

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

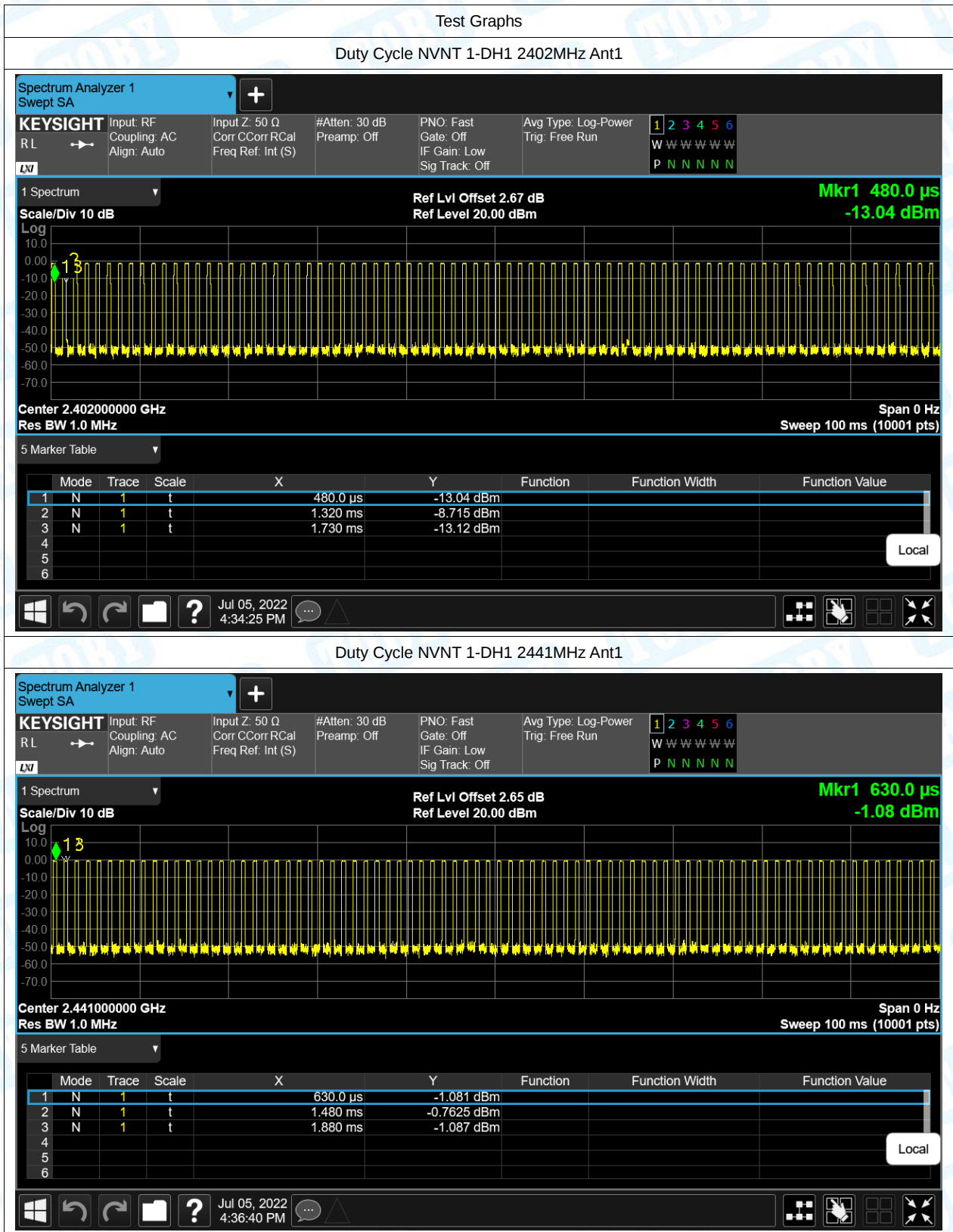
General Description of EUT	
Product Name:	Open Ear Headphones
Test Model:	S300
Sample ID:	RW-C-202204-0412-4-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202204-0412-4.	

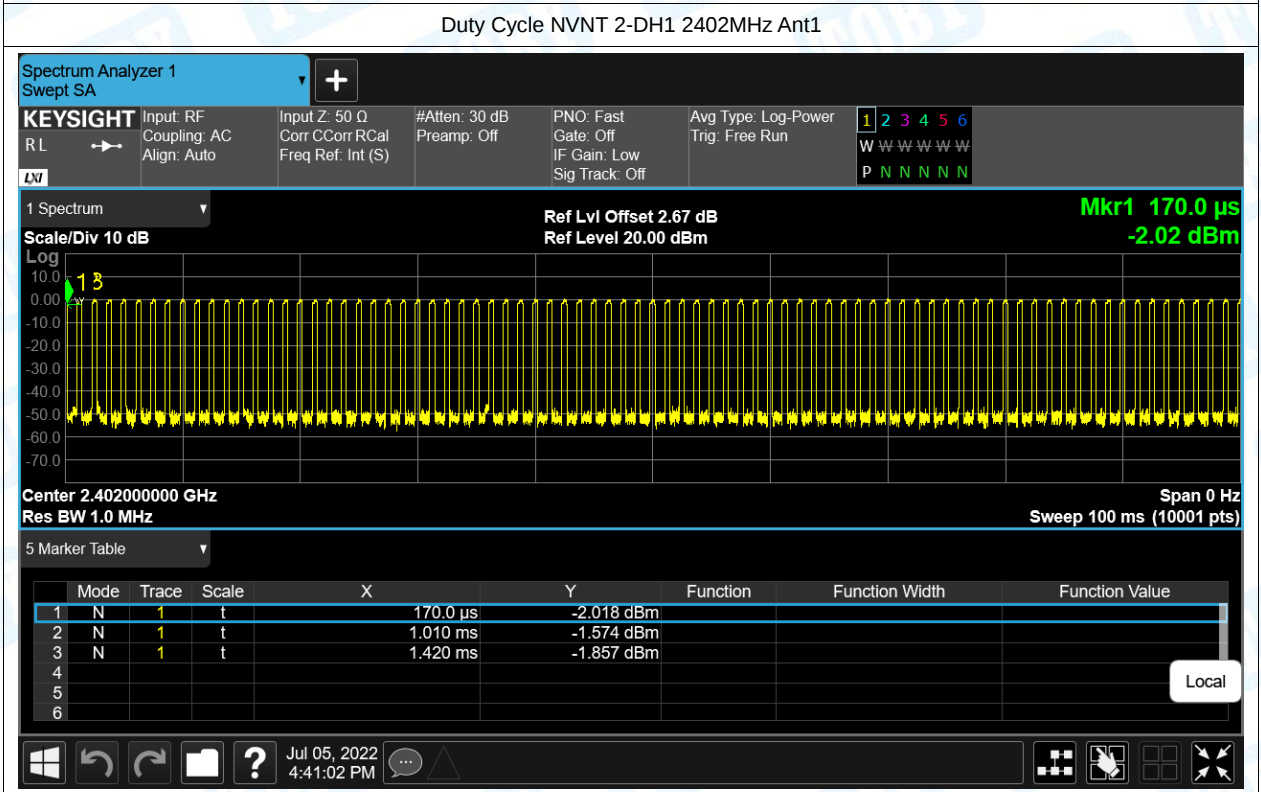
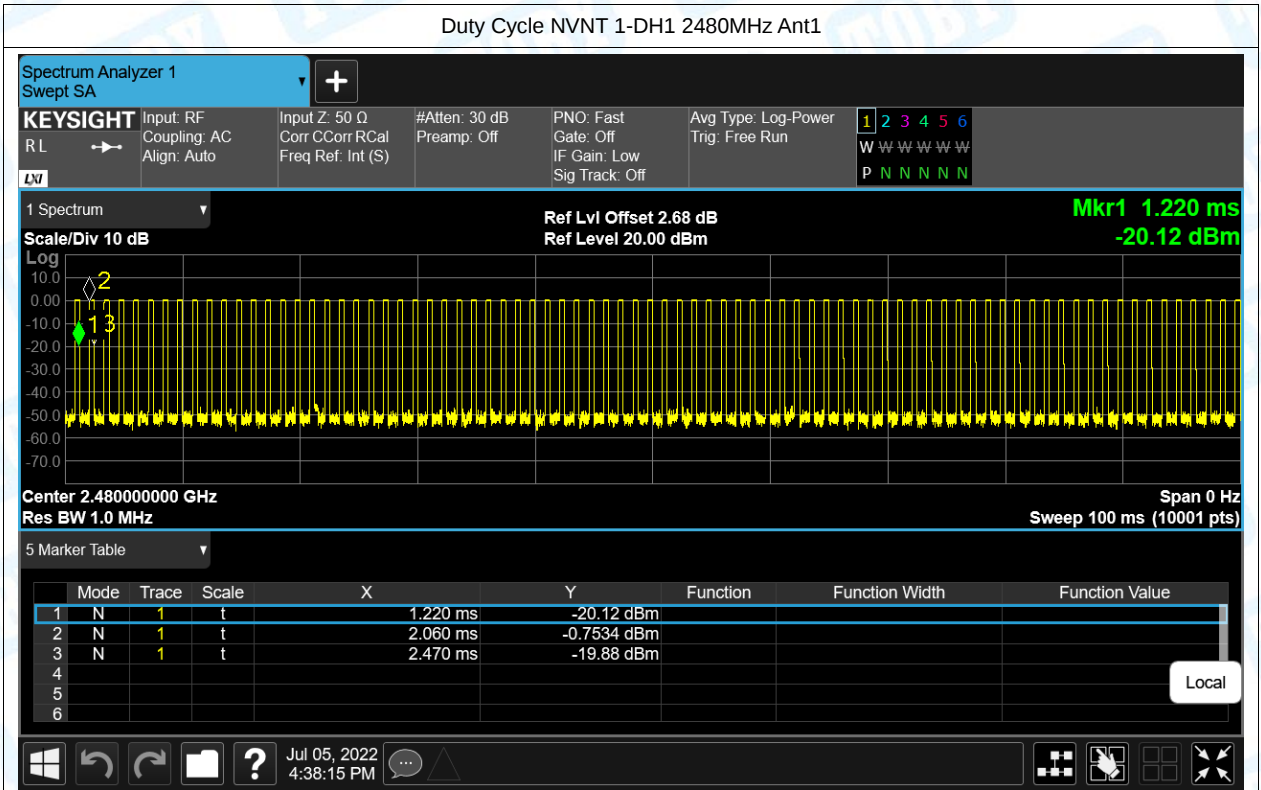
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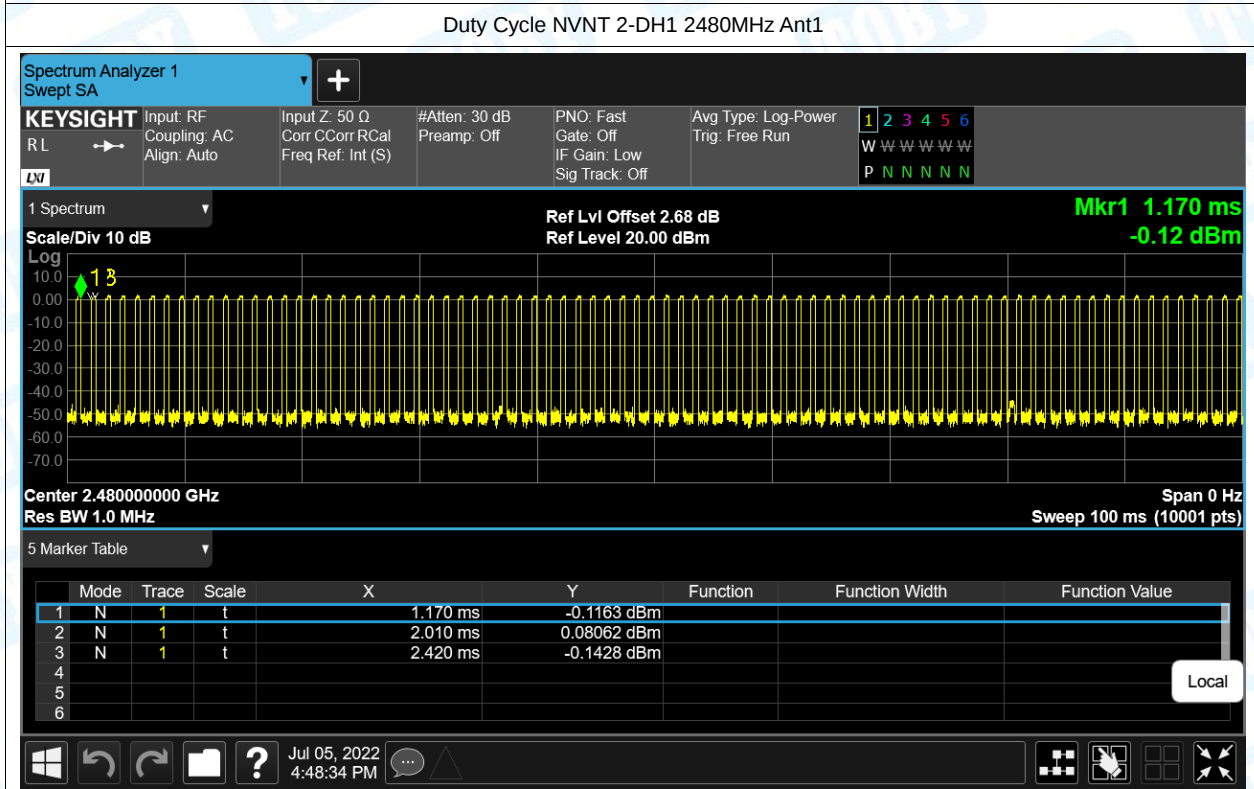
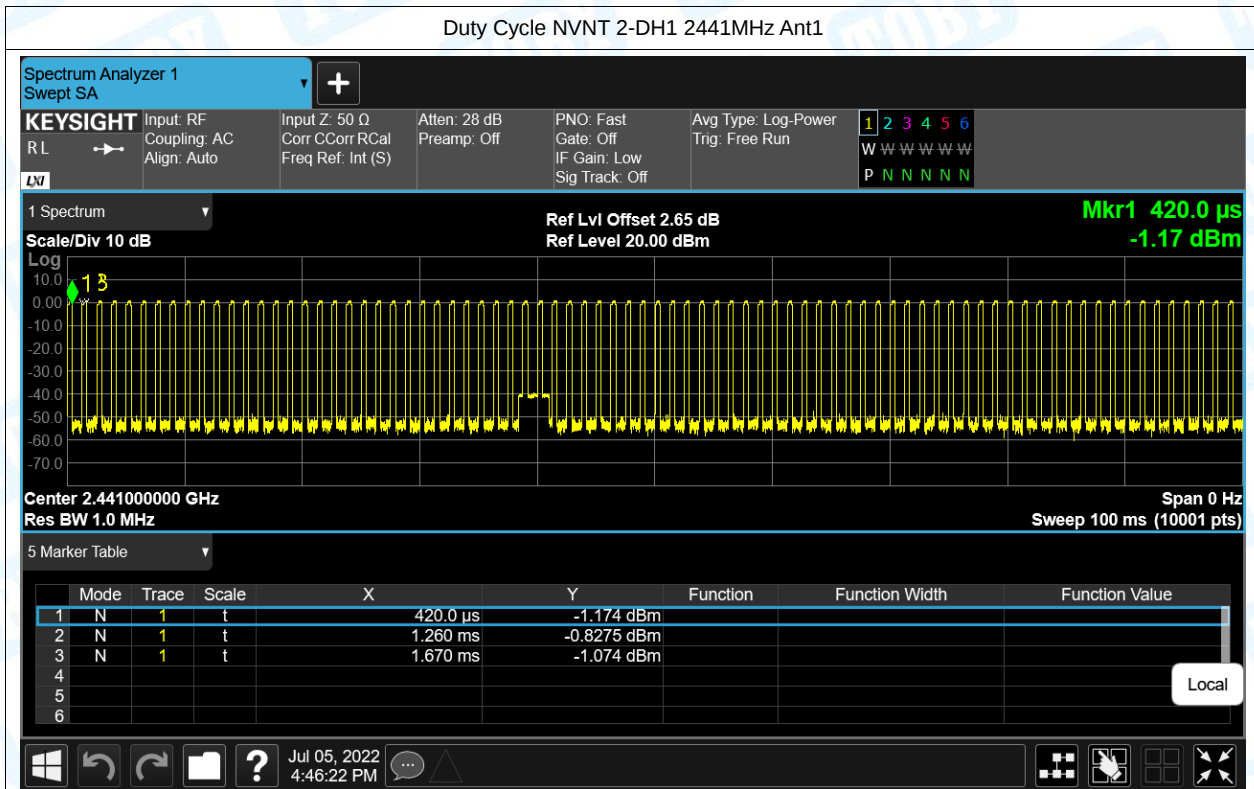
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1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	33.6	4.74	2.44
NVNT	1-DH1	2441	Ant1	32.8	4.84	2.5
NVNT	1-DH1	2480	Ant1	33.29	4.78	2.44
NVNT	2-DH1	2402	Ant1	33.61	4.74	2.44
NVNT	2-DH1	2441	Ant1	33.6	4.74	2.44
NVNT	2-DH1	2480	Ant1	33.6	4.74	2.44

