



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Hyundai Notebook

Test Model: HT15CA10S01

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

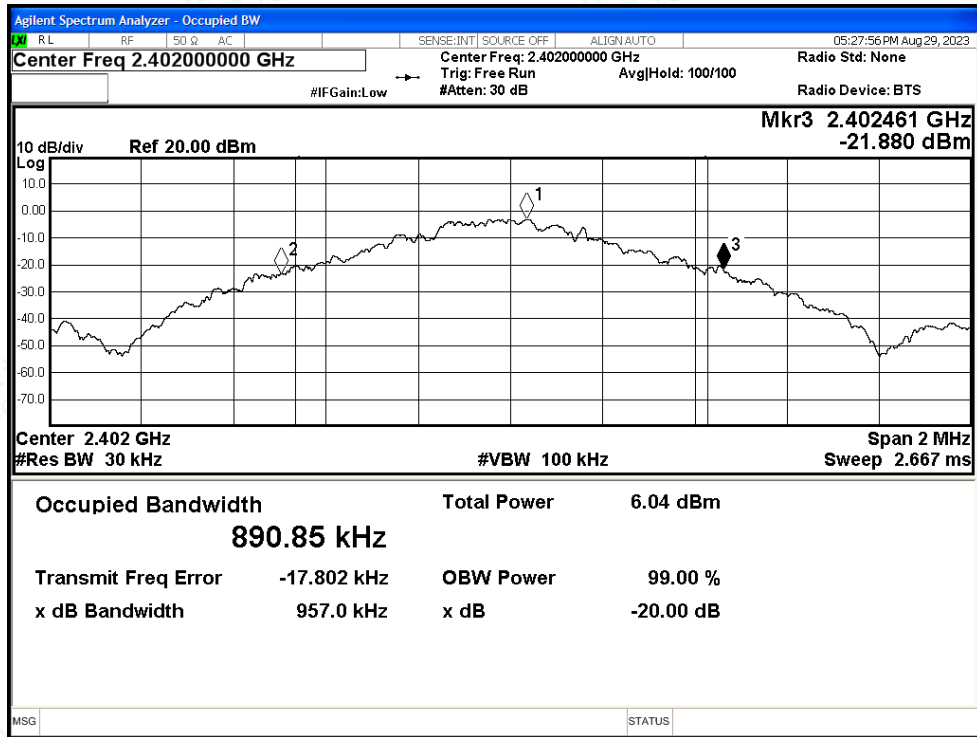
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.957	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.951	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.954	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.532	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.508	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.514	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.471	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.482	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.488	N/A	Pass



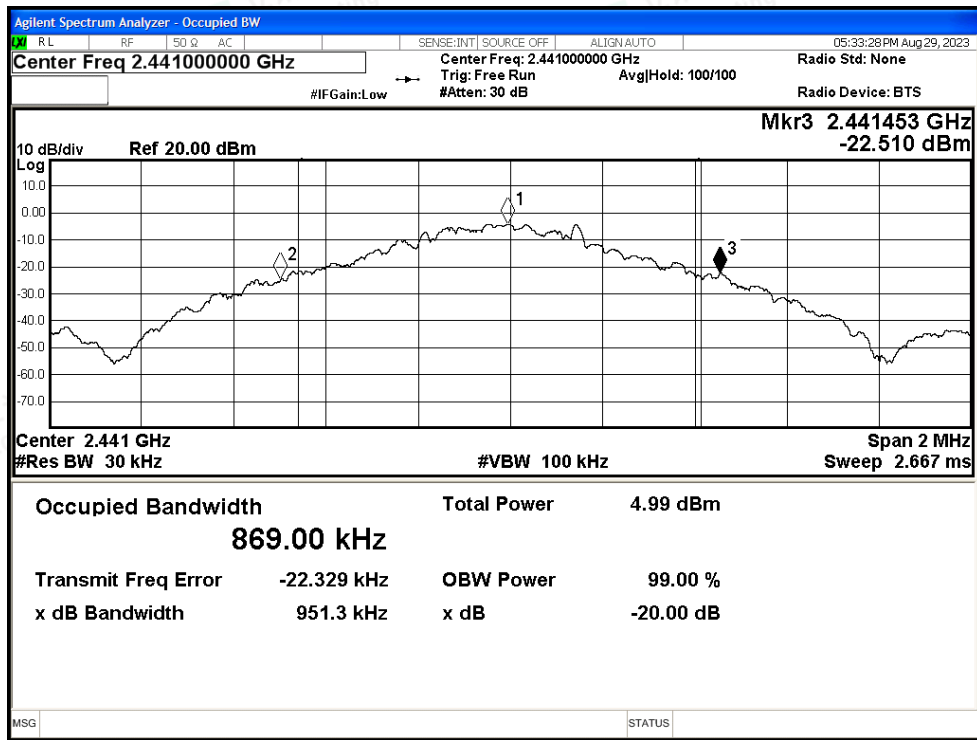


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

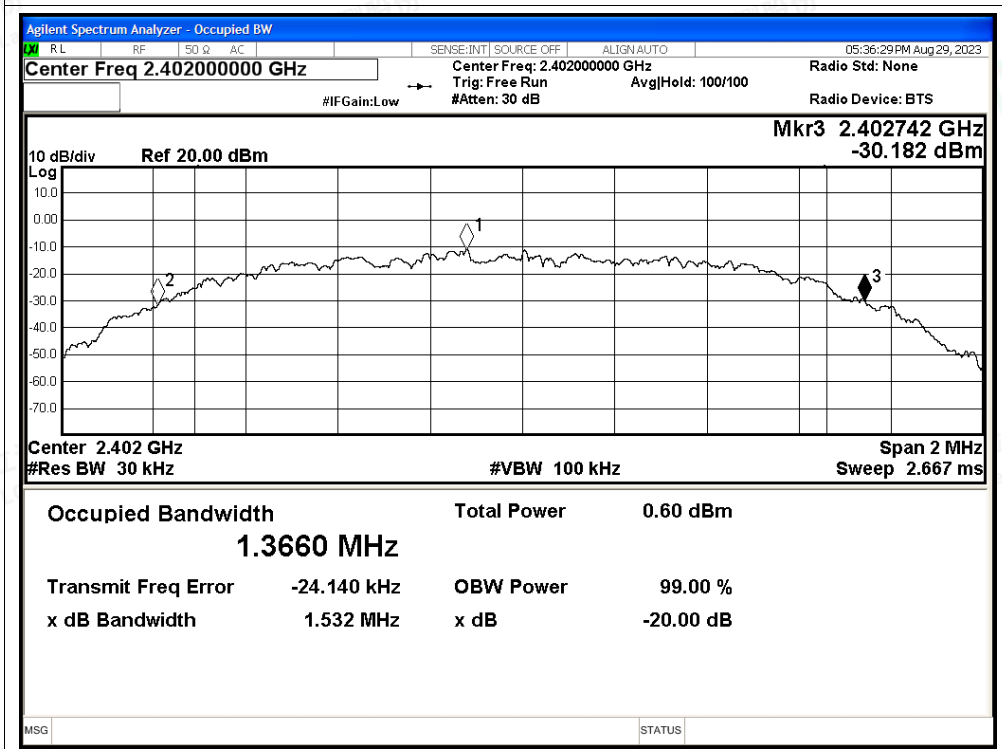




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

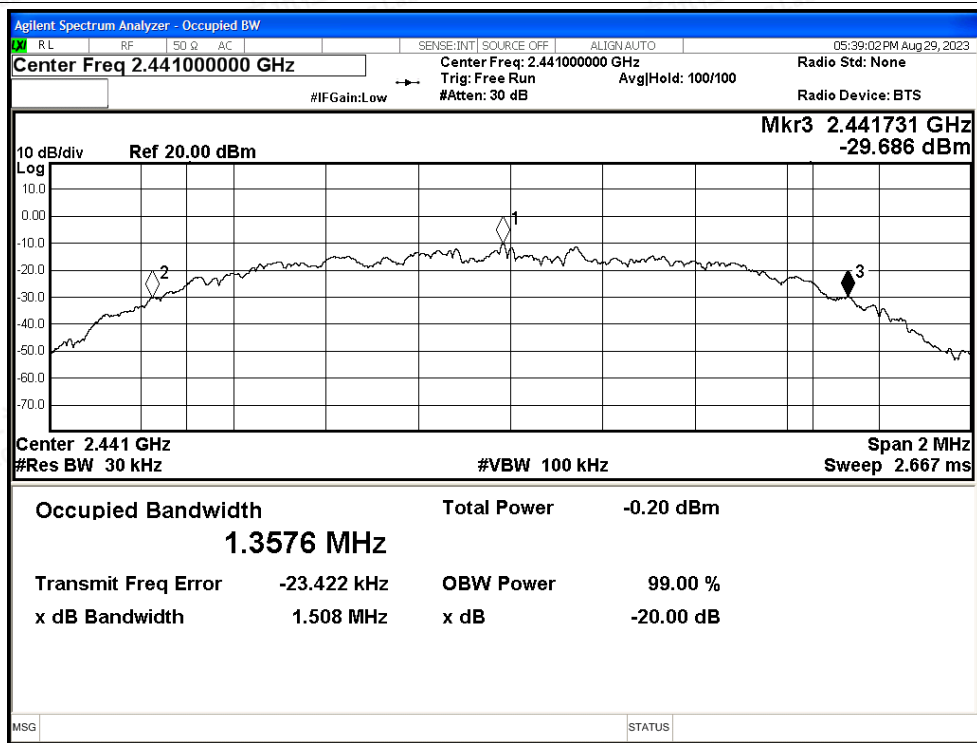


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

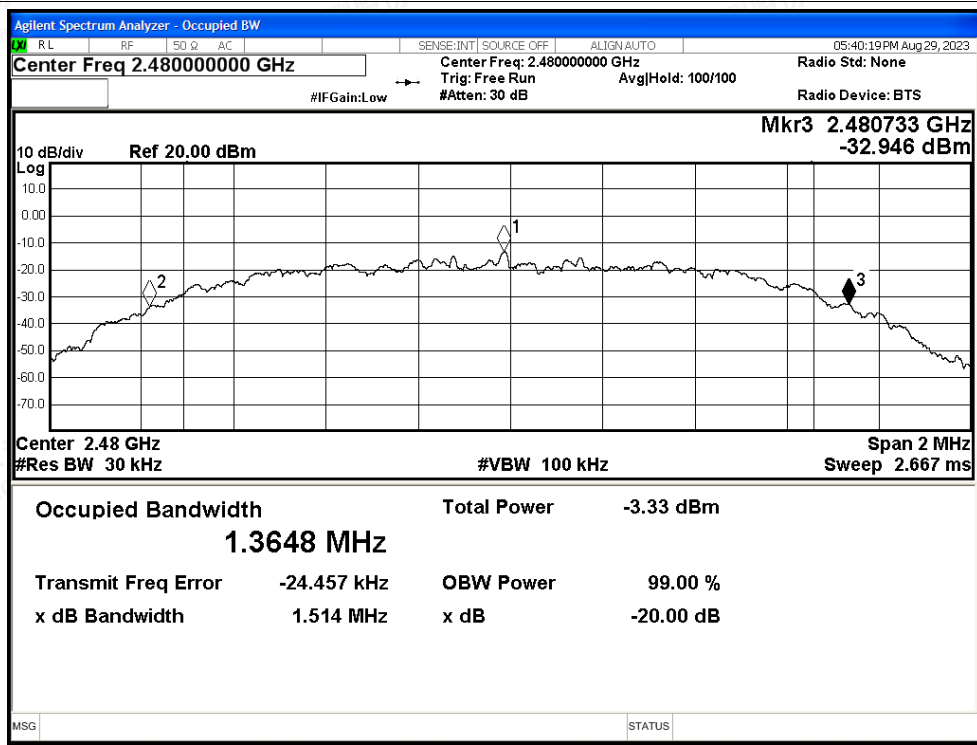




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

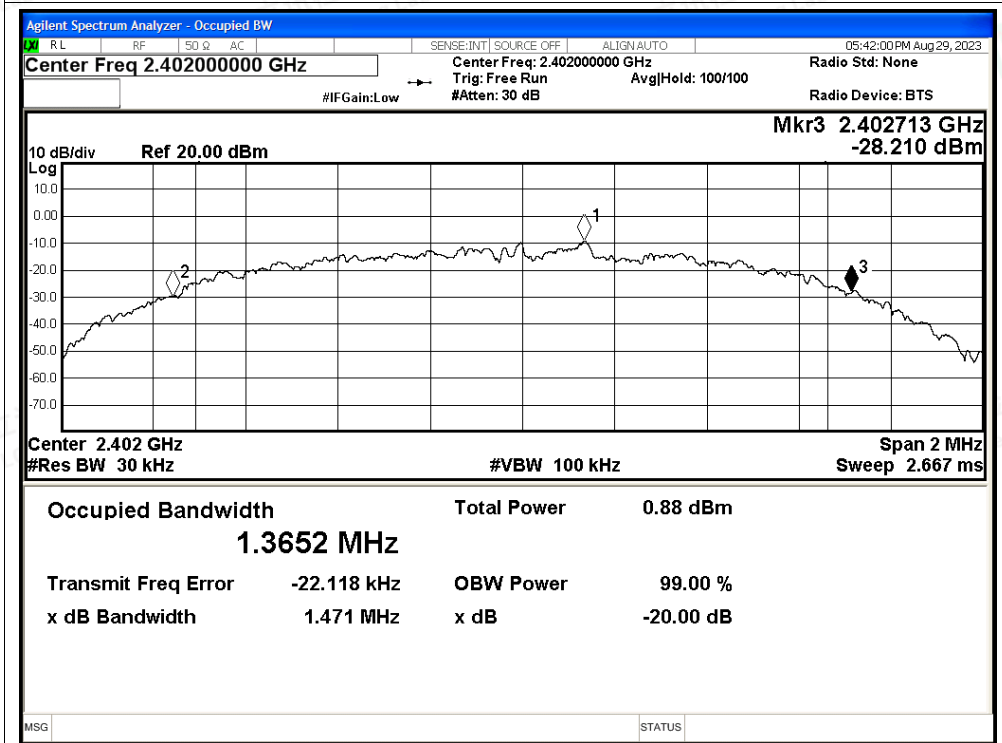


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

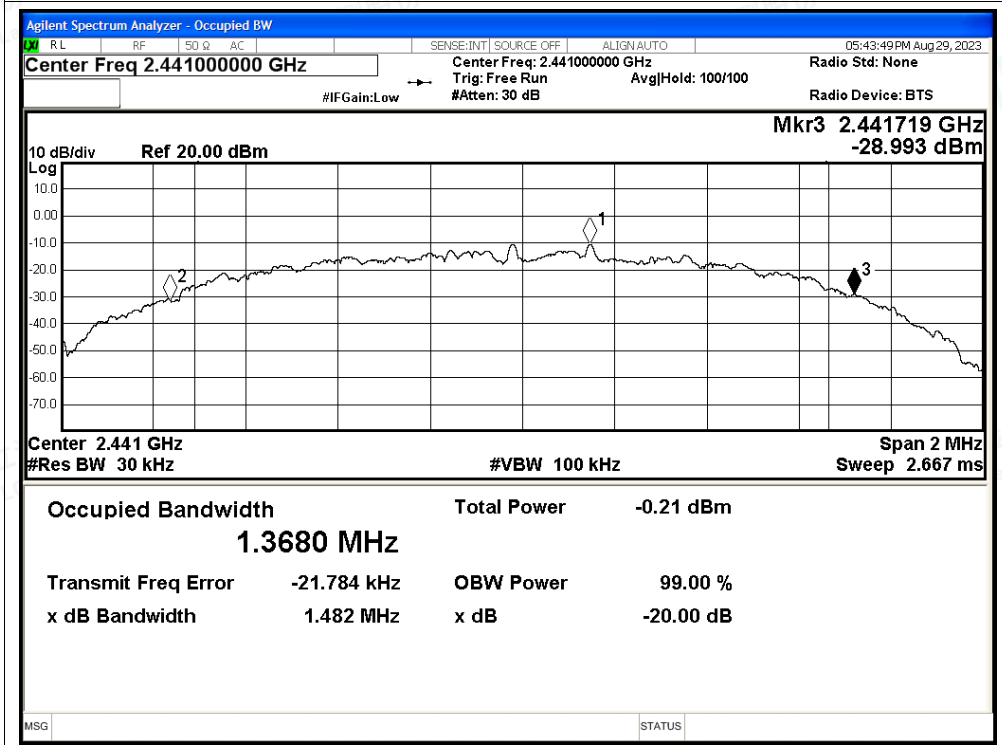


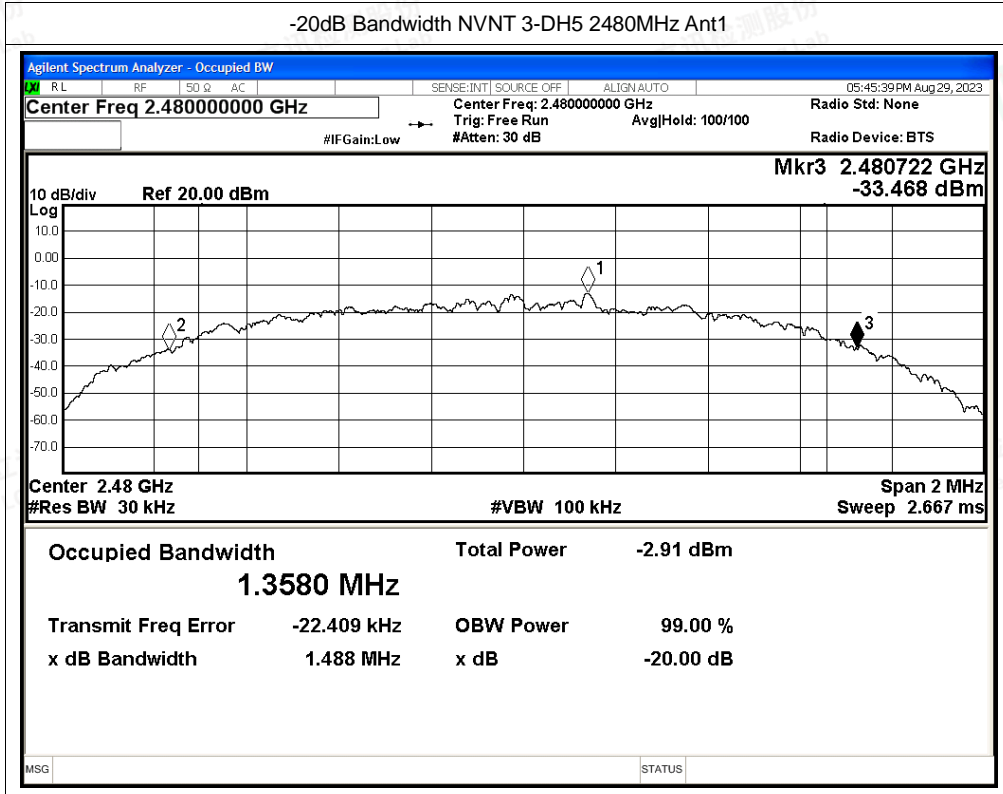


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Conducted Output Power

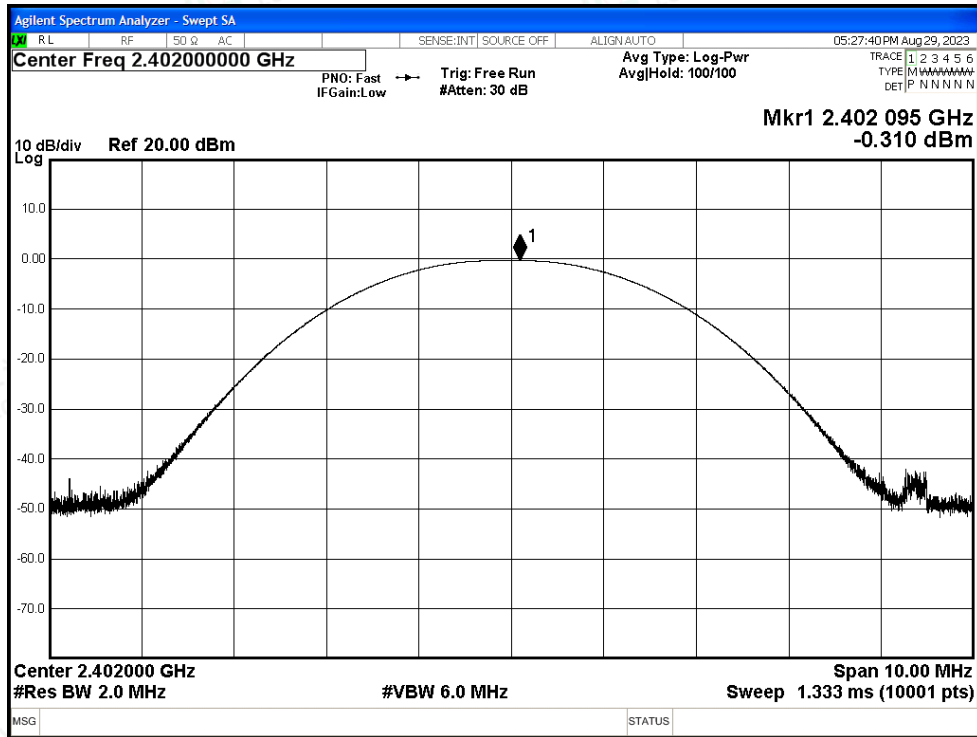
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.31	21	Pass
NVNT	1-DH5	2441	Ant1	-1.48	21	Pass
NVNT	1-DH5	2480	Ant1	-4.02	21	Pass
NVNT	2-DH5	2402	Ant1	-4.00	21	Pass
NVNT	2-DH5	2441	Ant1	-5.18	21	Pass
NVNT	2-DH5	2480	Ant1	-8.04	21	Pass
NVNT	3-DH5	2402	Ant1	-3.88	21	Pass
NVNT	3-DH5	2441	Ant1	-5.02	21	Pass
NVNT	3-DH5	2480	Ant1	-7.89	21	Pass



