



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart Diagnostic System

Test Model: P902

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Jack Cheng





A.1 -20dB Bandwidth

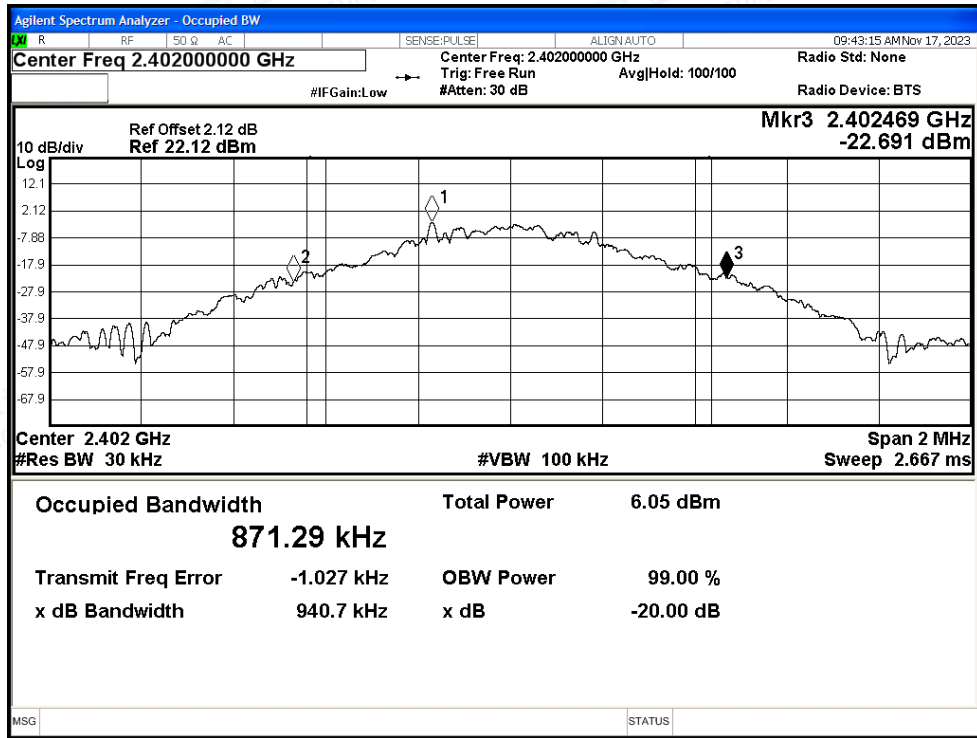
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant0	0.941	N/A	Pass
NVNT	1-DH5	2441	Ant0	1.034	N/A	Pass
NVNT	1-DH5	2480	Ant0	0.953	N/A	Pass
NVNT	2-DH5	2402	Ant0	1.275	N/A	Pass
NVNT	2-DH5	2441	Ant0	1.286	N/A	Pass
NVNT	2-DH5	2480	Ant0	1.282	N/A	Pass
NVNT	3-DH5	2402	Ant0	1.299	N/A	Pass
NVNT	3-DH5	2441	Ant0	1.299	N/A	Pass
NVNT	3-DH5	2480	Ant0	1.306	N/A	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant0

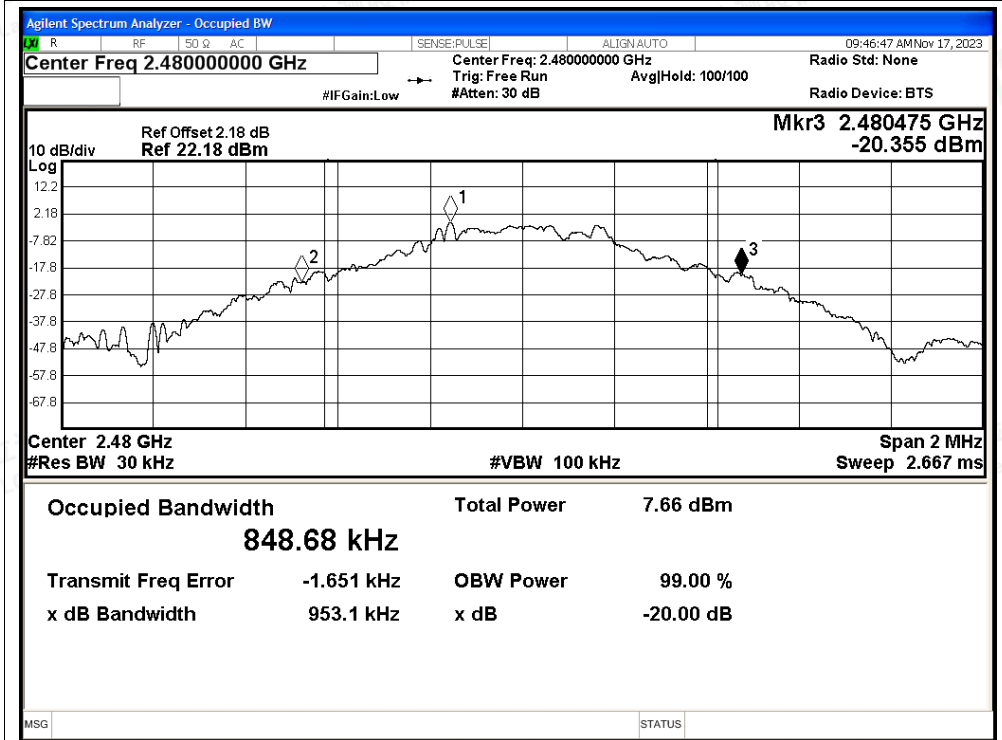


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant0

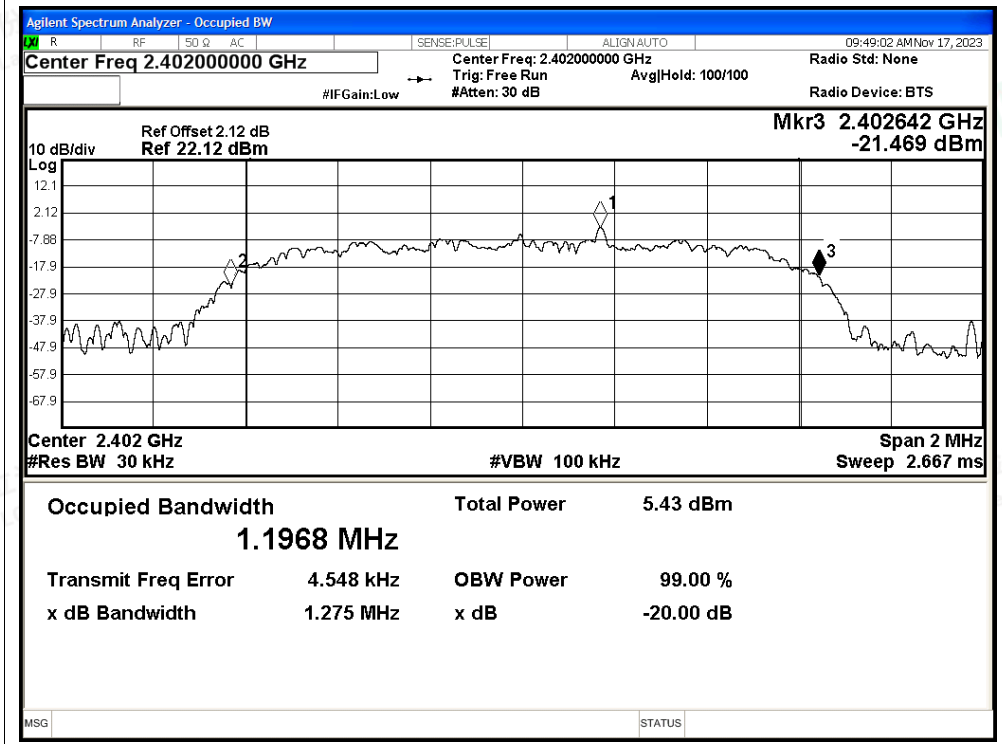




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant0



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant0



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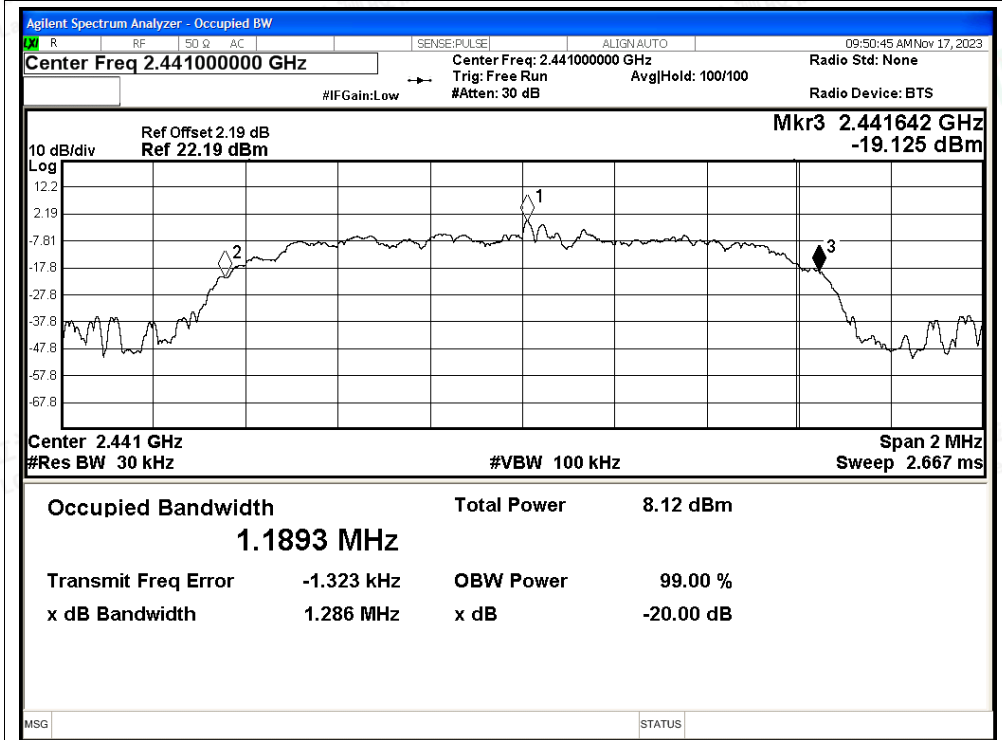
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

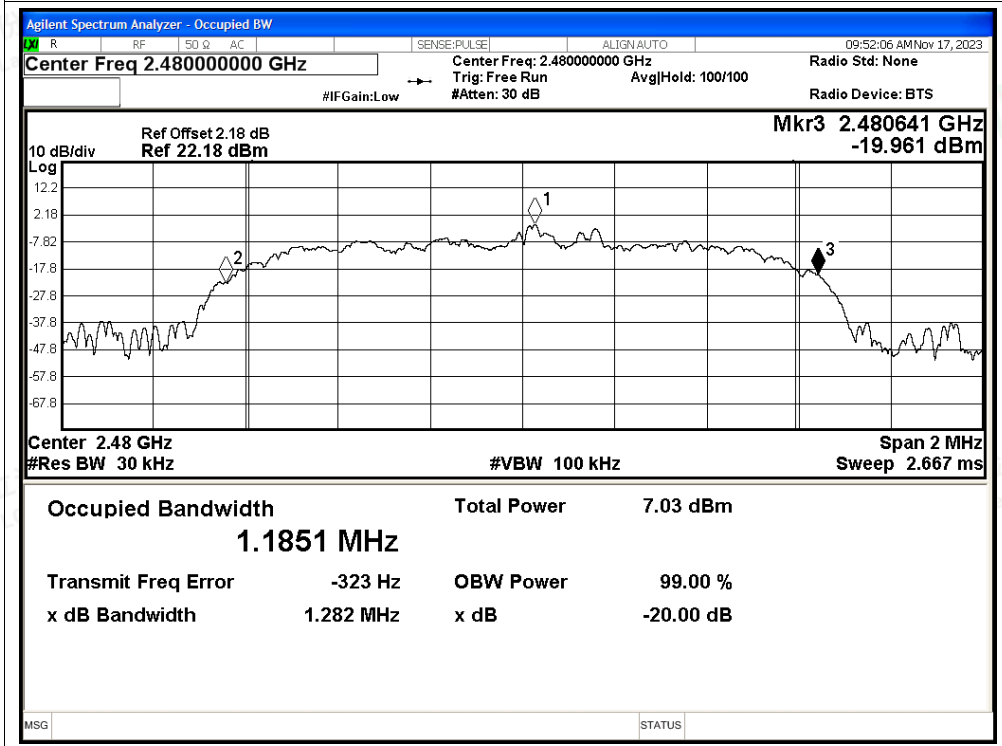
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant0

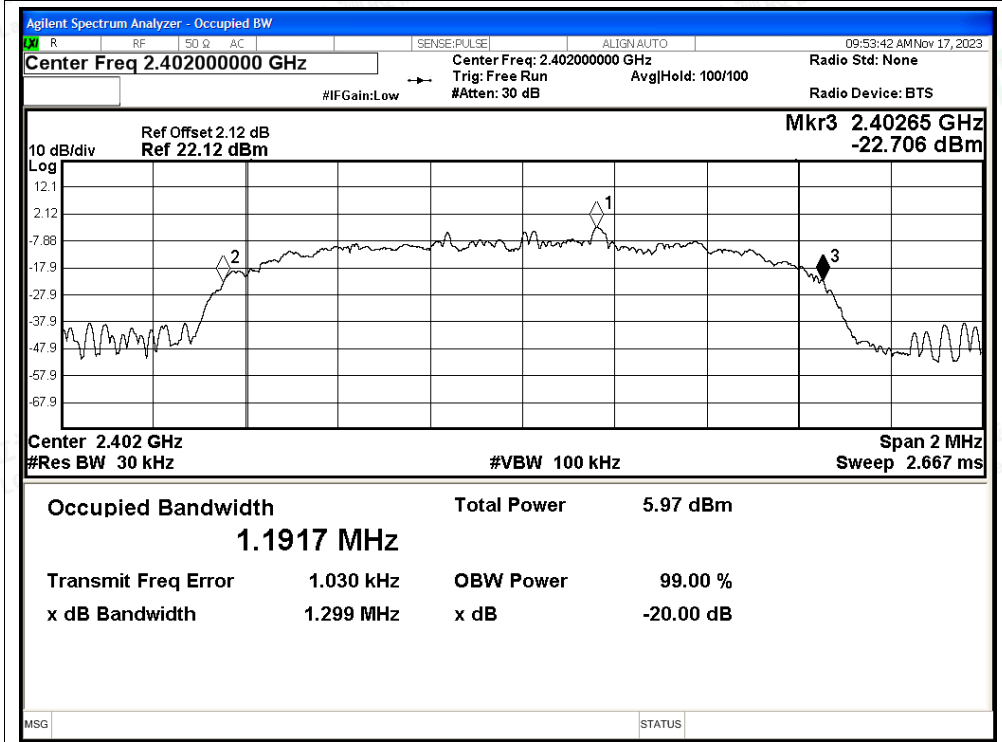


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant0

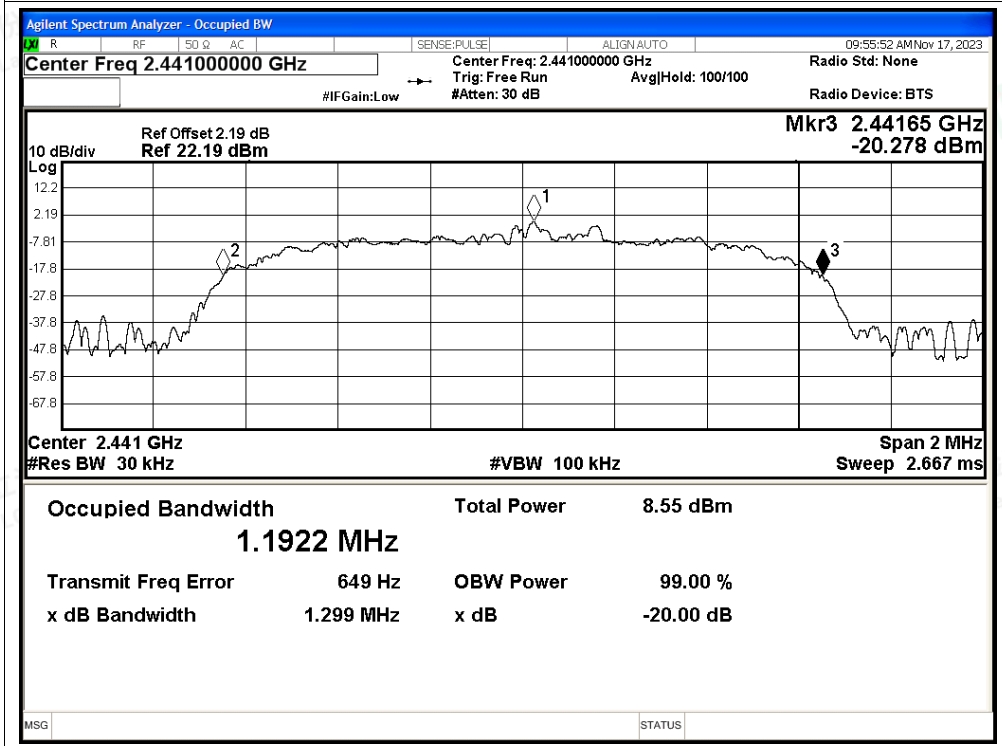


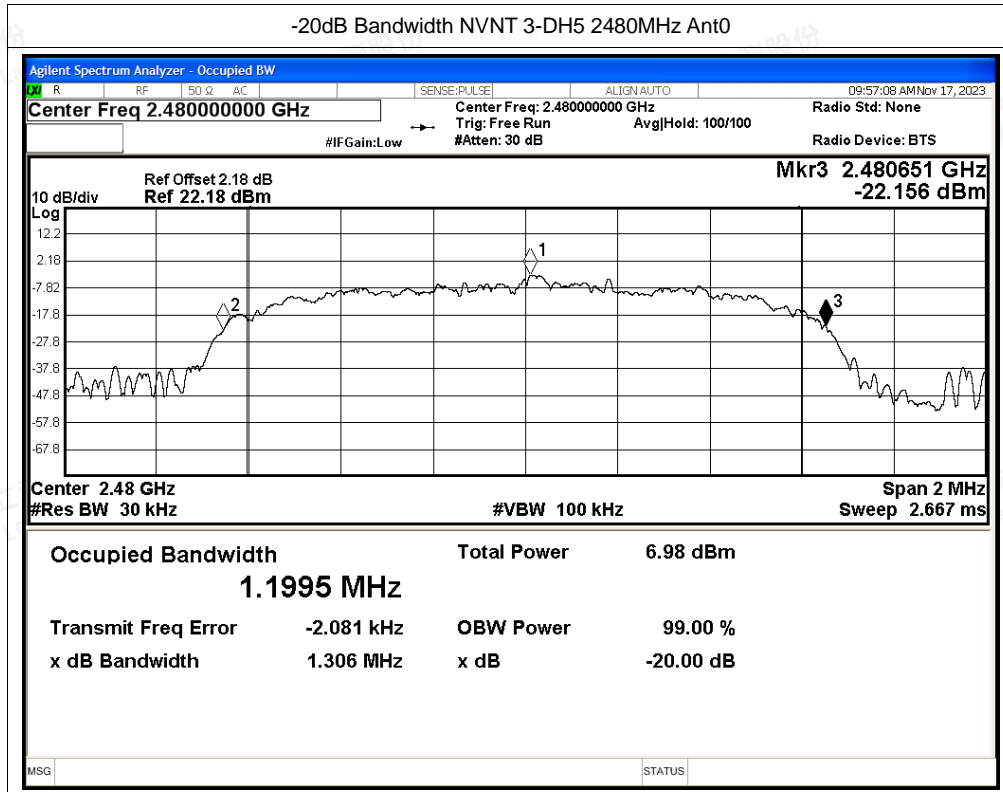


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant0



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant0







A.2 Maximum Peak Conducted Output Power

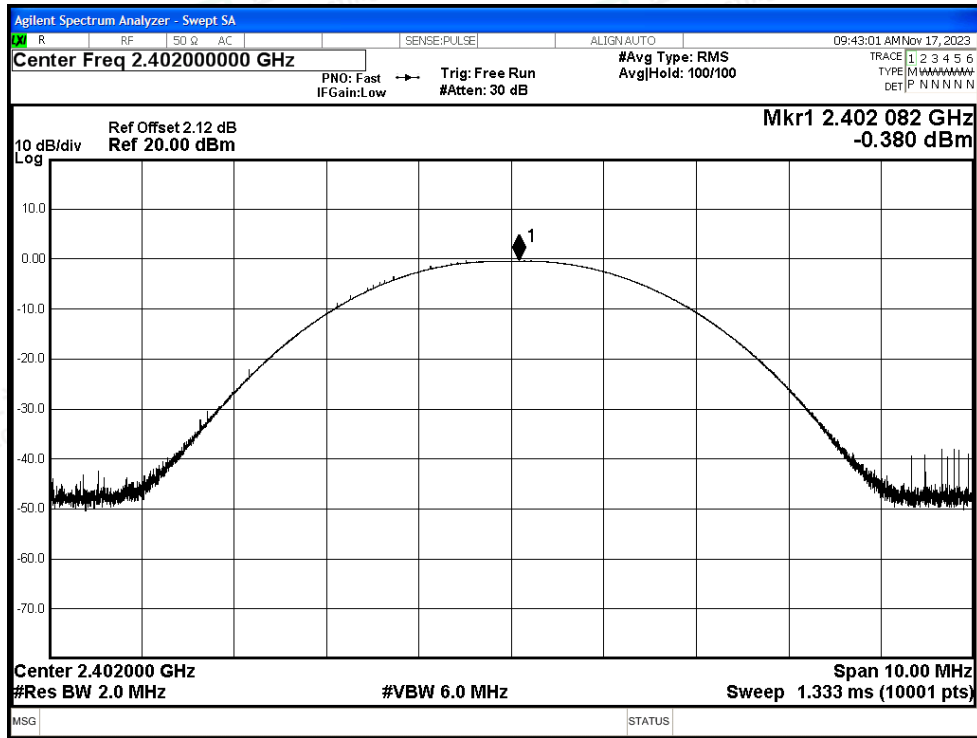
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant0	-0.38	21	Pass
NVNT	1-DH5	2441	Ant0	2.14	21	Pass
NVNT	1-DH5	2480	Ant0	0.68	21	Pass
NVNT	2-DH5	2402	Ant0	1.64	21	Pass
NVNT	2-DH5	2441	Ant0	4	21	Pass
NVNT	2-DH5	2480	Ant0	2.52	21	Pass
NVNT	3-DH5	2402	Ant0	2.05	21	Pass
NVNT	3-DH5	2441	Ant0	4.33	21	Pass
NVNT	3-DH5	2480	Ant0	2.76	21	Pass



