



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: MOBILE PHONE

Test Model: NOVA

Environmental Conditions

Temperature:	24.9°C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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A.1 -20dB Bandwidth

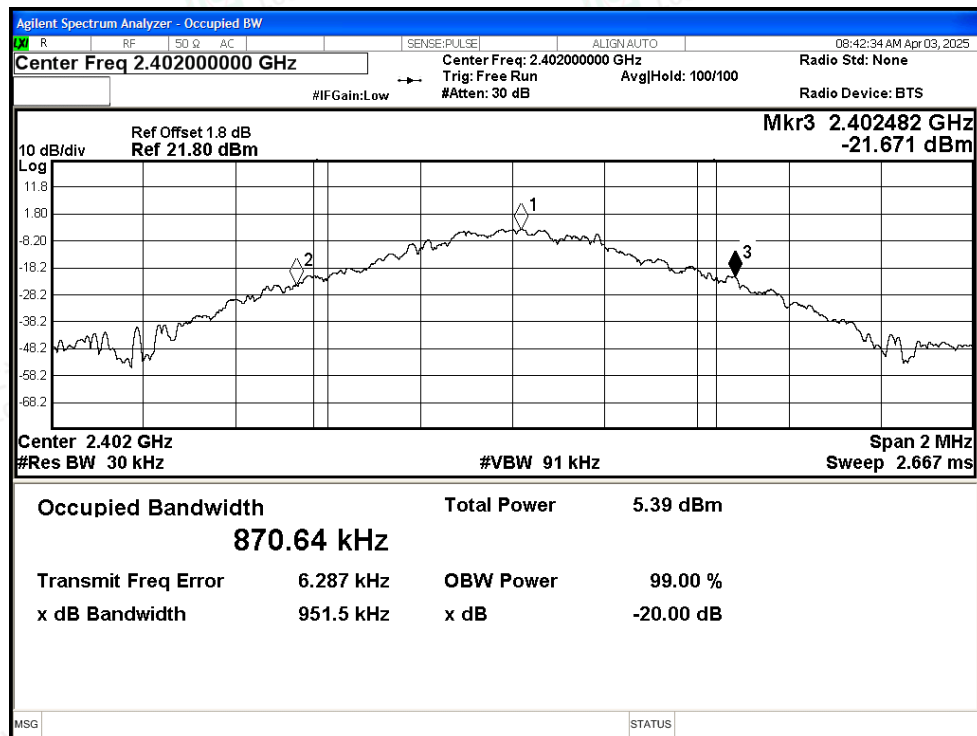
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.951	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.961	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.008	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.282	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.288	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.28	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.295	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.294	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.296	N/A	Pass



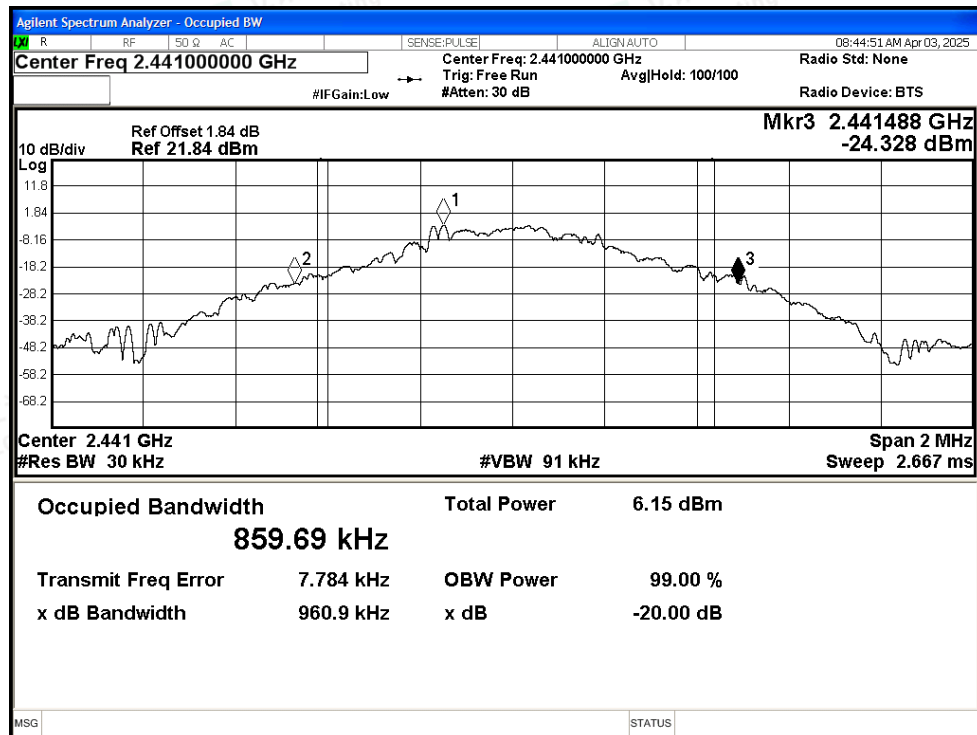


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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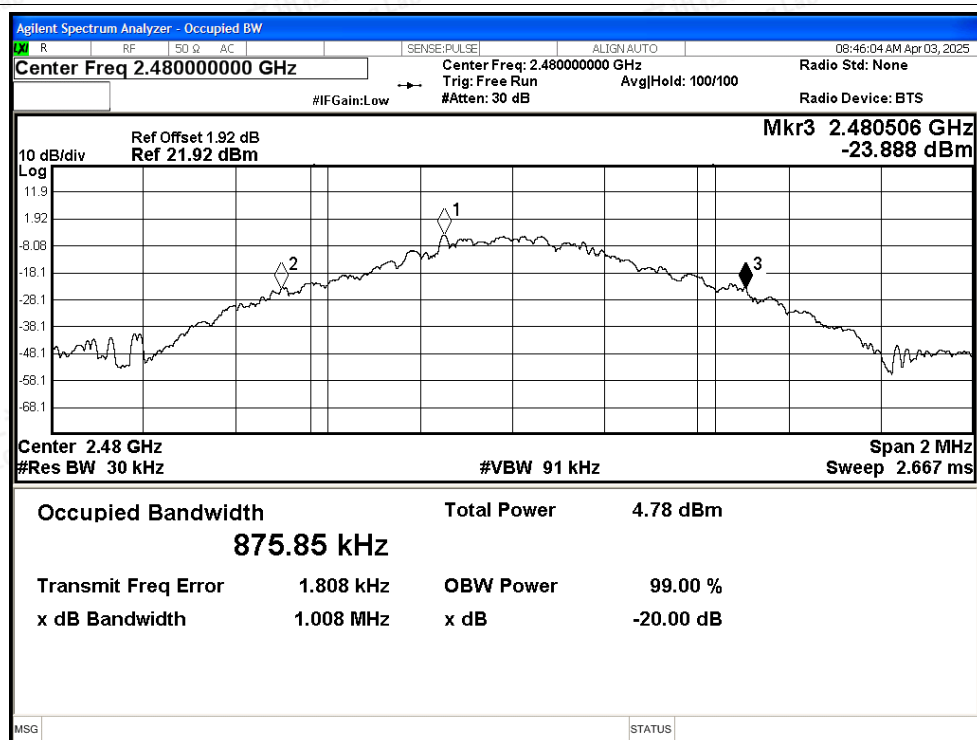
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

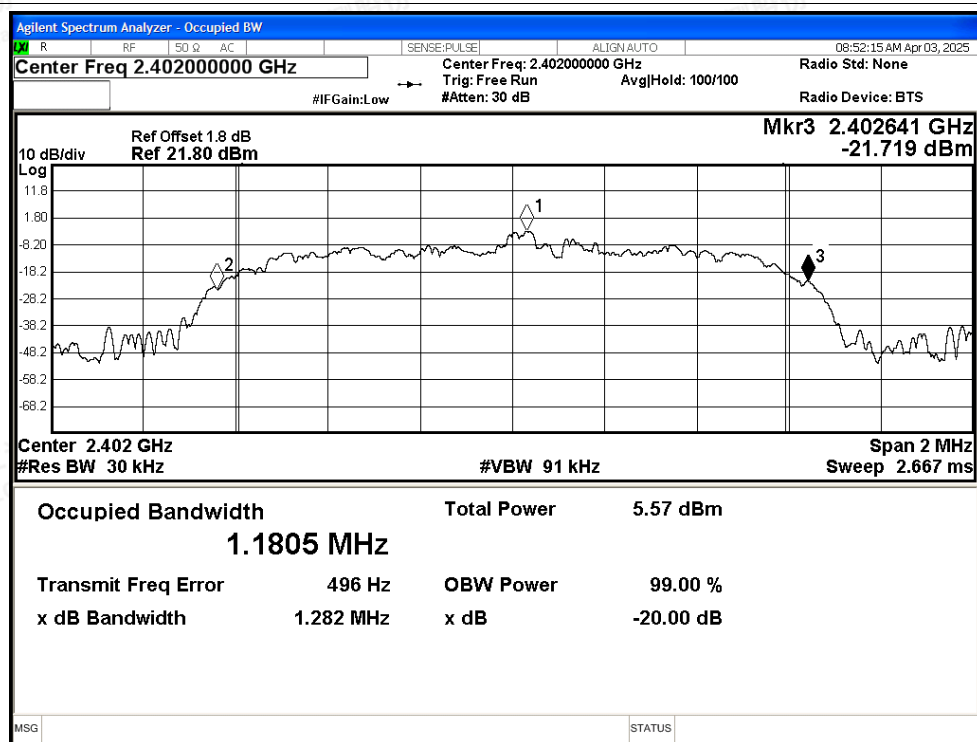
Scan code to check authenticity



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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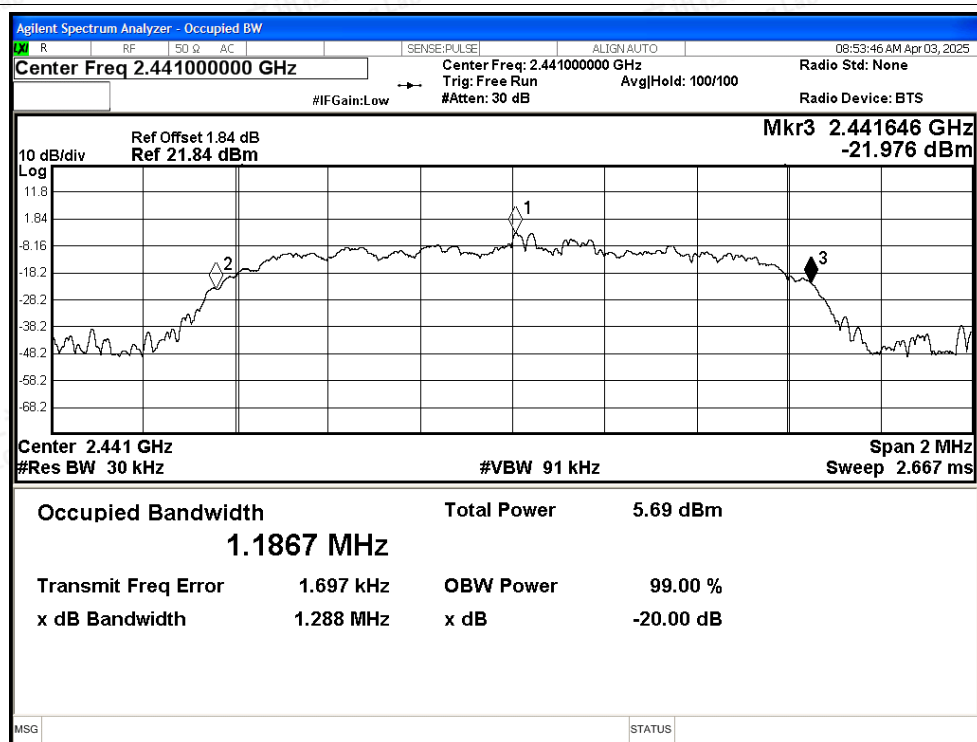
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

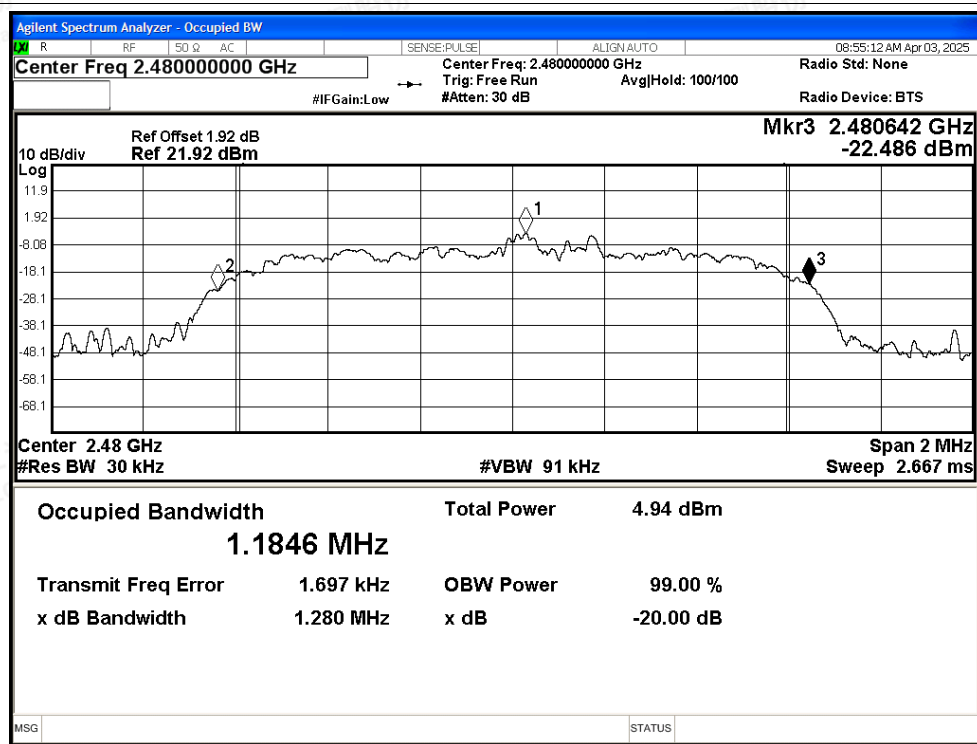
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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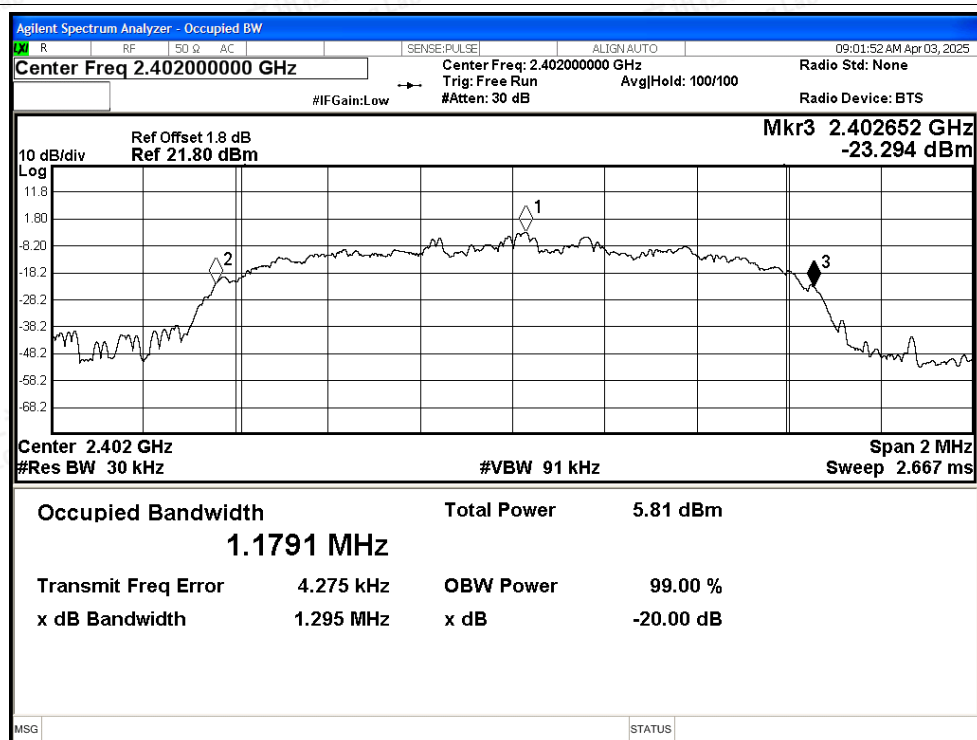
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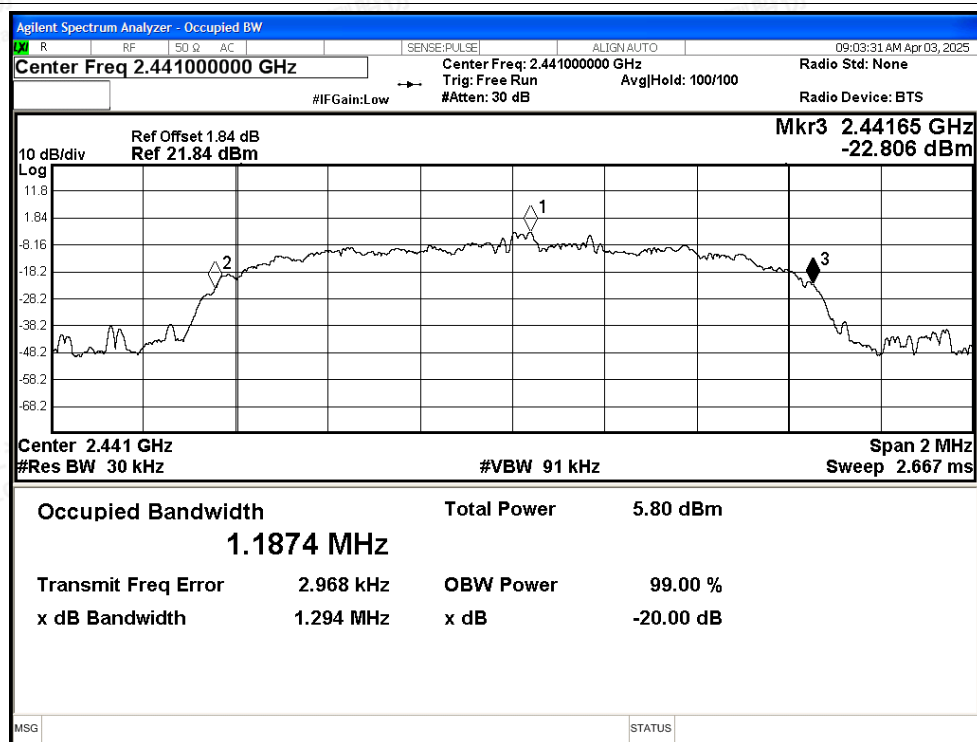
Scan code to check authenticity



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



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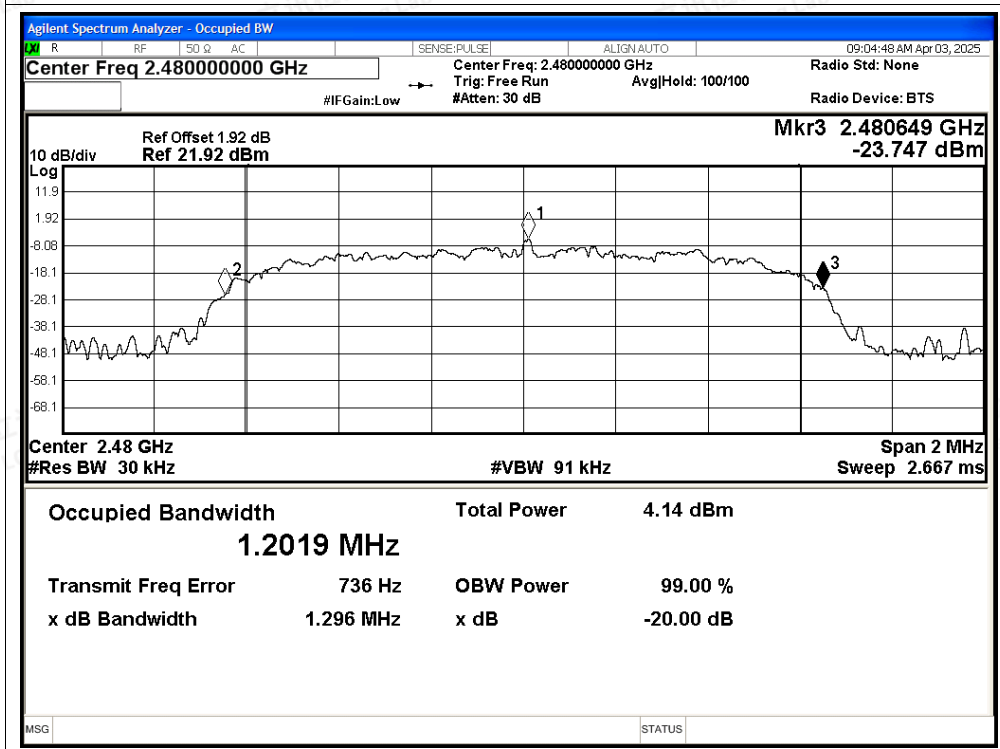
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-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



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A.2 Maximum Peak Conducted Output Power

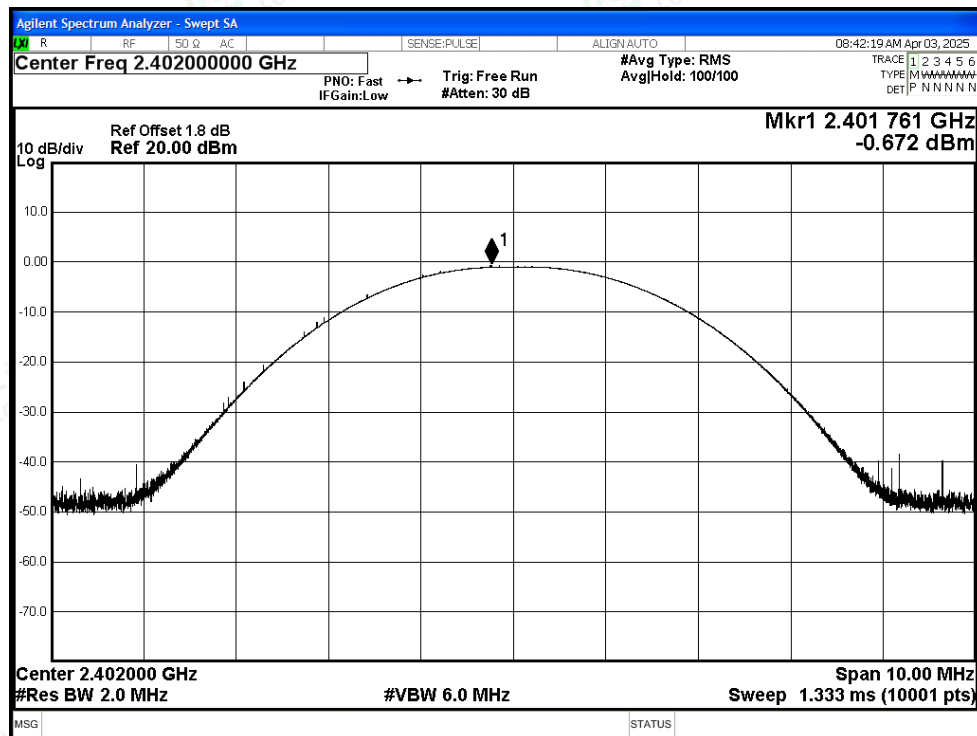
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.67	21	Pass
NVNT	1-DH5	2441	Ant1	-0.42	21	Pass
NVNT	1-DH5	2480	Ant1	-1.33	21	Pass
NVNT	2-DH5	2402	Ant1	1.12	21	Pass
NVNT	2-DH5	2441	Ant1	1.43	21	Pass
NVNT	2-DH5	2480	Ant1	0.39	21	Pass
NVNT	3-DH5	2402	Ant1	1.54	21	Pass
NVNT	3-DH5	2441	Ant1	1.87	21	Pass
NVNT	3-DH5	2480	Ant1	0.76	21	Pass



