



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Mechanical keyboard

Test Model: RK-S70

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker 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	1.033	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.026	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.963	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.285	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.316	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.282	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.275	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.315	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.279	N/A	Pass

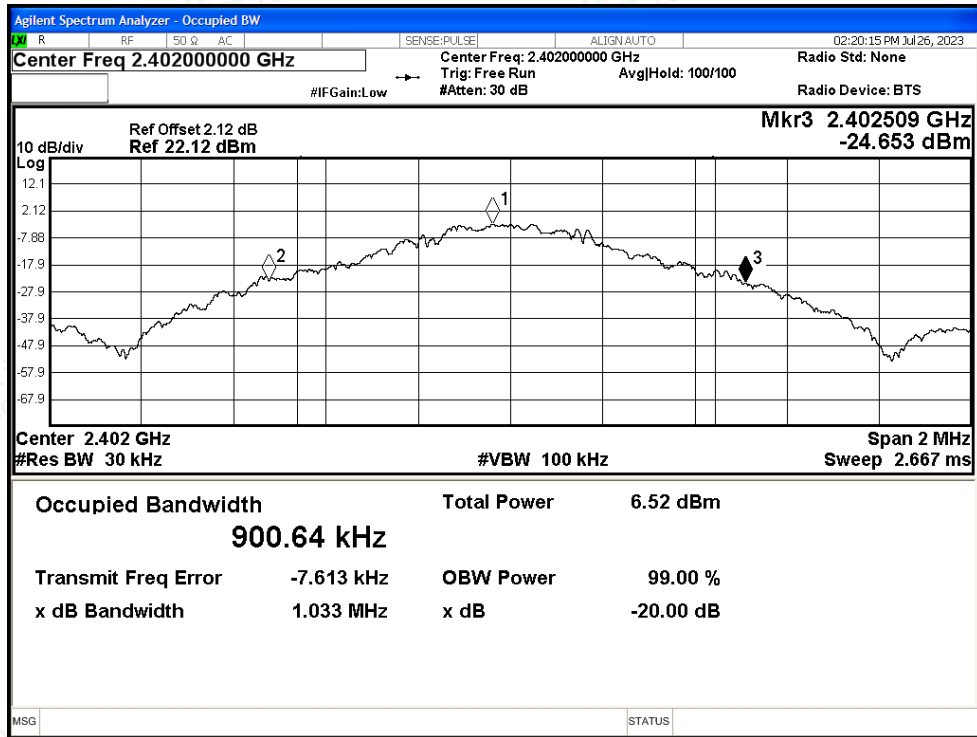


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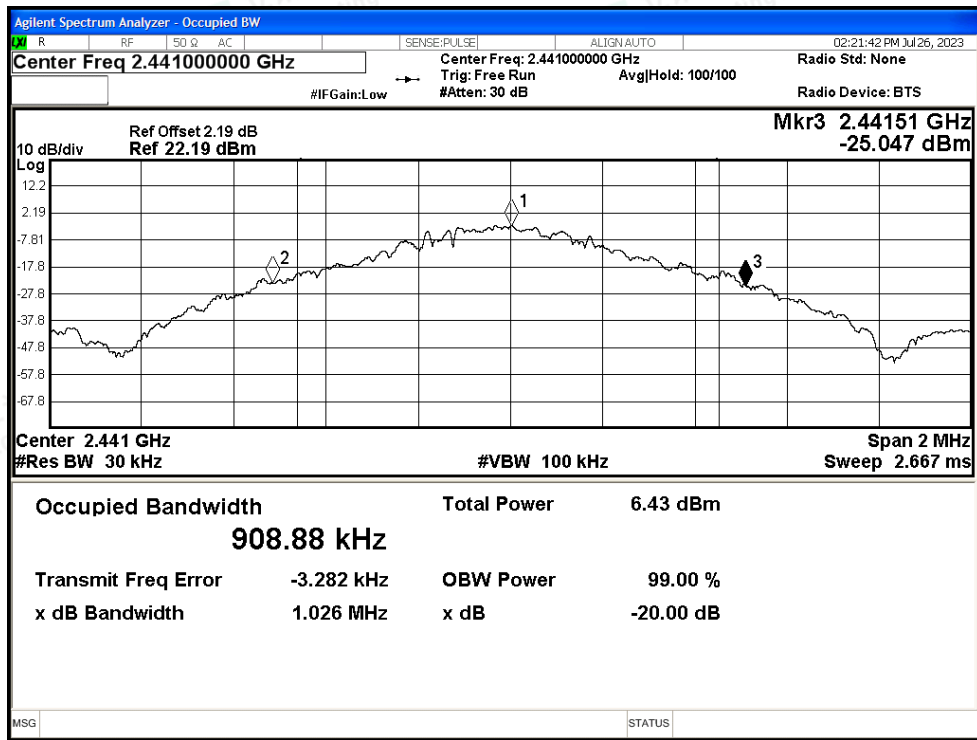


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

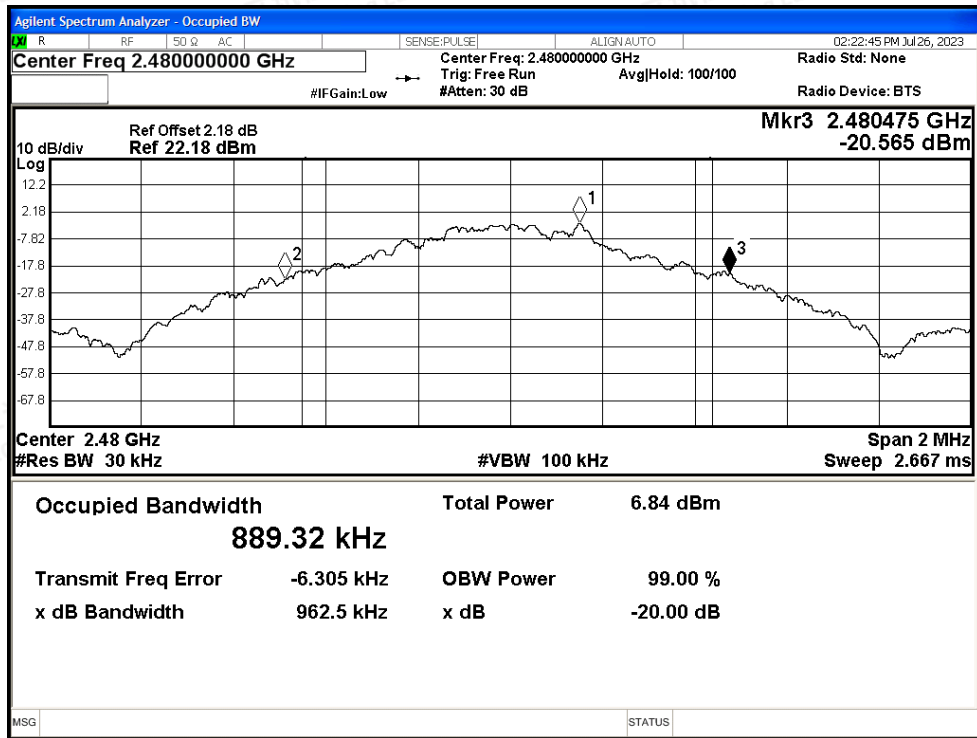


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

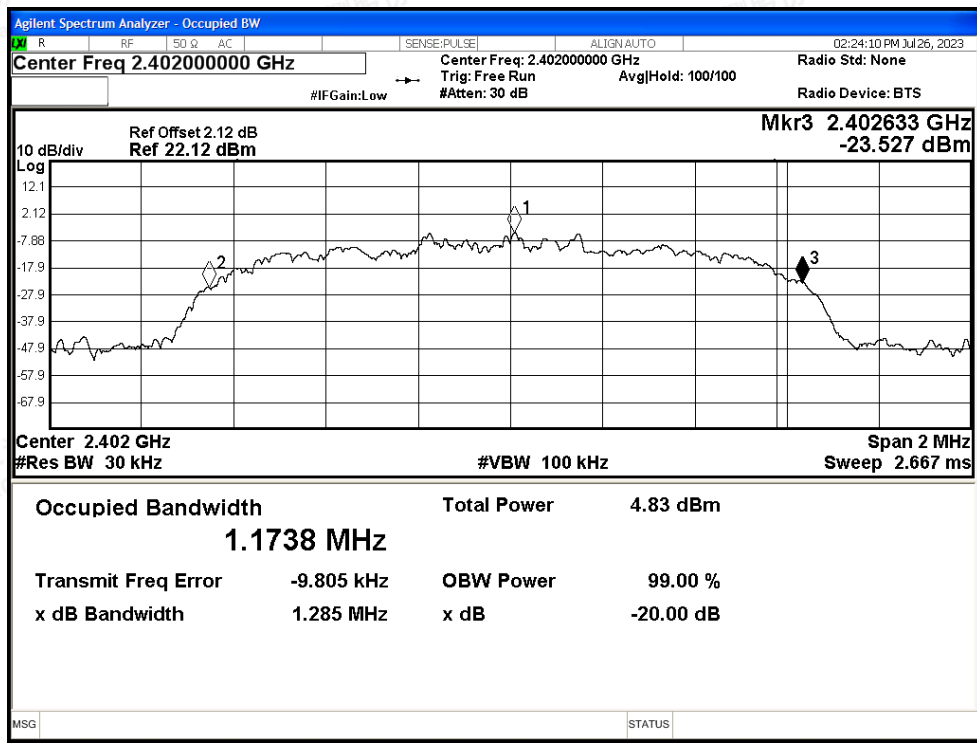




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

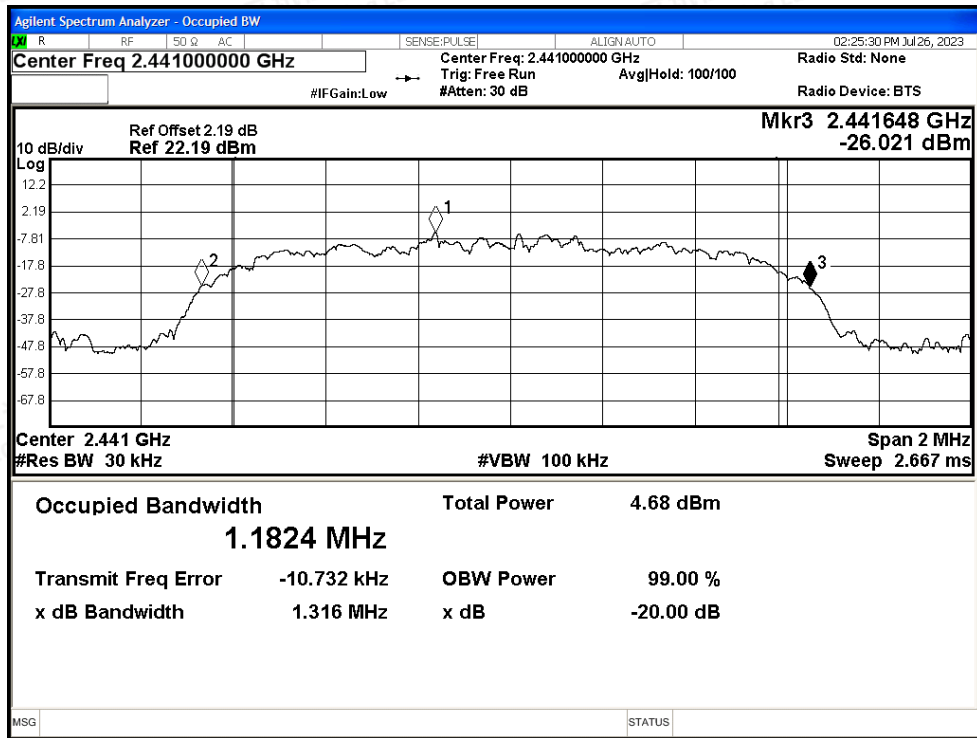


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

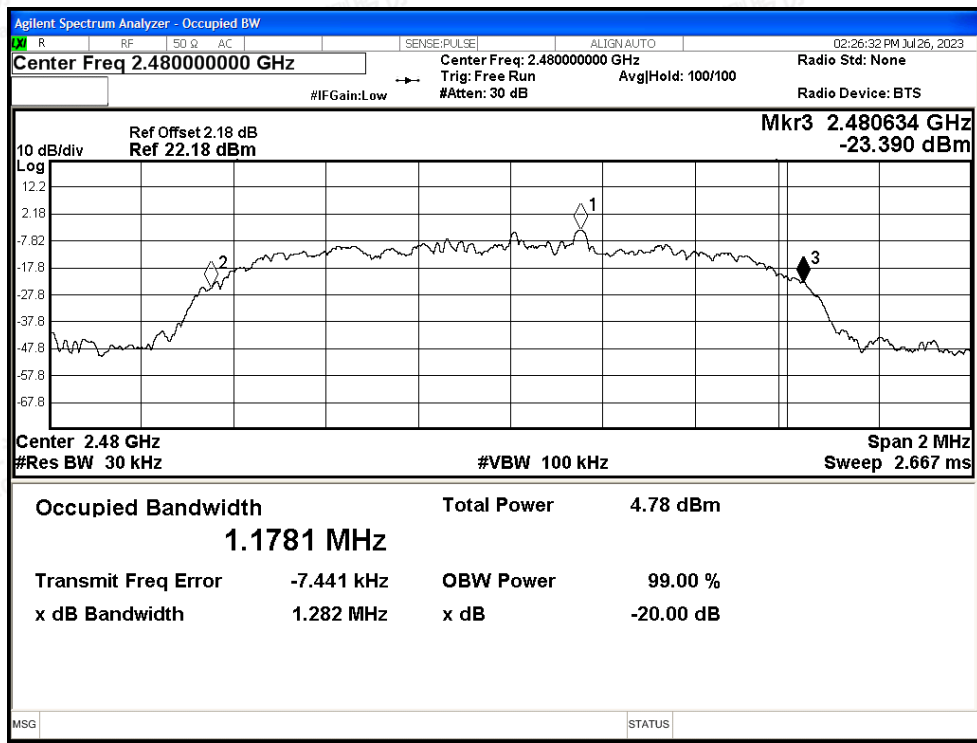




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

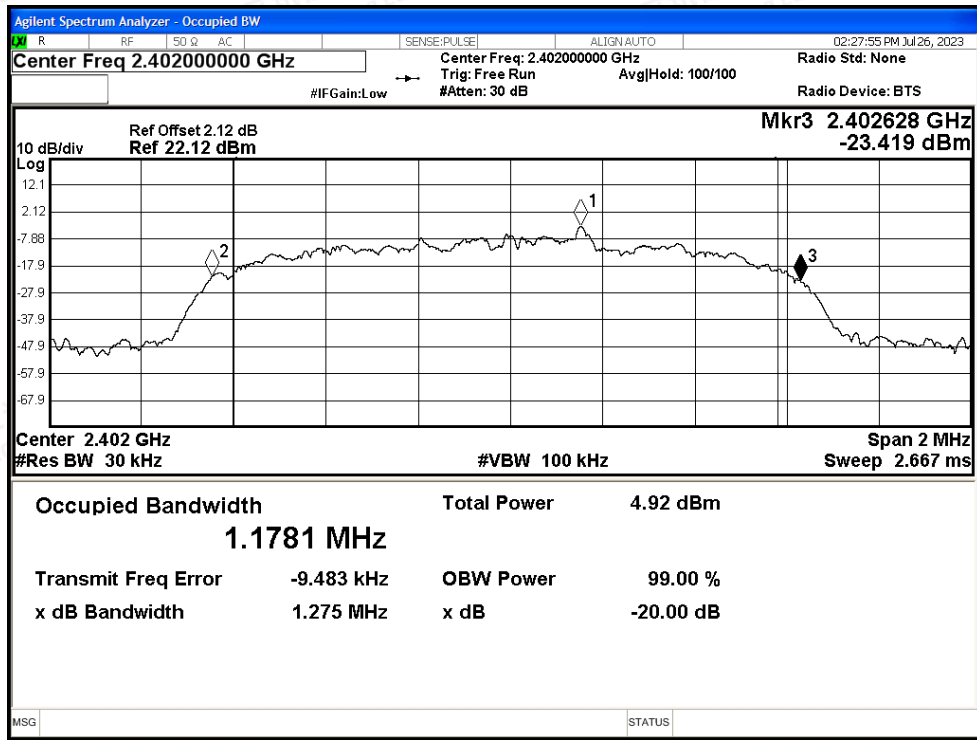


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

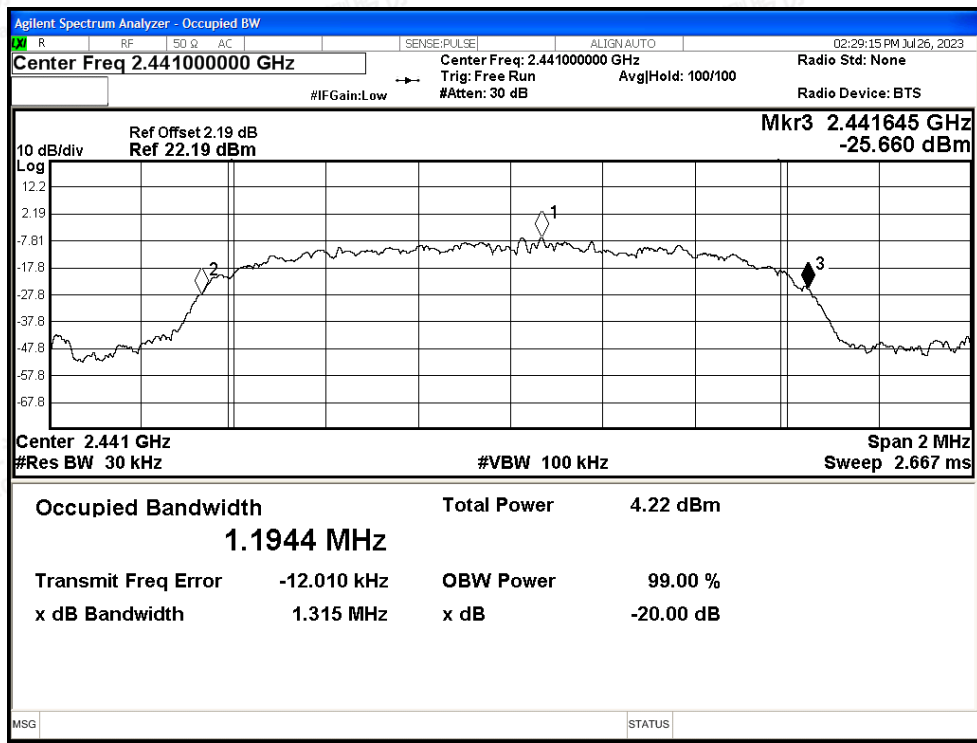




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

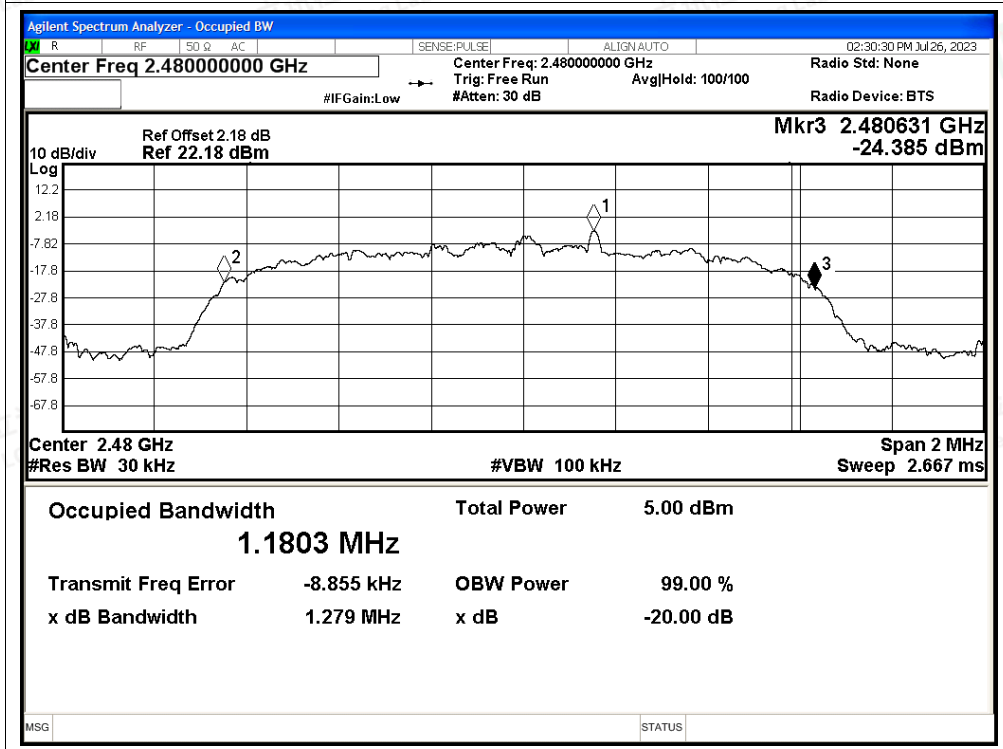


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

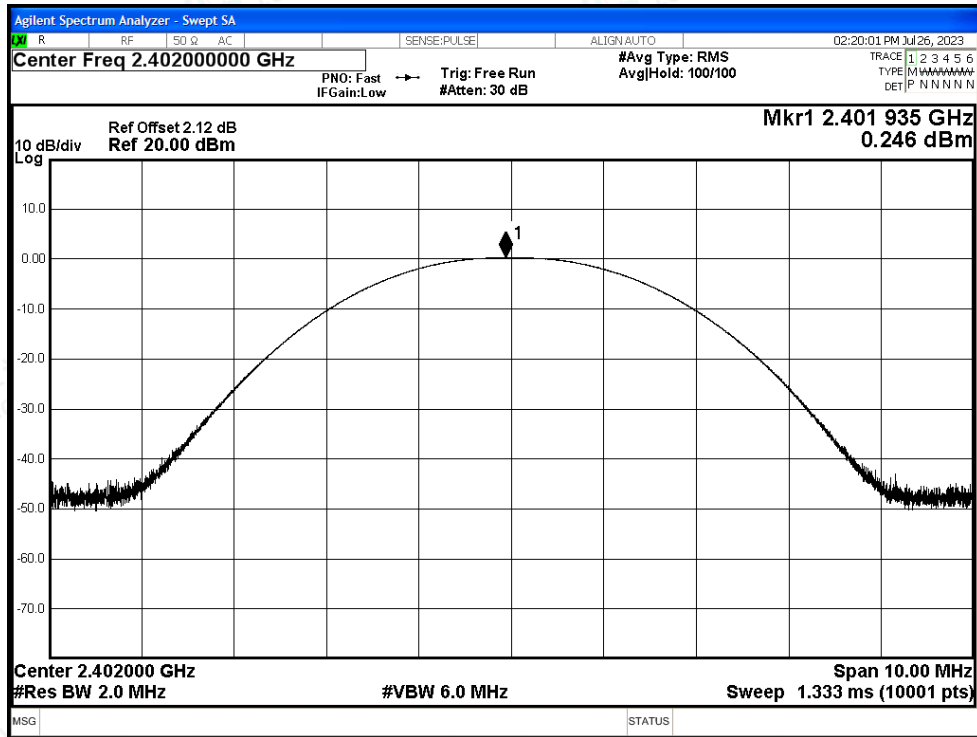
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.25	21	Pass
NVNT	1-DH5	2441	Ant1	0.43	21	Pass
NVNT	1-DH5	2480	Ant1	0.43	21	Pass
NVNT	2-DH5	2402	Ant1	0.04	21	Pass
NVNT	2-DH5	2441	Ant1	0.26	21	Pass
NVNT	2-DH5	2480	Ant1	0.20	21	Pass
NVNT	3-DH5	2402	Ant1	0.08	21	Pass
NVNT	3-DH5	2441	Ant1	0.34	21	Pass
NVNT	3-DH5	2480	Ant1	0.31	21	Pass



