



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Portable Outdoor Speaker

Test Model: Mirtune C3 Plus

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	Ant1	0.995	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.008	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.997	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.327	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.32	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.285	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.292	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.318	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.287	N/A	Pass



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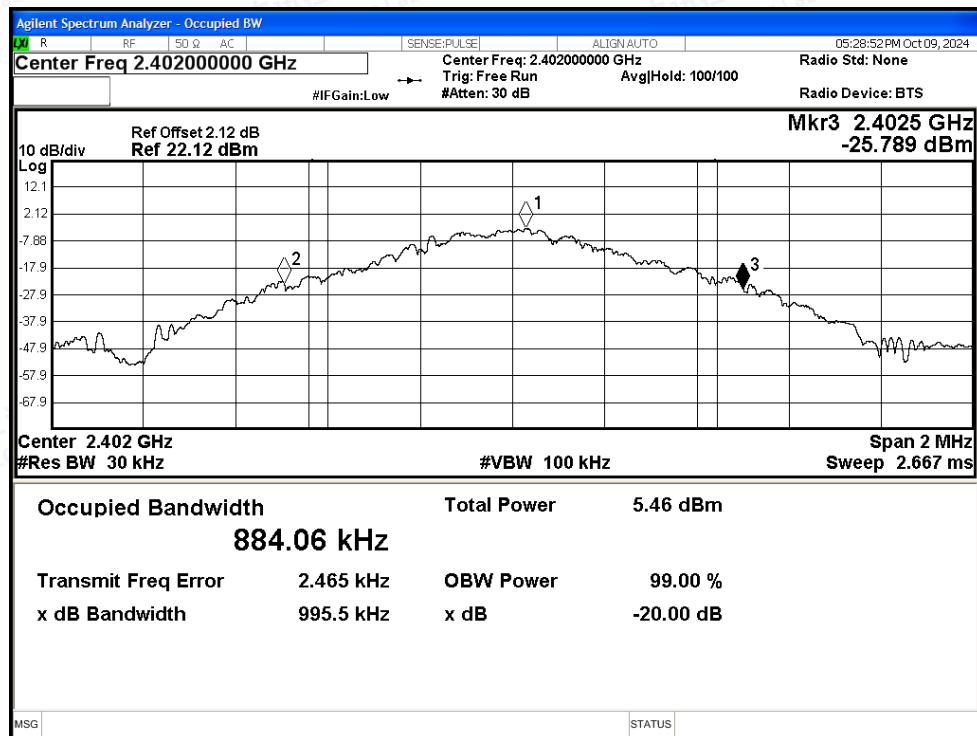
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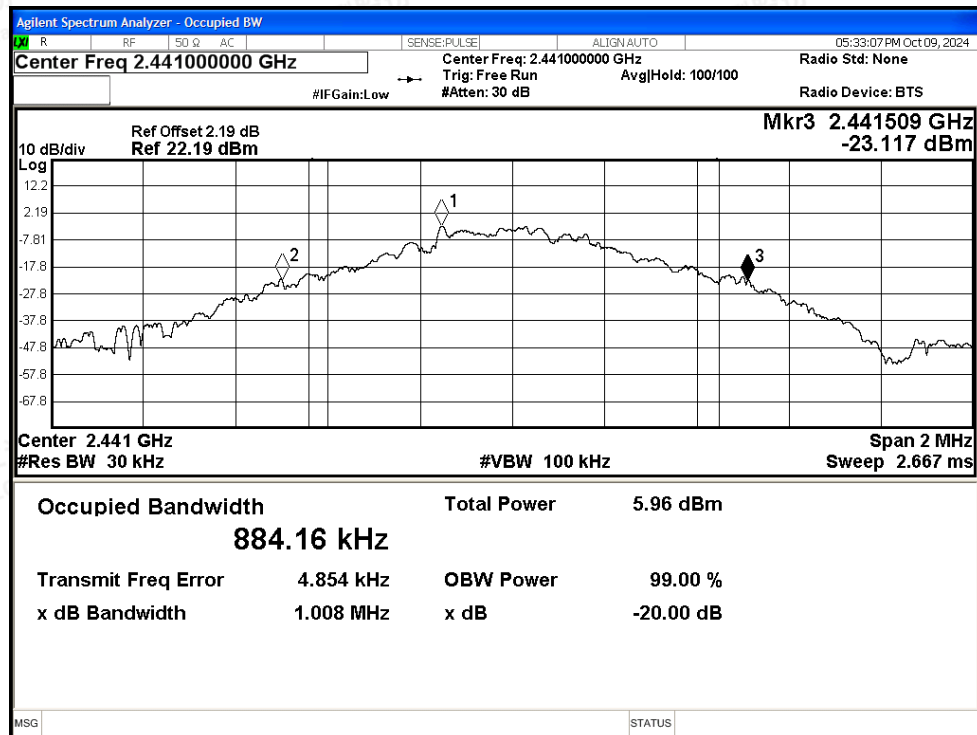


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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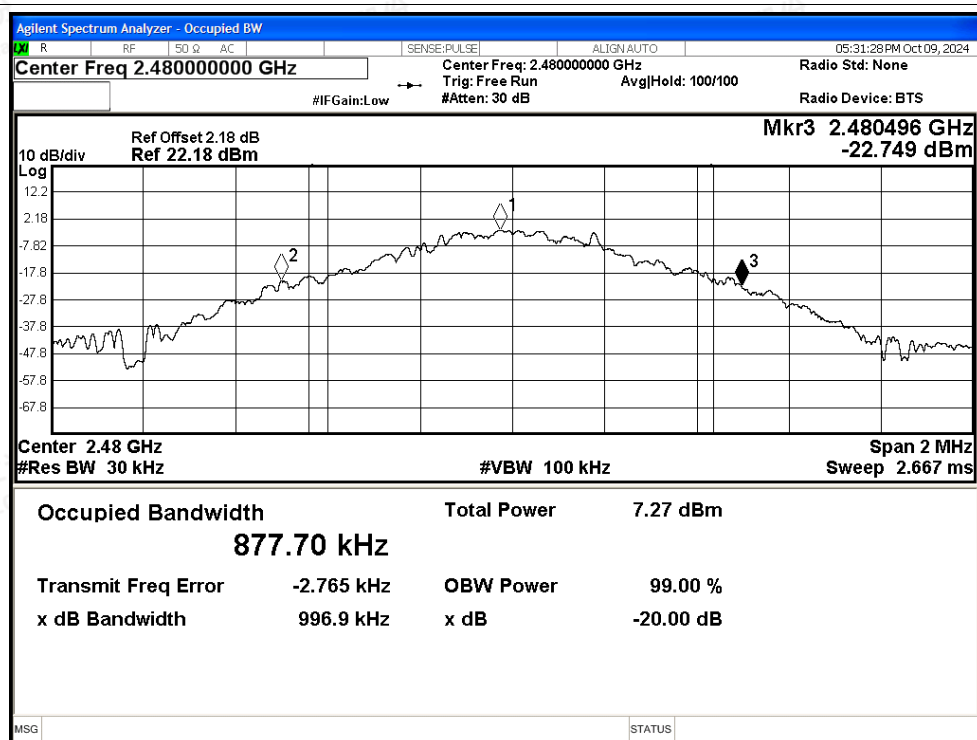
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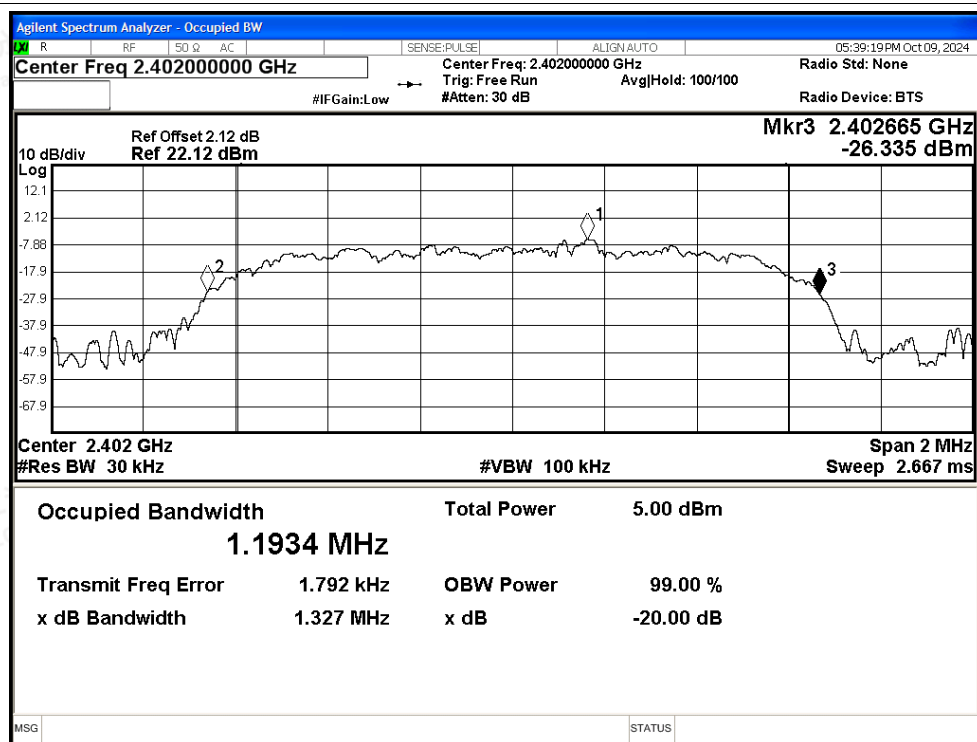
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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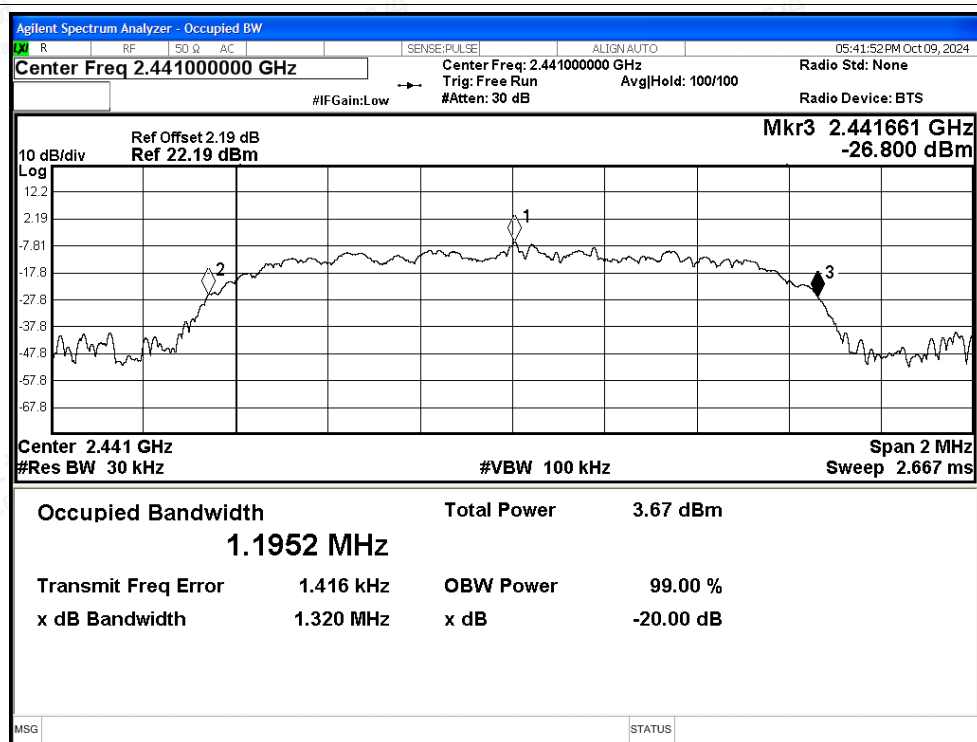
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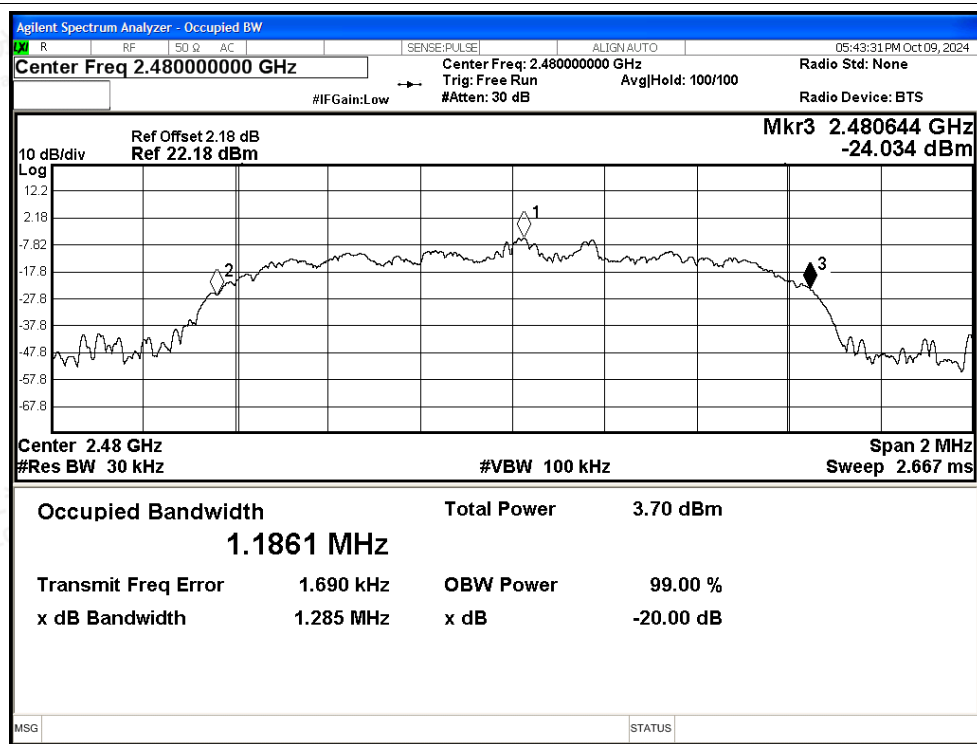
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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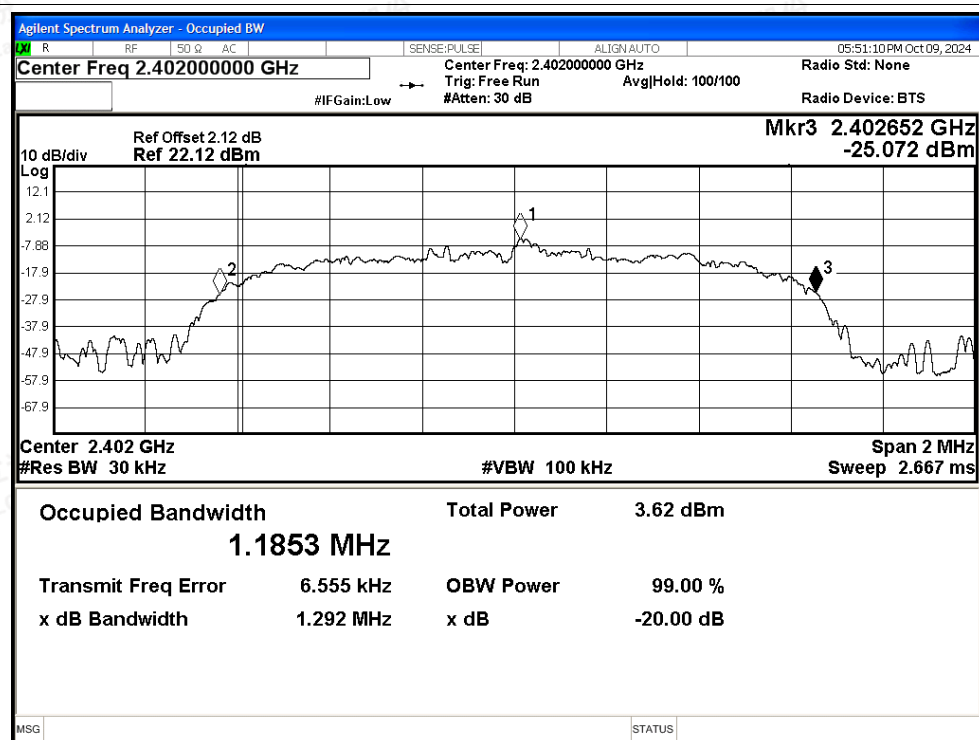
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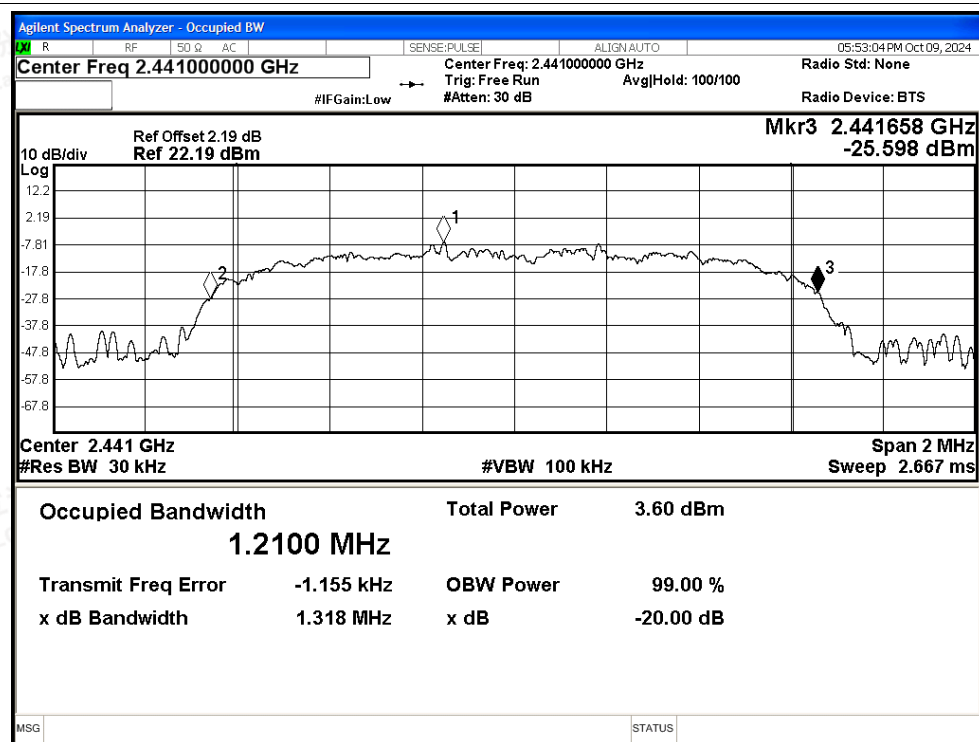
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

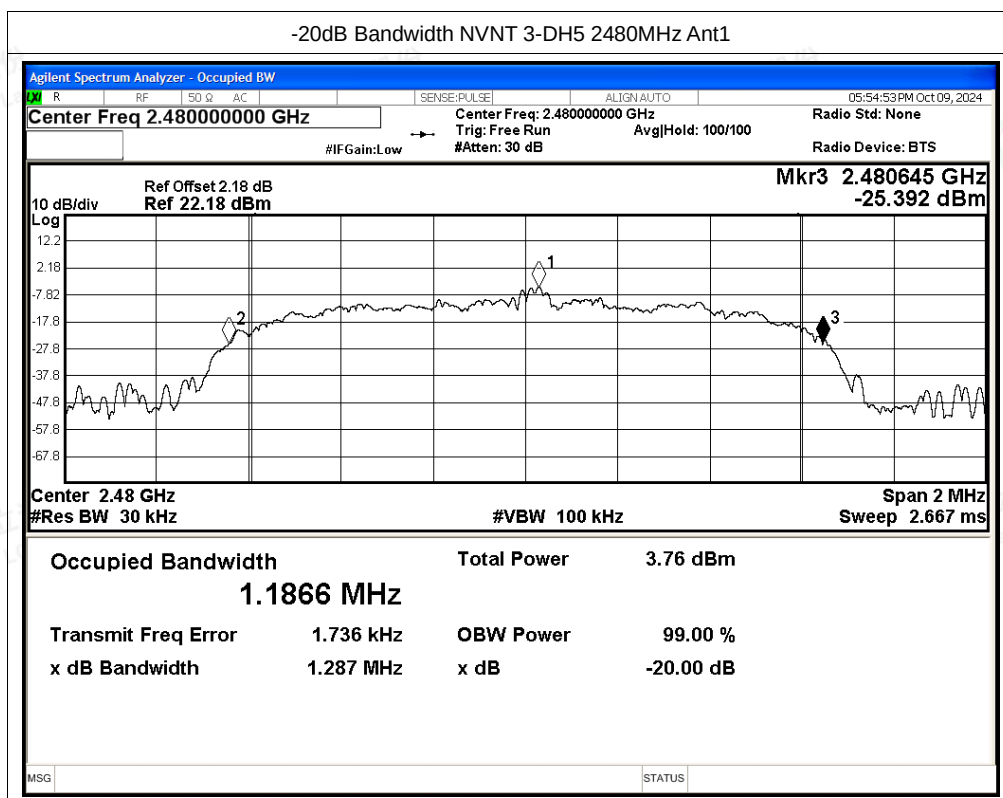


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.55	21	Pass
NVNT	1-DH5	2441	Ant1	-0.2	21	Pass
NVNT	1-DH5	2480	Ant1	1.22	21	Pass
NVNT	2-DH5	2402	Ant1	1.13	21	Pass
NVNT	2-DH5	2441	Ant1	-0.31	21	Pass
NVNT	2-DH5	2480	Ant1	-0.88	21	Pass
NVNT	3-DH5	2402	Ant1	-0.54	21	Pass
NVNT	3-DH5	2441	Ant1	0.07	21	Pass
NVNT	3-DH5	2480	Ant1	-0.48	21	Pass



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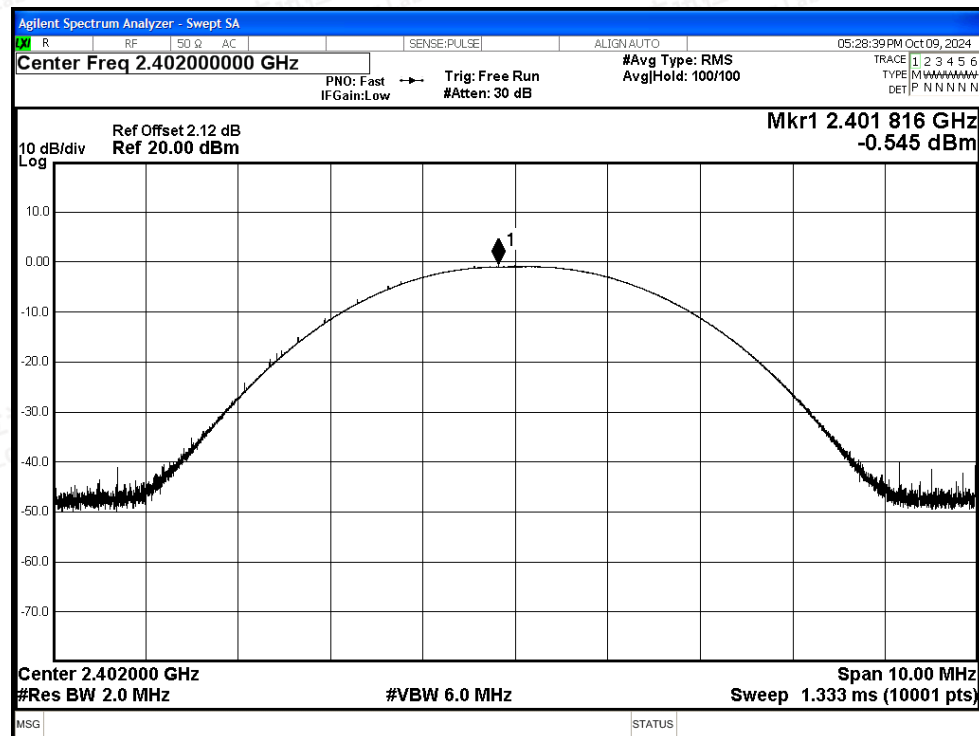
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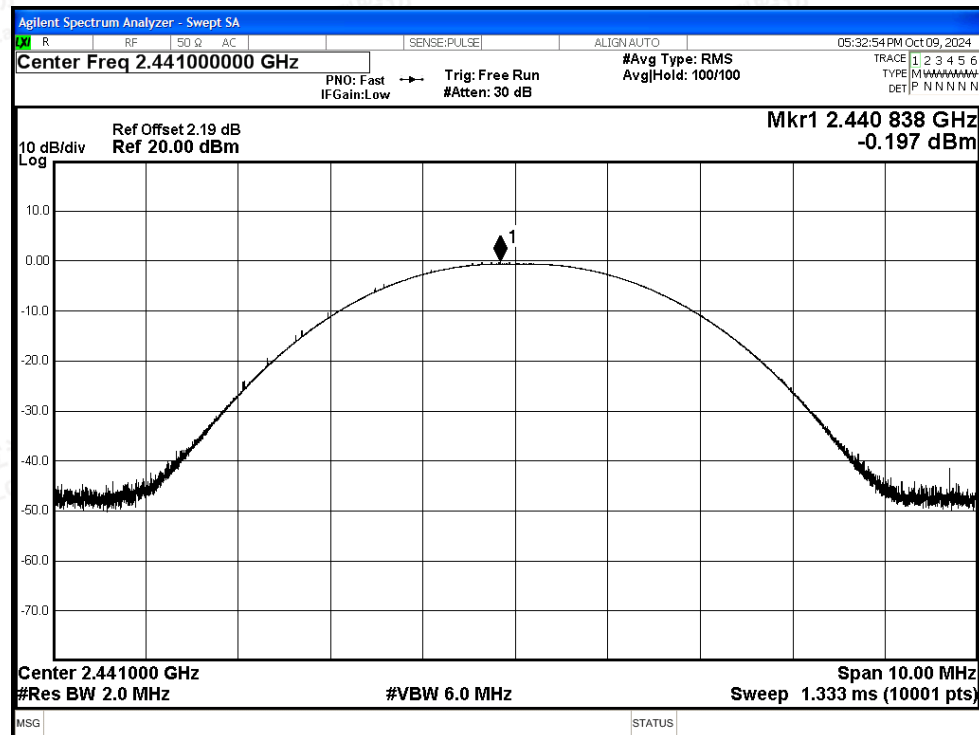


