



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Diagnostic Tool

Test Model: DP55

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
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	0.942	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.953	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.925	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.291	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.284	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.344	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.303	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.297	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.286	N/A	Pass



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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

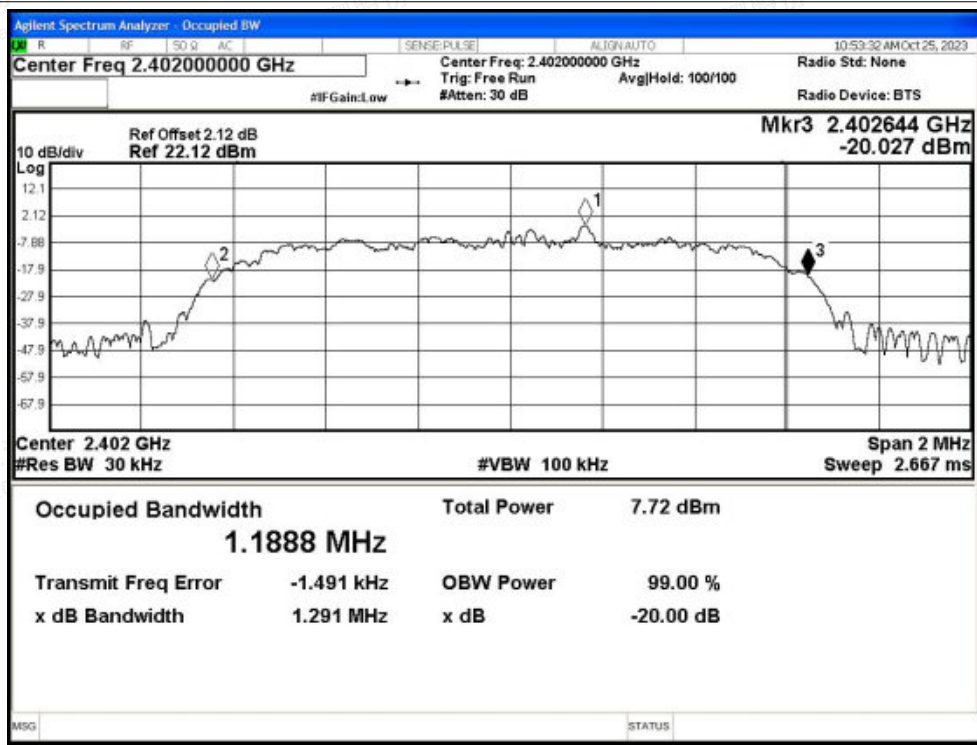




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

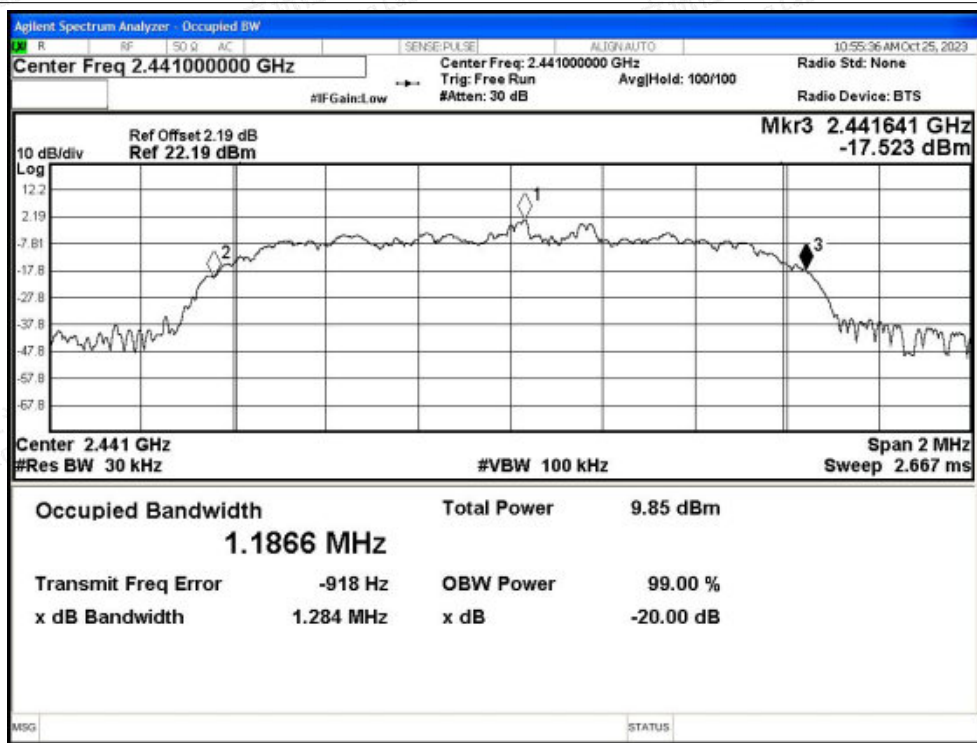


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

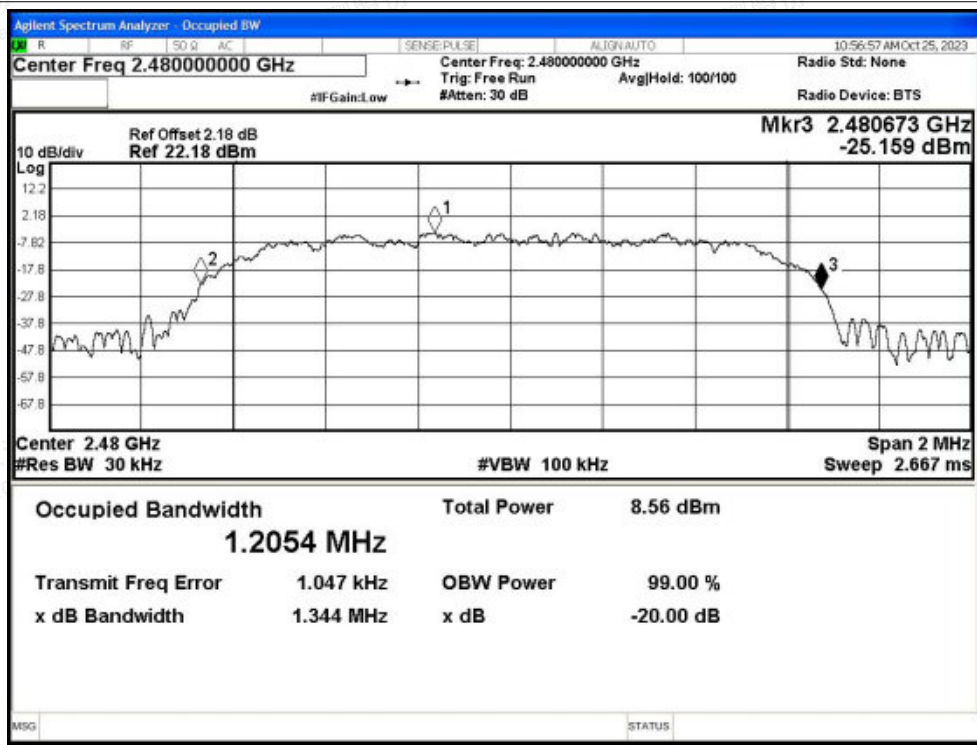




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

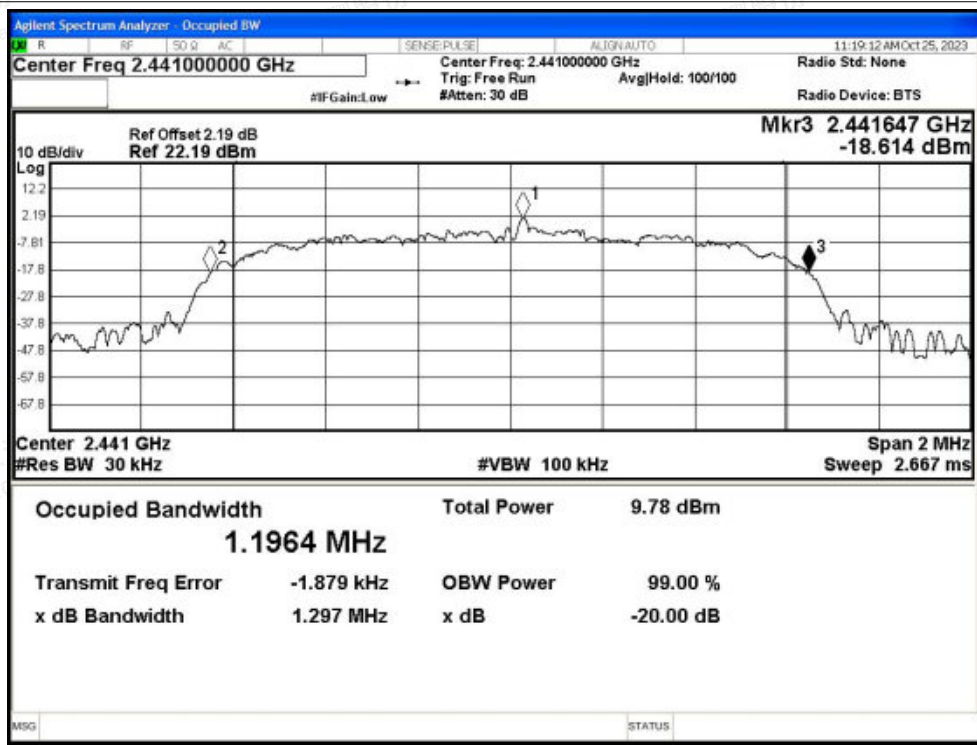




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

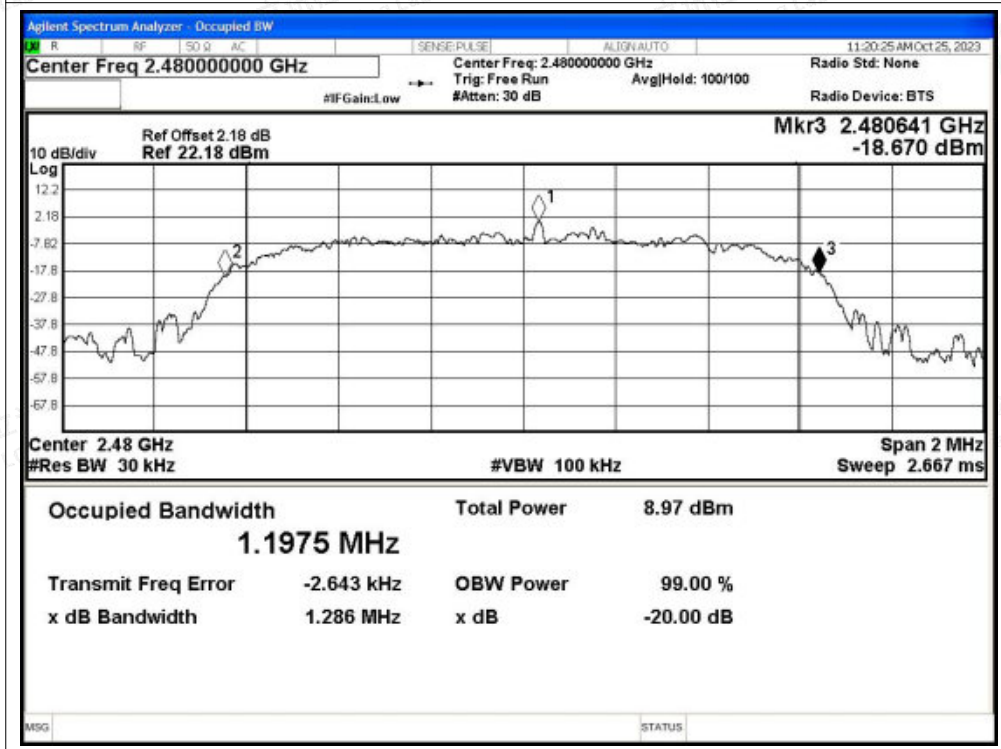


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.59	21	Pass
NVNT	1-DH5	2441	Ant1	0.17	21	Pass
NVNT	1-DH5	2480	Ant1	-0.09	21	Pass
NVNT	2-DH5	2402	Ant1	0.19	21	Pass
NVNT	2-DH5	2441	Ant1	2.14	21	Pass
NVNT	2-DH5	2480	Ant1	1.87	21	Pass
NVNT	3-DH5	2402	Ant1	0.55	21	Pass
NVNT	3-DH5	2441	Ant1	2.54	21	Pass
NVNT	3-DH5	2480	Ant1	2.26	21	Pass

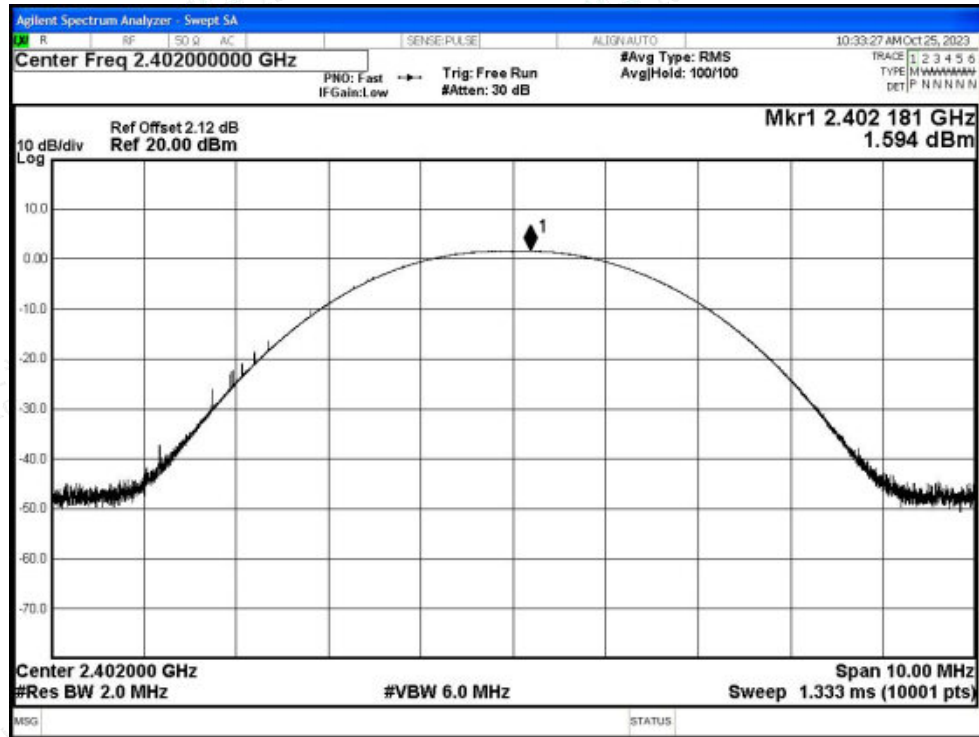


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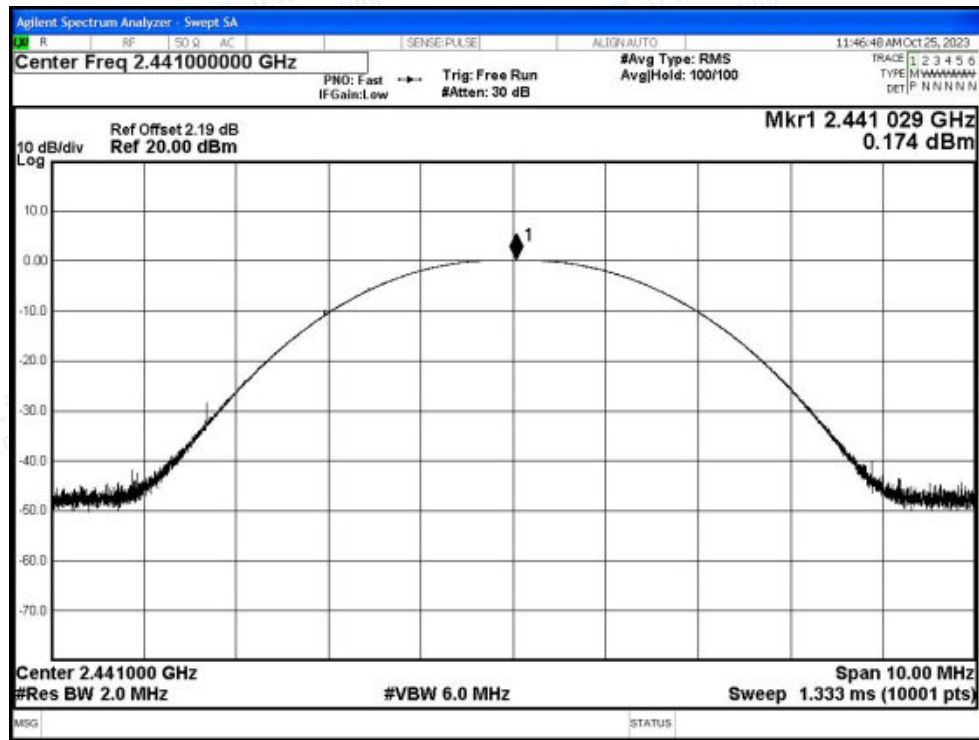


