



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Set top box

Test Model: Real Vision 4K Plus

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu





A.1 -20dB Bandwidth

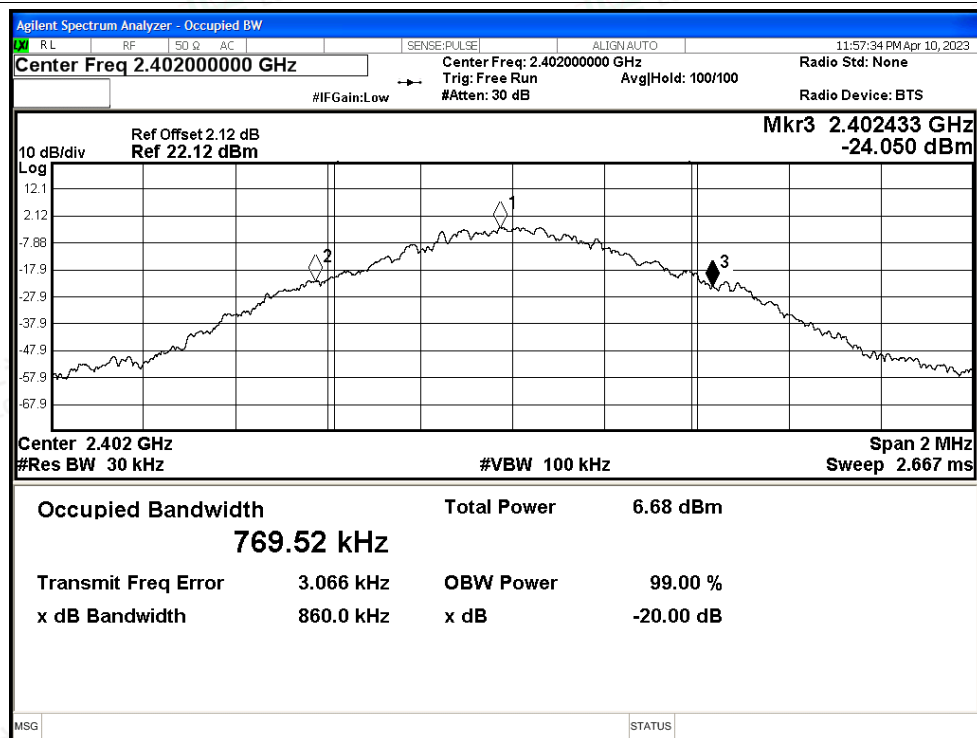
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.86	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.847	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.862	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.307	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.28	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.286	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.305	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.276	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.245	N/A	Pass



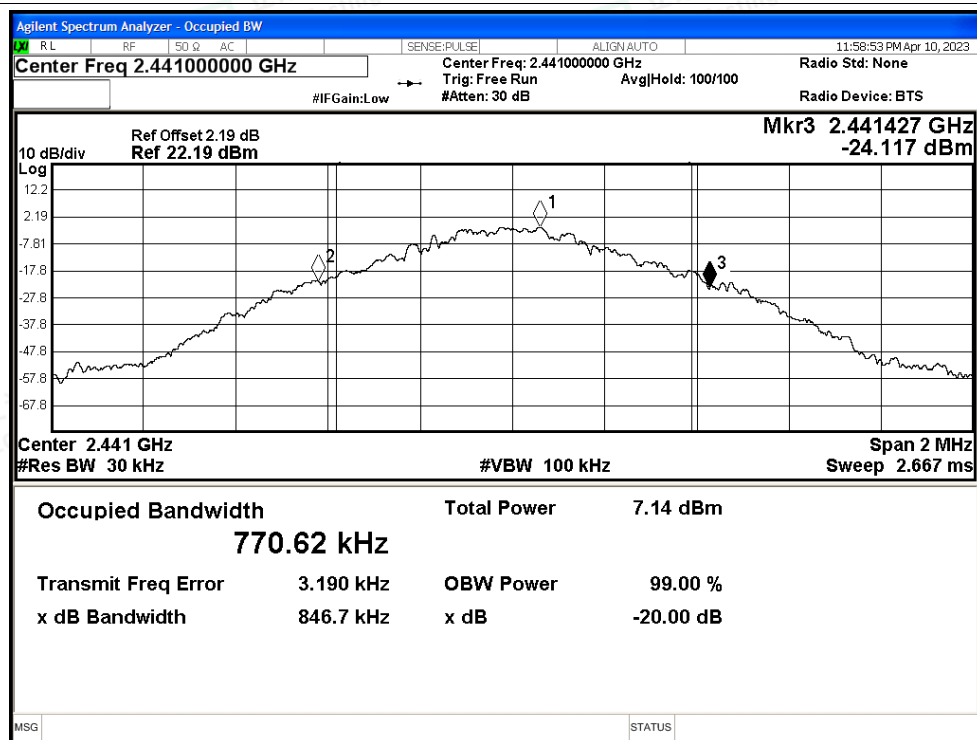


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

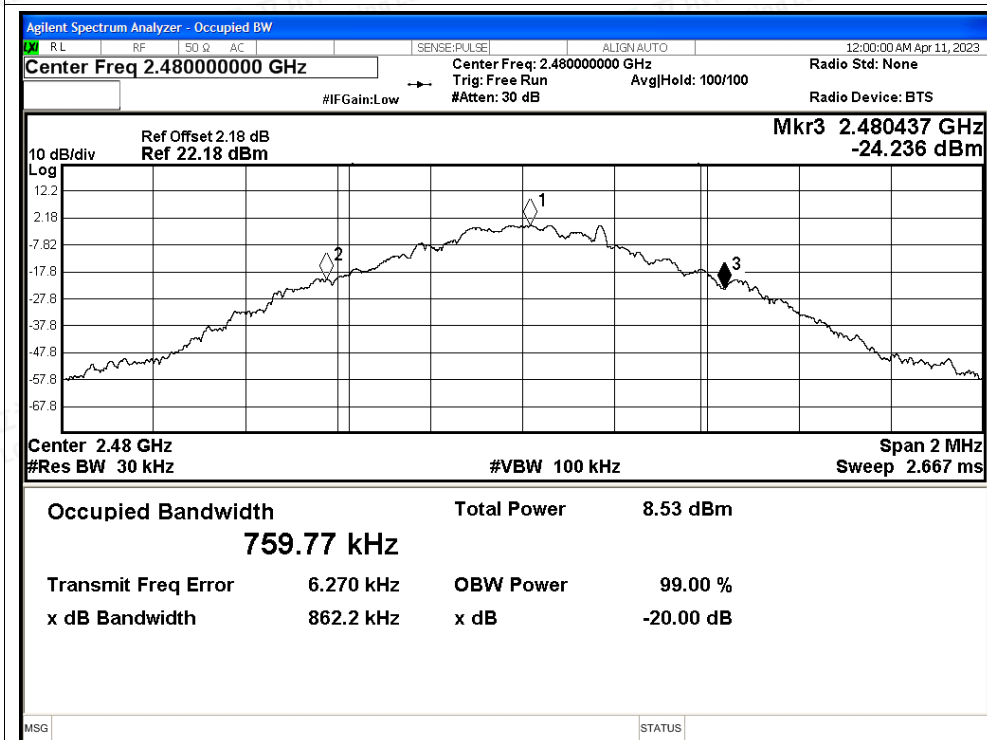


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

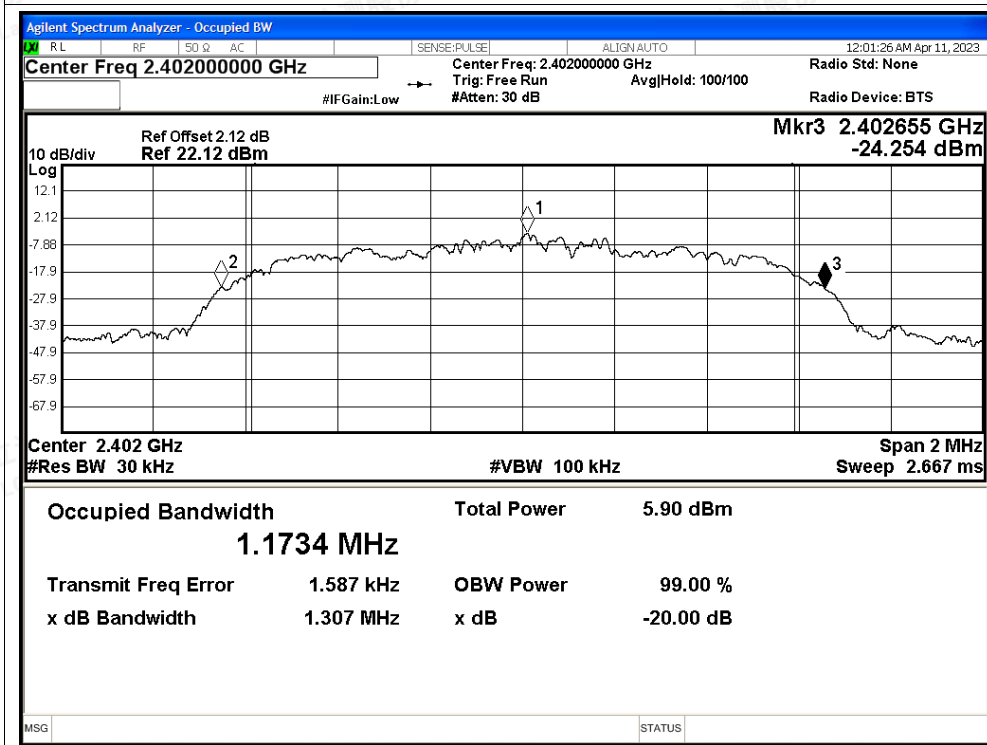




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

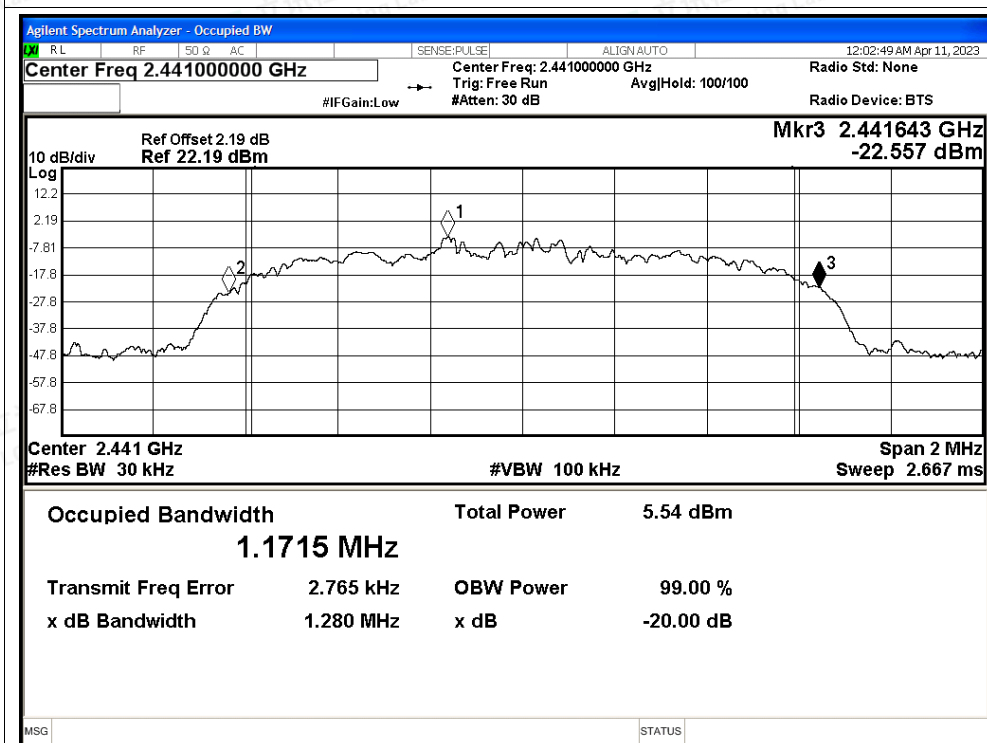


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

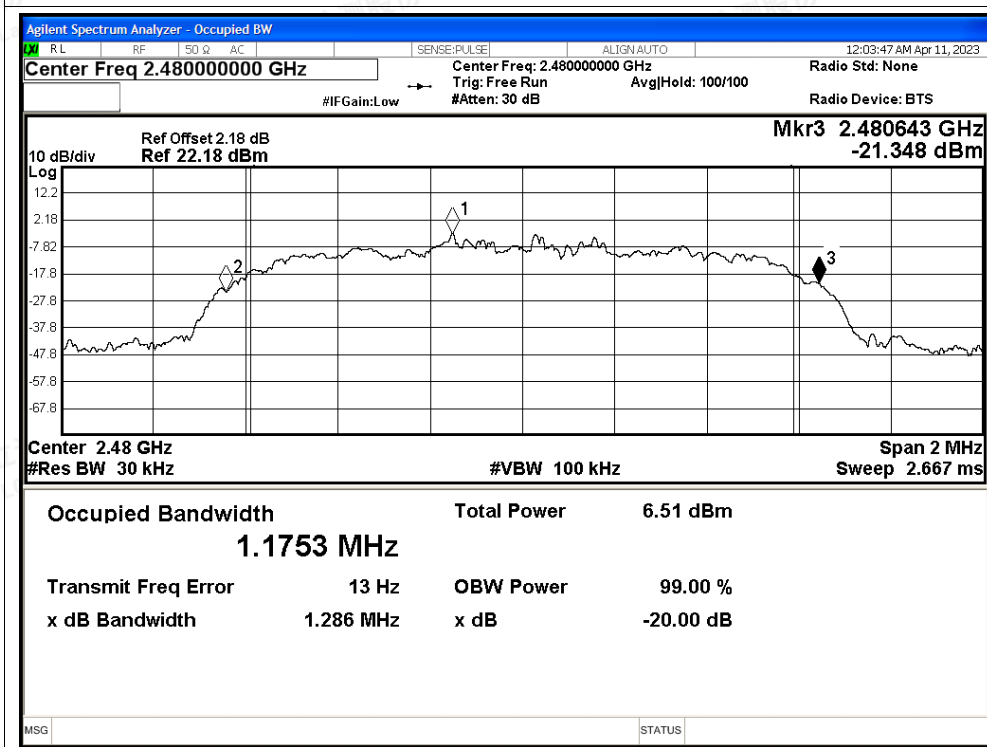




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

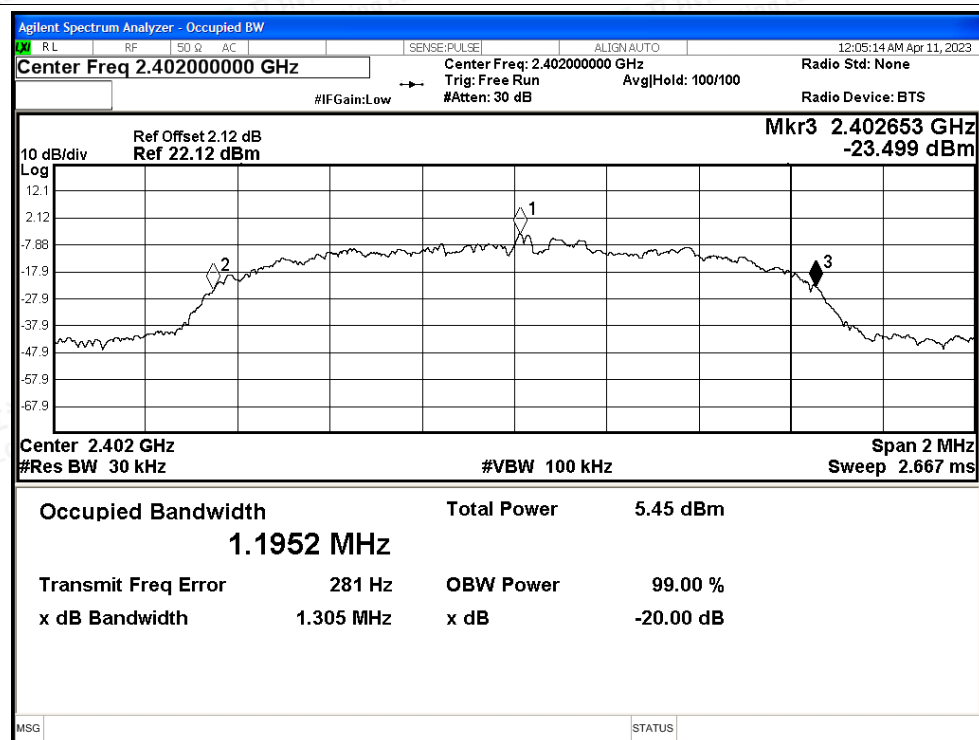


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

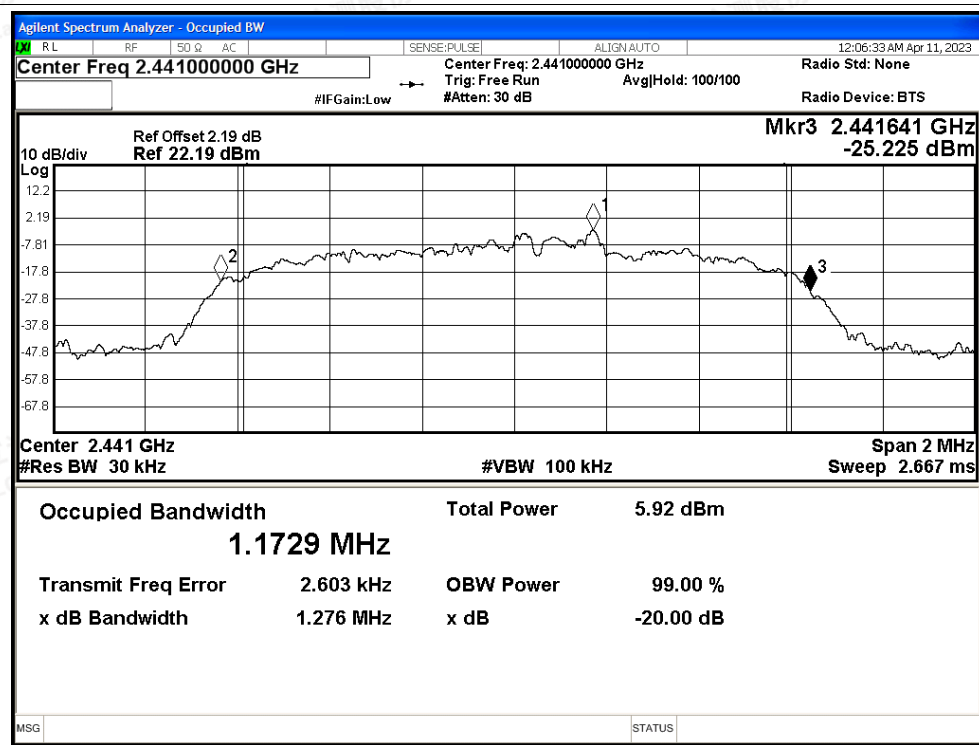


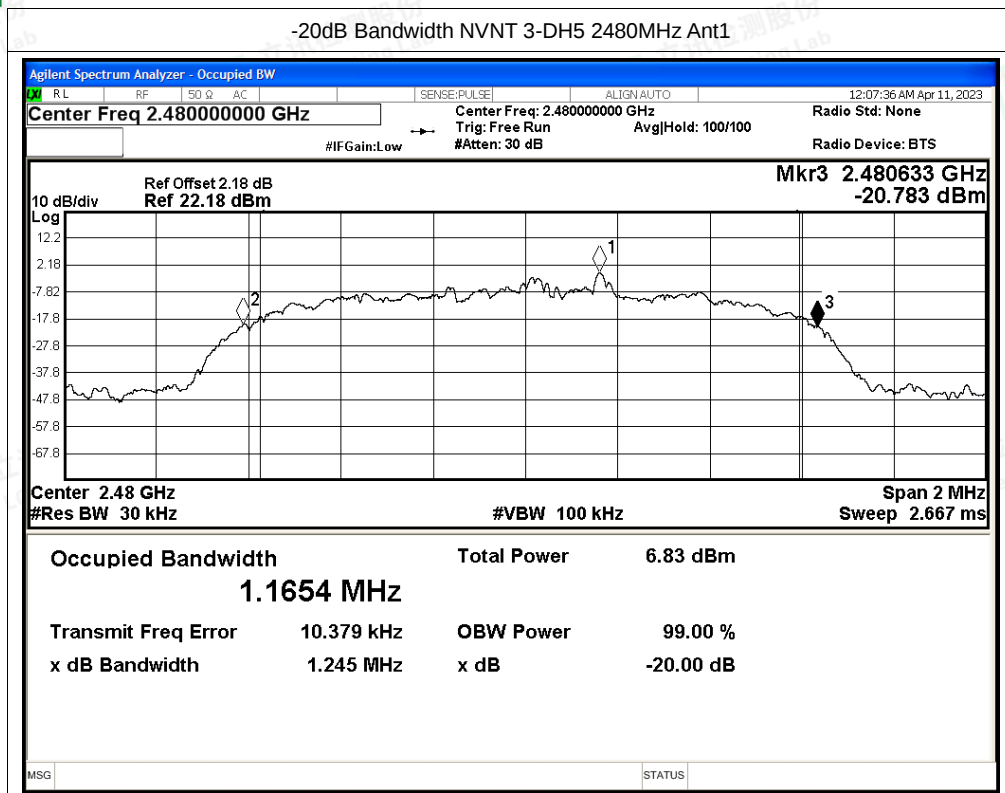


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Conducted Output Power

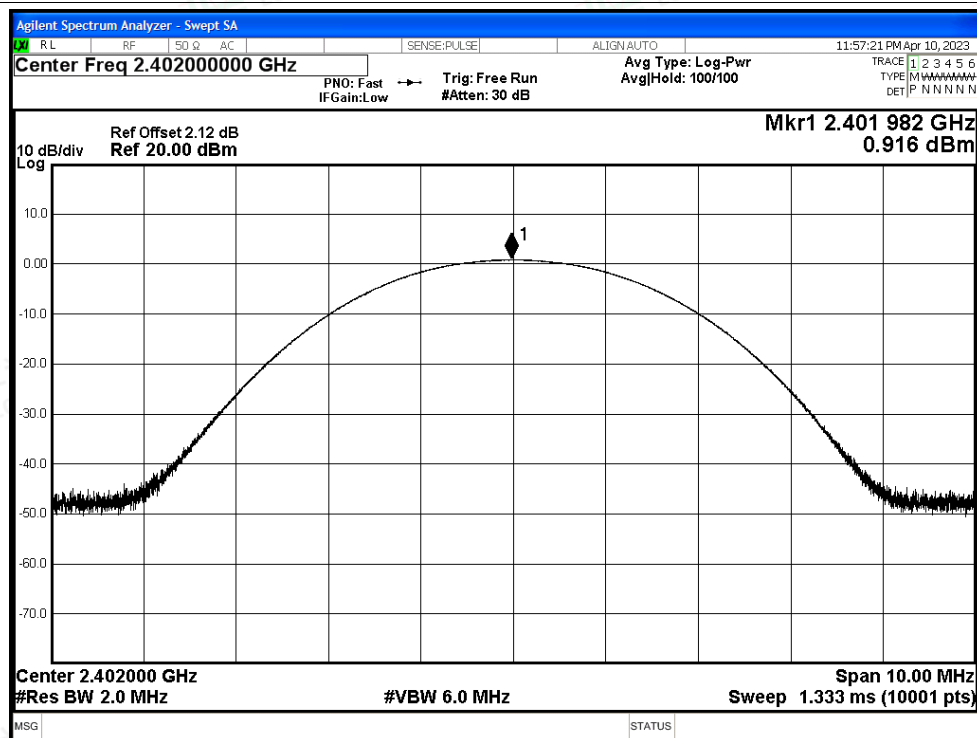
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.92	21	Pass
NVNT	1-DH5	2441	Ant1	1.47	21	Pass
NVNT	1-DH5	2480	Ant1	2.45	21	Pass
NVNT	2-DH5	2402	Ant1	0.99	21	Pass
NVNT	2-DH5	2441	Ant1	0.88	21	Pass
NVNT	2-DH5	2480	Ant1	2.00	21	Pass
NVNT	3-DH5	2402	Ant1	0.95	21	Pass
NVNT	3-DH5	2441	Ant1	0.83	21	Pass
NVNT	3-DH5	2480	Ant1	1.92	21	Pass



