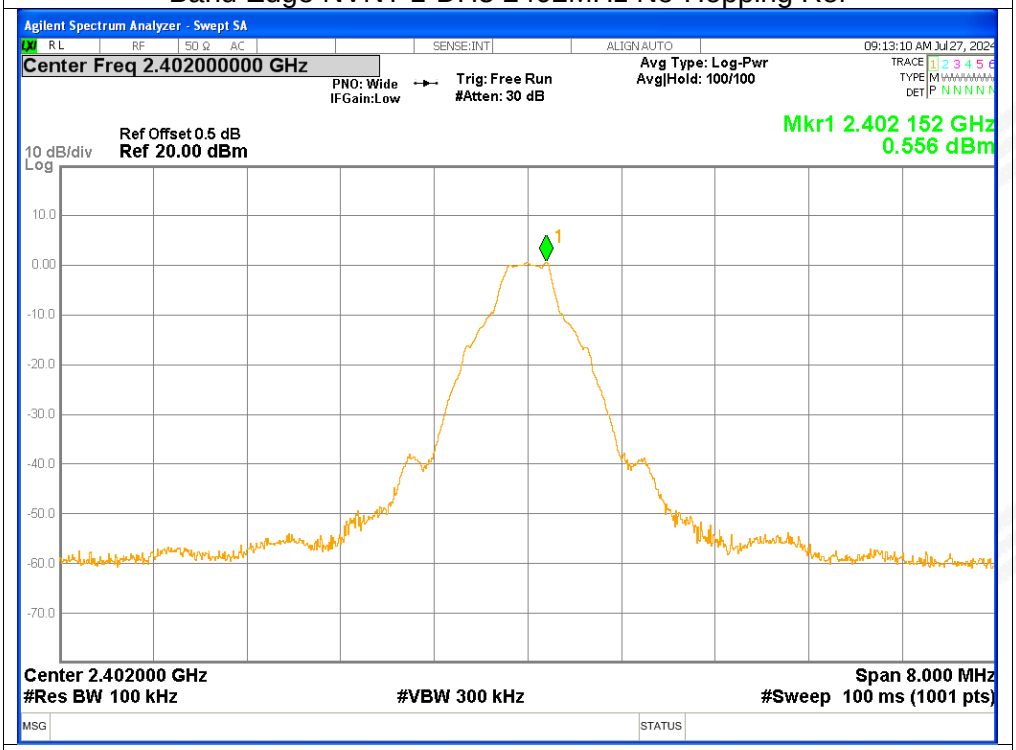
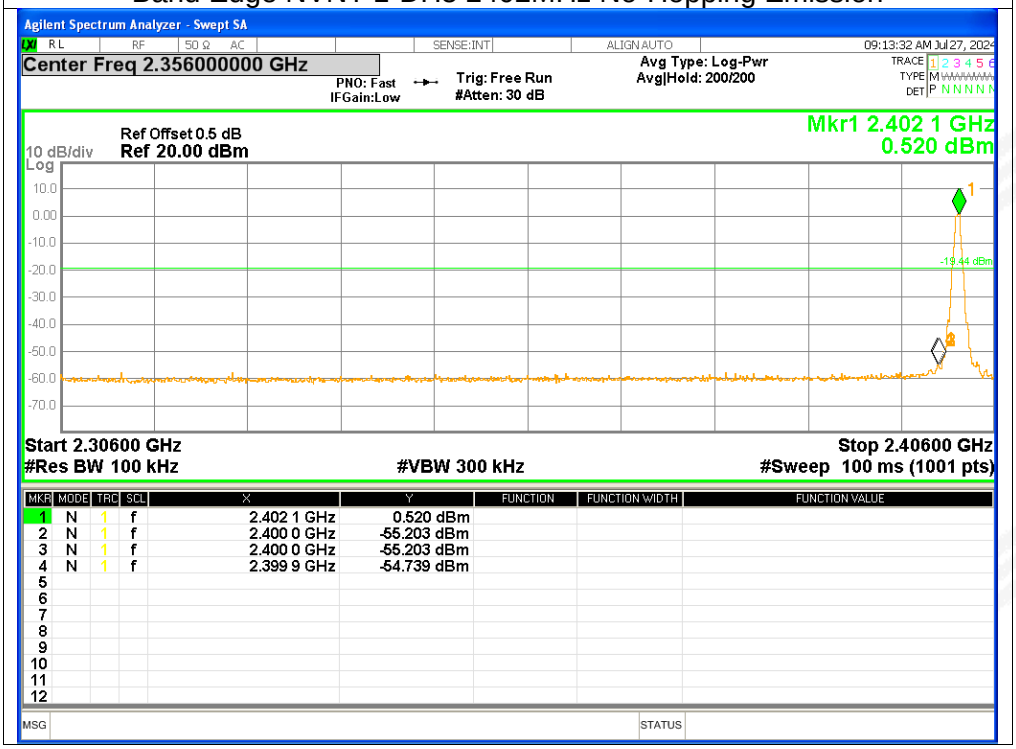
Test Graphs

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

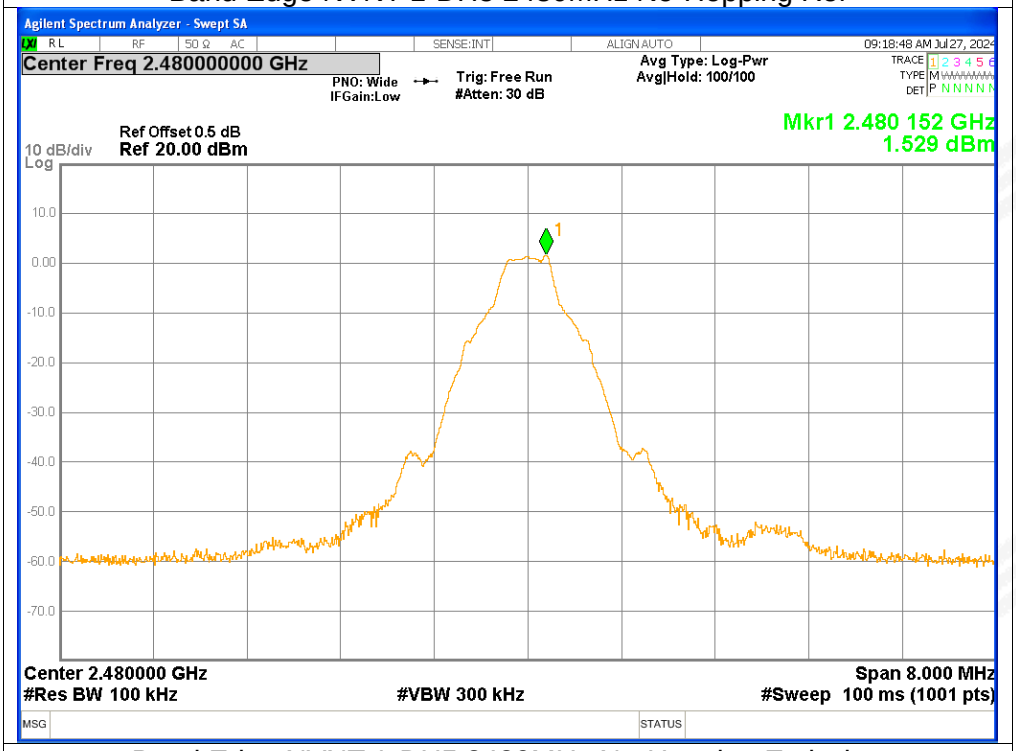


Band Edge NVNT 1-DH5 2402MHz No-Hopping Emission

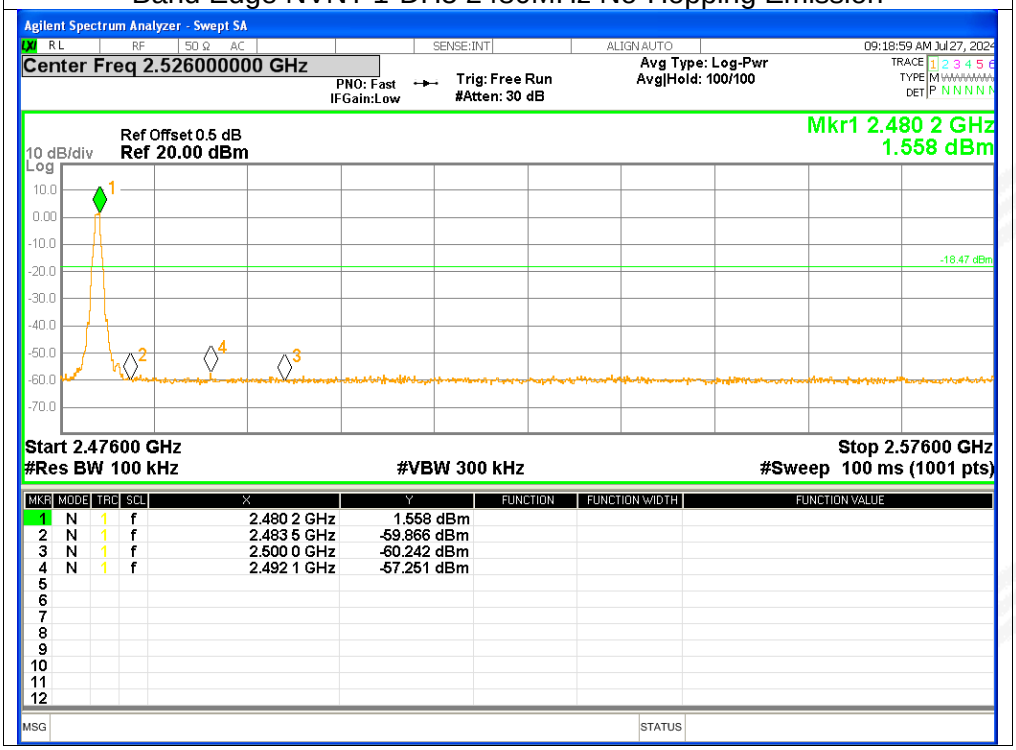


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.402 1 GHz	0.520 dBm			
2	N	1	f	2.400 0 GHz	-55.203 dBm			
3	N	1	f	2.400 0 GHz	-55.203 dBm			
4	N	1	f	2.399 9 GHz	-54.739 dBm			
5								
6								
7								
8								
9								
10								
11								
12								

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

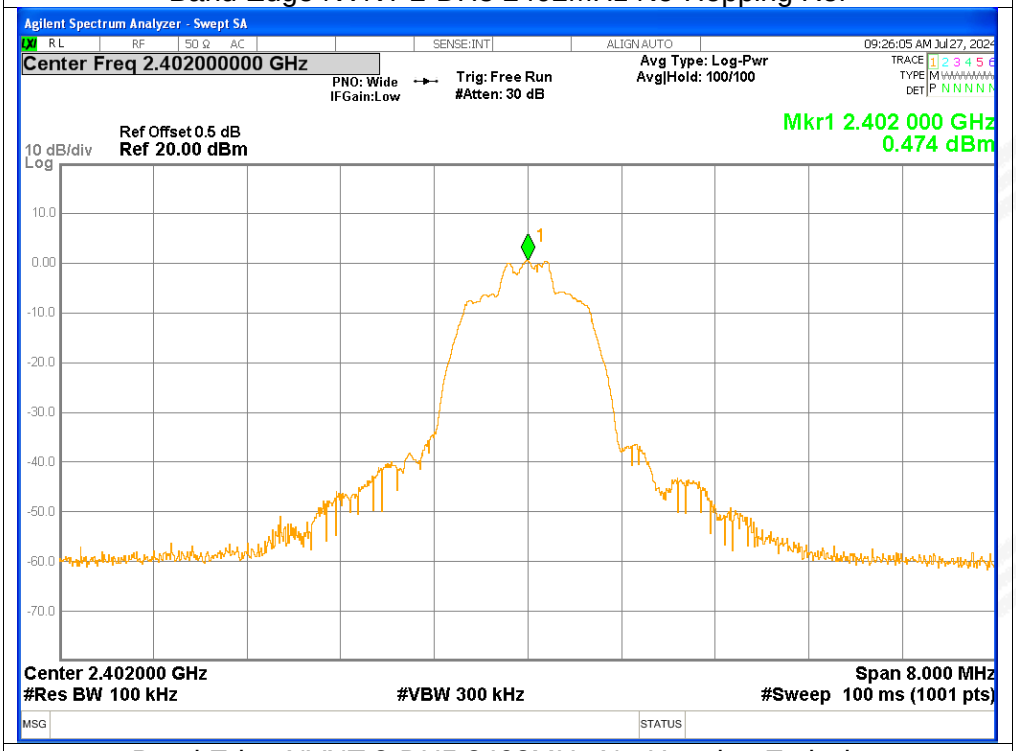


Band Edge NVNT 1-DH5 2480MHz No-Hopping Emission

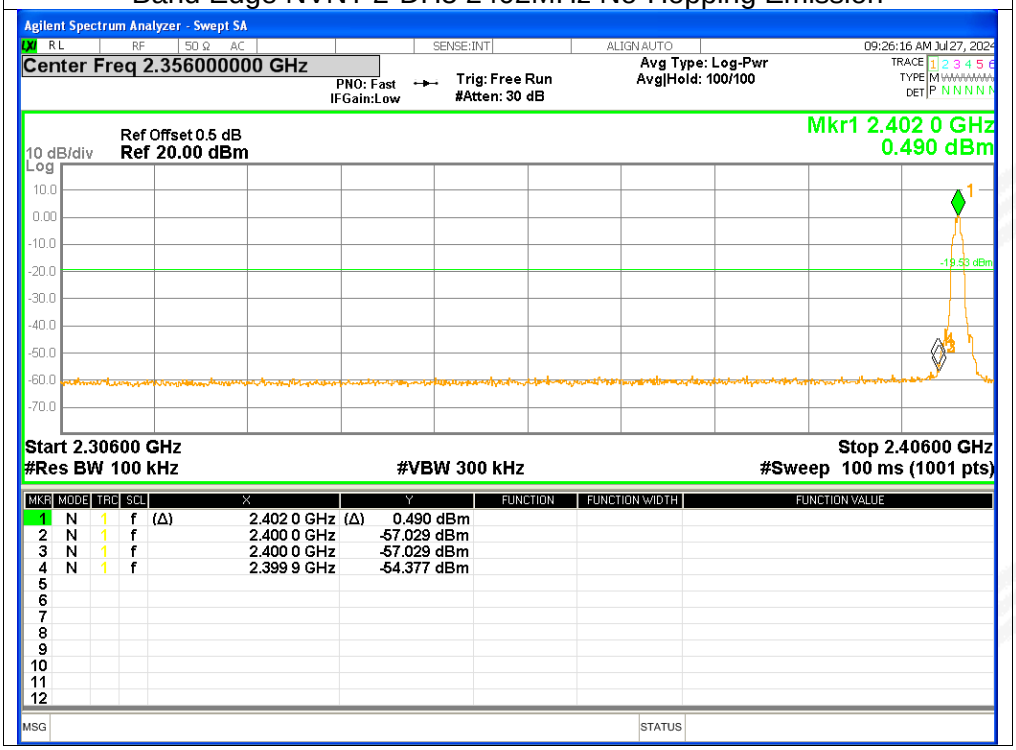


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.480 2 GHz	1.558 dBm			
2	N	1	f	2.483 5 GHz	-59.866 dBm			
3	N	1	f	2.500 0 GHz	-60.242 dBm			
4	N	1	f	2.492 1 GHz	-57.251 dBm			
5								
6								
7								
8								
9								
10								
11								
12								

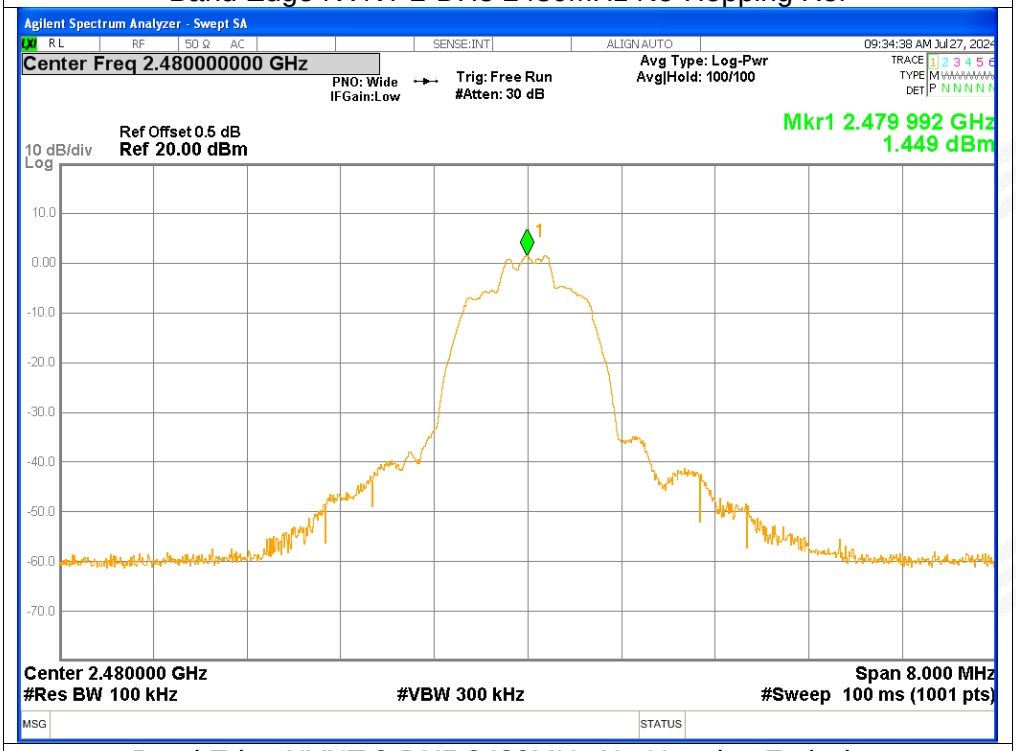
Band Edge NVNT 2-DH5 2402MHz No-Hopping Ref



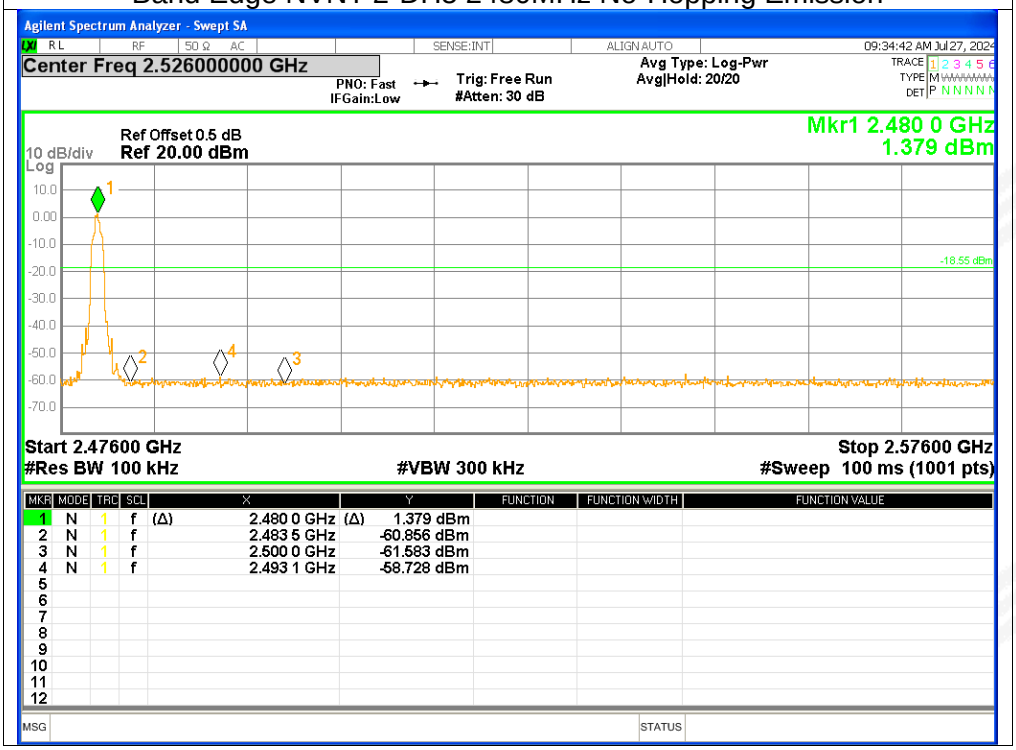
Band Edge NVNT 2-DH5 2402MHz No-Hopping Emission



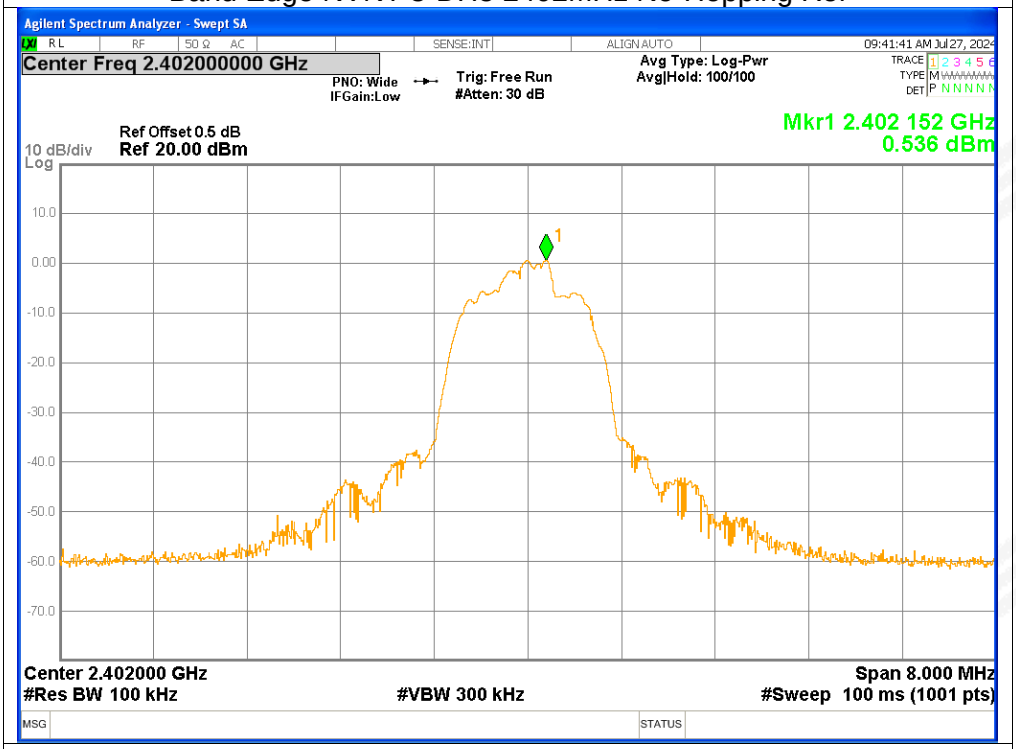
Band Edge NVNT 2-DH5 2480MHz No-Hopping Ref



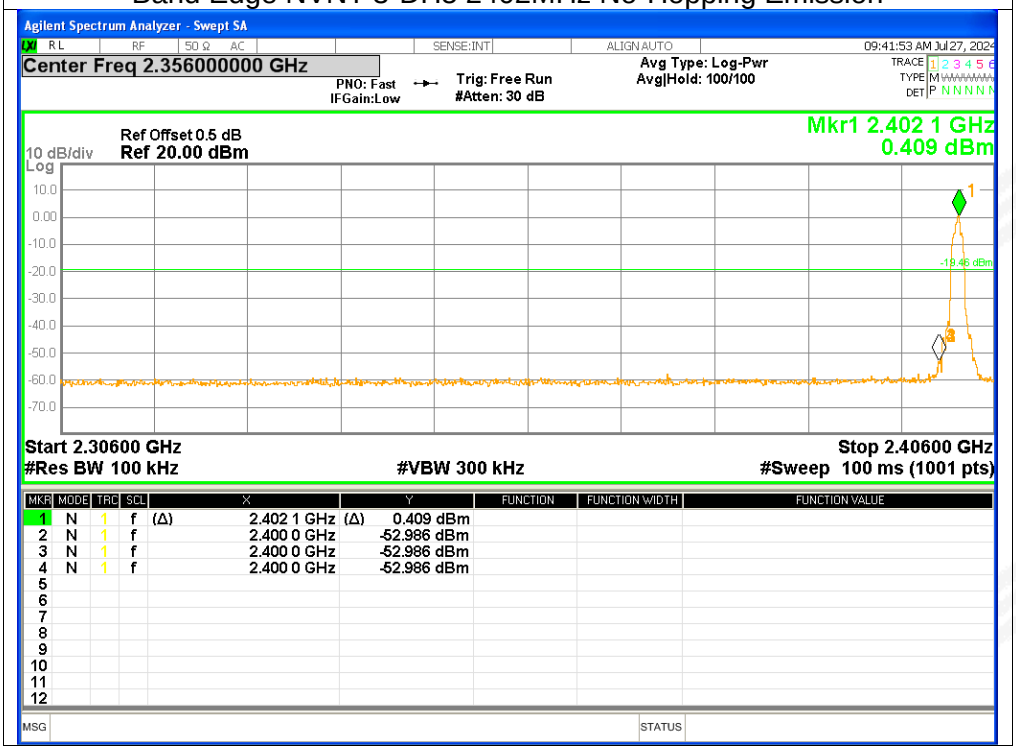
Band Edge NVNT 2-DH5 2480MHz No-Hopping Emission



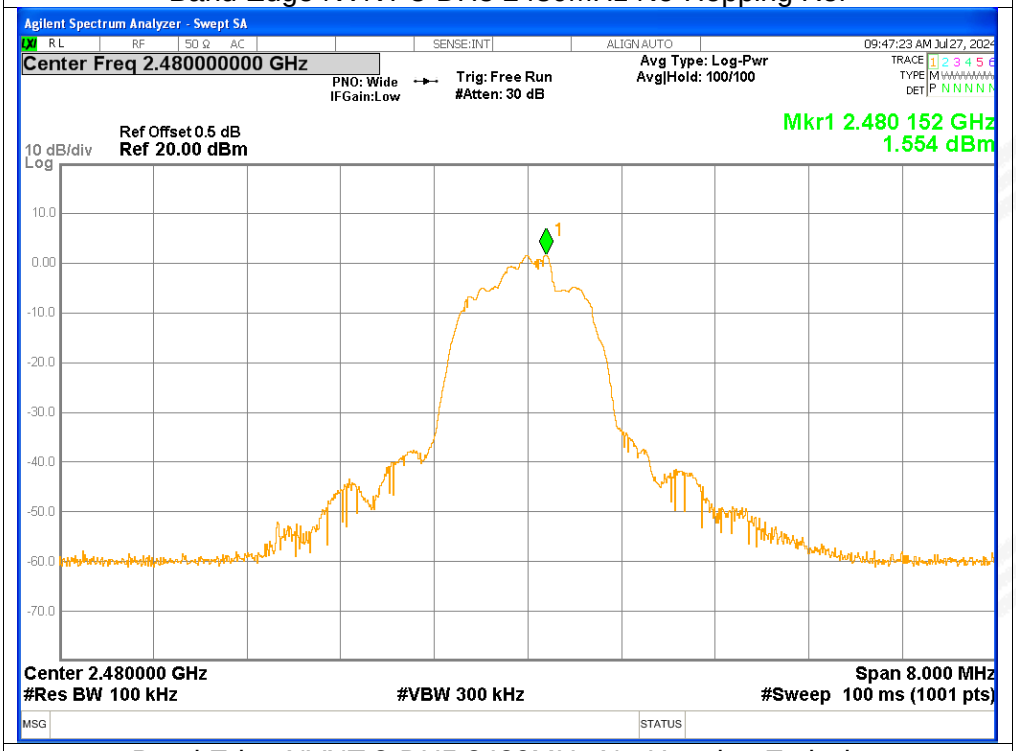
Band Edge NVNT 3-DH5 2402MHz No-Hopping Ref



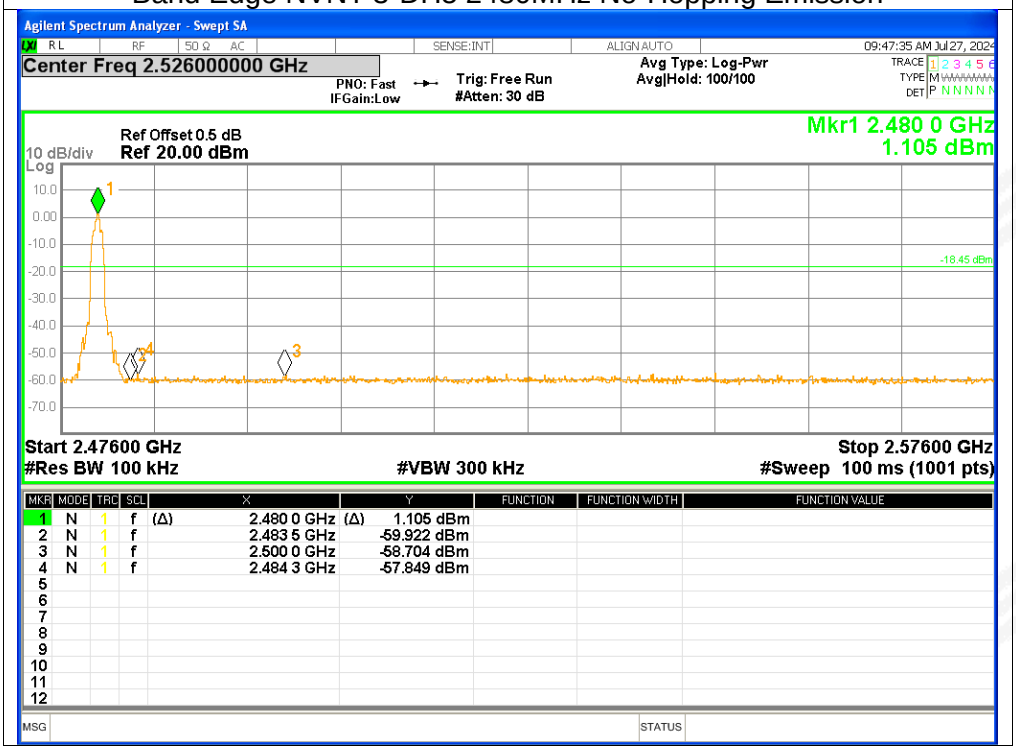
Band Edge NVNT 3-DH5 2402MHz No-Hopping Emission



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



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

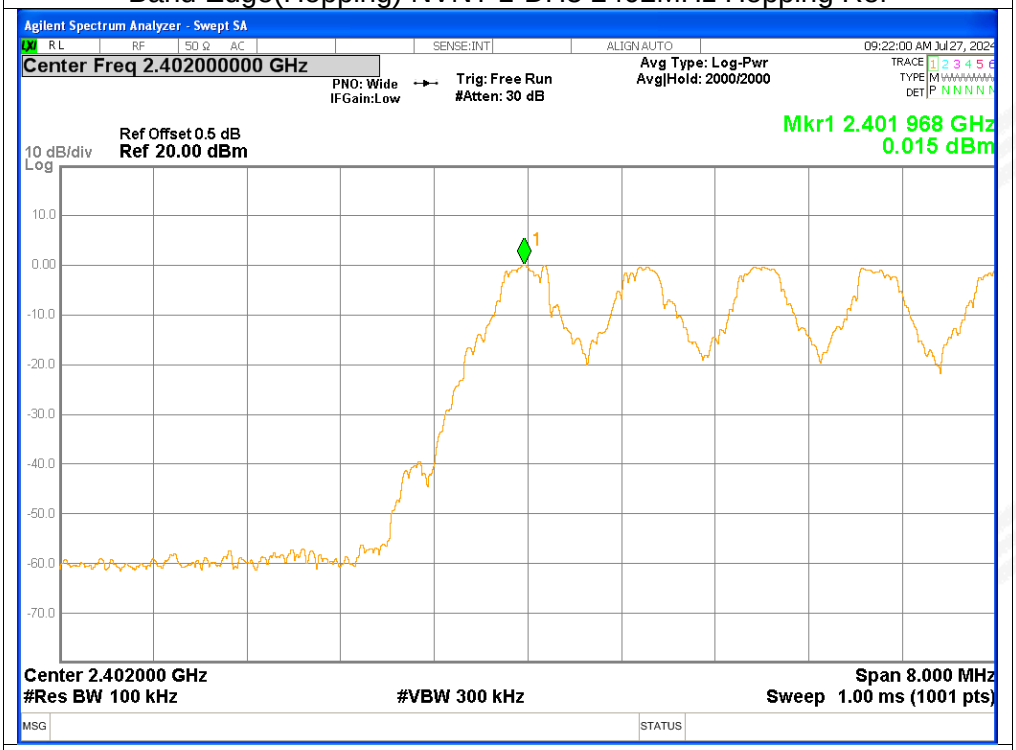


7. Band Edge(Hopping)

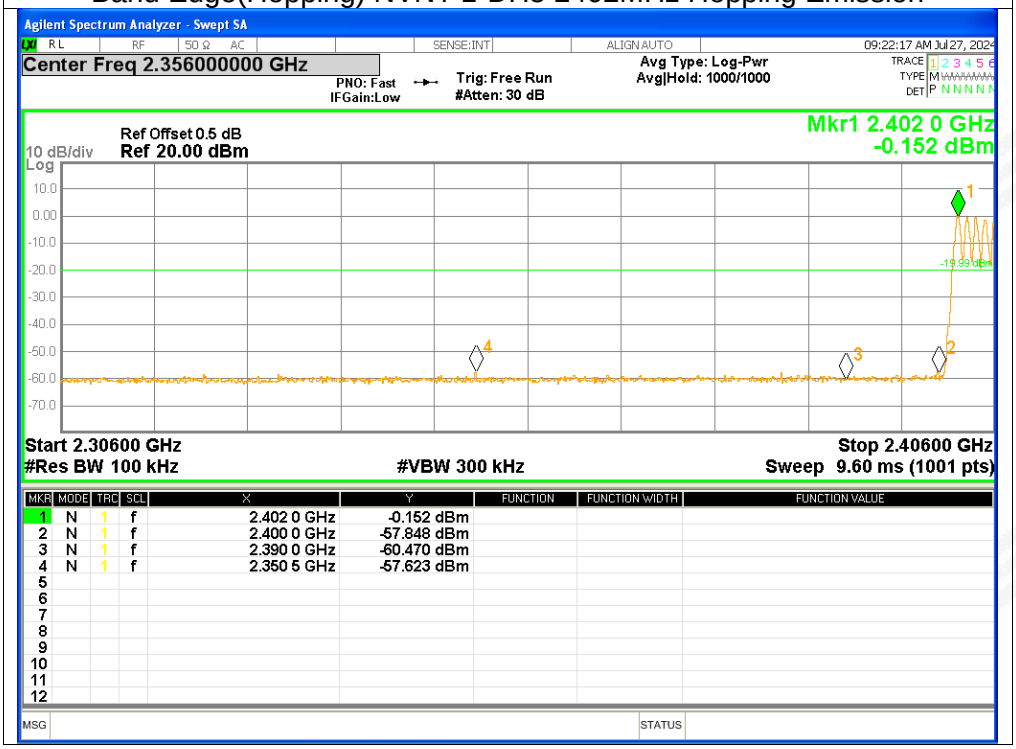
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Hopping	-57.64	<=-20	Pass
NVNT	1-DH5	2480	Hopping	-58.84	<=-20	Pass
NVNT	2-DH5	2402	Hopping	-57	<=-20	Pass
NVNT	2-DH5	2480	Hopping	-58.66	<=-20	Pass
NVNT	3-DH5	2402	Hopping	-54.27	<=-20	Pass
NVNT	3-DH5	2480	Hopping	-57.49	<=-20	Pass

Test Graphs

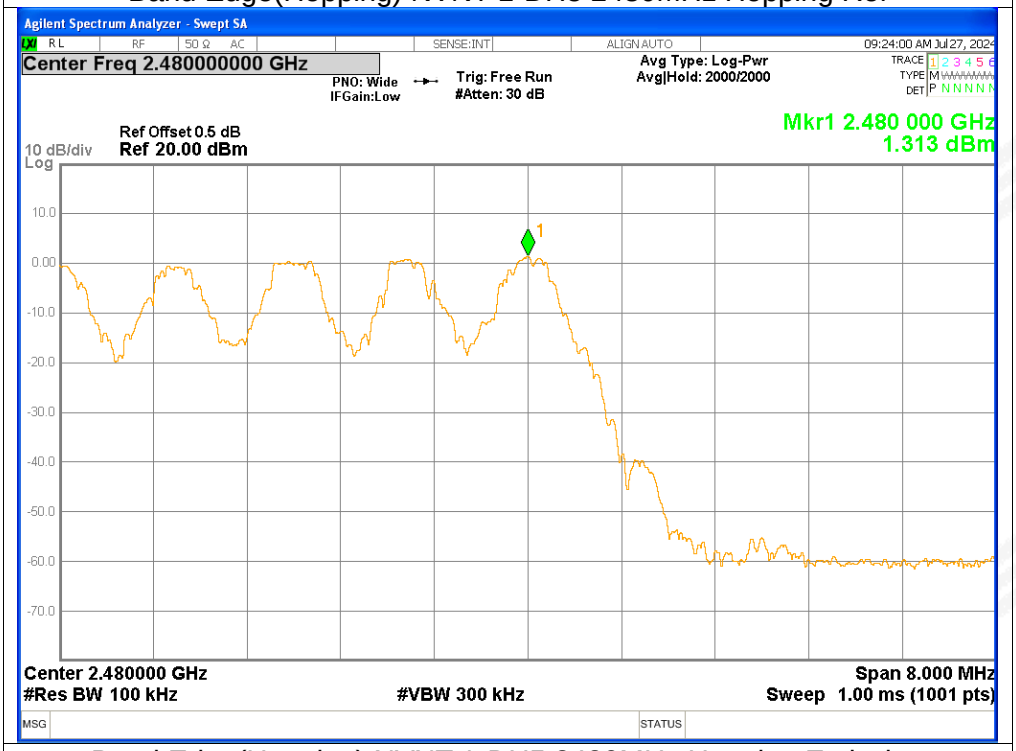
Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Ref



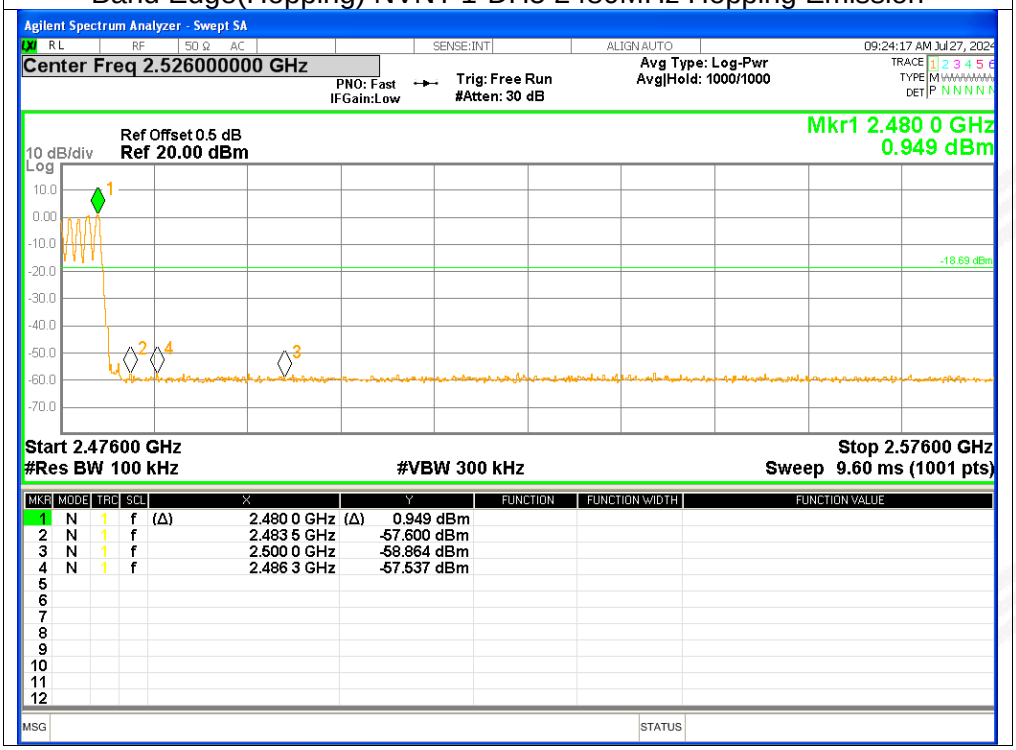
Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Emission