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

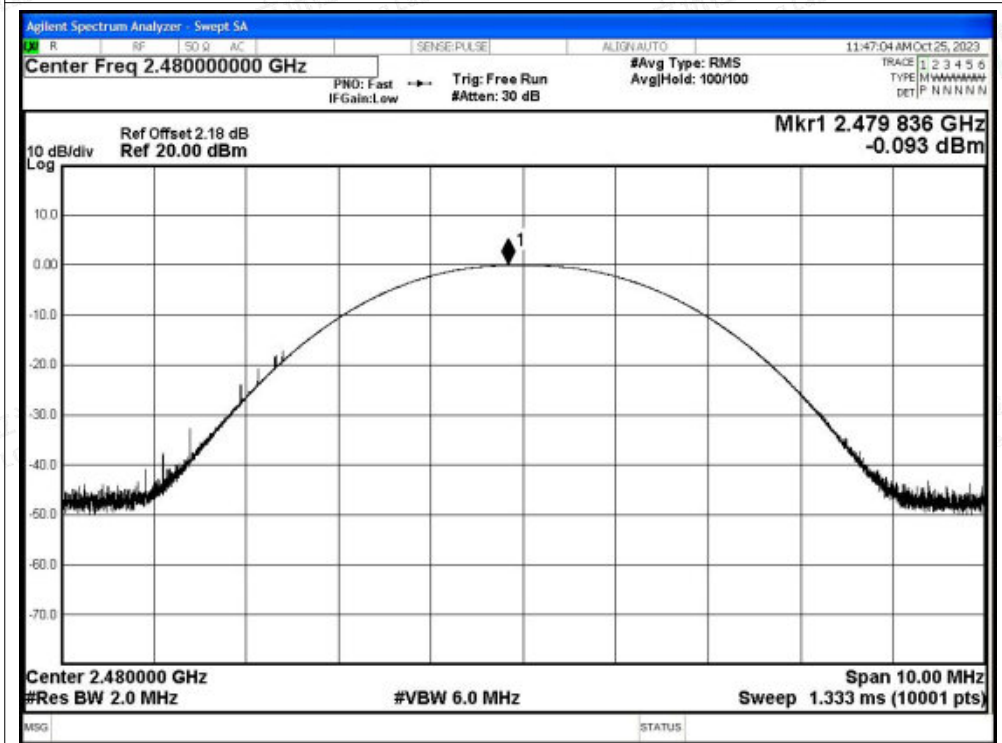


Power NVNT 1-DH5 2441MHz Ant1

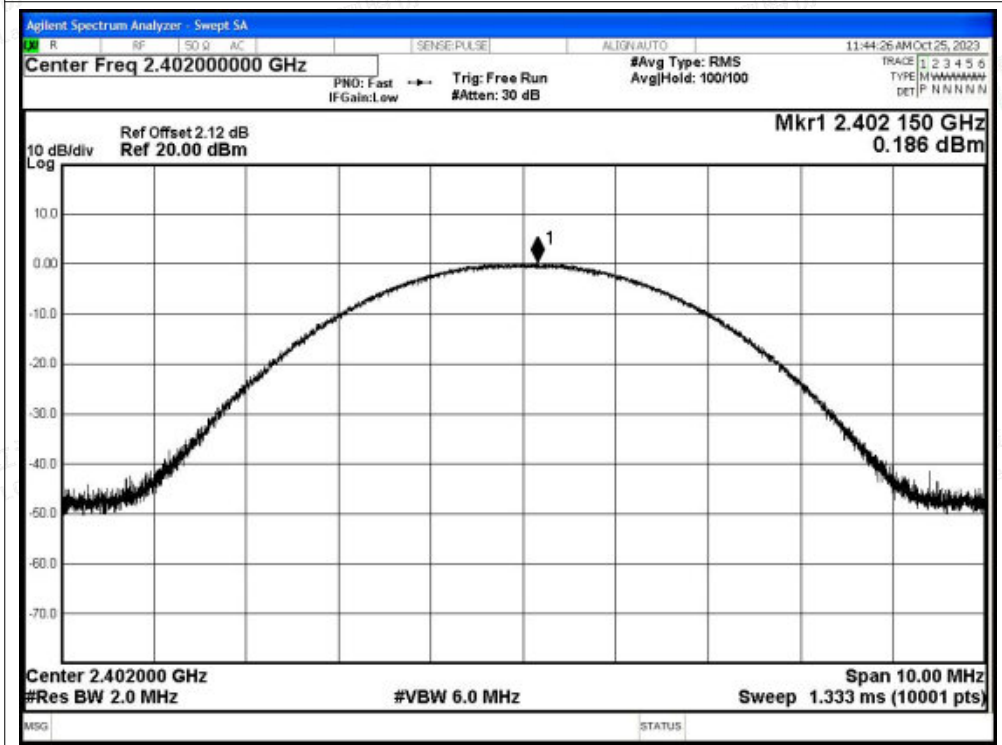




Power NVNT 1-DH5 2480MHz Ant1

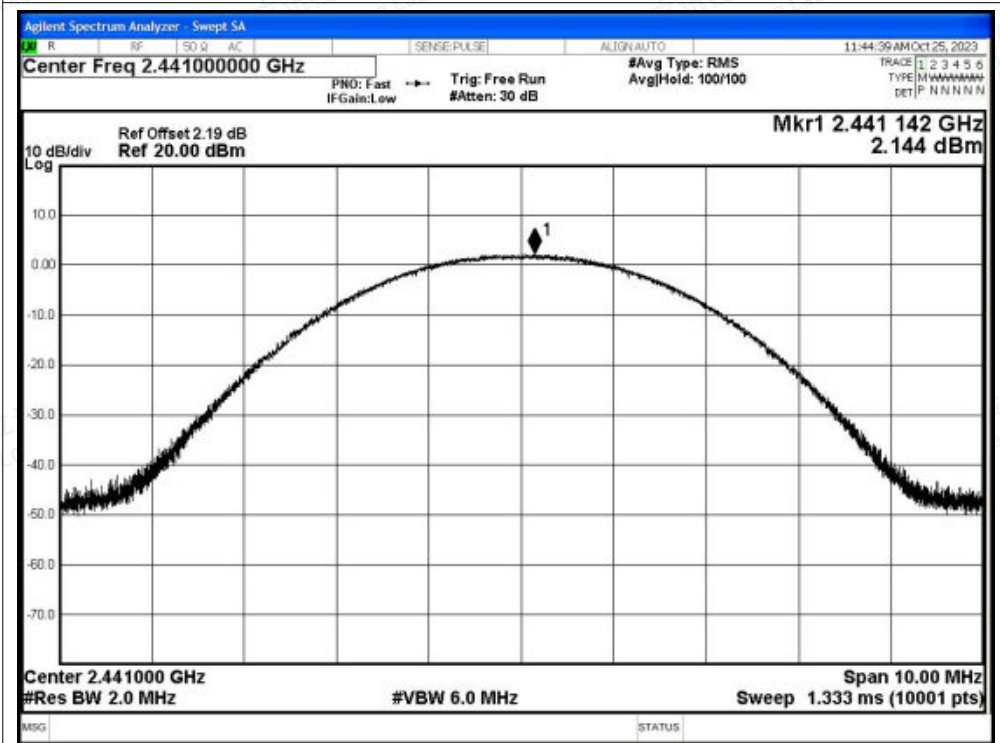


Power NVNT 2-DH5 2402MHz Ant1

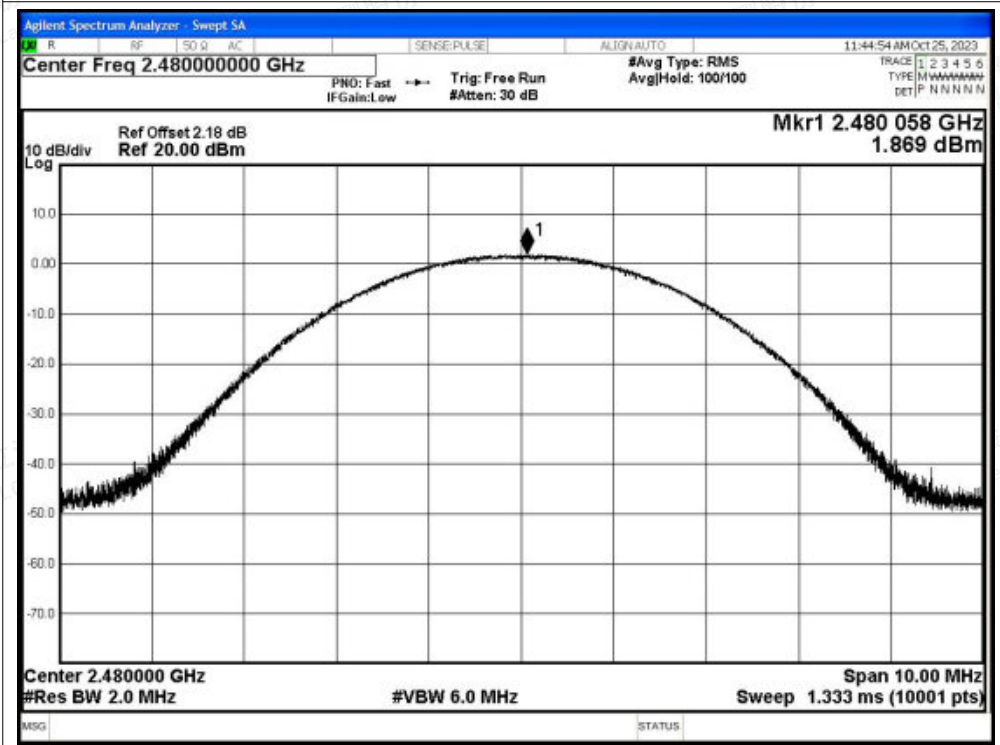




Power NVNT 2-DH5 2441MHz Ant1

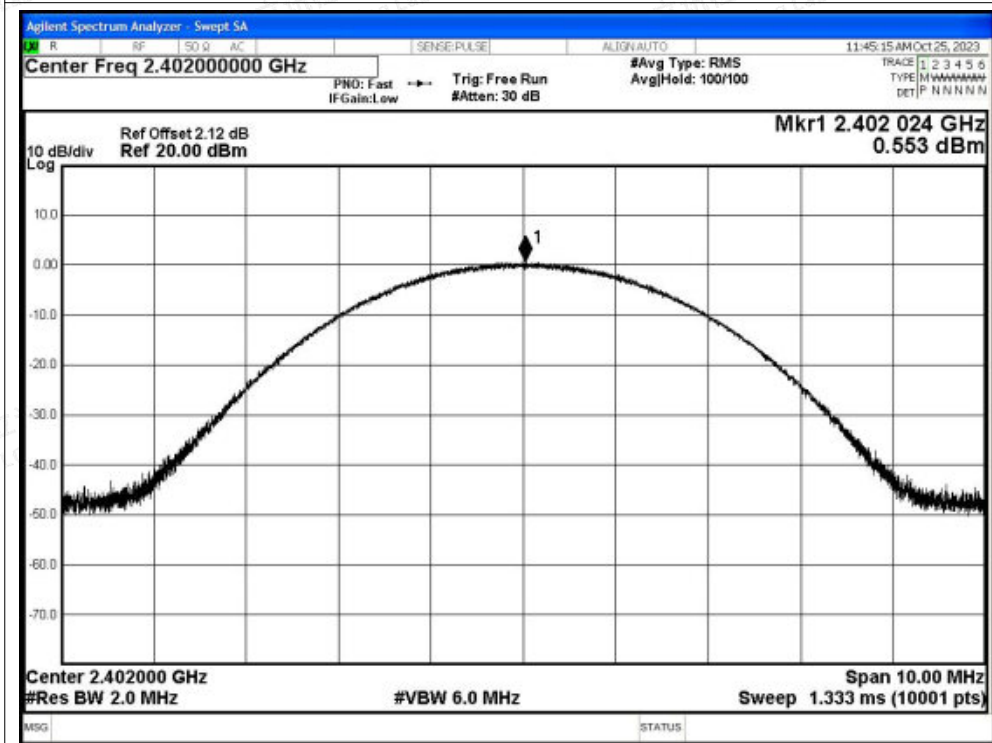


Power NVNT 2-DH5 2480MHz Ant1

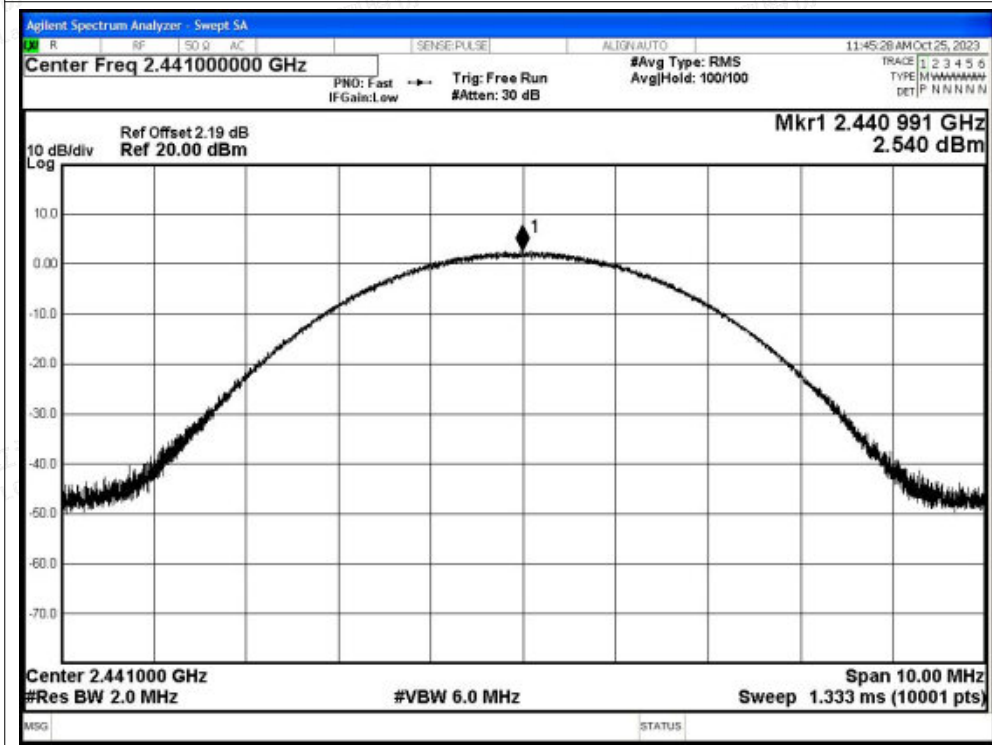




Power NVNT 3-DH5 2402MHz Ant1



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	2402.994	1.026	0.635	Pass
NVNT	2-DH5	Ant1	2402.144	2403.018	0.874	0.896	Pass
NVNT	3-DH5	Ant1	2402.136	2403.164	1.028	0.869	Pass

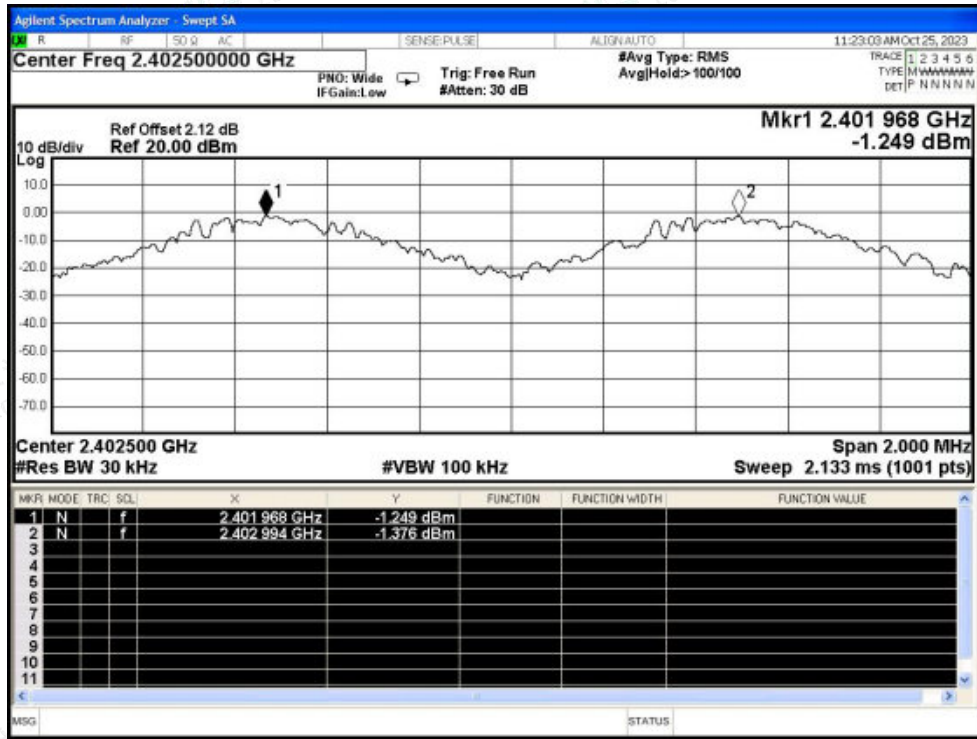


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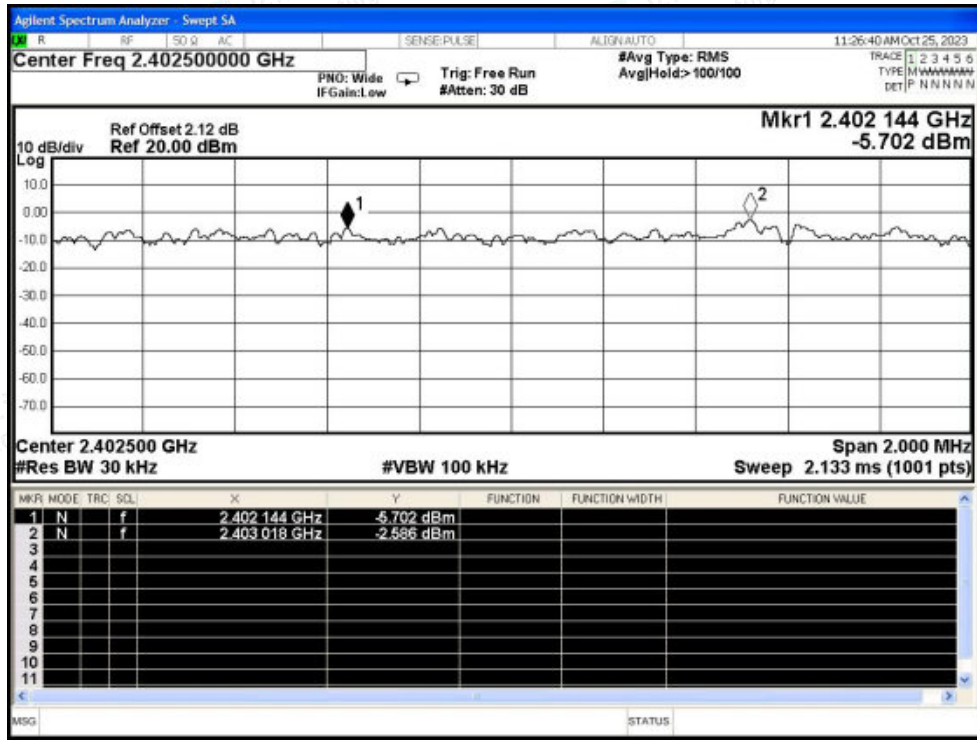


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

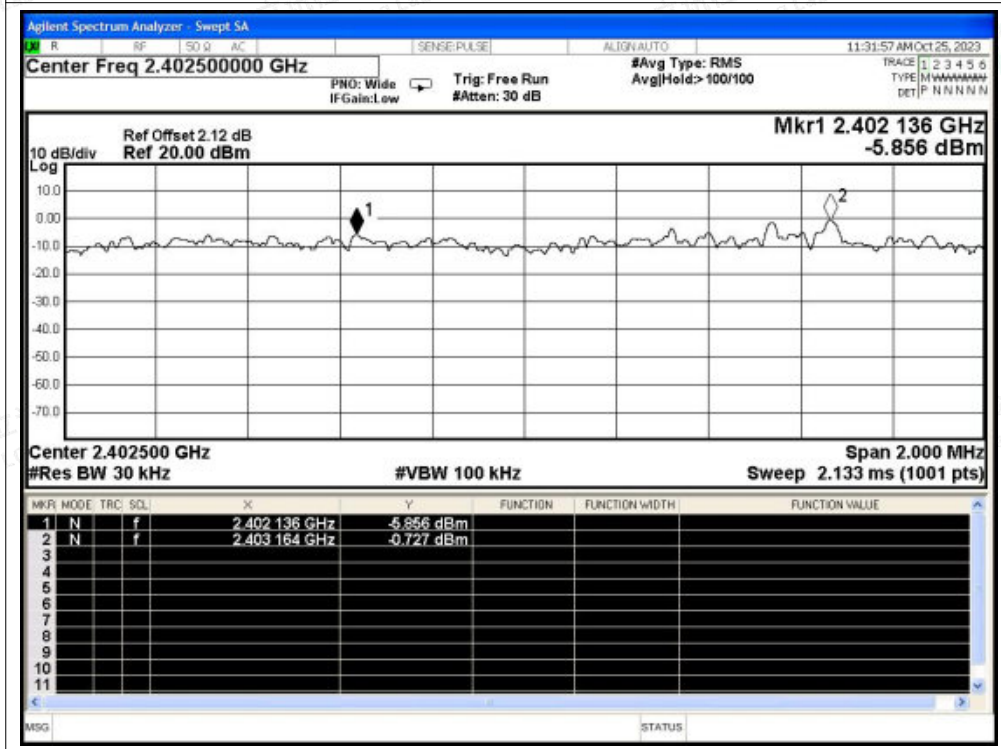


CFS NVNT 2-DH5 2402MHz Ant1





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	2.896	301.184	104	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.884	314.356	109	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.883	259.47	90	31600	400	Pass

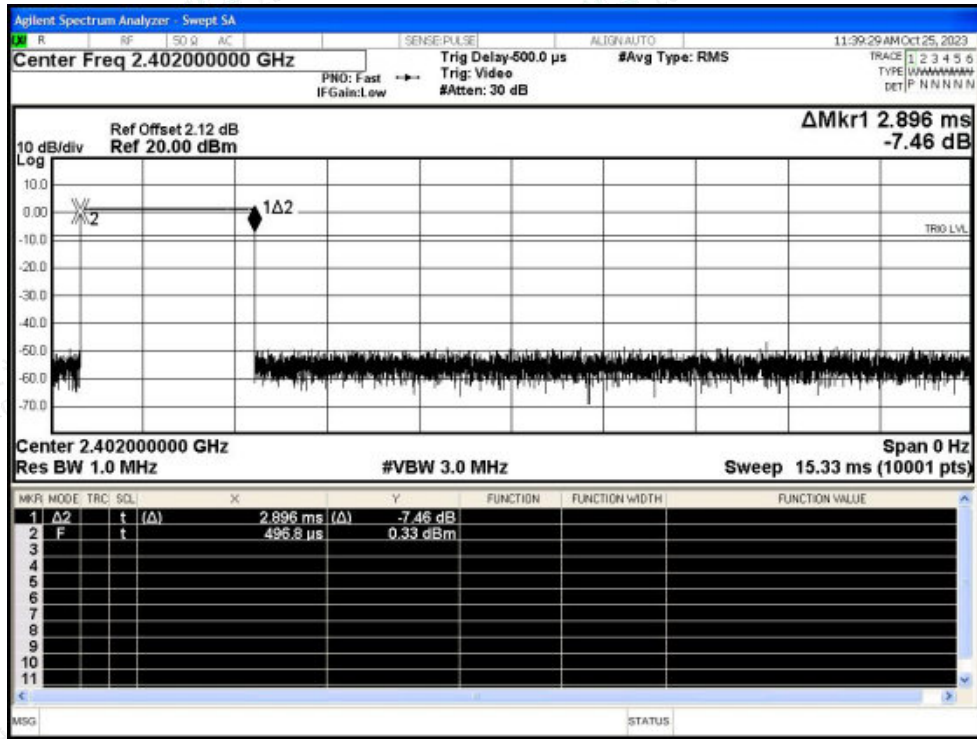


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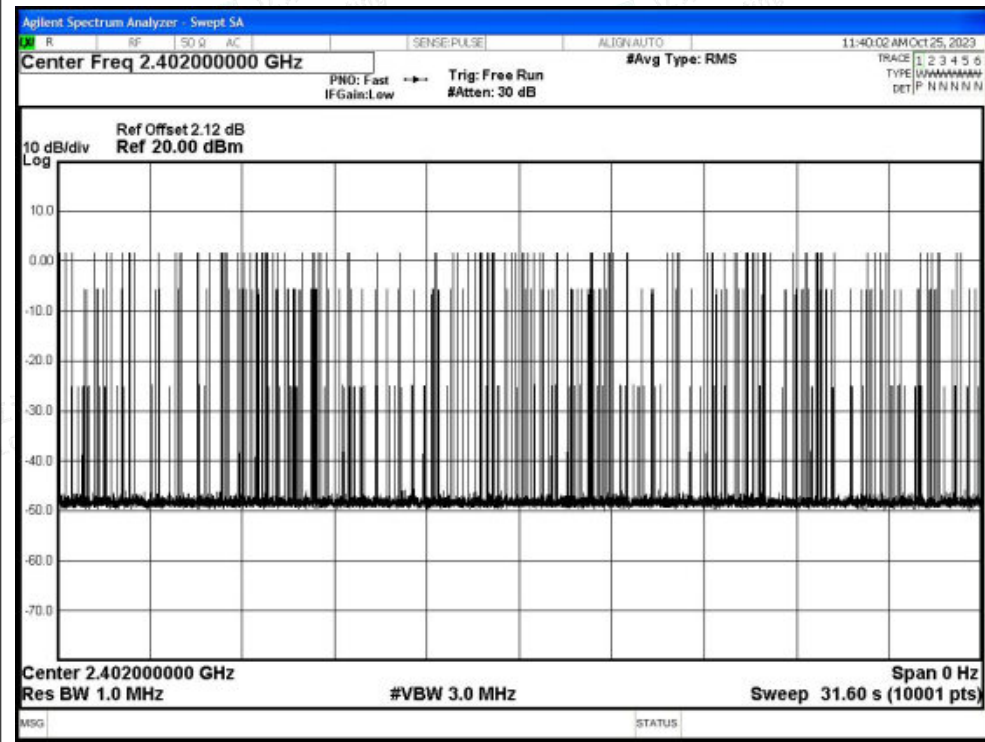