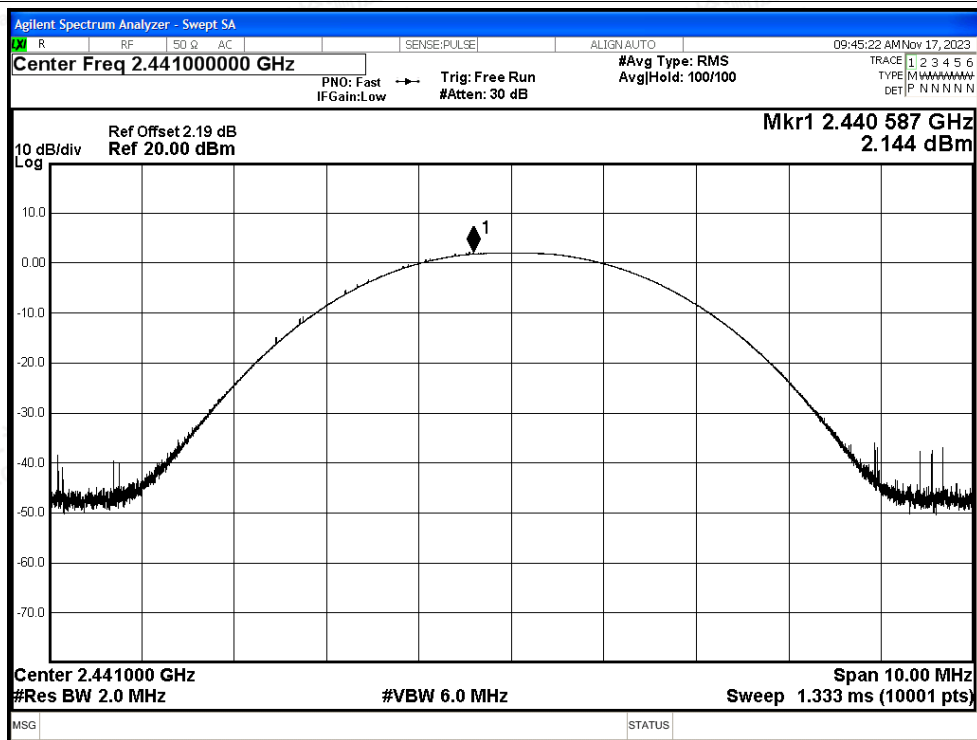


Test Graphs

Power NVNT 1-DH5 2402MHz Ant0

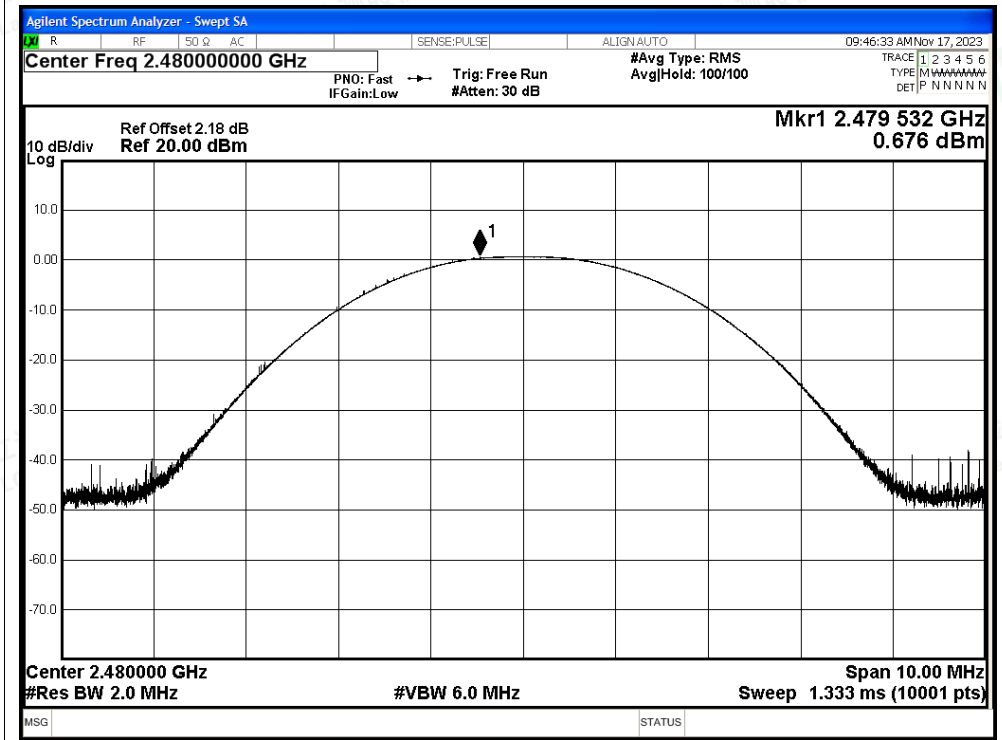


Power NVNT 1-DH5 2441MHz Ant0

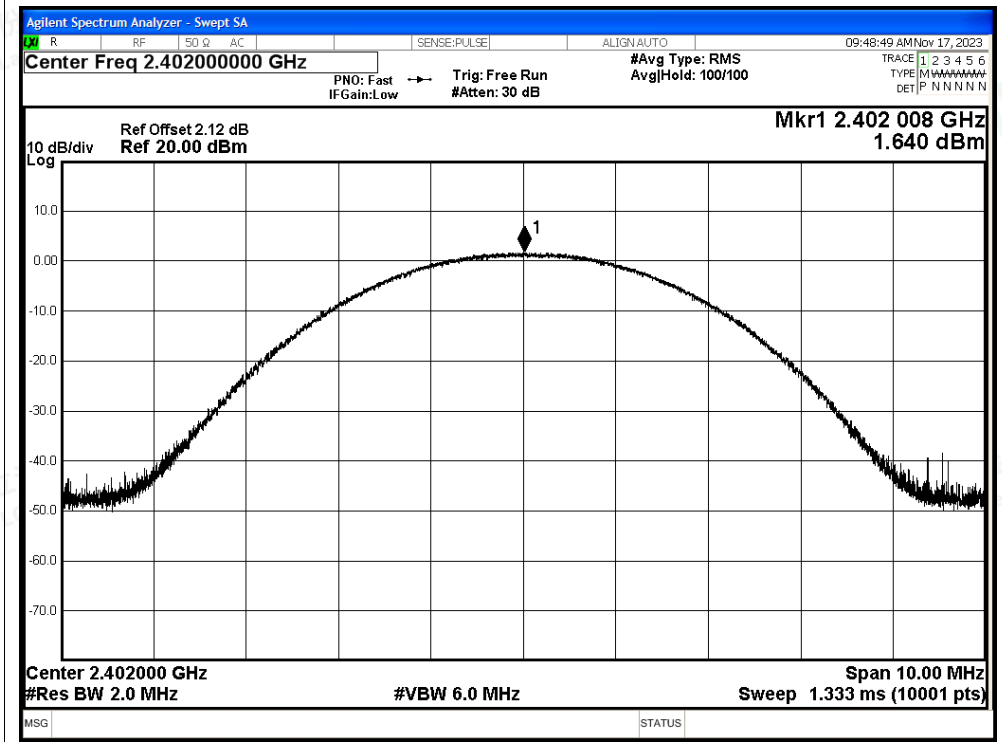




Power NVNT 1-DH5 2480MHz Ant0

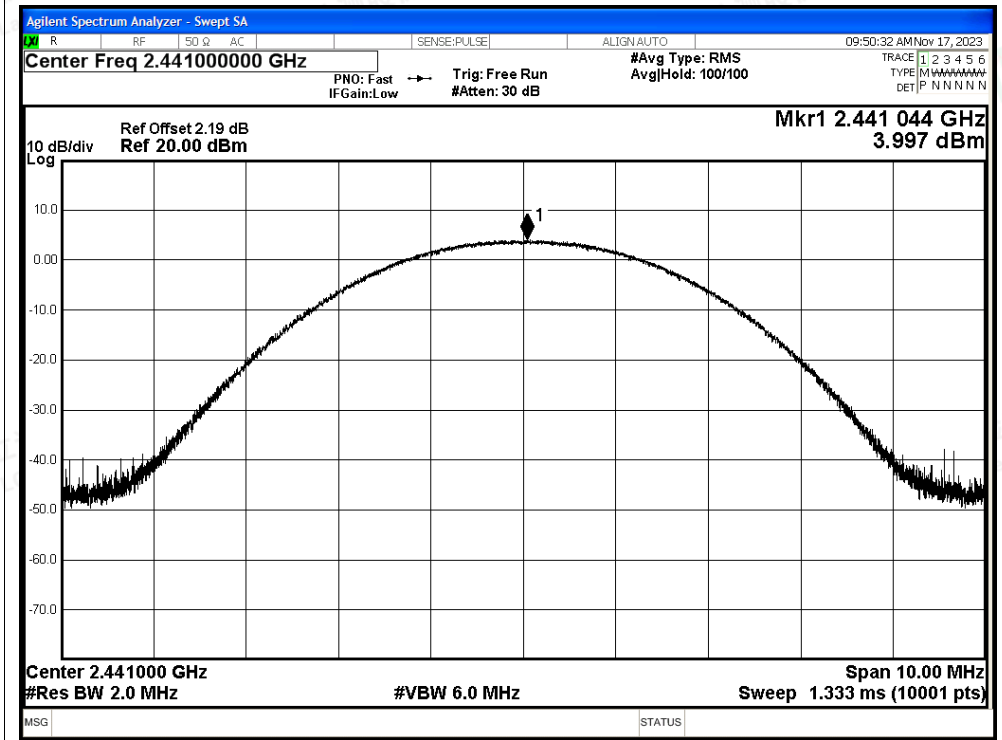


Power NVNT 2-DH5 2402MHz Ant0

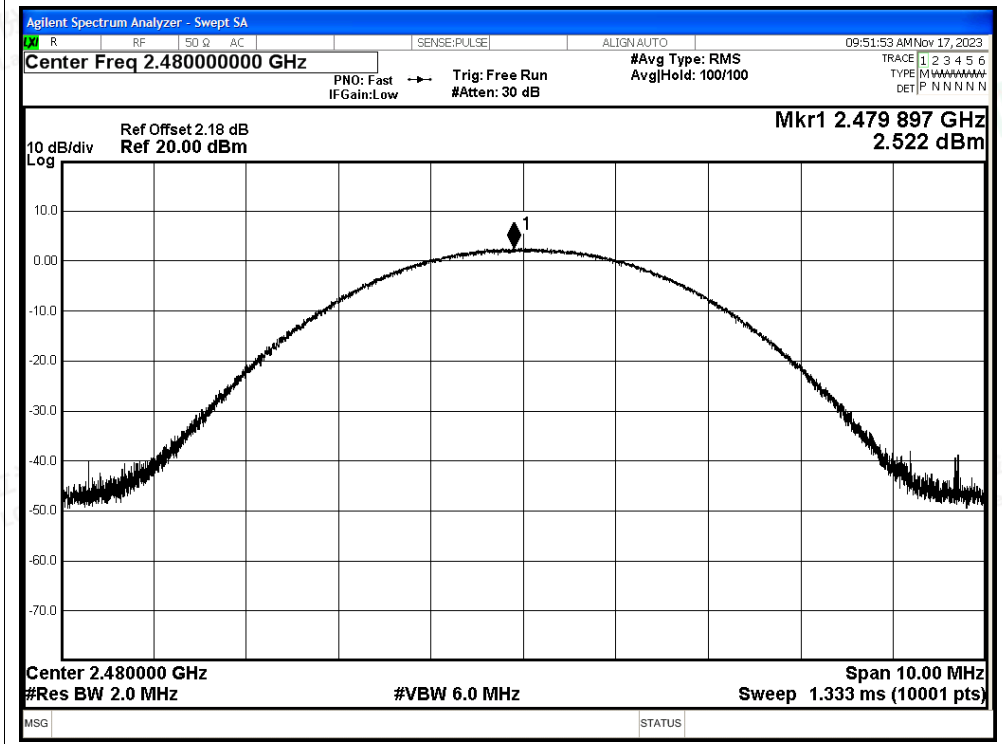




Power NVNT 2-DH5 2441MHz Ant0

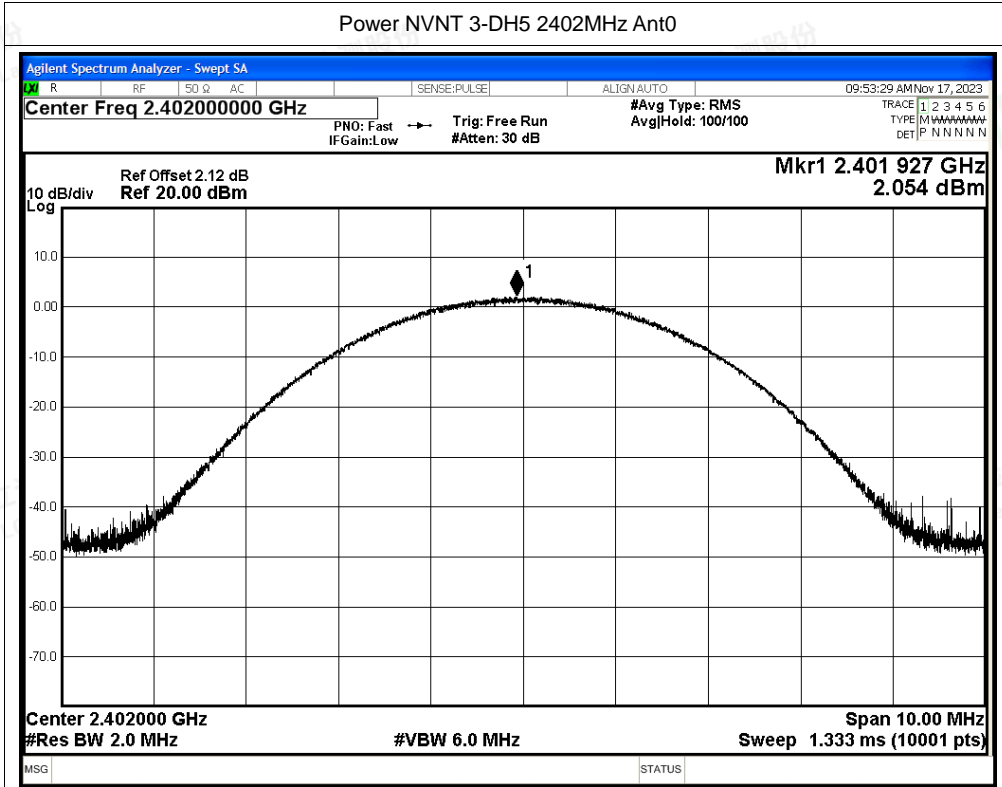


Power NVNT 2-DH5 2480MHz Ant0

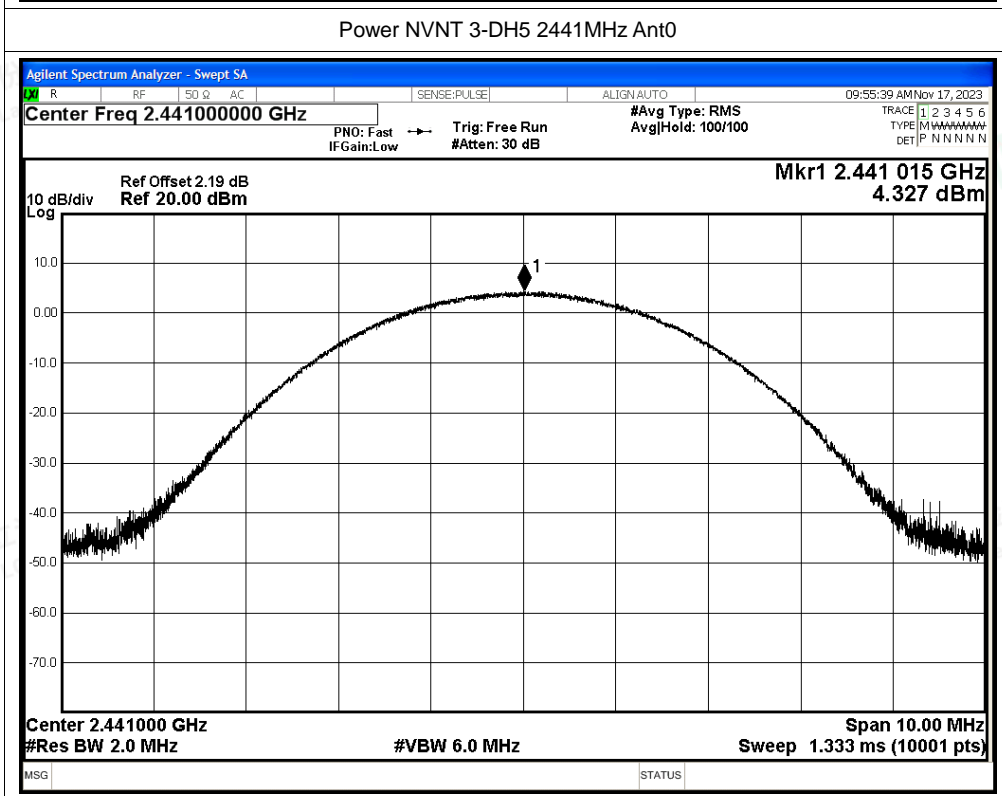


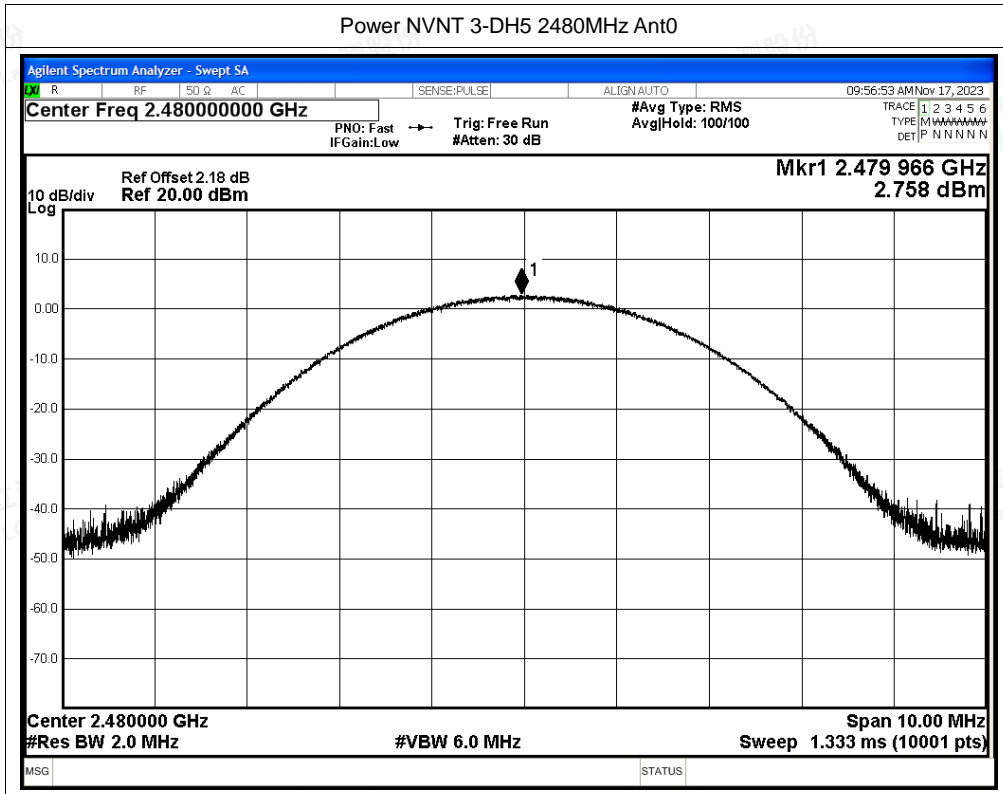


Power NVNT 3-DH5 2402MHz Ant0



Power NVNT 3-DH5 2441MHz Ant0







A.3 Carrier Frequencies Separation

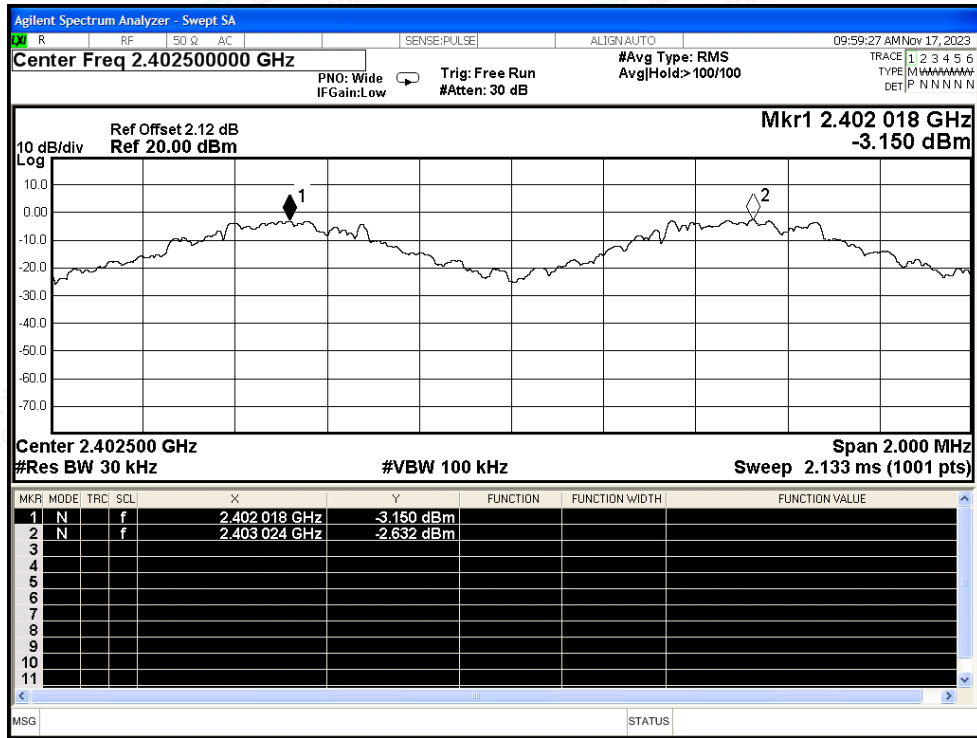
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant0	2402.018	2403.024	1.006	0.689	Pass
NVNT	2-DH5	Ant0	2402.028	2403.174	1.146	0.857	Pass
NVNT	3-DH5	Ant0	2402.018	2403.166	1.148	0.871	Pass



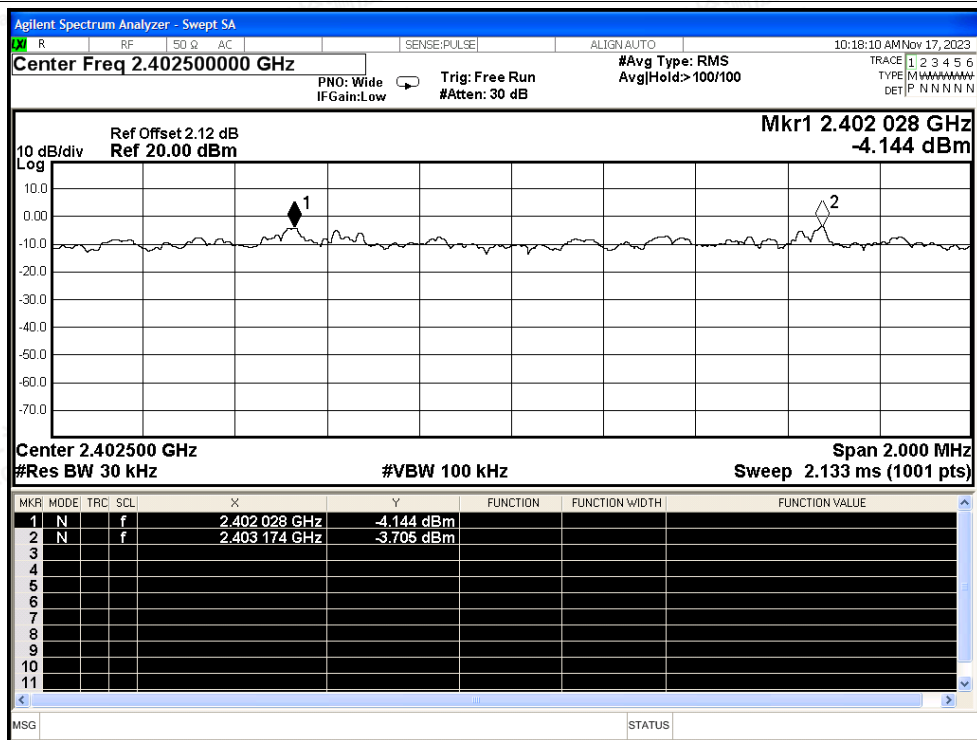


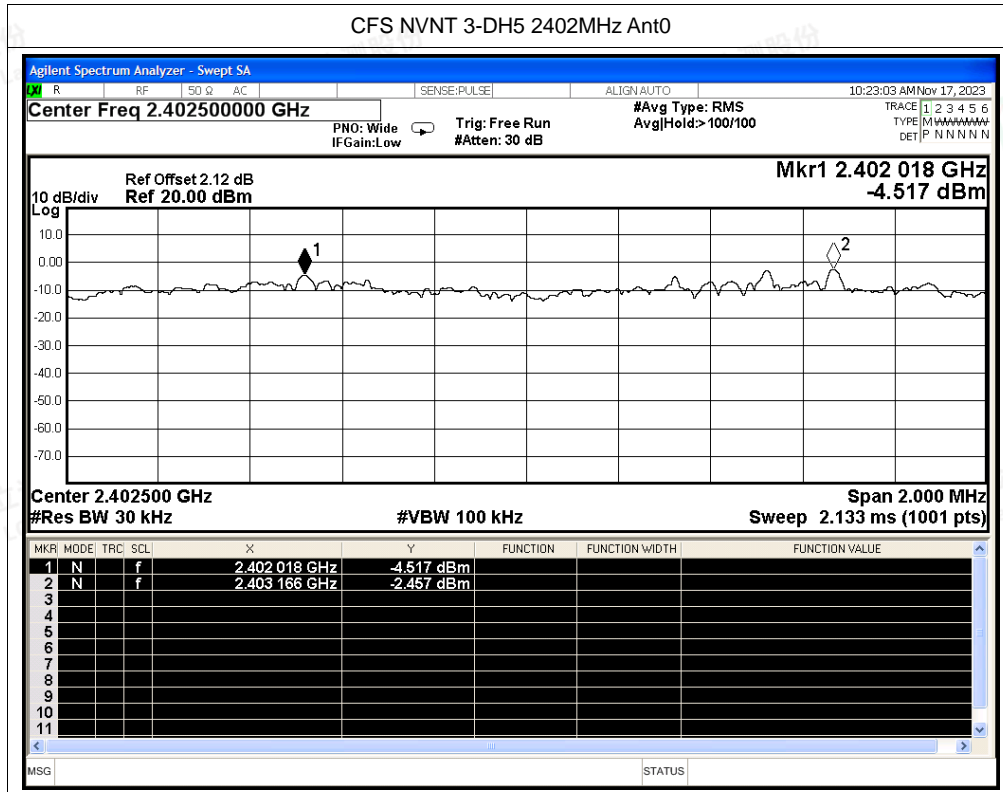
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant0



