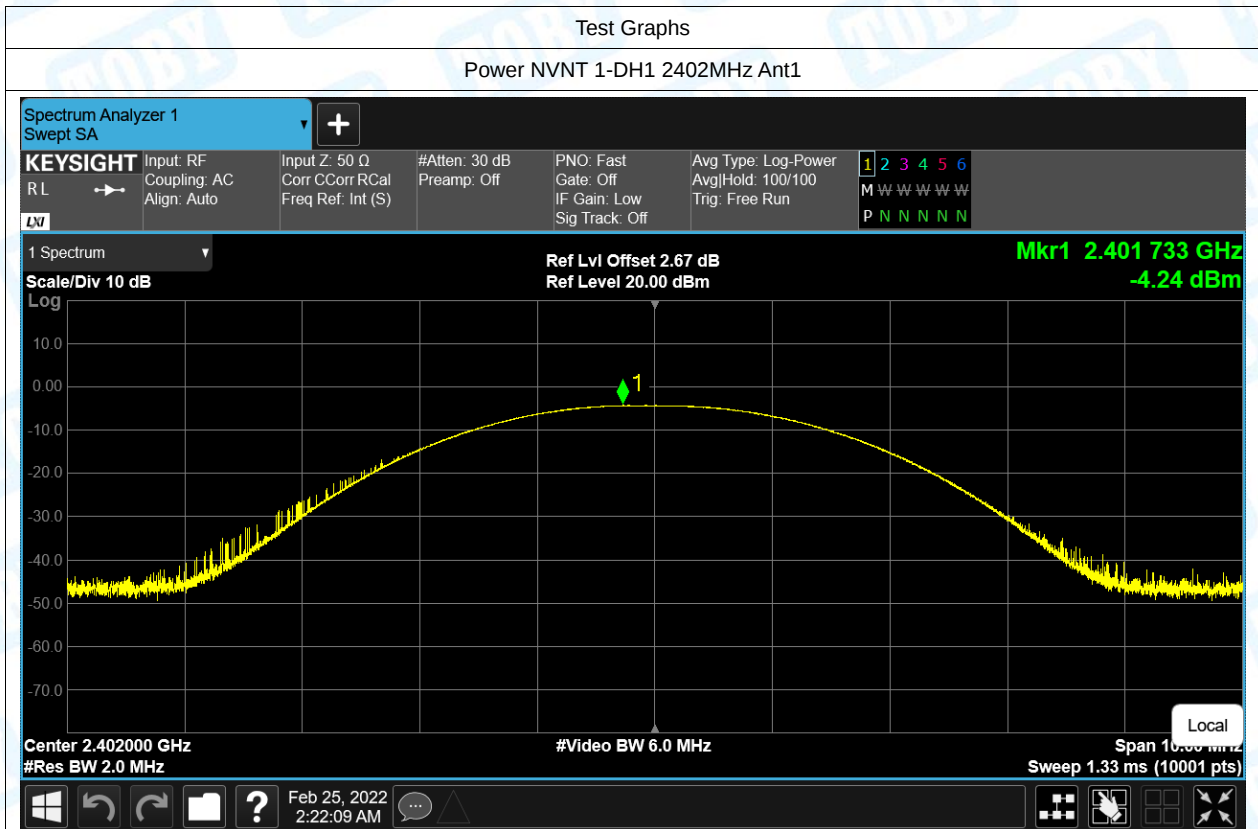


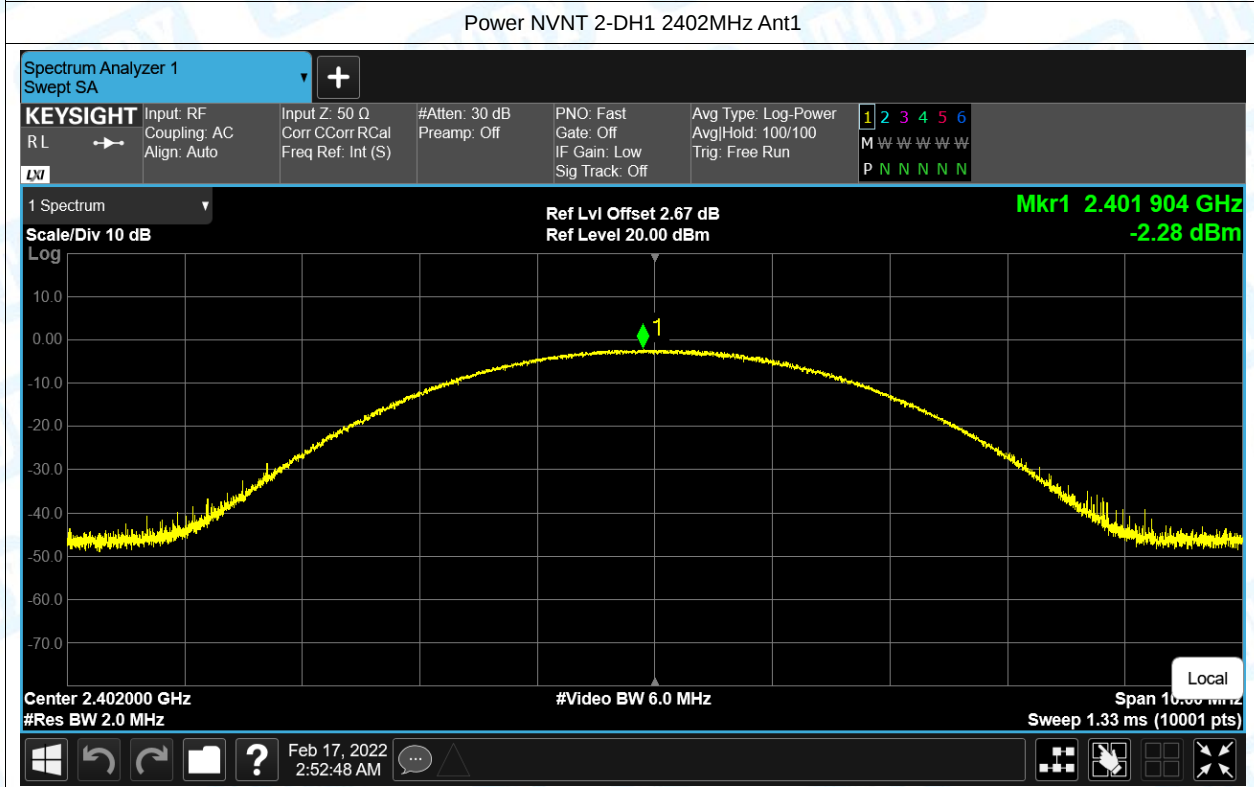
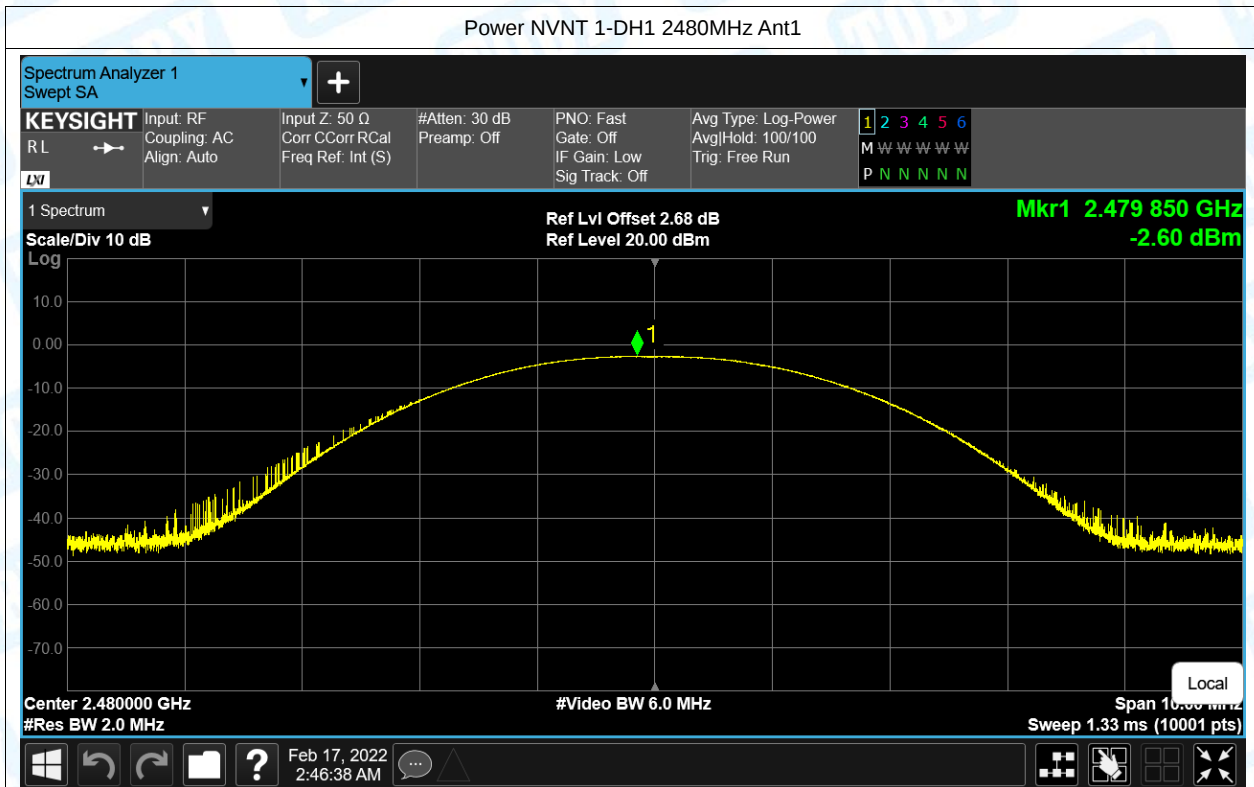
RF Test Data for Bluetooth(BDR+EDR) (Conducted Measurements)

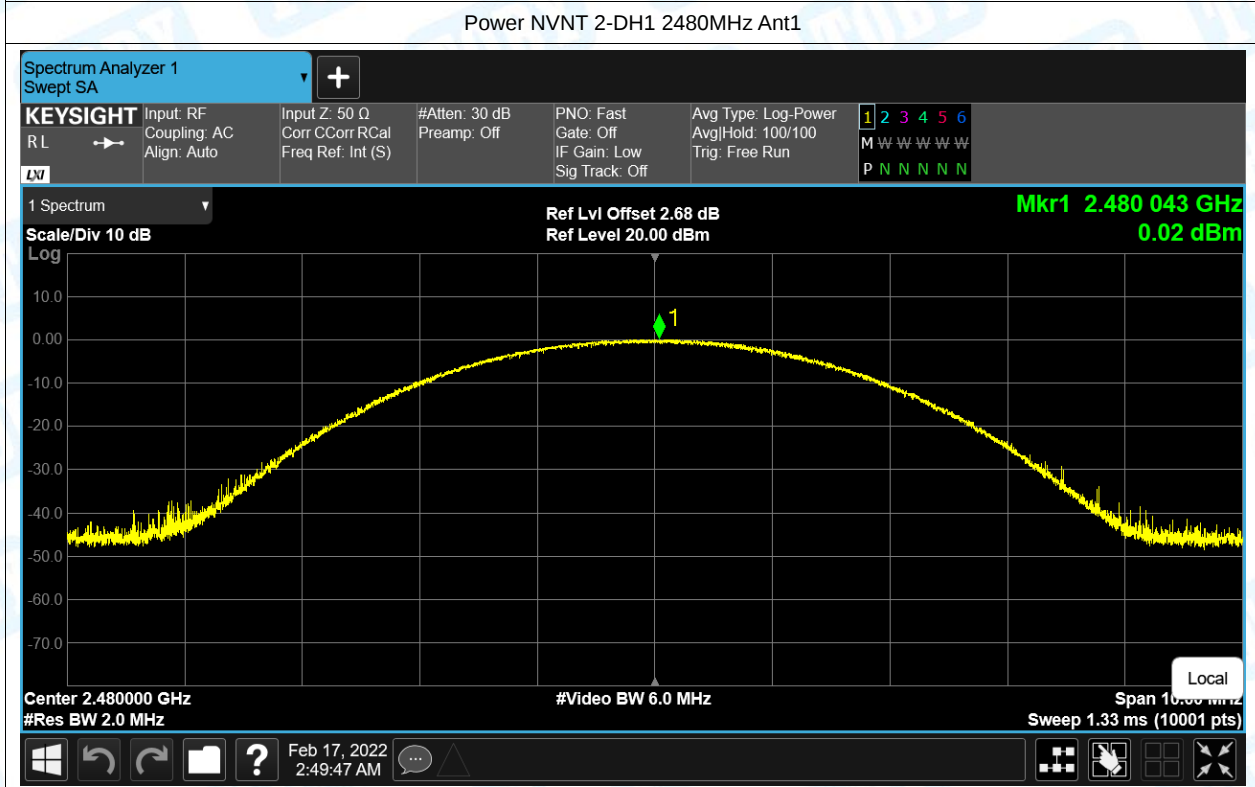
General Description of EUT	
Product Name:	Bluetooth Speaker
Test Model:	Asyoren A3
Sample ID:	RW-C-202202-0031-1-2#
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	50%
Test Voltage:	DC7.4V
Test Engineer:	Hejingchang
Note: For a more detailed features description, please refer to the report TBR-C-202202-0031-1.	

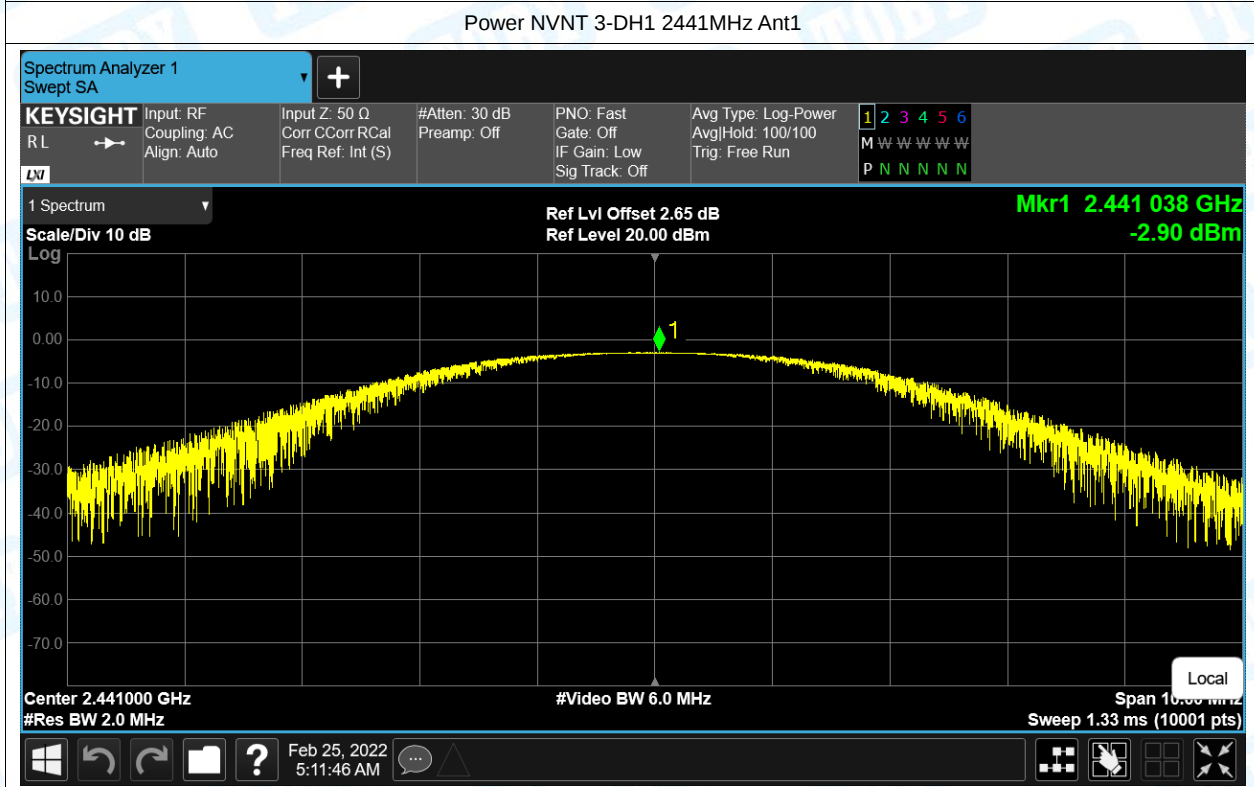
1. Maximum Conducted Output Power

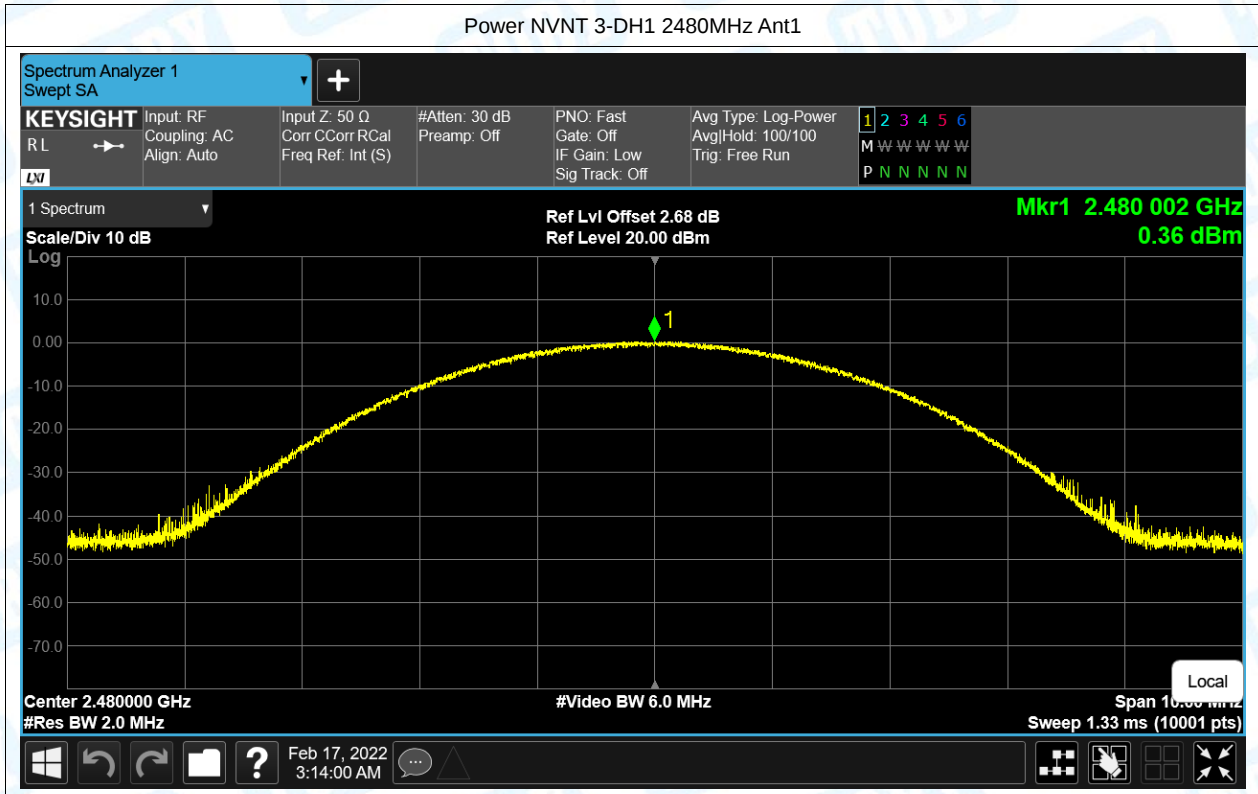
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	-4.235	21	Pass
NVNT	1-DH1	2441	-0.817	21	Pass
NVNT	1-DH1	2480	-2.602	21	Pass
NVNT	2-DH1	2402	-2.282	21	Pass
NVNT	2-DH1	2441	-6.646	21	Pass
NVNT	2-DH1	2480	0.022	21	Pass
NVNT	3-DH1	2402	-1.868	21	Pass
NVNT	3-DH1	2441	-2.899	21	Pass
NVNT	3-DH1	2480	0.36	21	Pass









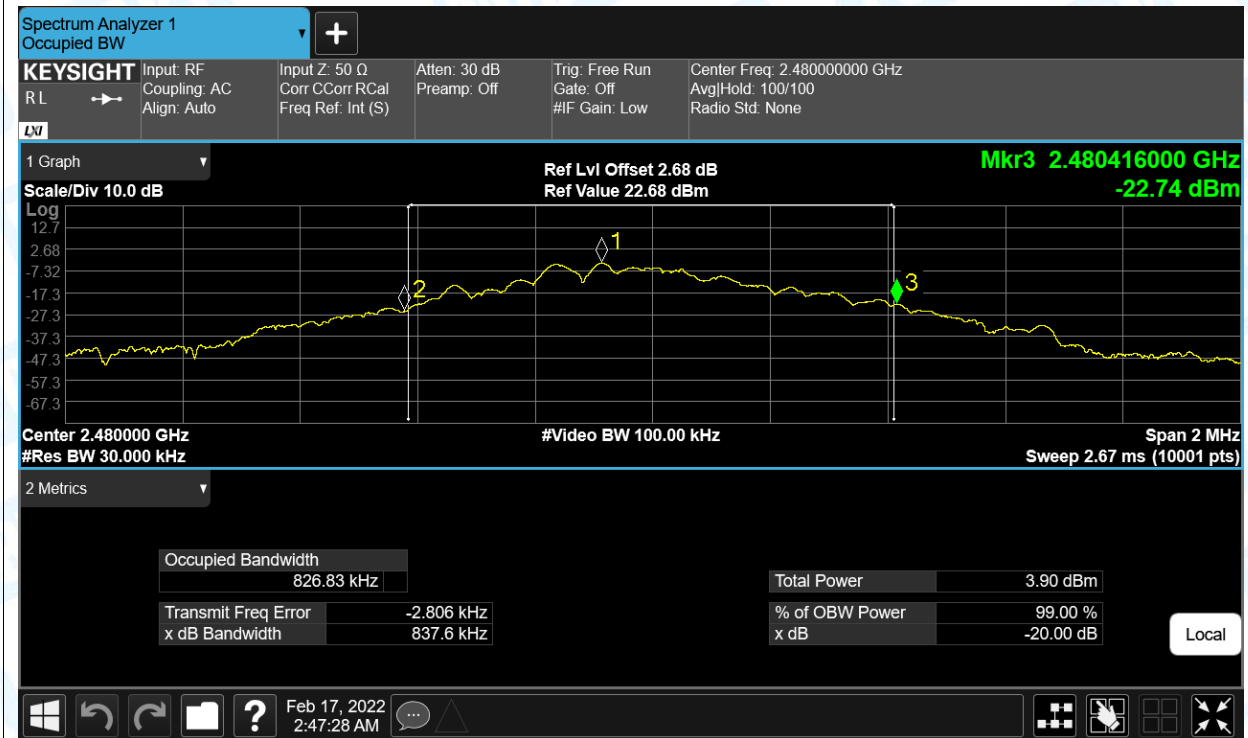


2. -20dB Bandwidth

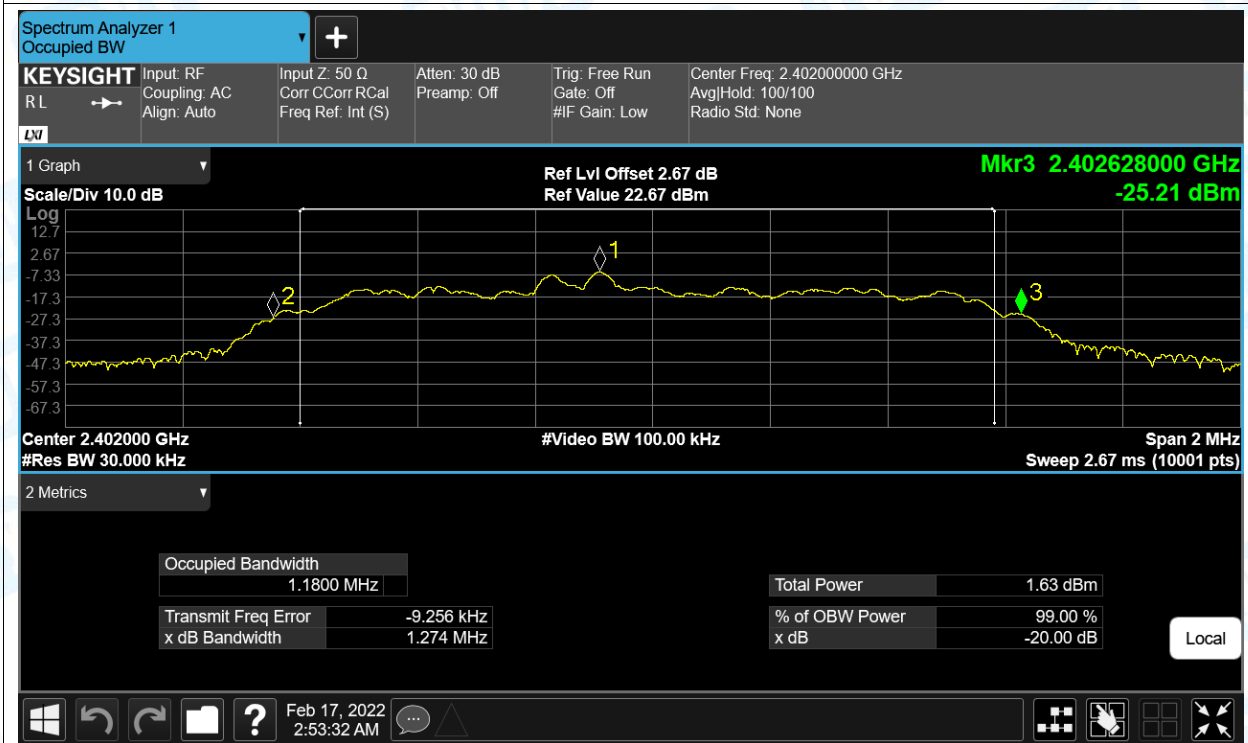
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	2/3 *20dB BW (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.84	0.56	Pass
NVNT	1-DH1	2441	Ant1	0.95	0.63	Pass
NVNT	1-DH1	2480	Ant1	0.84	0.56	Pass
NVNT	2-DH1	2402	Ant1	1.27	0.85	Pass
NVNT	2-DH1	2441	Ant1	1.27	0.85	Pass
NVNT	2-DH1	2480	Ant1	1.27	0.85	Pass
NVNT	3-DH1	2402	Ant1	1.24	0.83	Pass
NVNT	3-DH1	2441	Ant1	1.24	0.83	Pass
NVNT	3-DH1	2480	Ant1	1.24	0.83	Pass