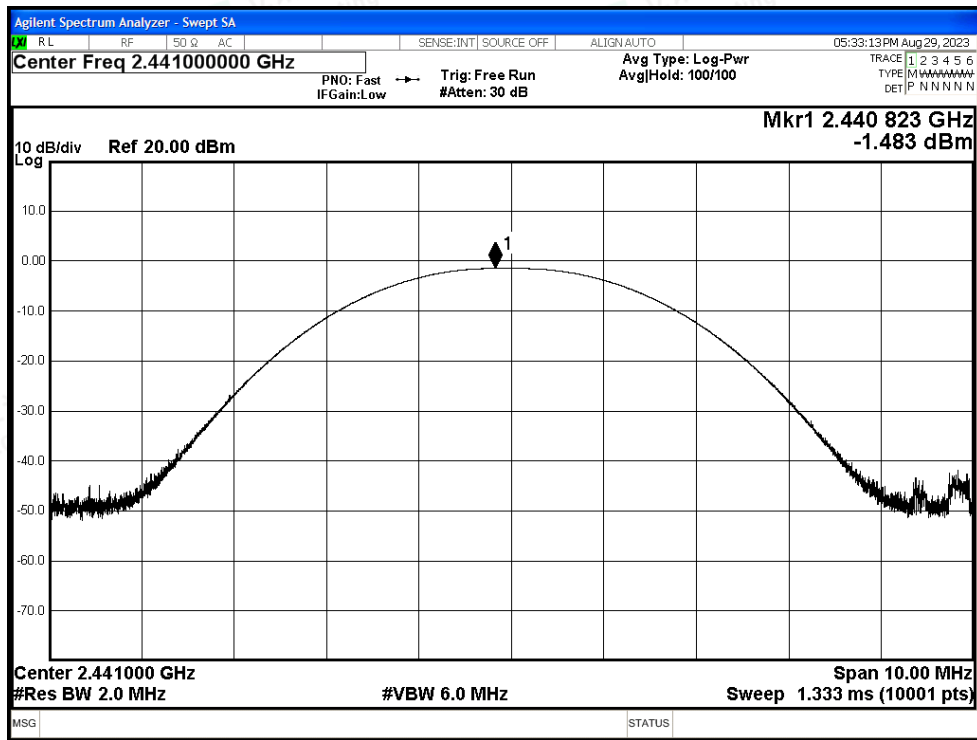


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

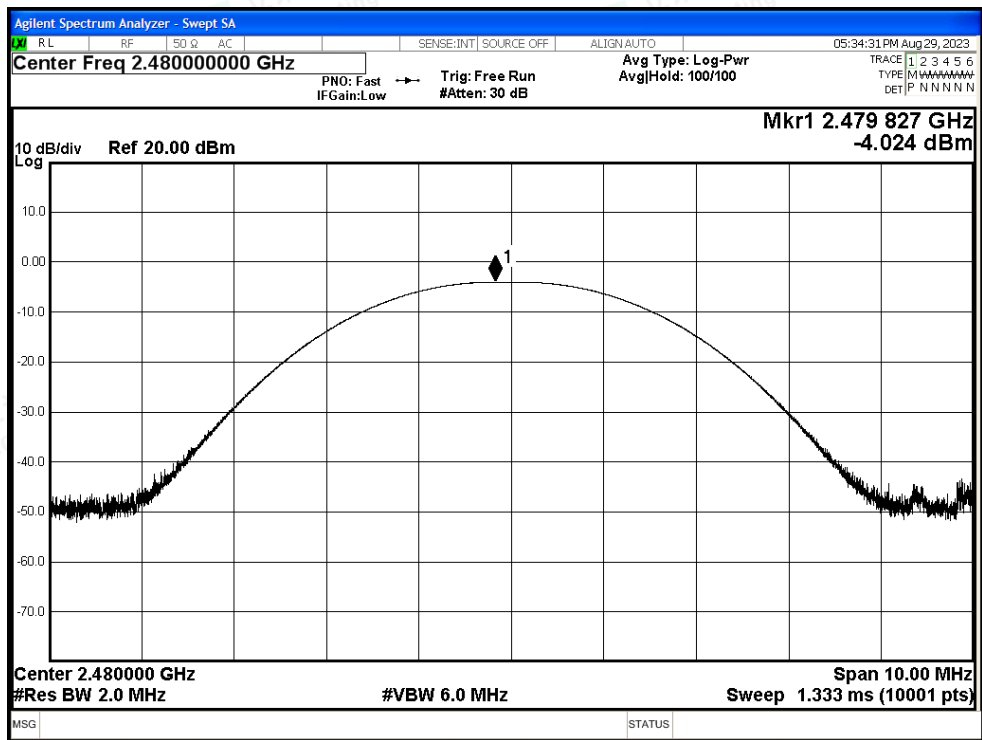


Power NVNT 1-DH5 2441MHz Ant1

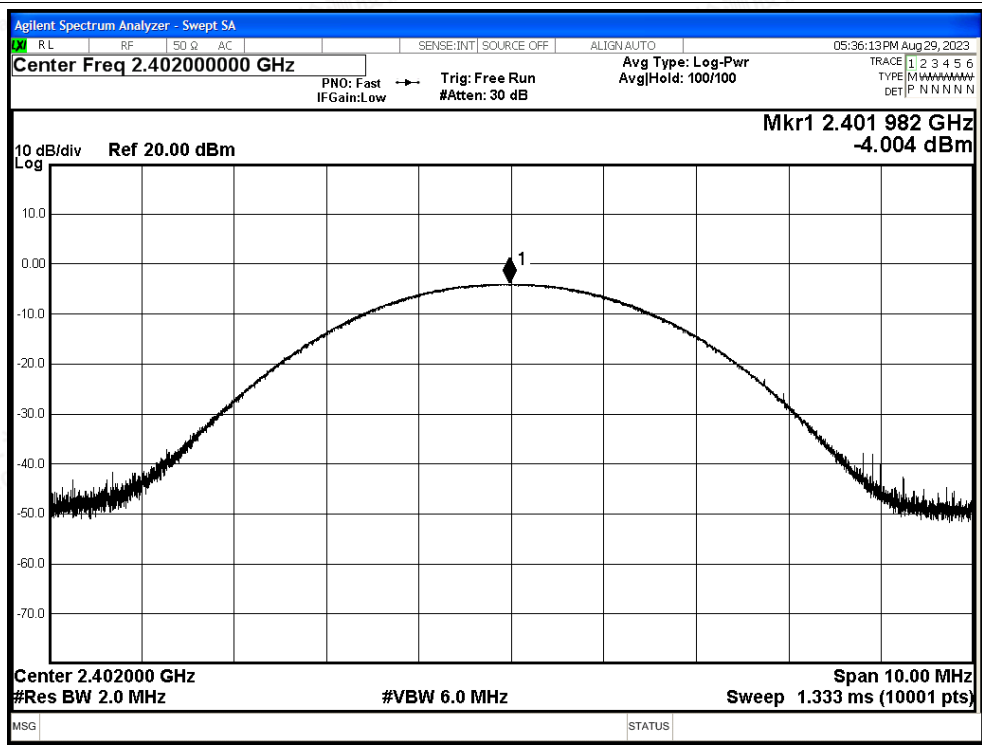




Power NVNT 1-DH5 2480MHz Ant1

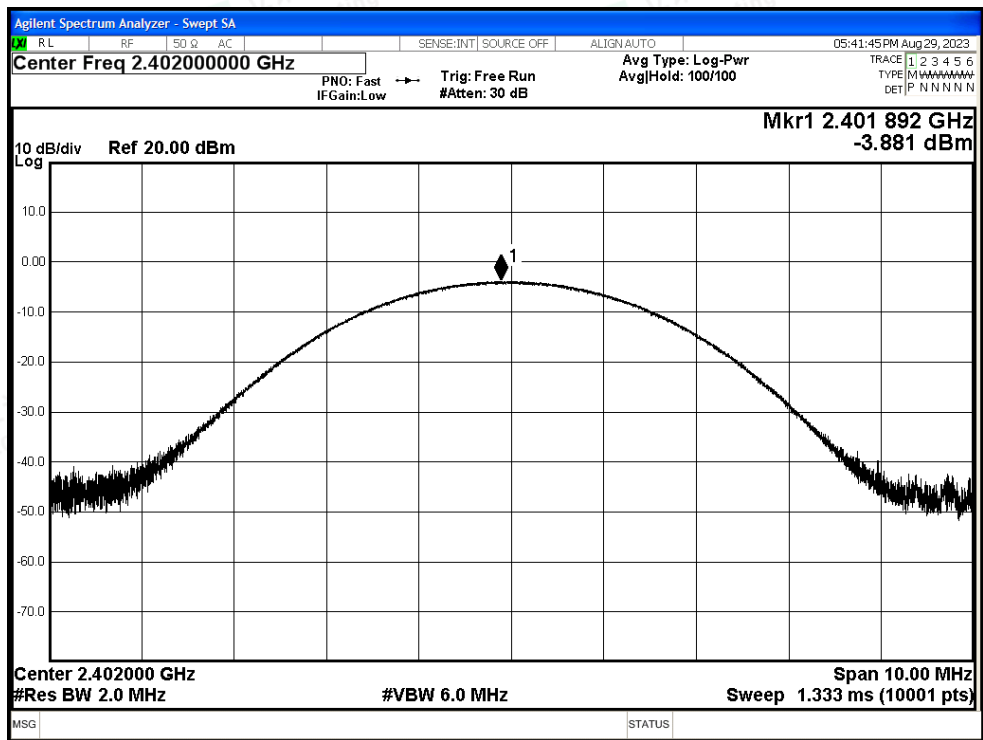


Power NVNT 2-DH5 2402MHz Ant1

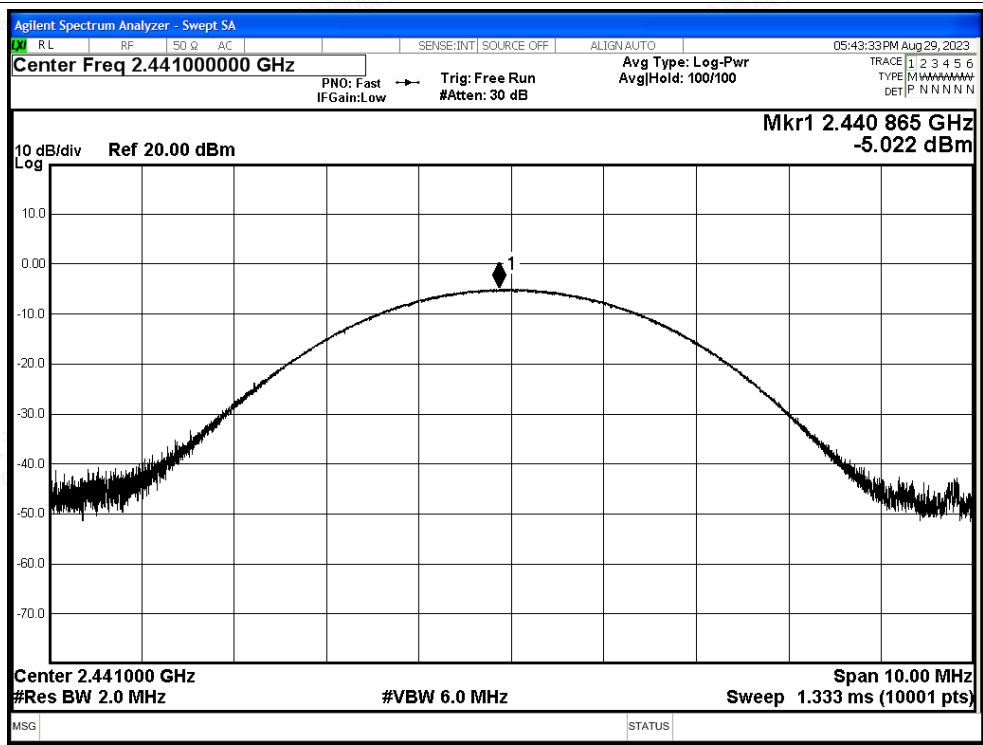


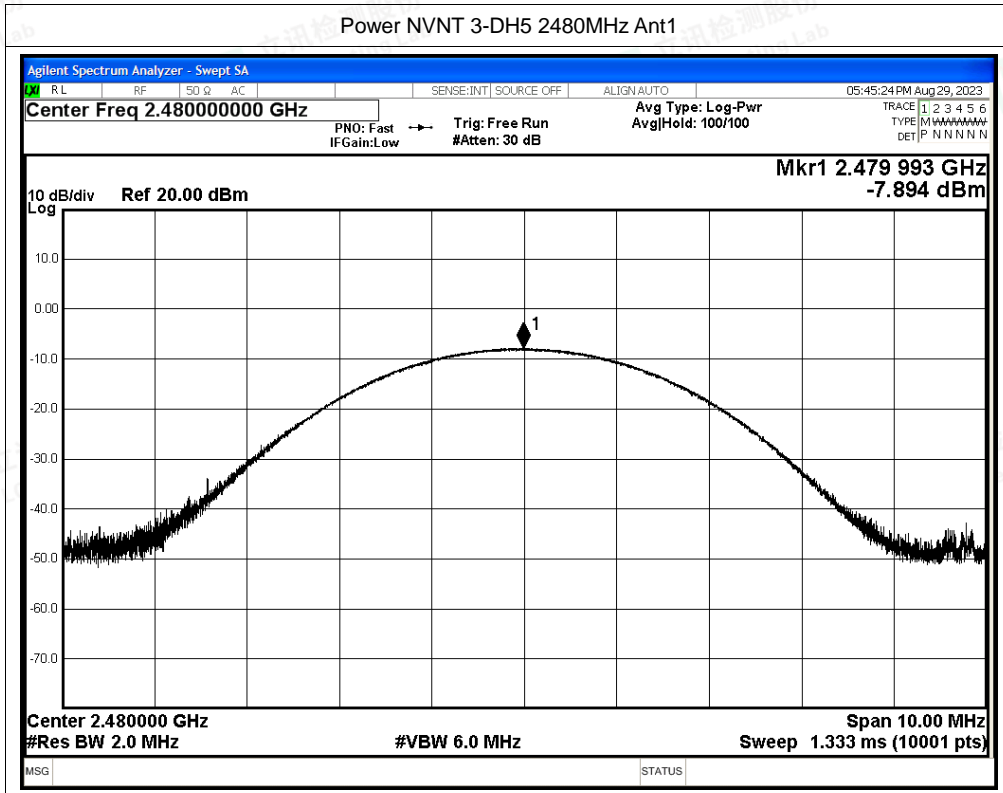


Power NVNT 3-DH5 2402MHz Ant1



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	2401.956	2402.876	0.92	0.638	Pass
NVNT	2-DH5	Ant1	2401.878	2402.984	1.106	1.021	Pass
NVNT	3-DH5	Ant1	2401.976	2402.98	1.004	0.992	Pass

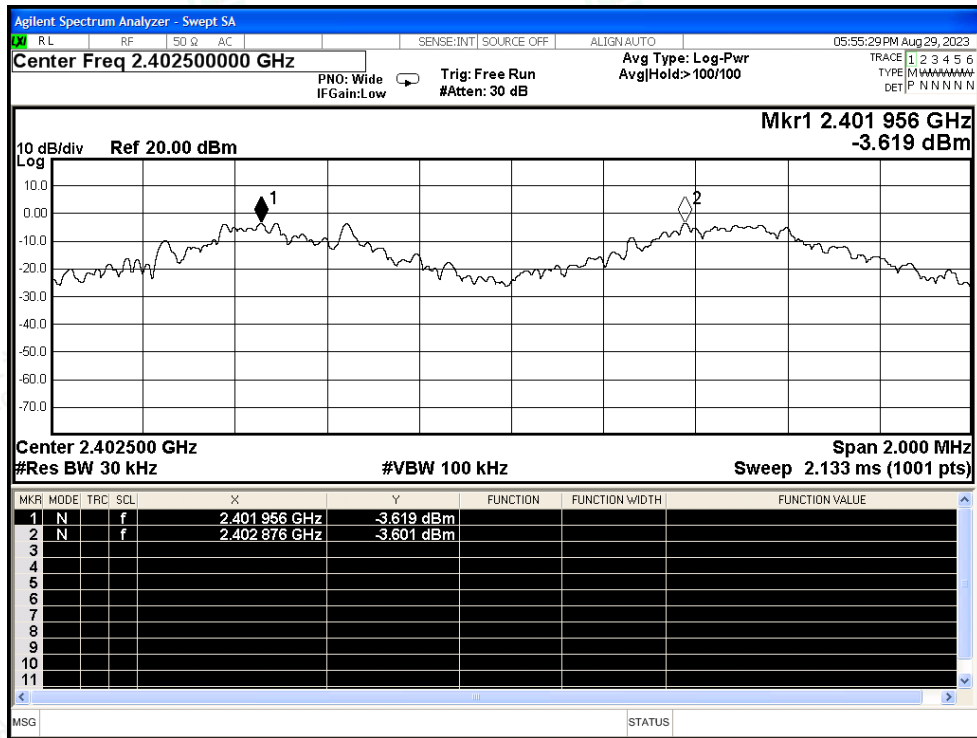


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

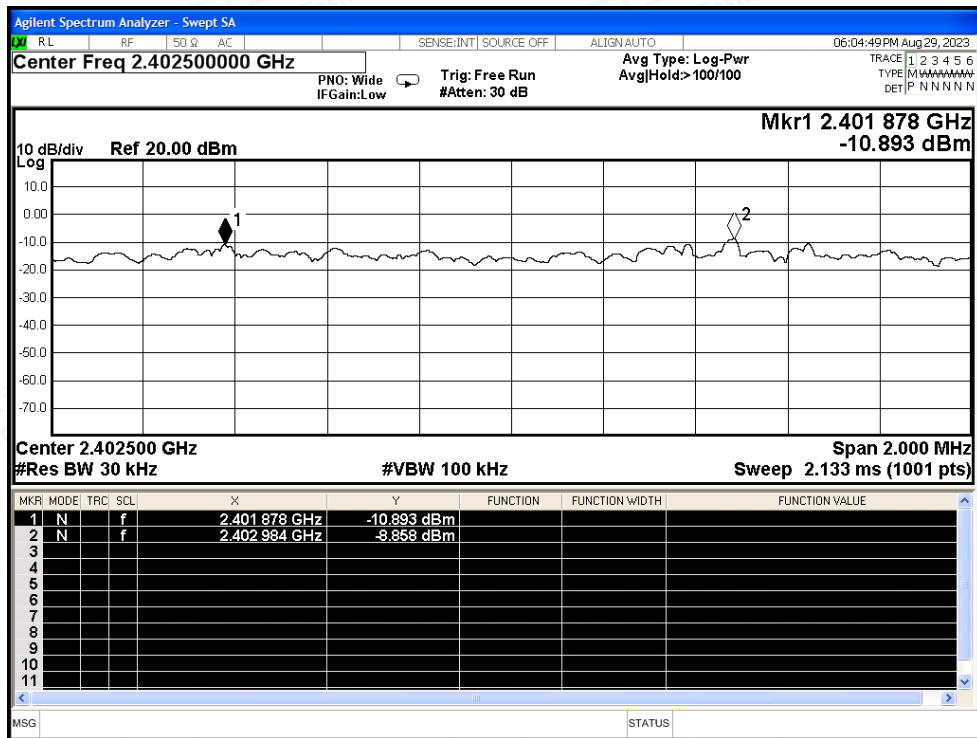


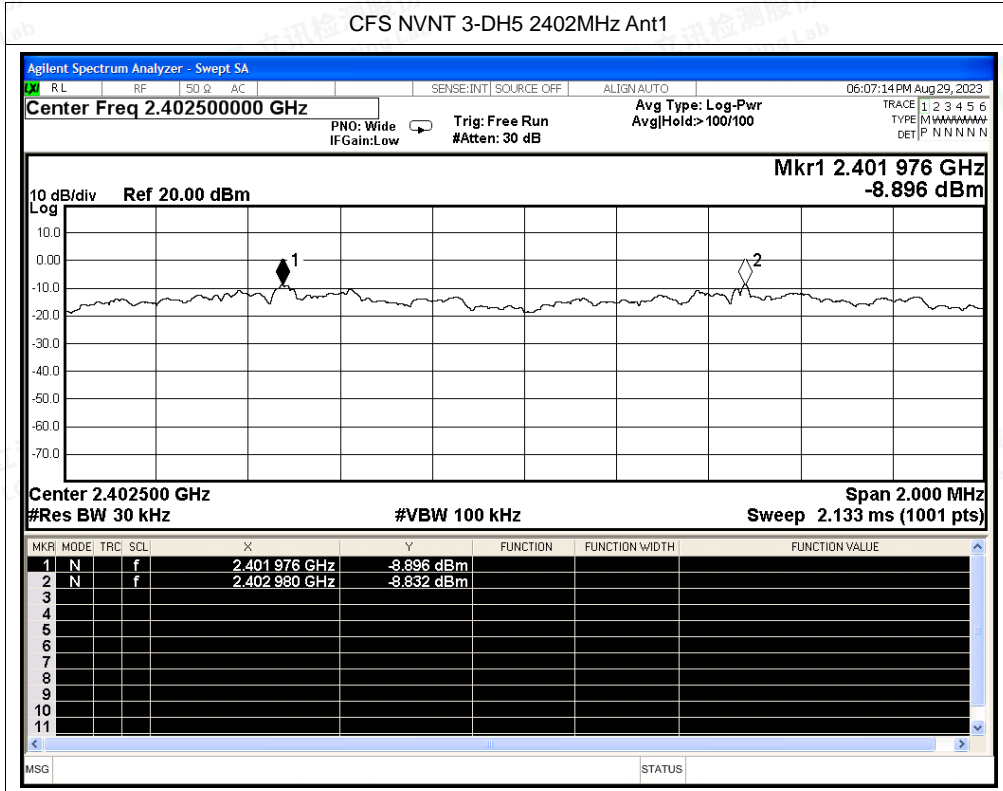
Test Graphs

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	2.884	288.4	100	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.889	306.234	106	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.891	326.683	113	31600	400	Pass

