



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Mibro Watch A2

Test Model: XPAW015

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker.Hu Joker Hu
Supervised by:	Li hu Li huan





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.009	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.006	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.967	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.319	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.315	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.309	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.298	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.297	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.265	N/A	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

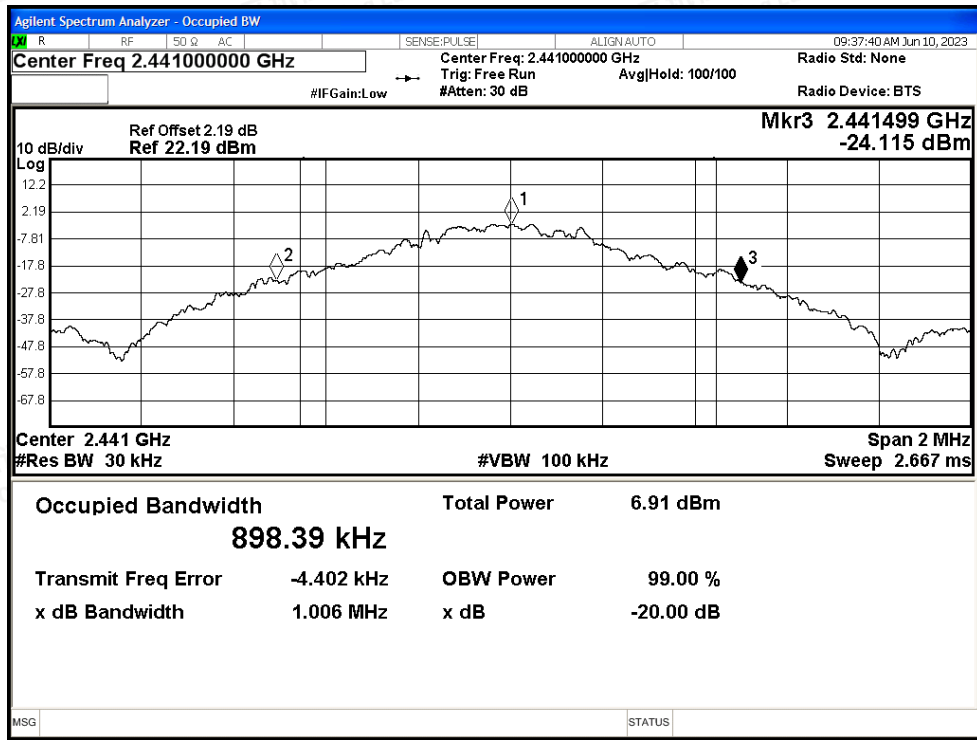


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

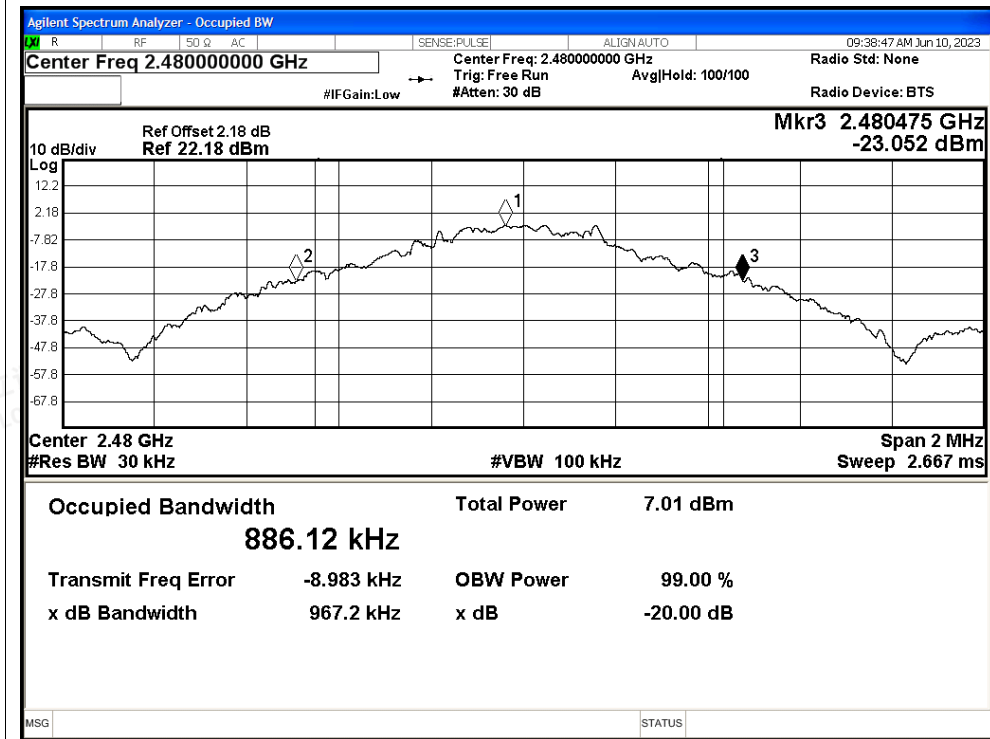
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

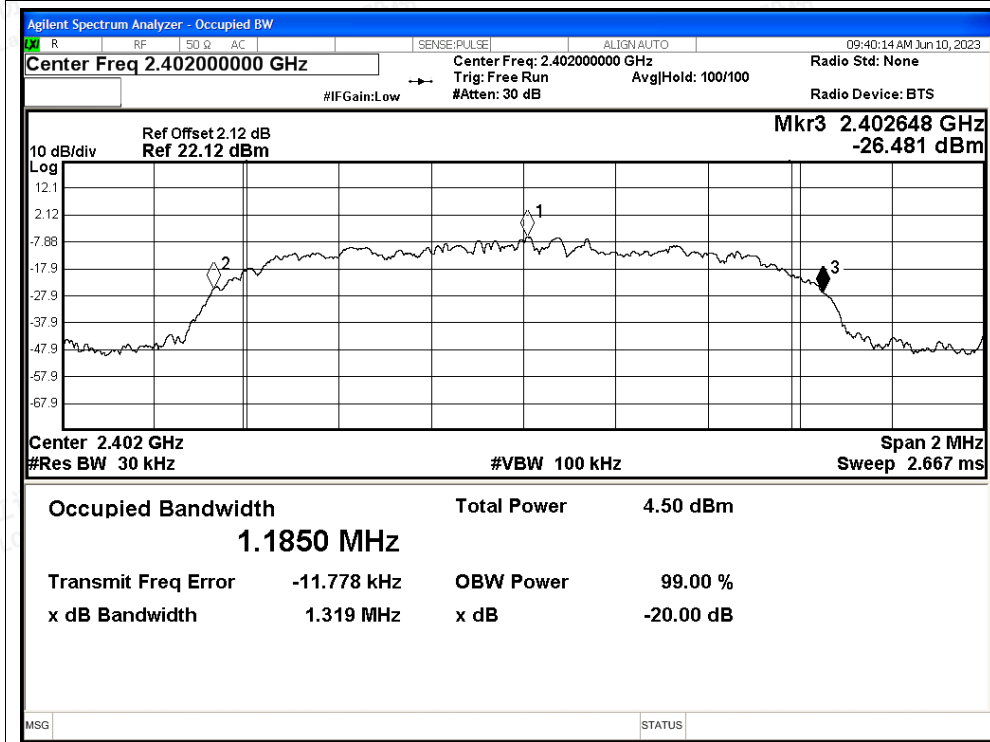
Scan code to check authenticity



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

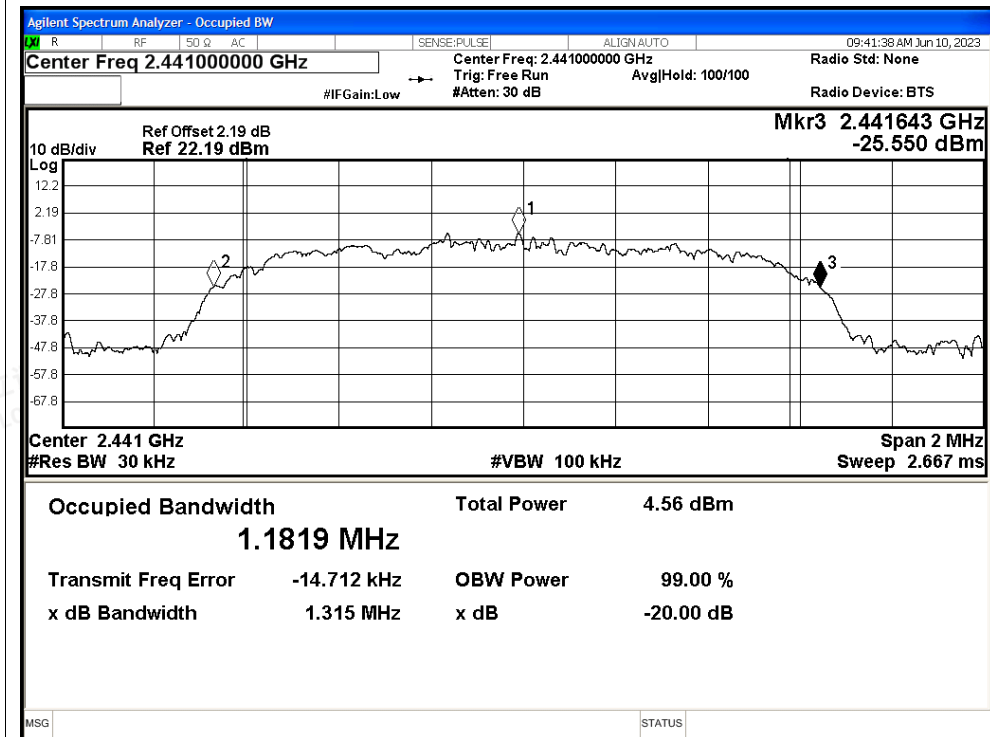
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

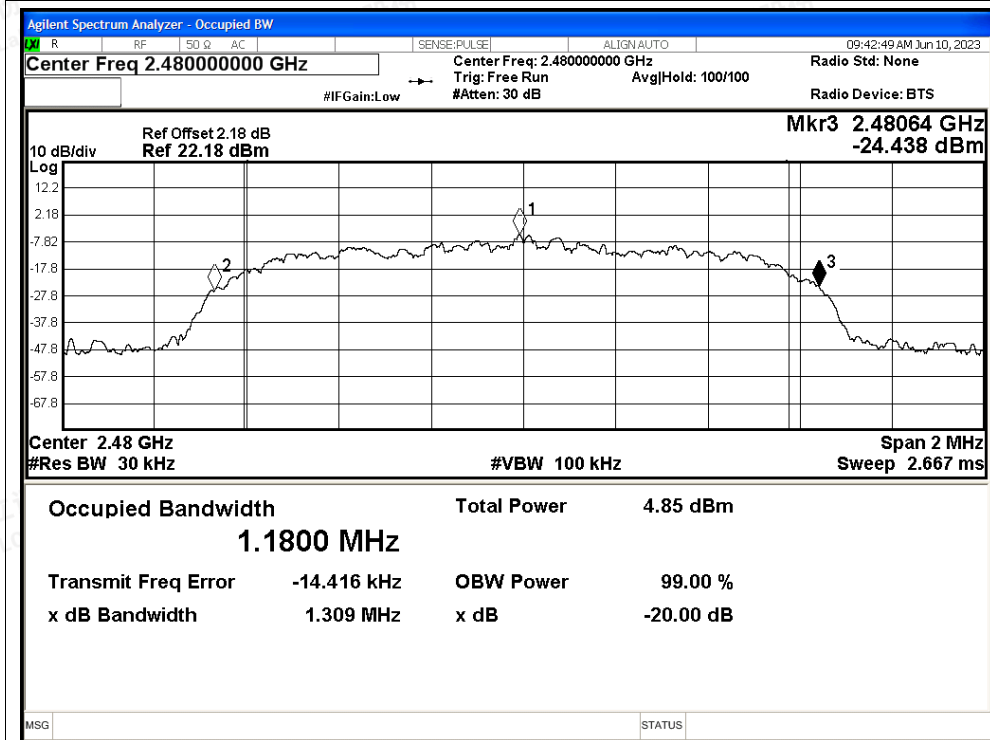
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

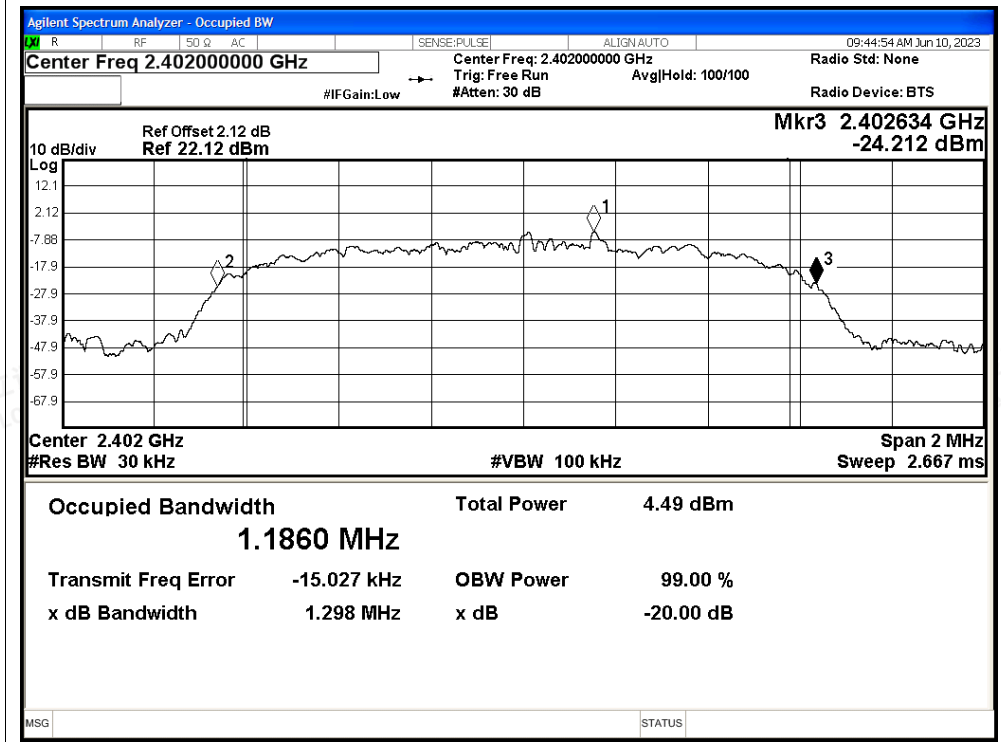


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

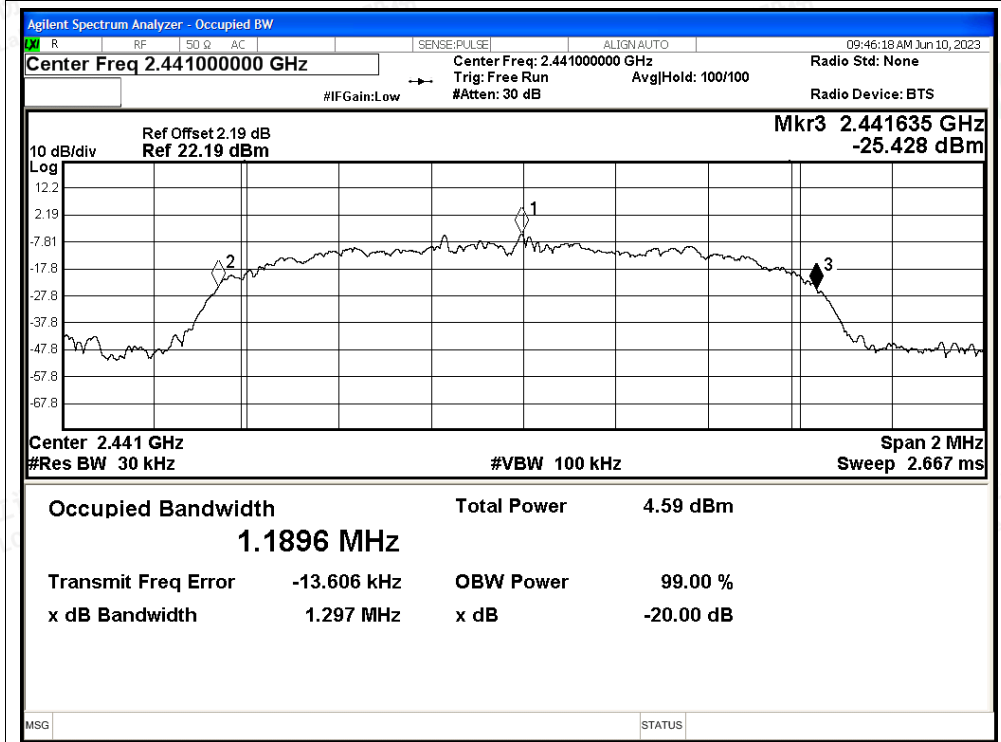


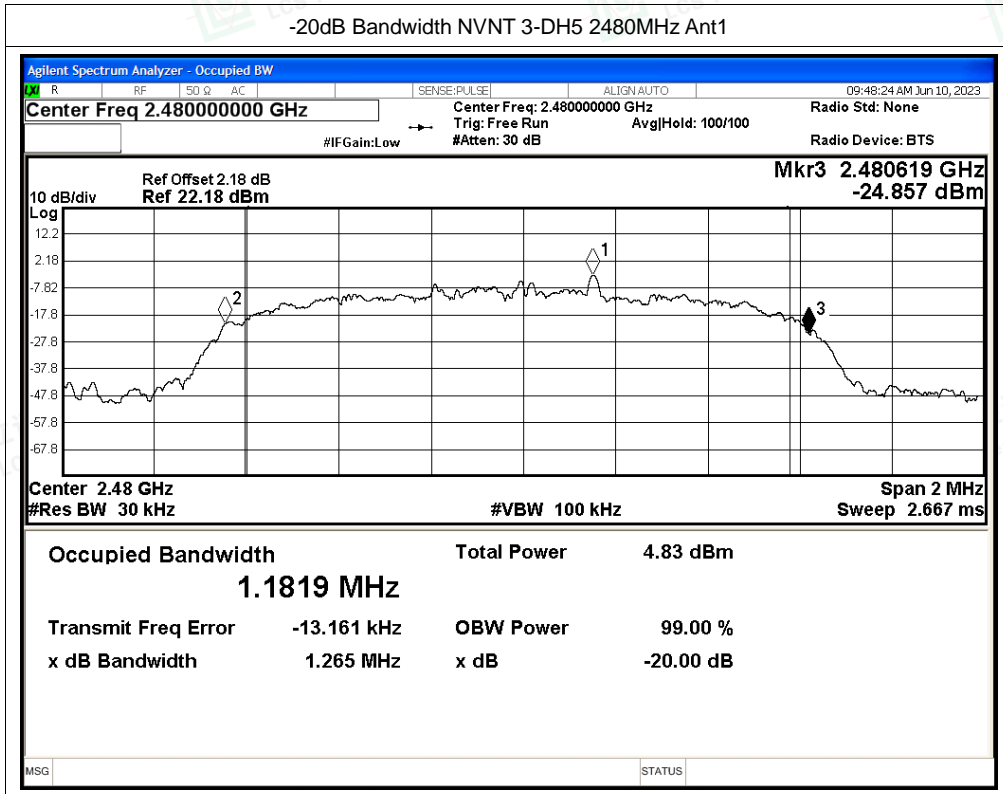


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-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	0.33	21	Pass
NVNT	1-DH5	2441	Ant1	0.54	21	Pass
NVNT	1-DH5	2480	Ant1	0.48	21	Pass
NVNT	2-DH5	2402	Ant1	0.12	21	Pass
NVNT	2-DH5	2441	Ant1	0.3	21	Pass
NVNT	2-DH5	2480	Ant1	0.2	21	Pass
NVNT	3-DH5	2402	Ant1	0.2	21	Pass
NVNT	3-DH5	2441	Ant1	0.38	21	Pass
NVNT	3-DH5	2480	Ant1	0.26	21	Pass



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

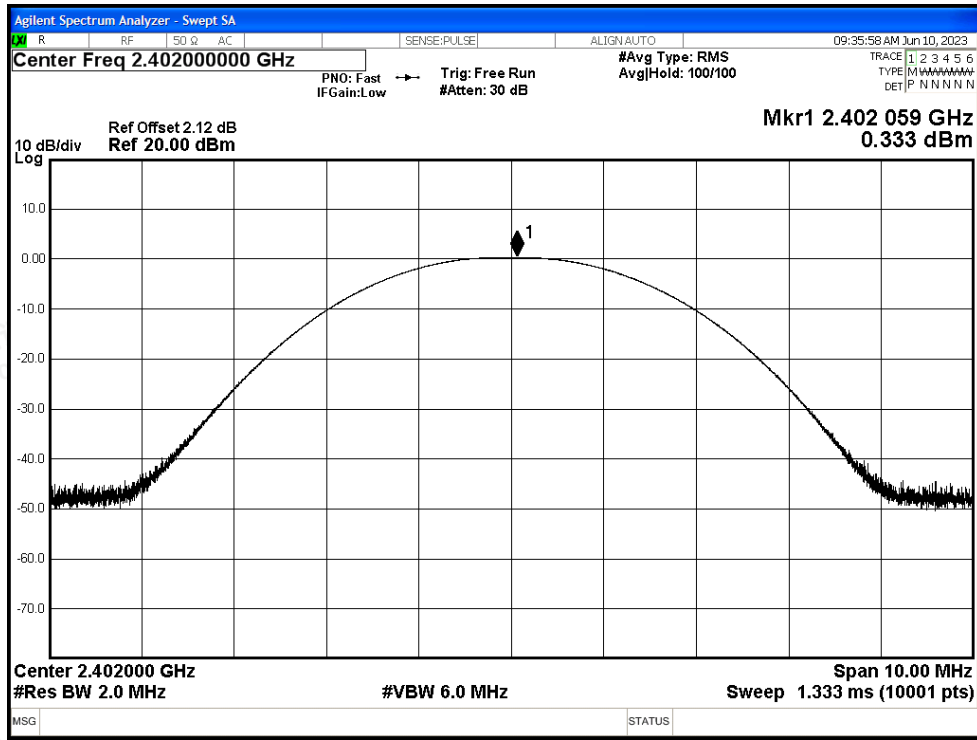
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