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

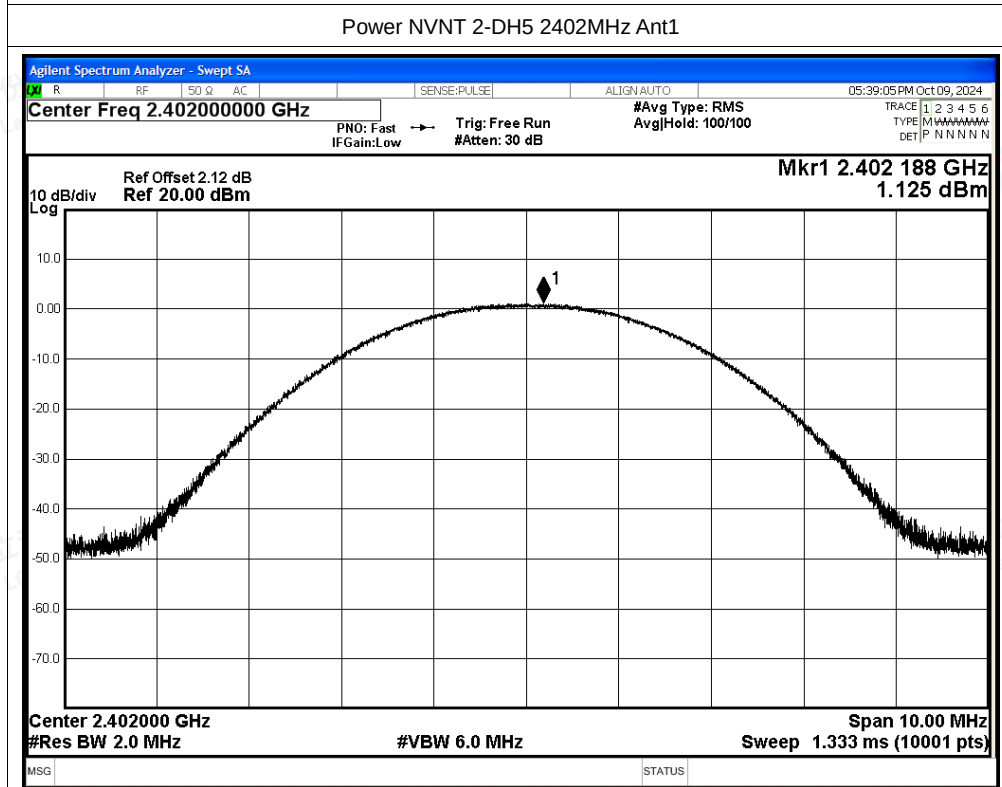
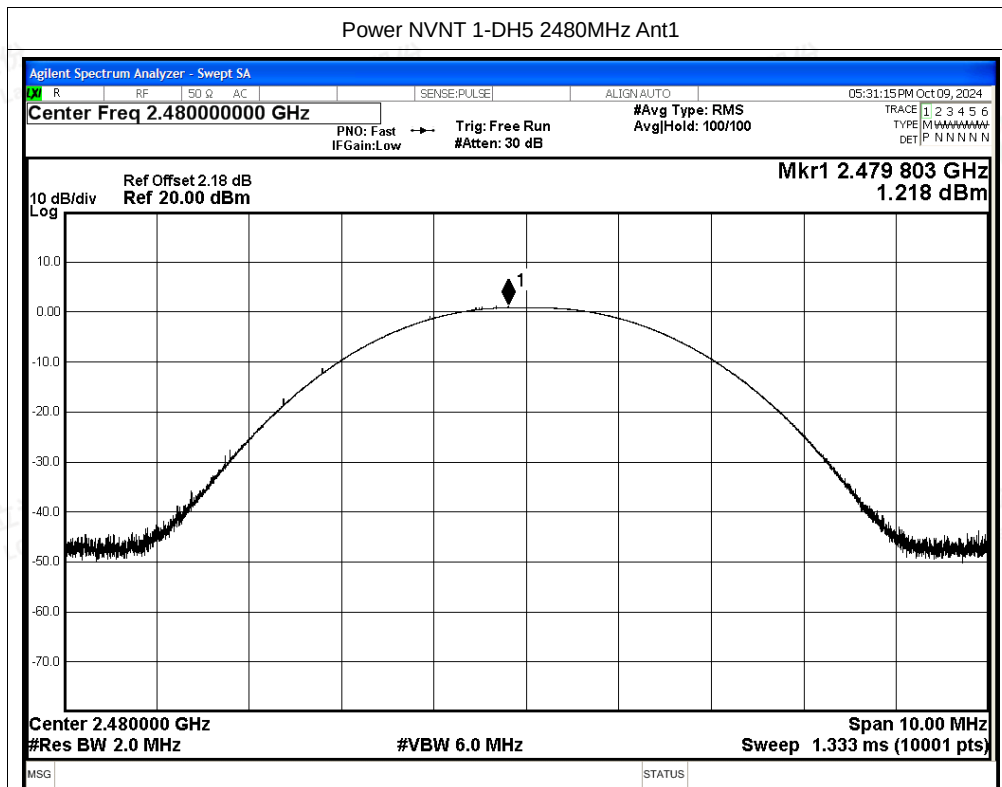


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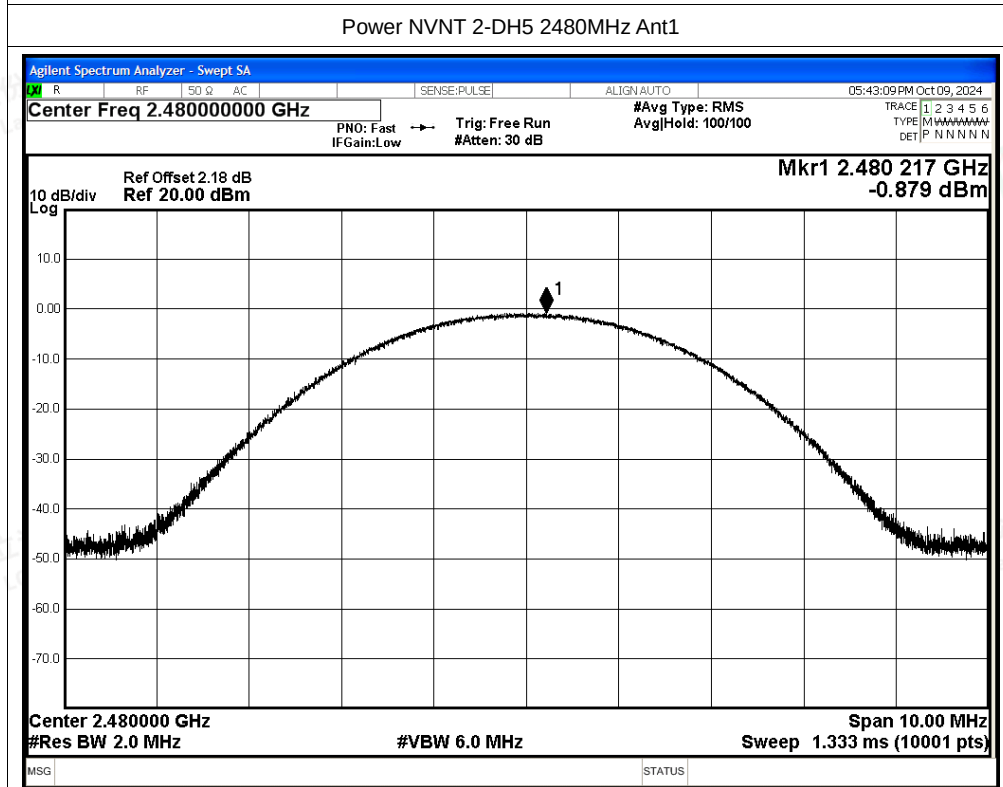
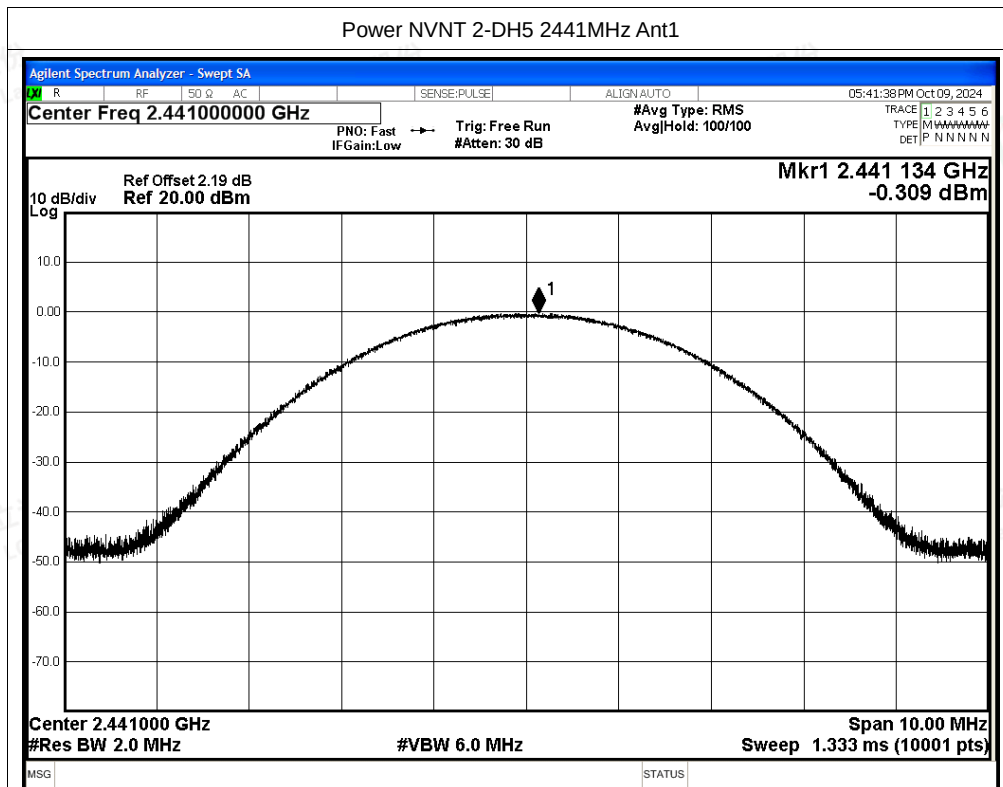


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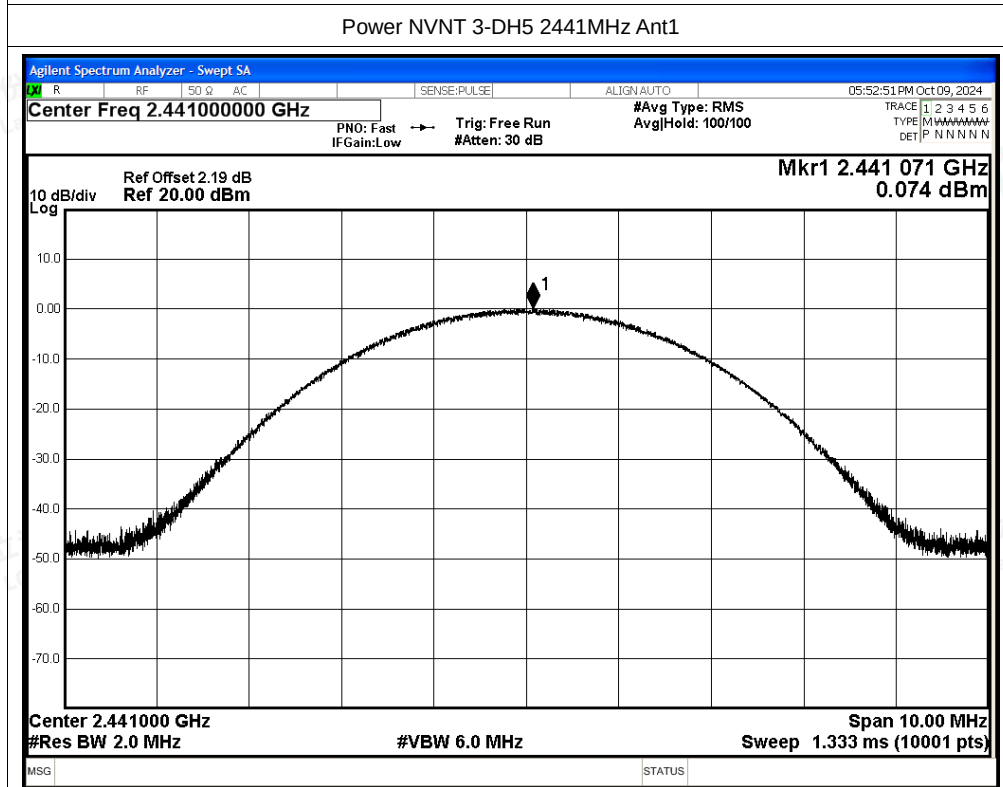
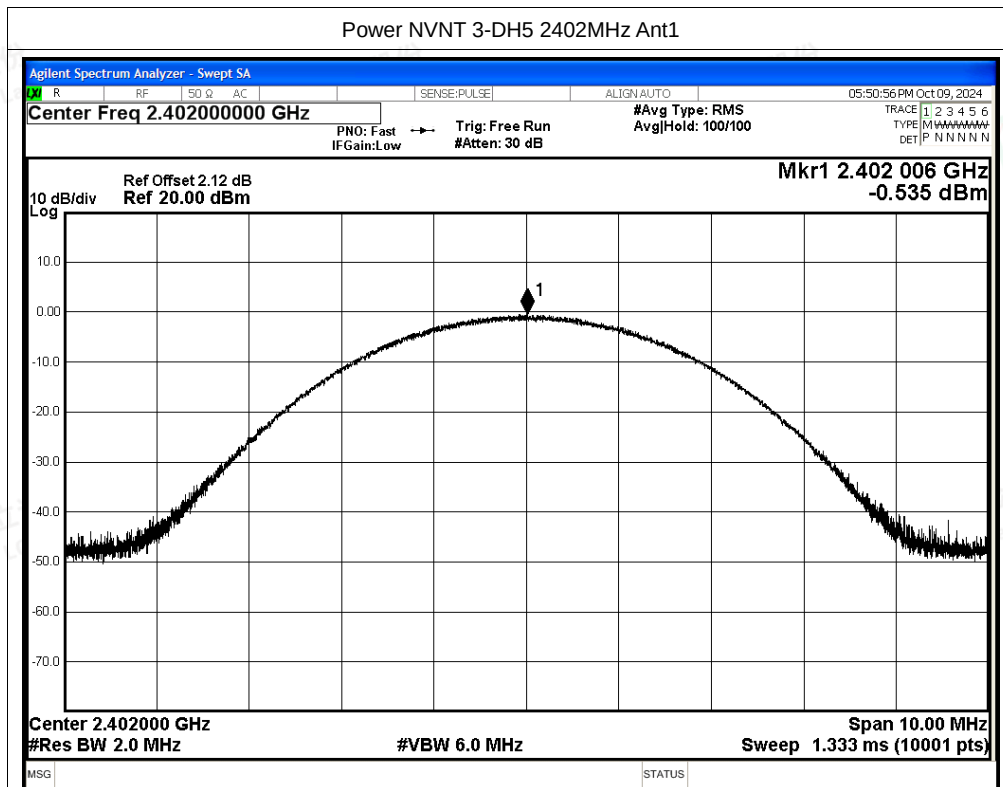


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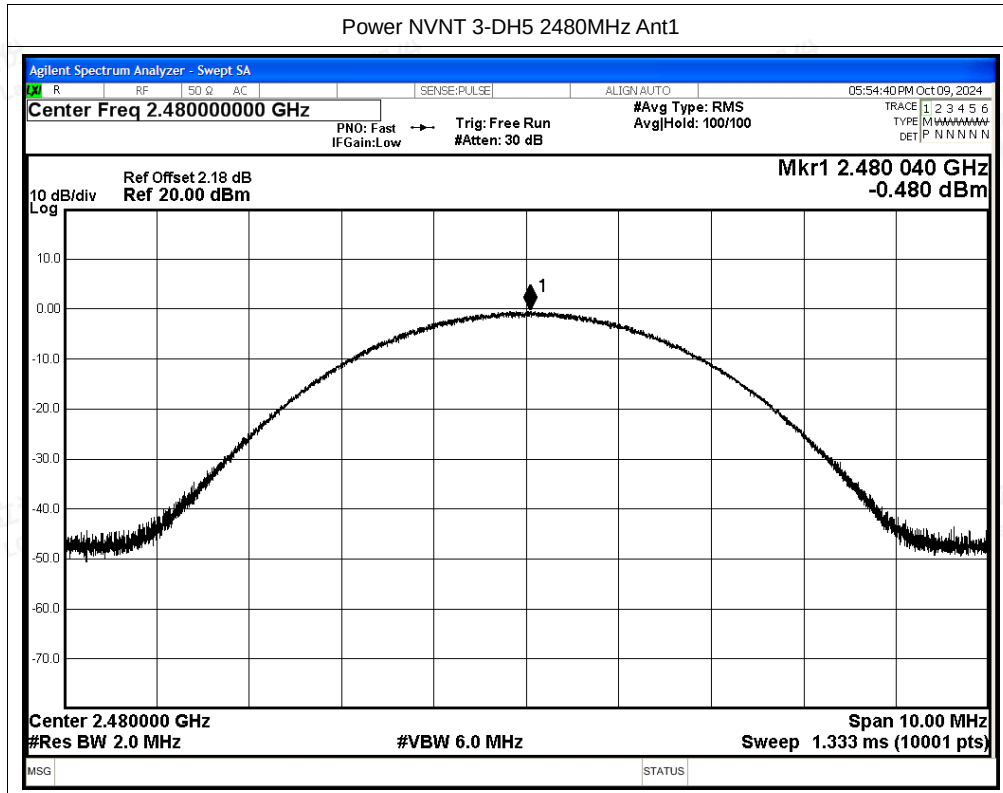


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.832	2402.844	1.012	0.672	Pass
NVNT	2-DH5	Ant1	2402.04	2403.016	0.976	0.885	Pass
NVNT	3-DH5	Ant1	2402.02	2403.022	1.002	0.879	Pass



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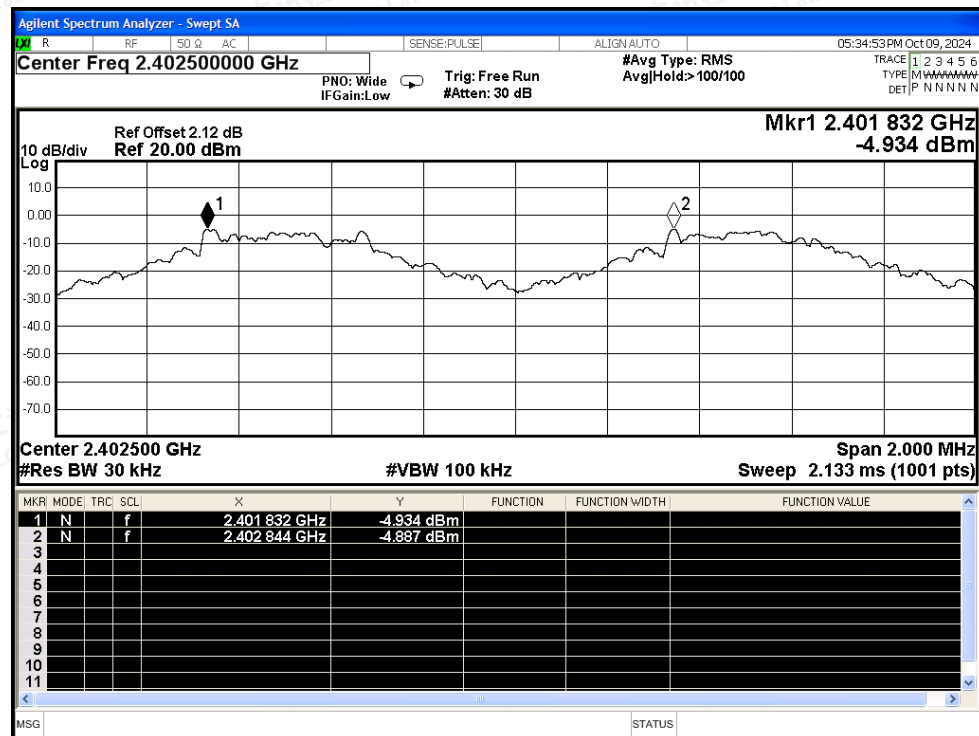
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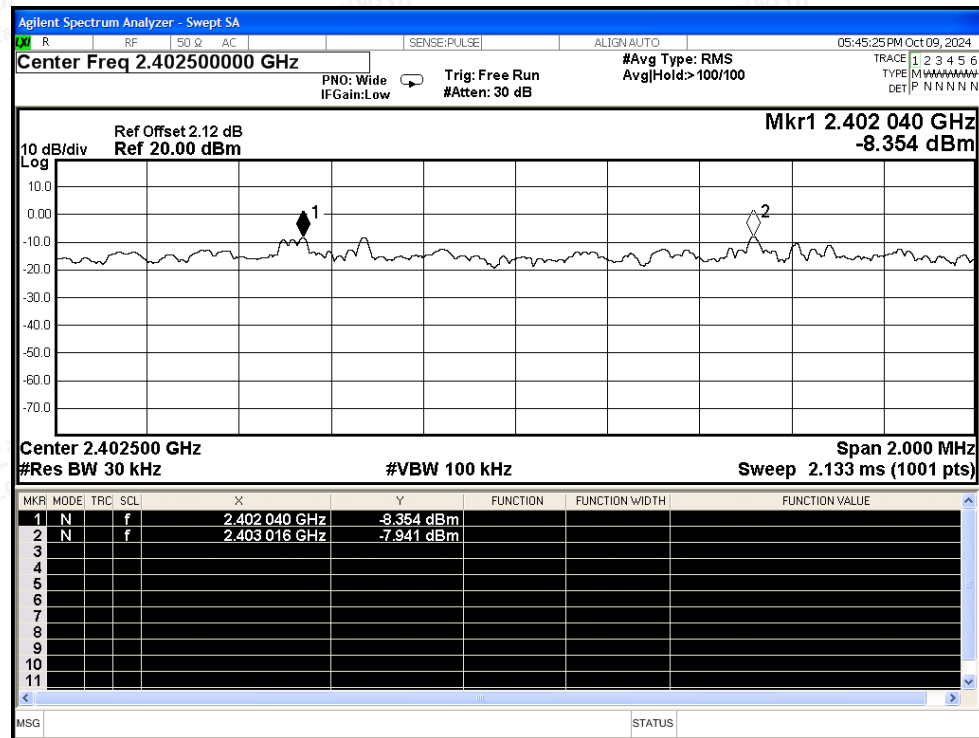


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

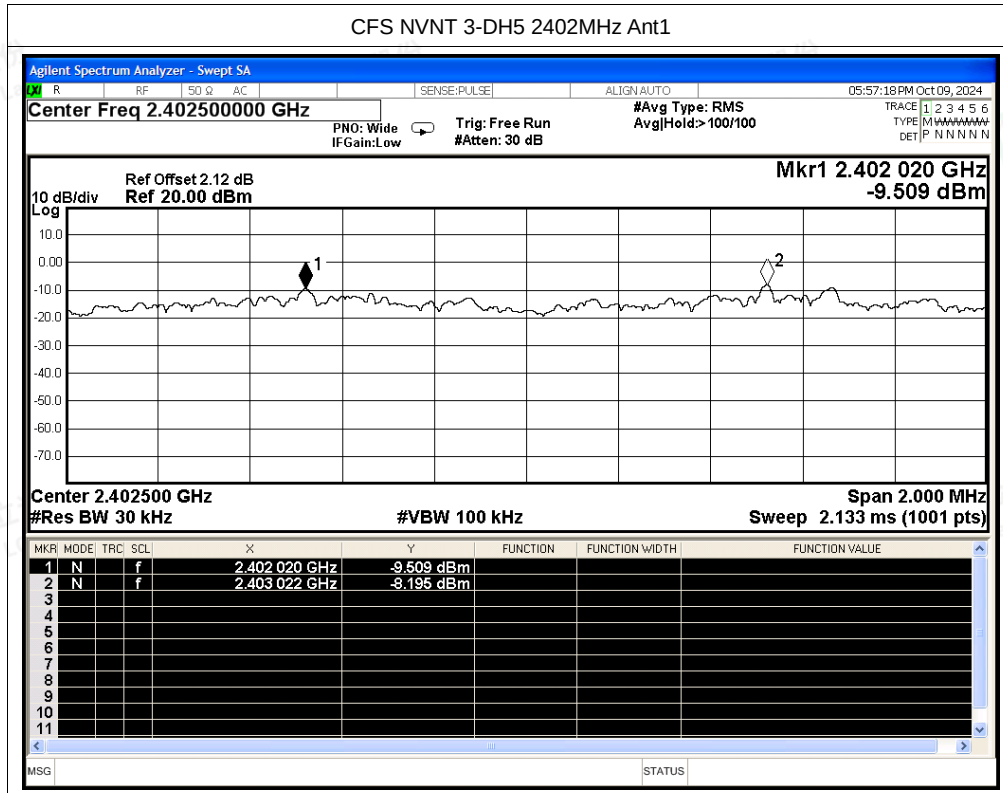


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A.4 Dwell Time

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	2.91	302.64	104	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	333.27	115	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	312.876	108	31600	400	Pass



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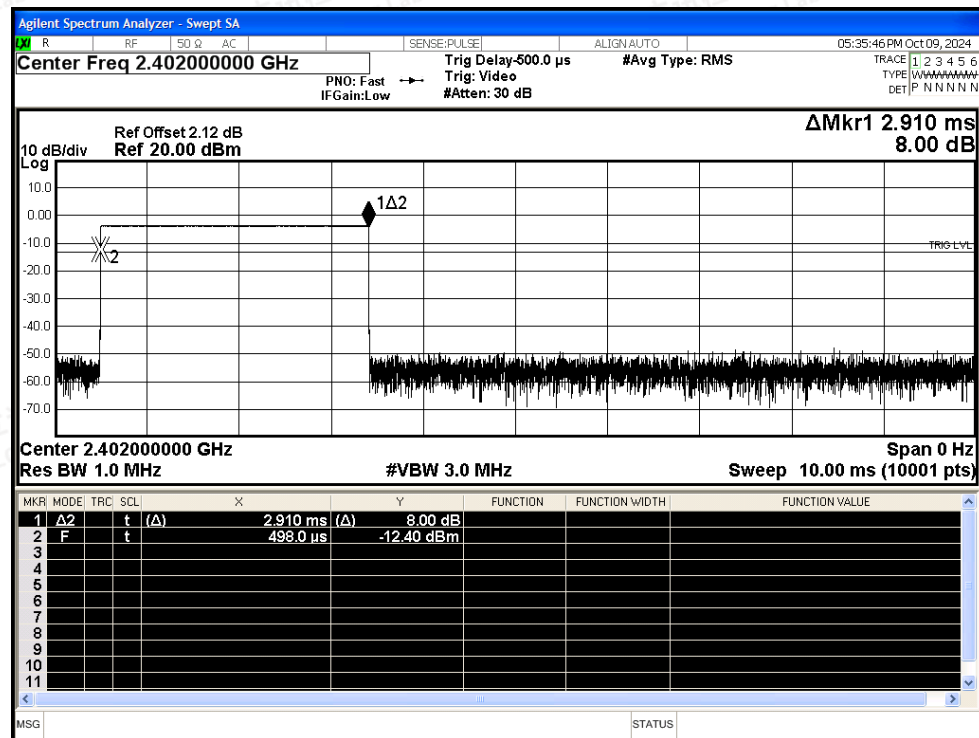
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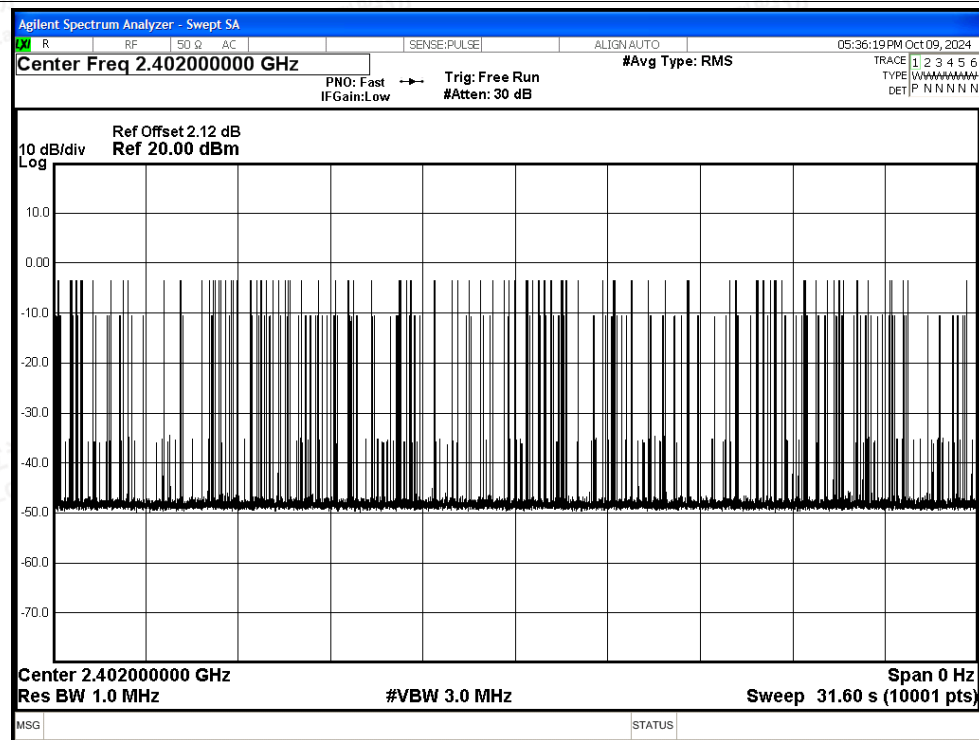