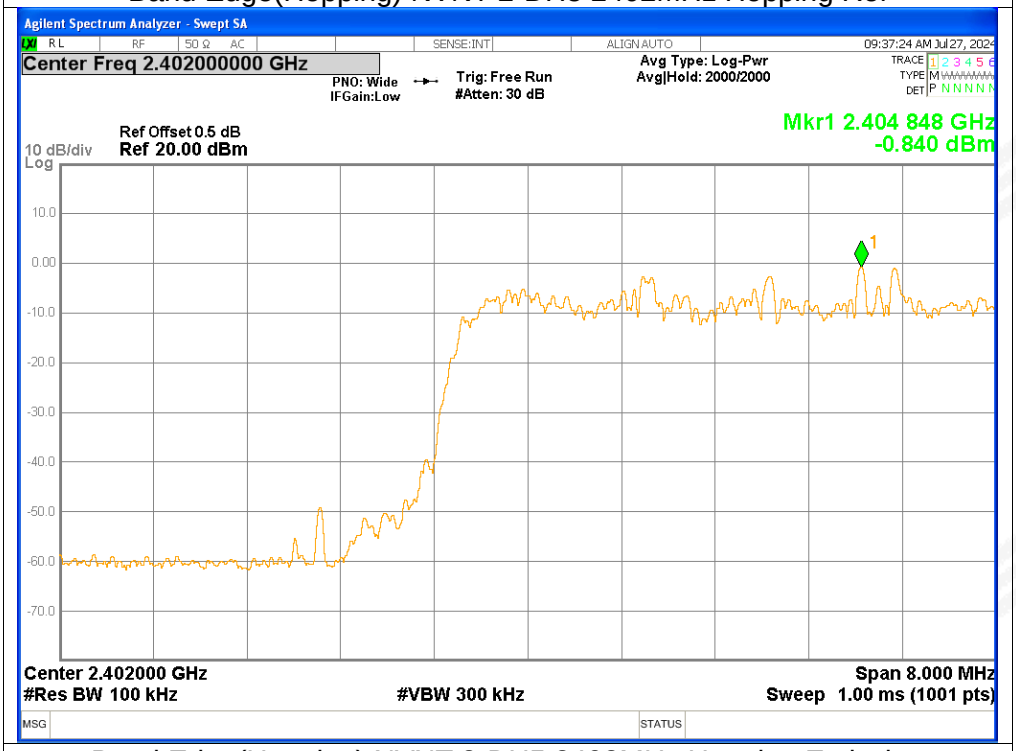
Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Ref



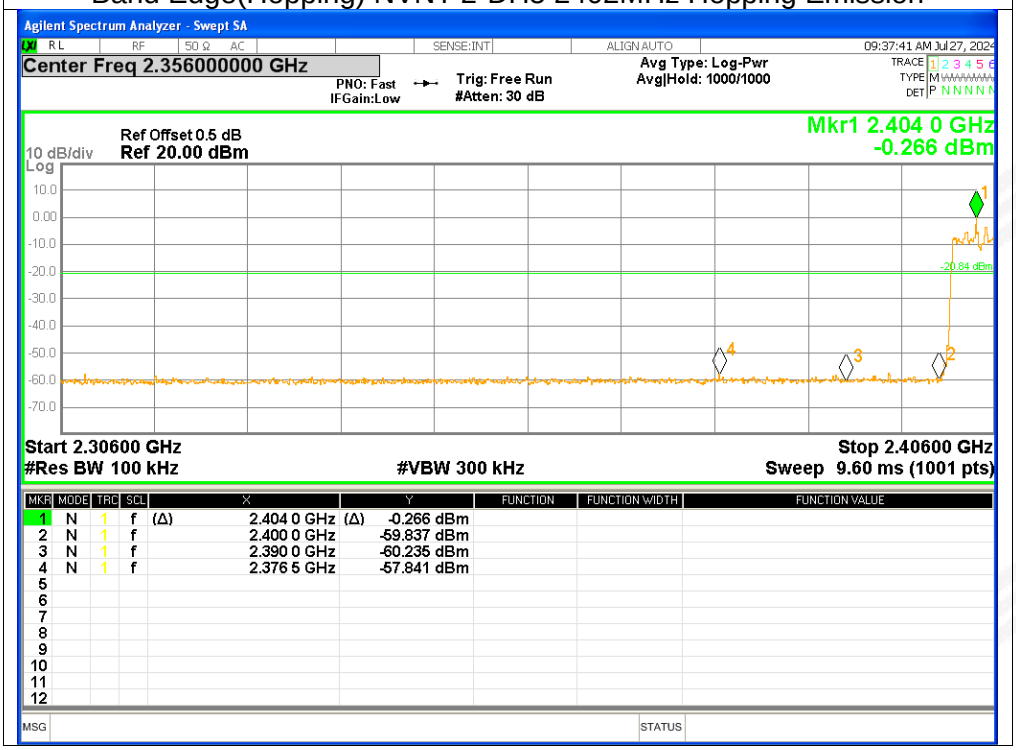
Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Emission



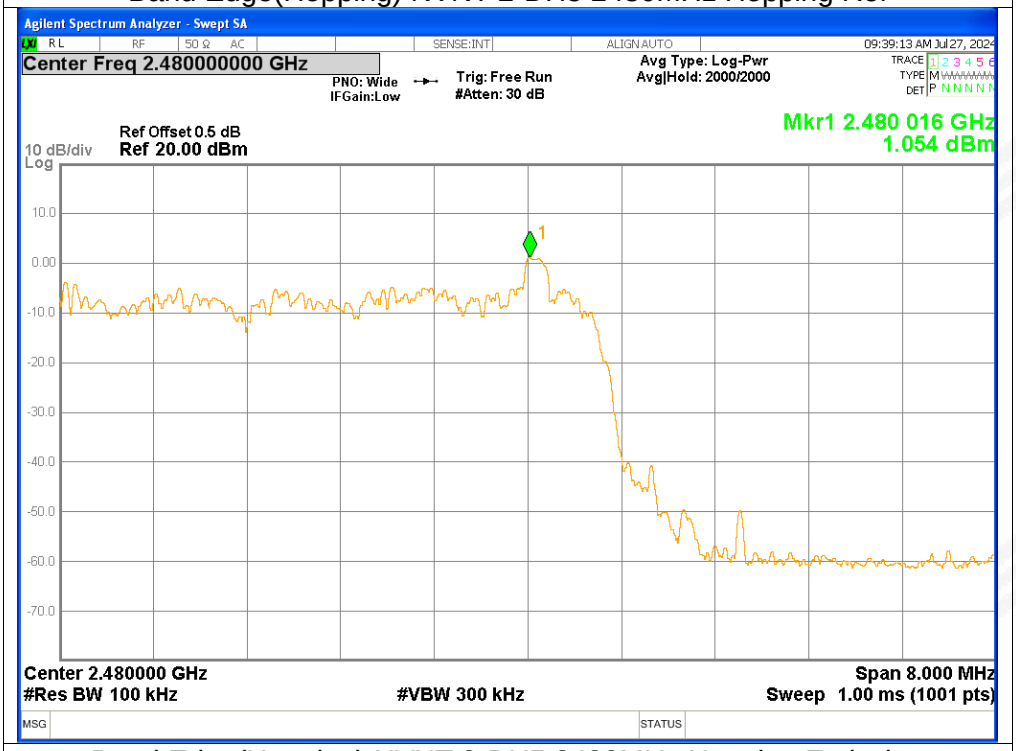
Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Ref



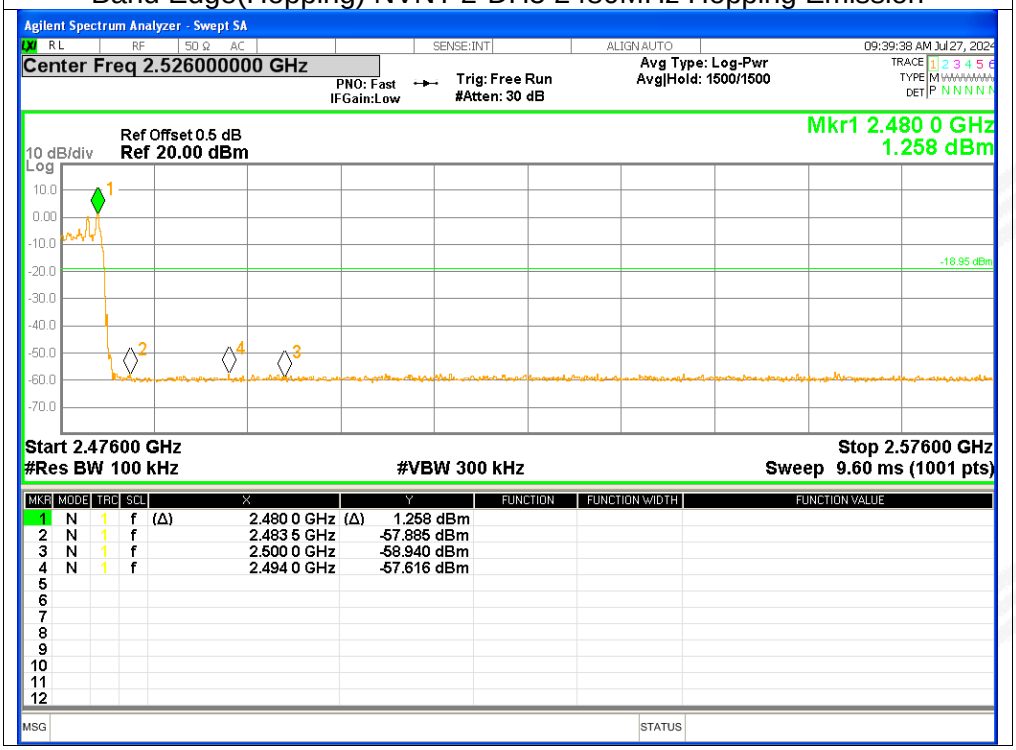
Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Emission



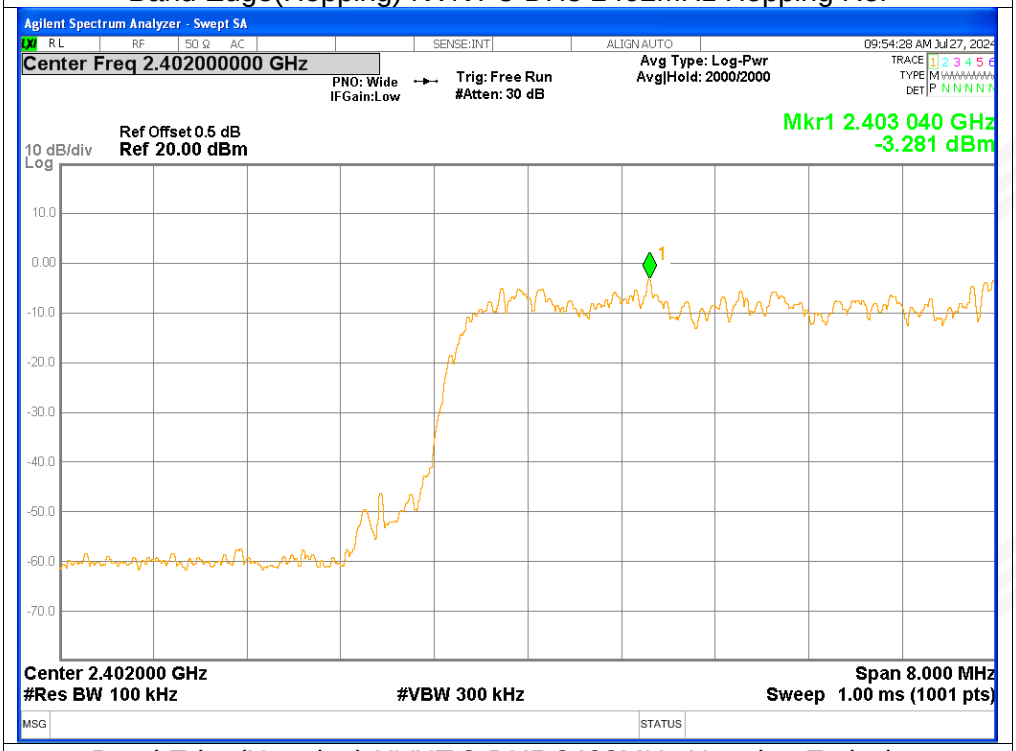
Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Ref



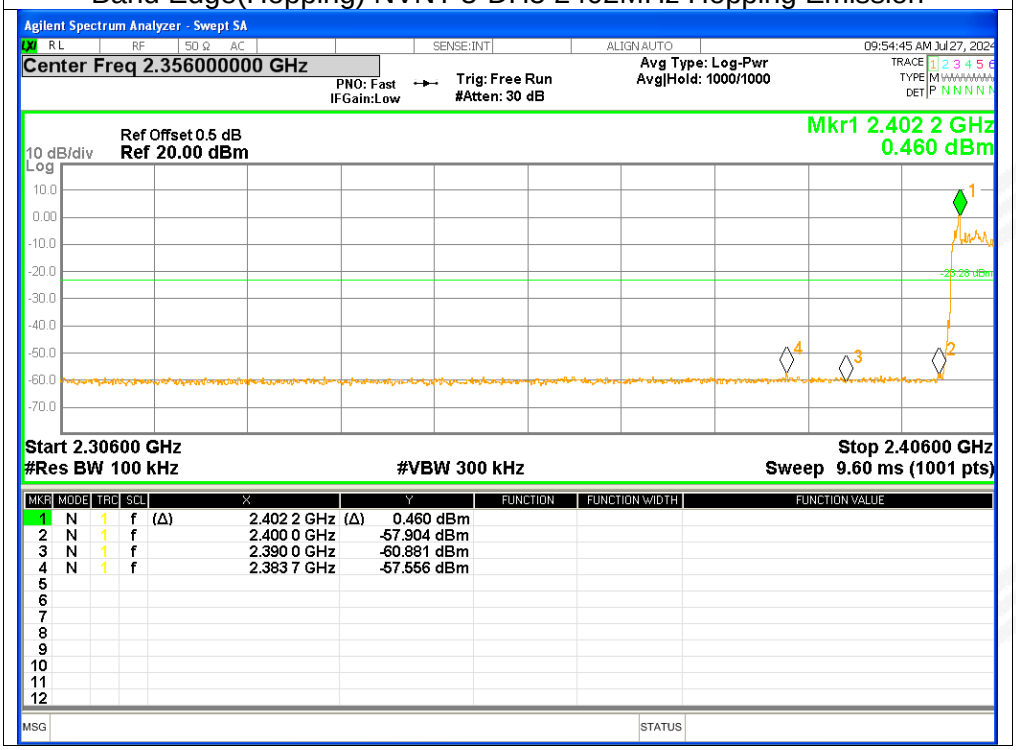
Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Emission



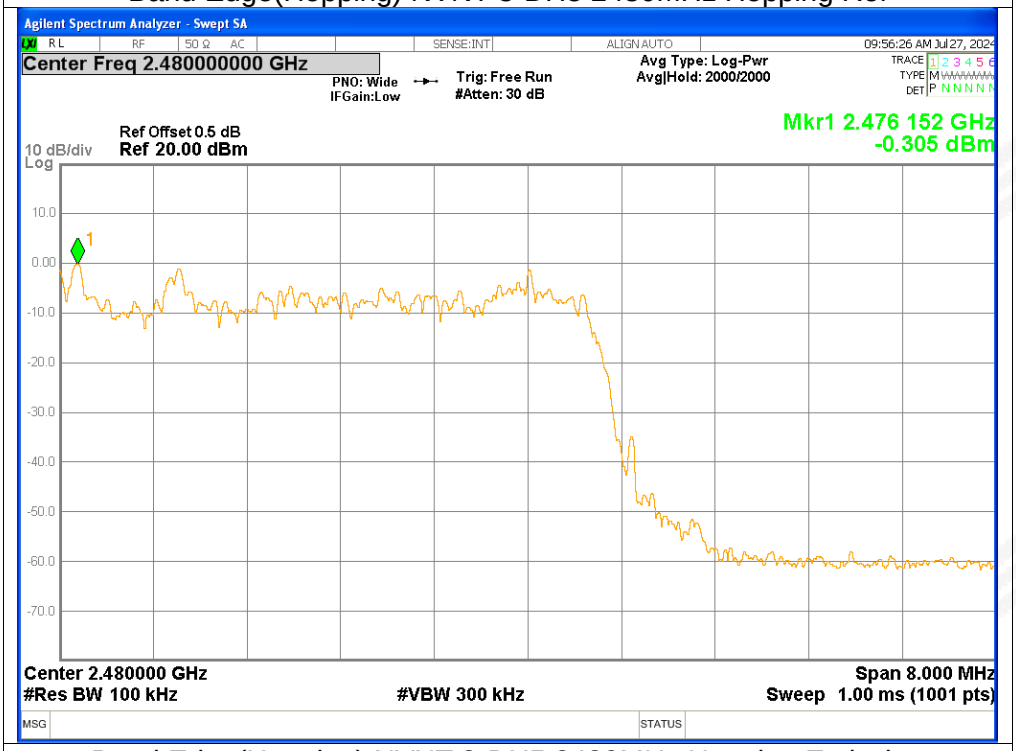
Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Ref



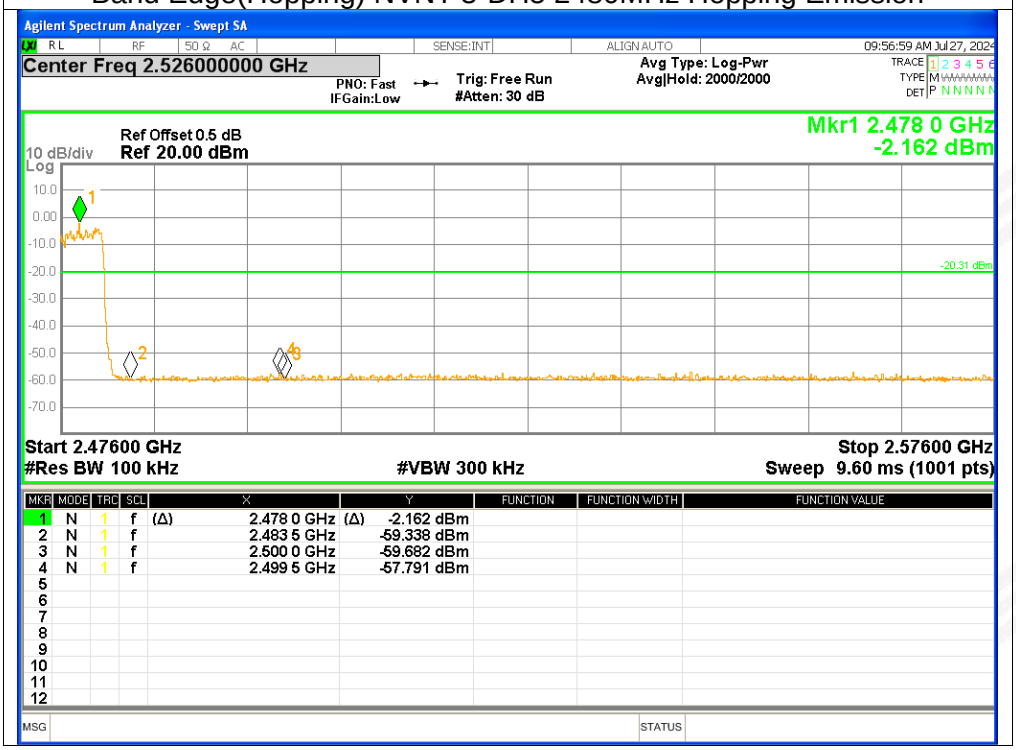
Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Emission



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



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

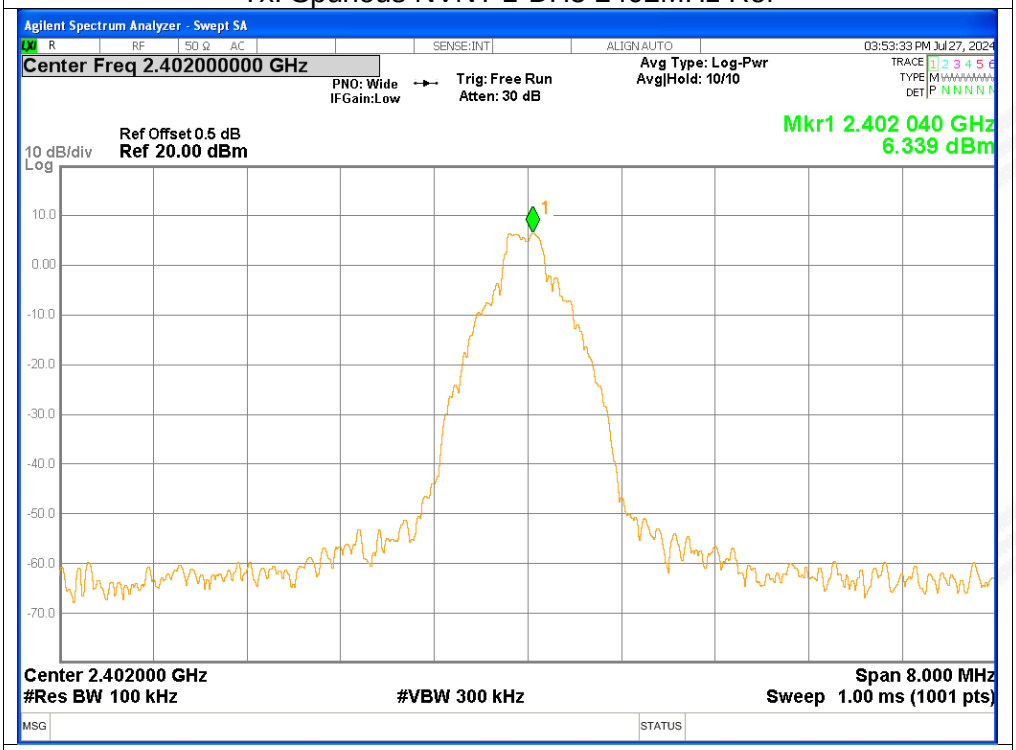


8. Conducted RF Spurious Emission

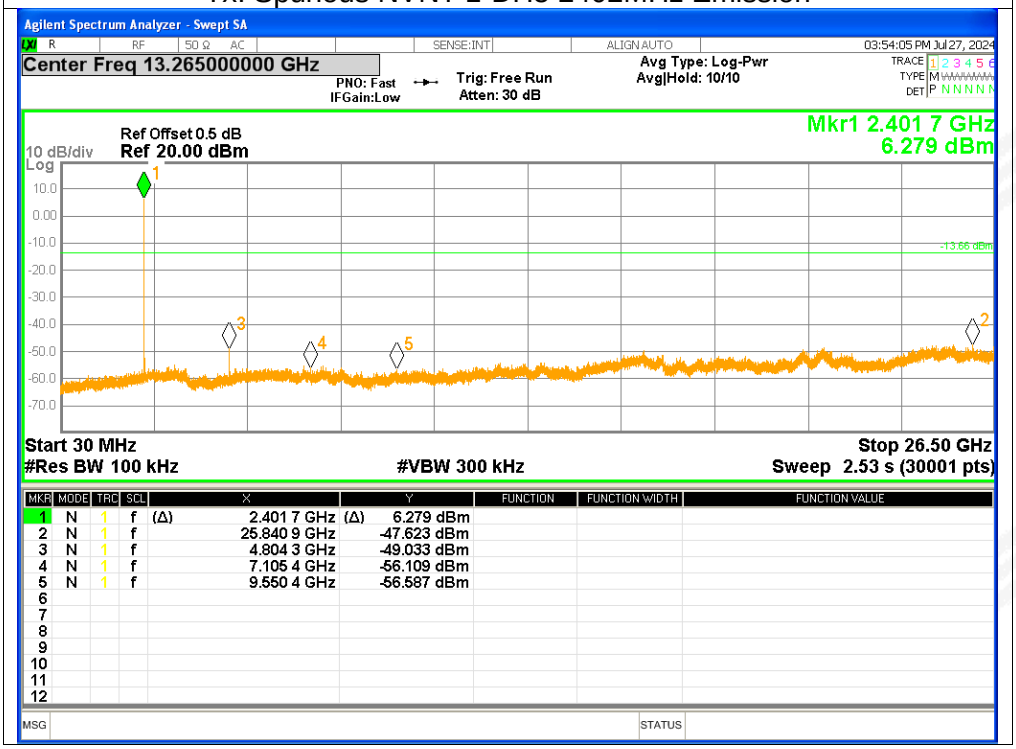
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	-53.96	<=-20	Pass
NVNT	1-DH5	2441	-47.87	<=-20	Pass
NVNT	1-DH5	2480	-53.38	<=-20	Pass
NVNT	2-DH5	2402	-43.98	<=-20	Pass
NVNT	2-DH5	2441	-42.03	<=-20	Pass
NVNT	2-DH5	2480	-44.84	<=-20	Pass
NVNT	3-DH5	2402	-47.84	<=-20	Pass
NVNT	3-DH5	2441	-47.92	<=-20	Pass
NVNT	3-DH5	2480	-48.76	<=-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ref

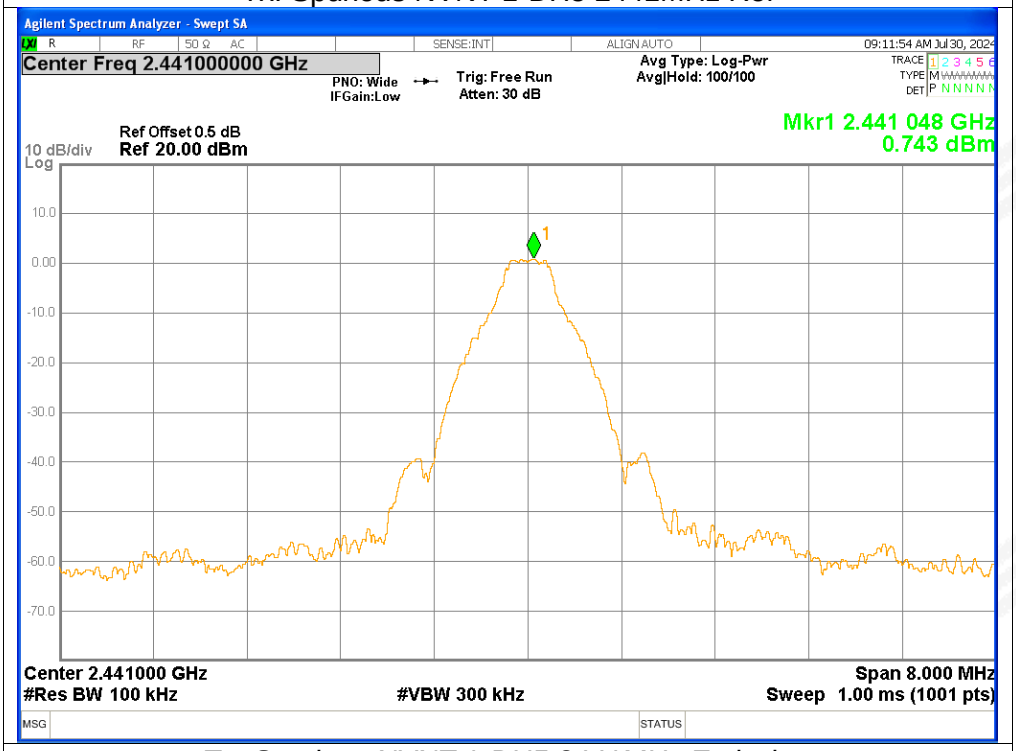


Tx. Spurious NVNT 1-DH5 2402MHz Emission

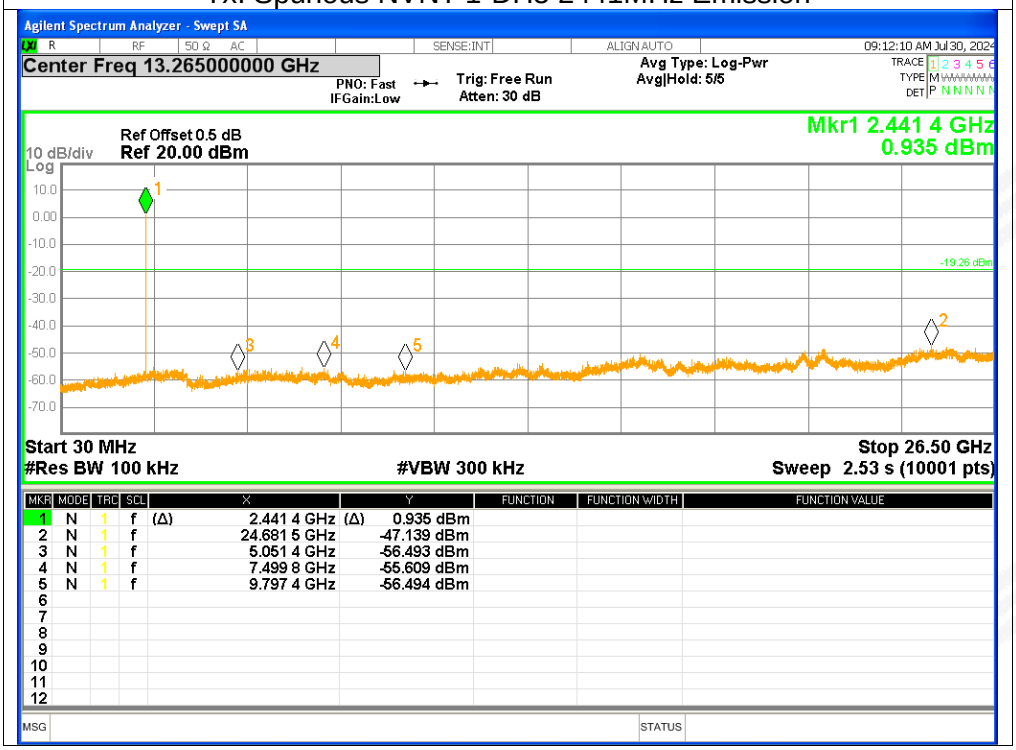


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.401 7 GHz	(Δ) 6.279 dBm			
2	N	1	f	25.840 9 GHz	-47.623 dBm			
3	N	1	f	4.804 3 GHz	-49.033 dBm			
4	N	1	f	7.105 4 GHz	-56.109 dBm			
5	N	1	f	9.550 4 GHz	-56.587 dBm			
6								
7								
8								
9								
10								
11								
12								

Tx. Spurious NVNT 1-DH5 2441MHz Ref

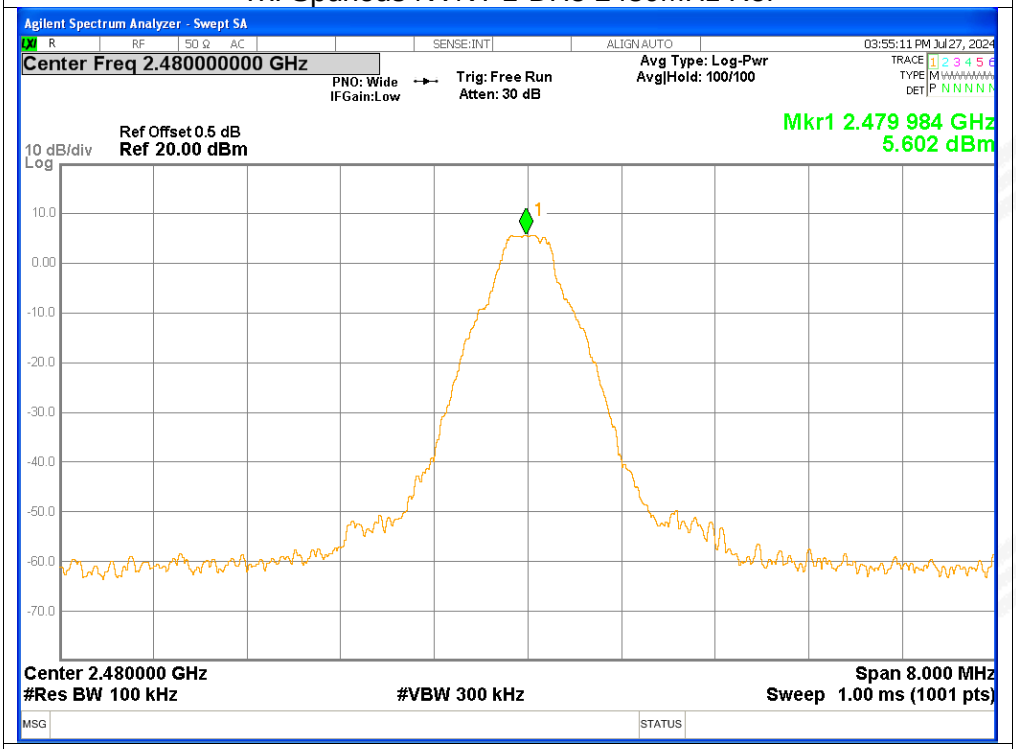


Tx. Spurious NVNT 1-DH5 2441MHz Emission

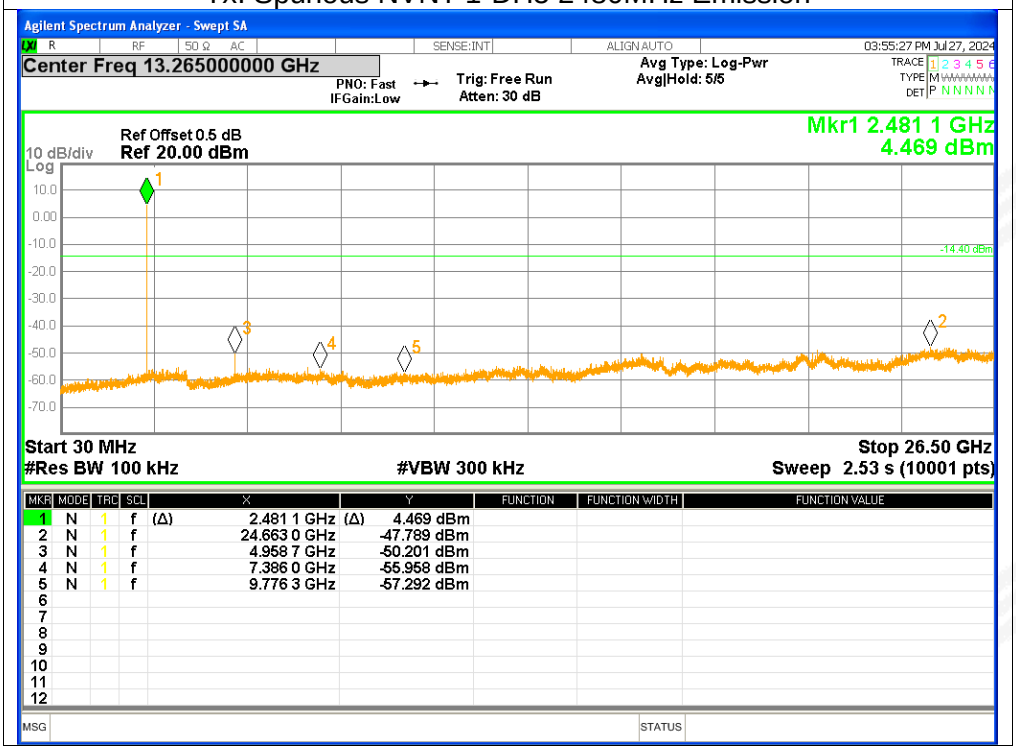


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.441 4 GHz	(Δ) 0.935 dBm			
2	N	1	f	24.681 5 GHz	-47.139 dBm			
3	N	1	f	5.051 4 GHz	-56.493 dBm			
4	N	1	f	7.499 8 GHz	-55.609 dBm			
5	N	1	f	9.797 4 GHz	-56.494 dBm			
6								
7								
8								
9								
10								
11								
12								

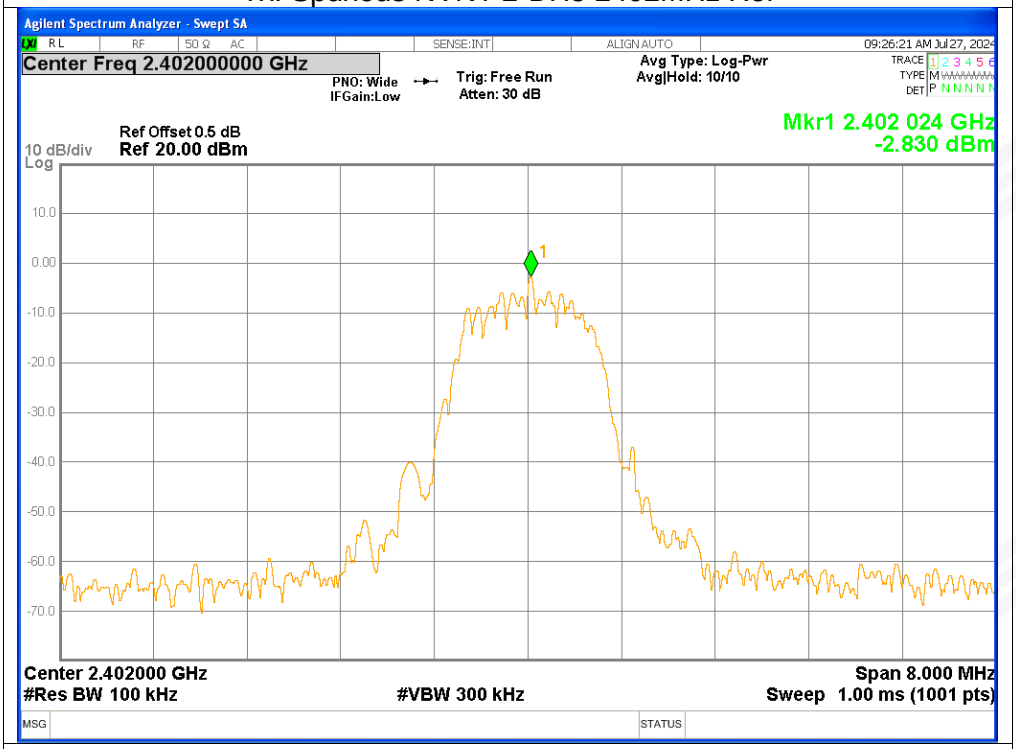
Tx. Spurious NVNT 1-DH5 2480MHz Ref



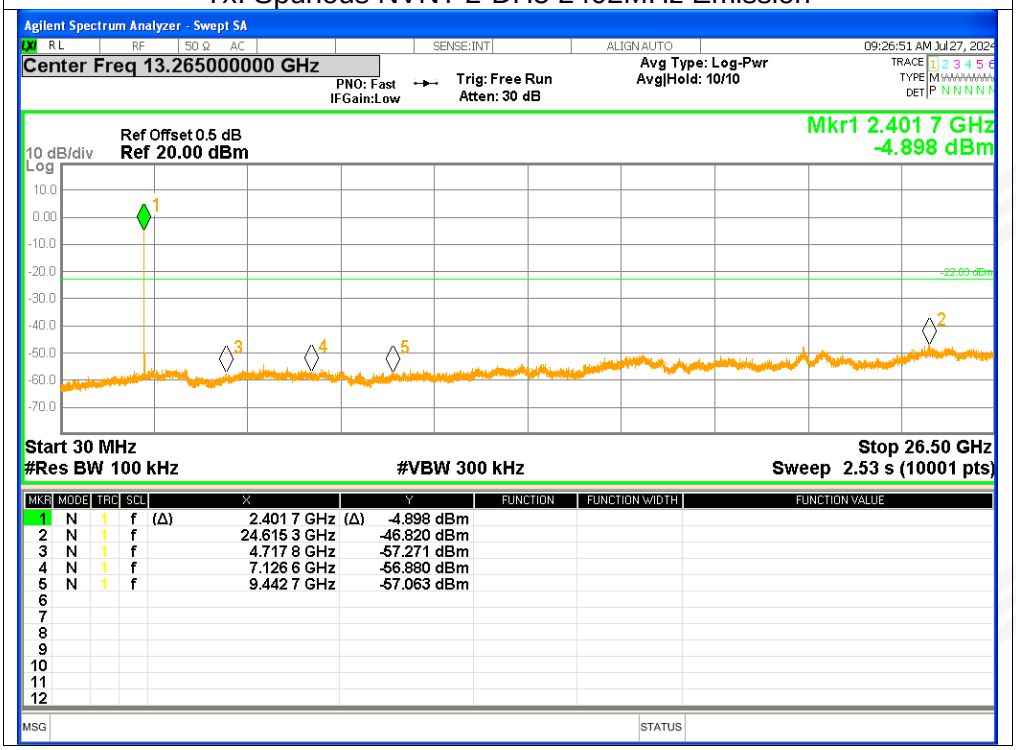
Tx. Spurious NVNT 1-DH5 2480MHz Emission



