

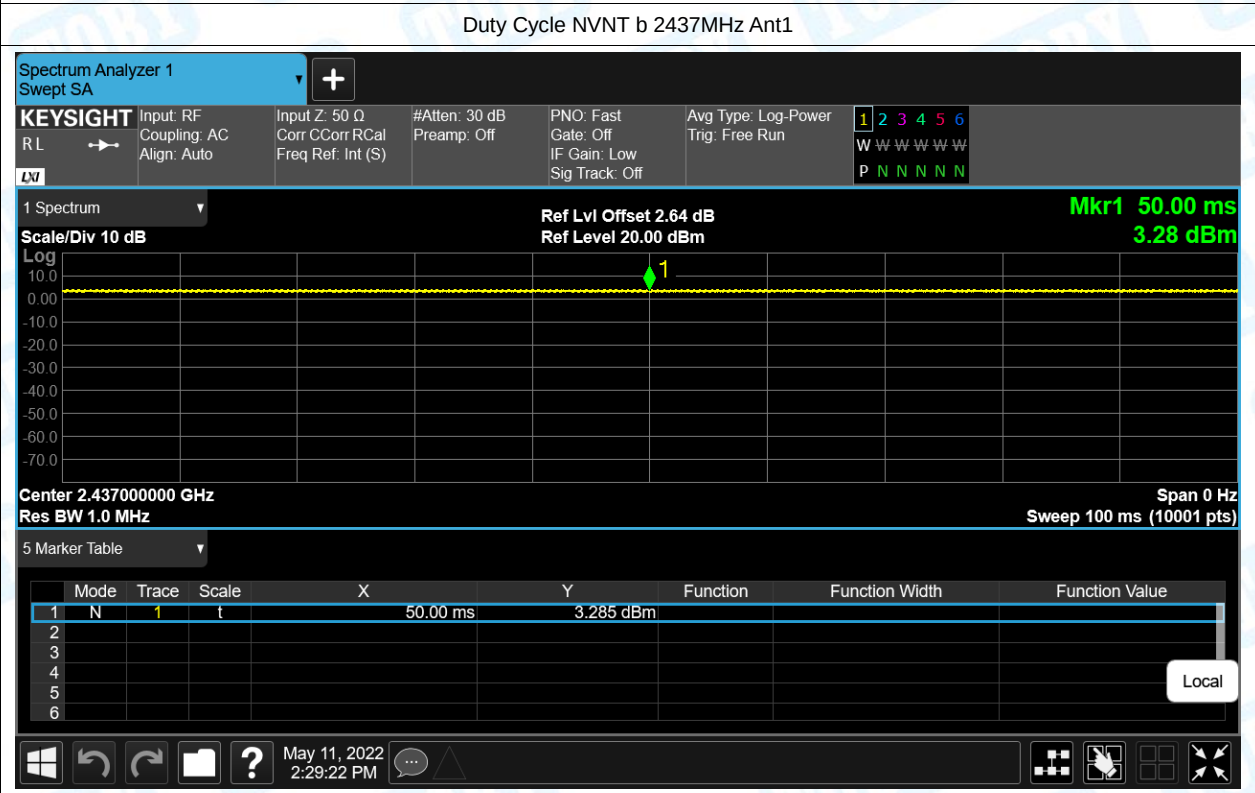
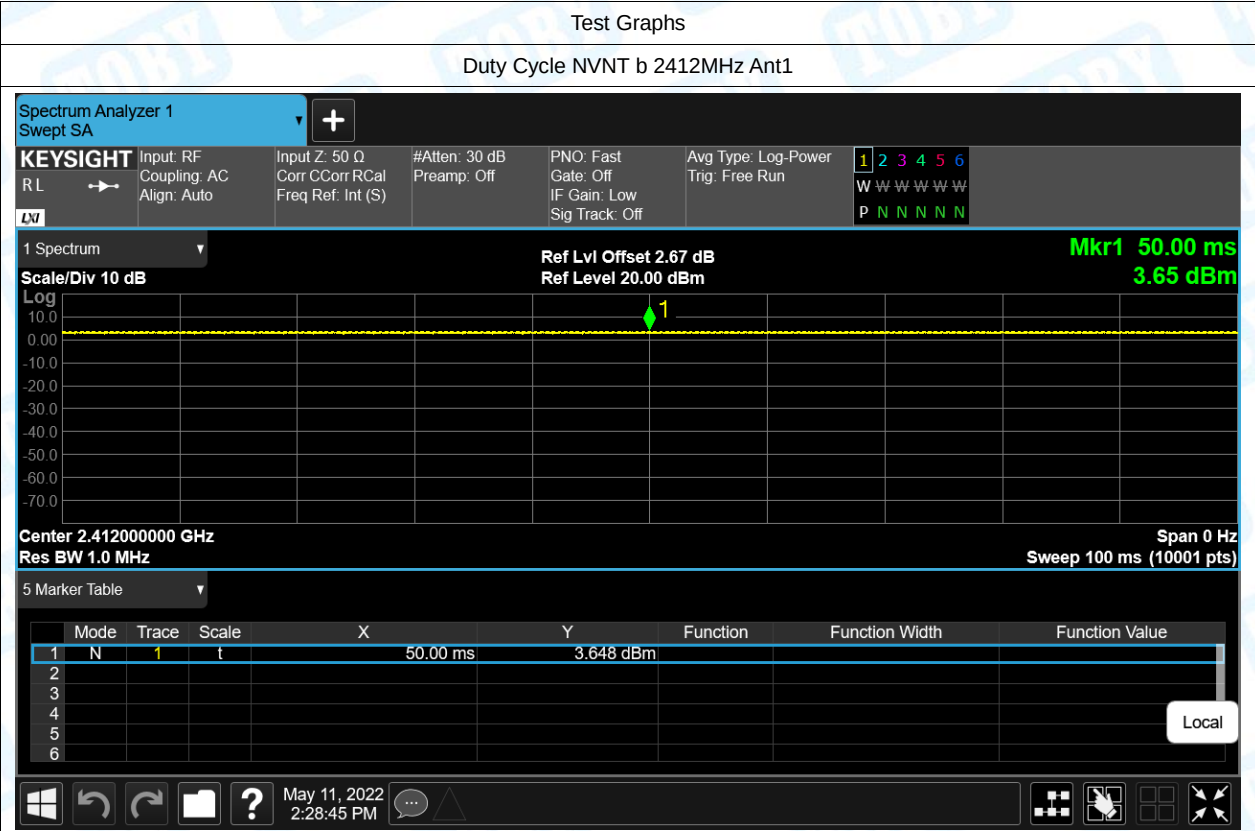
RF Test Data for 2.4G WiFi

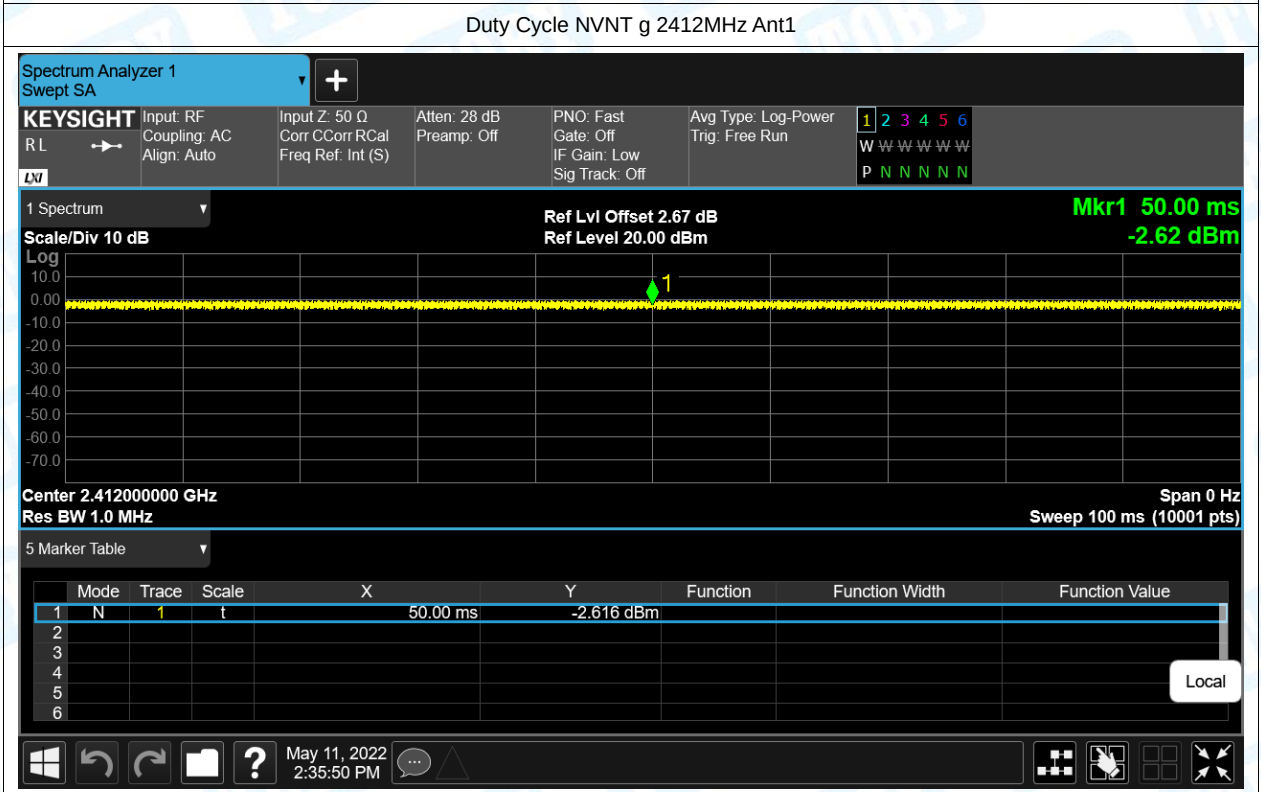
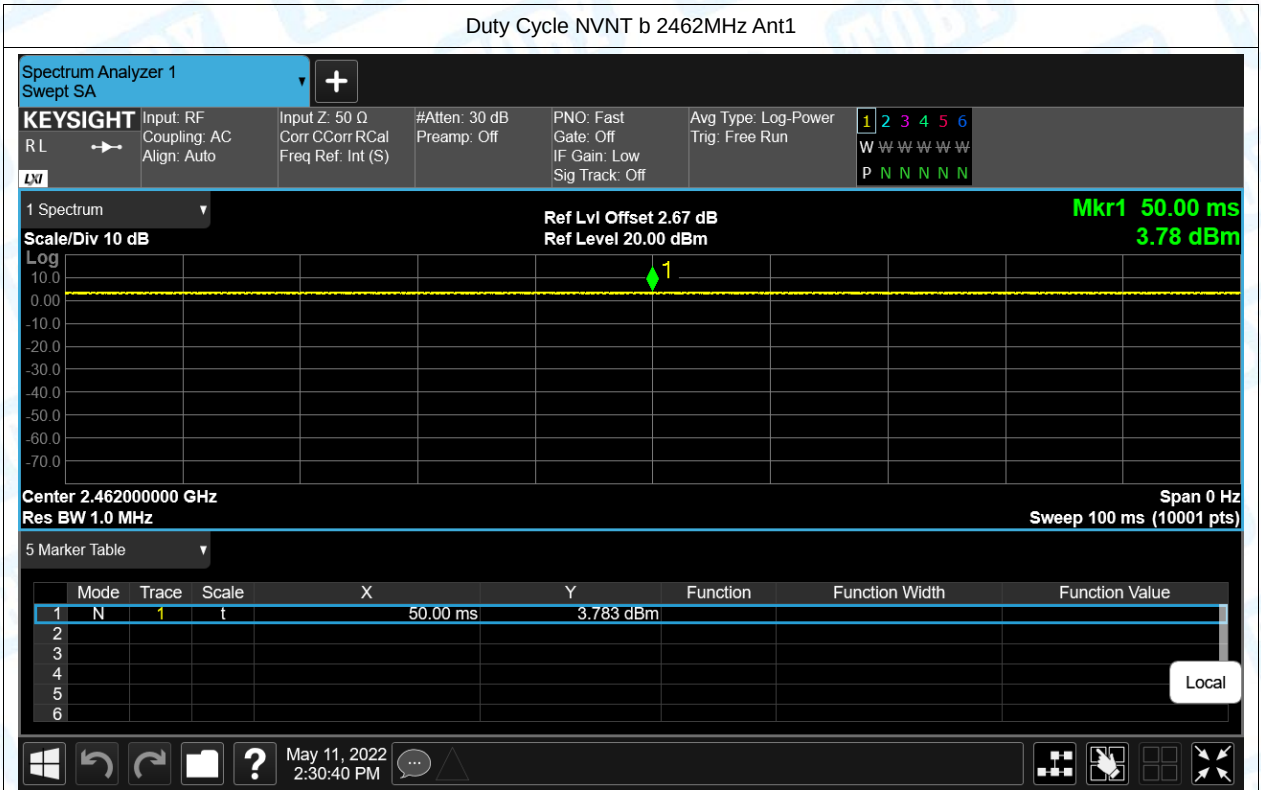
