



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Prodigy Connect 12(Tablet PC)

Test Model: PGI-401

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jack Cheng
Supervised by:	Li Huan



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A.1 -20dB Bandwidth

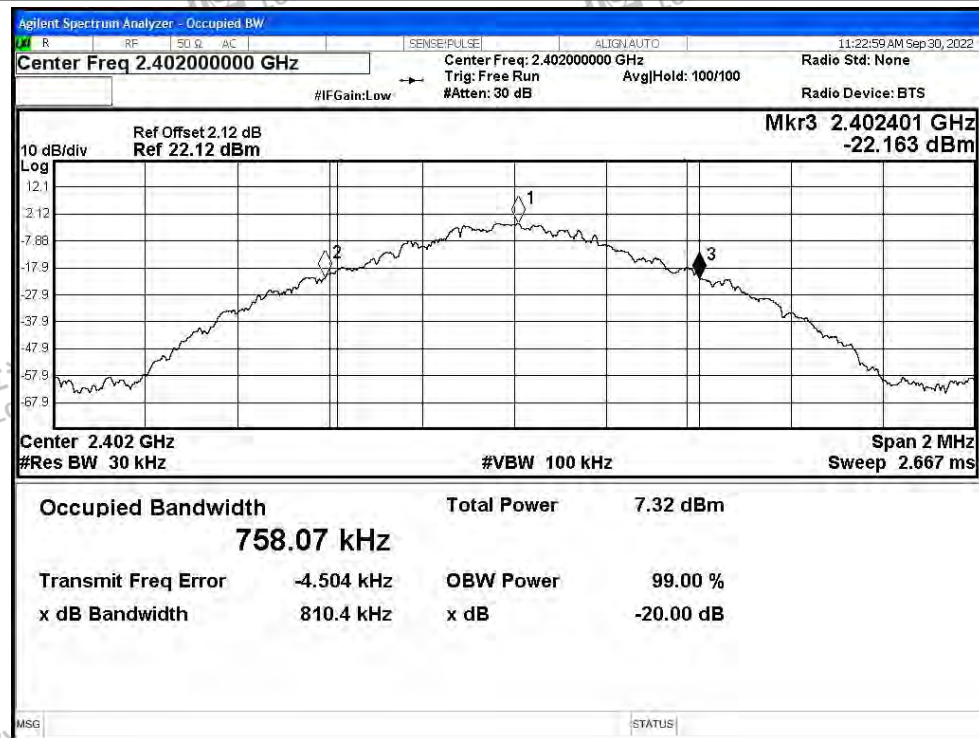
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.81	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.838	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.832	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.267	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.261	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.273	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.285	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.251	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.289	N/A	Pass



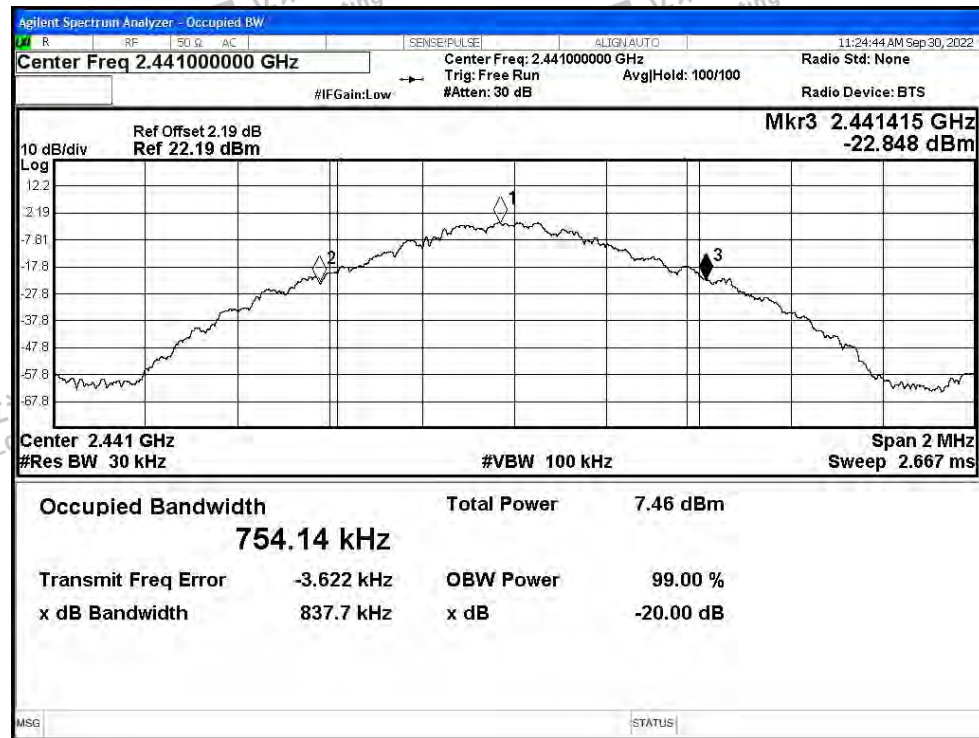


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

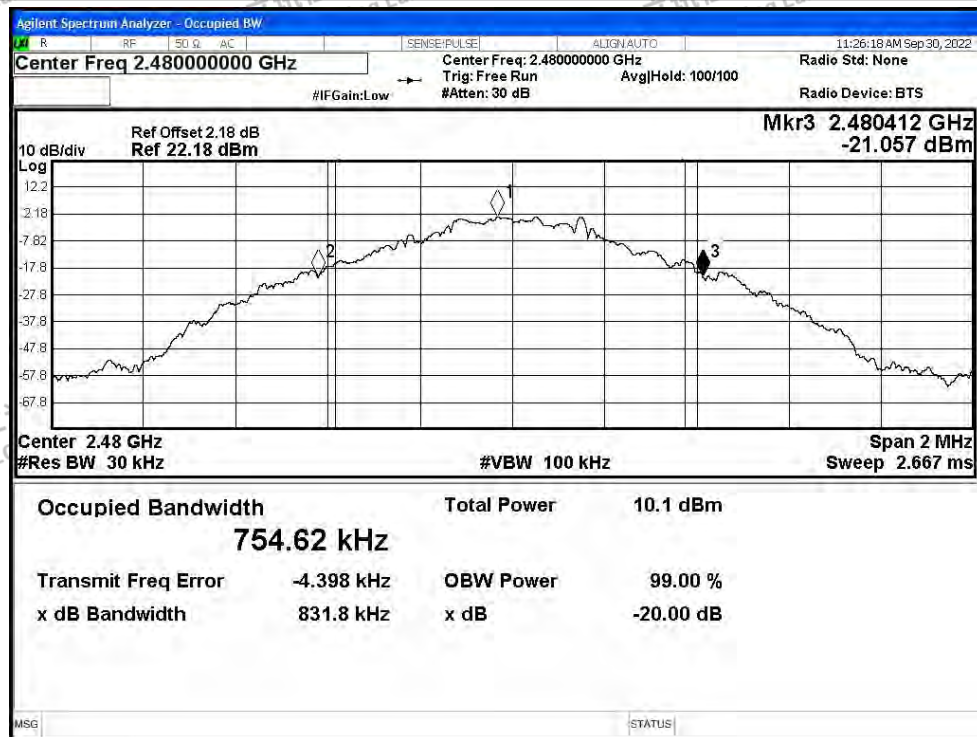


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

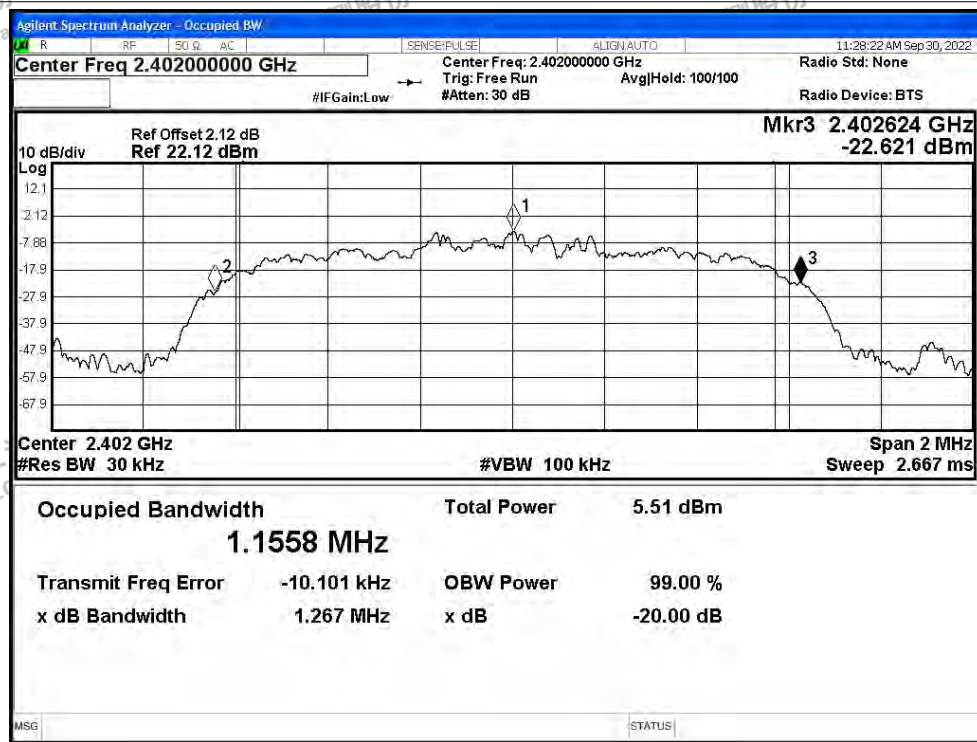




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1





-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

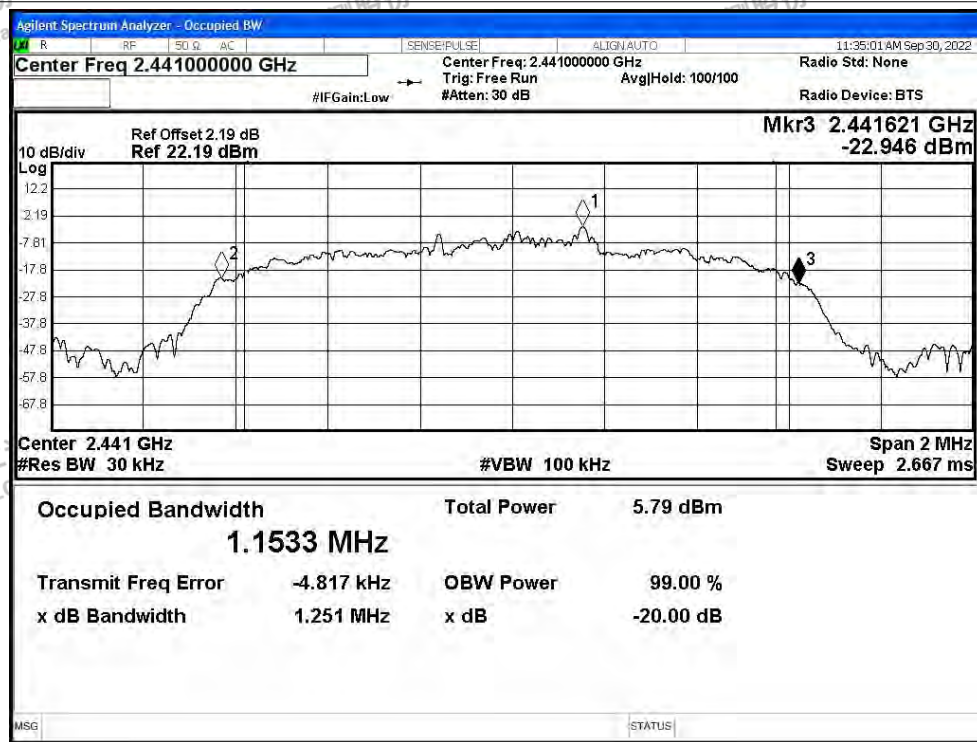


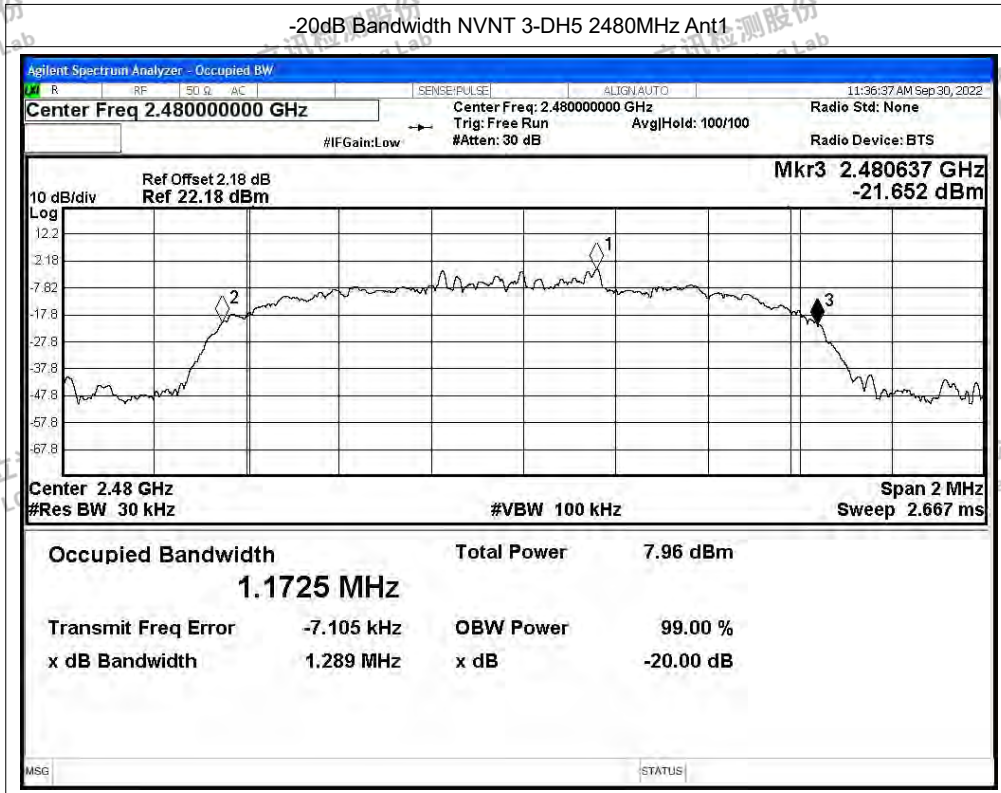


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Conducted Output Power

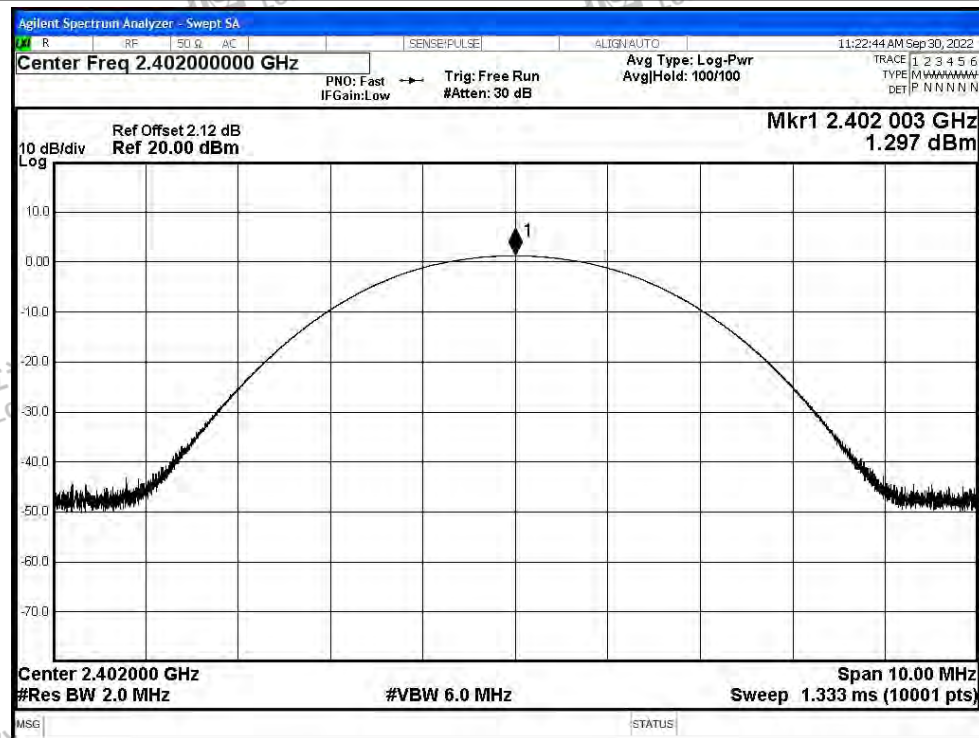
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.3	30	Pass
NVNT	1-DH5	2441	Ant1	1.36	30	Pass
NVNT	1-DH5	2480	Ant1	3.92	30	Pass
NVNT	2-DH5	2402	Ant1	0.46	30	Pass
NVNT	2-DH5	2441	Ant1	0.6	30	Pass
NVNT	2-DH5	2480	Ant1	3.26	30	Pass
NVNT	3-DH5	2402	Ant1	0.5	30	Pass
NVNT	3-DH5	2441	Ant1	0.62	30	Pass
NVNT	3-DH5	2480	Ant1	3.26	30	Pass



