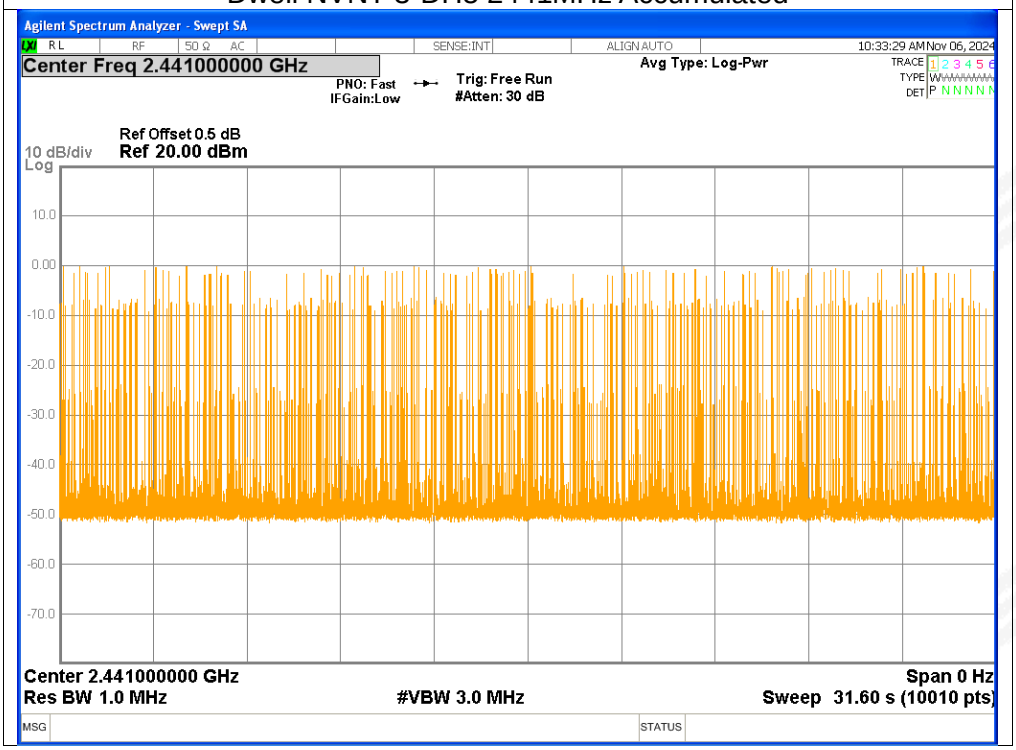
Dwell NVNT 3-DH5 2441MHz One Burst

Dwell NVNT 3-DH5 2441MHz Accumulated

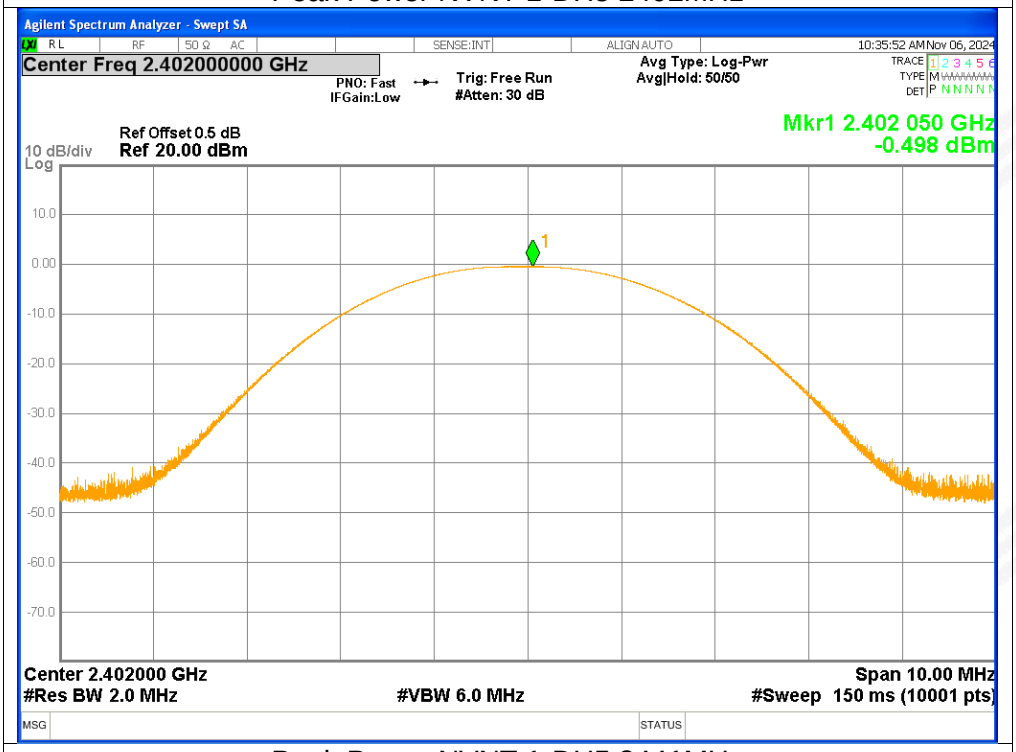


2. Maximum Peak Conducted Output Power

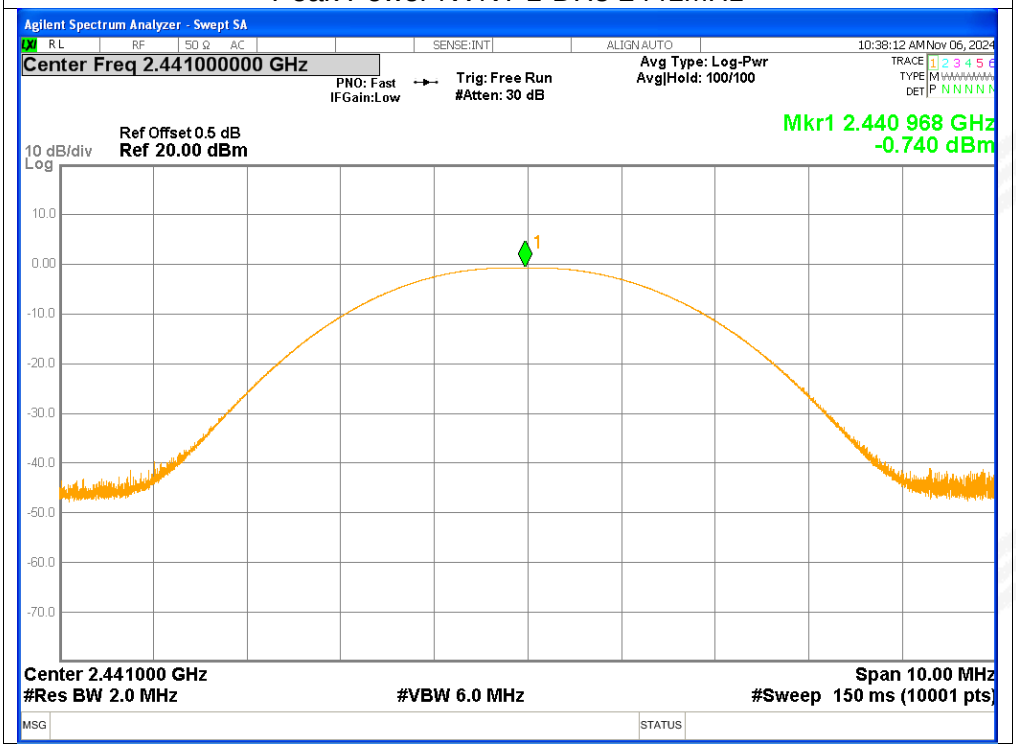
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	-0.5	<=20.97	Pass
NVNT	1-DH5	2441	-0.74	<=20.97	Pass
NVNT	1-DH5	2480	-0.13	<=20.97	Pass
NVNT	2-DH5	2402	-0.39	<=20.97	Pass
NVNT	2-DH5	2441	-0.71	<=20.97	Pass
NVNT	2-DH5	2480	-0.08	<=20.97	Pass
NVNT	3-DH5	2402	-0.28	<=20.97	Pass
NVNT	3-DH5	2441	-0.52	<=20.97	Pass
NVNT	3-DH5	2480	0.12	<=20.97	Pass

