



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: 2.0 Channel Soundbar

Test Model: ELF R2

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Jack cheng</i> Jack Cheng
Supervised by:	<i>Ling.zhu</i> 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	0.941	0	Pass
NVNT	1-DH5	2441	Ant1	0.94	0	Pass
NVNT	1-DH5	2480	Ant1	0.941	0	Pass



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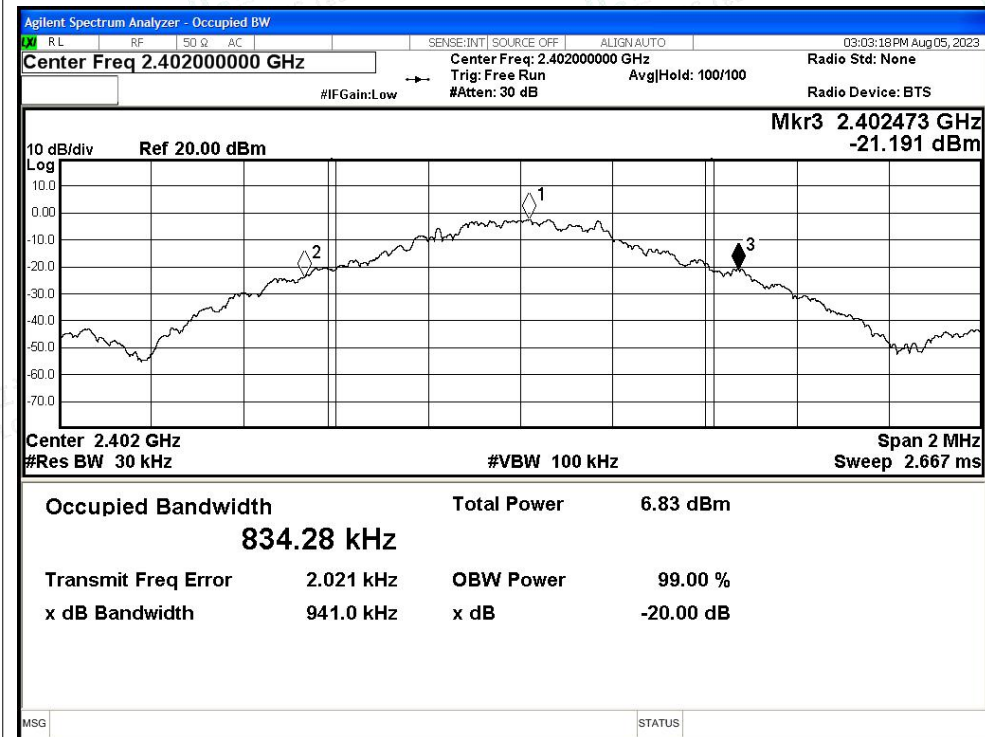
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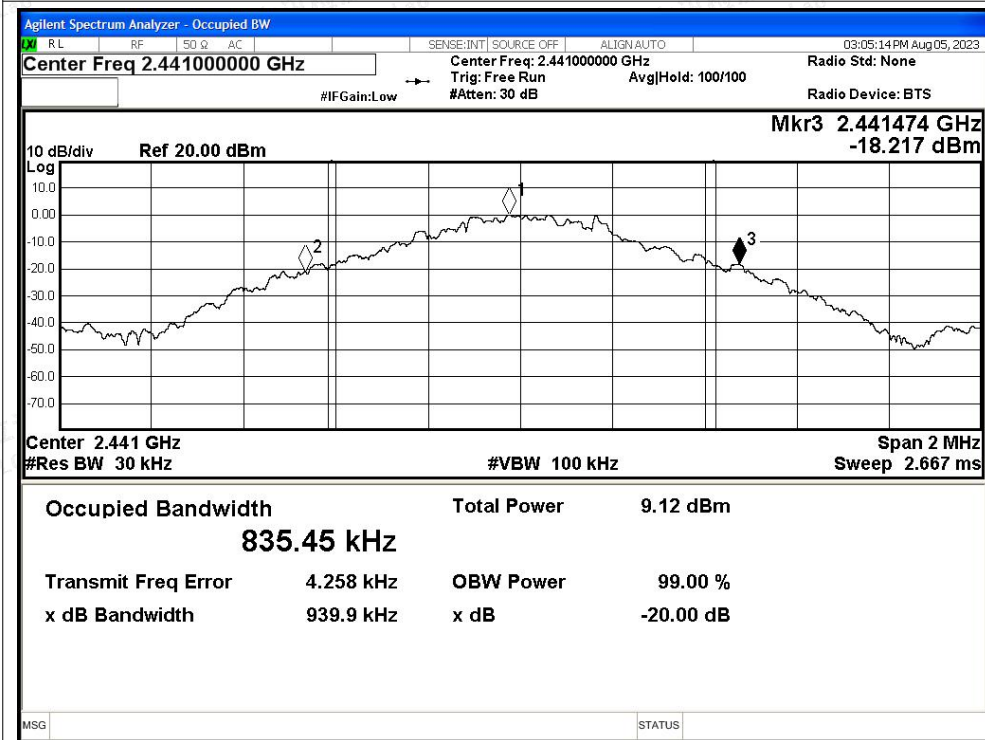


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

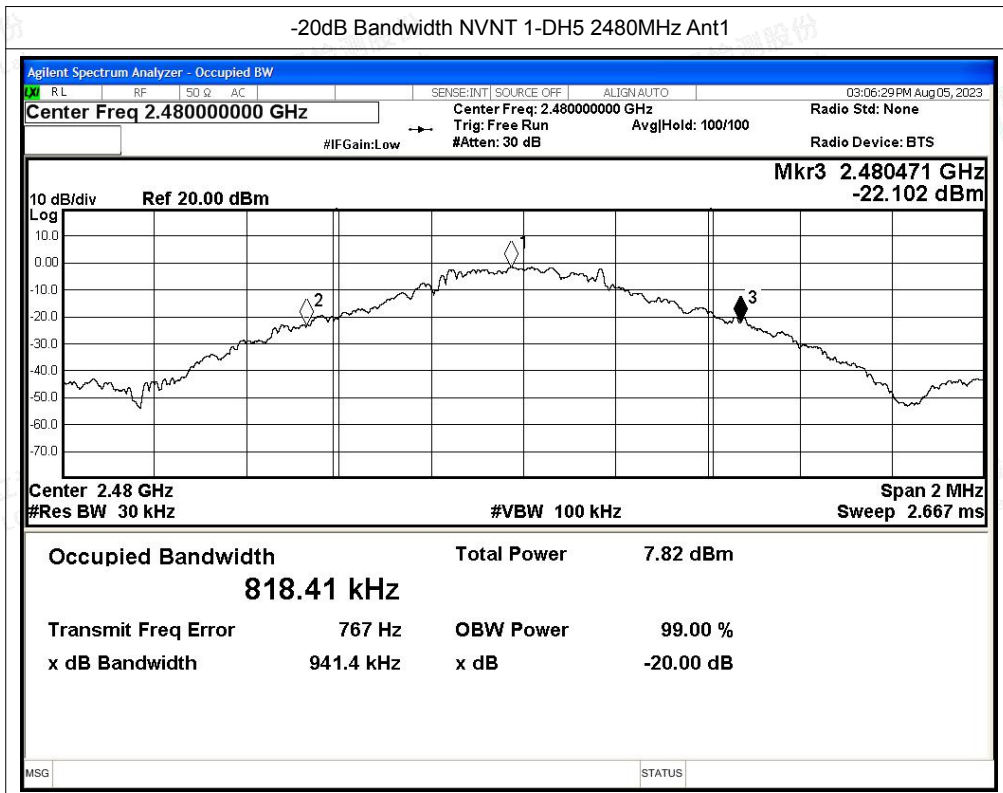


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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.36	21	Pass
NVNT	1-DH5	2441	Ant1	2.83	21	Pass
NVNT	1-DH5	2480	Ant1	1.14	21	Pass