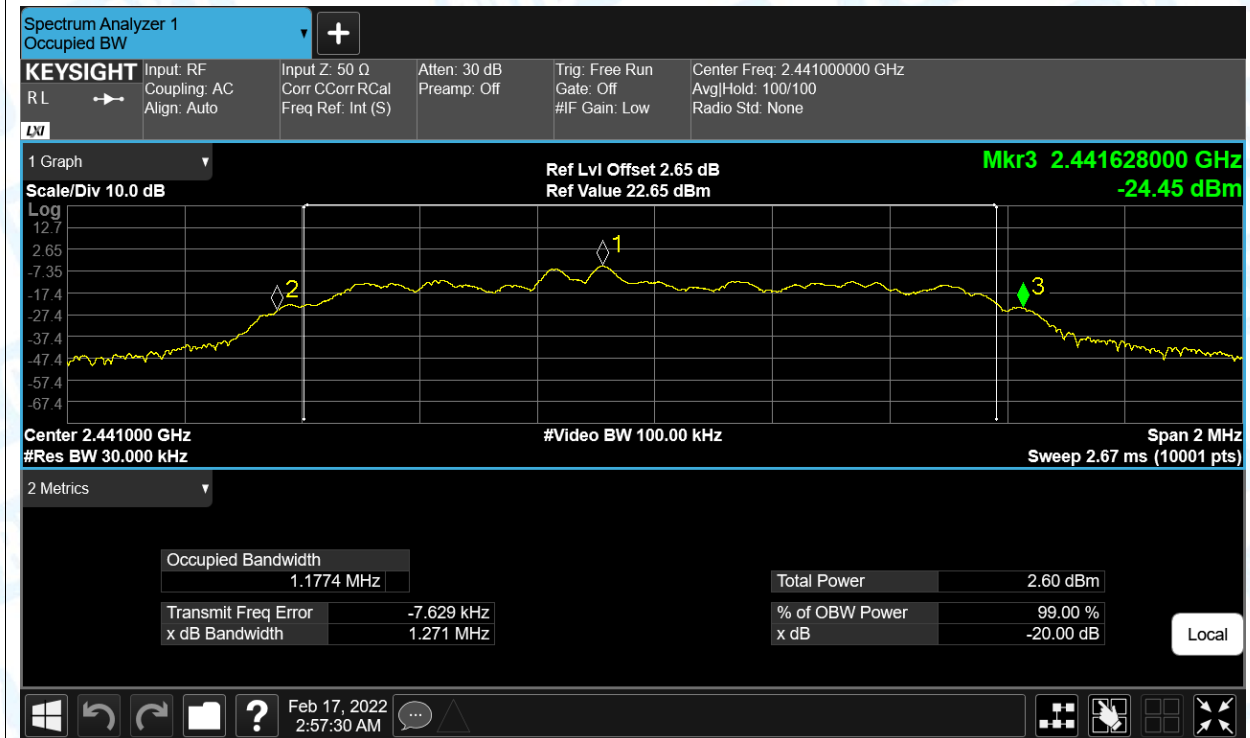
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



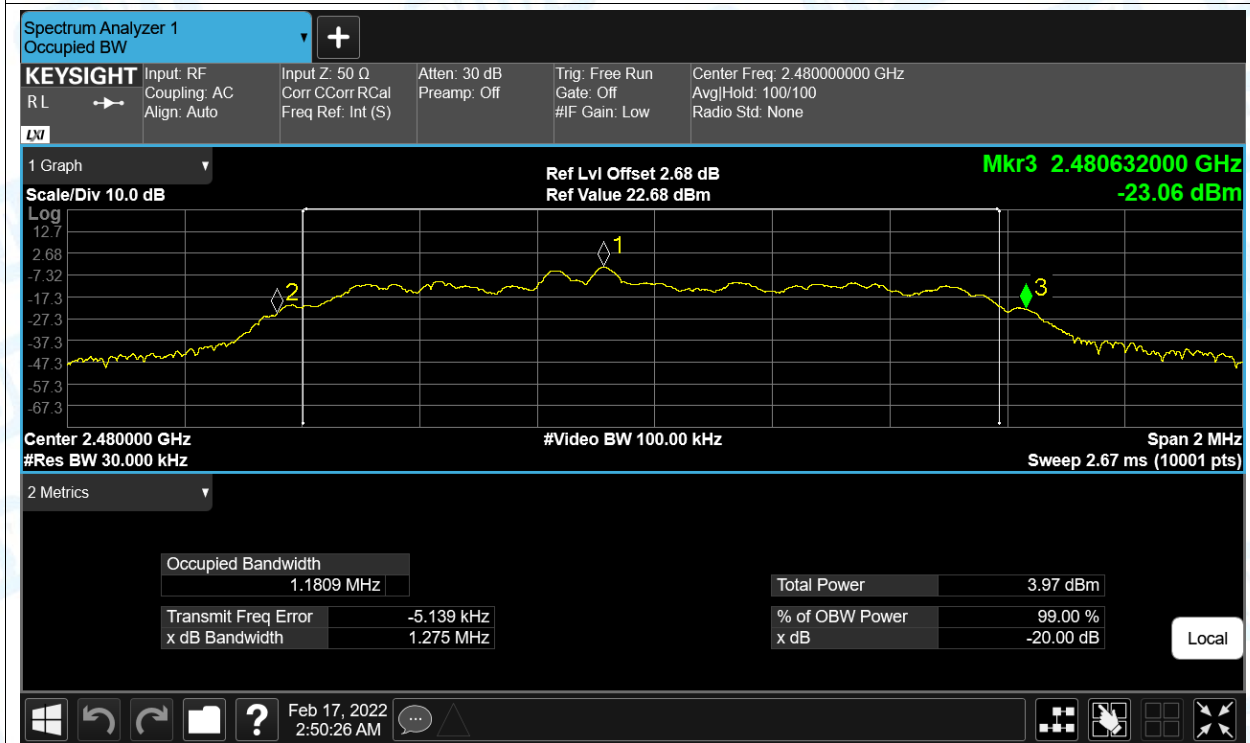
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



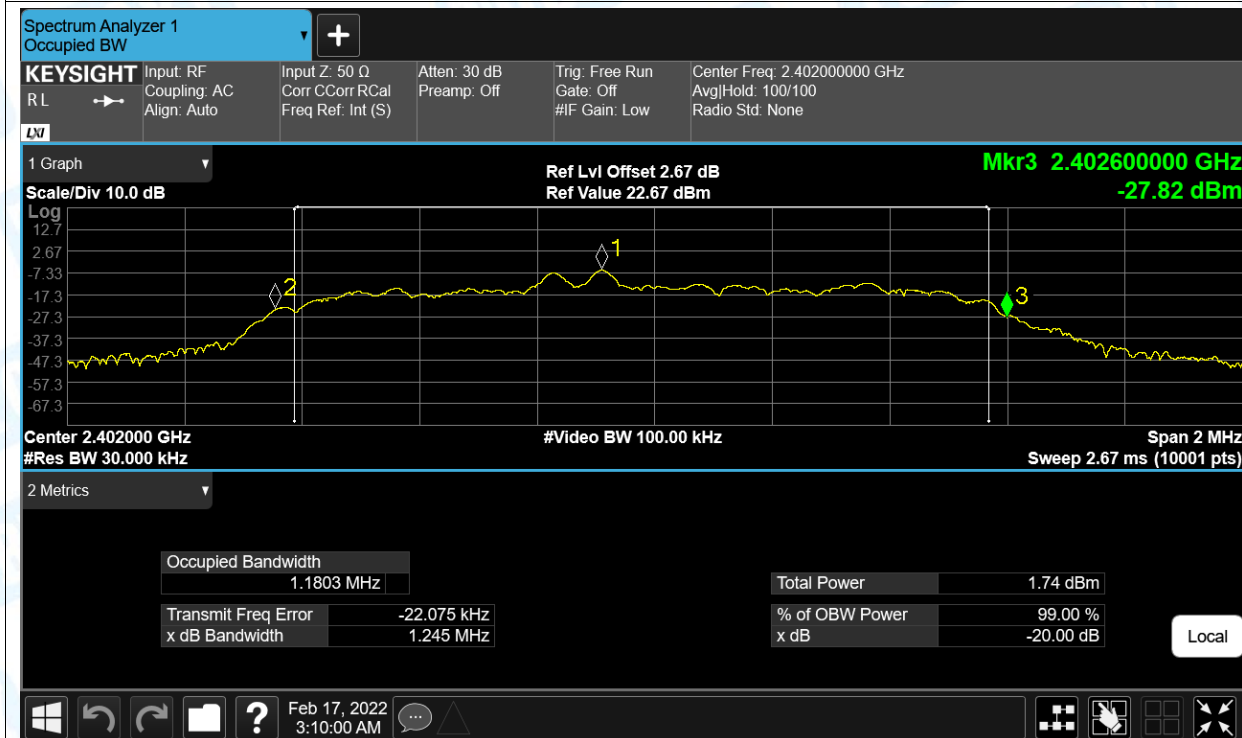
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



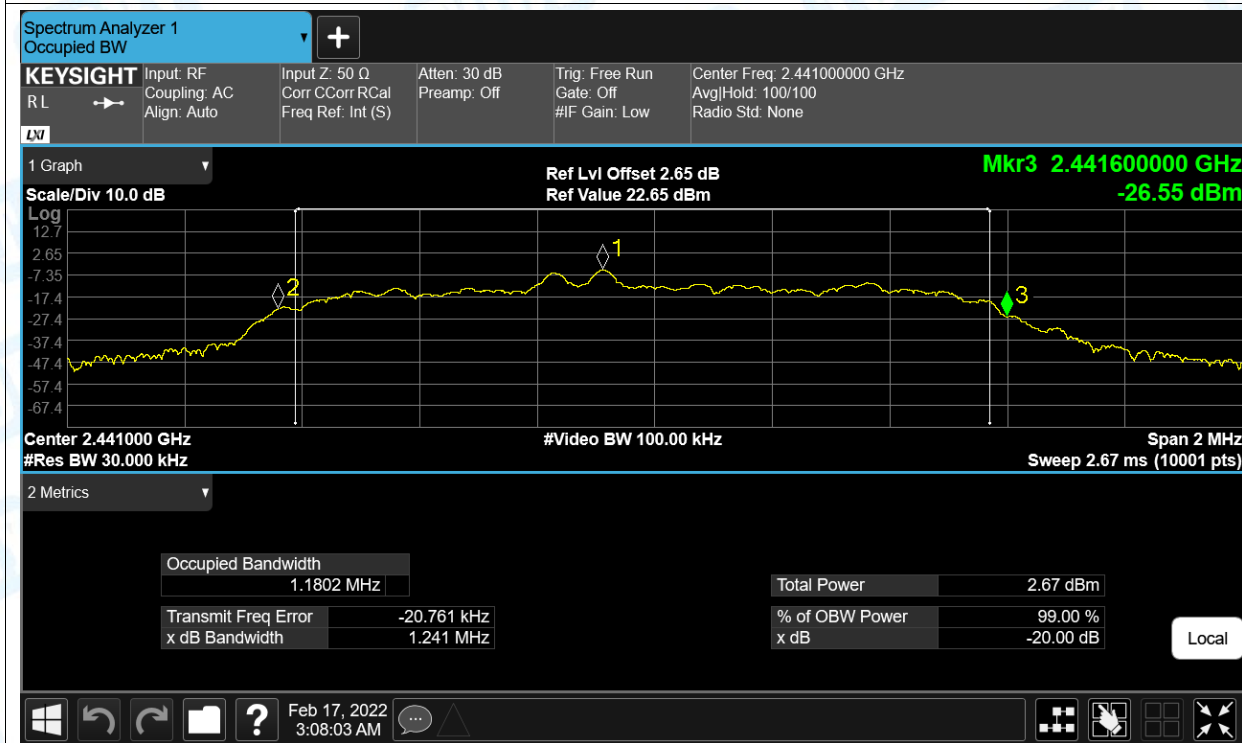
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

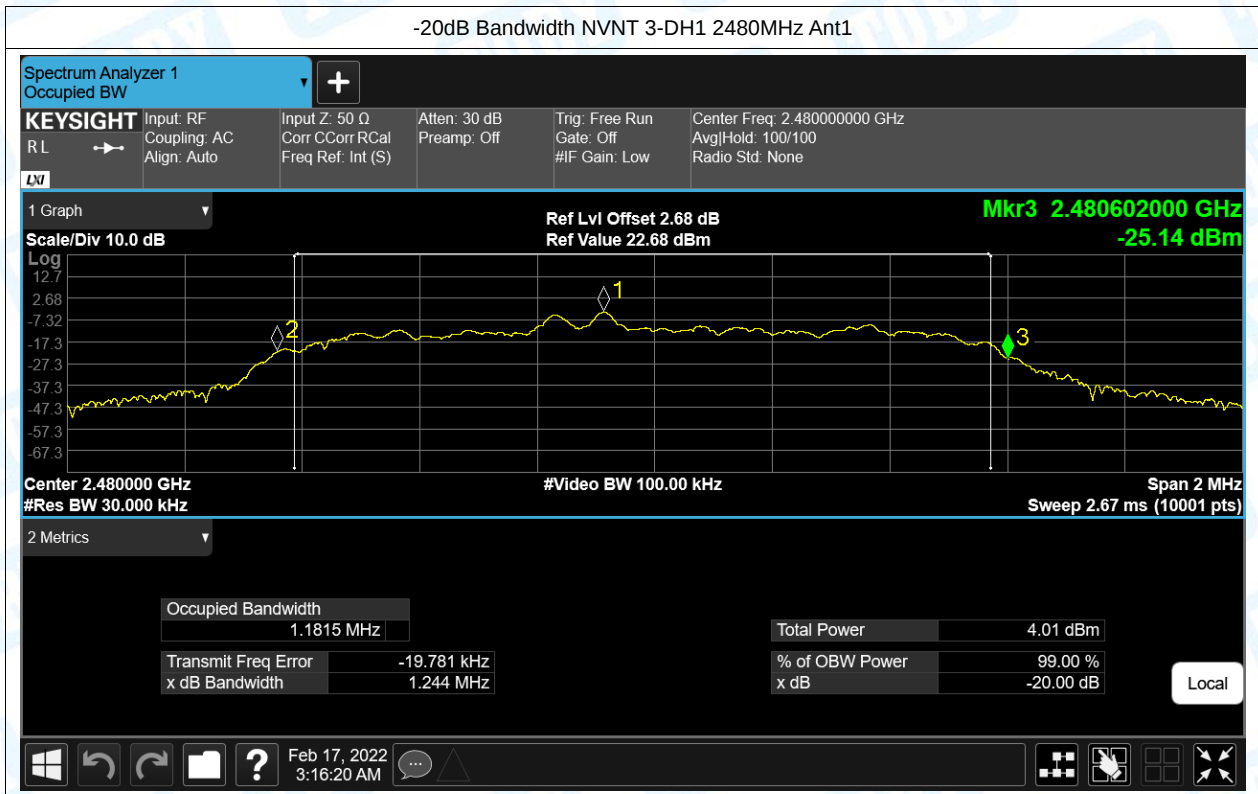


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



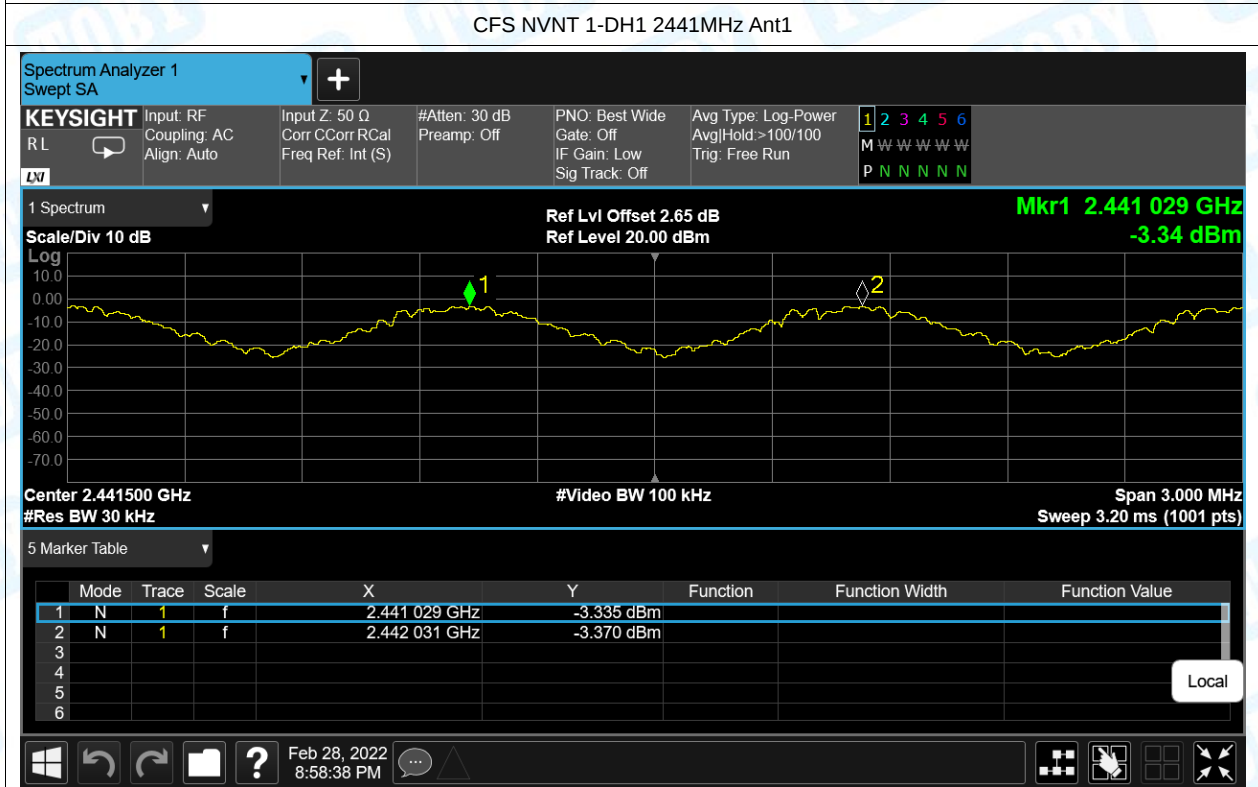
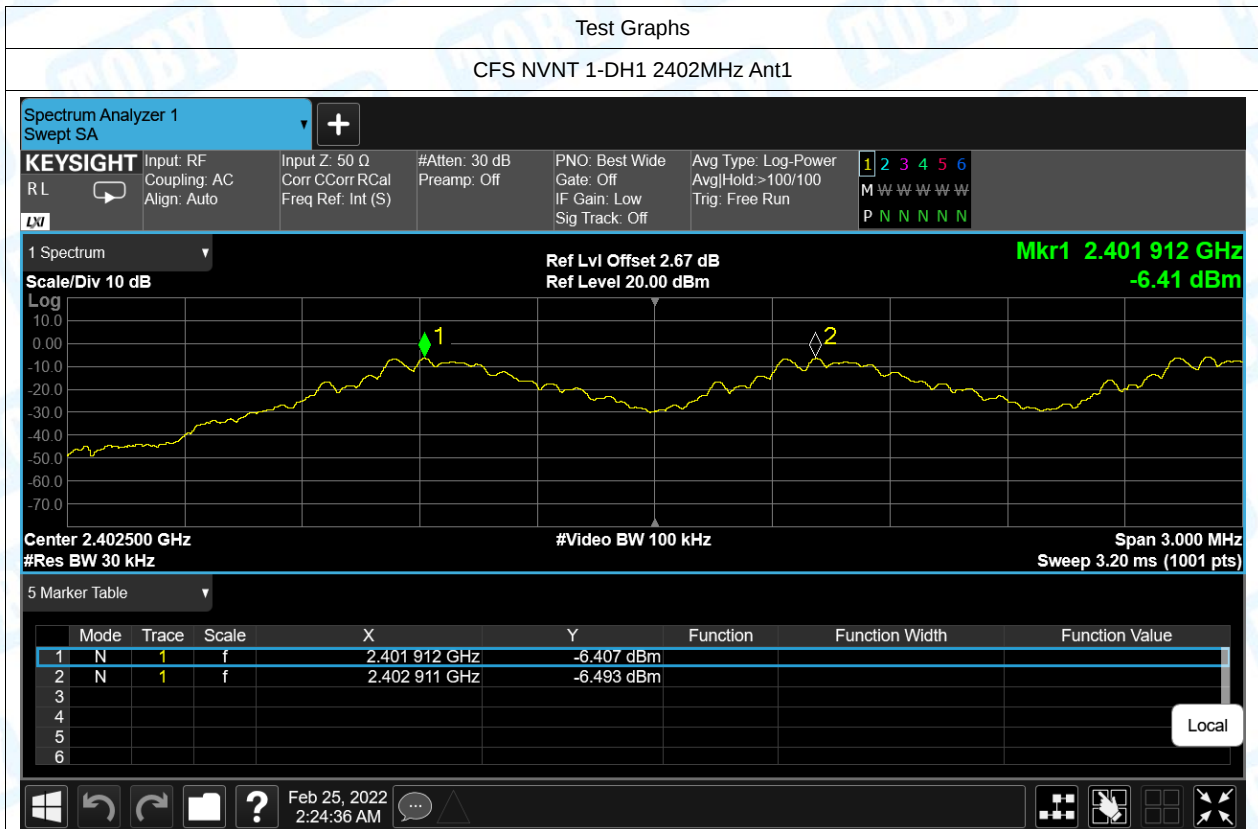
-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1

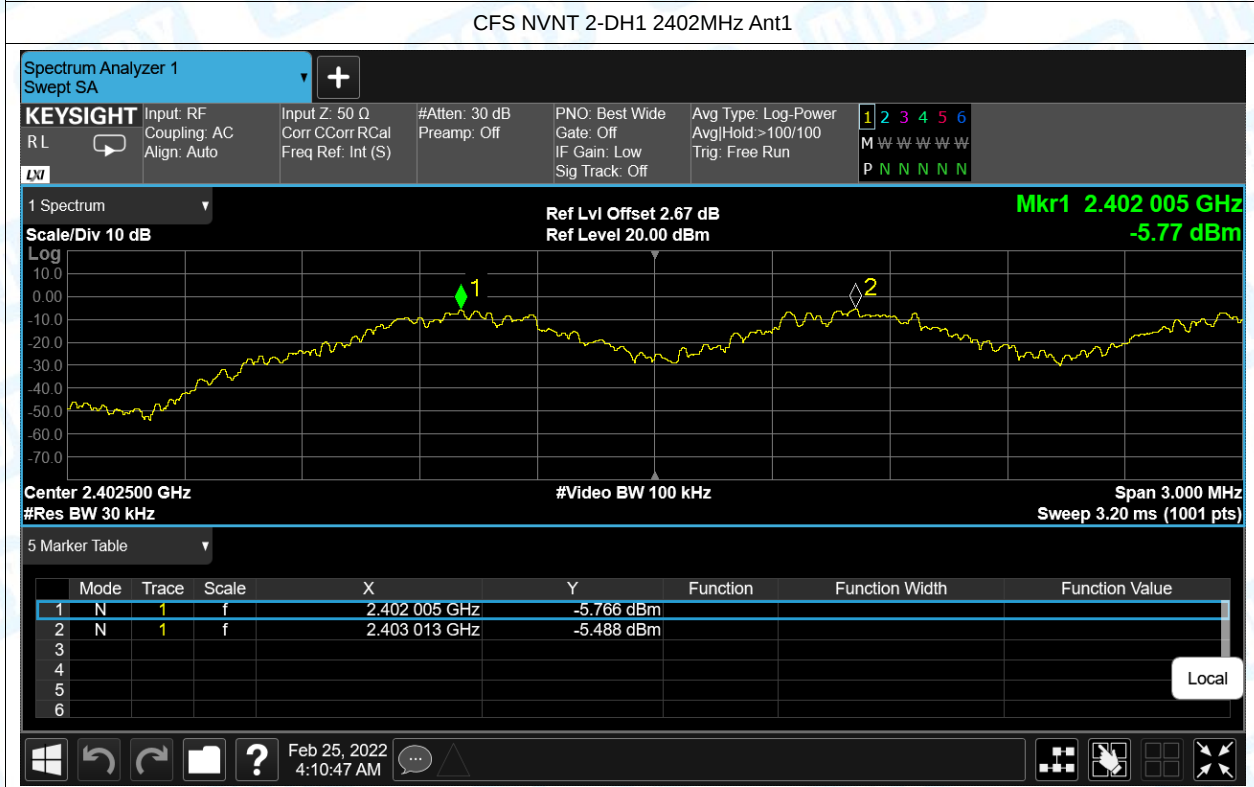
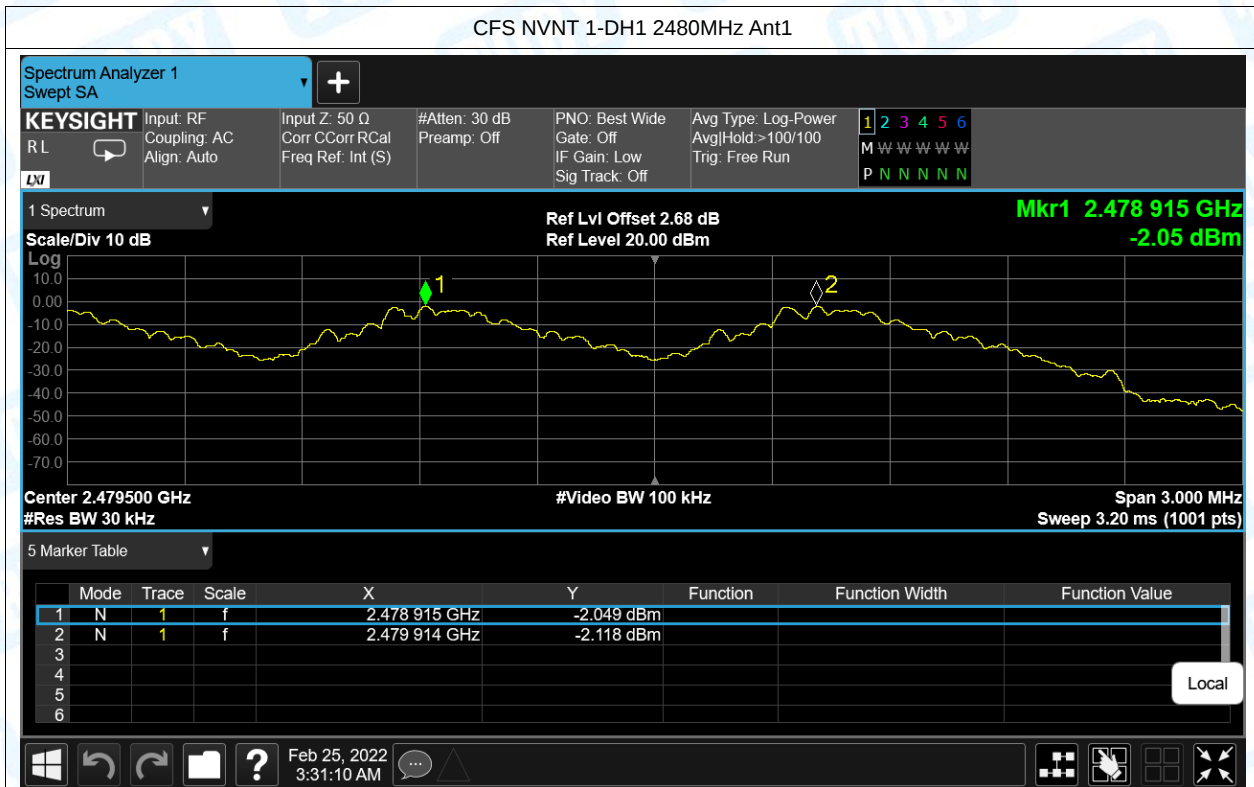