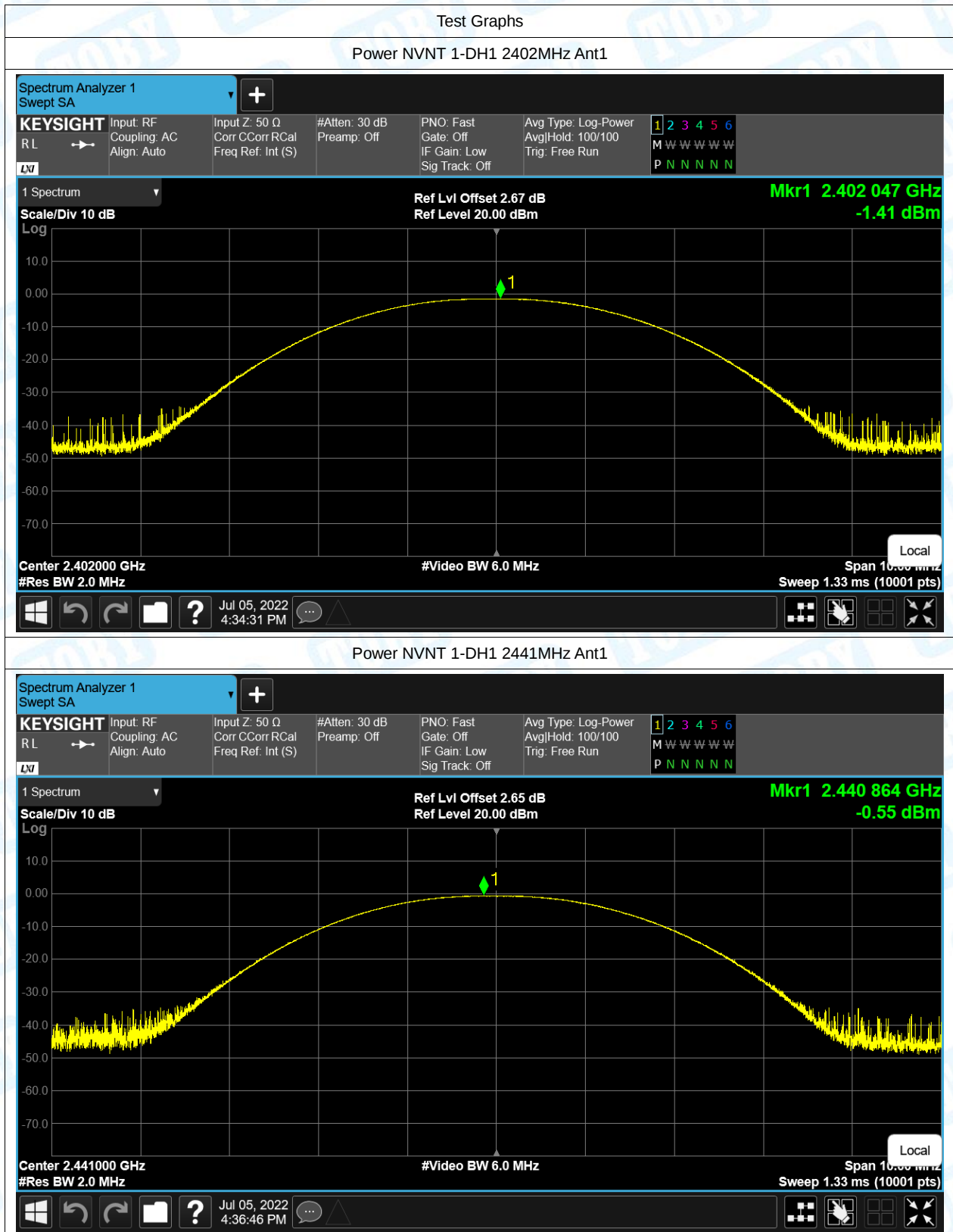


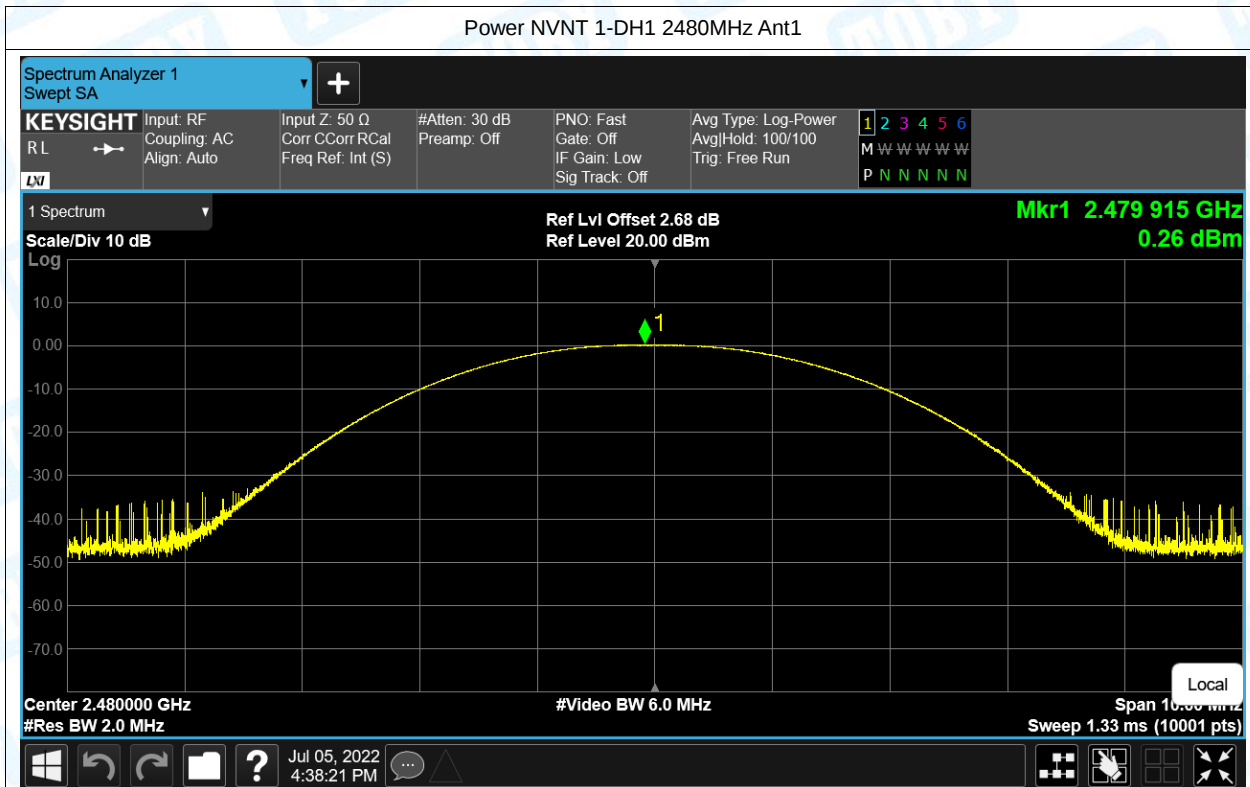


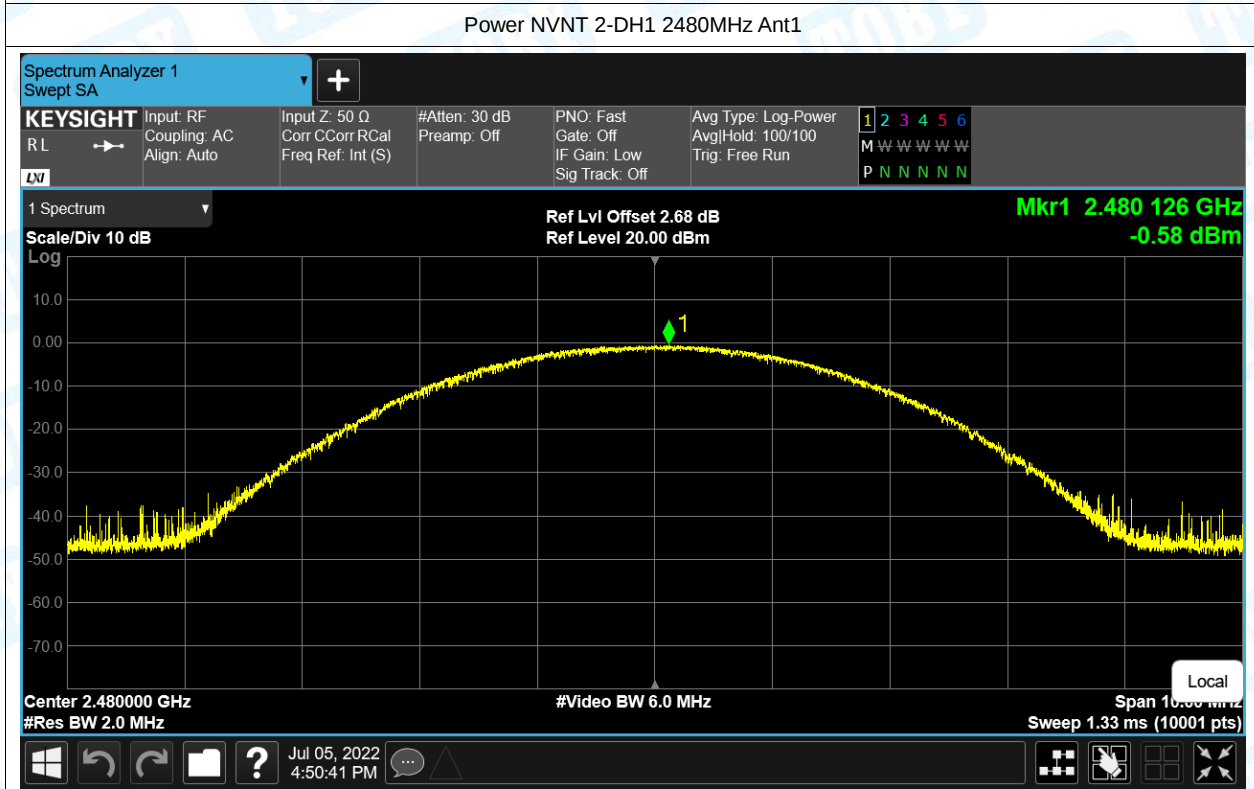
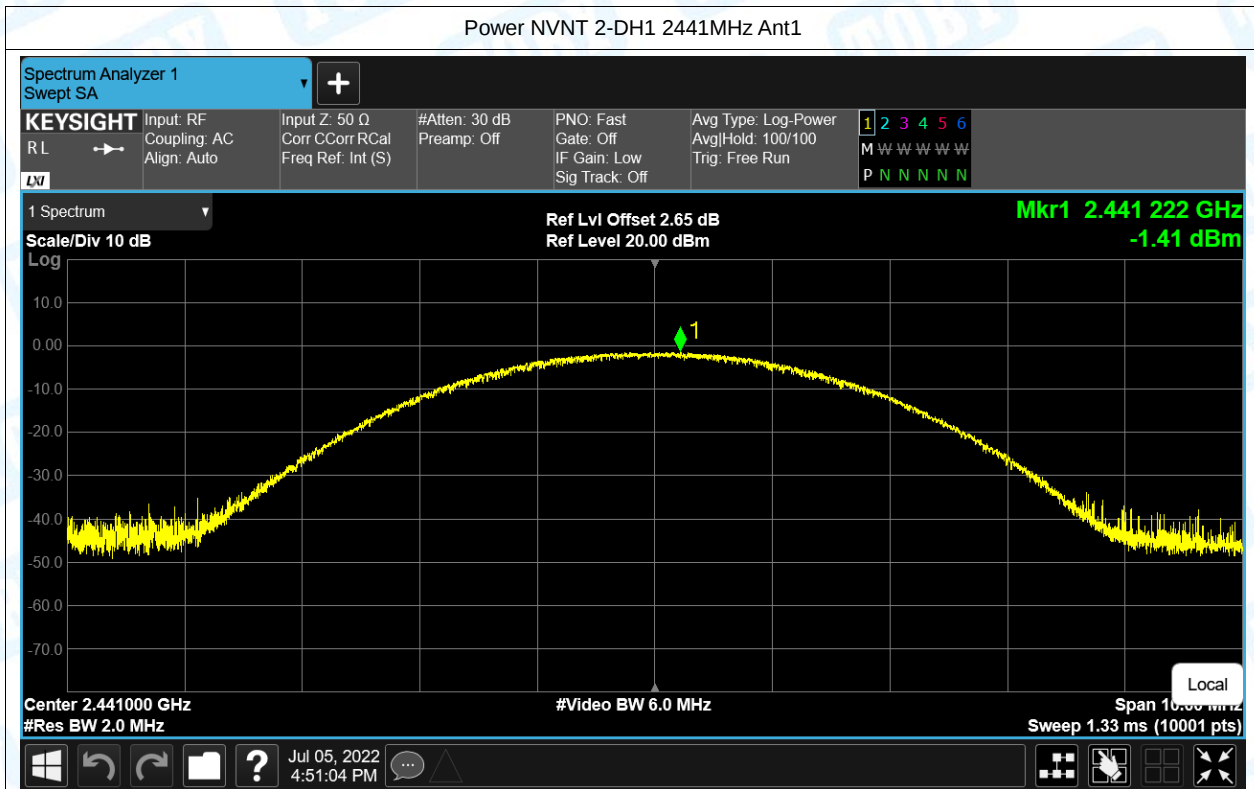


2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-1.41	21	Pass
NVNT	1-DH1	2441	Ant1	-0.55	21	Pass
NVNT	1-DH1	2480	Ant1	0.26	21	Pass
NVNT	2-DH1	2402	Ant1	0.64	21	Pass
NVNT	2-DH1	2441	Ant1	-1.41	21	Pass
NVNT	2-DH1	2480	Ant1	-0.58	21	Pass





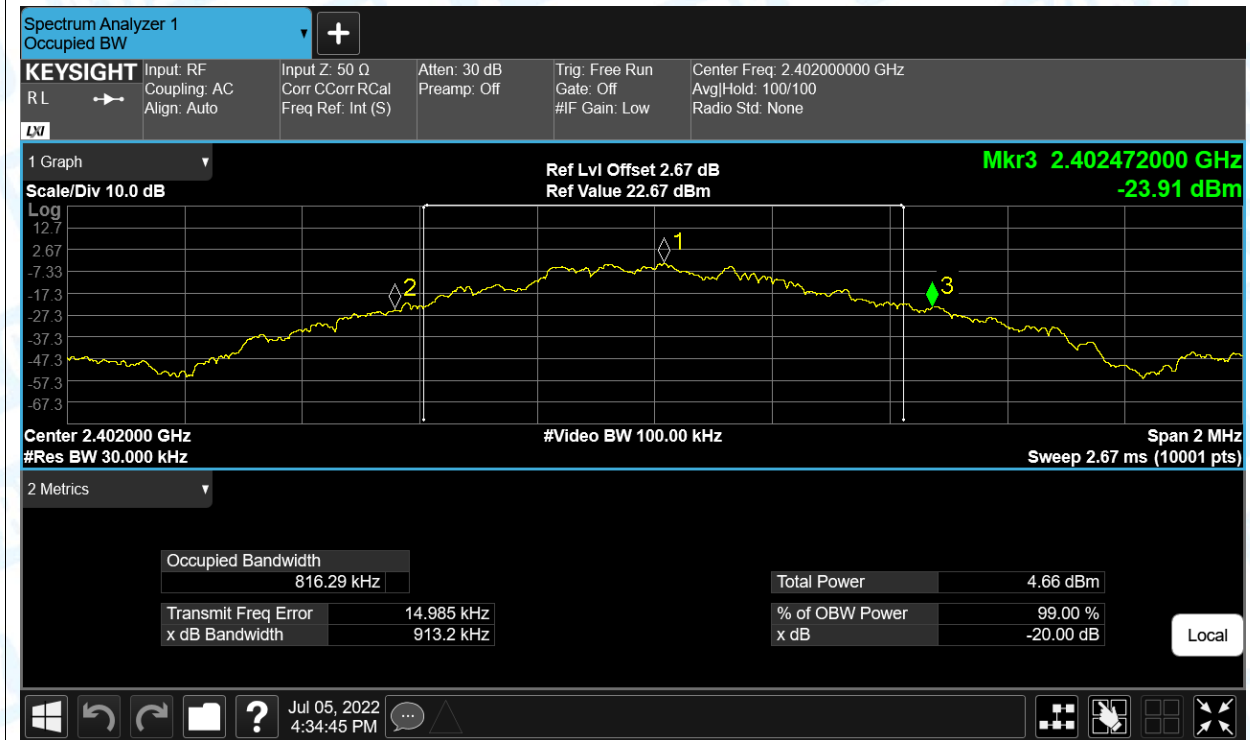


3. -20dB Bandwidth

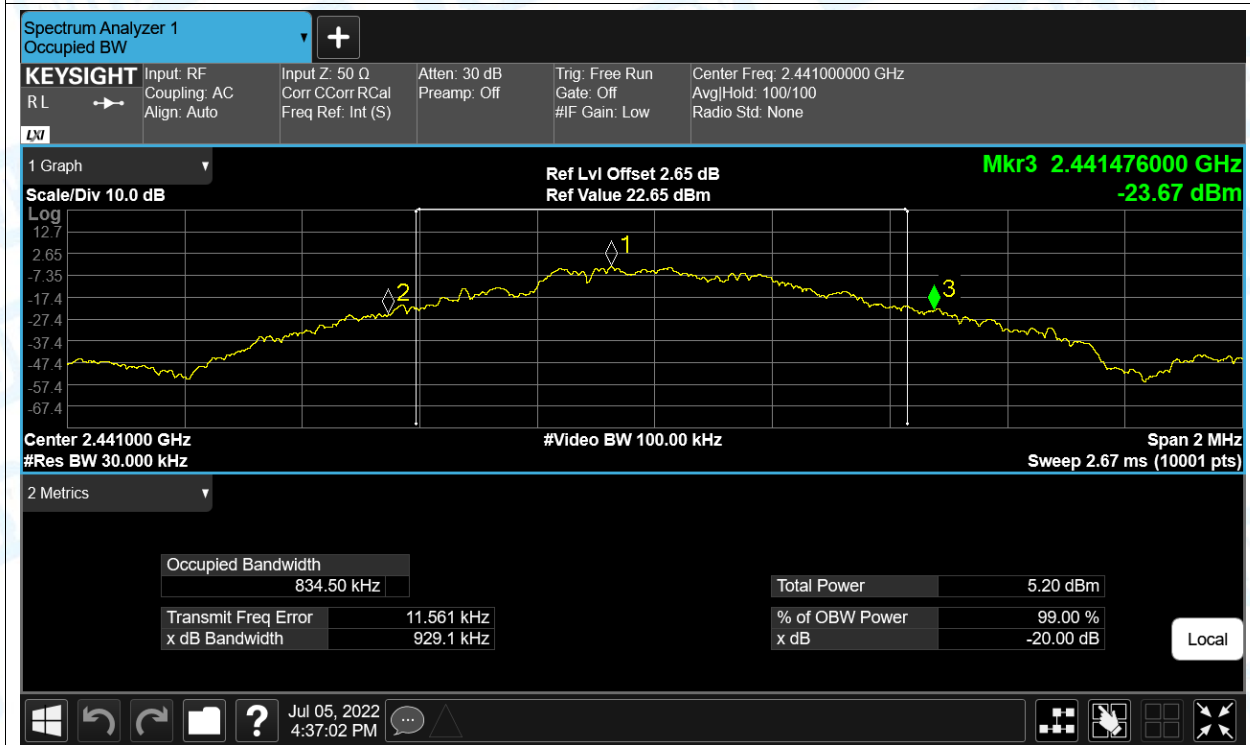
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.91	----	Pass
NVNT	1-DH1	2441	Ant1	0.93	----	Pass
NVNT	1-DH1	2480	Ant1	0.92	----	Pass
NVNT	2-DH1	2402	Ant1	1.25	----	Pass
NVNT	2-DH1	2441	Ant1	1.26	----	Pass
NVNT	2-DH1	2480	Ant1	1.27	----	Pass

Test Graphs

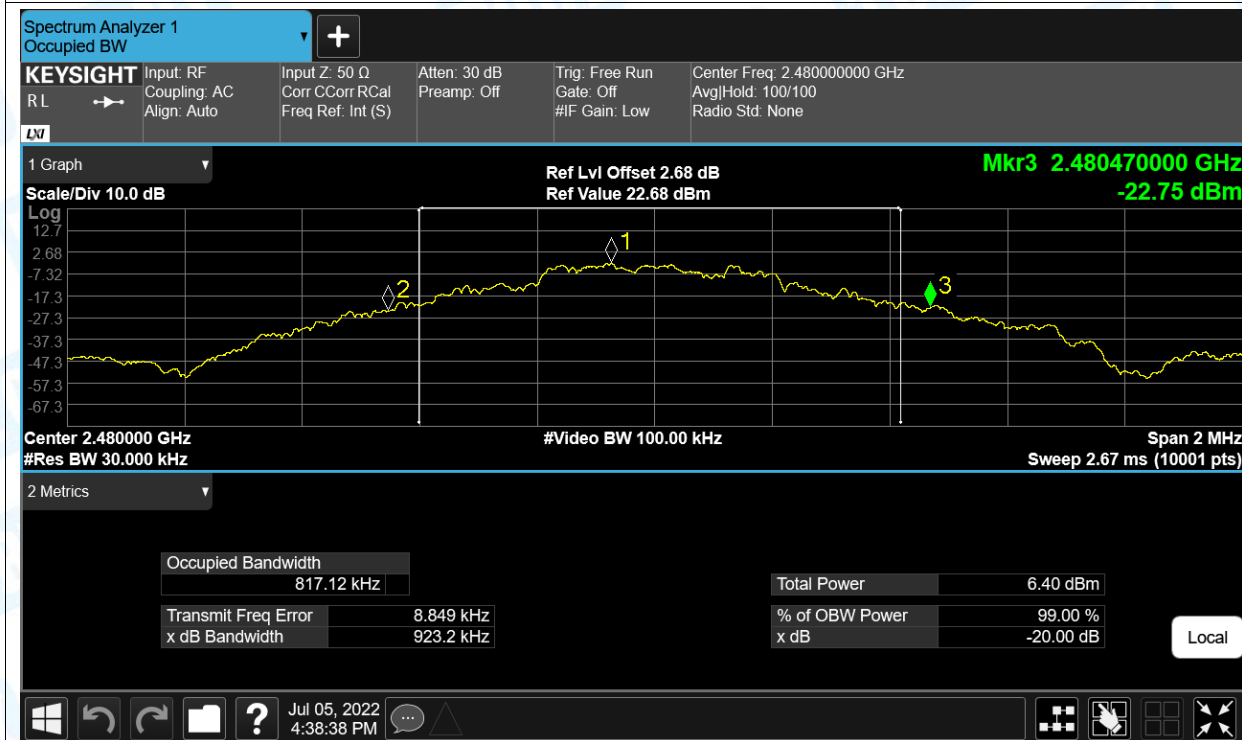
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



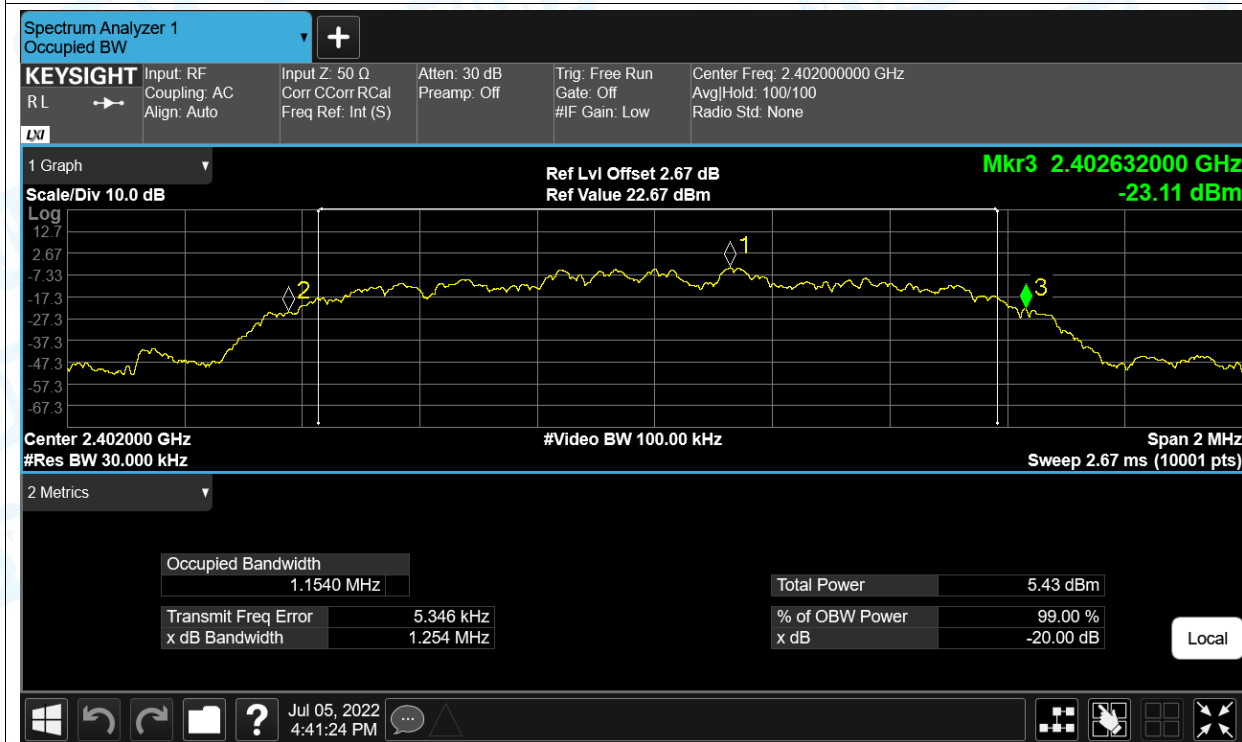
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



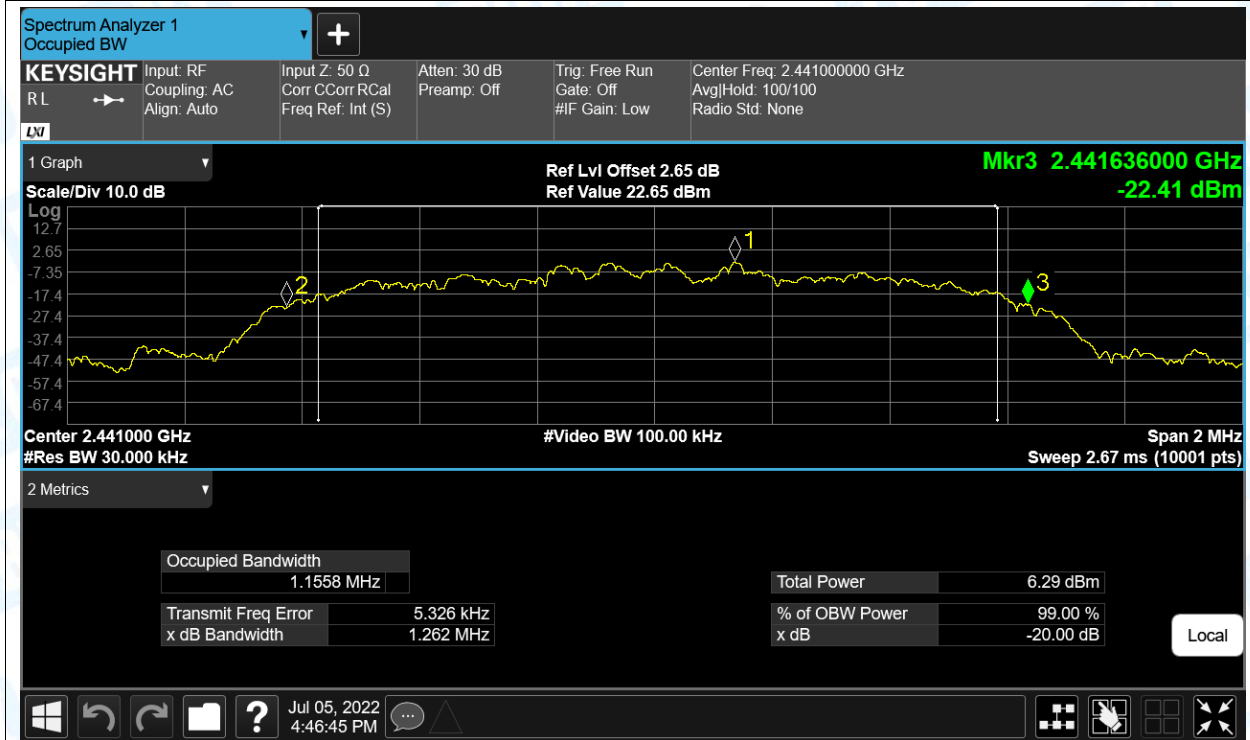
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