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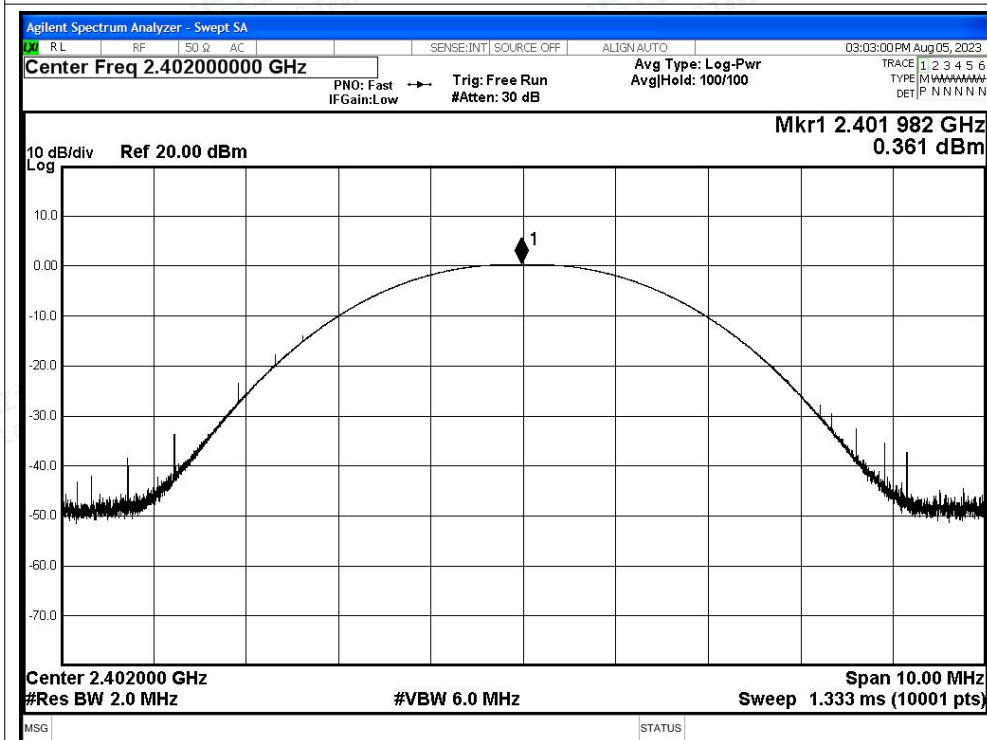
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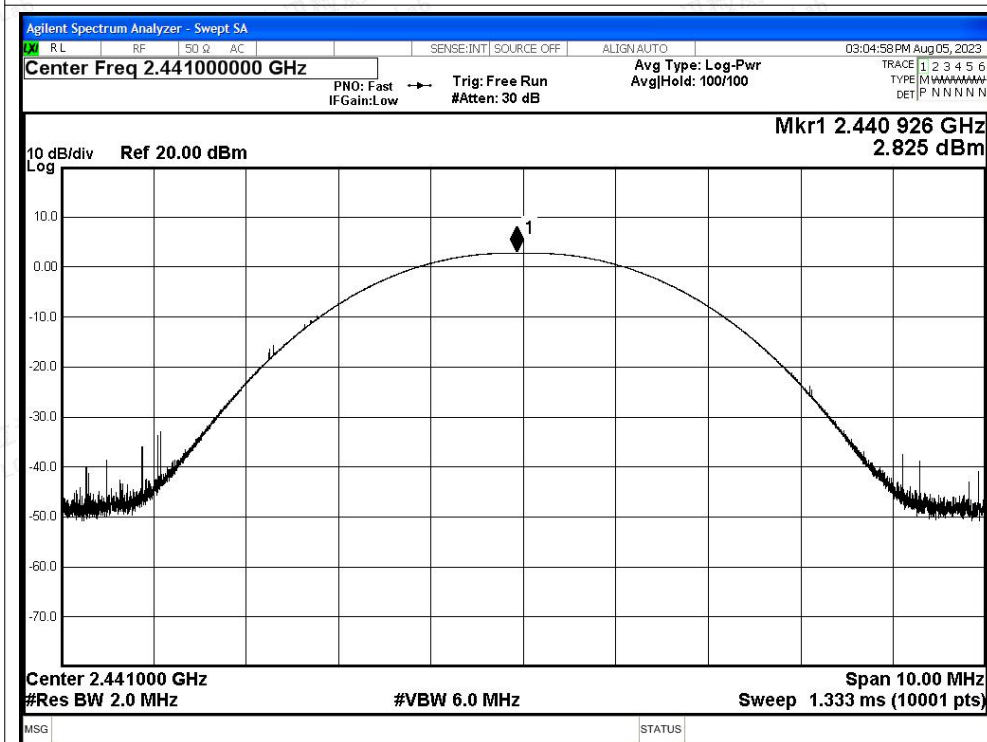


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

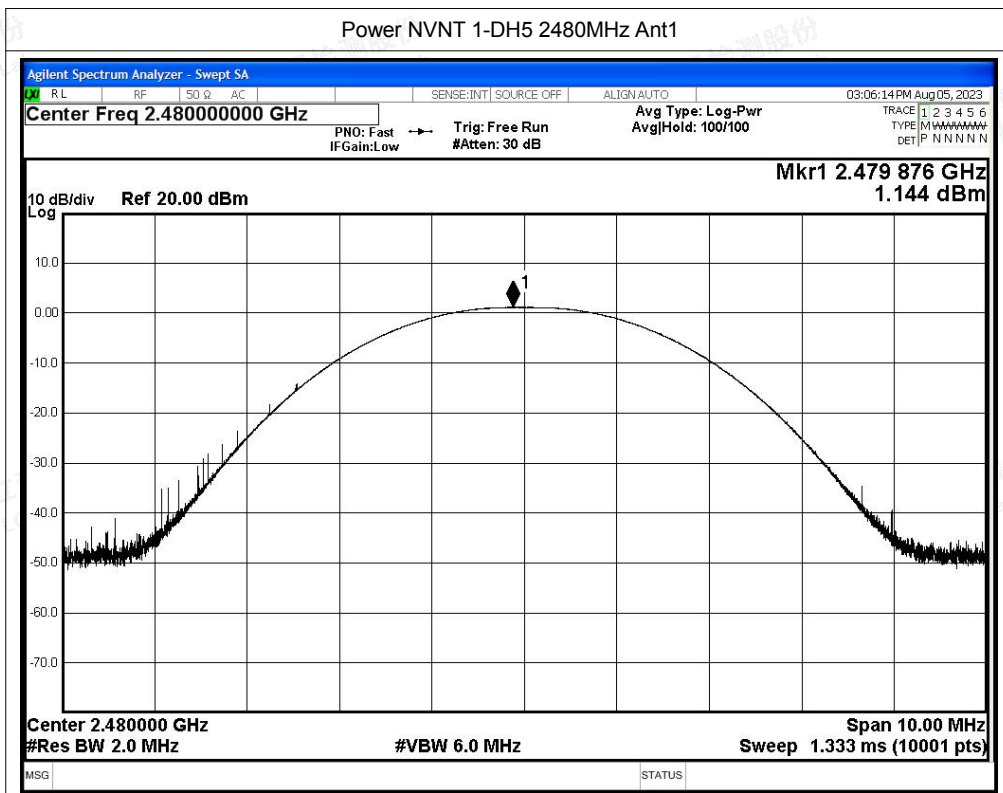


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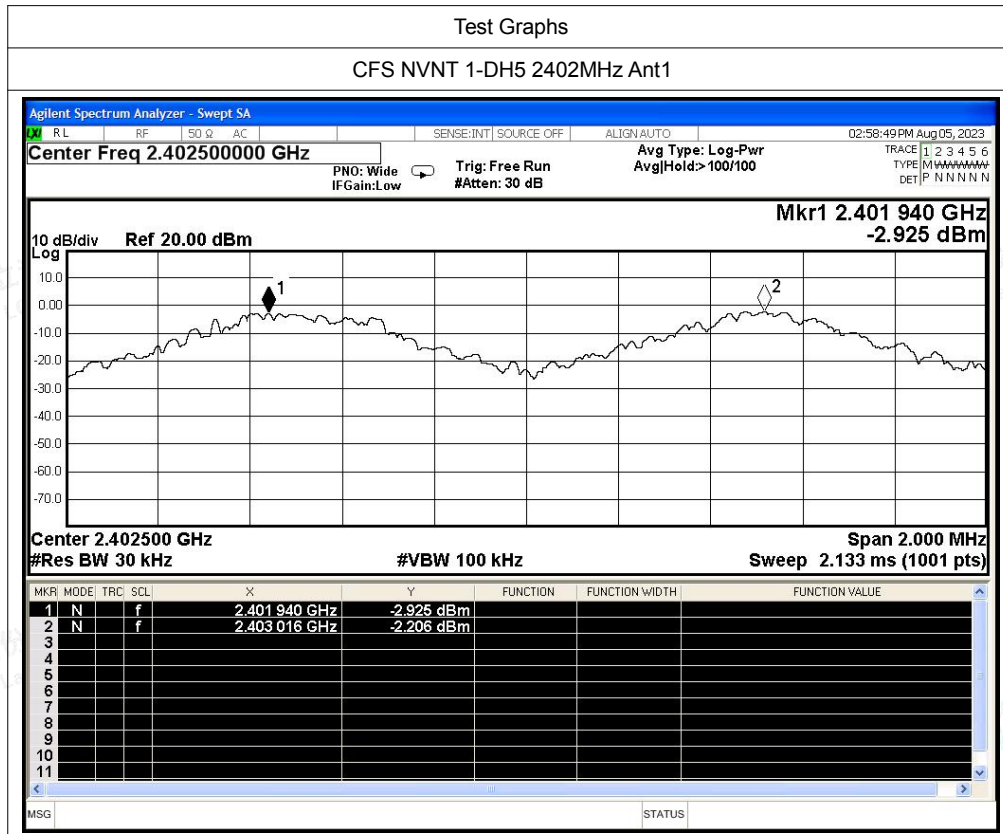
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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.94	2403.016	1.076	0.627	Pass



