



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: GS WATCH

Test Model: GS WATCH

Environmental Conditions

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



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A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.026	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.026	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.961	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.302	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.315	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.319	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.272	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.297	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.289	N/A	Pass

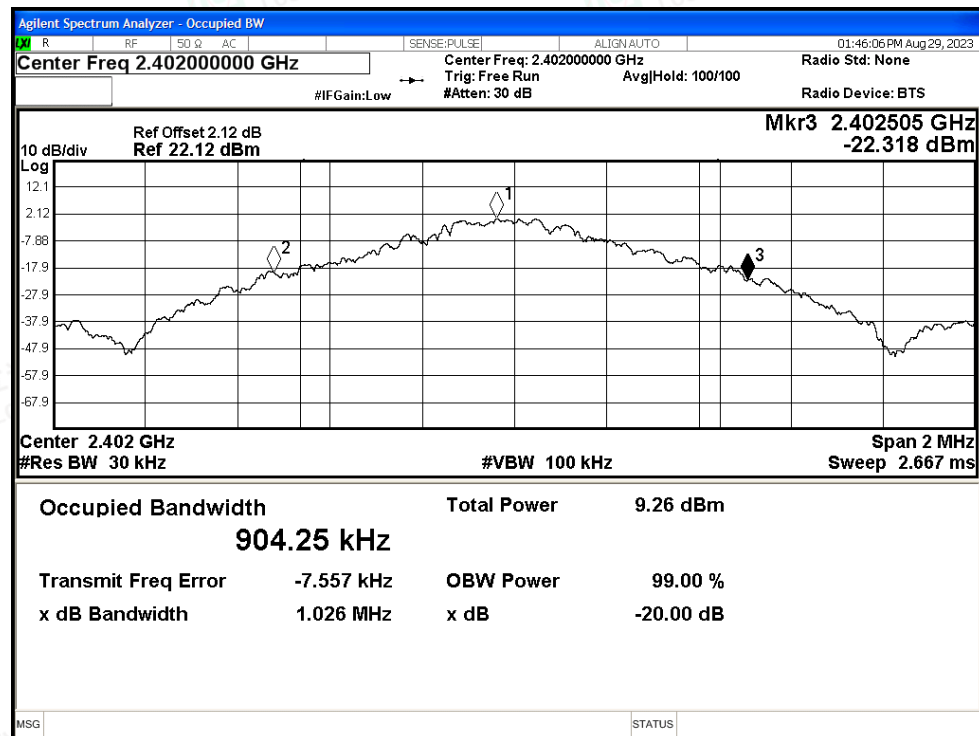


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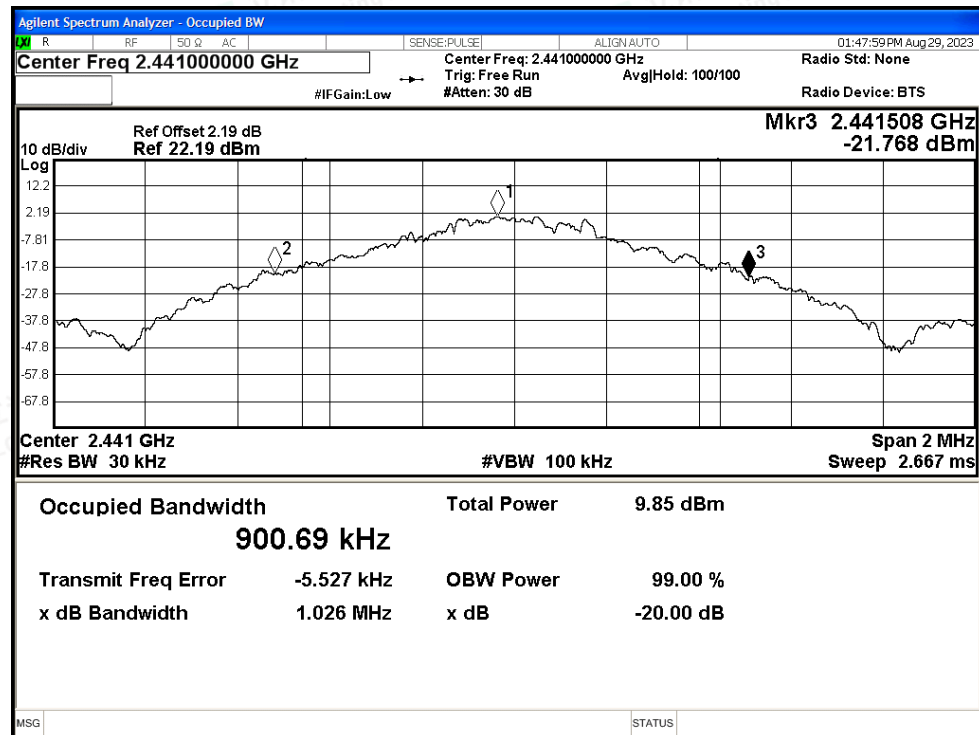


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

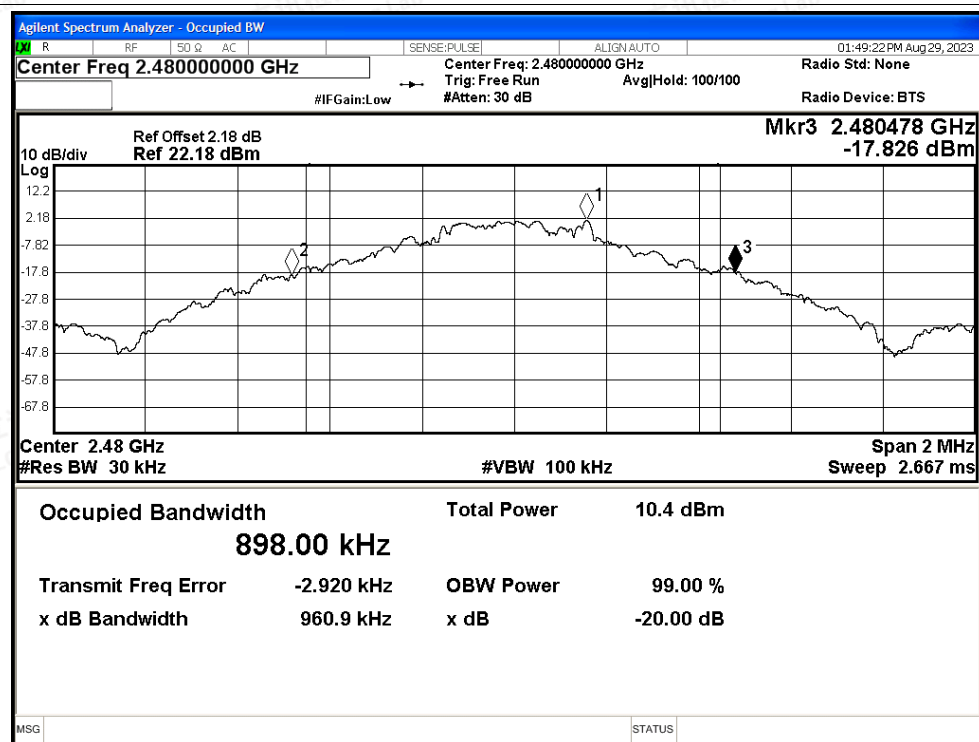


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

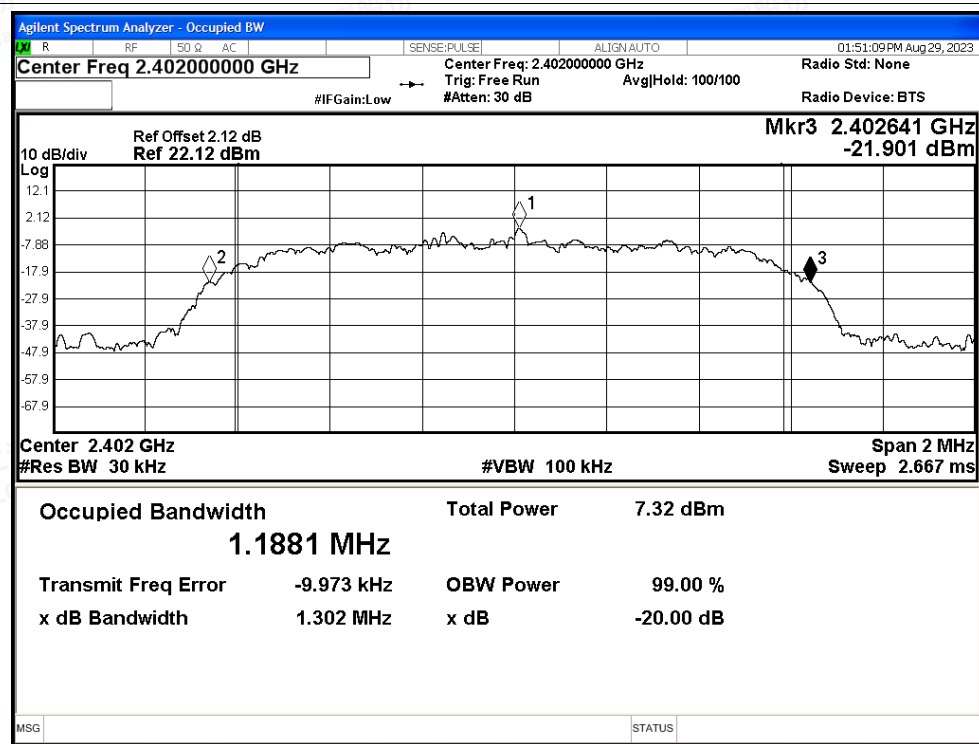




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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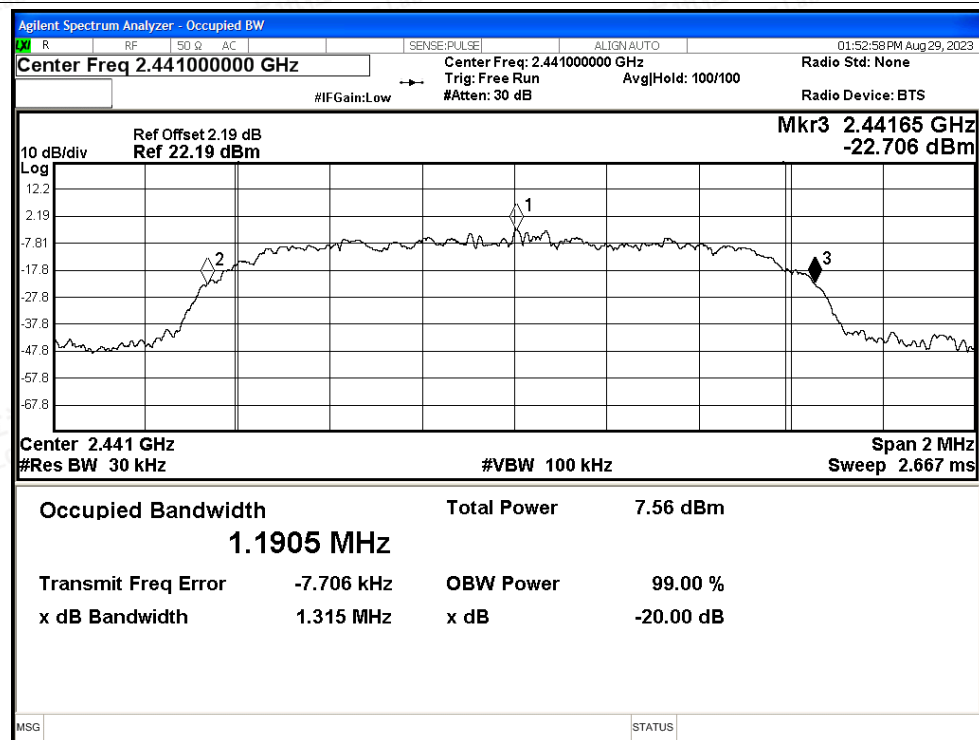
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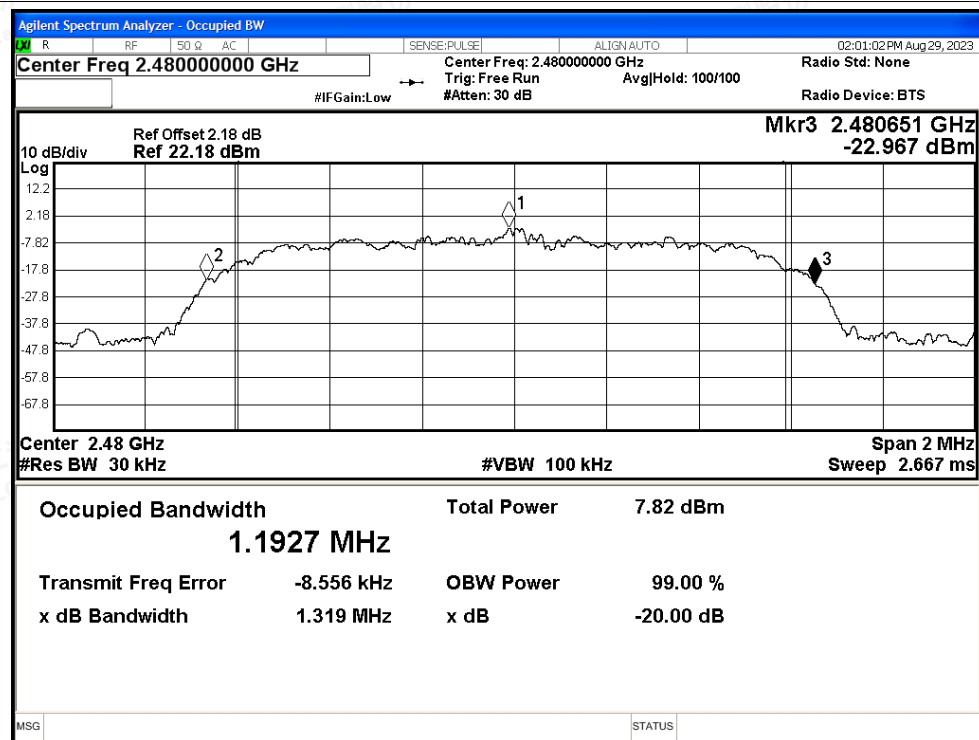
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

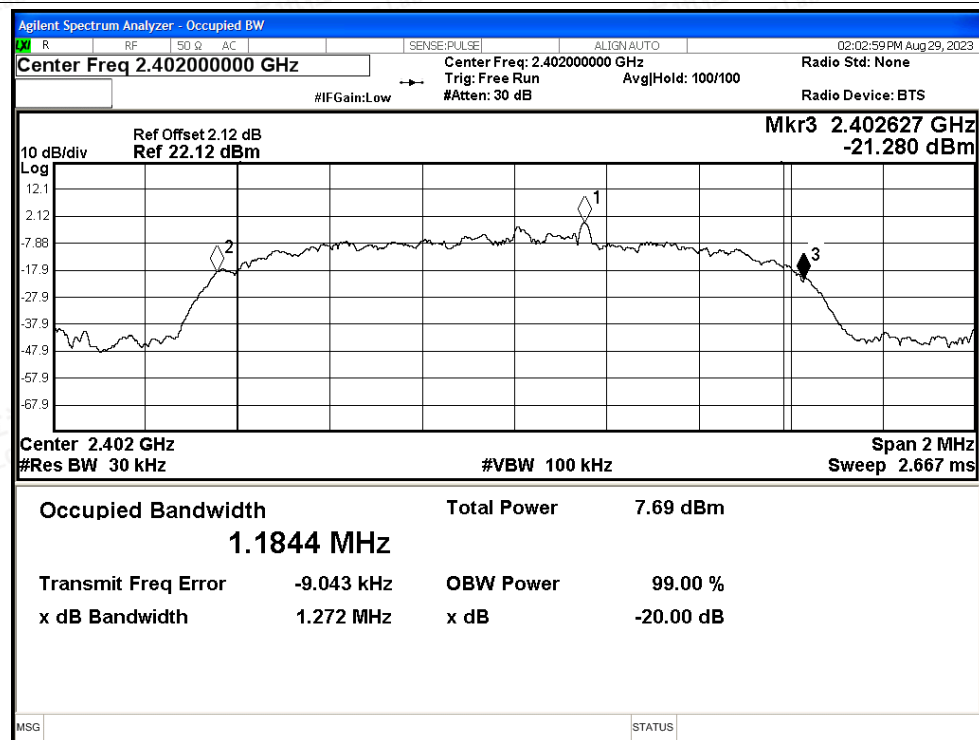


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

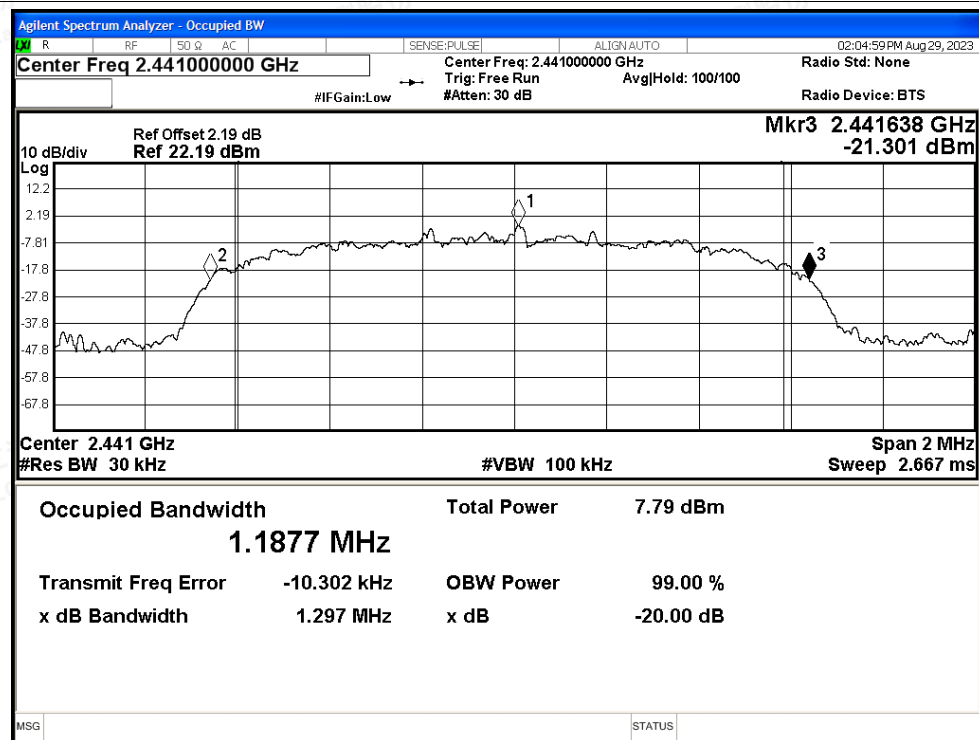


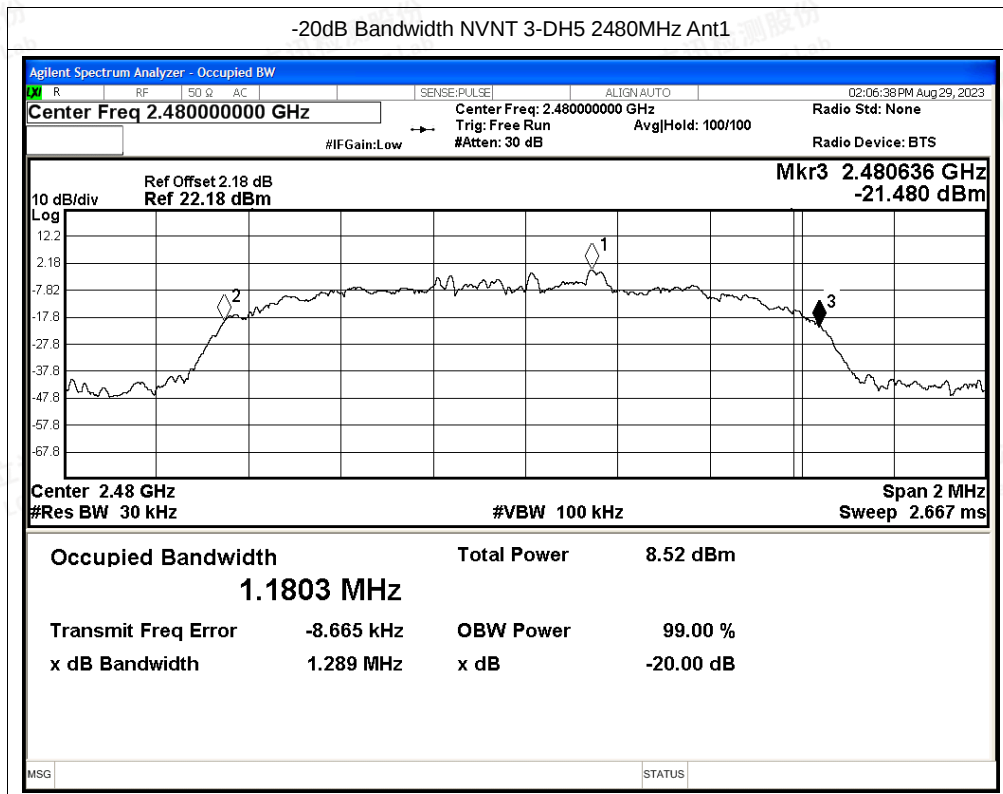


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Conducted Output Power

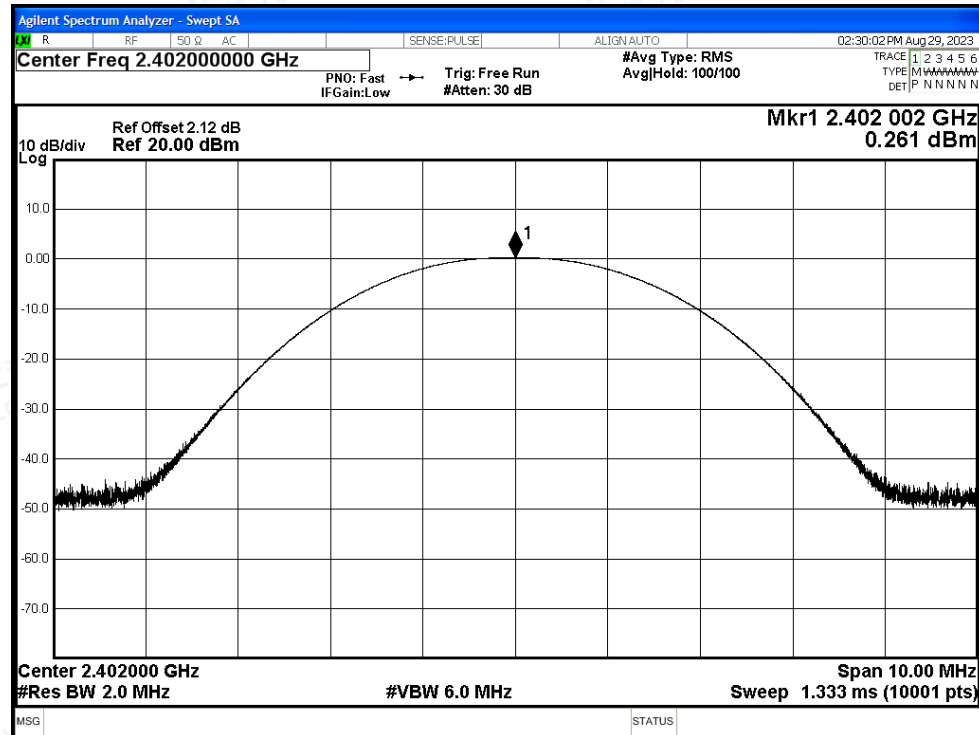
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.26	21	Pass
NVNT	1-DH5	2441	Ant1	0.48	21	Pass
NVNT	1-DH5	2480	Ant1	0.46	21	Pass
NVNT	2-DH5	2402	Ant1	0.08	21	Pass
NVNT	2-DH5	2441	Ant1	0.27	21	Pass
NVNT	2-DH5	2480	Ant1	0.28	21	Pass
NVNT	3-DH5	2402	Ant1	0.15	21	Pass
NVNT	3-DH5	2441	Ant1	0.36	21	Pass
NVNT	3-DH5	2480	Ant1	0.33	21	Pass