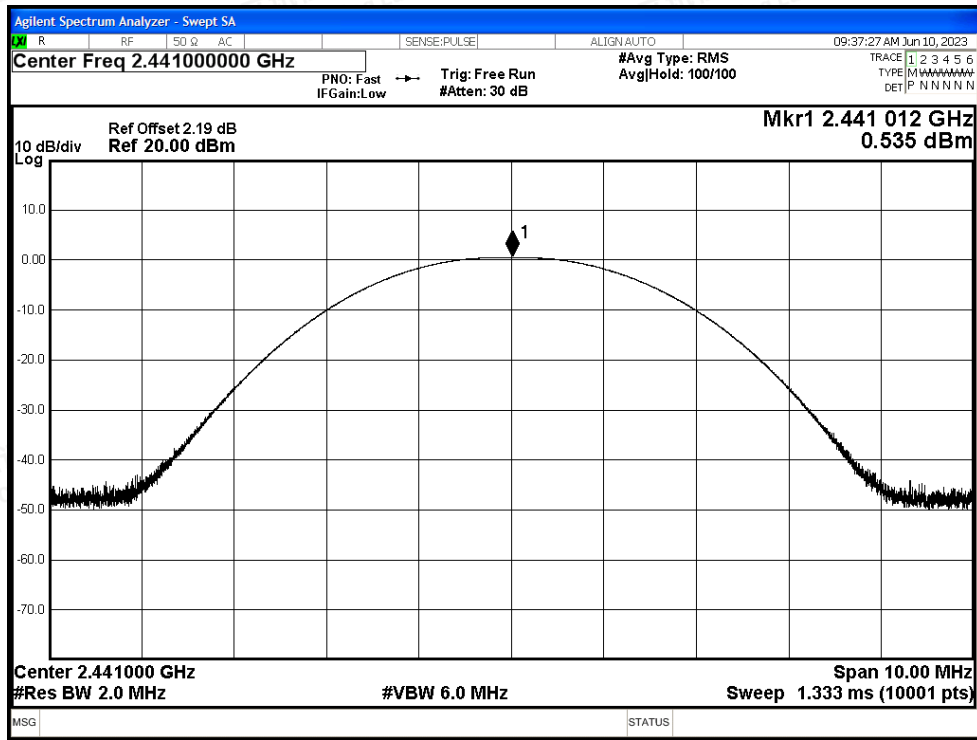


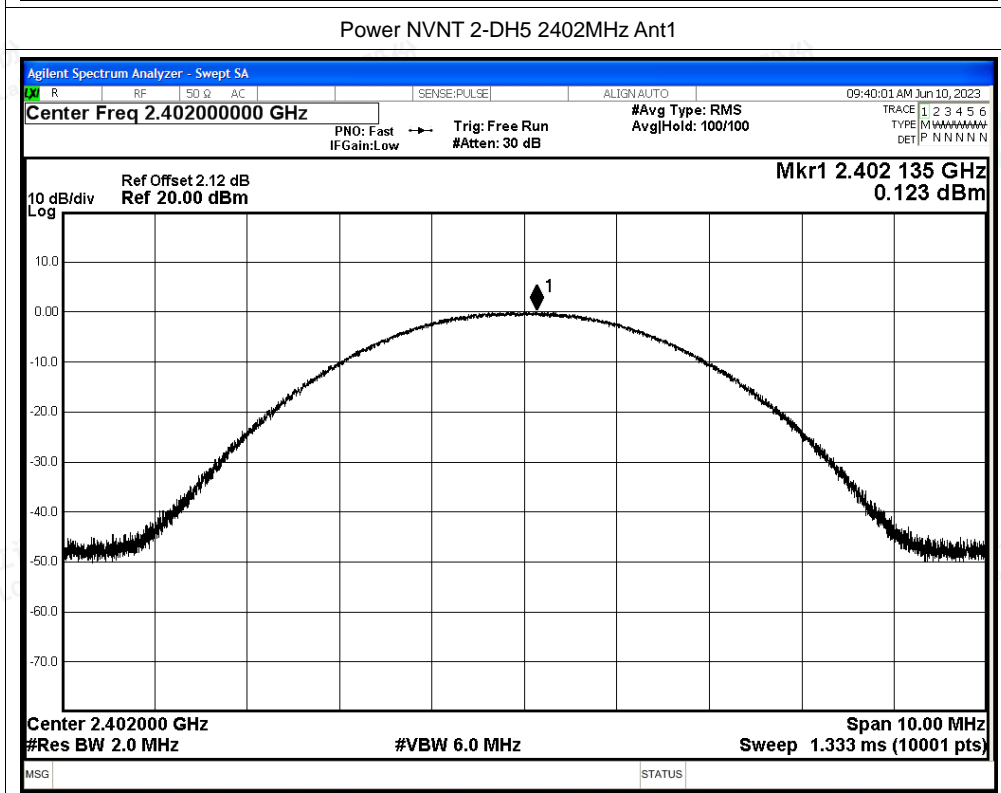
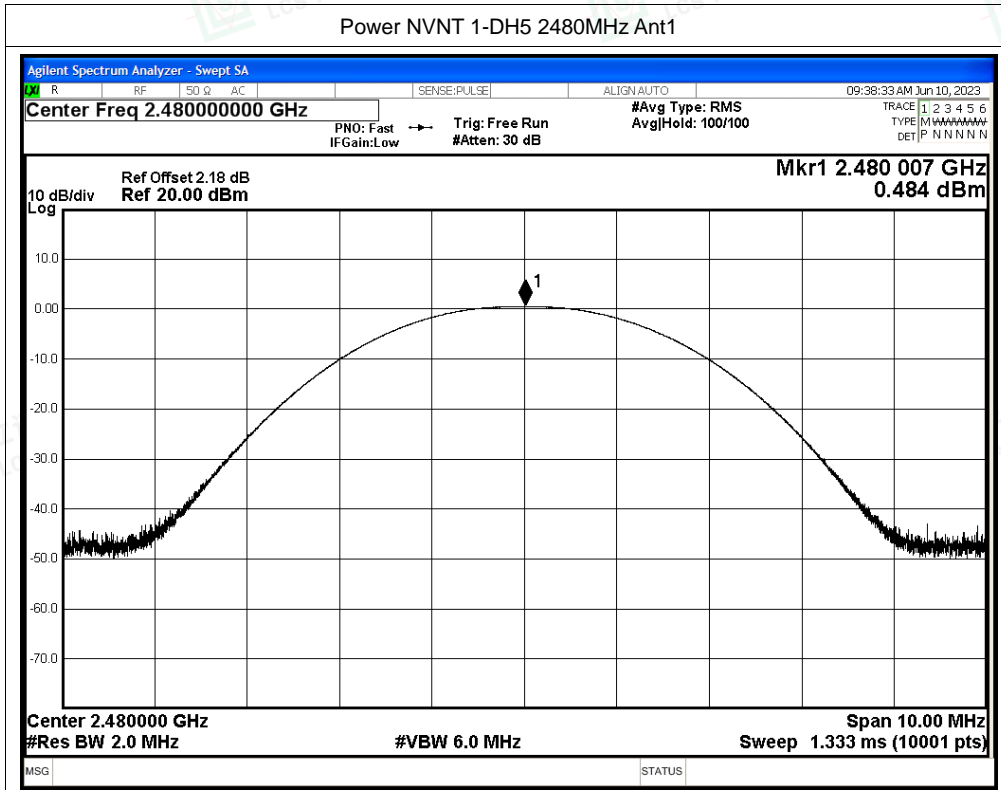
Test Graphs

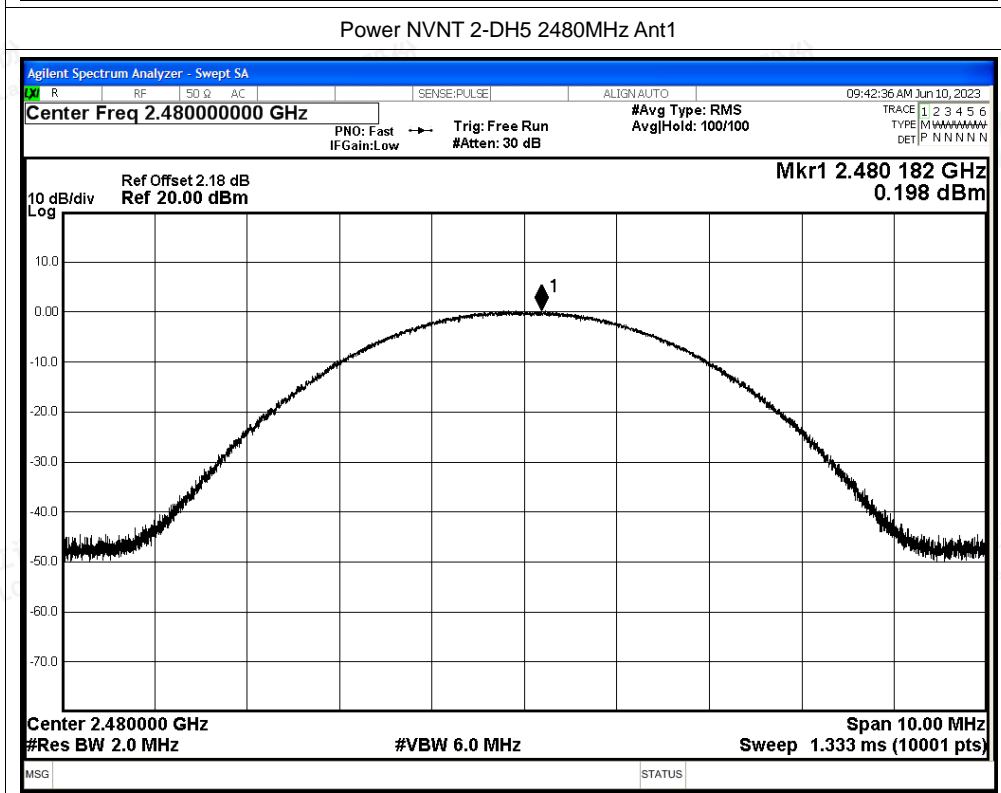
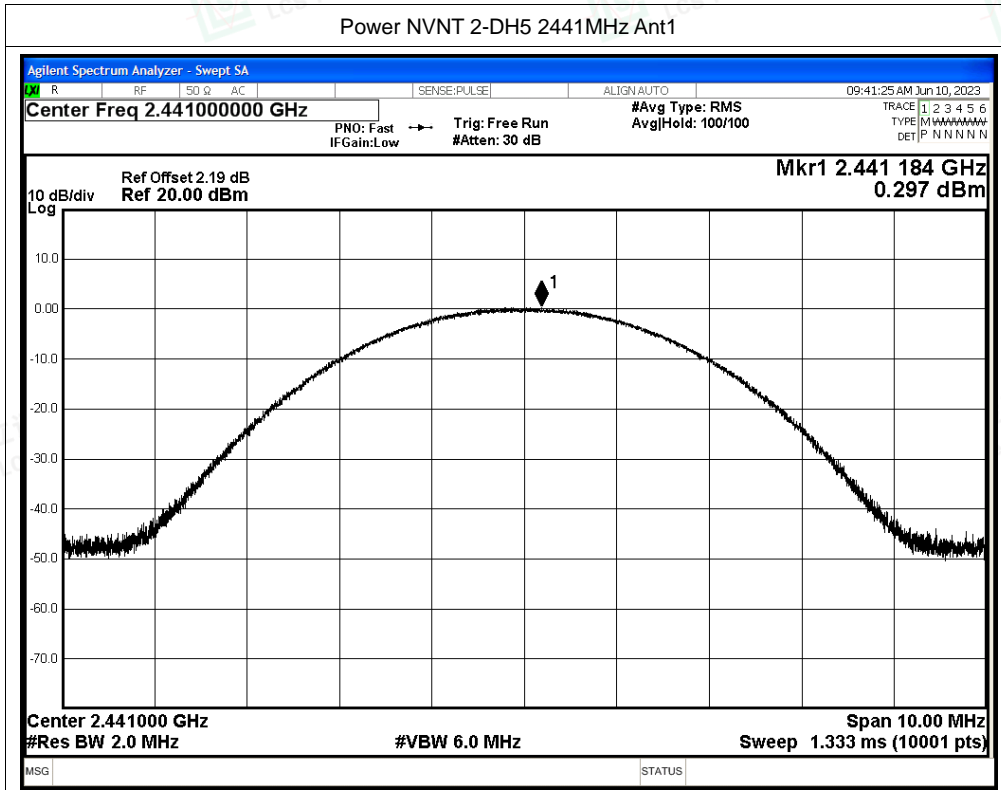
Power NVNT 1-DH5 2402MHz Ant1

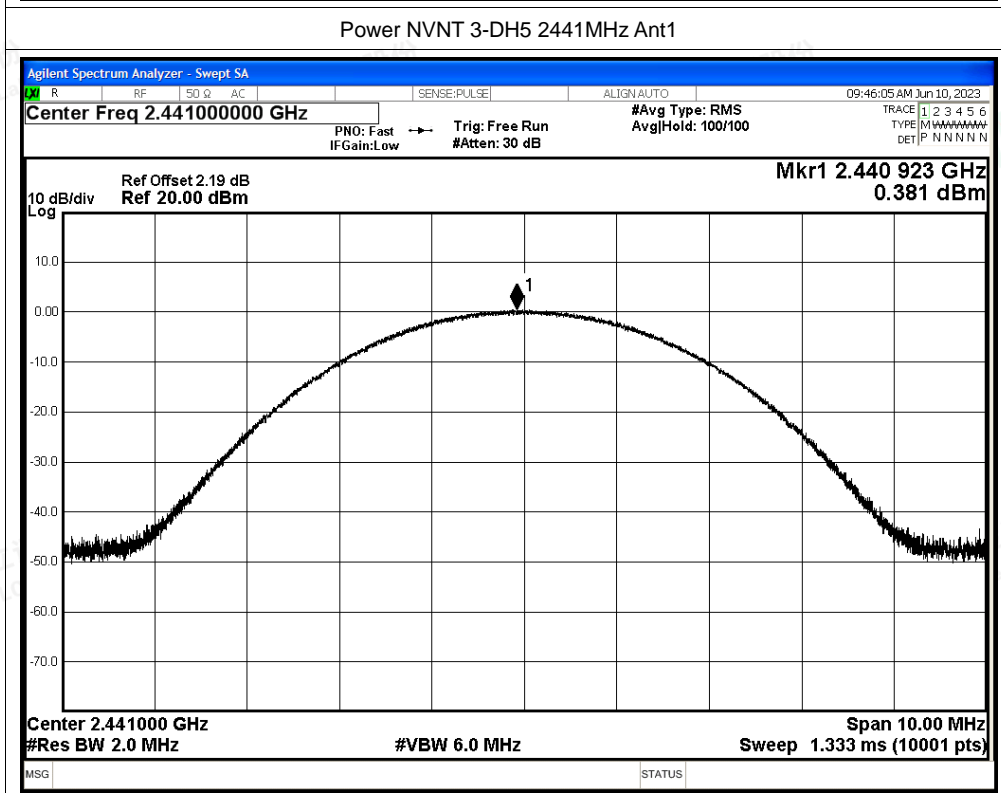
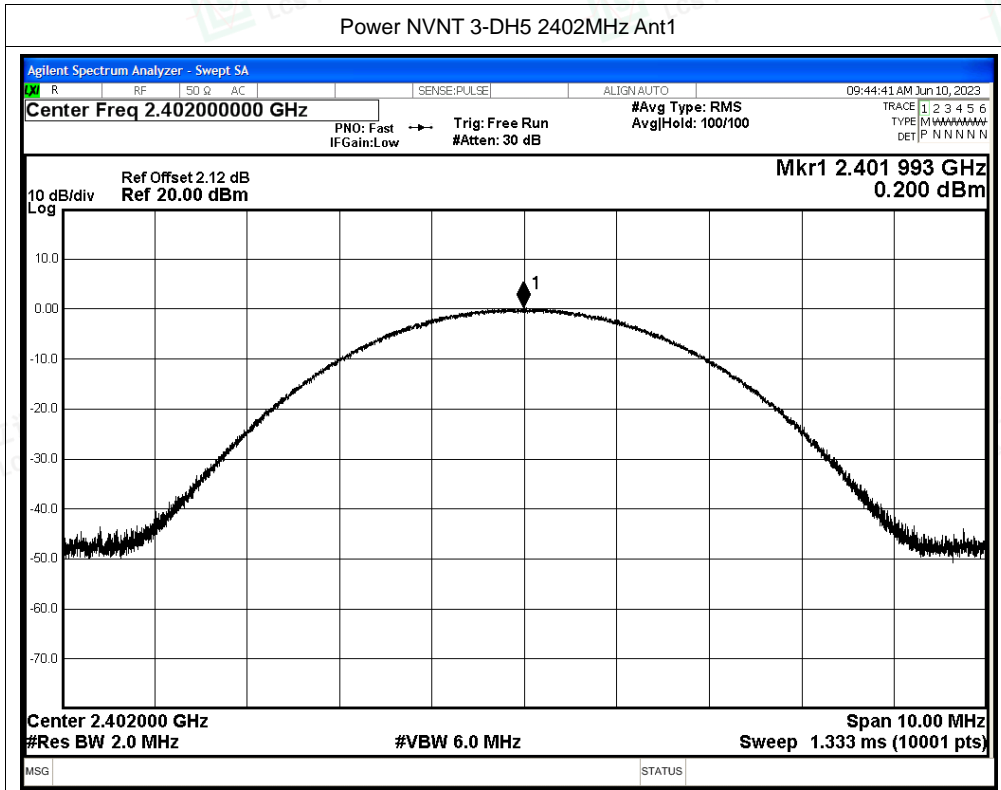


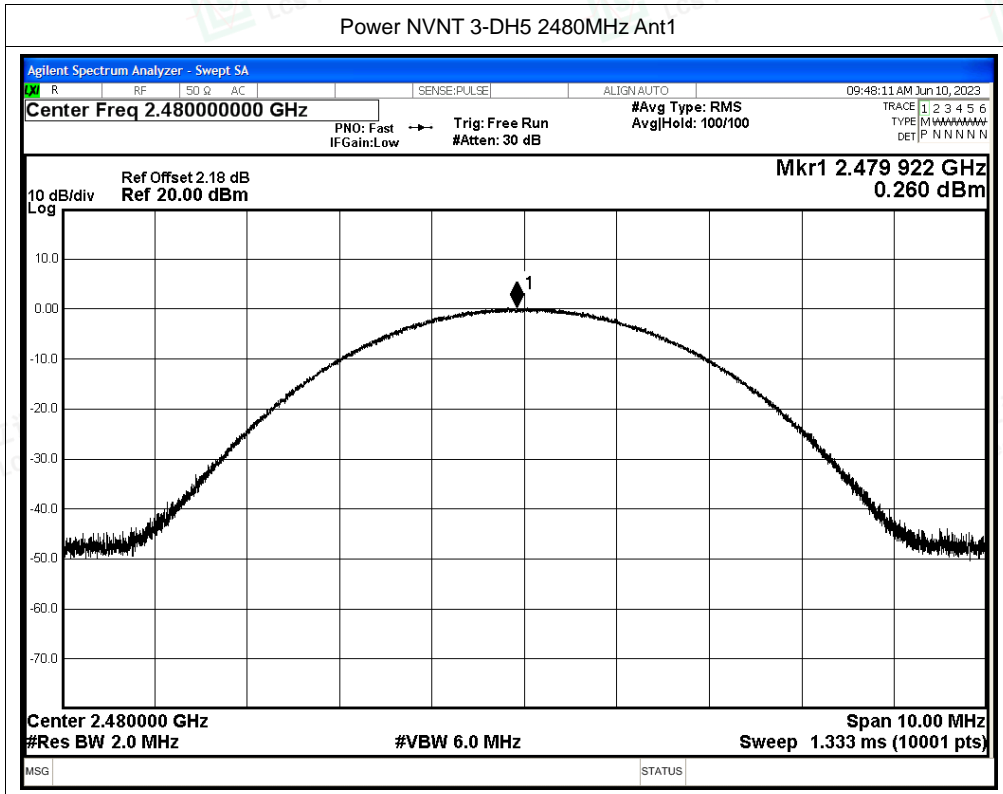
Power NVNT 1-DH5 2441MHz Ant1













A.3 Carrier Frequencies Separation

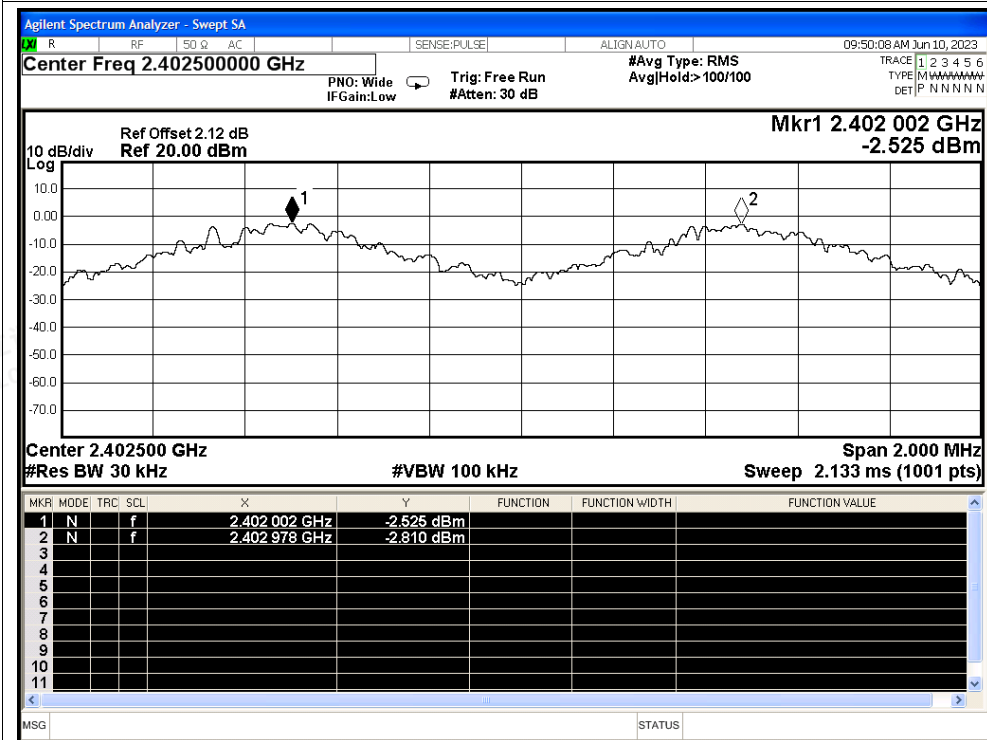
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.002	2402.978	0.976	0.673	Pass
NVNT	2-DH5	Ant1	2401.826	2403	1.174	0.879	Pass
NVNT	3-DH5	Ant1	2401.934	2402.992	1.058	0.865	Pass



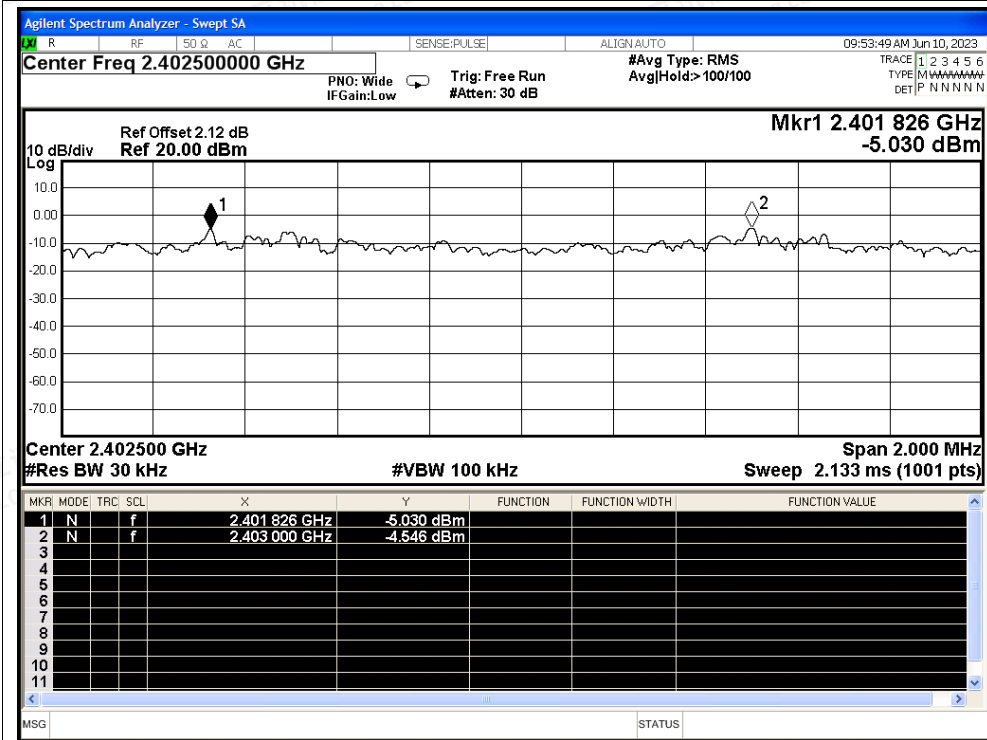


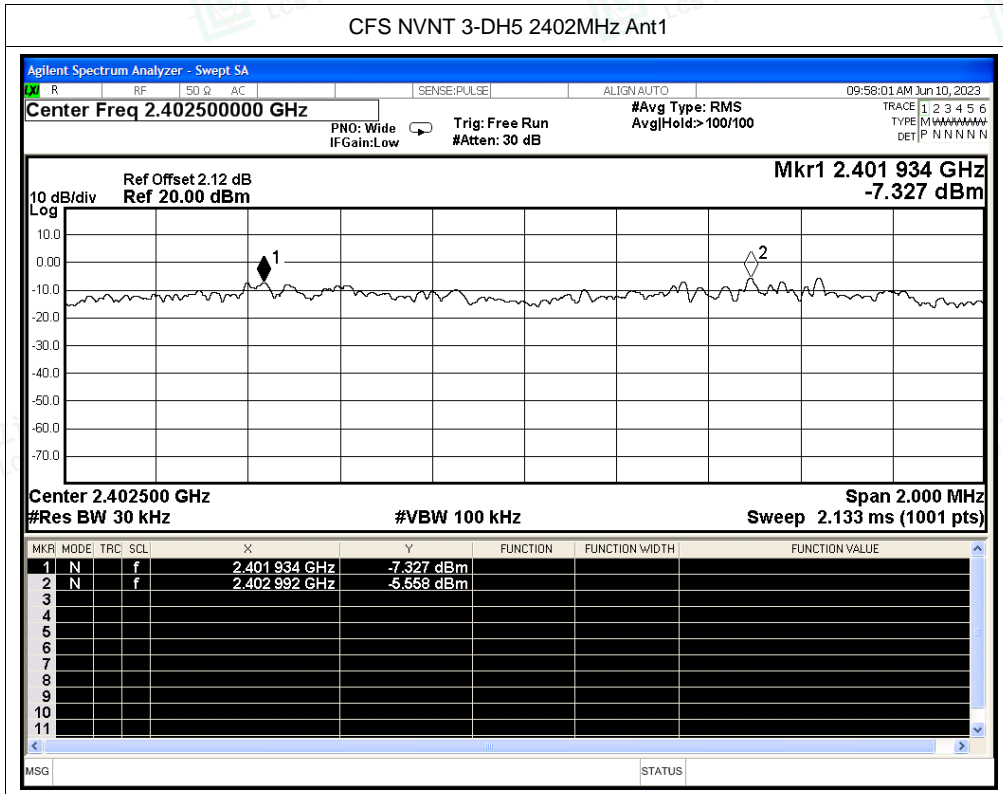
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