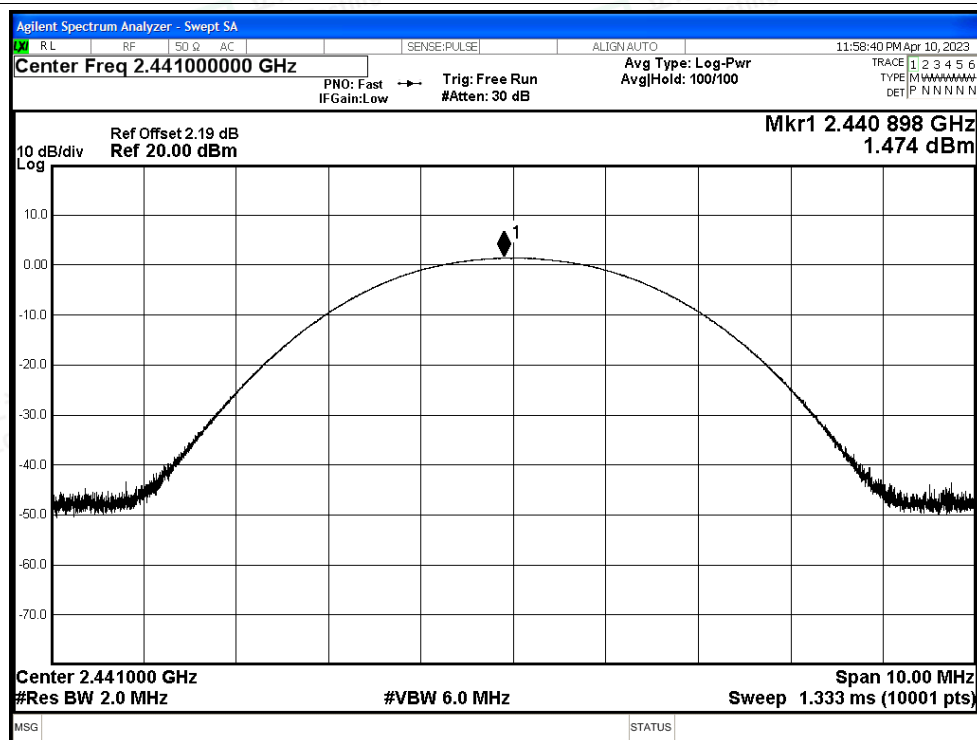


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

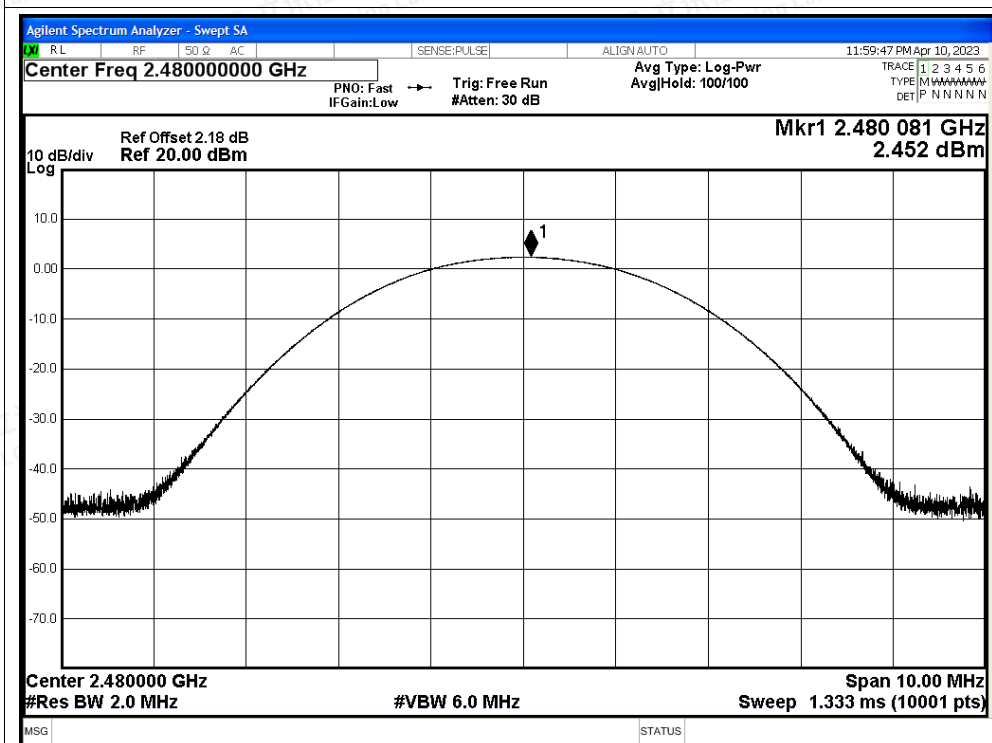


Power NVNT 1-DH5 2441MHz Ant1

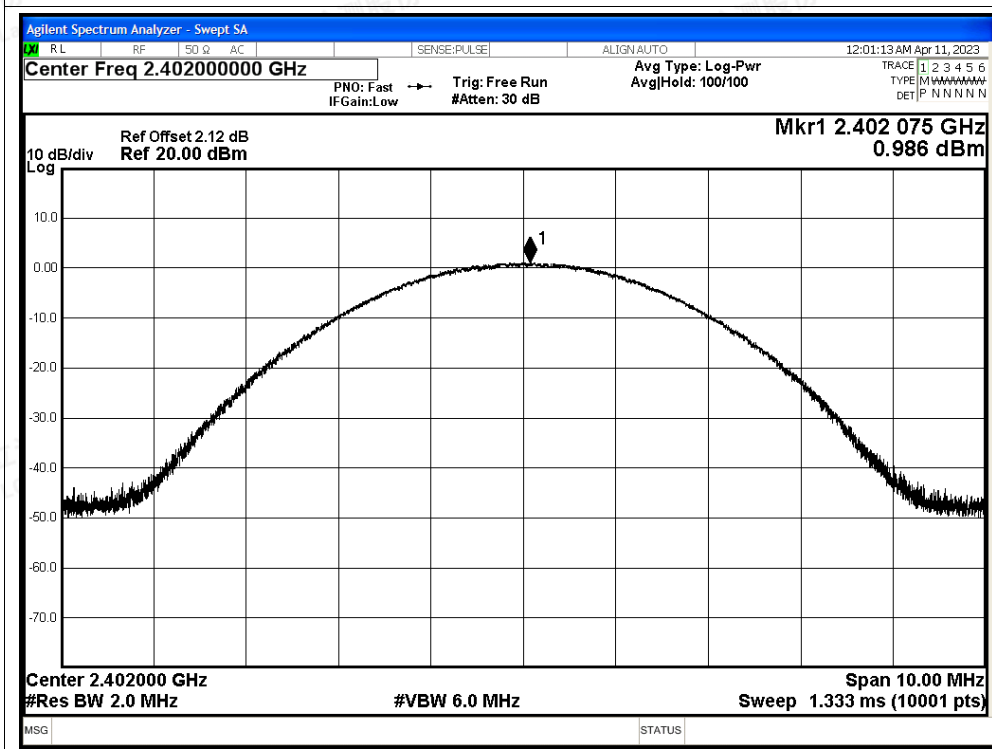




Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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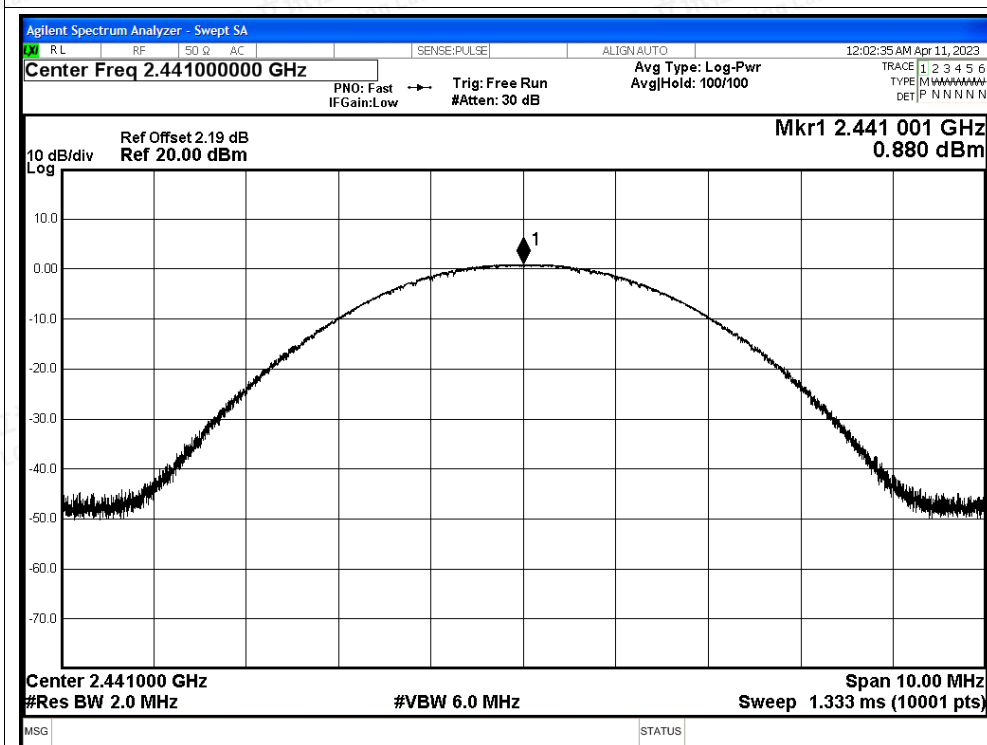
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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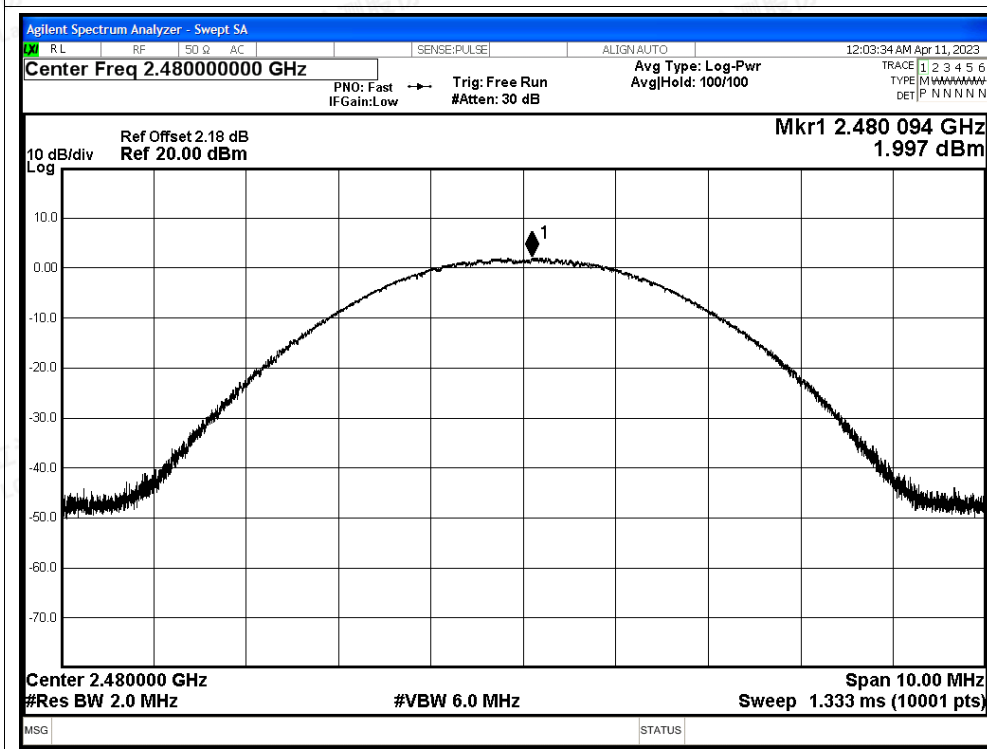
Scan code to check authenticity



Power NVNT 2-DH5 2441MHz Ant1

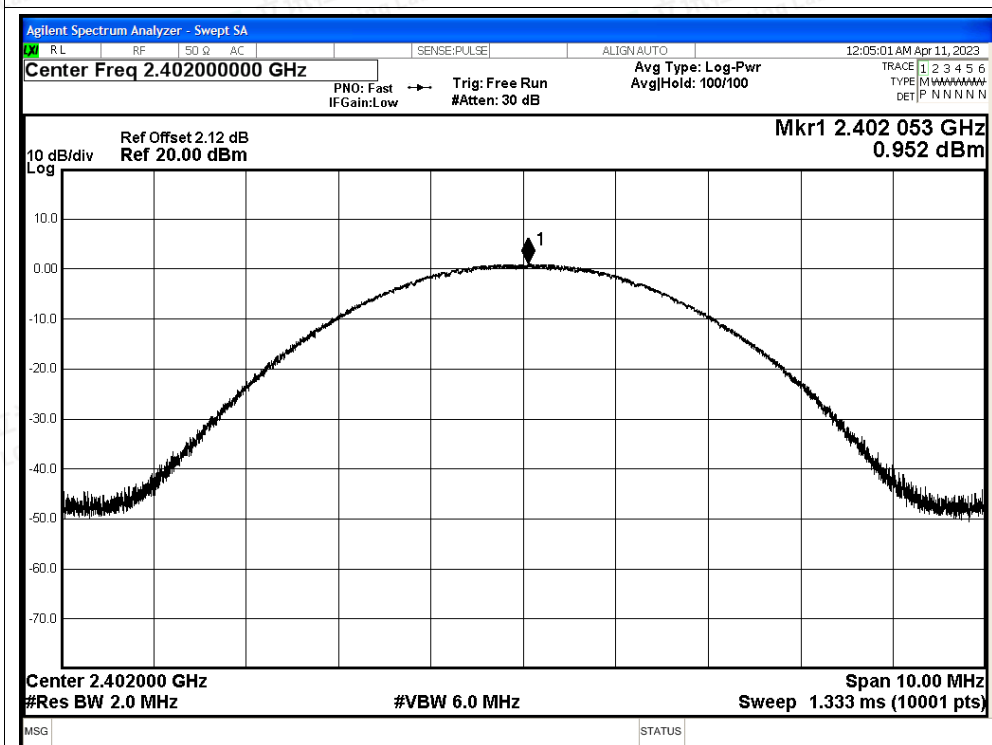


Power NVNT 2-DH5 2480MHz Ant1

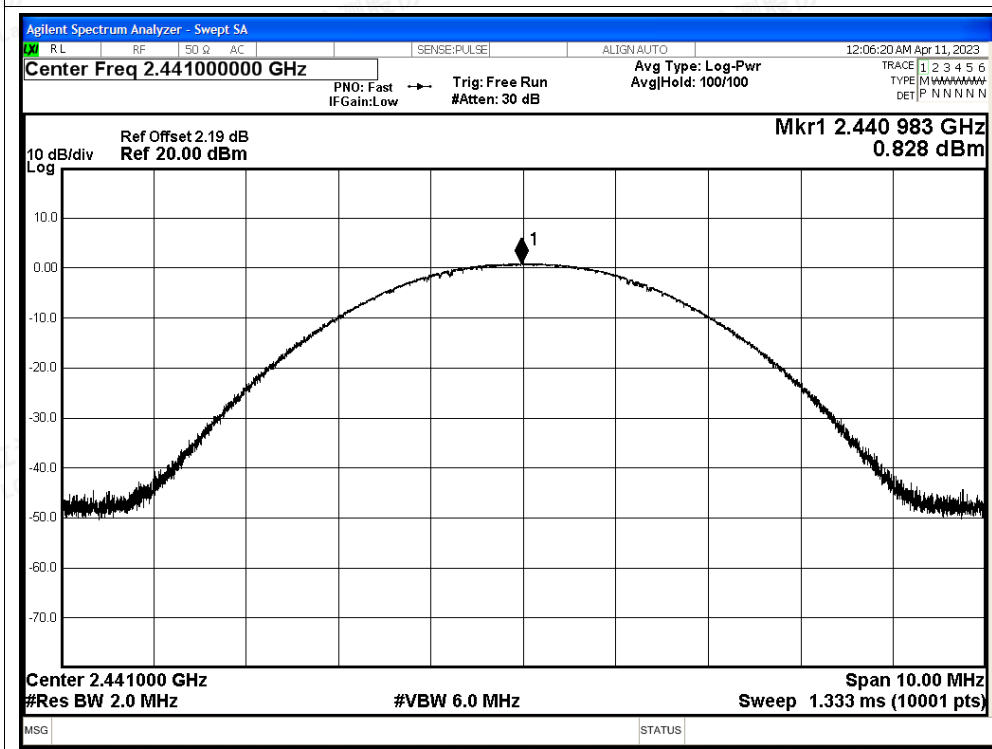


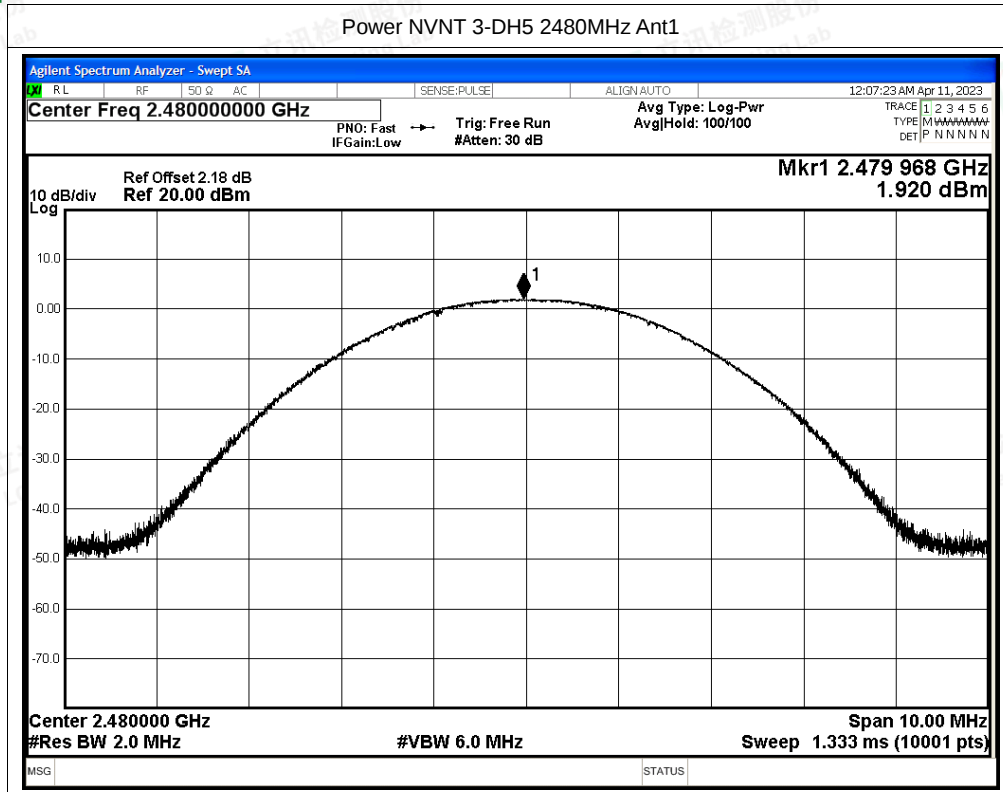


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.974	2403.018	1.044	0.573	Pass
NVNT	2-DH5	Ant1	2402.024	2403.168	1.144	0.871	Pass
NVNT	3-DH5	Ant1	2401.846	2403.162	1.316	0.87	Pass

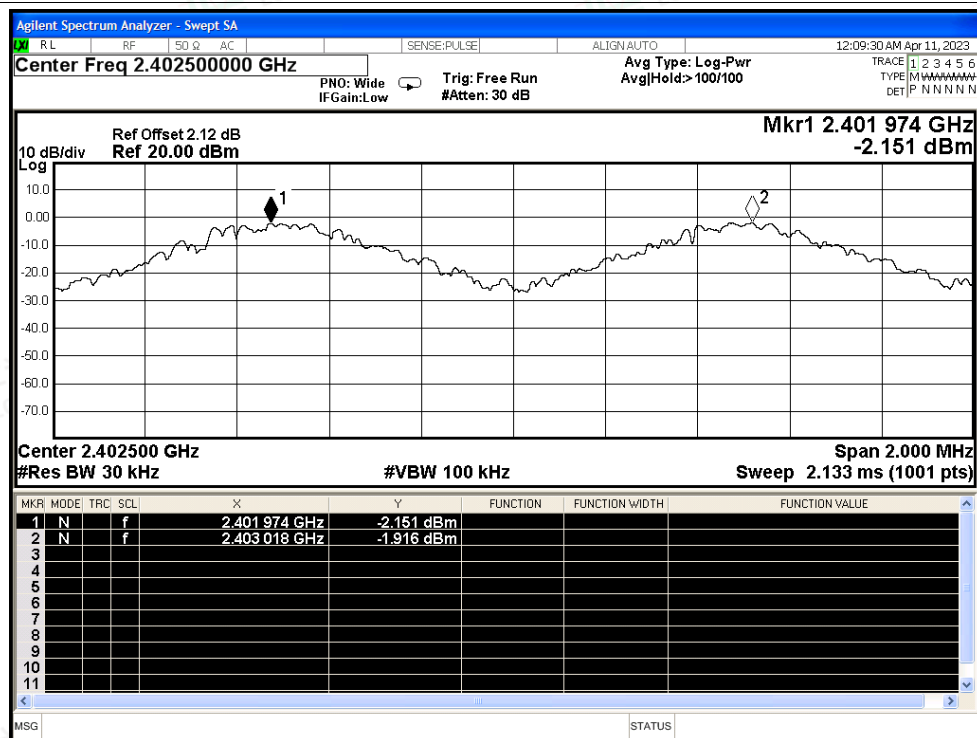


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518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

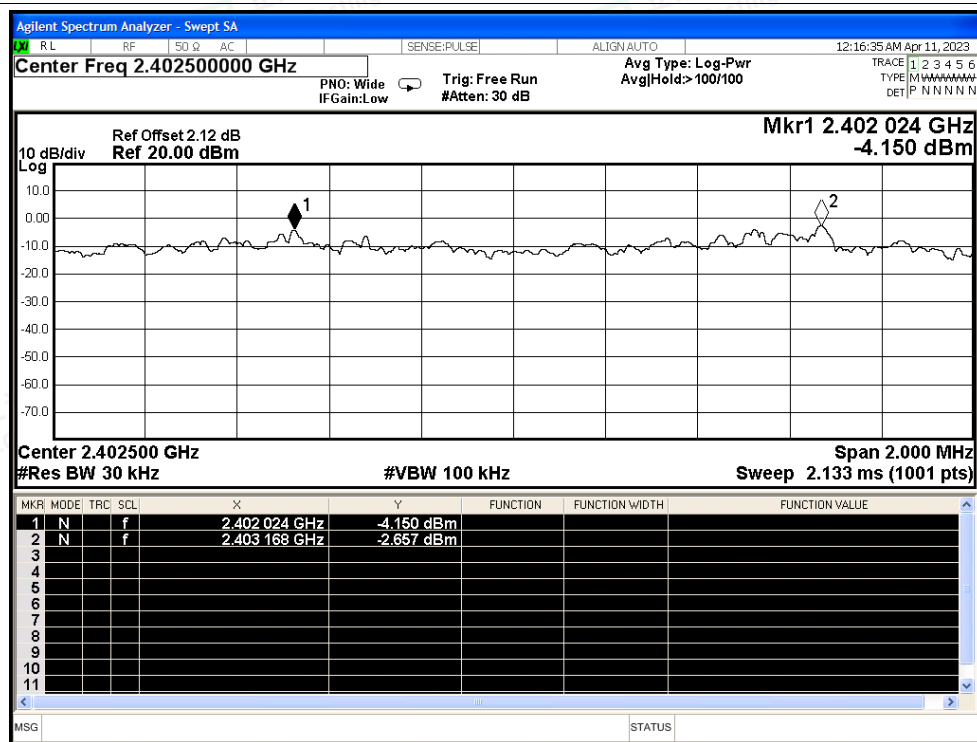


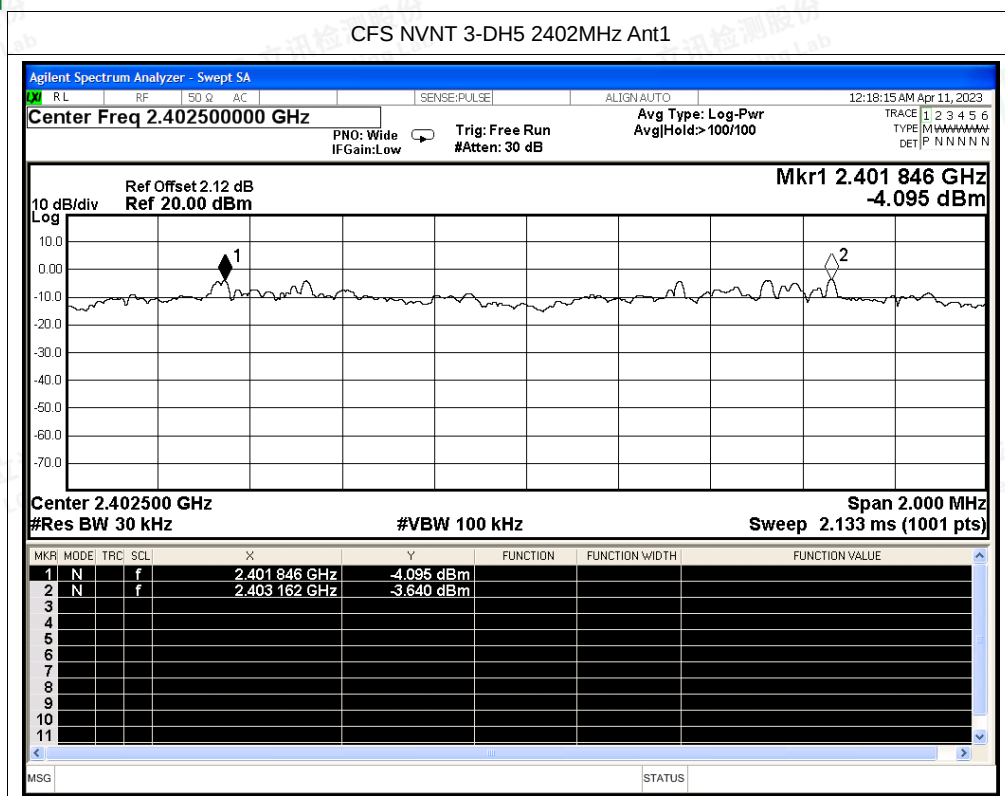
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