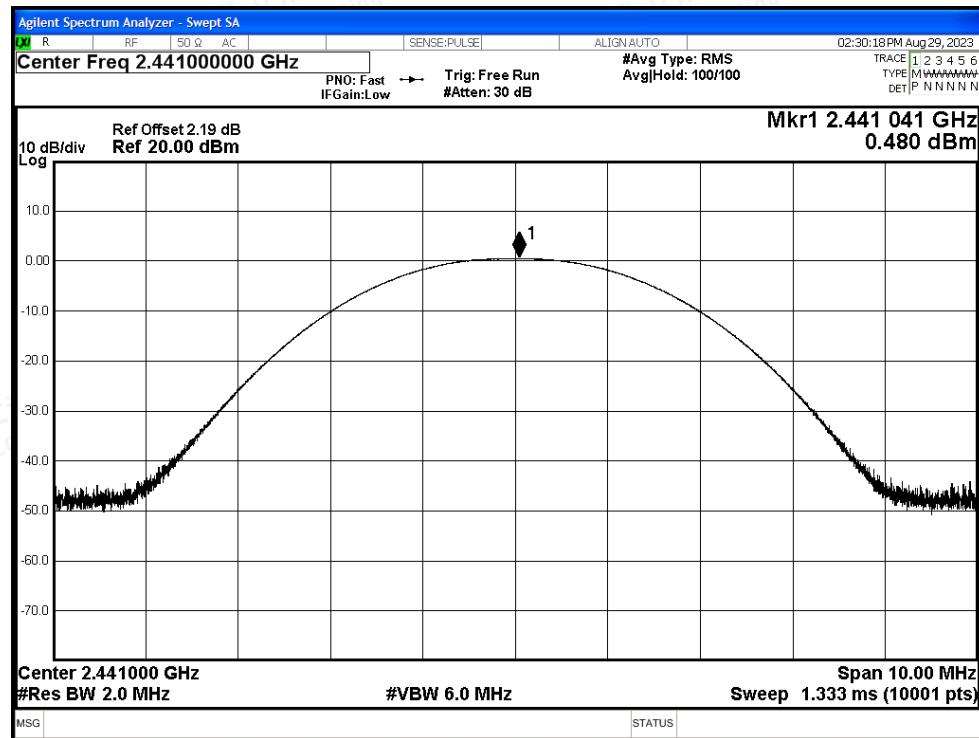


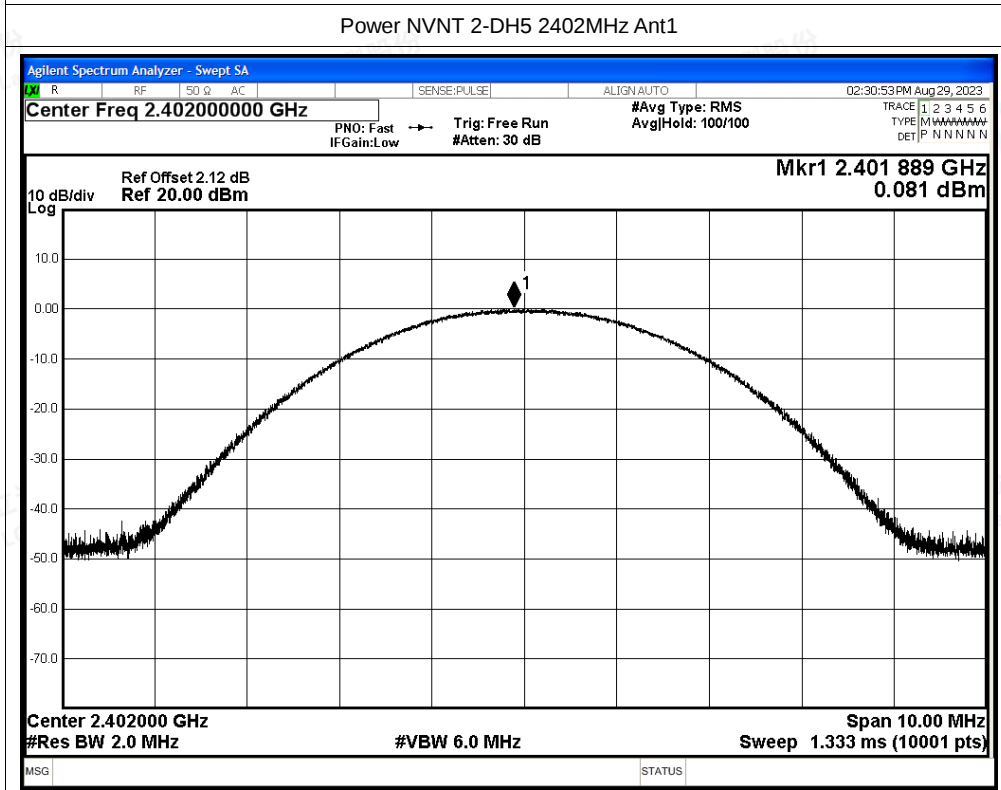
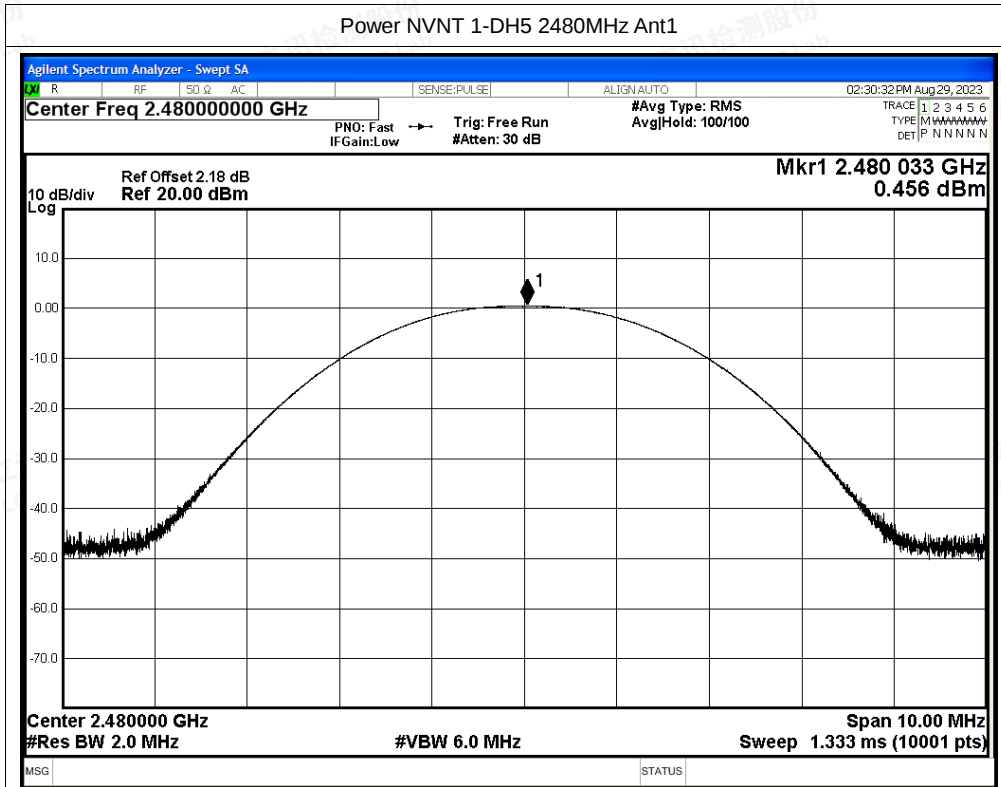
Test Graphs

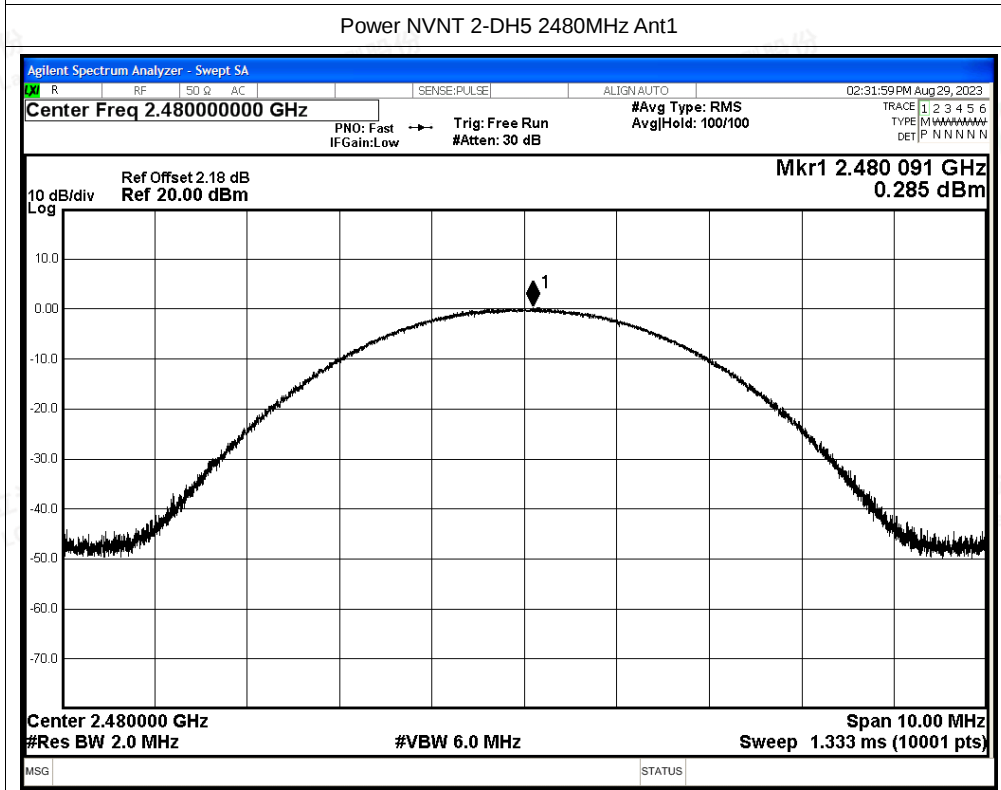
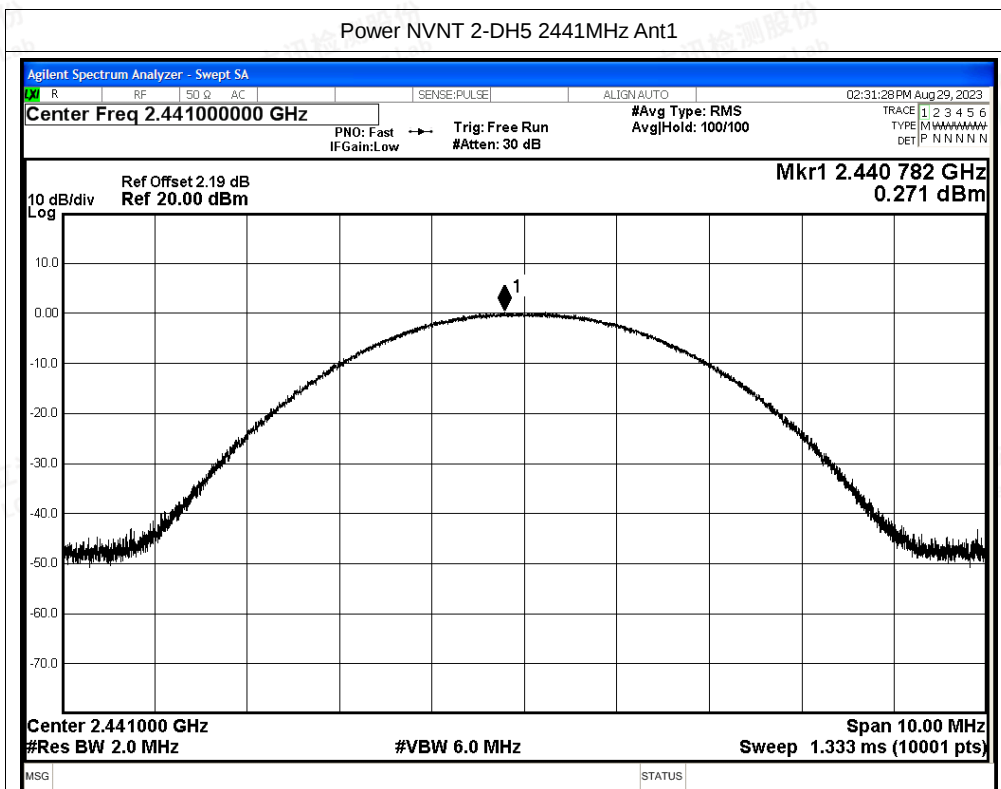
Power NVNT 1-DH5 2402MHz Ant1

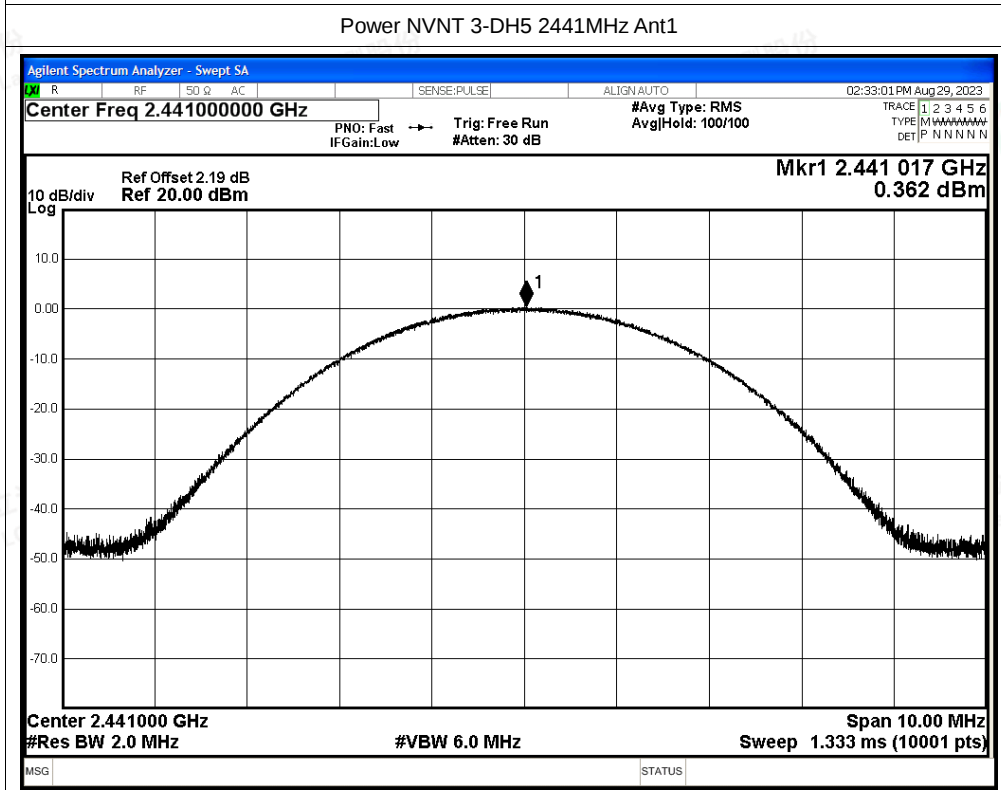
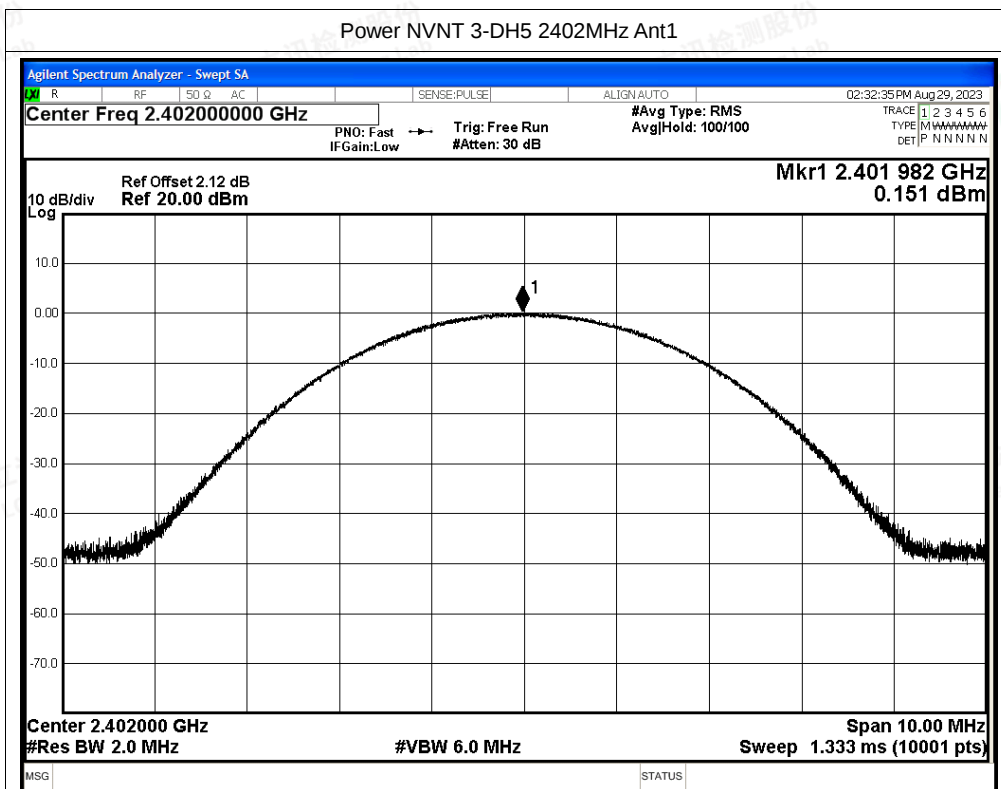


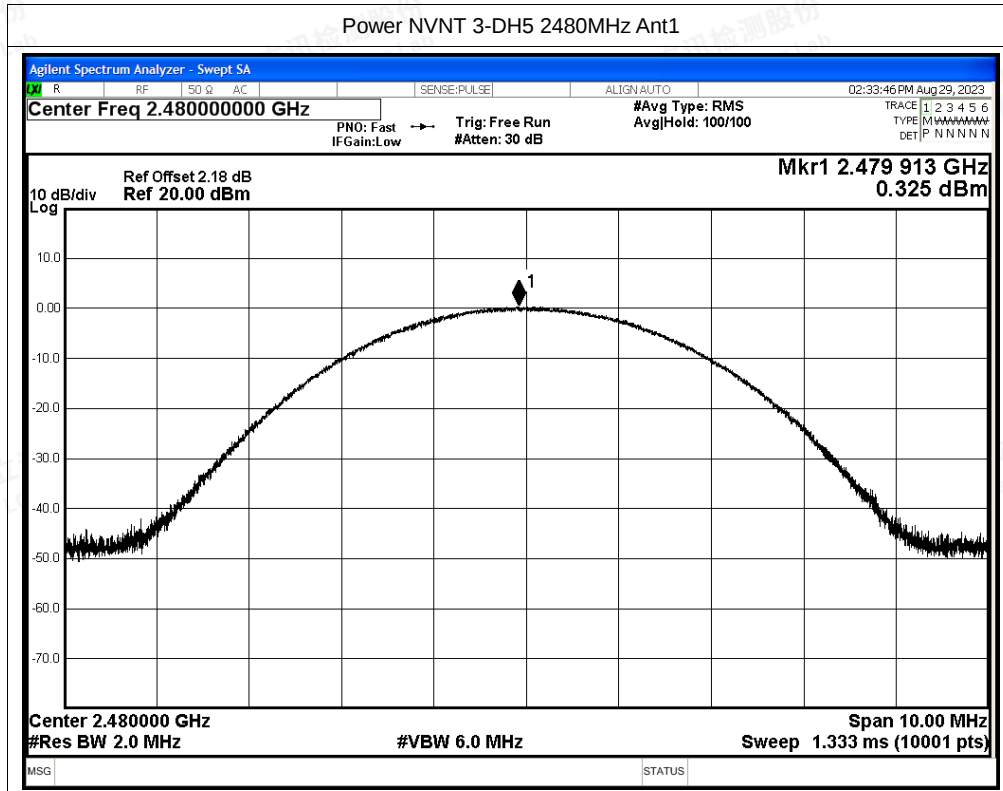
Power NVNT 1-DH5 2441MHz Ant1













A.3 Carrier Frequencies Separation

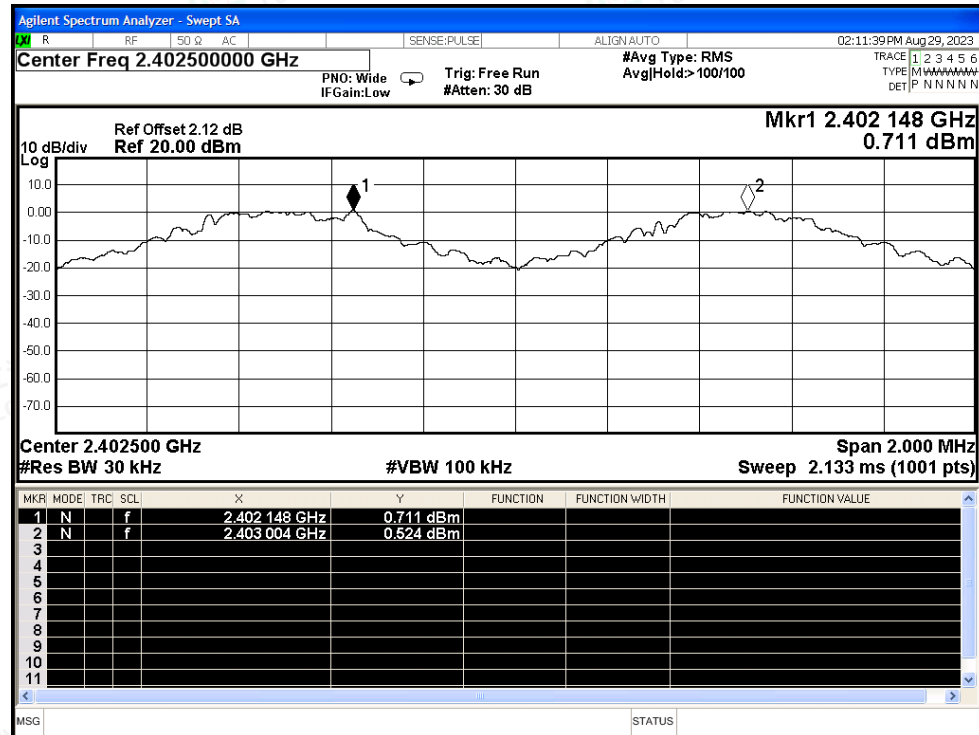
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.148	2403.004	0.856	0.684	Pass
NVNT	2-DH5	Ant1	2401.998	2403.158	1.16	0.879	Pass
NVNT	3-DH5	Ant1	2402.17	2403.154	0.984	0.865	Pass



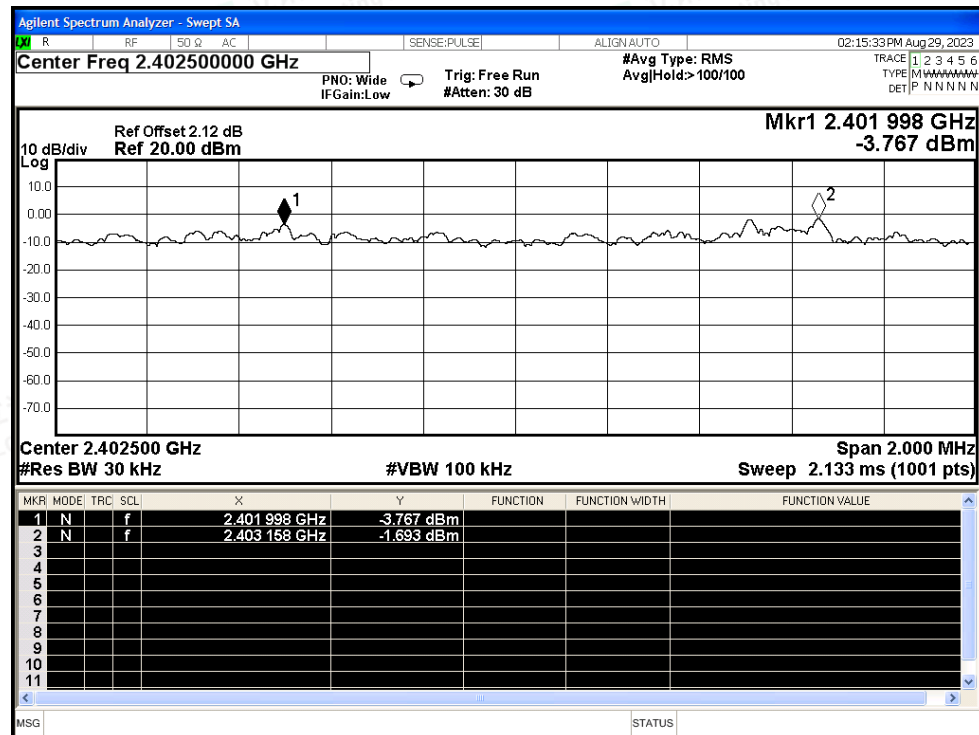


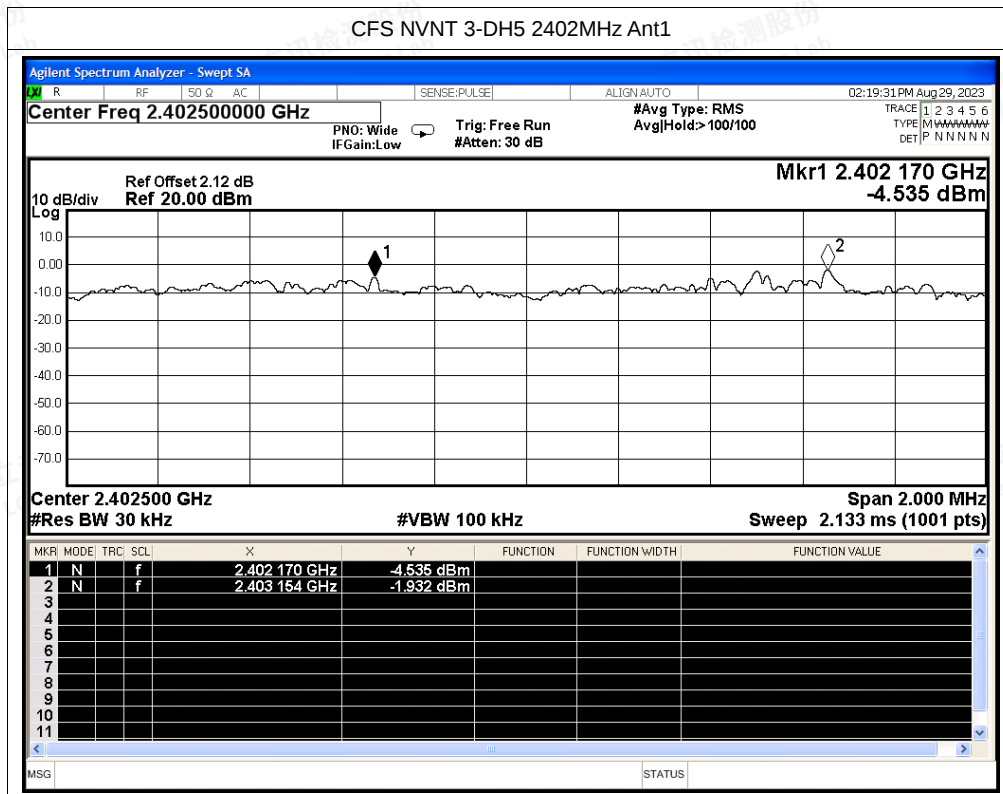
Test Graphs

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	285.318	99	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	328.32	114	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	300.248	104	31600	400	Pass