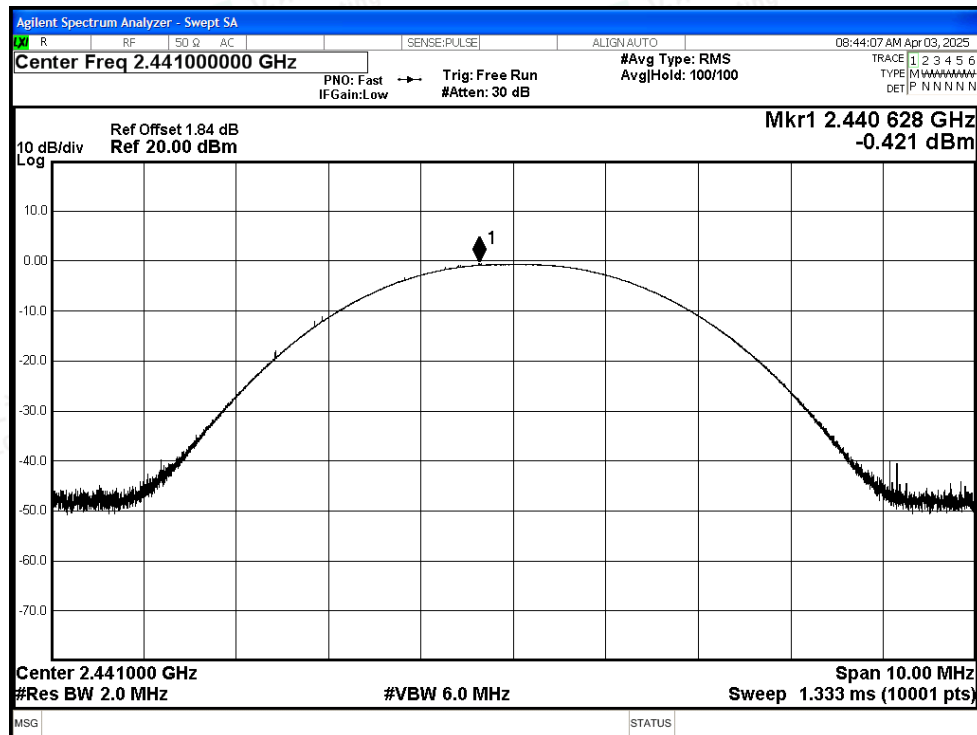


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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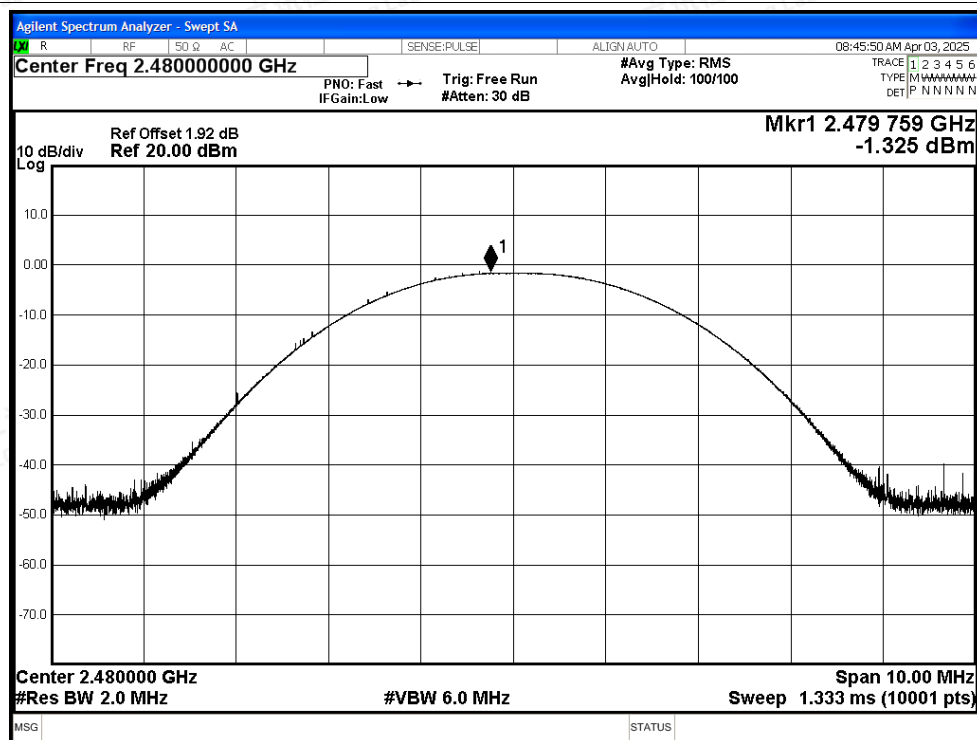
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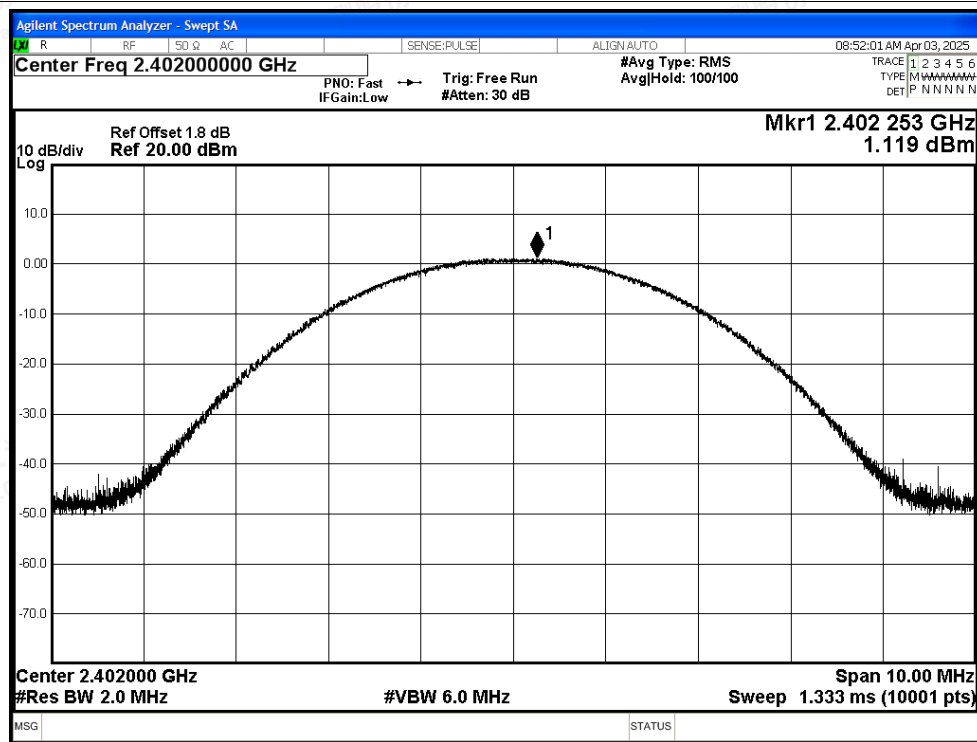
Scan code to check authenticity



Power NVNT 1-DH5 2480MHz Ant1

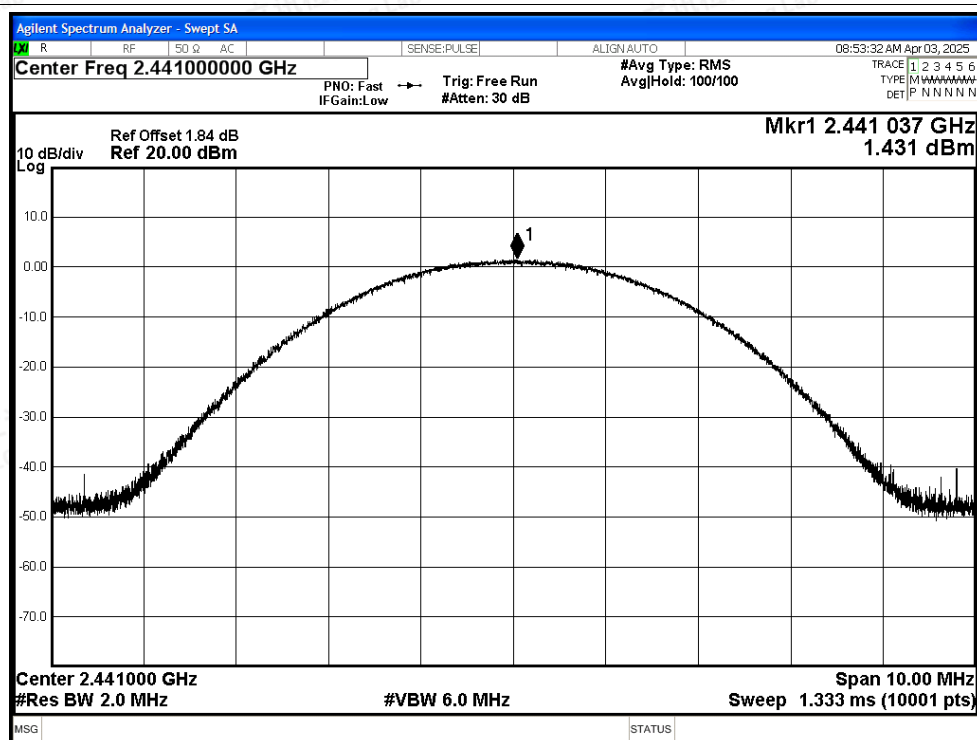


Power NVNT 2-DH5 2402MHz Ant1

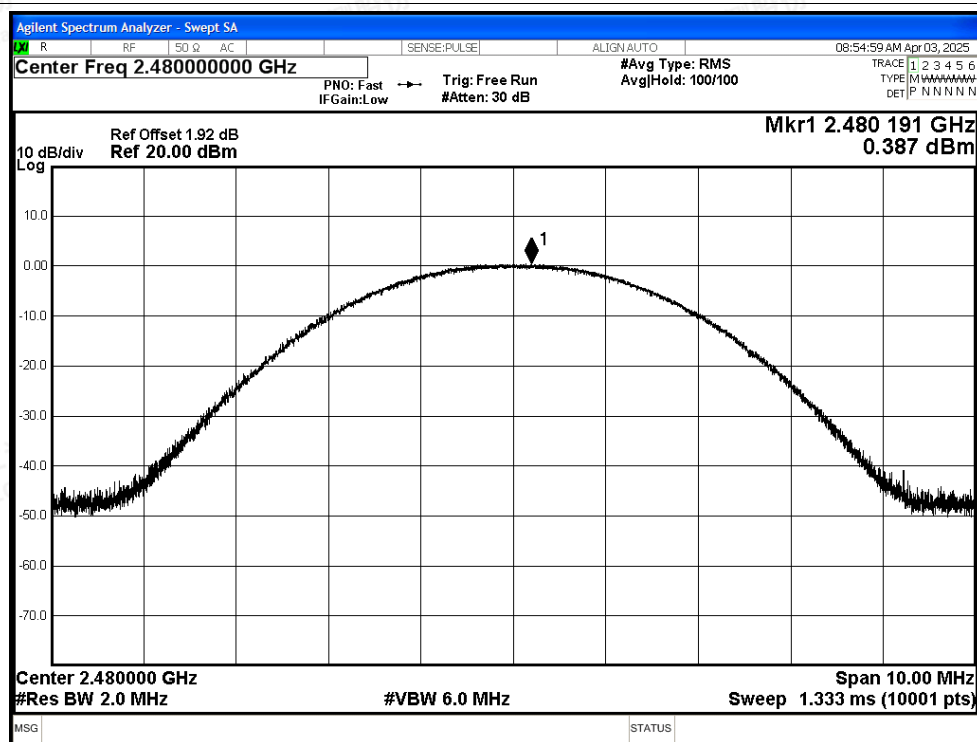




Power NVNT 2-DH5 2441MHz Ant1

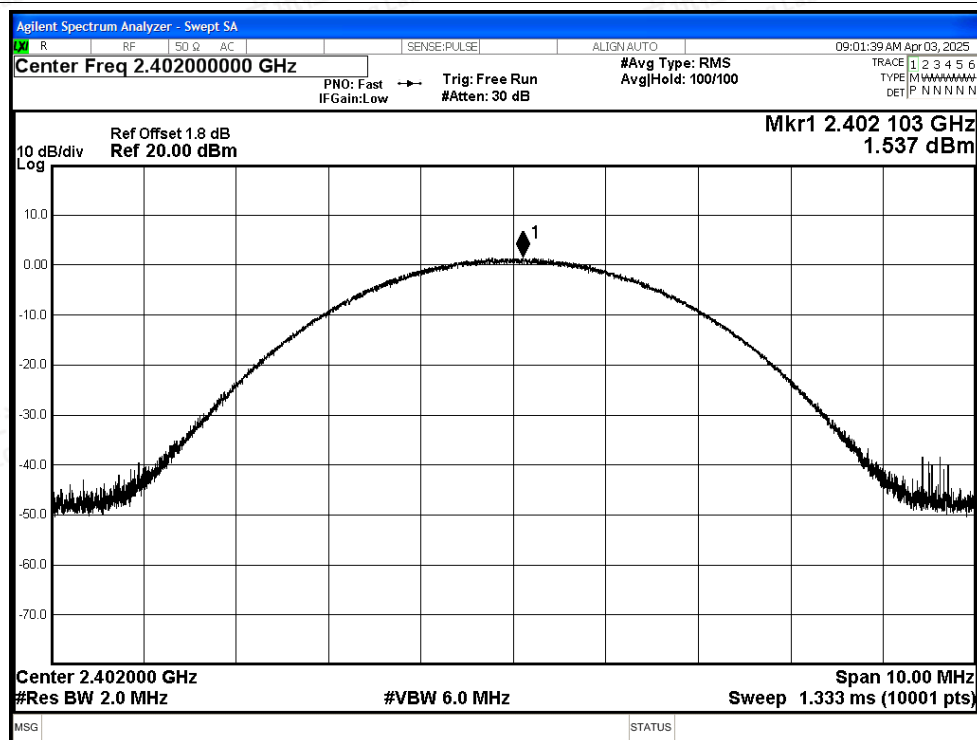


Power NVNT 2-DH5 2480MHz Ant1

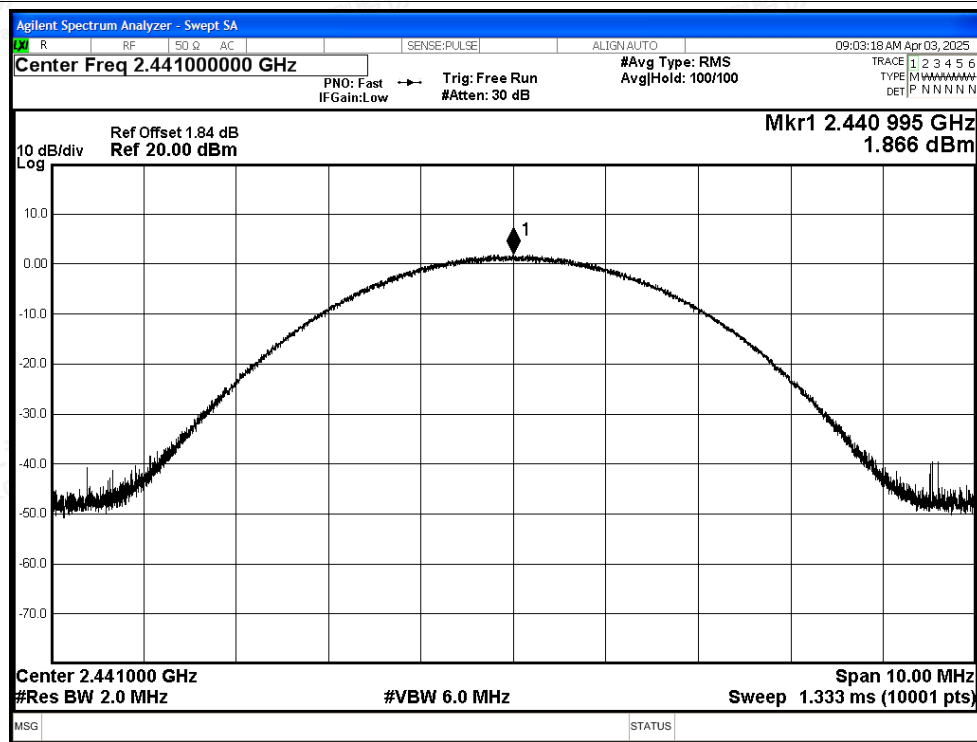




Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

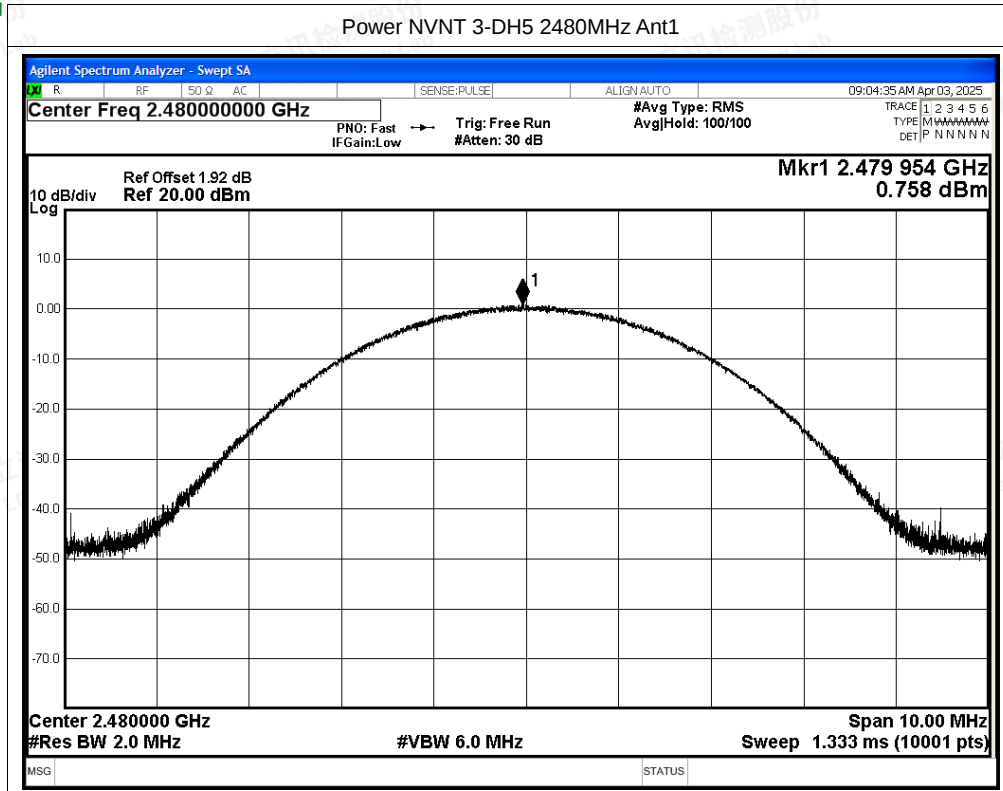


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.994	2402.978	0.984	0.672	Pass
NVNT	2-DH5	Ant1	2402.166	2403.034	0.868	0.859	Pass
NVNT	3-DH5	Ant1	2402.036	2403.024	0.988	0.864	Pass

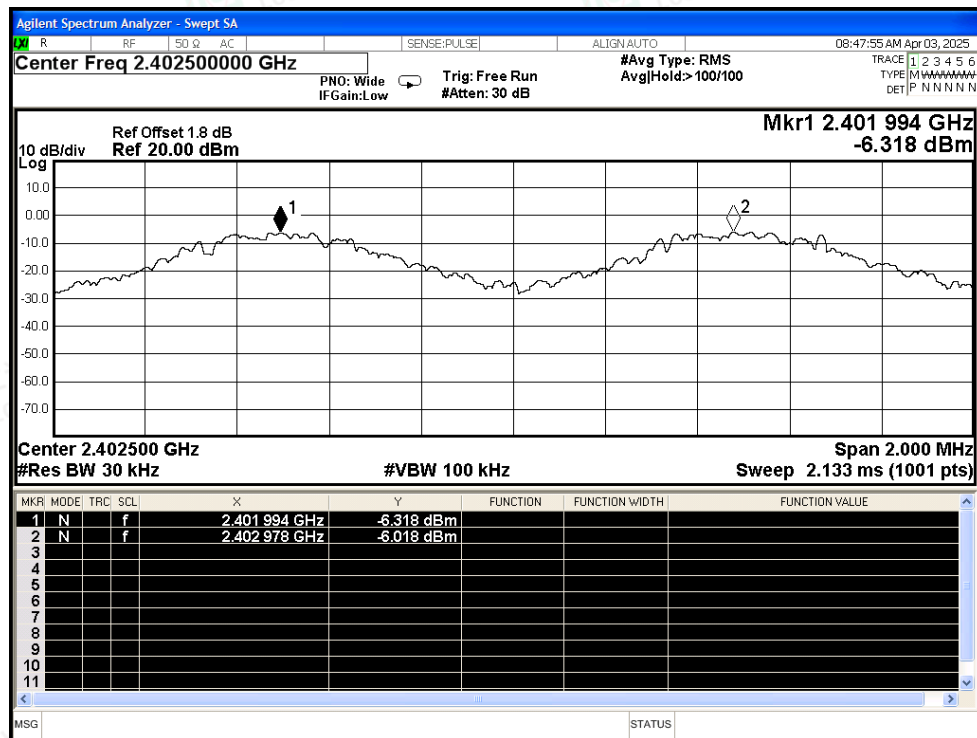


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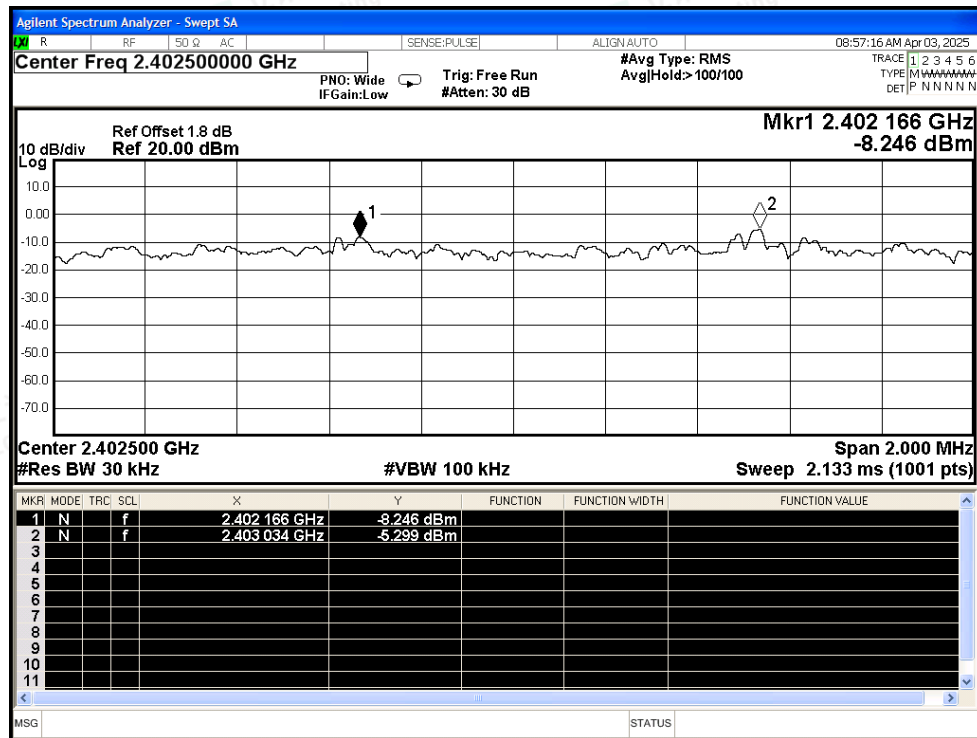


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

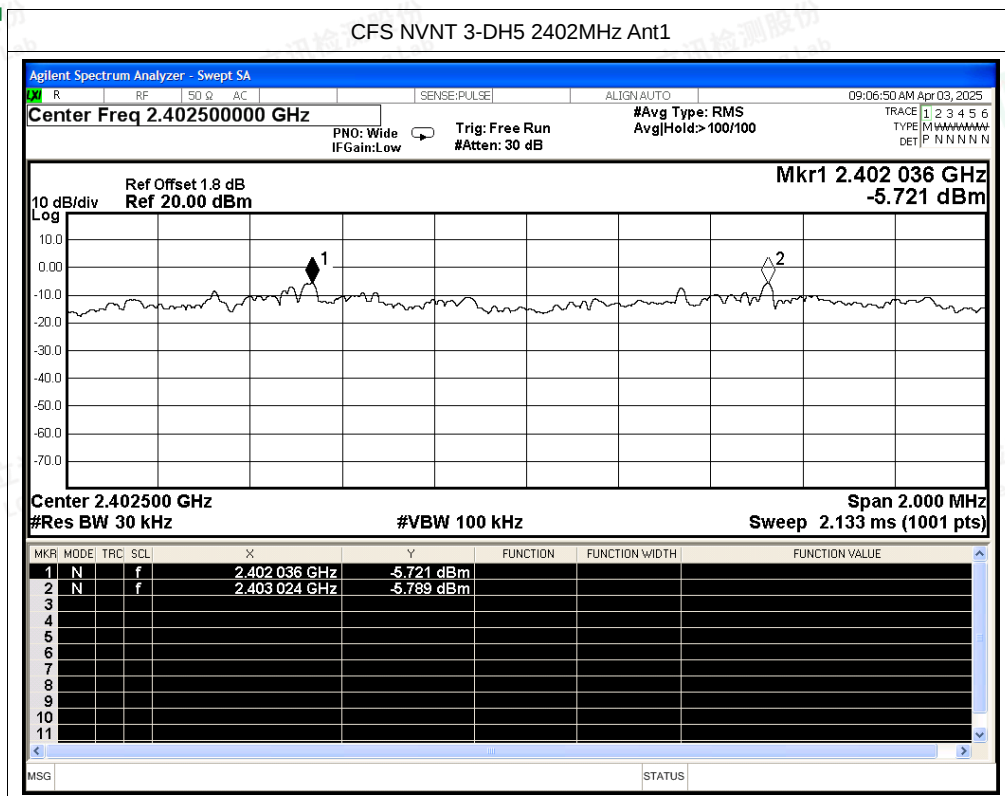


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A.4 Dwell Time

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	296.82	102	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.897	275.215	95	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	307.082	106	31600	400	Pass

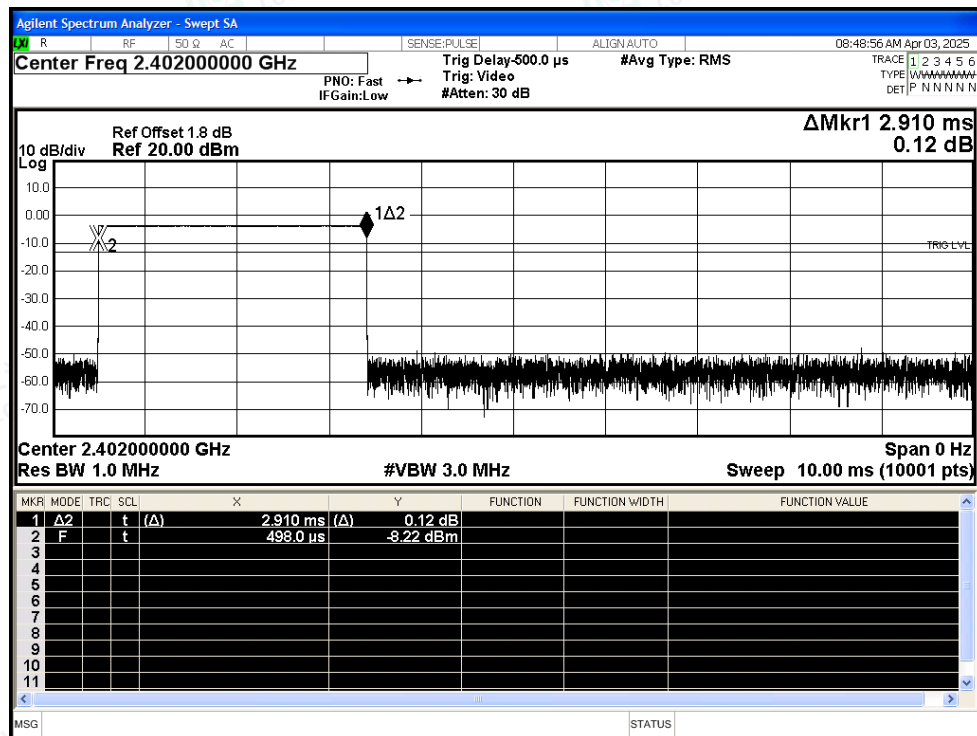


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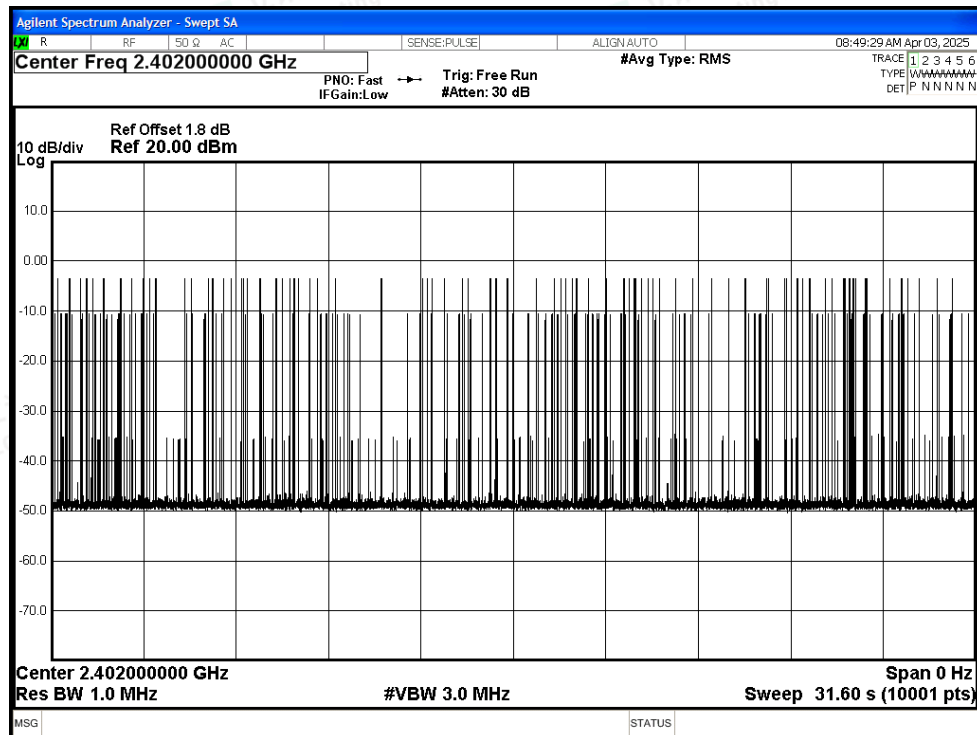