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	2.882	276.672	96	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	302.925	105	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	291.587	101	31600	400	Pass

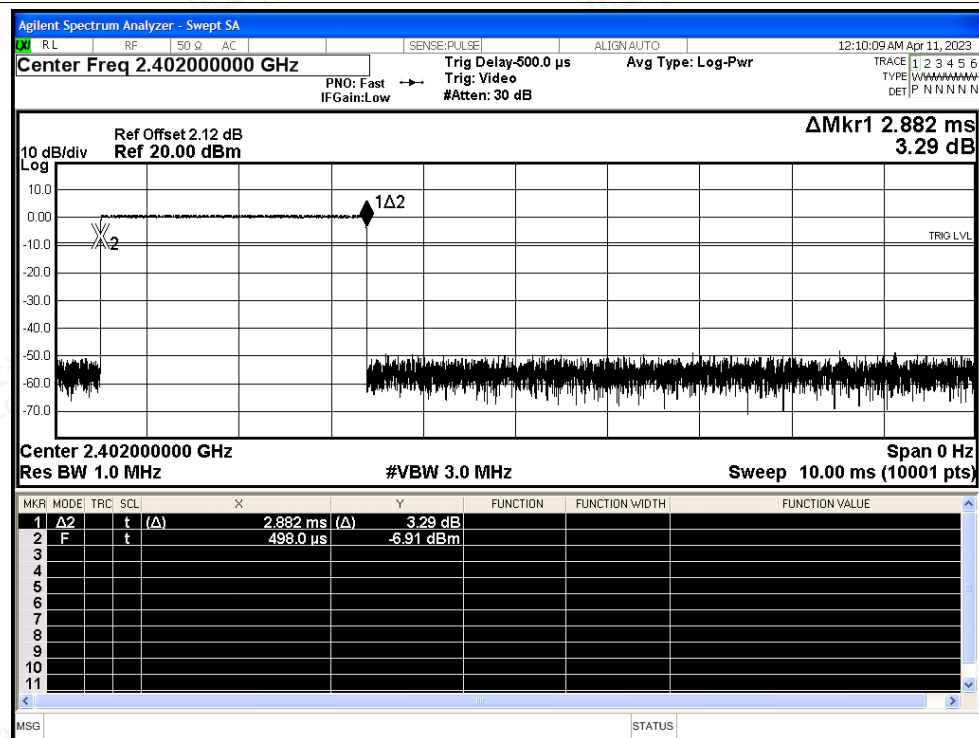


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Scan code to check authenticity

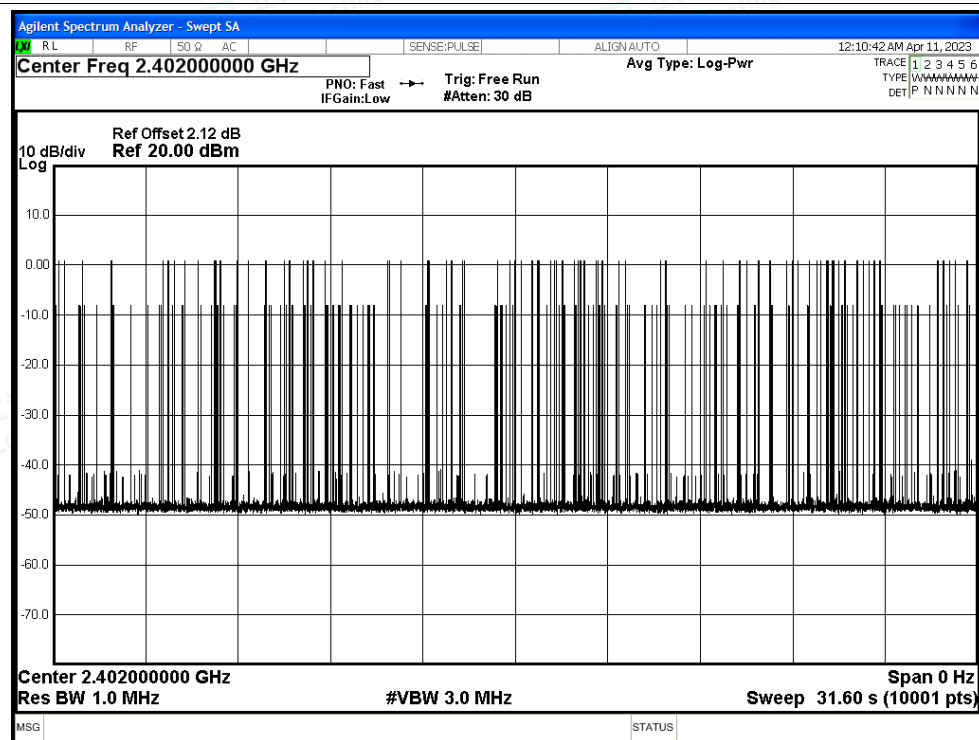


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

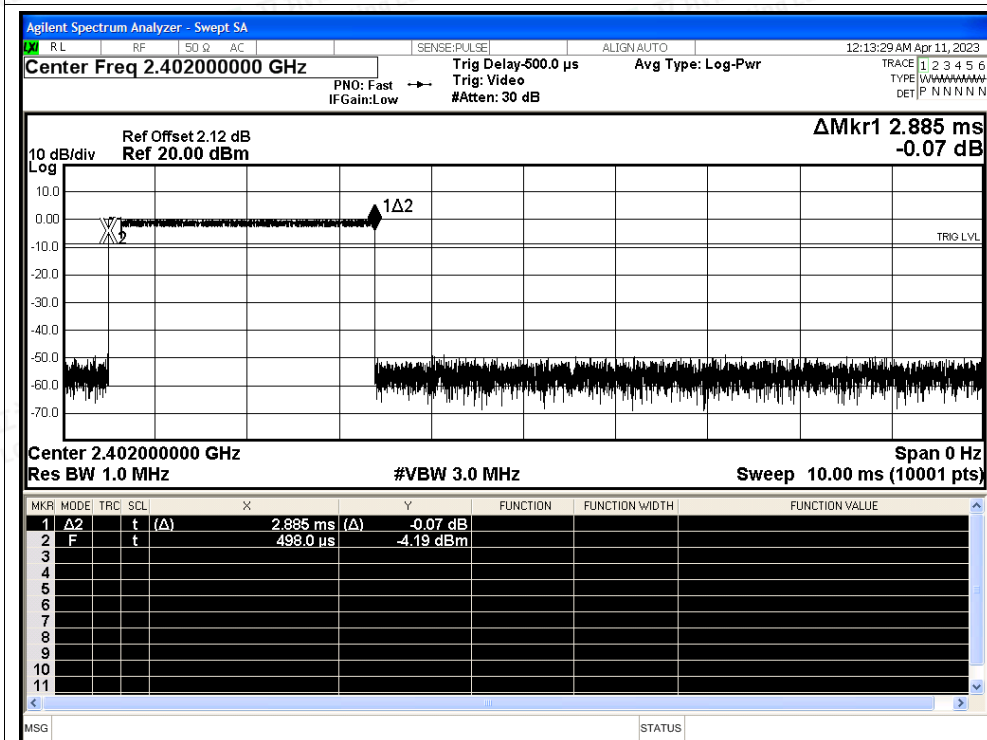


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

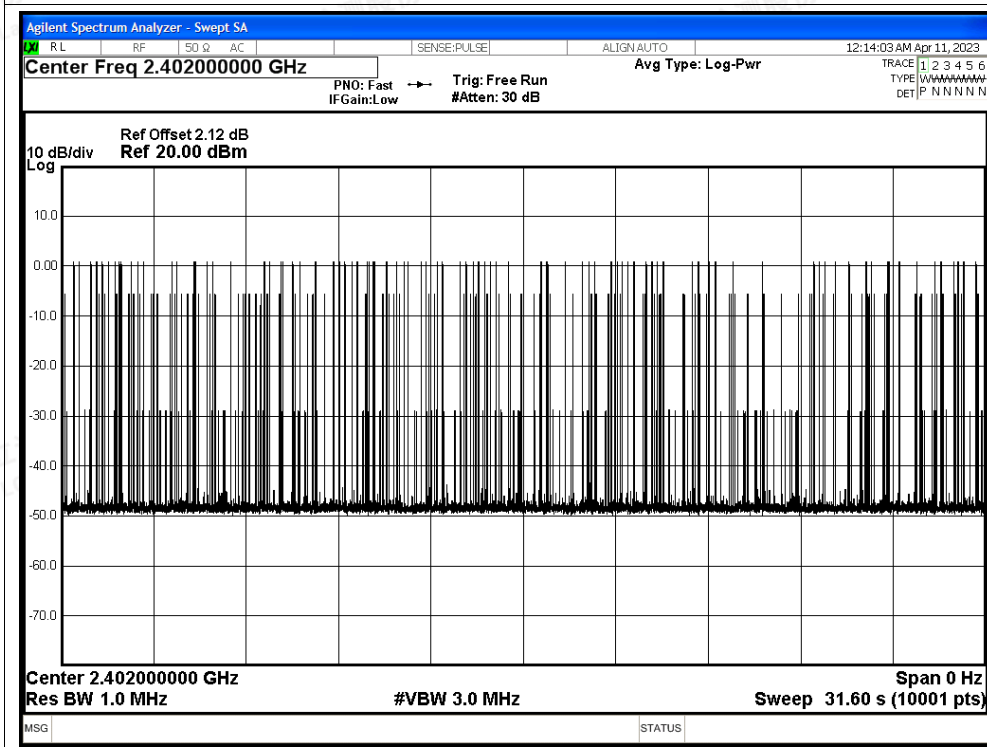




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

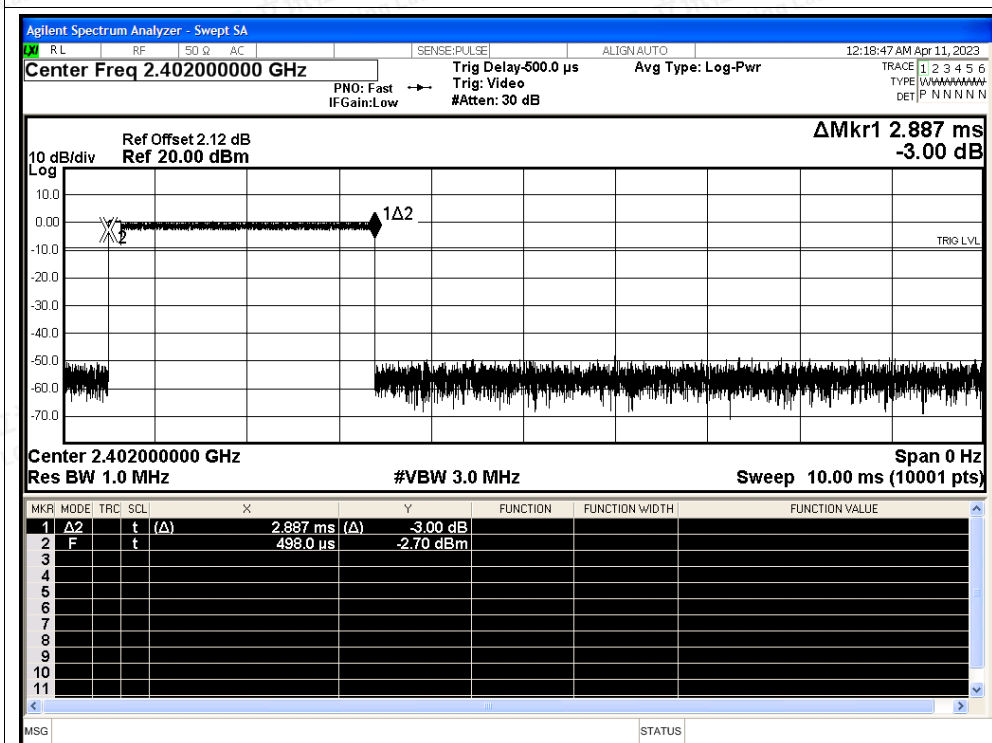


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

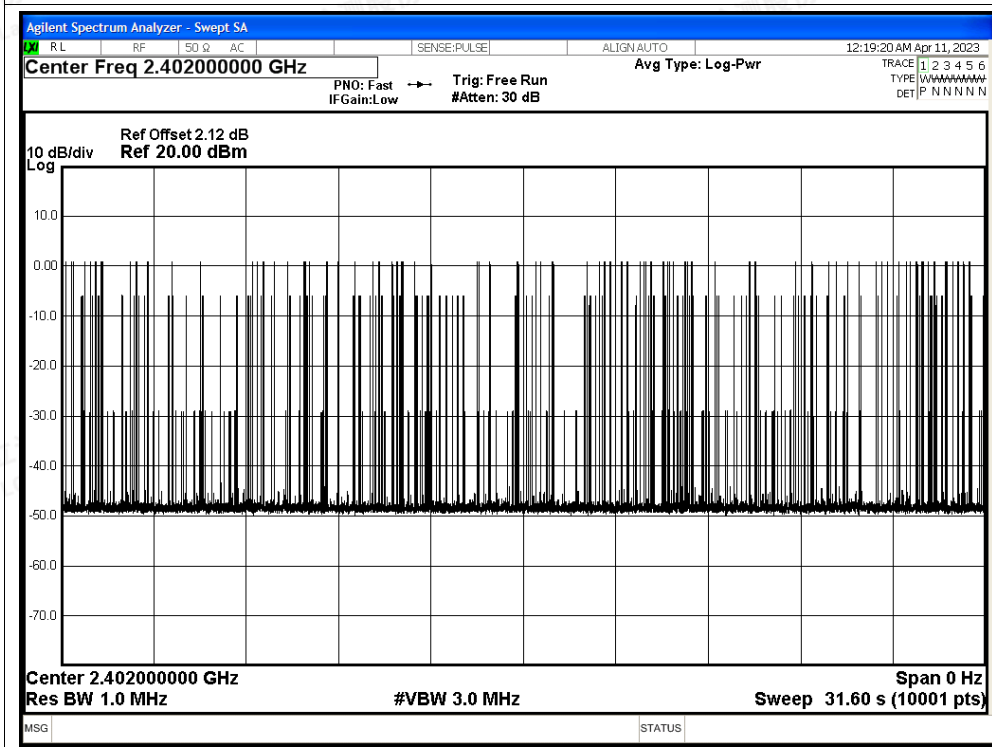




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

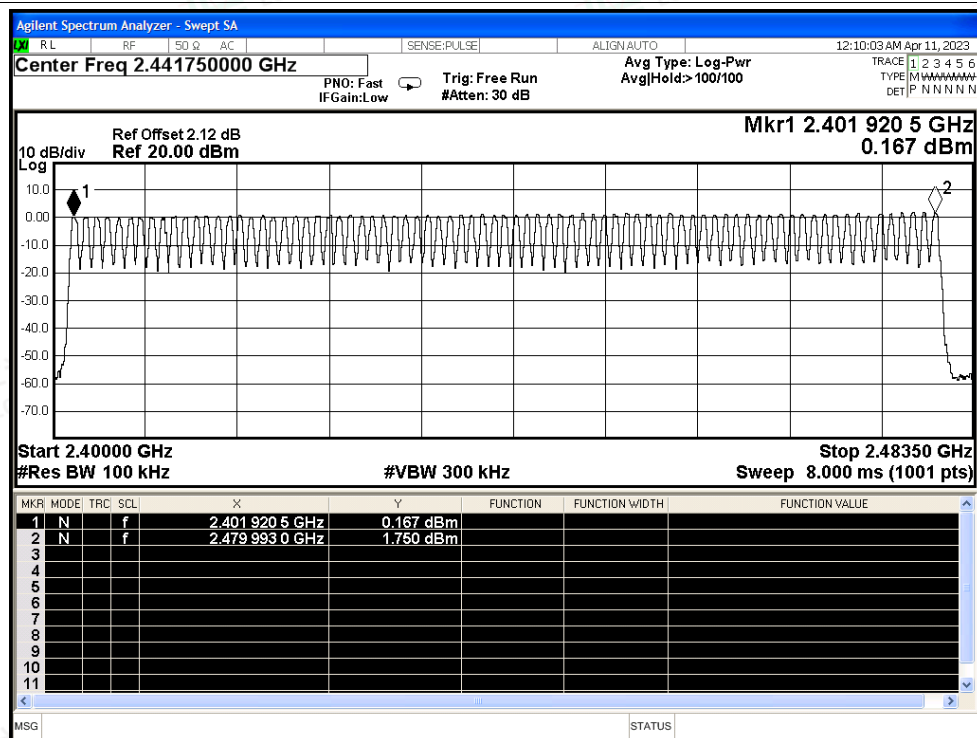
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



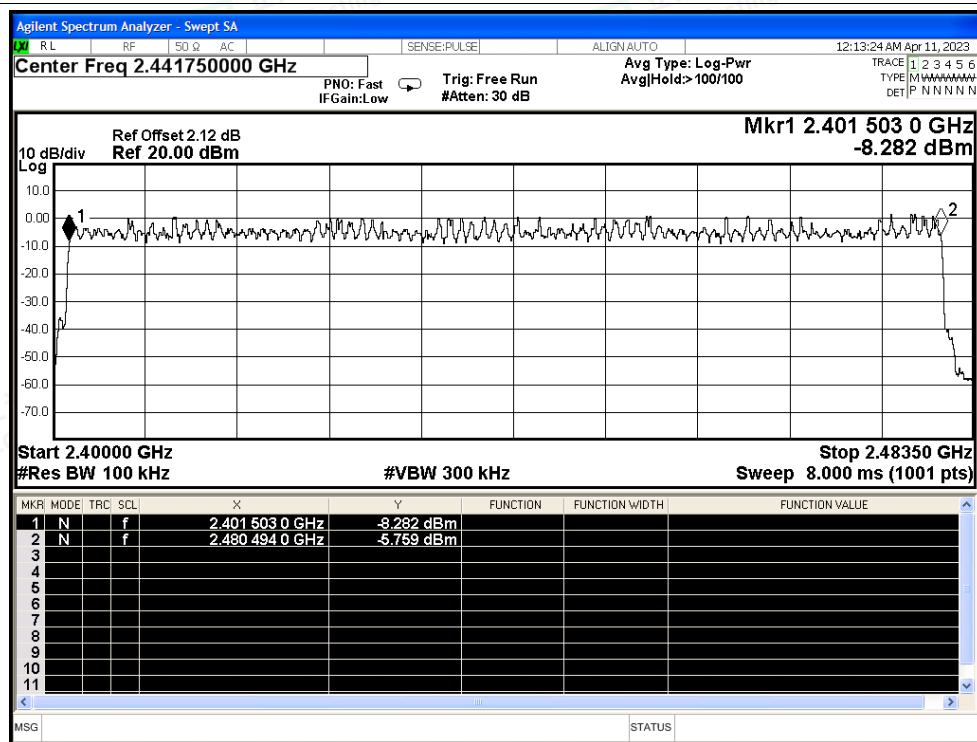


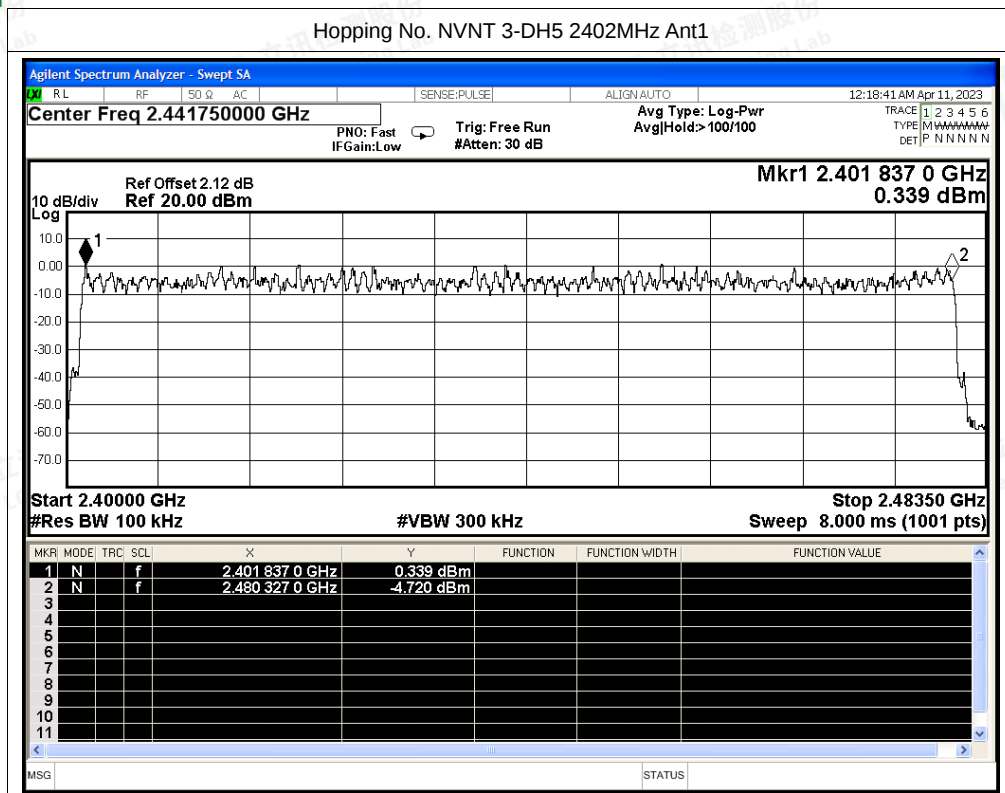
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

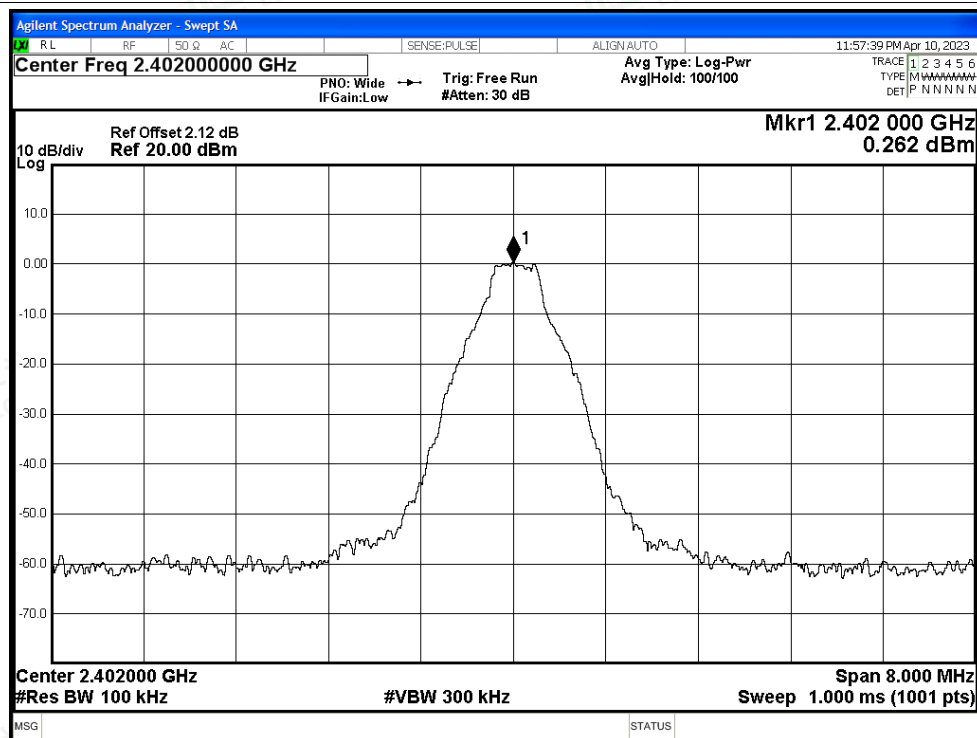
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.59	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.61	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.82	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-58.32	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.22	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.48	-20	Pass



