



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: SMART BACKING CYBER-G GUITAR

Test Model: CYBER-G

Environmental Conditions

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



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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	0.94	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.964	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.937	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.283	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.288	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.283	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.314	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.293	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.296	N/A	Pass



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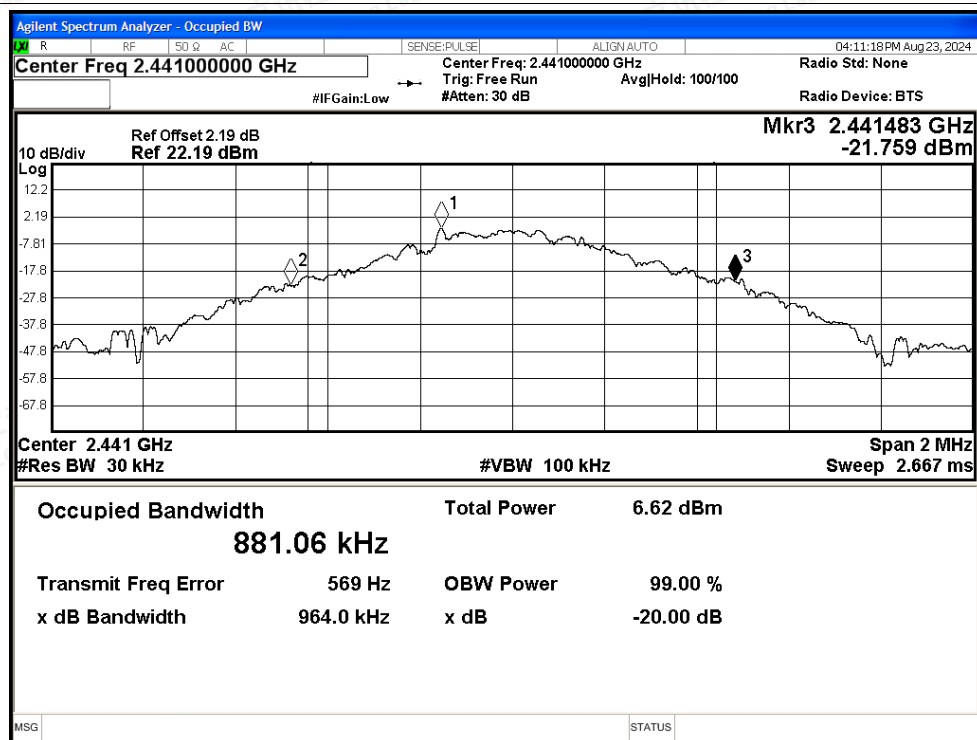


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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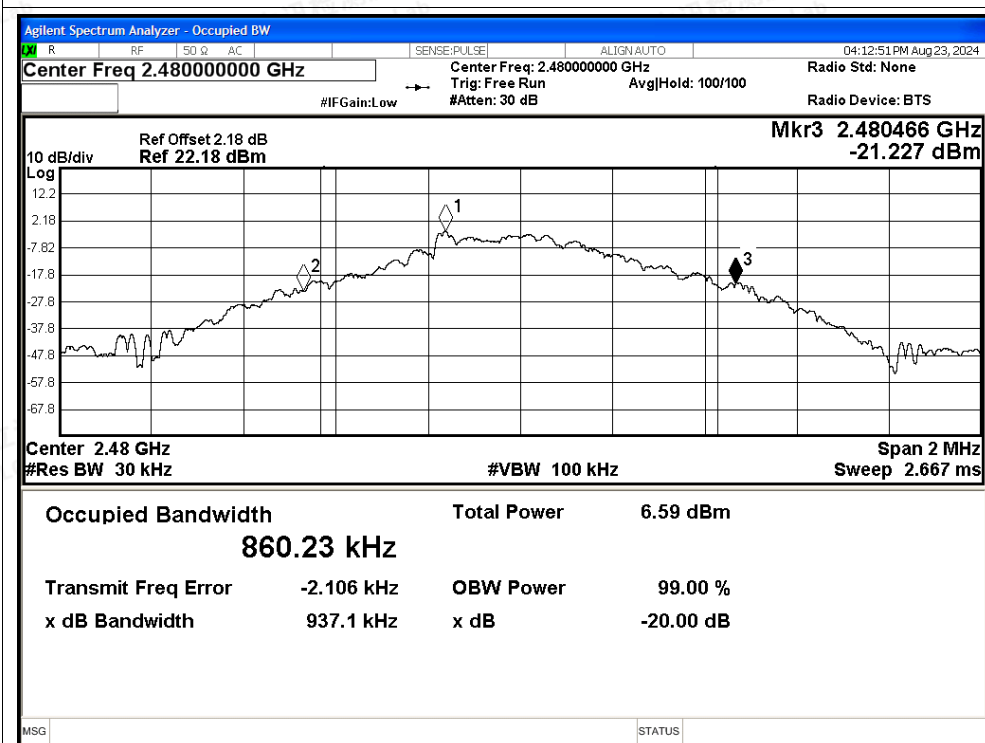
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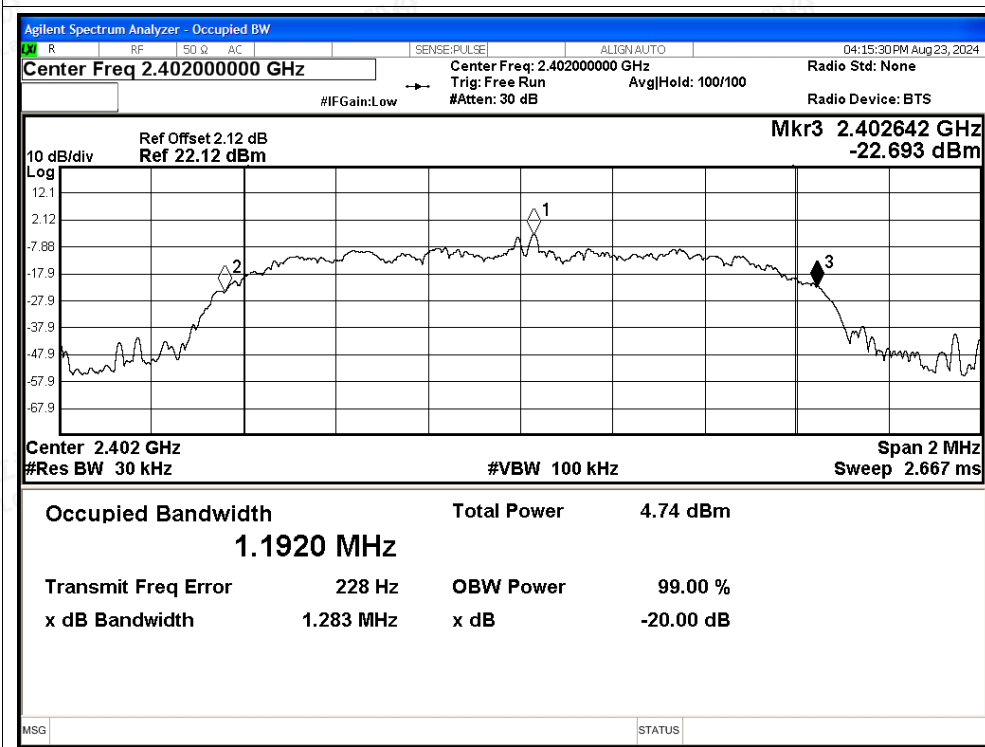
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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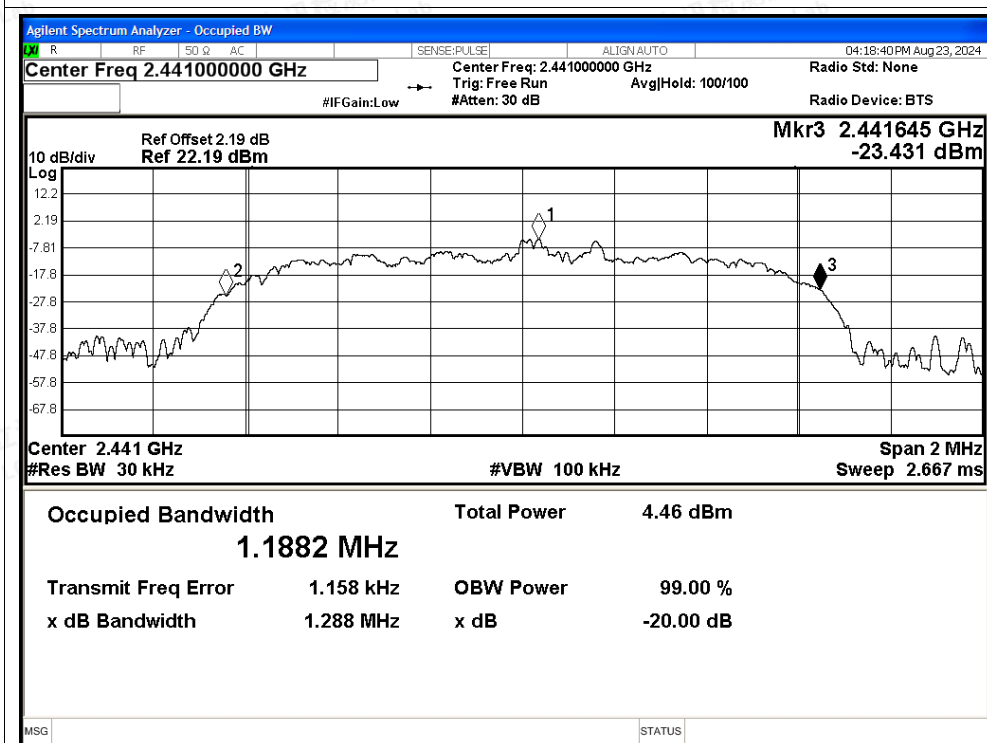
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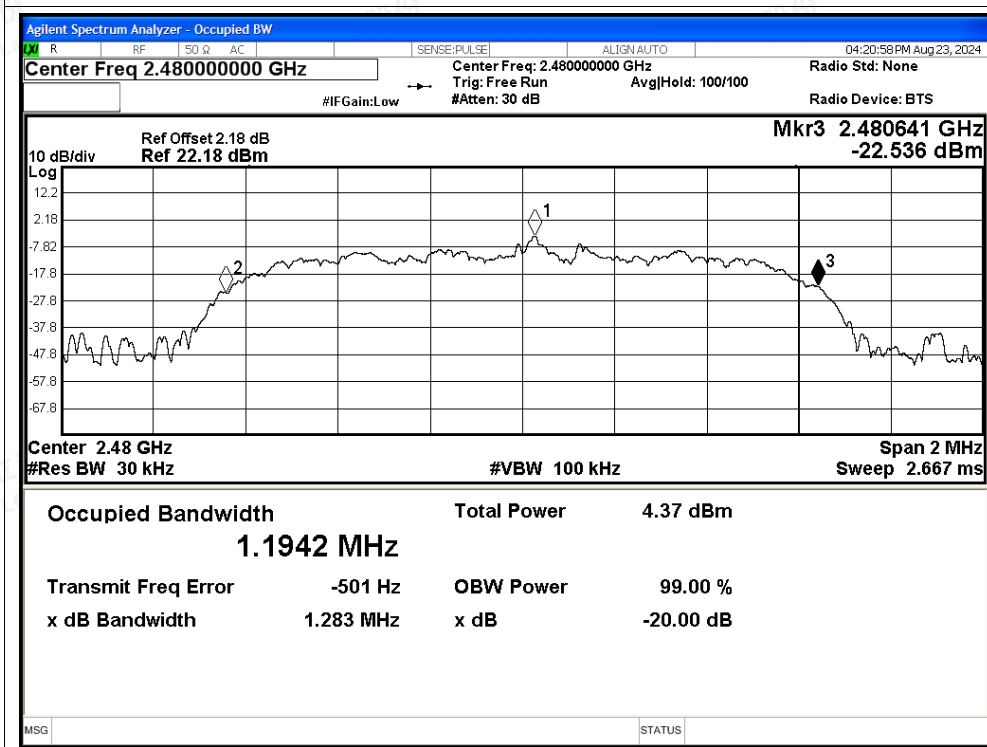
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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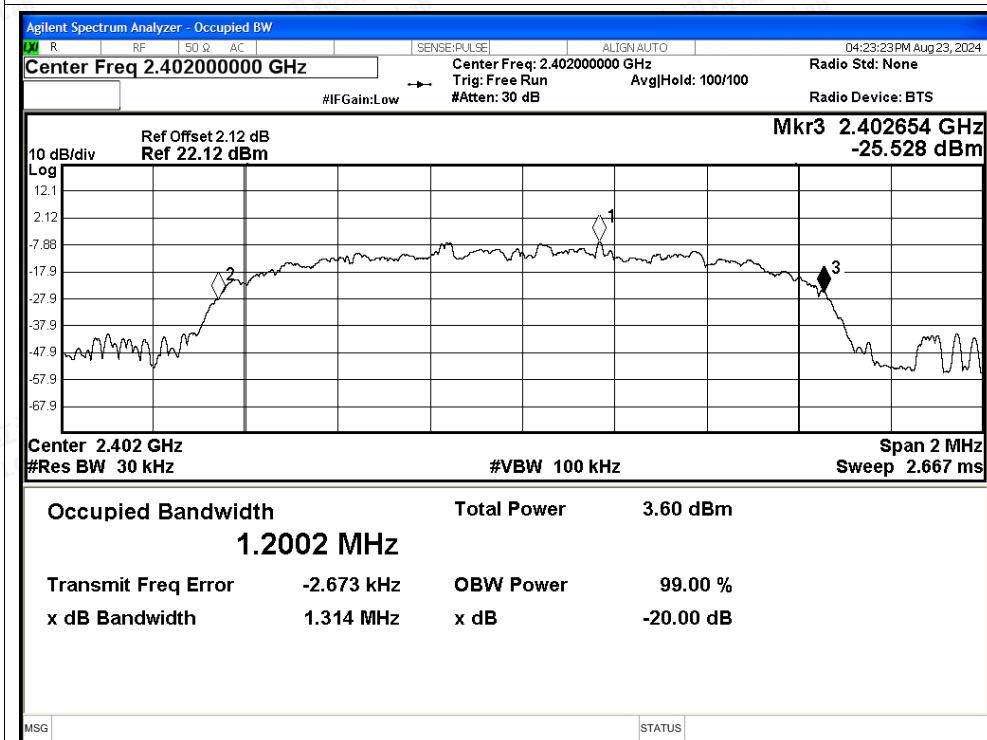
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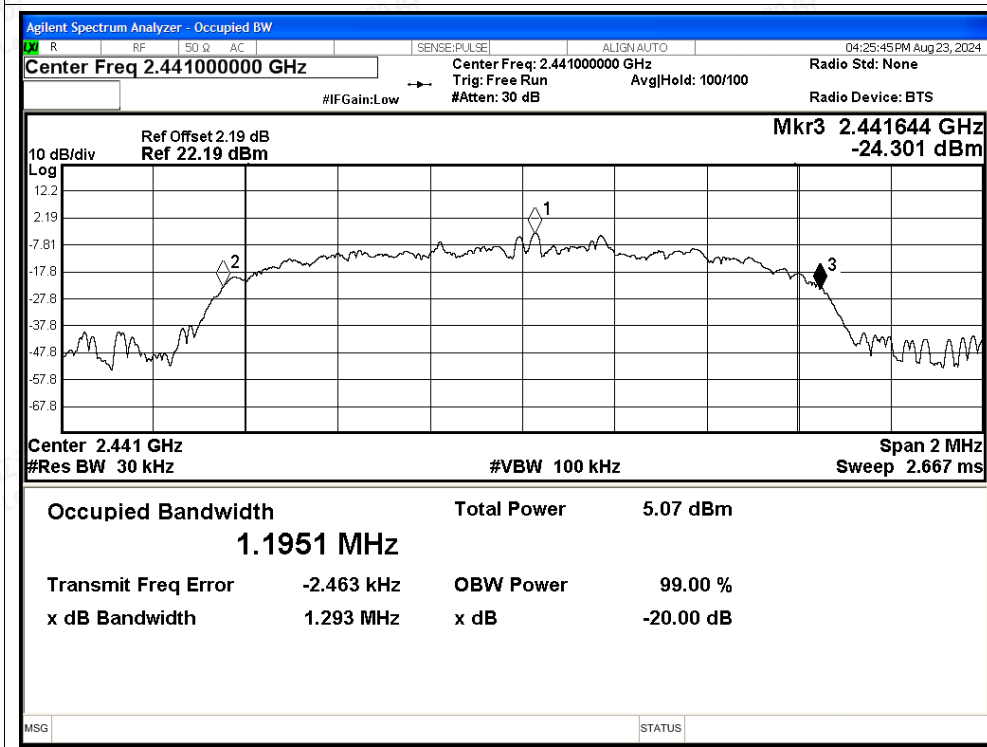
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

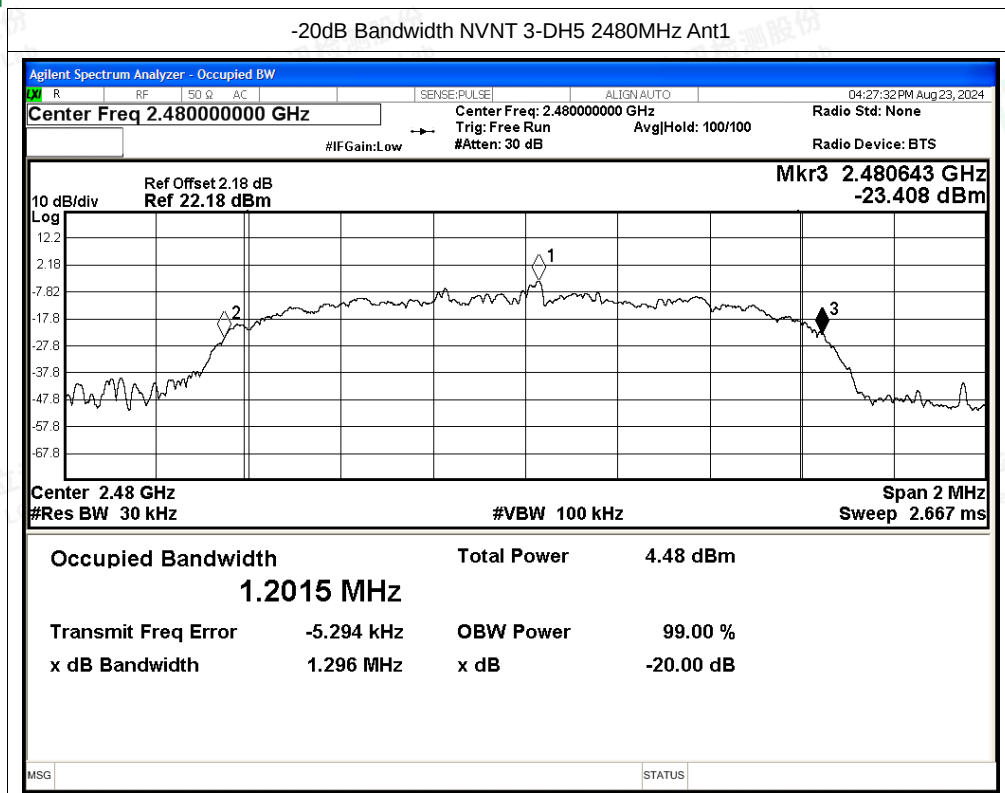


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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.04	21	Pass
NVNT	1-DH5	2441	Ant1	0.42	21	Pass
NVNT	1-DH5	2480	Ant1	-0.09	21	Pass
NVNT	2-DH5	2402	Ant1	0.59	21	Pass
NVNT	2-DH5	2441	Ant1	-0.33	21	Pass
NVNT	2-DH5	2480	Ant1	-0.25	21	Pass
NVNT	3-DH5	2402	Ant1	-0.62	21	Pass
NVNT	3-DH5	2441	Ant1	0.50	21	Pass
NVNT	3-DH5	2480	Ant1	-0.04	21	Pass

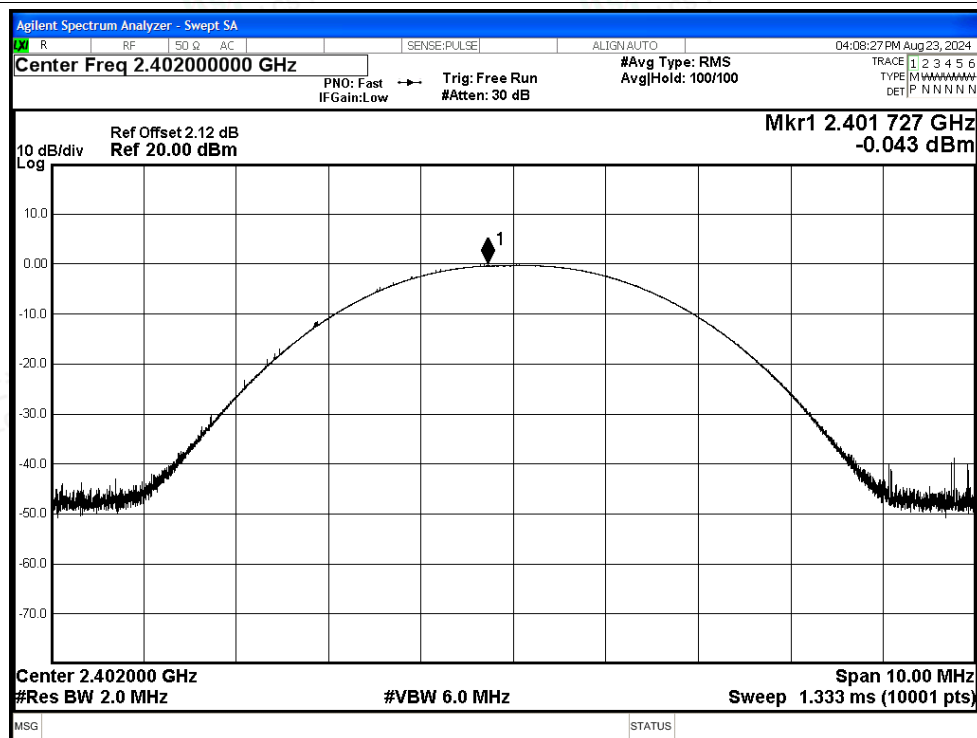


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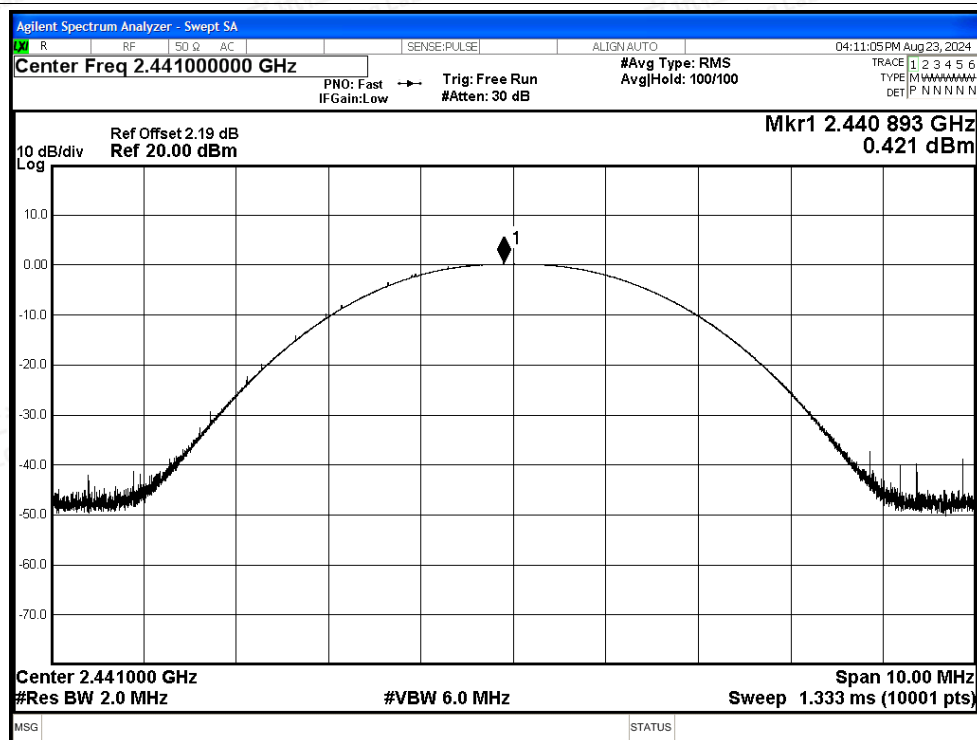


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

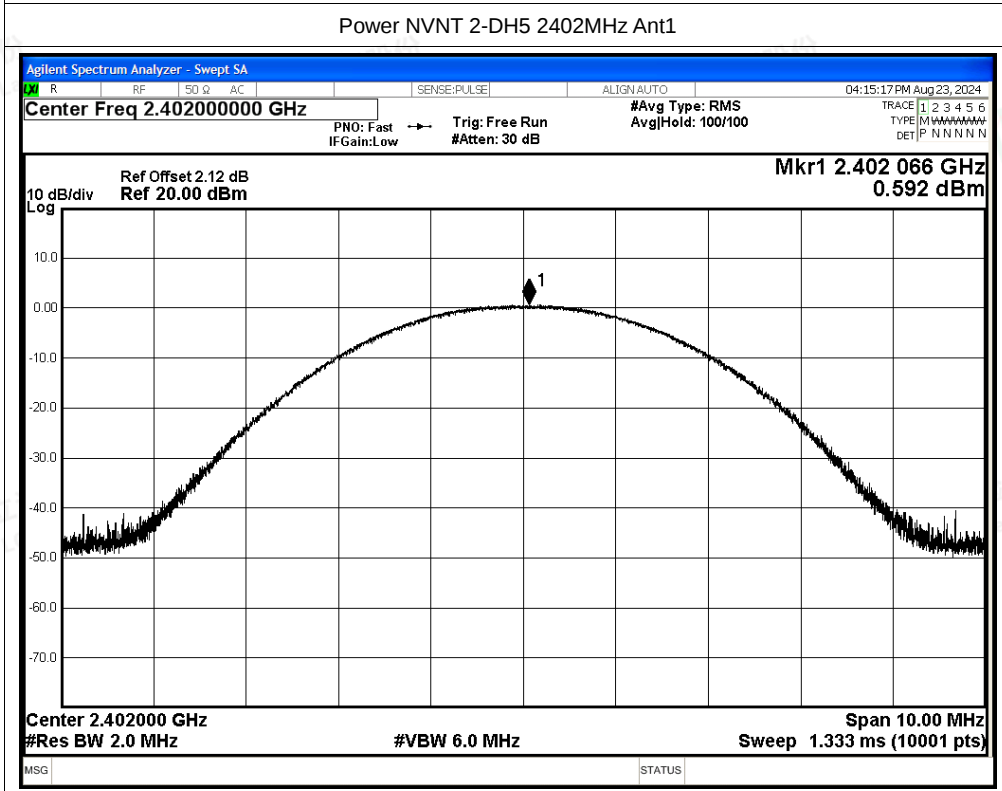
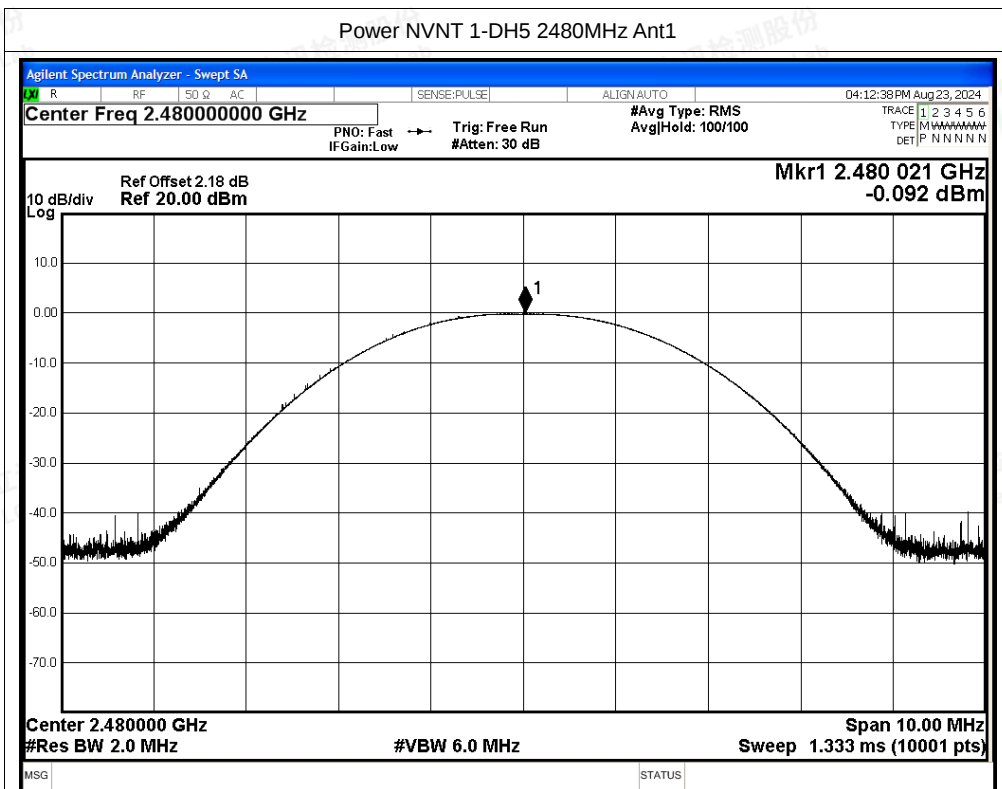