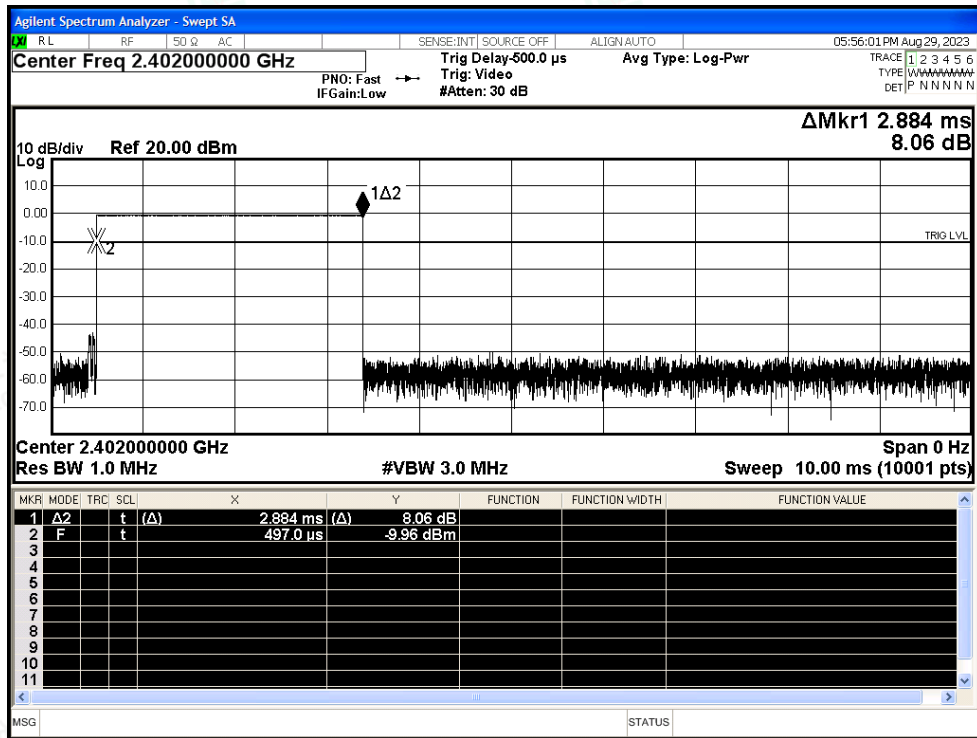


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

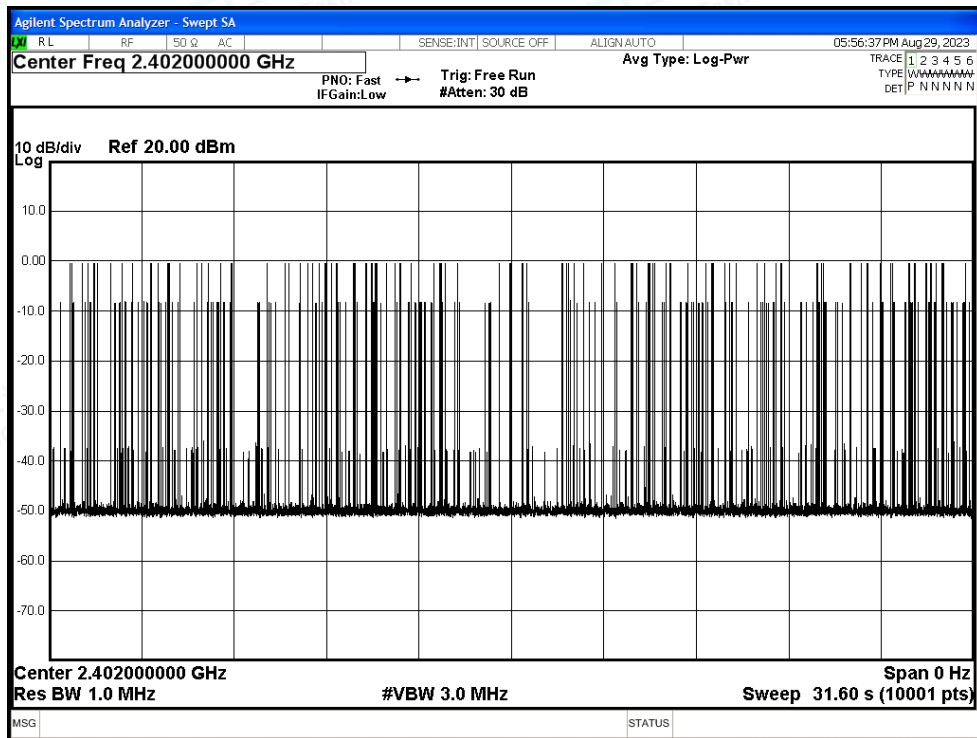


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

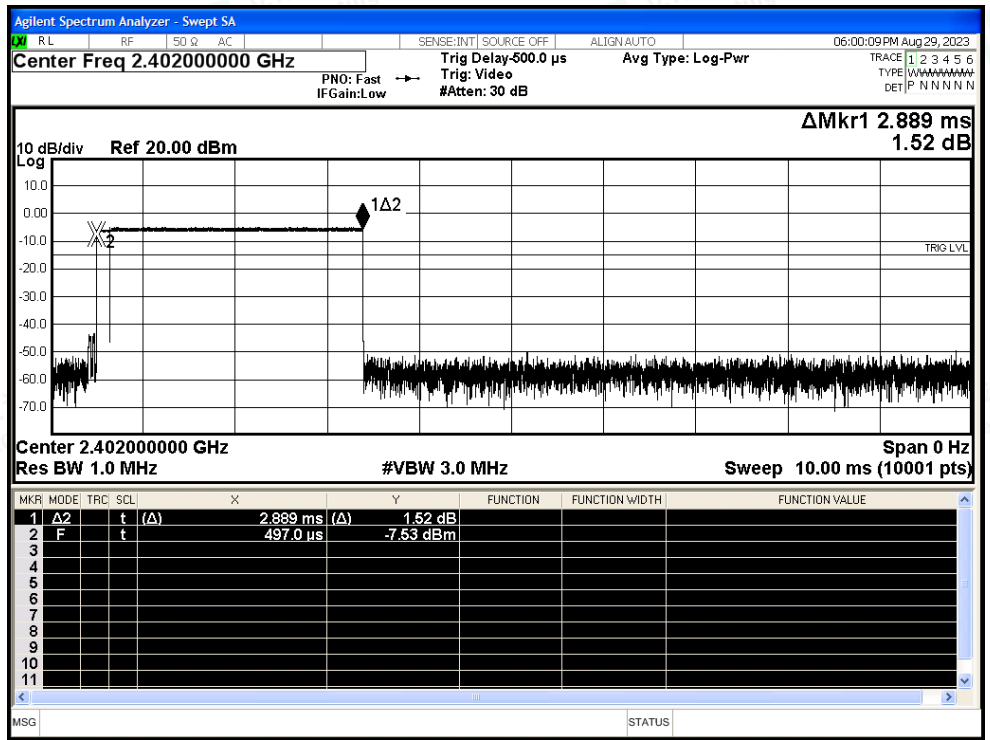


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

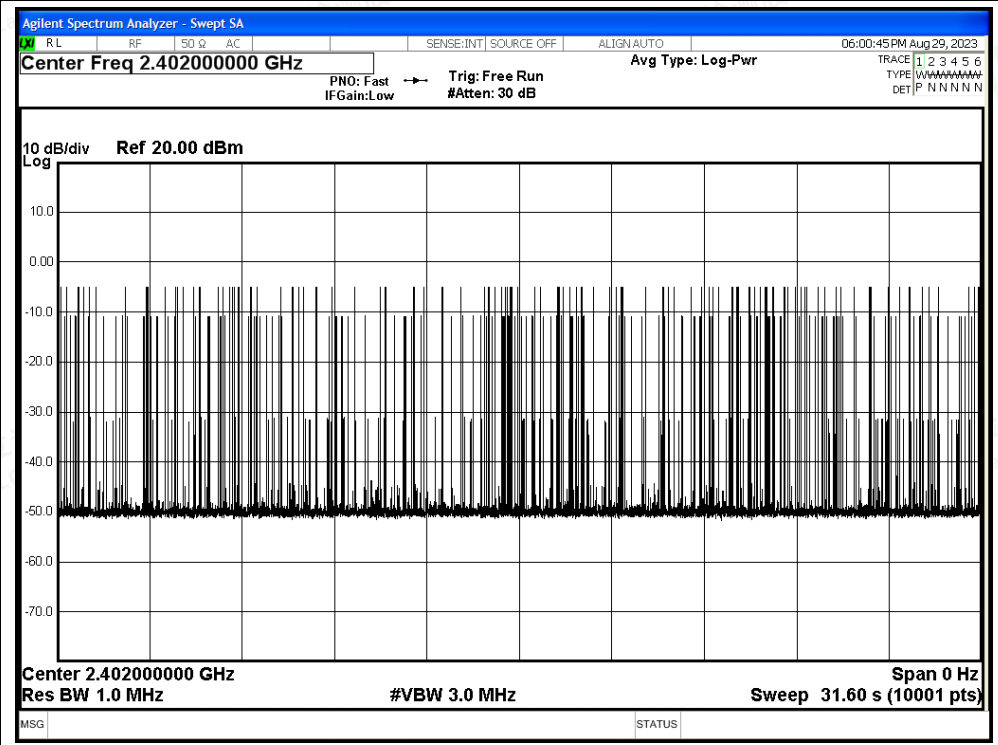




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

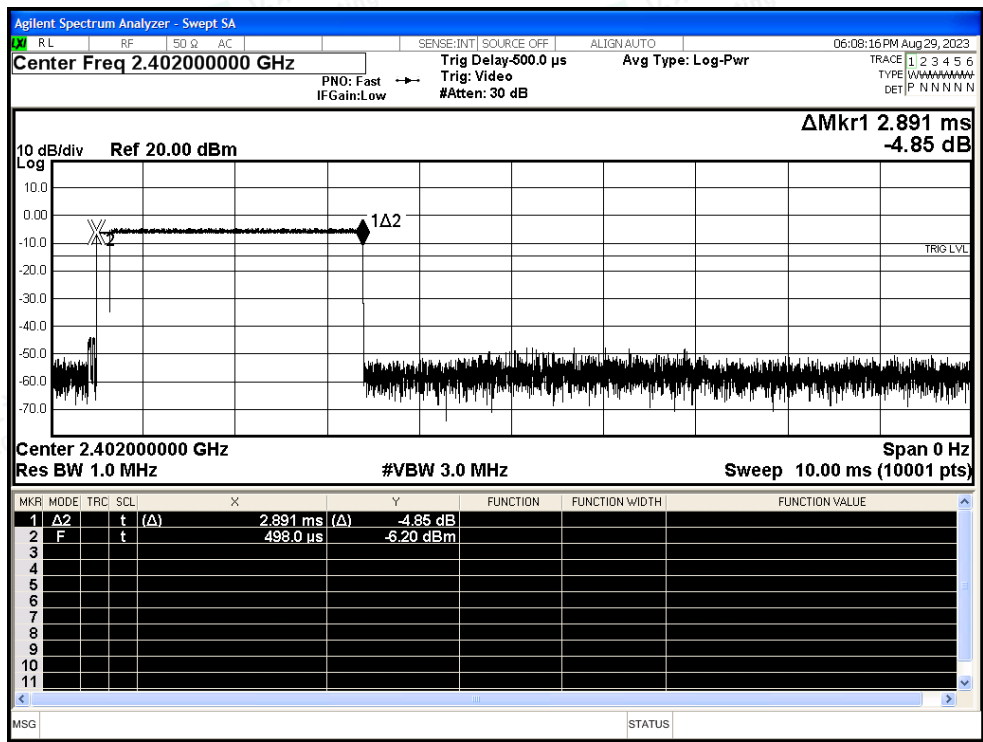


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

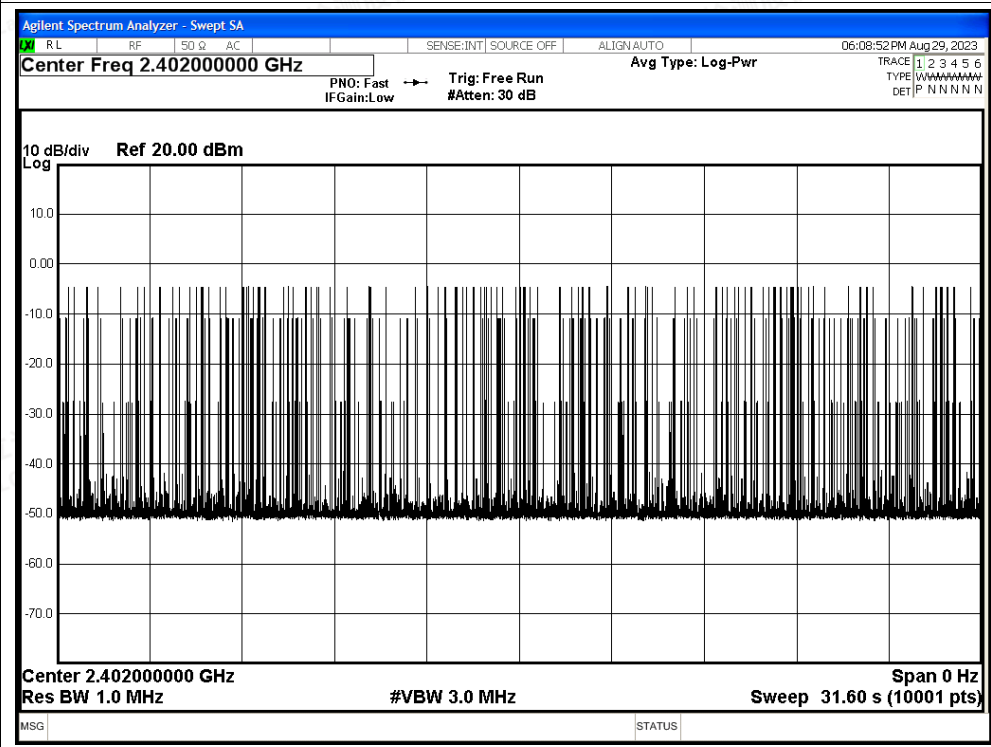




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

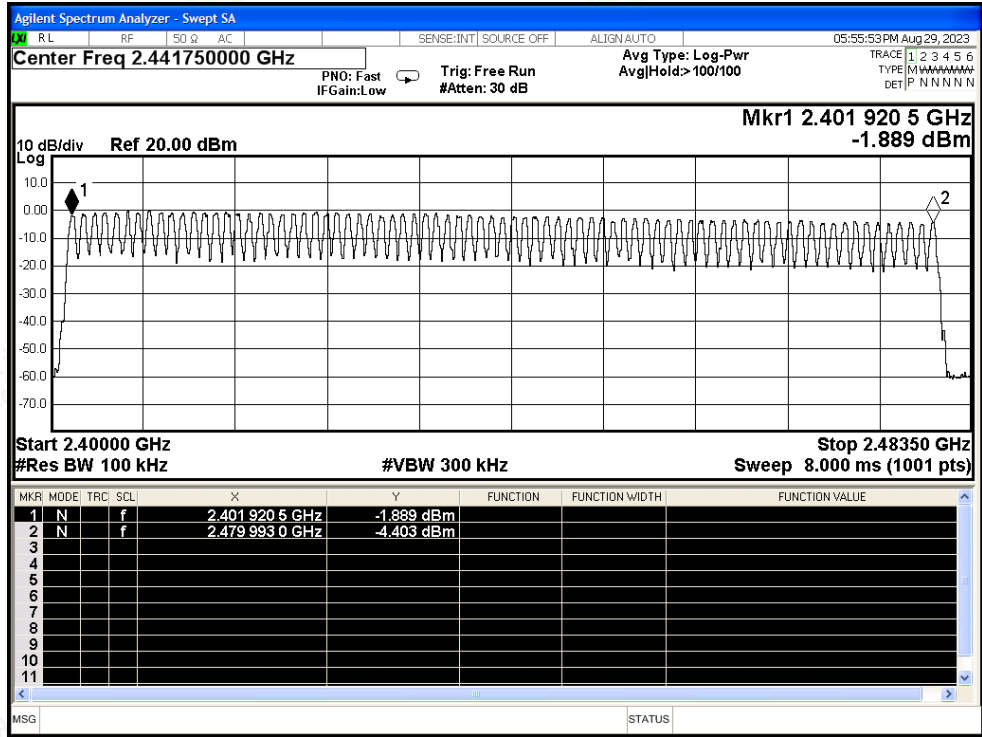
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



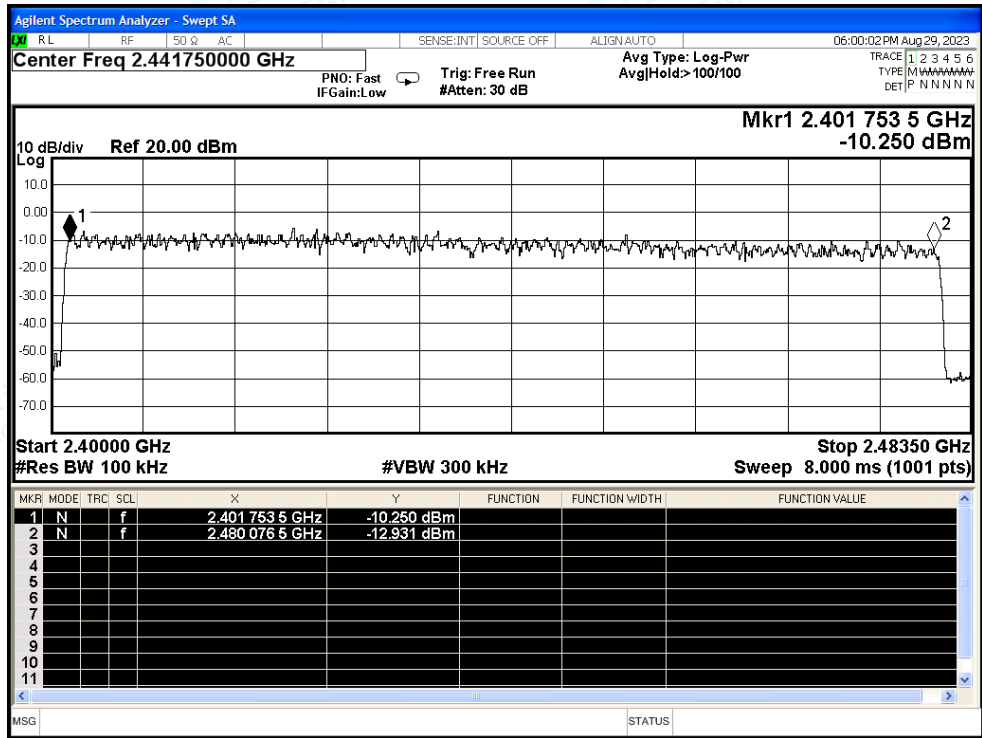


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

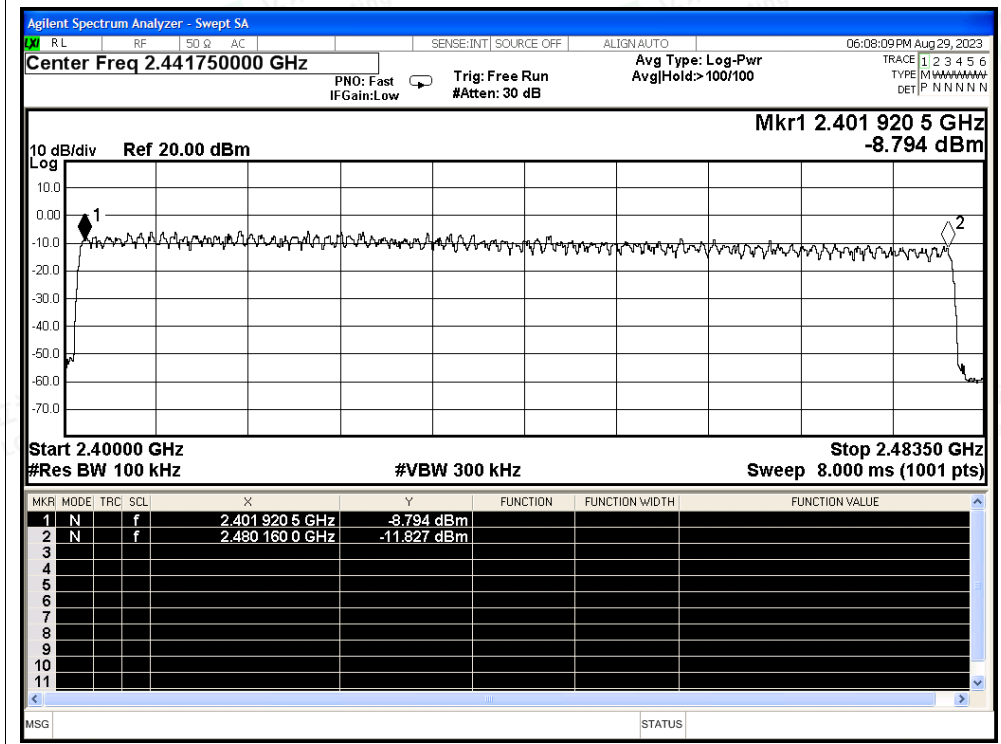


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

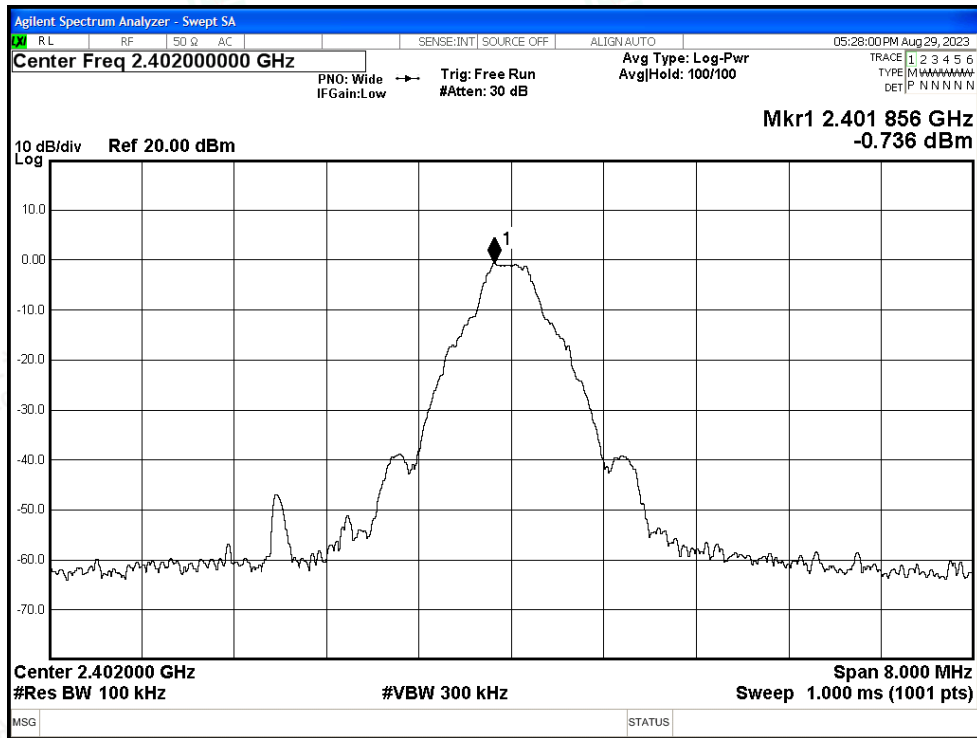
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.19	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-42.75	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-46.85	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-36.28	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-47.71	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-47.28	-20	Pass