Test Graphs

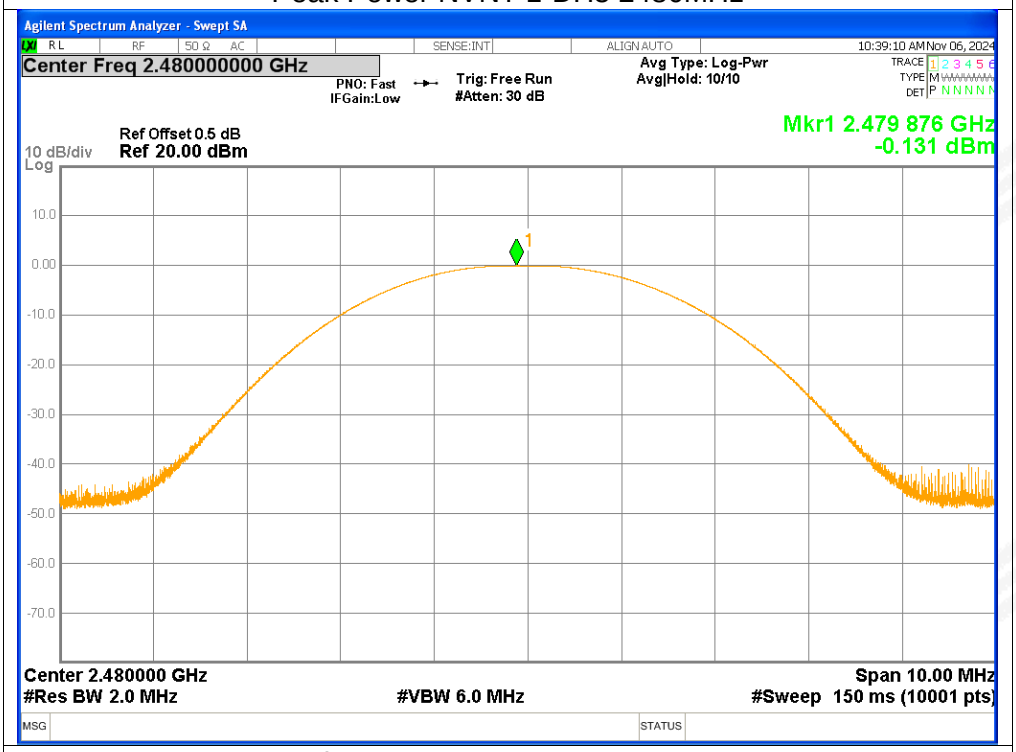
Peak Power NVNT 1-DH5 2402MHz



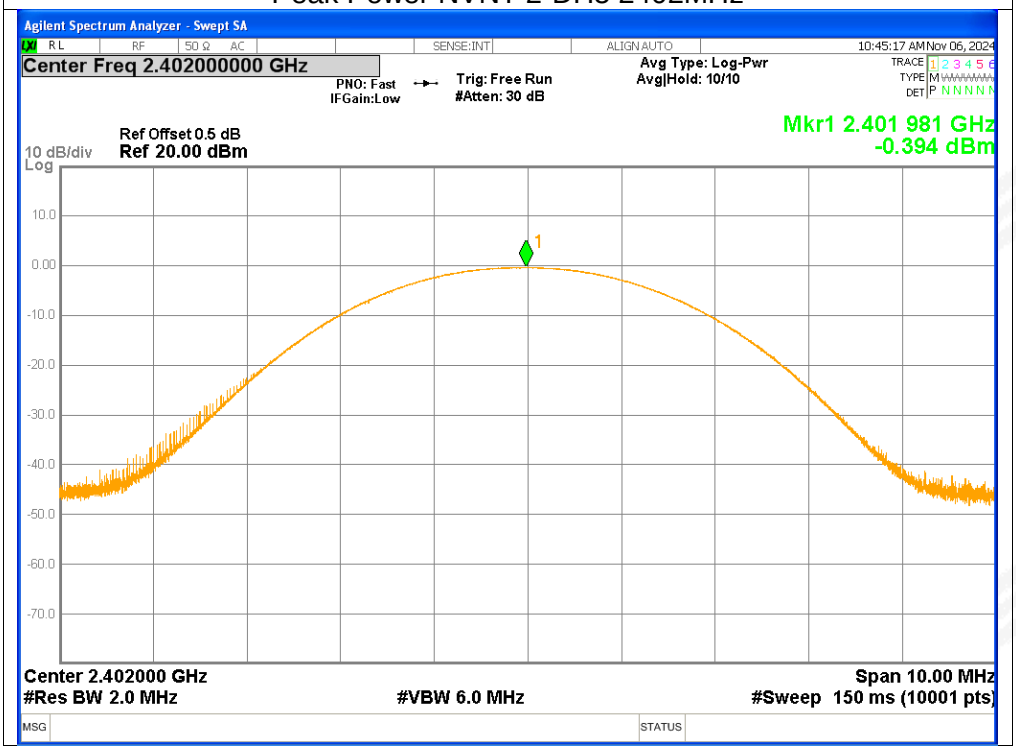
Peak Power NVNT 1-DH5 2441MHz



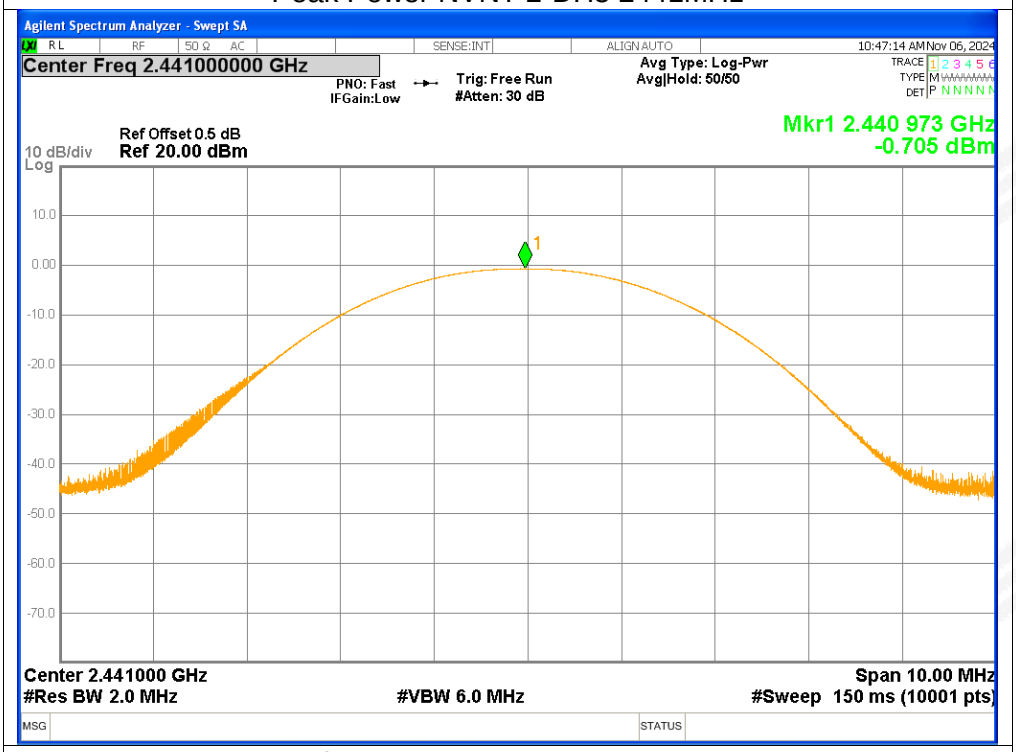
Peak Power NVNT 1-DH5 2480MHz



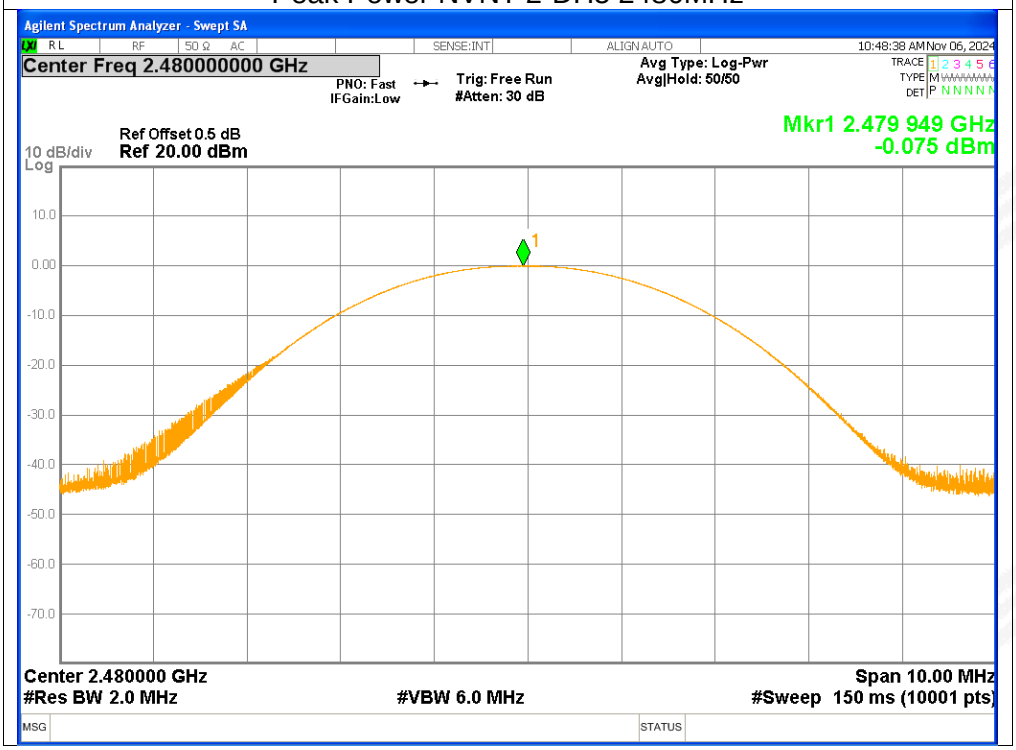
Peak Power NVNT 2-DH5 2402MHz



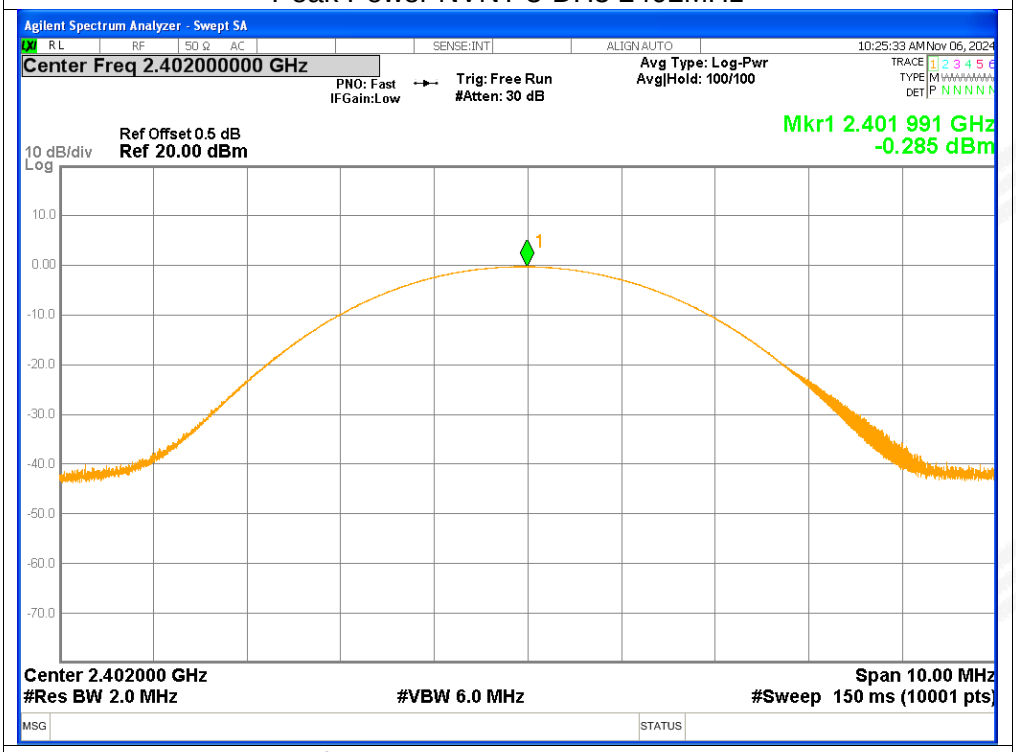
Peak Power NVNT 2-DH5 2441MHz



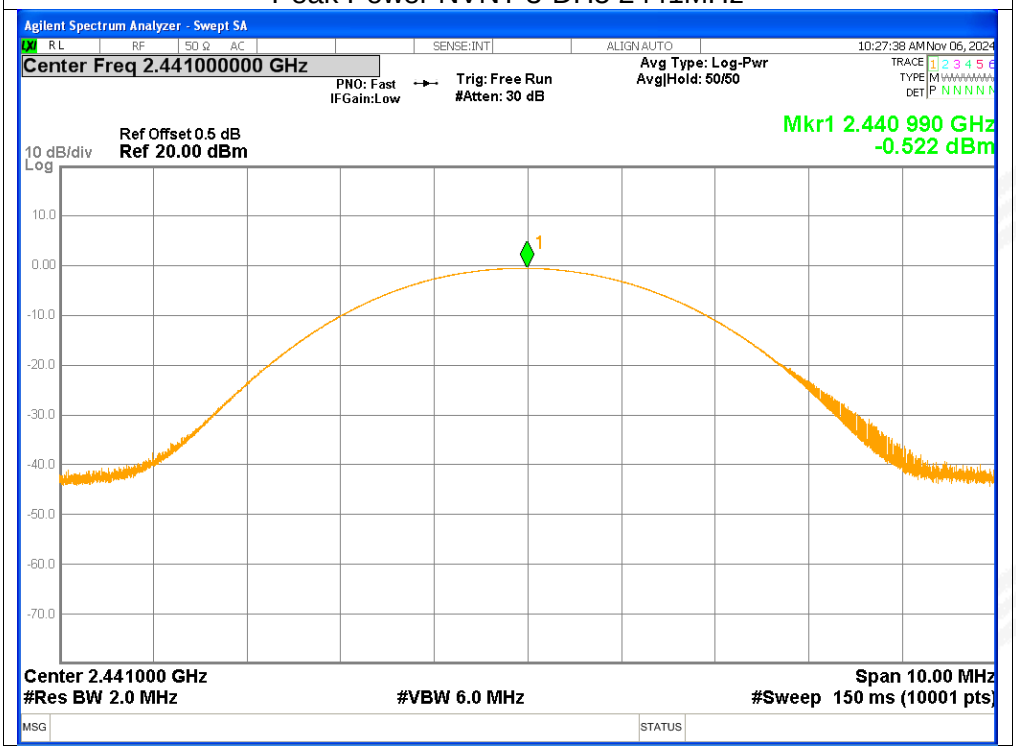
Peak Power NVNT 2-DH5 2480MHz



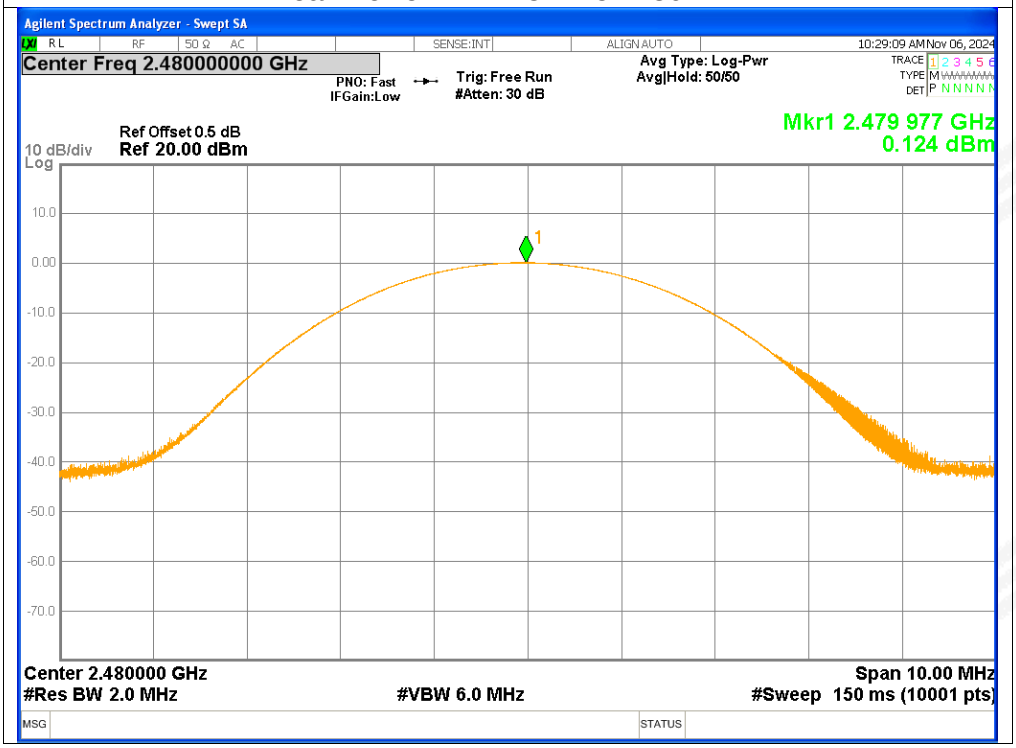
Peak Power NVNT 3-DH5 2402MHz



Peak Power NVNT 3-DH5 2441MHz



Peak Power NVNT 3-DH5 2480MHz

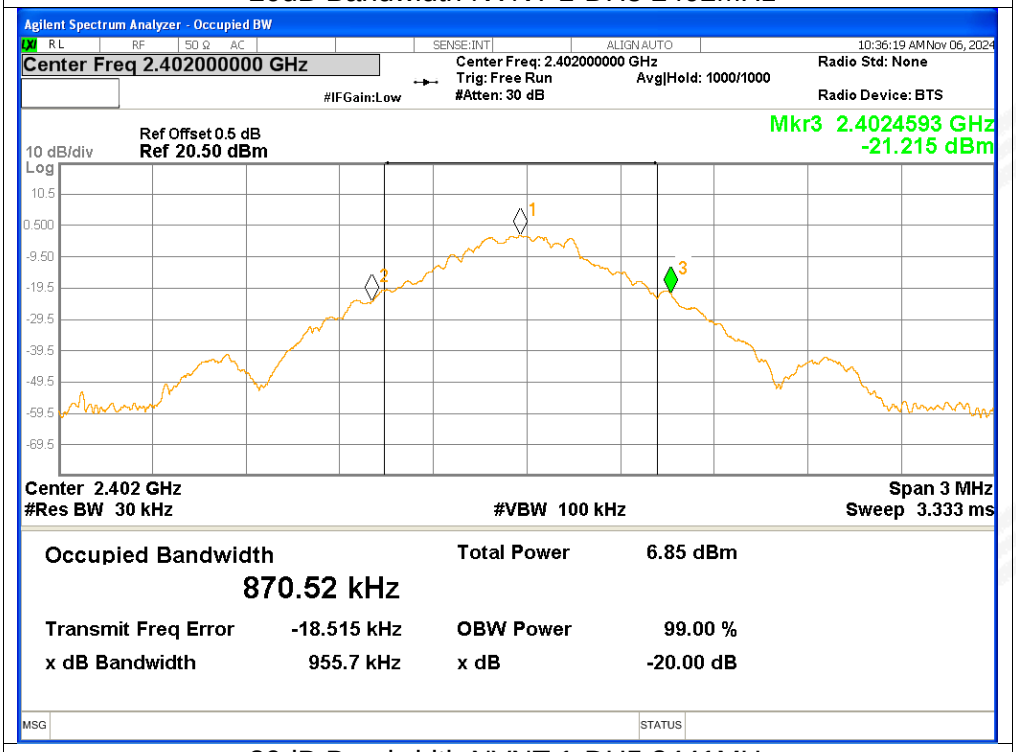


3. -20dB Bandwidth

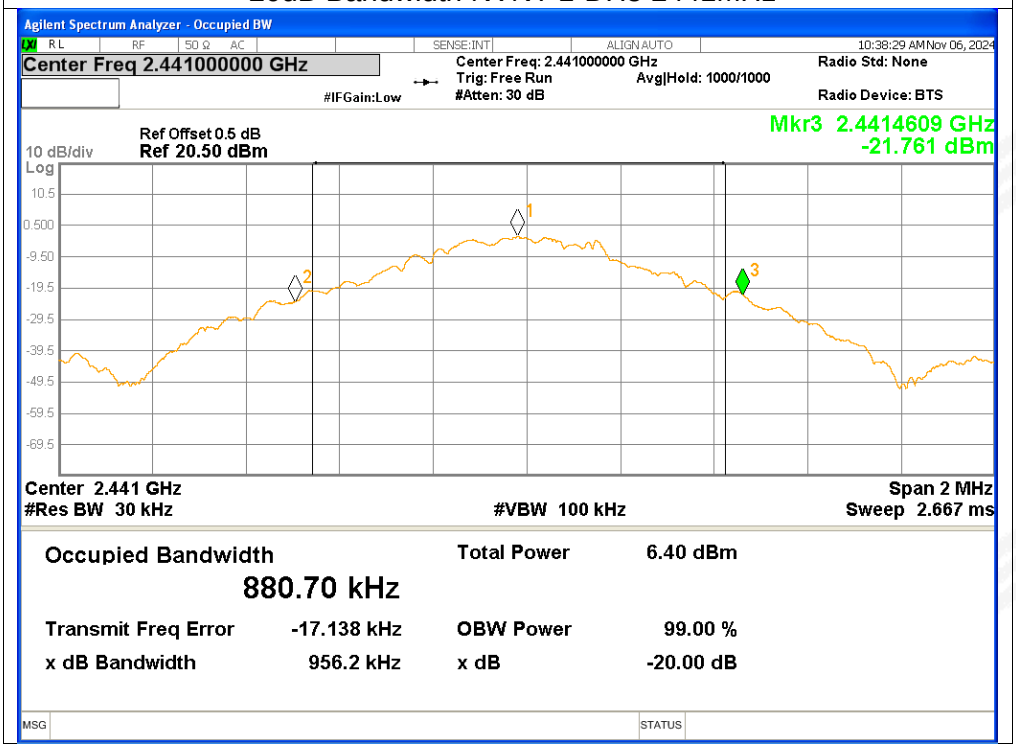
Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	0.9557	Pass
NVNT	1-DH5	2441	0.9562	Pass
NVNT	1-DH5	2480	0.9579	Pass
NVNT	2-DH5	2402	1.4799	Pass
NVNT	2-DH5	2441	1.4793	Pass
NVNT	2-DH5	2480	1.4818	Pass
NVNT	3-DH5	2402	1.4843	Pass
NVNT	3-DH5	2441	1.4825	Pass
NVNT	3-DH5	2480	1.4817	Pass