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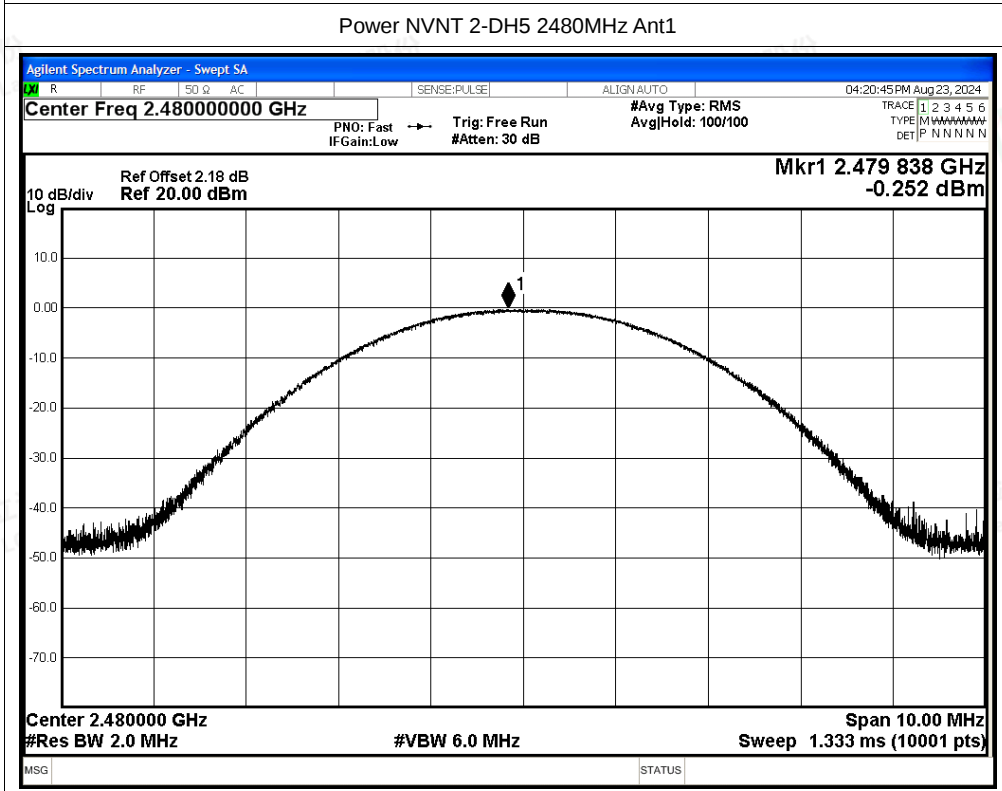
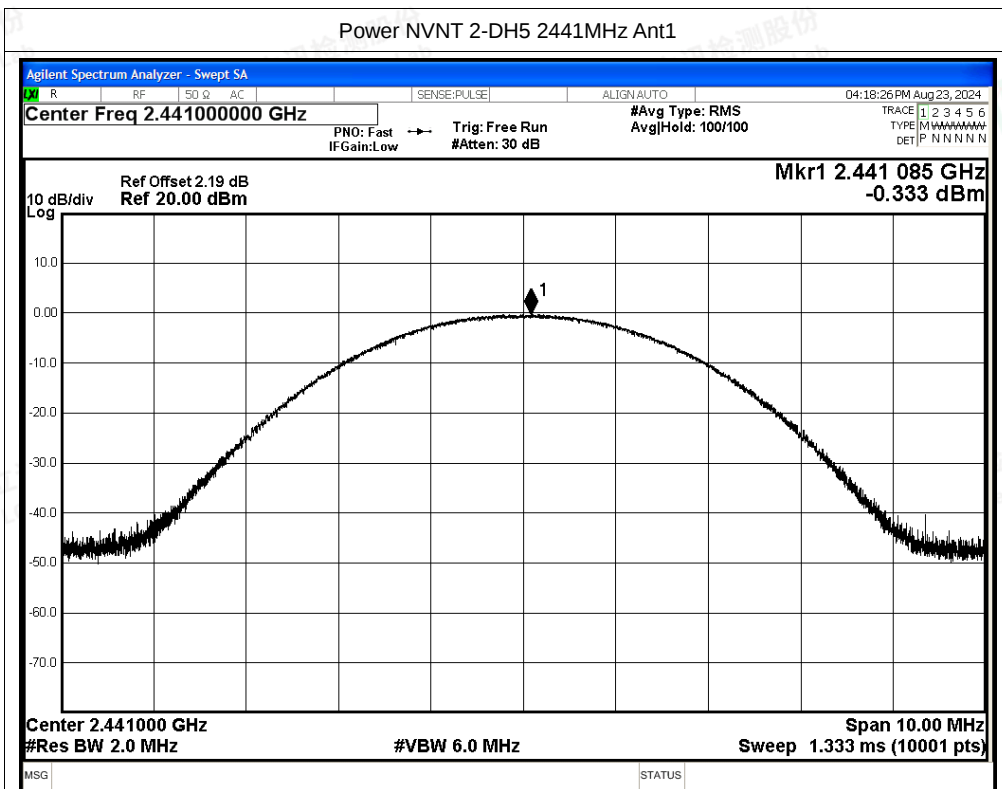


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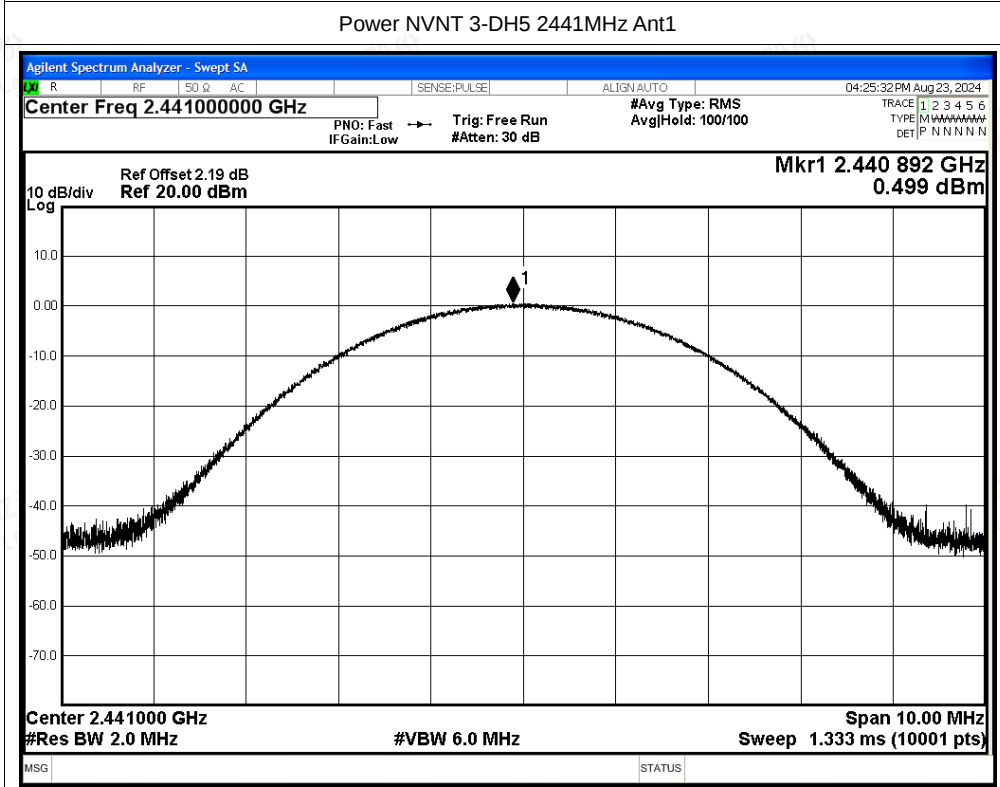
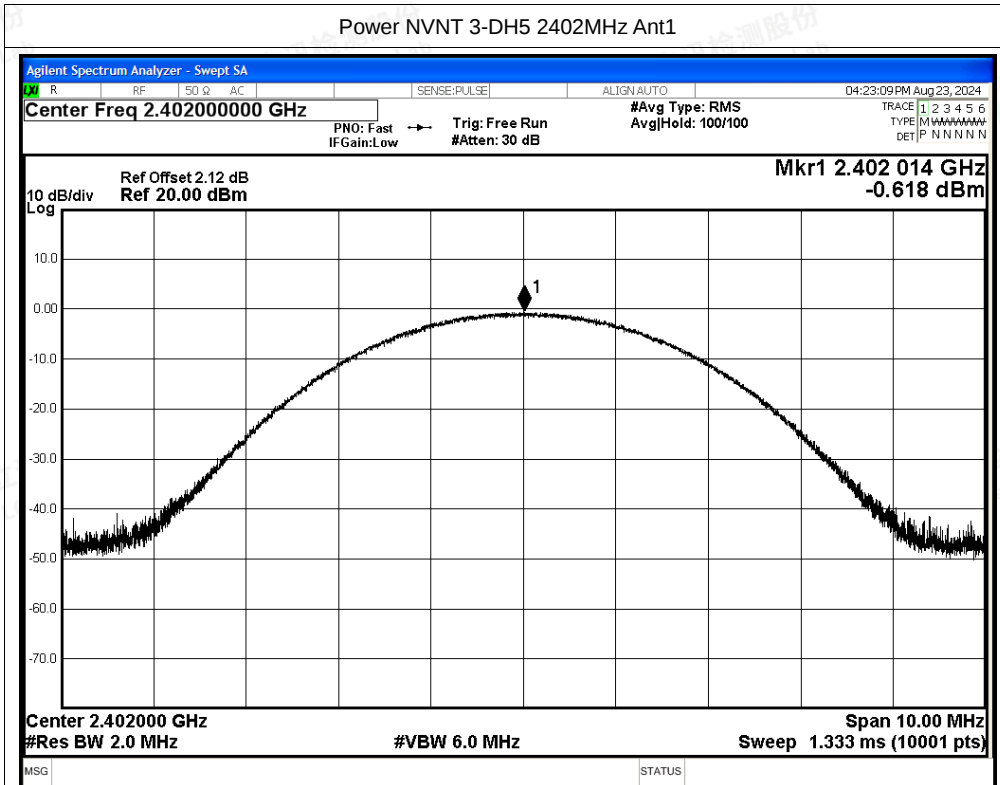


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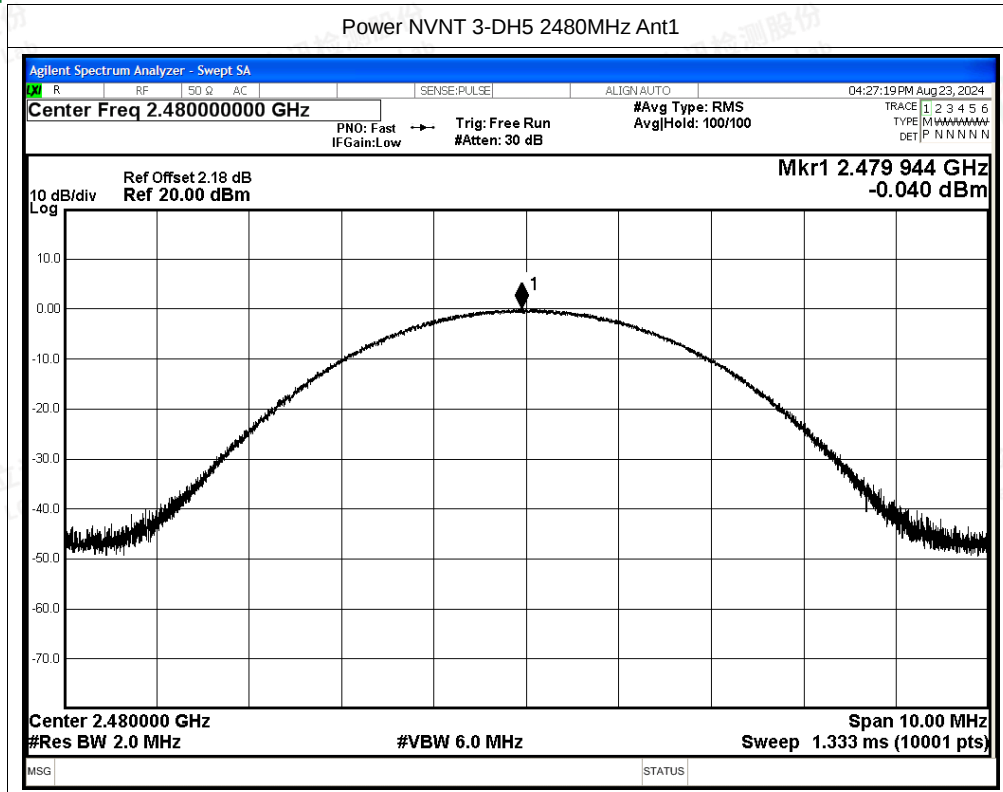


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.846	2402.972	1.126	0.643	Pass
NVNT	2-DH5	Ant1	2402.016	2403.008	0.992	0.859	Pass
NVNT	3-DH5	Ant1	2402.032	2403.012	0.98	0.876	Pass

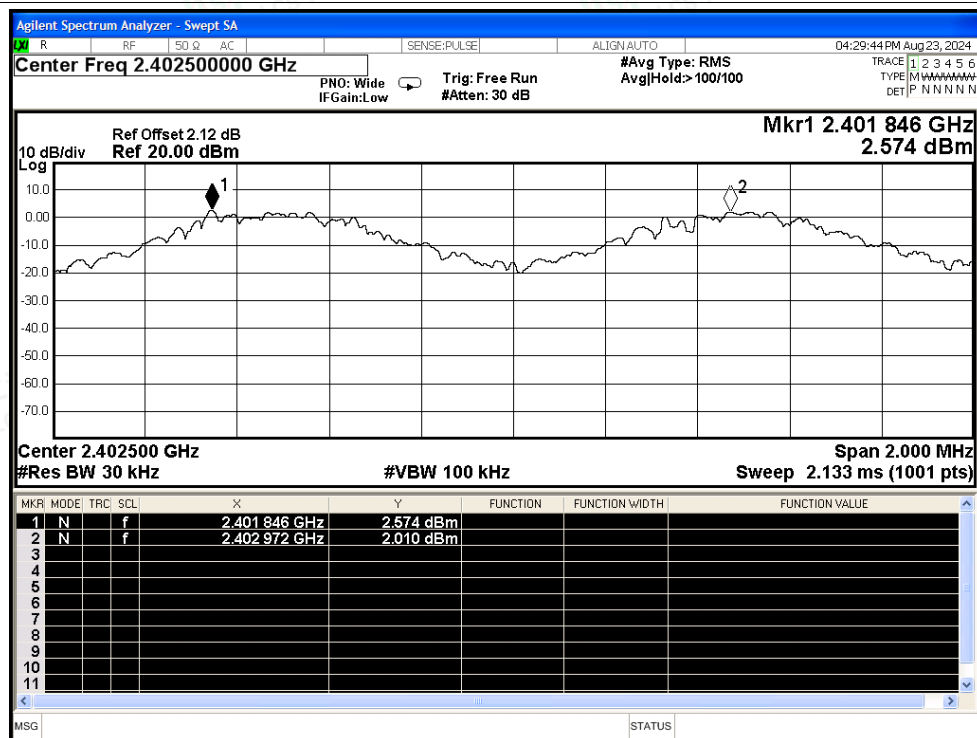


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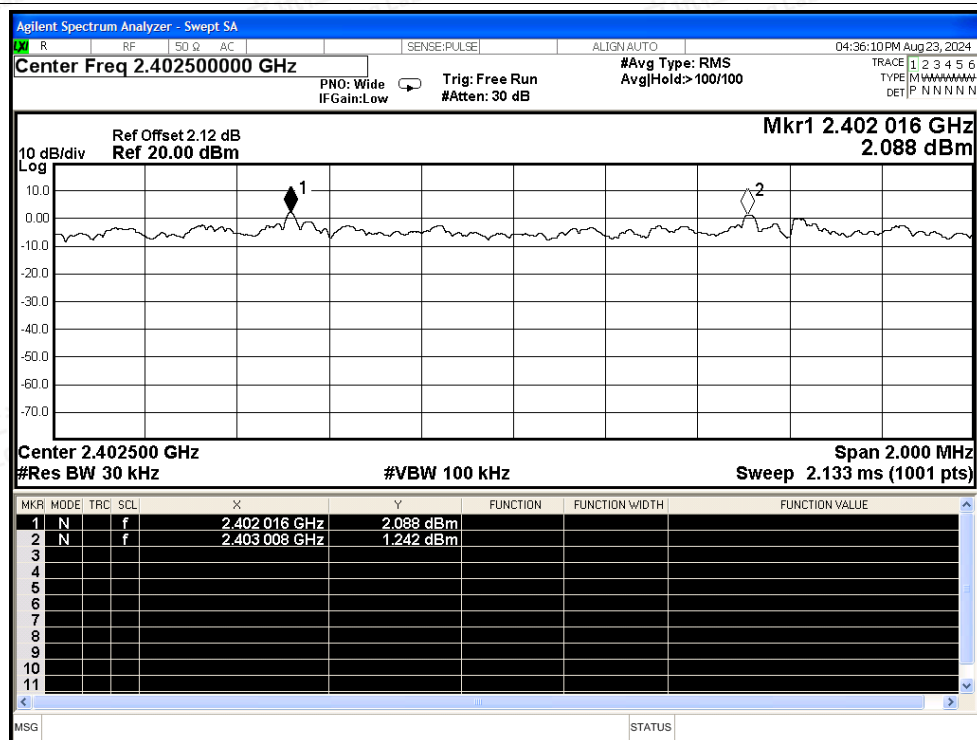


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

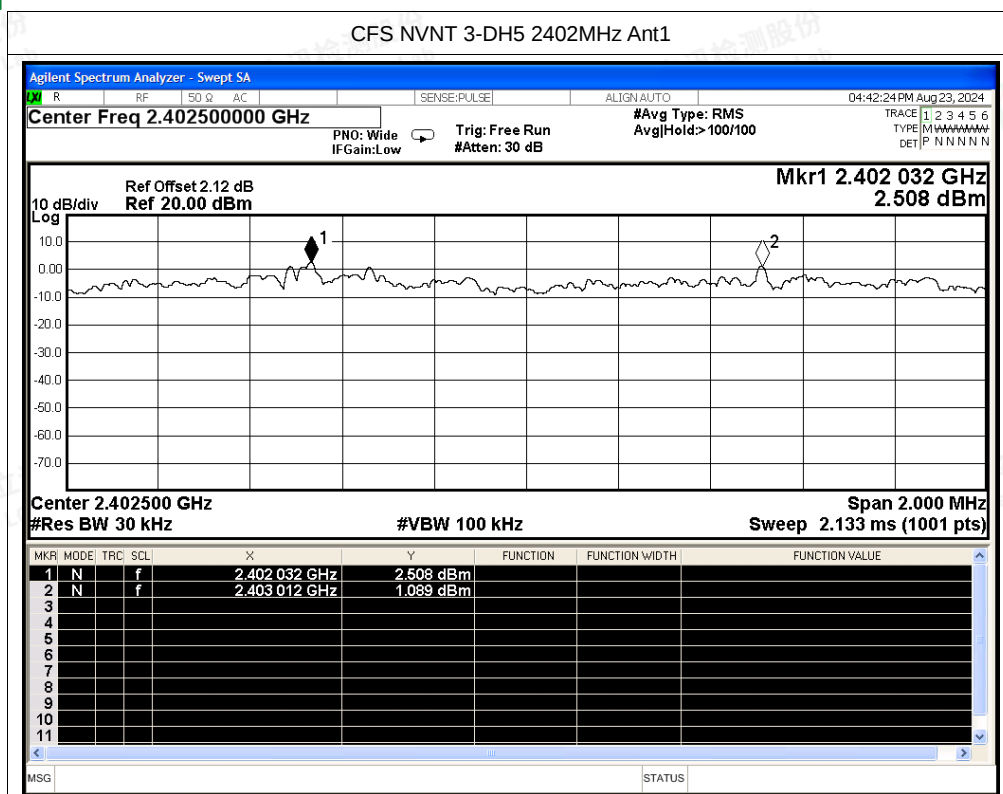


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A.4 Dwell Time

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	288.09	99	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	327.474	113	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	257.833	89	31600	400	Pass

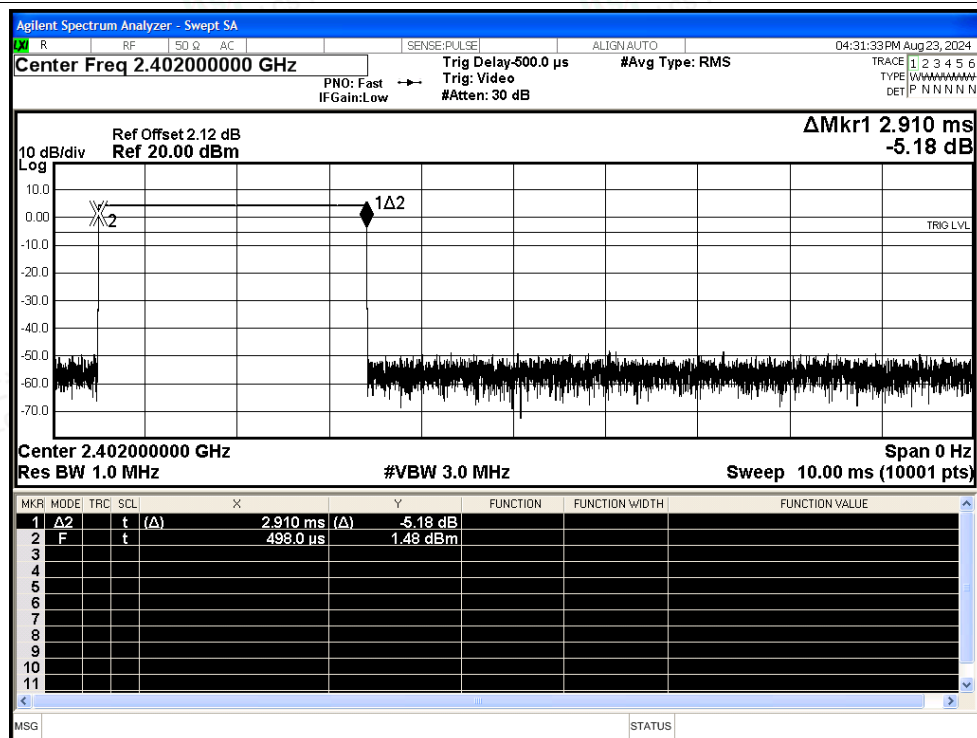


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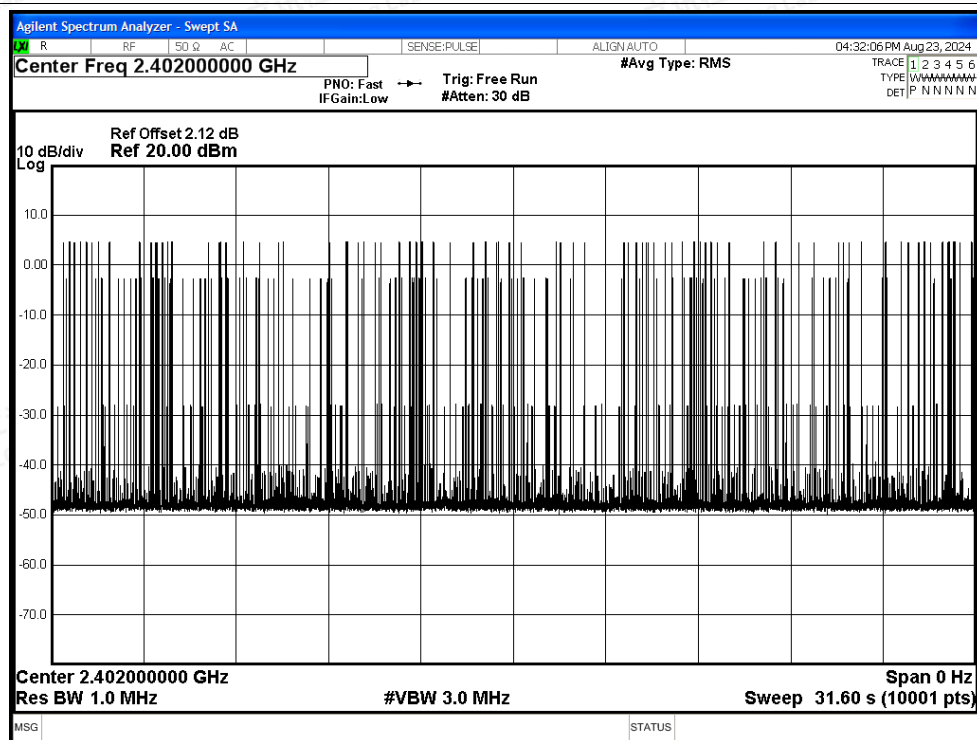