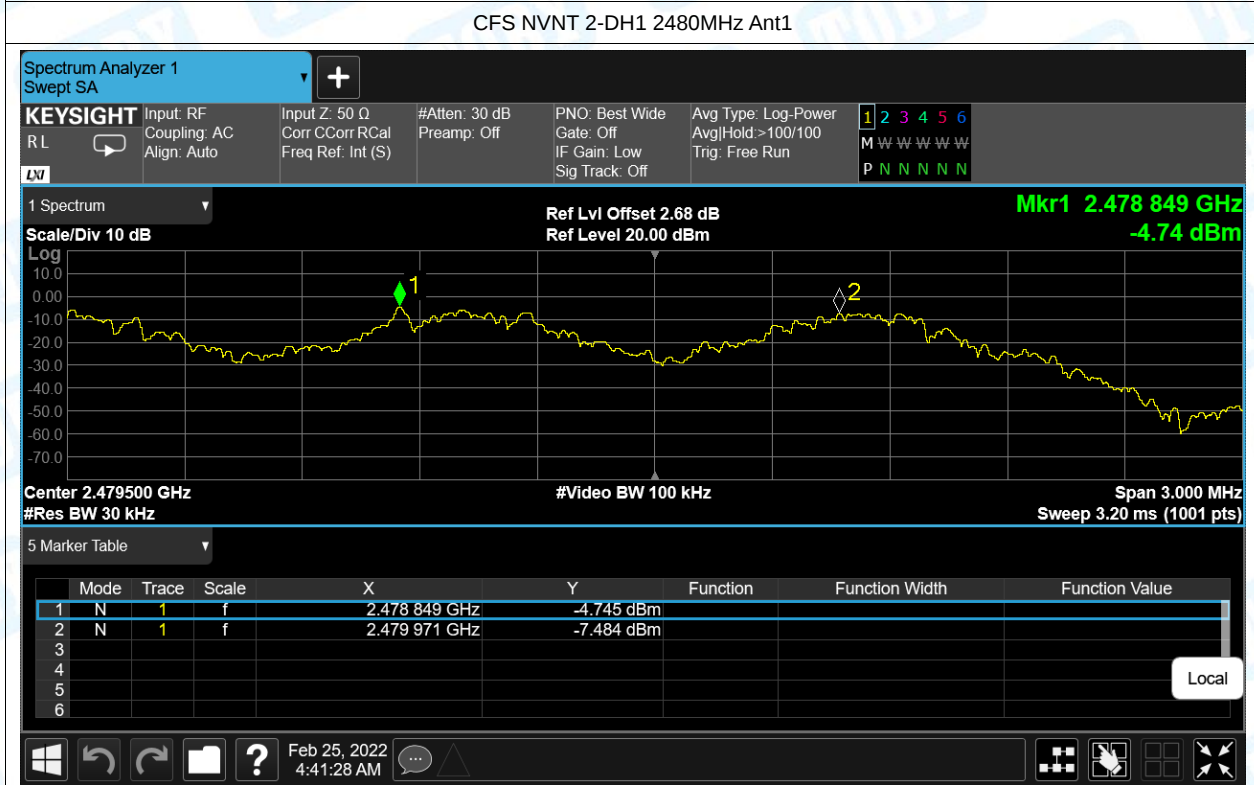
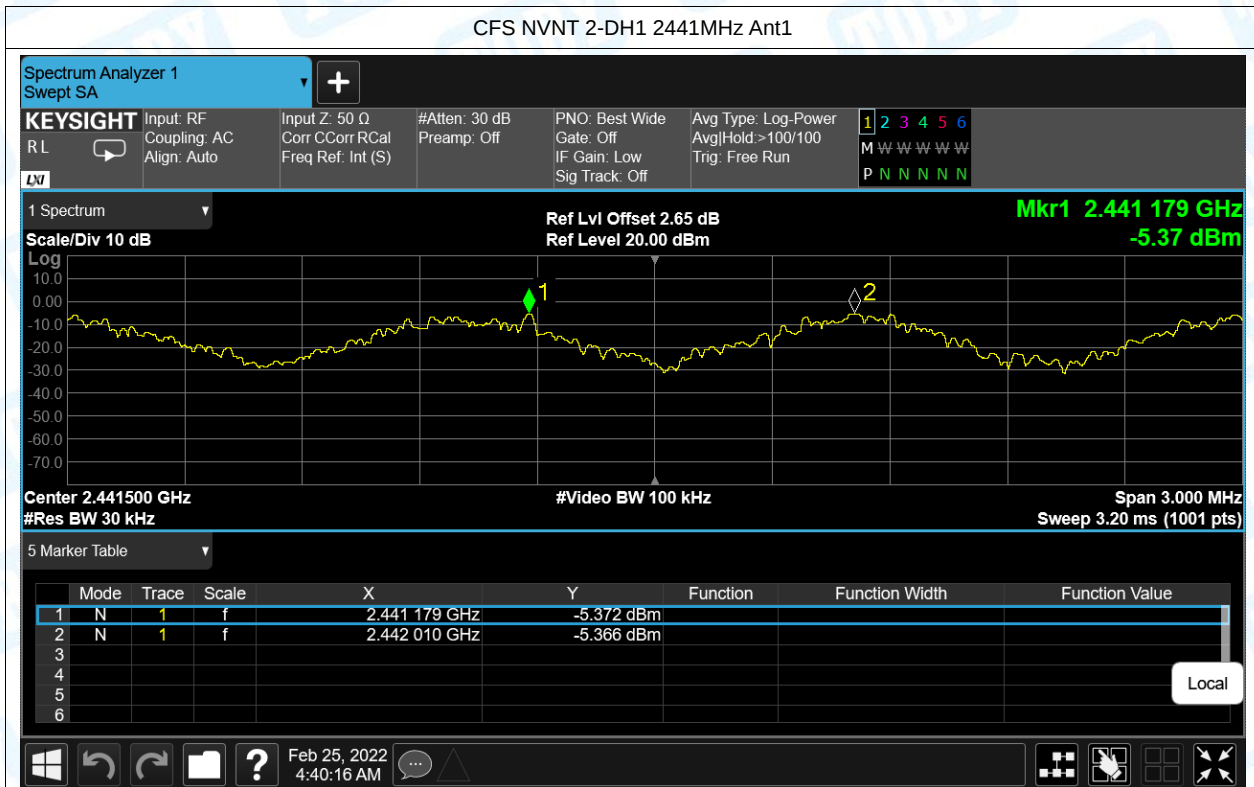


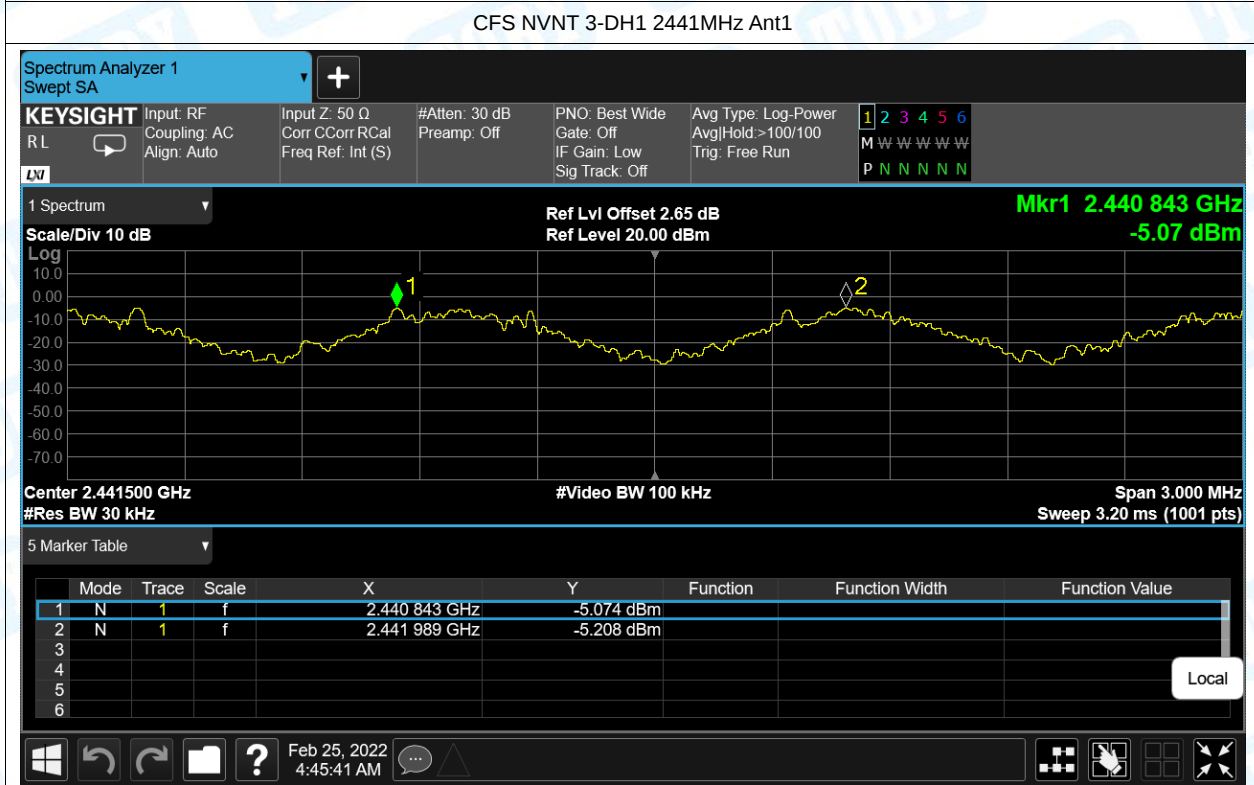
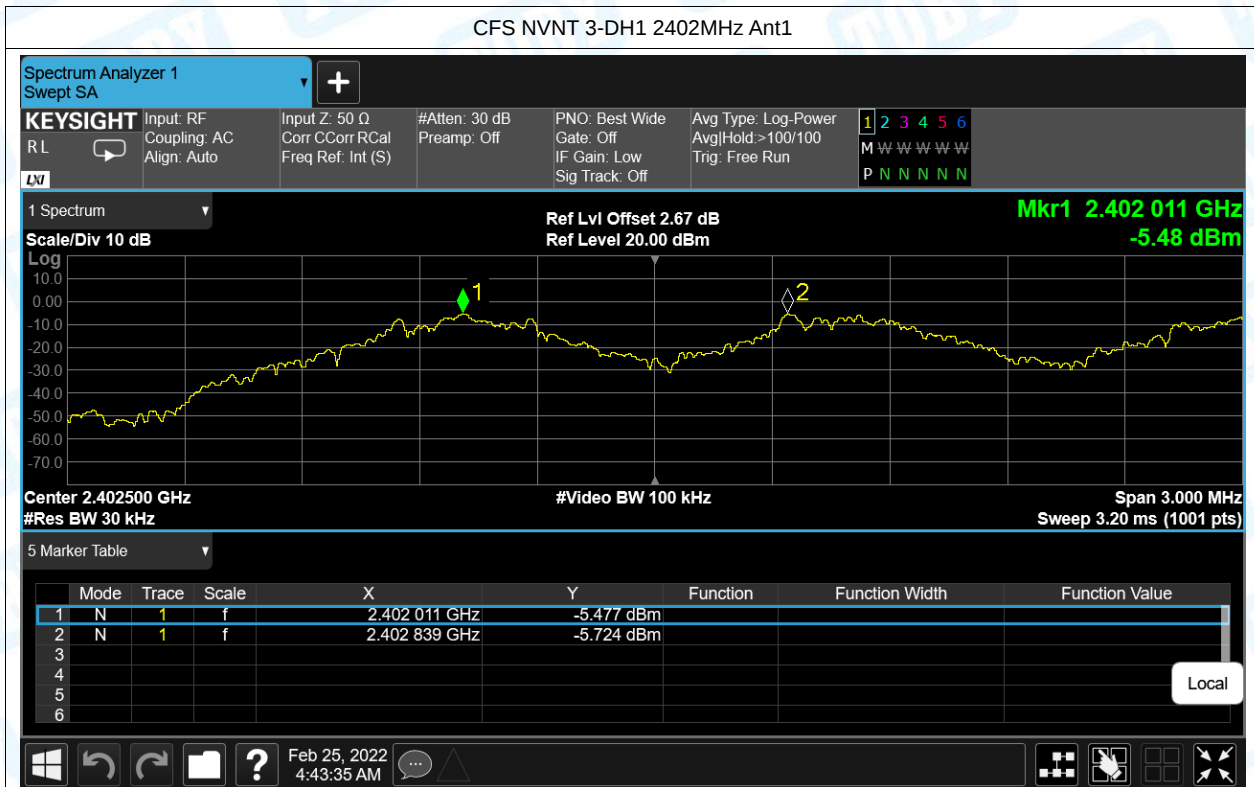
3. Carrier Frequencies Separation

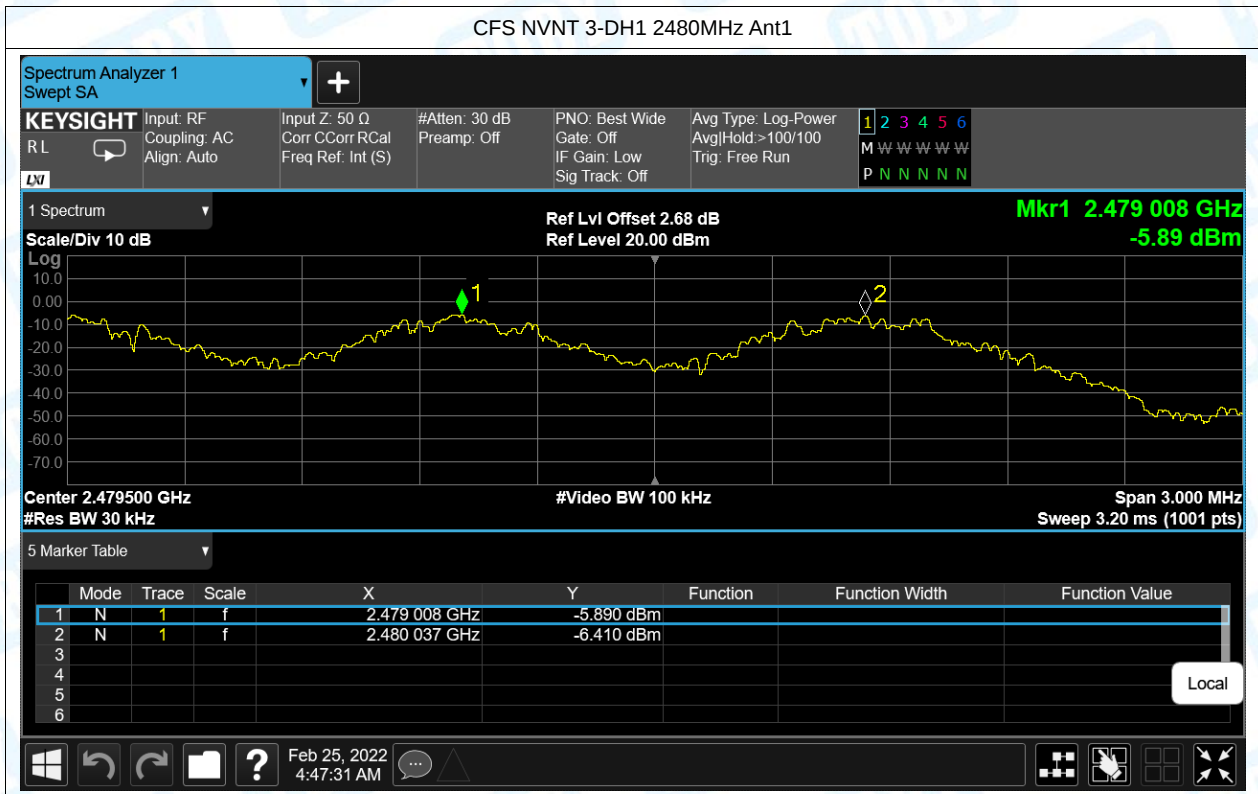
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2401.912	2402.911	0.999	0.56	Pass
NVNT	1-DH1	2441.029	2442.031	1.002	0.63	Pass
NVNT	1-DH1	2478.915	2479.914	0.999	0.56	Pass
NVNT	2-DH1	2402.005	2403.013	1.008	0.85	Pass
NVNT	2-DH1	2441.179	2442.01	0.831	0.85	Pass
NVNT	2-DH1	2478.849	2479.971	1.122	0.85	Pass
NVNT	3-DH1	2402.011	2402.839	0.828	0.83	Pass
NVNT	3-DH1	2440.843	2441.989	1.146	0.83	Pass
NVNT	3-DH1	2479.008	2480.037	1.029	0.83	Pass









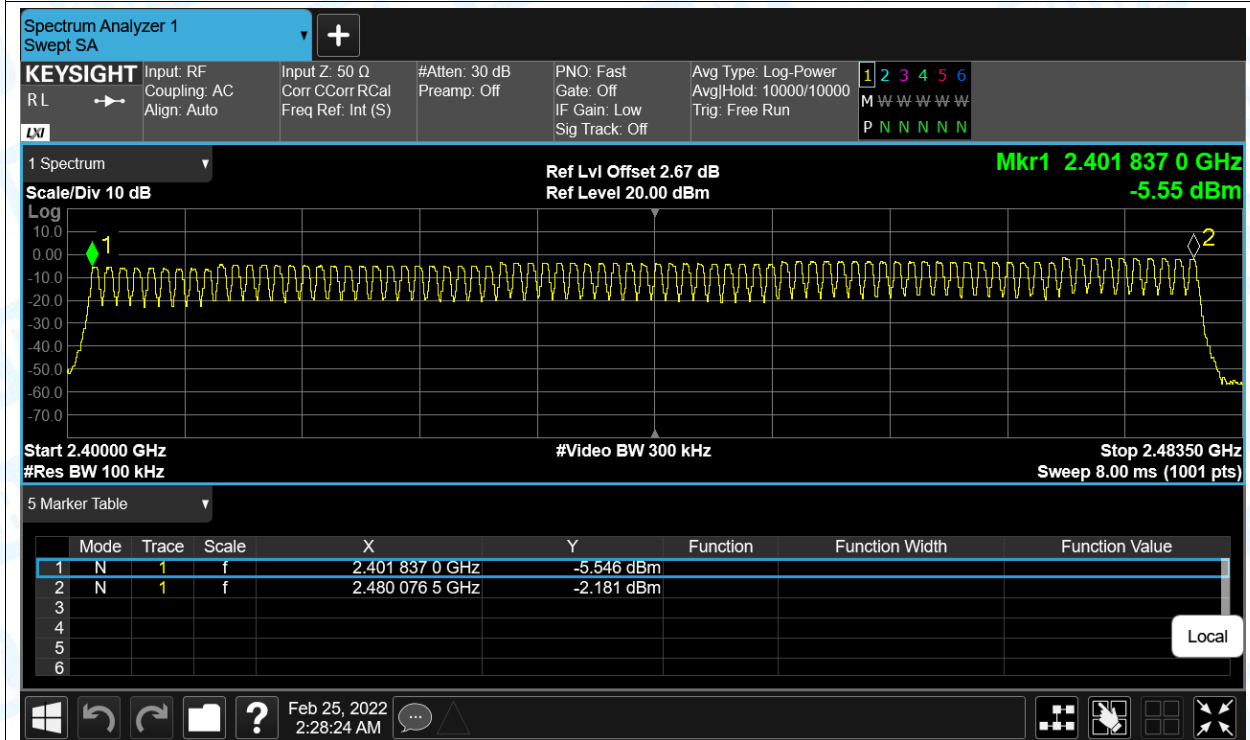


4. Number of Hopping Channel

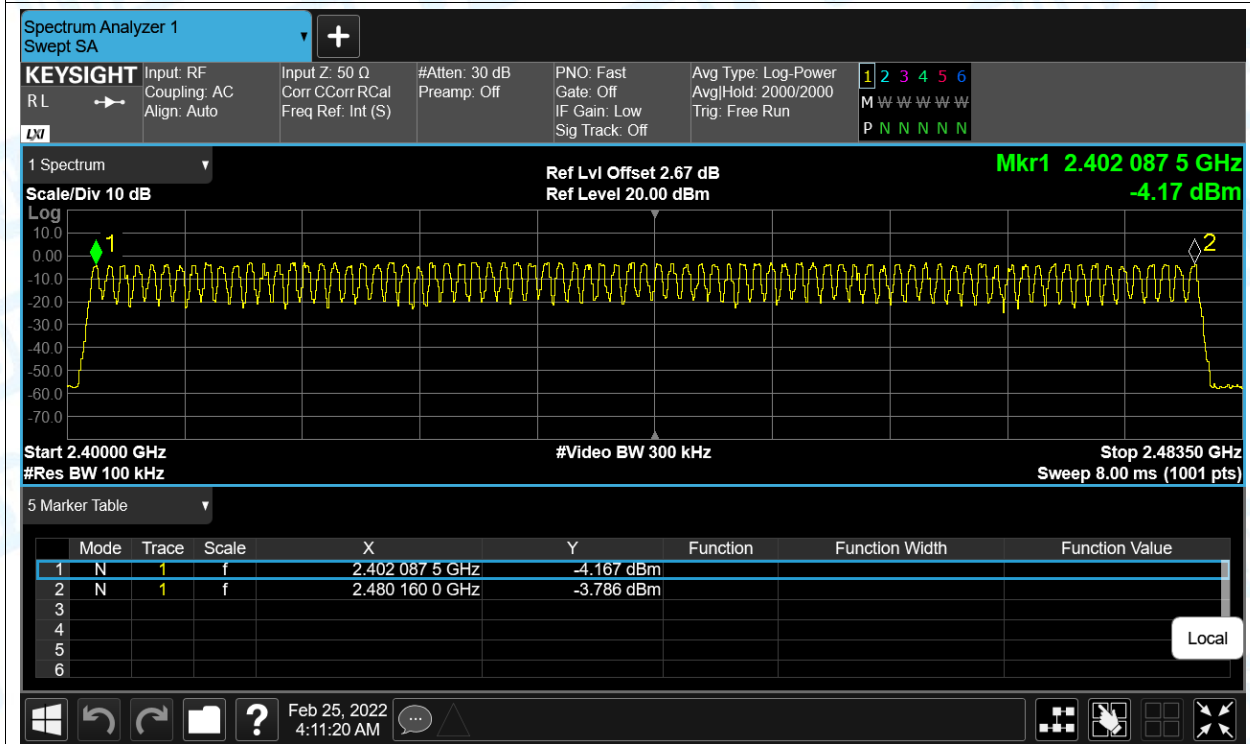
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH1	79	15	Pass
NVNT	2-DH1	79	15	Pass
NVNT	3-DH1	79	15	Pass