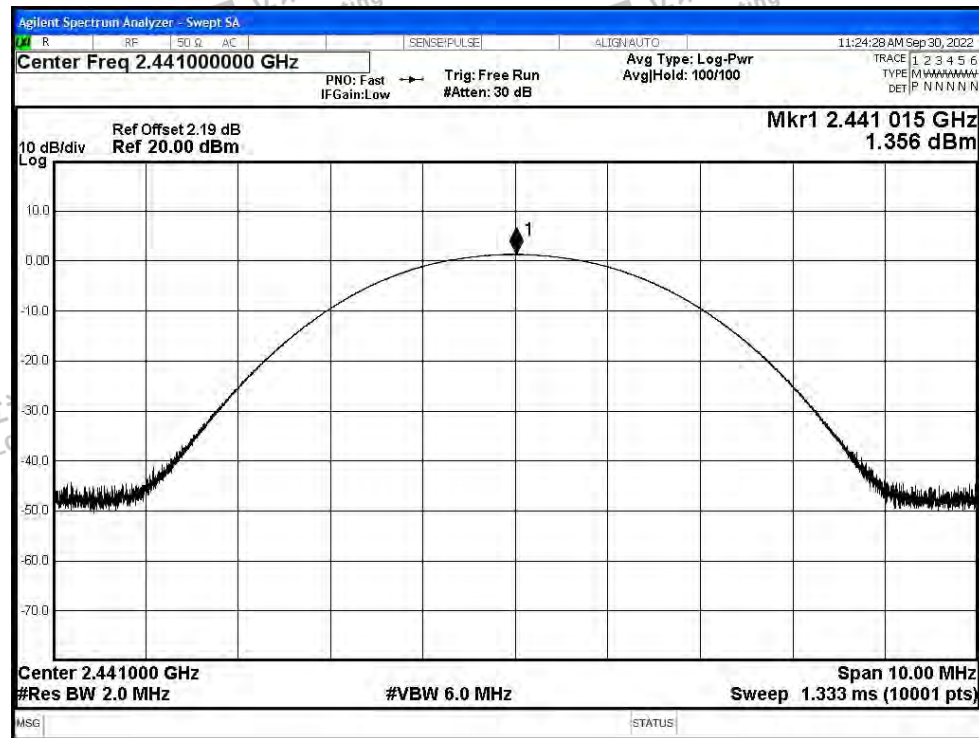


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

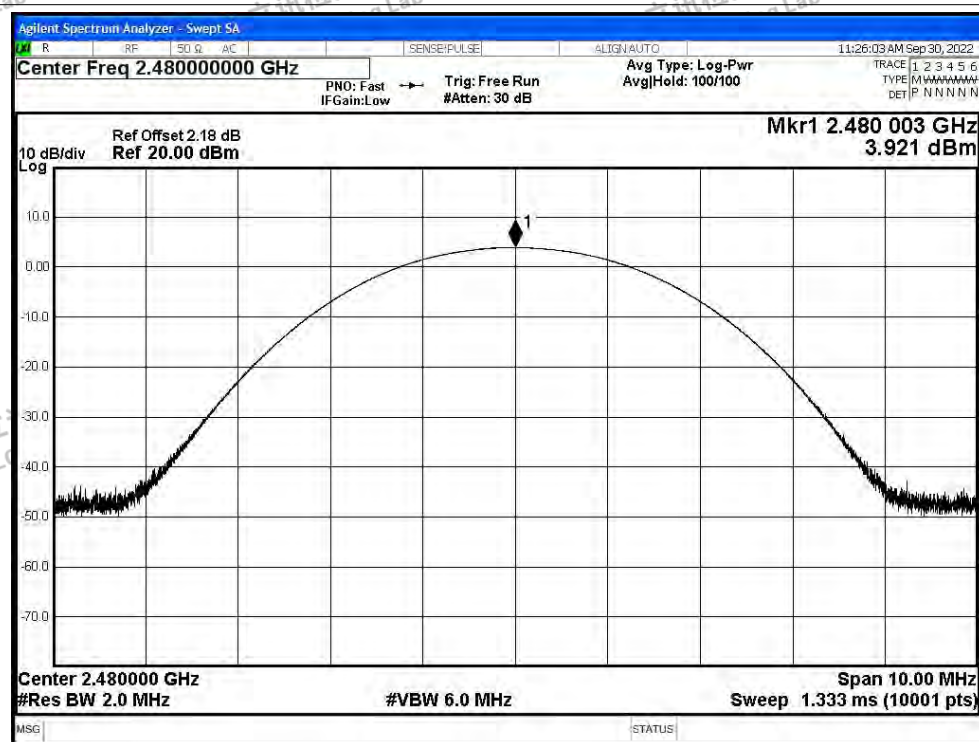


Power NVNT 1-DH5 2441MHz Ant1

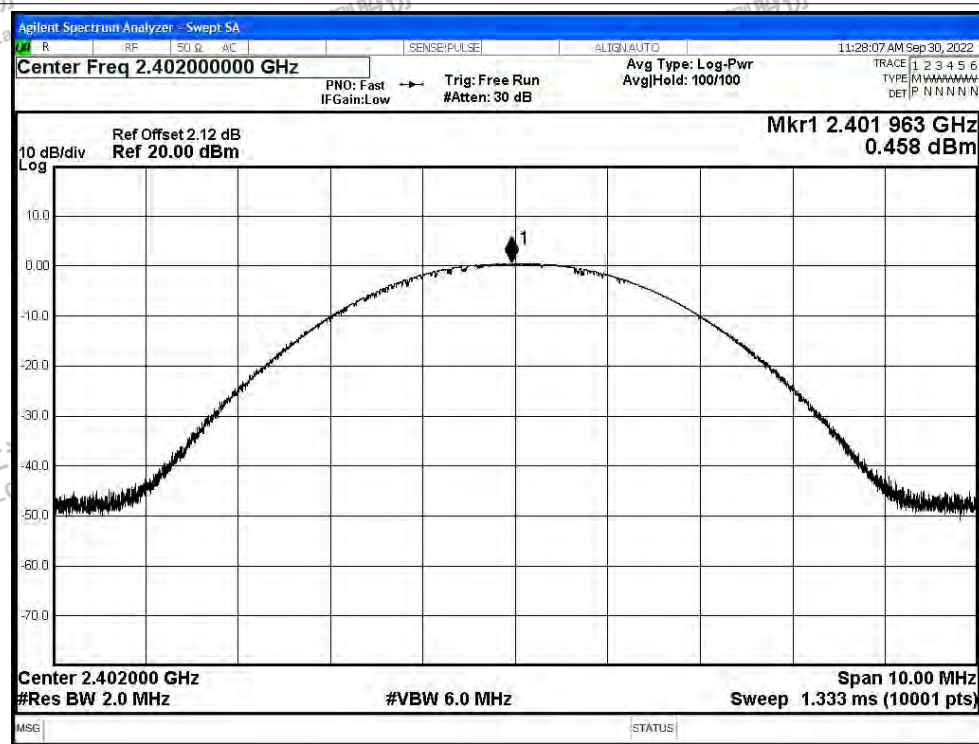




Power NVNT 1-DH5 2480MHz Ant1

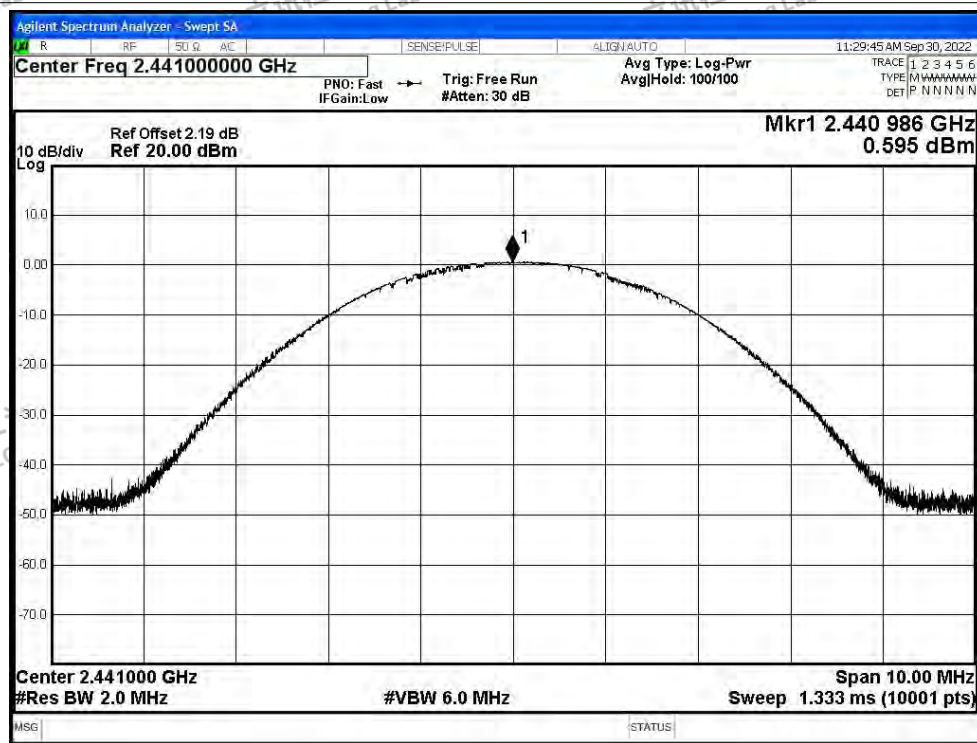


Power NVNT 2-DH5 2402MHz Ant1

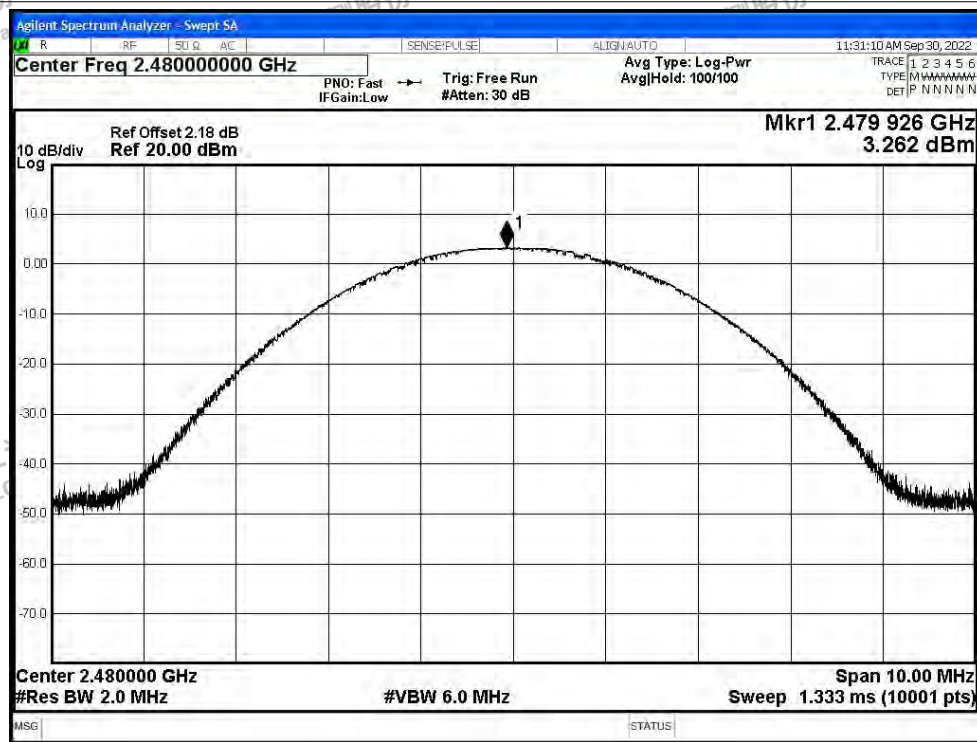




Power NVNT 2-DH5 2441MHz Ant1

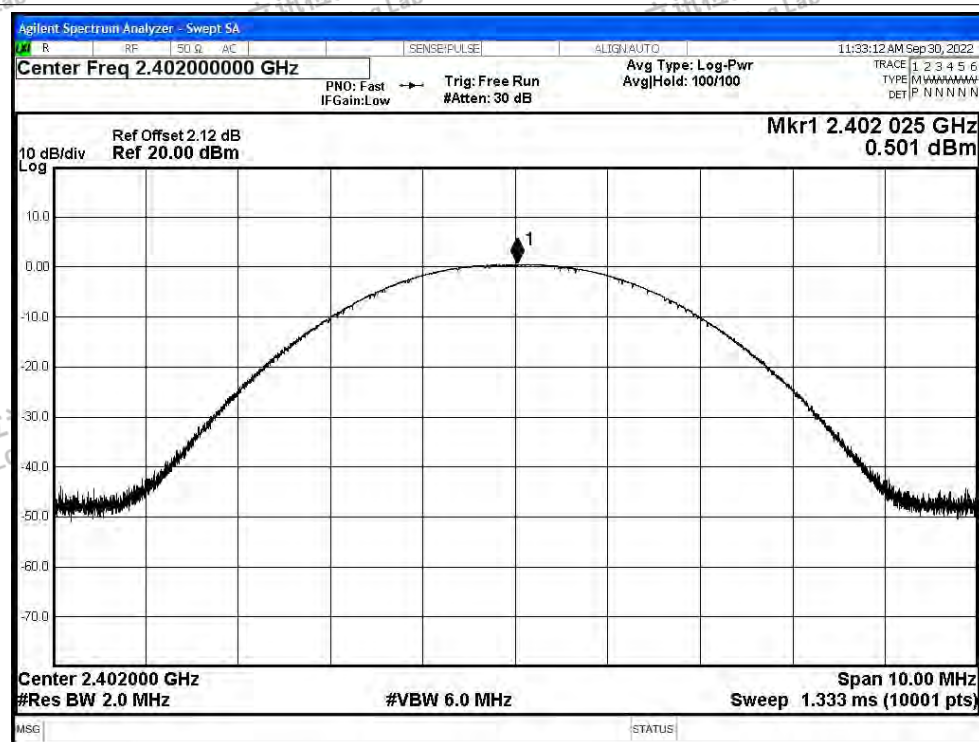


Power NVNT 2-DH5 2480MHz Ant1

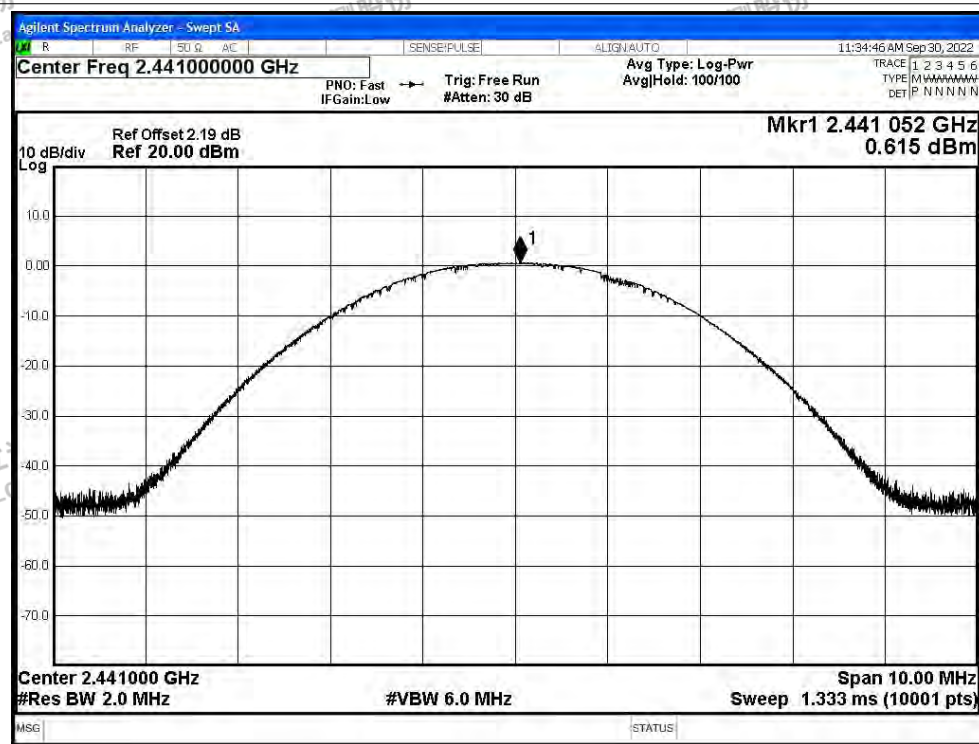


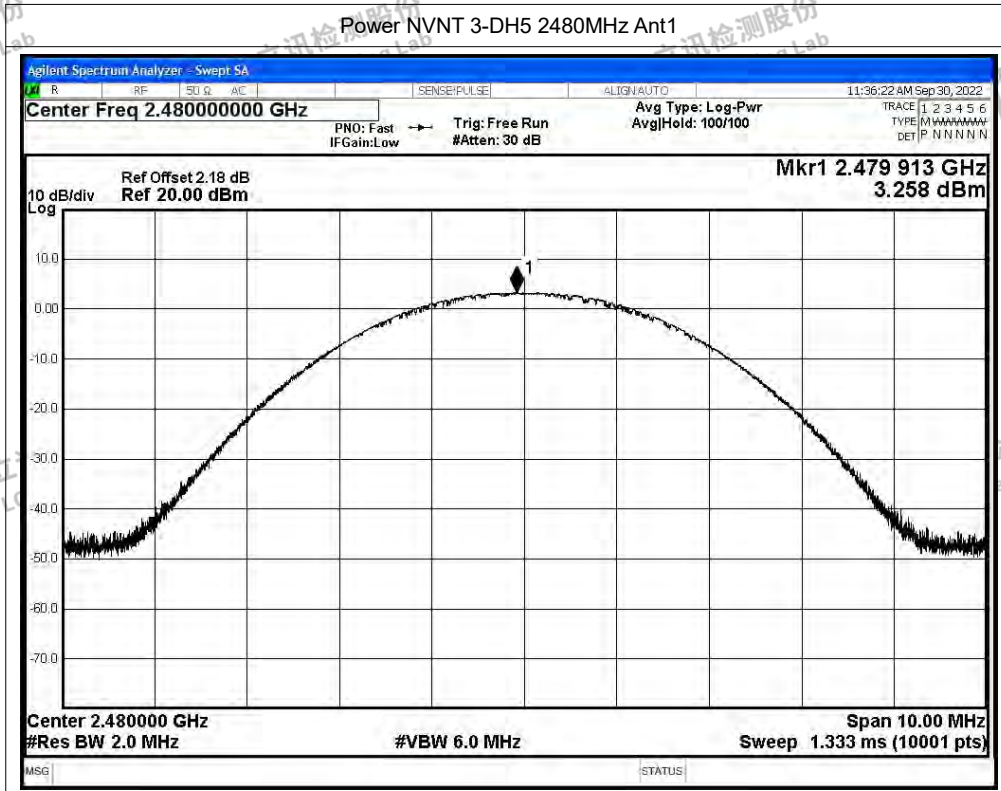


Power NVNT 3-DH5 2402MHz Ant1



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	2401.968	2403.154	1.186	0.54	Pass
NVNT	2-DH5	Ant1	2402.008	2403.158	1.15	0.845	Pass
NVNT	3-DH5	Ant1	2402.014	2402.998	0.984	0.857	Pass

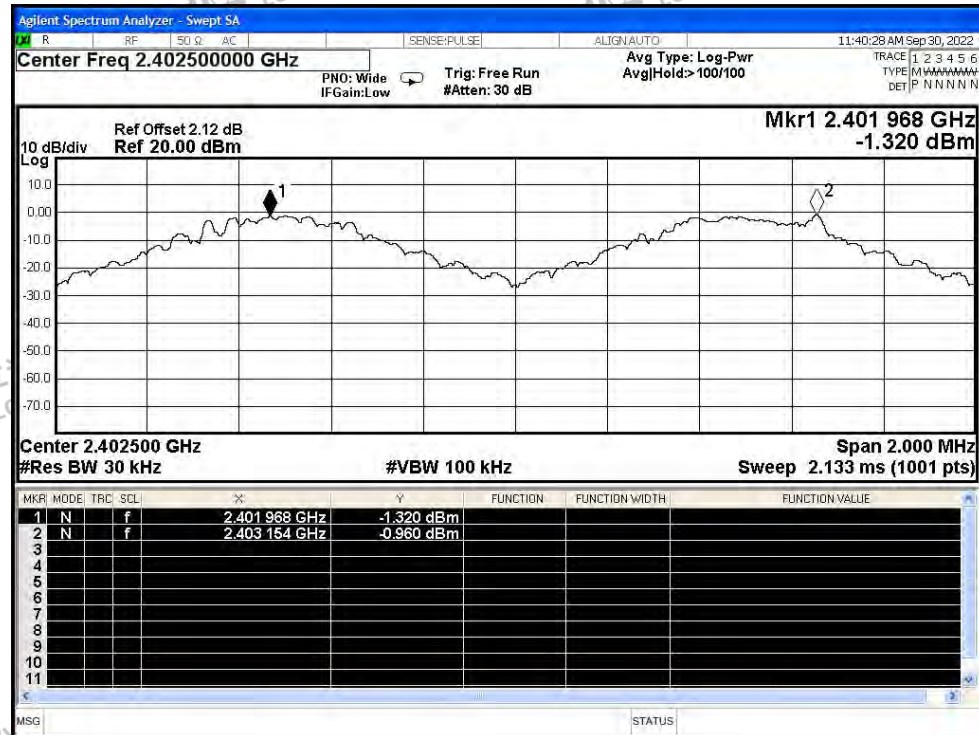


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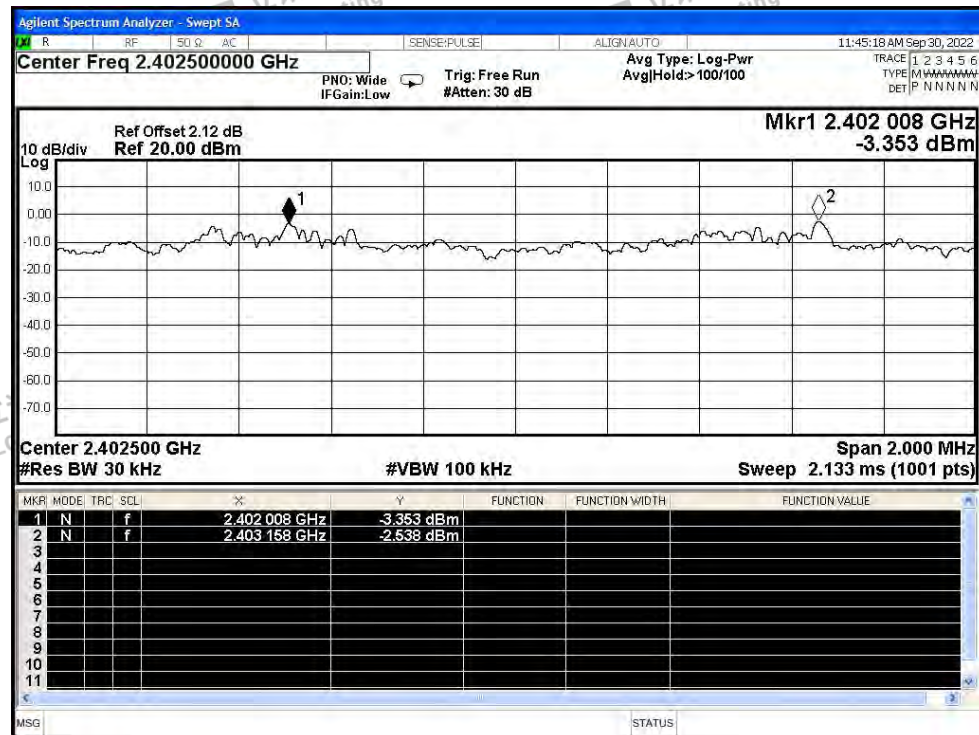


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

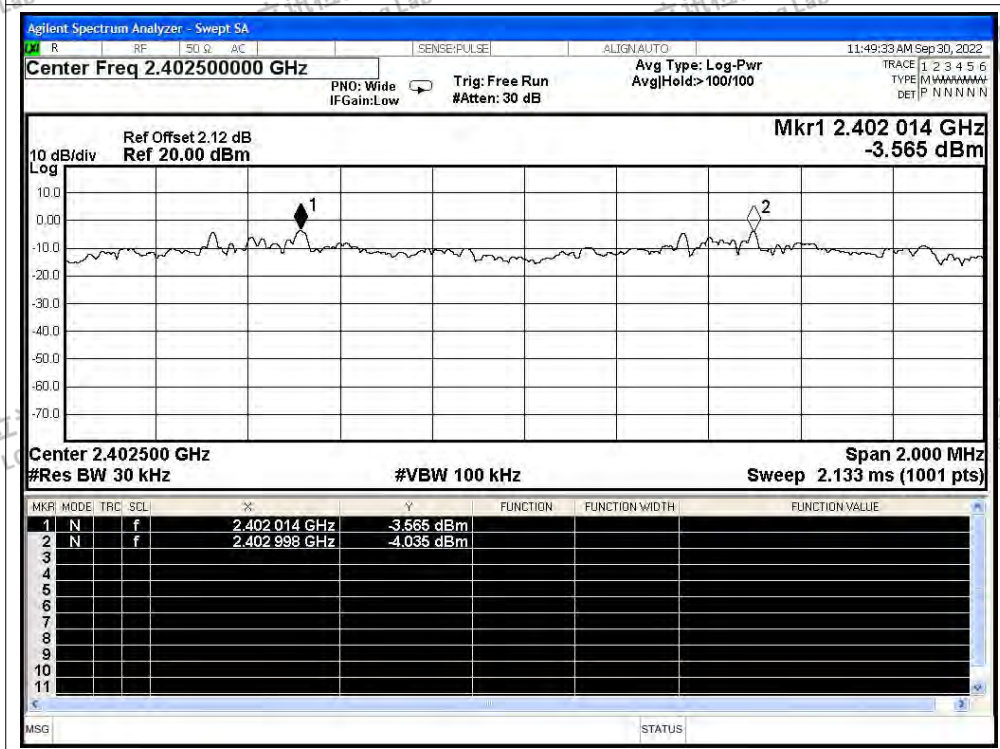


CFS NVNT 2-DH5 2402MHz Ant1





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	334.312	116	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	311.58	108	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	311.688	108	31600	400	Pass