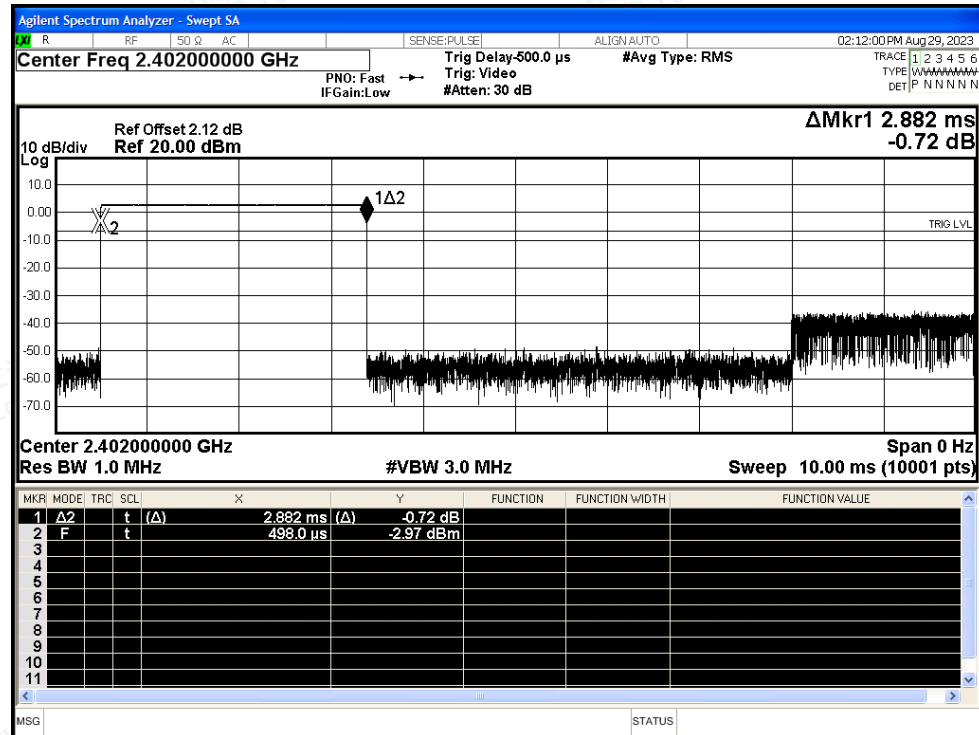


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518000, China
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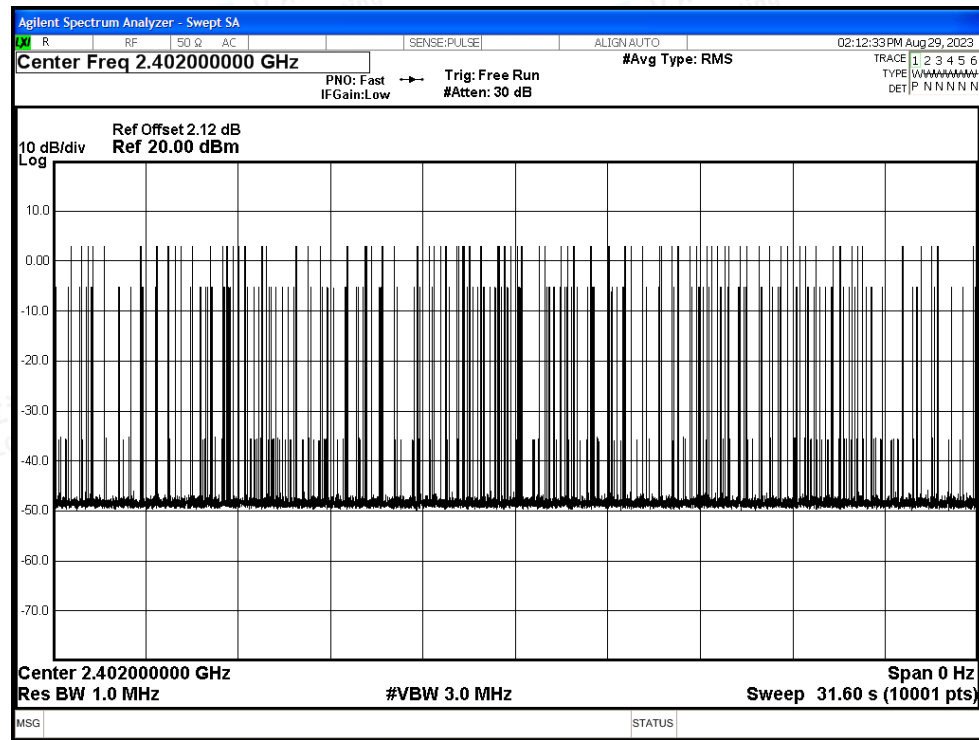


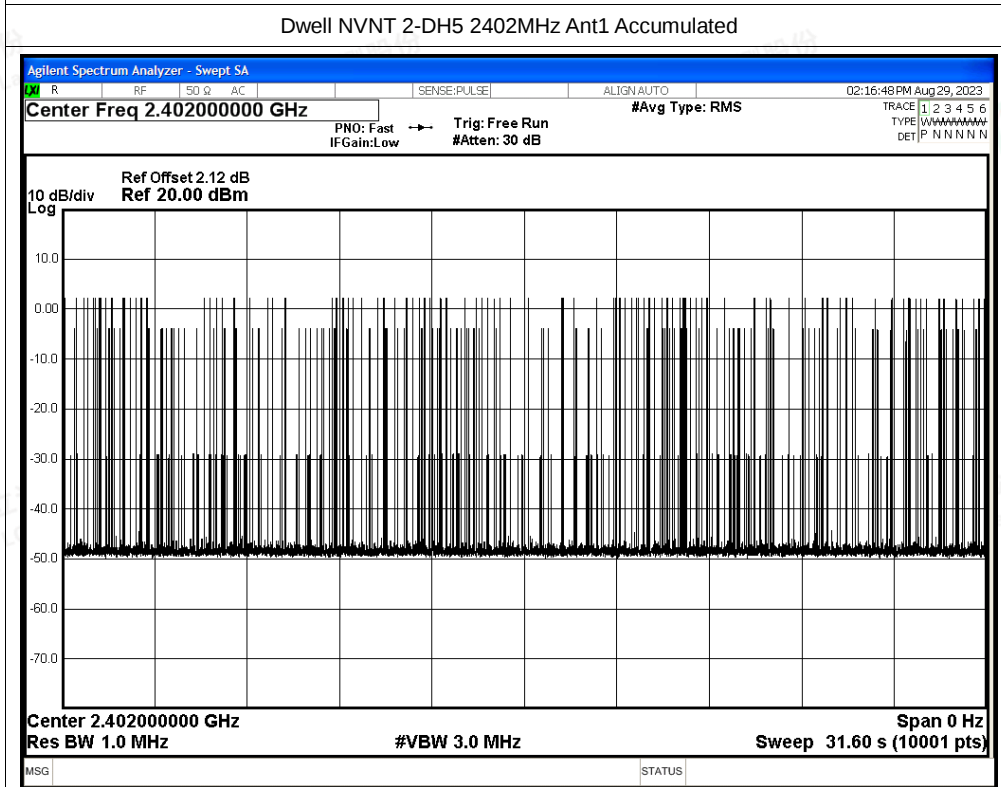
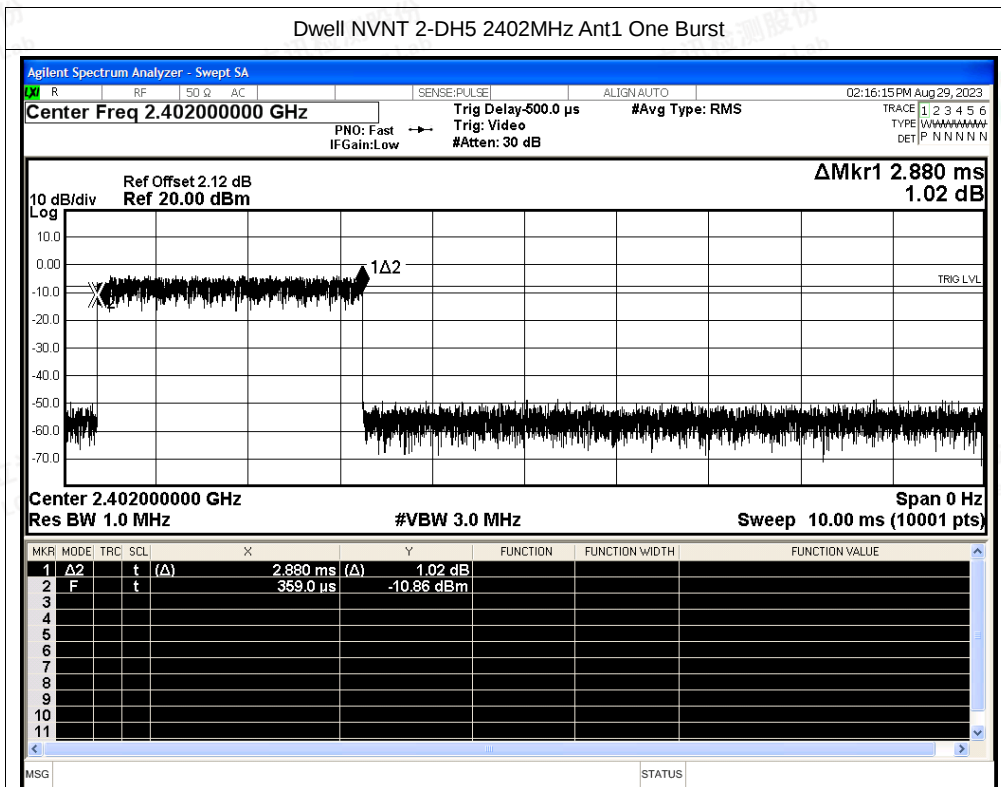
Test Graphs

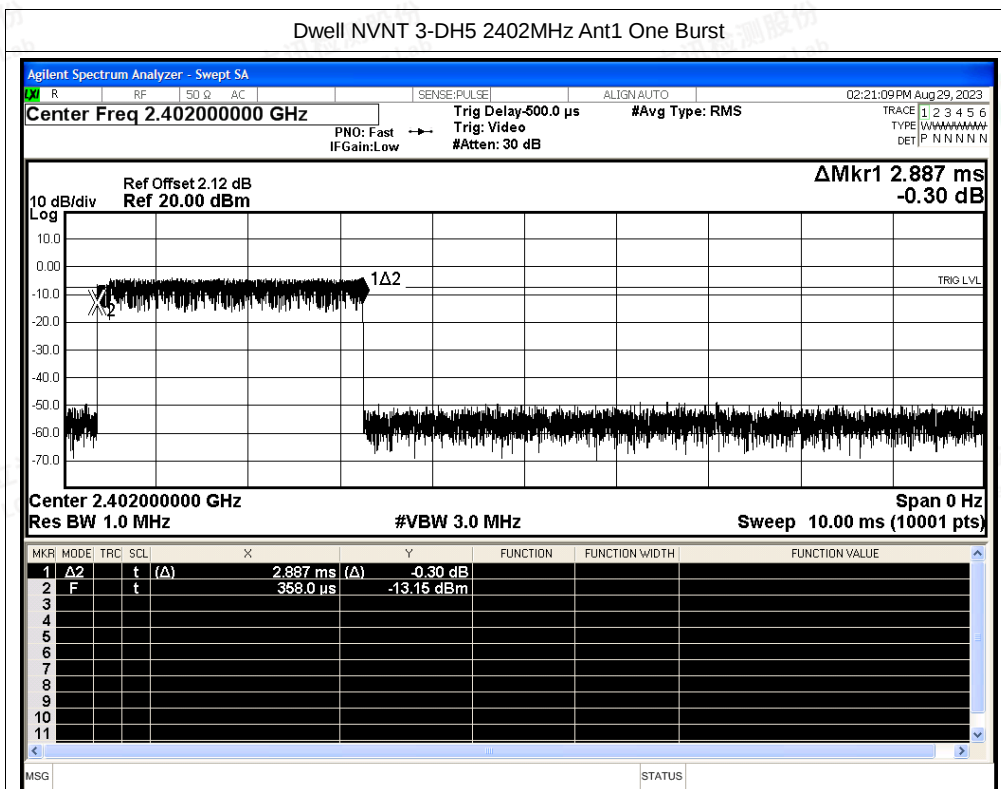
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



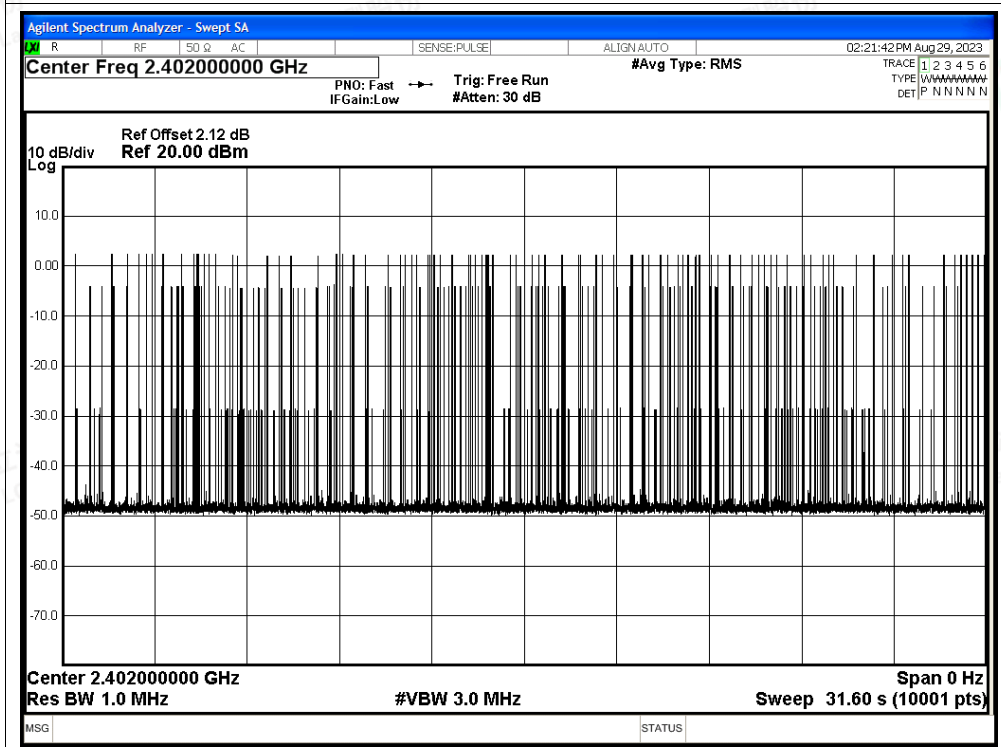
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated







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

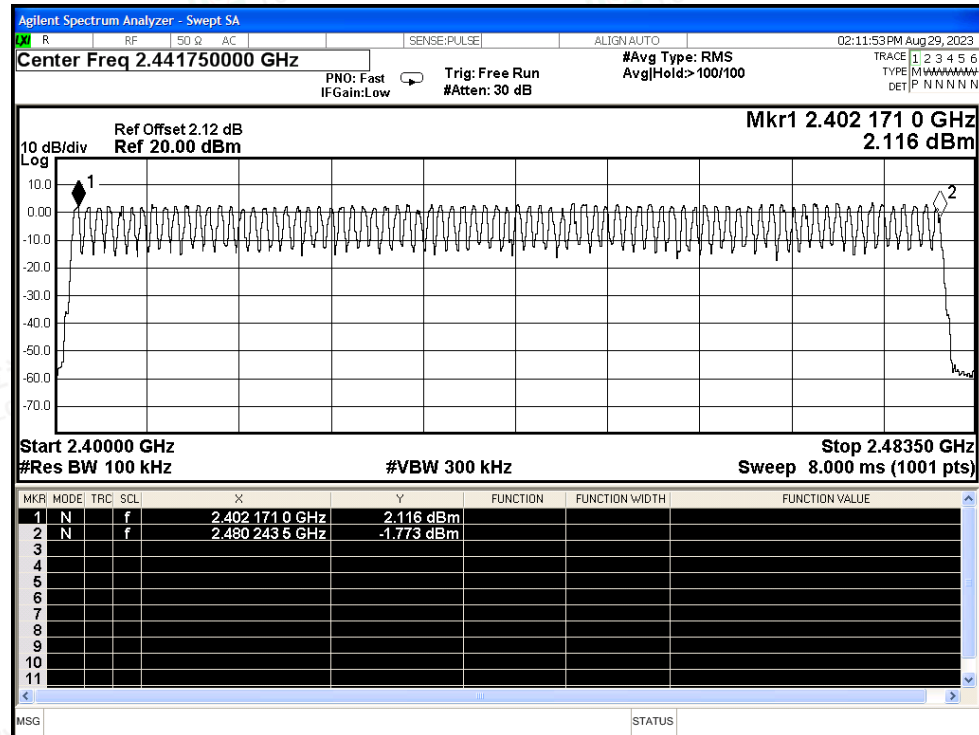


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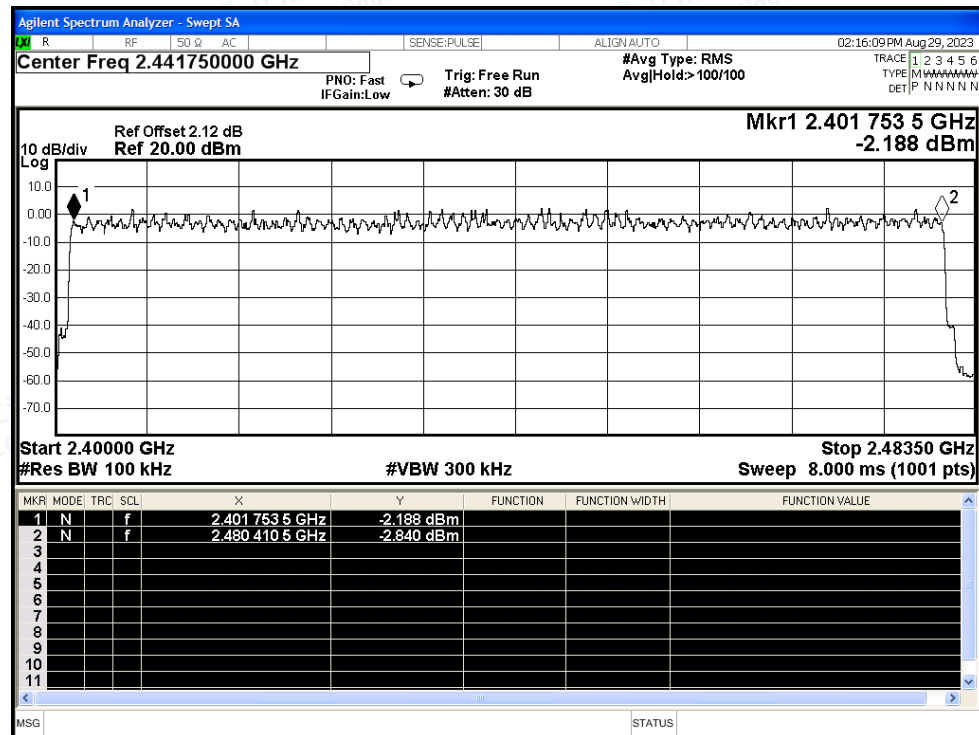


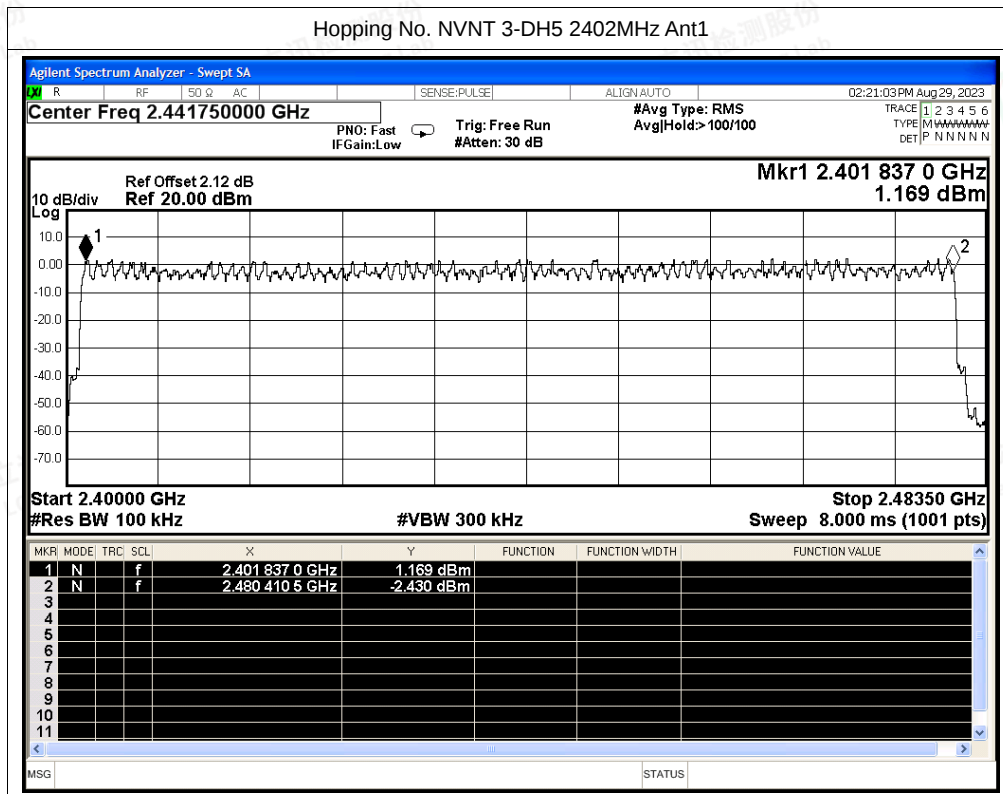
Test Graphs

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	-58.81	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-60.05	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-56.23	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-60.26	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.87	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-57.04	-20	Pass