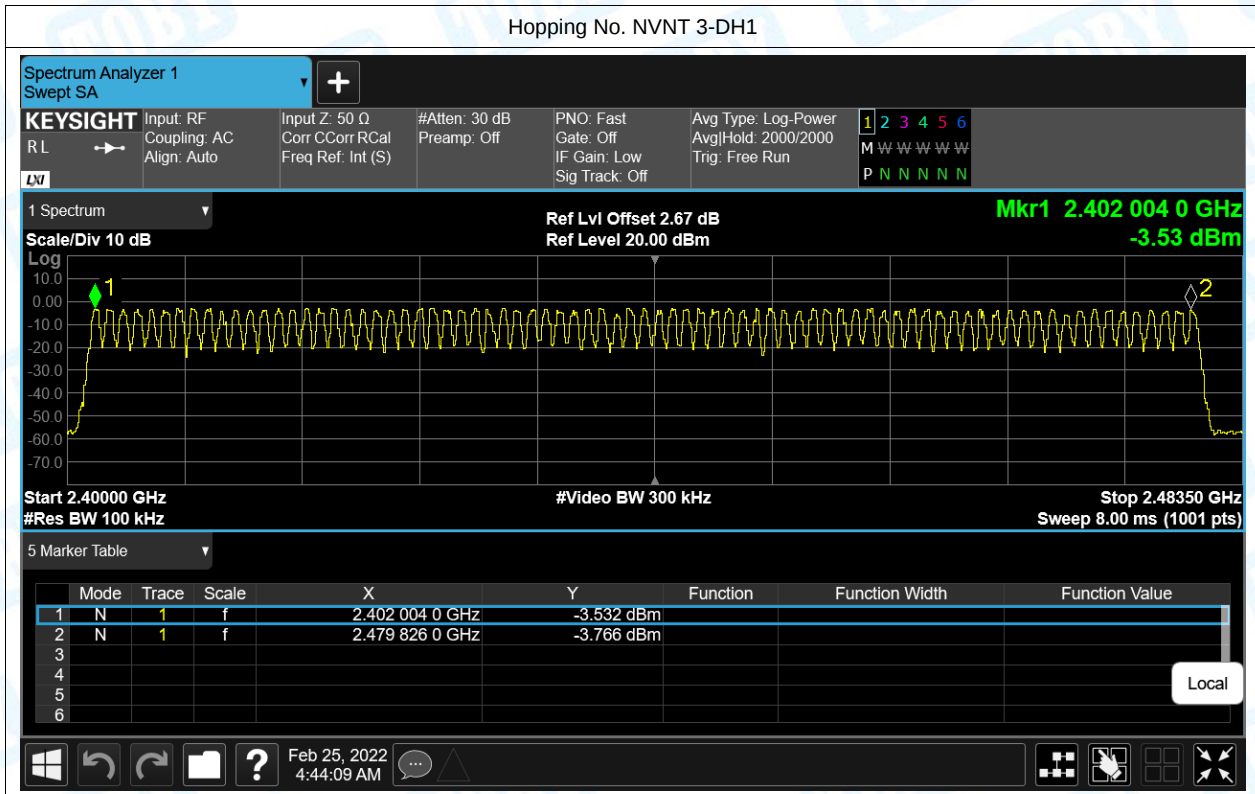
Test Graphs

Hopping No. NVNT 1-DH1



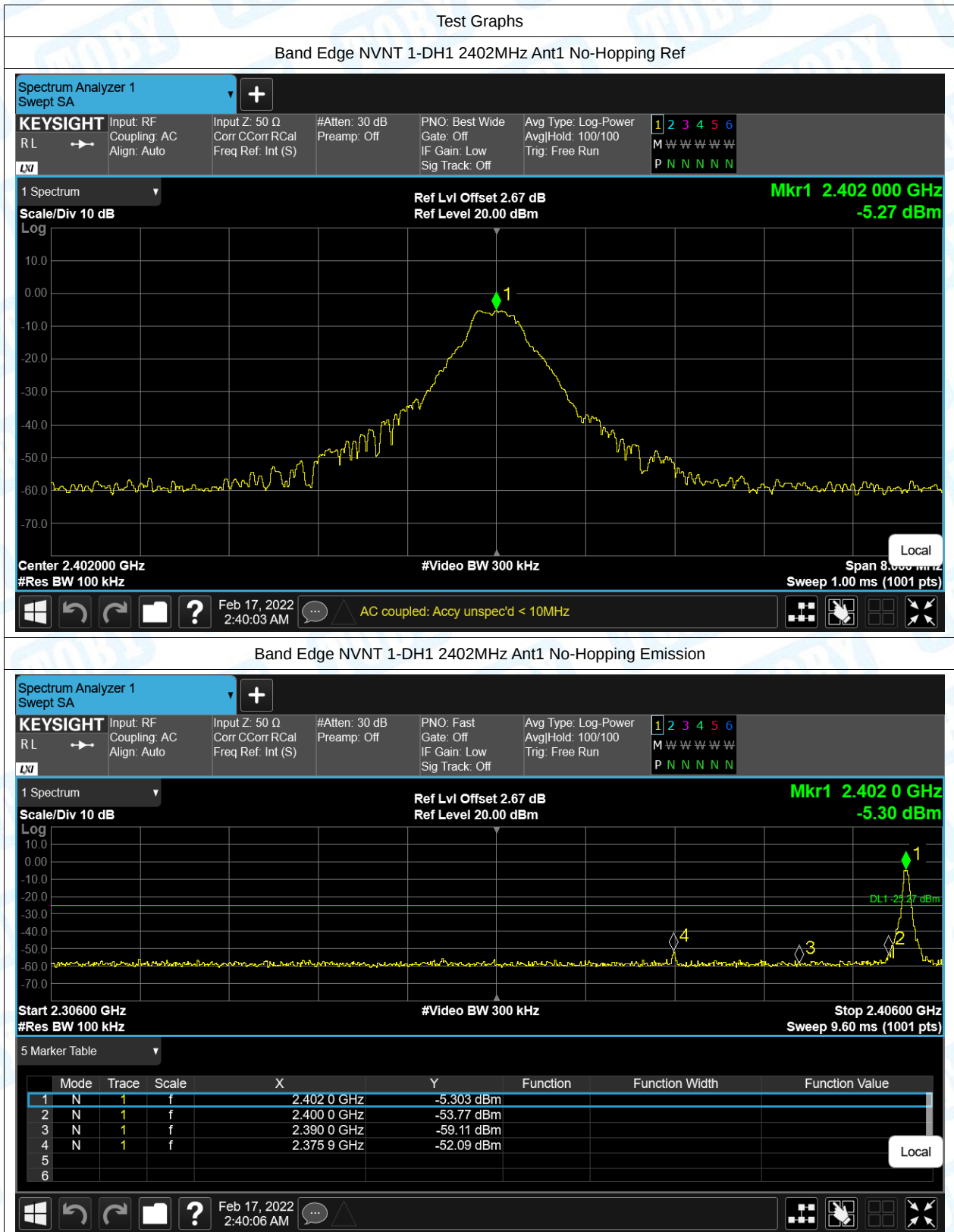
Hopping No. NVNT 2-DH1

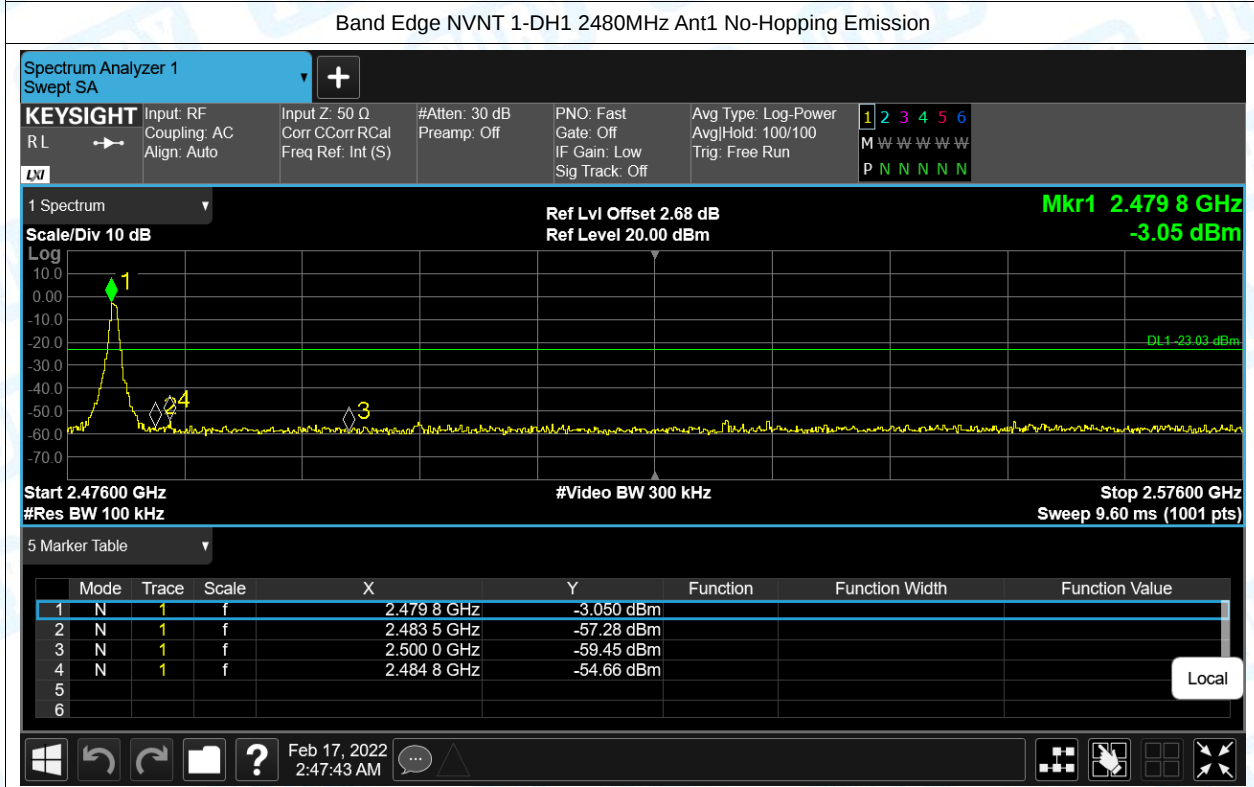
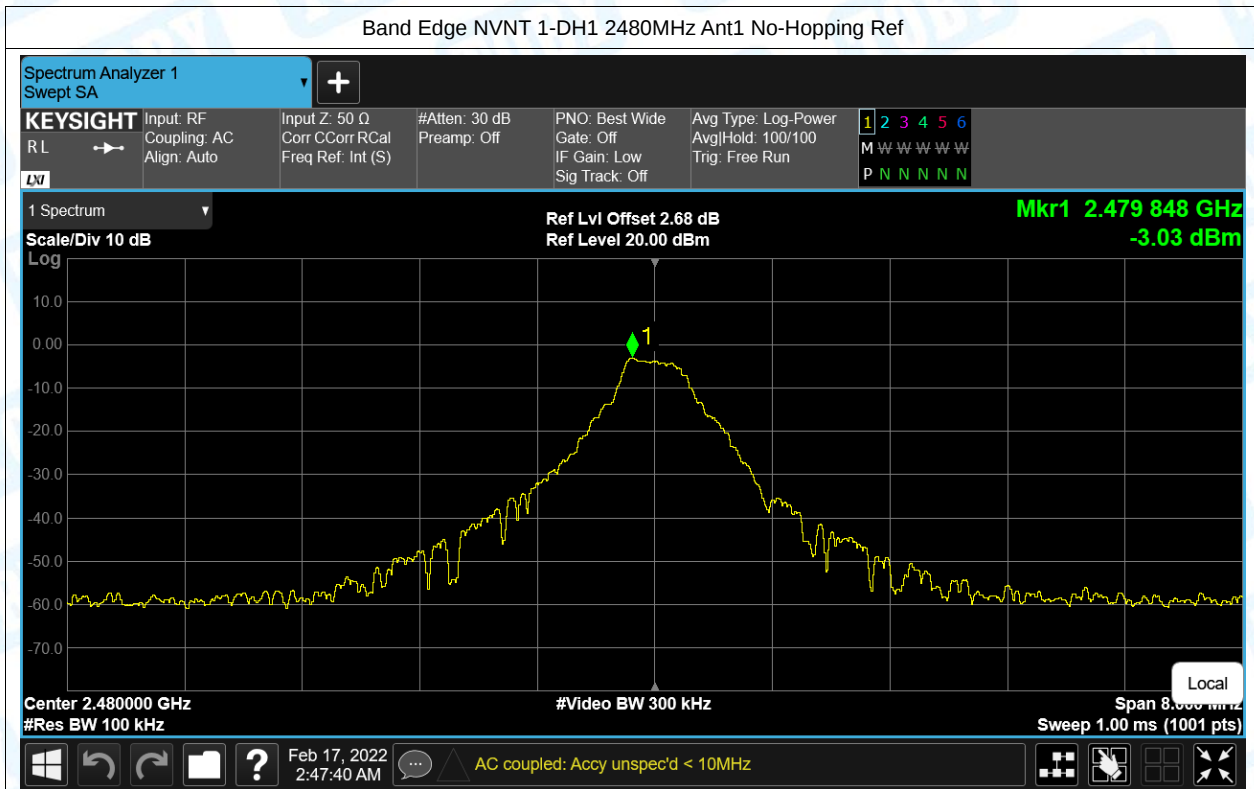


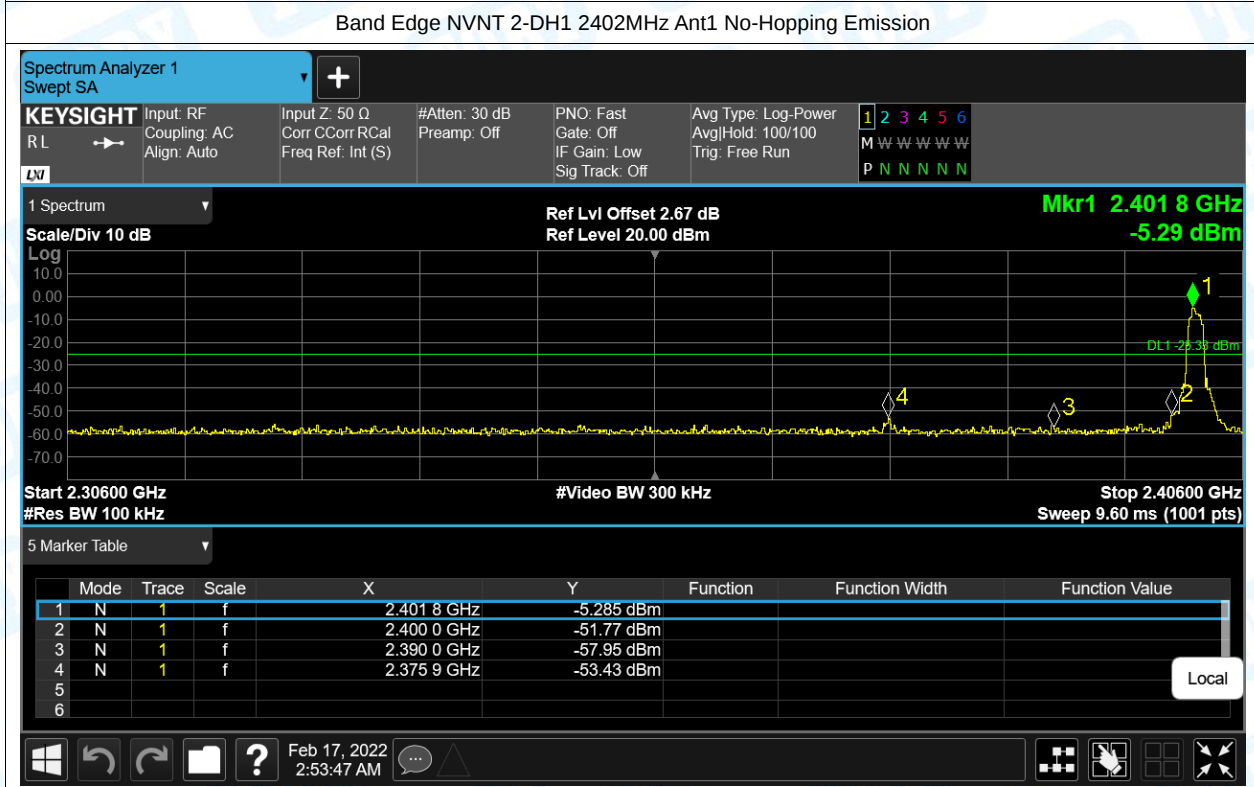
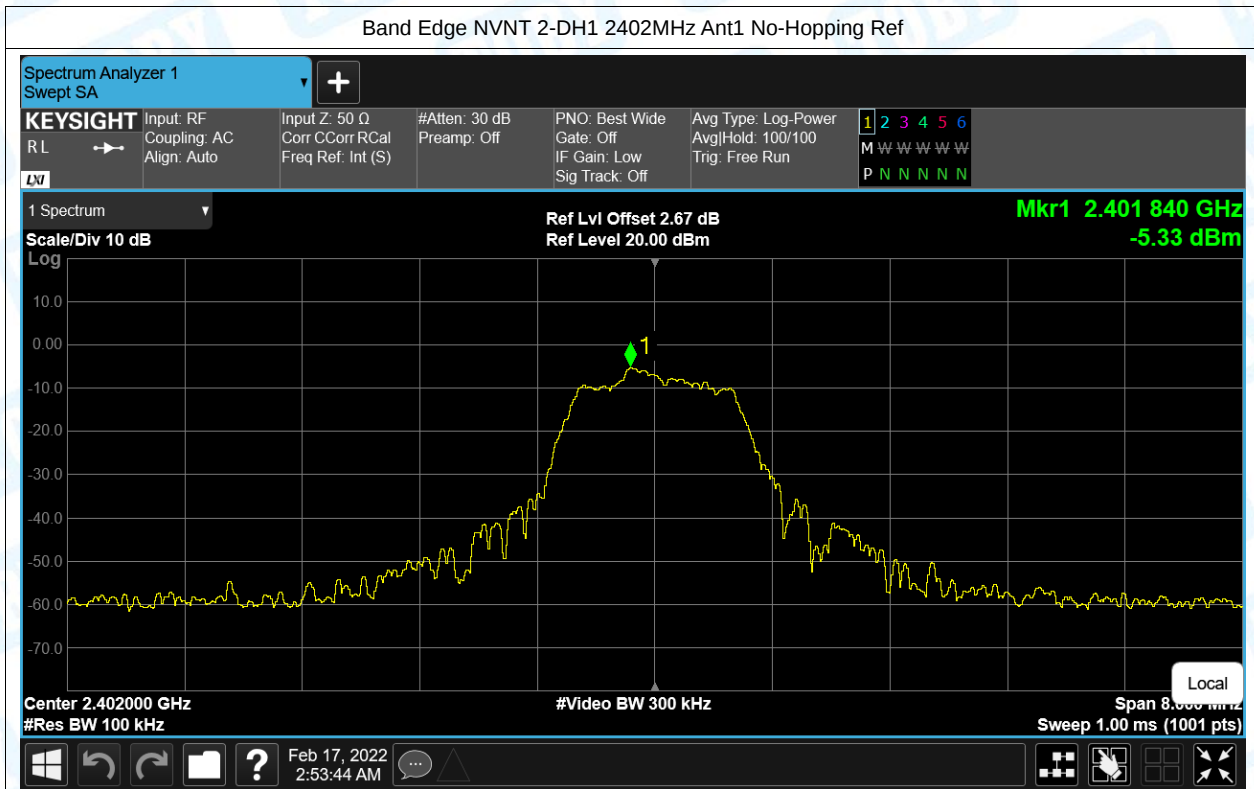


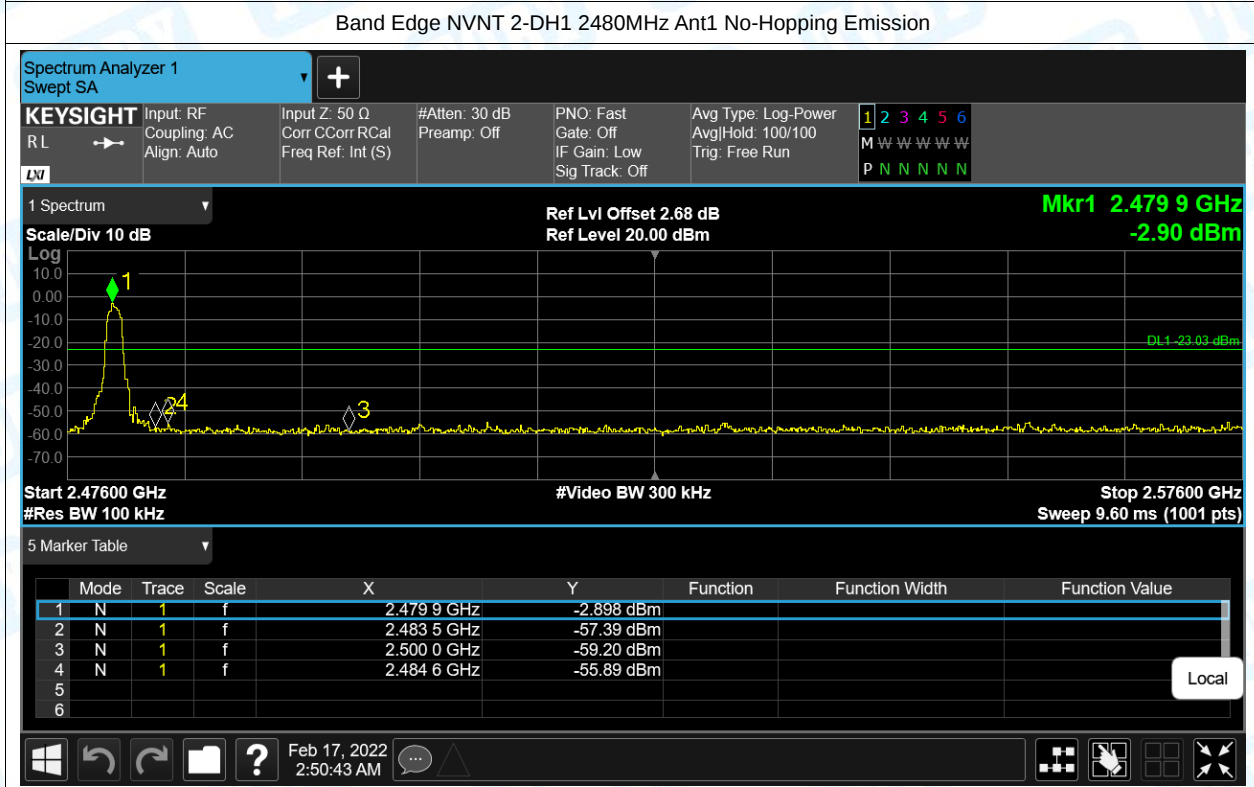
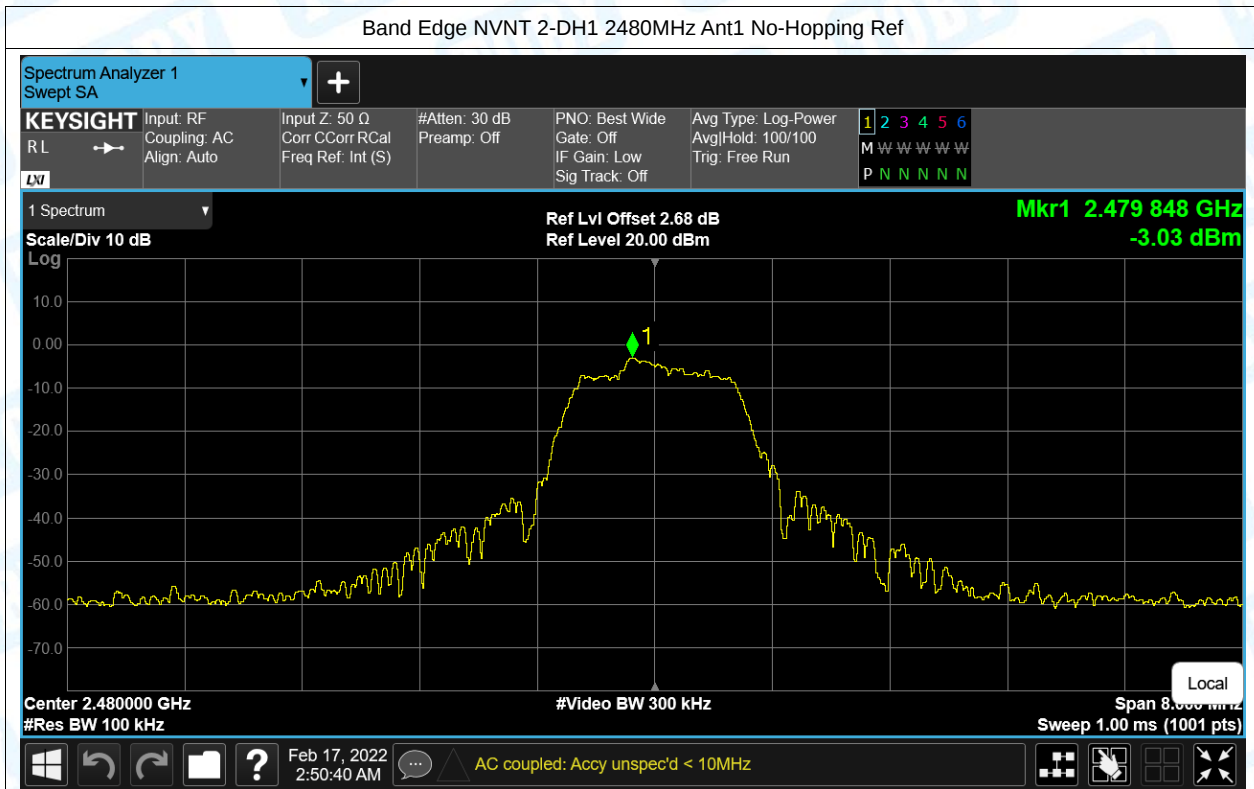
5. Band Edge