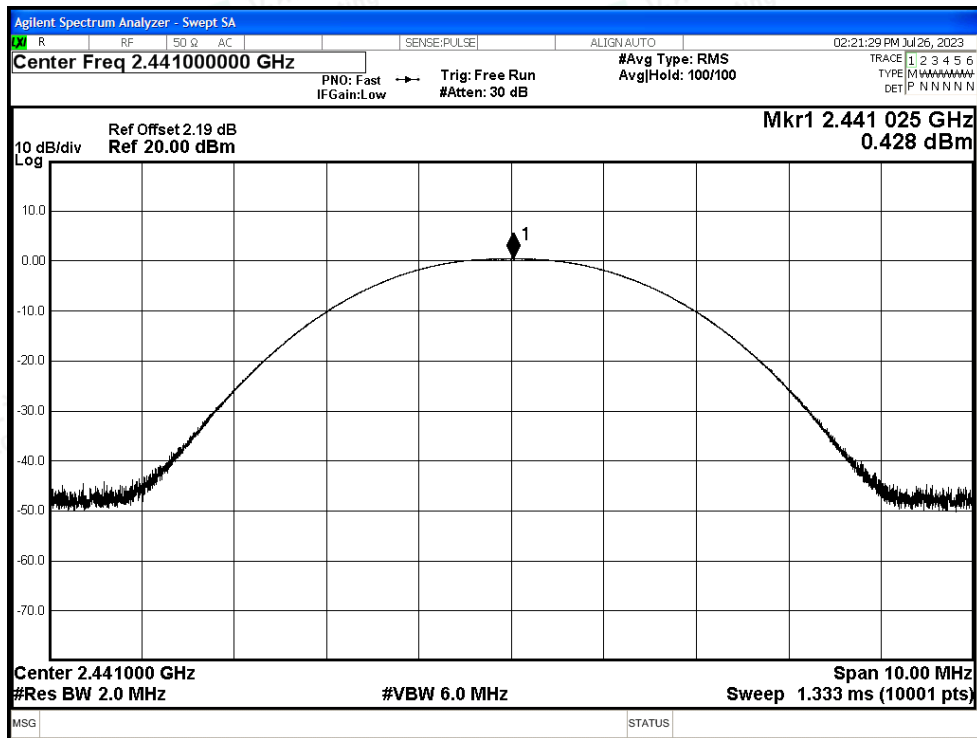


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

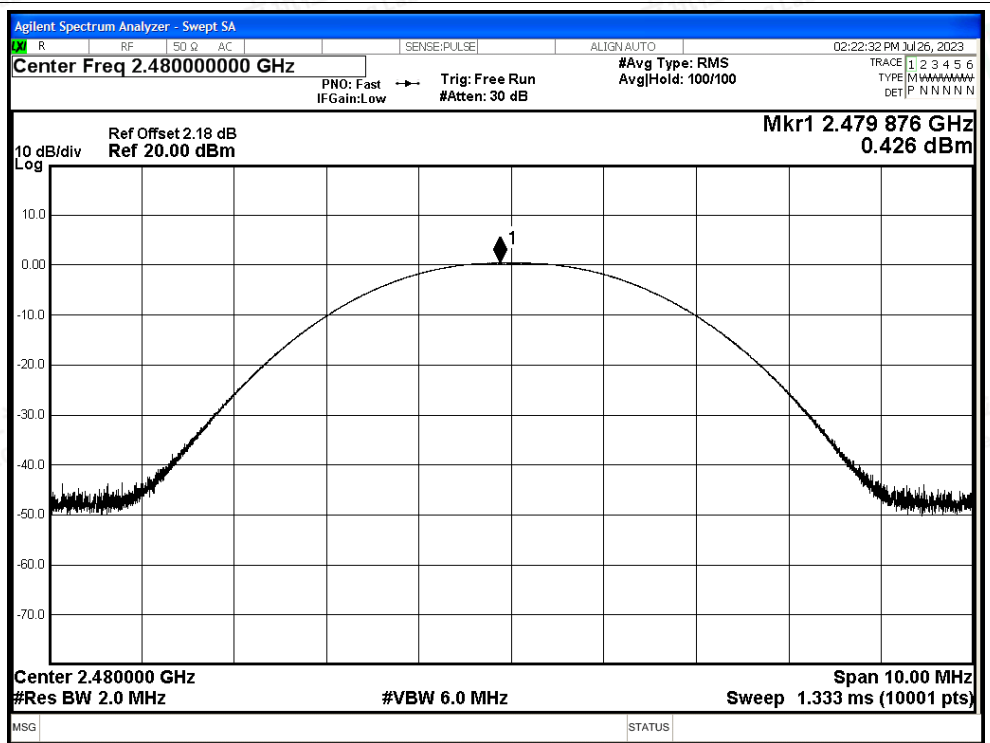


Power NVNT 1-DH5 2441MHz Ant1

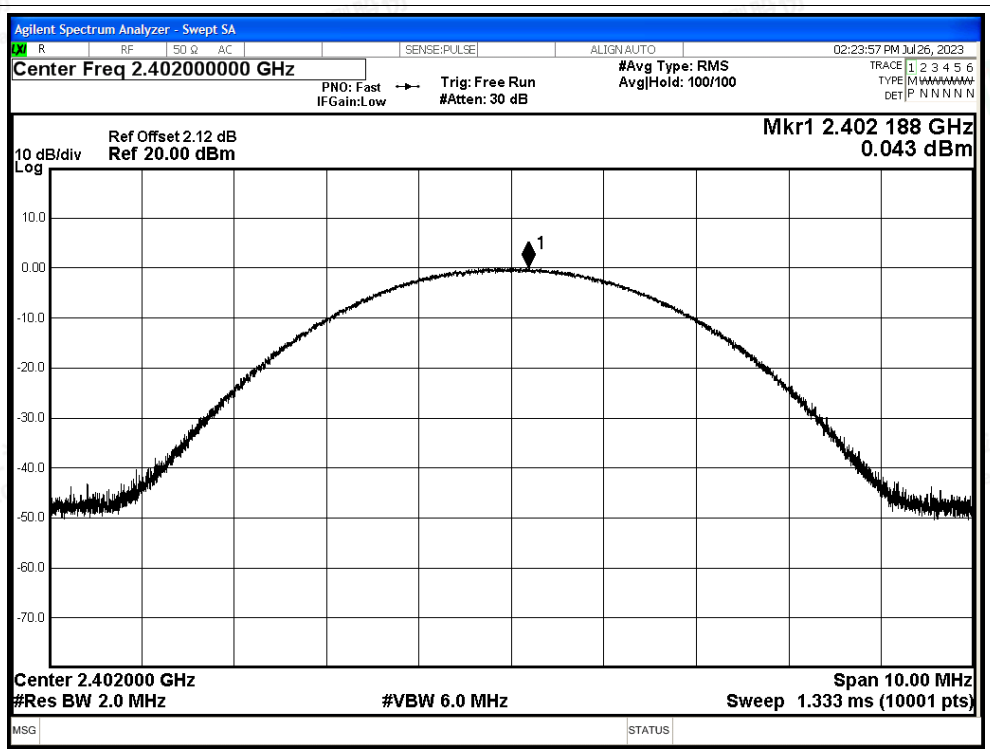




Power NVNT 1-DH5 2480MHz Ant1

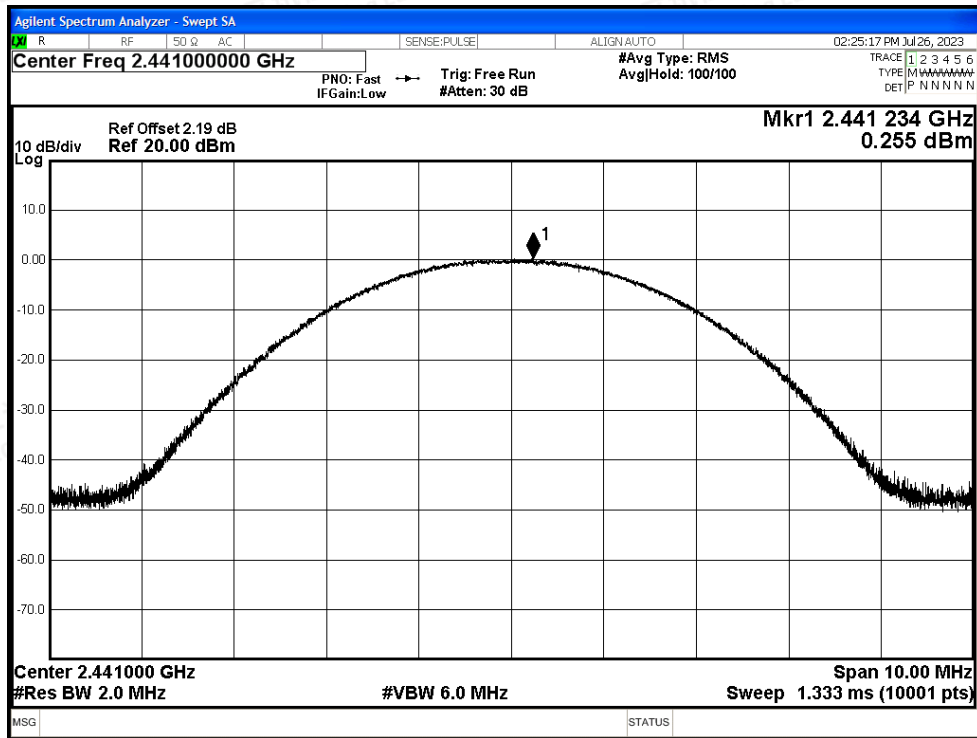


Power NVNT 2-DH5 2402MHz Ant1

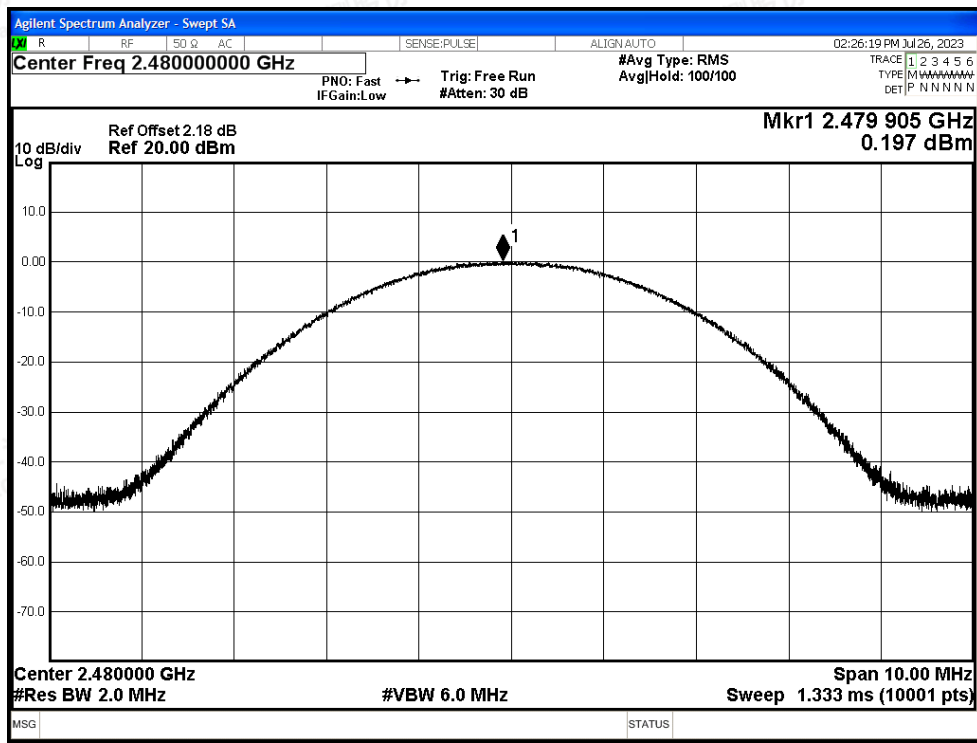




Power NVNT 2-DH5 2441MHz Ant1

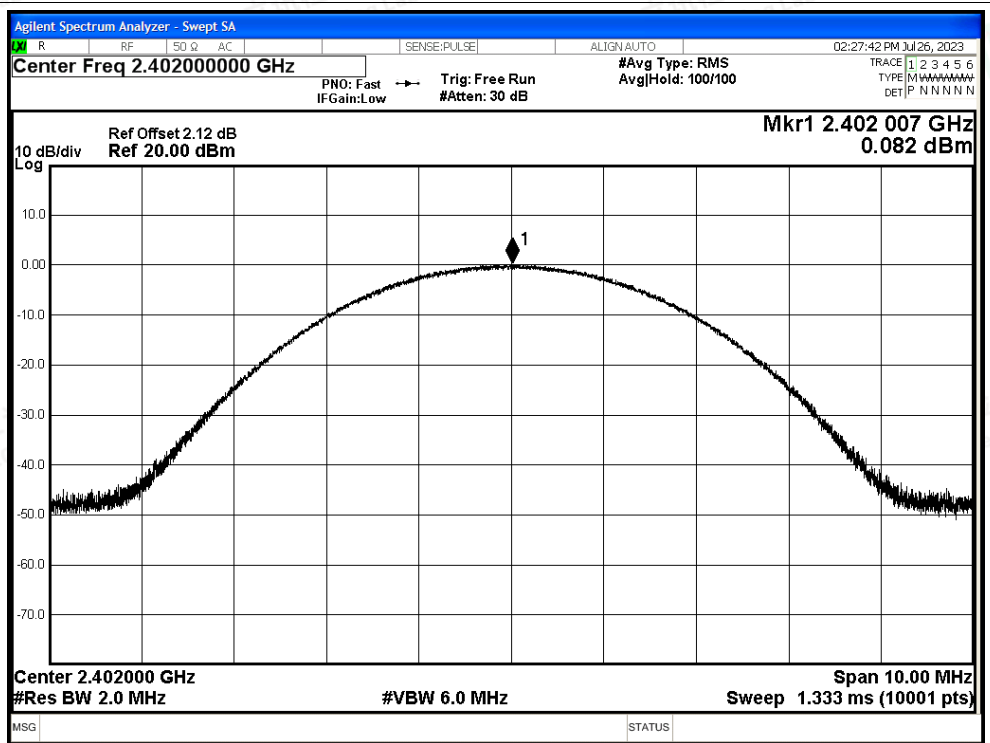


Power NVNT 2-DH5 2480MHz Ant1

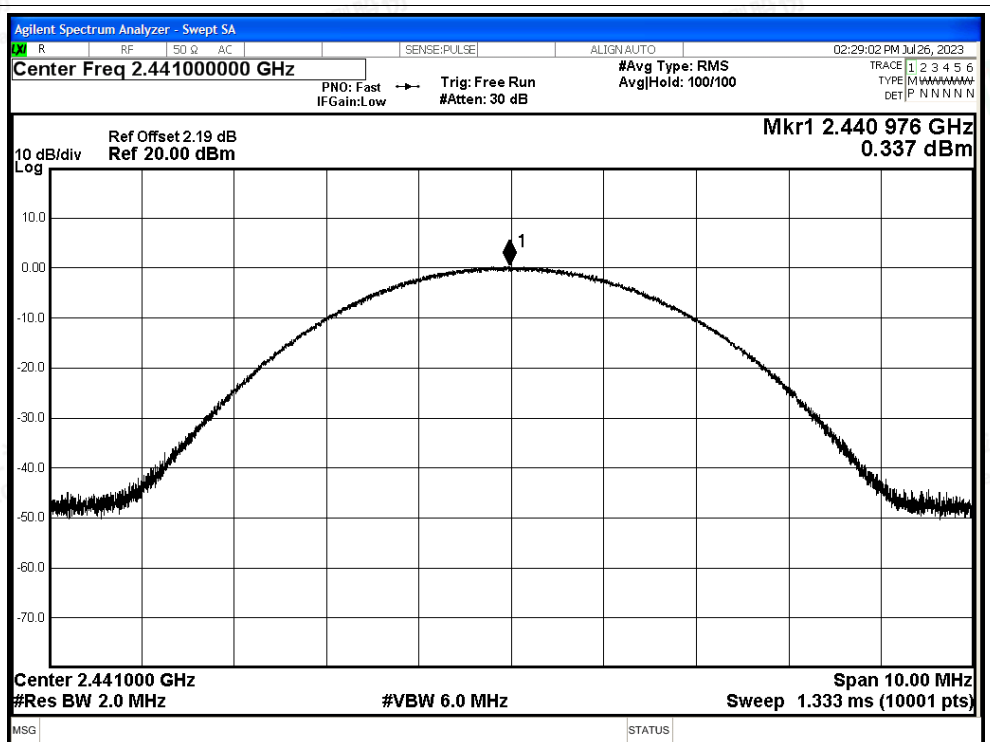


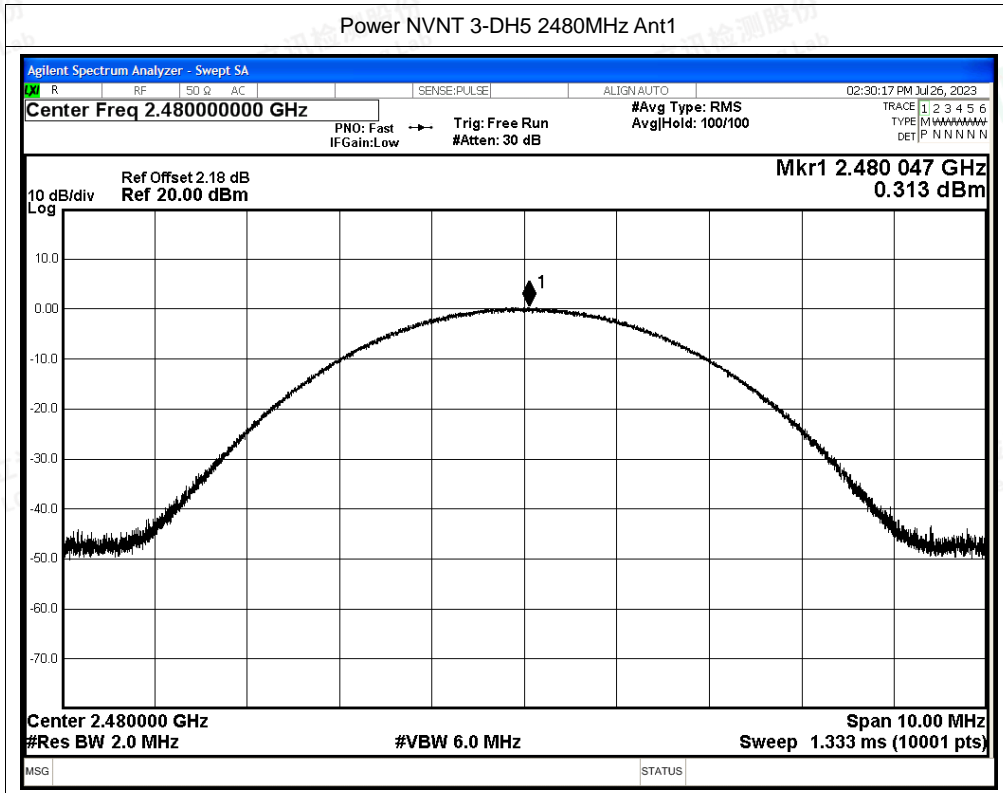


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

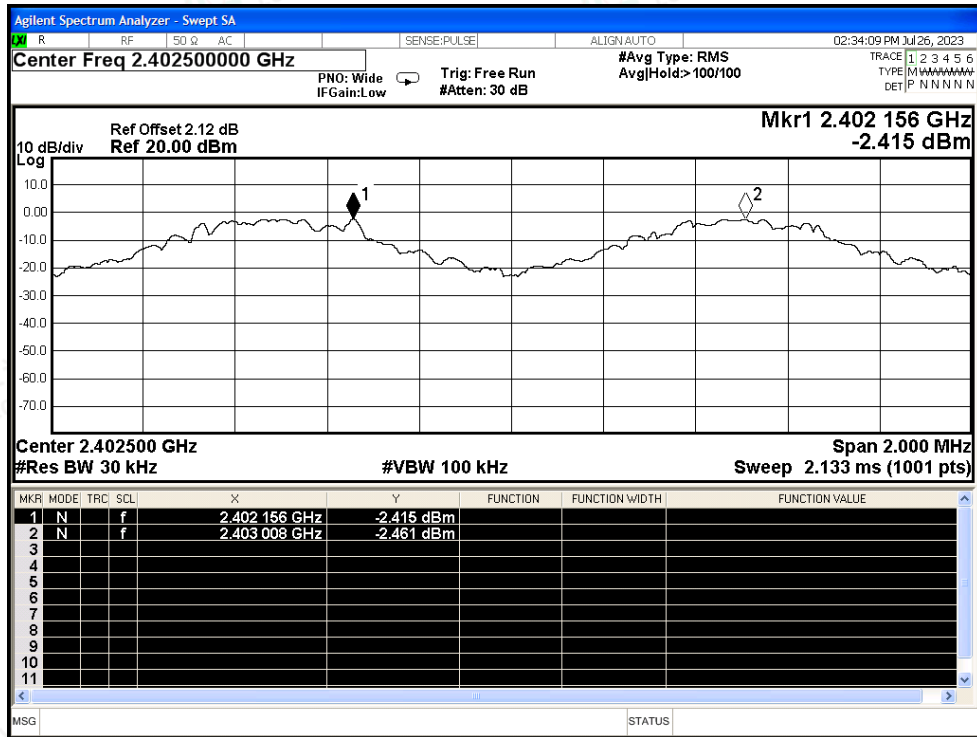
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.156	2403.008	0.852	0.689	Pass
NVNT	2-DH5	Ant1	2402.014	2403.162	1.148	0.877	Pass
NVNT	3-DH5	Ant1	2402.142	2403.154	1.012	0.877	Pass



