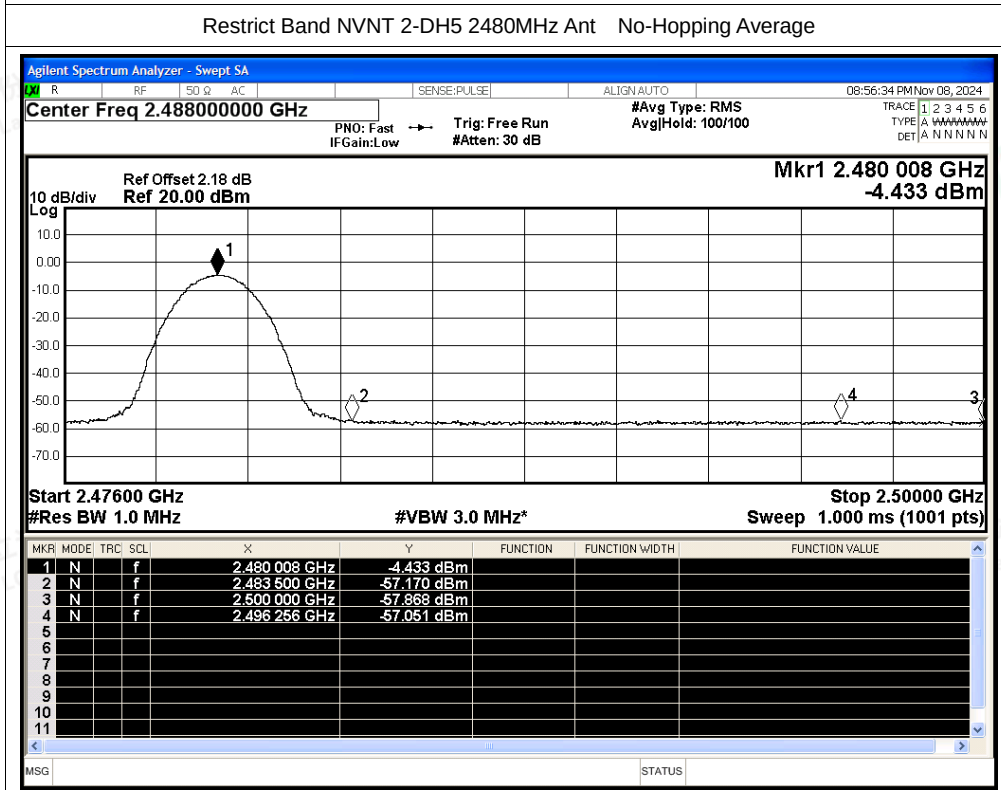
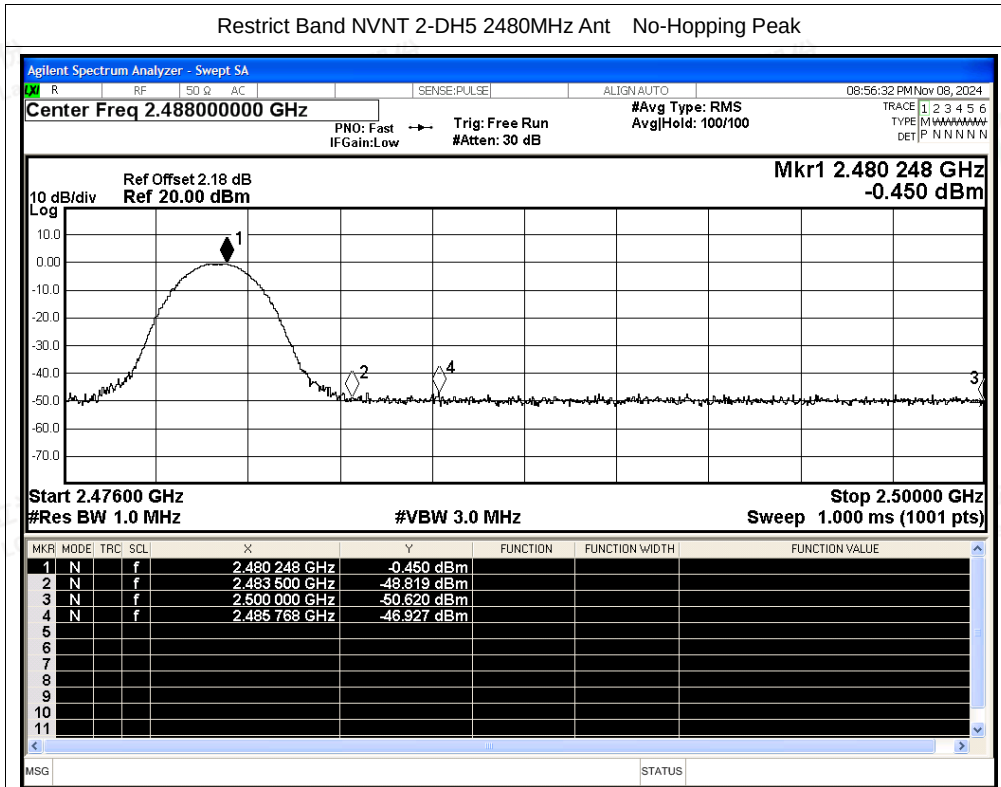