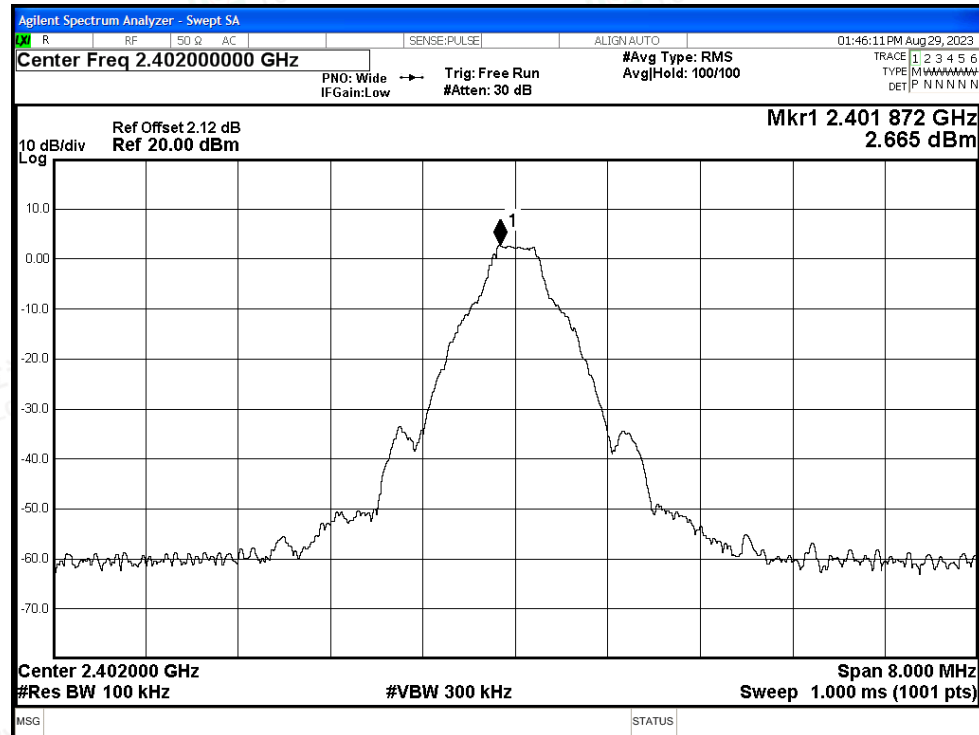


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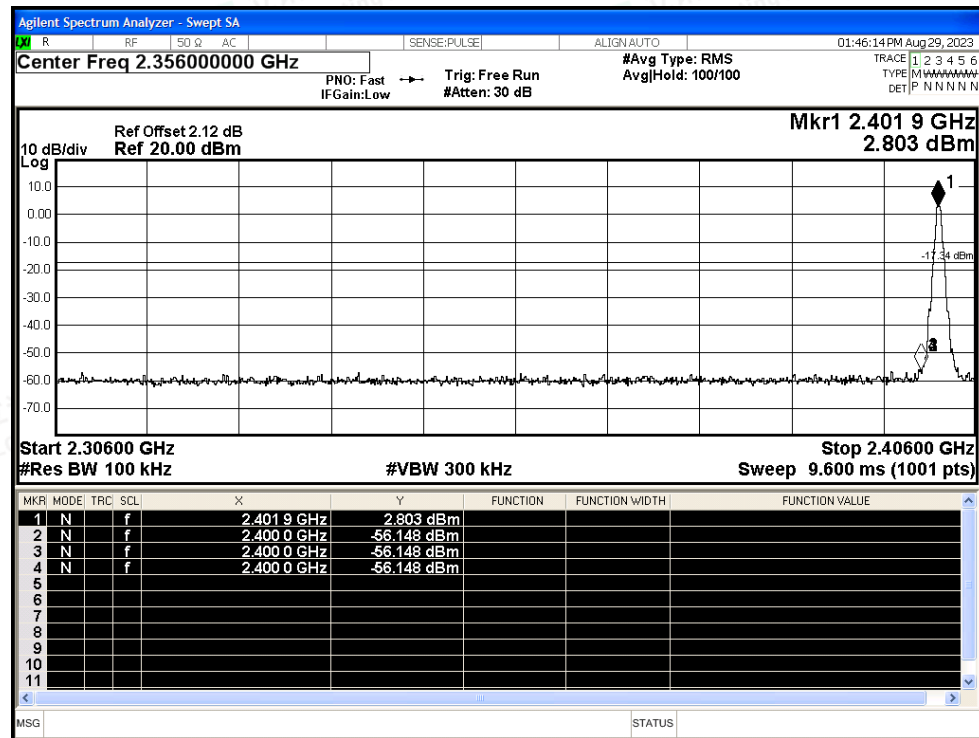


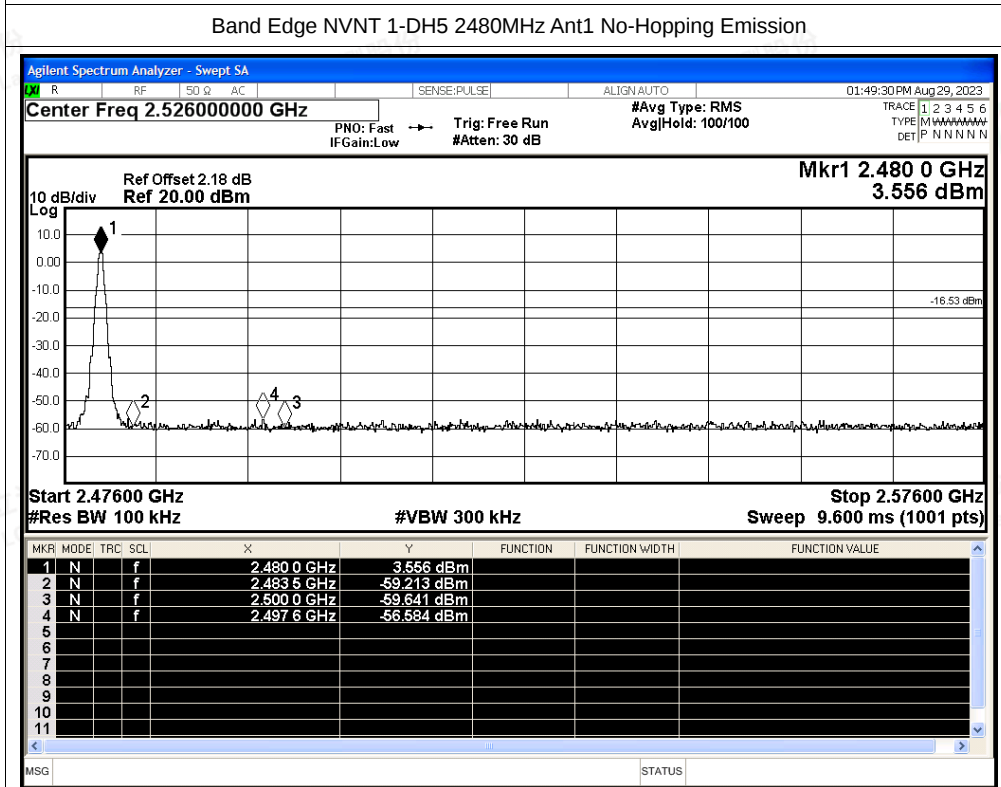
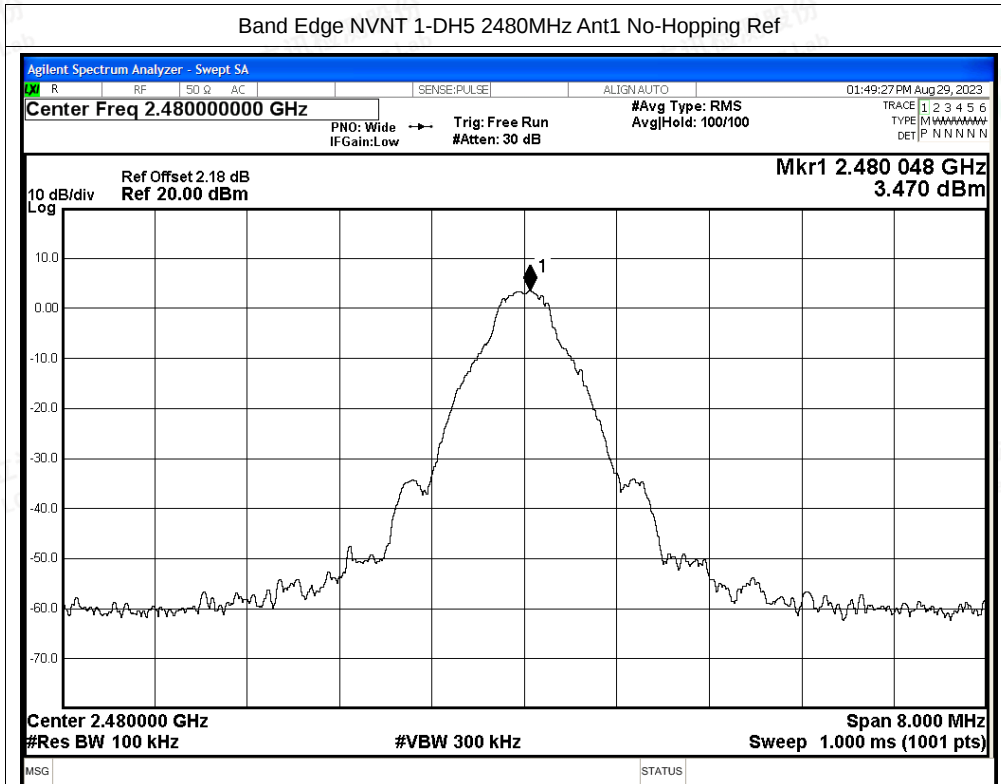
Test Graphs

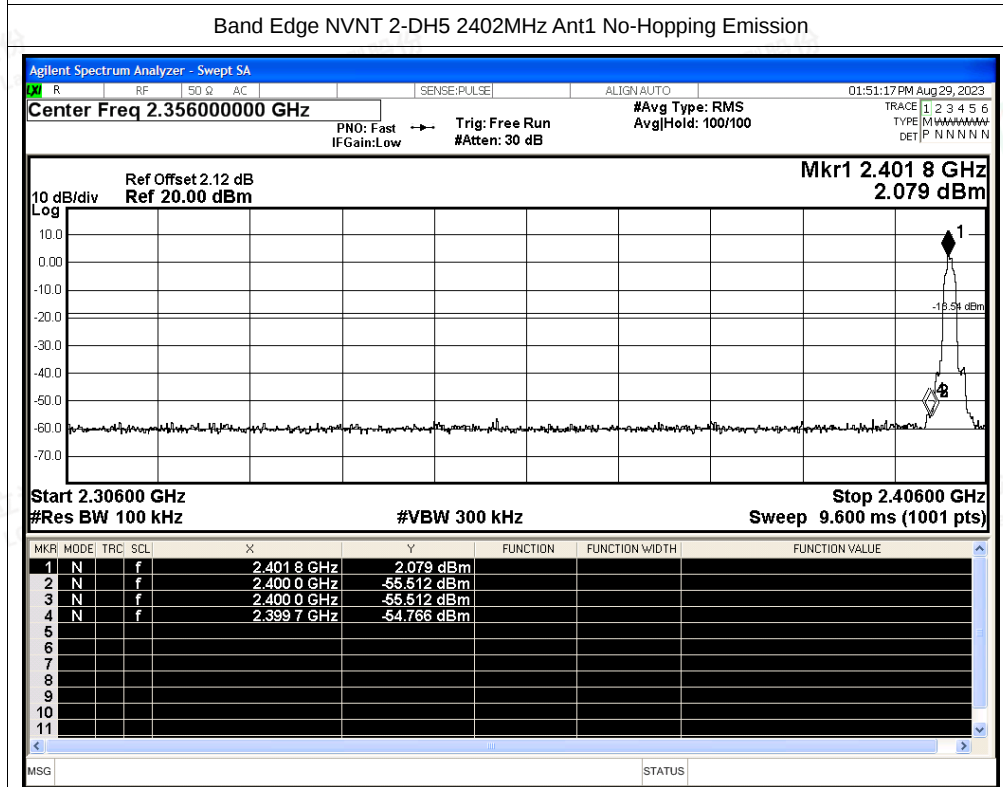
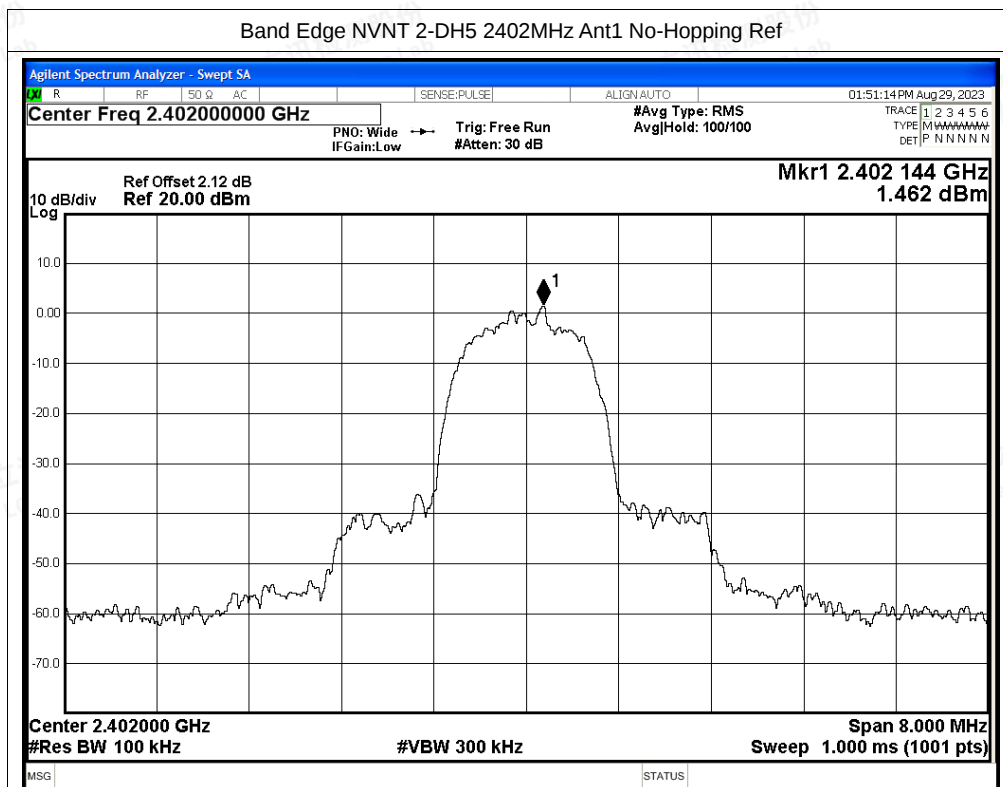
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

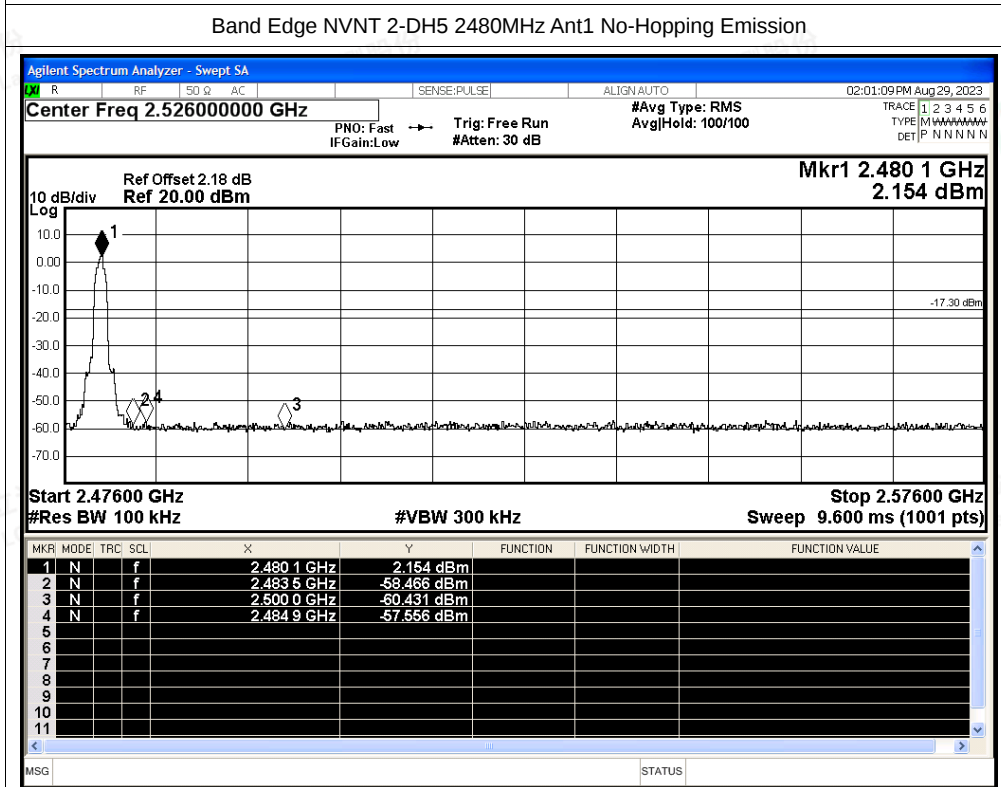
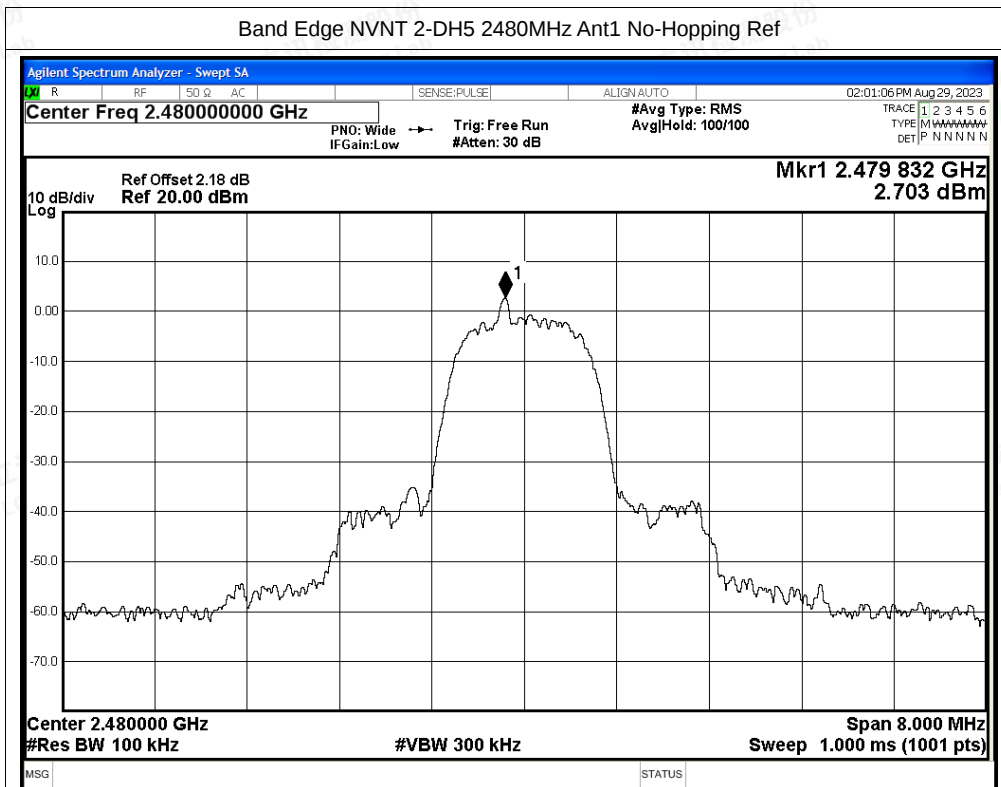


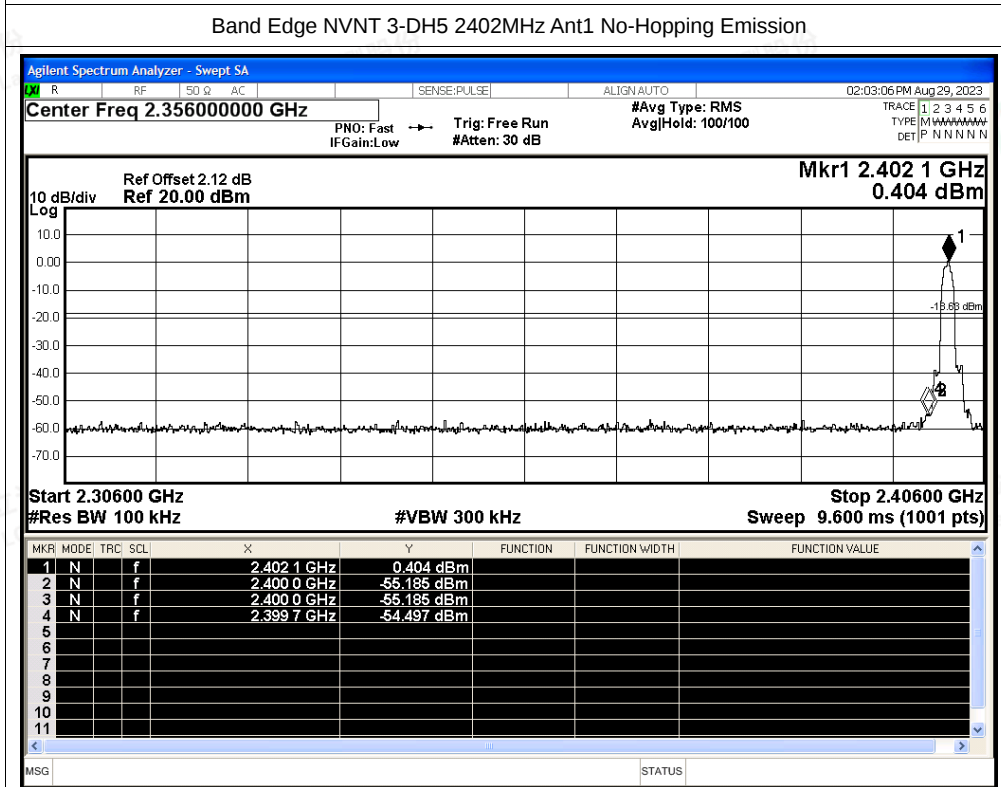
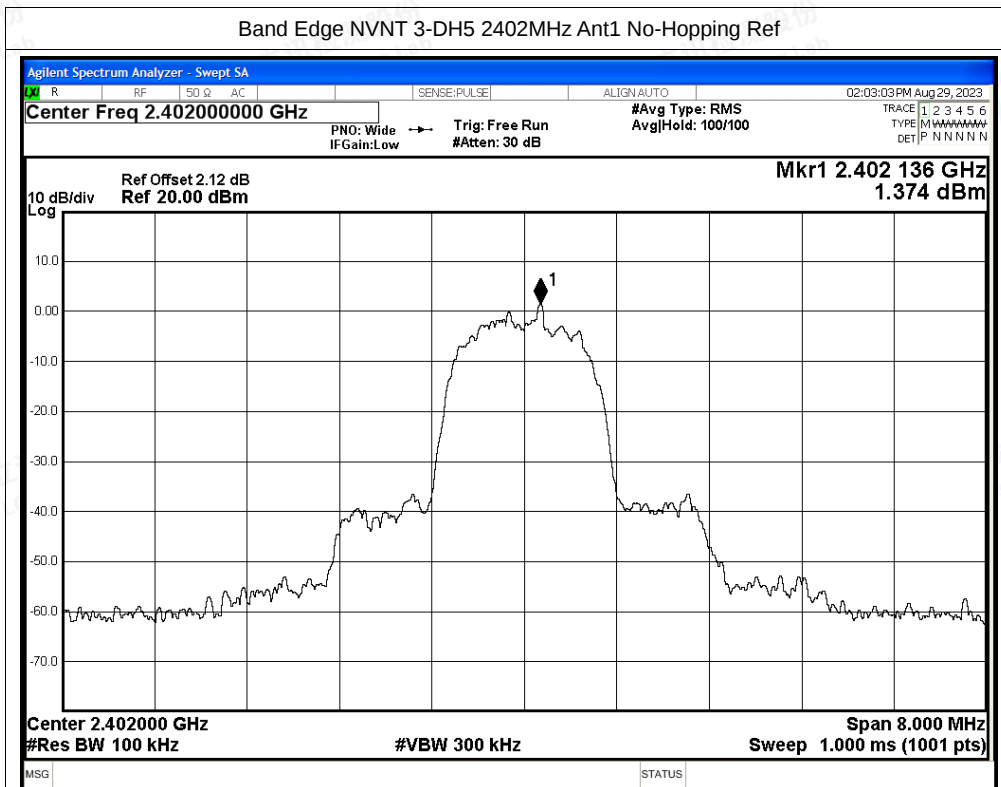
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

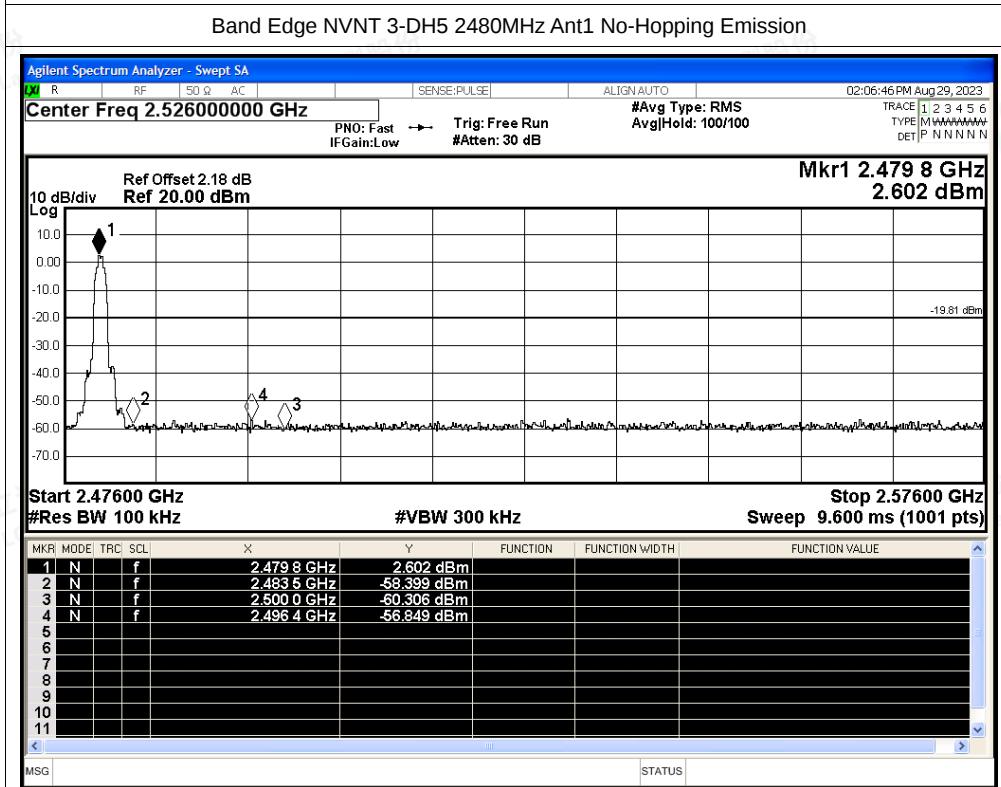
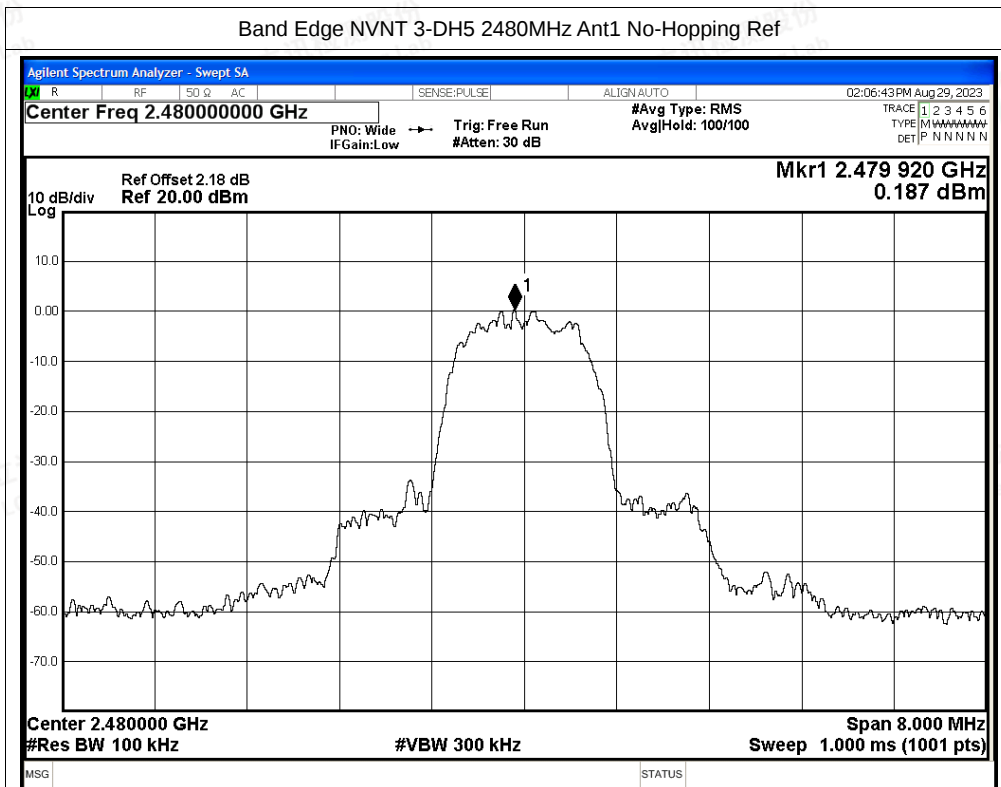