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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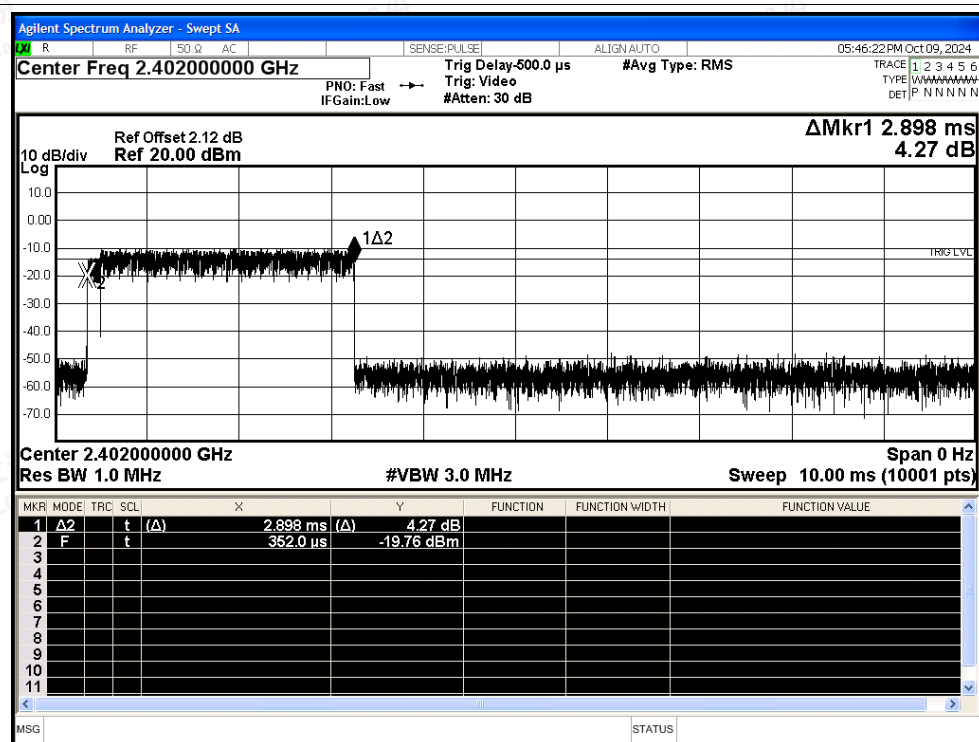
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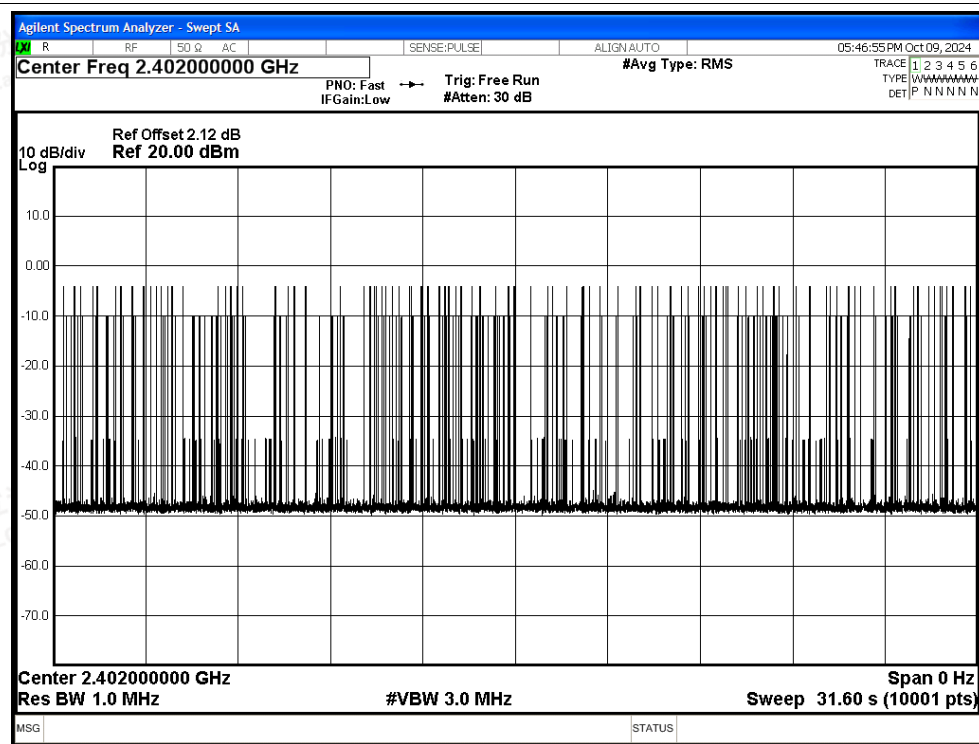
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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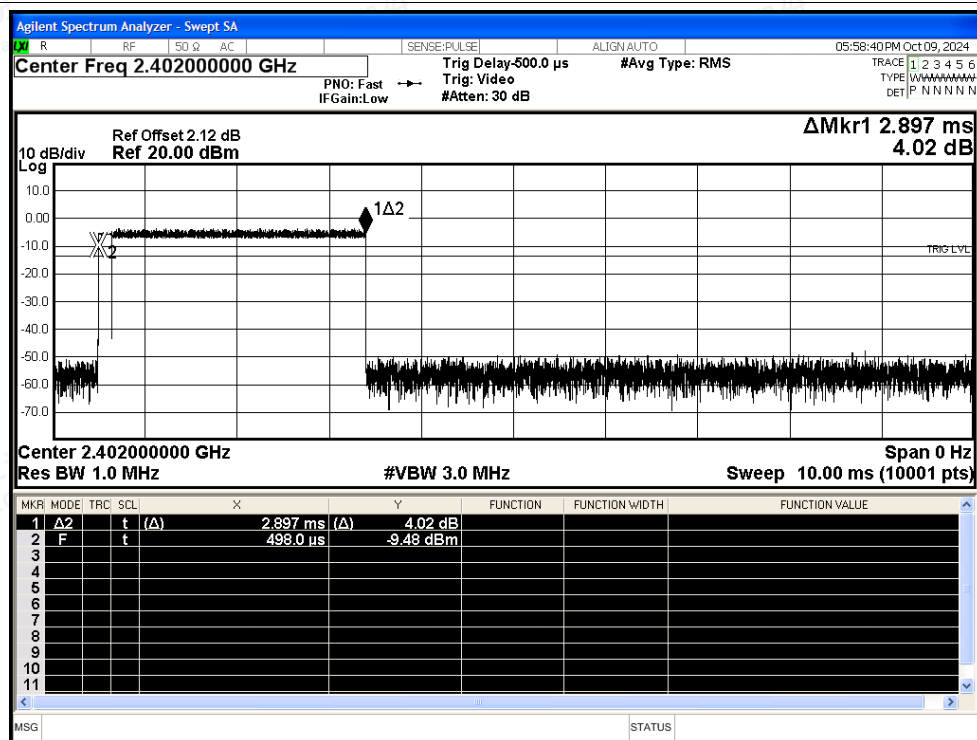
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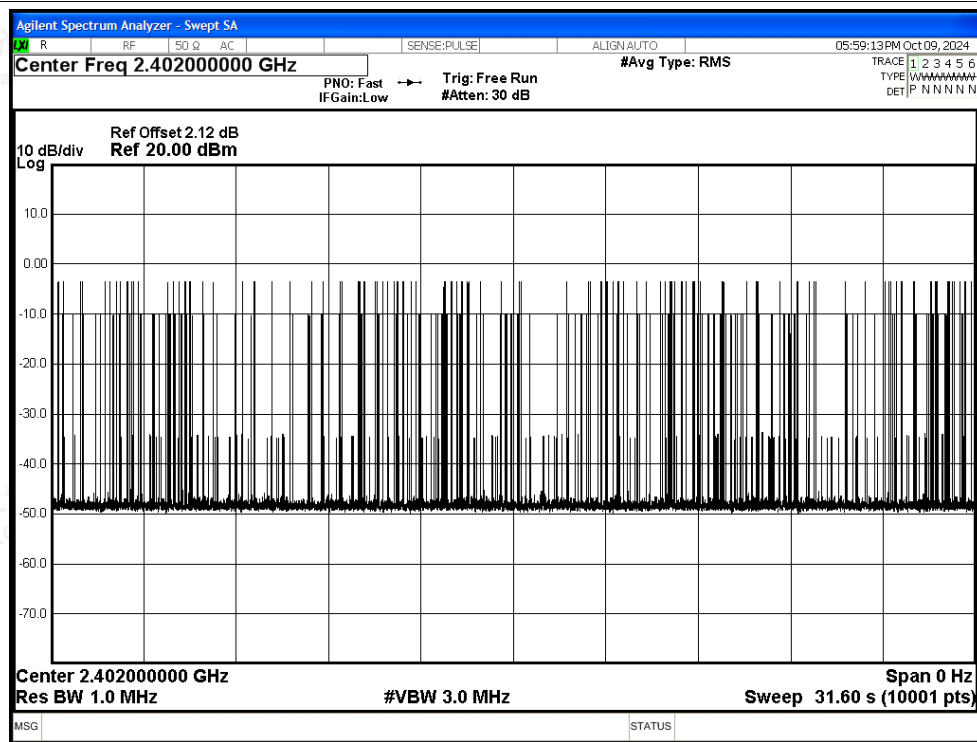
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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



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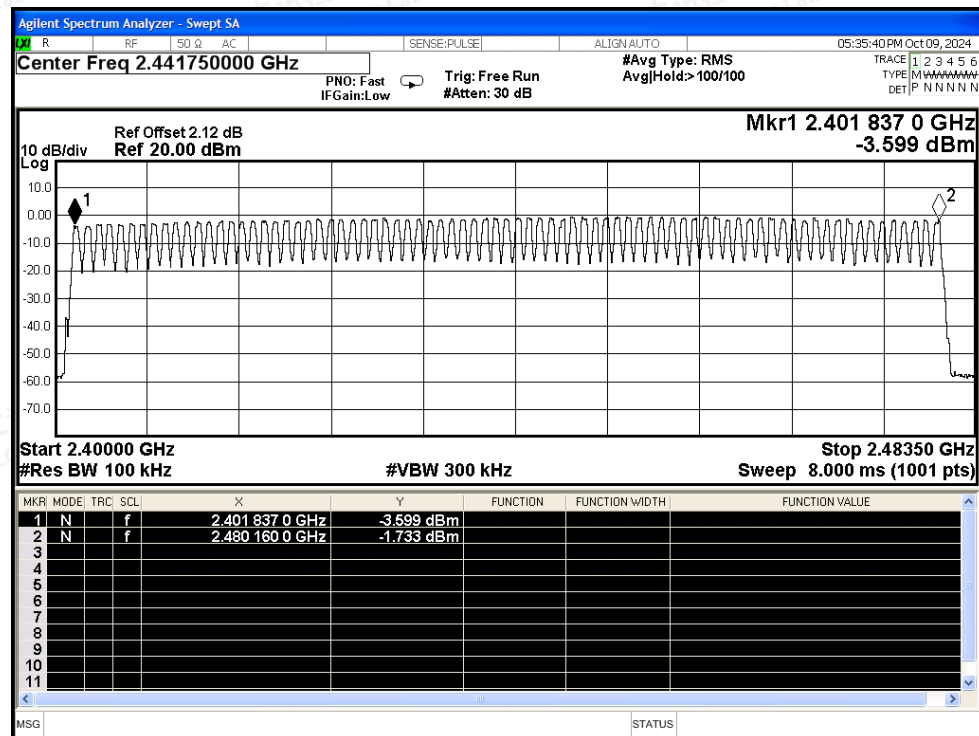
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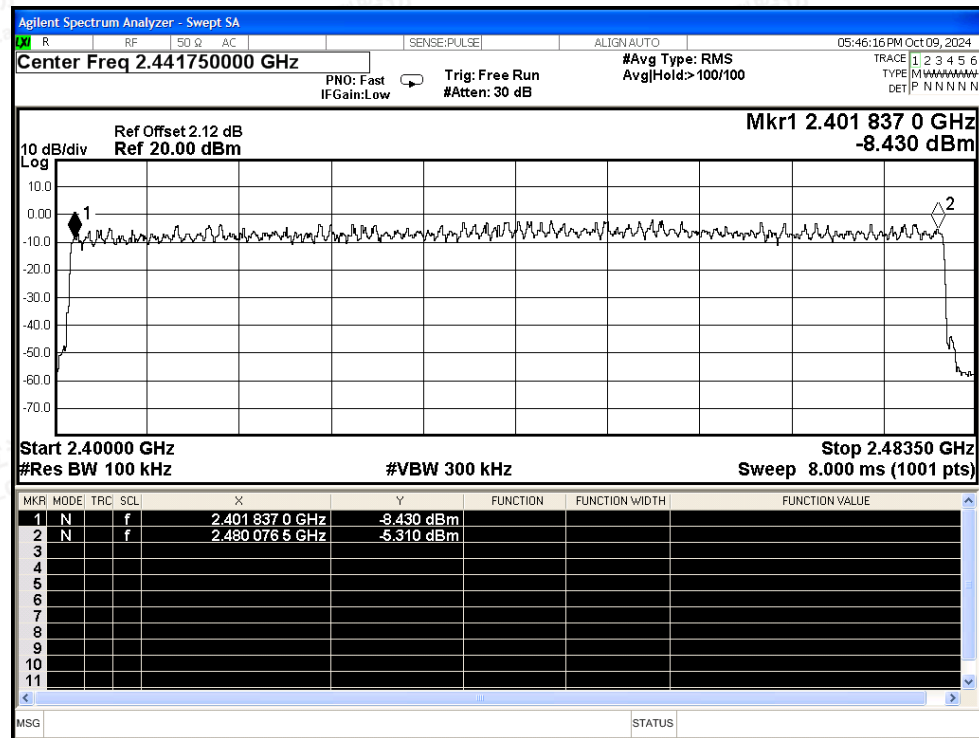


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

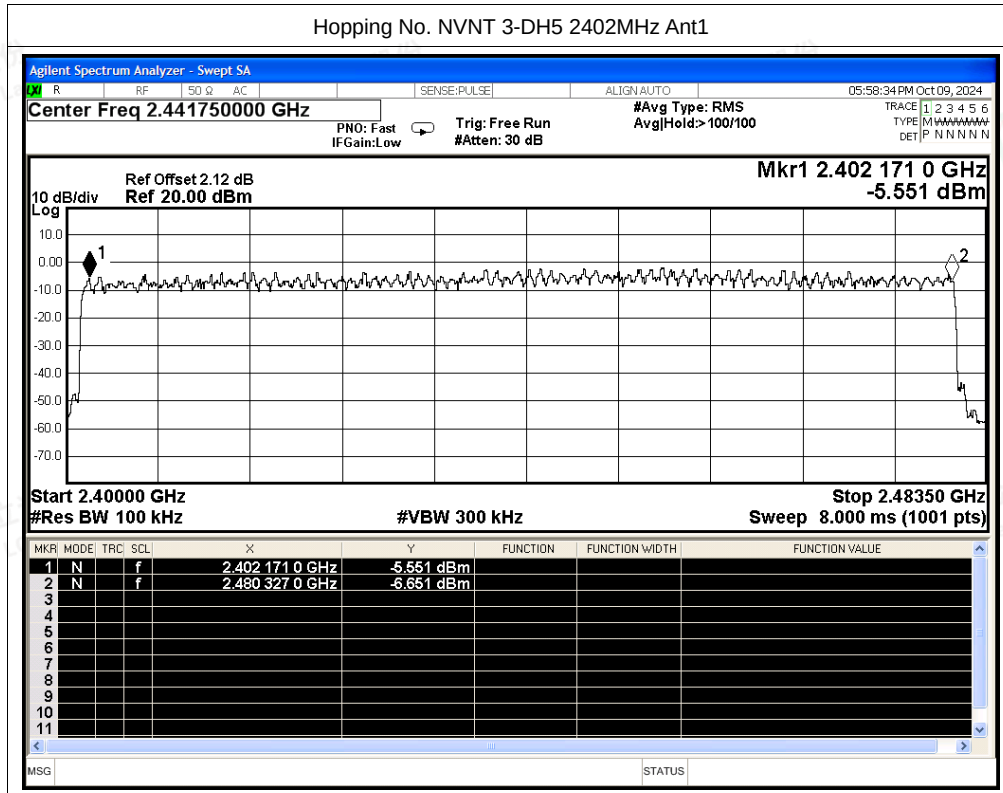


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.94	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.01	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.45	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.73	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.76	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.55	-20	Pass



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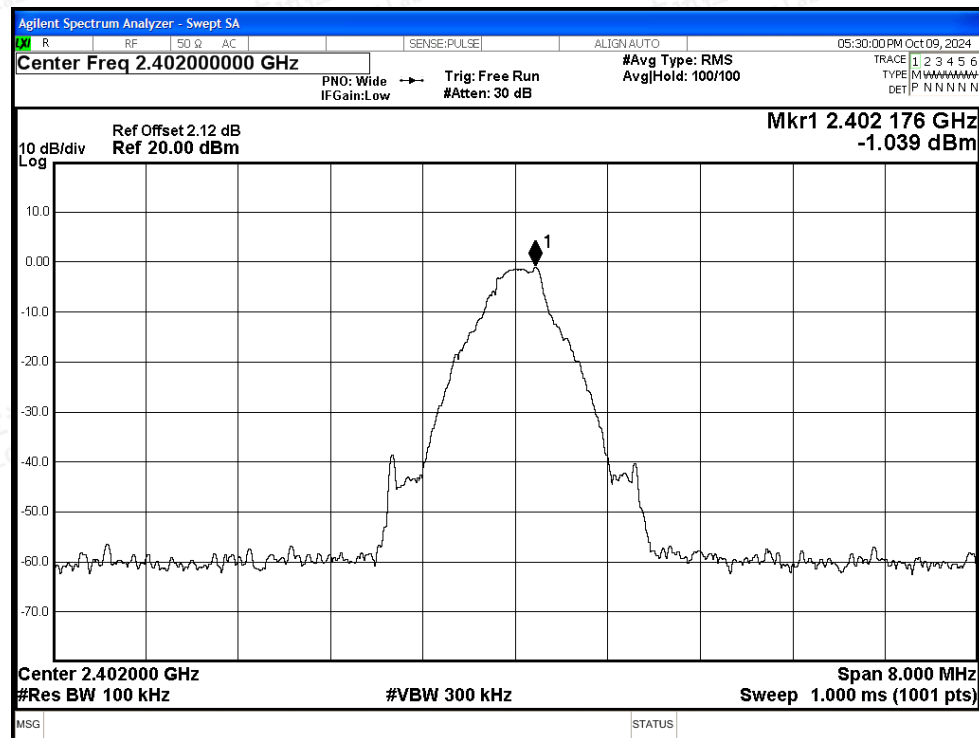
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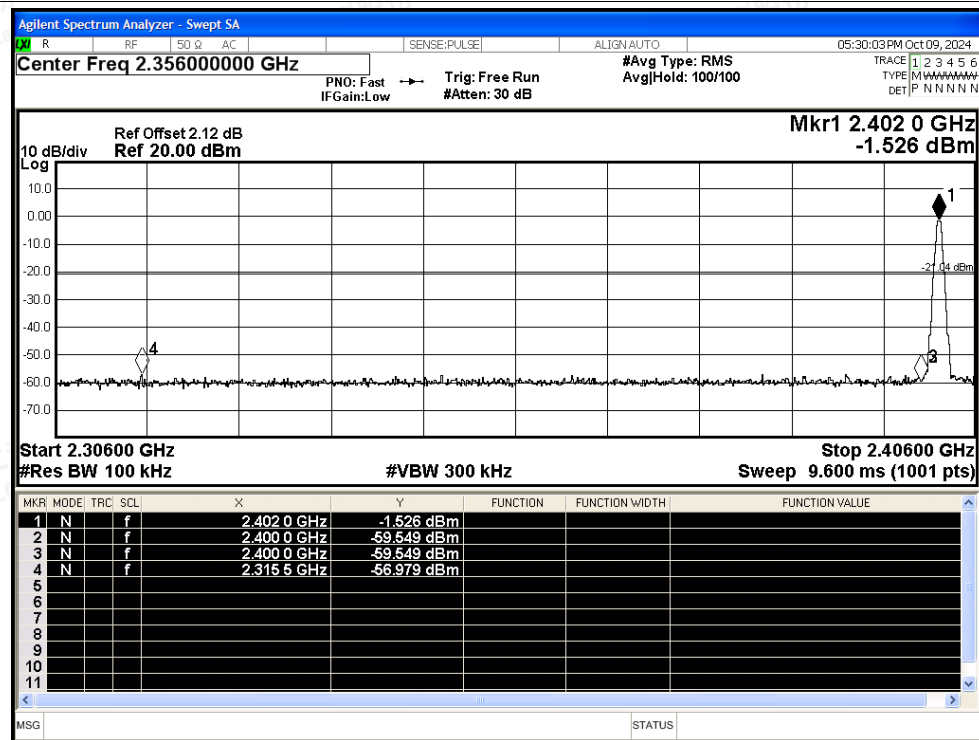


Test Graphs

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



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



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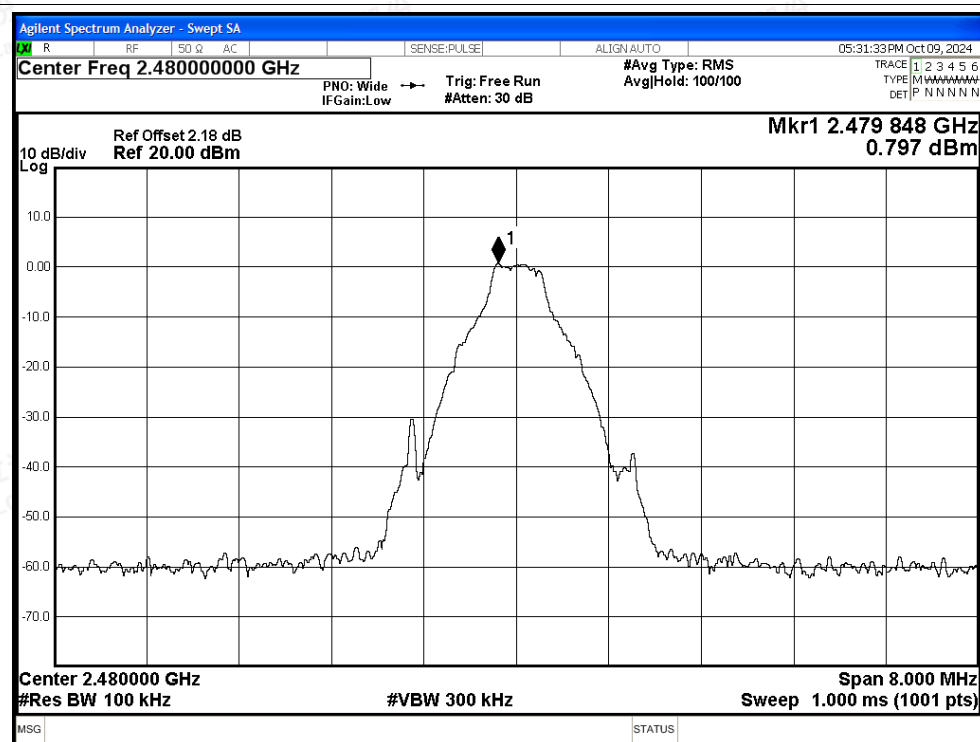
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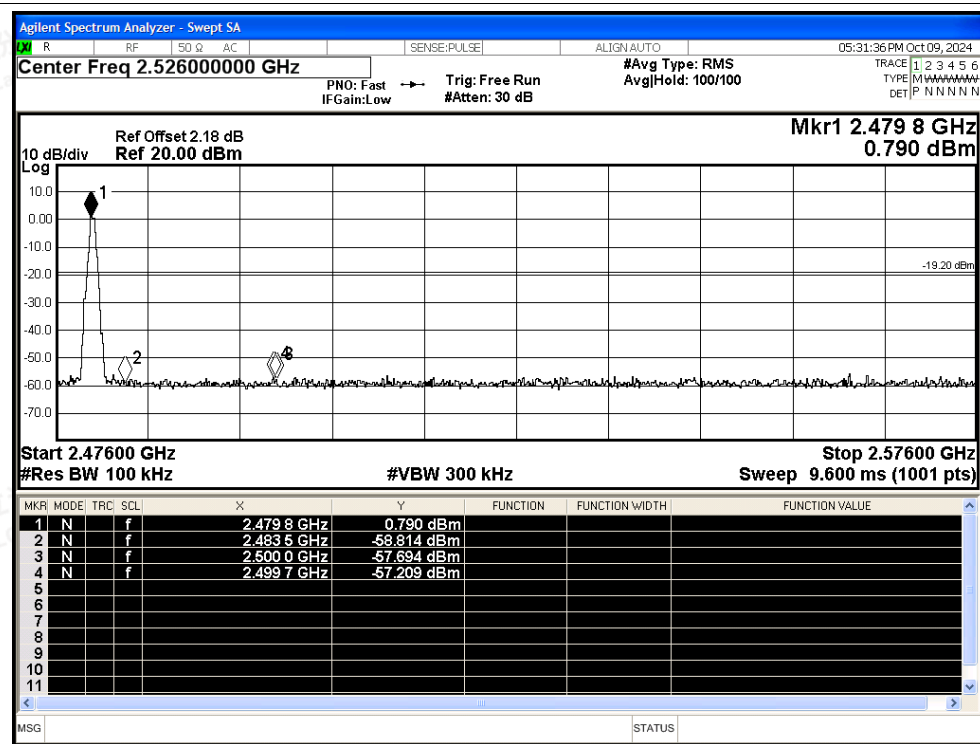
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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

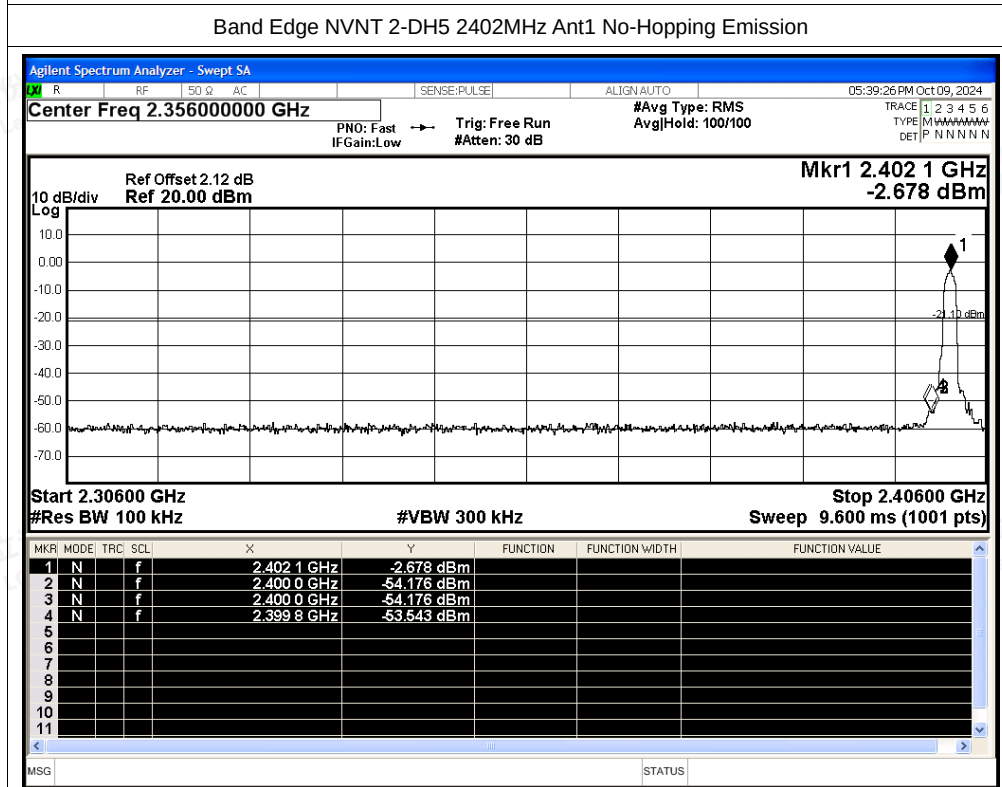
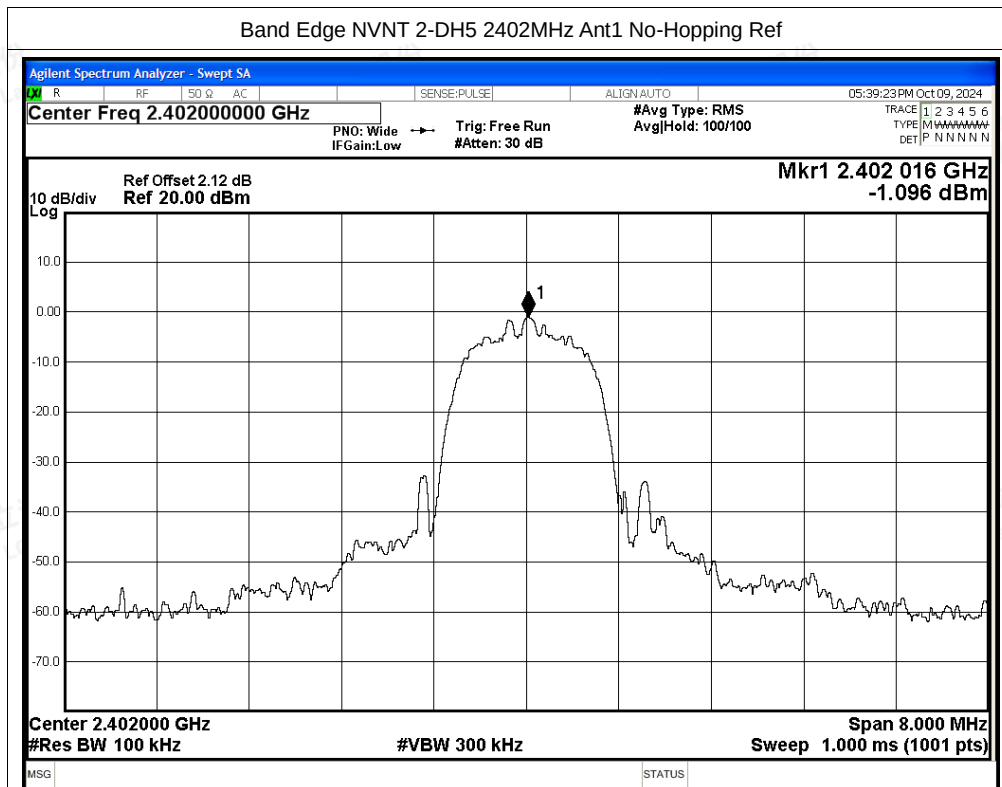