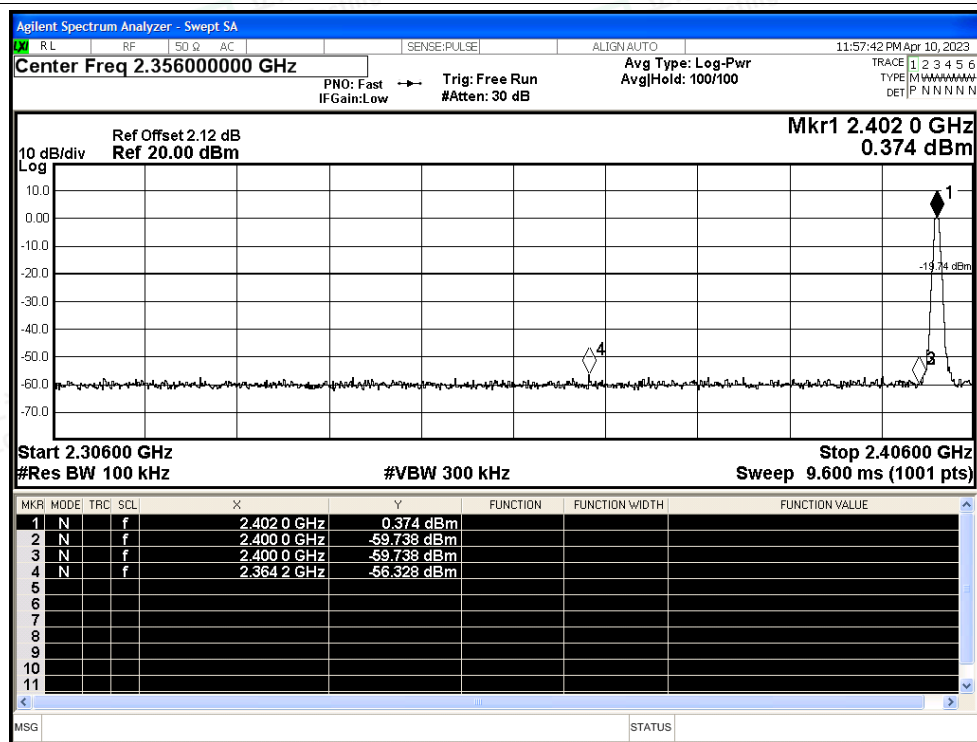


Test Graphs

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



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



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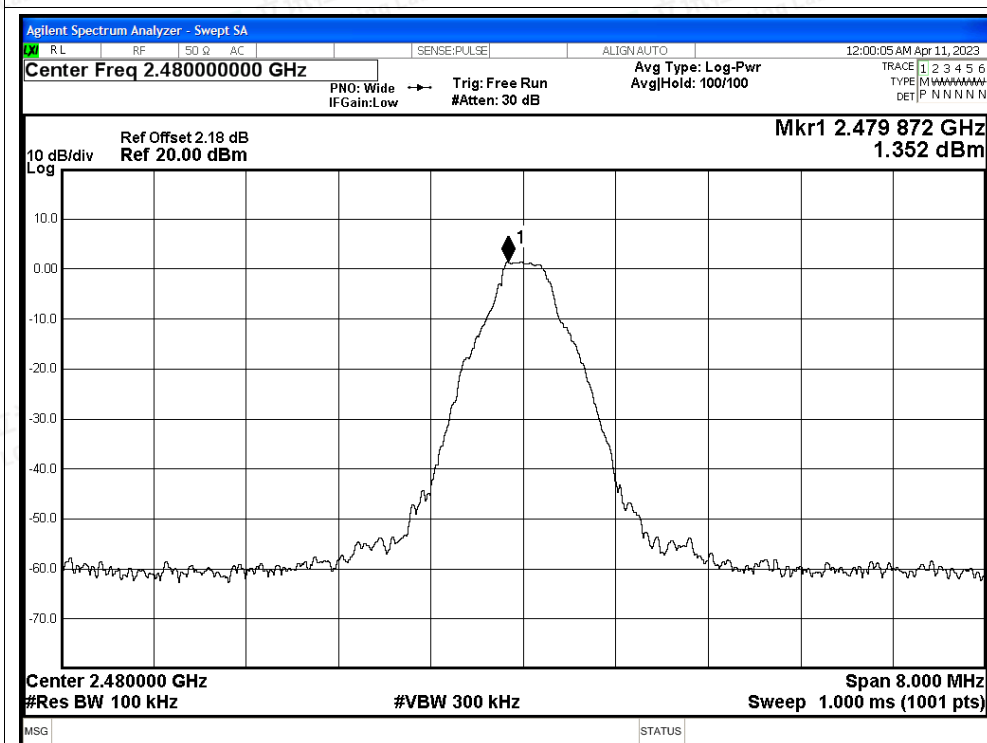
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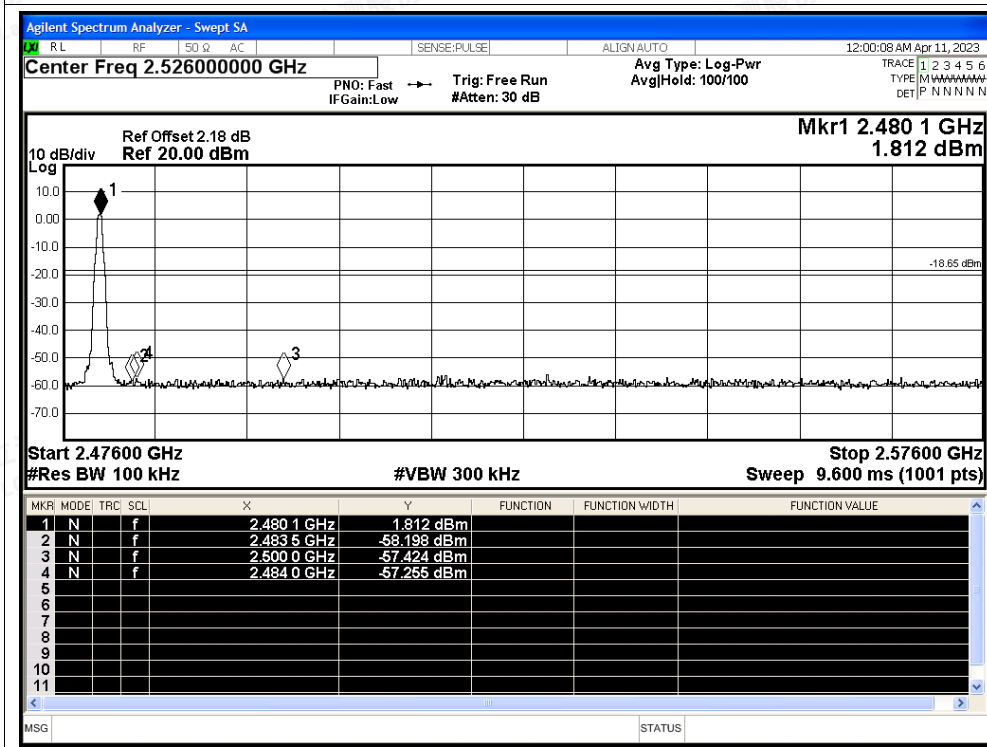
Scan code to check authenticity



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

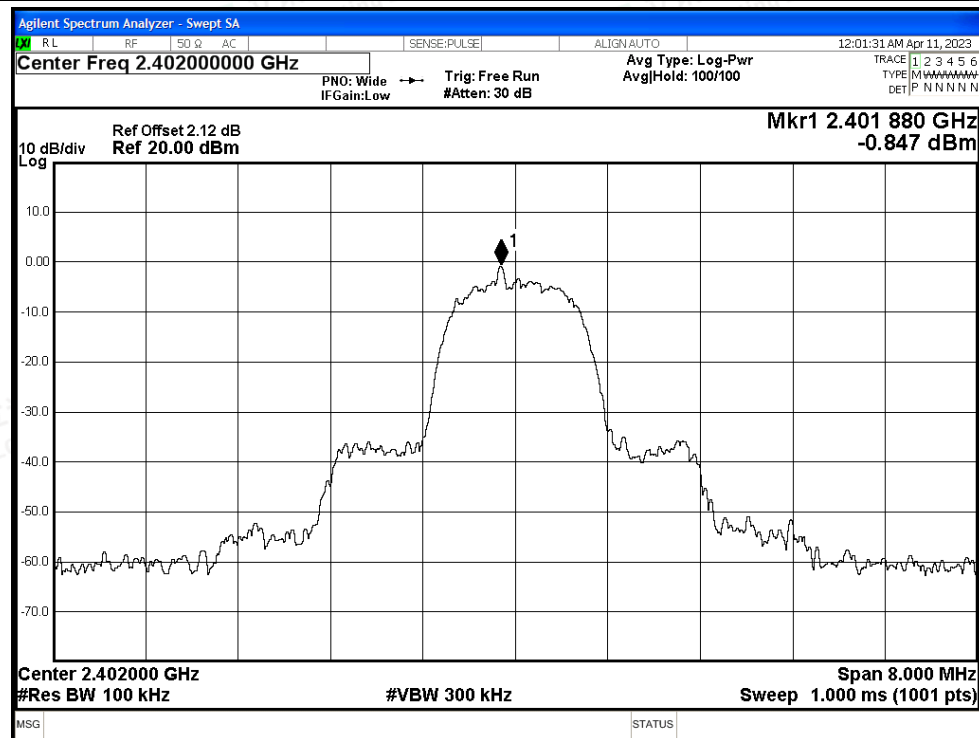


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

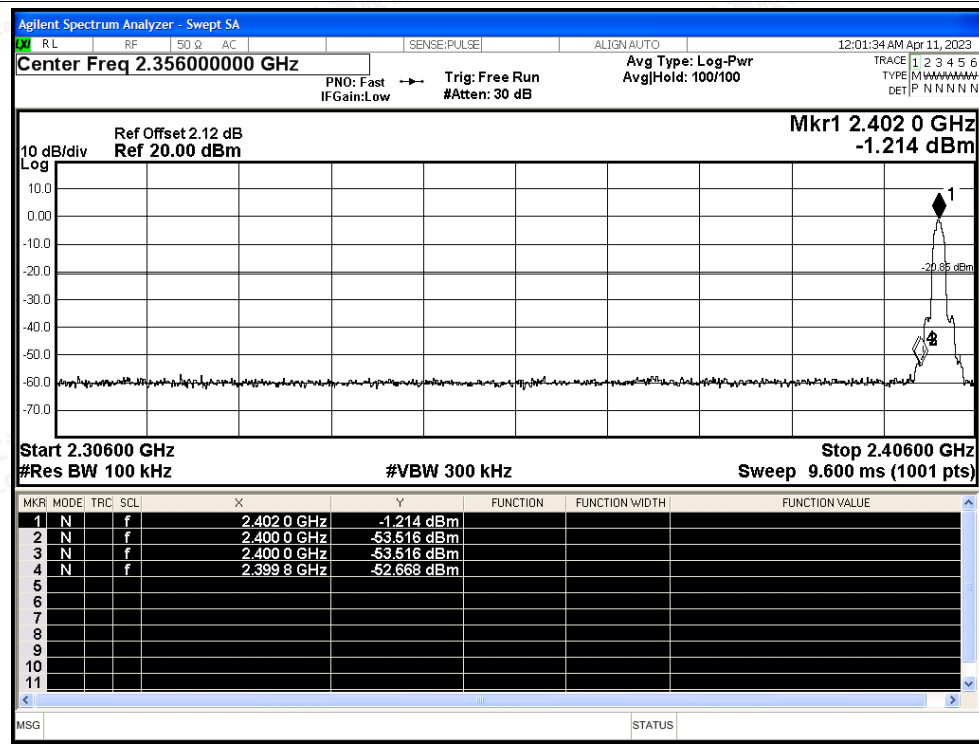




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

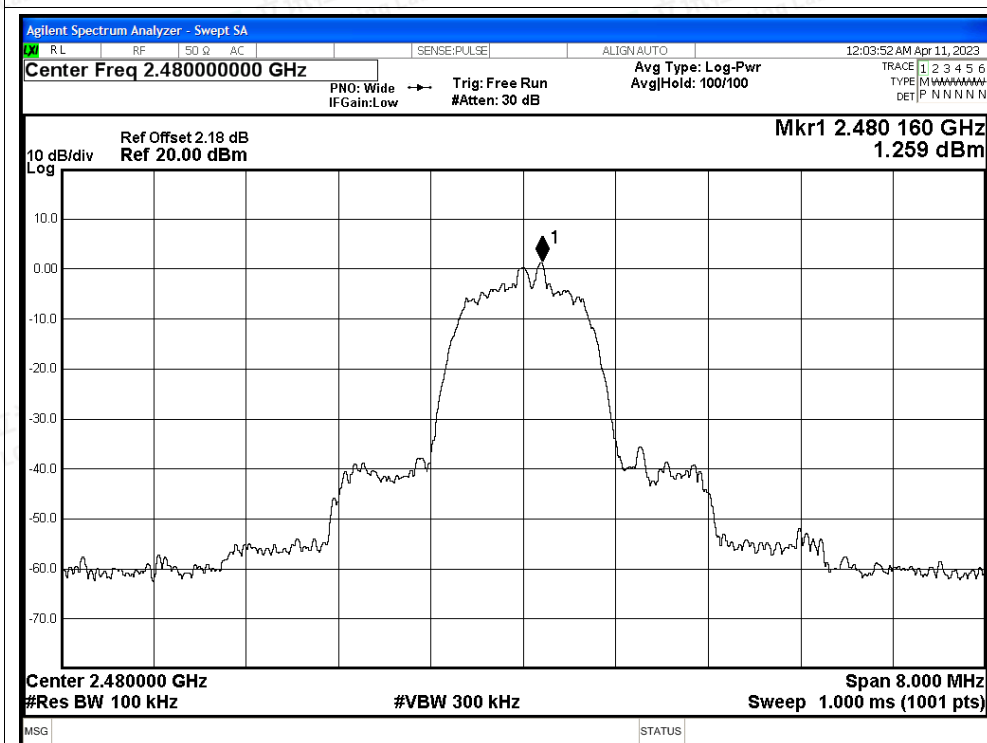


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

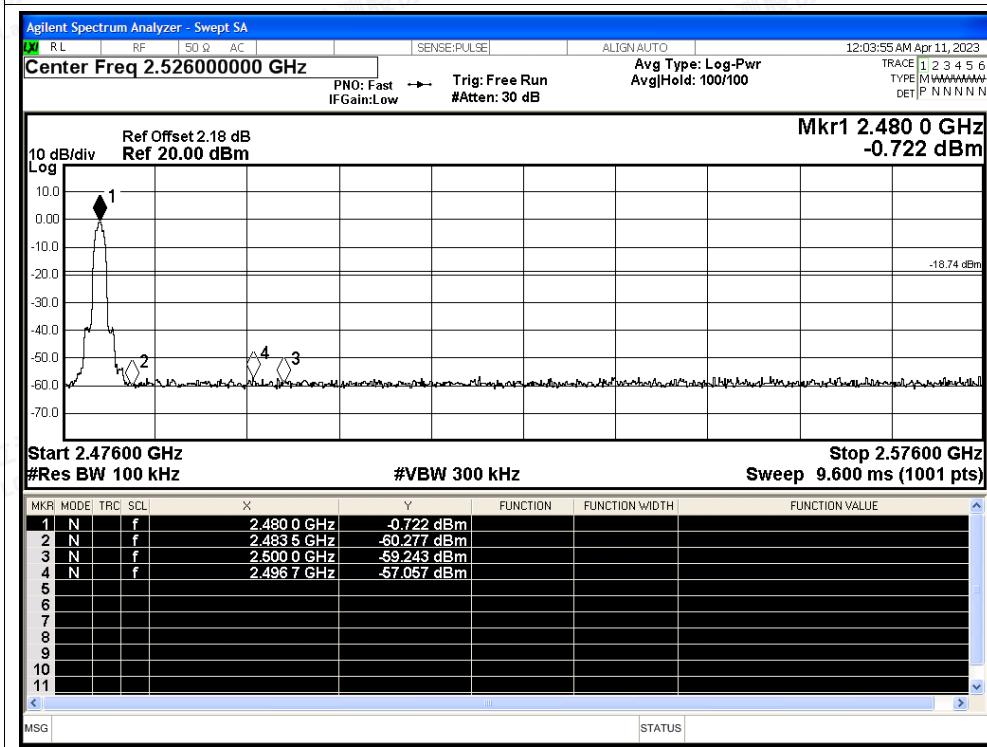




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

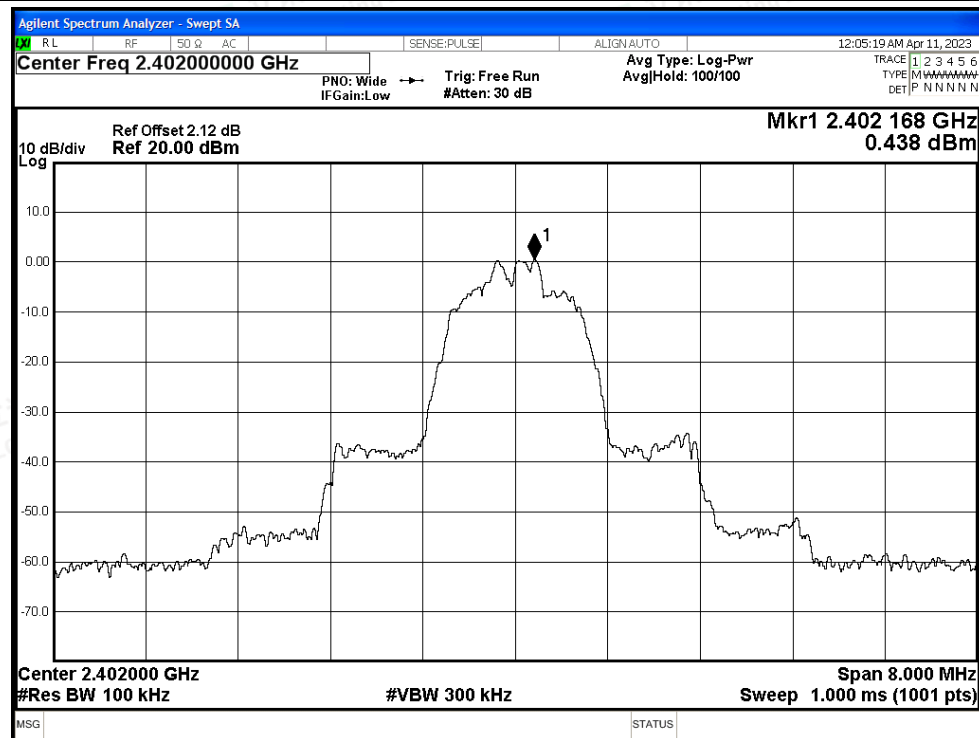


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

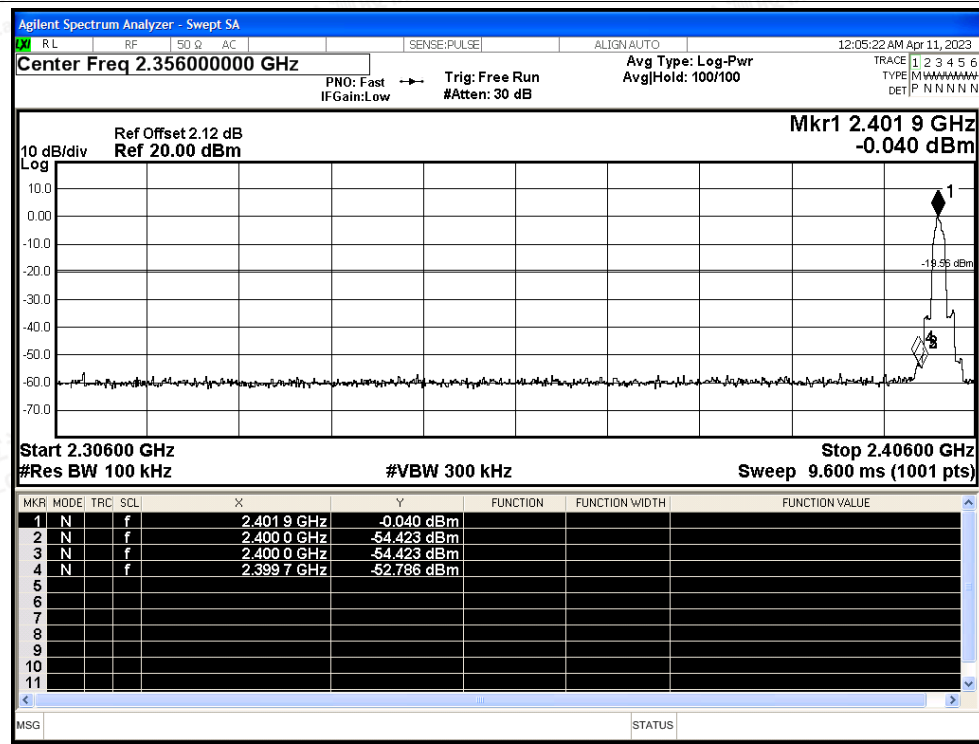




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

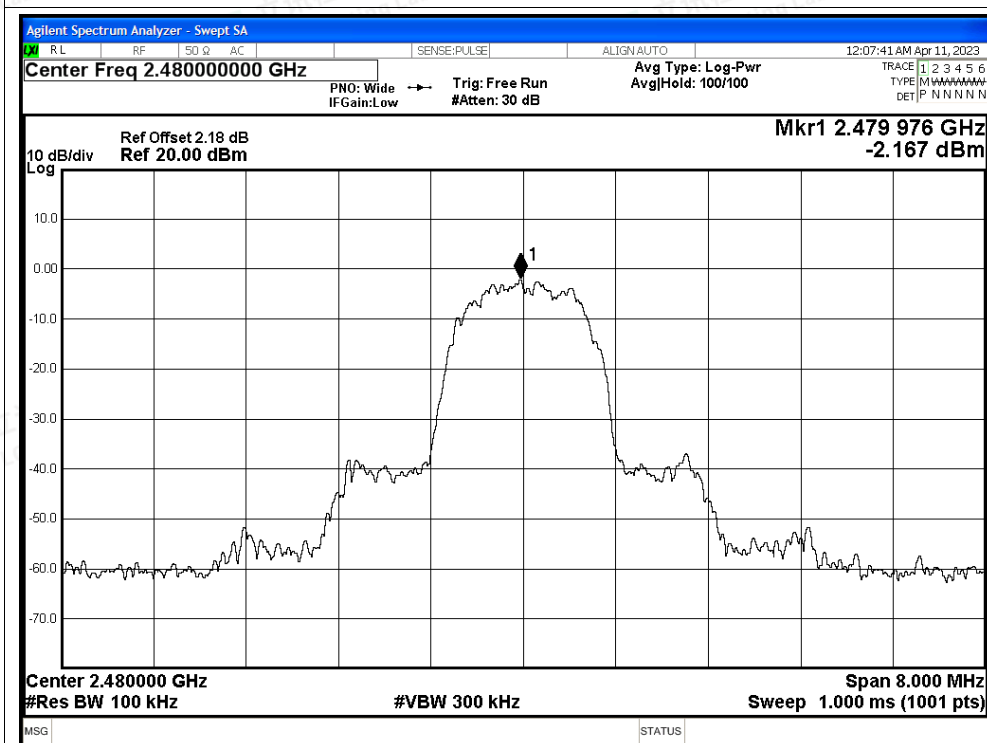


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

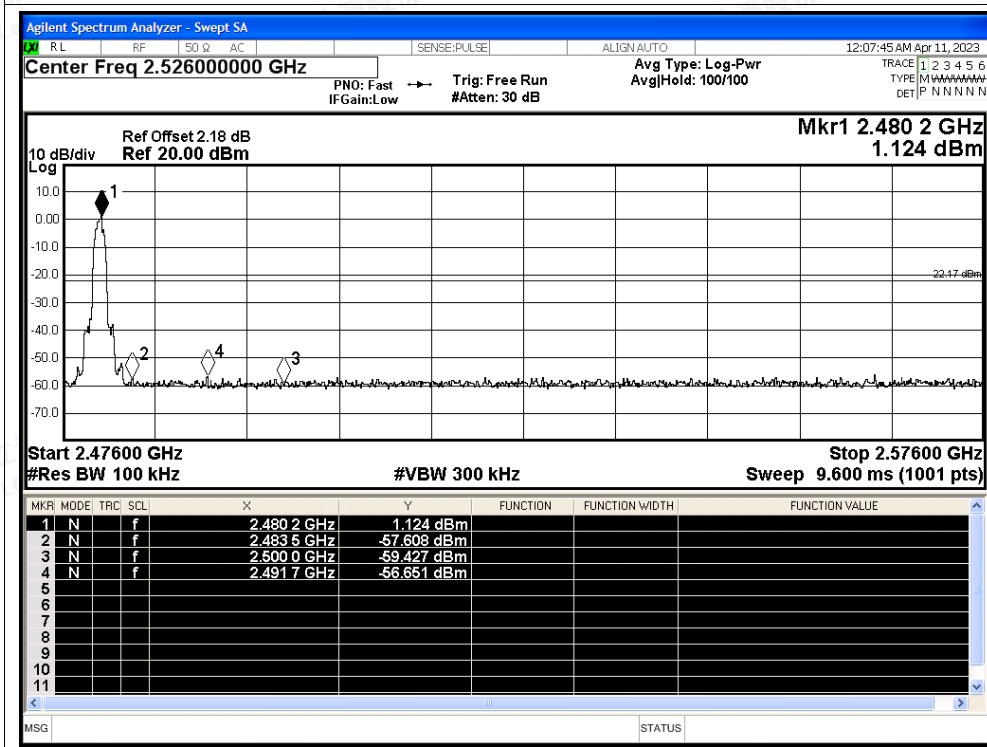




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



**(Hopping)**

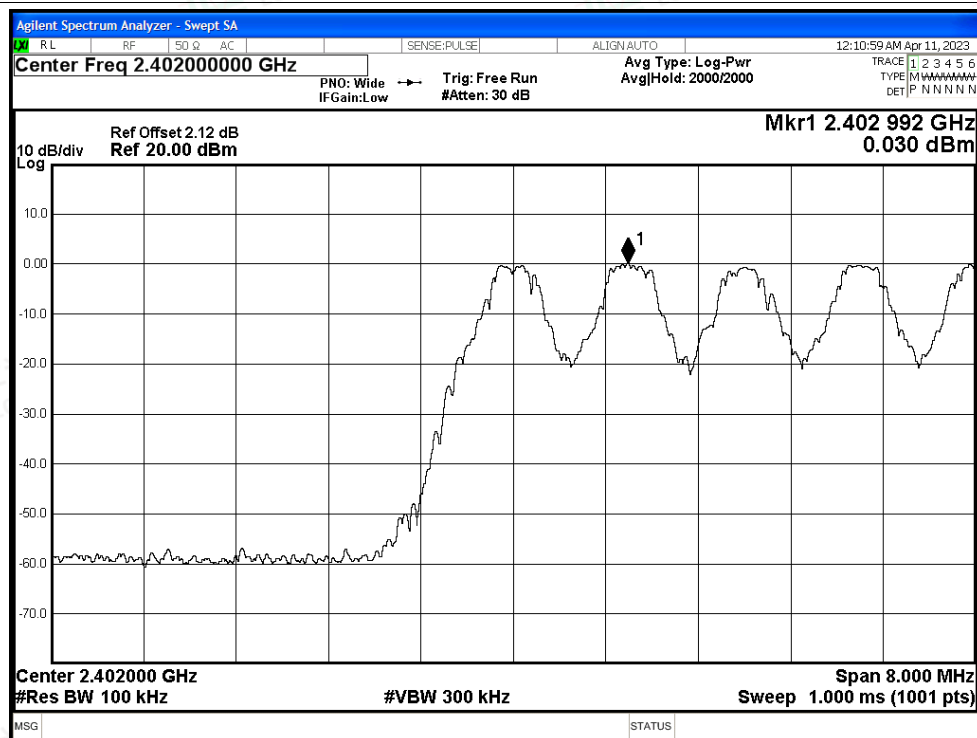
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.37	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.49	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-56.86	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.42	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-56.27	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-56.13	-20	Pass



