



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Creative Zen Hybrid Gen 2

Test Model: EF1220

Environmental Conditions

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





A.1 -20dB Bandwidth

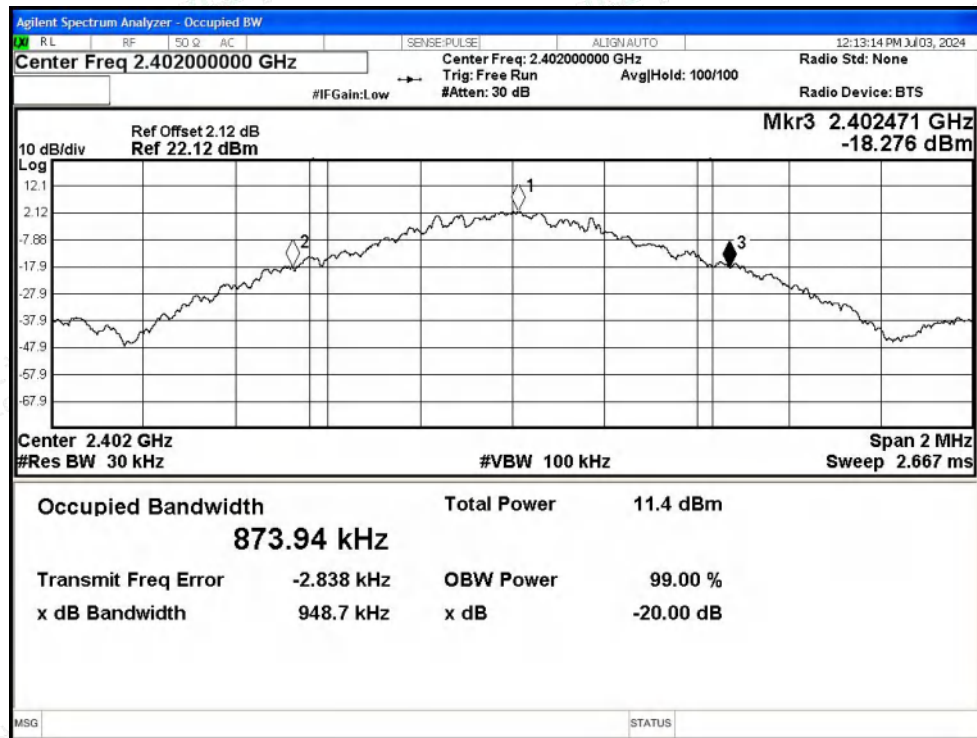
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.949	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.947	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.892	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.331	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.312	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.278	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.287	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.31	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.294	N/A	Pass



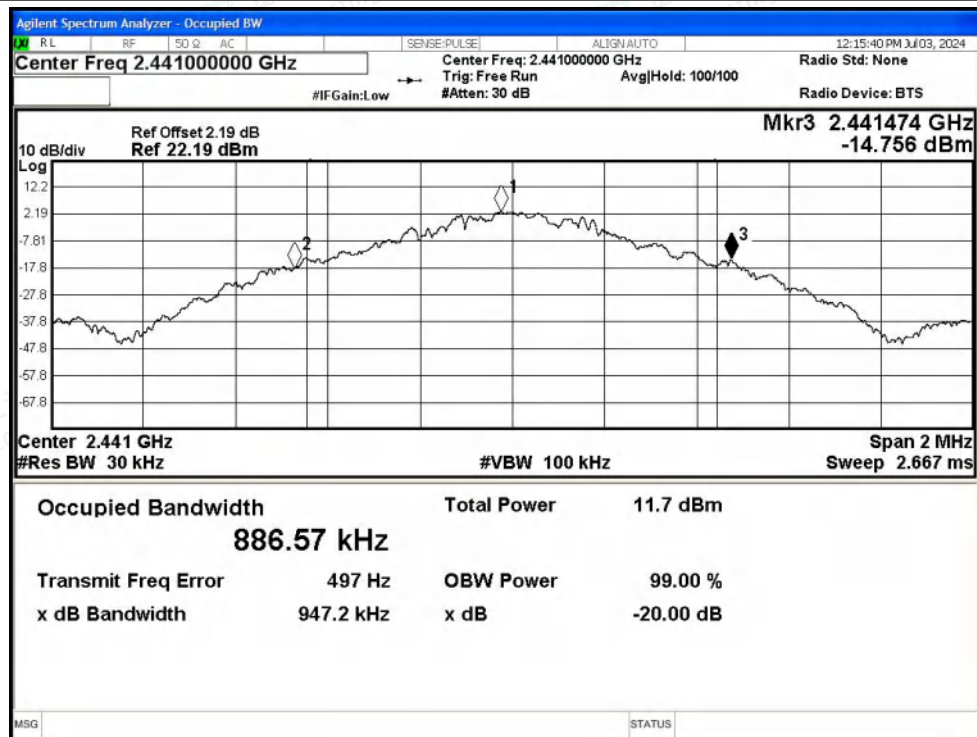


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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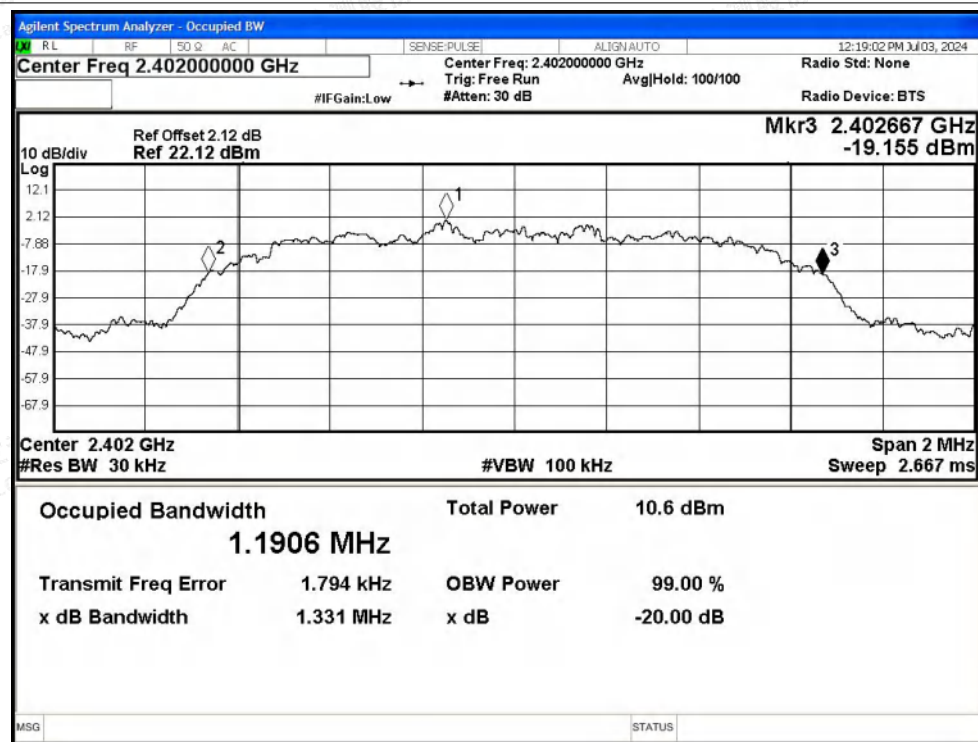
Scan code to check authenticity



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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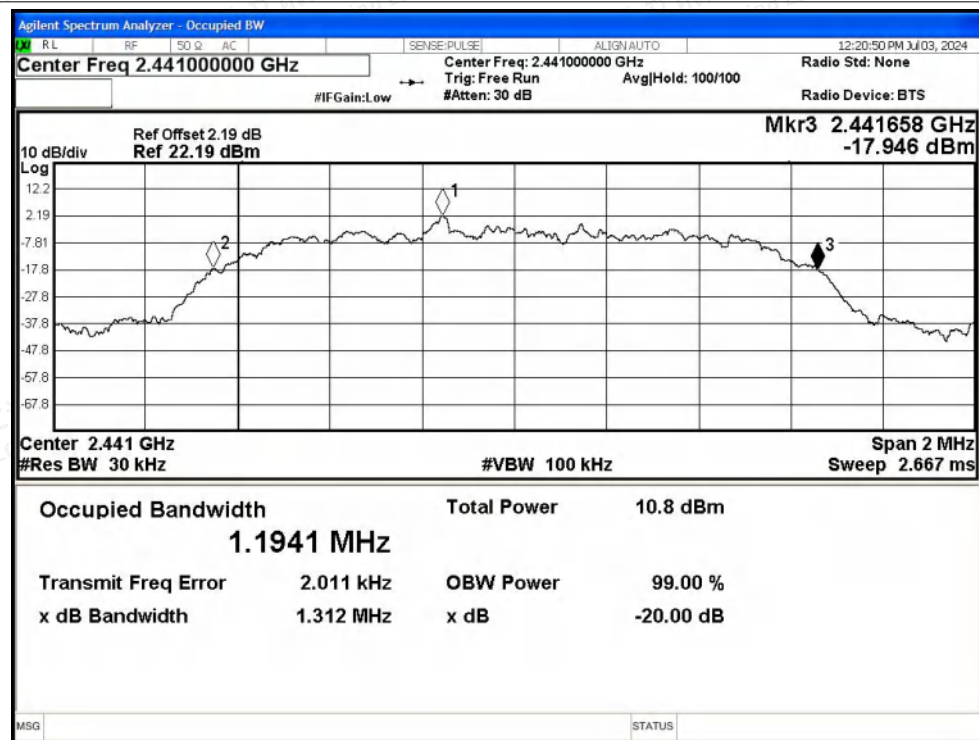
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

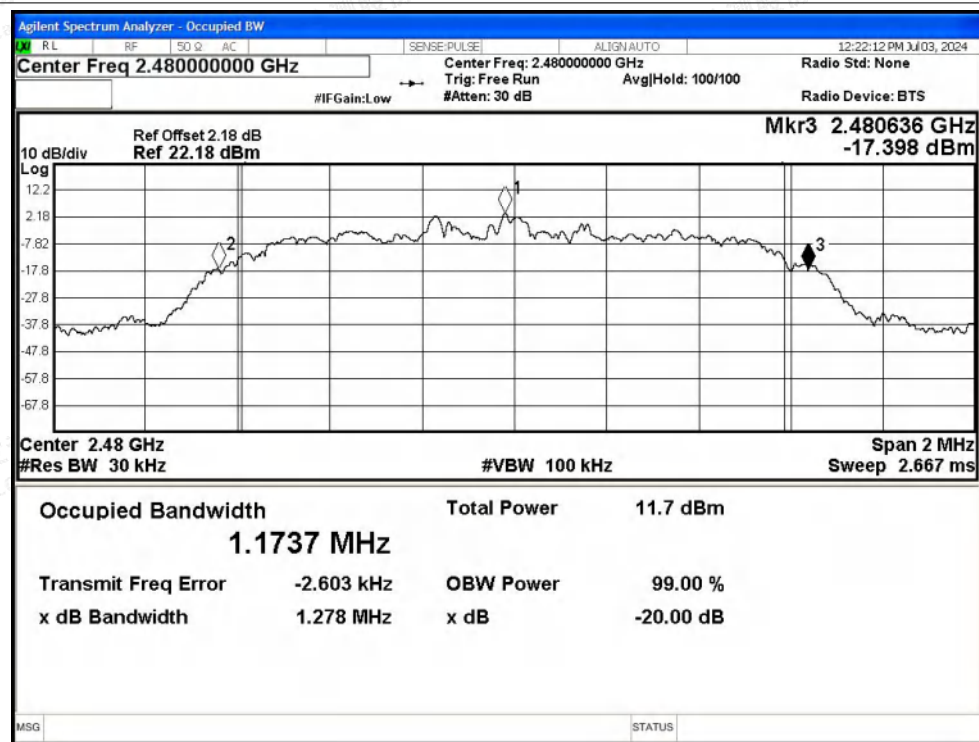
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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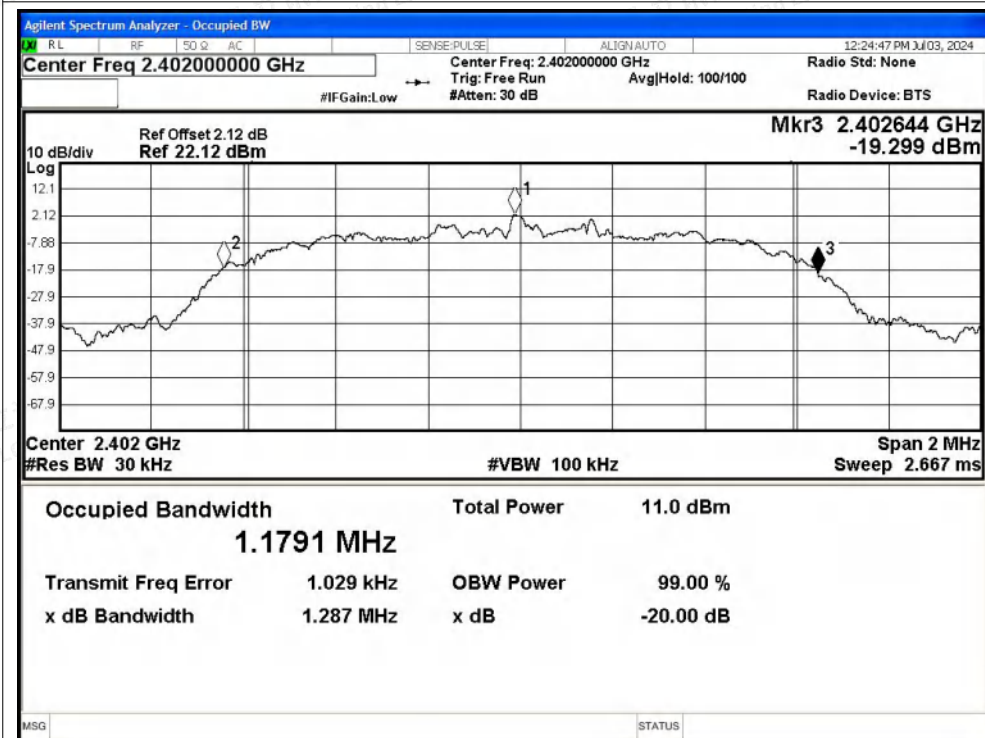
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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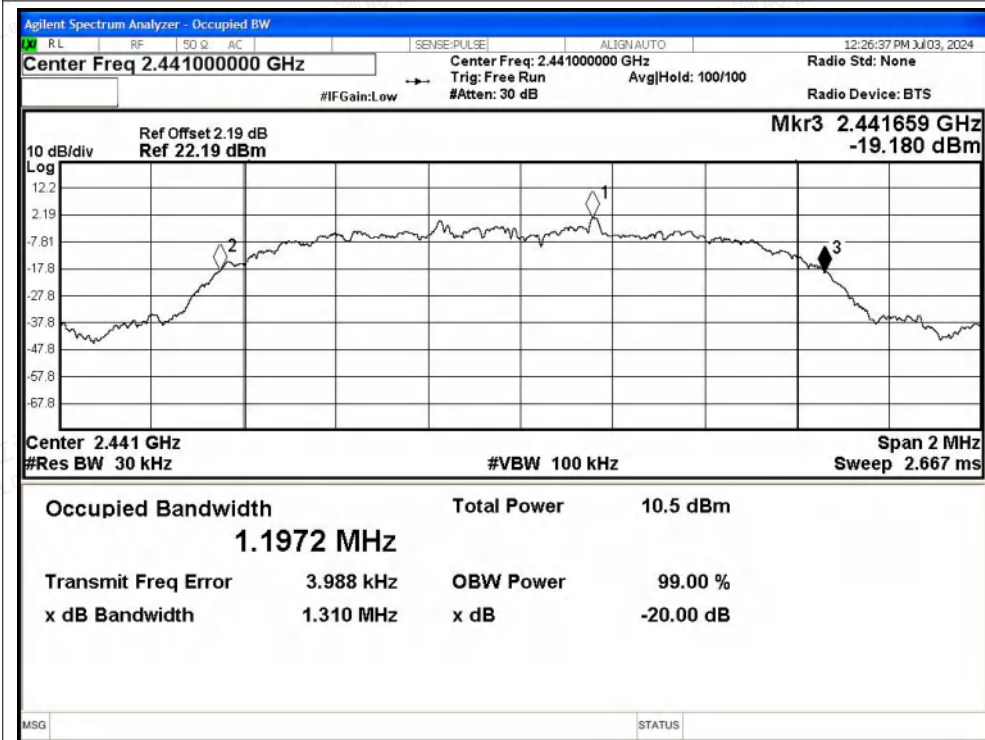
Scan code to check authenticity

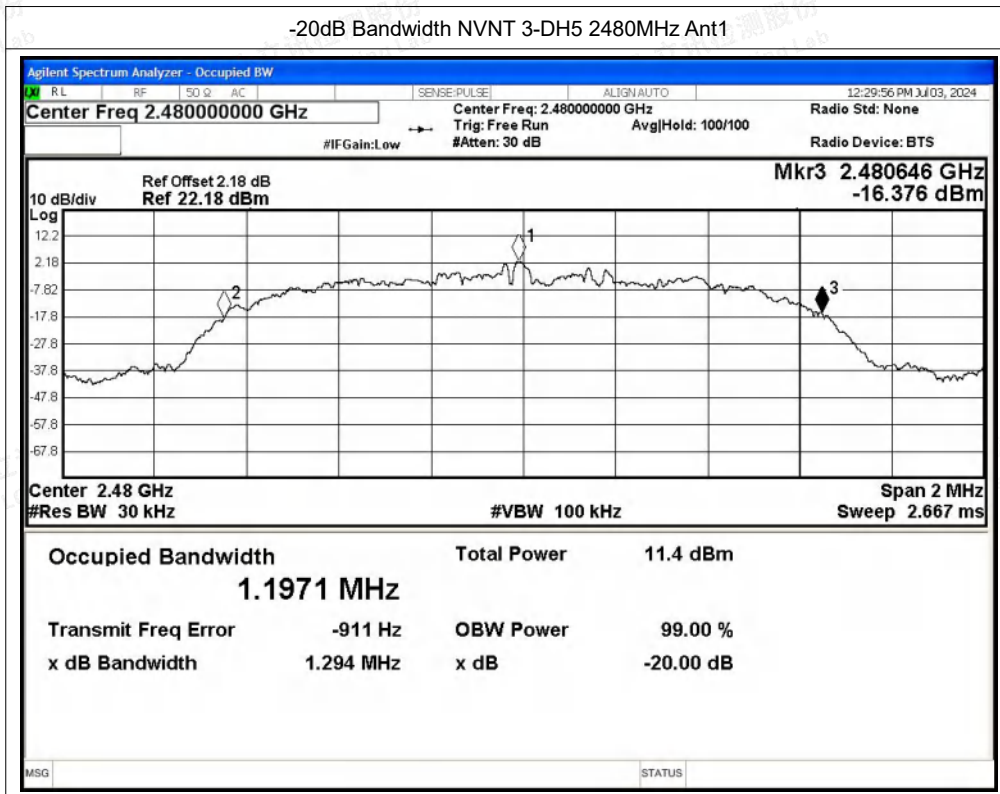


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





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A.2 Maximum Conducted Output Power

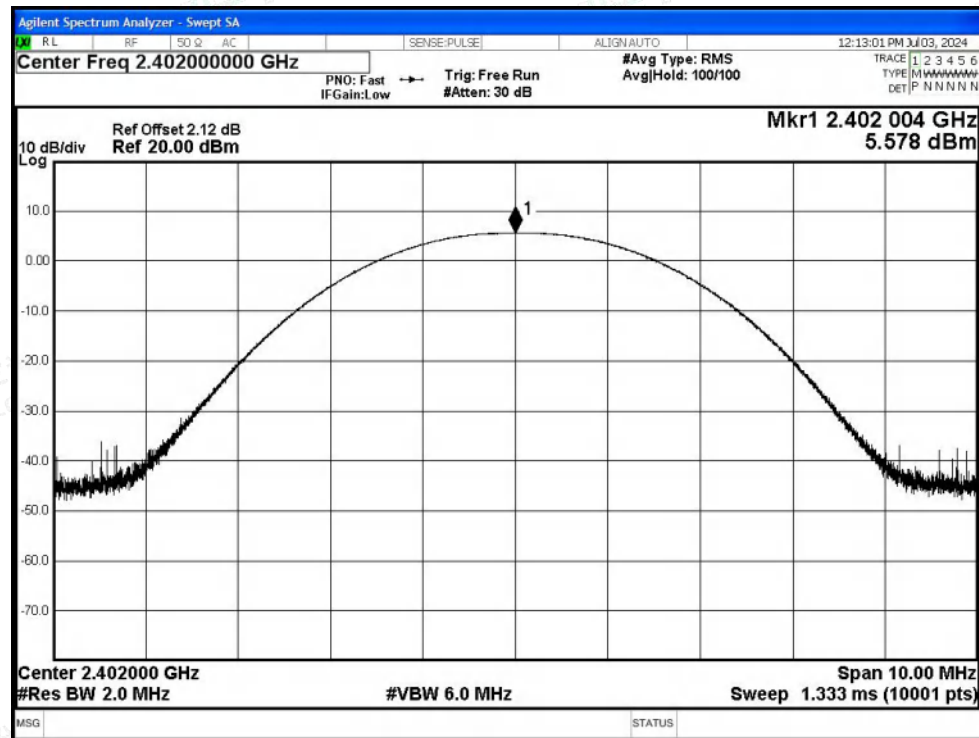
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	5.58	21	Pass
NVNT	1-DH5	2441	Ant1	5.76	21	Pass
NVNT	1-DH5	2480	Ant1	6.06	21	Pass
NVNT	2-DH5	2402	Ant1	6.38	21	Pass
NVNT	2-DH5	2441	Ant1	6.48	21	Pass
NVNT	2-DH5	2480	Ant1	6.83	21	Pass
NVNT	3-DH5	2402	Ant1	6.38	21	Pass
NVNT	3-DH5	2441	Ant1	6.59	21	Pass
NVNT	3-DH5	2480	Ant1	6.85	21	Pass