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

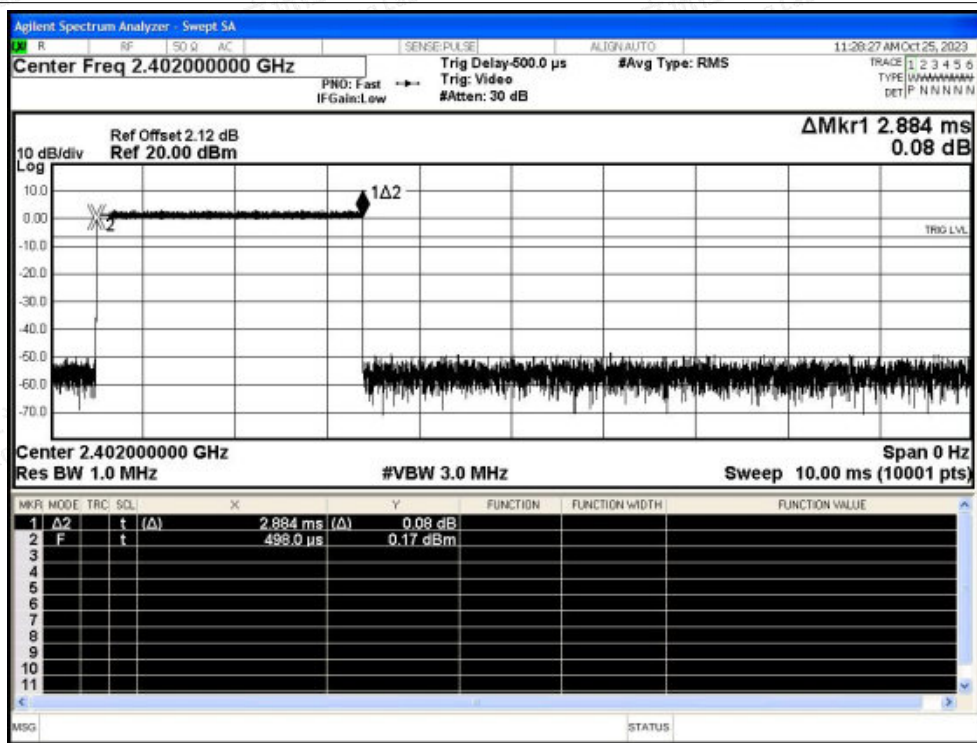


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

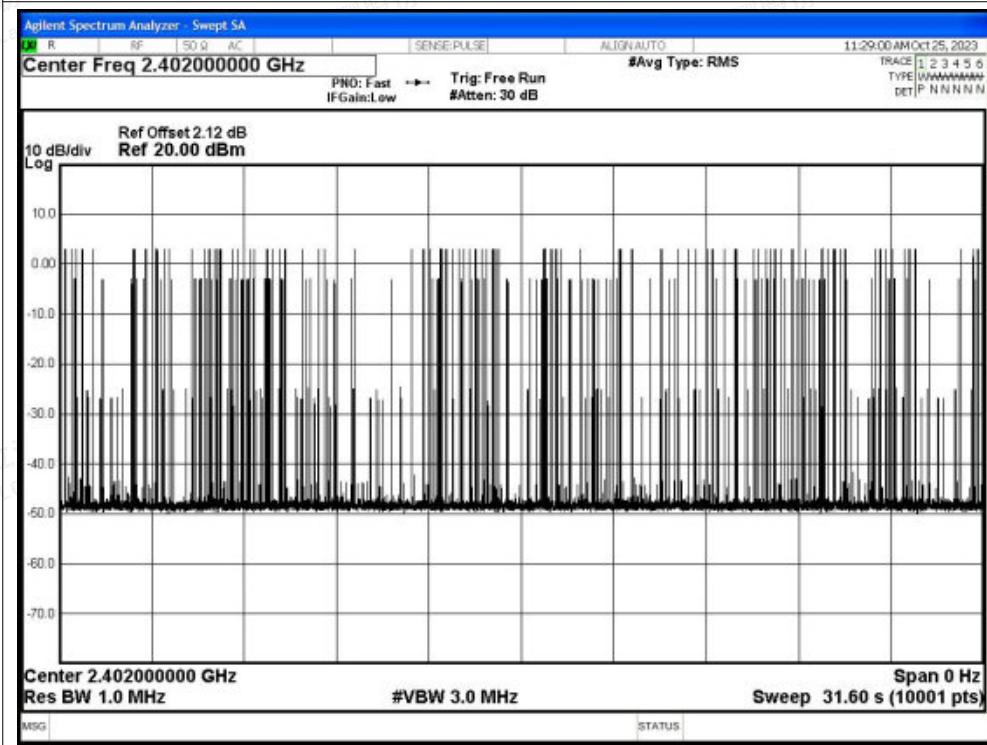




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

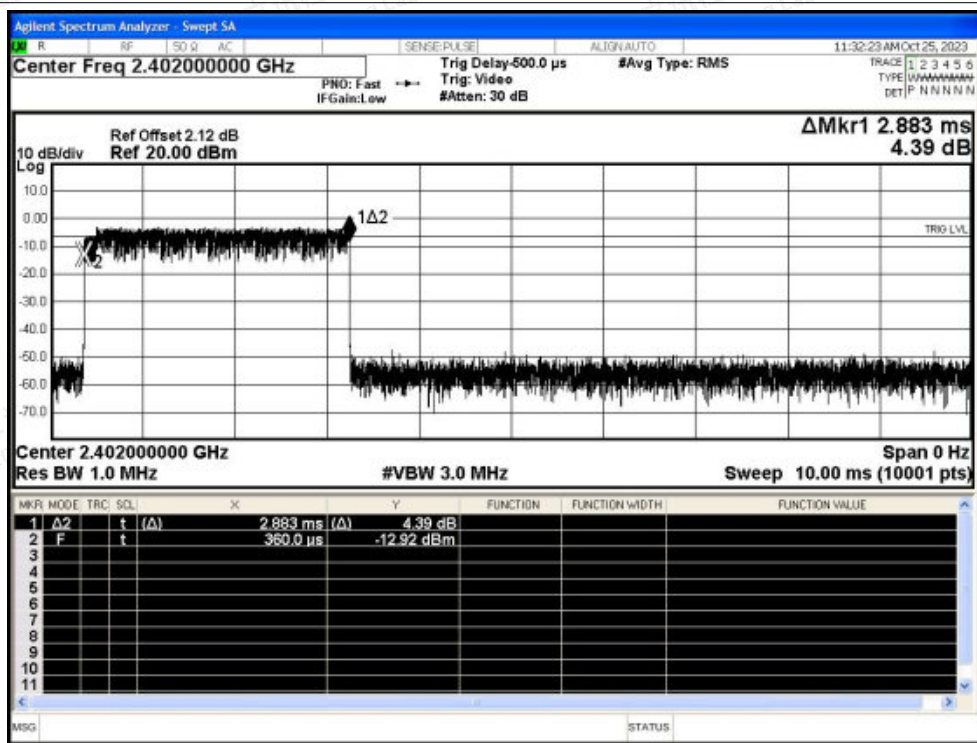


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

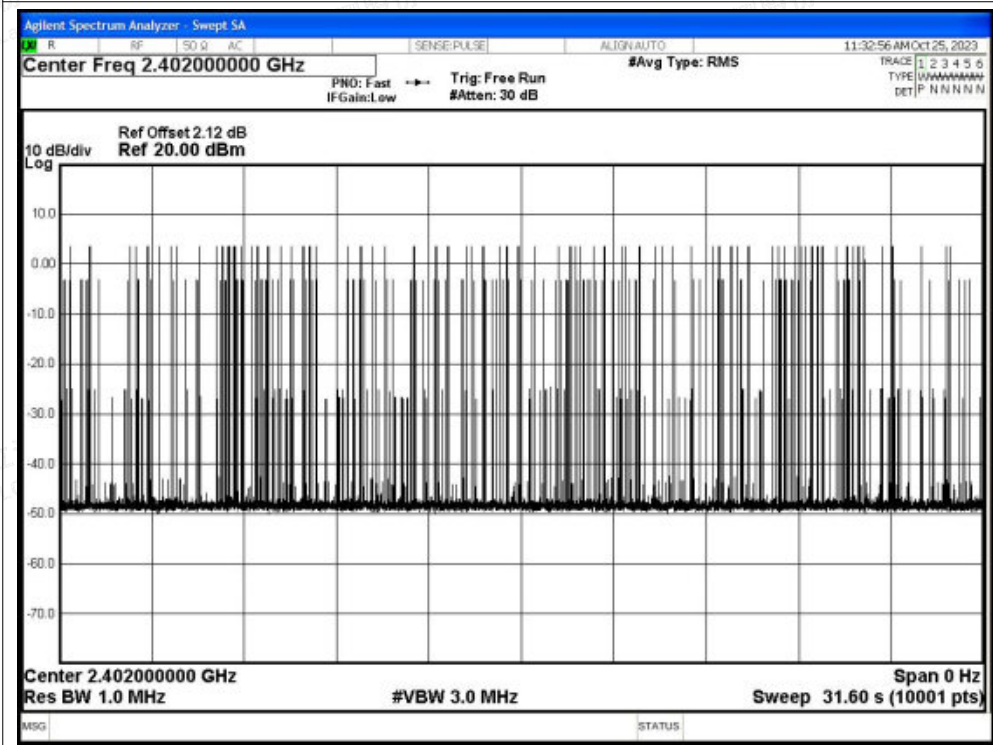




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

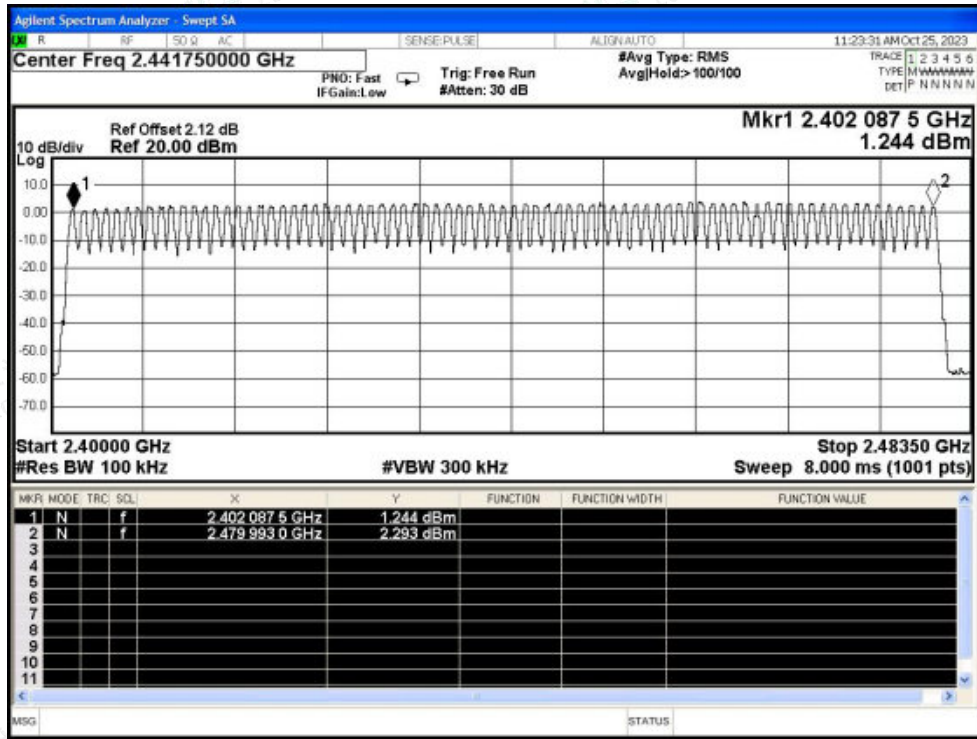
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



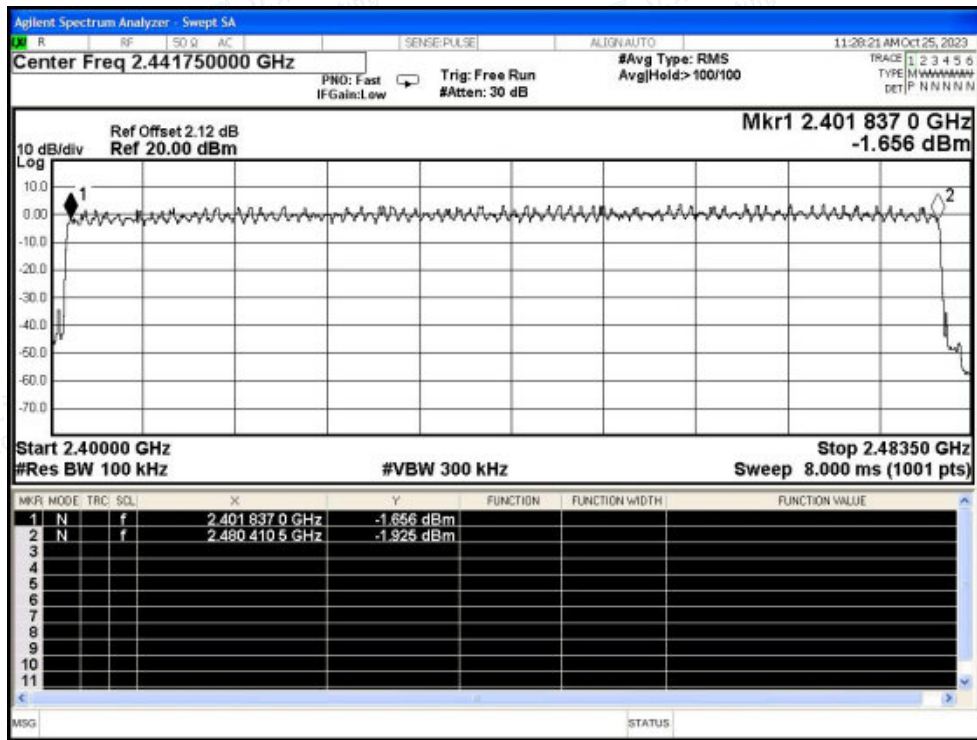


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

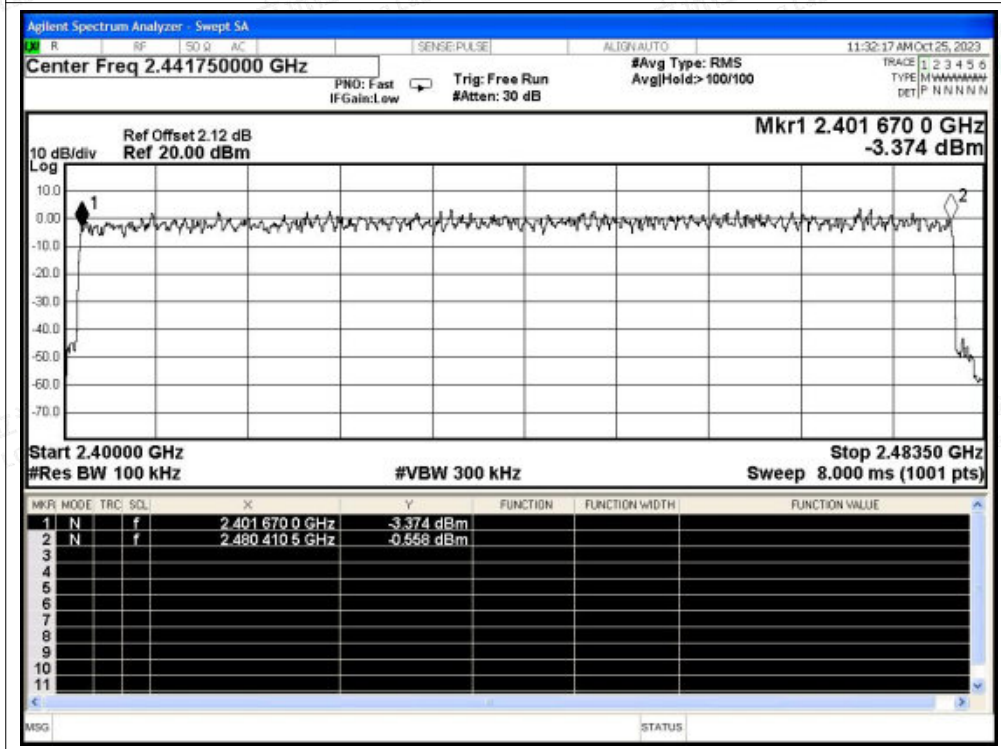


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.57	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-59.4	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.23	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-58.9	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.19	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.46	-20	Pass

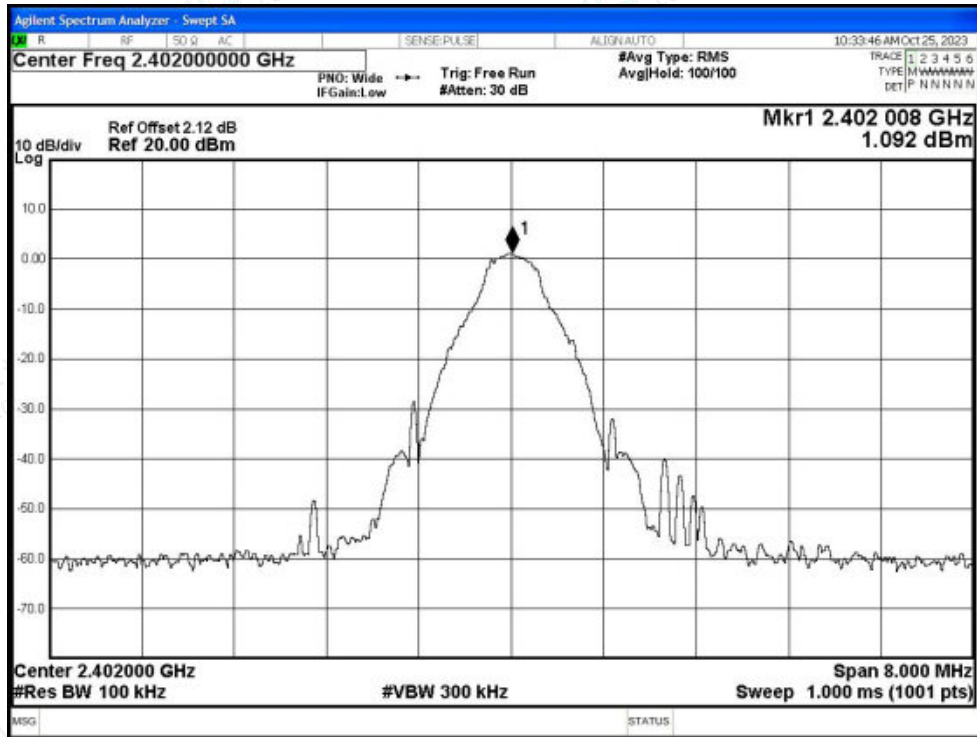


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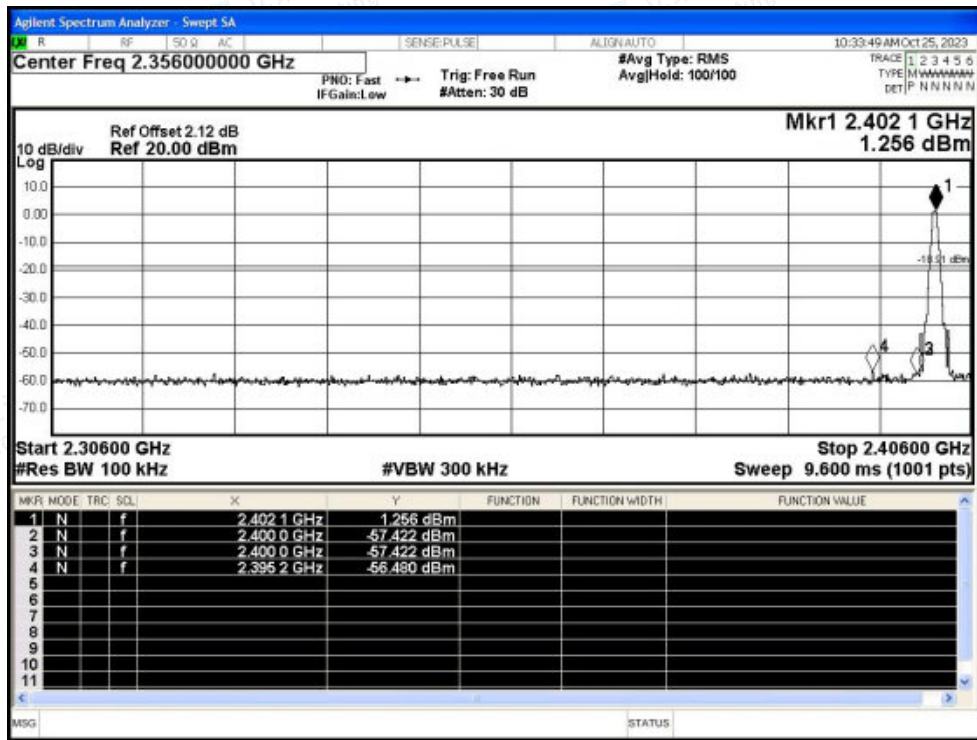