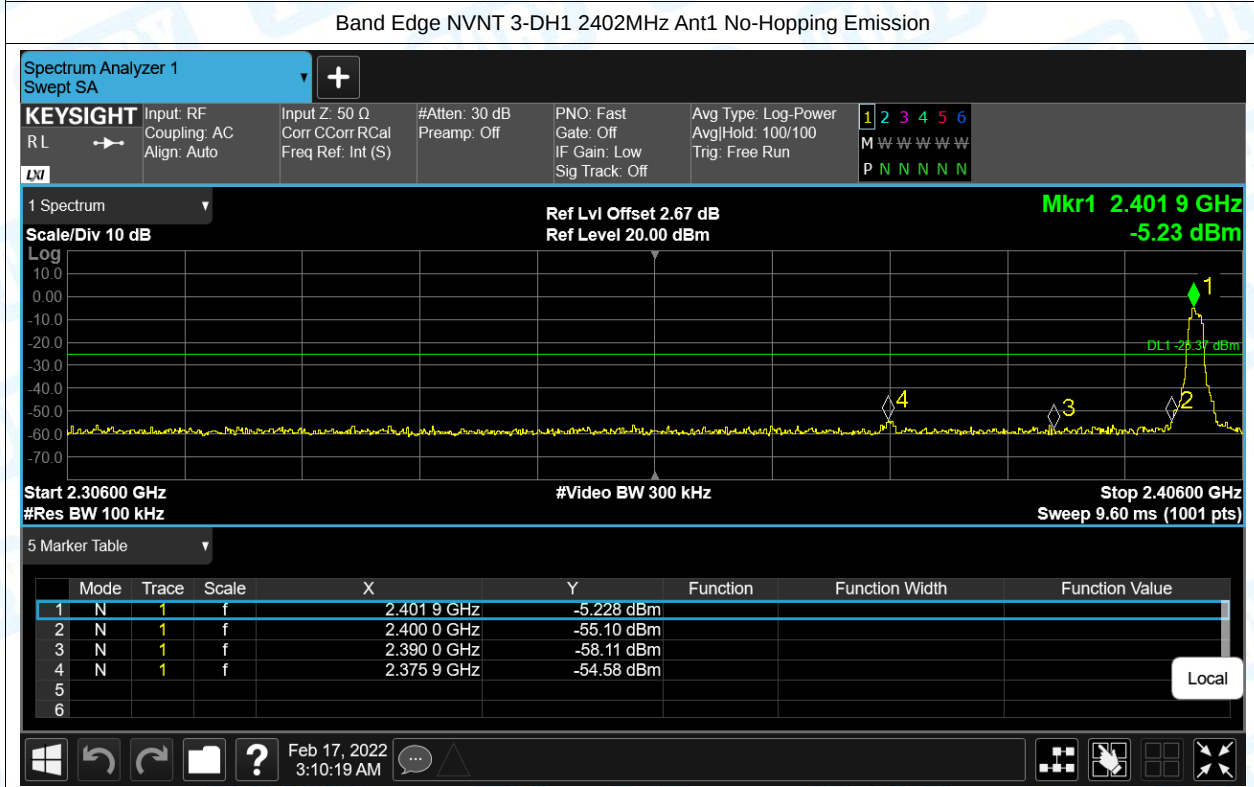
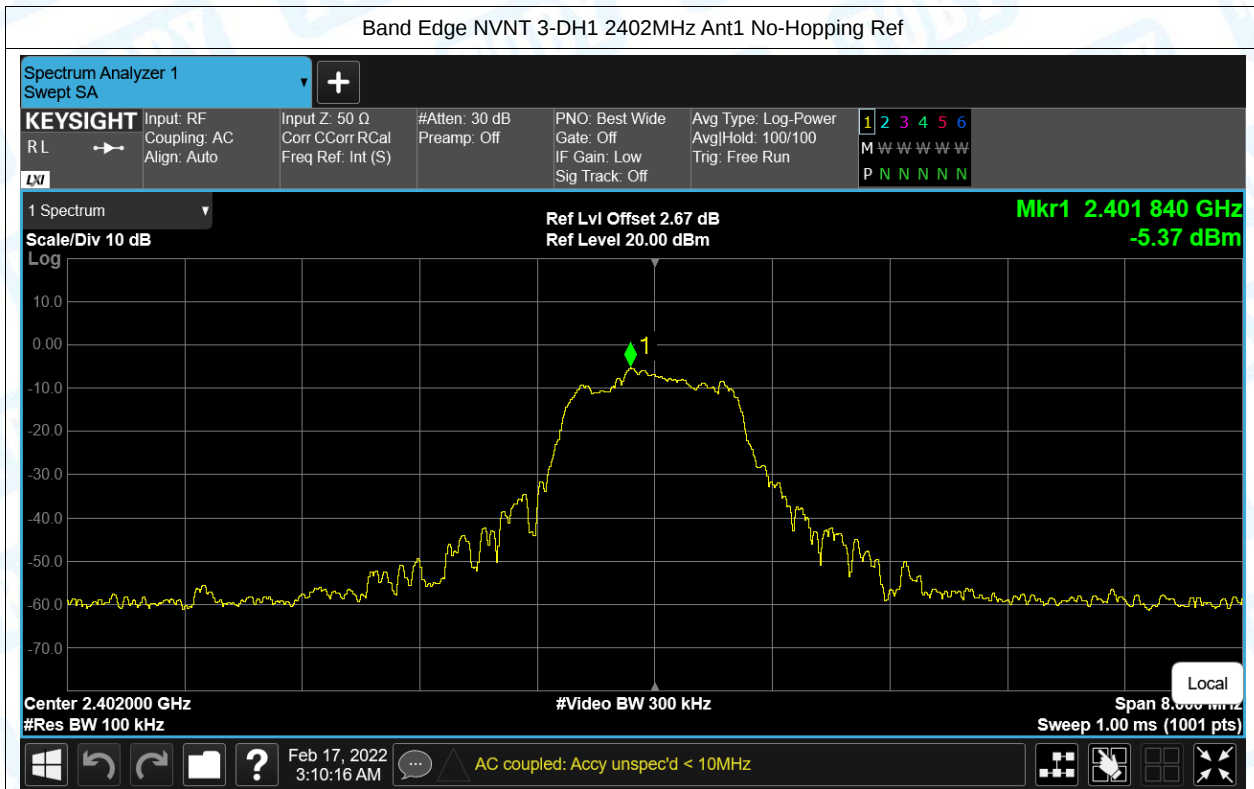
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	No-Hopping	-46.82	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-51.63	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-48.1	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-52.86	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-49.21	-20	Pass
NVNT	3-DH1	2480	No-Hopping	-53.12	-20	Pass

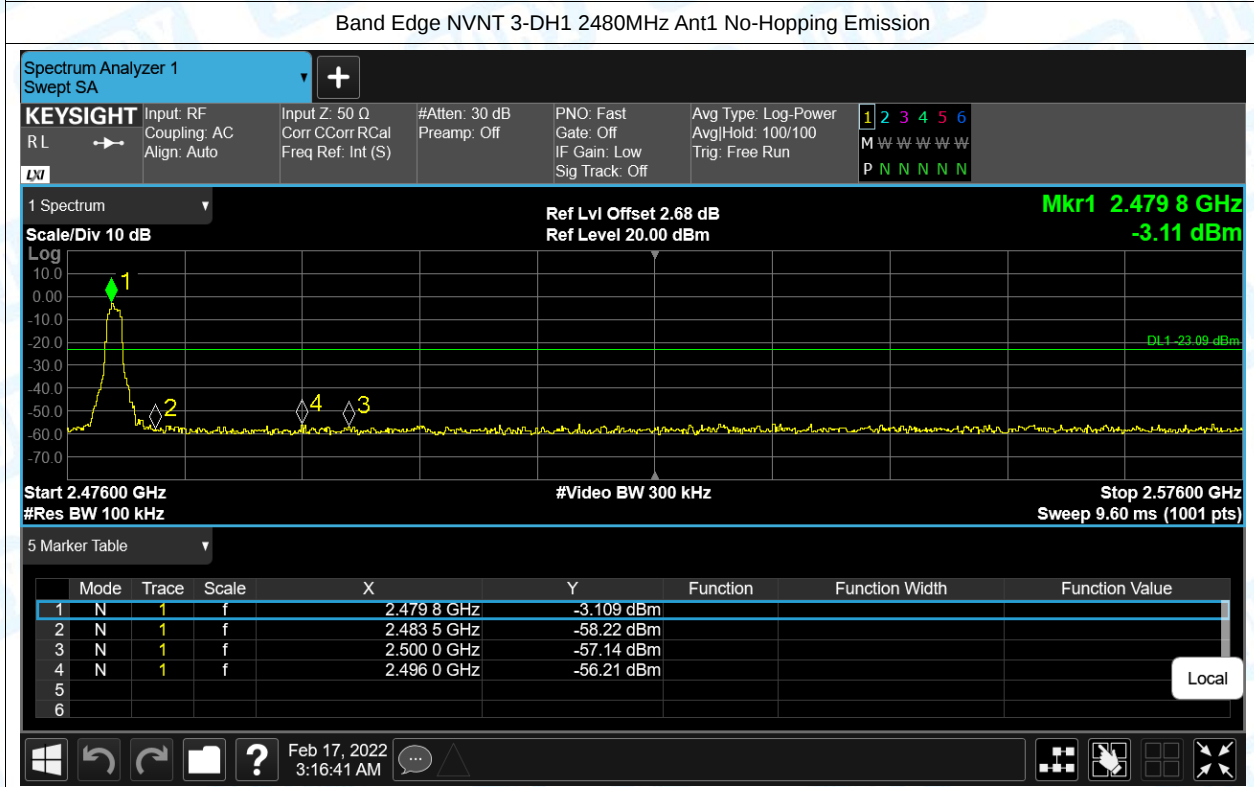
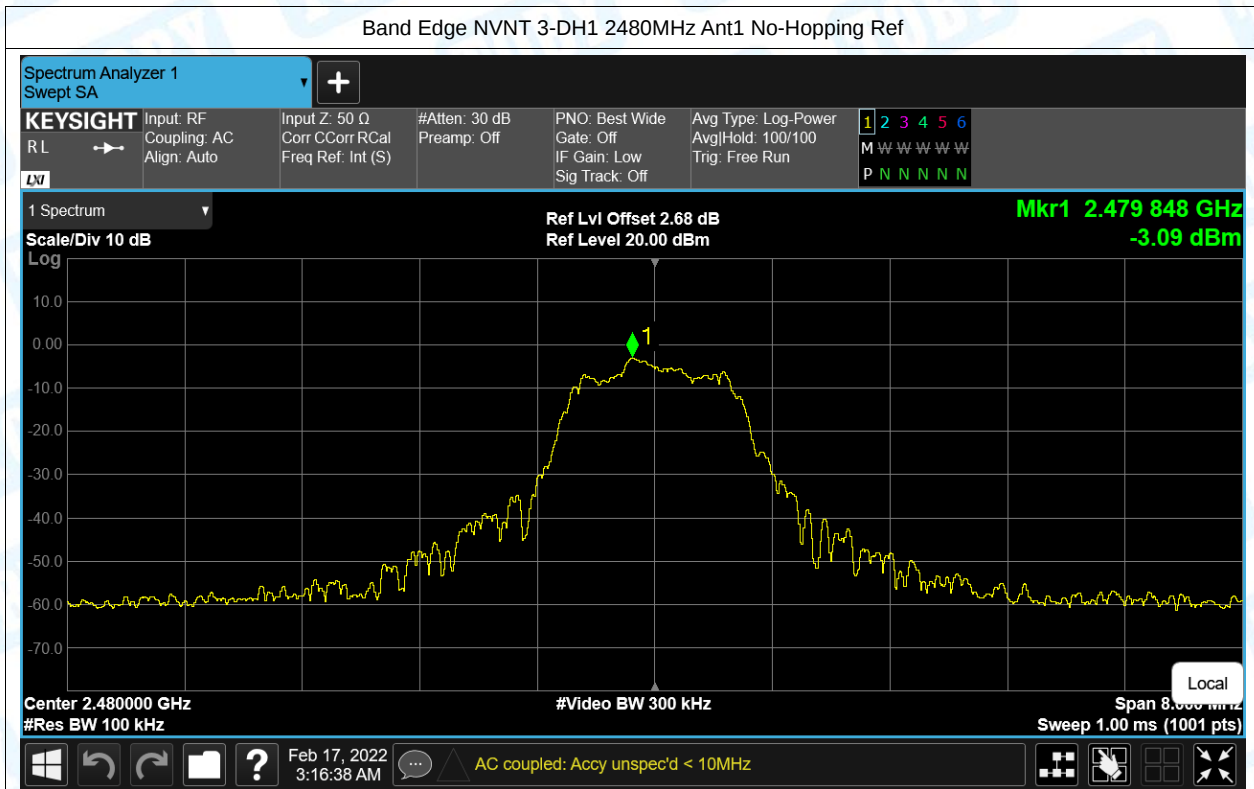










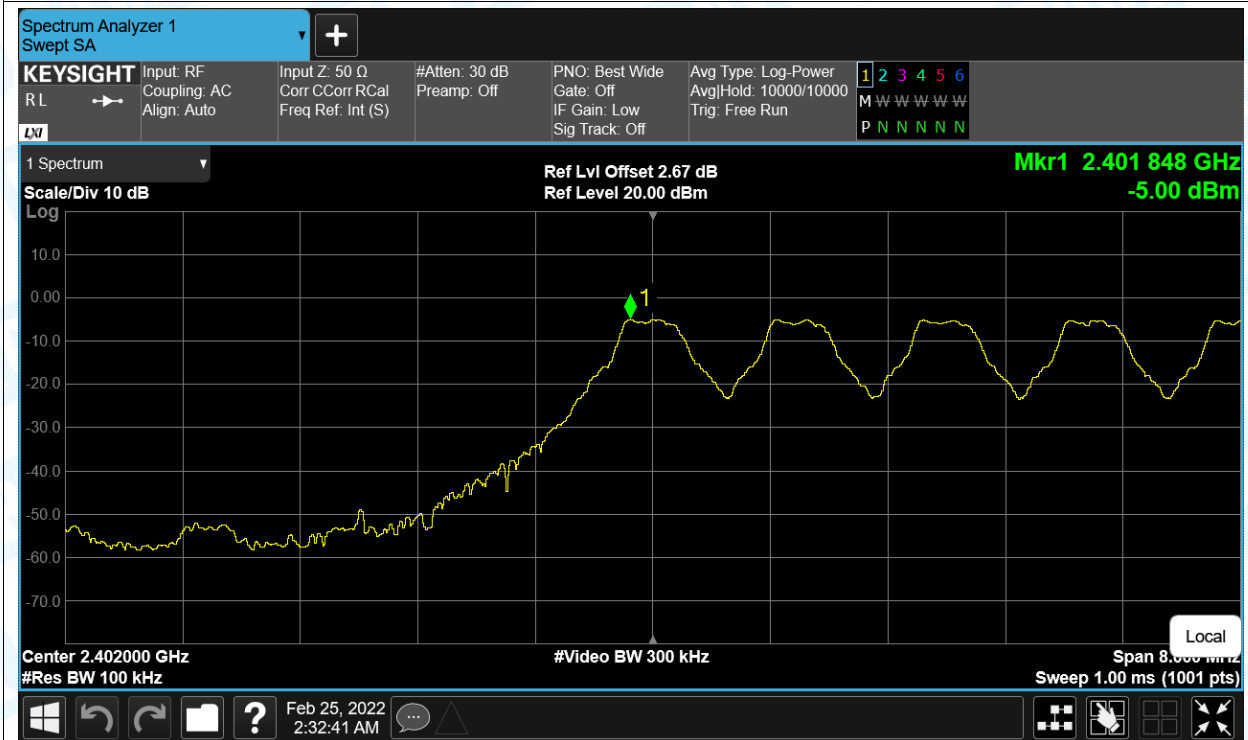


6. Band Edge(Hopping)

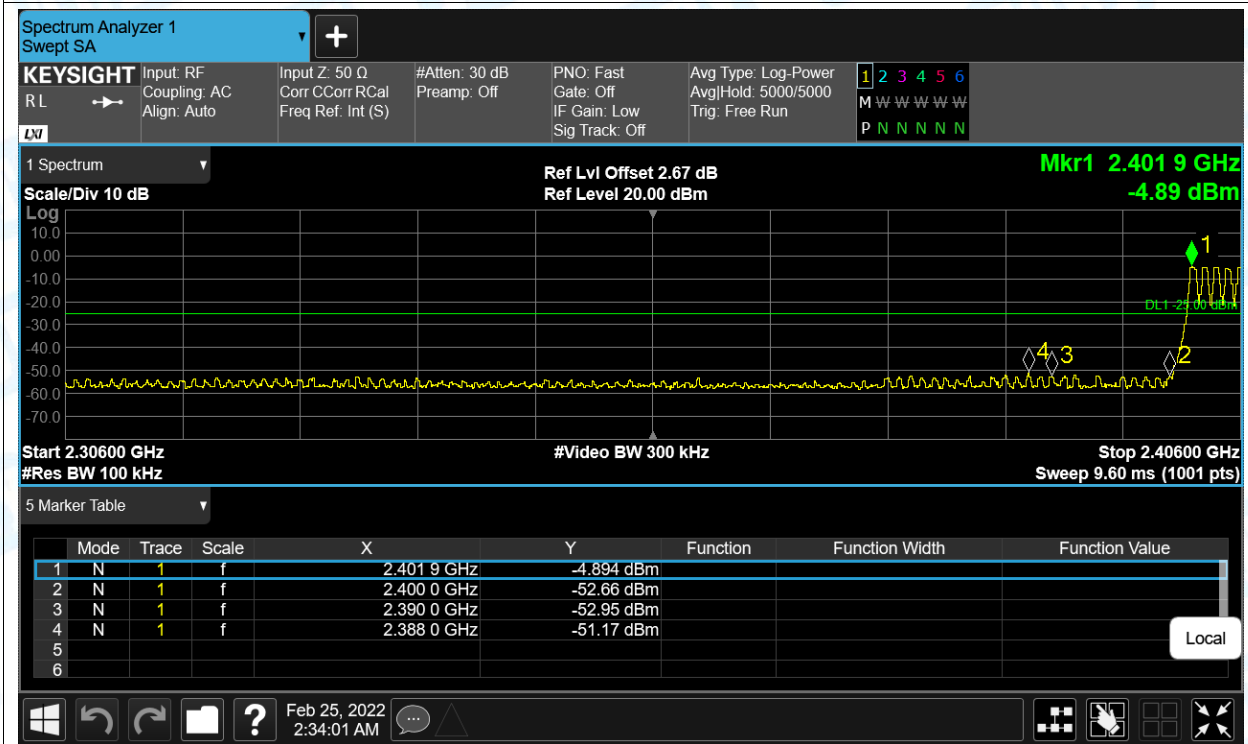
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Hopping	-46.17	-20	Pass
NVNT	1-DH1	2480	Hopping	-51.74	-20	Pass
NVNT	2-DH1	2402	Hopping	-51.49	-20	Pass
NVNT	2-DH1	2480	Hopping	-51.16	-20	Pass
NVNT	3-DH1	2402	Hopping	-52.32	-20	Pass
NVNT	3-DH1	2480	Hopping	-51.73	-20	Pass

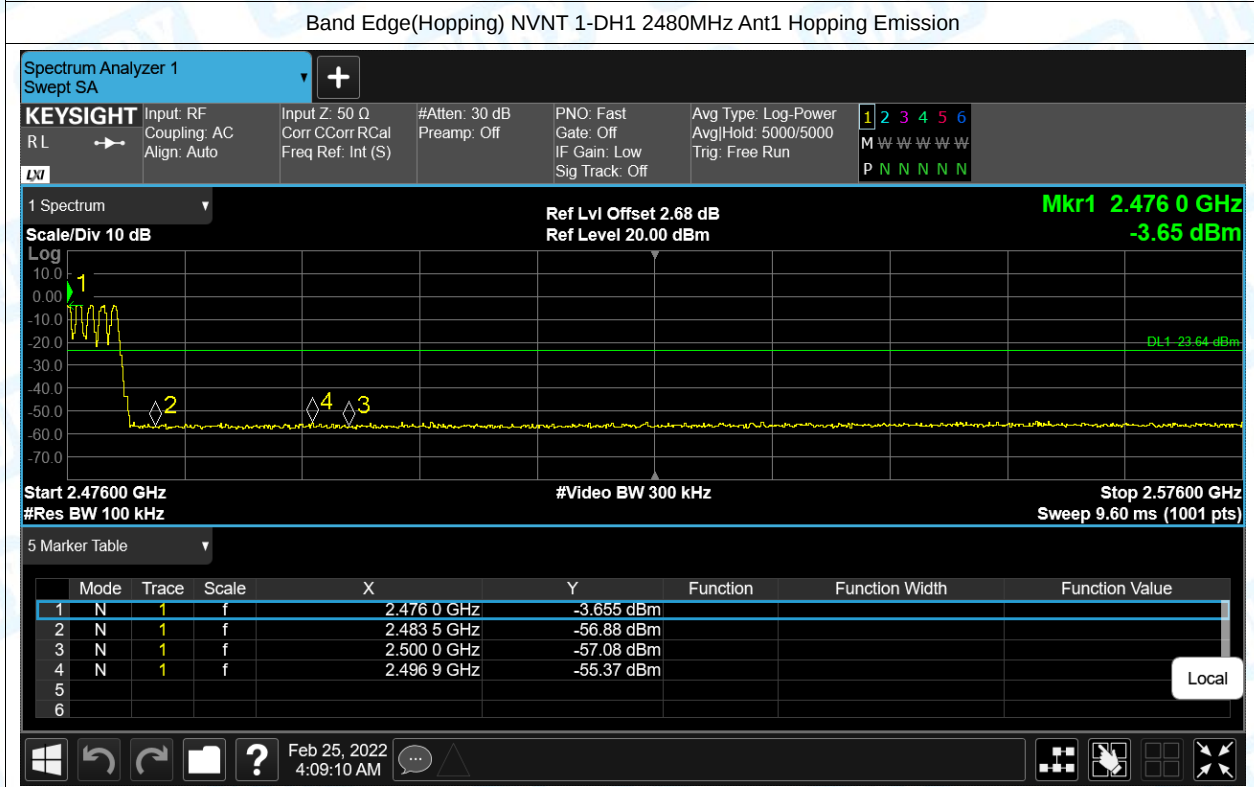
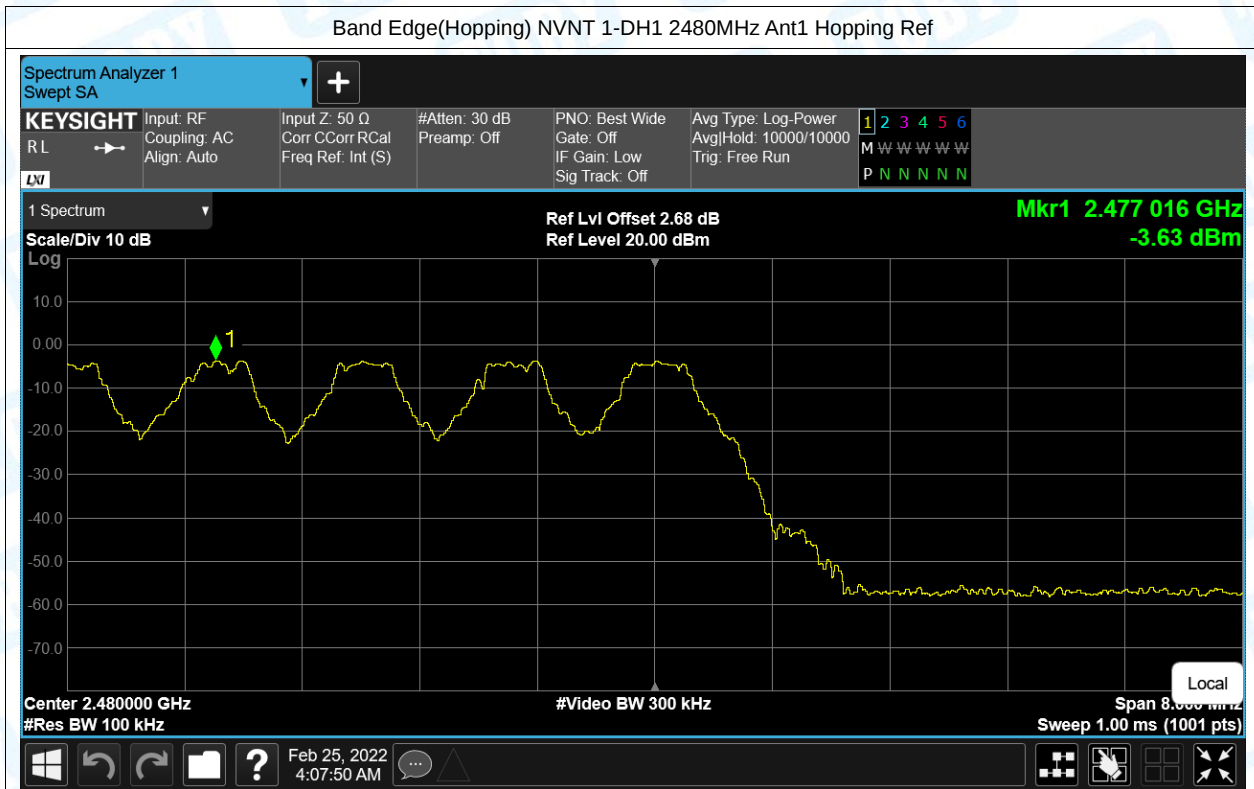
Test Graphs

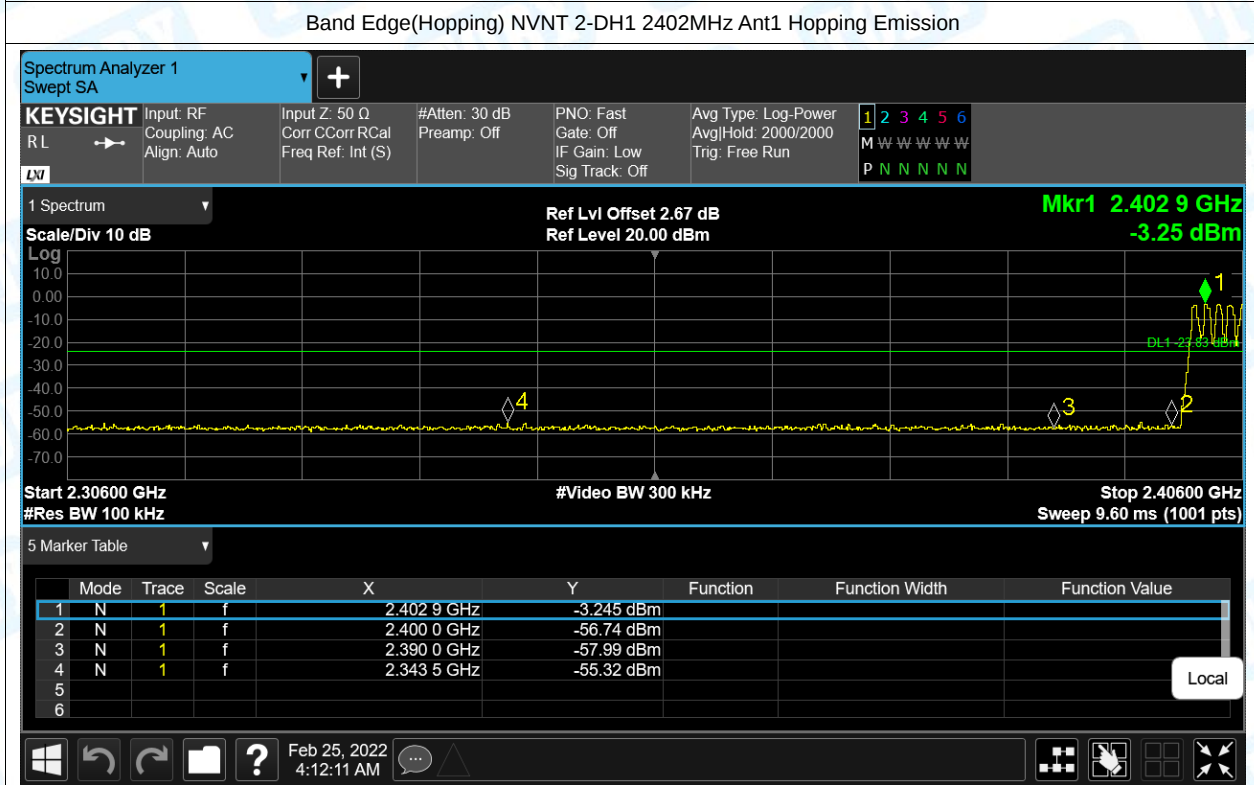
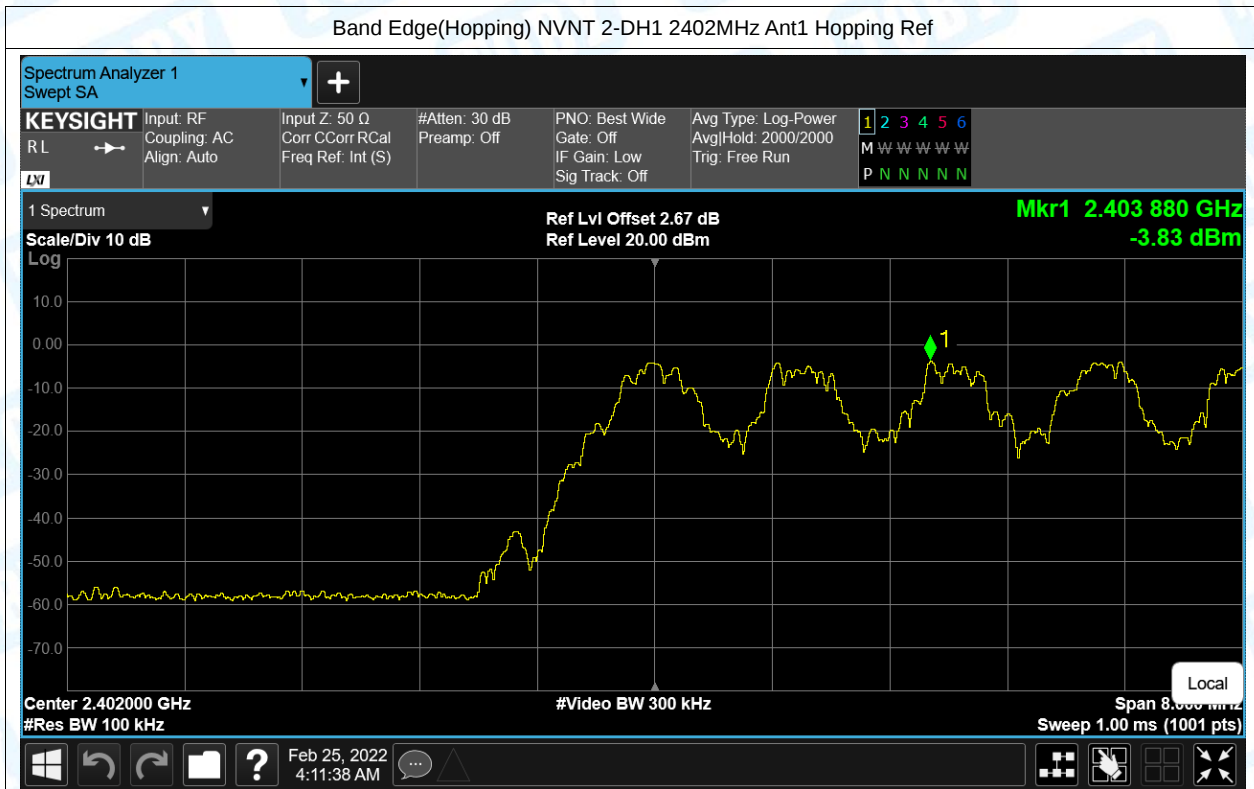
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref