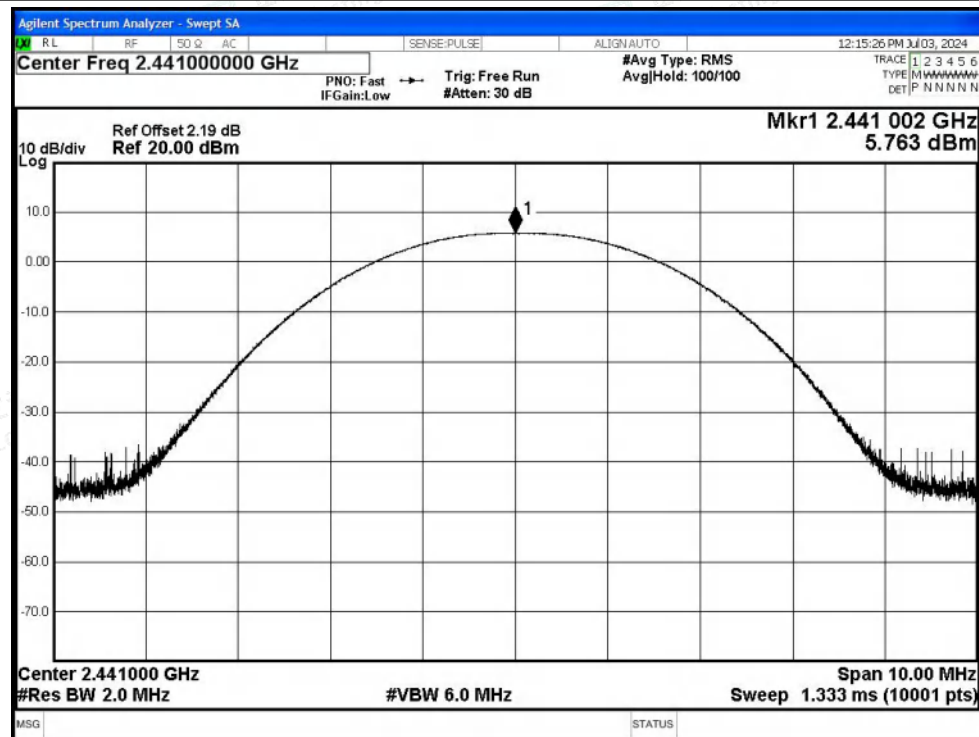


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

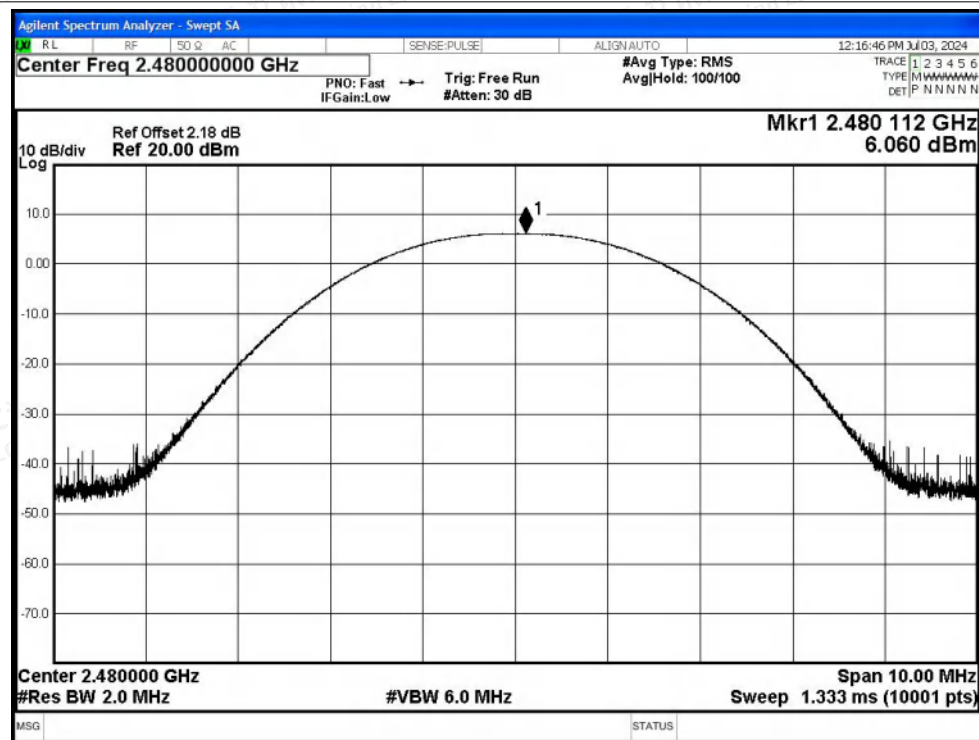


Power NVNT 1-DH5 2441MHz Ant1

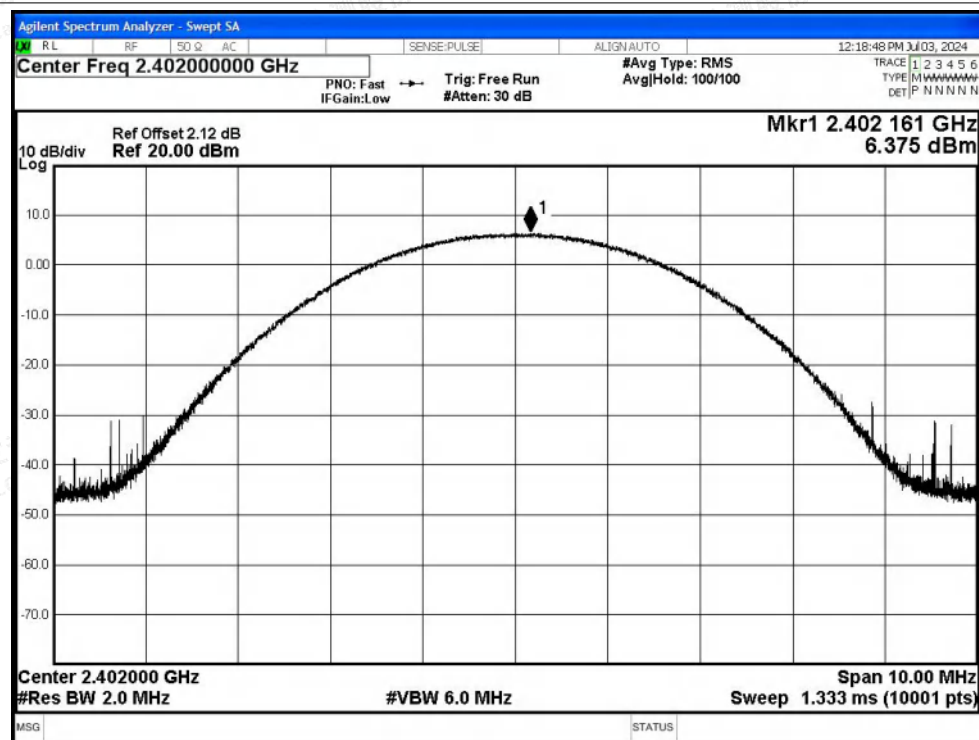




Power NVNT 1-DH5 2480MHz Ant1

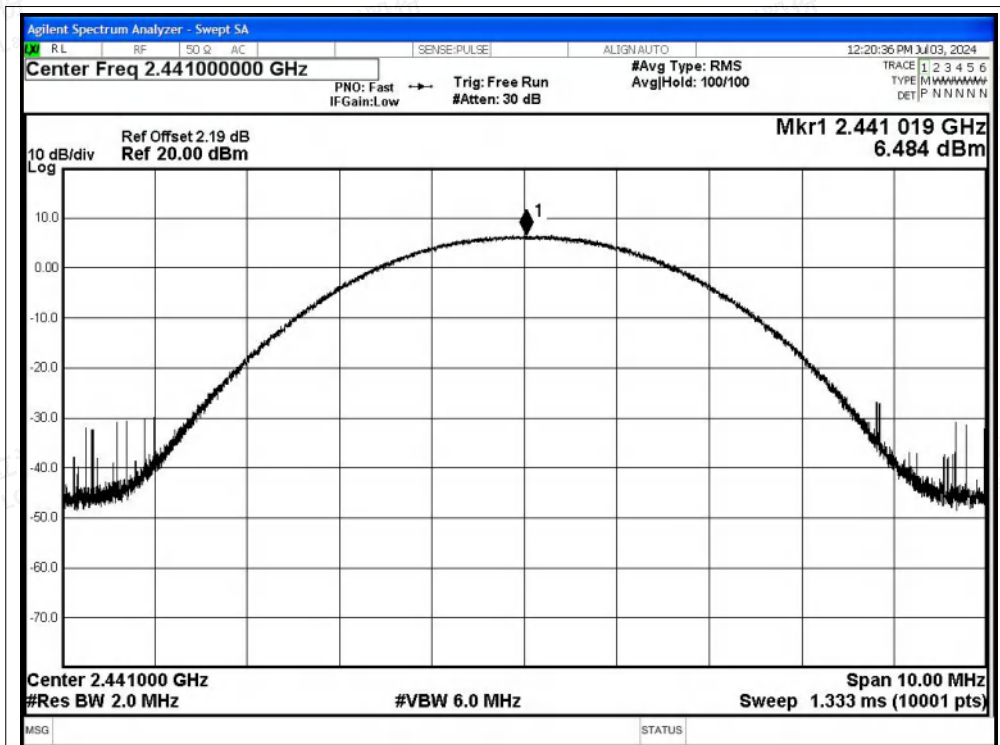


Power NVNT 2-DH5 2402MHz Ant1

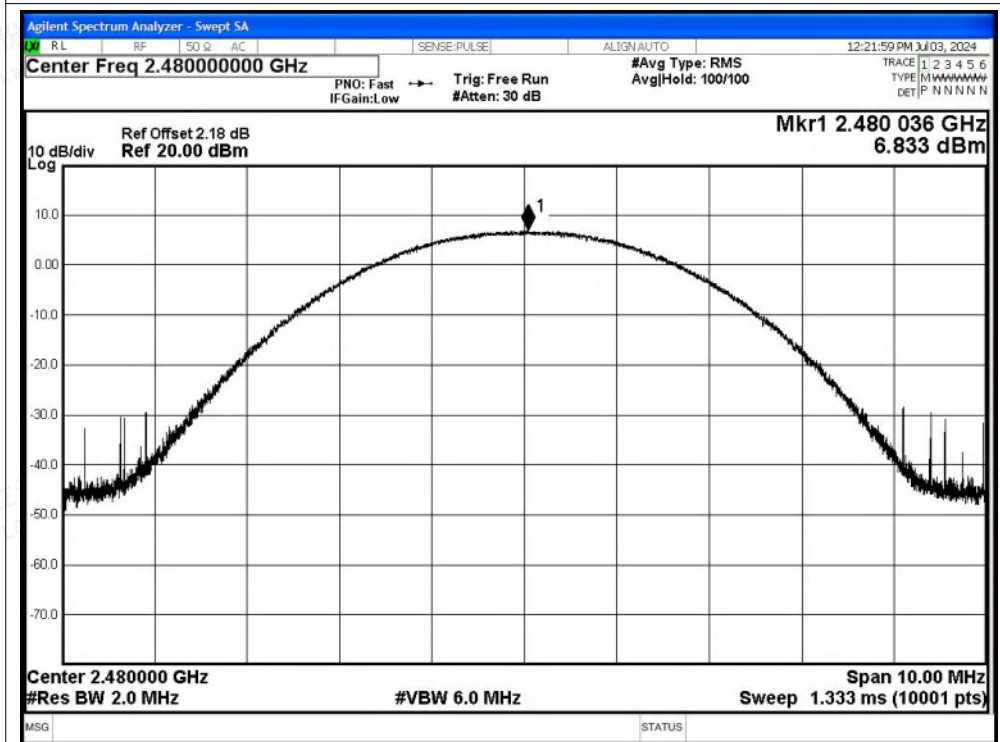


Power NVNT 2-DH5 2441MHz Ant1



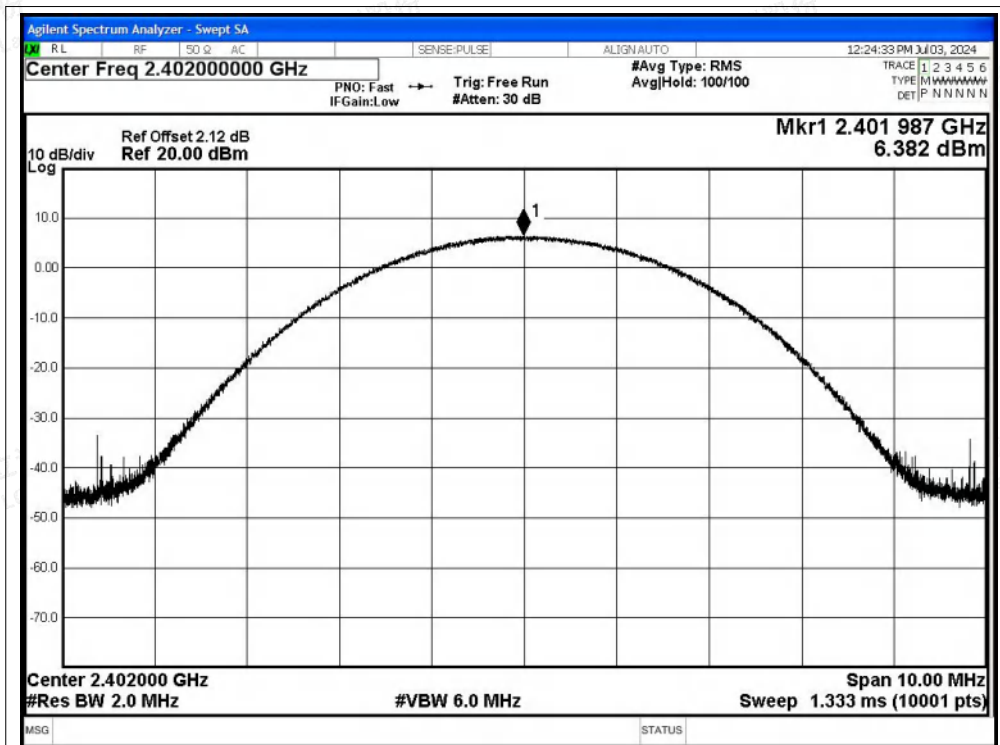


Power NVNT 2-DH5 2480MHz Ant1

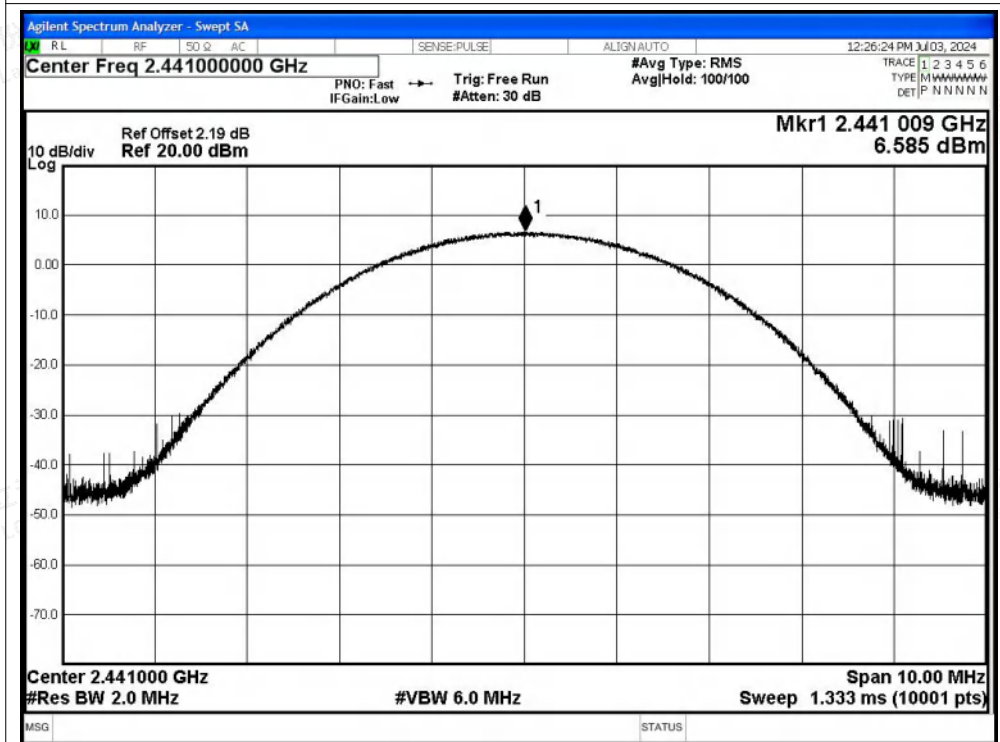


Power NVNT 3-DH5 2402MHz Ant1



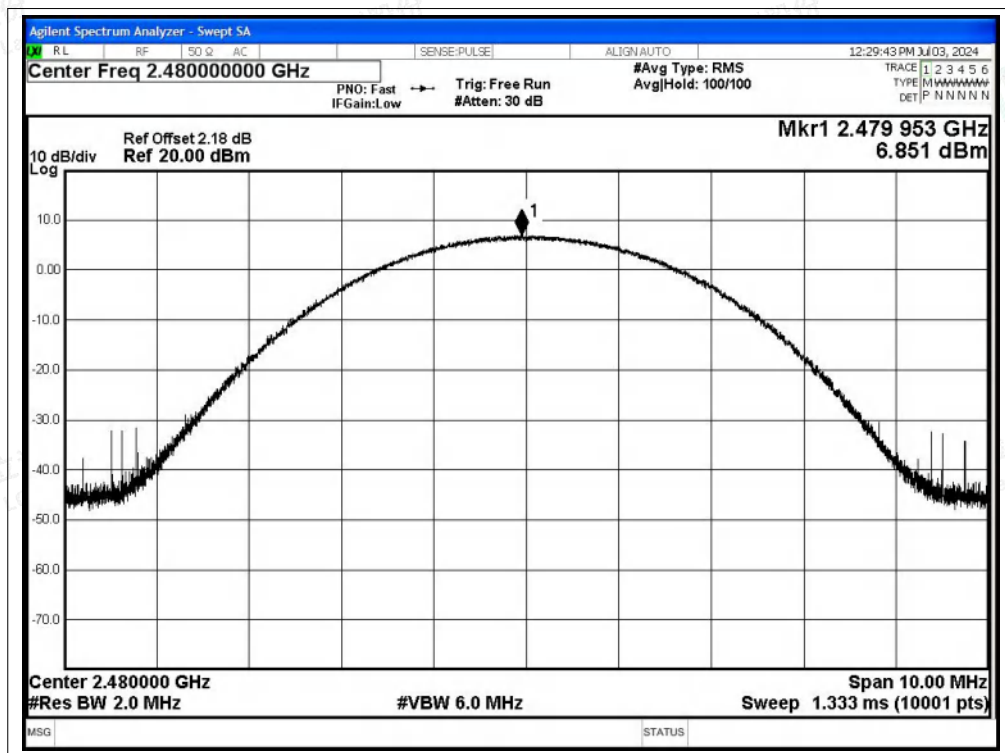


Power NVNT 3-DH5 2441MHz Ant1



Power NVNT 3-DH5 2480MHz Ant1







A.3 Carrier Frequencies Separation

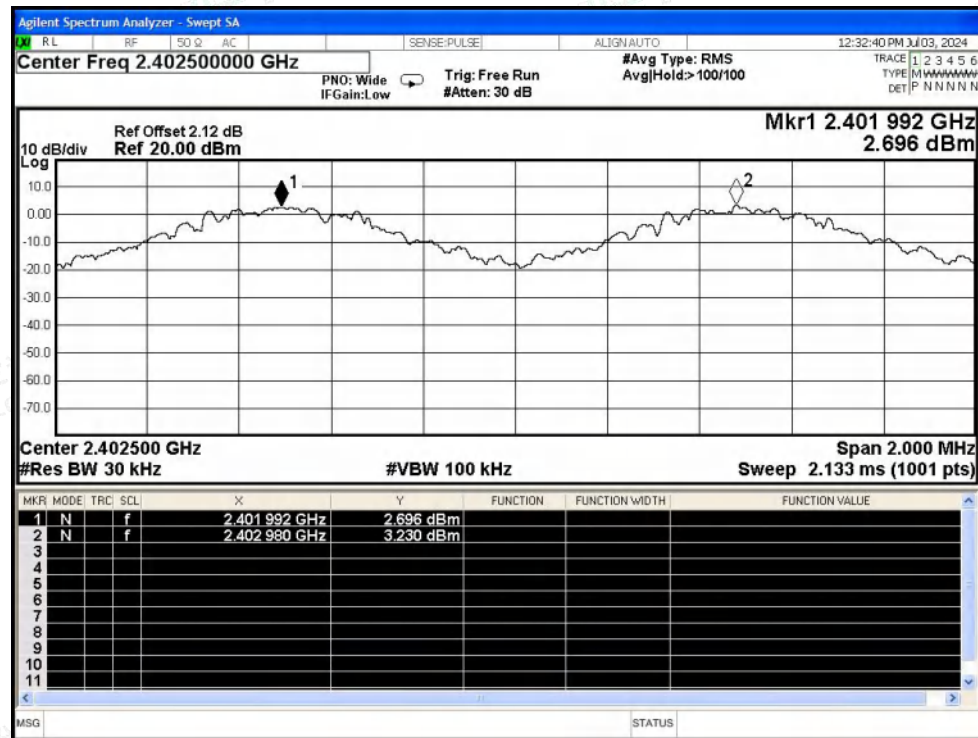
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.992	2402.98	0.988	0.633	Pass
NVNT	2-DH5	Ant1	2401.844	2402.99	1.146	0.887	Pass
NVNT	3-DH5	Ant1	2401.98	2402.982	1.002	0.873	Pass



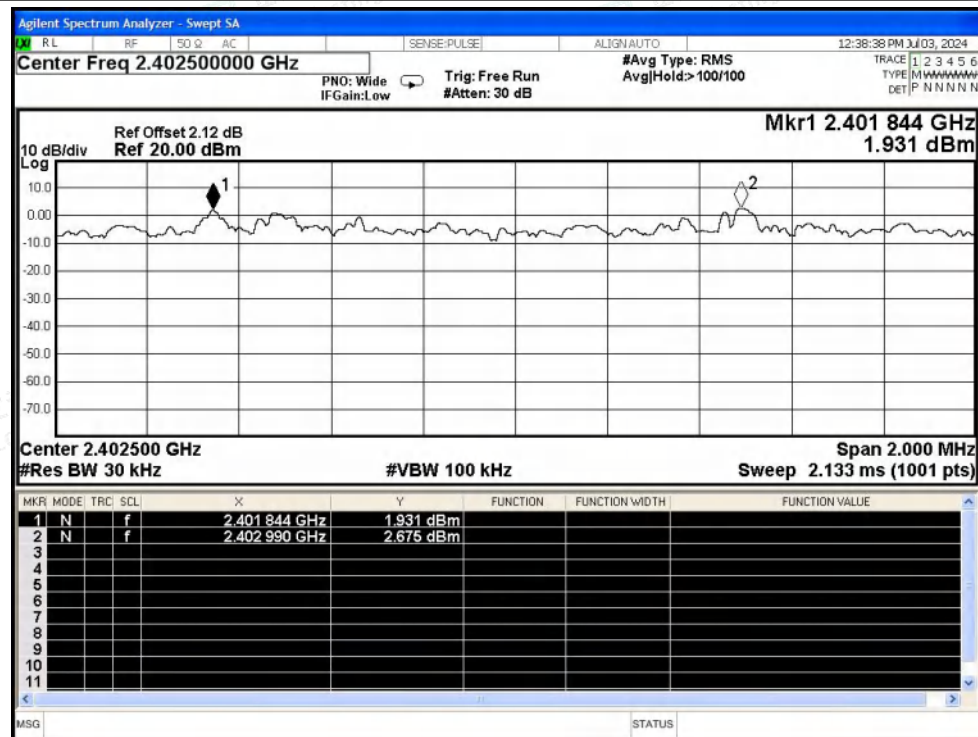


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

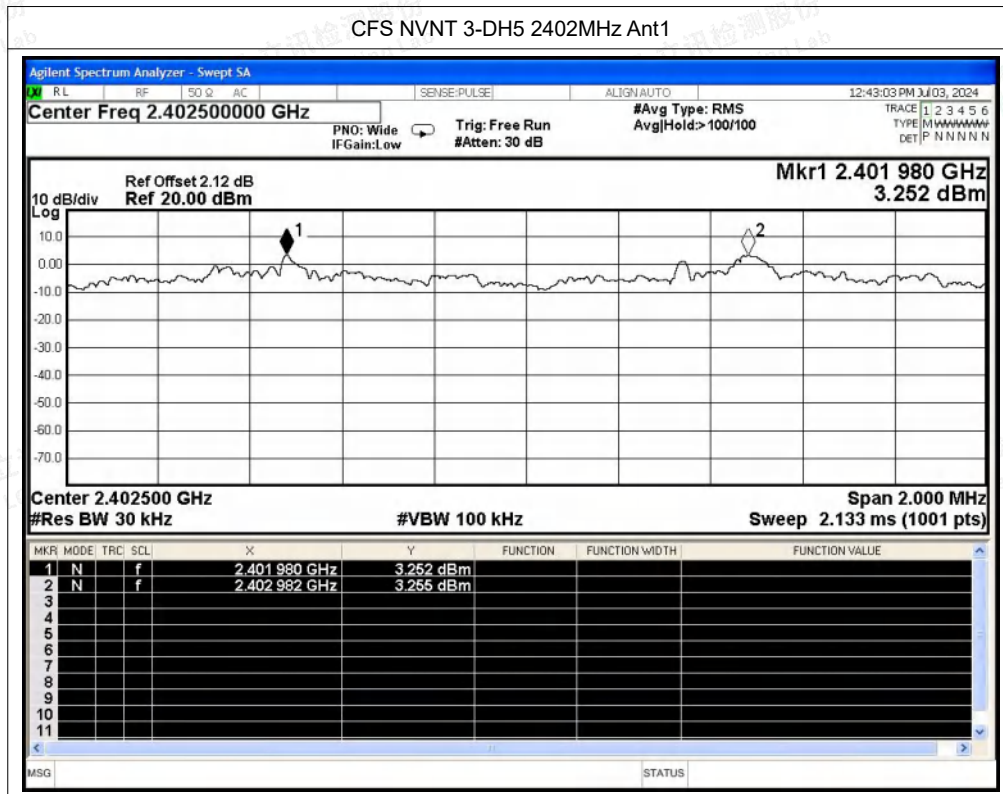


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A.4 Dwell Time

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	2.887	346.44	120	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.892	315.228	109	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.894	318.34	110	31600	400	Pass

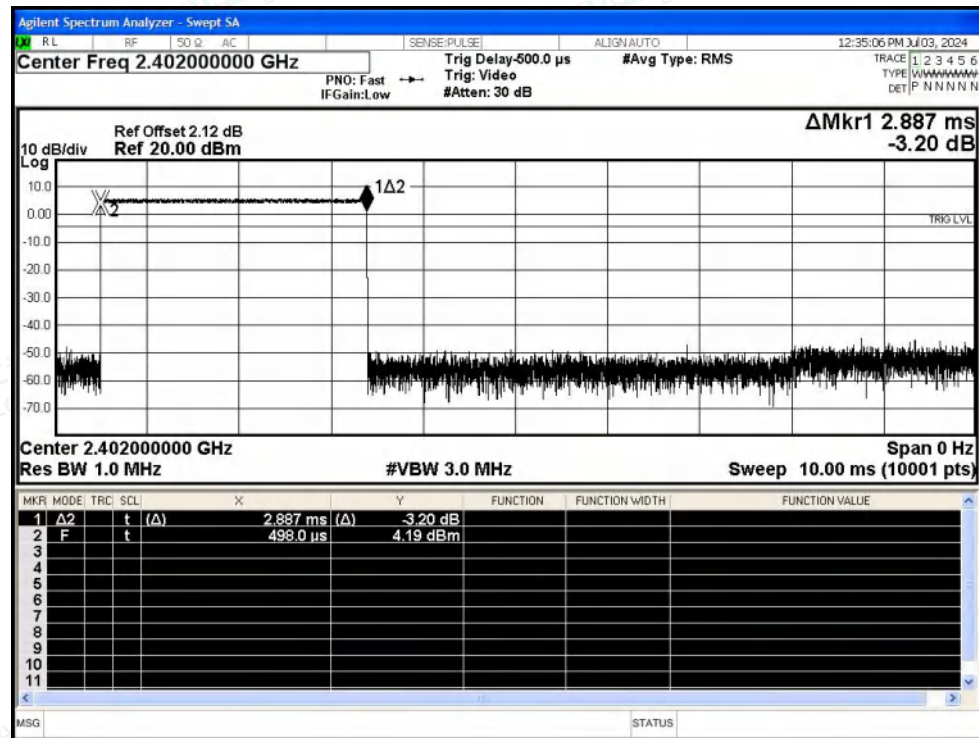


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518000, China
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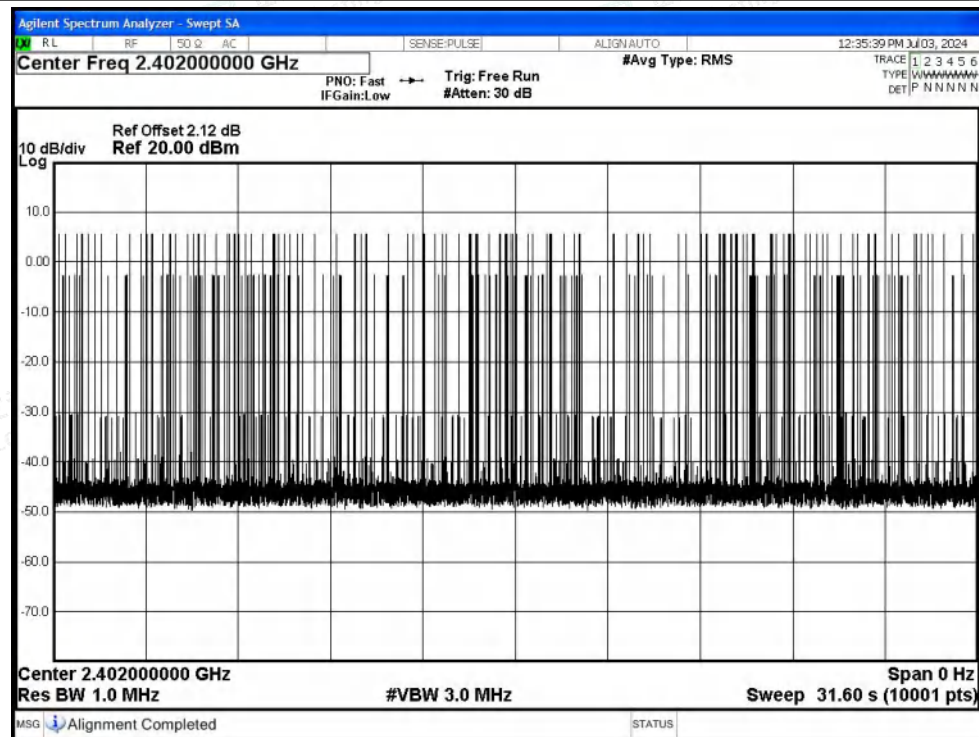