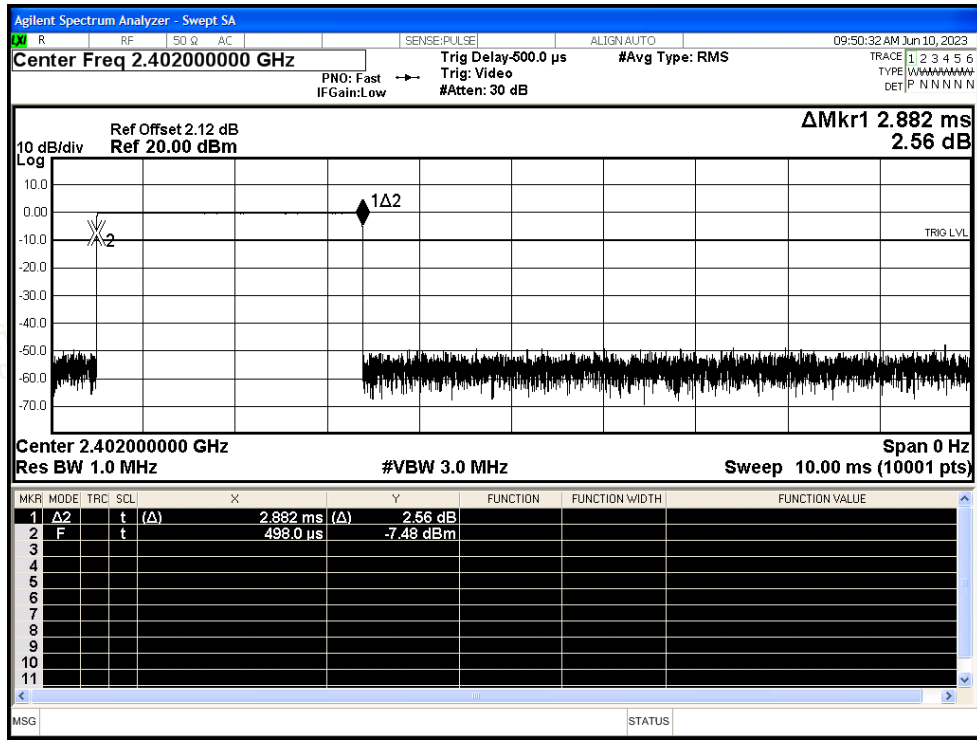
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	317.02	110	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	313.92	109	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	291.587	101	31600	400	Pass



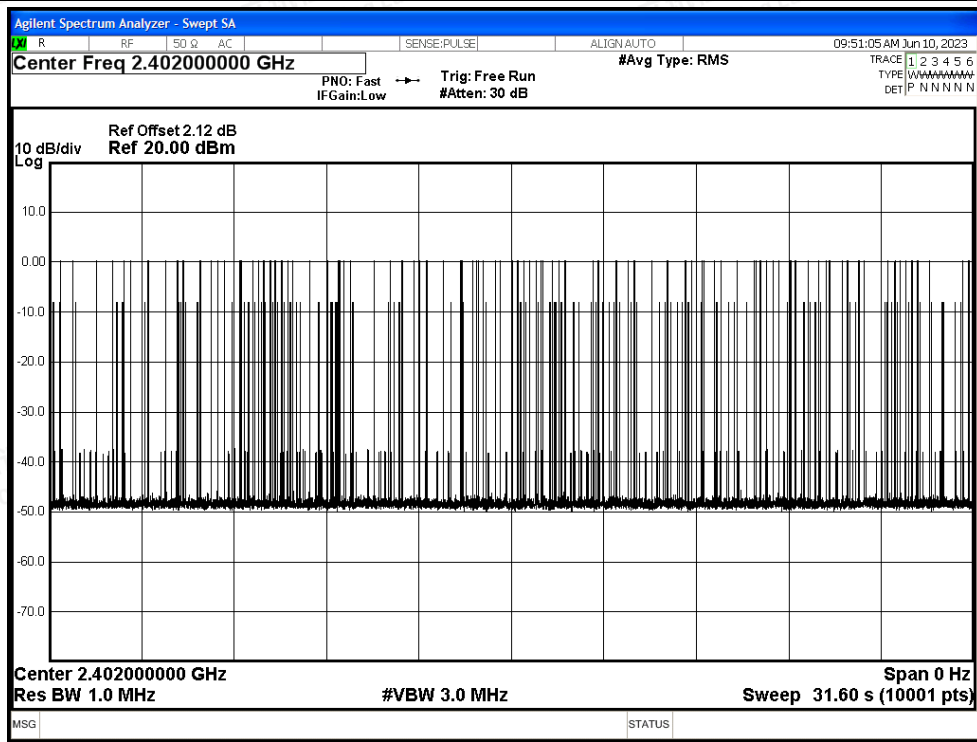


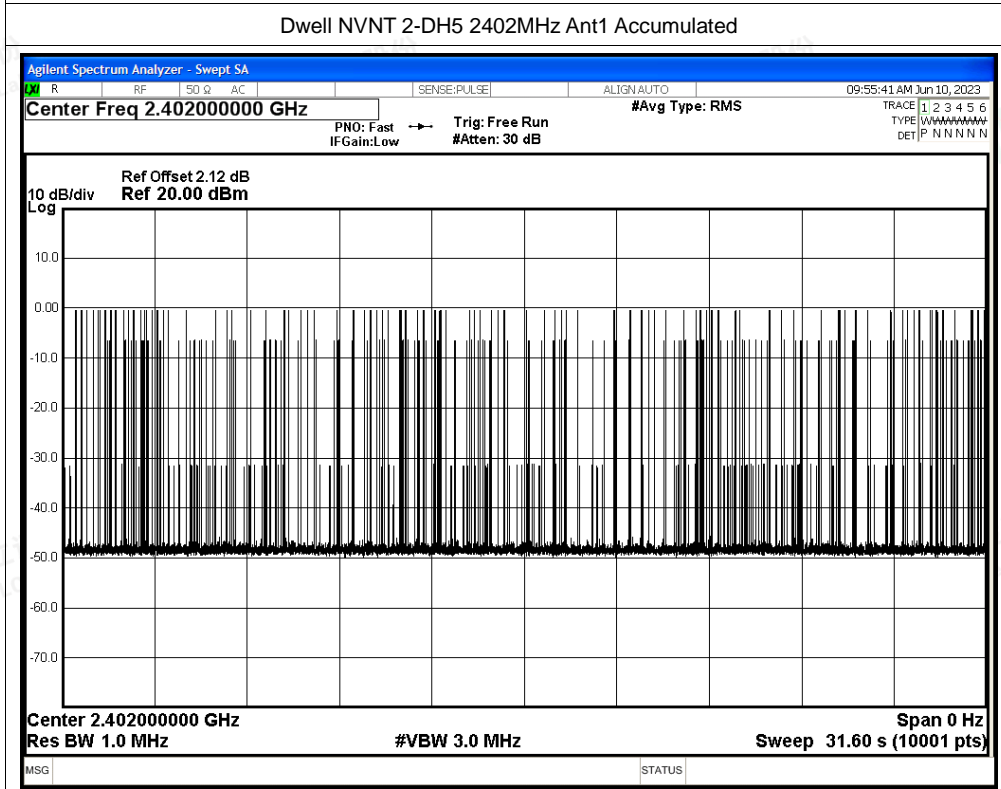
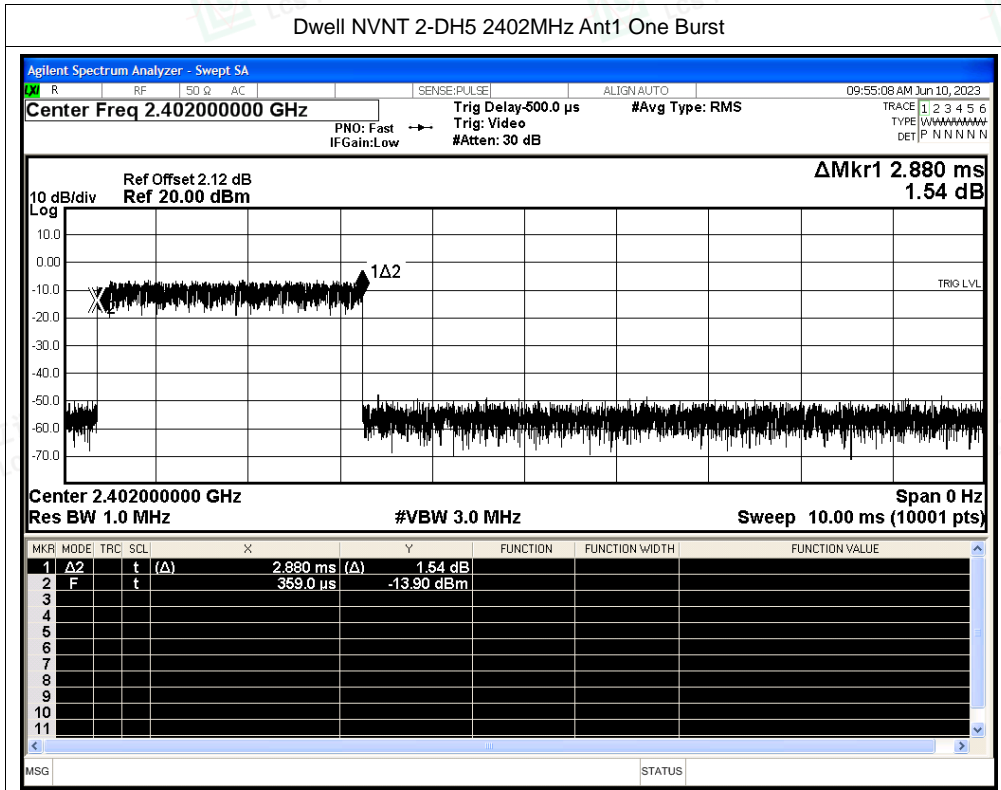
Test Graphs

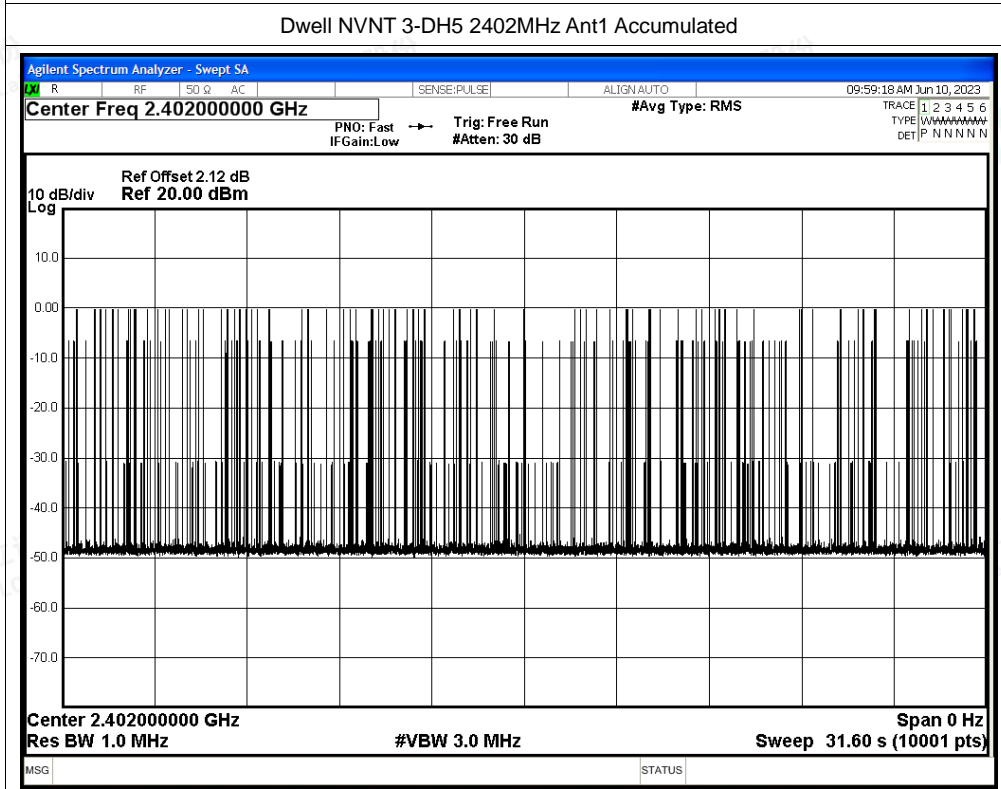
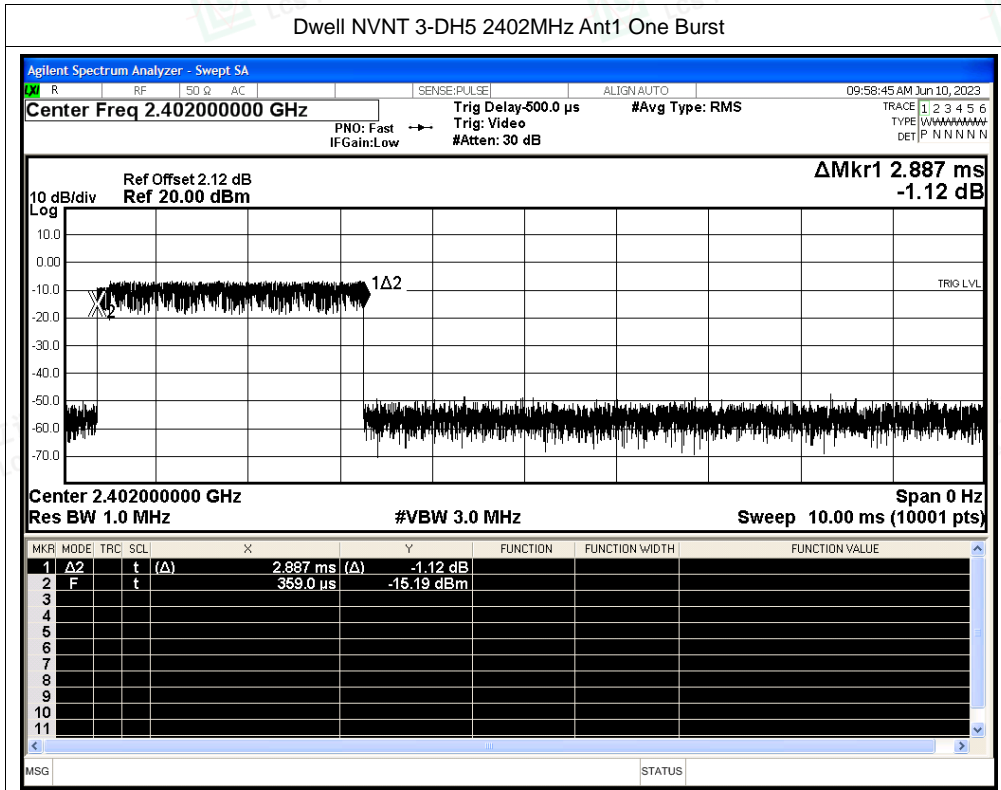
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated









A.5 Number of Hopping Channel

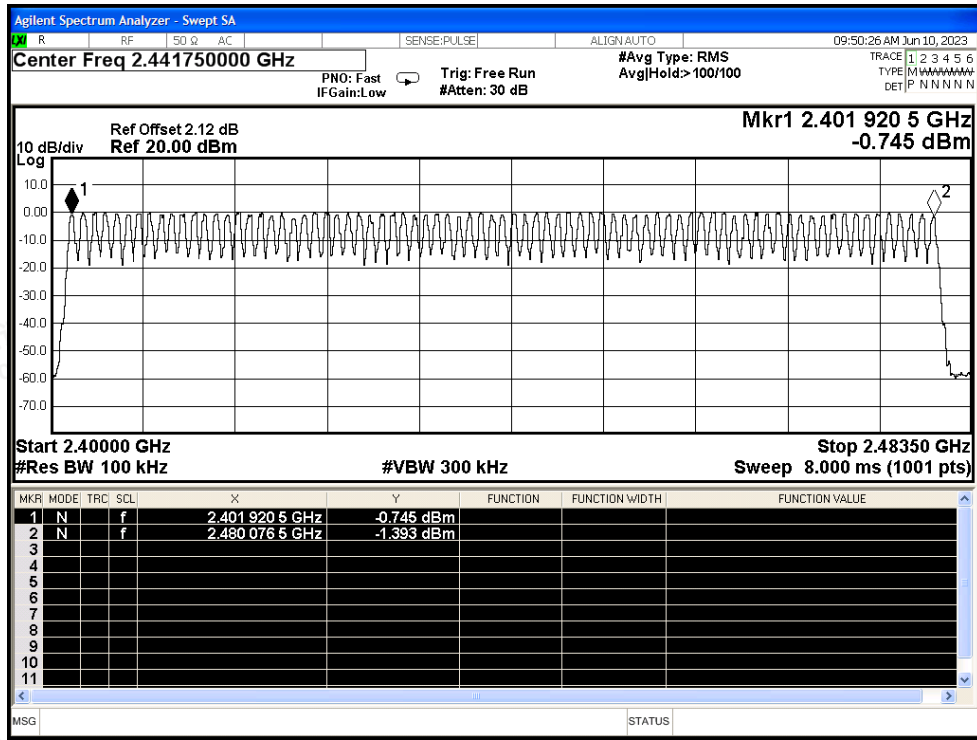
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



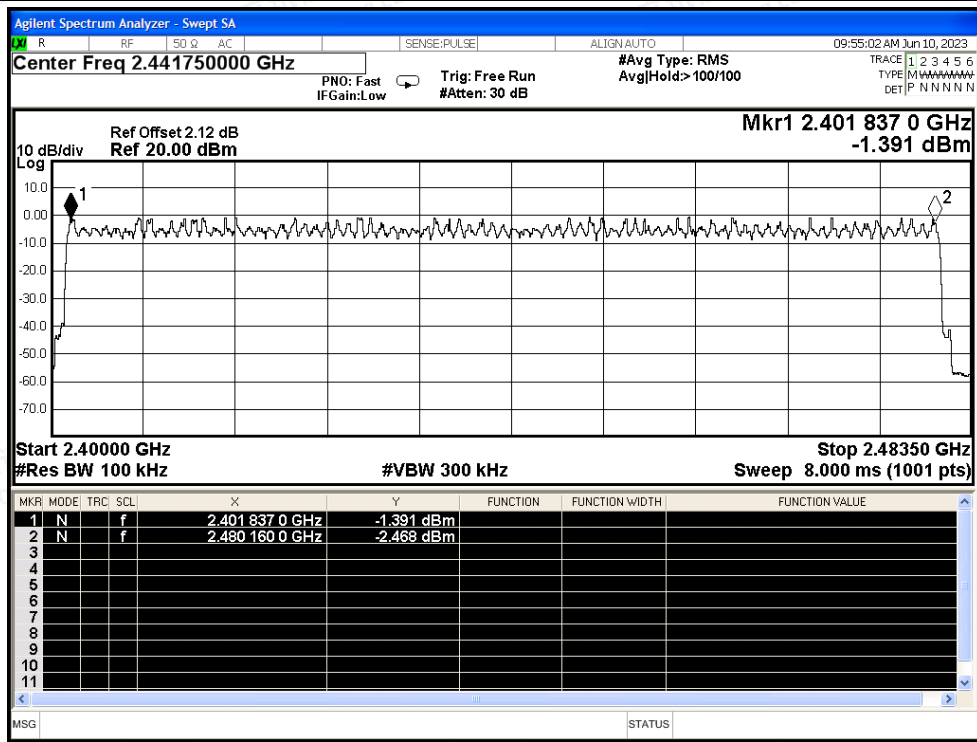


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

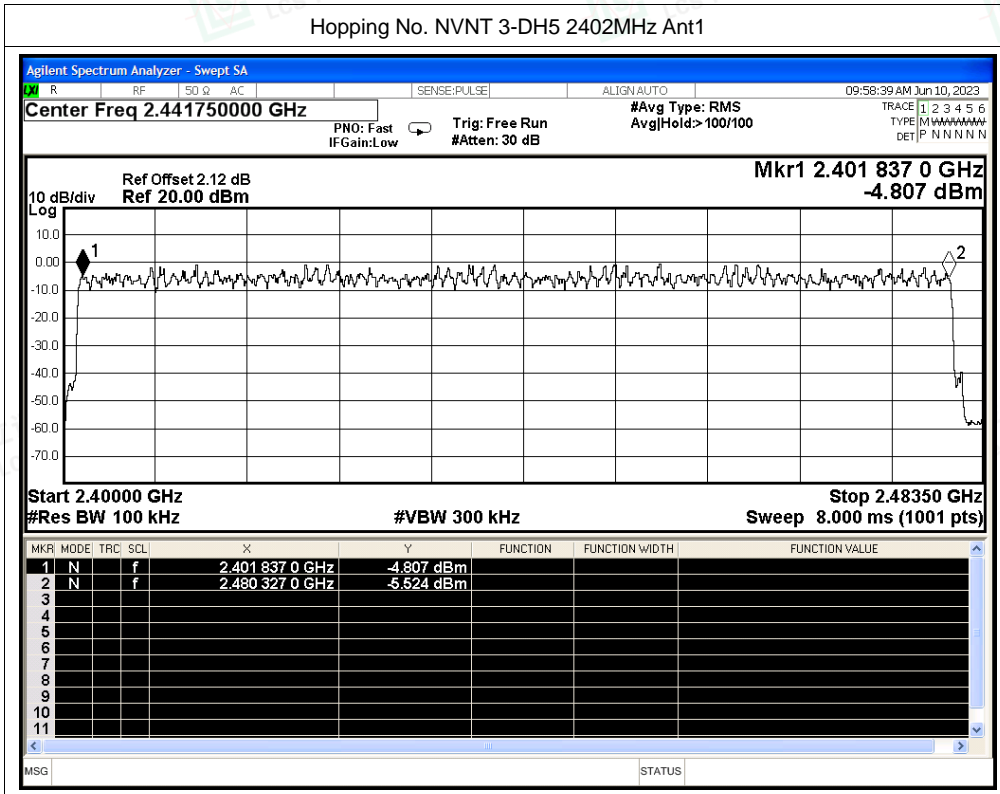


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

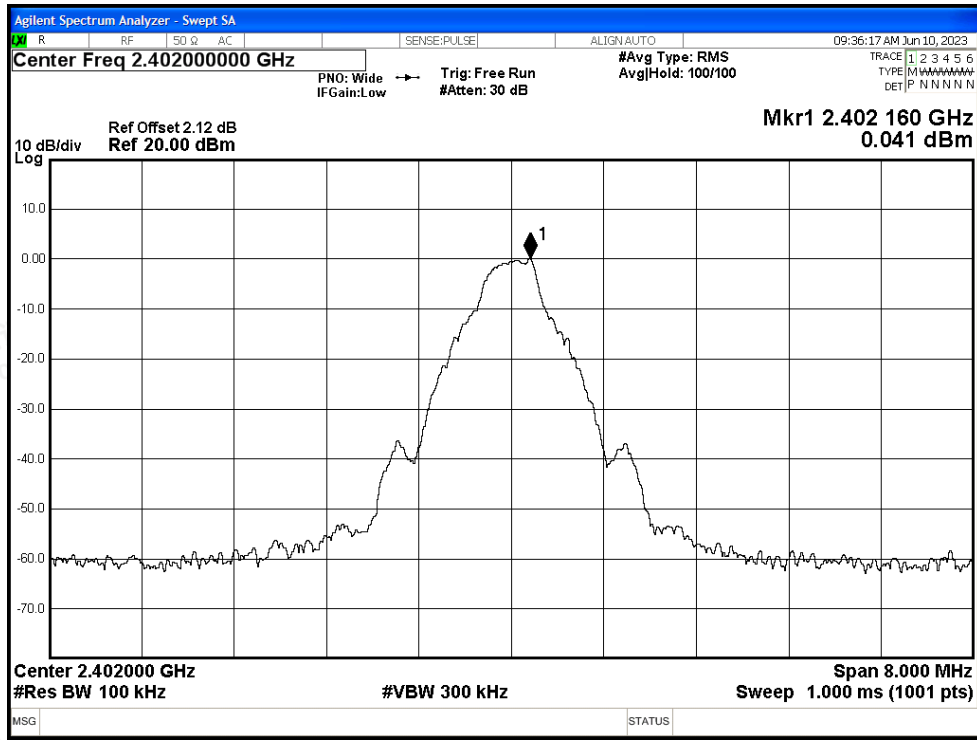
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.28	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.16	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.92	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.51	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.64	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.58	-20	Pass