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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	2.889	303.345	105	31600	400	Pass



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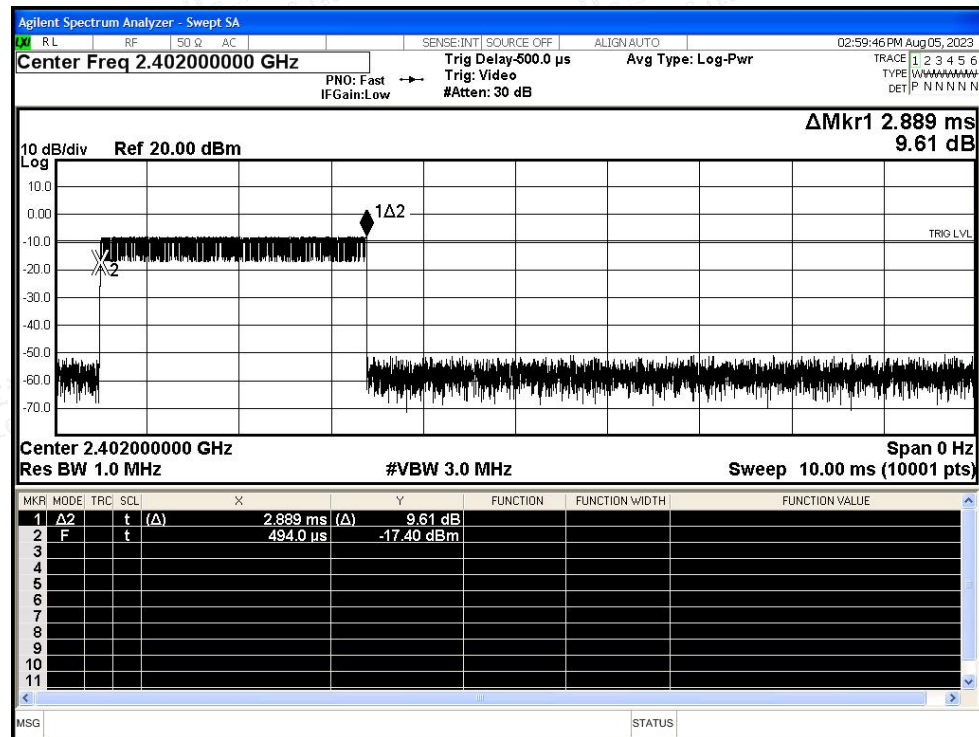
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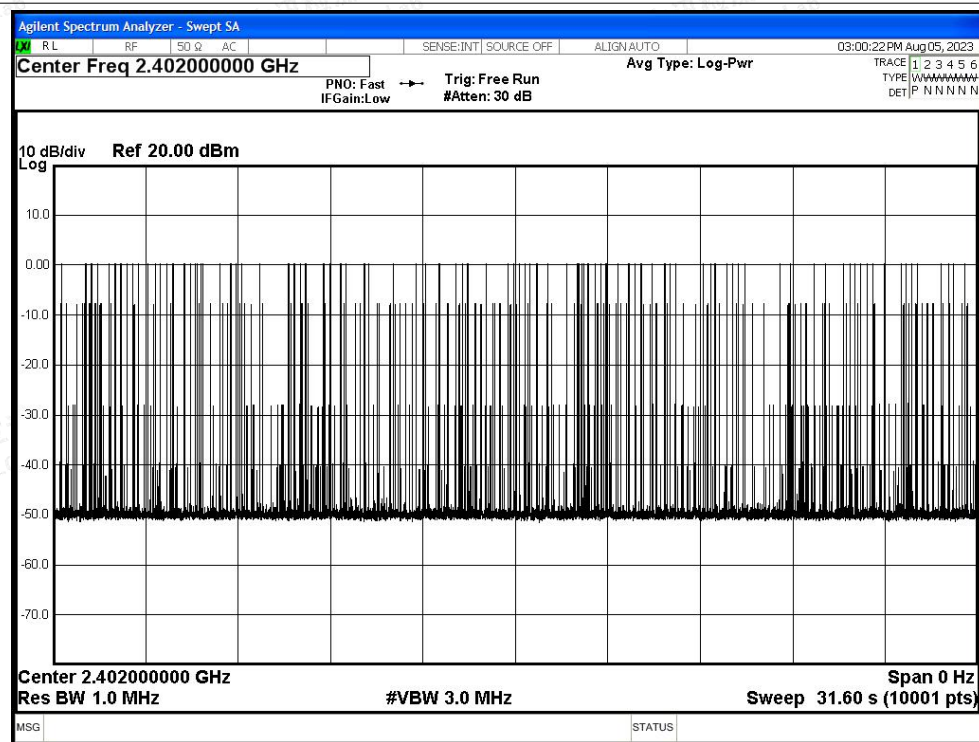


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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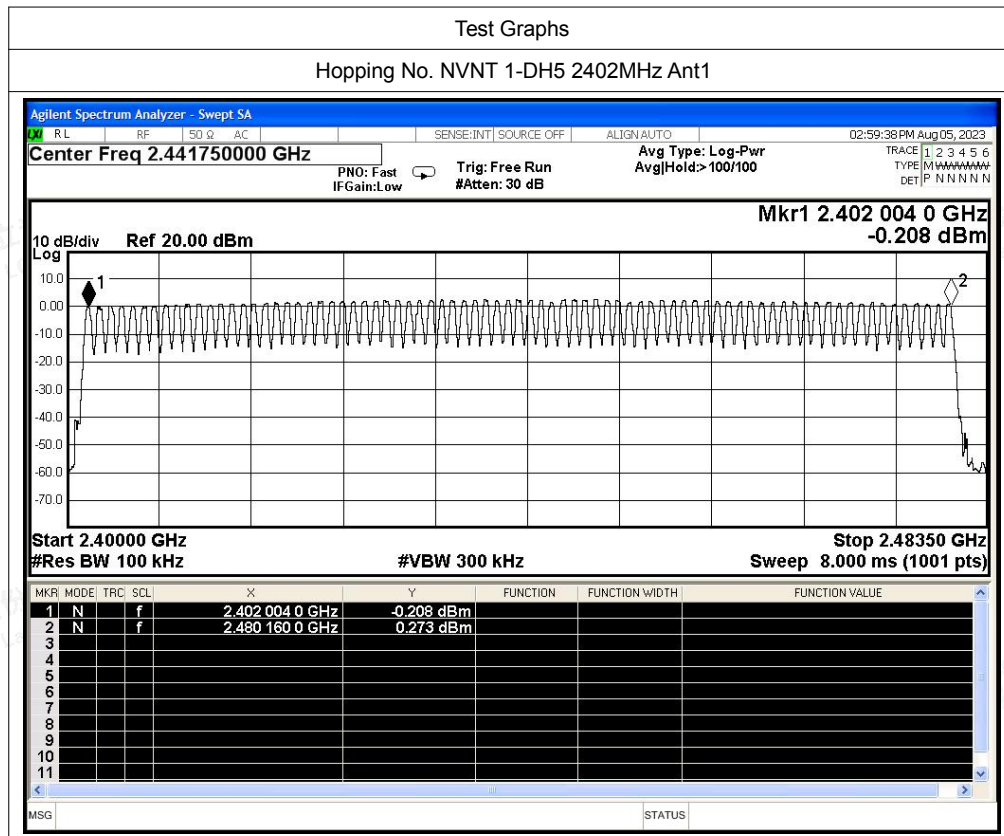
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A.5 Number of Hopping Channel

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



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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	-53.2	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.63	-20	Pass