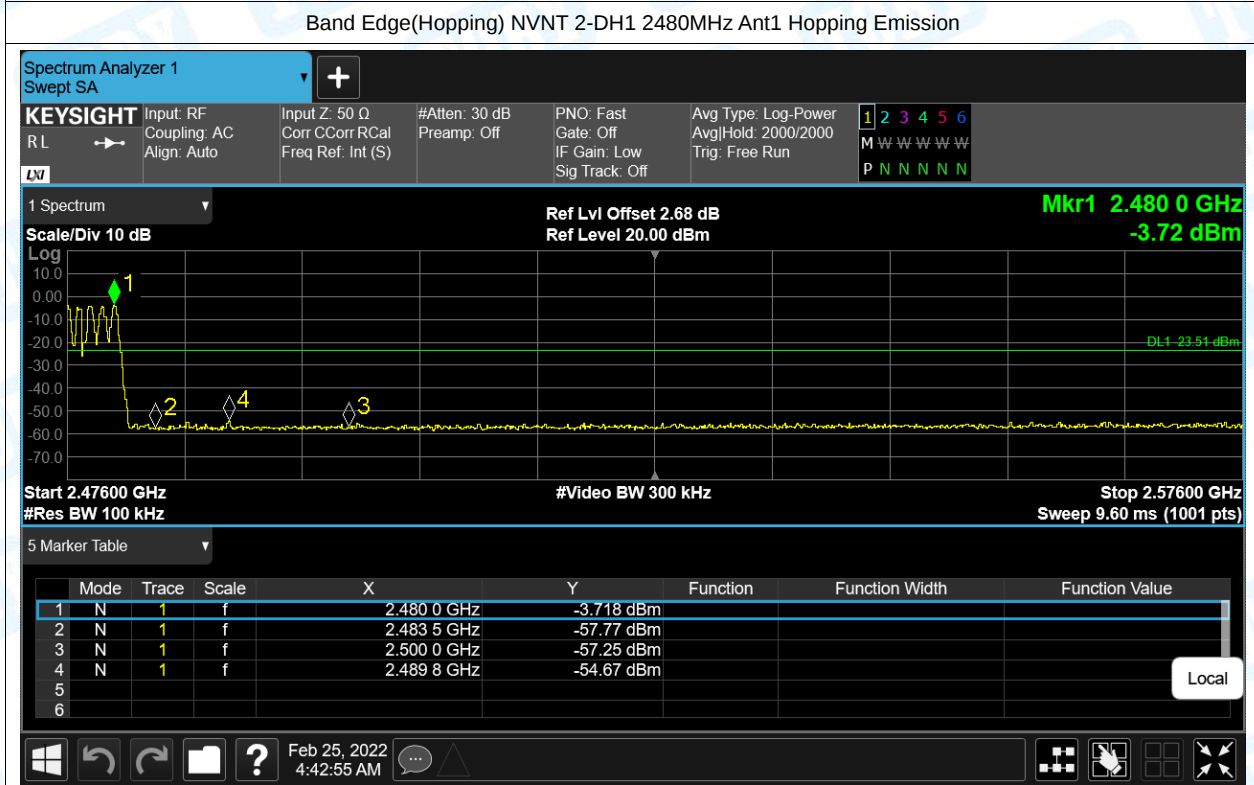
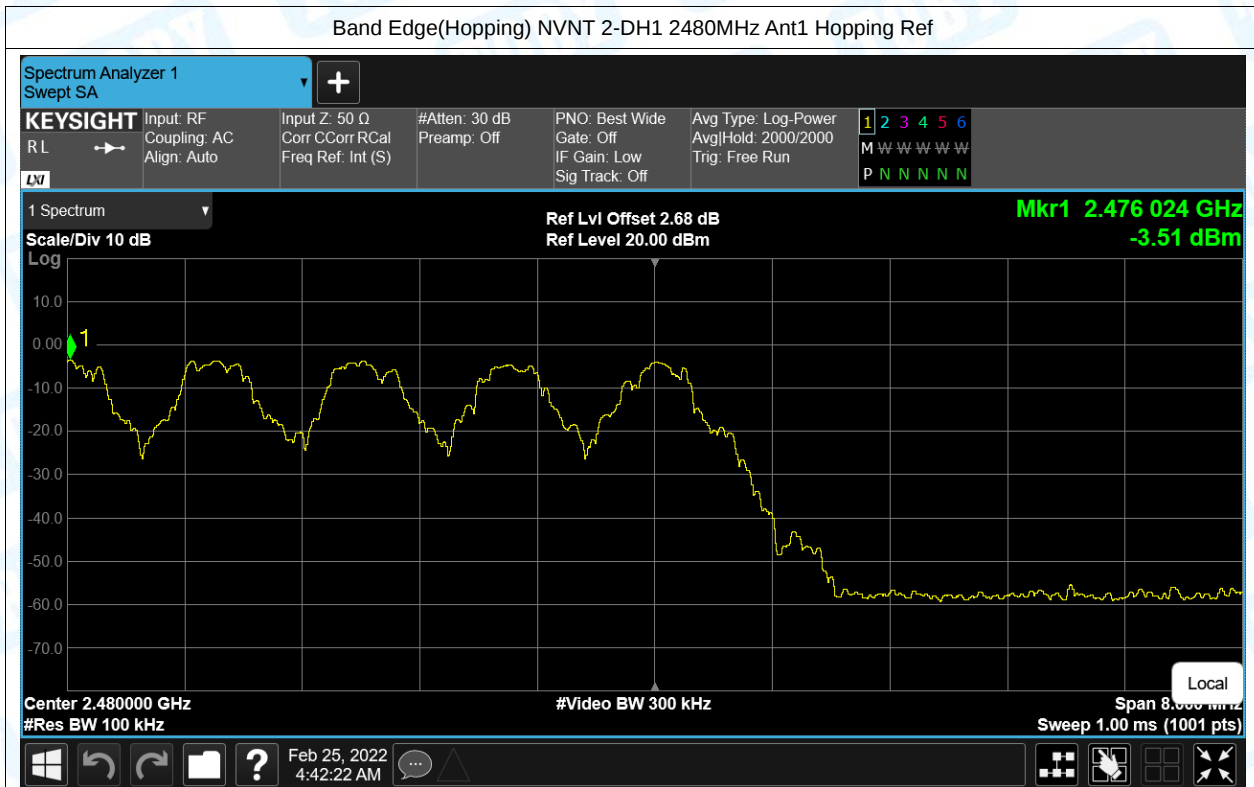


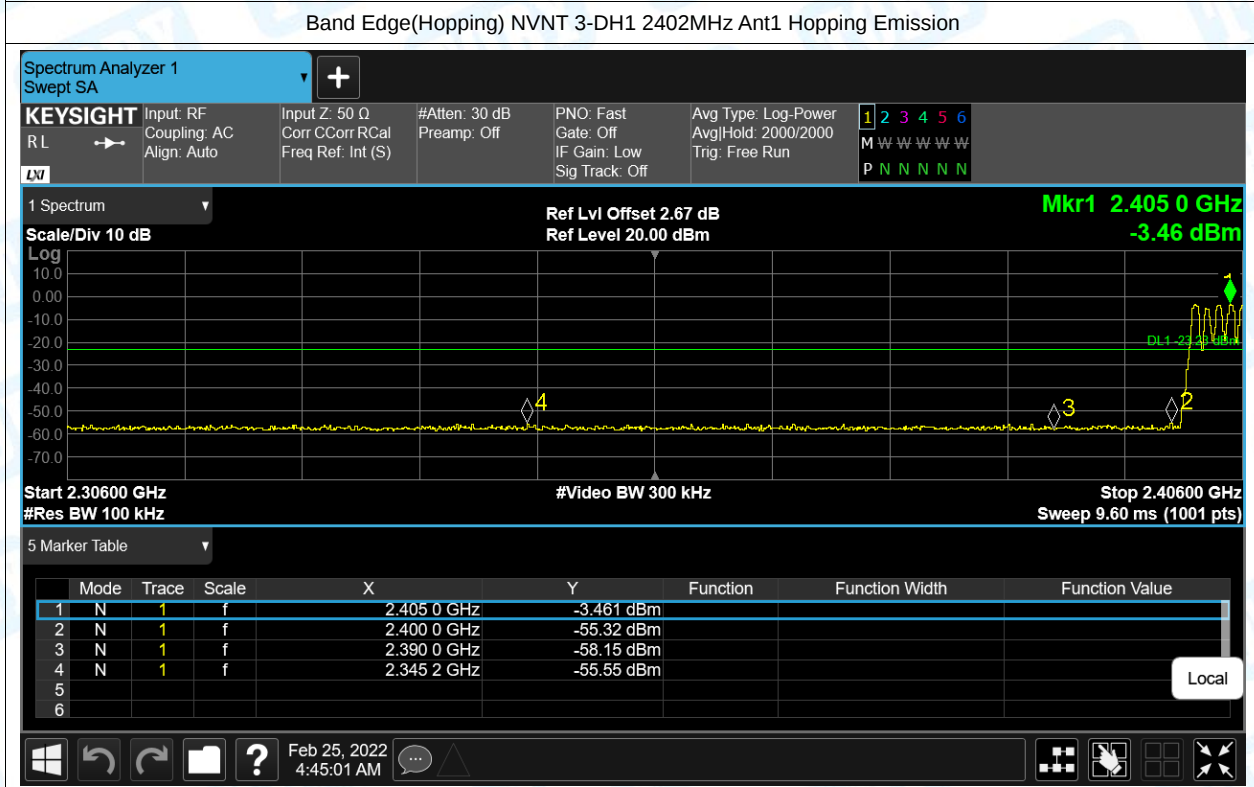
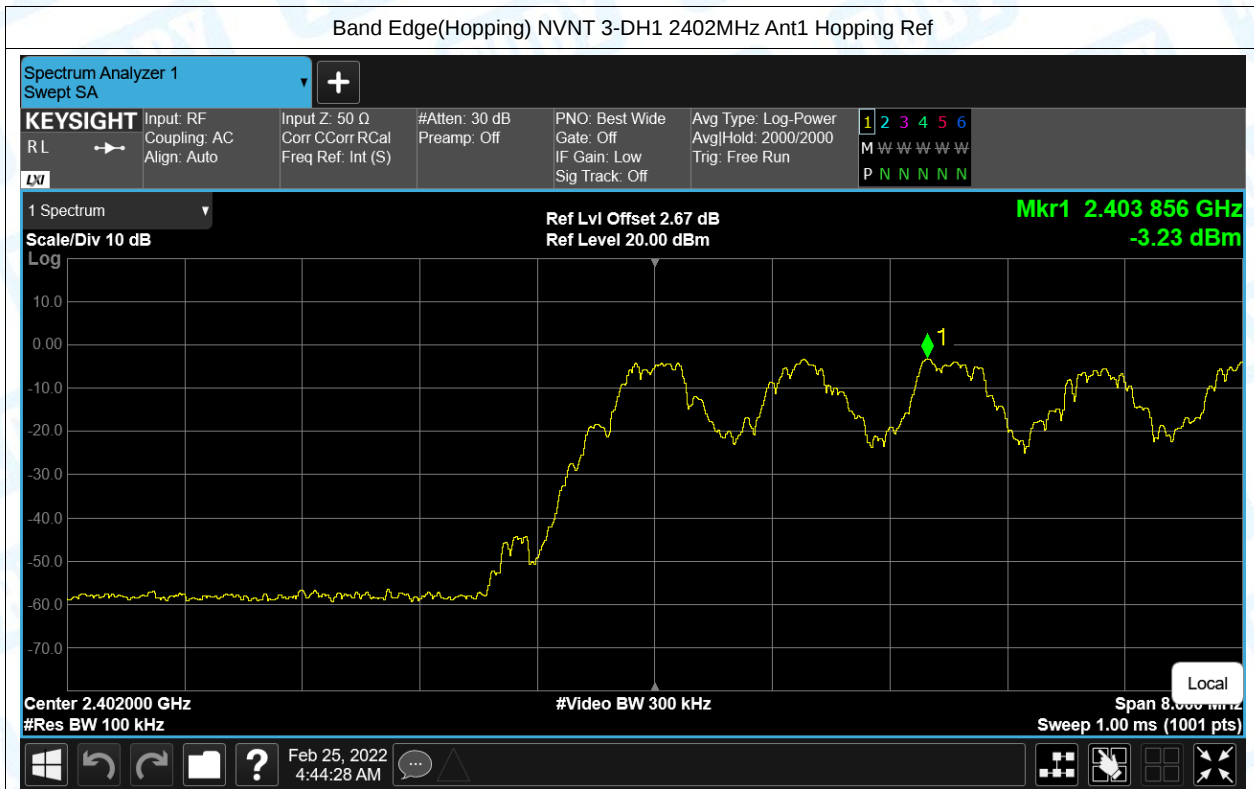
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission

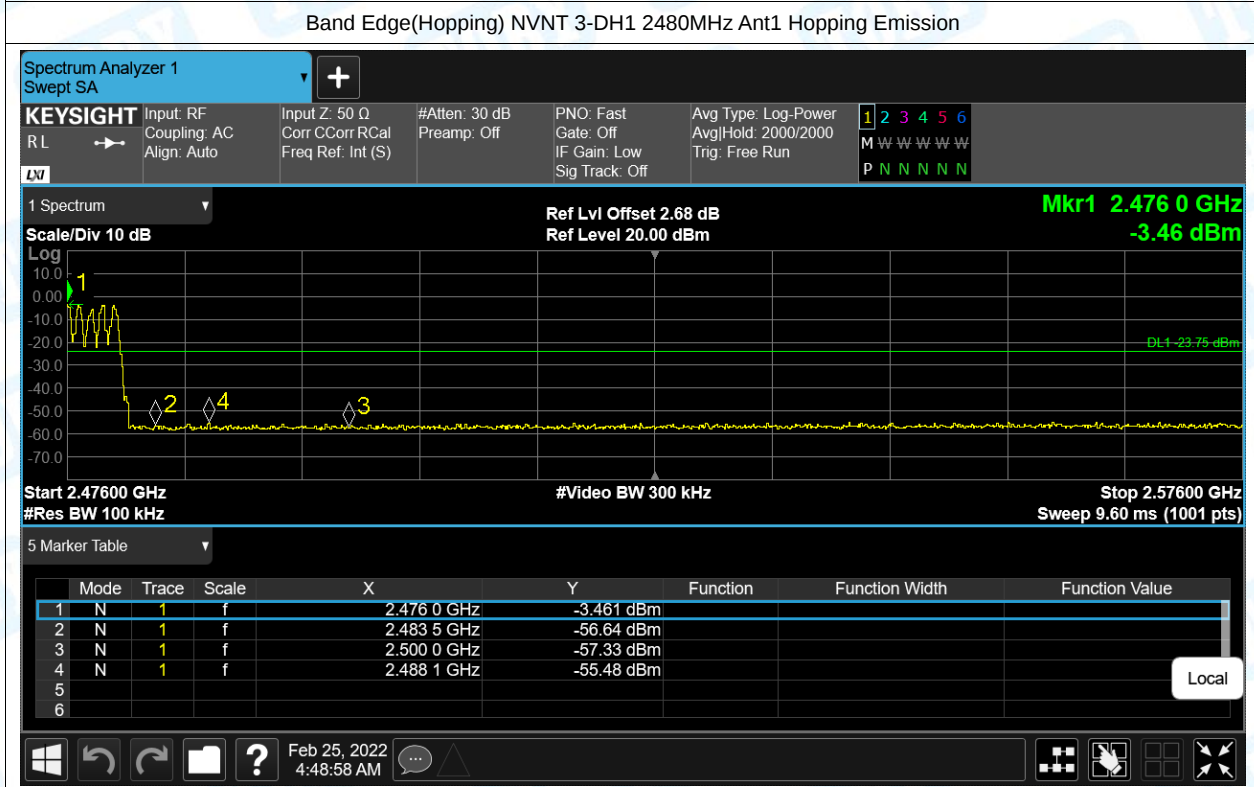
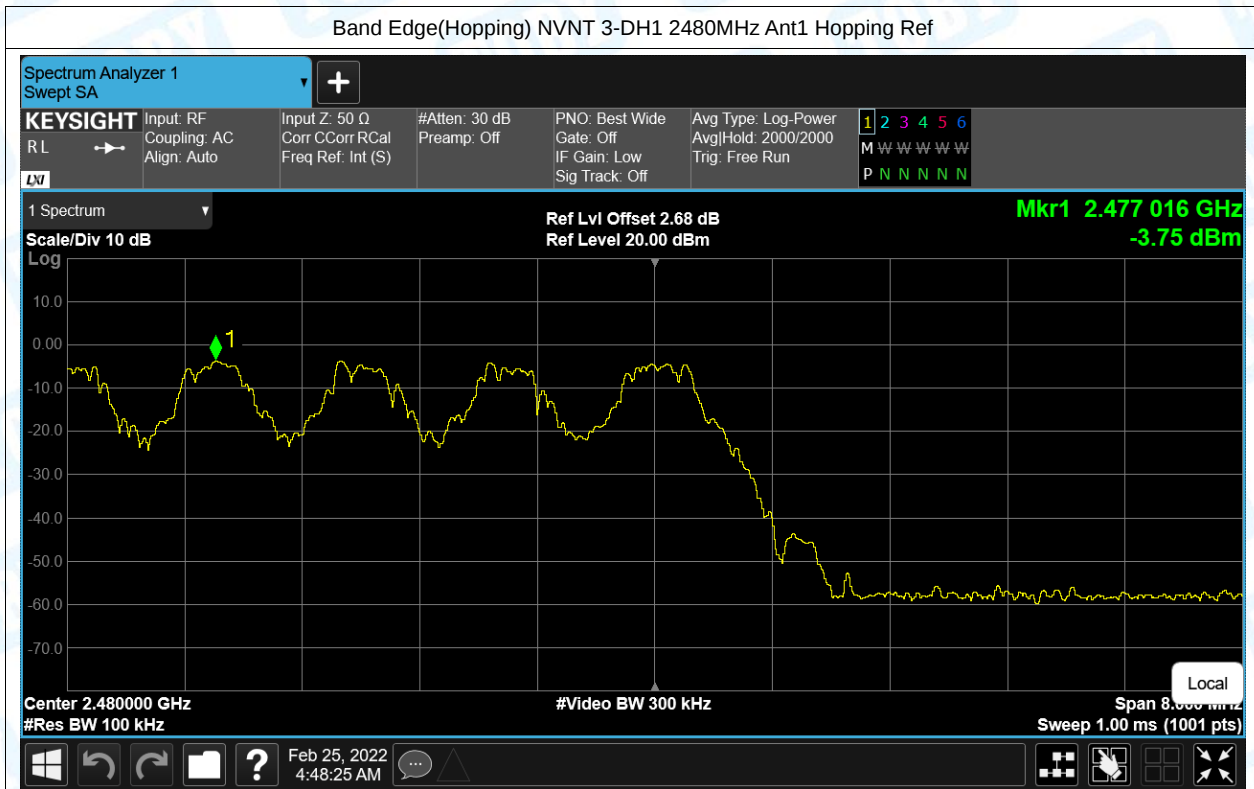










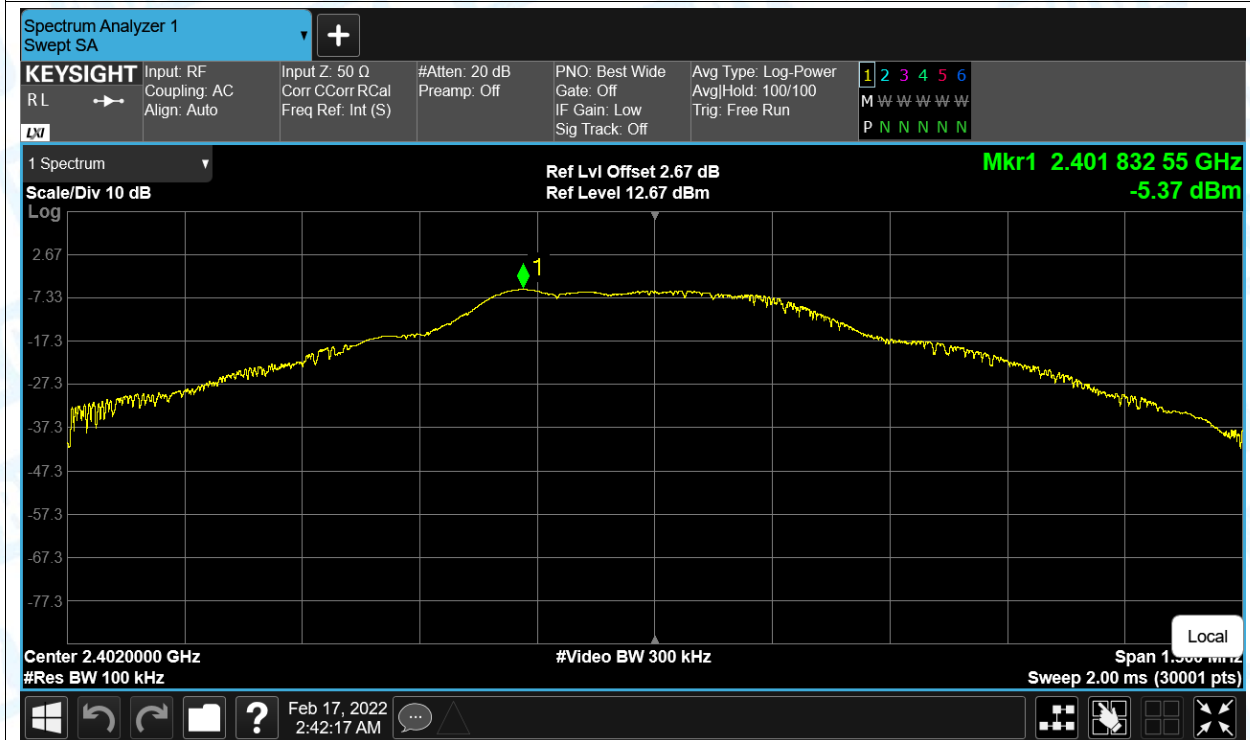


7. Conducted RF Spurious Emission

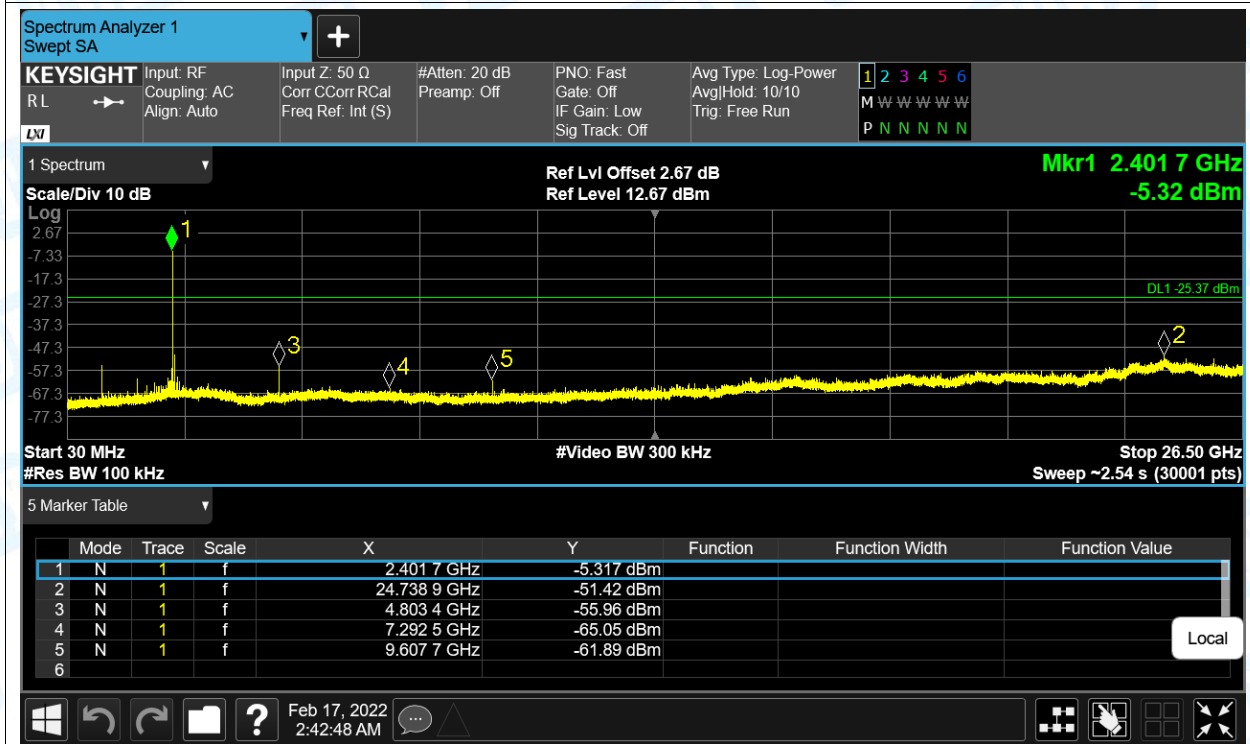
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	-46.05	-20	Pass
NVNT	1-DH1	2441	-45.77	-20	Pass
NVNT	1-DH1	2480	-46.6	-20	Pass
NVNT	2-DH1	2402	-32.72	-20	Pass
NVNT	2-DH1	2441	-45.24	-20	Pass
NVNT	2-DH1	2480	-46.67	-20	Pass
NVNT	3-DH1	2402	-45.9	-20	Pass
NVNT	3-DH1	2441	-46.27	-20	Pass
NVNT	3-DH1	2480	-46.88	-20	Pass