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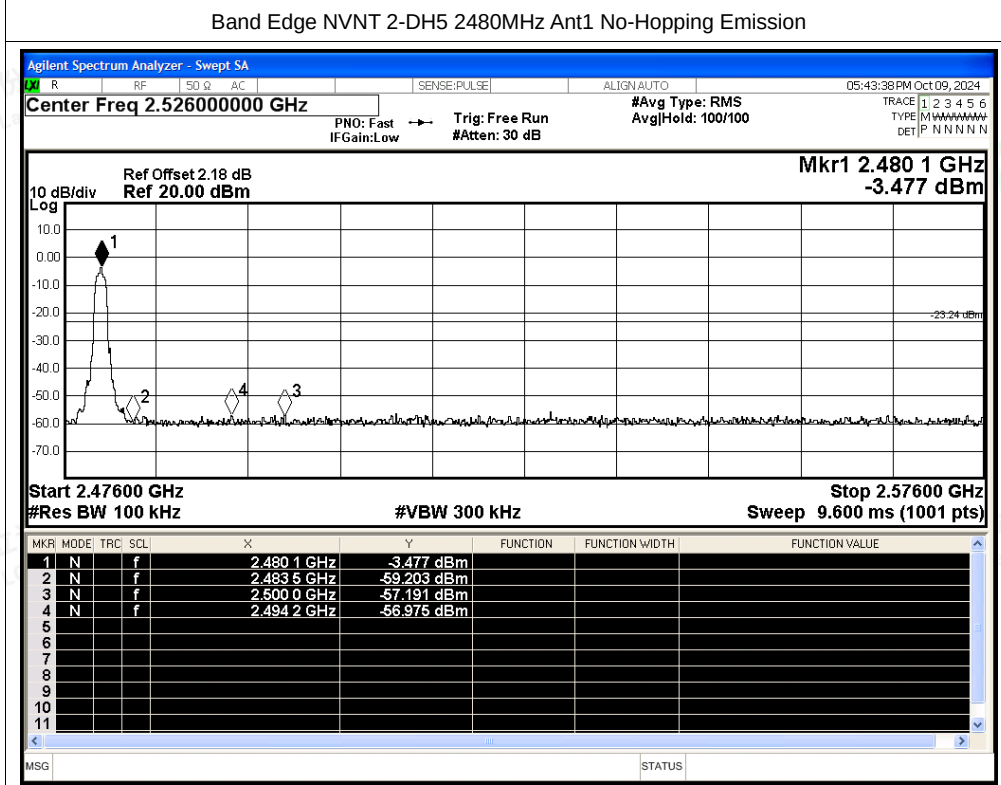
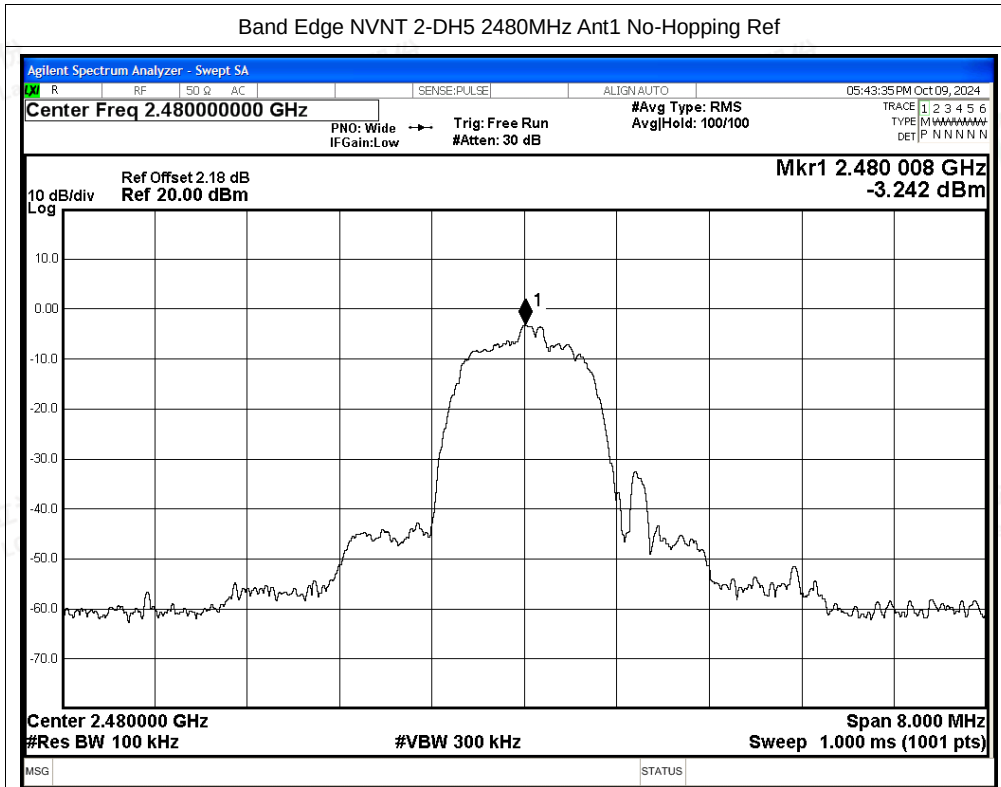


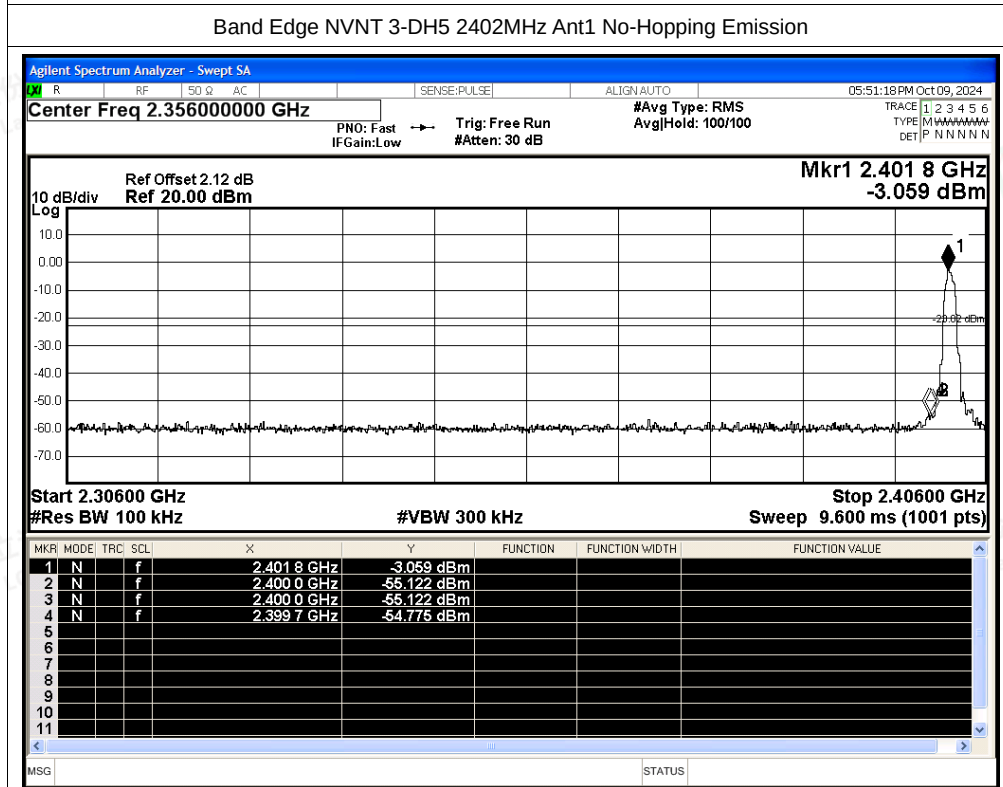
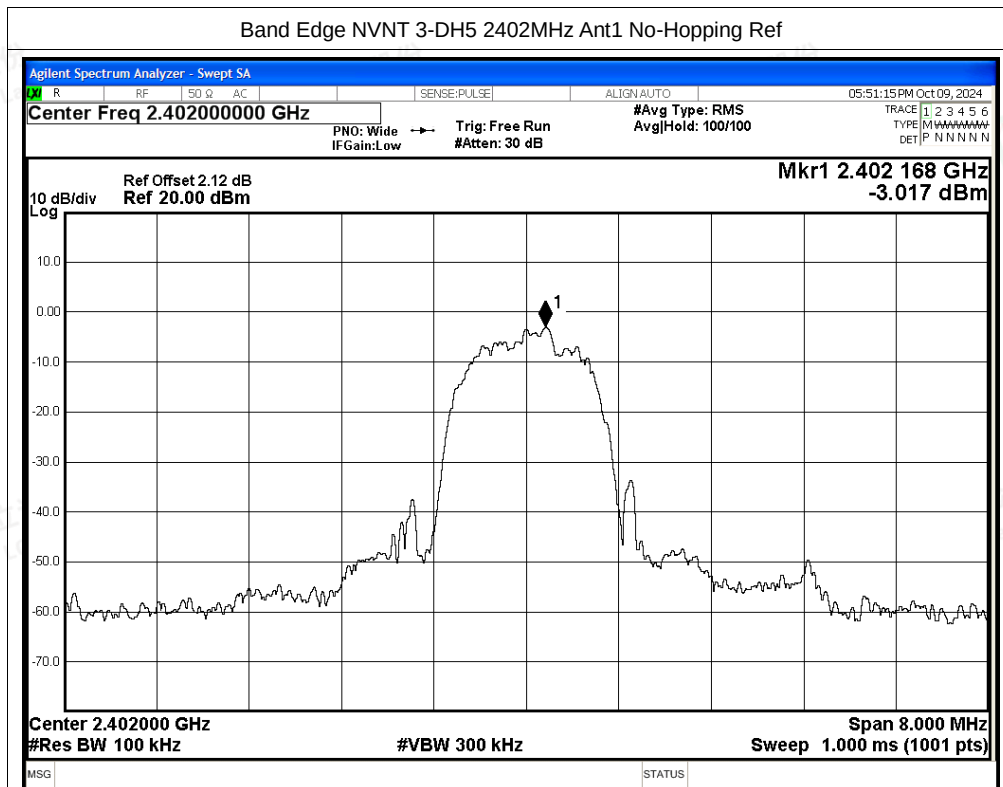
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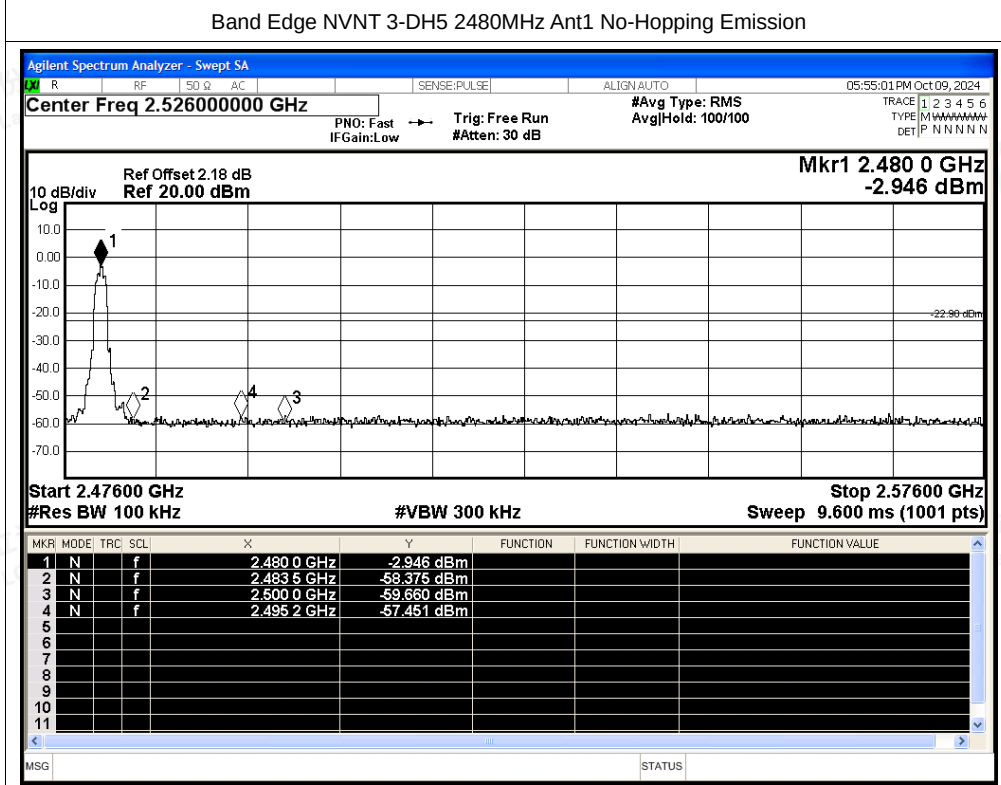
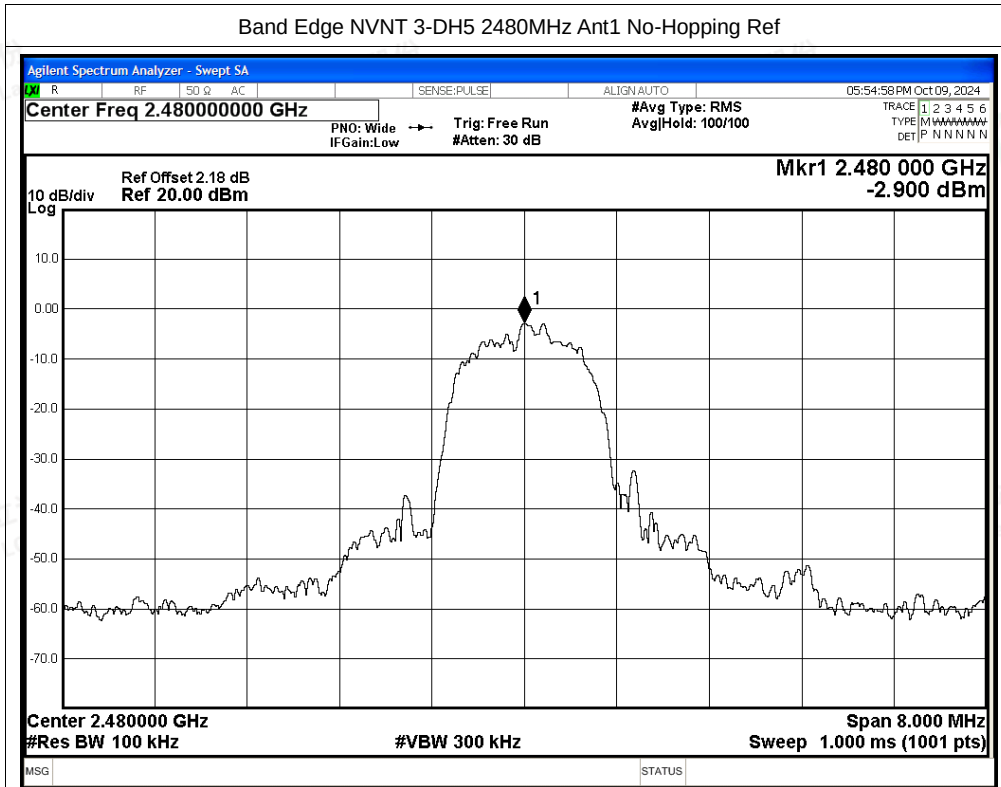


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(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-51.72	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.91	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-49.37	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.08	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-50.86	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-52.13	-20	Pass



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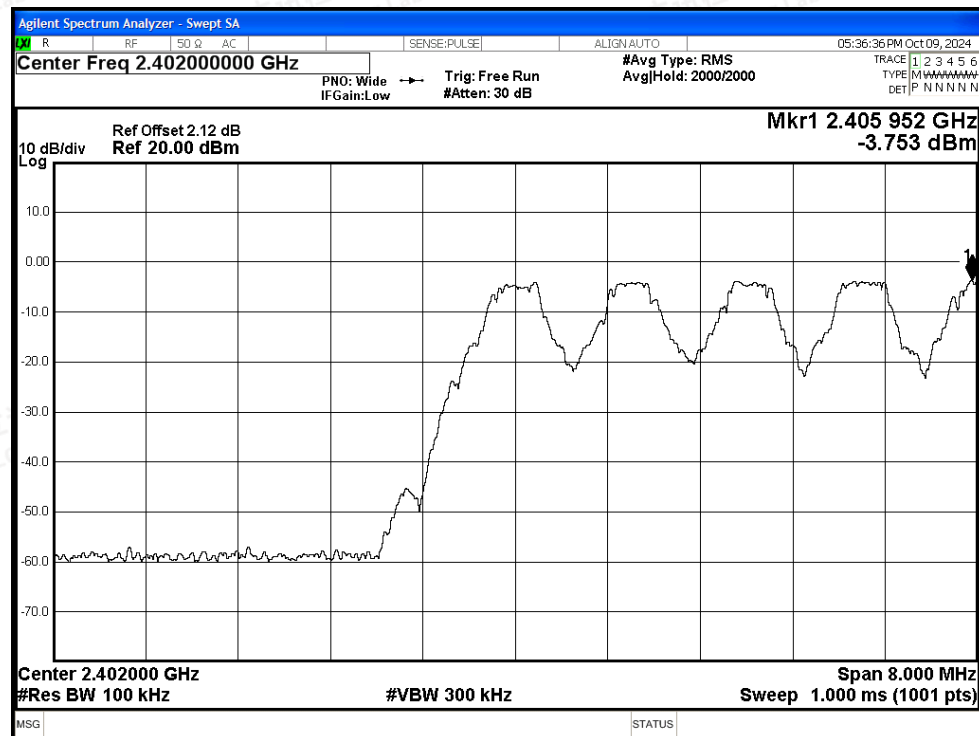
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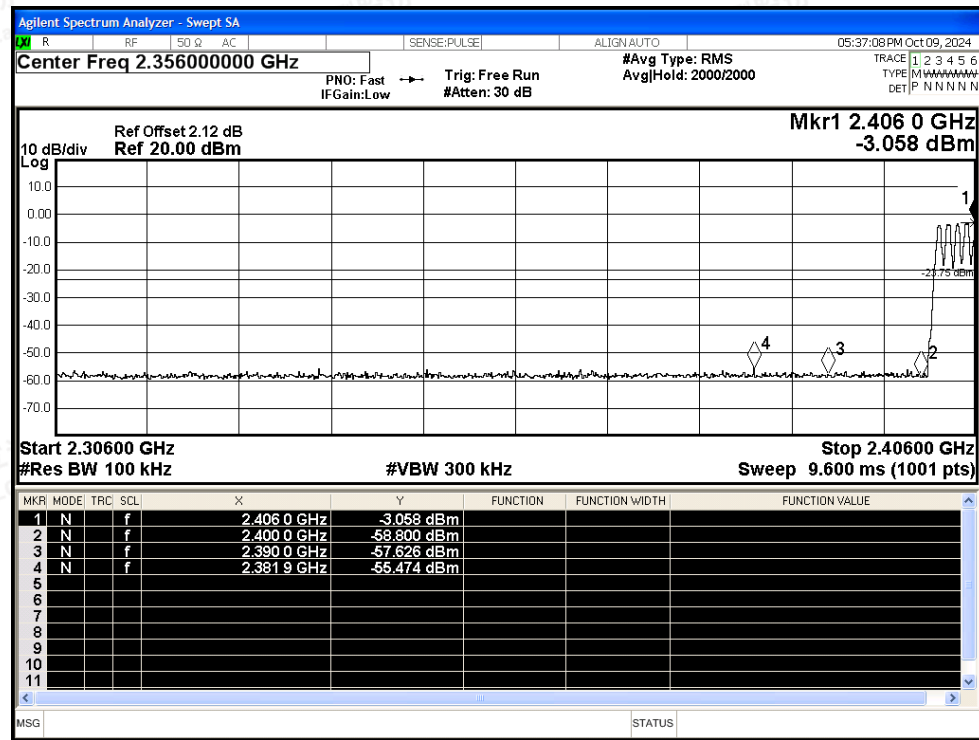


Test Graphs

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



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

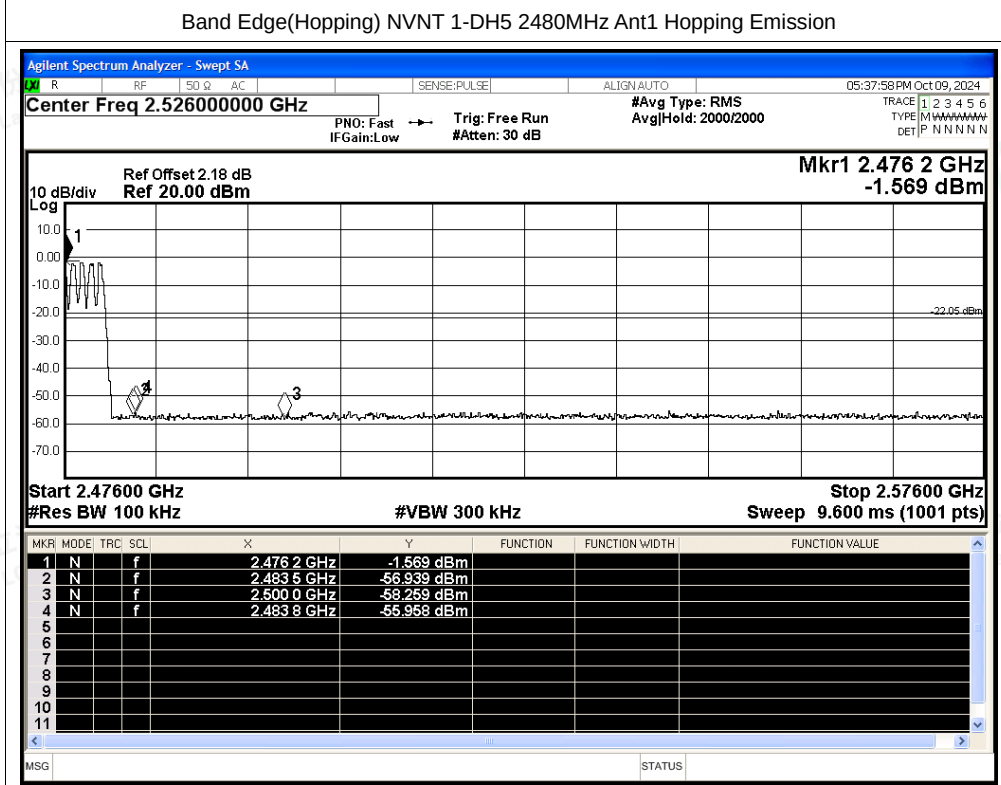
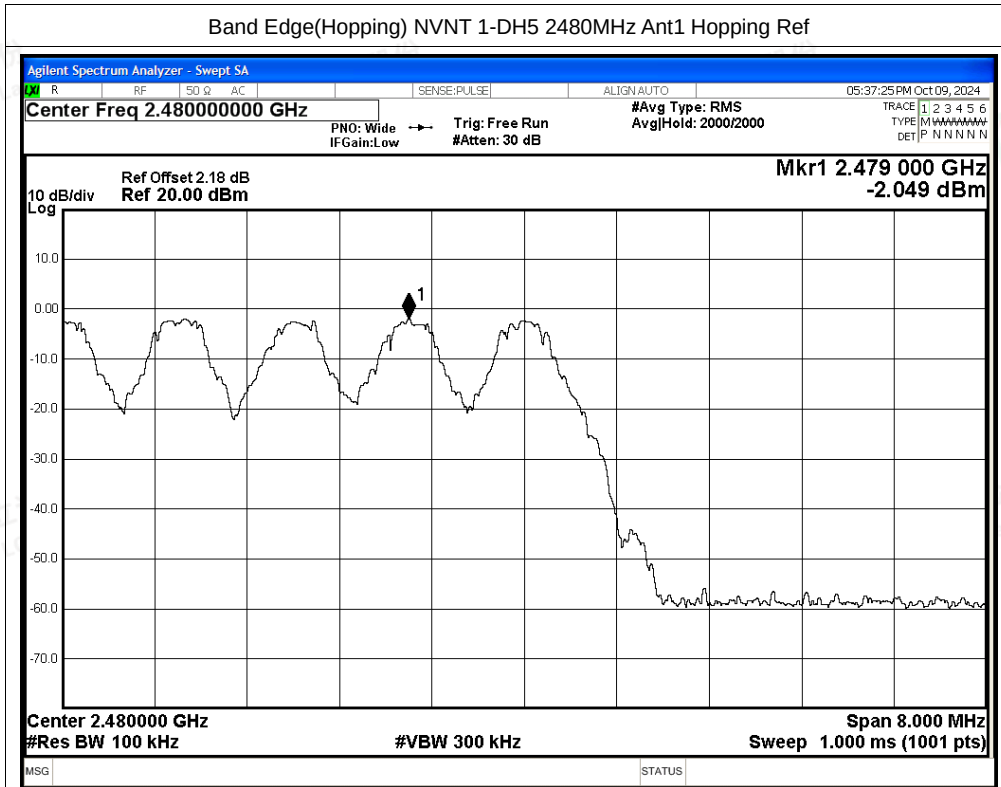