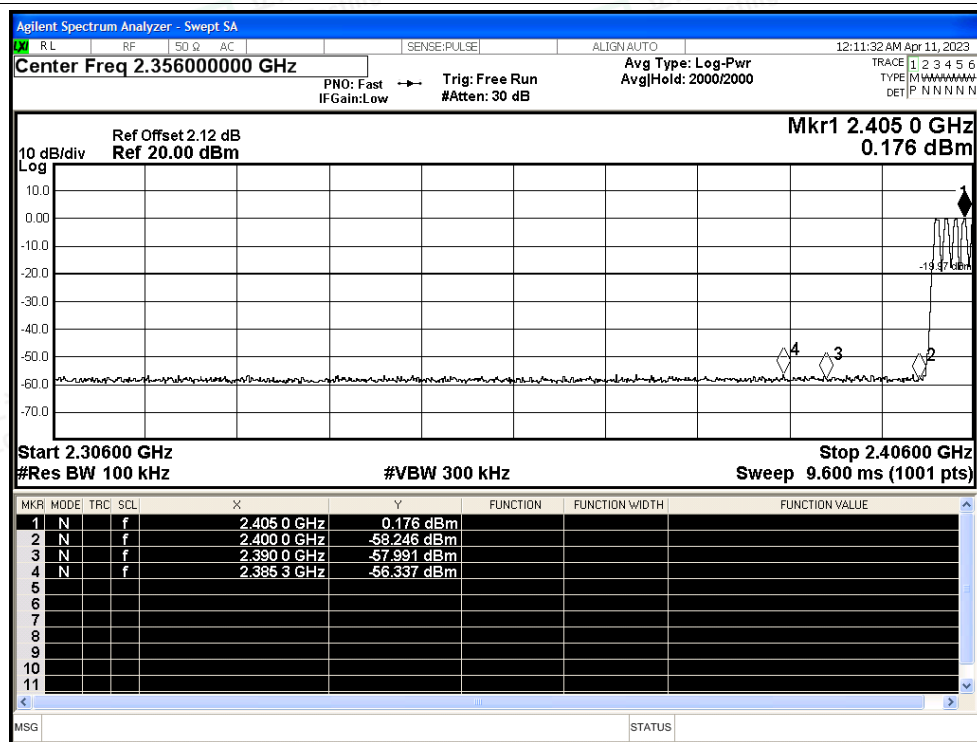


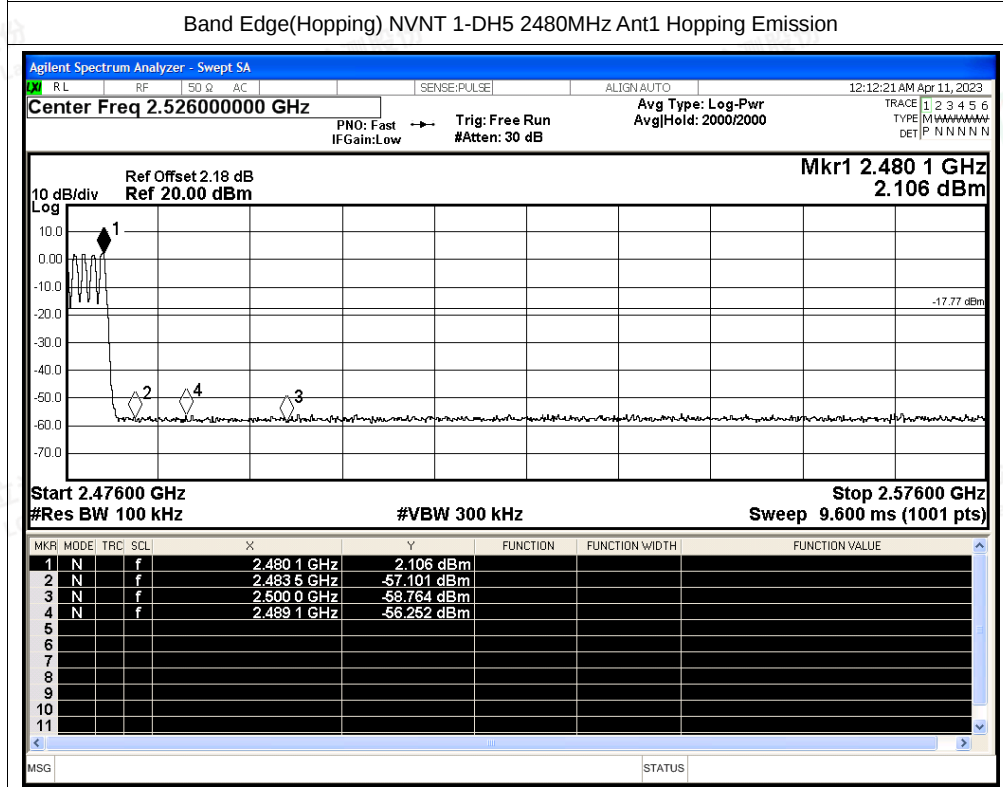
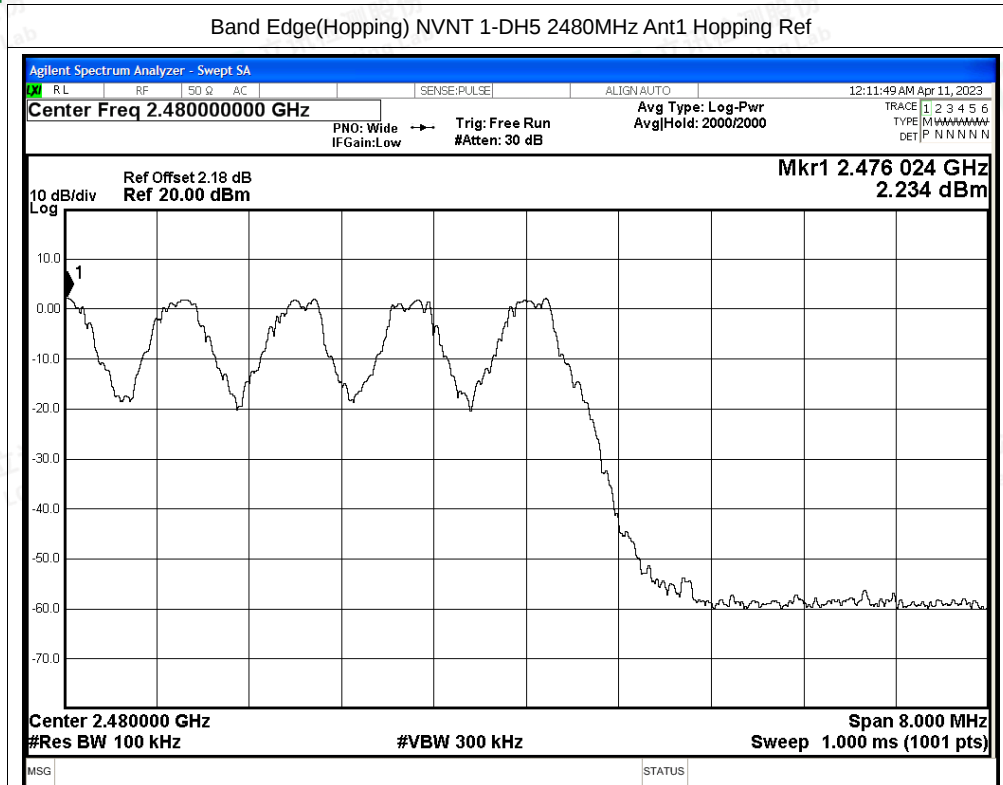
Test Graphs

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



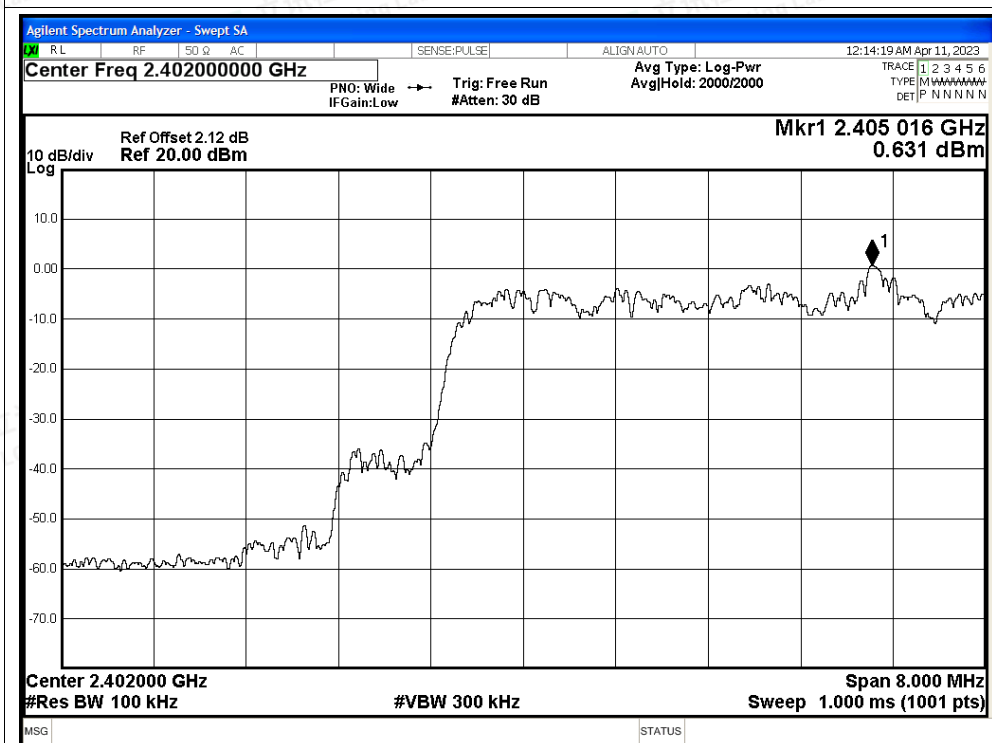
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



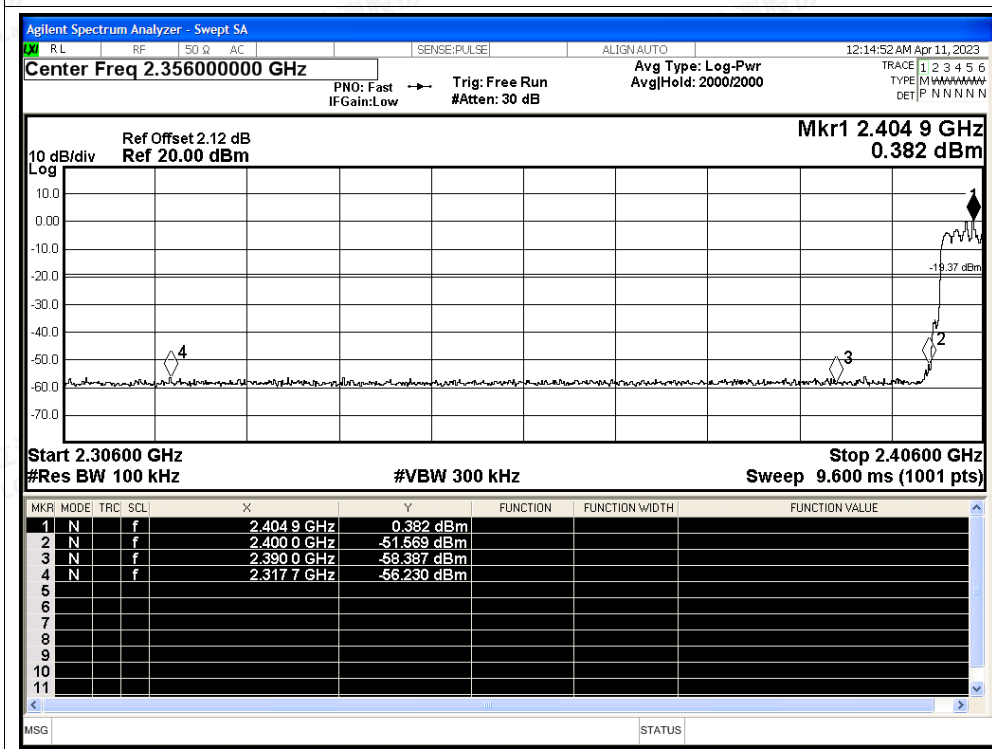


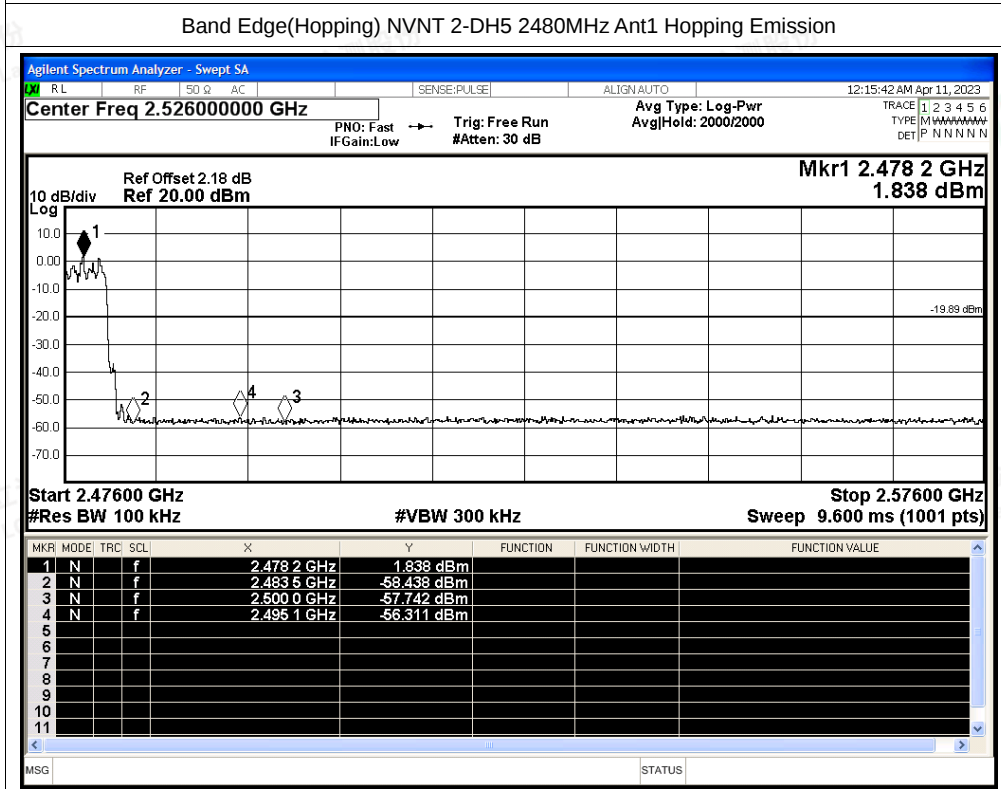
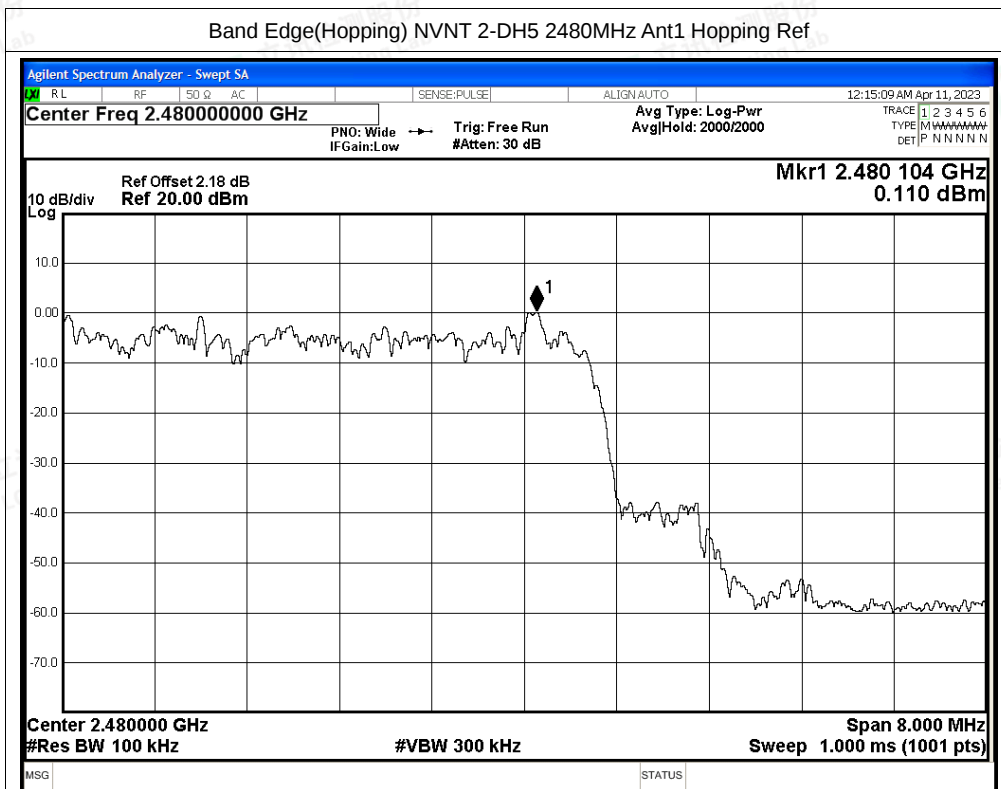


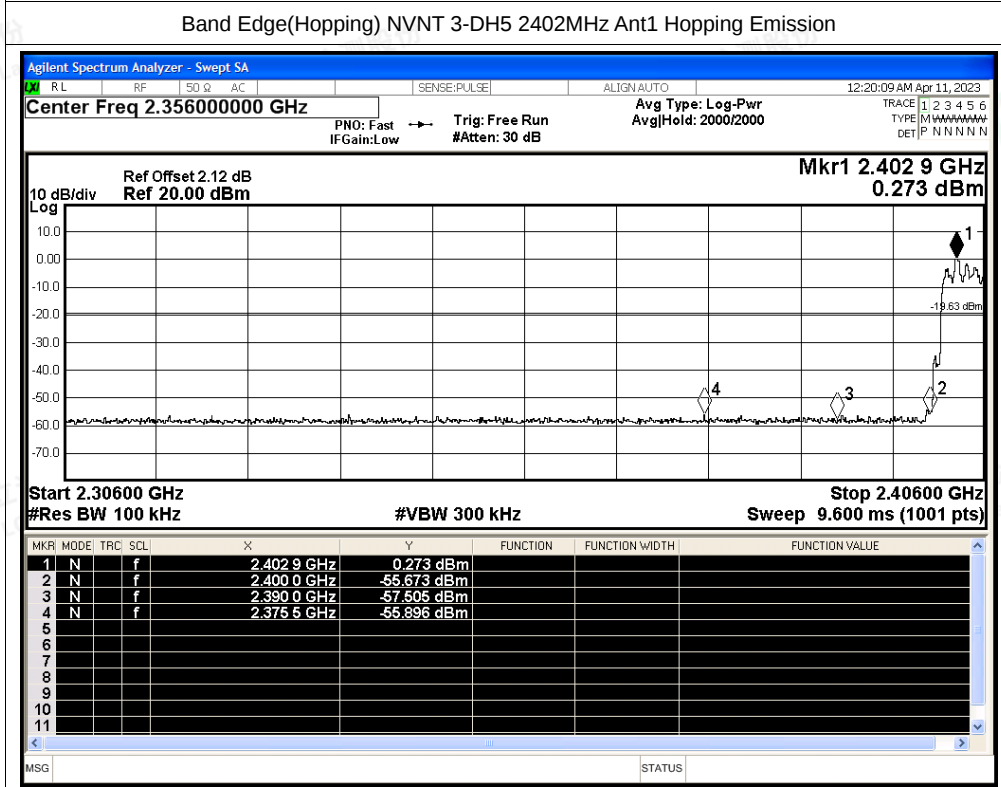
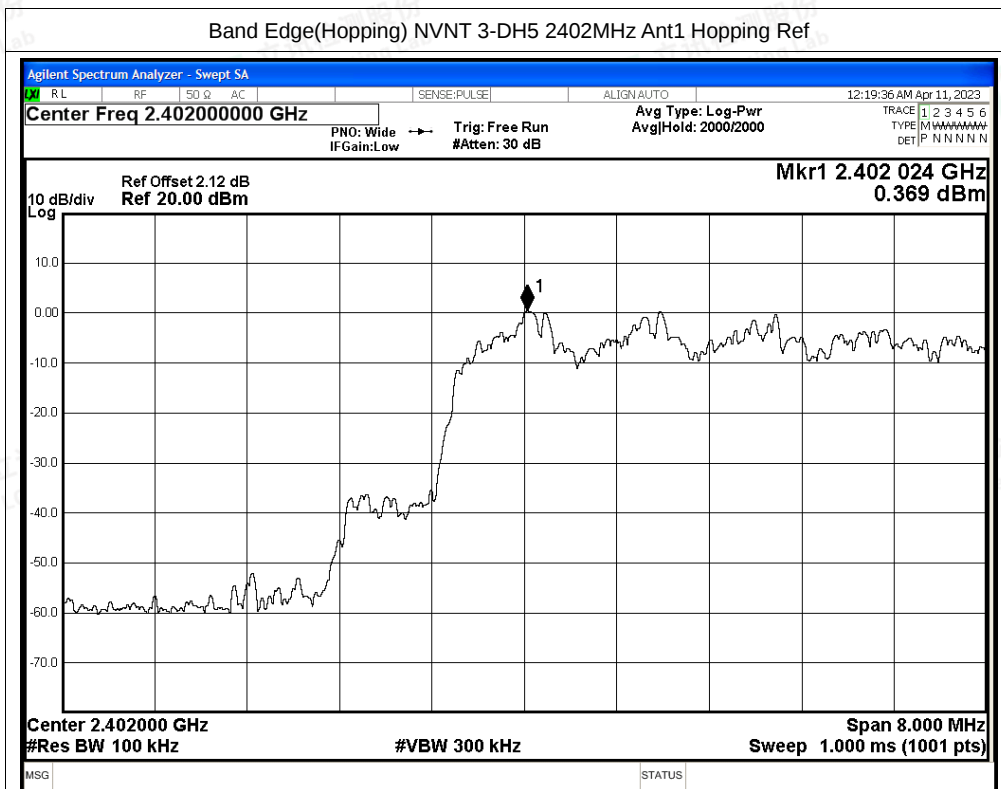
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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