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

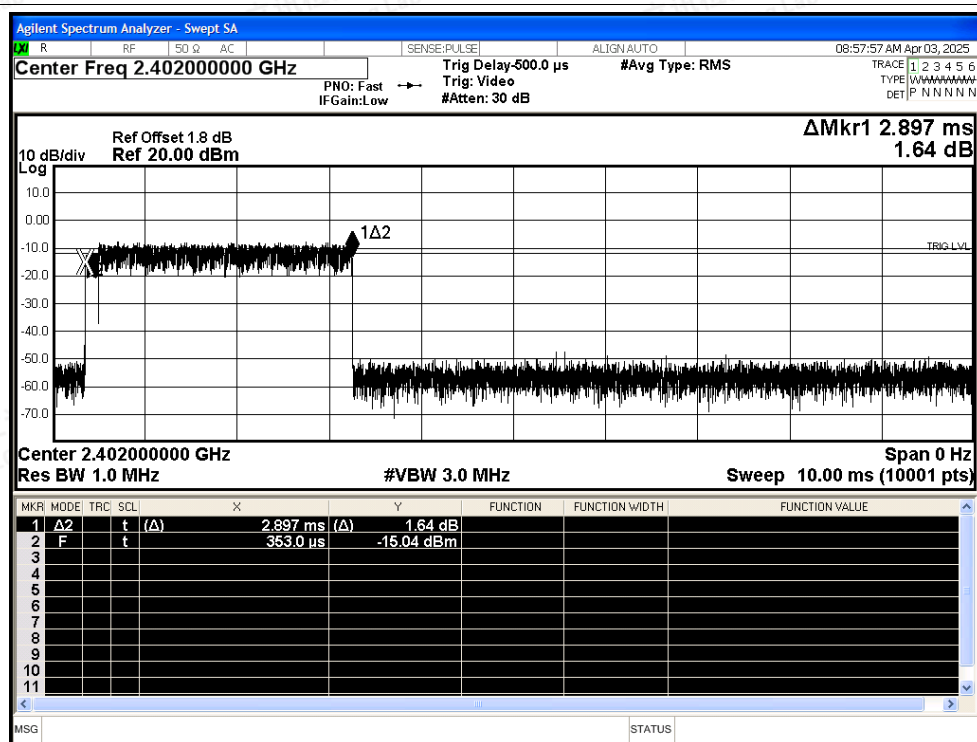


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

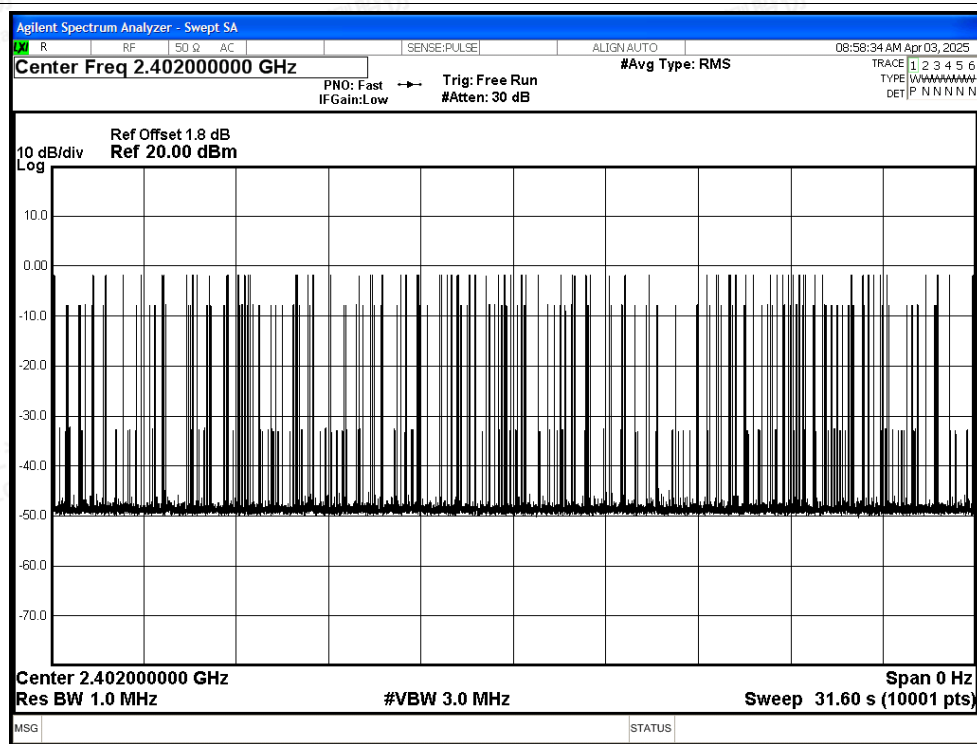




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

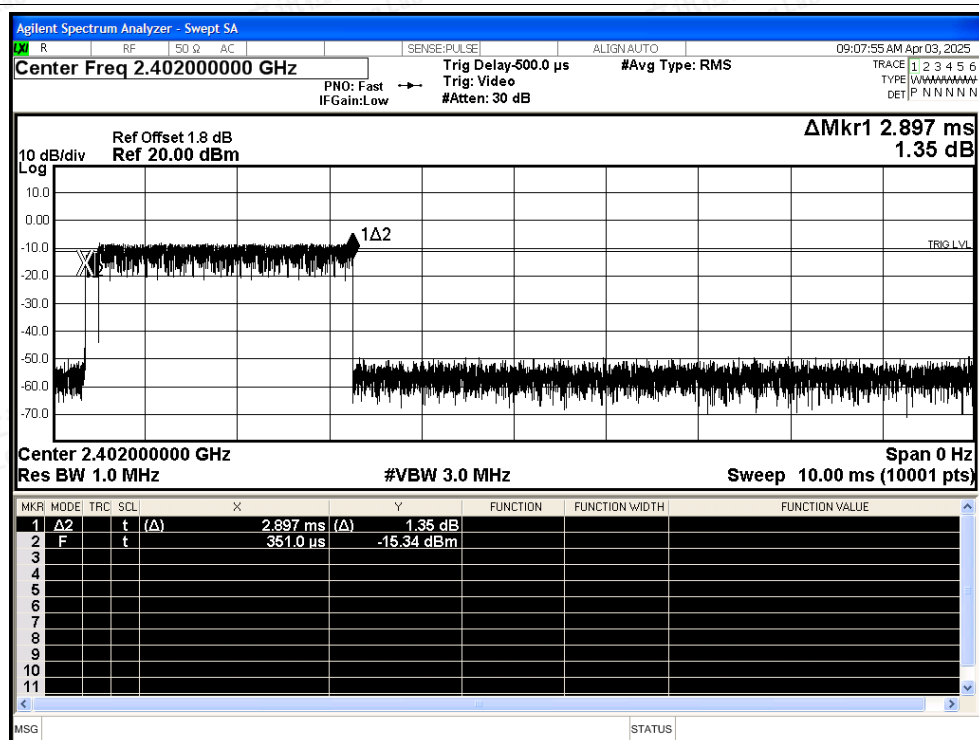


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

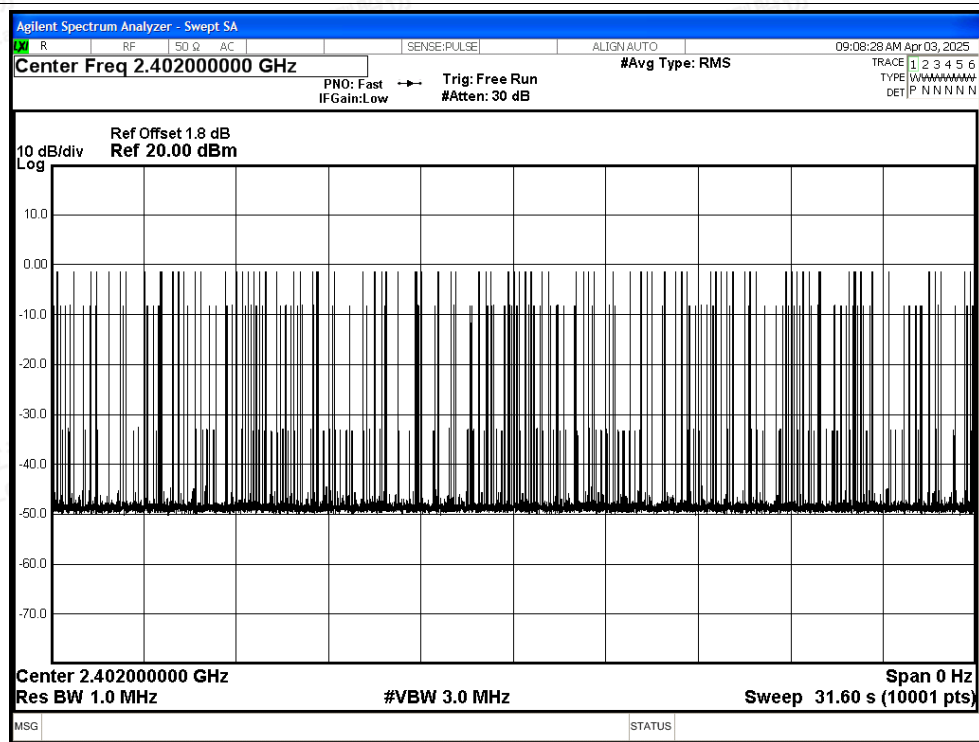




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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A.5 Number of Hopping Channel

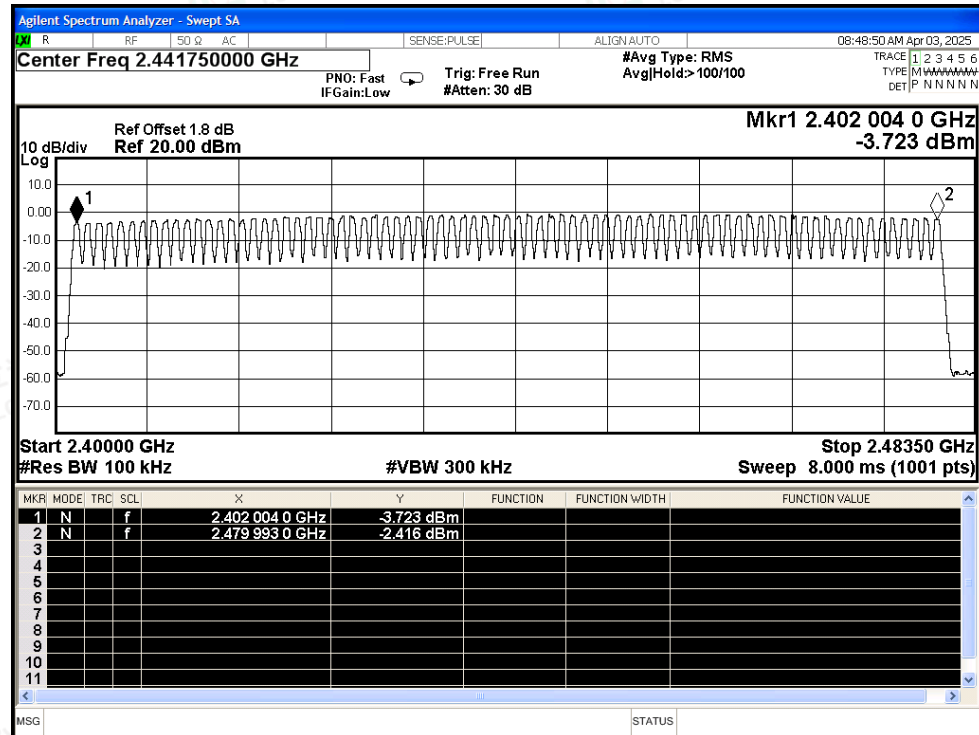
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



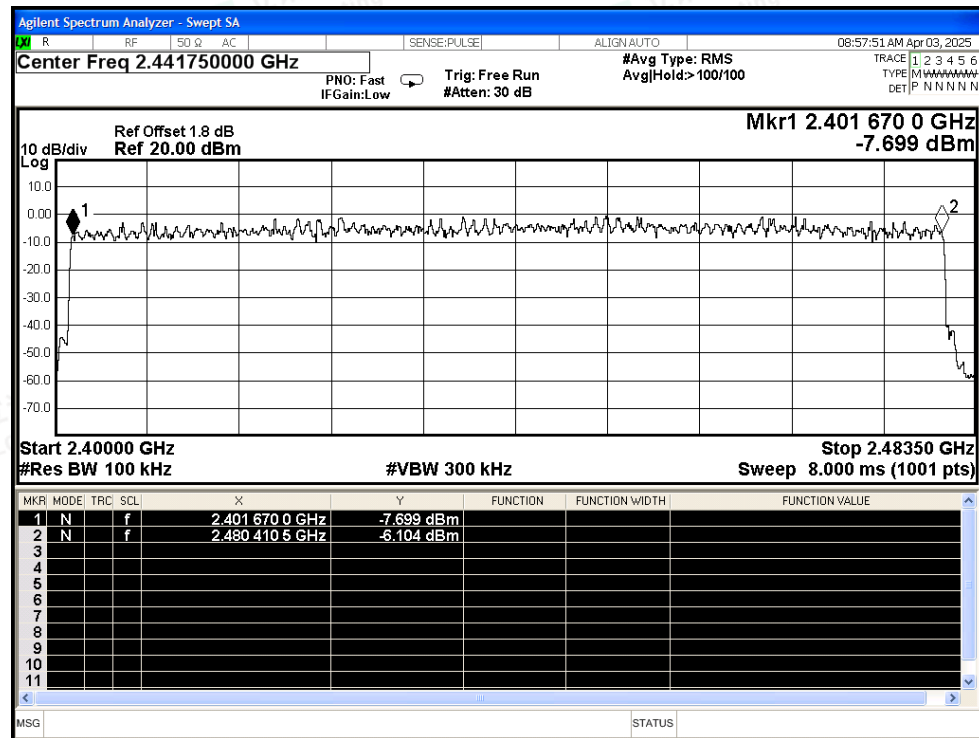


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

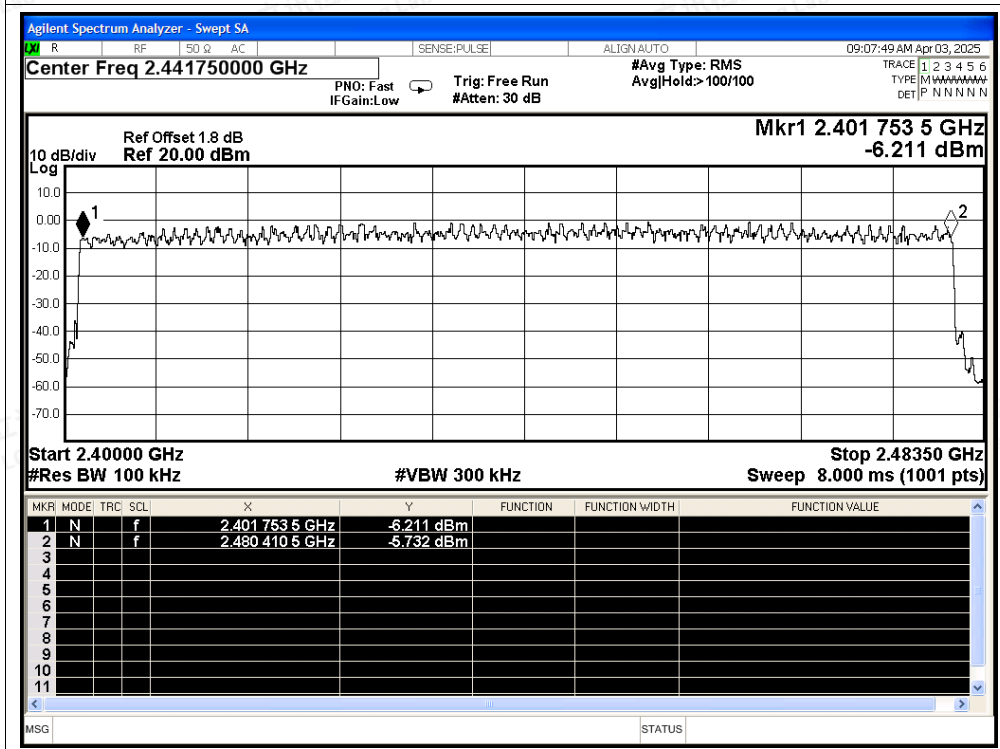
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

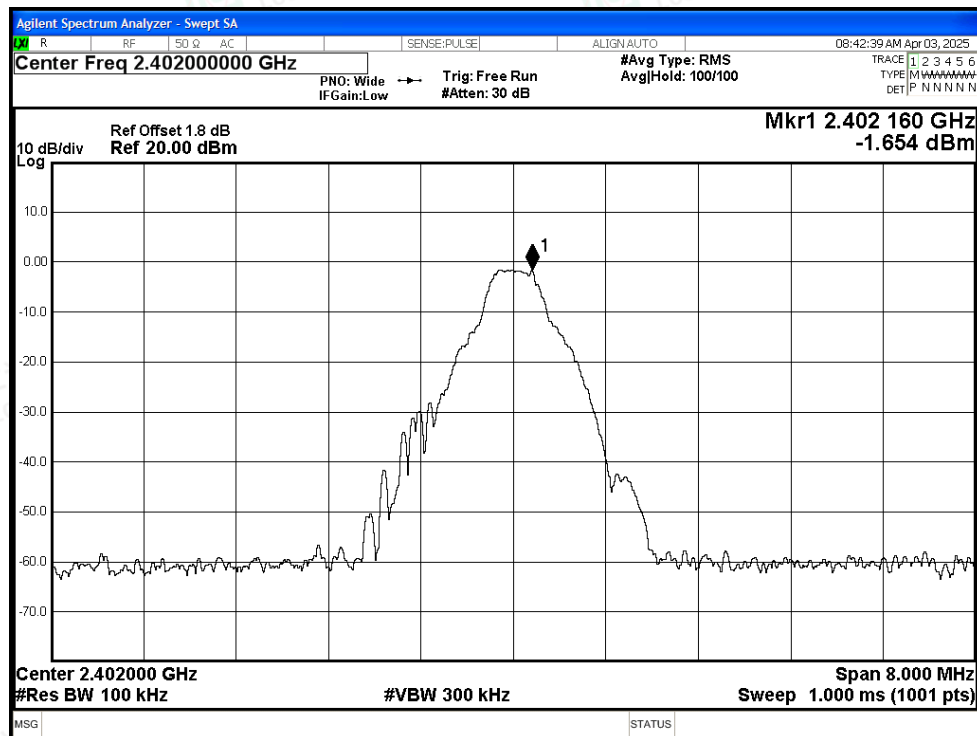
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.93	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.14	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.19	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-50.14	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.34	-20	Pass



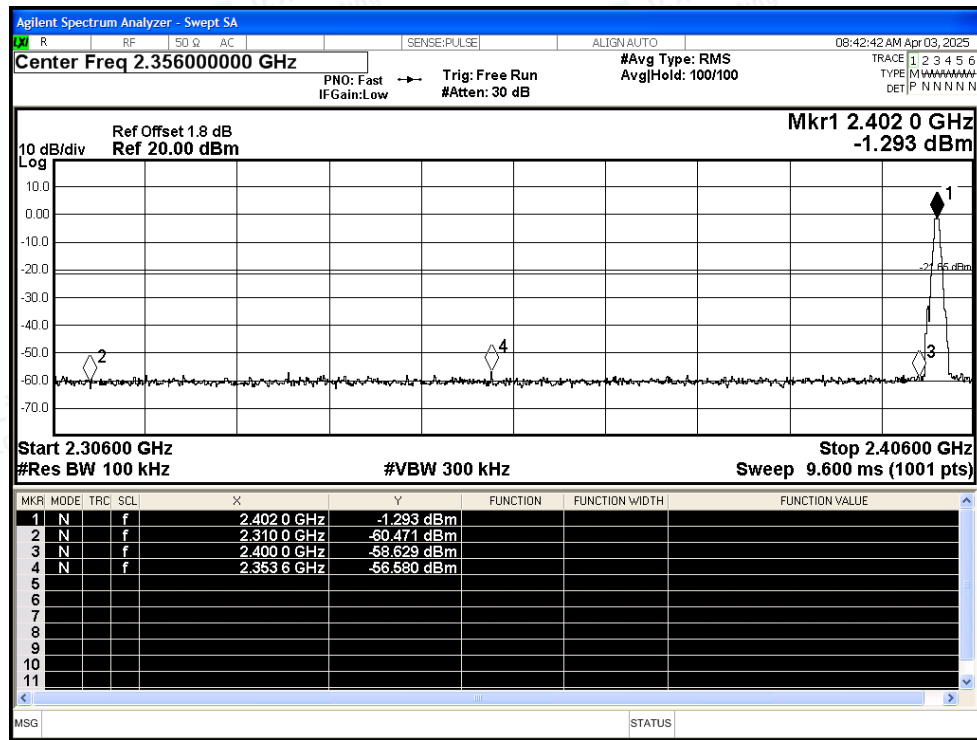


Test Graphs

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



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



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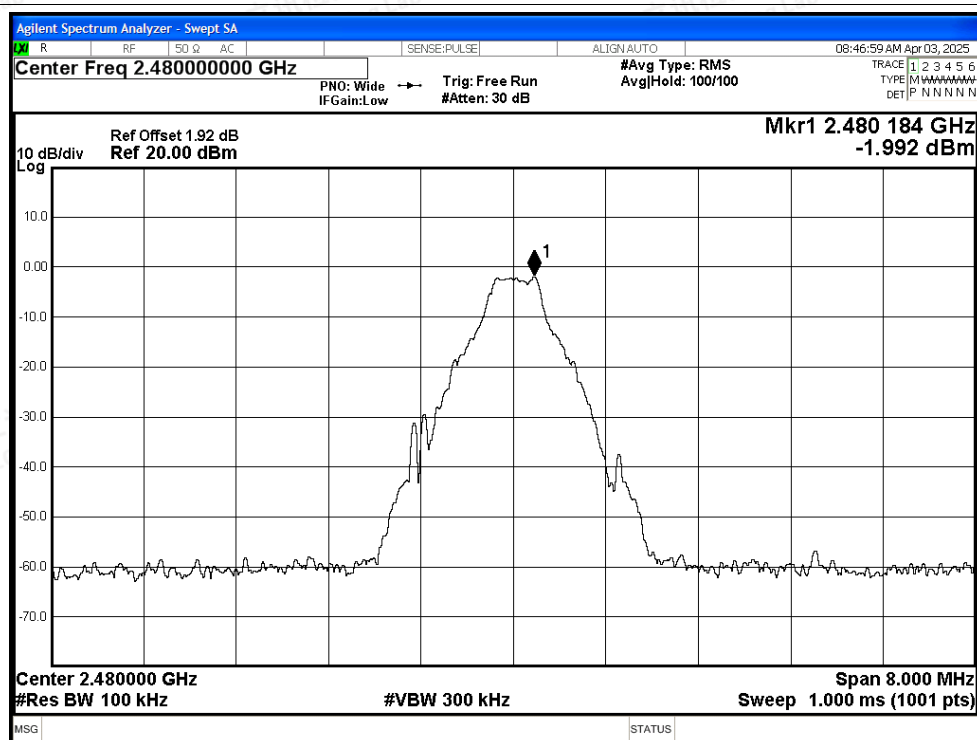
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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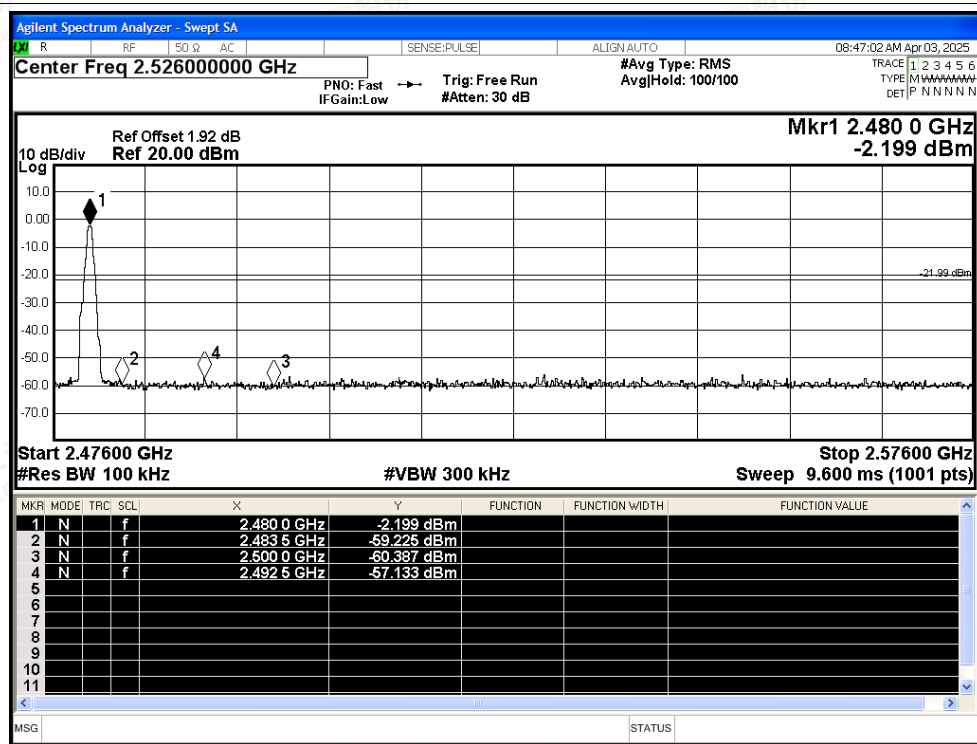
Scan code to check authenticity



