

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

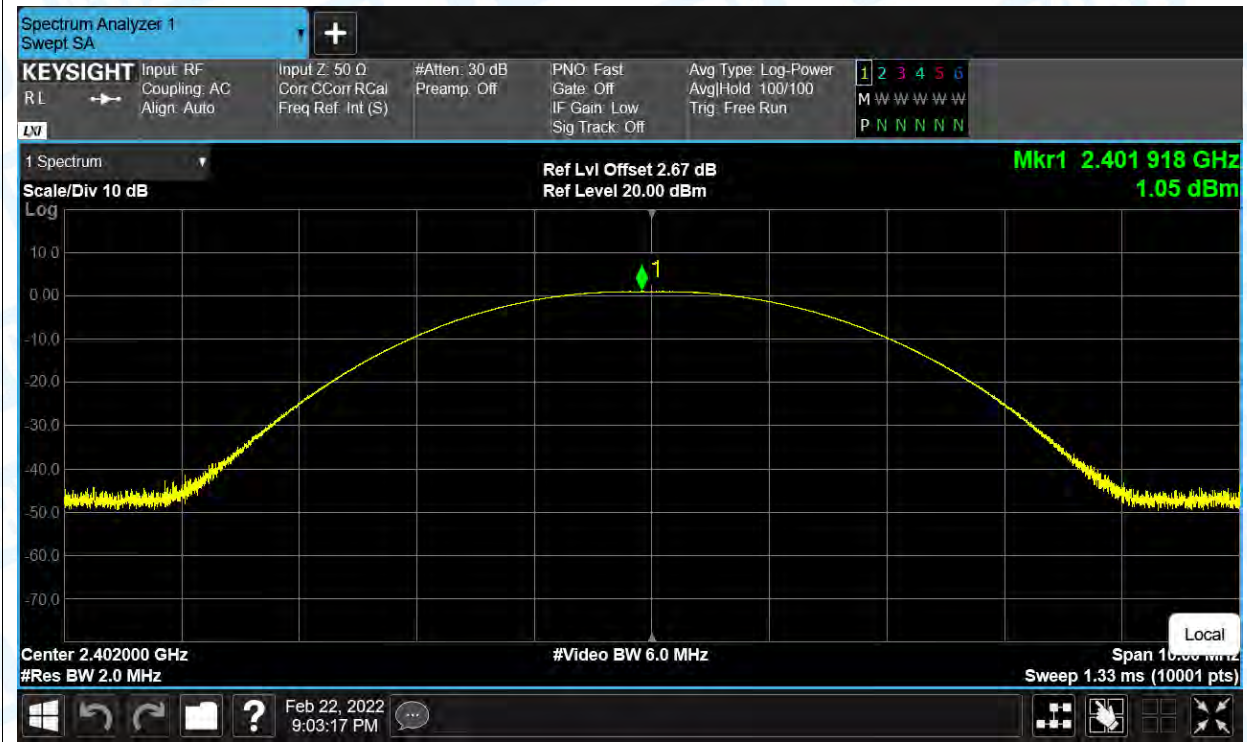
General Description of EUT	
Product Name:	Wireless Headphone
Test Model:	ANC-02Pro
Sample ID:	202201-0243-1-2#
Environmental Conditions	
Temperature:	24°C
Relative Humidity:	50%
Test Voltage:	DC3.7V
Test Engineer:	Hejingchang
Note: For a more detailed features description, please refer to the report TBR-C-202201-0243-1.	

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	1.05	21	Pass
NVNT	1-DH1	2441	Ant1	1.26	21	Pass
NVNT	1-DH1	2480	Ant1	0.68	21	Pass
NVNT	2-DH1	2402	Ant1	5.20	21	Pass
NVNT	2-DH1	2441	Ant1	5.75	21	Pass
NVNT	2-DH1	2480	Ant1	5.31	21	Pass
NVNT	3-DH1	2402	Ant1	5.83	21	Pass
NVNT	3-DH1	2441	Ant1	6.42	21	Pass
NVNT	3-DH1	2480	Ant1	5.98	21	Pass

Test Graphs

Power NVNT 1-DH1 2402MHz Ant1

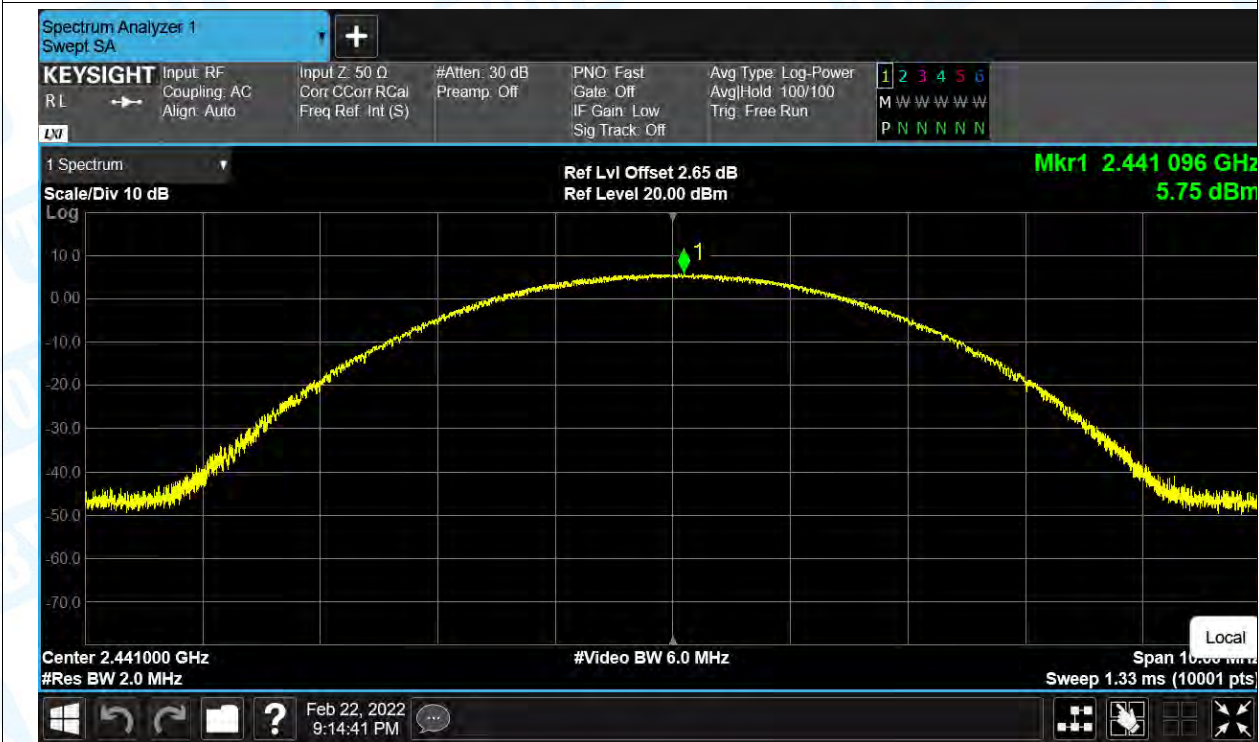


Power NVNT 1-DH1 2441MHz Ant1

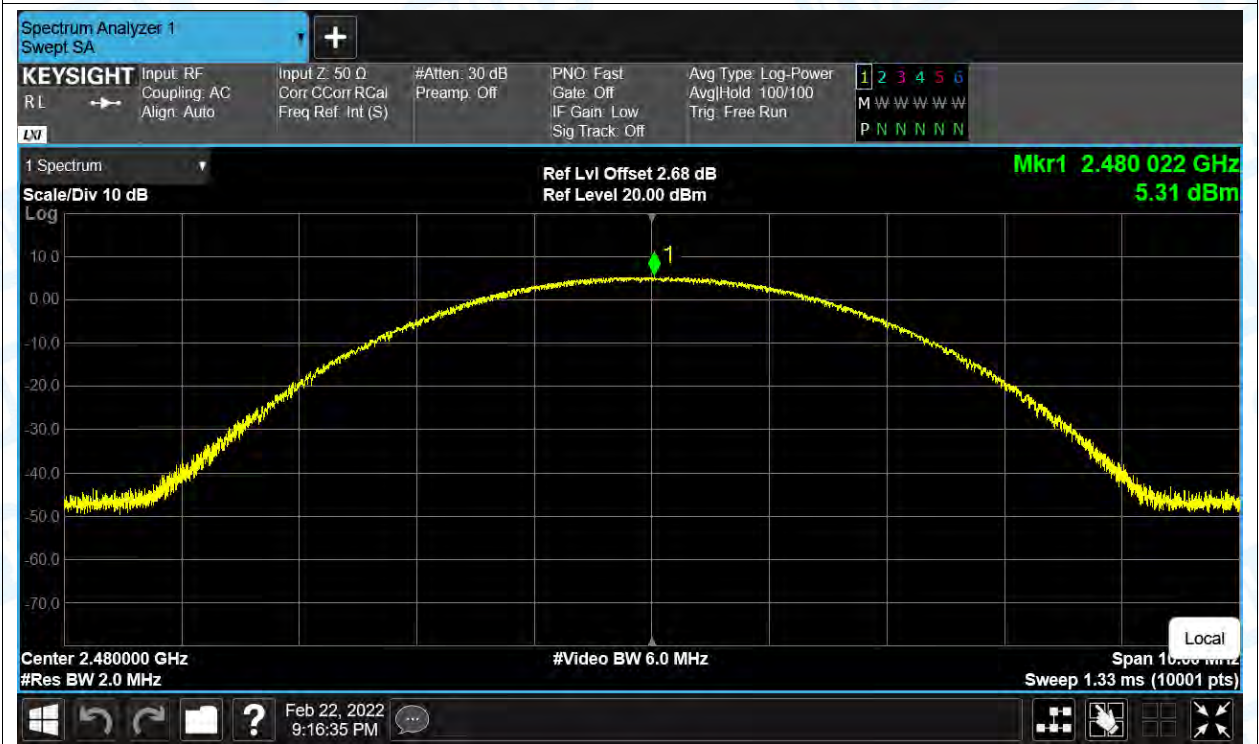


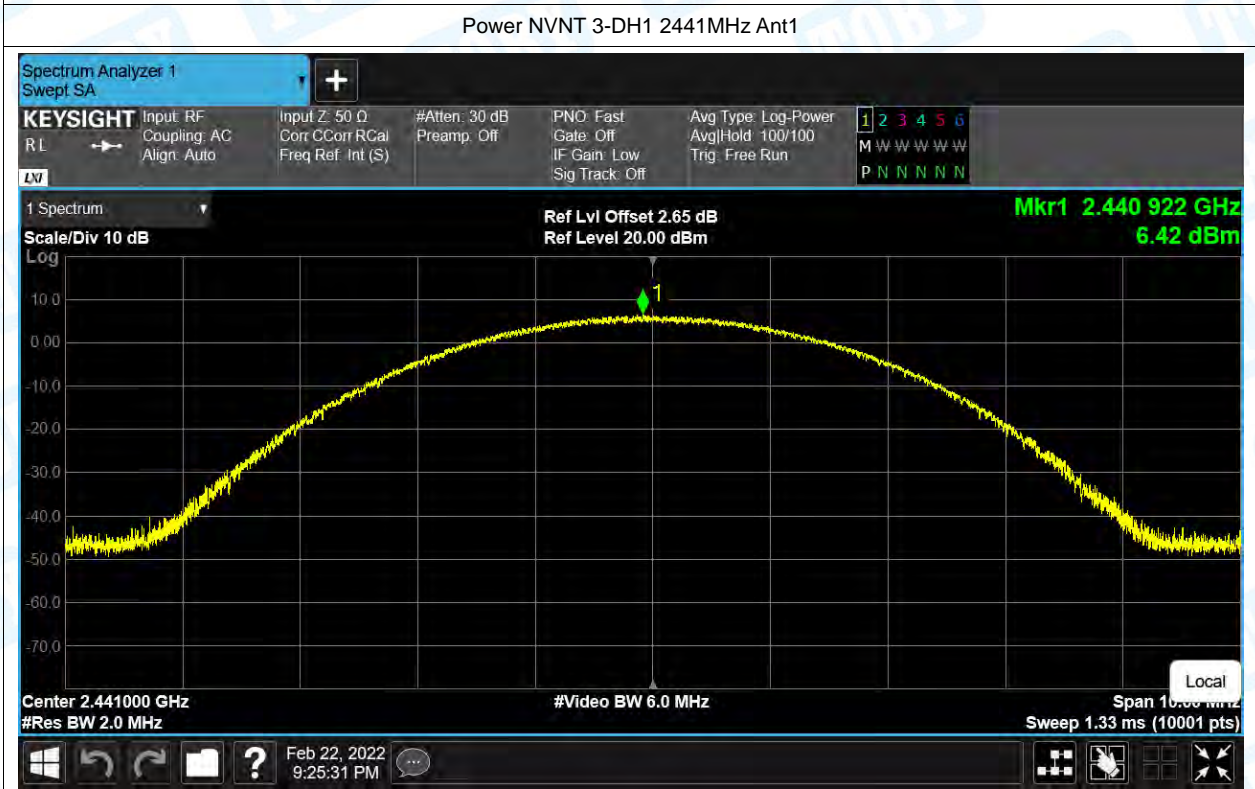


Power NVNT 2-DH1 2441MHz Ant1



Power NVNT 2-DH1 2480MHz Ant1







-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.932	0	Pass
NVNT	1-DH1	2441	Ant1	0.930	0	Pass
NVNT	1-DH1	2480	Ant1	0.882	0	Pass
NVNT	2-DH1	2402	Ant1	1.259	0	Pass
NVNT	2-DH1	2441	Ant1	1.230	0	Pass
NVNT	2-DH1	2480	Ant1	1.244	0	Pass
NVNT	3-DH1	2402	Ant1	1.212	0	Pass
NVNT	3-DH1	2441	Ant1	1.222	0	Pass
NVNT	3-DH1	2480	Ant1	1.215	0	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



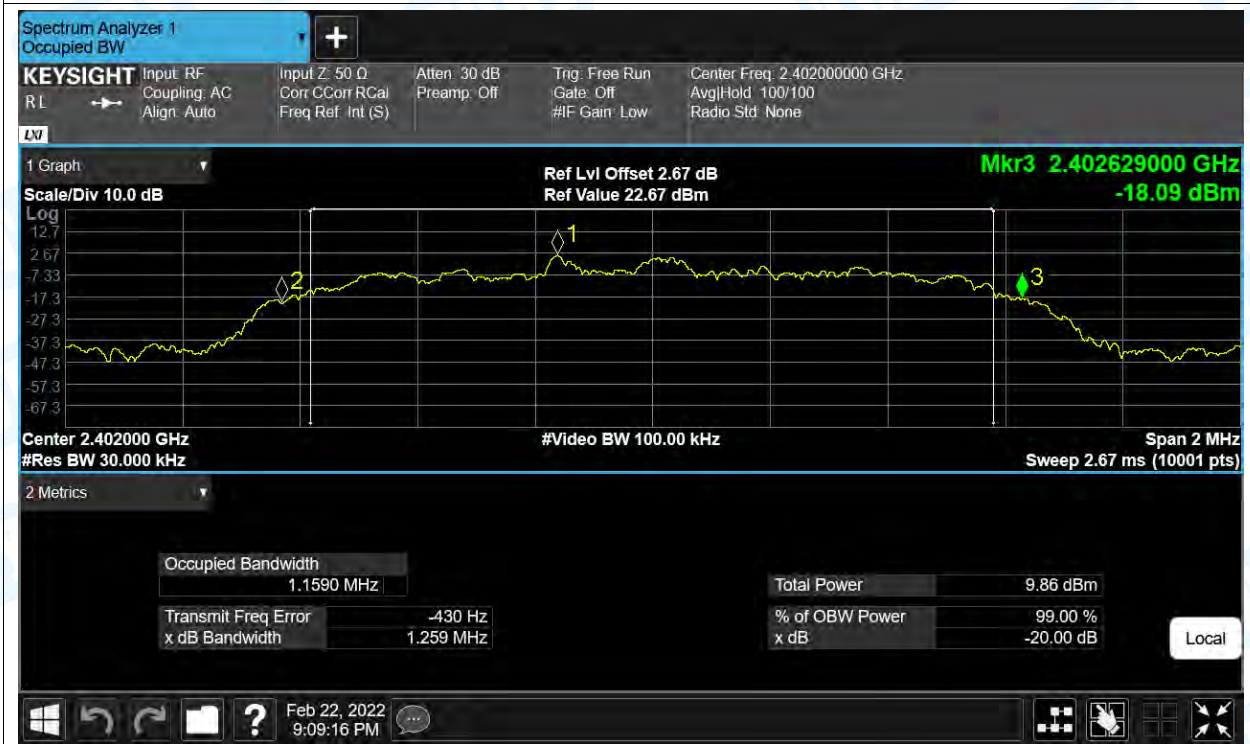
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



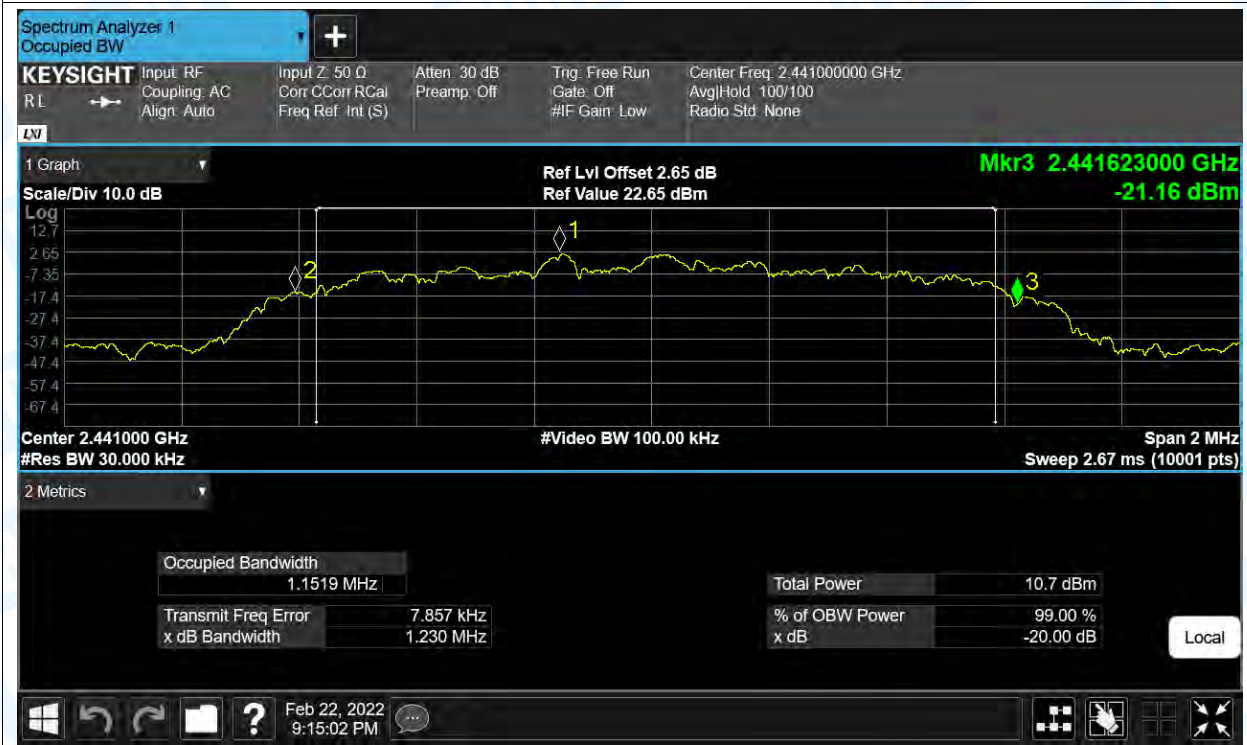
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

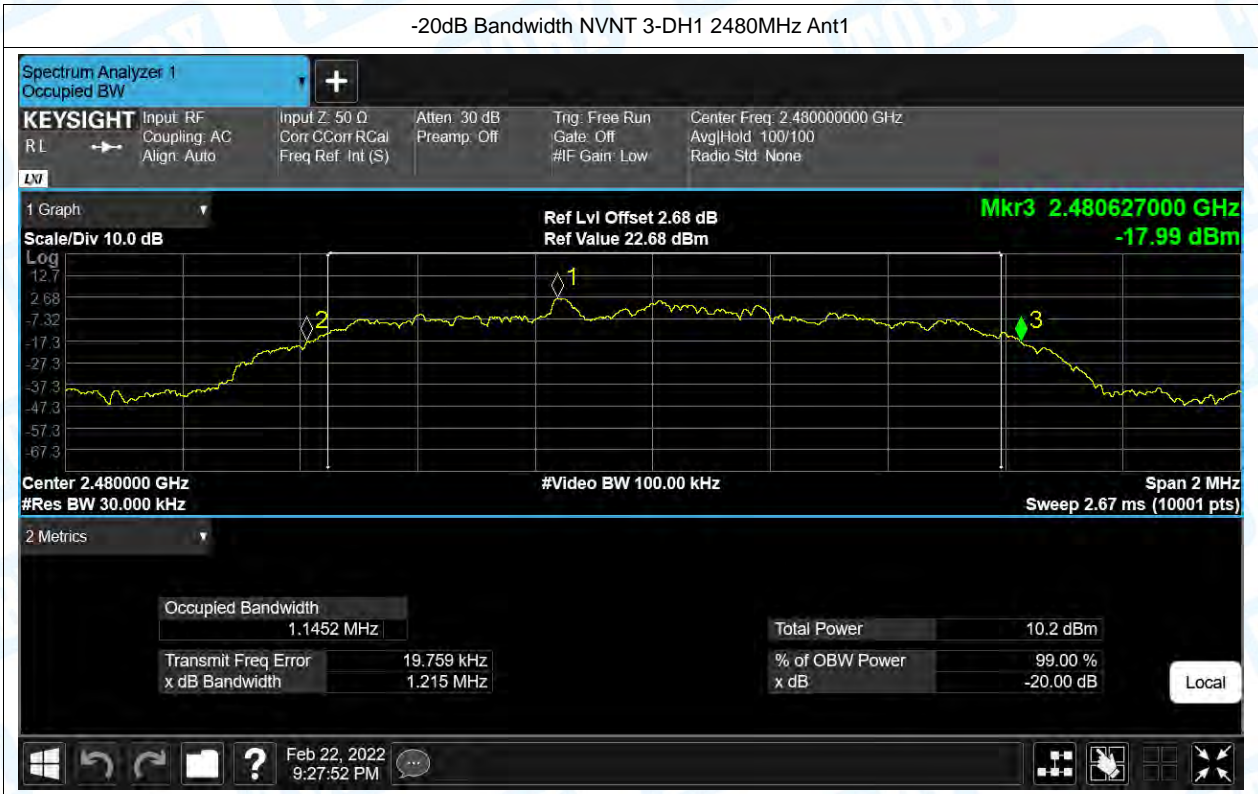


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



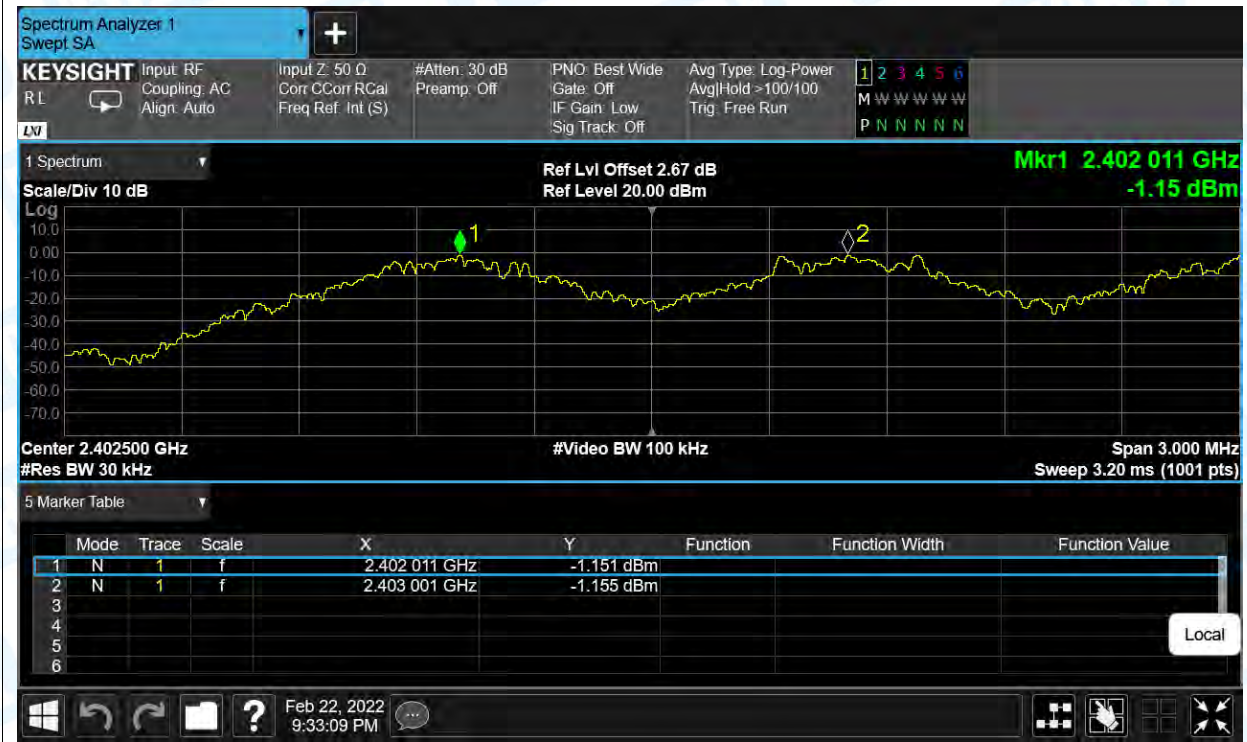


Carrier Frequencies Separation

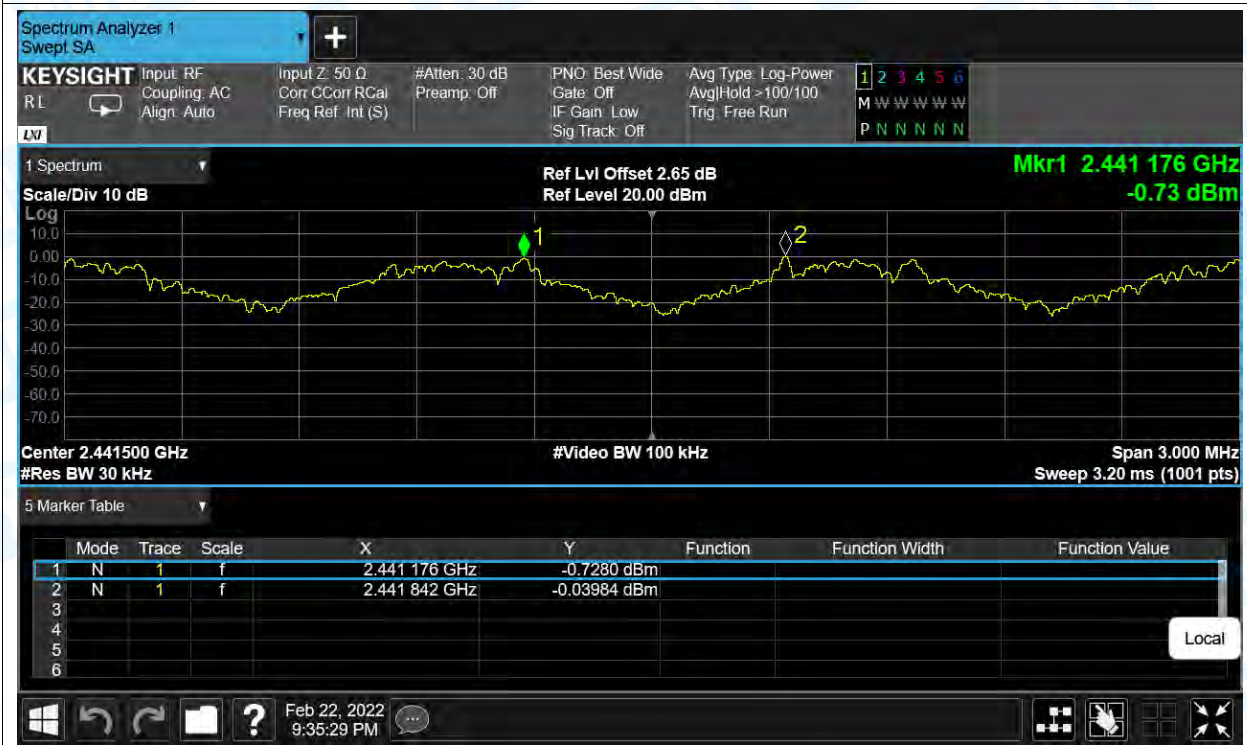
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2402.011	2403.001	0.99	0.62	Pass
NVNT	1-DH1	Ant1	2441.176	2441.842	0.666	0.62	Pass
NVNT	1-DH1	Ant1	2479.02	2479.842	0.822	0.587	Pass
NVNT	2-DH1	Ant1	2401.834	2402.83	0.996	0.84	Pass
NVNT	2-DH1	Ant1	2440.84	2442.157	1.317	0.82	Pass
NVNT	2-DH1	Ant1	2479.005	2479.995	0.99	0.827	Pass
NVNT	3-DH1	Ant1	2401.837	2402.959	1.122	0.807	Pass
NVNT	3-DH1	Ant1	2440.996	2441.995	0.999	0.813	Pass
NVNT	3-DH1	Ant1	2478.843	2479.998	1.155	0.813	Pass