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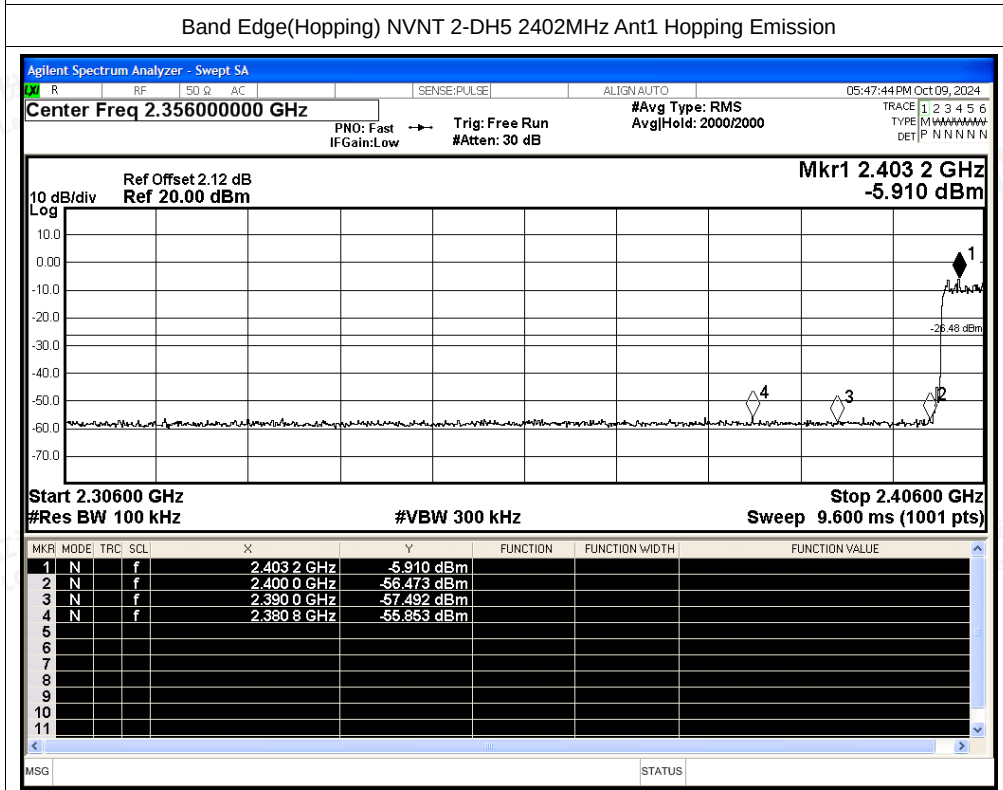
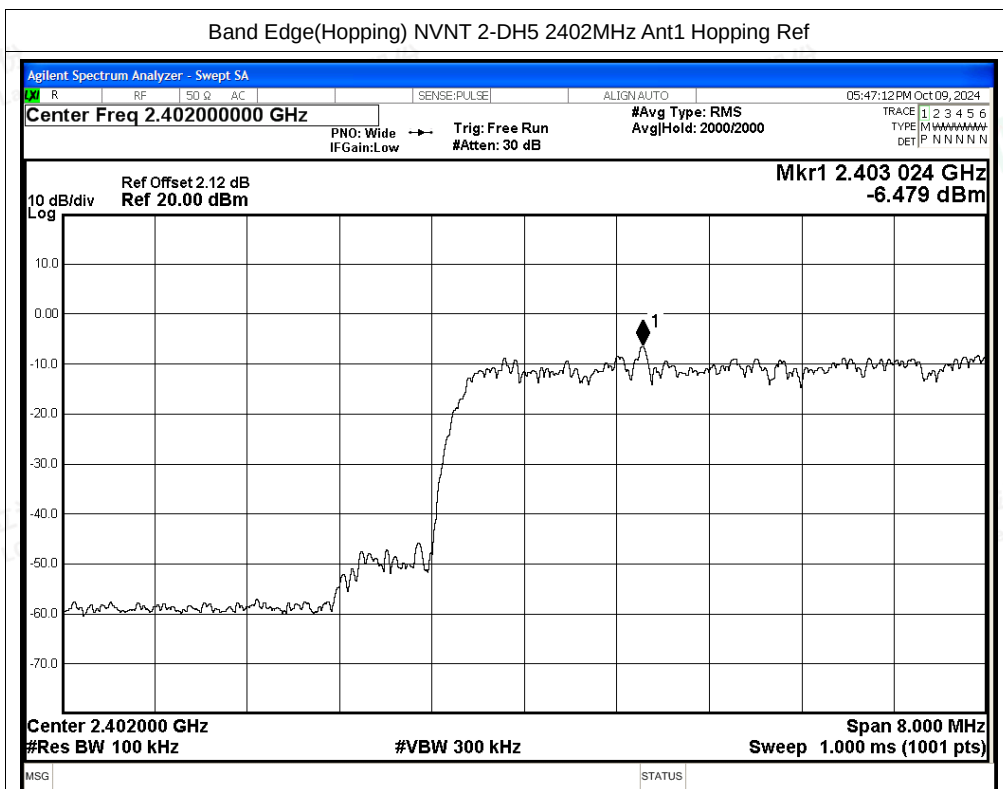


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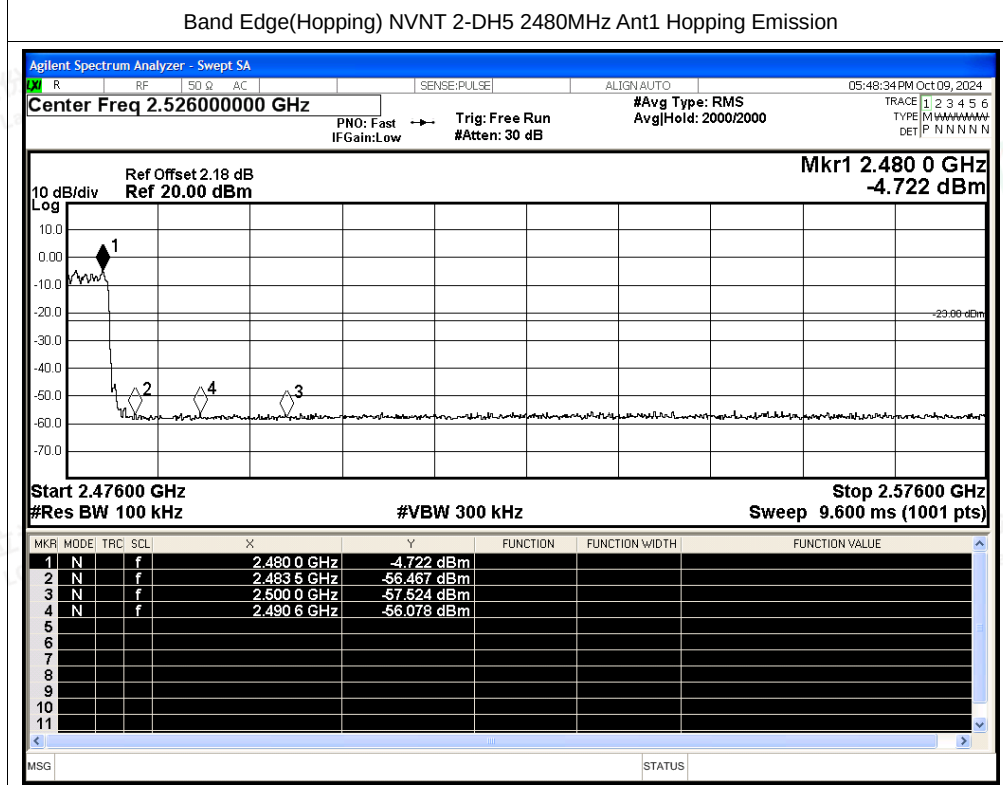
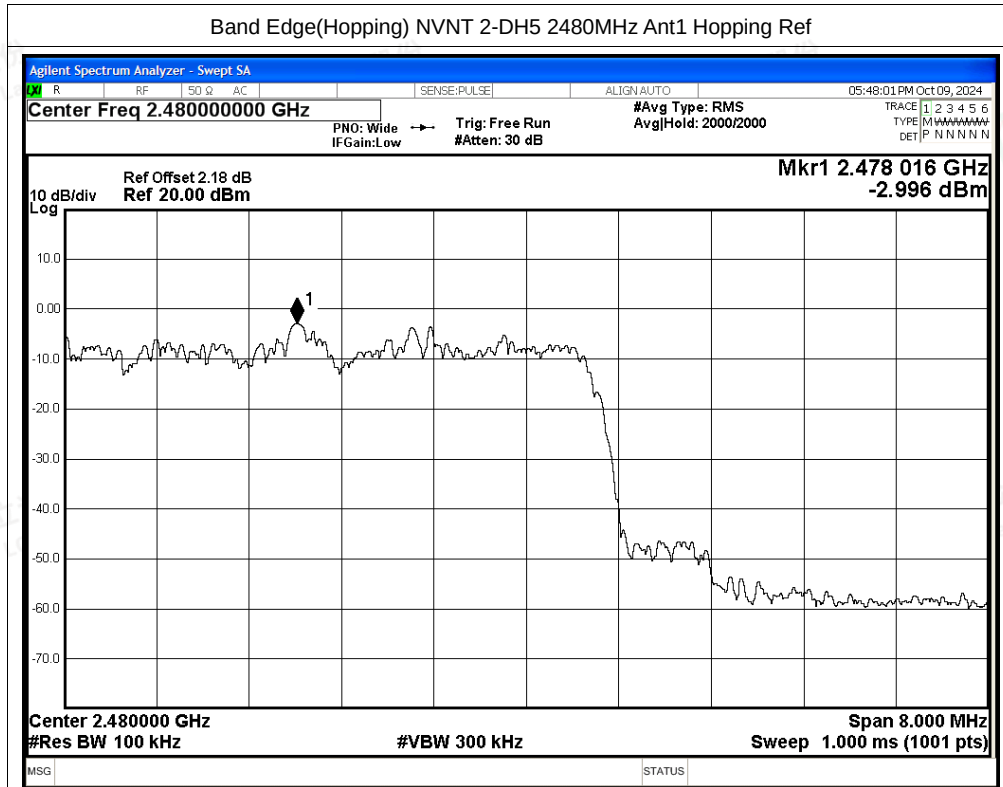


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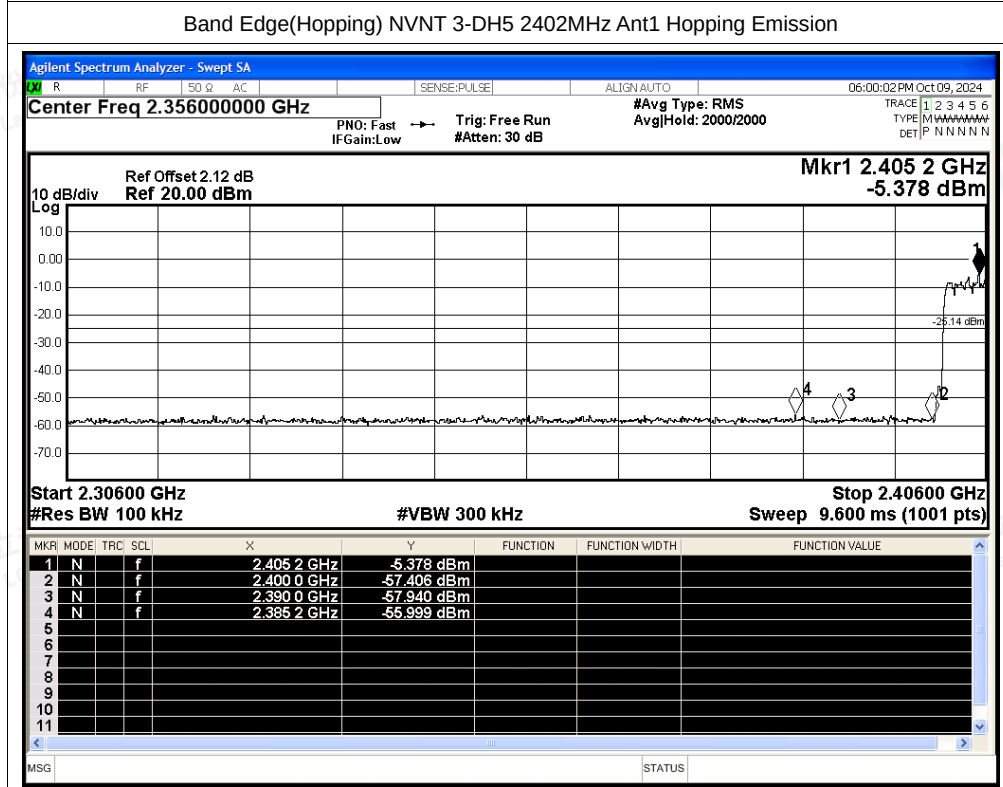
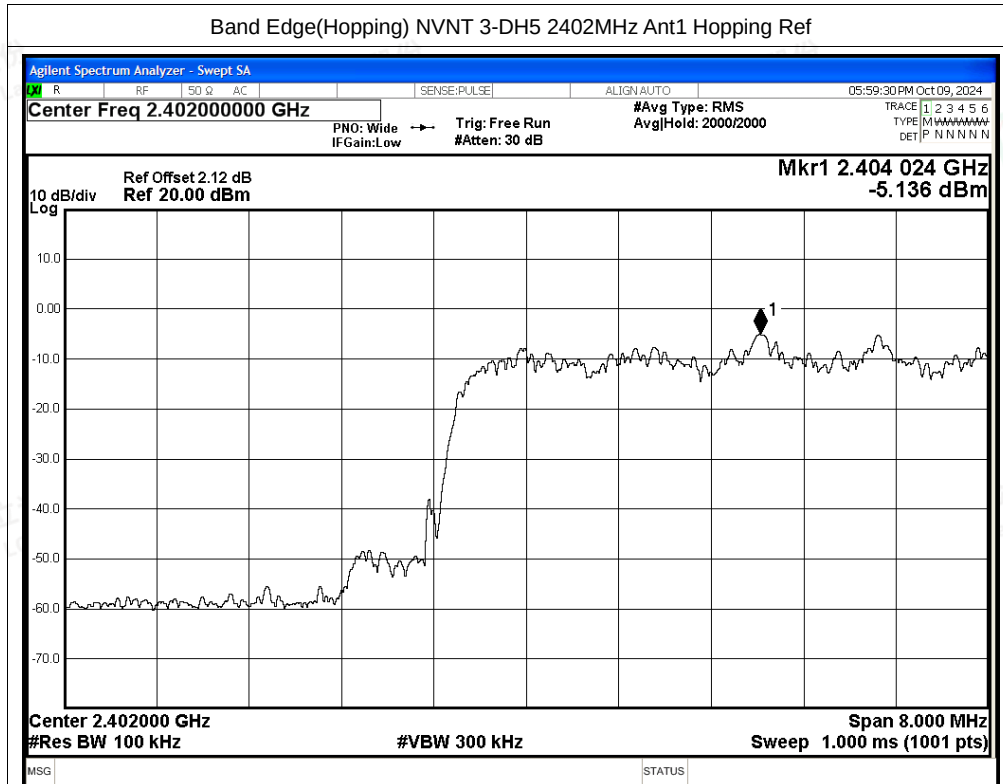


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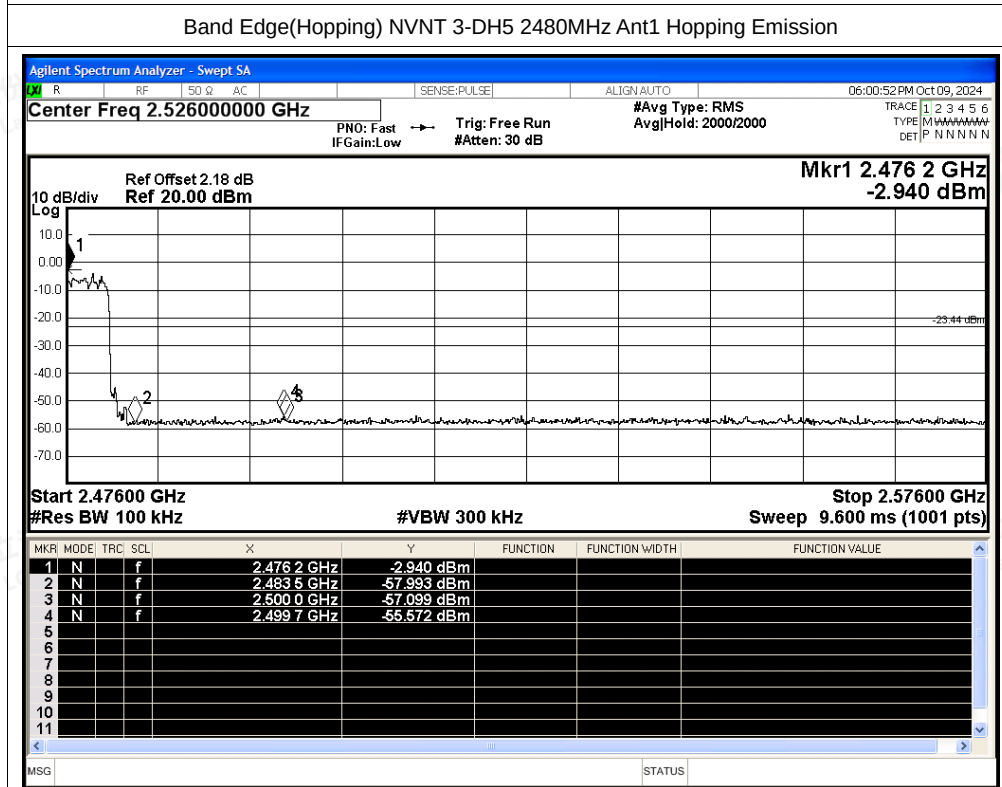
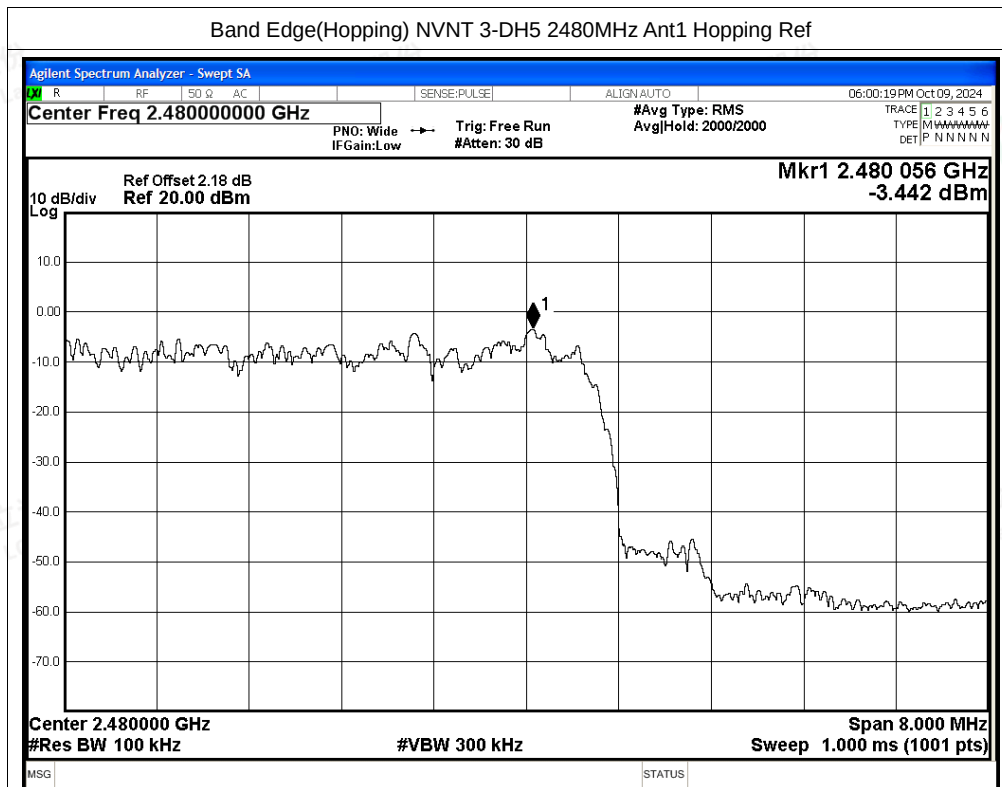


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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.35	-20	Pass
NVNT	1-DH5	2441	Ant1	-53.84	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.22	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.14	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.64	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.62	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.16	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.32	-20	Pass
NVNT	3-DH5	2480	Ant1	-53	-20	Pass



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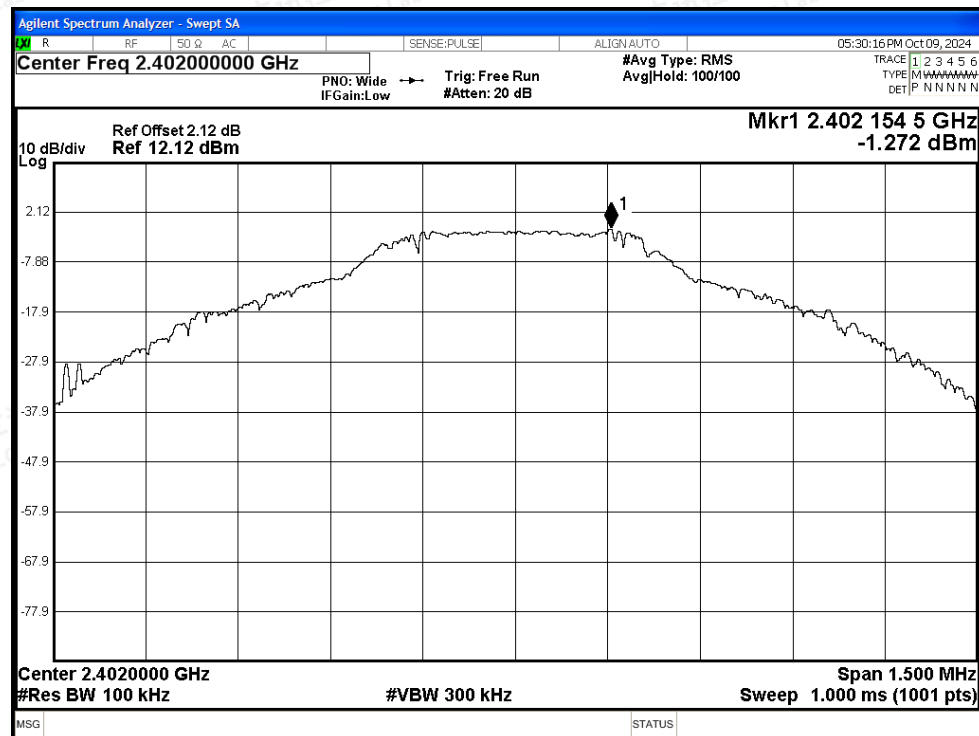
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

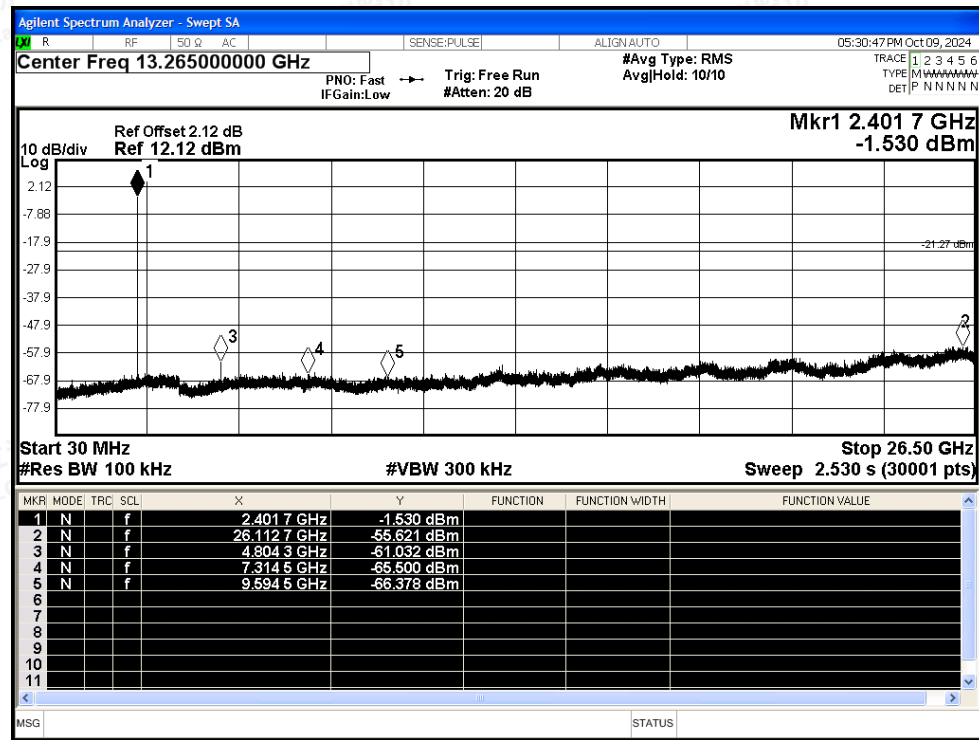


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

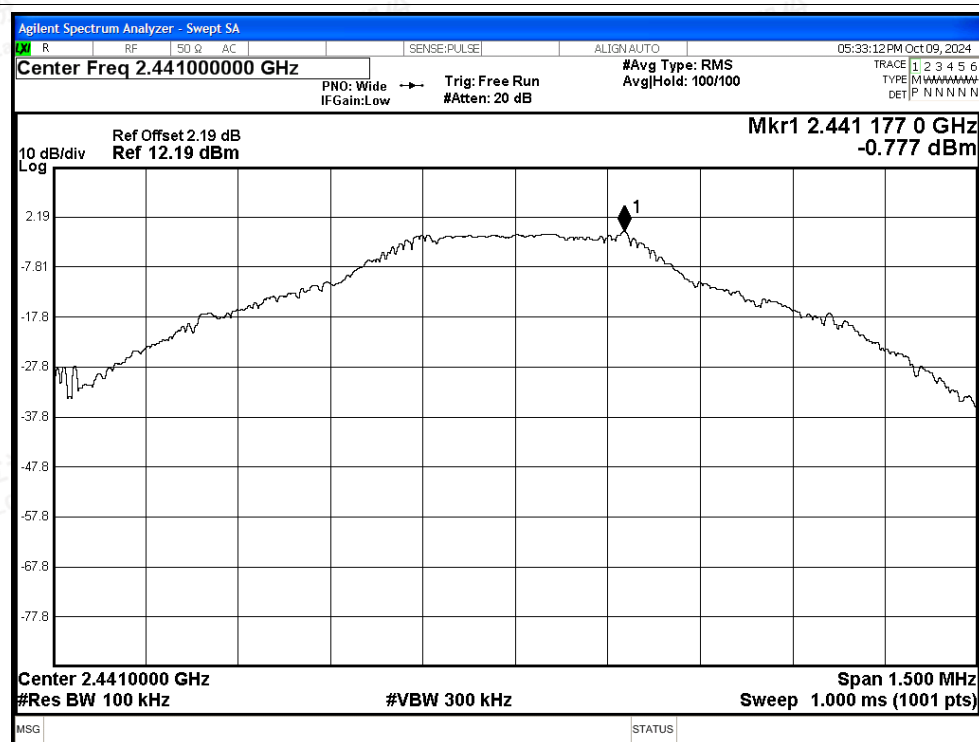
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

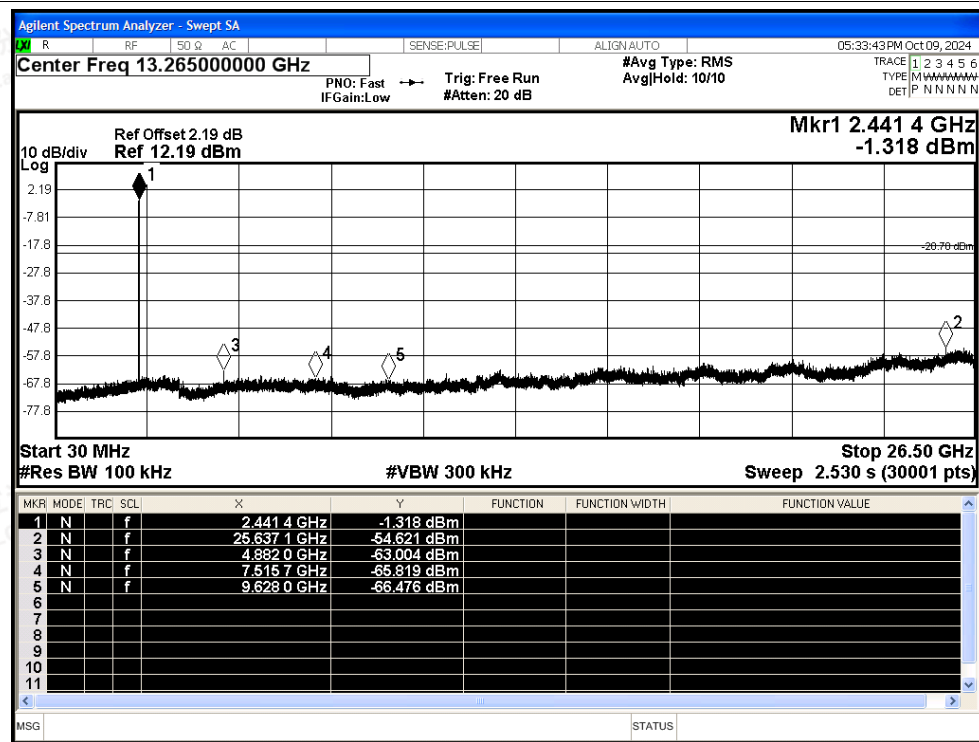
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