Test Graphs

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

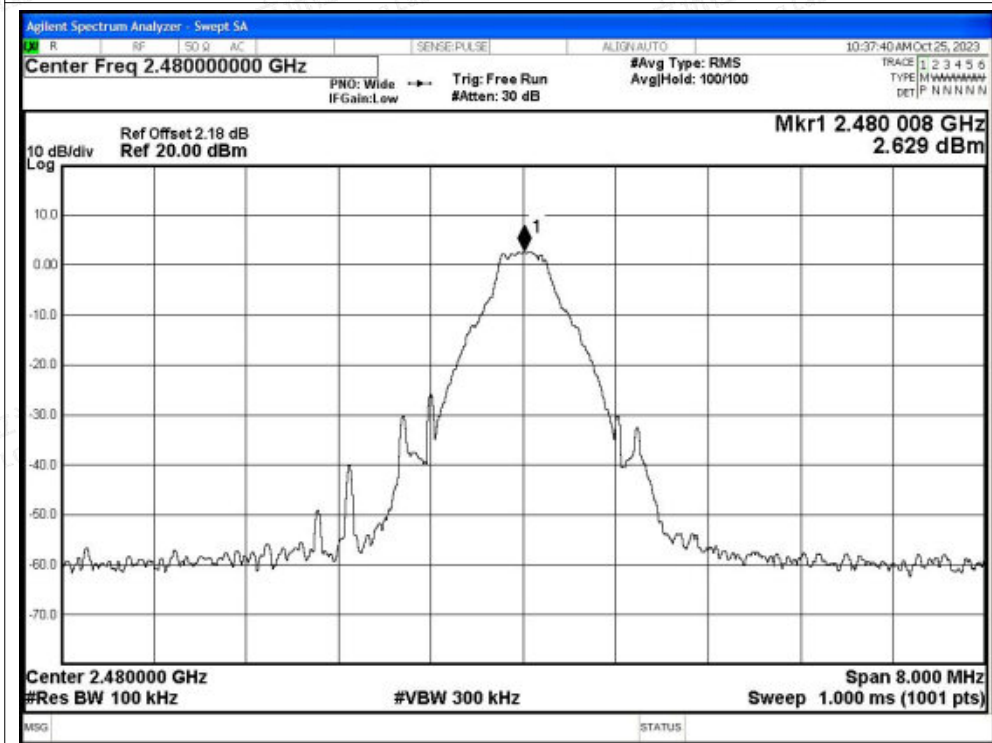


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

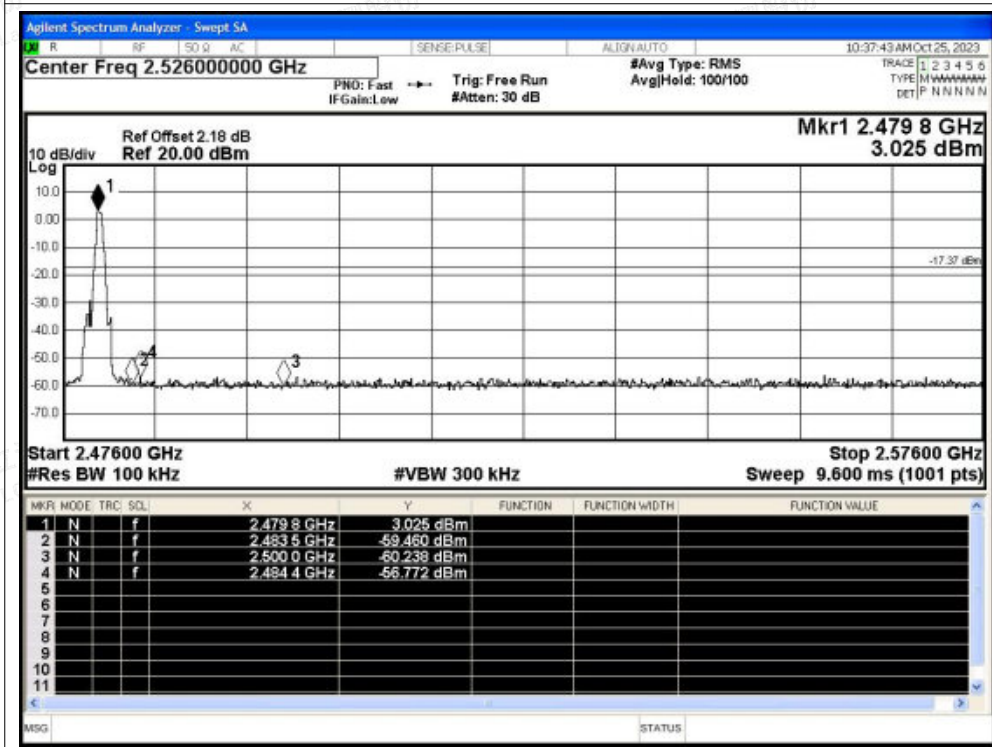




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

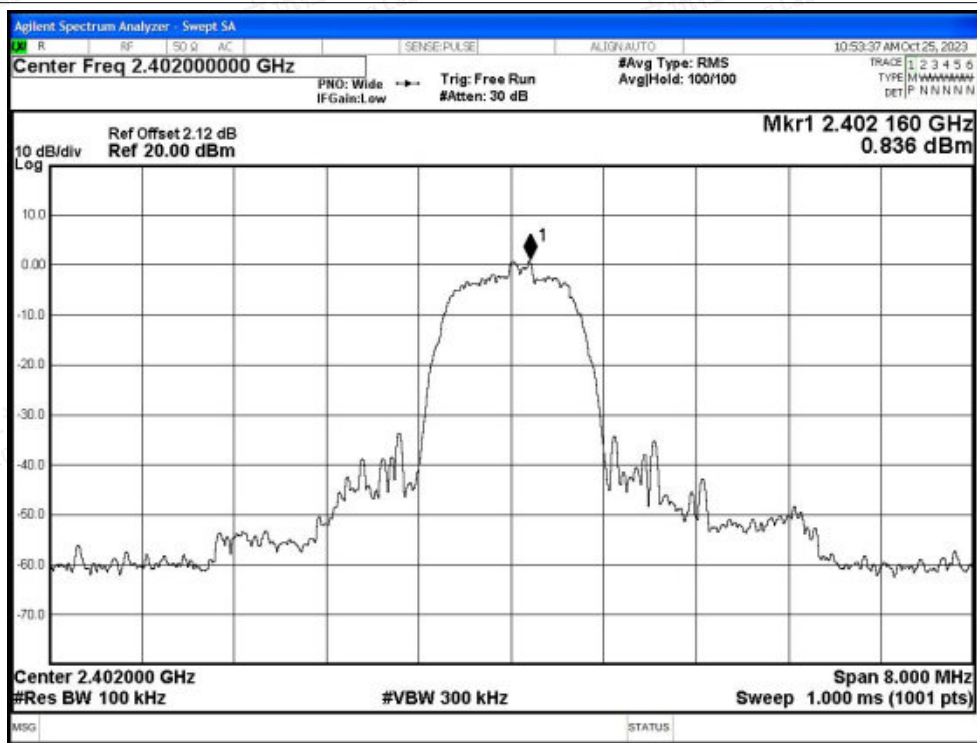


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

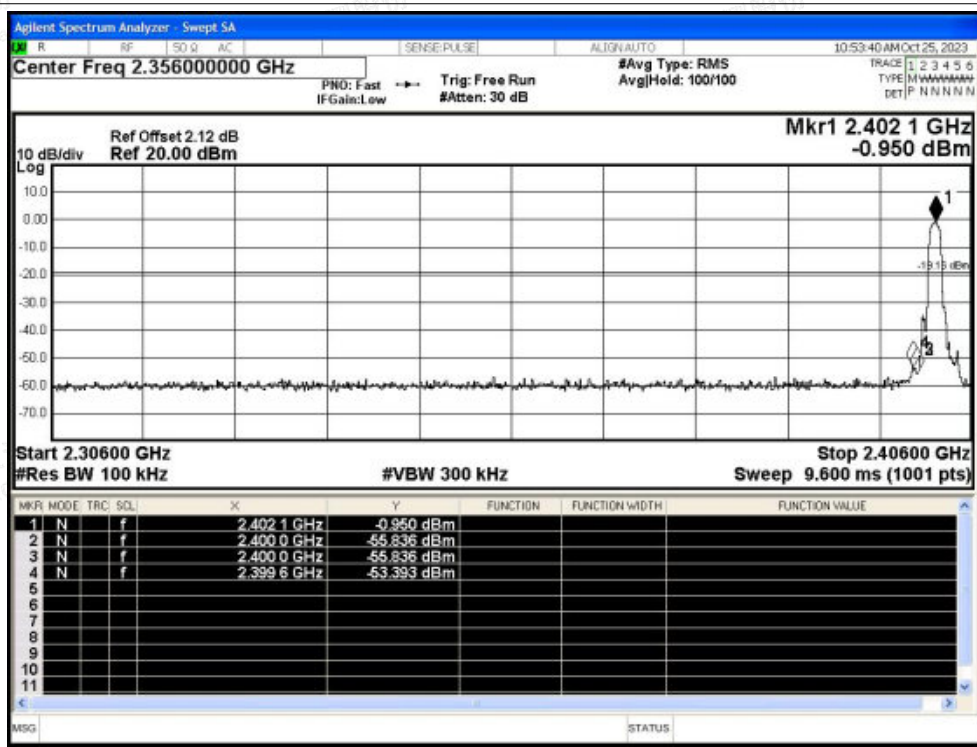




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

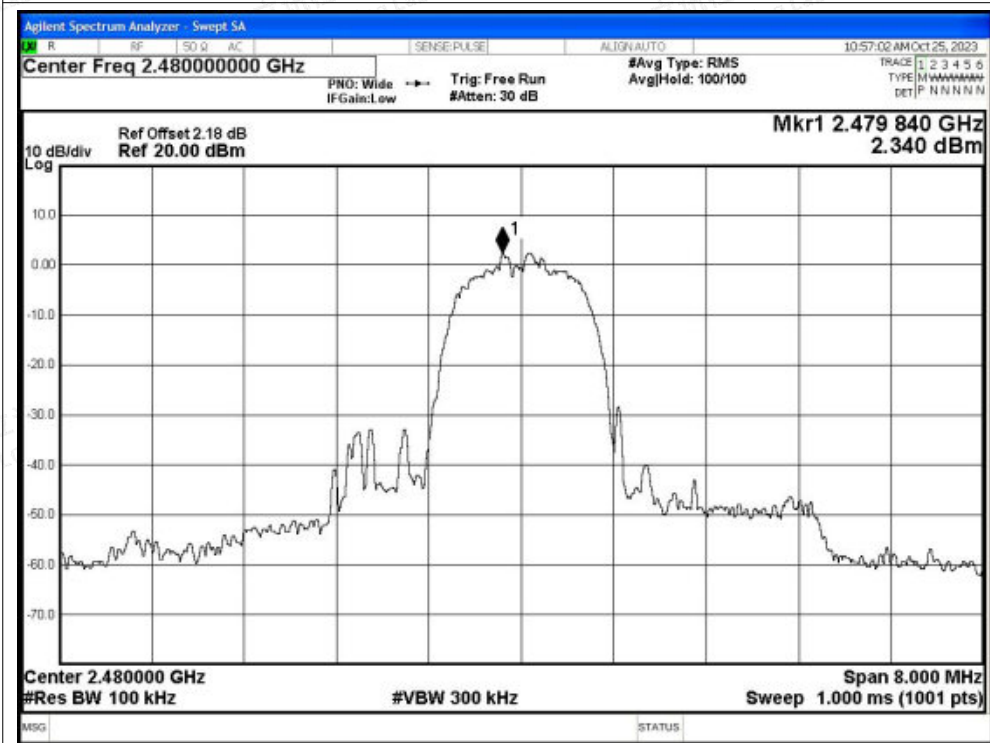


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

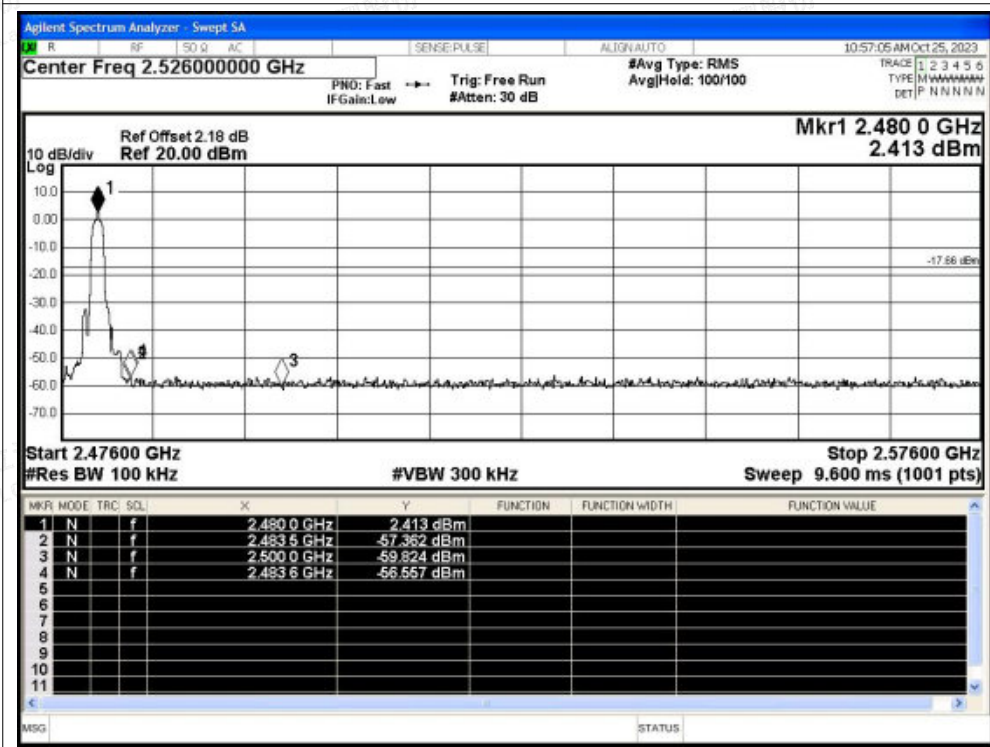




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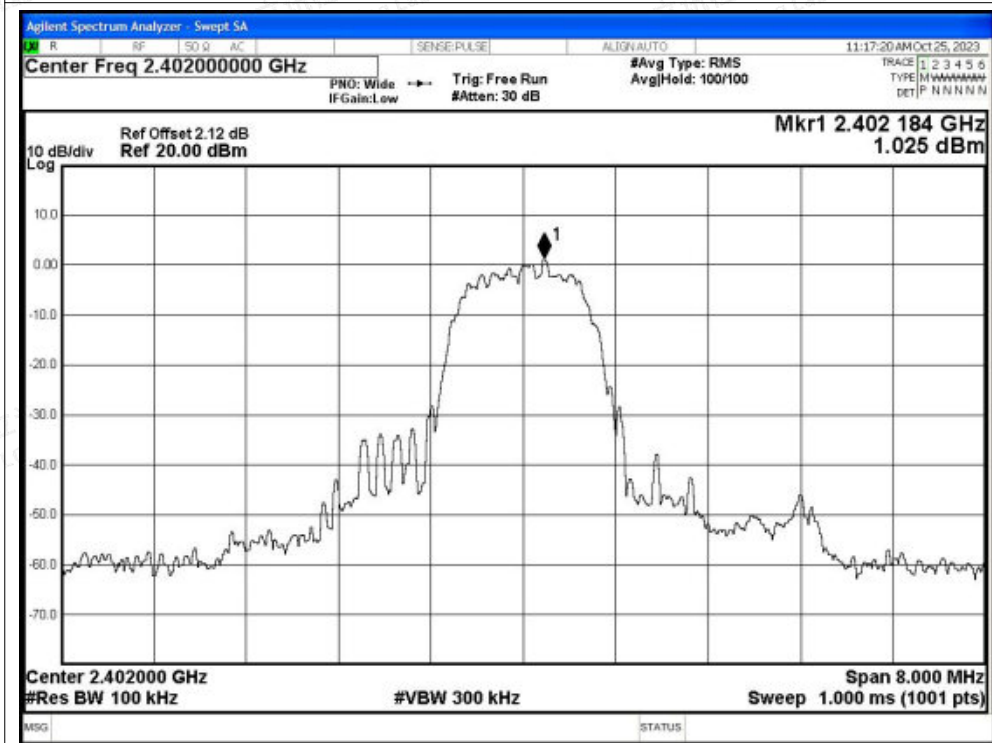


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

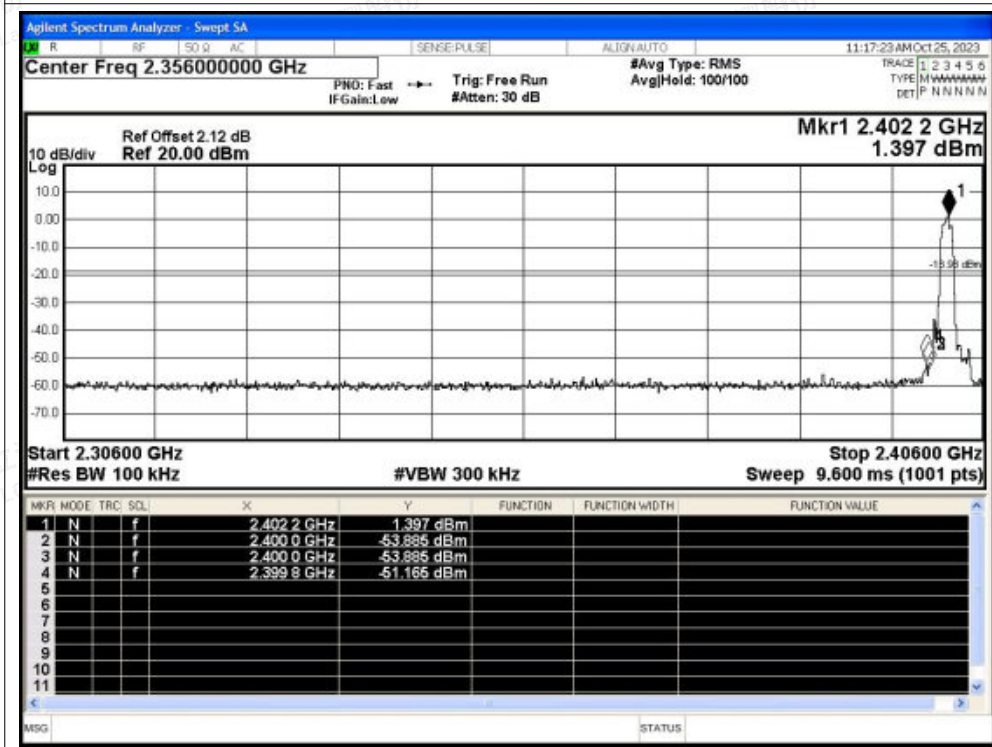




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

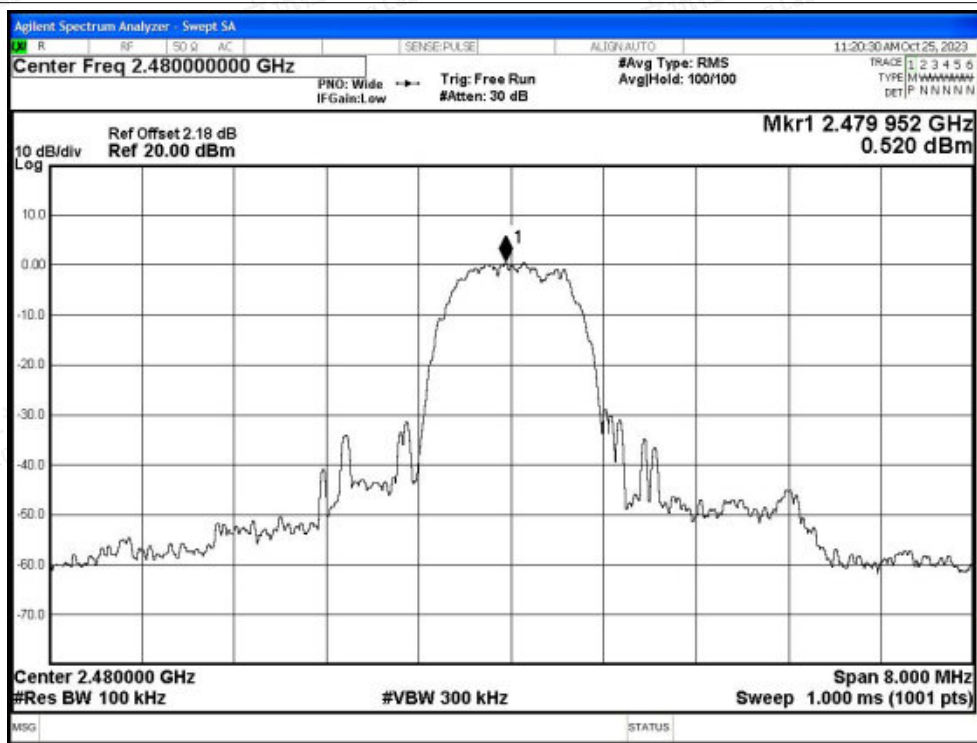


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

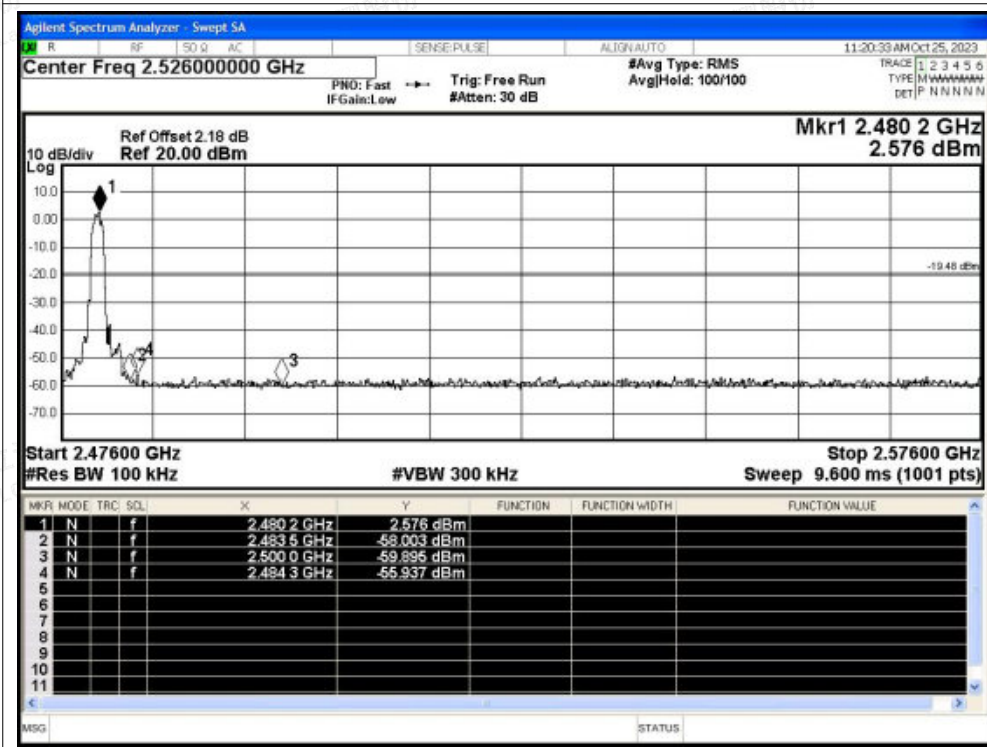




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-57.43	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-59.15	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.41	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.76	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-56.22	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-58.01	-20	Pass

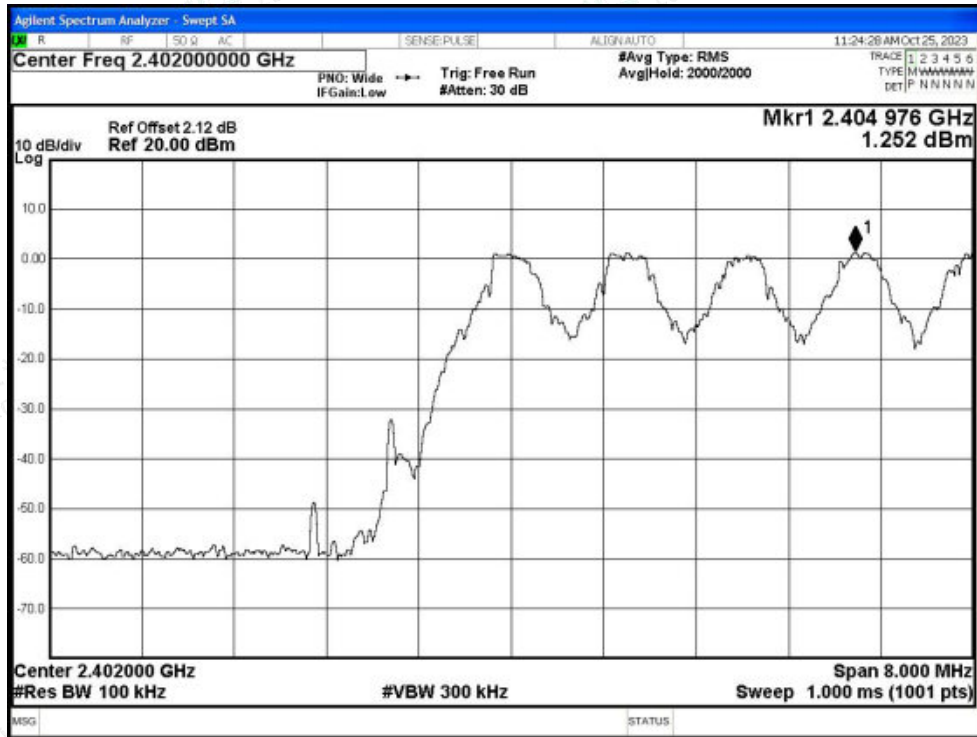


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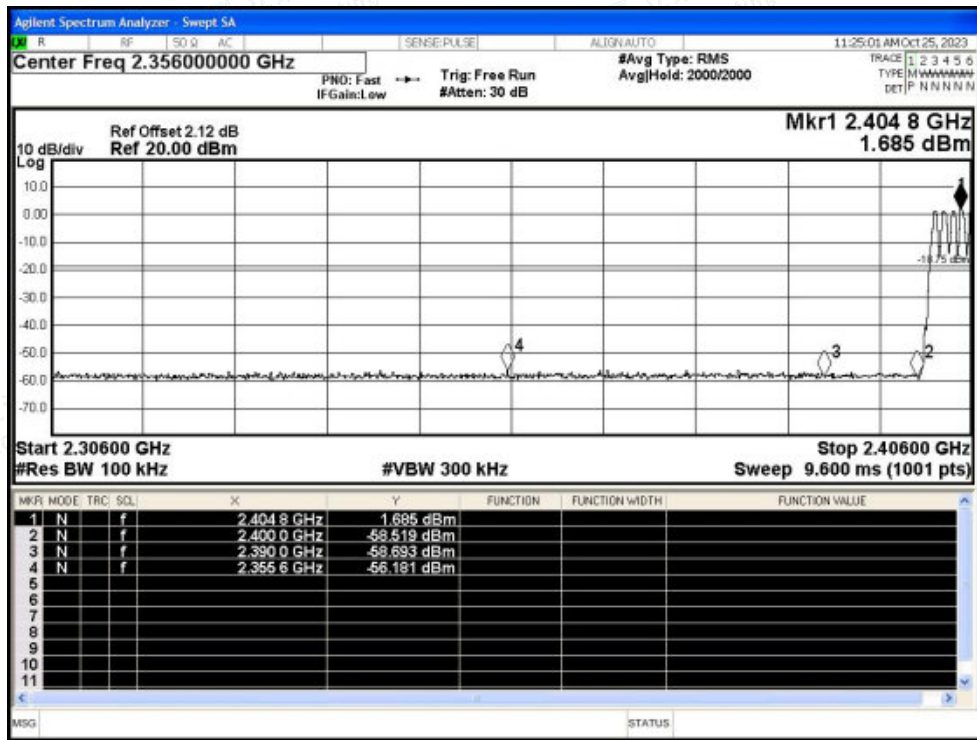