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

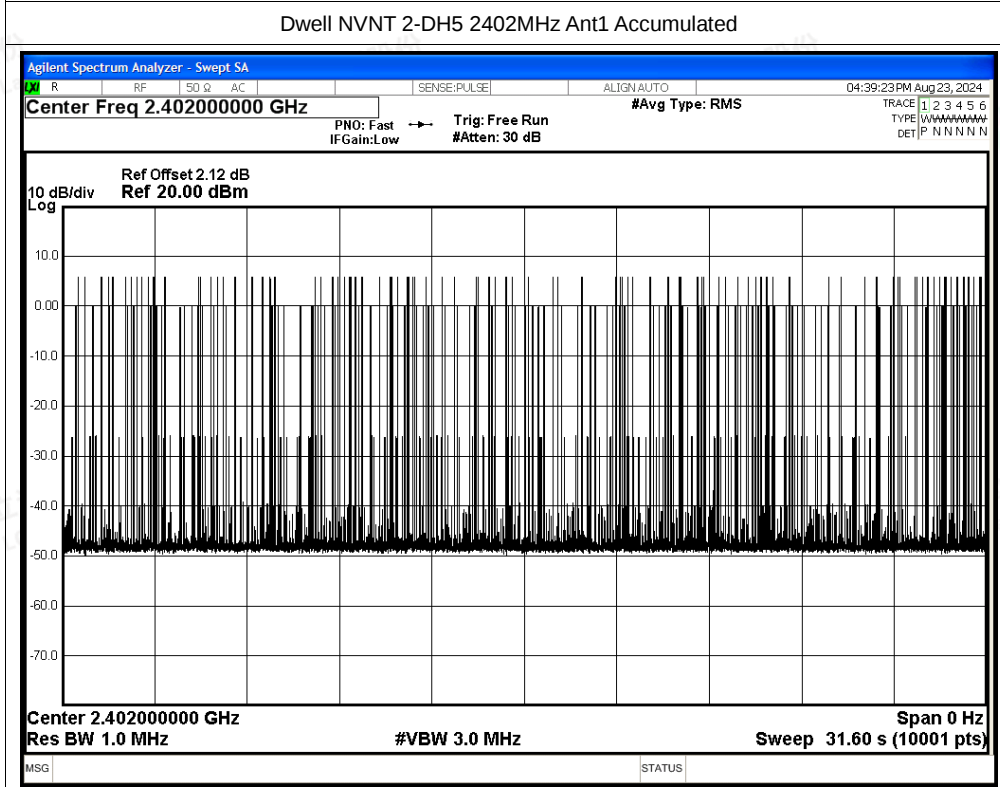
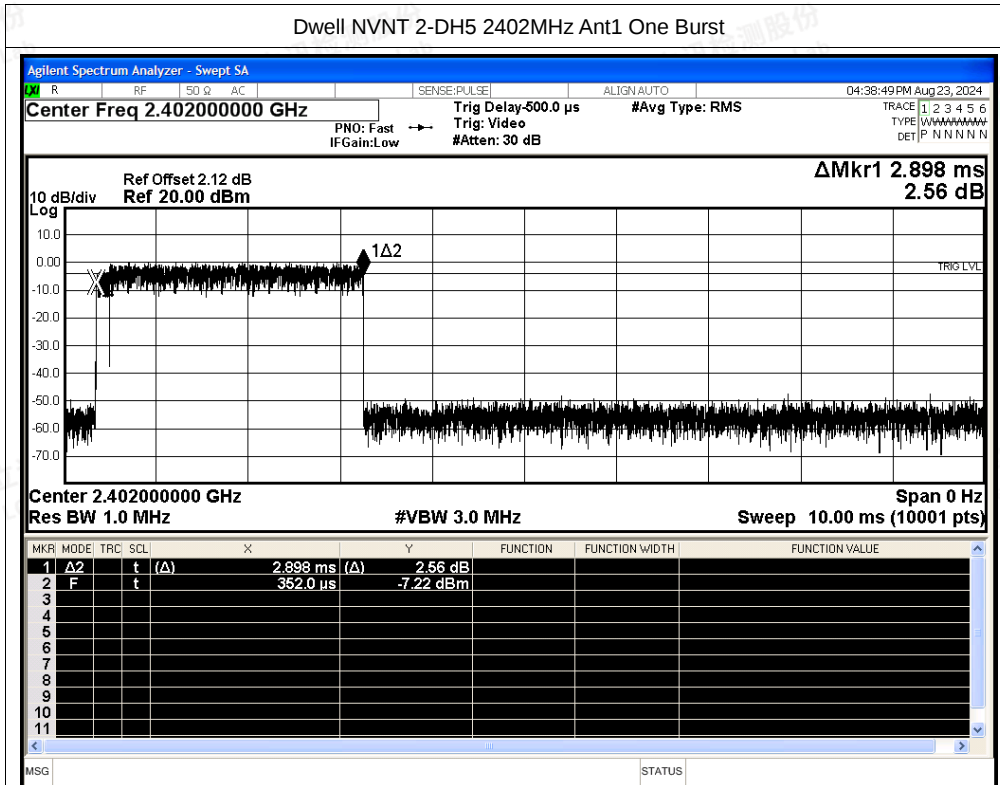


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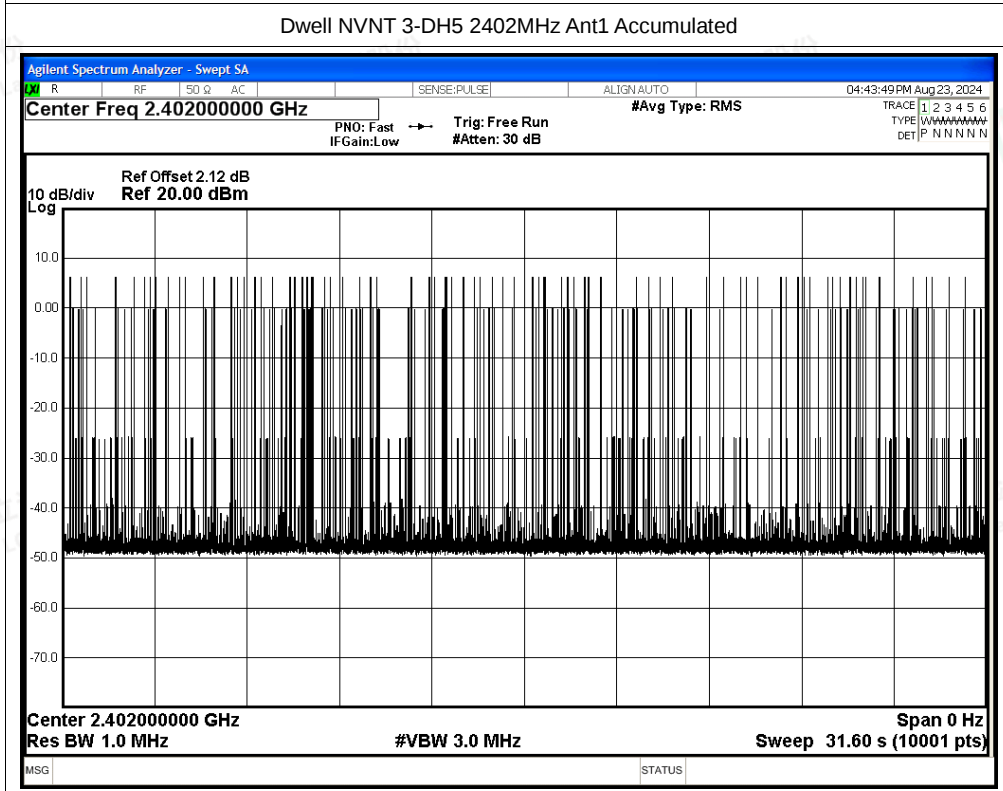
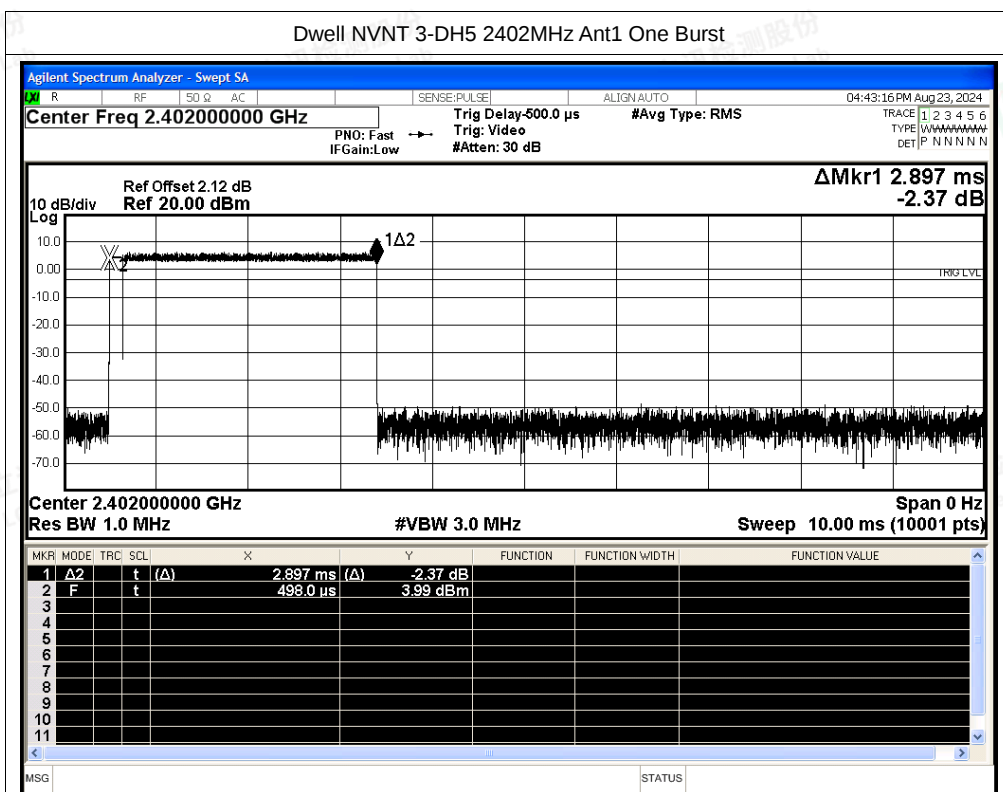


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A.5 Number of Hopping Channel

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

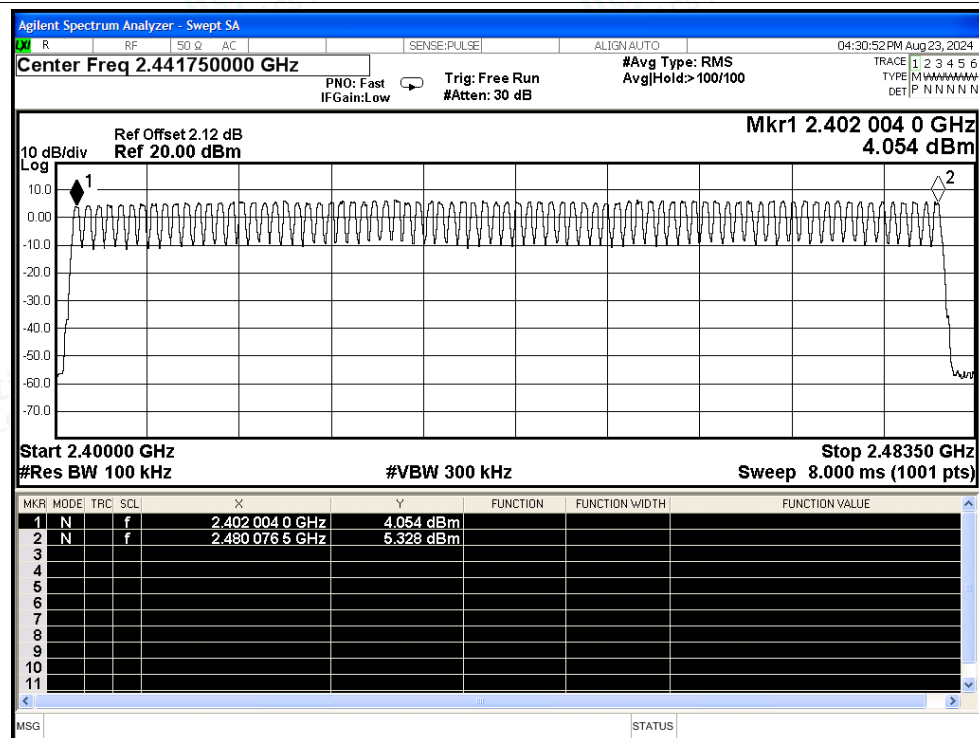


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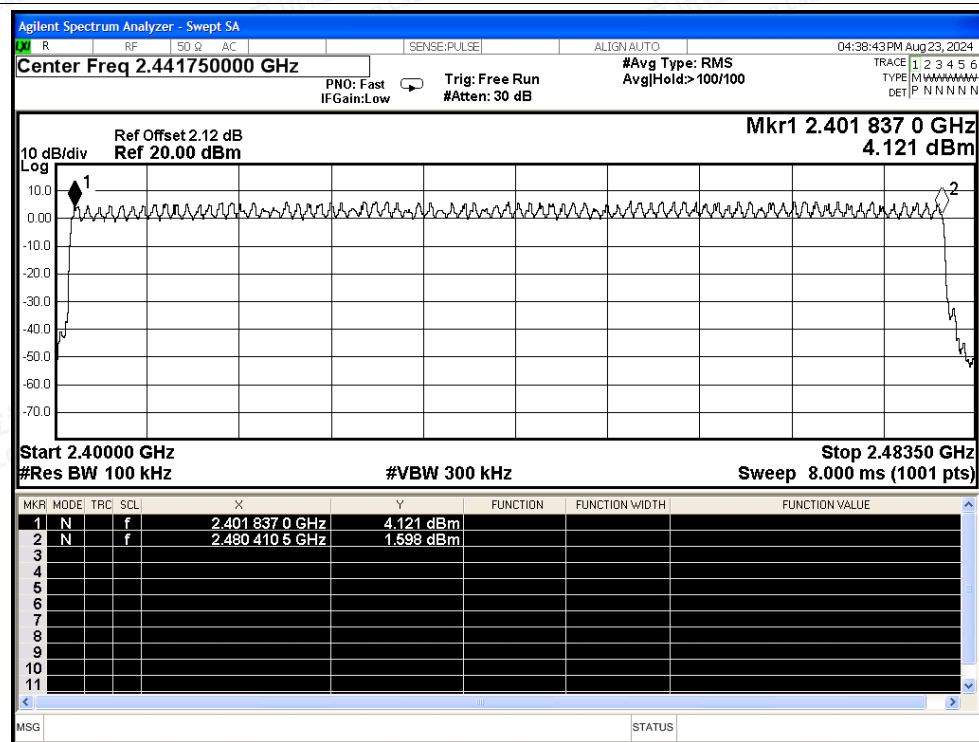


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

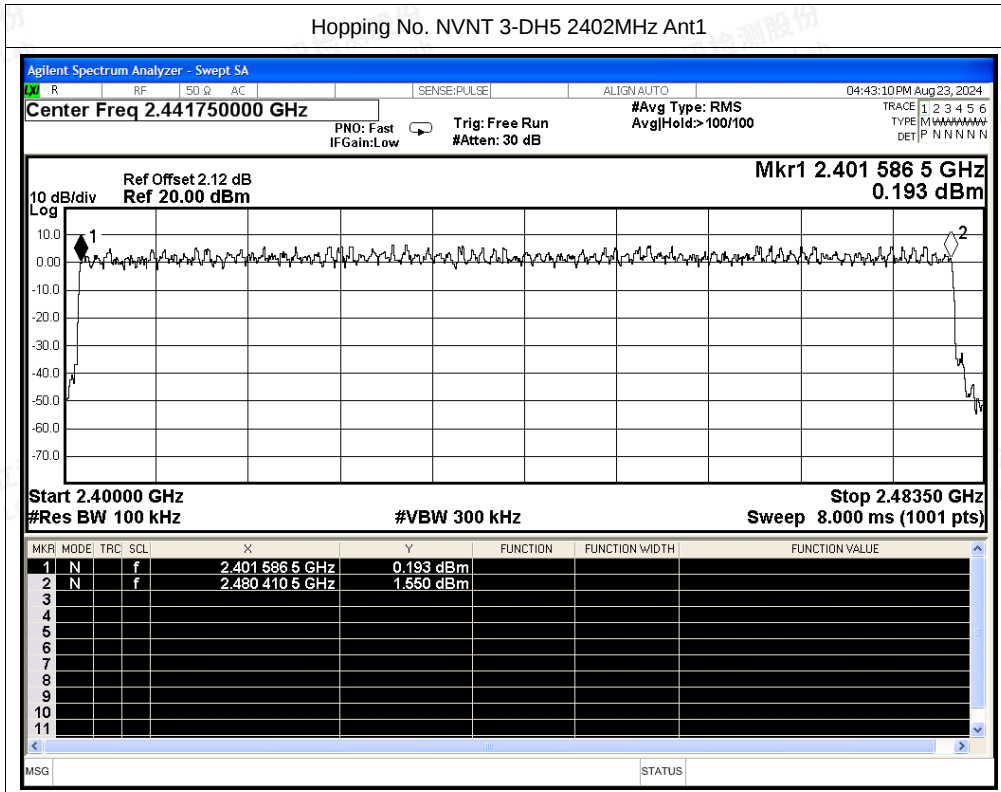


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.76	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.32	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.92	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.66	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.99	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.48	-20	Pass

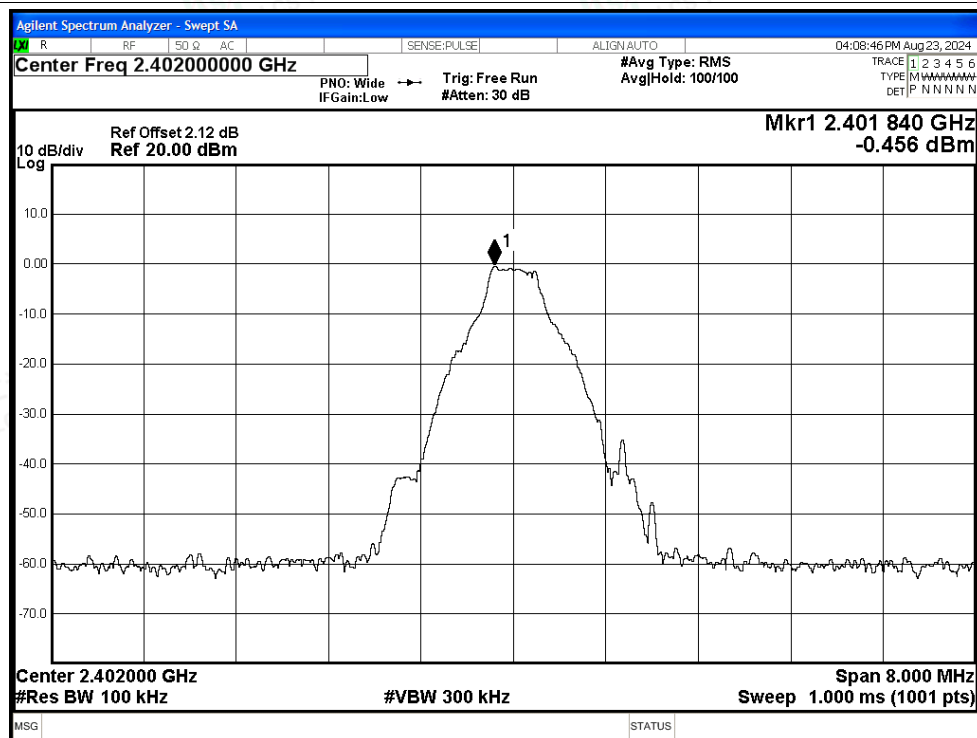


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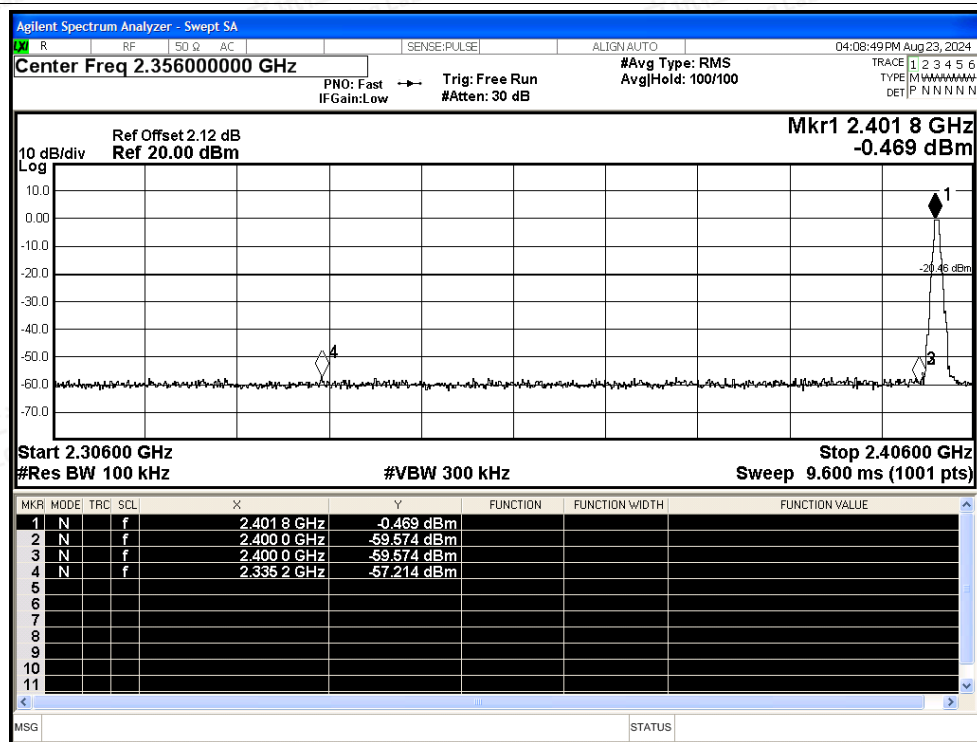