CFS NVNT 2-DH5 2402MHz Ant0







A.4 Dwell Time

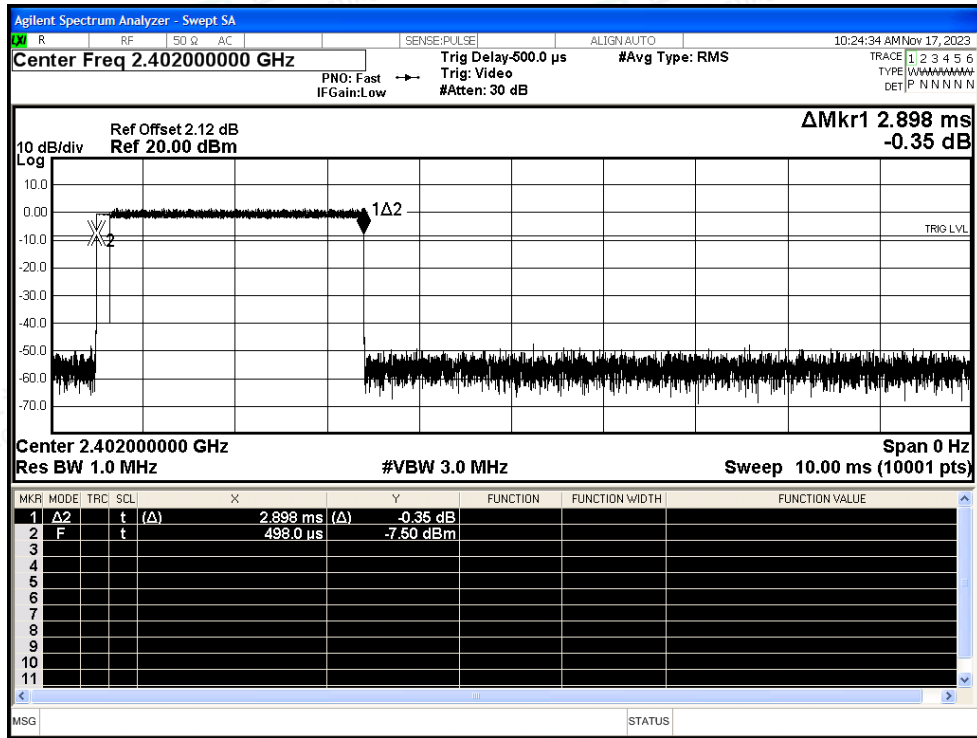
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant0	2.898	249.228	86	31600	400	Pass
NVNT	2-DH5	2402	Ant0	2.898	266.616	92	31600	400	Pass
NVNT	3-DH5	2402	Ant0	2.898	269.514	93	31600	400	Pass



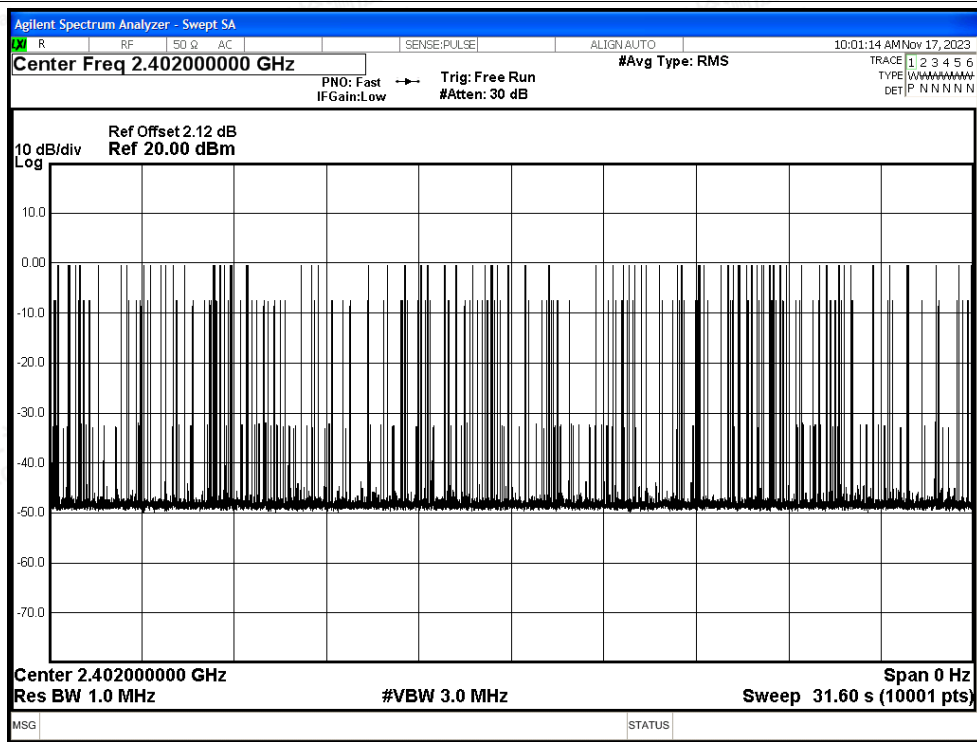


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant0 One Burst



Dwell NVNT 1-DH5 2402MHz Ant0 Accumulated



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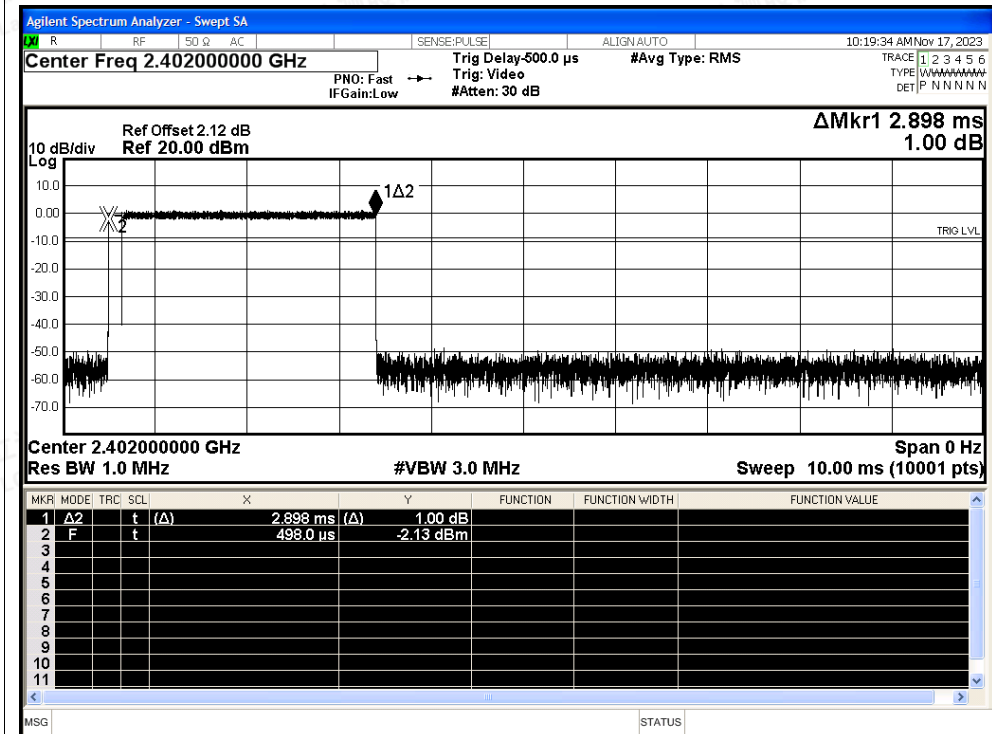
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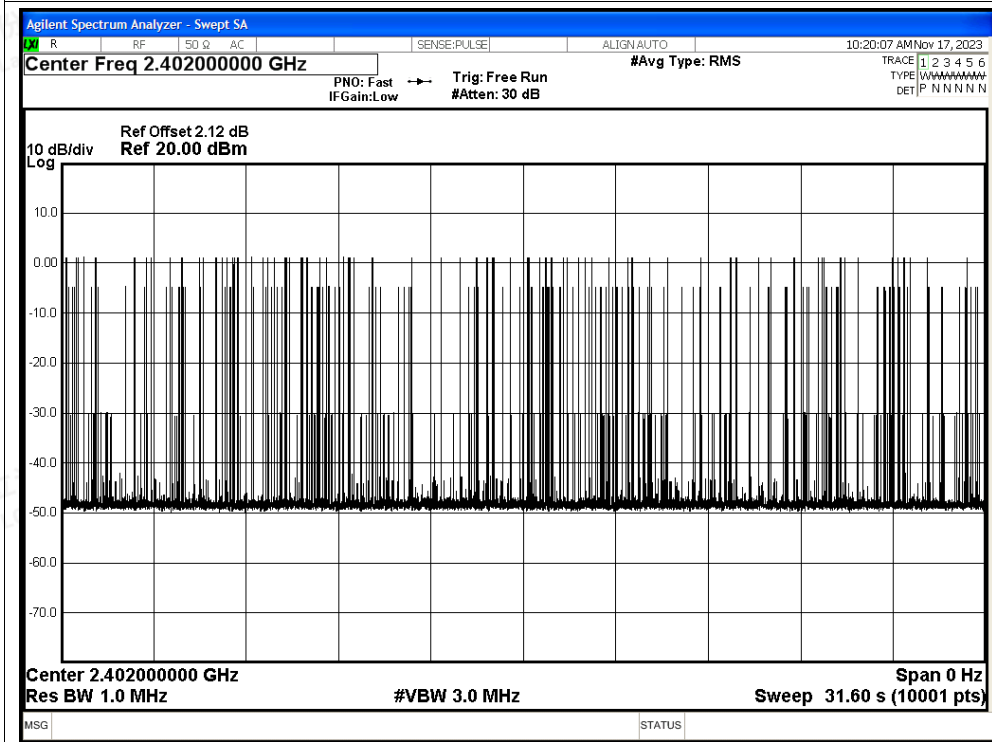
Scan code to check authenticity



Dwell NVNT 2-DH5 2402MHz Ant0 One Burst

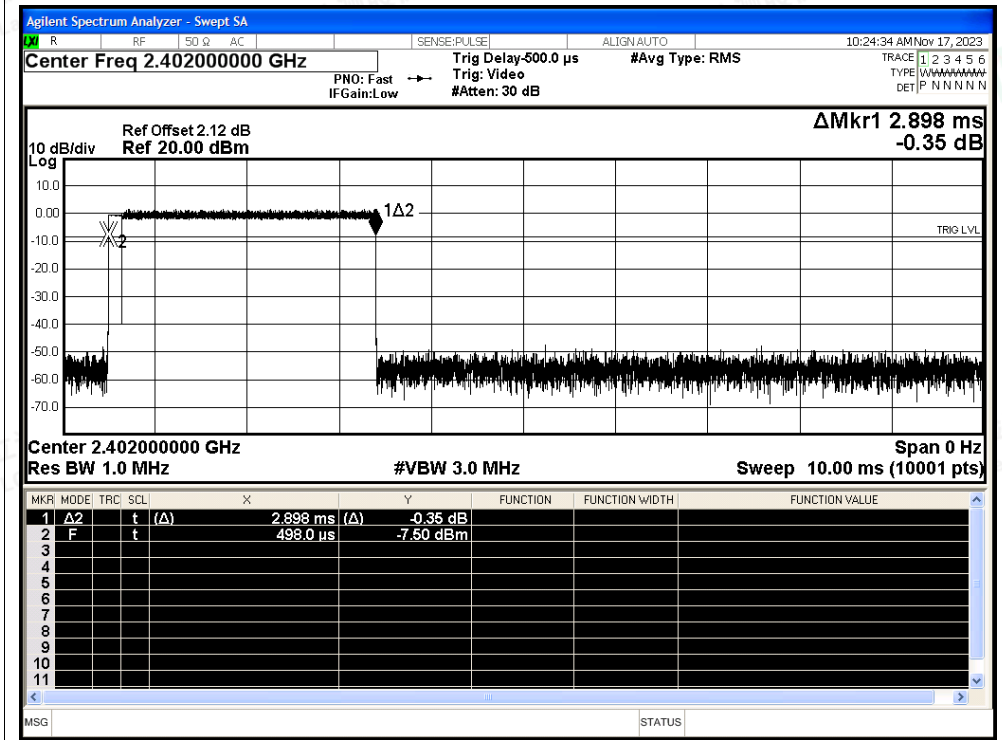


Dwell NVNT 2-DH5 2402MHz Ant0 Accumulated

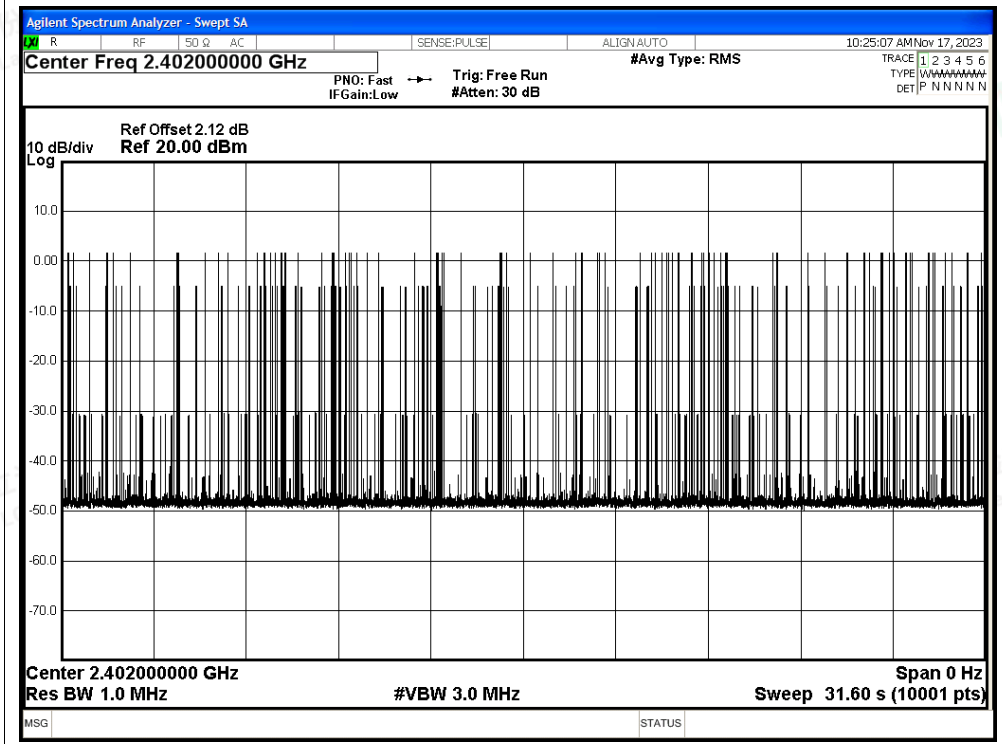




Dwell NVNT 3-DH5 2402MHz Ant0 One Burst



Dwell NVNT 3-DH5 2402MHz Ant0 Accumulated





A.5 Number of Hopping Channel

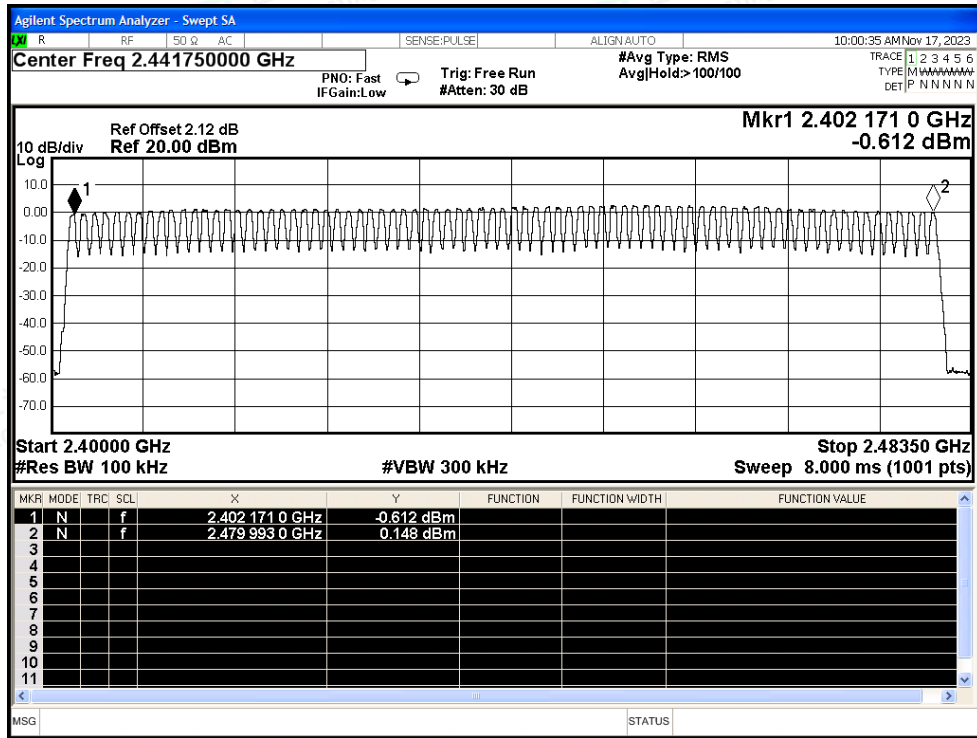
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant0	79	15	Pass
NVNT	2-DH5	Ant0	79	15	Pass
NVNT	3-DH5	Ant0	79	15	Pass



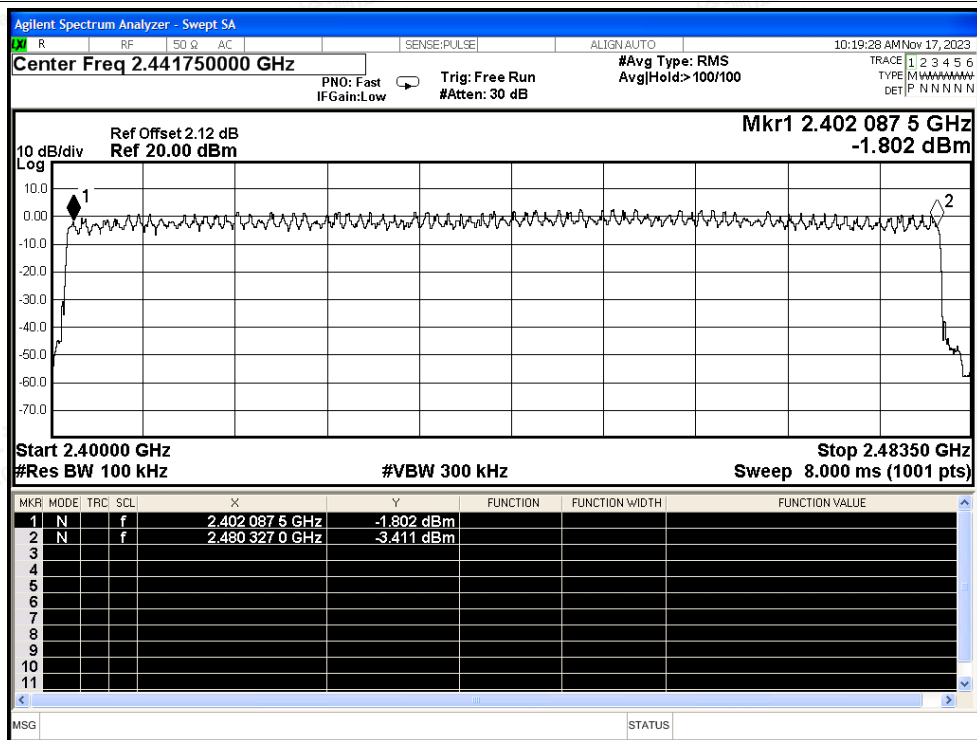


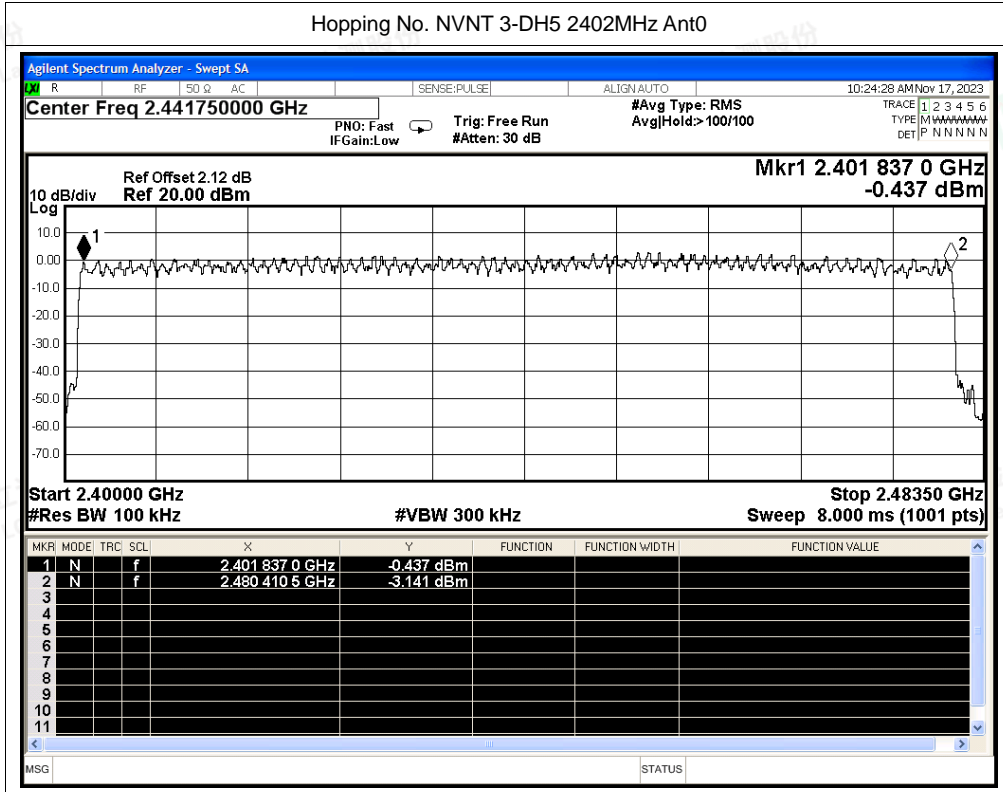
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant0



Hopping No. NVNT 2-DH5 2402MHz Ant0







A.6 Band Edge

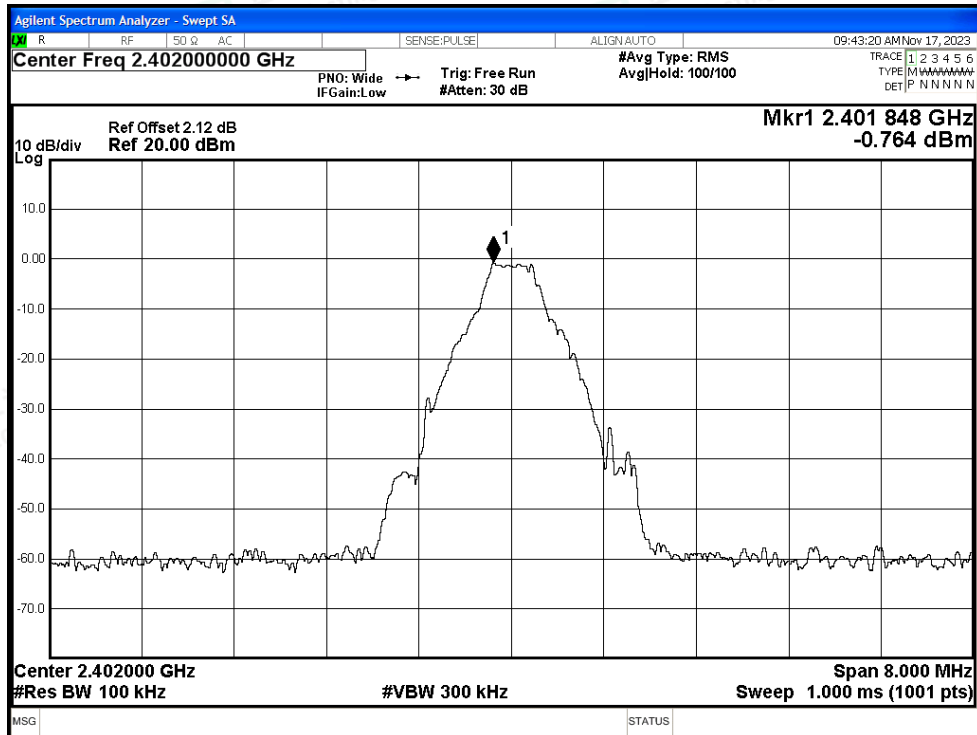
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	No-Hopping	-55.19	-20	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	-58.21	-20	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	-51.93	-20	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	-56.56	-20	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	-49.01	-20	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	-55.21	-20	Pass