(Conducted Measurements)

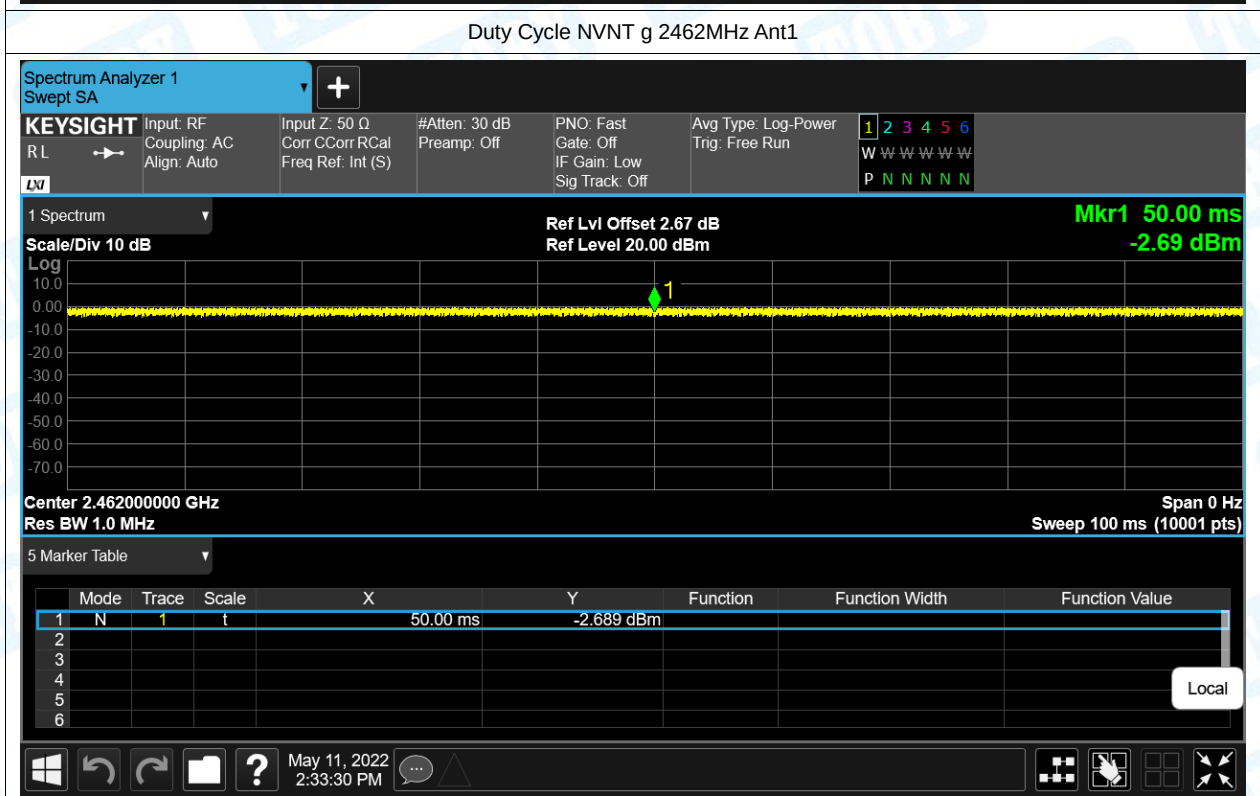
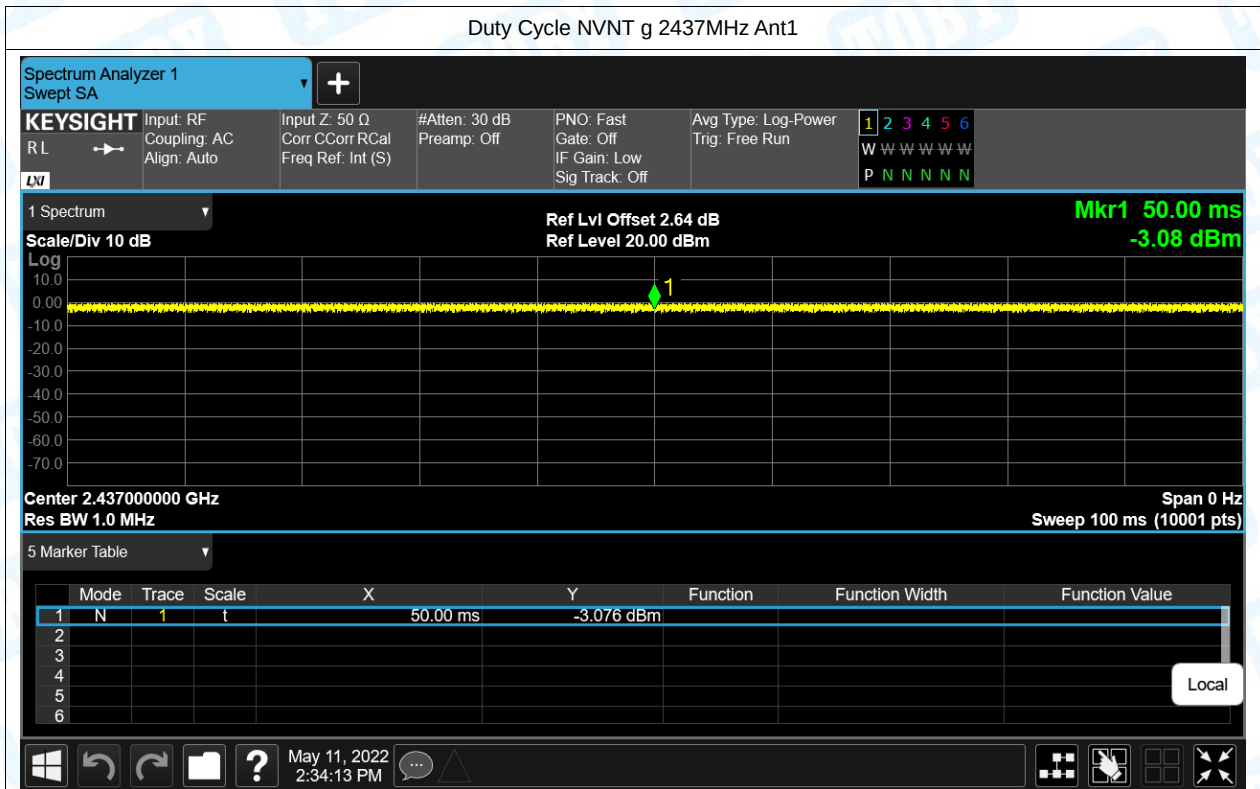
General Description of EUT	
Product Name:	Helmet Camera
Test Model:	INNOVV H5