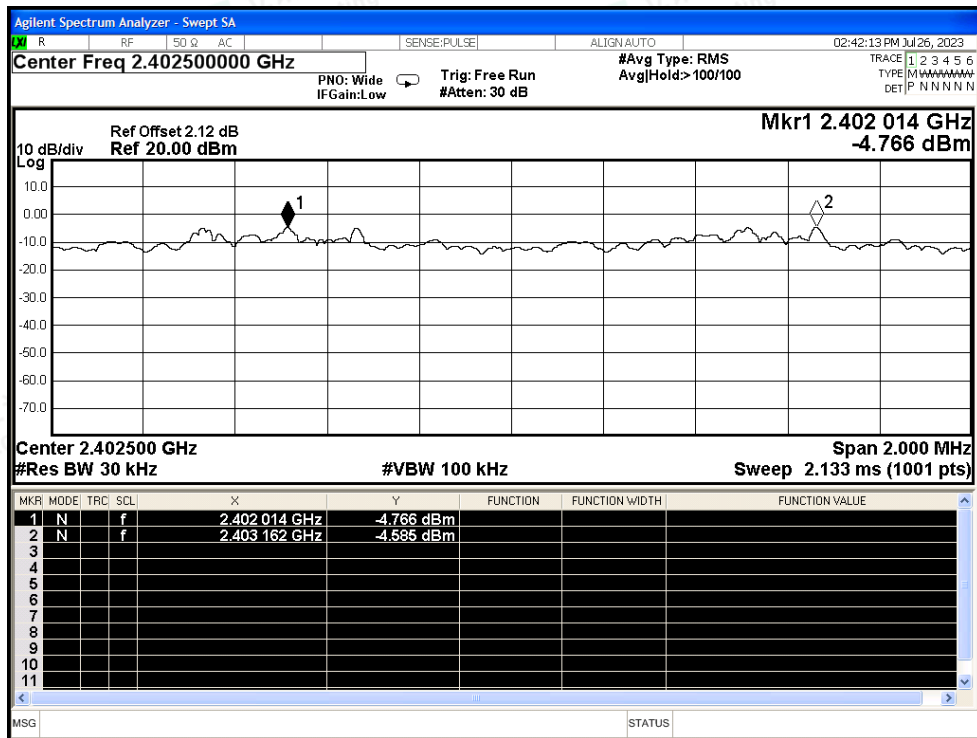


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

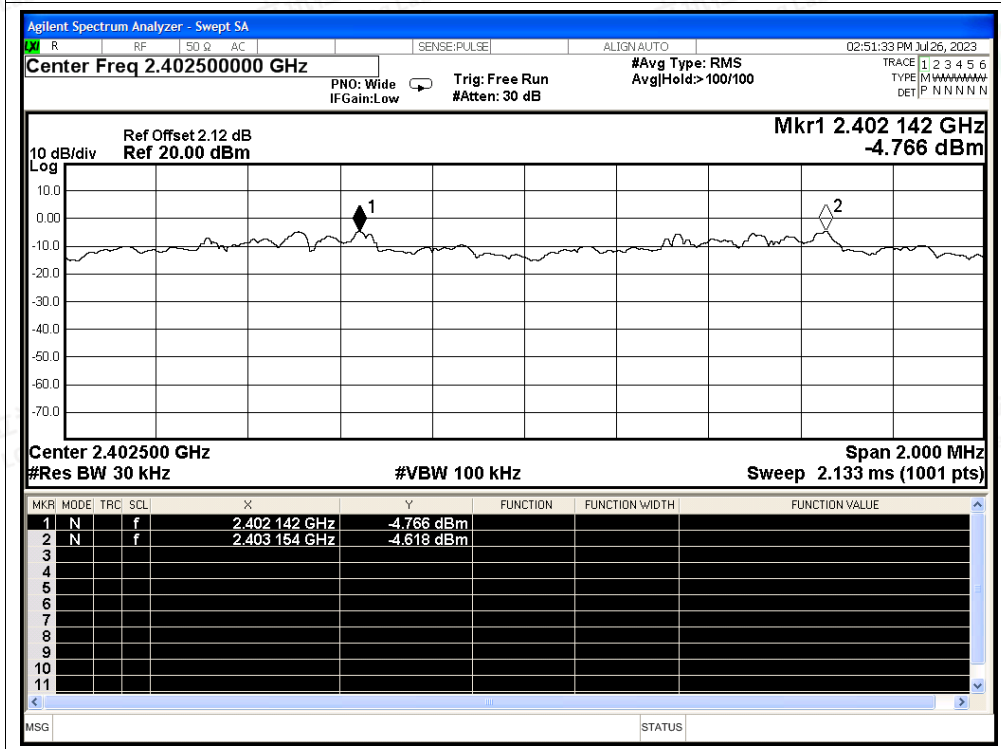


CFS NVNT 2-DH5 2402MHz Ant1





CFS NVNT 3-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	244.97	85	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	296.64	103	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	291.486	101	31600	400	Pass

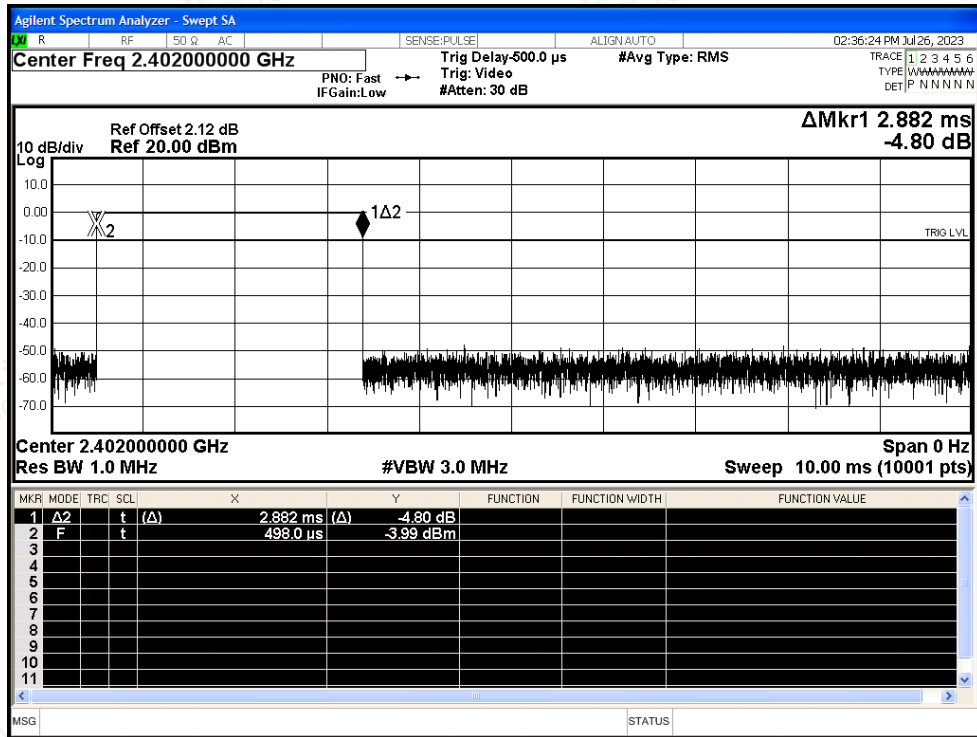


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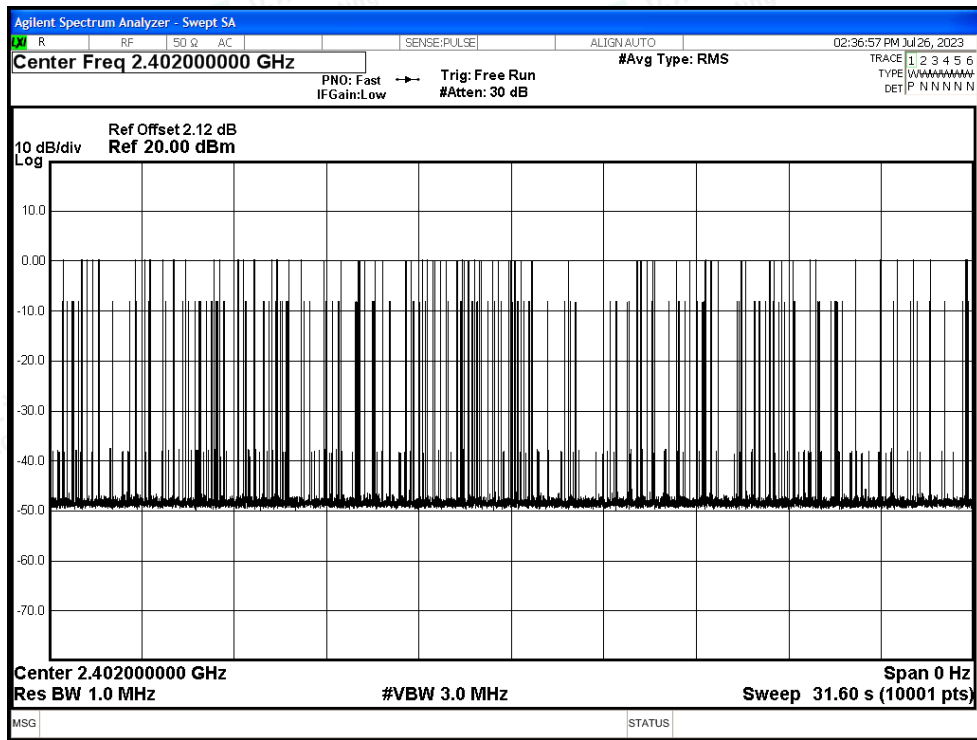


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

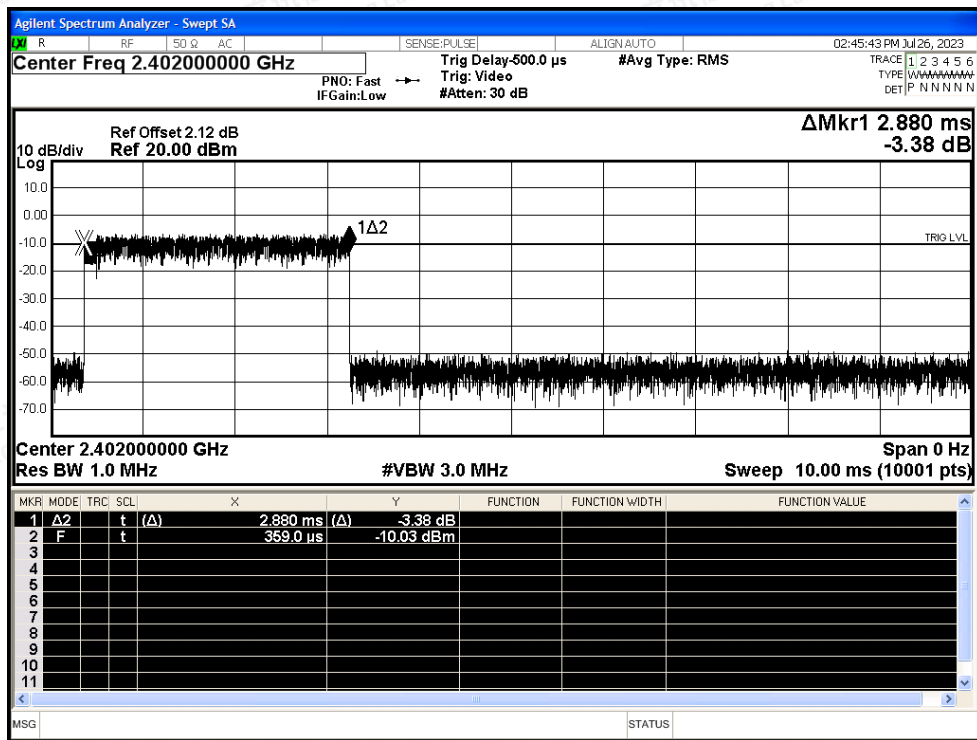


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

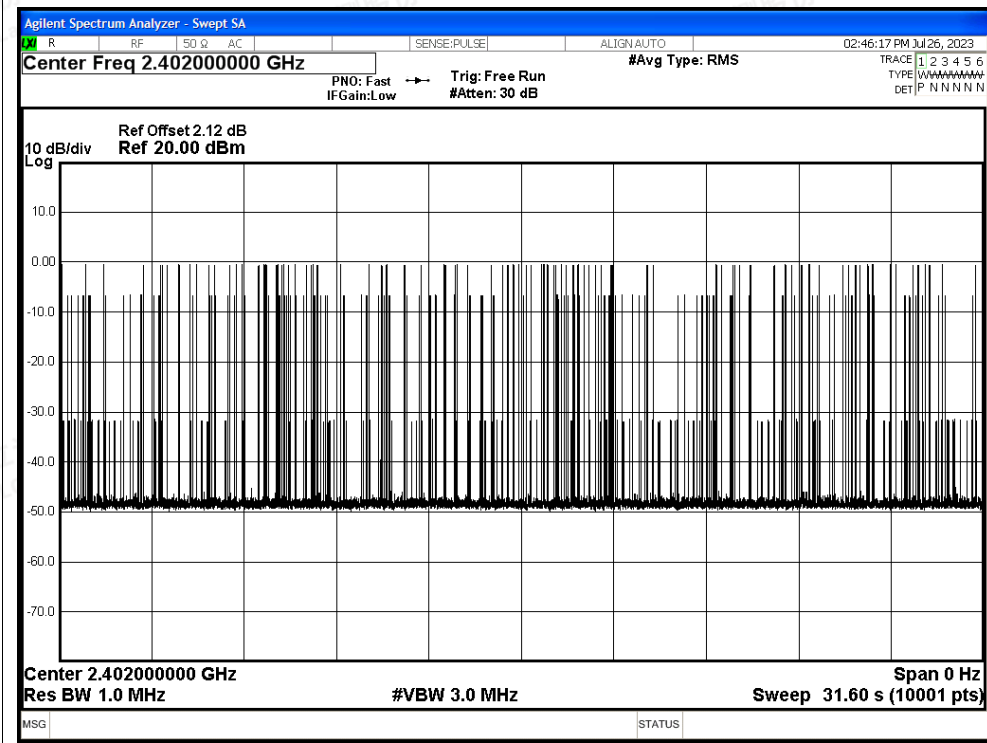




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

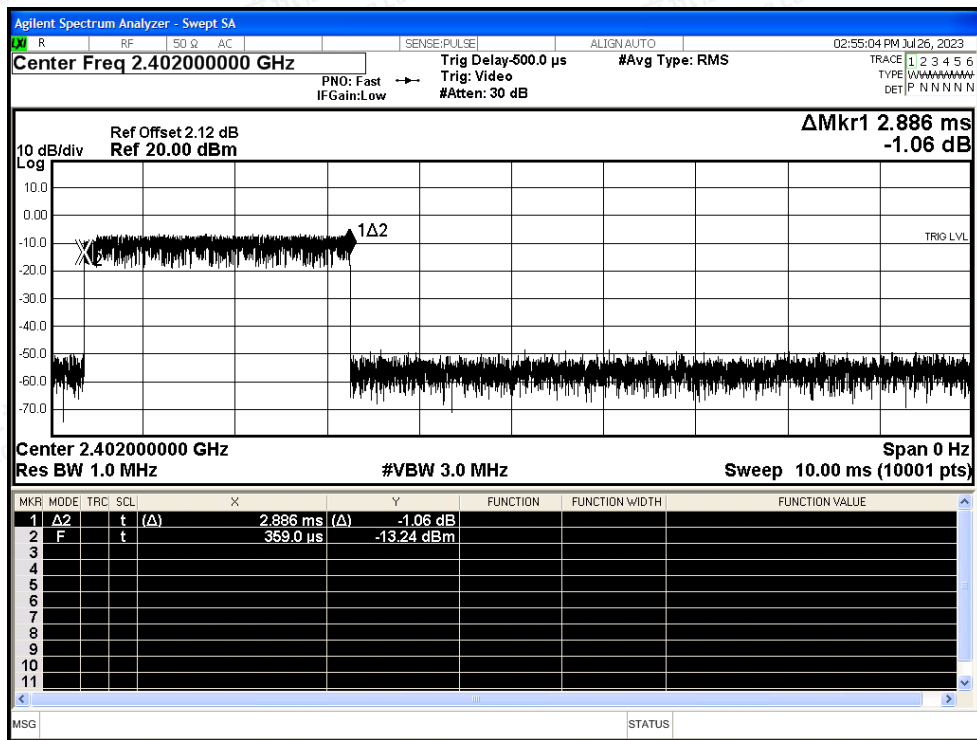


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

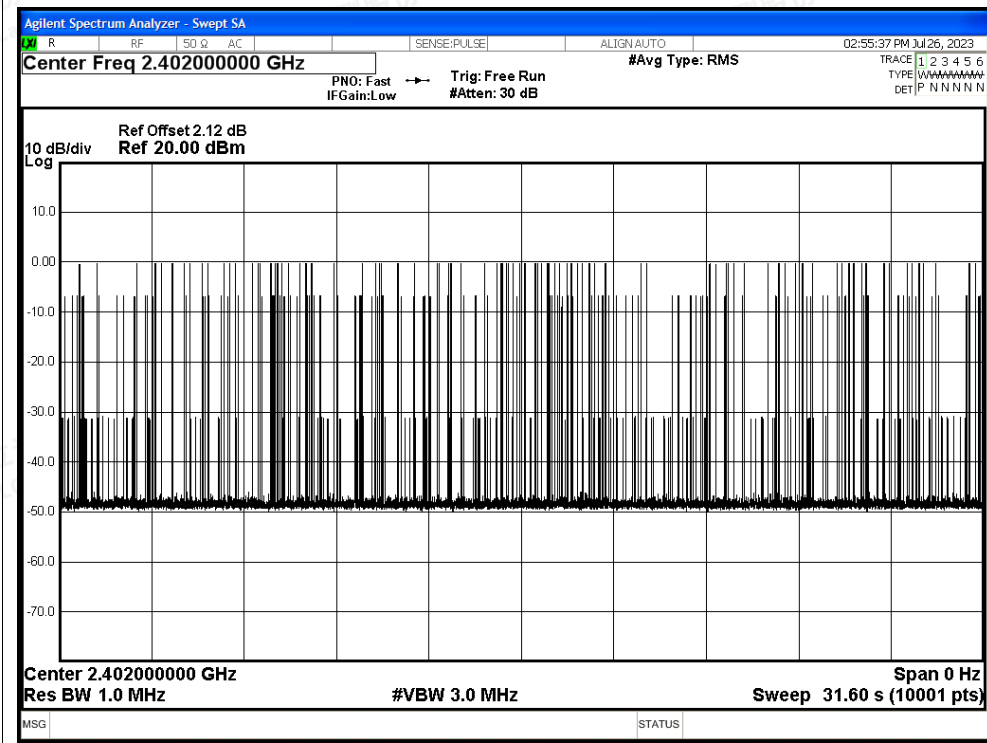




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

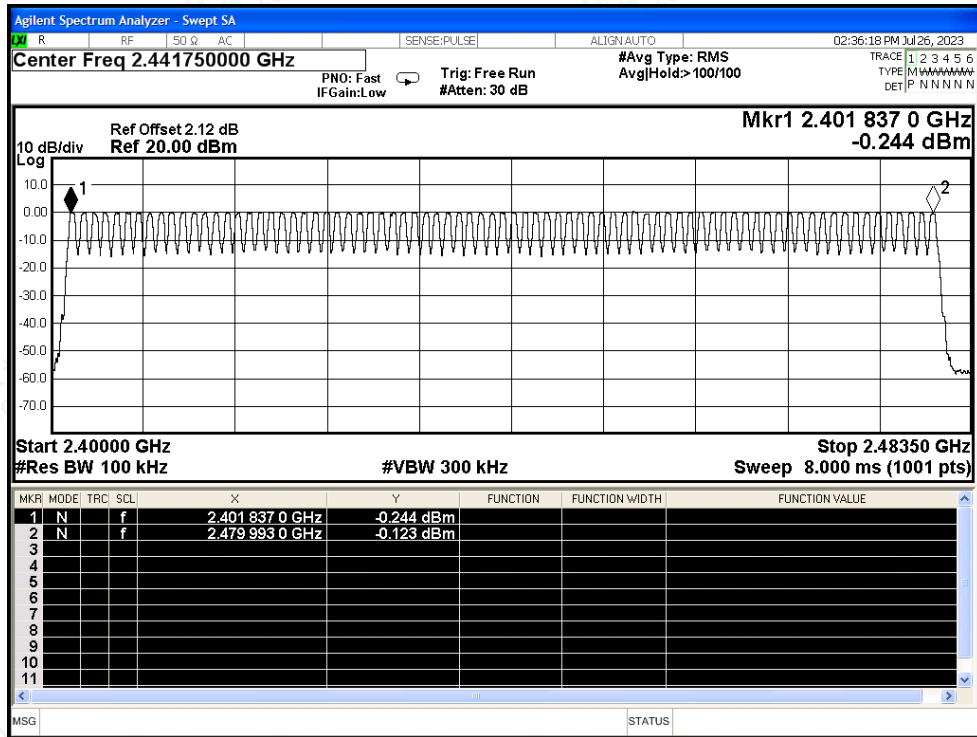
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