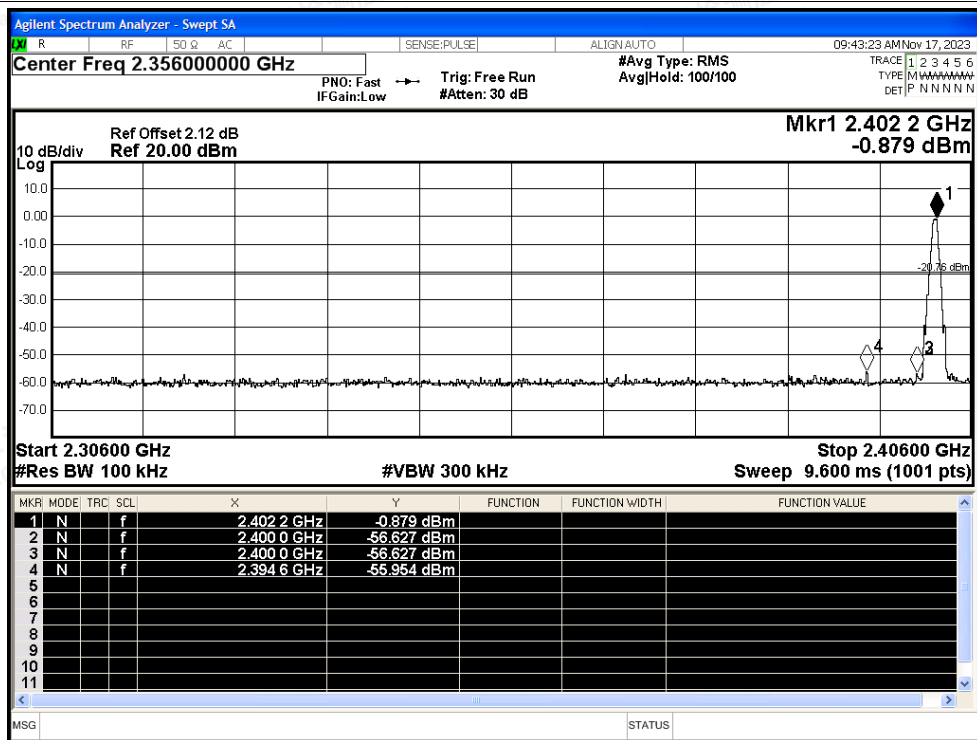


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Ref

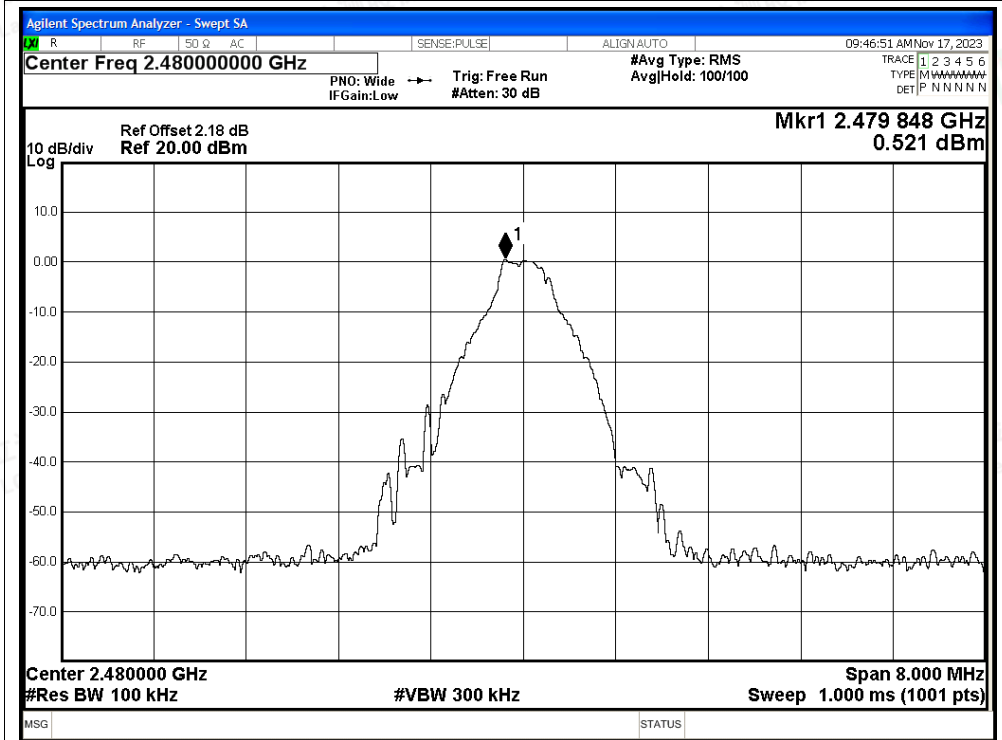


Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Emission

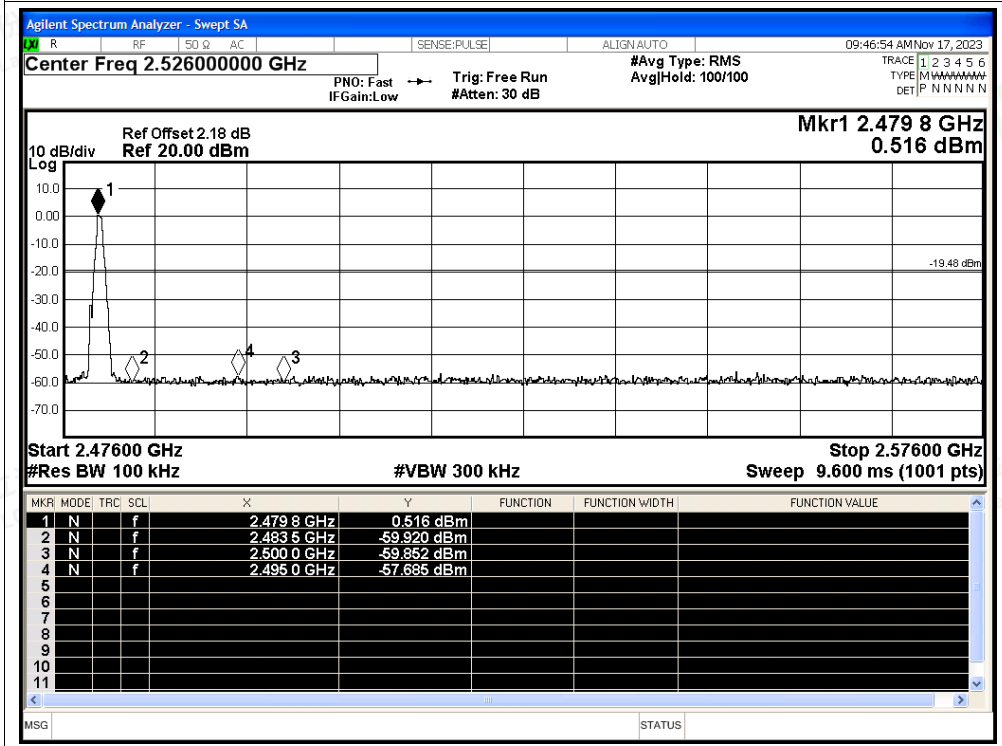




Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Ref



Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Emission



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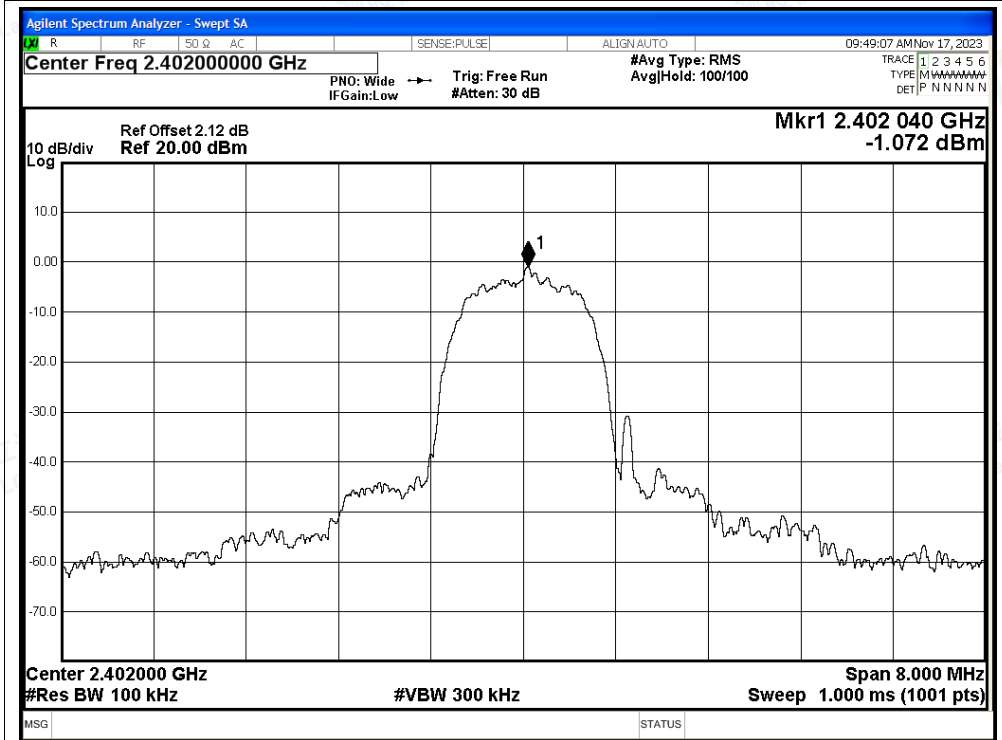
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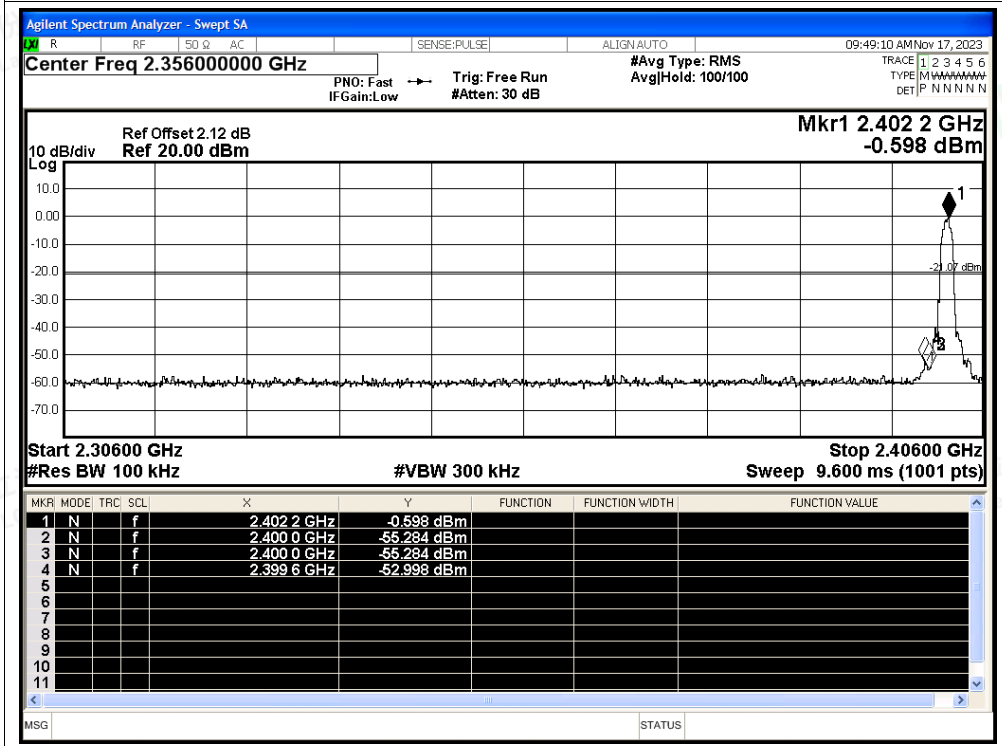
Scan code to check authenticity



Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Ref

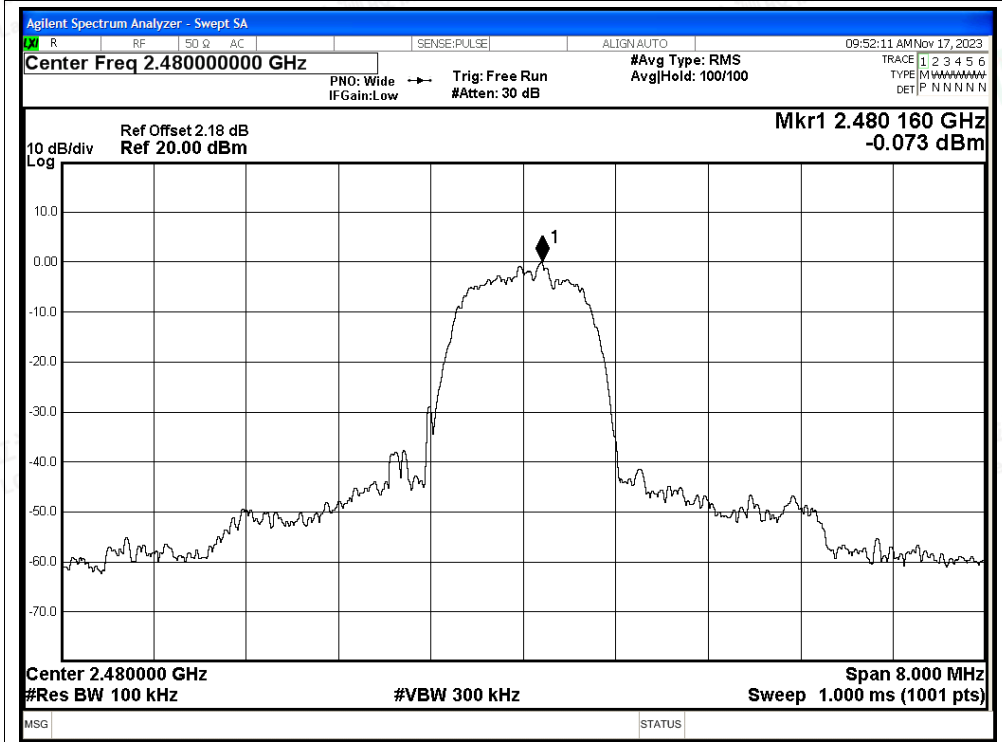


Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Emission

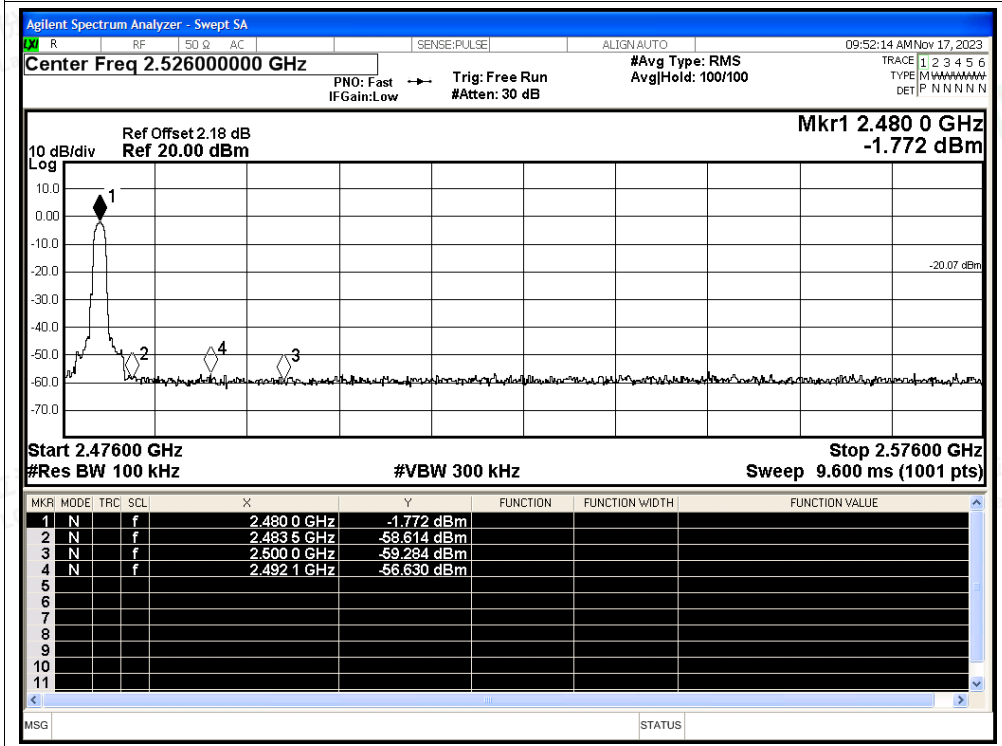




Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

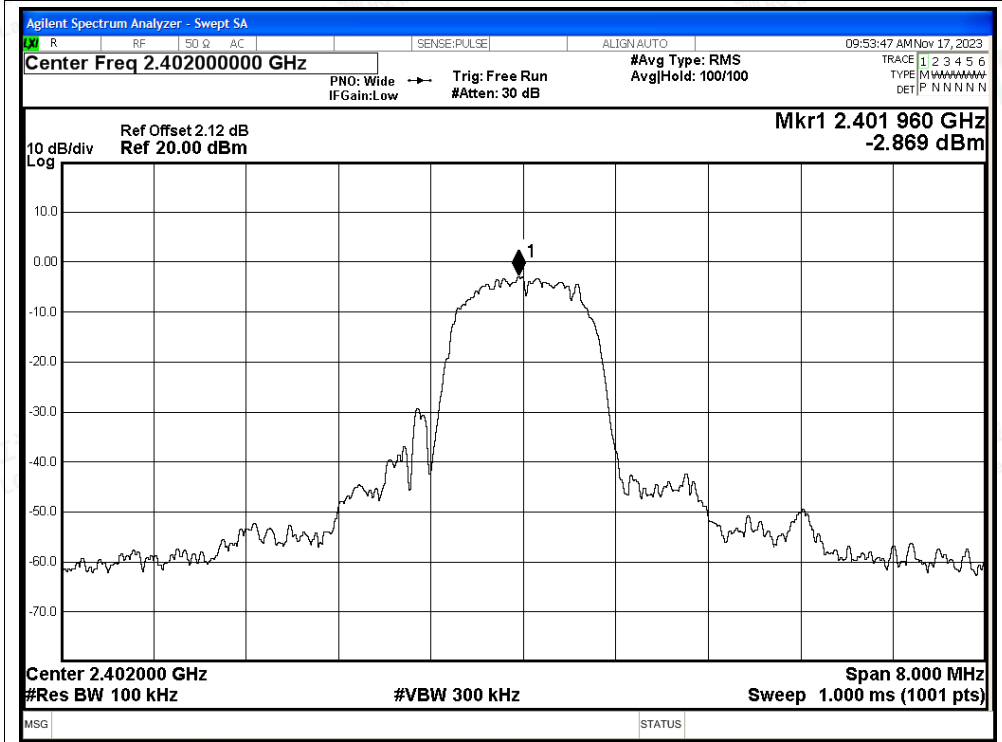
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

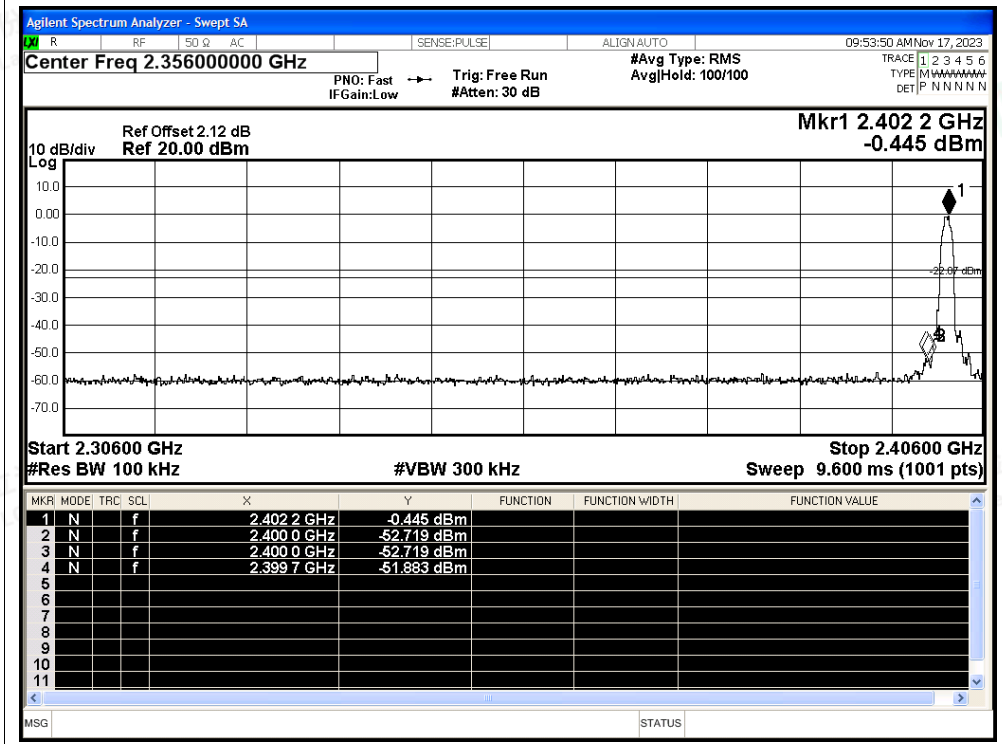
Scan code to check authenticity



Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Ref

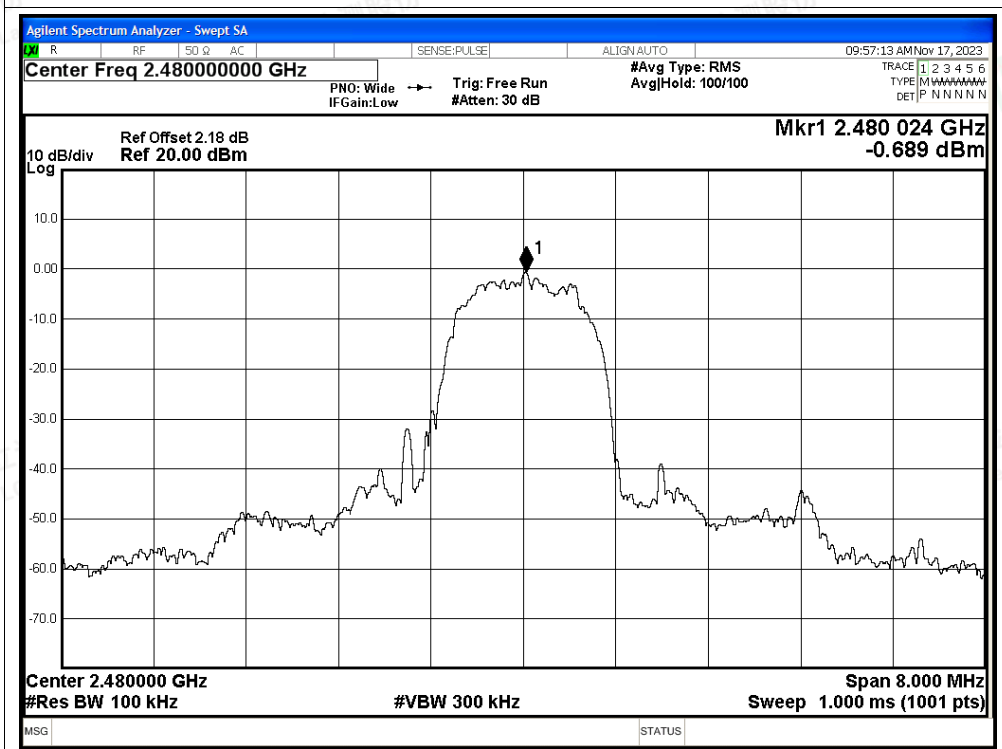


Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Emission

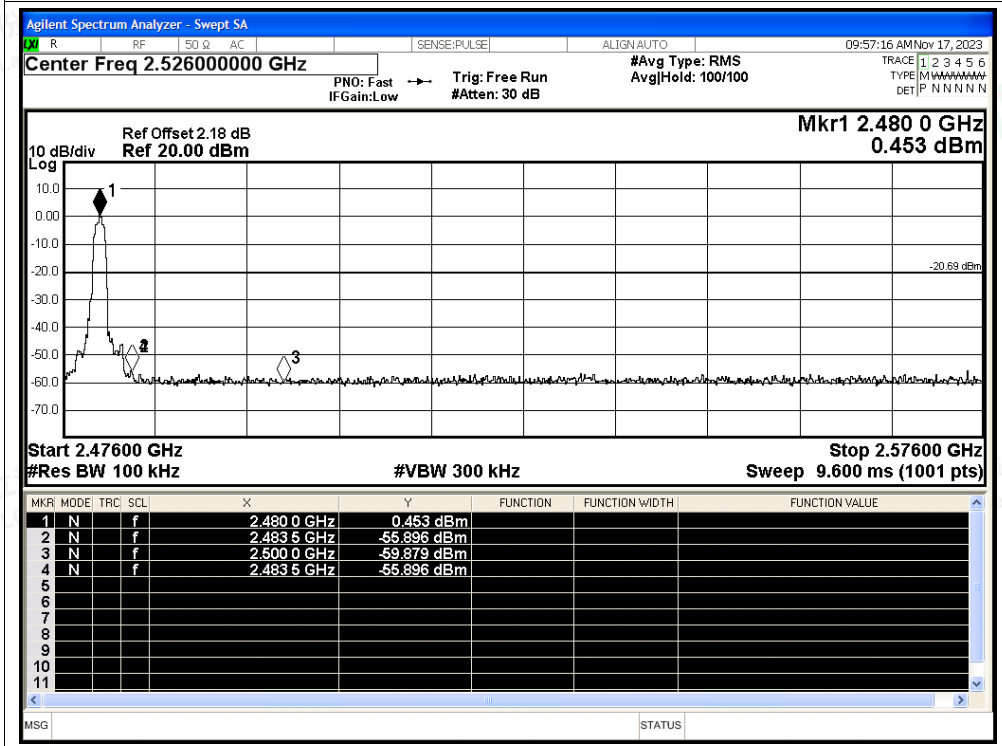




Band Edge NVNT 3-DH5 2480MHz Ant0 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant0 No-Hopping Emission