(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-59.27	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-59.15	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-57.39	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.78	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.83	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-58.24	-20	Pass

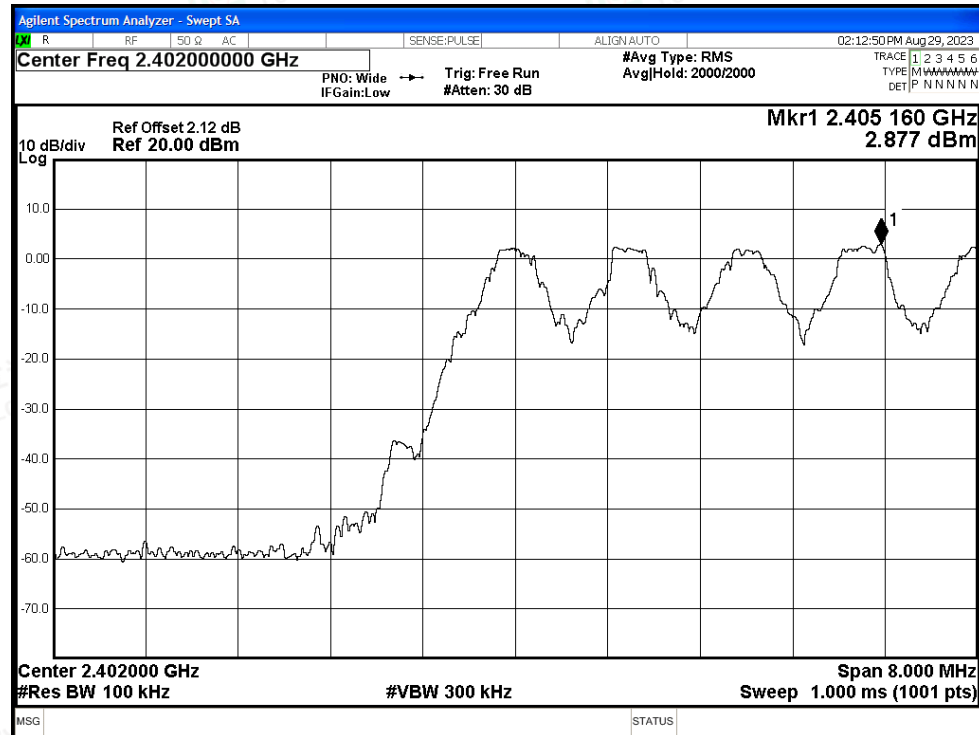


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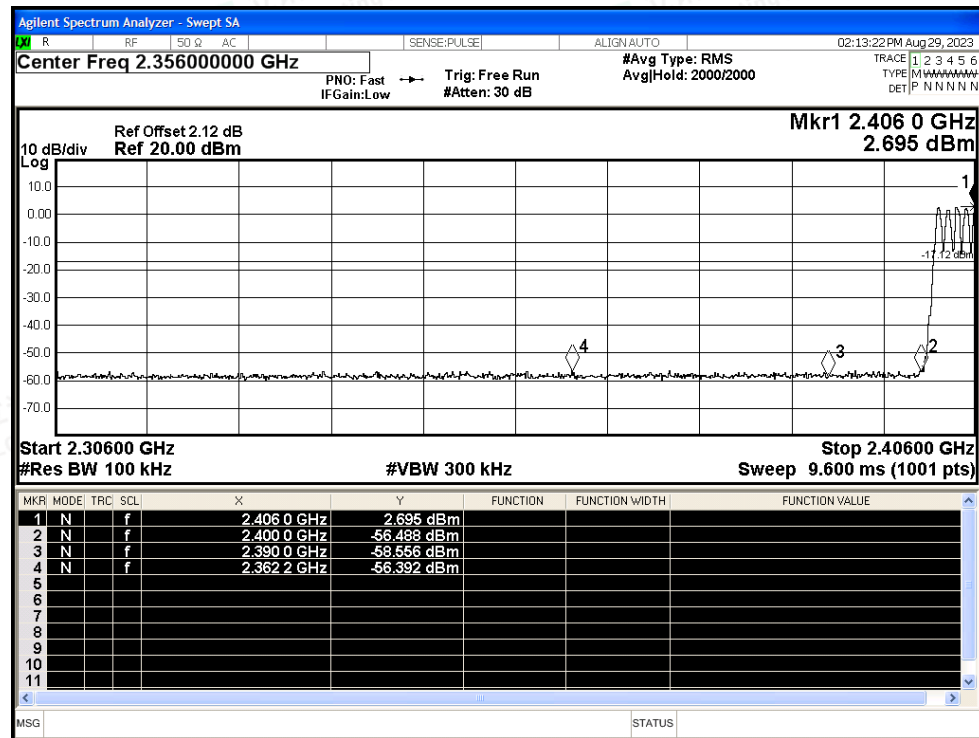


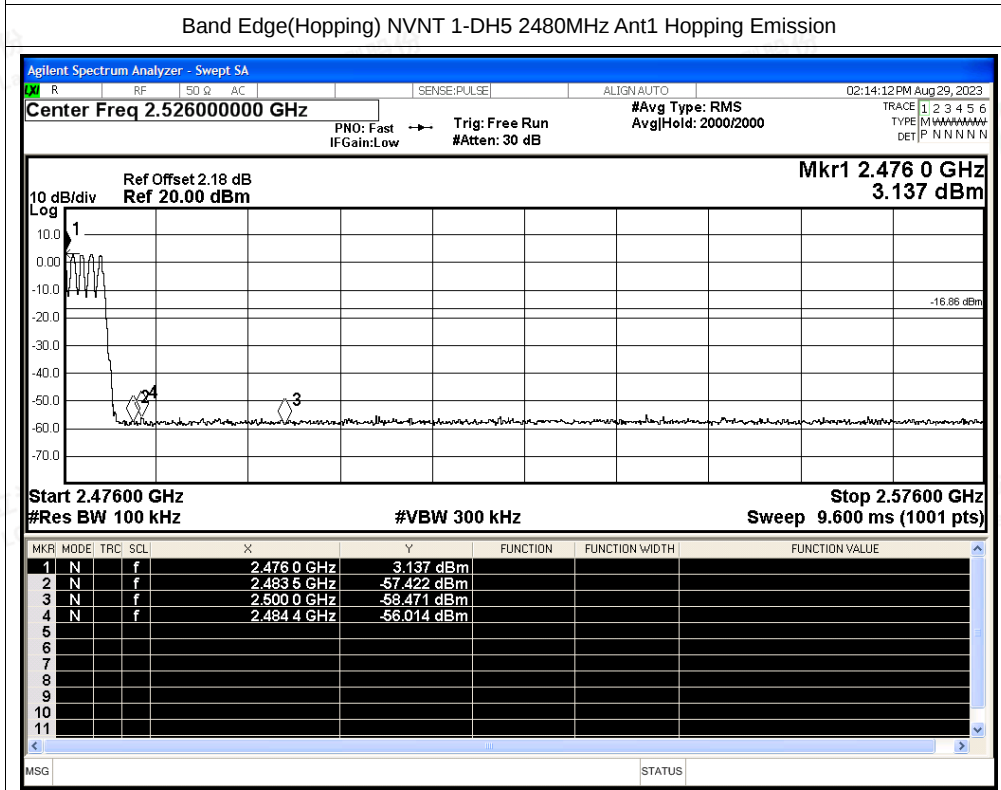
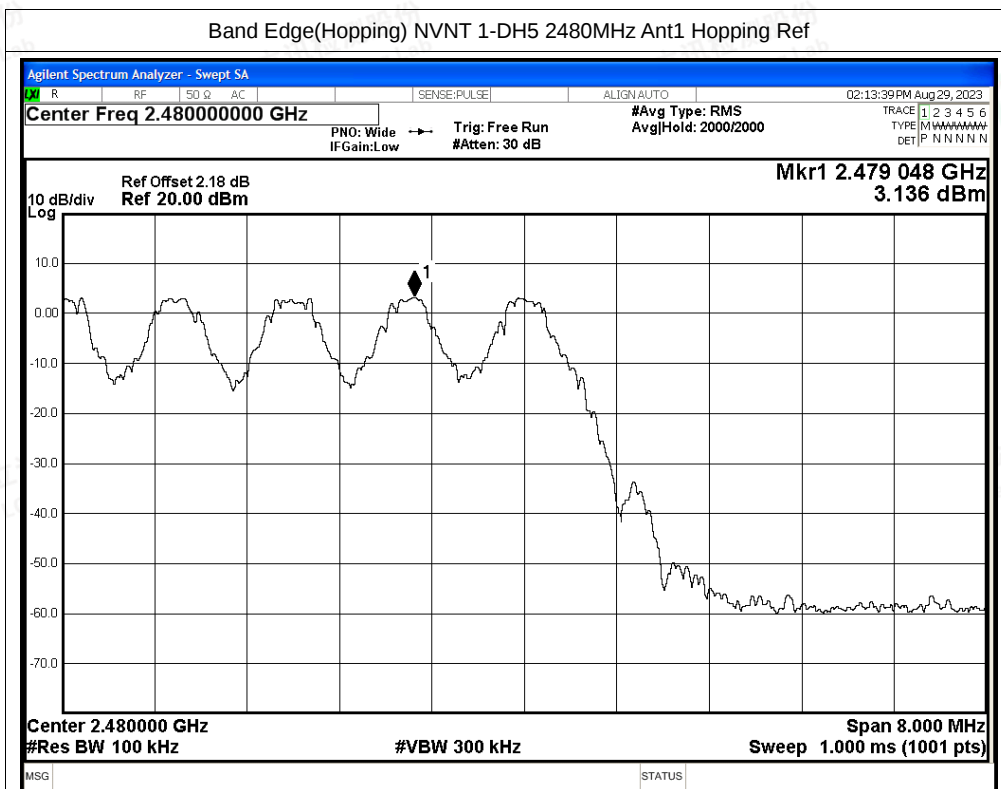
Test Graphs

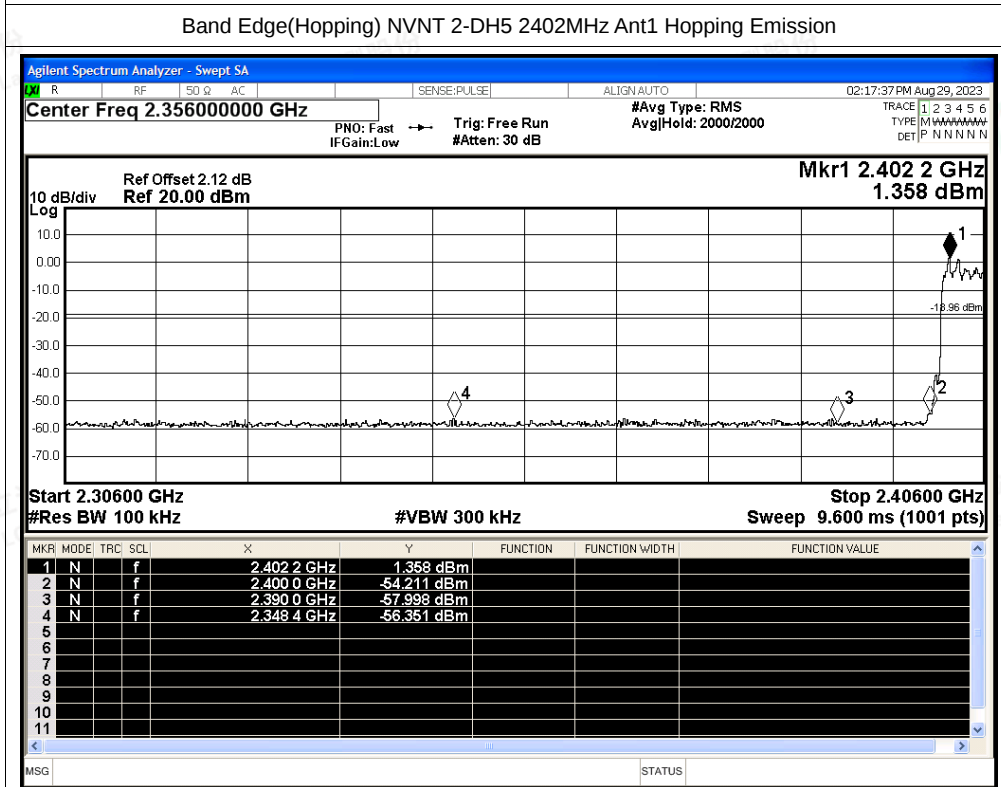
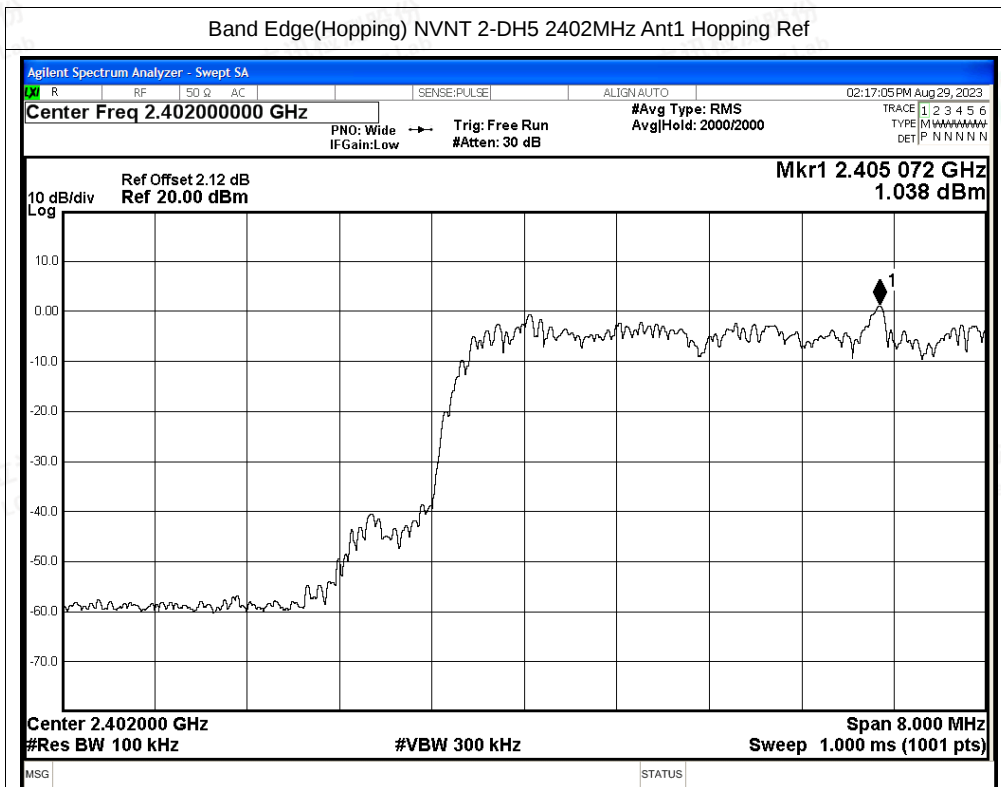
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

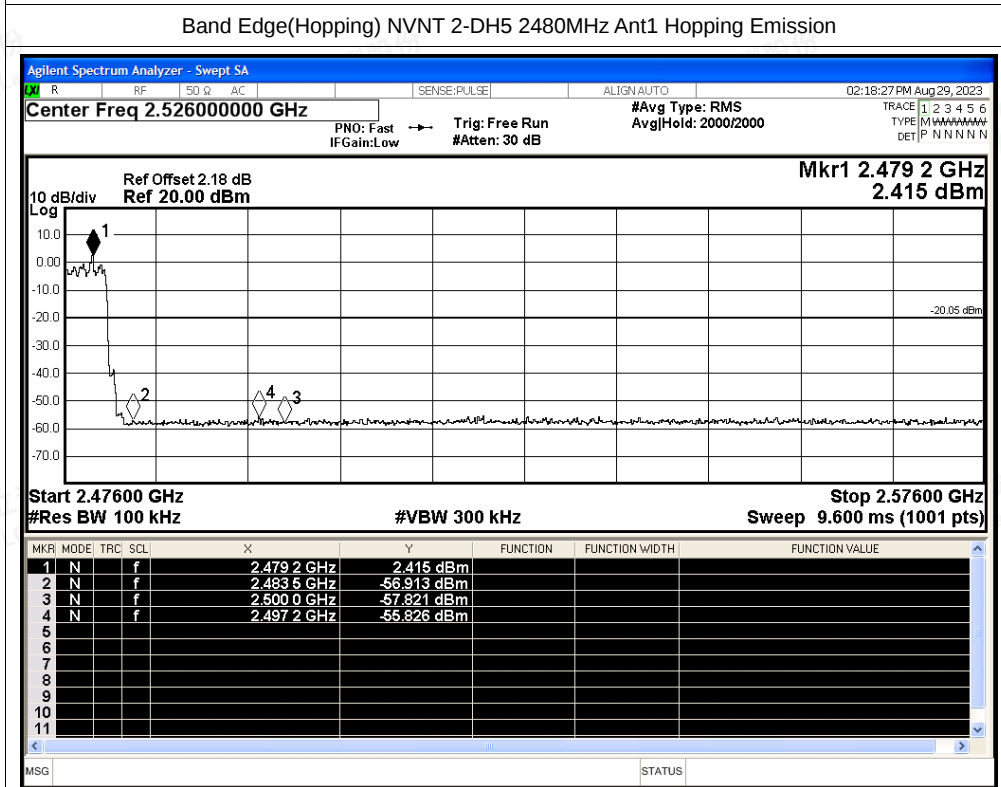
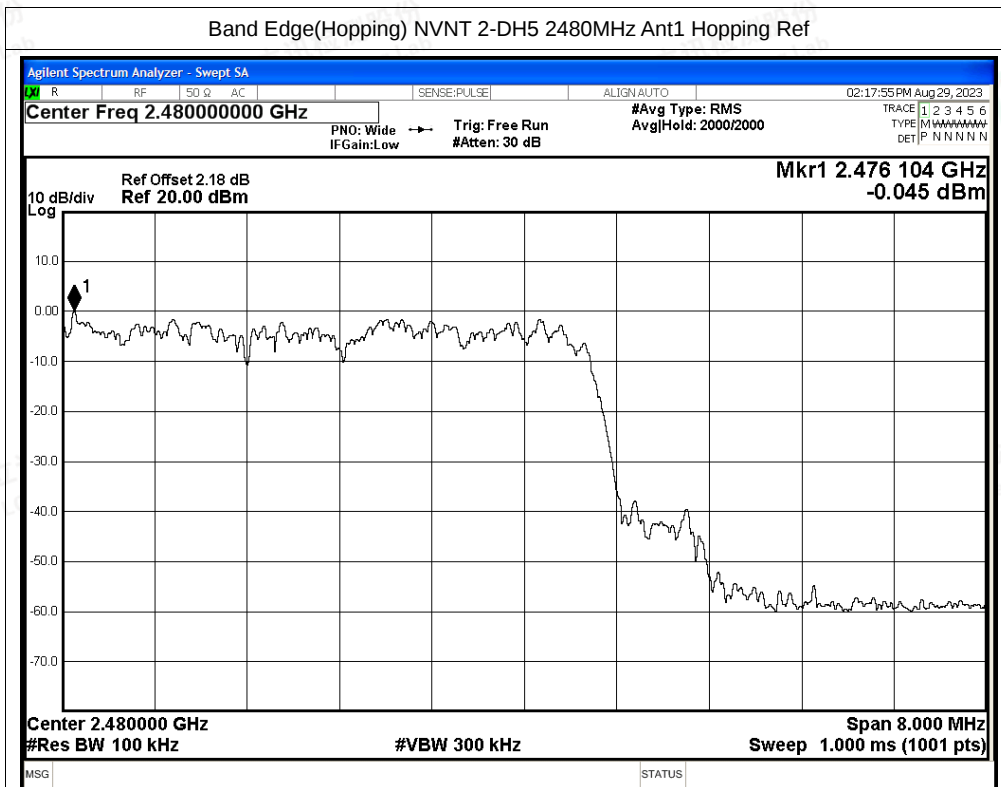


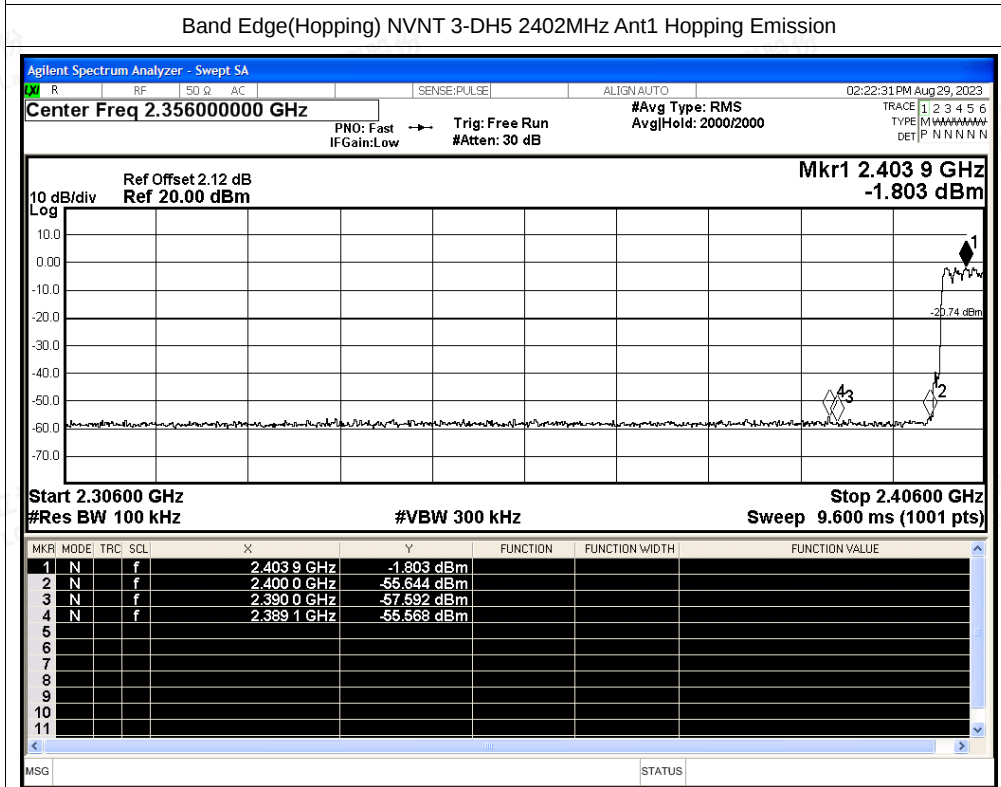
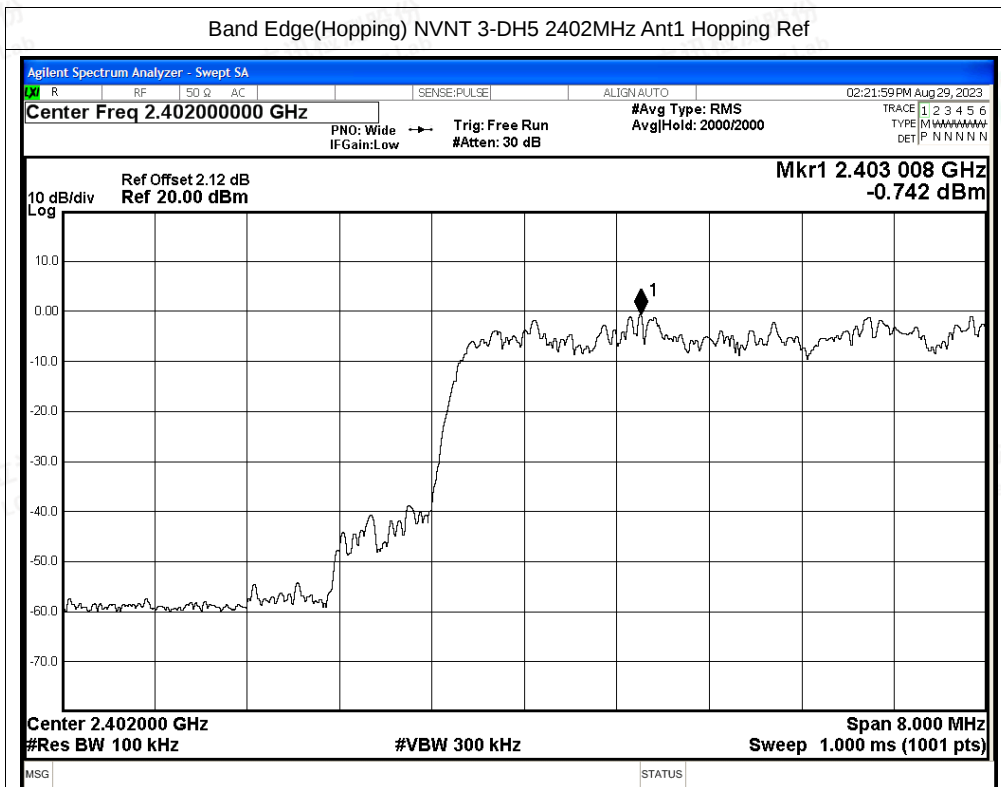
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