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

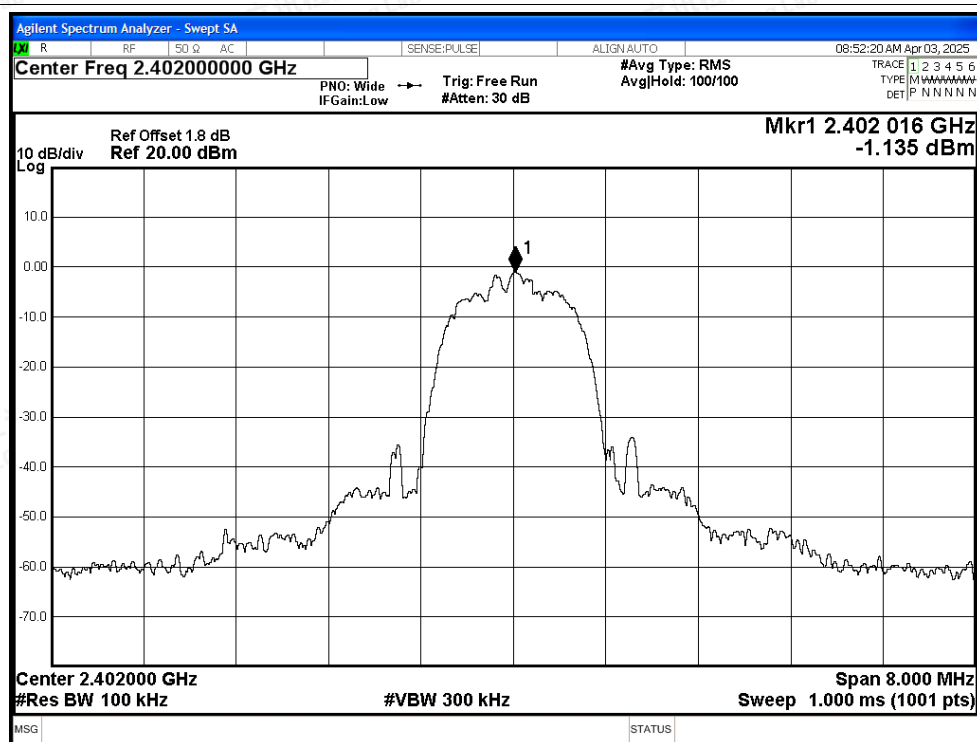


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

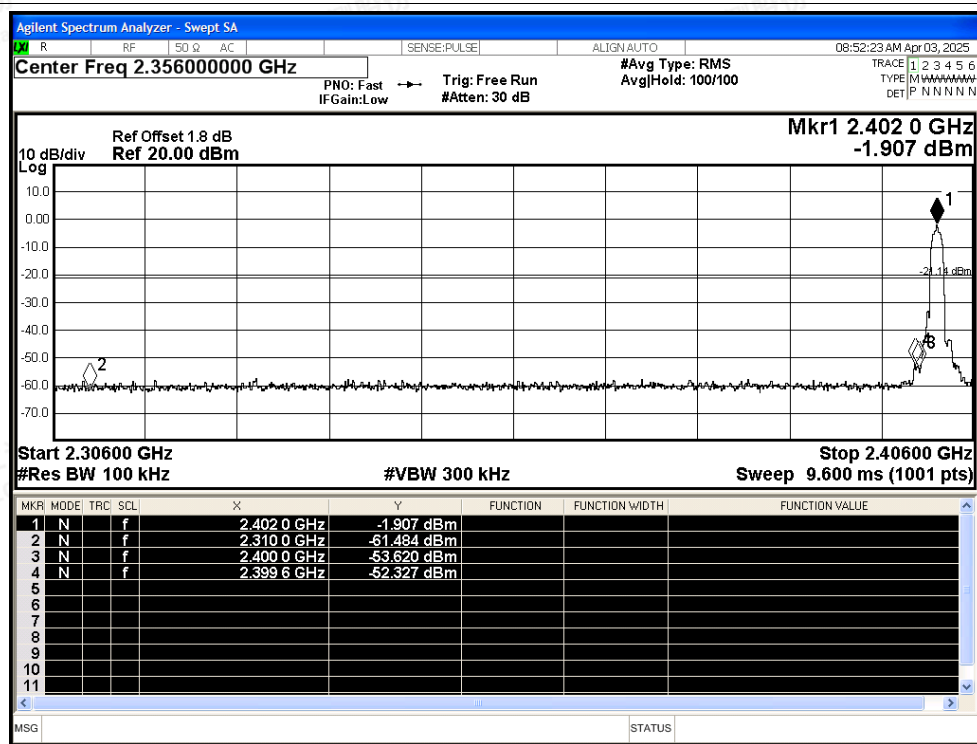




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

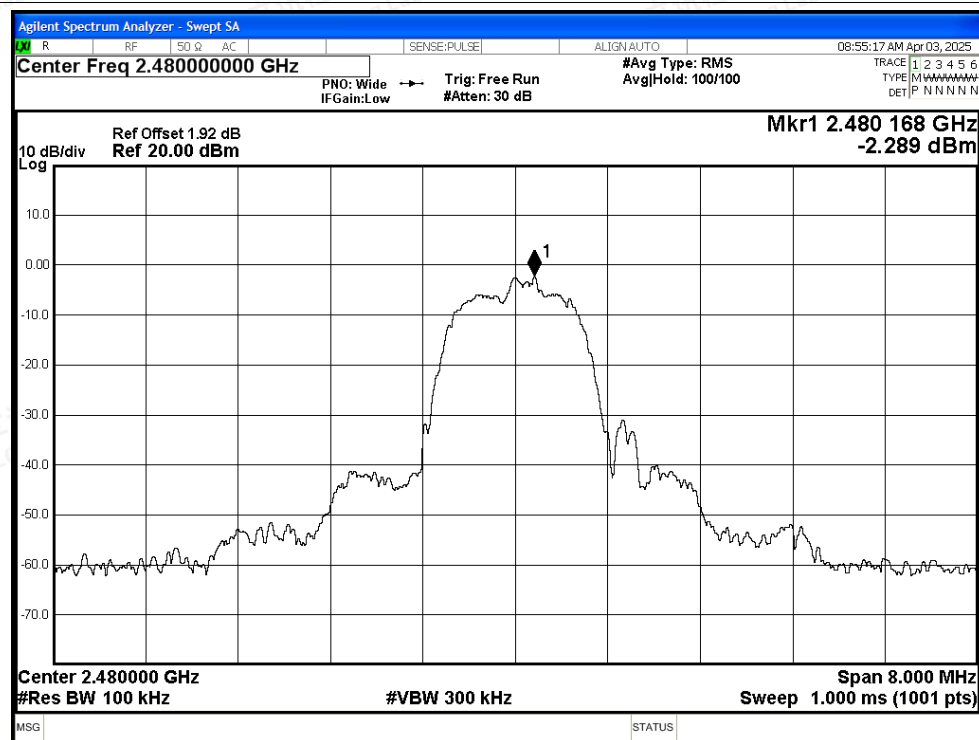


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

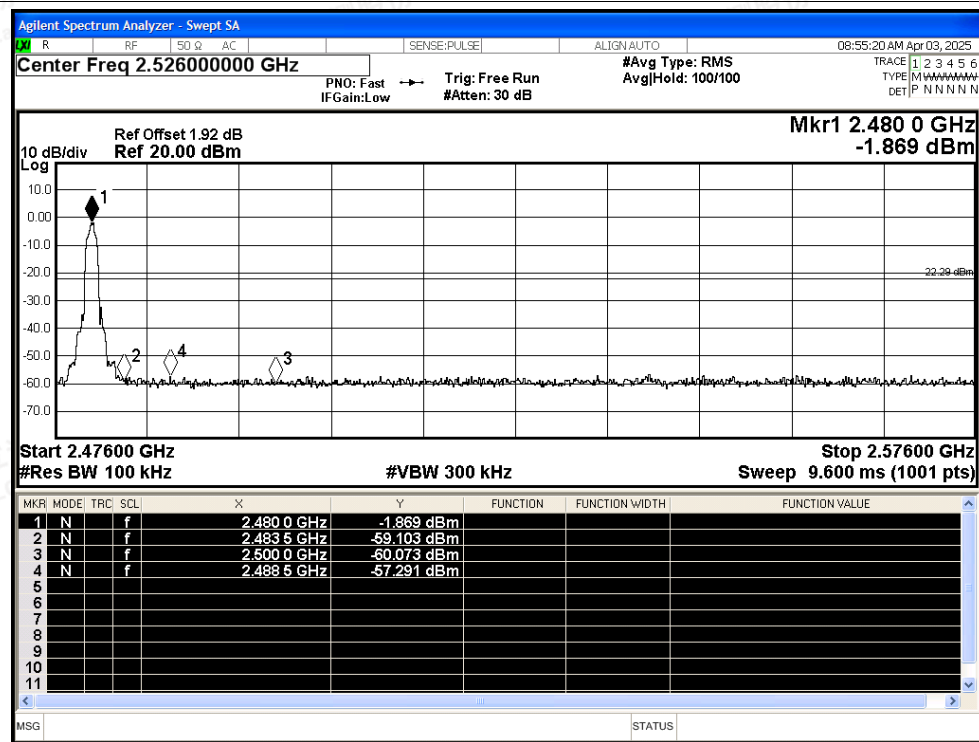




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

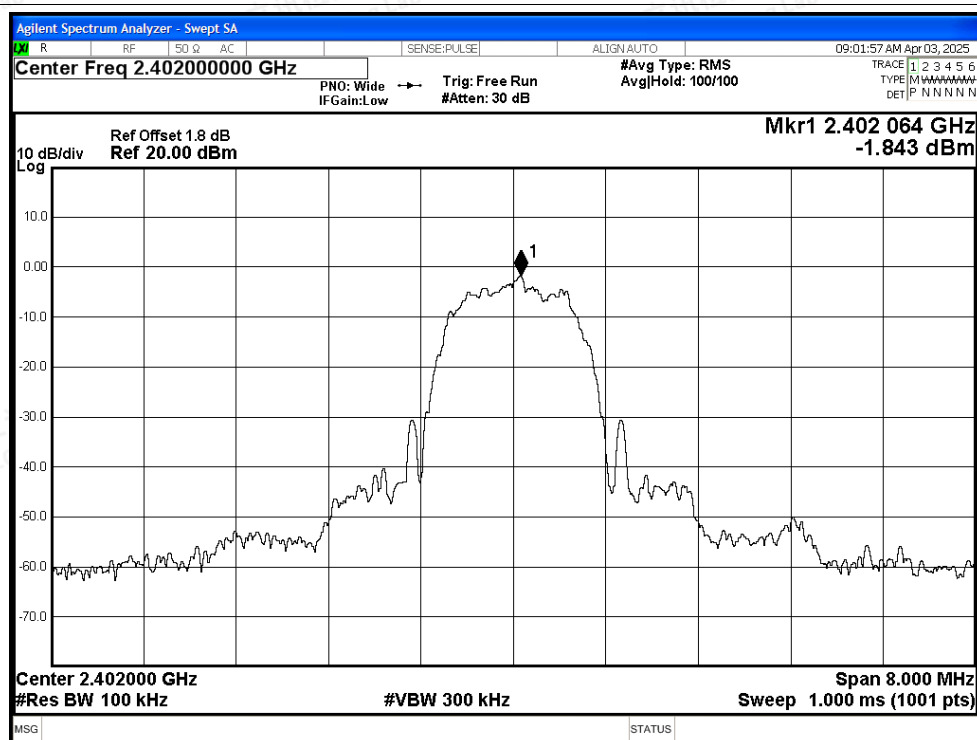


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

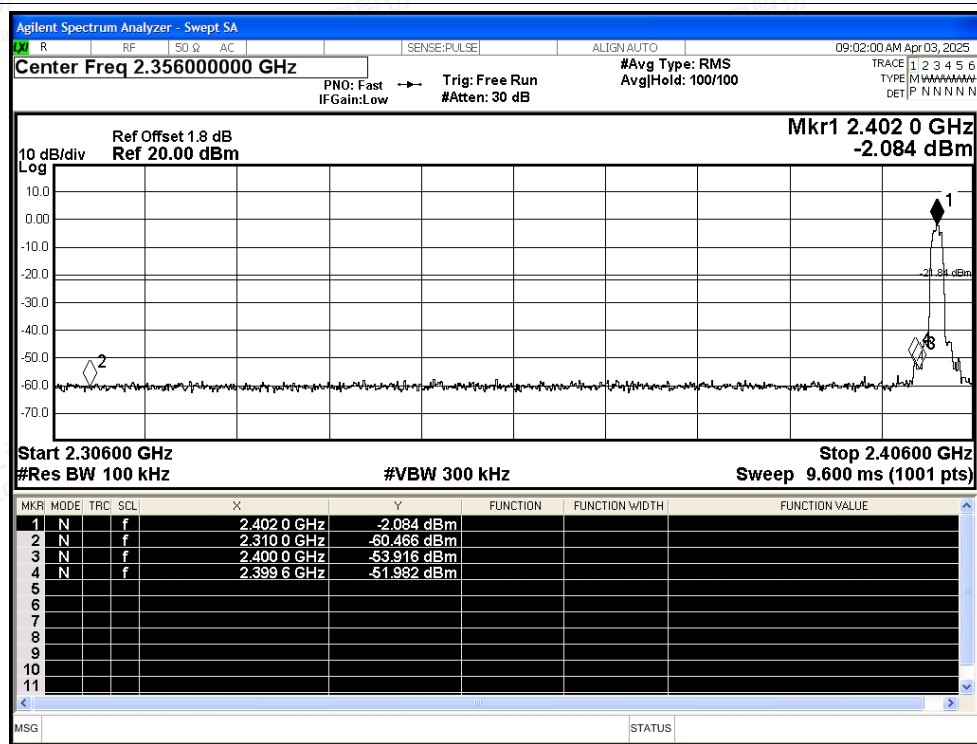




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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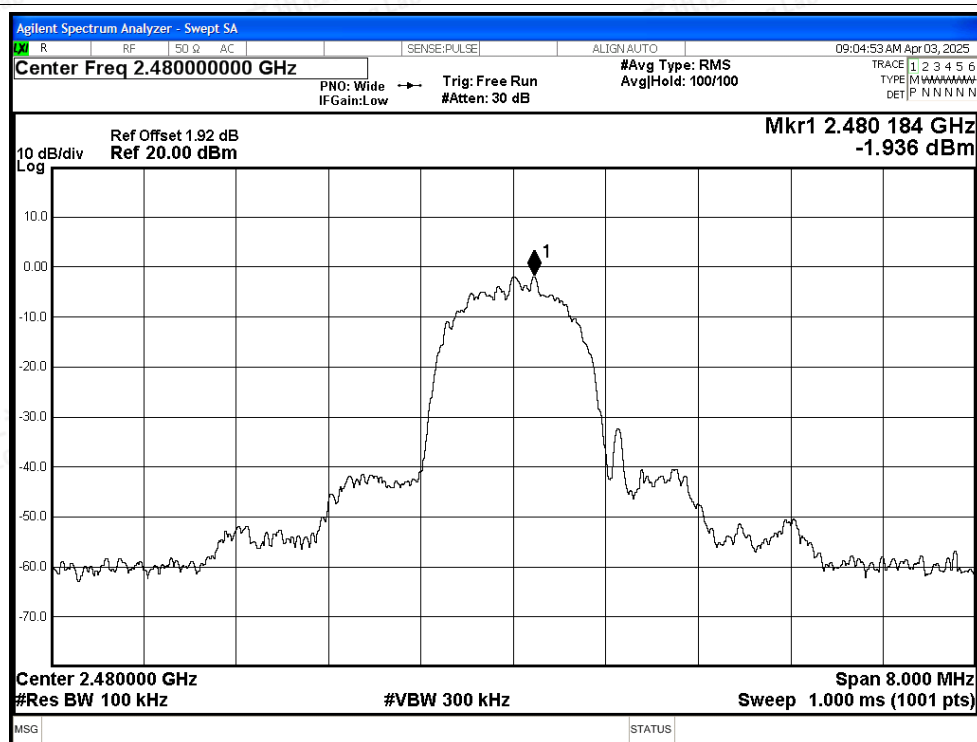
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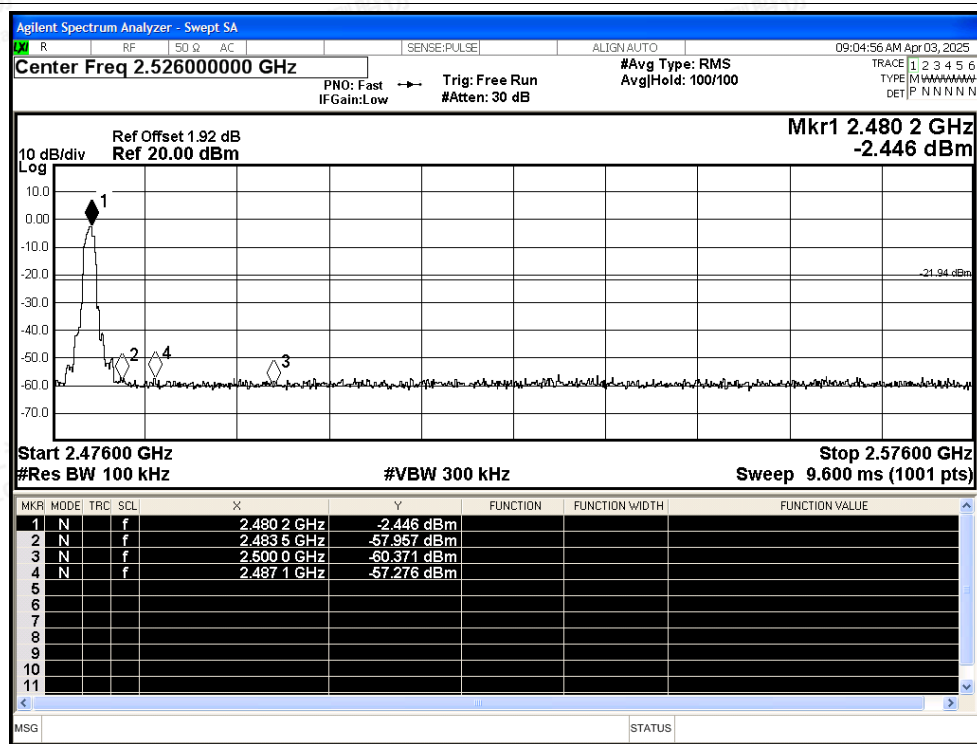
Scan code to check authenticity



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



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





(Hopping)

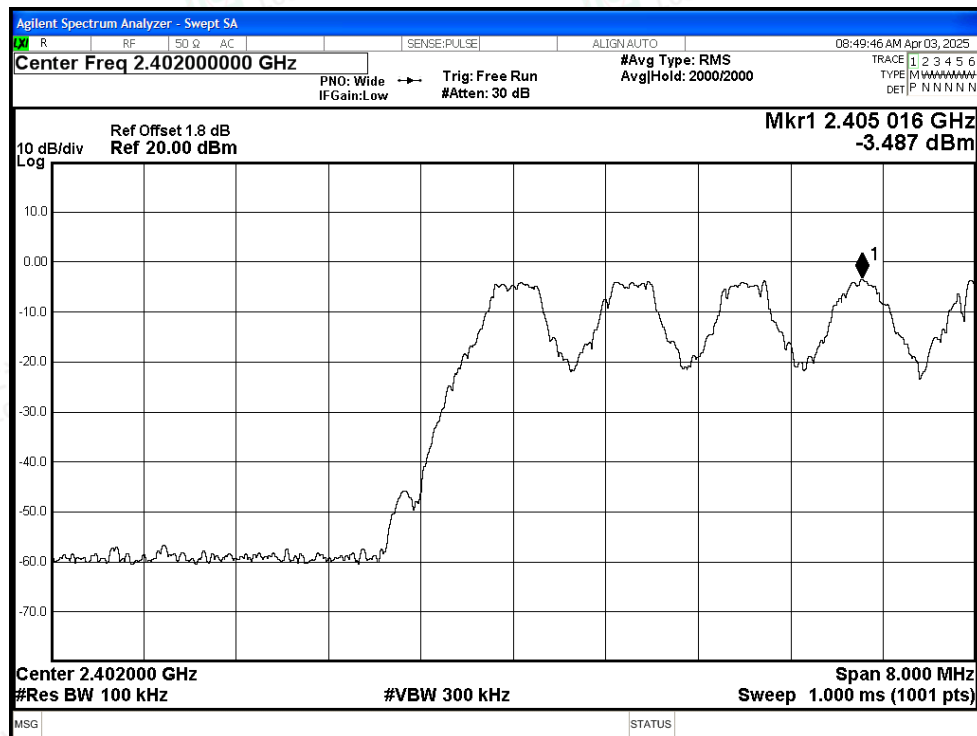
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.45	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.11	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.32	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.28	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.62	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.45	-20	Pass



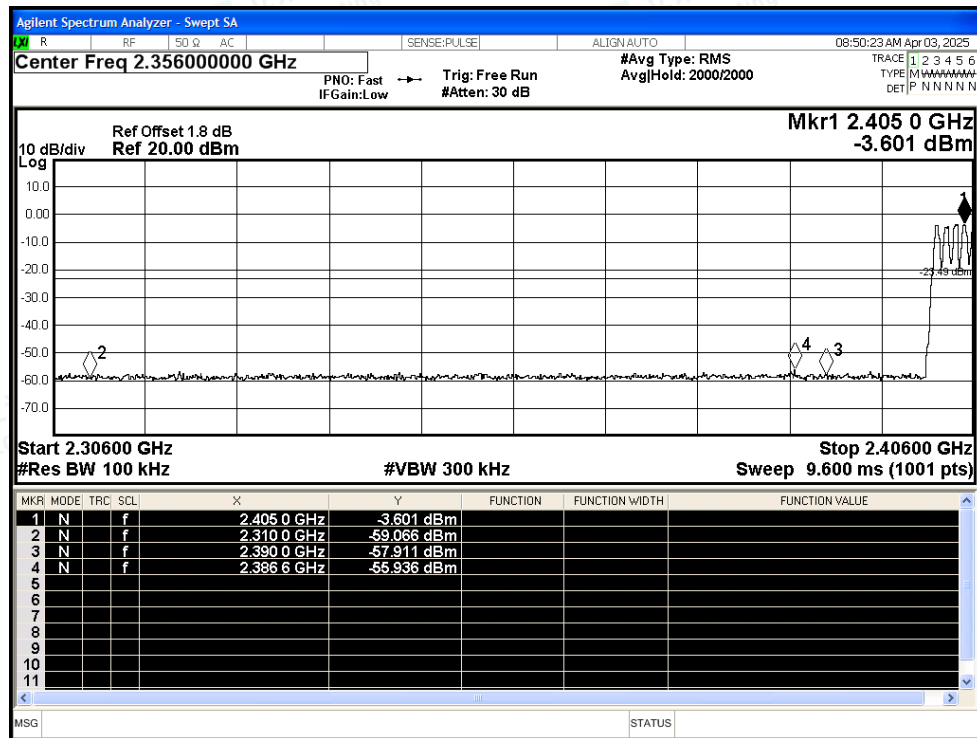


Test Graphs

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



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



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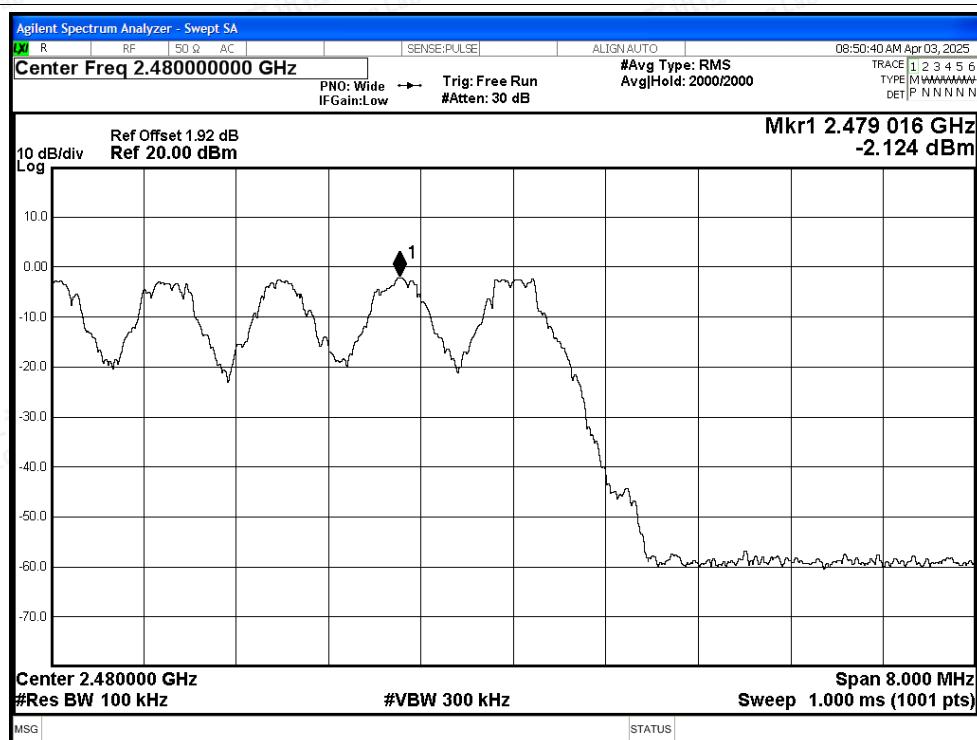
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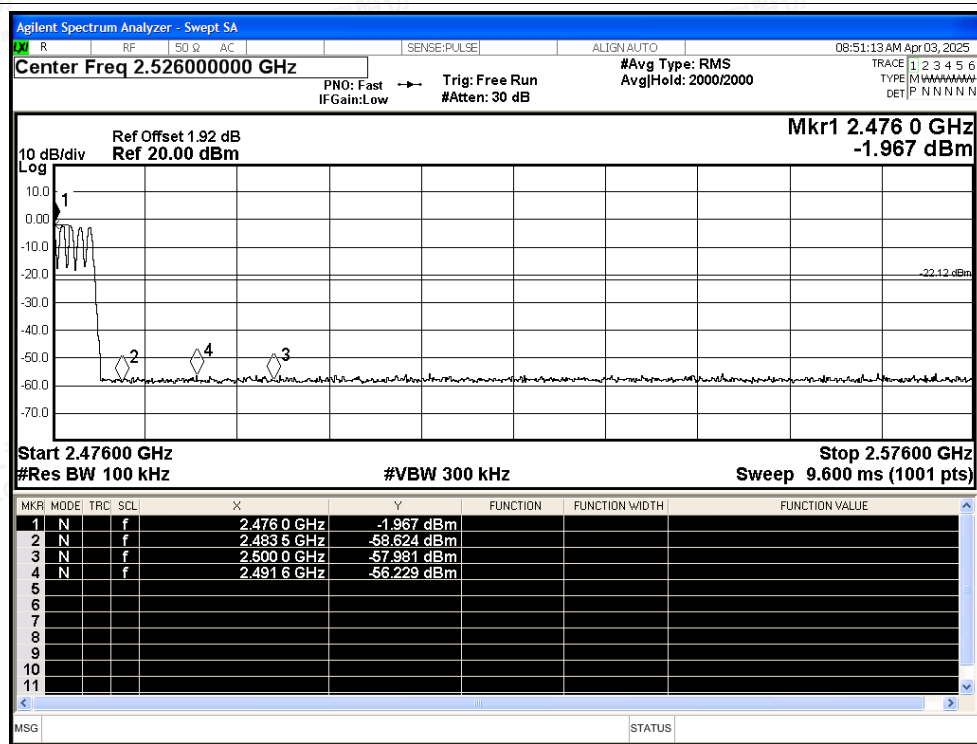
Scan code to check authenticity