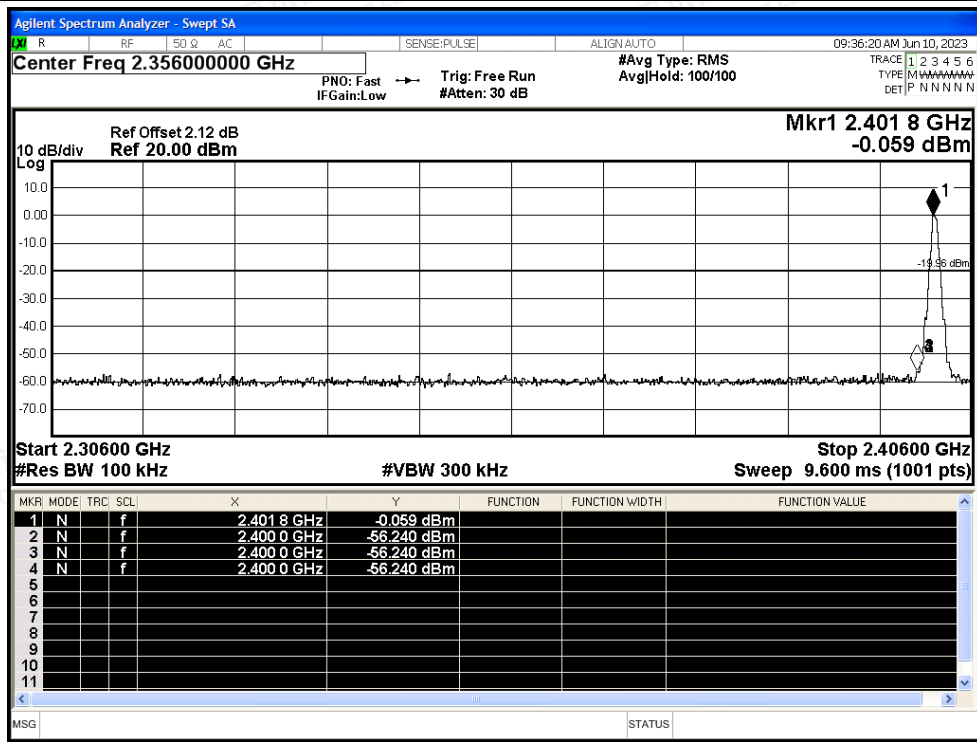


Test Graphs

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

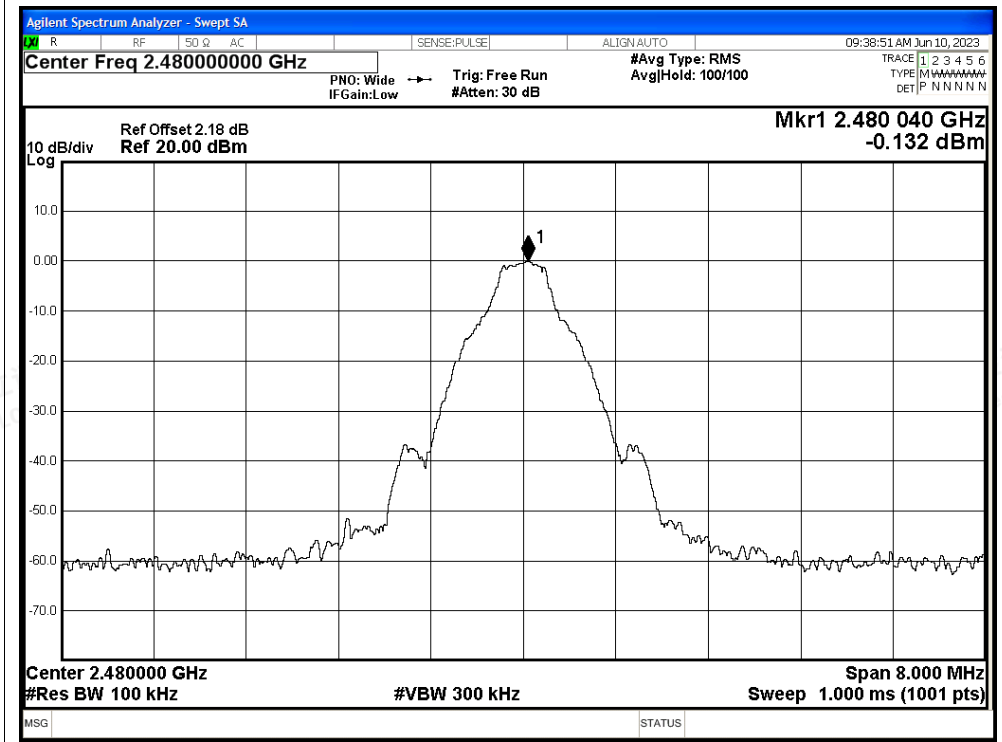


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

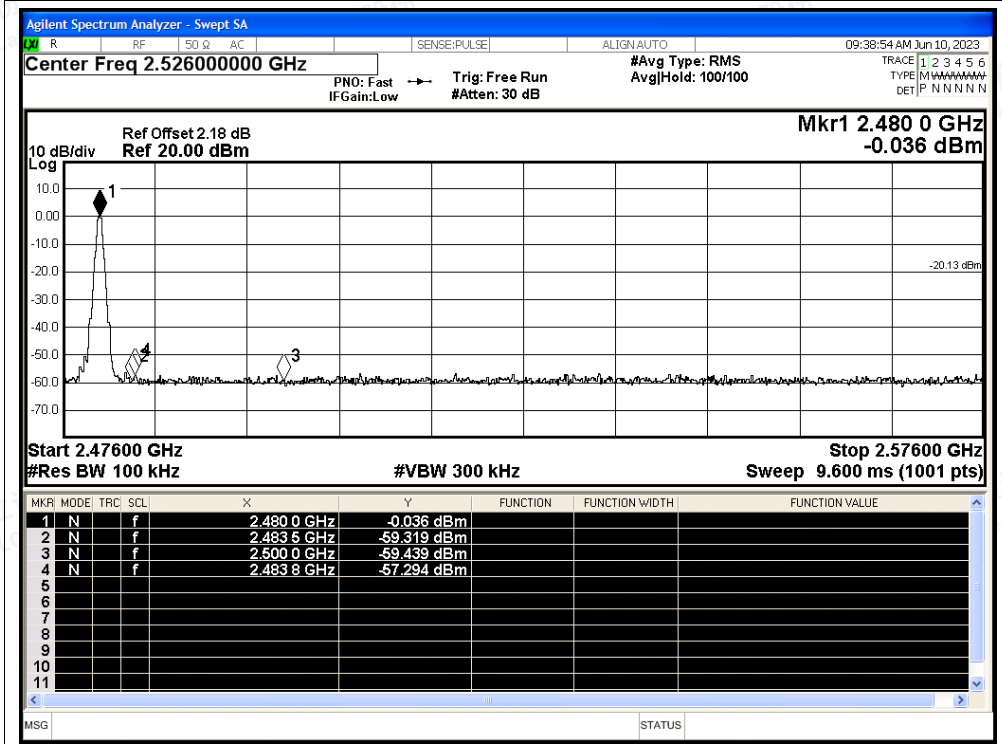




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

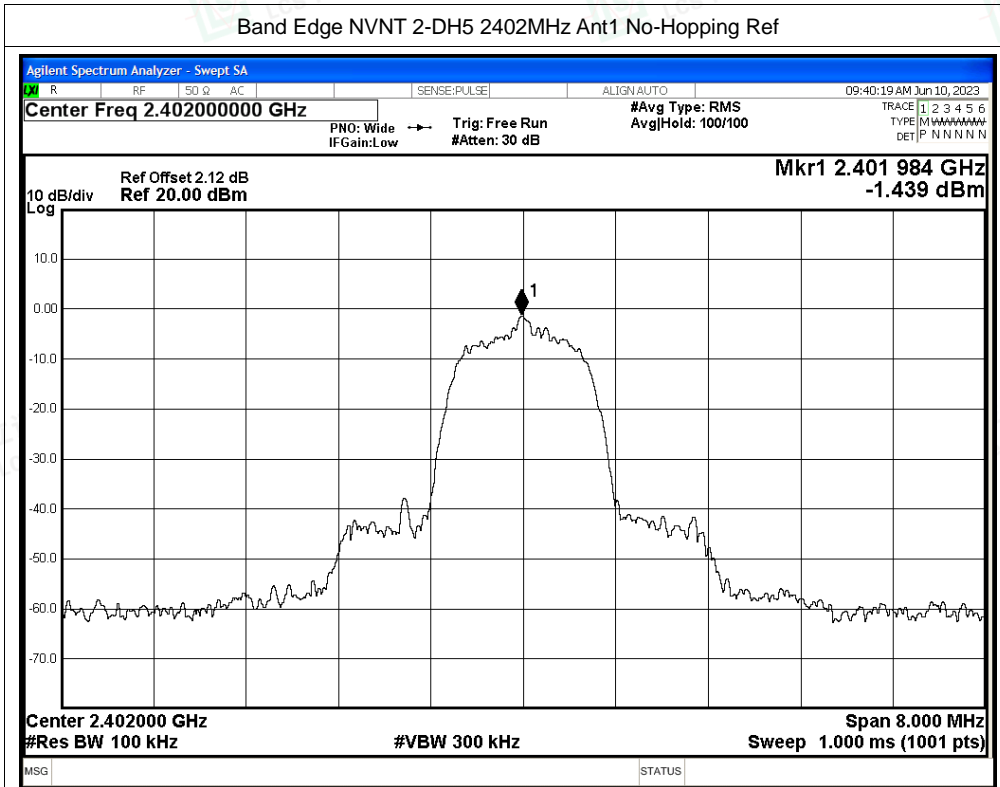


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

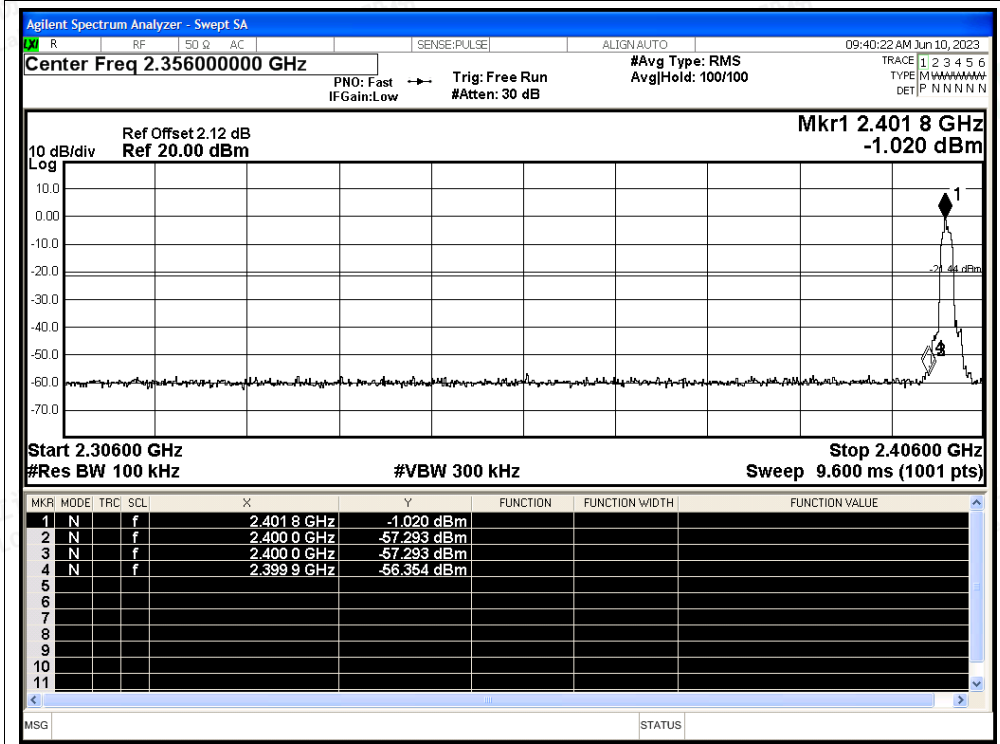




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

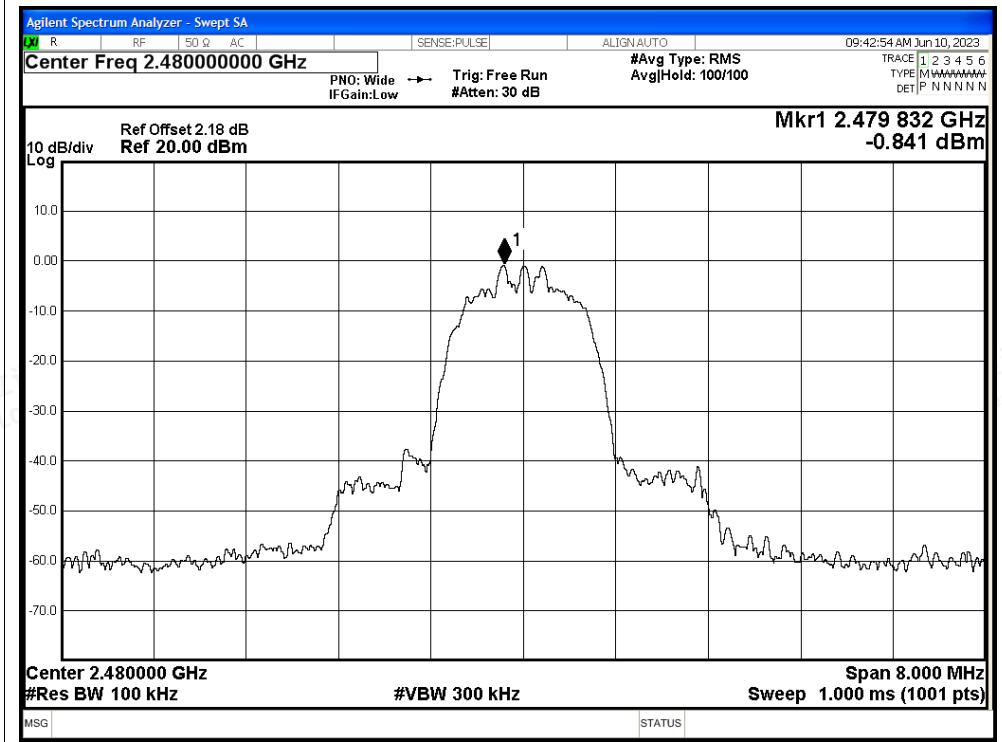


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

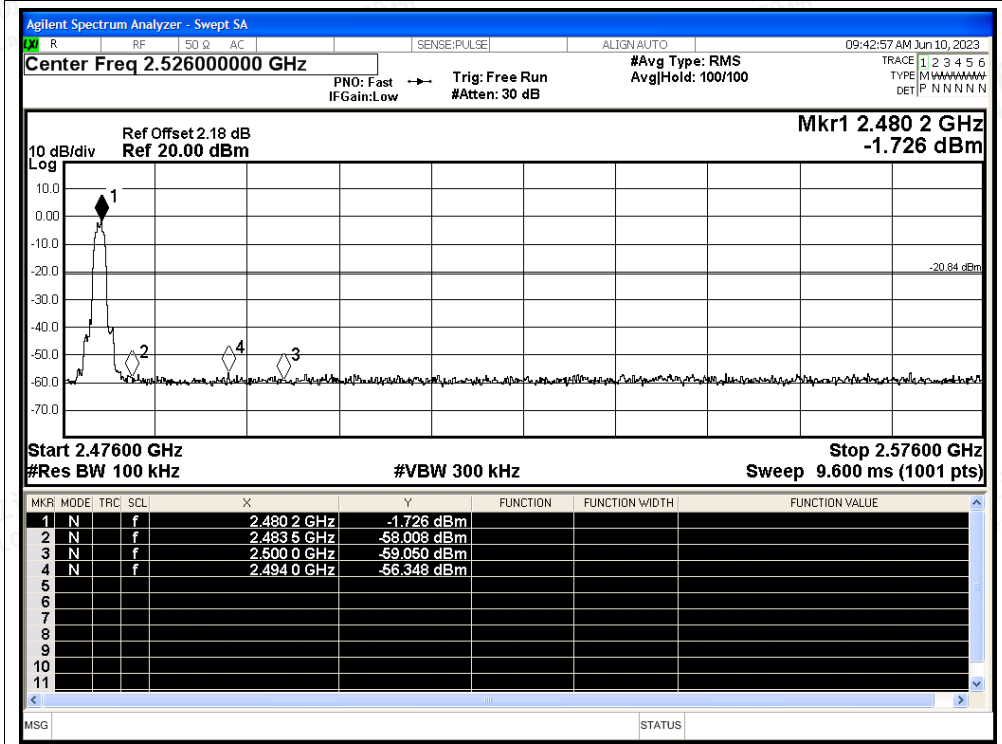




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

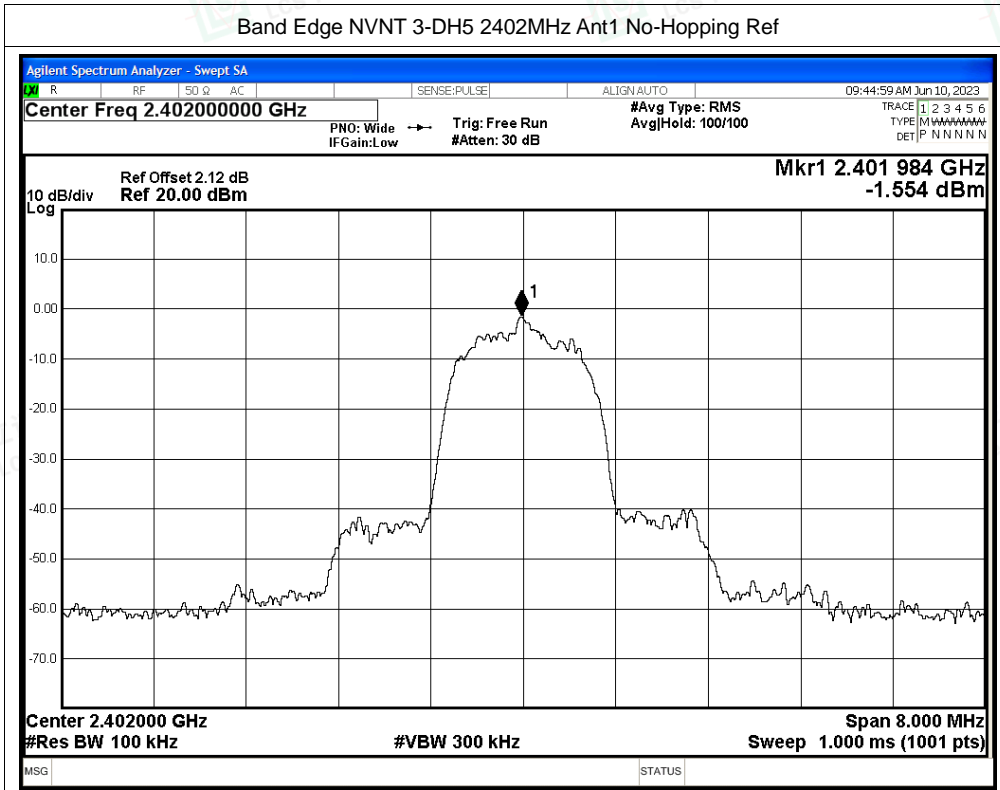


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

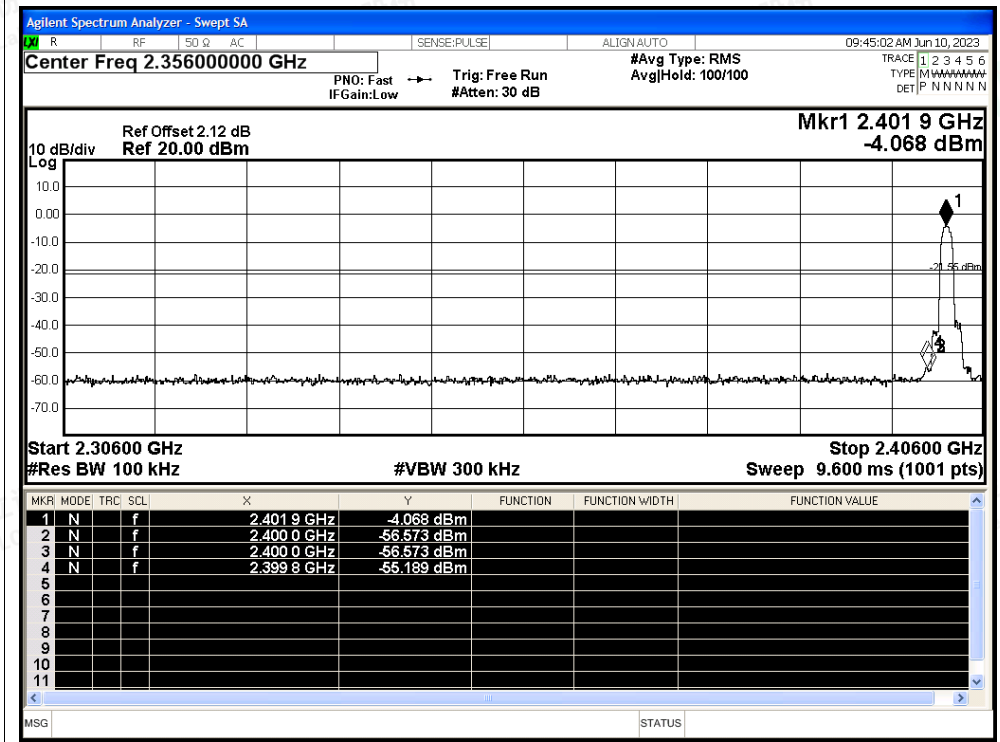




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

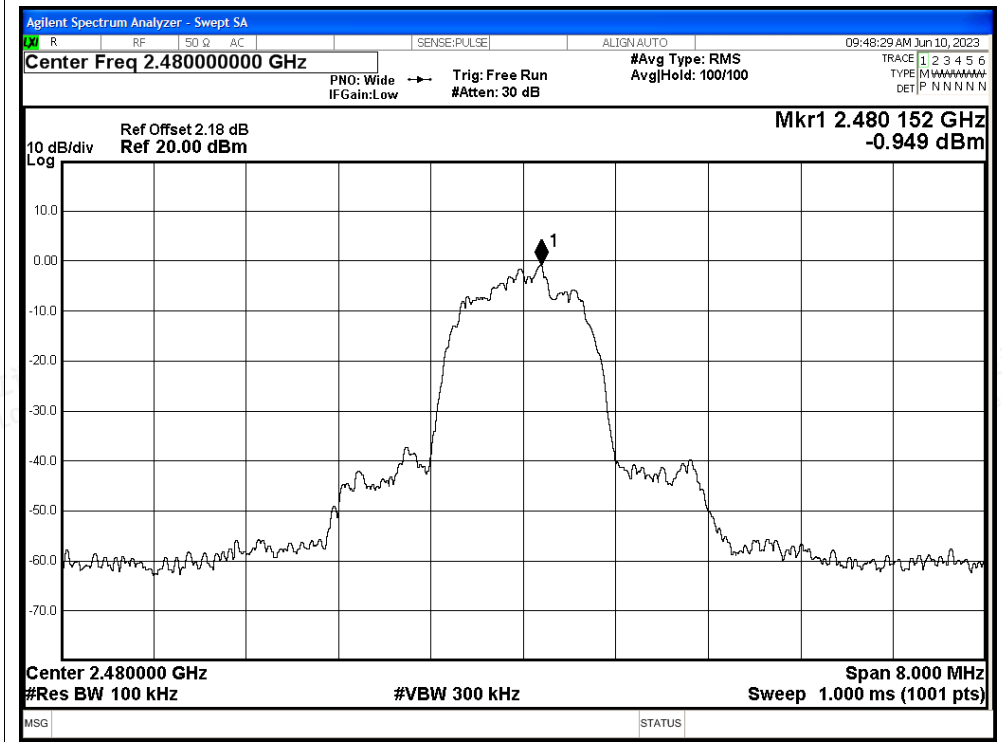


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

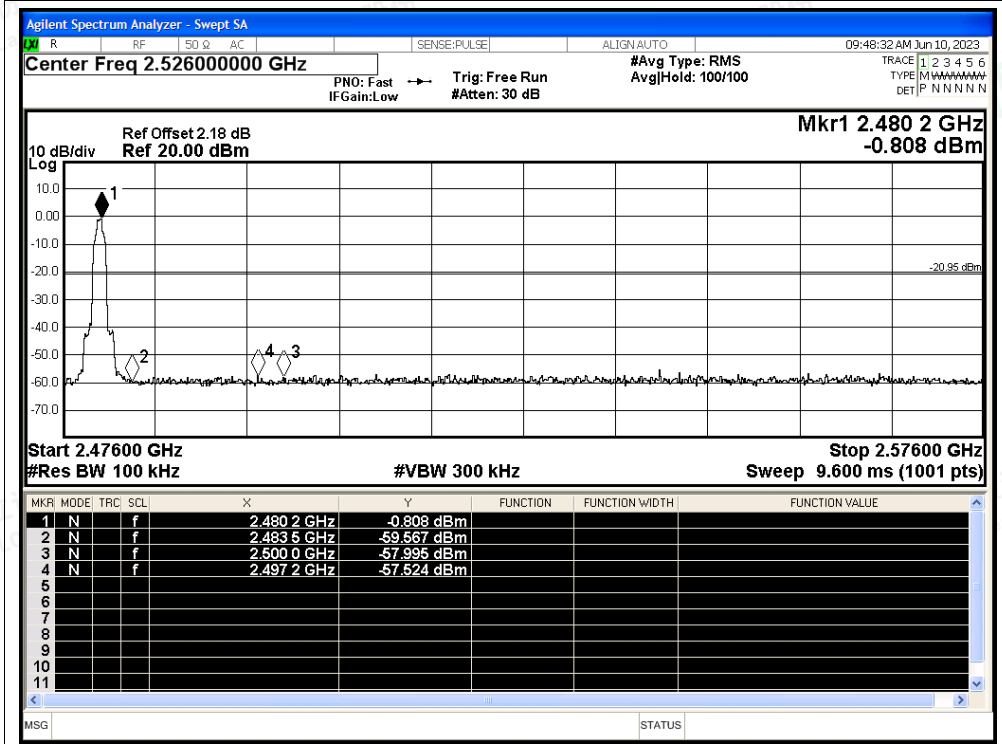




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

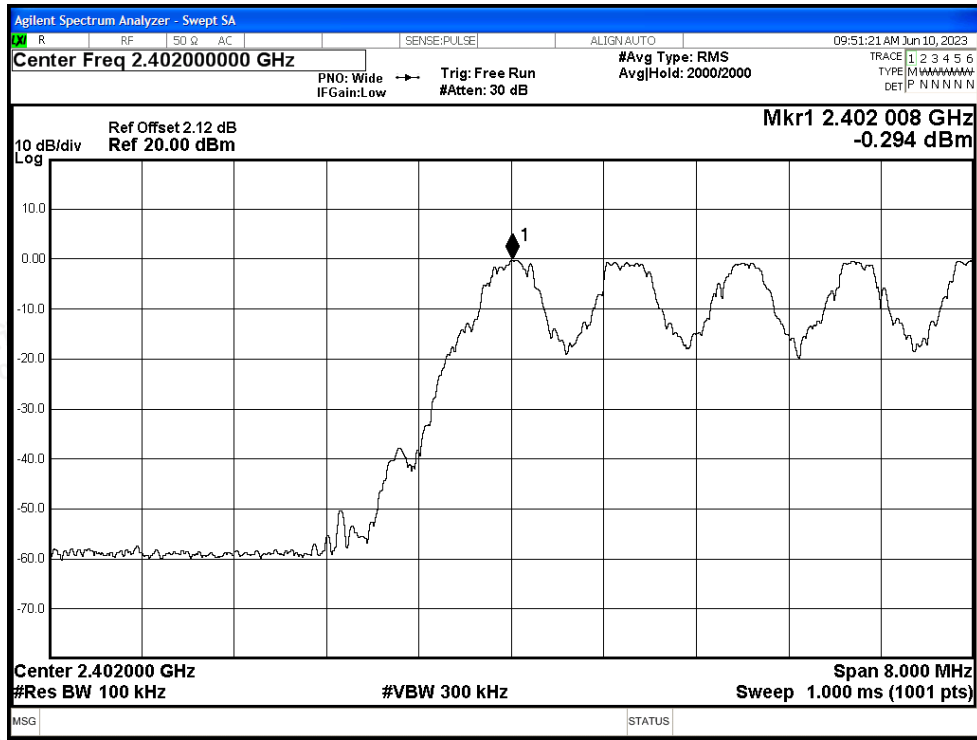
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.2	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.33	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.4	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.15	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.57	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.66	-20	Pass