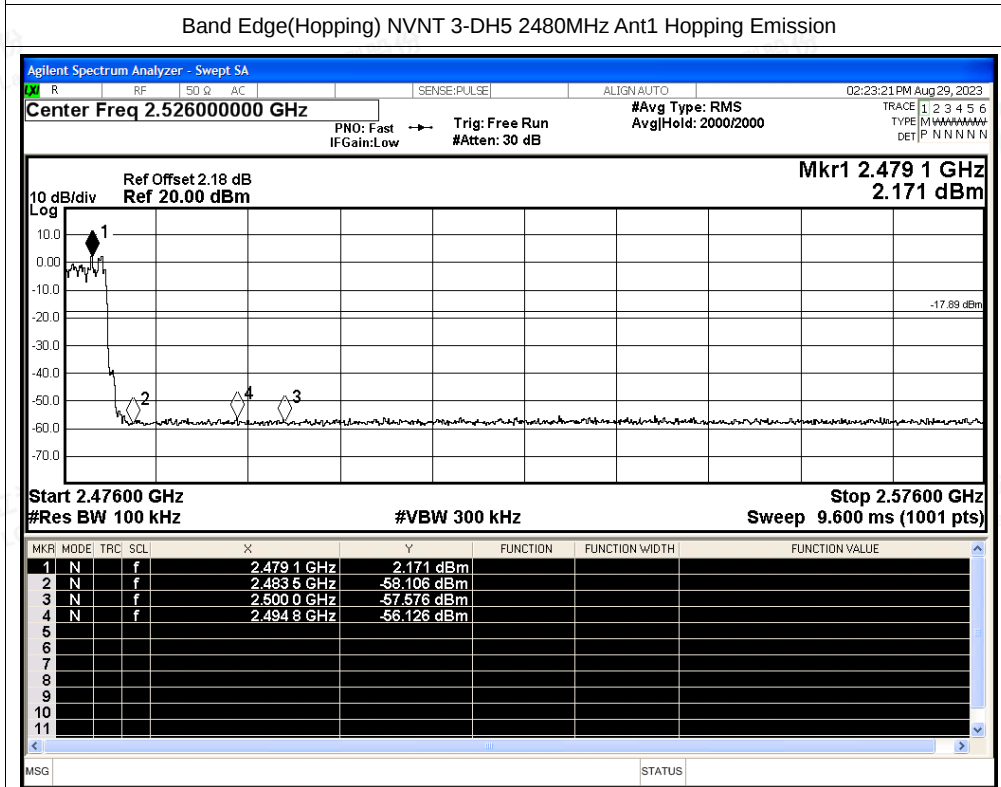
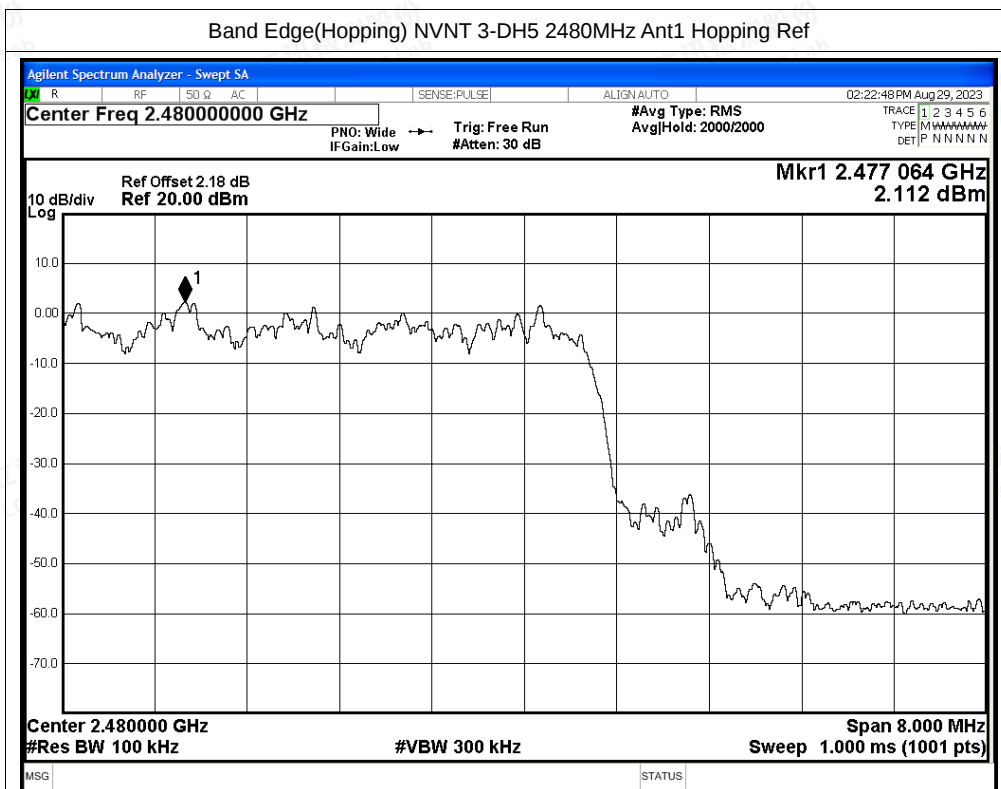














A.6 Duty Cycle

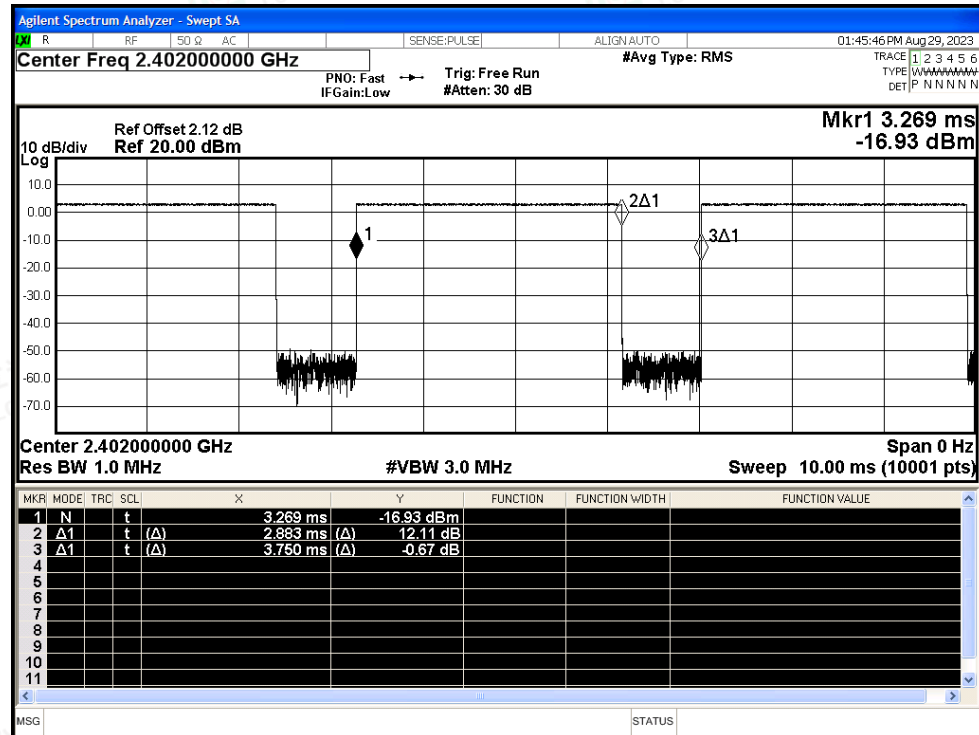
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.88	1.14	0.35
NVNT	2-DH5	2402	Ant1	76.99	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.99	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.96	1.14	0.35
NVNT	3-DH5	2402	Ant1	77.01	1.13	0.35
NVNT	3-DH5	2441	Ant1	77.04	1.13	0.35
NVNT	3-DH5	2480	Ant1	77.01	1.13	0.35



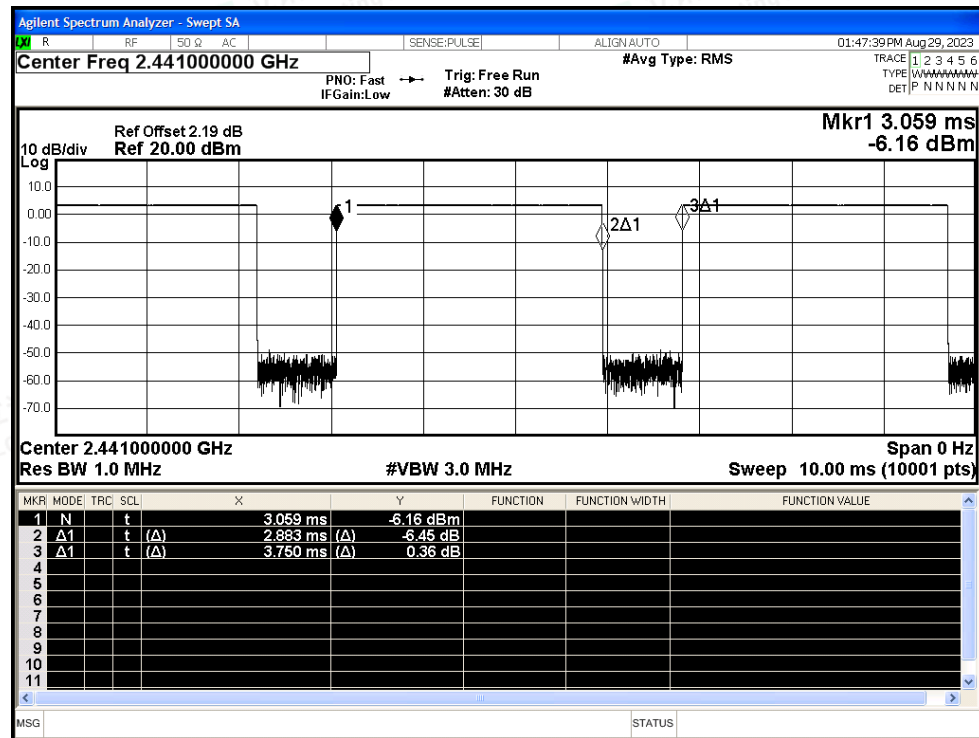


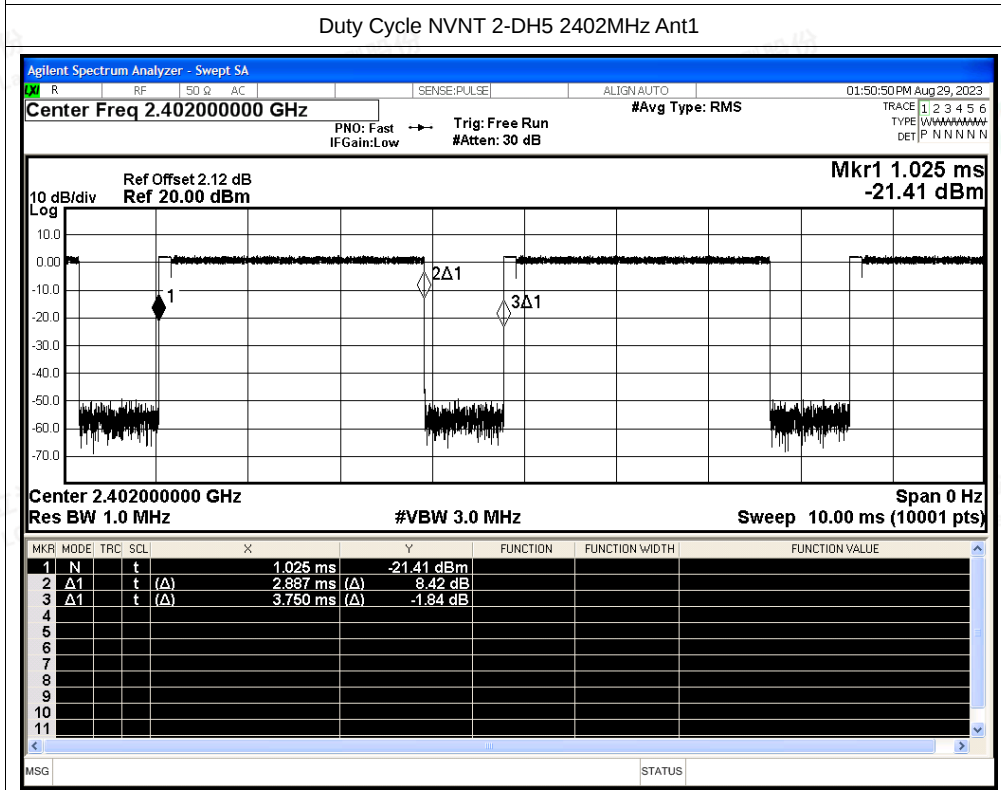
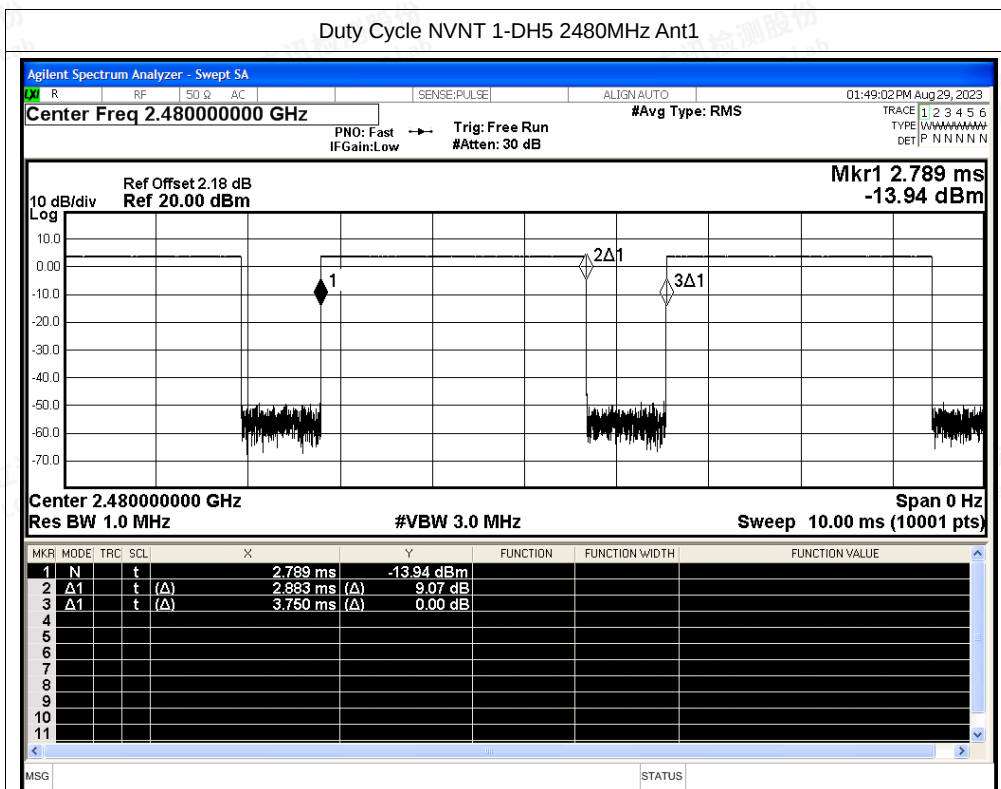
Test Graphs

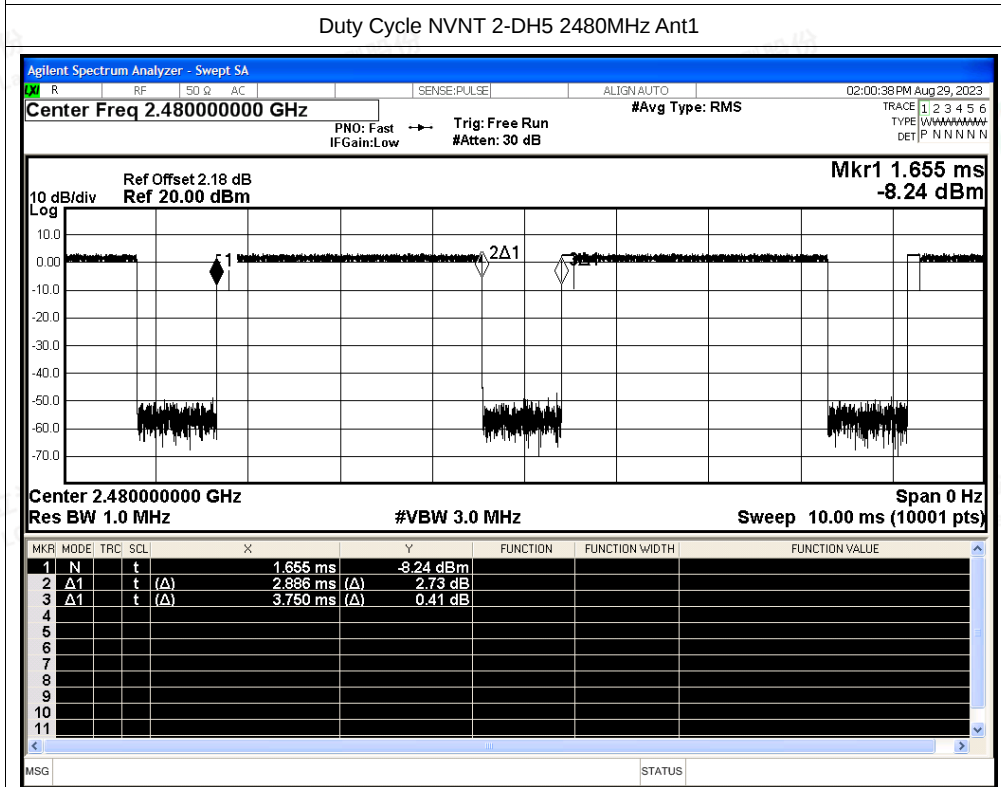
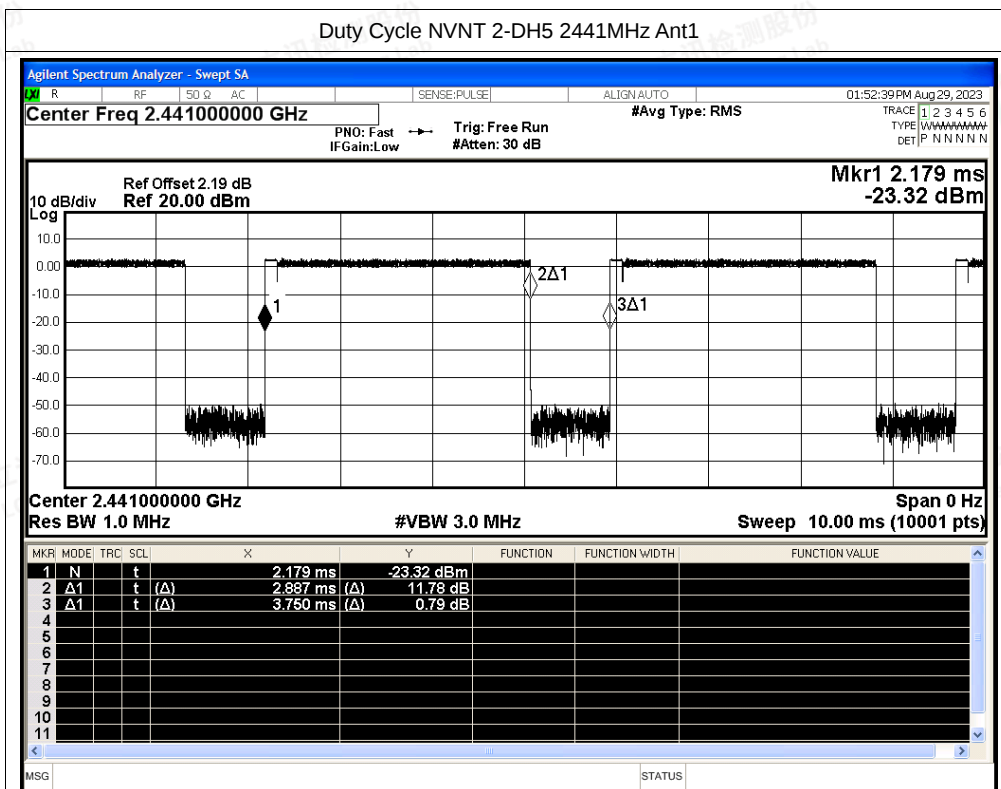
Duty Cycle NVNT 1-DH5 2402MHz Ant1

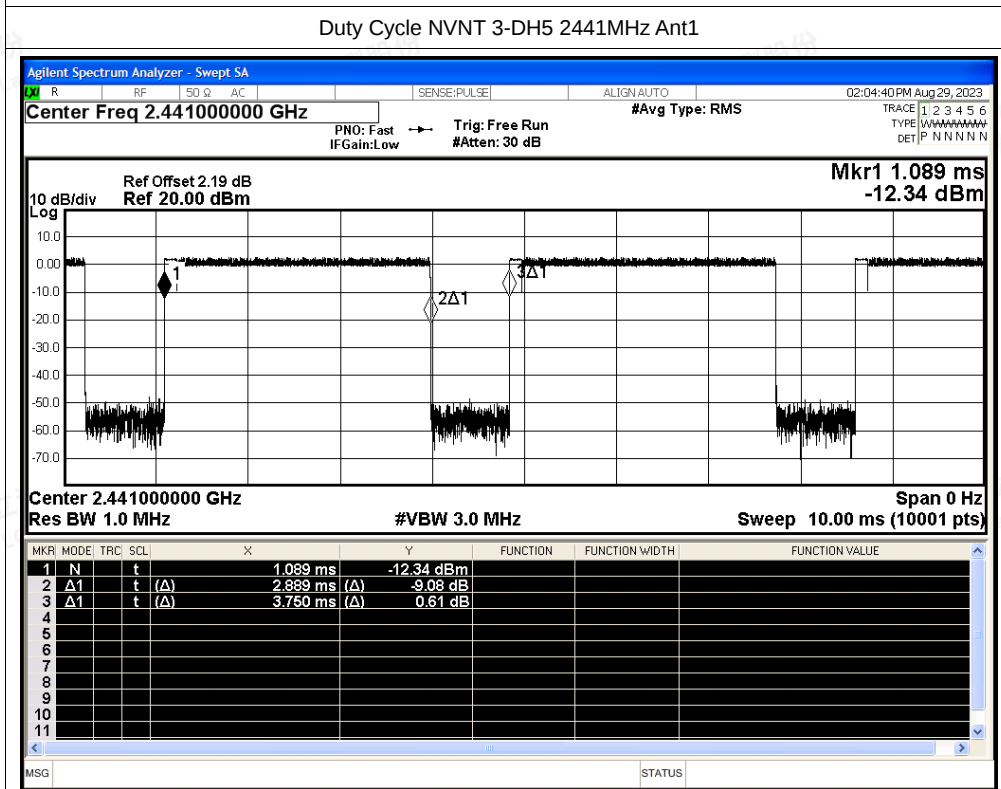
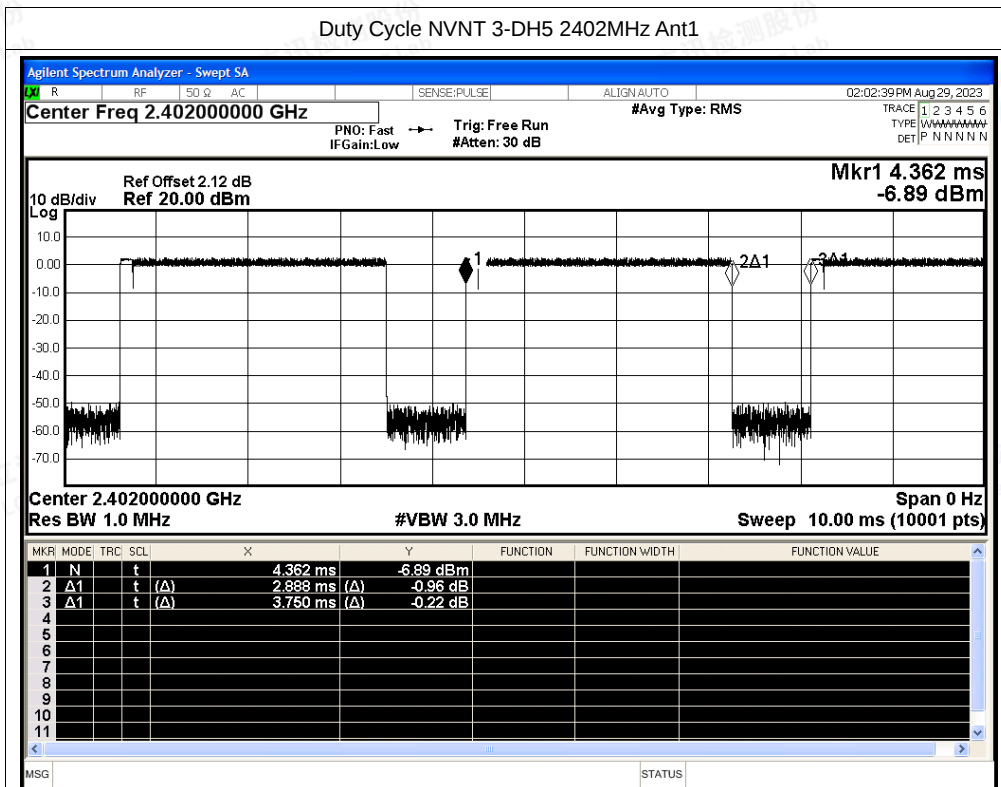