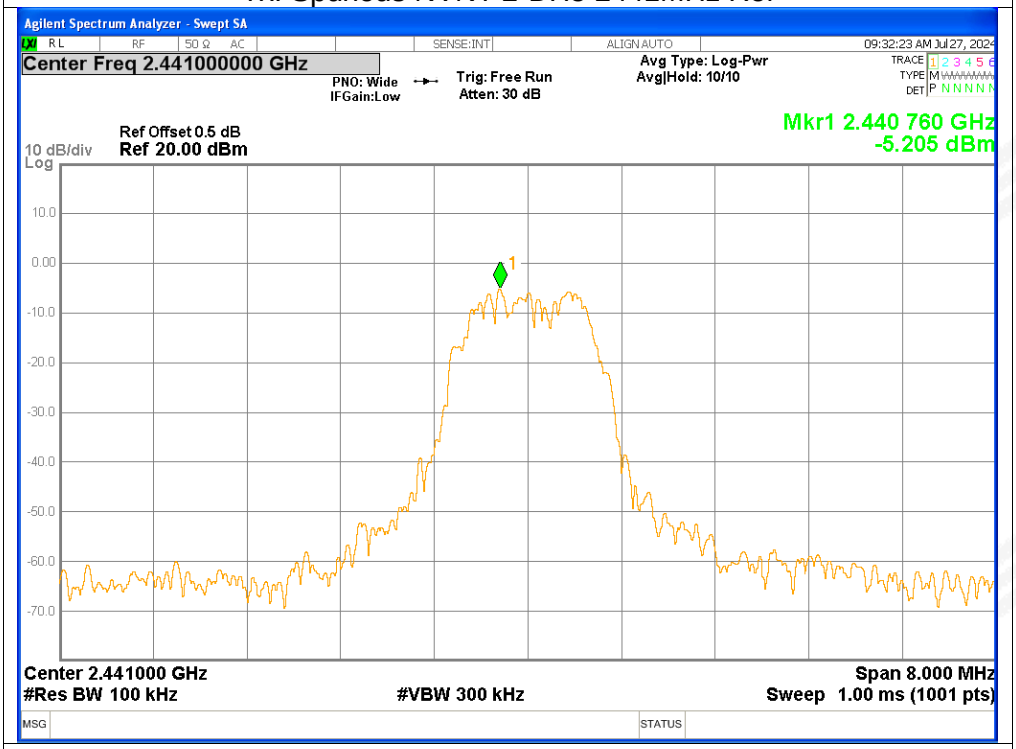
Tx. Spurious NVNT 2-DH5 2402MHz Ref



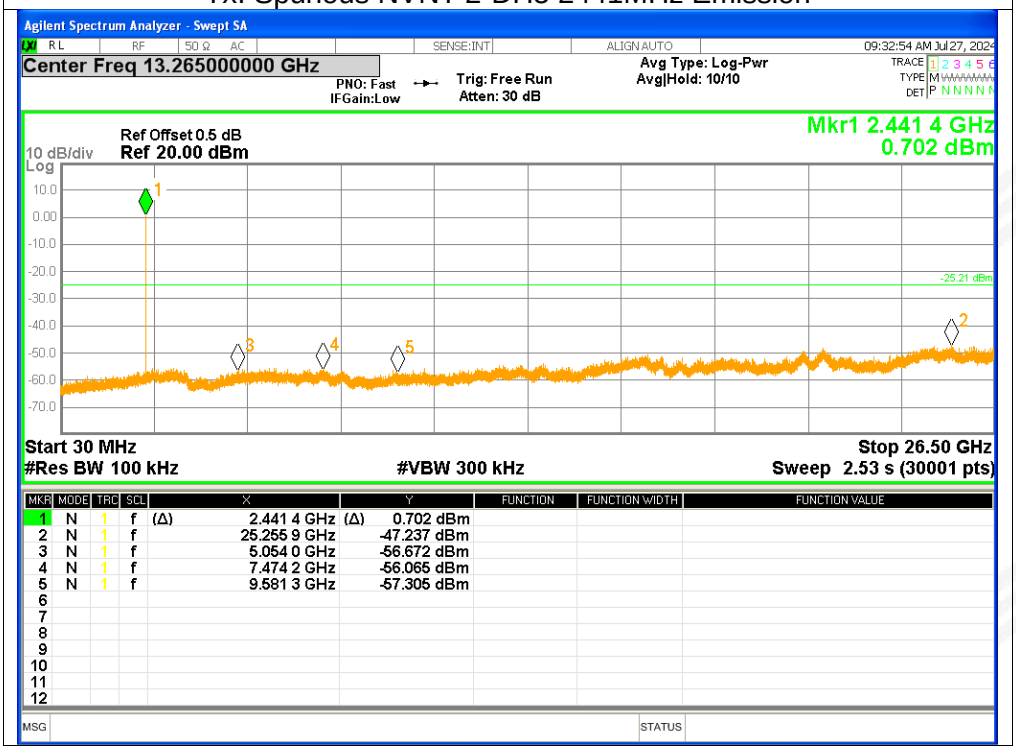
Tx. Spurious NVNT 2-DH5 2402MHz Emission



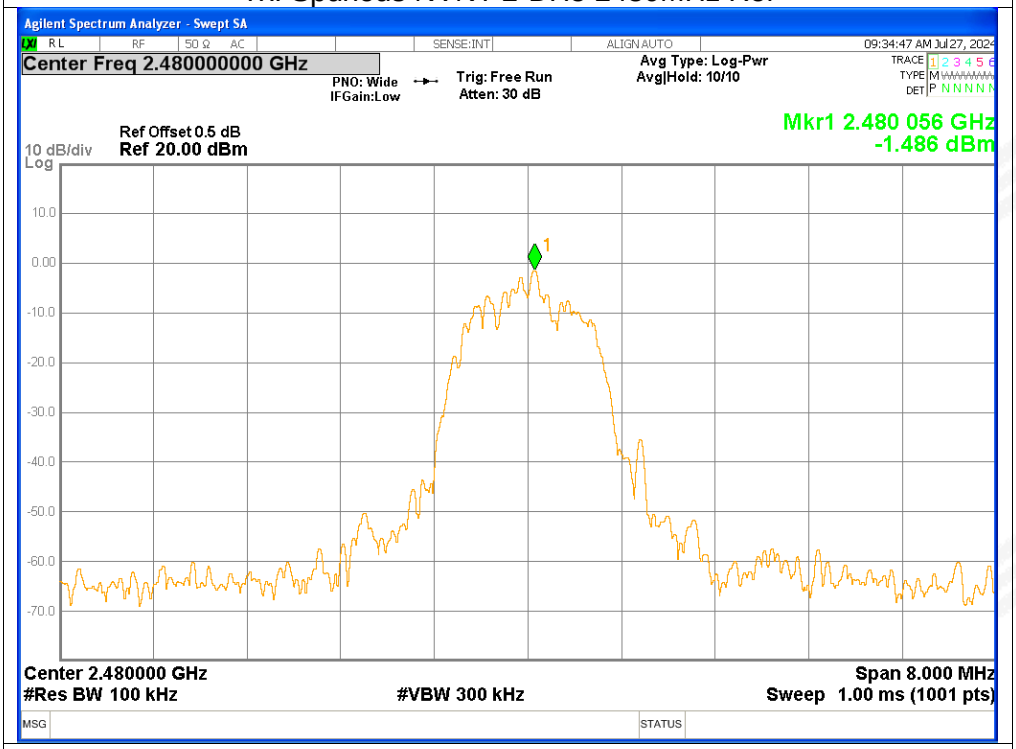
Tx. Spurious NVNT 2-DH5 2441MHz Ref



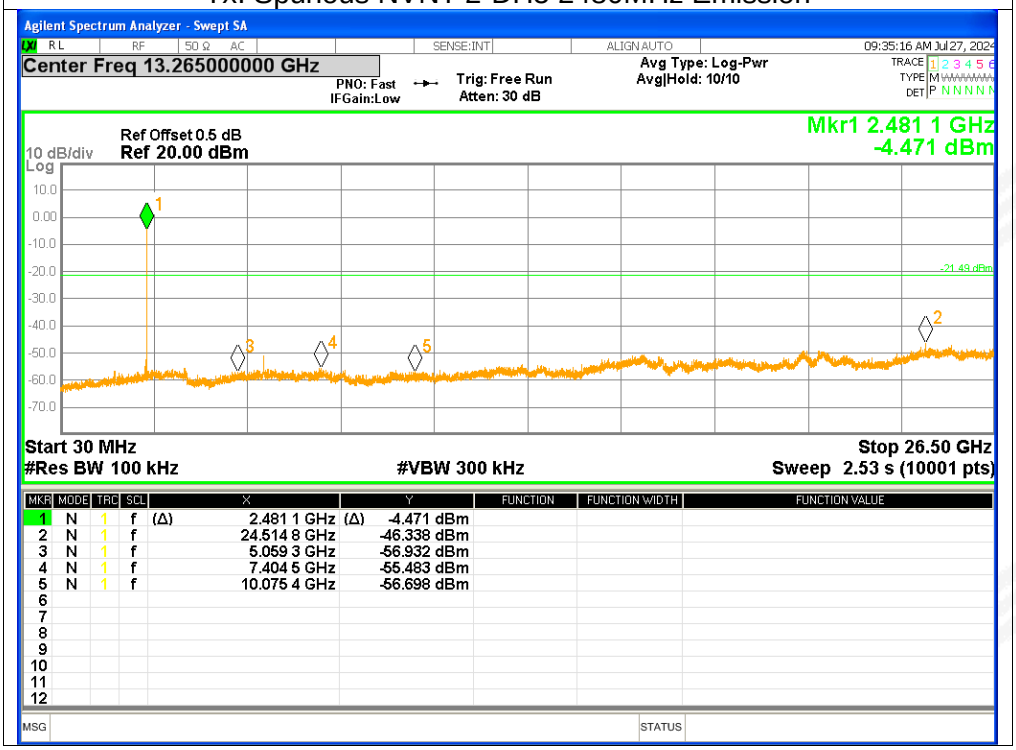
Tx. Spurious NVNT 2-DH5 2441MHz Emission



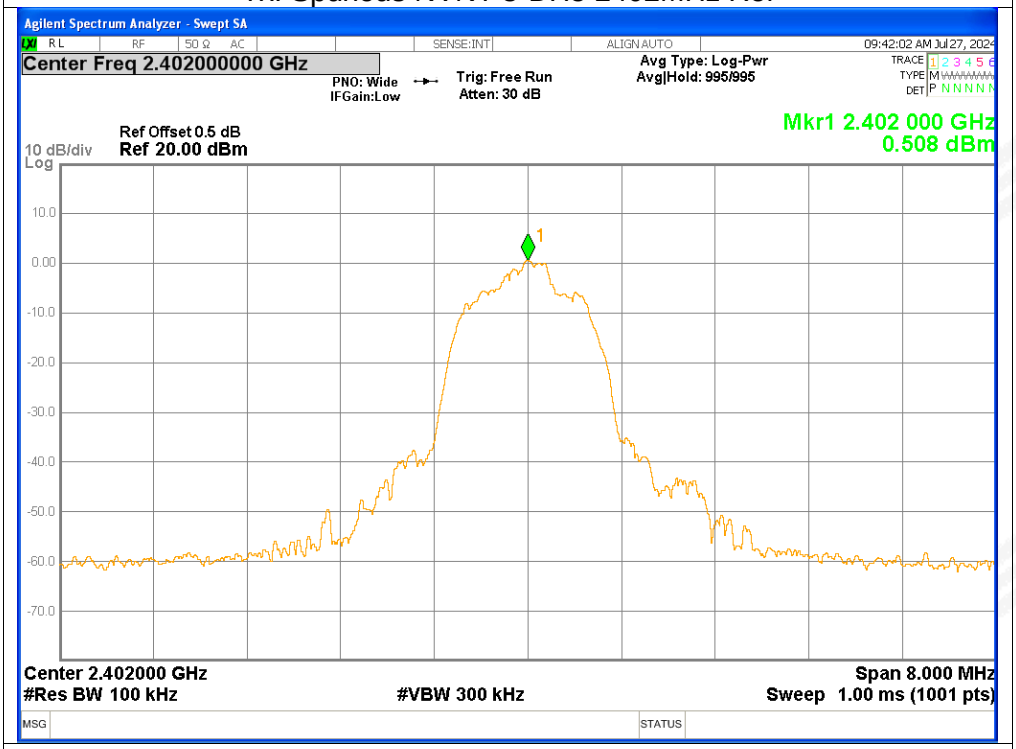
Tx. Spurious NVNT 2-DH5 2480MHz Ref



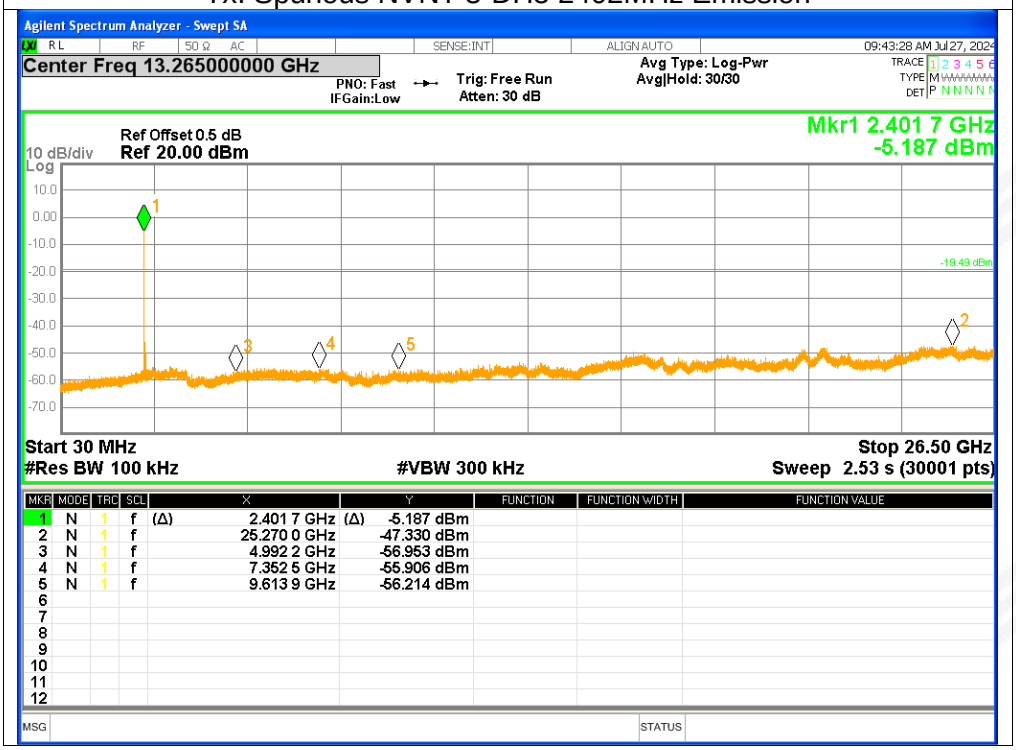
Tx. Spurious NVNT 2-DH5 2480MHz Emission



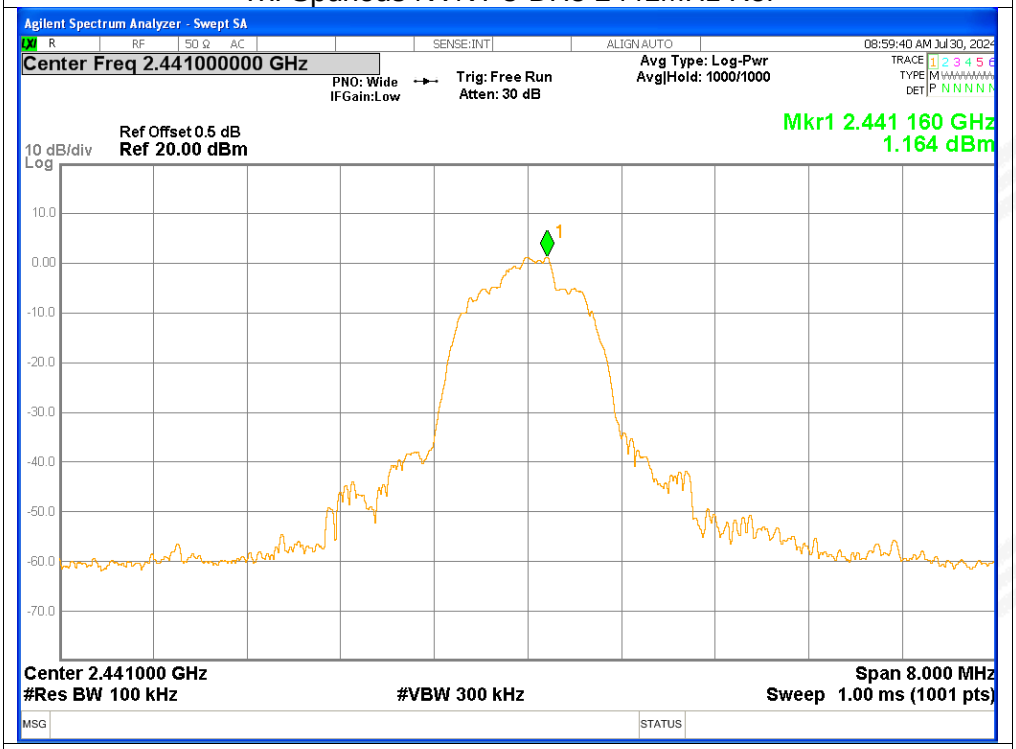
Tx. Spurious NVNT 3-DH5 2402MHz Ref



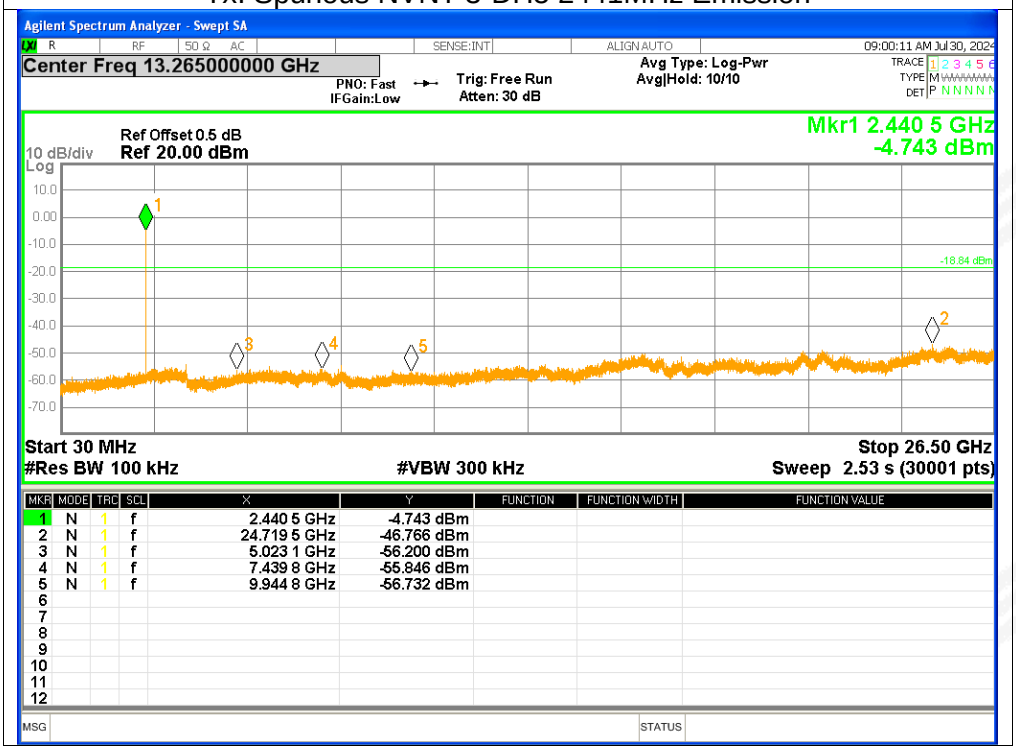
Tx. Spurious NVNT 3-DH5 2402MHz Emission



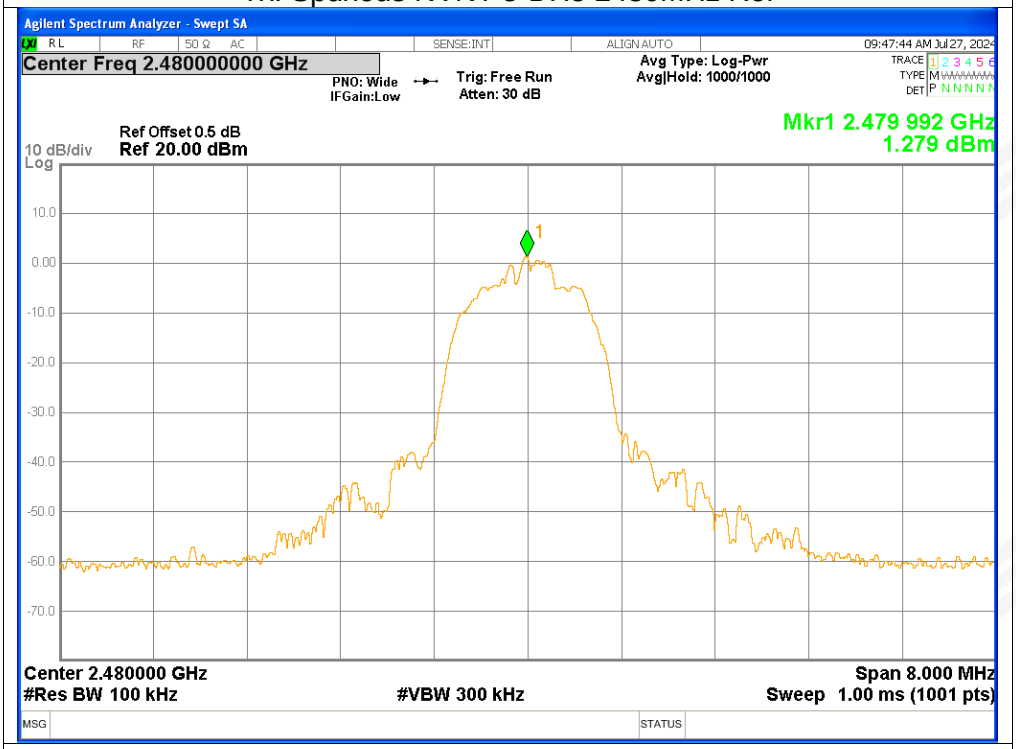
Tx. Spurious NVNT 3-DH5 2441MHz Ref



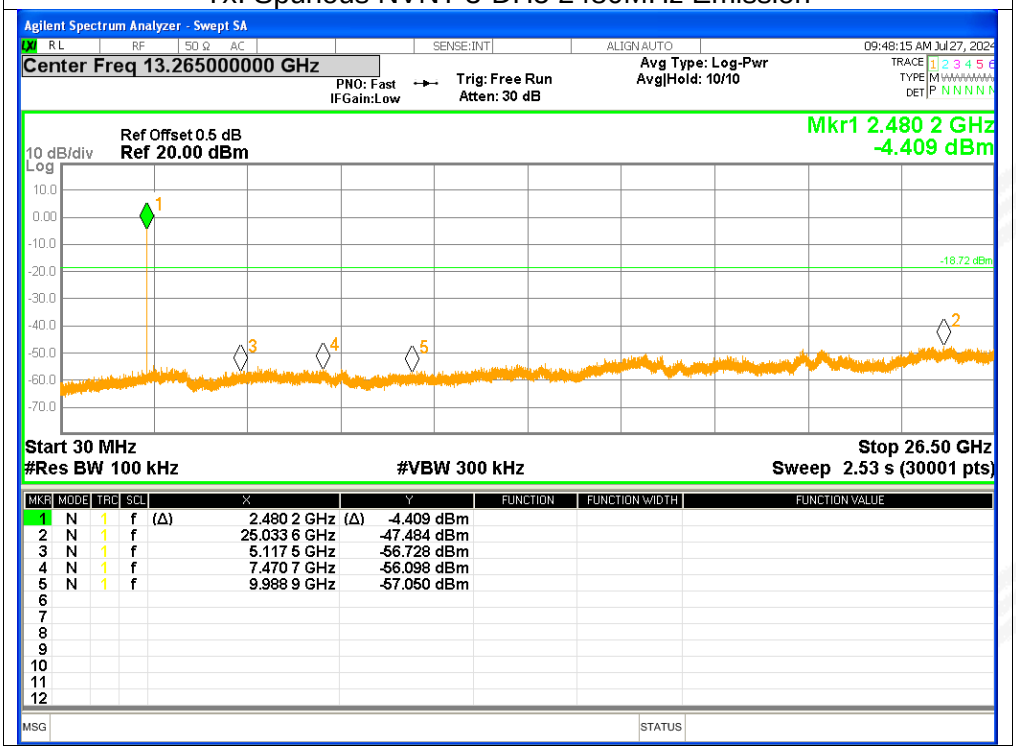
Tx. Spurious NVNT 3-DH5 2441MHz Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ref



Tx. Spurious NVNT 3-DH5 2480MHz Emission



Right

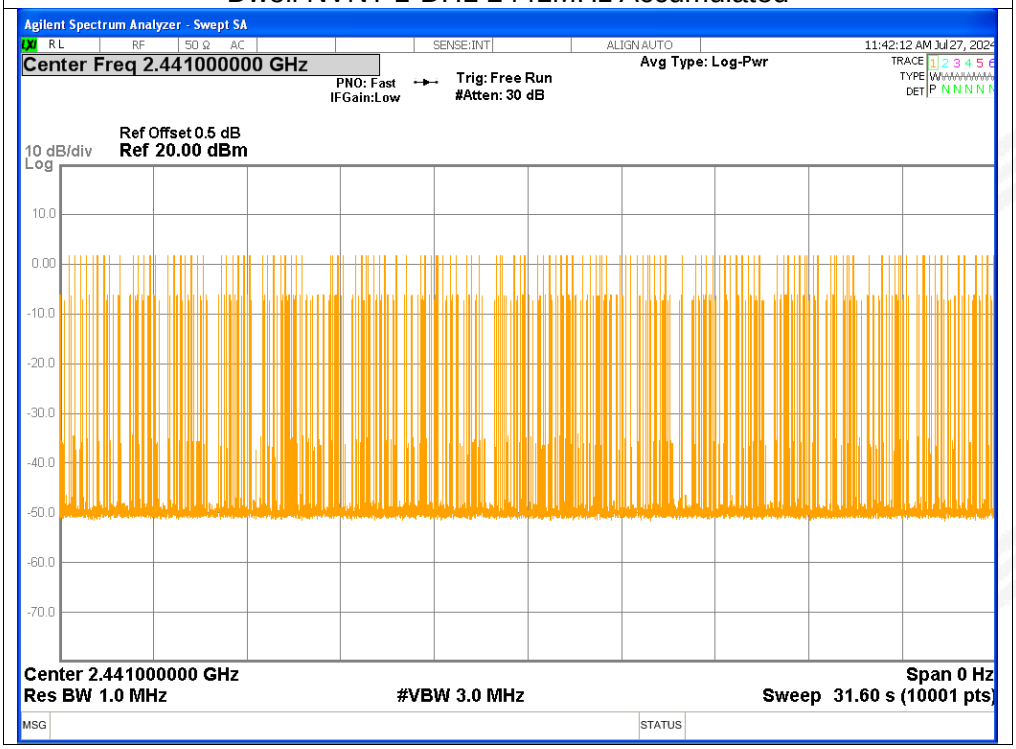
1. Dwell Time

Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.375	63.375	169	31600	<=400	Pass
NVNT	1-DH3	2441	1.63	159.74	98	31600	<=400	Pass
NVNT	1-DH5	2441	2.879	207.288	72	31600	<=400	Pass
NVNT	2-DH1	2441	0.382	55.772	146	31600	<=400	Pass
NVNT	2-DH3	2441	1.636	186.504	114	31600	<=400	Pass
NVNT	2-DH5	2441	2.884	201.88	70	31600	<=400	Pass
NVNT	3-DH1	2441	0.384	63.744	166	31600	<=400	Pass
NVNT	3-DH3	2441	1.633	176.364	108	31600	<=400	Pass
NVNT	3-DH5	2441	2.885	239.455	83	31600	<=400	Pass