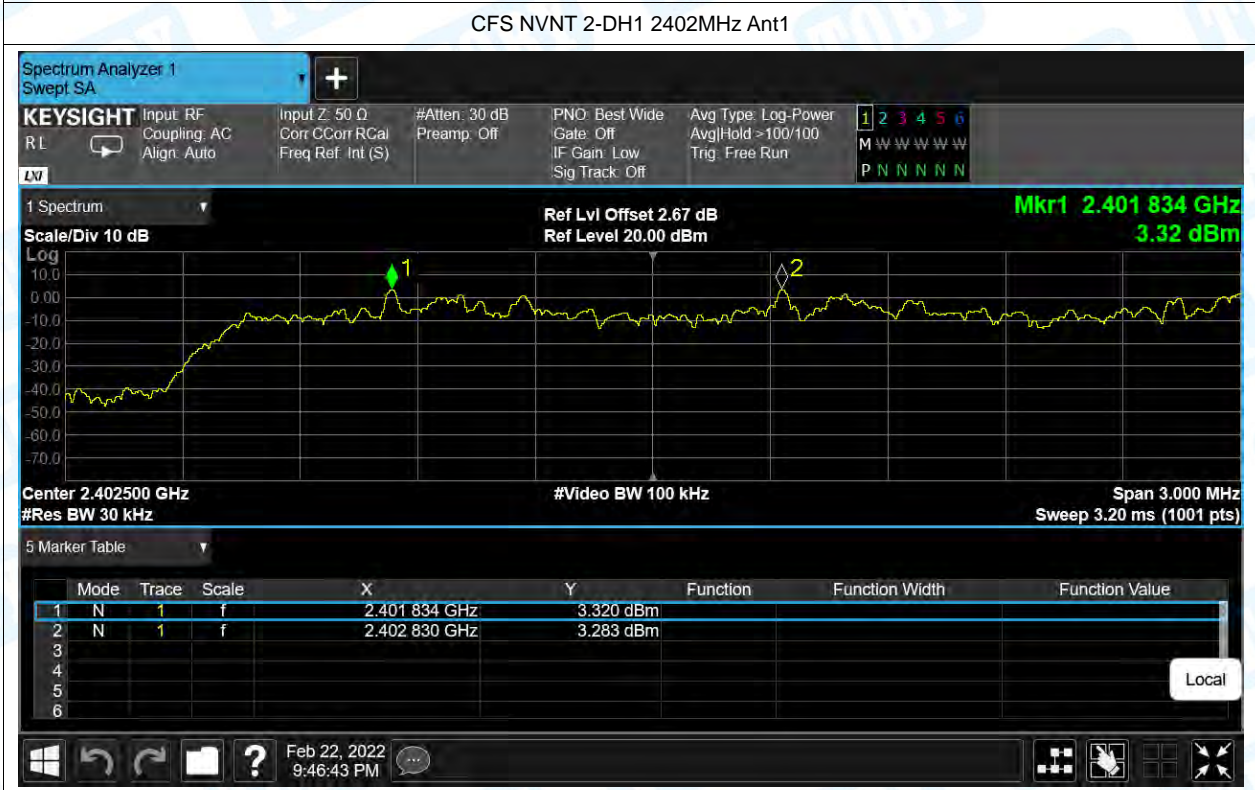
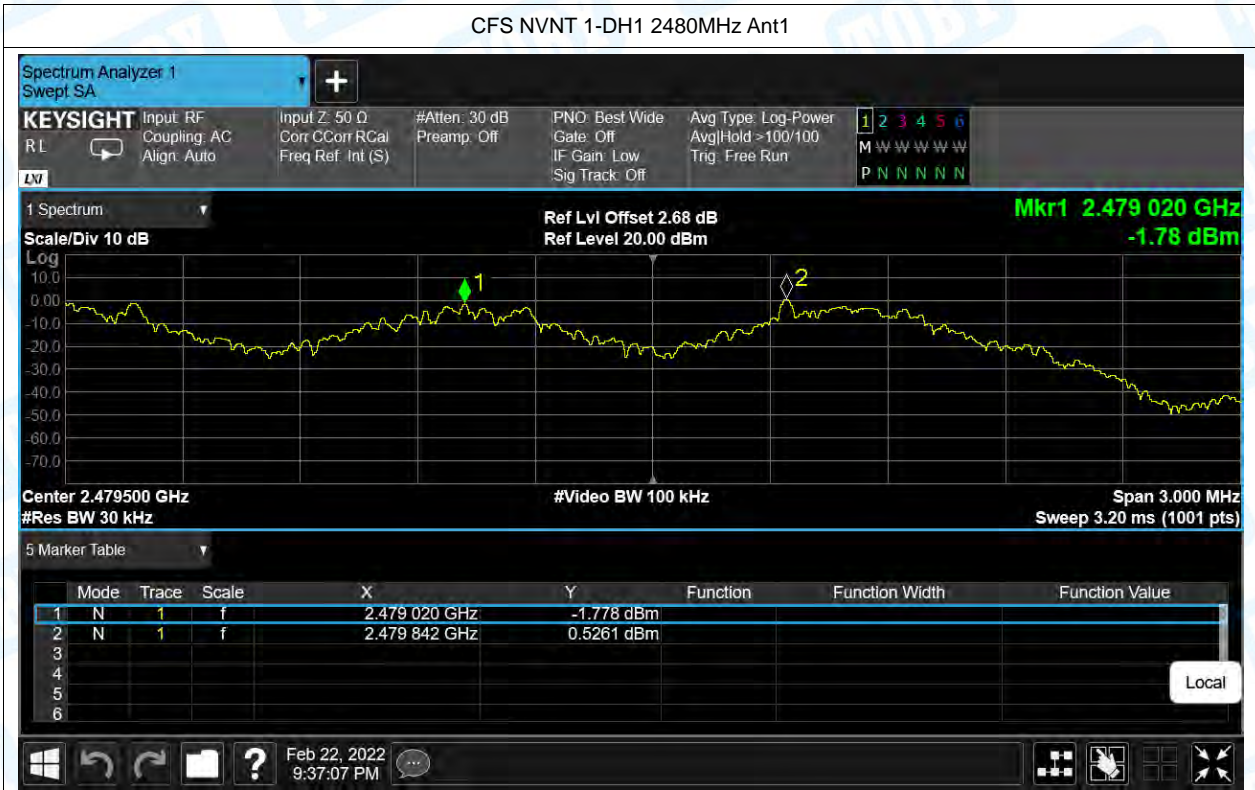
Test Graphs

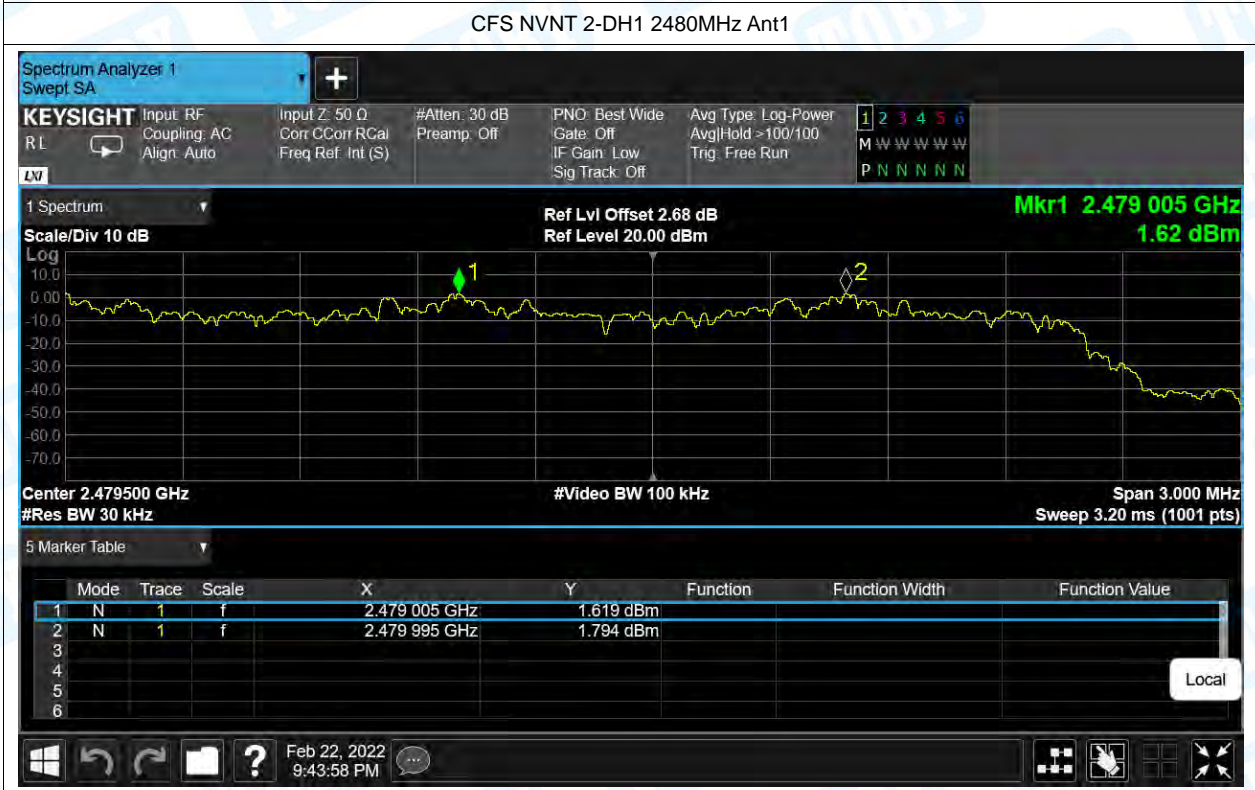
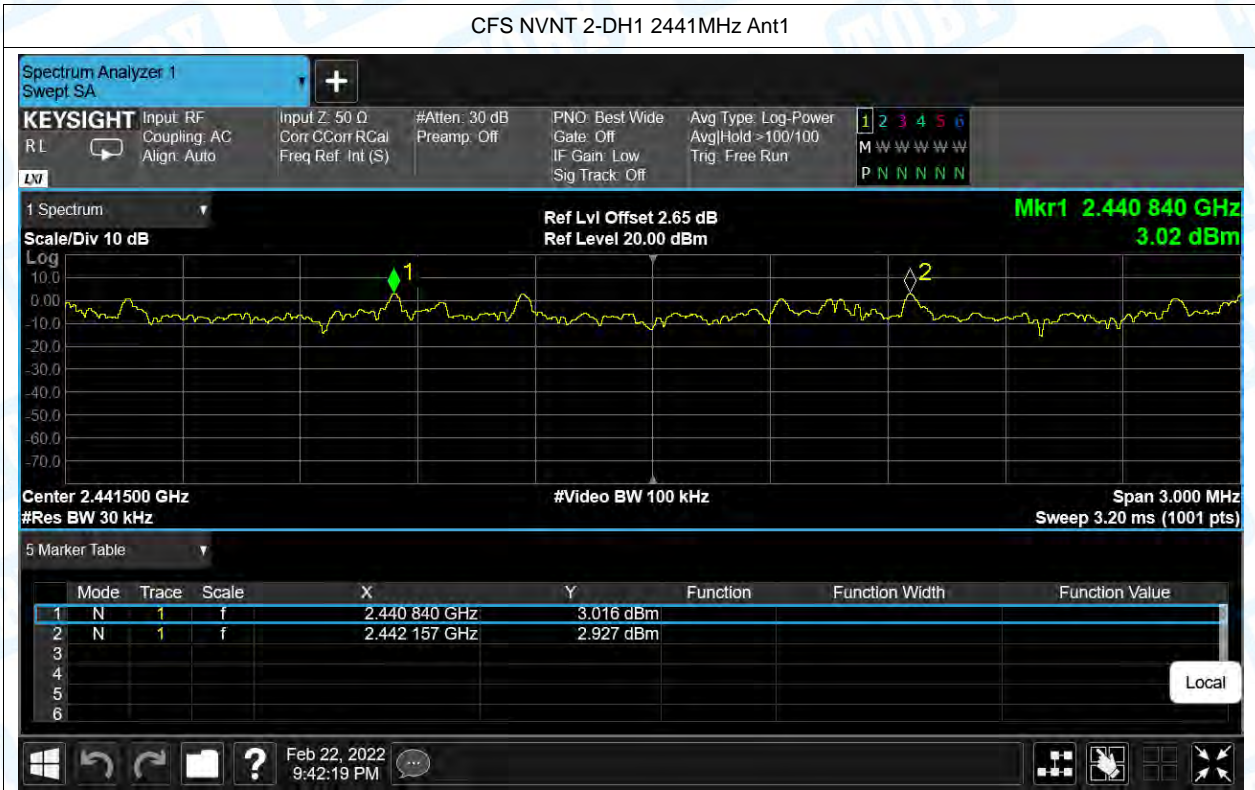
CFS NVNT 1-DH1 2402MHz Ant1

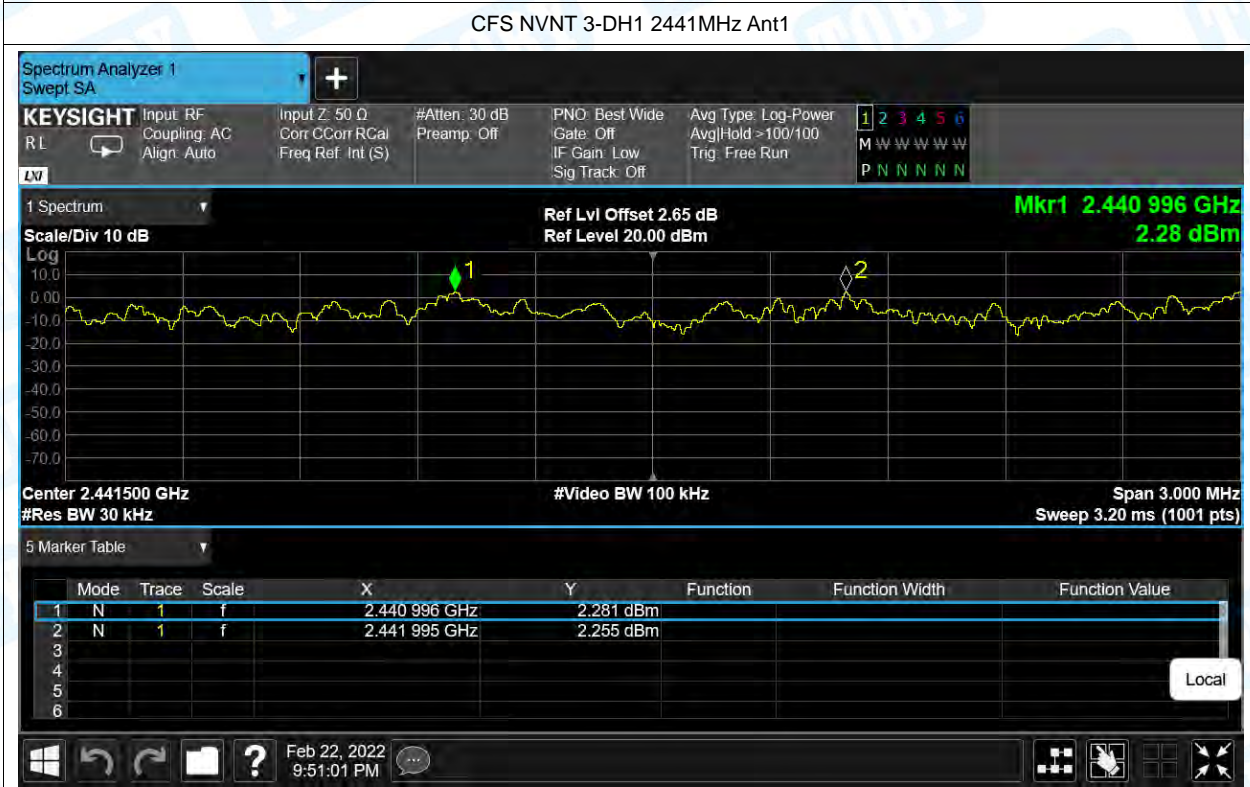
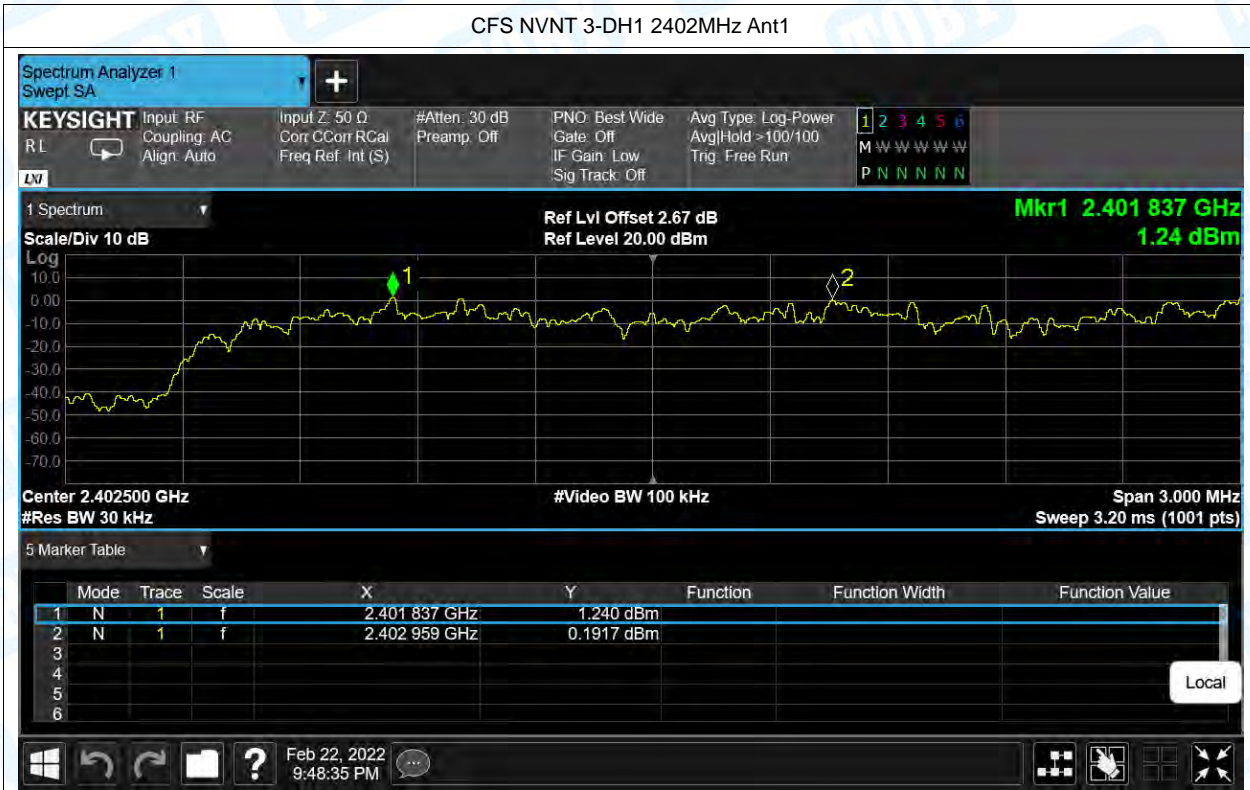