Test Graphs

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



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



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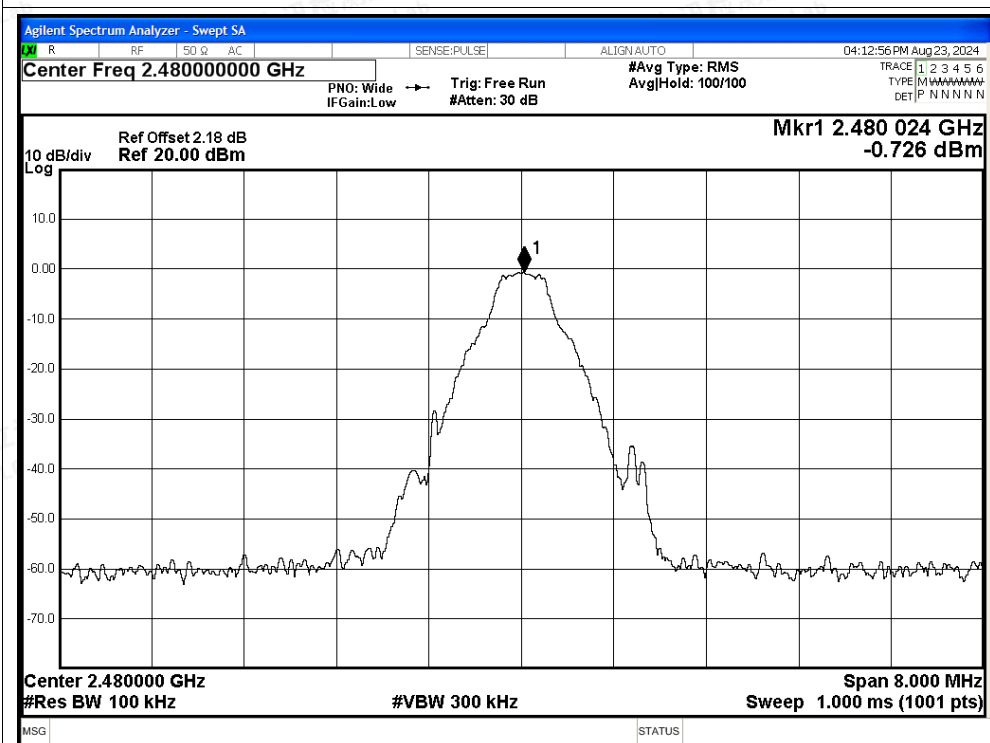
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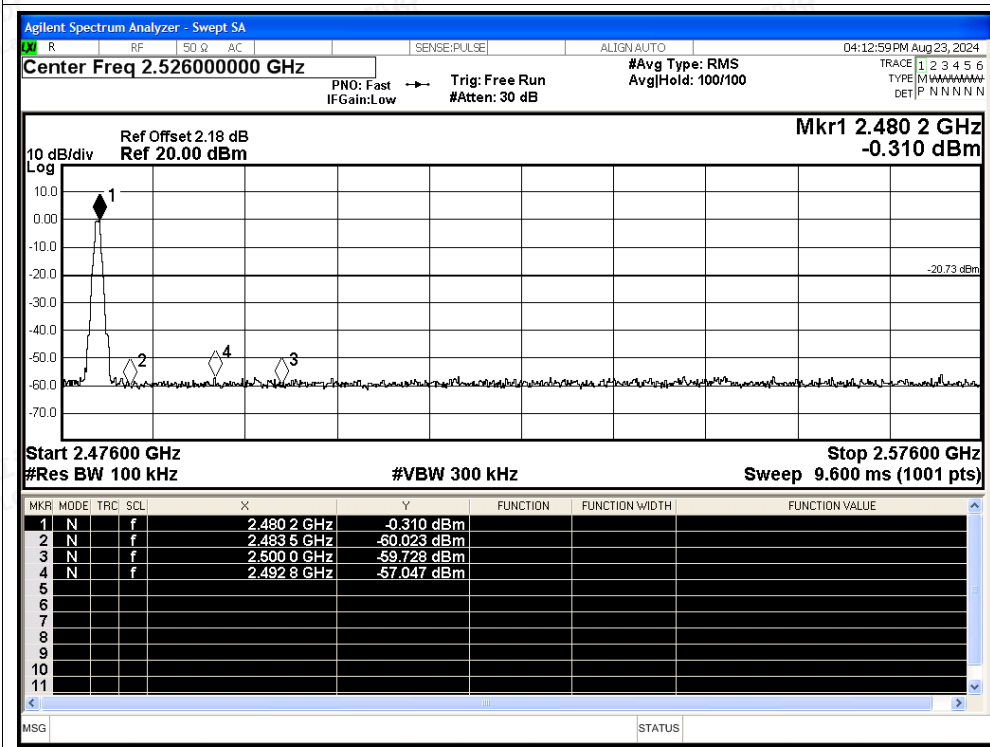
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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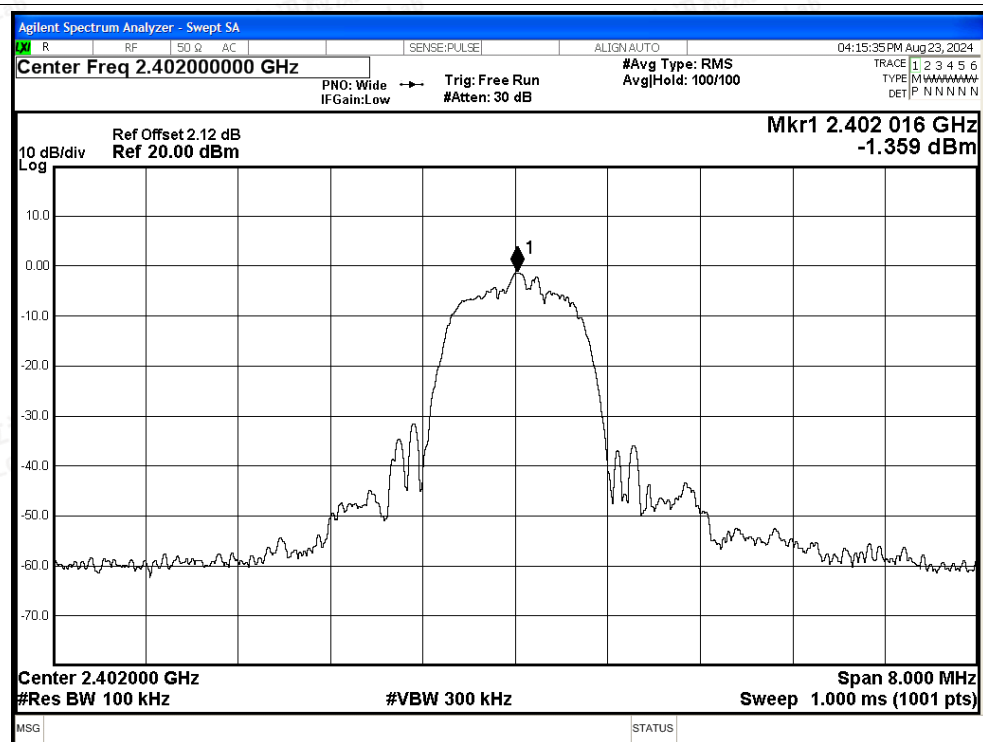
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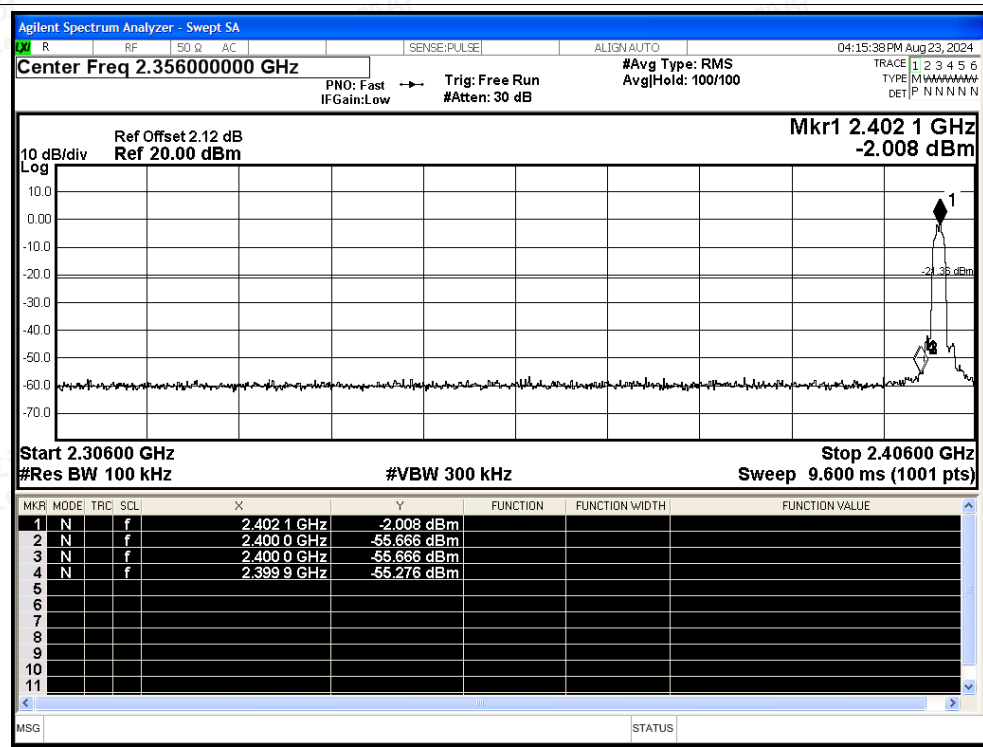
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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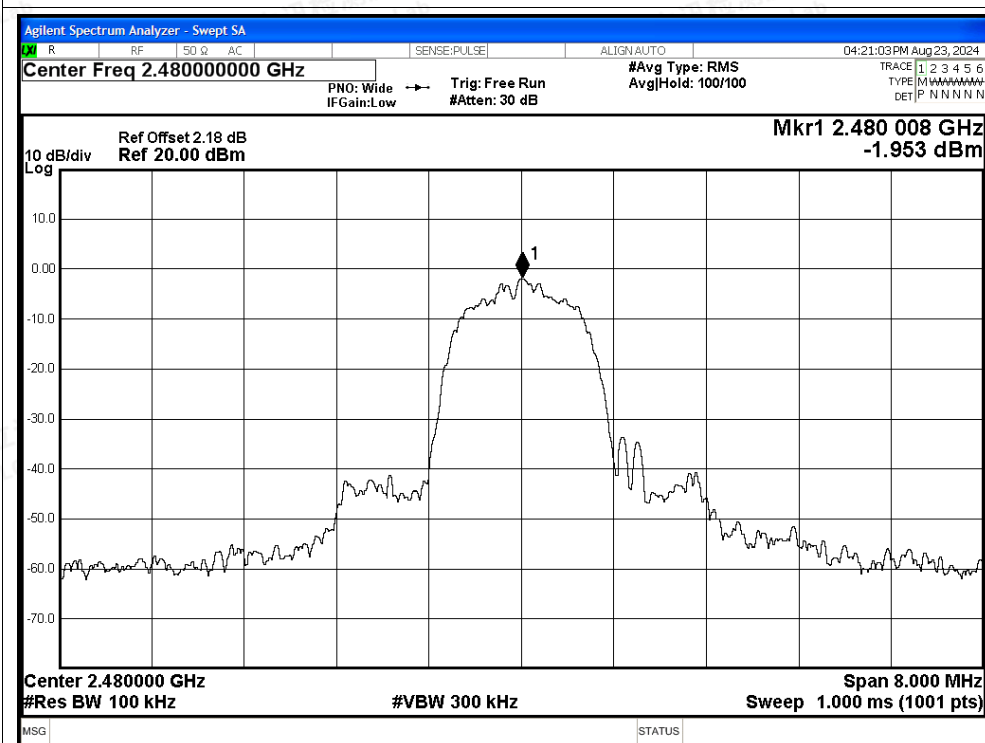
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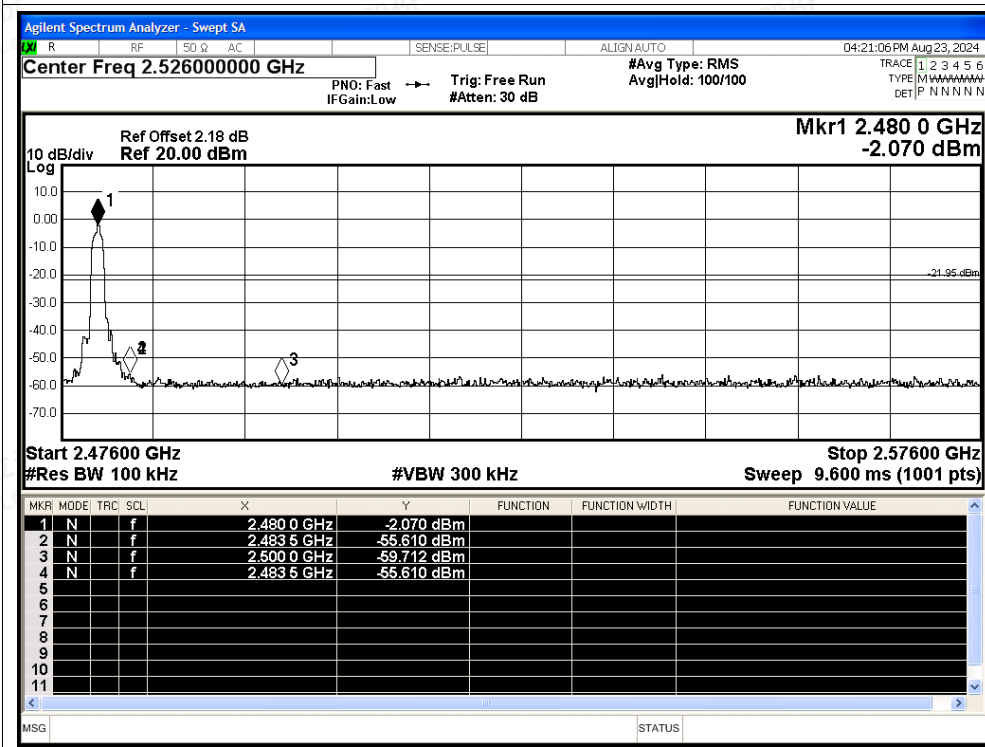
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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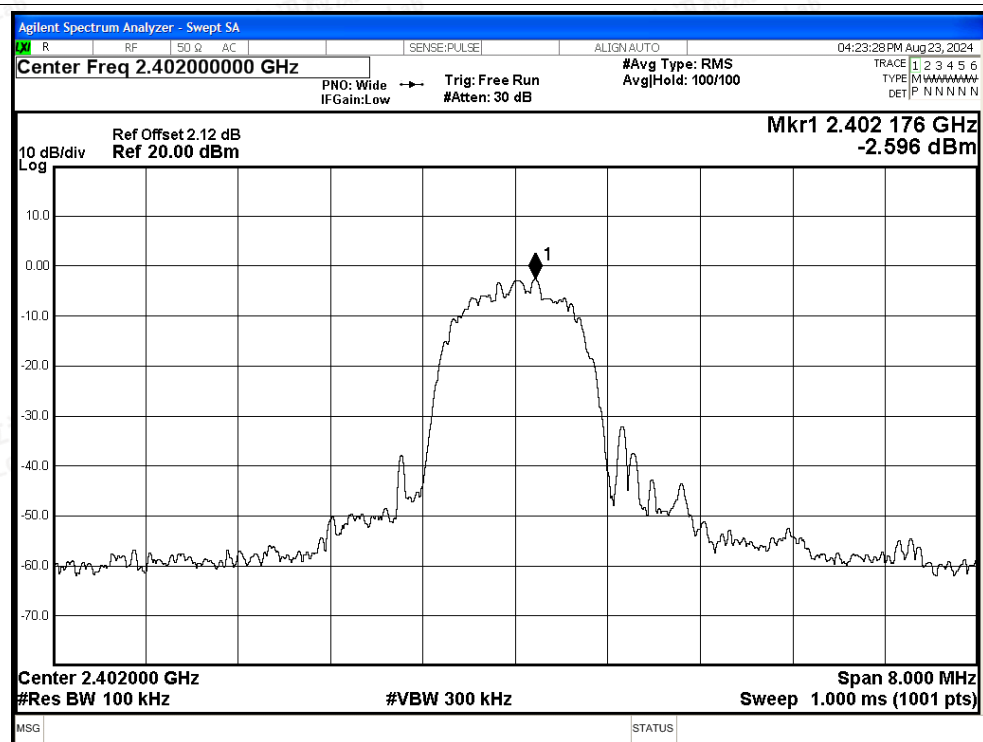
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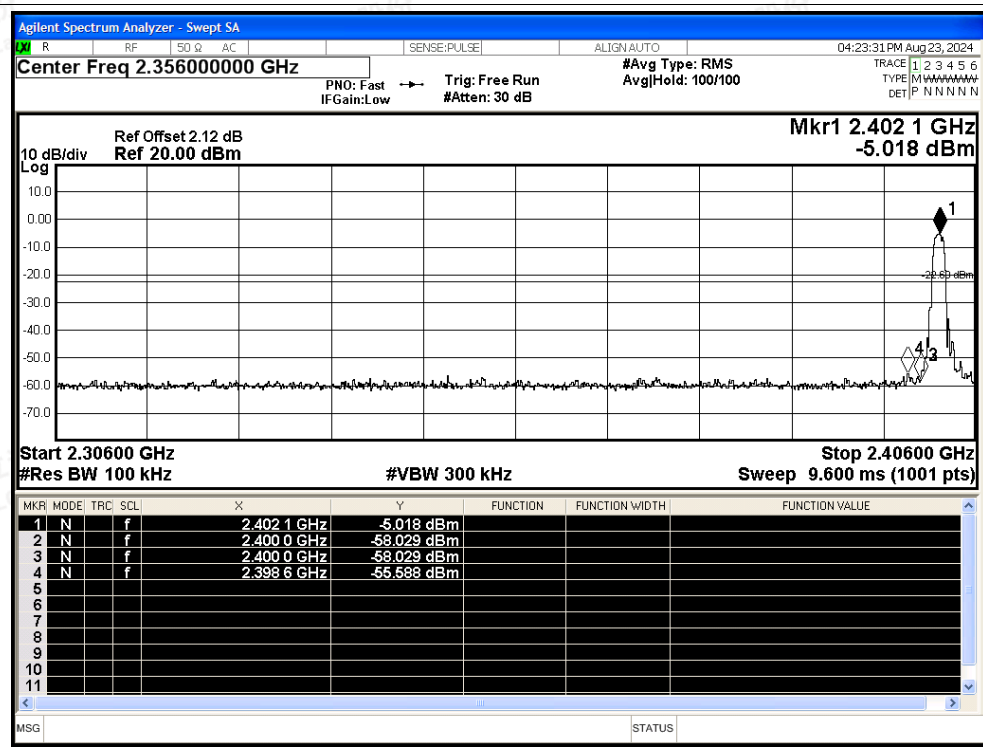
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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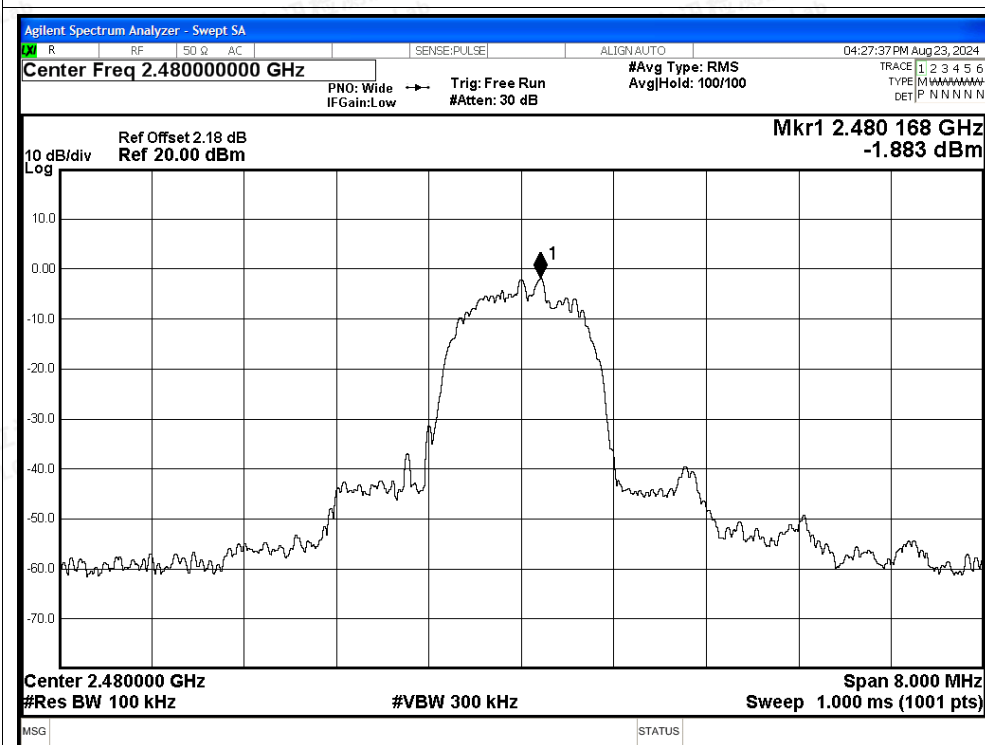
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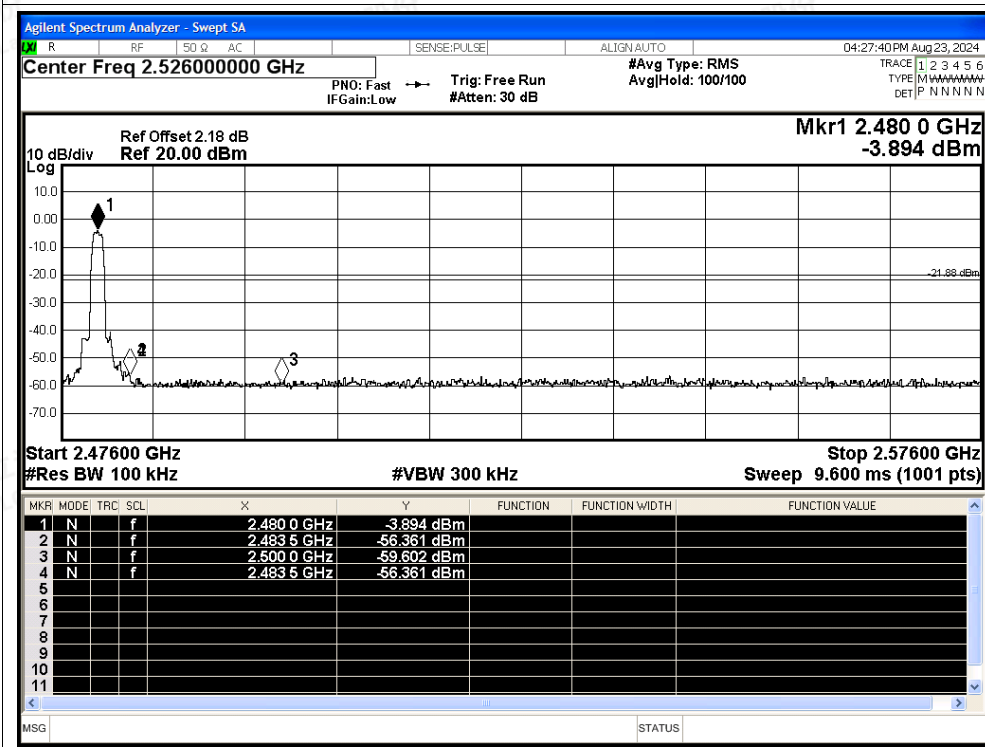
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-60.45	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-61.31	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-59.72	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-60.4	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-60.57	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-58.33	-20	Pass

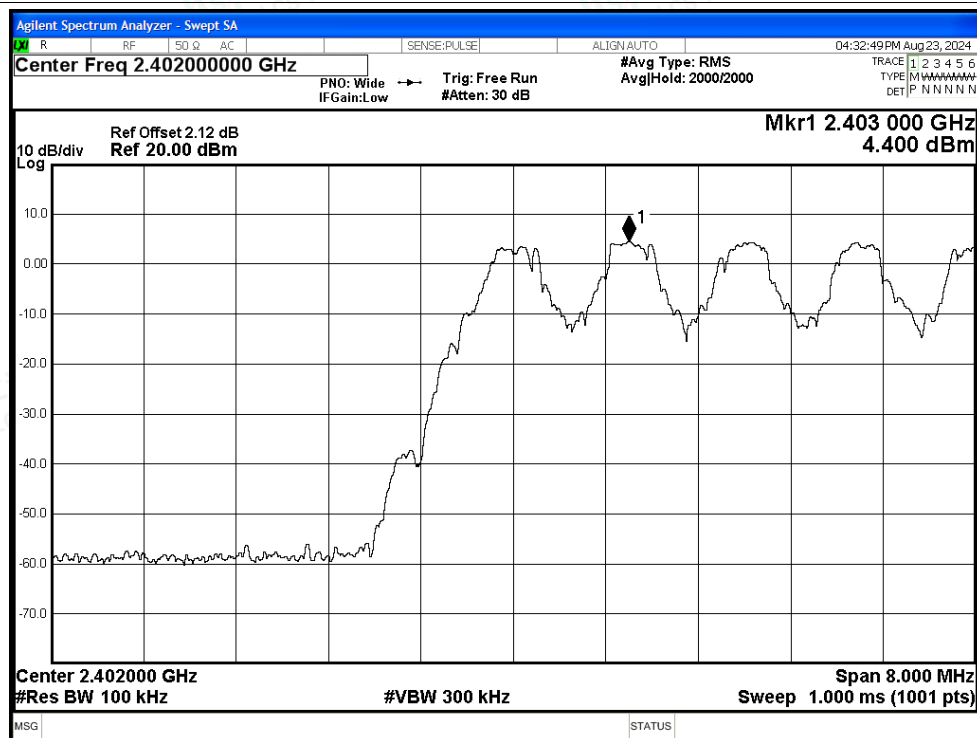


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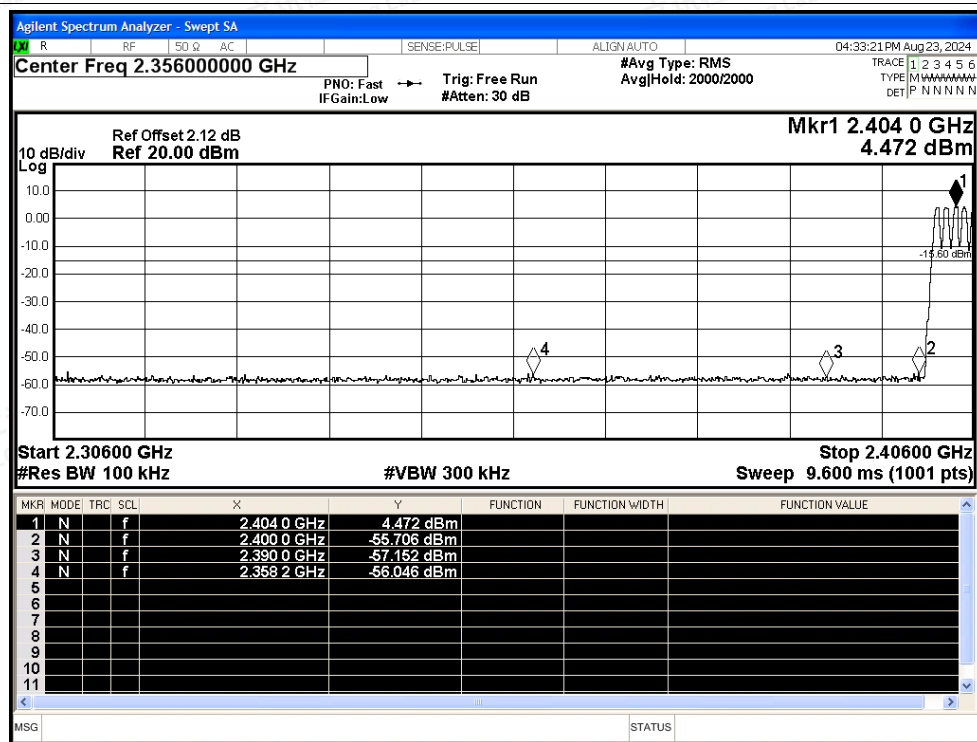


Test Graphs

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



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



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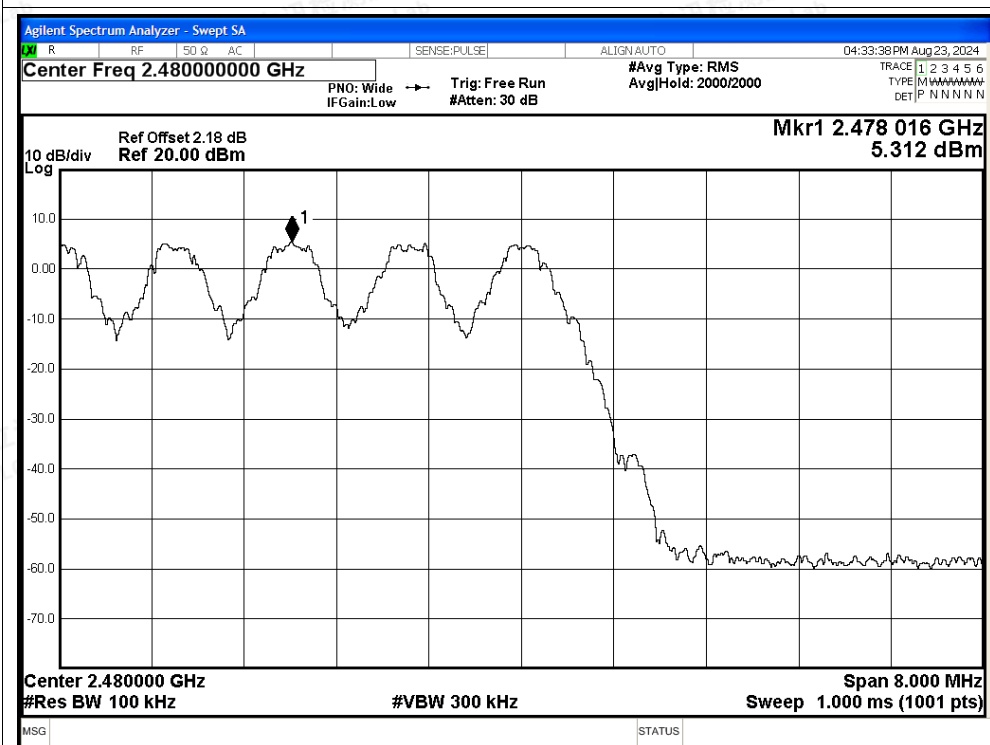
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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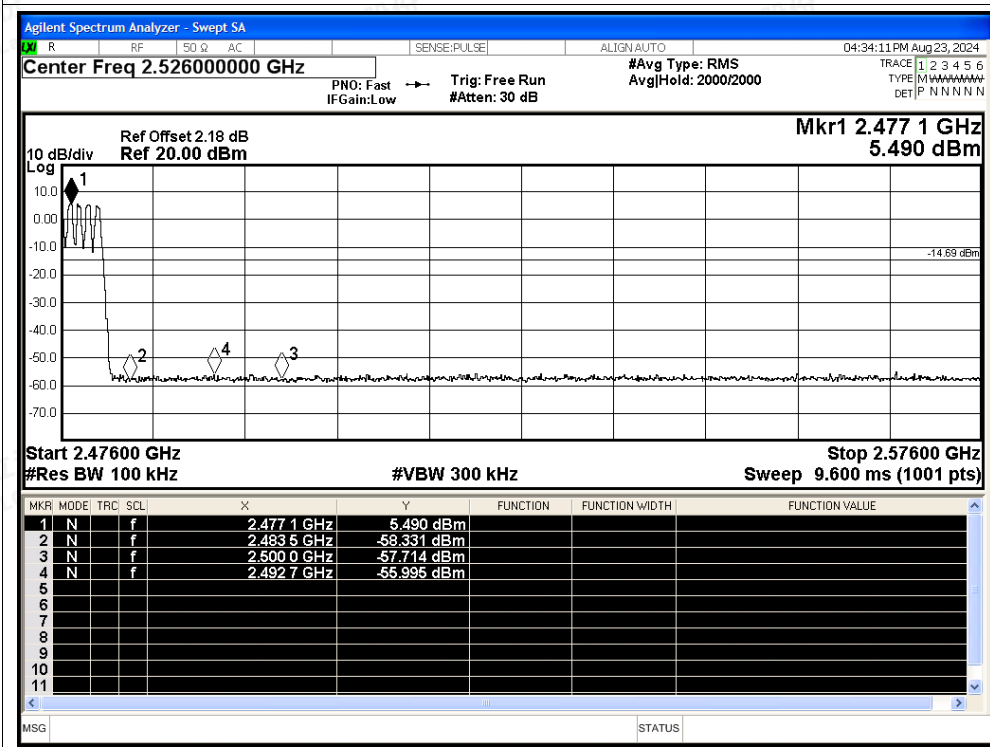
Scan code to check authenticity