Test Graphs

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

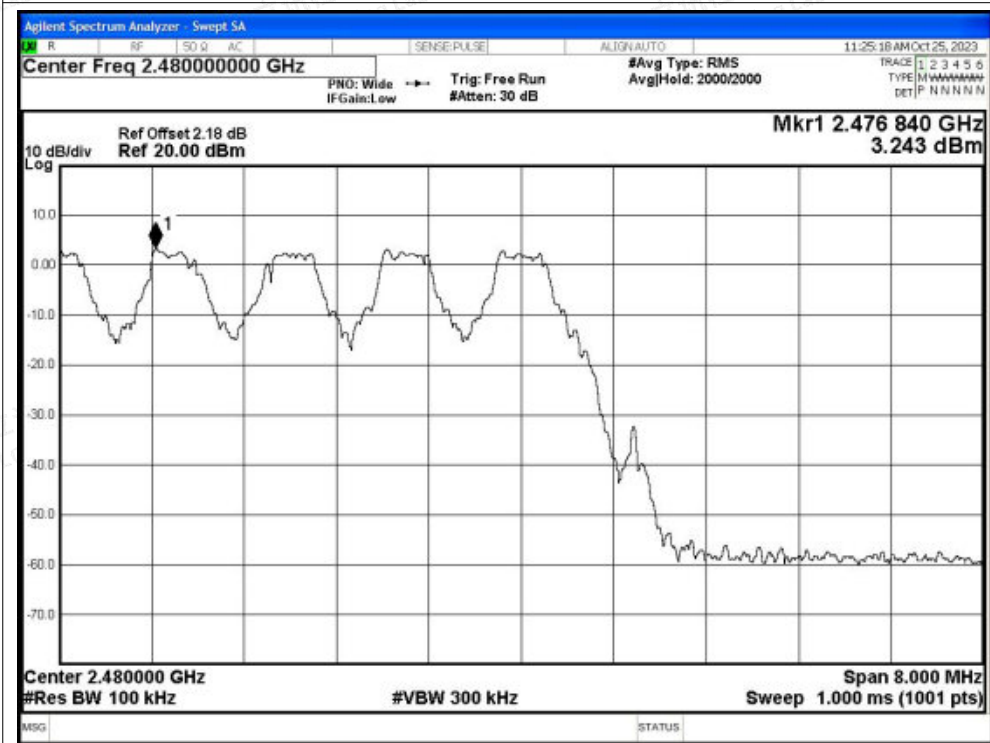


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

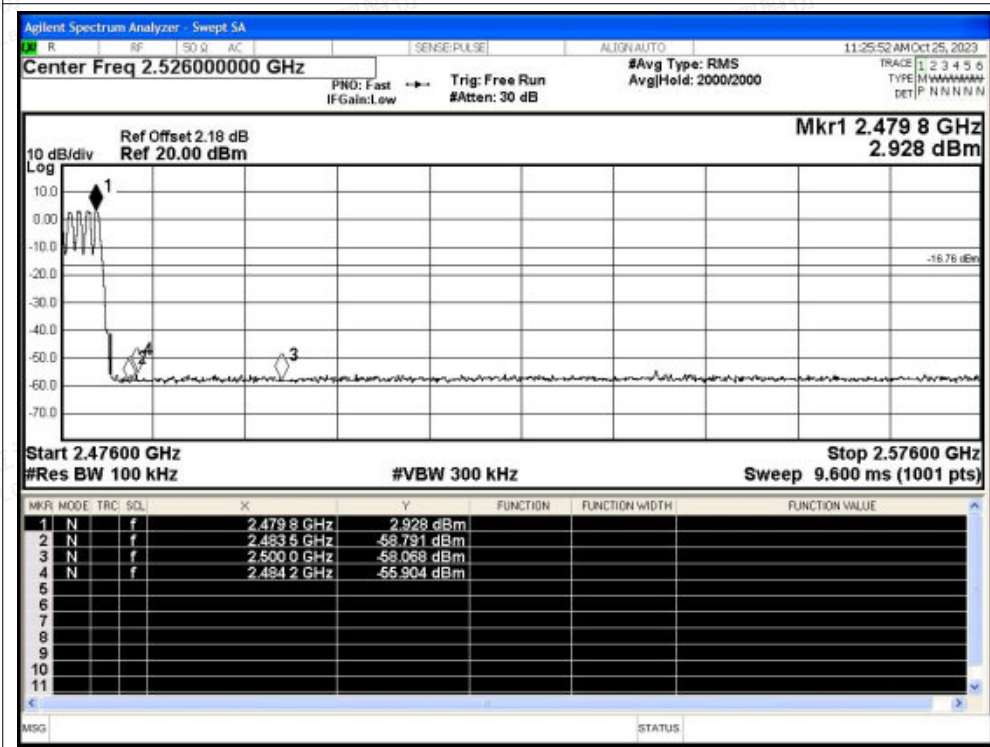




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

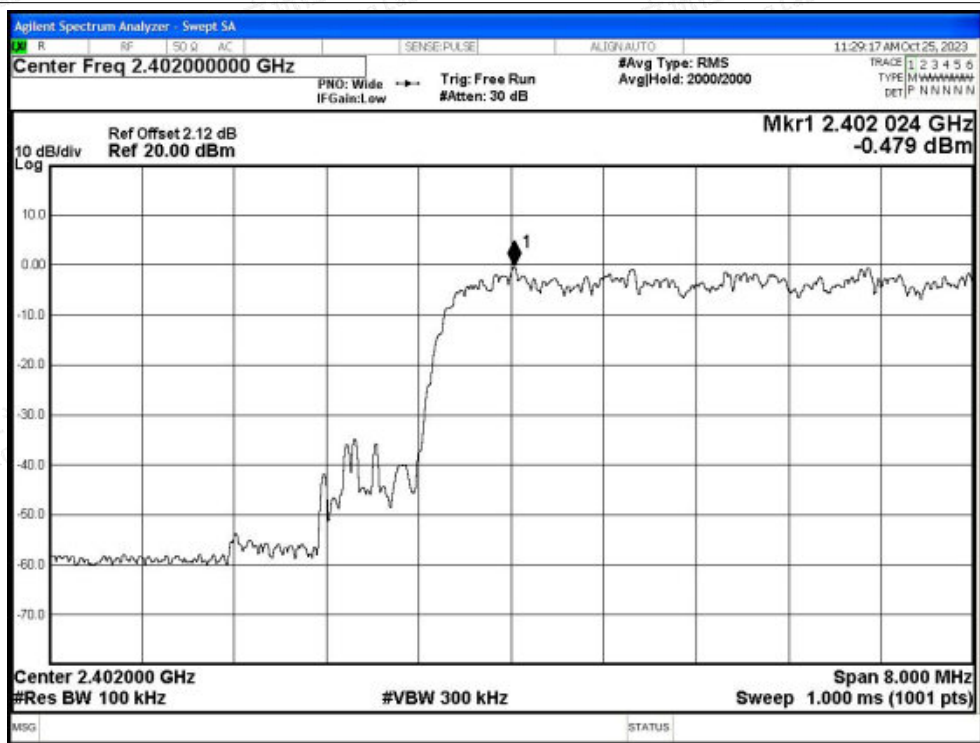


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

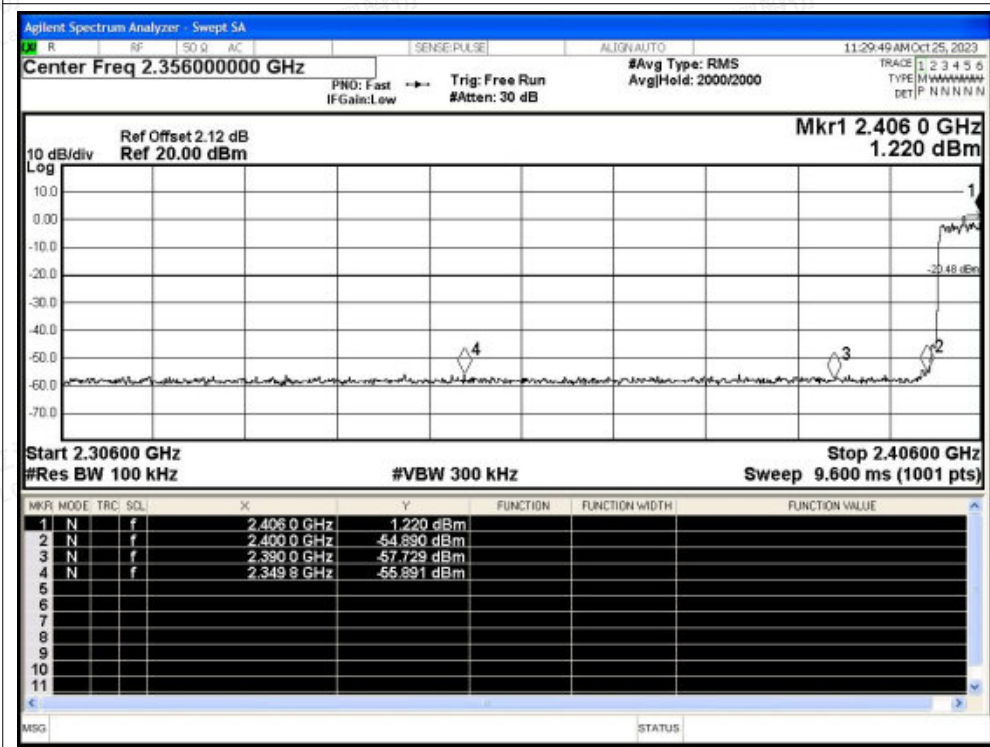




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

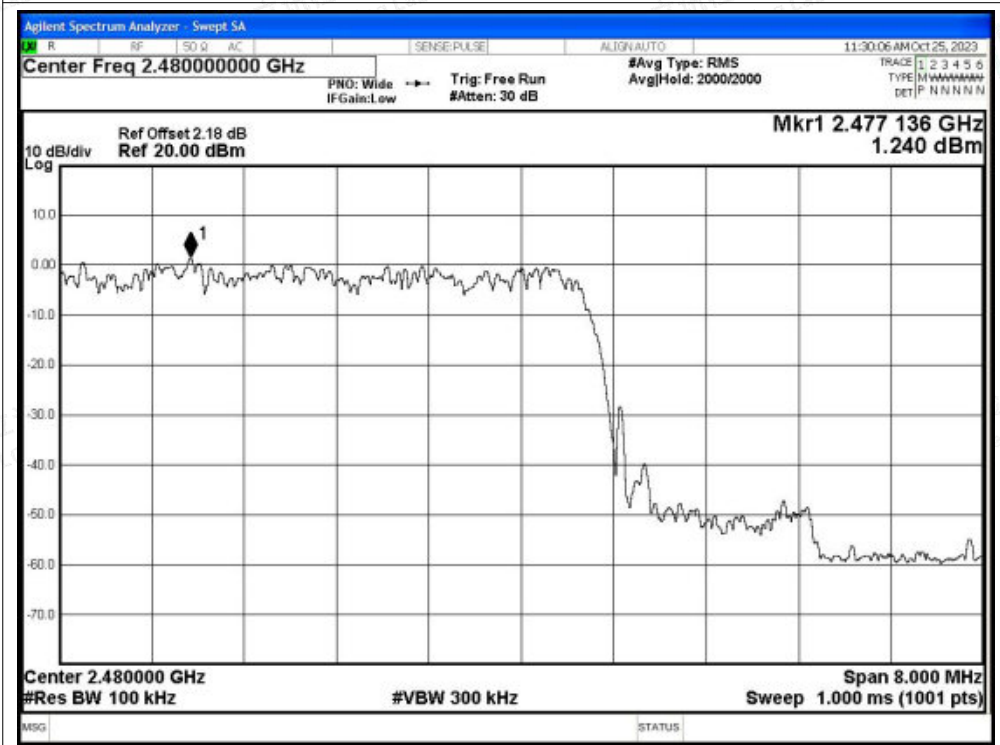


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

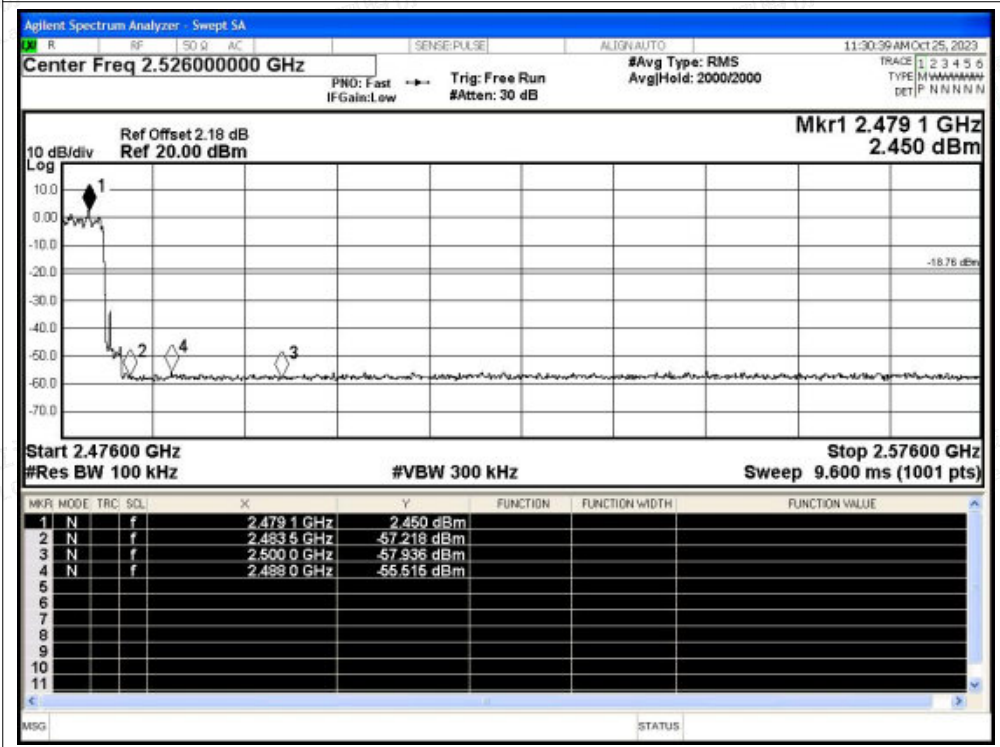




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

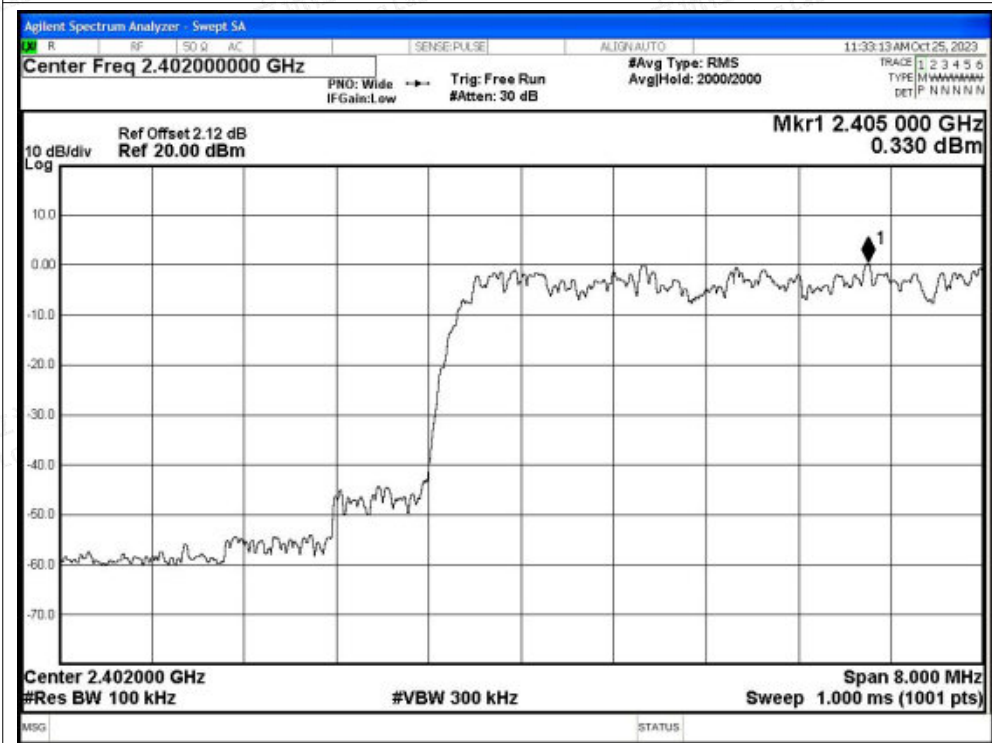


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

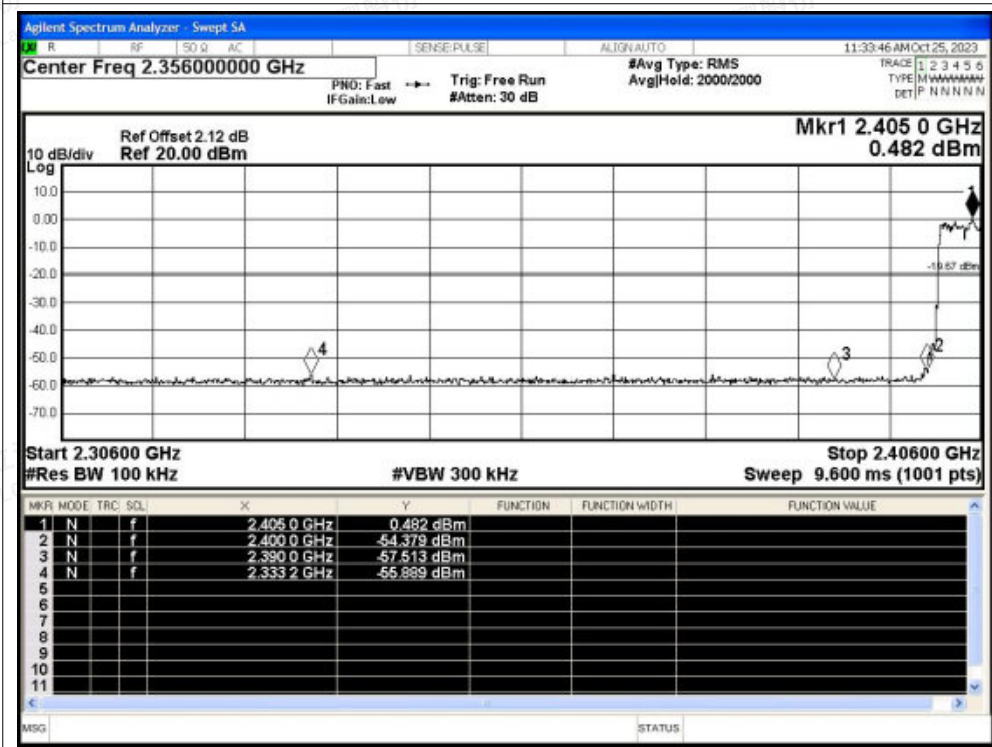




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

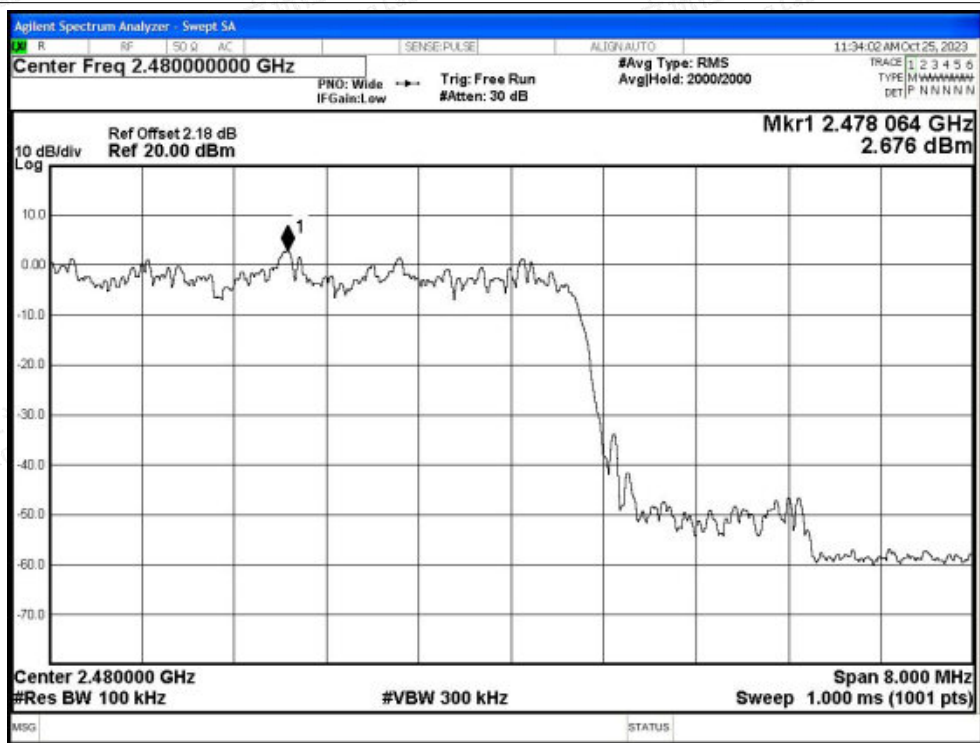


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

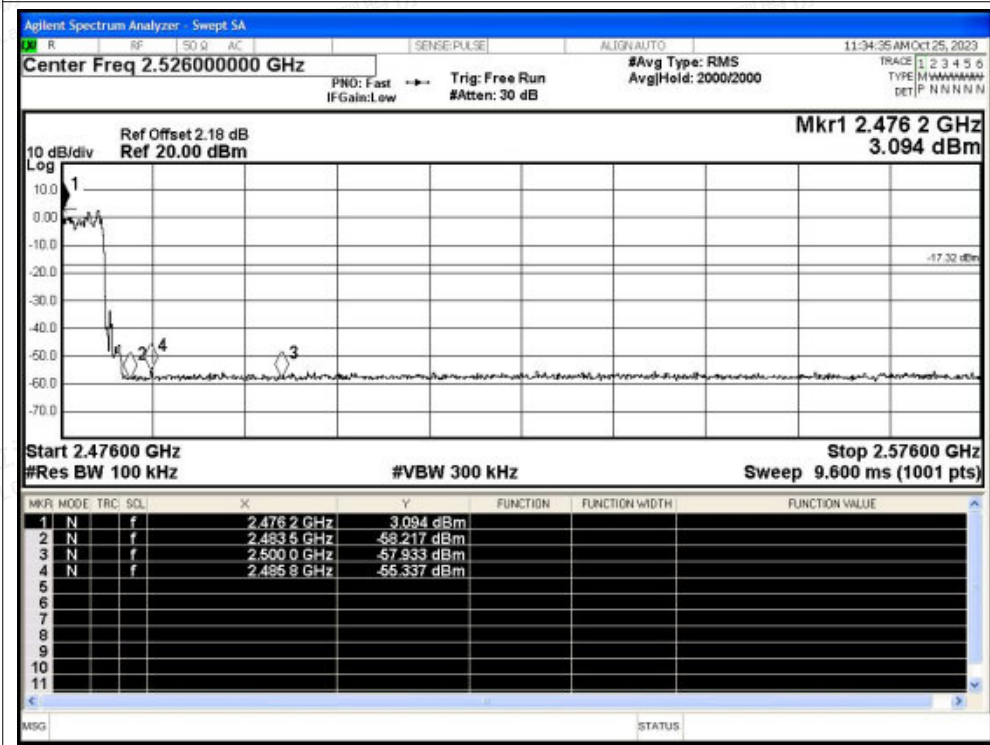




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-57.01	-20	Pass
NVNT	1-DH5	2441	Ant1	-58.06	-20	Pass
NVNT	1-DH5	2480	Ant1	-58.01	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.88	-20	Pass
NVNT	2-DH5	2441	Ant1	-58.31	-20	Pass
NVNT	2-DH5	2480	Ant1	-58.25	-20	Pass
NVNT	3-DH5	2402	Ant1	-56.93	-20	Pass
NVNT	3-DH5	2441	Ant1	-58.87	-20	Pass
NVNT	3-DH5	2480	Ant1	-57.15	-20	Pass