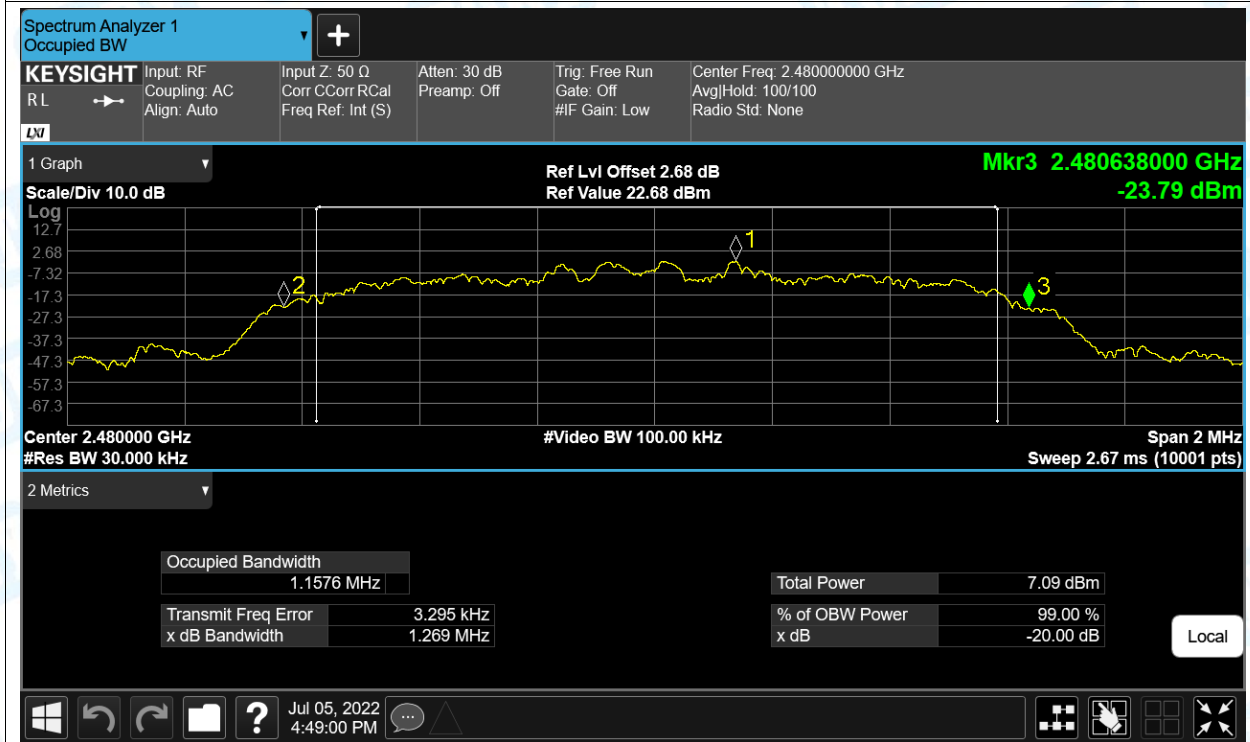
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.823
NVNT	1-DH1	2441	Ant1	0.831
NVNT	1-DH1	2480	Ant1	0.809
NVNT	2-DH1	2402	Ant1	1.156
NVNT	2-DH1	2441	Ant1	1.165
NVNT	2-DH1	2480	Ant1	1.145

Test Graphs

OBW NVNT 1-DH1 2402MHz Ant1



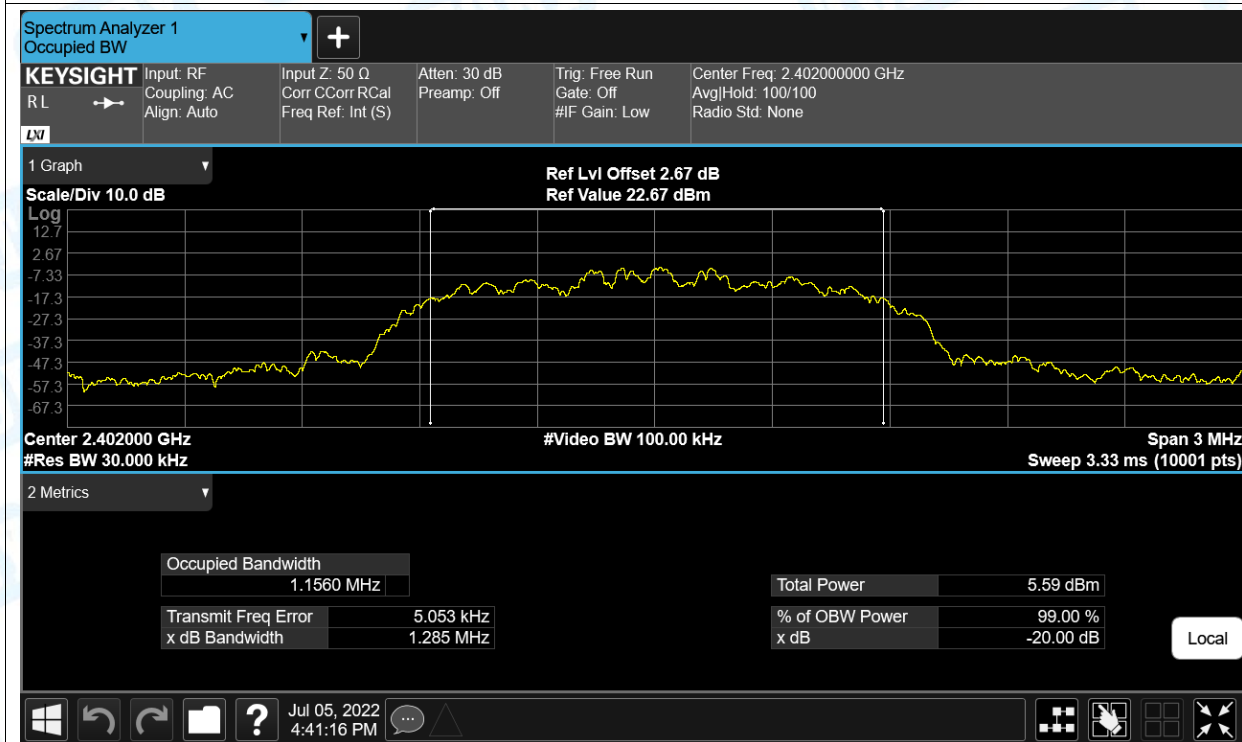
OBW NVNT 1-DH1 2441MHz Ant1



OBW NVNT 1-DH1 2480MHz Ant1



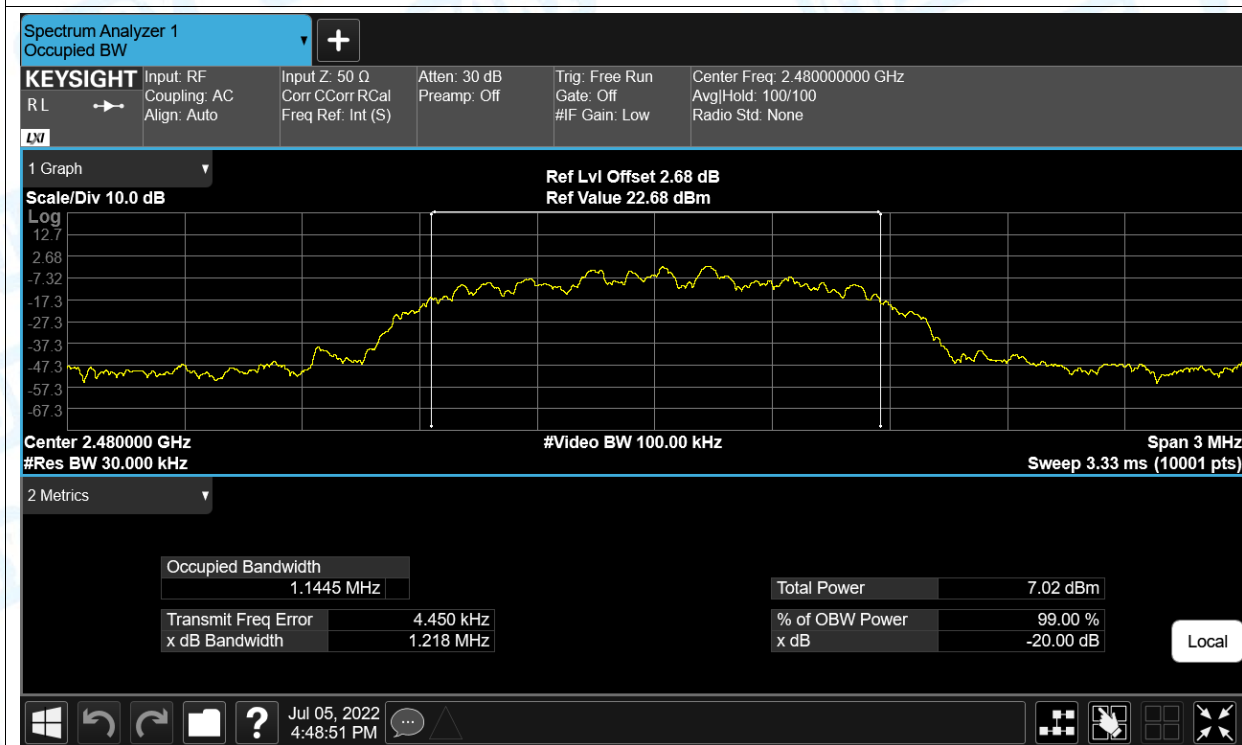
OBW NVNT 2-DH1 2402MHz Ant1



OBW NVNT 2-DH1 2441MHz Ant1

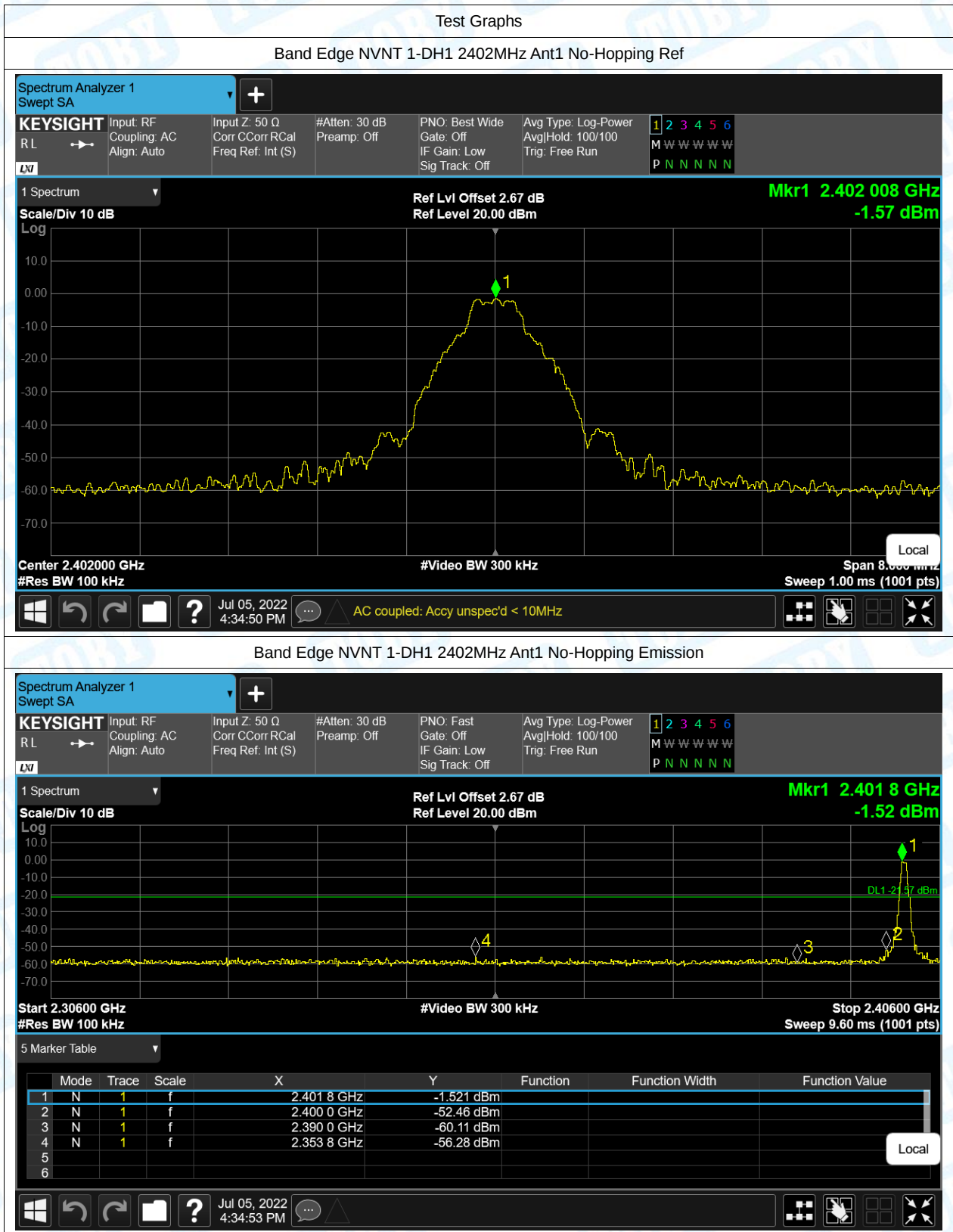


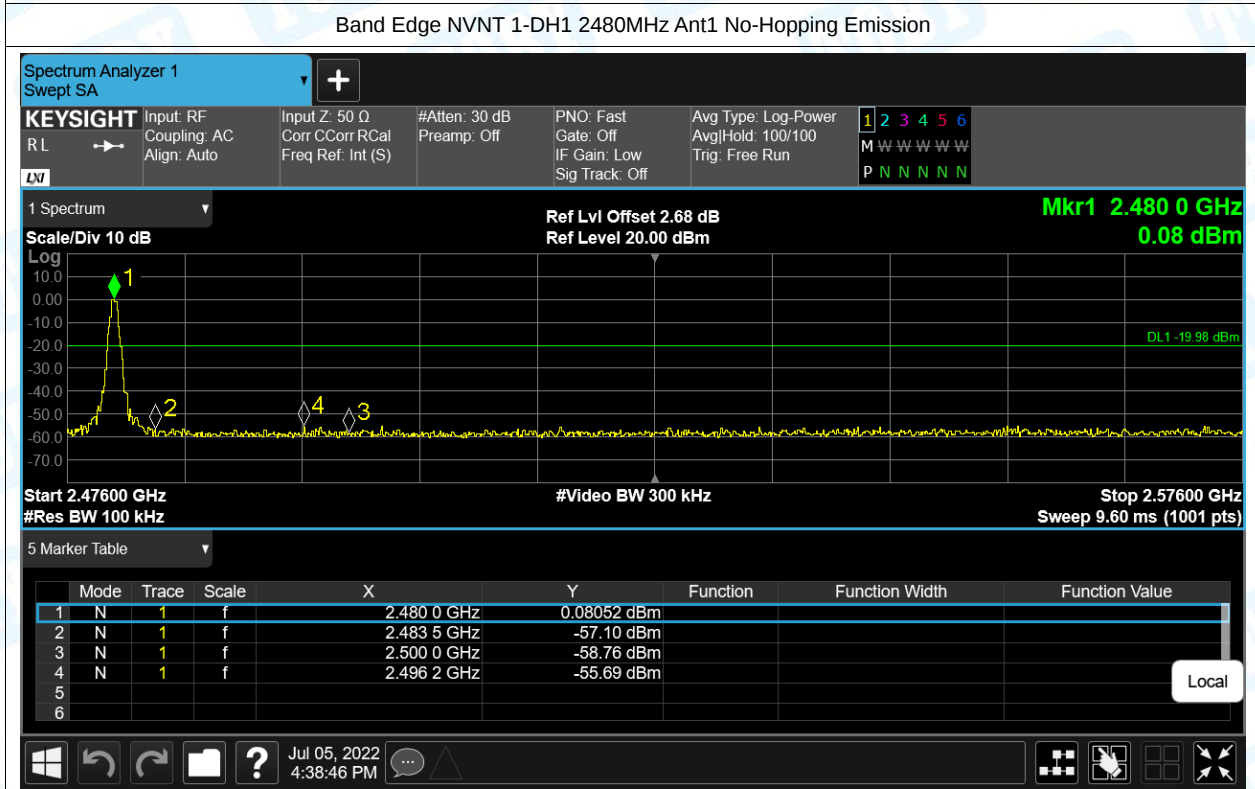
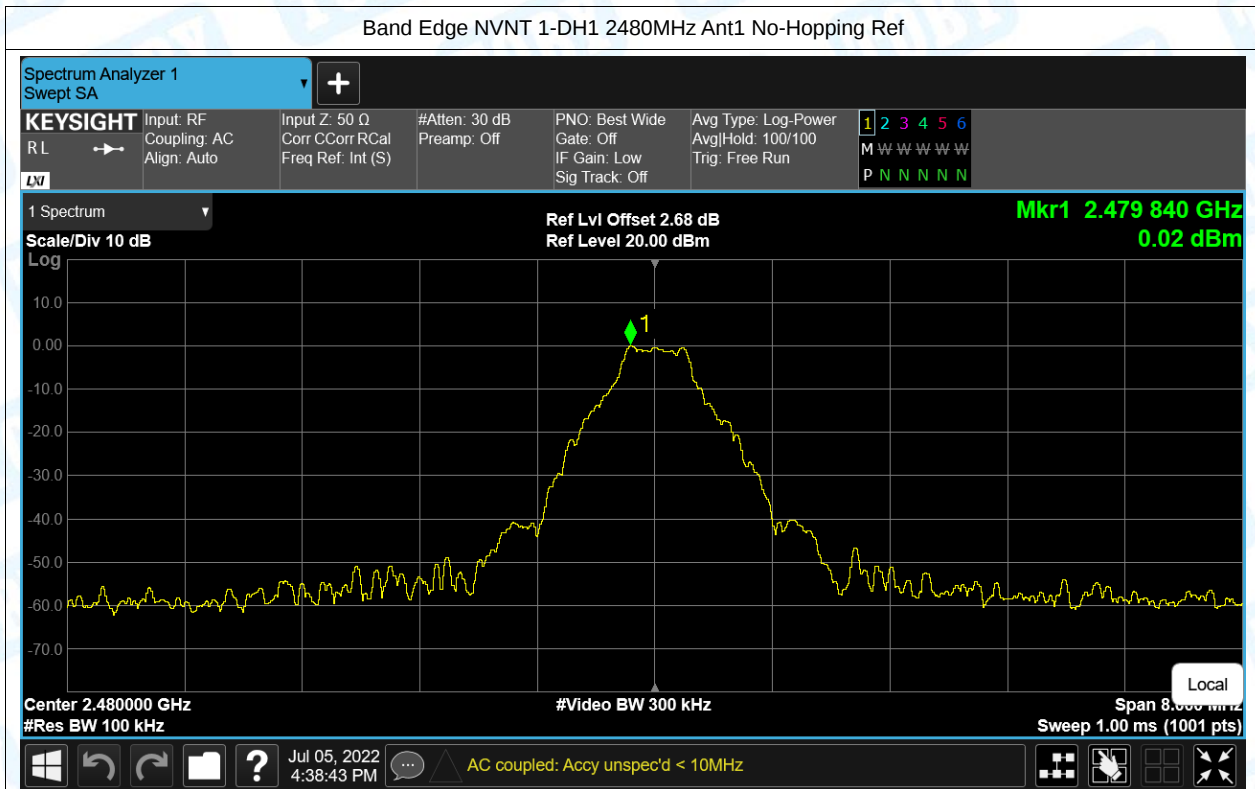
OBW NVNT 2-DH1 2480MHz Ant1

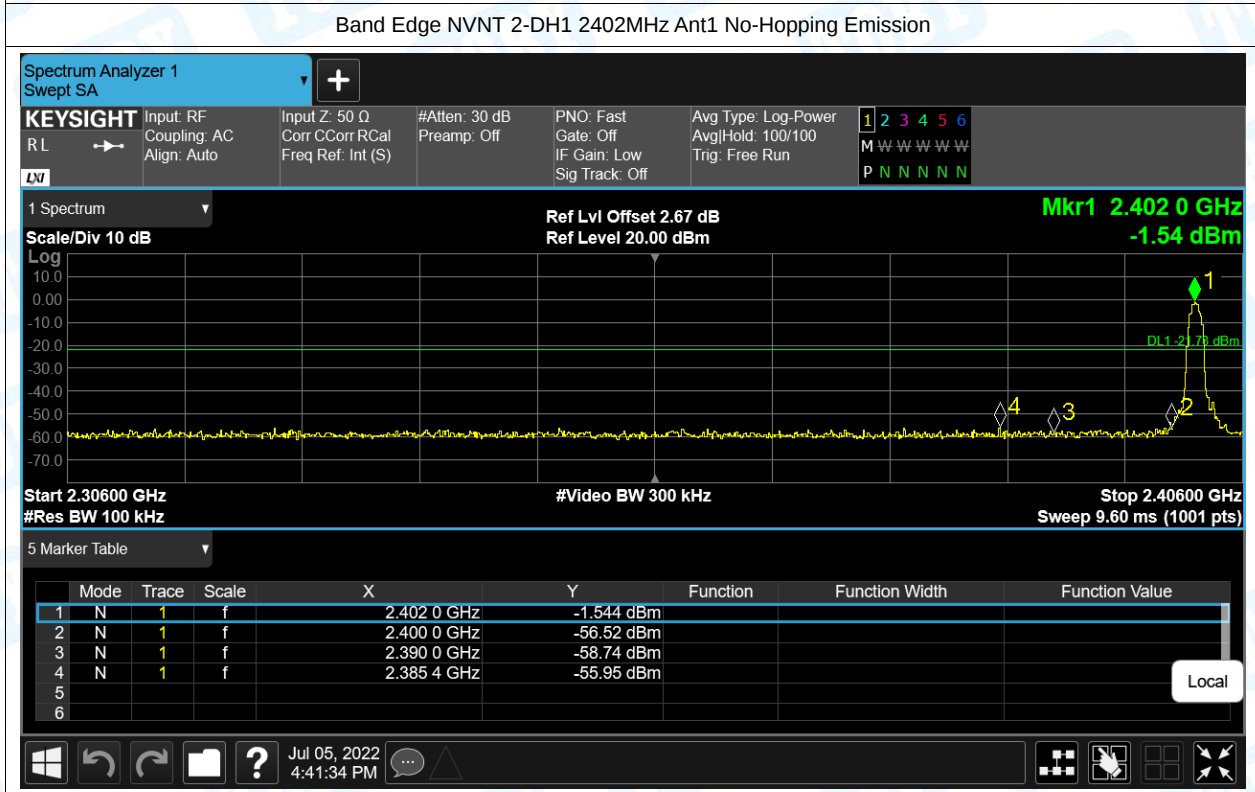
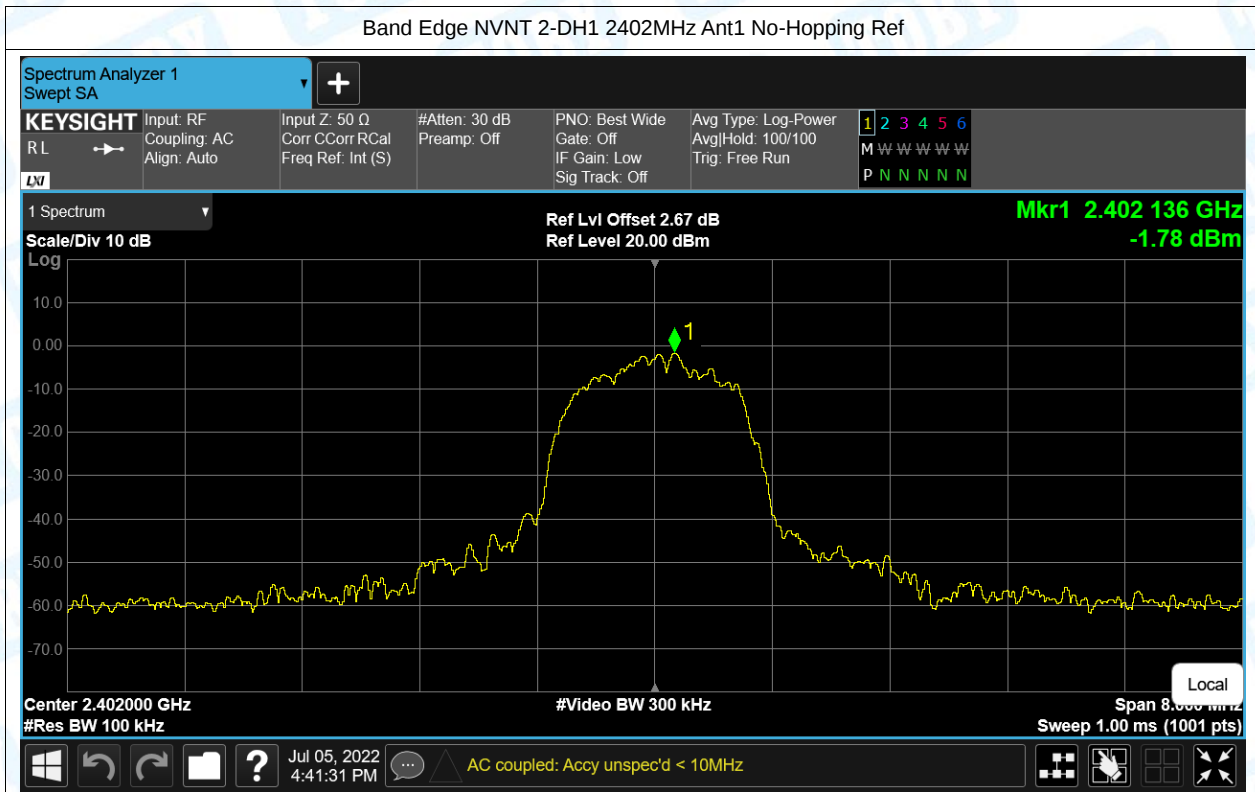