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

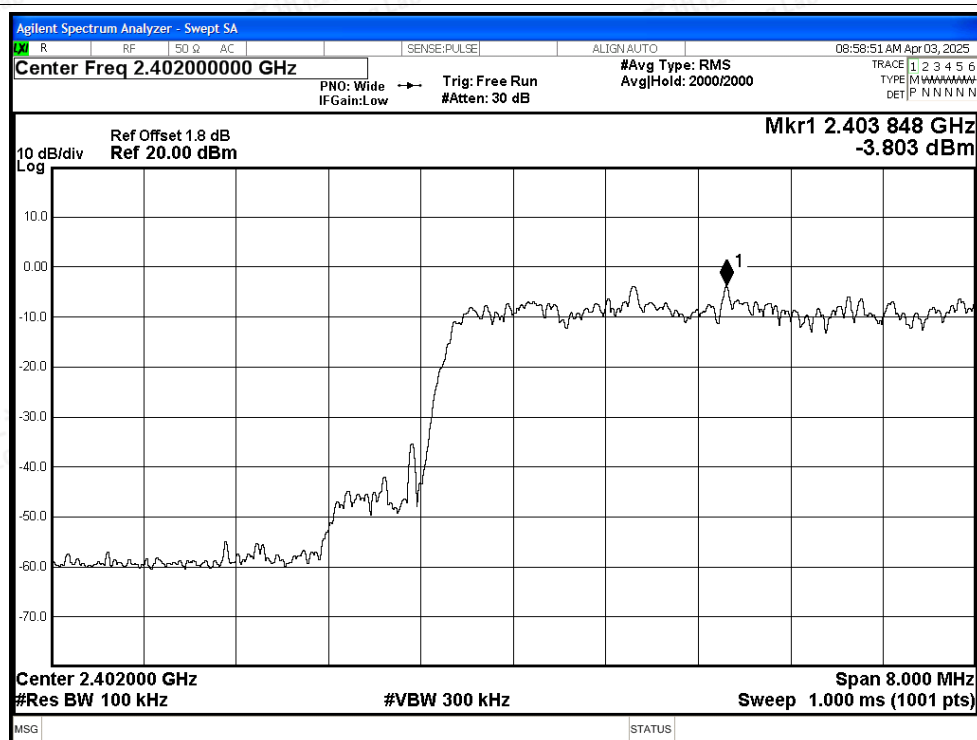


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

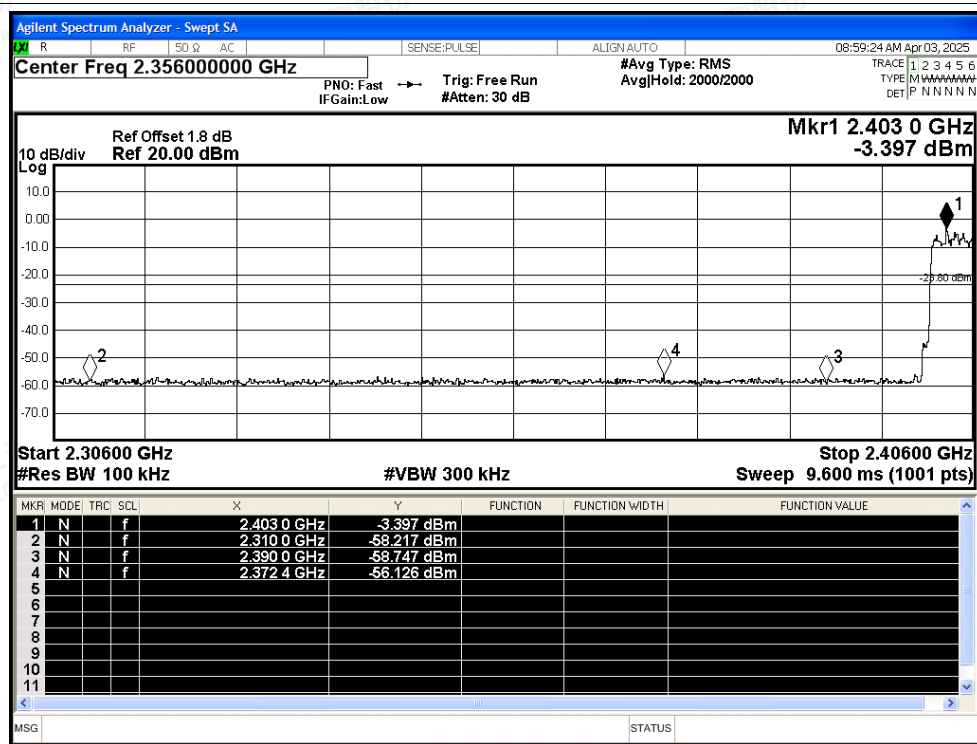




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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



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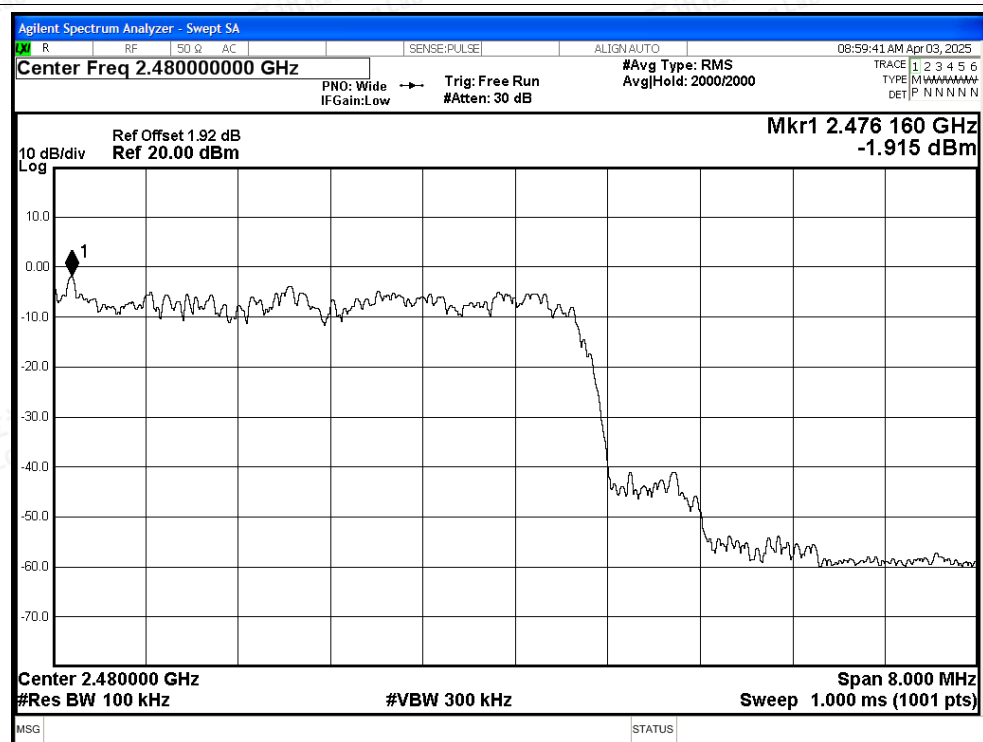
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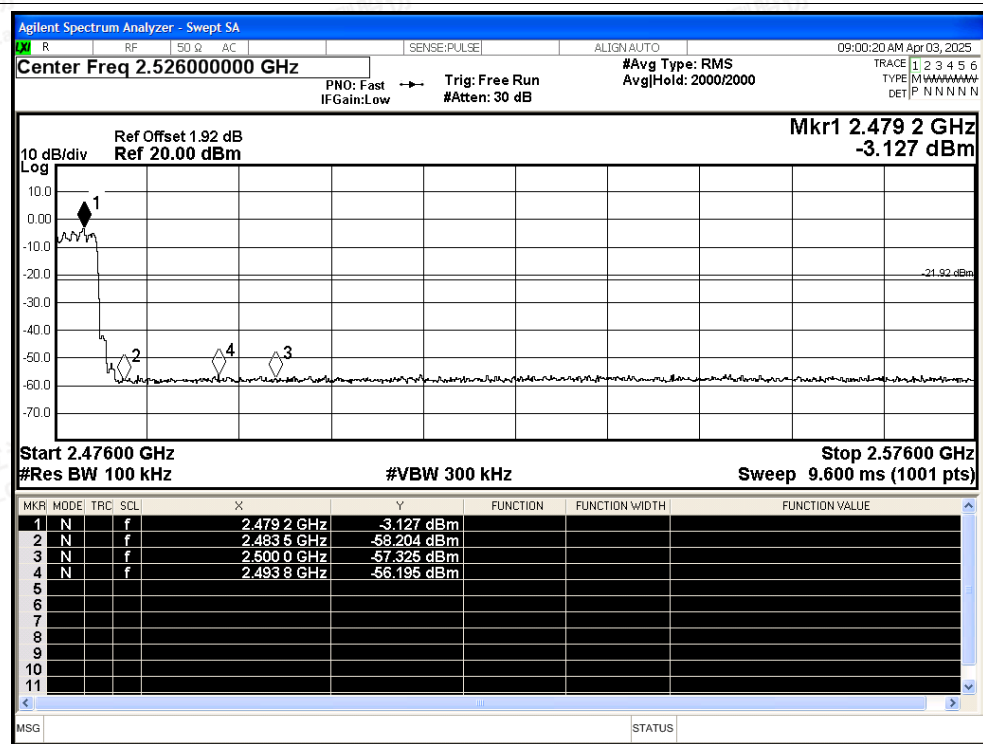
Scan code to check authenticity



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

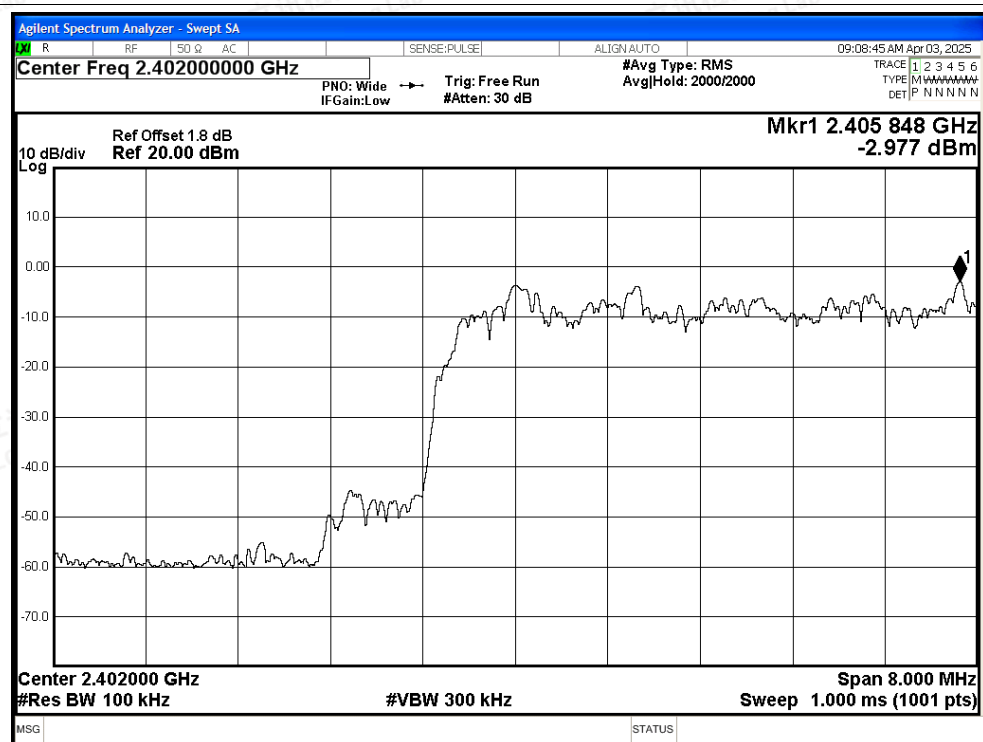


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

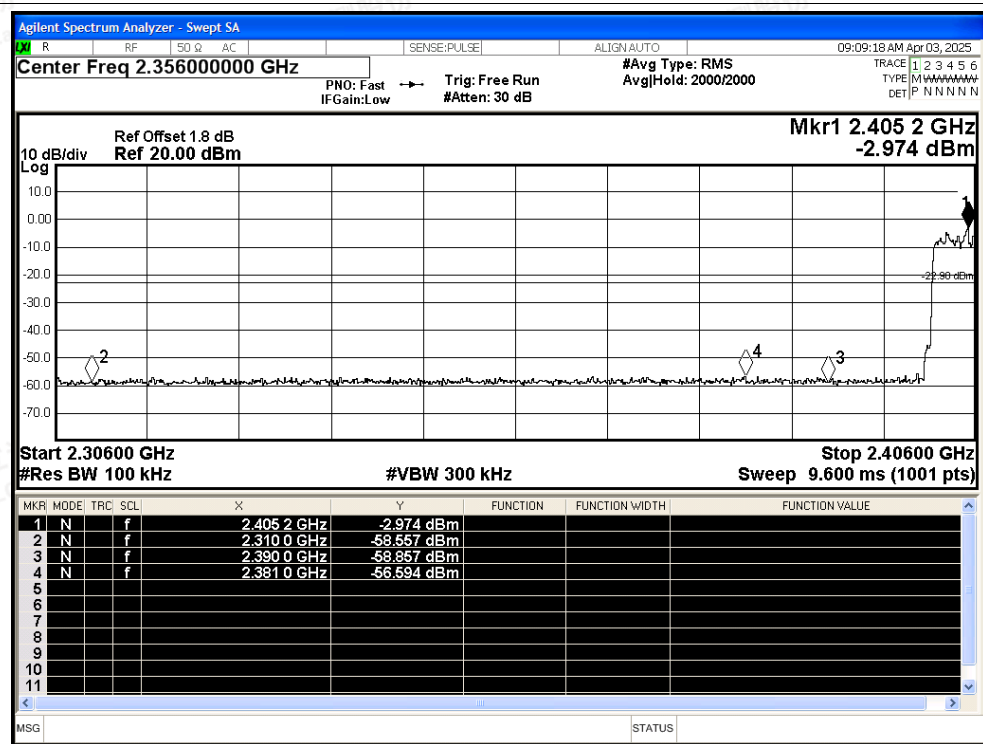




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

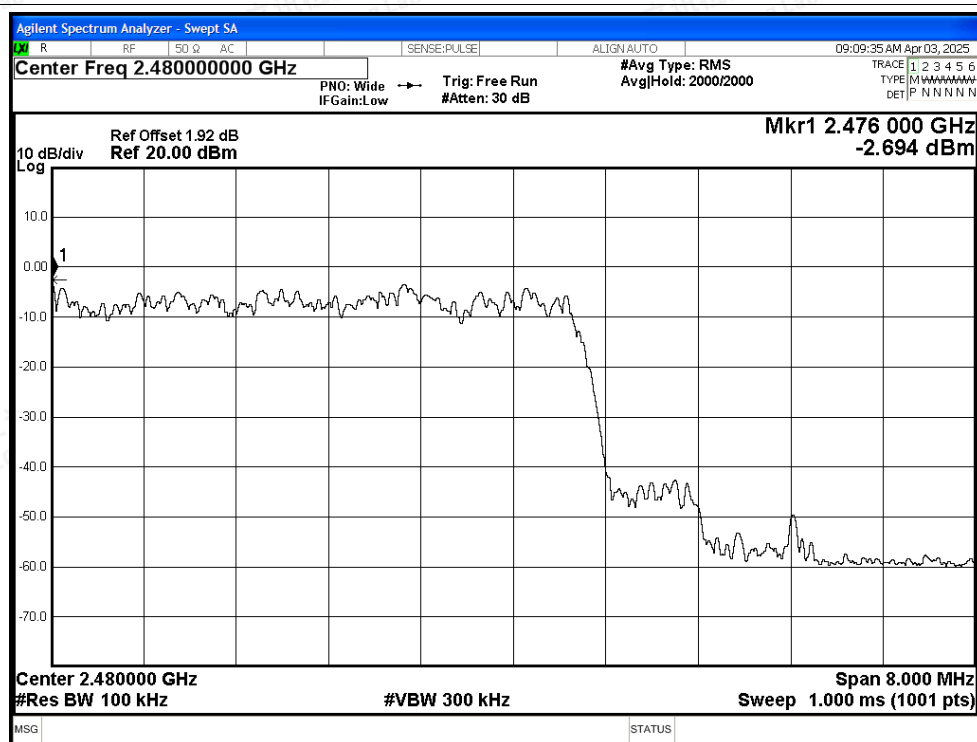


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

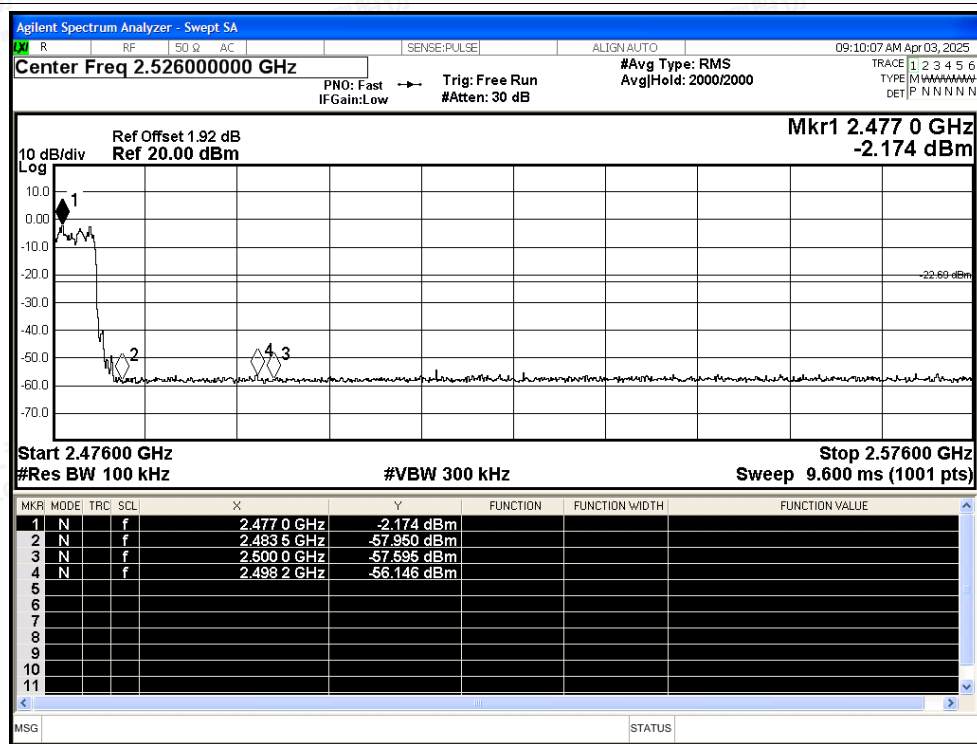




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-55.09	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.17	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.17	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.91	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.91	-20	Pass
NVNT	2-DH5	2480	Ant1	-50.58	-20	Pass
NVNT	3-DH5	2402	Ant1	-55.09	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.88	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.75	-20	Pass

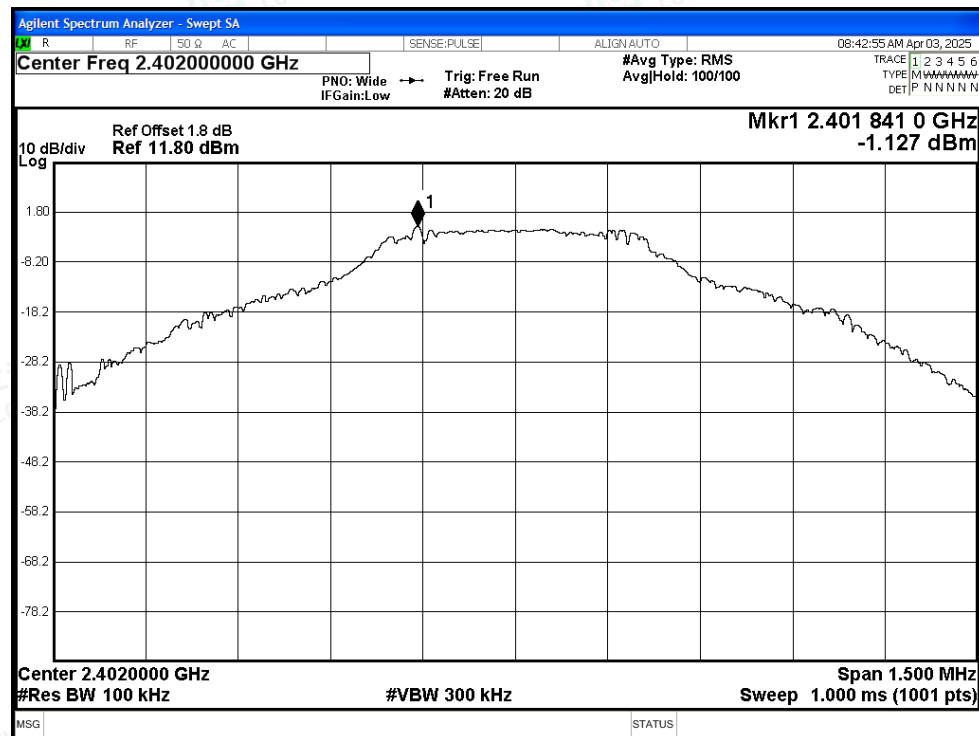


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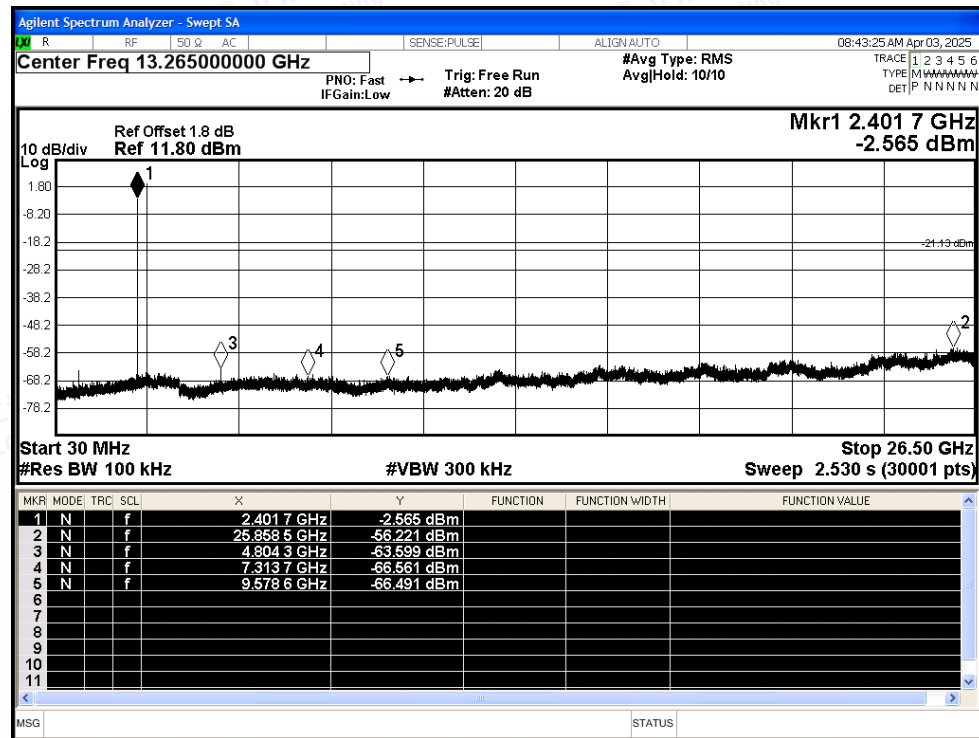


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

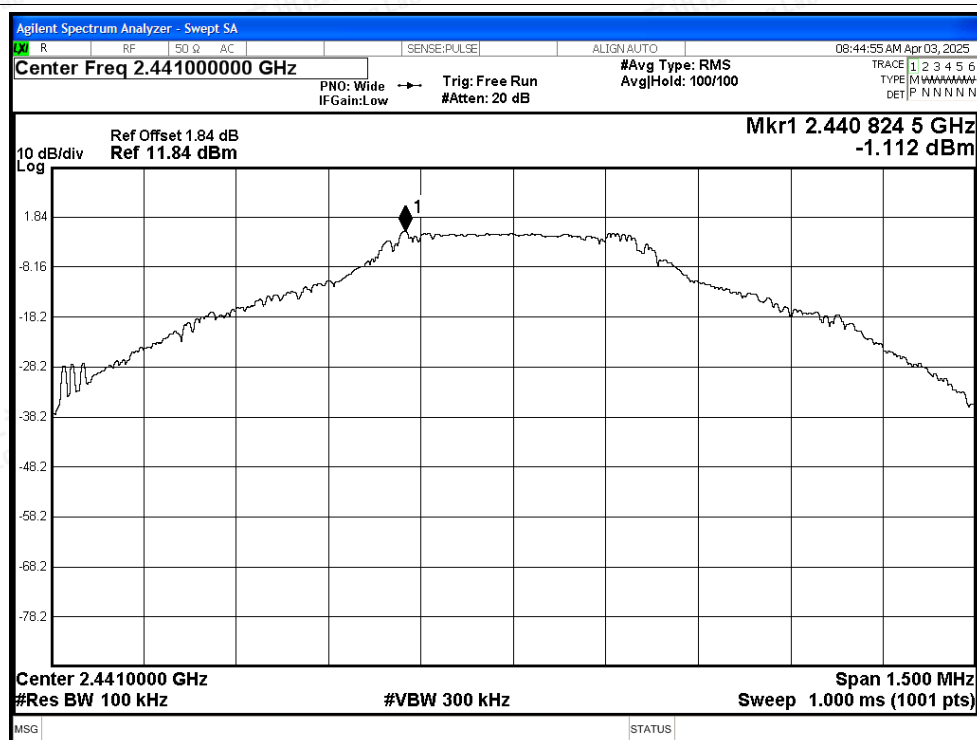


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

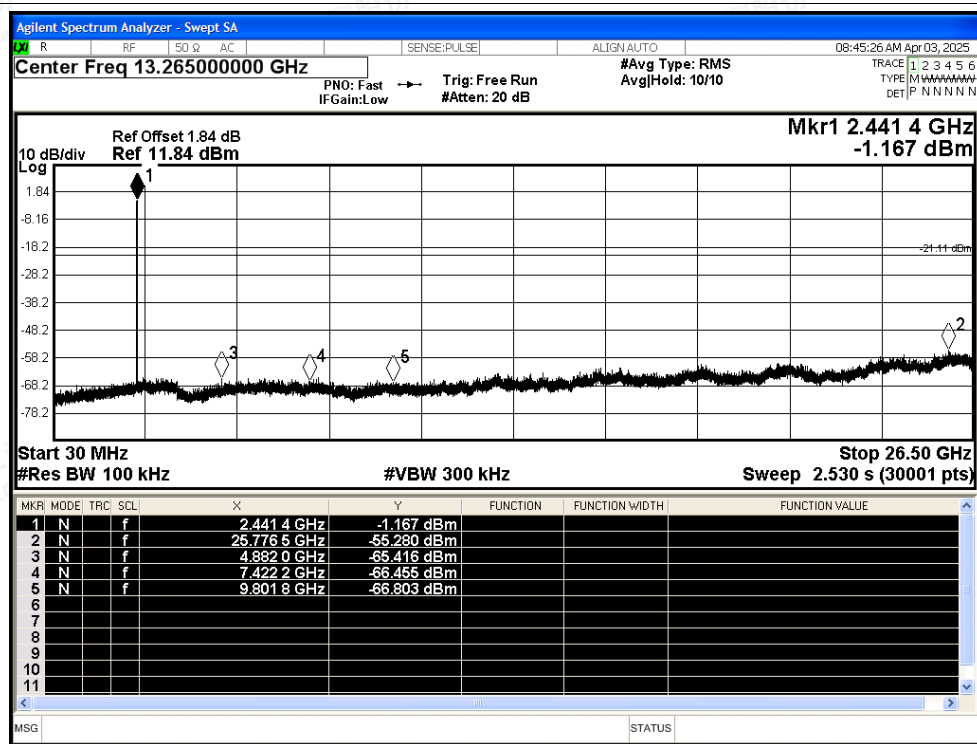




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

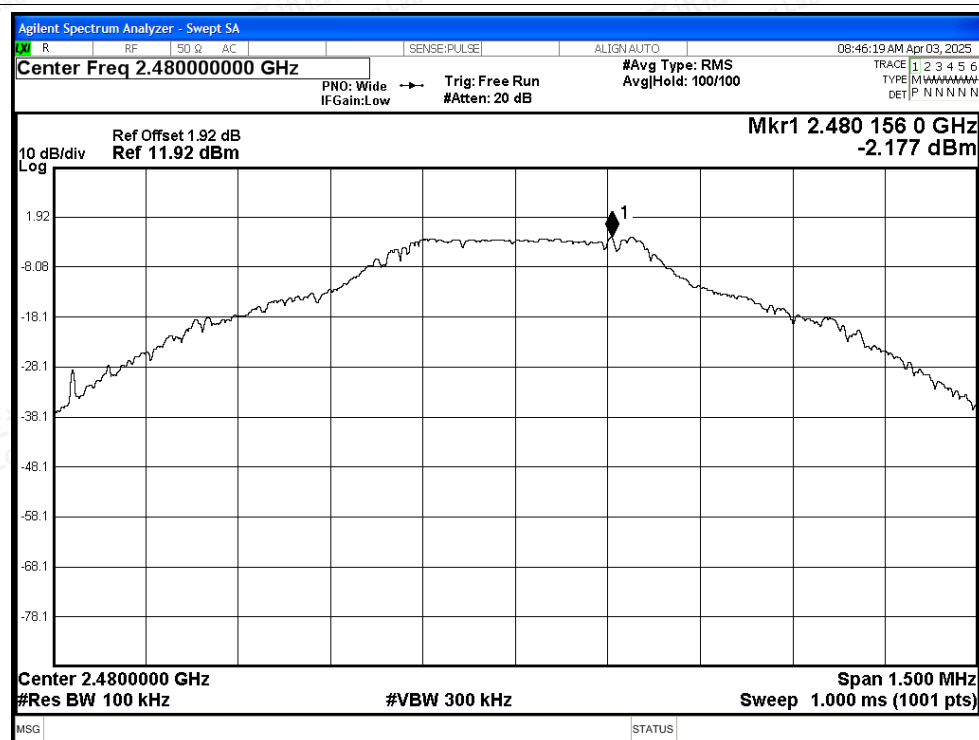
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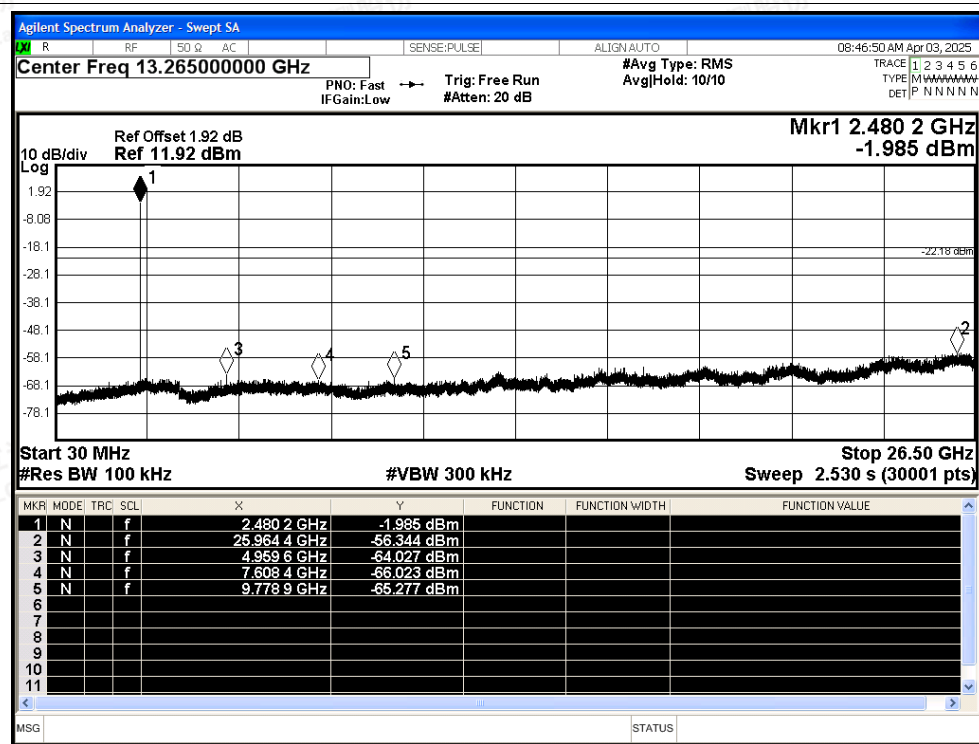
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