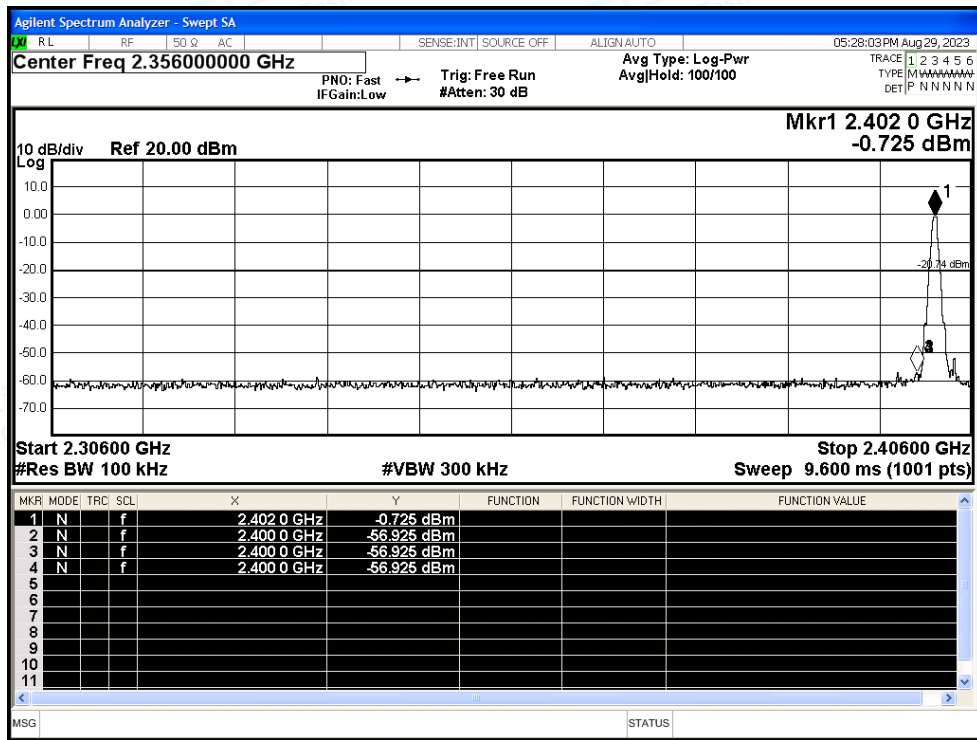


Test Graphs

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

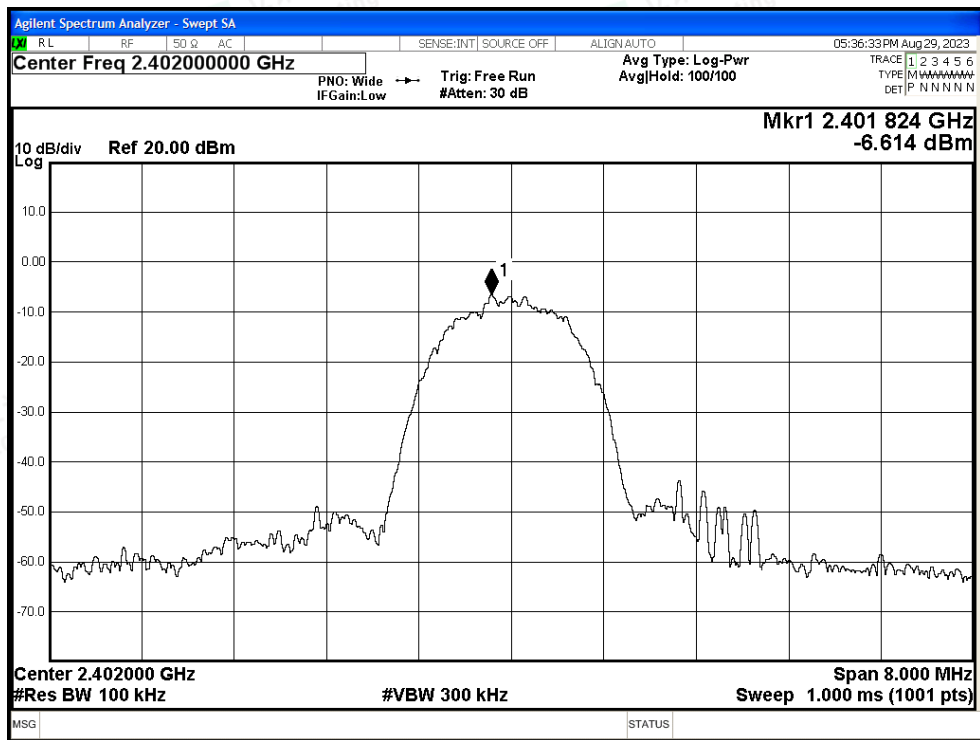


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

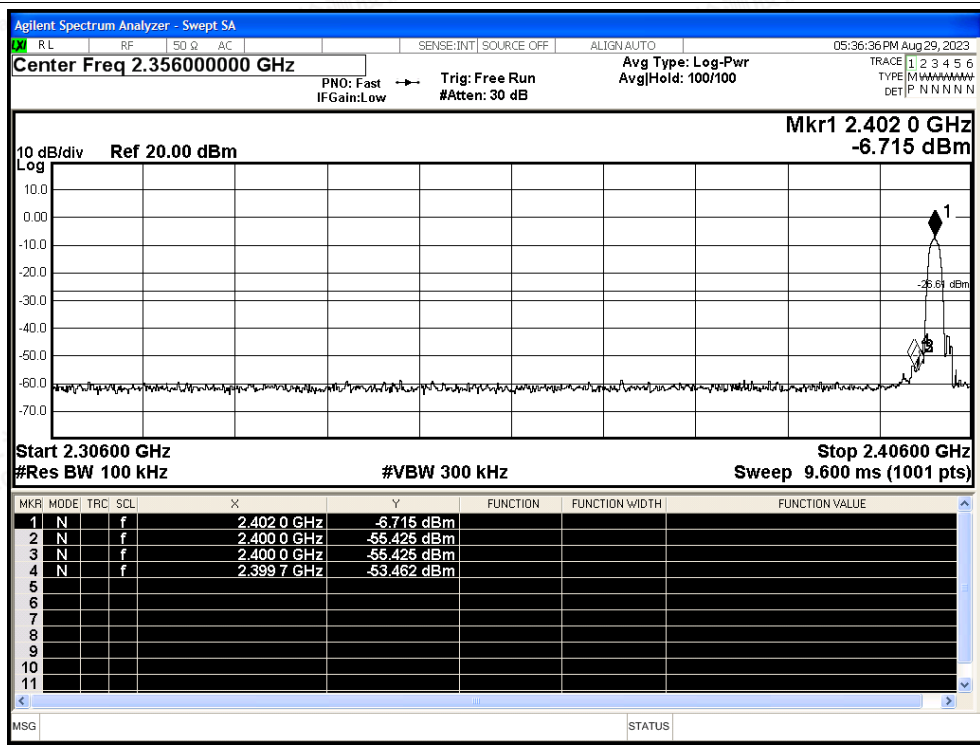




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

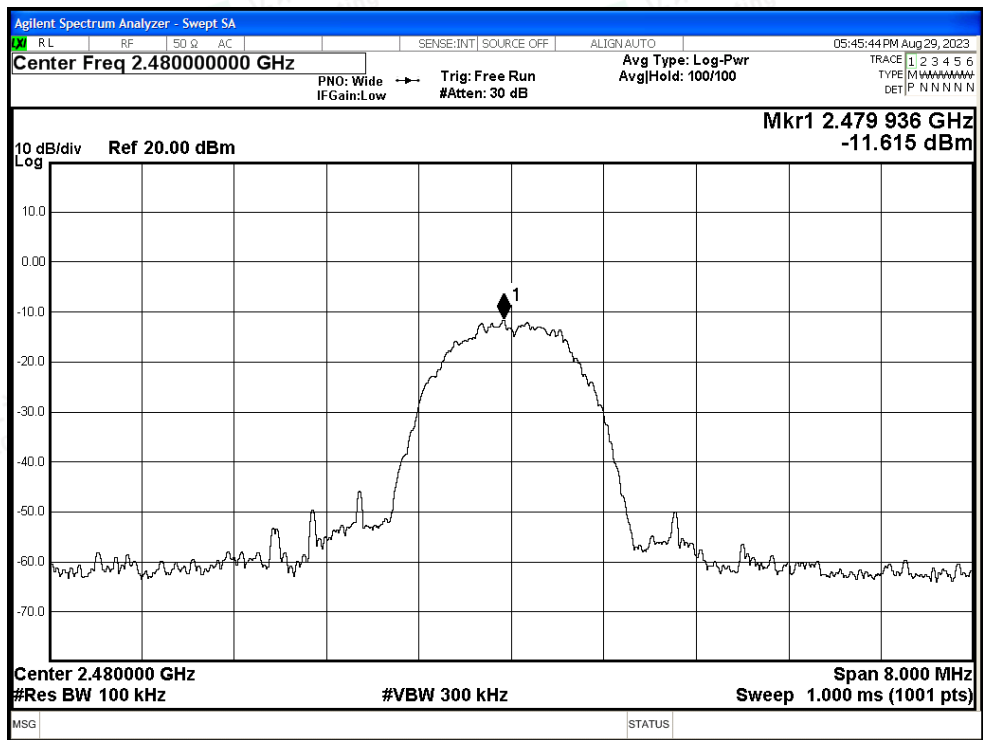


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

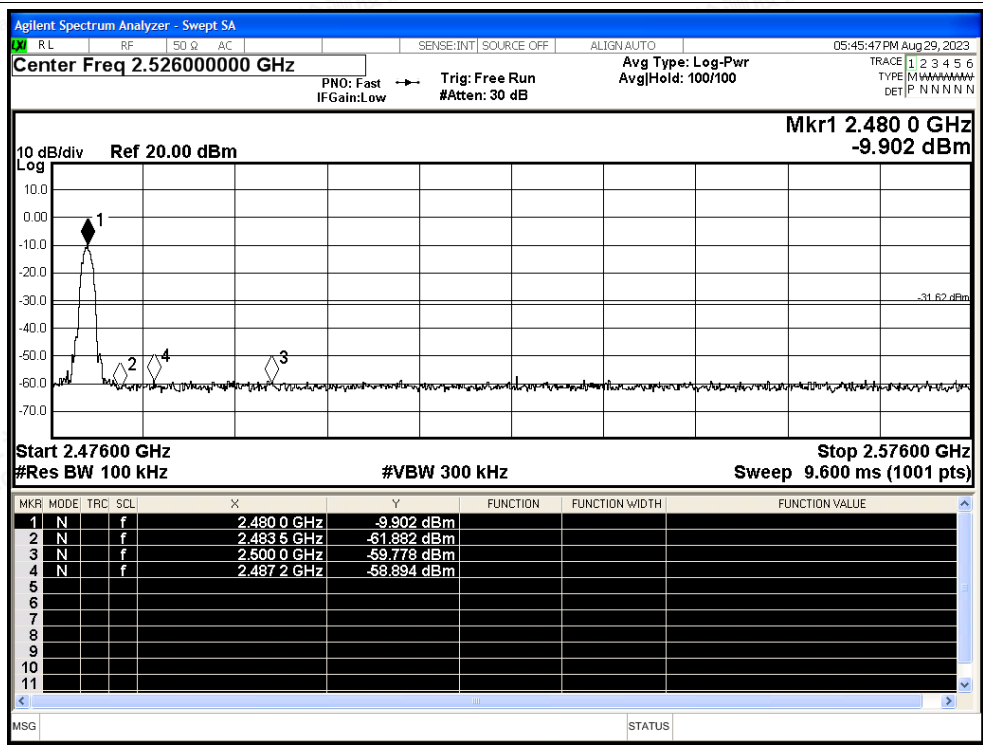




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

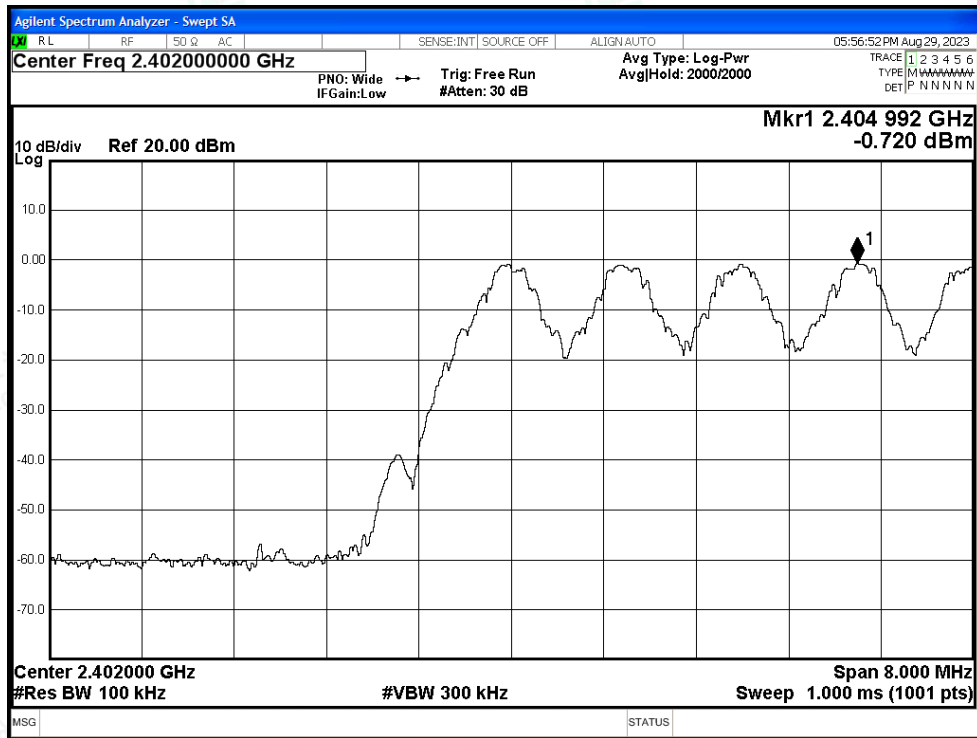
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.62	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.18	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-50.67	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-36.38	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.36	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-46.71	-20	Pass