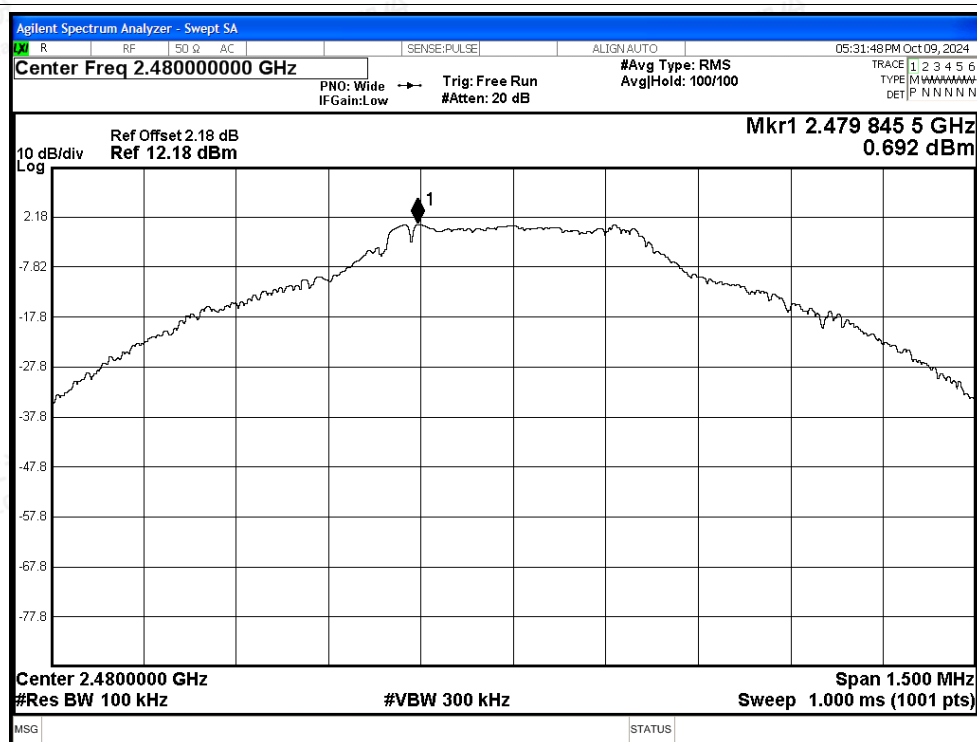
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

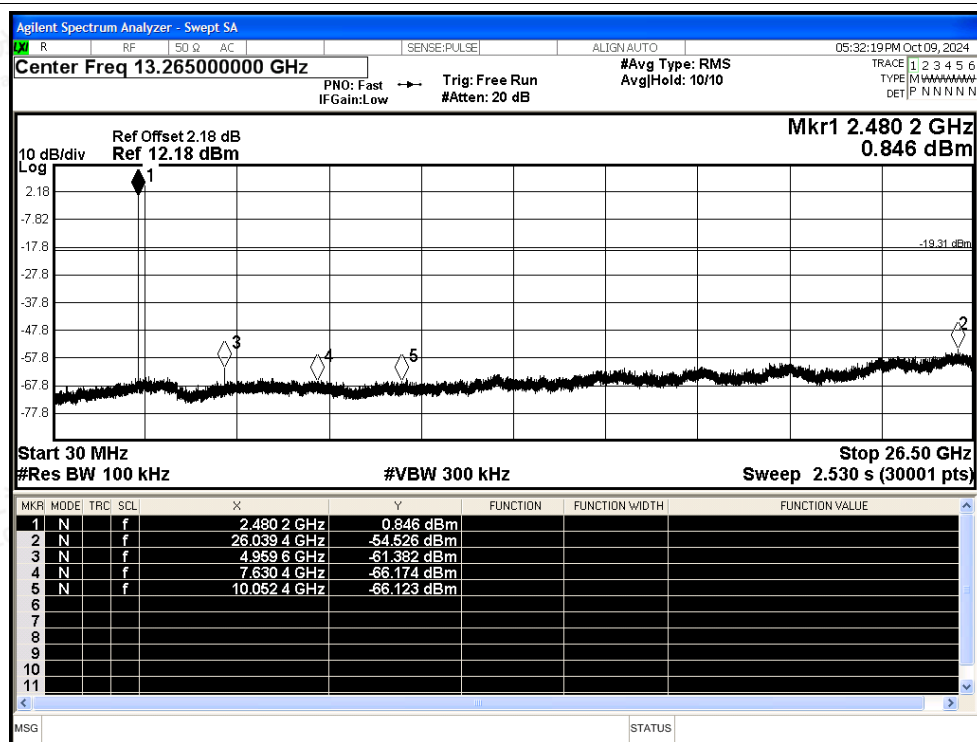
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

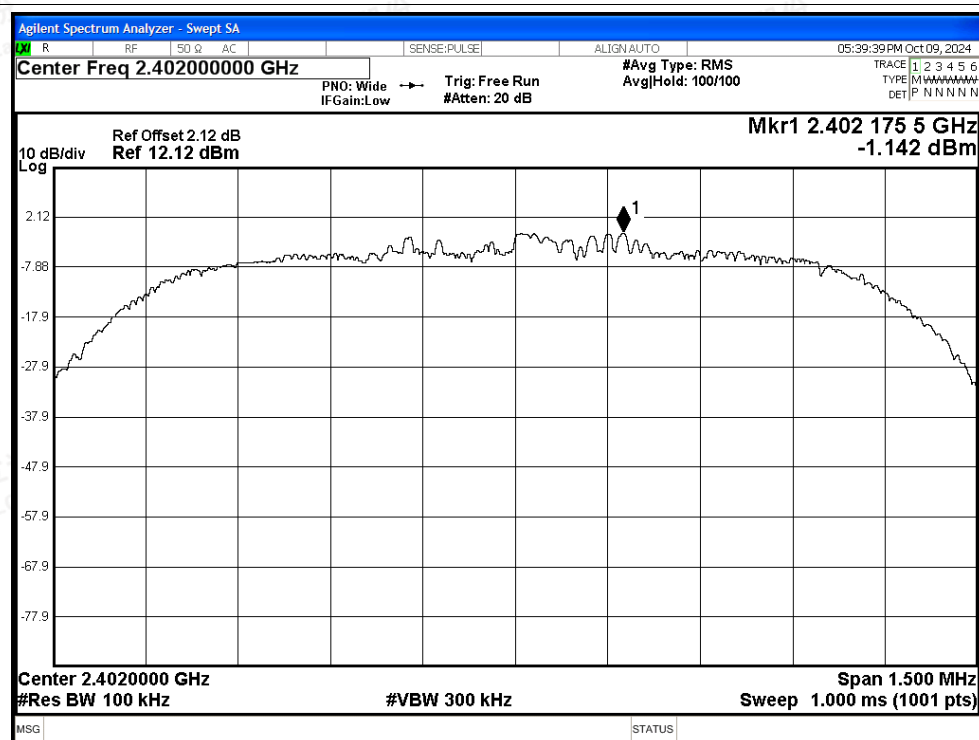
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

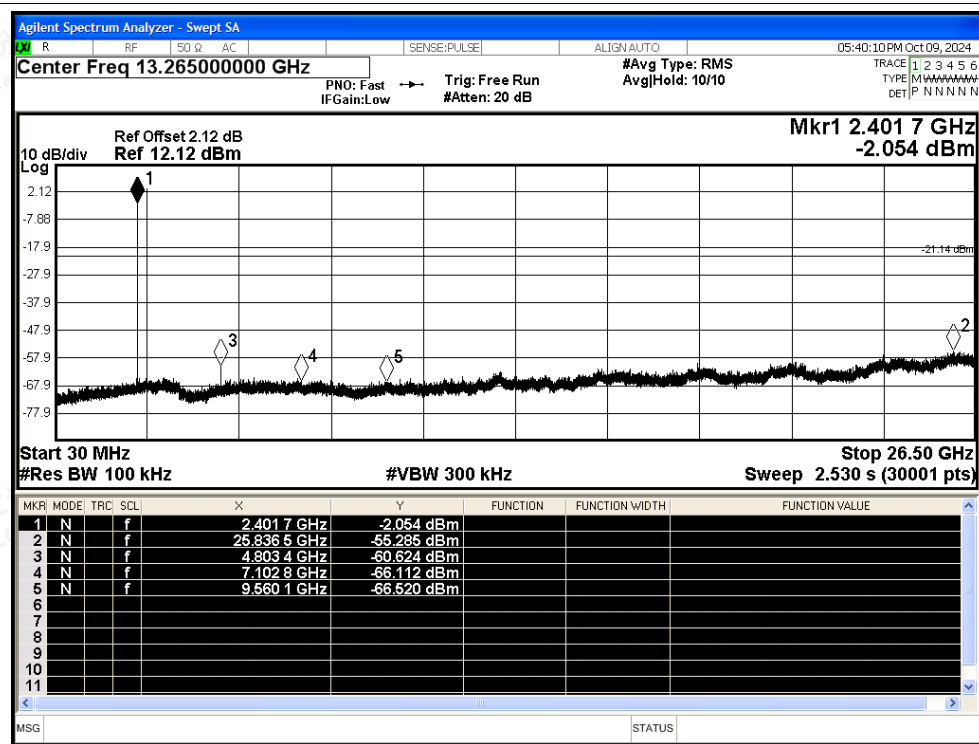
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

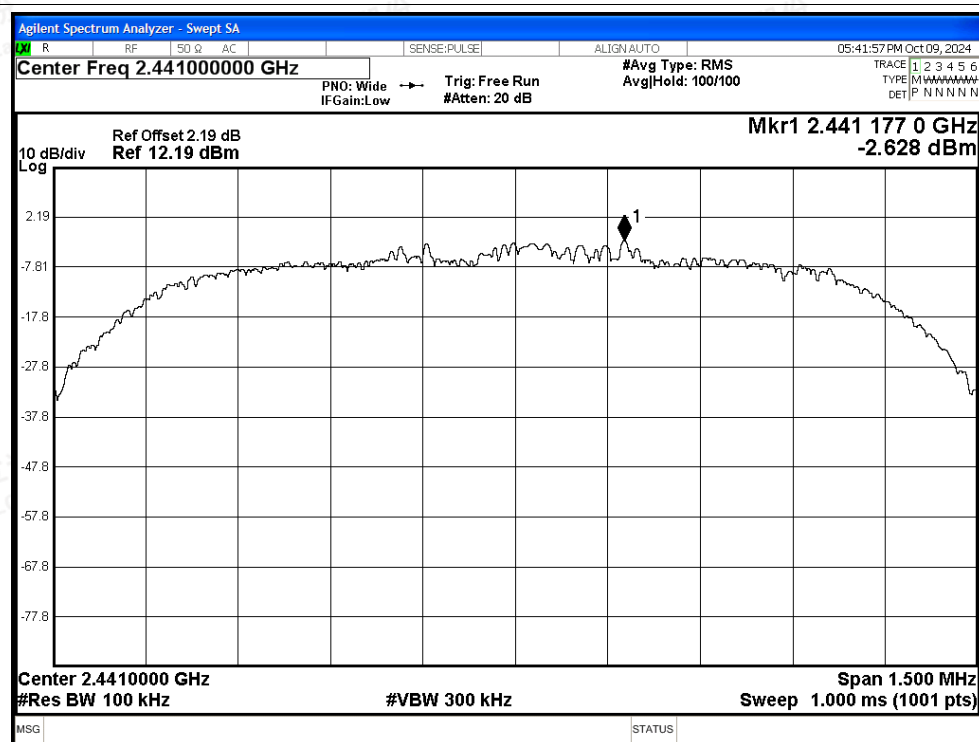
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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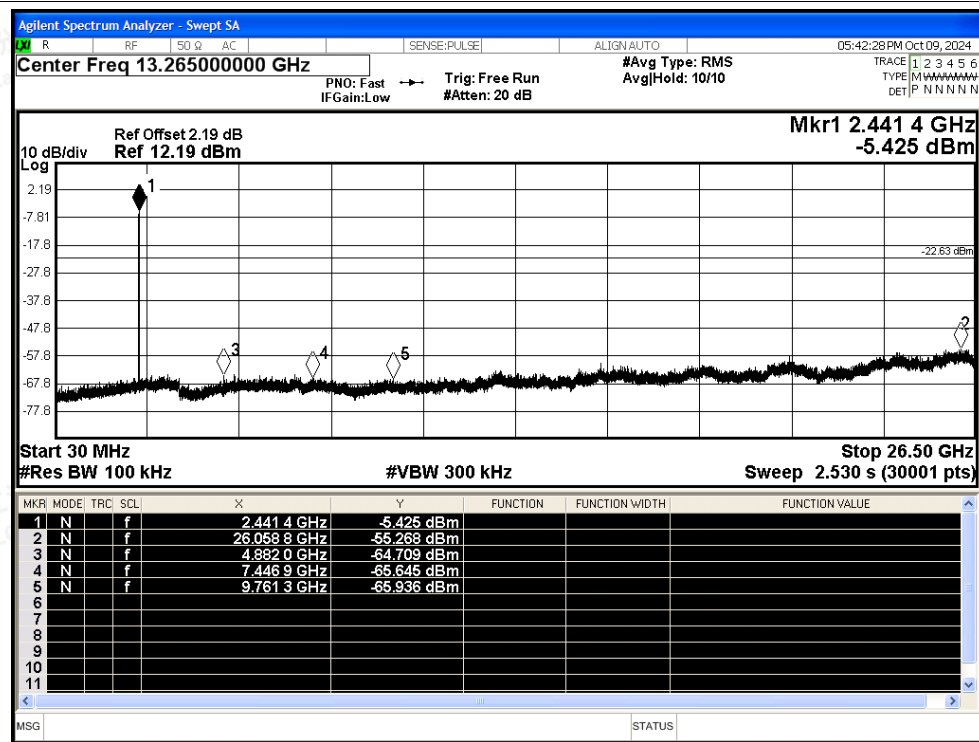
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

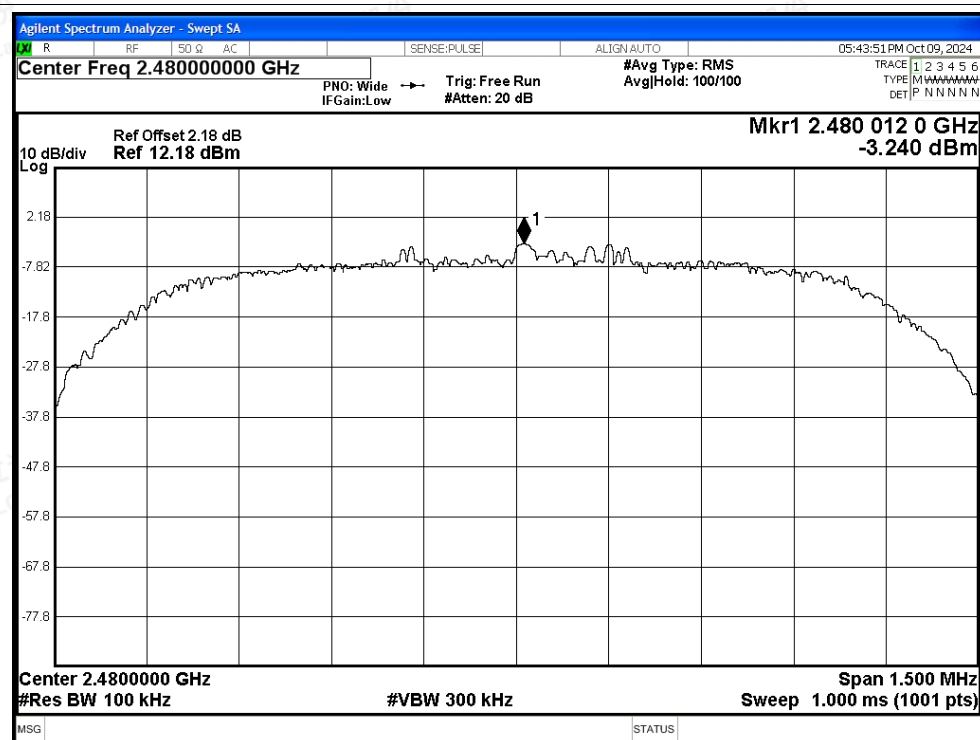
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

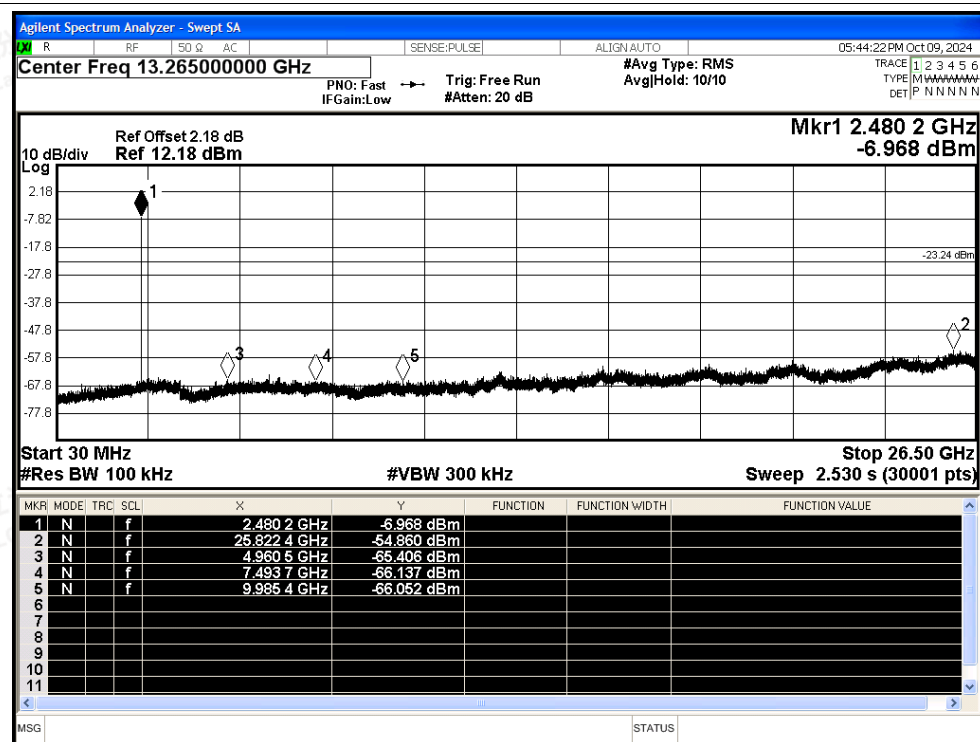
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

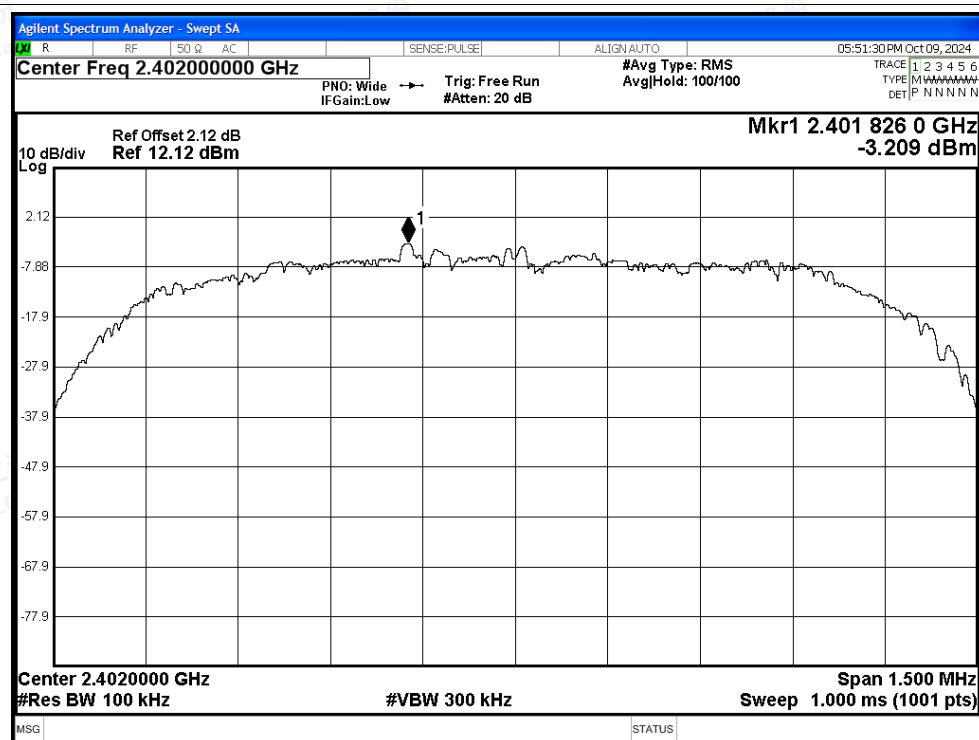
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

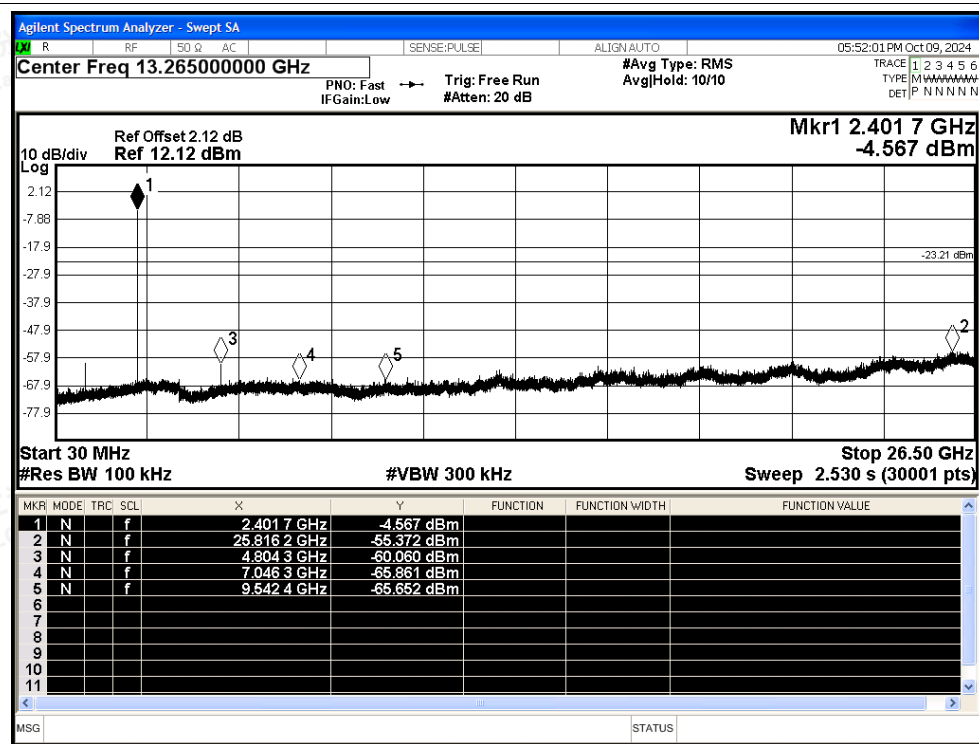
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

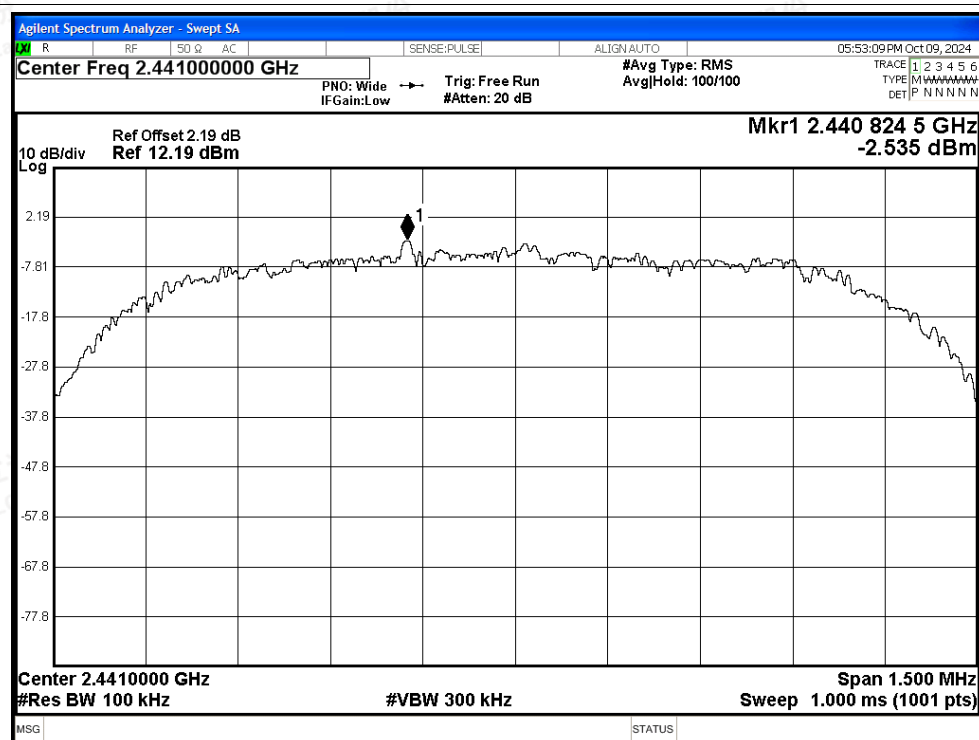
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

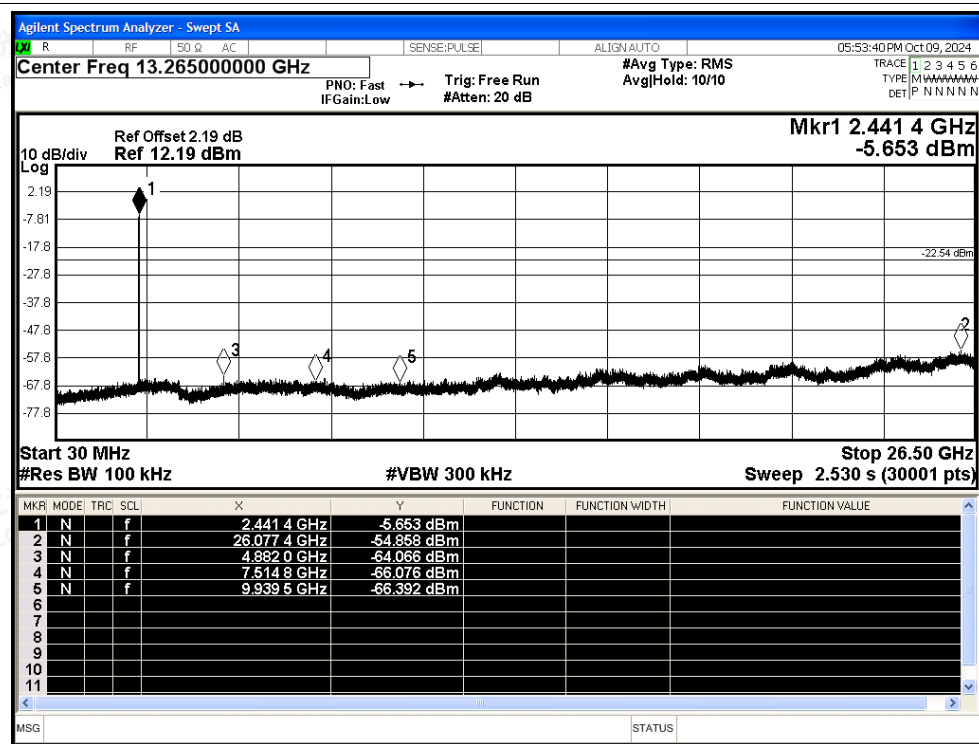
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