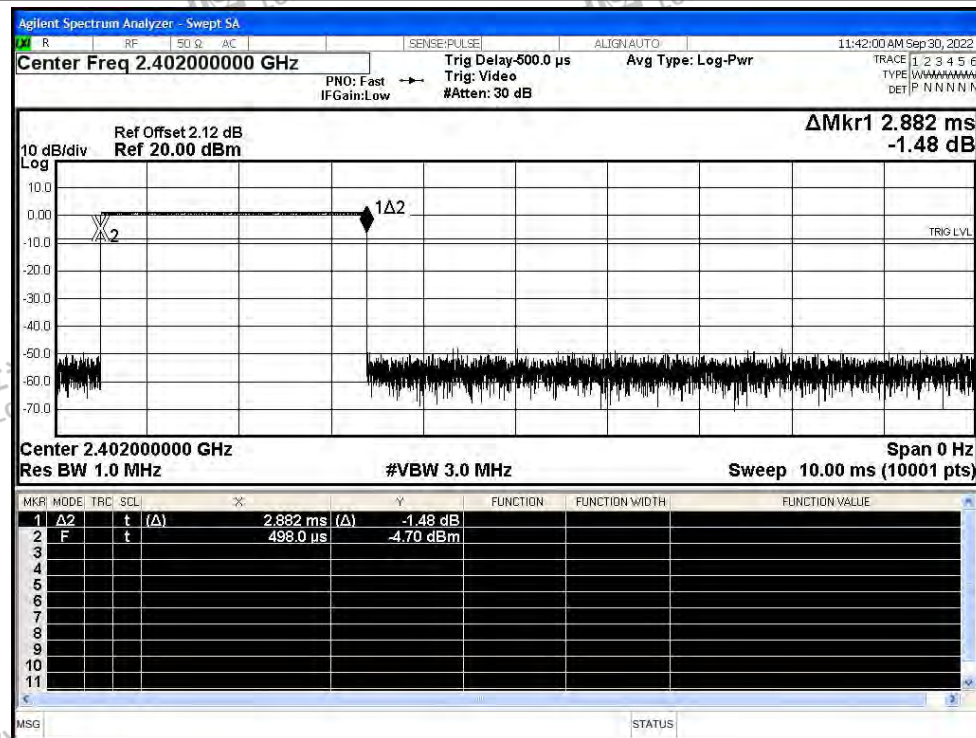


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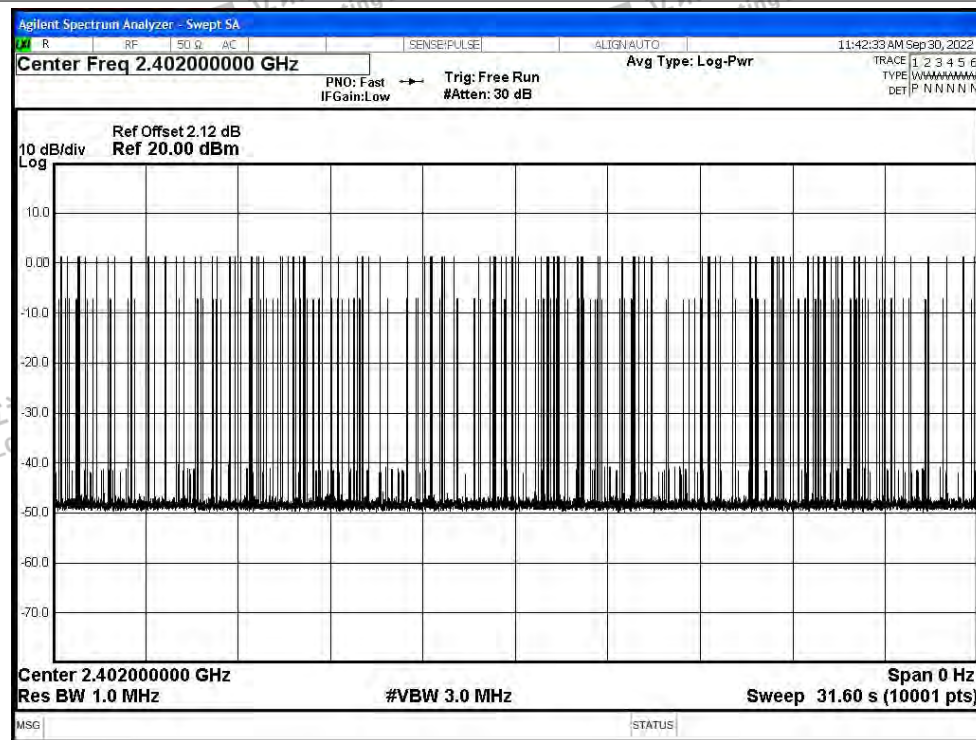


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

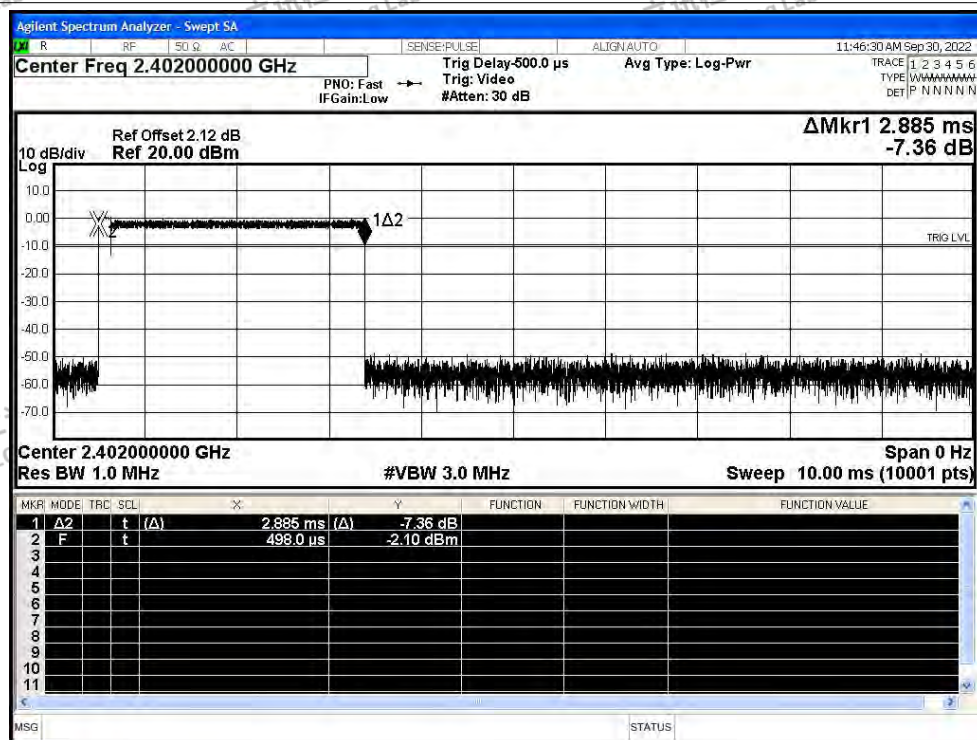


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

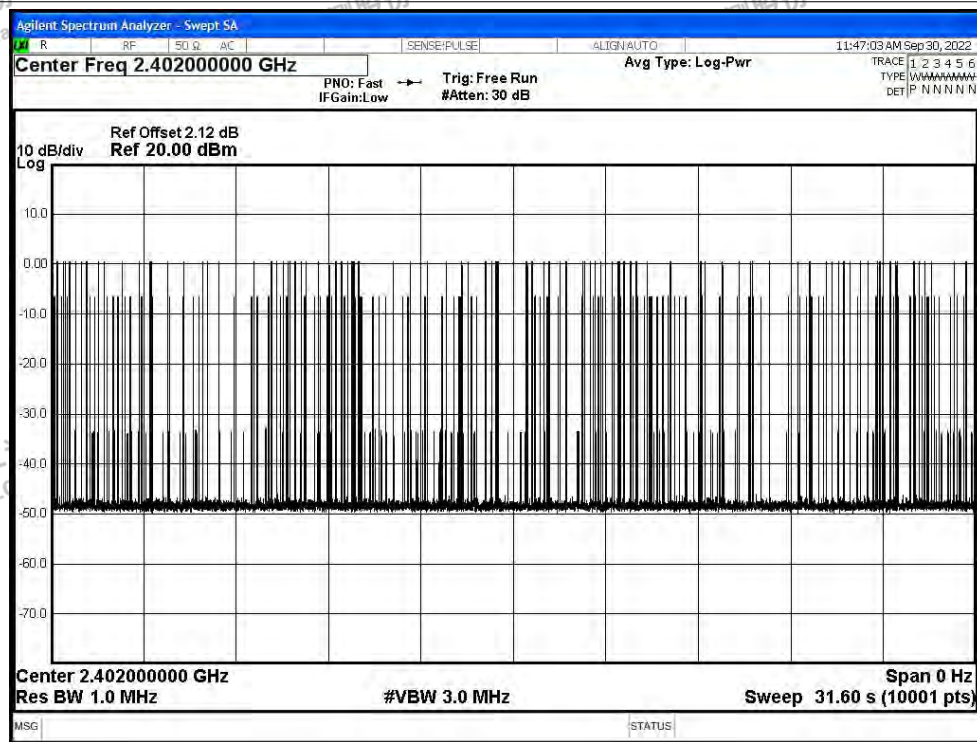




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

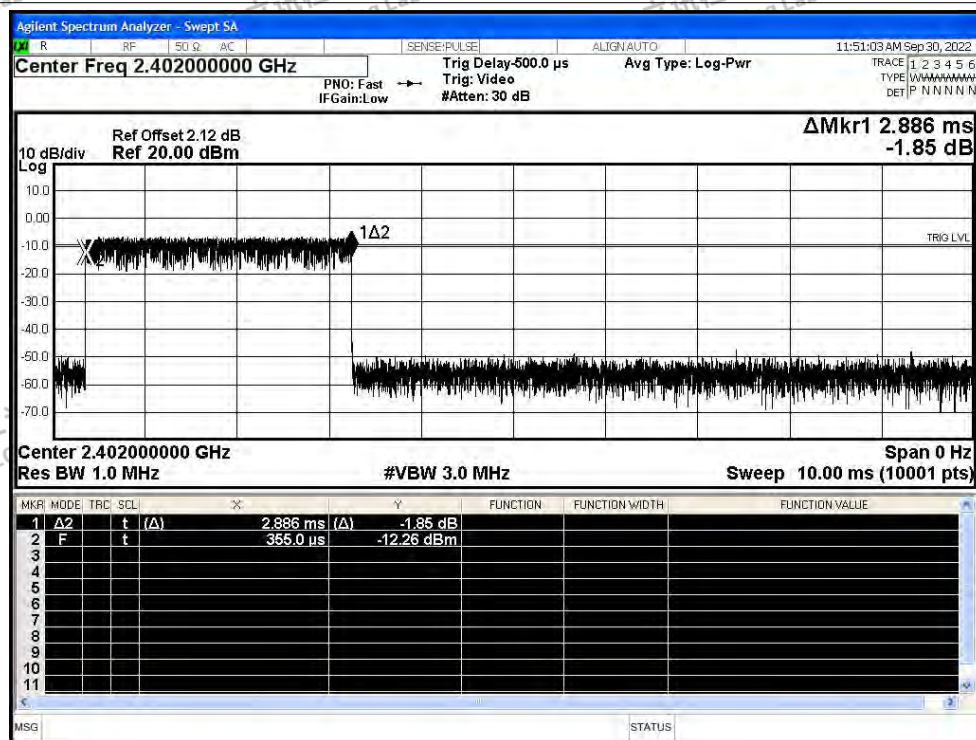


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

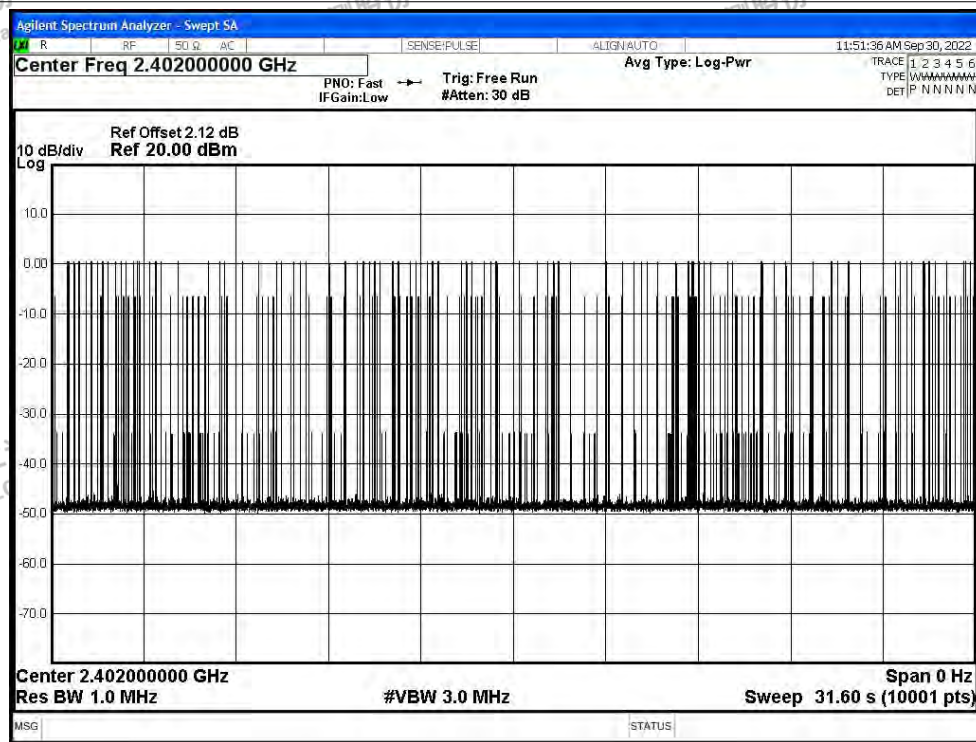




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

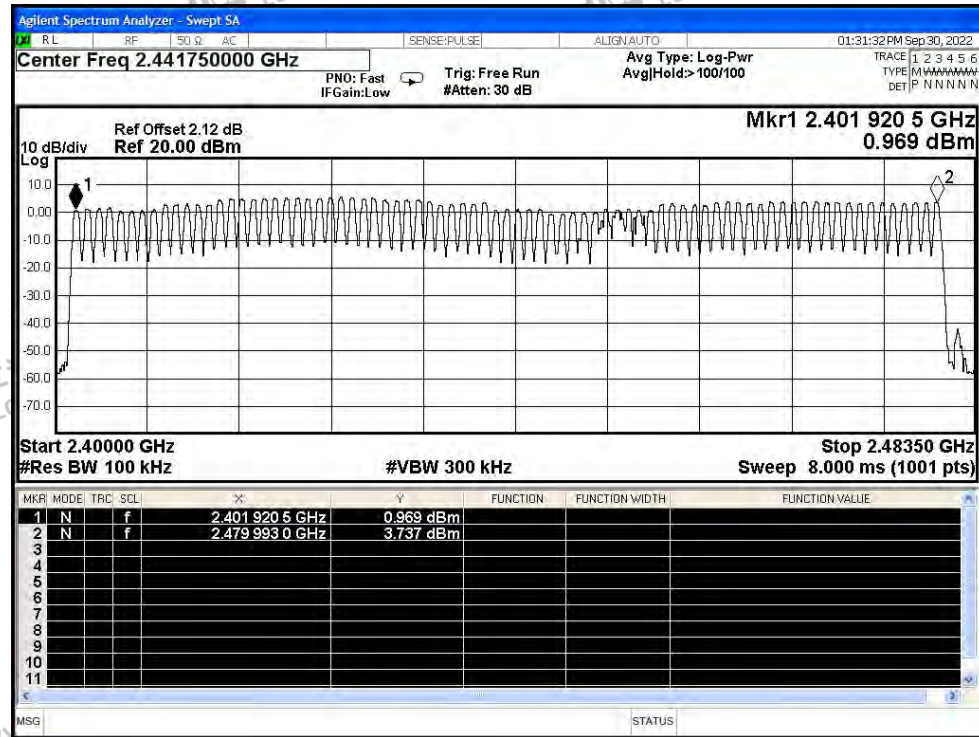


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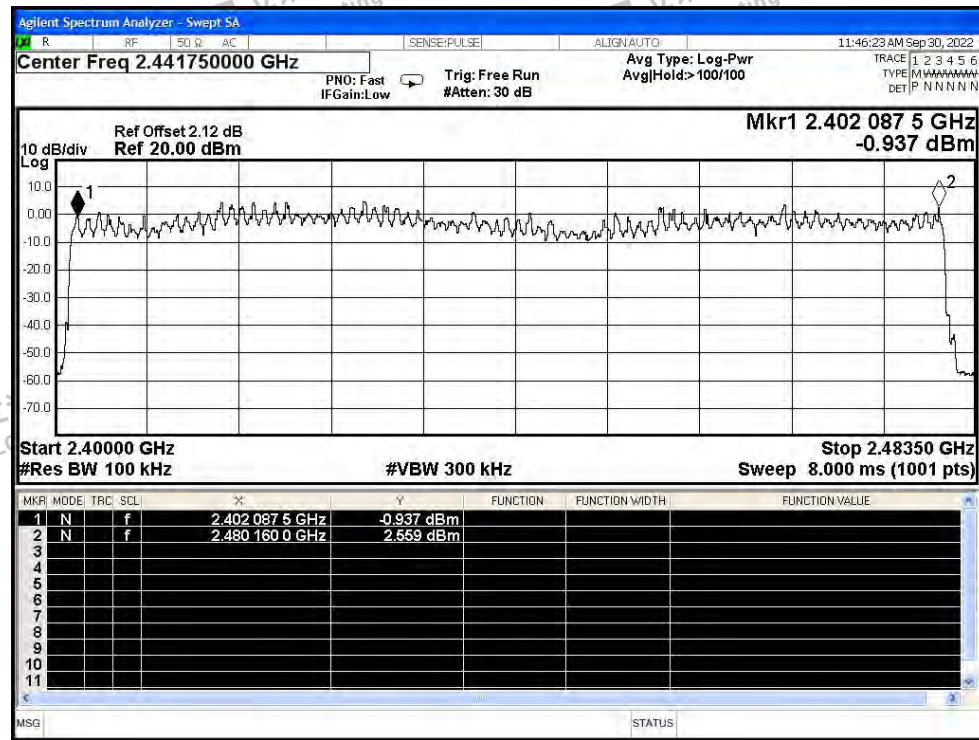


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

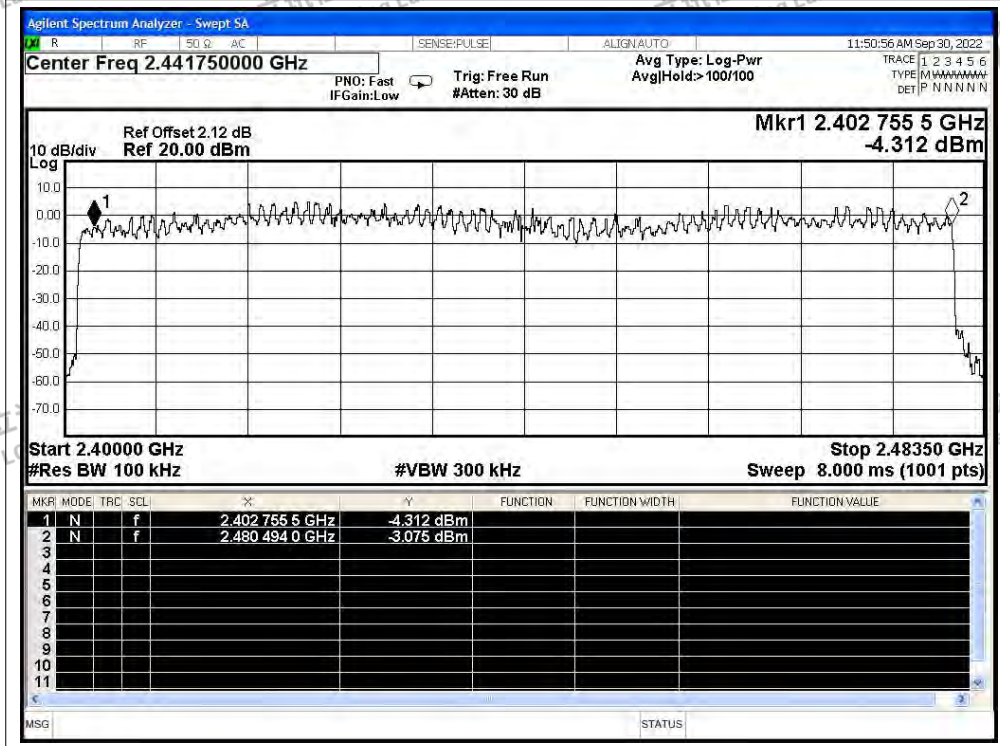


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1



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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-58.14	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-60.5	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.56	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-58.62	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-57.13	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-59.58	-20	Pass

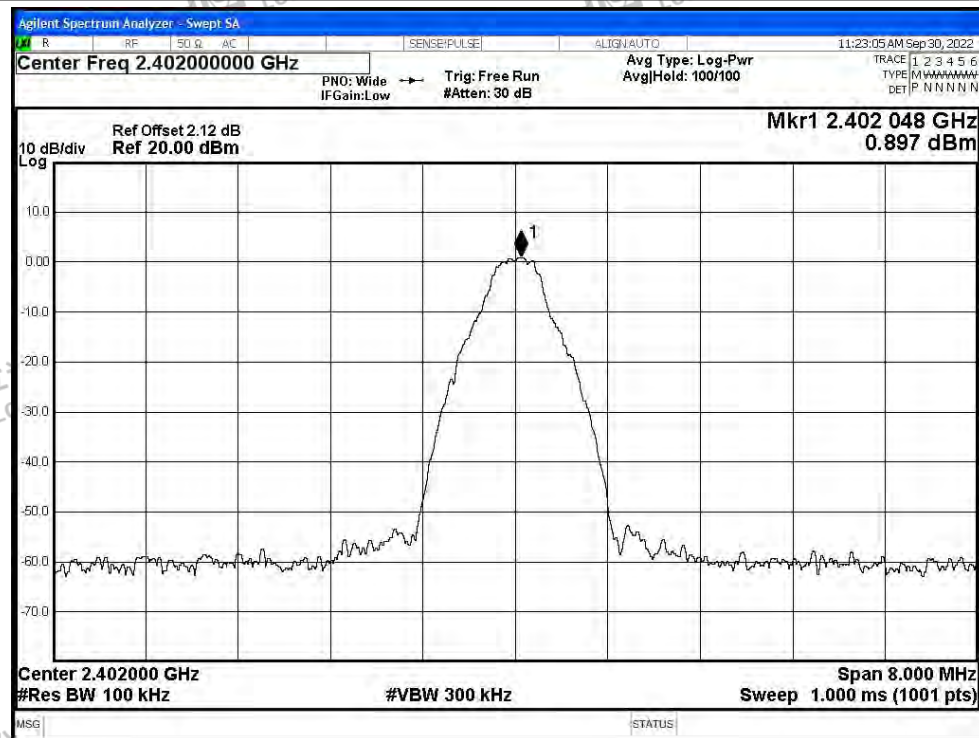


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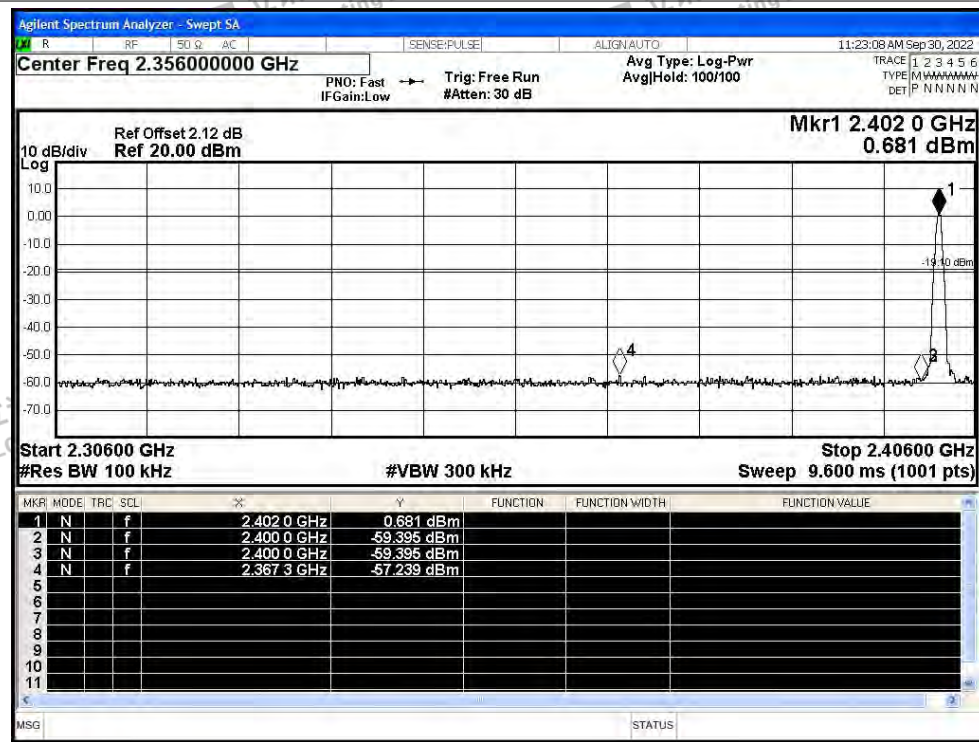