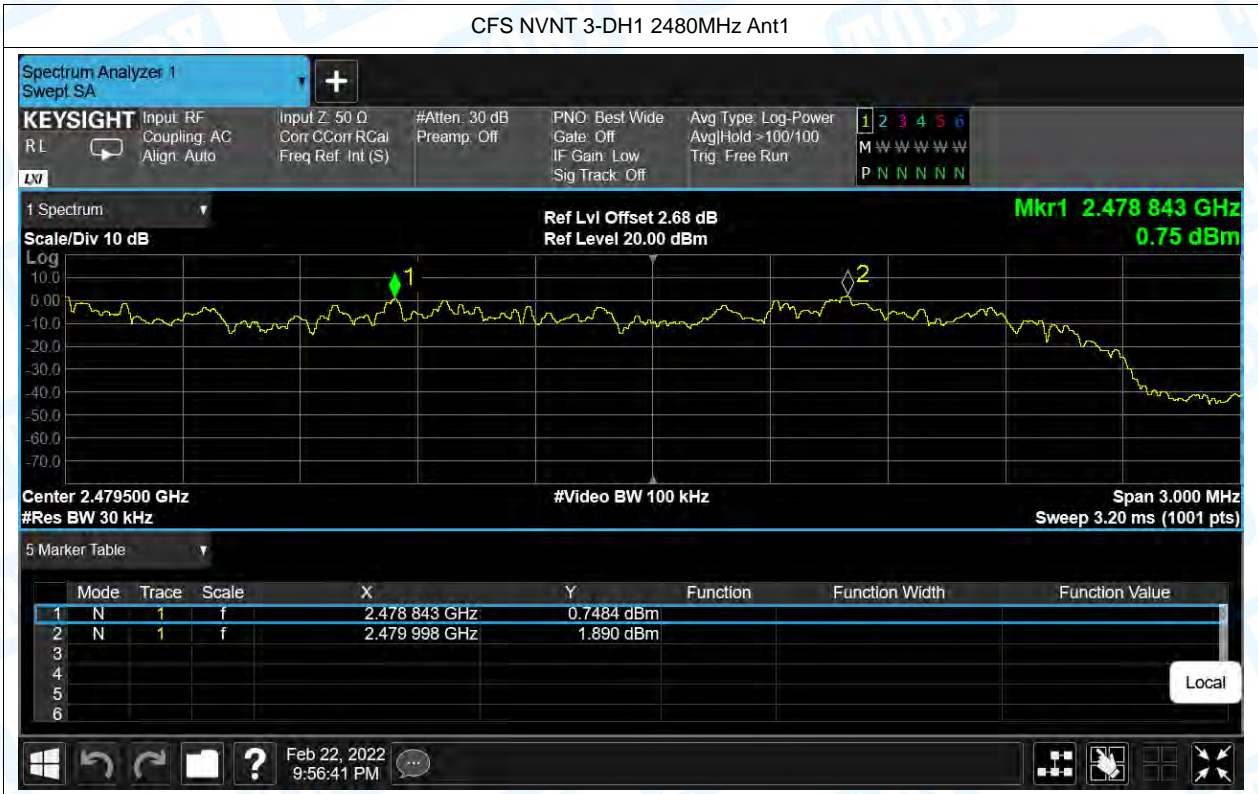
CFS NVNT 1-DH1 2441MHz Ant1









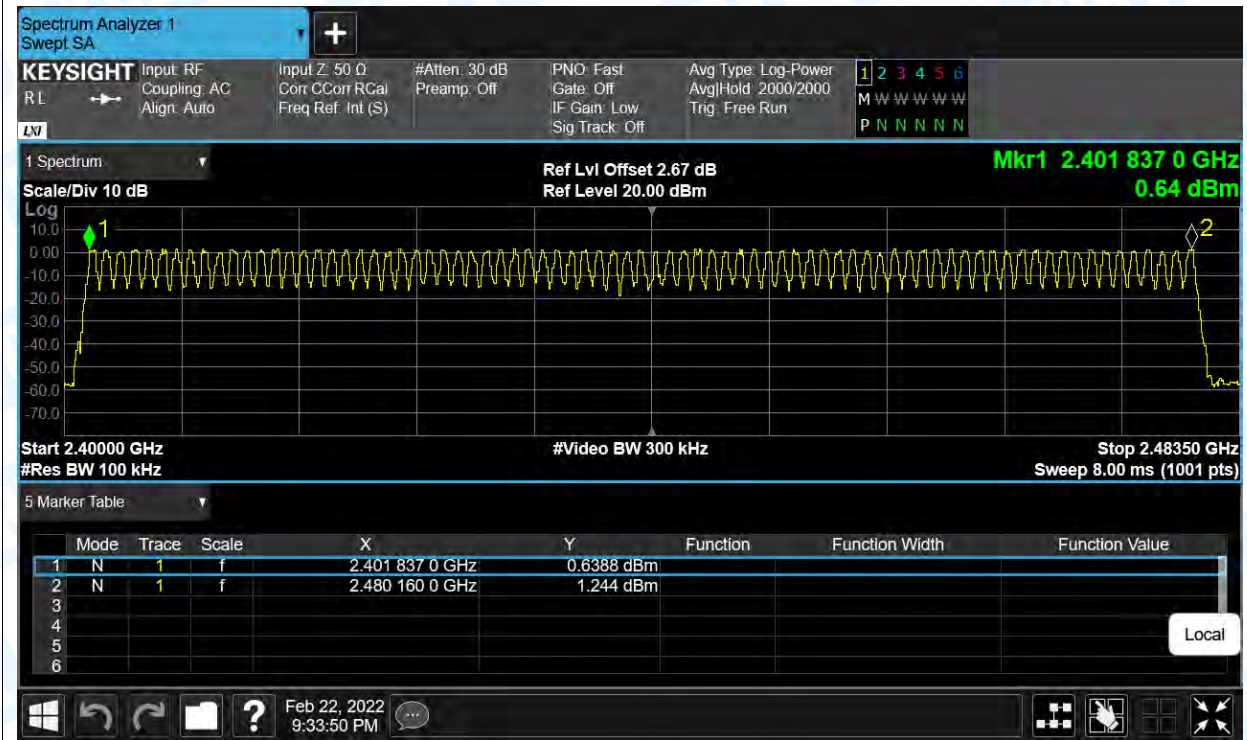


Number of Hopping Channel

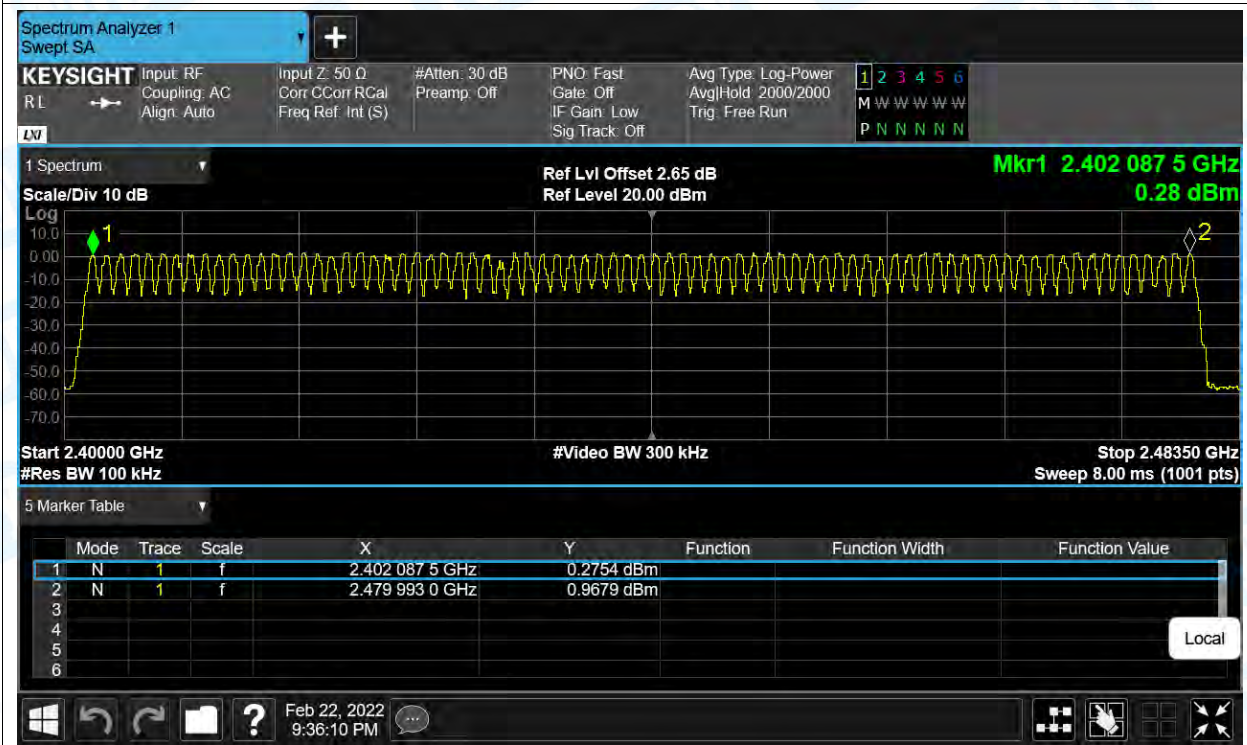
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