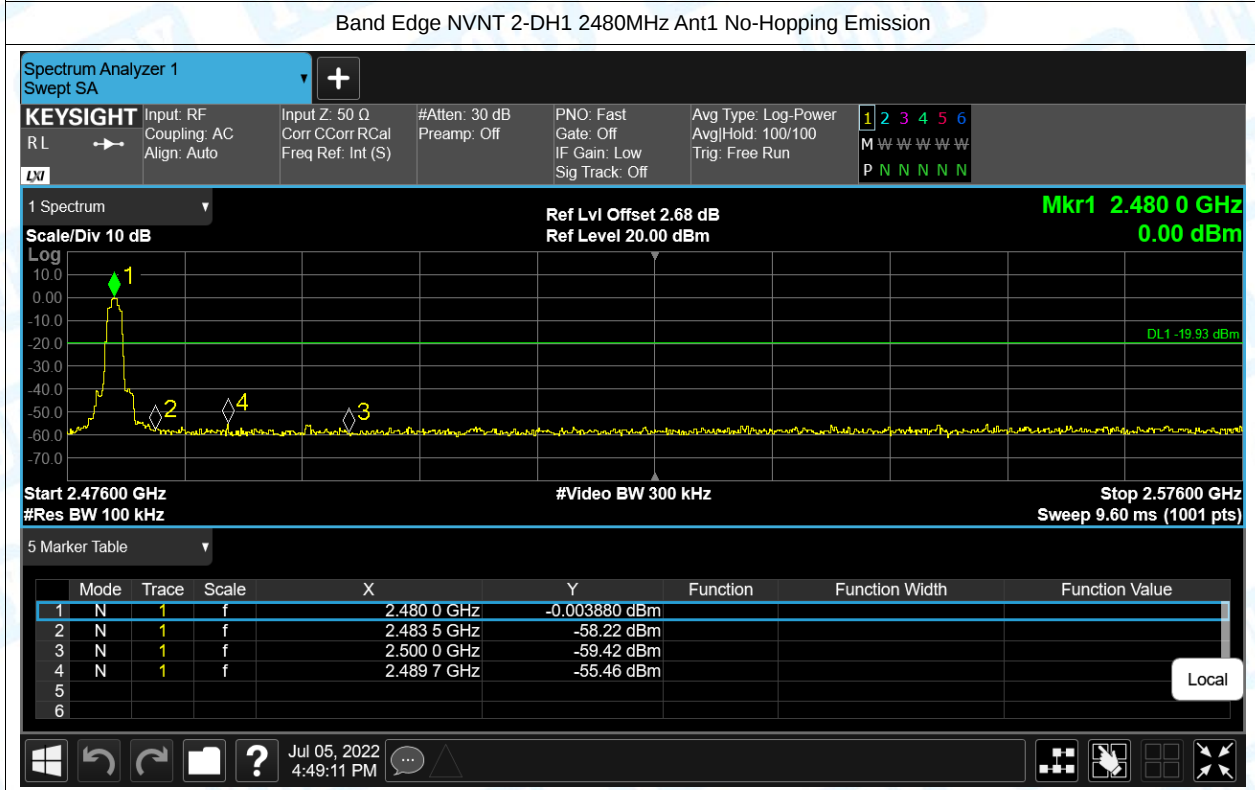
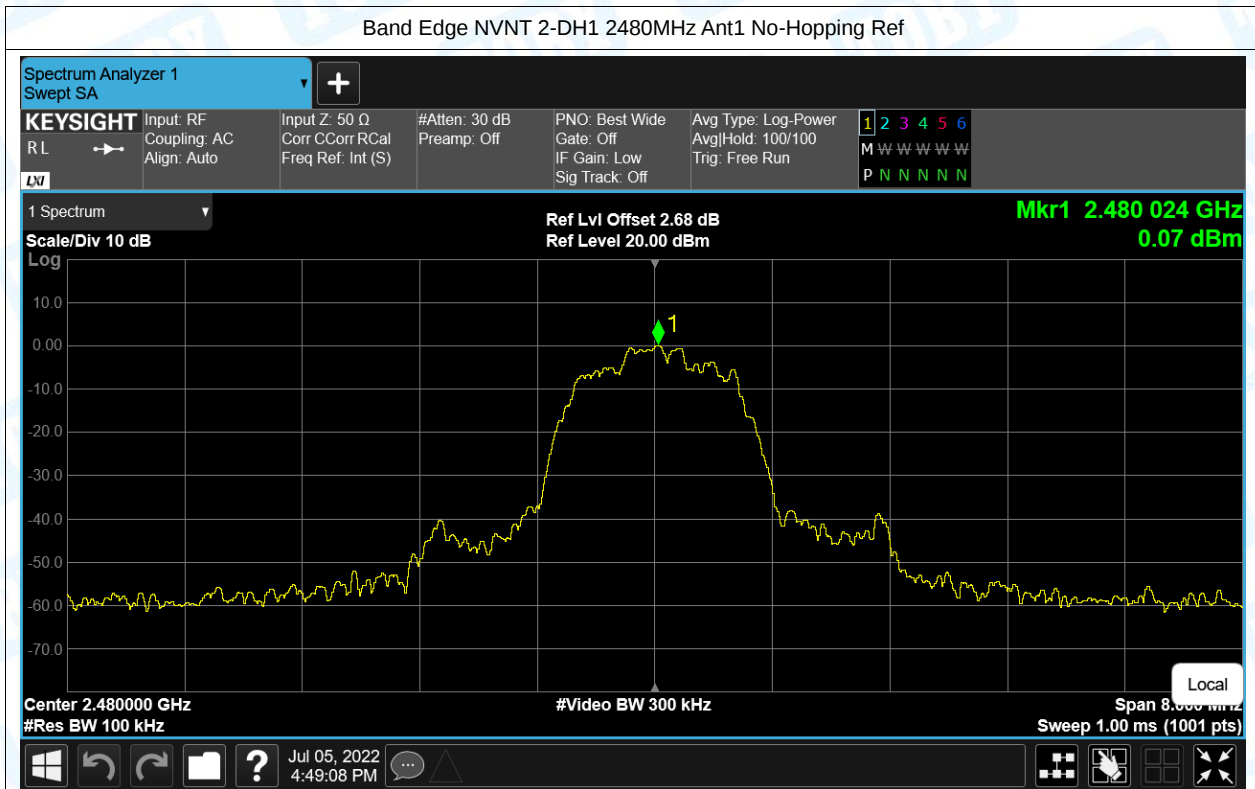
5. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-54.71	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-55.71	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-54.17	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-55.53	-20	Pass







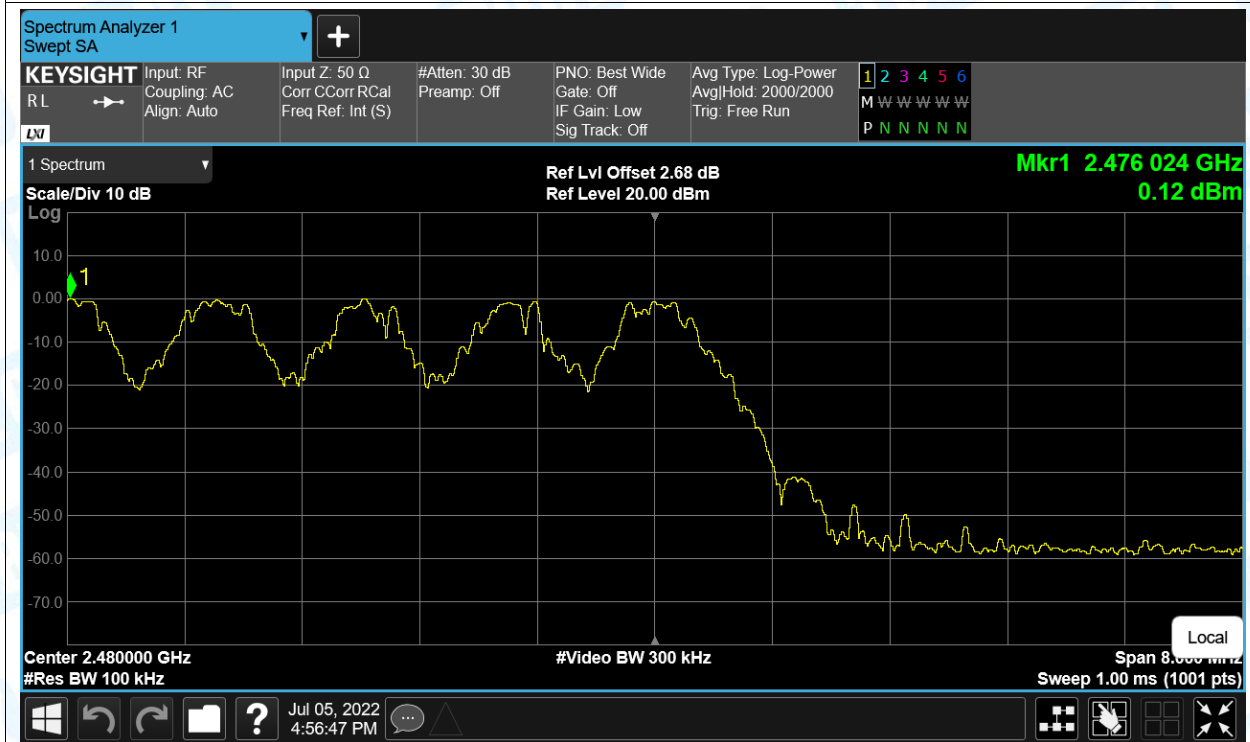


6. Band Edge(Hopping)

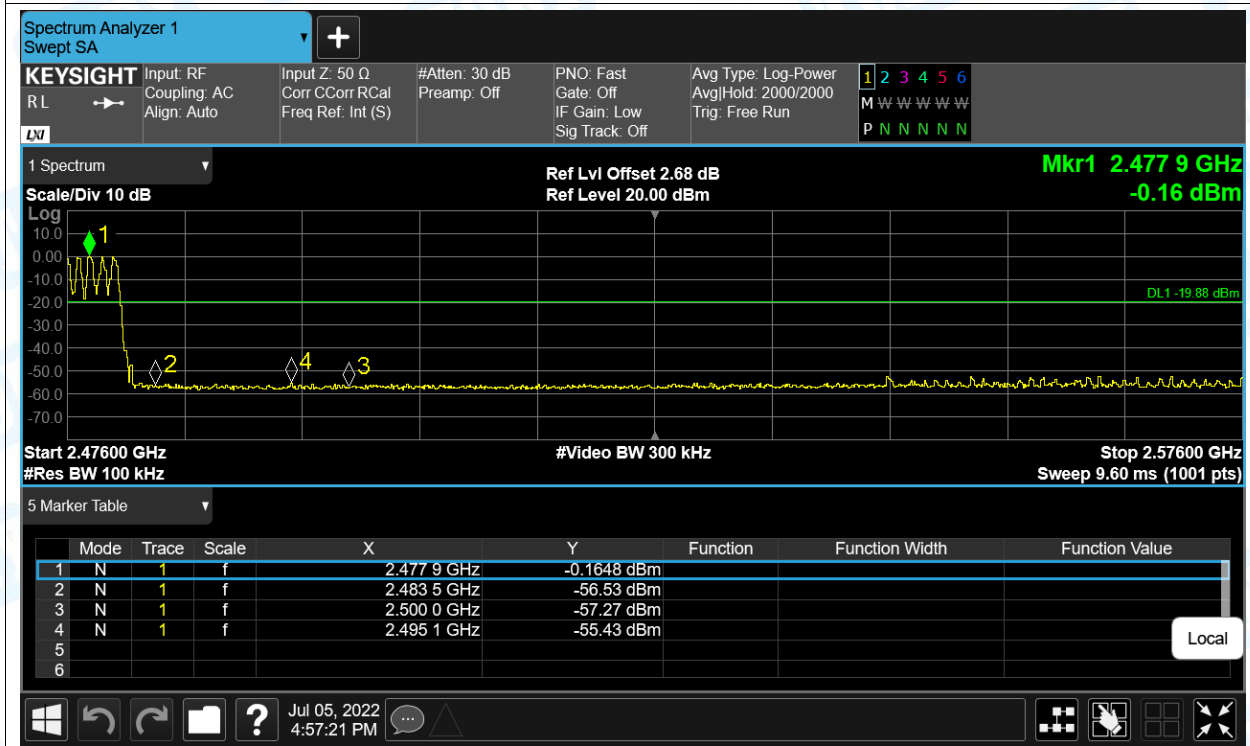
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-53.83	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-55.55	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-52.94	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-54.78	-20	Pass

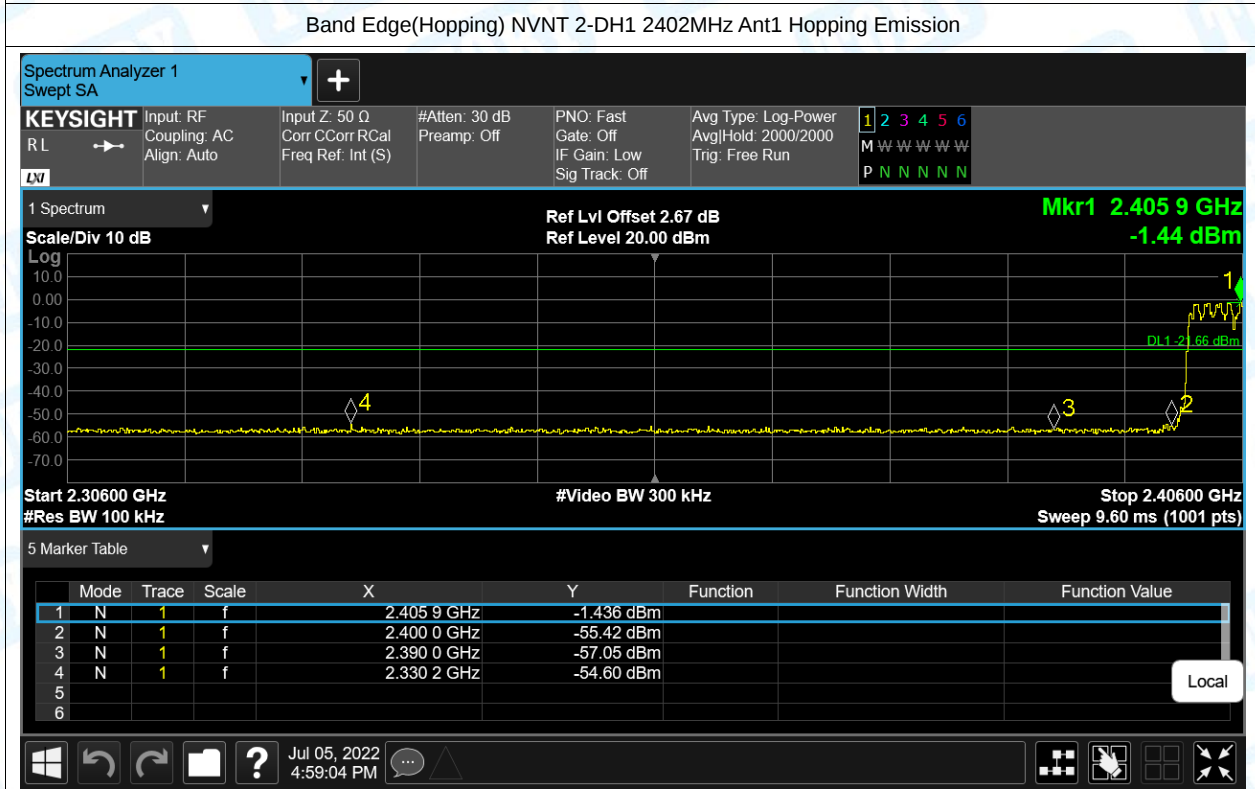
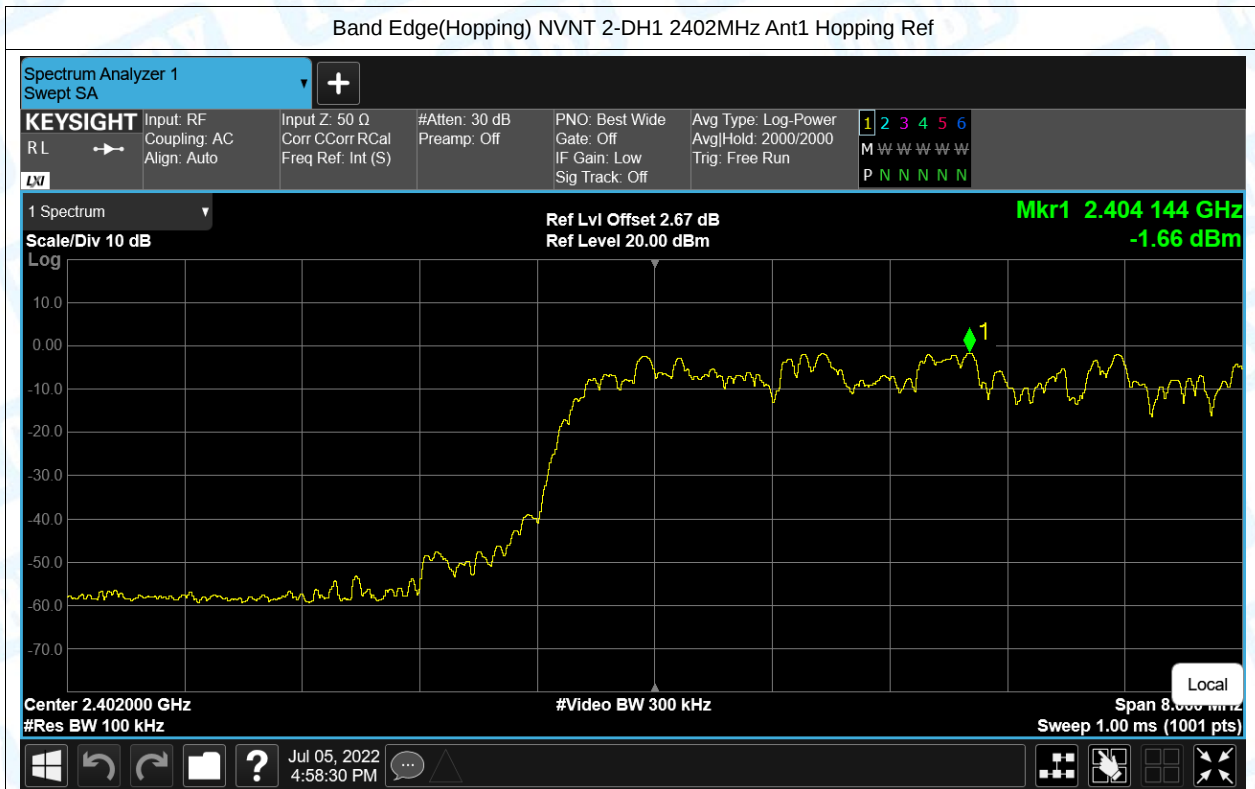