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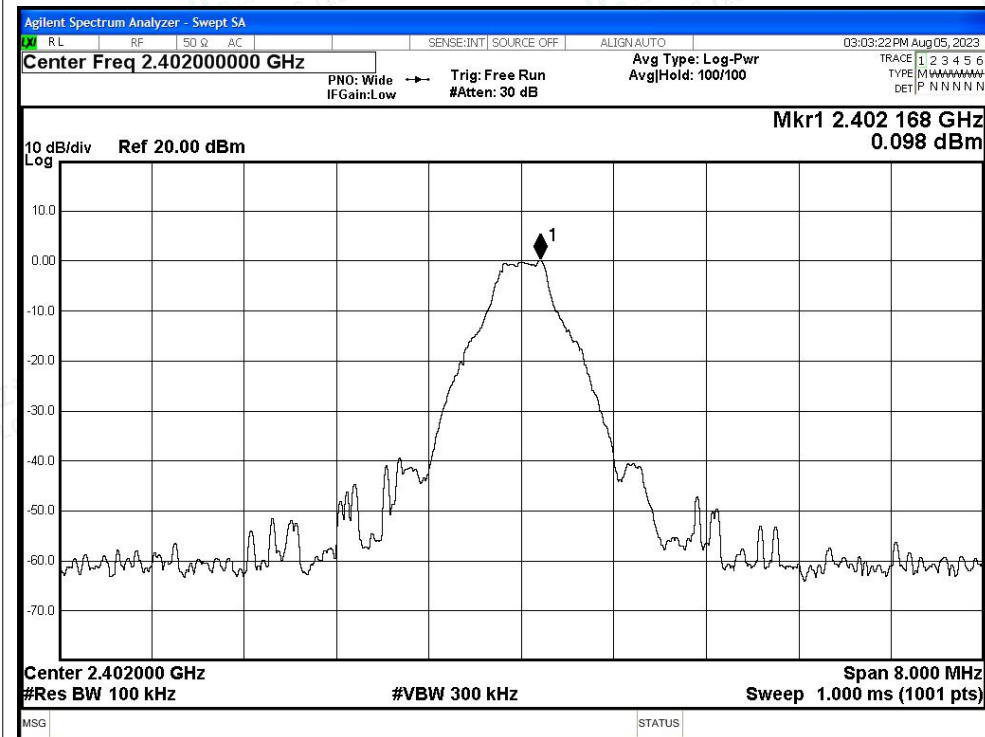
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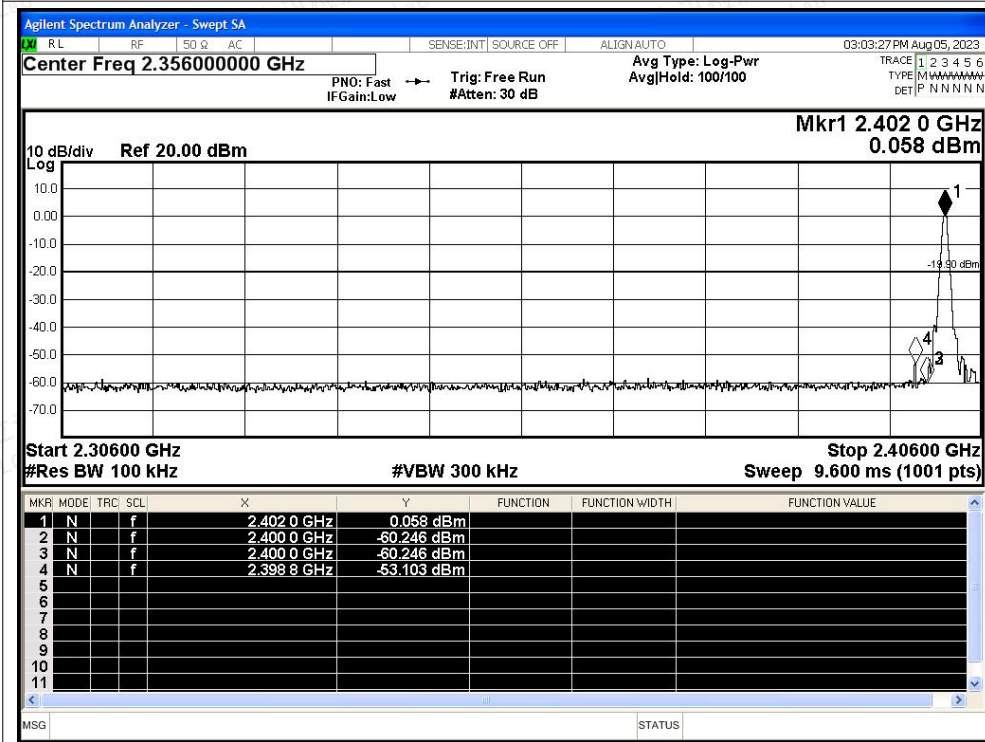


Test Graphs

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



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

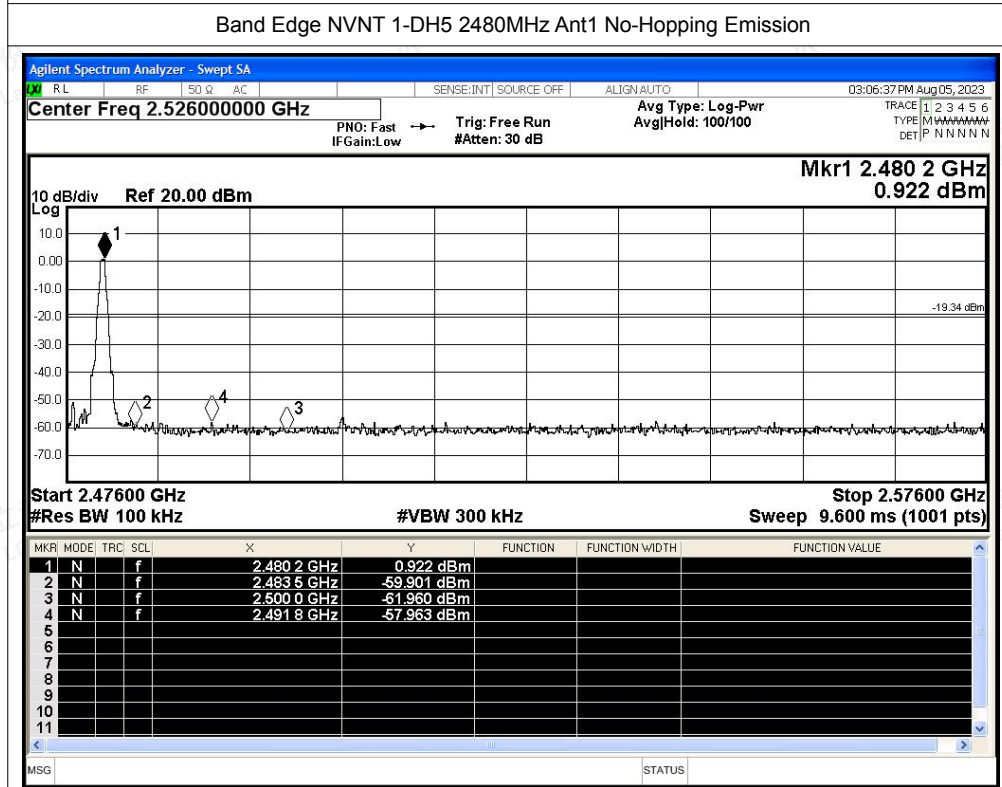
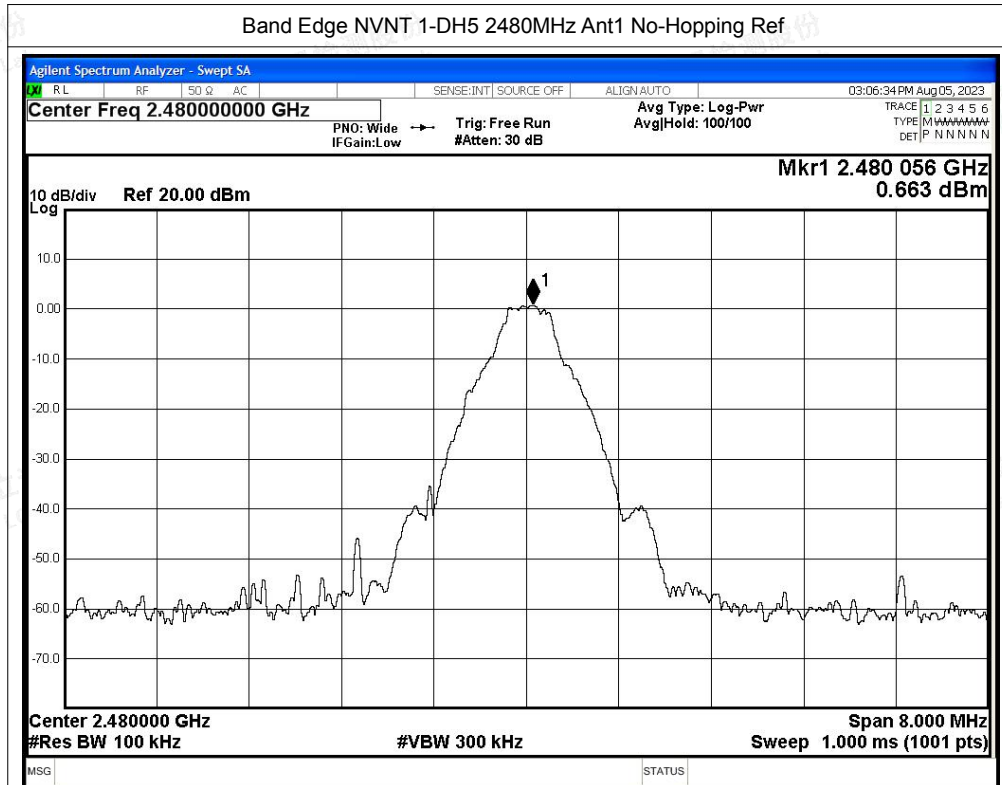