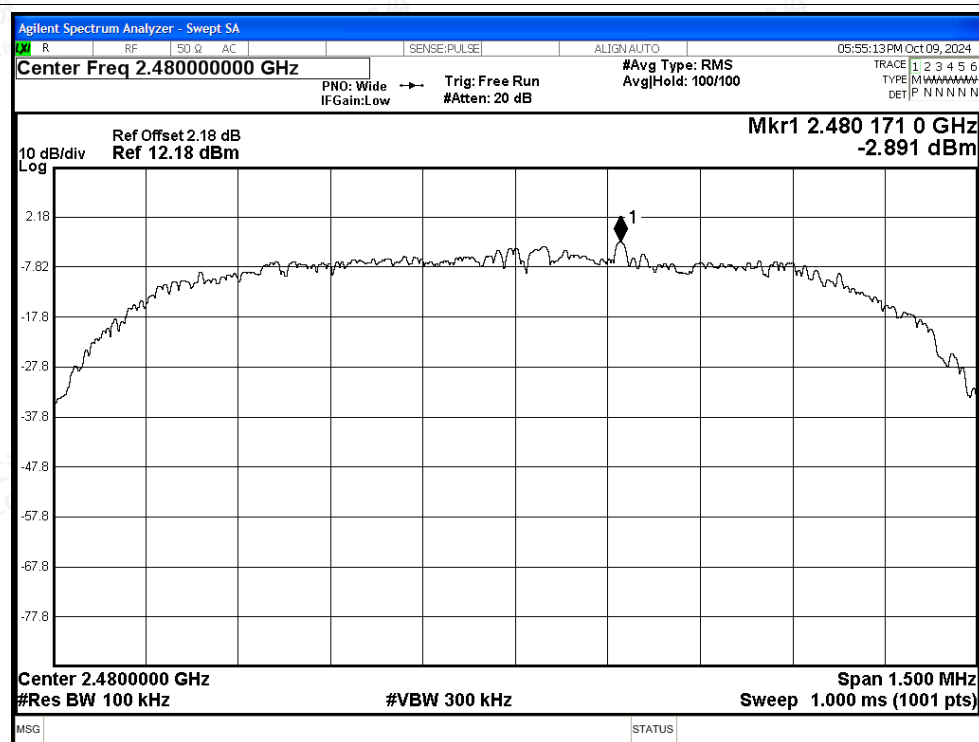
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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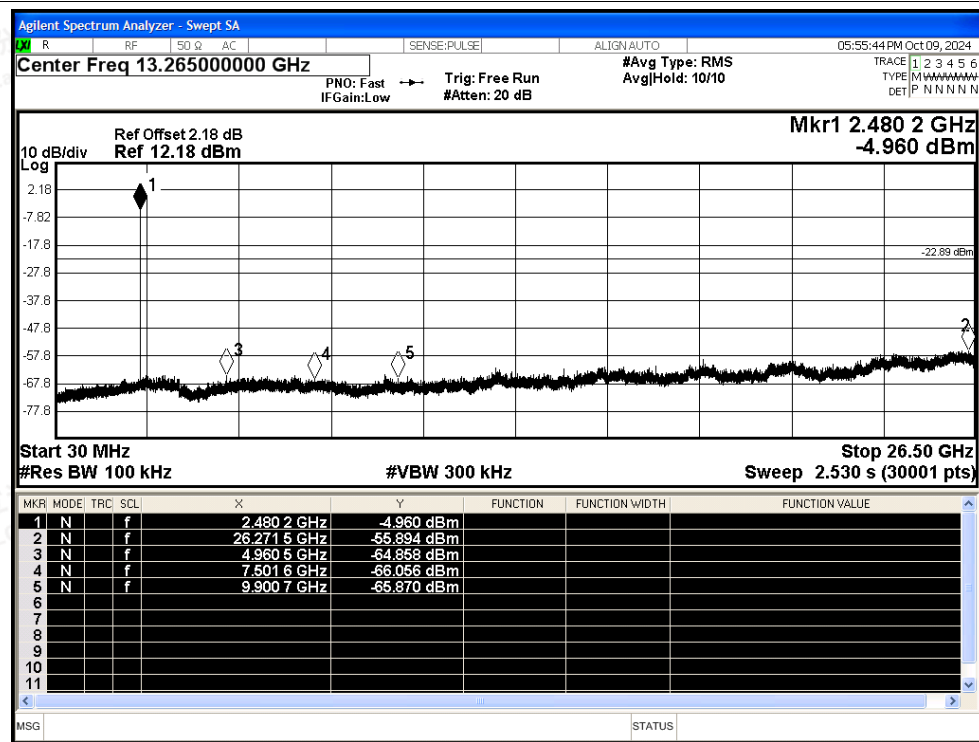
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	77.33	1.12	0.34
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	77.23	1.12	0.35



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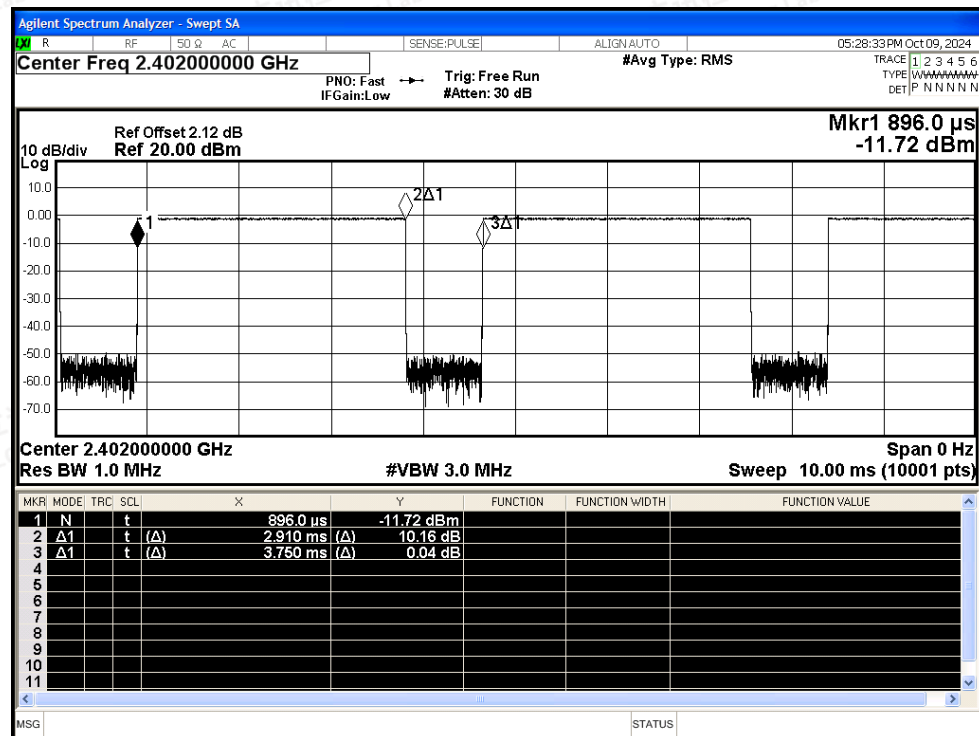
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

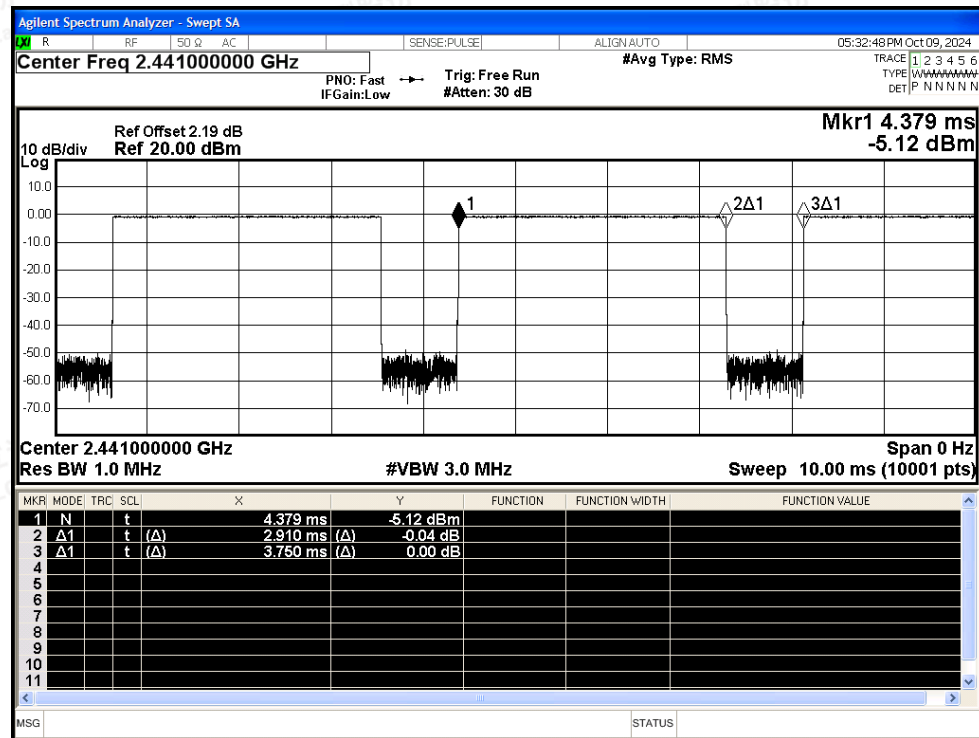


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

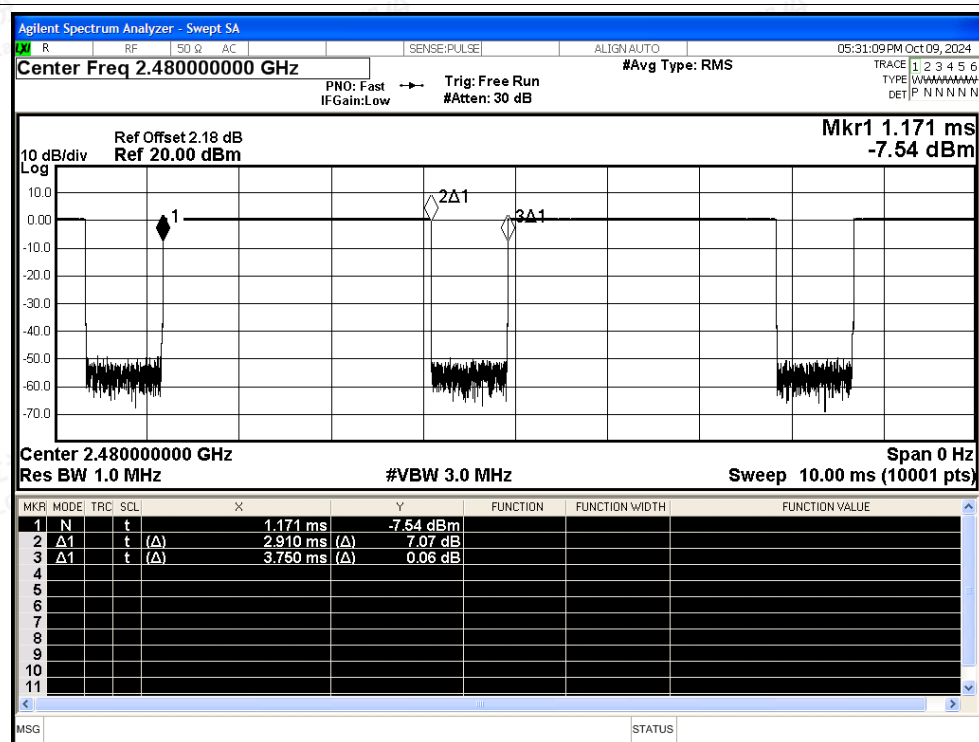
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

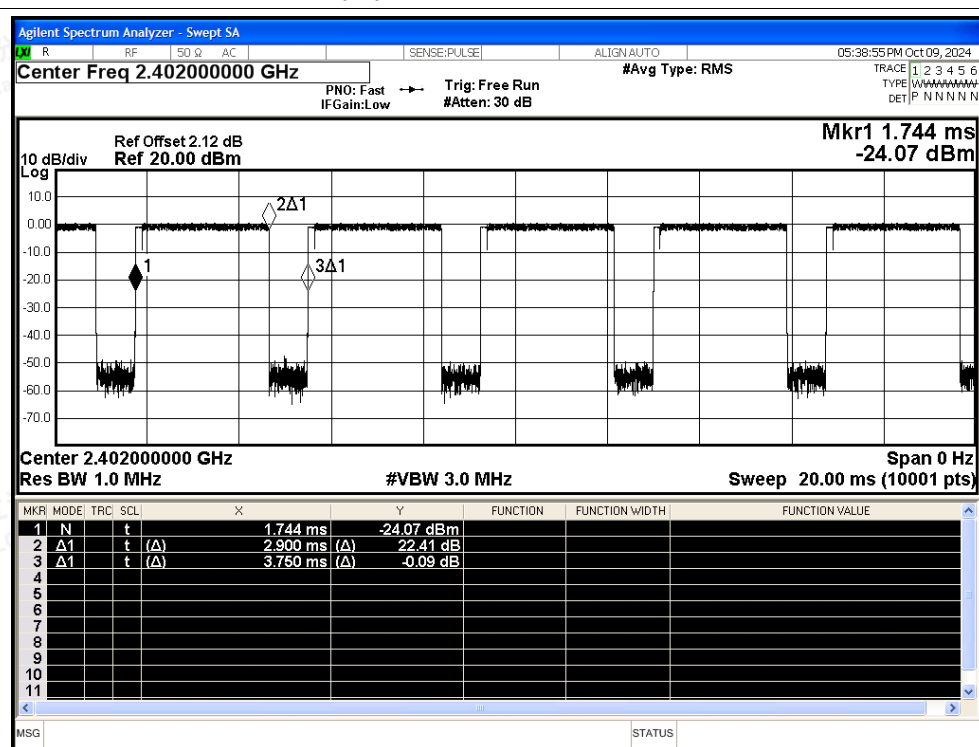
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

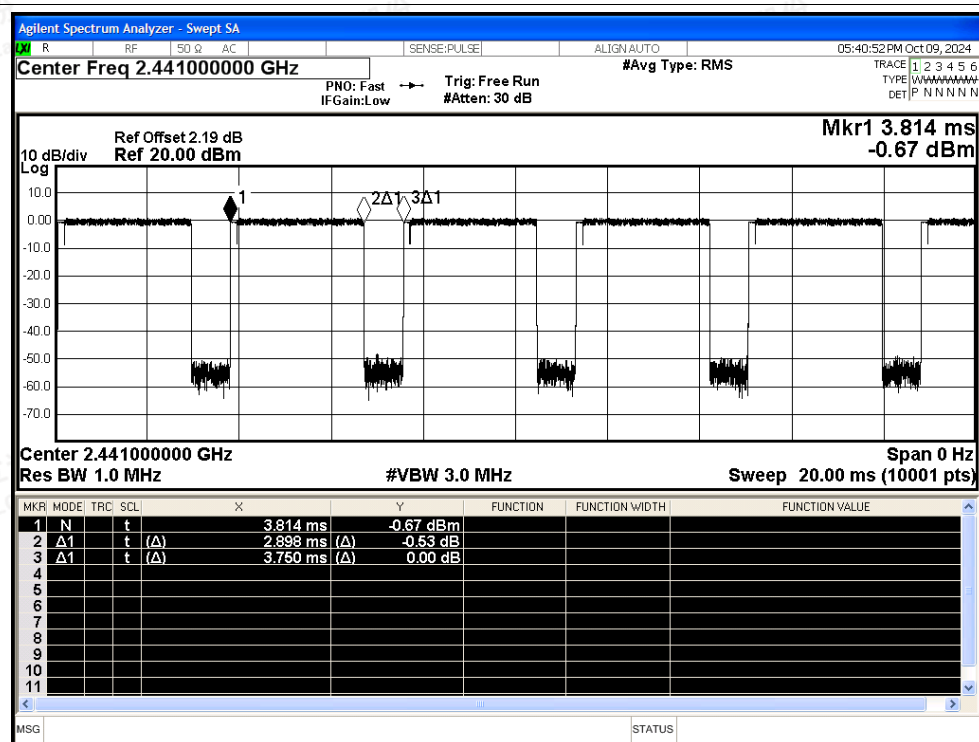
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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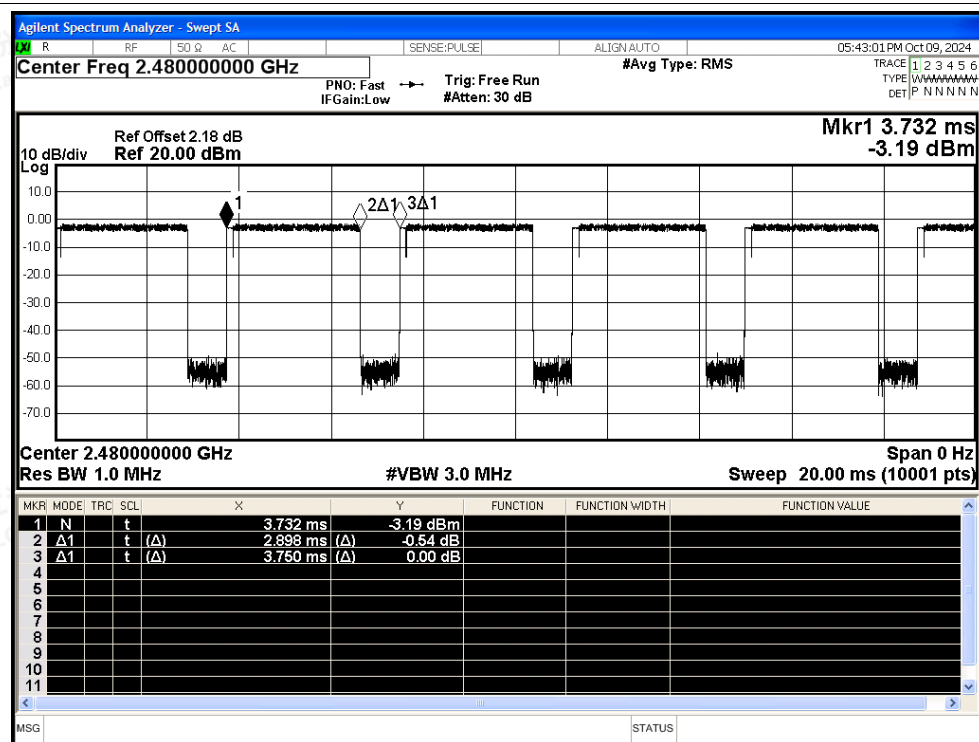
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Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



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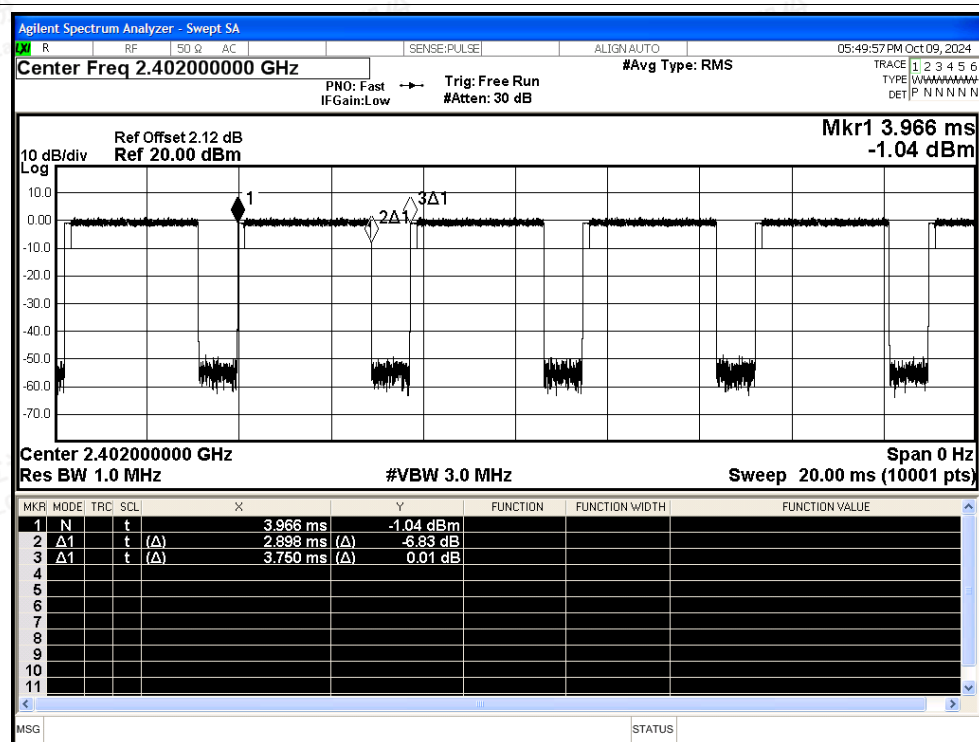
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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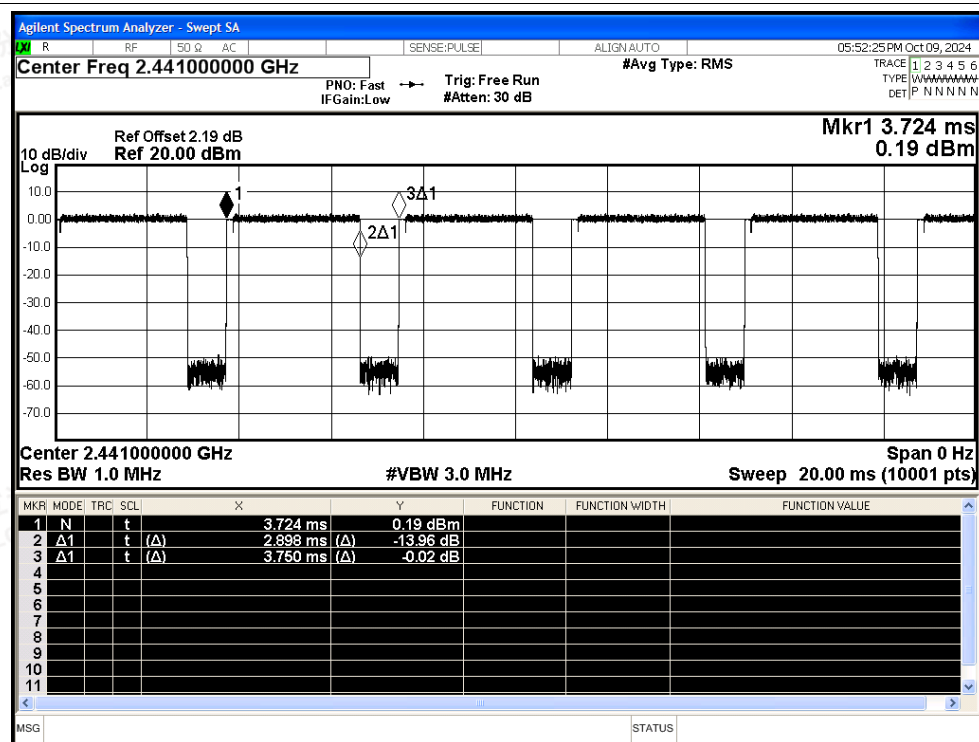
Scan code to check authenticity



Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

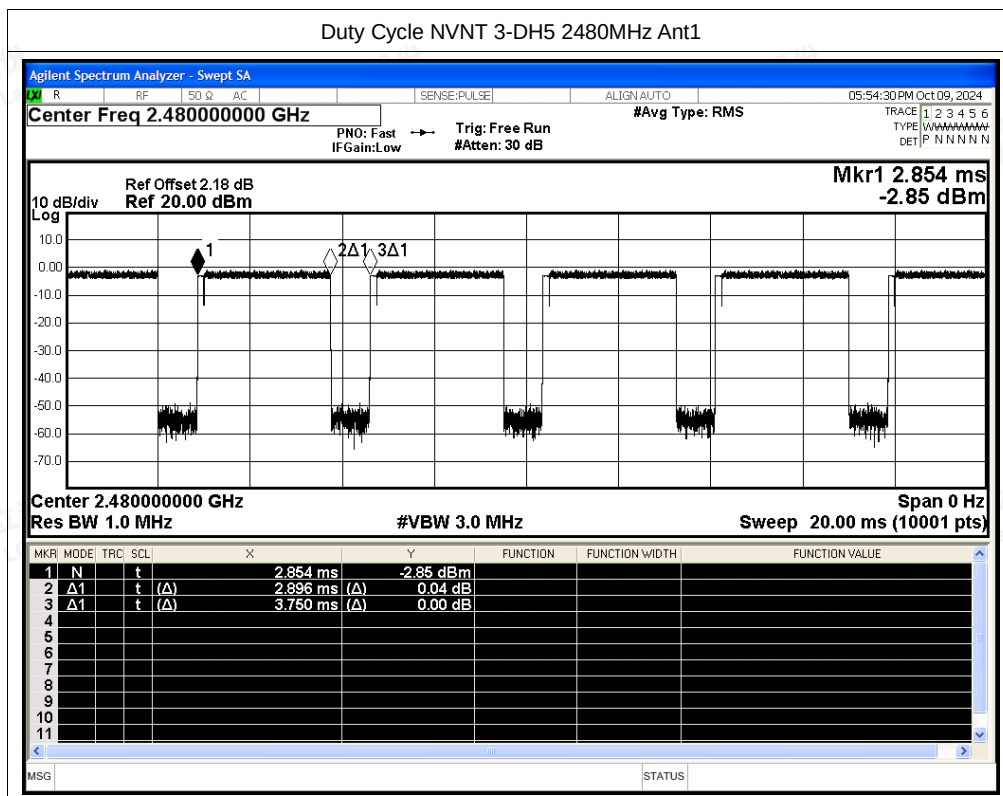


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A.9 Restrict Band

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	-51.28	2	-	45.98	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.36	2	1.1	40	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2346.96	-47.15	2	-	50.11	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2371.44	-57.59	2	1.1	40.77	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.44	2	-	46.82	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.87	2	1.1	39.49	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.58	2	-	46.68	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.92	2	1.1	41.44	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.312	-45.12	2	-	52.14	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-56.92	2	1.1	41.44	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.04	2	-	48.22	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.32	2	1.1	40.04	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.05	2	-	47.21	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.44	2	1.12	39.94	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2385.744	-46.87	2	-	50.39	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2369.04	-57.46	2	1.12	40.92	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.14	2	-	46.12	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.25	2	1.12	40.13	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.04	2	-	48.22	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.08	2	1.12	41.3	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.12	-46.96	2	-	50.3	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-57.08	2	1.12	41.3	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.13	2	-	49.13	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.28	2	1.12	40.1	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.44	2	-	47.82	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.73	2	1.12	39.65	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2340.144	-47.02	2	-	50.24	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2369.424	-57.19	2	1.12	41.19	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.37	2	-	47.89	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.29	2	1.12	40.09	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.97	2	-	47.29	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.1	2	1.12	40.28	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2489.272	-46.79	2	-	50.47	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2488.096	-56.91	2	1.12	41.47	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.6	2	-	47.66	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.91	2	1.12	40.47	Average	54	Pass