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

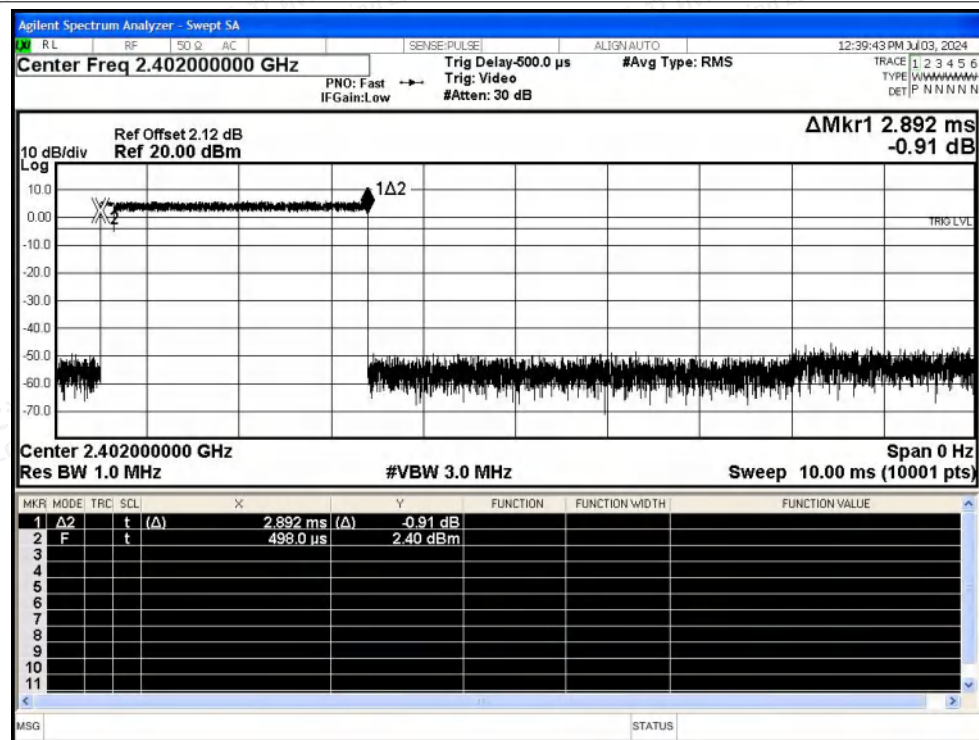


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

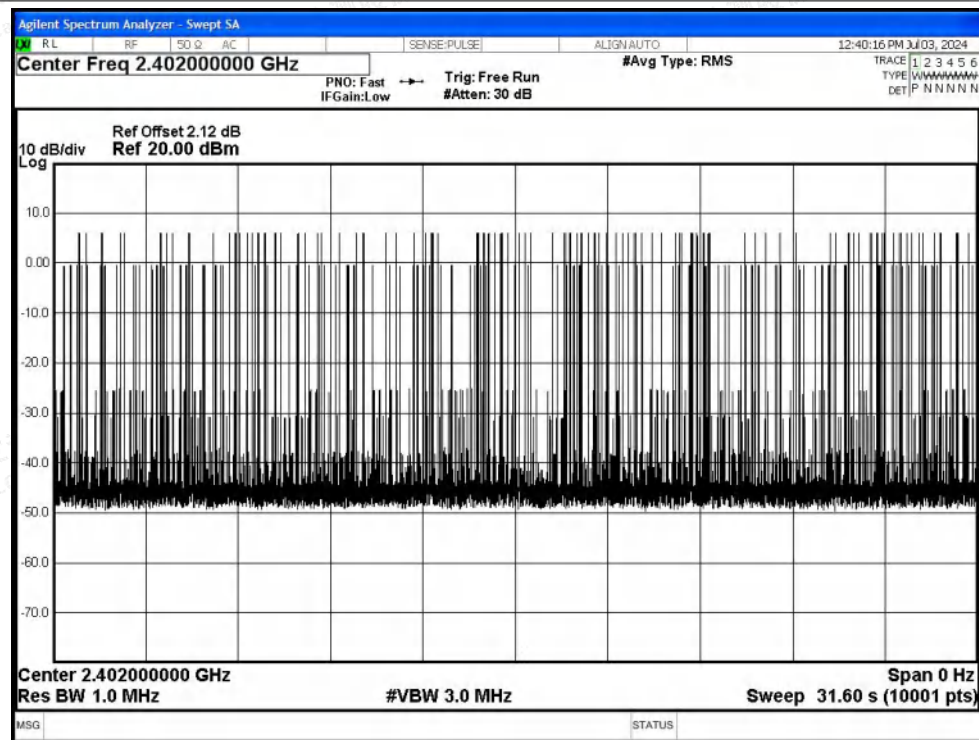




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

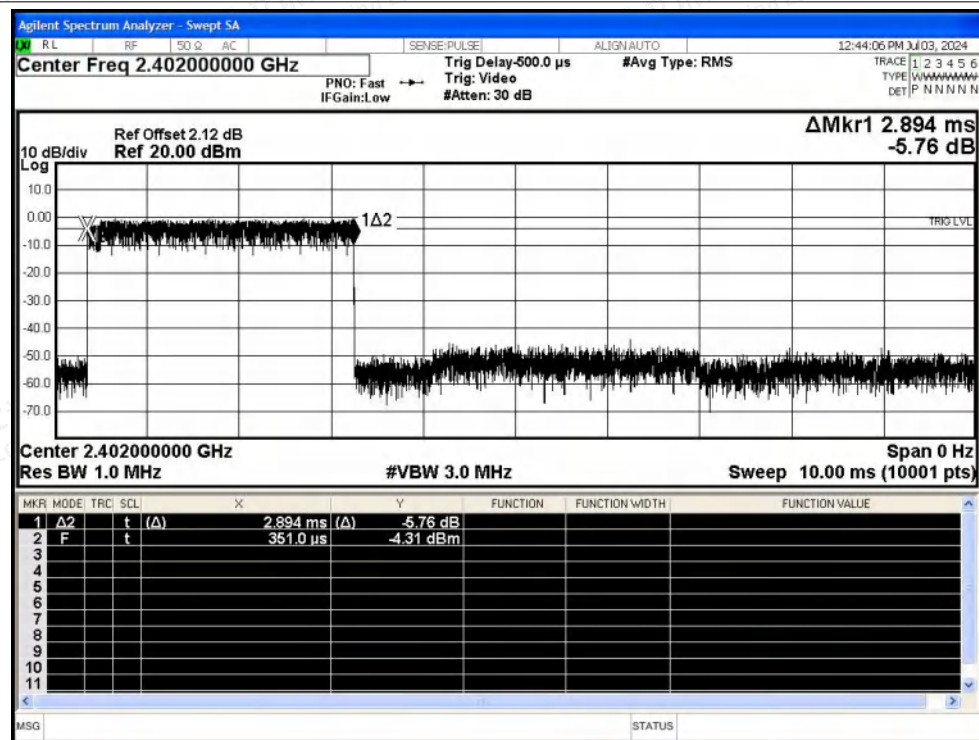


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

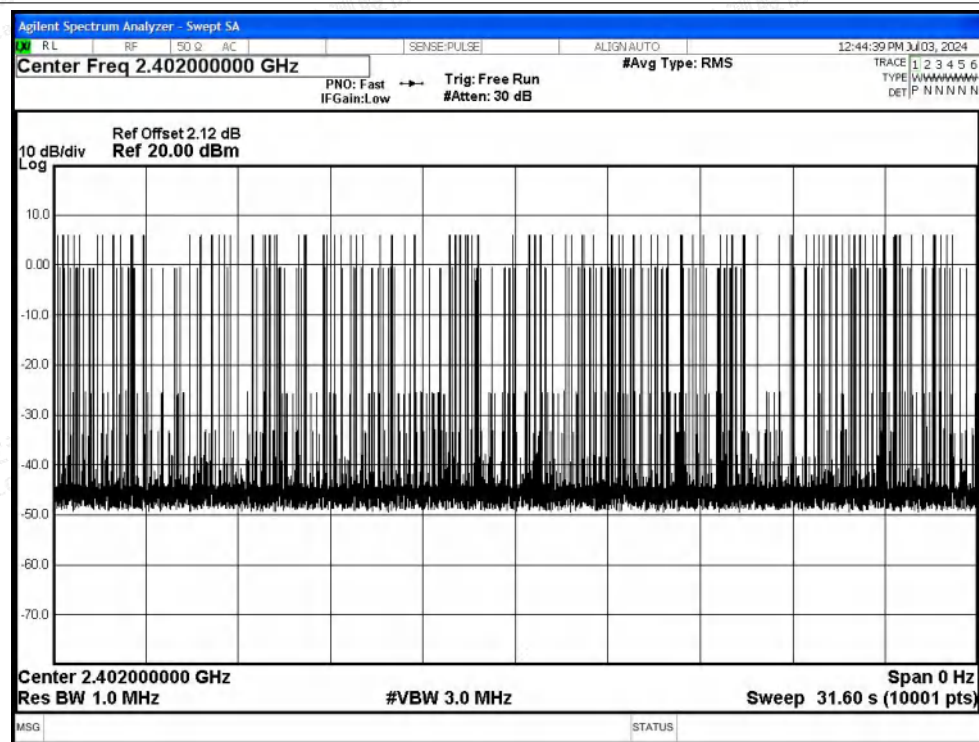




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

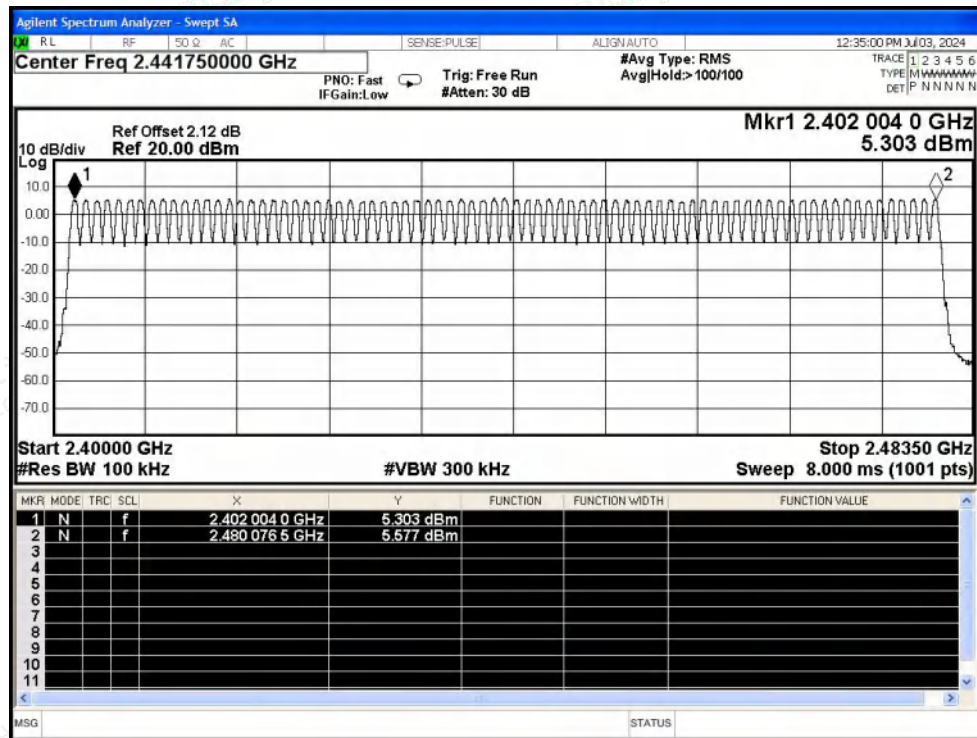
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



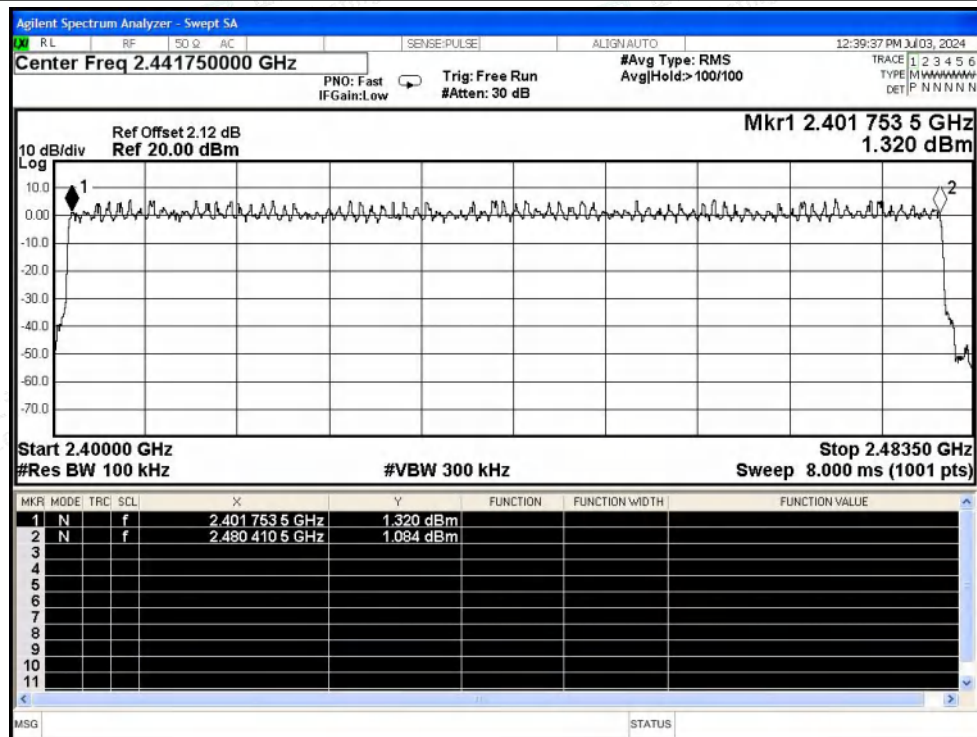


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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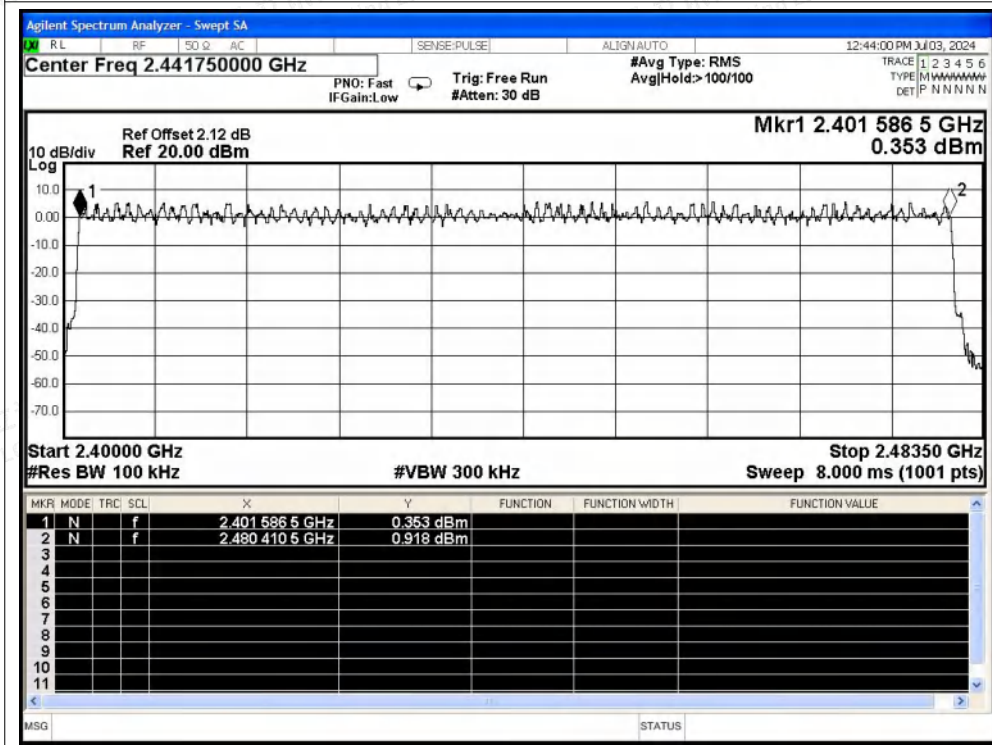
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Hopping No. NVNT 3-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	-48.11	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-59.33	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50.46	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.35	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-48.77	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-59.8	-20	Pass

Note: Max Value (dBc) = in the 100 kHz bandwidth within the band that contains the highest level of the desired power - the highest level of the Spurious Emission power



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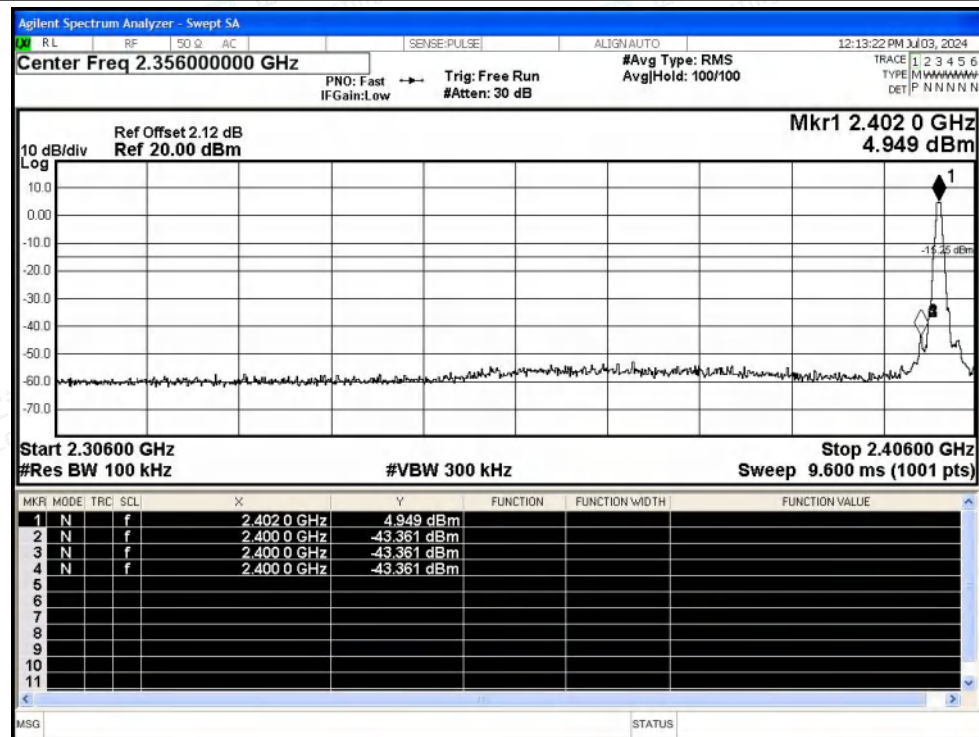


Test Graphs

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



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



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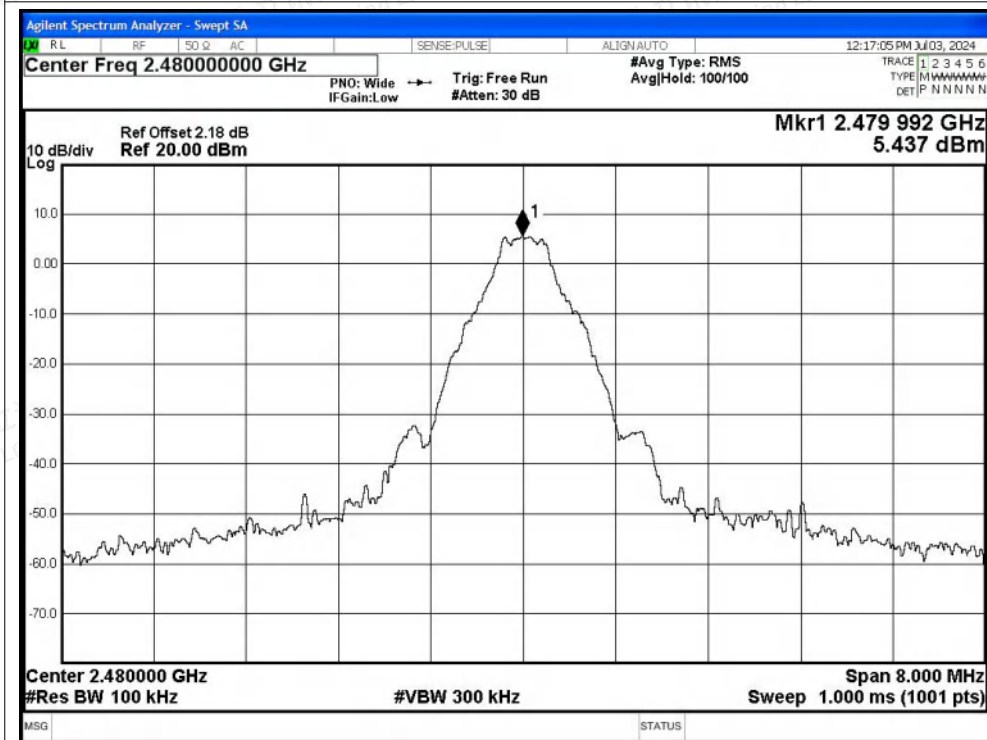
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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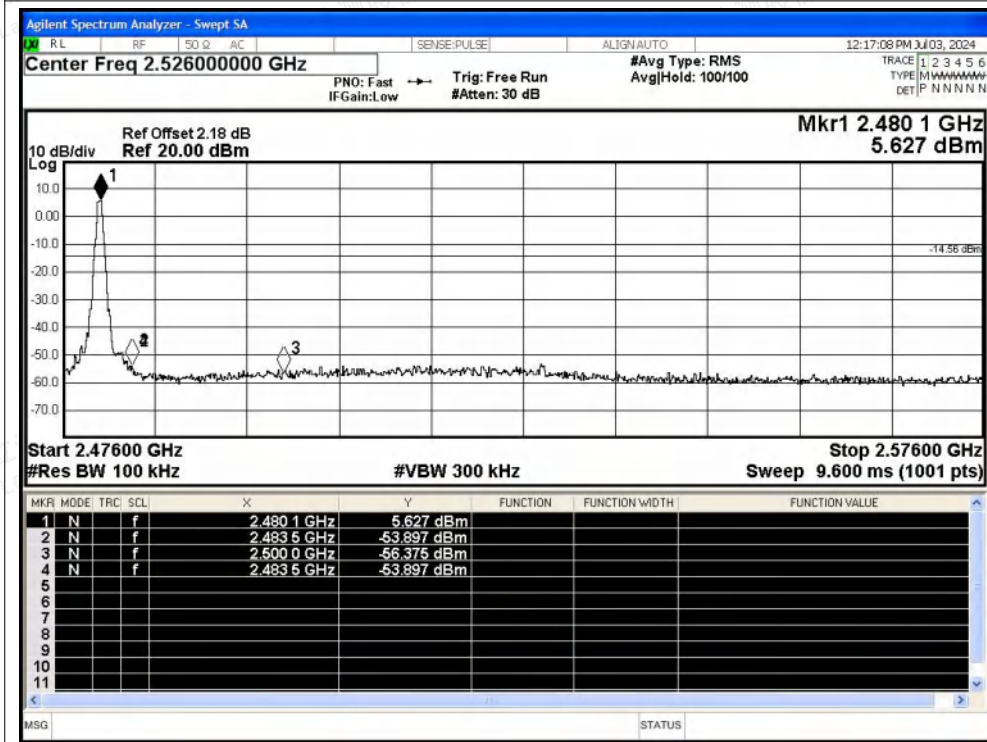
Scan code to check authenticity