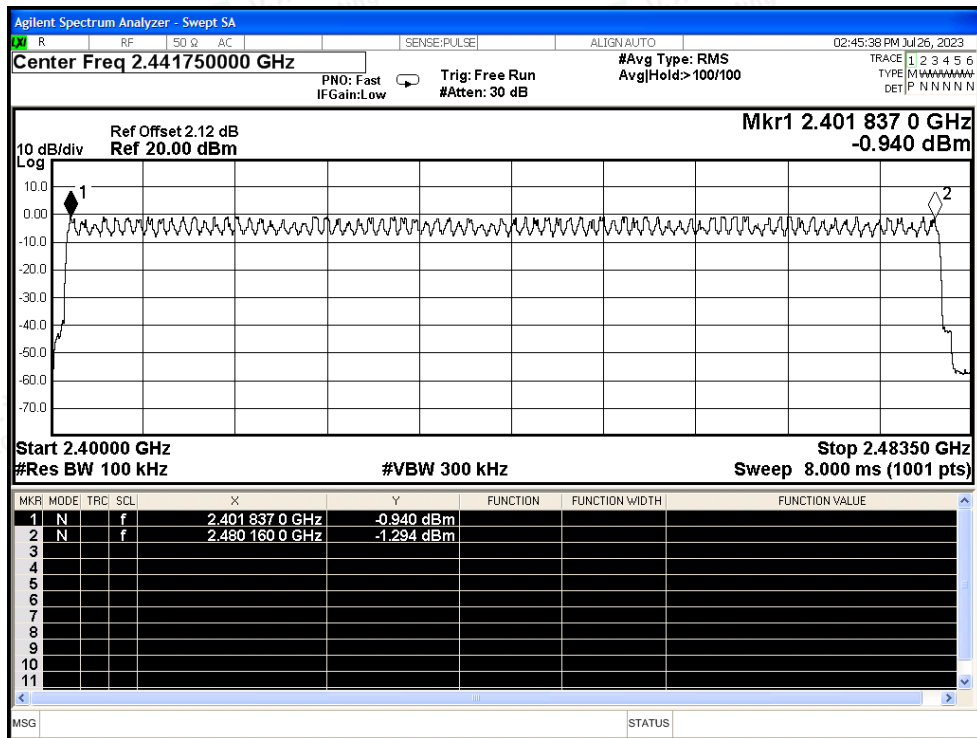


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

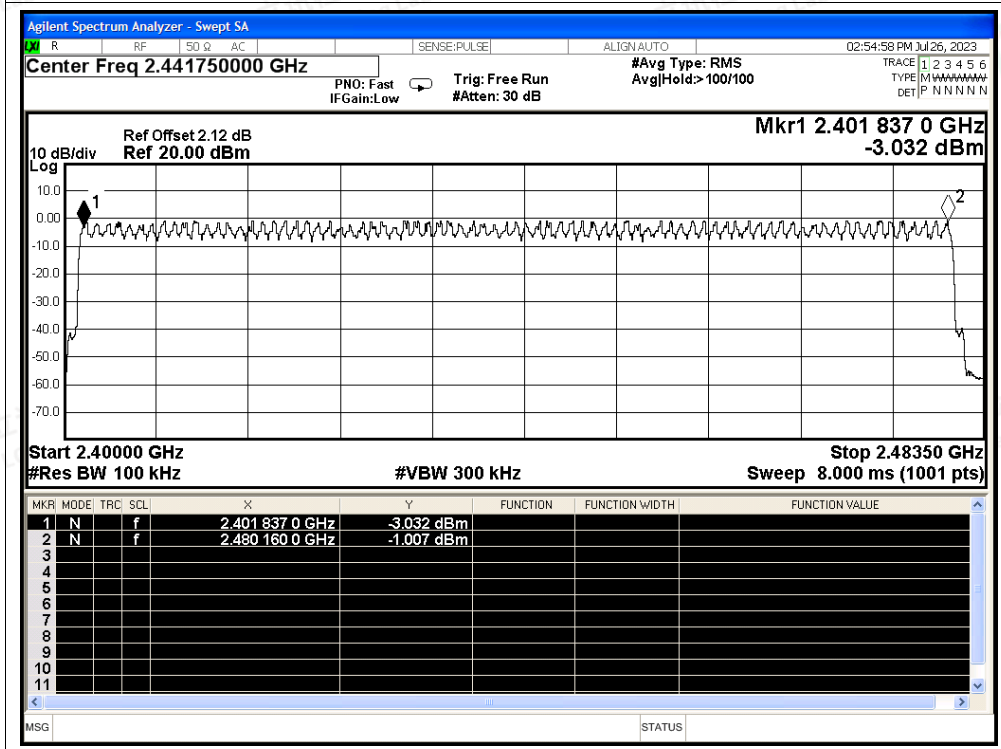


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

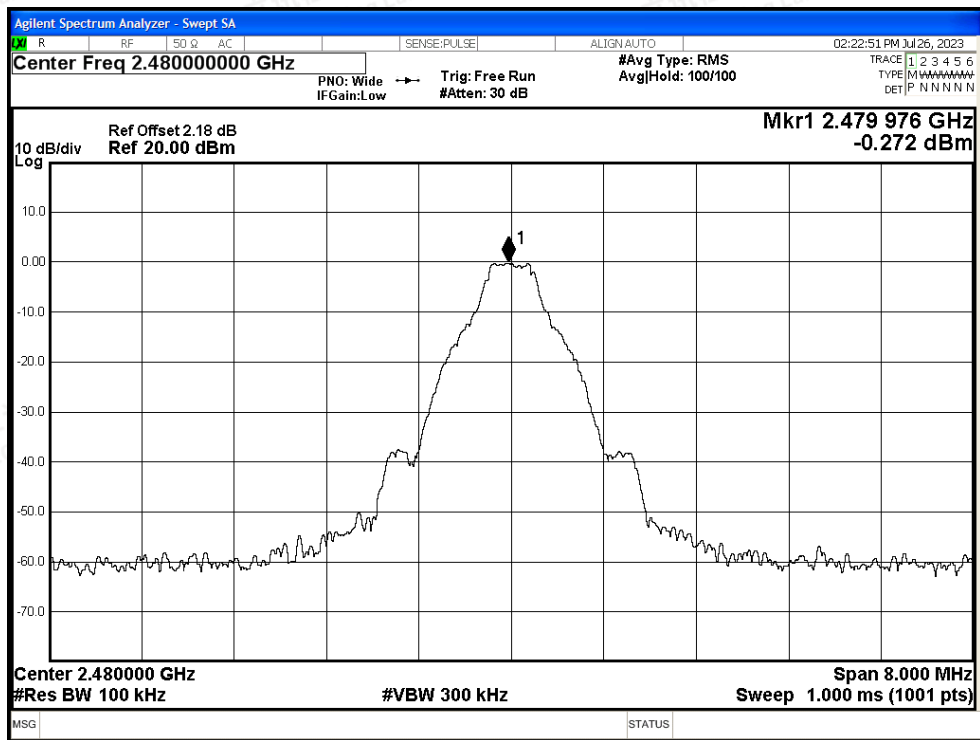
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.89	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.77	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-49.93	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.31	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.62	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-52.75	-20	Pass



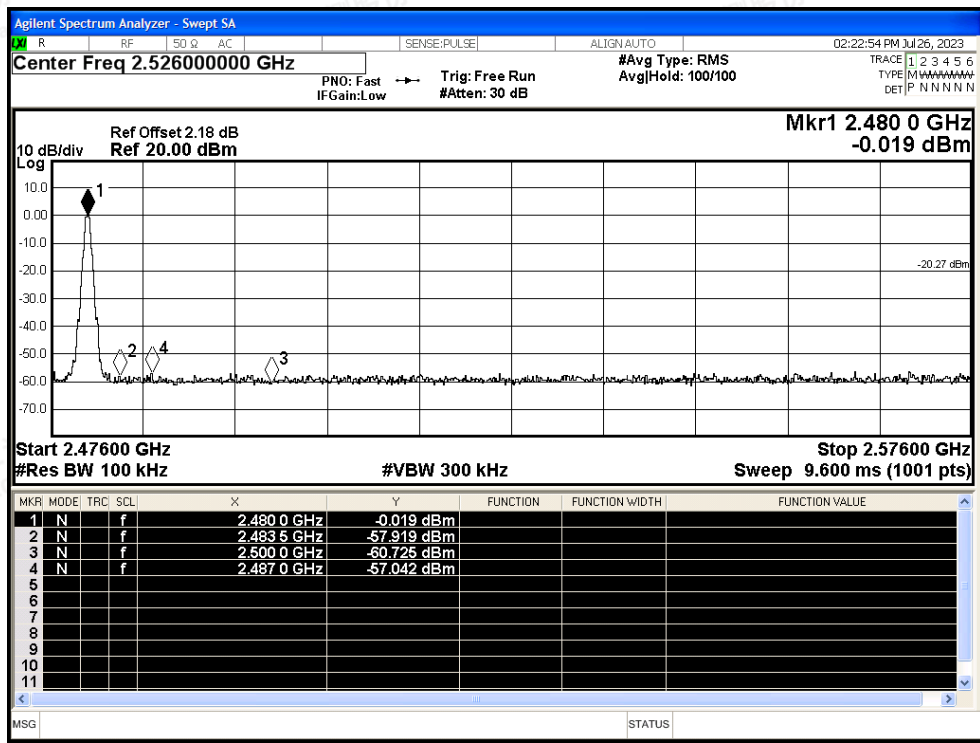
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

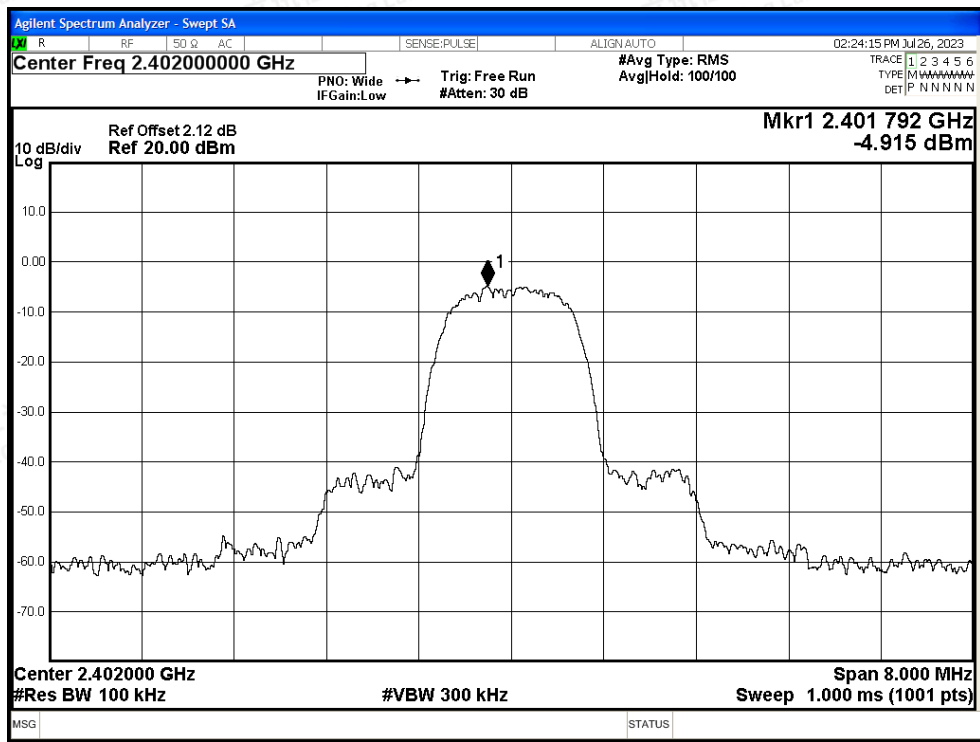


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

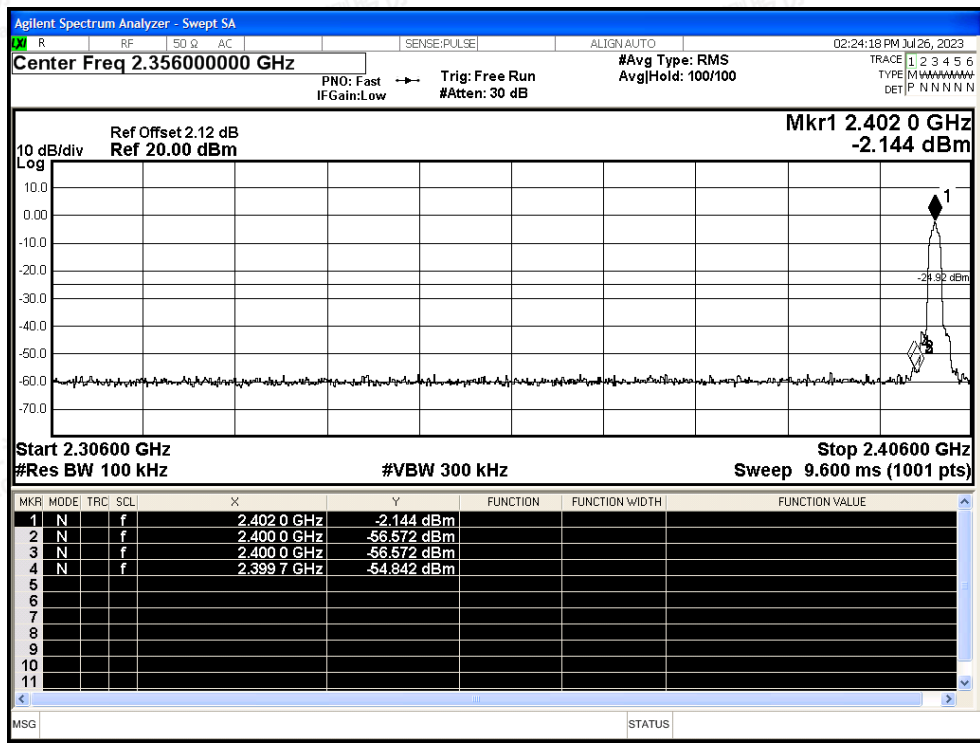




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

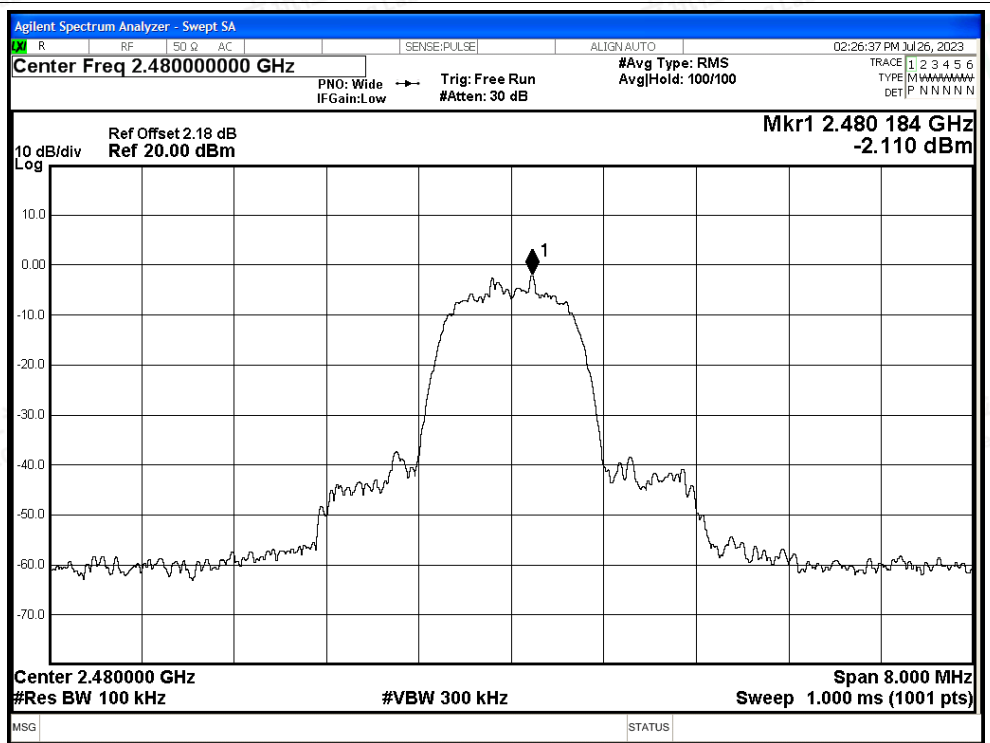


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

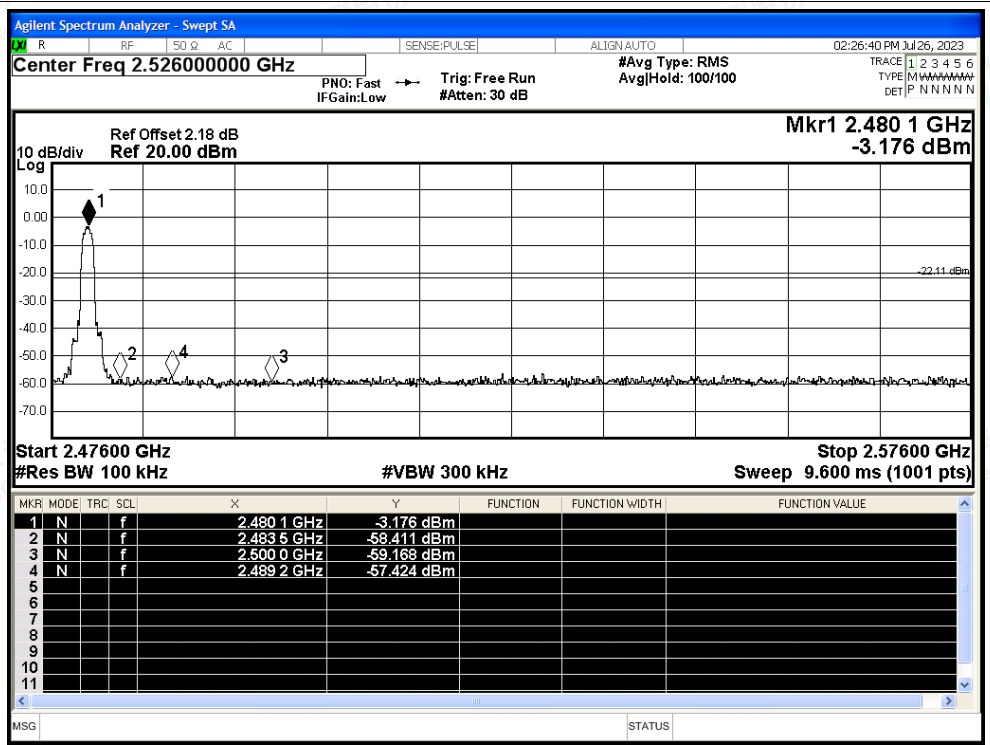




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

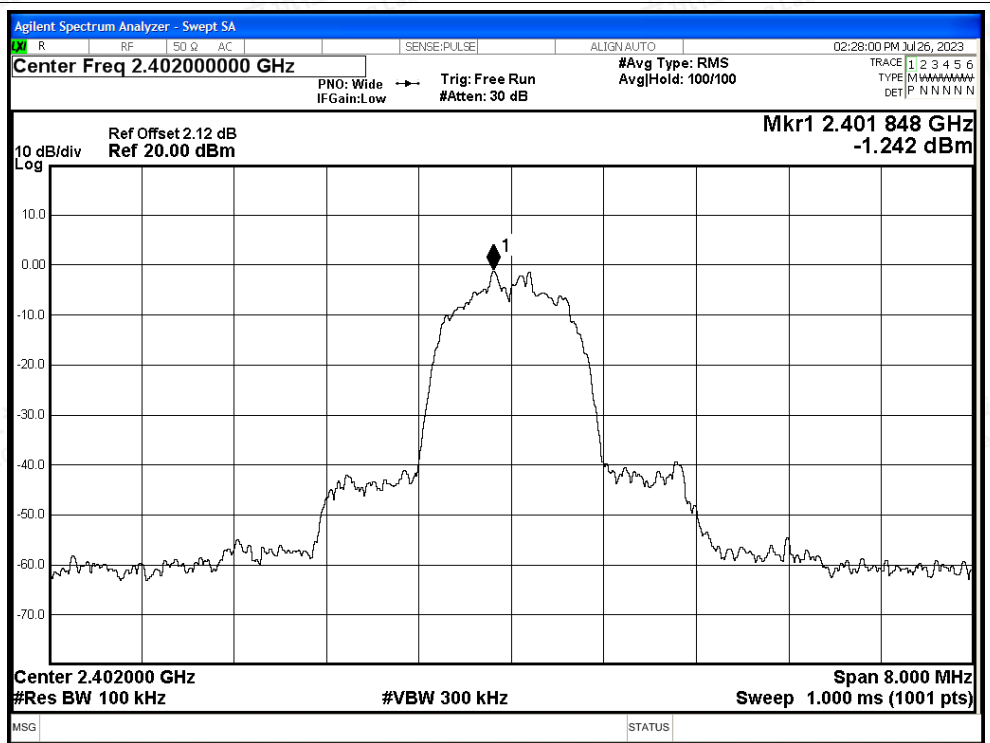


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

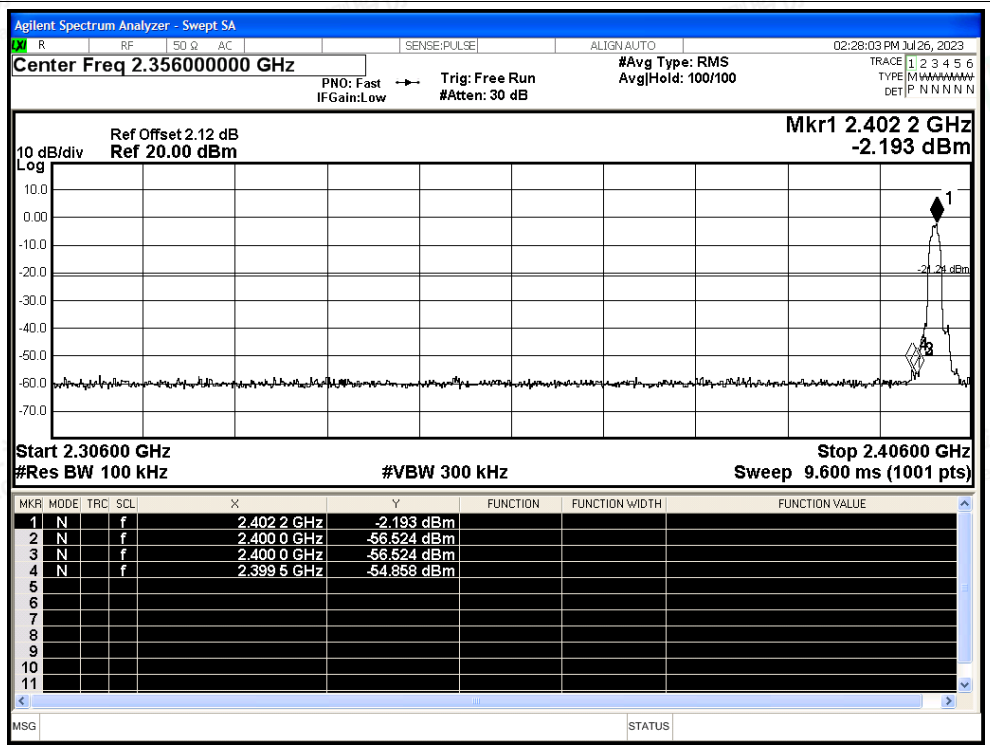




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

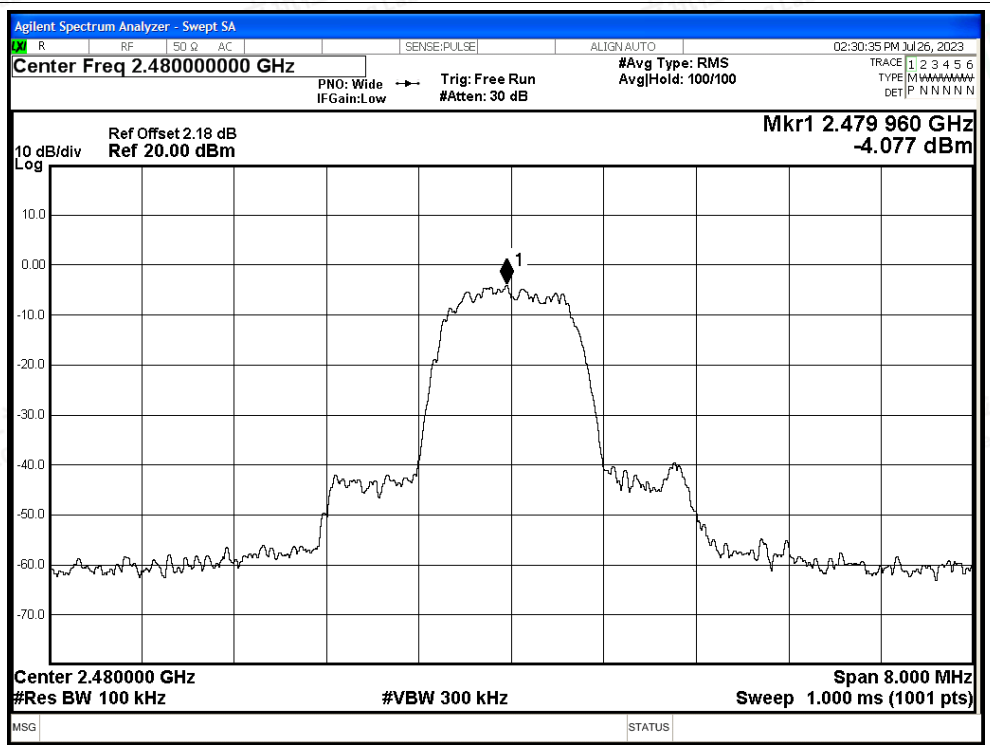


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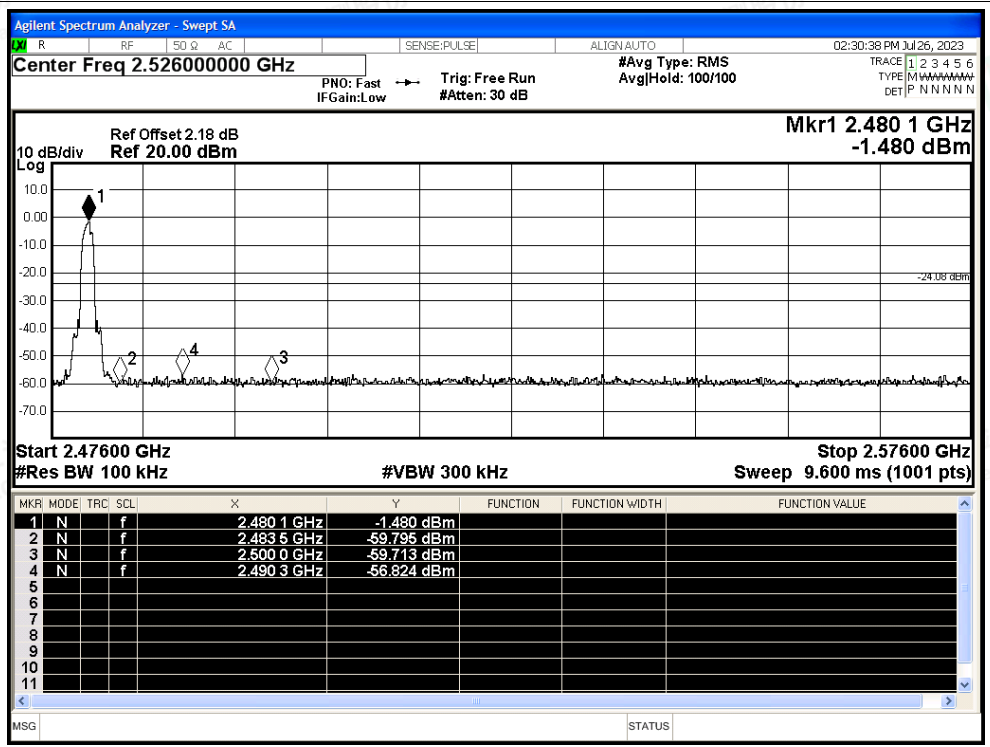