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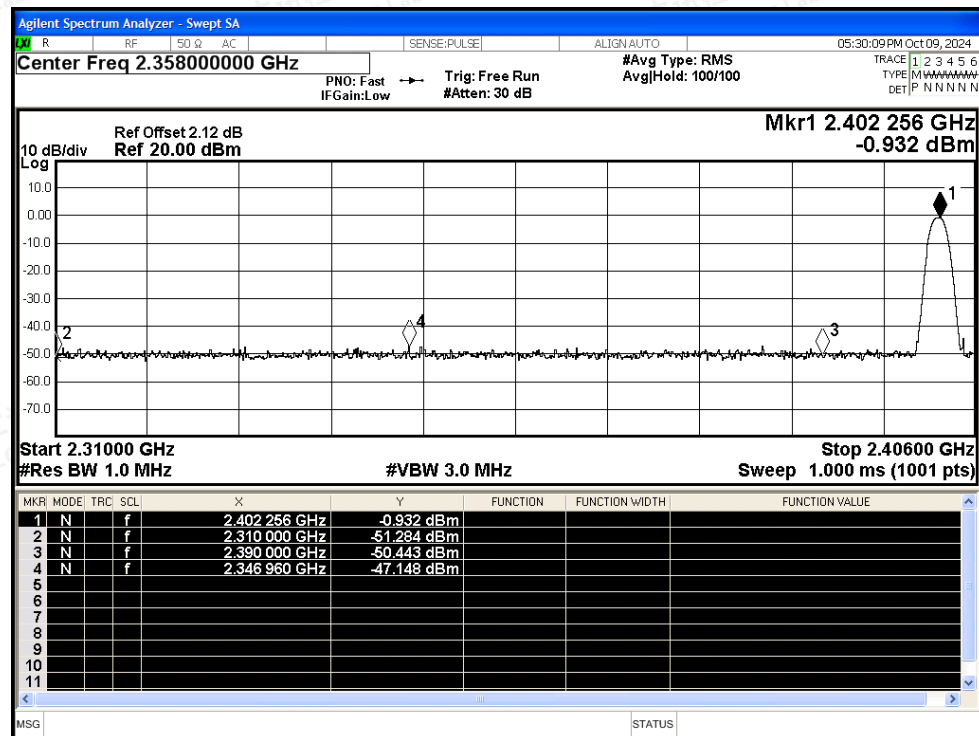
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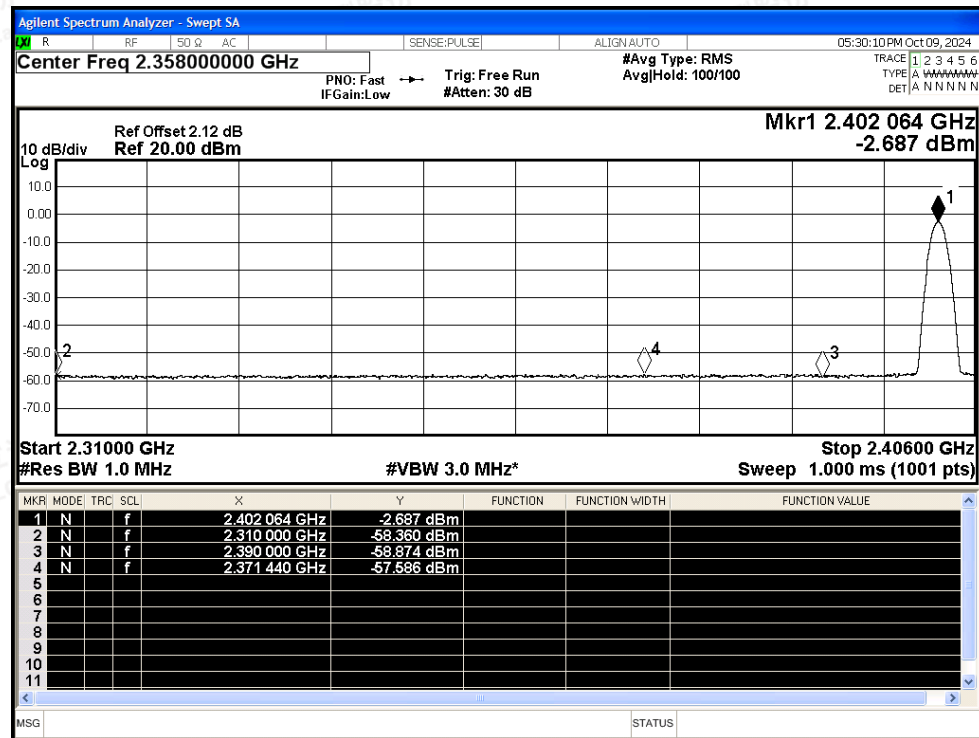


Test Graphs

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



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

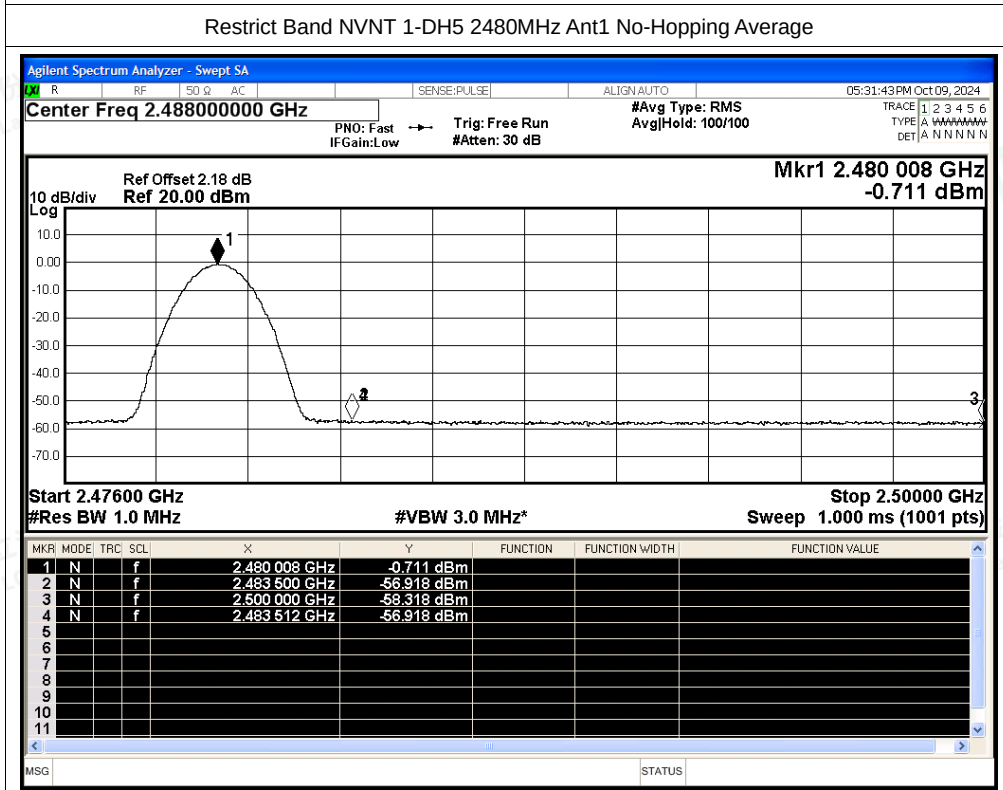
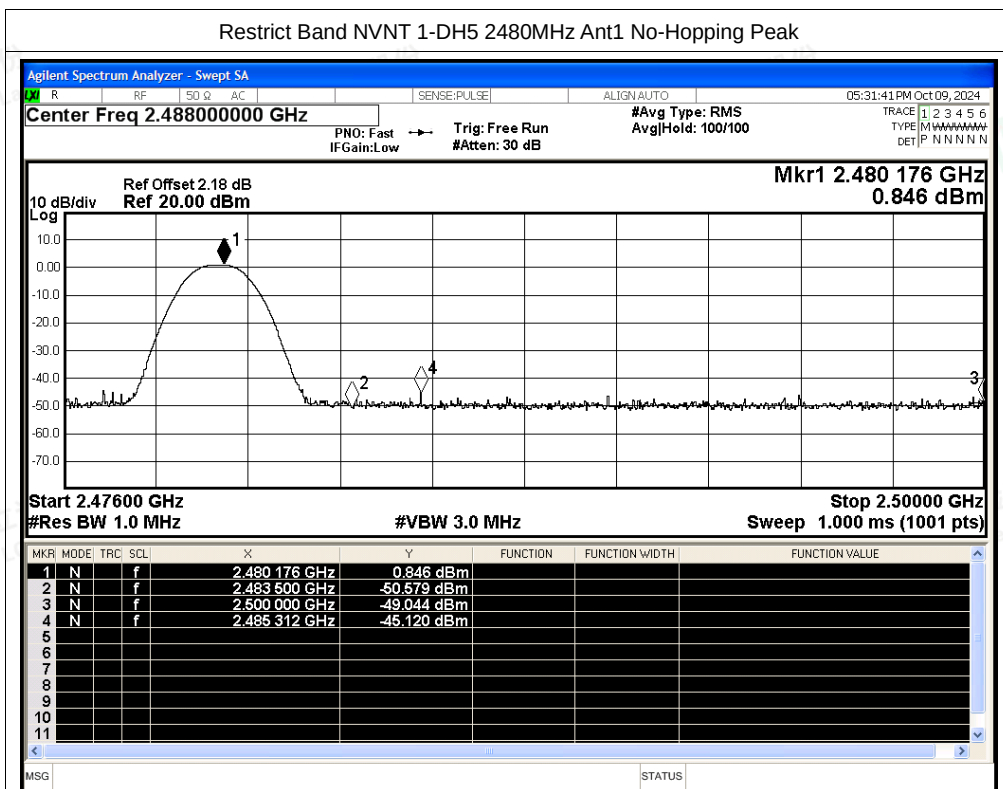


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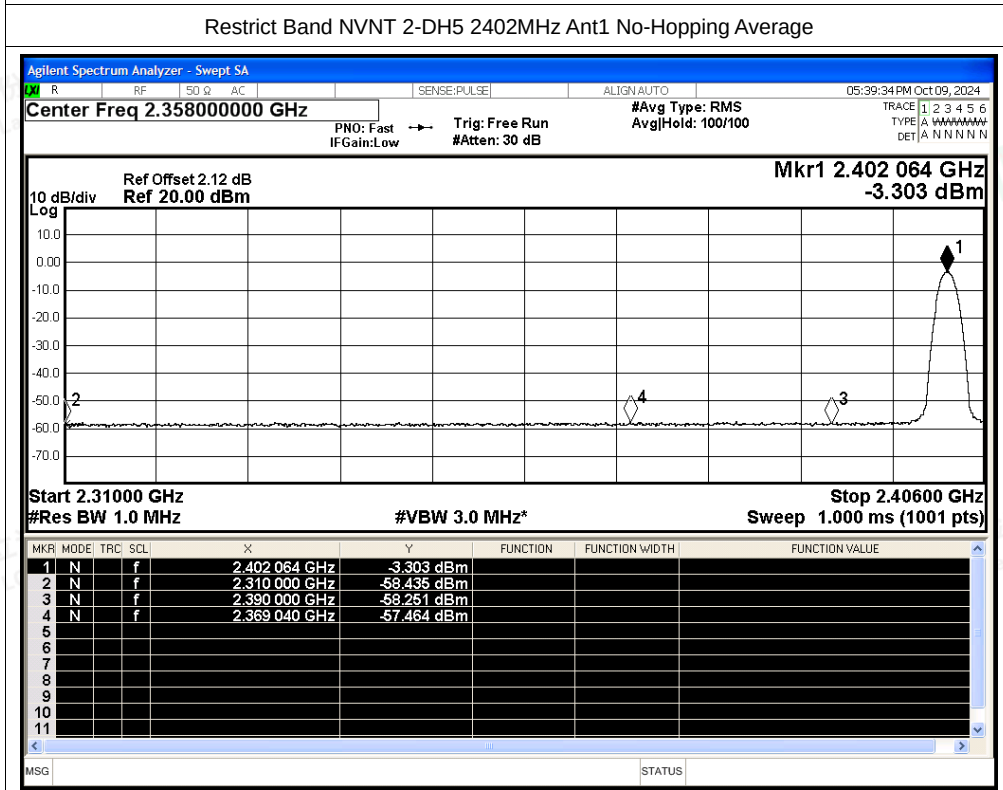
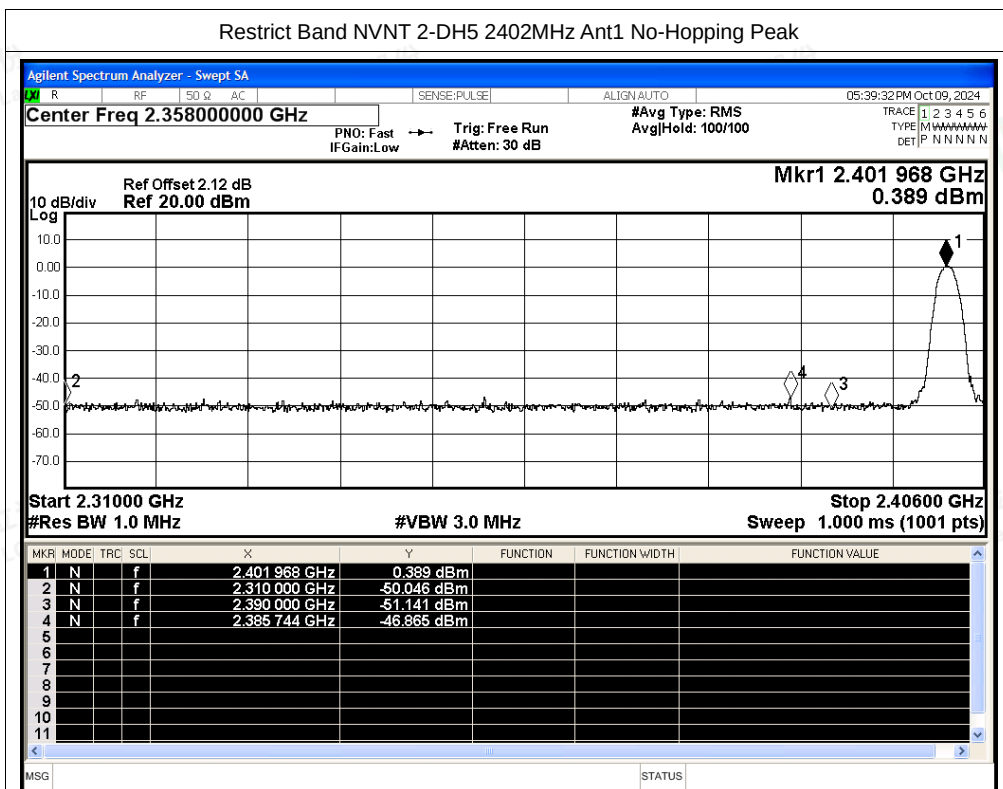


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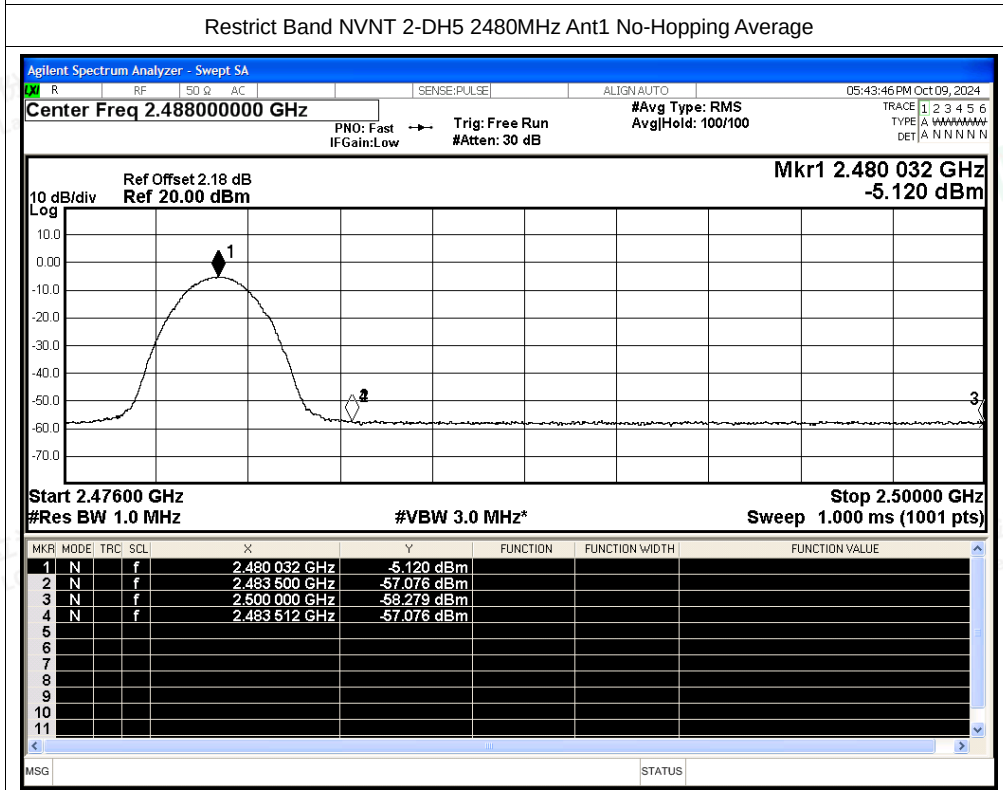
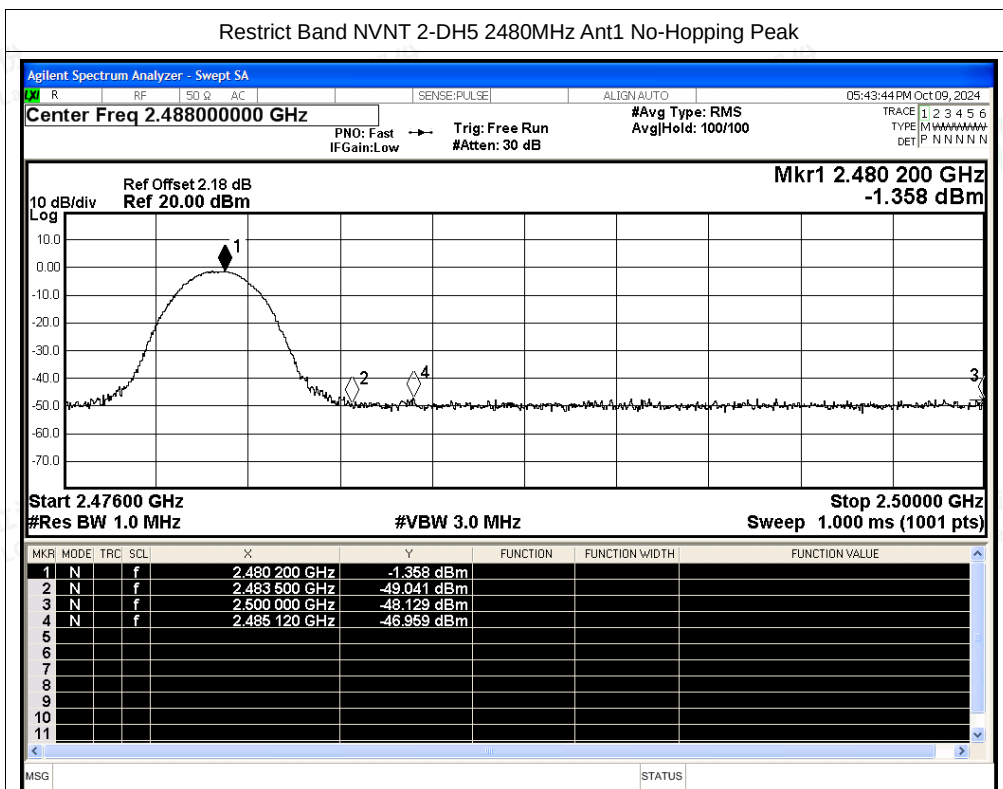


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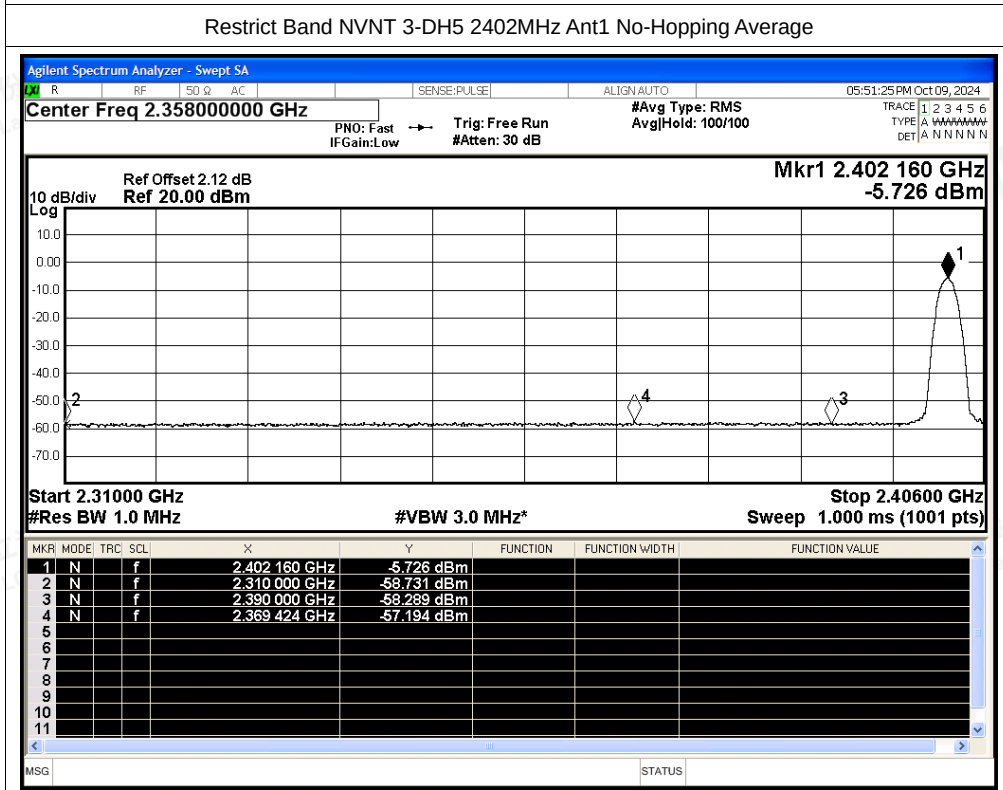
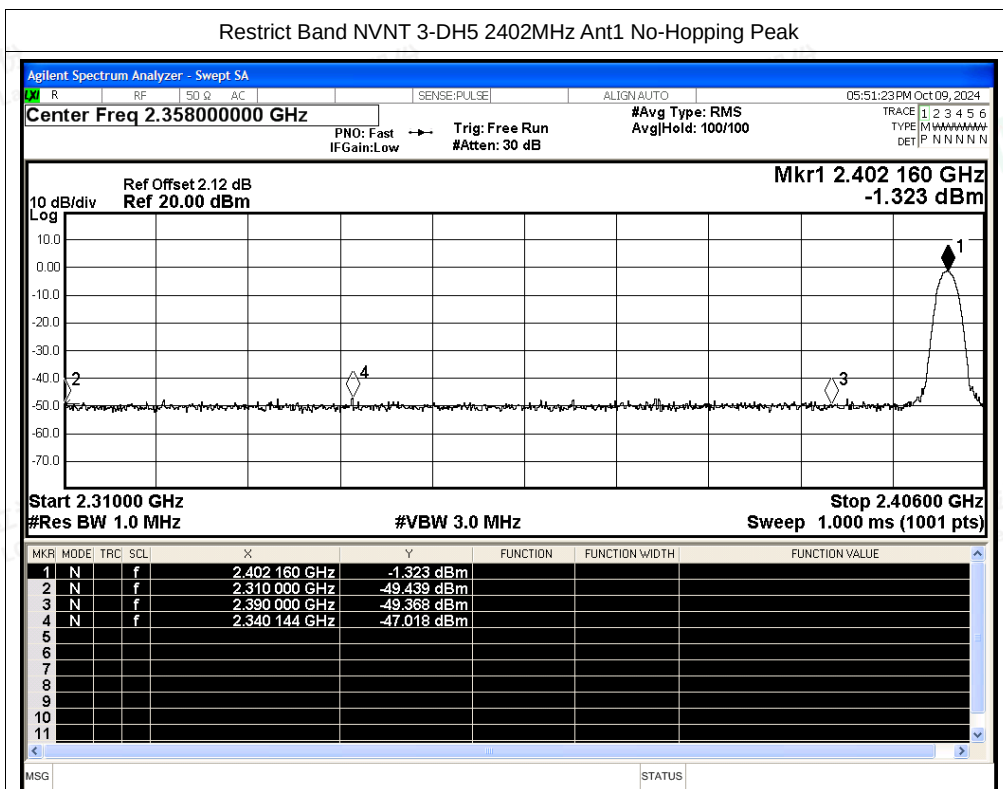


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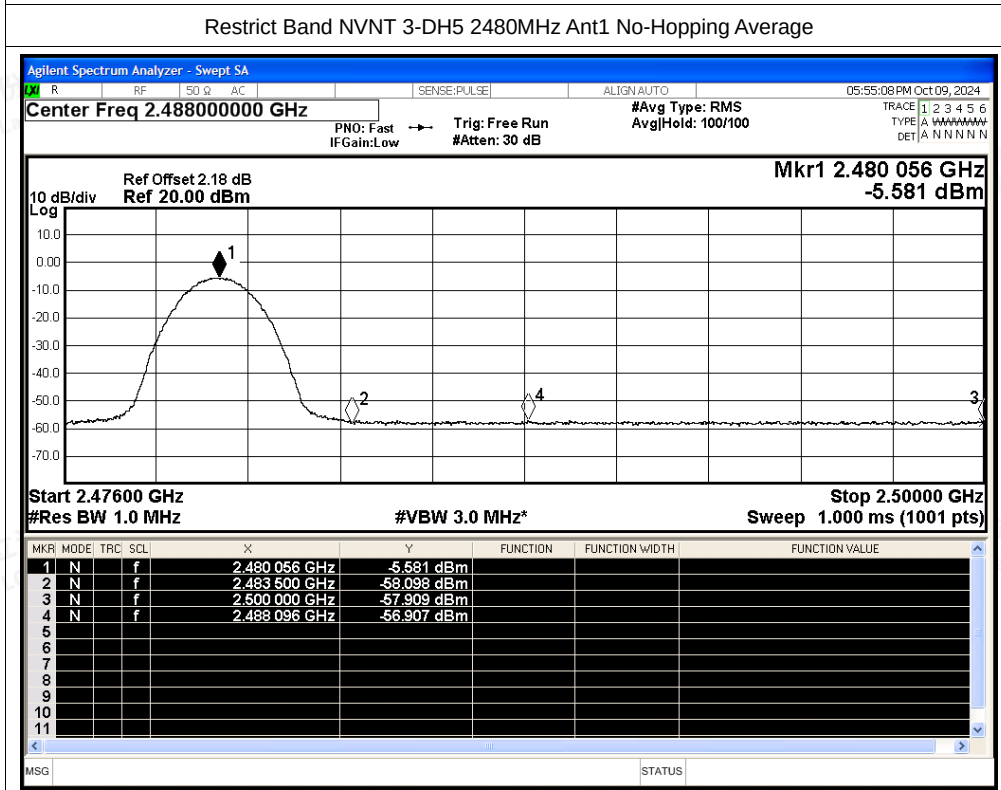
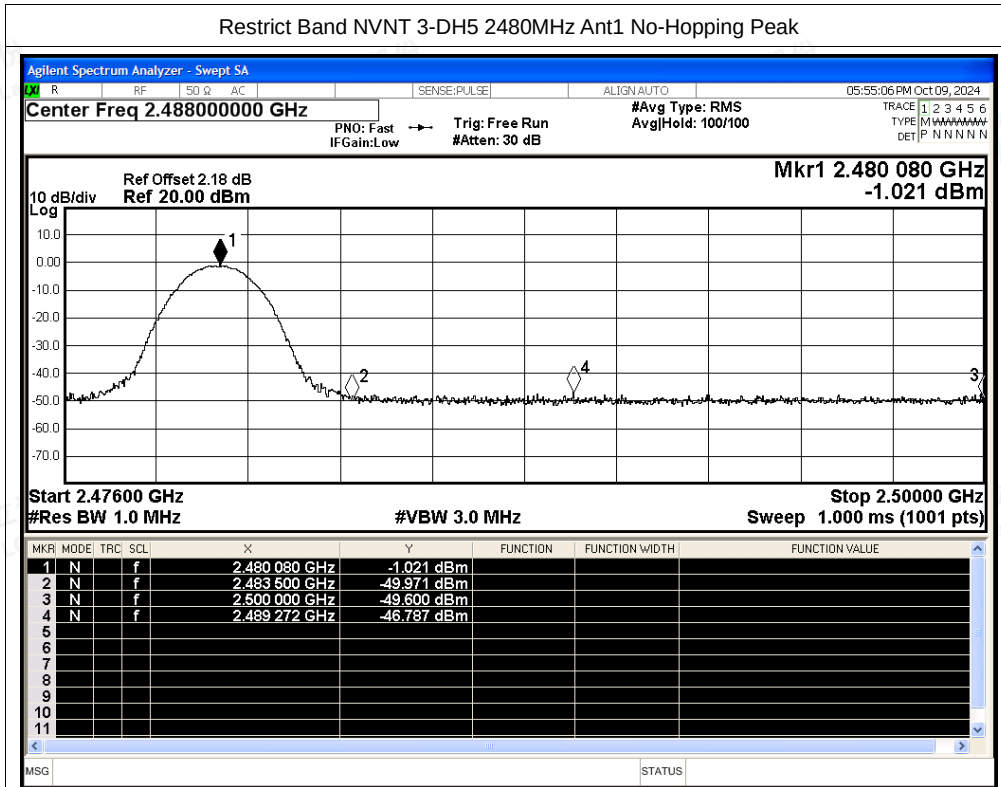


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