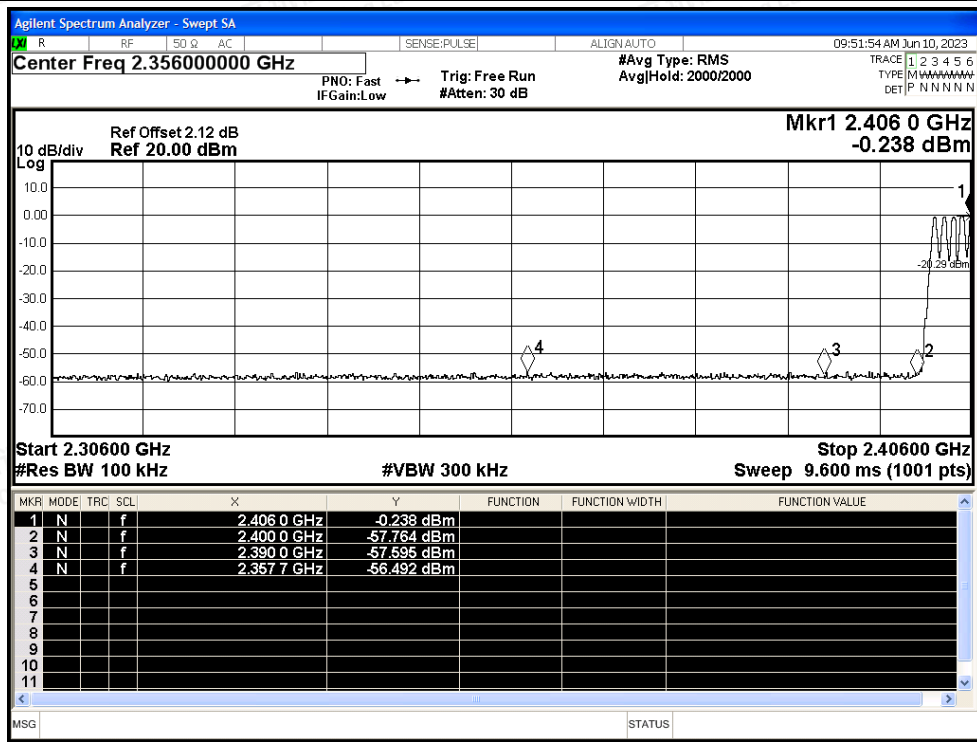


Test Graphs

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

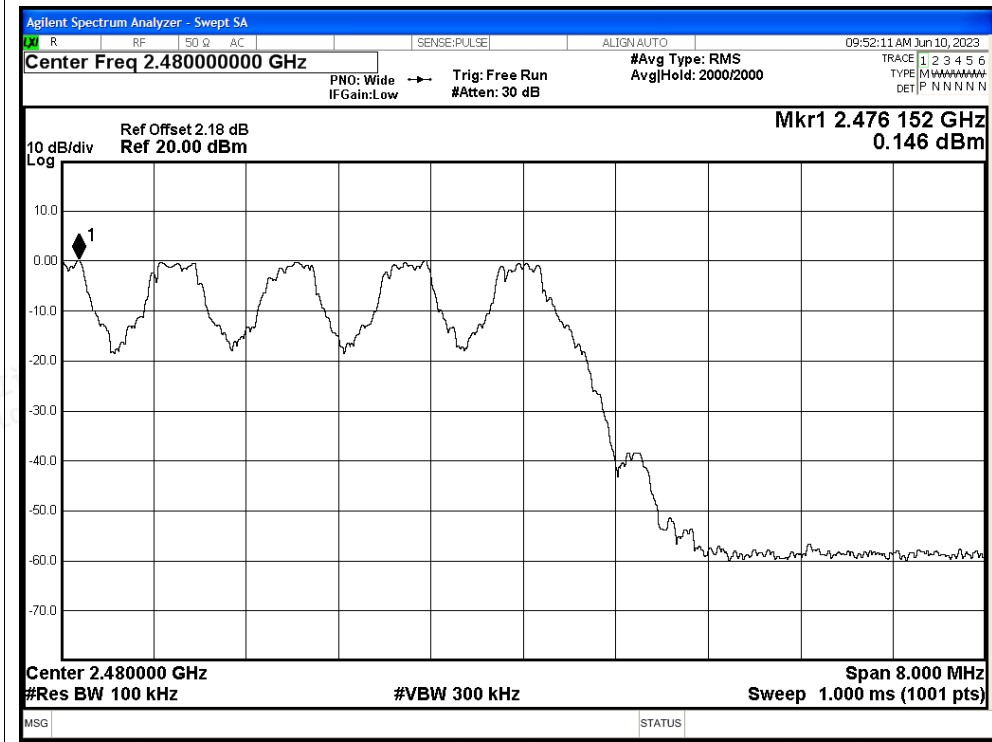


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

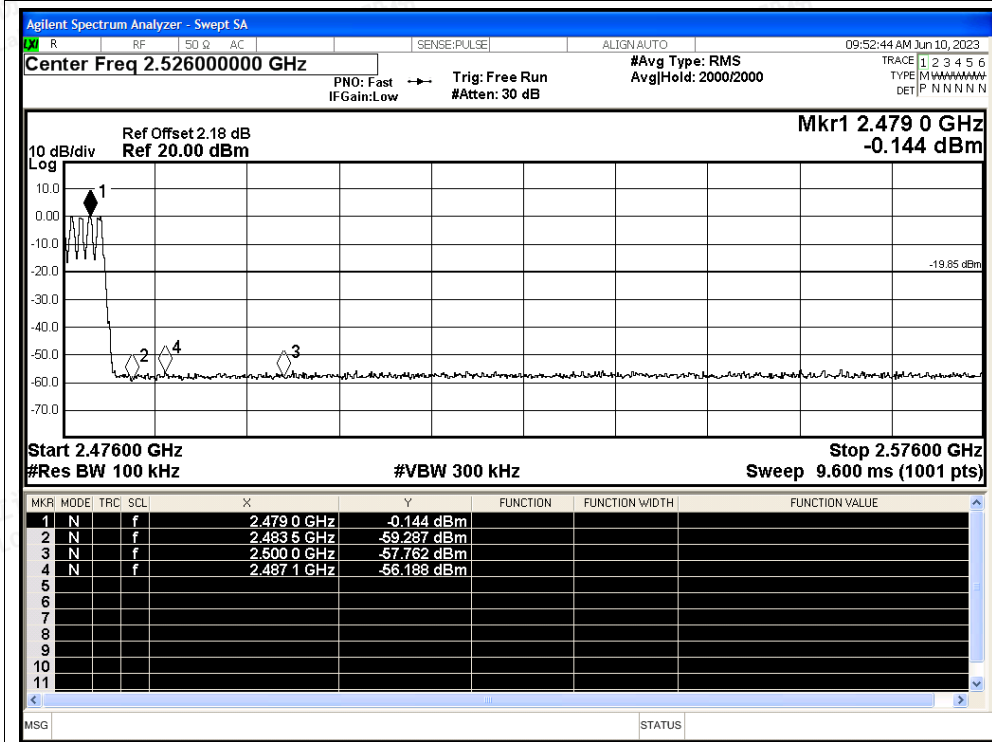




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

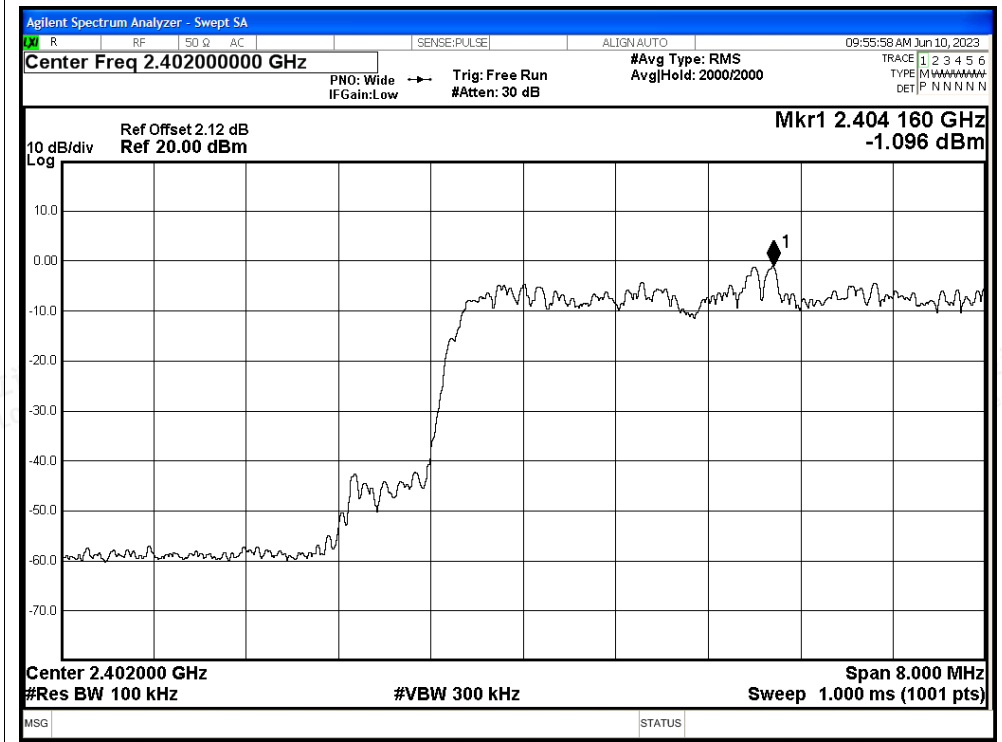


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

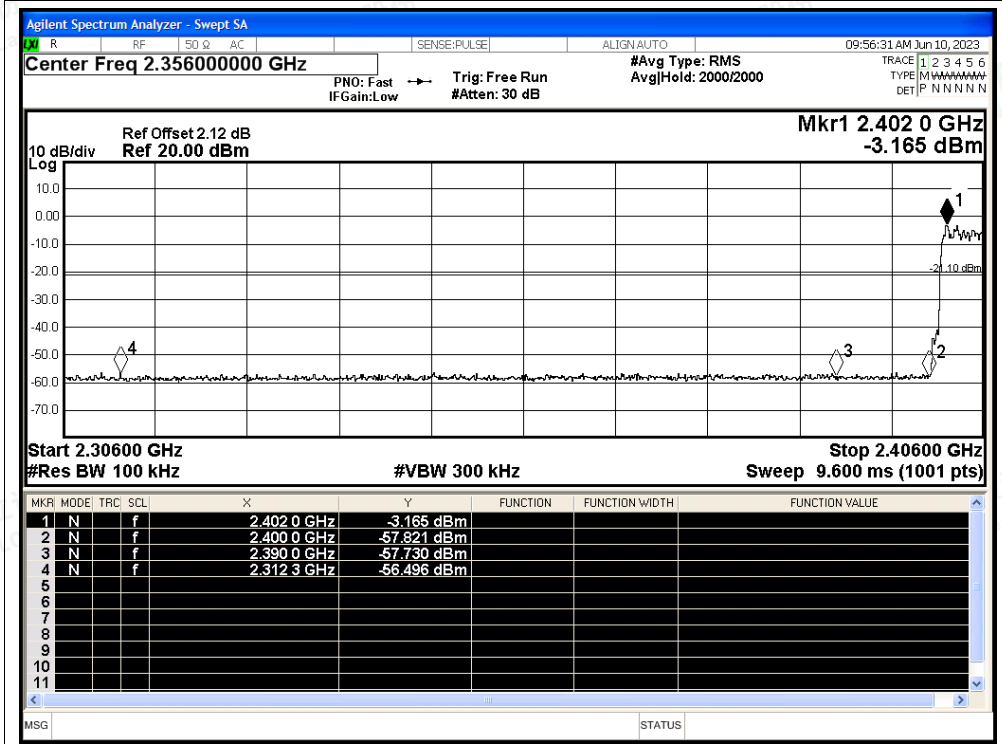




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

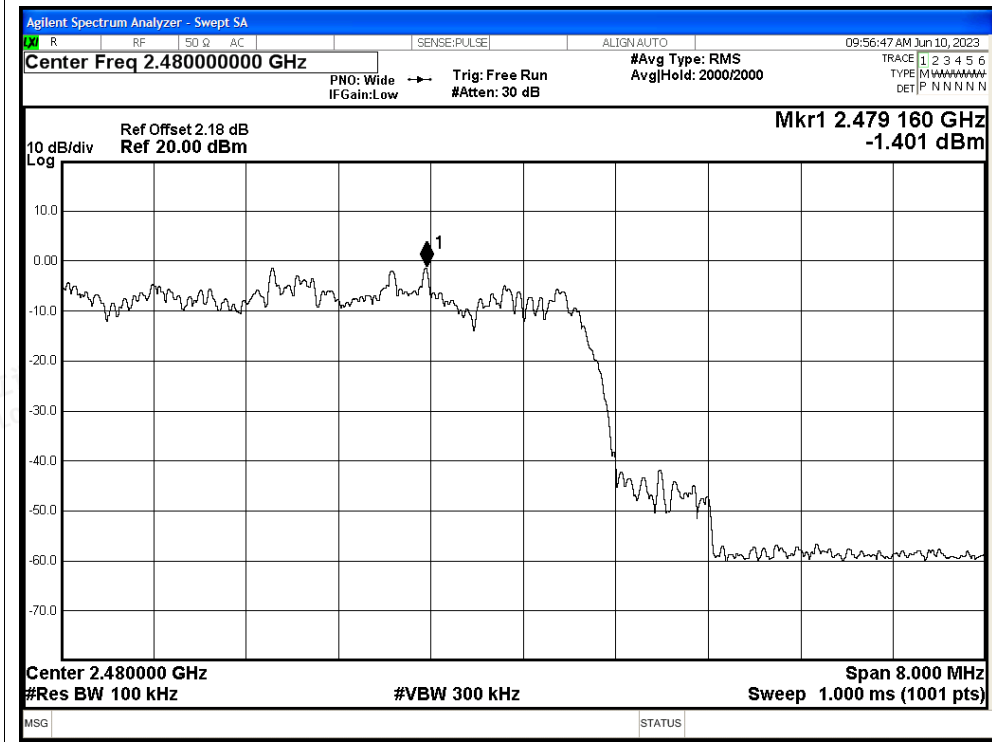


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

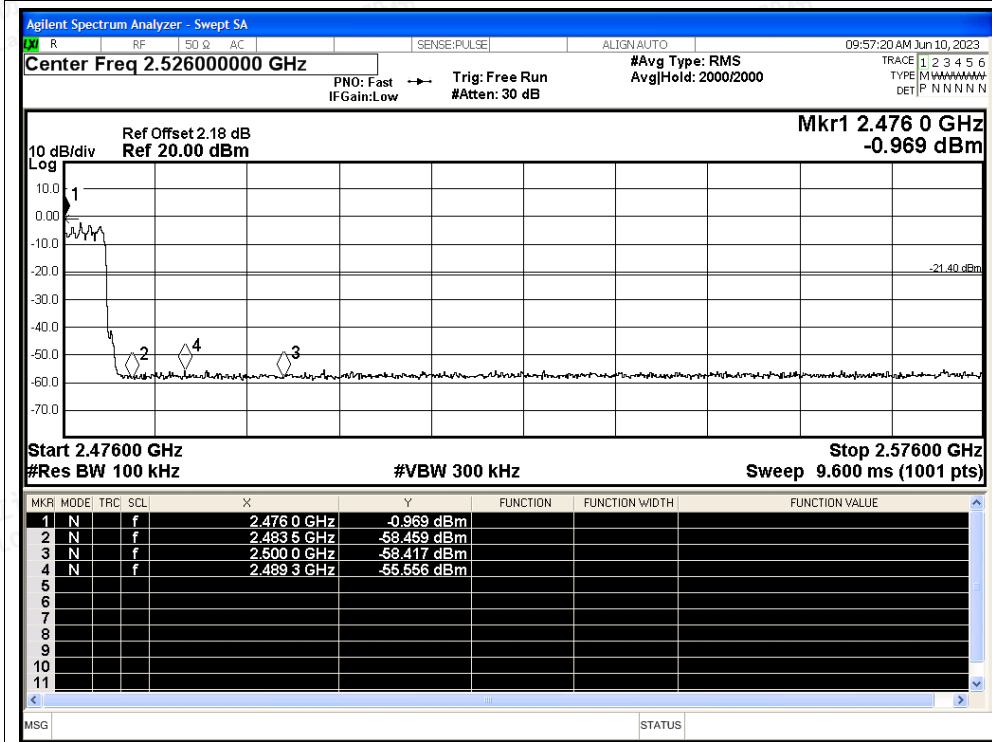




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

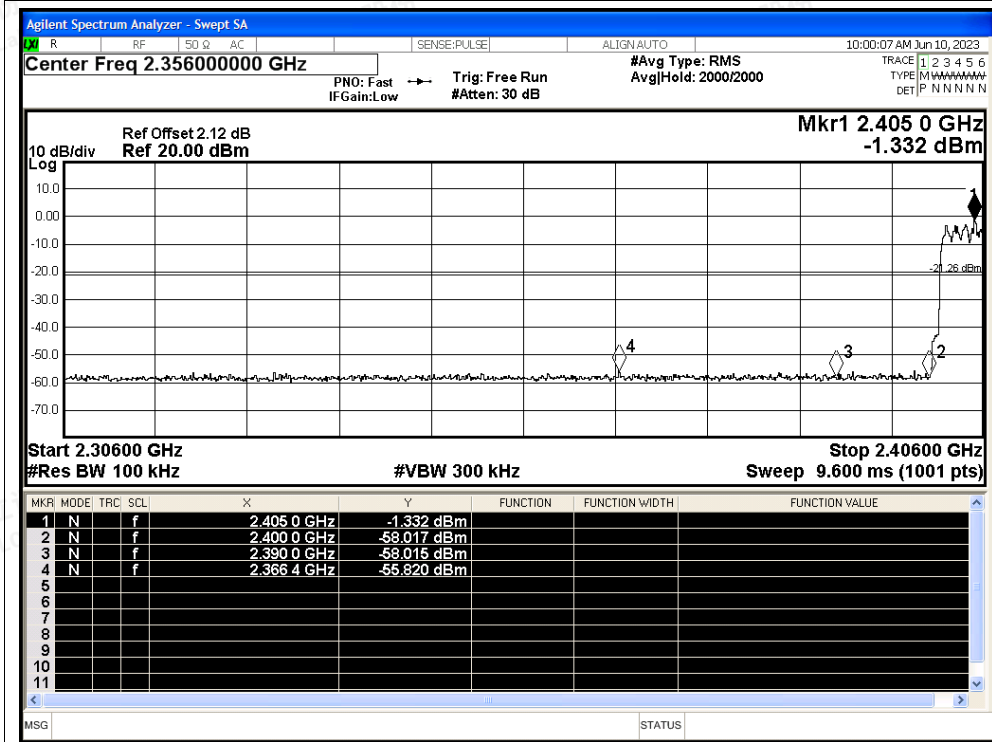




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

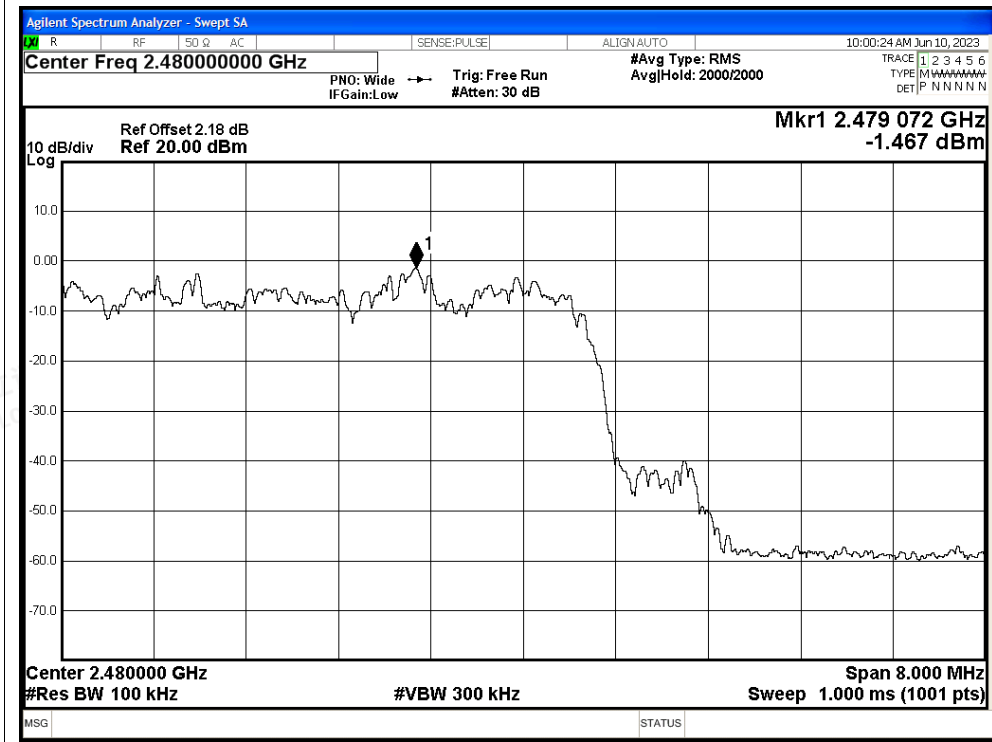


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

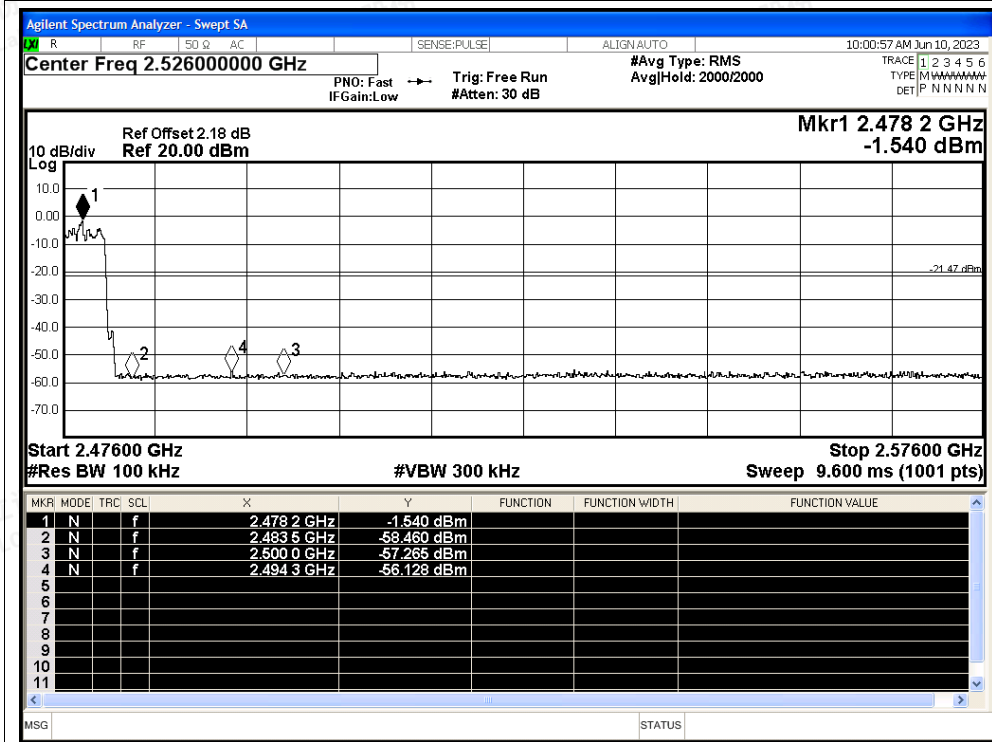




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

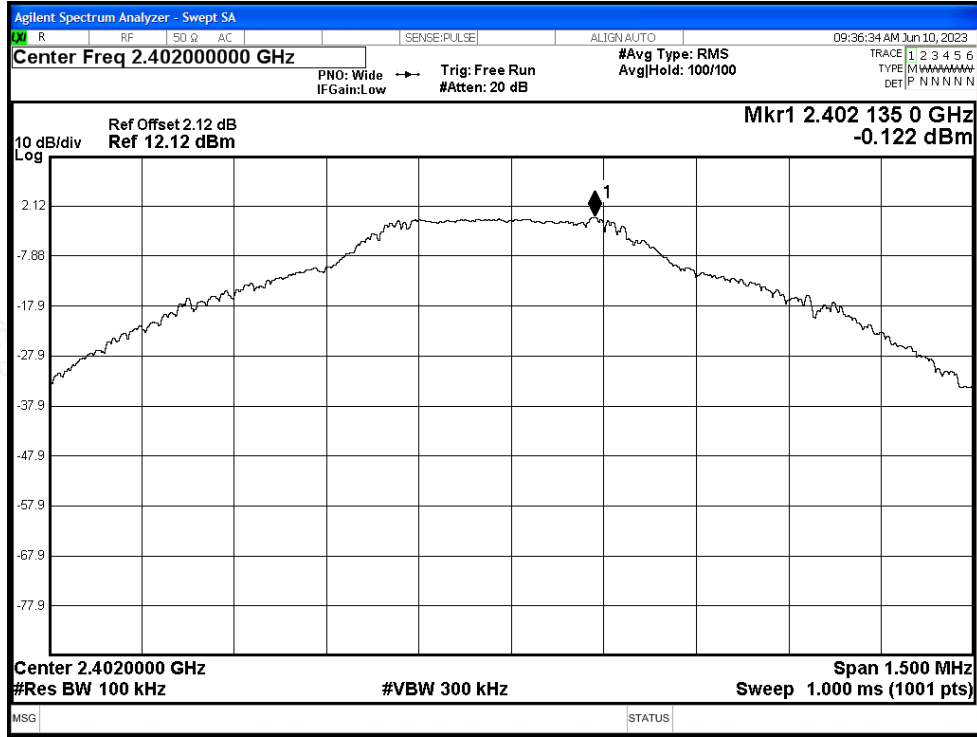
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.46	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.5	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.76	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.53	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.47	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.08	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.79	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.7	-20	Pass
NVNT	3-DH5	2480	Ant1	-54.49	-20	Pass