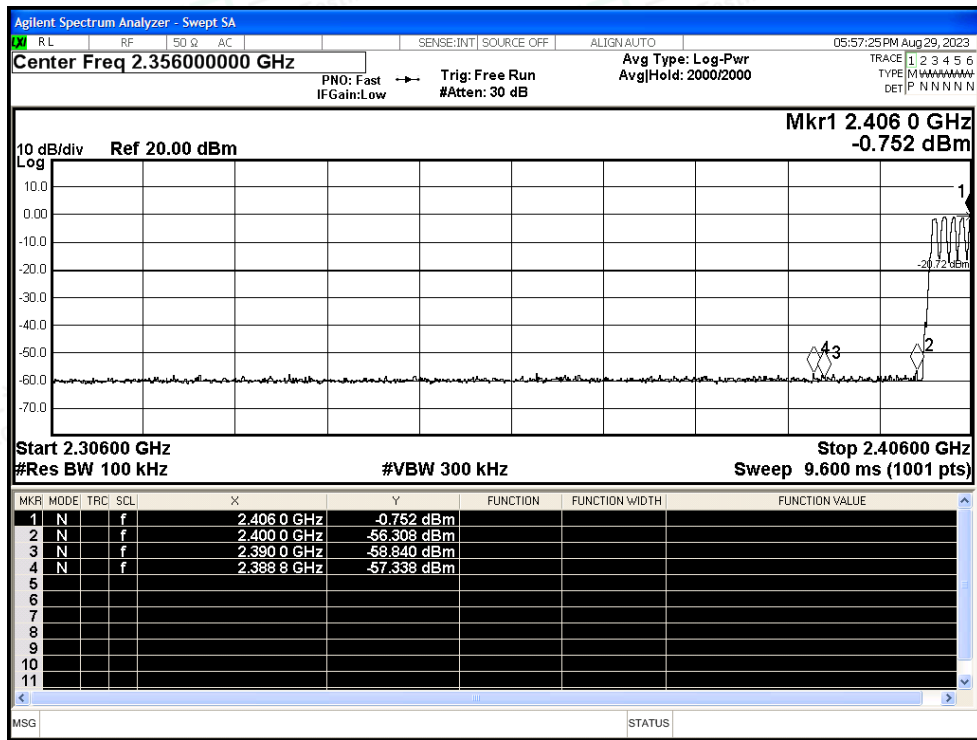


Test Graphs

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

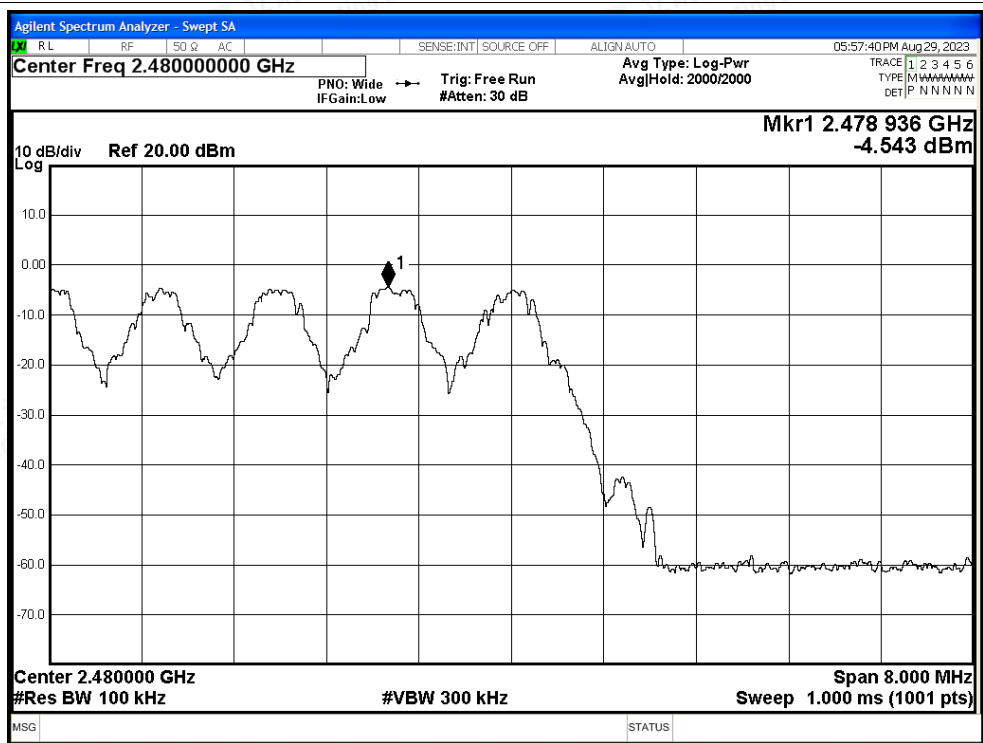


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

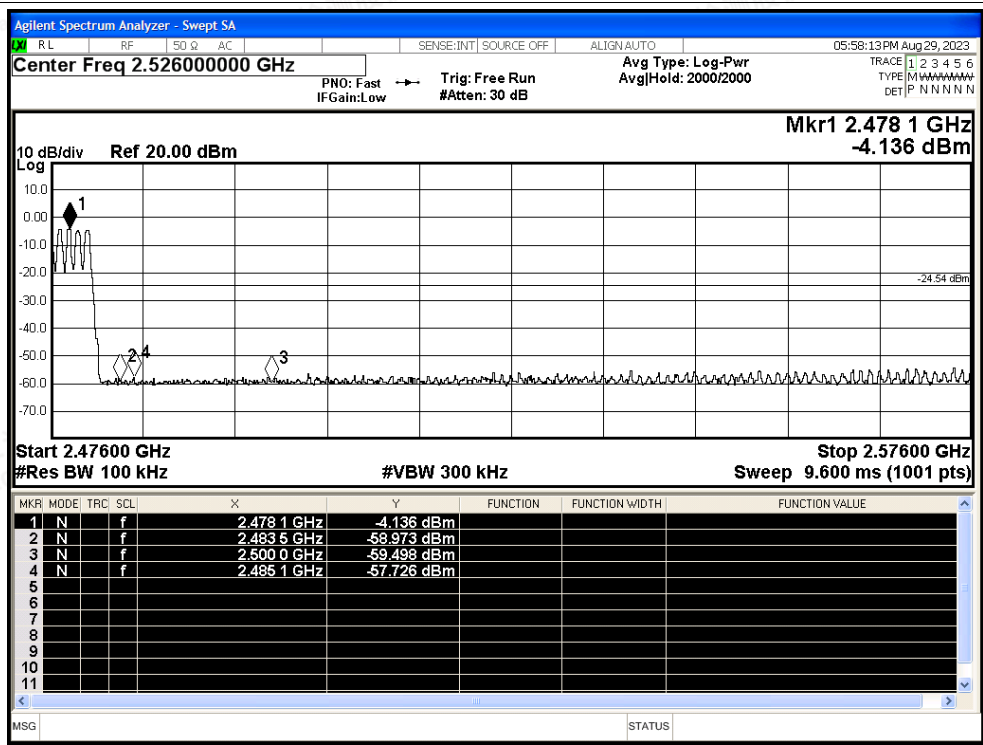




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

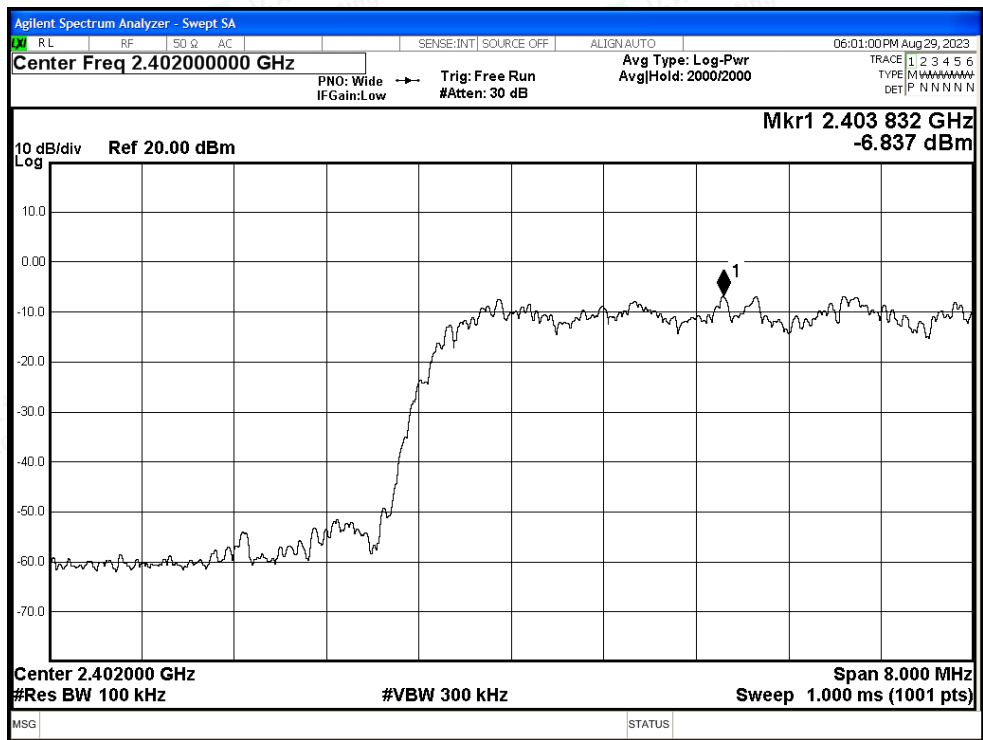


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

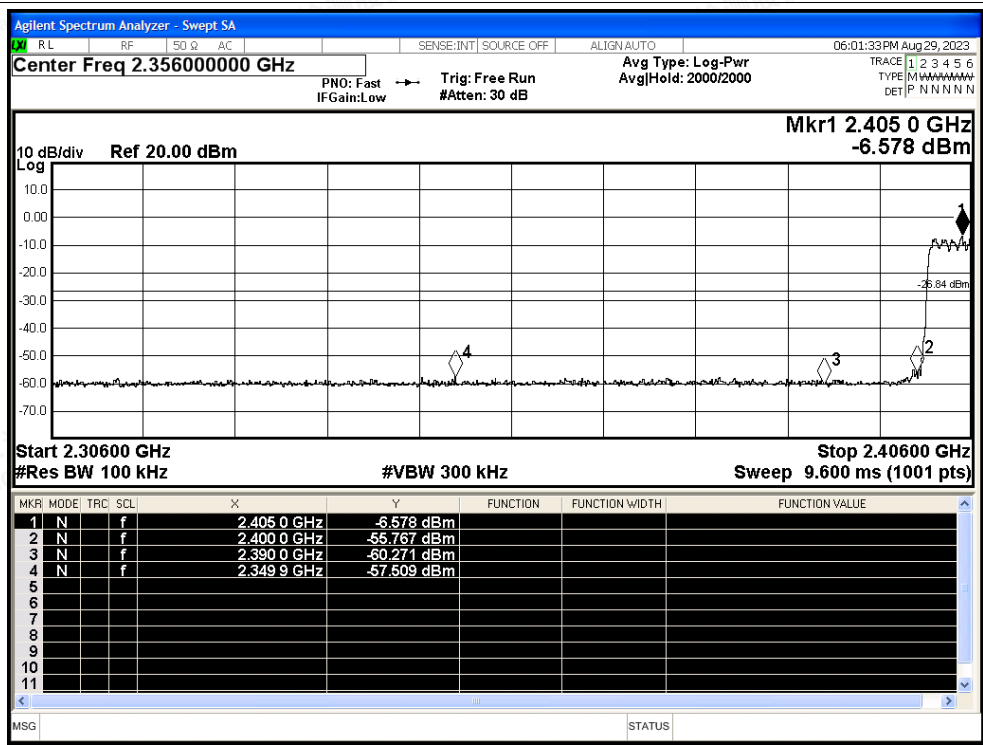




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

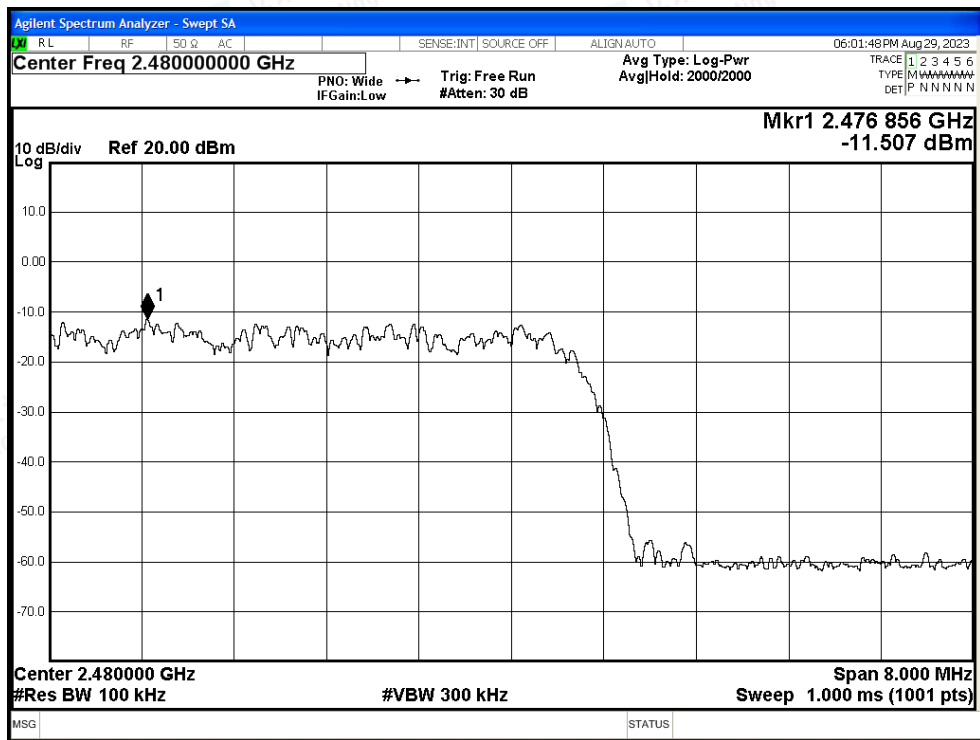


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

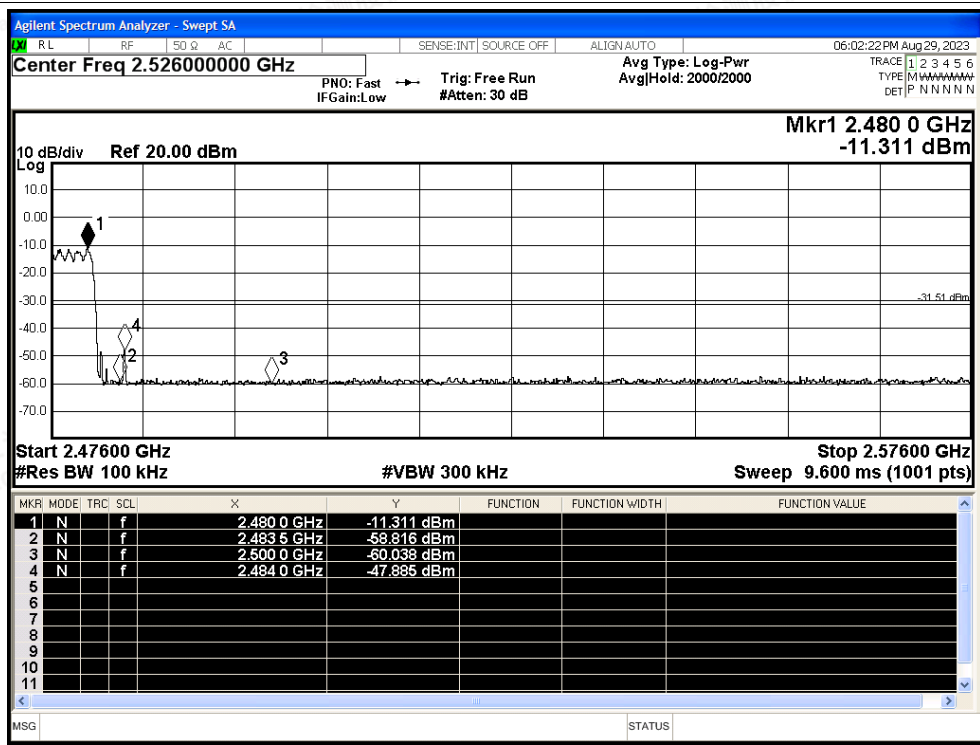




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

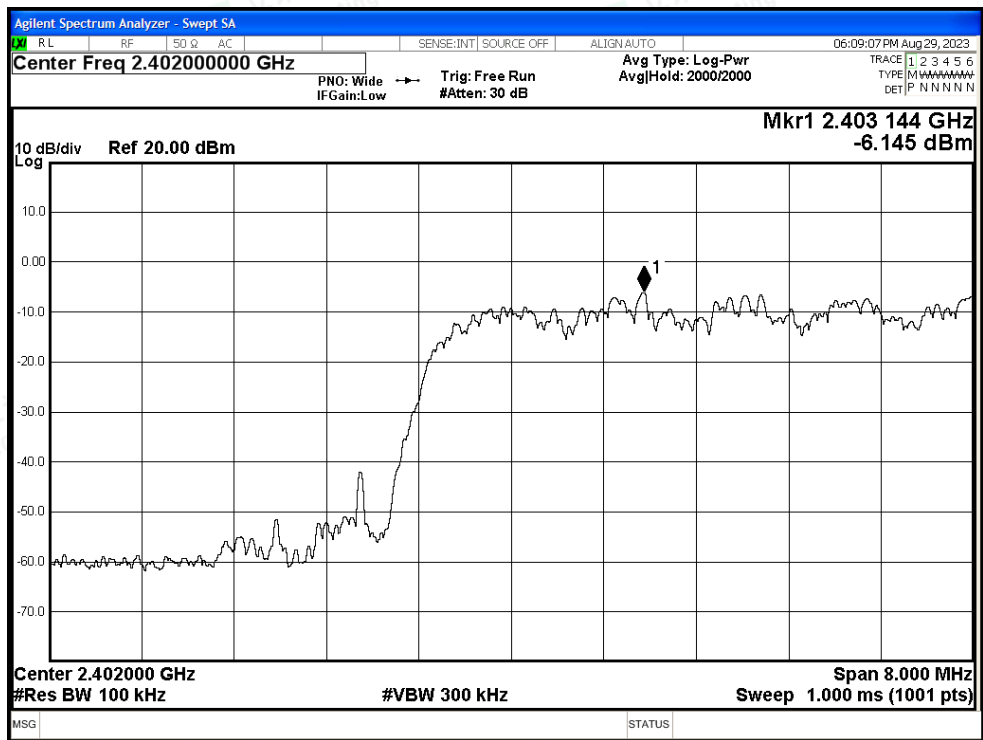


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

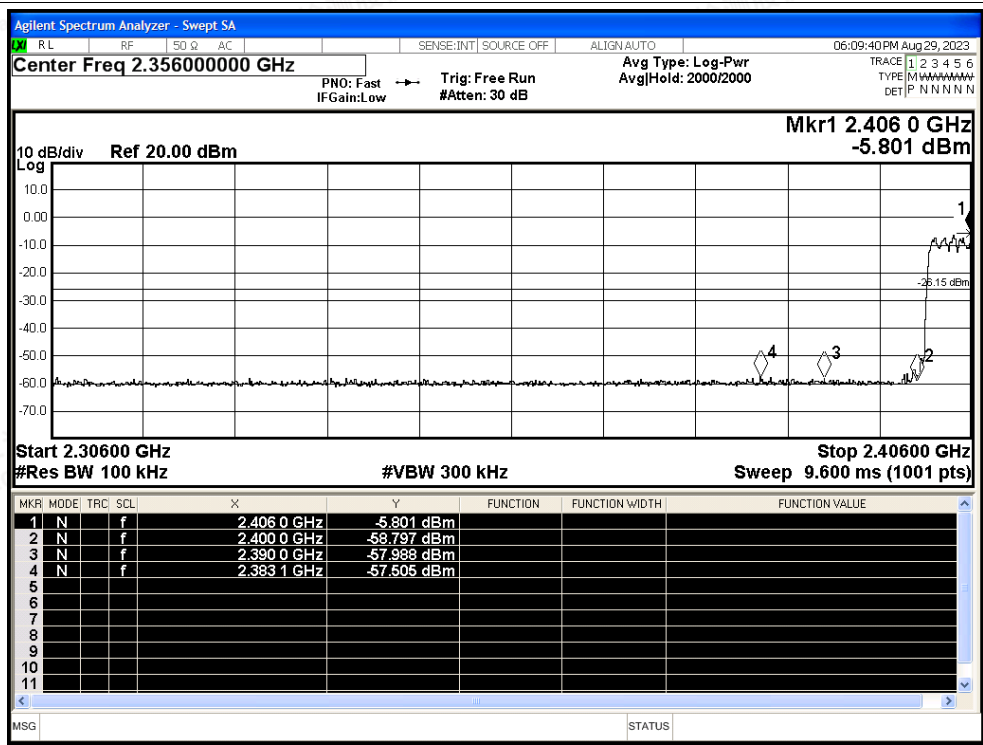




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

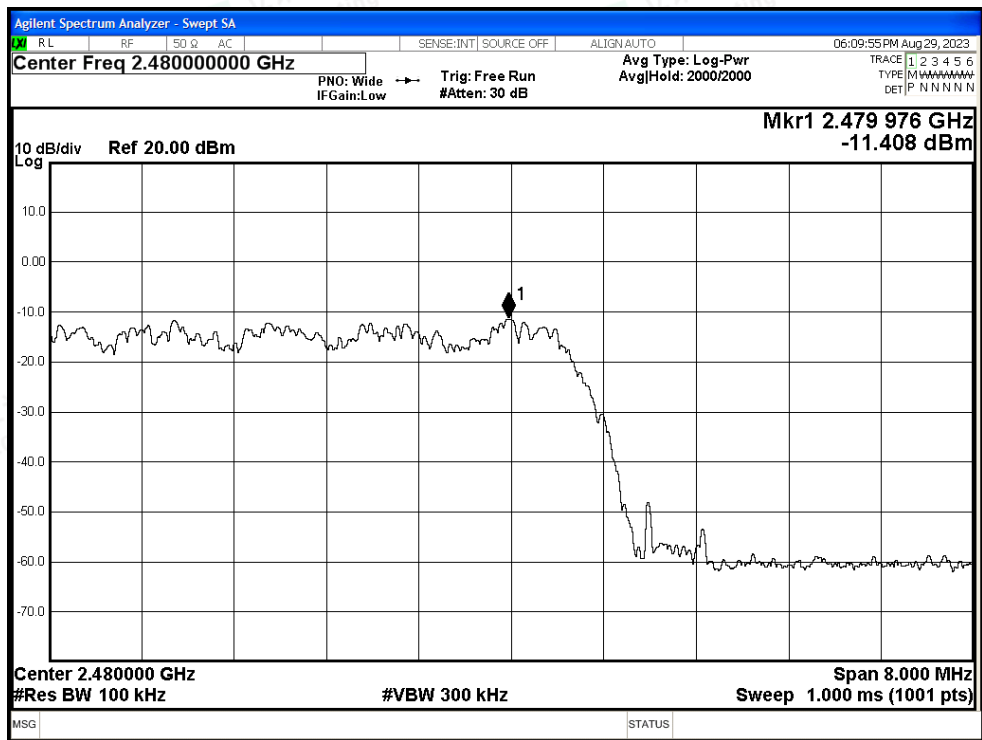


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

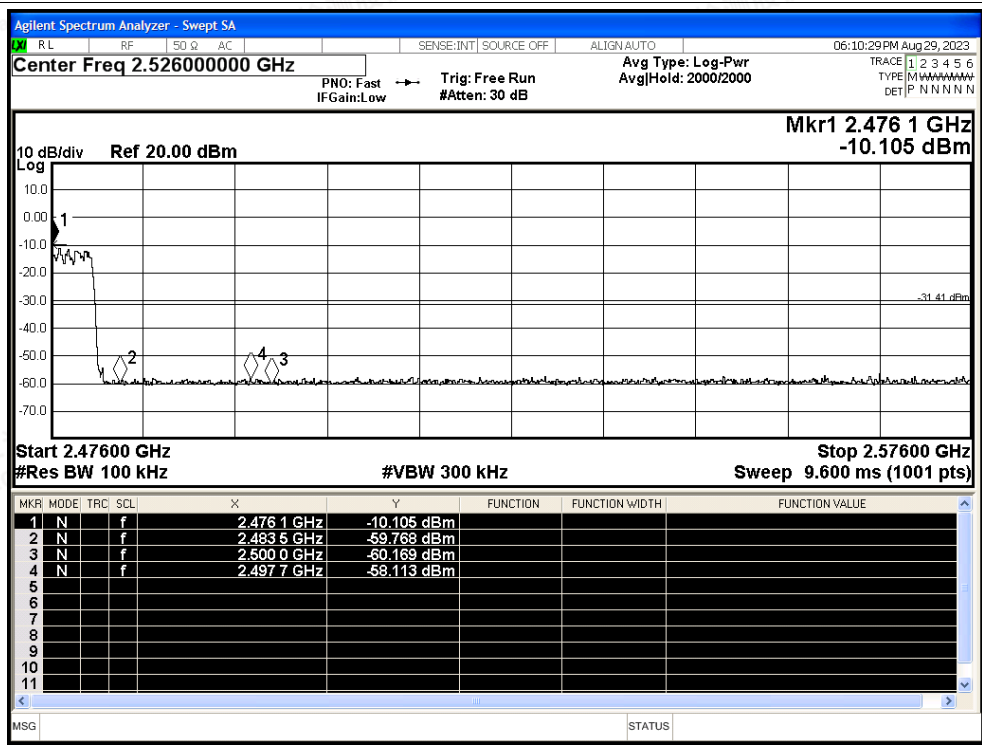




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-53.18	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.29	-20	Pass
NVNT	1-DH5	2480	Ant1	-52.76	-20	Pass
NVNT	2-DH5	2402	Ant1	-50.34	-20	Pass
NVNT	2-DH5	2441	Ant1	-49.54	-20	Pass
NVNT	2-DH5	2480	Ant1	-47.62	-20	Pass
NVNT	3-DH5	2402	Ant1	-50.38	-20	Pass
NVNT	3-DH5	2441	Ant1	-49.98	-20	Pass
NVNT	3-DH5	2480	Ant1	-47.09	-20	Pass

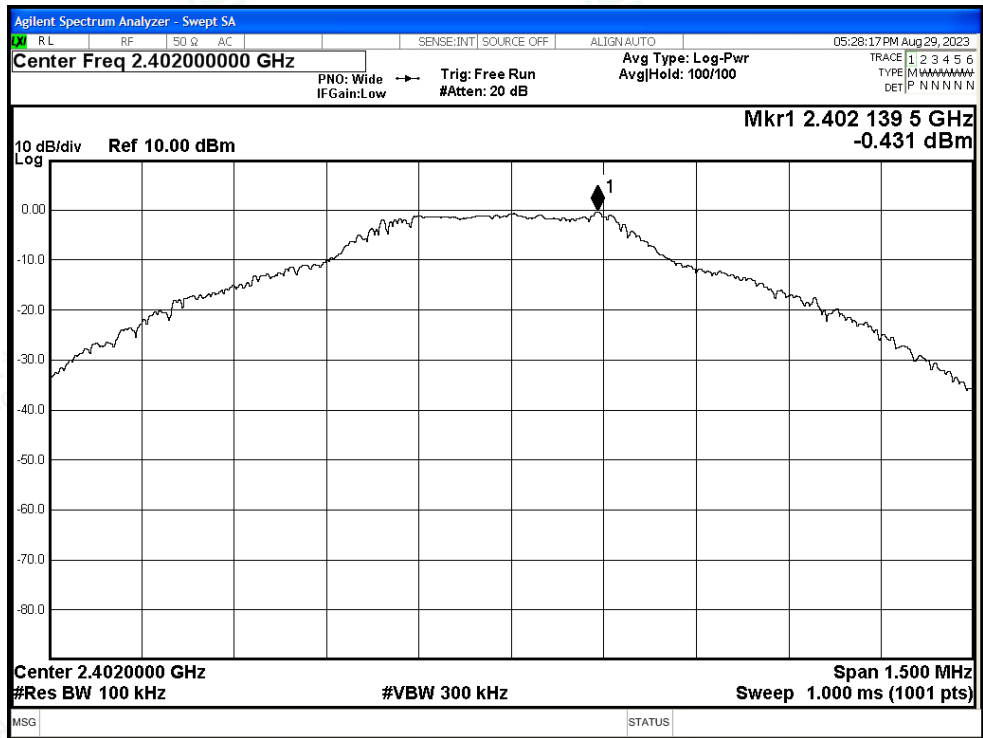


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Scan code to check authenticity