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(Hopping)

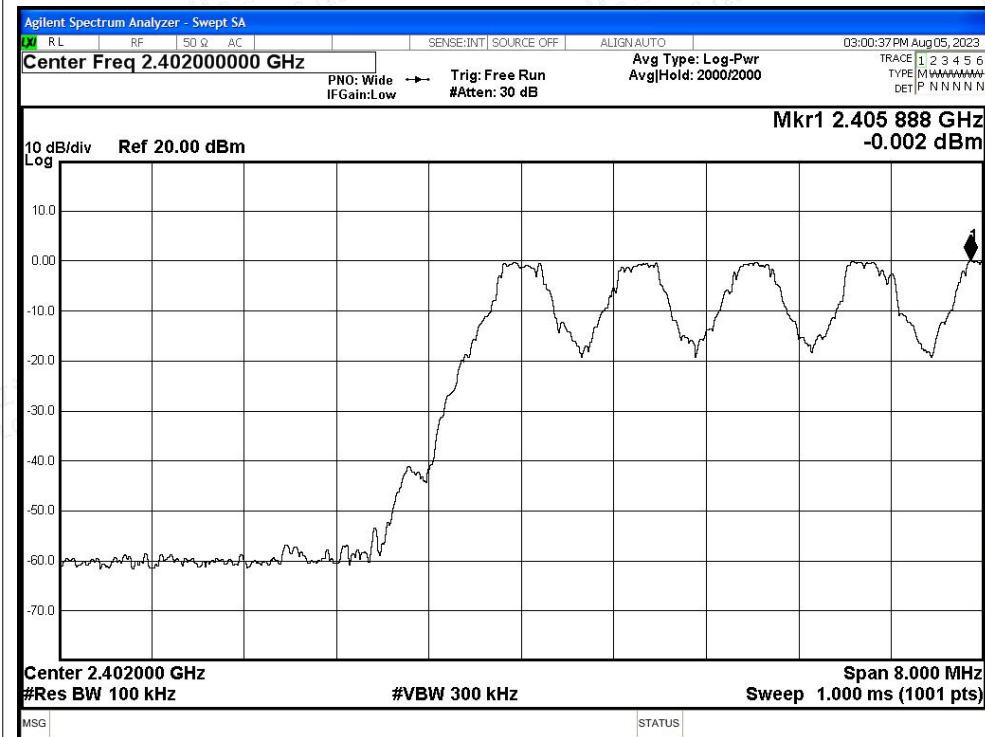
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-57.41	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.37	-20	Pass



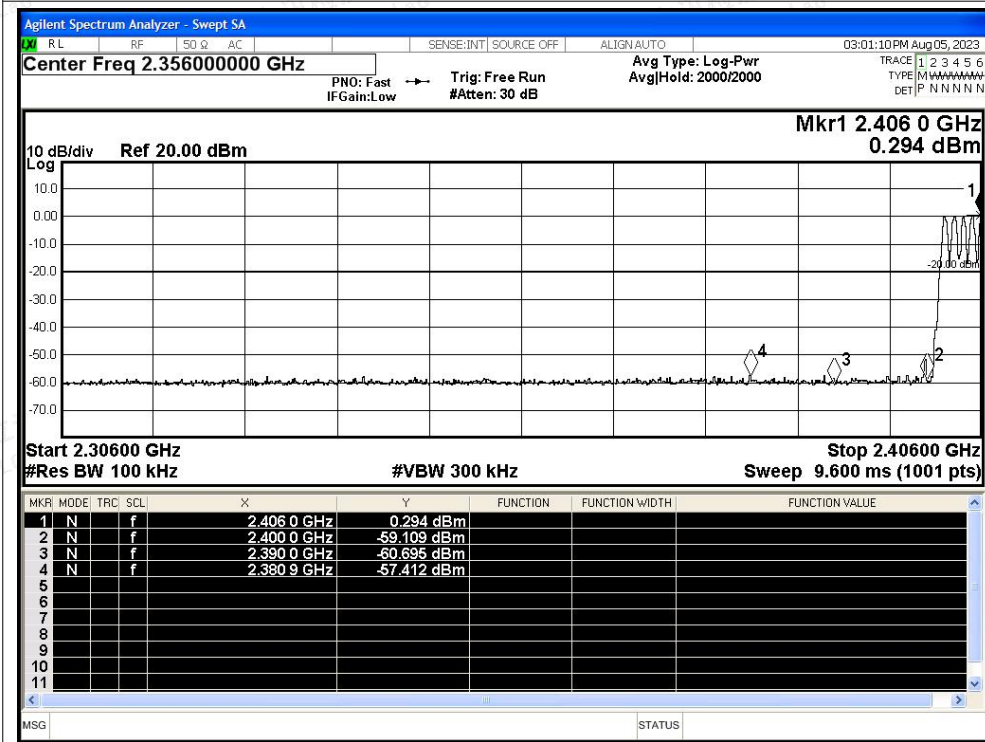


Test Graphs

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



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

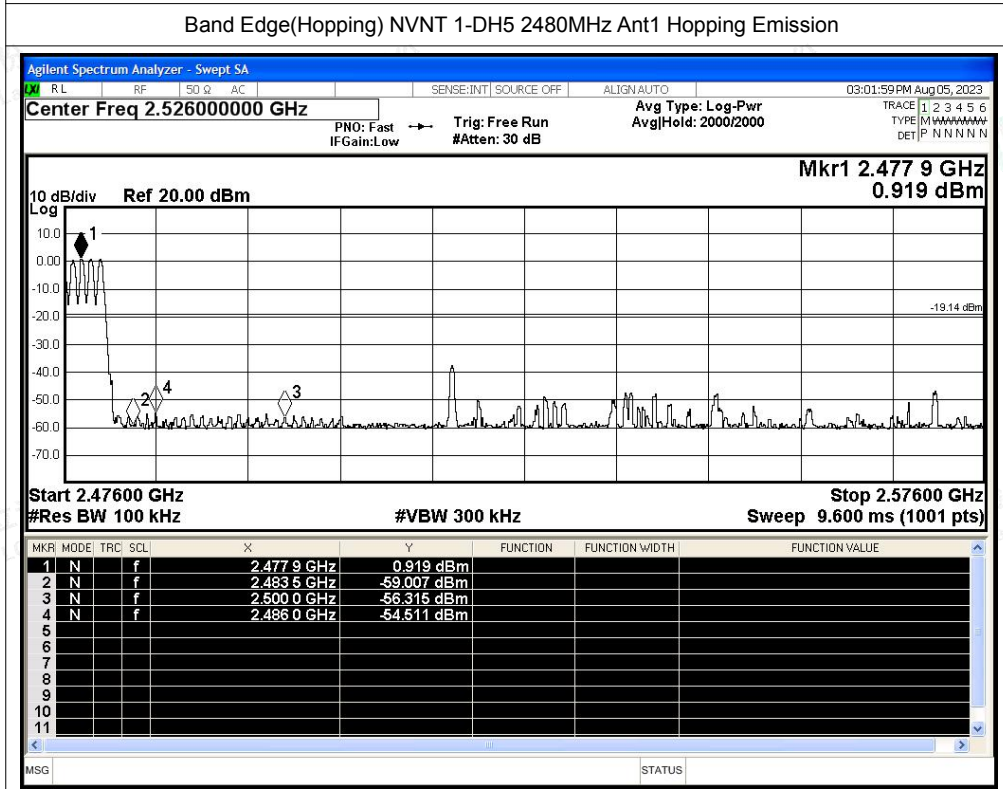
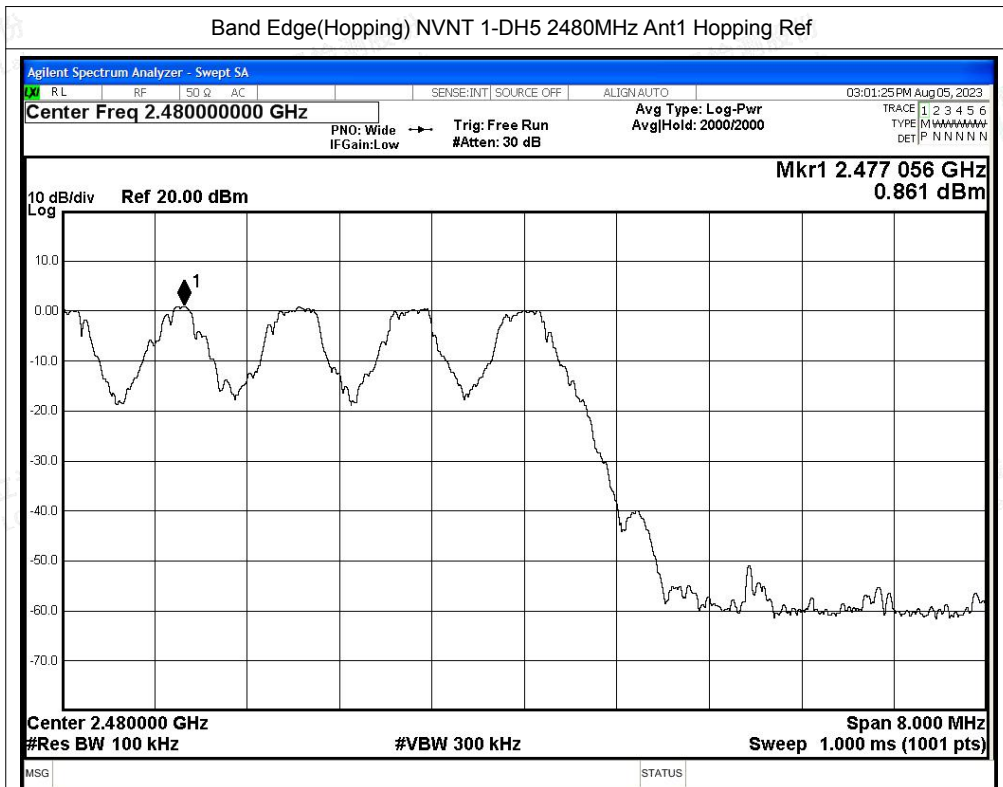