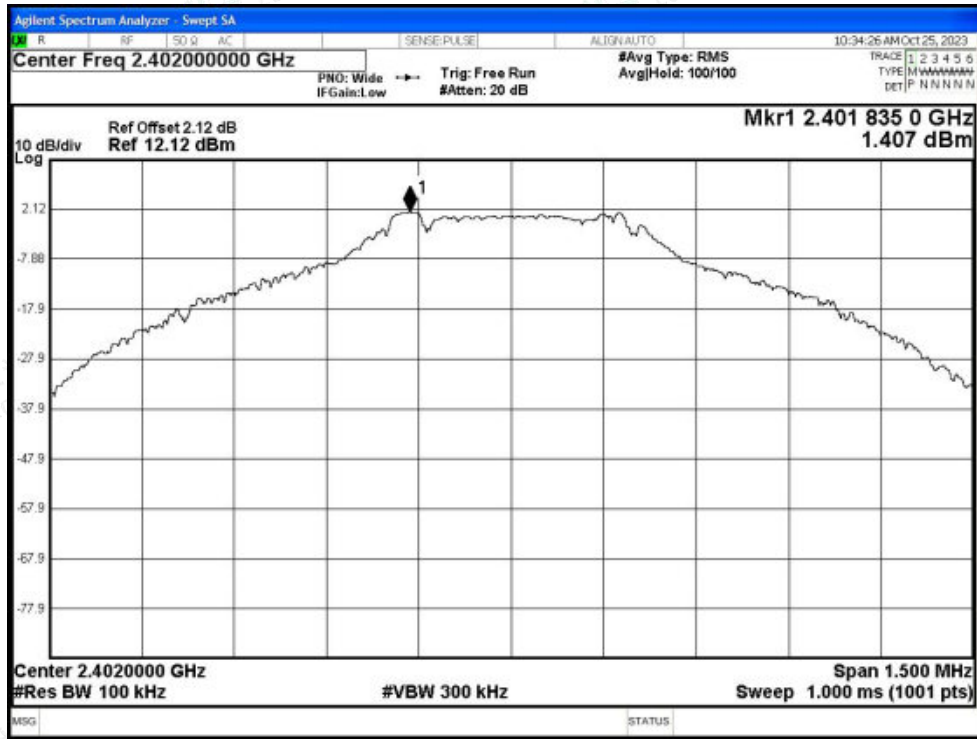


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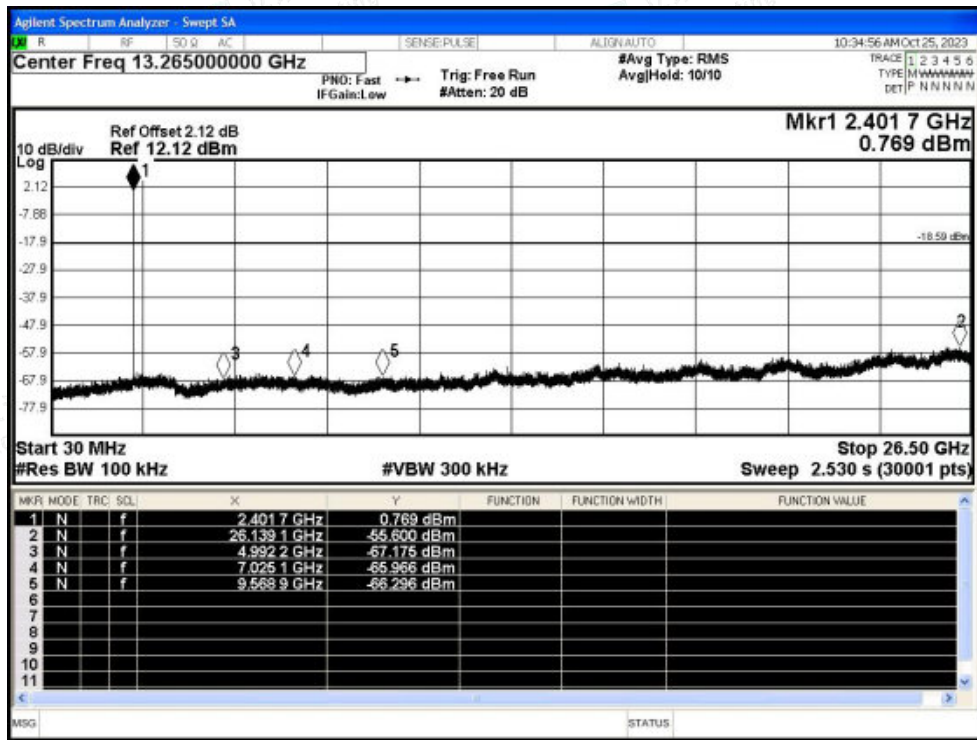


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

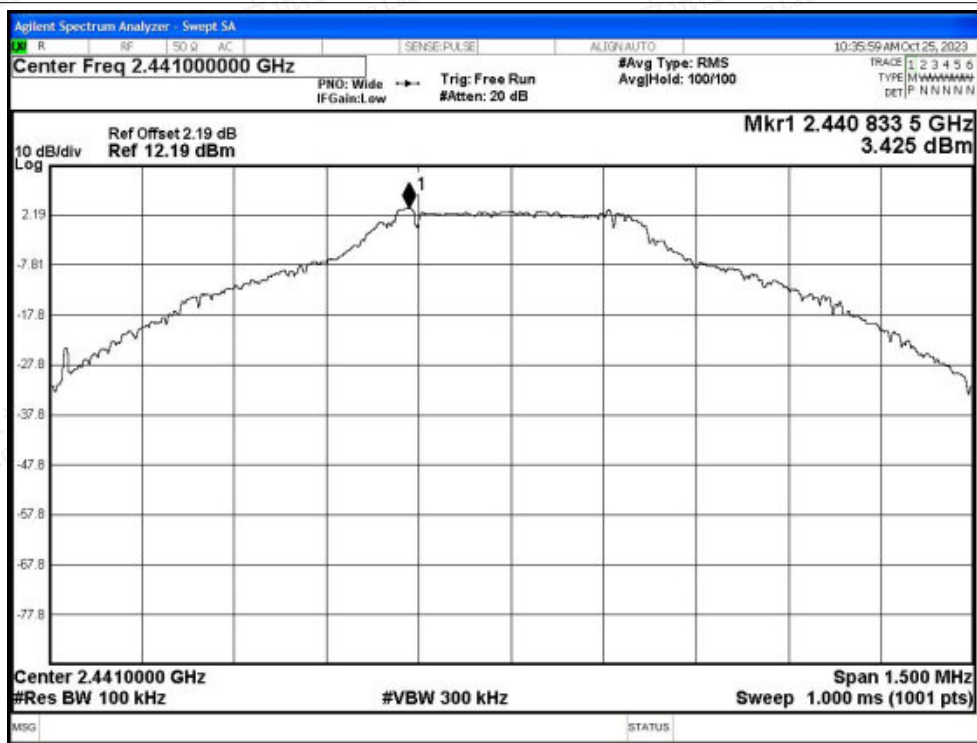


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

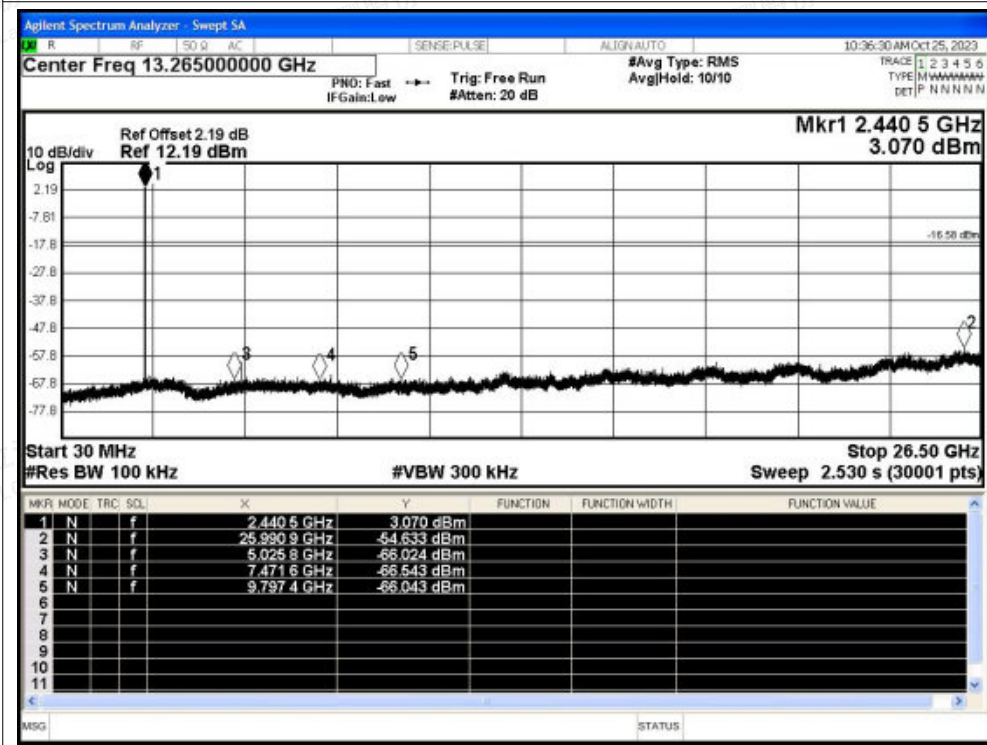




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

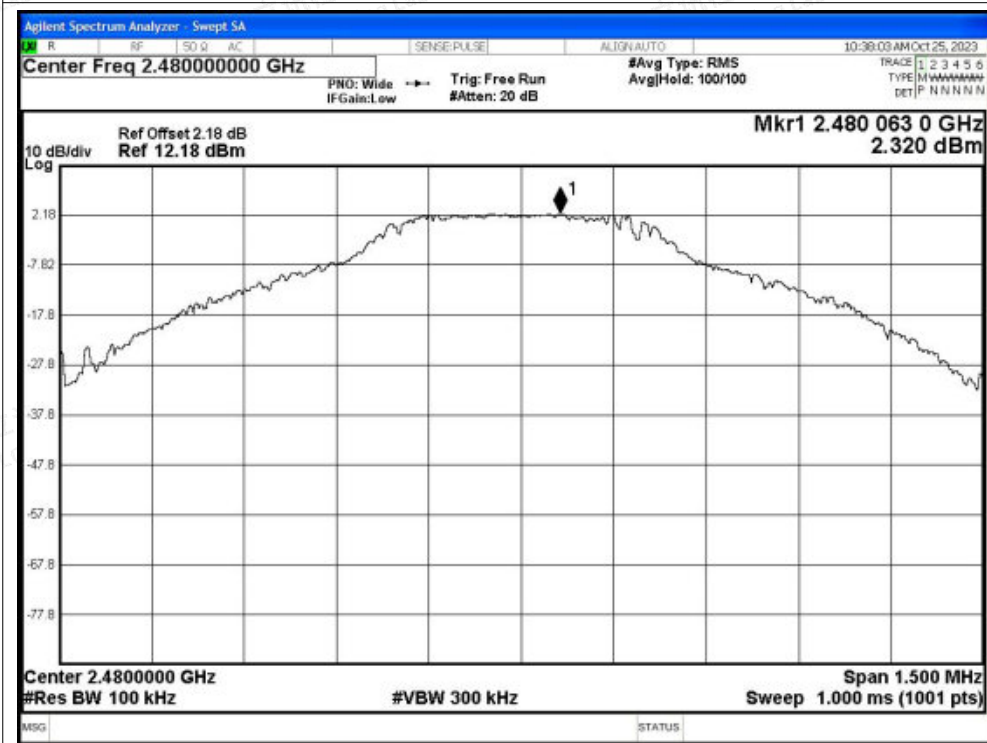


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

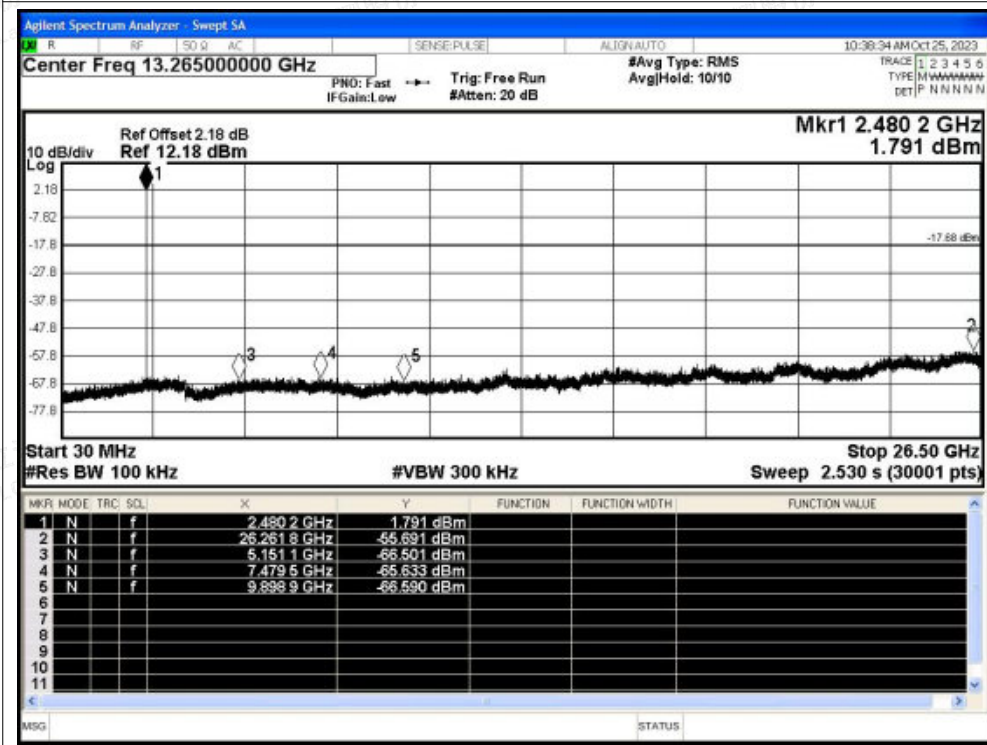




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

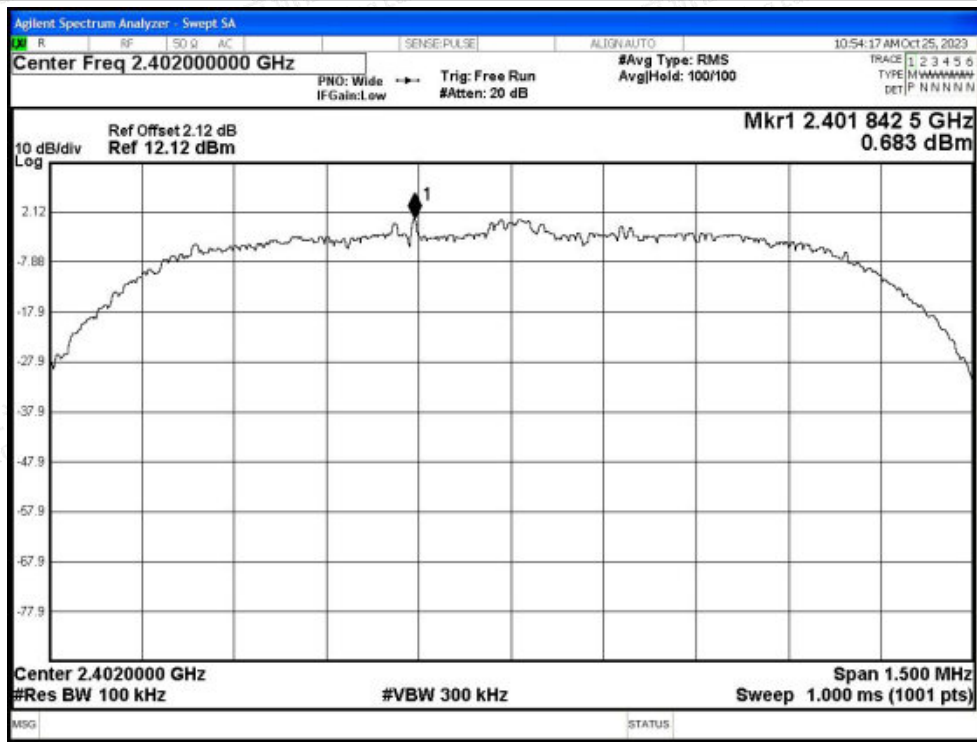


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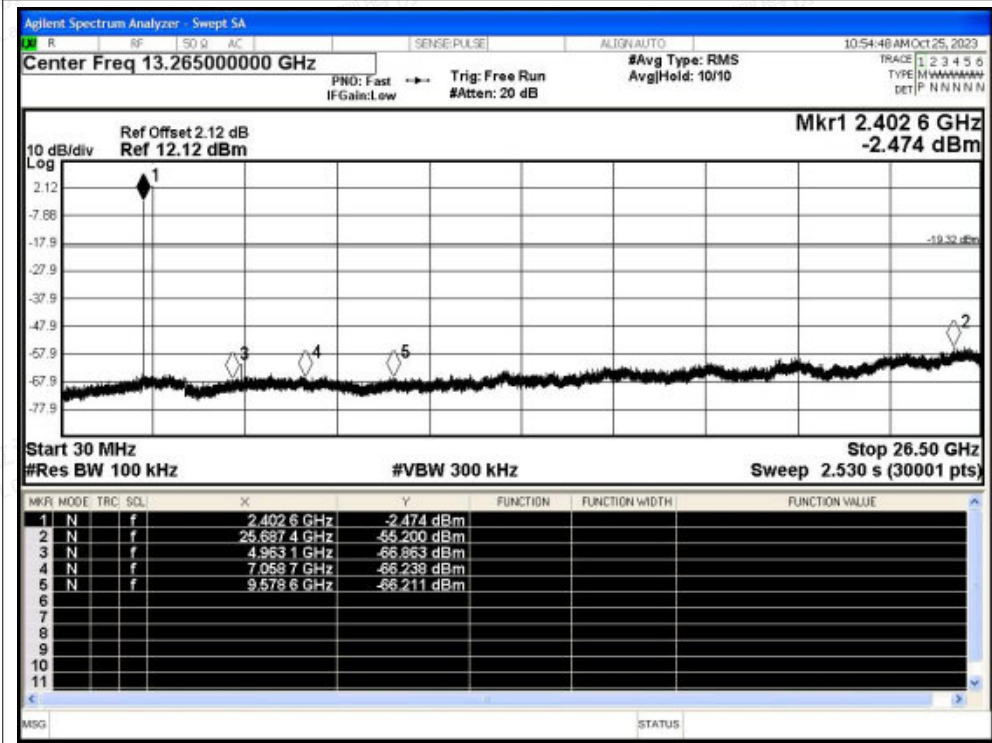




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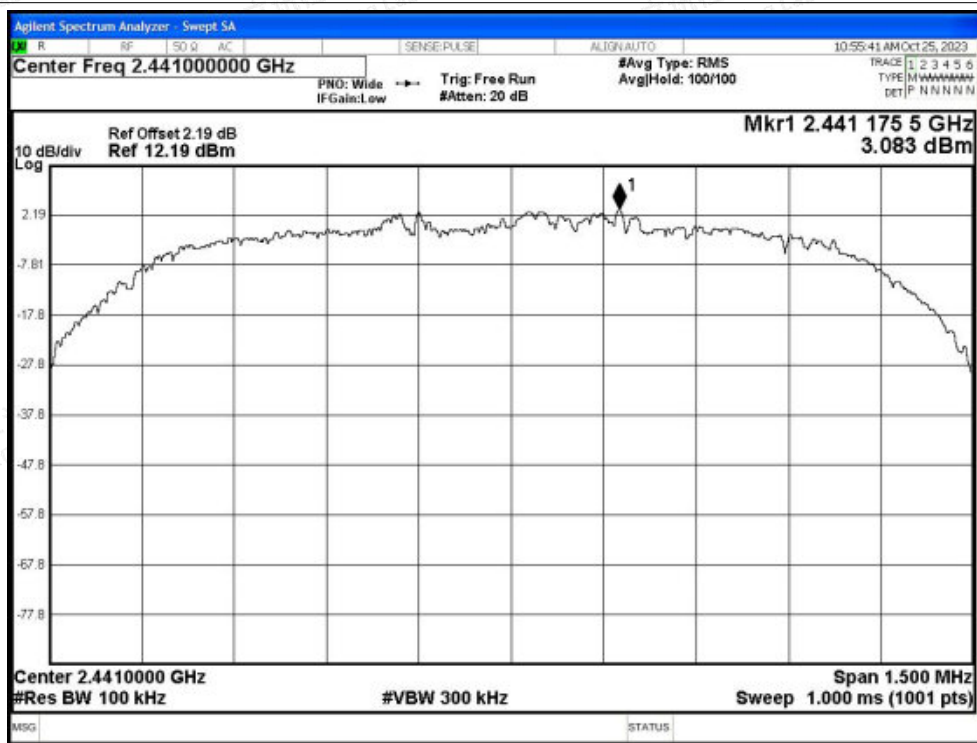


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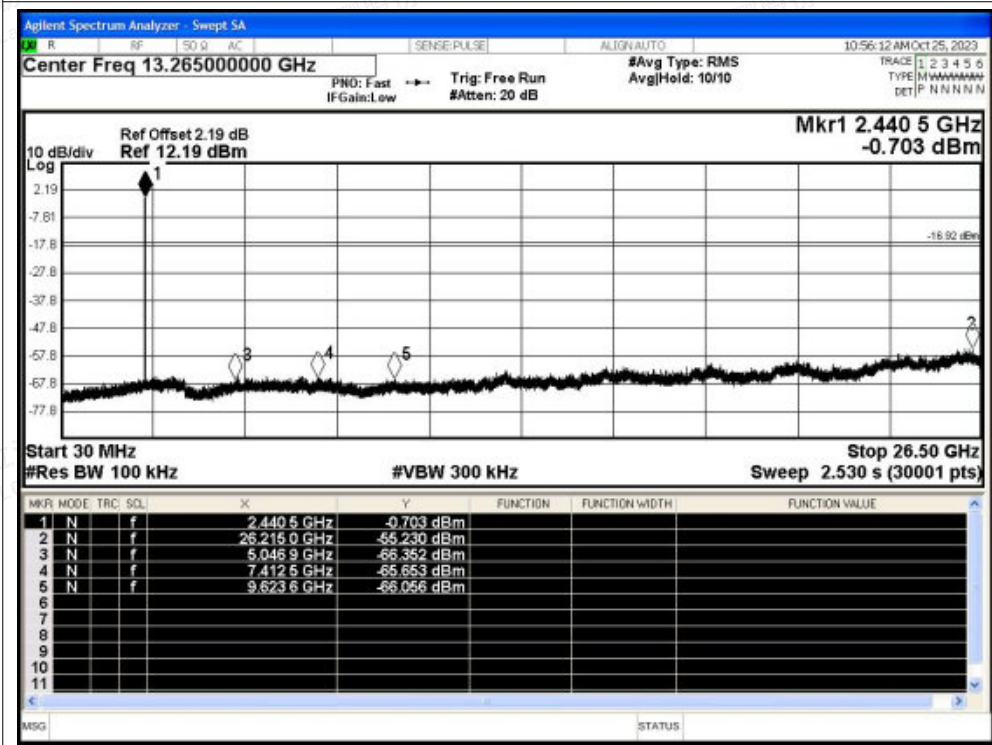