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

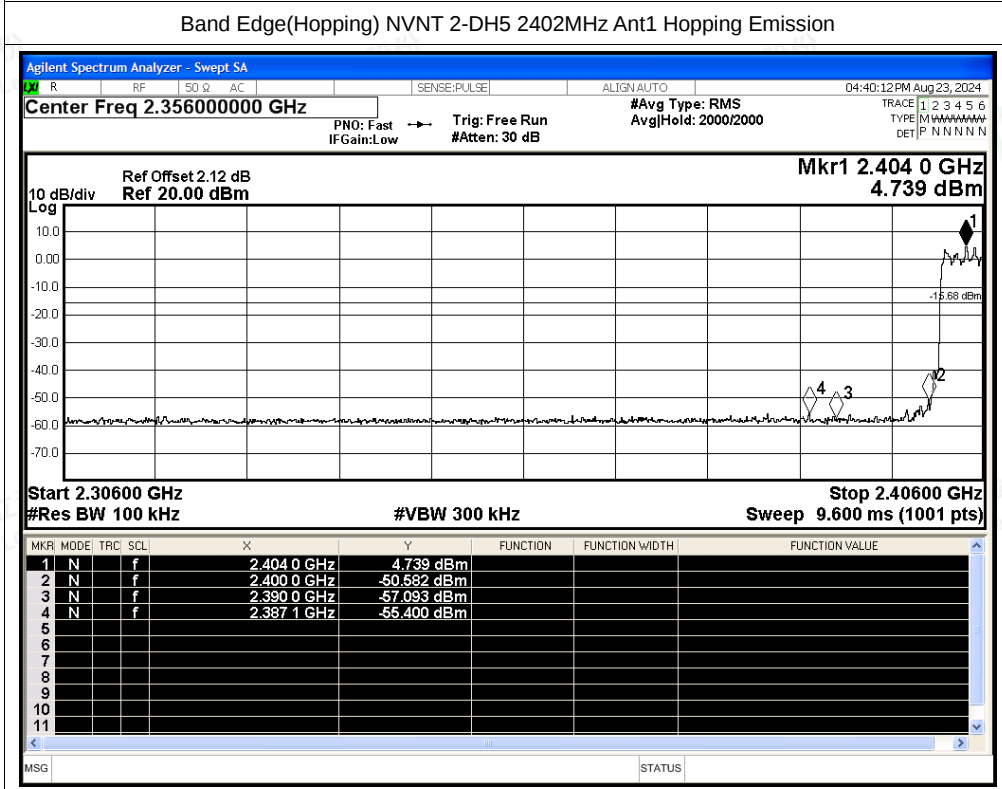
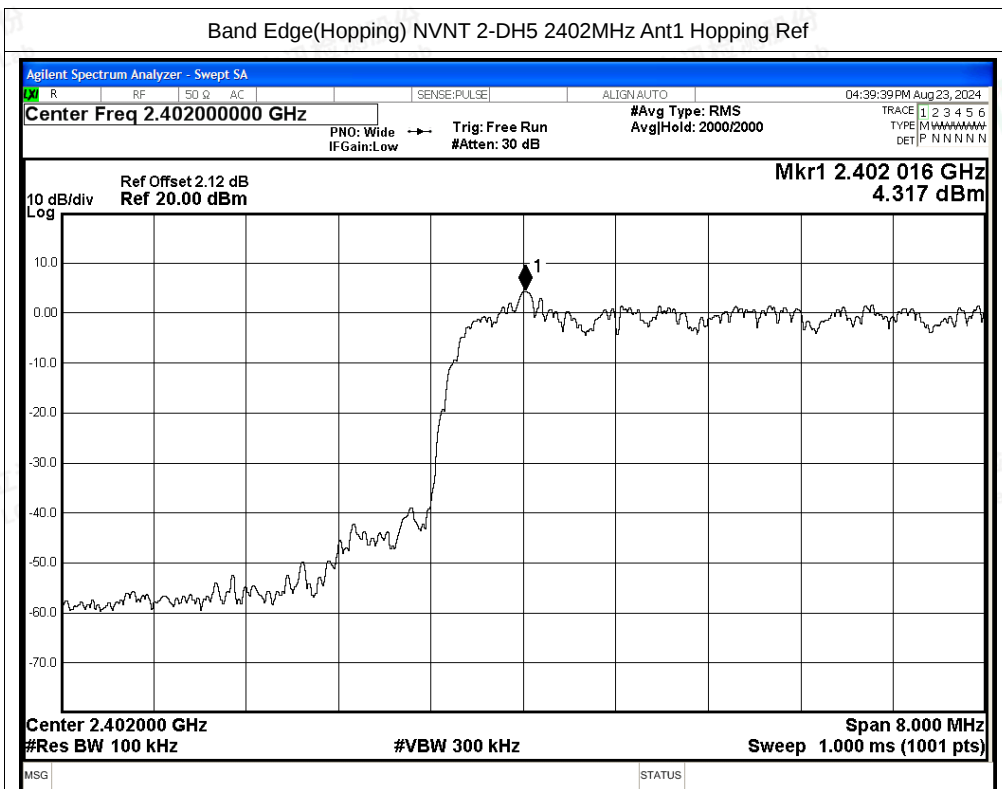


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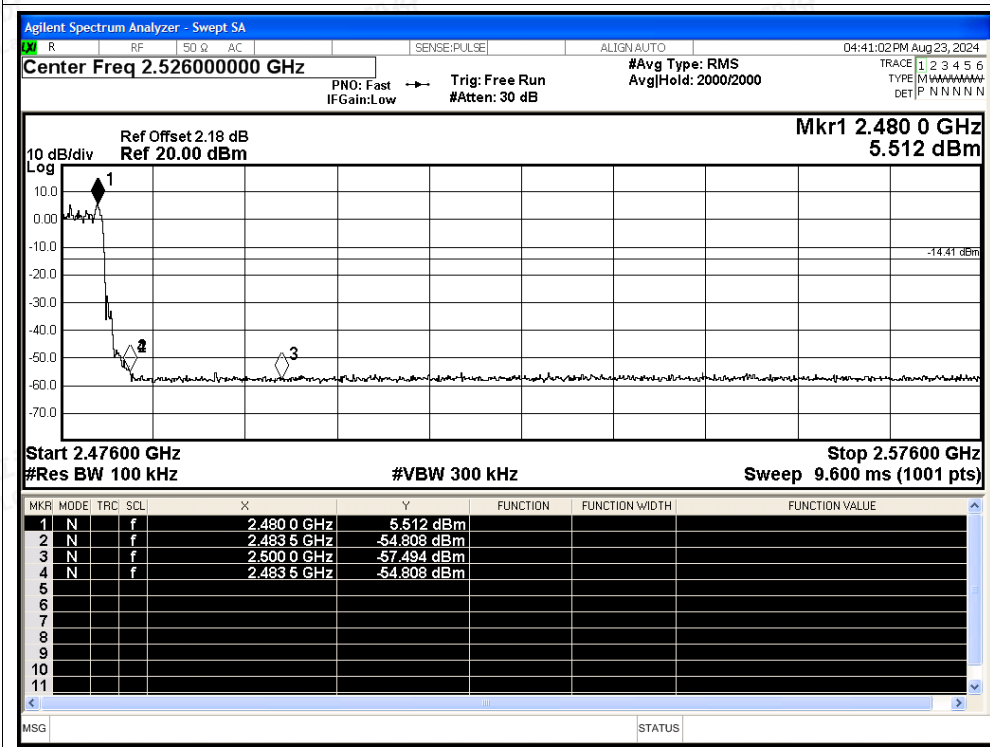
Scan code to check authenticity



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

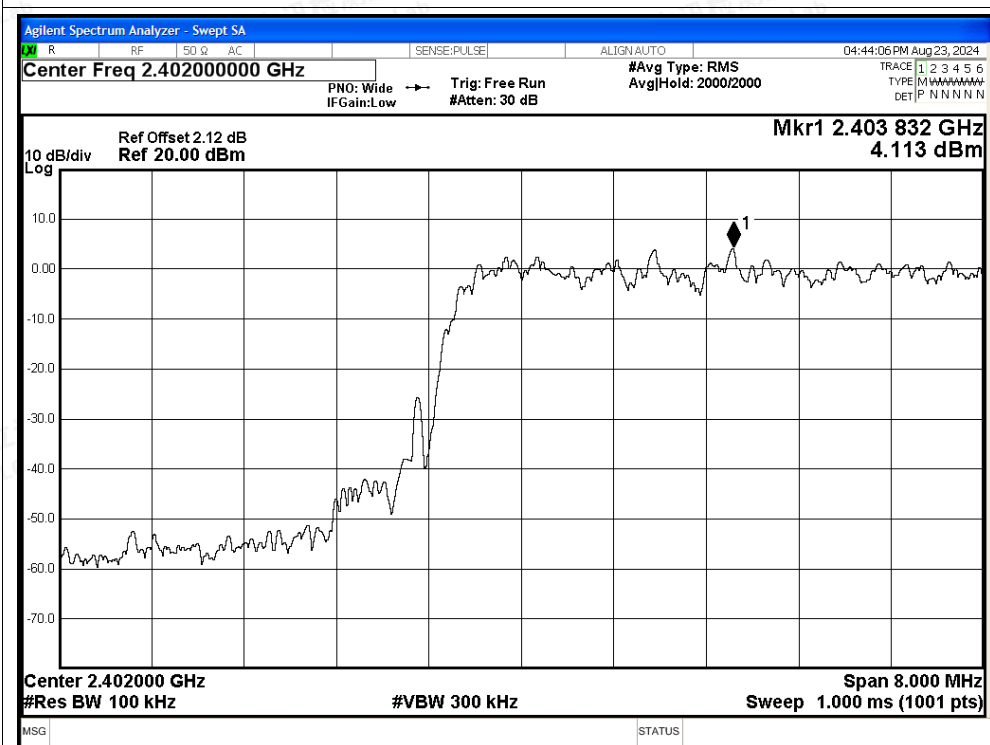
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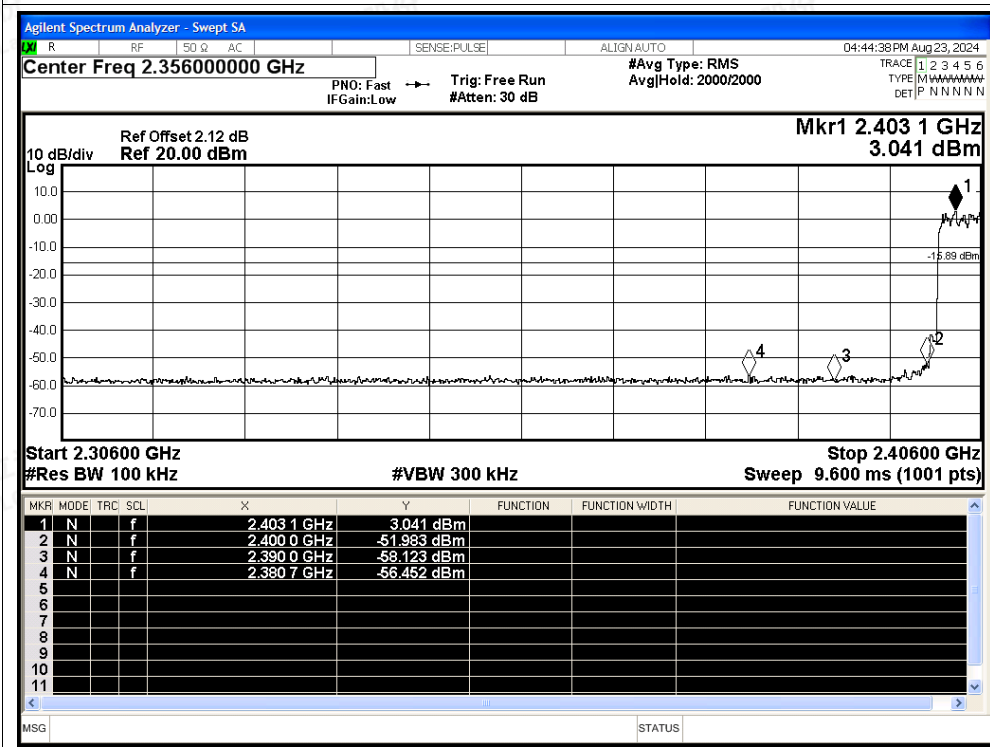
Scan code to check authenticity



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

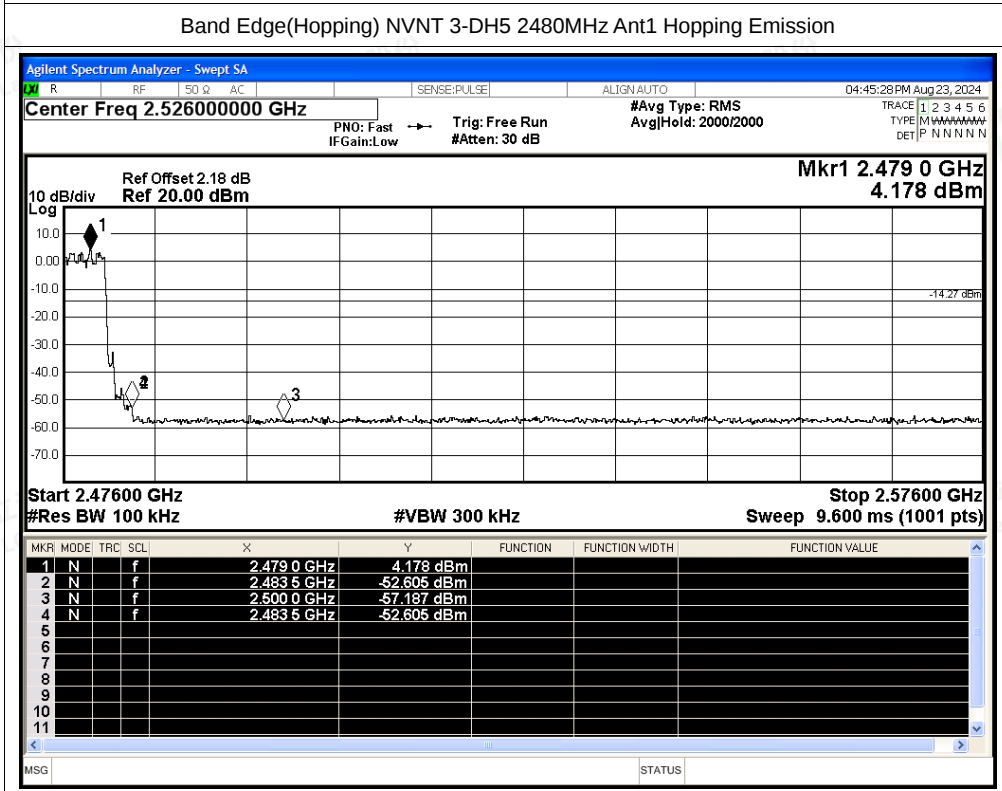
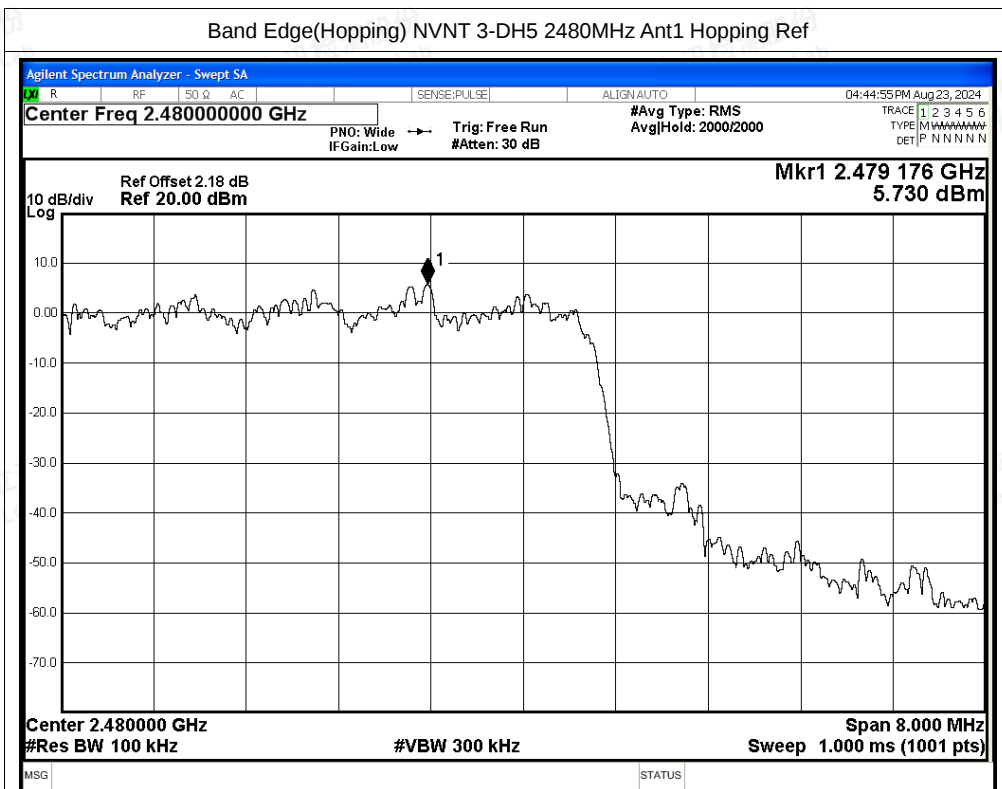


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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.56	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.7	-20	Pass
NVNT	1-DH5	2480	Ant1	-50.85	-20	Pass
NVNT	2-DH5	2402	Ant1	-43.29	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.32	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.45	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.43	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.61	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.51	-20	Pass

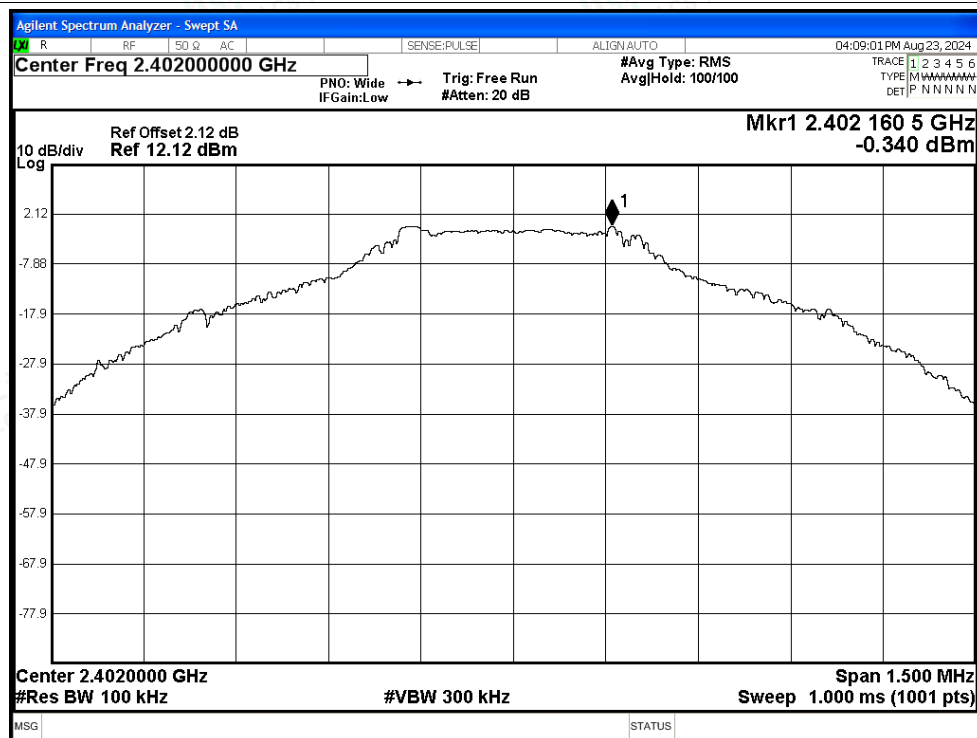


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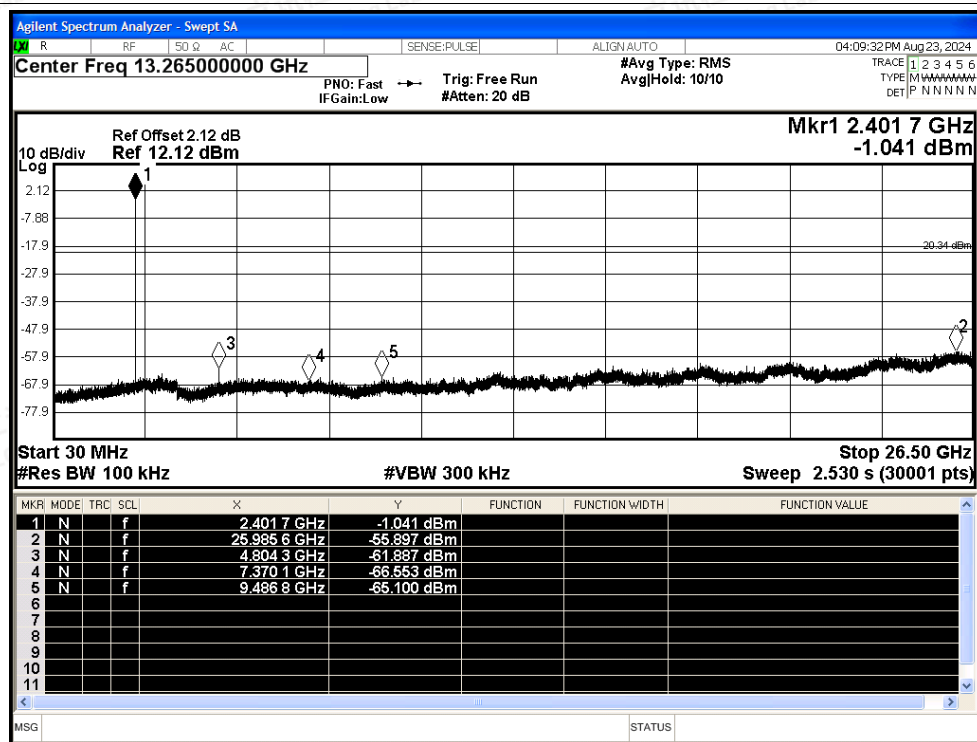


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

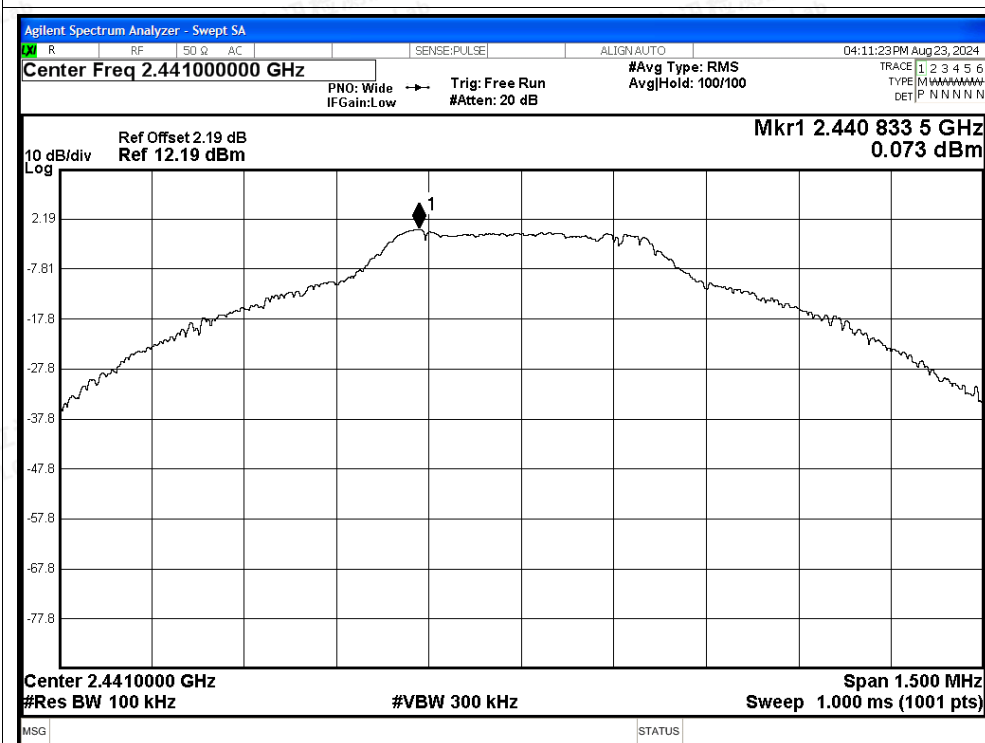
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

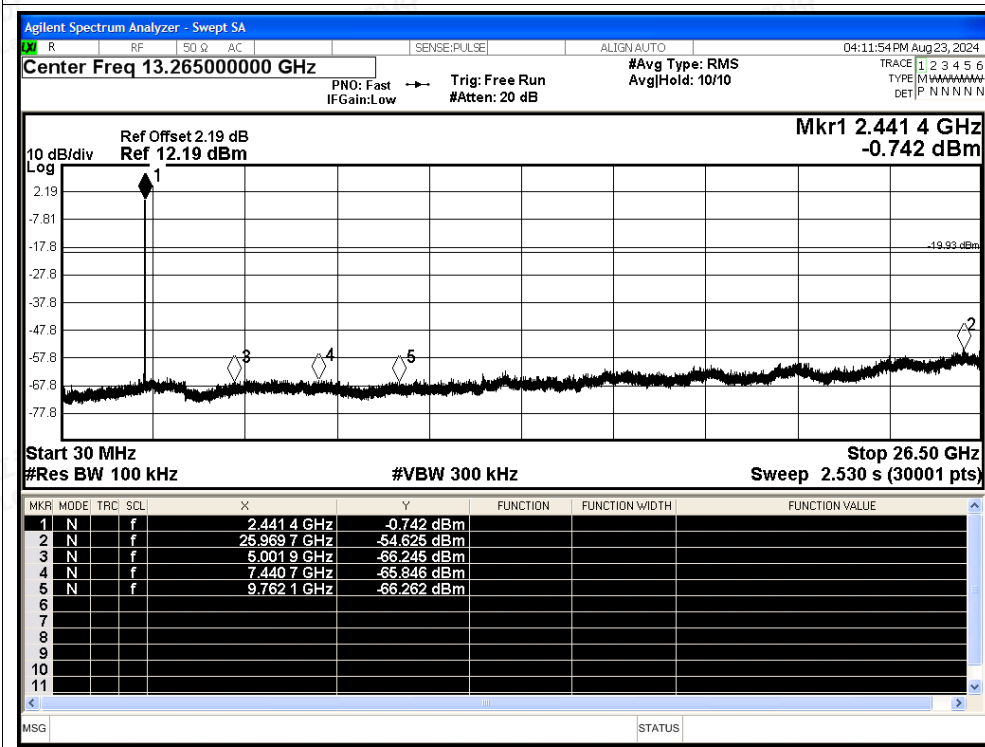
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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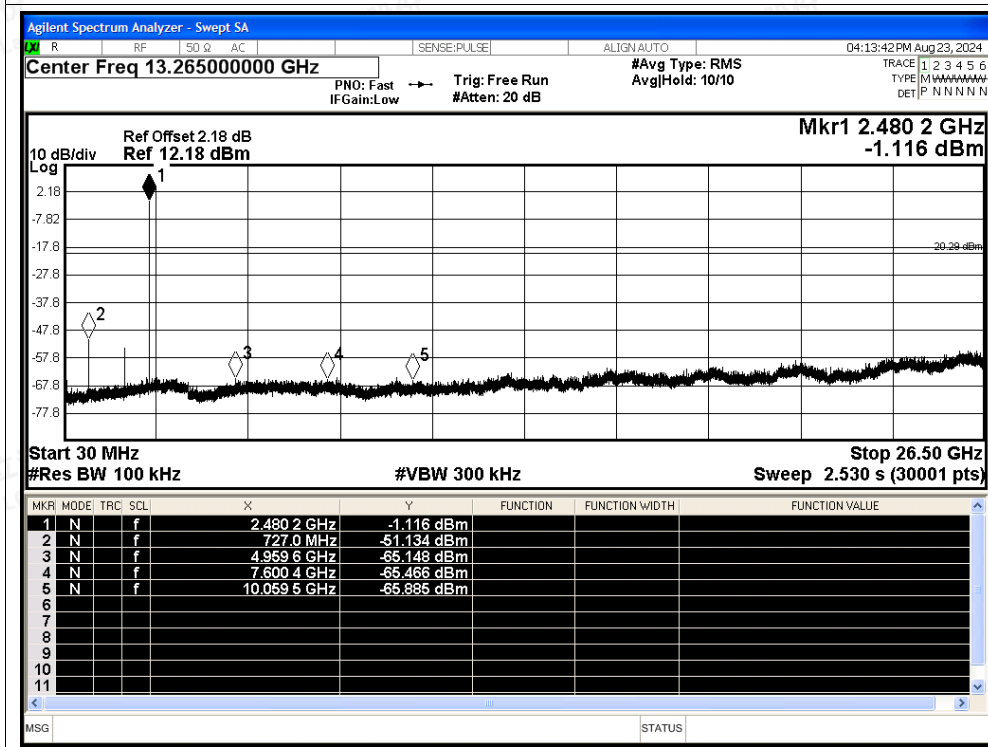
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