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Scan code to check authenticity



(Hopping)

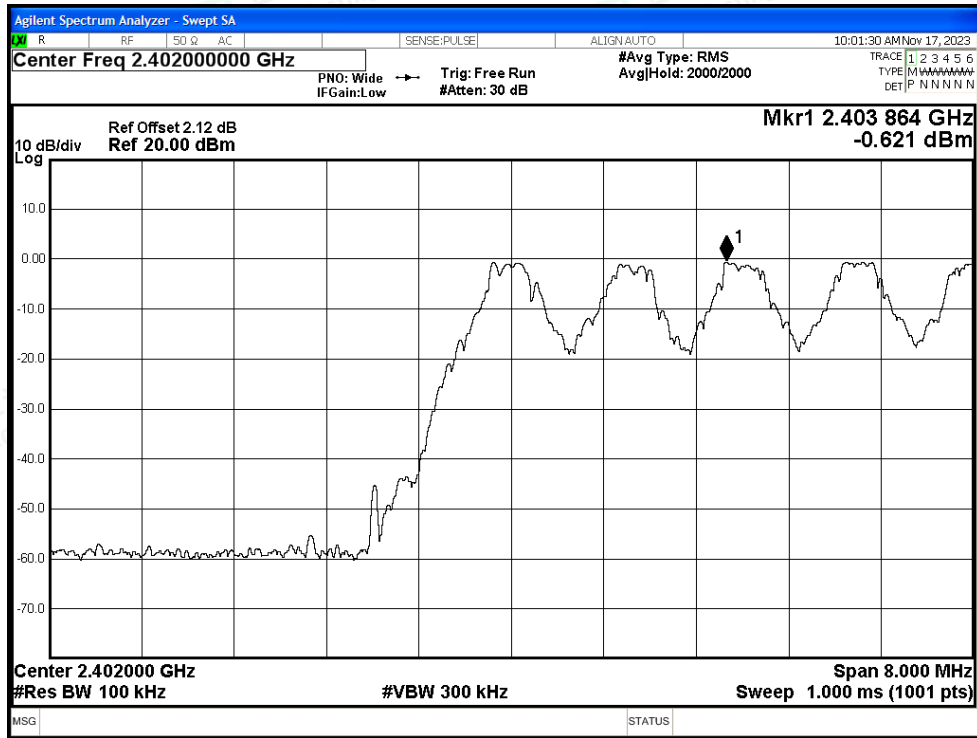
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	Hopping	-55.04	-20	Pass
NVNT	1-DH5	2480	Ant0	Hopping	-56.31	-20	Pass
NVNT	2-DH5	2402	Ant0	Hopping	-54.96	-20	Pass
NVNT	2-DH5	2480	Ant0	Hopping	-56.31	-20	Pass
NVNT	3-DH5	2402	Ant0	Hopping	-55.32	-20	Pass
NVNT	3-DH5	2480	Ant0	Hopping	-56.53	-20	Pass



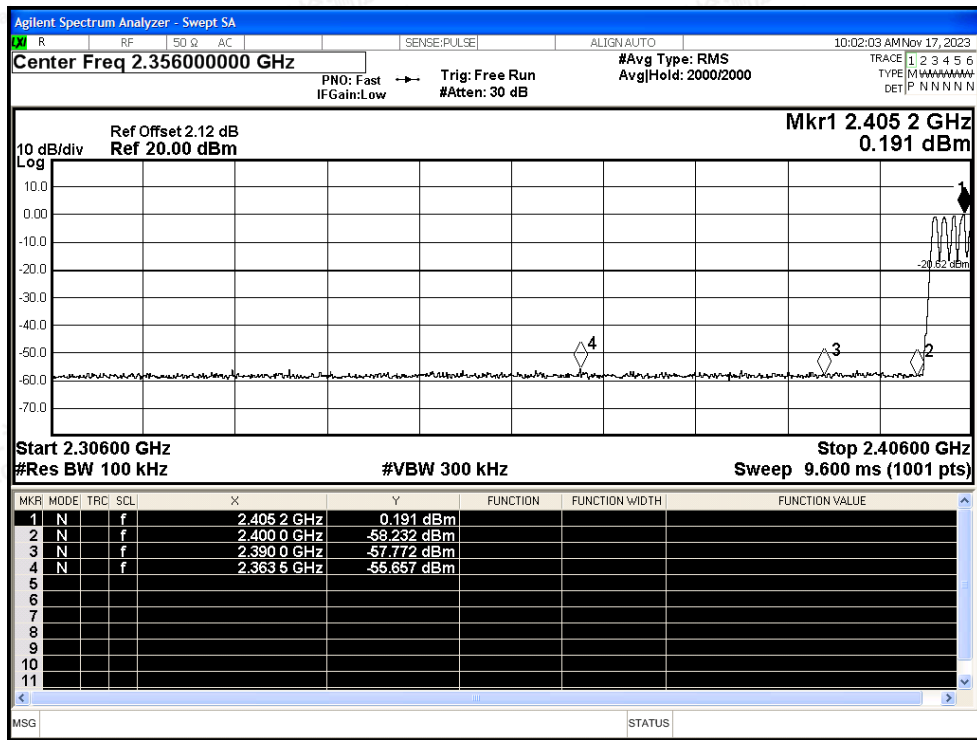


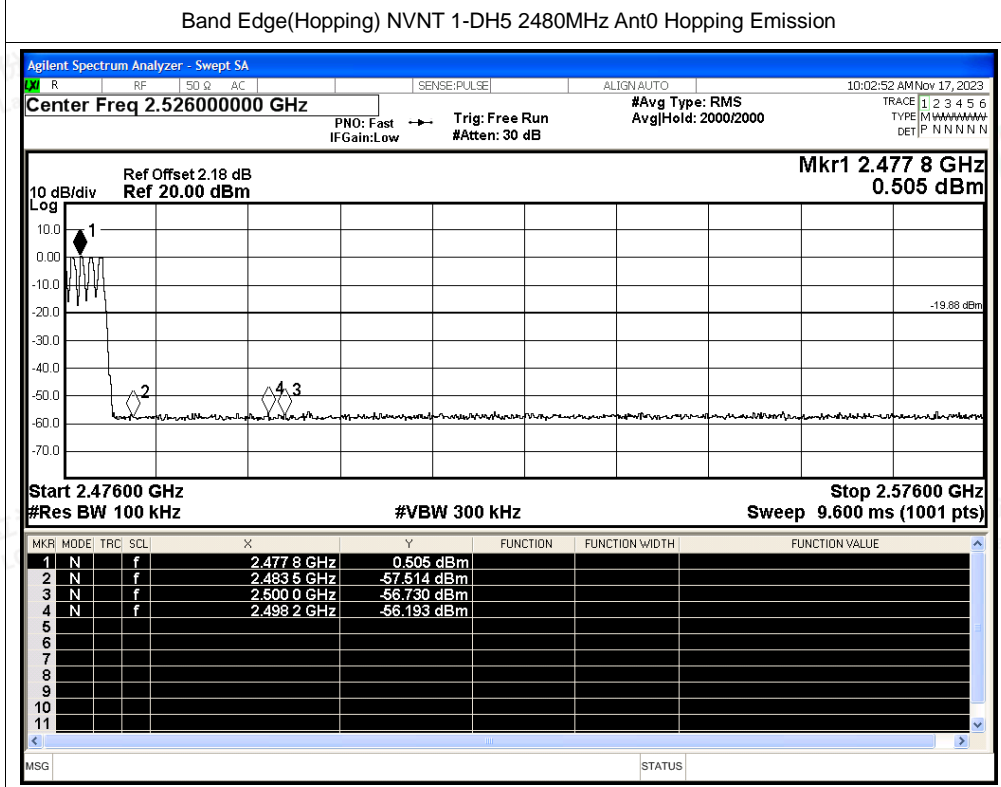
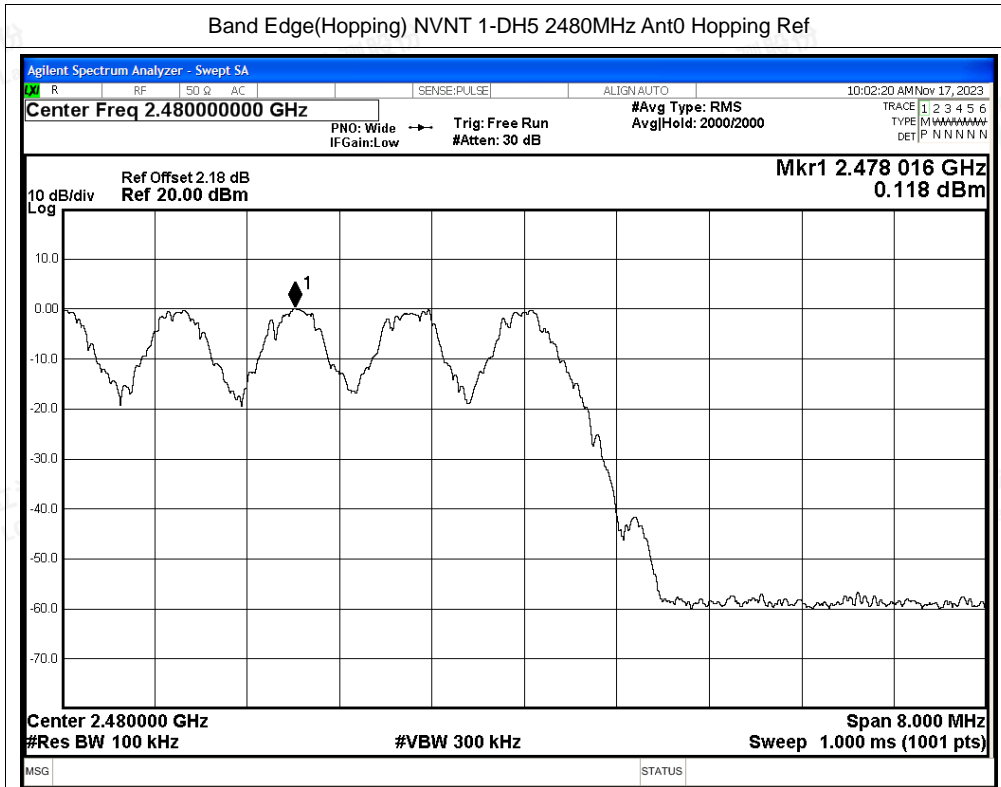
Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Ref



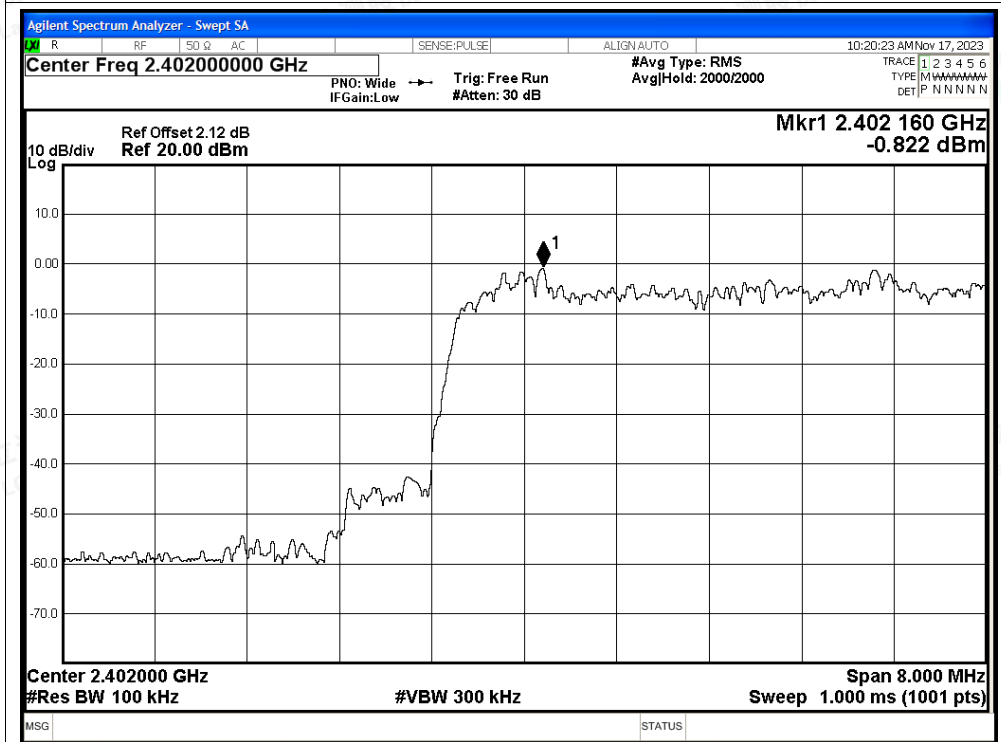
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Emission



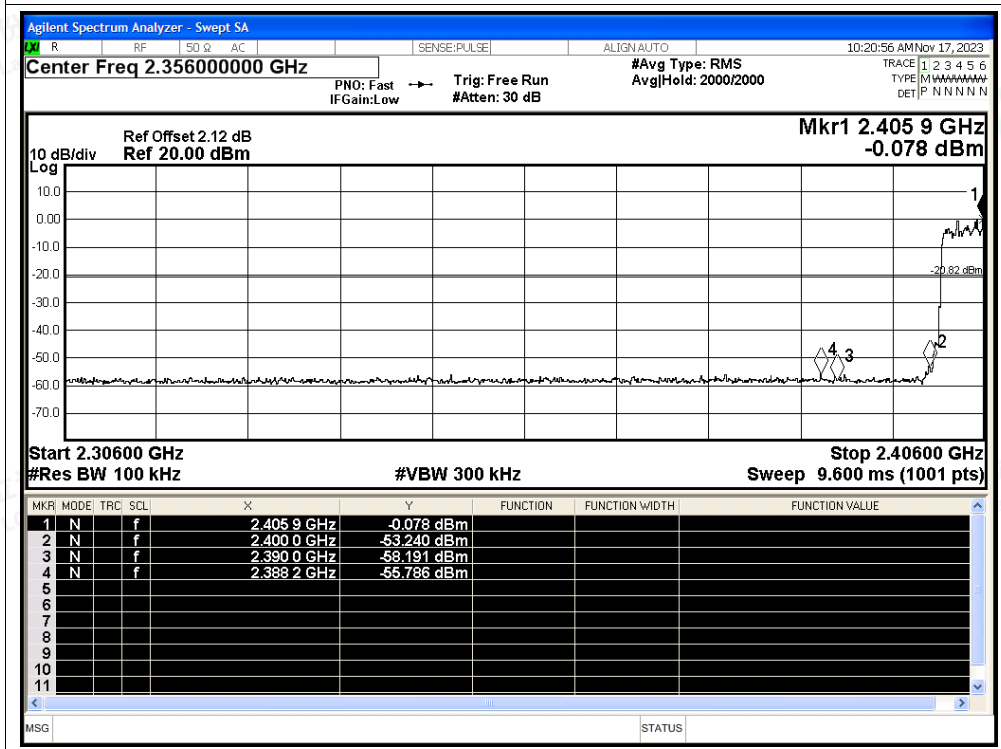




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant0 Hopping Ref

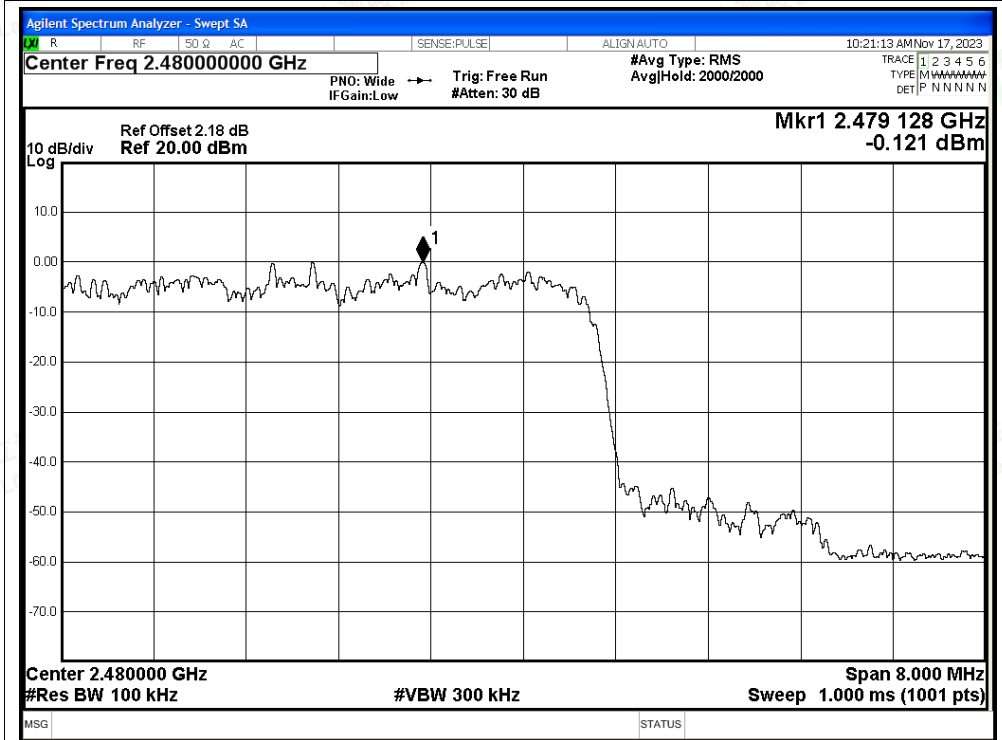


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant0 Hopping Emission

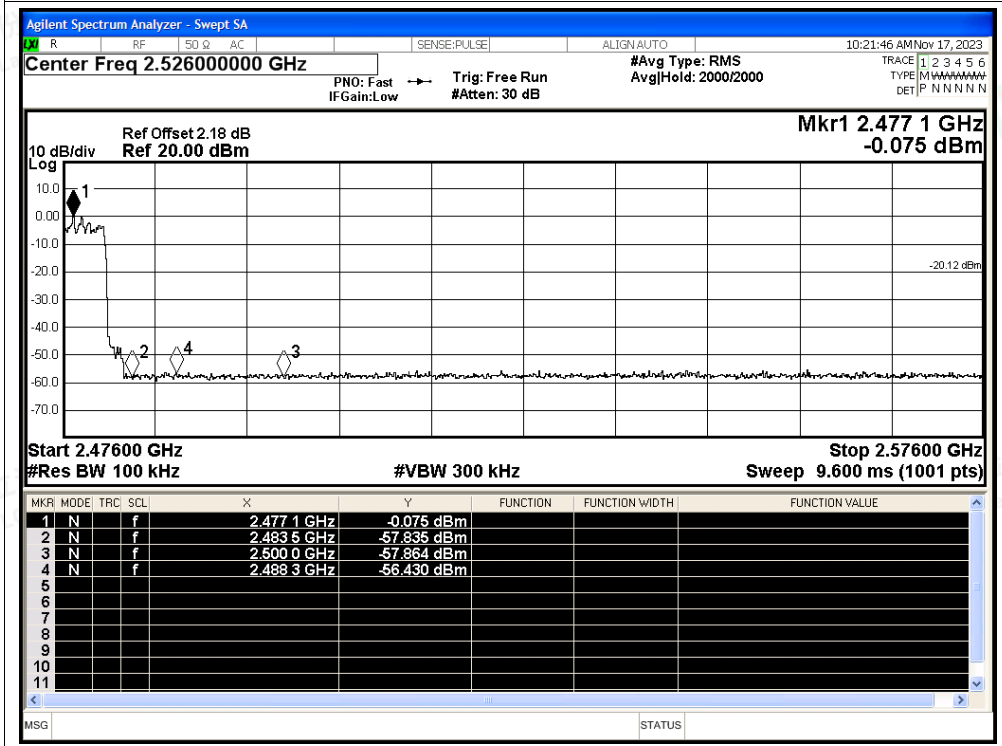




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant0 Hopping Ref

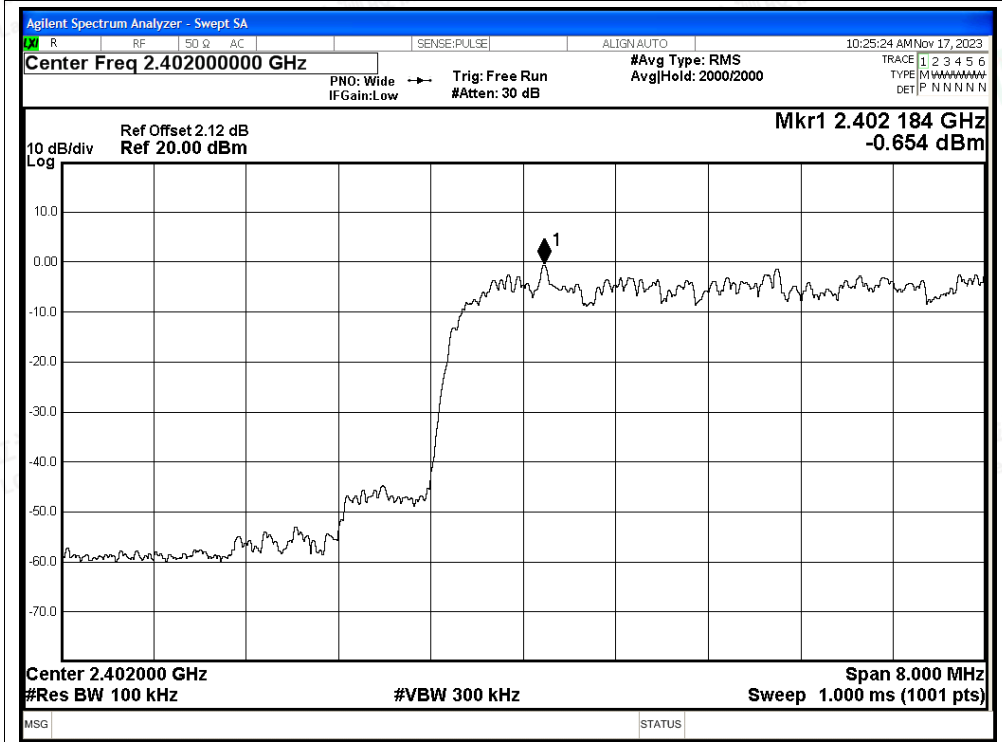


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant0 Hopping Emission

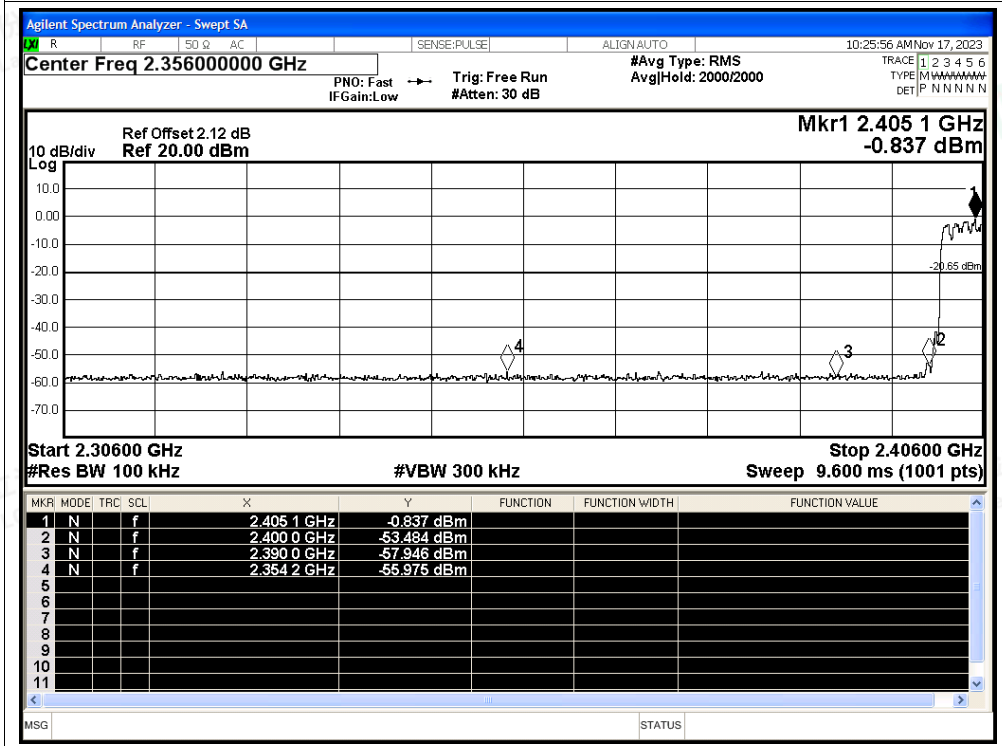




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant0 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant0 Hopping Emission