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



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



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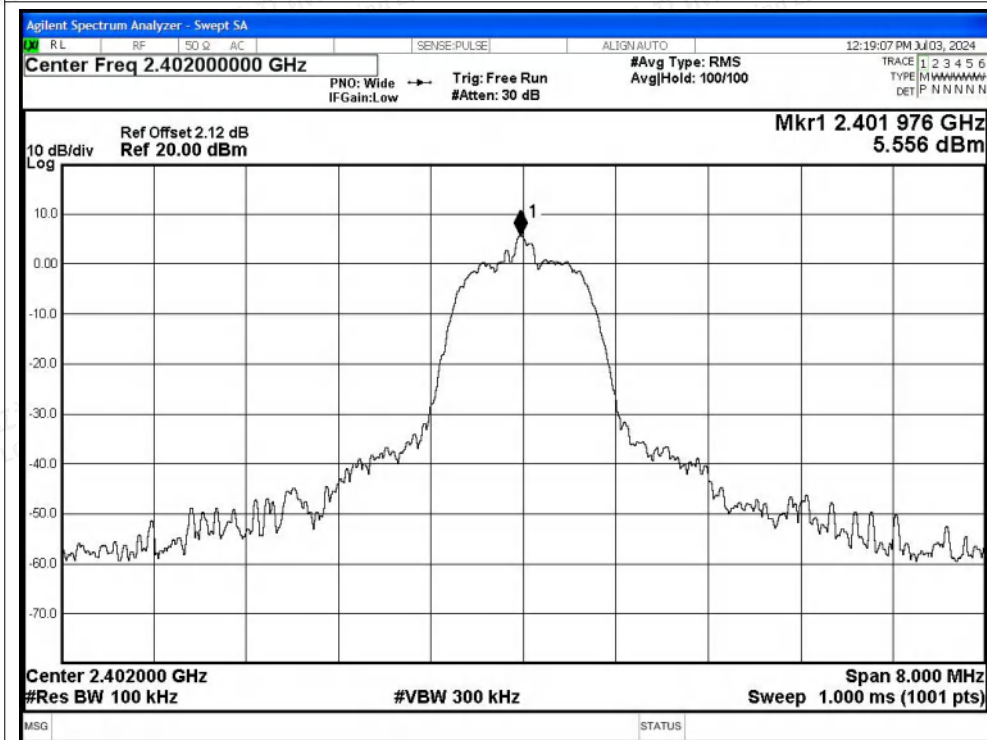
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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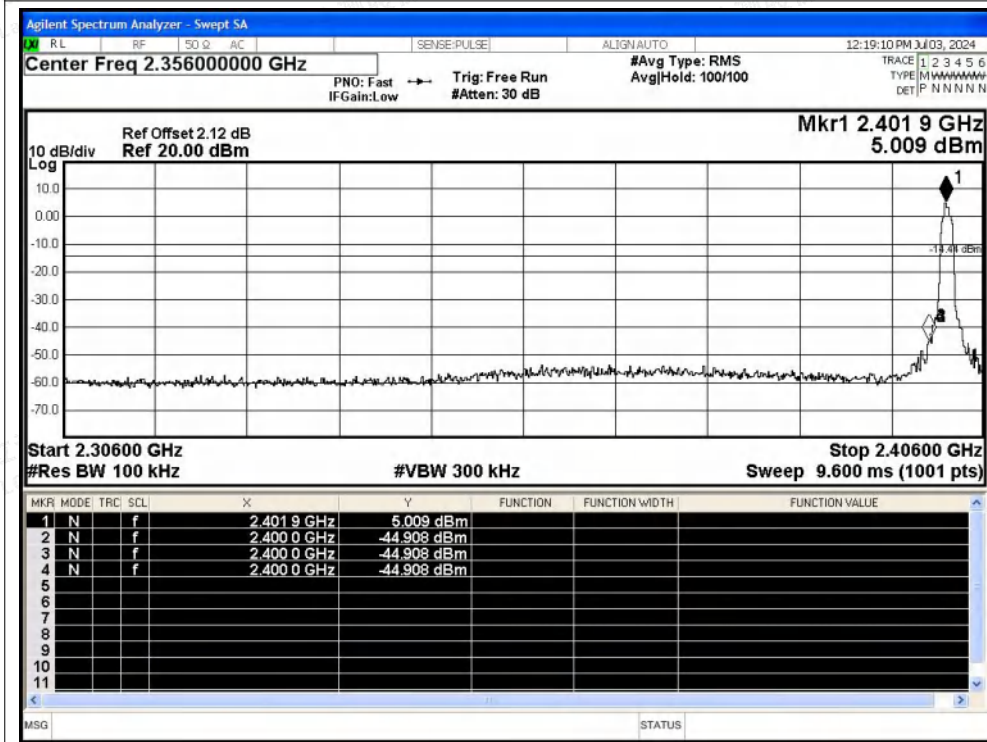
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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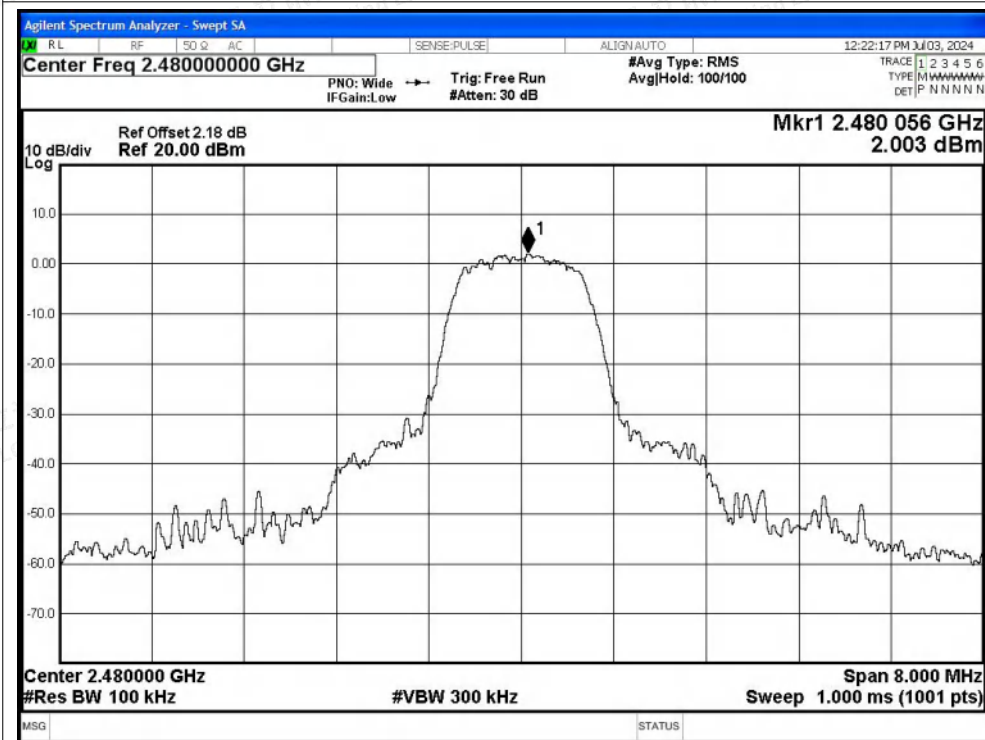
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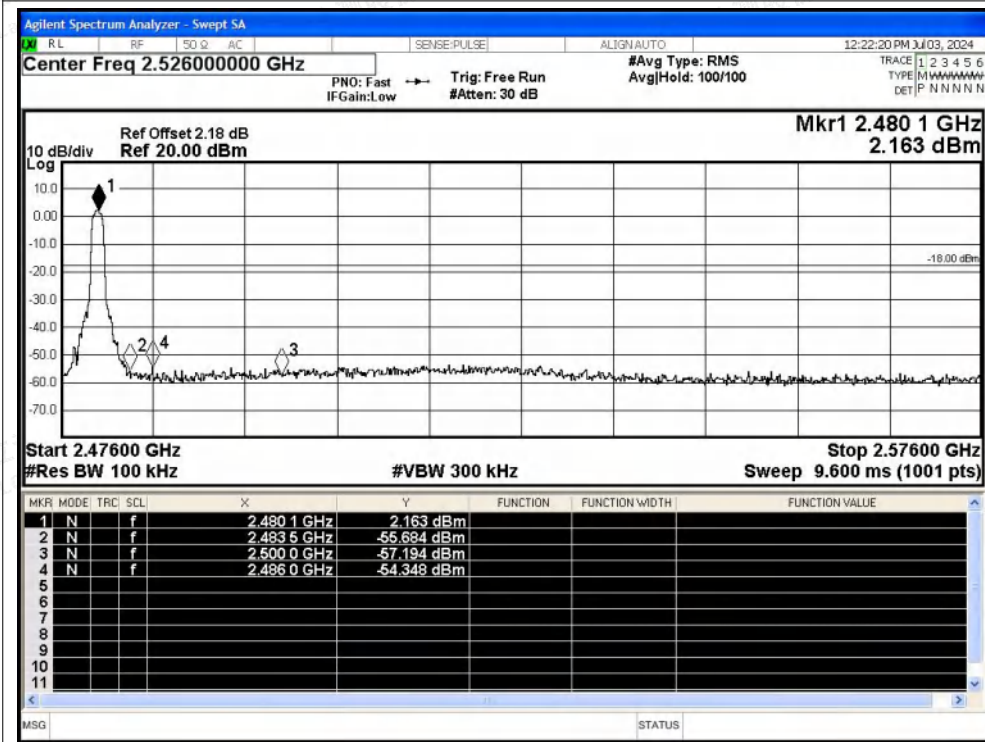
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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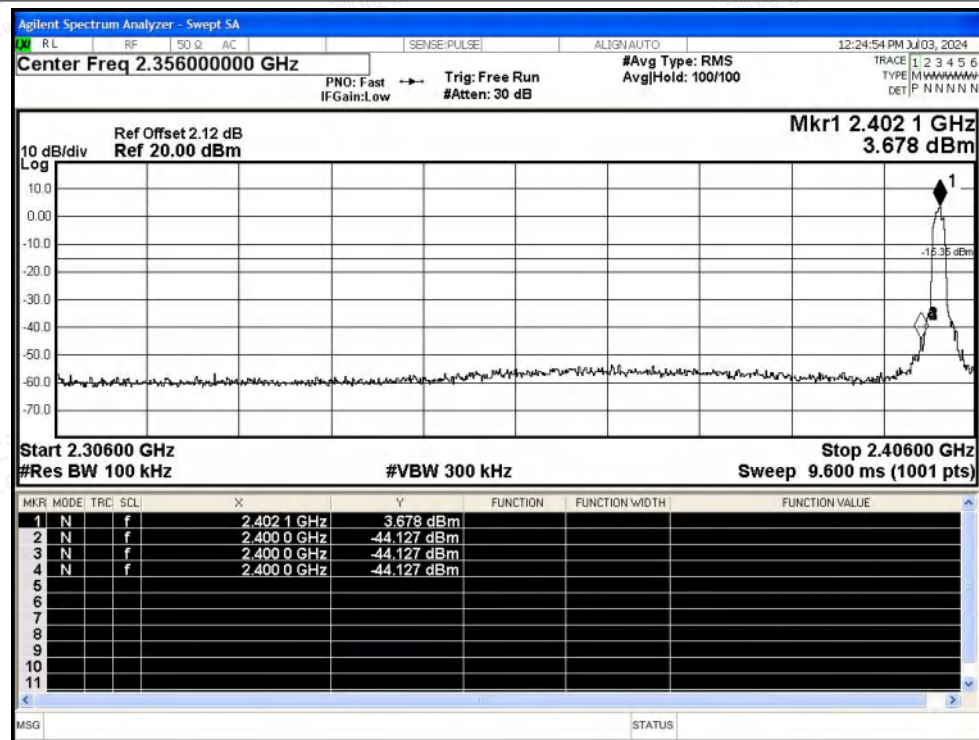
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

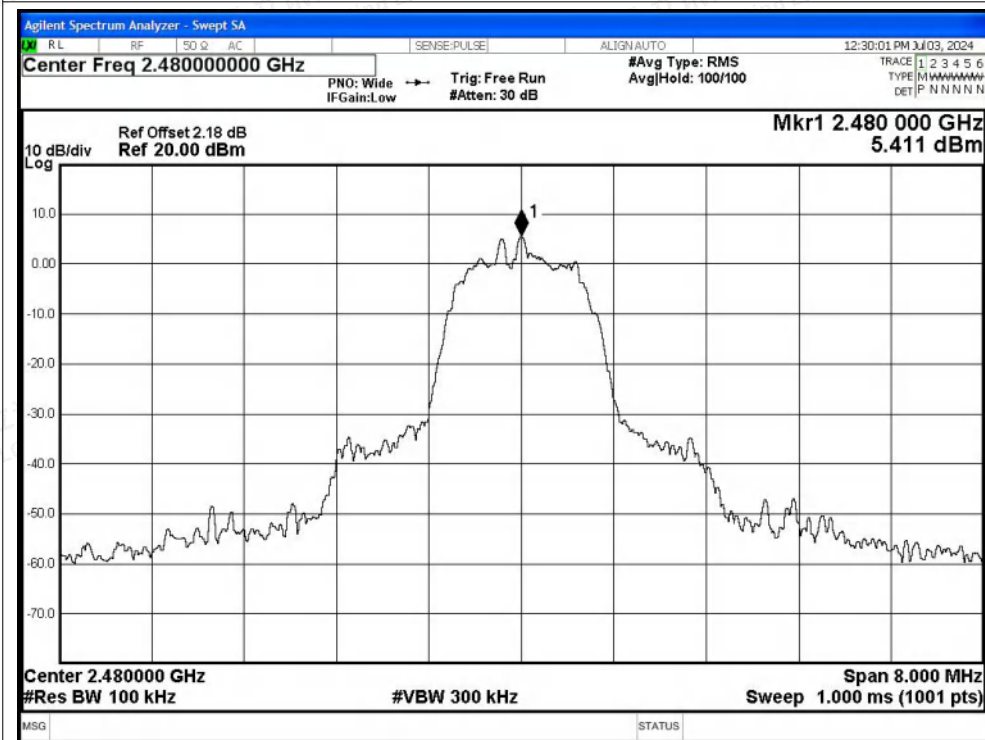


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

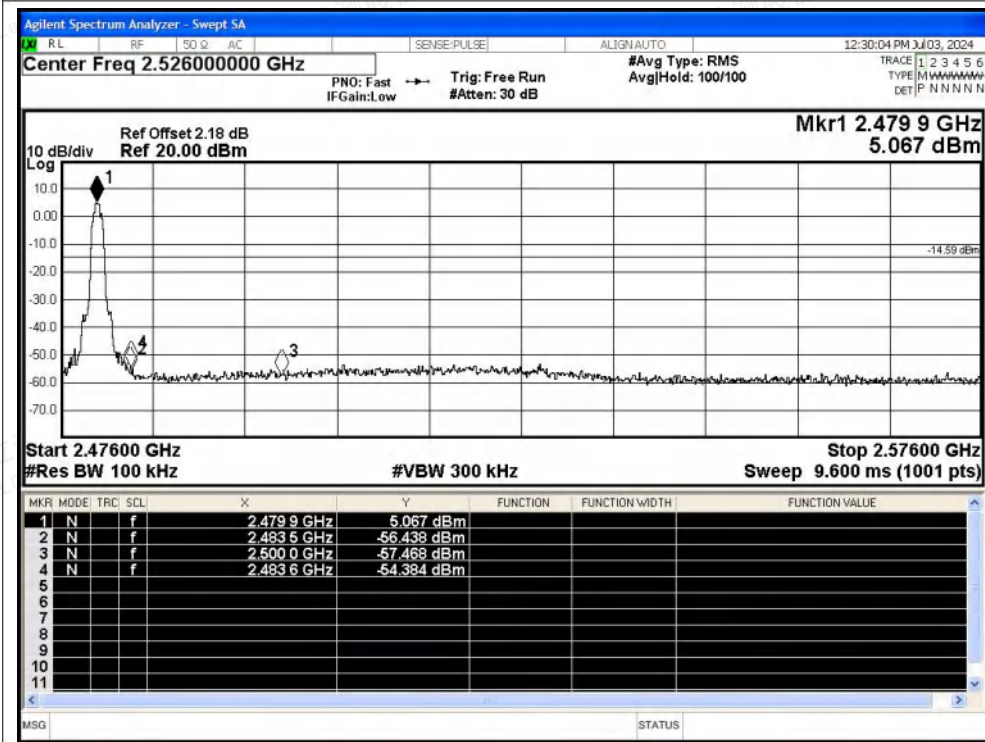




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-57.82	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.17	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-58.29	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-57.1	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-57.79	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-58.04	-20	Pass

Note: Max Value (dBc) = in the 100 kHz bandwidth within the band that contains the highest level of the desired power - the highest level of the Spurious Emission power



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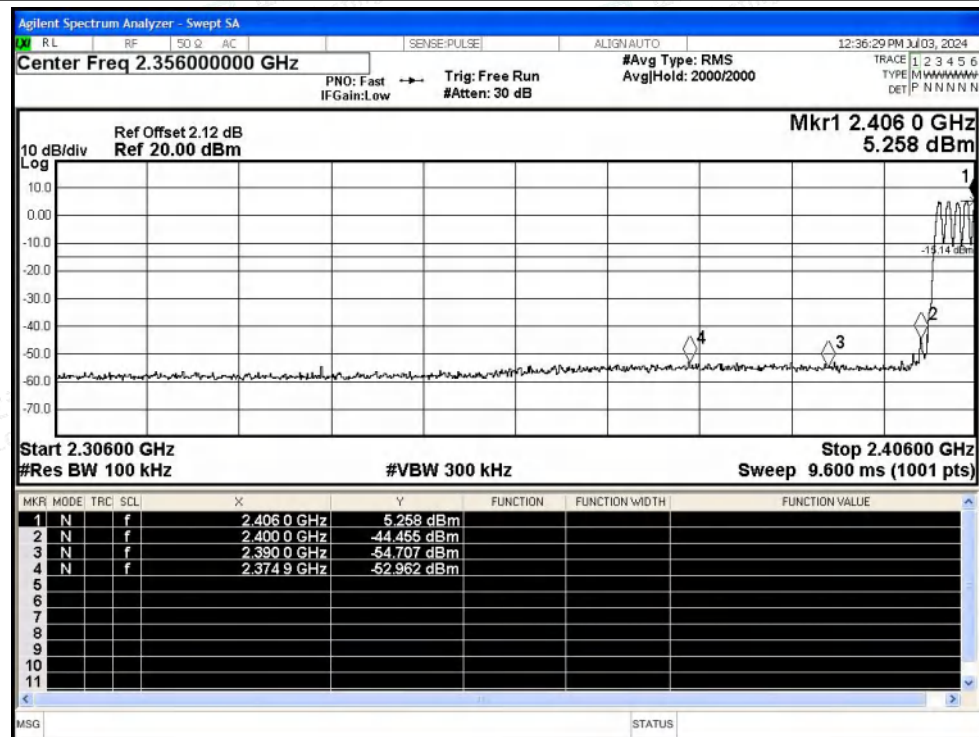


Test Graphs

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



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



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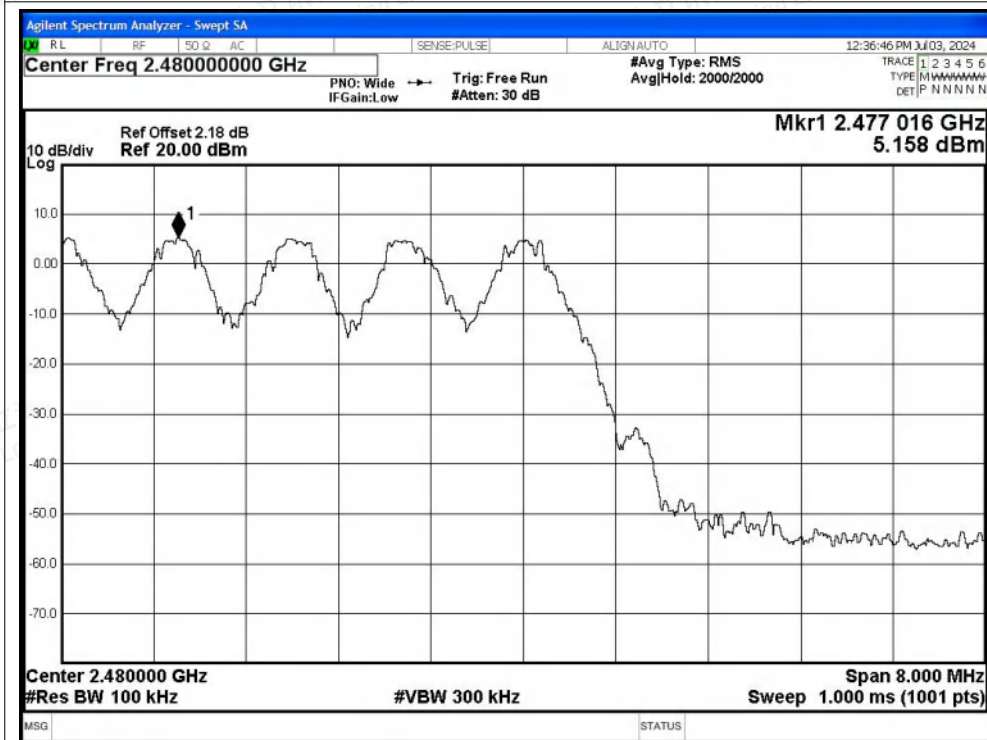
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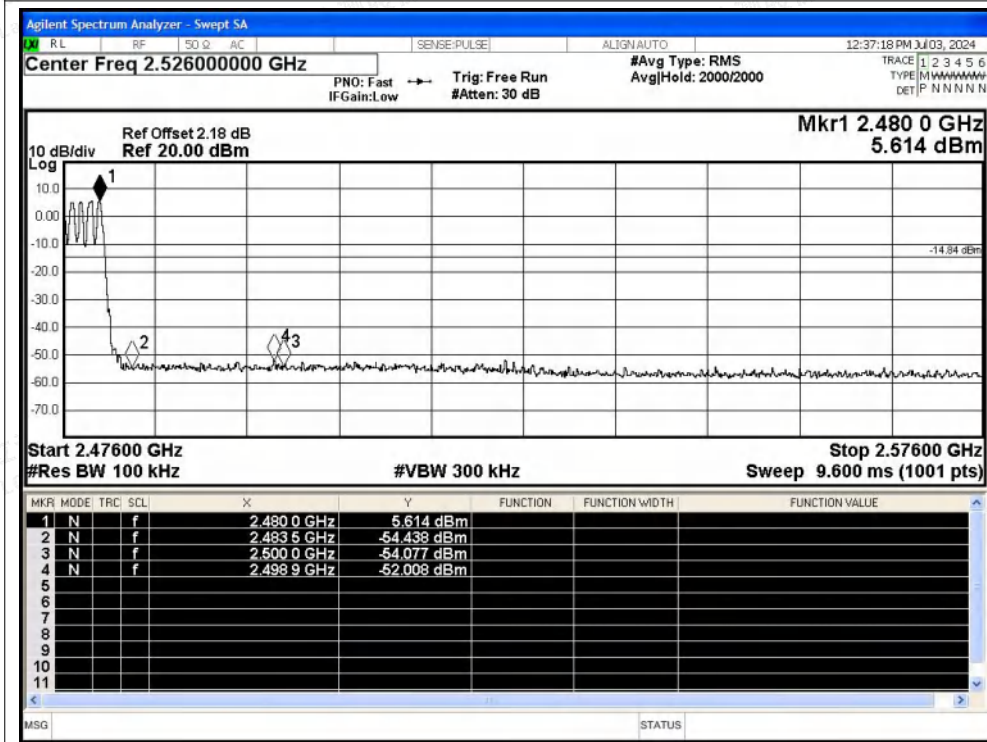
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