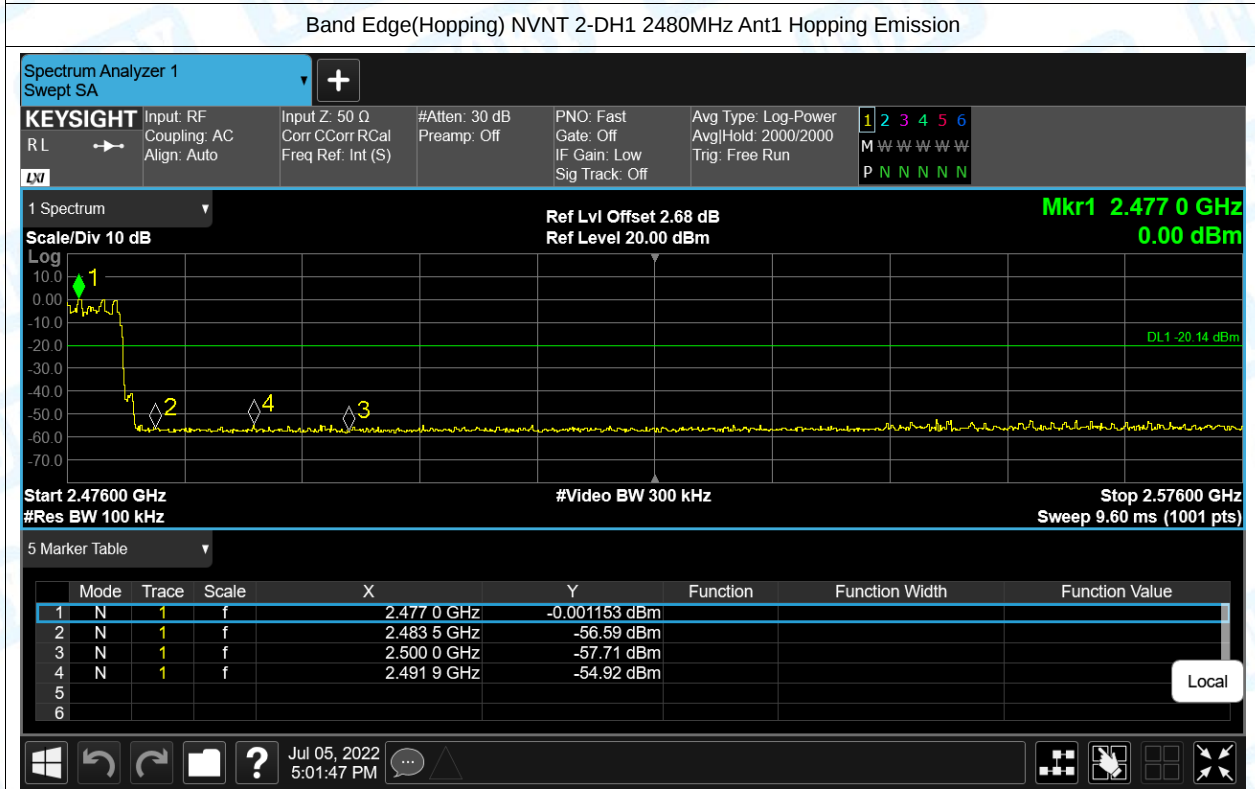
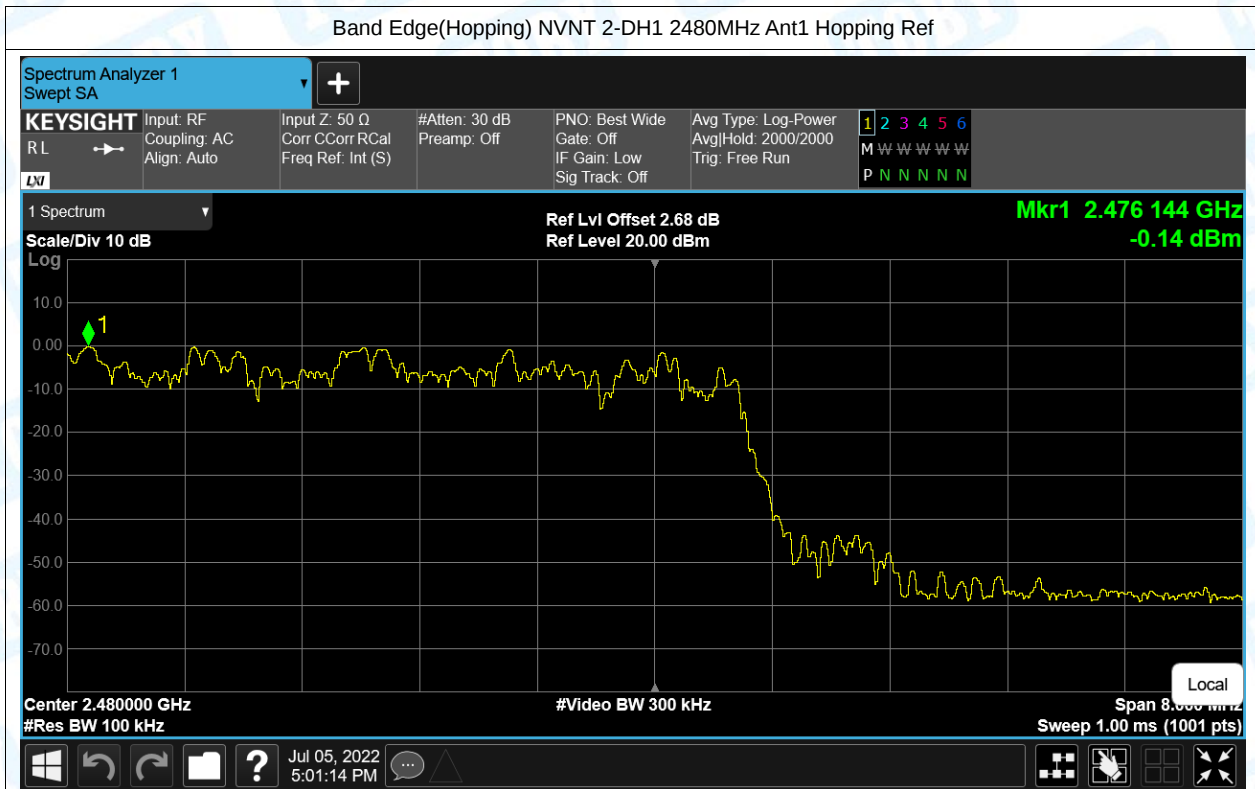
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission

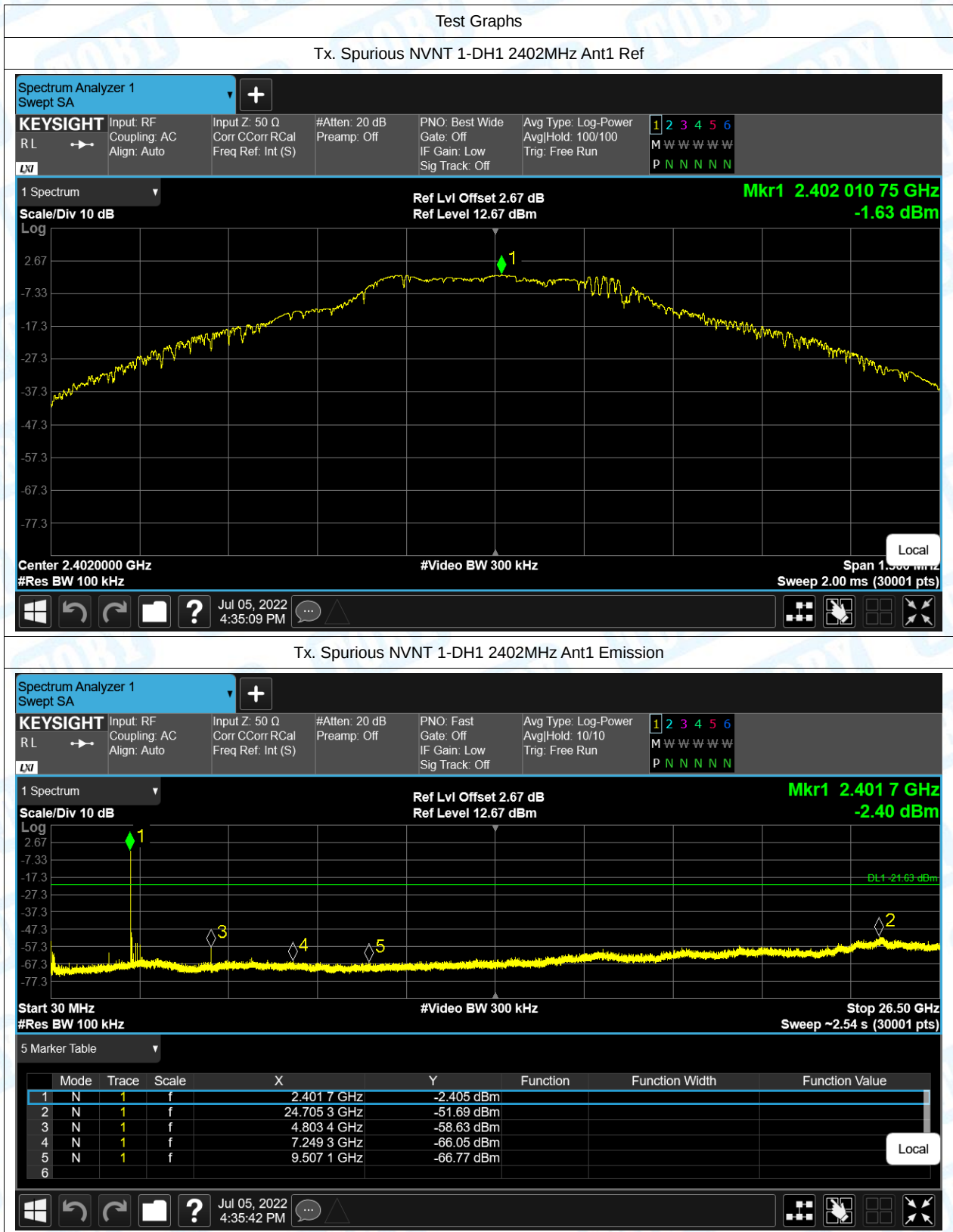


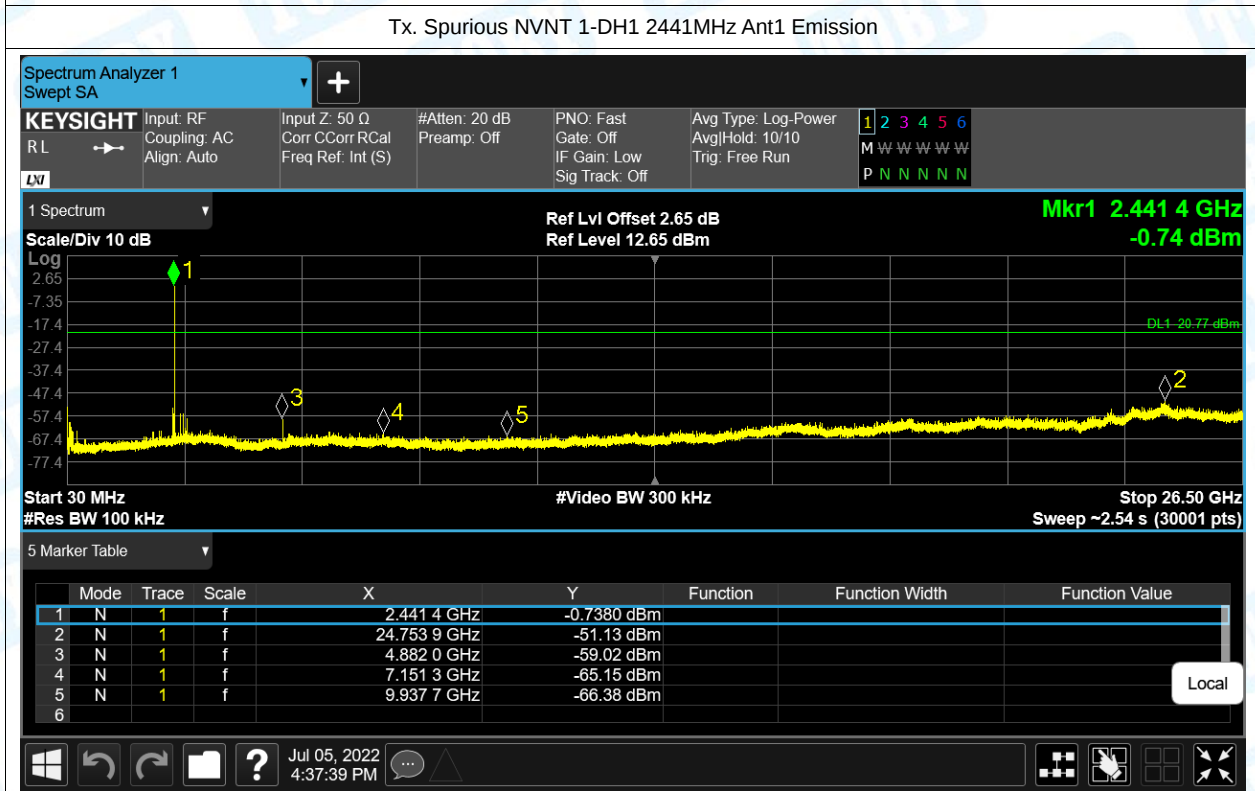
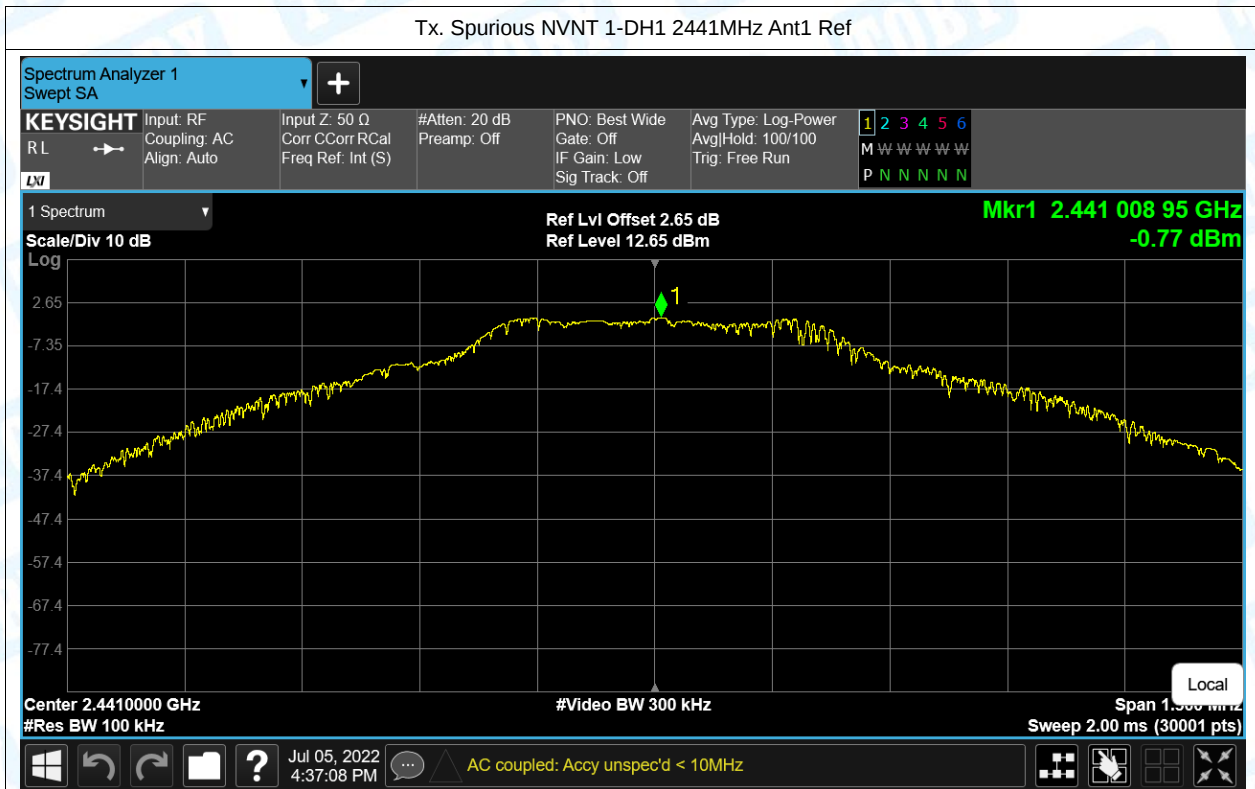


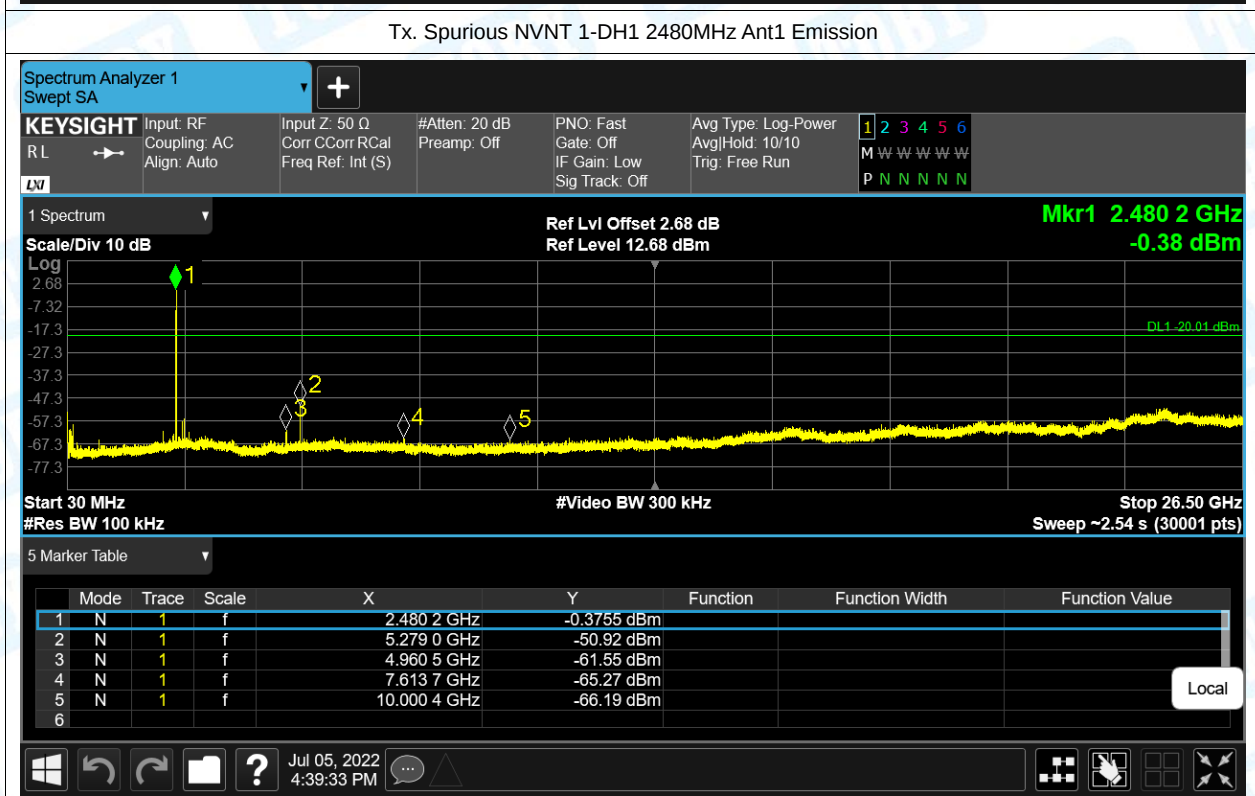
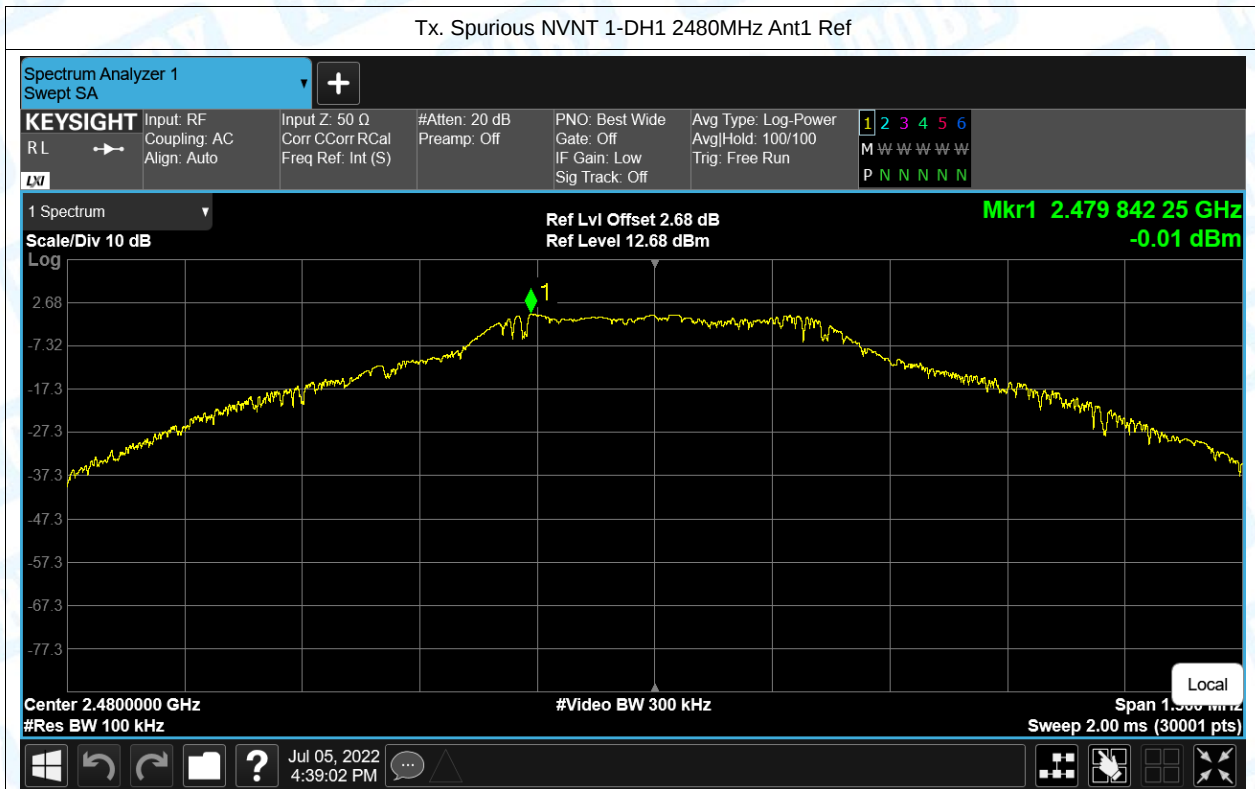