Test Graphs

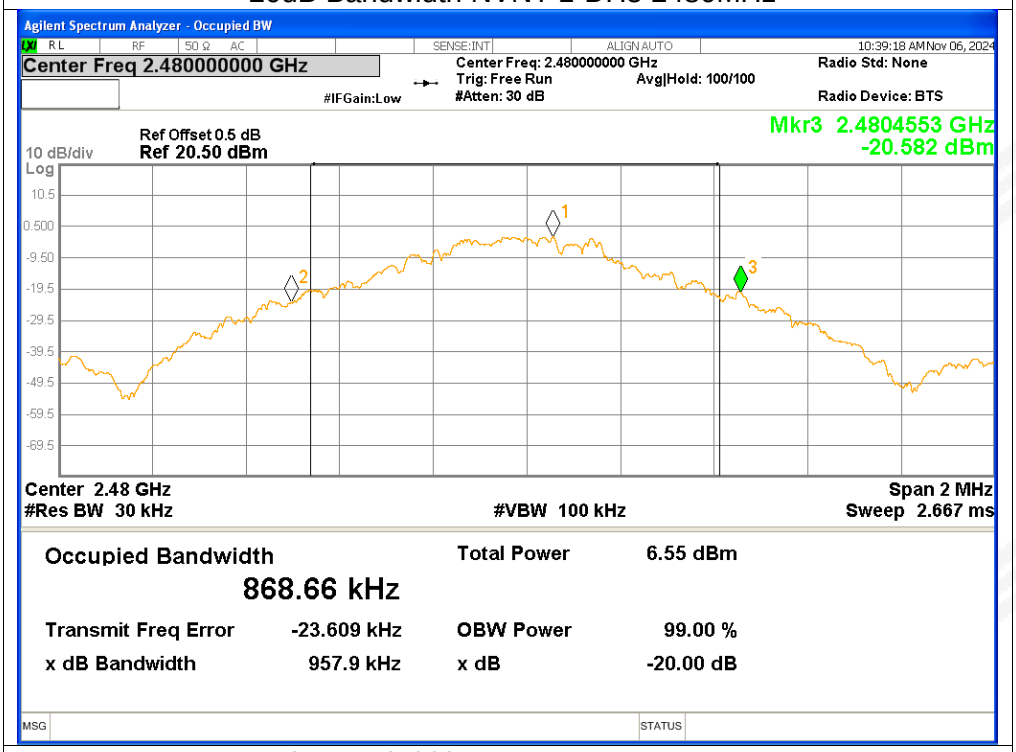
-20dB Bandwidth NVNT 1-DH5 2402MHz



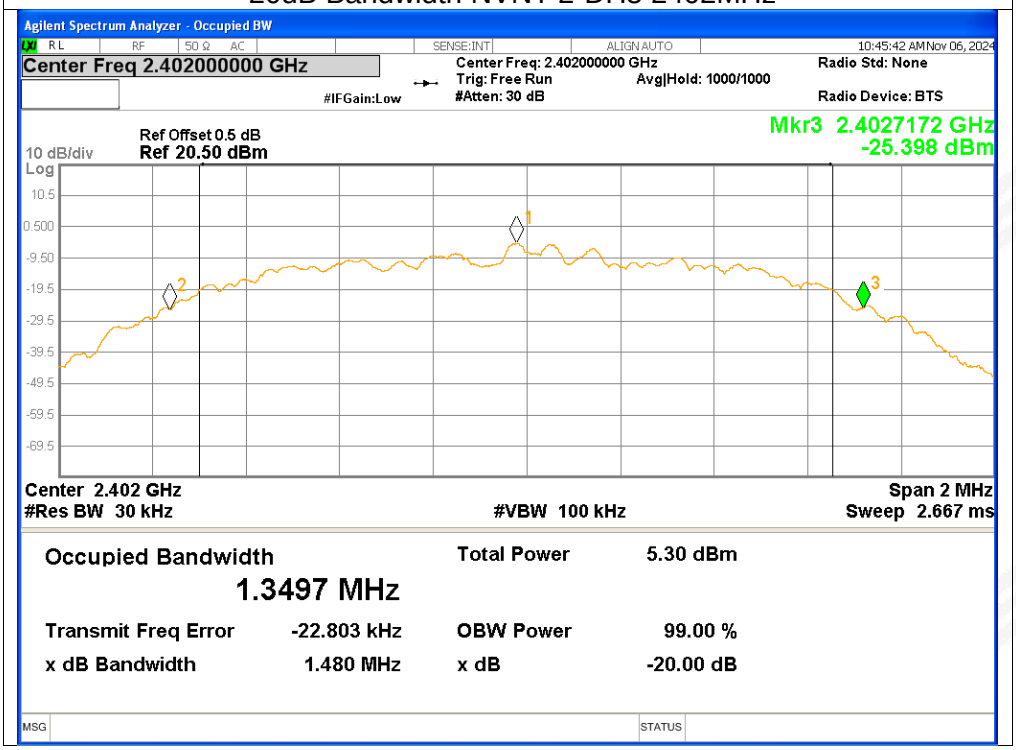
-20dB Bandwidth NVNT 1-DH5 2441MHz



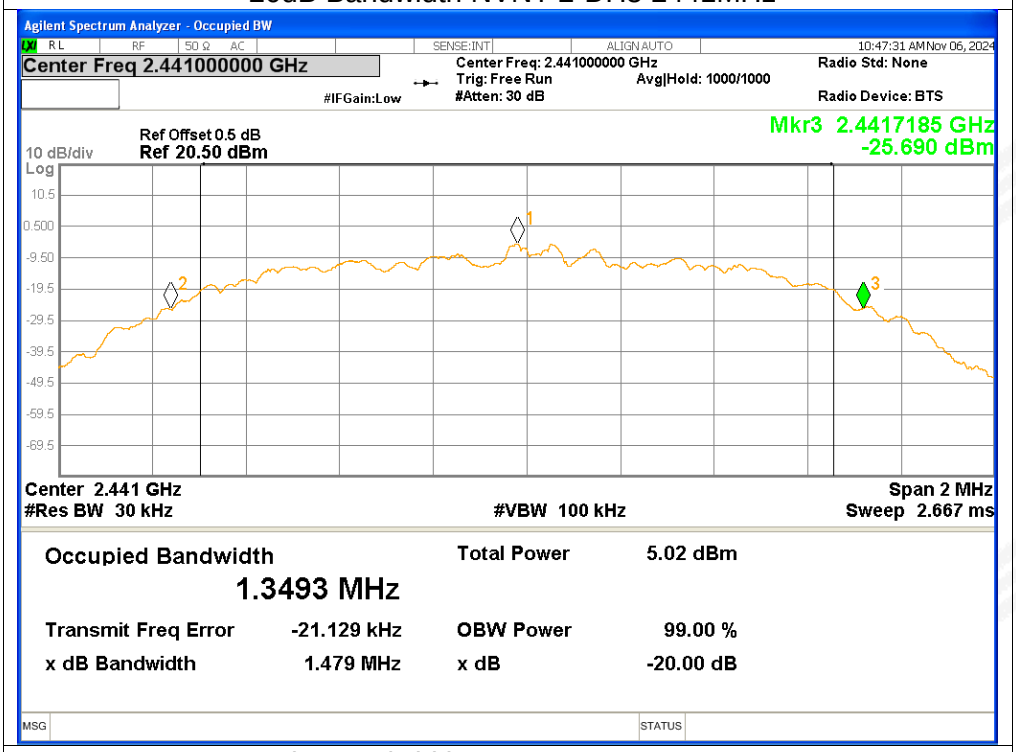
-20dB Bandwidth NVNT 1-DH5 2480MHz



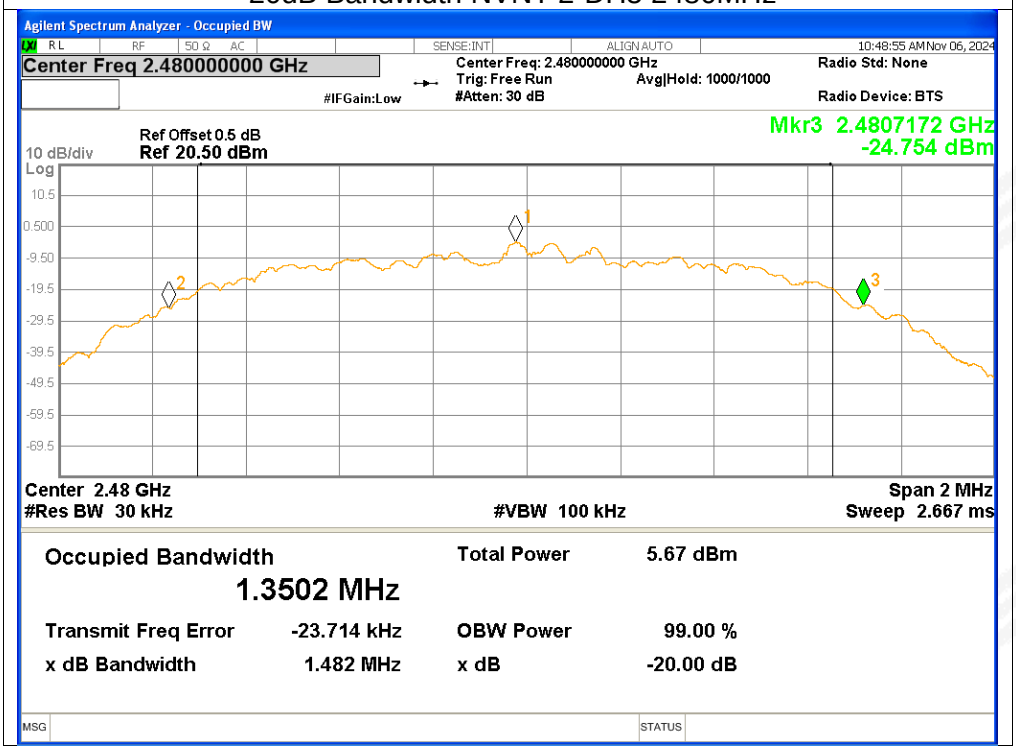
-20dB Bandwidth NVNT 2-DH5 2402MHz



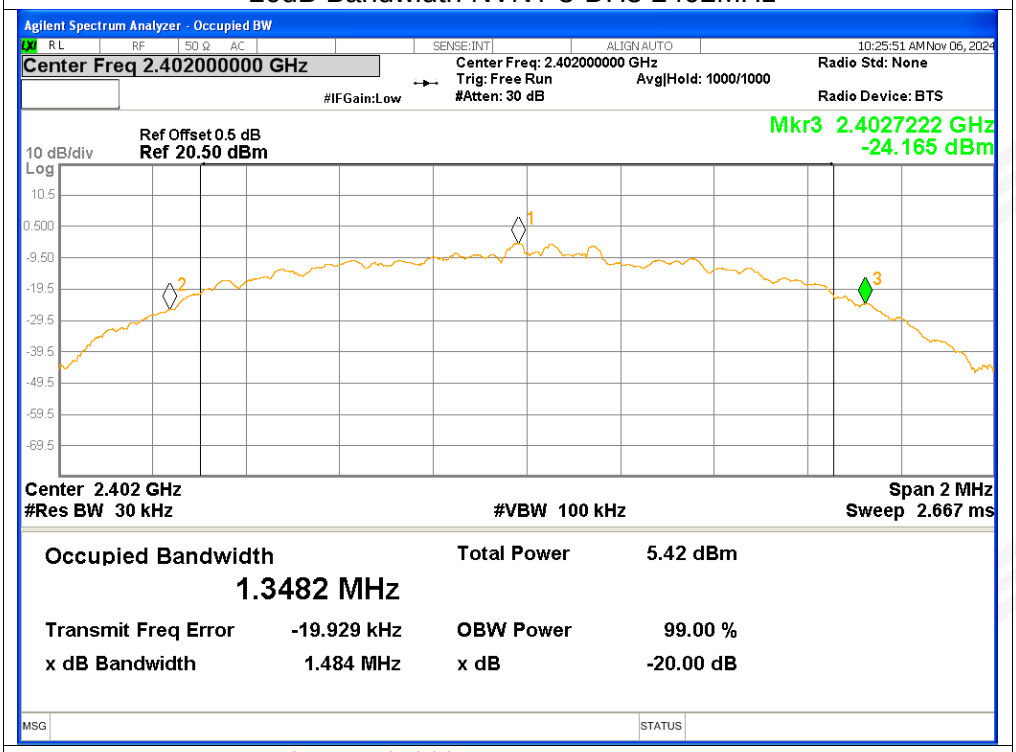
-20dB Bandwidth NVNT 2-DH5 2441MHz



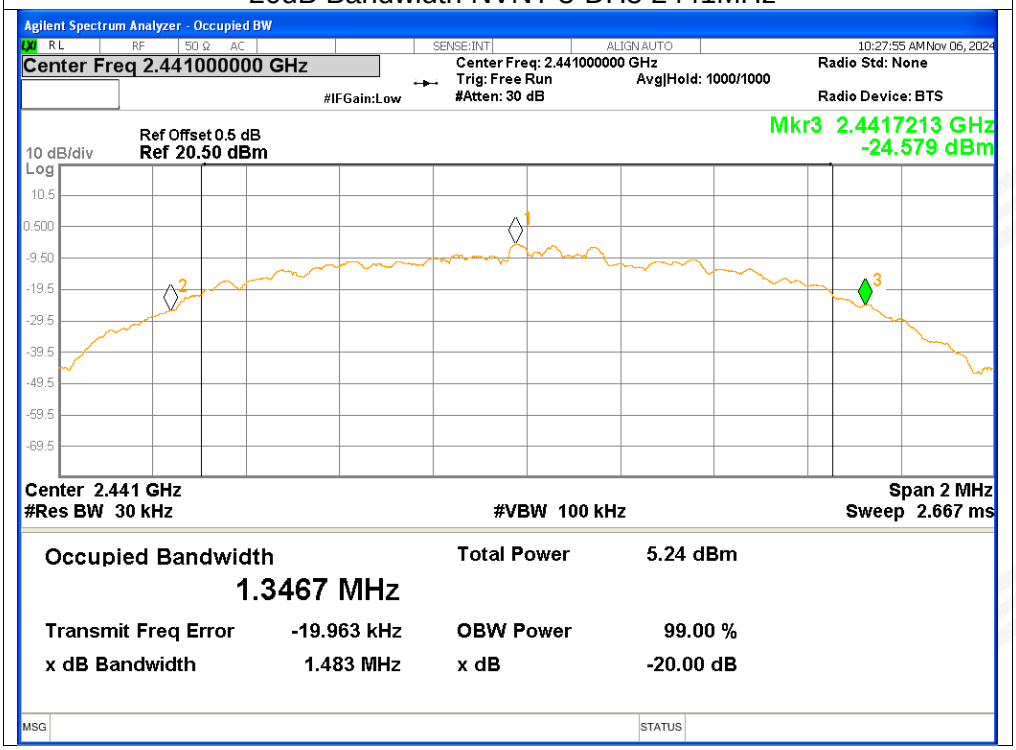
-20dB Bandwidth NVNT 2-DH5 2480MHz



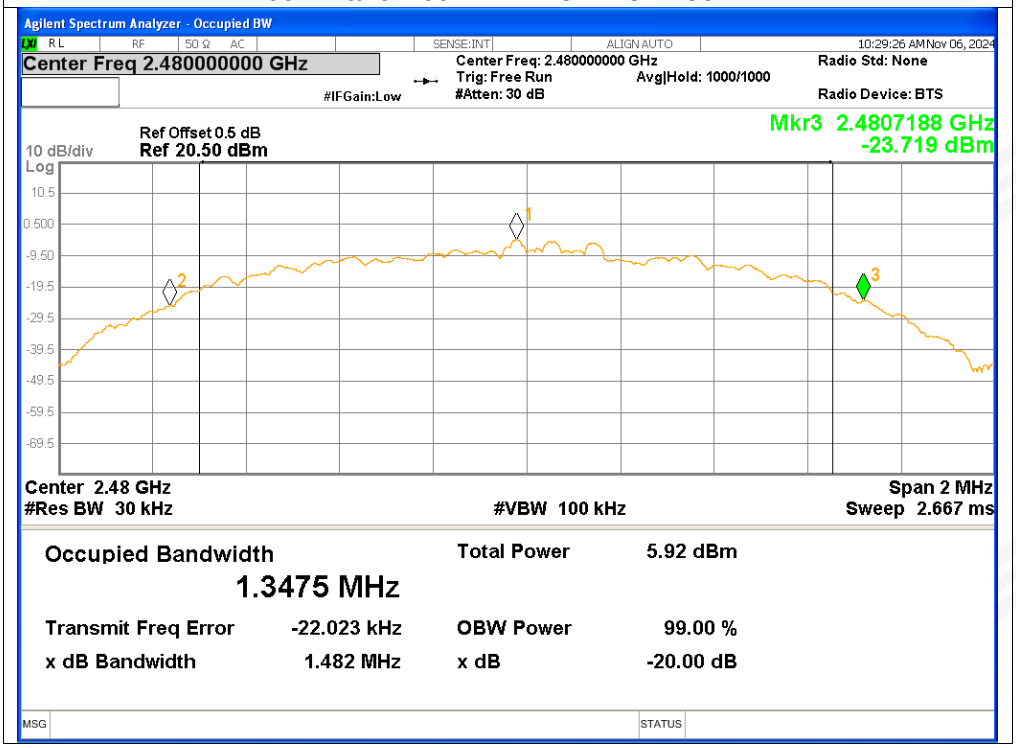
-20dB Bandwidth NVNT 3-DH5 2402MHz



-20dB Bandwidth NVNT 3-DH5 2441MHz



-20dB Bandwidth NVNT 3-DH5 2480MHz

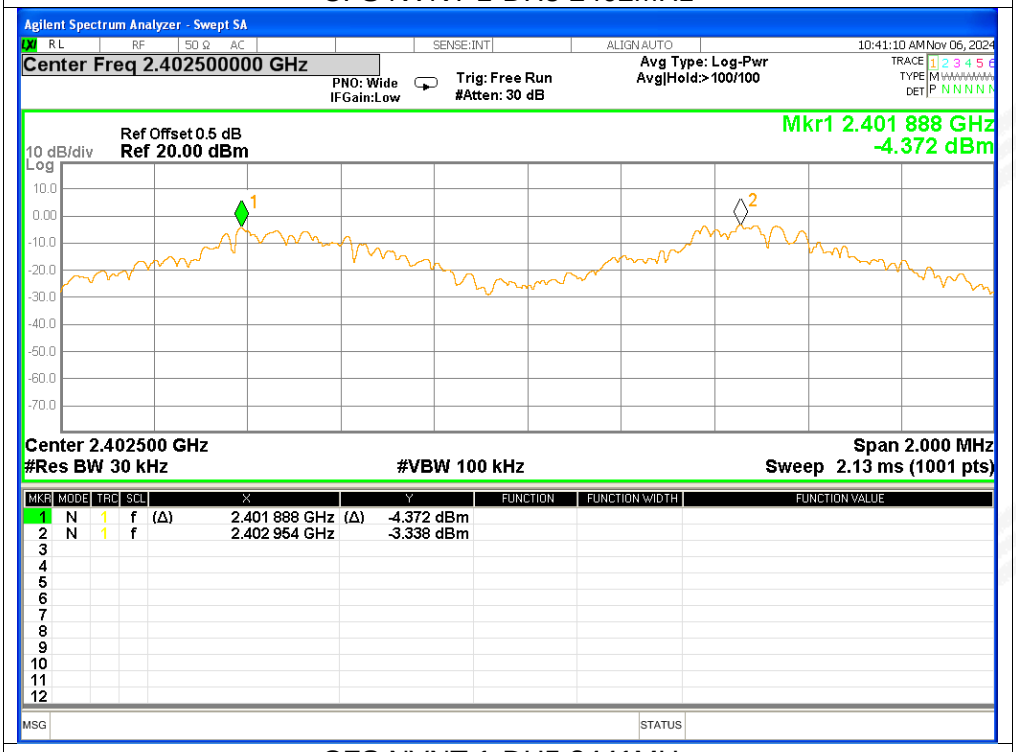


4. Carrier Frequencies Separation

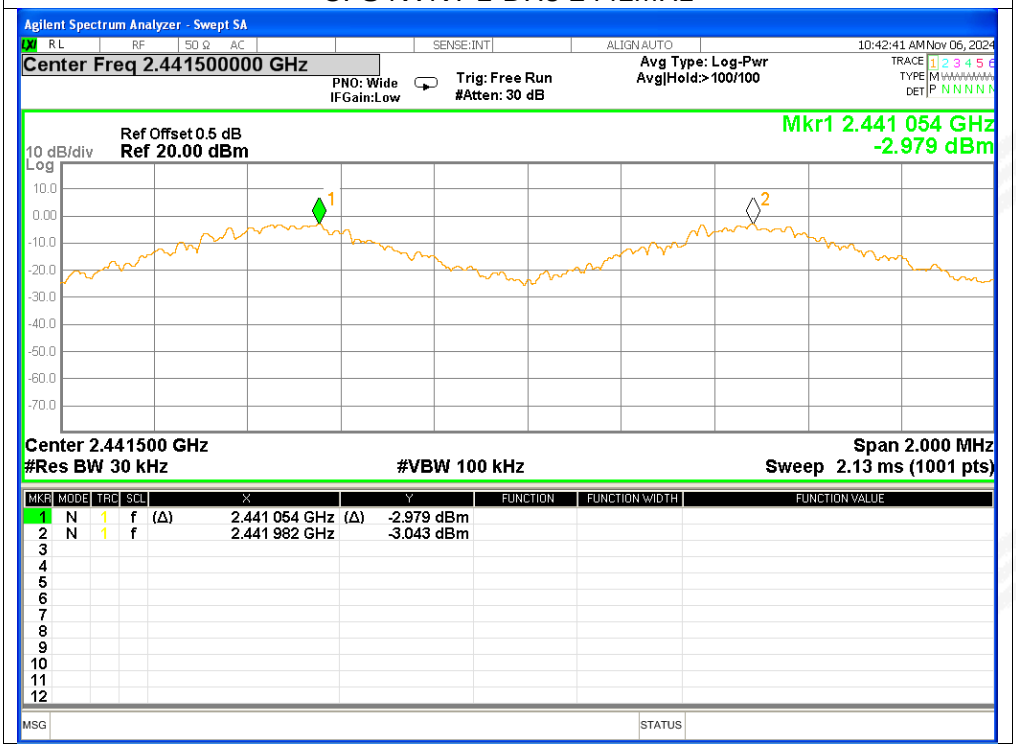
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2401.888	2402.954	1.066	>=0.637	Pass
NVNT	1-DH5	2441.054	2441.982	0.928	>=0.637	Pass
NVNT	1-DH5	2478.964	2479.952	0.988	>=0.639	Pass
NVNT	2-DH5	2401.798	2402.854	1.056	>=0.987	Pass
NVNT	2-DH5	2440.97	2442.044	1.074	>=0.986	Pass
NVNT	2-DH5	2479.056	2480.144	1.088	>=0.988	Pass
NVNT	3-DH5	2402.046	2403.046	1	>=0.99	Pass
NVNT	3-DH5	2441.042	2442.052	1.01	>=0.988	Pass
NVNT	3-DH5	2478.802	2480.108	1.306	>=0.988	Pass