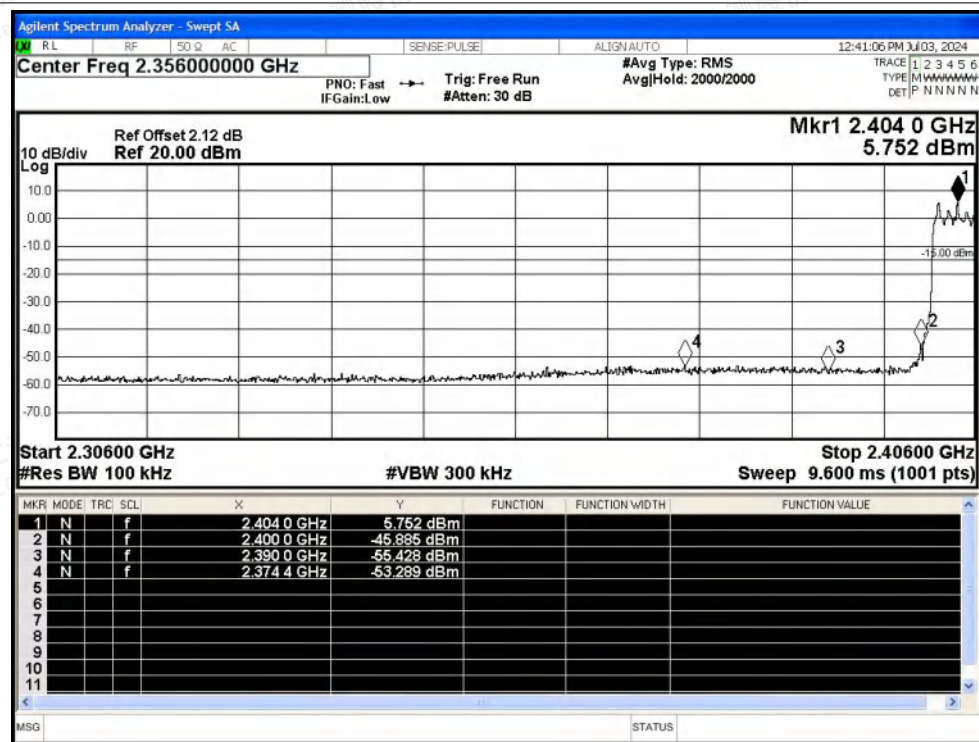




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

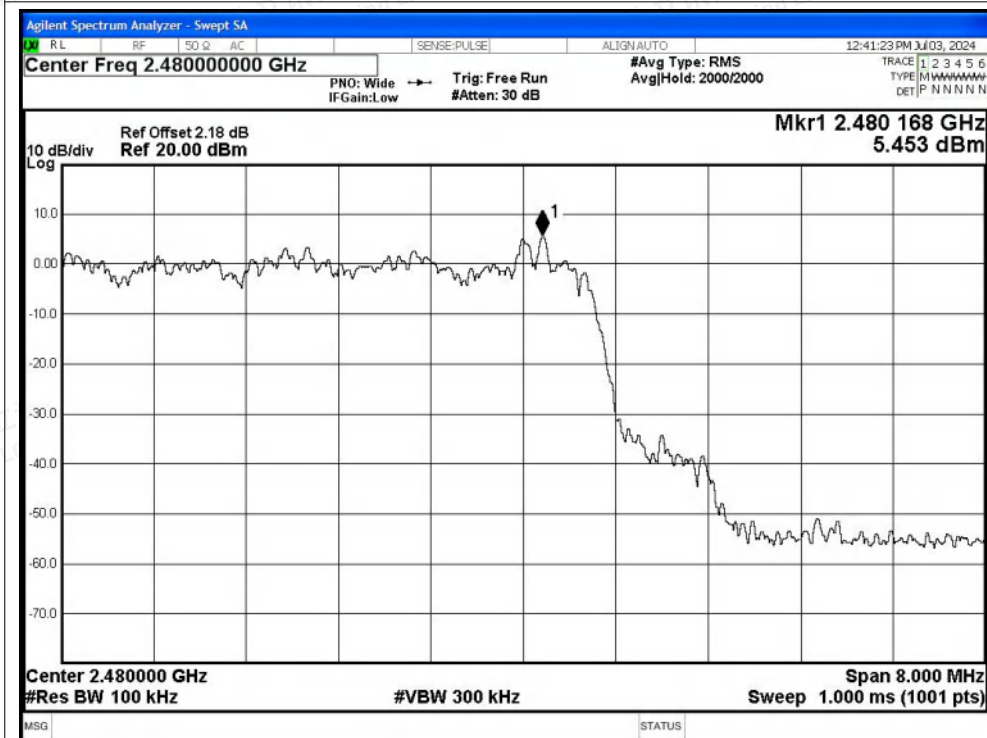


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

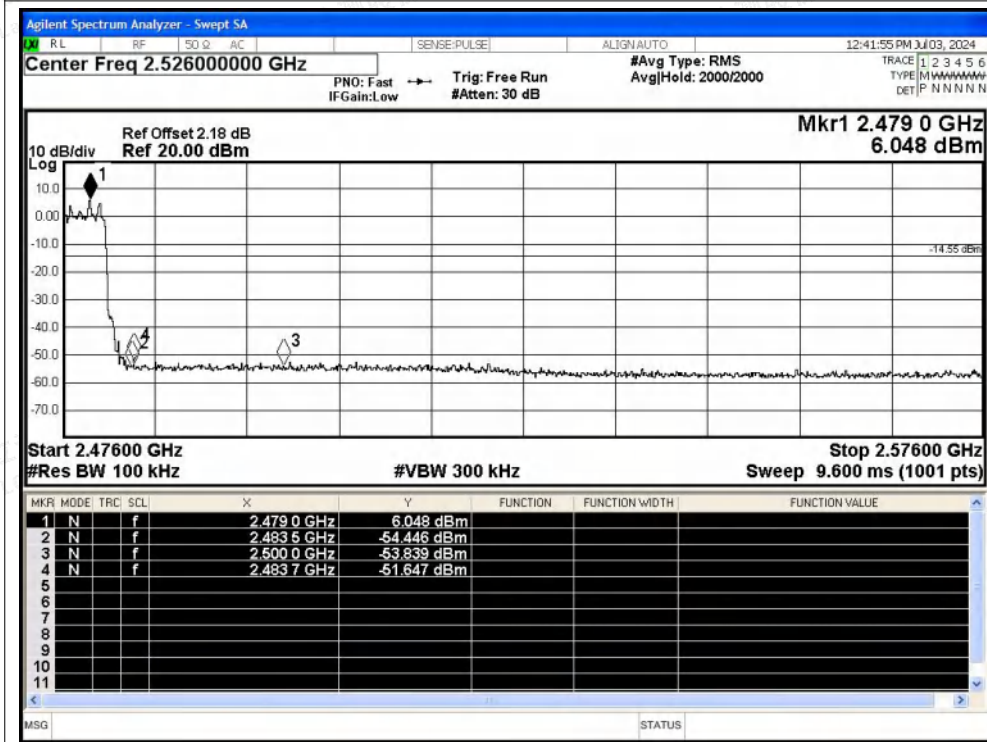




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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



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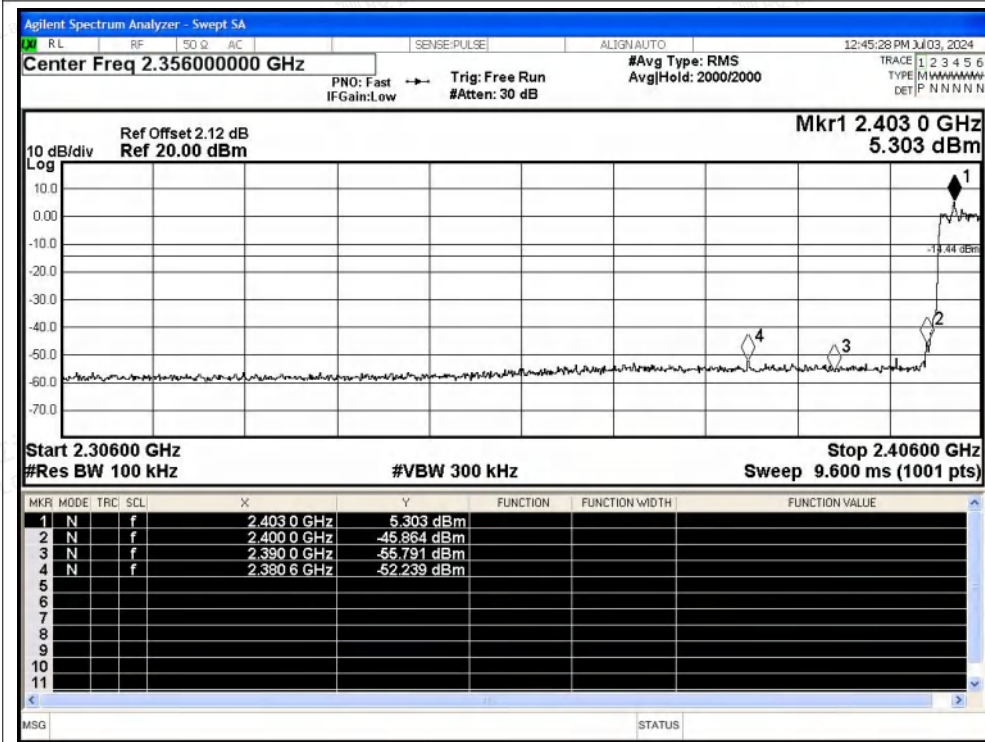
Scan code to check authenticity



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



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



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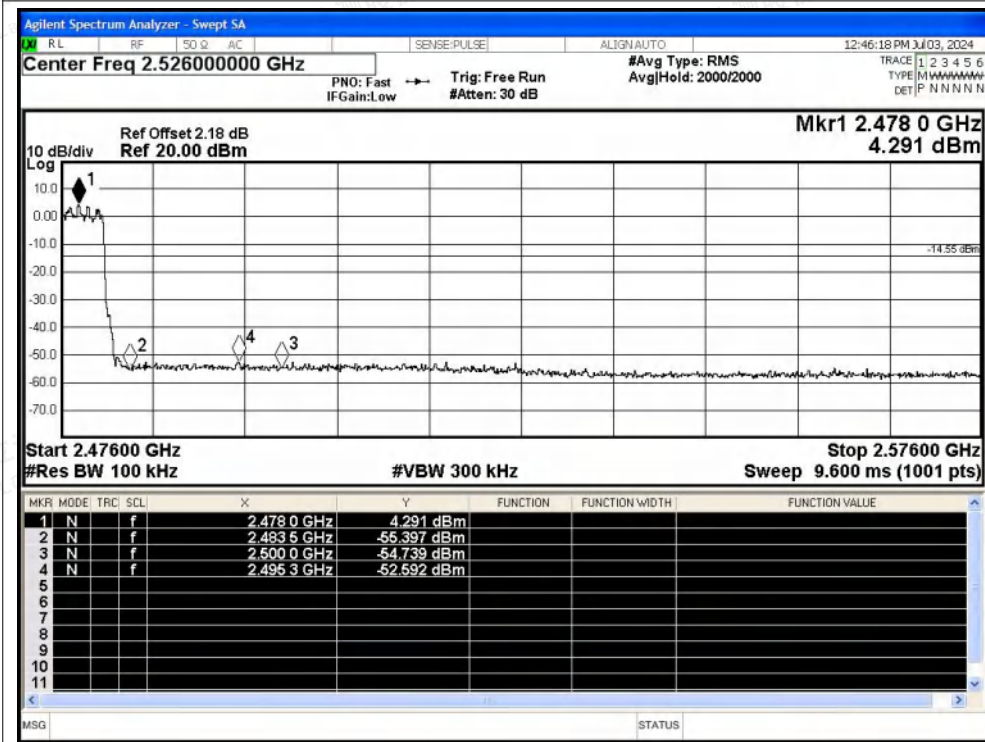
Scan code to check authenticity



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz 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	-48.78	-20	Pass
NVNT	1-DH5	2441	Ant1	-51.94	-20	Pass
NVNT	1-DH5	2480	Ant1	-50.61	-20	Pass
NVNT	2-DH5	2402	Ant1	-48.35	-20	Pass
NVNT	2-DH5	2441	Ant1	-51.03	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.91	-20	Pass
NVNT	3-DH5	2402	Ant1	-48.45	-20	Pass
NVNT	3-DH5	2441	Ant1	-51.57	-20	Pass
NVNT	3-DH5	2480	Ant1	-50.72	-20	Pass

Note: Max Value (dBc) = in the 100 kHz bandwidth within the band that contains the highest level of the desired power - the highest level of the Spurious Emission power

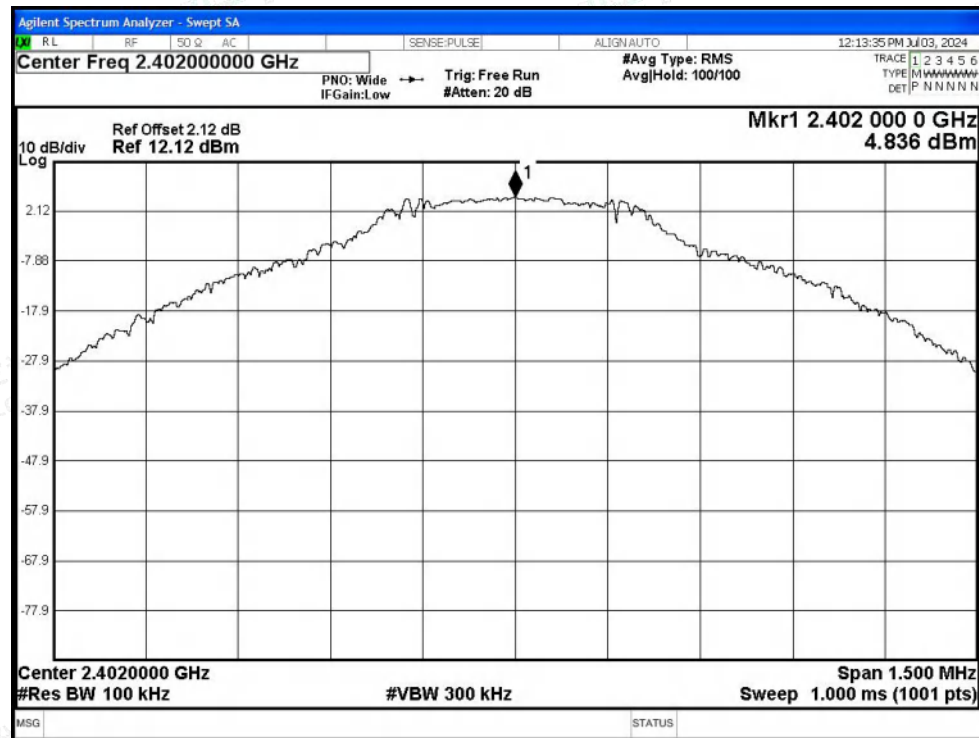


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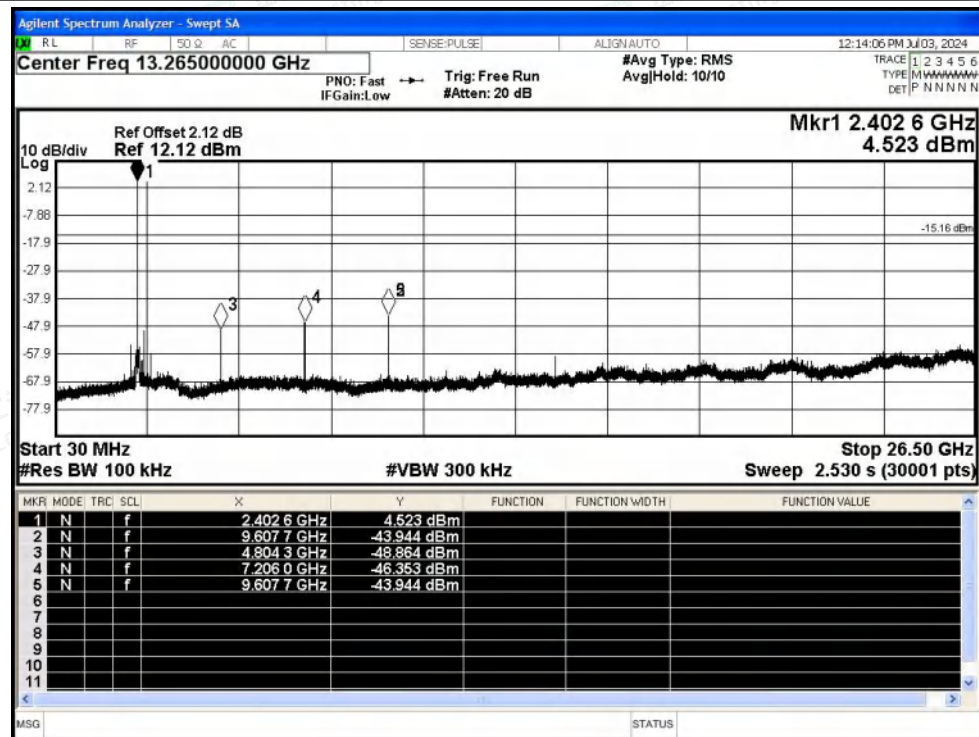


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

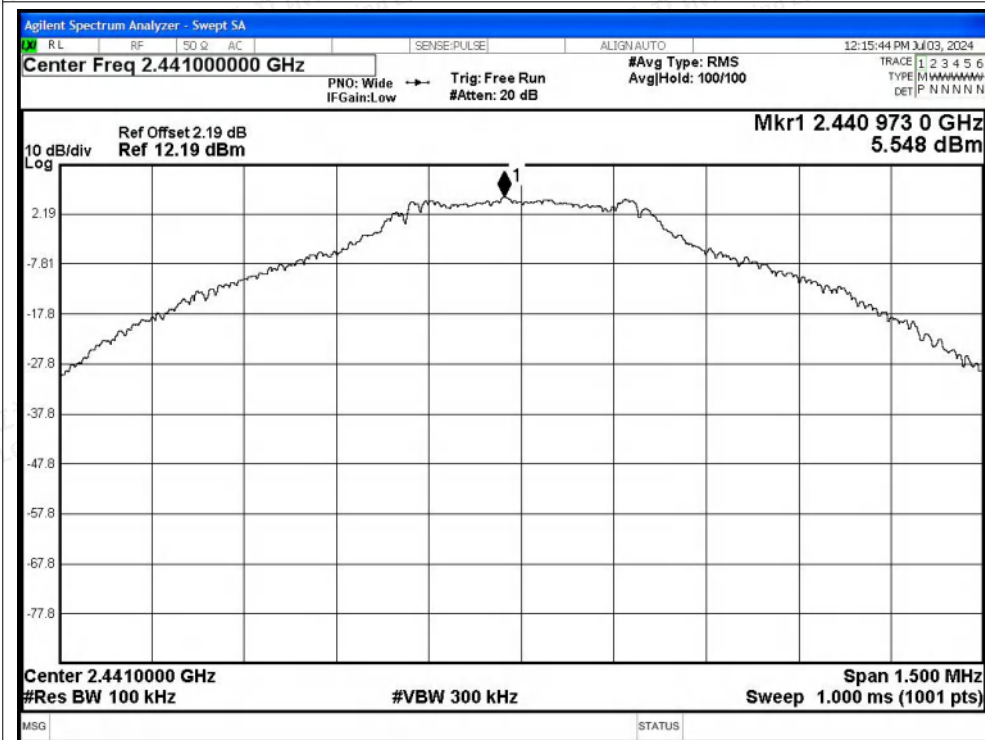
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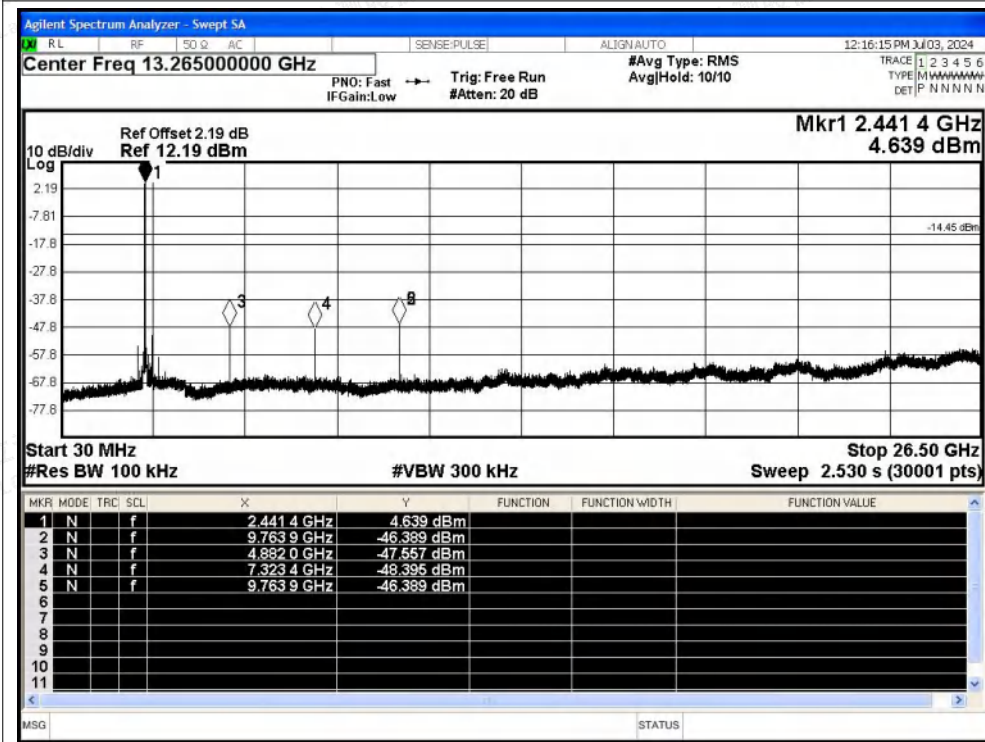
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

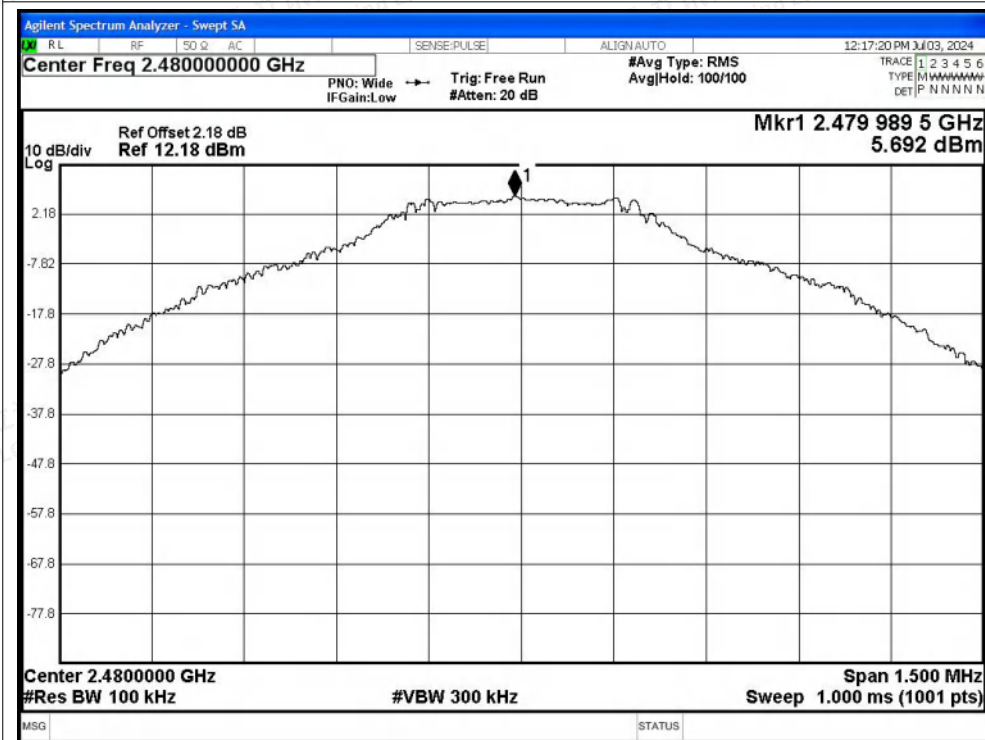
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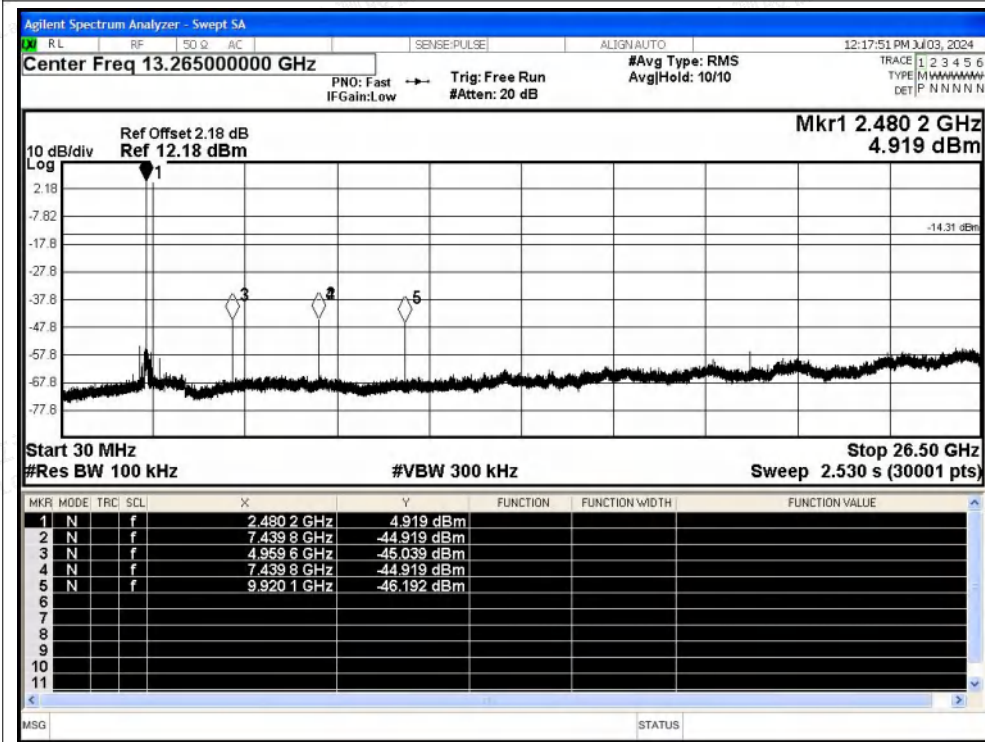
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