Test Graphs

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

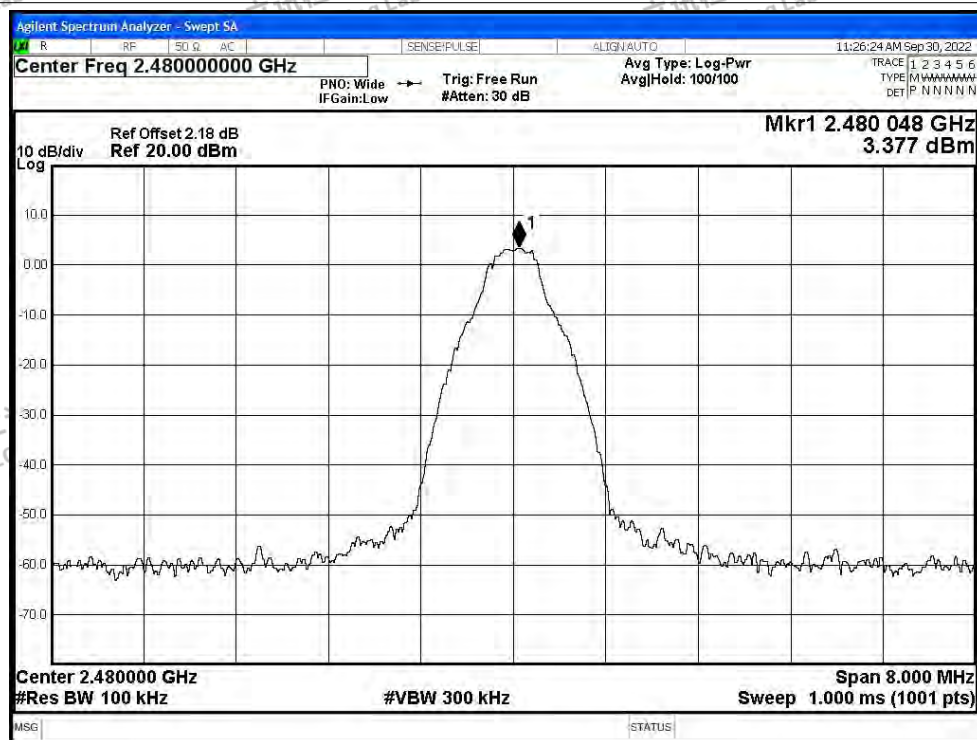


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

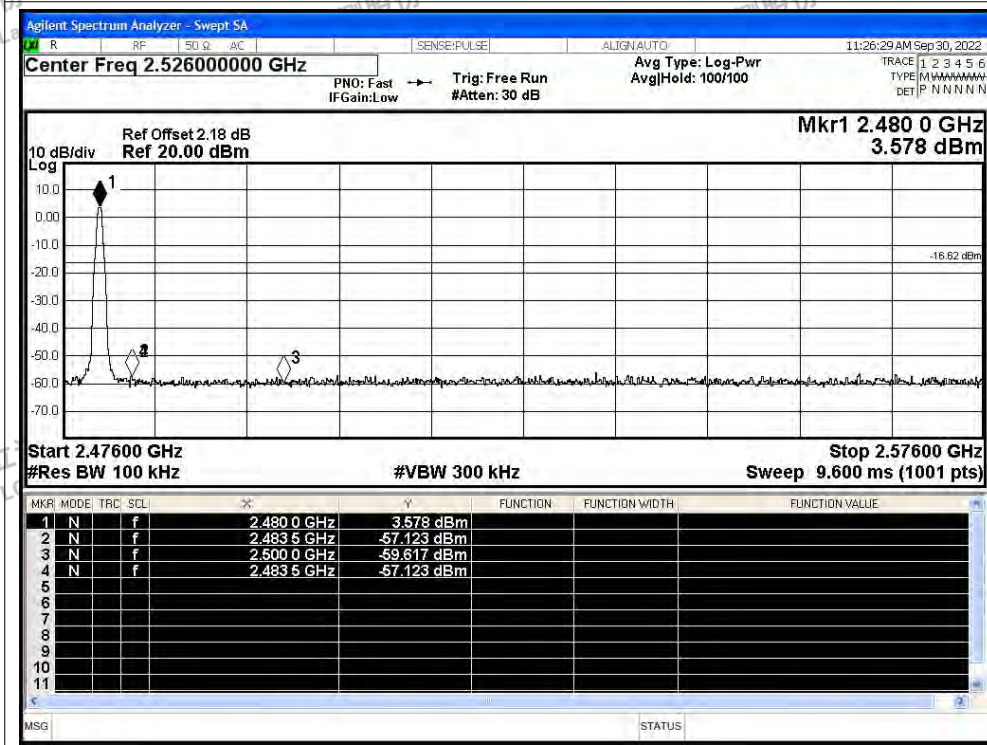




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

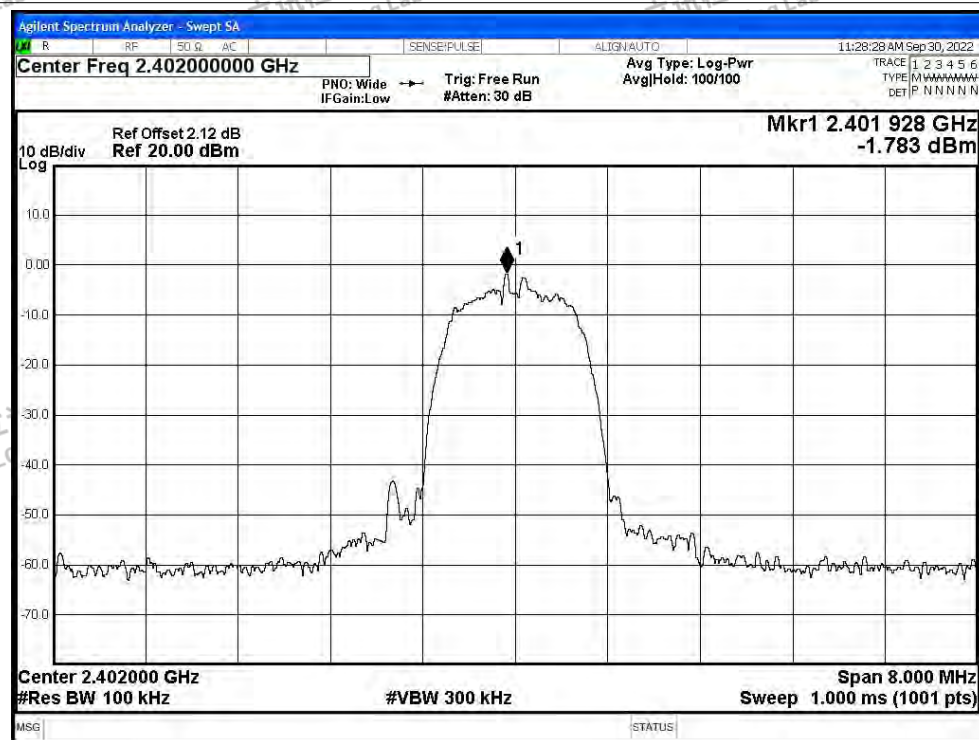


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

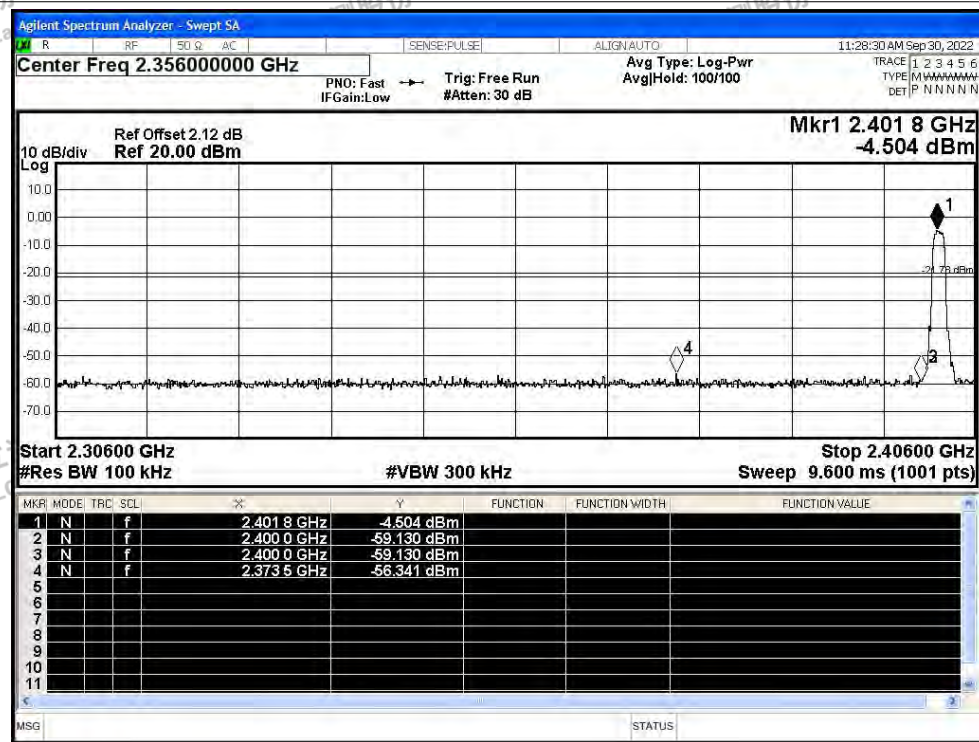




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

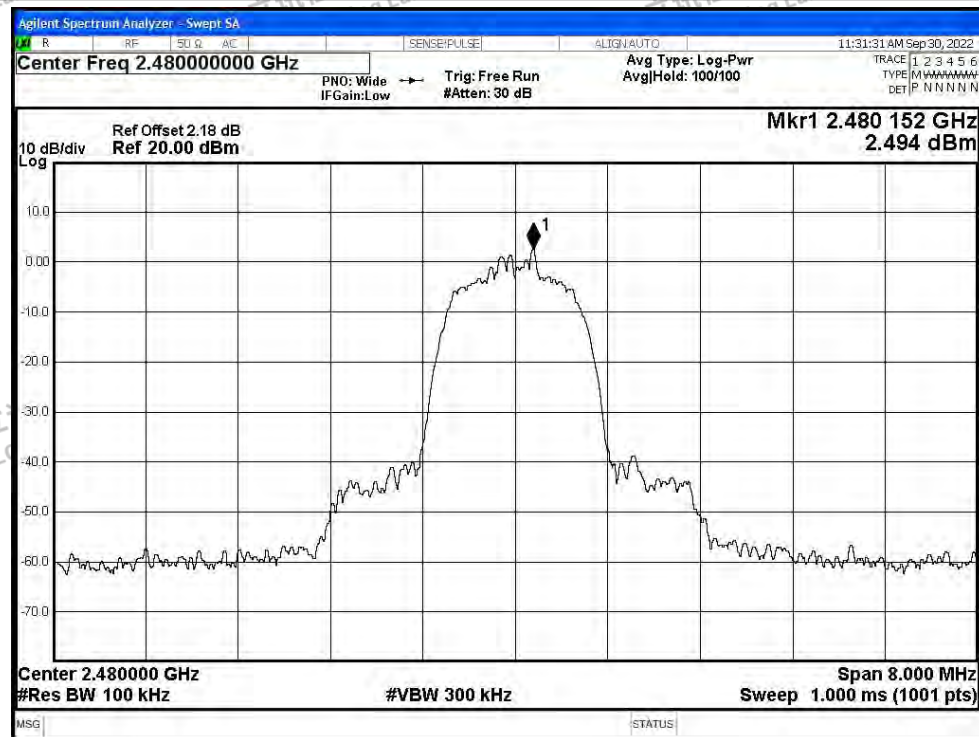


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

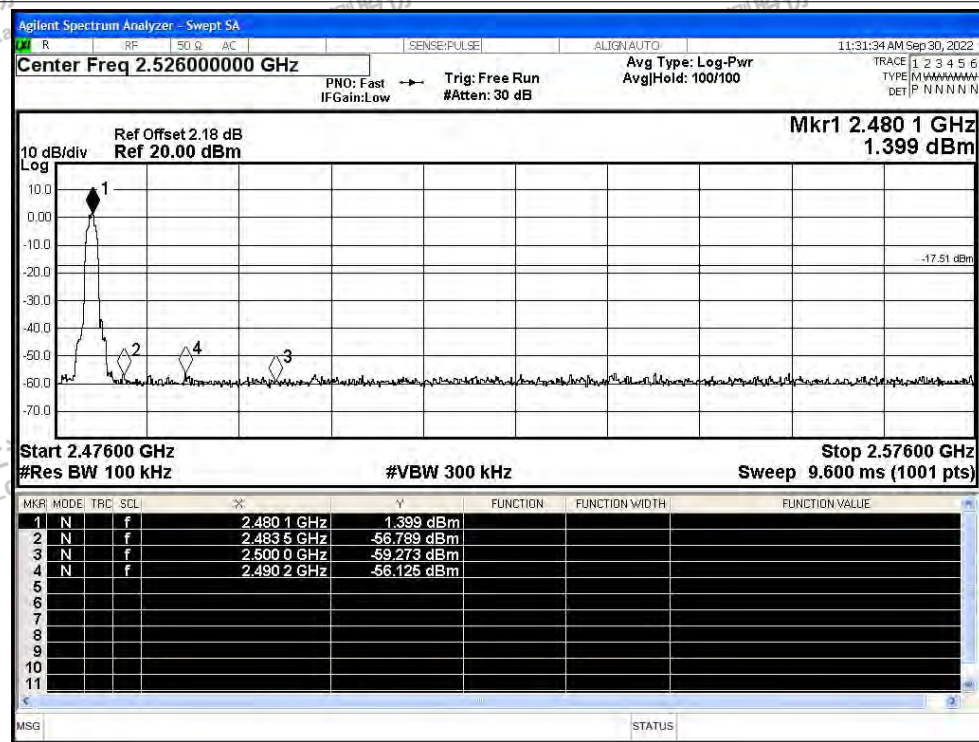




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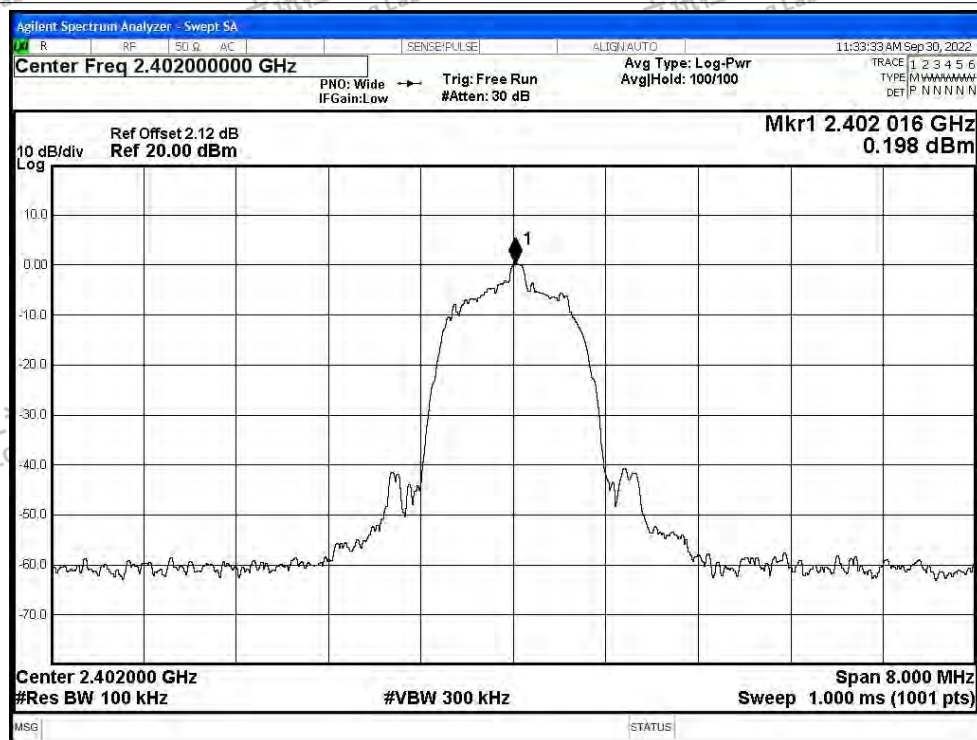


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

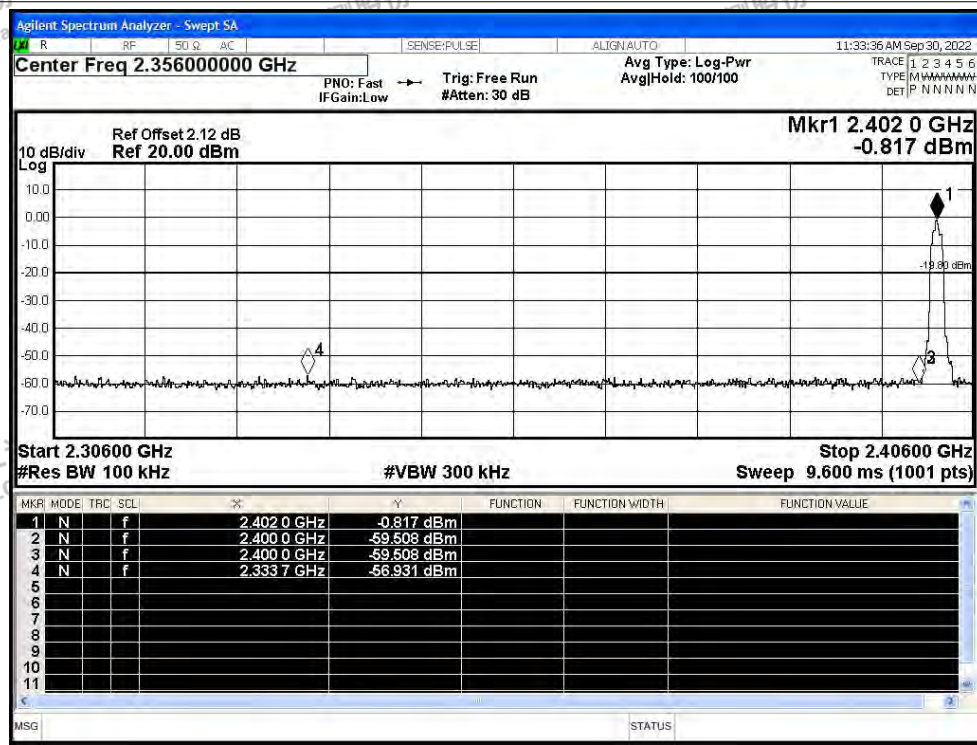




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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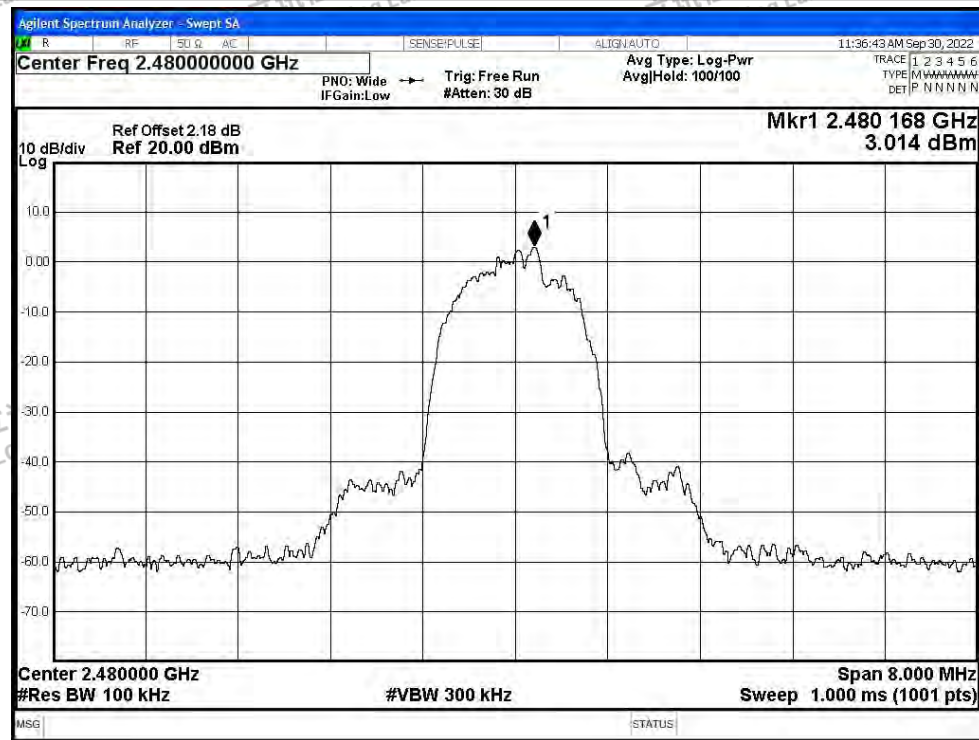
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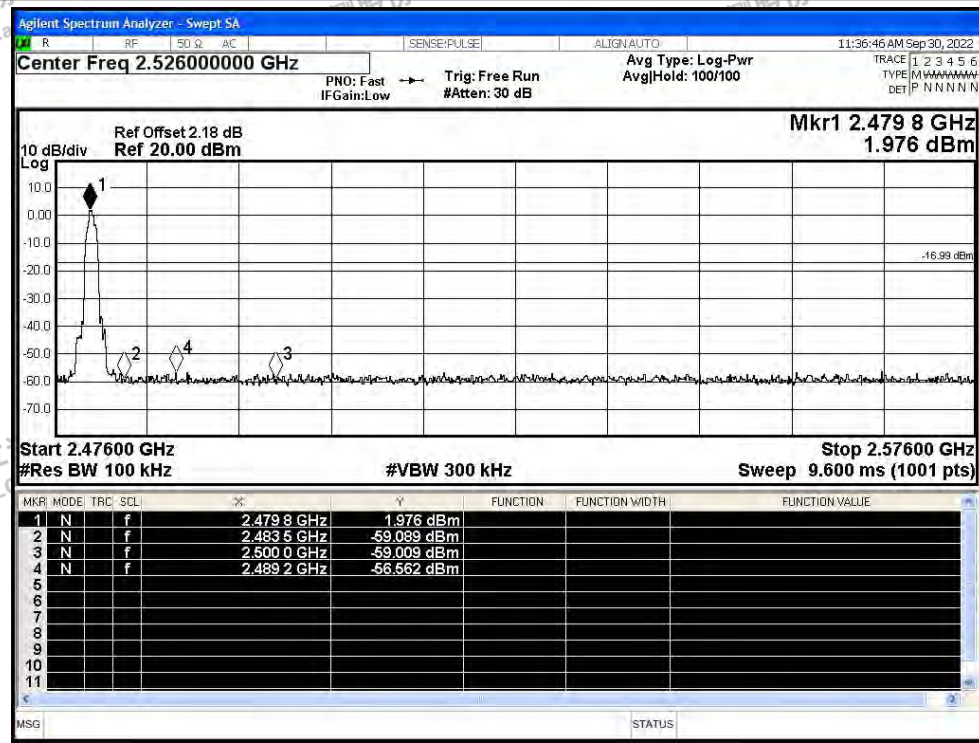
Scan code to check authenticity