Test Graphs

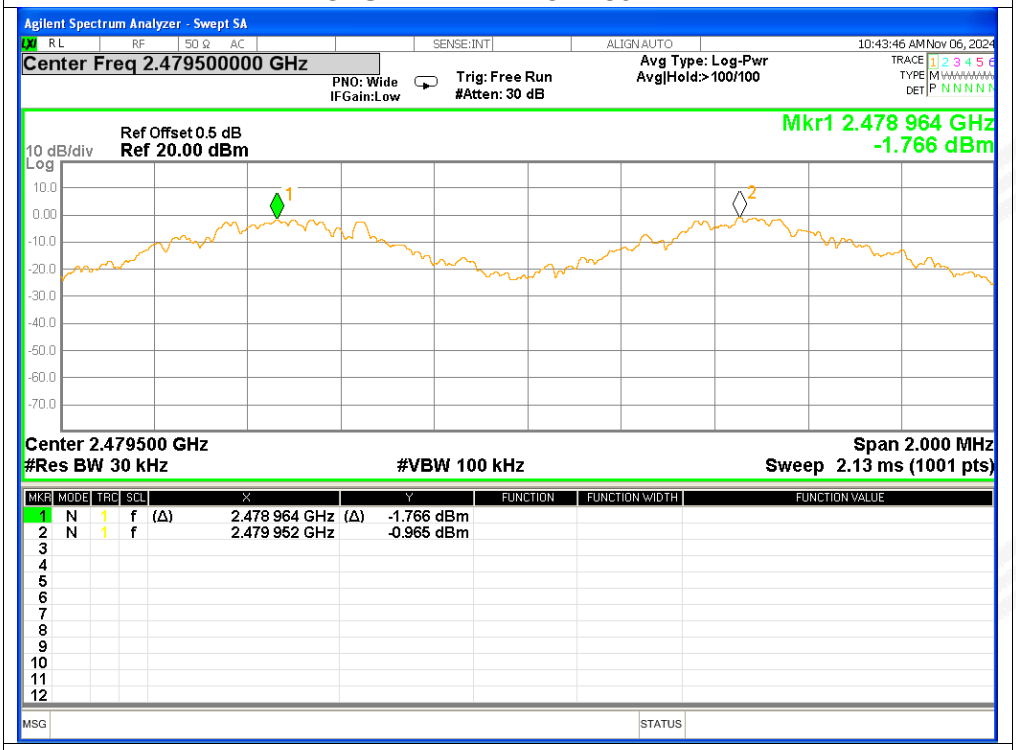
CFS NVNT 1-DH5 2402MHz



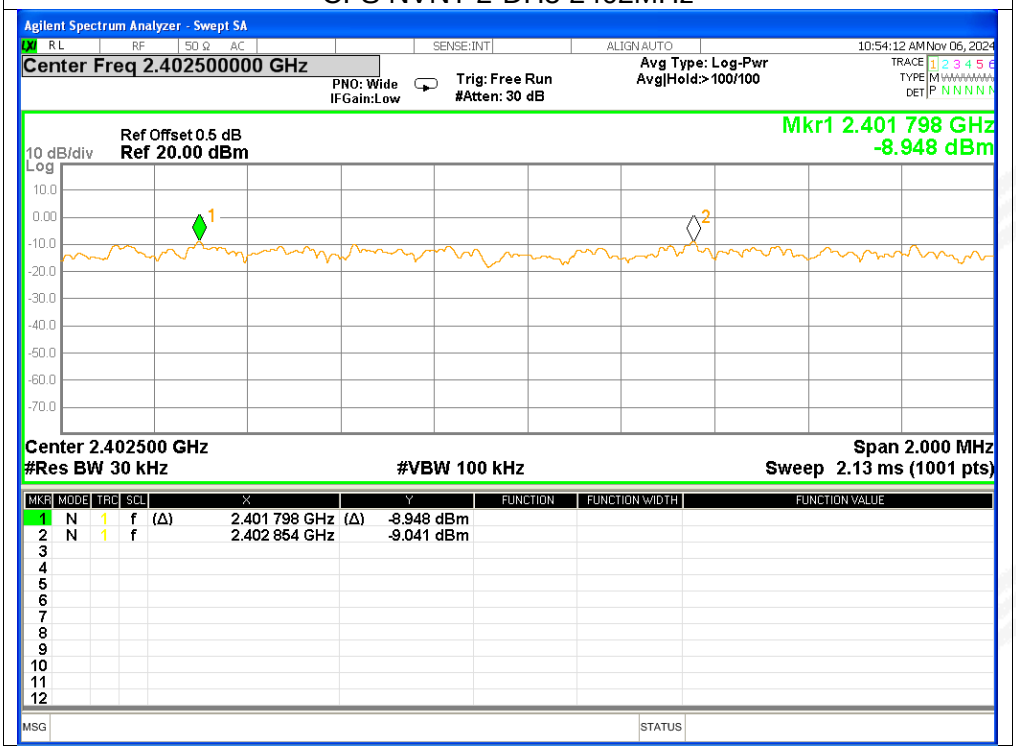
CFS NVNT 1-DH5 2441MHz



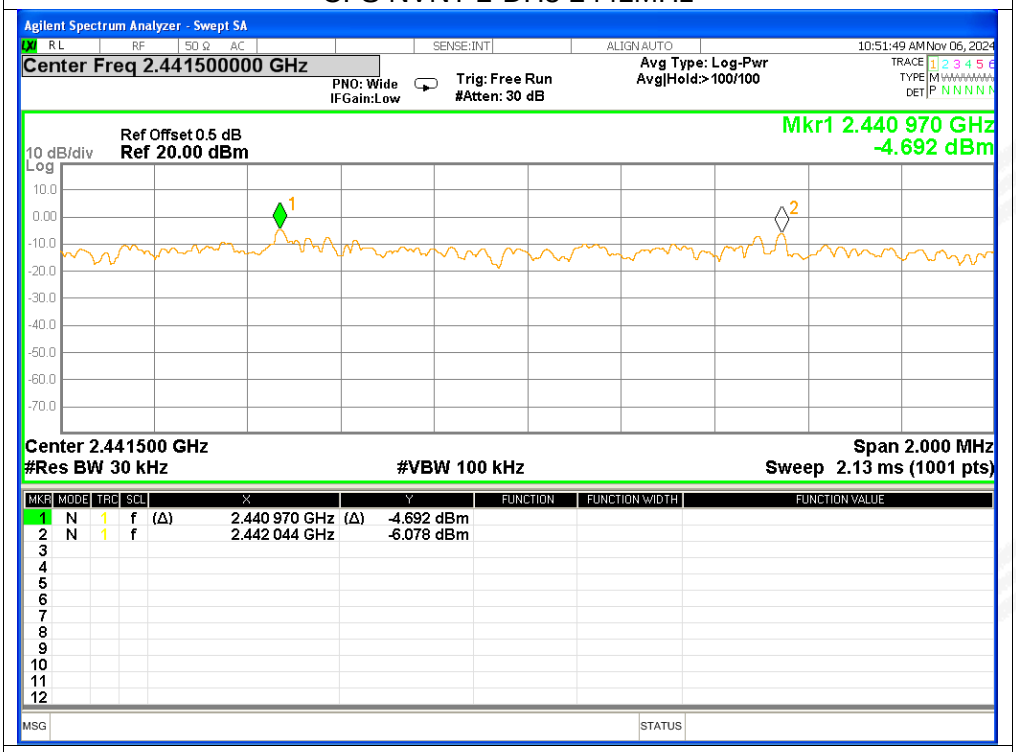
CFS NVNT 1-DH5 2480MHz



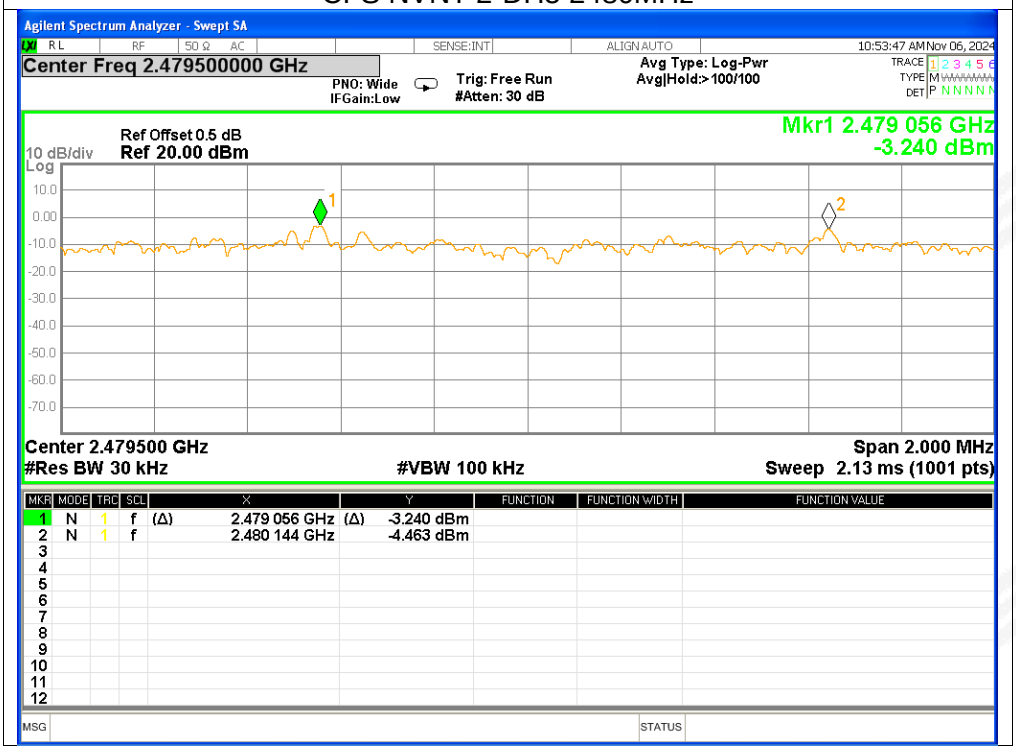
CFS NVNT 2-DH5 2402MHz



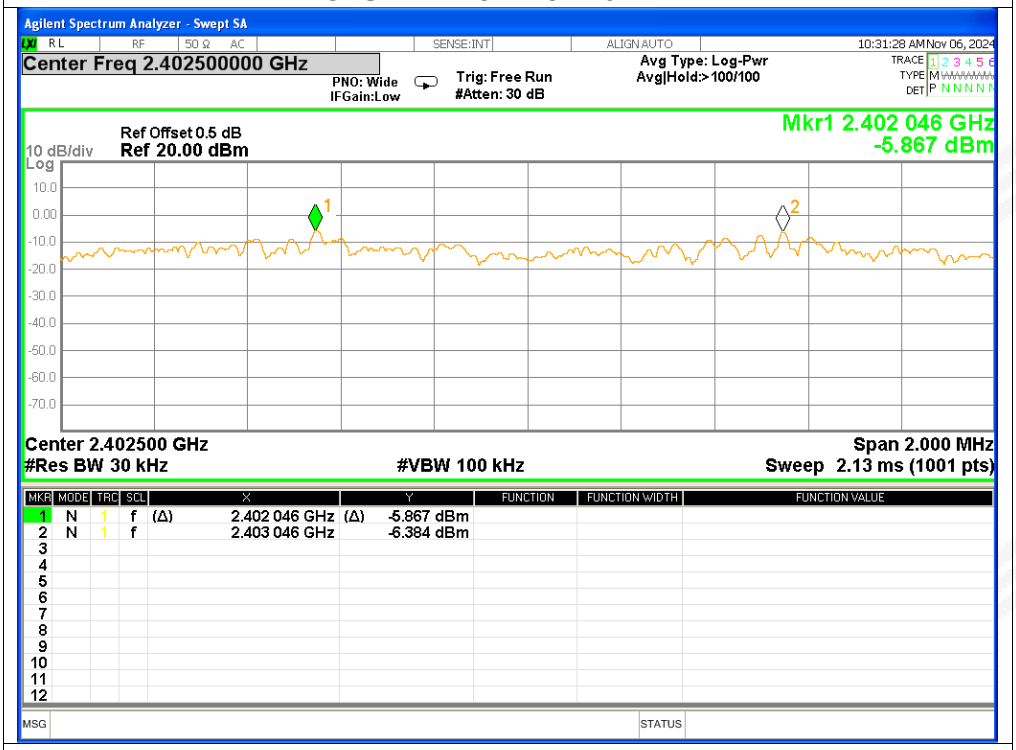
CFS NVNT 2-DH5 2441MHz



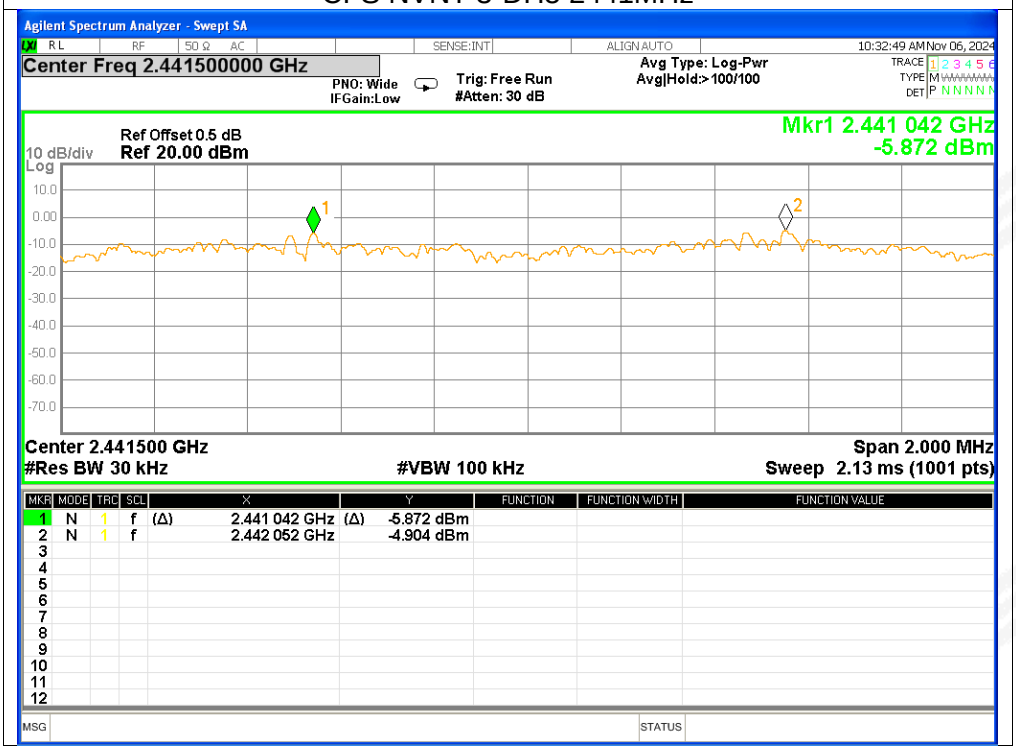
CFS NVNT 2-DH5 2480MHz



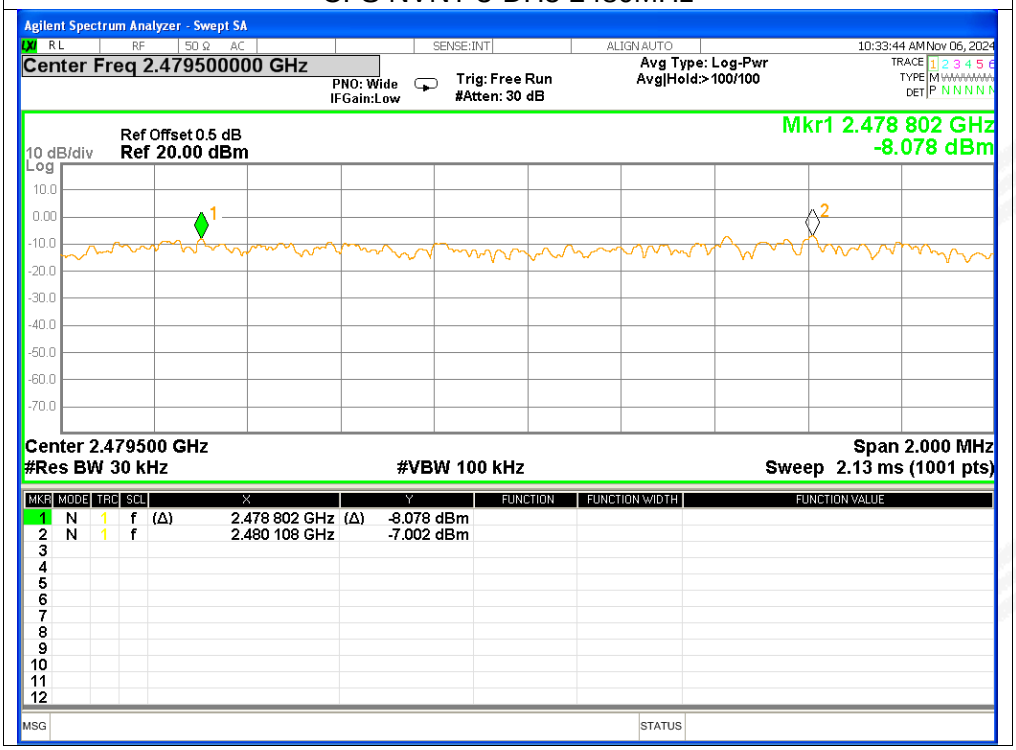
CFS NVNT 3-DH5 2402MHz



CFS NVNT 3-DH5 2441MHz



CFS NVNT 3-DH5 2480MHz

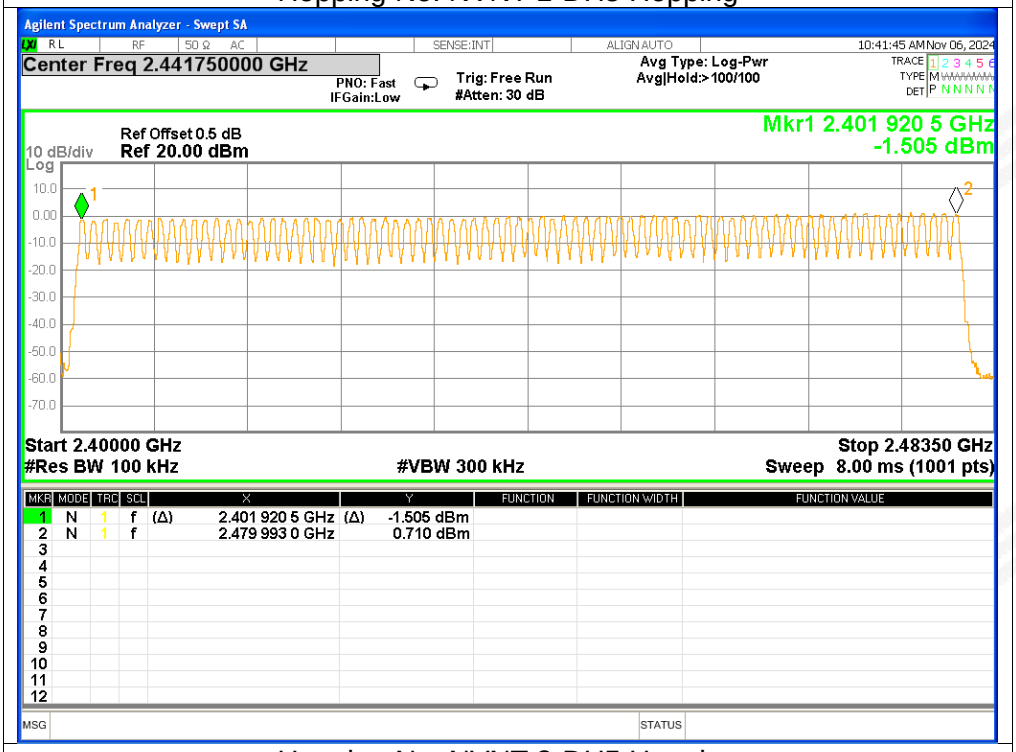


5. Number of Hopping Channel

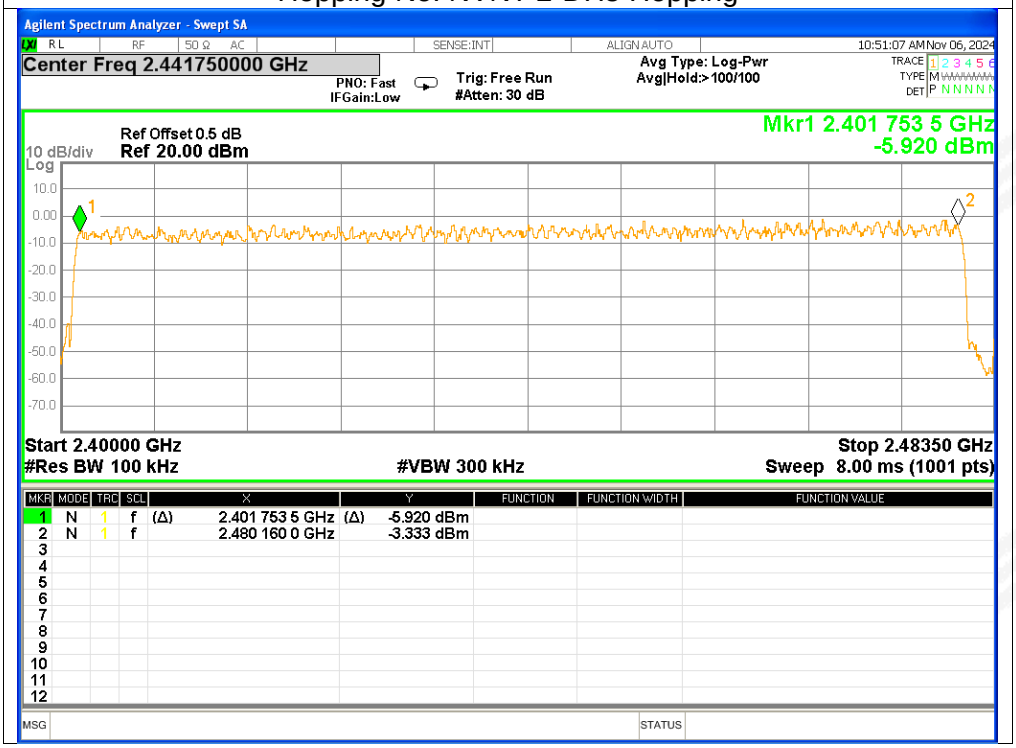
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH5	79	>=15	Pass
NVNT	2-DH5	79	>=15	Pass
NVNT	3-DH5	79	>=15	Pass

Test Graphs

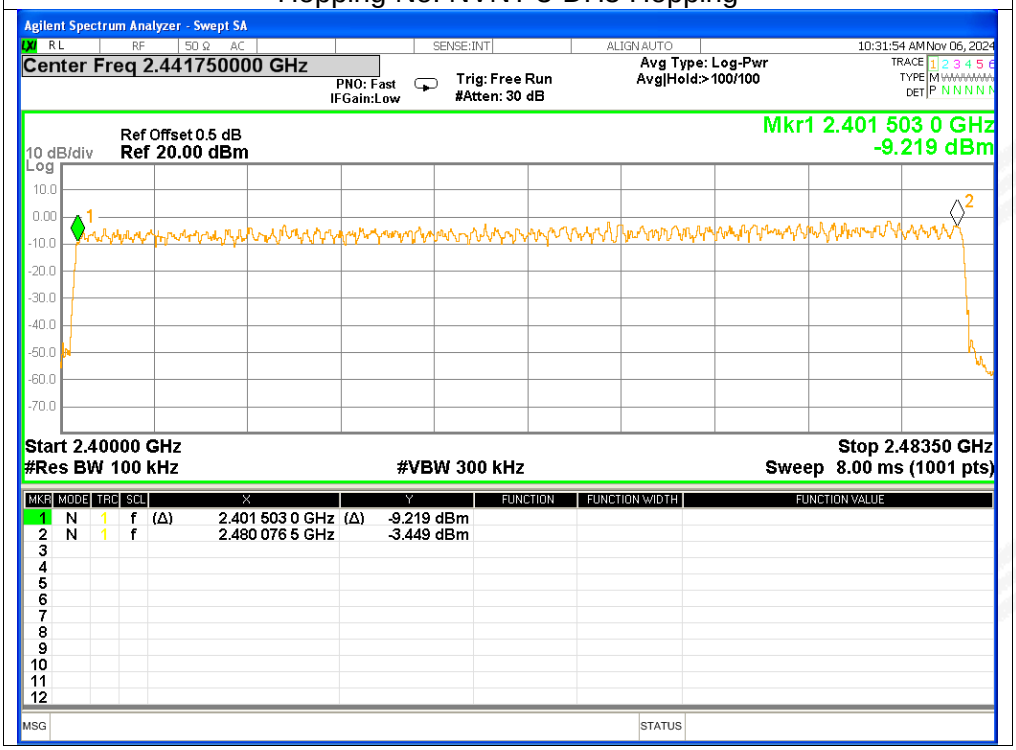
Hopping No. NVNT 1-DH5 Hopping



Hopping No. NVNT 2-DH5 Hopping



Hopping No. NVNT 3-DH5 Hopping

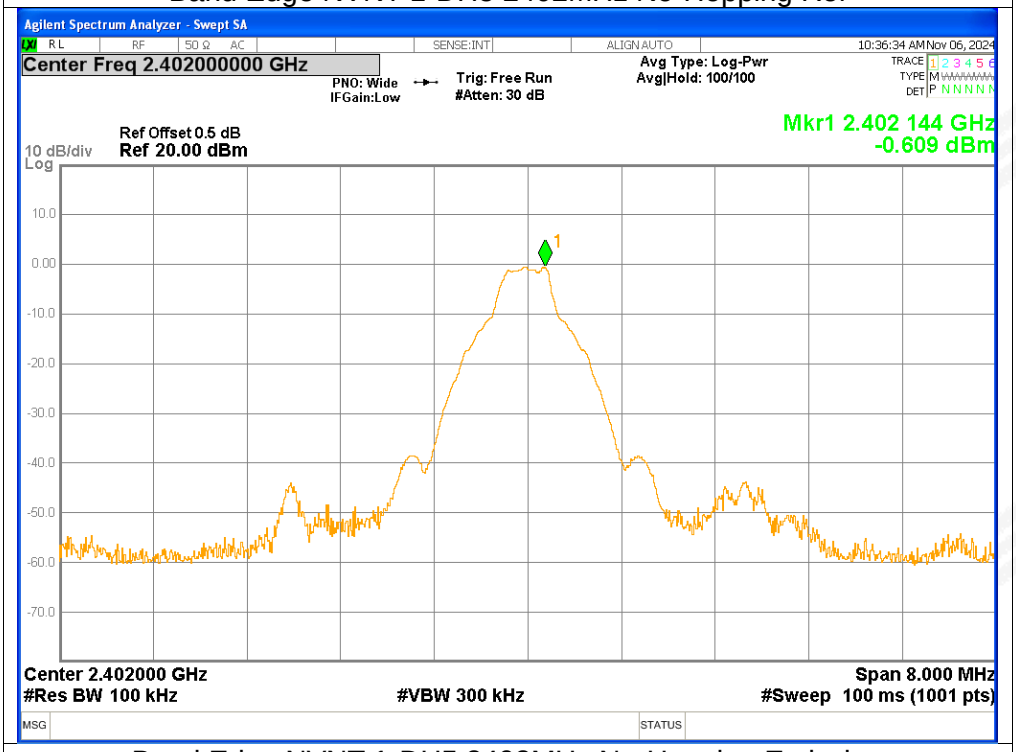


6. Band Edge

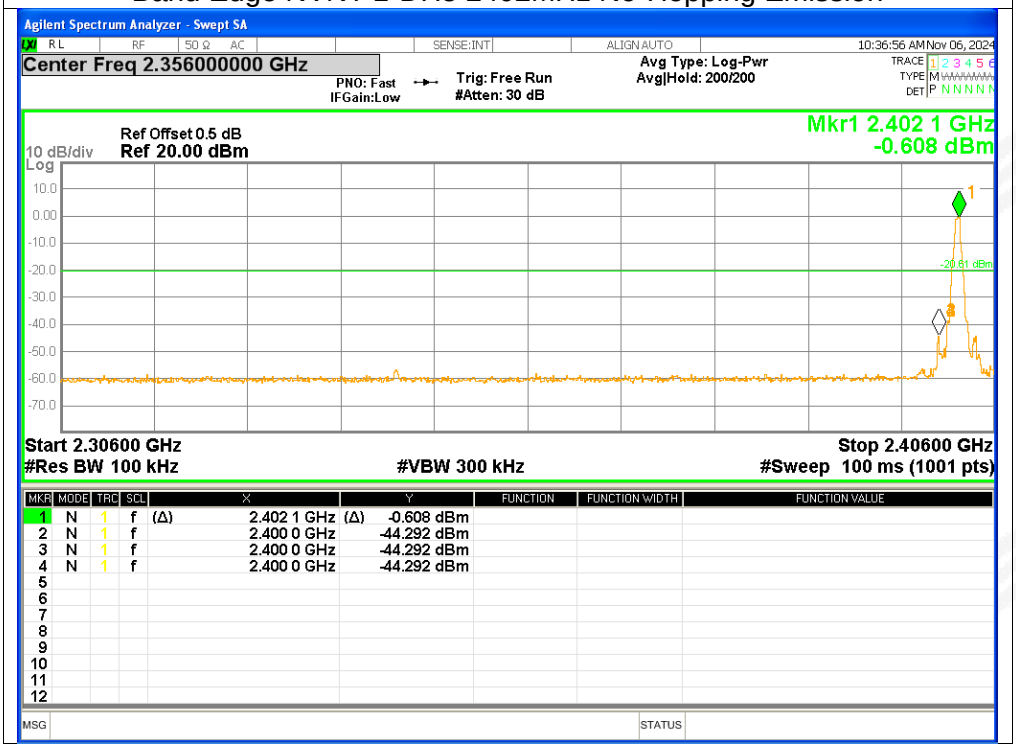
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	No-Hopping	-43.68	<=-20	Pass
NVNT	1-DH5	2480	No-Hopping	-42.66	<=-20	Pass
NVNT	2-DH5	2402	No-Hopping	-43.43	<=-20	Pass
NVNT	2-DH5	2480	No-Hopping	-44.8	<=-20	Pass
NVNT	3-DH5	2402	No-Hopping	-46.46	<=-20	Pass
NVNT	3-DH5	2480	No-Hopping	-39.97	<=-20	Pass

Test Graphs

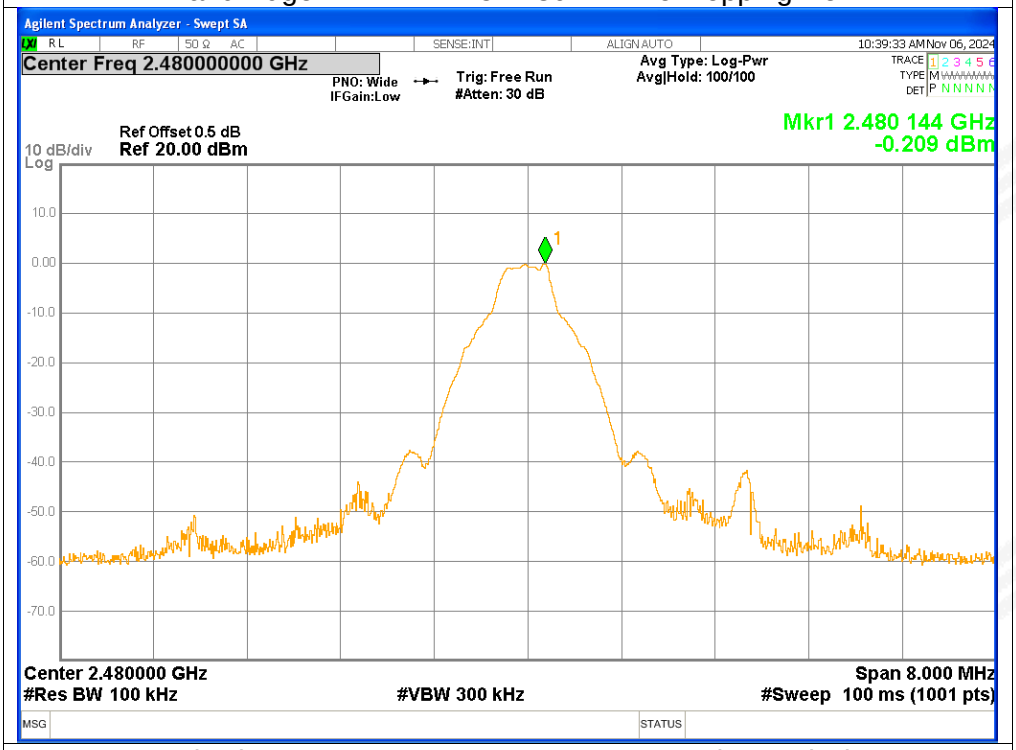
Band Edge NVNT 1-DH5 2402MHz No-Hopping Ref



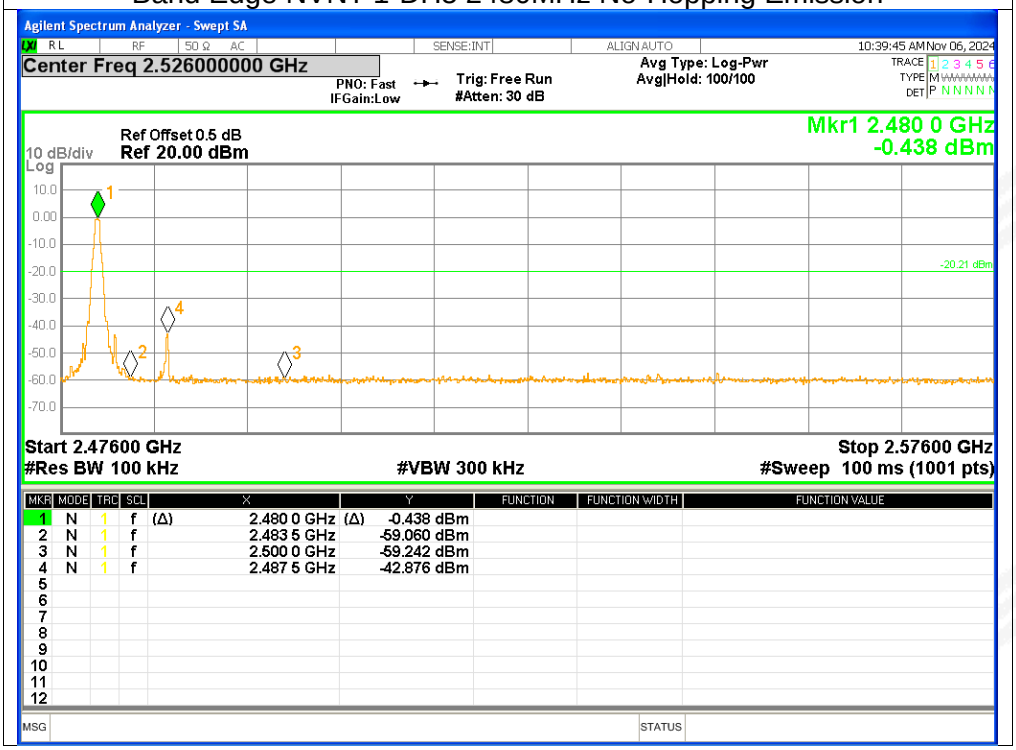
Band Edge NVNT 1-DH5 2402MHz No-Hopping Emission