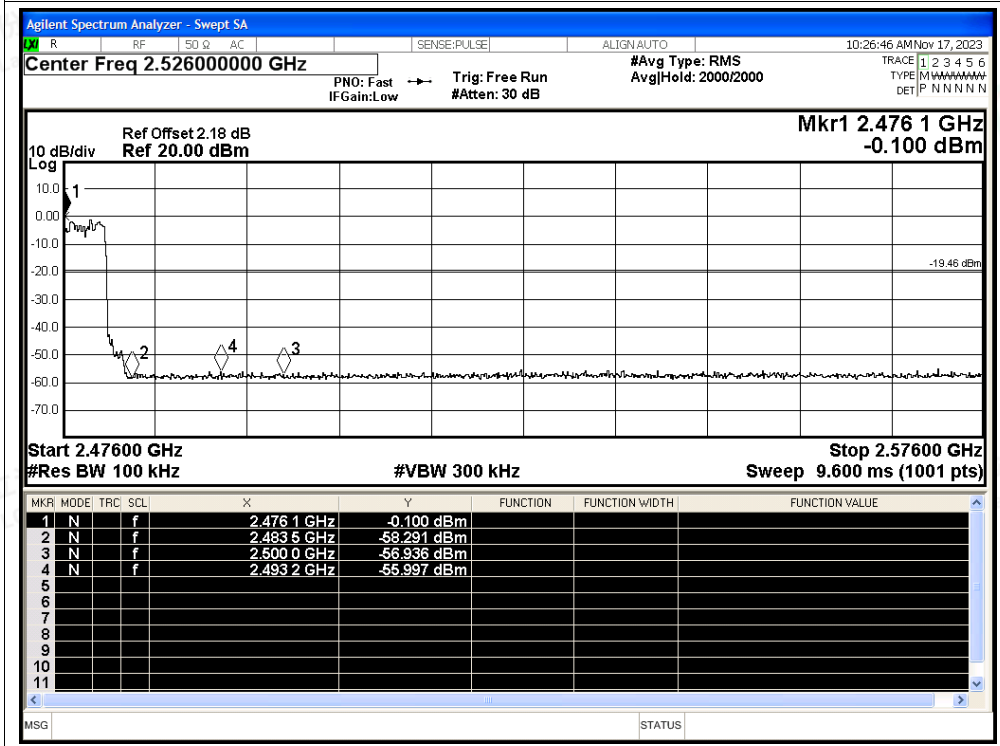




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant0 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant0 Hopping Emission





A.7 Conducted RF Spurious Emission

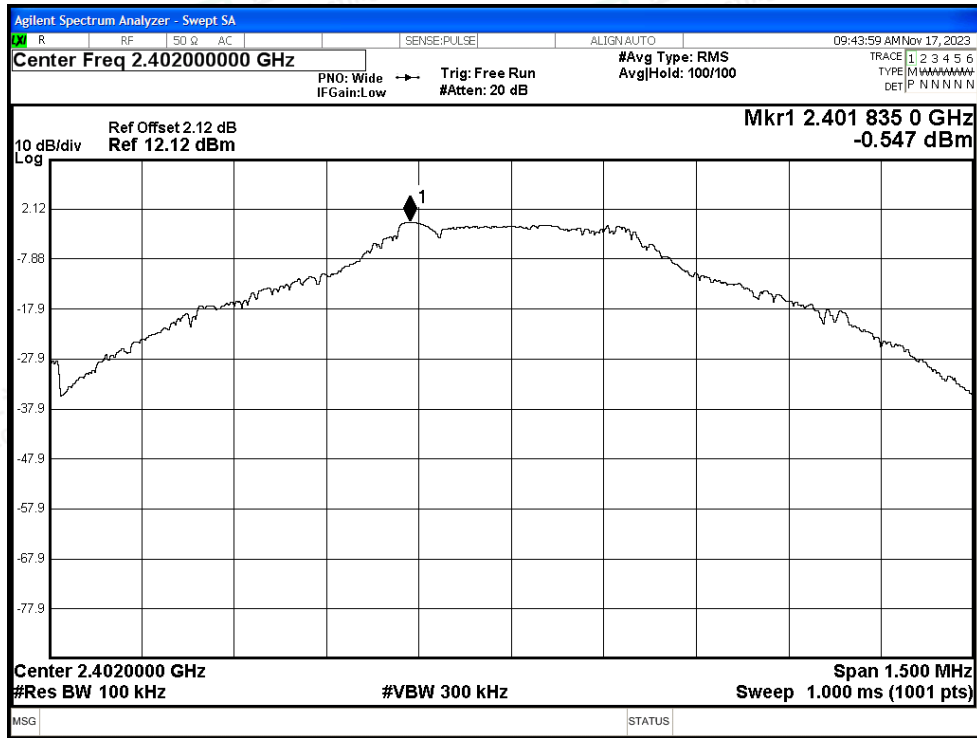
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	-55.26	-20	Pass
NVNT	1-DH5	2441	Ant0	-56.99	-20	Pass
NVNT	1-DH5	2480	Ant0	-56.14	-20	Pass
NVNT	2-DH5	2402	Ant0	-53.65	-20	Pass
NVNT	2-DH5	2441	Ant0	-56.2	-20	Pass
NVNT	2-DH5	2480	Ant0	-55.61	-20	Pass
NVNT	3-DH5	2402	Ant0	-54	-20	Pass
NVNT	3-DH5	2441	Ant0	-56.6	-20	Pass
NVNT	3-DH5	2480	Ant0	-55.42	-20	Pass



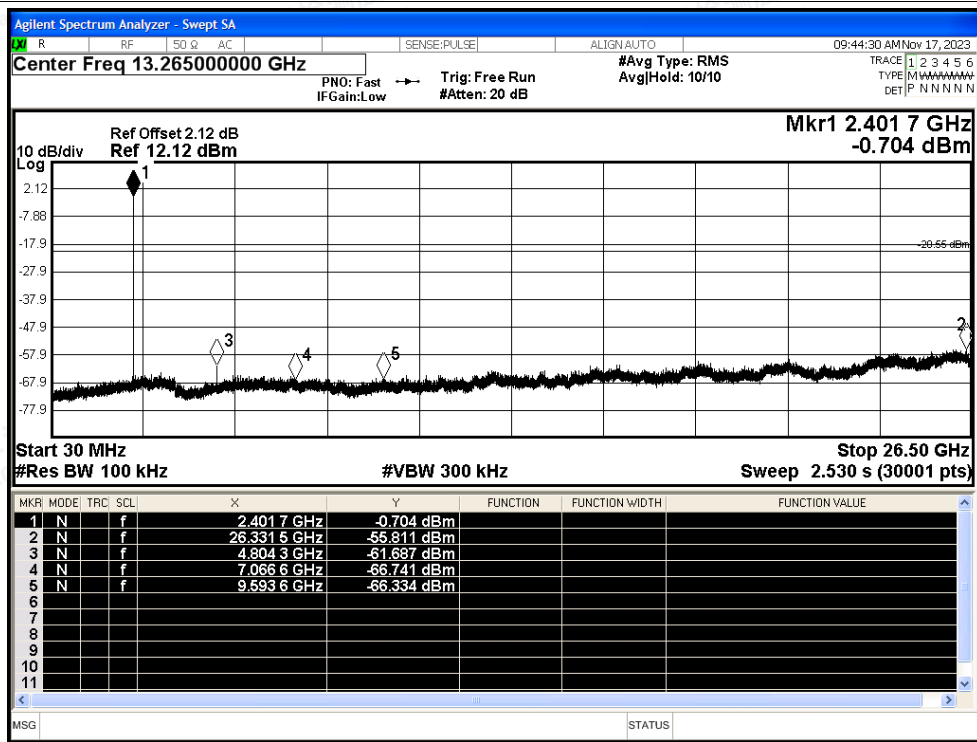


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Ref

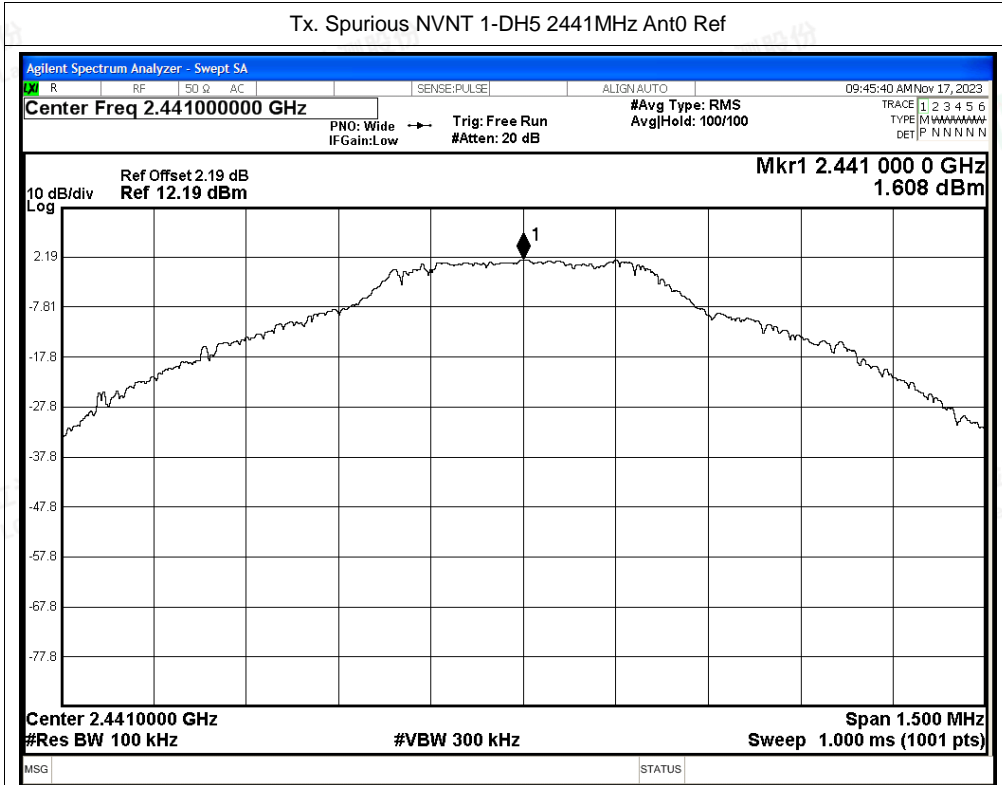


Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Emission

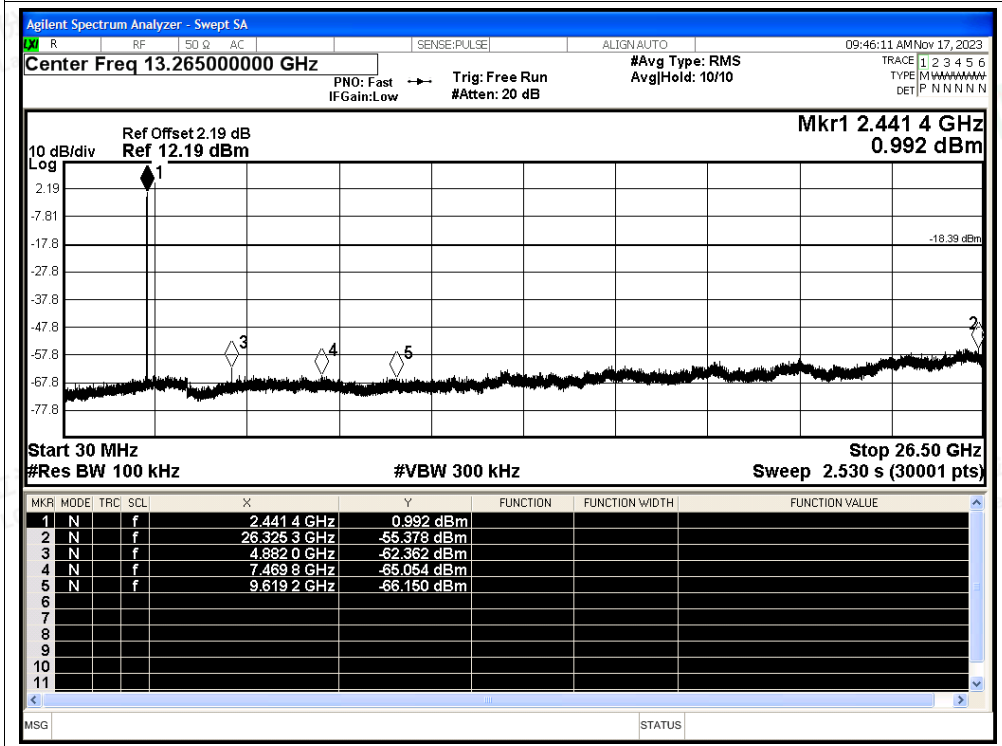




Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Ref

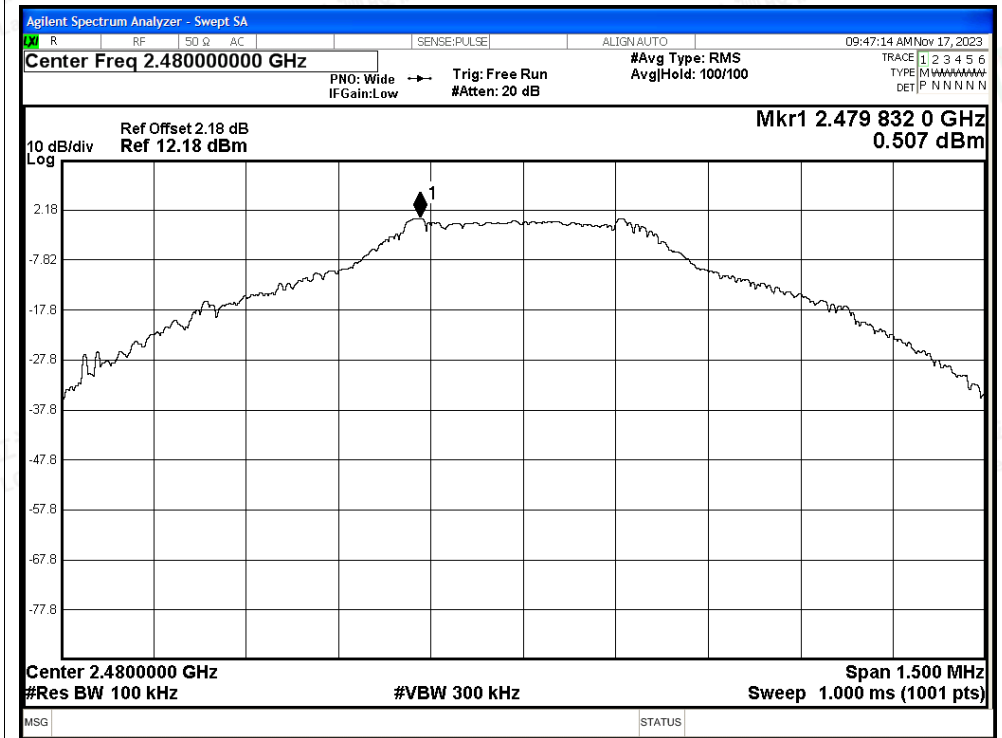


Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Emission

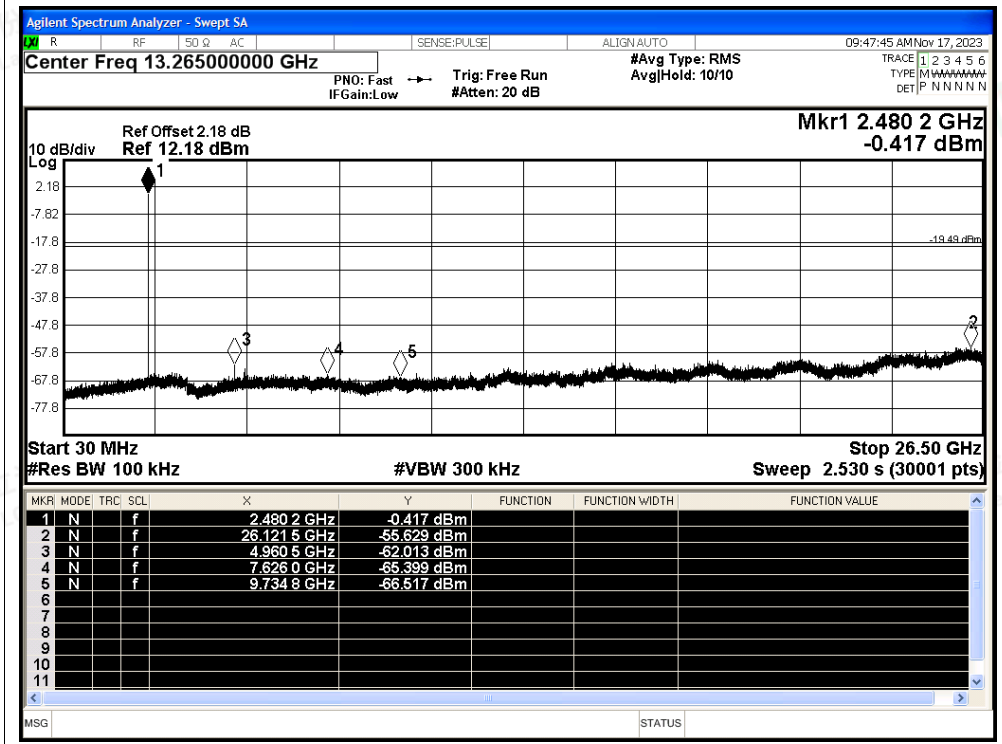




Tx. Spurious NVNT 1-DH5 2480MHz Ant0 Ref

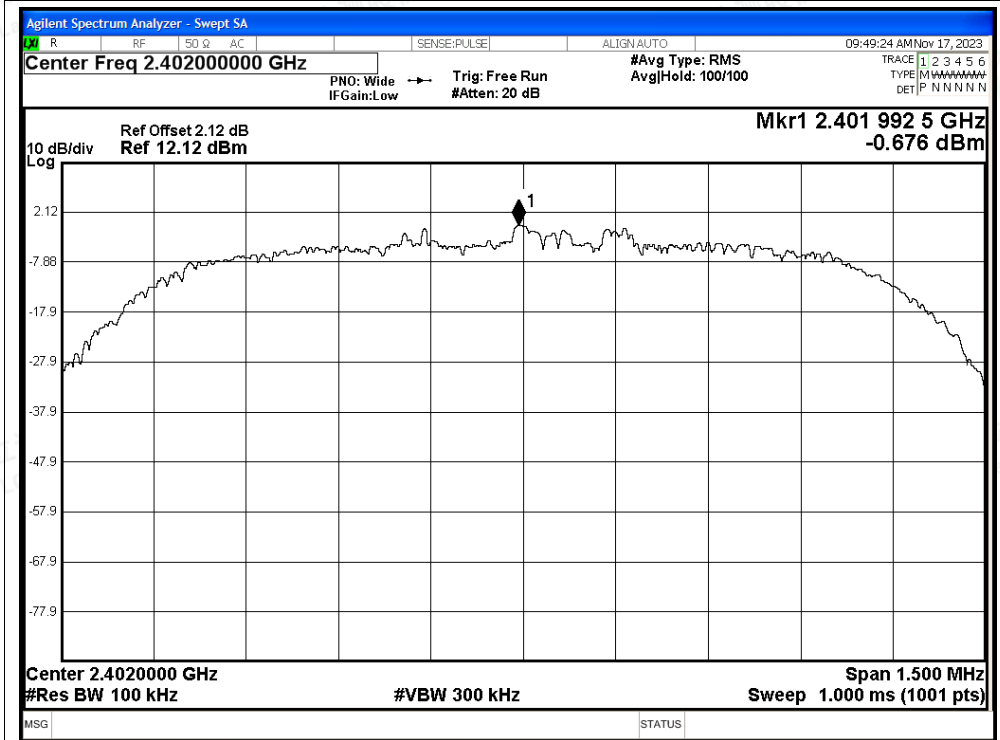


Tx. Spurious NVNT 1-DH5 2480MHz Ant0 Emission

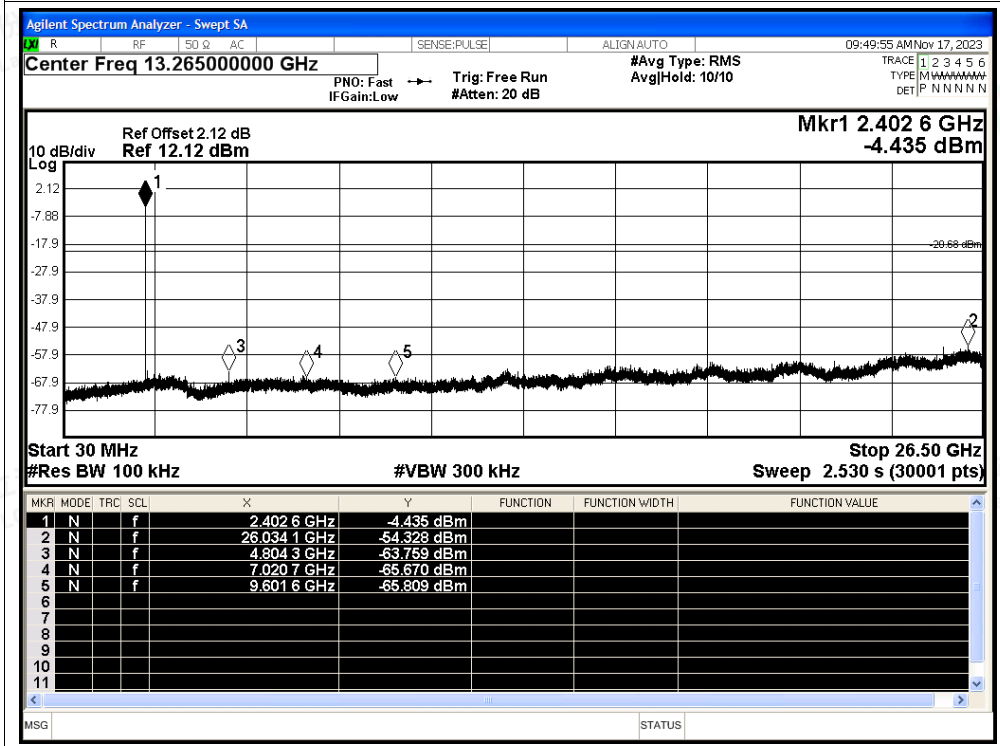




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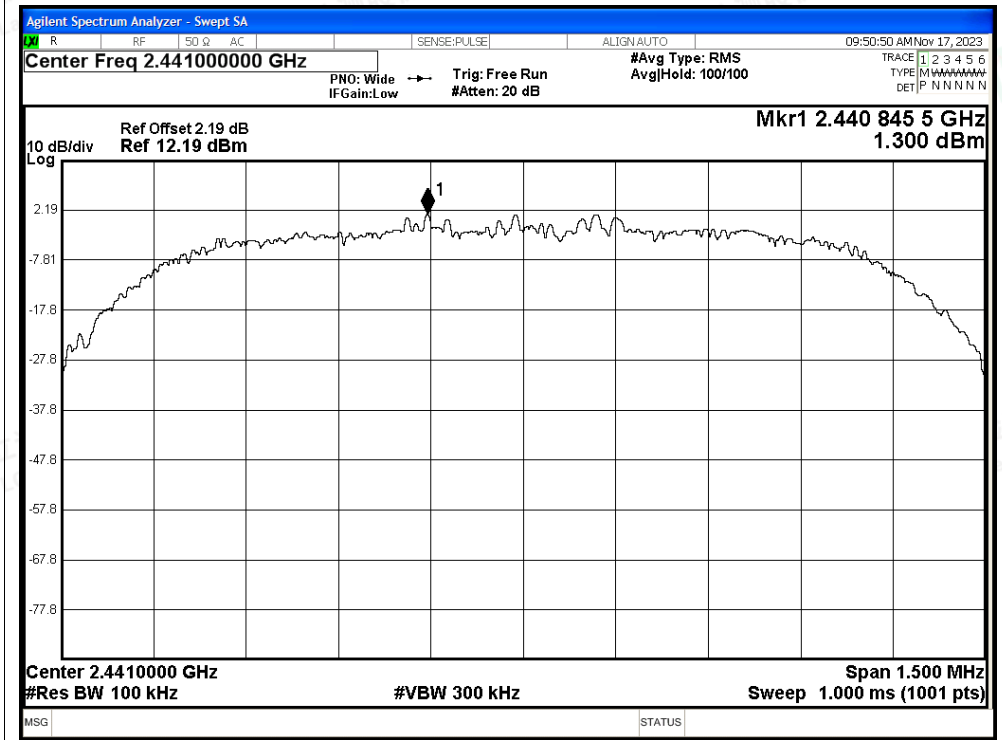