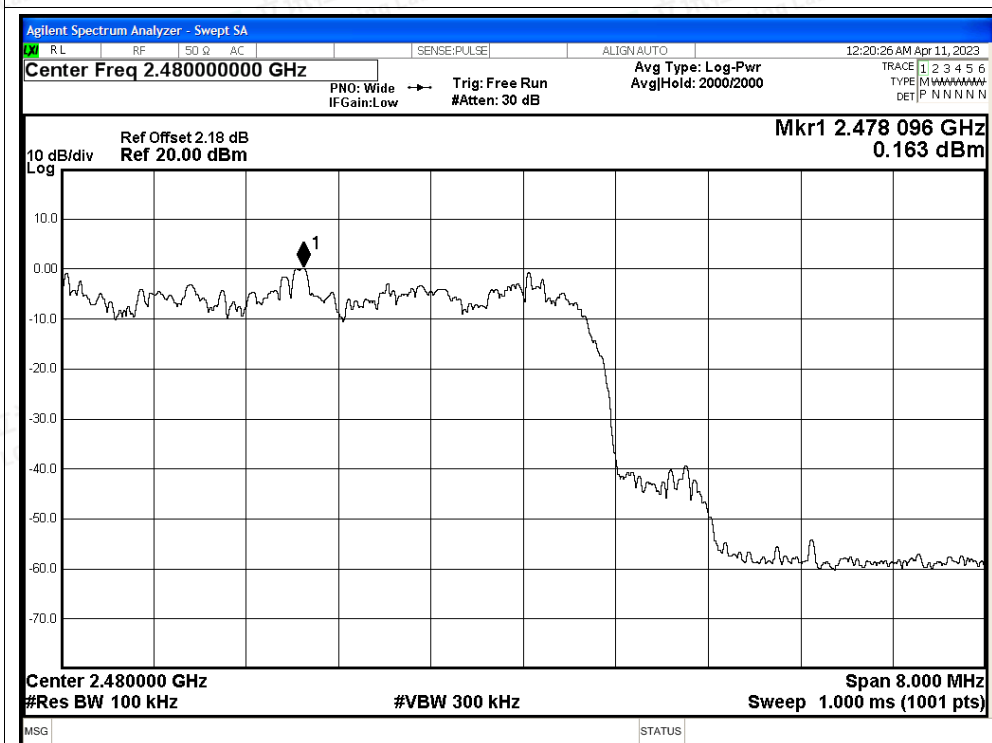




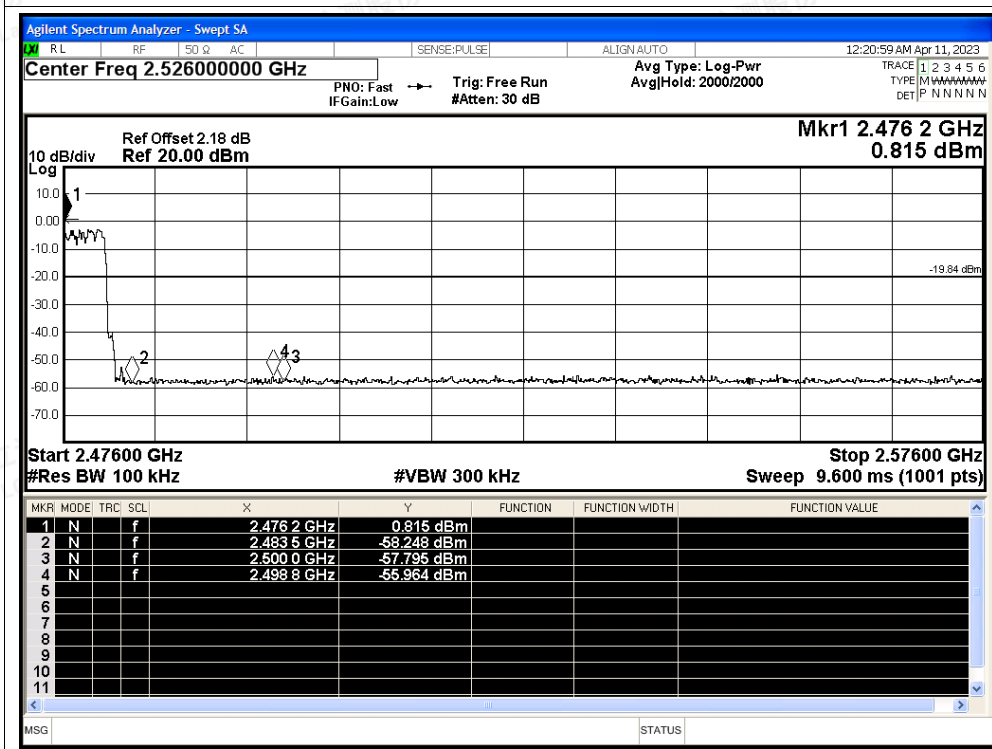




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.26	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.92	-20	Pass
NVNT	1-DH5	2480	Ant1	-56.88	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.38	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.65	-20	Pass
NVNT	2-DH5	2480	Ant1	-55.83	-20	Pass
NVNT	3-DH5	2402	Ant1	-55.52	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.53	-20	Pass
NVNT	3-DH5	2480	Ant1	-55.06	-20	Pass

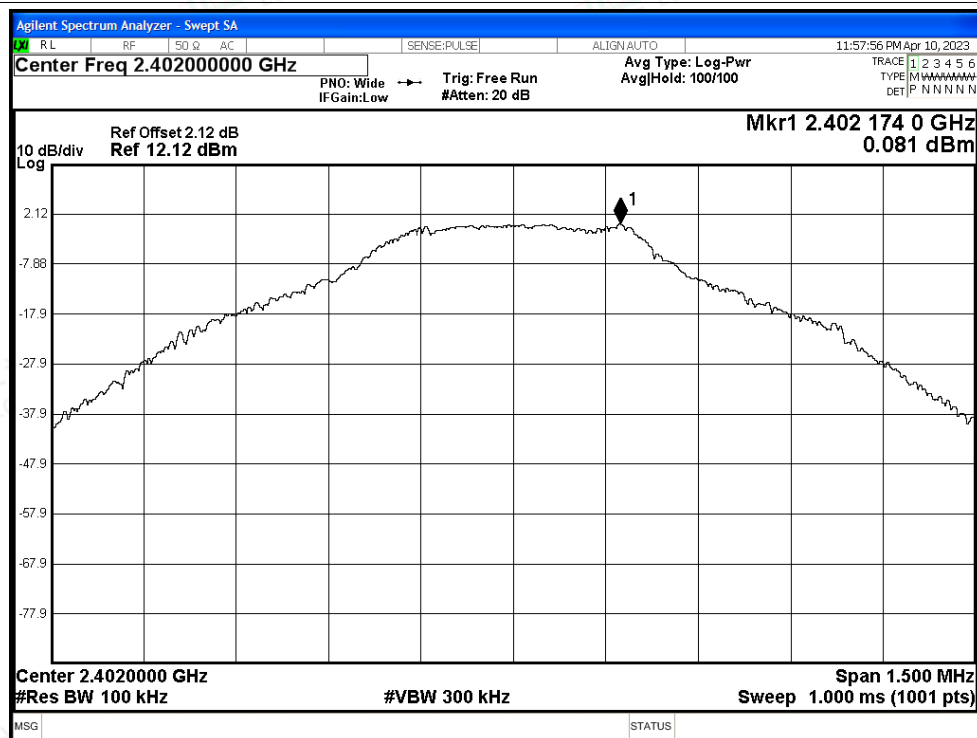


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Scan code to check authenticity

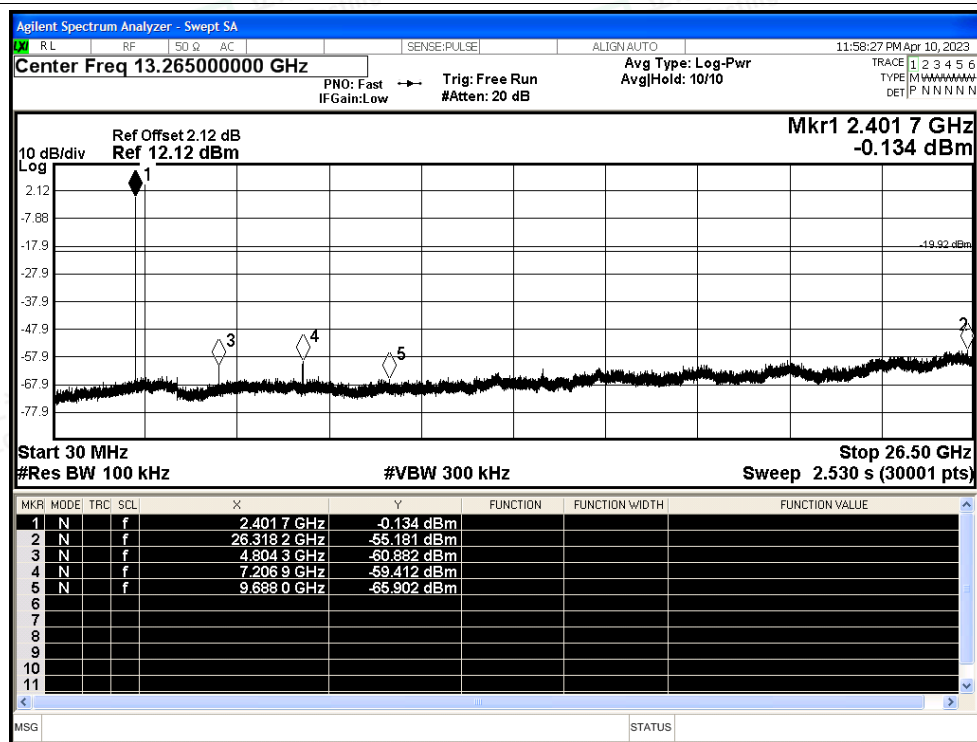


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

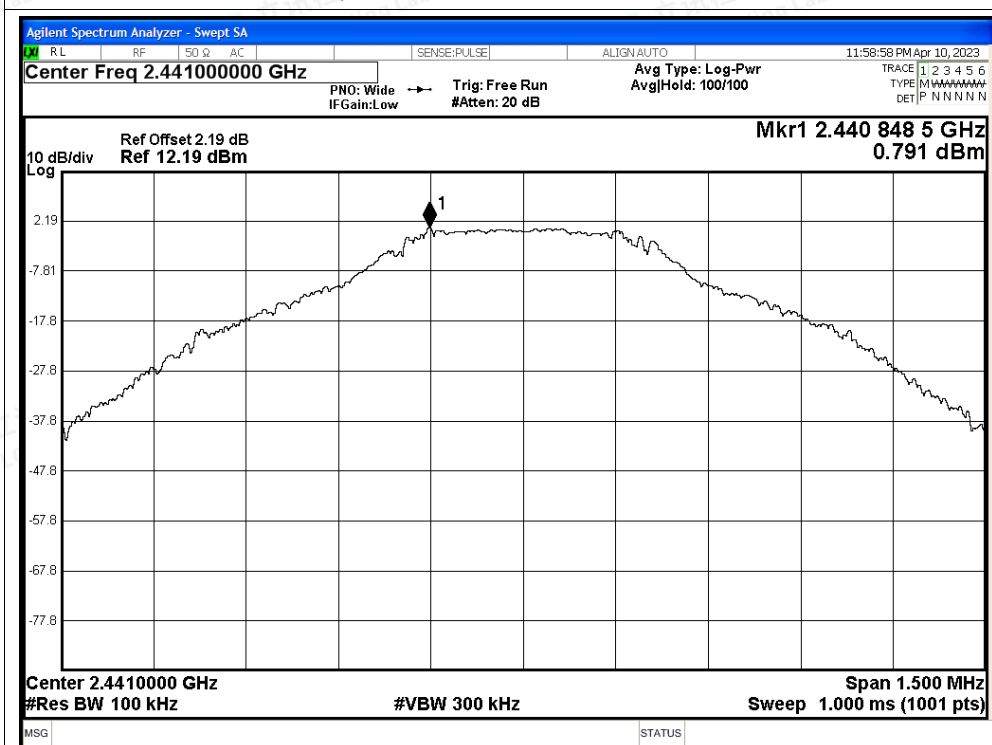


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

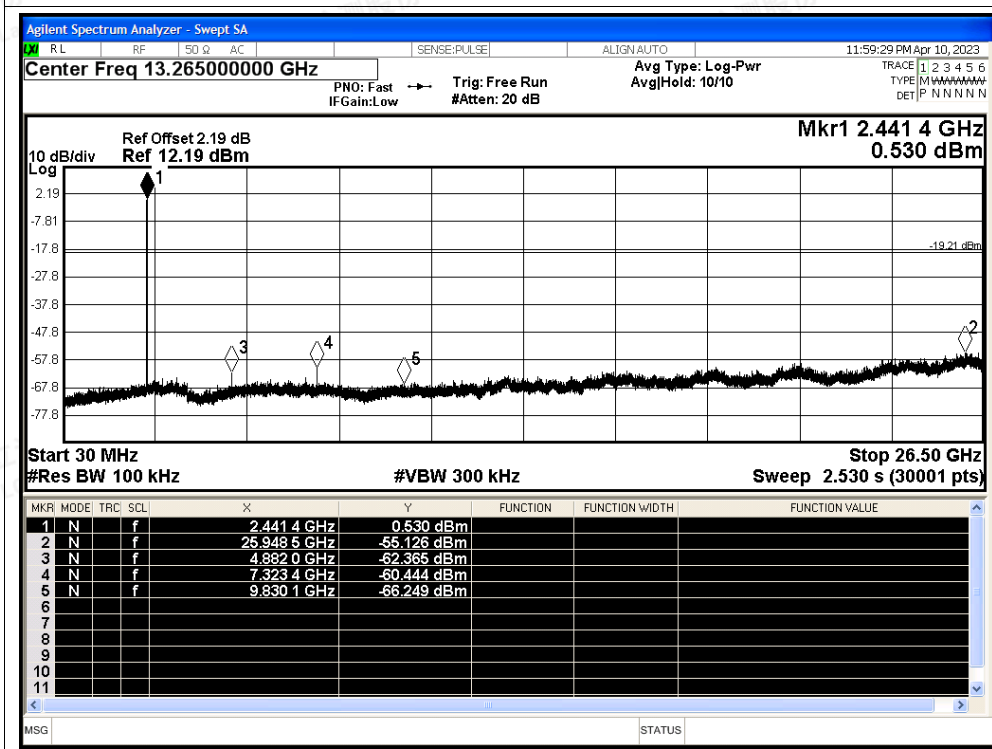




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

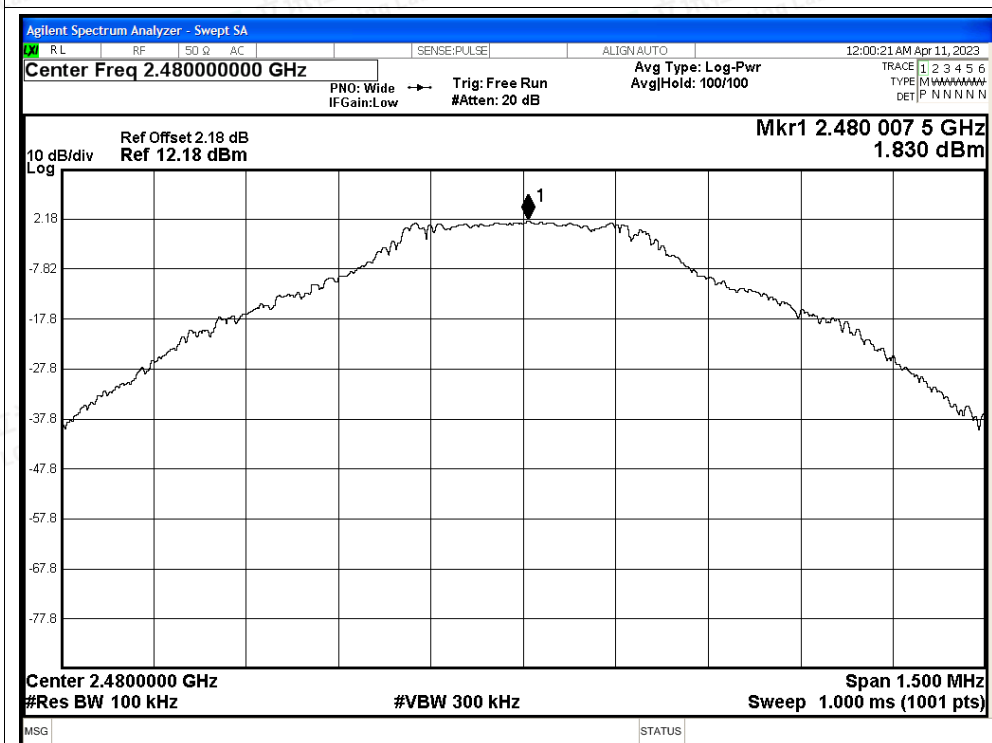


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

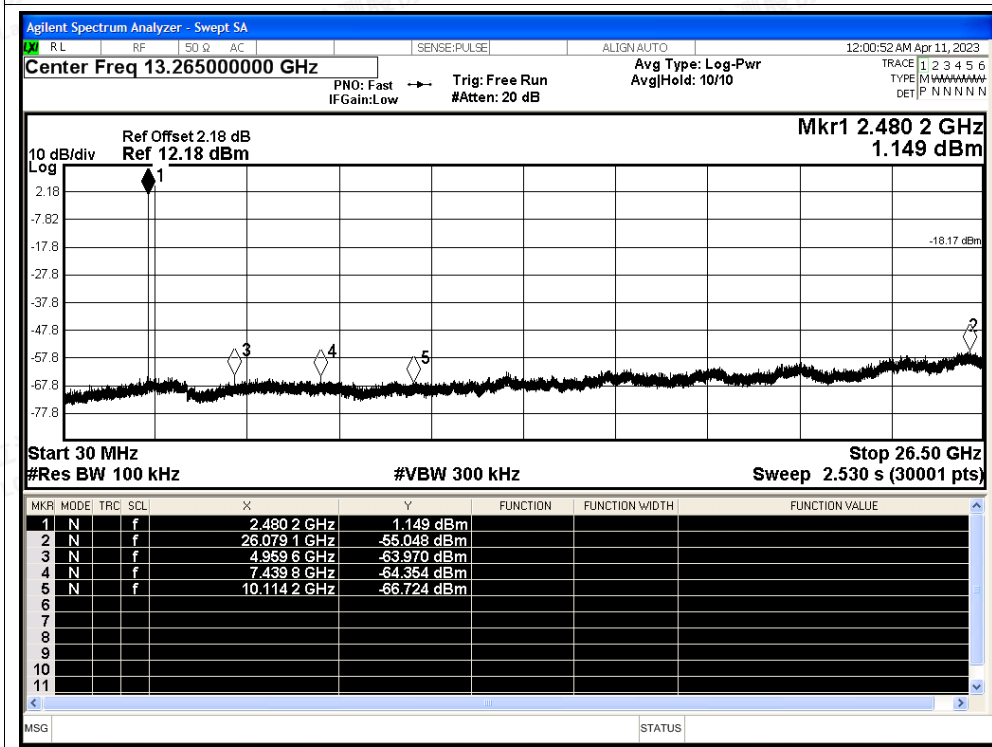




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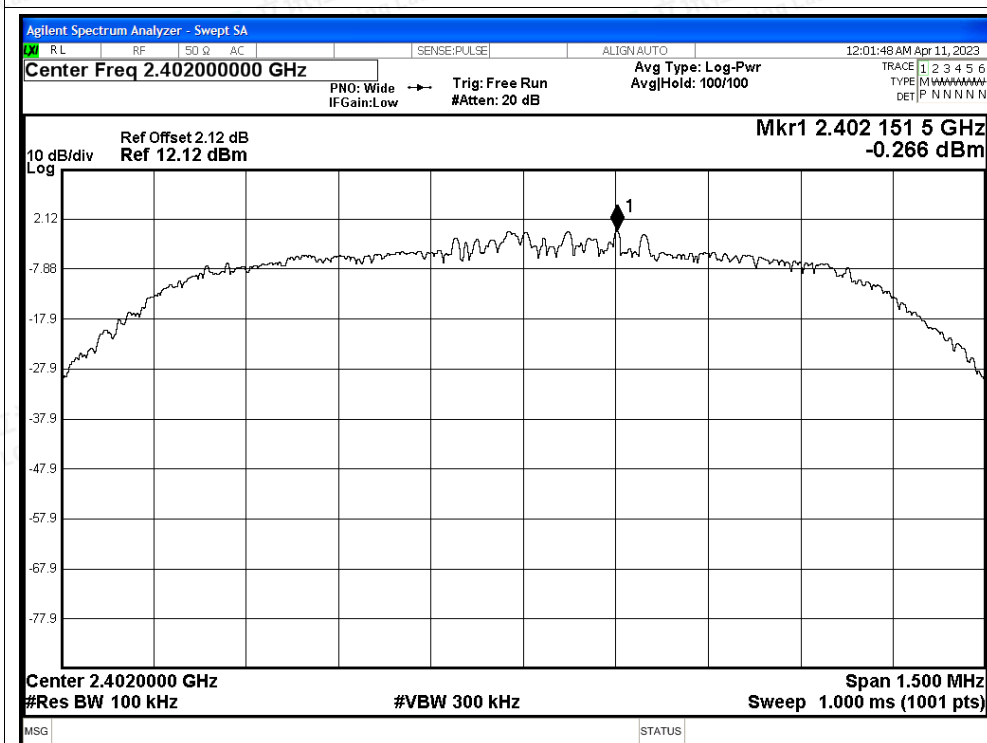


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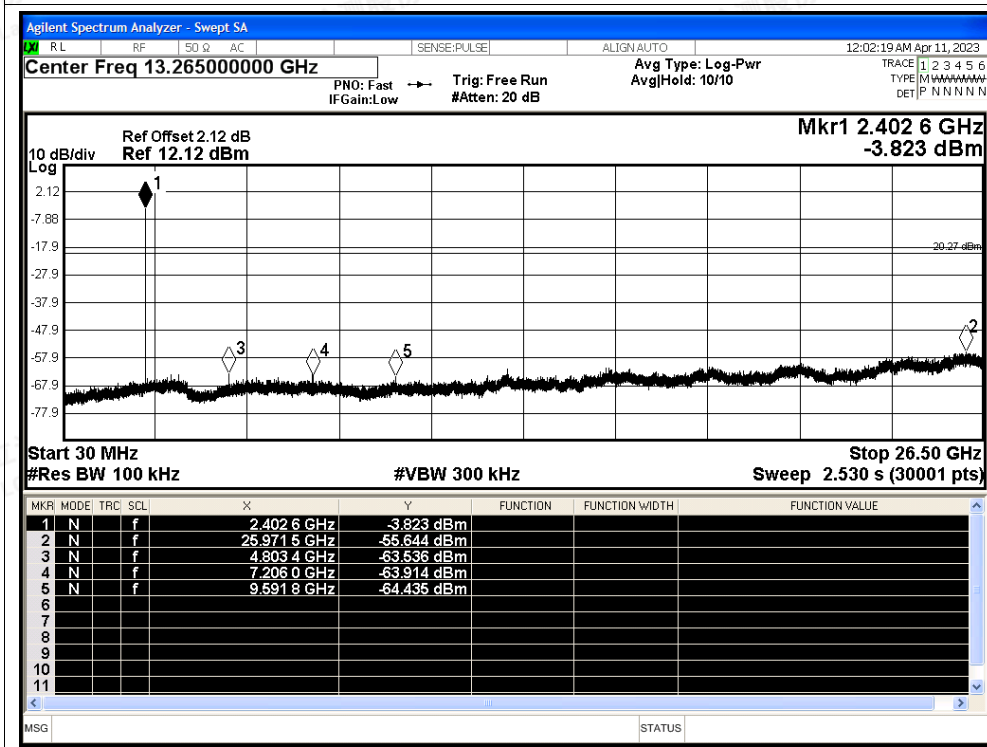