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

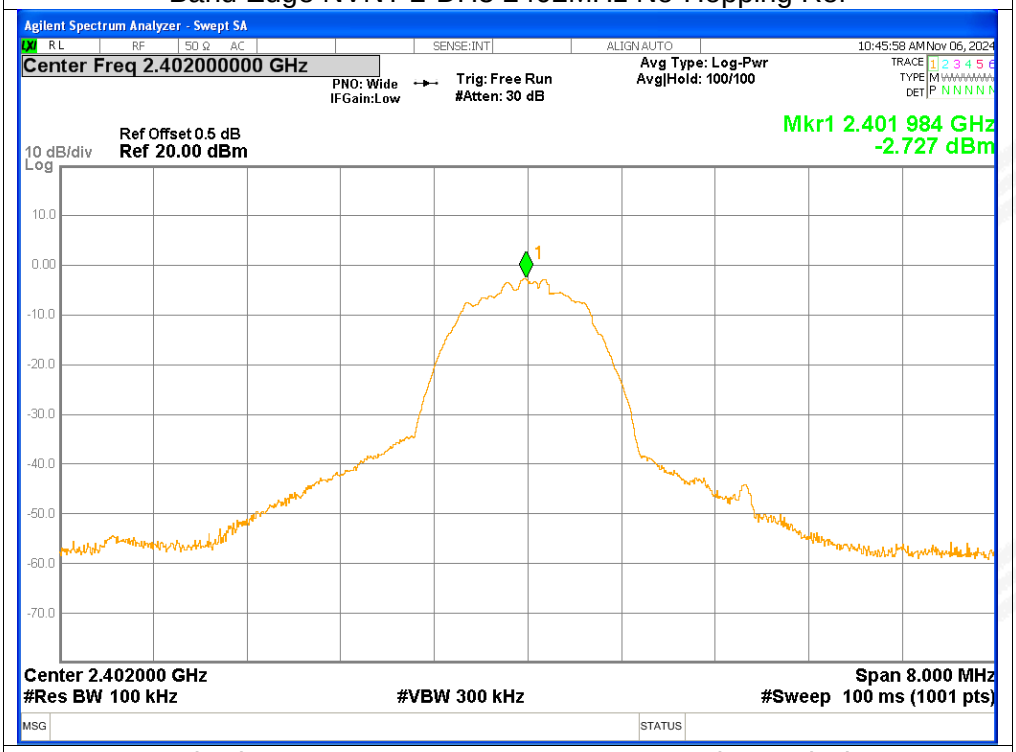


Band Edge NVNT 1-DH5 2480MHz No-Hopping Emission

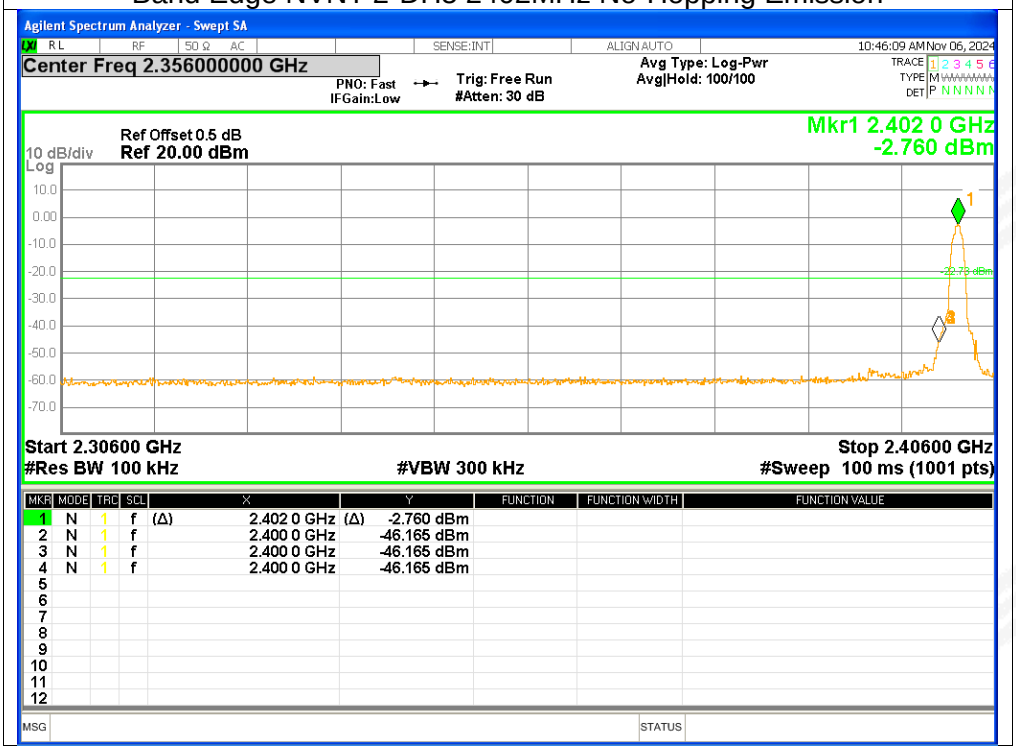


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.480 0 GHz	(Δ) -0.438 dBm			
2	N	1	f	2.483 5 GHz	-59.060 dBm			
3	N	1	f	2.500 0 GHz	-59.242 dBm			
4	N	1	f	2.487 5 GHz	-42.876 dBm			
5								
6								
7								
8								
9								
10								
11								
12								

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

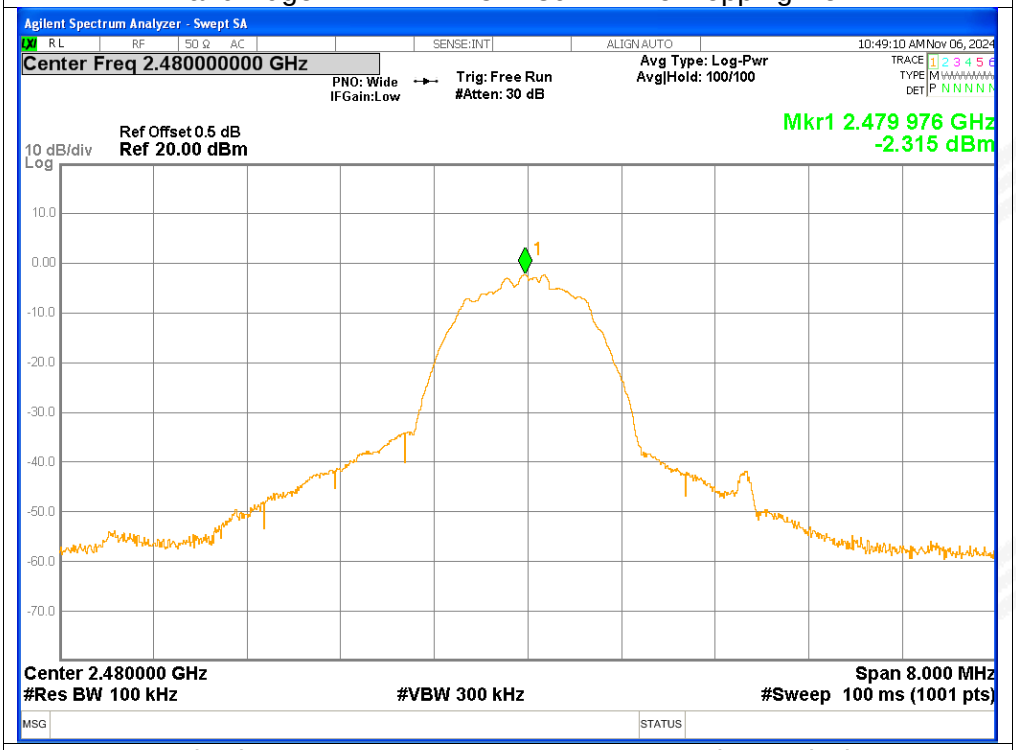


Band Edge NVNT 2-DH5 2402MHz No-Hopping Emission

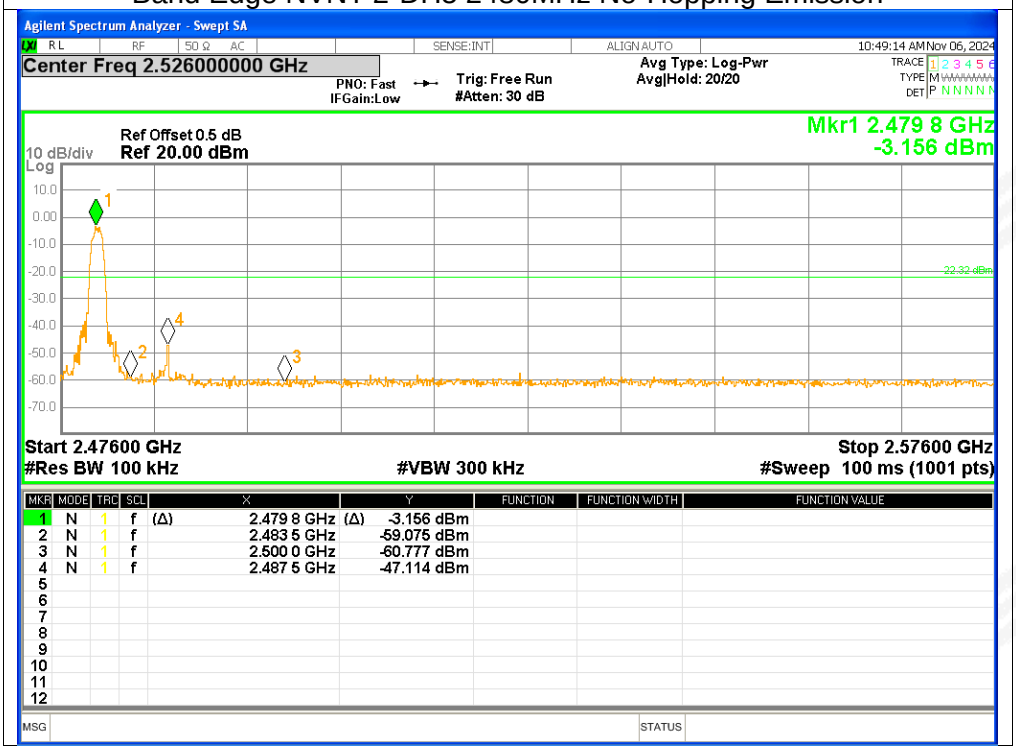


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.402 0 GHz	(Δ) -2.760 dBm			
2	N	1	f	2.400 0 GHz	-46.165 dBm			
3	N	1	f	2.400 0 GHz	-46.165 dBm			
4	N	1	f	2.400 0 GHz	-46.165 dBm			
5								
6								
7								
8								
9								
10								
11								
12								

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

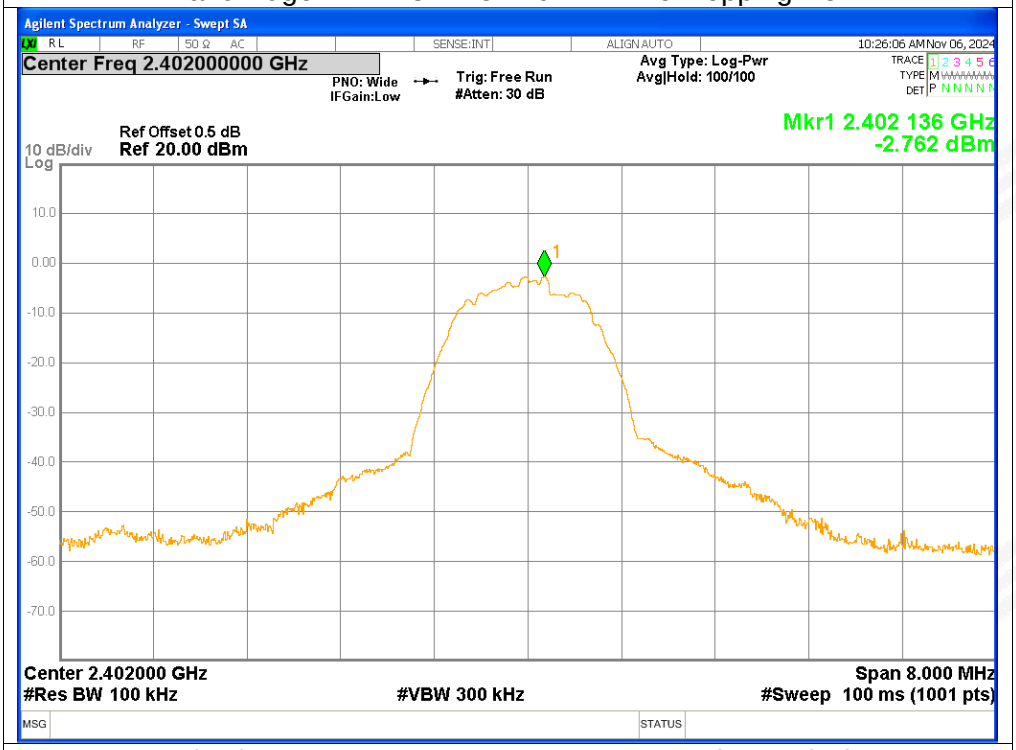


Band Edge NVNT 2-DH5 2480MHz No-Hopping Emission

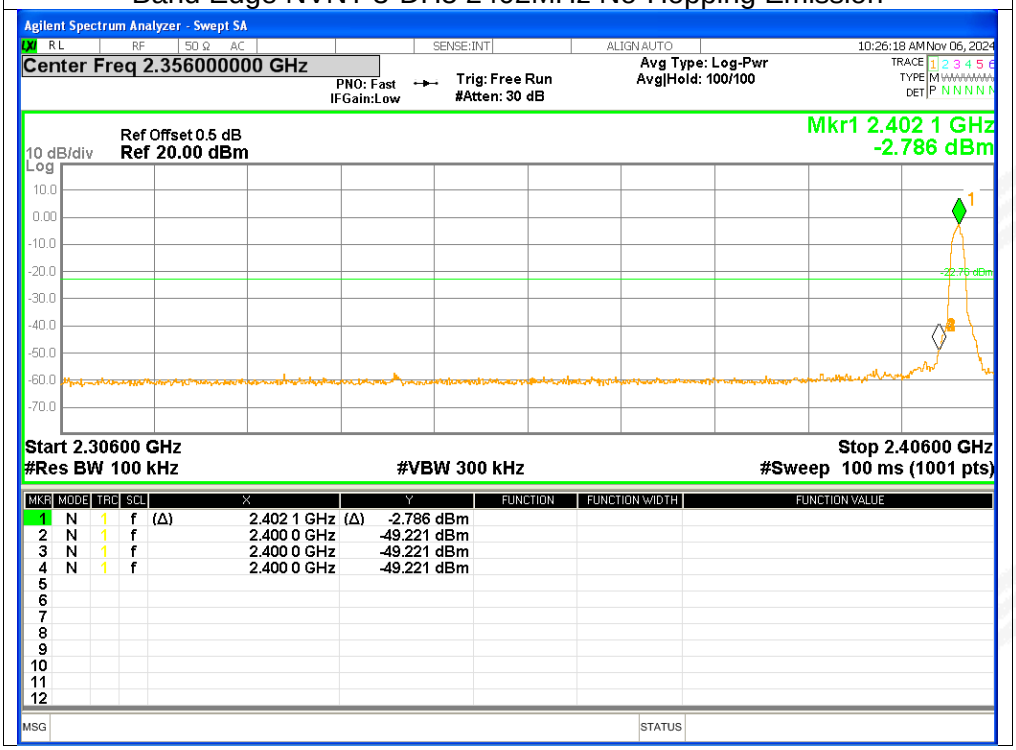


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.479 8 GHz	(Δ) -3.156 dBm			
2	N	1	f	2.483 5 GHz	-59.075 dBm			
3	N	1	f	2.500 0 GHz	-60.777 dBm			
4	N	1	f	2.487 5 GHz	-47.114 dBm			
5								
6								
7								
8								
9								
10								
11								
12								

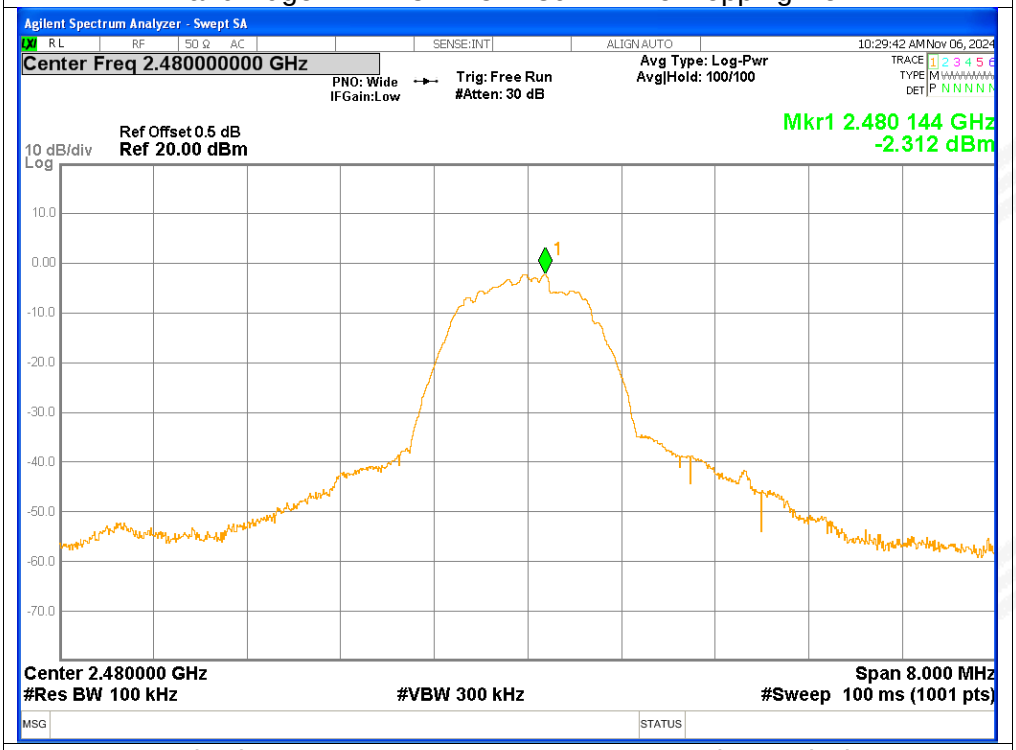
Band Edge NVNT 3-DH5 2402MHz No-Hopping Ref



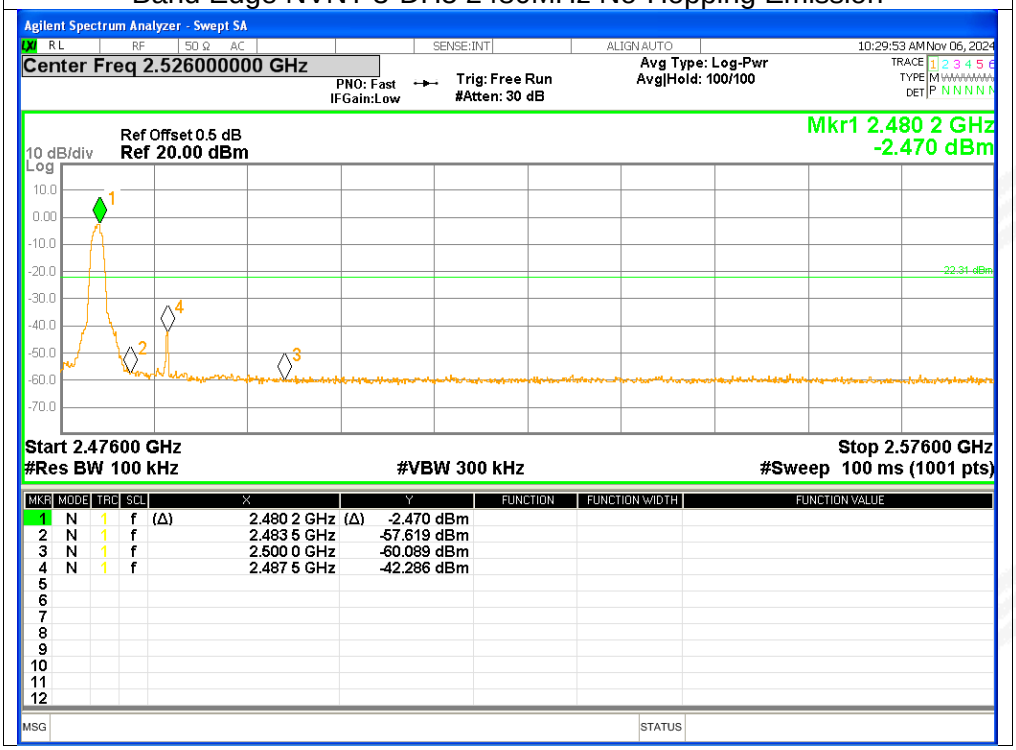
Band Edge NVNT 3-DH5 2402MHz No-Hopping Emission



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



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

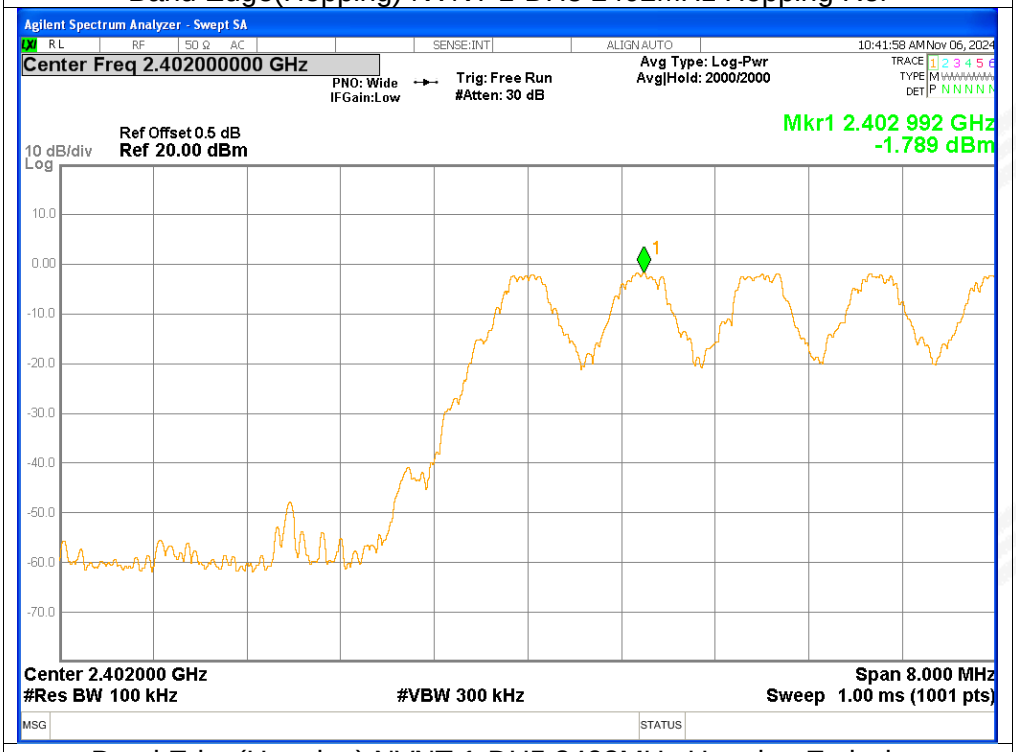


7. Band Edge(Hopping)

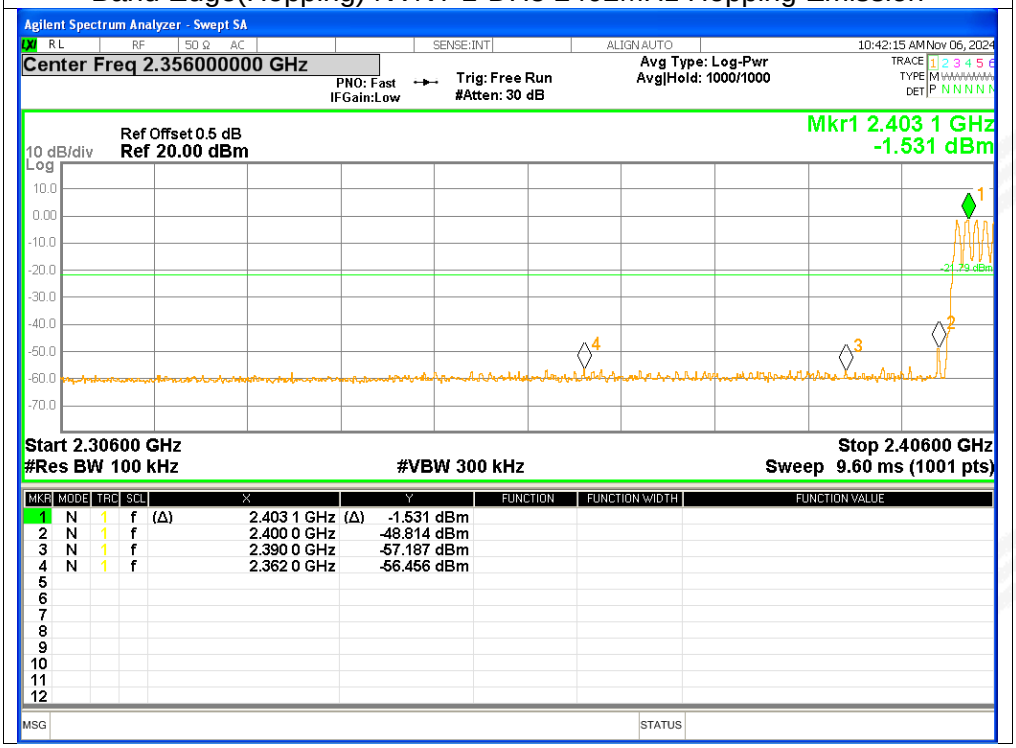
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Hopping	-54.66	<=-20	Pass
NVNT	1-DH5	2480	Hopping	-58.66	<=-20	Pass
NVNT	2-DH5	2402	Hopping	-52.04	<=-20	Pass
NVNT	2-DH5	2480	Hopping	-42.97	<=-20	Pass
NVNT	3-DH5	2402	Hopping	-53.86	<=-20	Pass
NVNT	3-DH5	2480	Hopping	-53.9	<=-20	Pass