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	-57.37	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-59.94	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.48	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-58.57	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-55.58	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-59.5	-20	Pass

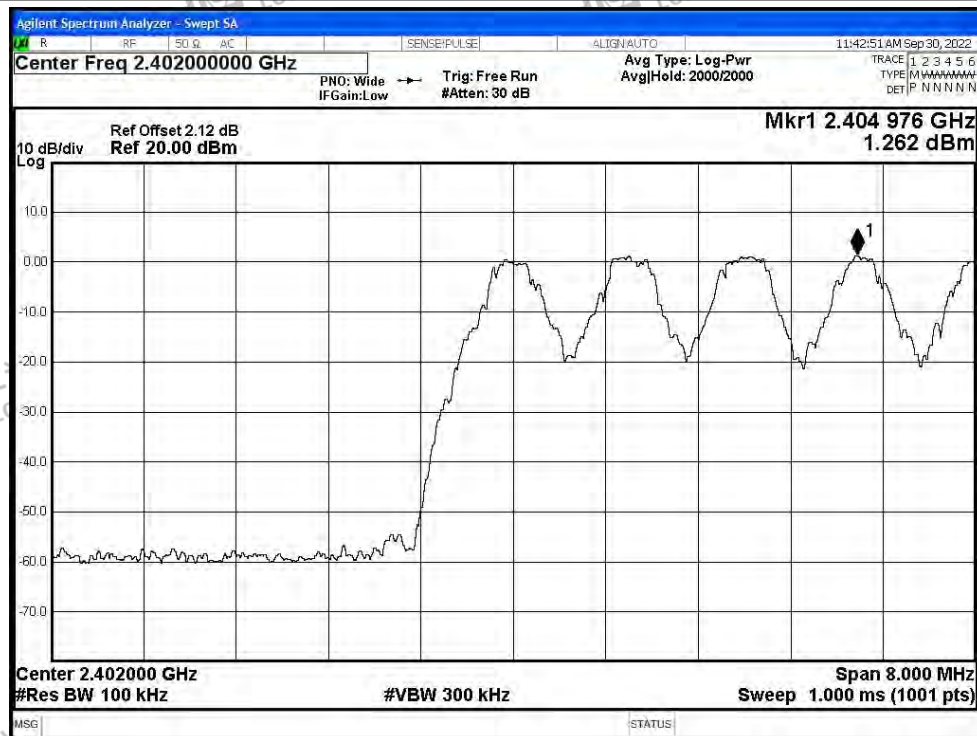


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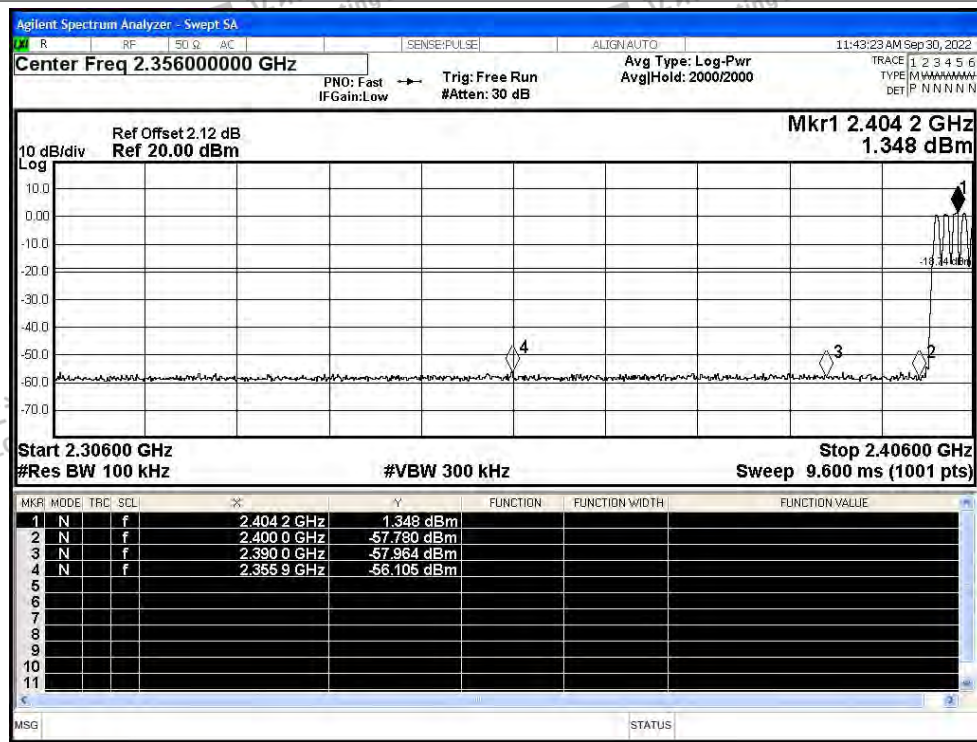


Test Graphs

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

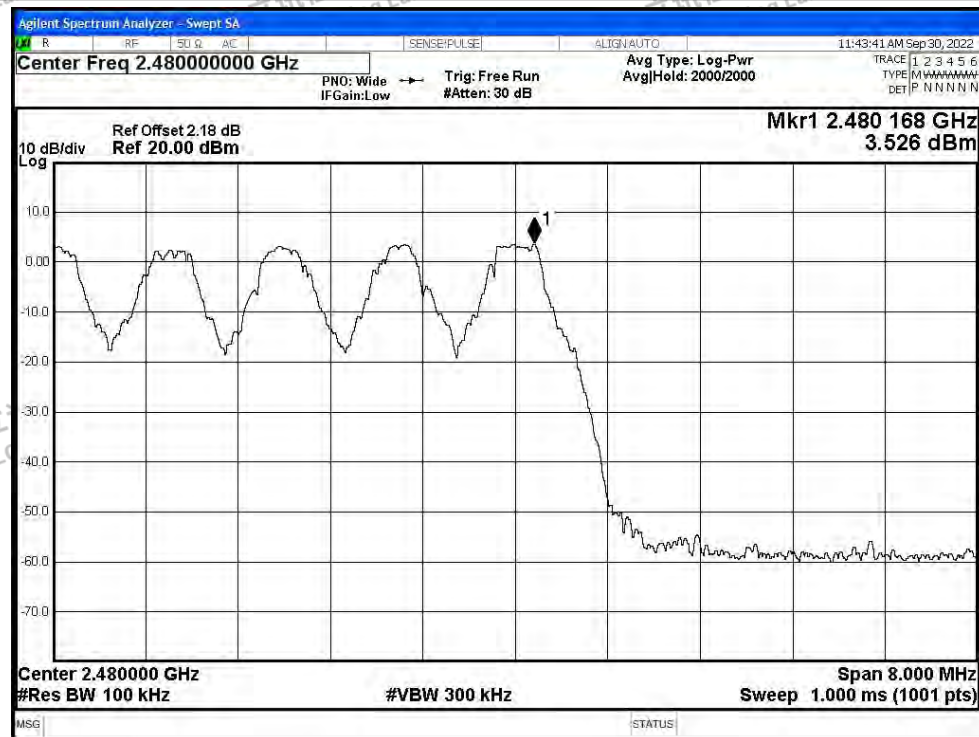


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

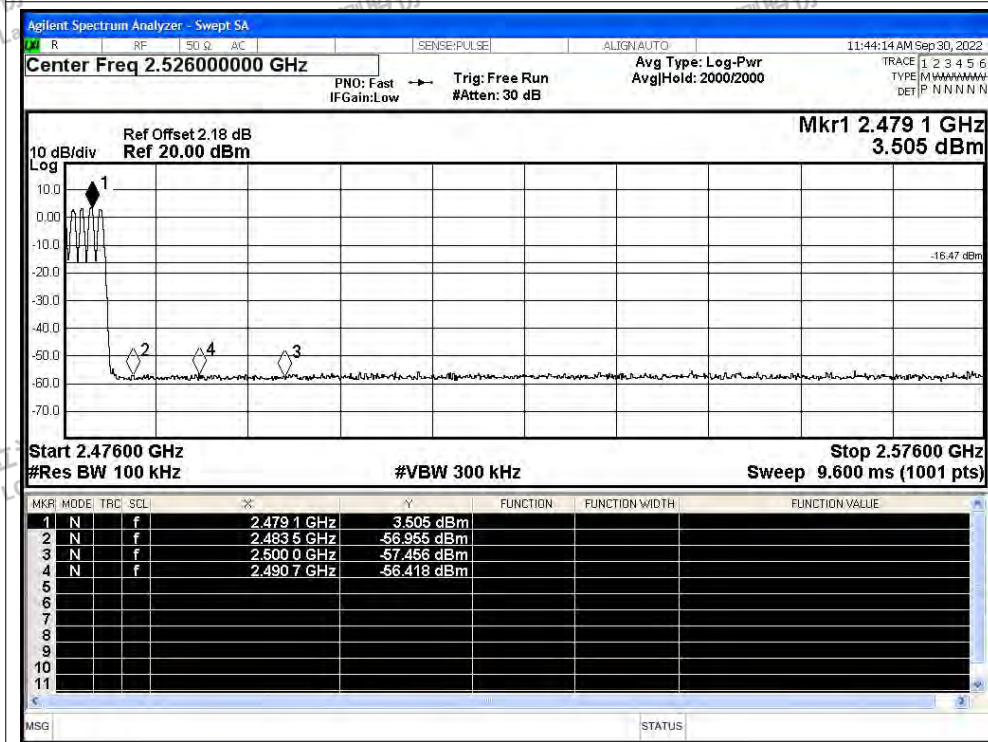




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

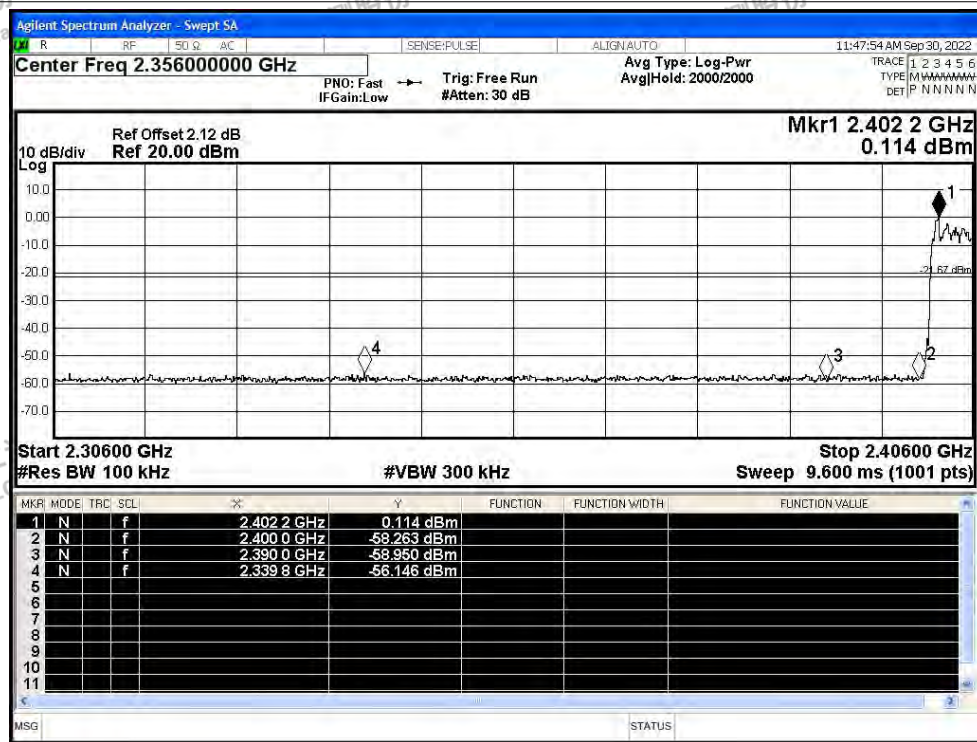




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

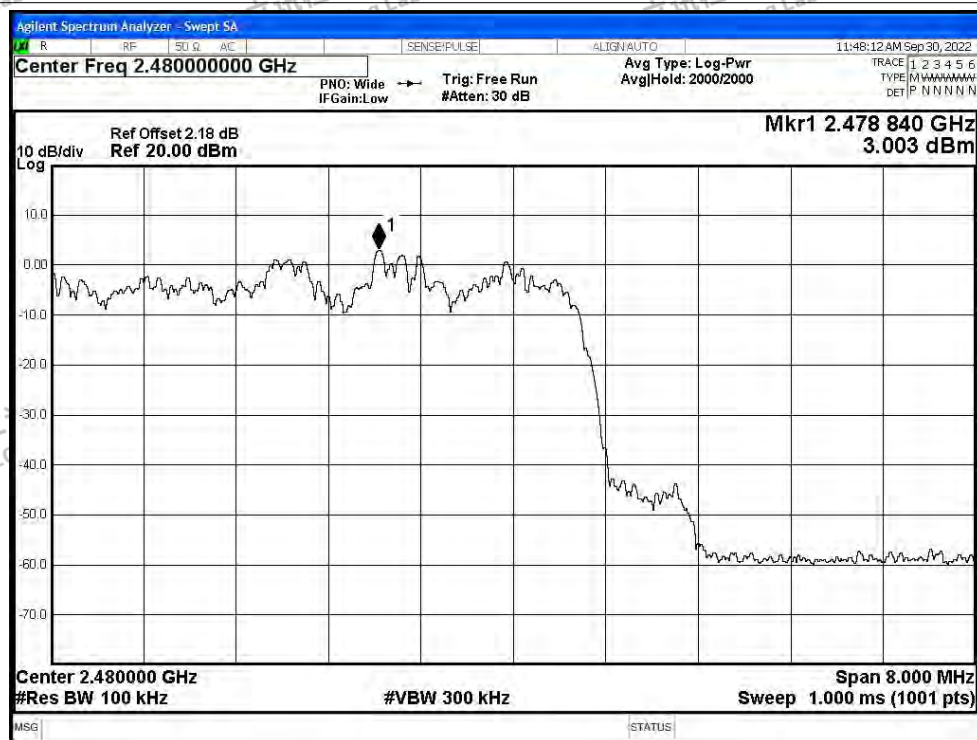


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

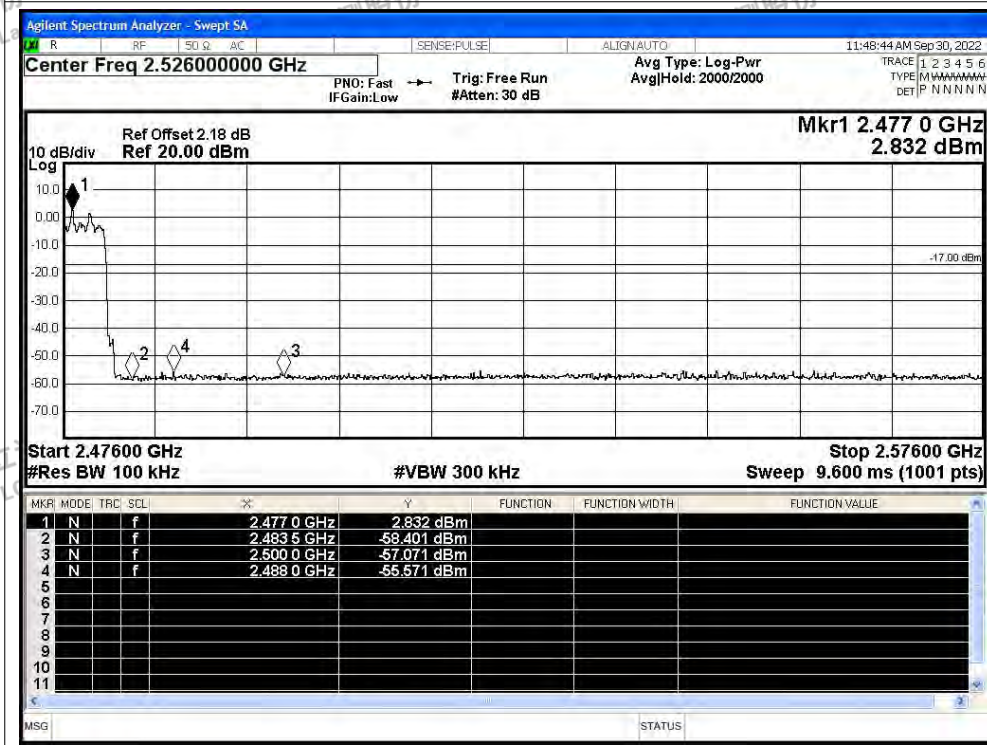




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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



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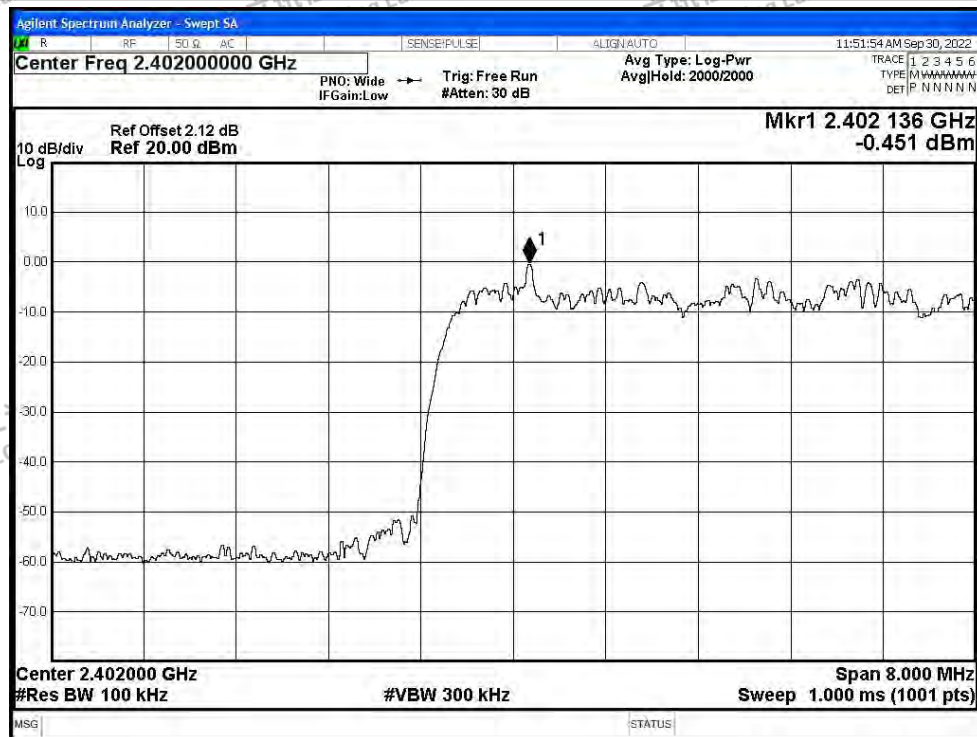
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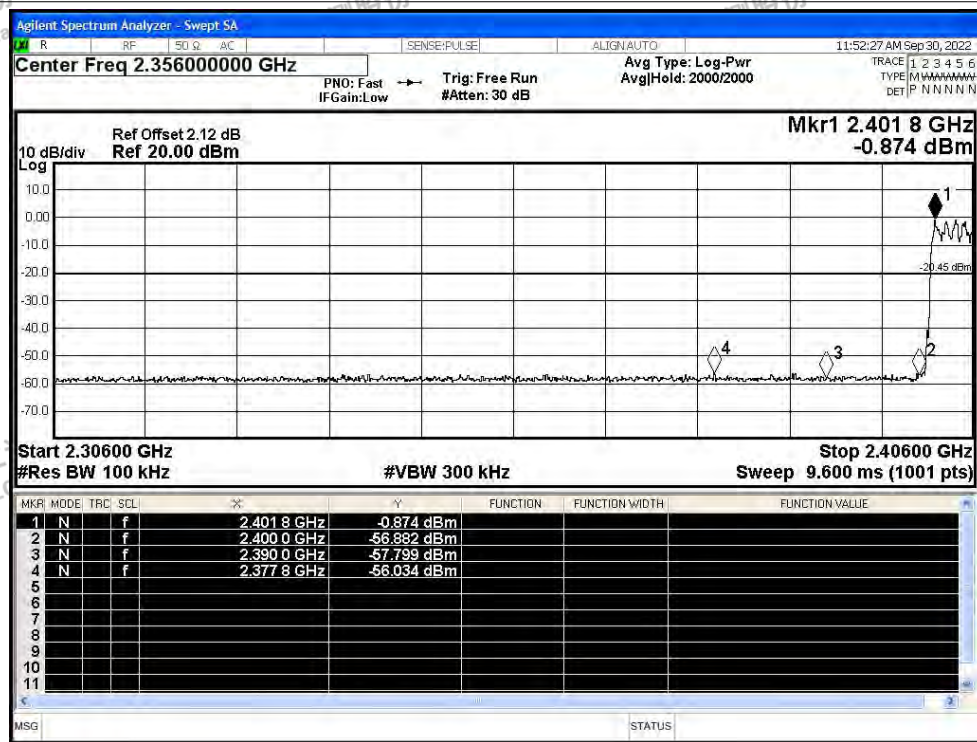
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Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