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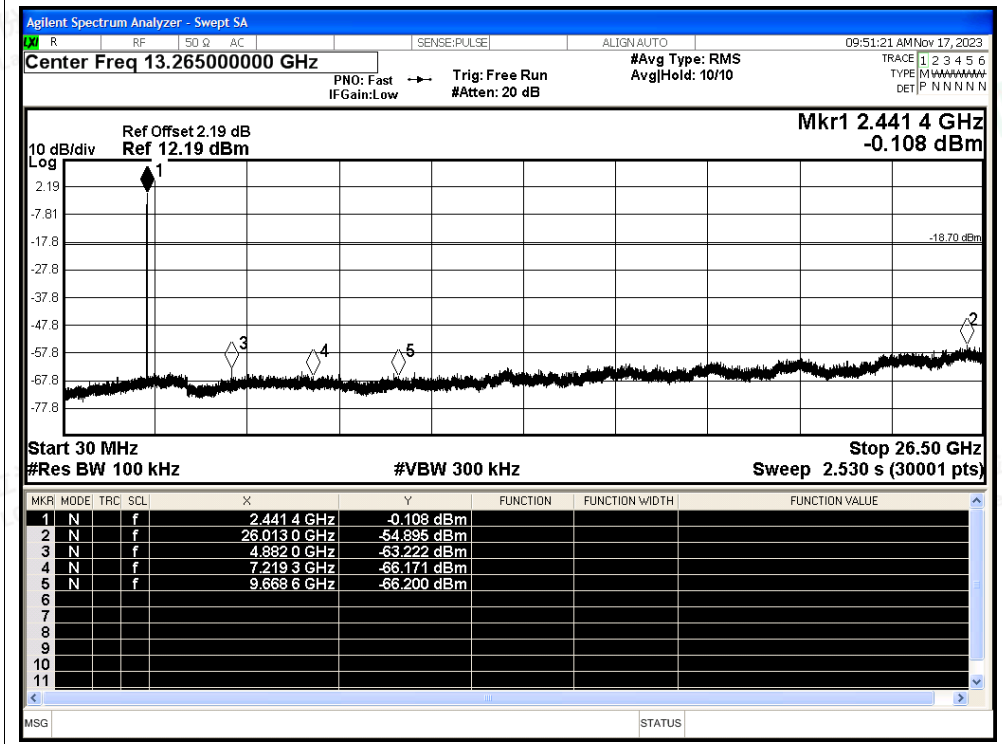




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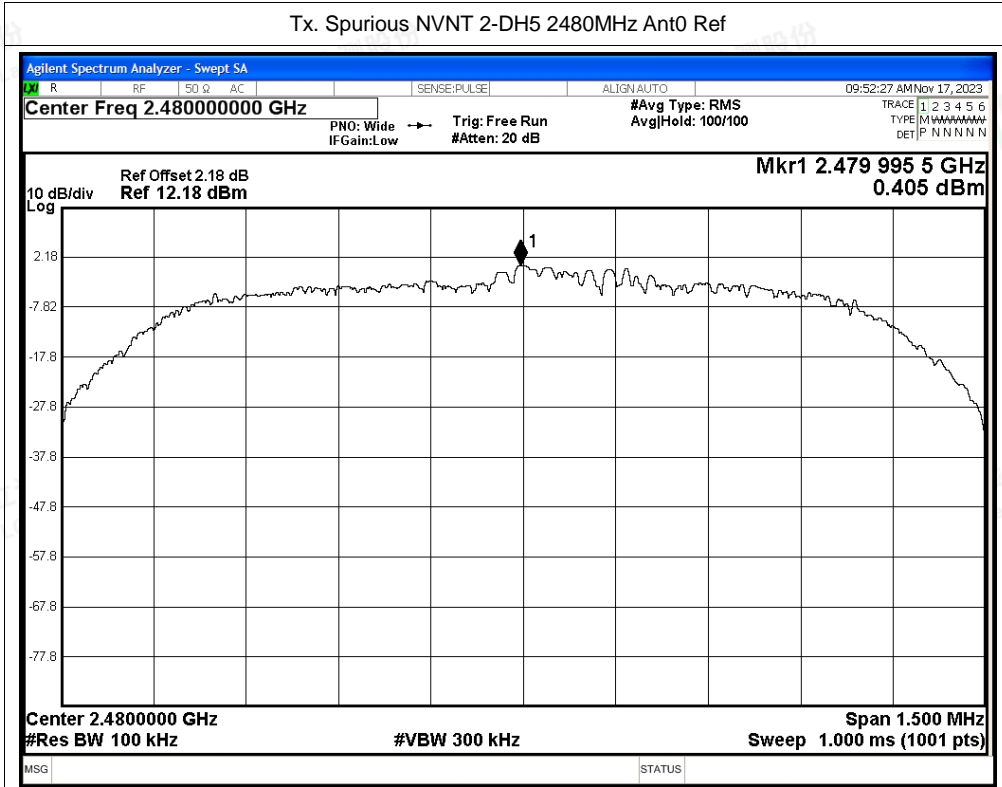


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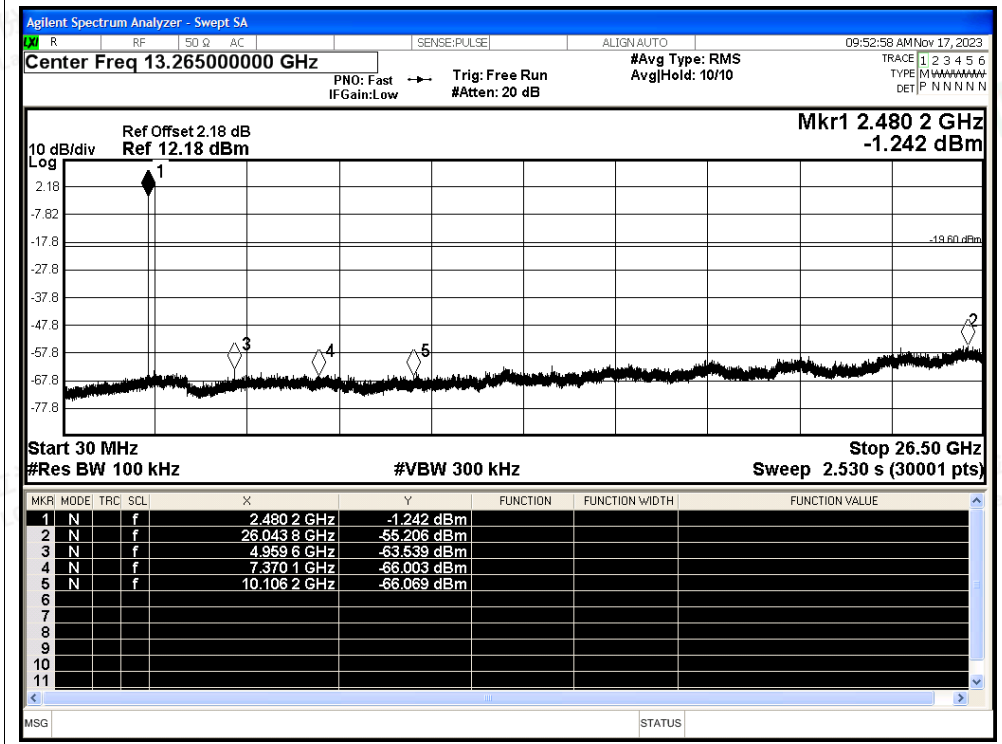




Tx. Spurious NVNT 2-DH5 2480MHz Ant0 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

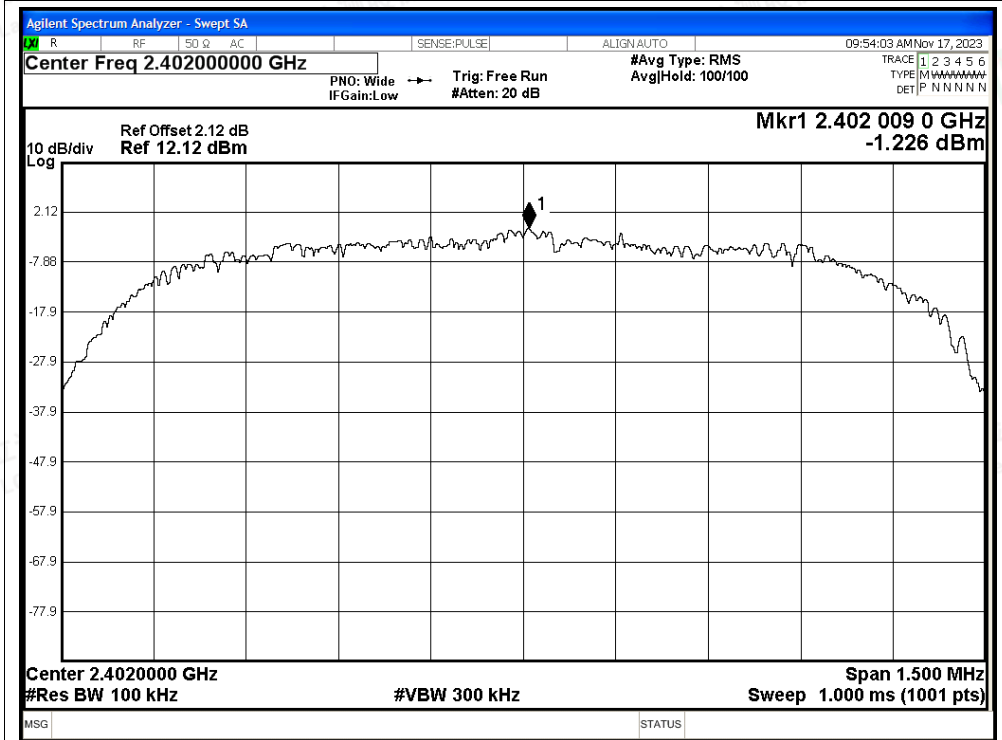
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

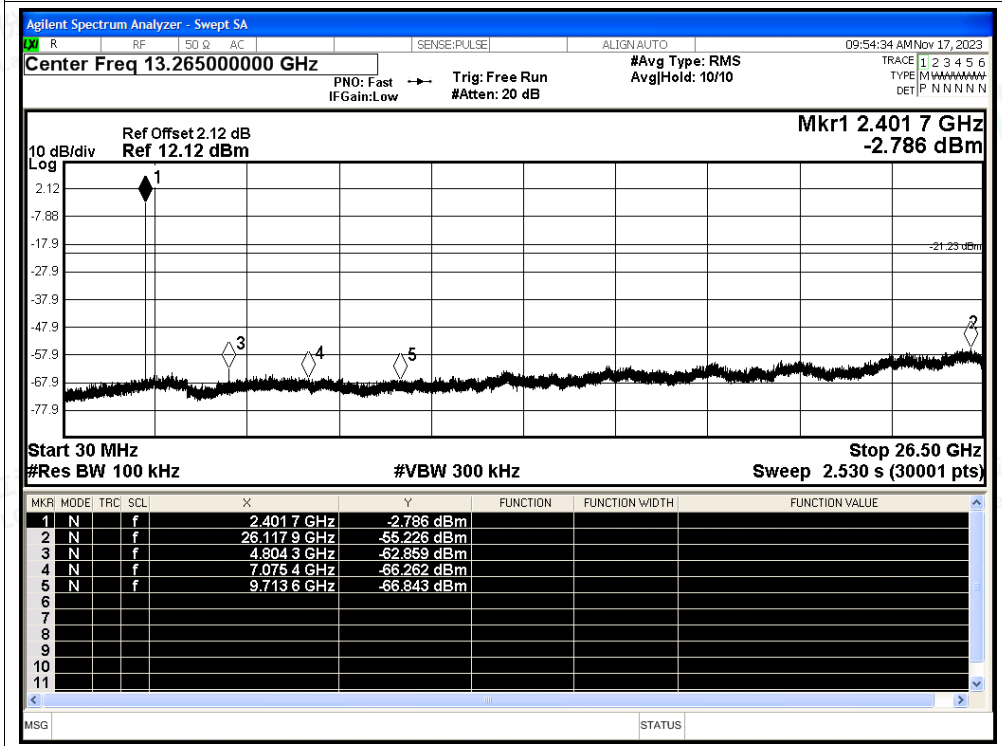
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant0 Ref

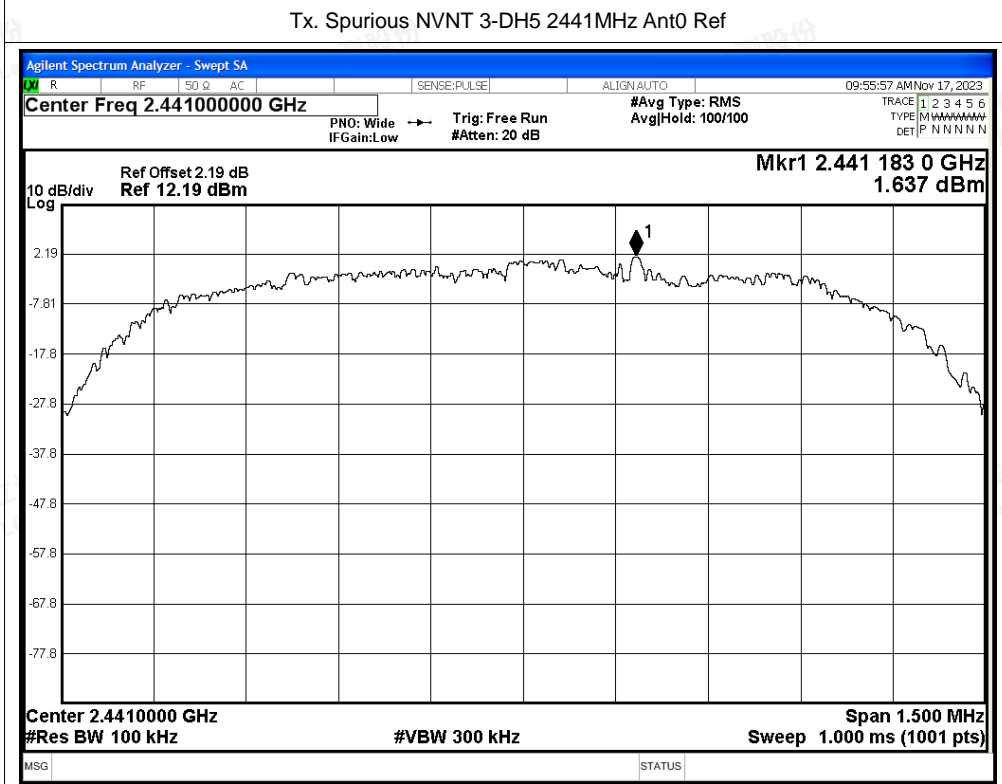


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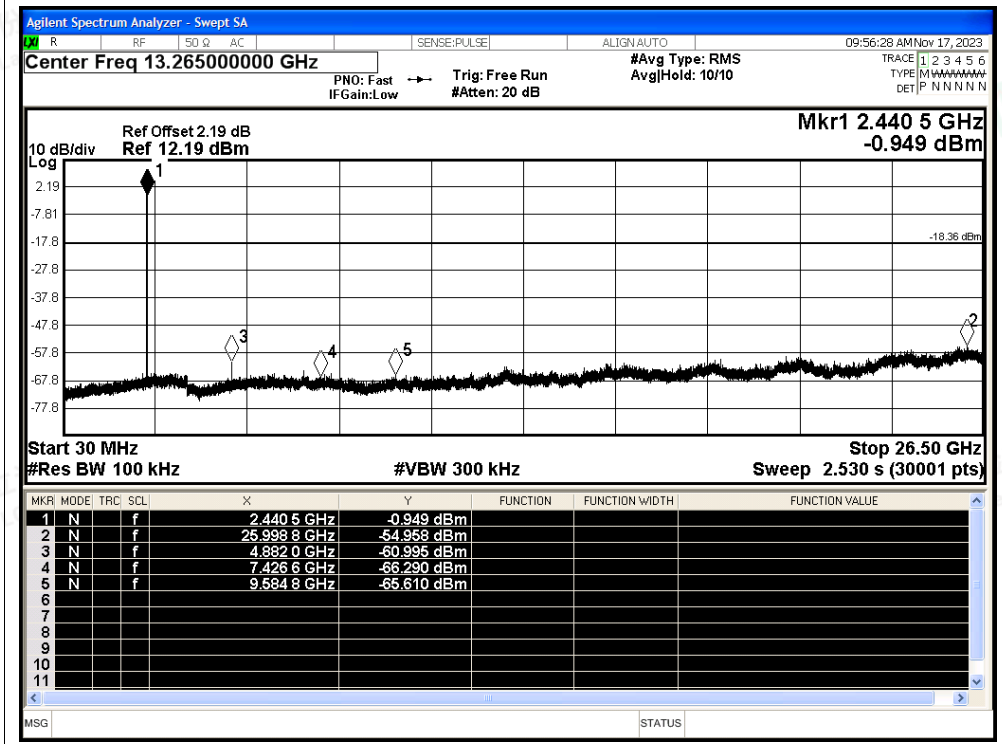




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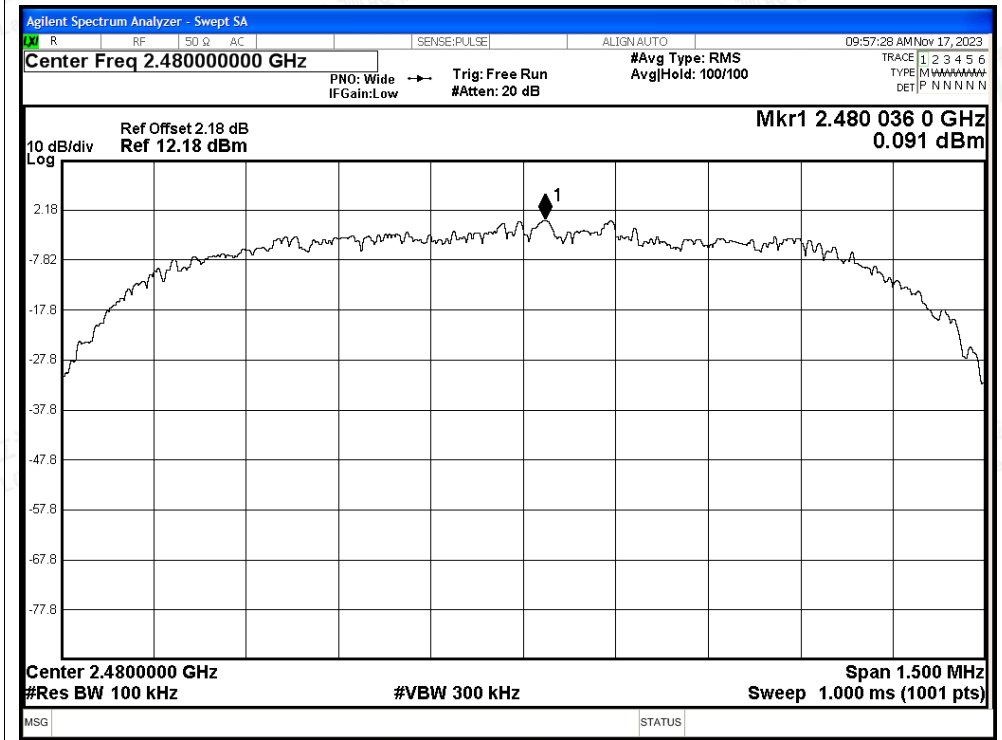


Tx. Spurious NVNT 3-DH5 2441MHz Ant0 Emission

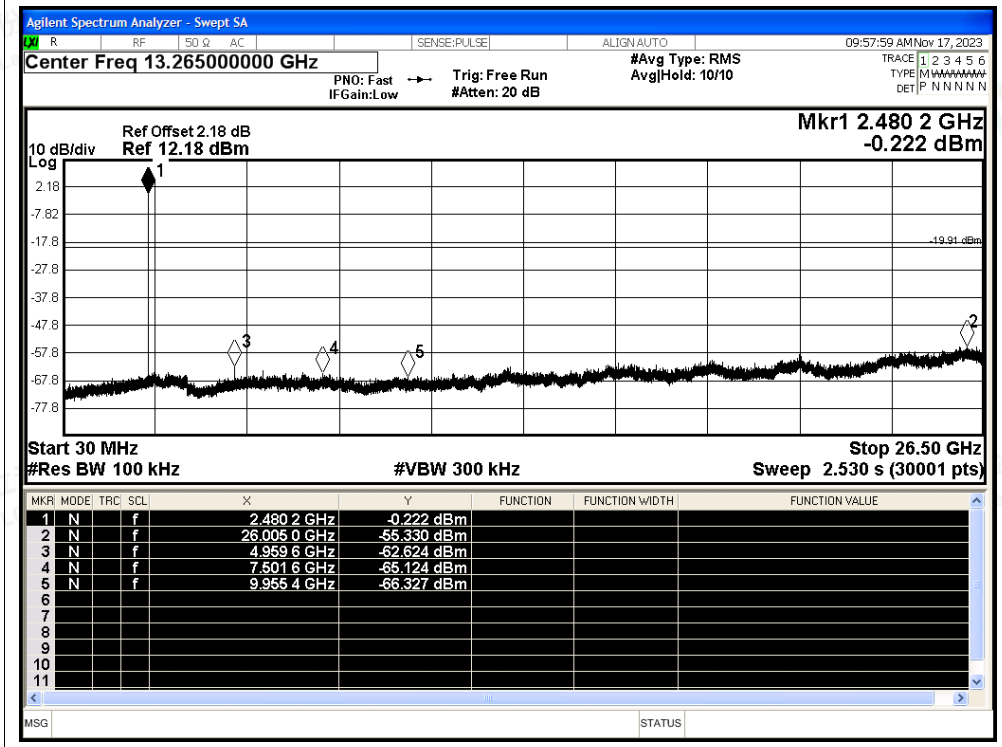




Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Emission



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Scan code to check authenticity



A.8 Restrict Band

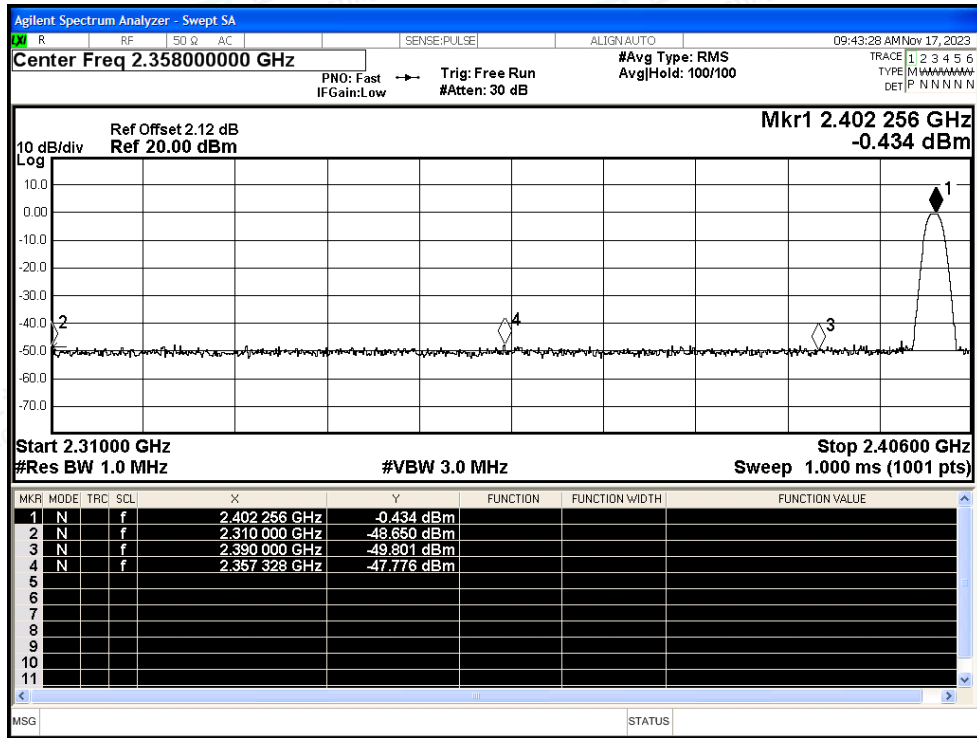
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant0	No-Hopping	2310	-48.65	2	48.61	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2310	-57.71	2	39.55	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2357.328	-47.78	2	49.48	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2384.4	-57.36	2	39.9	Average	54	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-49.8	2	47.46	Peak	74	Pass
NVNT	1-DH5	2402	Ant0	No-Hopping	2390	-57.52	2	39.74	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-49.61	2	47.65	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.5	-55.47	2	41.79	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2486.92	-44.61	2	52.65	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2483.512	-55.47	2	41.79	Average	54	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-49.19	2	48.07	Peak	74	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	2500	-57.19	2	40.07	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-50.19	2	47.07	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2310	-57.85	2	39.41	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2331.888	-46.6	2	50.66	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2388.624	-57.41	2	39.85	Average	54	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-51.05	2	46.21	Peak	74	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	2390	-57.62	2	39.64	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-46.68	2	50.58	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.5	-52.66	2	44.6	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.944	-43.83	2	53.43	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2483.512	-52.66	2	44.6	Average	54	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-48.79	2	48.47	Peak	74	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	2500	-55.6	2	41.66	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-50.53	2	46.73	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2310	-56.21	2	41.05	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2379.888	-47.14	2	50.12	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2343.792	-55.4	2	41.86	Average	54	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-50.52	2	46.74	Peak	74	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	2390	-56.08	2	41.18	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-46.9	2	50.36	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.5	-52.07	2	45.19	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.608	-44	2	53.26	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2483.536	-51.96	2	45.3	Average	54	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-49.55	2	47.71	Peak	74	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	2500	-56.09	2	41.17	Average	54	Pass