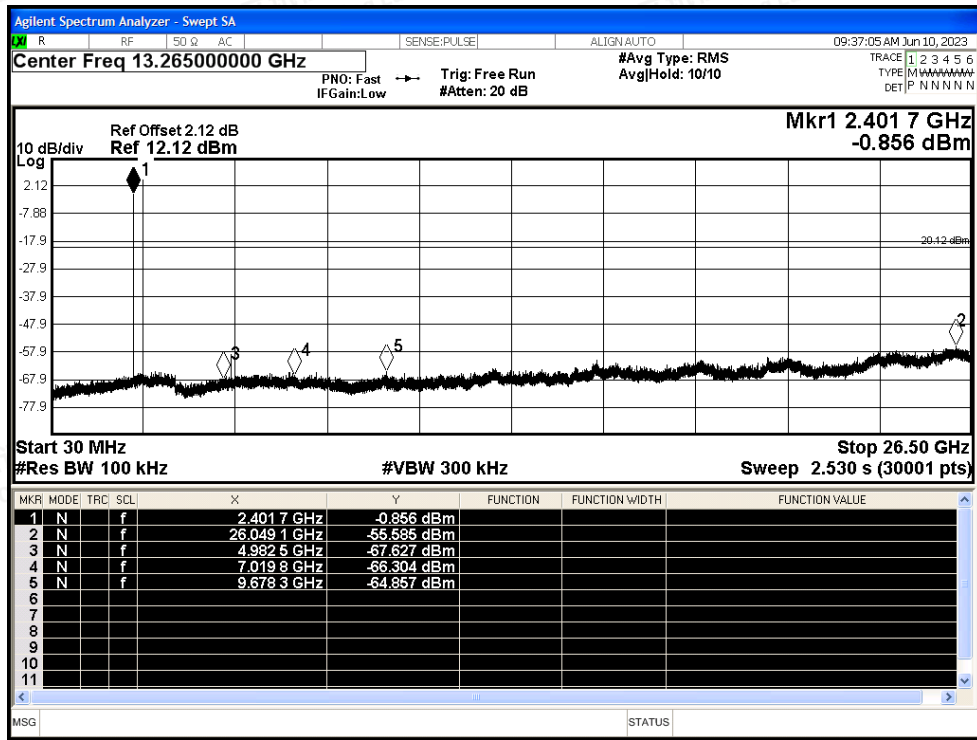


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

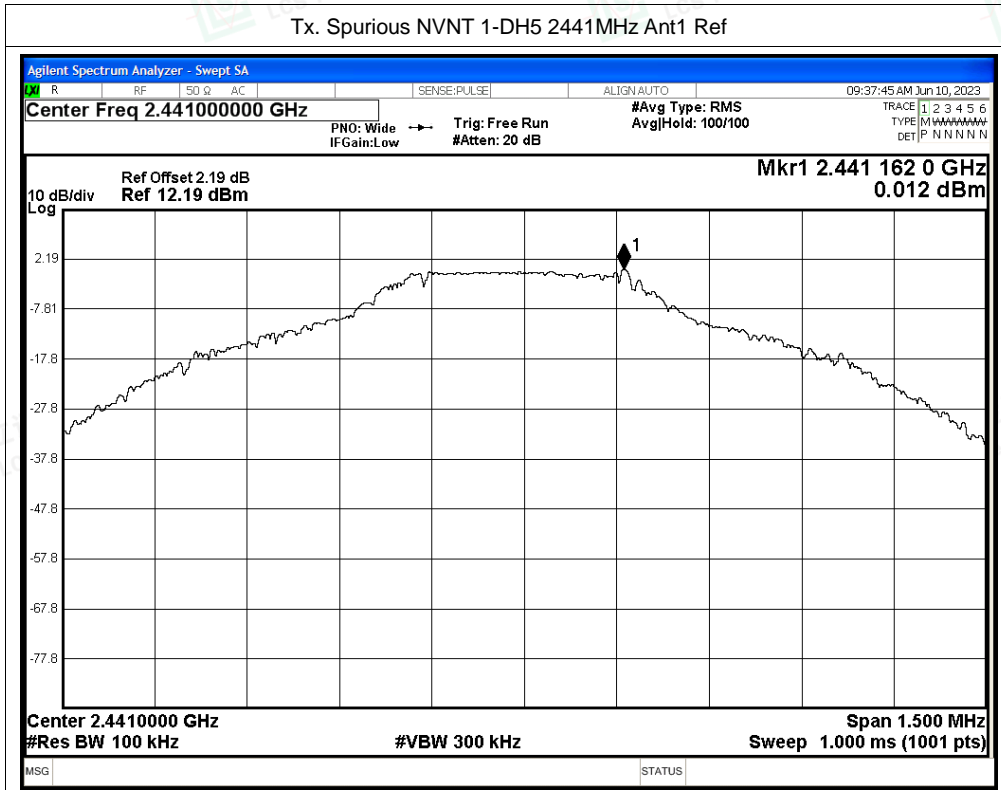


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

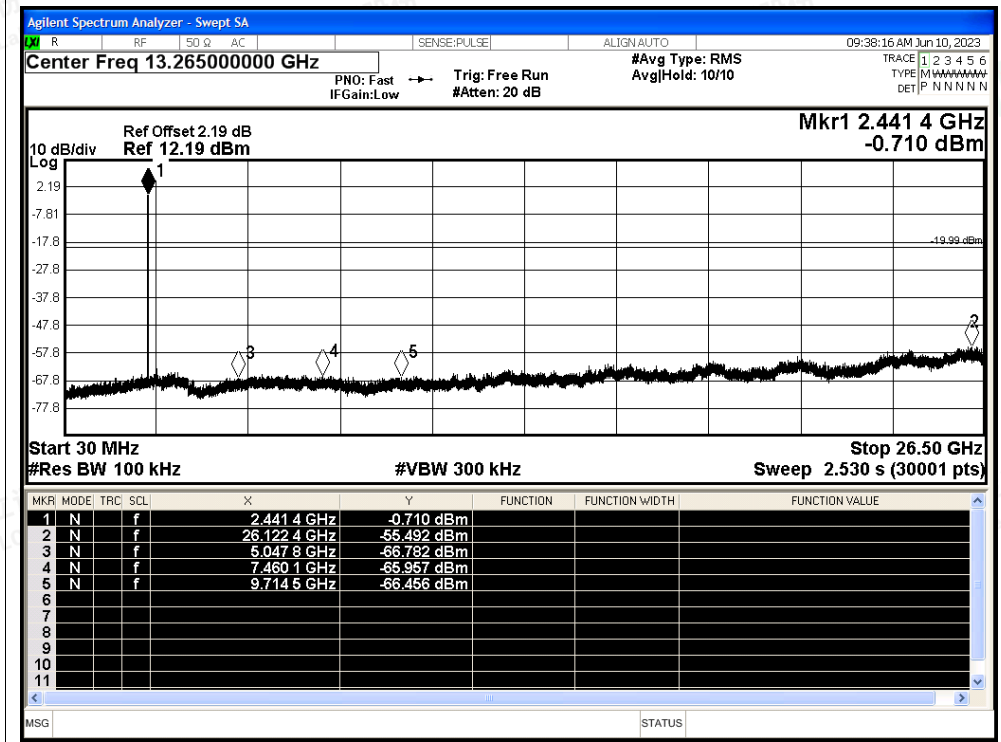




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

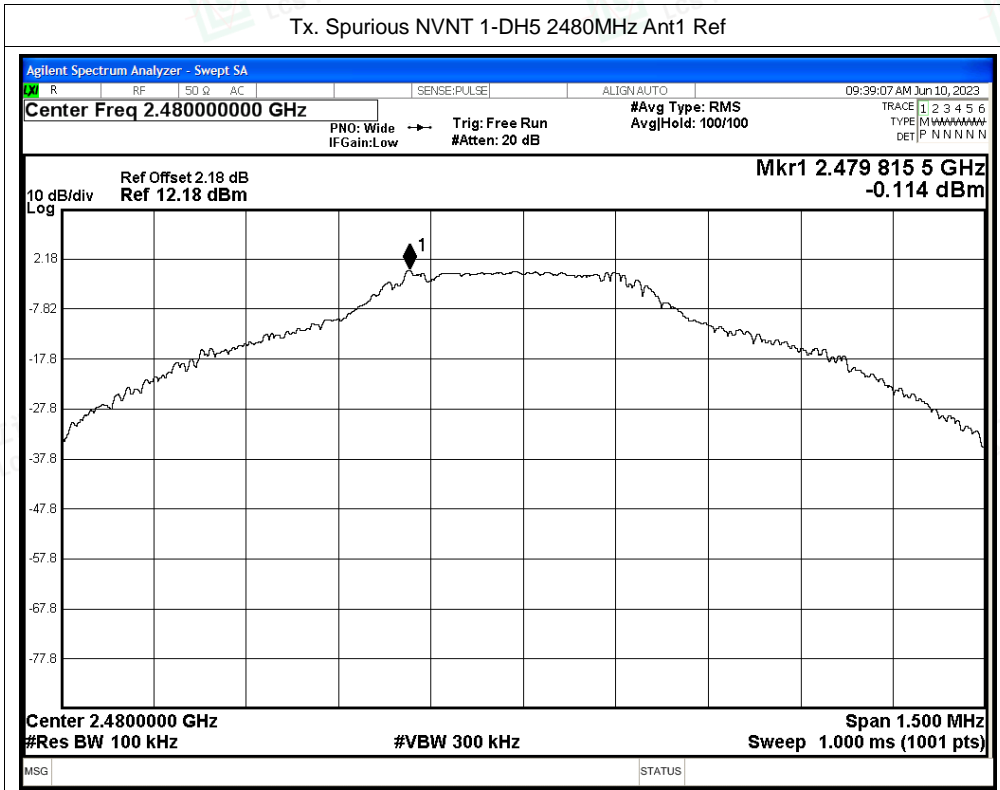


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

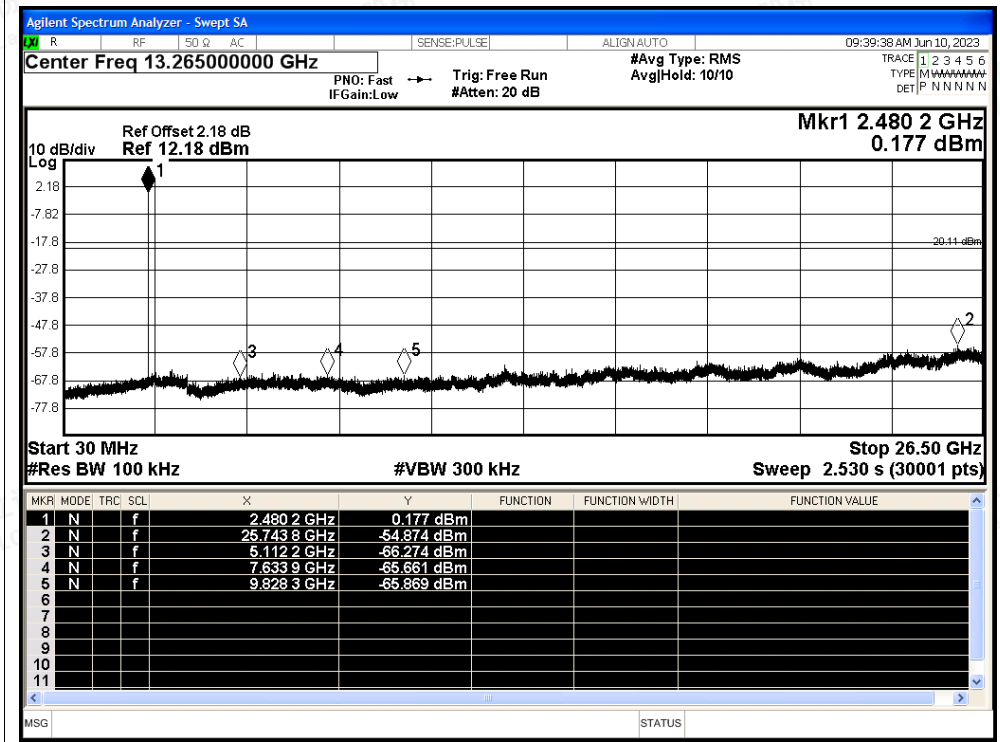




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

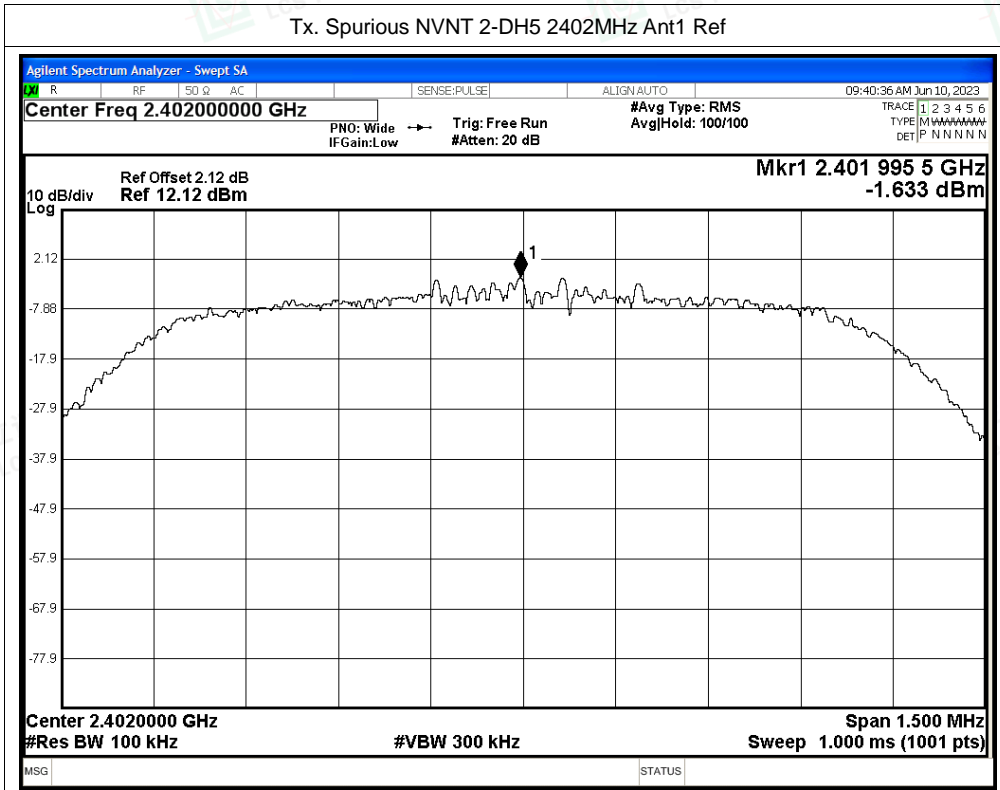


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

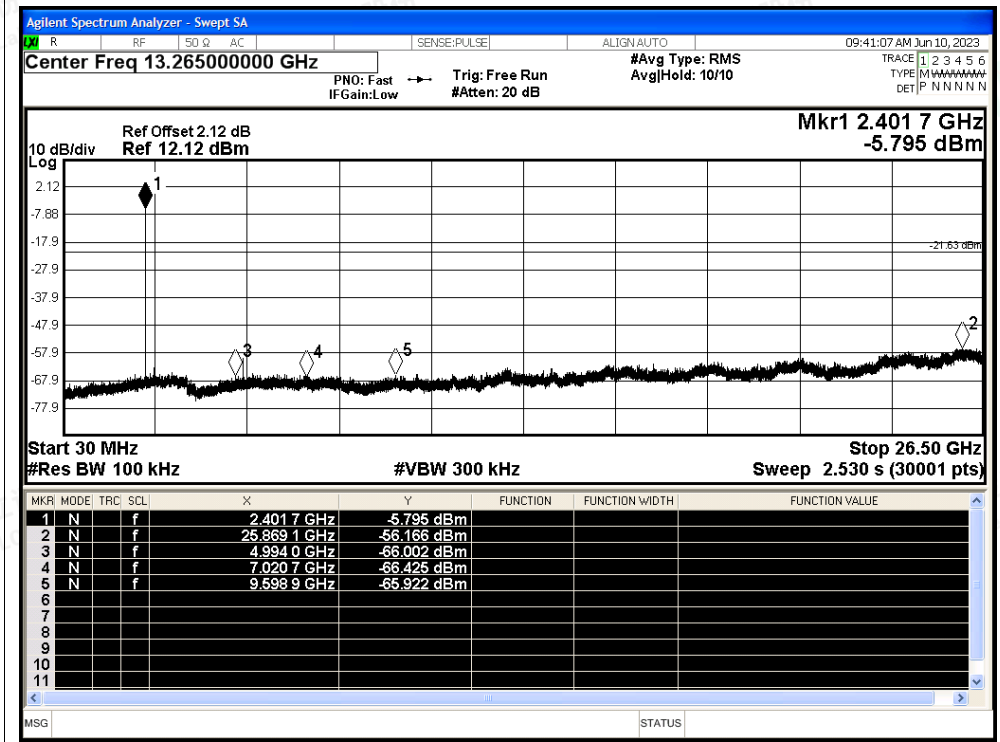




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

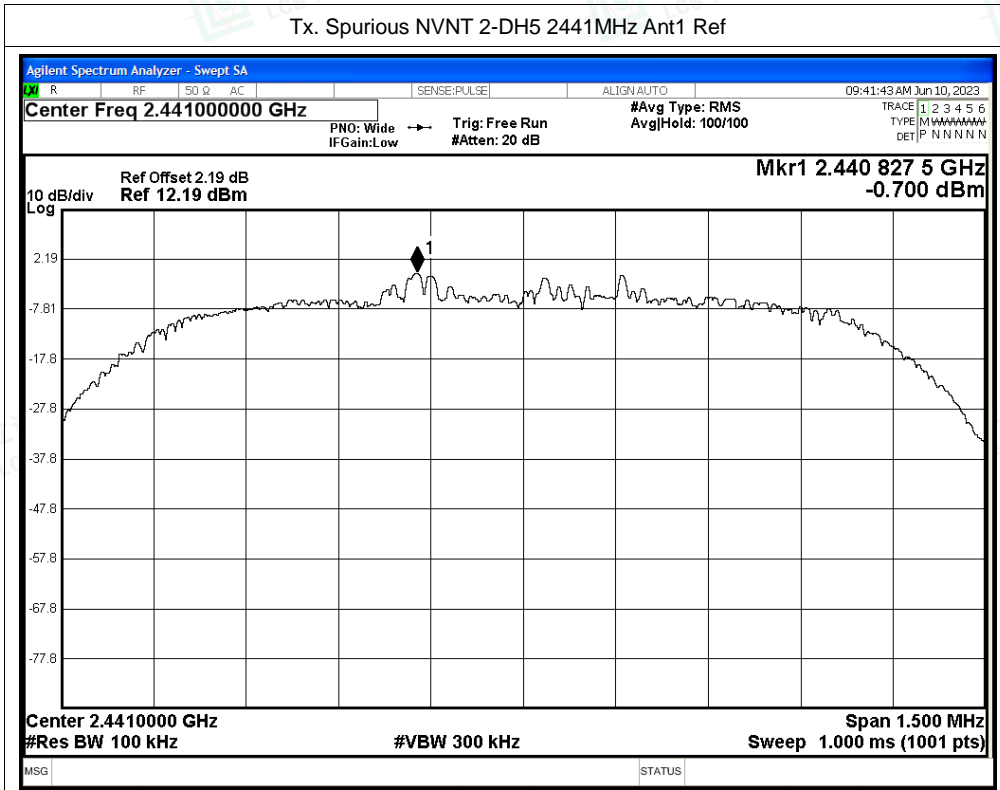


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

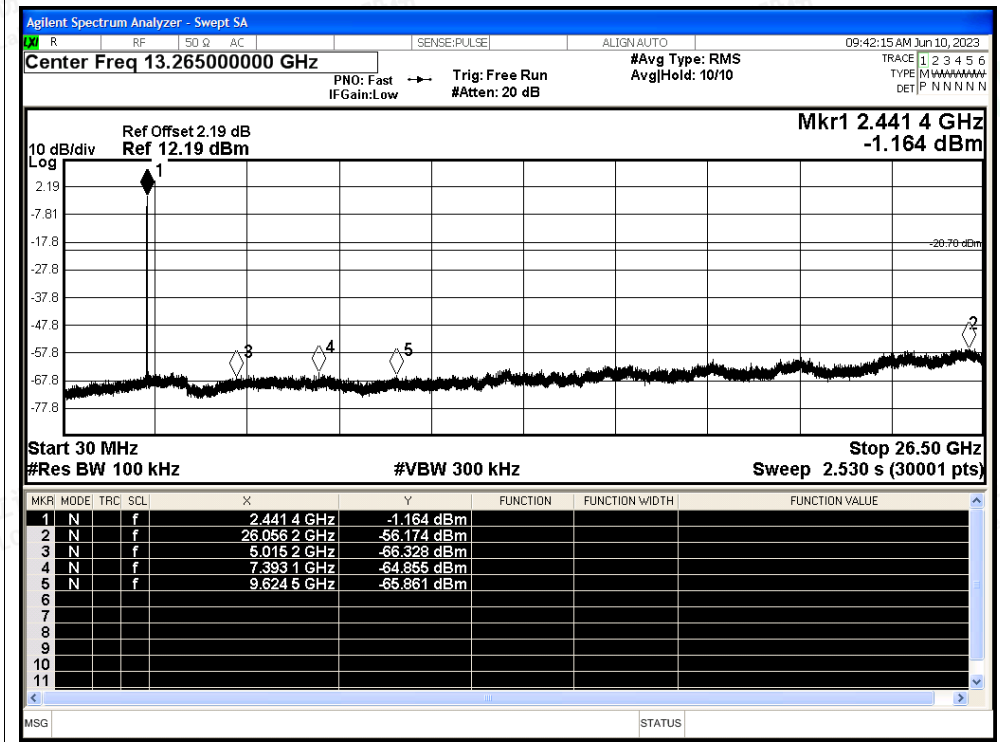




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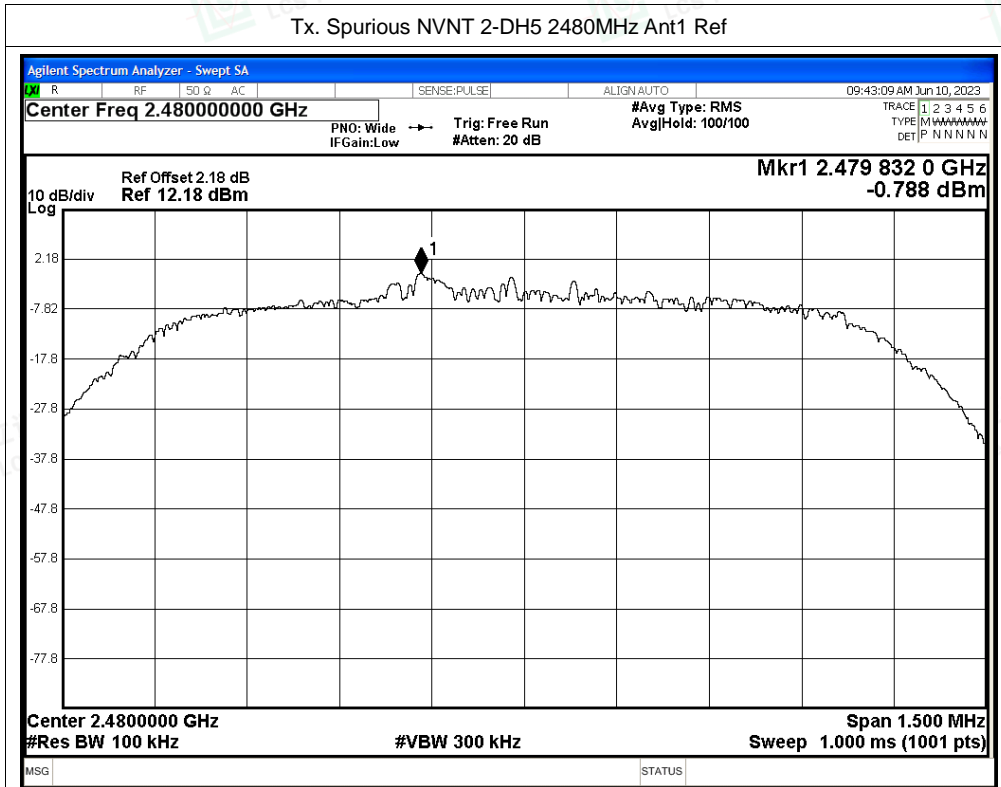


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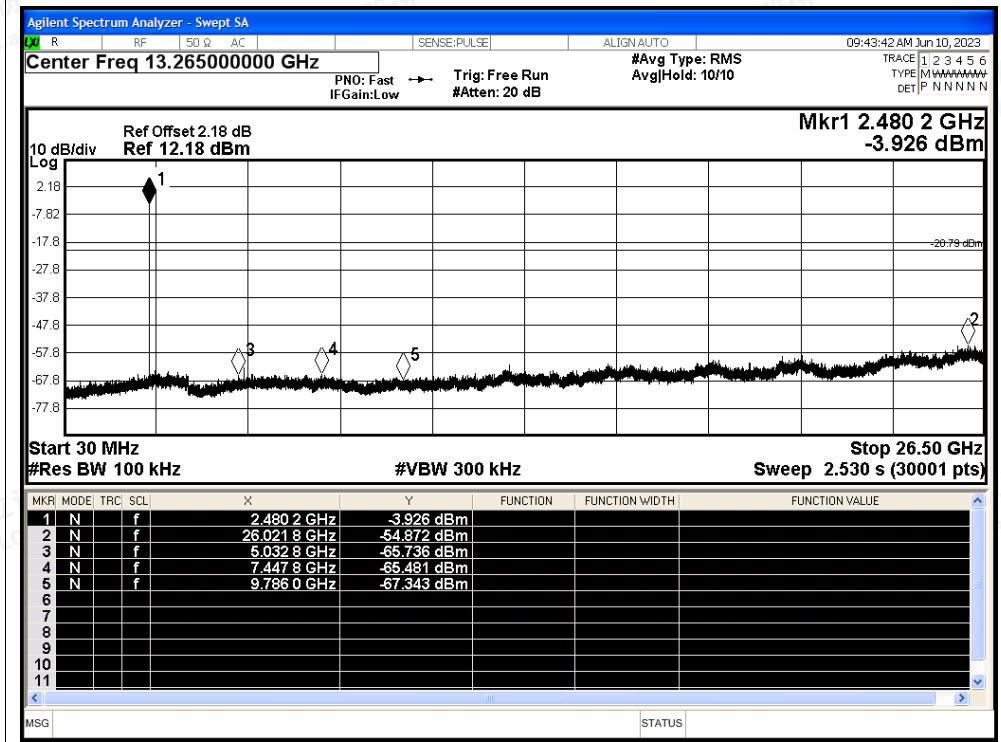




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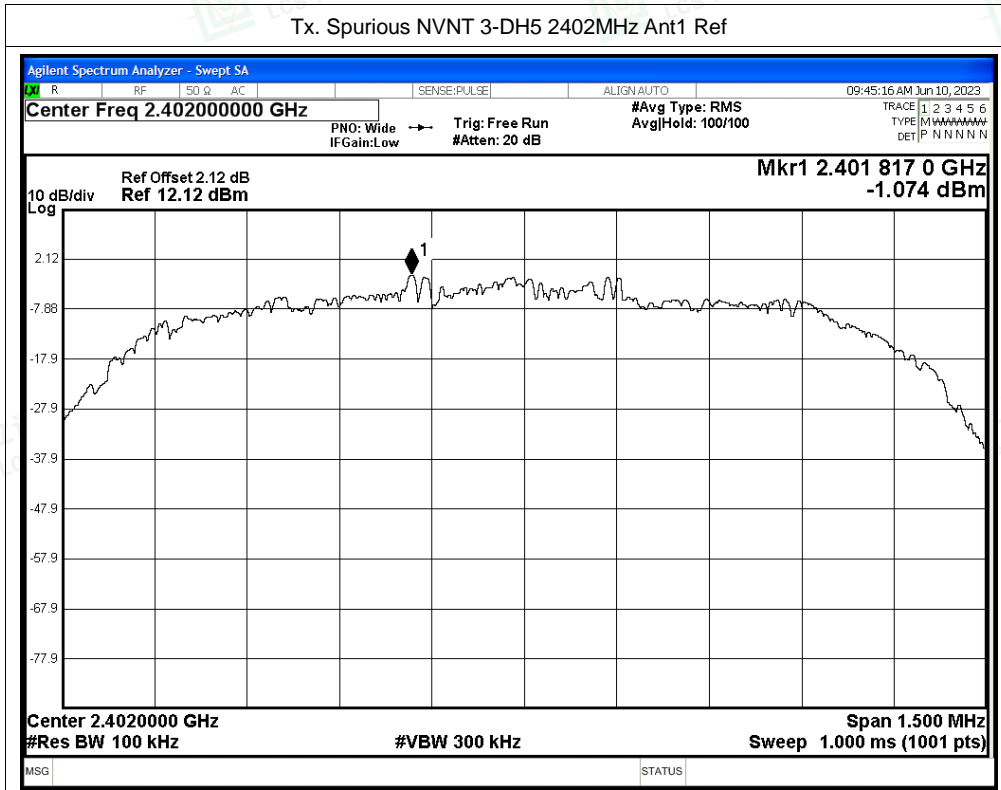


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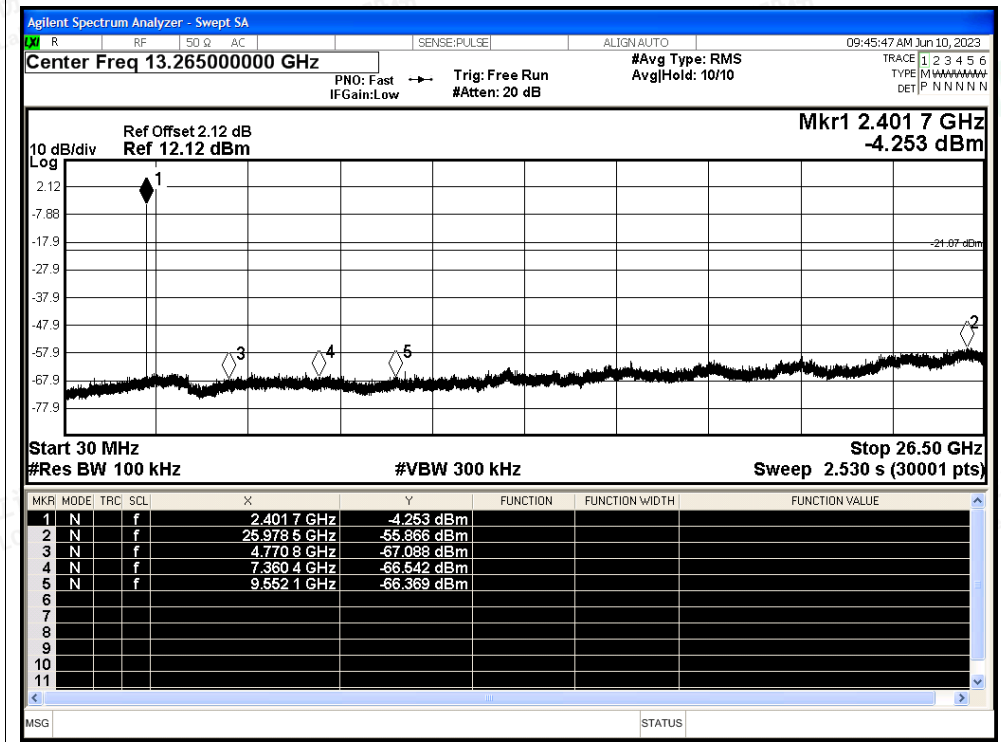




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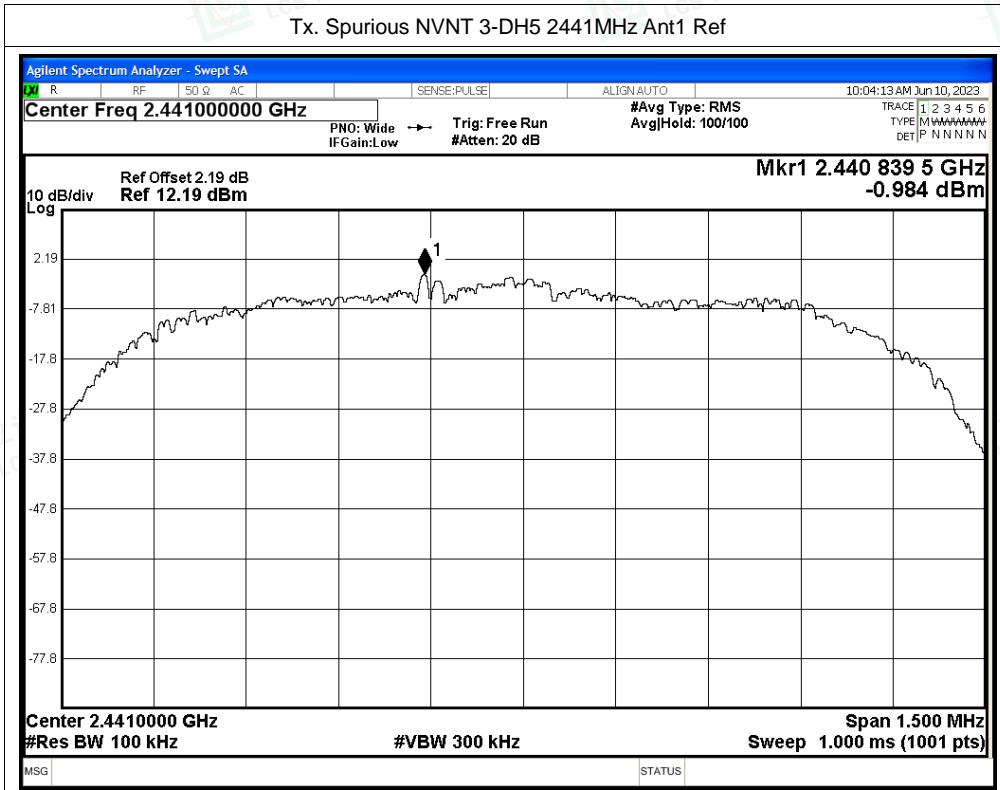


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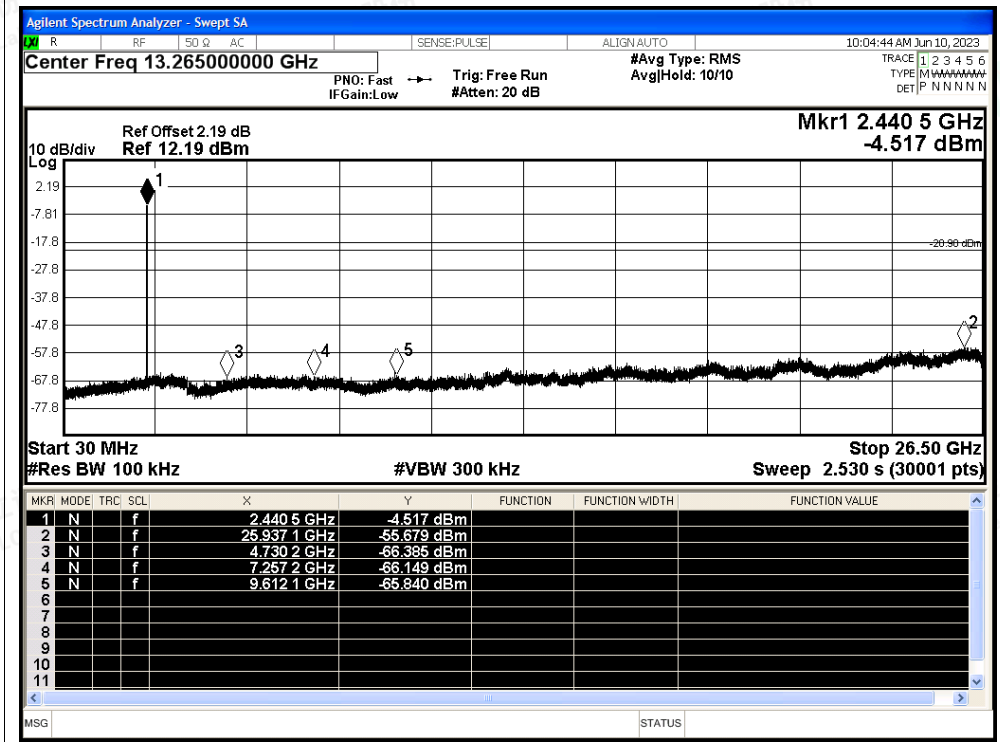




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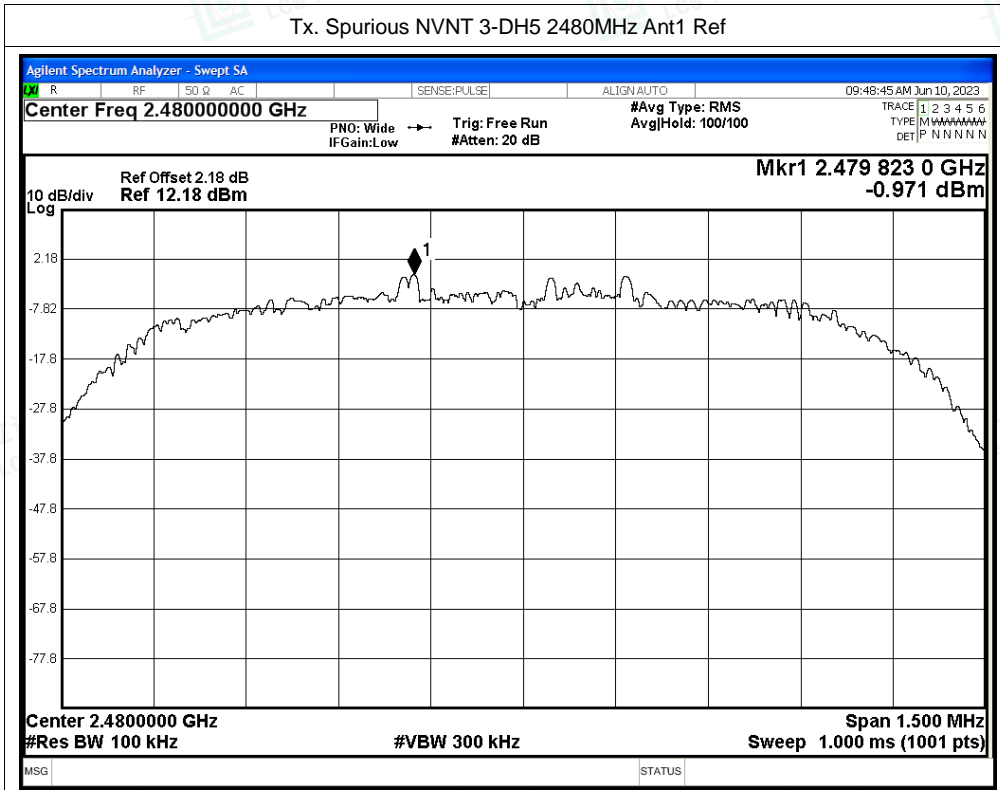


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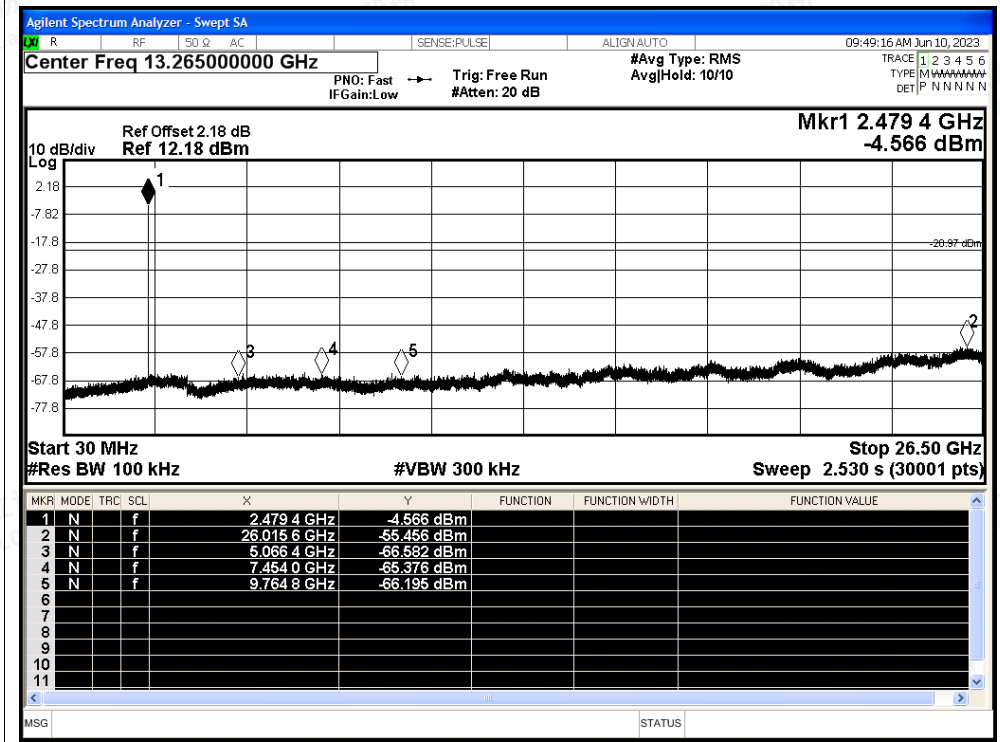




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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

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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	-51.66	2	45.6	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.99	2	39.27	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2351.184	-47.7	2	49.56	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2388.048	-57.54	2	39.72	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.79	2	47.47	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.69	2	39.57	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.67	2	47.59	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.88	2	41.38	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.288	-47	2	50.26	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.88	2	41.38	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.2	2	49.06	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.26	2	40	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.96	2	46.3	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.84	2	39.42	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2376.336	-47.47	2	49.79	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2387.952	-57.43	2	39.83	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.14	2	46.12	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.63	2	39.63	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.35	2	46.91	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.72	2	41.54	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2499.928	-46.47	2	50.79	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.72	2	41.54	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.31	2	47.95	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.28	2	39.98	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.46	2	46.8	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.83	2	39.43	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2314.896	-47.45	2	49.81	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2386.512	-57.42	2	39.84	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.58	2	46.68	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.53	2	39.73	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.55	2	47.71	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.57	2	41.69	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2494.024	-47.63	2	49.63	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.57	2	41.69	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-51.23	2	46.03	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.31	2	39.95	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