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-55.42	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.64	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.19	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.41	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.58	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.53	-20	Pass

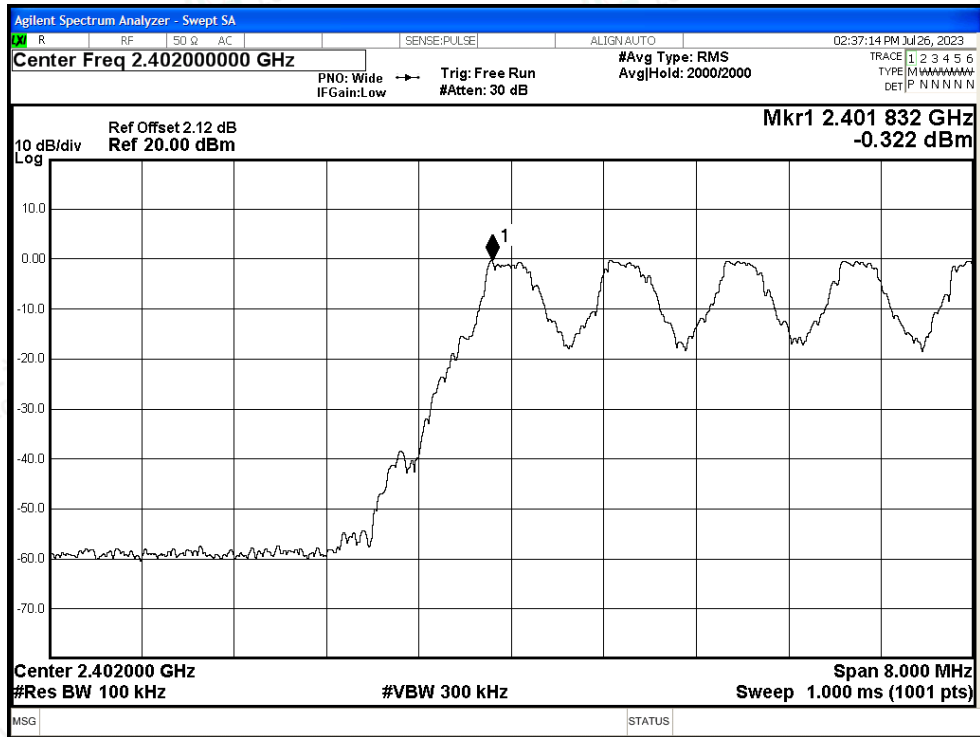


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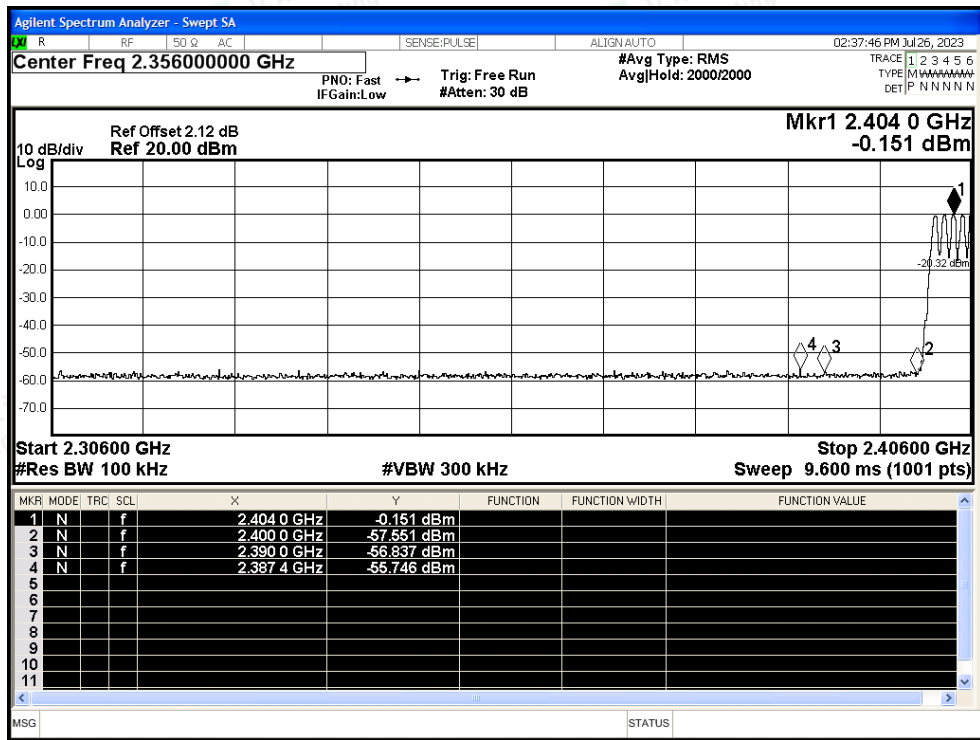