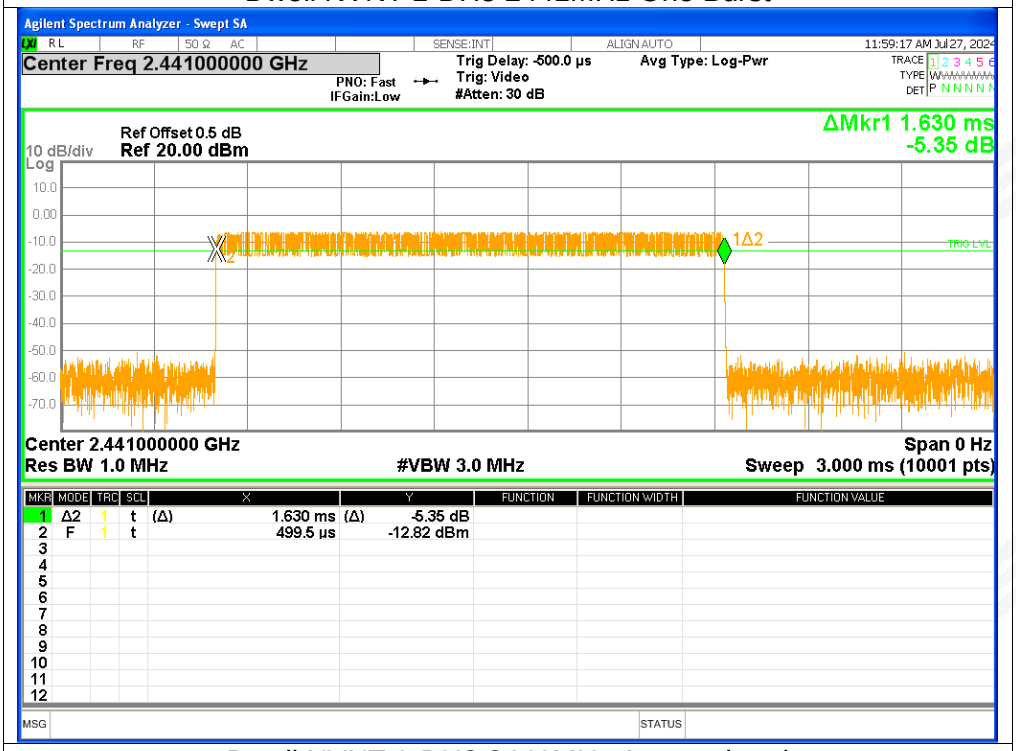
Test Graphs

Dwell NVNT 1-DH1 2441MHz One Burst

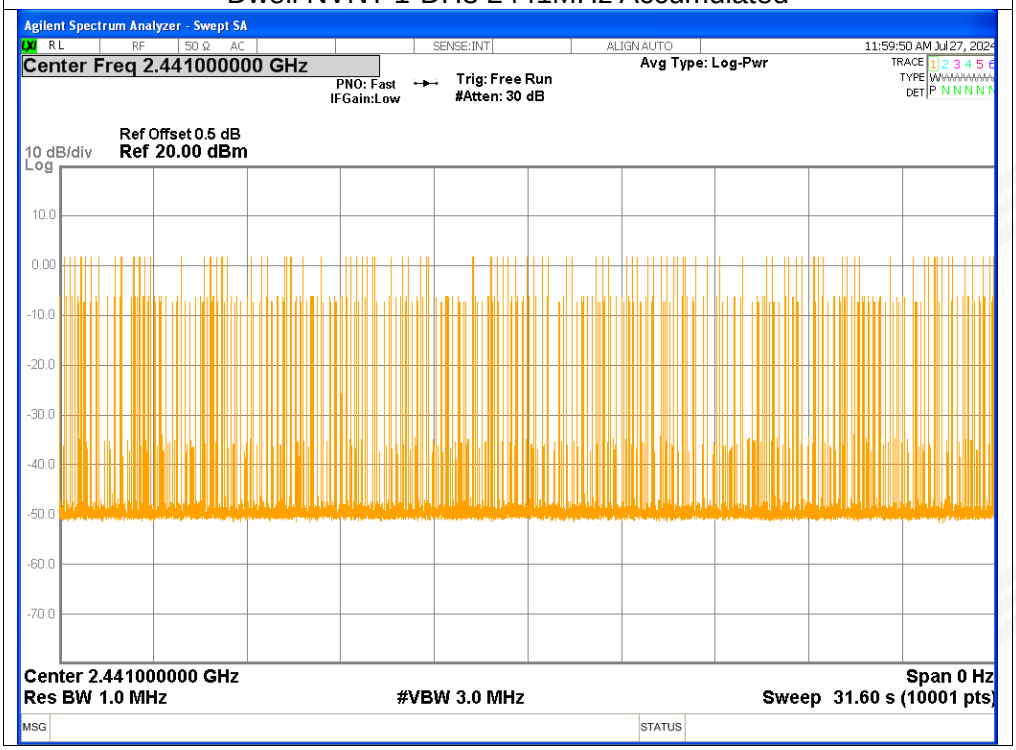
Dwell NVNT 1-DH1 2441MHz Accumulated



Dwell NVNT 1-DH3 2441MHz One Burst

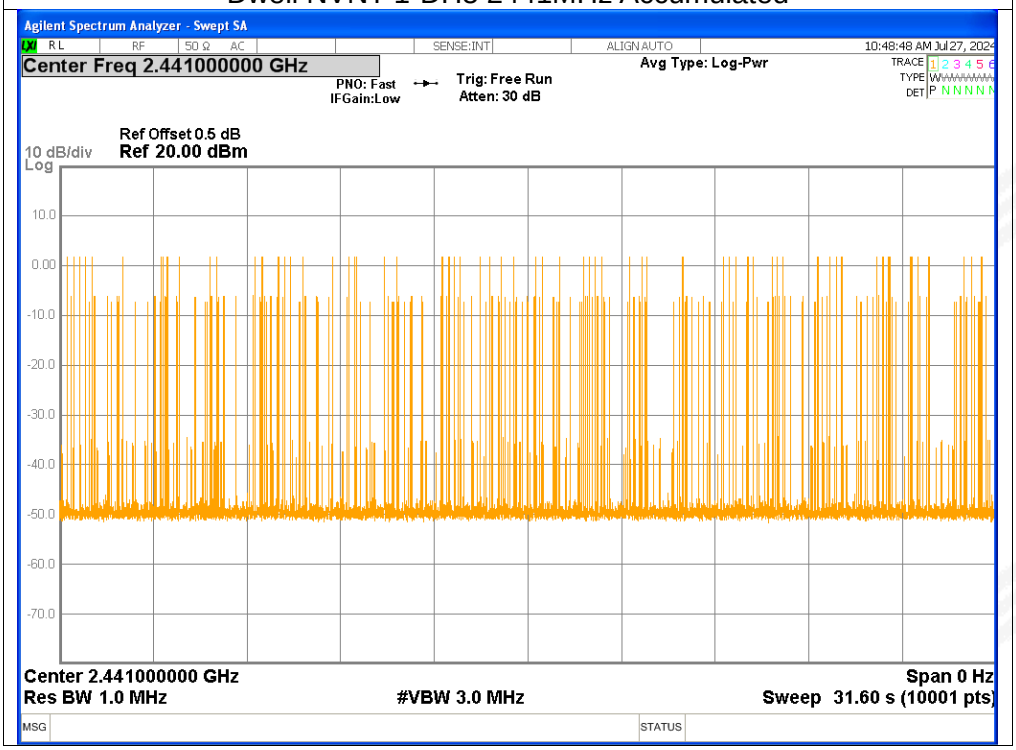


Dwell NVNT 1-DH3 2441MHz Accumulated



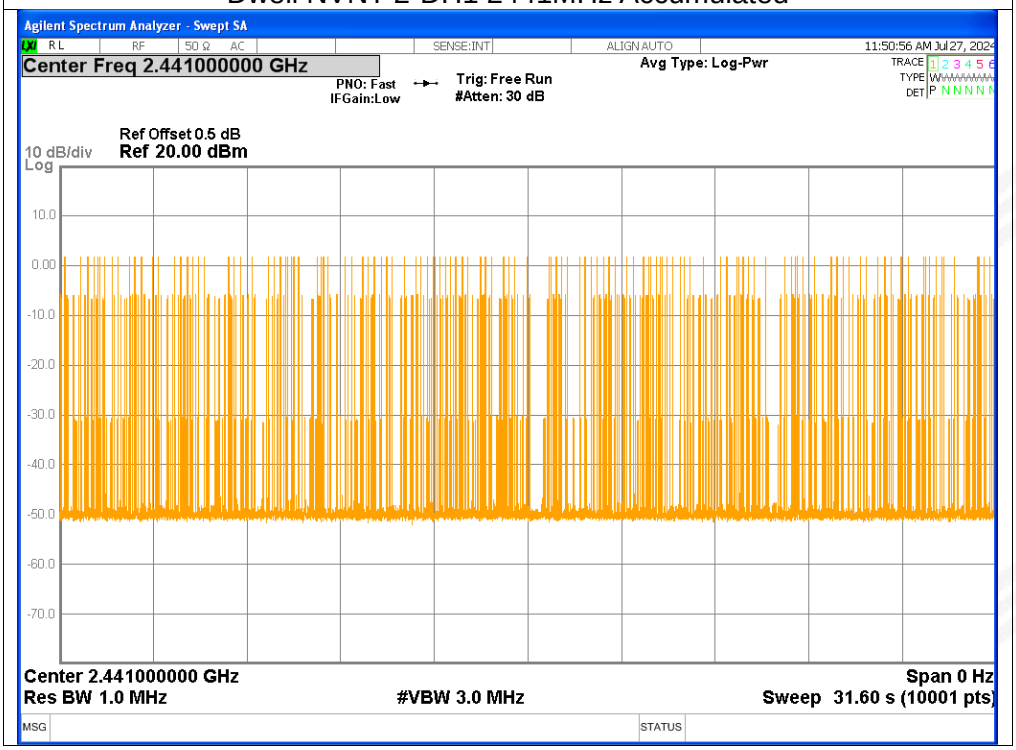
Dwell NVNT 1-DH5 2441MHz One Burst

Dwell NVNT 1-DH5 2441MHz Accumulated



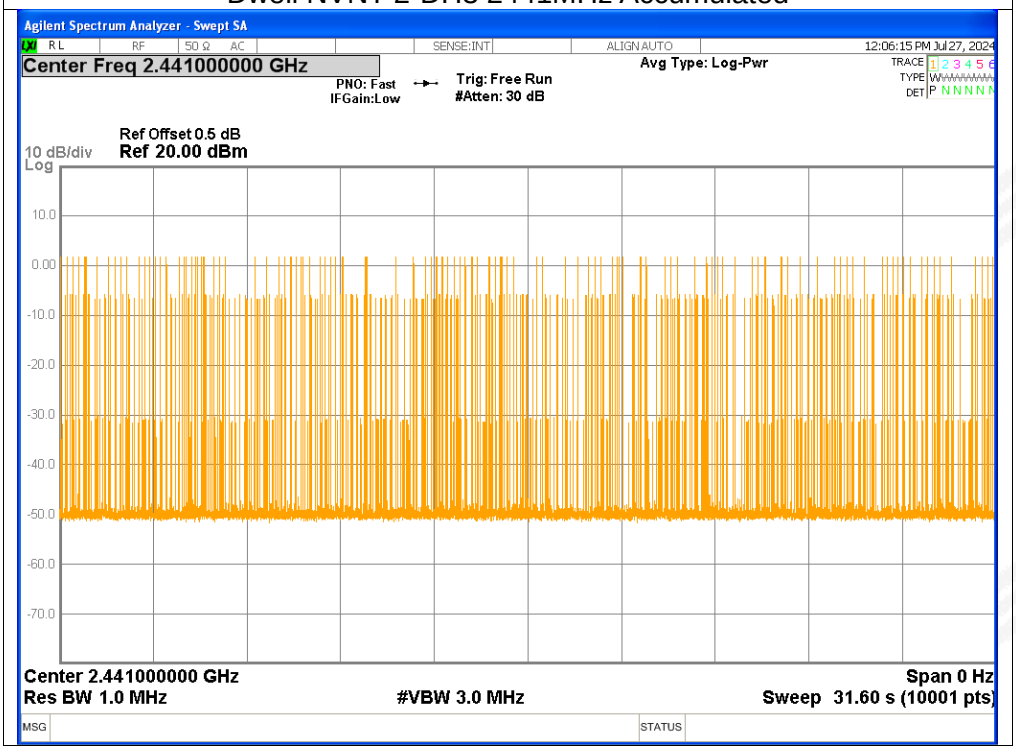
Dwell NVNT 2-DH1 2441MHz One Burst

Dwell NVNT 2-DH1 2441MHz Accumulated



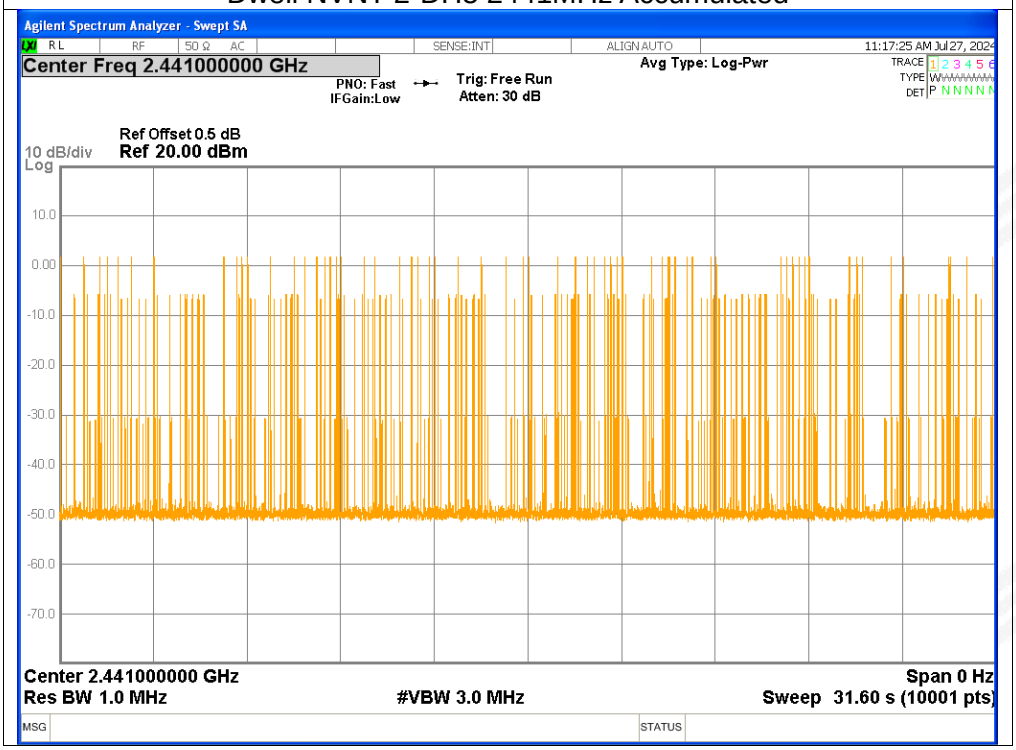
Dwell NVNT 2-DH3 2441MHz One Burst

Dwell NVNT 2-DH3 2441MHz Accumulated



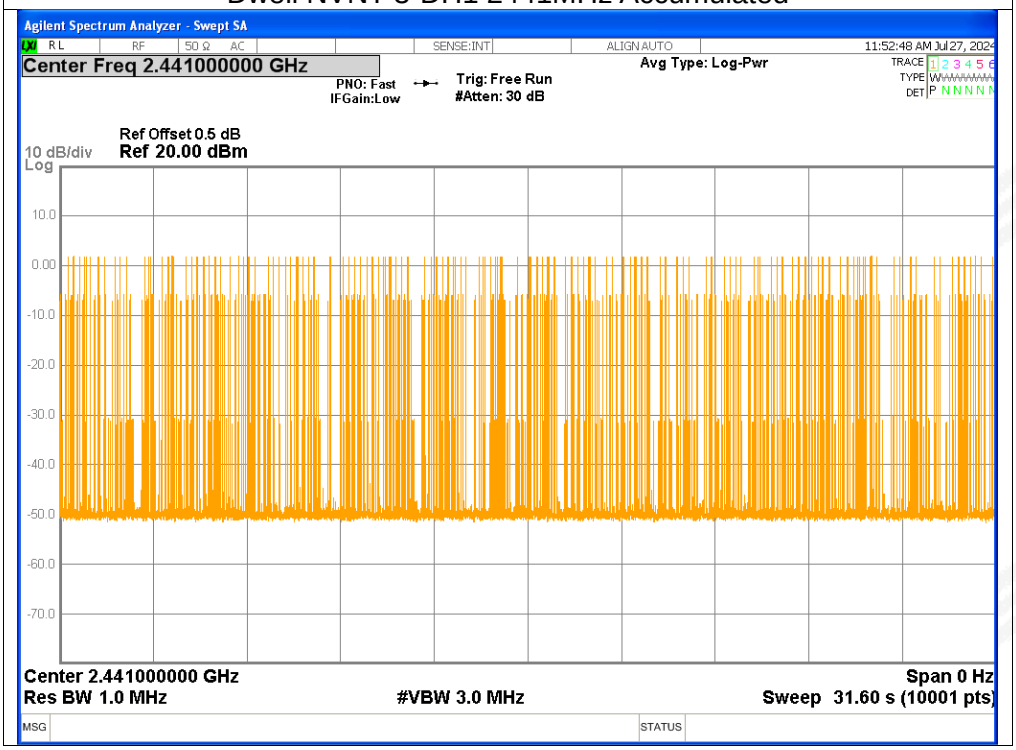
Dwell NVNT 2-DH5 2441MHz One Burst

Dwell NVNT 2-DH5 2441MHz Accumulated

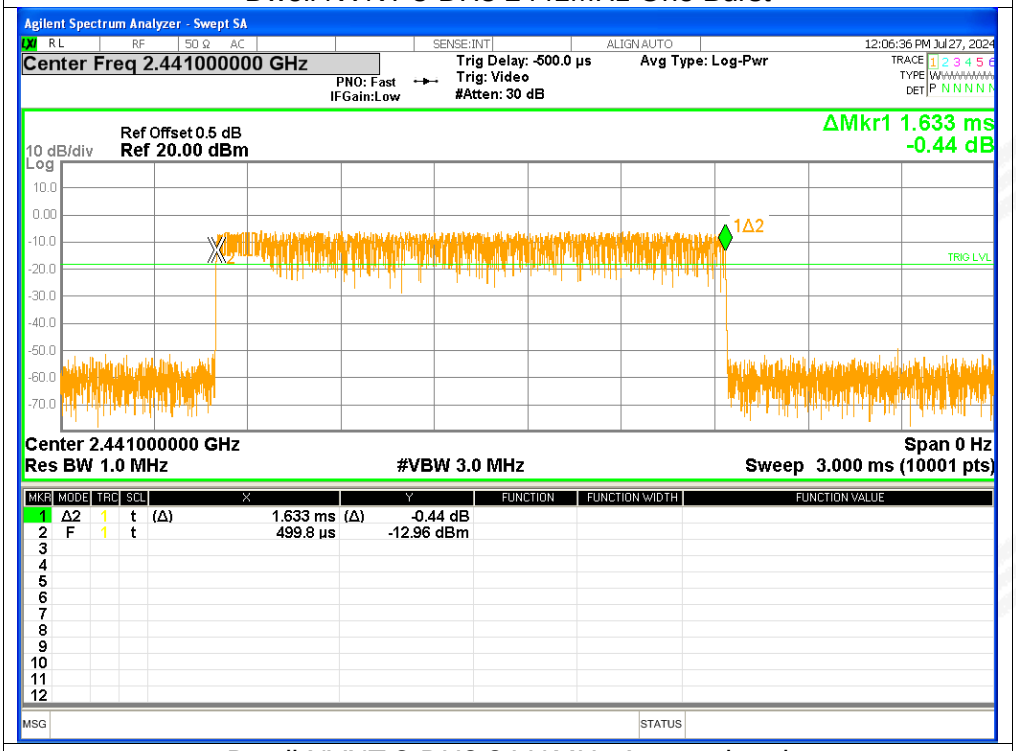


Dwell NVNT 3-DH1 2441MHz One Burst

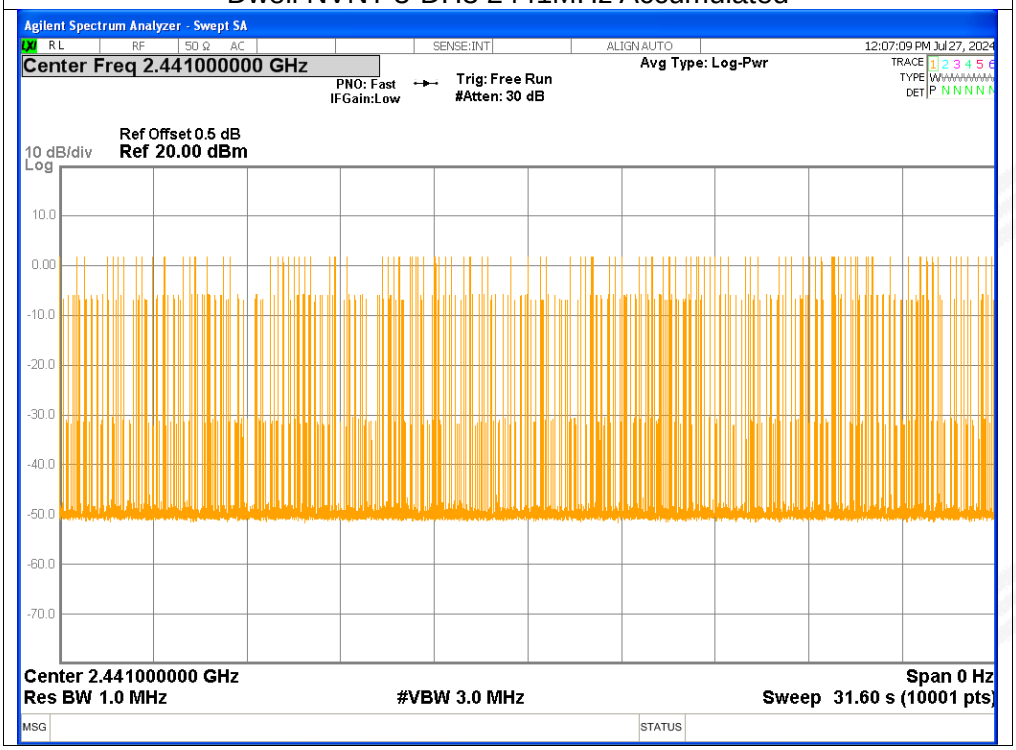
Dwell NVNT 3-DH1 2441MHz Accumulated



Dwell NVNT 3-DH3 2441MHz One Burst

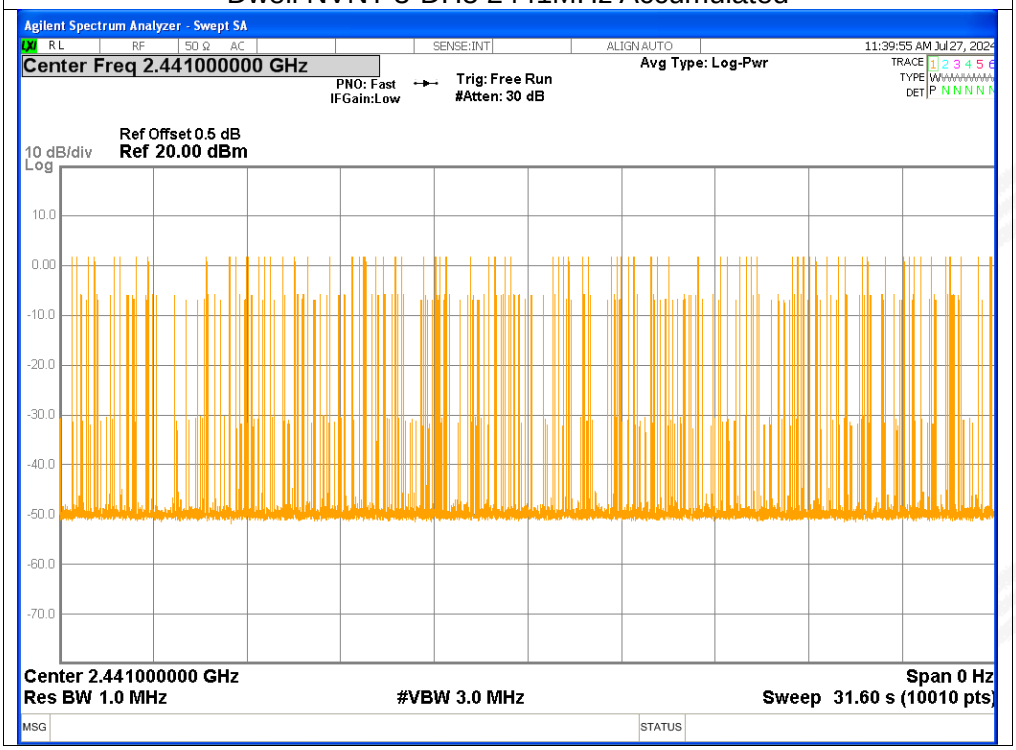


Dwell NVNT 3-DH3 2441MHz Accumulated



Dwell NVNT 3-DH5 2441MHz One Burst

Dwell NVNT 3-DH5 2441MHz Accumulated

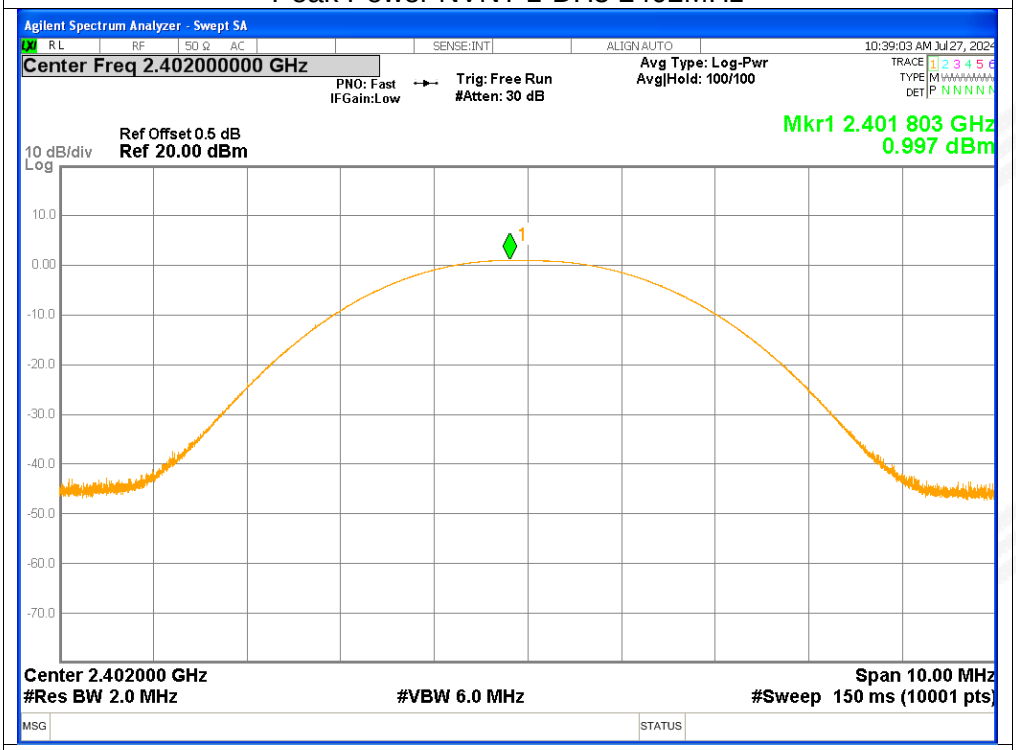


2. Maximum Peak Conducted Output Power

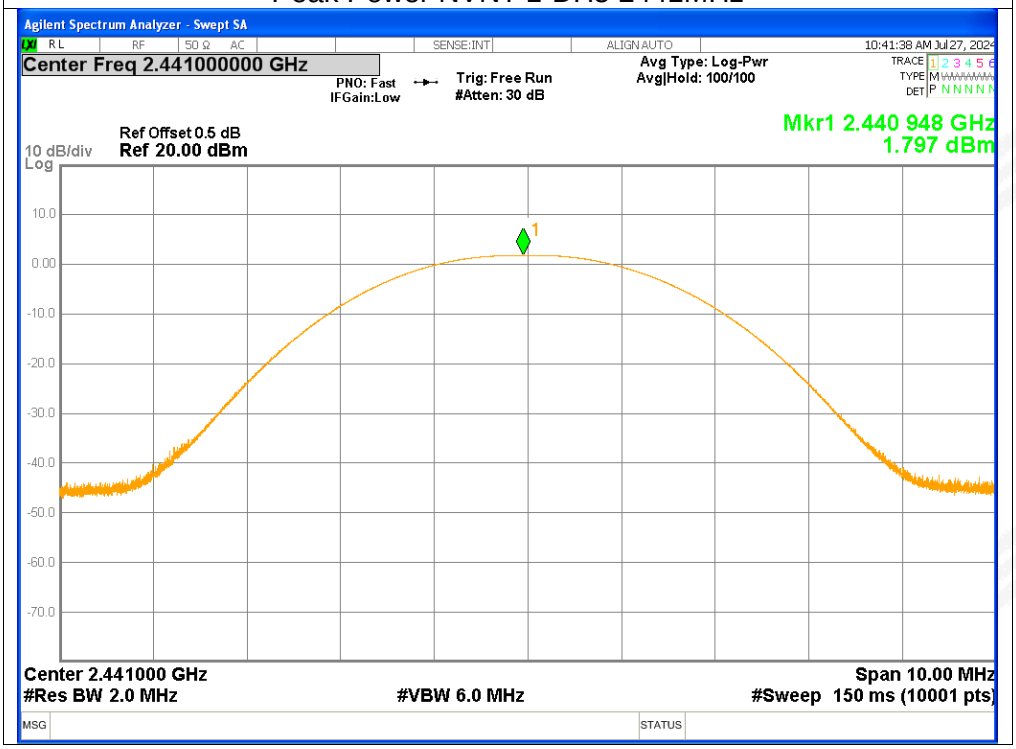
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	1	<=20.97	Pass
NVNT	1-DH5	2441	1.8	<=20.97	Pass
NVNT	1-DH5	2480	1.7	<=20.97	Pass
NVNT	2-DH5	2402	0.9	<=20.97	Pass
NVNT	2-DH5	2441	1.79	<=20.97	Pass
NVNT	2-DH5	2480	1.72	<=20.97	Pass
NVNT	3-DH5	2402	0.9	<=20.97	Pass
NVNT	3-DH5	2441	1.47	<=20.97	Pass
NVNT	3-DH5	2480	1.72	<=20.97	Pass

Test Graphs

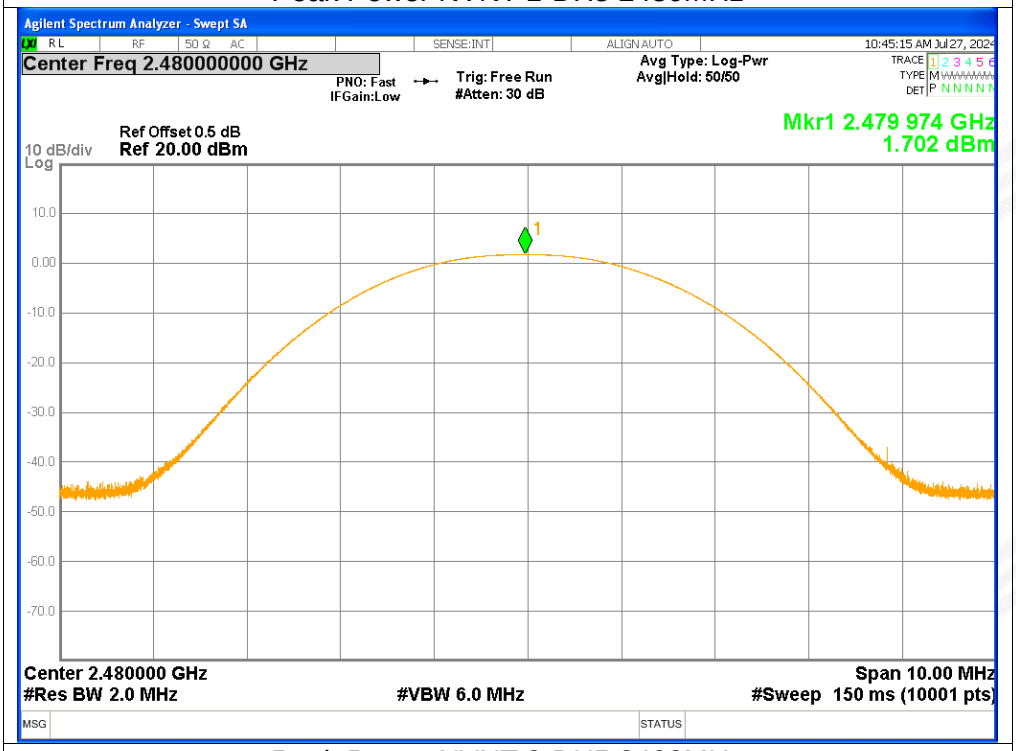
Peak Power NVNT 1-DH5 2402MHz



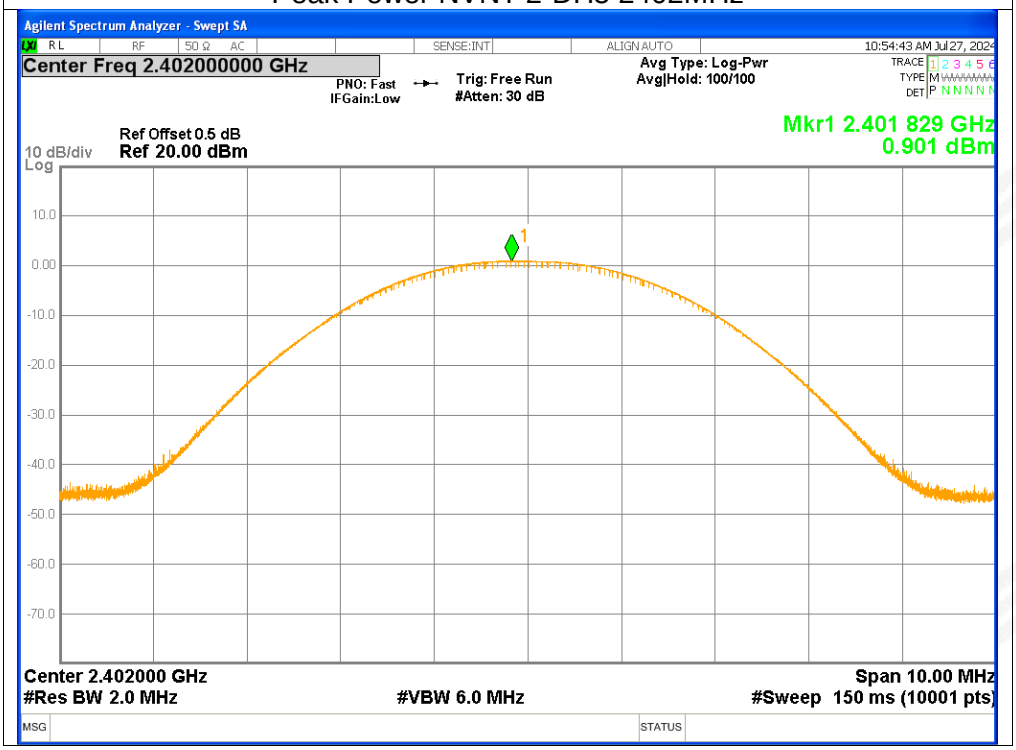
Peak Power NVNT 1-DH5 2441MHz



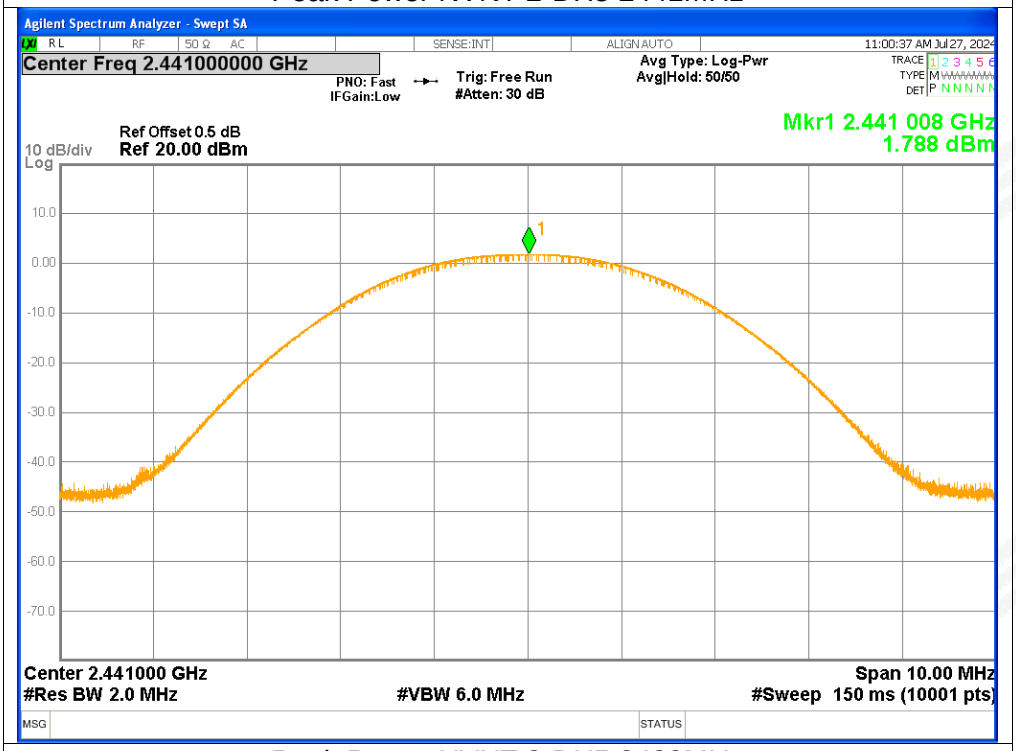
Peak Power NVNT 1-DH5 2480MHz



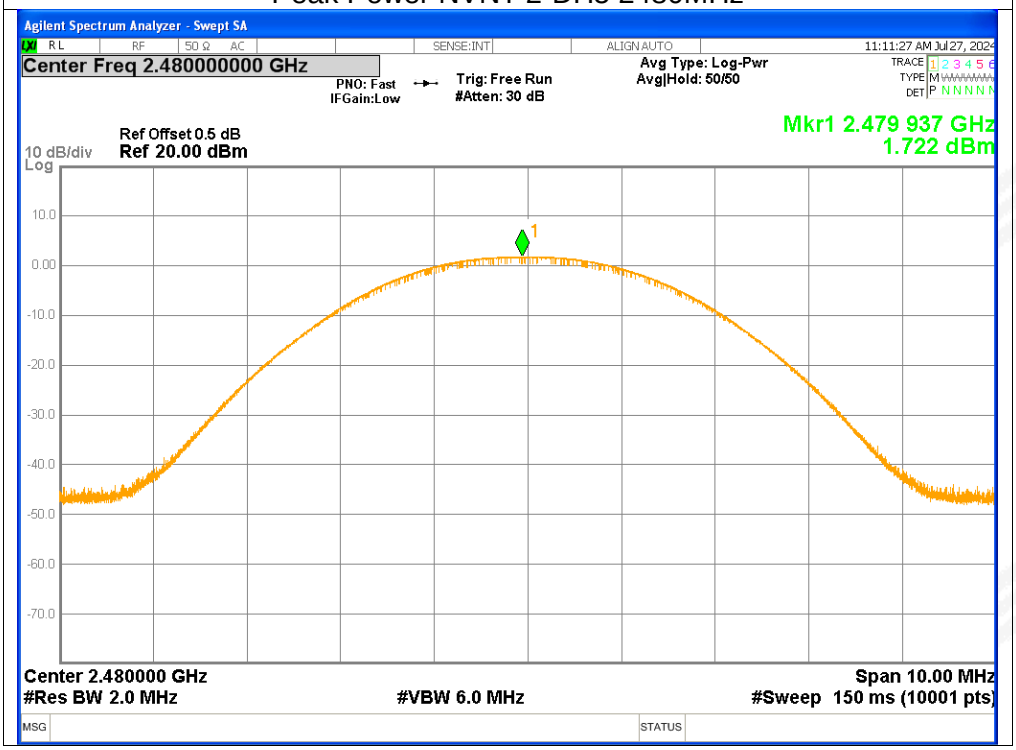
Peak Power NVNT 2-DH5 2402MHz



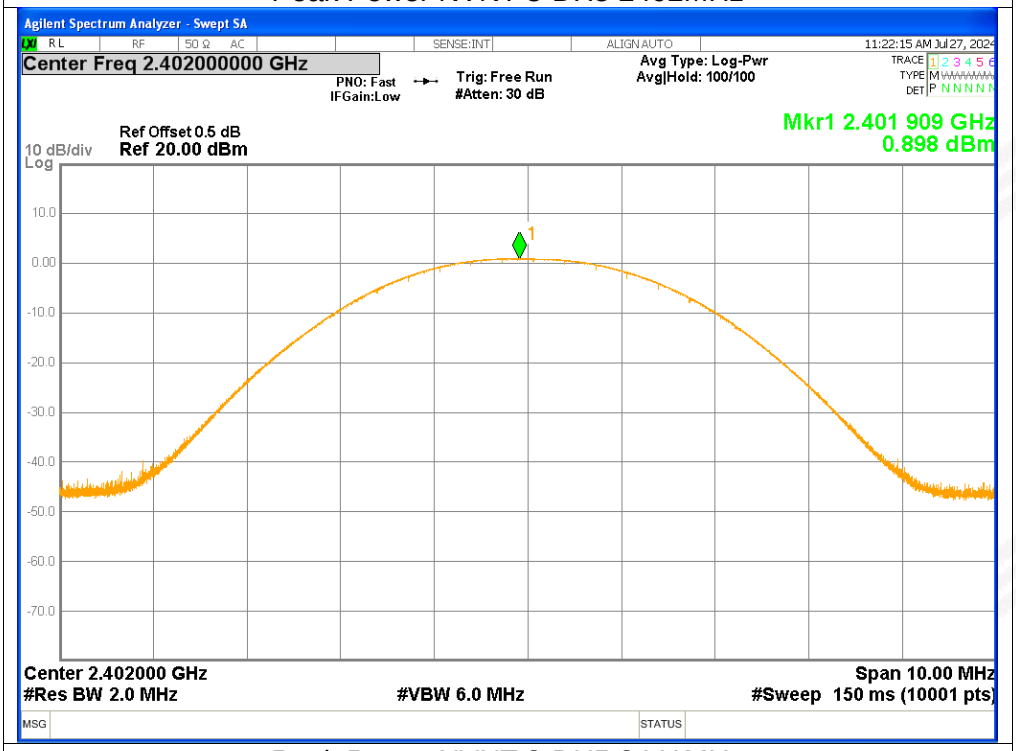
Peak Power NVNT 2-DH5 2441MHz



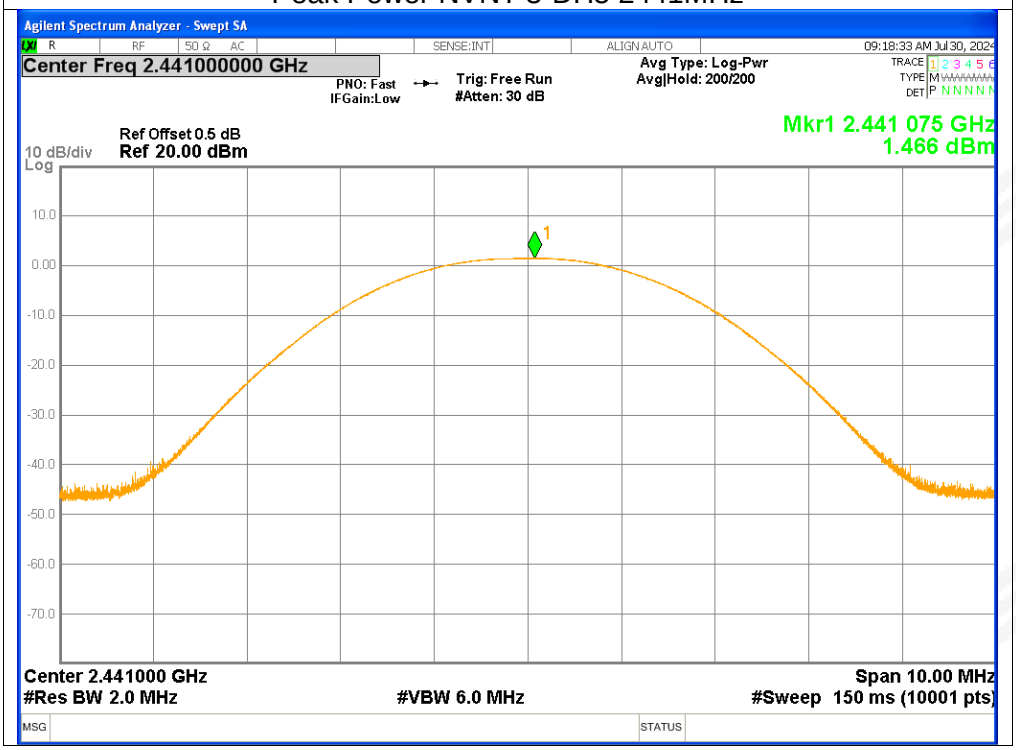
Peak Power NVNT 2-DH5 2480MHz



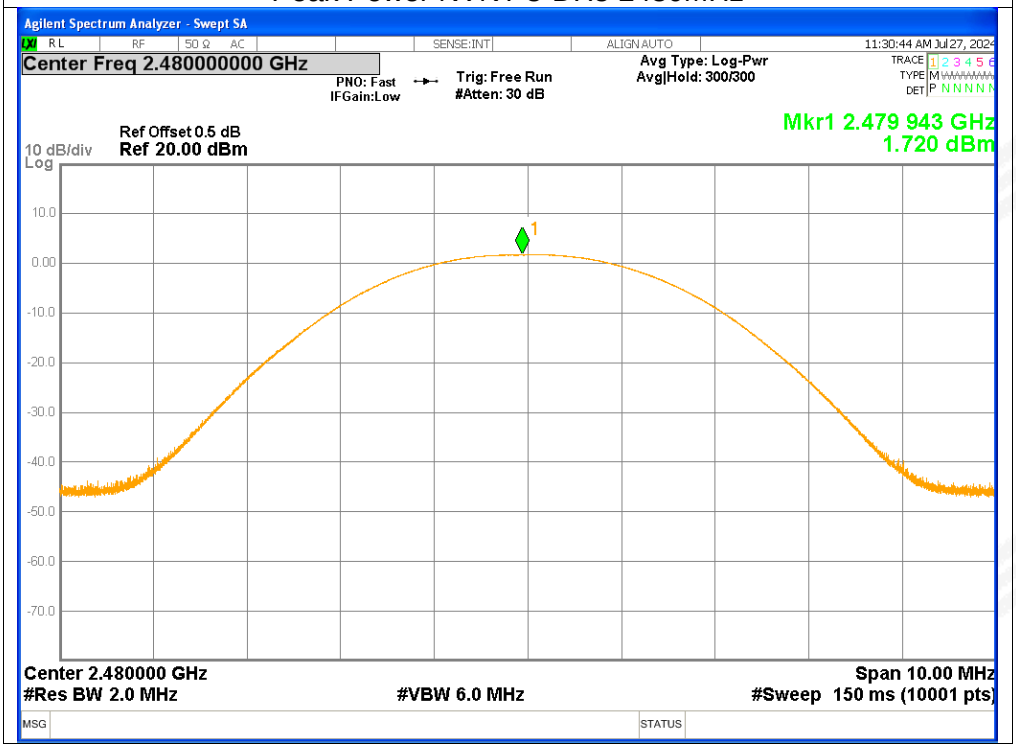
Peak Power NVNT 3-DH5 2402MHz



Peak Power NVNT 3-DH5 2441MHz



Peak Power NVNT 3-DH5 2480MHz

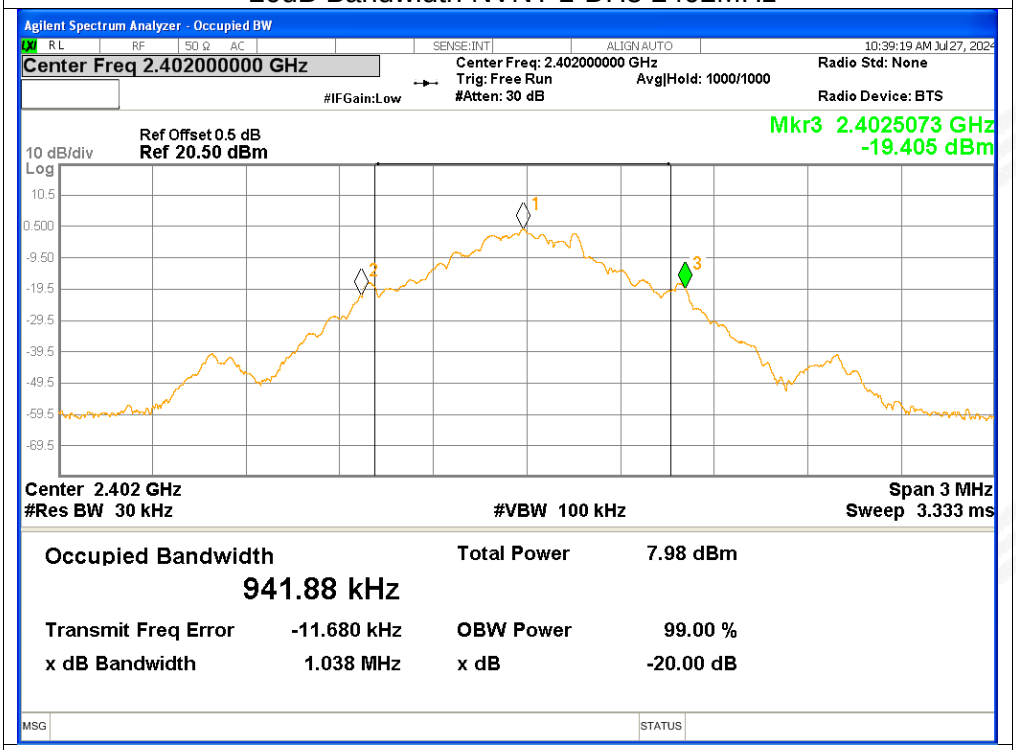


3. -20dB Bandwidth

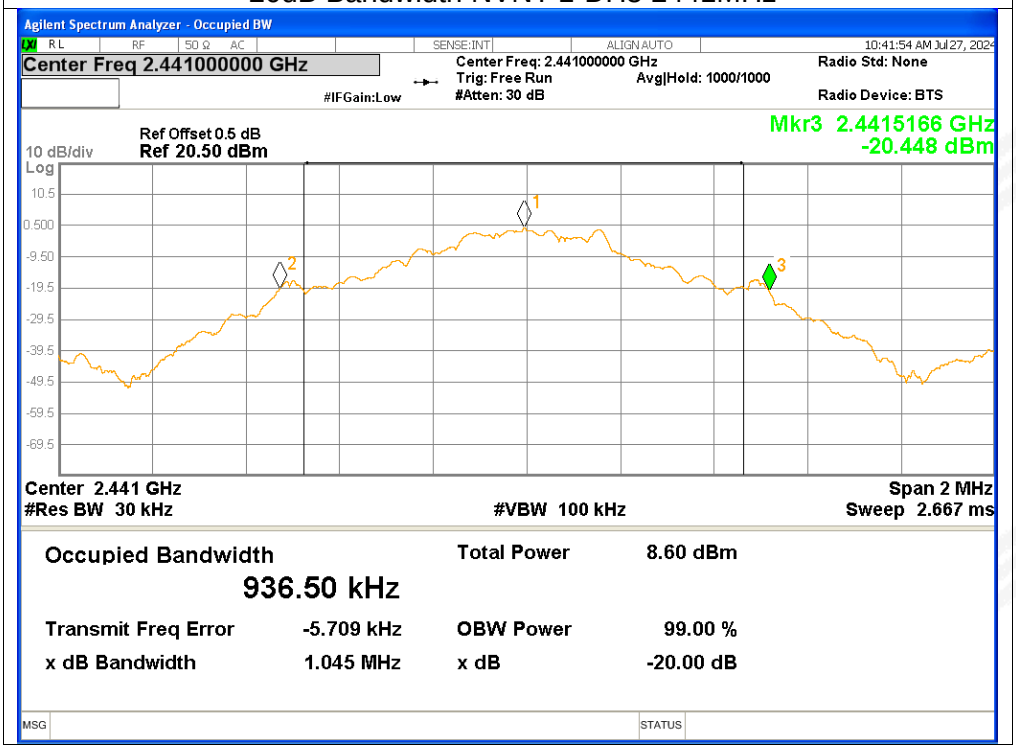
Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	1.0379	Pass
NVNT	1-DH5	2441	1.0445	Pass
NVNT	1-DH5	2480	0.9605	Pass
NVNT	2-DH5	2402	1.1843	Pass
NVNT	2-DH5	2441	1.1835	Pass
NVNT	2-DH5	2480	1.1827	Pass
NVNT	3-DH5	2402	1.2264	Pass
NVNT	3-DH5	2441	1.1933	Pass
NVNT	3-DH5	2480	1.1931	Pass