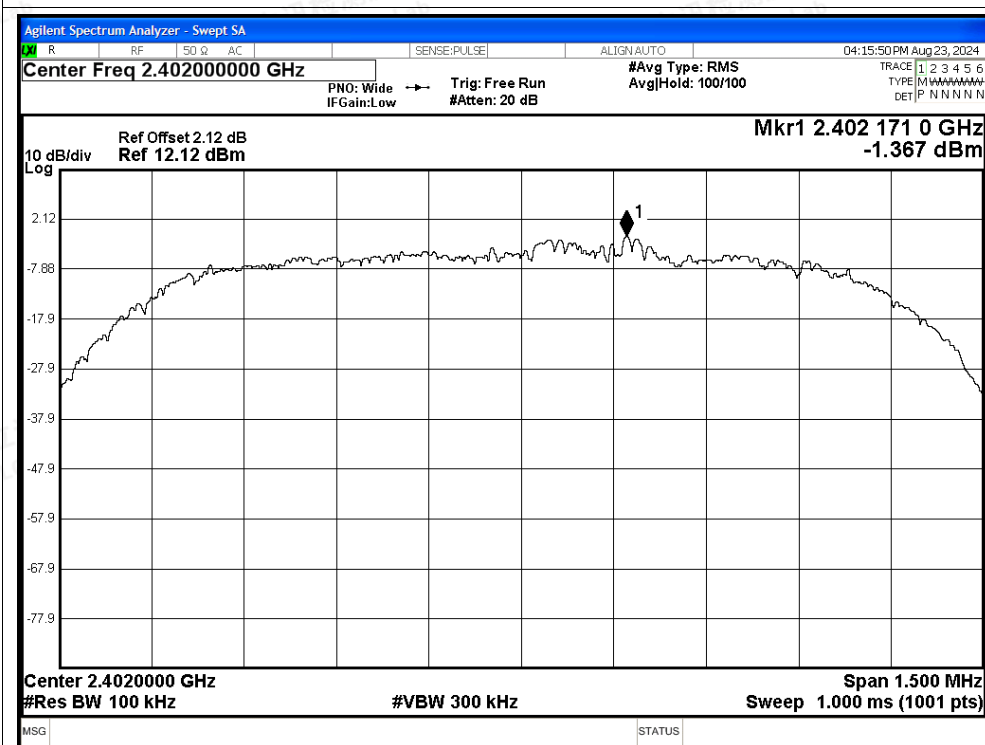
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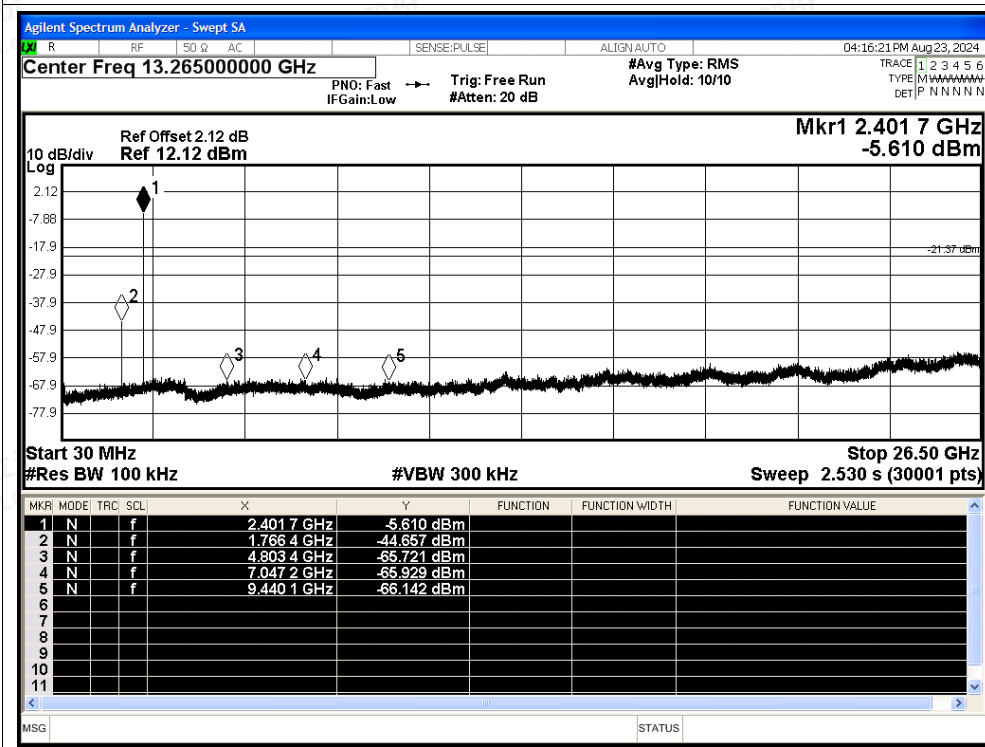
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



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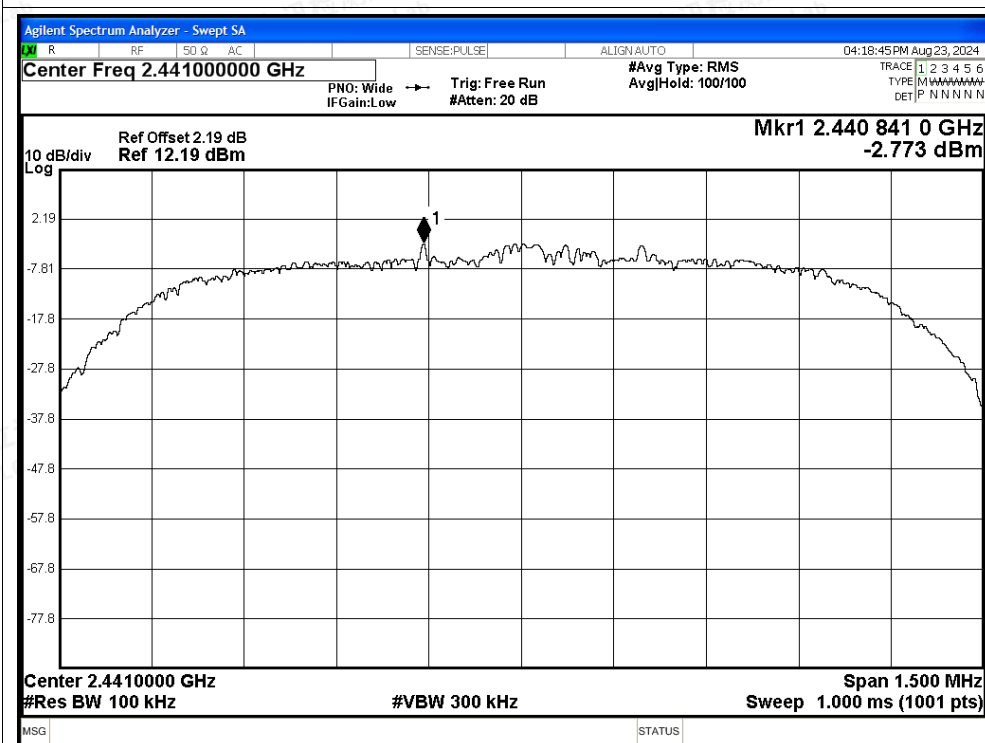
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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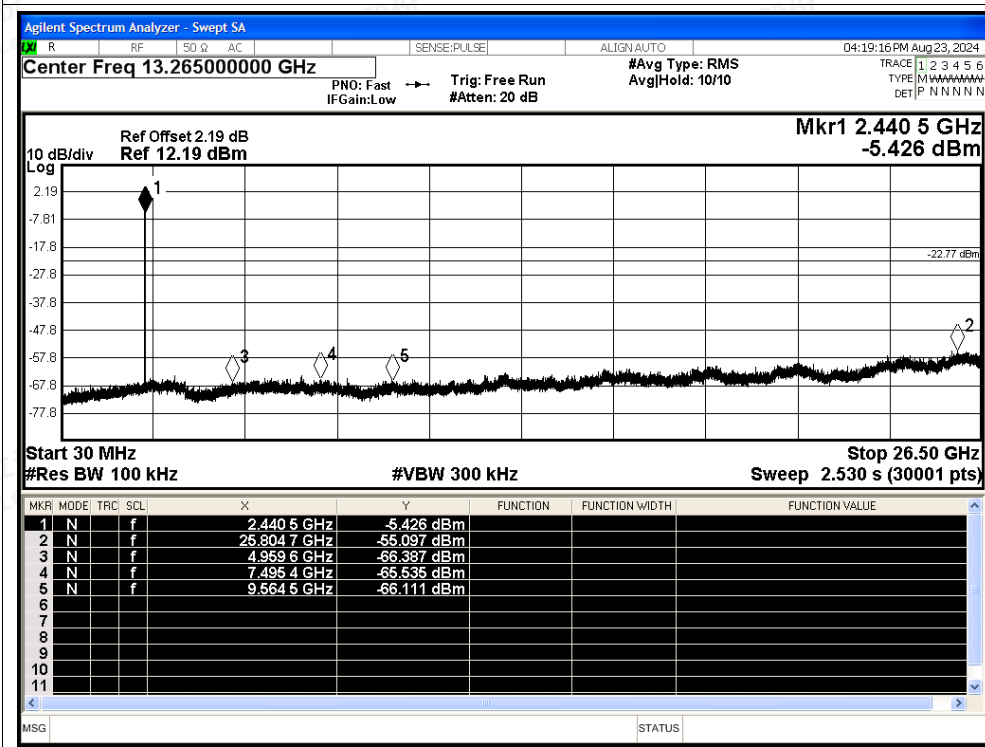
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

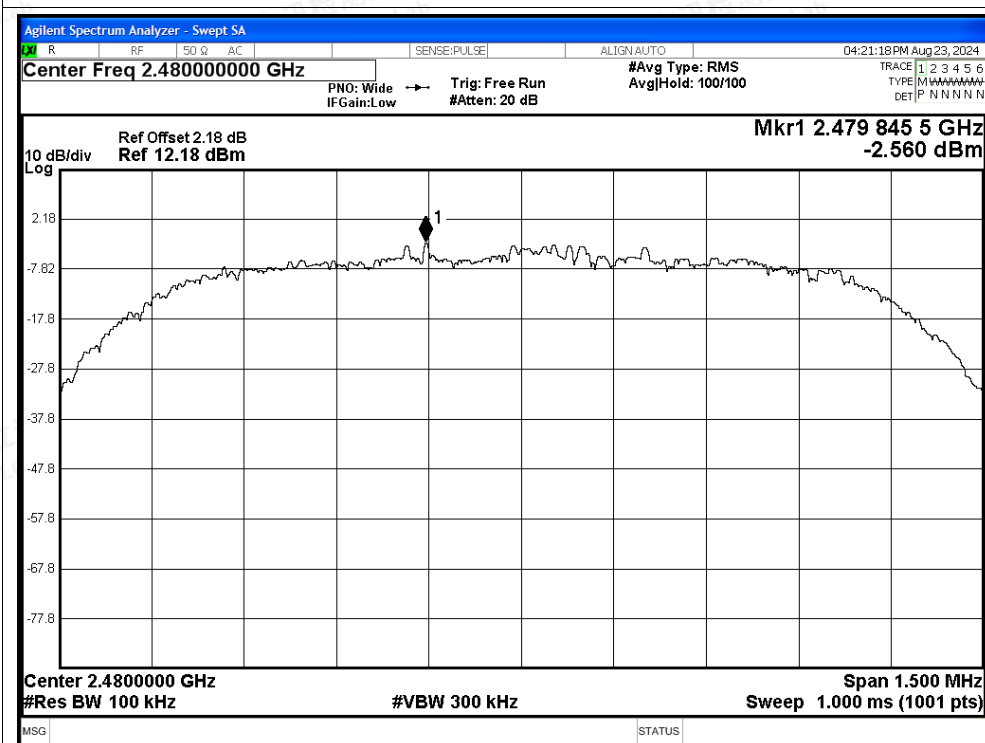
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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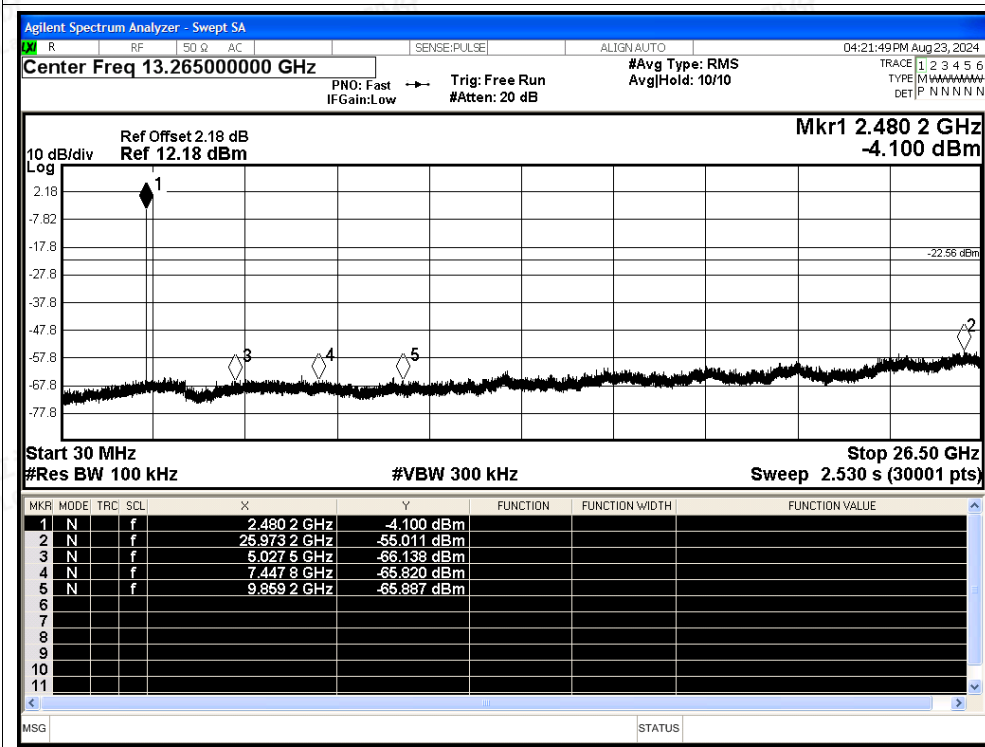
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

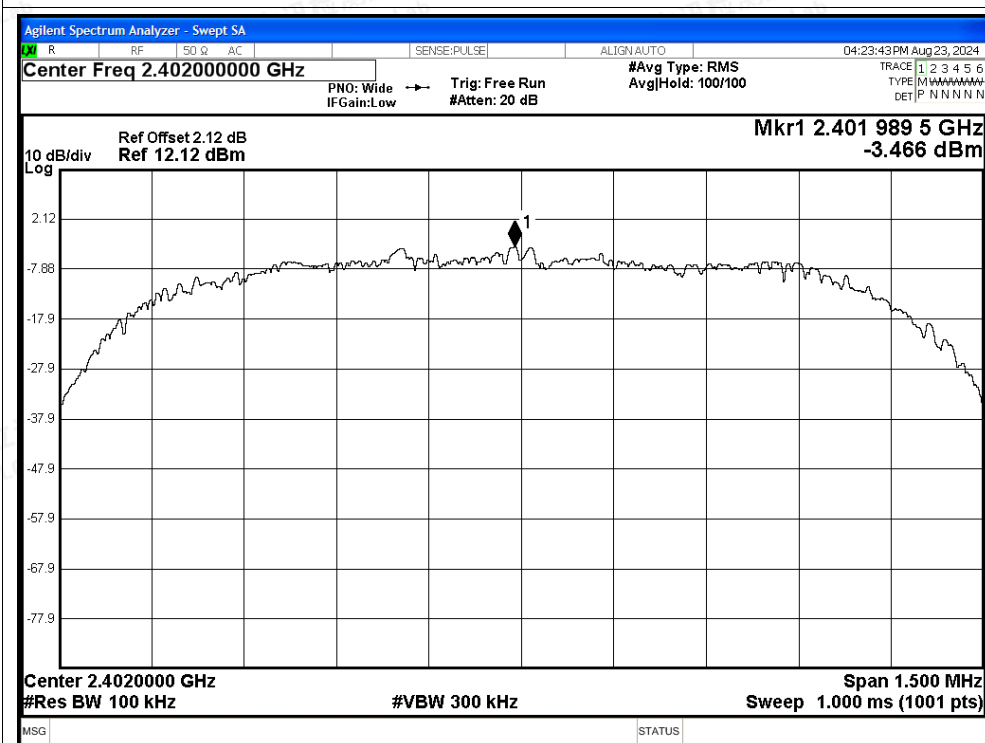
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

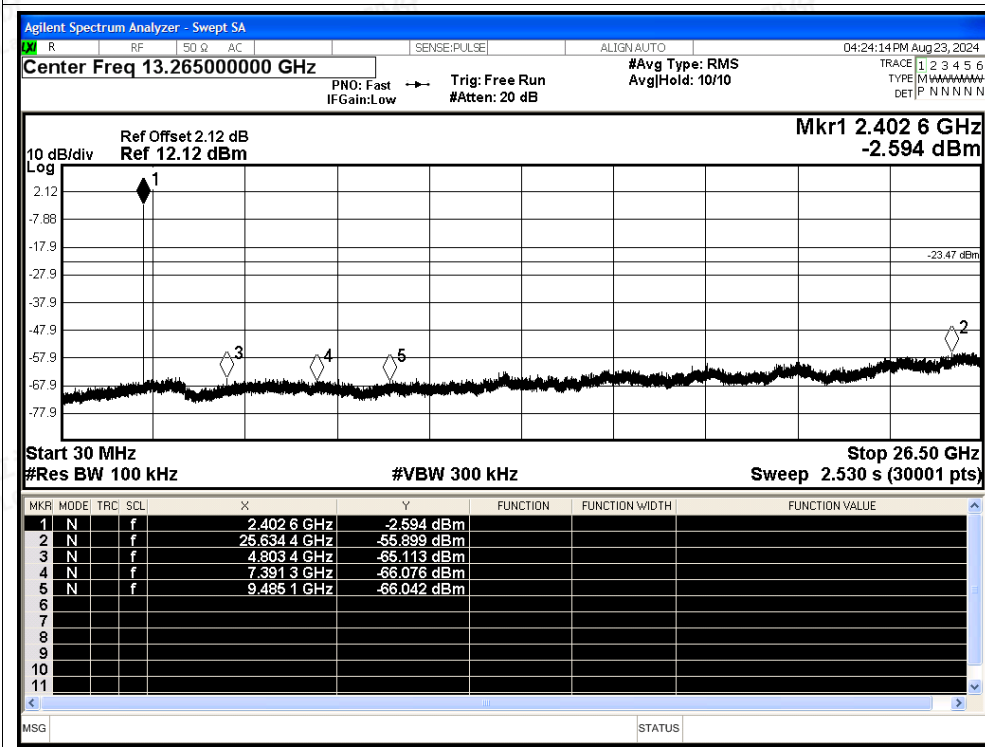
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

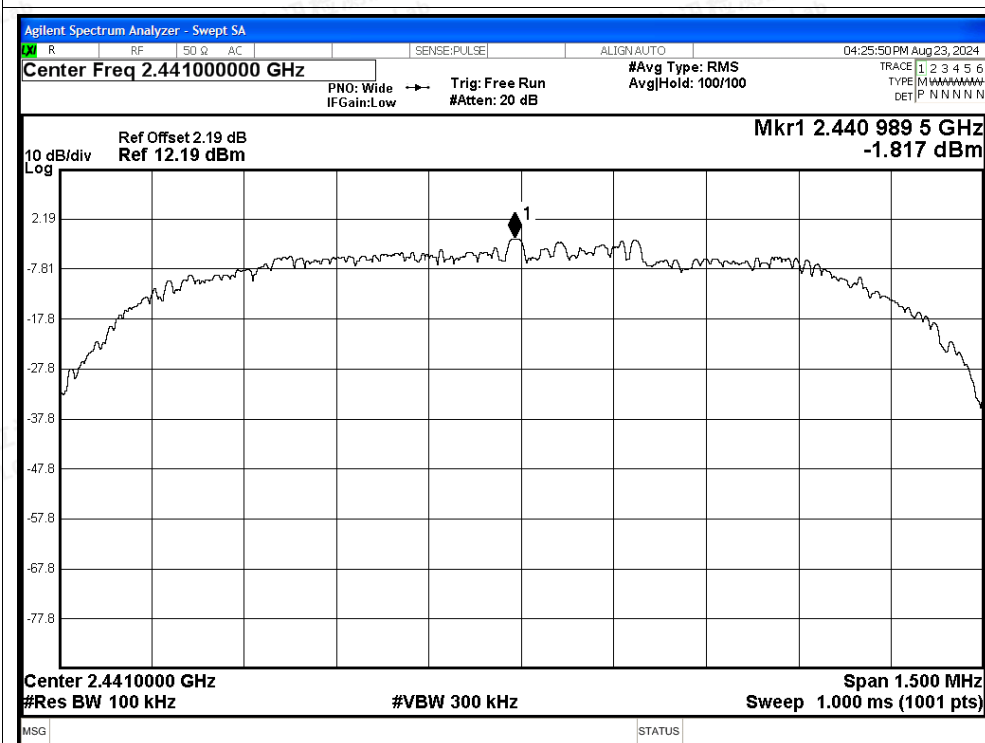
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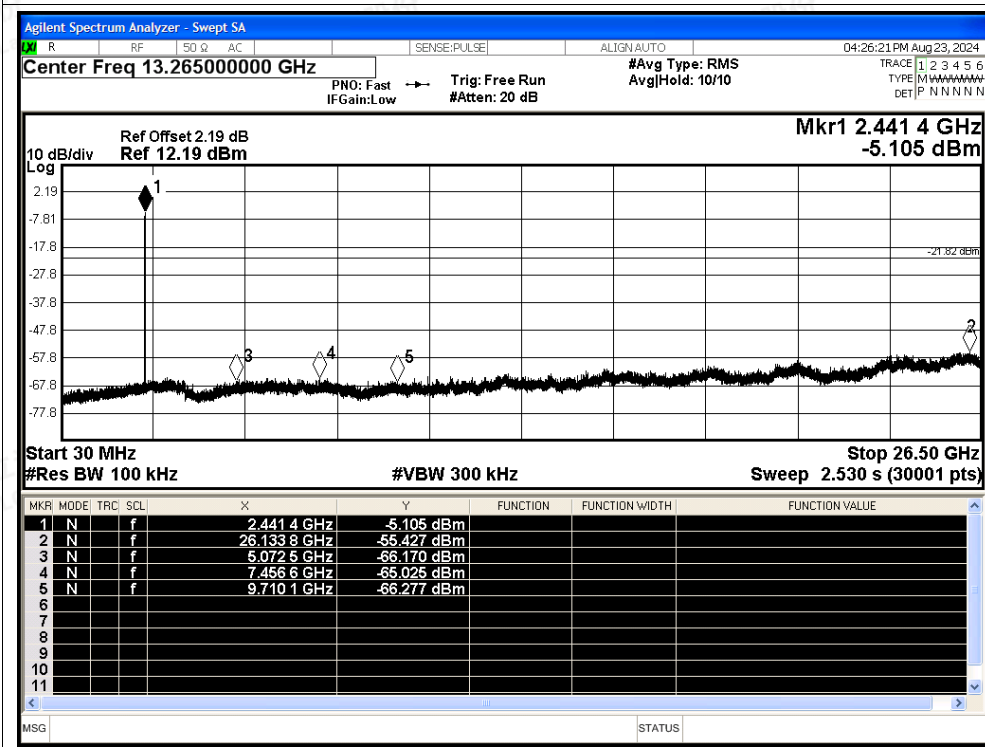
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