Sample ID:	RW-C-202204-0161-3-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202204-0161-4	

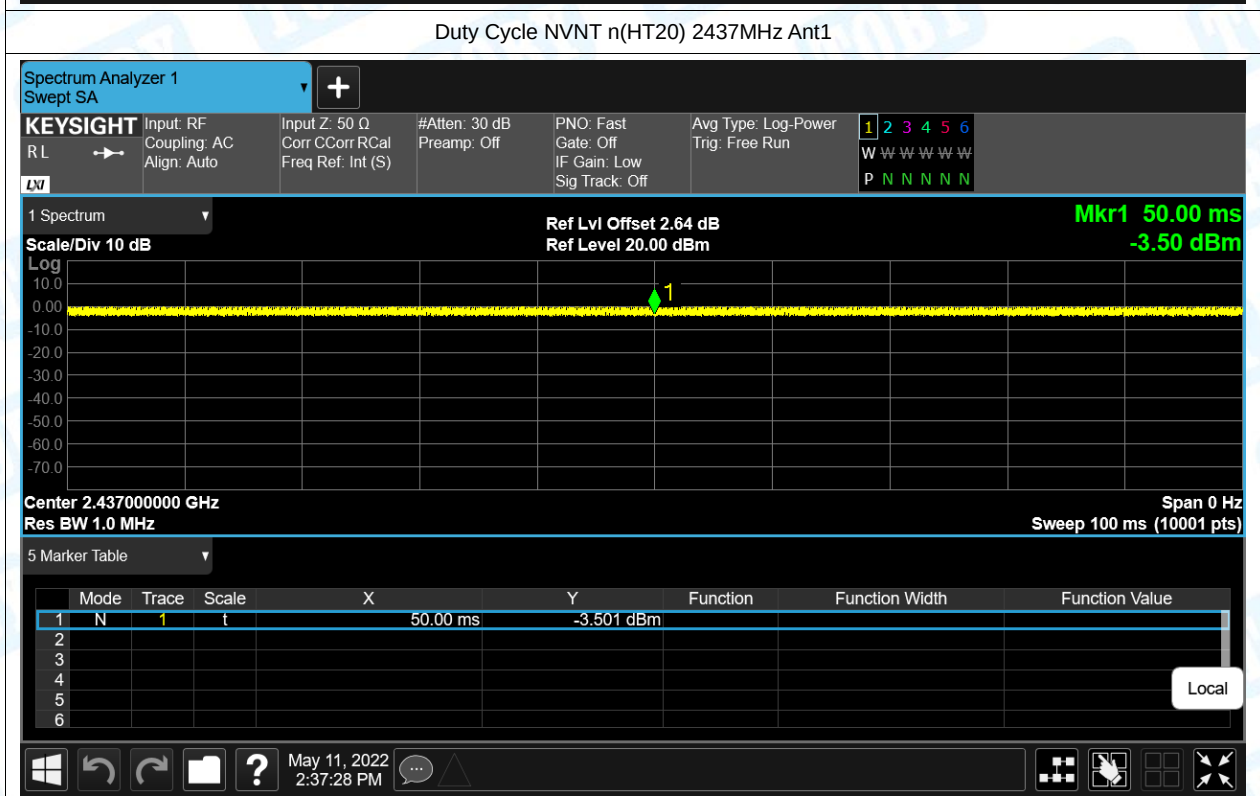
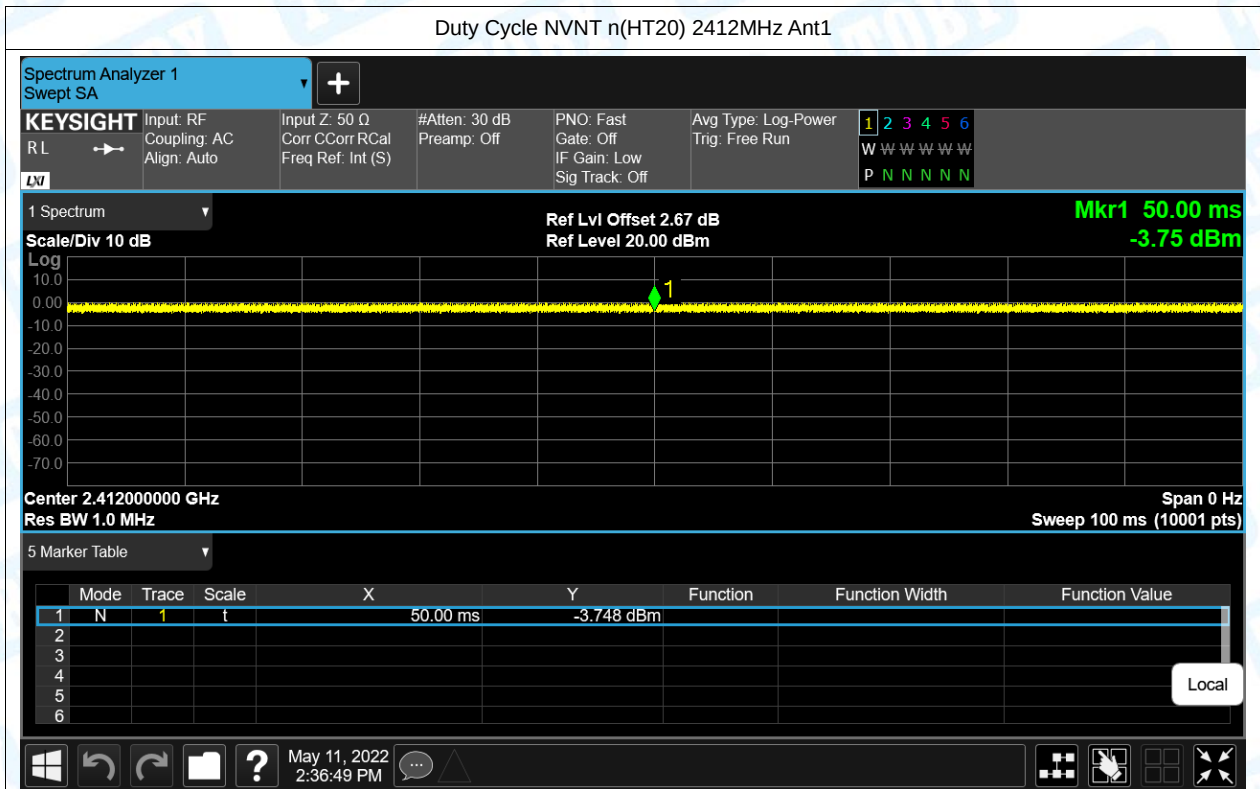
1. Duty Cycle

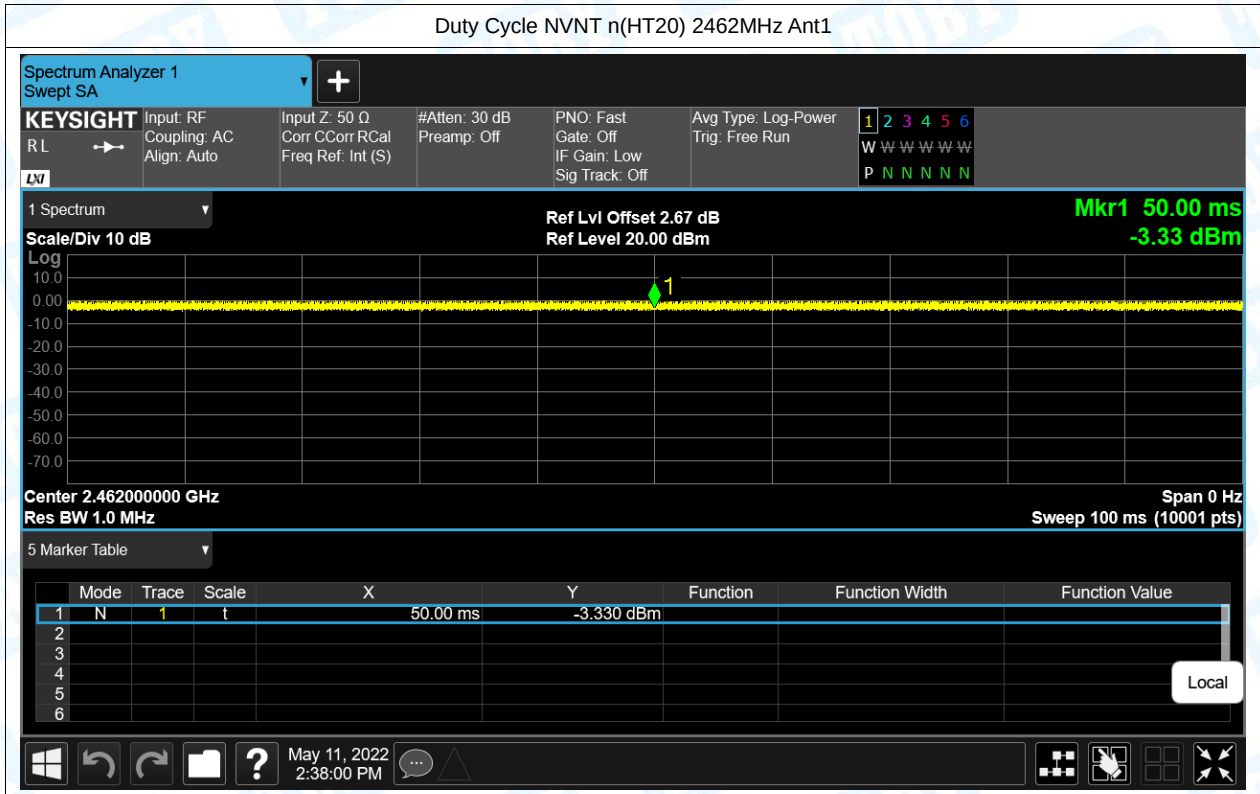