Test Graphs

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

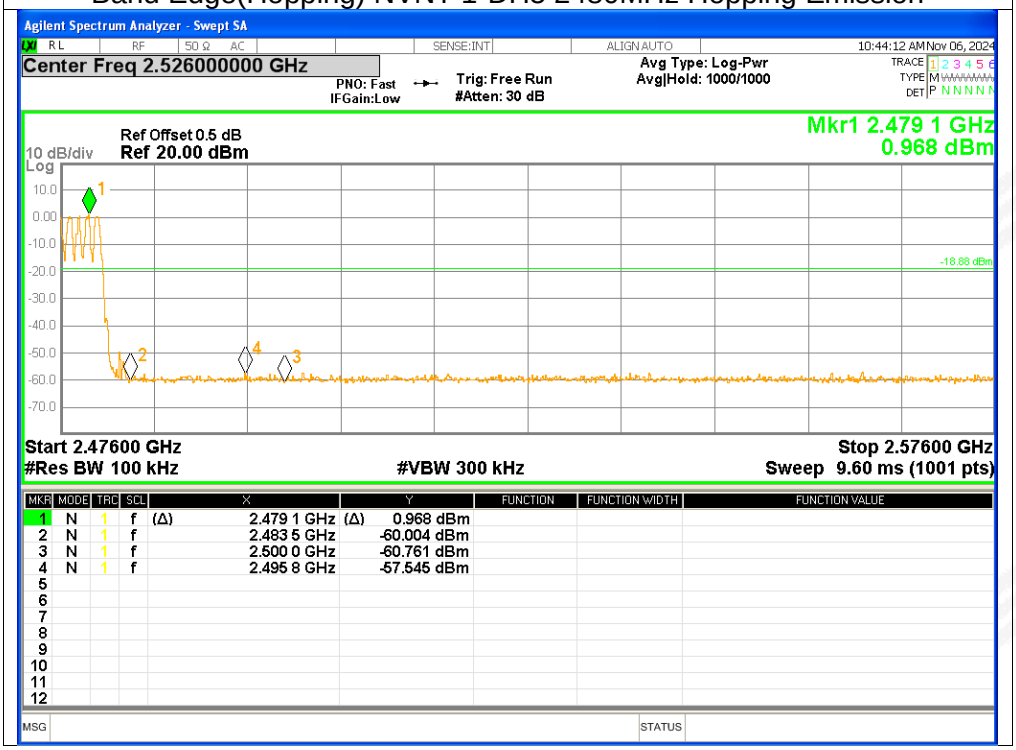


Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Emission

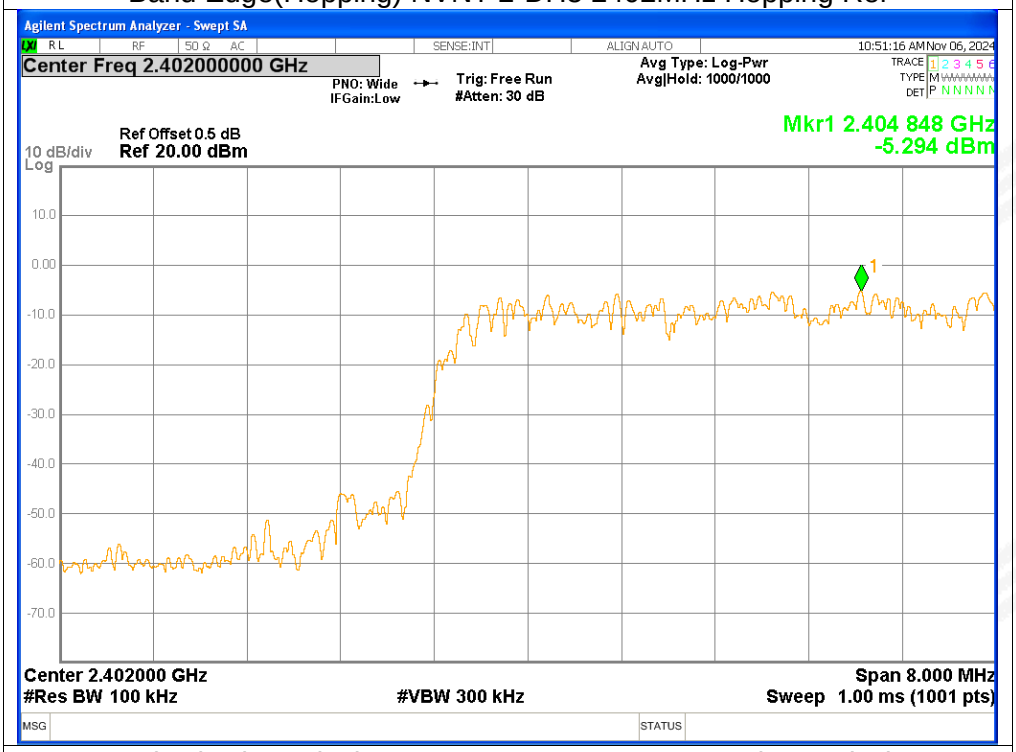


Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Ref

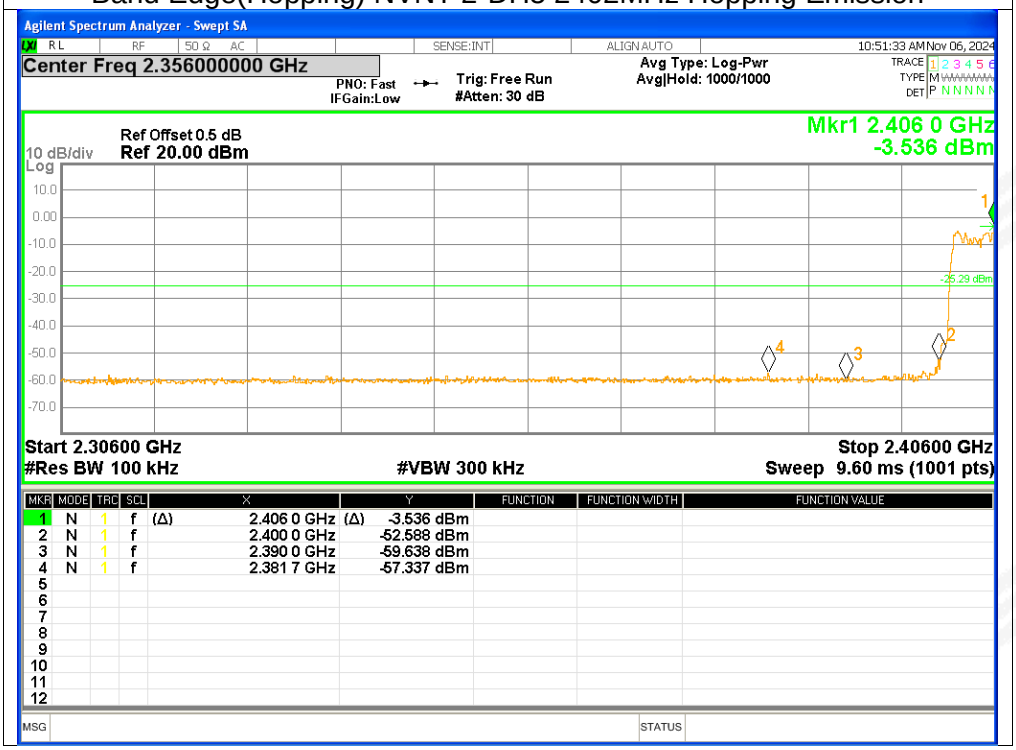
Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Emission



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



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



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.406 0 GHz	(Δ) -3.536 dBm			
2	N	1	f	2.400 0 GHz	-52.588 dBm			
3	N	1	f	2.390 0 GHz	-59.638 dBm			
4	N	1	f	2.381 7 GHz	-57.337 dBm			
5								
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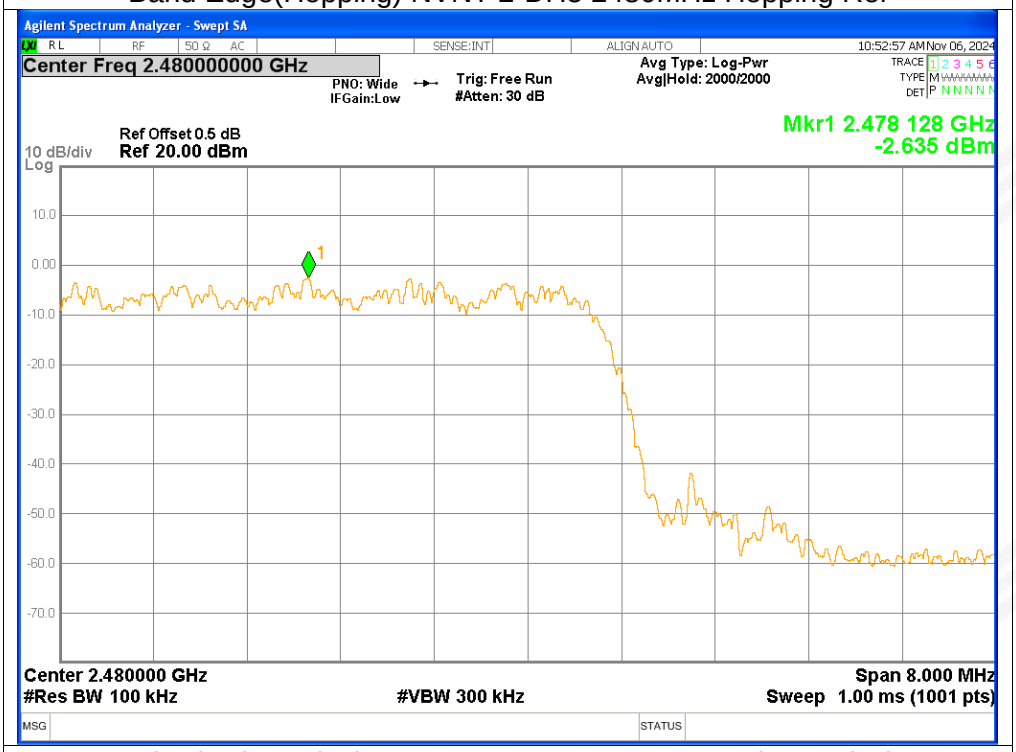
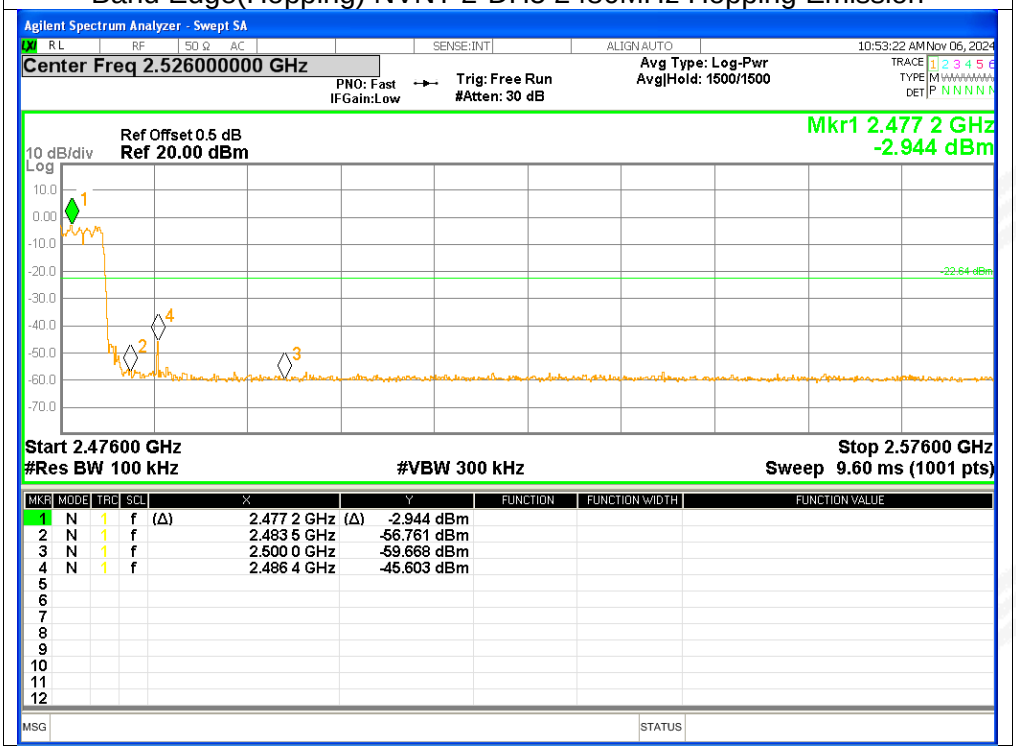
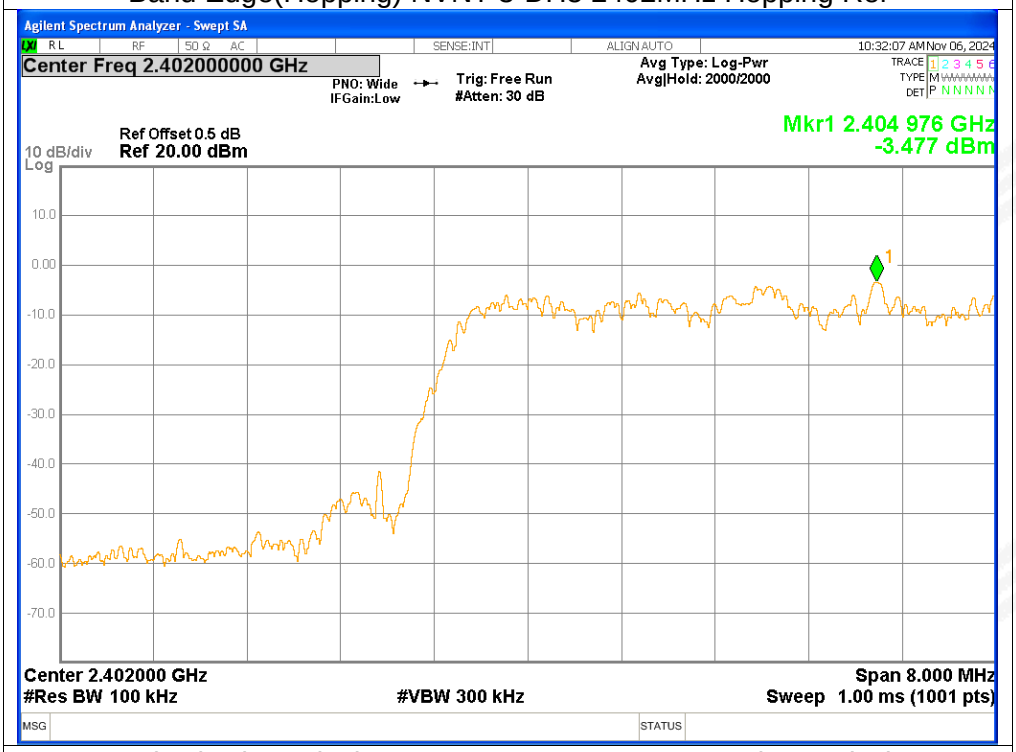
Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Ref



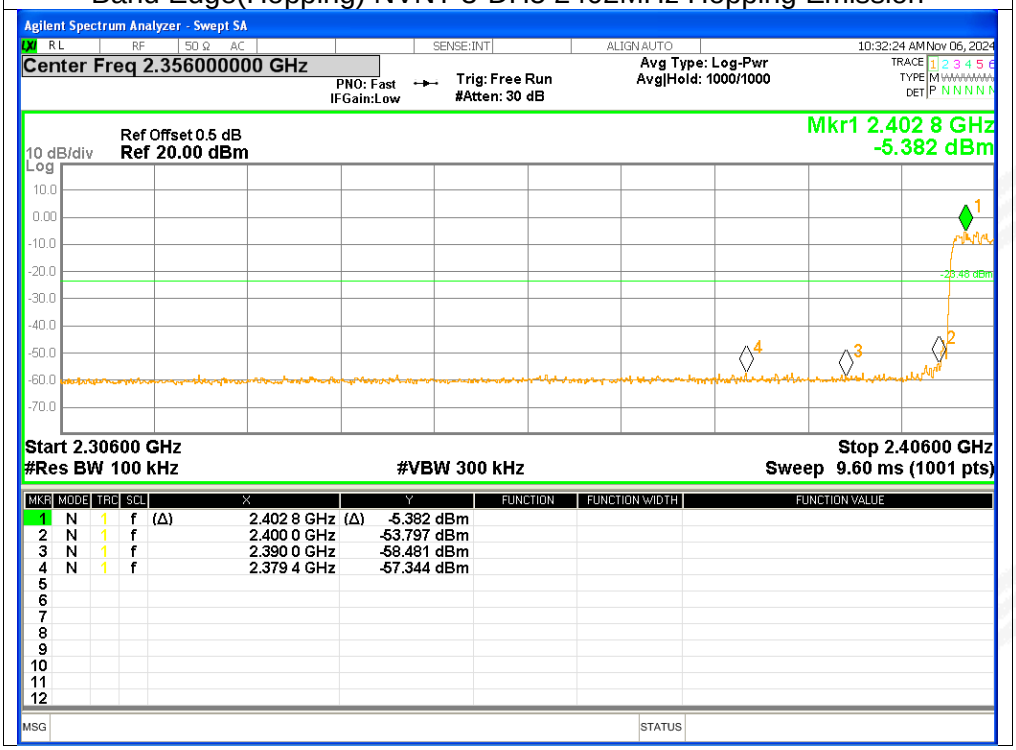
Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Emission