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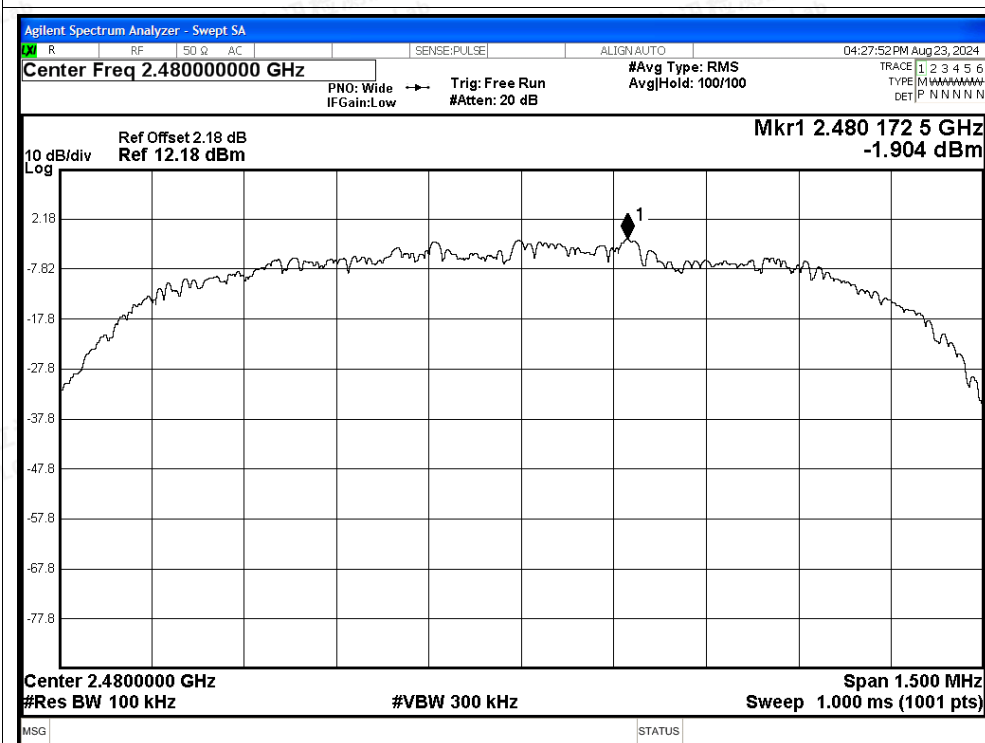
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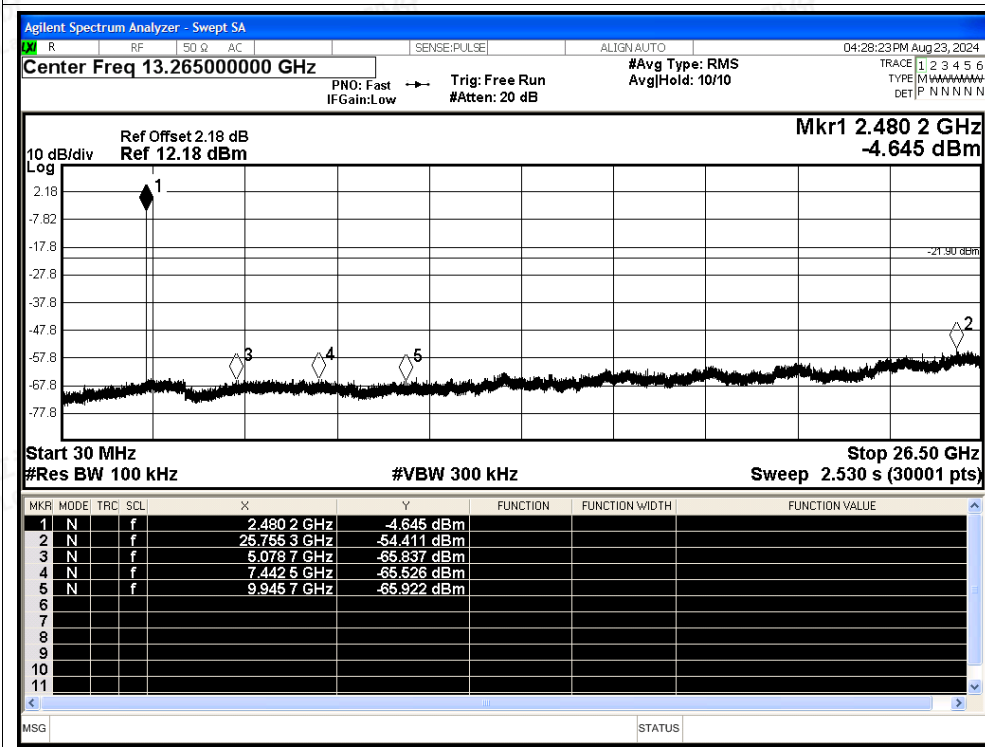
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2441	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35

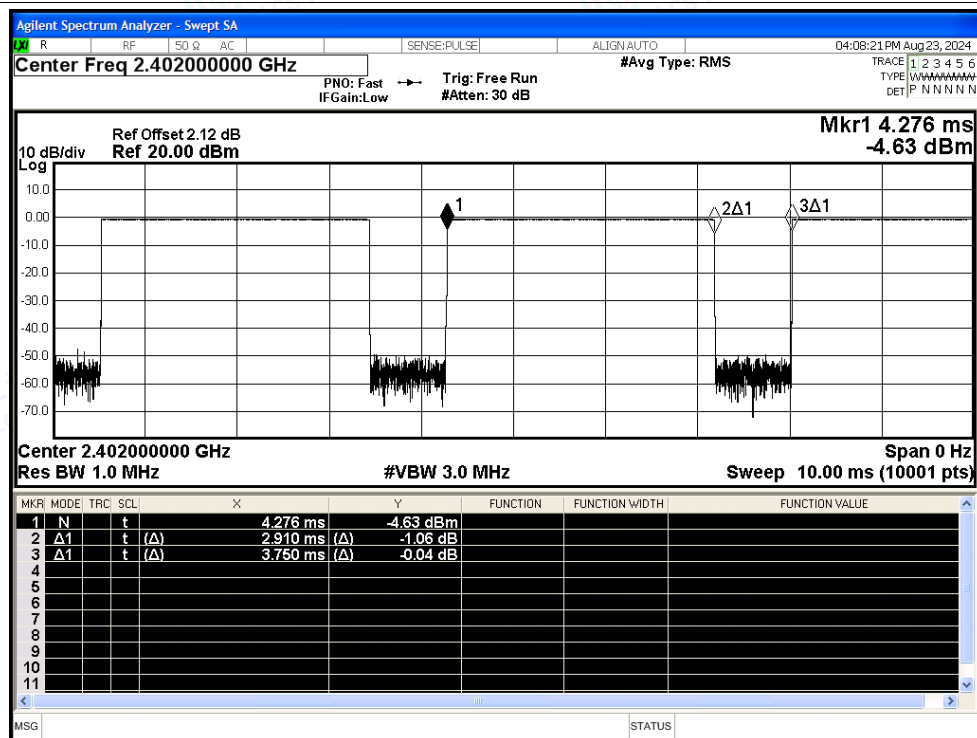


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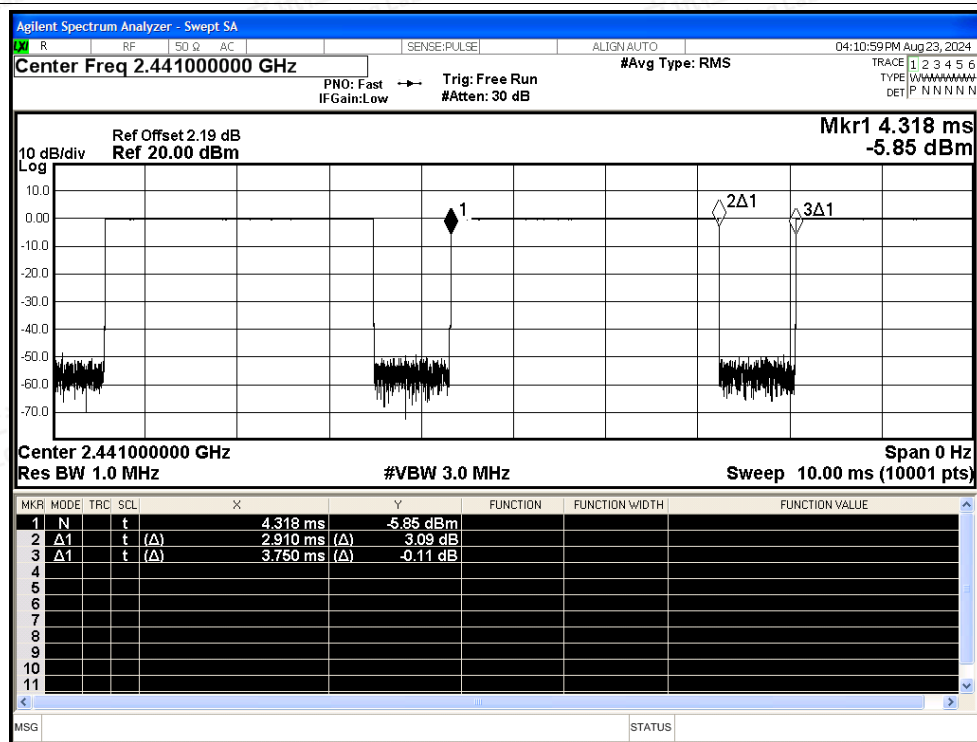


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

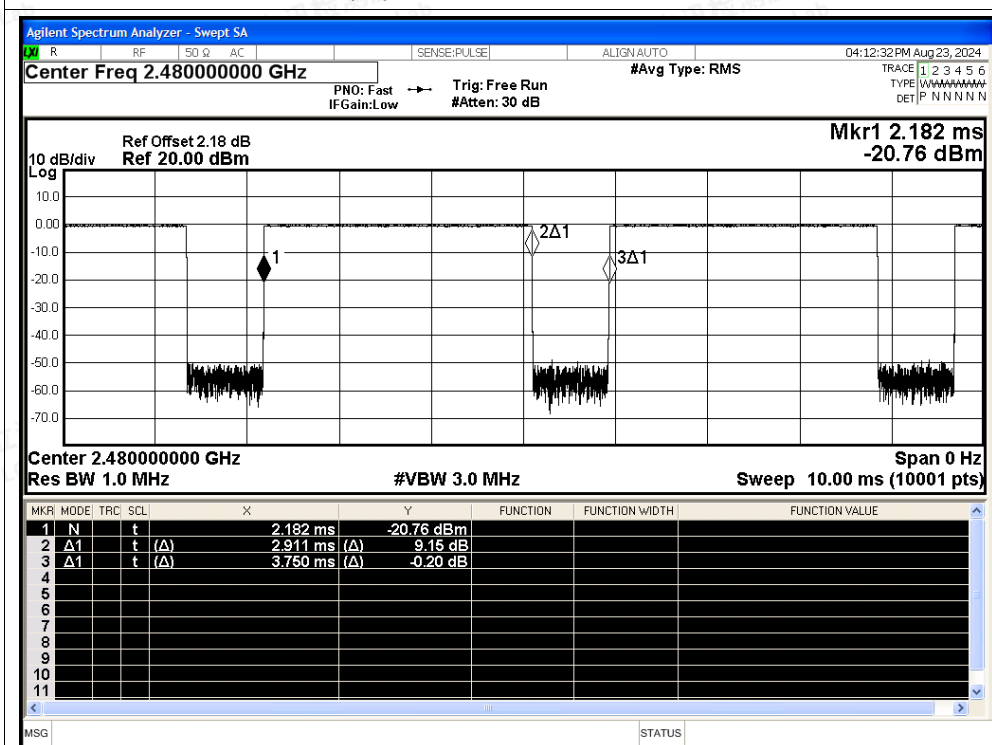
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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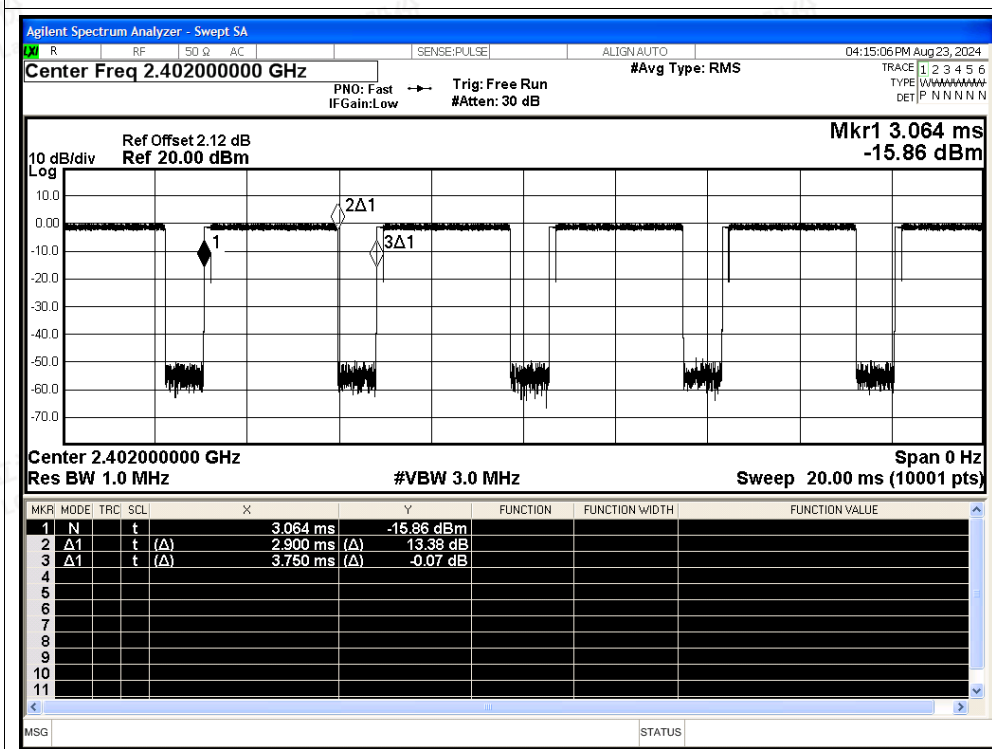
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



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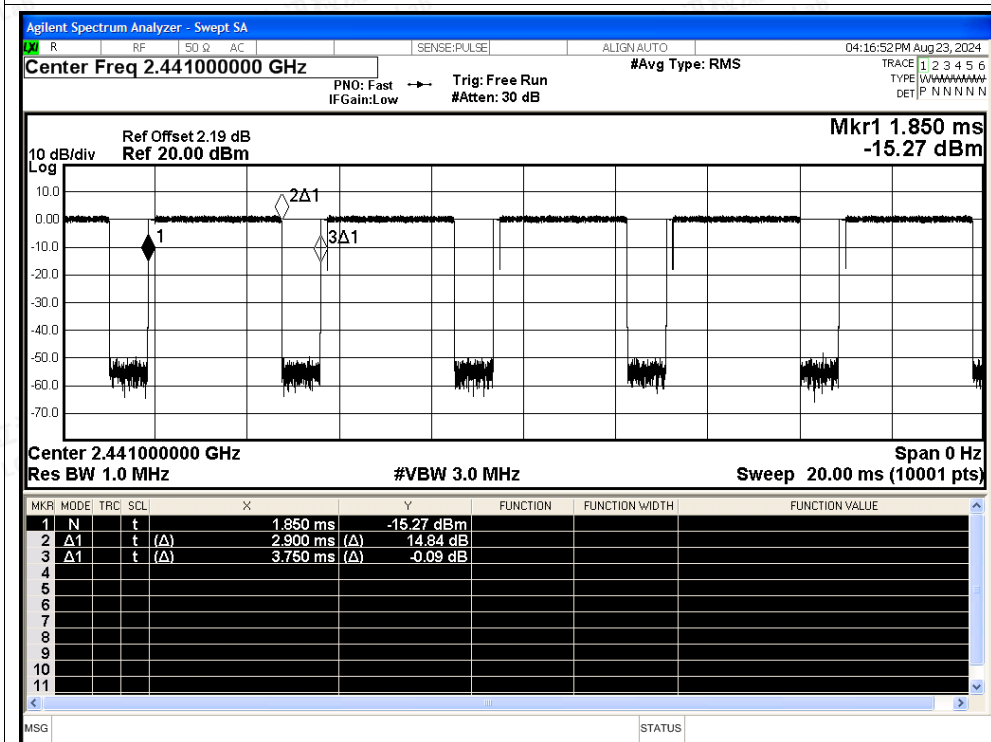
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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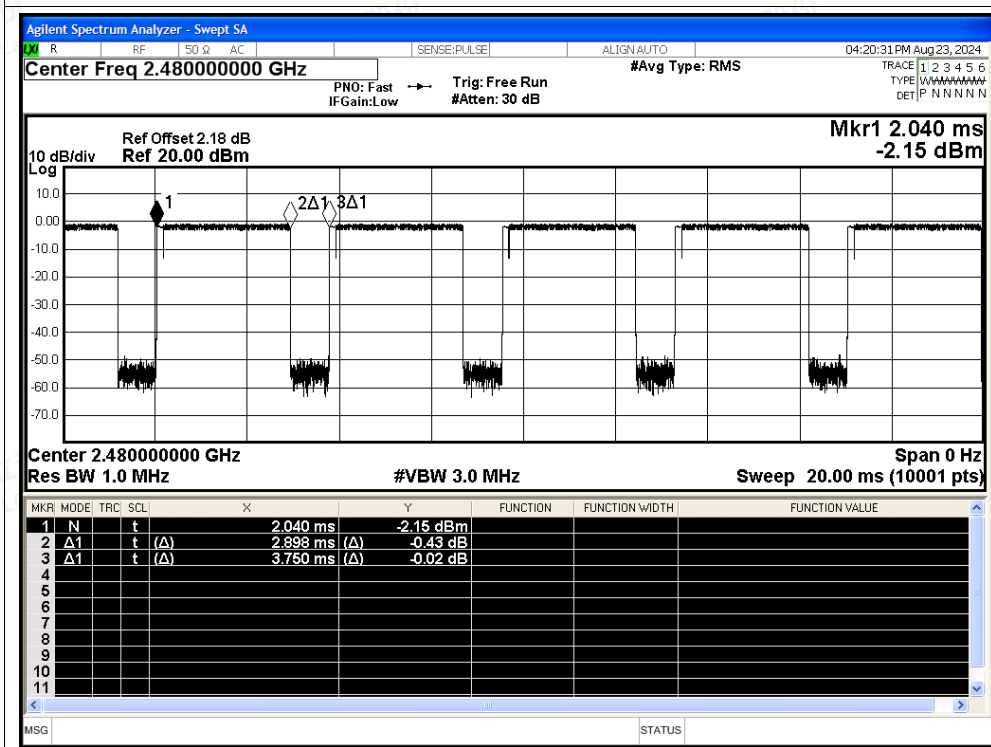
Scan code to check authenticity



Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

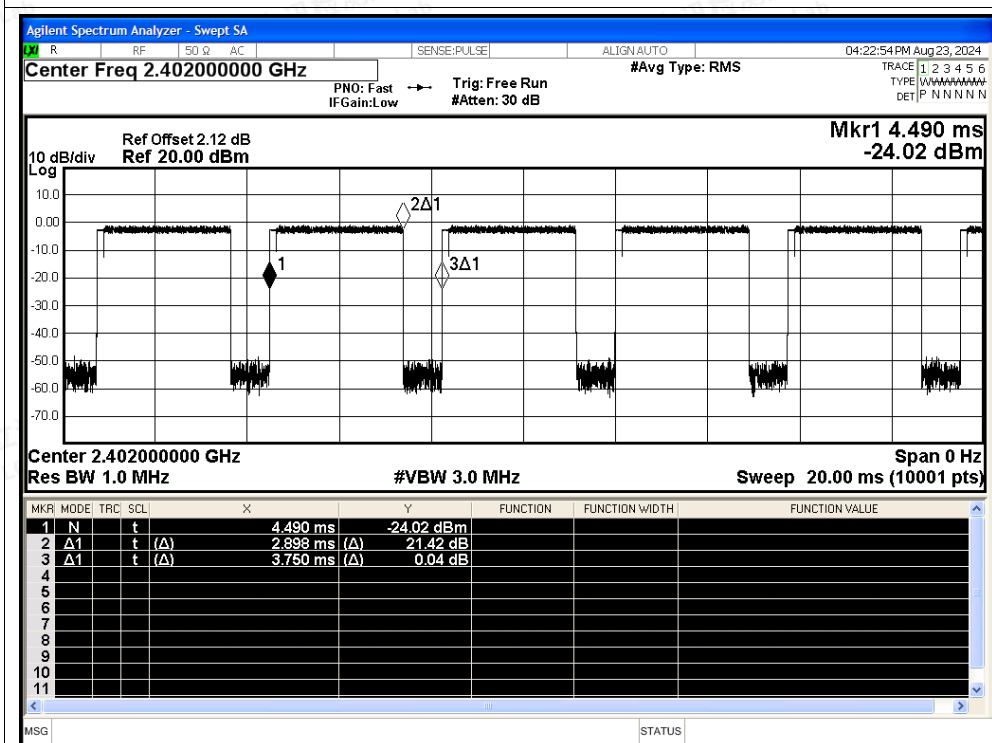
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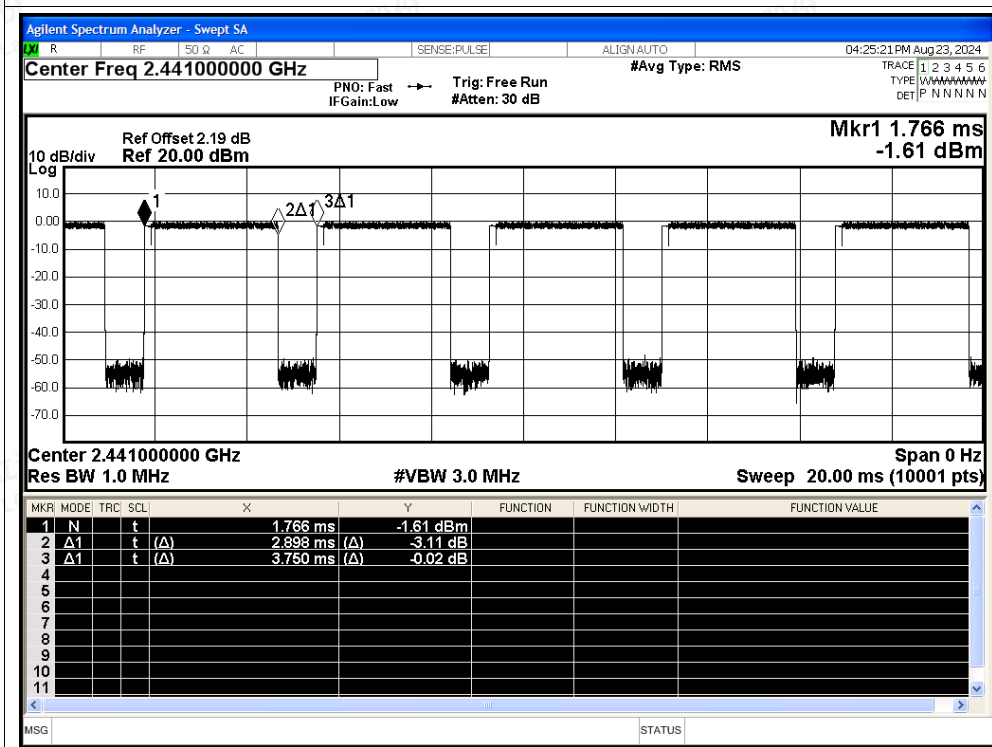
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Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

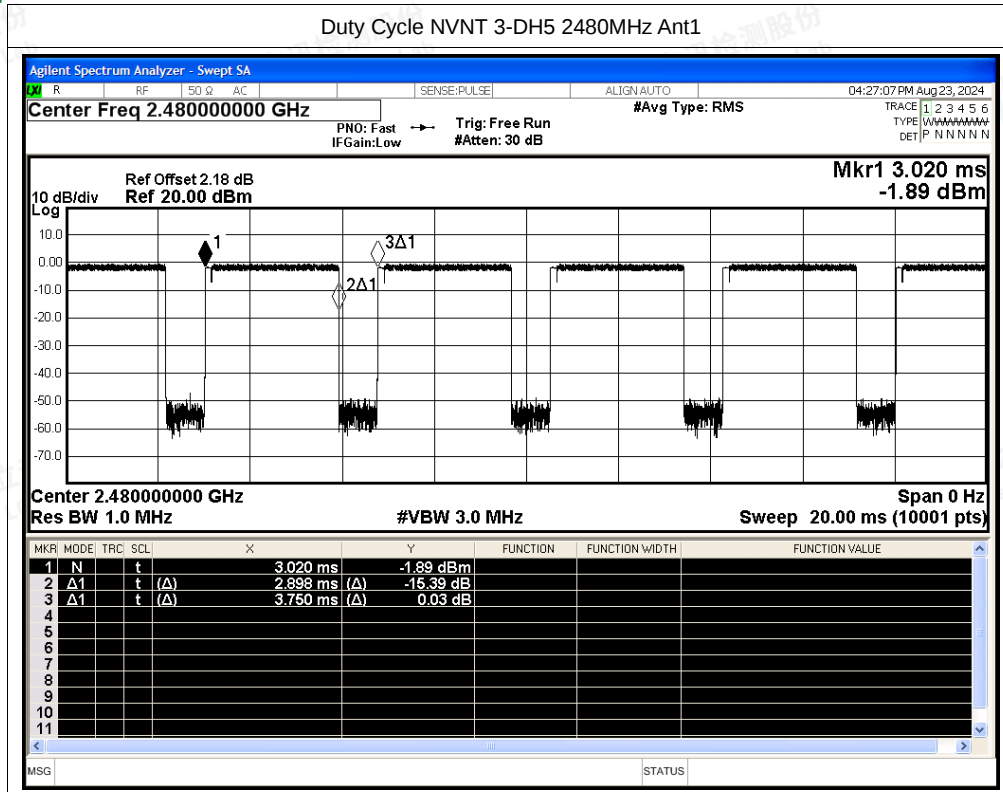


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A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.48	2	-	46.78	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.75	2	1.1	39.61	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2382.768	-46.5	2	-	50.76	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2383.824	-57.55	2	1.1	40.81	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.16	2	-	47.1	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.46	2	1.1	39.9	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.17	2	-	48.09	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.67	2	1.1	40.69	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2498.152	-46.87	2	-	50.39	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.56	-57.03	2	1.1	41.33	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.77	2	-	47.49	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.08	2	1.1	40.28	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.81	2	-	47.45	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.62	2	1.12	39.76	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2375.184	-46.74	2	-	50.52	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.72	-57.64	2	1.12	40.74	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.46	2	-	47.8	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.38	2	1.12	40	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-47.61	2	-	49.65	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-56.67	2	1.12	41.71	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.56	-44.56	2	-	52.7	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-56.67	2	1.12	41.71	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.25	2	-	47.01	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.8	2	1.12	40.58	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.64	2	-	46.62	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-59.01	2	1.12	39.37	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2338.896	-47.05	2	-	50.21	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2356.56	-57.61	2	1.12	40.77	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.22	2	-	47.04	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.3	2	1.12	40.08	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-46.04	2	-	51.22	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-56.69	2	1.12	41.69	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.584	-45.35	2	-	51.91	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.752	-56.24	2	1.12	42.14	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.73	2	-	48.53	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.84	2	1.12	40.54	Average	54	Pass