Test Graphs

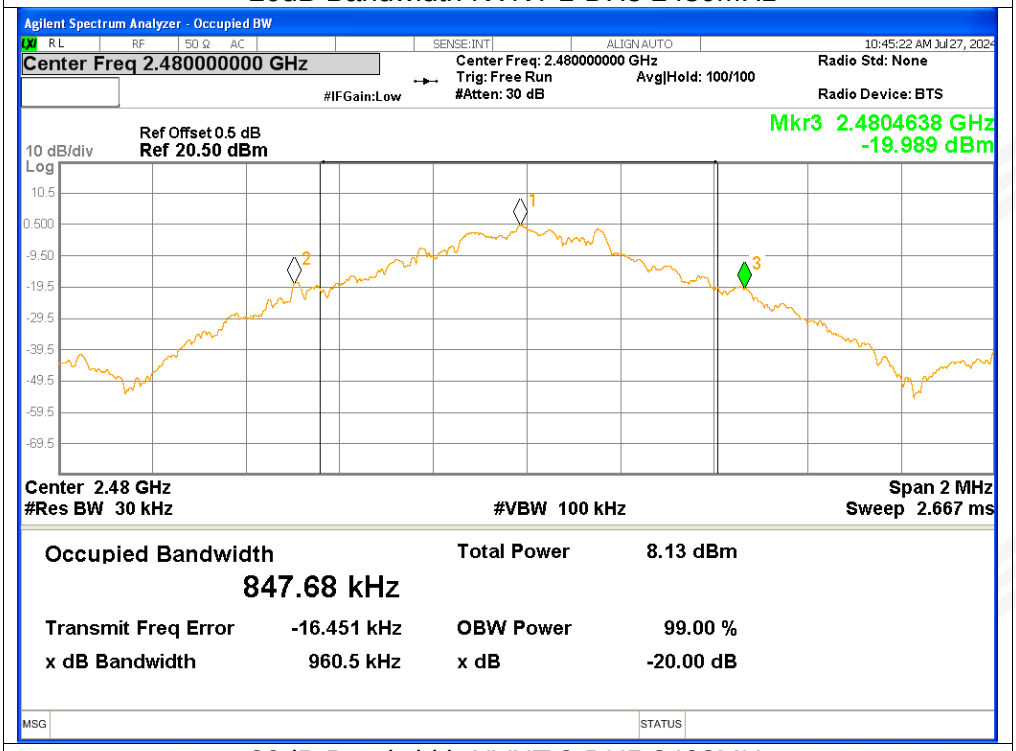
-20dB Bandwidth NVNT 1-DH5 2402MHz



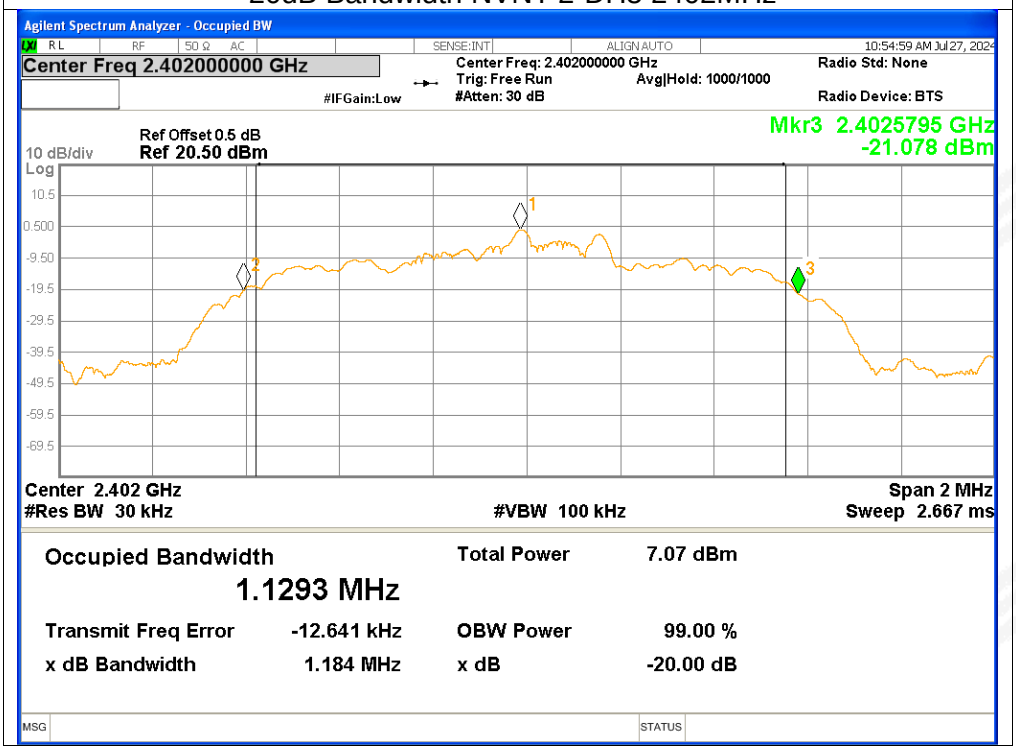
-20dB Bandwidth NVNT 1-DH5 2441MHz



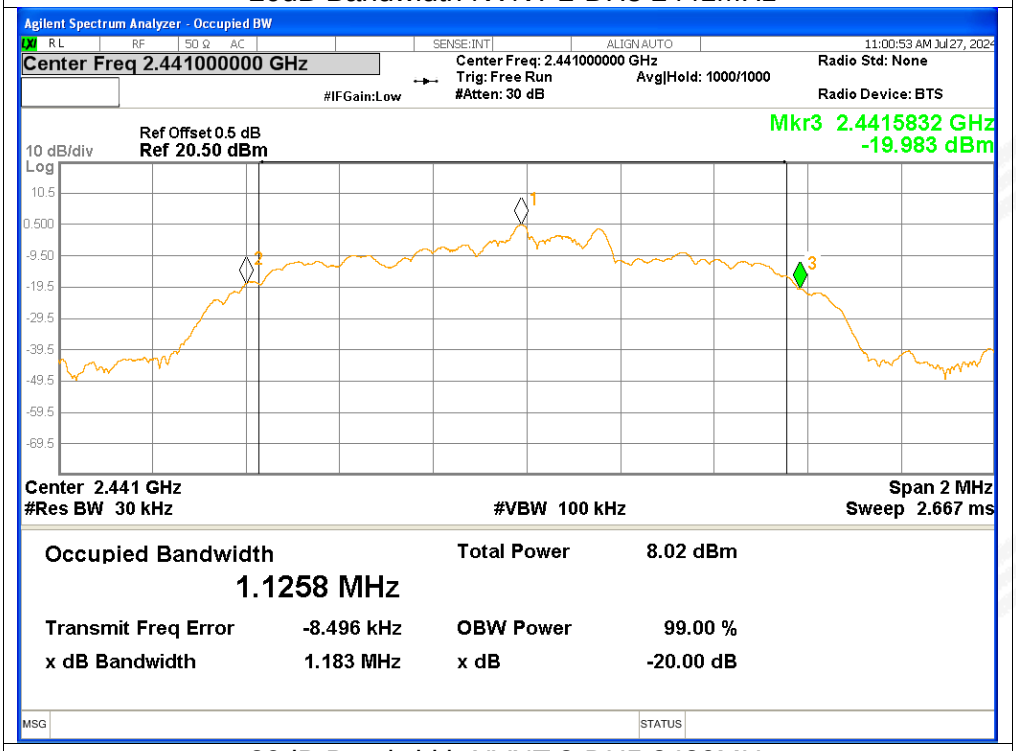
-20dB Bandwidth NVNT 1-DH5 2480MHz



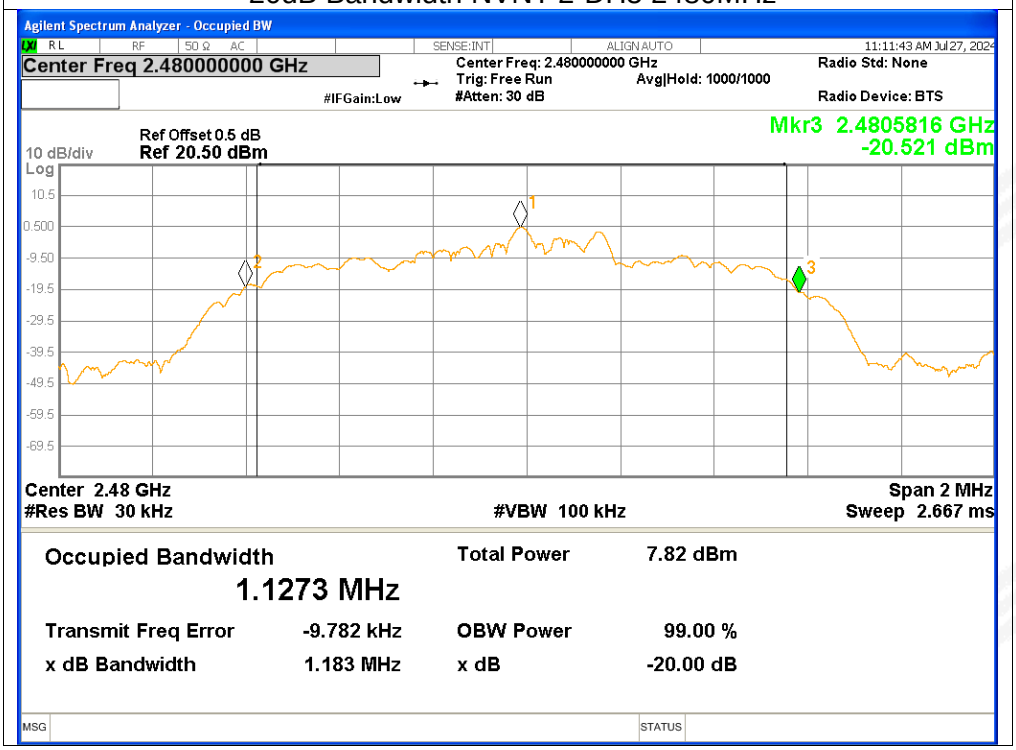
-20dB Bandwidth NVNT 2-DH5 2402MHz



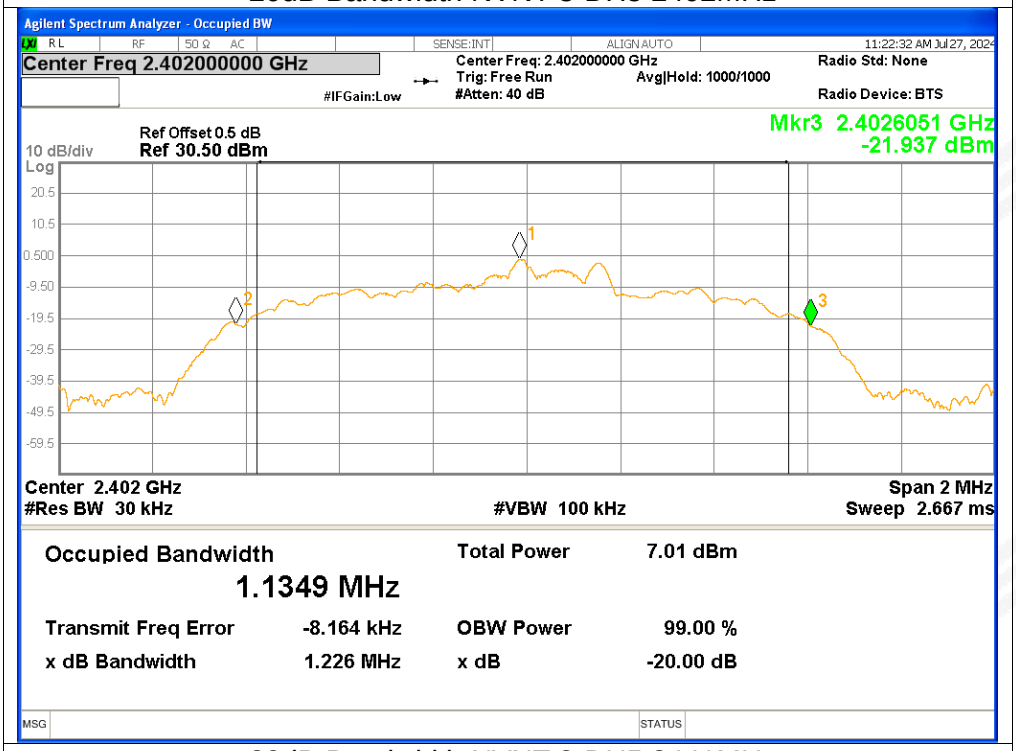
-20dB Bandwidth NVNT 2-DH5 2441MHz



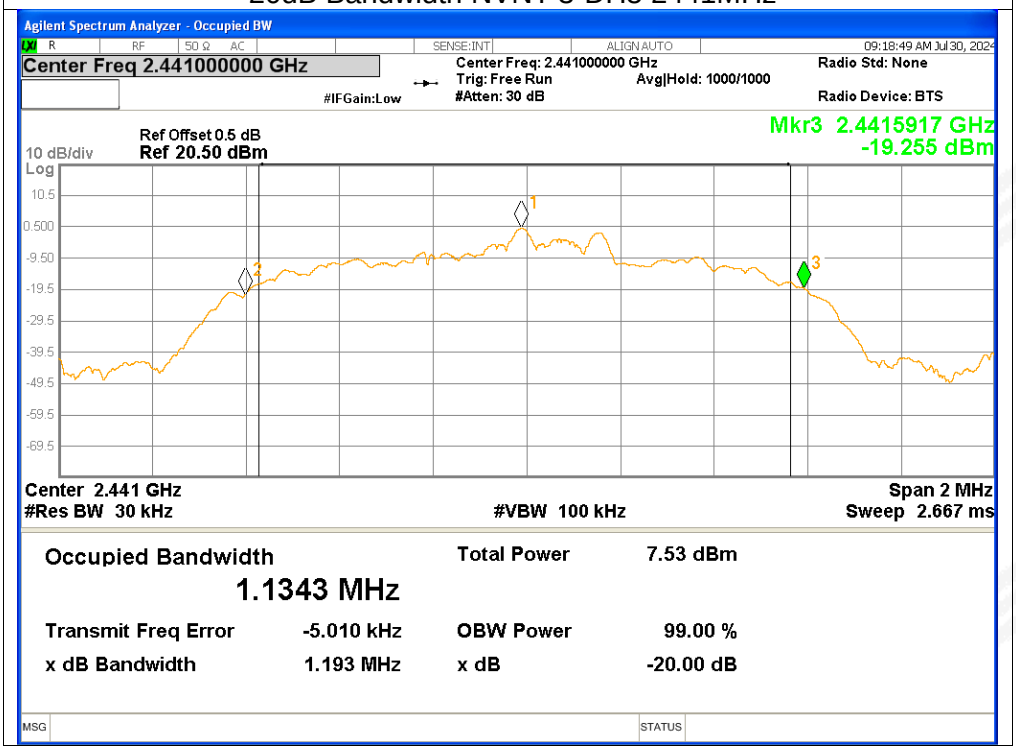
-20dB Bandwidth NVNT 2-DH5 2480MHz



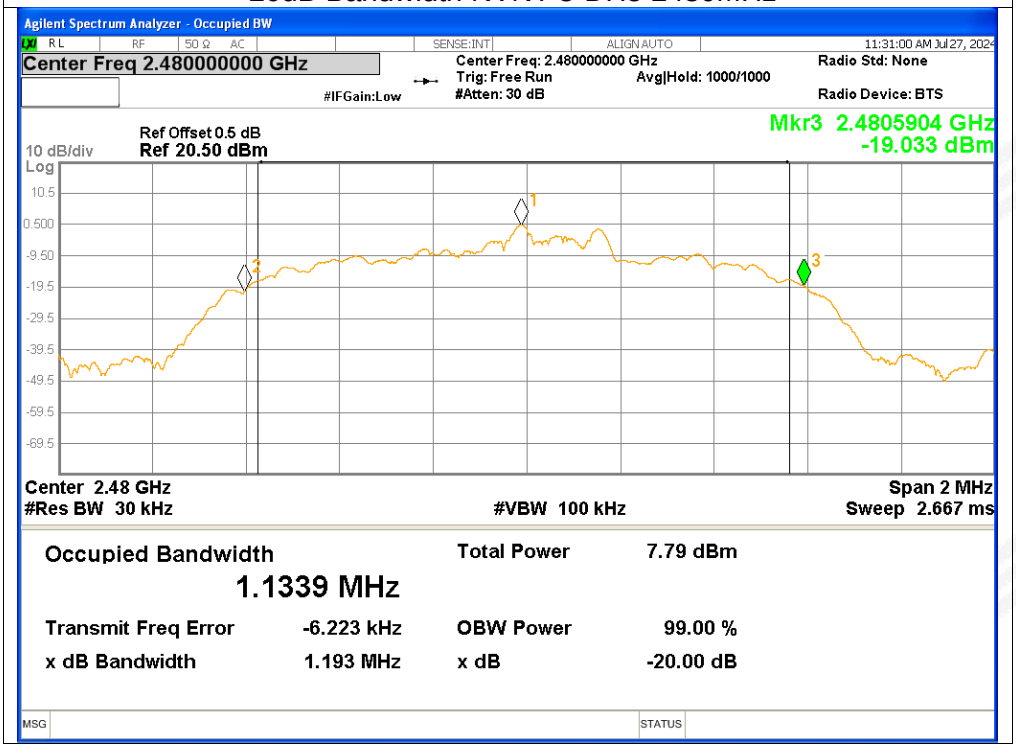
-20dB Bandwidth NVNT 3-DH5 2402MHz



-20dB Bandwidth NVNT 3-DH5 2441MHz



-20dB Bandwidth NVNT 3-DH5 2480MHz

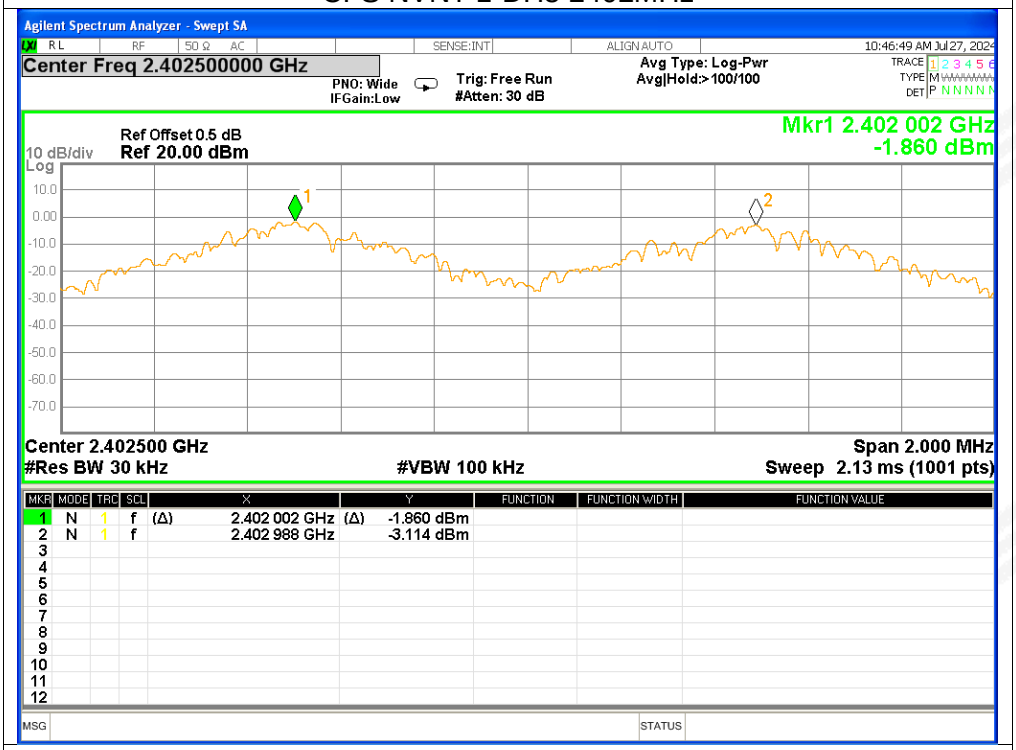


4. Carrier Frequencies Separation

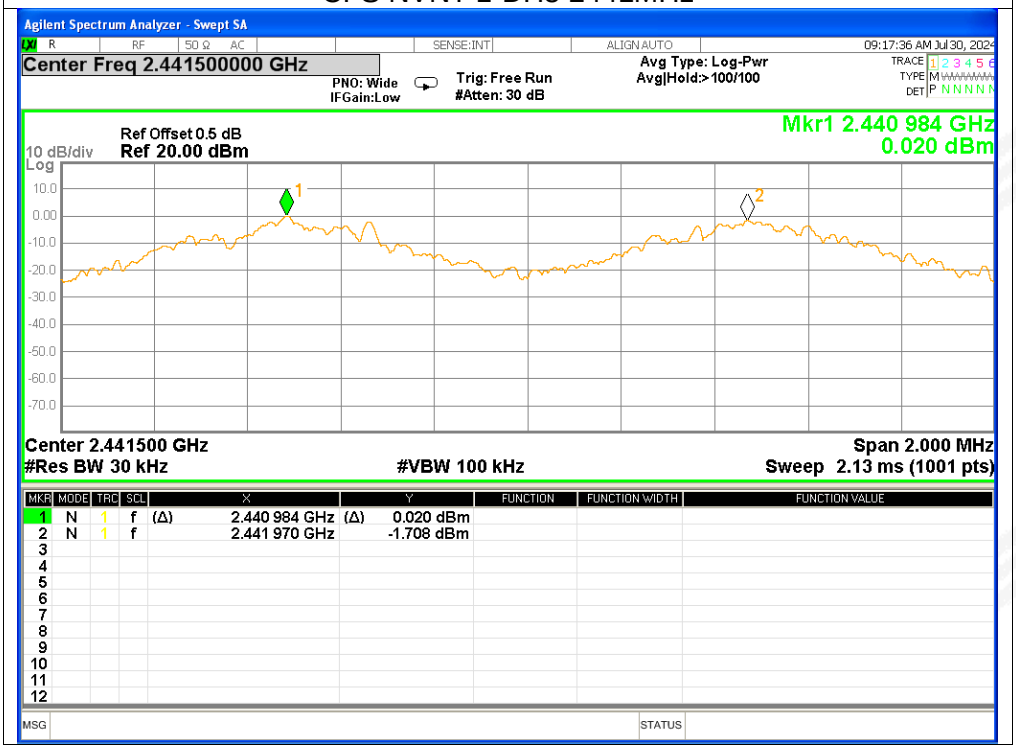
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402.002	2402.988	0.986	>=0.692	Pass
NVNT	1-DH5	2440.984	2441.97	0.986	>=0.696	Pass
NVNT	1-DH5	2479.05	2480.012	0.962	>=0.64	Pass
NVNT	2-DH5	2401.986	2402.984	0.998	>=0.79	Pass
NVNT	2-DH5	2440.924	2442.014	1.09	>=0.789	Pass
NVNT	2-DH5	2478.986	2479.9	0.914	>=0.788	Pass
NVNT	3-DH5	2402.004	2402.928	0.924	>=0.818	Pass
NVNT	3-DH5	2441.006	2442.148	1.142	>=0.83	Pass
NVNT	3-DH5	2478.928	2480.166	1.238	>=0.795	Pass