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

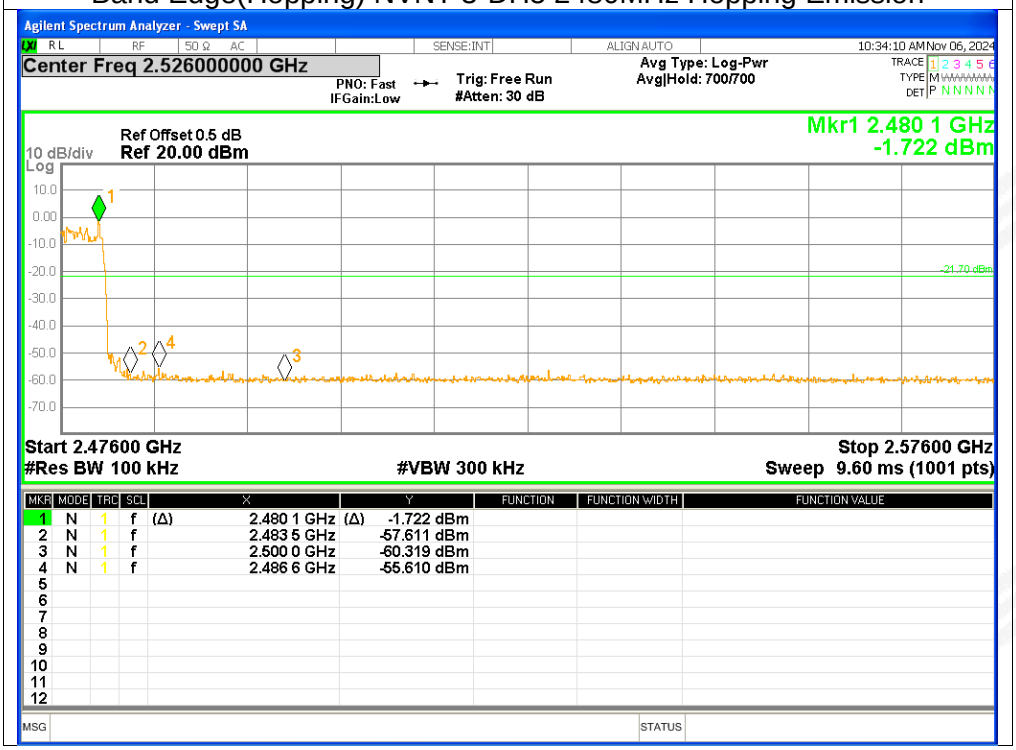


Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Emission



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

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

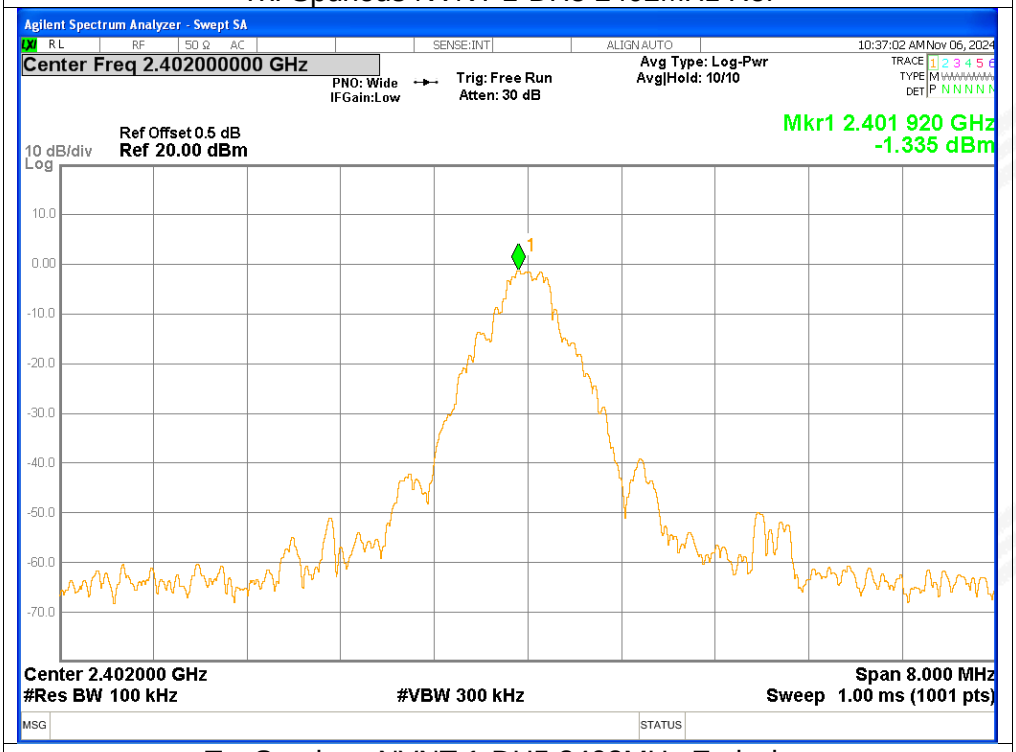


8. Conducted RF Spurious Emission

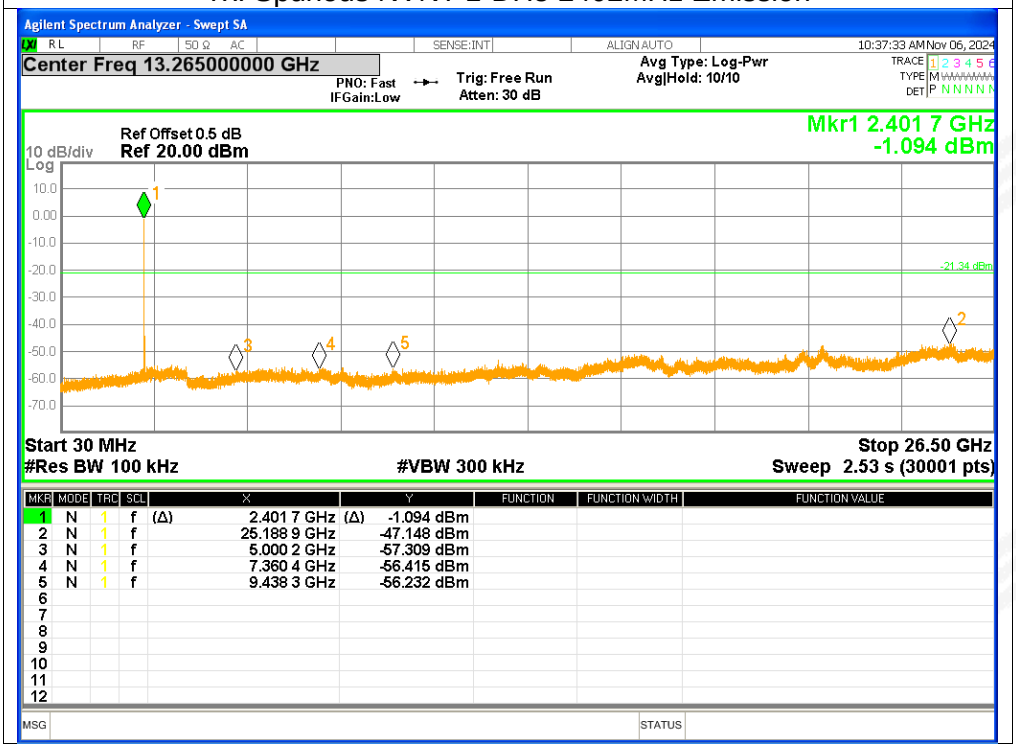
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	-45.81	<=-20	Pass
NVNT	1-DH5	2441	-46.64	<=-20	Pass
NVNT	1-DH5	2480	-47.53	<=-20	Pass
NVNT	2-DH5	2402	-43.86	<=-20	Pass
NVNT	2-DH5	2441	-42.73	<=-20	Pass
NVNT	2-DH5	2480	-41.43	<=-20	Pass
NVNT	3-DH5	2402	-44.11	<=-20	Pass
NVNT	3-DH5	2441	-43.98	<=-20	Pass
NVNT	3-DH5	2480	-44.89	<=-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ref



Tx. Spurious NVNT 1-DH5 2402MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.401 7 GHz	(Δ) -1.094 dBm			
2	N	1	f	25.188 9 GHz	-47.148 dBm			
3	N	1	f	5.000 2 GHz	-57.309 dBm			
4	N	1	f	7.360 4 GHz	-56.415 dBm			
5	N	1	f	9.438 3 GHz	-56.232 dBm			
6								
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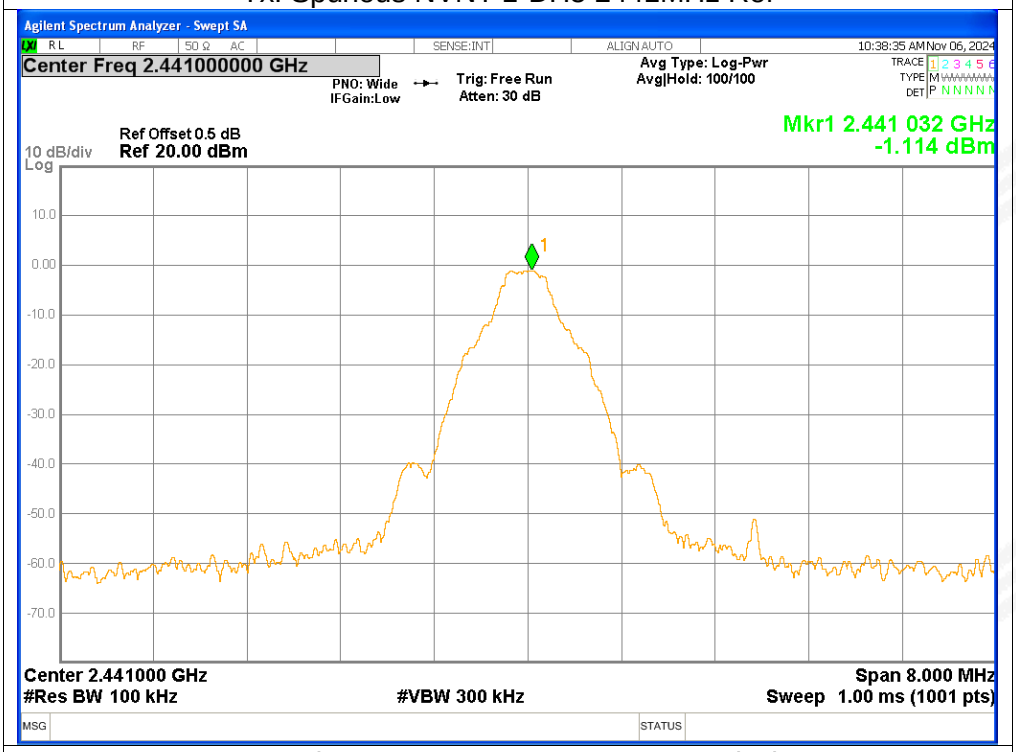
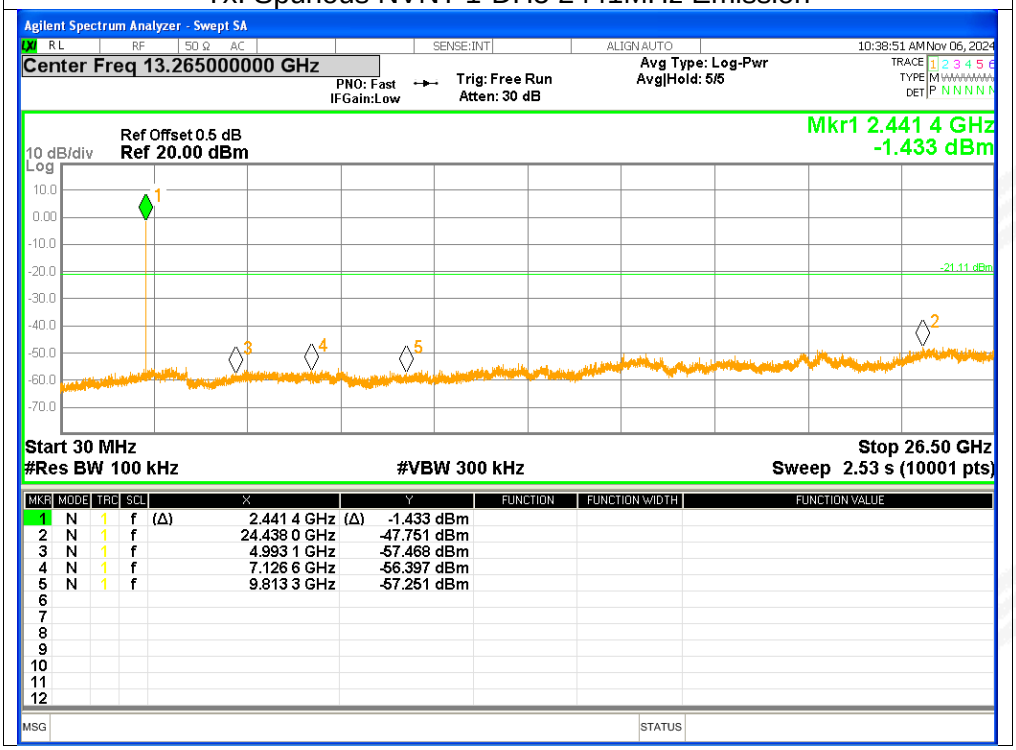
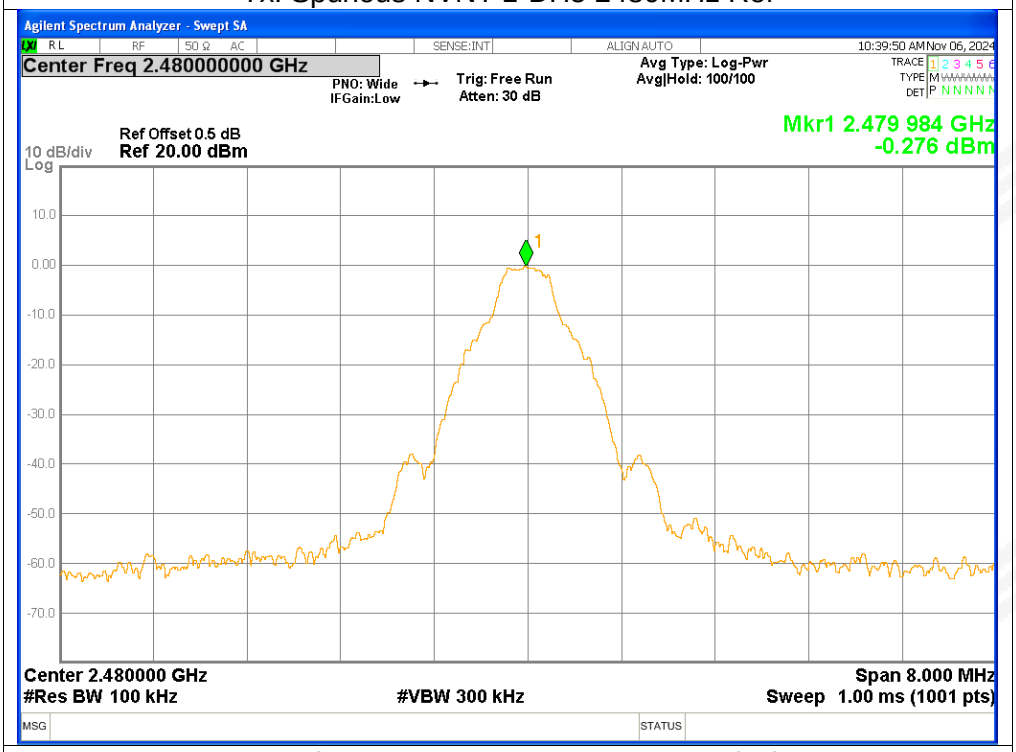
Tx. Spurious NVNT 1-DH5 2441MHz Ref



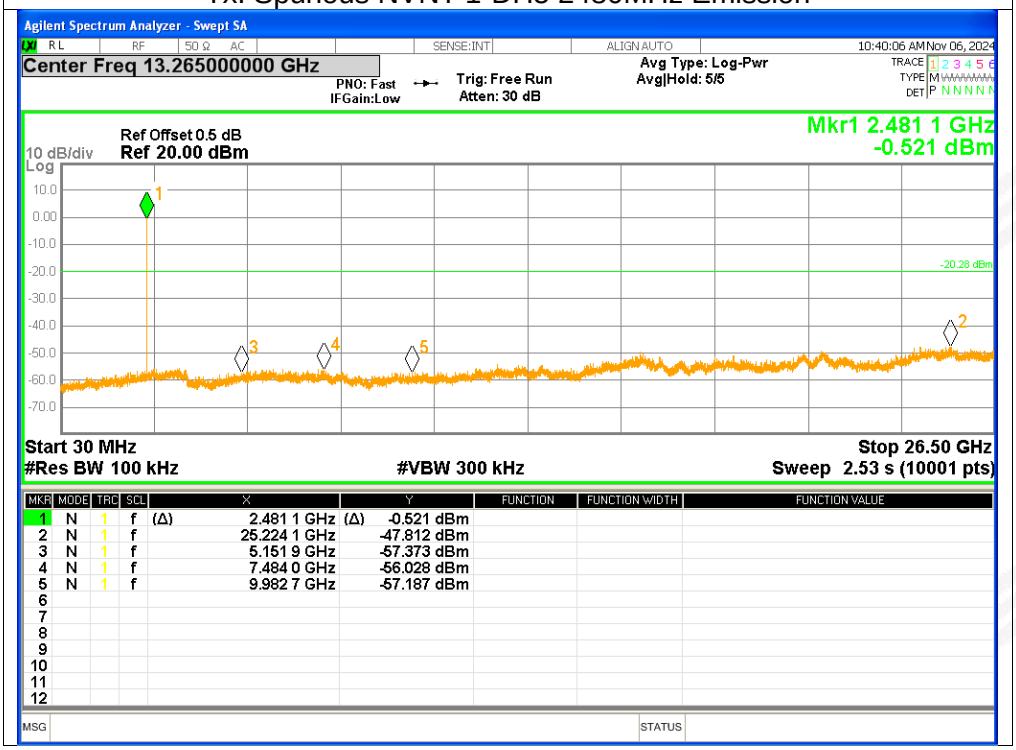
Tx. Spurious NVNT 1-DH5 2441MHz Emission



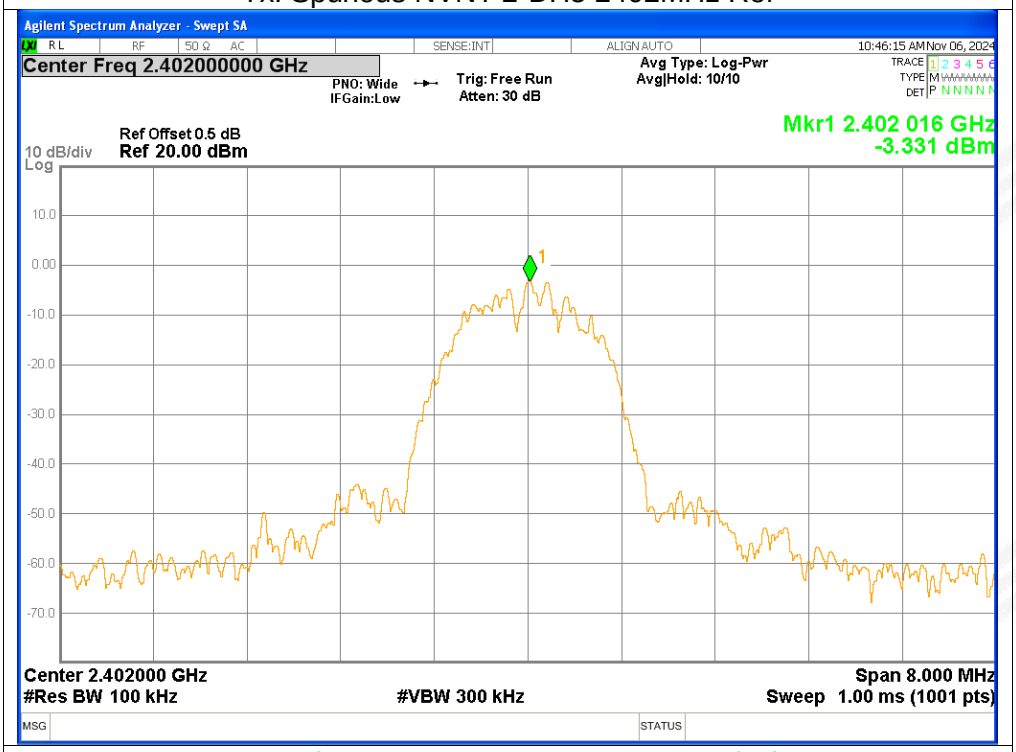
Tx. Spurious NVNT 1-DH5 2480MHz Ref



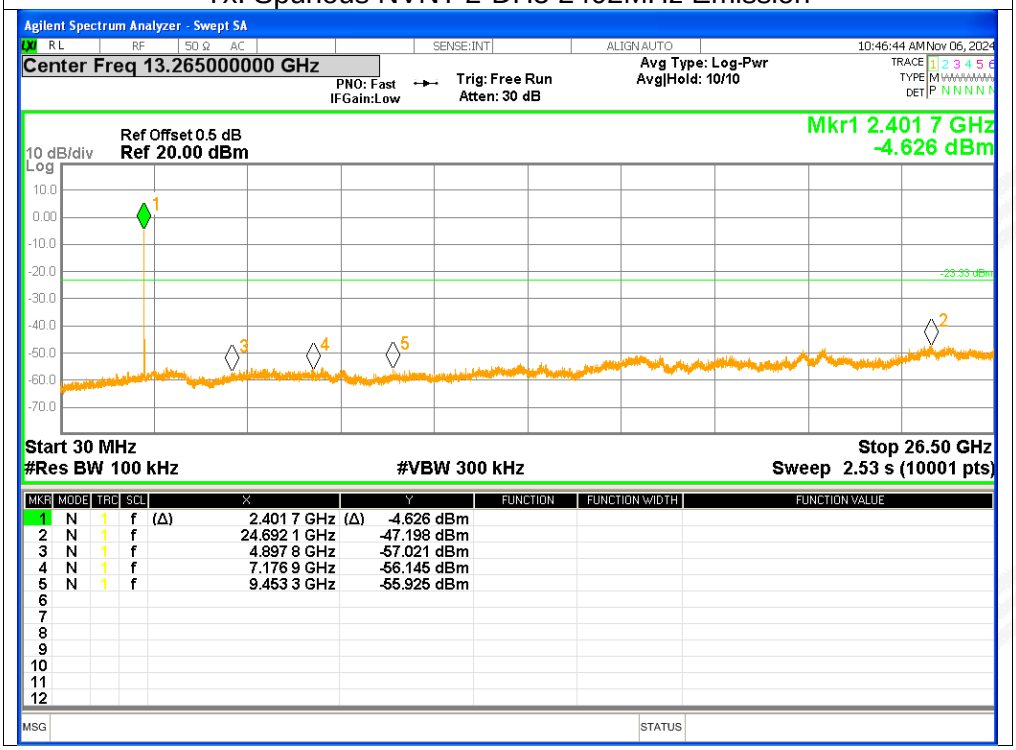
Tx. Spurious NVNT 1-DH5 2480MHz Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ref



Tx. Spurious NVNT 2-DH5 2402MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.401 7 GHz	(Δ) -4.626 dBm			
2	N	1	f	24.692 1 GHz	-47.198 dBm			
3	N	1	f	4.897 8 GHz	-57.021 dBm			
4	N	1	f	7.176 9 GHz	-56.145 dBm			
5	N	1	f	9.453 3 GHz	-55.925 dBm			
6								
7								
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9								
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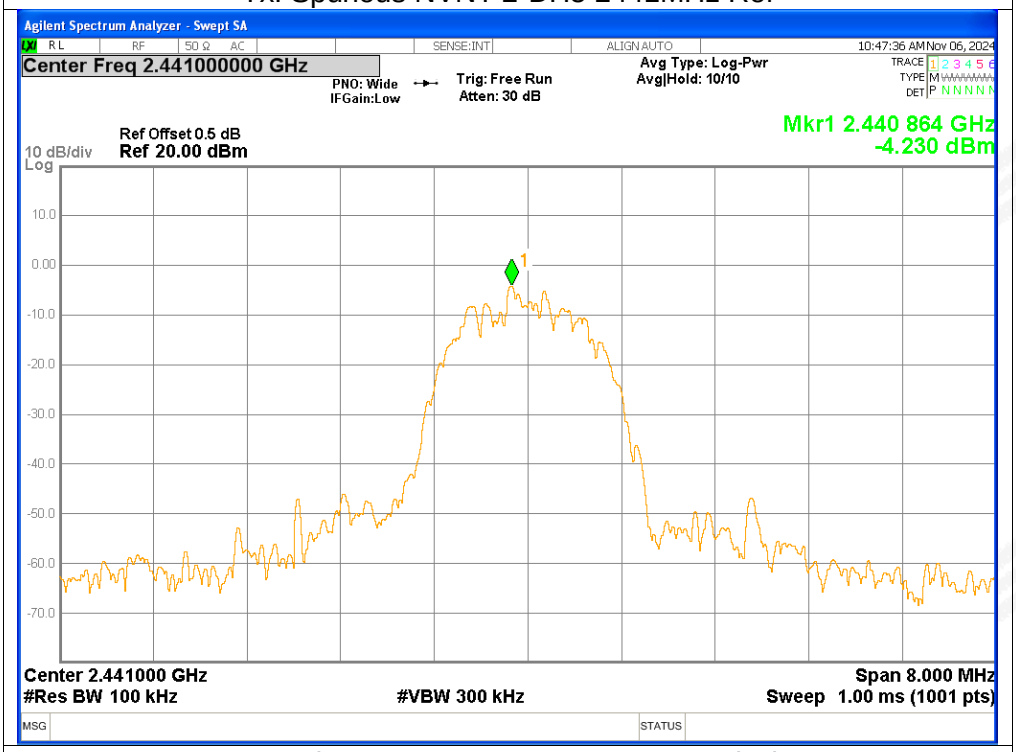
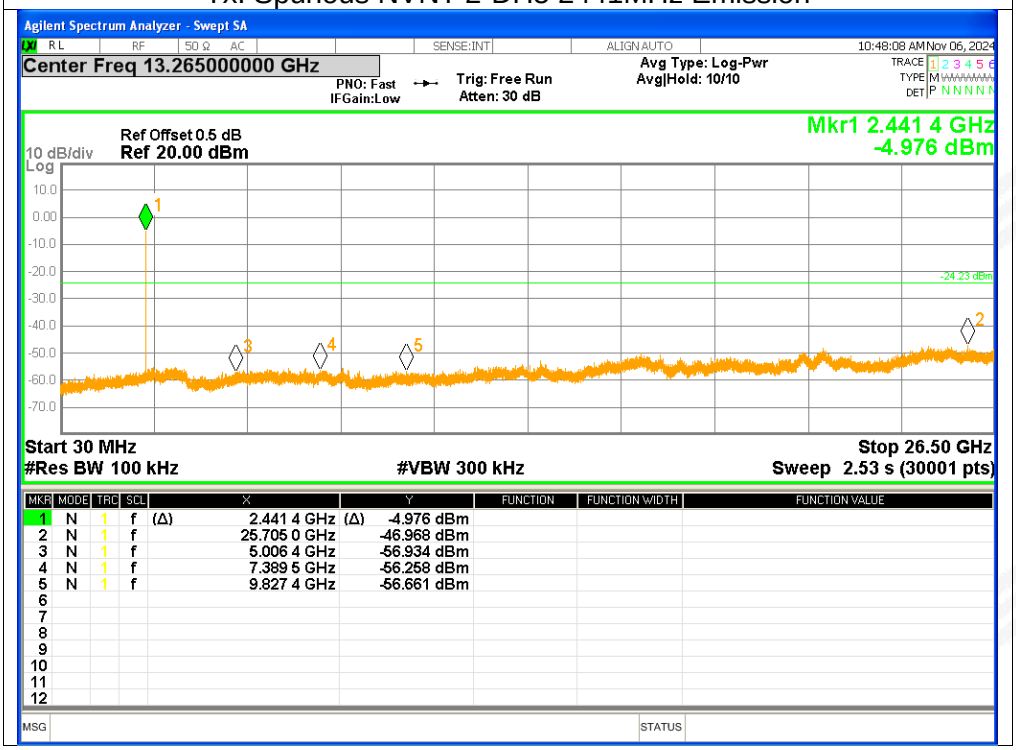
Tx. Spurious NVNT 2-DH5 2441MHz Ref