Test Graphs

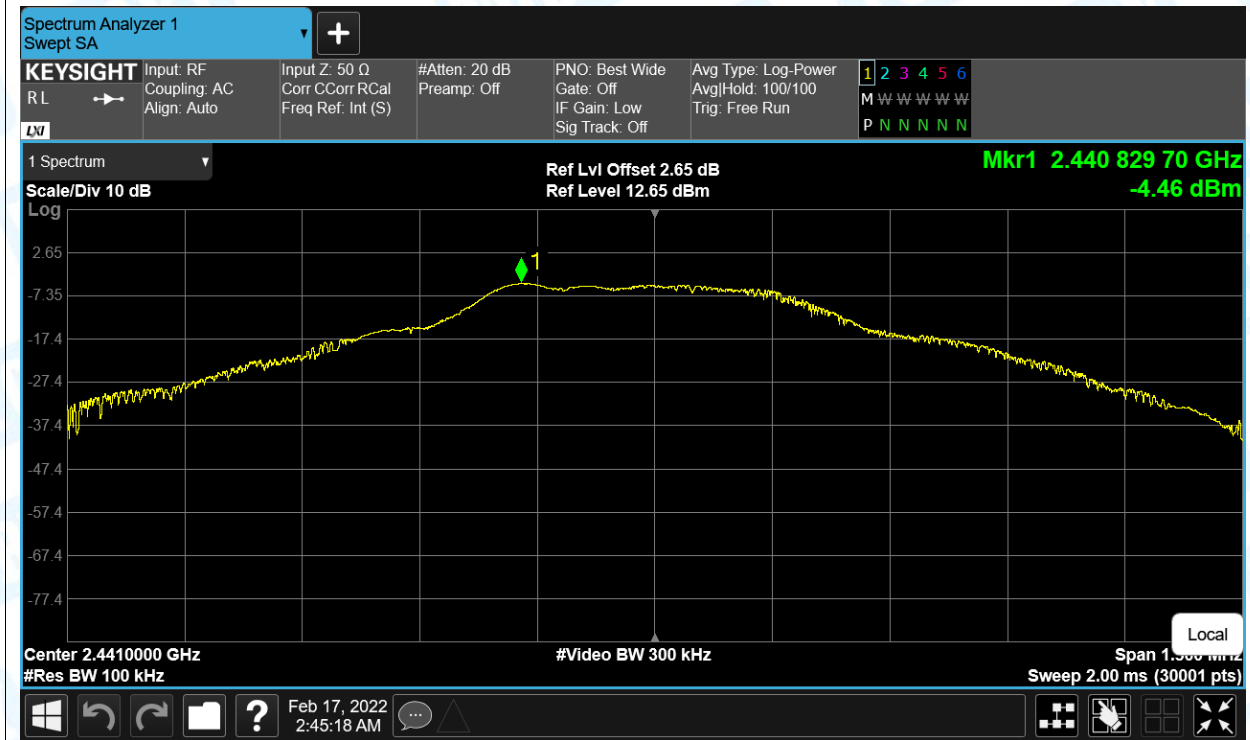
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



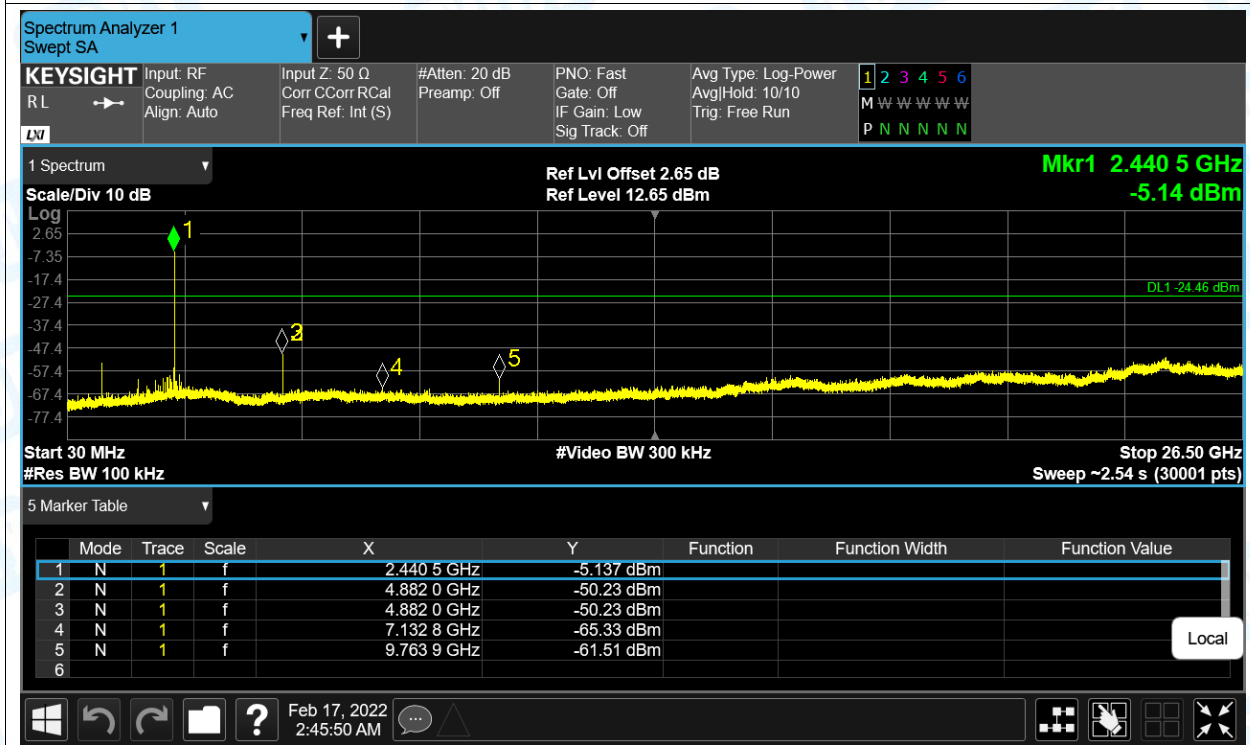
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



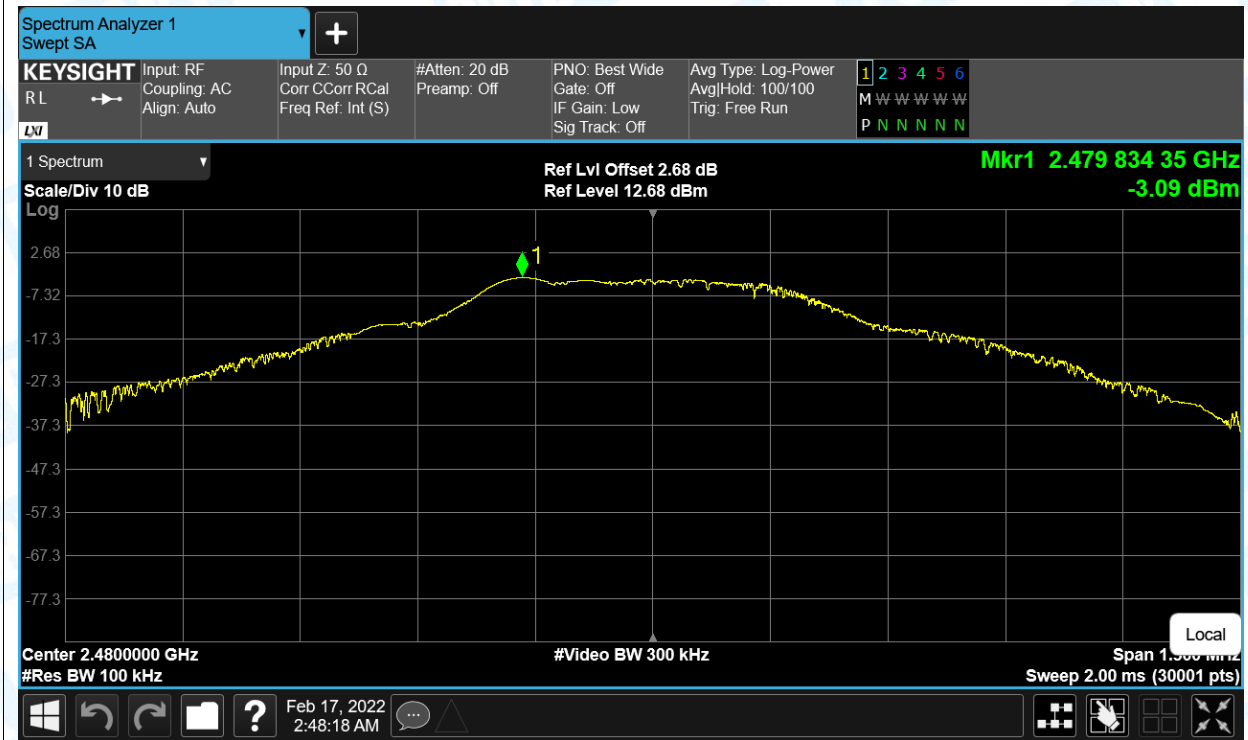
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



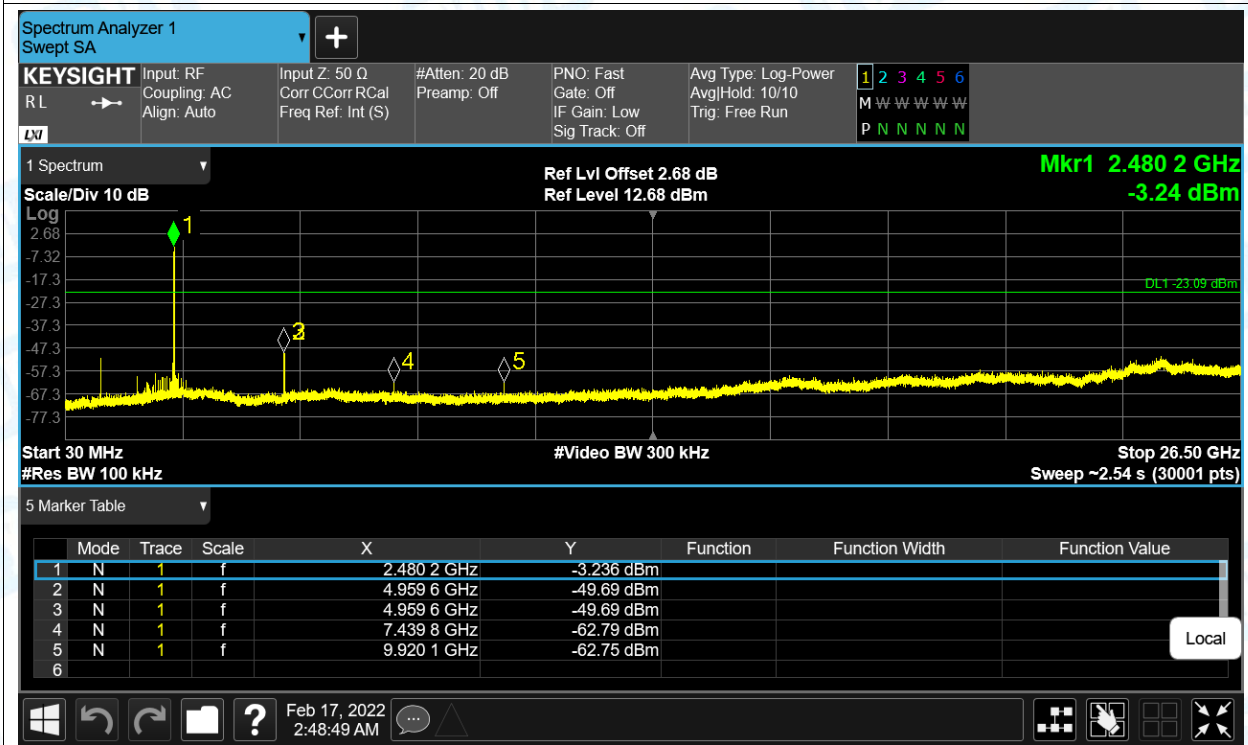
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



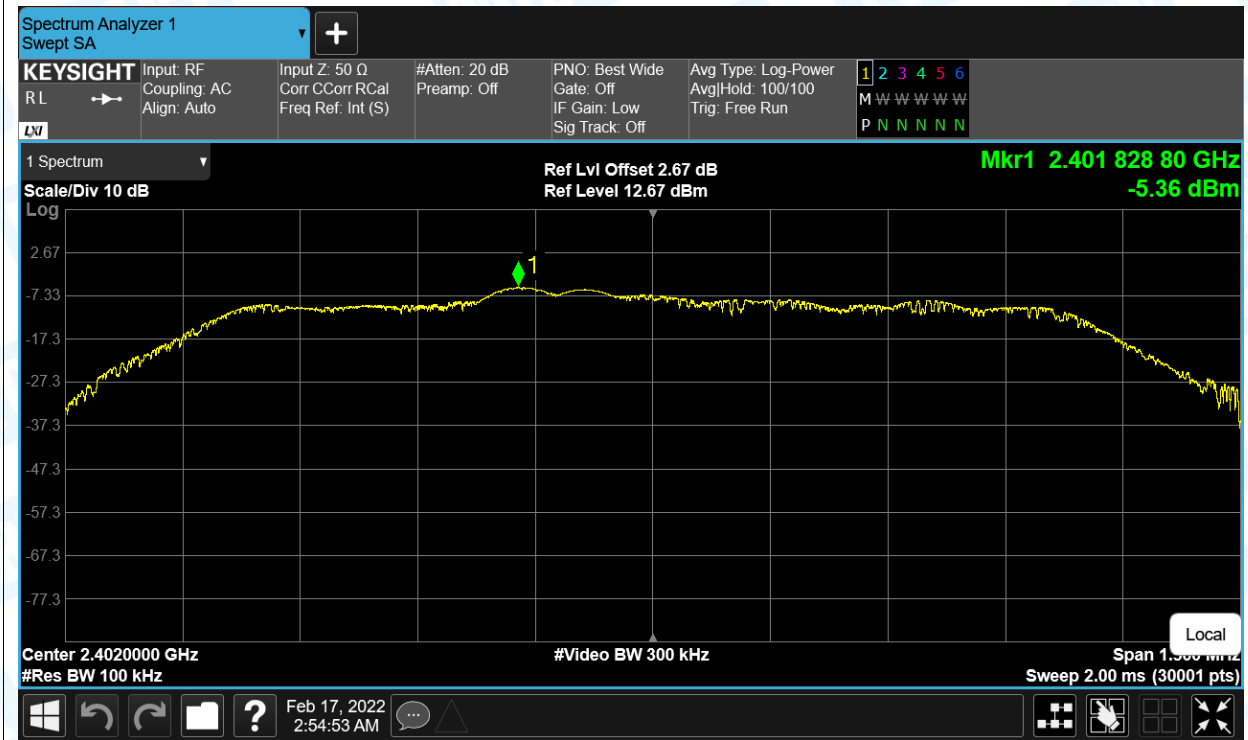
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



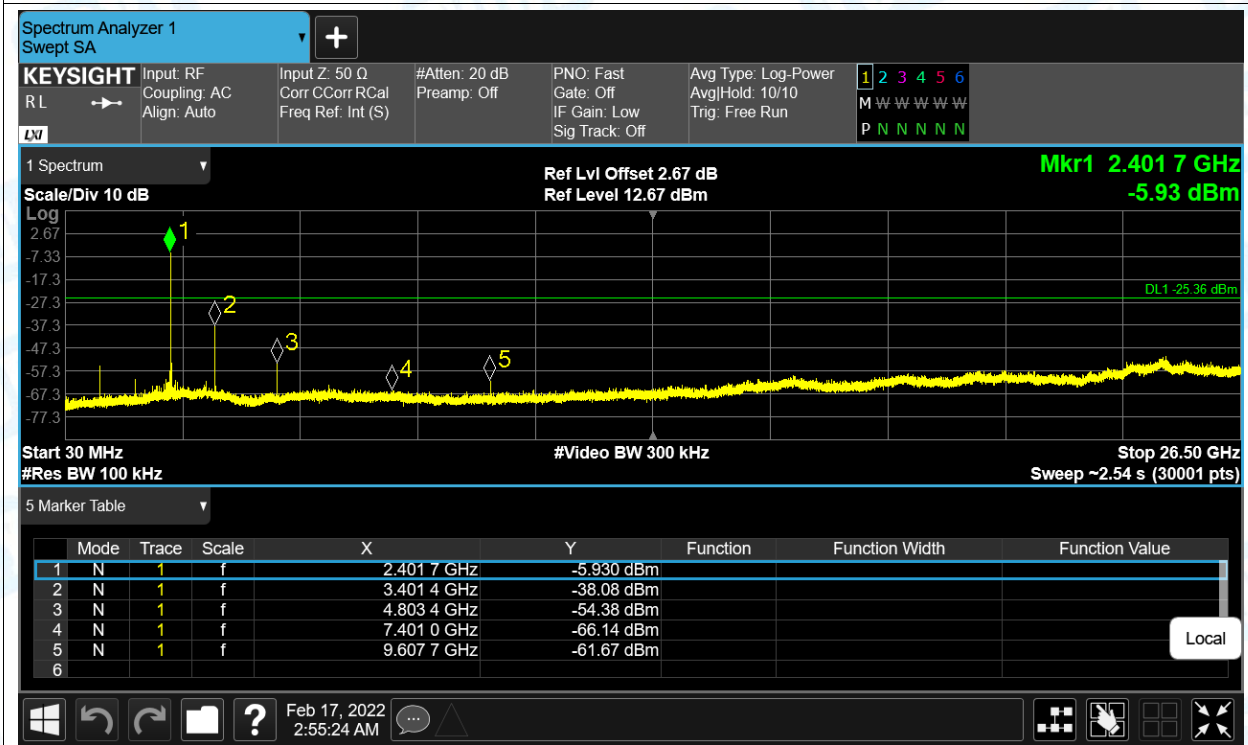
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



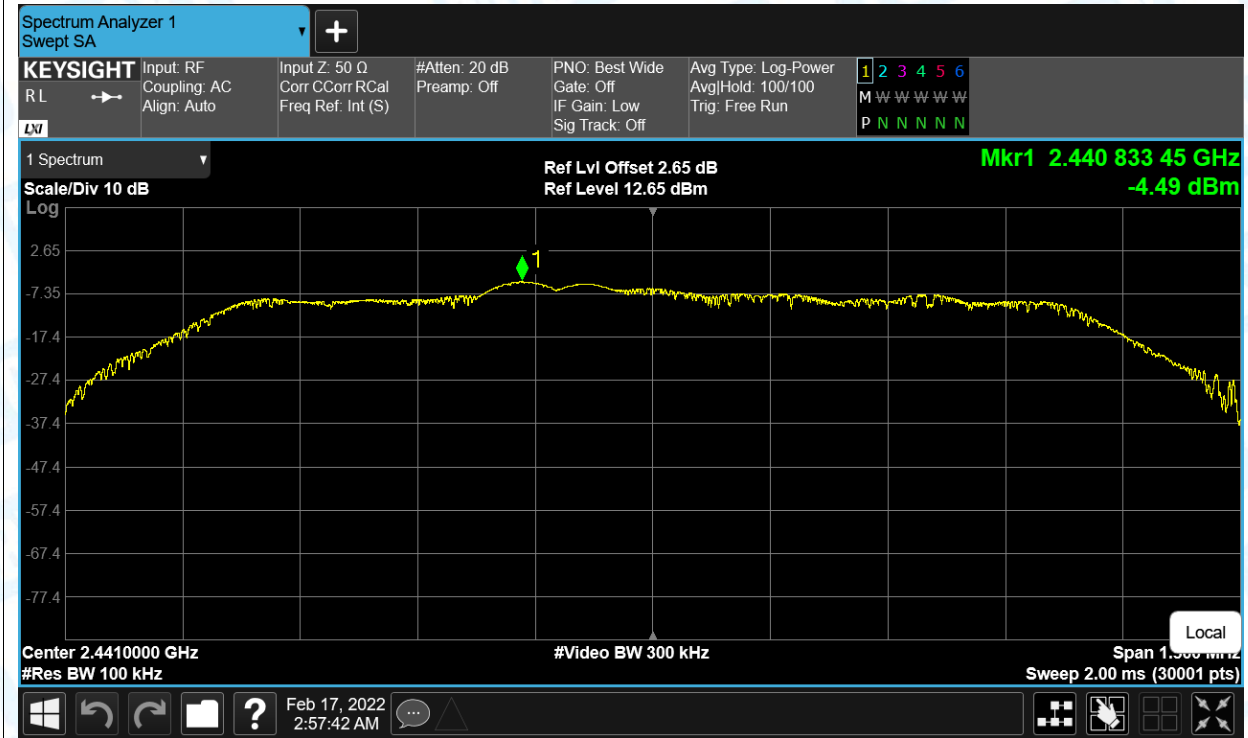
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



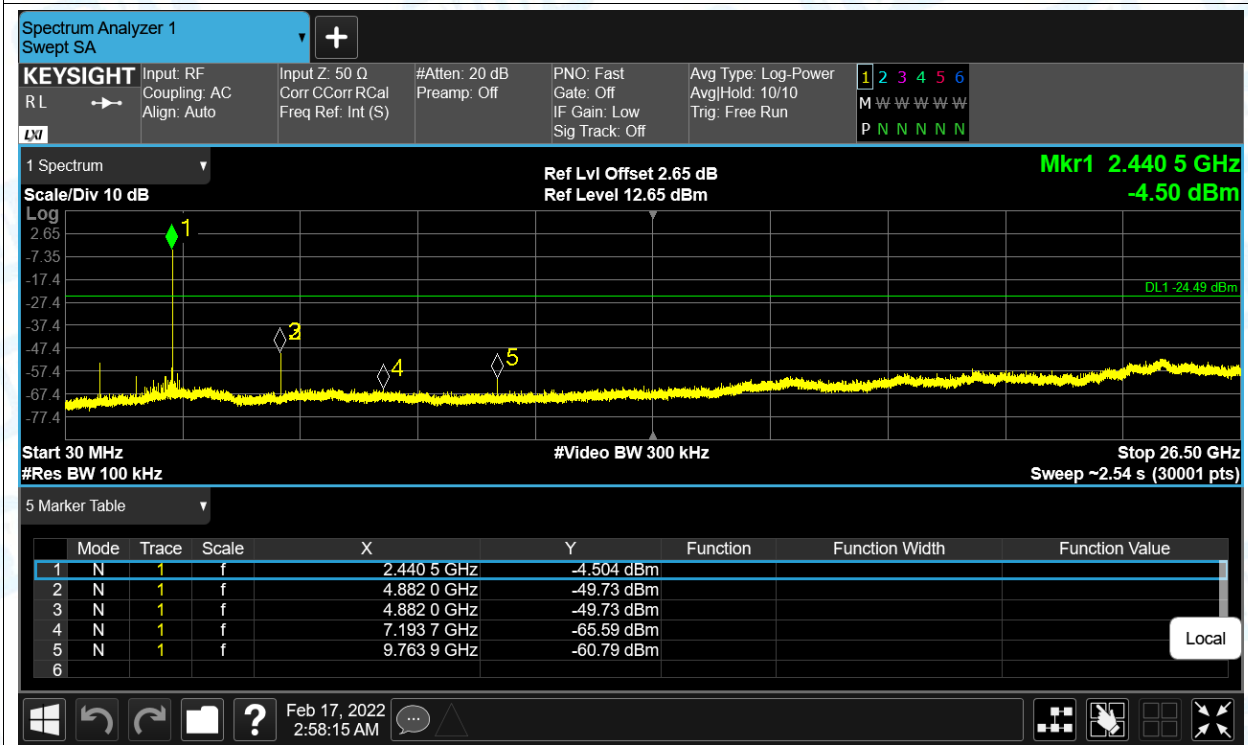
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