Test Graphs

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

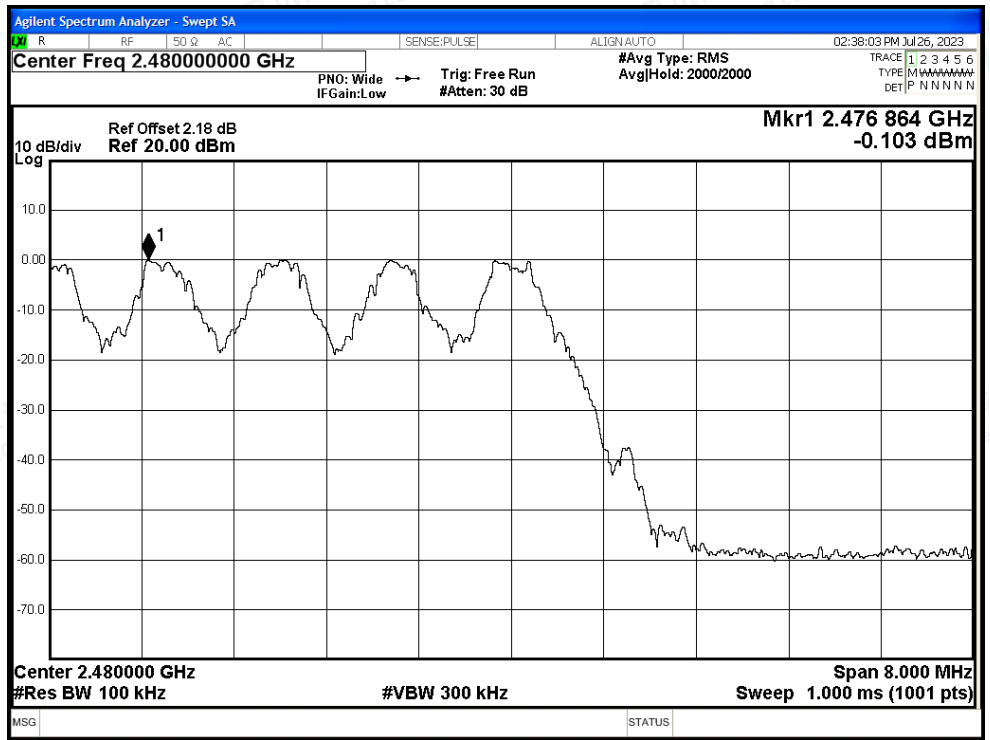


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

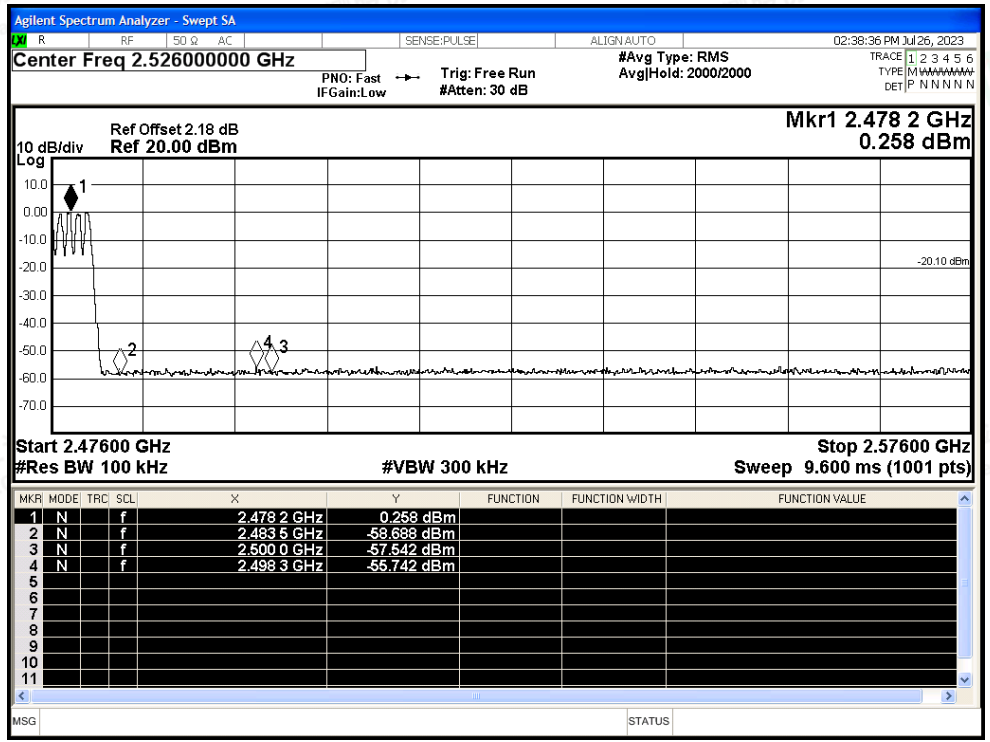




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

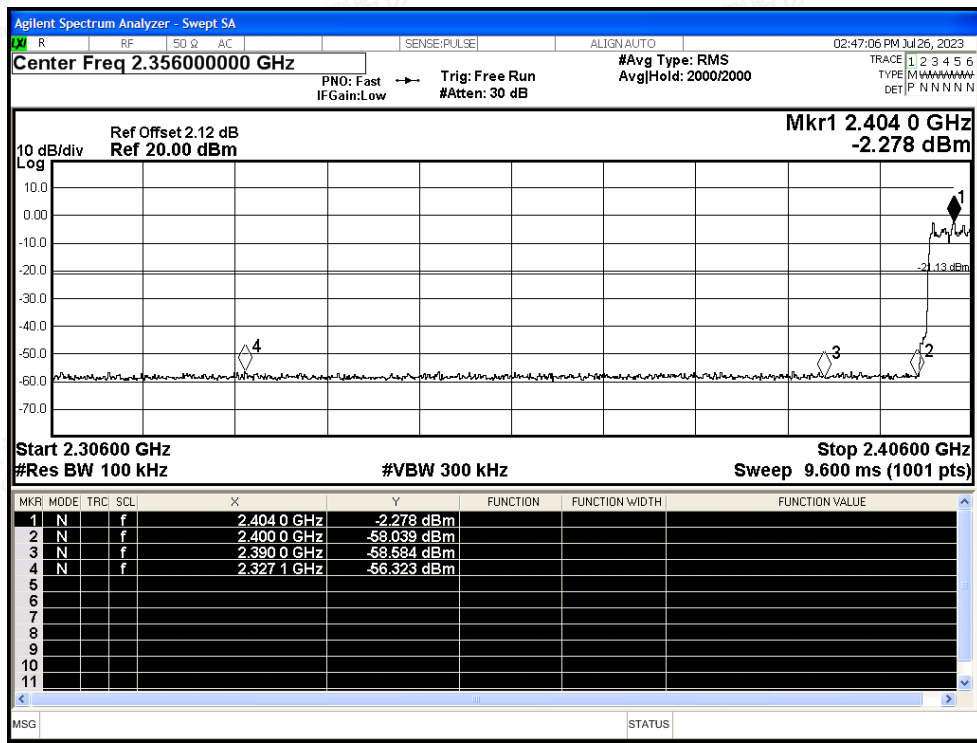




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

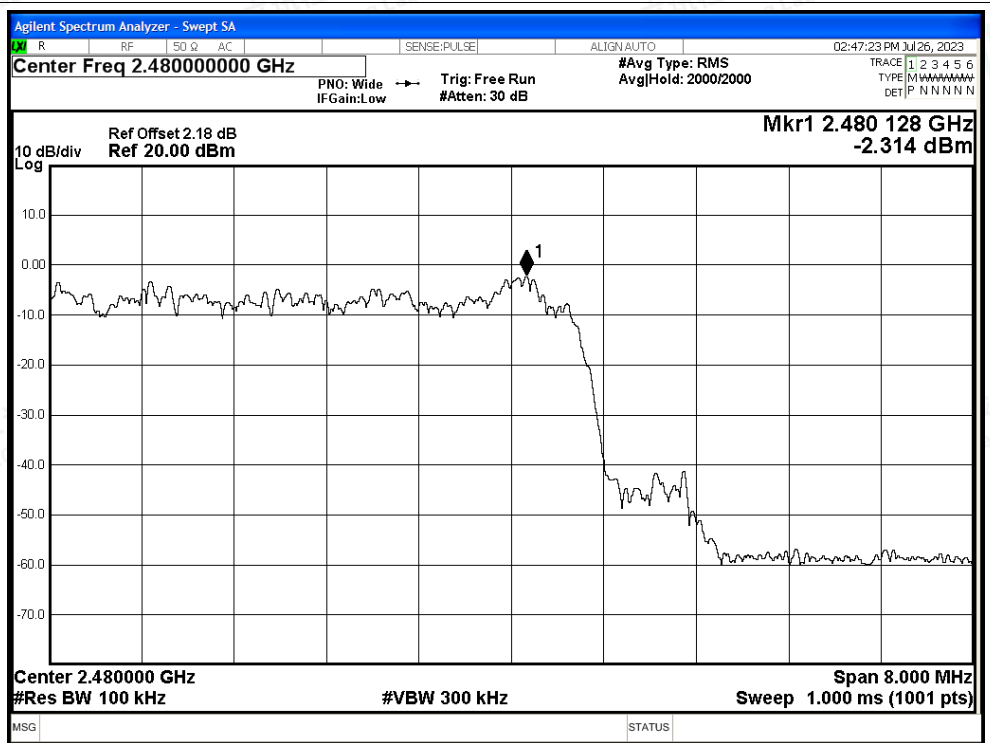


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

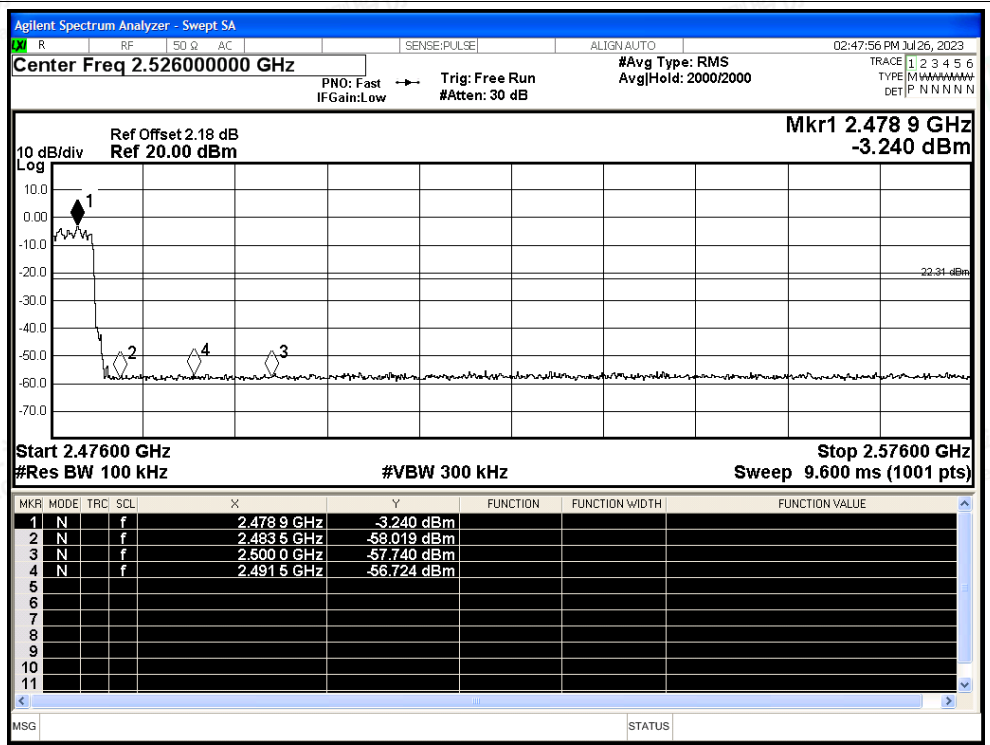




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

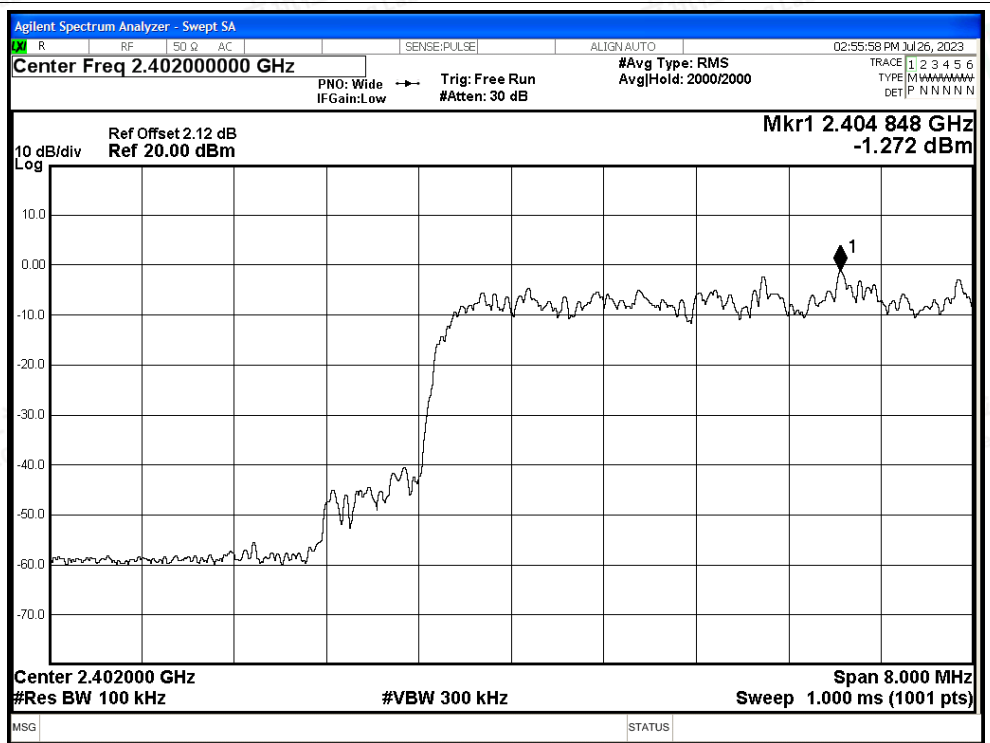


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

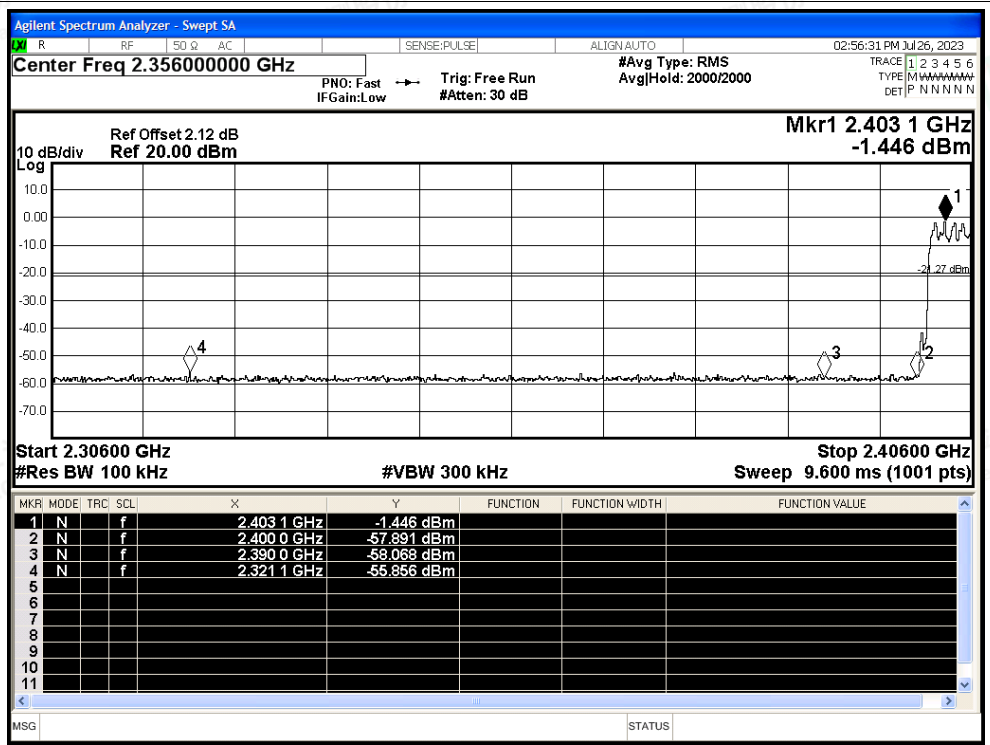




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

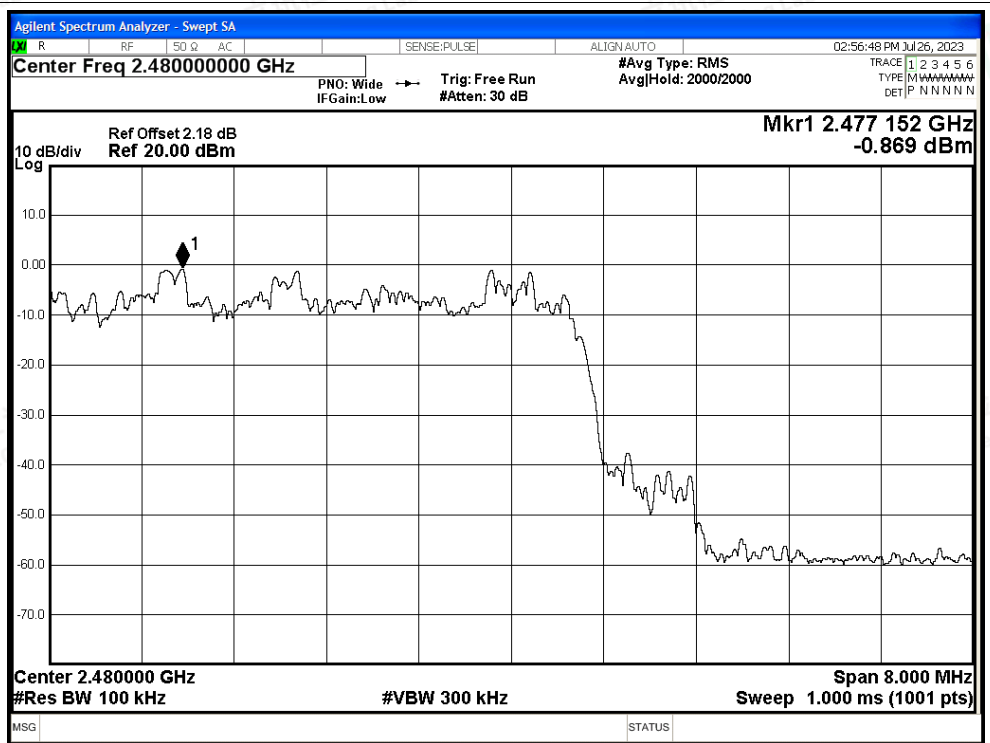


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

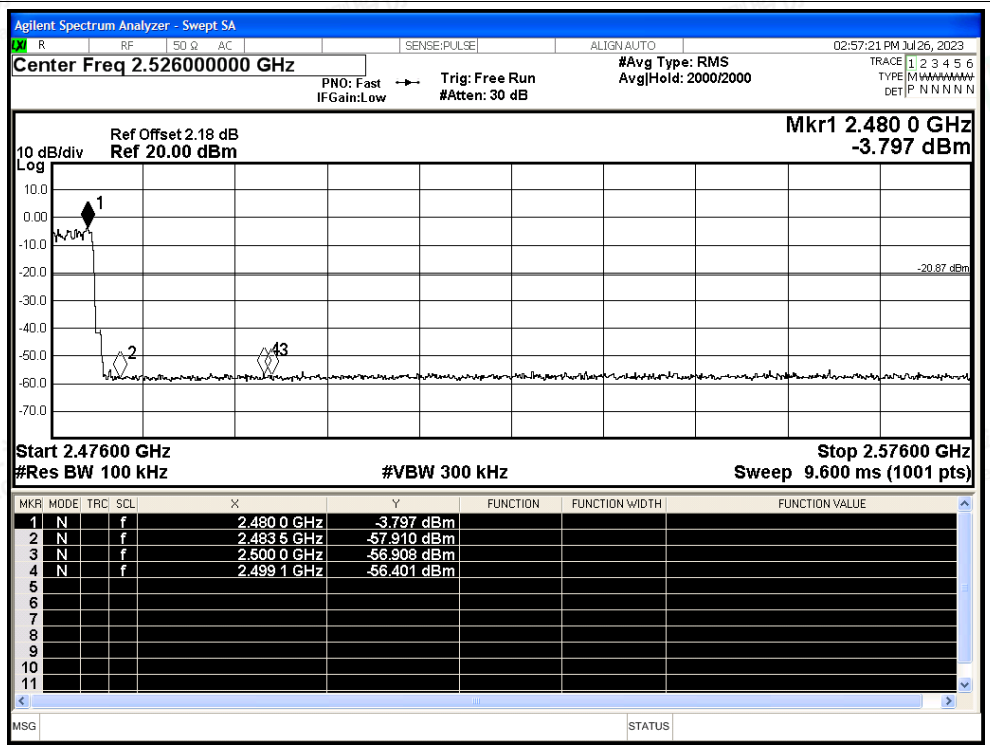




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.14	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.29	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.89	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.9	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.86	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.6	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.26	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.38	-20	Pass
NVNT	3-DH5	2480	Ant1	-54.01	-20	Pass

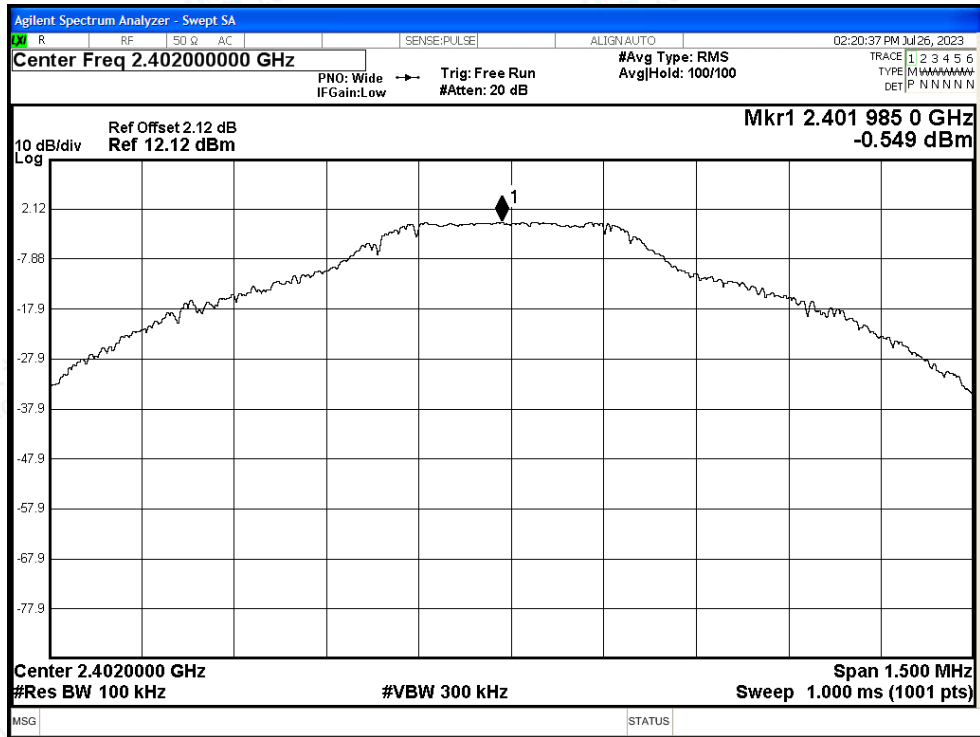


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Scan code to check authenticity

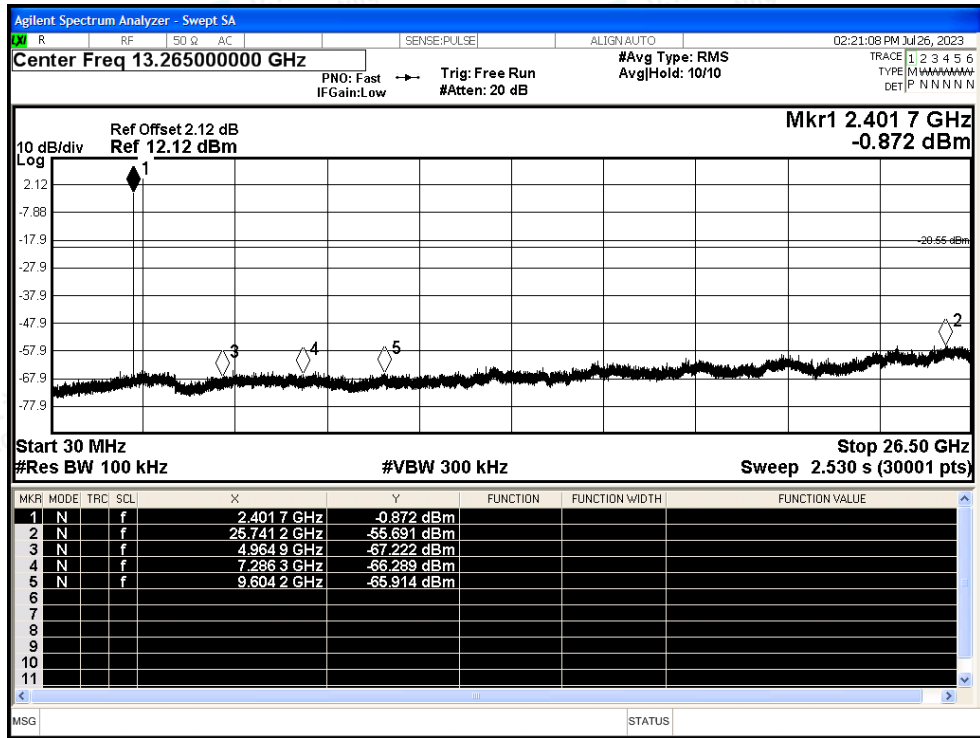


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

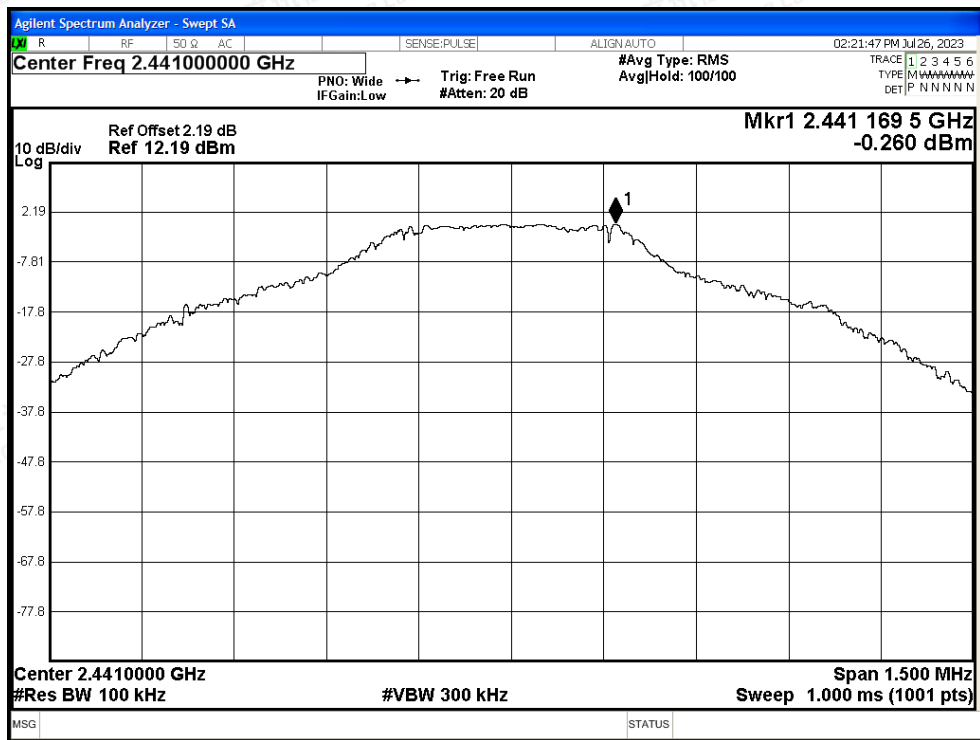


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

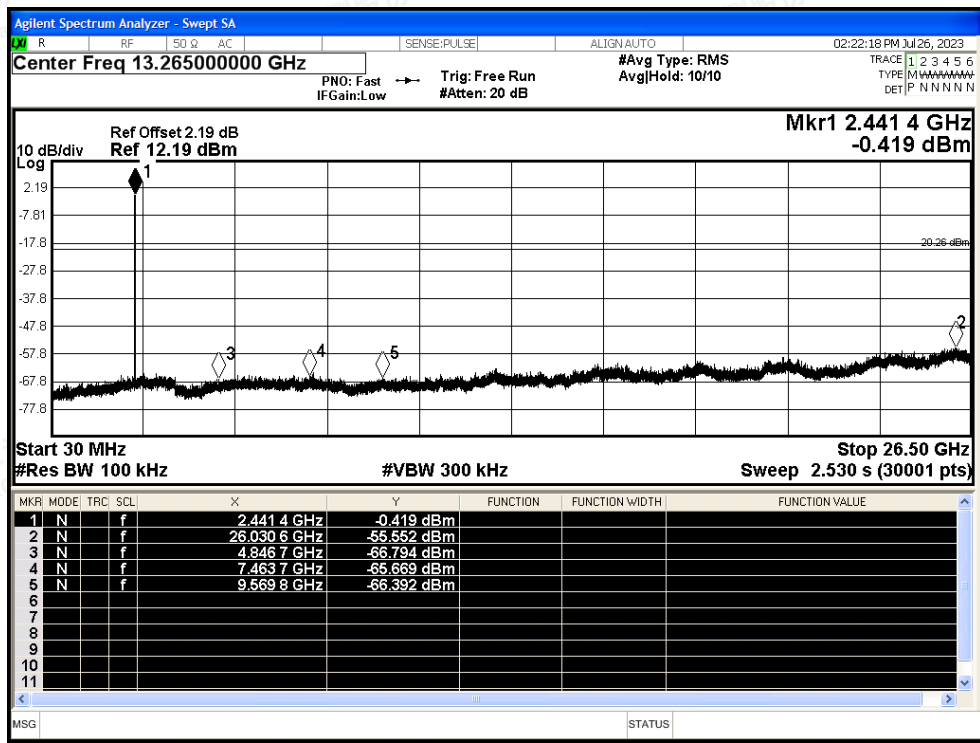




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

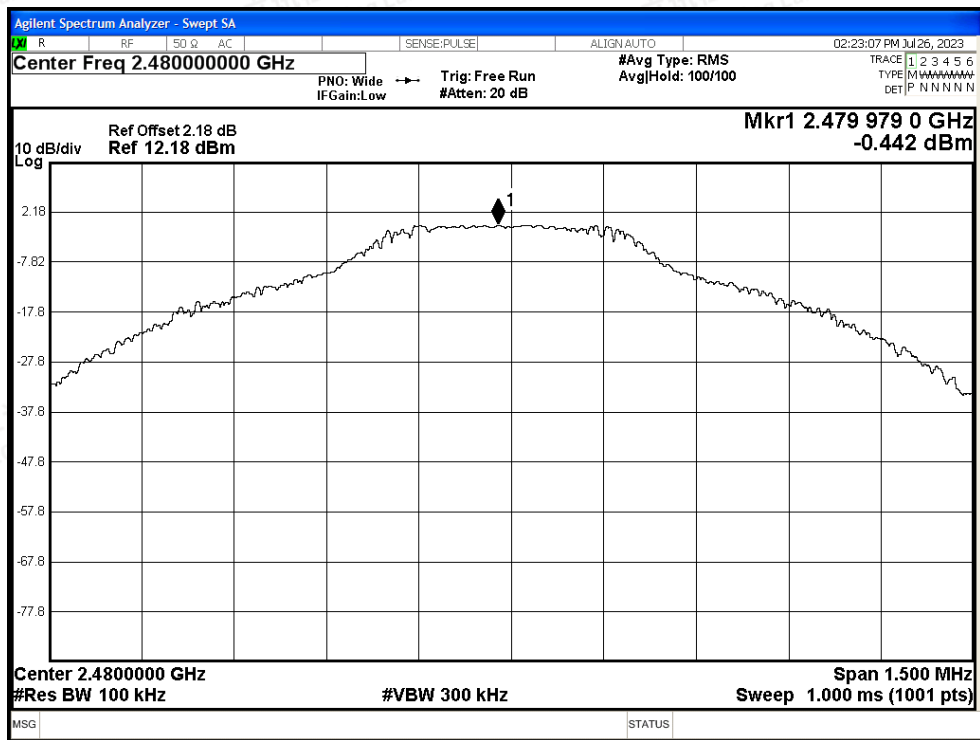


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

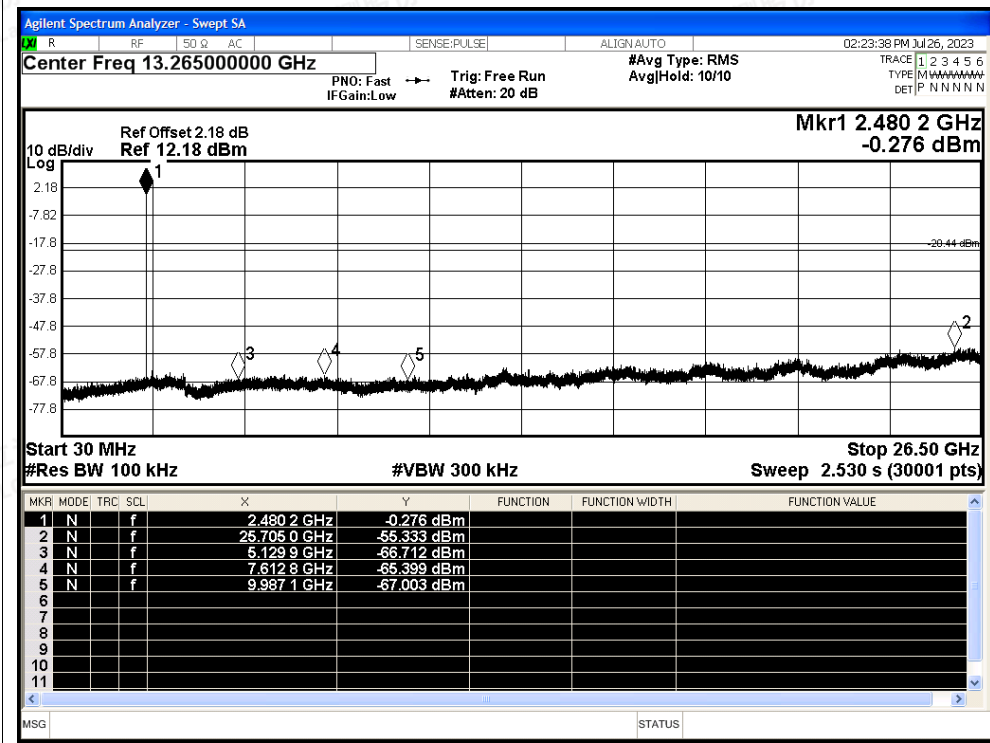




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

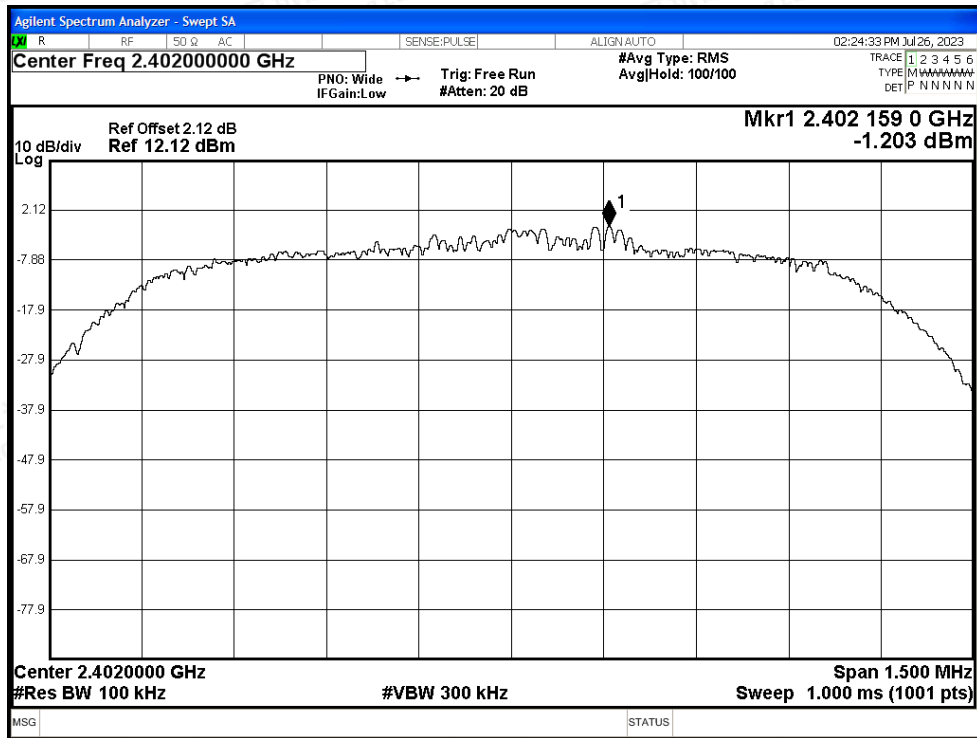


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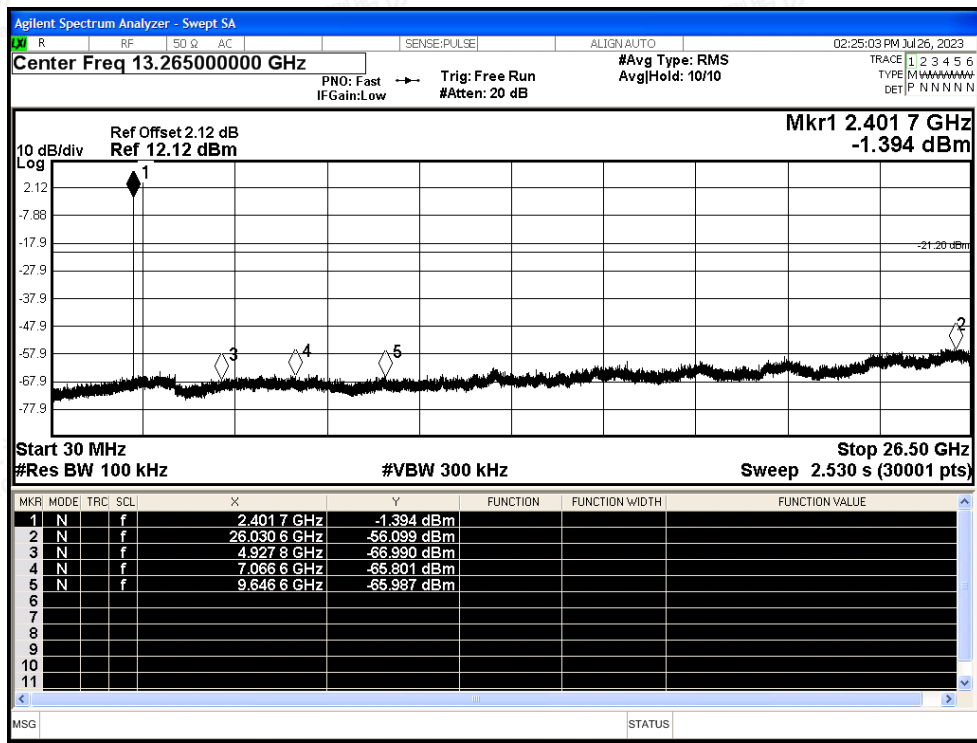