Test Graphs

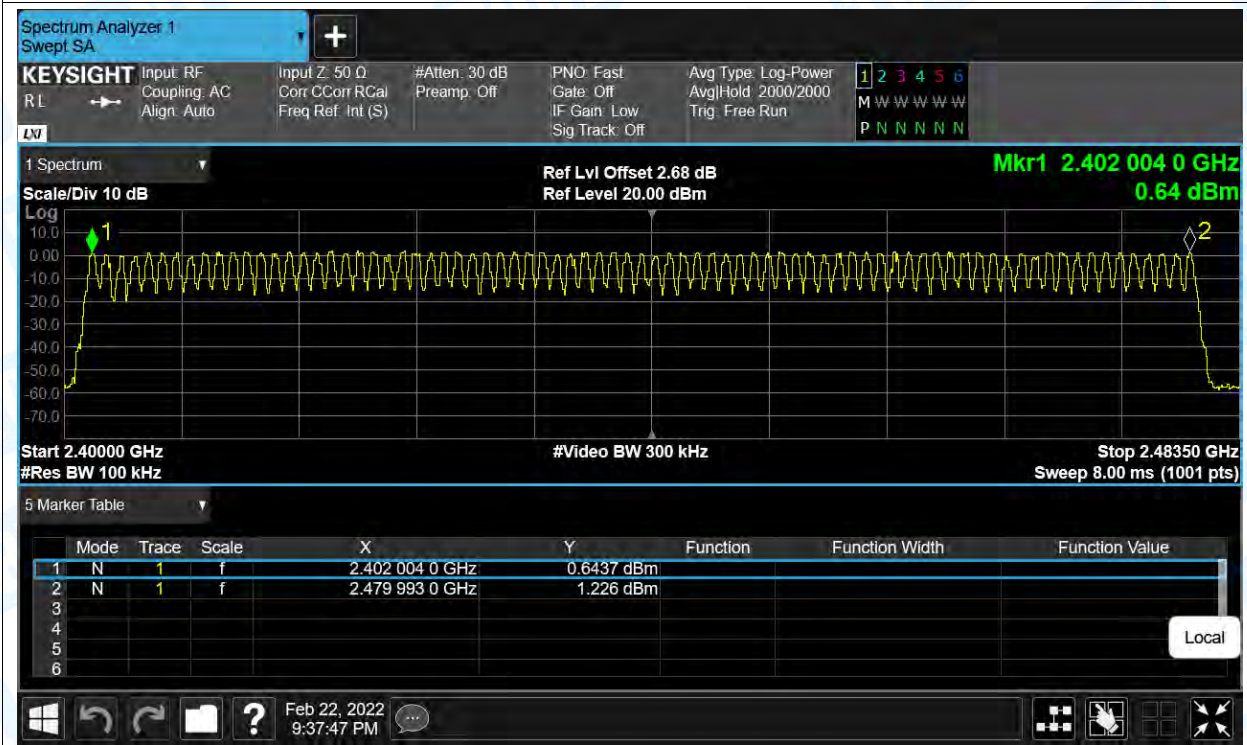
Hopping No. NVNT 1-DH1 2402MHz Ant1



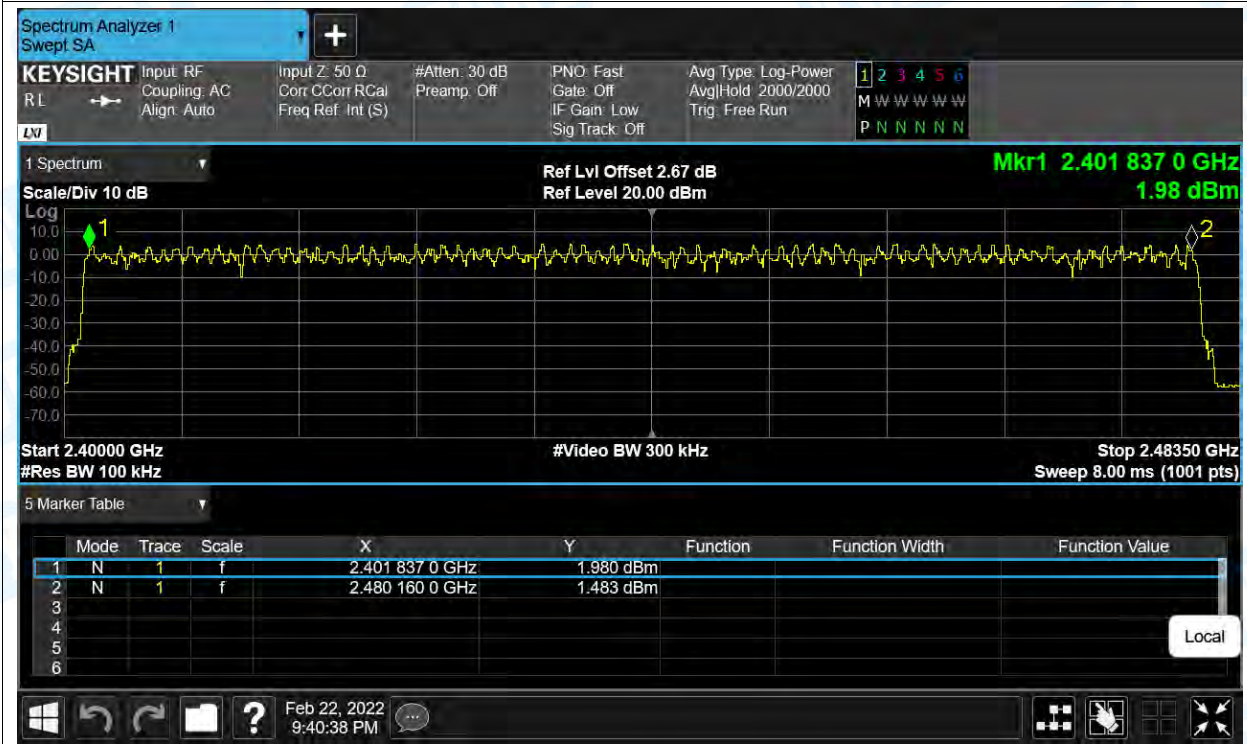
Hopping No. NVNT 1-DH1 2441MHz Ant1



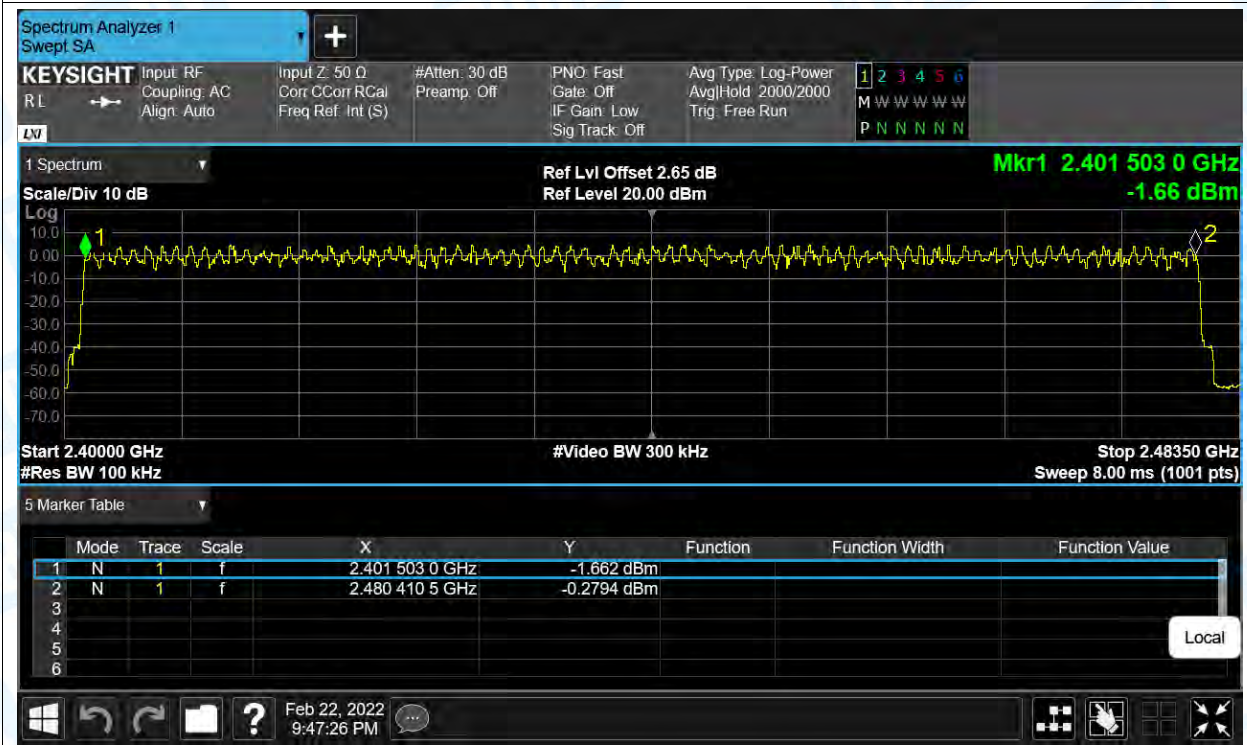
Hopping No. NVNT 1-DH1 2480MHz Ant1



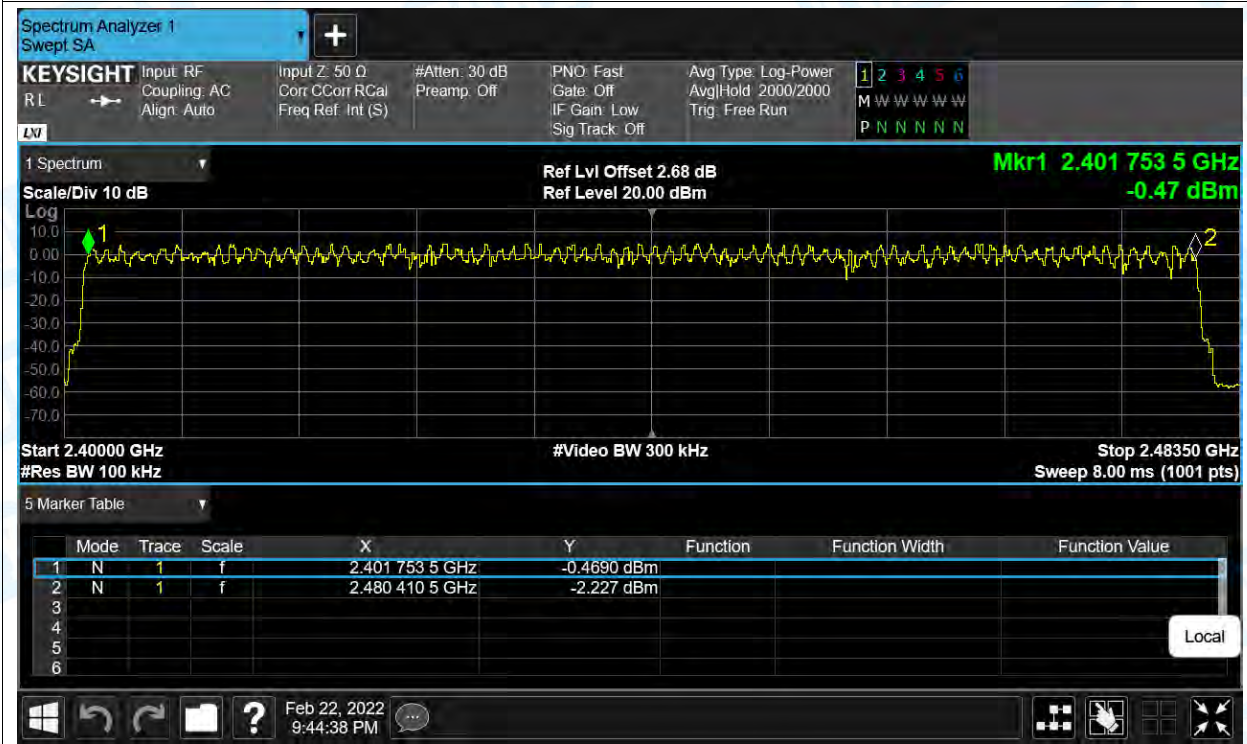
Hopping No. NVNT 2-DH1 2402MHz Ant1



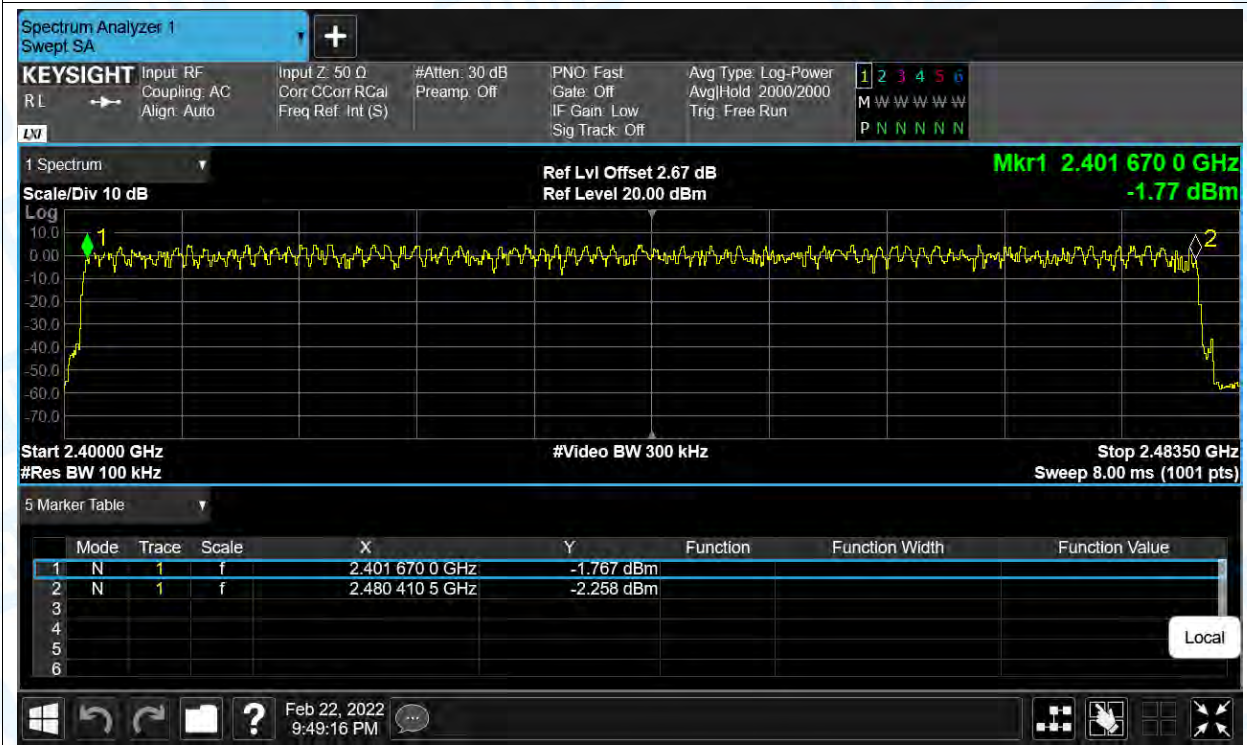
Hopping No. NVNT 2-DH1 2441MHz Ant1



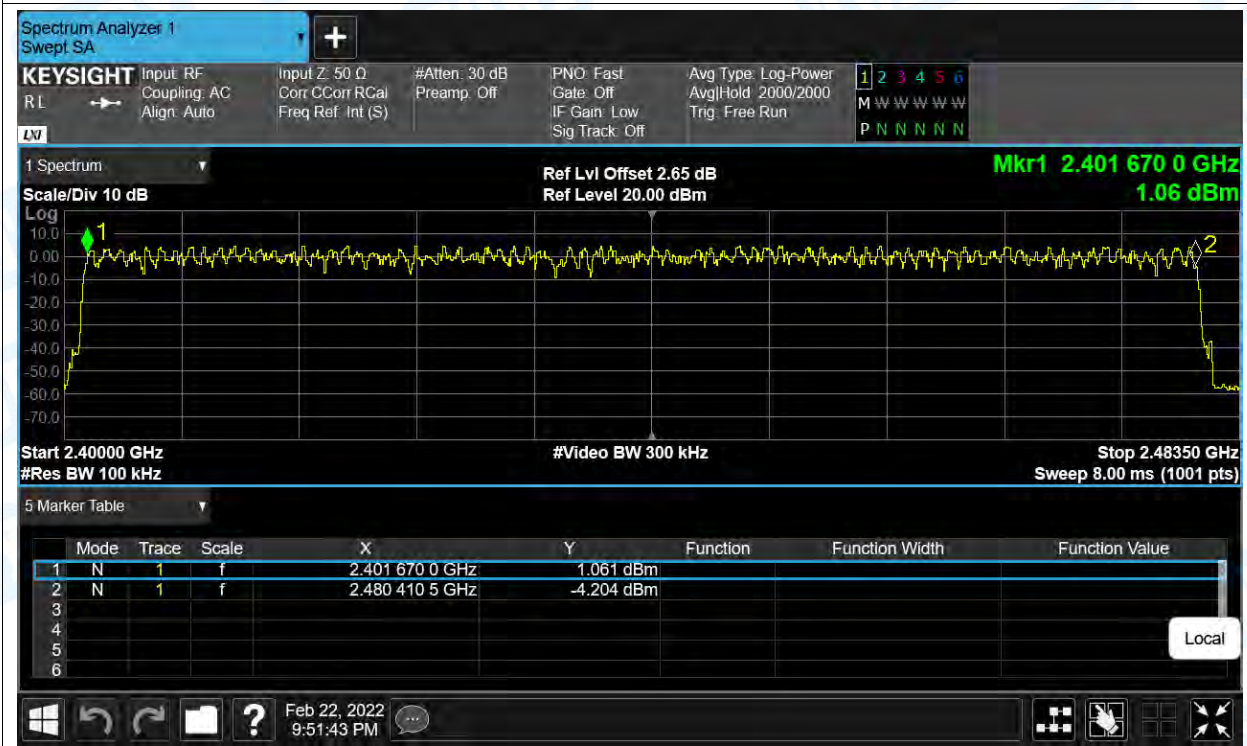
Hopping No. NVNT 2-DH1 2480MHz Ant1

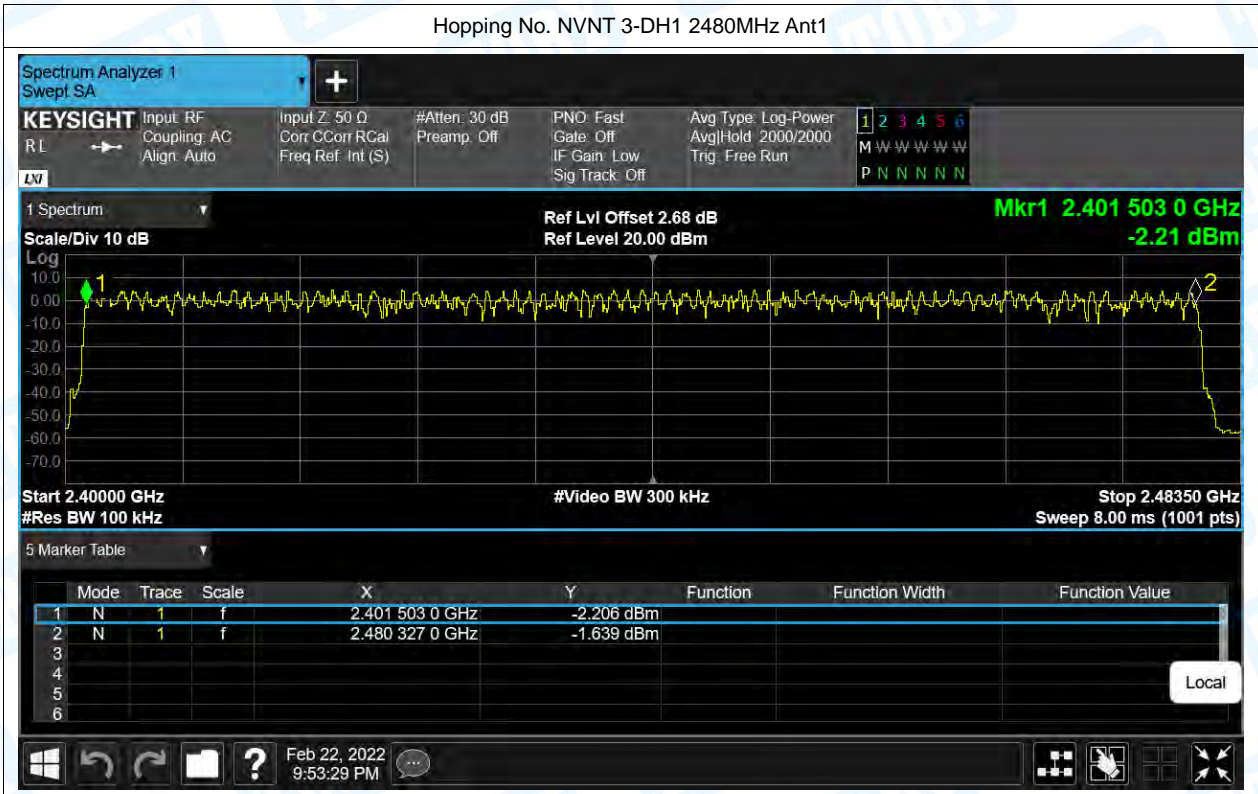


Hopping No. NVNT 3-DH1 2402MHz Ant1



Hopping No. NVNT 3-DH1 2441MHz Ant1



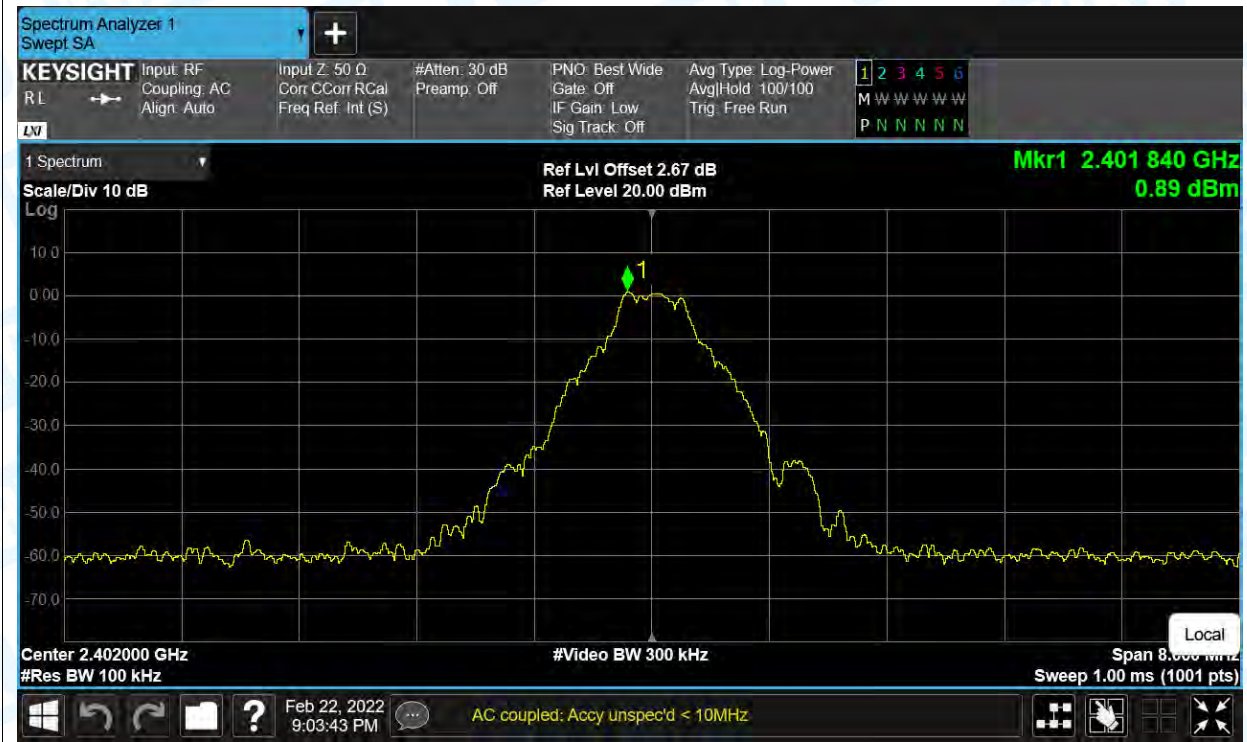


Band Edge

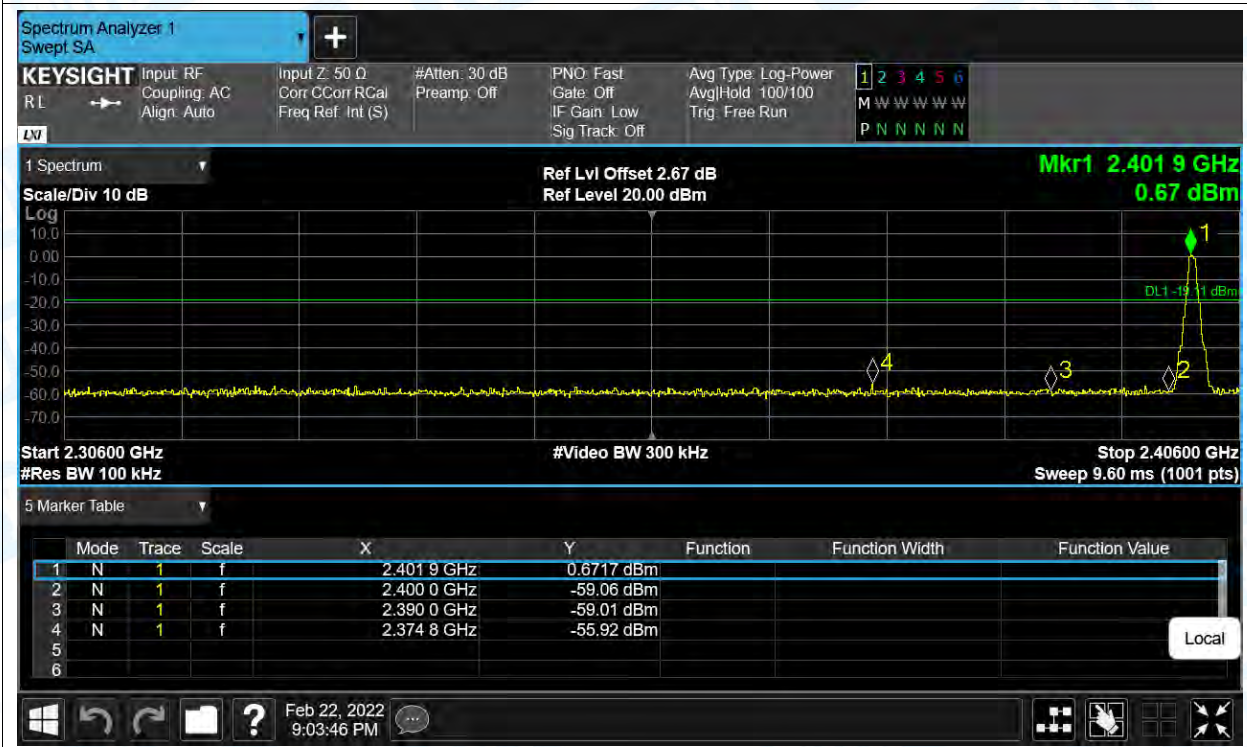
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-56.81	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-56.87	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-60.44	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-60.18	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-59.74	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-61.24	-20	Pass

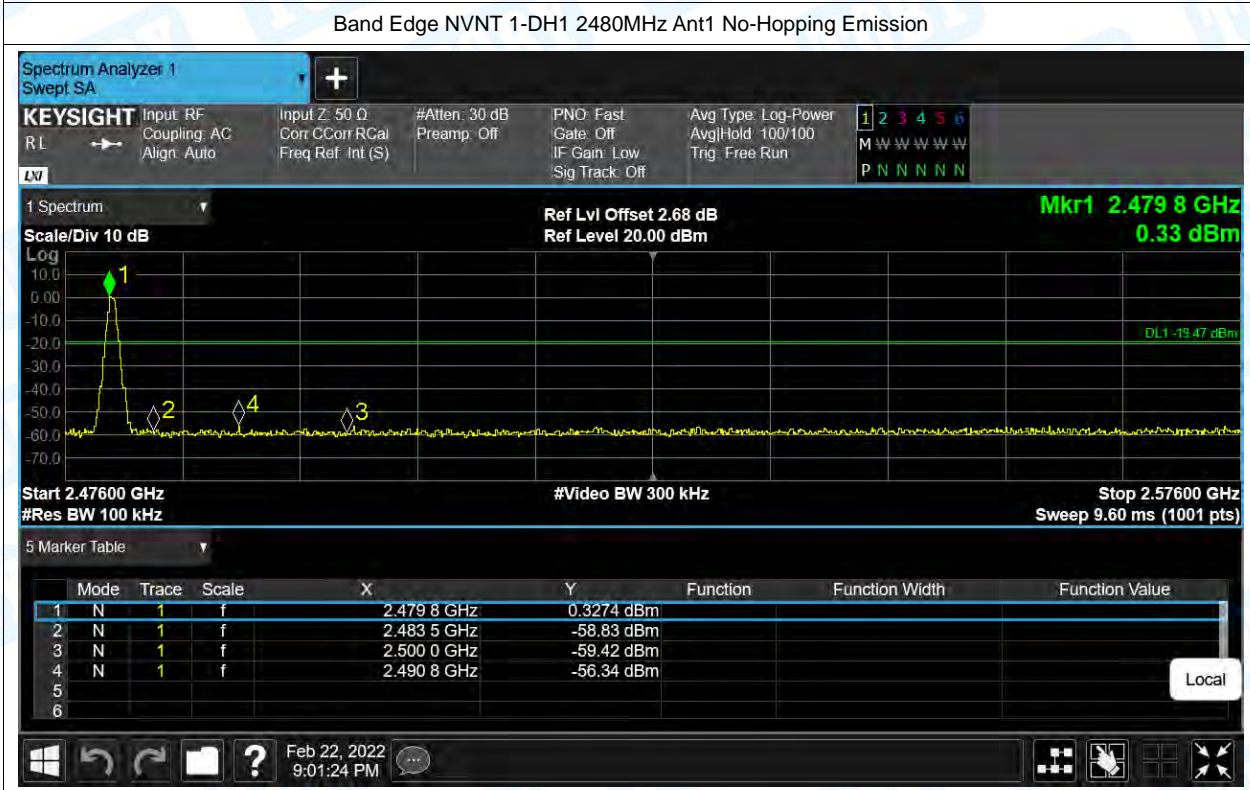
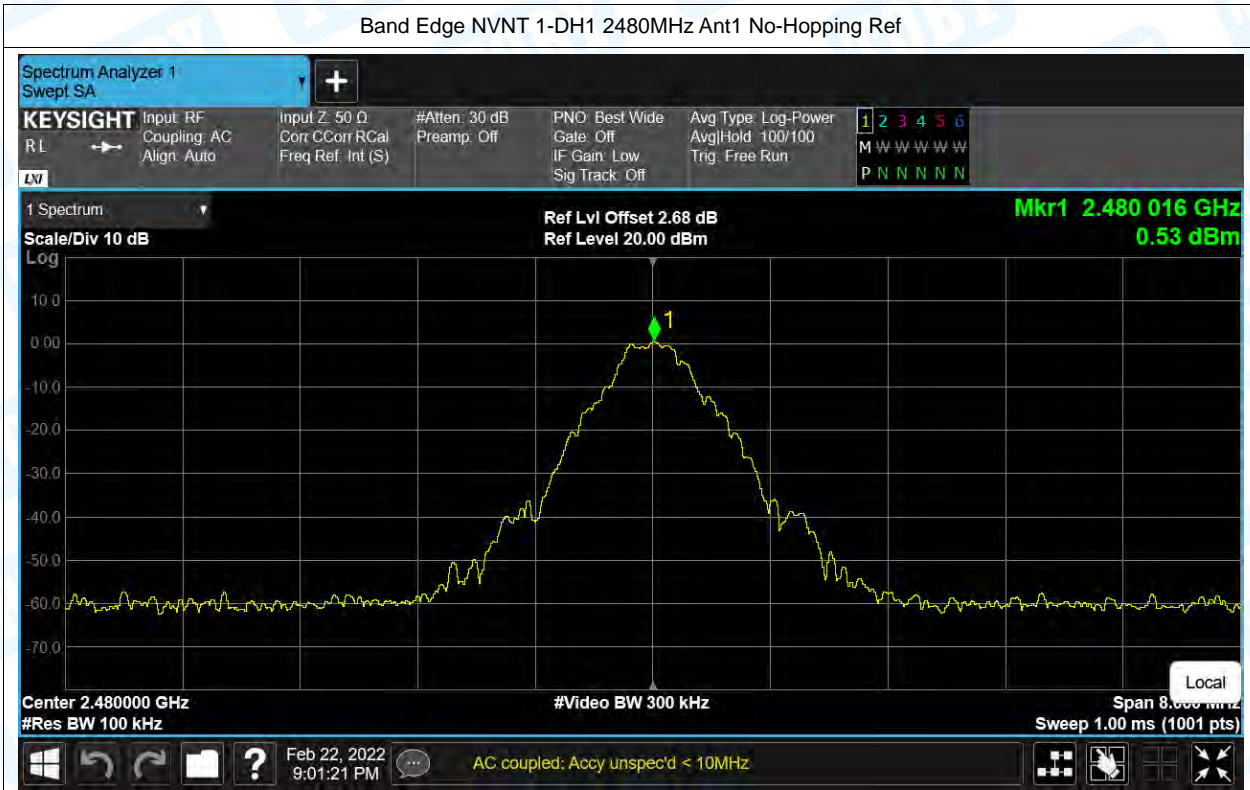
Test Graphs

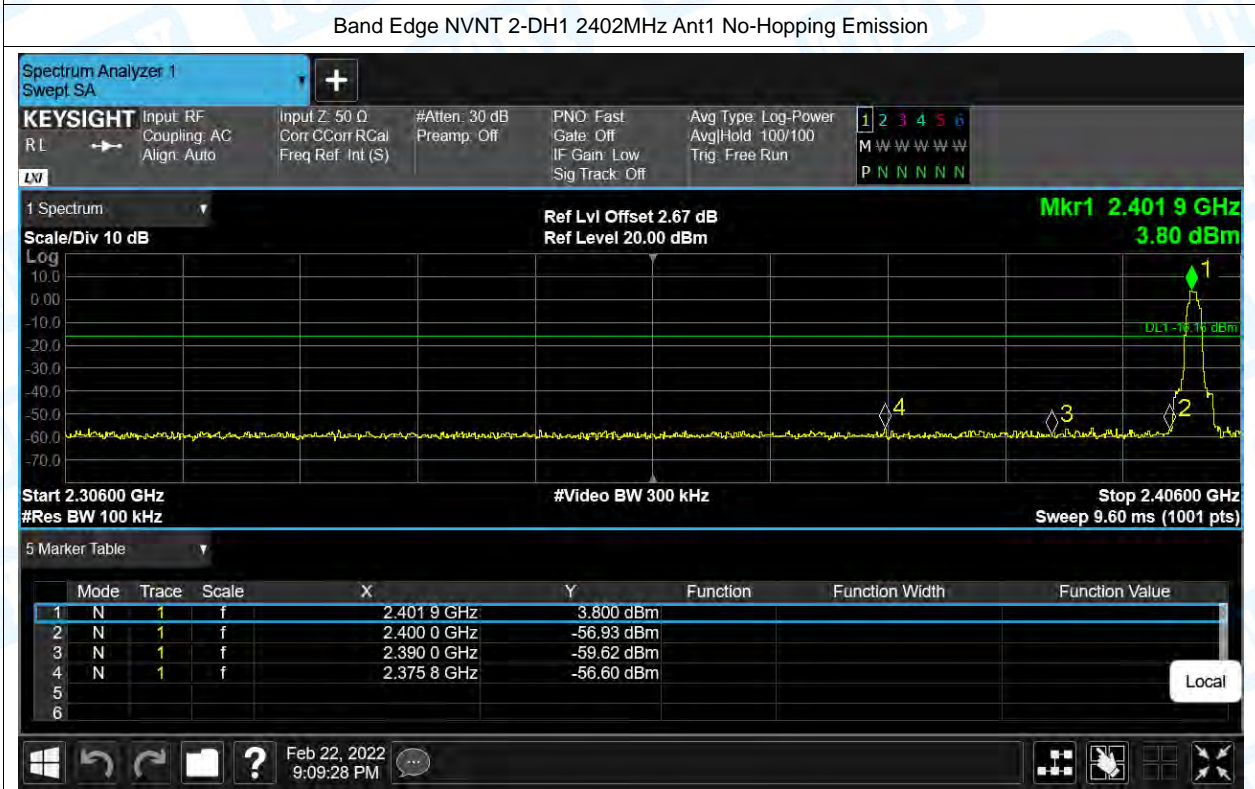
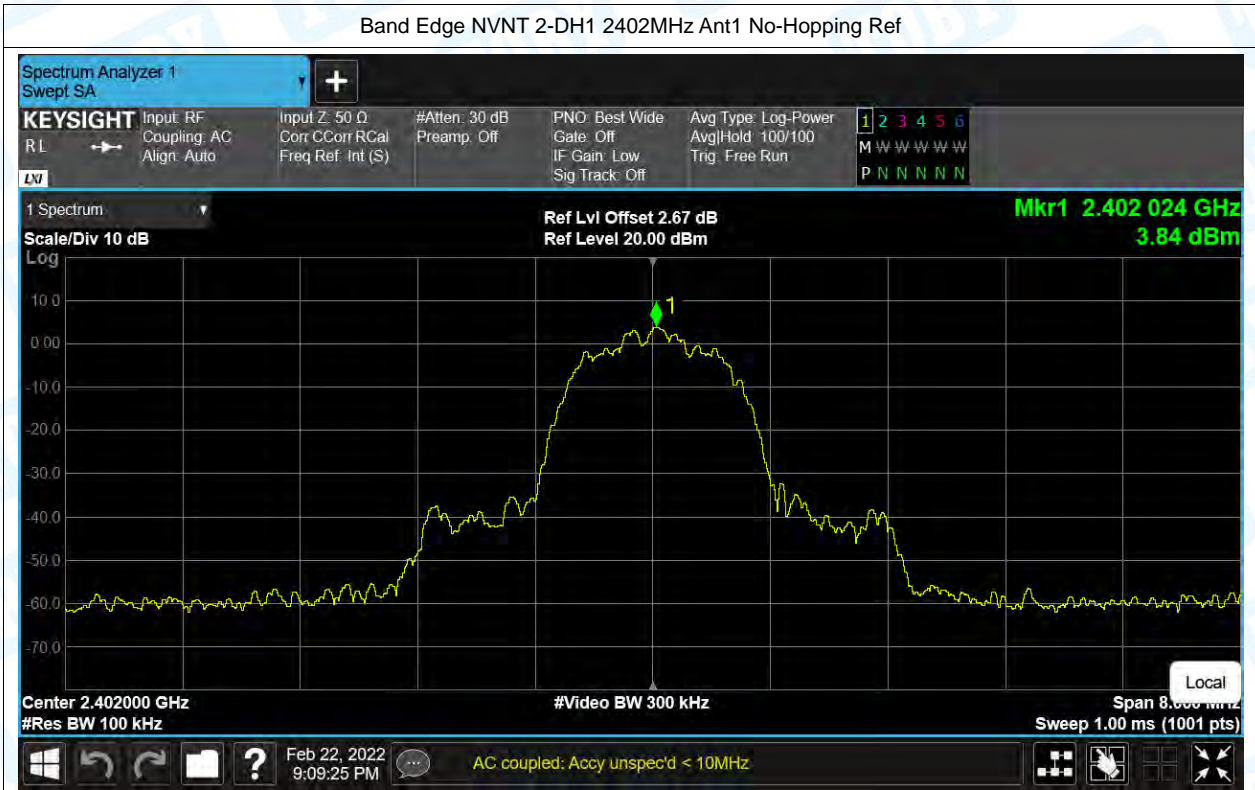
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref

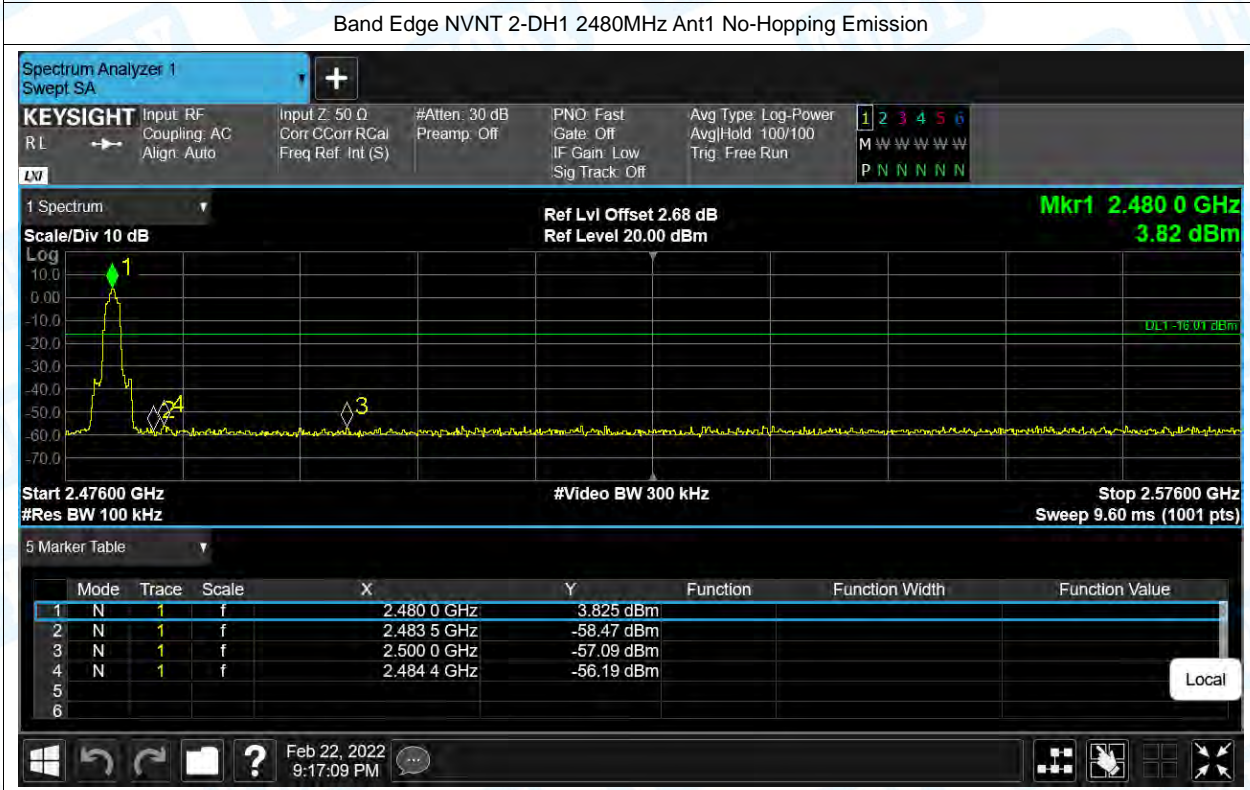
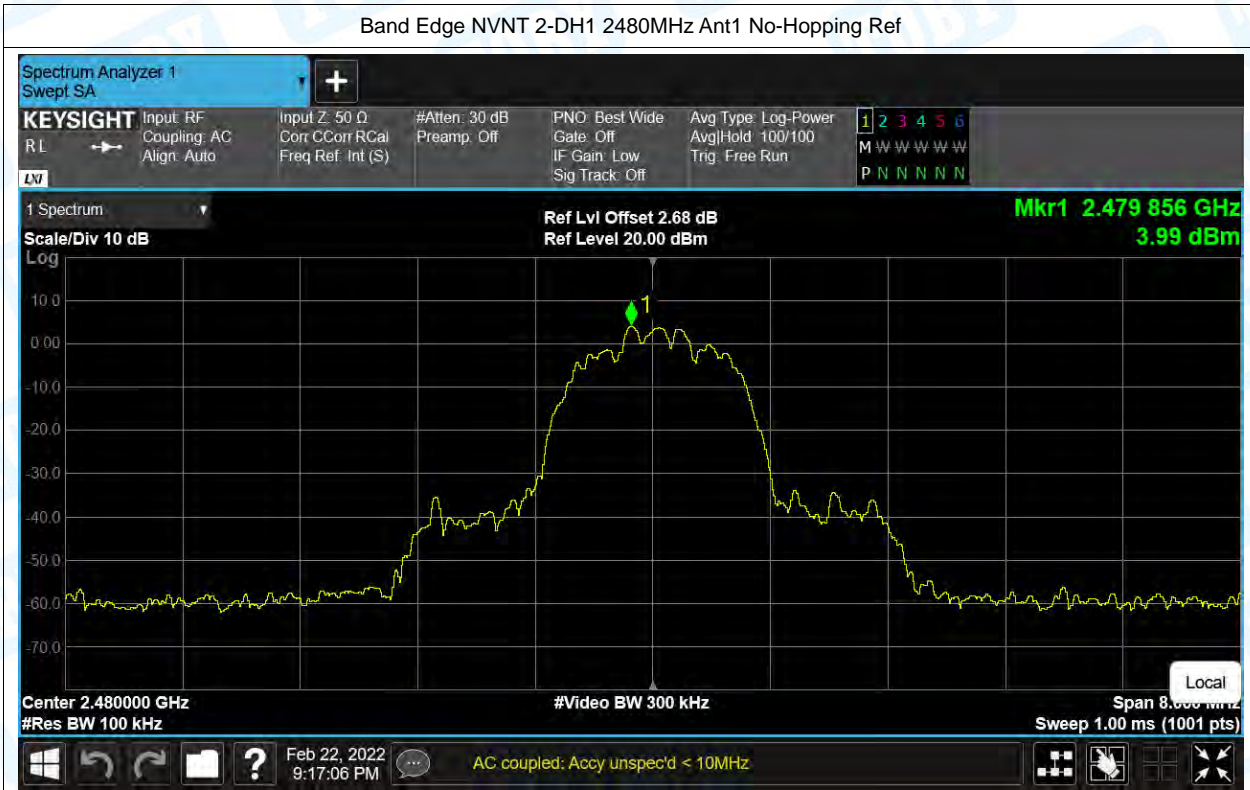