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n(HT20)	2412	Ant1	100	0	0
NVNT	n(HT20)	2437	Ant1	100	0	0
NVNT	n(HT20)	2462	Ant1	100	0	0











2. Maximum Conducted Output Power

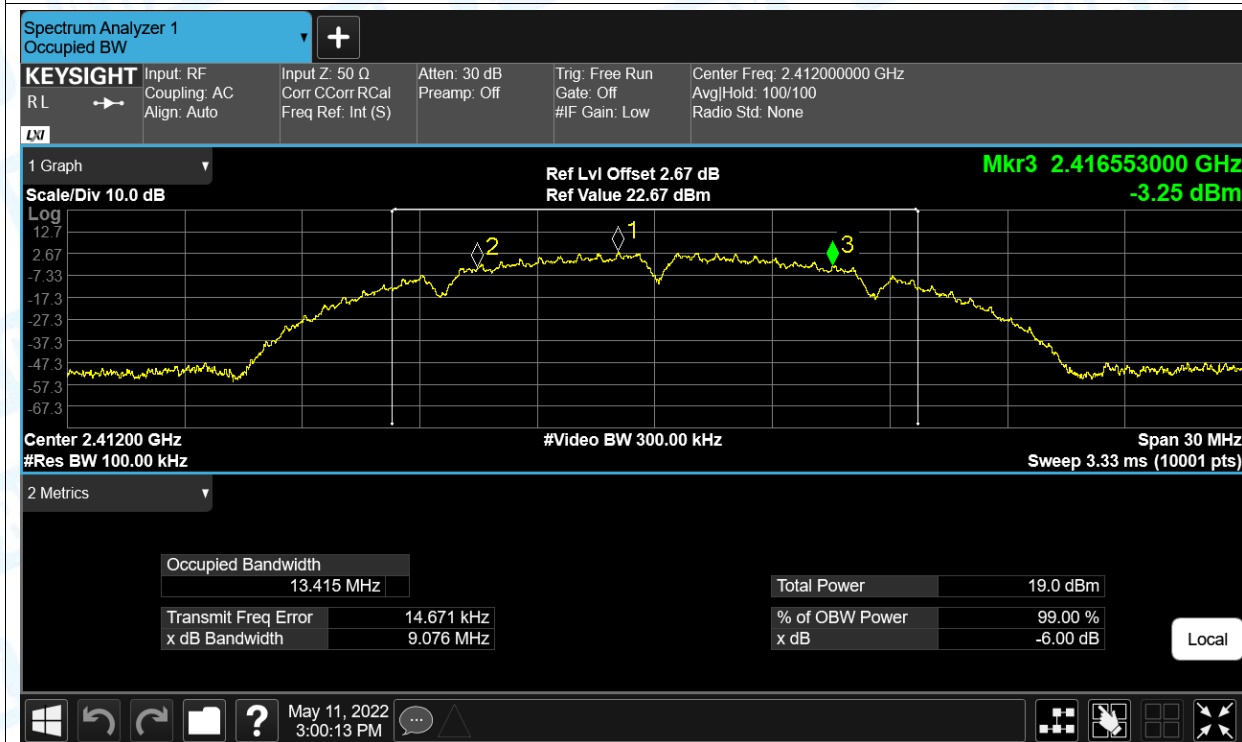
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	8.46	30	Pass
NVNT	b	2437	Ant1	8.71	30	Pass
NVNT	b	2462	Ant1	8.53	30	Pass
NVNT	g	2412	Ant1	8.61	30	Pass
NVNT	g	2437	Ant1	8.63	30	Pass