Test Graphs

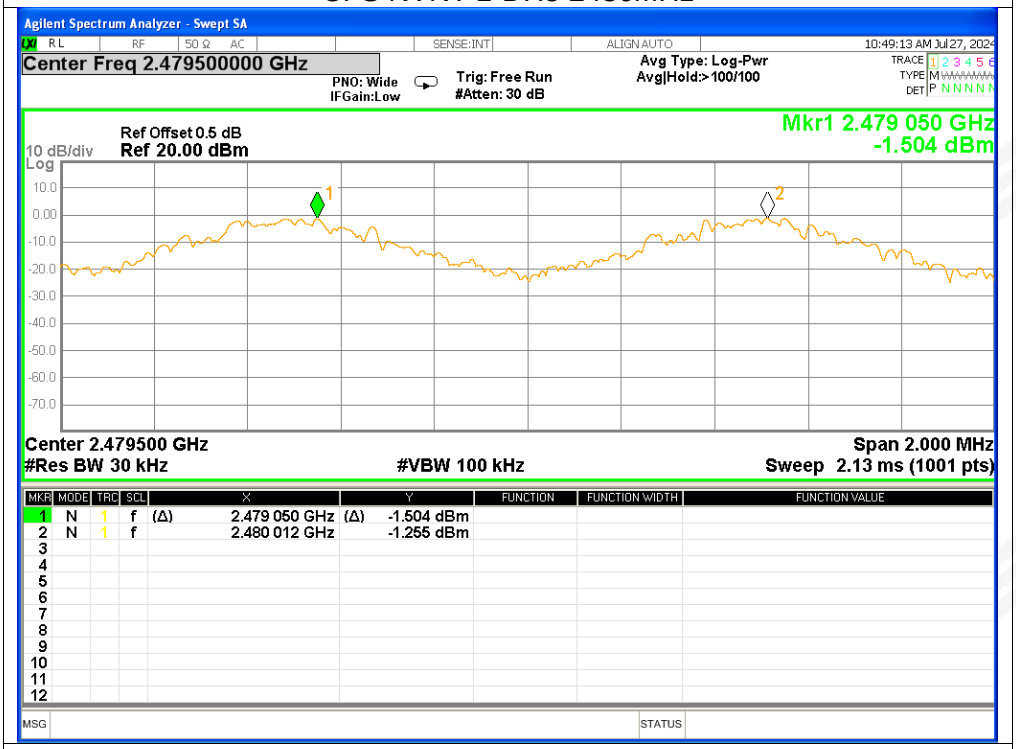
CFS NVNT 1-DH5 2402MHz



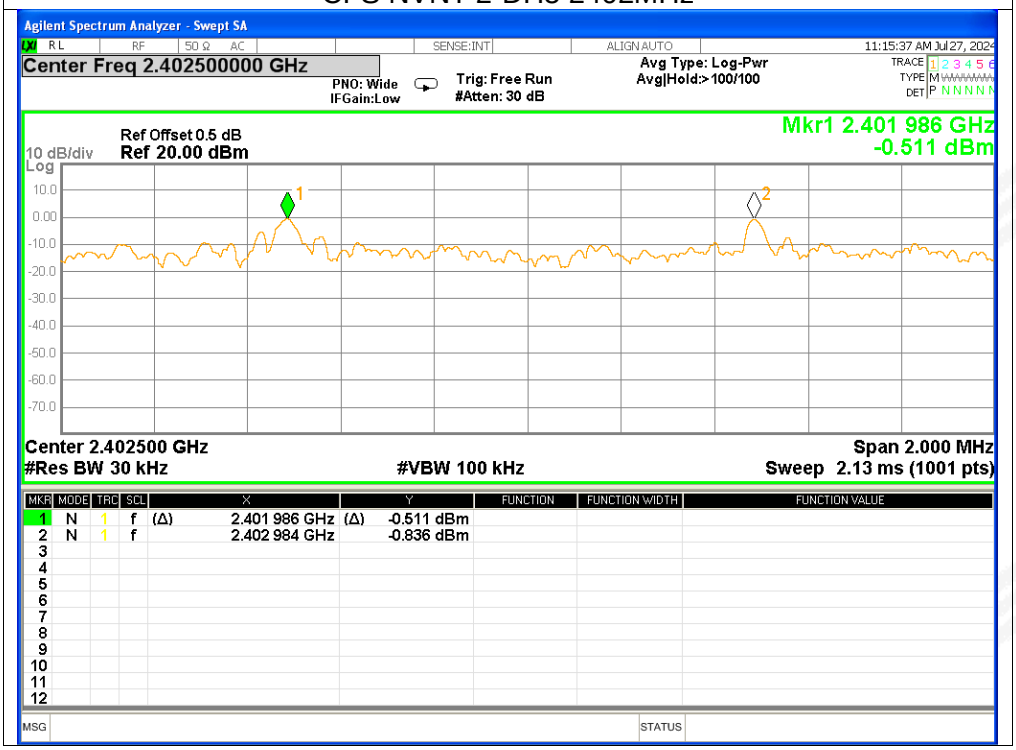
CFS NVNT 1-DH5 2441MHz



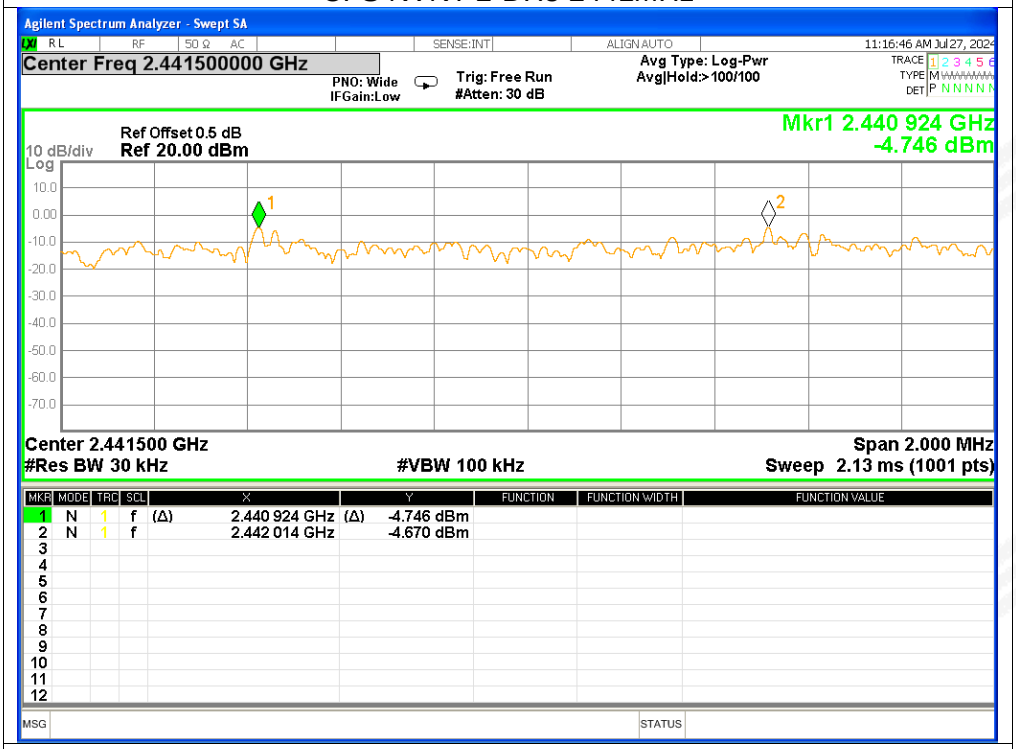
CFS NVNT 1-DH5 2480MHz



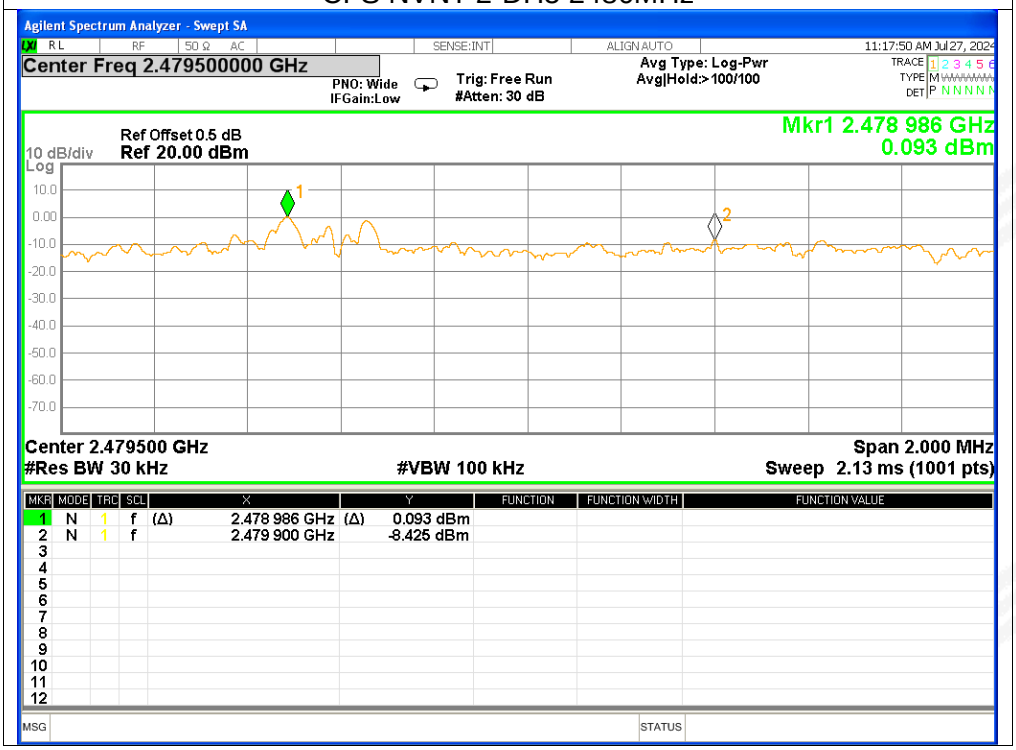
CFS NVNT 2-DH5 2402MHz



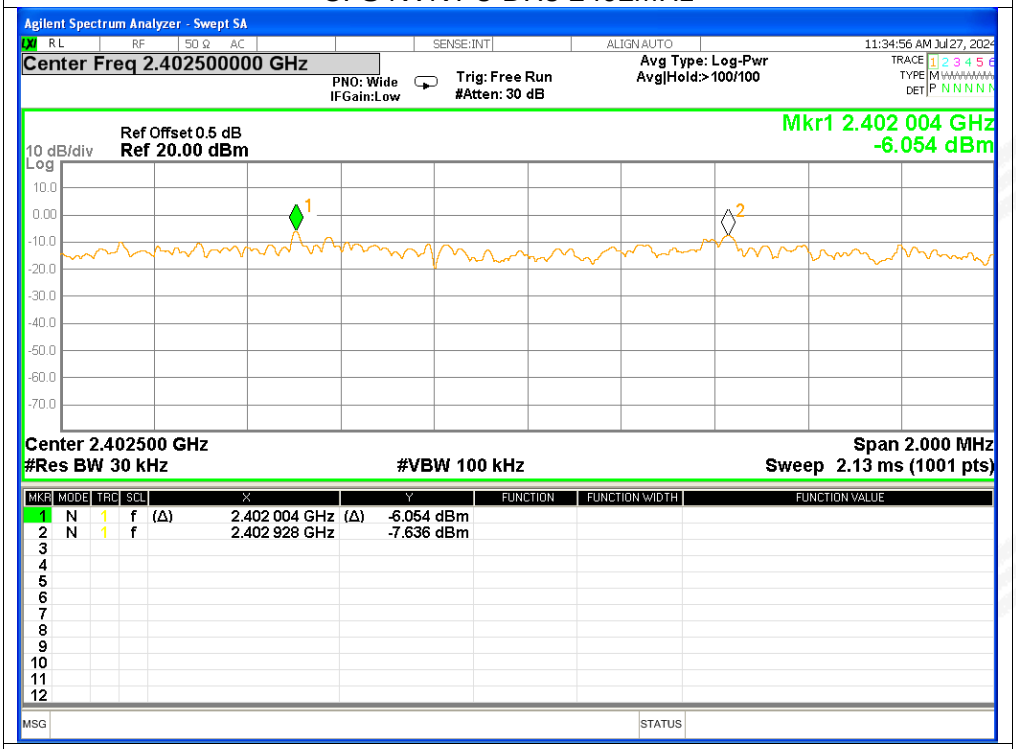
CFS NVNT 2-DH5 2441MHz



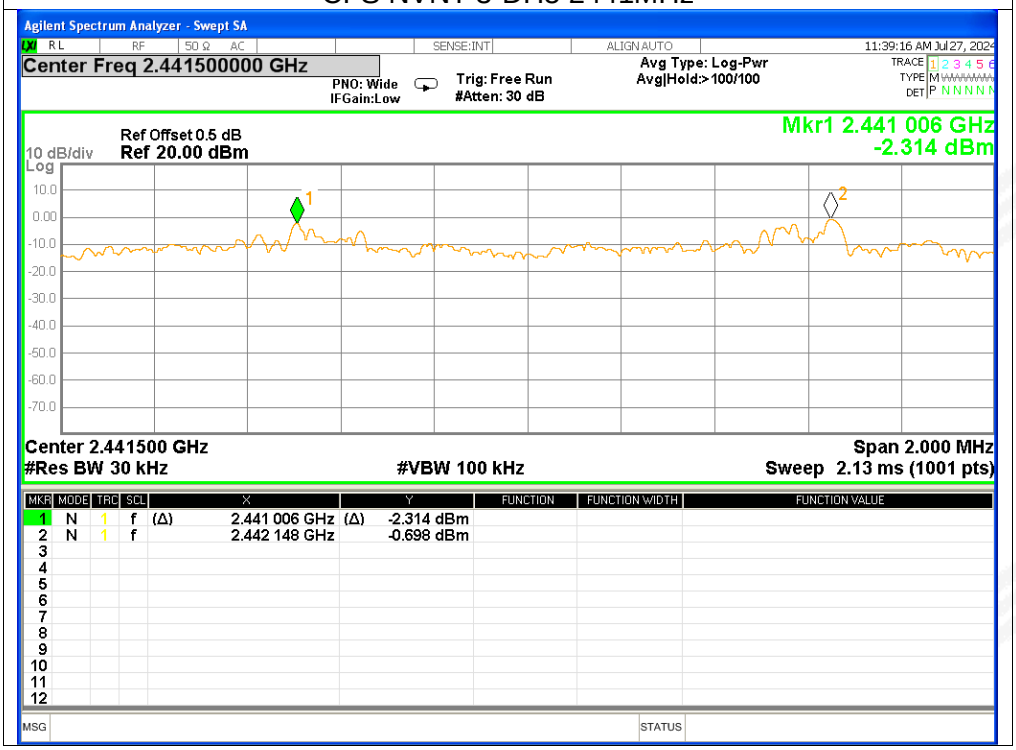
CFS NVNT 2-DH5 2480MHz



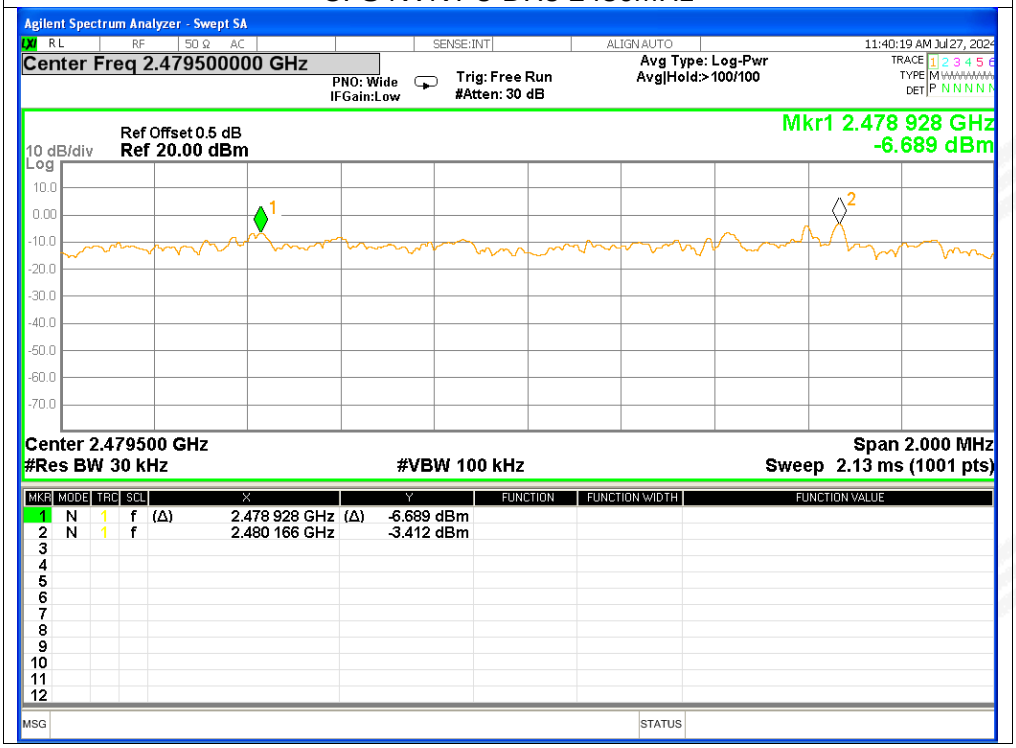
CFS NVNT 3-DH5 2402MHz



CFS NVNT 3-DH5 2441MHz



CFS NVNT 3-DH5 2480MHz

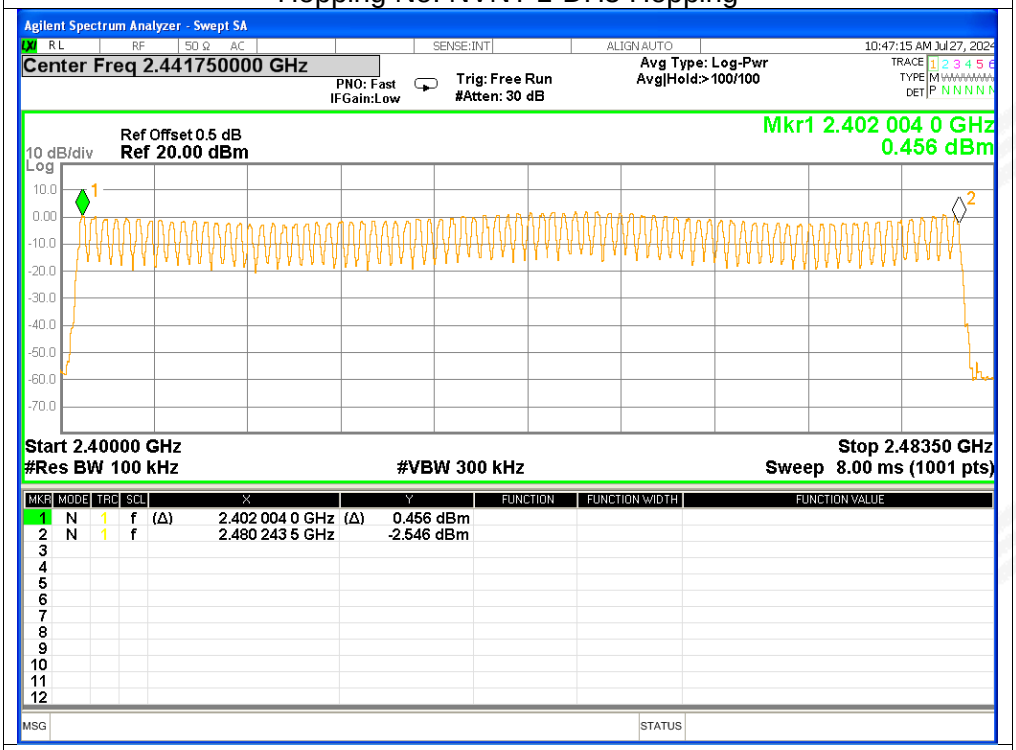


5. Number of Hopping Channel

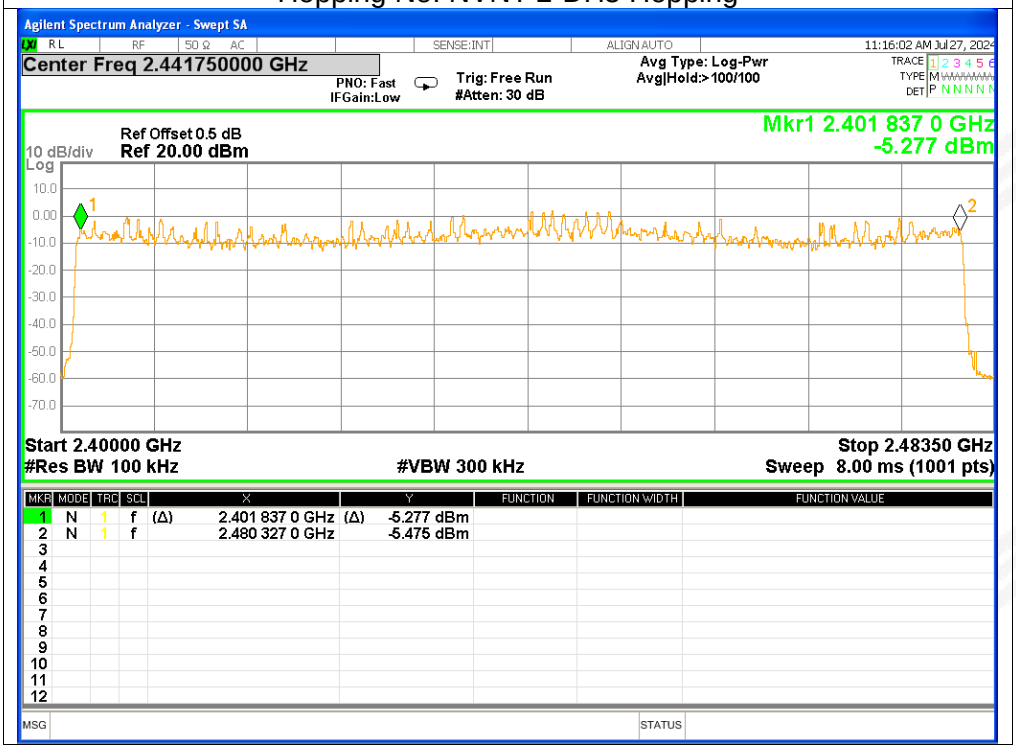
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH5	79	>=15	Pass
NVNT	2-DH5	79	>=15	Pass
NVNT	3-DH5	79	>=15	Pass

Test Graphs

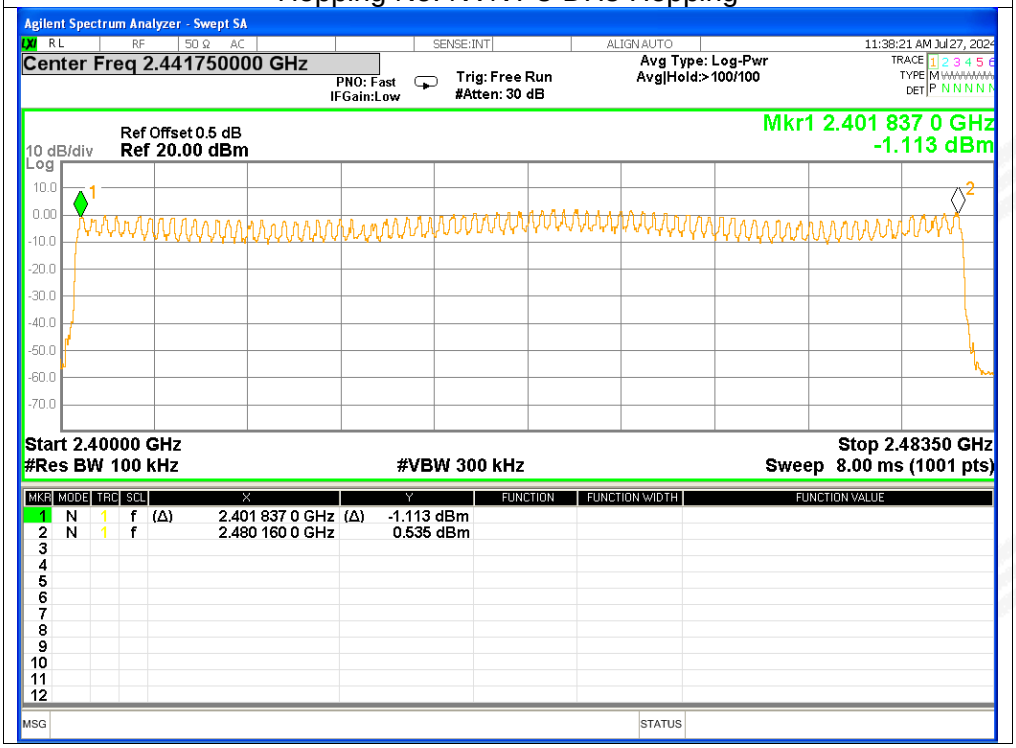
Hopping No. NVNT 1-DH5 Hopping



Hopping No. NVNT 2-DH5 Hopping



Hopping No. NVNT 3-DH5 Hopping

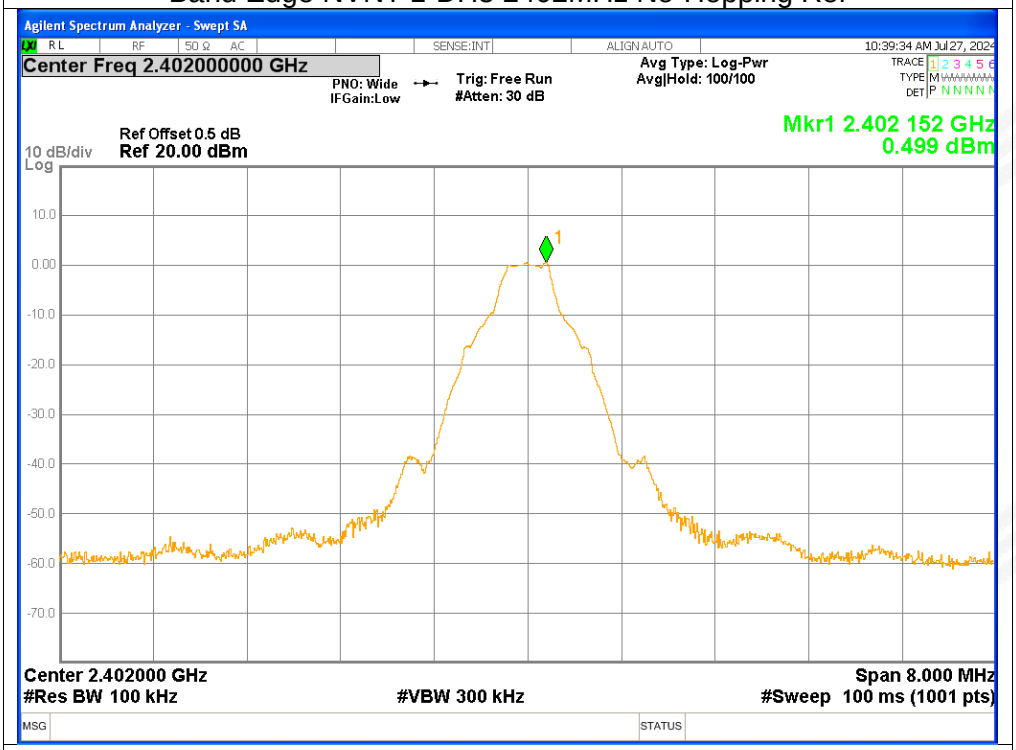


6. Band Edge

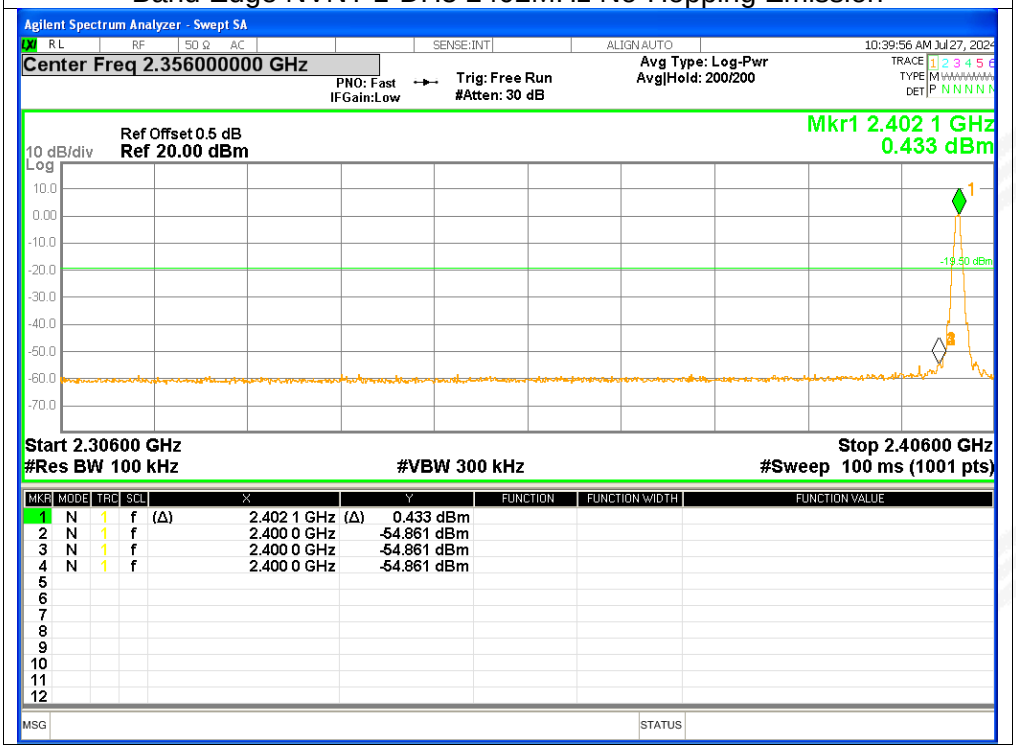
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	No-Hopping	-55.36	<=-20	Pass
NVNT	1-DH5	2480	No-Hopping	-59.79	<=-20	Pass
NVNT	2-DH5	2402	No-Hopping	-52.85	<=-20	Pass
NVNT	2-DH5	2480	No-Hopping	-59.78	<=-20	Pass
NVNT	3-DH5	2402	No-Hopping	-51.44	<=-20	Pass
NVNT	3-DH5	2480	No-Hopping	-59.68	<=-20	Pass

Test Graphs

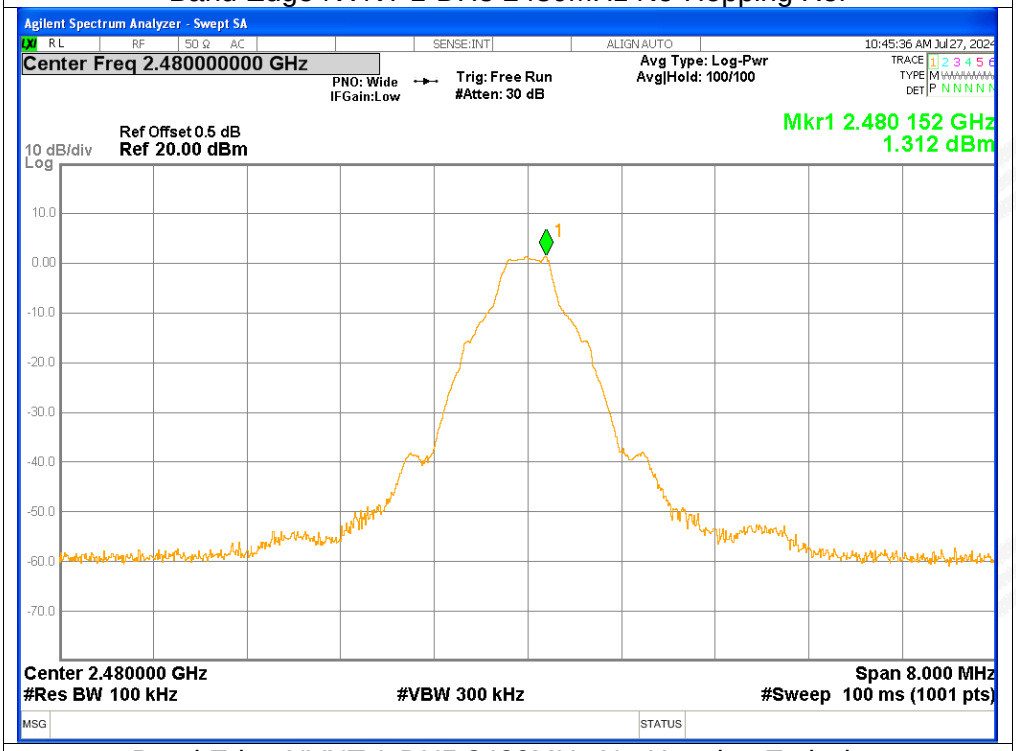
Band Edge NVNT 1-DH5 2402MHz No-Hopping Ref



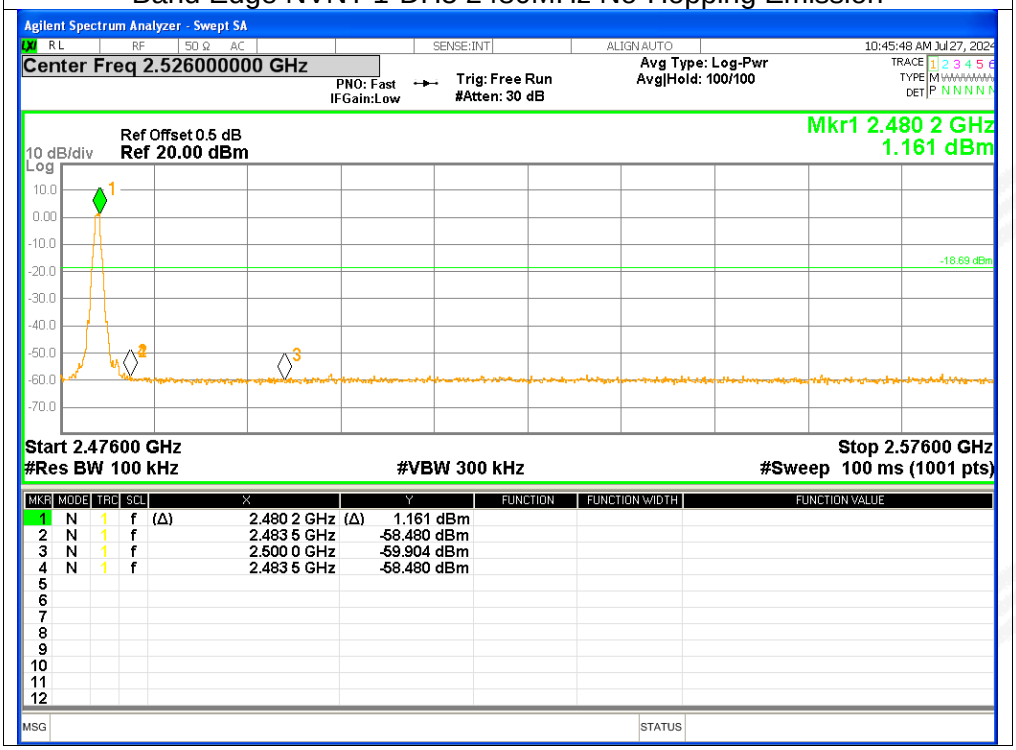
Band Edge NVNT 1-DH5 2402MHz No-Hopping Emission



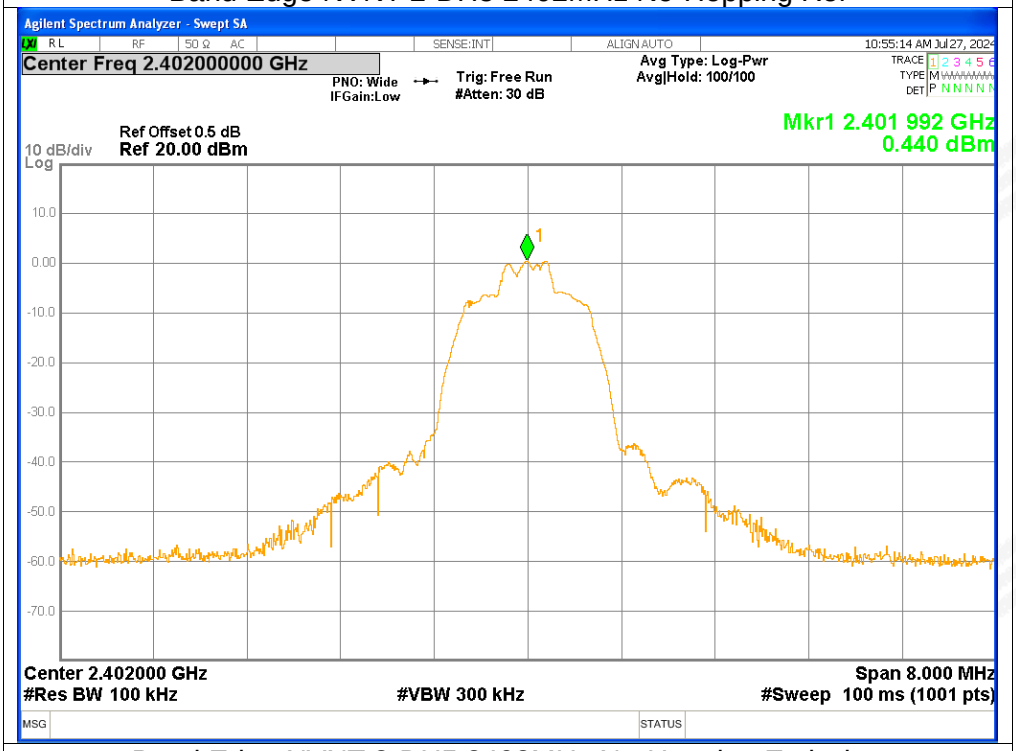
Band Edge NVNT 1-DH5 2480MHz No-Hopping Ref



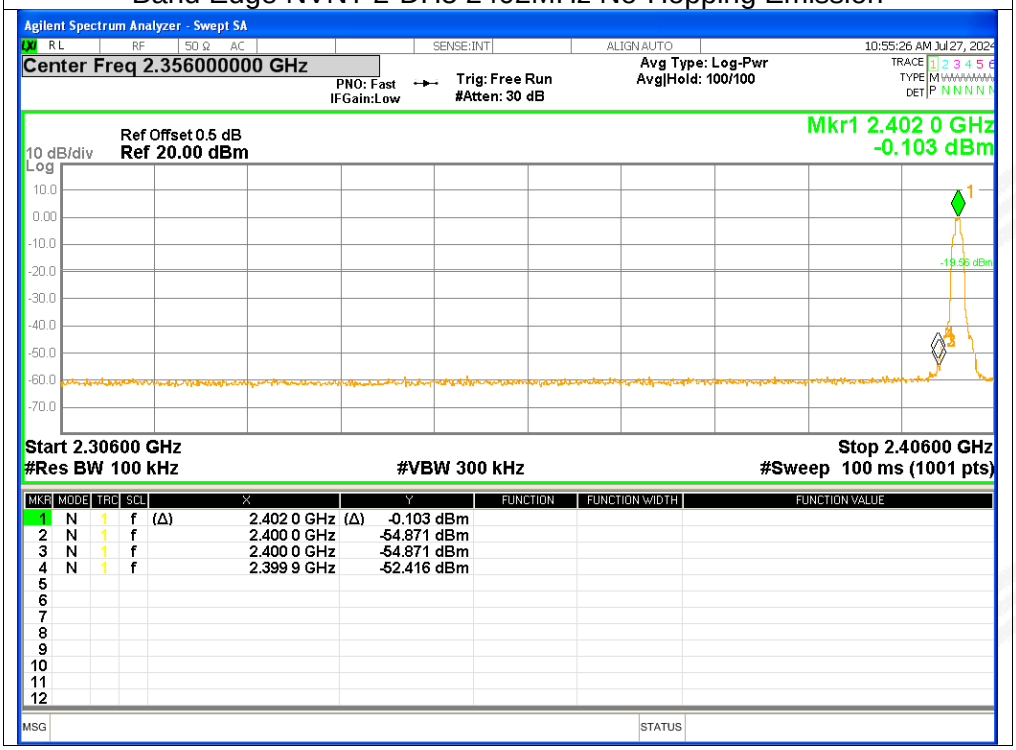
Band Edge NVNT 1-DH5 2480MHz No-Hopping Emission



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

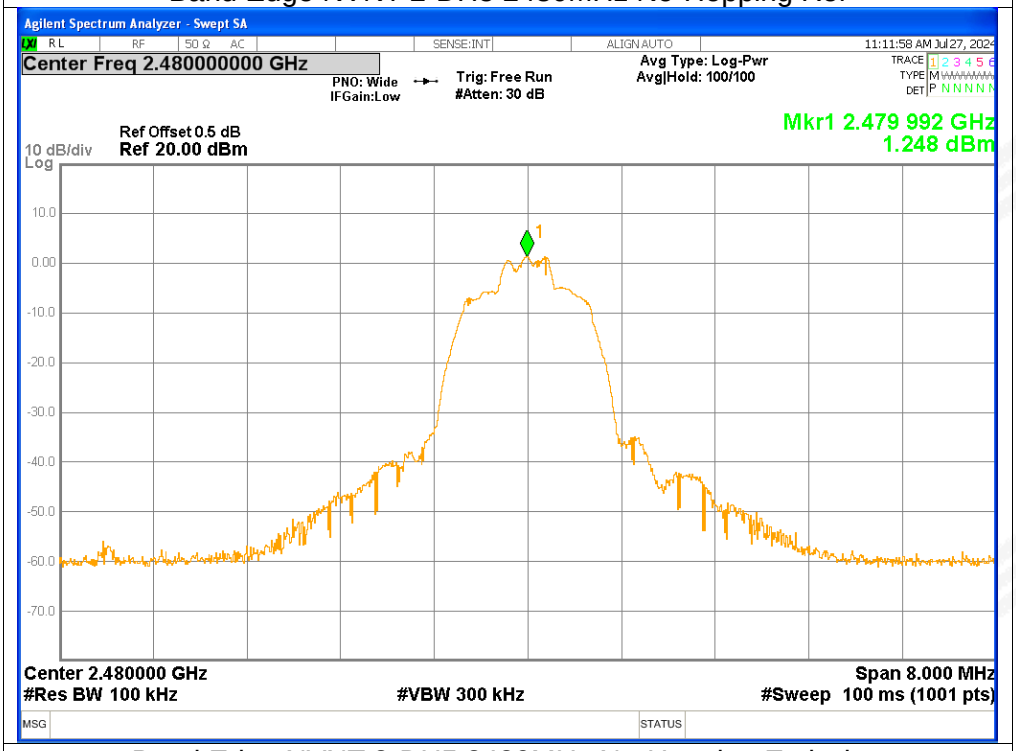


Band Edge NVNT 2-DH5 2402MHz No-Hopping Emission

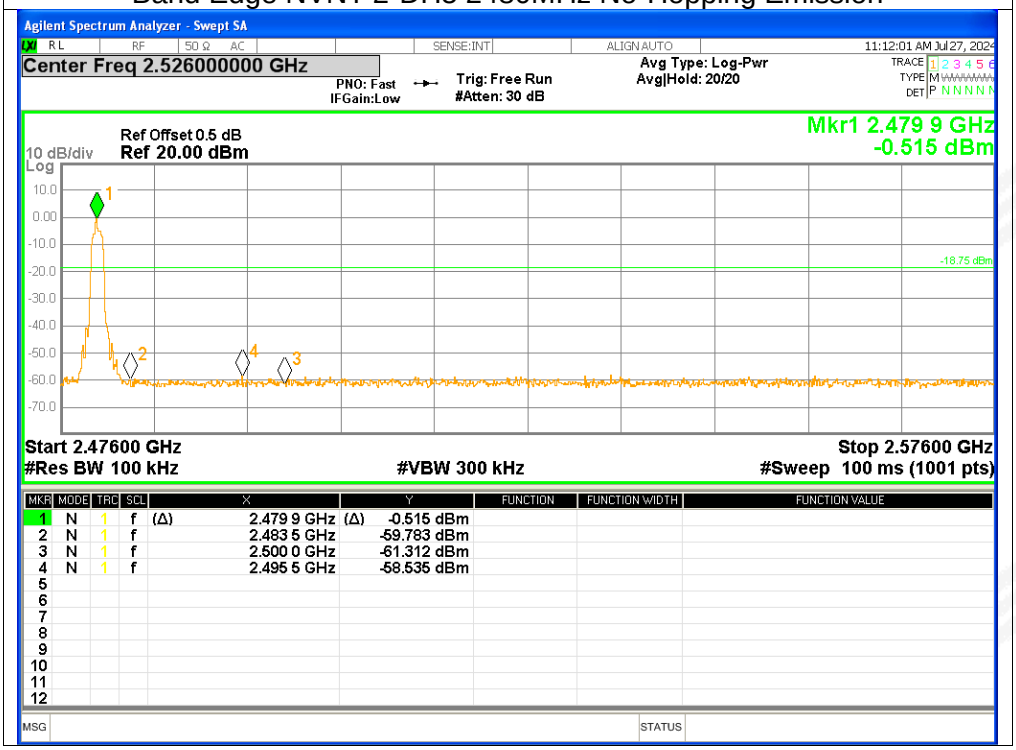


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.402 0 GHz	(Δ) -0.103 dBm			
2	N	1	f	2.400 0 GHz	-54.871 dBm			
3	N	1	f	2.400 0 GHz	-54.871 dBm			
4	N	1	f	2.399 9 GHz	-52.416 dBm			
5								
6								
7								
8								
9								
10								
11								
12								

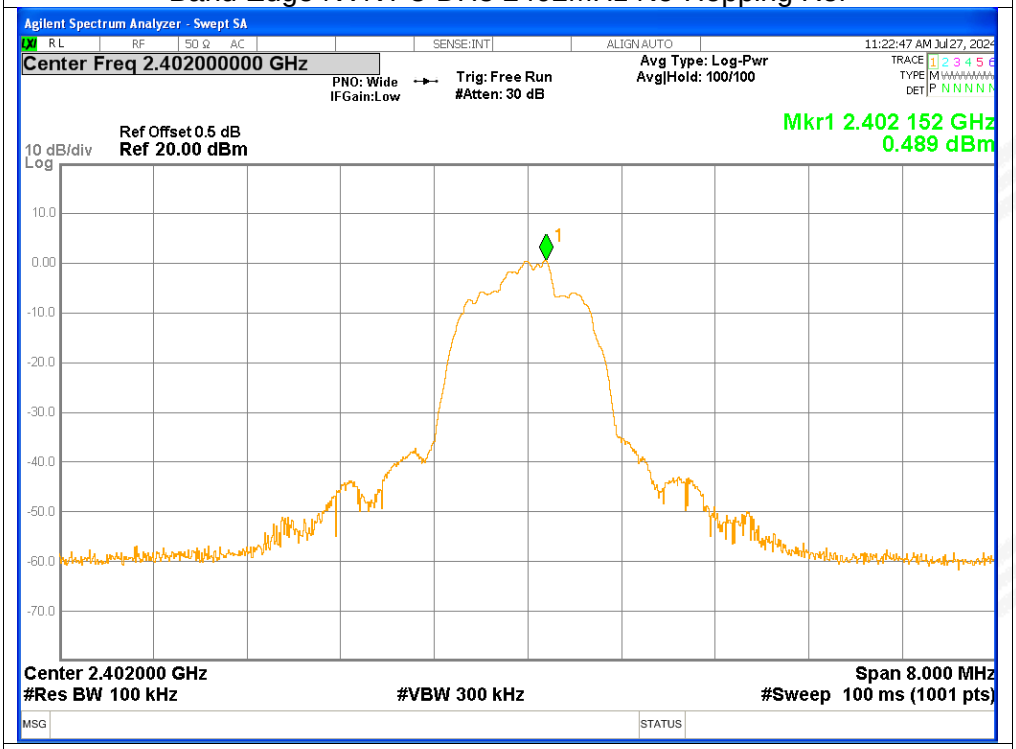
Band Edge NVNT 2-DH5 2480MHz No-Hopping Ref



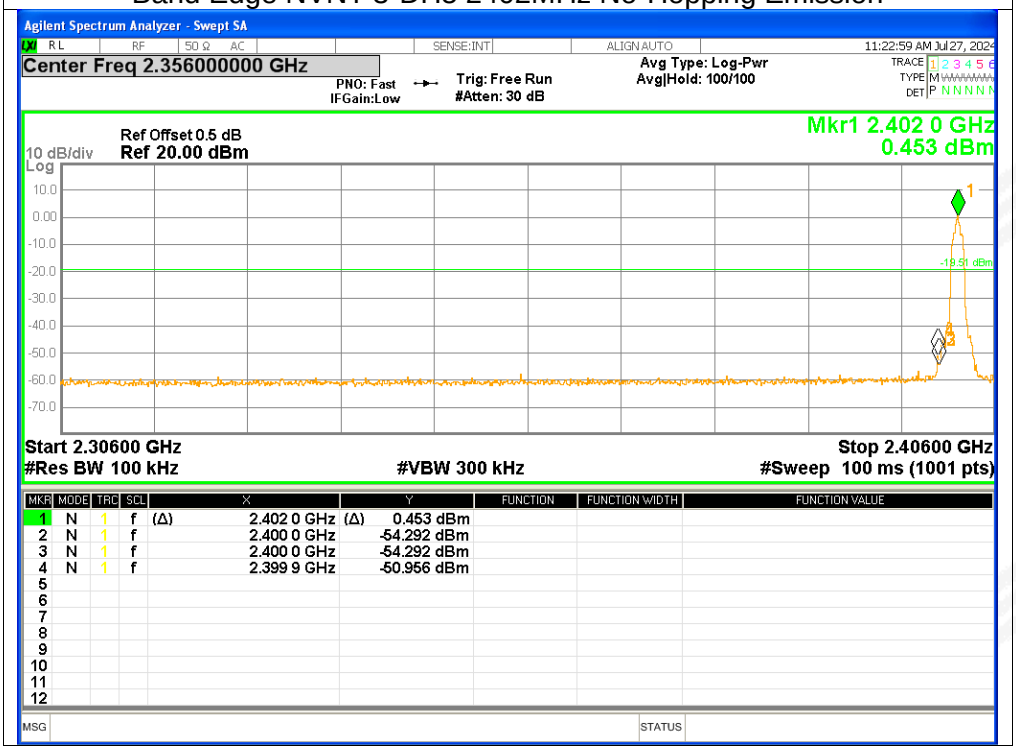
Band Edge NVNT 2-DH5 2480MHz No-Hopping Emission



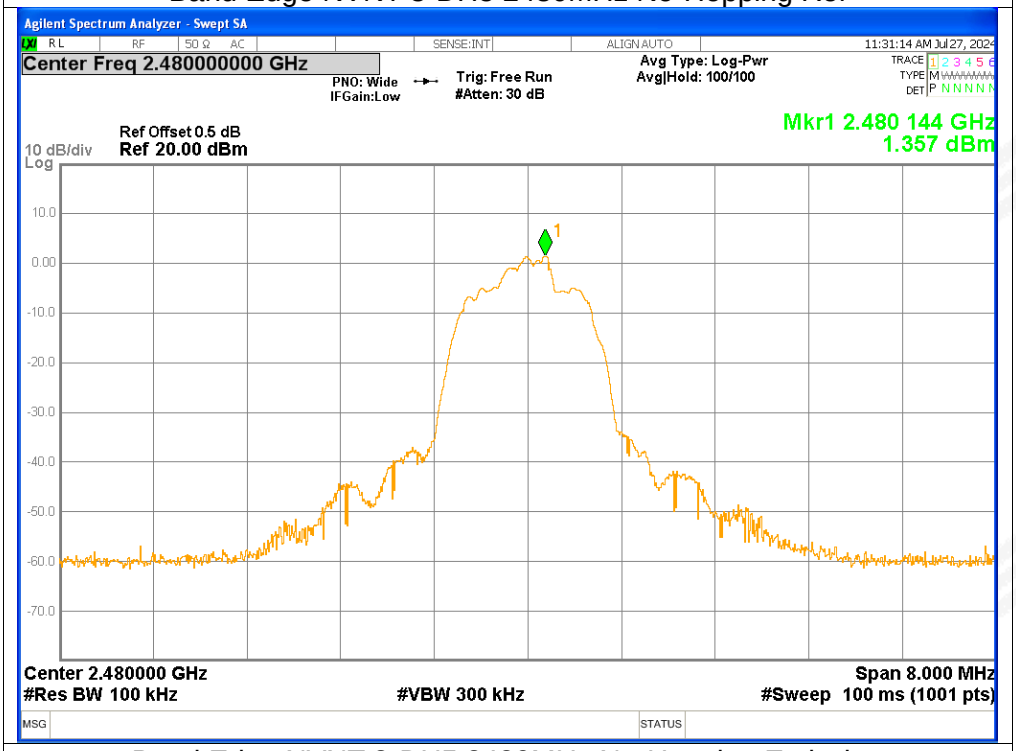
Band Edge NVNT 3-DH5 2402MHz No-Hopping Ref