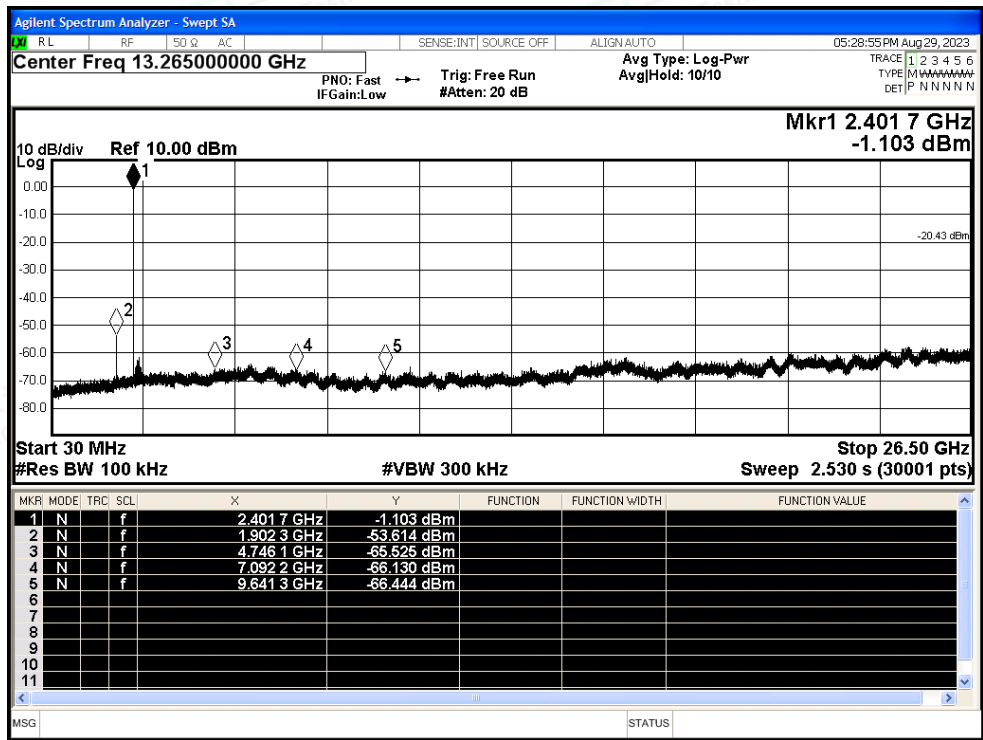


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

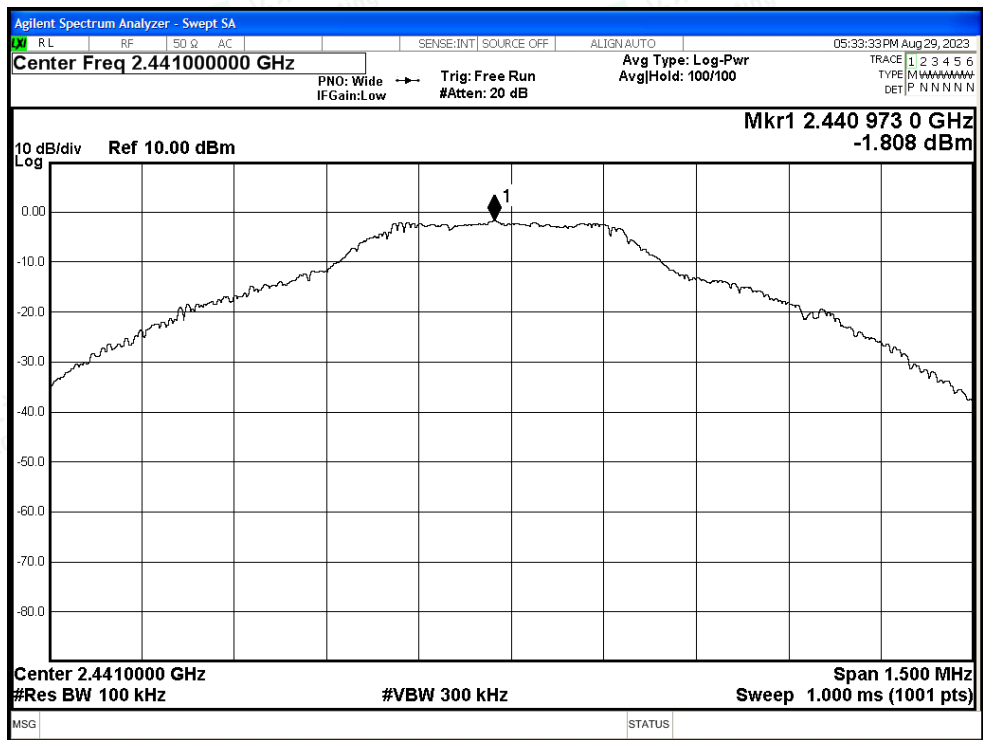


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

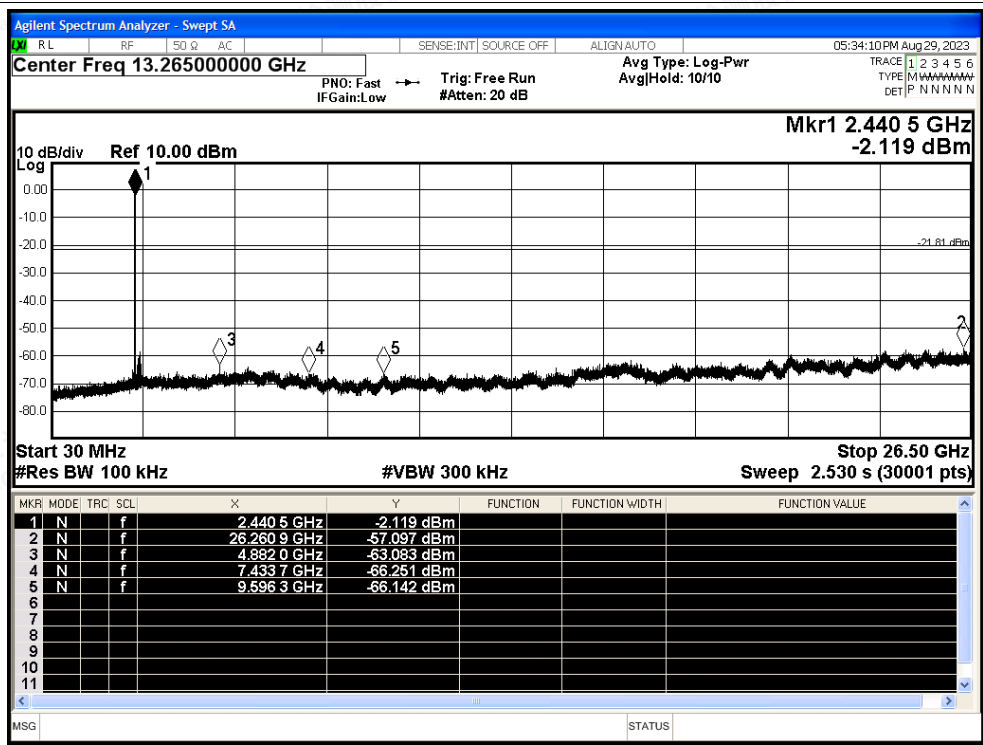




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

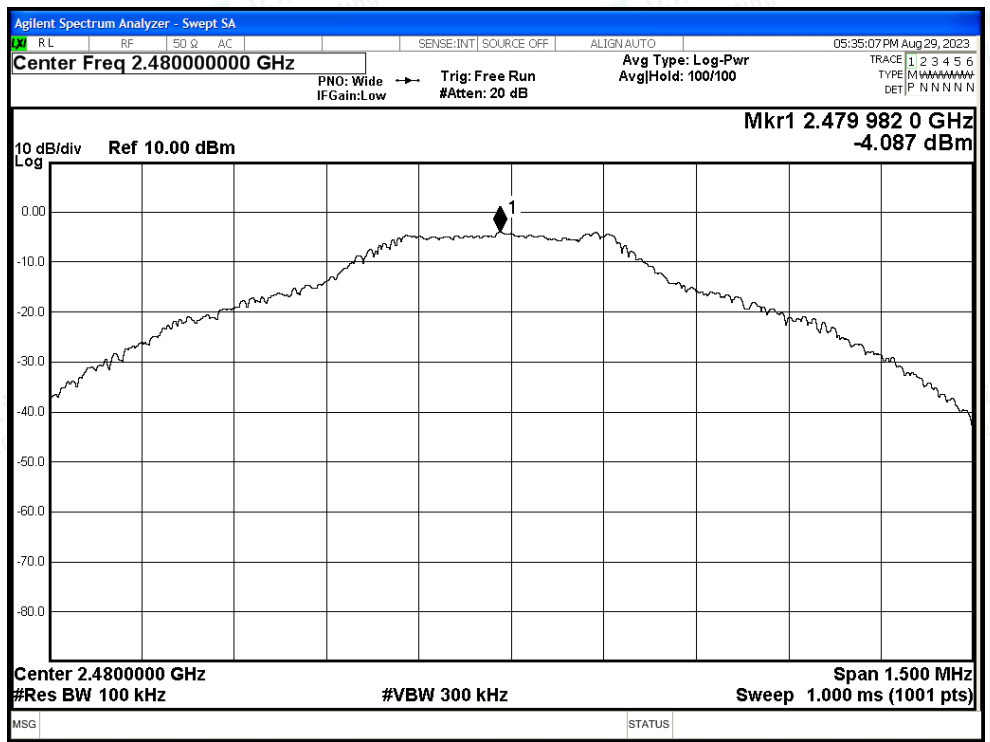


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

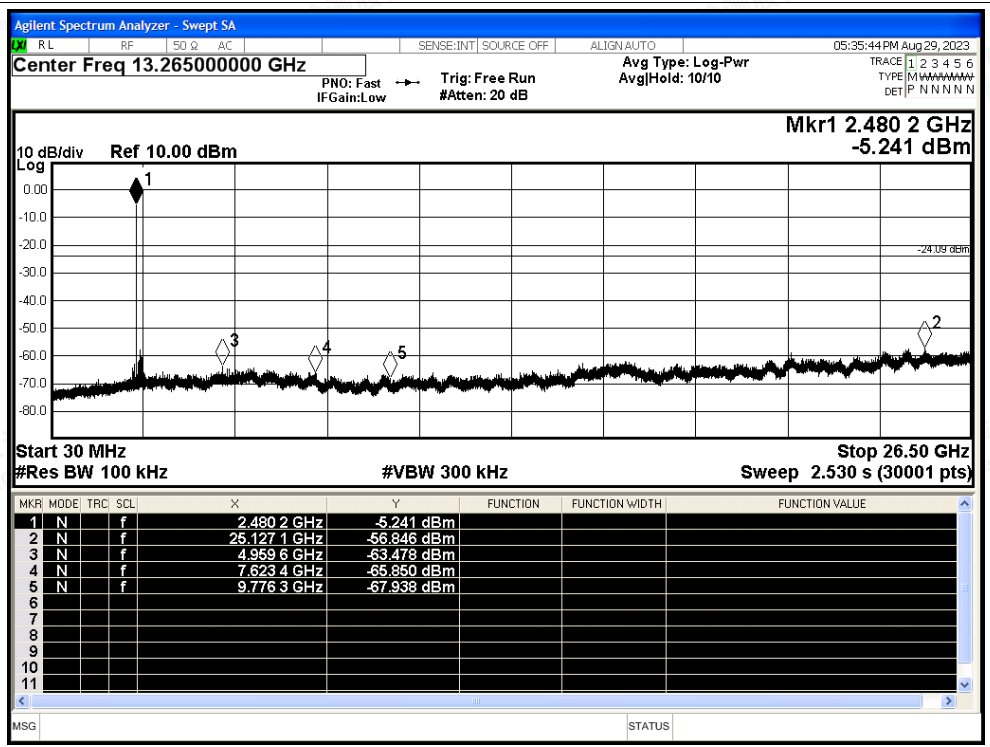




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

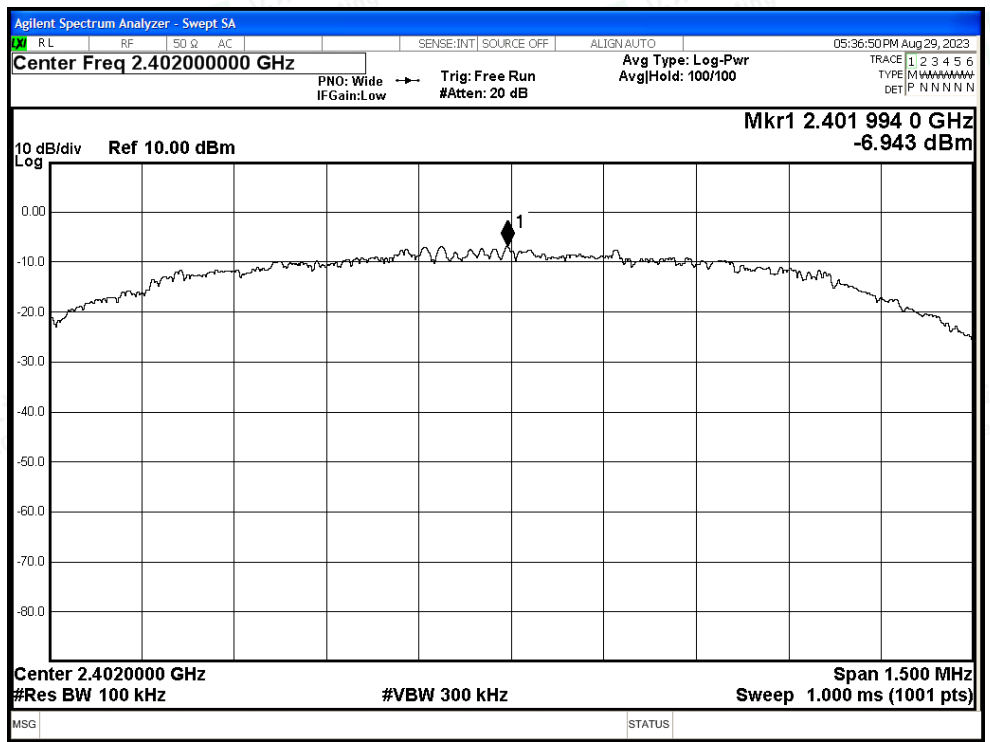


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

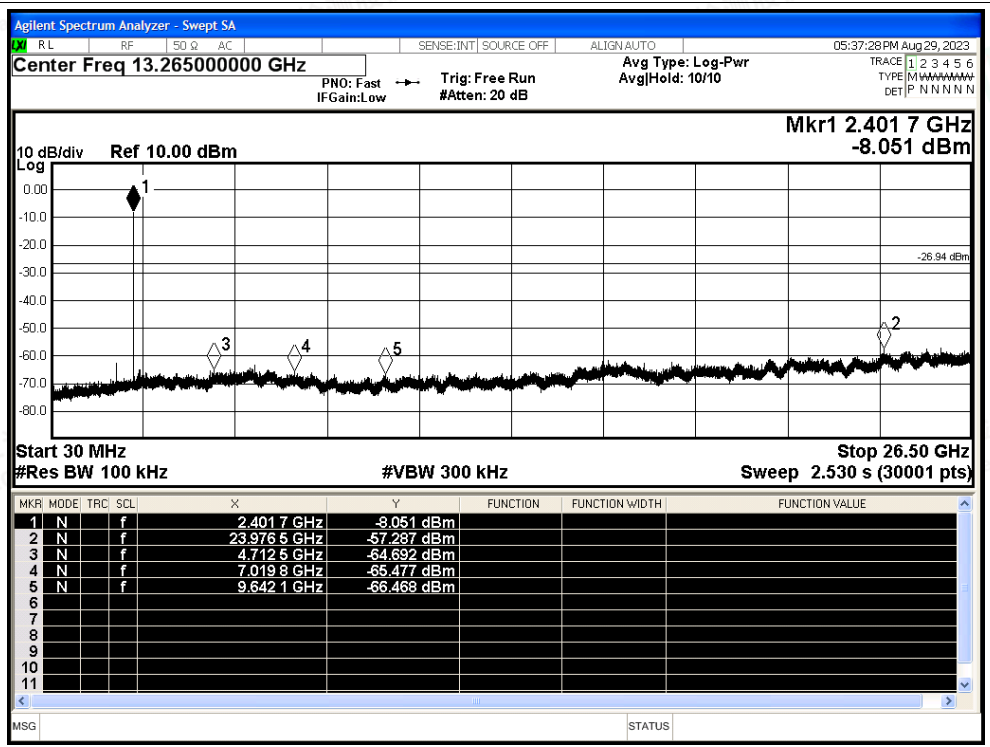




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

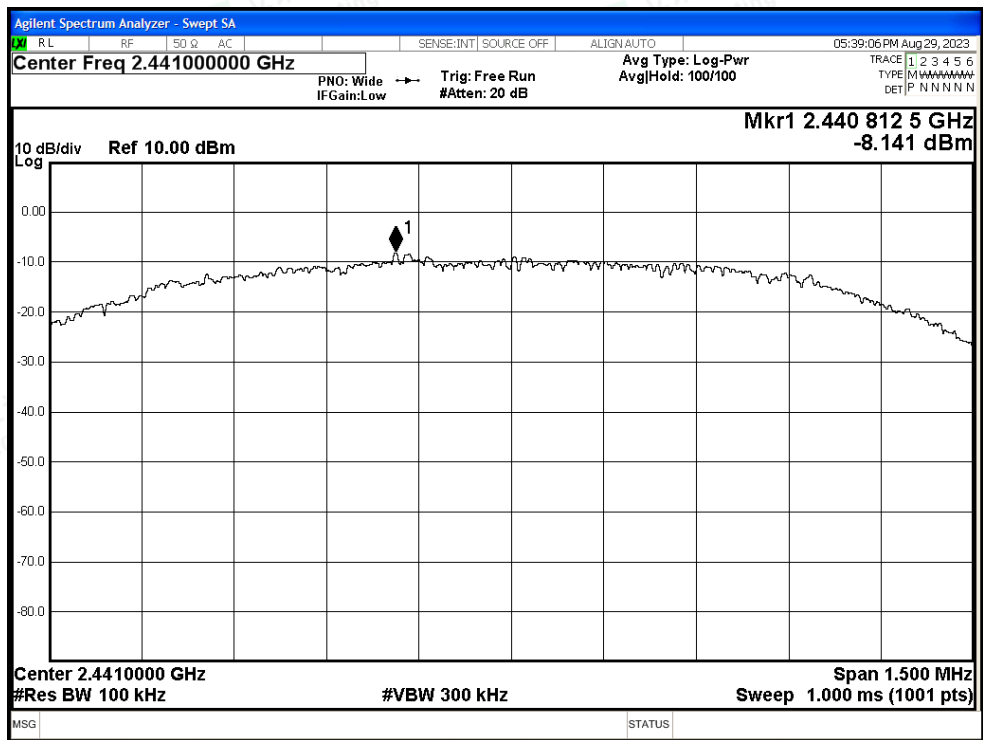


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

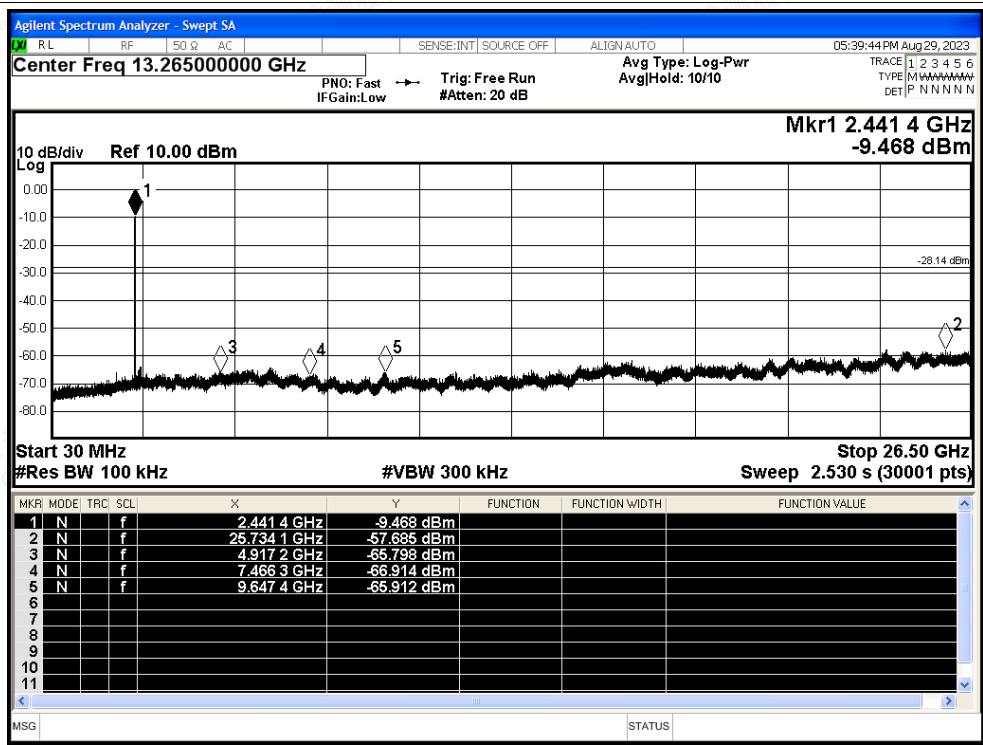




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

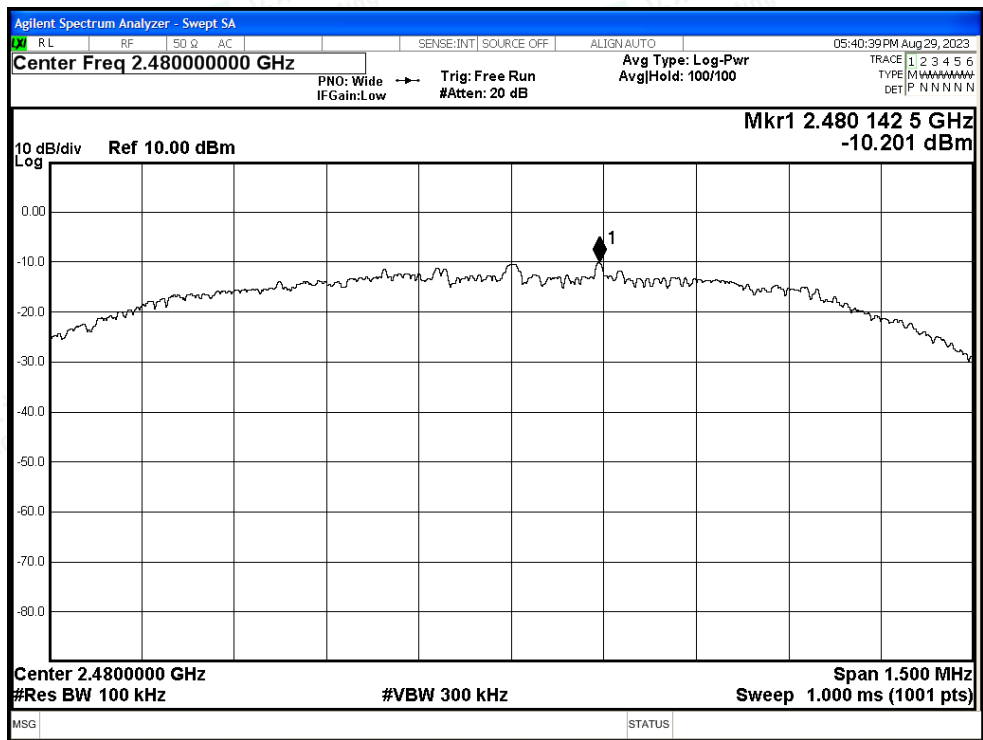


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

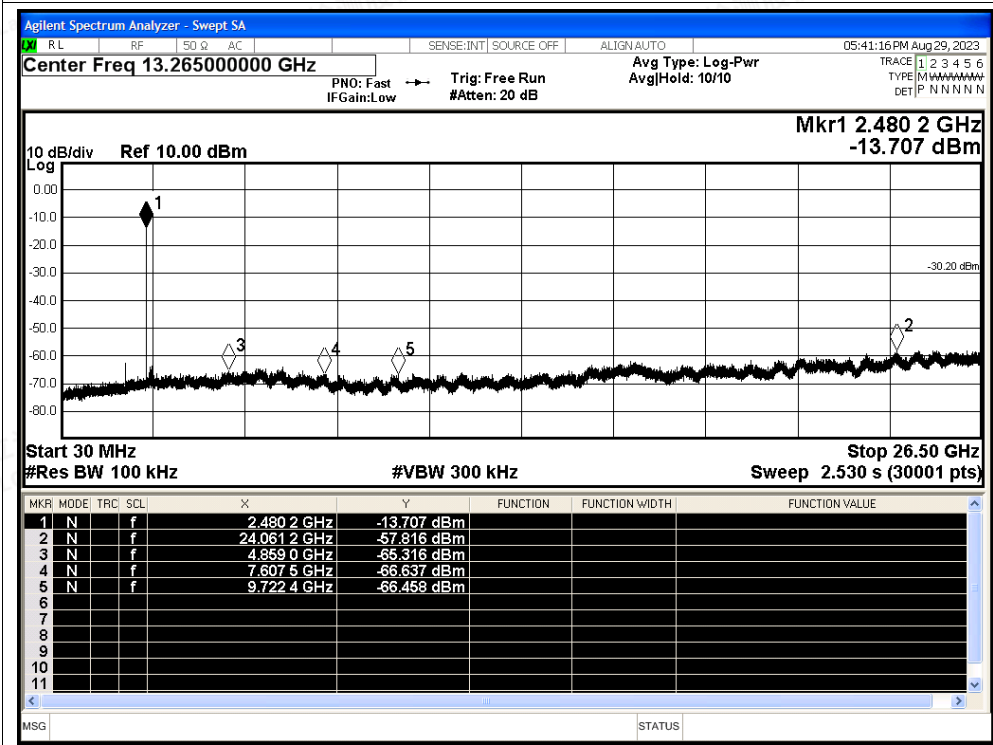




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

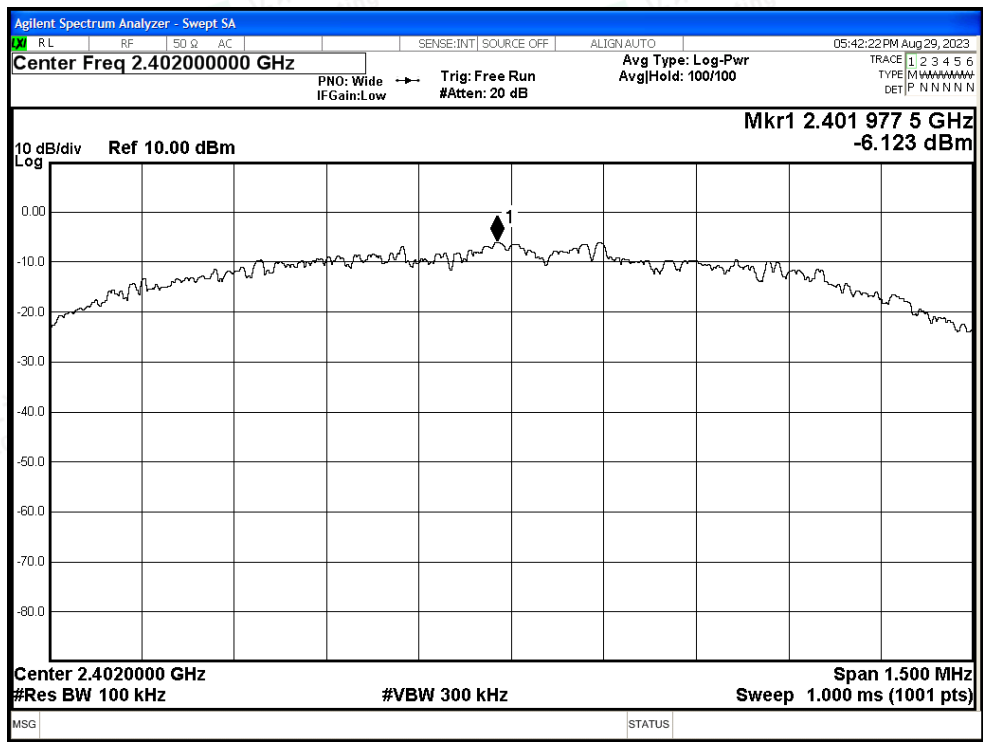


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

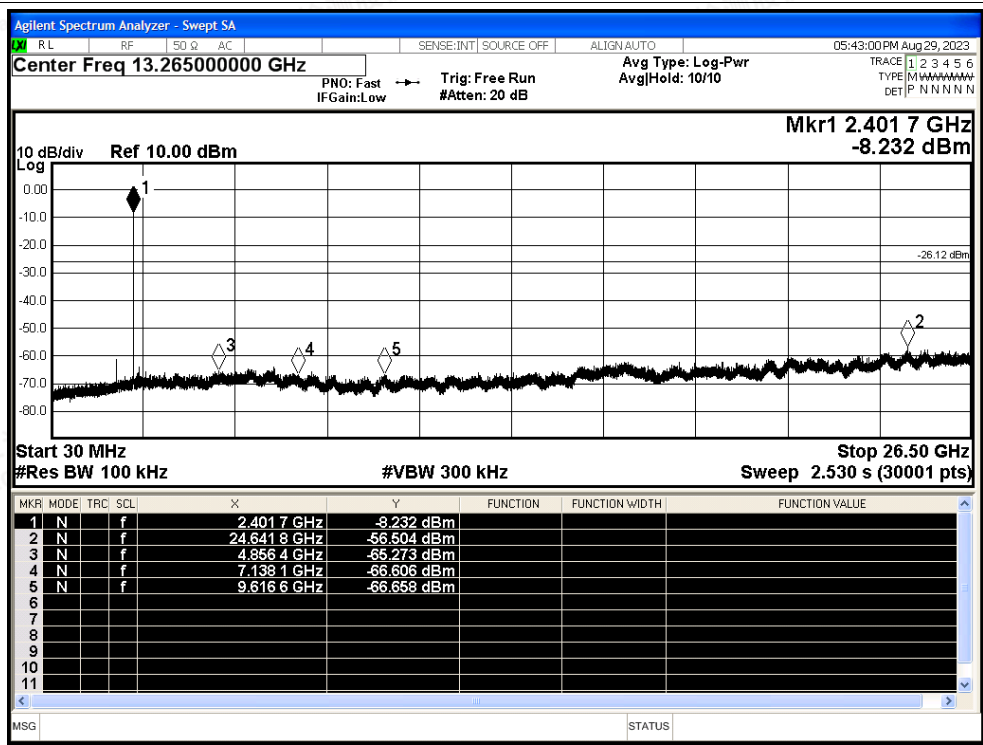




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

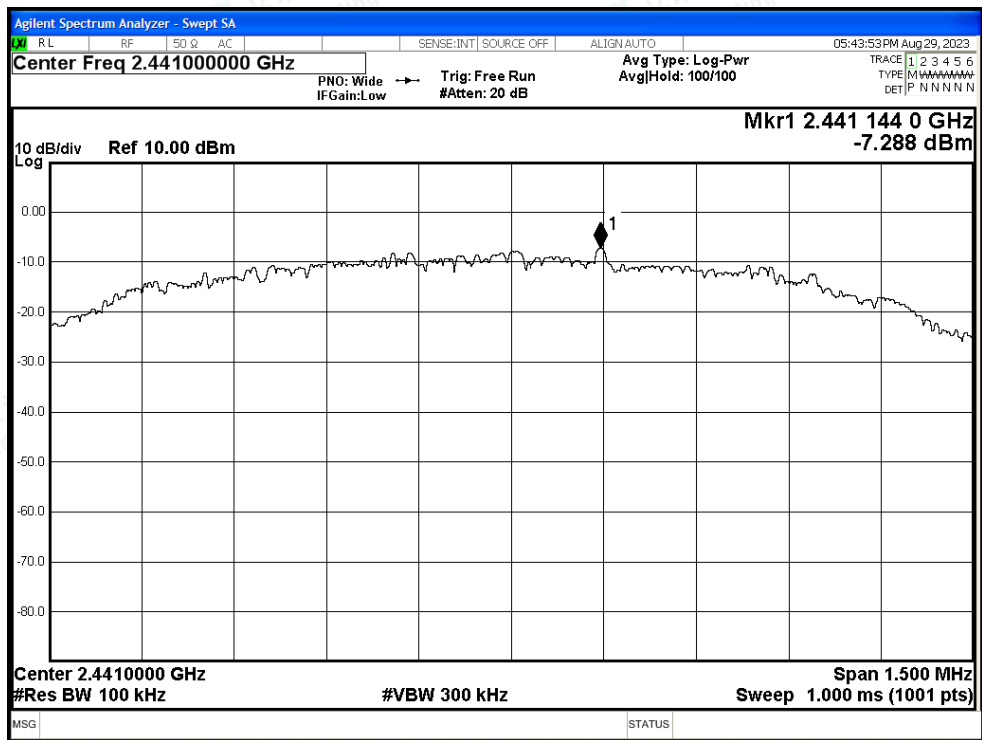


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

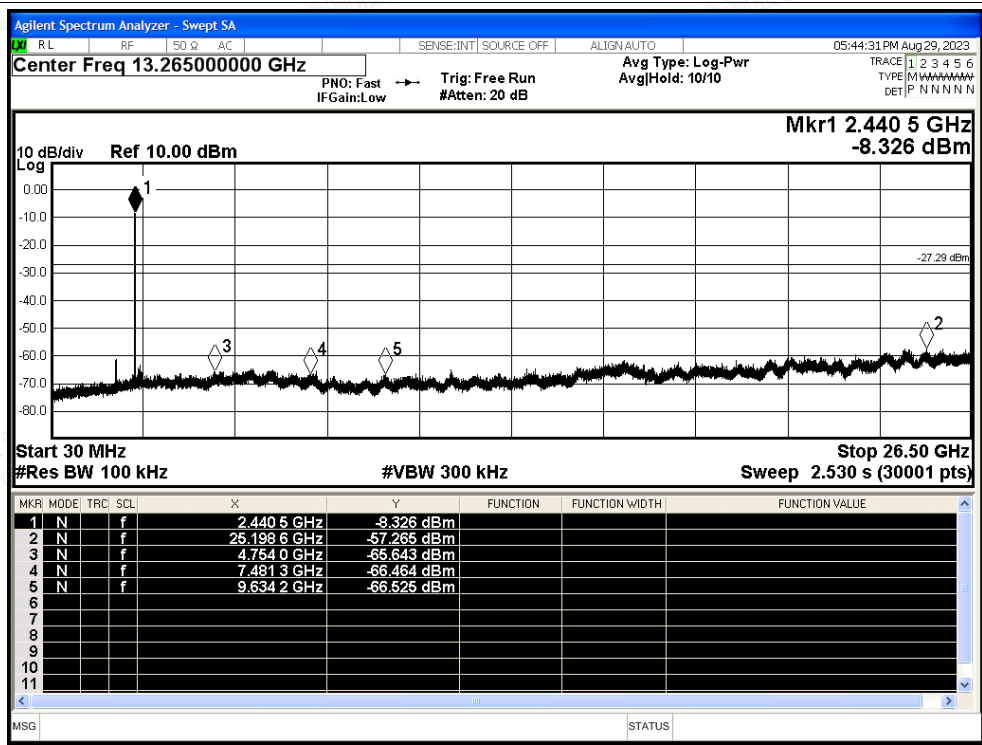




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

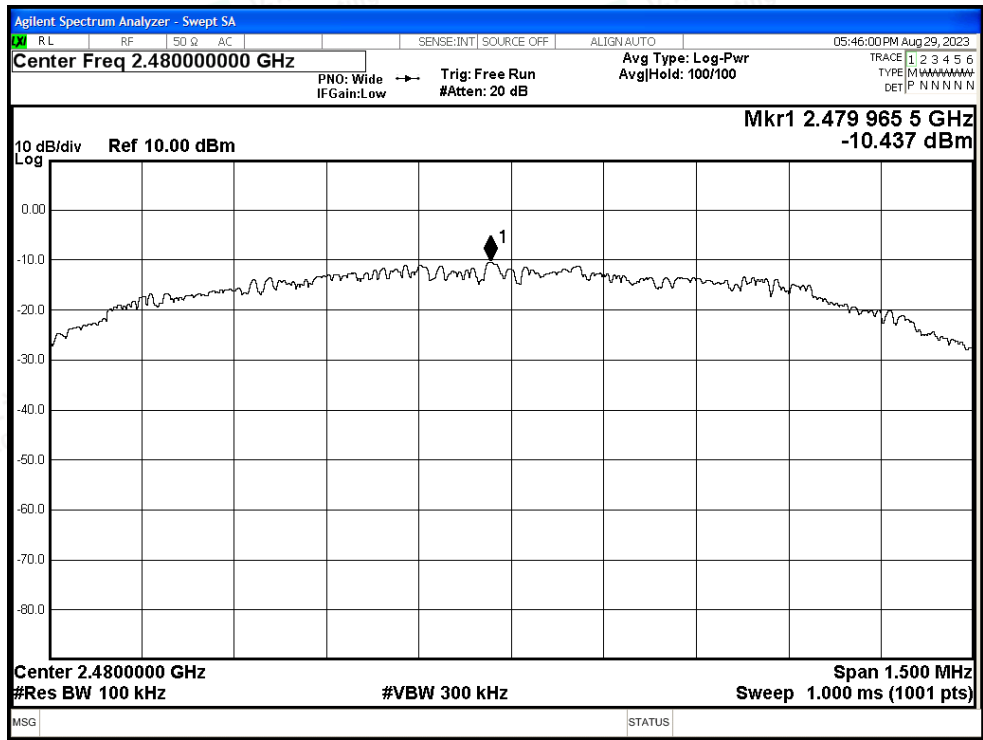


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

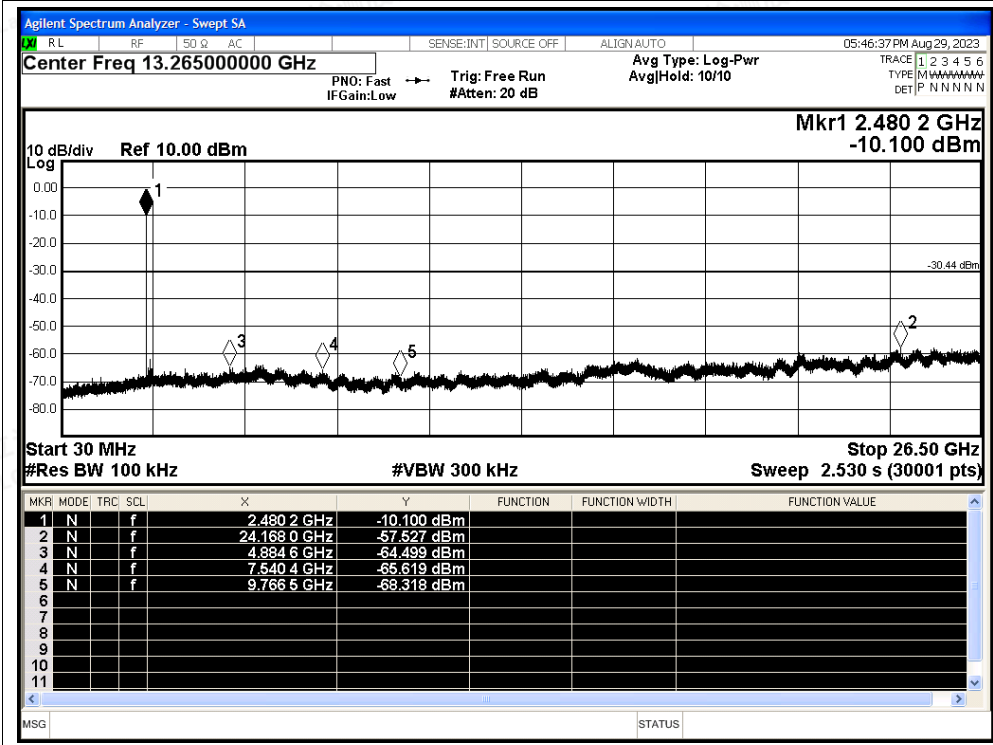




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





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	-52.15	2.71	45.79	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-62.03	2.71	35.91	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2380.56	-49	2.71	48.94	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2382	-61.44	2.71	36.50	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-52.83	2.71	45.11	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-61.66	2.71	36.28	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.95	2.71	47.99	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-61.37	