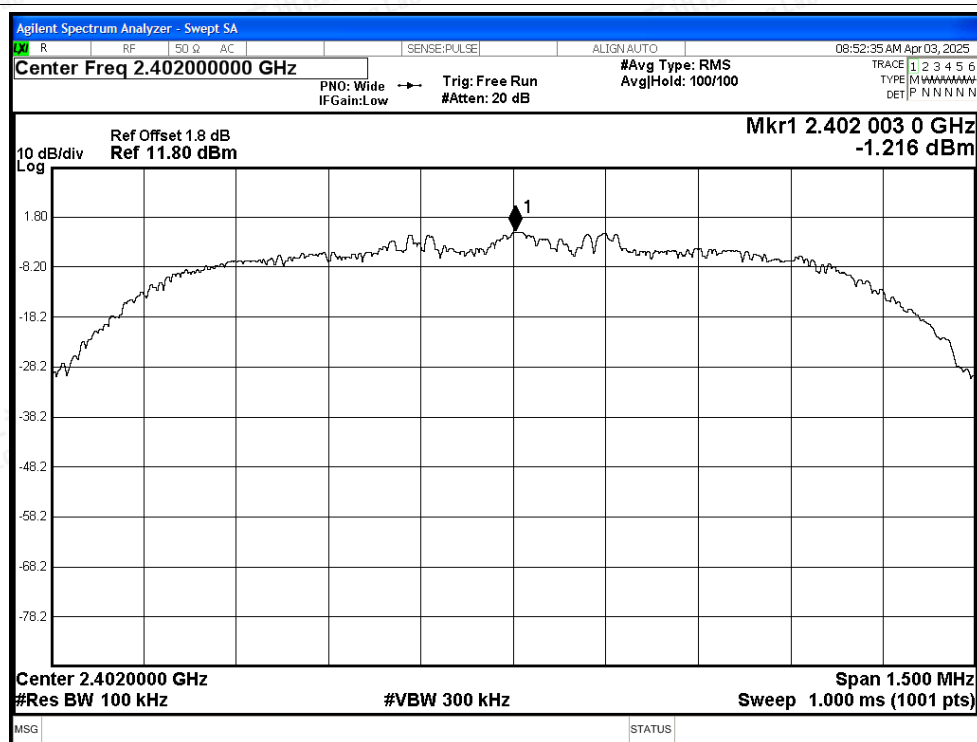


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	2.480 2 GHz	-1.985 dBm			
2	N		f	25.964 4 GHz	-56.344 dBm			
3	N		f	4.959 6 GHz	-64.027 dBm			
4	N		f	7.608 4 GHz	-66.023 dBm			
5	N		f	9.779 9 GHz	-65.277 dBm			
6								
7								
8								
9								
10								
11								

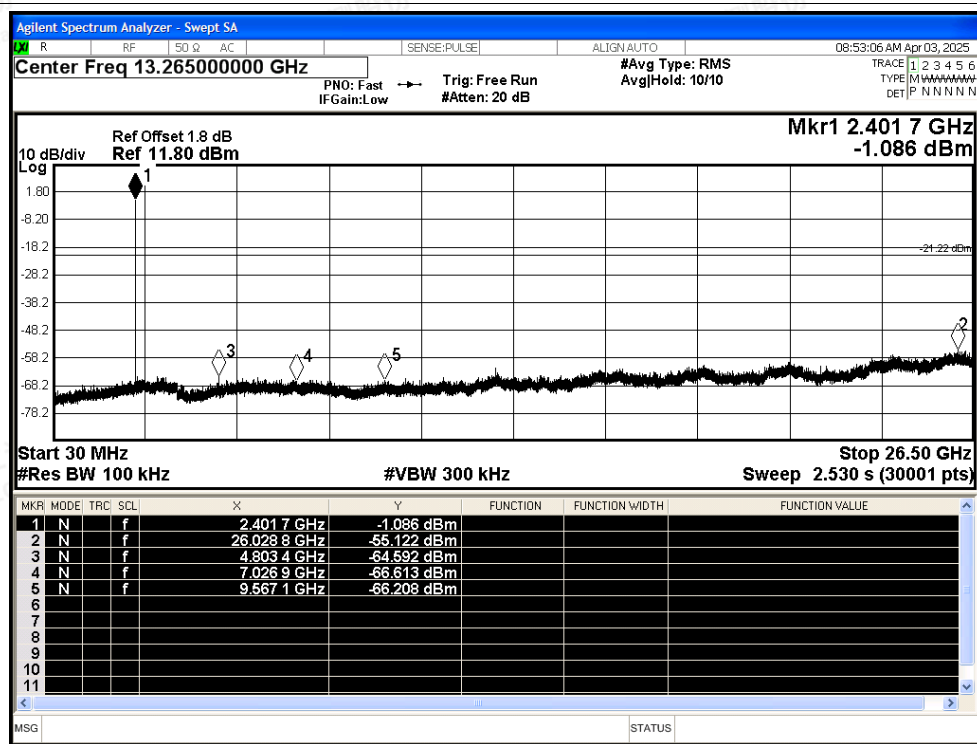




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

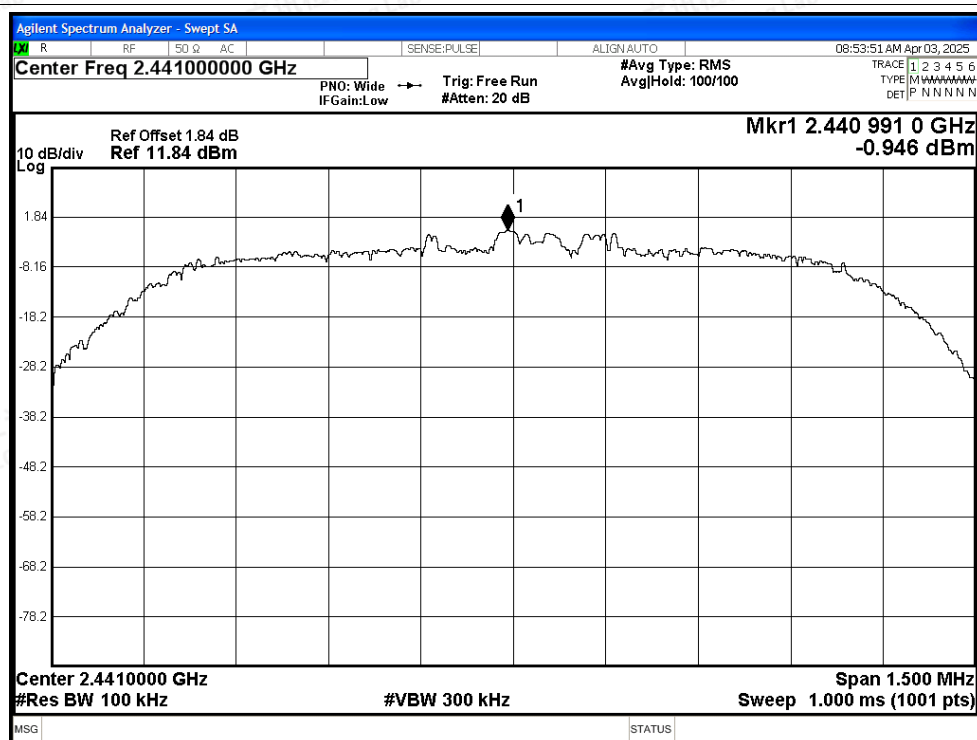


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

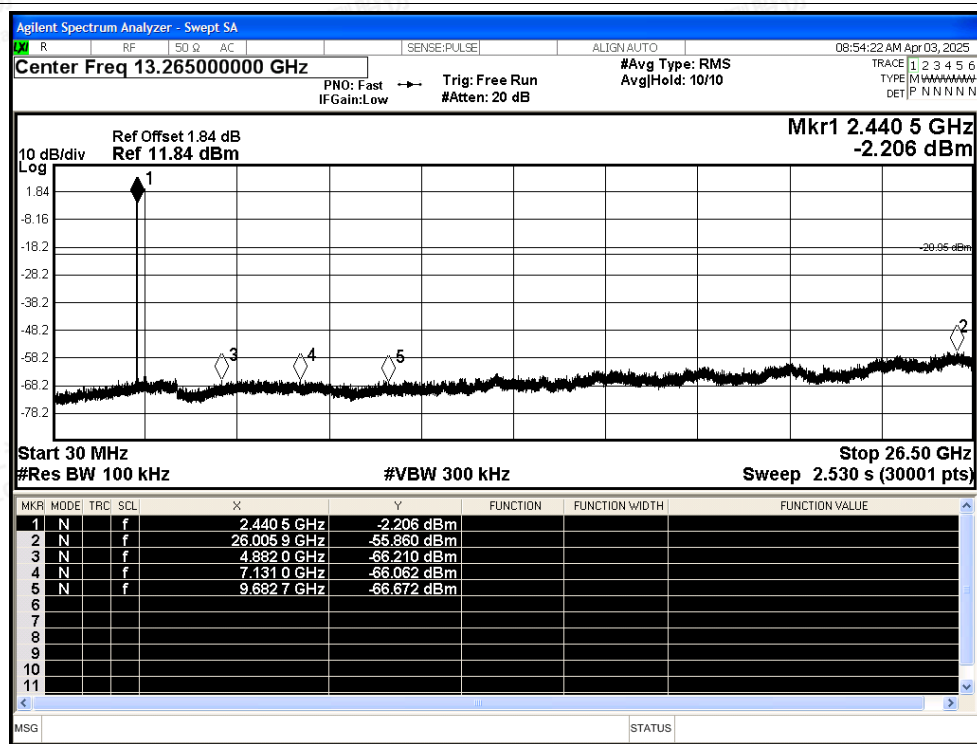




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

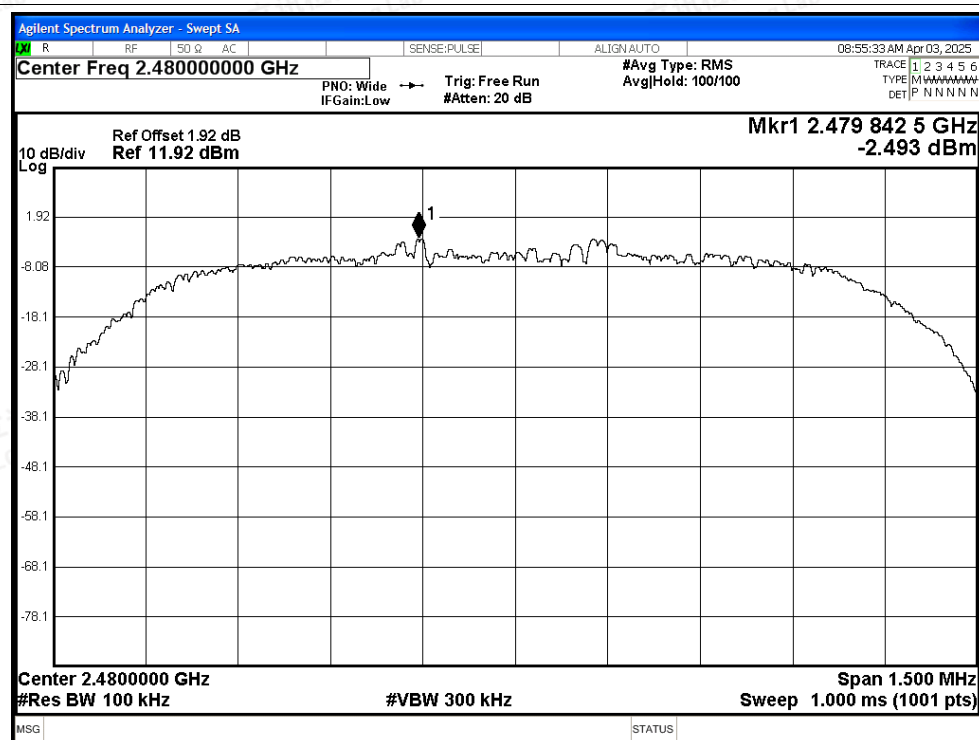


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

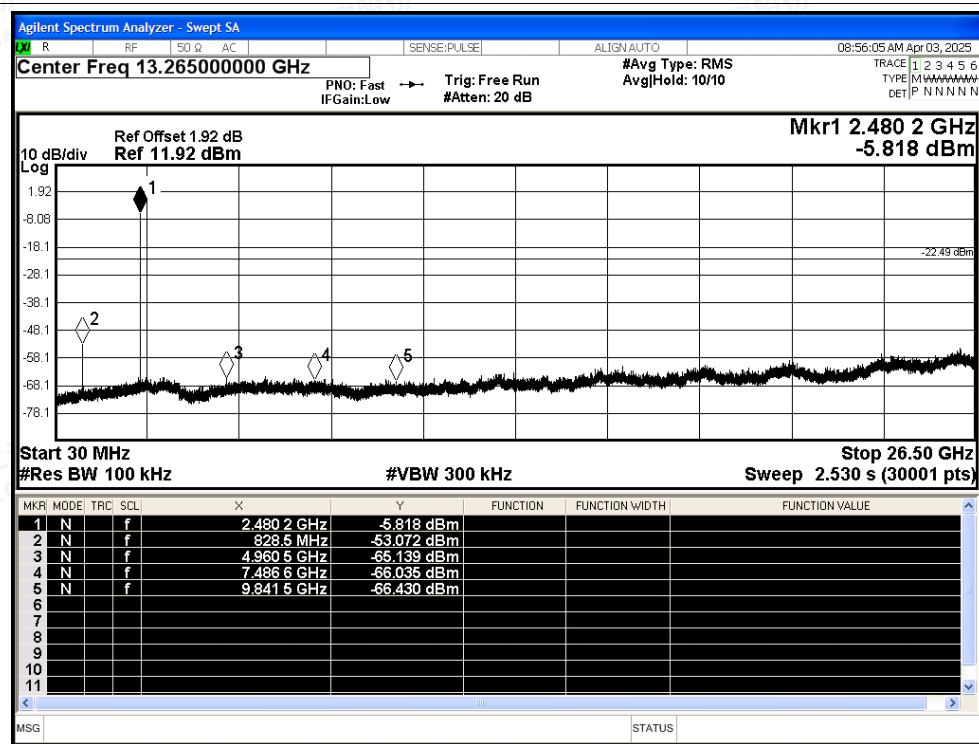




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



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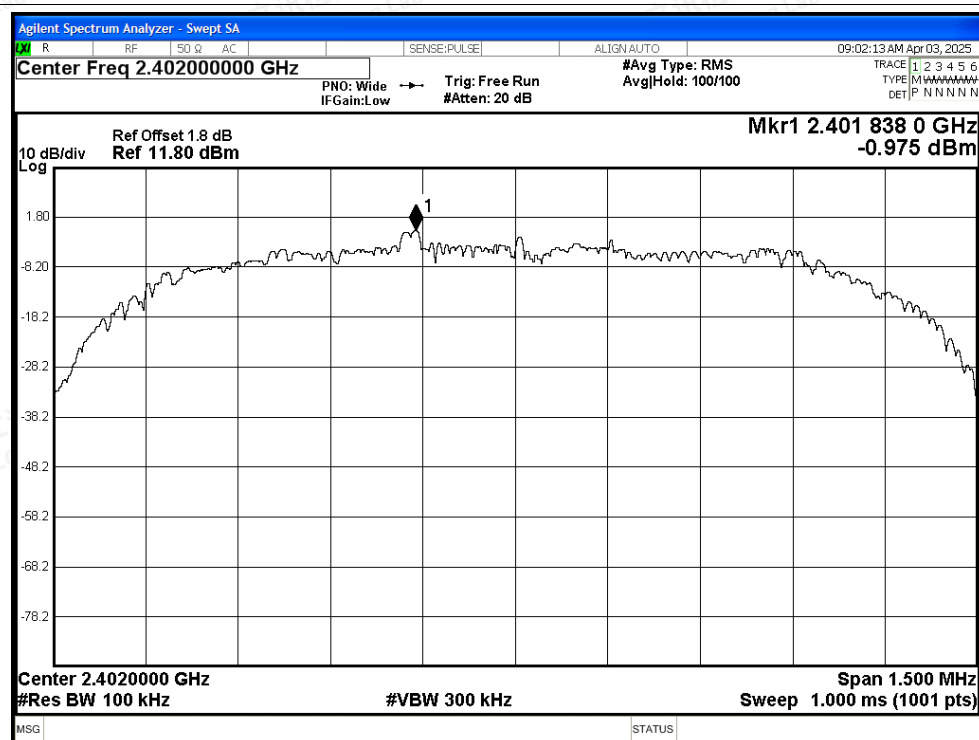
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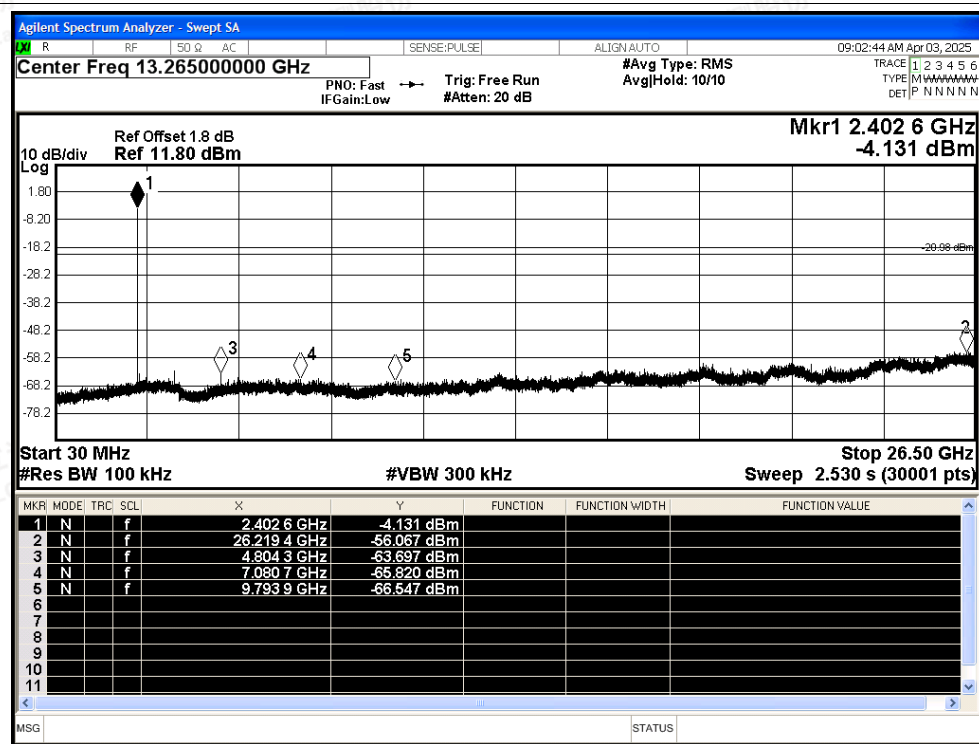
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

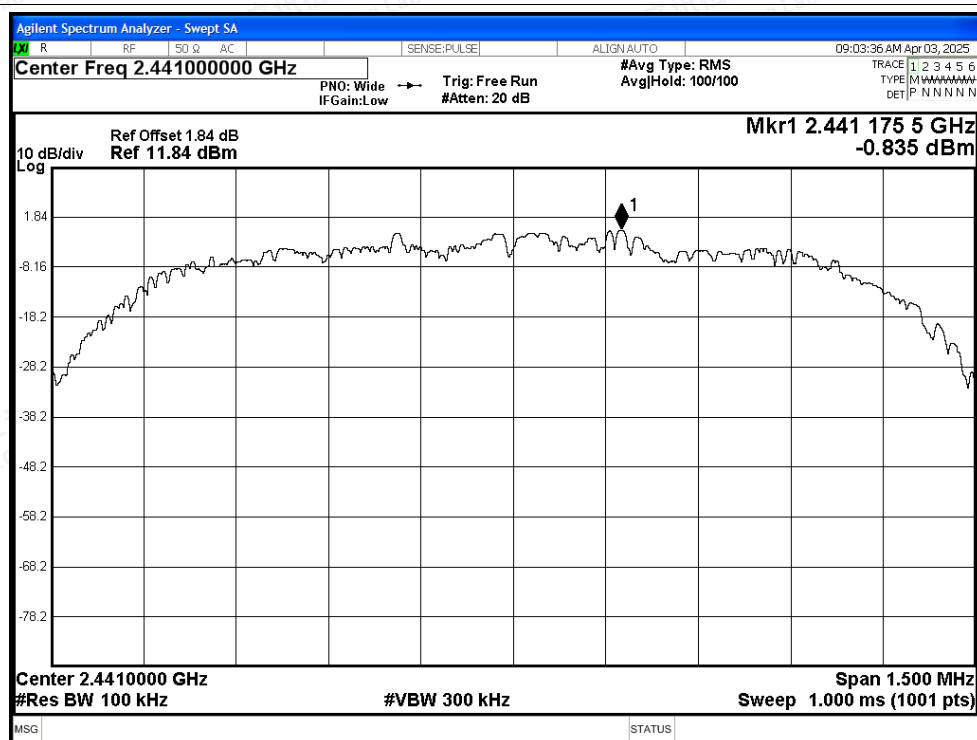
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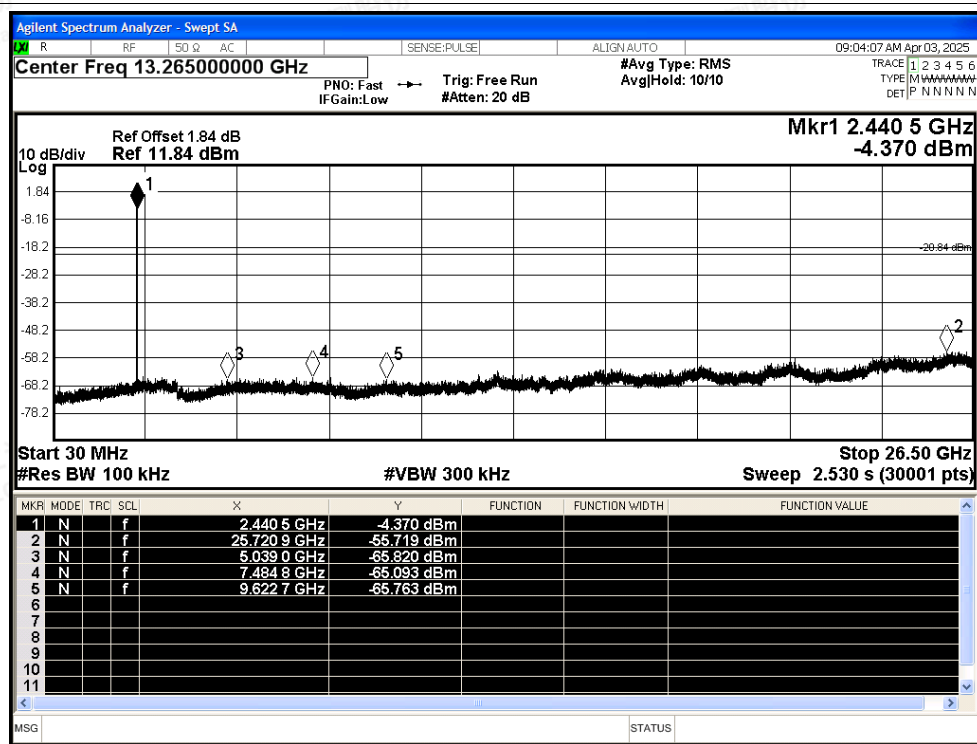
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