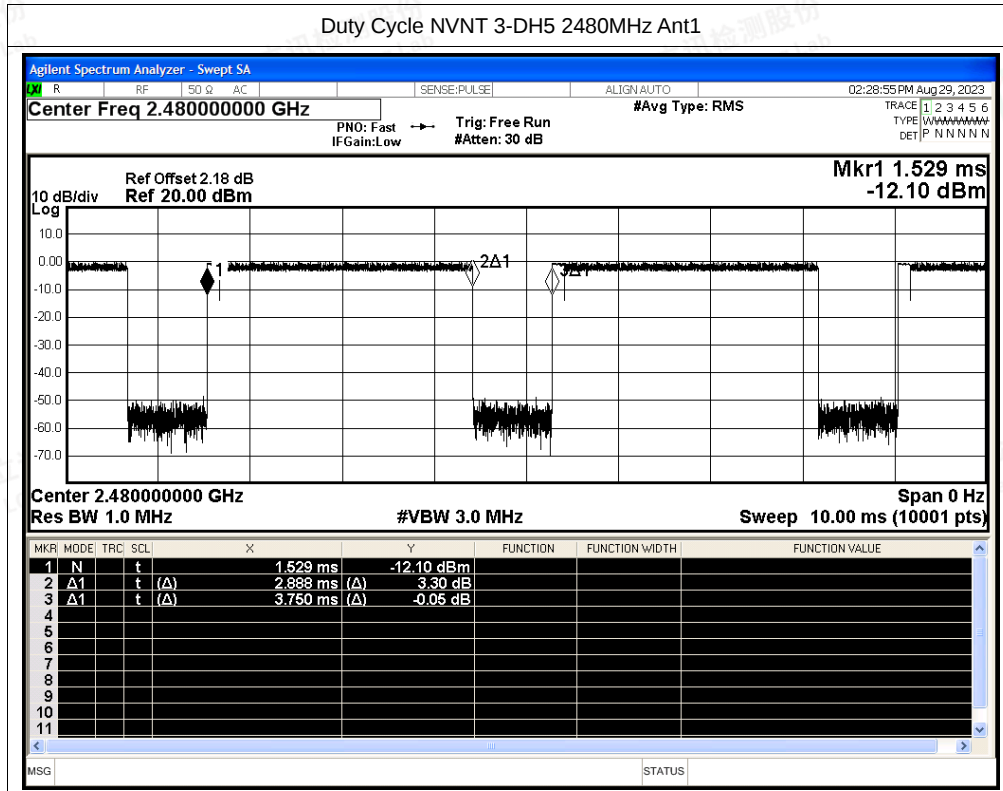
Duty Cycle NVNT 1-DH5 2441MHz Ant1













A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-57.99	-20	Pass
NVNT	1-DH5	2441	Ant1	-58.06	-20	Pass
NVNT	1-DH5	2480	Ant1	-58.26	-20	Pass
NVNT	2-DH5	2402	Ant1	-57.18	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.97	-20	Pass
NVNT	2-DH5	2480	Ant1	-56.59	-20	Pass
NVNT	3-DH5	2402	Ant1	-56.68	-20	Pass
NVNT	3-DH5	2441	Ant1	-56.91	-20	Pass
NVNT	3-DH5	2480	Ant1	-57.05	-20	Pass

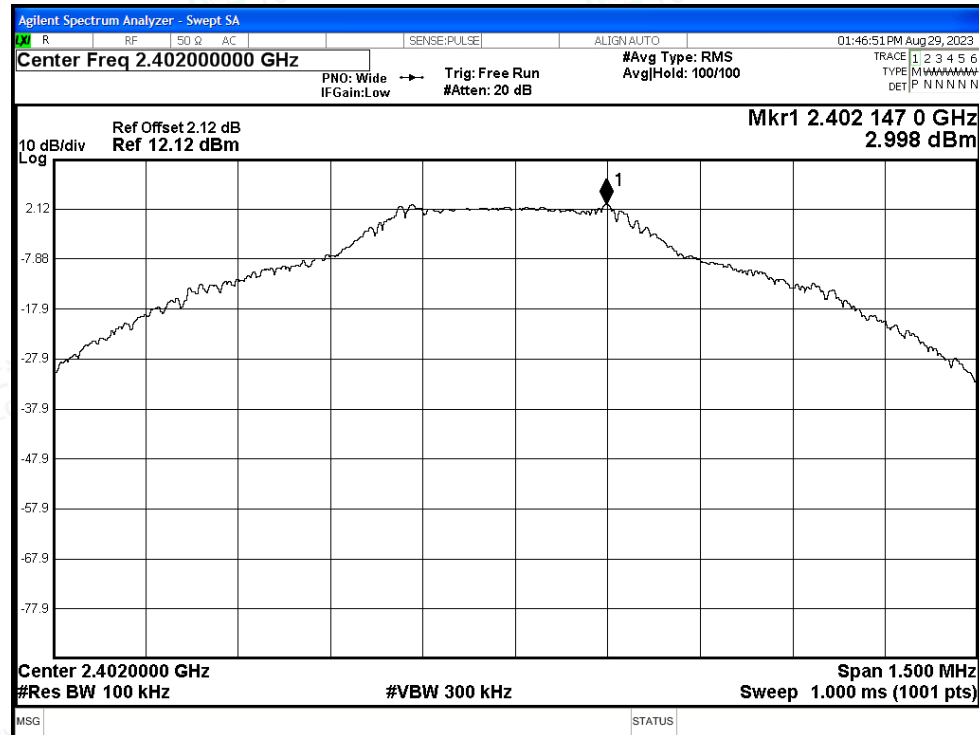


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518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

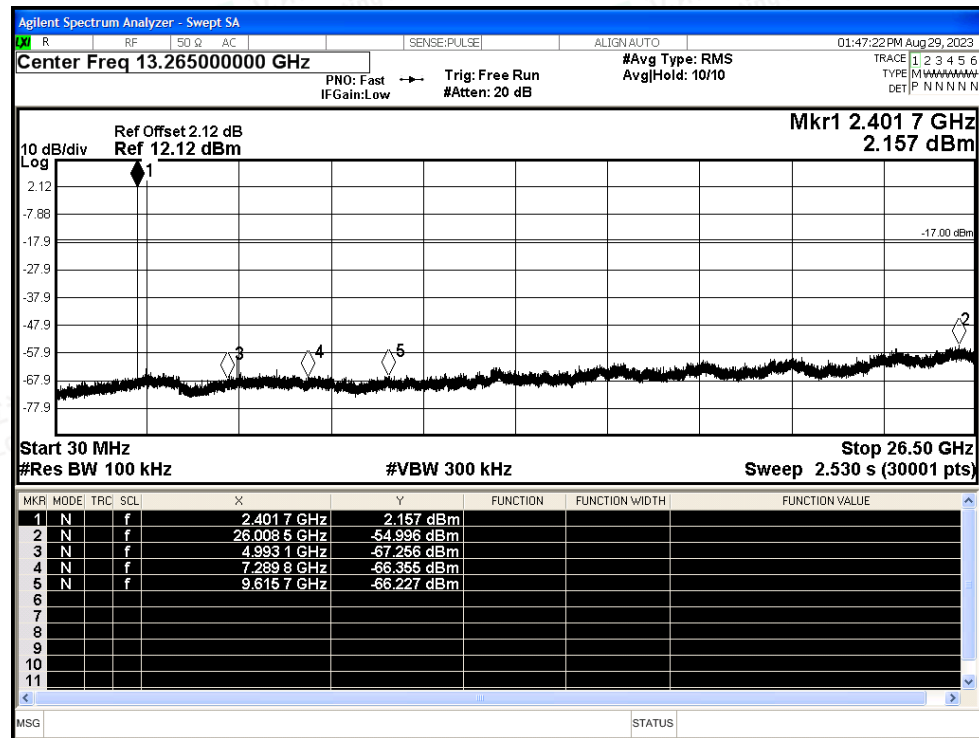


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

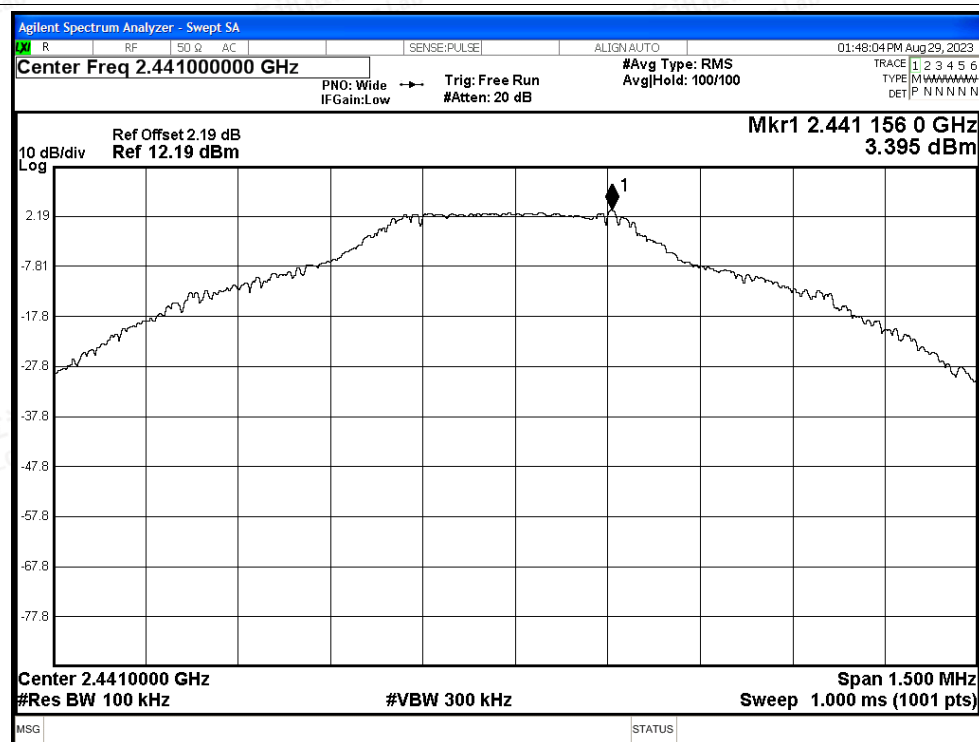


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

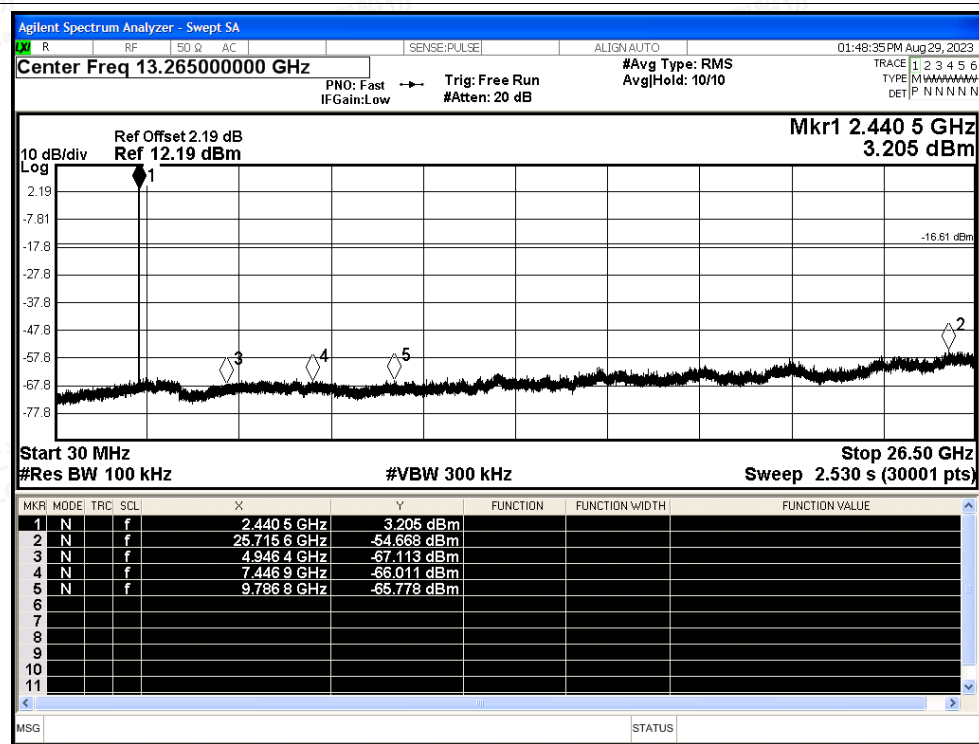




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

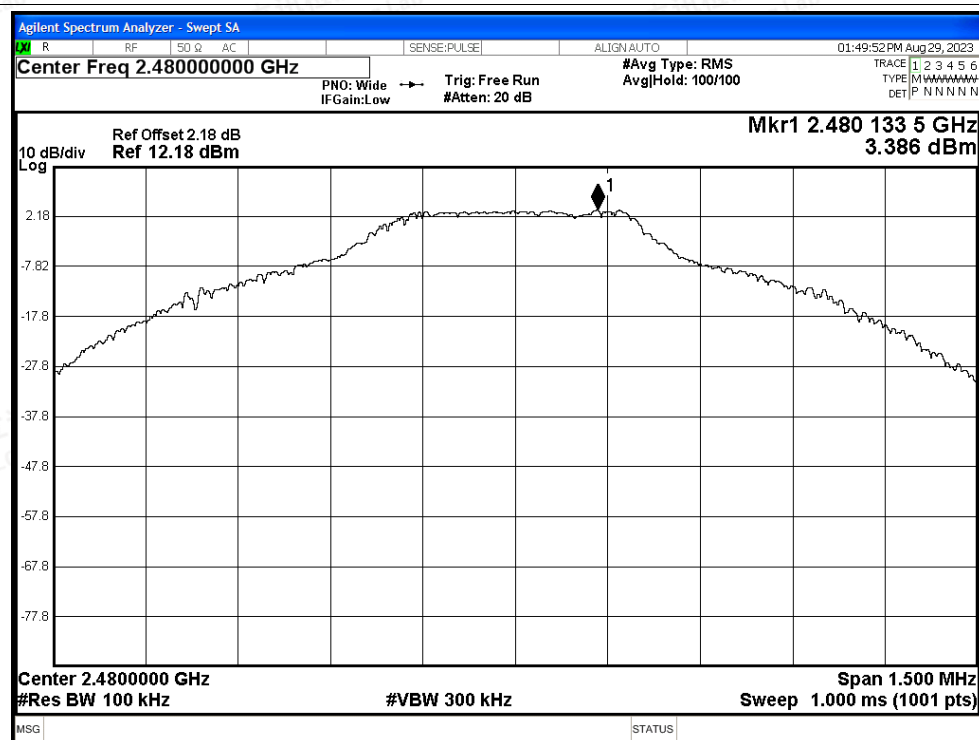


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

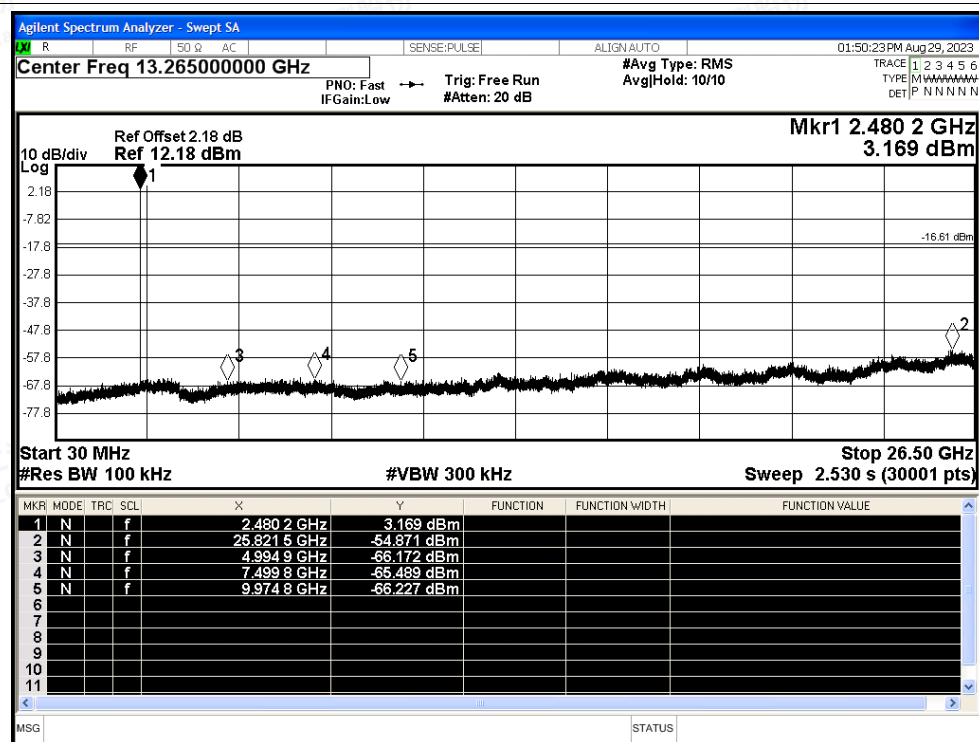




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

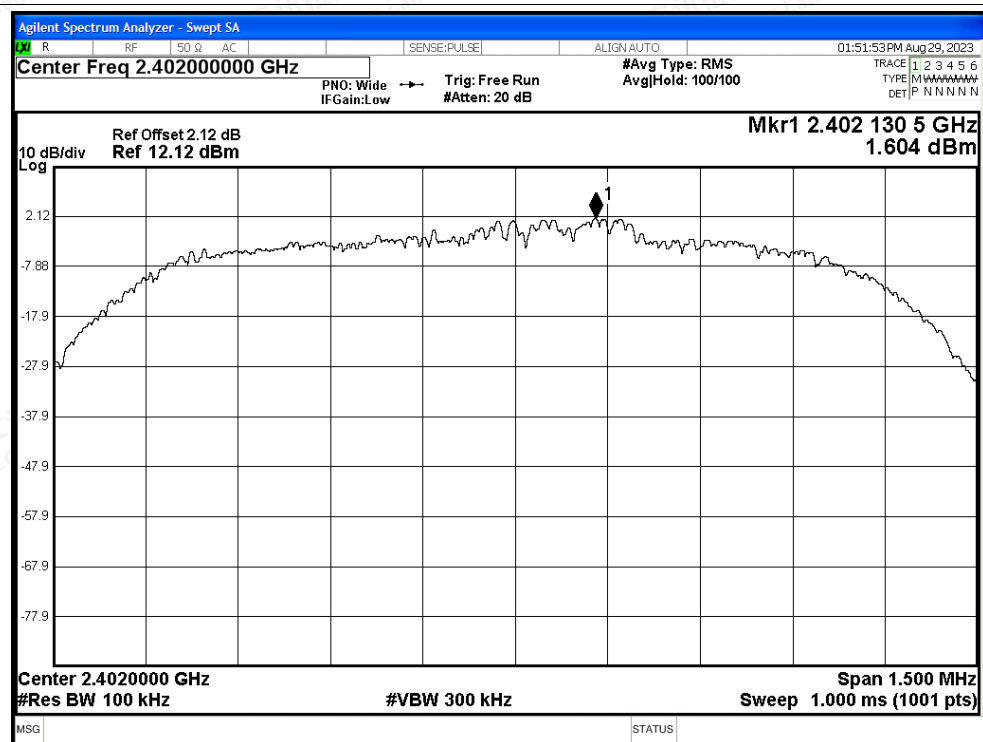


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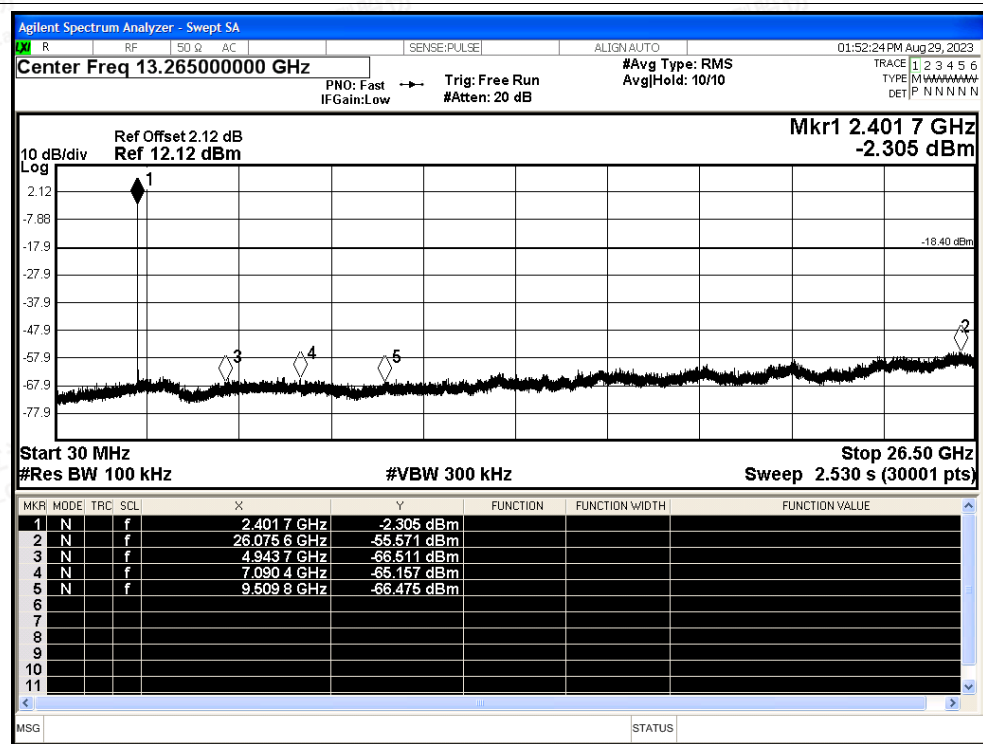