2.71	36.57	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.76	-45.4	2.71	52.54	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.784	-61.16	2.71	36.78	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.93	2.71	46.01	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-61.46	2.71	36.48	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-52.74	2.71	45.20	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-62.05	2.71	35.89	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2316.624	-49.17	2.71	48.77	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.048	-61.48	2.71	36.46	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-52.25	2.71	45.69	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-61.6	2.71	36.34	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-52.01	2.71	45.93	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-61.26	2.71	36.68	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.904	-45.17	2.71	52.77	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.656	-61.19	2.71	36.75	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-52.16	2.71	45.78	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-61.57	2.71	36.37	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.54	2.71	46.40	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-62	2.71	35.94	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2359.344	-49.03	2.71	48.91	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2386.992	-61.49	2.71	36.45	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.08	2.71	47.86	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-61.62	2.71	36.32	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-52.11	2.71	45.83	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-61.14	2.71	36.80	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.76	-44.85	2.71	53.09	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.928	-61.13	2.71	36.81	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-51.09	2.71	46.85	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-61.54	2.71	36.40	Average	54	Pass

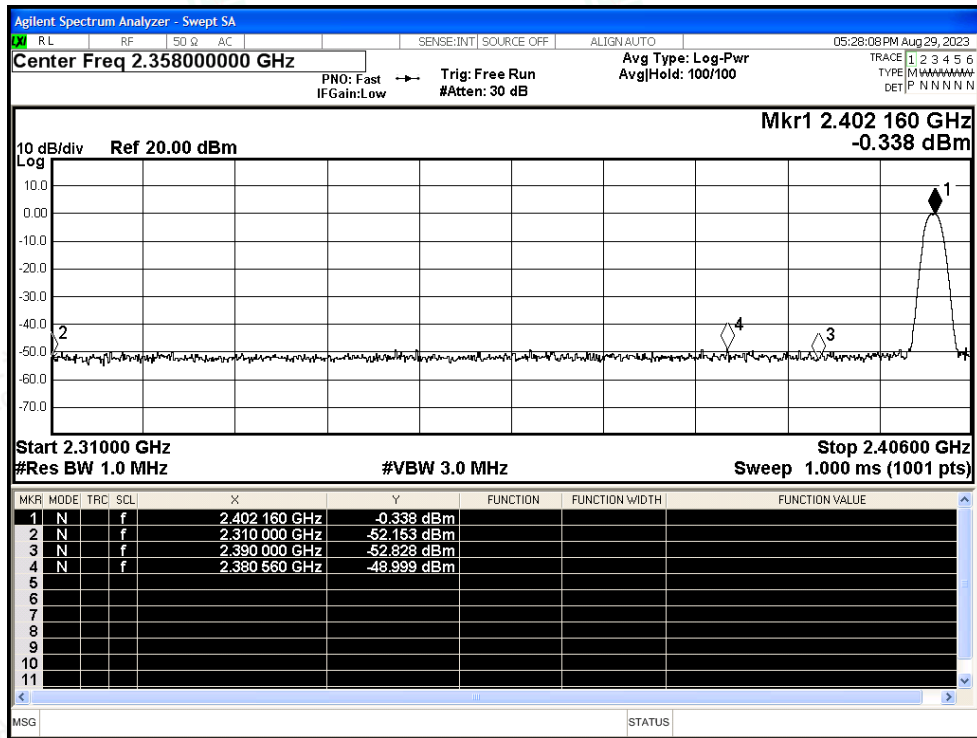


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 Scan code to check authenticity