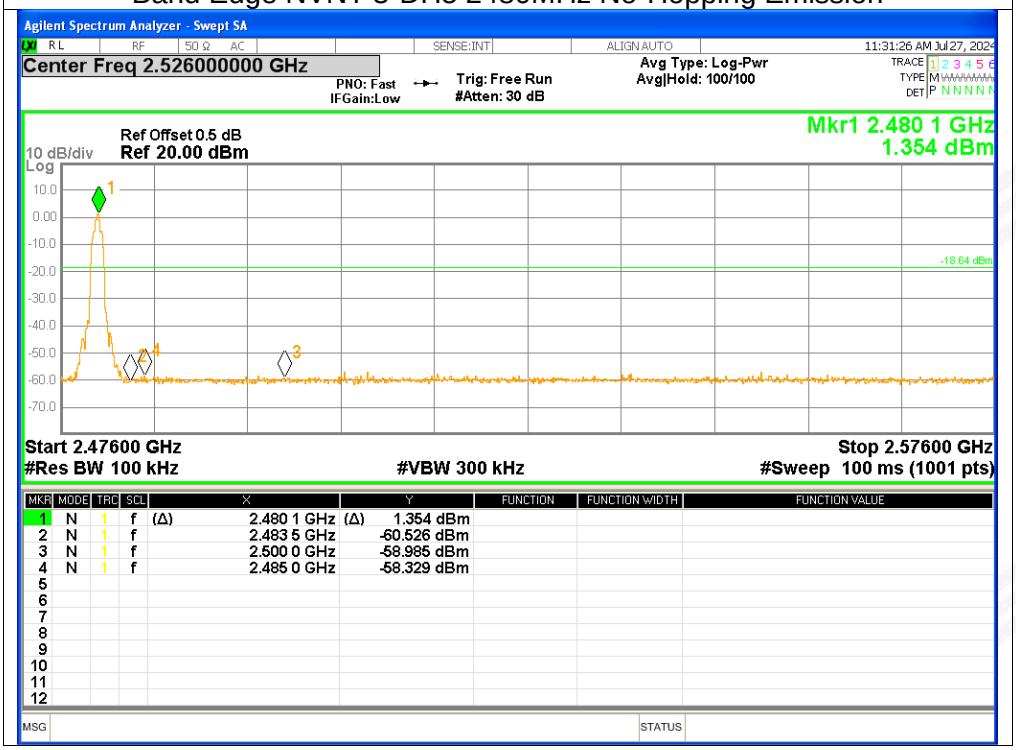
Band Edge NVNT 3-DH5 2402MHz No-Hopping Emission



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



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

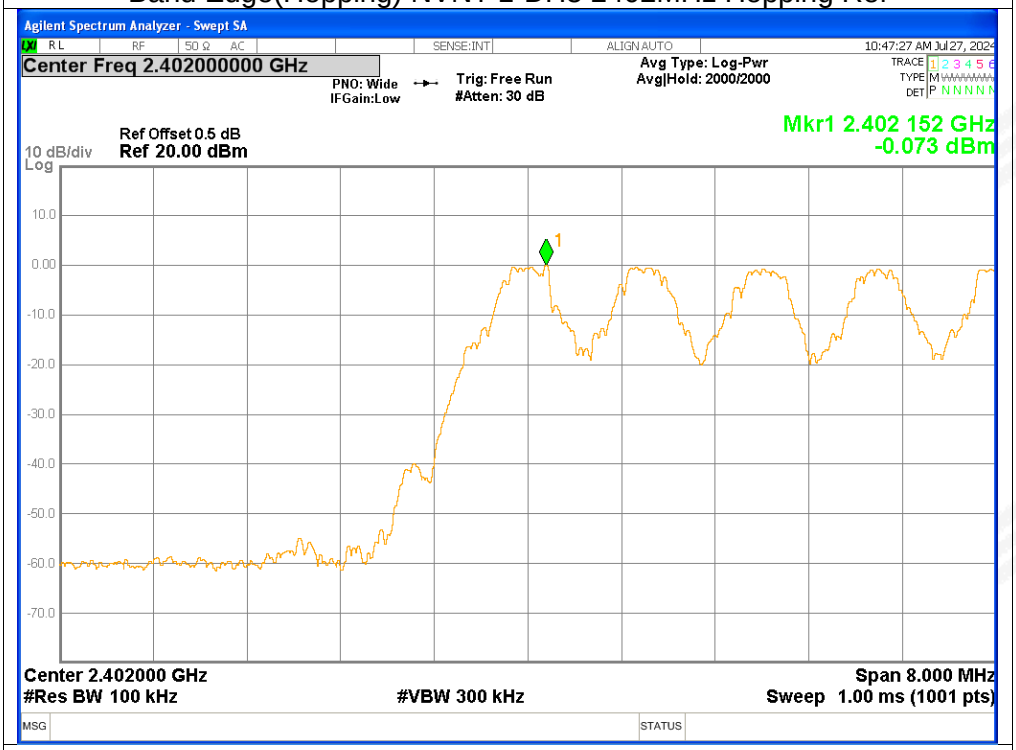


7. Band Edge(Hopping)

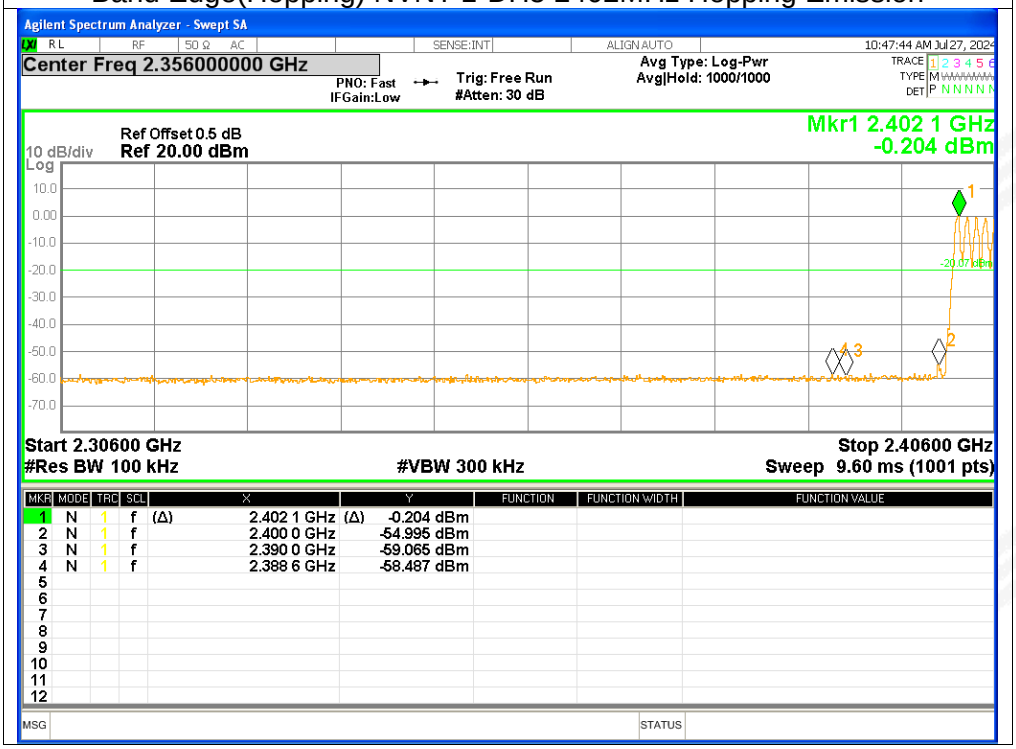
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Hopping	-58.41	<=-20	Pass
NVNT	1-DH5	2480	Hopping	-58.36	<=-20	Pass
NVNT	2-DH5	2402	Hopping	-57.65	<=-20	Pass
NVNT	2-DH5	2480	Hopping	-58.37	<=-20	Pass
NVNT	3-DH5	2402	Hopping	-56.79	<=-20	Pass
NVNT	3-DH5	2480	Hopping	-58.04	<=-20	Pass

Test Graphs

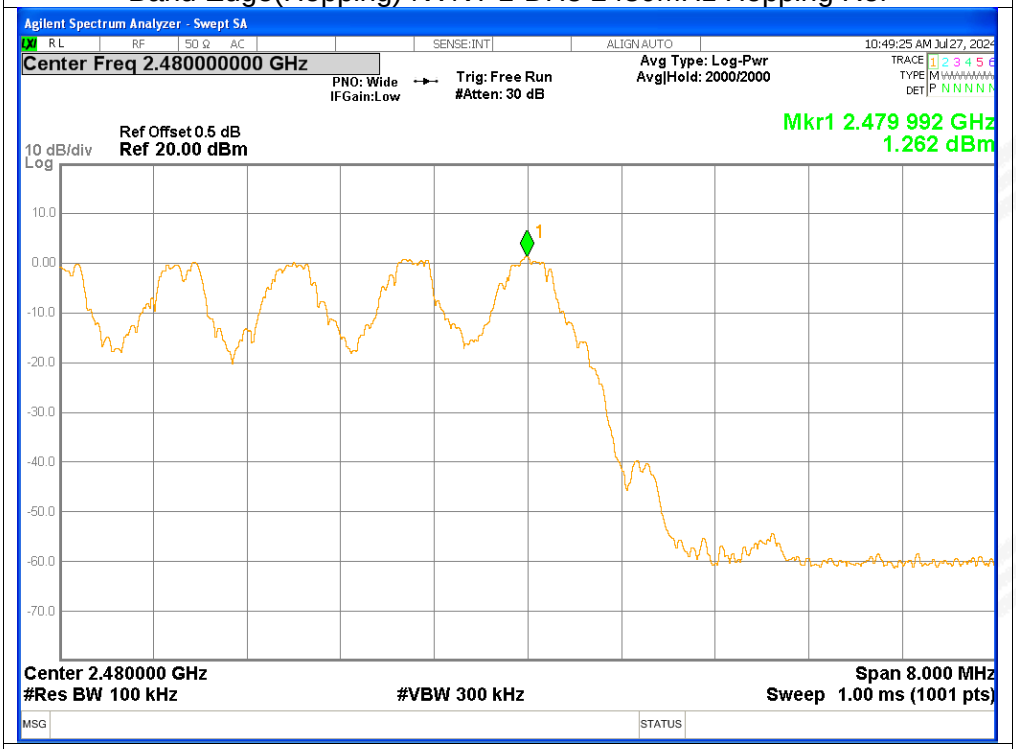
Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Ref



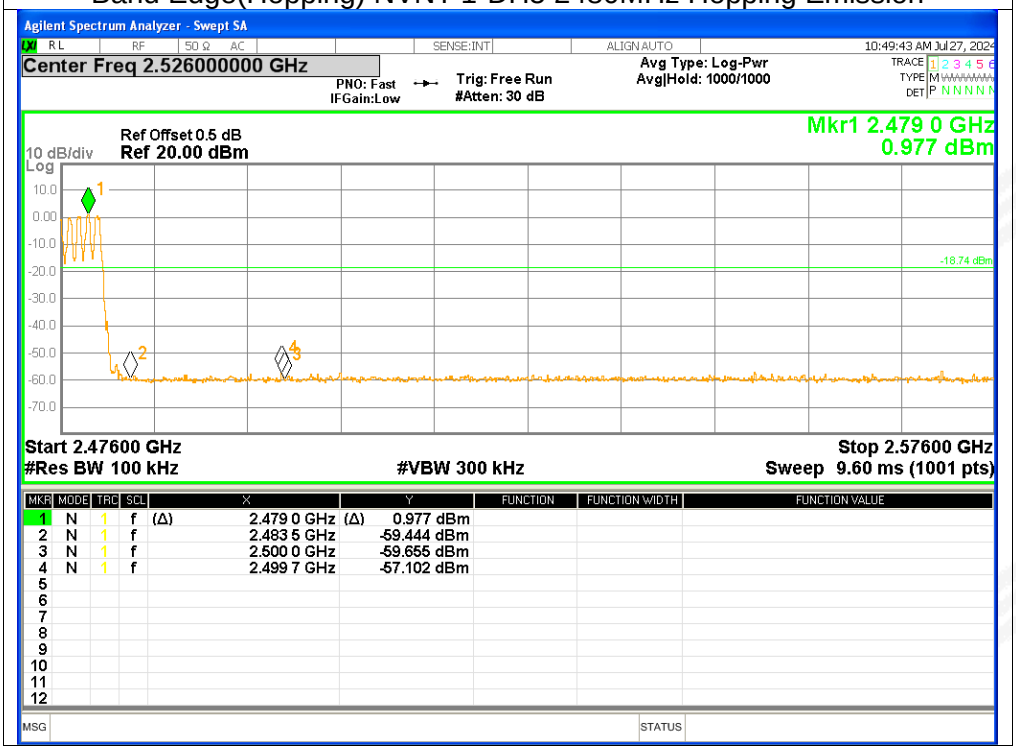
Band Edge(Hopping) NVNT 1-DH5 2402MHz Hopping Emission



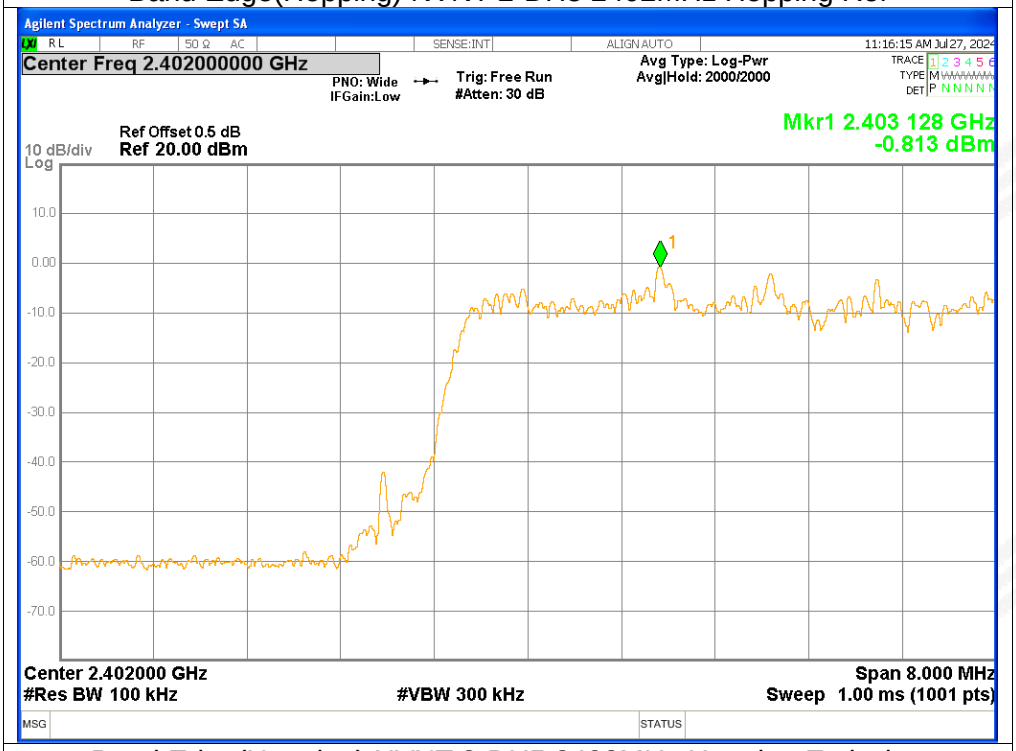
Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Ref



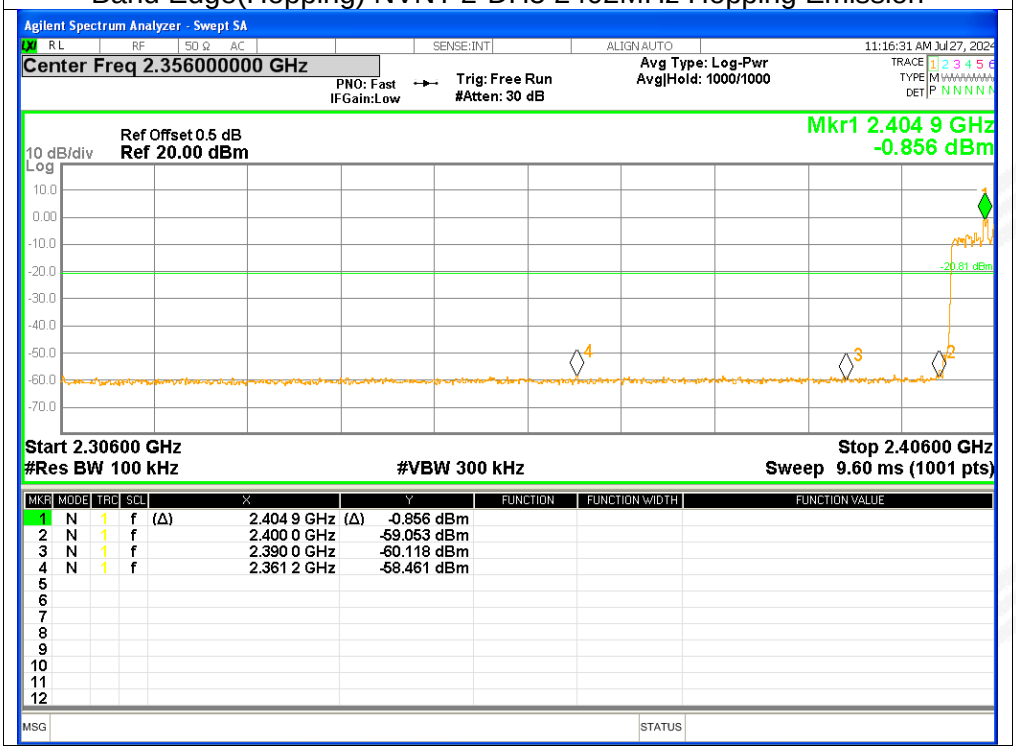
Band Edge(Hopping) NVNT 1-DH5 2480MHz Hopping Emission



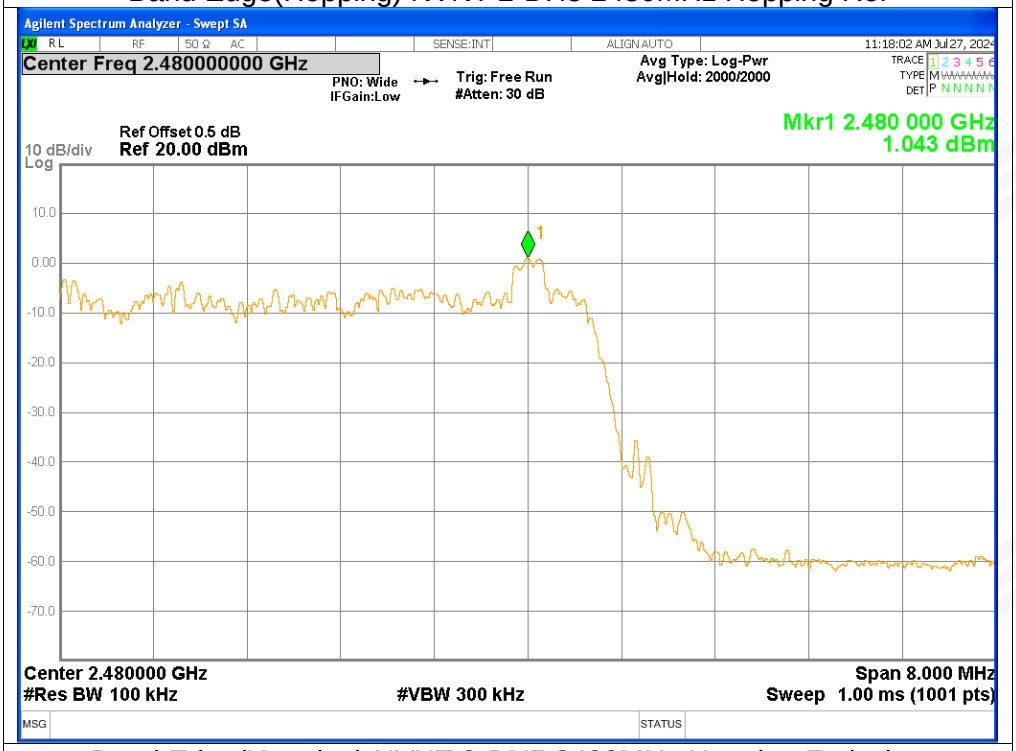
Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Ref



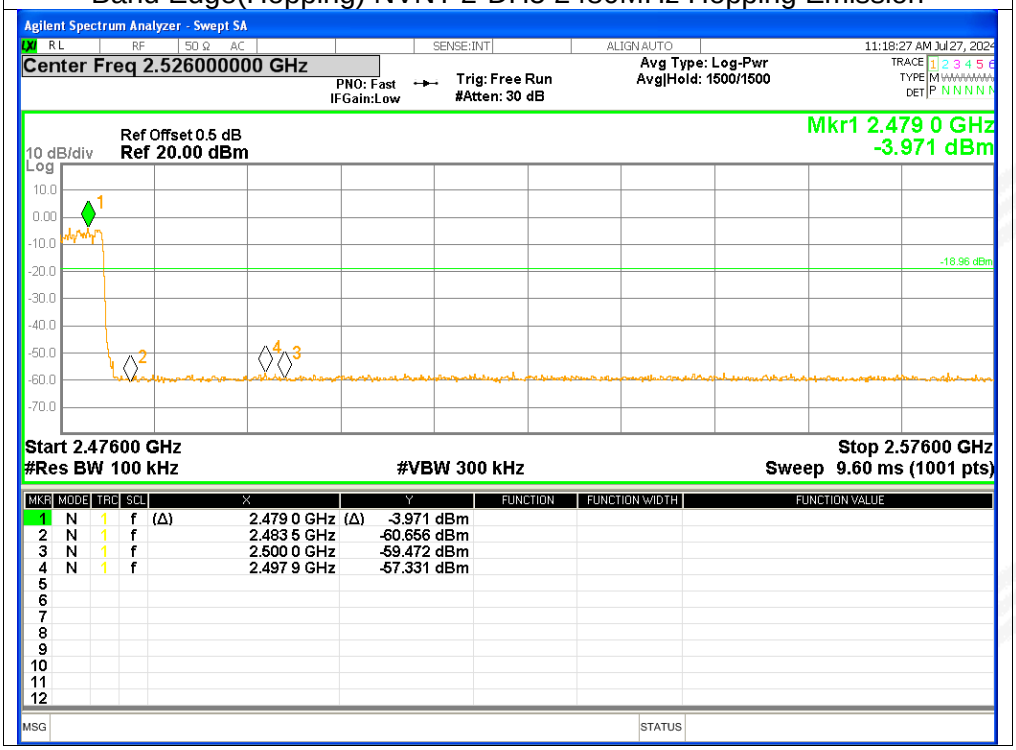
Band Edge(Hopping) NVNT 2-DH5 2402MHz Hopping Emission



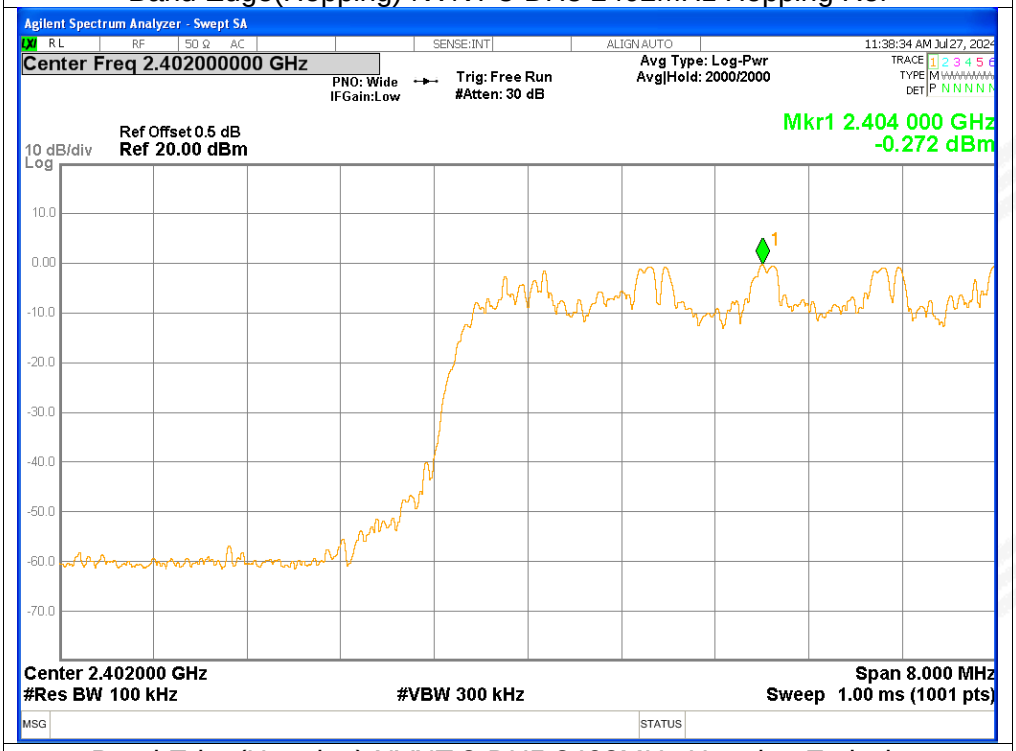
Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Ref



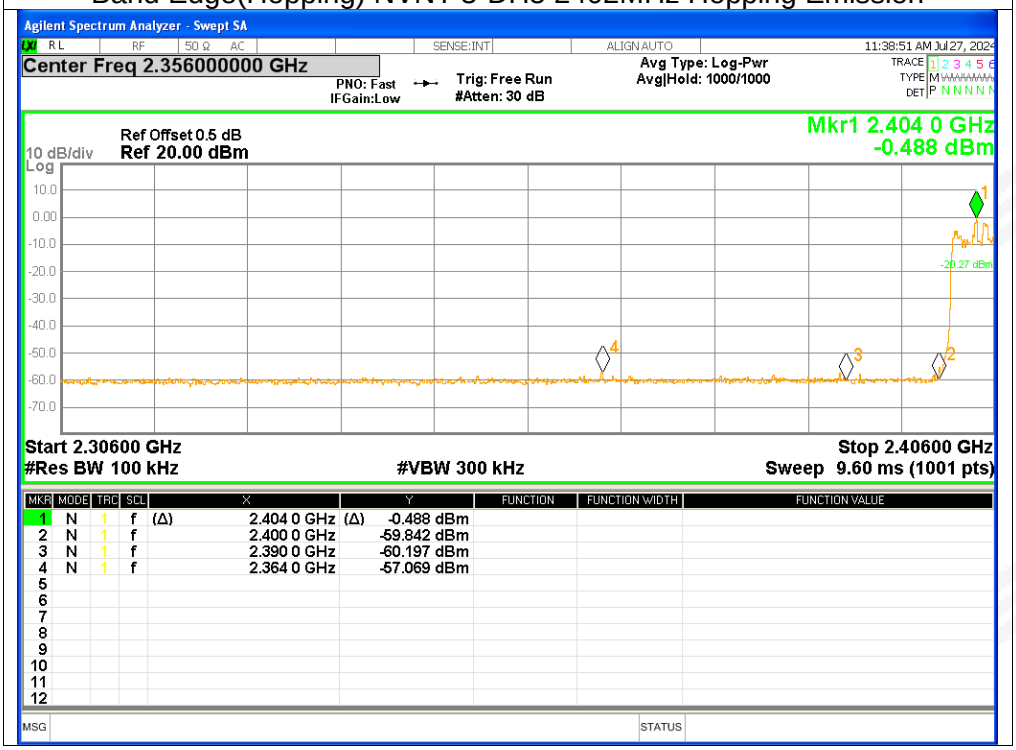
Band Edge(Hopping) NVNT 2-DH5 2480MHz Hopping Emission



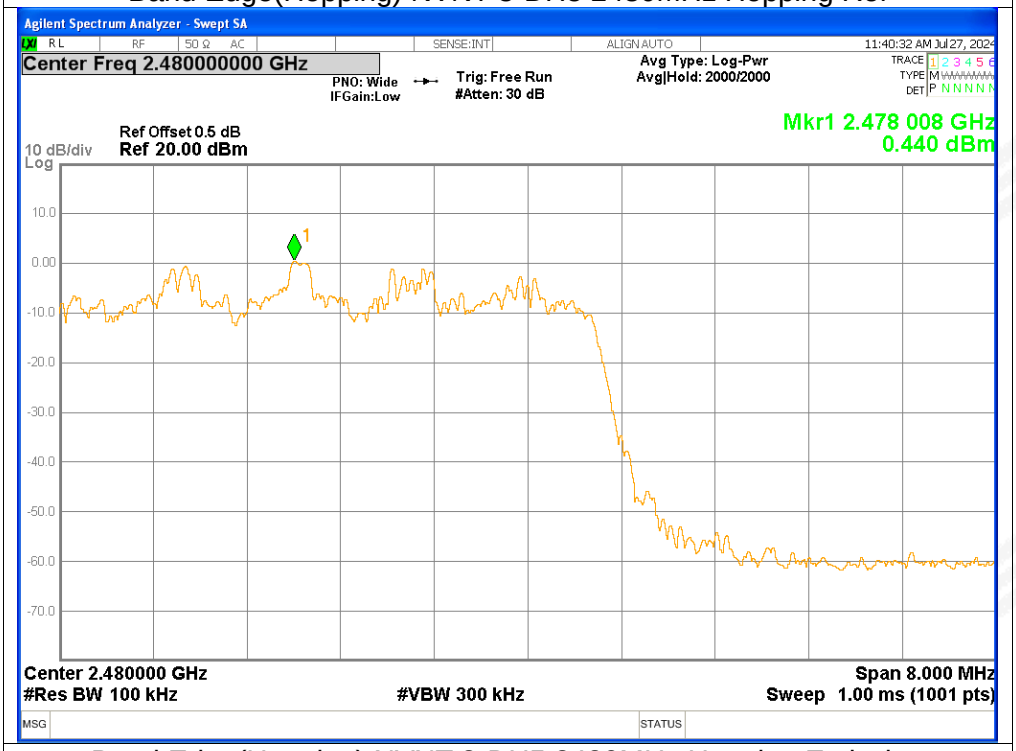
Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Ref



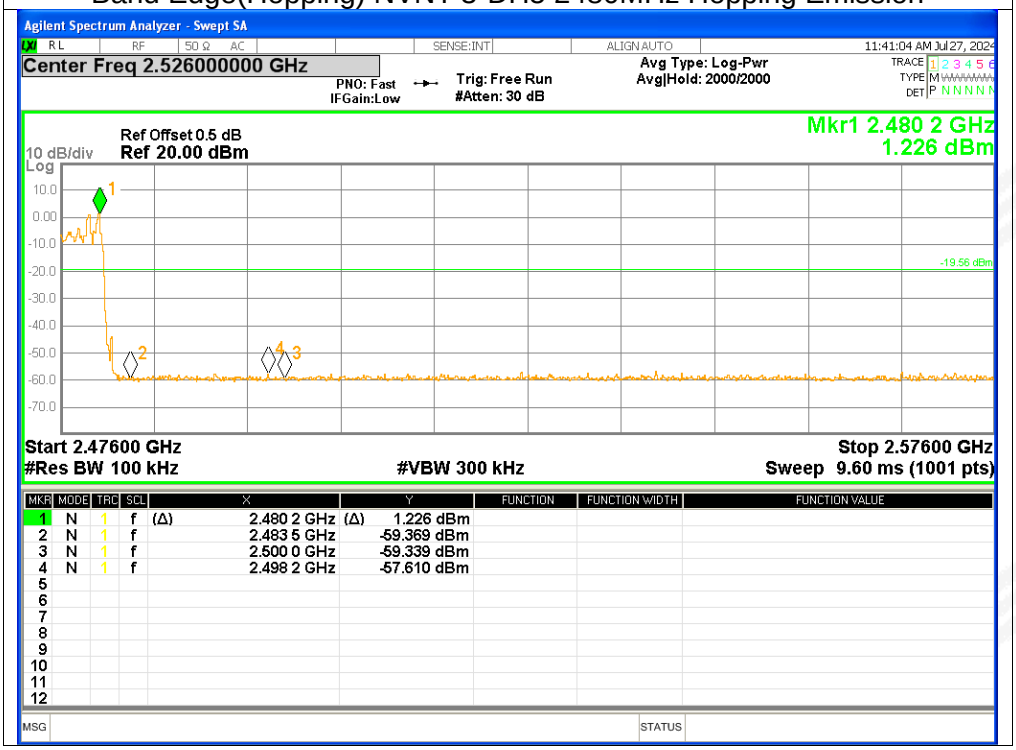
Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Emission



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



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

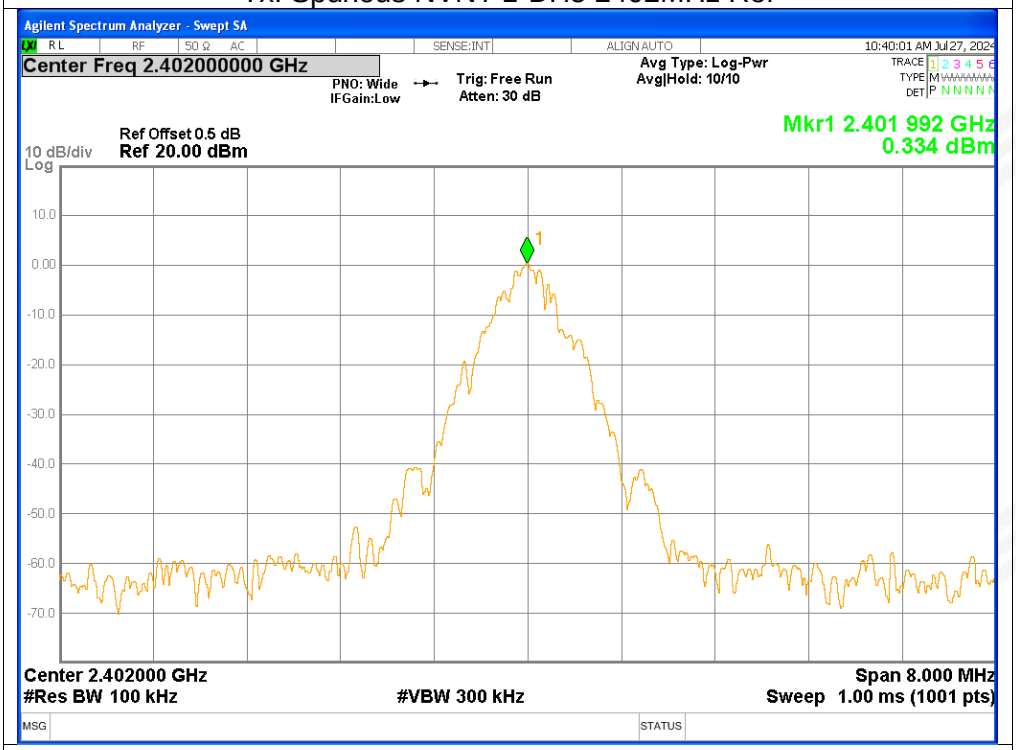


8. Conducted RF Spurious Emission

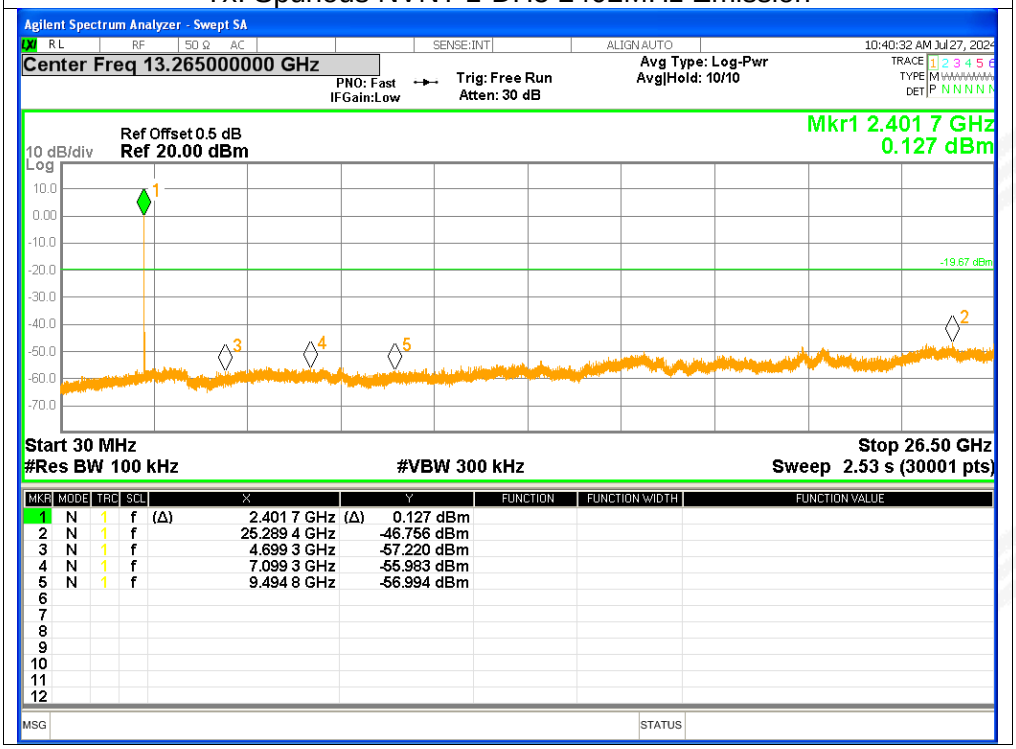
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	-47.08	<=-20	Pass
NVNT	1-DH5	2441	-48.6	<=-20	Pass
NVNT	1-DH5	2480	-47.79	<=-20	Pass
NVNT	2-DH5	2402	-41.66	<=-20	Pass
NVNT	2-DH5	2441	-41.44	<=-20	Pass
NVNT	2-DH5	2480	-42.32	<=-20	Pass
NVNT	3-DH5	2402	-47.3	<=-20	Pass
NVNT	3-DH5	2441	-47.97	<=-20	Pass
NVNT	3-DH5	2480	-48.24	<=-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ref