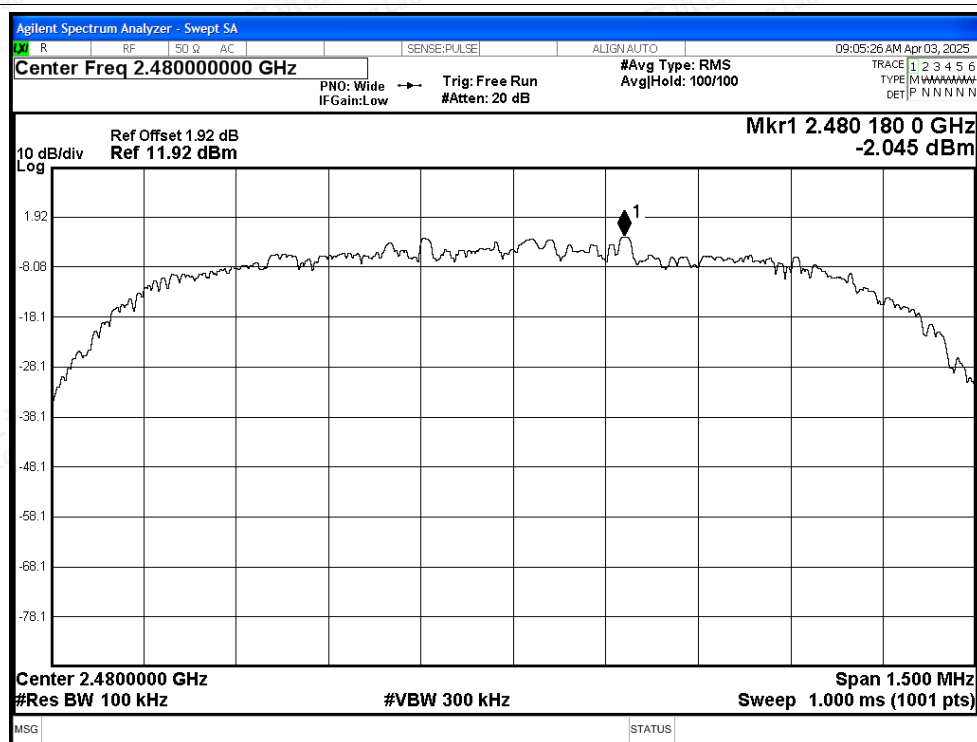


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

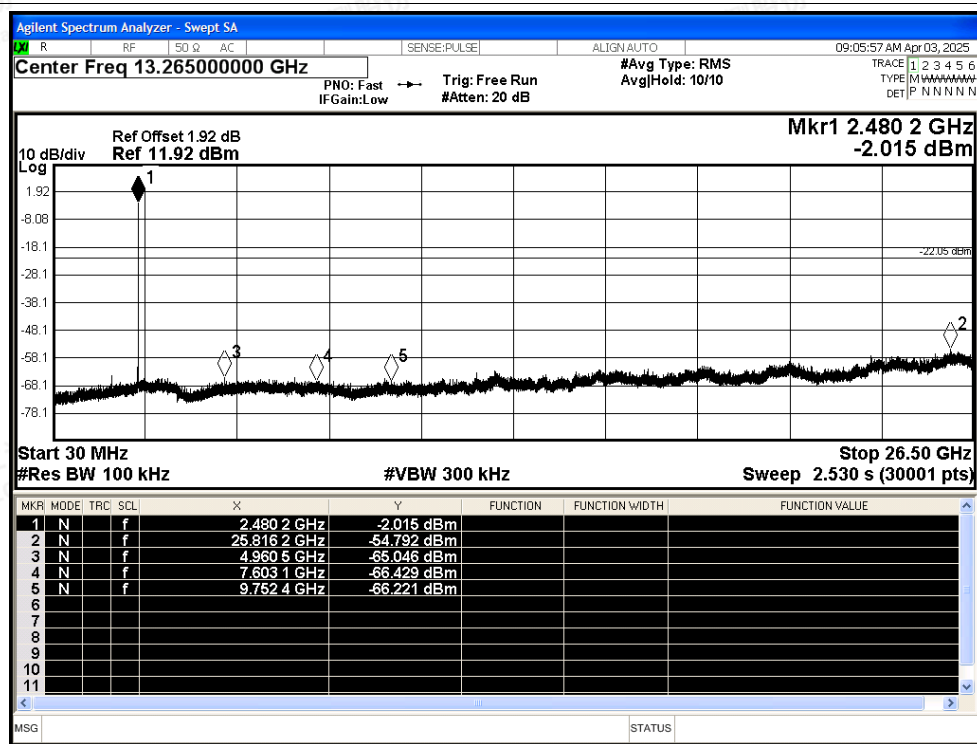




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	77.63	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	77.33	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

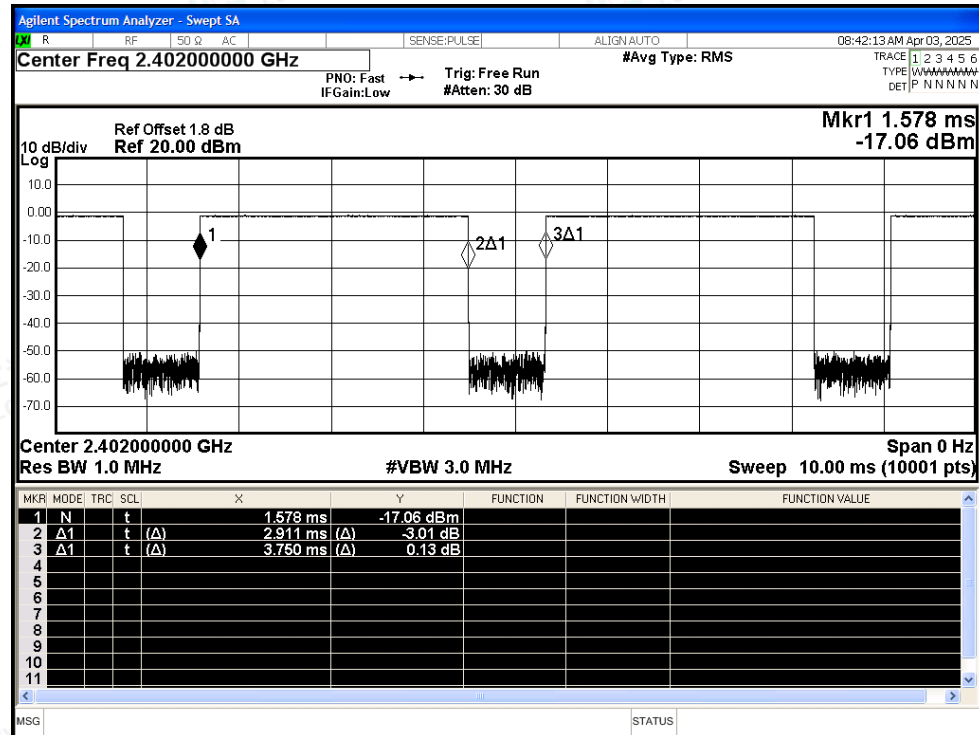


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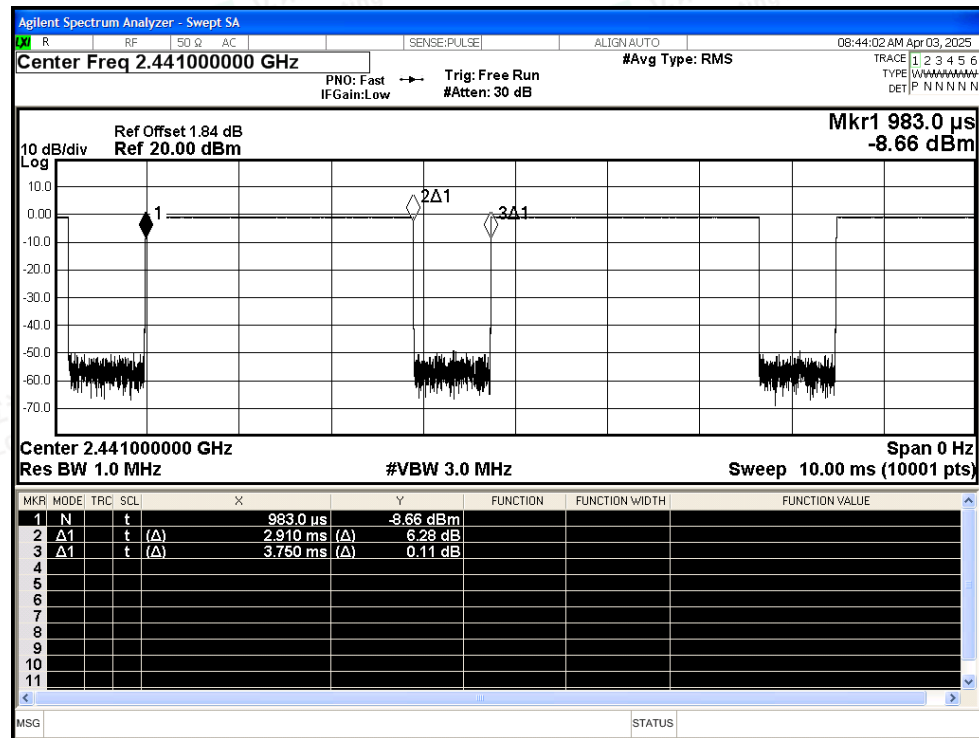


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

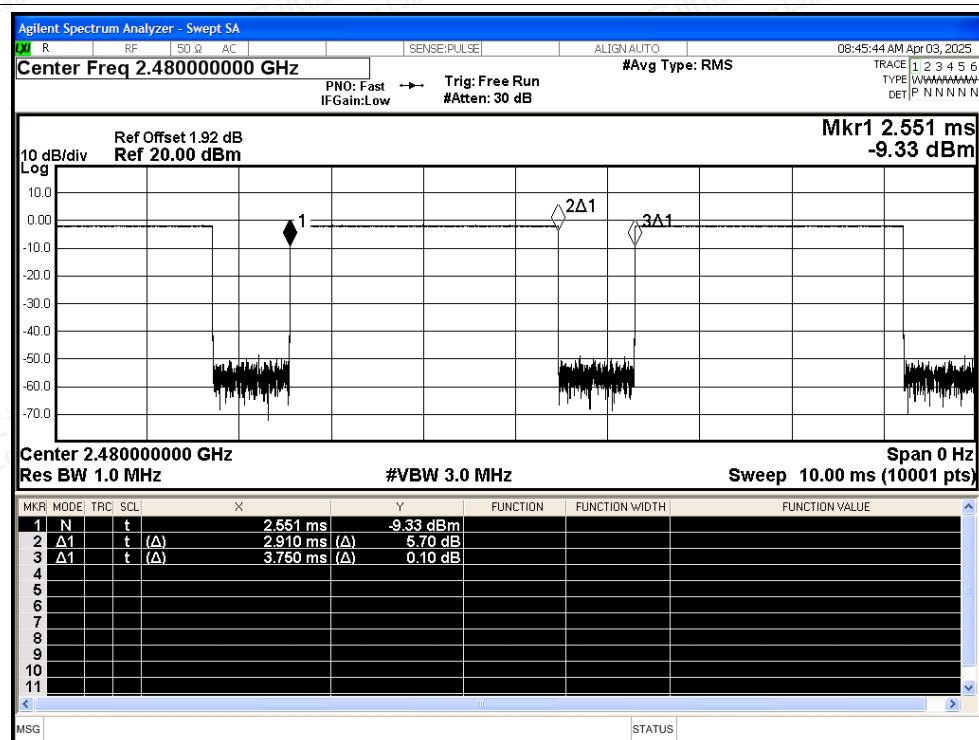


Duty Cycle NVNT 1-DH5 2441MHz Ant1

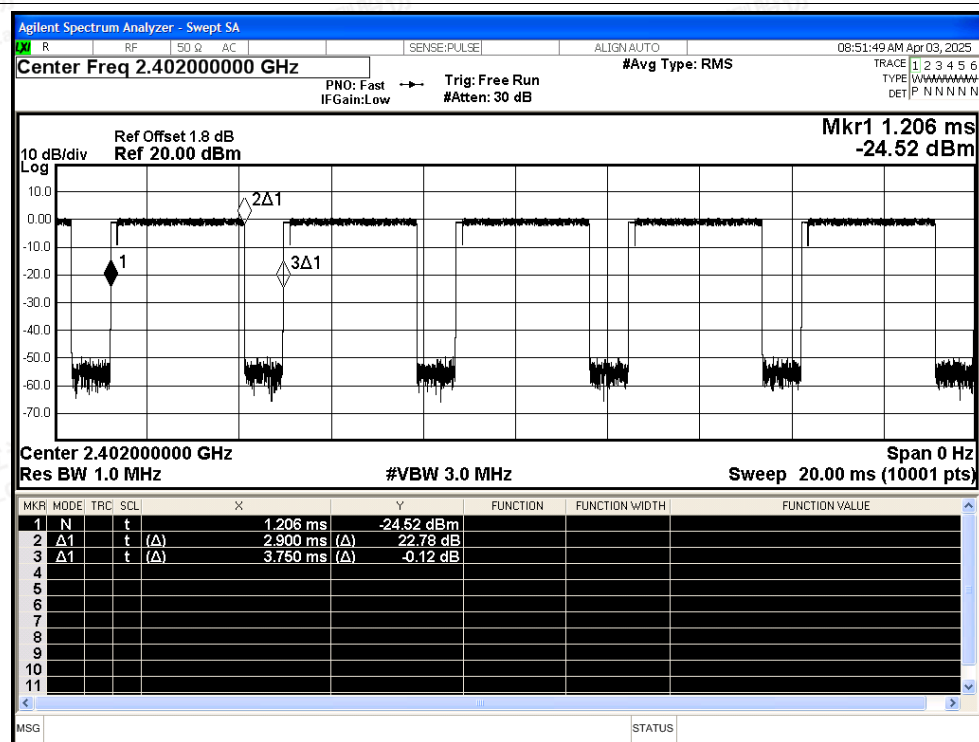




Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



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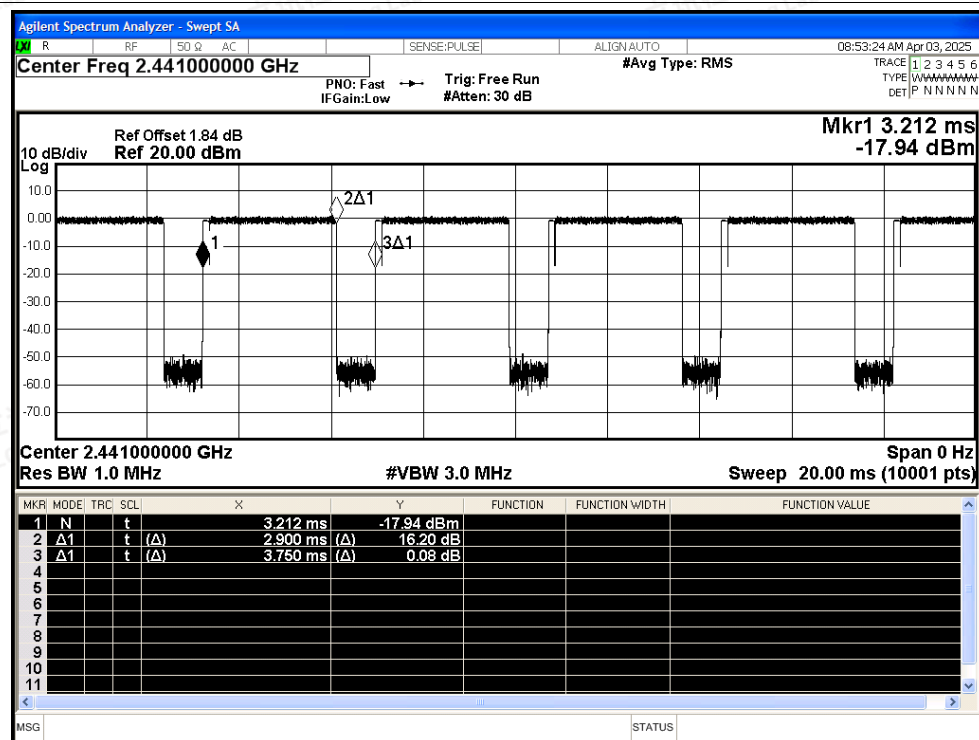
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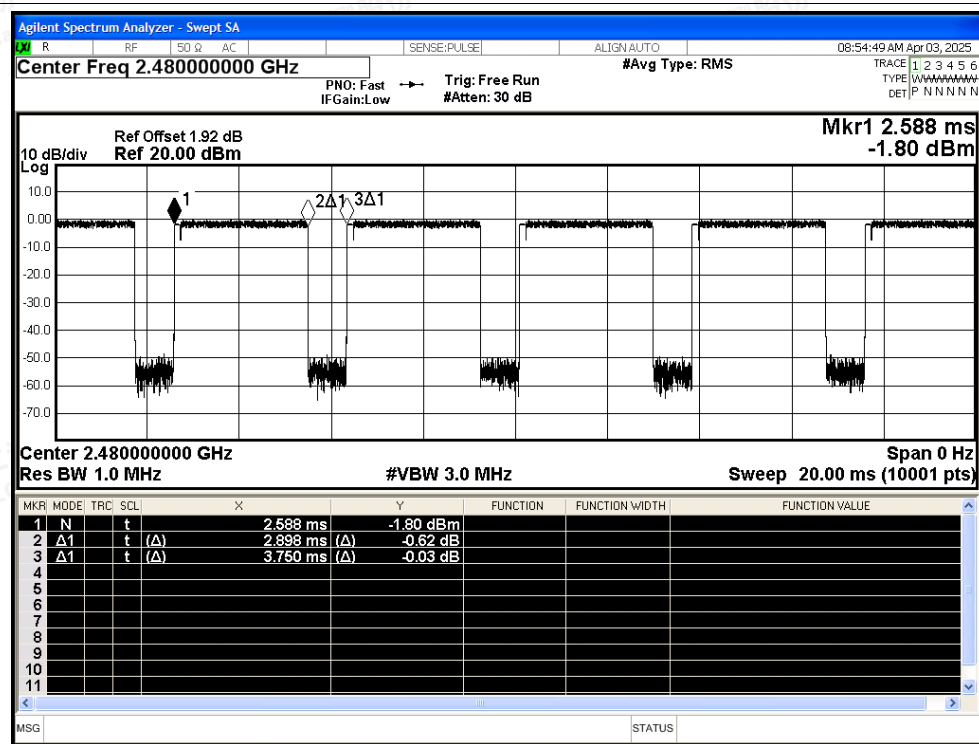
Scan code to check authenticity



Duty Cycle NVNT 2-DH5 2441MHz Ant1

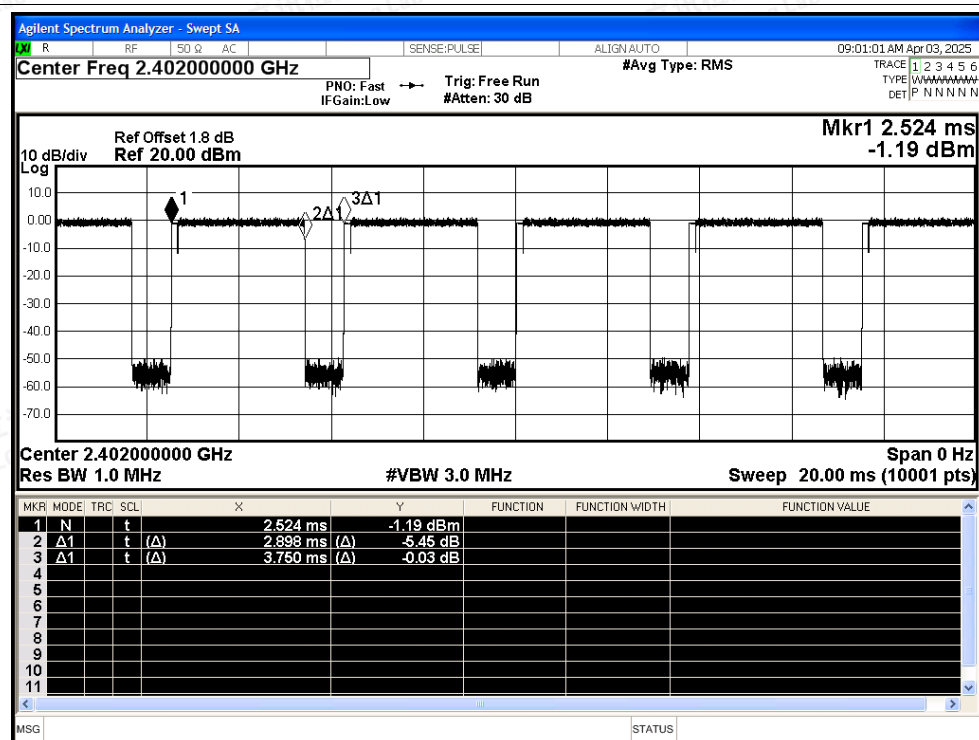


Duty Cycle NVNT 2-DH5 2480MHz Ant1

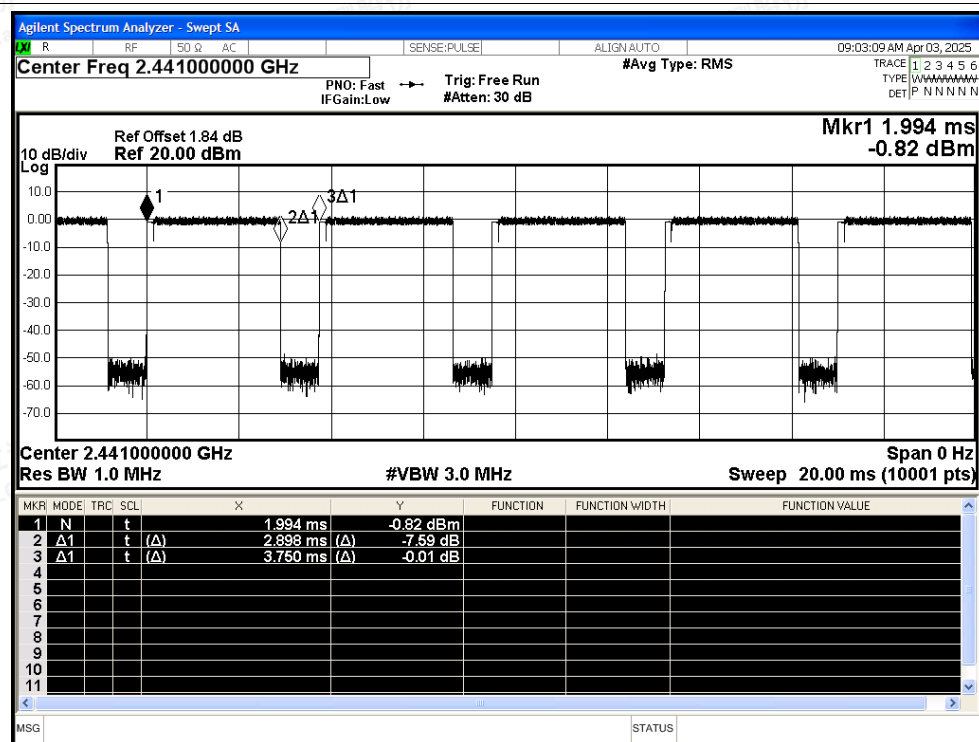




Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1



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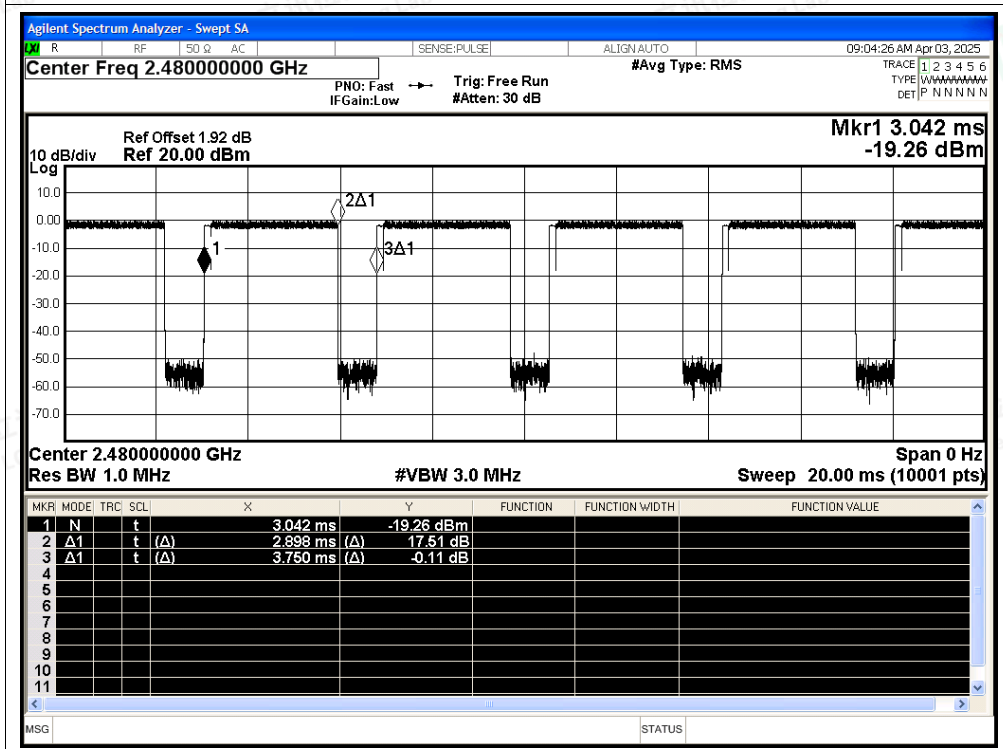
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Duty Cycle NVNT 3-DH5 2480MHz Ant1