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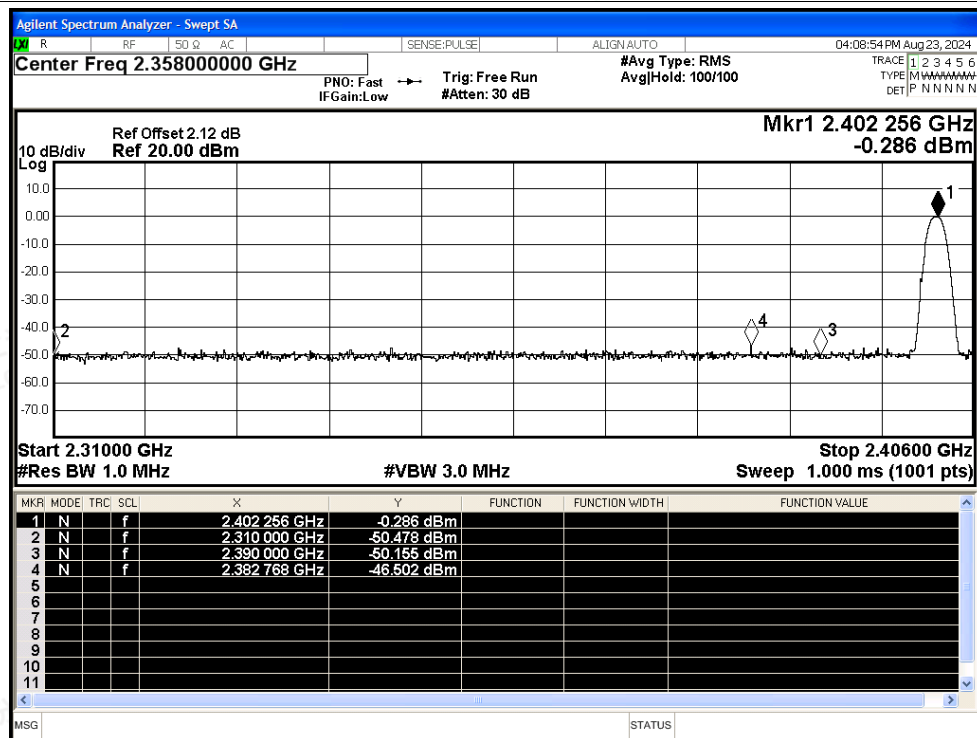
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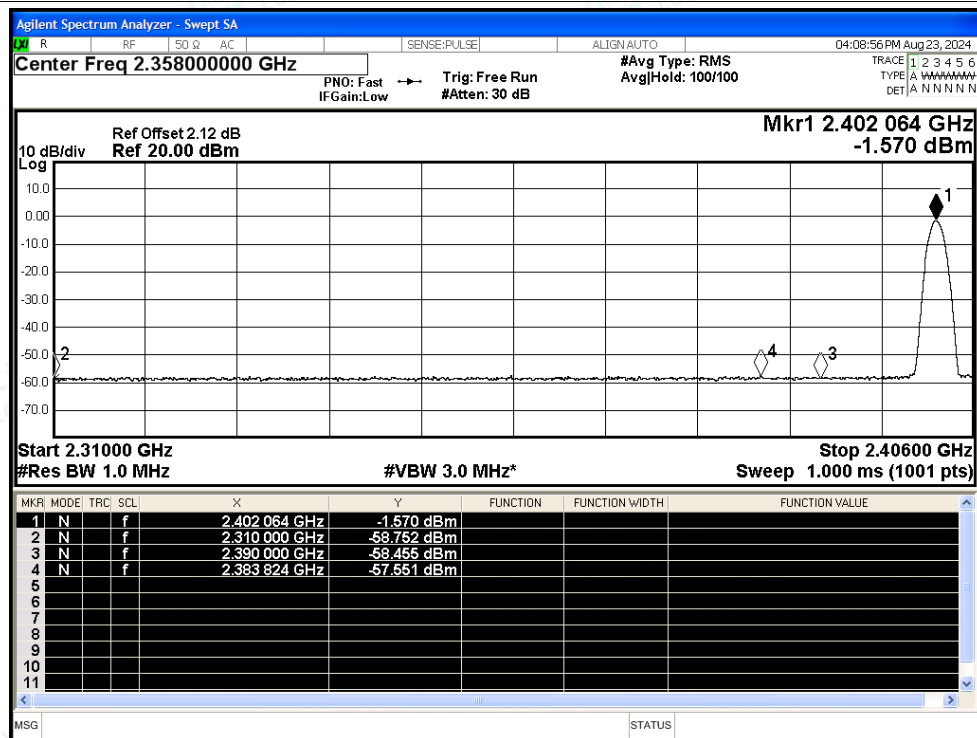


Test Graphs

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



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



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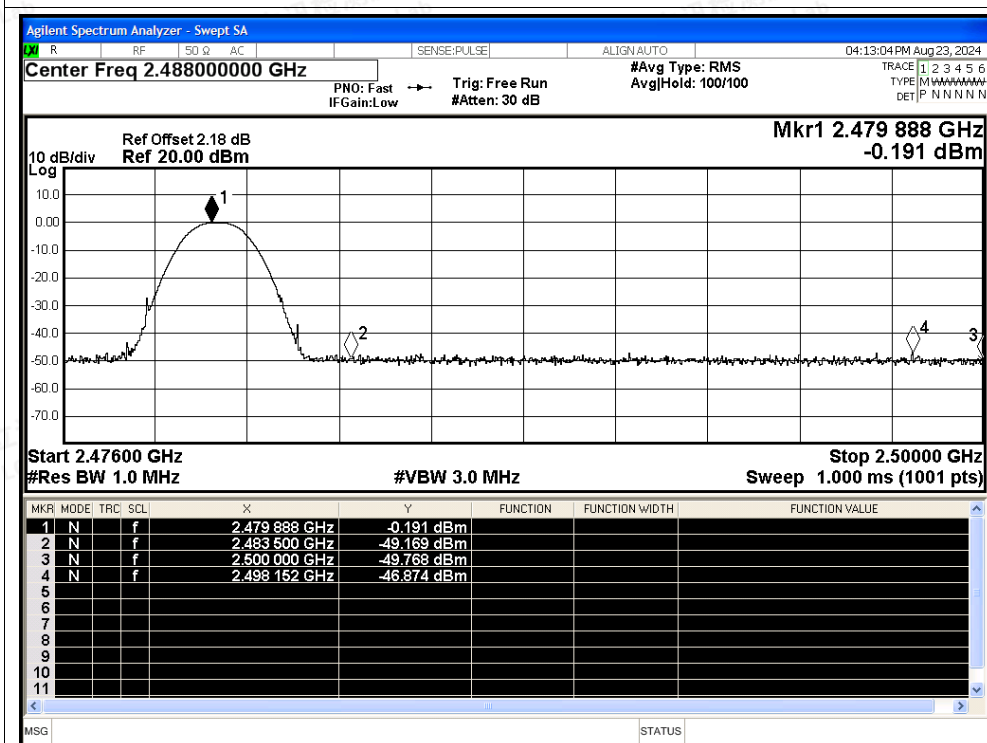
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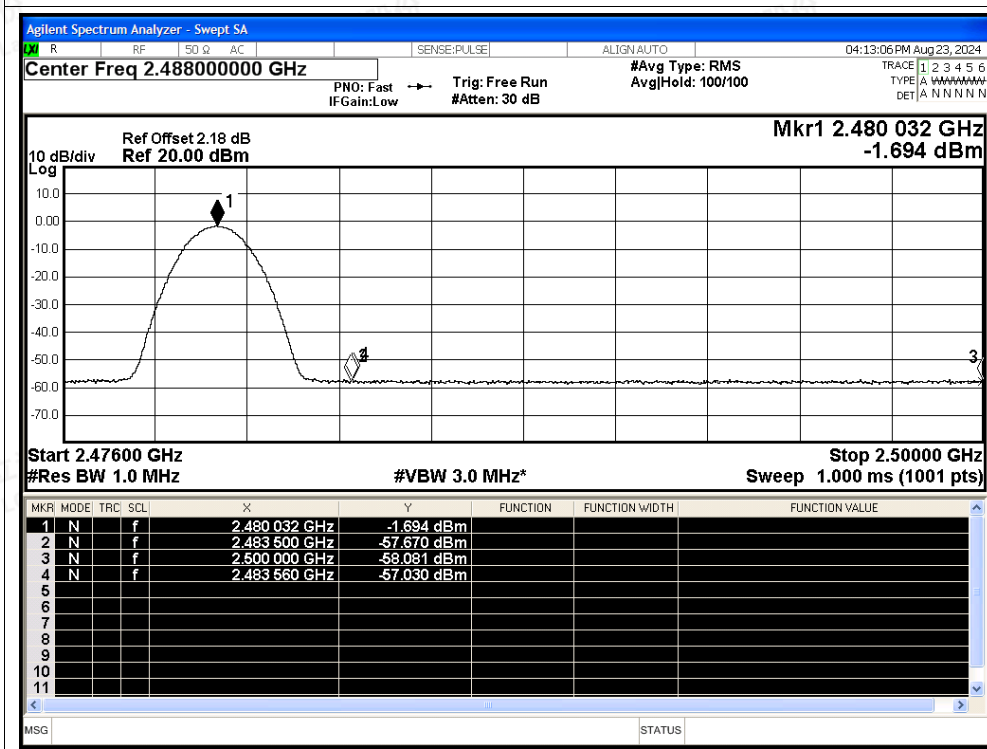
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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

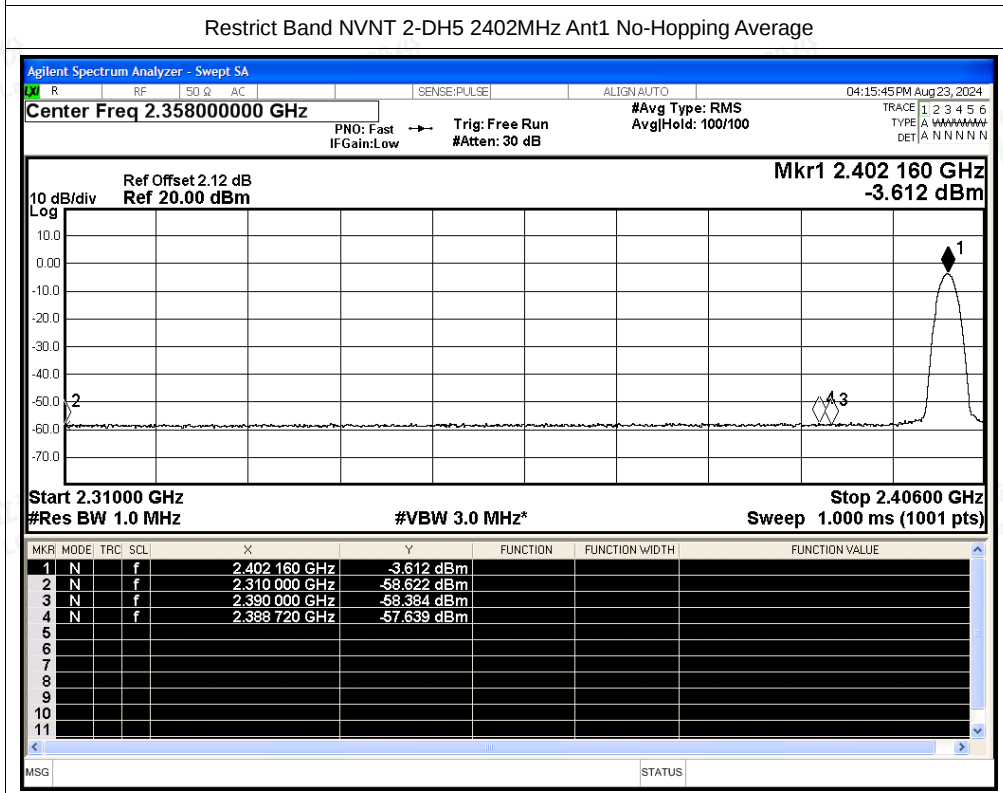
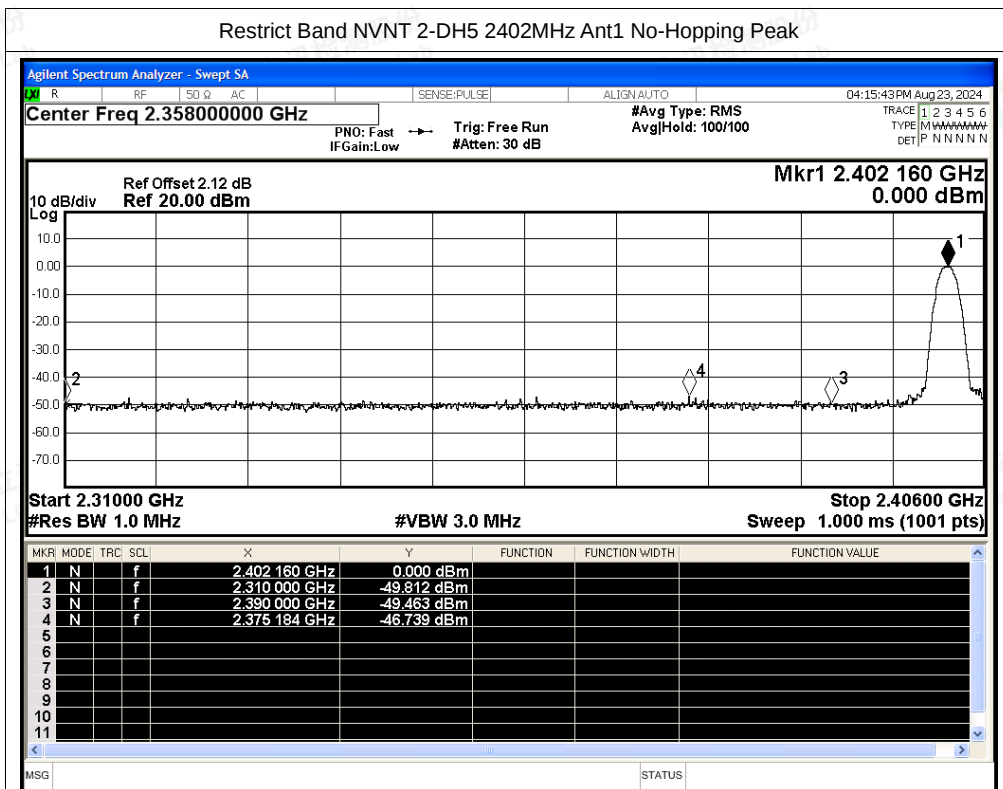


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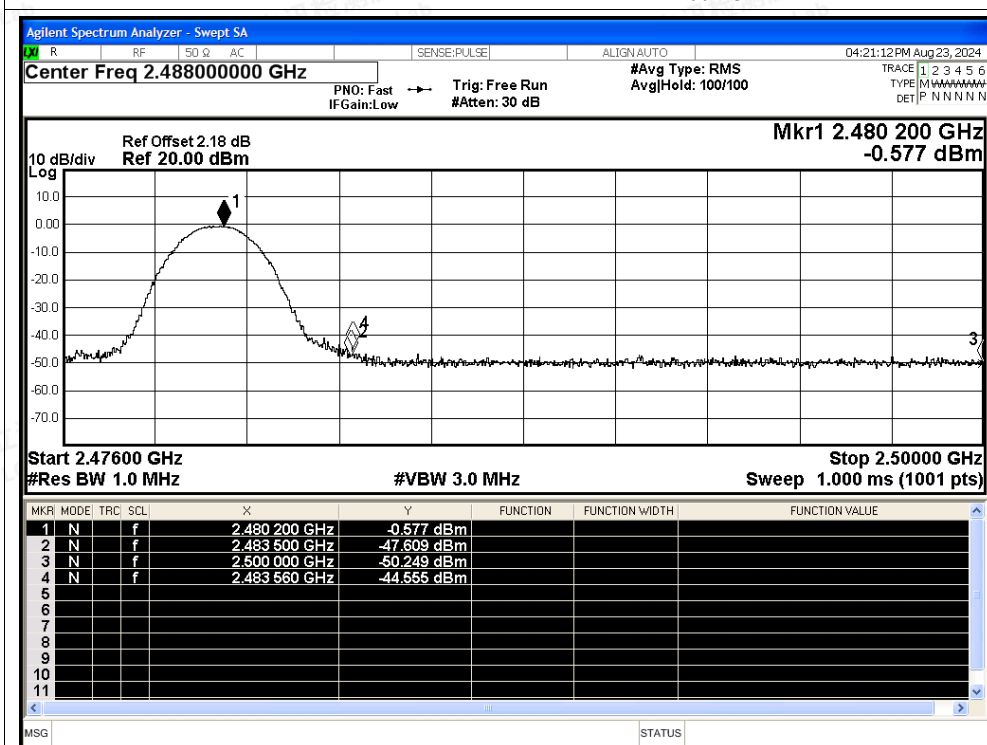
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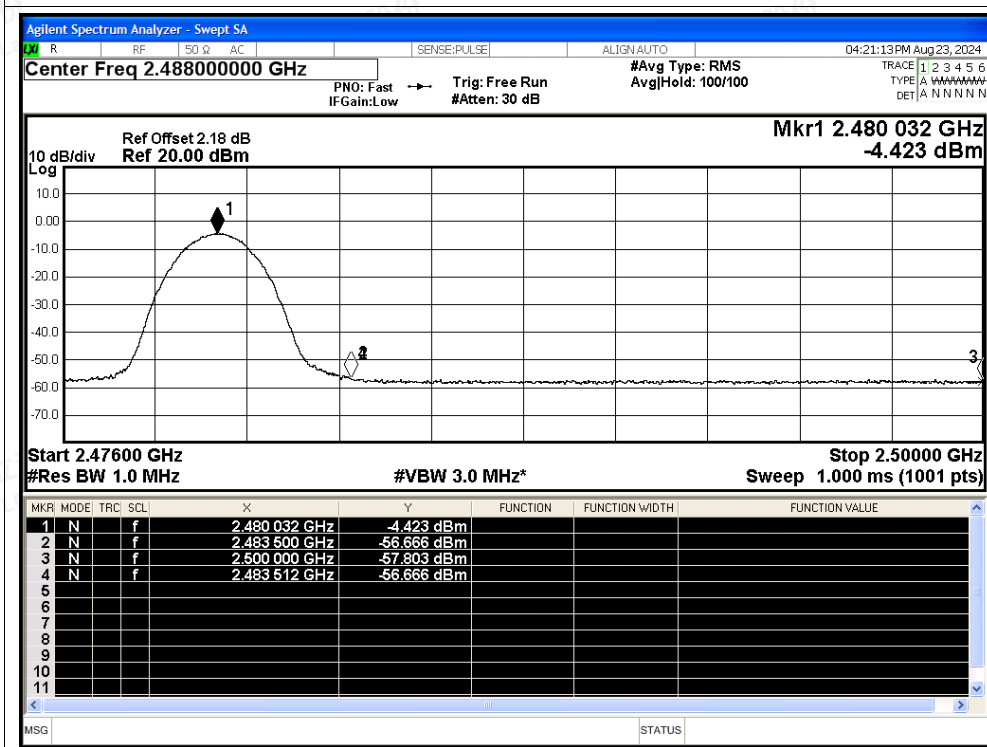
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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

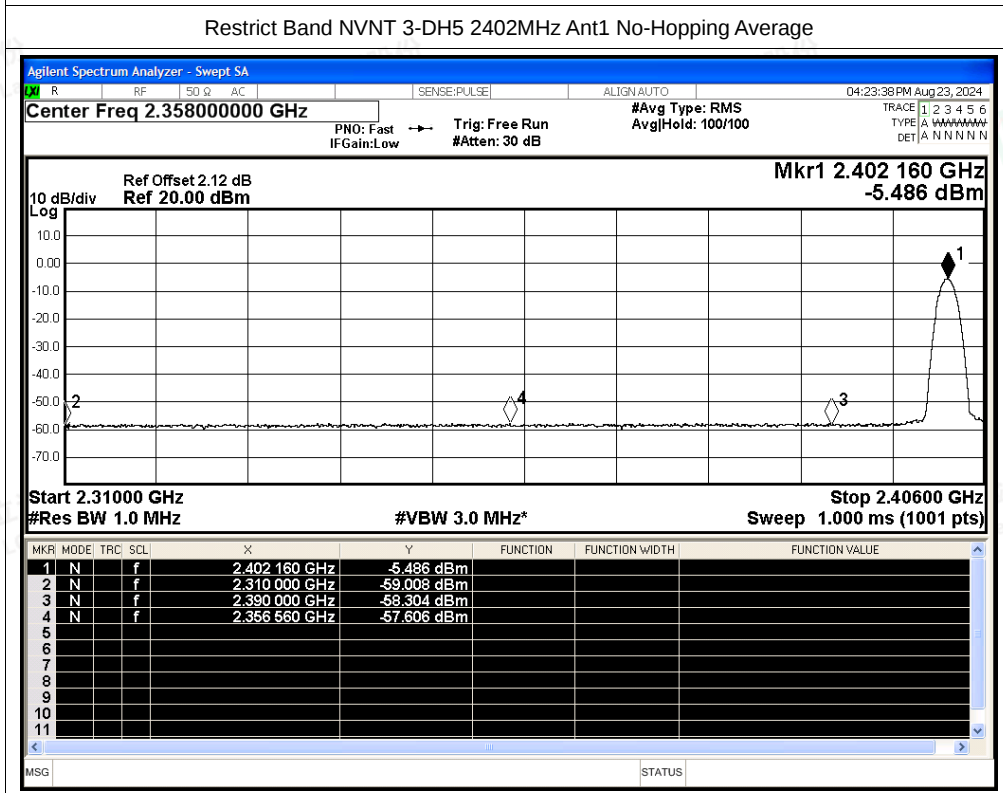
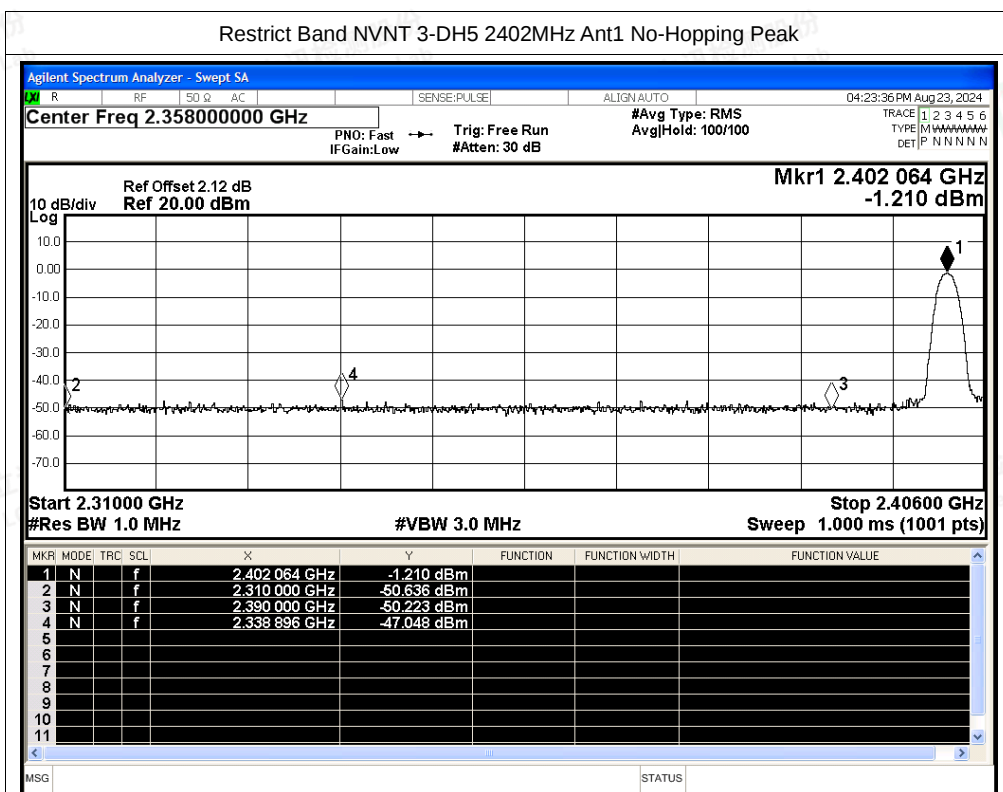


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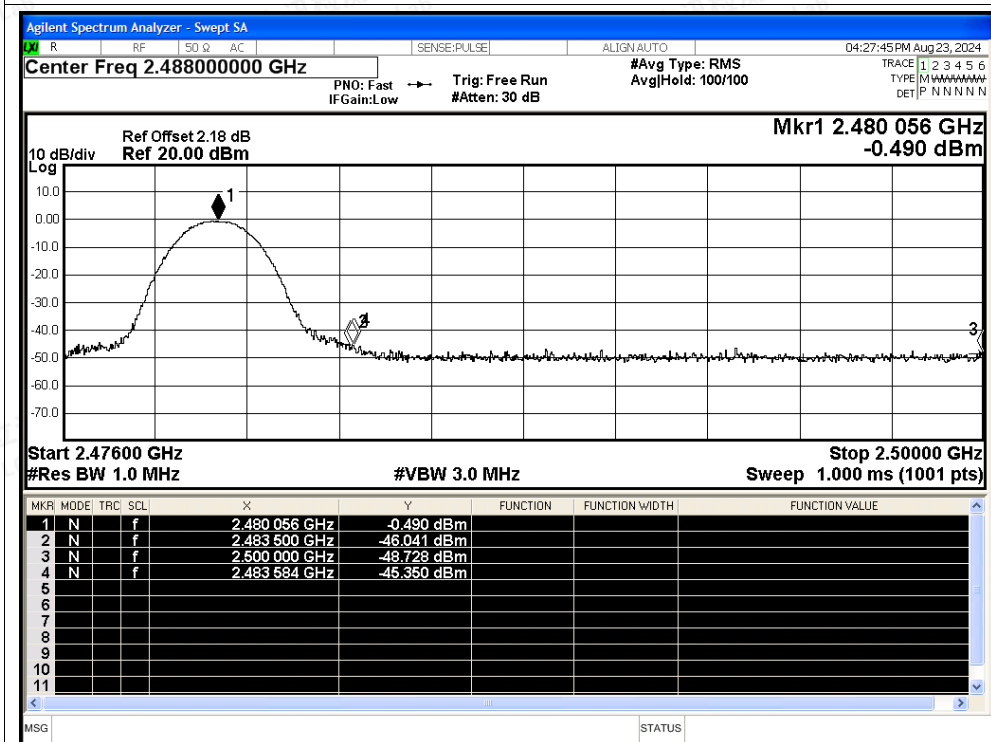
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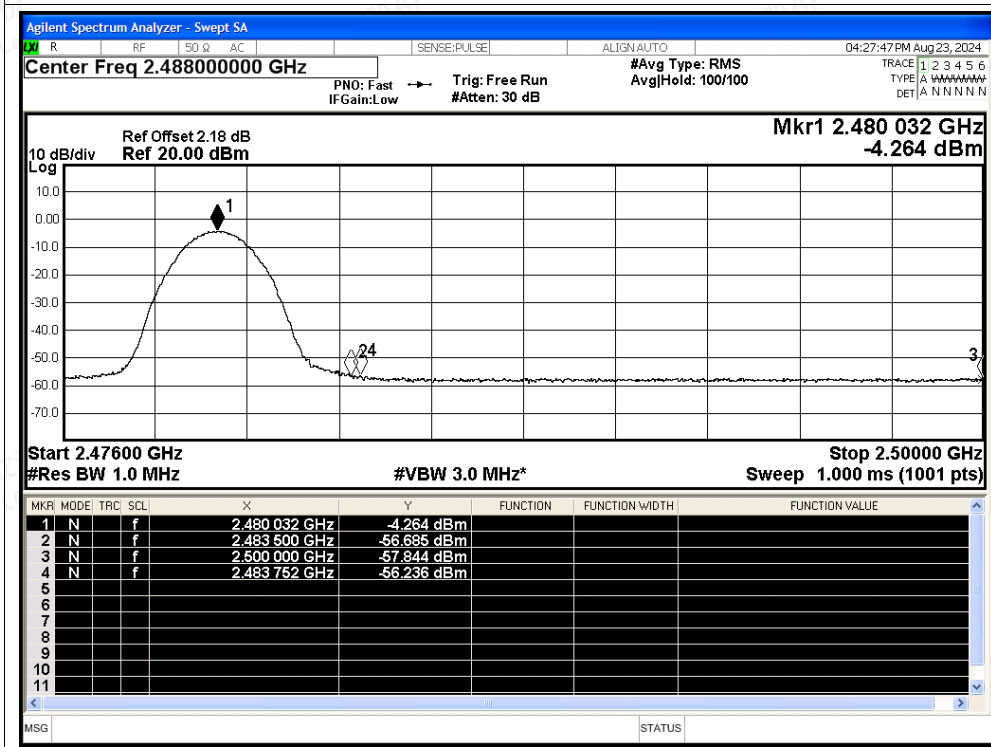
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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