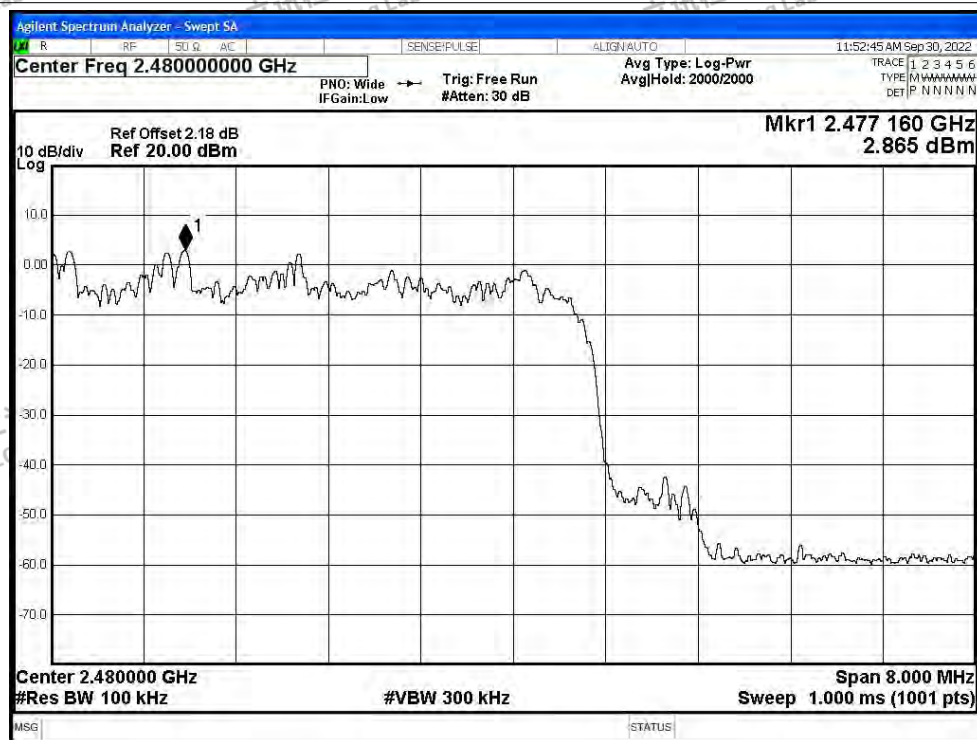


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

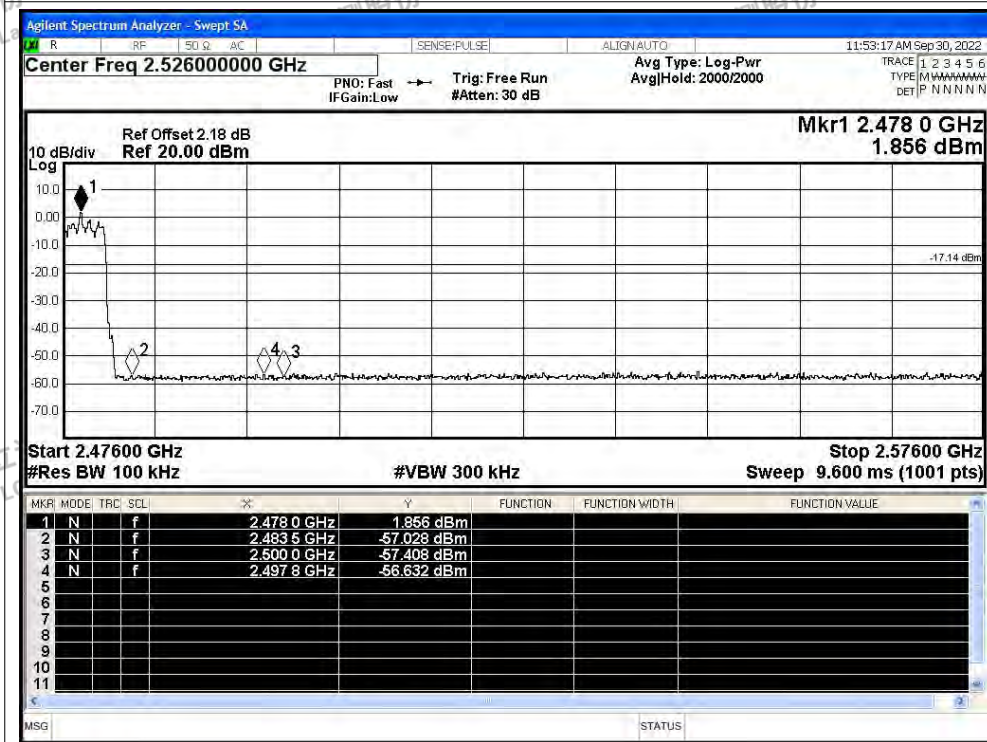




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-55.66	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.87	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.48	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.56	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.15	-20	Pass
NVNT	2-DH5	2480	Ant1	-56.65	-20	Pass
NVNT	3-DH5	2402	Ant1	-55.26	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.99	-20	Pass
NVNT	3-DH5	2480	Ant1	-58.55	-20	Pass



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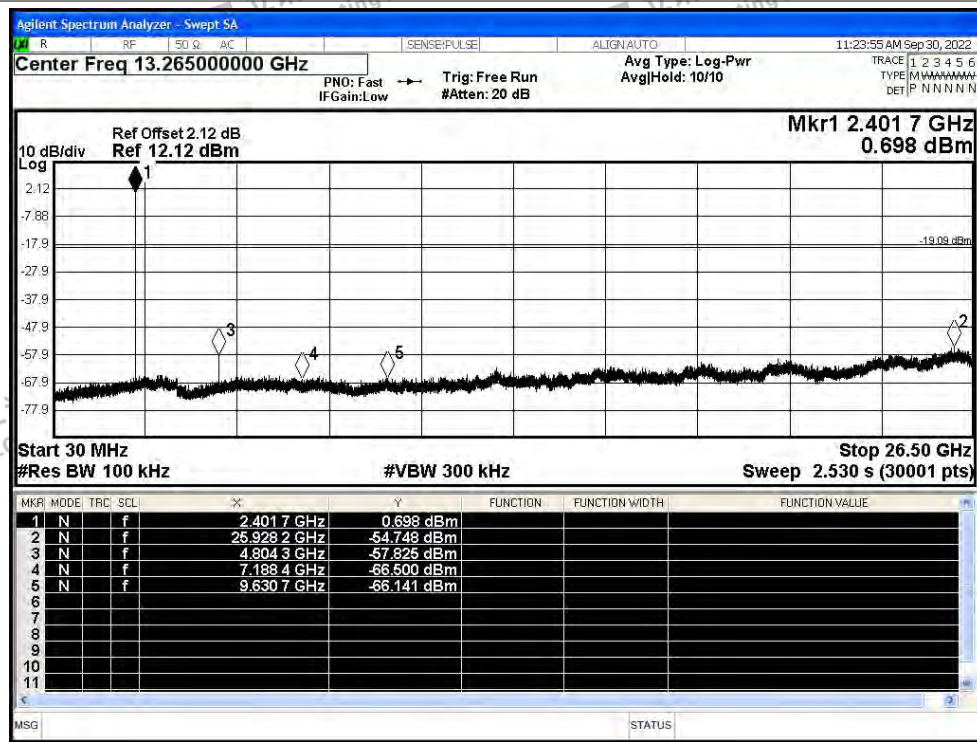


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

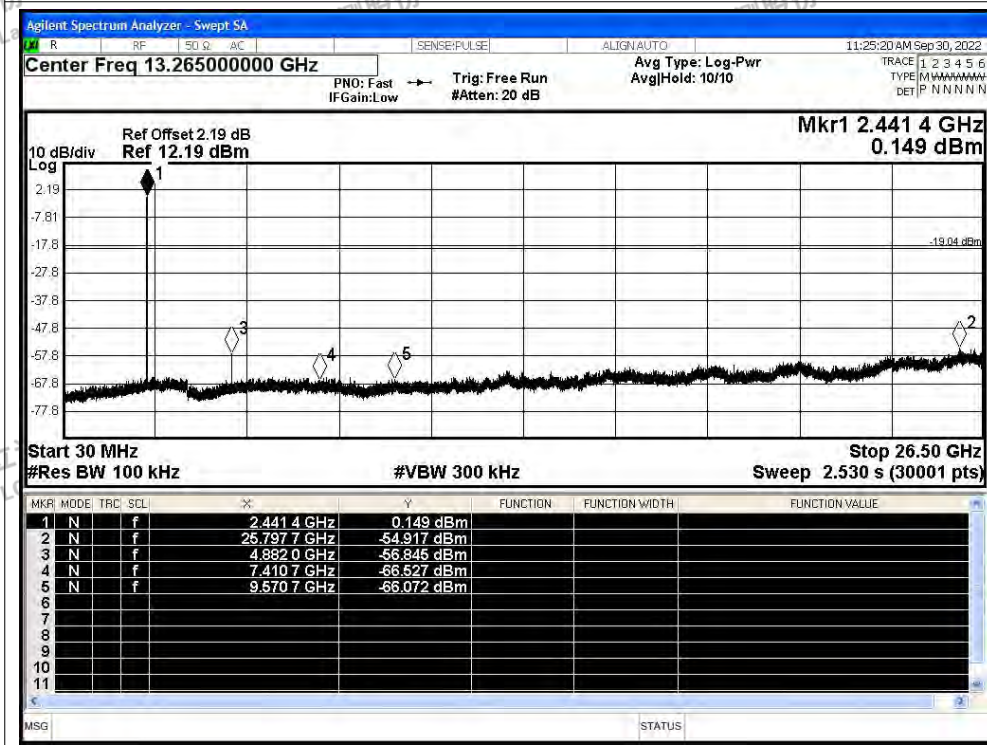




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

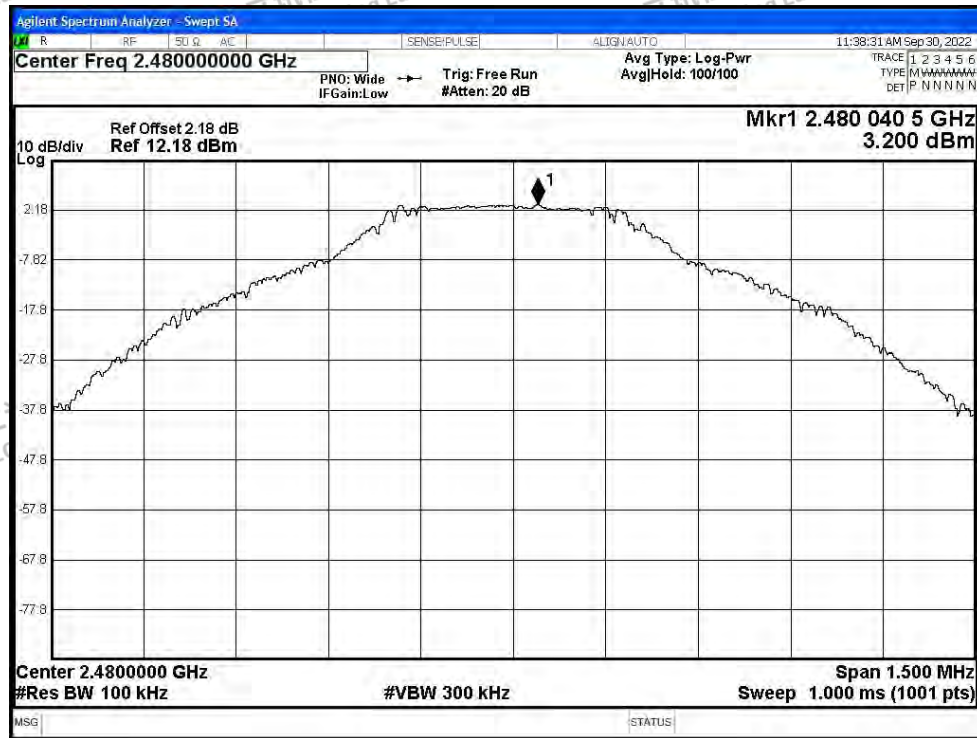


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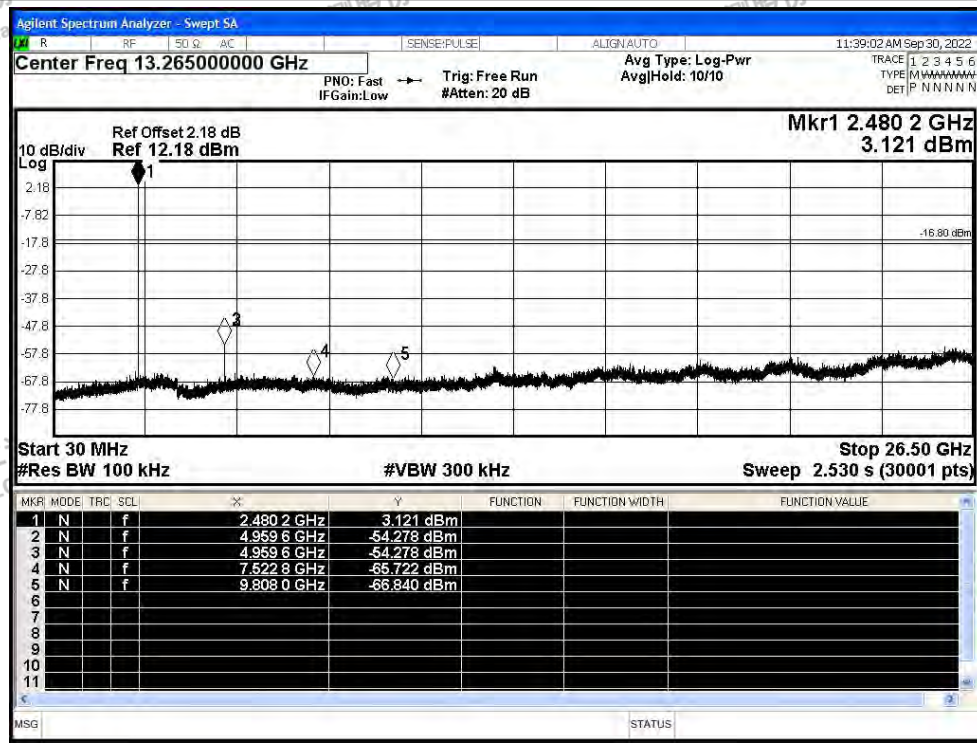




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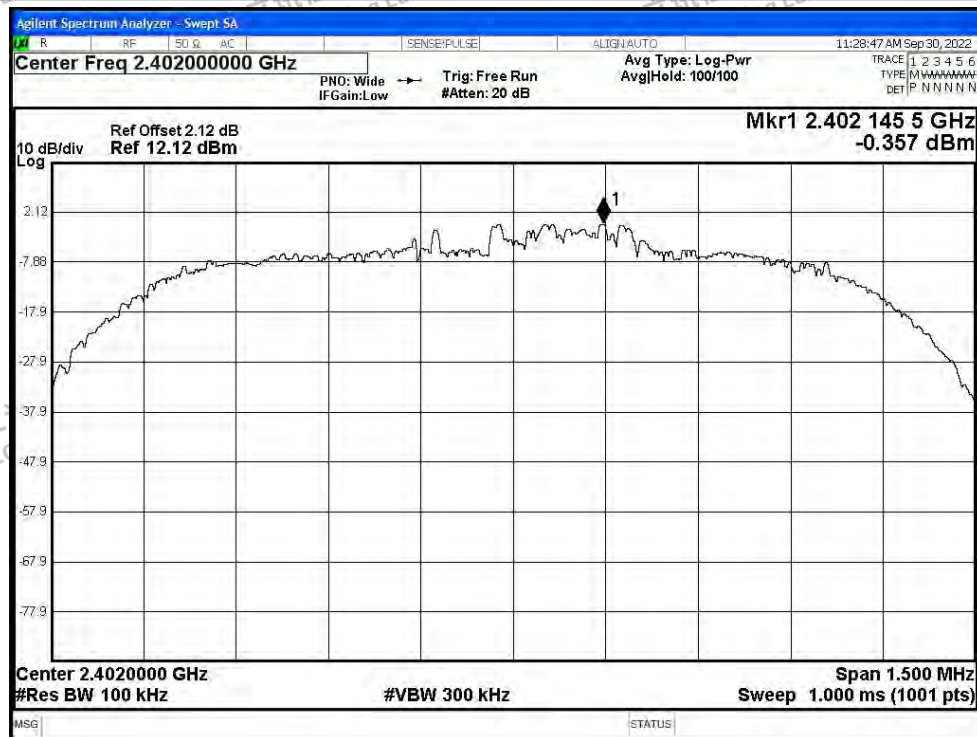


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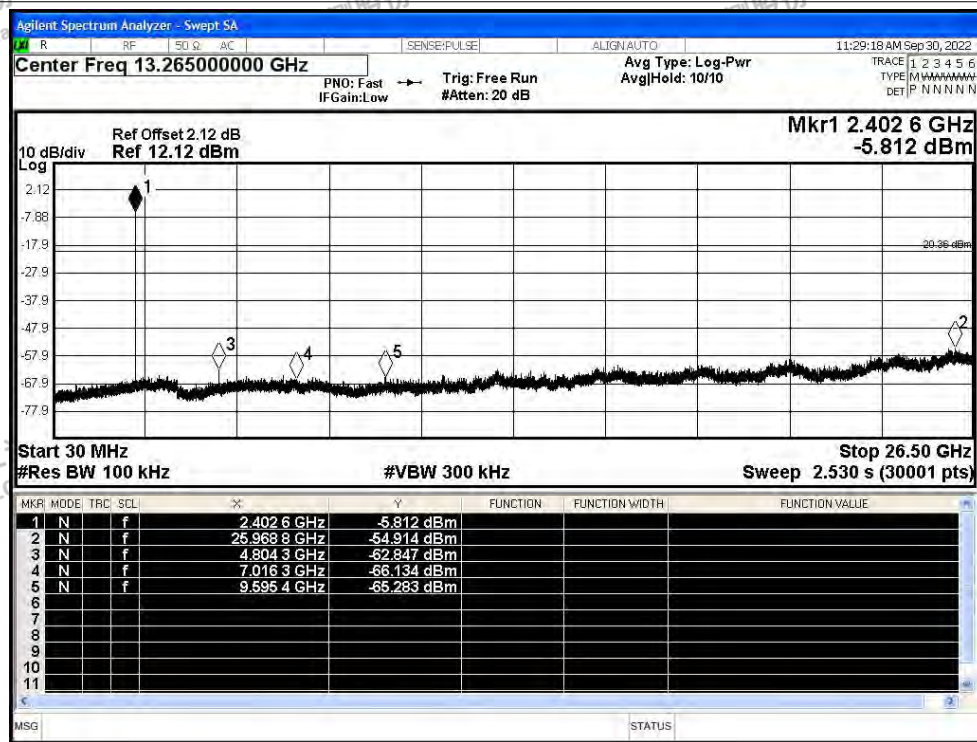




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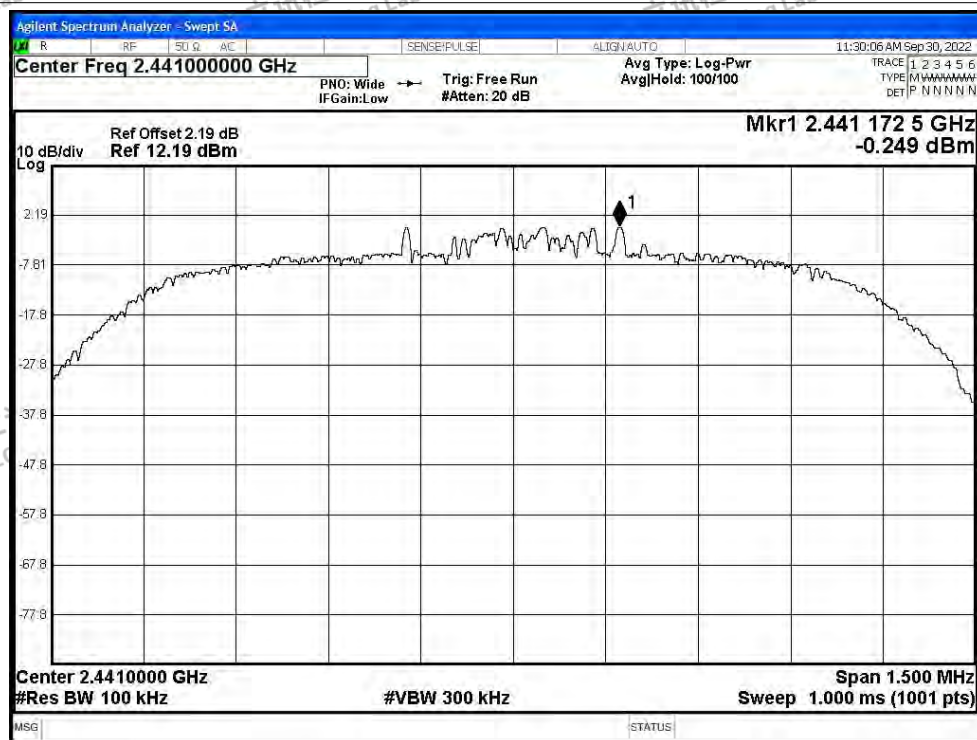


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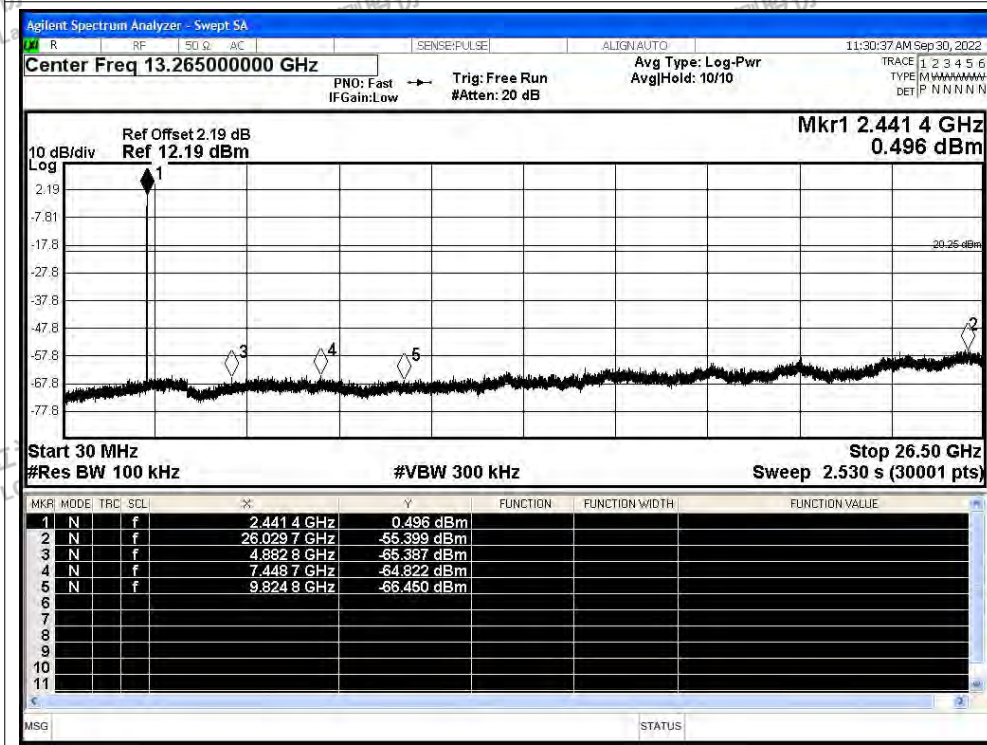