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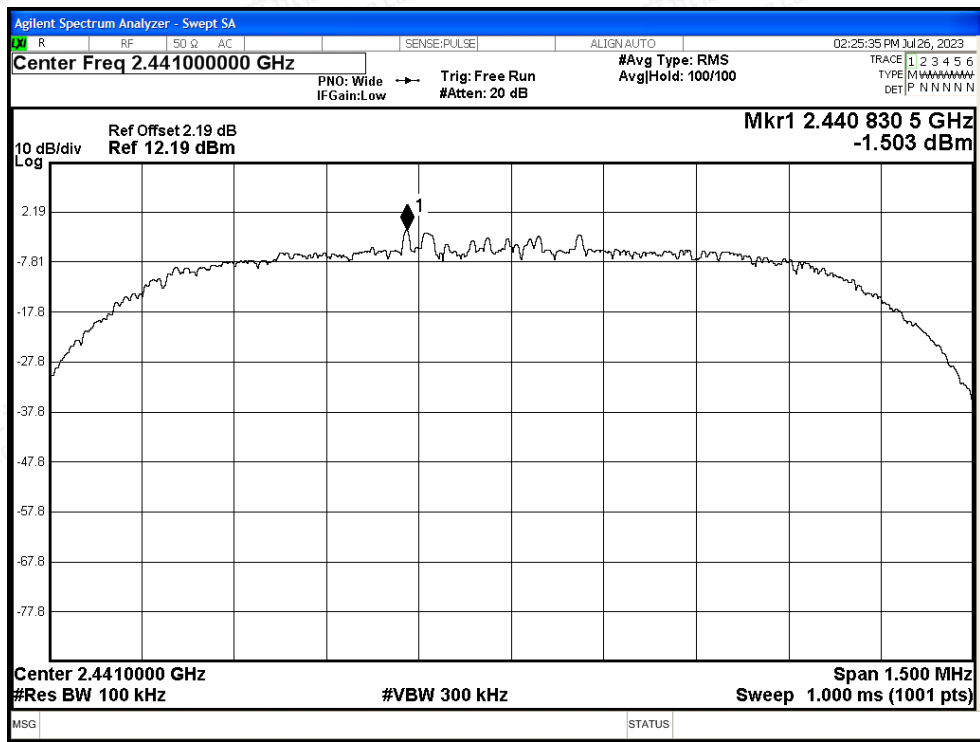


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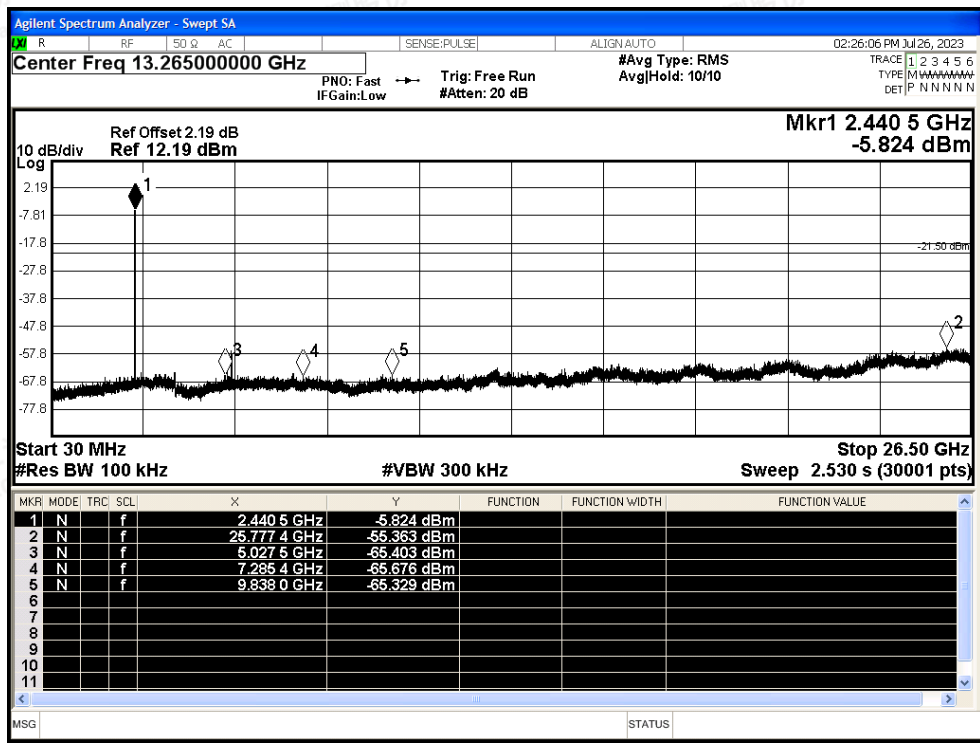




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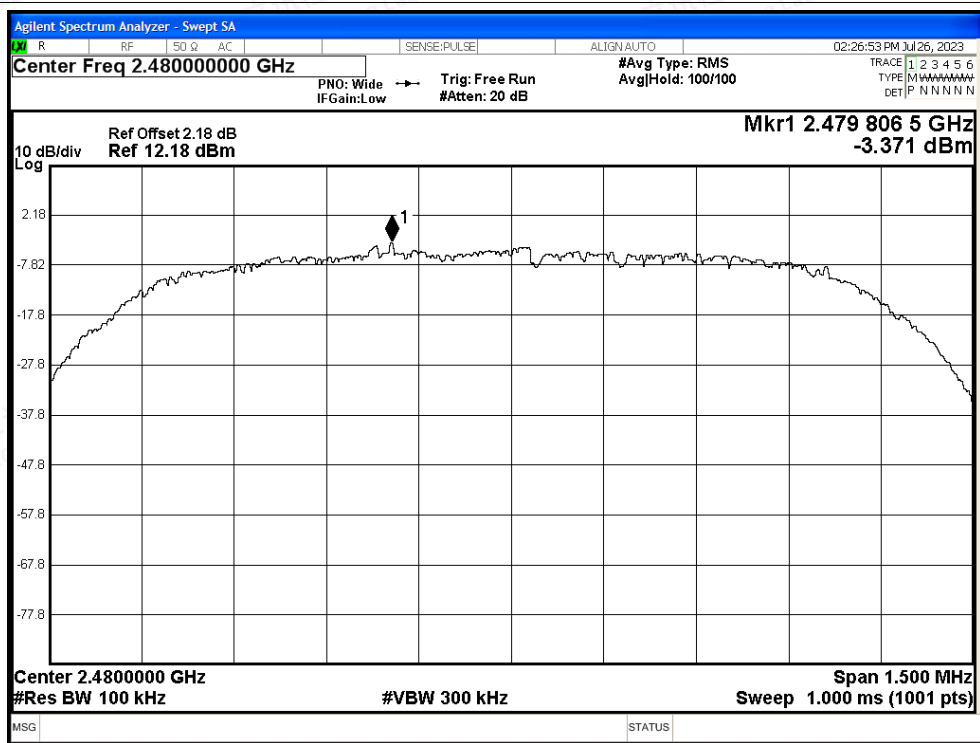


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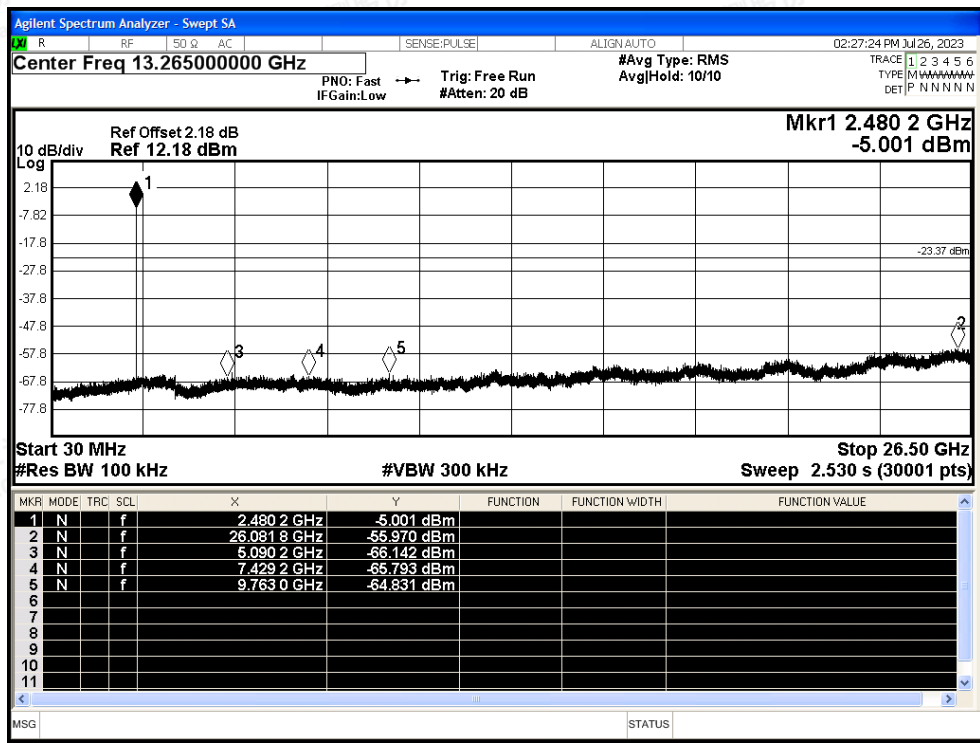




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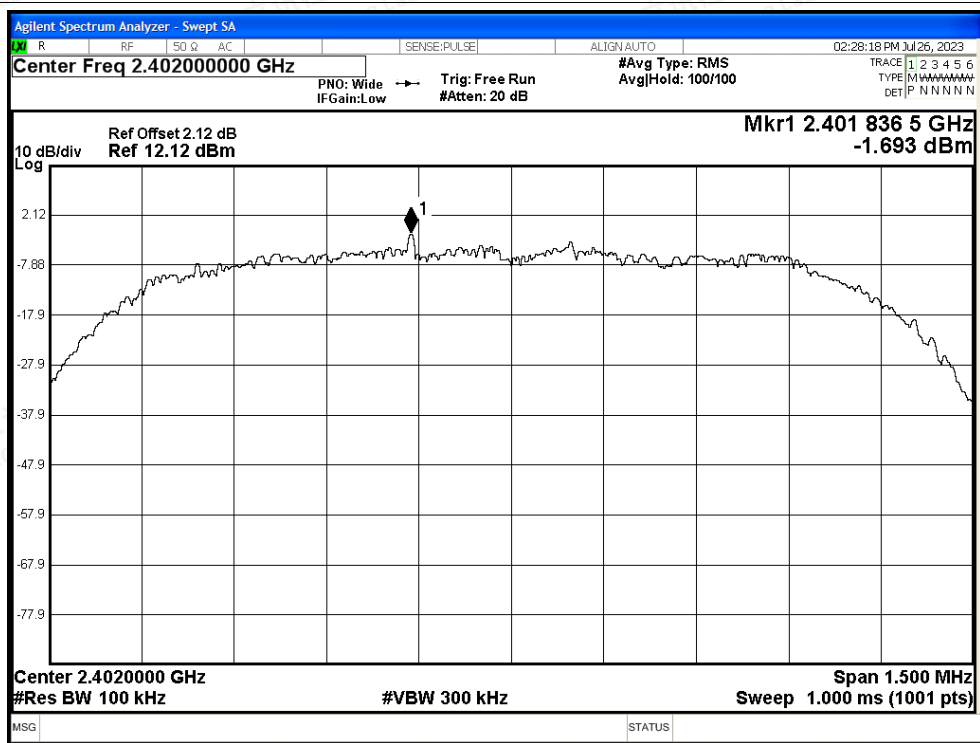


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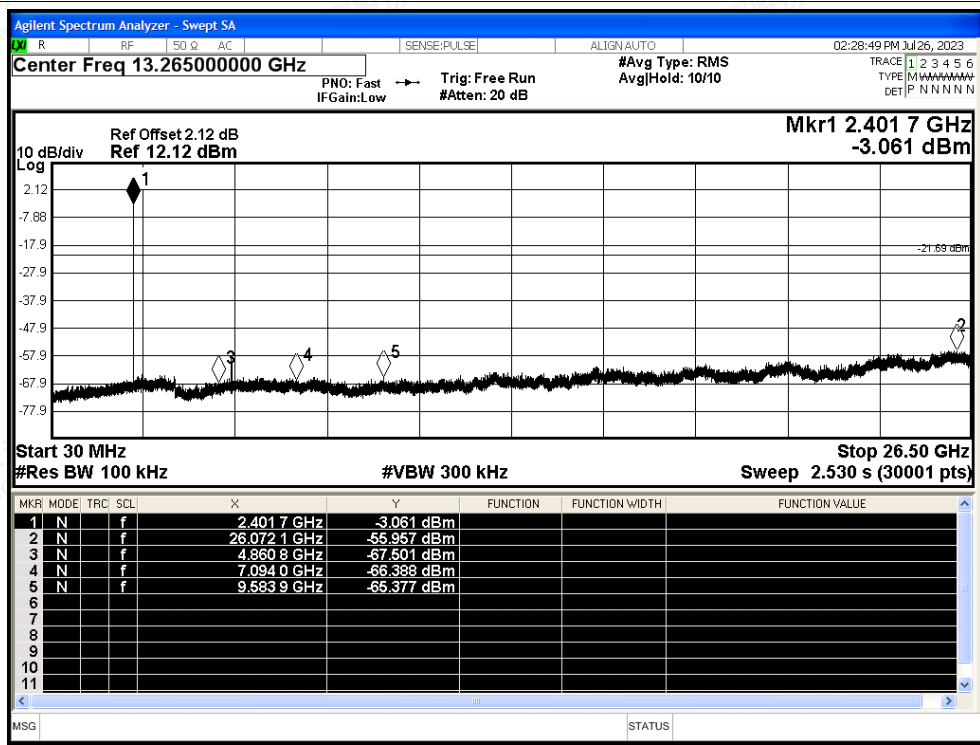




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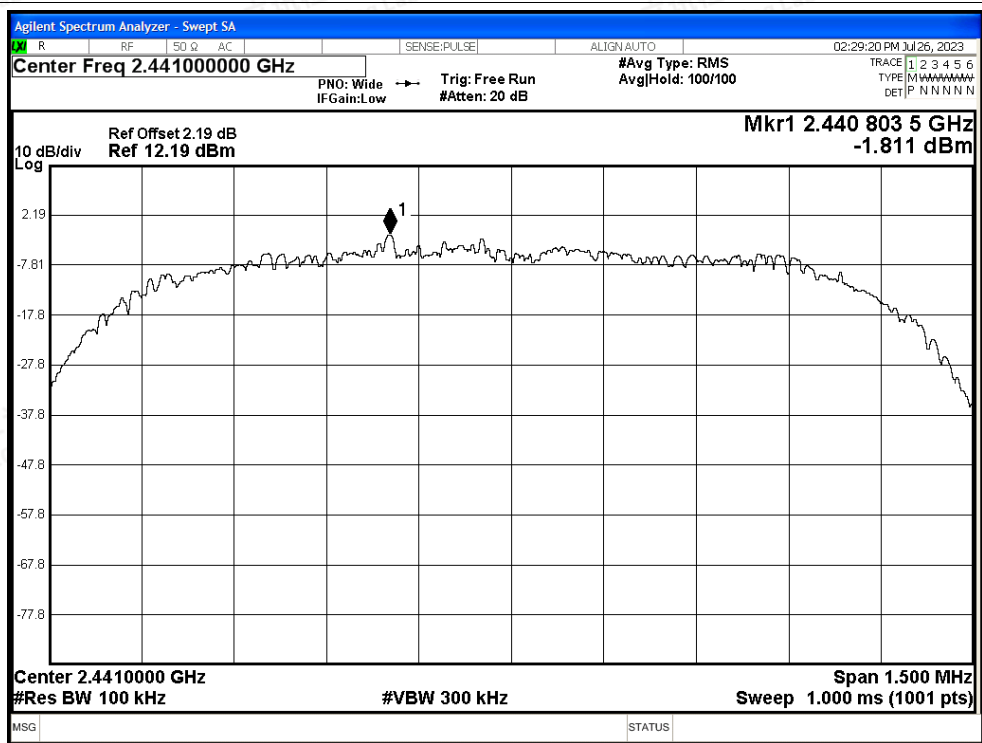


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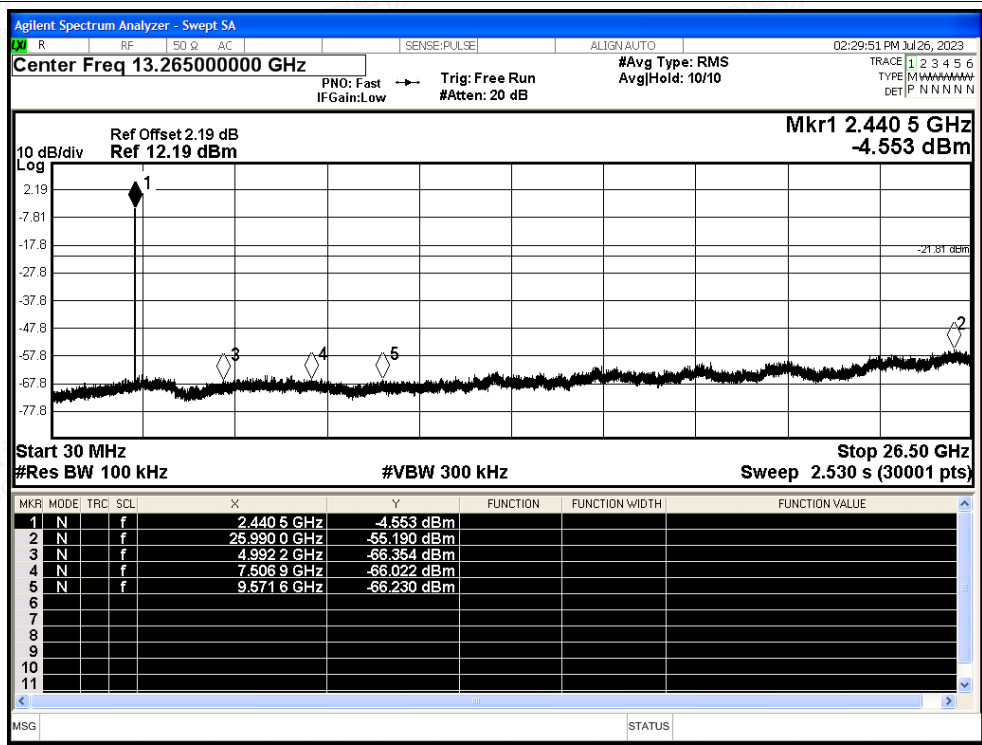




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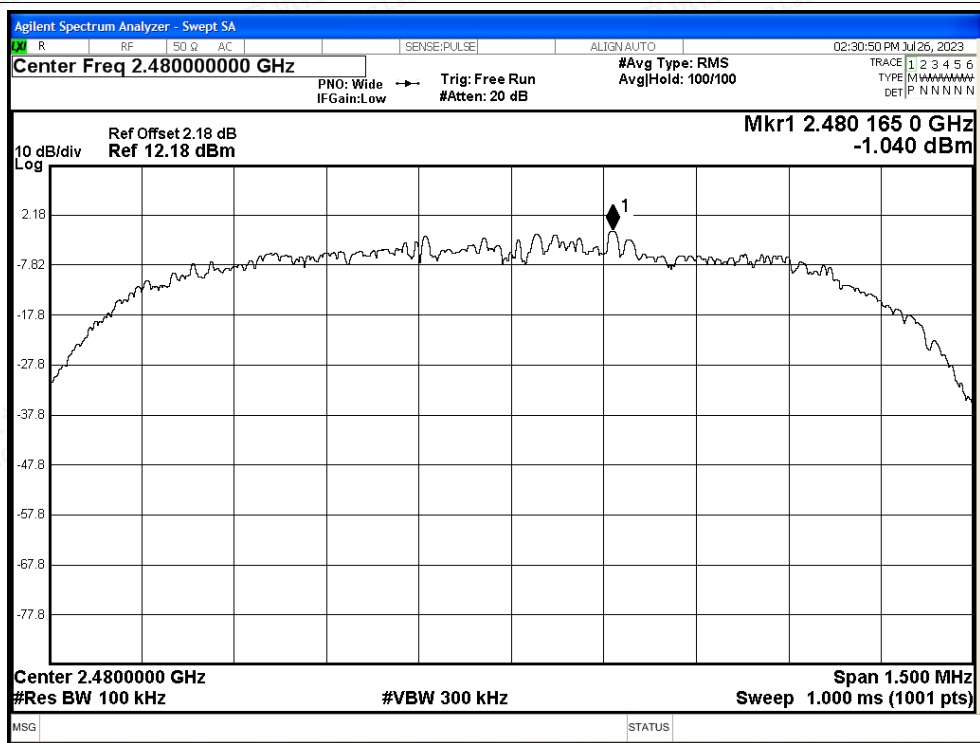


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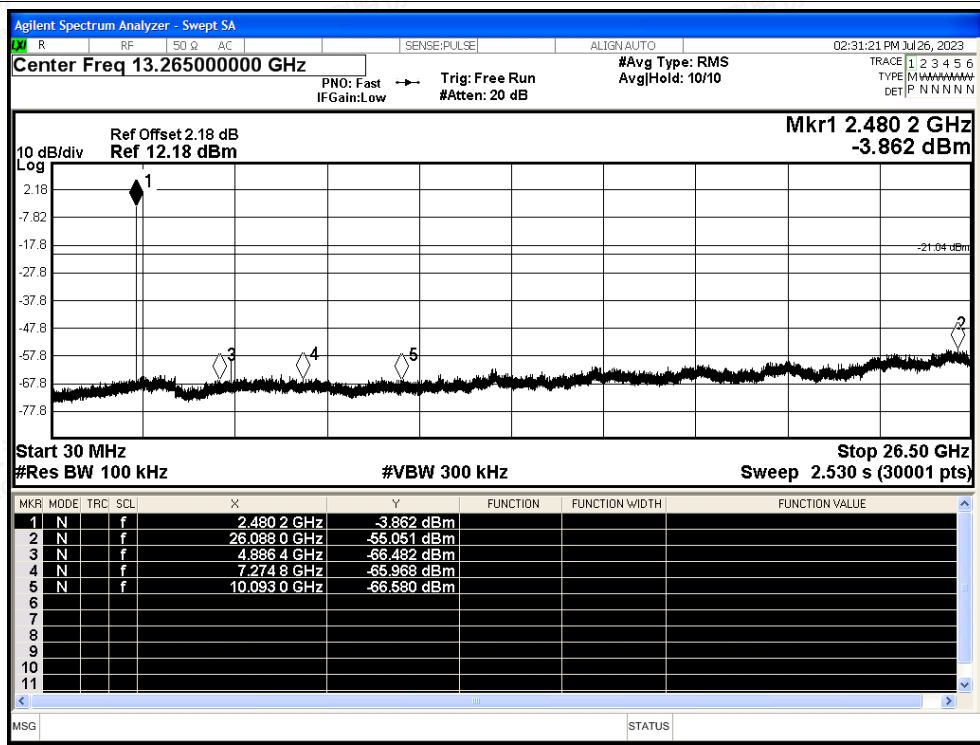