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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-36.38	-20	Pass
NVNT	1-DH5	2441	Ant1	-38.33	-20	Pass
NVNT	1-DH5	2480	Ant1	-37.8	-20	Pass



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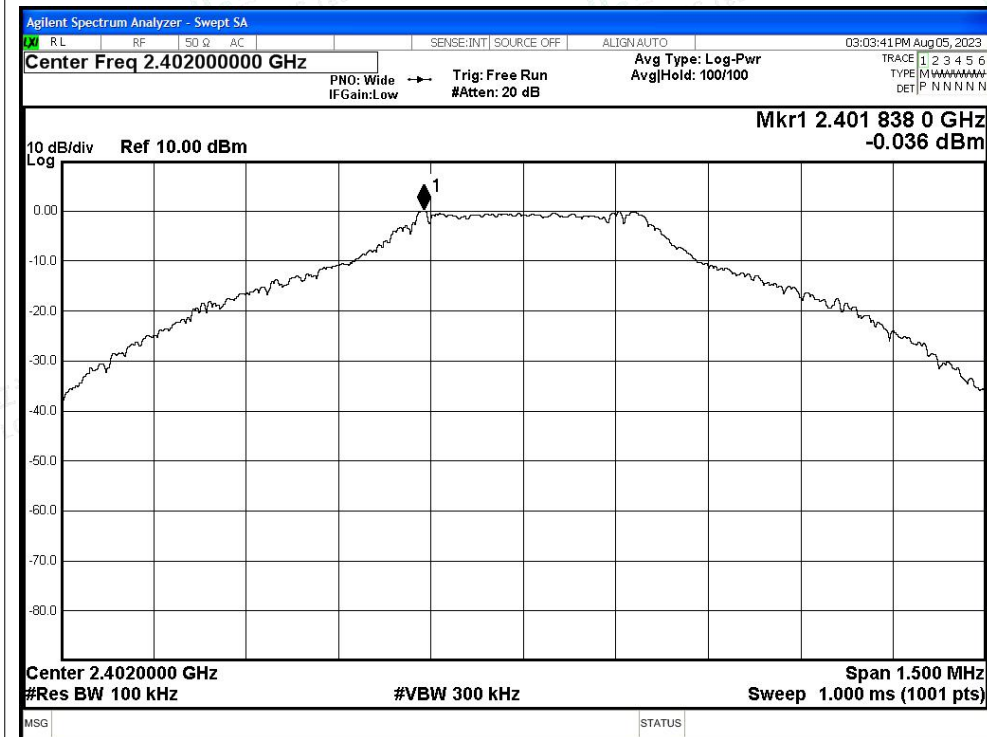
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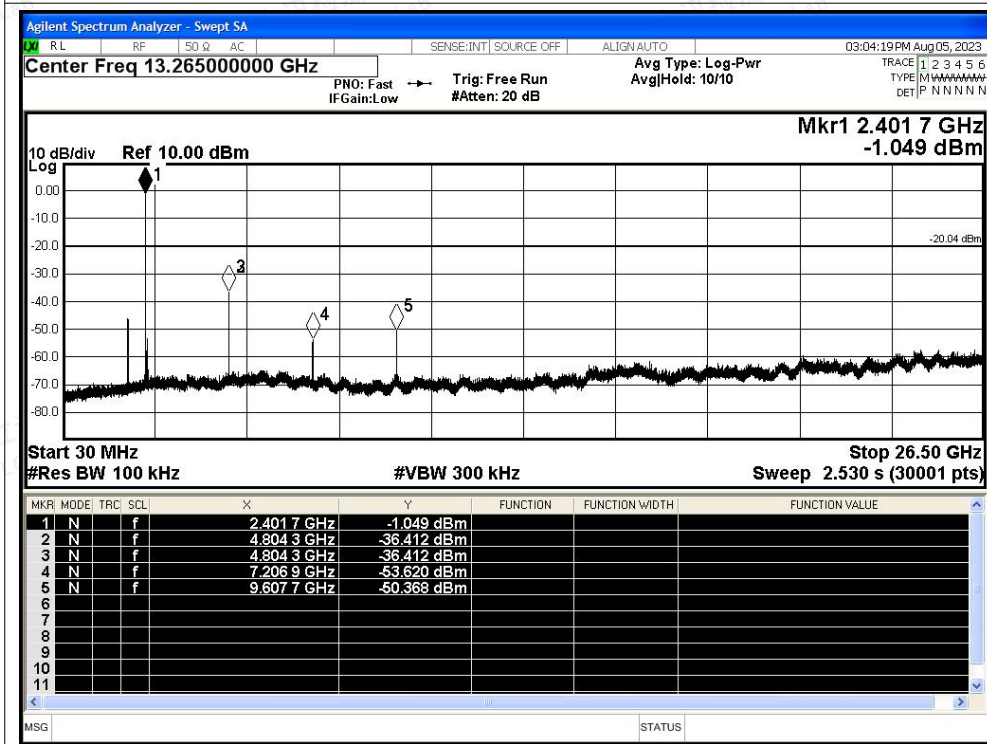