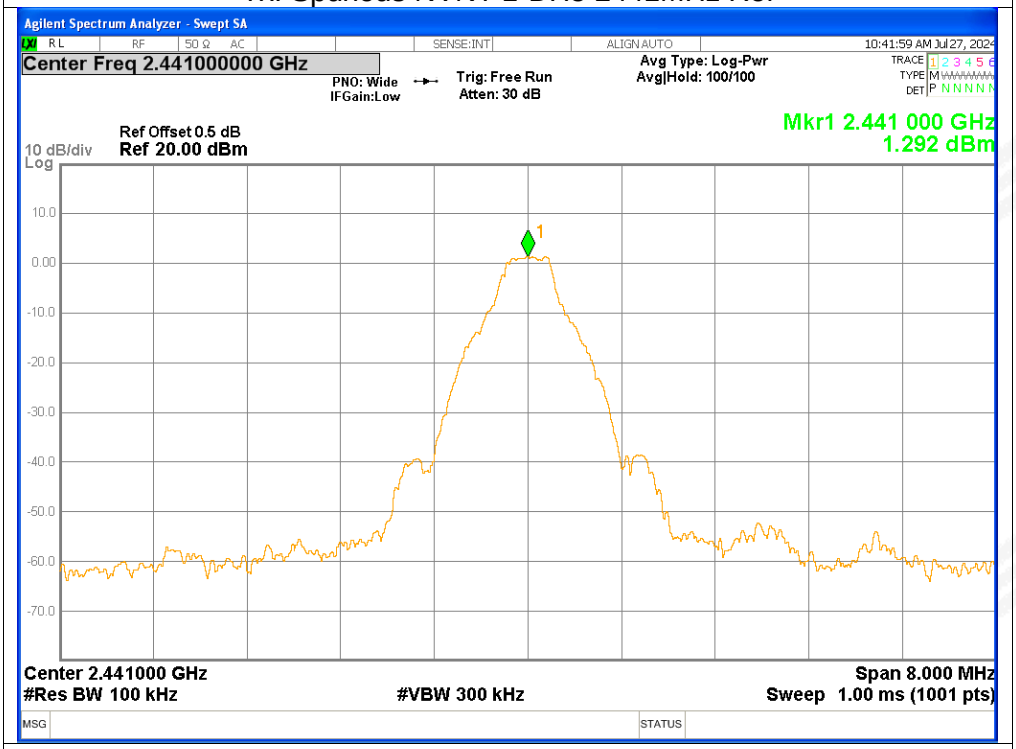


Tx. Spurious NVNT 1-DH5 2402MHz Emission

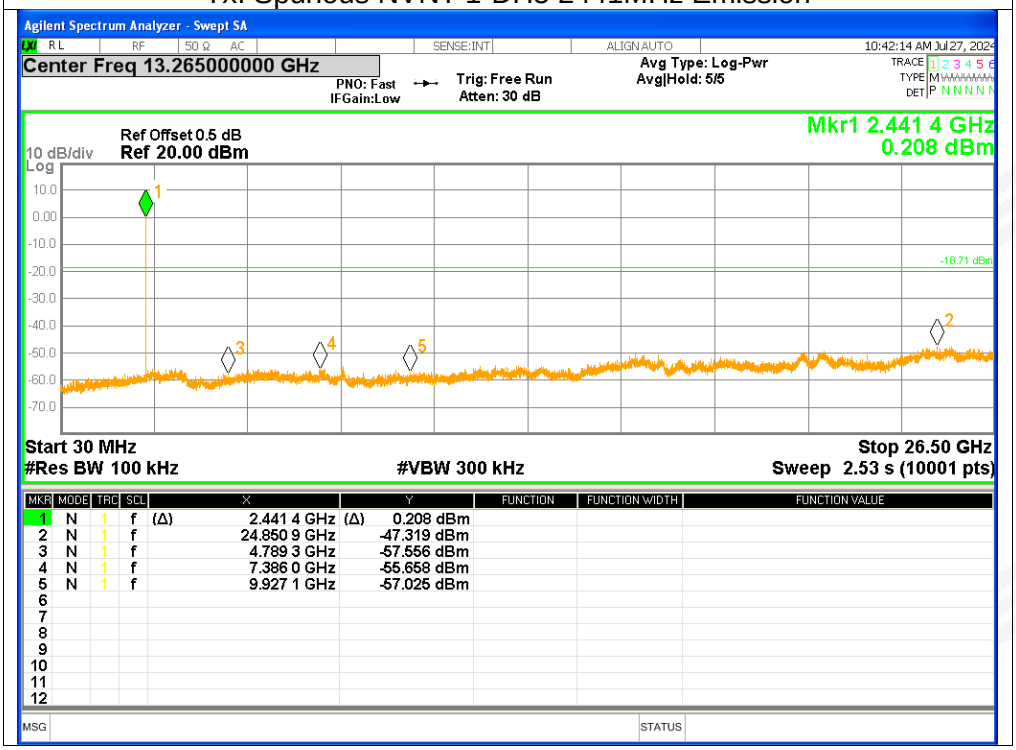


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.401 7 GHz	(Δ) 0.127 dBm			
2	N	1	f	25.289 4 GHz	-46.756 dBm			
3	N	1	f	4.699 3 GHz	-57.220 dBm			
4	N	1	f	7.099 3 GHz	-55.983 dBm			
5	N	1	f	9.494 8 GHz	-56.994 dBm			
6								
7								
8								
9								
10								
11								
12								

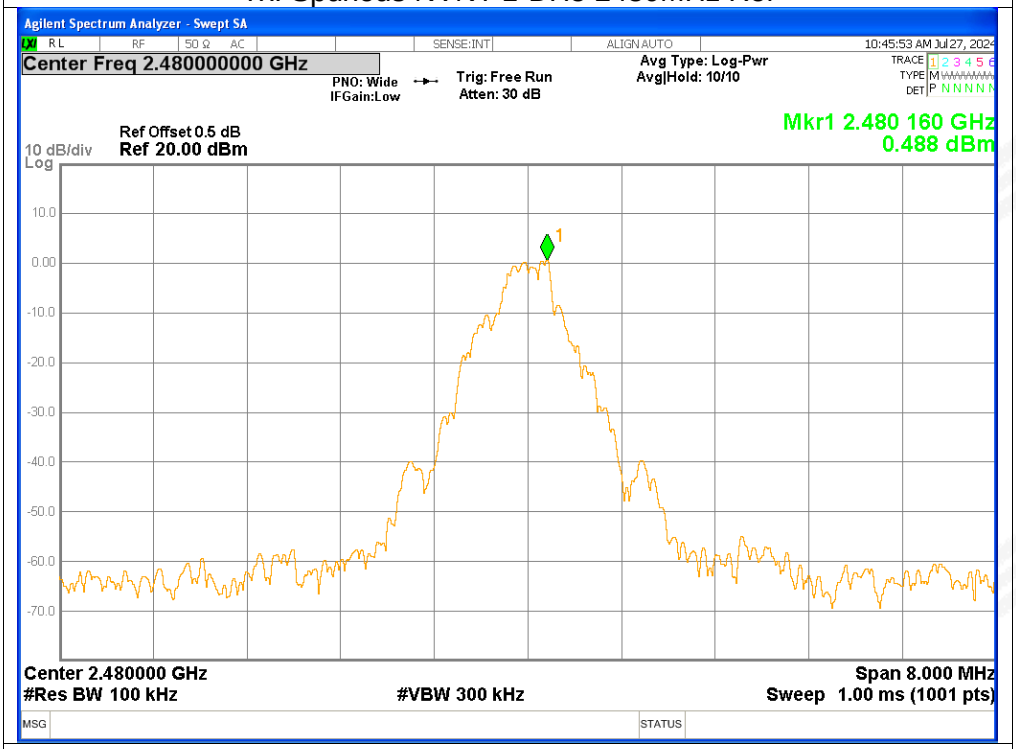
Tx. Spurious NVNT 1-DH5 2441MHz Ref



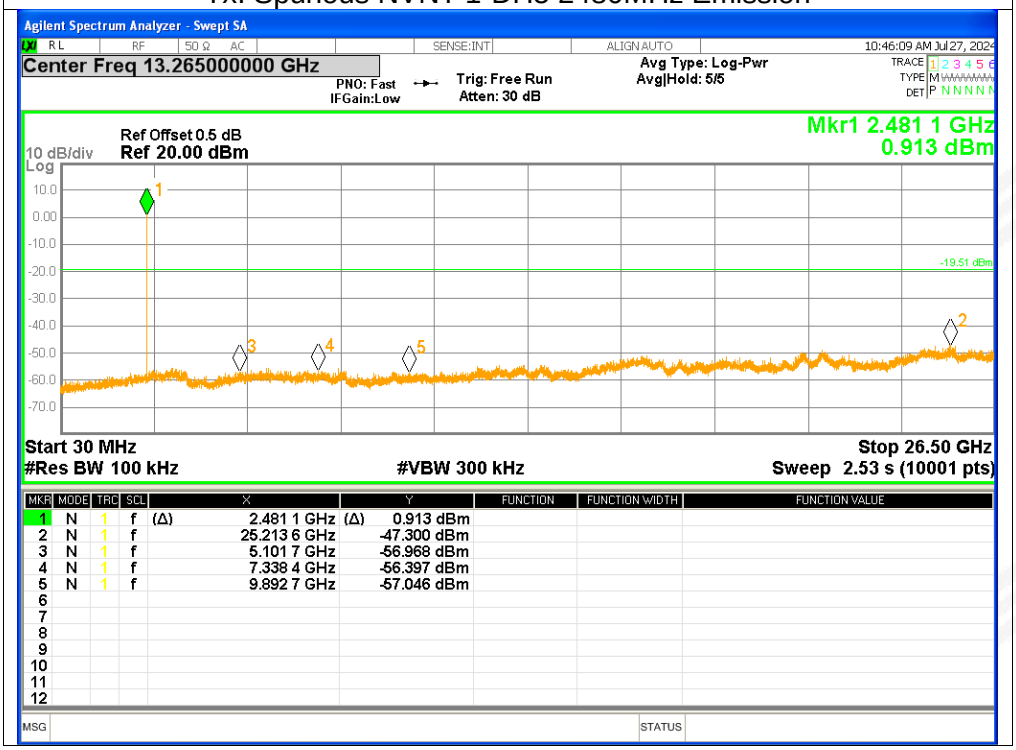
Tx. Spurious NVNT 1-DH5 2441MHz Emission



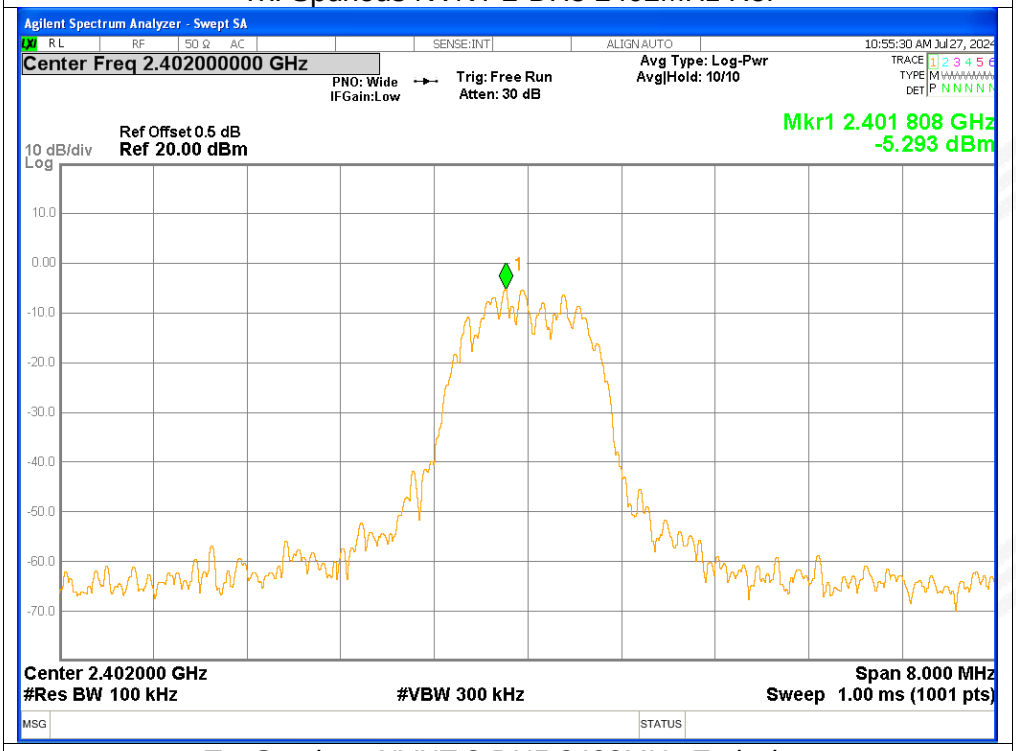
Tx. Spurious NVNT 1-DH5 2480MHz Ref



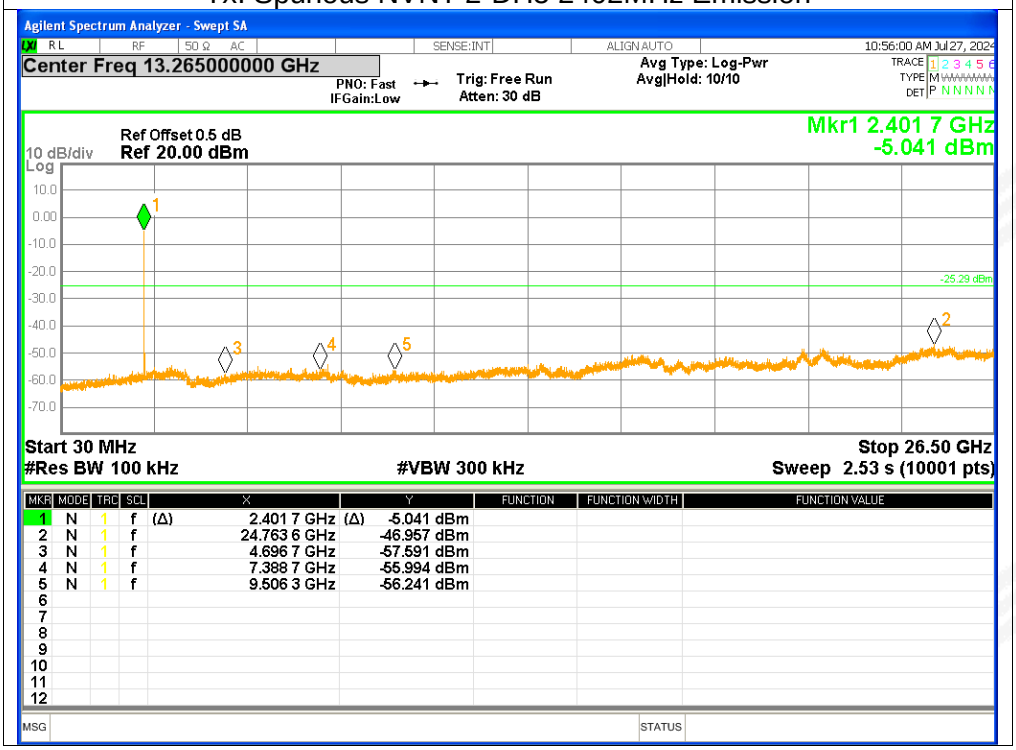
Tx. Spurious NVNT 1-DH5 2480MHz Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ref

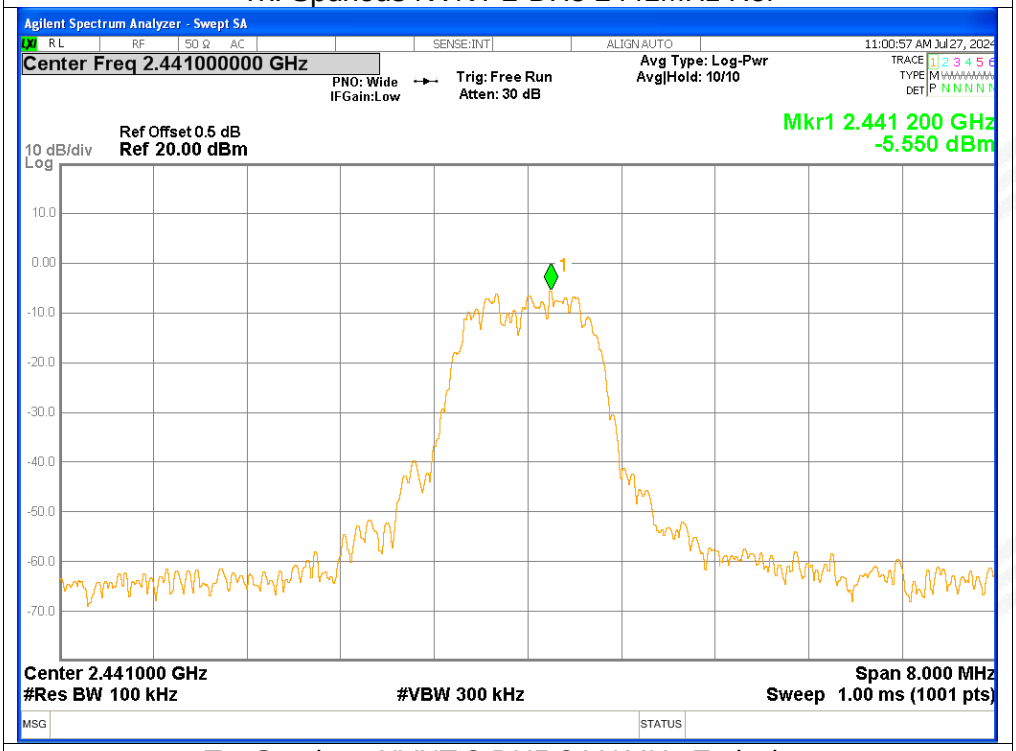


Tx. Spurious NVNT 2-DH5 2402MHz Emission

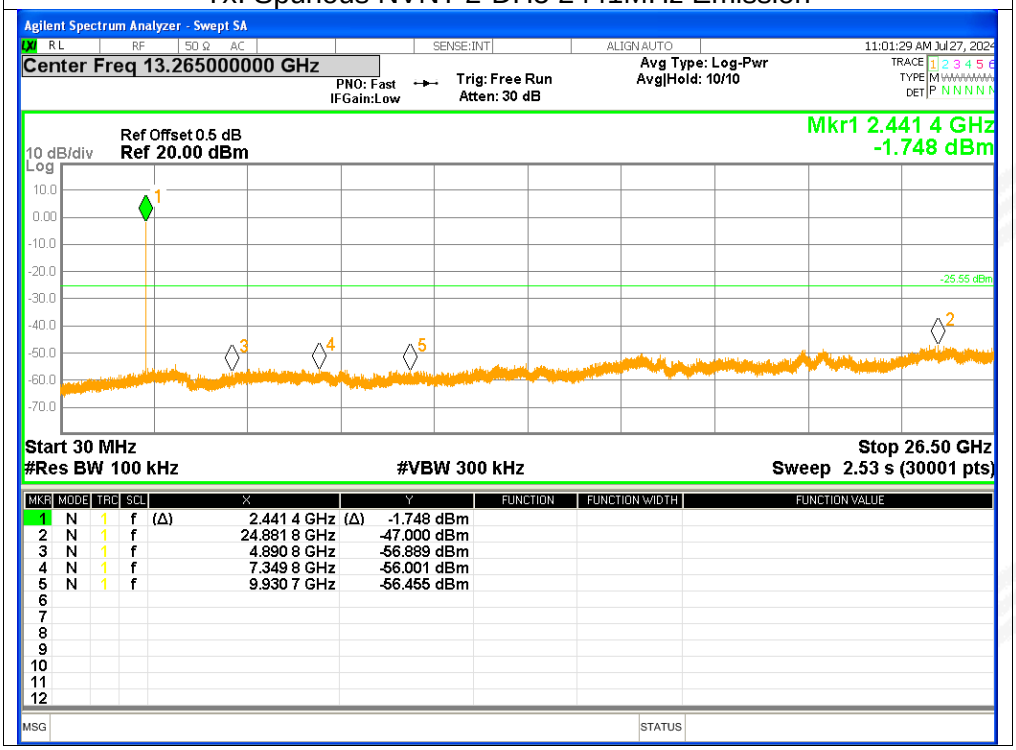


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.401 7 GHz	(Δ) -5.041 dBm			
2	N	1	f	24.763 6 GHz	-46.957 dBm			
3	N	1	f	4.696 7 GHz	-57.591 dBm			
4	N	1	f	7.388 7 GHz	-55.994 dBm			
5	N	1	f	9.506 3 GHz	-56.241 dBm			
6								
7								
8								
9								
10								
11								
12								

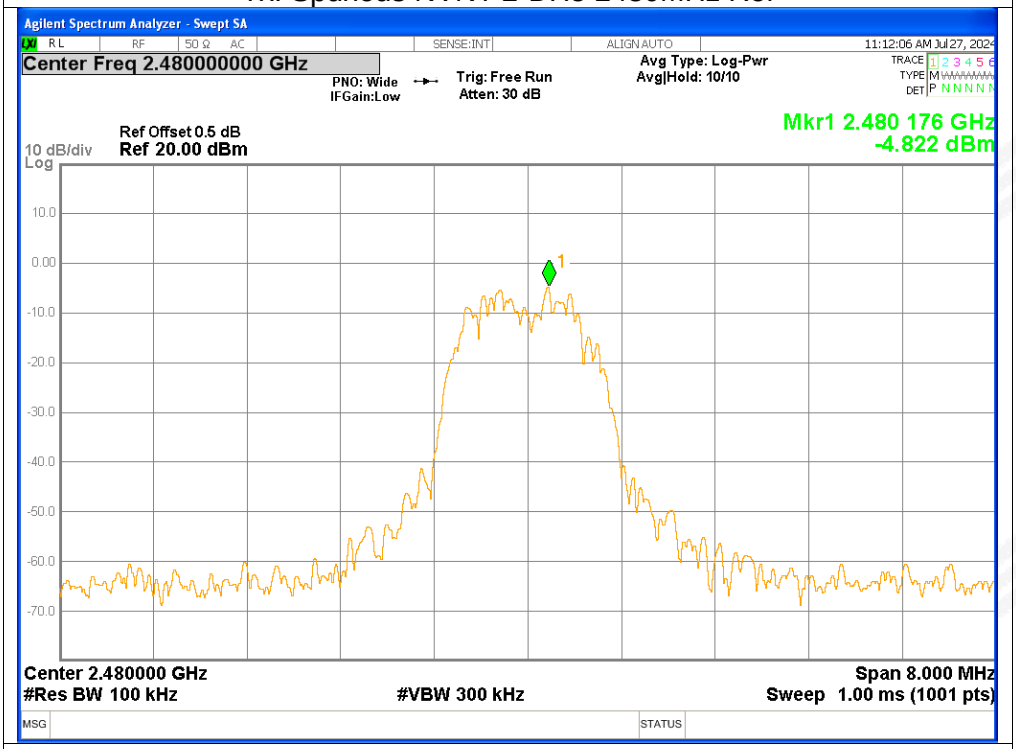
Tx. Spurious NVNT 2-DH5 2441MHz Ref



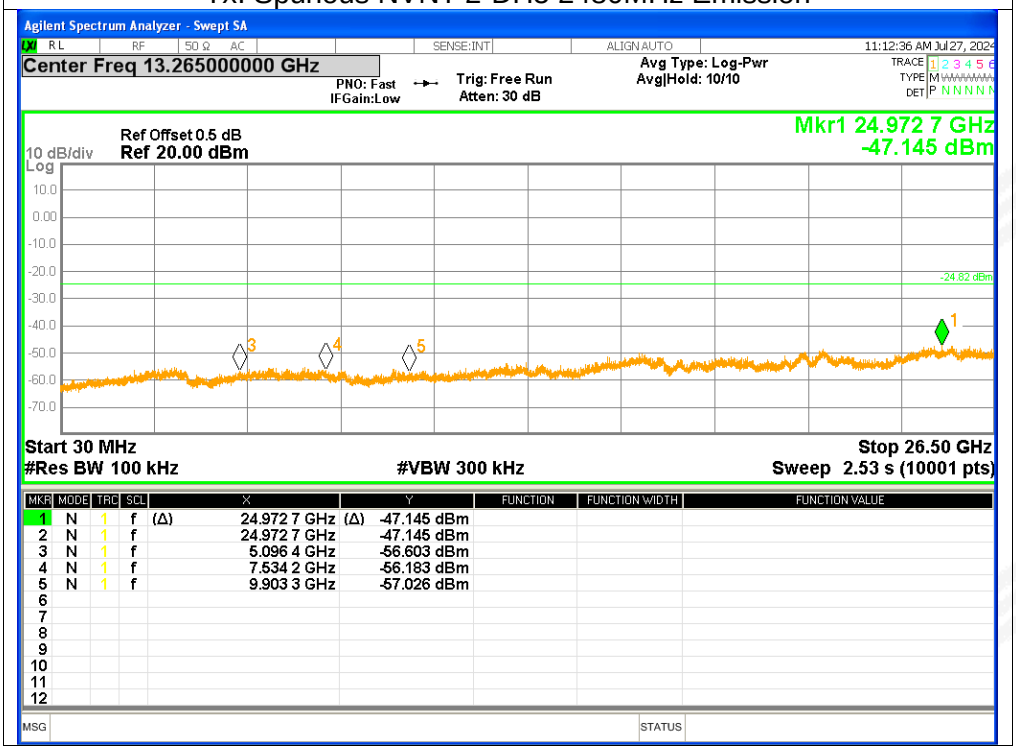
Tx. Spurious NVNT 2-DH5 2441MHz Emission



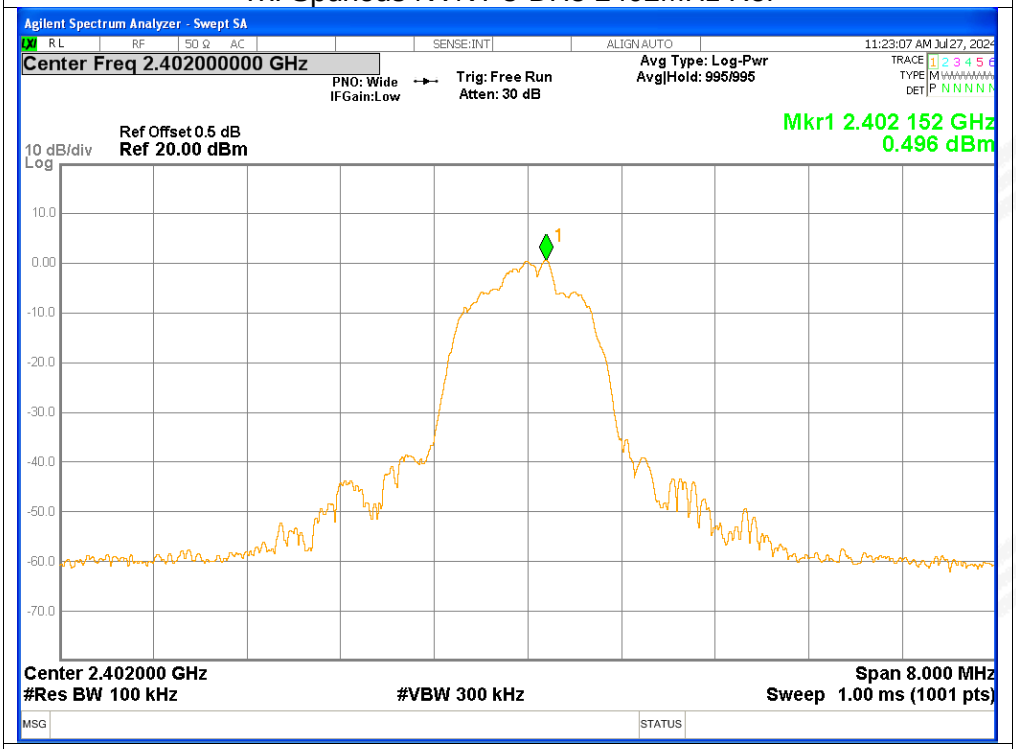
Tx. Spurious NVNT 2-DH5 2480MHz Ref



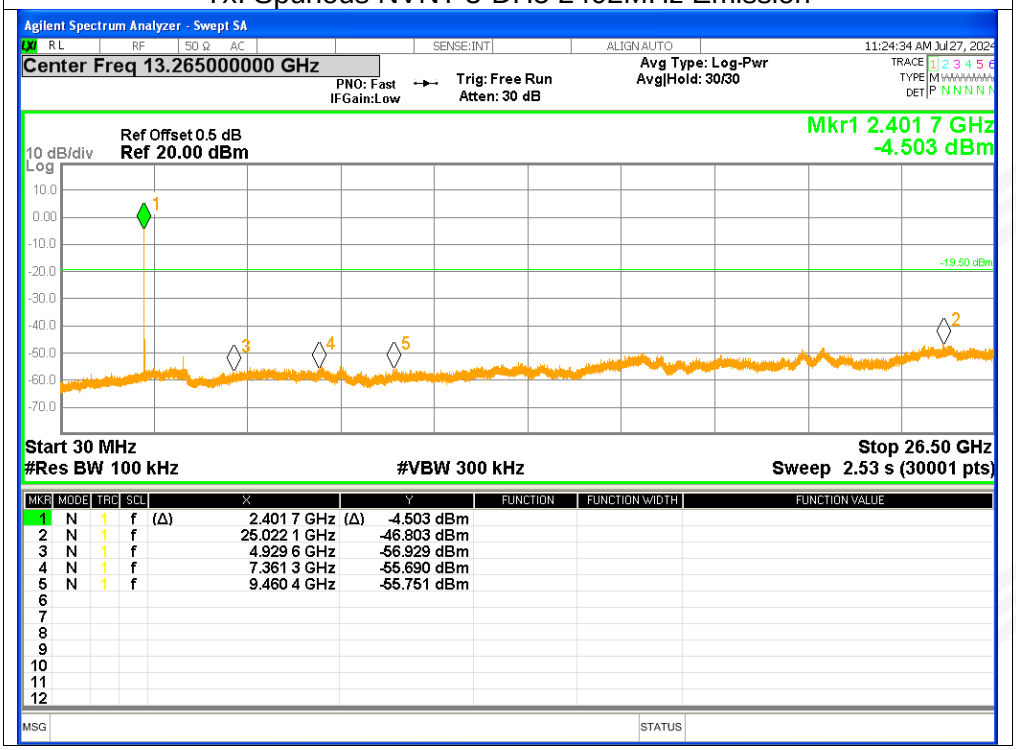
Tx. Spurious NVNT 2-DH5 2480MHz Emission



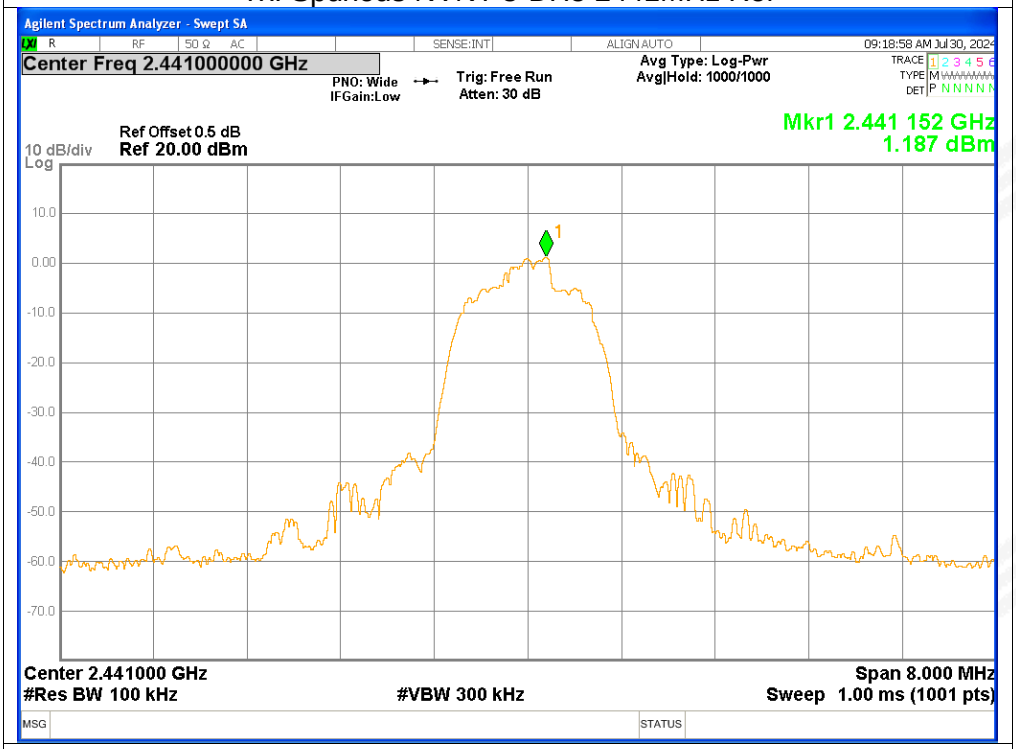
Tx. Spurious NVNT 3-DH5 2402MHz Ref



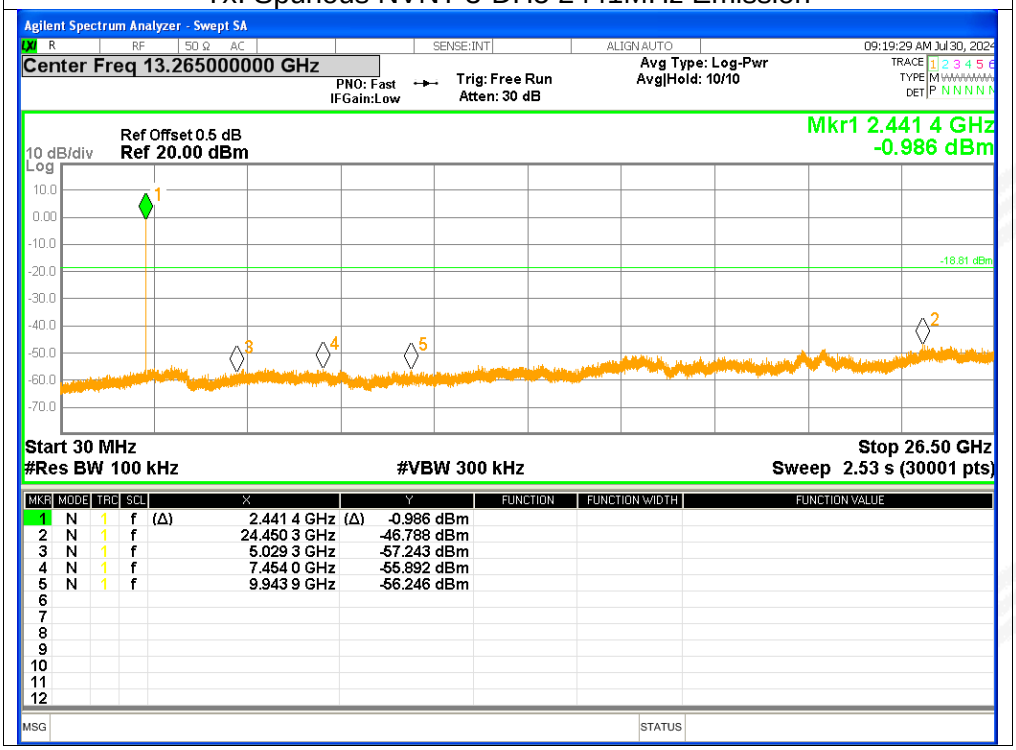
Tx. Spurious NVNT 3-DH5 2402MHz Emission



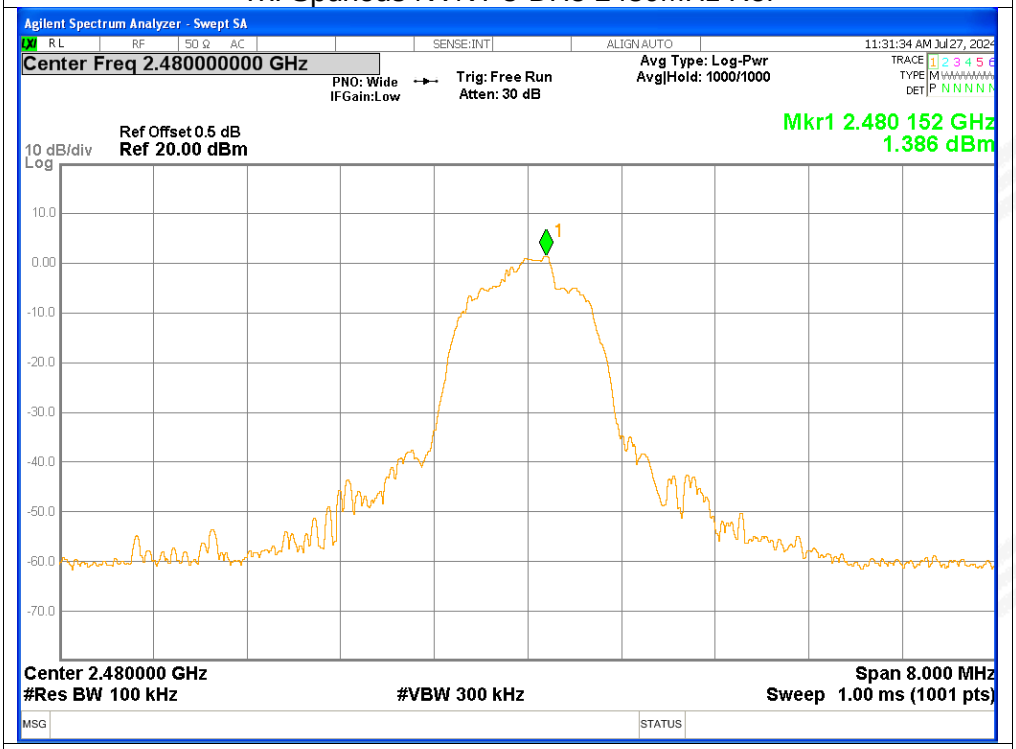
Tx. Spurious NVNT 3-DH5 2441MHz Ref



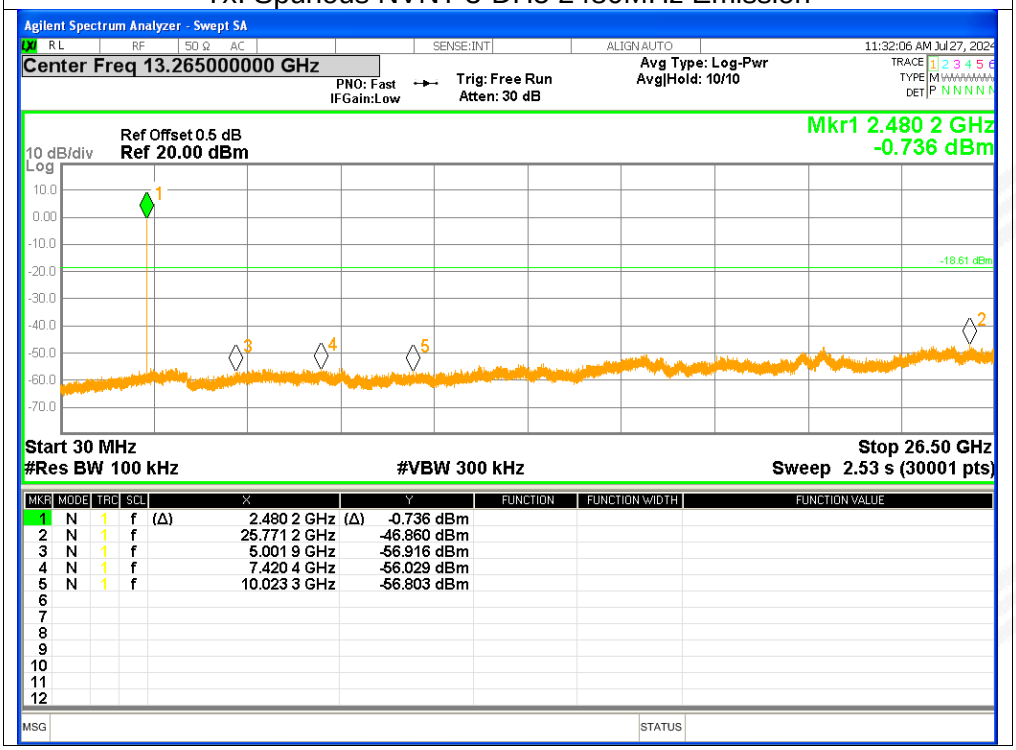
Tx. Spurious NVNT 3-DH5 2441MHz Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ref



Tx. Spurious NVNT 3-DH5 2480MHz Emission



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※※※※※