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A.9 Restrict Band

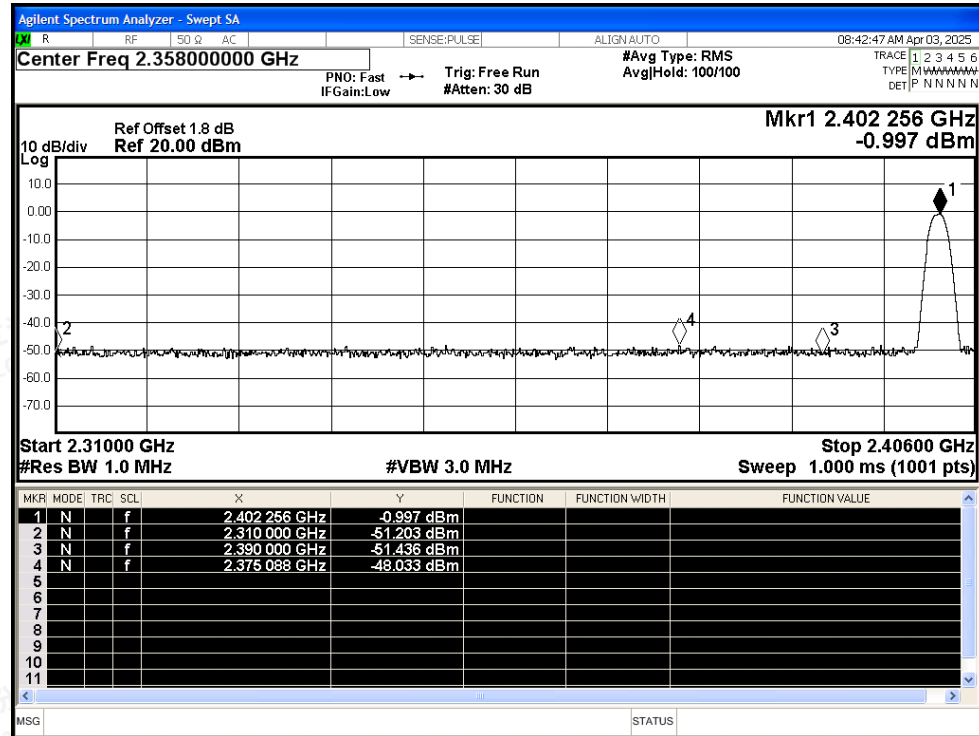
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.2	2	-	46.06	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.99	2	1.1	39.37	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2375.088	-48.03	2	-	49.23	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.8	-58	2	1.1	40.36	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.44	2	-	45.82	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.57	2	1.1	39.79	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.28	2	-	46.98	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.1	2	1.1	40.26	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2486.488	-46.38	2	-	50.88	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.984	-57.39	2	1.1	40.97	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.36	2	-	45.9	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.06	2	1.1	40.3	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.98	2	-	45.28	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59.17	2	1.12	39.21	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2373.36	-48.37	2	-	48.89	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2350.128	-57.98	2	1.12	40.4	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.93	2	-	47.33	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.76	2	1.12	39.62	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.13	2	-	49.13	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.47	2	1.12	40.91	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.072	-45.14	2	-	52.12	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2487.424	-57.4	2	1.12	40.98	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.58	2	-	48.68	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.67	2	1.12	40.71	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.26	2	-	47	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-59.79	2	1.12	38.59	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2323.056	-46.83	2	-	50.43	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.104	-57.96	2	1.12	40.42	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.58	2	-	45.68	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.42	2	1.12	39.96	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.13	2	-	48.13	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.93	2	1.12	40.45	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.848	-47.35	2	-	49.91	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.704	-57.13	2	1.12	41.25	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.28	2	-	46.98	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.51	2	1.12	39.87	Average	54	Pass



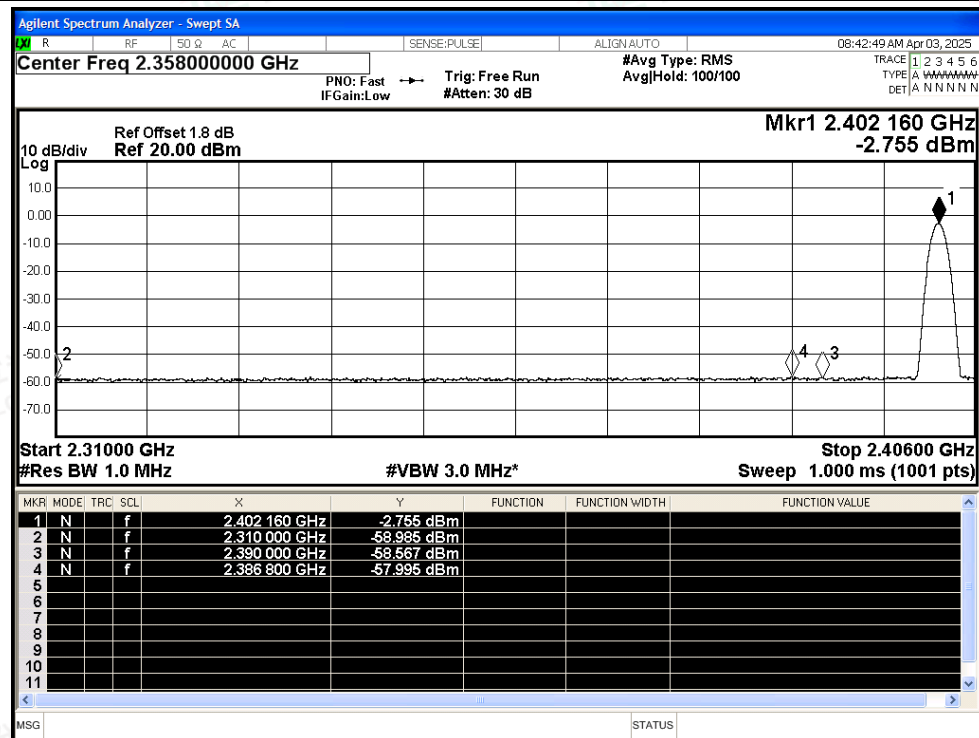


Test Graphs

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

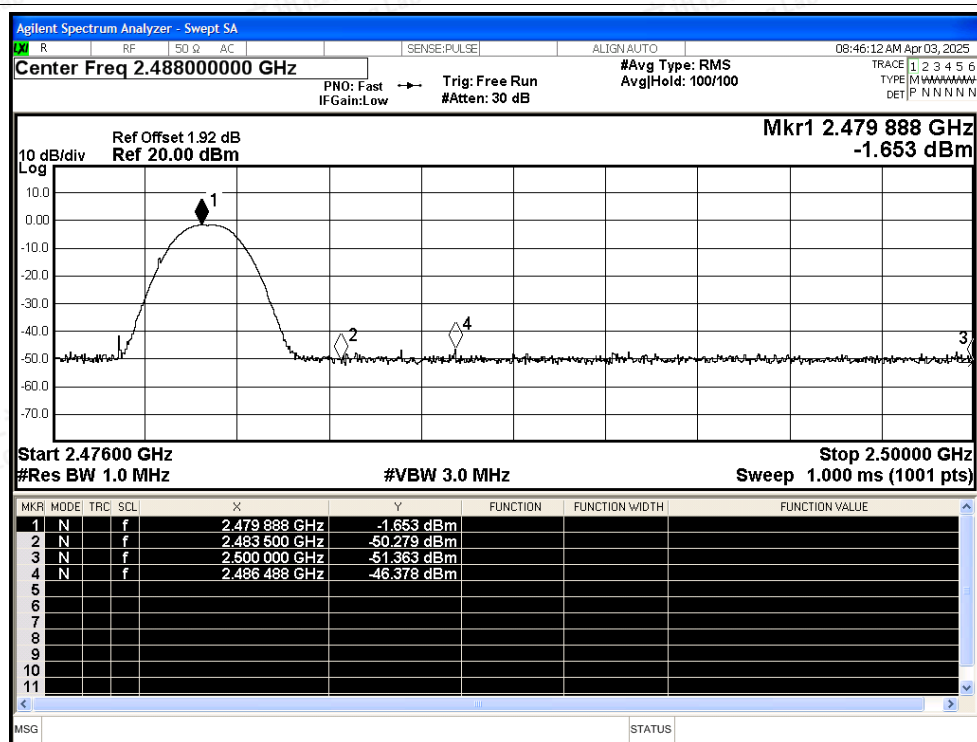


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

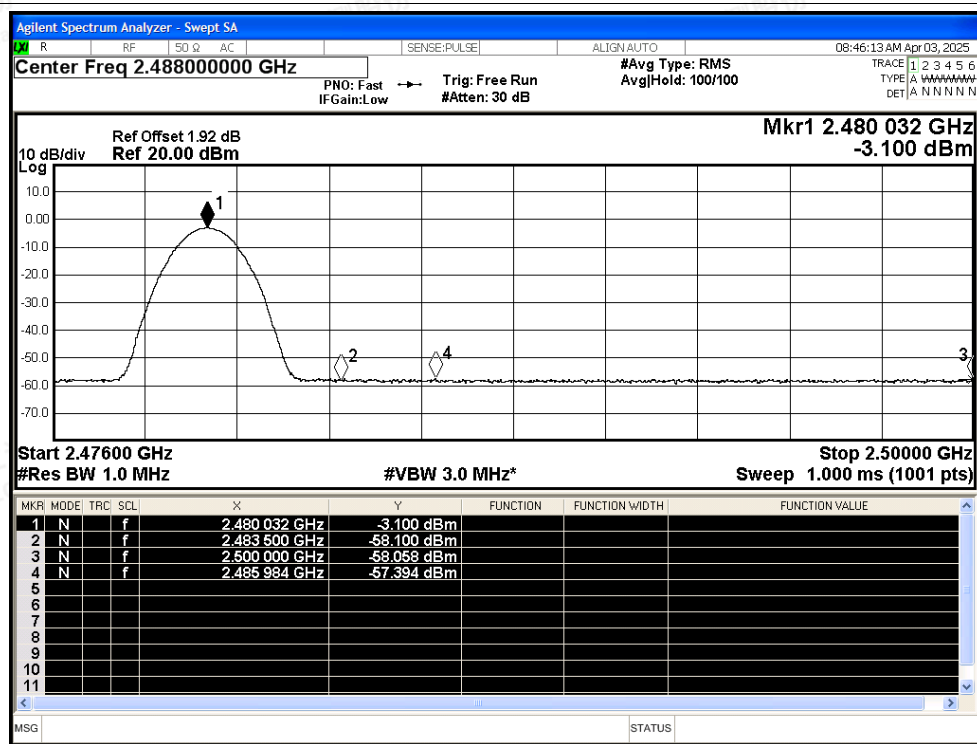




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



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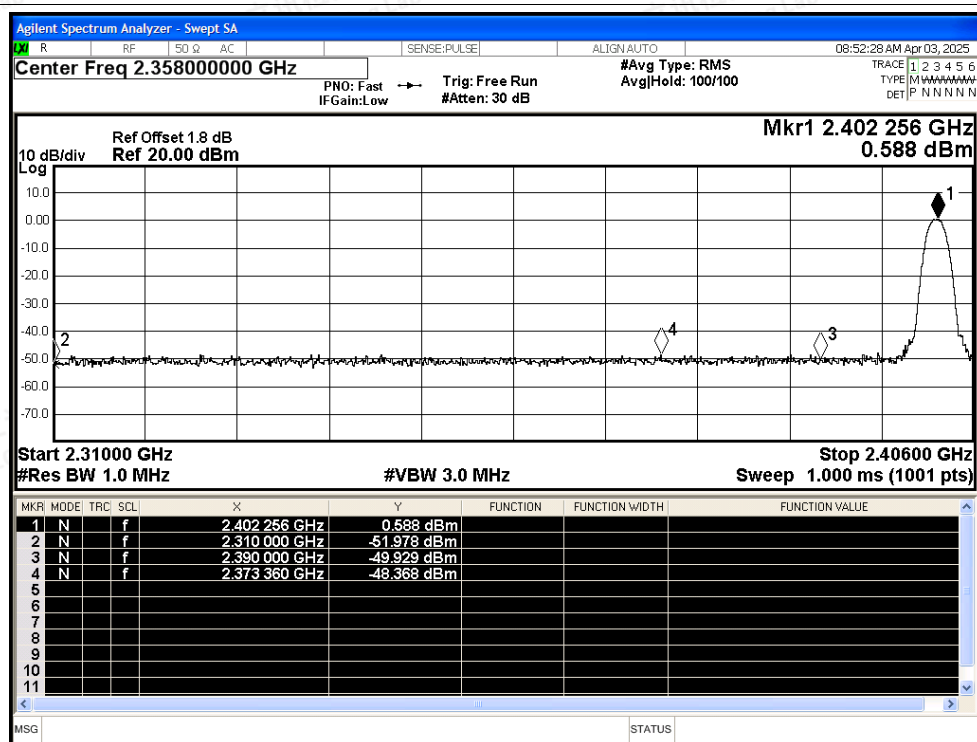
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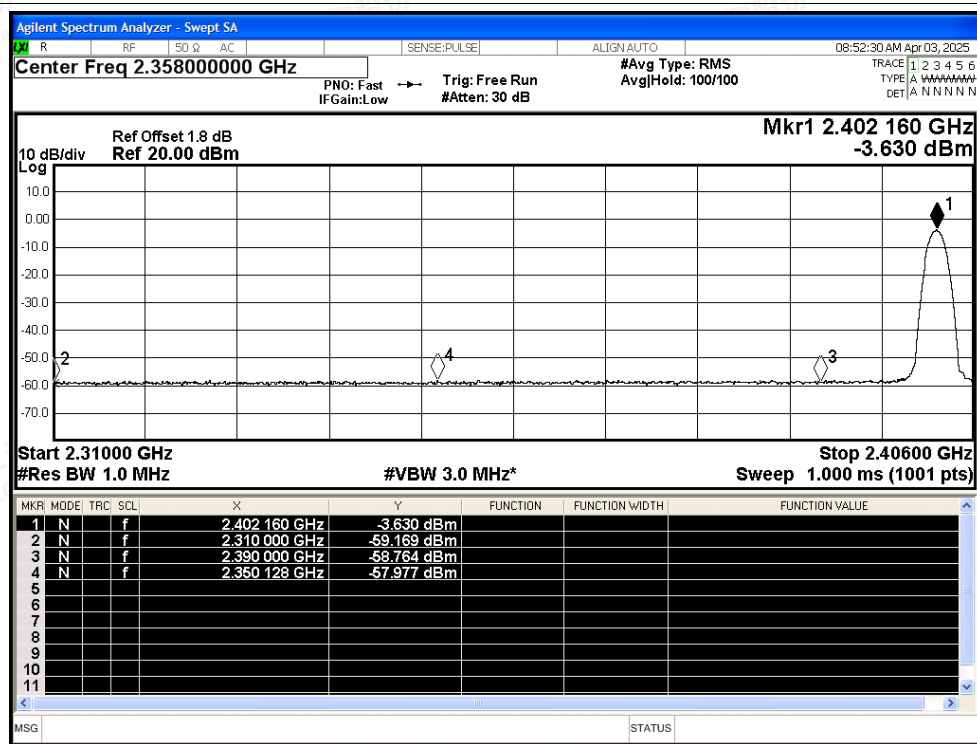
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

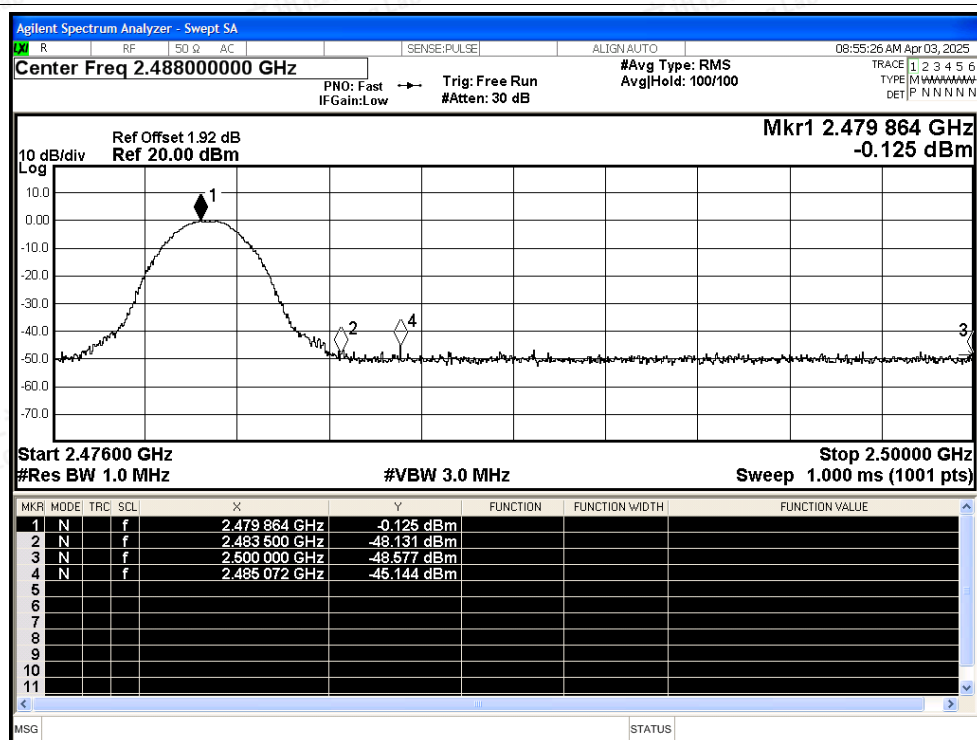
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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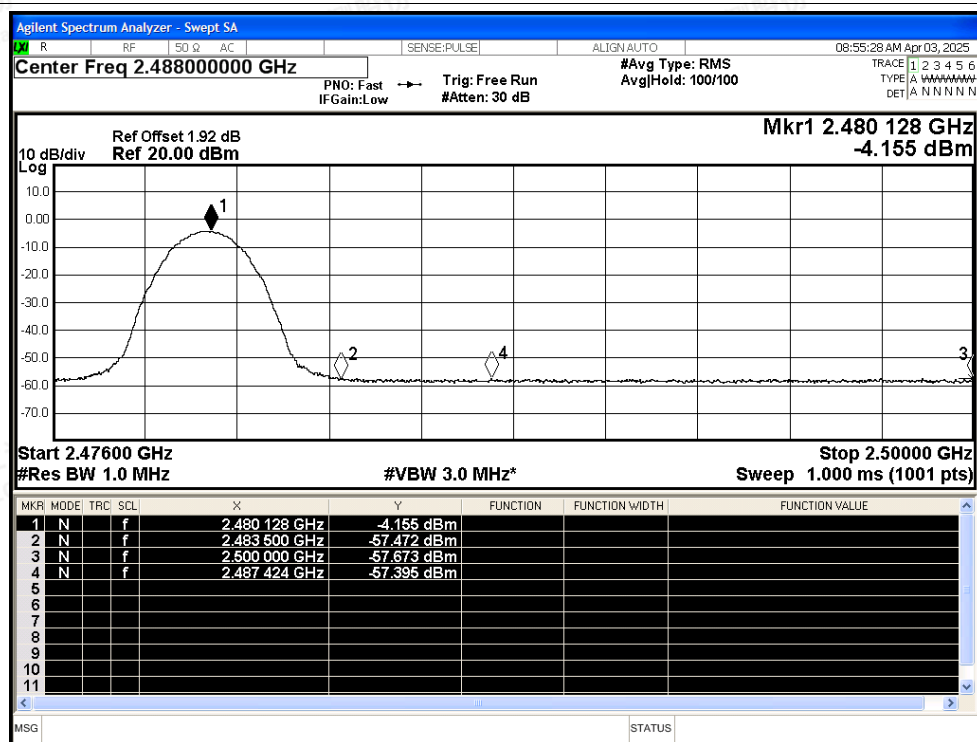
Scan code to check authenticity



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



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



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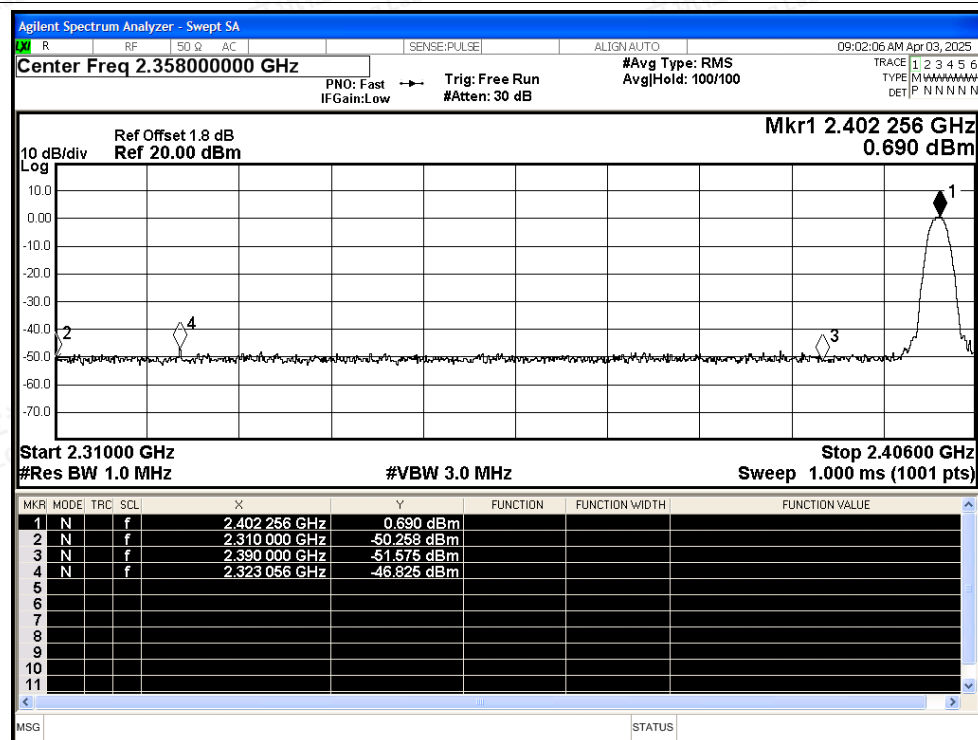
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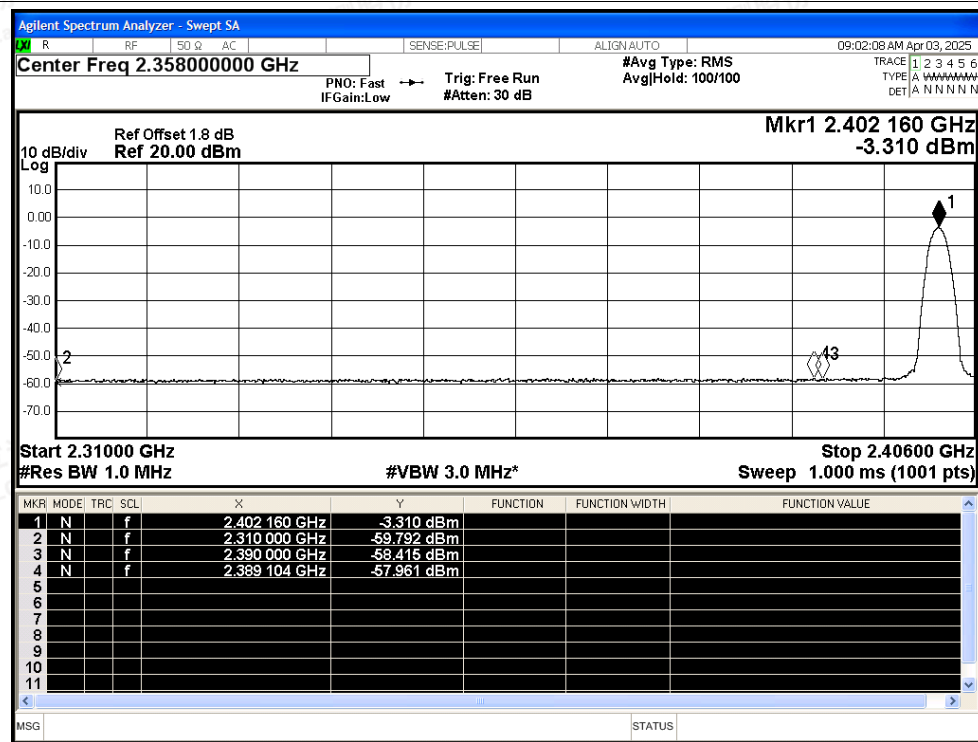
Scan code to check authenticity



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

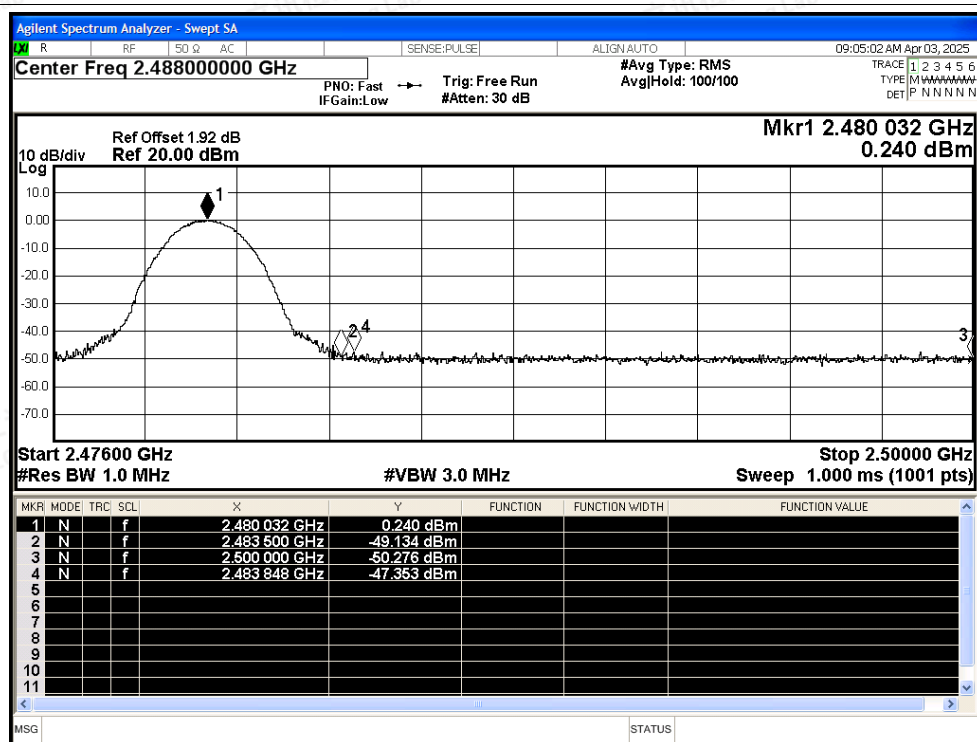


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average

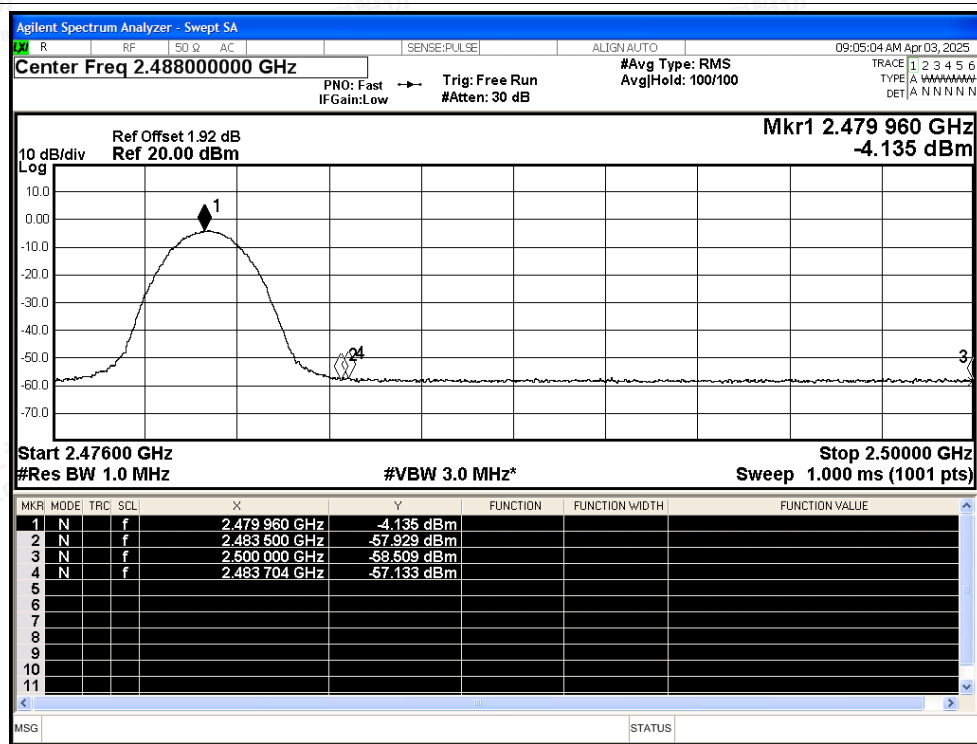




Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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