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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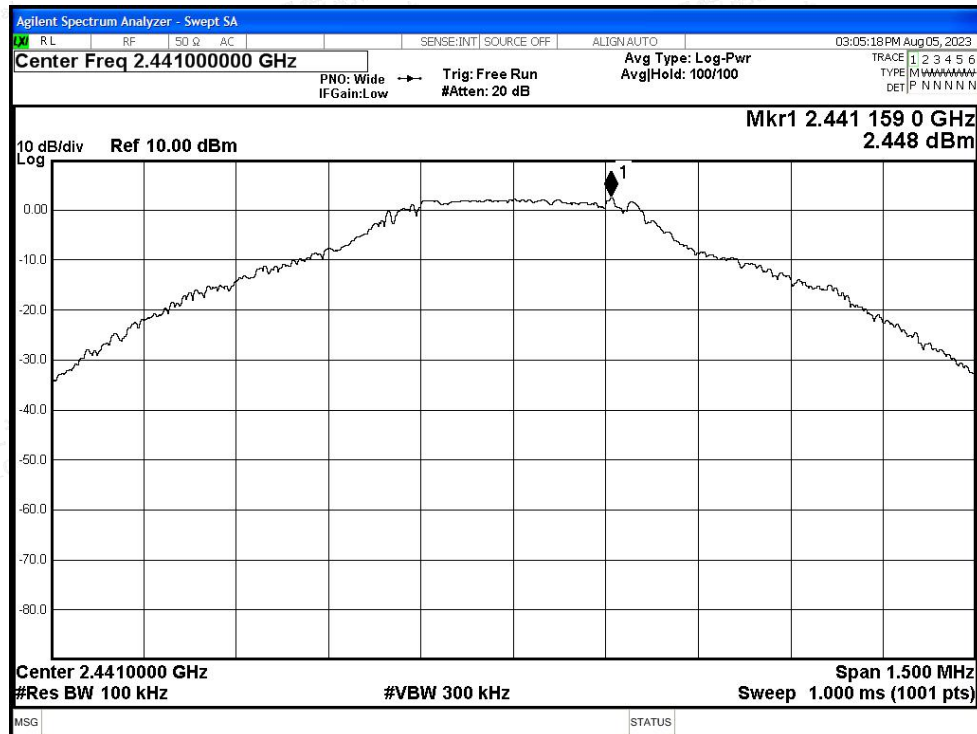
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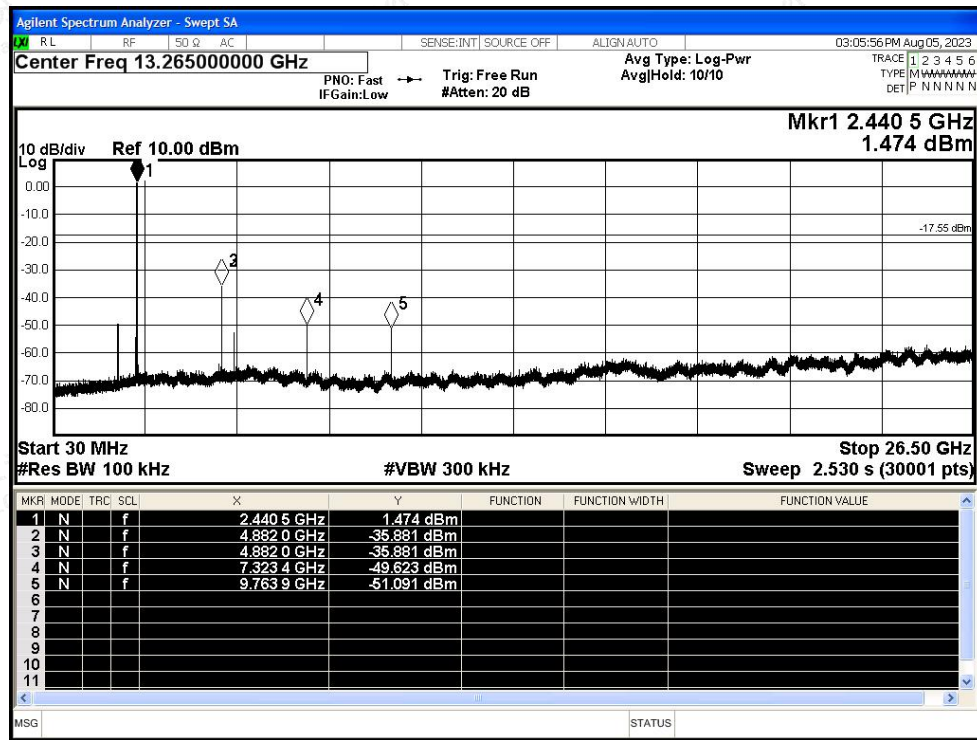
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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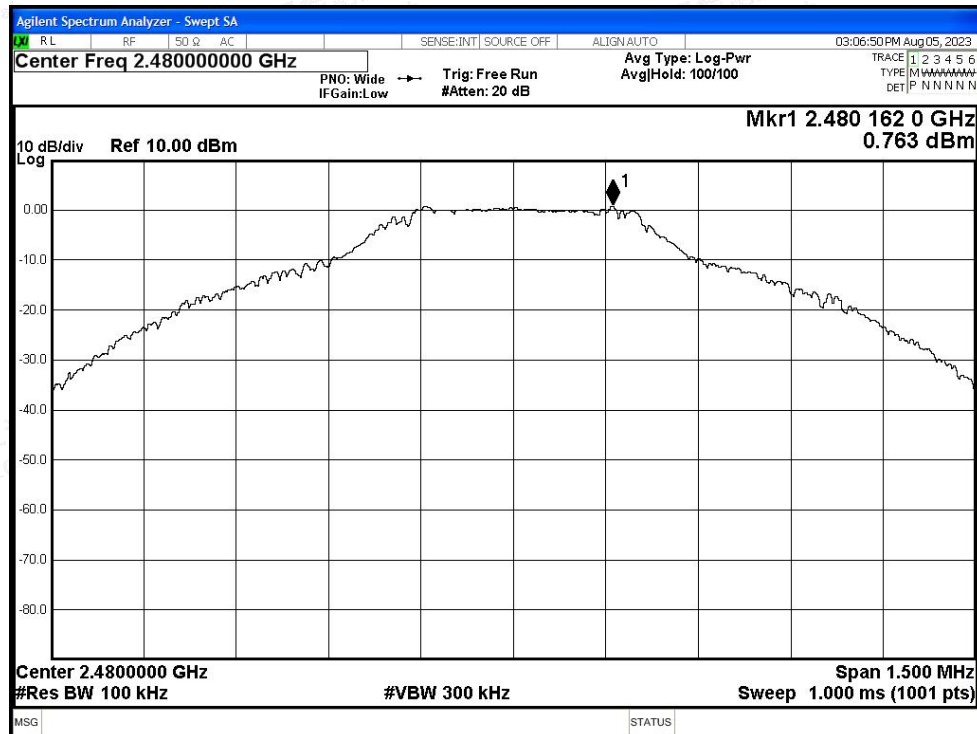
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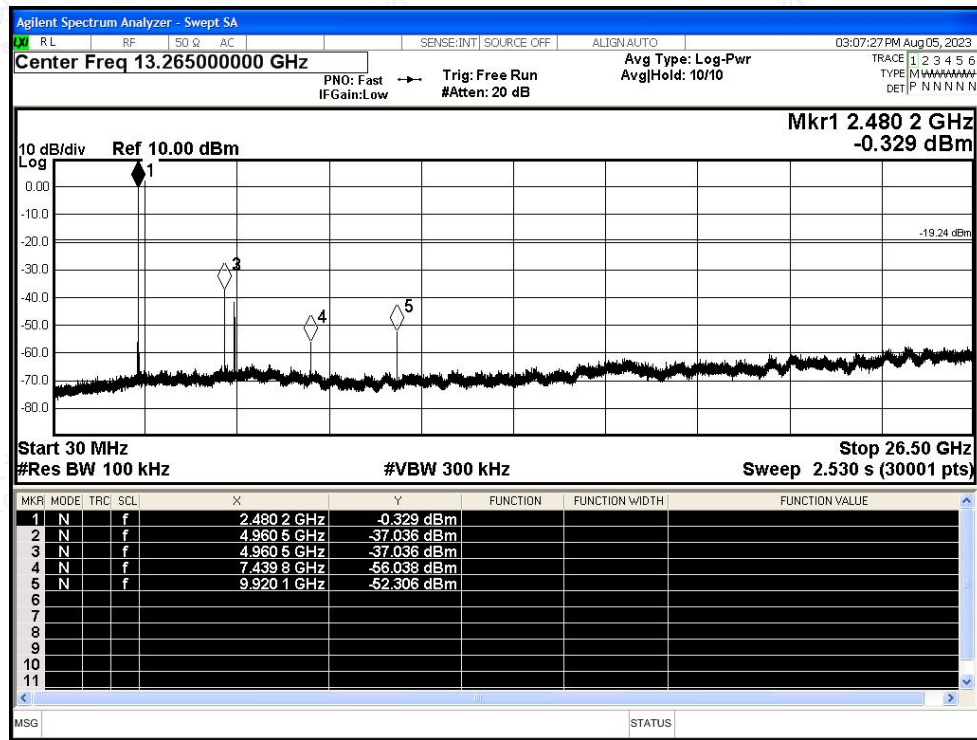
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



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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	-51.4	2	45.86	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-62.02	2	35.24	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2336.304	-49.14	2	48.12	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2375.952	-61.04	2	36.22	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-52.6	2	44.66	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-61.63	2	35.63	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.92	2	48.34	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.91	2	37.35	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2490.304	-48.54	2	48.72	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.584	-59.85	2	37.41	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.7	2	45.56	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-61.5	2	35.76	Average	54	Pass