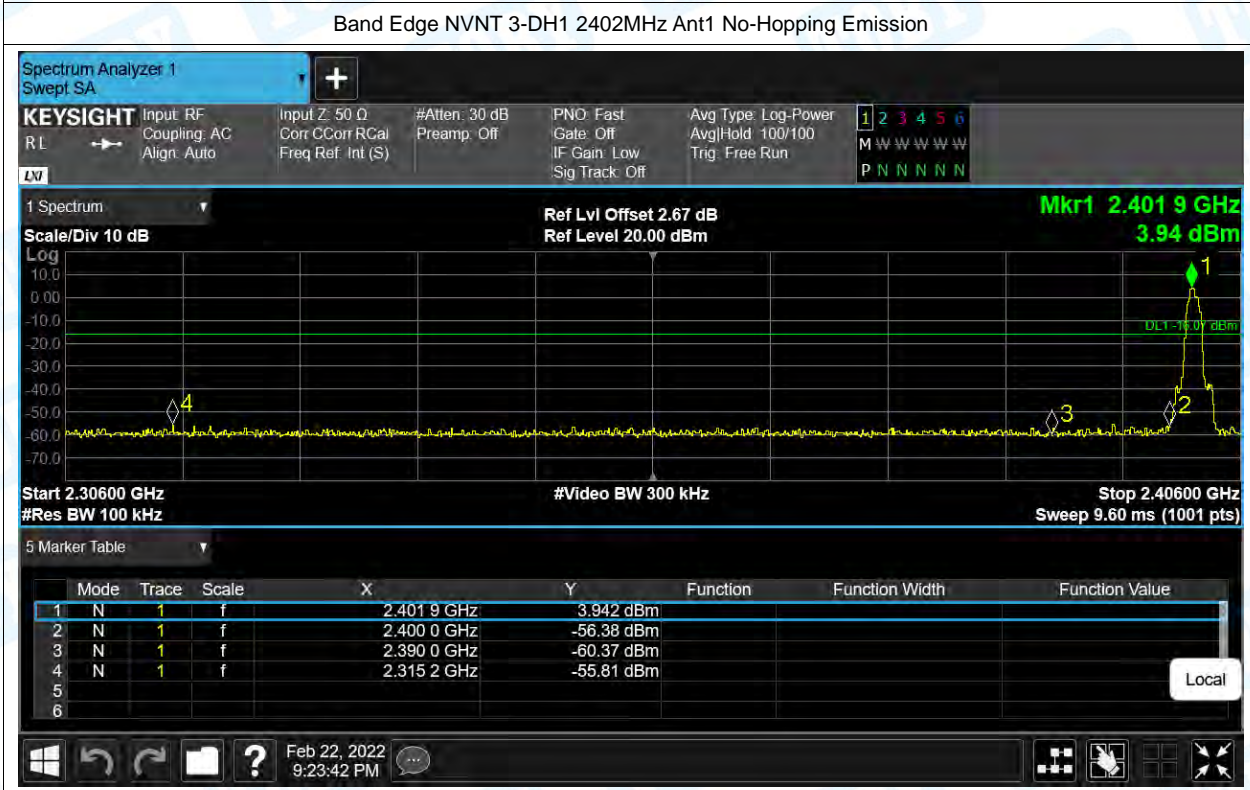
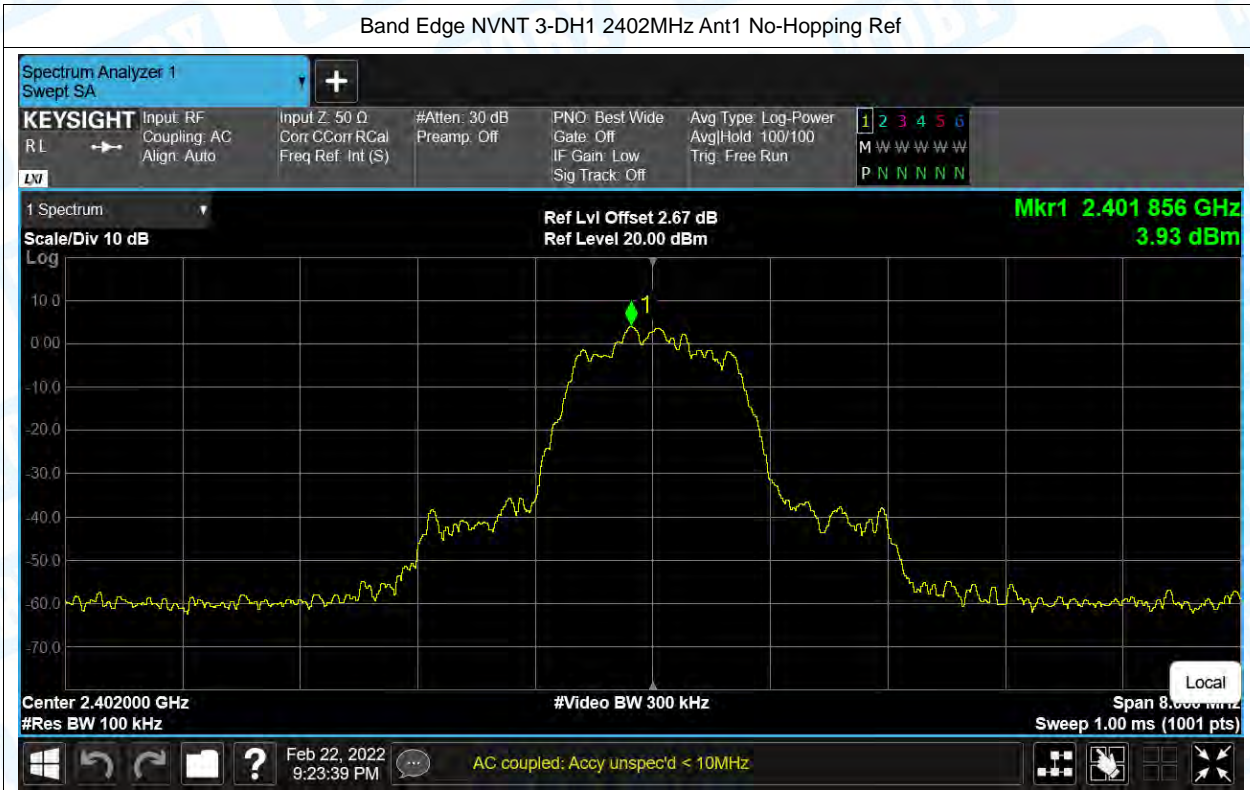
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

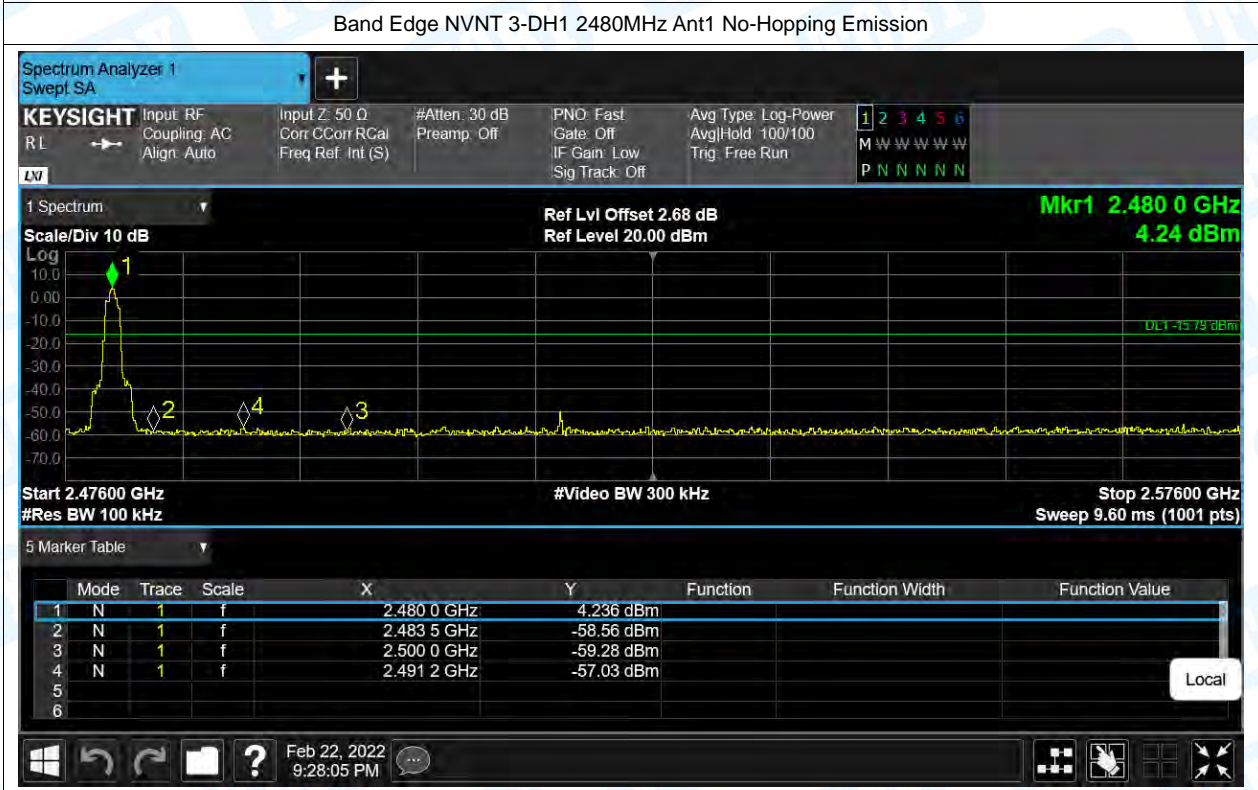












Band Edge(Hopping)

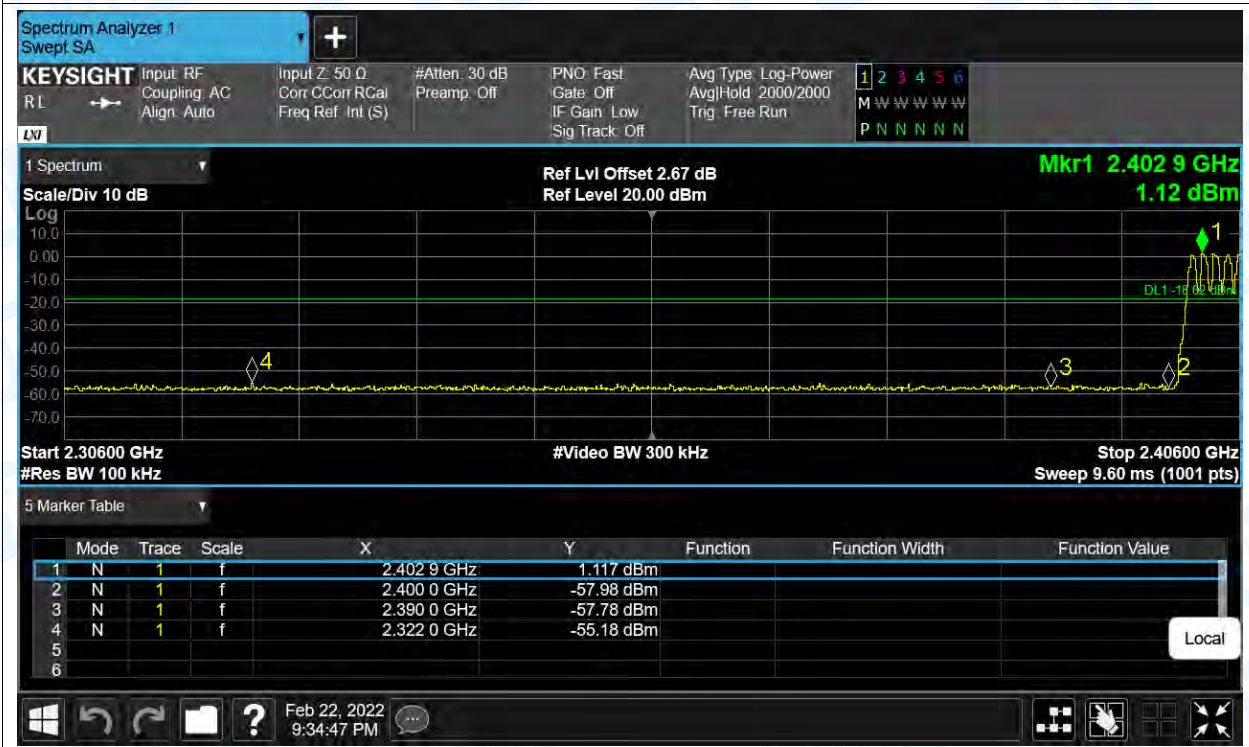
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-56.56	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-56.88	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-59.22	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-59.68	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-57.17	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-59.03	-20	Pass

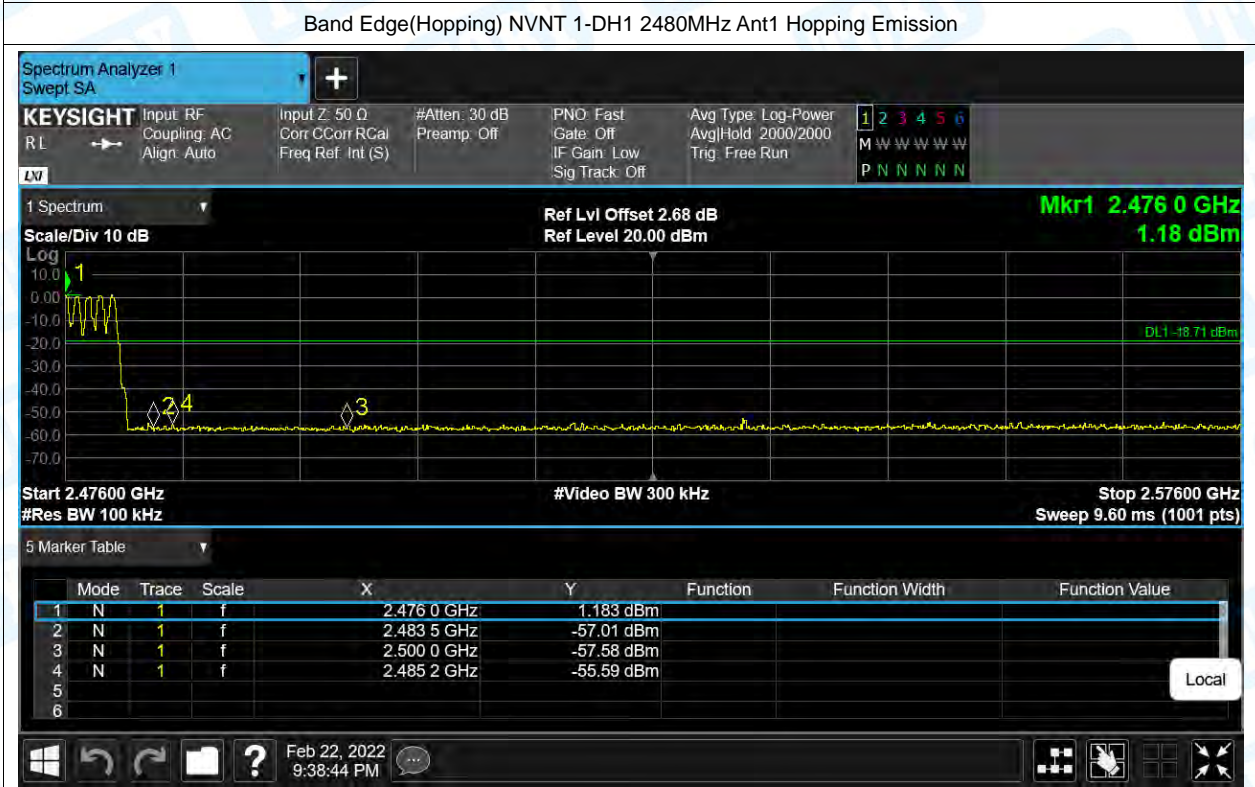
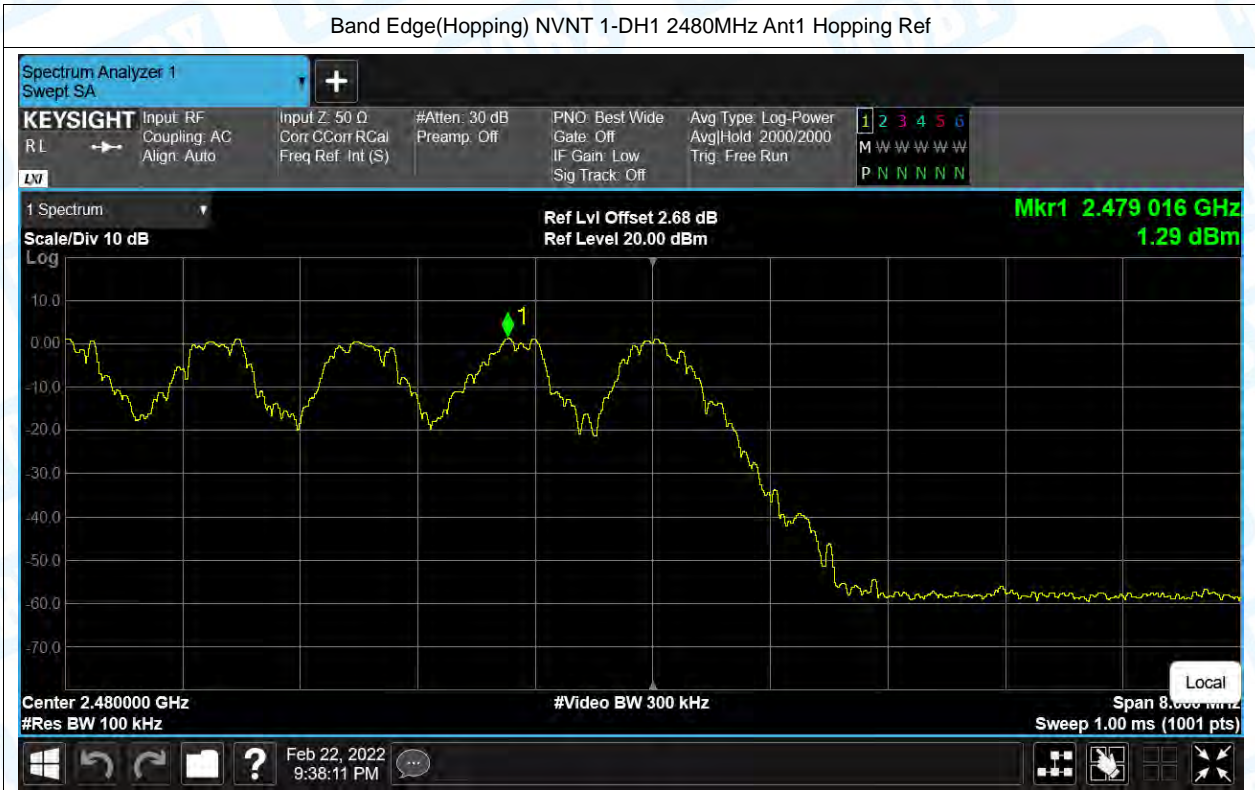
Test Graphs

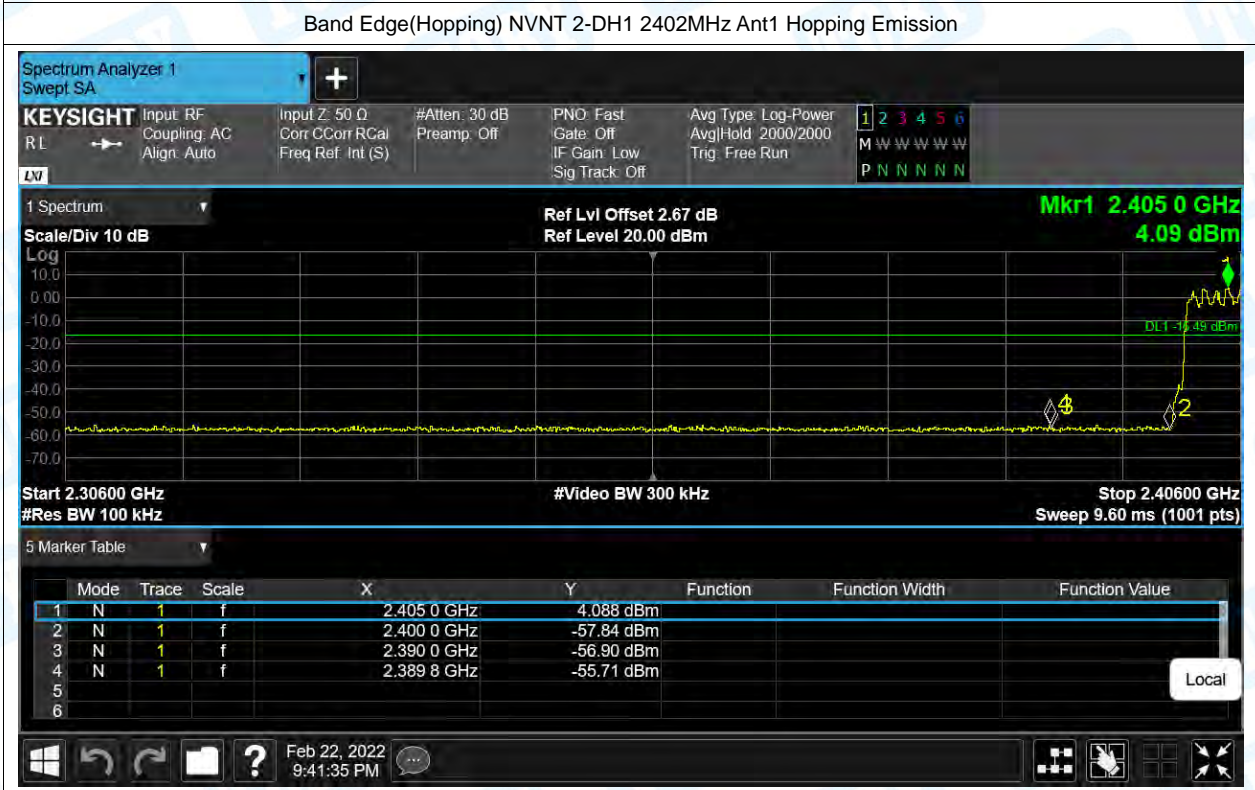
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref

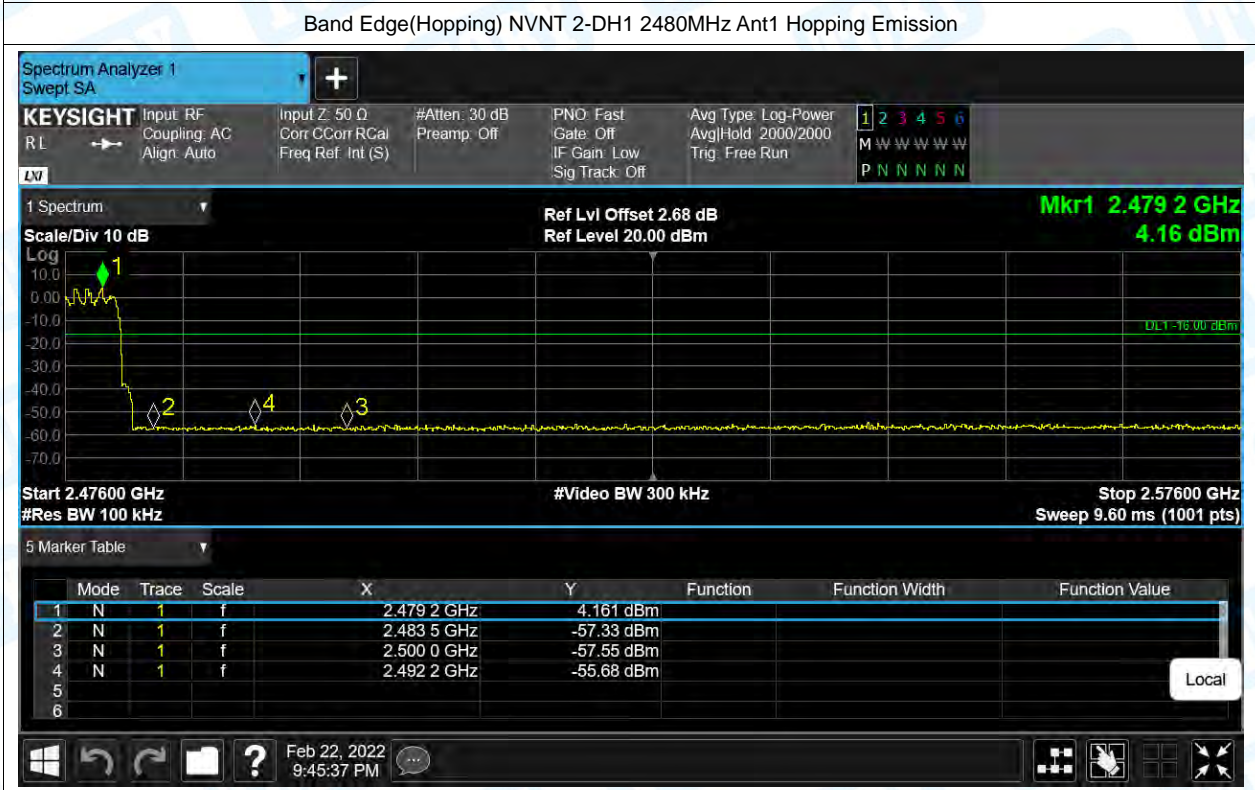


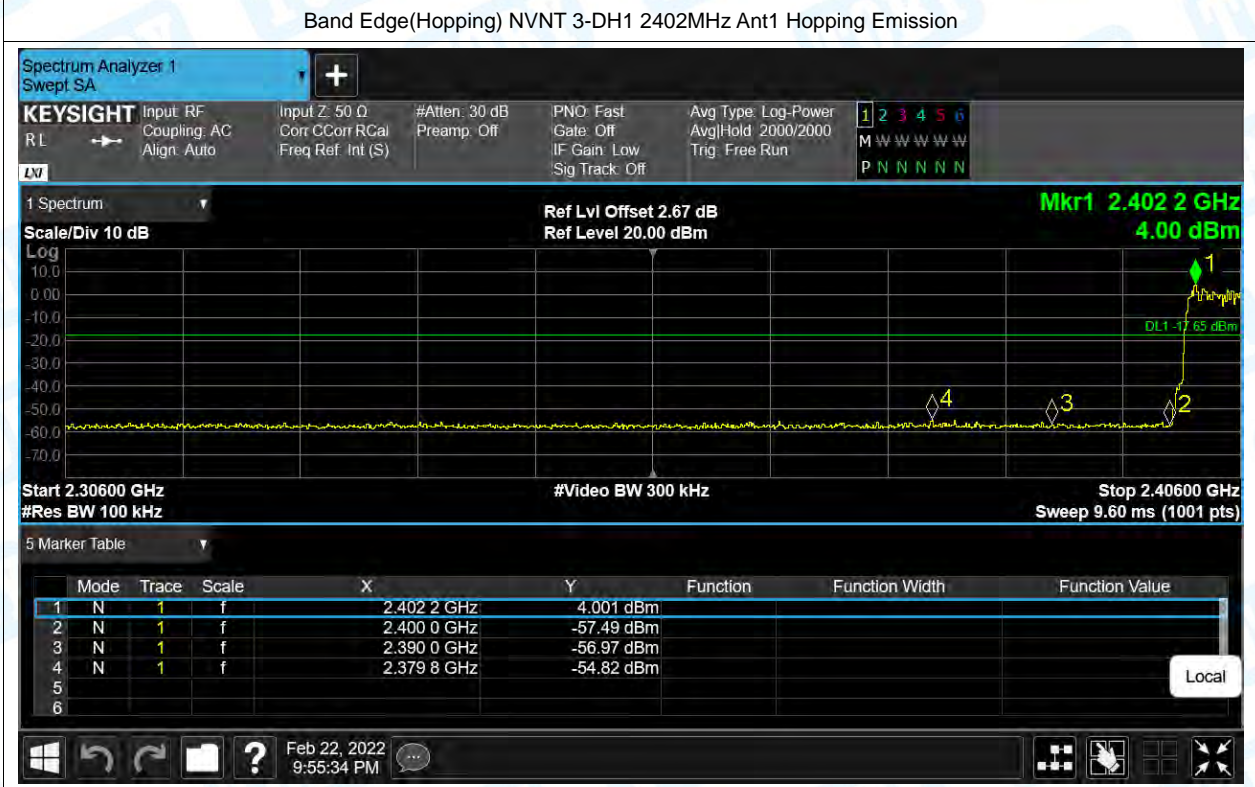
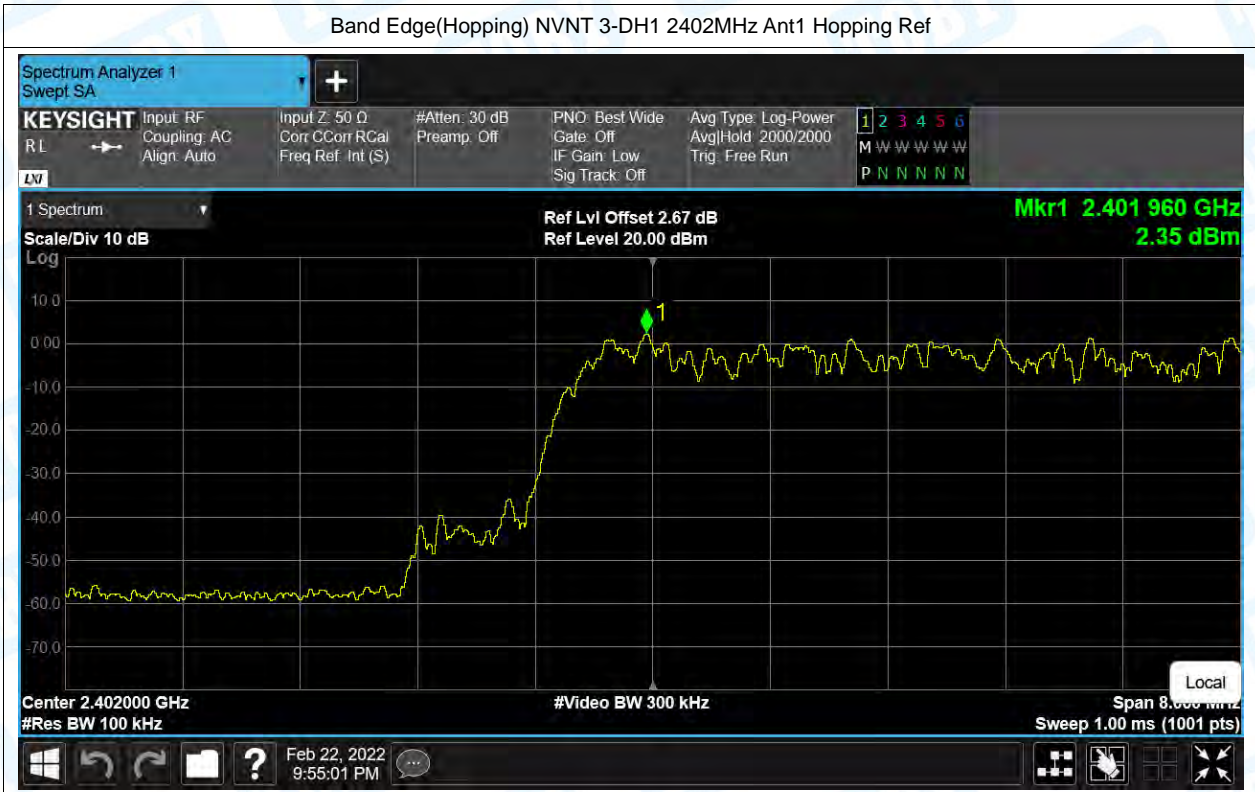
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission

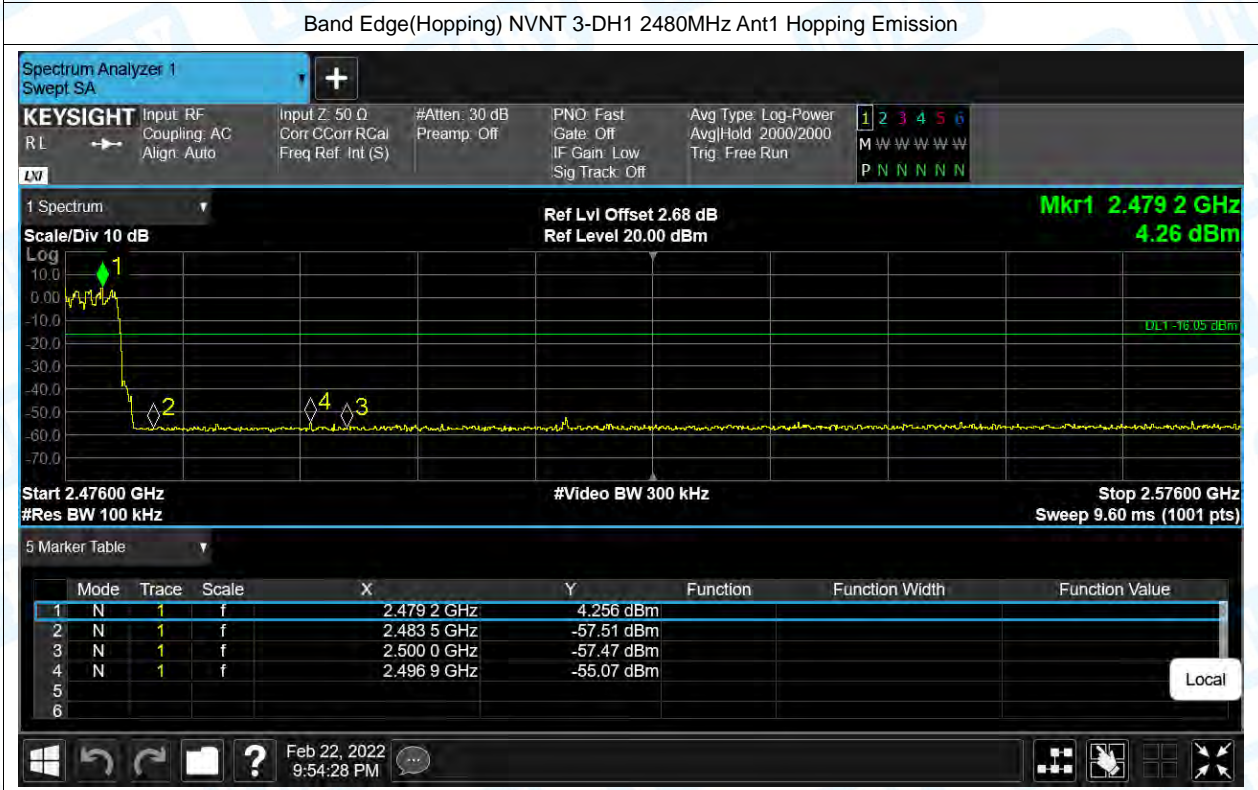












Conducted RF Spurious Emission

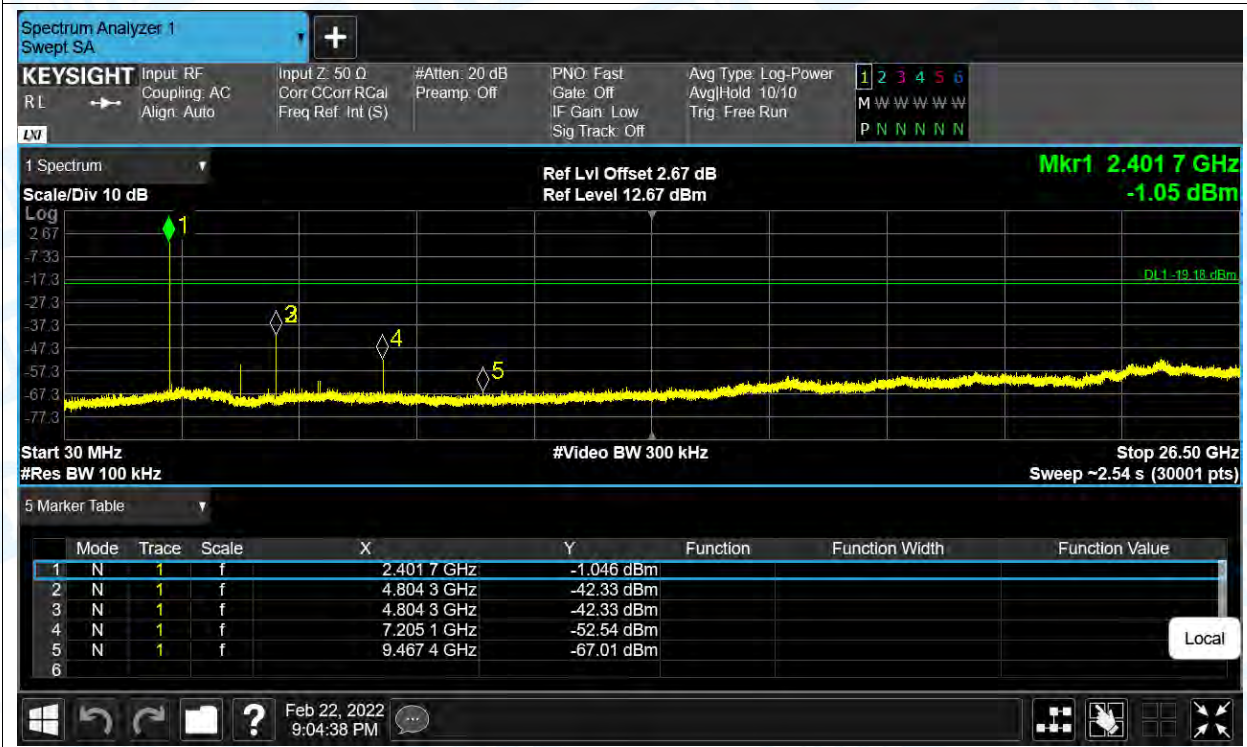
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-43.16	-20	Pass
NVNT	1-DH1	2441	Ant1	-38.92	-20	Pass
NVNT	1-DH1	2480	Ant1	-41.56	-20	Pass
NVNT	2-DH1	2402	Ant1	-39.07	-20	Pass
NVNT	2-DH1	2441	Ant1	-43.41	-20	Pass
NVNT	2-DH1	2480	Ant1	-38.74	-20	Pass
NVNT	3-DH1	2402	Ant1	-38.98	-20	Pass
NVNT	3-DH1	2441	Ant1	-43.25	-20	Pass
NVNT	3-DH1	2480	Ant1	-44.98	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



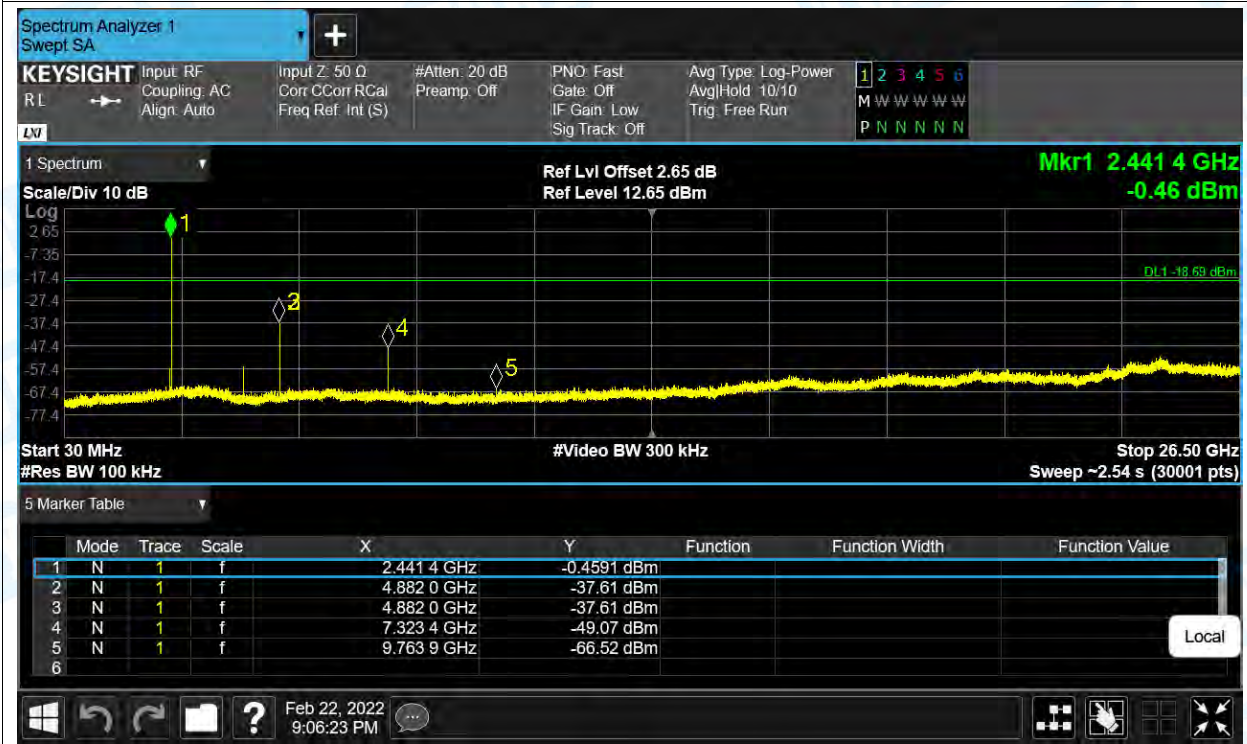
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



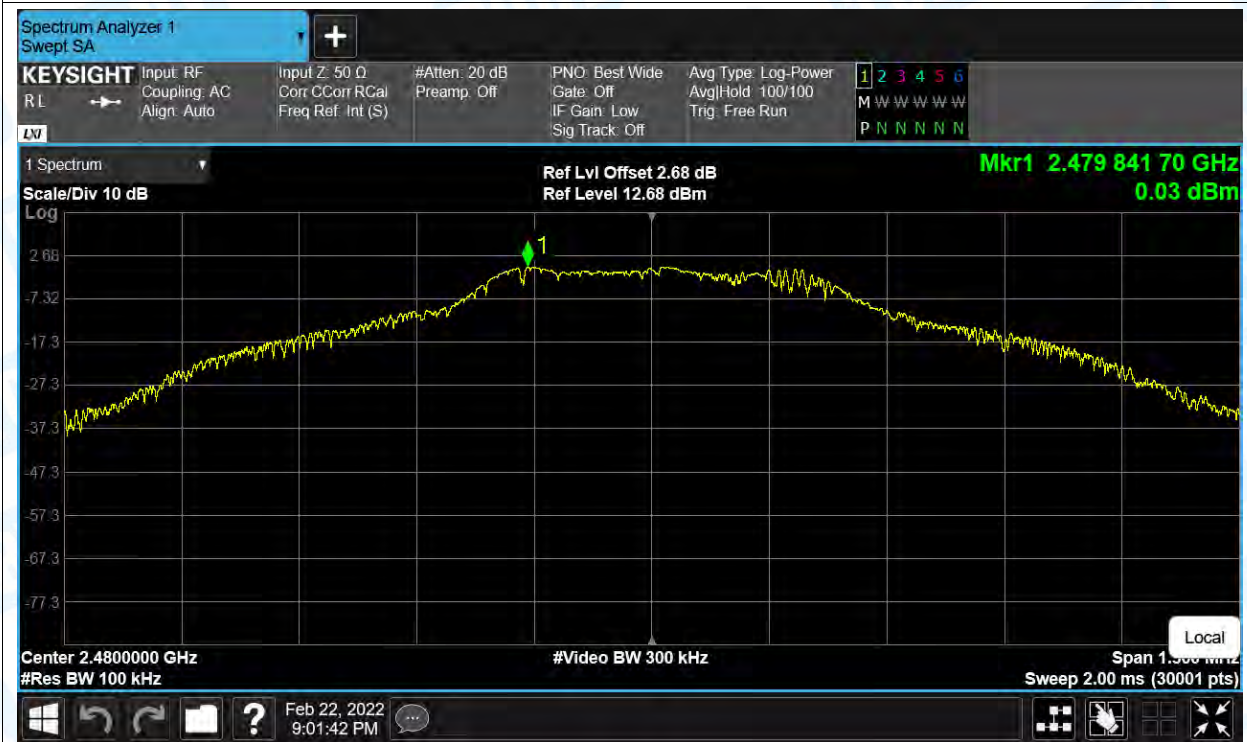
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



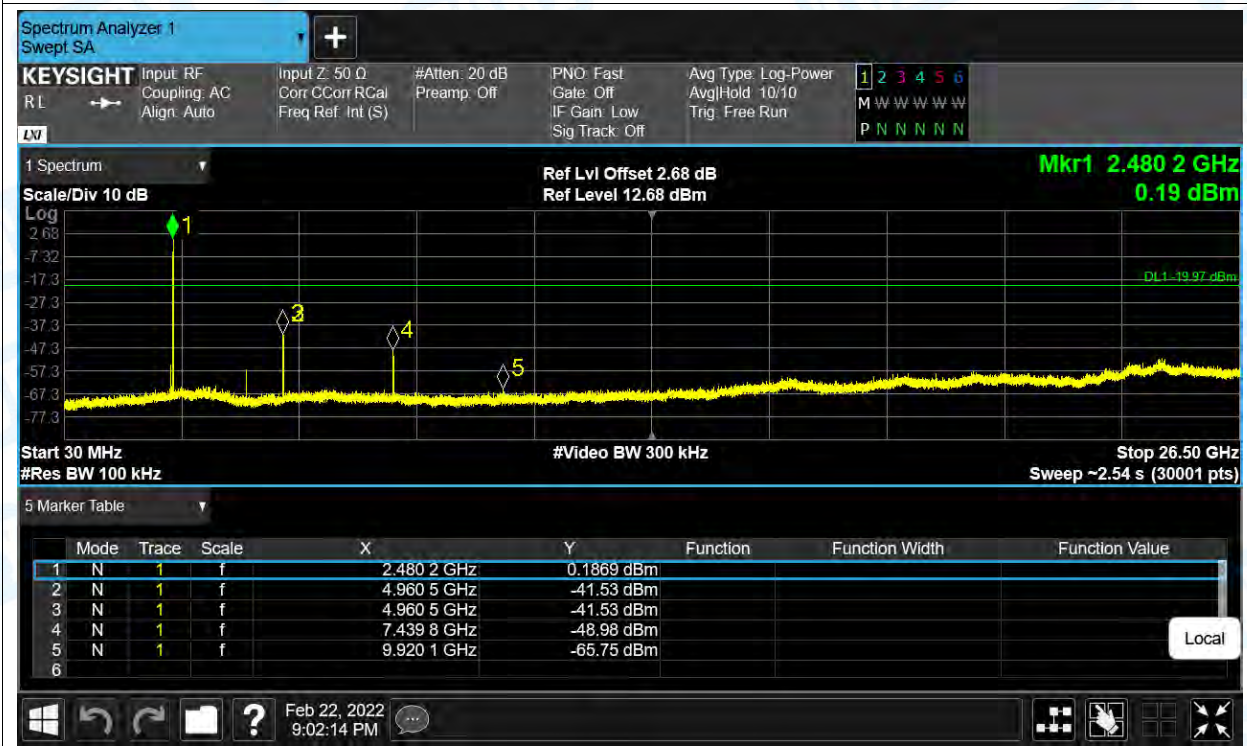
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



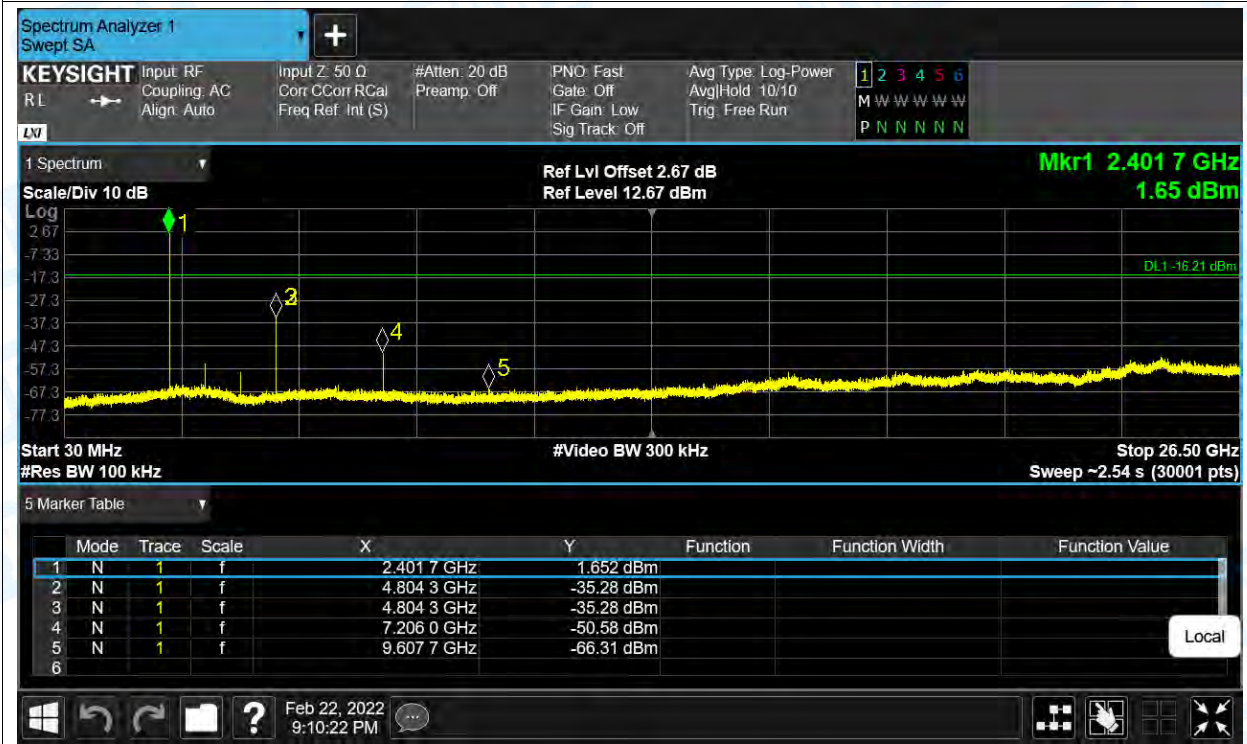
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