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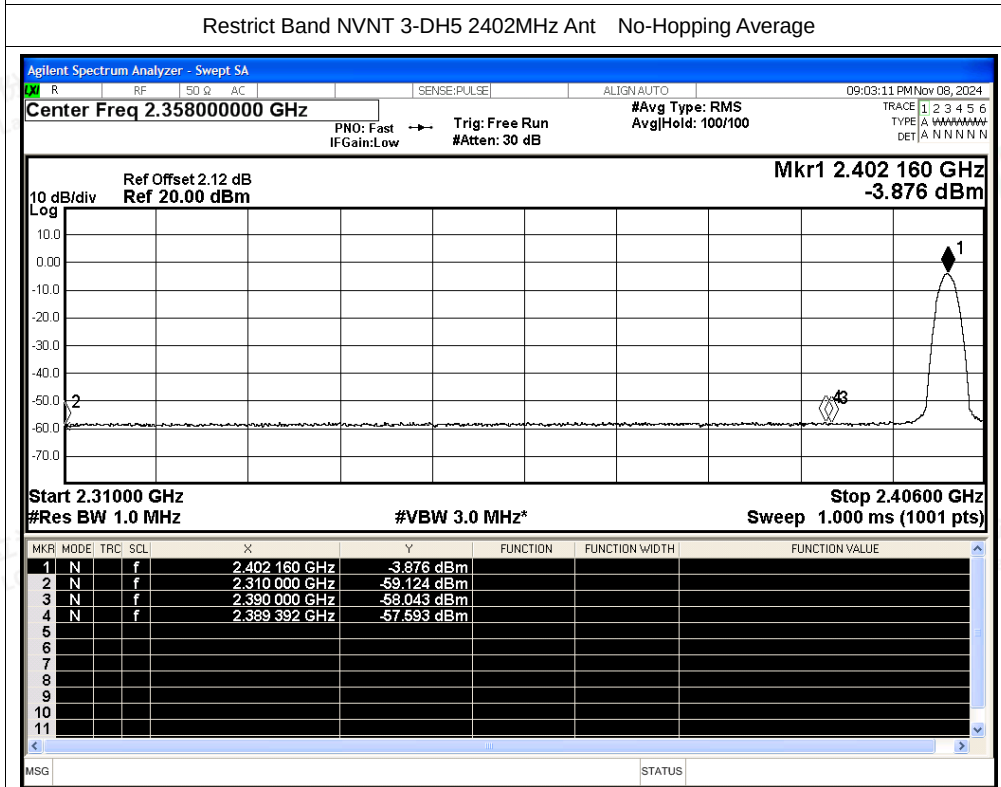
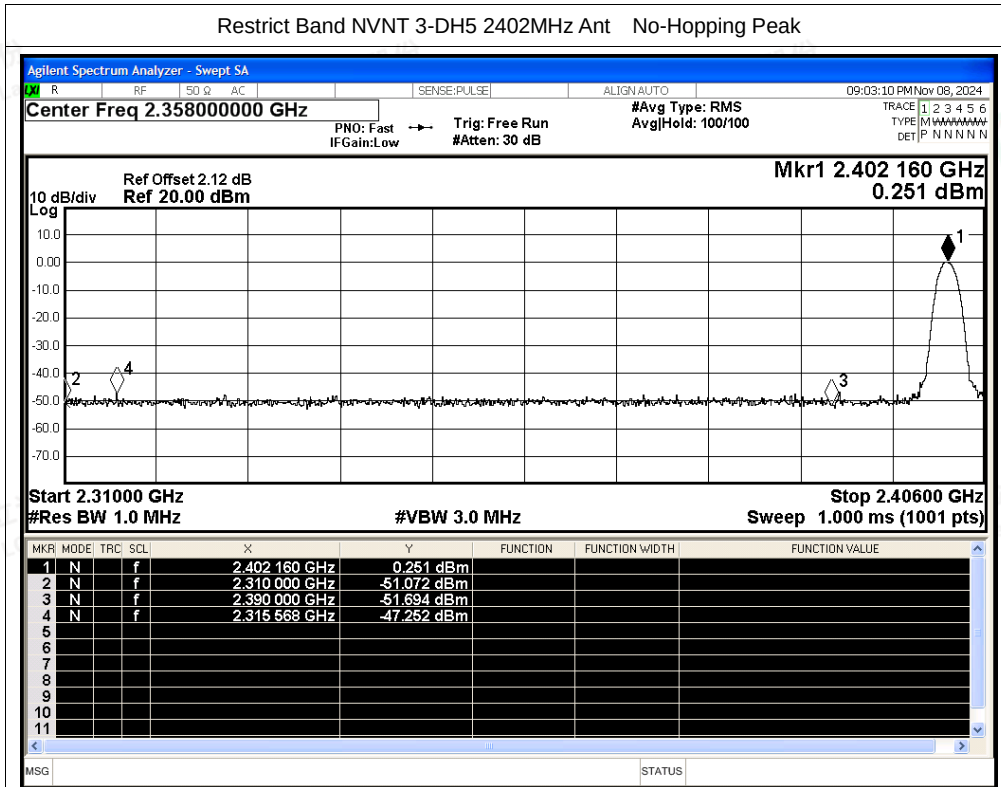