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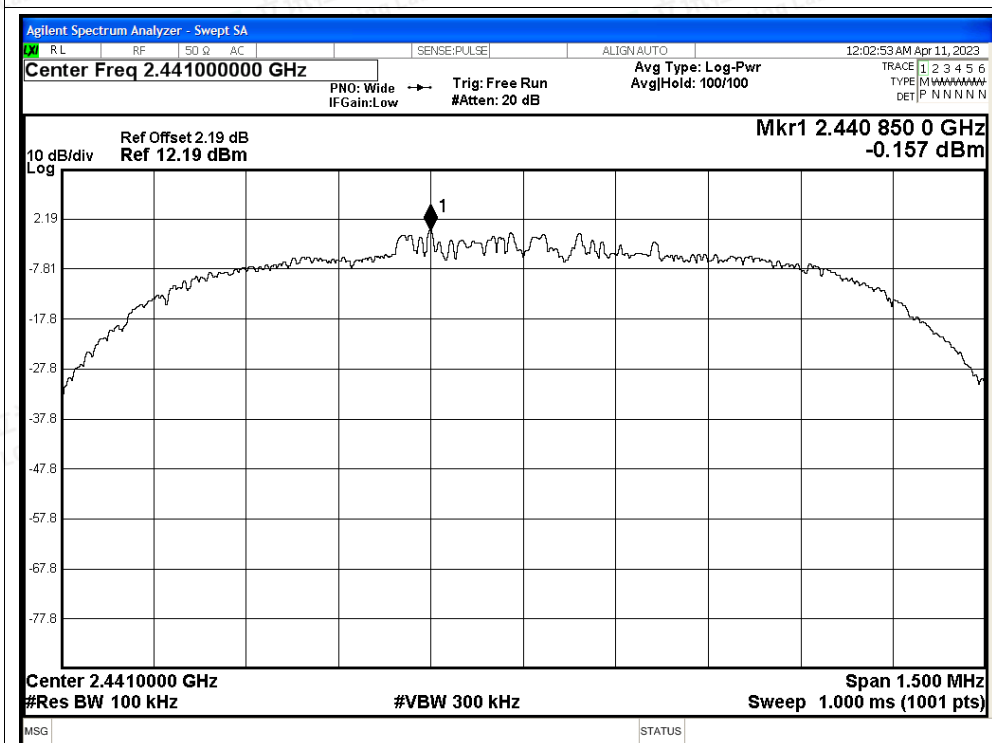


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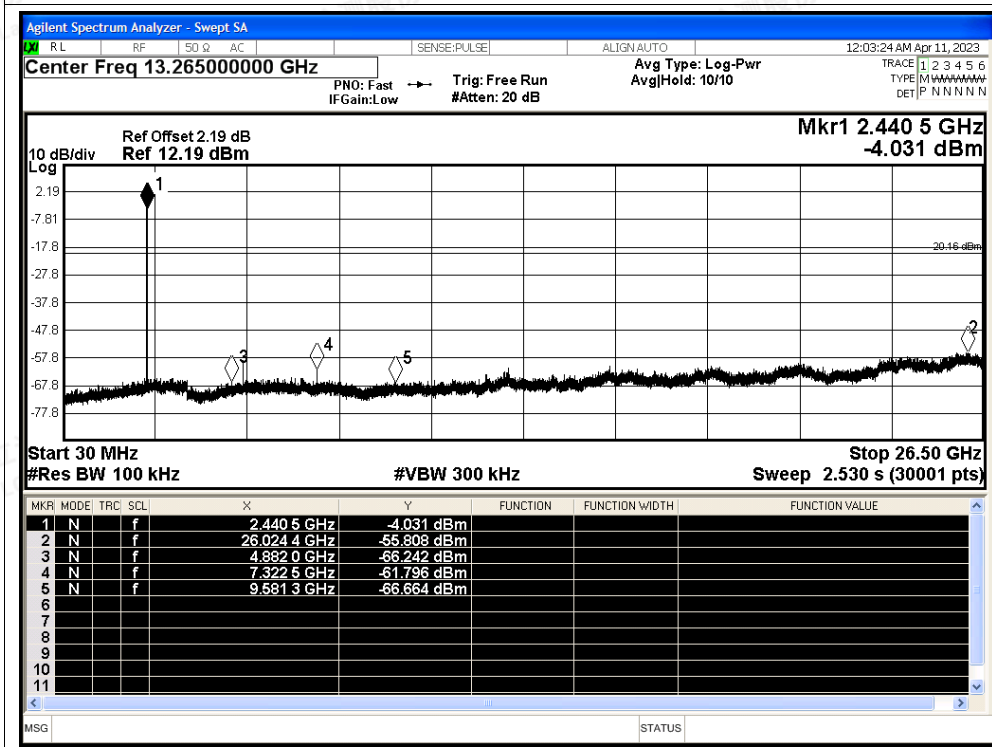




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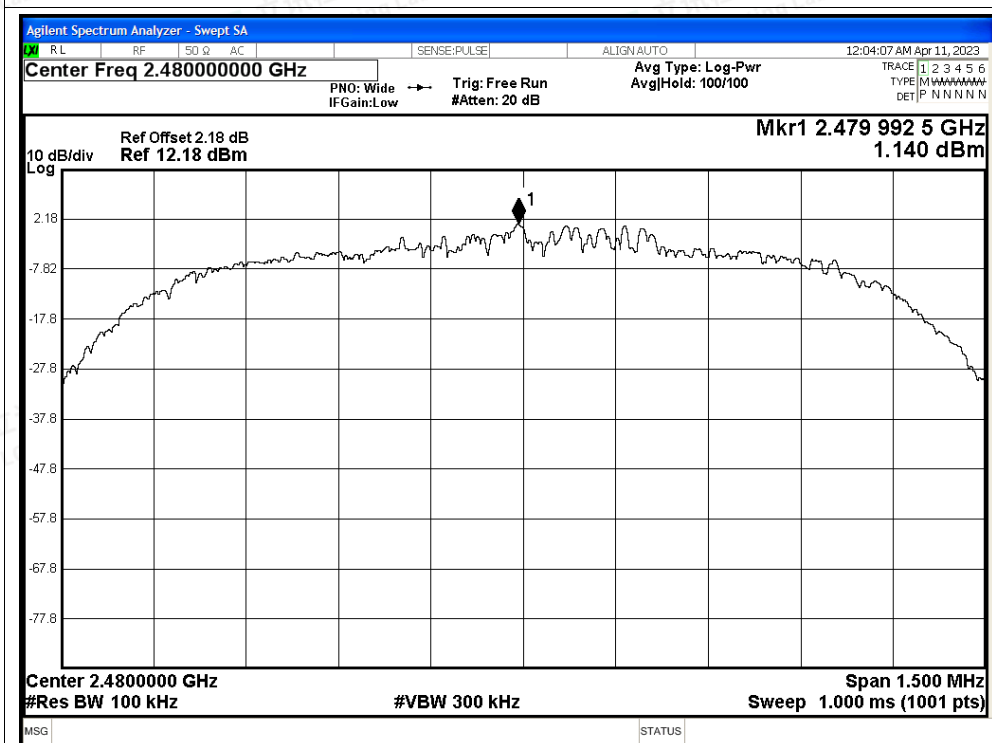


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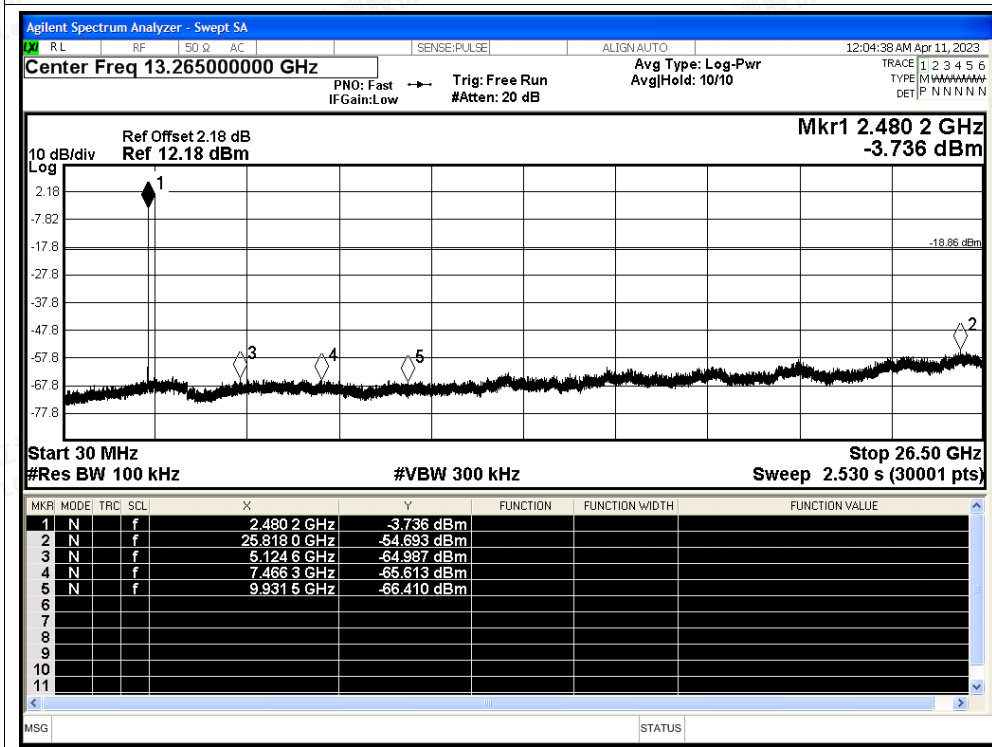




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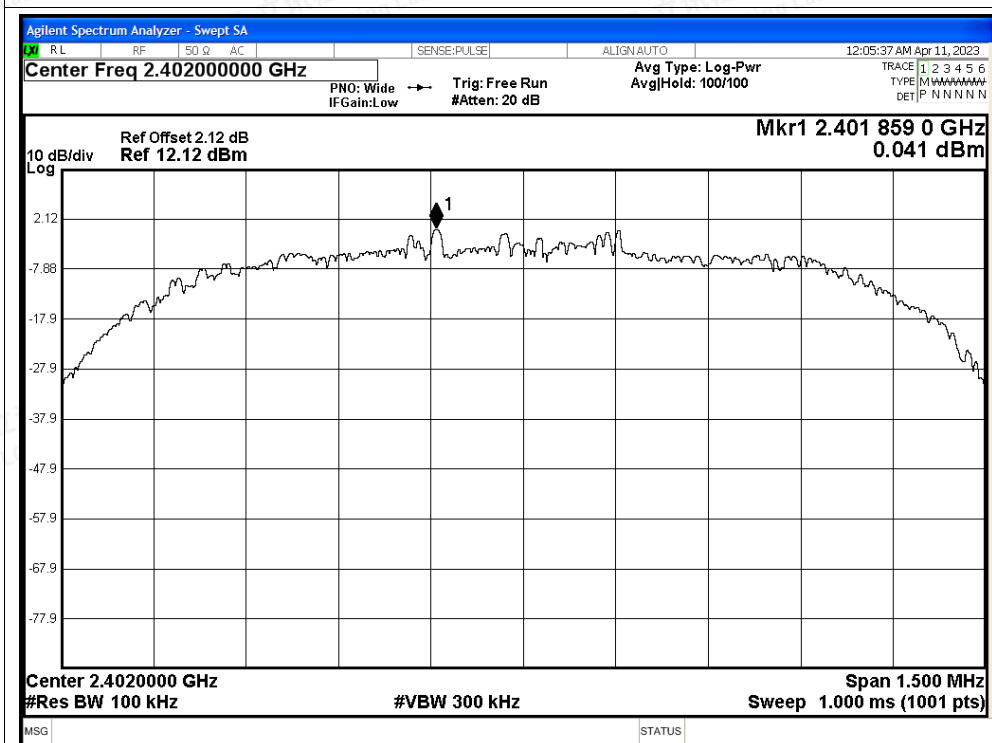


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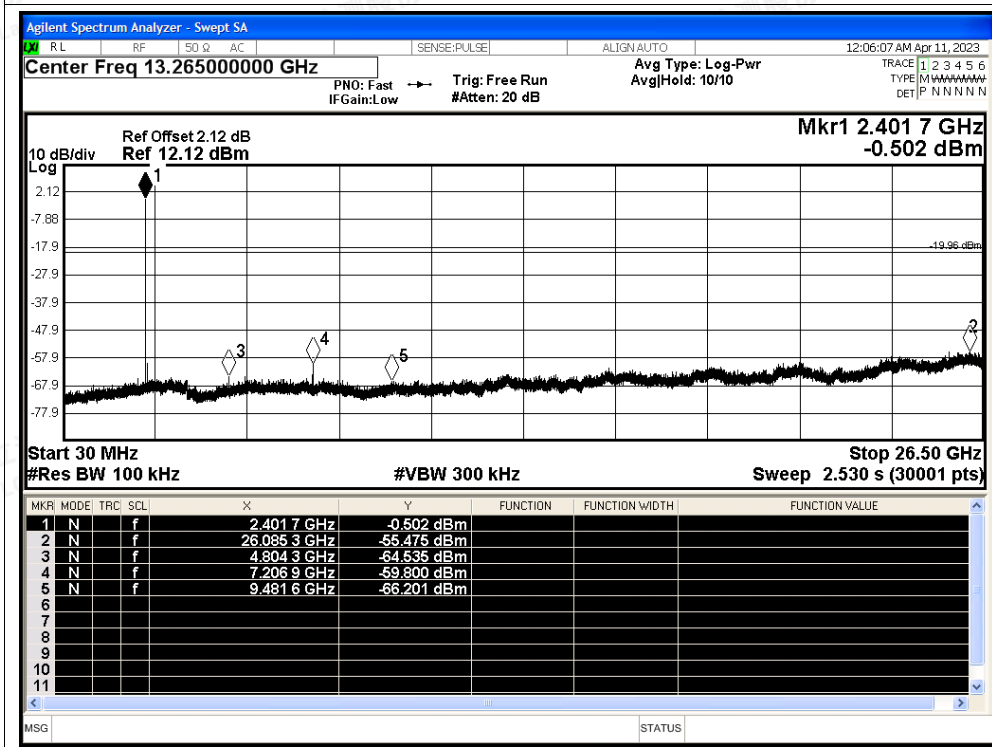




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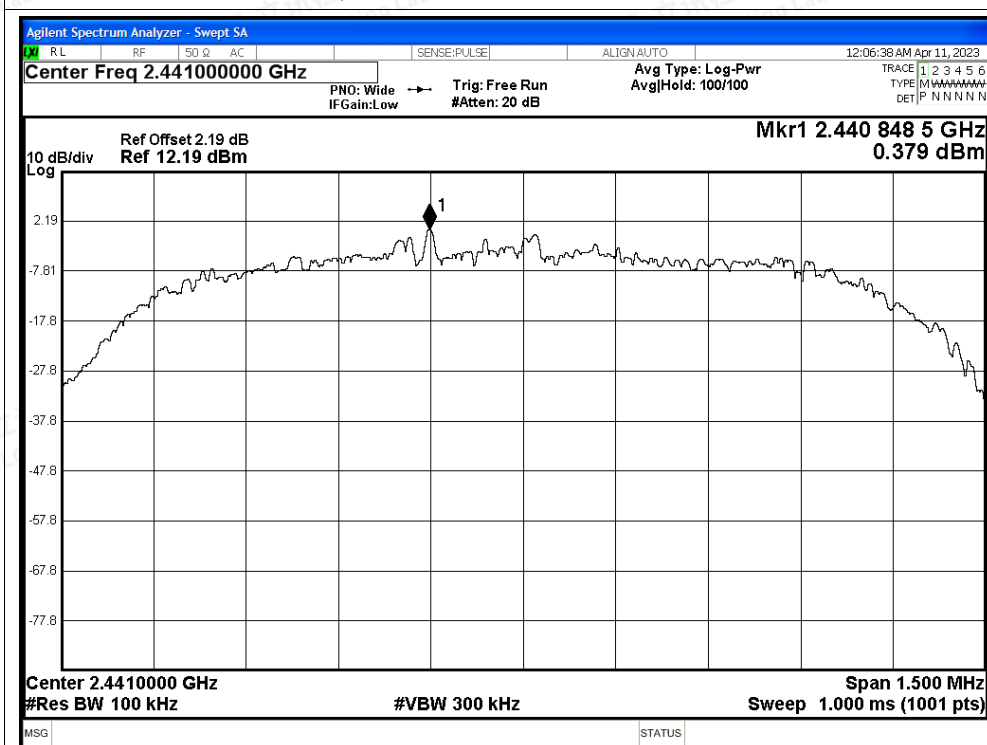


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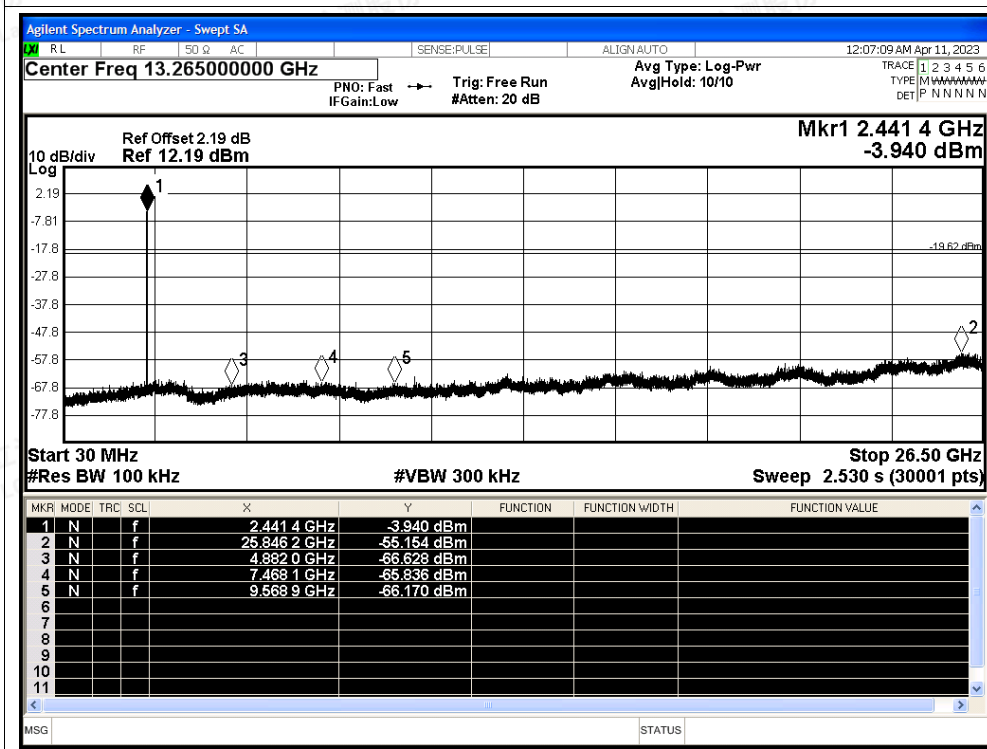




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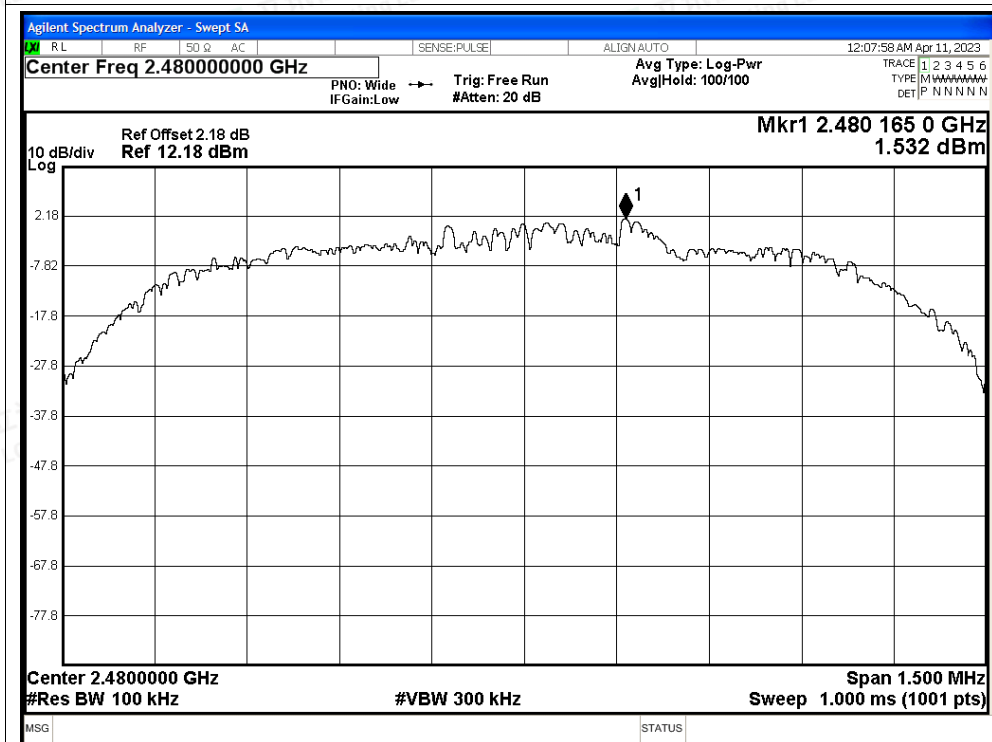


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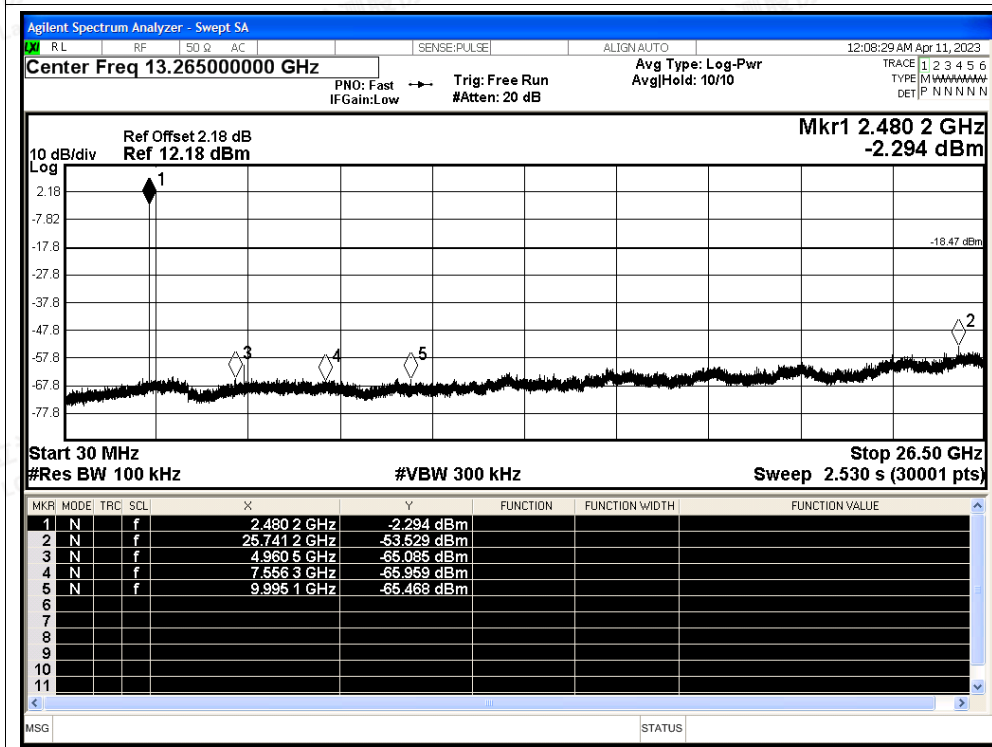




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

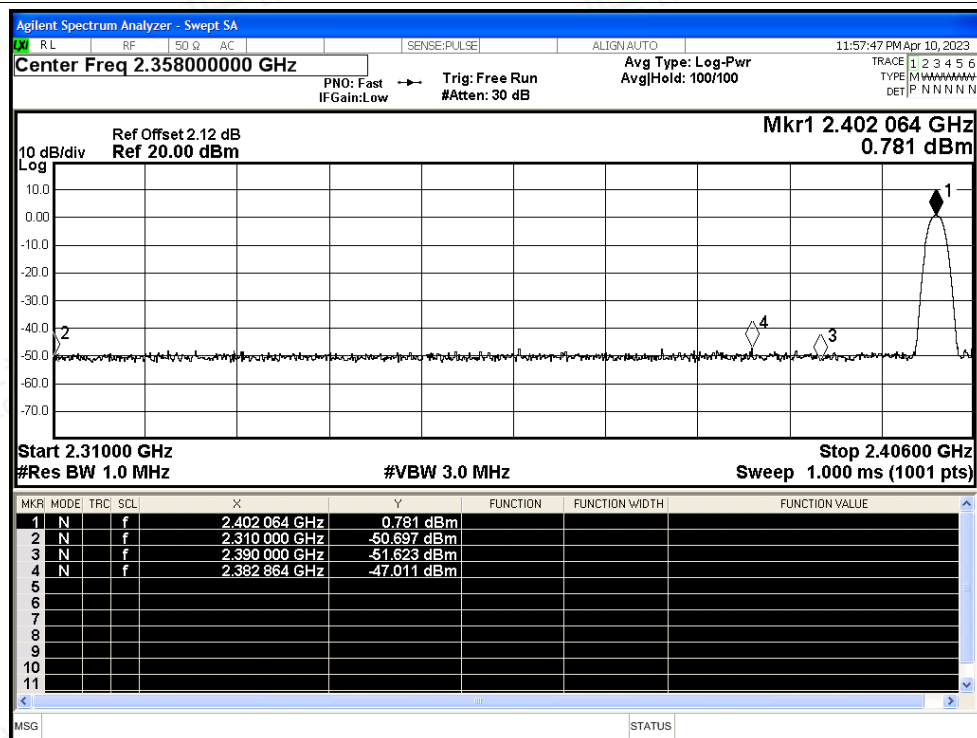
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.7	2	46.56	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.39	2	36.87	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2382.864	-47.01	2	50.25	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.488	-59.79	2	37.47	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.62	2	45.64	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-59.99	2	37.27	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.5	2	47.76	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.45	2	37.81	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2488.264	-47.01	2	50.25	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.56	-59.42	2	37.84	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.95	2	48.31	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.69	2	37.57	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.35	2	46.91	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.47	2	36.79	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2379.984	-48.05	2	49.21	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2366.256	-59.91	2	37.35	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.26	2	47	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.06	2	37.2	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.07	2	48.19	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.3	2	37.96	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2496.736	-46.08	2	51.18	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.608	-59.24	2	38.02	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.4	2	47.86	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.73	2	37.53	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.51	2	45.75	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.35	2	36.91	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2387.856	-47.85	2	49.41	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2385.264	-59.85	2	37.41	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.38	2	46.88	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.07	2	37.19	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.42	2	48.84	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.31	2	37.95	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2487.4	-46.37	2	50.89	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.56	-59.24	2	38.02	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.58	2	46.68	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.65	2	37.61	Average	54	Pass