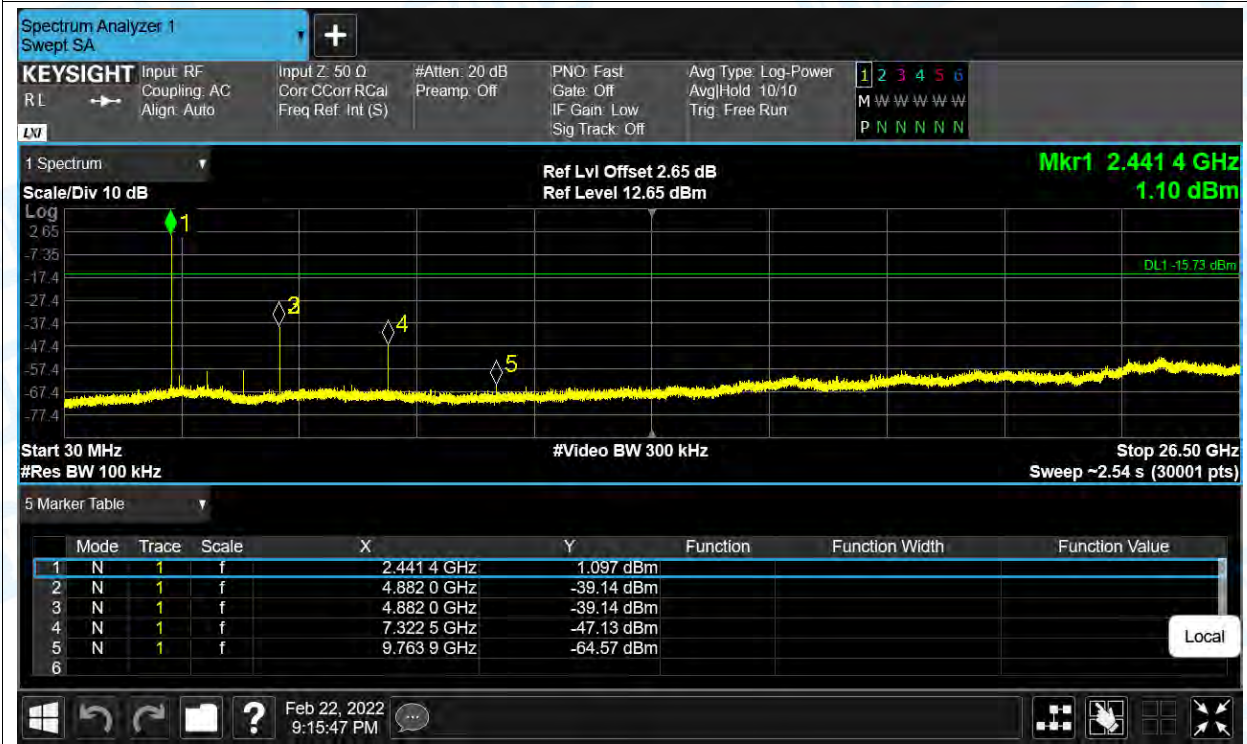
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission

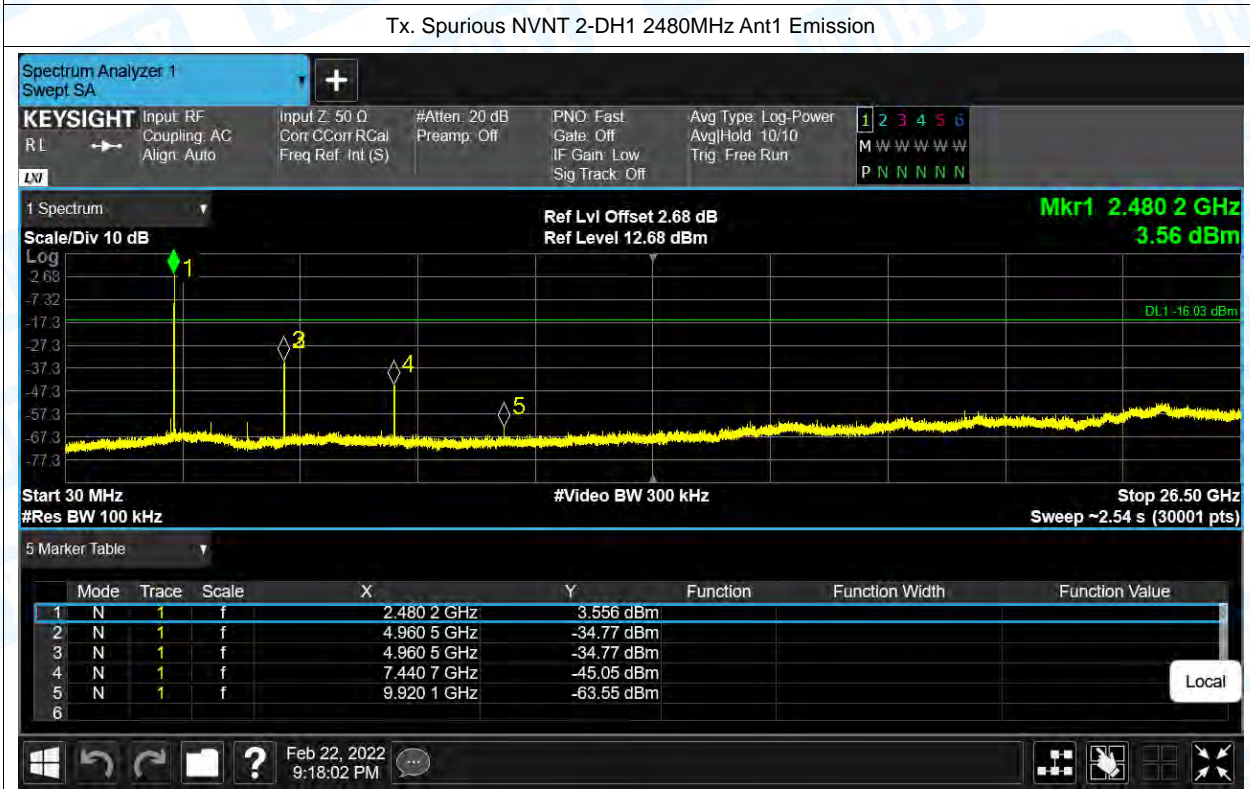
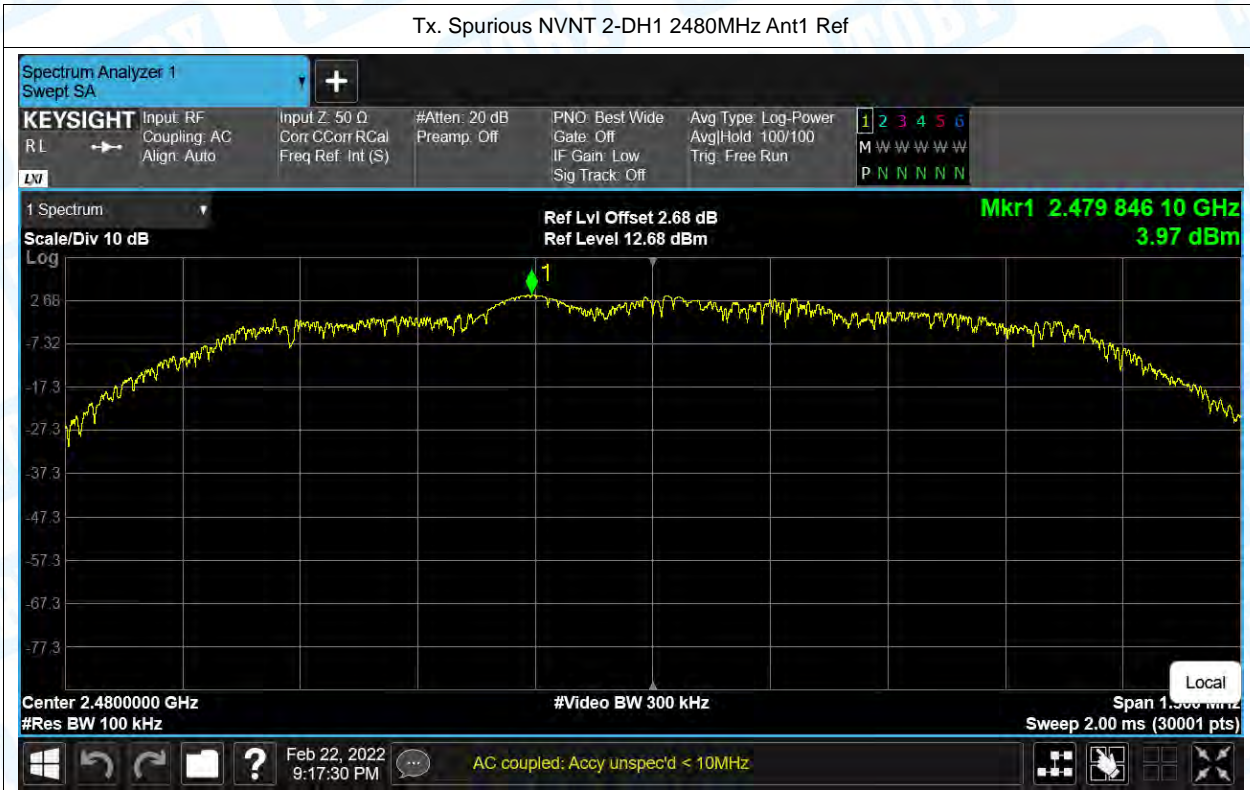


Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission

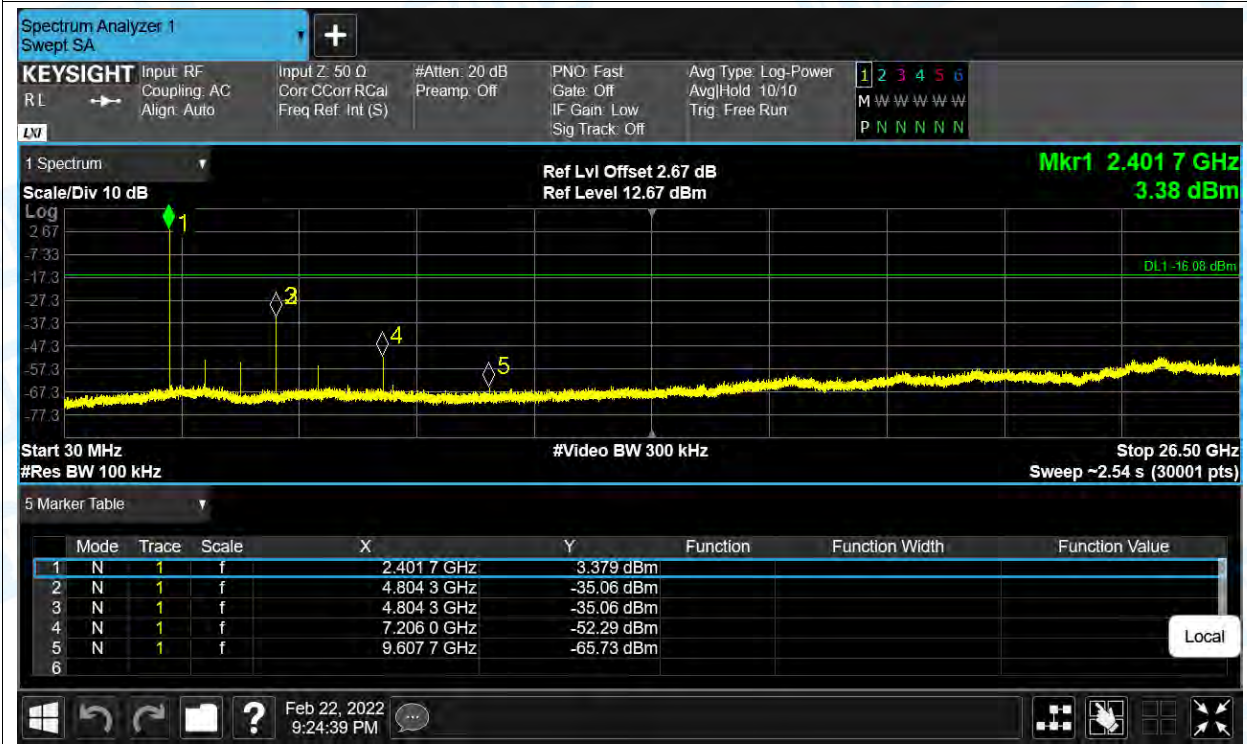




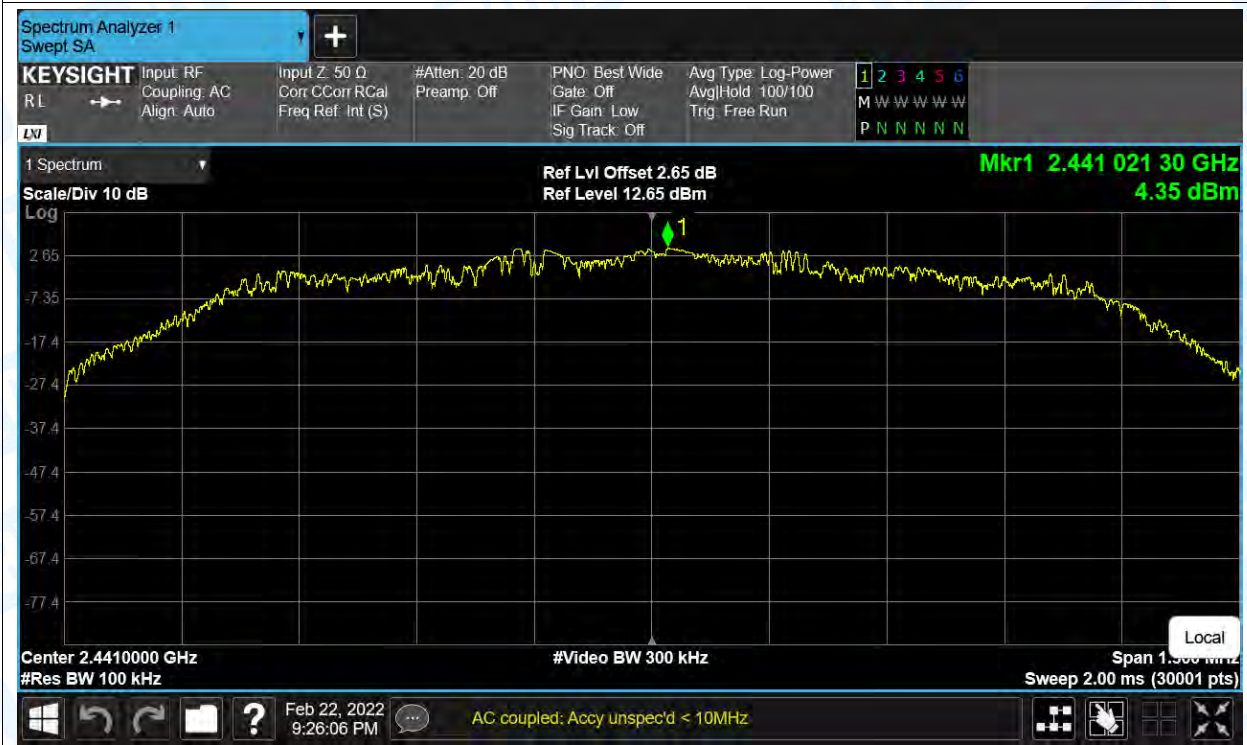
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



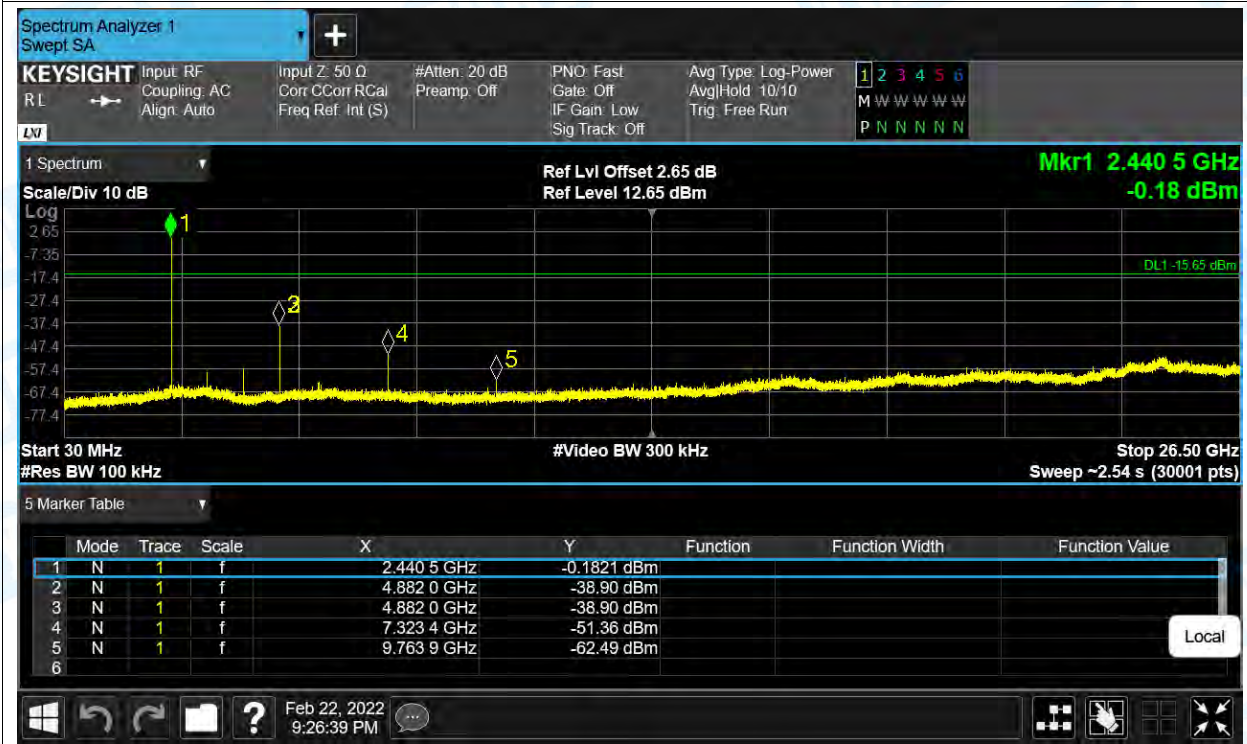
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



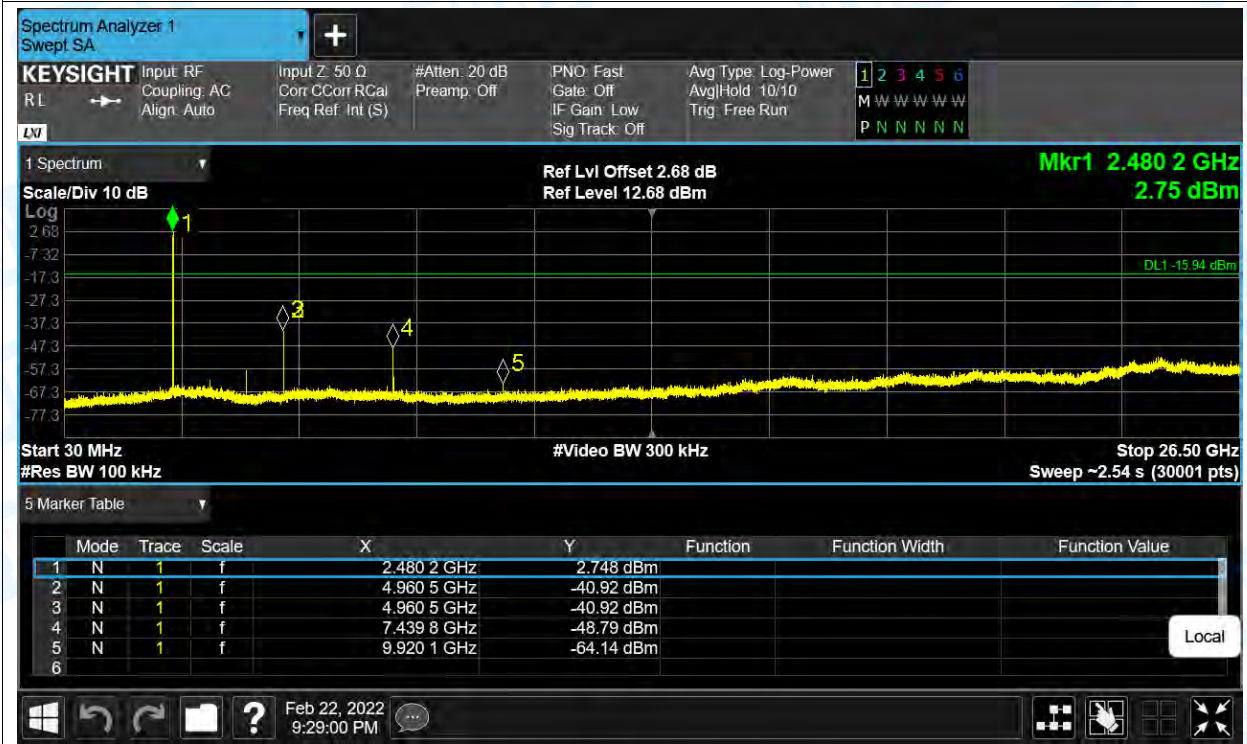
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

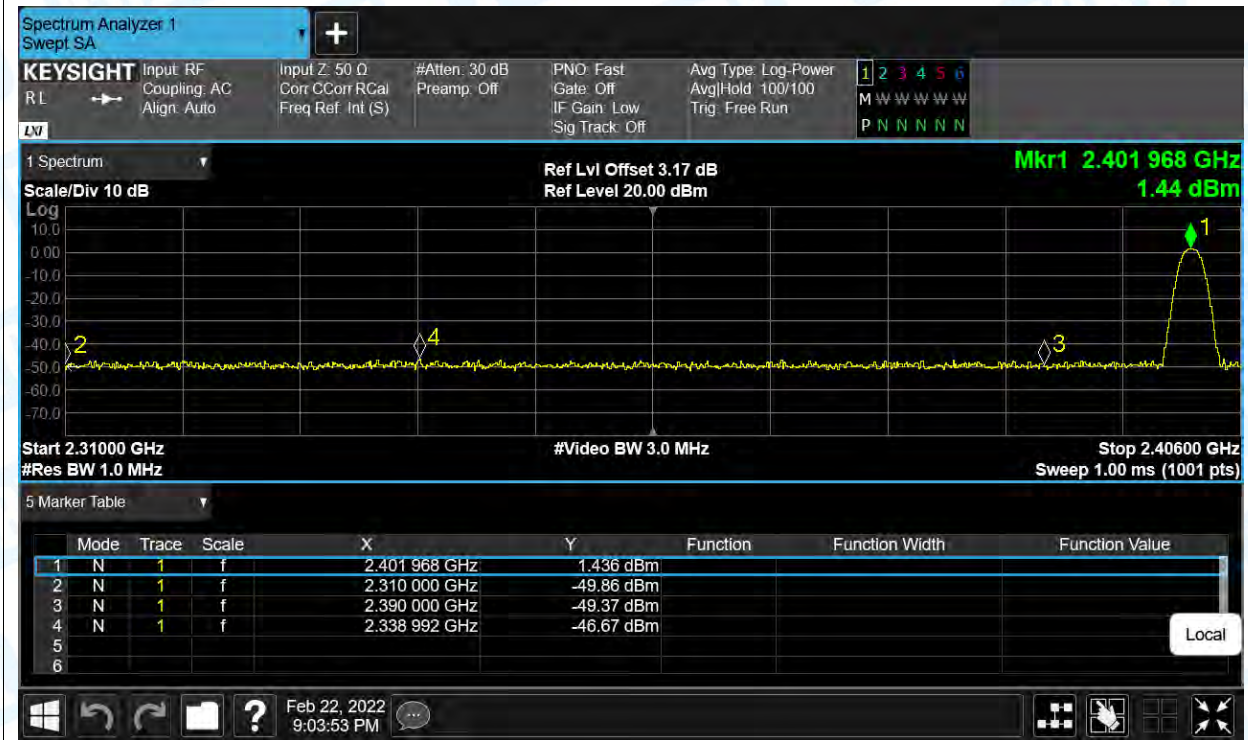


Restrict Band

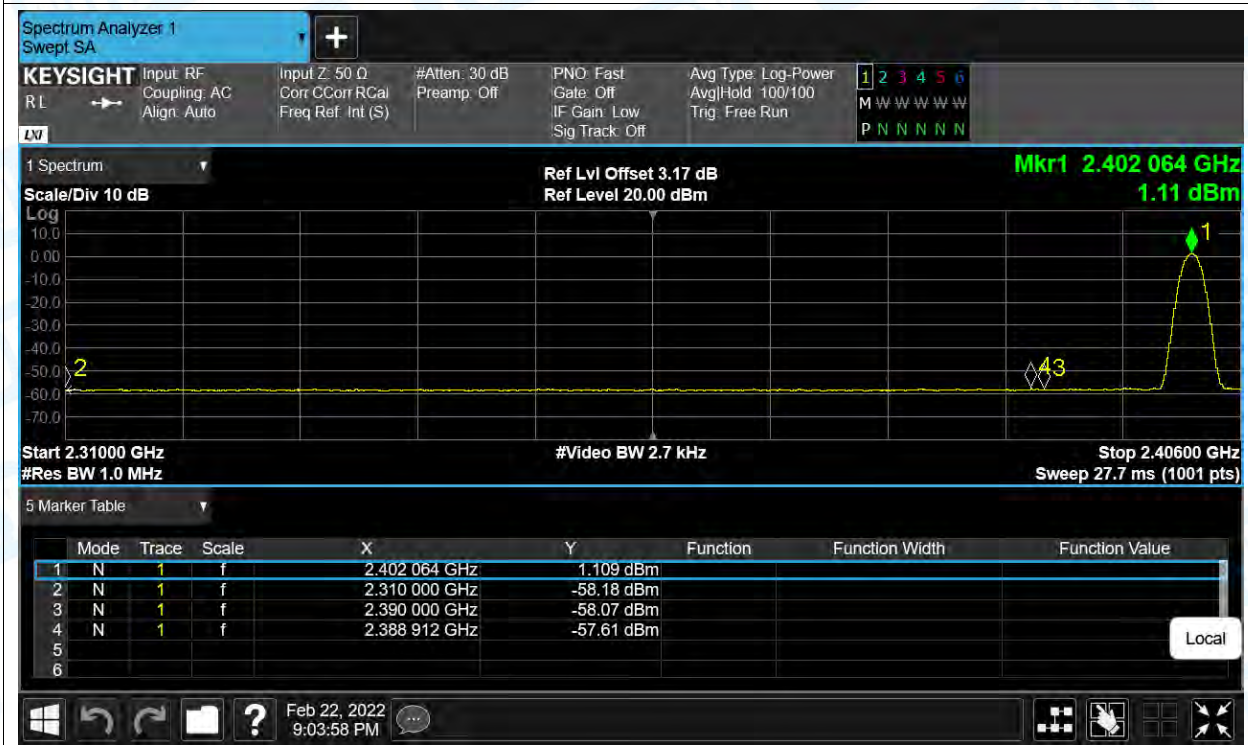
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-49.86	2	47.4	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-58.18	2	39.08	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2338.992	-46.67	2	50.59	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2388.912	-57.61	2	39.65	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-49.79	2	47.47	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-58.13	2	39.13	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-47.68	2	49.58	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-58.14	2	39.12	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2485.984	-46.53	2	50.73	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2484.4	-57.68	2	39.58	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-49.9	2	47.36	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-58.1	2	39.16	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-50.72	2	46.54	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-58.27	2	38.99	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2338.032	-46.21	2	51.05	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2387.76	-57.67	2	39.59	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-49.9	2	47.36	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-57.76	2	39.5	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-48.78	2	48.48	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-57.54	2	39.72	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2485.384	-46.09	2	51.17	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2485.288	-57.23	2	40.03	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-49.02	2	48.24	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-58.04	2	39.22	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-49.56	2	47.7	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-58.31	2	38.95	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2372.88	-46.35	2	50.91	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2384.688	-57.53	2	39.73	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-49.3	2	47.96	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-57.76	2	39.5	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-48.48	2	48.78	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-57.6	2	39.66	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2491.36	-46.08	2	51.18	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2485.12	-57.06	2	40.2	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-48.52	2	48.74	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-57.7	2	39.56	Average	54	Pass