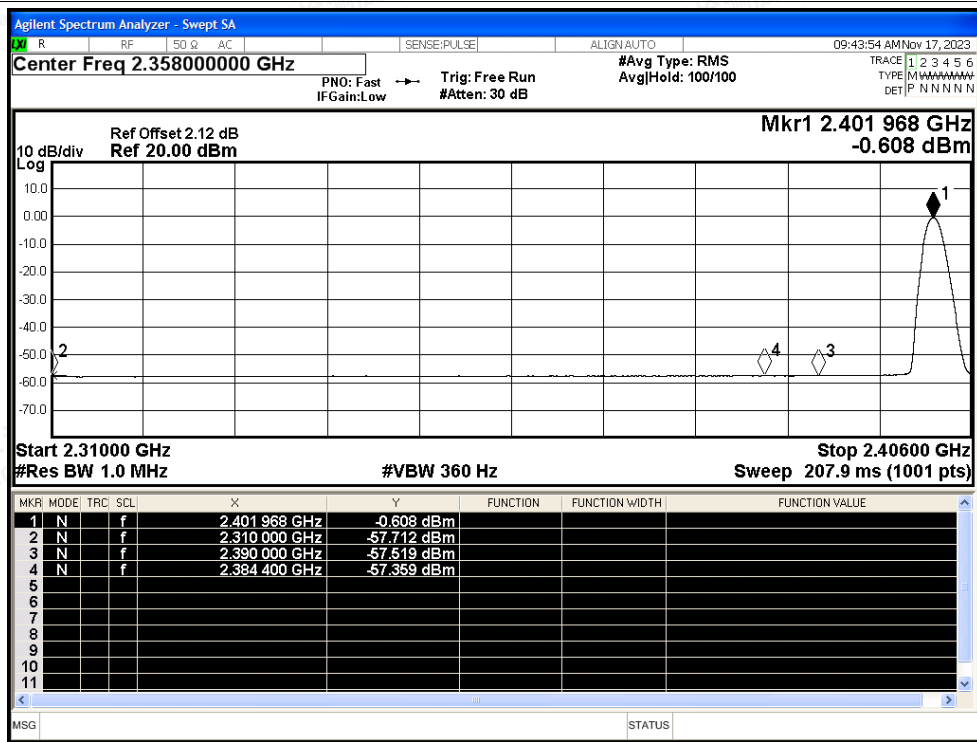


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant0 No-Hopping Peak

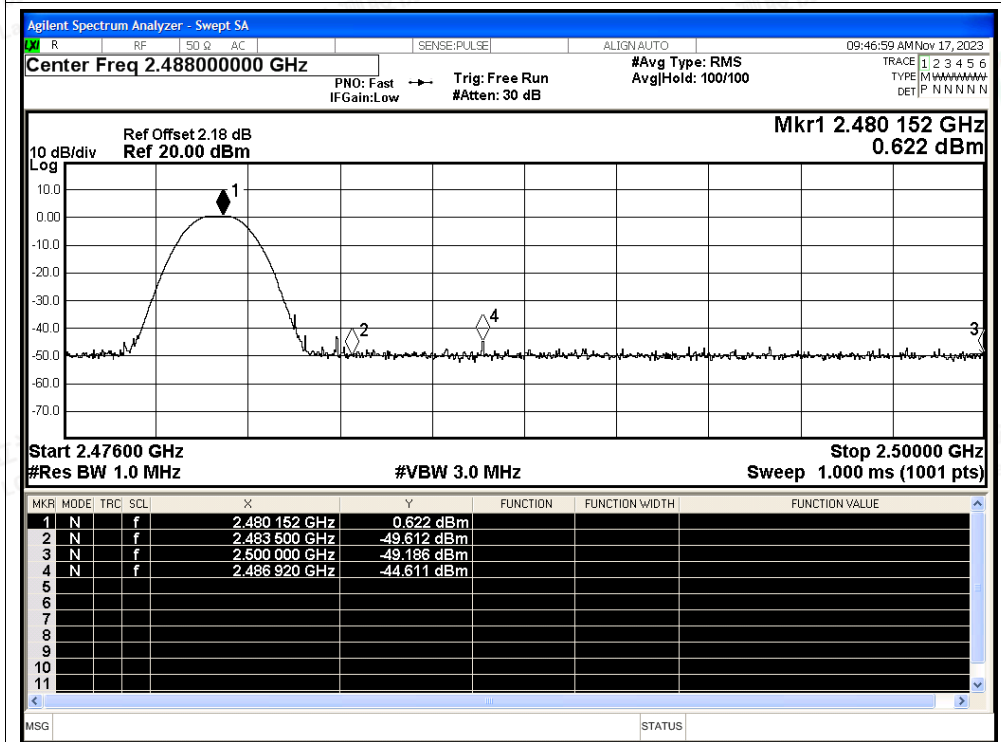


Restrict Band NVNT 1-DH5 2402MHz Ant0 No-Hopping Average

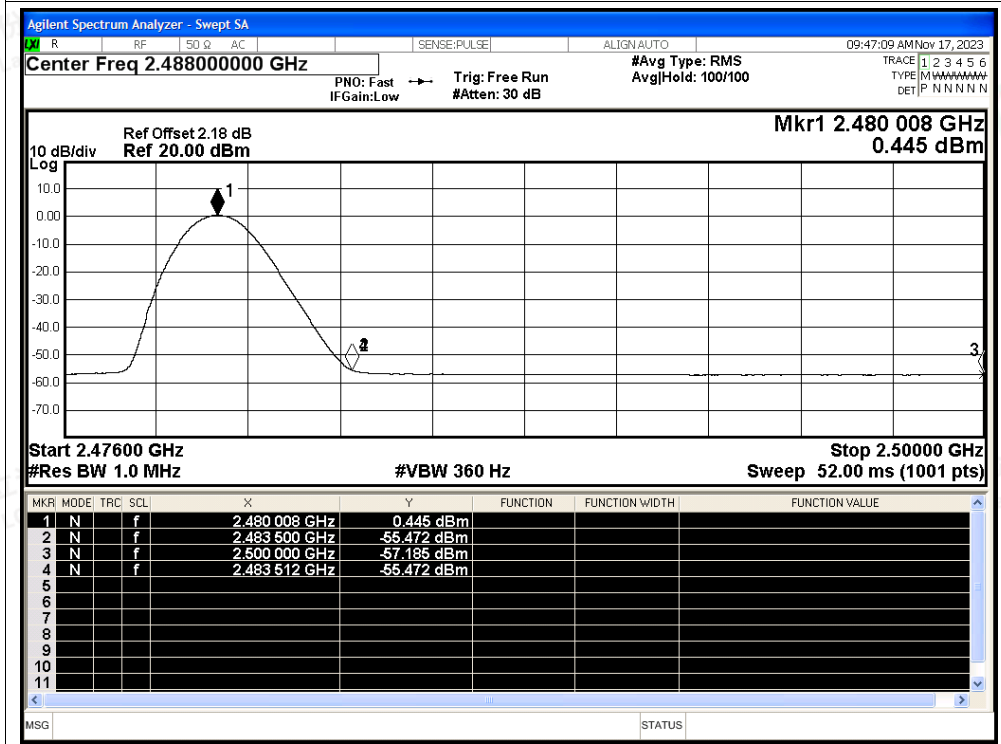




Restrict Band NVNT 1-DH5 2480MHz Ant0 No-Hopping Peak

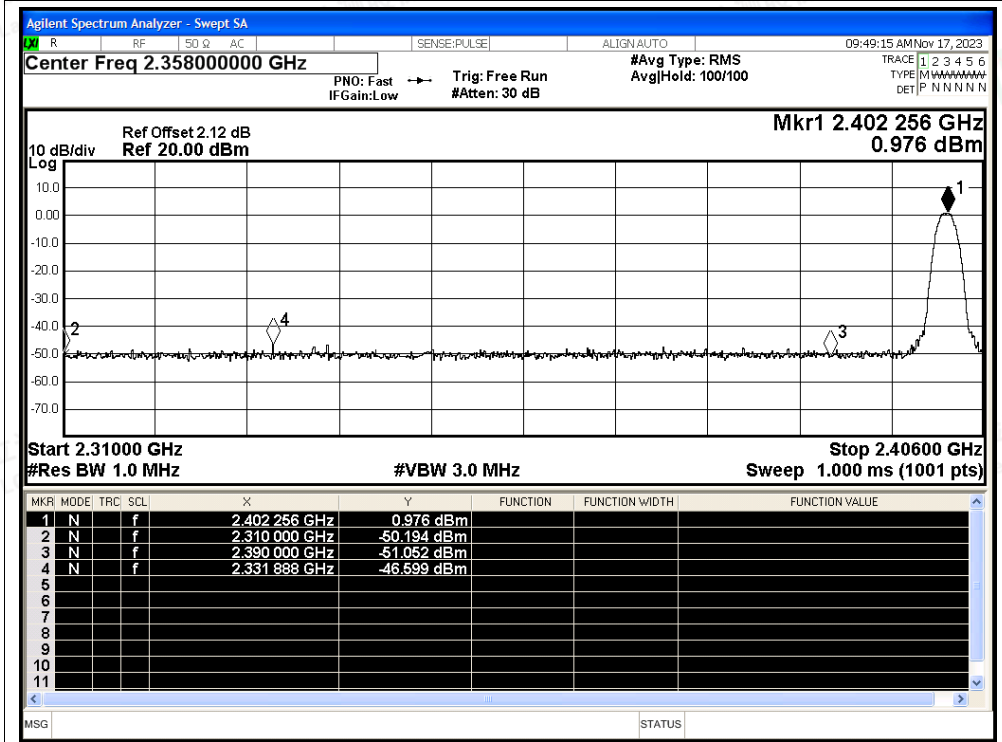


Restrict Band NVNT 1-DH5 2480MHz Ant0 No-Hopping Average

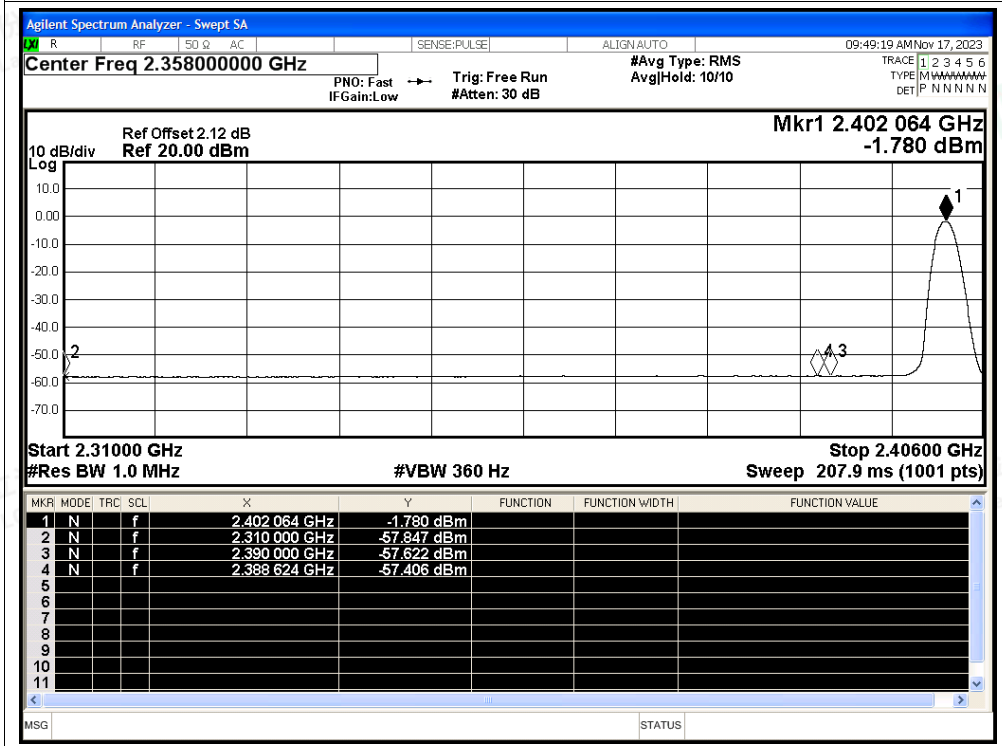




Restrict Band NVNT 2-DH5 2402MHz Ant0 No-Hopping Peak

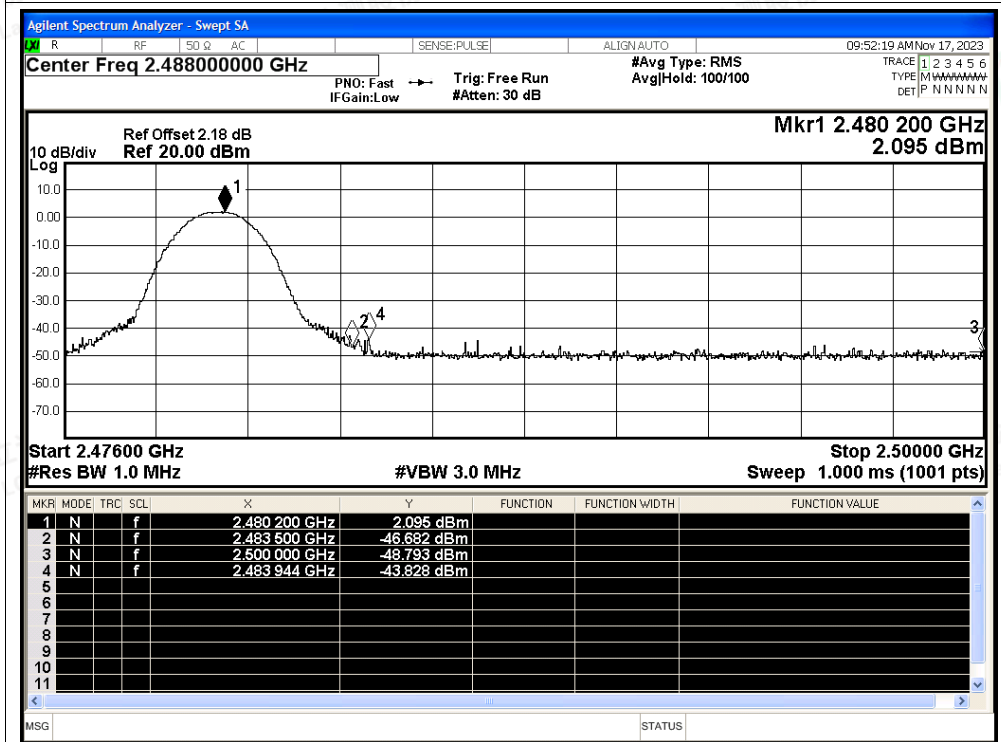


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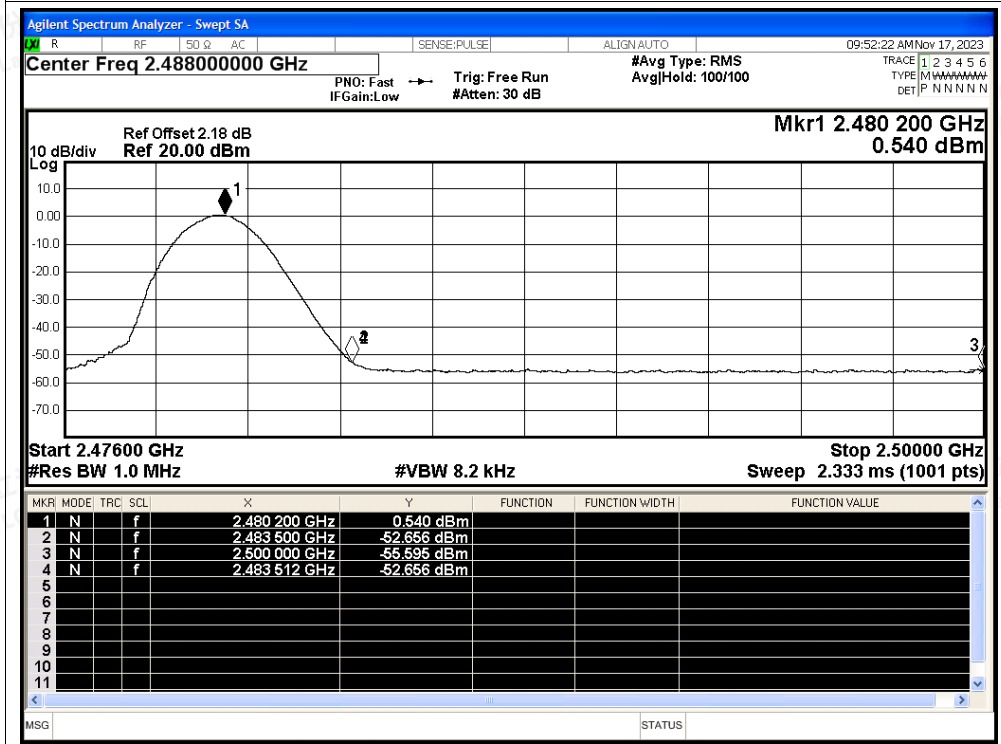




Restrict Band NVNT 2-DH5 2480MHz Ant0 No-Hopping Peak

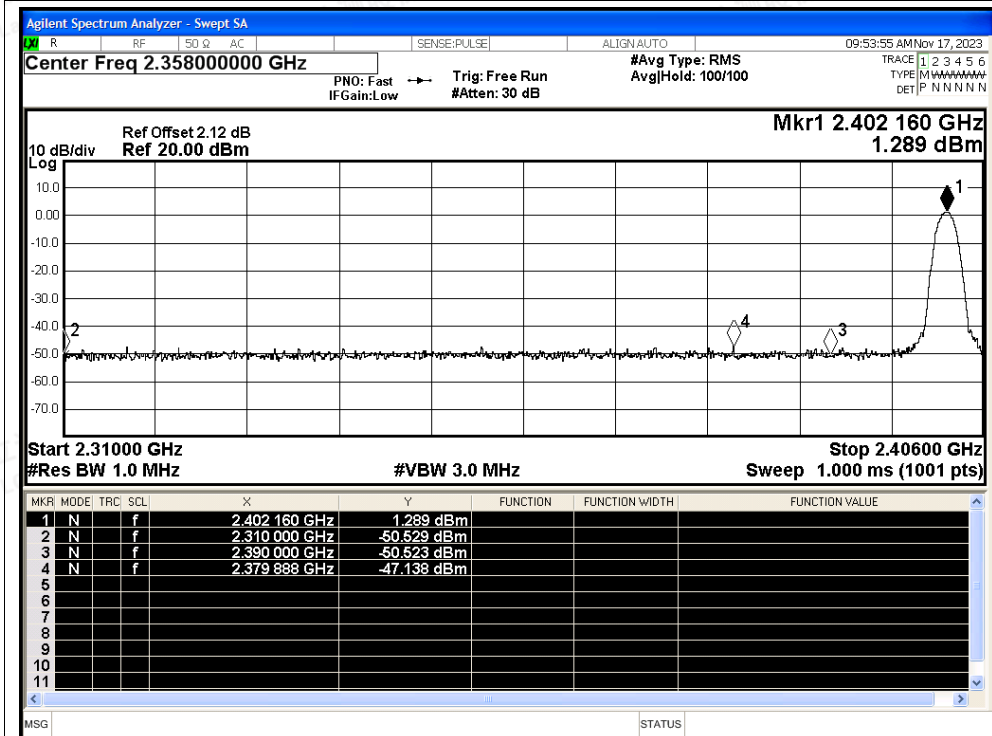


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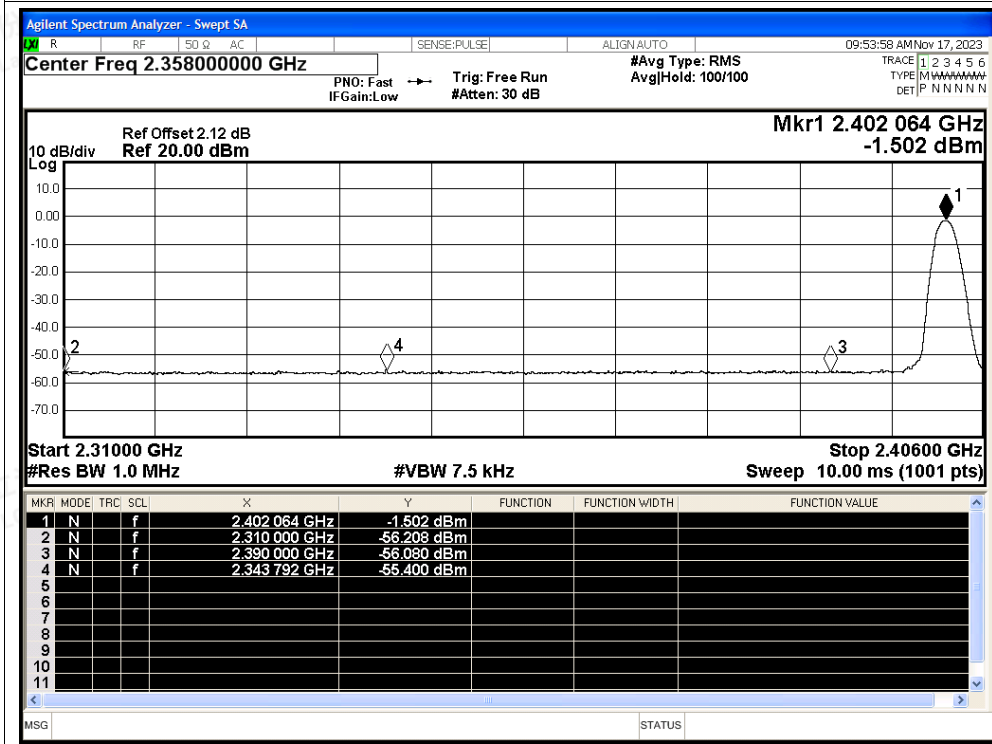




Restrict Band NVNT 3-DH5 2402MHz Ant0 No-Hopping Peak

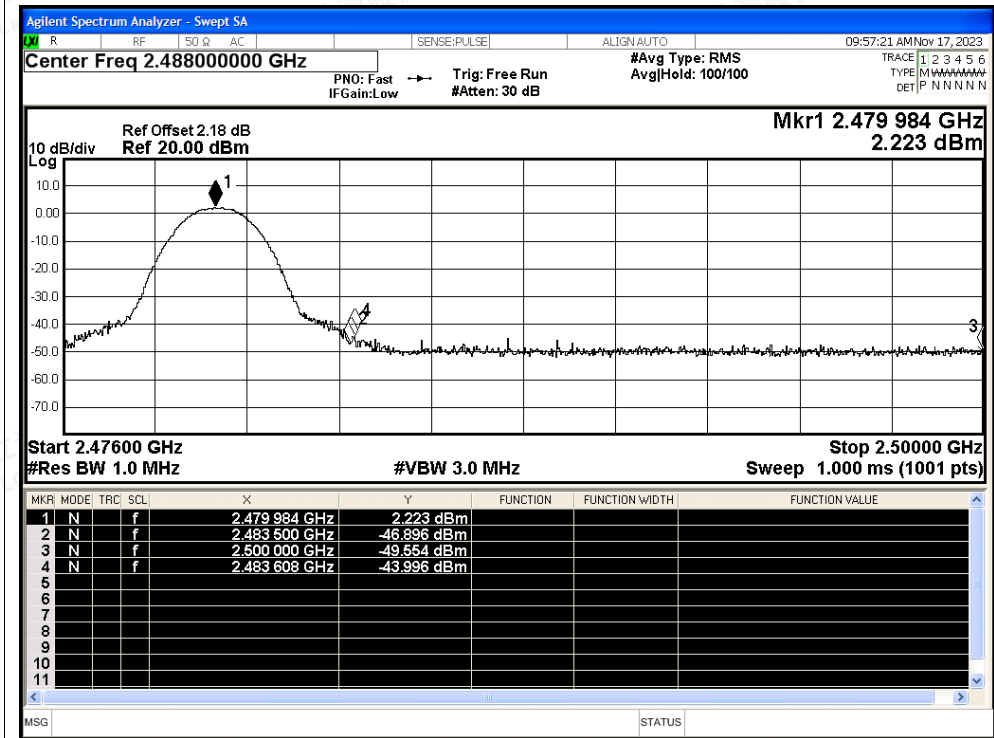


Restrict Band NVNT 3-DH5 2402MHz Ant0 No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant0 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant0 No-Hopping Average