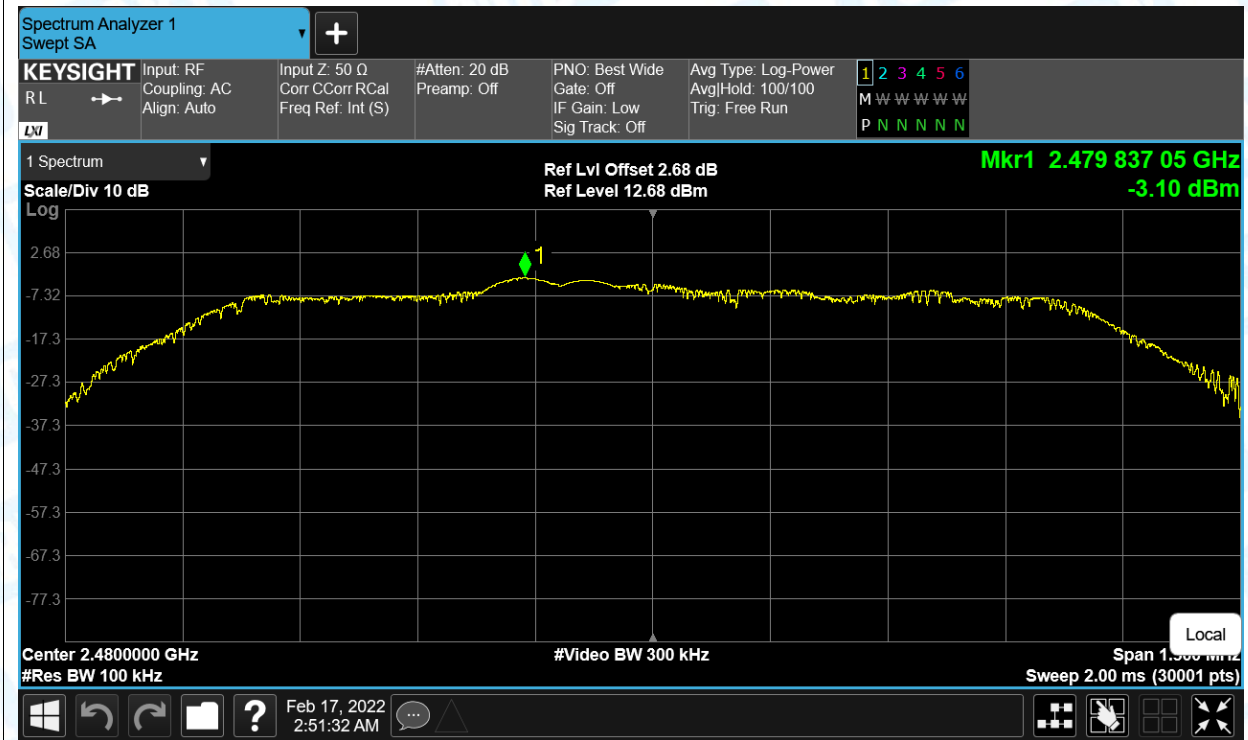
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



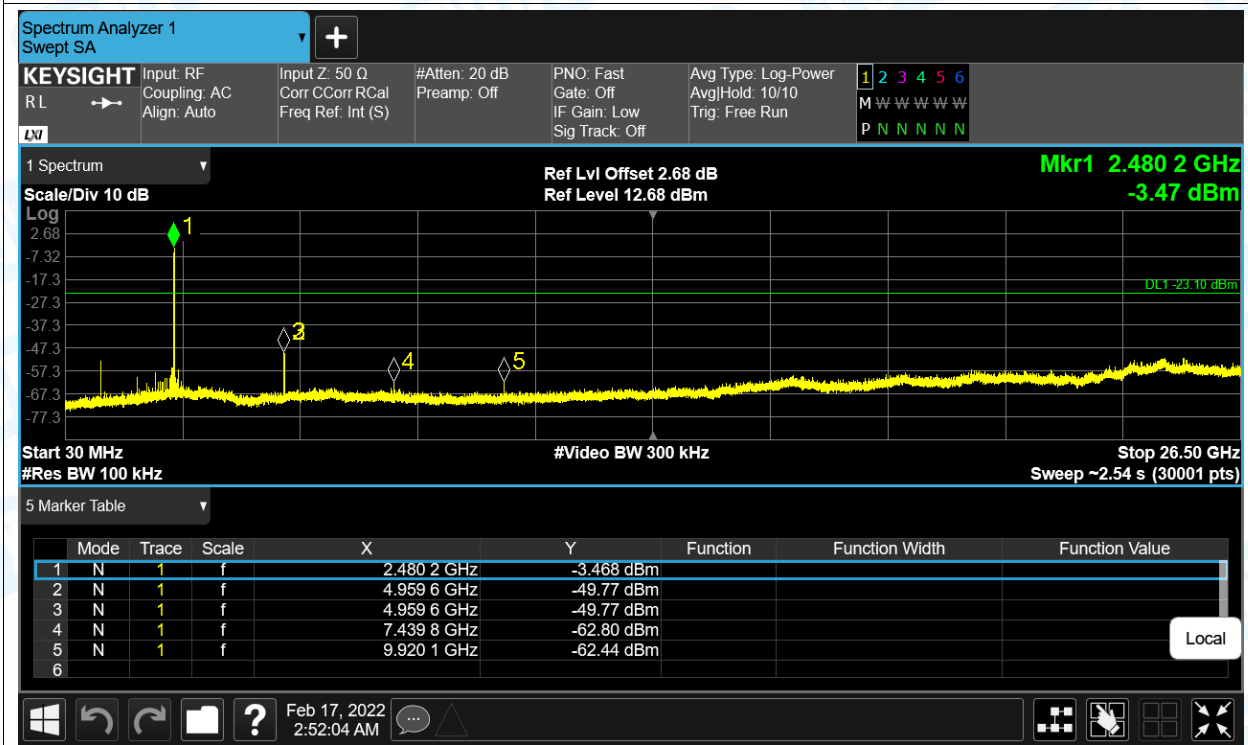
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



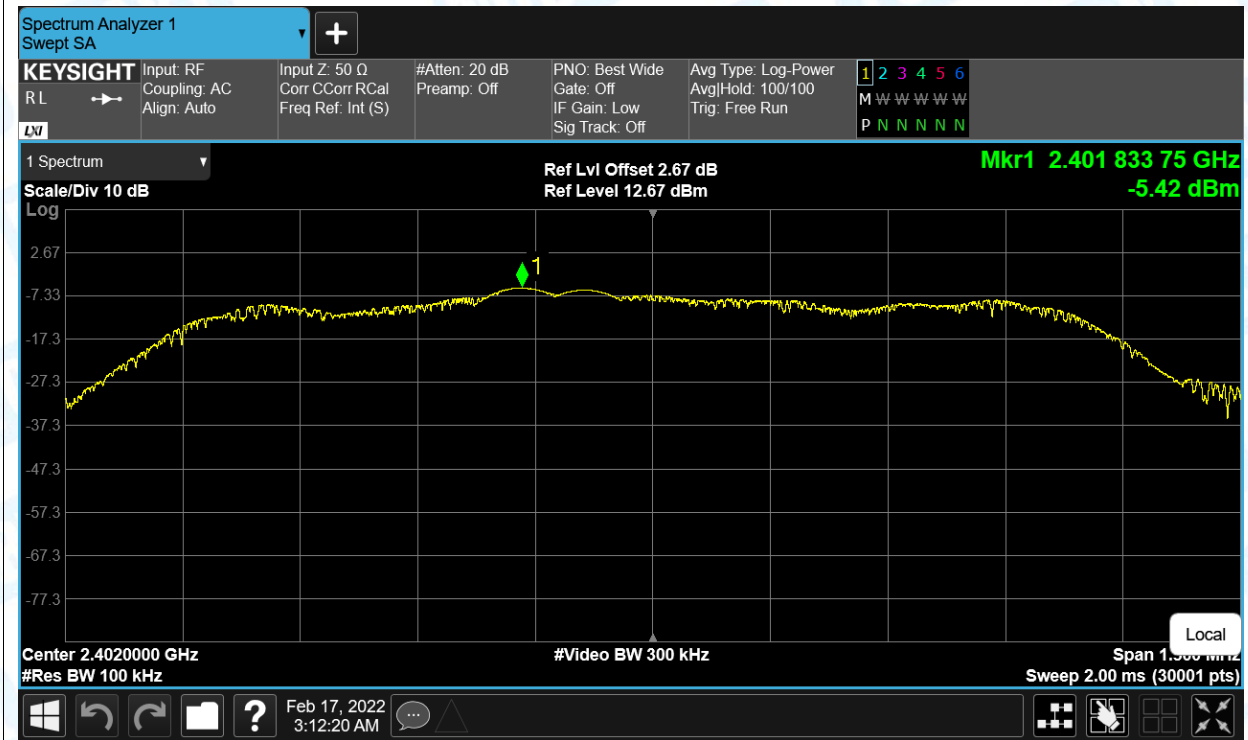
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



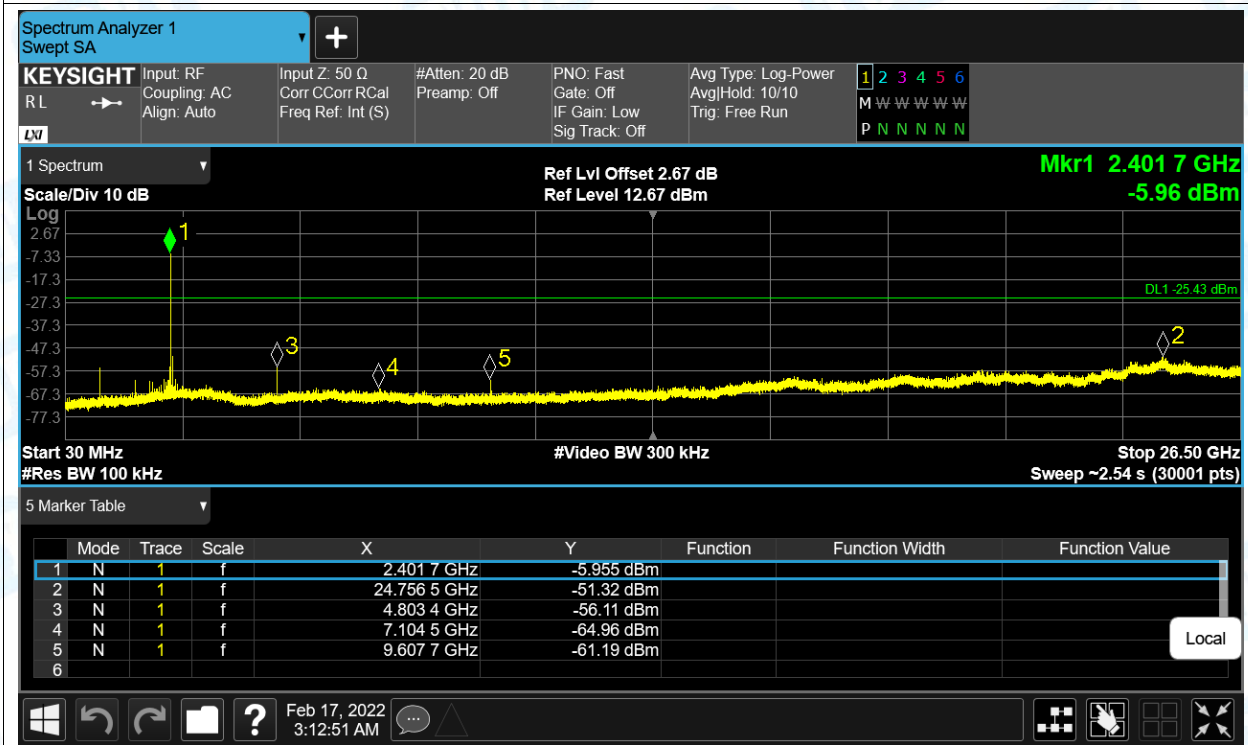
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



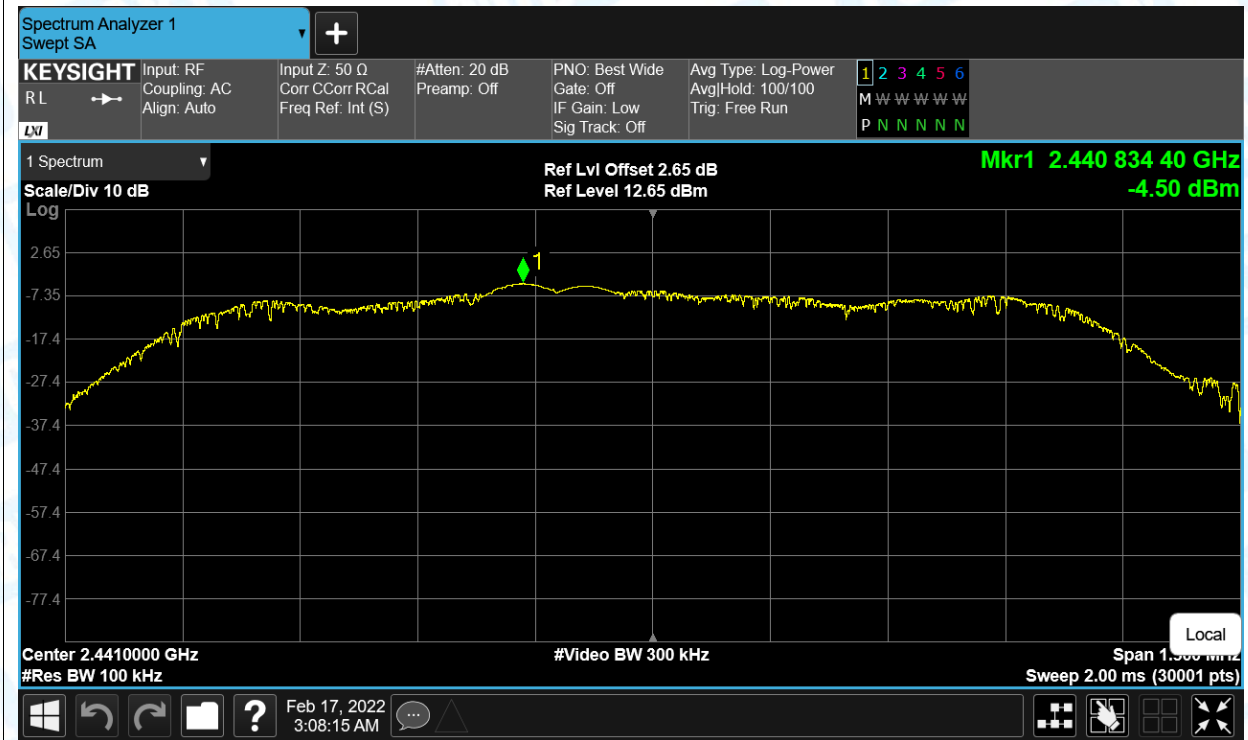
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



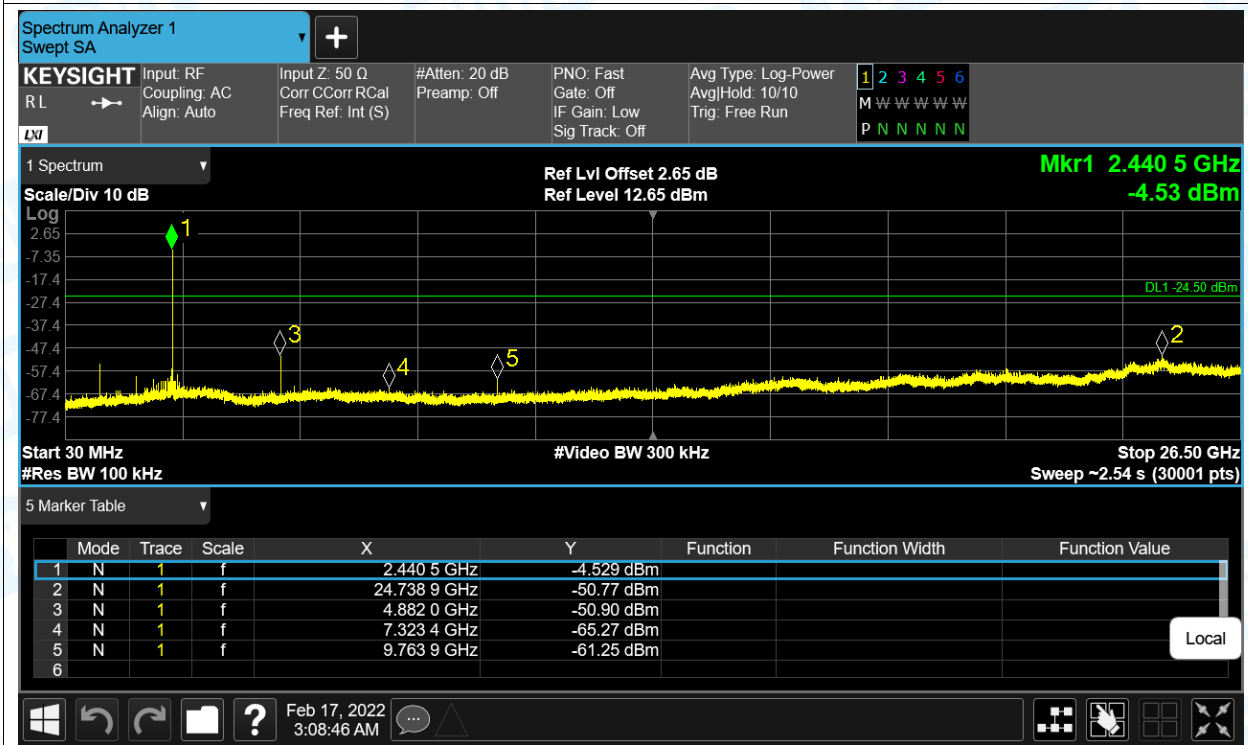
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



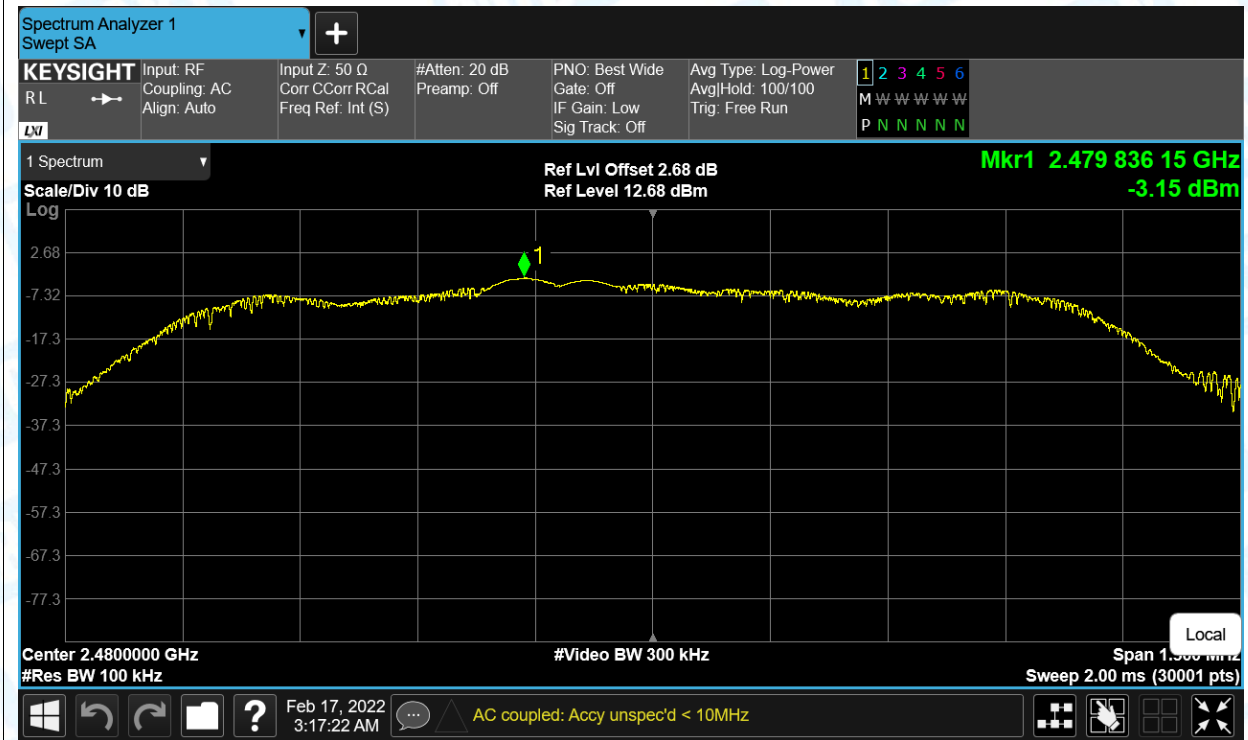
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



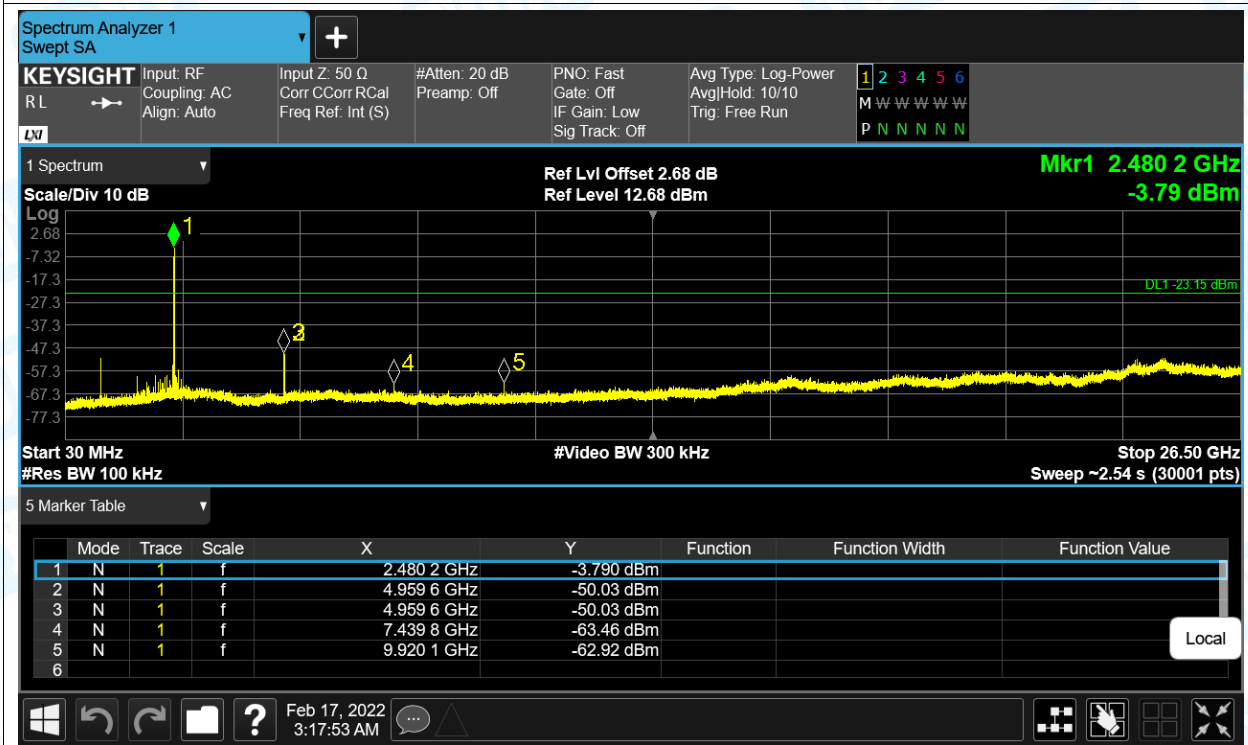
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission



8. Restrict Band

Condition	Mode	Frequency (MHz)	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	No-Hopping	2310	-49.41	2	47.85	Peak	74	Pass
NVNT	1-DH1	2402	No-Hopping	2310	-57.14	2	40.12	Average	54	Pass
NVNT	1-DH1	2402	No-Hopping	2324.688	-44.17	2	53.09	Peak	74	Pass
NVNT	1-DH1	2402	No-Hopping	2375.952	-53.77	2	43.49	Average	54	Pass
NVNT	1-DH1	2402	No-Hopping	2390	-47.97	2	49.29	Peak	74	Pass
NVNT	1-DH1	2402	No-Hopping	2390	-57.15	2	40.11	Average	54	Pass
NVNT	1-DH1	2480	No-Hopping	2483.5	-45.11	2	52.15	Peak	74	Pass
NVNT	1-DH1	2480	No-Hopping	2483.5	-56.33	2	40.93	Average	54	Pass
NVNT	1-DH1	2480	No-Hopping	2497.624	-44.21	2	53.05	Peak	74	Pass
NVNT	1-DH1	2480	No-Hopping	2484.832	-55.74	2	41.52	Average	54	Pass
NVNT	1-DH1	2480	No-Hopping	2500	-48.23	2	49.03	Peak	74	Pass
NVNT	1-DH1	2480	No-Hopping	2500	-56.95	2	40.31	Average	54	Pass
NVNT	2-DH1	2402	No-Hopping	2310	-48	2	49.26	Peak	74	Pass
NVNT	2-DH1	2402	No-Hopping	2310	-57.14	2	40.12	Average	54	Pass
NVNT	2-DH1	2402	No-Hopping	2376.72	-44.12	2	53.14	Peak	74	Pass
NVNT	2-DH1	2402	No-Hopping	2375.952	-54.08	2	43.18	Average	54	Pass
NVNT	2-DH1	2402	No-Hopping	2390	-48.63	2	48.63	Peak	74	Pass
NVNT	2-DH1	2402	No-Hopping	2390	-56.95	2	40.31	Average	54	Pass
NVNT	2-DH1	2480	No-Hopping	2483.5	-45.15	2	52.11	Peak	74	Pass
NVNT	2-DH1	2480	No-Hopping	2483.5	-56.29	2	40.97	Average	54	Pass
NVNT	2-DH1	2480	No-Hopping	2484.448	-42.32	2	54.94	Peak	74	Pass
NVNT	2-DH1	2480	No-Hopping	2484.664	-55.72	2	41.54	Average	54	Pass
NVNT	2-DH1	2480	No-Hopping	2500	-47.99	2	49.27	Peak	74	Pass
NVNT	2-DH1	2480	No-Hopping	2500	-56.83	2	40.43	Average	54	Pass
NVNT	3-DH1	2402	No-Hopping	2310	-47.58	2	49.68	Peak	74	Pass
NVNT	3-DH1	2402	No-Hopping	2310	-57.19	2	40.07	Average	54	Pass
NVNT	3-DH1	2402	No-Hopping	2376.432	-44.01	2	53.25	Peak	74	Pass
NVNT	3-DH1	2402	No-Hopping	2375.856	-53.89	2	43.37	Average	54	Pass
NVNT	3-DH1	2402	No-Hopping	2390	-47.63	2	49.63	Peak	74	Pass
NVNT	3-DH1	2402	No-Hopping	2390	-57.13	2	40.13	Average	54	Pass
NVNT	3-DH1	2480	No-Hopping	2483.5	-44.6	2	52.66	Peak	74	Pass
NVNT	3-DH1	2480	No-Hopping	2483.5	-56.33	2	40.93	Average	54	Pass
NVNT	3-DH1	2480	No-Hopping	2484.904	-43.85	2	53.41	Peak	74	Pass
NVNT	3-DH1	2480	No-Hopping	2484.64	-55.77	2	41.49	Average	54	Pass
NVNT	3-DH1	2480	No-Hopping	2500	-46.68	2	50.58	Peak	74	Pass
NVNT	3-DH1	2480	No-Hopping	2500	-56.99	2	40.27	Average	54	Pass