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

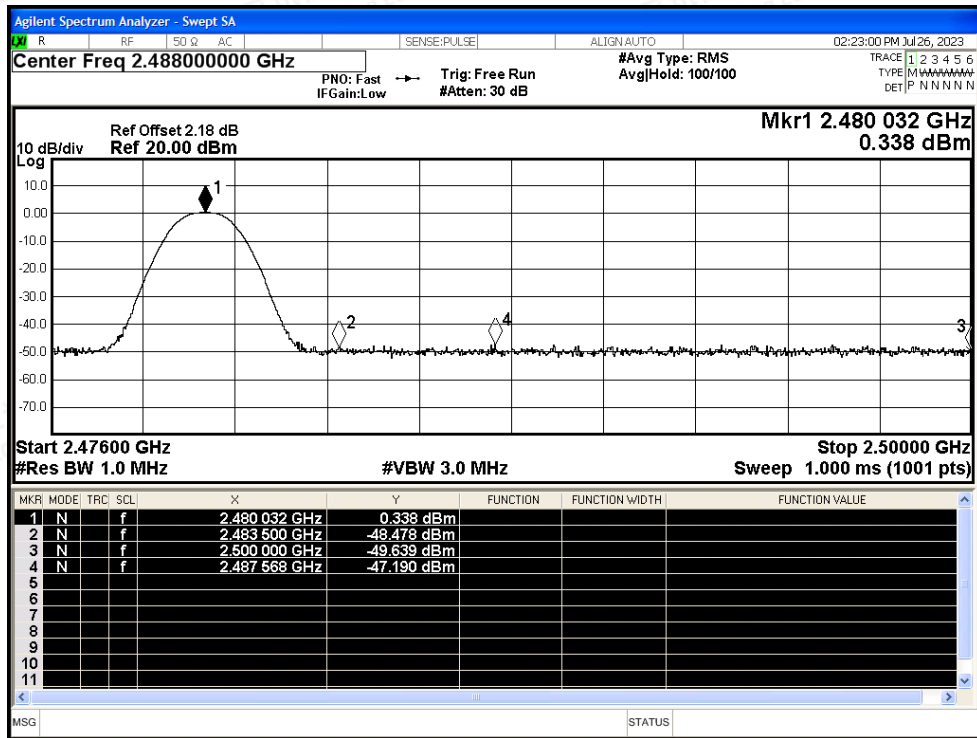
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-49.55	2.34	48.05	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.97	2.34	39.63	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2370.672	-47.83	2.34	49.77	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2387.952	-57.47	2.34	40.13	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.73	2.34	46.87	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.68	2.34	39.92	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.48	2.34	49.12	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.77	2.34	41.83	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2487.568	-47.19	2.34	50.41	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.77	2.34	41.83	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.64	2.34	47.96	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.17	2.34	40.43	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.33	2.34	46.27	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.97	2.34	39.63	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2317.776	-47.35	2.34	50.25	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.296	-57.46	2.34	40.14	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.25	2.34	48.35	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.65	2.34	39.95	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.05	2.34	49.55	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.62	2.34	41.98	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2486.104	-46.54	2.34	51.06	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.62	2.34	41.98	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.49	2.34	49.11	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.12	2.34	40.48	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.3	2.34	46.30	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.95	2.34	39.65	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2344.656	-47.3	2.34	50.30	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2387.952	-57.37	2.34	40.23	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.15	2.34	46.45	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.5	2.34	40.10	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.3	2.34	47.30	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.72	2.34	41.88	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2499.616	-47.09	2.34	50.51	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.72	2.34	41.88	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.43	2.34	48.17	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.15	2.34	40.45	Average	54	Pass



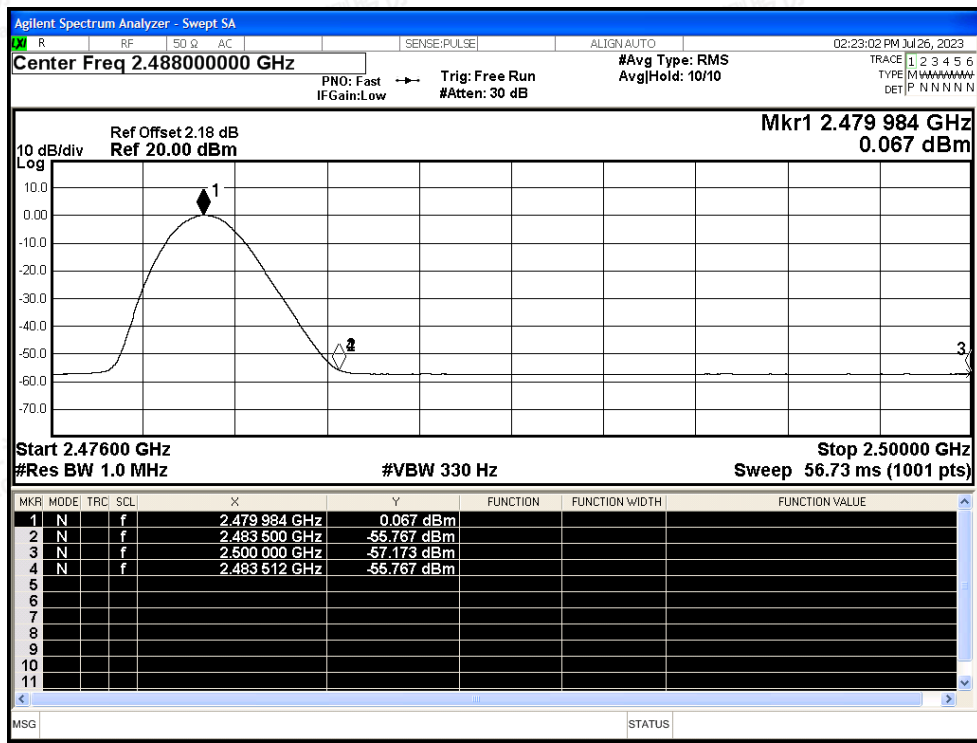
Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity



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

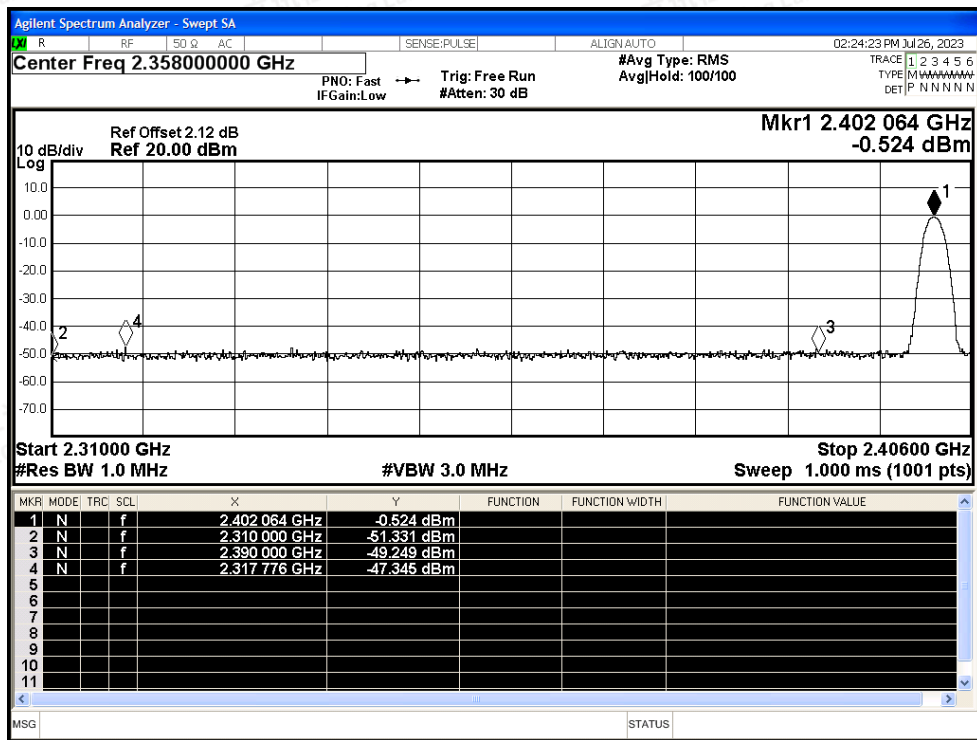


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

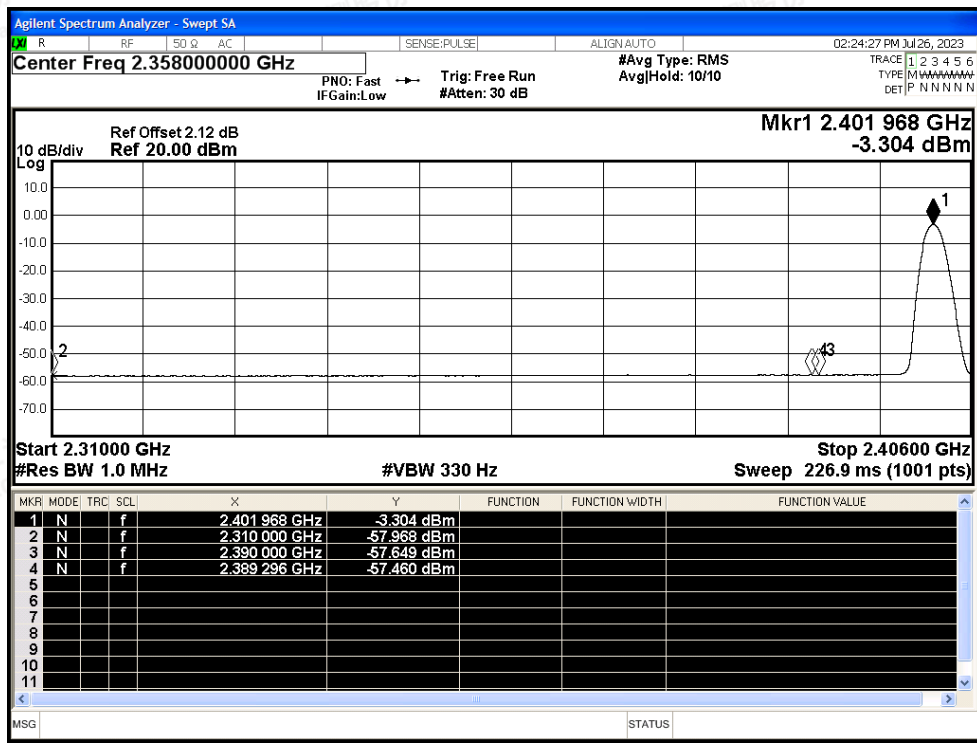




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

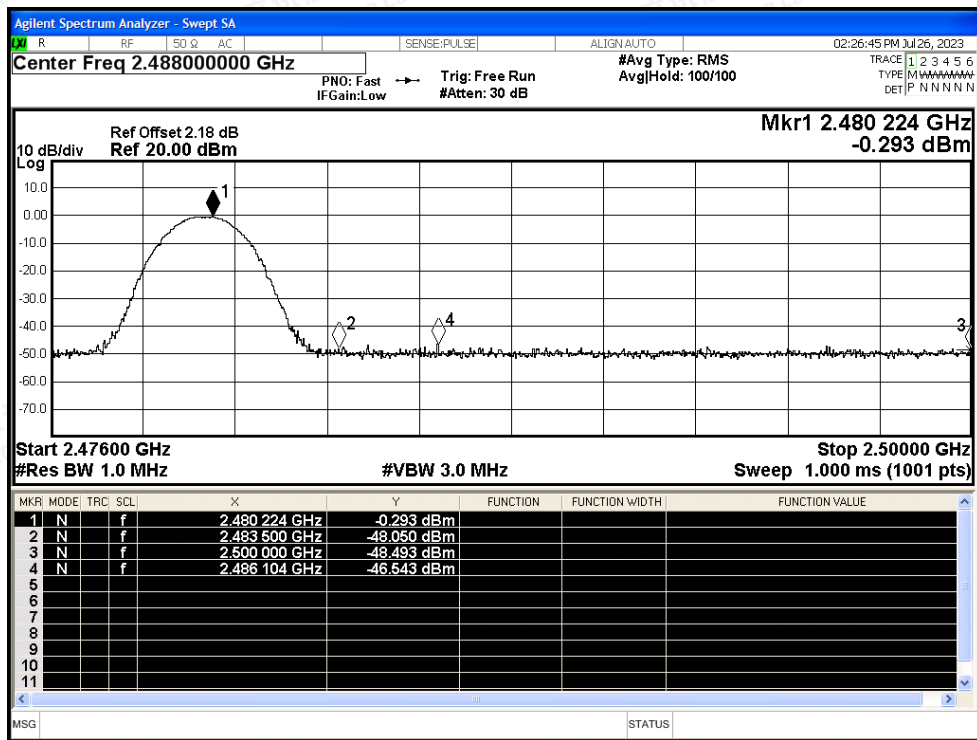


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

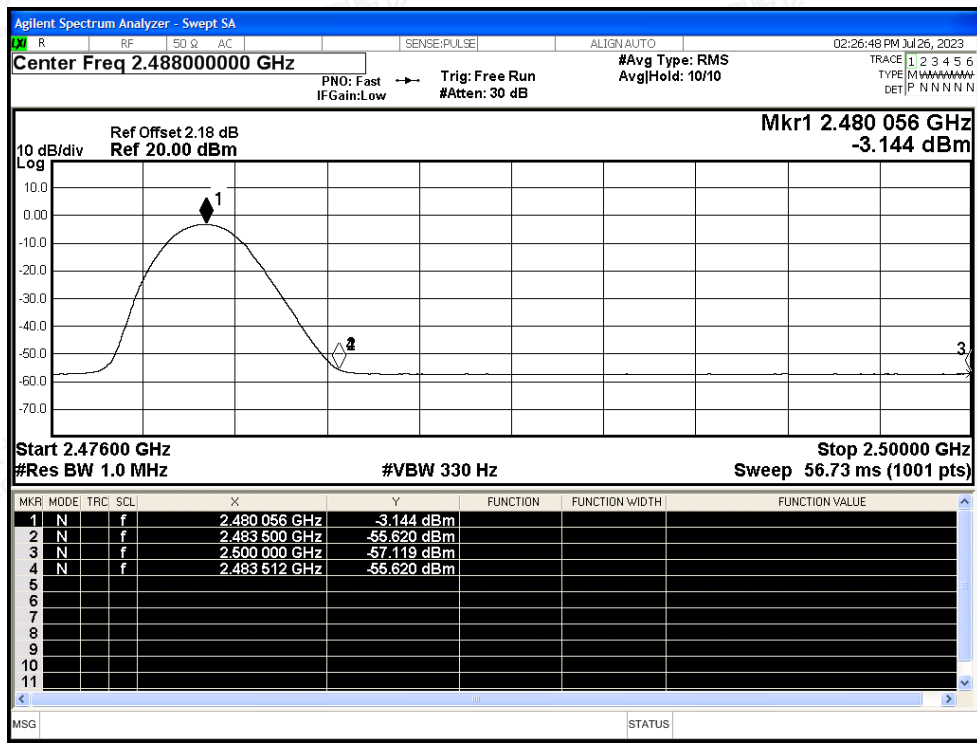




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

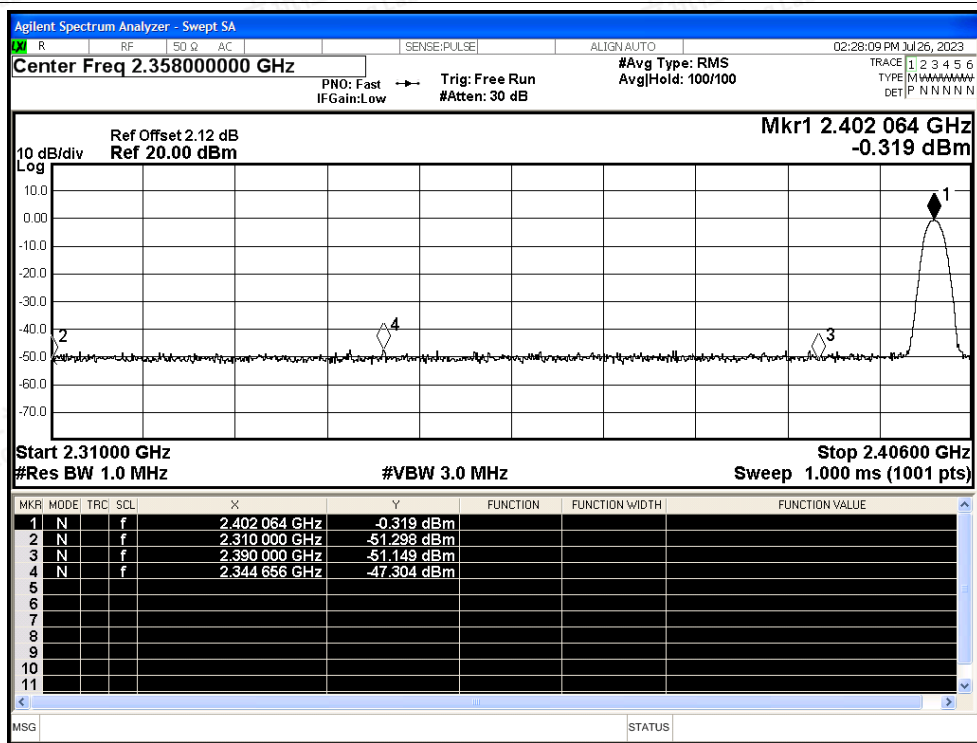


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

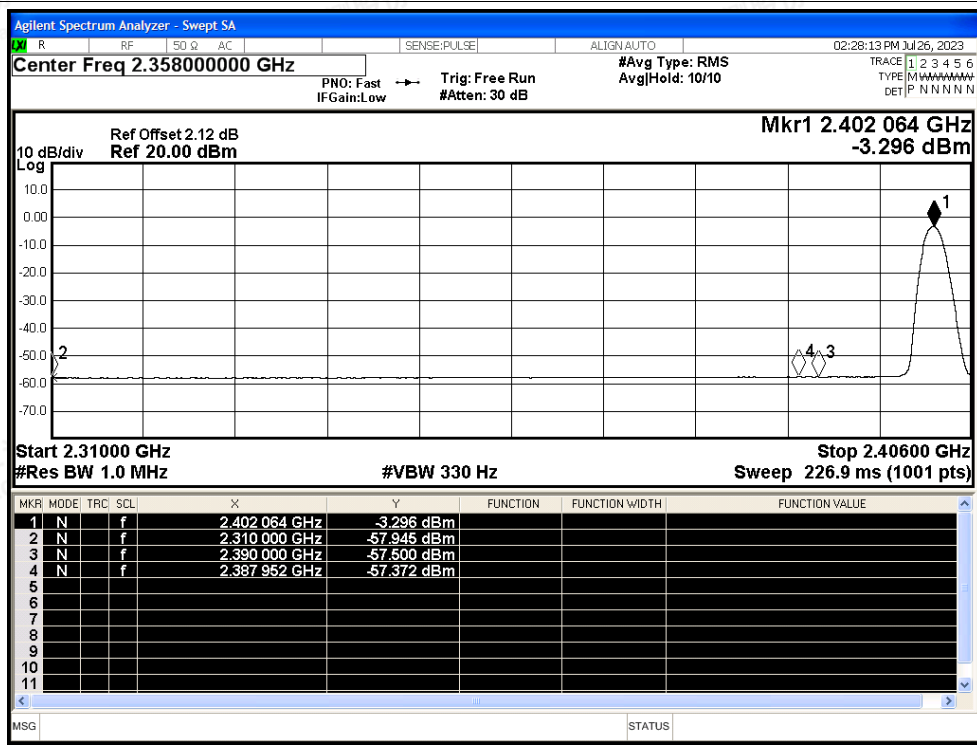




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

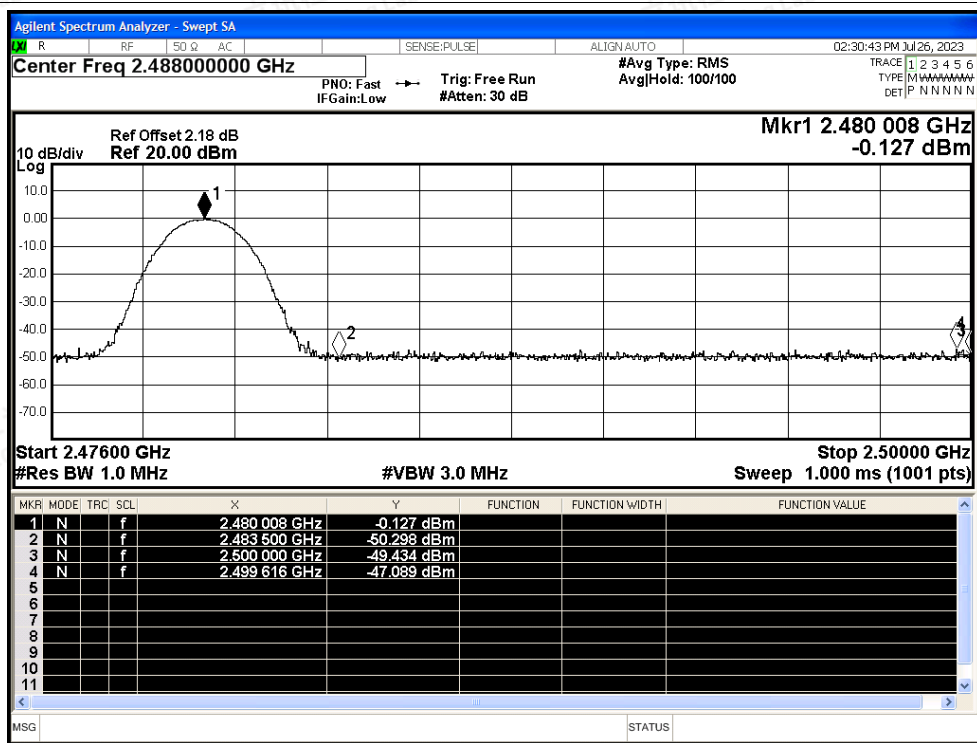


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