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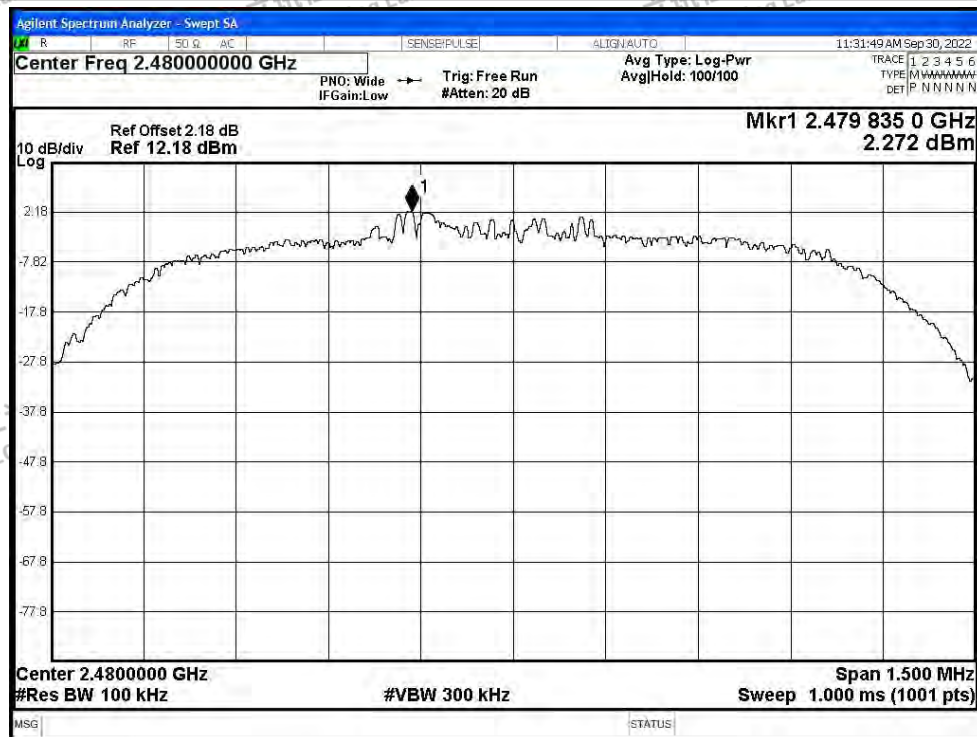


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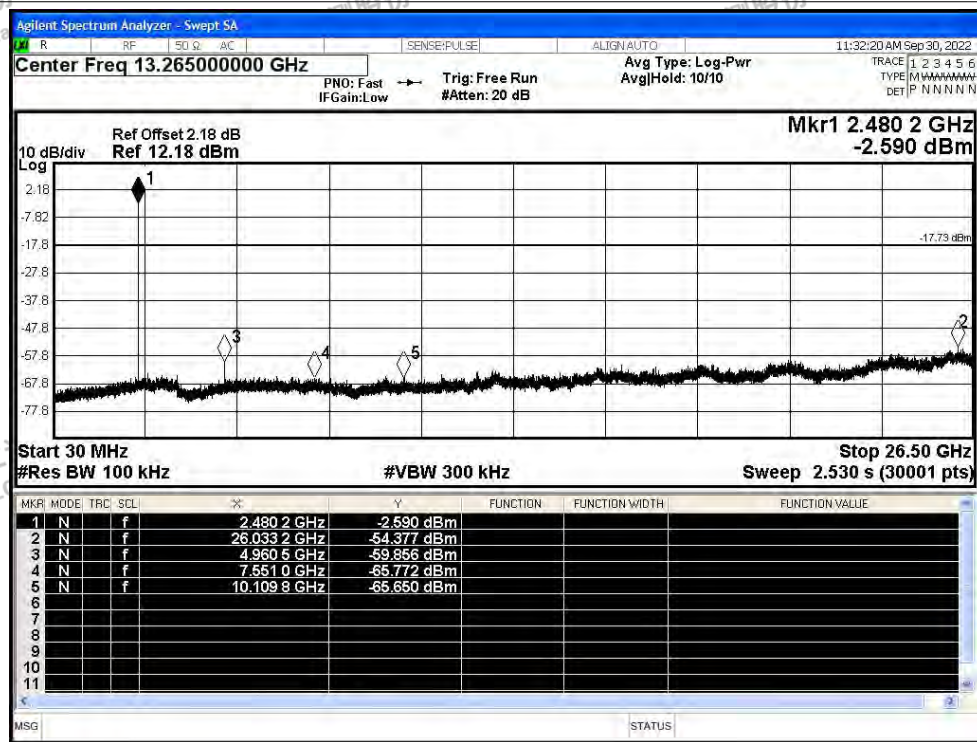




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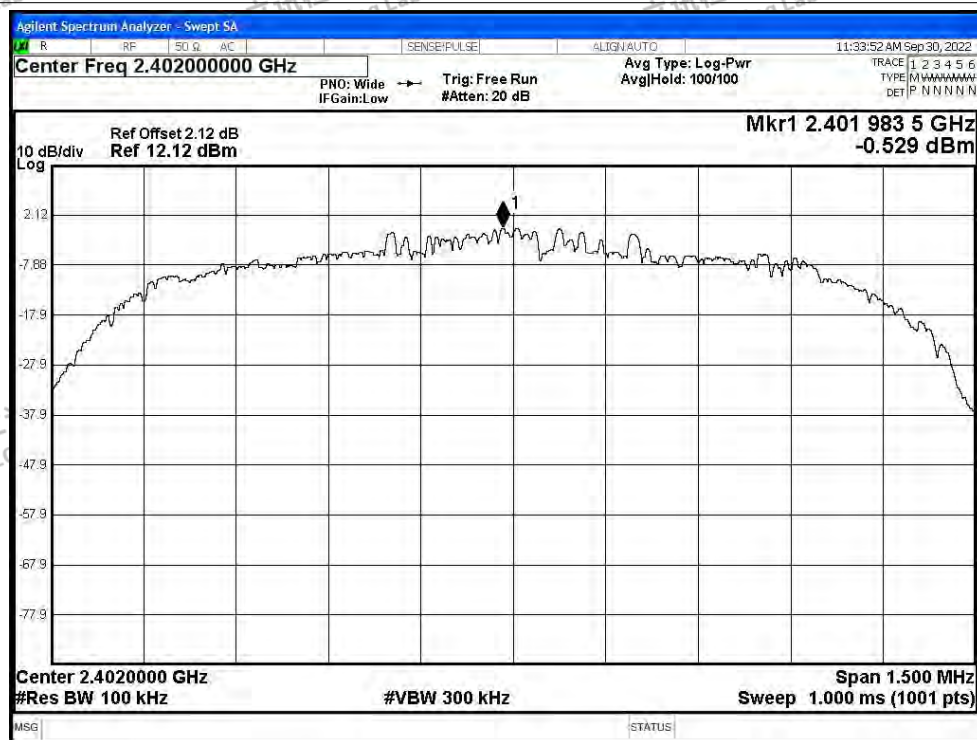


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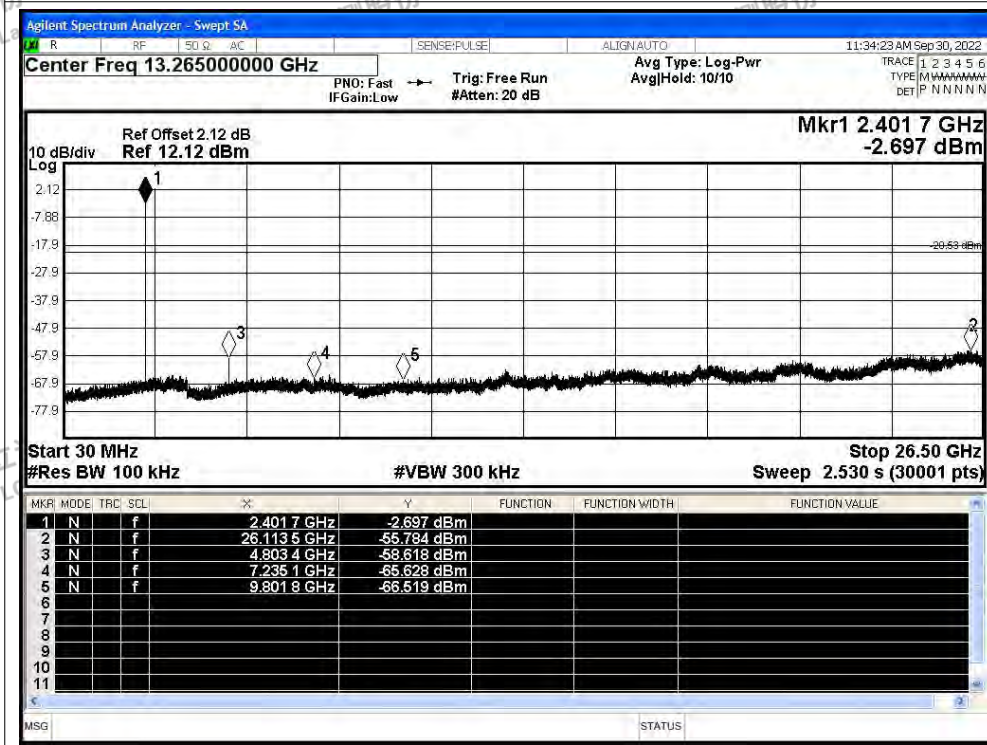




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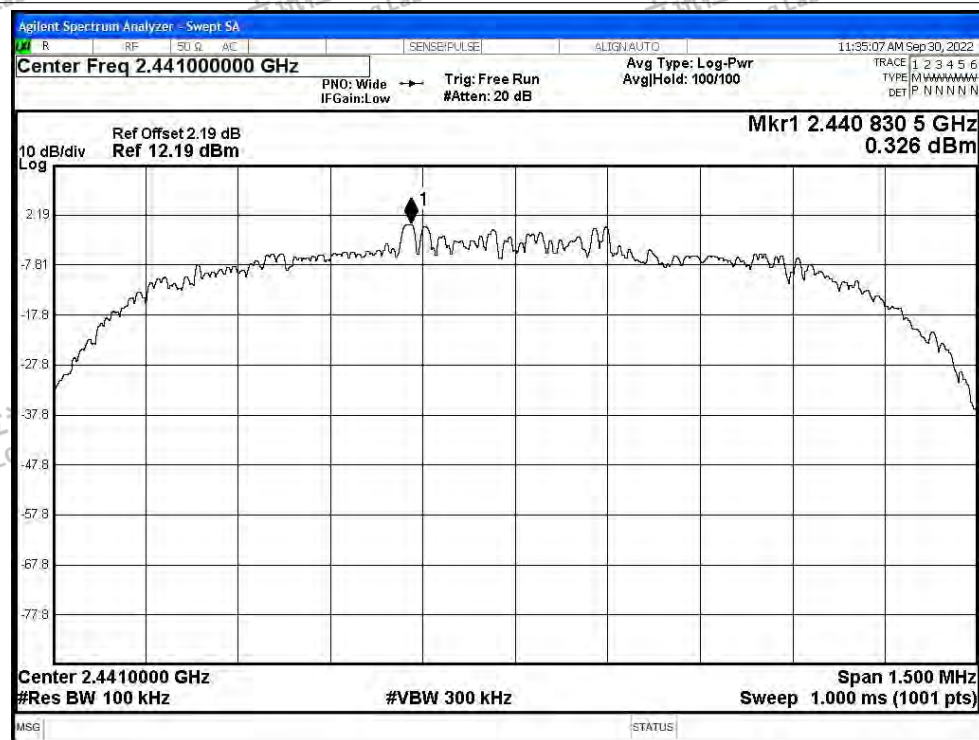


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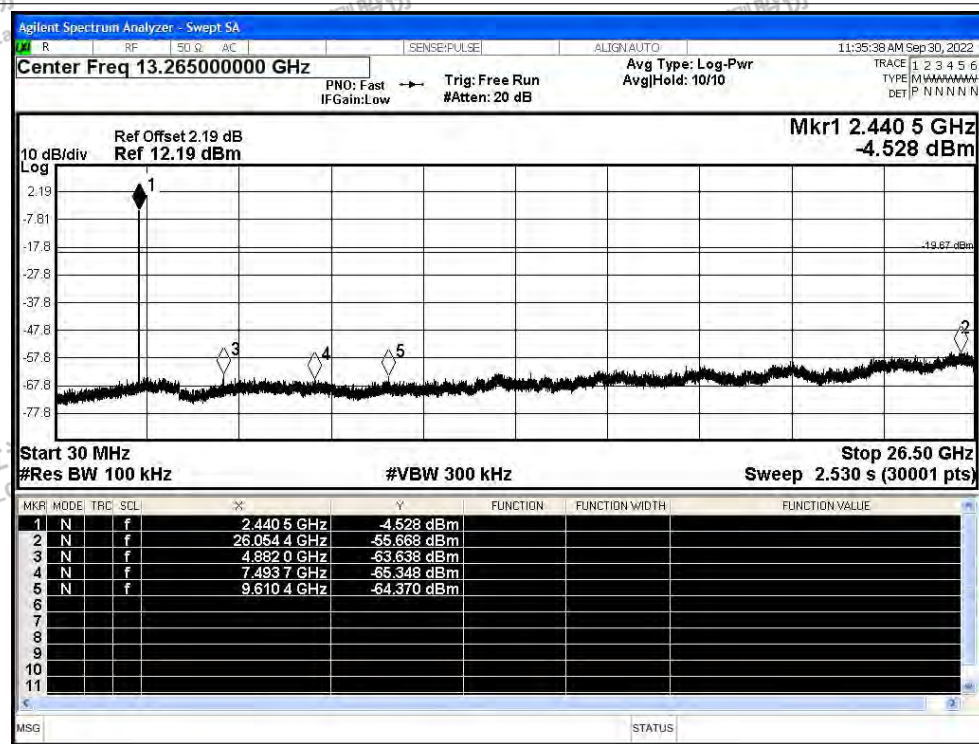




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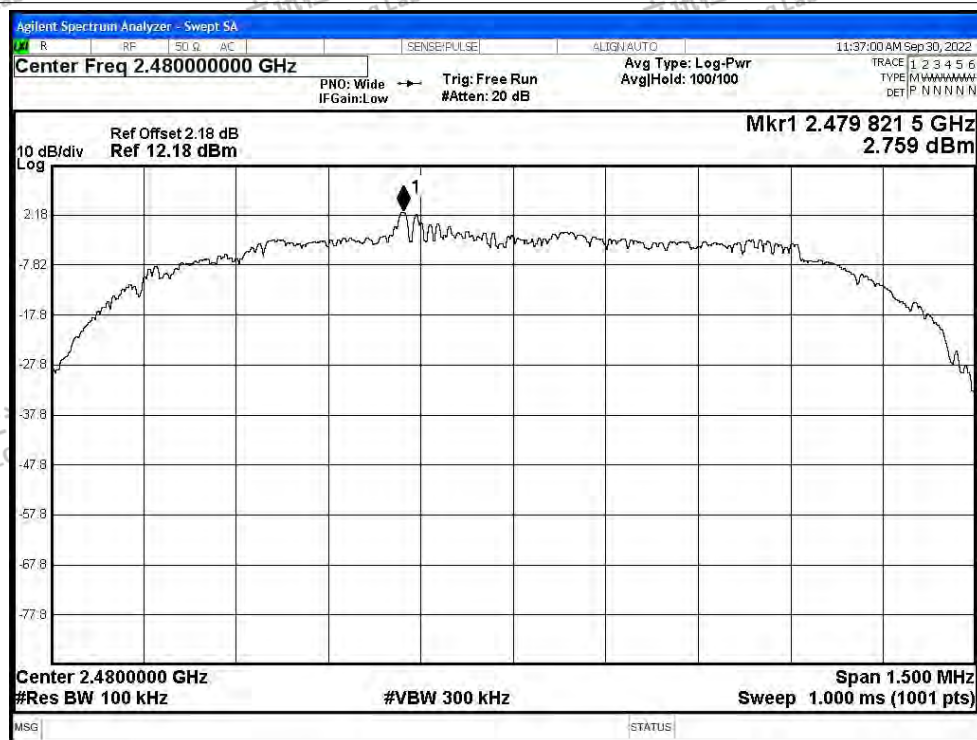


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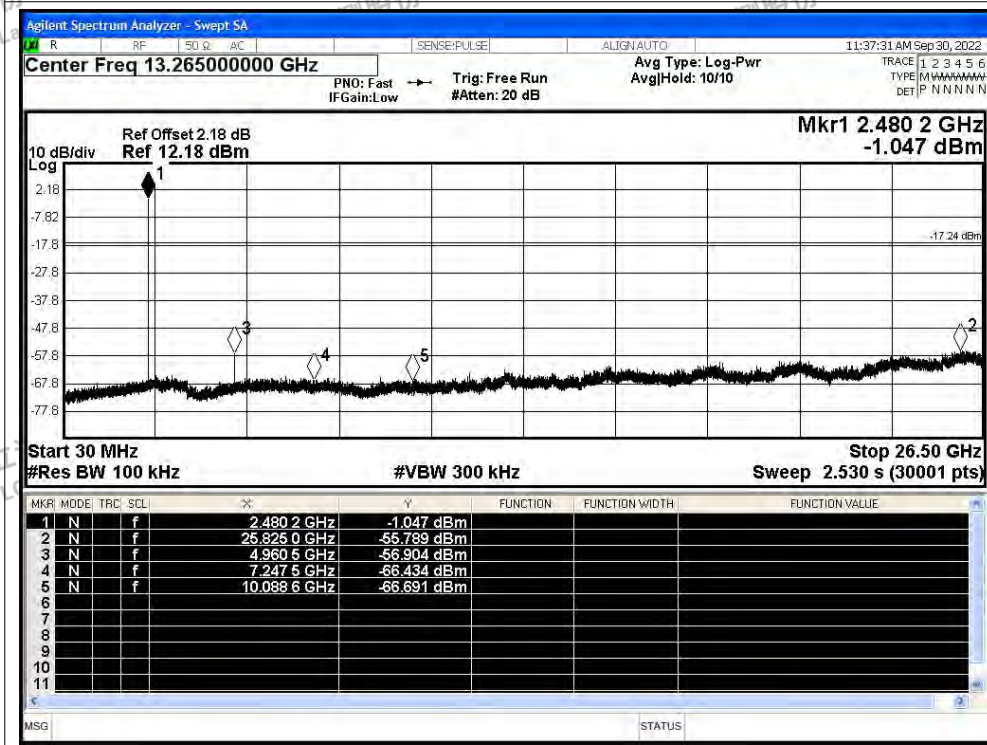




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-50.58	3.86	48.51	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.58	3.86	38.51	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2340.624	-47.4	3.86	51.69	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.224	-59.95	3.86	39.14	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.21	3.86	48.88	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.06	3.86	39.03	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.17	3.86	48.92	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.19	3.86	39.90	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2487.304	-47.33	3.86	51.76	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-59.19	3.86	39.90	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.95	3.86	49.14	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.82	3.86	39.27	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.73	3.86	47.36	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.59	3.86	38.50	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2378.352	-47.74	3.86	51.35	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2387.664	-59.99	3.86	39.10	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.23	3.86	48.86	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.18	3.86	38.91	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.15	3.86	49.94	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.23	3.86	39.86	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.752	-46.9	3.86	52.19	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-59.23	3.86	39.86	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.75	3.86	48.34	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.82	3.86	39.27	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.93	3.86	48.16	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.49	3.86	38.60	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2358.192	-47.45	3.86	51.64	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2385.84	-59.95	3.86	39.14	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.47	3.86	48.62	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.02	3.86	39.07	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.6	3.86	48.49	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.38	3.86	39.71	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2485.144	-46.89	3.86	52.20	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.04	-59.25	3.86	39.84	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.25	3.86	49.84	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.82	3.86	39.27	Average	54	Pass

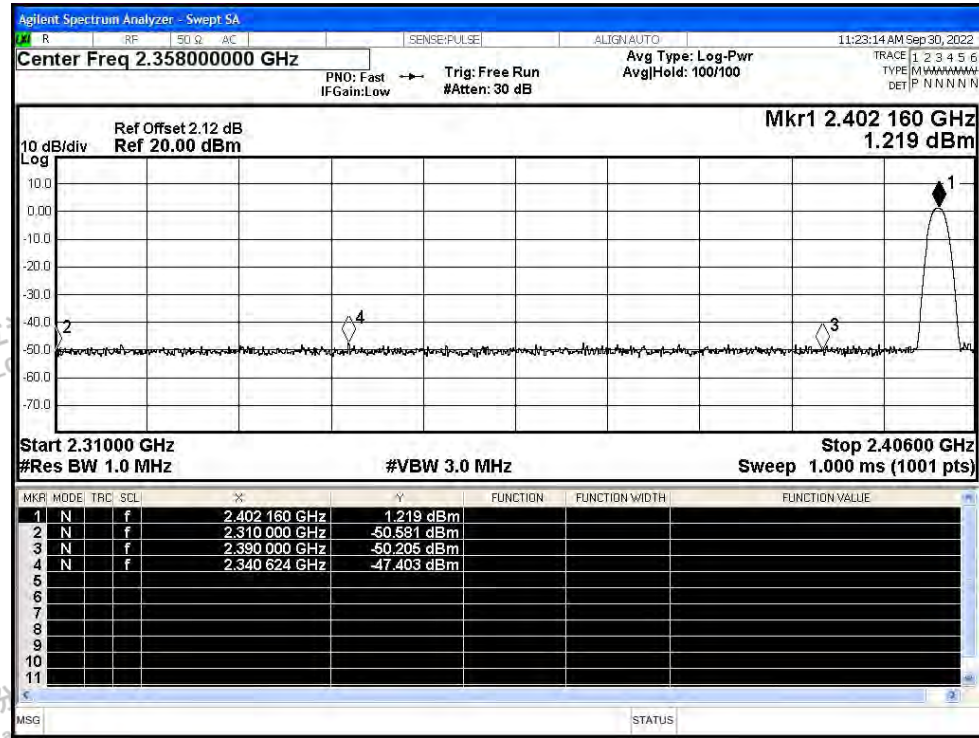


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Scan code to check authenticity