Test Graphs

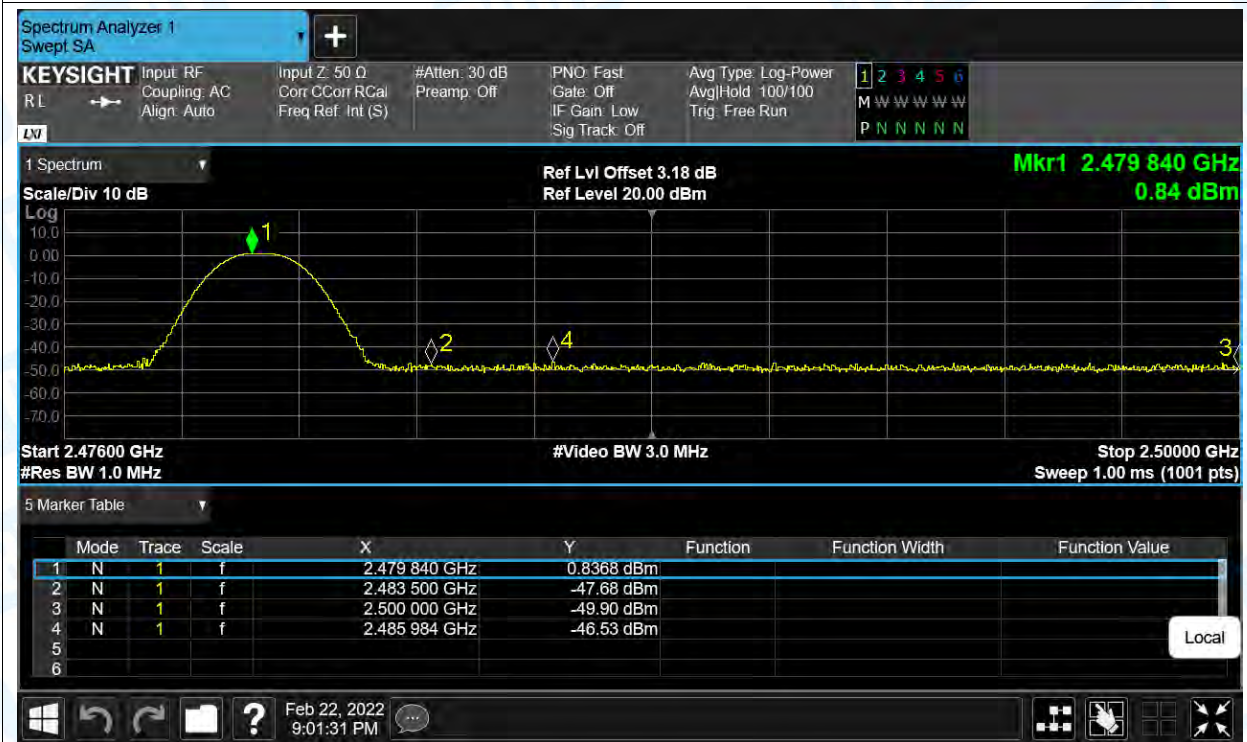
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



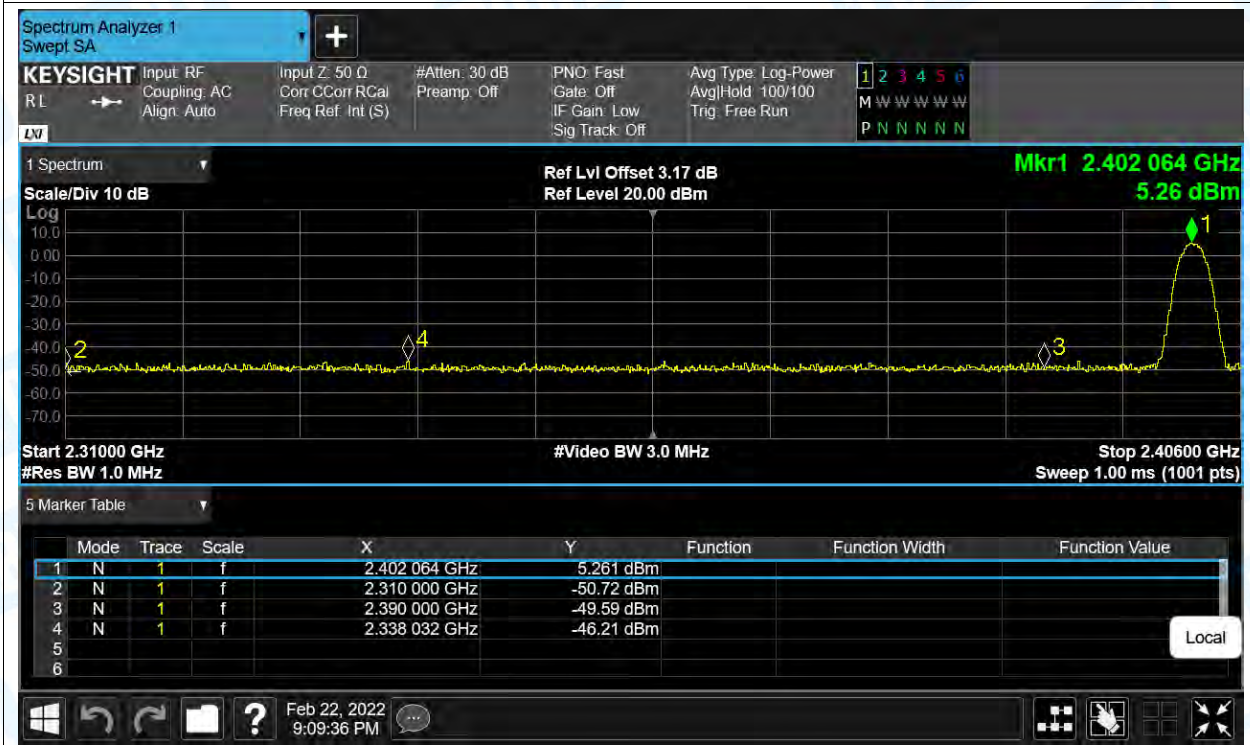
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



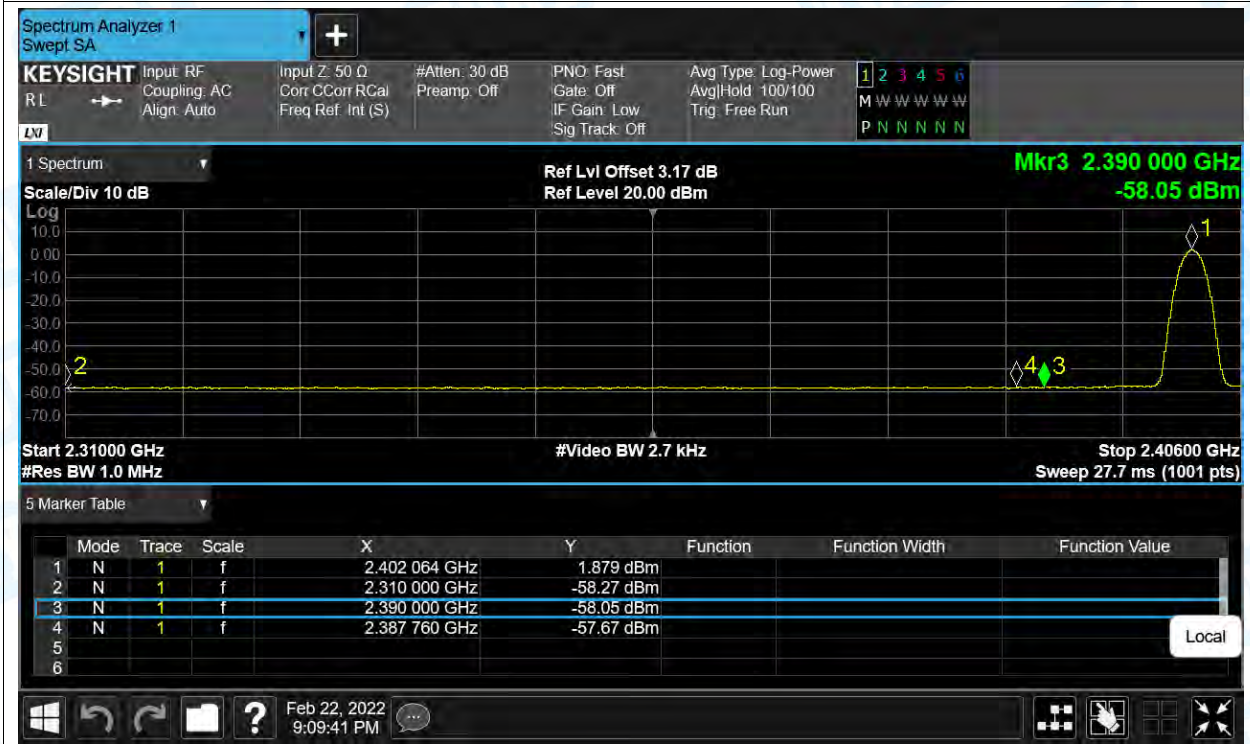
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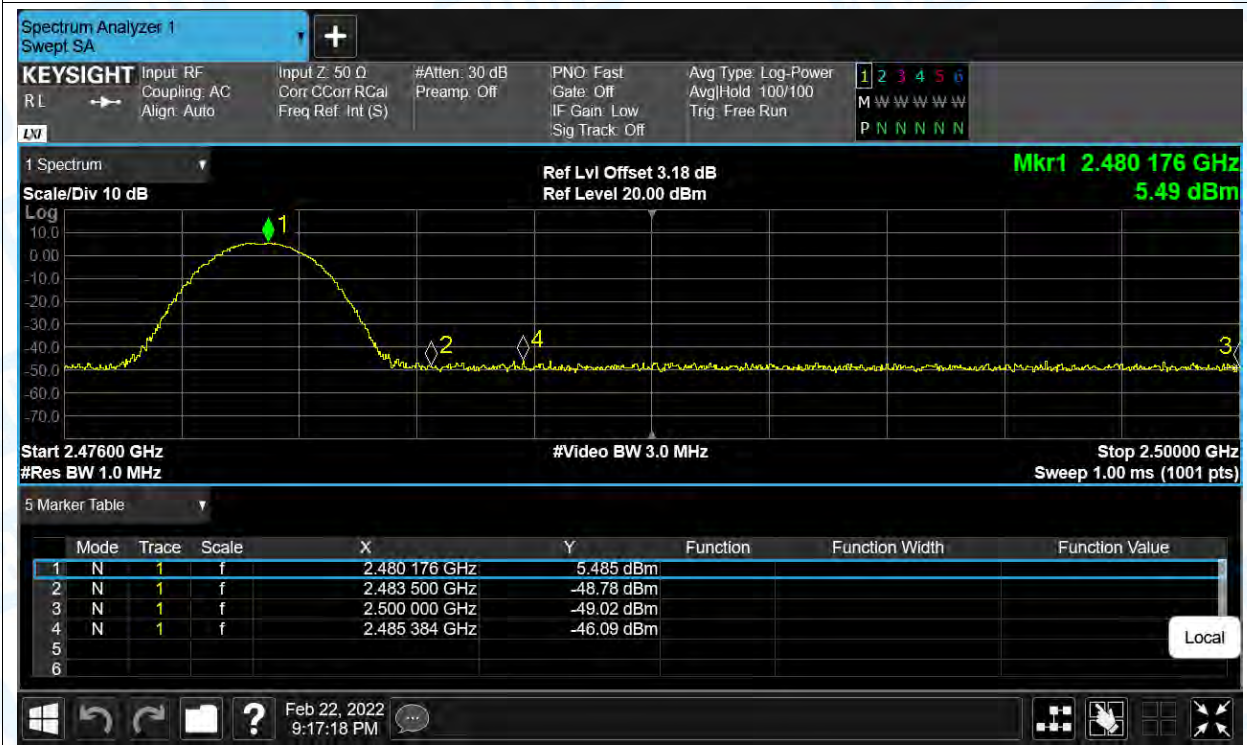
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



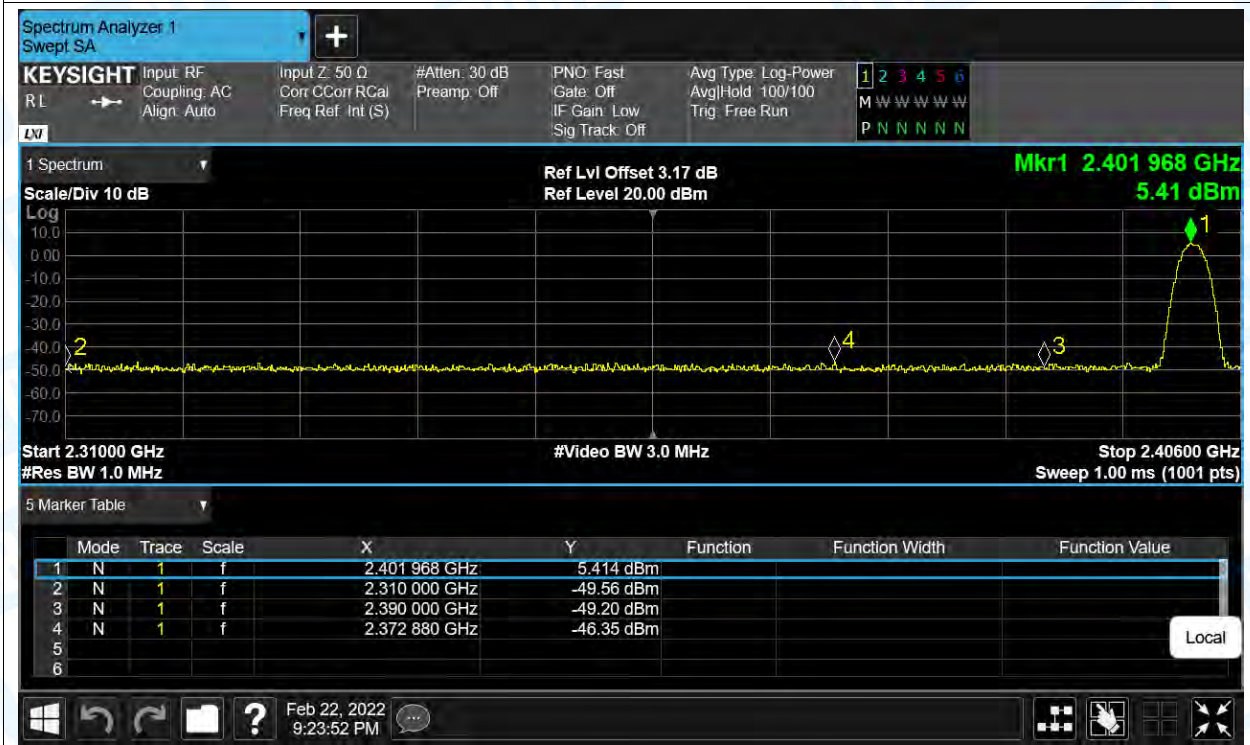
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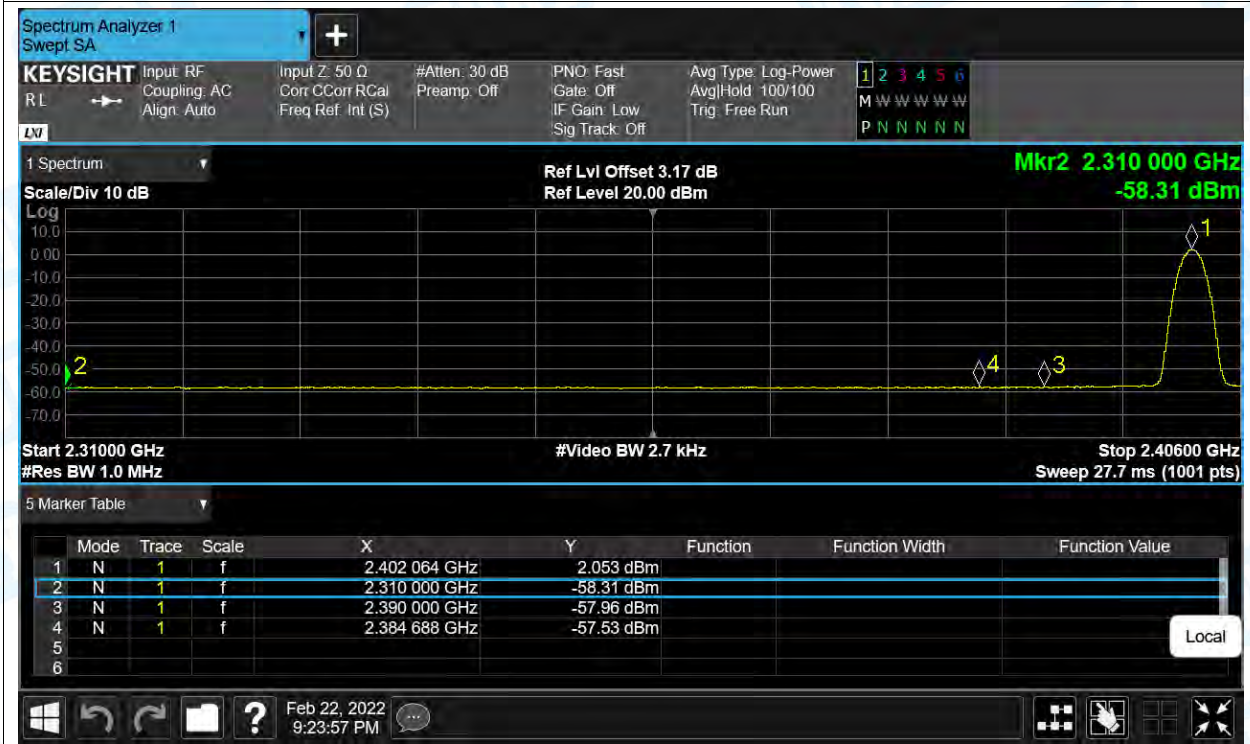
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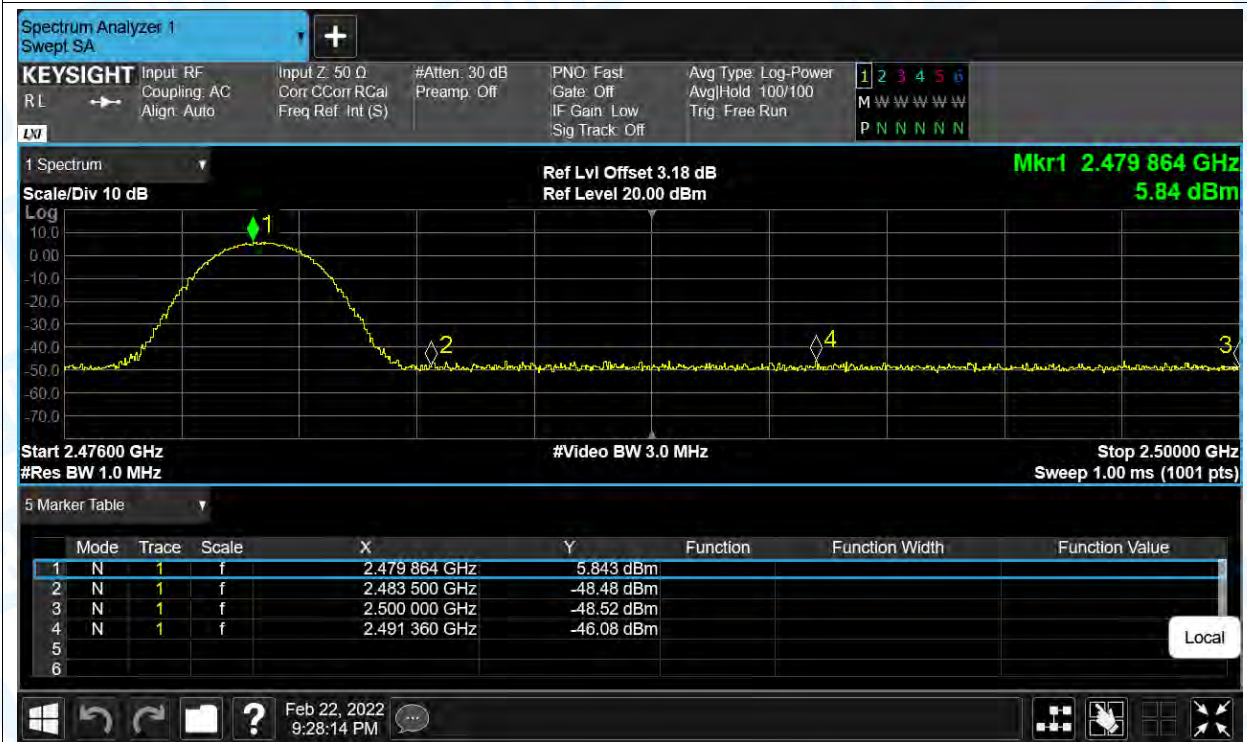
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



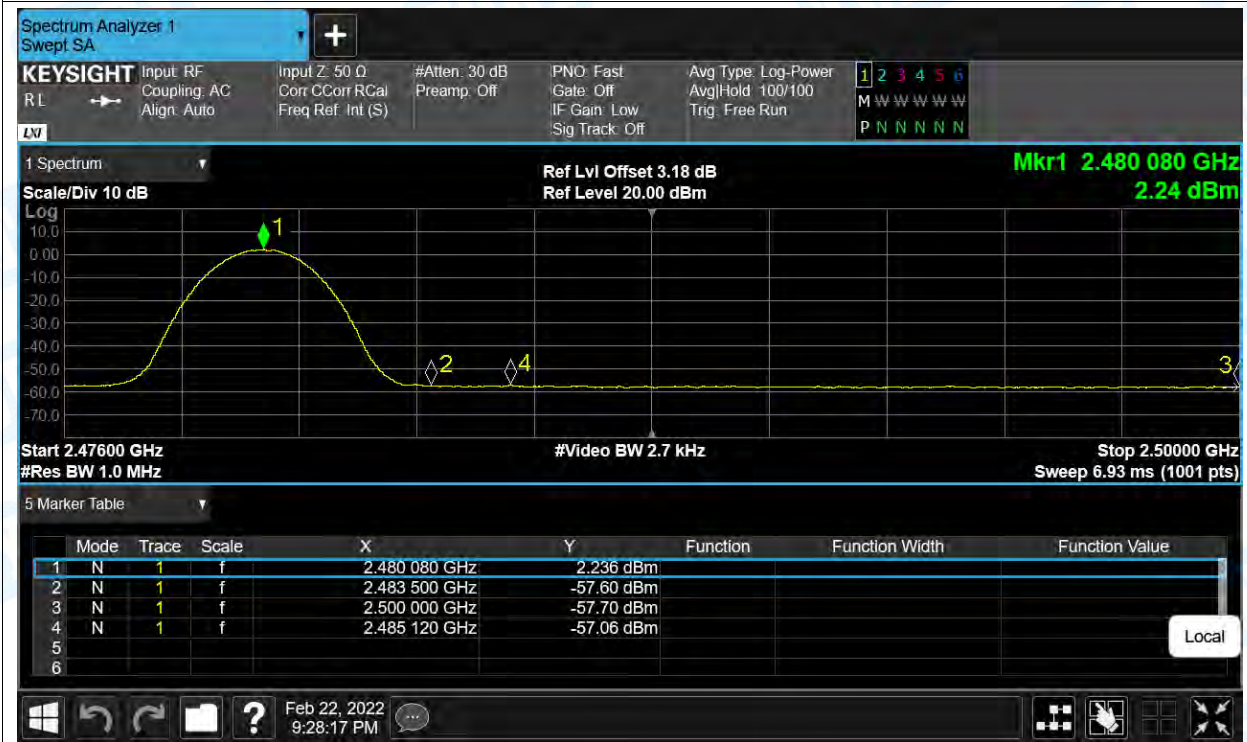
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Average



Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.384	122.88	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.644	263.04	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.891	308.373	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.391	125.12	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.642	262.72	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.894	308.693	31600	400	Pass