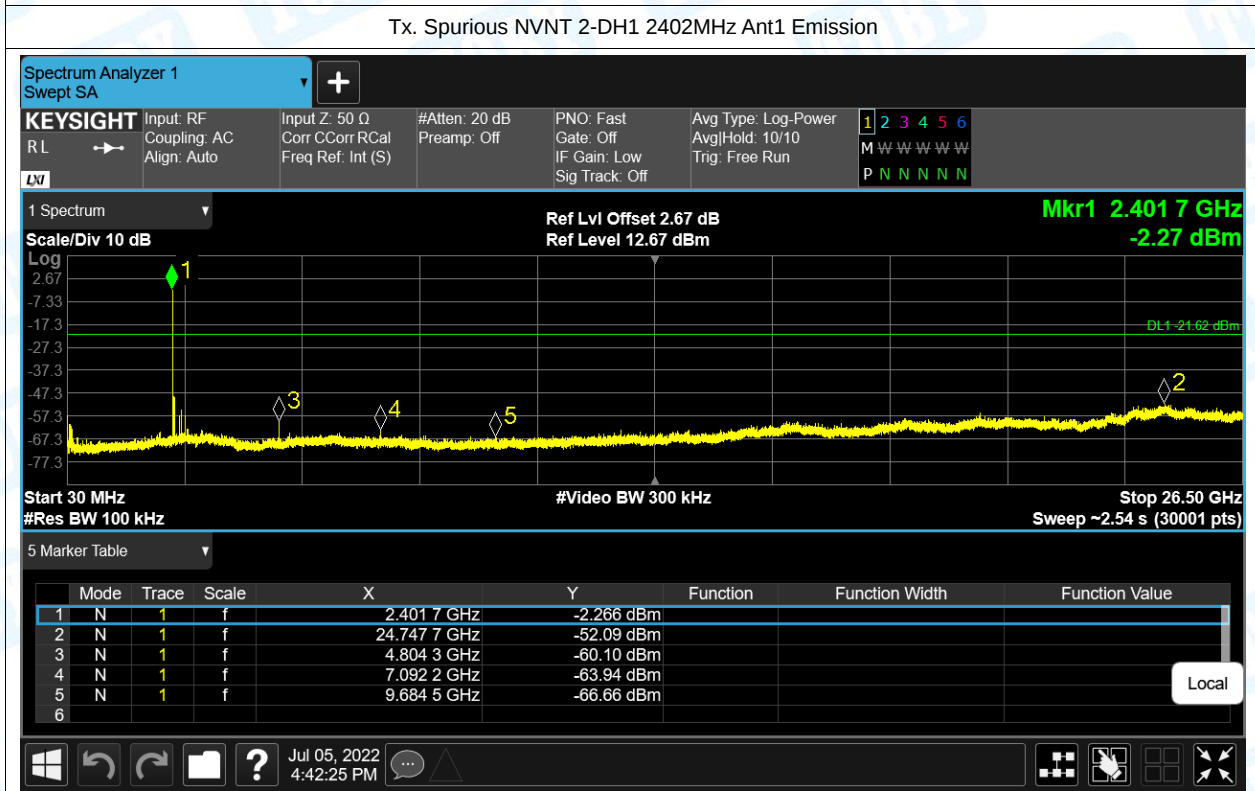
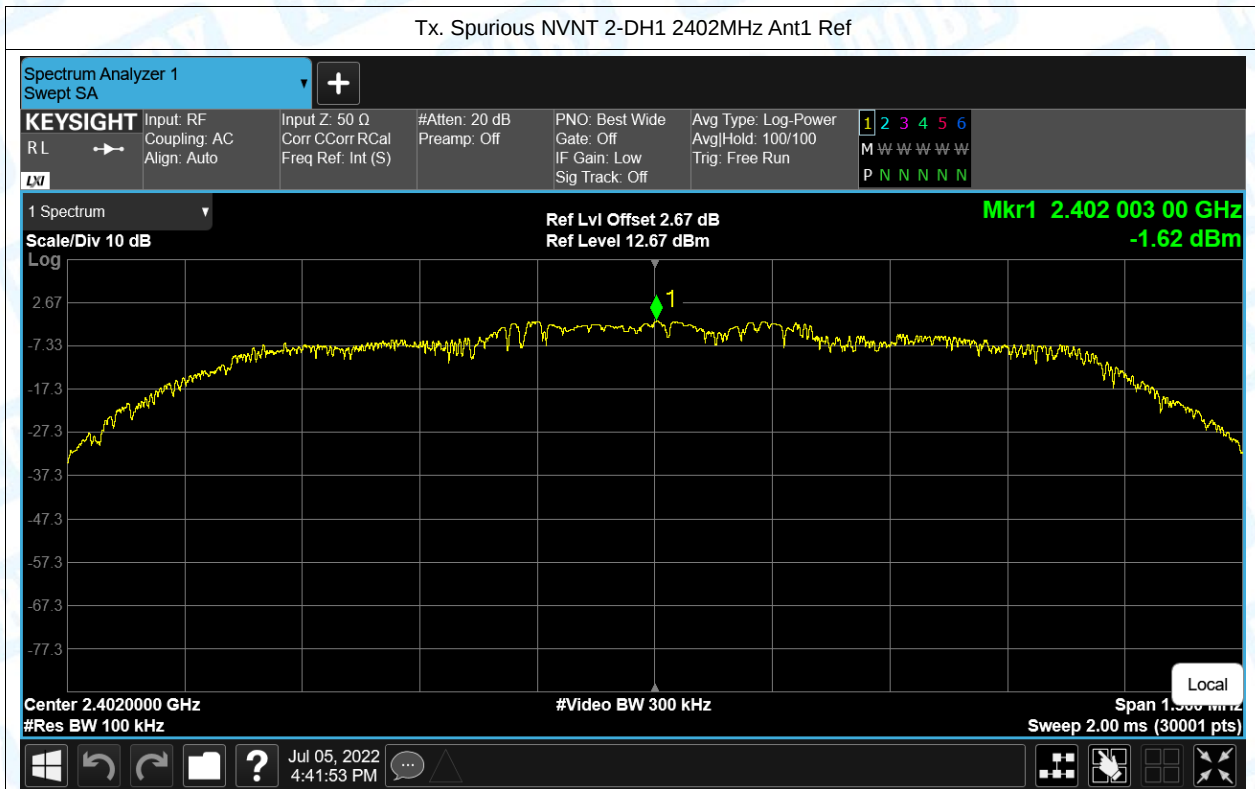
7. Conducted RF Spurious Emission

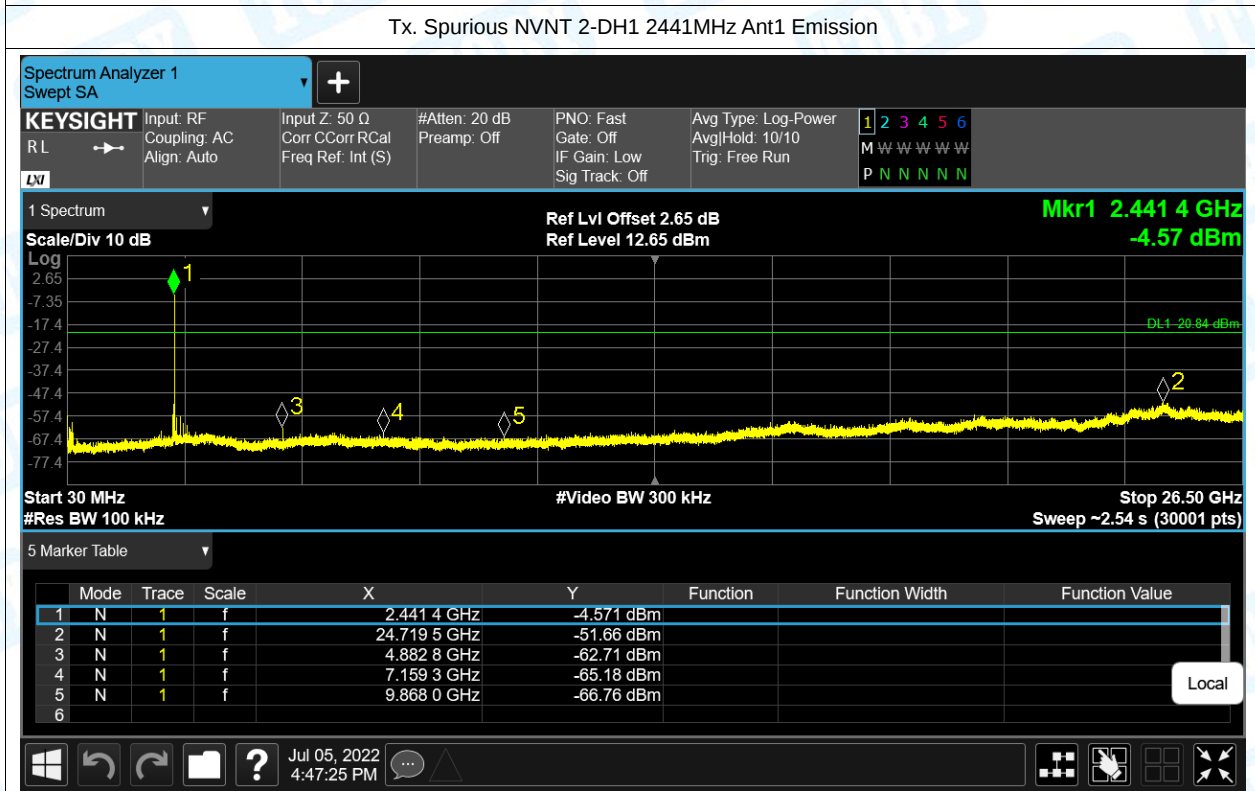
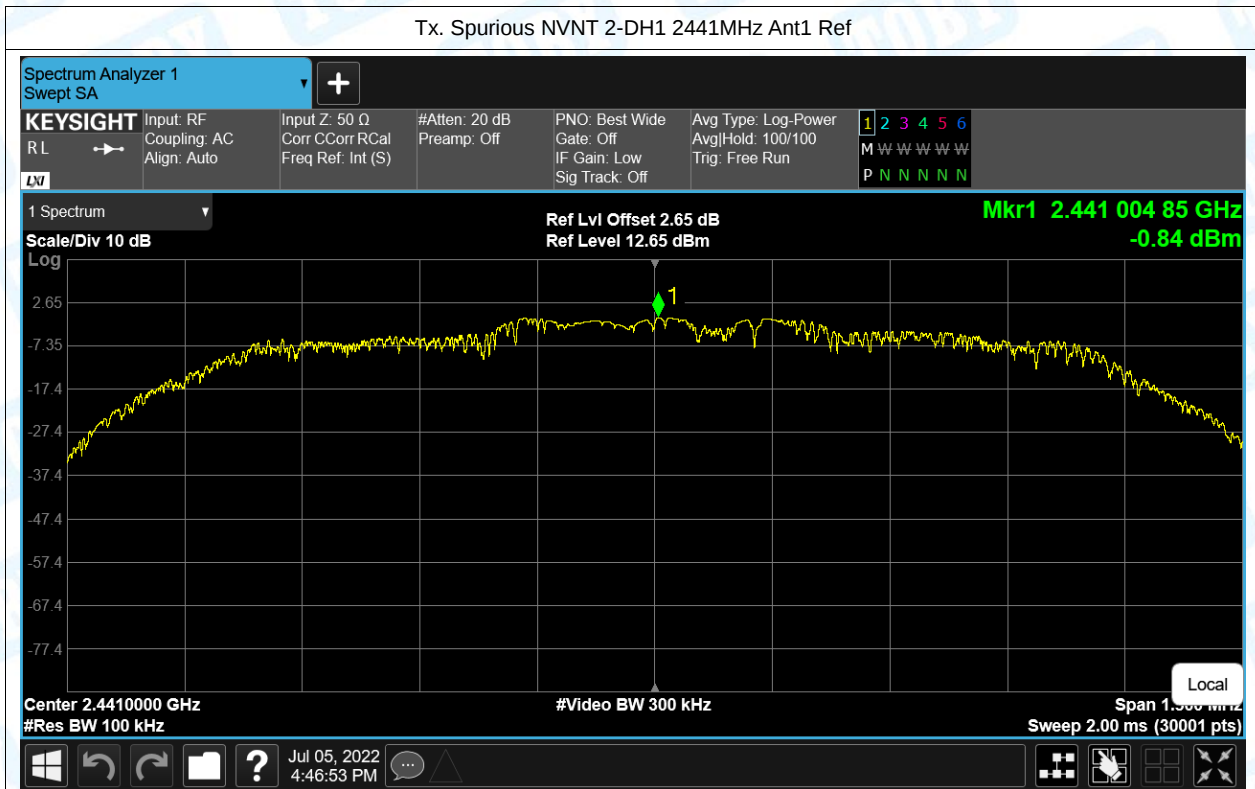
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-50.06	-20	Pass
NVNT	1-DH1	2441	Ant1	-50.36	-20	Pass
NVNT	1-DH1	2480	Ant1	-50.91	-20	Pass
NVNT	2-DH1	2402	Ant1	-50.47	-20	Pass
NVNT	2-DH1	2441	Ant1	-50.82	-20	Pass
NVNT	2-DH1	2480	Ant1	-51.8	-20	Pass



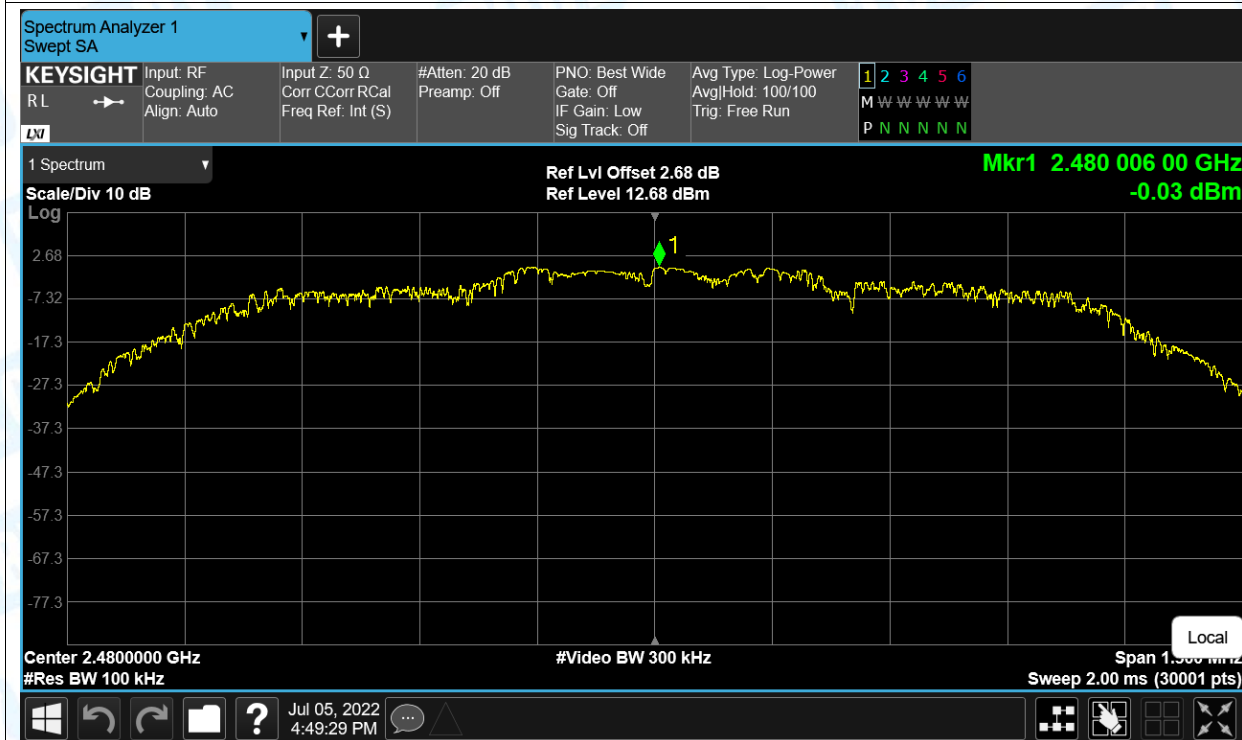




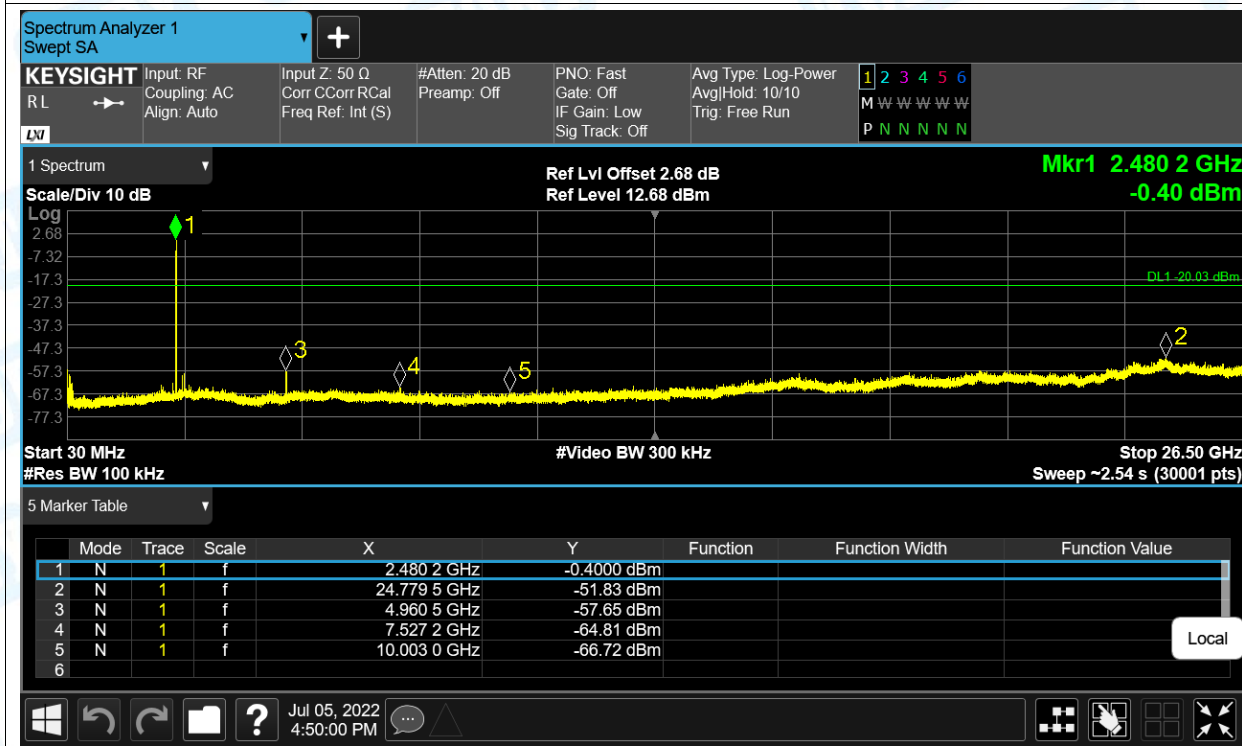




Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref

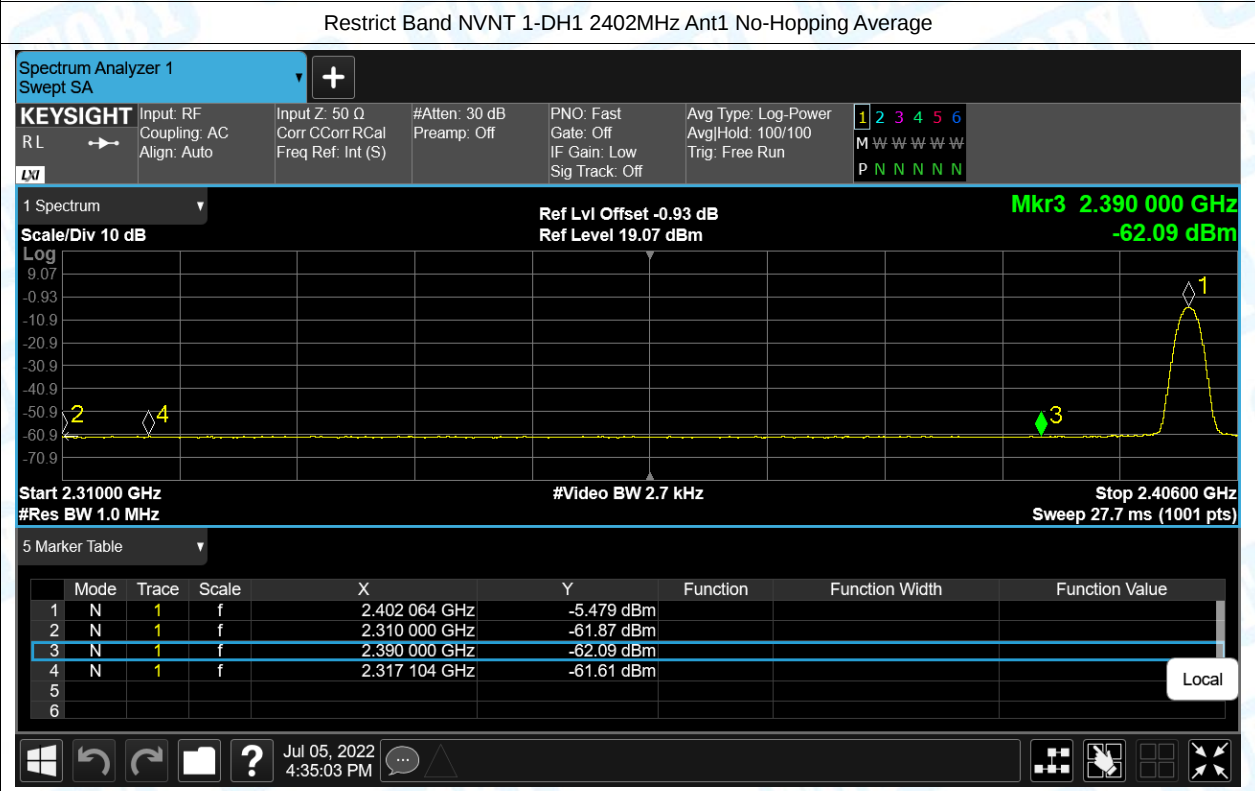
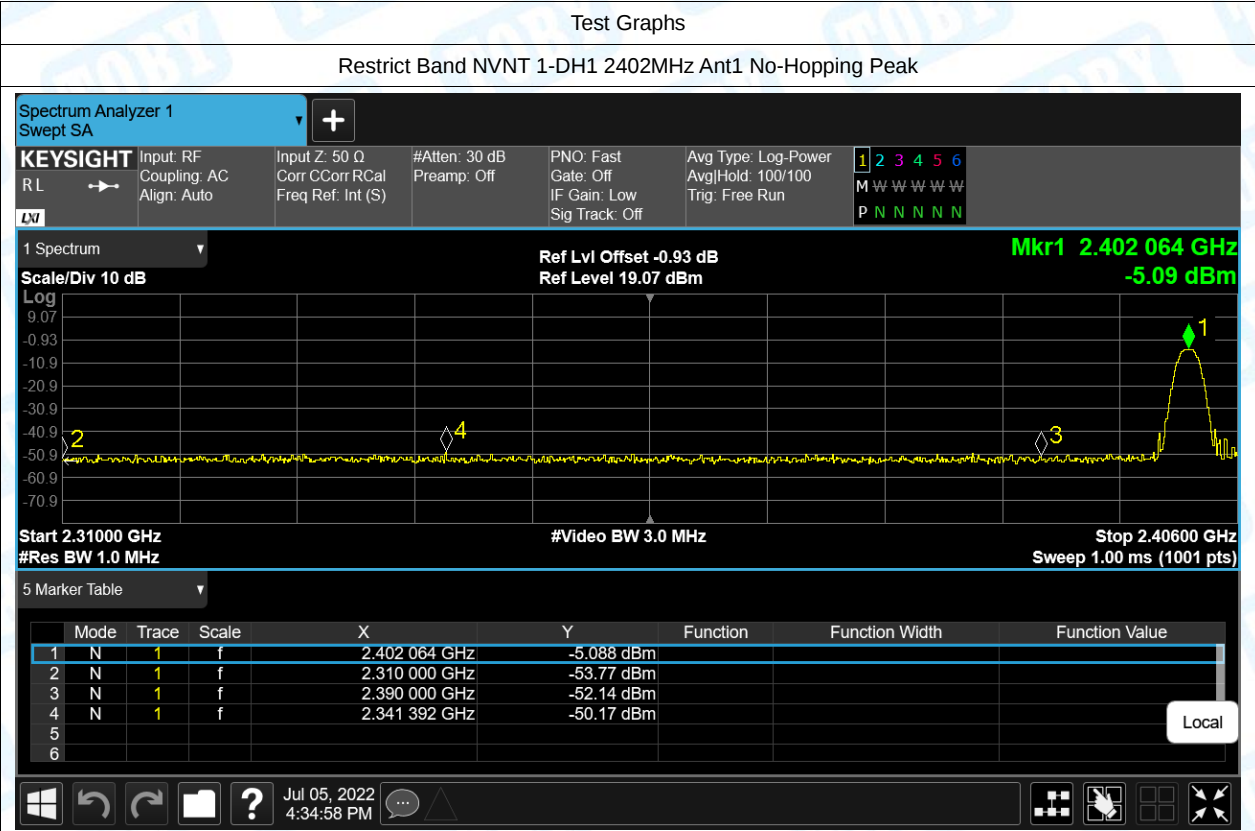