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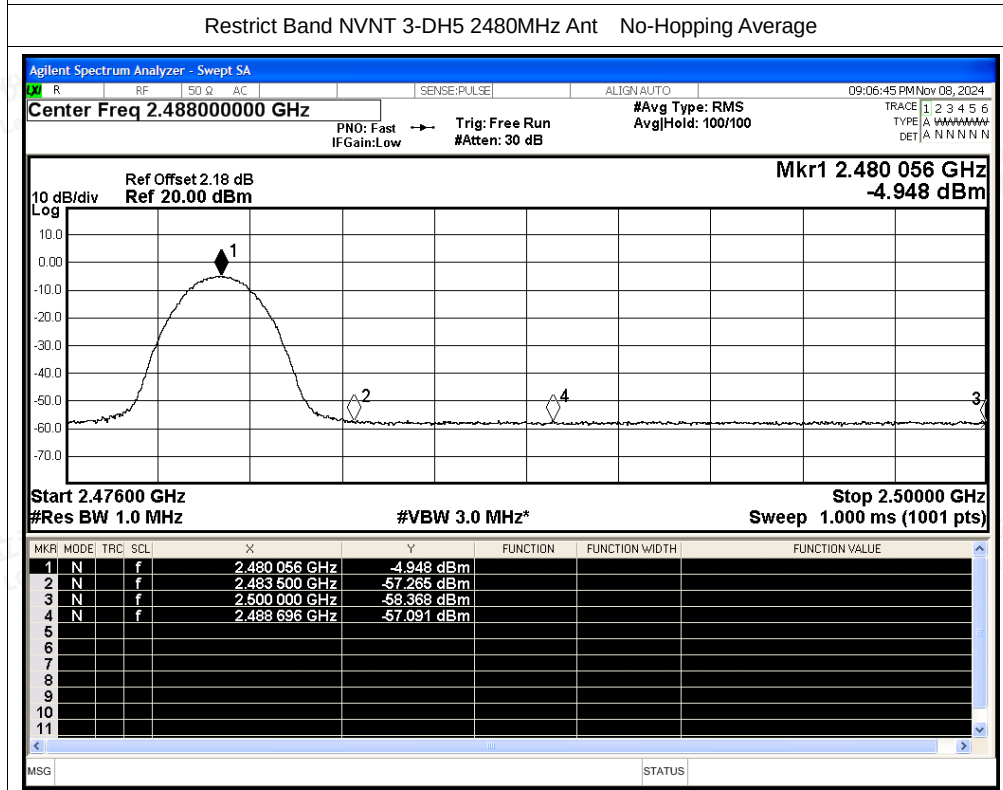