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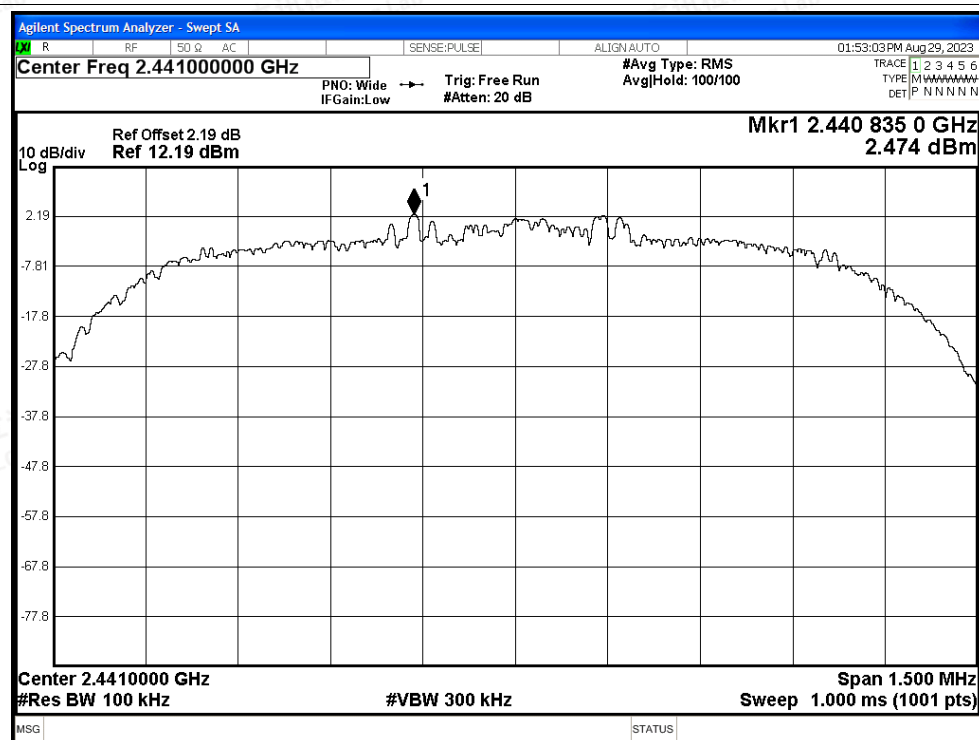


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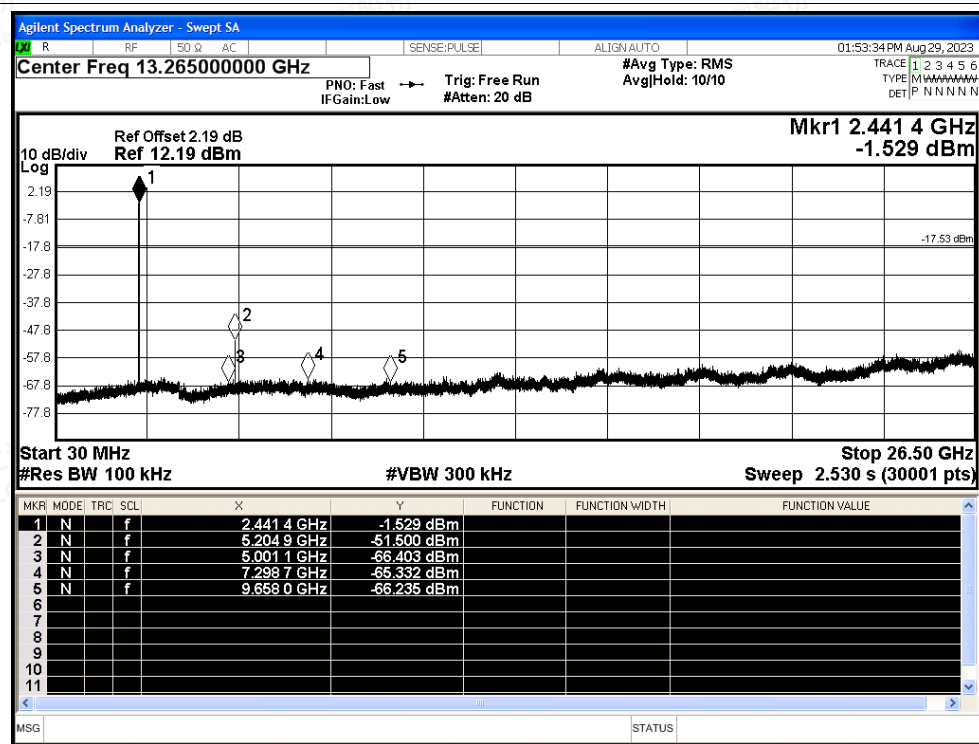




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

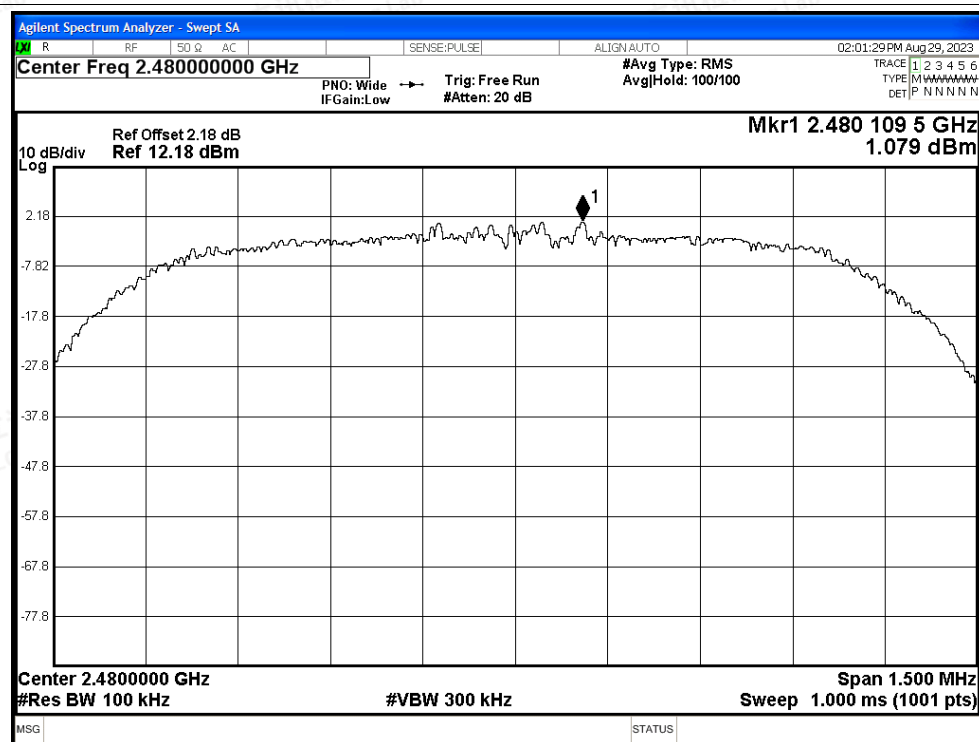
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

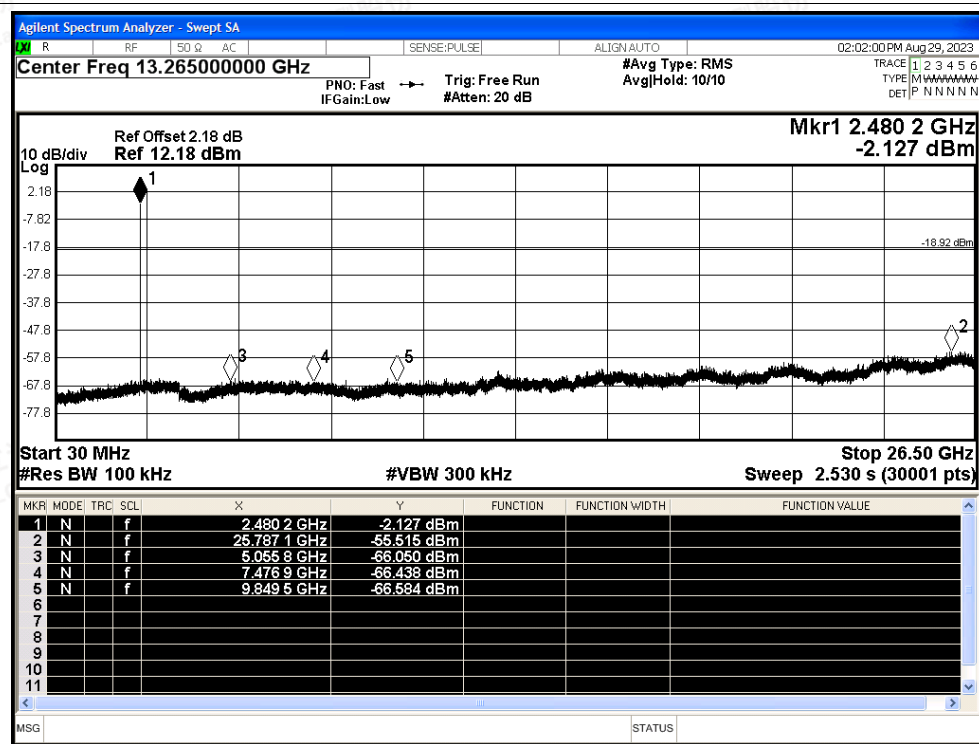
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

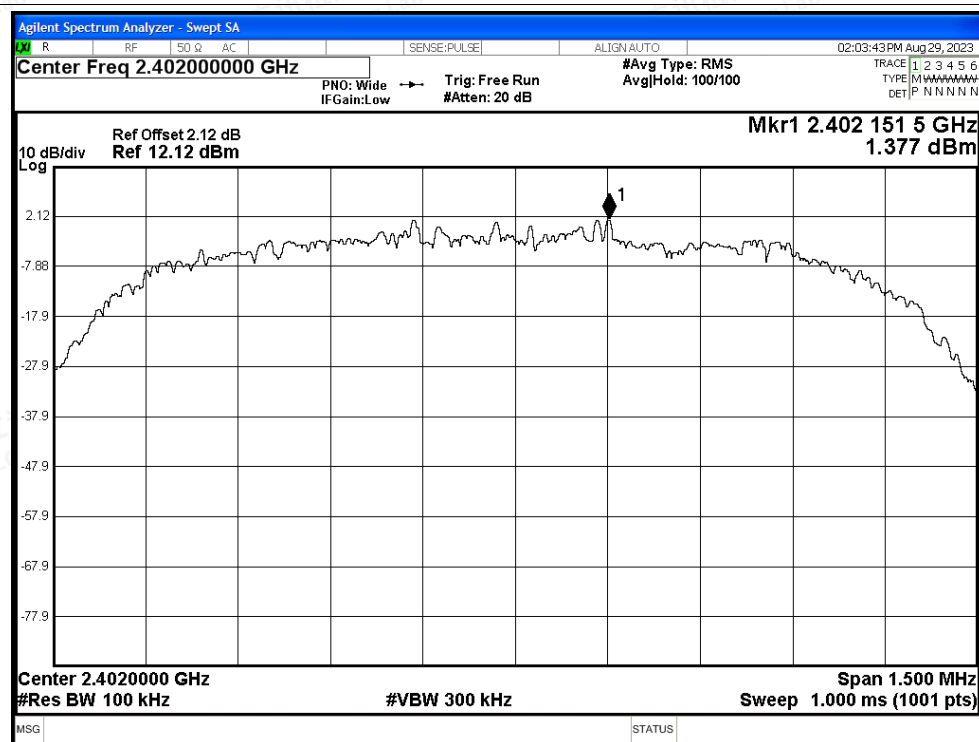


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

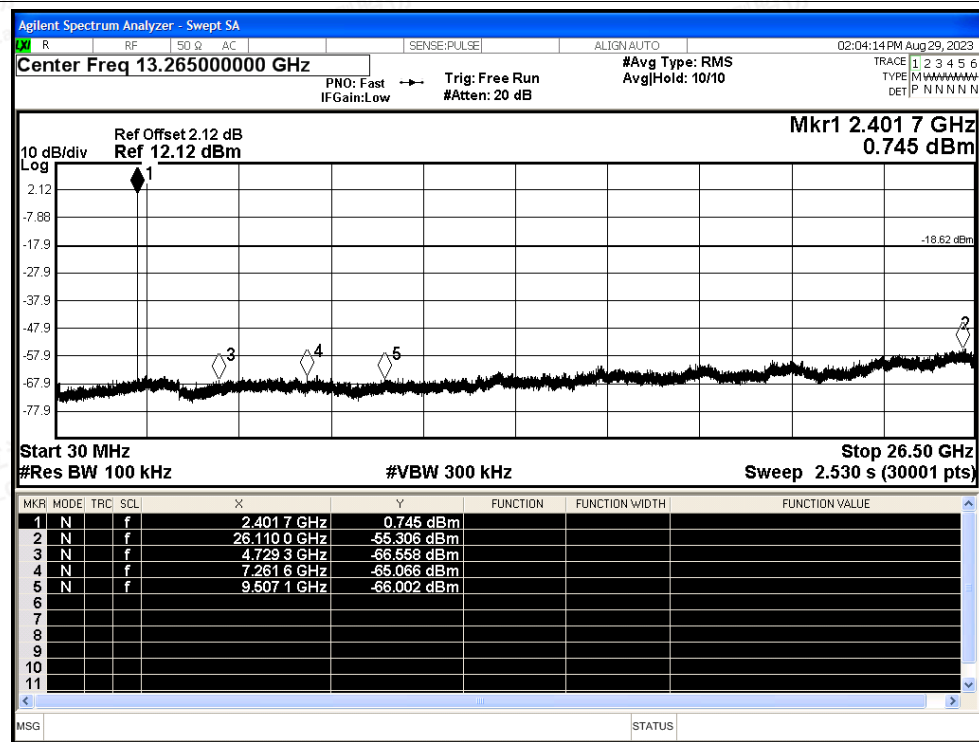




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

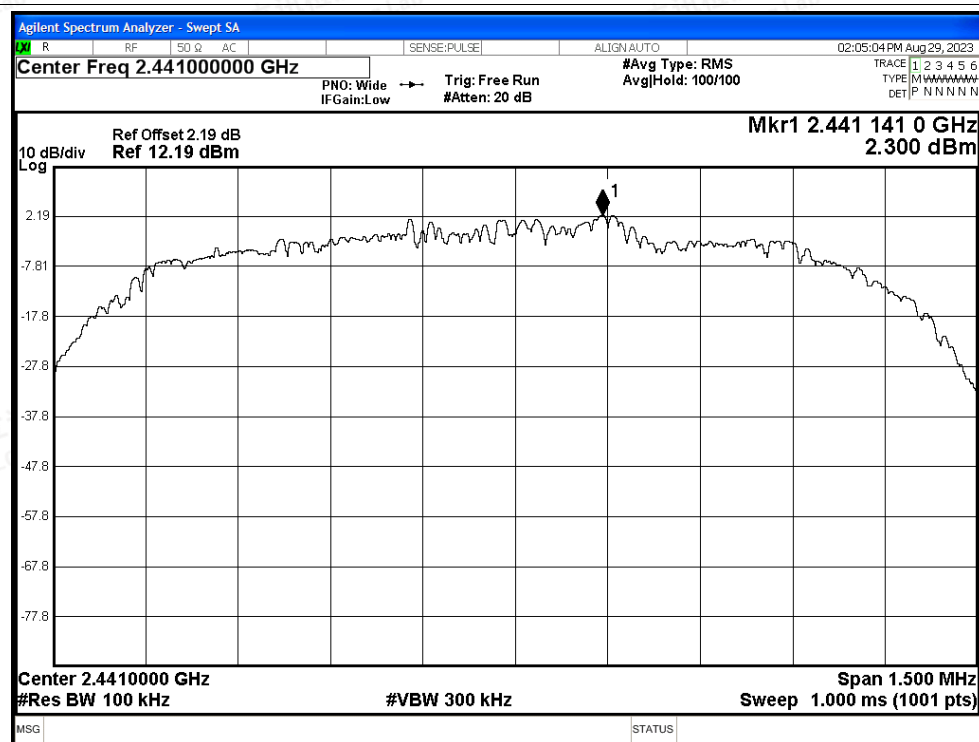


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

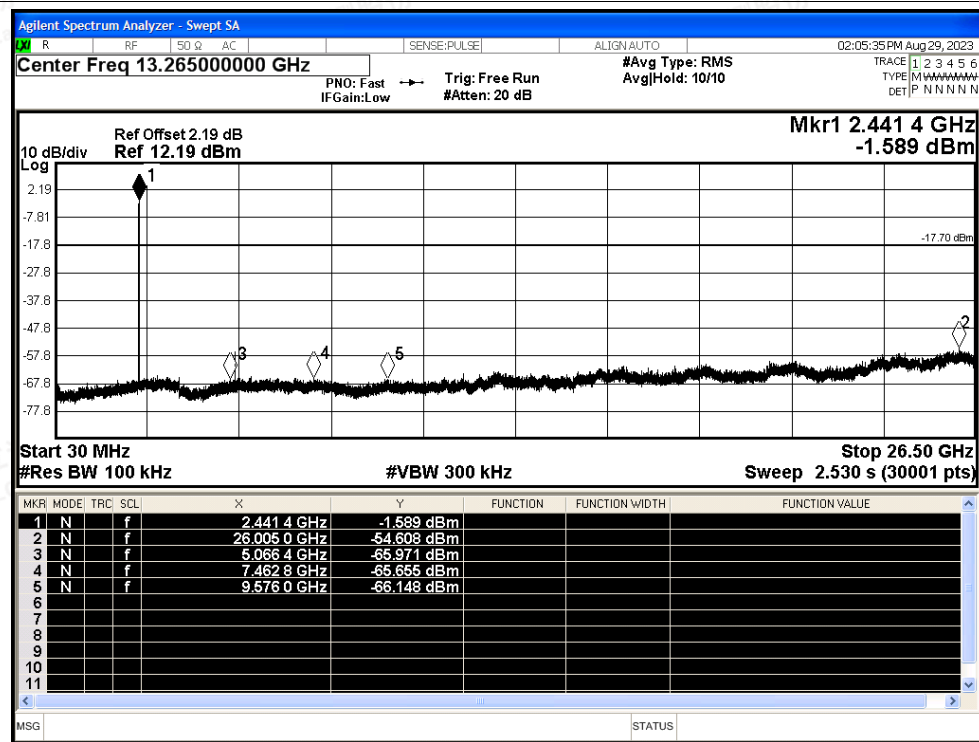




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

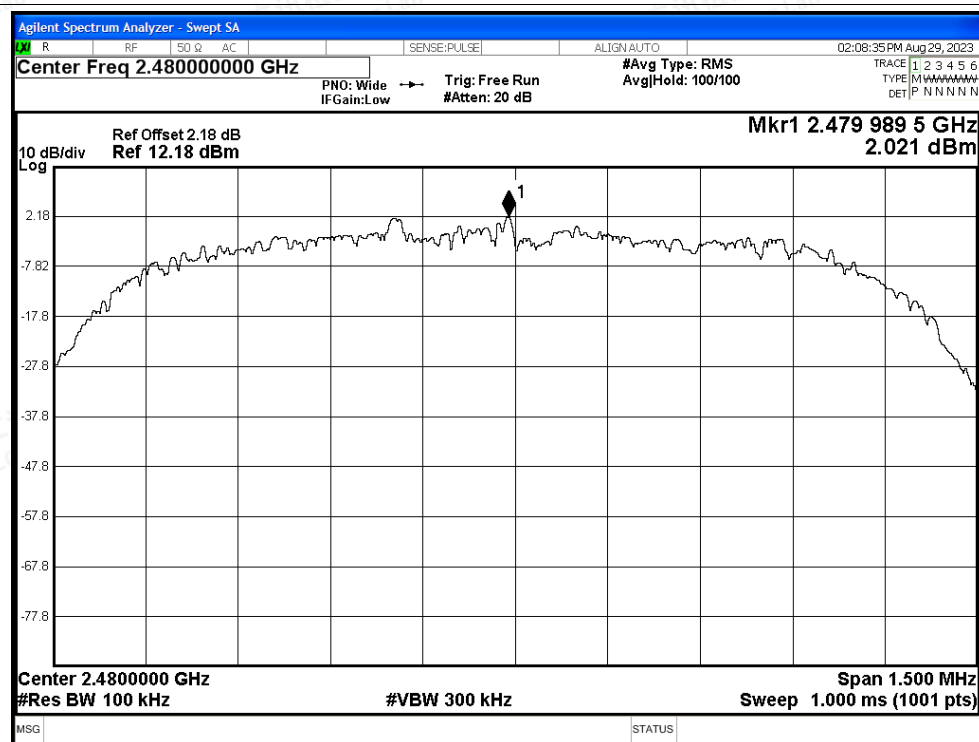


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

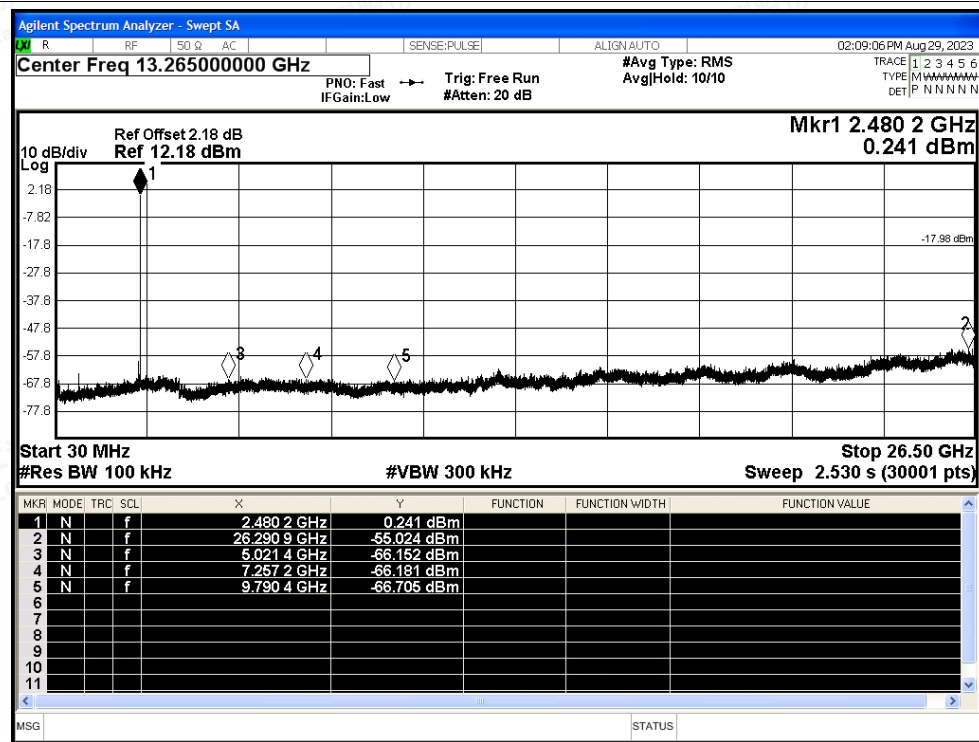




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

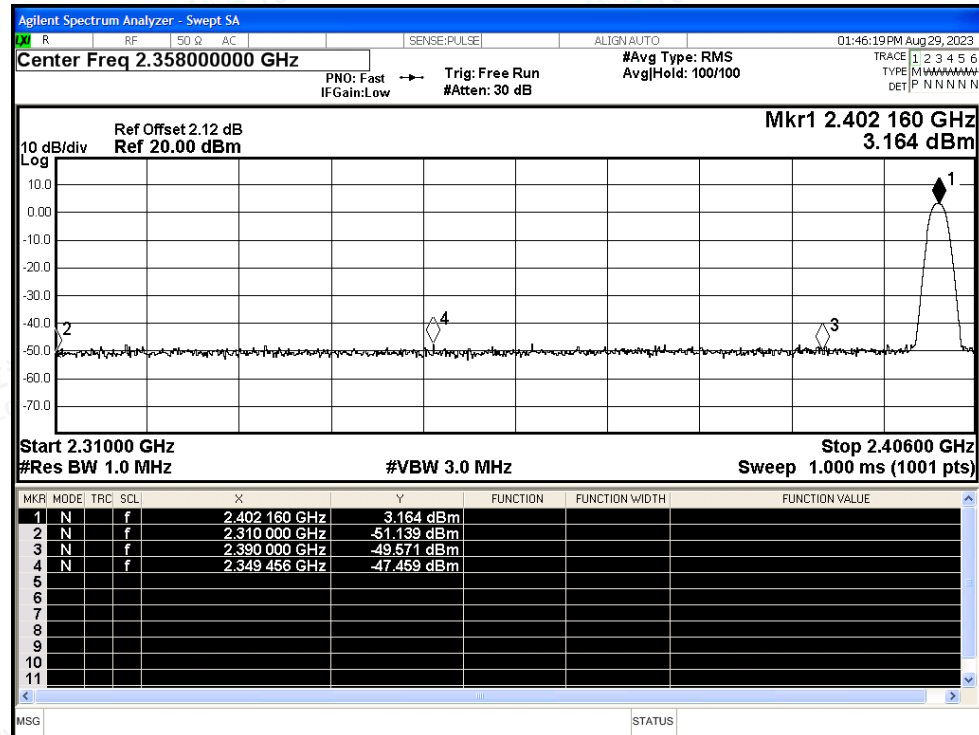
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.14	2	46.12	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.86	2	39.4	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2349.456	-47.46	2	49.8	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2388.624	-57.34	2	39.92	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.57	2	47.69	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.46	2	39.8	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.53	2	47.73	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-54.48	2	42.78	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2490.616	-46.53	2	50.73	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-54.48	2	42.78	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.21	2	46.05	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.13	2	40.13	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.26	2	46	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.86	2	39.4	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.296	-47.09	2	50.17	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2386.512	-57.31	2	39.95	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.74	2	46.52	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.34	2	39.92	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.46	2	48.8	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-54.16	2	43.1	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2486.848	-46.58	2	50.68	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-54.16	2	43.1	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.03	2	48.23	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.14	2	40.12	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.28	2	45.98	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58	2	39.26	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2321.904	-46.85	2	50.41	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2375.28	-57.4	2	39.86	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.91	2	47.35	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.49	2	39.77	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.47	2	46.79	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-54.28	2	42.98	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2488	-45.64	2	51.62	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-54.28	2	42.98	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.32	2	47.94	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.55	2	39.71	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