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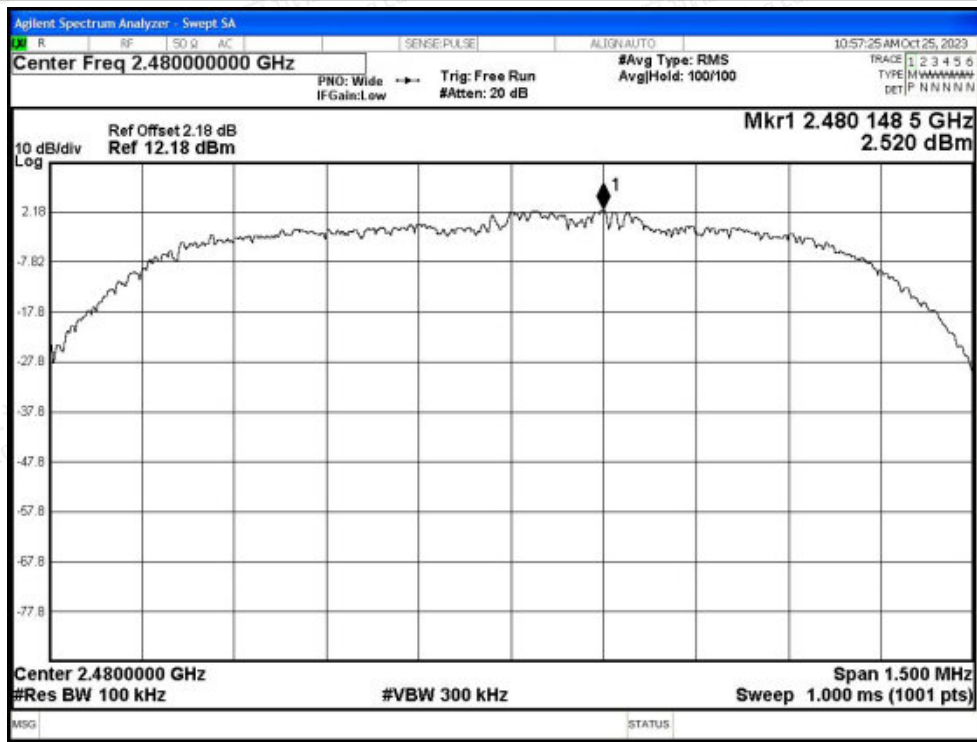


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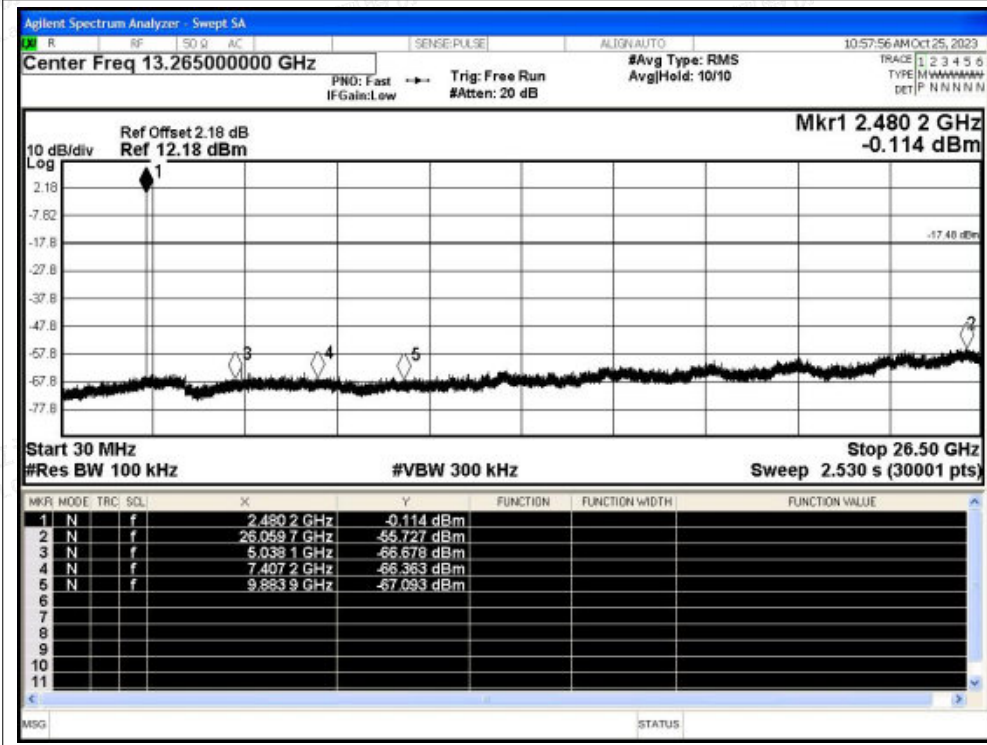




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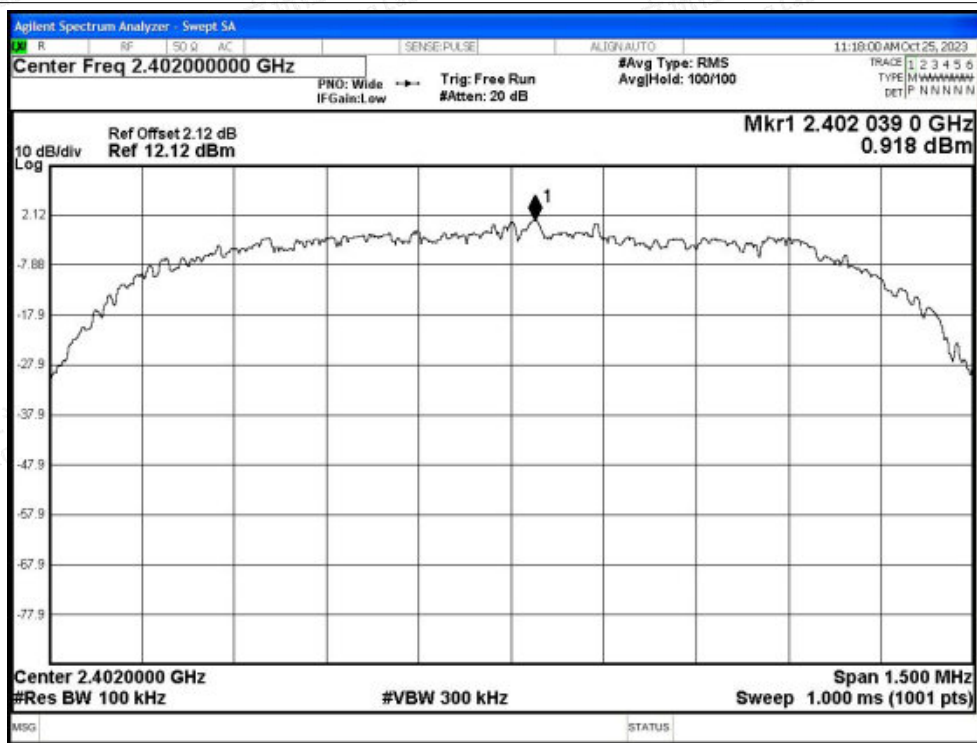


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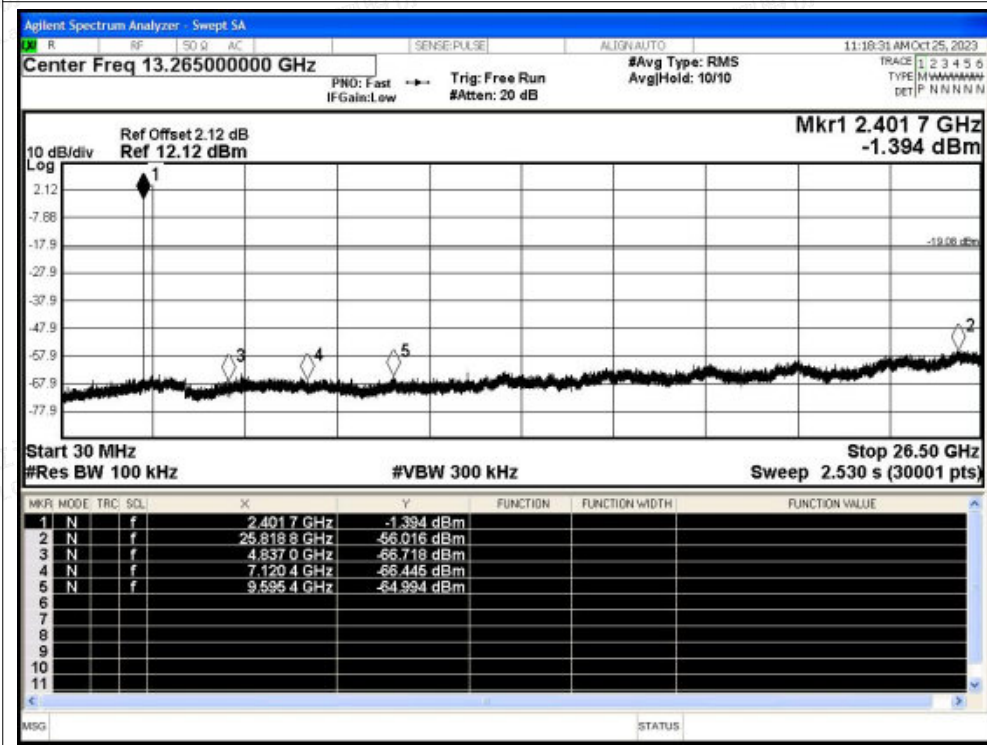




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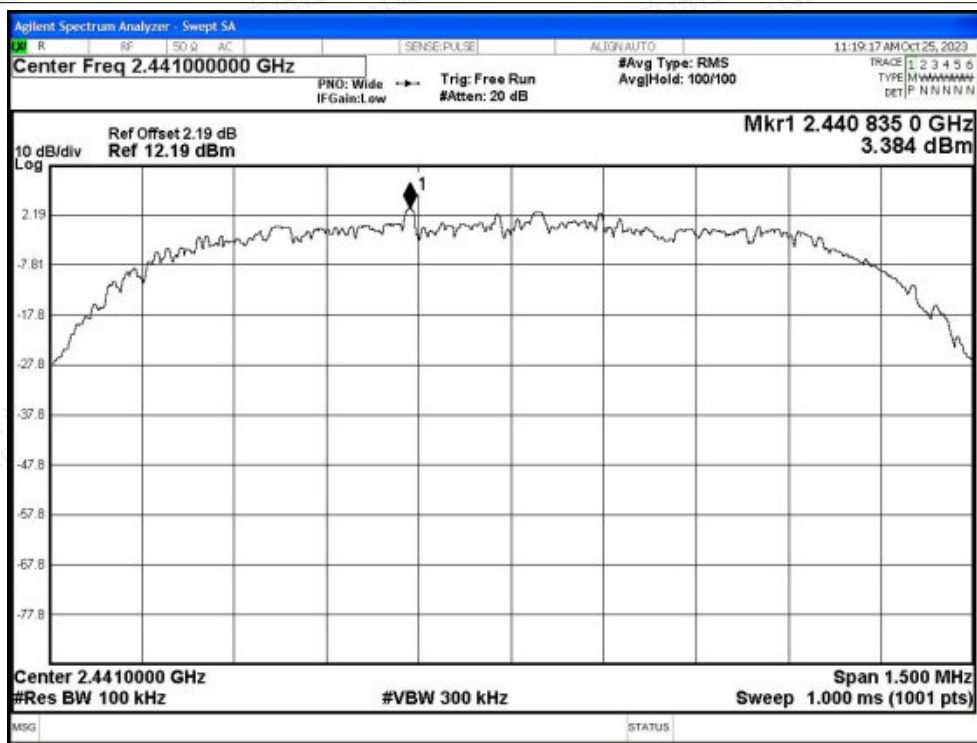


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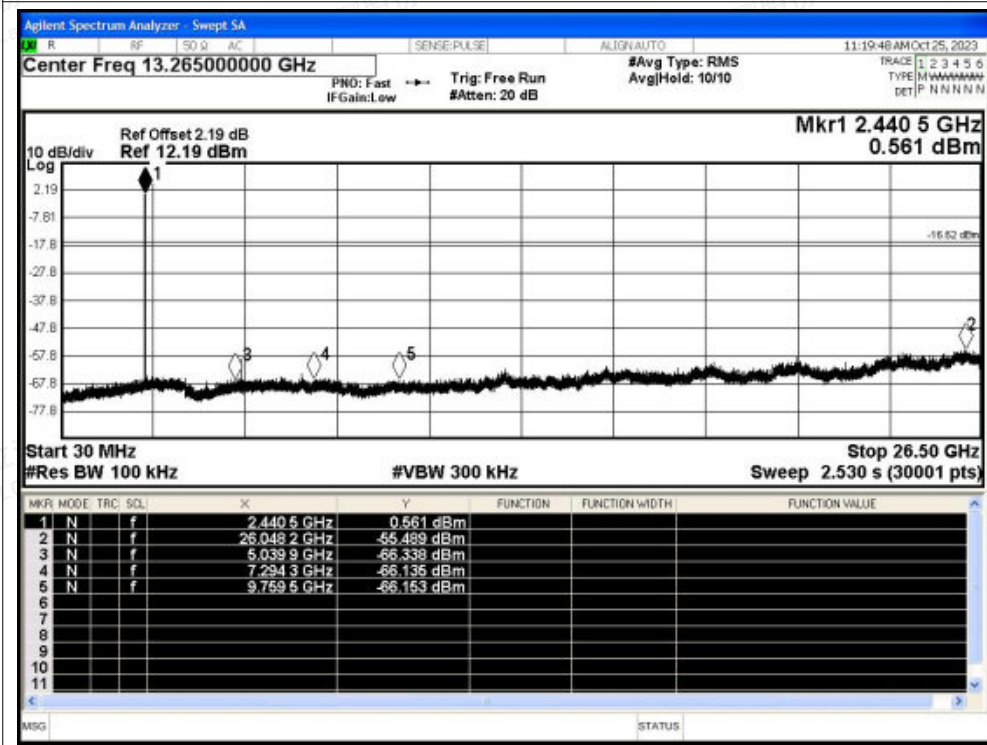




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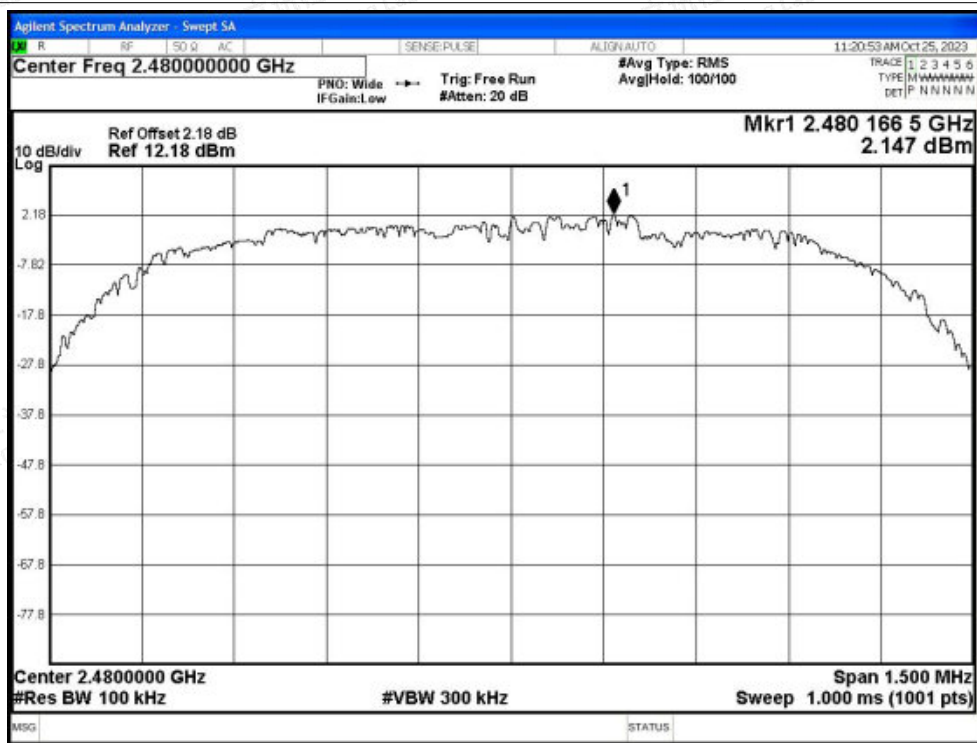


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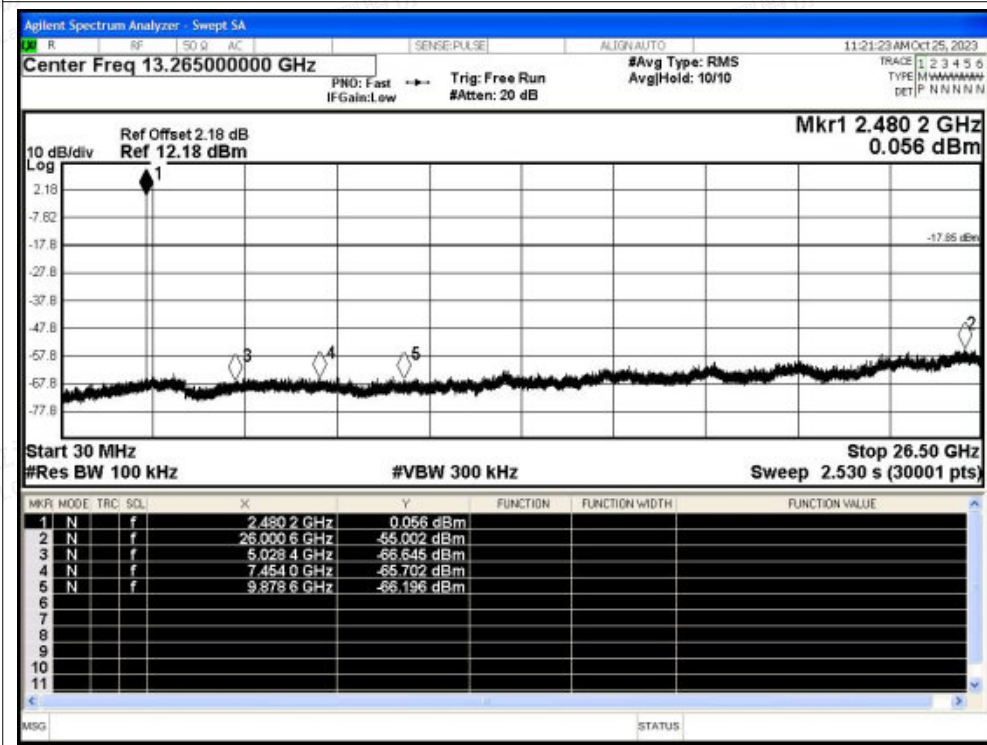




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.04	2	46.22	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.98	2	39.28	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2311.344	-47.33	2	49.93	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2388.816	-57.3	2	39.96	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.26	2	47	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.47	2	39.79	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.22	2	49.04	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-54.65	2	42.61	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.4	-47.08	2	50.18	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-54.65	2	42.61	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.57	2	47.69	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.3	2	39.96	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.8	2	46.46	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.89	2	39.37	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2335.344	-47.2	2	50.06	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.432	-57.34	2	39.92	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.93	2	47.33	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.41	2	39.85	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-47.95	2	49.31	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-52.66	2	44.6	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.256	-46.57	2	50.69	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-52.66	2	44.6	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.65	2	46.61	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.26	2	40	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.42	2	45.84	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.78	2	39.48	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2387.856	-47.29	2	49.97	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.488	-57.32	2	39.94	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.43	2	46.83	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.39	2	39.87	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-47.85	2	49.41	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-52.55	2	44.71	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.56	-46.73	2	50.53	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-52.55	2	44.71	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.36	2	46.9	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.13	2	40.13	Average	54	Pass

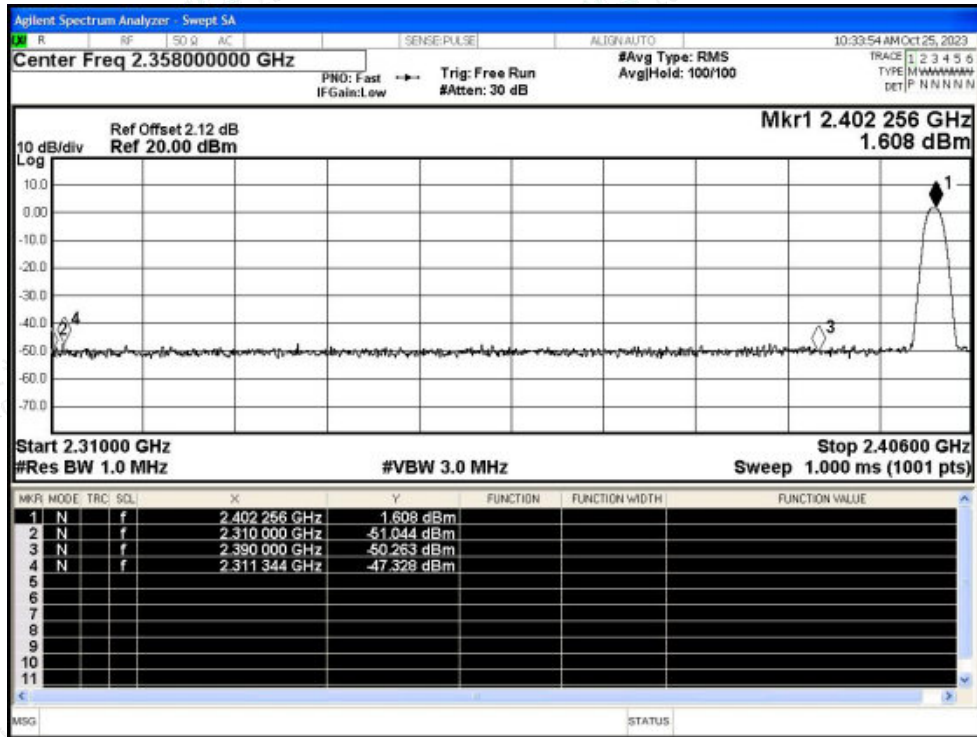


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 Scan code to check authenticity