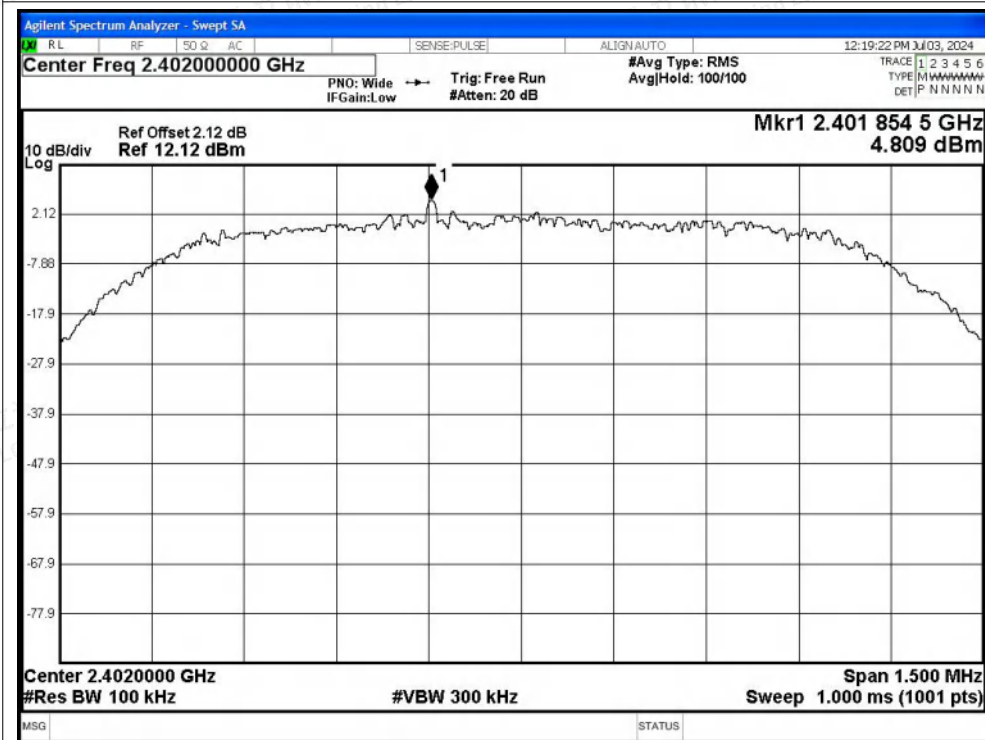
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

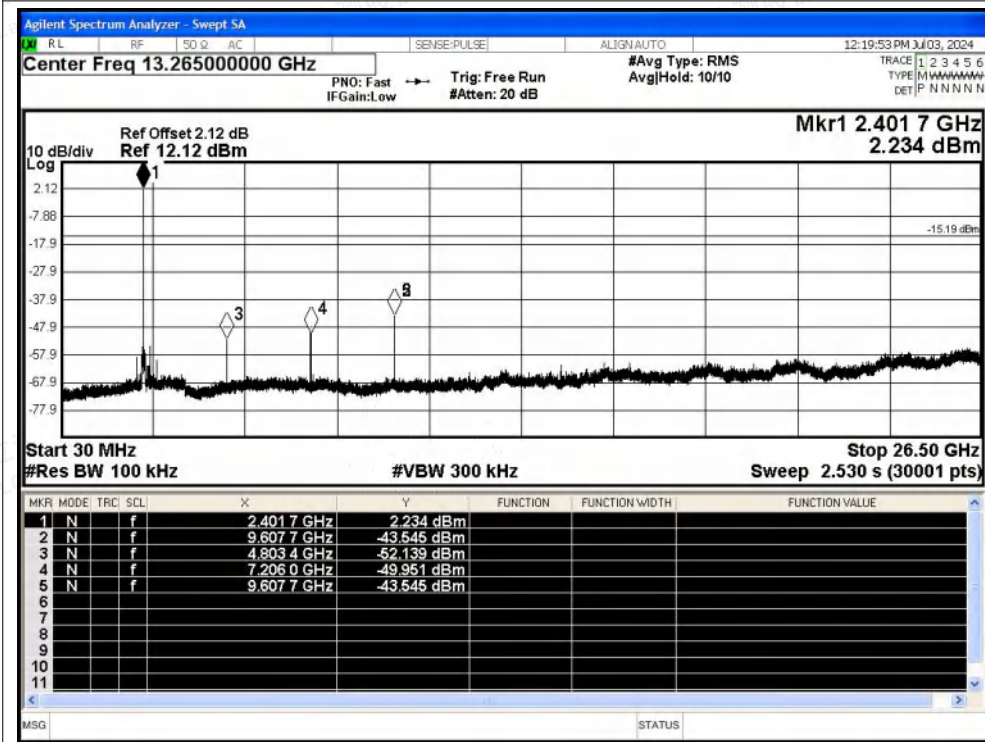
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

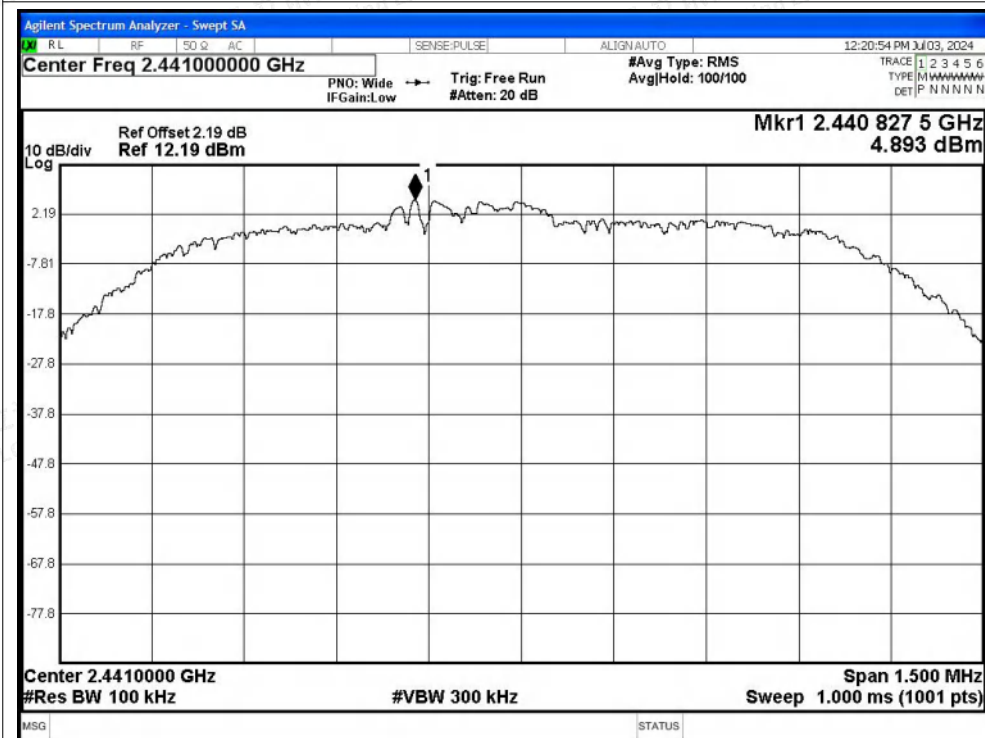
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

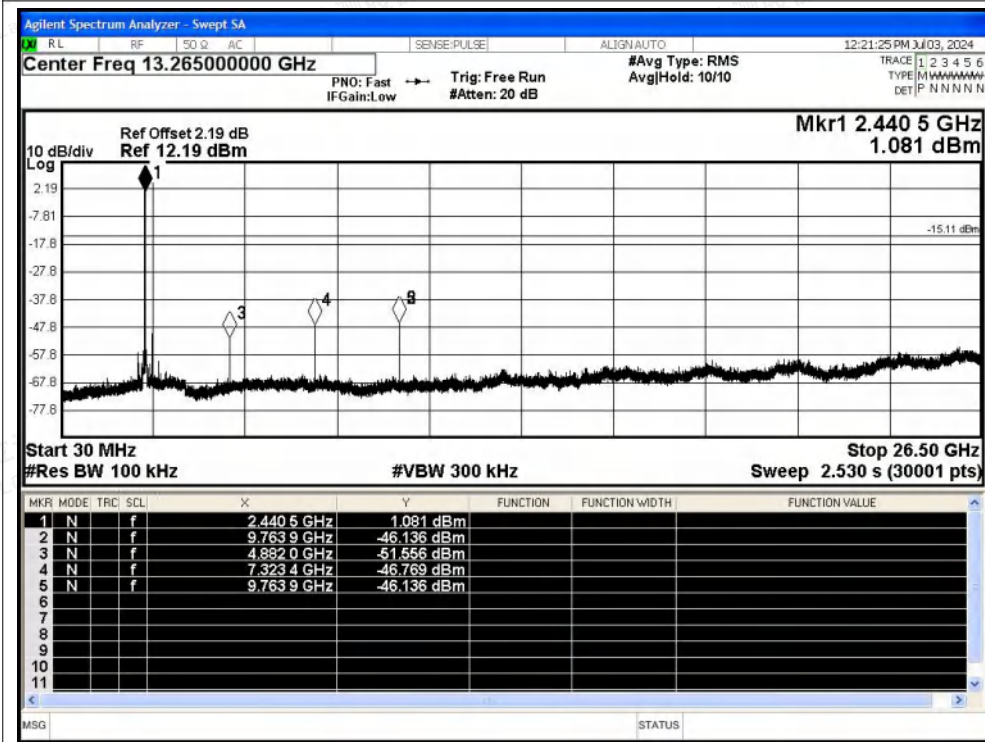
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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

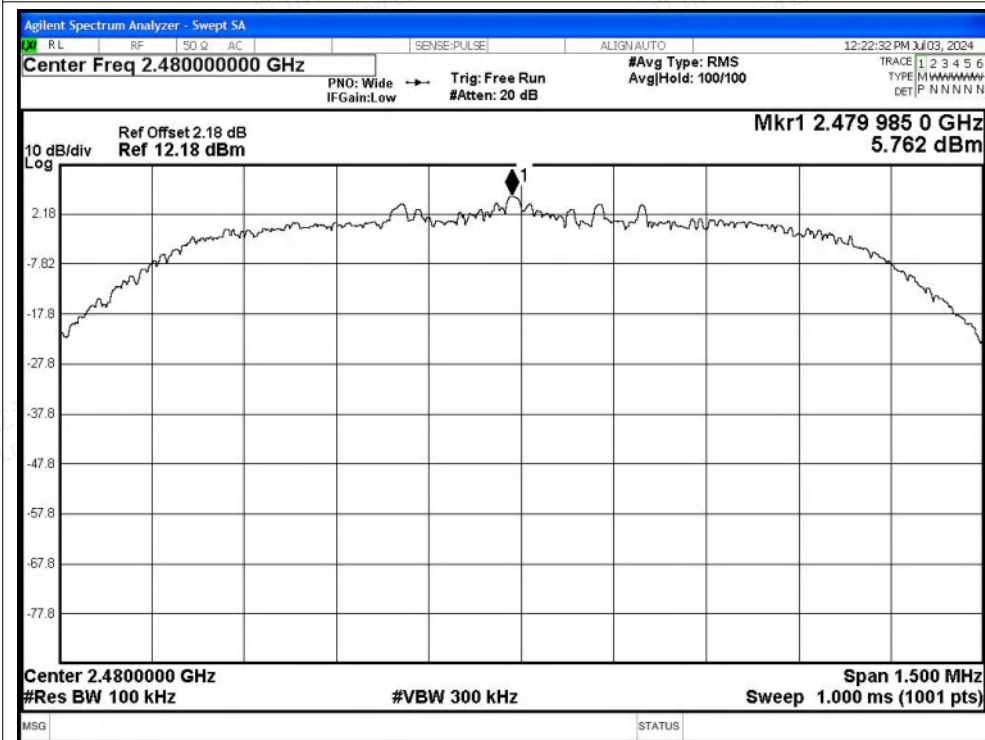
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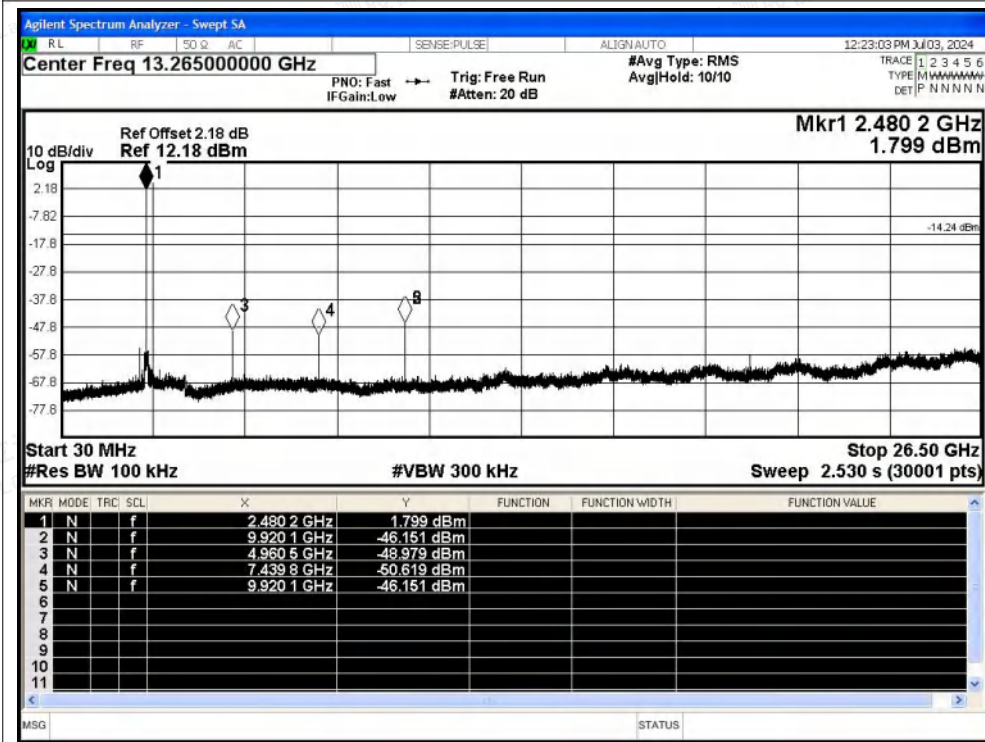
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

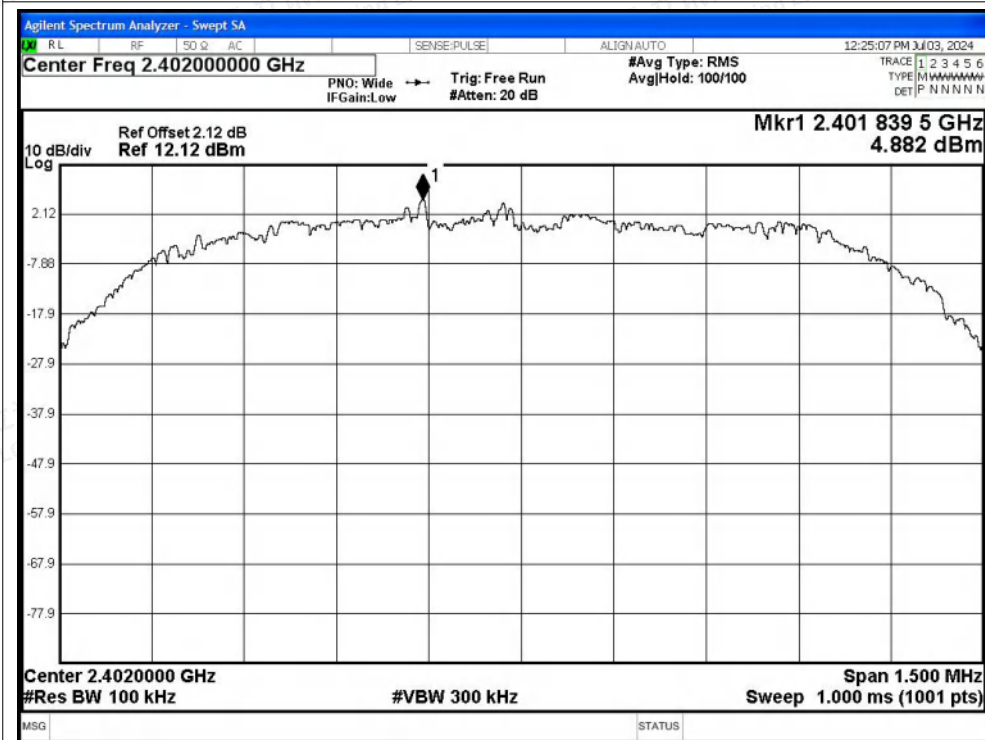
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

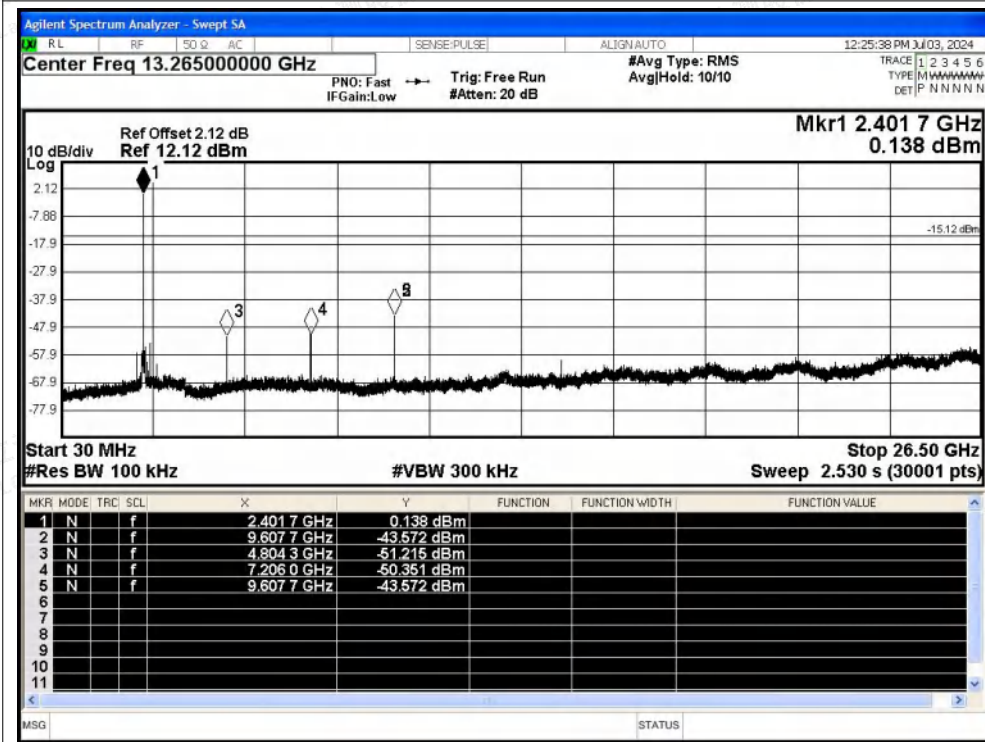
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Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

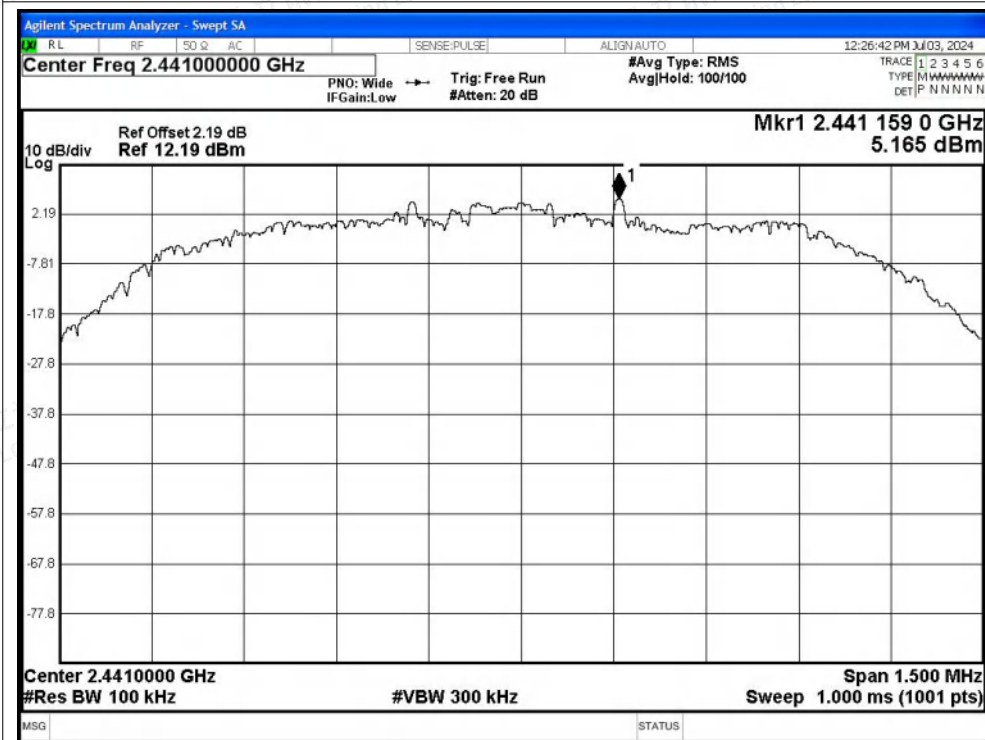
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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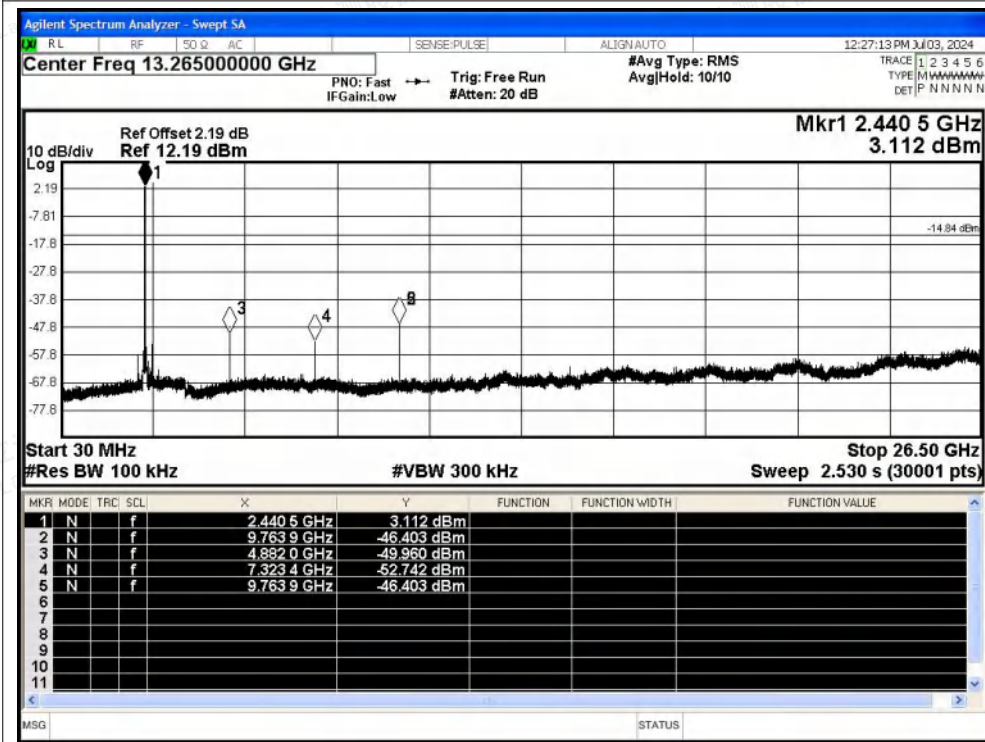
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

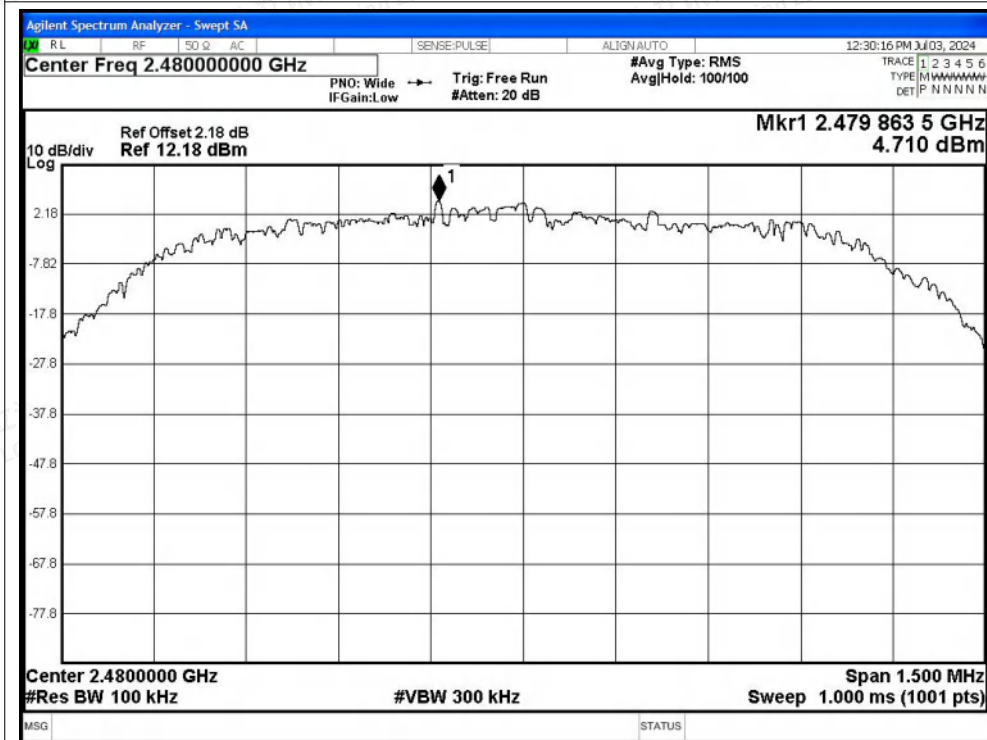
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