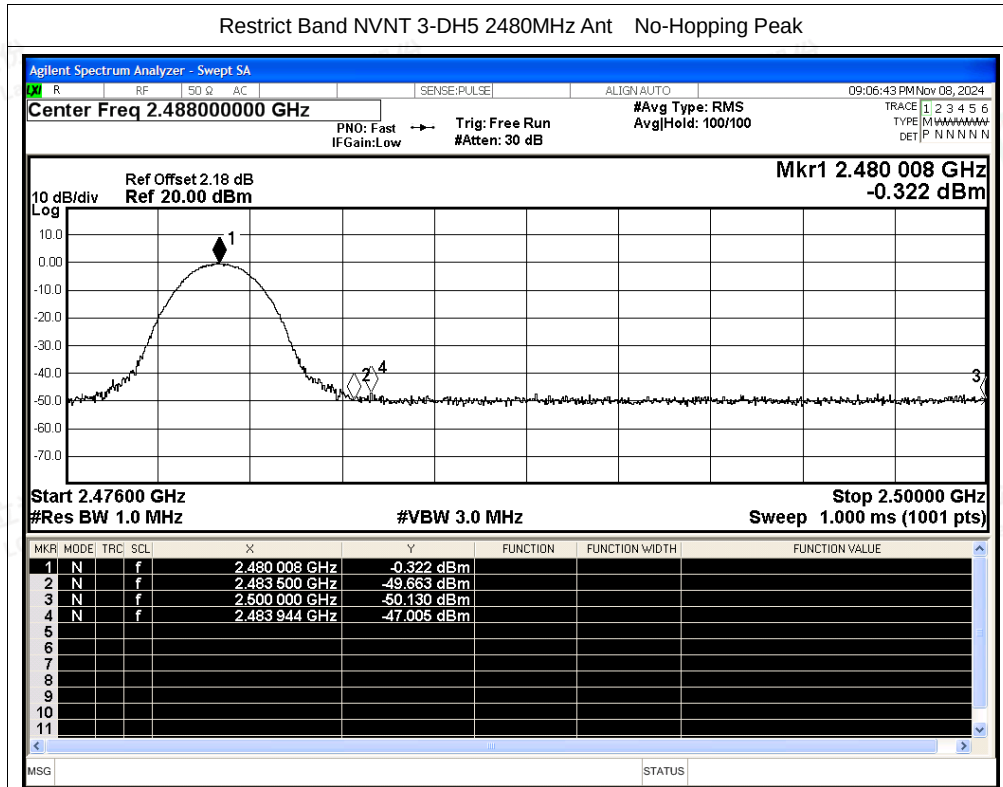


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