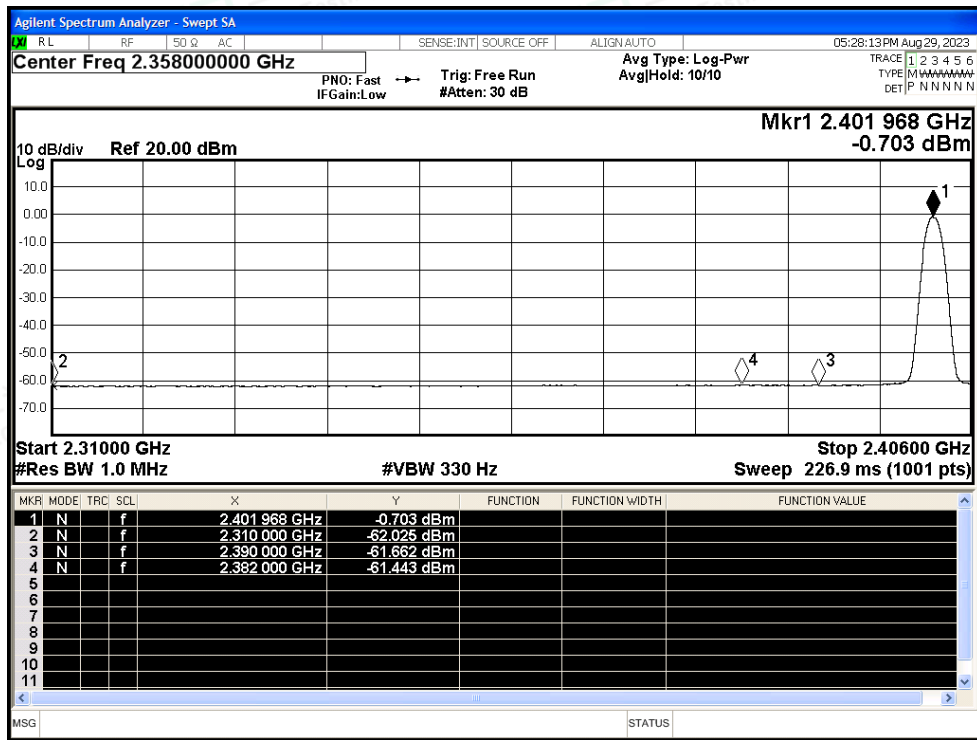


Test Graphs

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

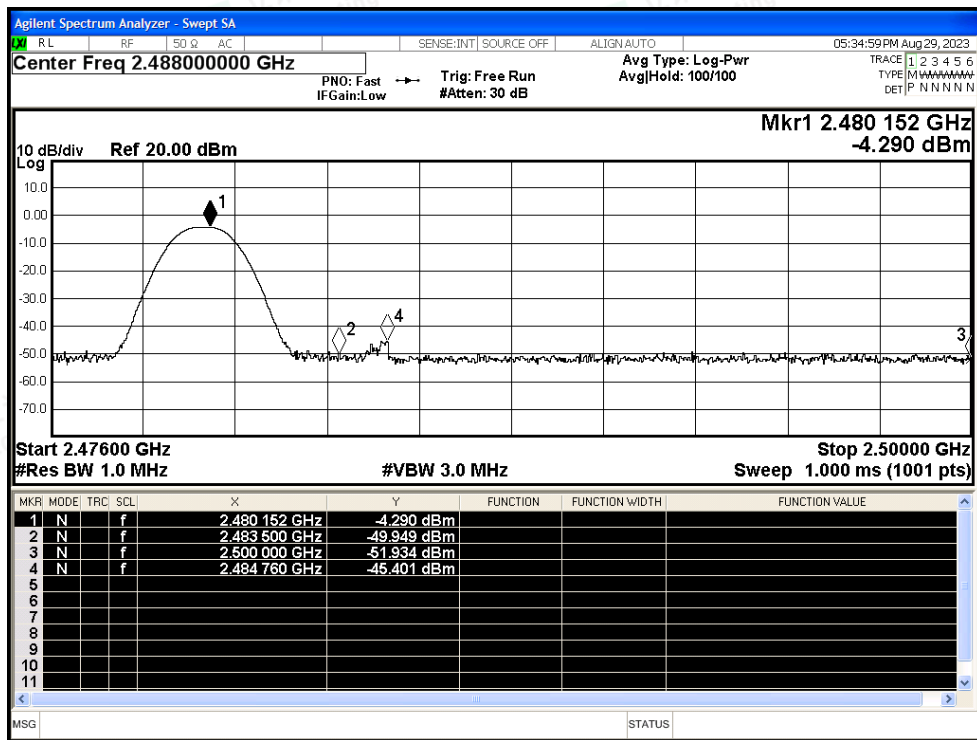


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

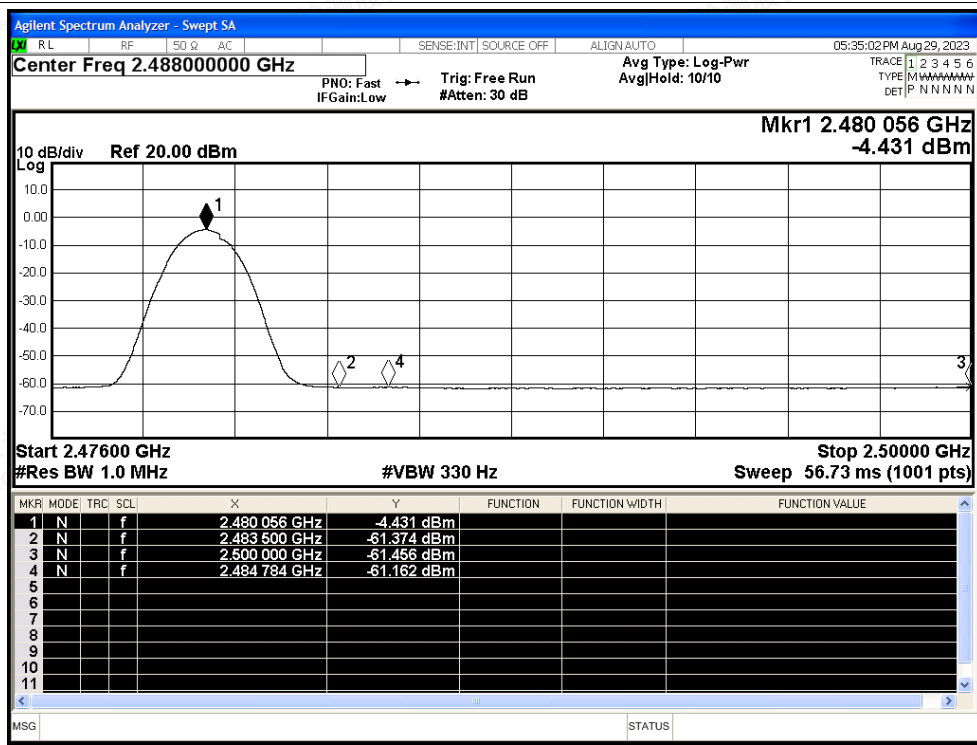




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

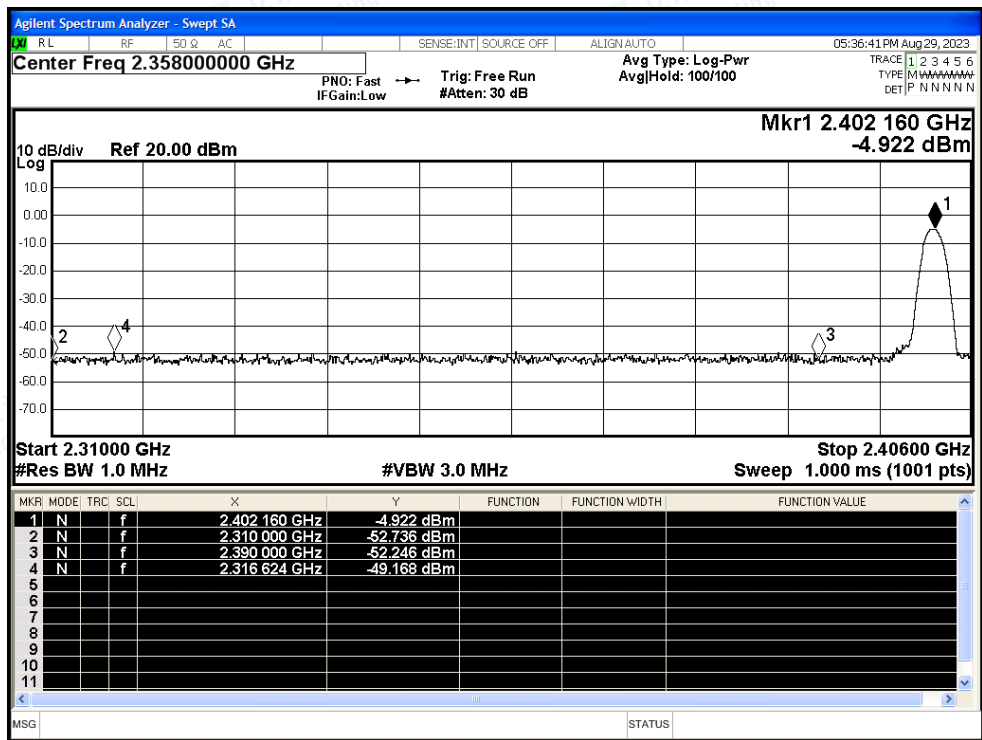


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

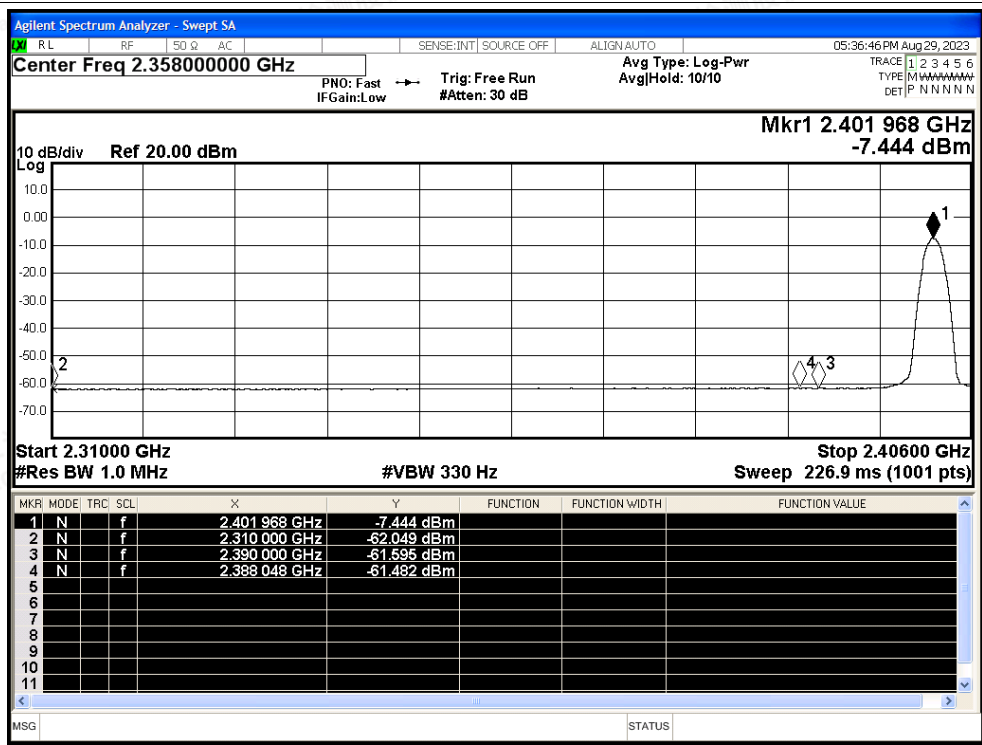




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

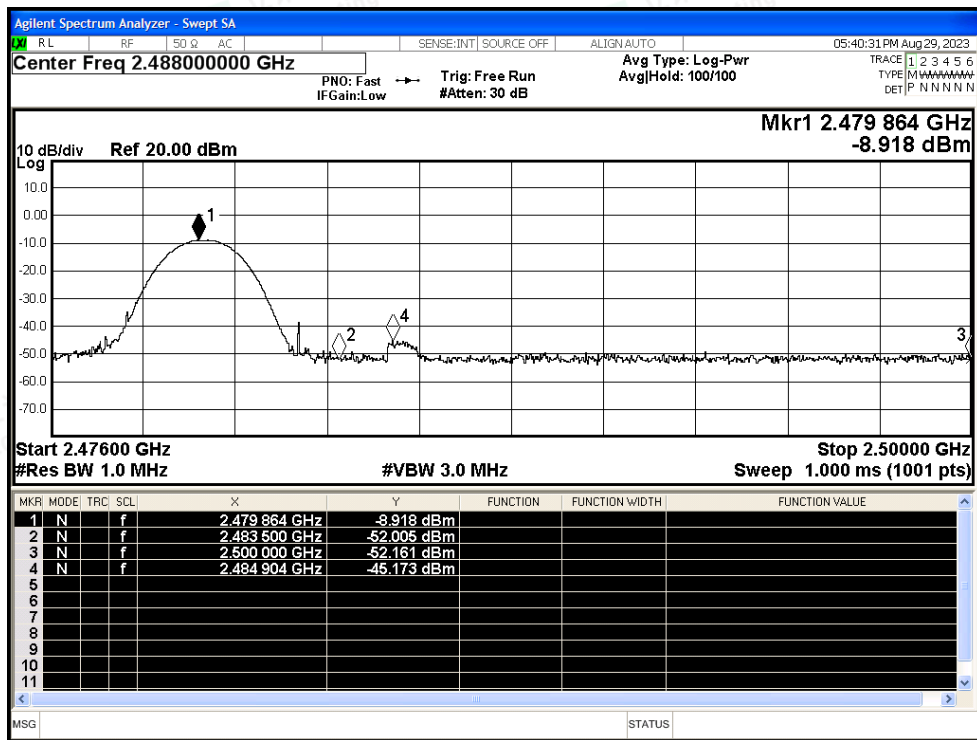


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

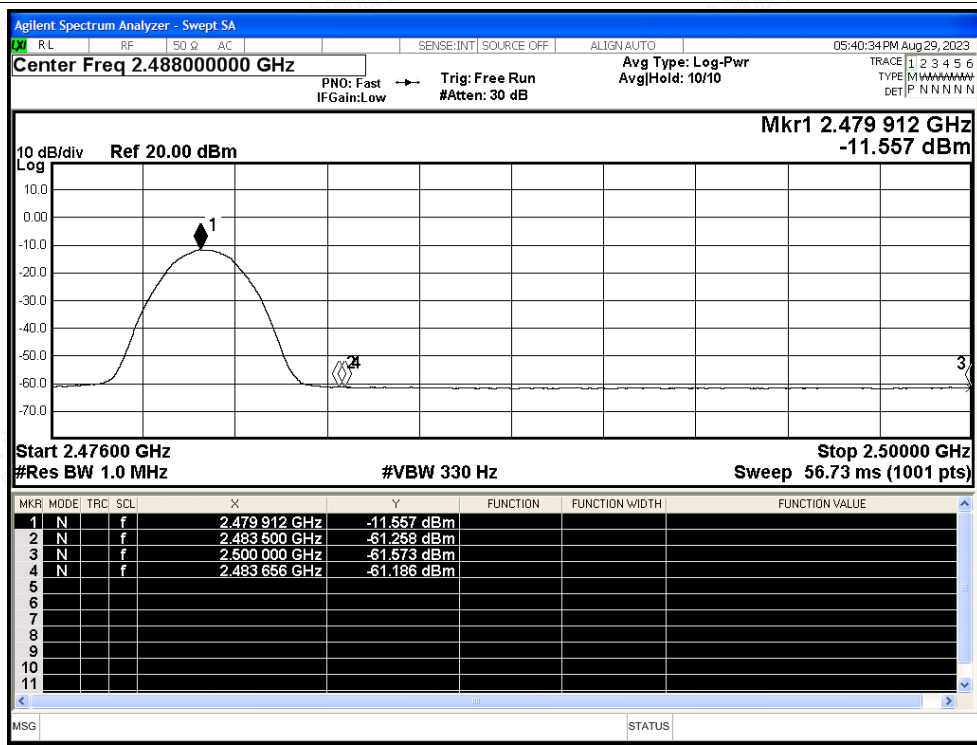




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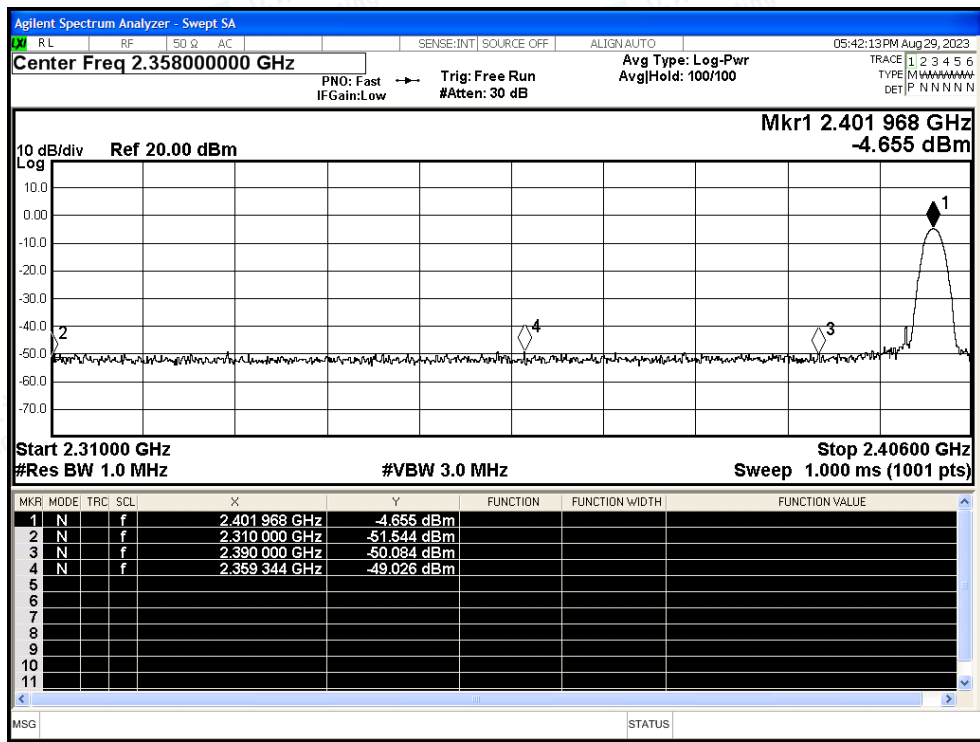


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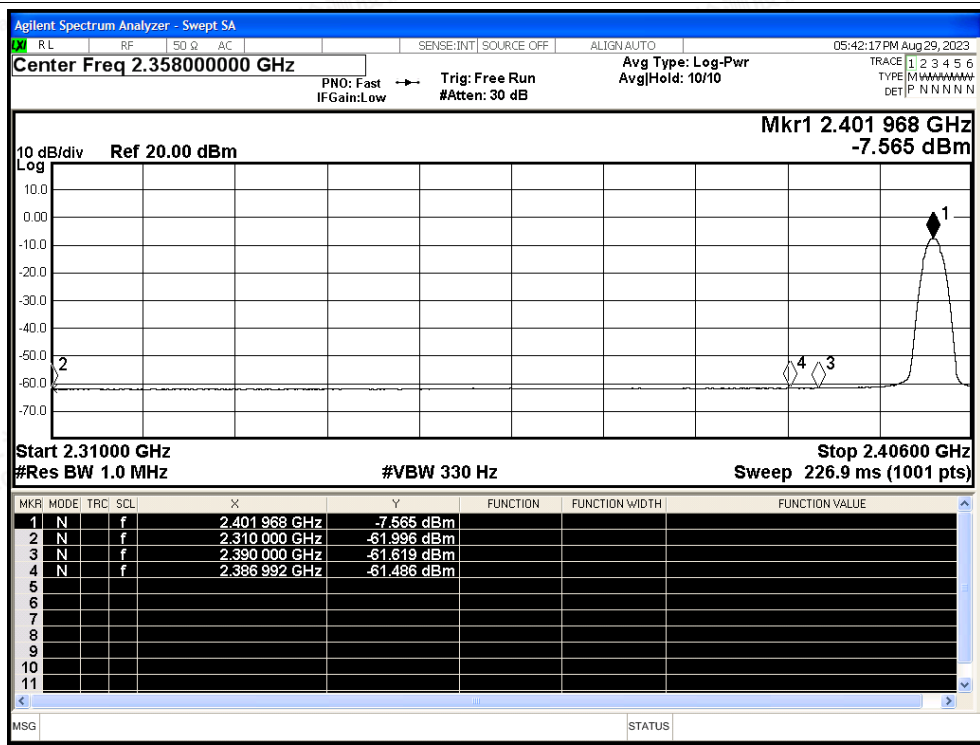




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

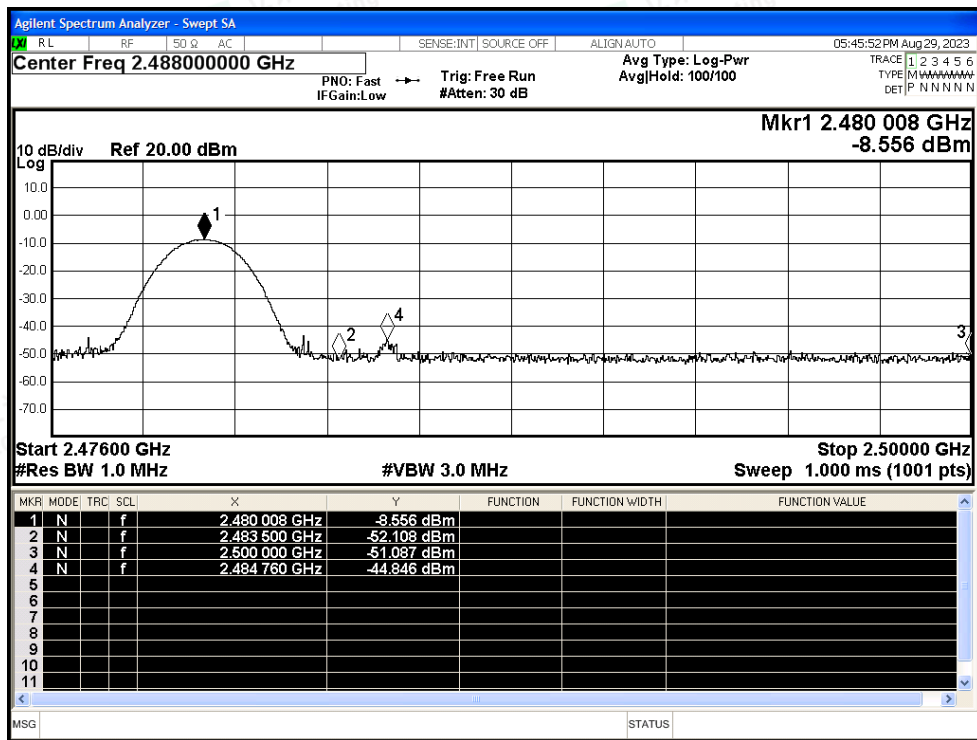


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