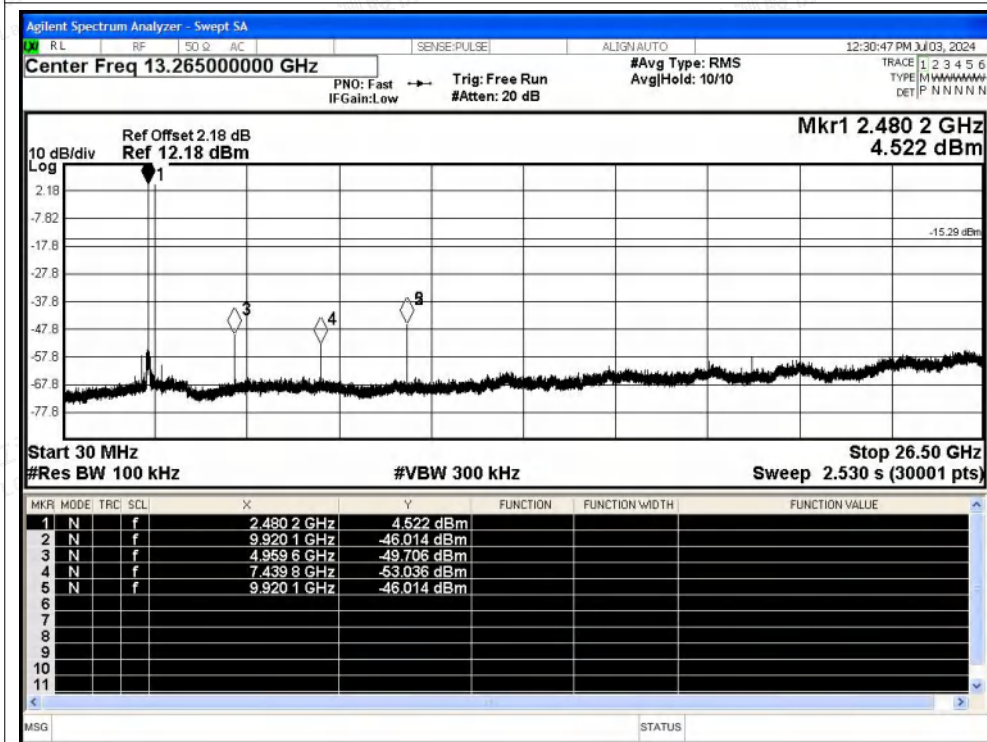
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

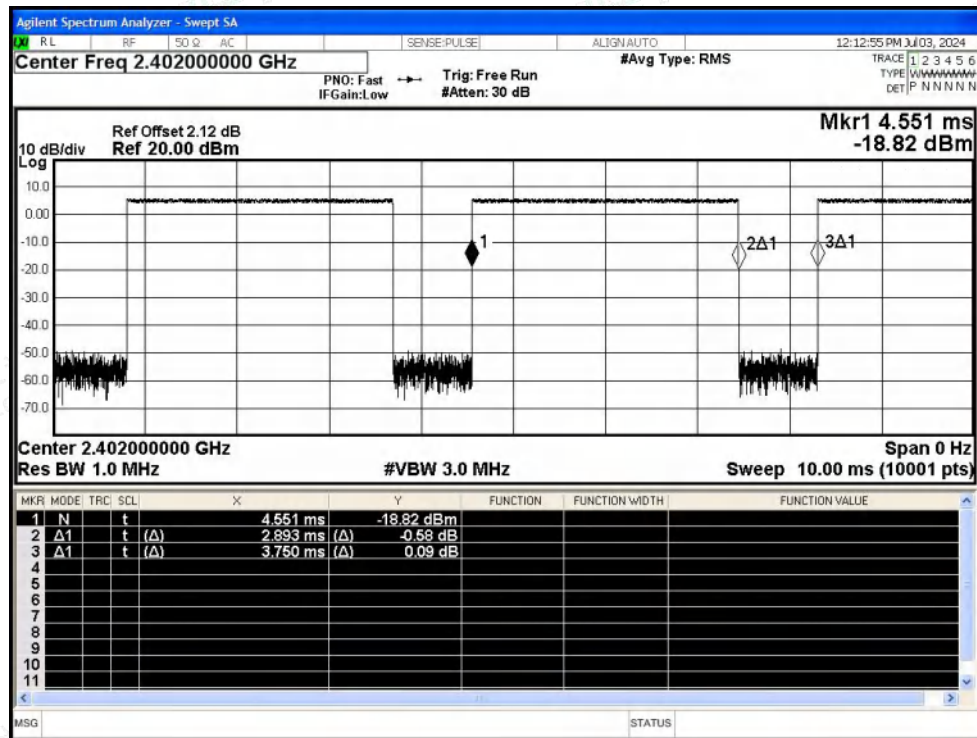
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.15	1.13	0.35
NVNT	1-DH5	2441	Ant1	77.17	1.13	0.35
NVNT	1-DH5	2480	Ant1	77.15	1.13	0.35
NVNT	2-DH5	2402	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2441	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2480	Ant1	77.31	1.12	0.34
NVNT	3-DH5	2402	Ant1	77.36	1.11	0.34
NVNT	3-DH5	2441	Ant1	77.33	1.12	0.34
NVNT	3-DH5	2480	Ant1	77.33	1.12	0.34



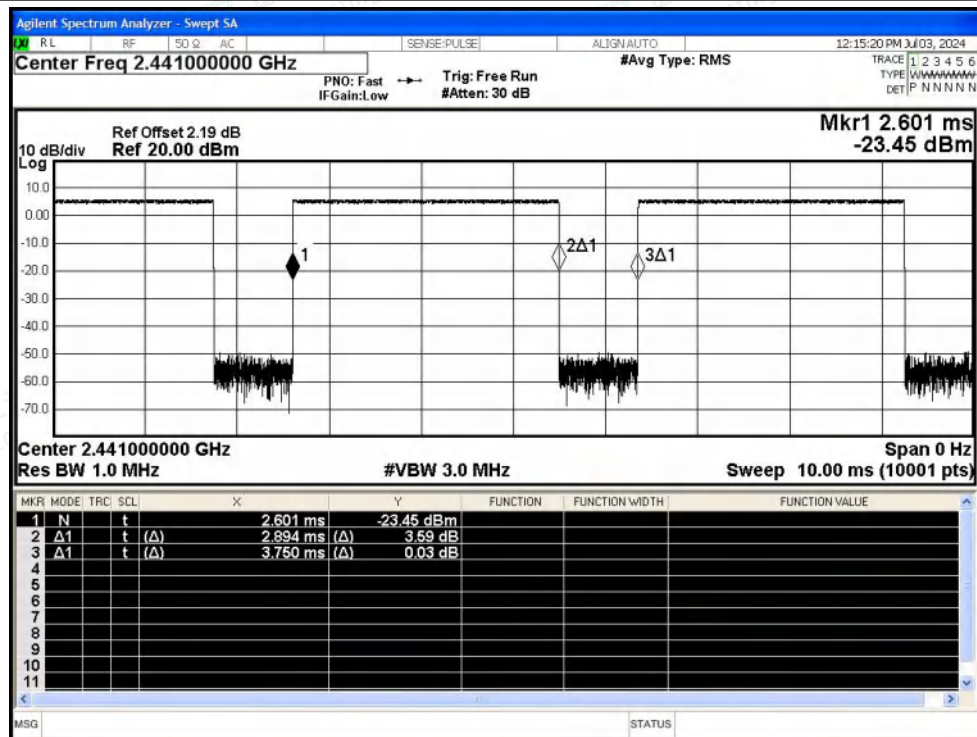


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

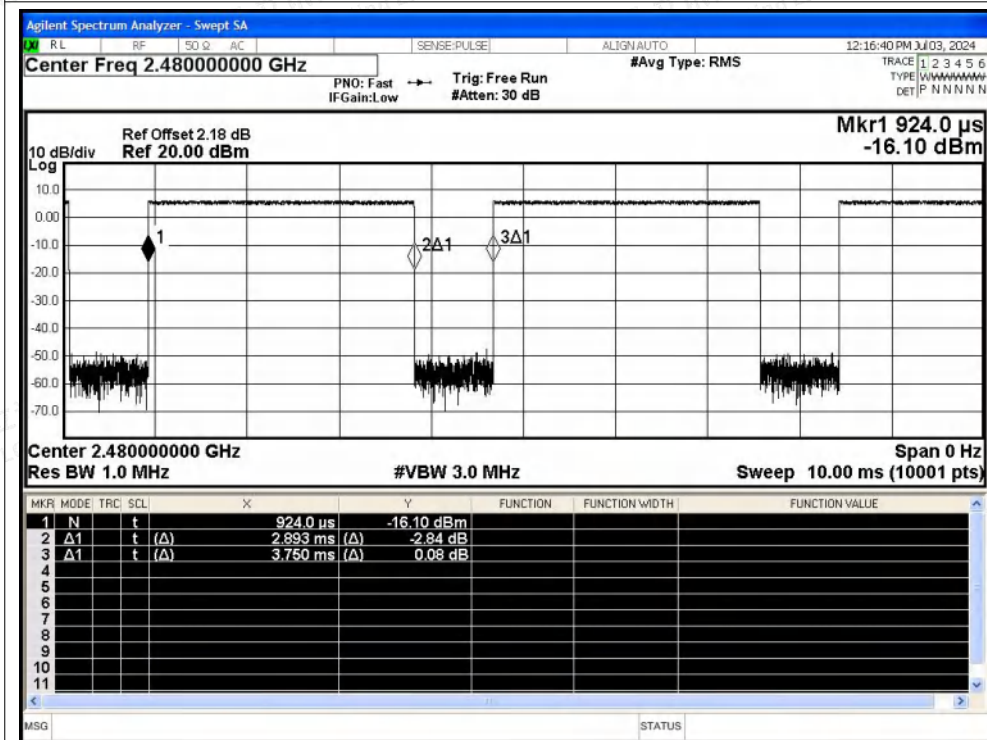


Duty Cycle NVNT 1-DH5 2441MHz Ant1

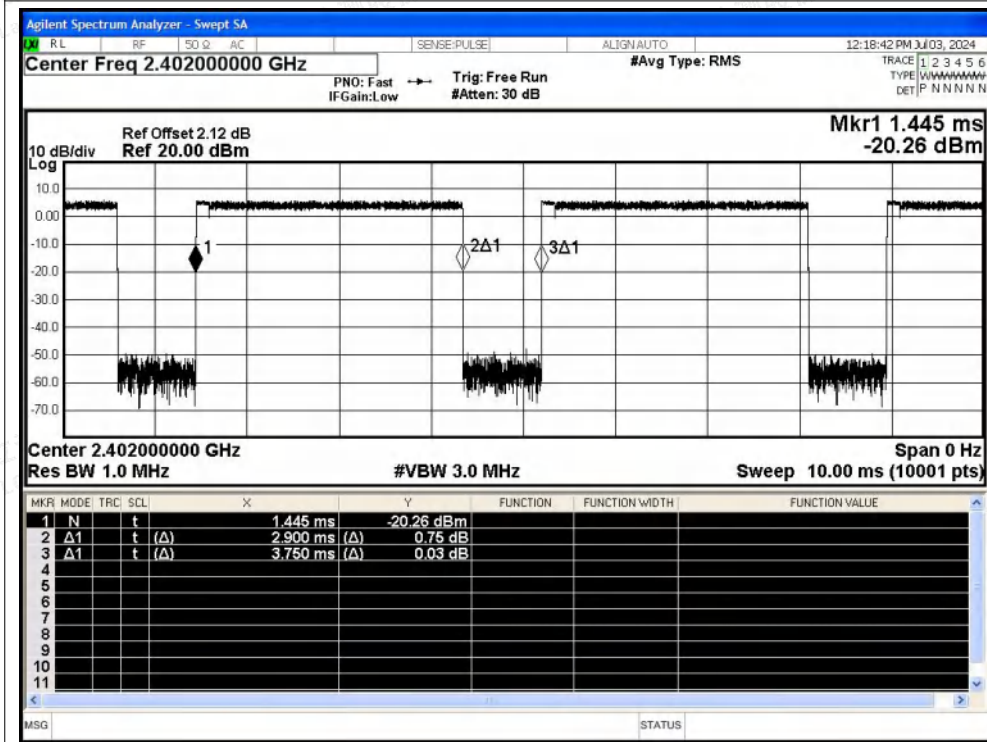




Duty Cycle NVNT 1-DH5 2480MHz Ant1

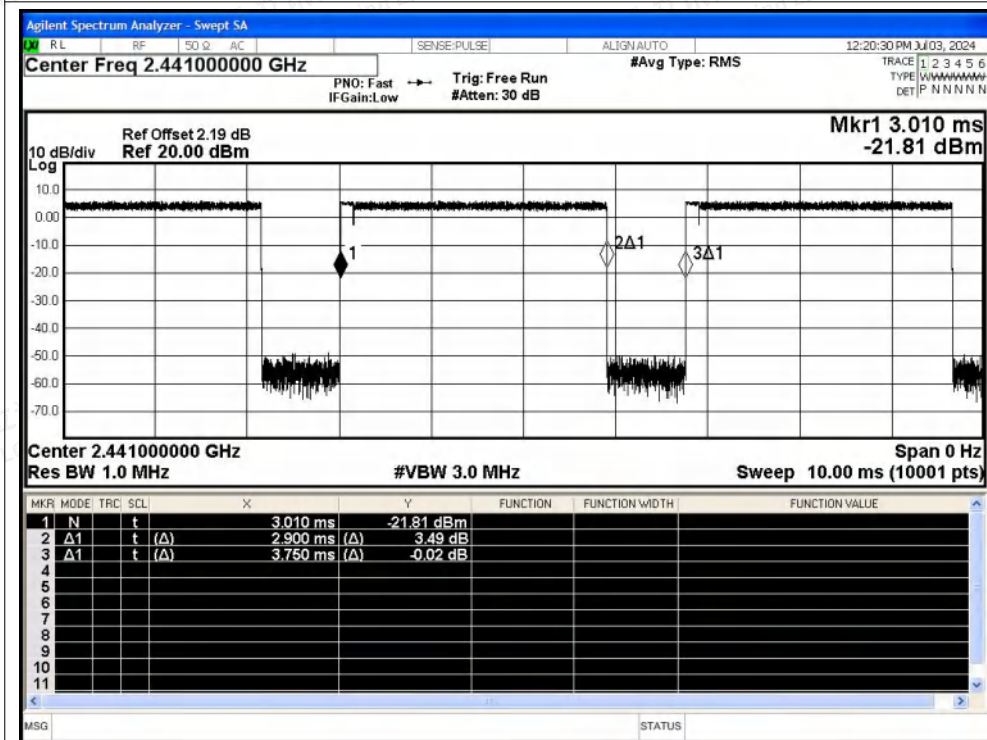


Duty Cycle NVNT 2-DH5 2402MHz Ant1

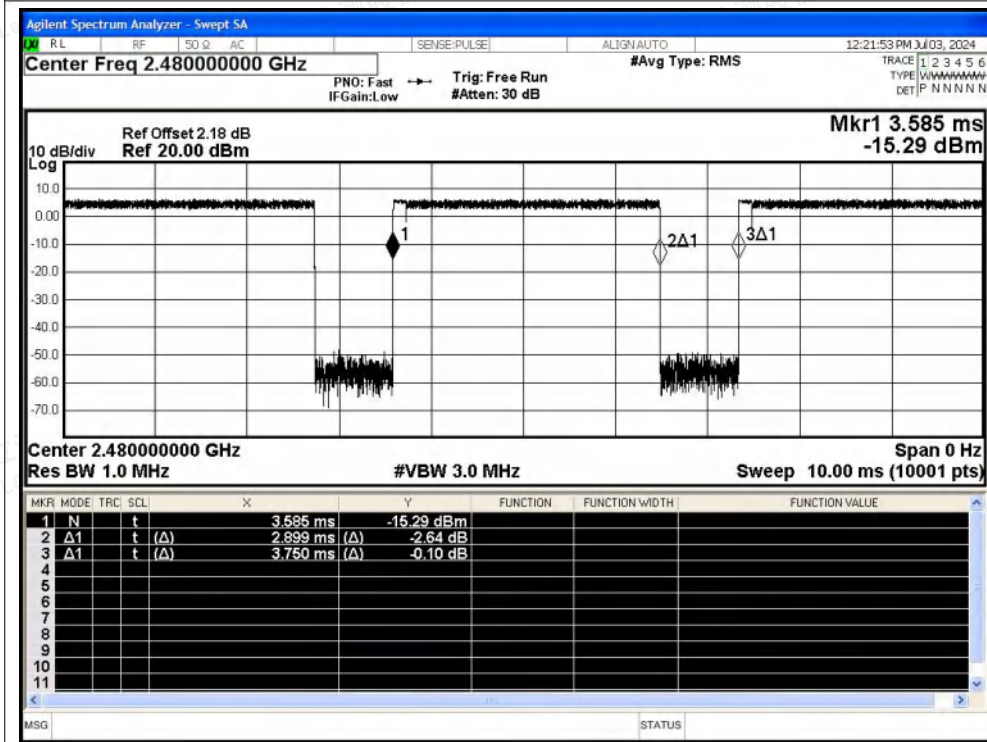




Duty Cycle NVNT 2-DH5 2441MHz Ant1

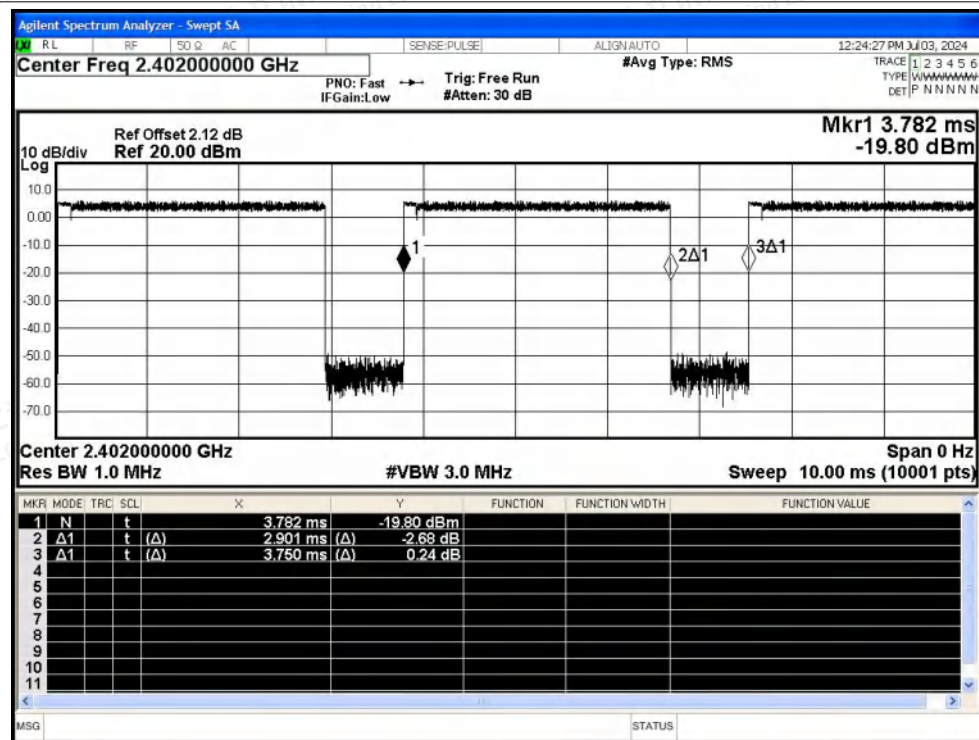


Duty Cycle NVNT 2-DH5 2480MHz Ant1

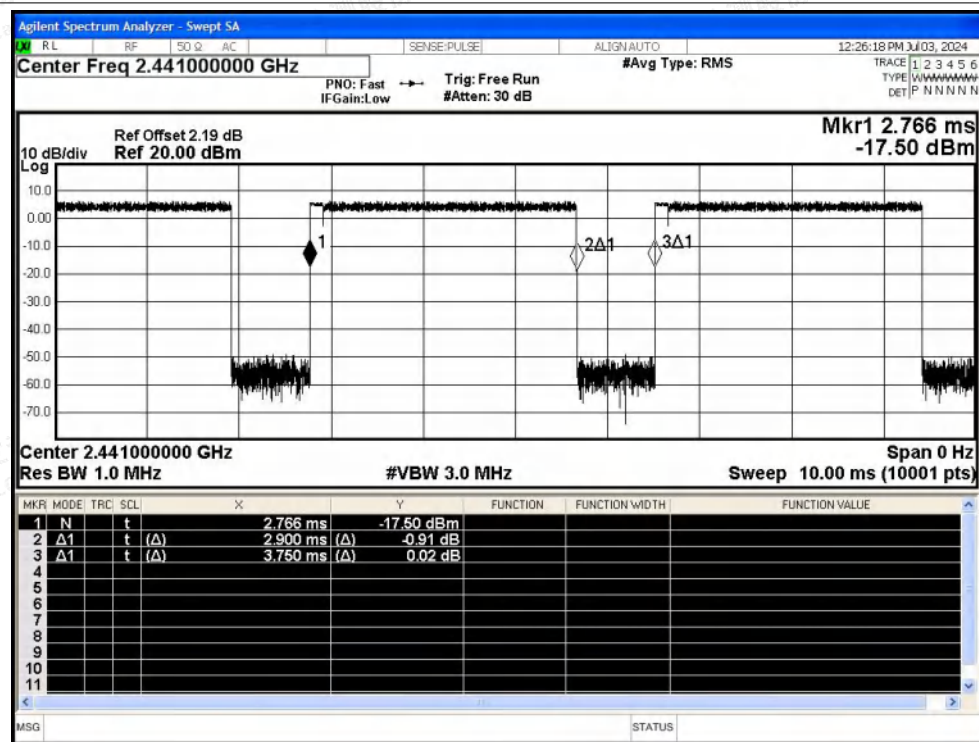


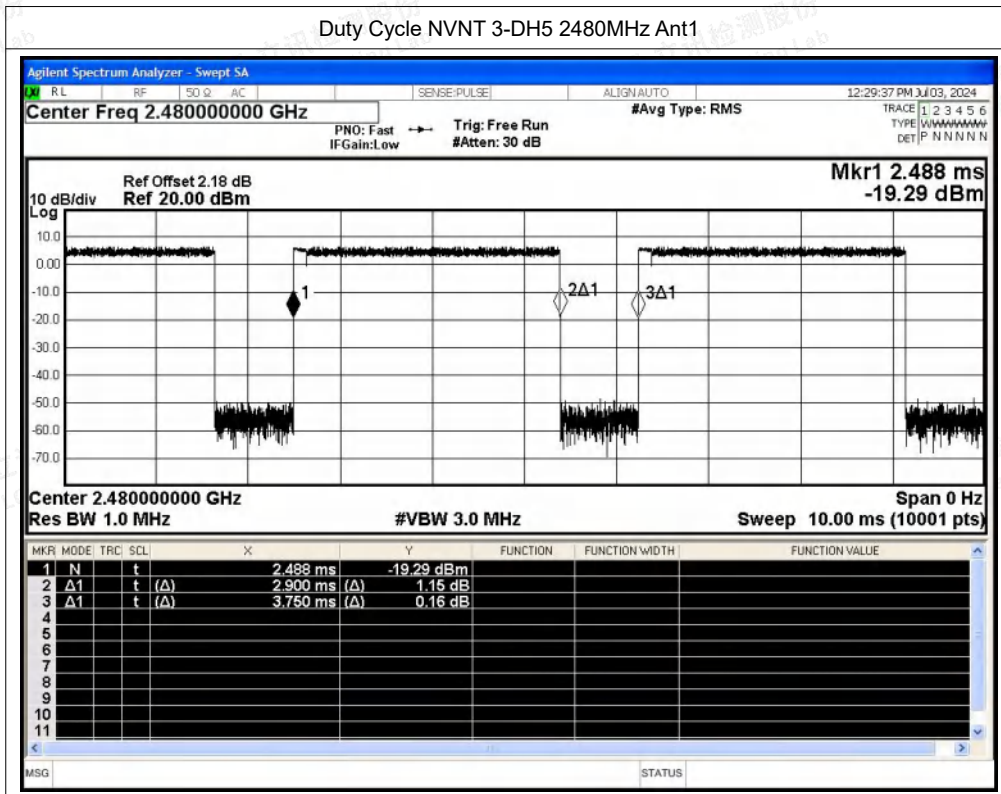


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1







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	-50.64	2.00	-	46.62	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.45	2.00	1.13	39.94	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2365.872	-44.36	2.00	-	52.90	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2369.808	-54.46	2.00	1.13	43.93	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-46.63	2.00	-	50.63	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.2	2.00	1.13	41.19	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-45.75	2.00	-	51.51	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-54.24	2.00	1.13	44.15	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.016	-42.11	2.00	-	55.15	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.56	-54.06	2.00	1.13	44.33	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-47.44	2.00	-	49.82	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-55.64	2.00	1.13	42.75	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.58	2.00	-	47.68	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.48	2.00	1.12	39.90	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2366.064	-44.9	2.00	-	52.36	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2366.736	-54.16	2.00	1.12	44.22	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-48.31	2.00	-	48.95	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.19	2.00	1.12	41.19	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-47.31	2.00	-	49.95	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-54.57	2.00	1.12	43.81	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.56	-31.88	2.00	-	65.38	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.656	-52.1	2.00	1.12	46.28	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-46.77	2.00	-	50.49	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-55.7	2.00	1.12	42.68	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.58	2.00	-	47.68	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.44	2.00	1.11	39.93	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2359.152	-44.36	2.00	-	52.90	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2373.936	-54.31	2.00	1.11	44.06	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-47.99	2.00	-	49.27	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.15	2.00	1.11	41.22	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-35.8	2.00	-	61.46	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.3	2.00	1.12	43.08	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-35.8	2.00	-	61.46	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.632	-54.66	2.00	1.12	43.72	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-47.05	2.00	-	50.21	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-55.72	2.00	1.12	42.66	Average	54	Pass