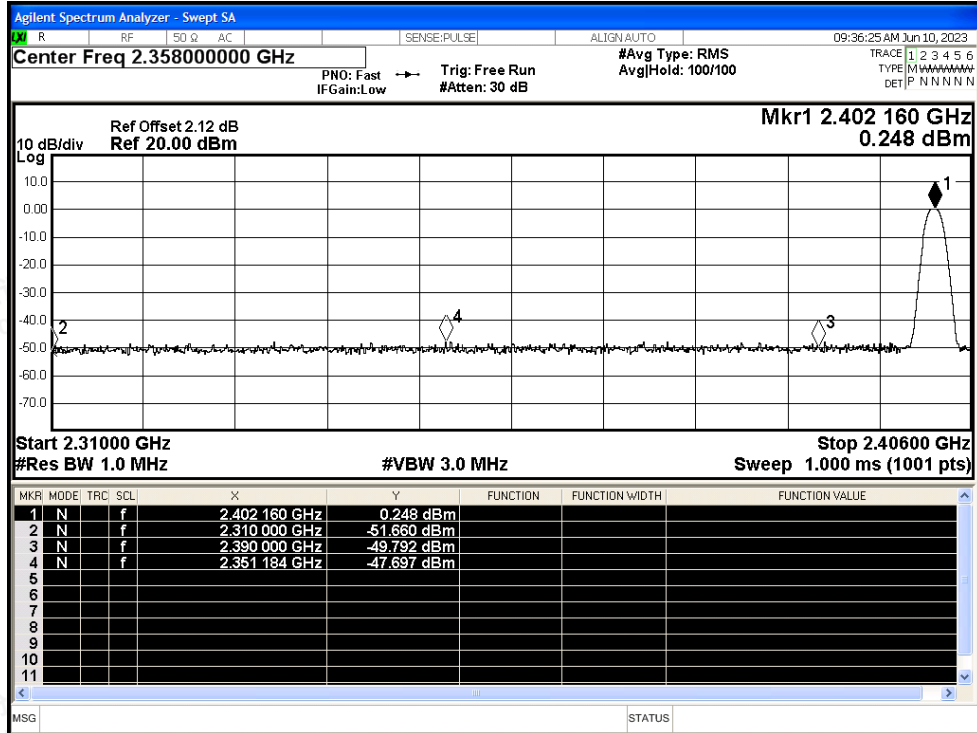
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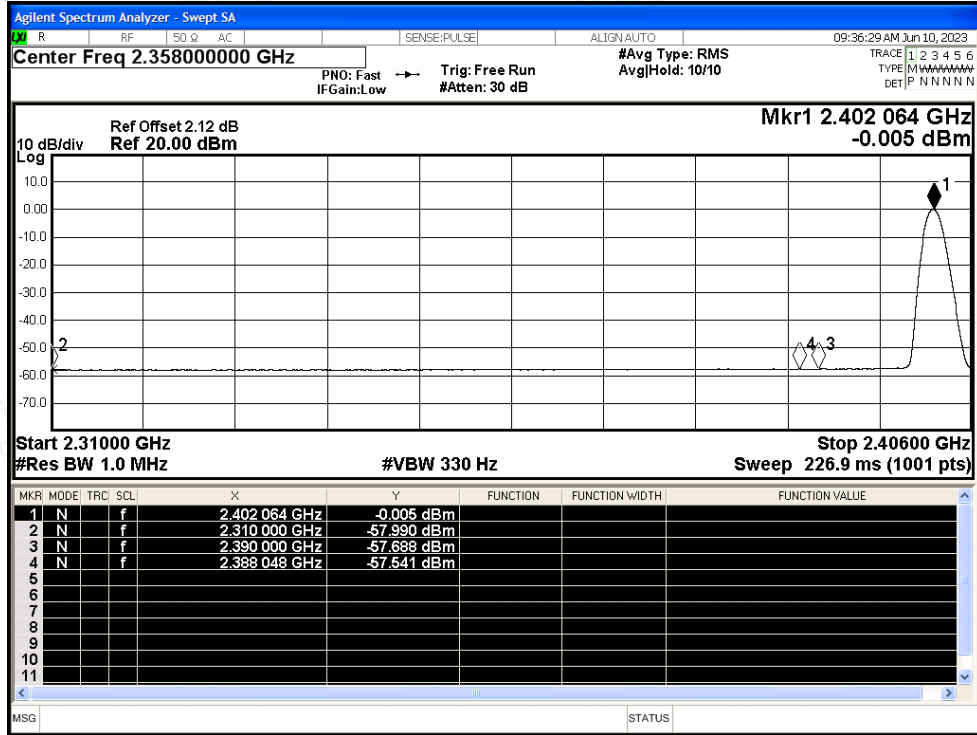


Test Graphs

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

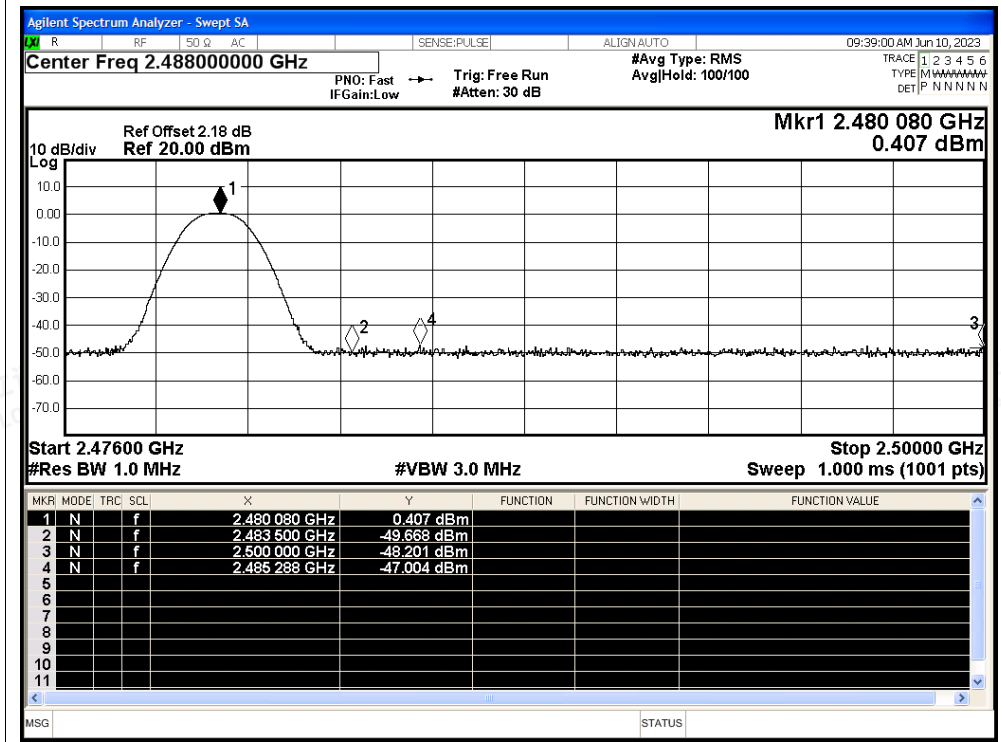


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

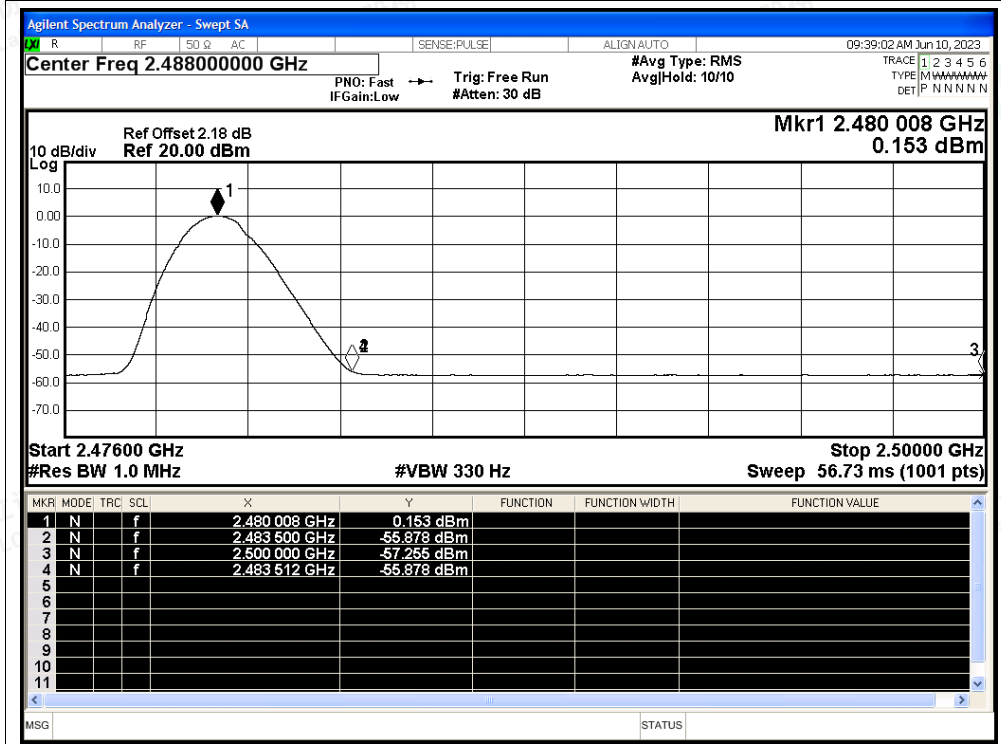




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

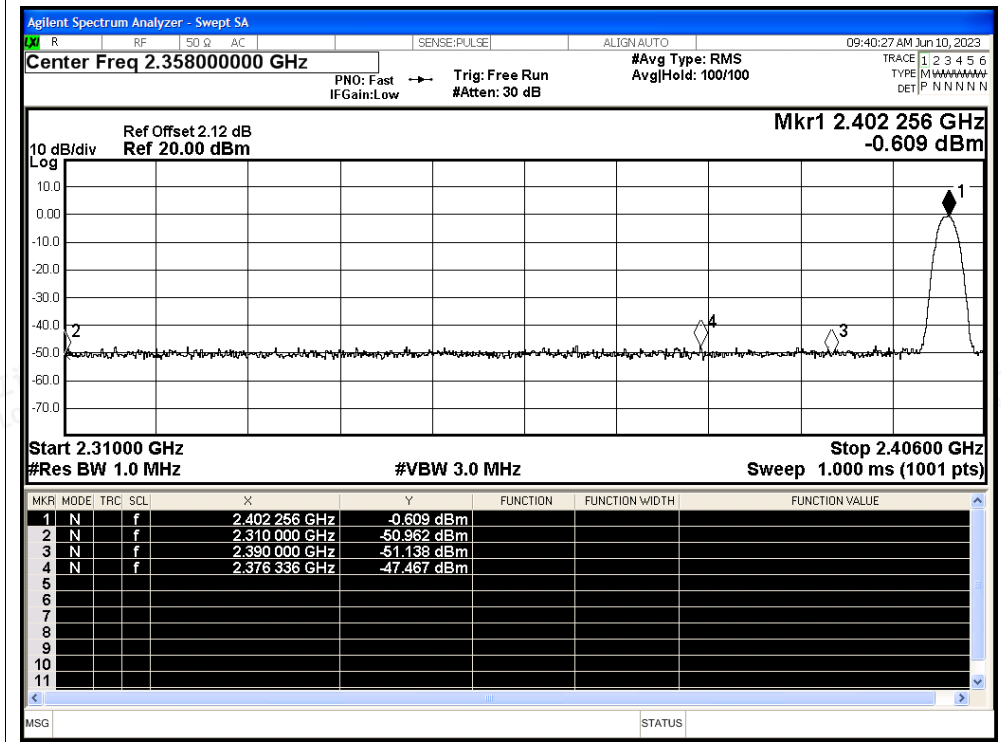


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

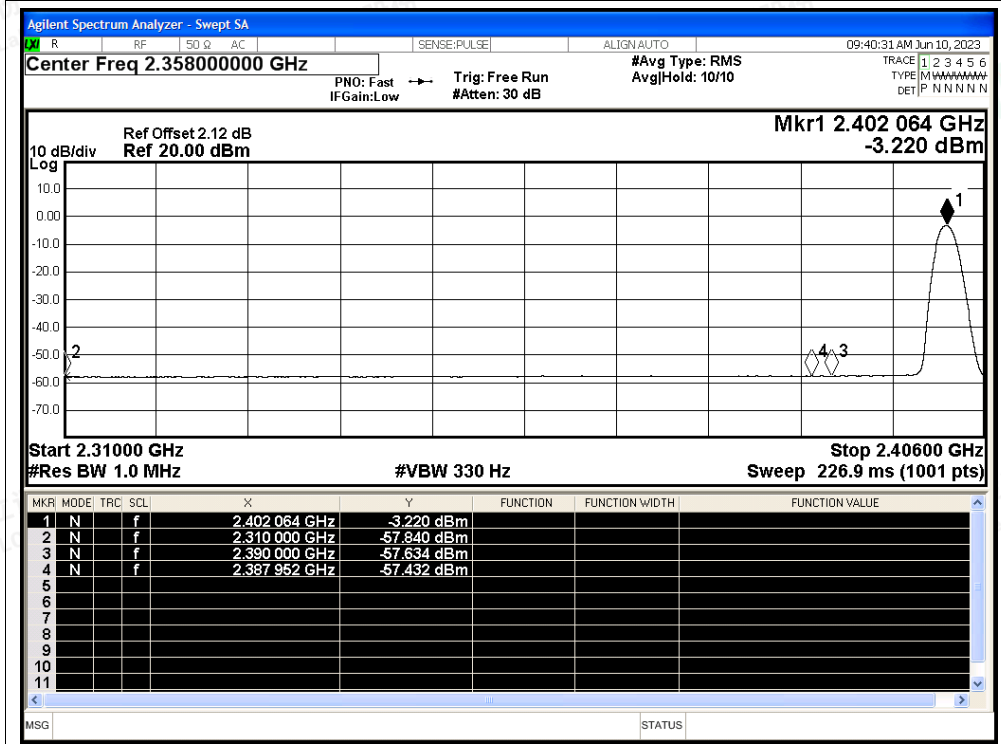




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

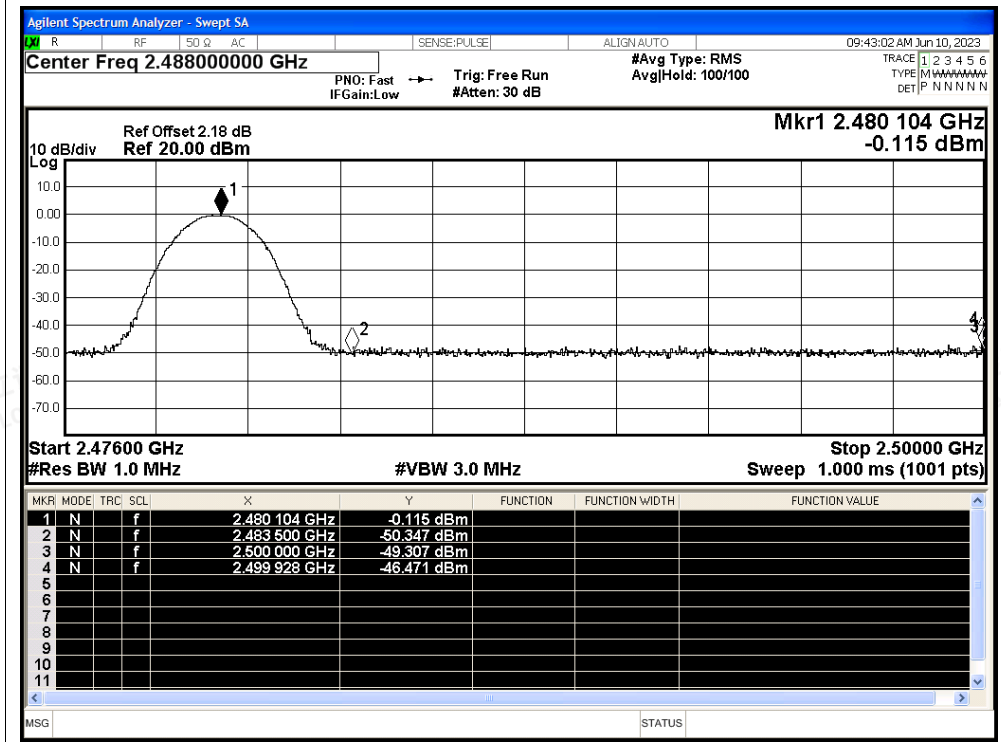


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

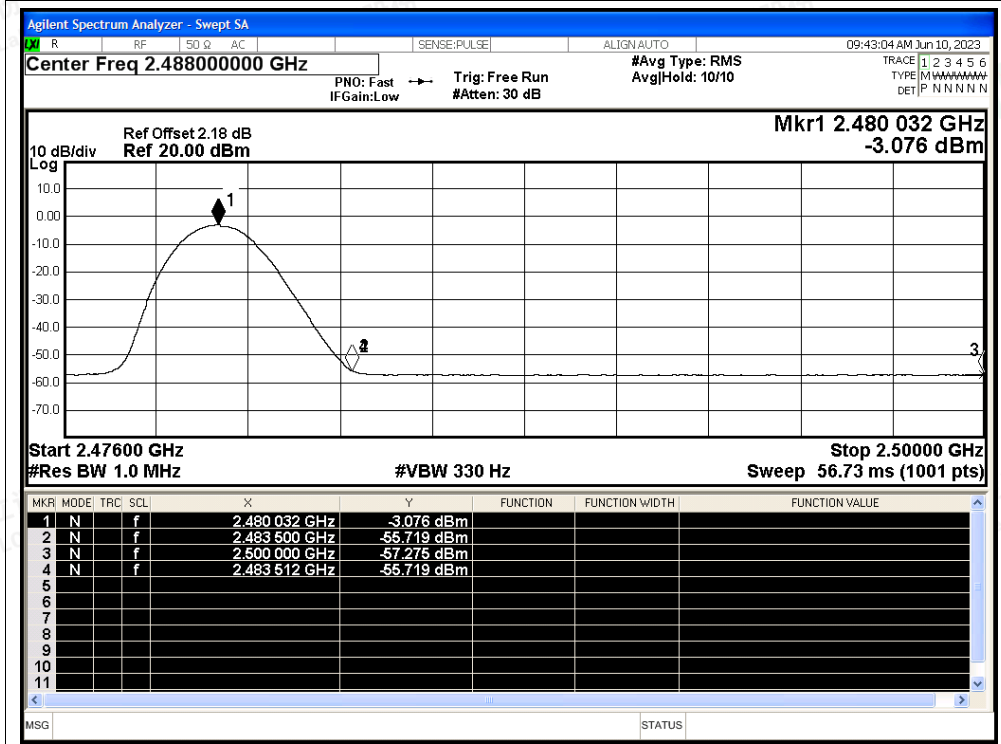




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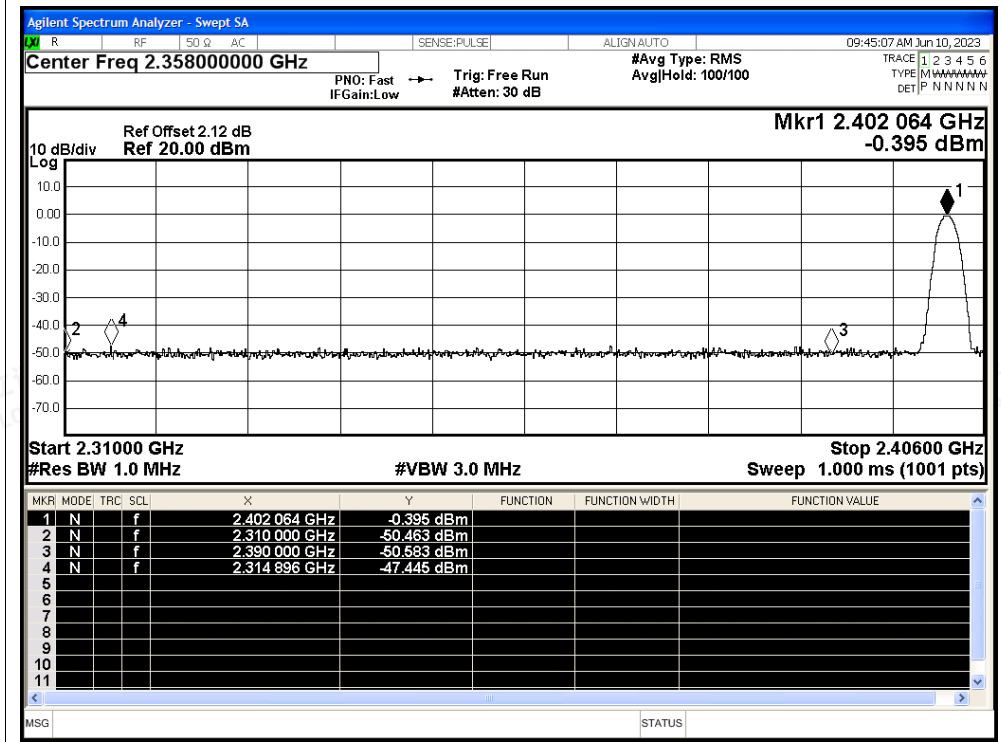


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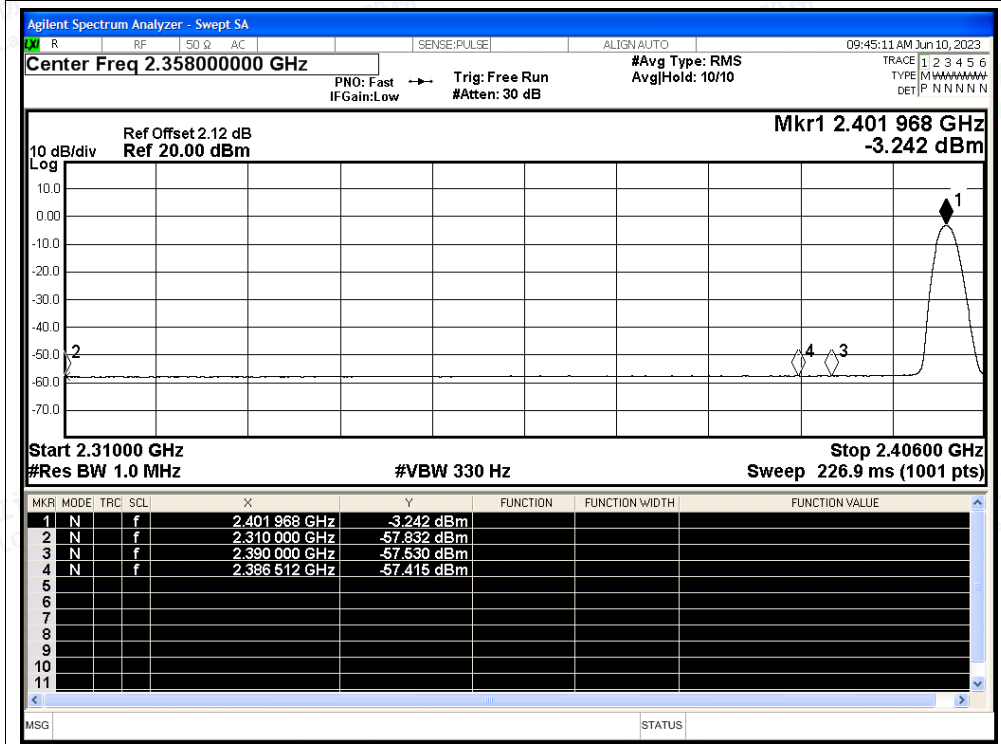




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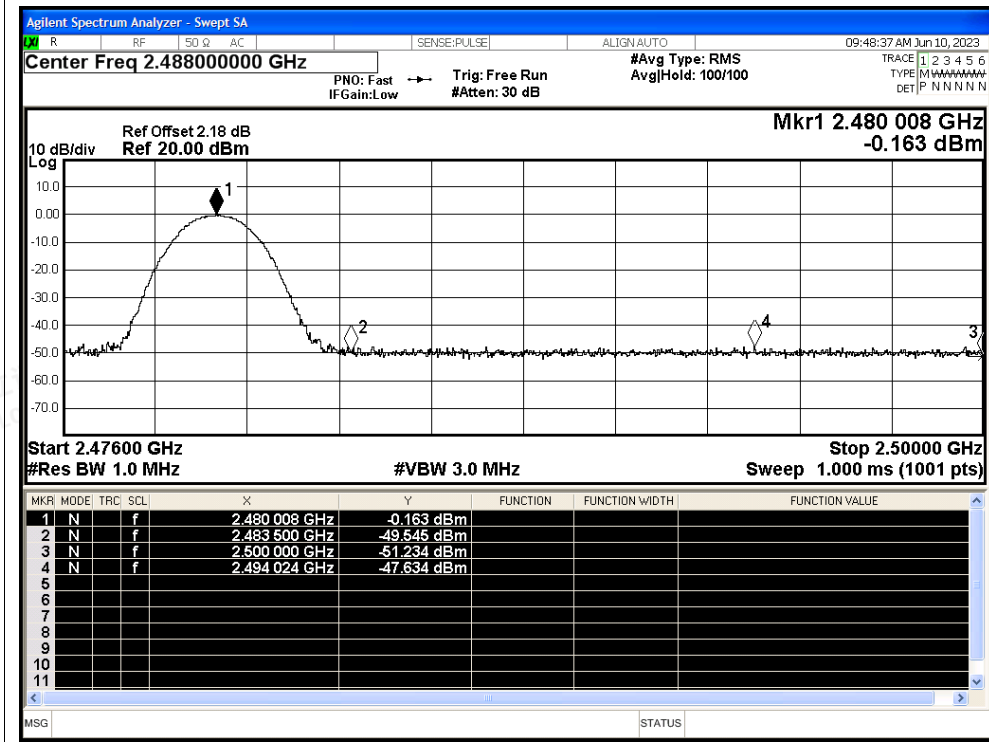


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