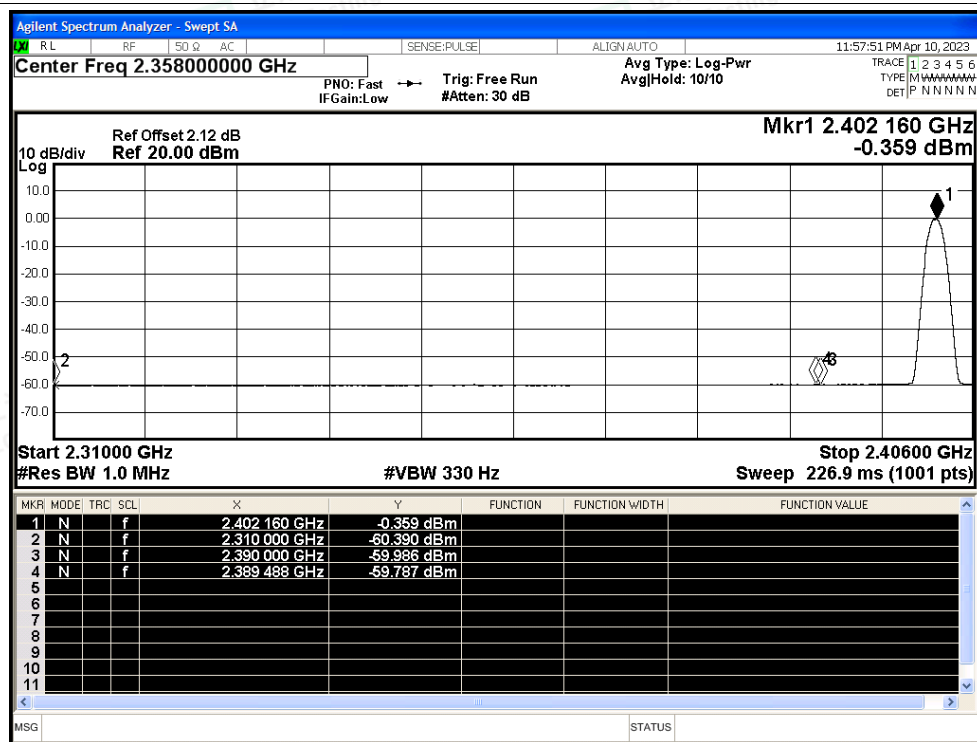


Test Graphs

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

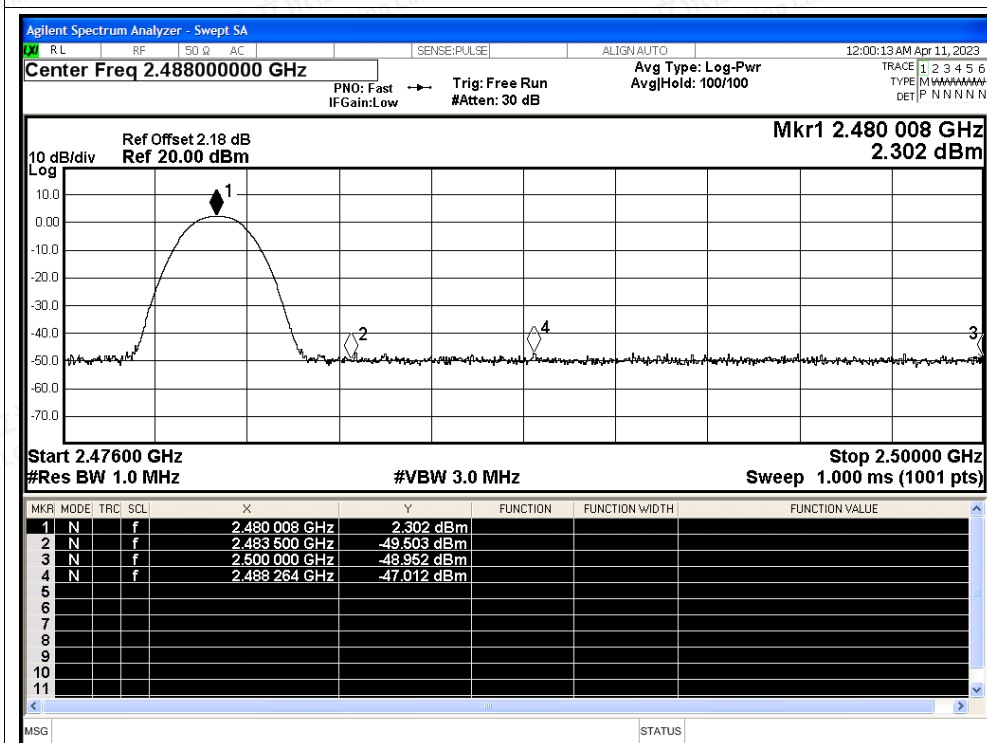


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

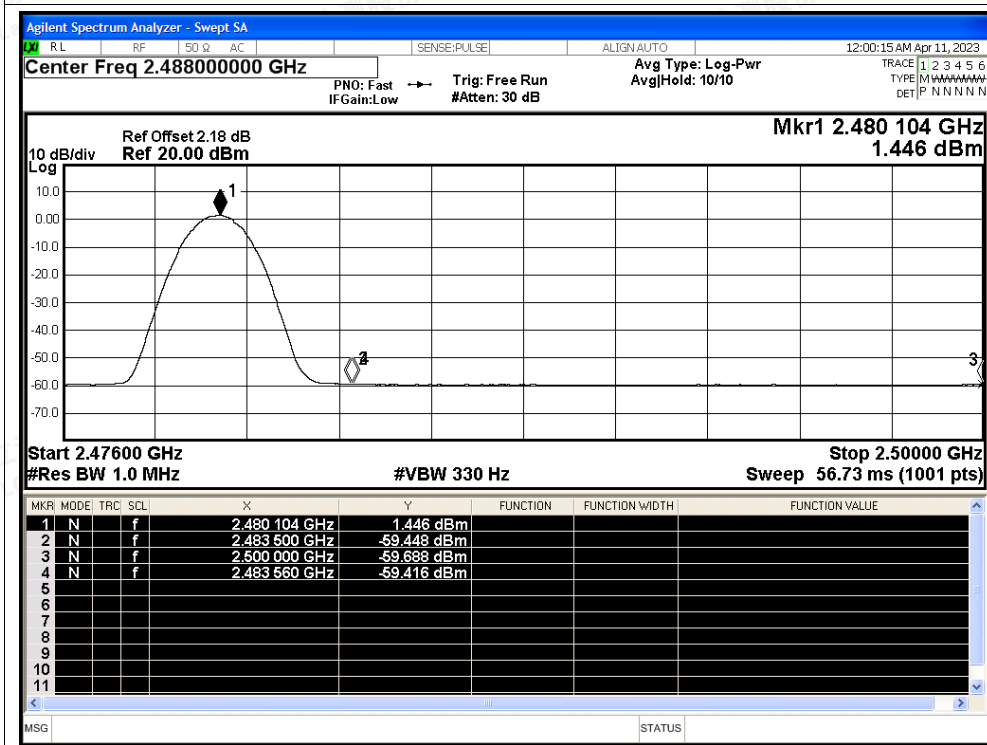




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

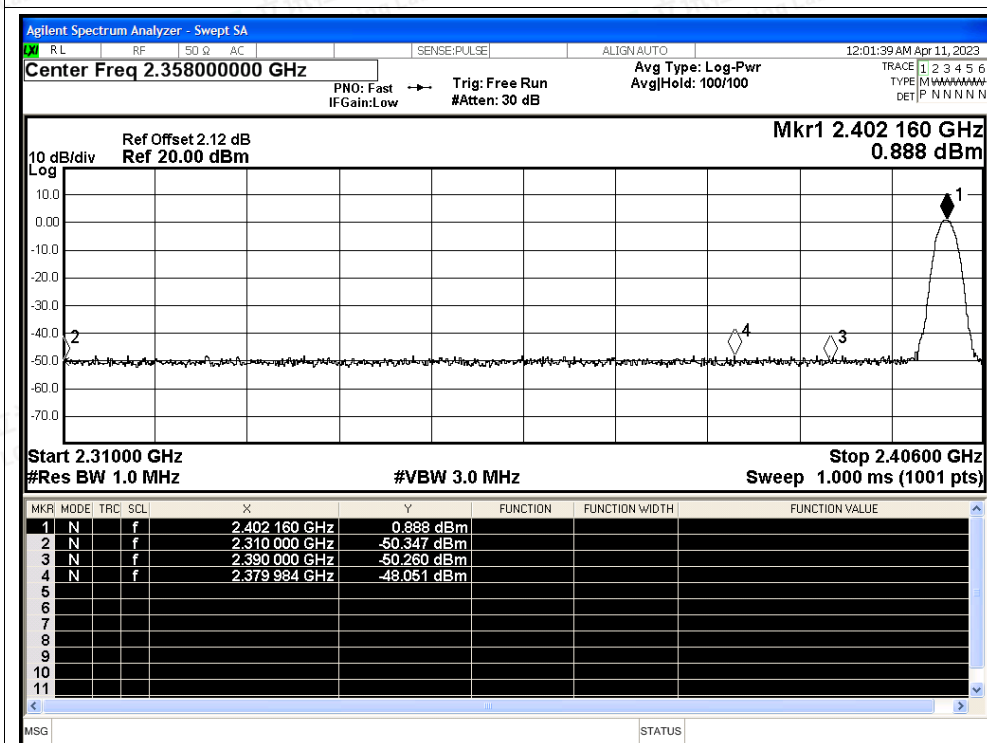
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

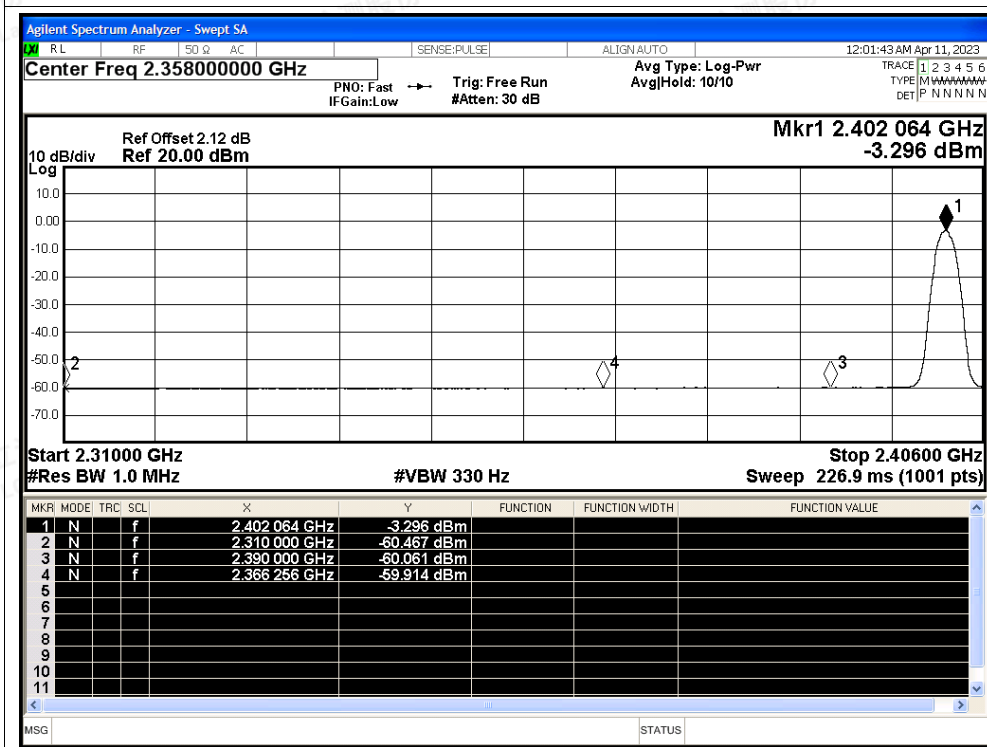
Scan code to check authenticity



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

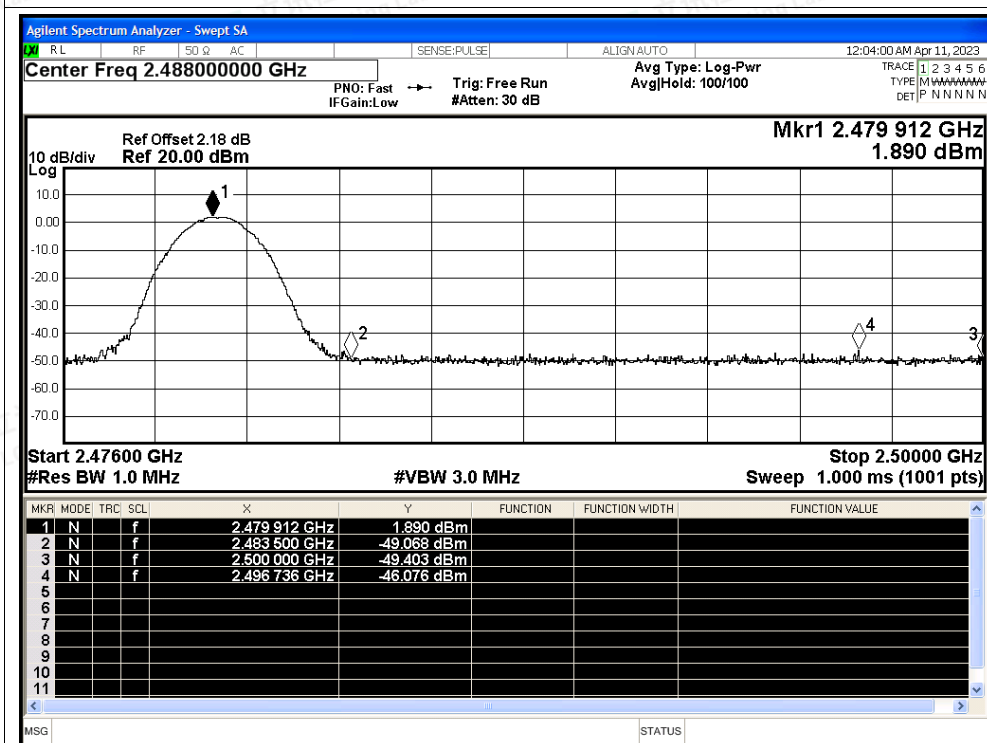


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

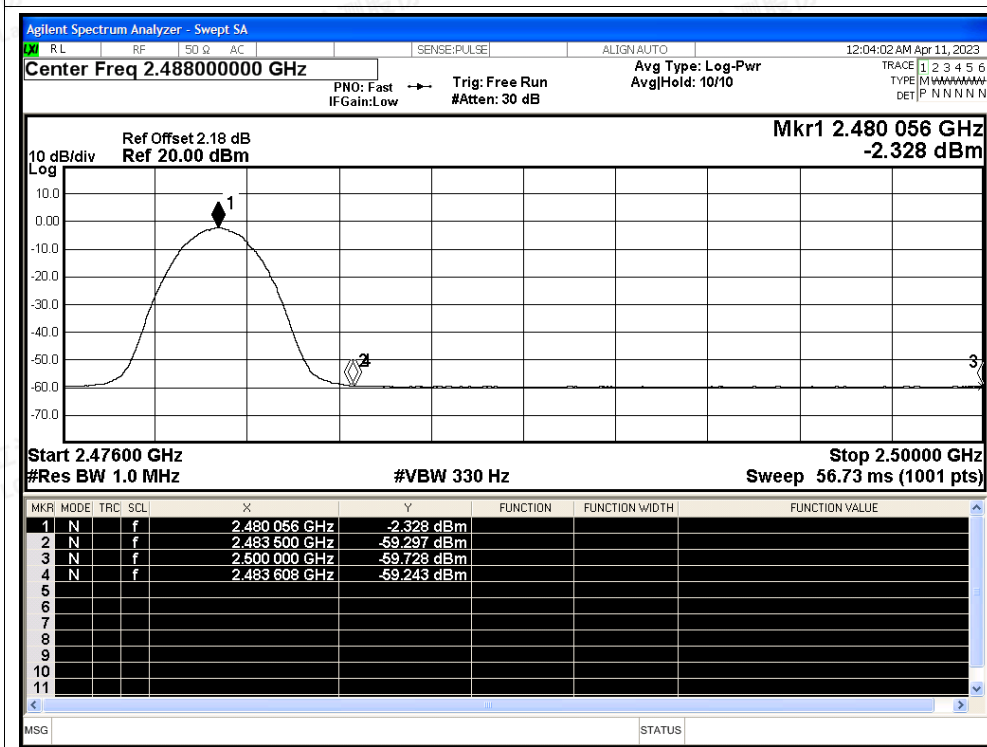




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

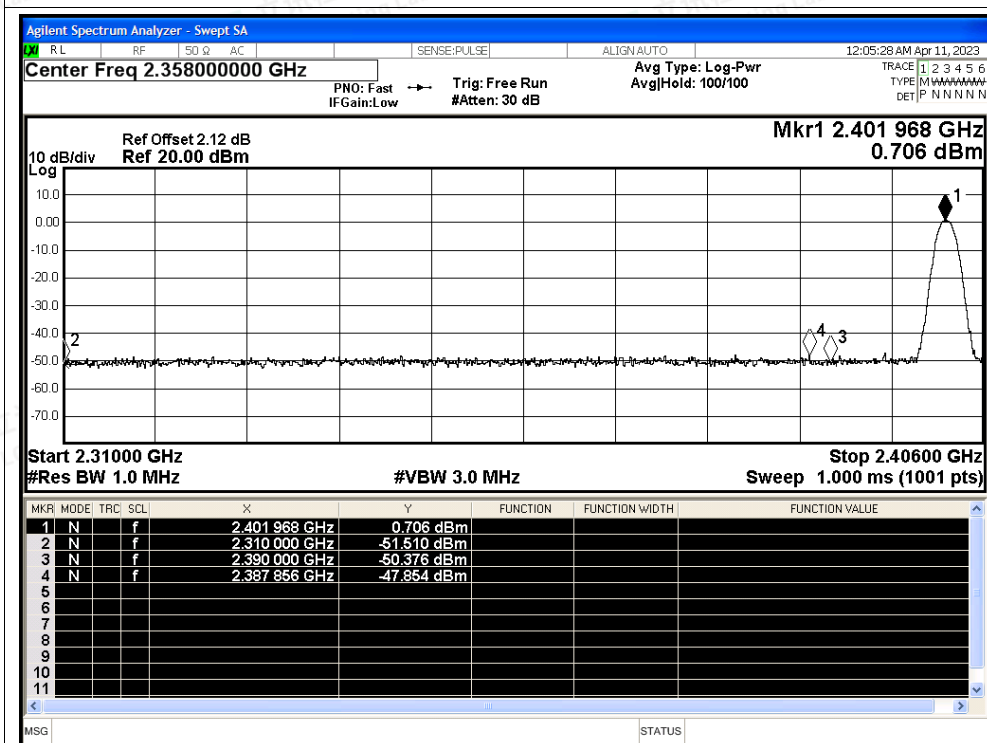


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

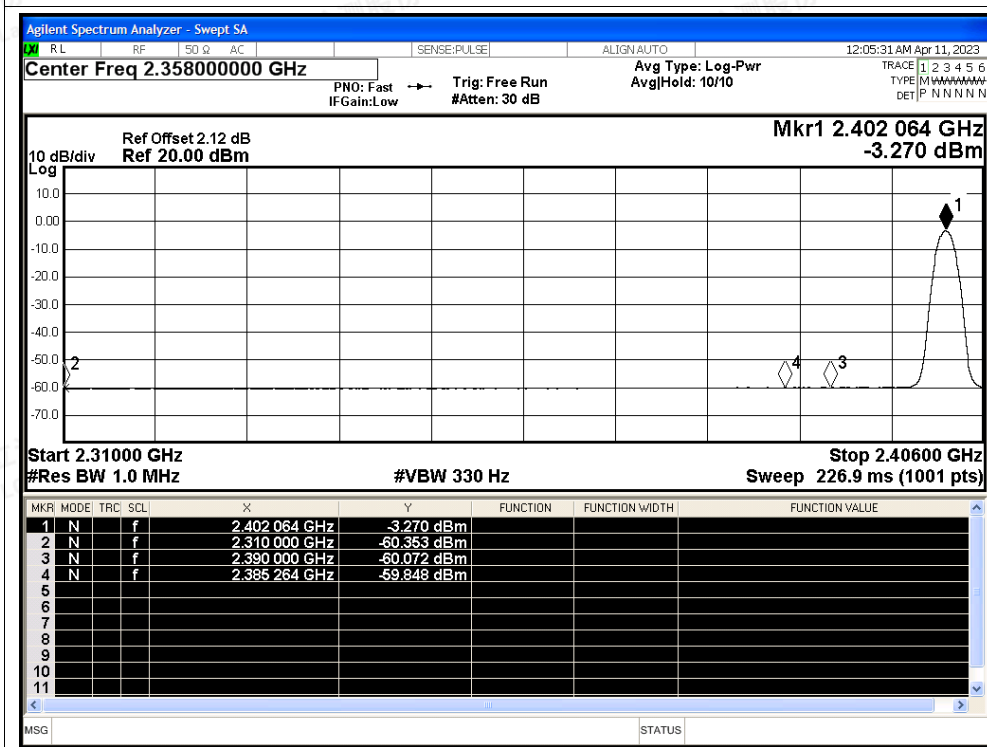




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

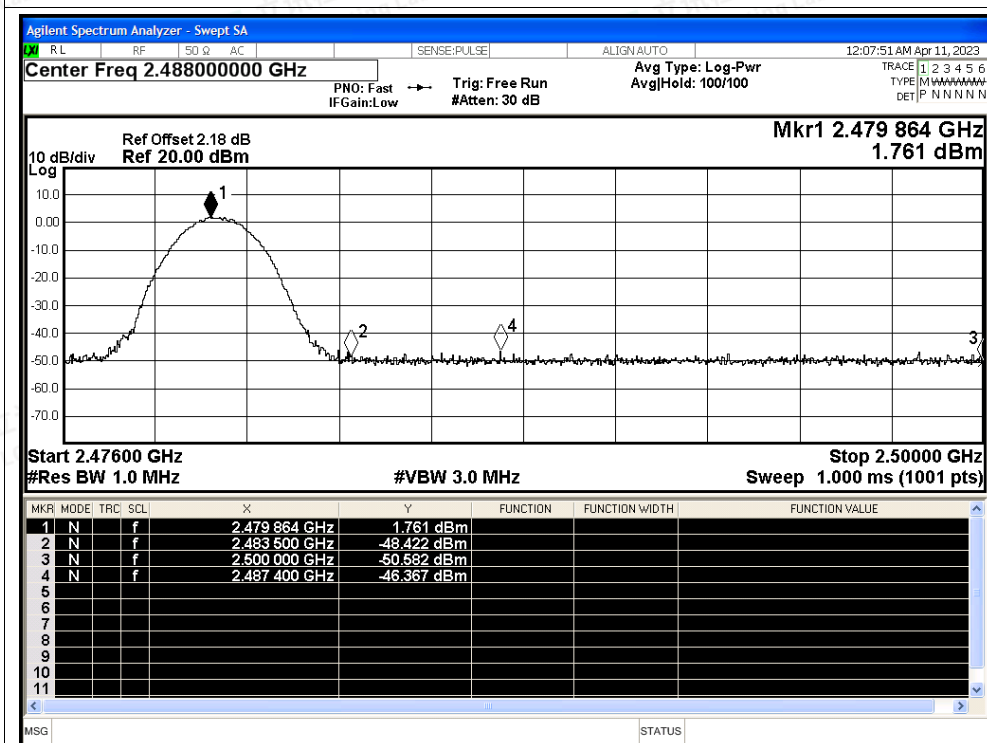


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