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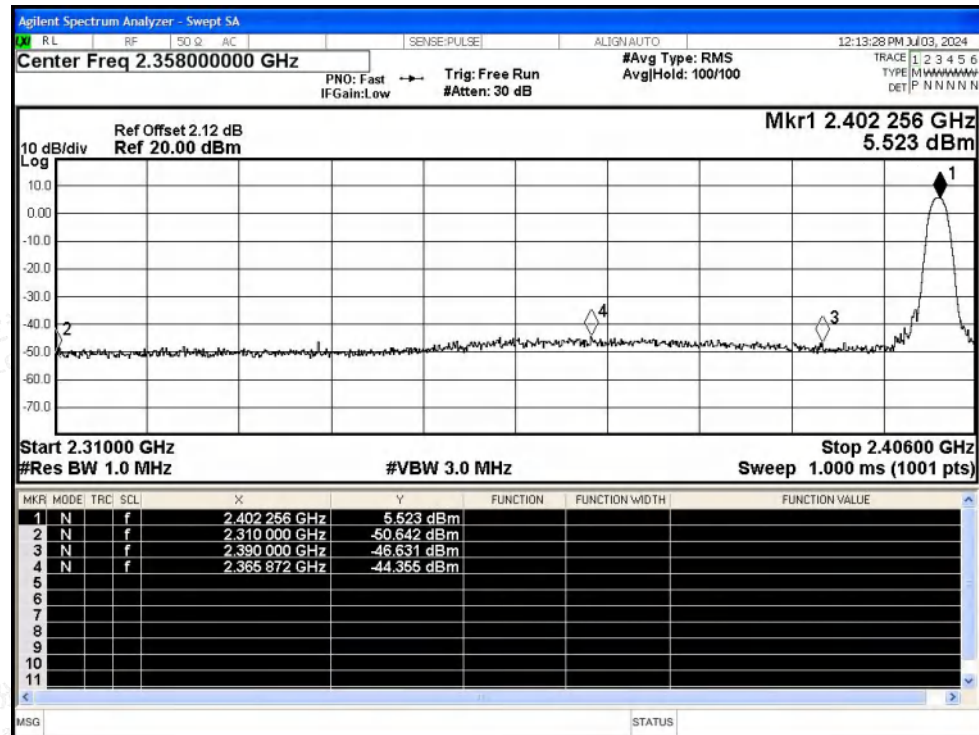
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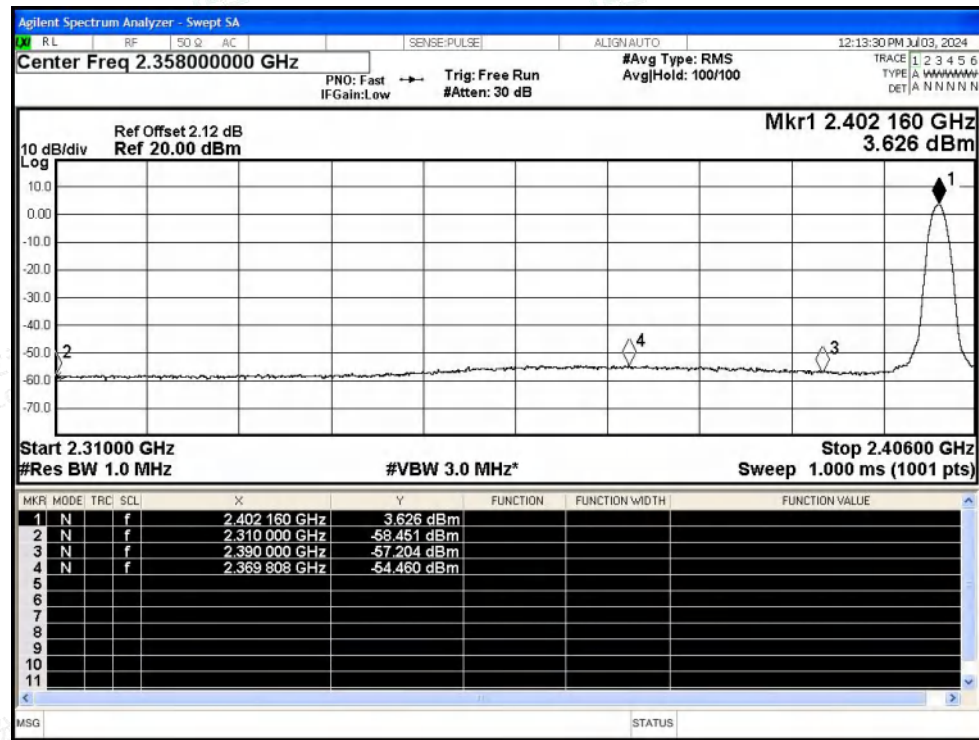


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

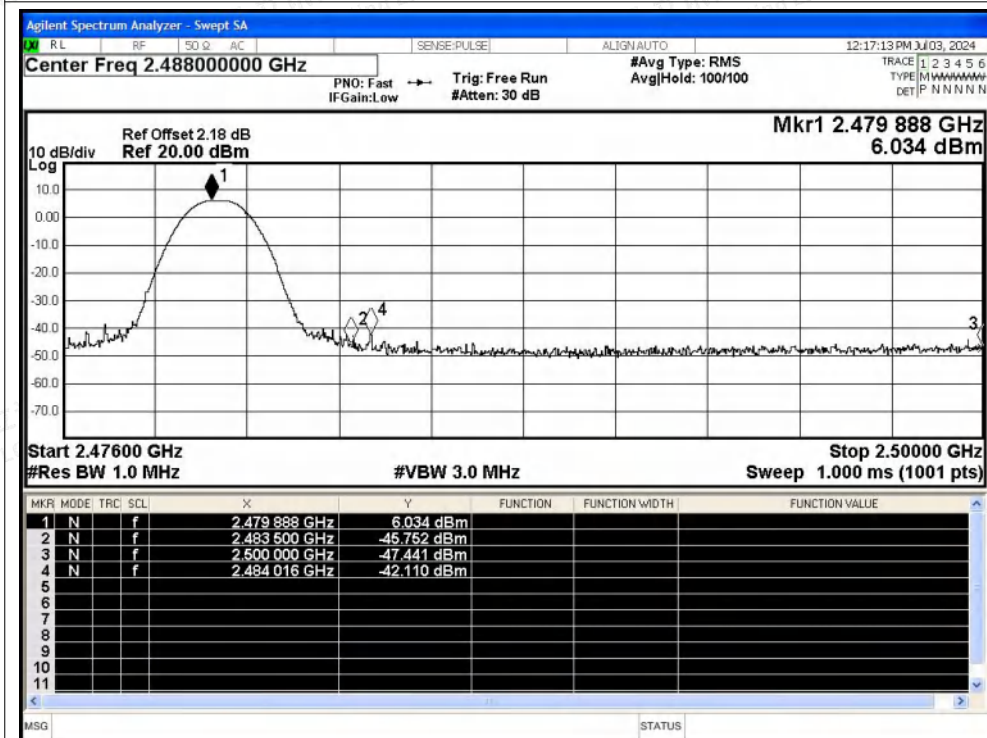
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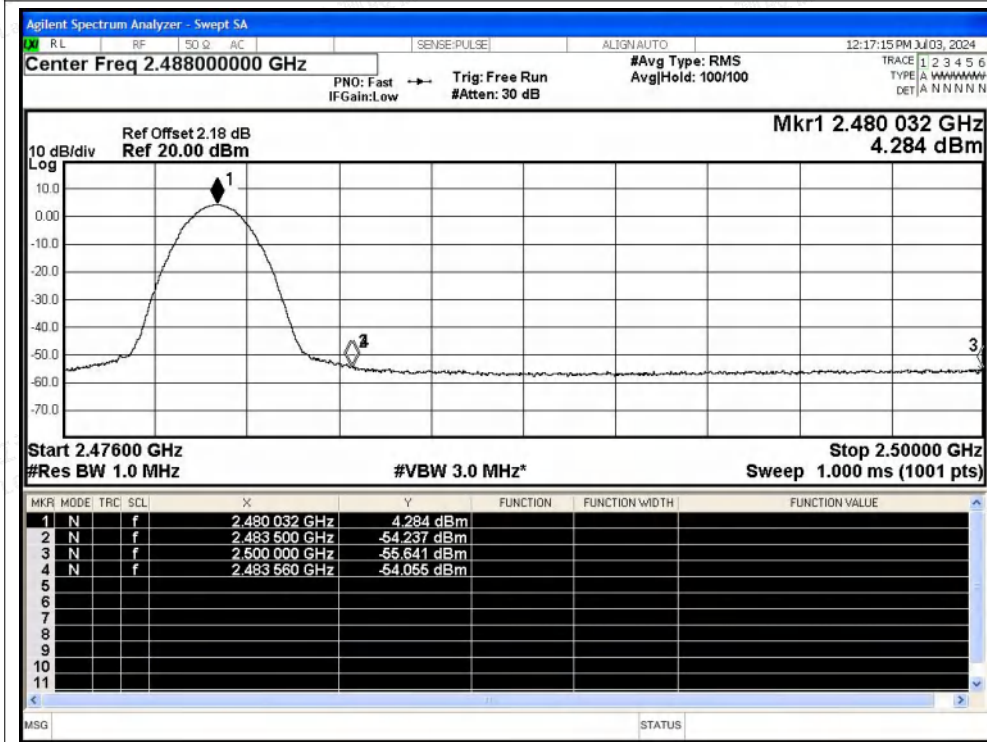
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

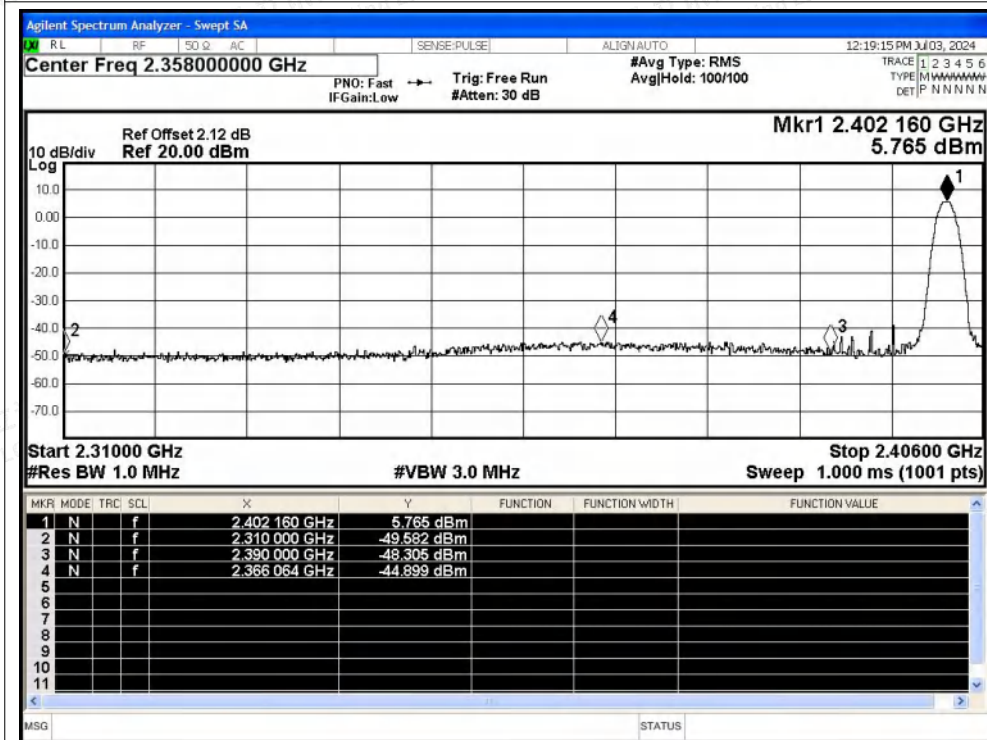


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

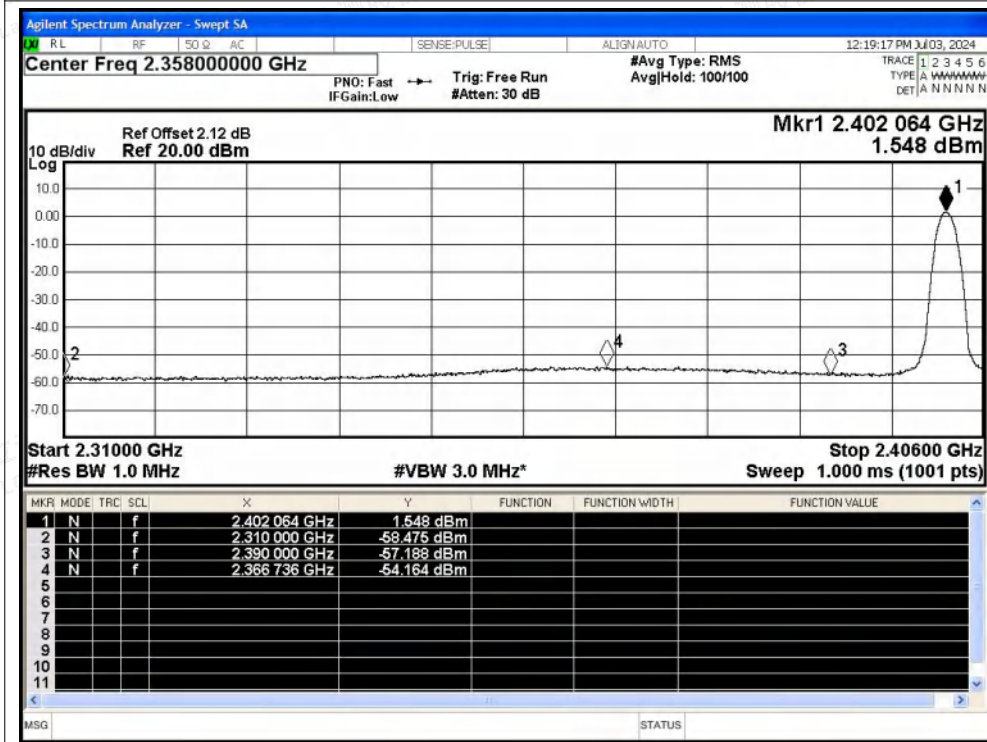




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

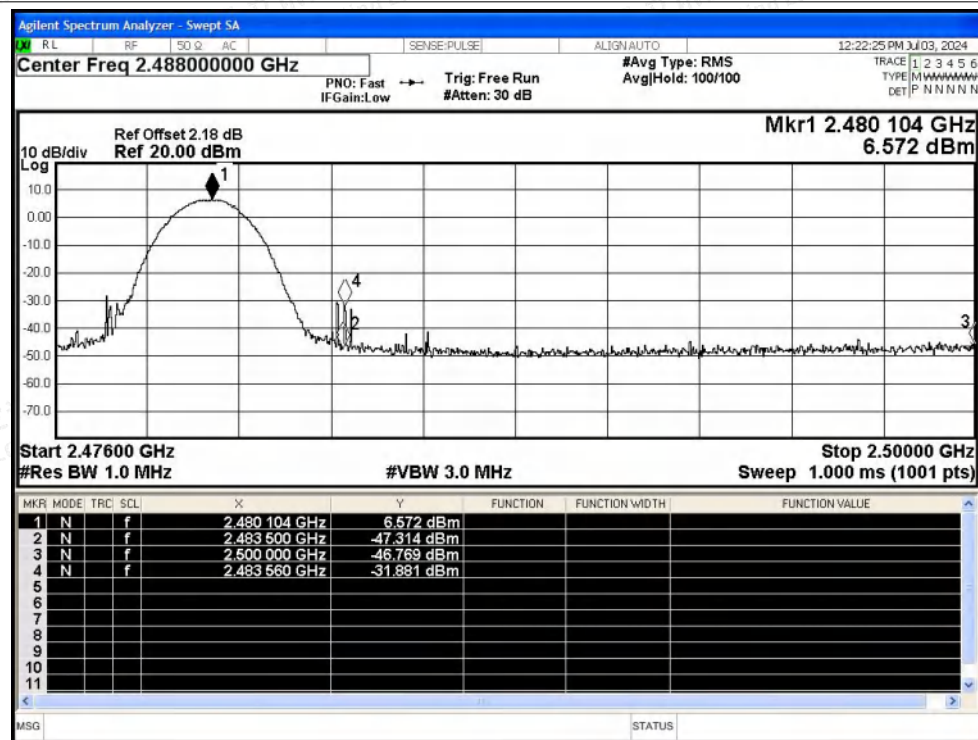


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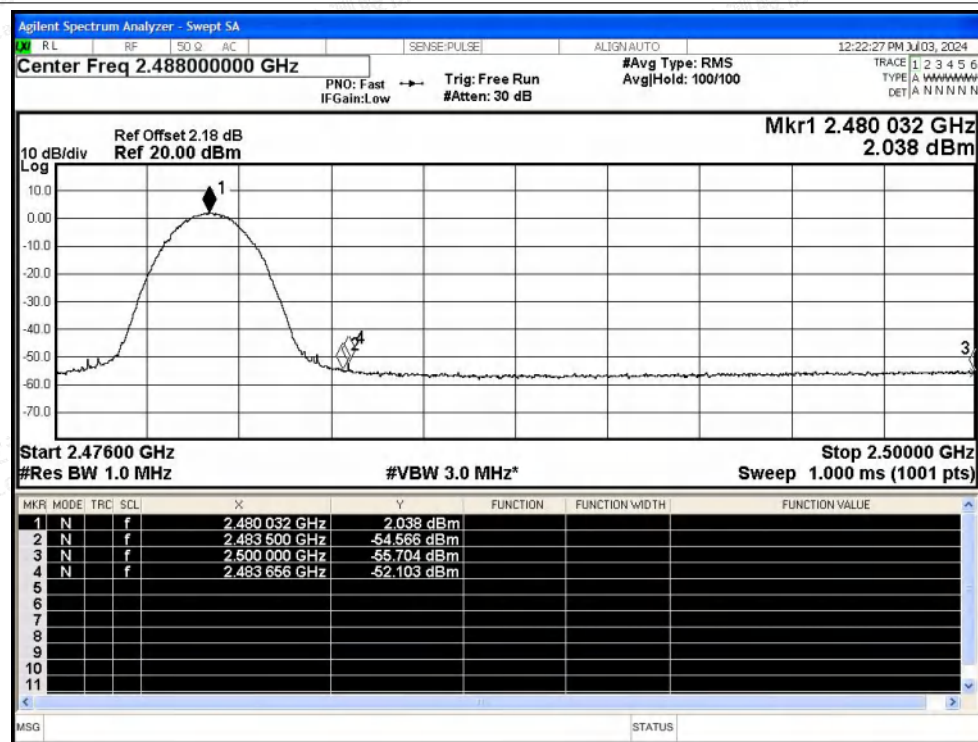




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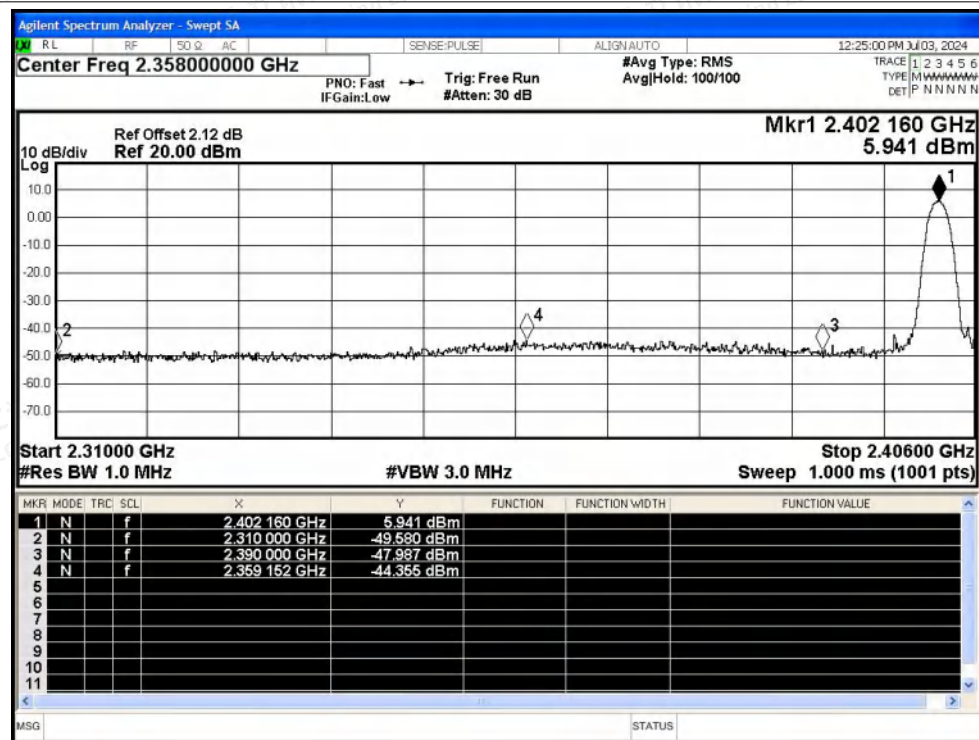


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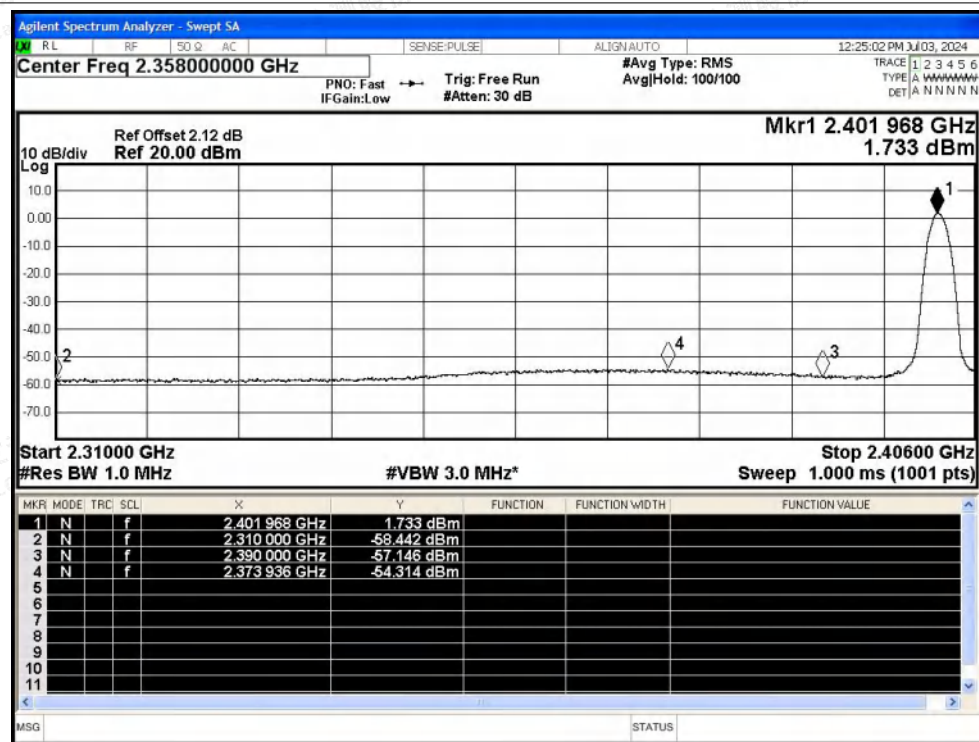




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average



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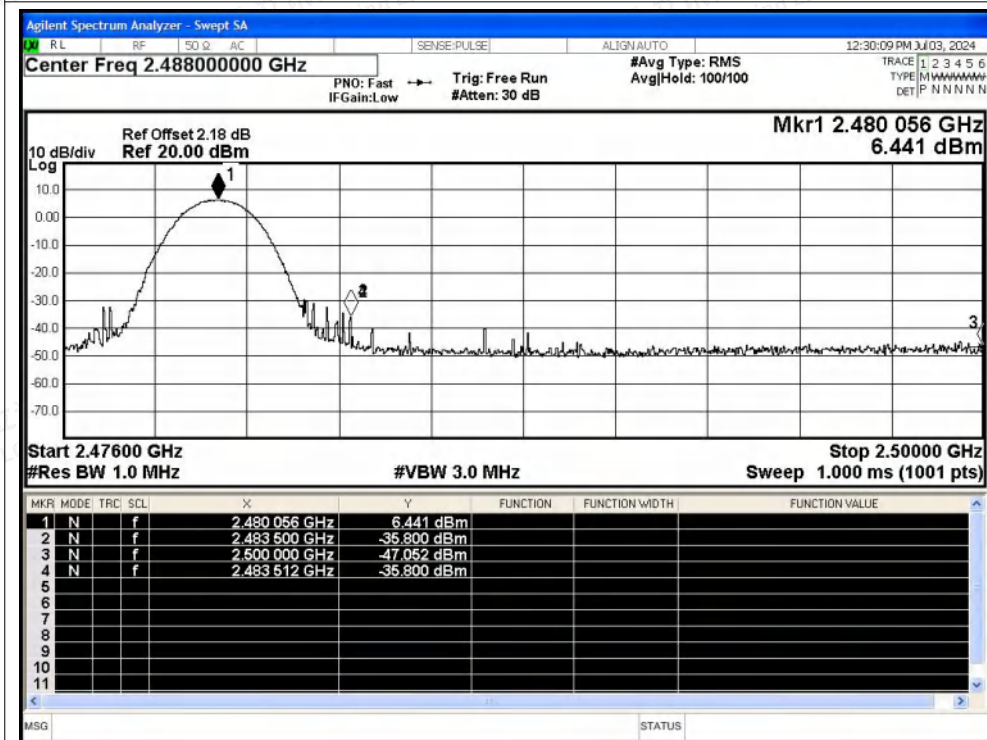
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Scan code to check authenticity



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



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