Tx. Spurious NVNT 2-DH5 2441MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.441 4 GHz	(Δ) -4.976 dBm			
2	N	1	f	25.705 0 GHz	-46.968 dBm			
3	N	1	f	5.006 4 GHz	-56.934 dBm			
4	N	1	f	7.389 5 GHz	-56.258 dBm			
5	N	1	f	9.827 4 GHz	-56.661 dBm			
6								
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9								
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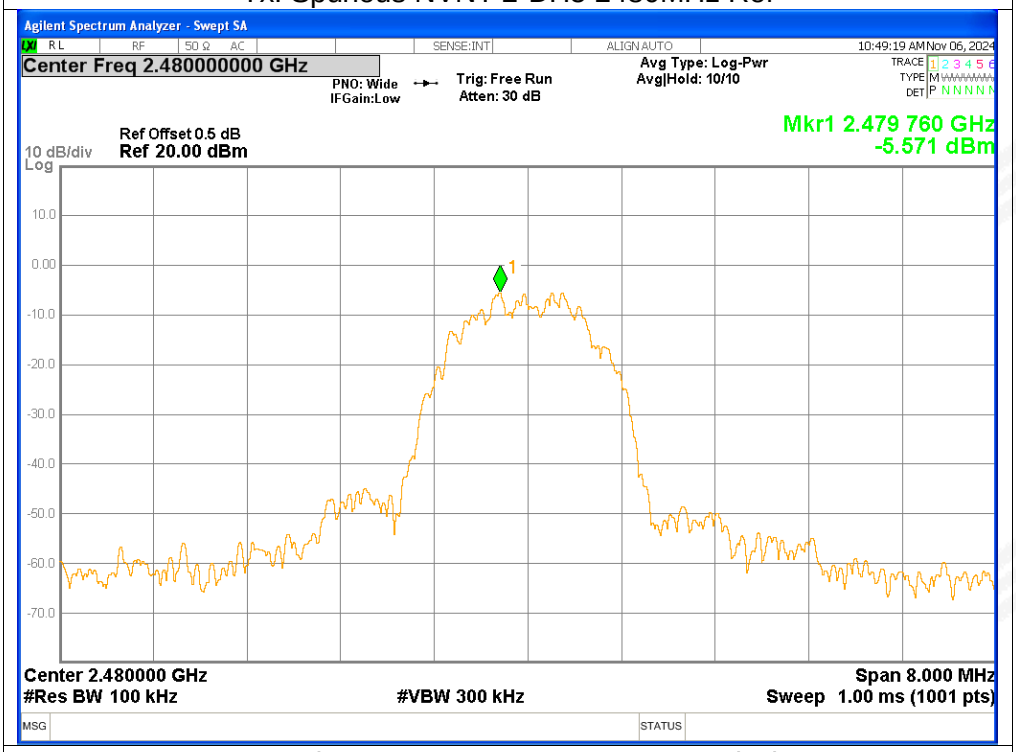
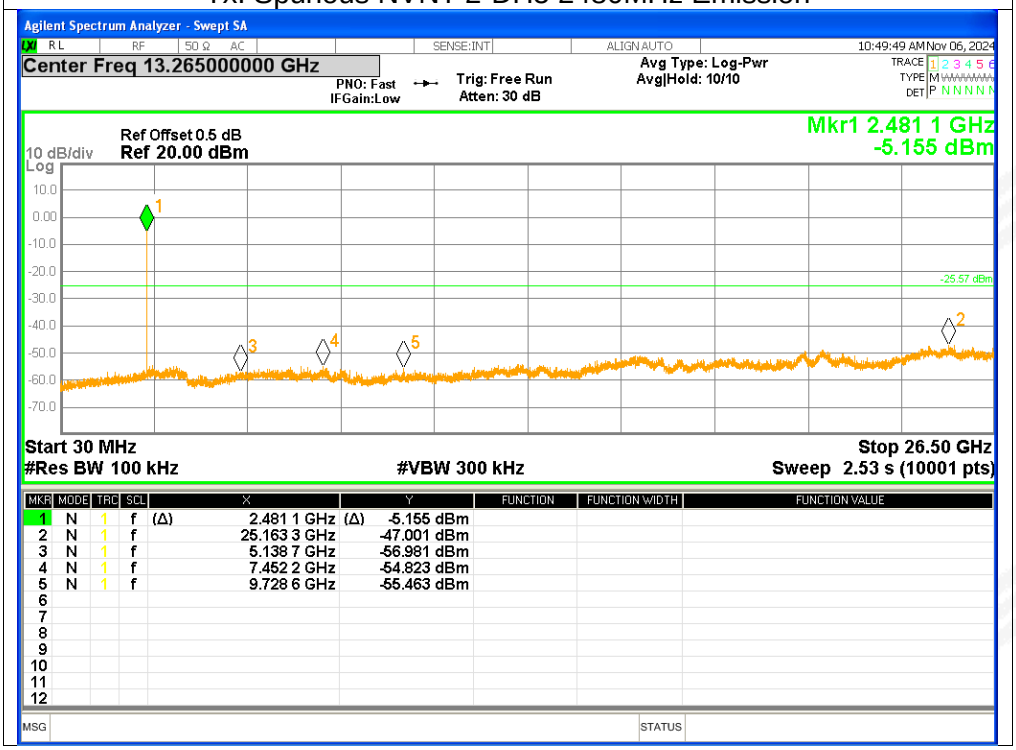
Tx. Spurious NVNT 2-DH5 2480MHz Ref

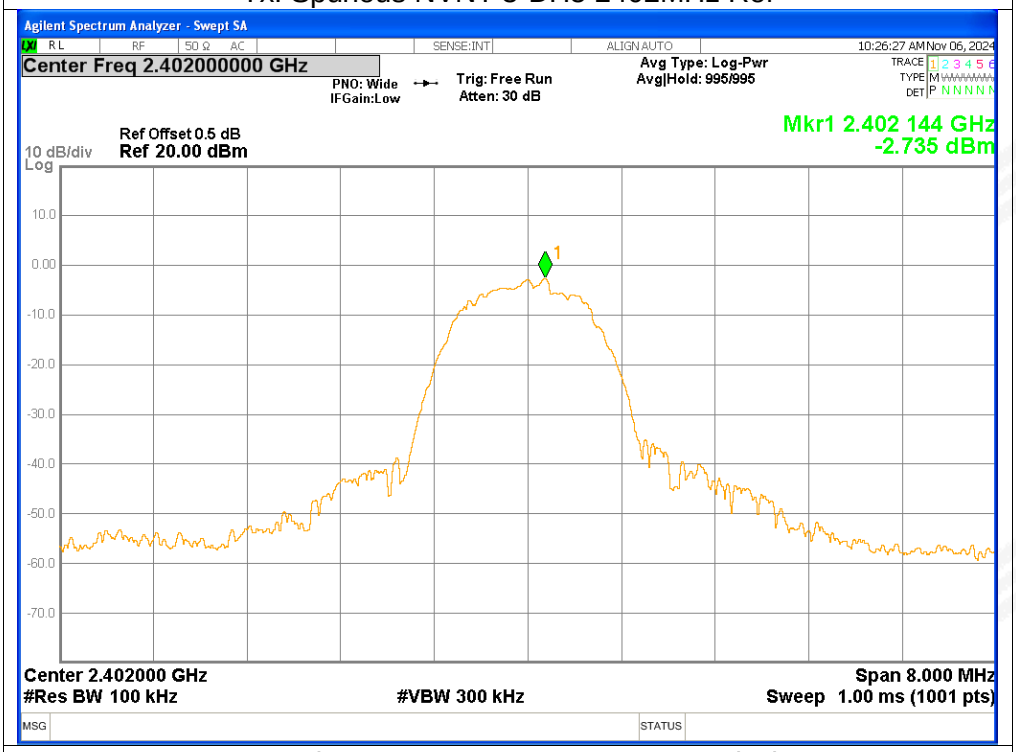


Tx. Spurious NVNT 2-DH5 2480MHz Emission

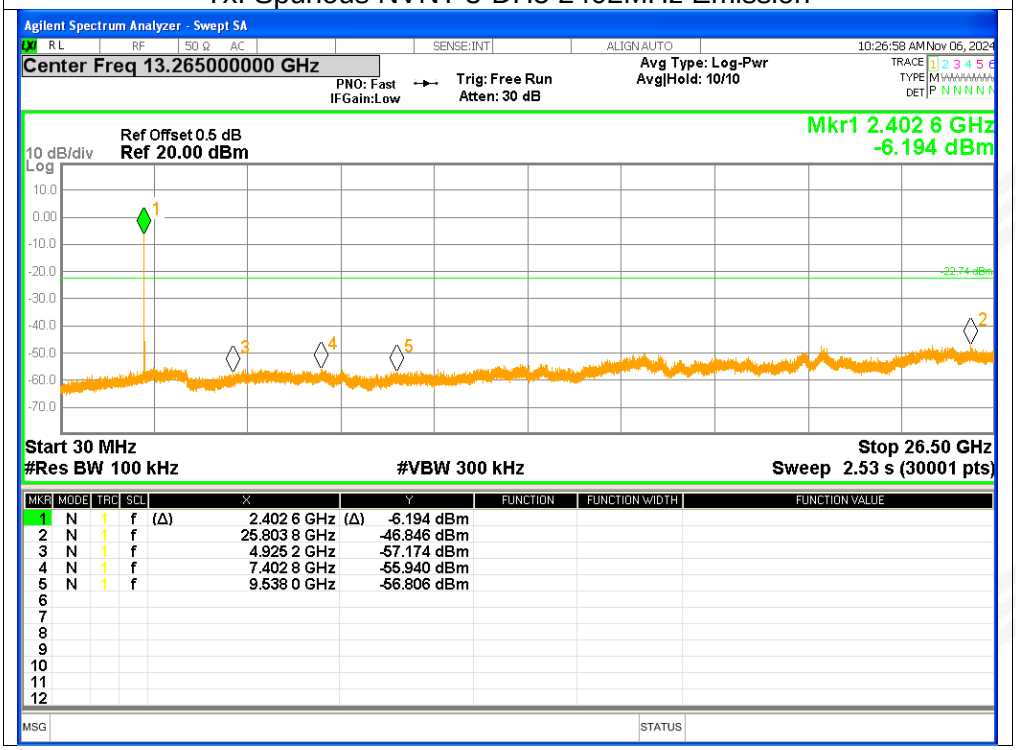


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.481 1 GHz	(Δ) -5.155 dBm			
2	N	1	f	25.163 3 GHz	-47.001 dBm			
3	N	1	f	5.138 7 GHz	-56.981 dBm			
4	N	1	f	7.452 2 GHz	-54.823 dBm			
5	N	1	f	9.728 6 GHz	-55.463 dBm			
6								
7								
8								
9								
10								
11								
12								

Tx. Spurious NVNT 3-DH5 2402MHz Ref

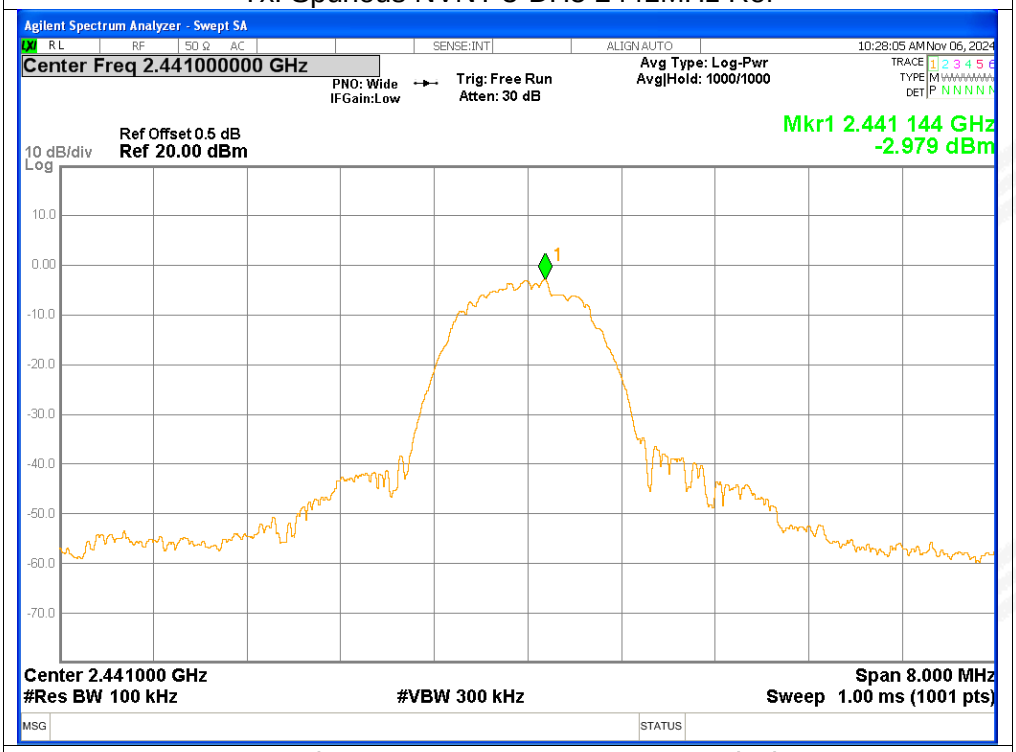


Tx. Spurious NVNT 3-DH5 2402MHz Emission

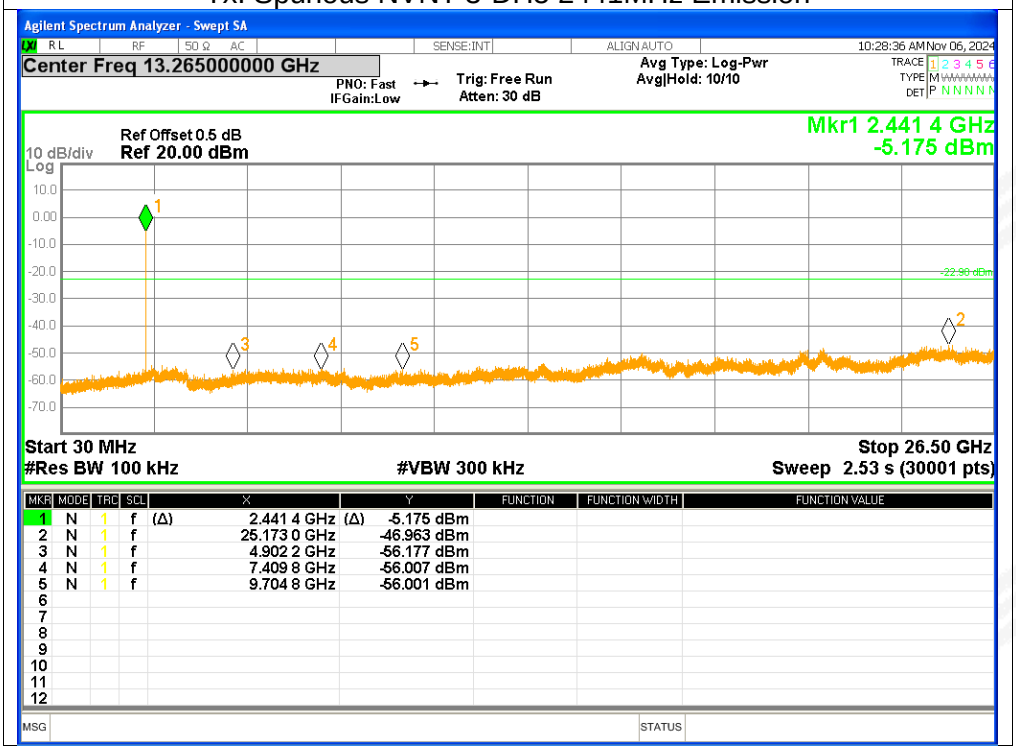


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.402 6 GHz	(Δ) -6.194 dBm			
2	N	1	f	25.803 8 GHz	-46.846 dBm			
3	N	1	f	4.925 2 GHz	-57.174 dBm			
4	N	1	f	7.402 8 GHz	-55.940 dBm			
5	N	1	f	9.538 0 GHz	-56.806 dBm			
6								
7								
8								
9								
10								
11								
12								

Tx. Spurious NVNT 3-DH5 2441MHz Ref



Tx. Spurious NVNT 3-DH5 2441MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.441 4 GHz	(Δ) -5.175 dBm			
2	N	1	f	25.173 0 GHz	-46.963 dBm			
3	N	1	f	4.902 2 GHz	-56.177 dBm			
4	N	1	f	7.409 8 GHz	-56.007 dBm			
5	N	1	f	9.704 8 GHz	-56.001 dBm			
6								
7								
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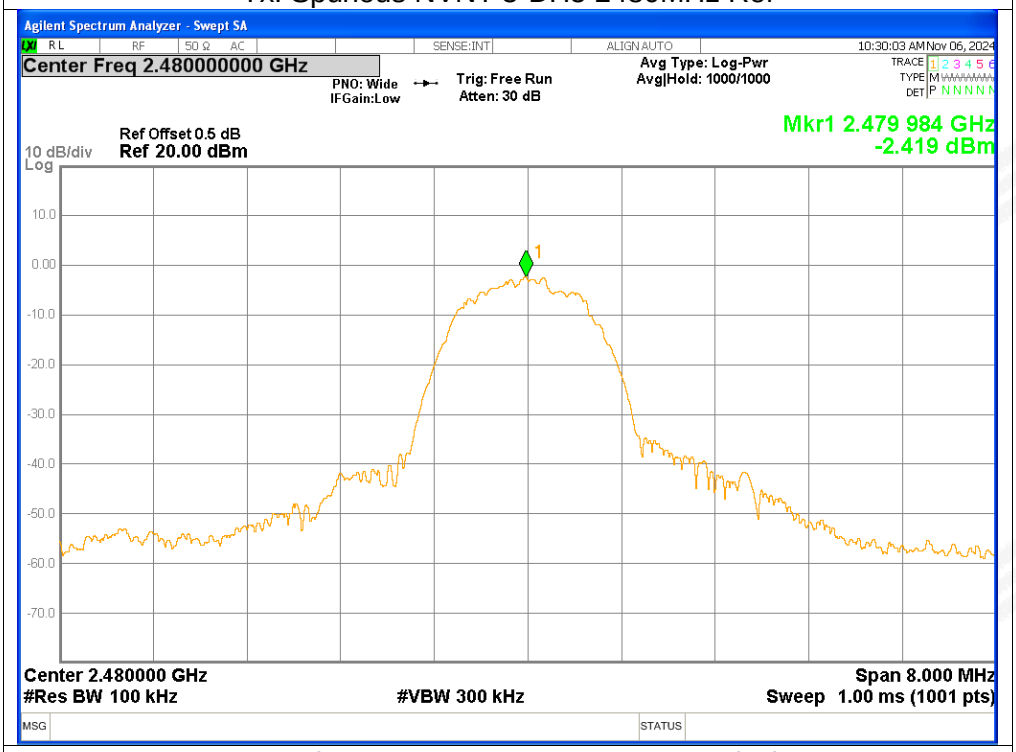
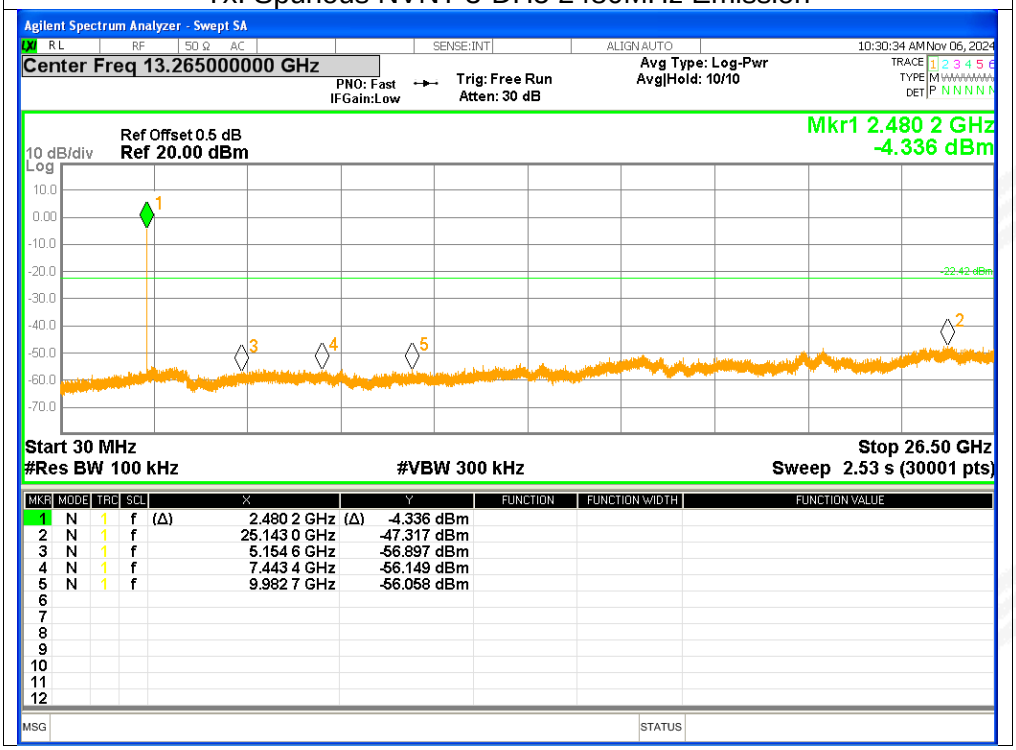
Tx. Spurious NVNT 3-DH5 2480MHz Ref



Tx. Spurious NVNT 3-DH5 2480MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.480 2 GHz	(Δ) -4.336 dBm			
2	N	1	f	25.143 0 GHz	-47.317 dBm			
3	N	1	f	5.154 6 GHz	-56.897 dBm			
4	N	1	f	7.443 4 GHz	-56.149 dBm			
5	N	1	f	9.982 7 GHz	-56.058 dBm			
6								
7								
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10								
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APPENDIX 2-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※