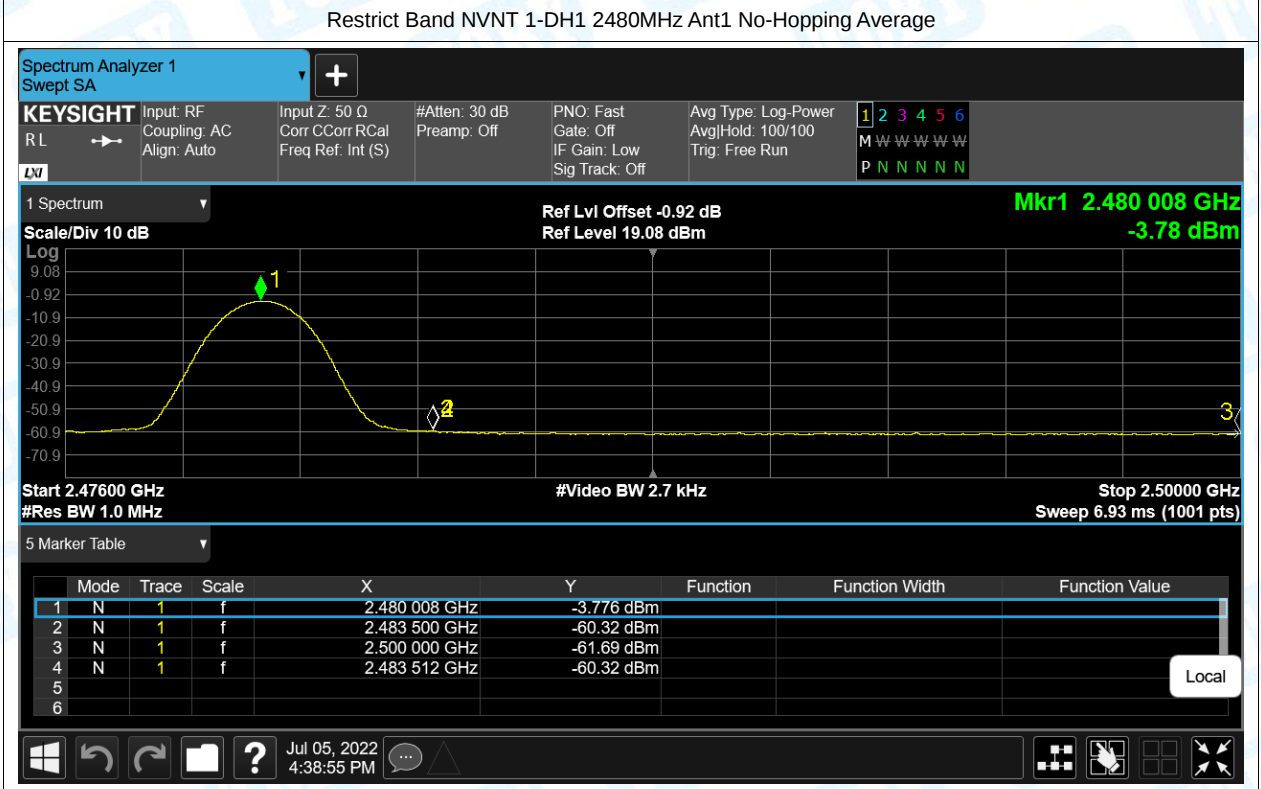
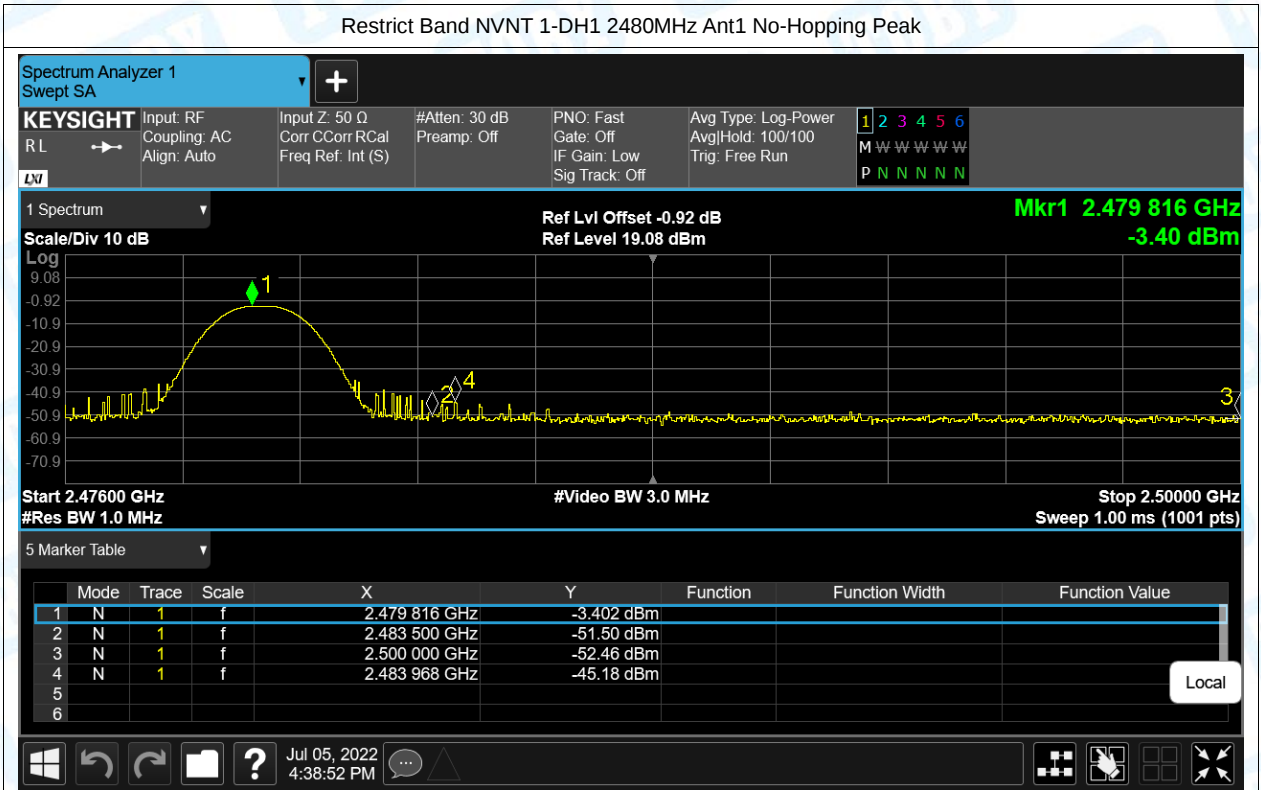
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



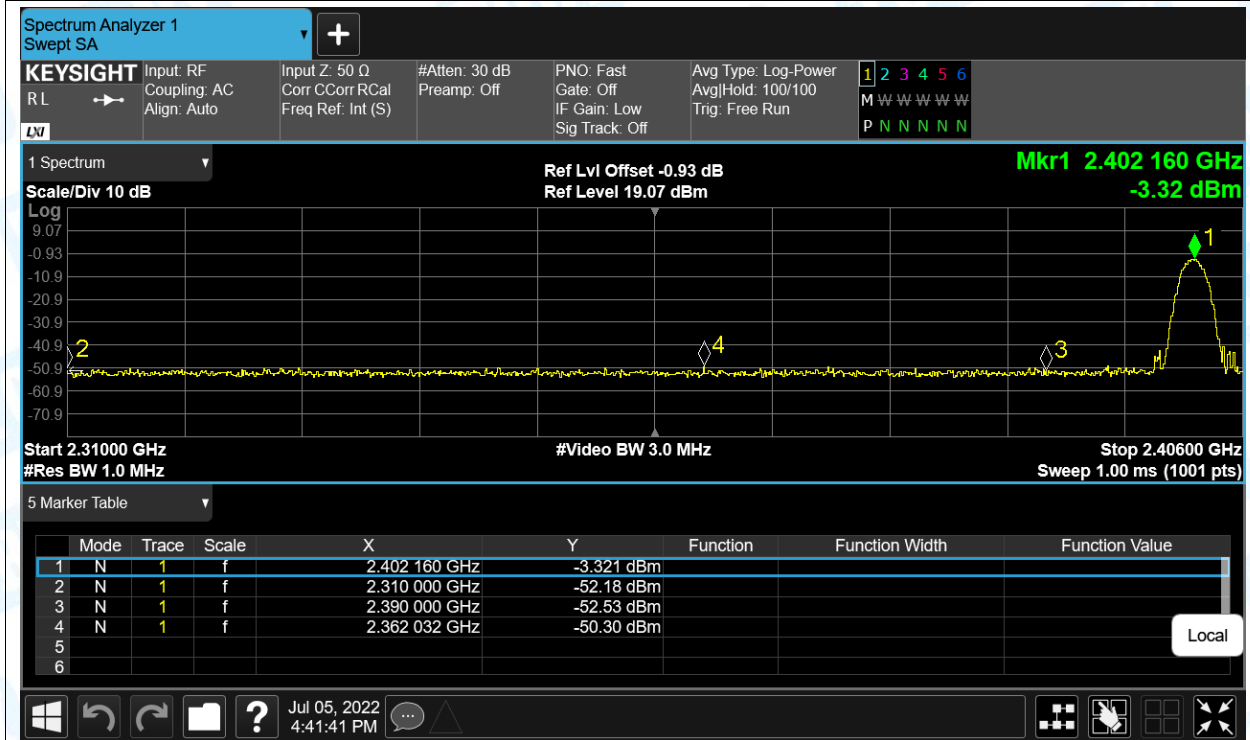
8. Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-53.77	2	43.49	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-61.87	2	35.39	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2341.392	-50.17	2	47.09	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2317.104	-61.61	2	35.65	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-53.44	2	43.82	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-62.13	2	35.13	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-51.5	2	45.76	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-60.32	2	36.94	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.968	-45.18	2	52.08	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.512	-60.32	2	36.94	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-52.46	2	44.8	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-61.69	2	35.57	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-52.18	2	45.08	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-62.2	2	35.06	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2362.032	-50.3	2	46.96	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2328.24	-61.52	2	35.74	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-54.03	2	43.23	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-61.88	2	35.38	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-52.82	2	44.44	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-60.81	2	36.45	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.944	-46.08	2	51.18	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.656	-60.5	2	36.76	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-53.44	2	43.82	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-62.06	2	35.2	Average	54	Pass

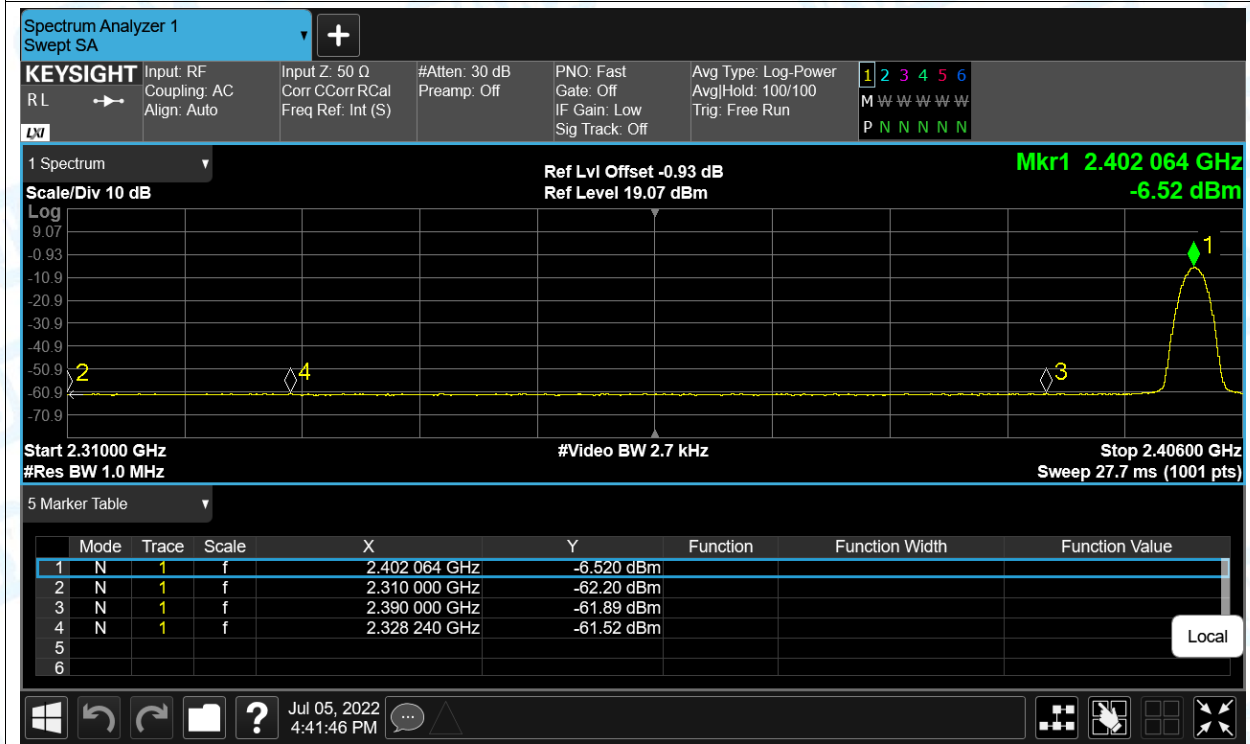


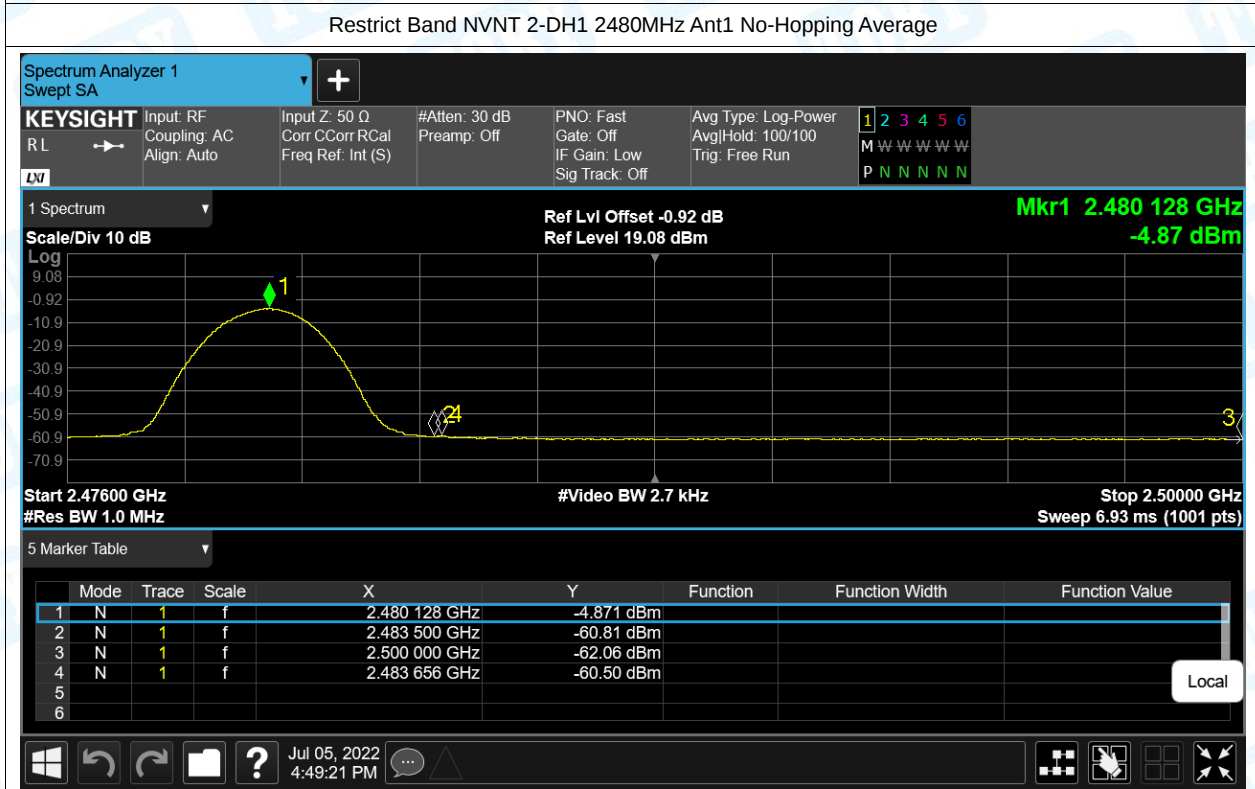
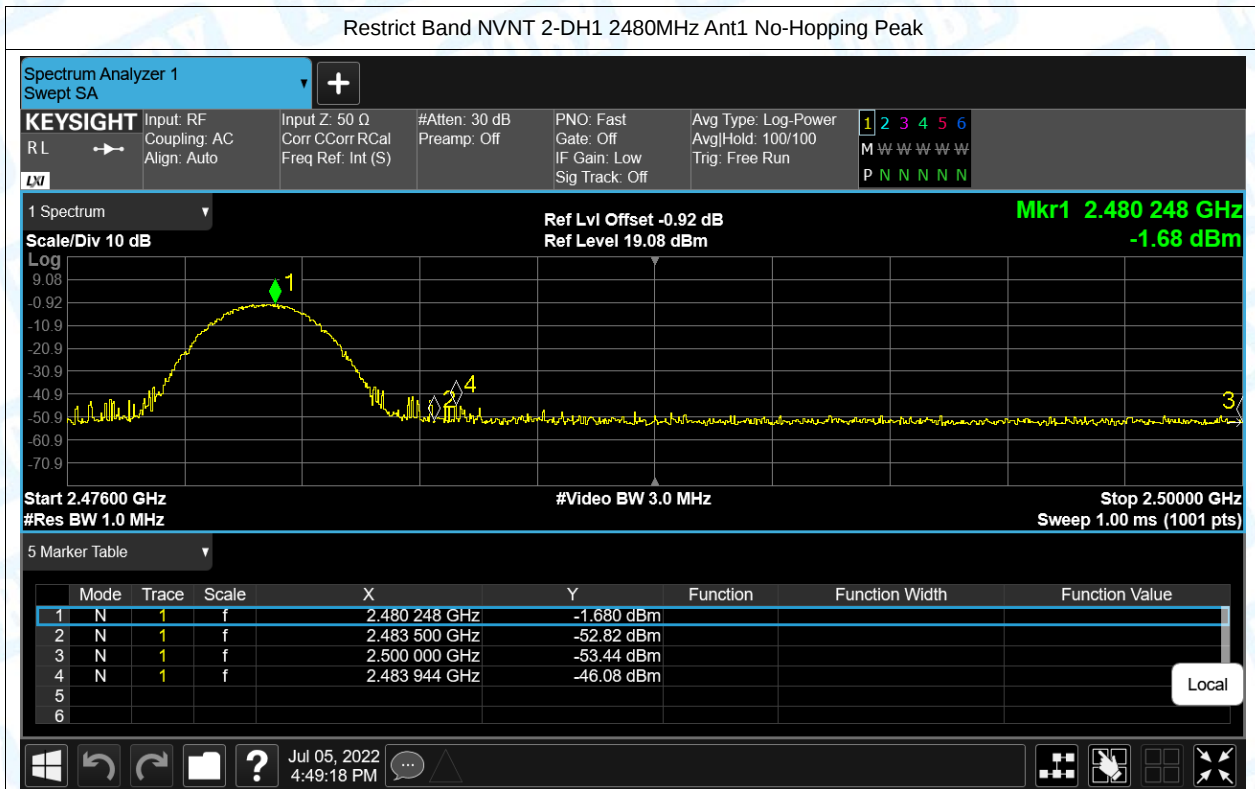


Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



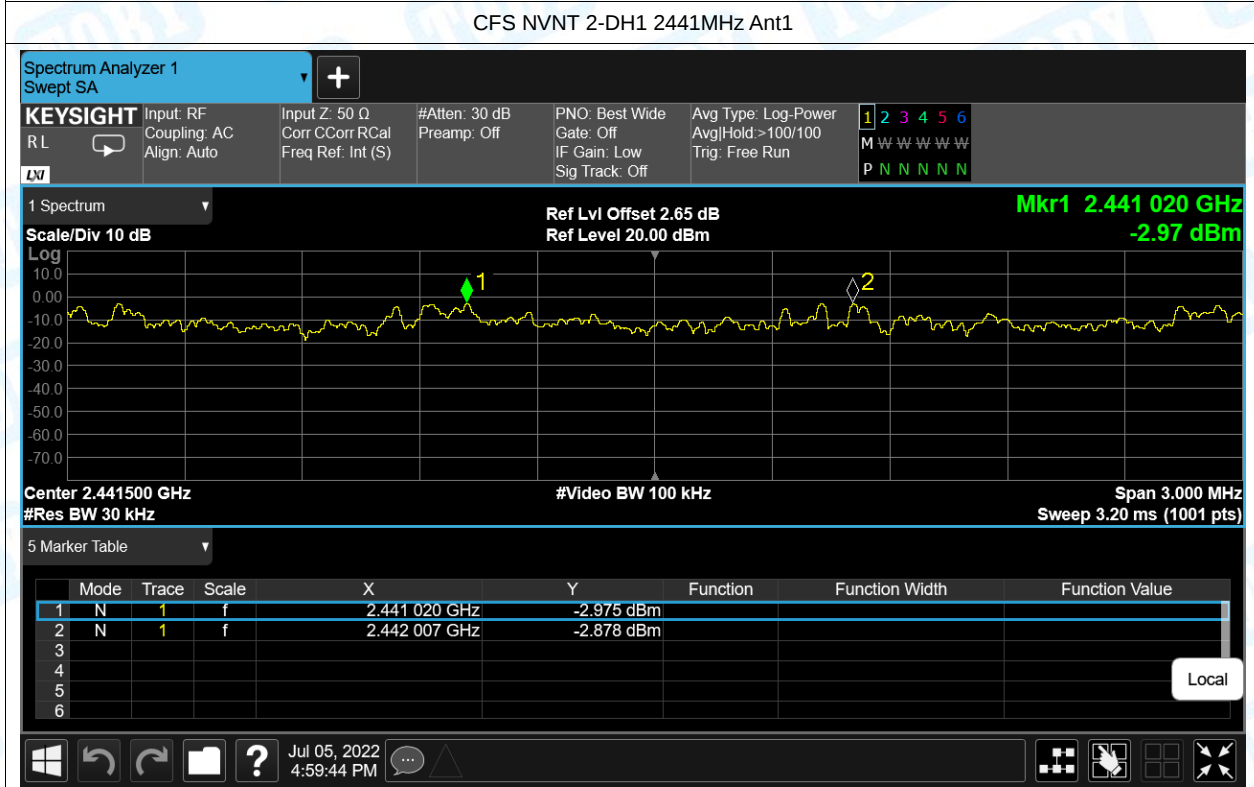
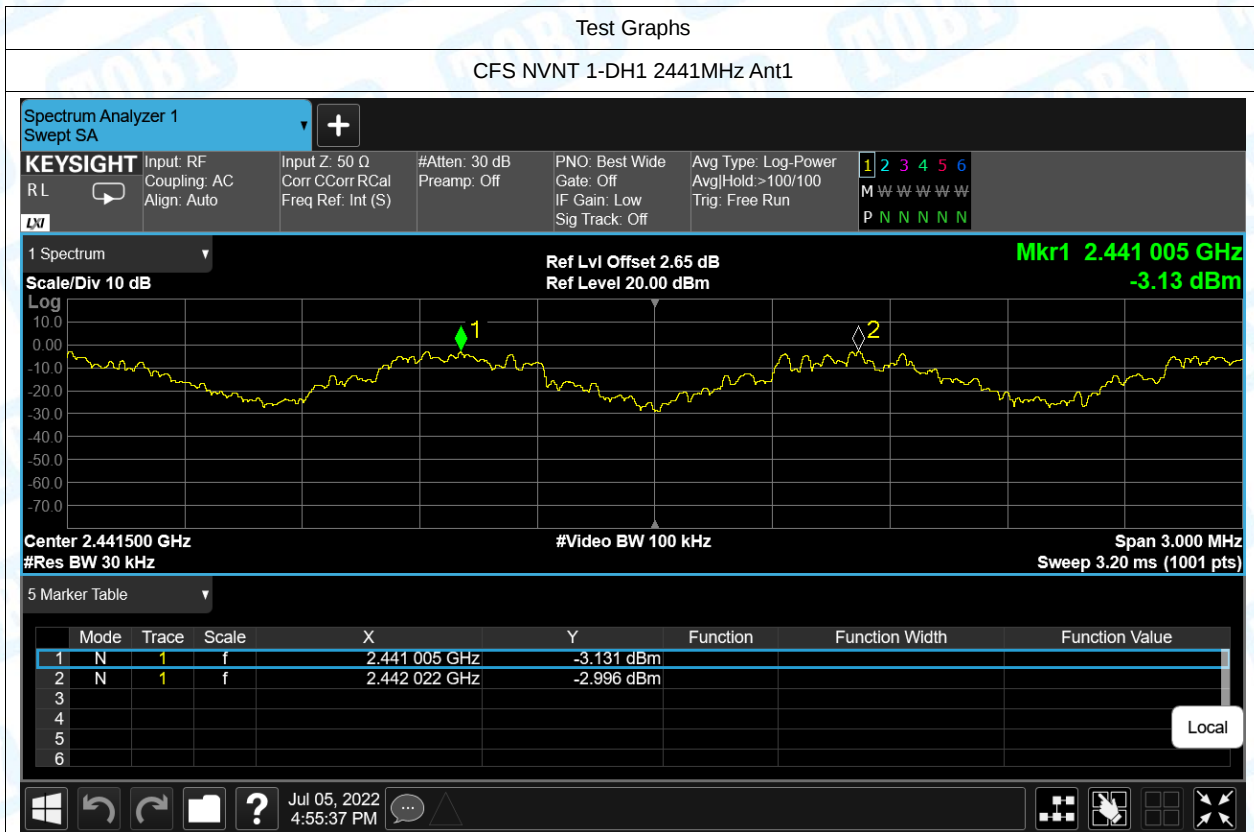
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average





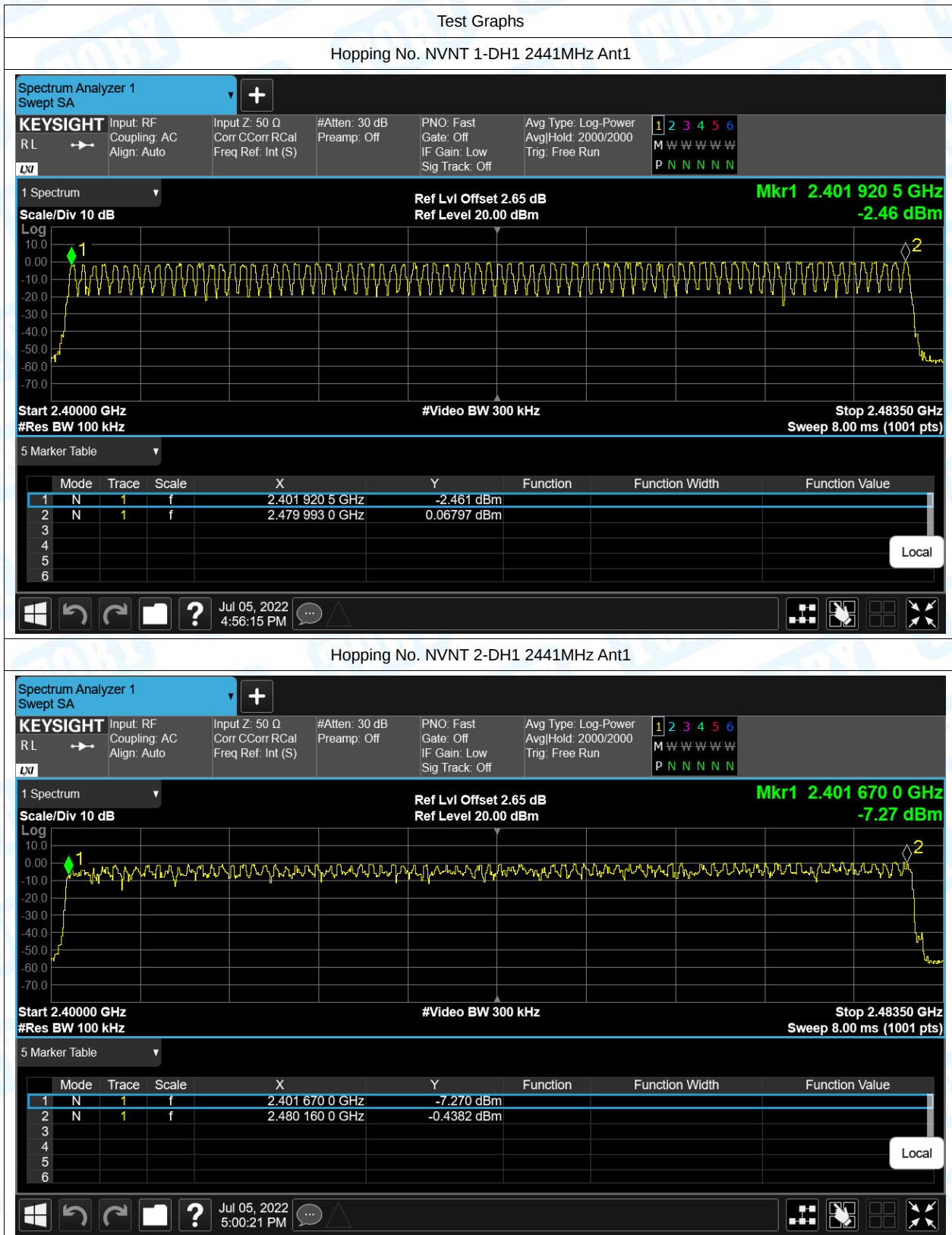
9. Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2441.005	2442.022	1.017	0.62	Pass
NVNT	2-DH1	Ant1	2441.02	2442.007	0.987	0.84	Pass



10. 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

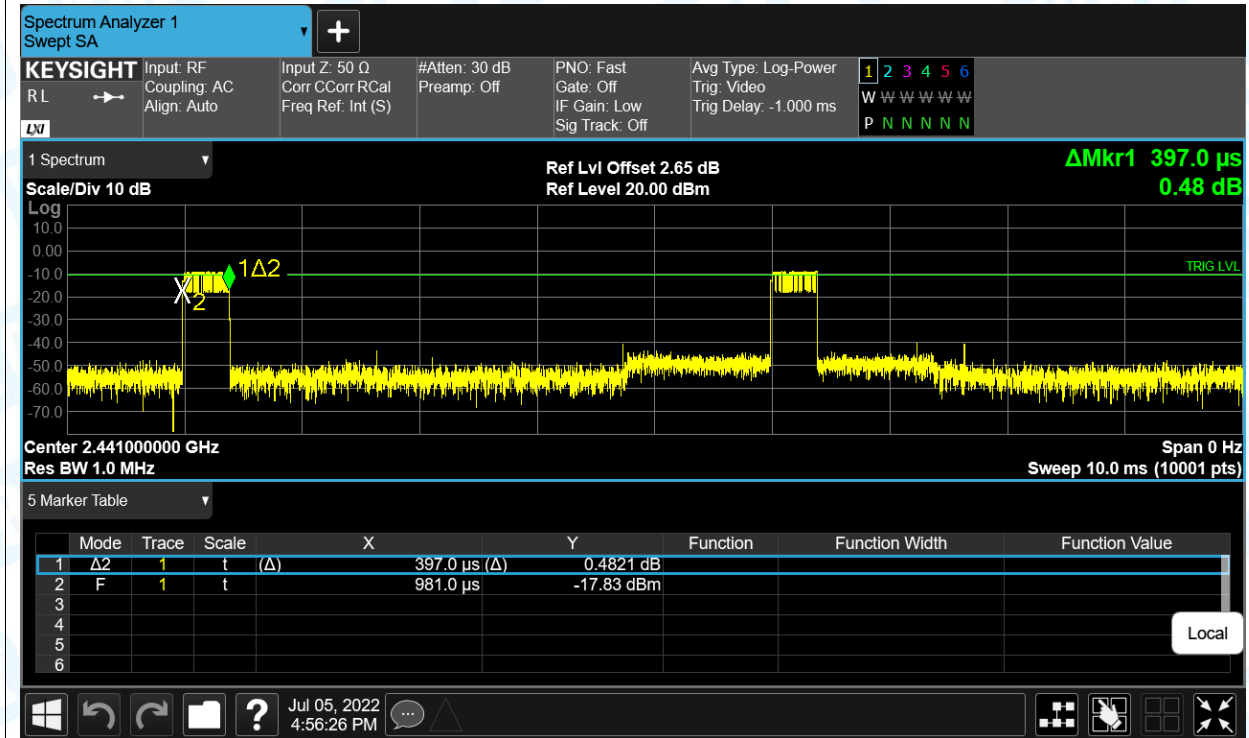


11. Dwell Time

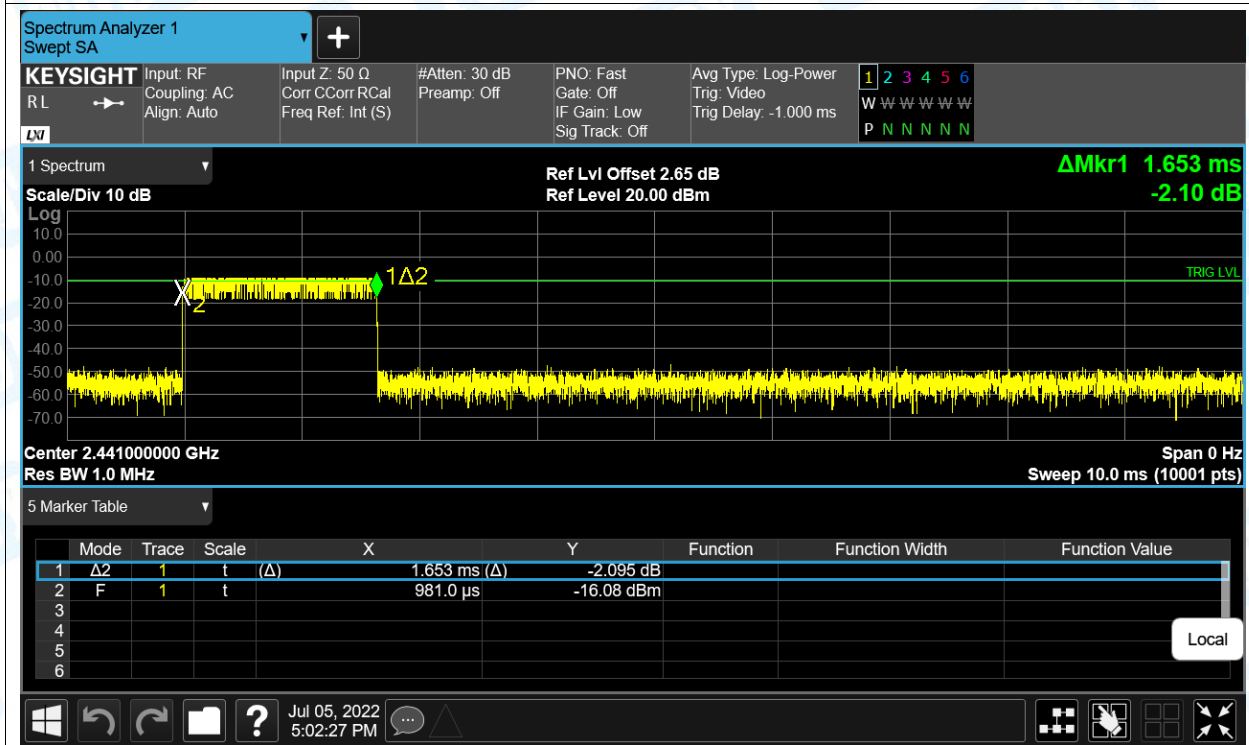
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.397	127.04	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.653	264.48	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.905	309.867	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.389	124.48	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.662	265.92	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.909	310.293	31600	400	Pass

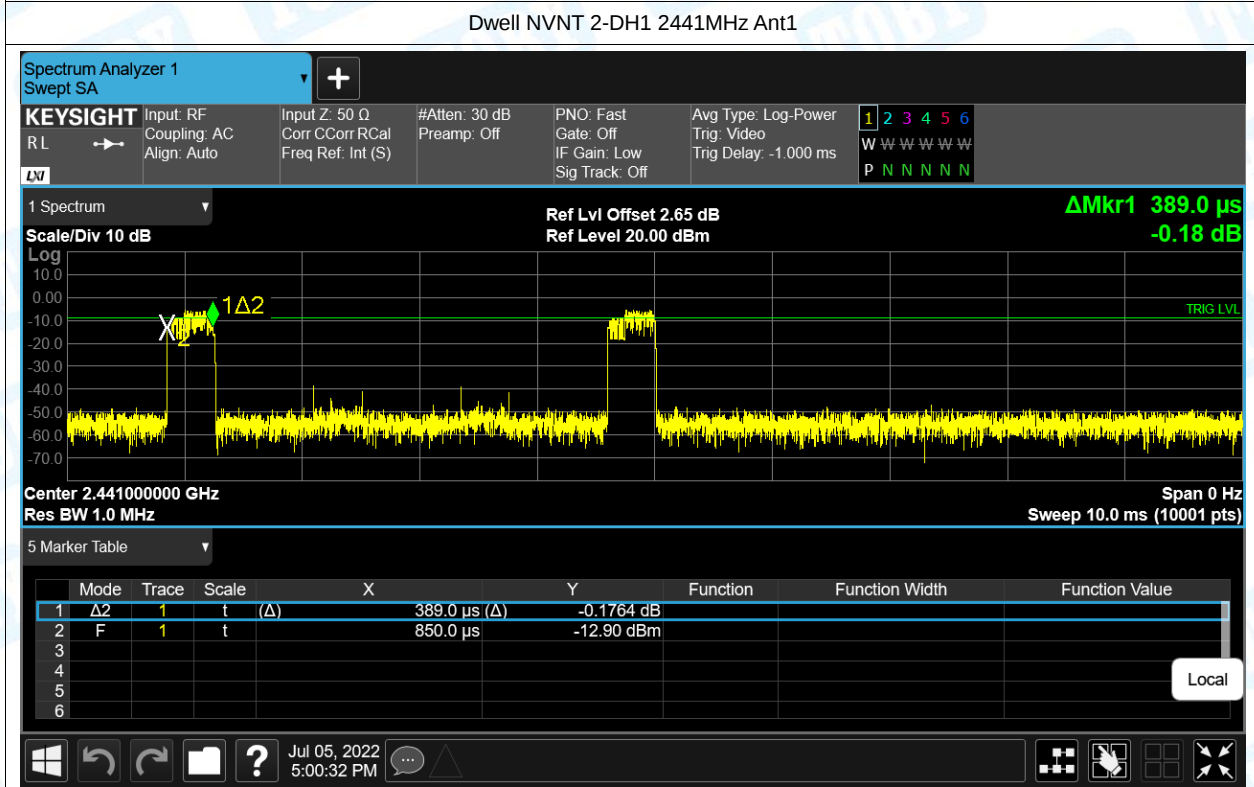
Test Graphs

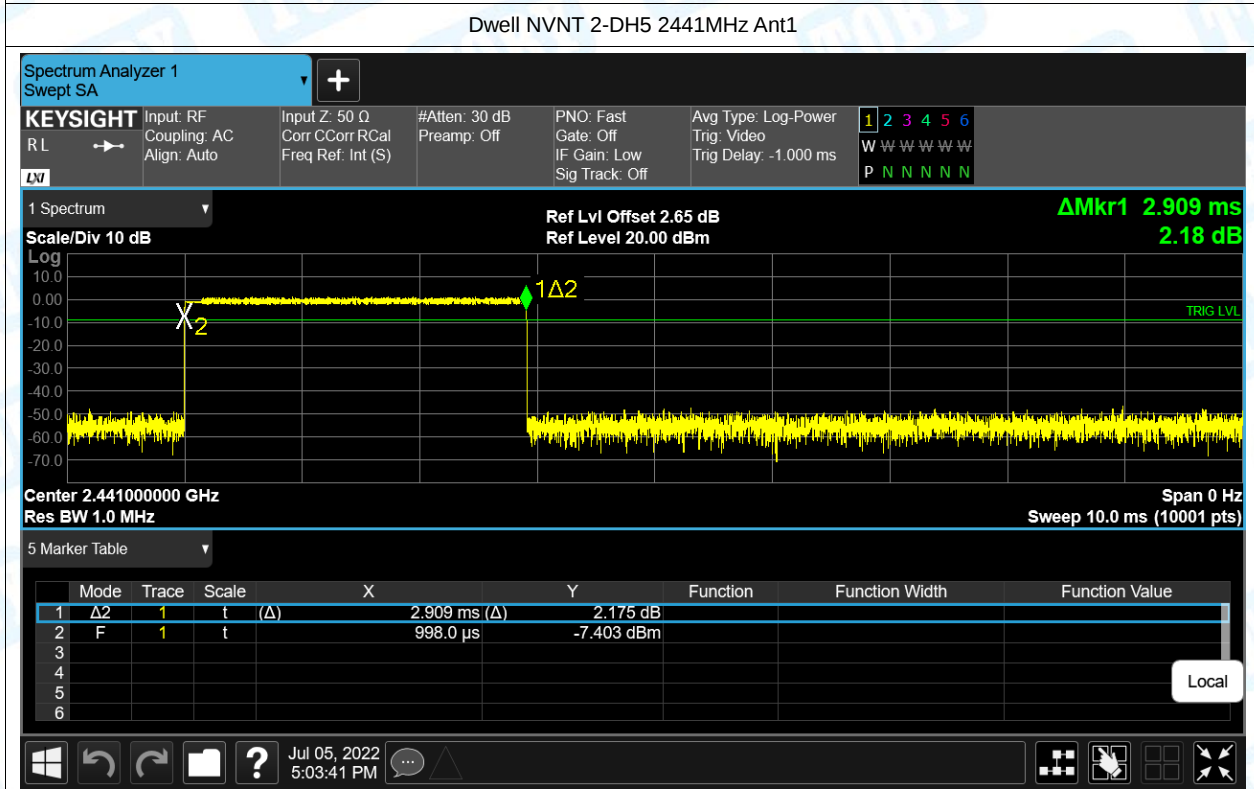
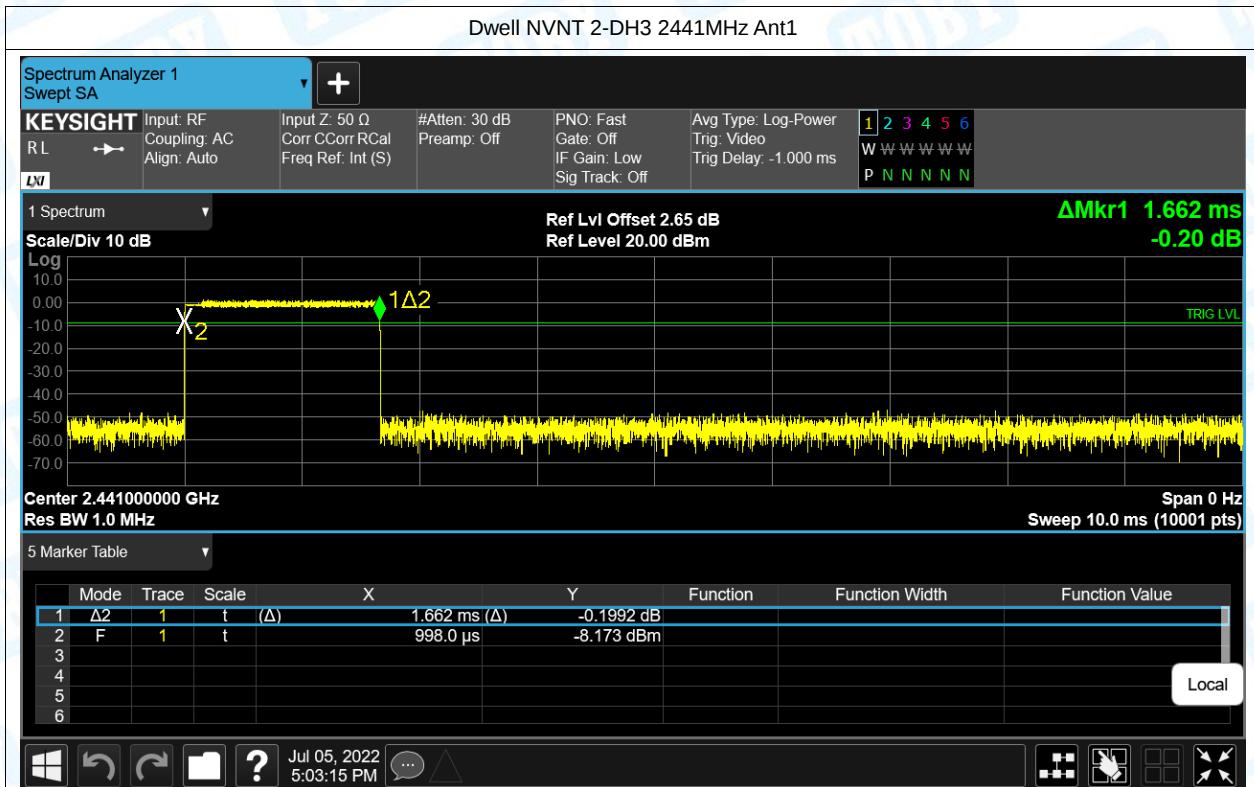
Dwell NVNT 1-DH1 2441MHz Ant1



Dwell NVNT 1-DH3 2441MHz Ant1







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