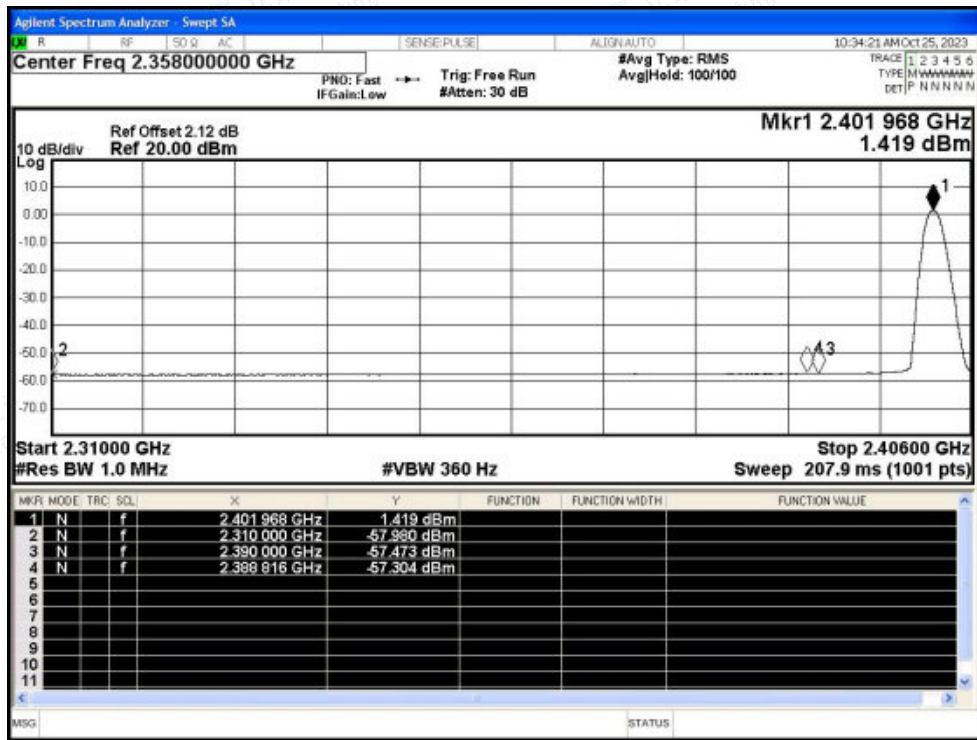


Test Graphs

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

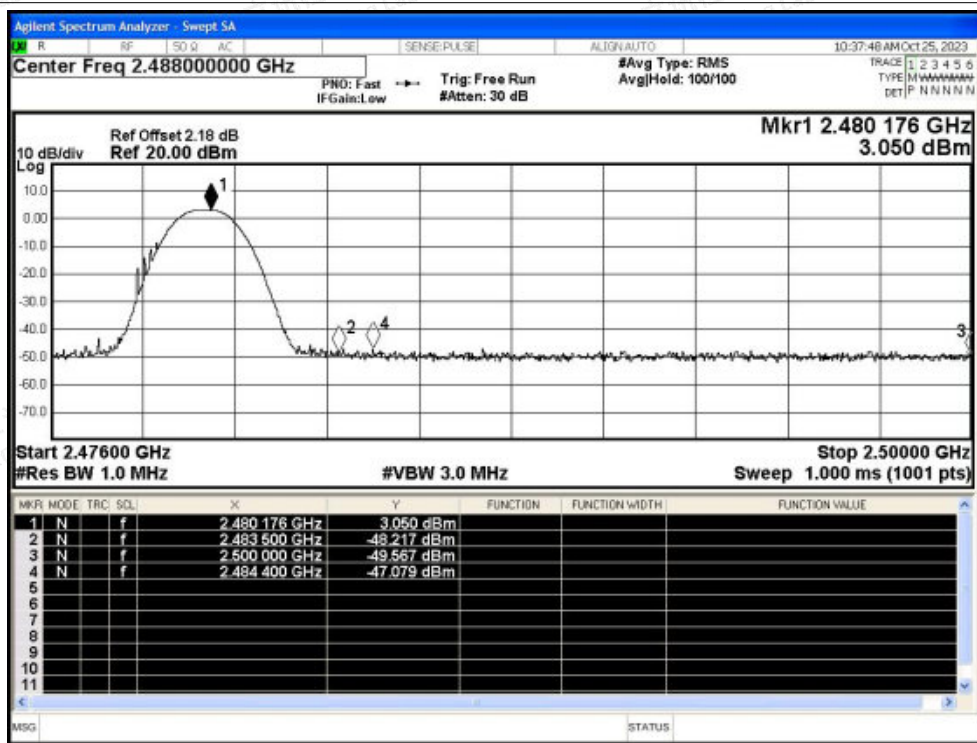


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

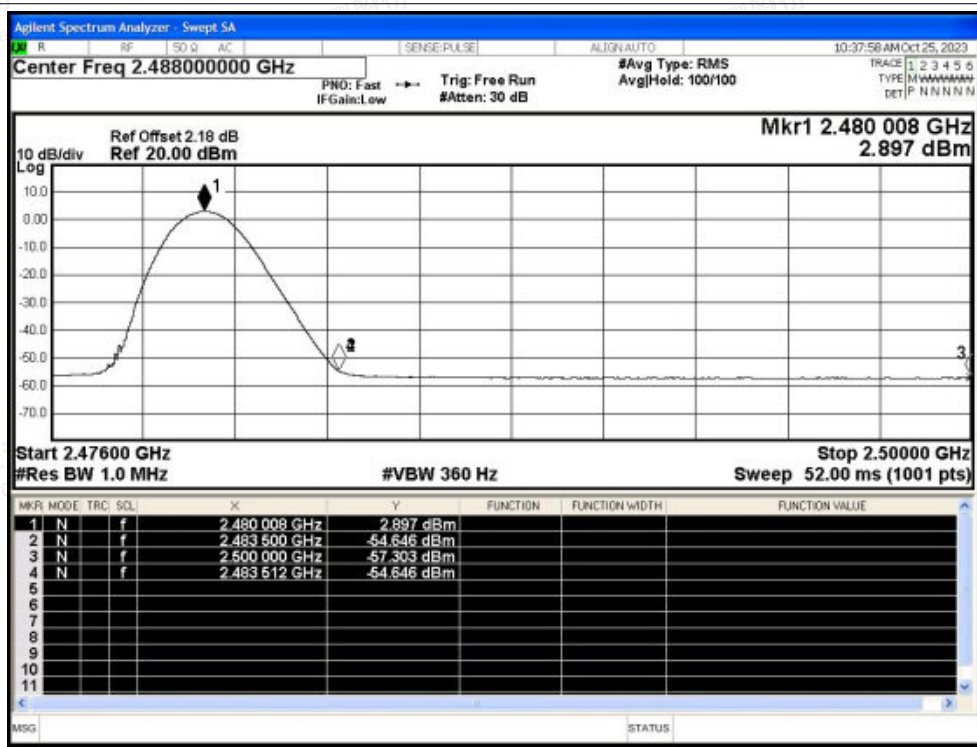




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

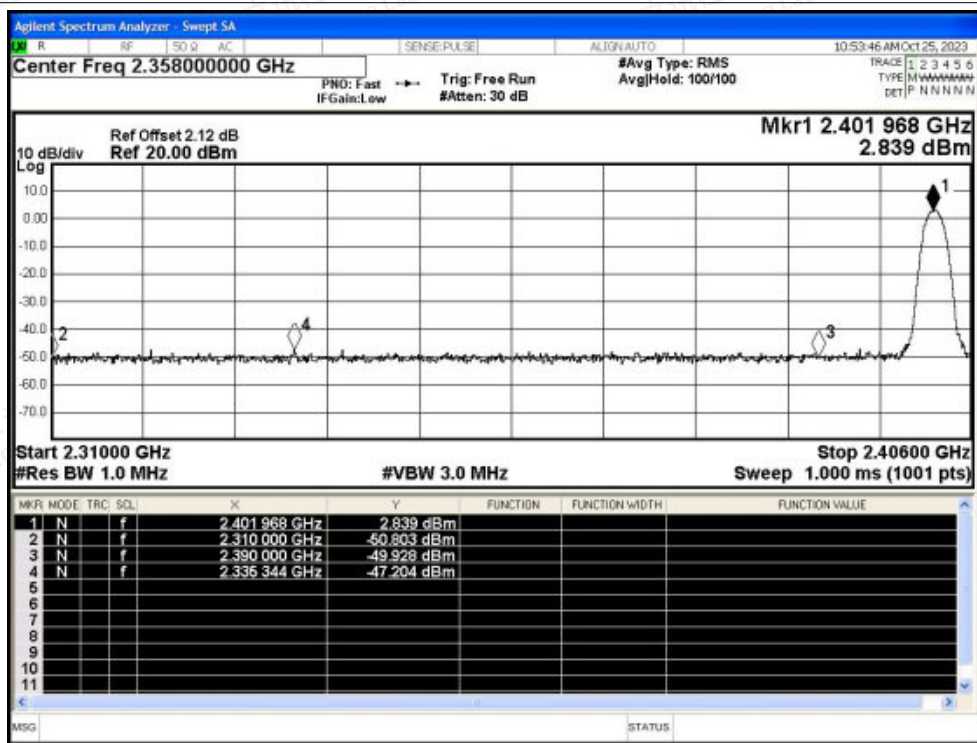


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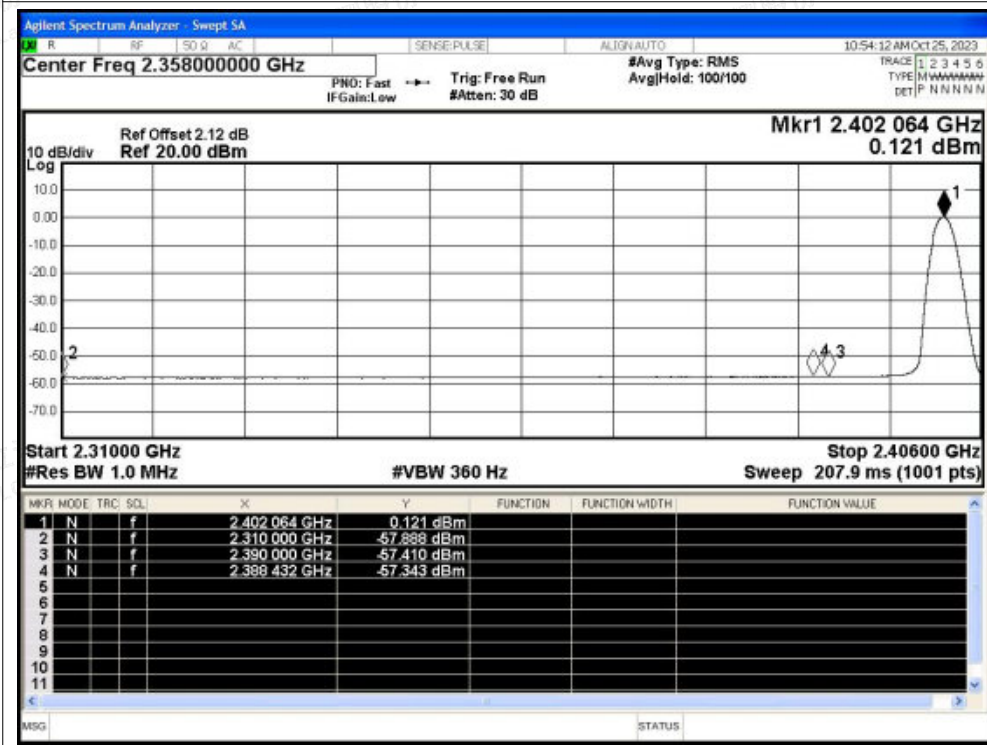




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

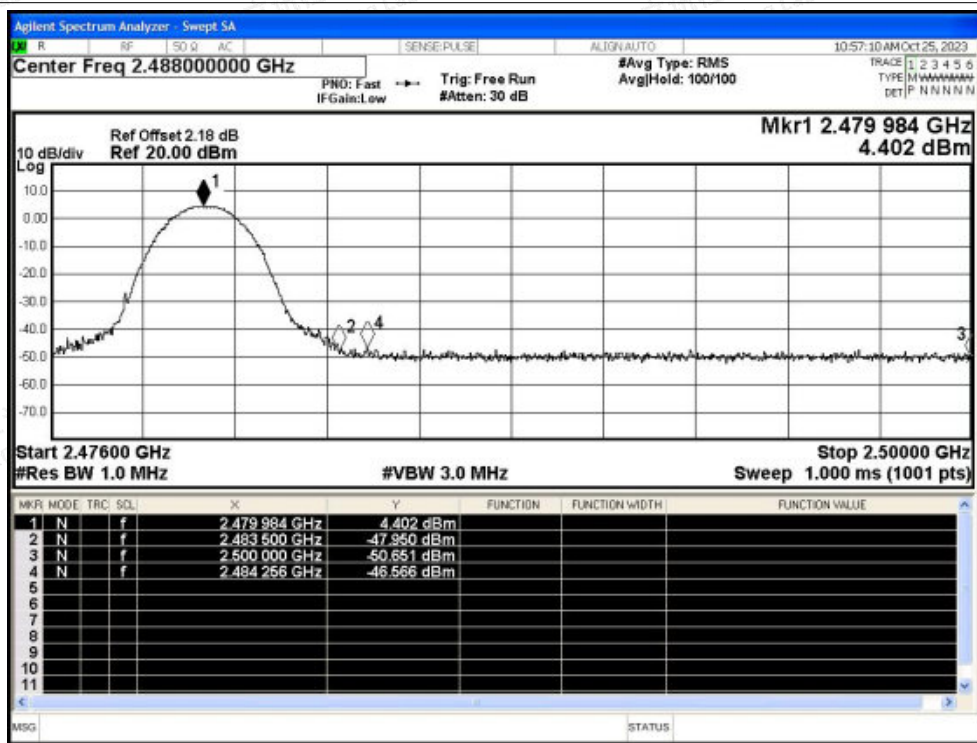


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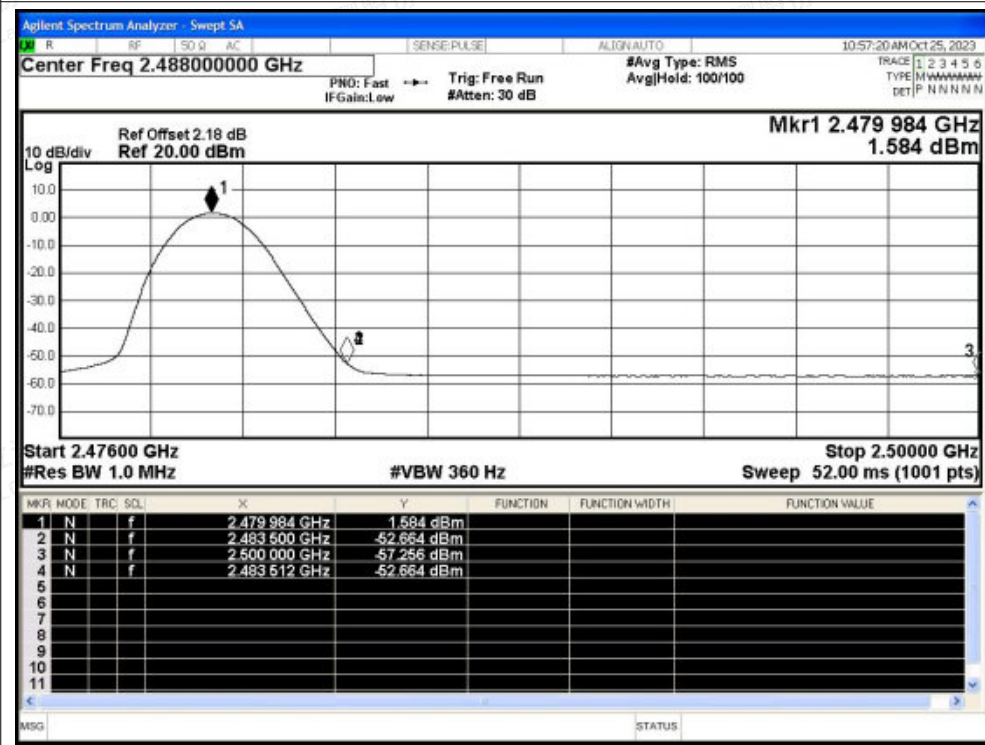




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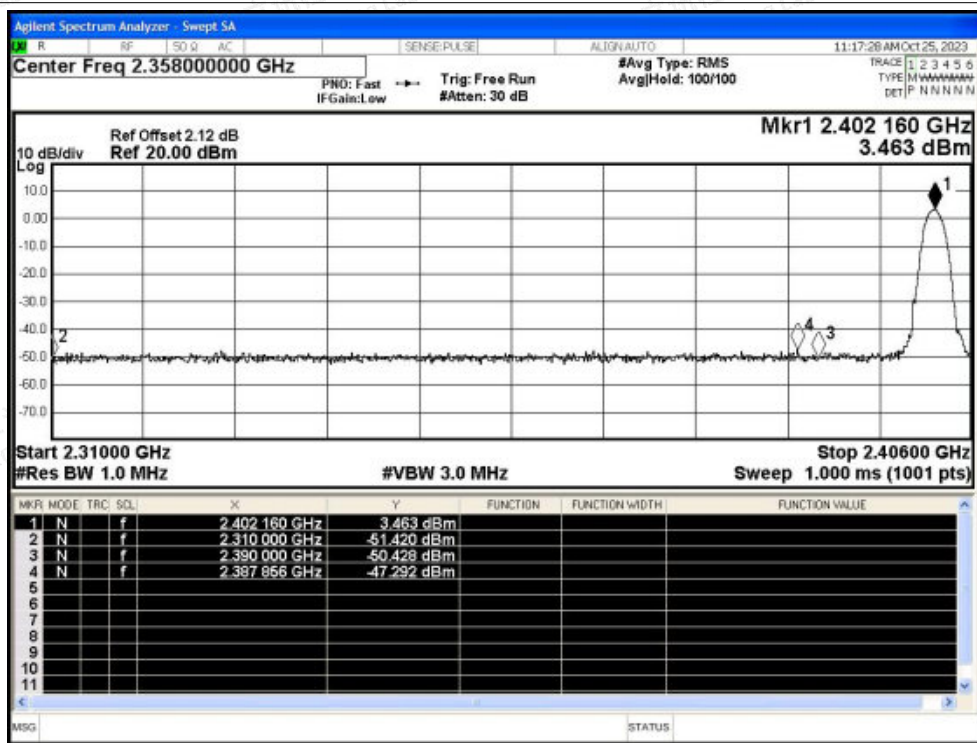


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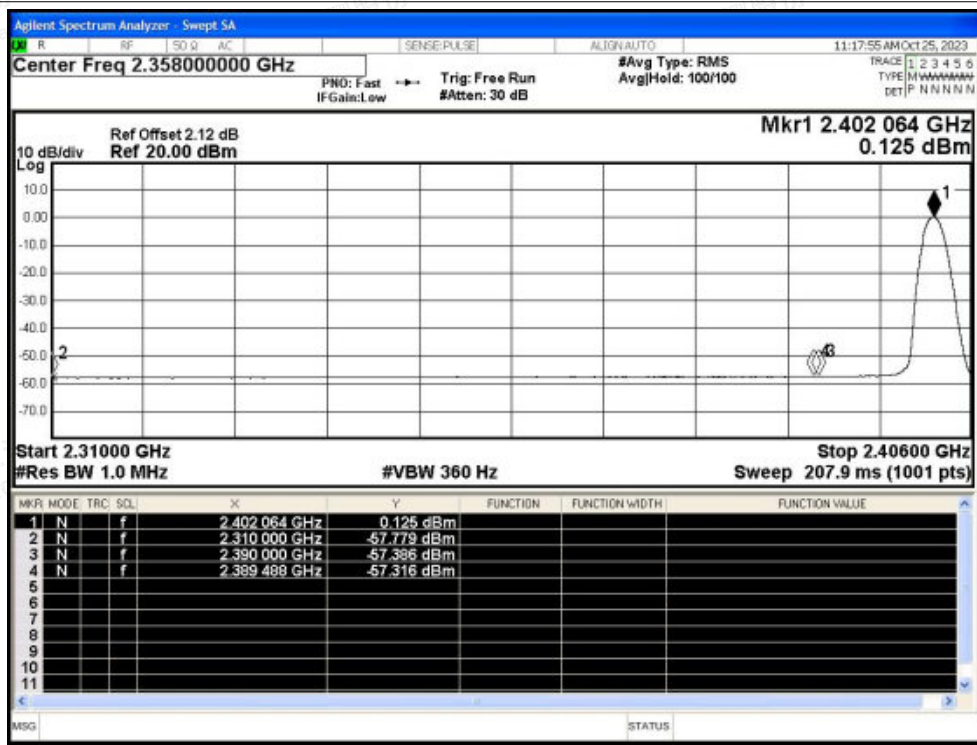




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

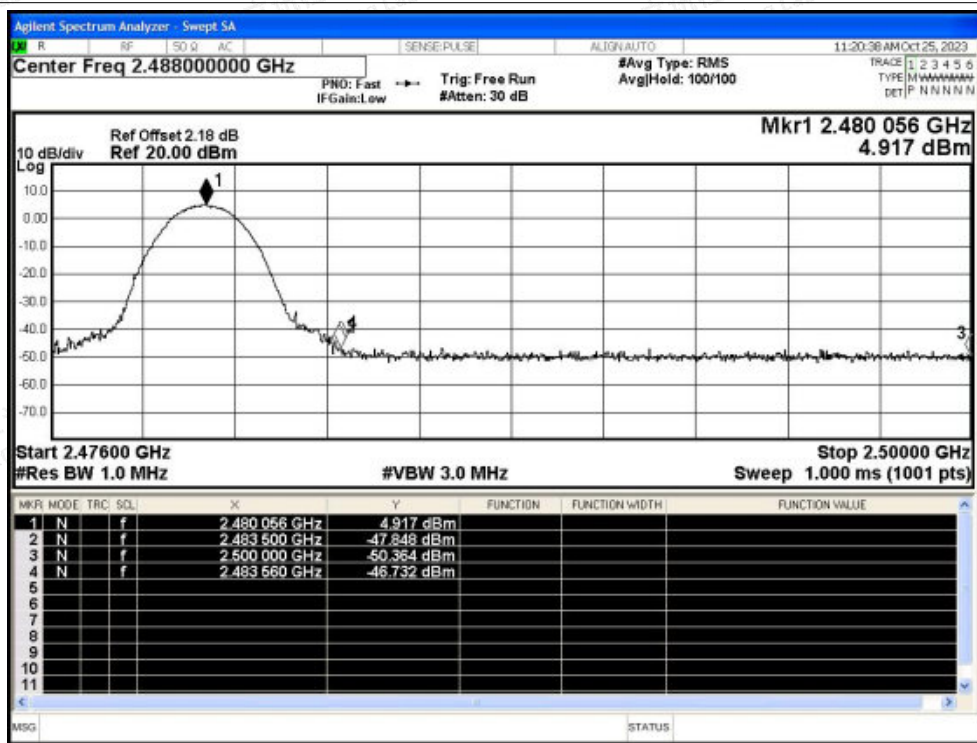


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