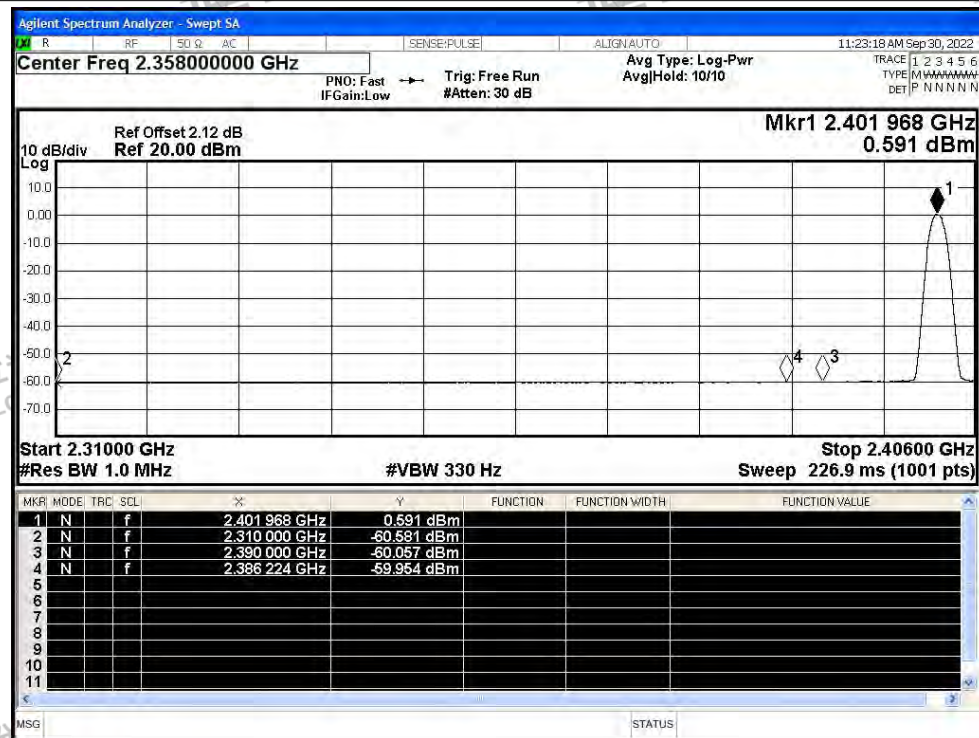


Test Graphs

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

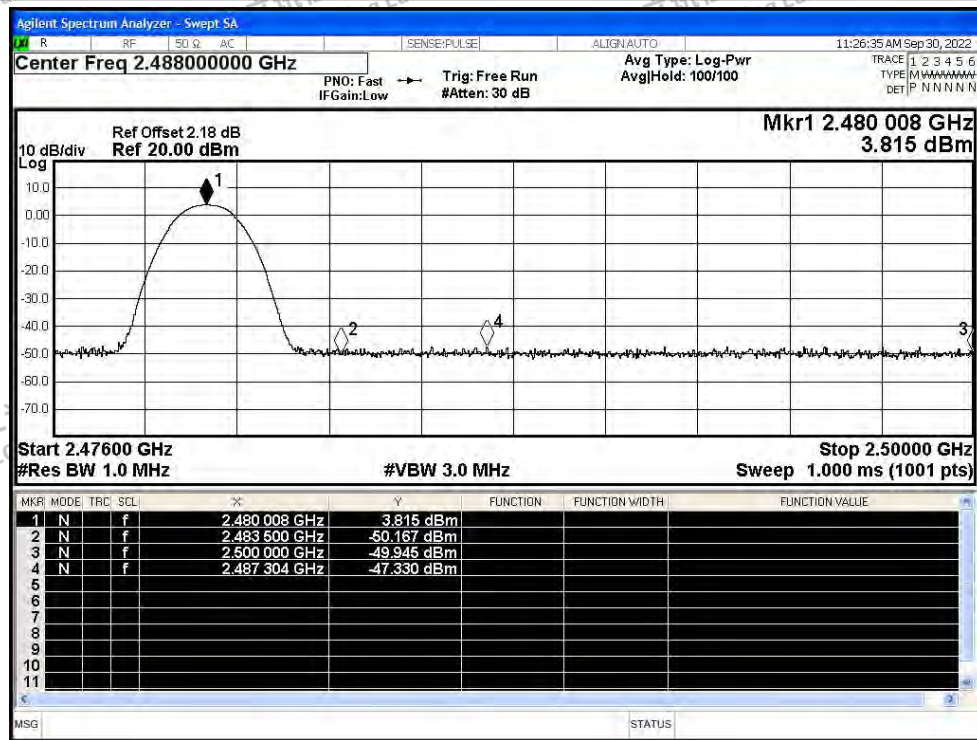


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

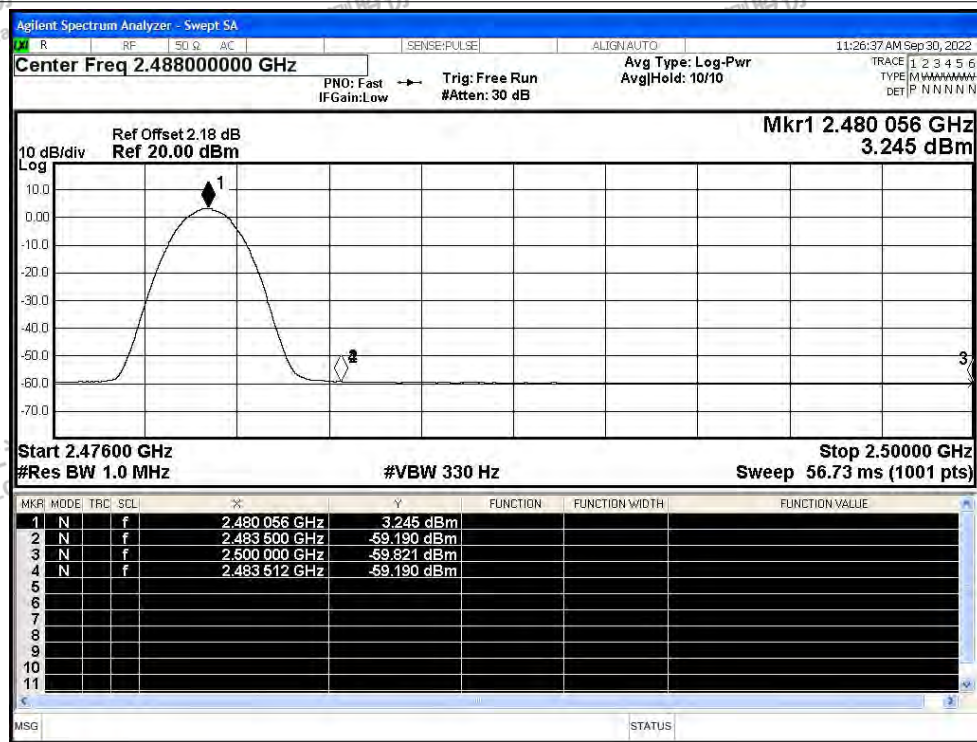




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

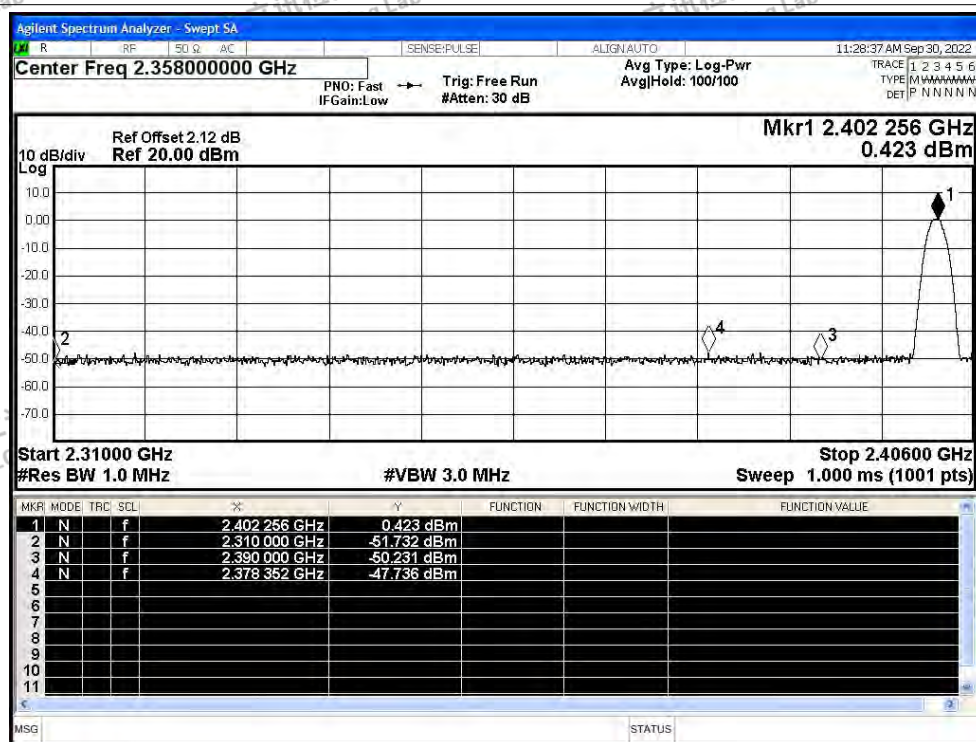


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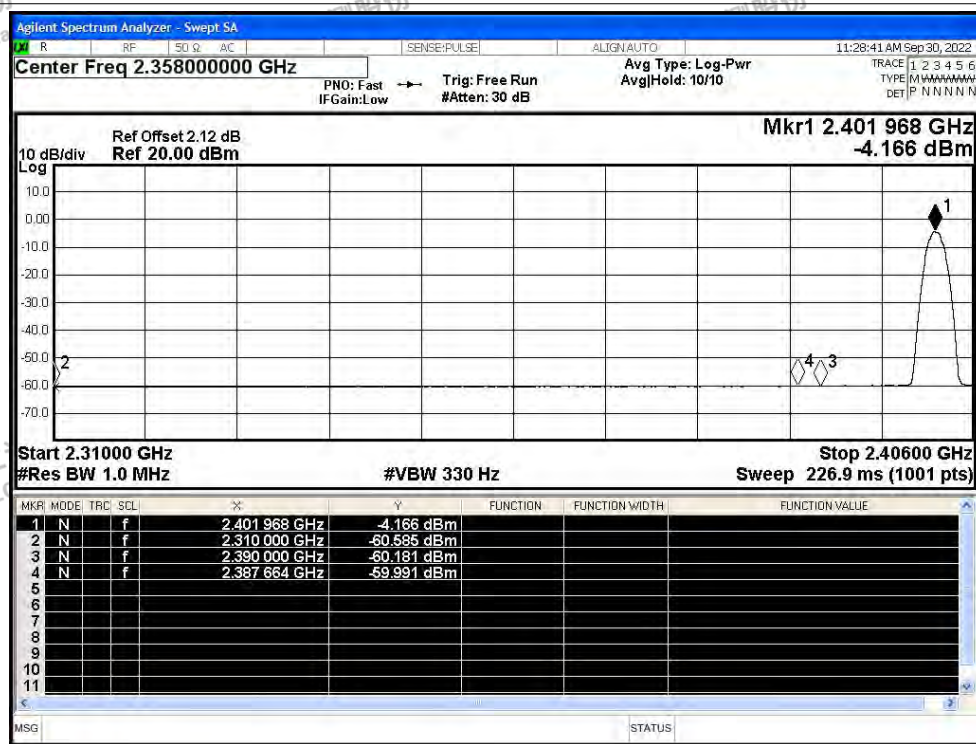




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

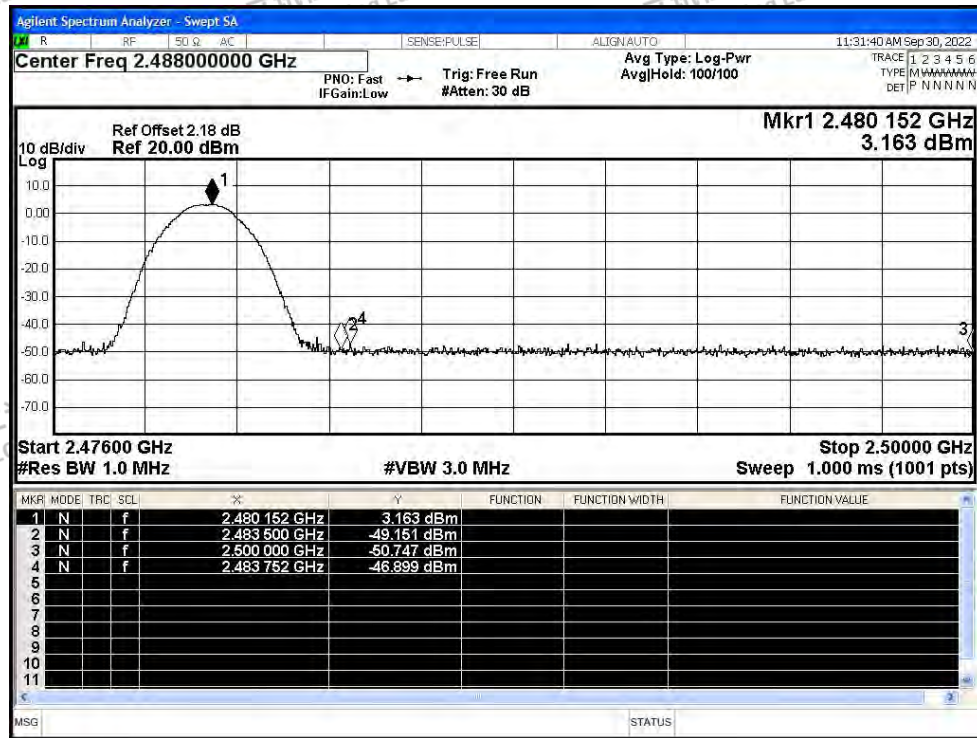


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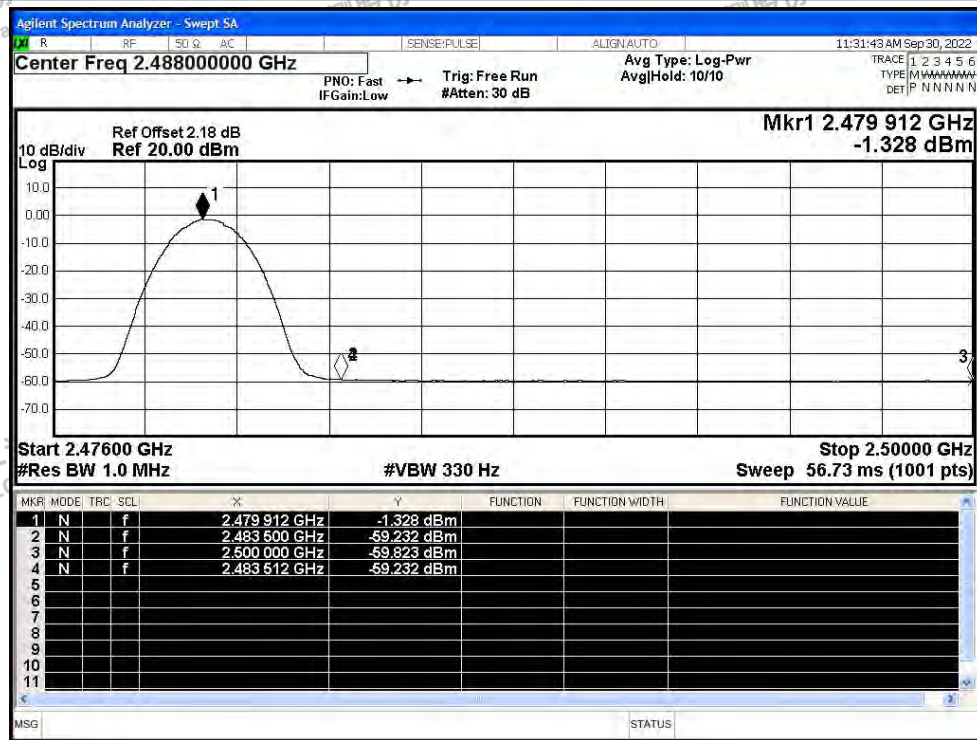




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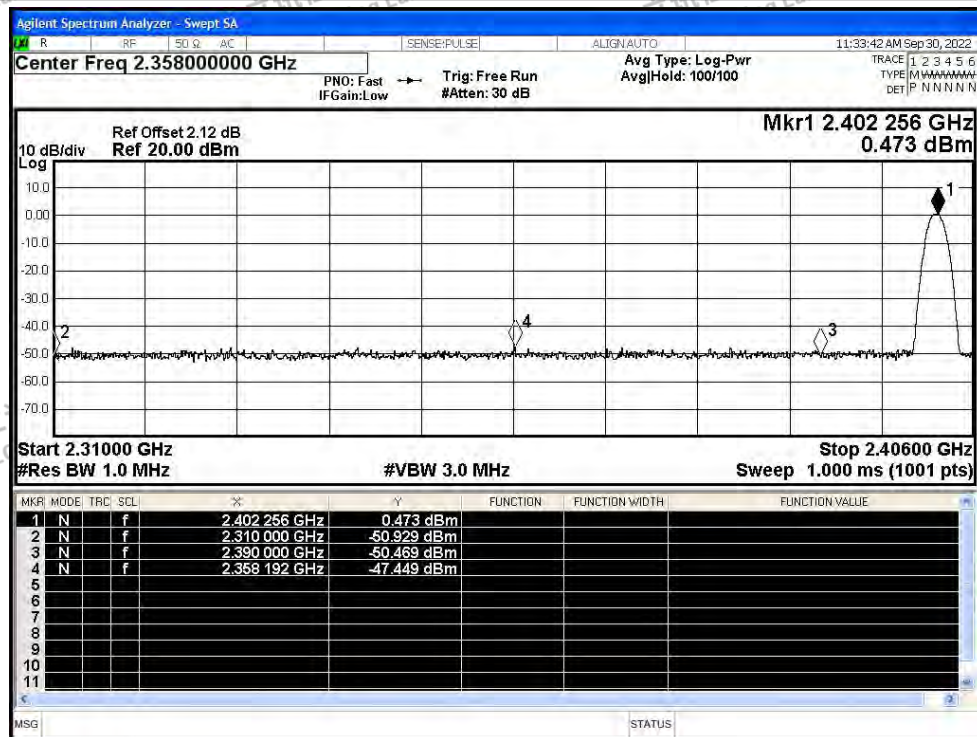


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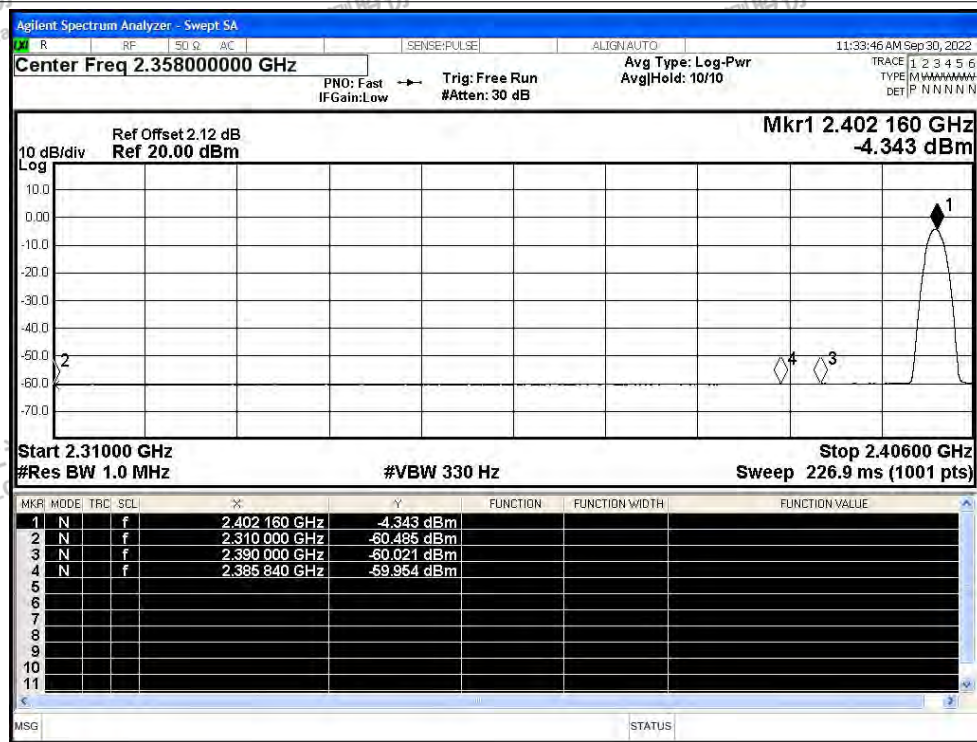




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

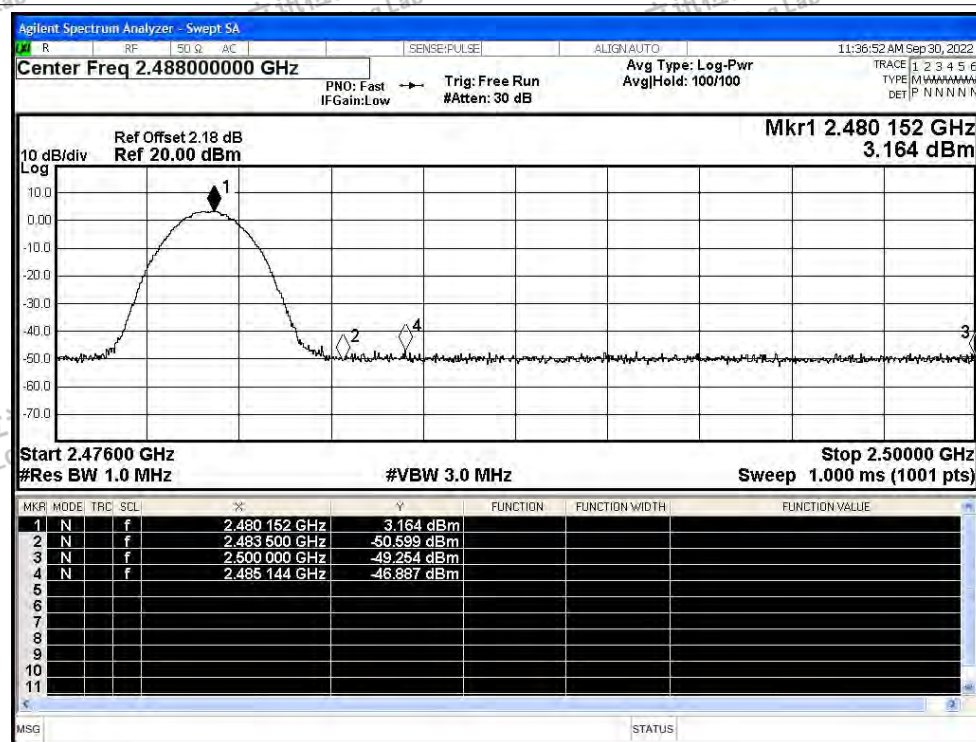


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