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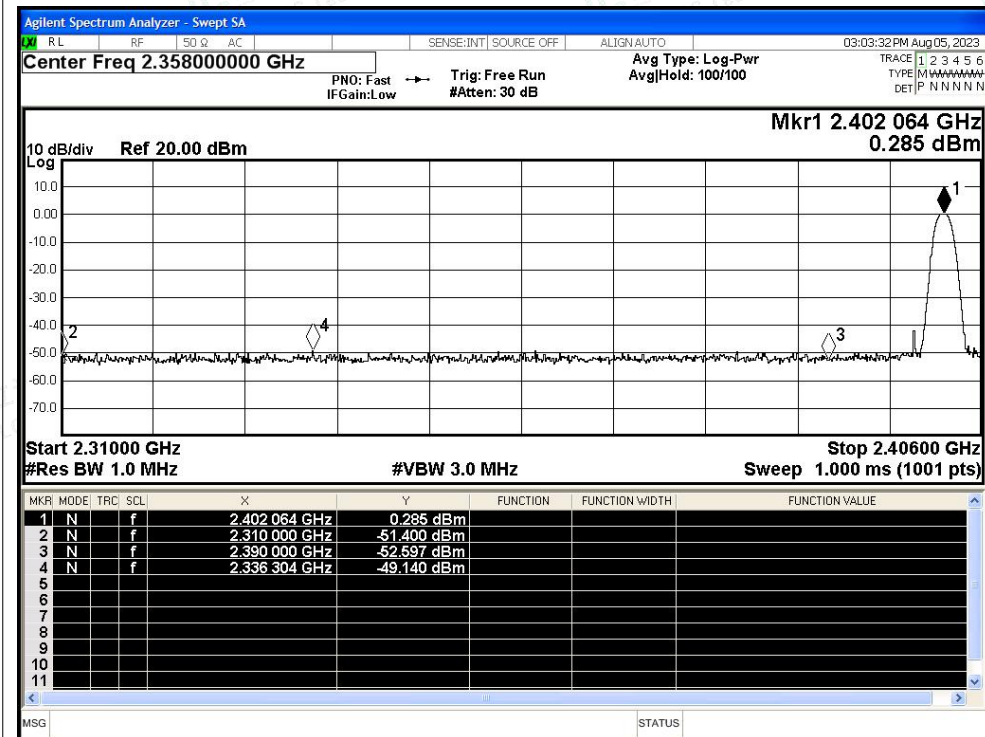
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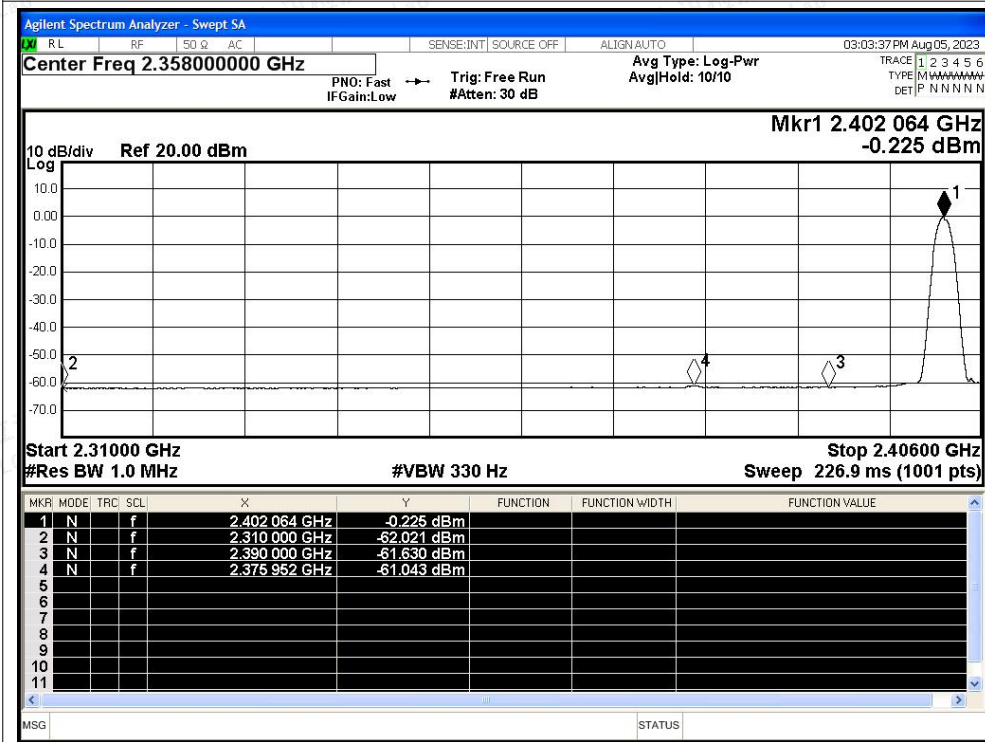


Test Graphs

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



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

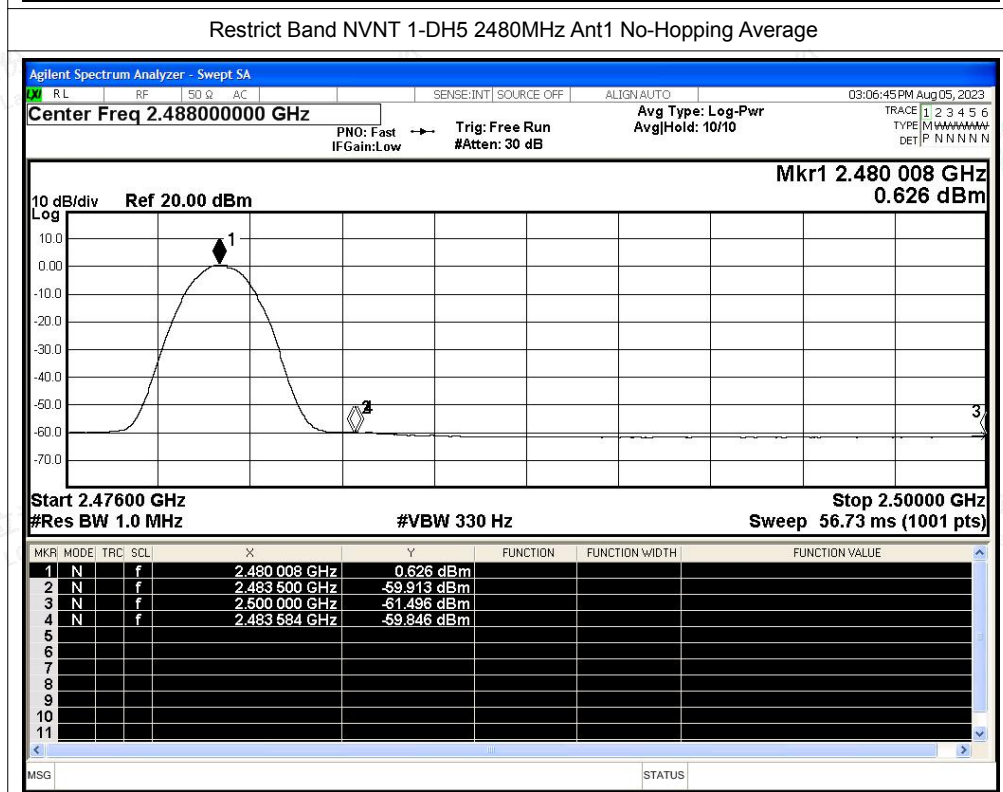
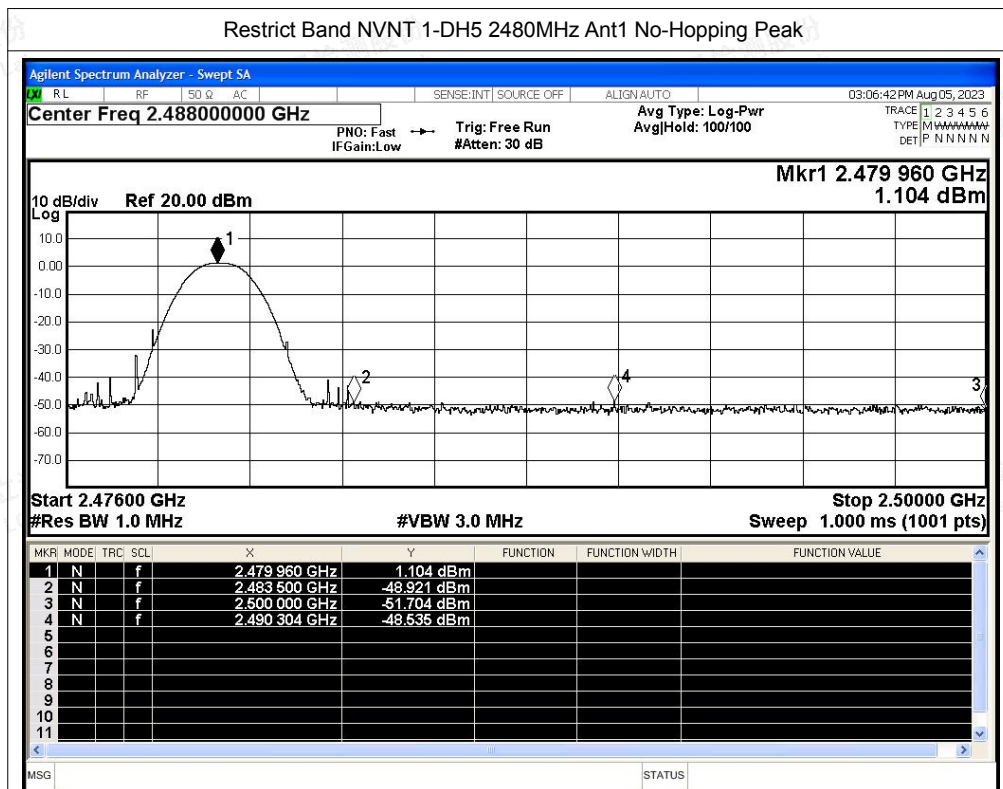


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