NVNT	g	2462	Ant1	8.58	30	Pass
NVNT	n(HT20)	2412	Ant1	8.67	30	Pass
NVNT	n(HT20)	2437	Ant1	8.89	30	Pass
NVNT	n(HT20)	2462	Ant1	8.88	30	Pass

3. -6dB Bandwidth

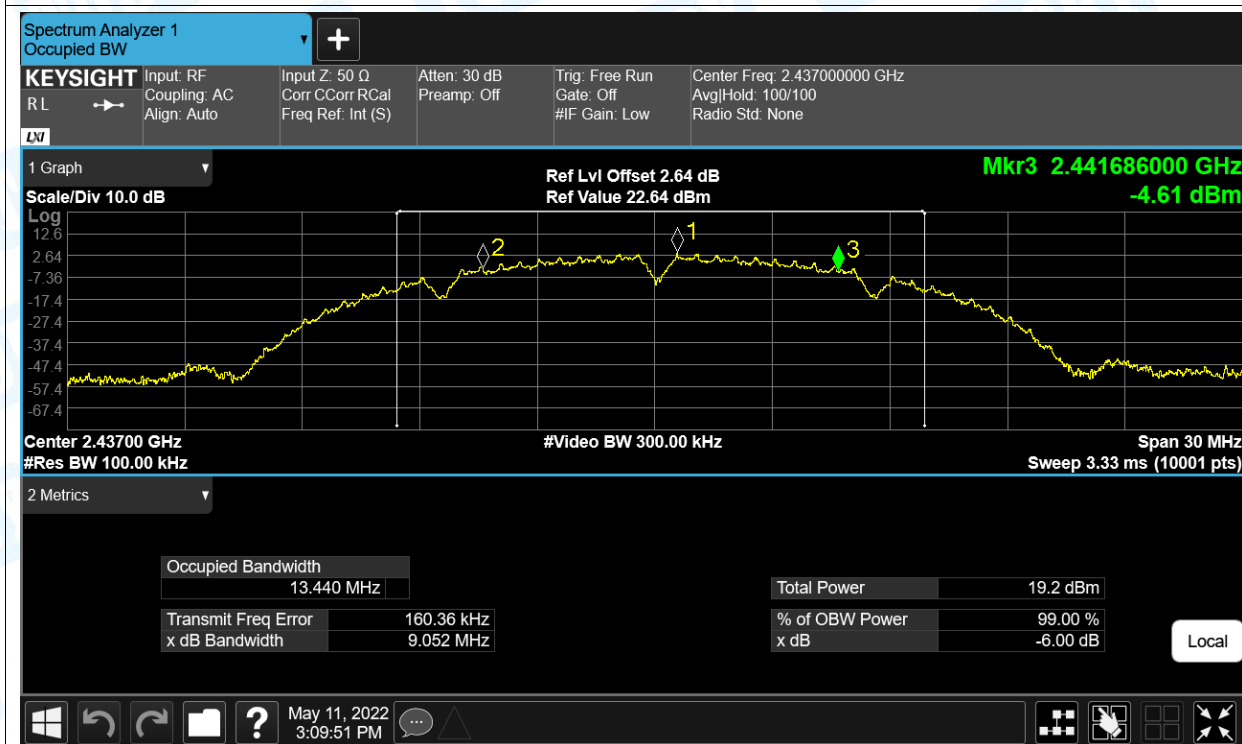
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.08	0.5	Pass
NVNT	b	2437	Ant1	9.05	0.5	Pass
NVNT	b	2462	Ant1	9.03	0.5	Pass
NVNT	g	2412	Ant1	16.55	0.5	Pass
NVNT	g	2437	Ant1	16.54	0.5	Pass
NVNT	g	2462	Ant1	16.56	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.67	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.74	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.79	0.5	Pass

Test Graphs

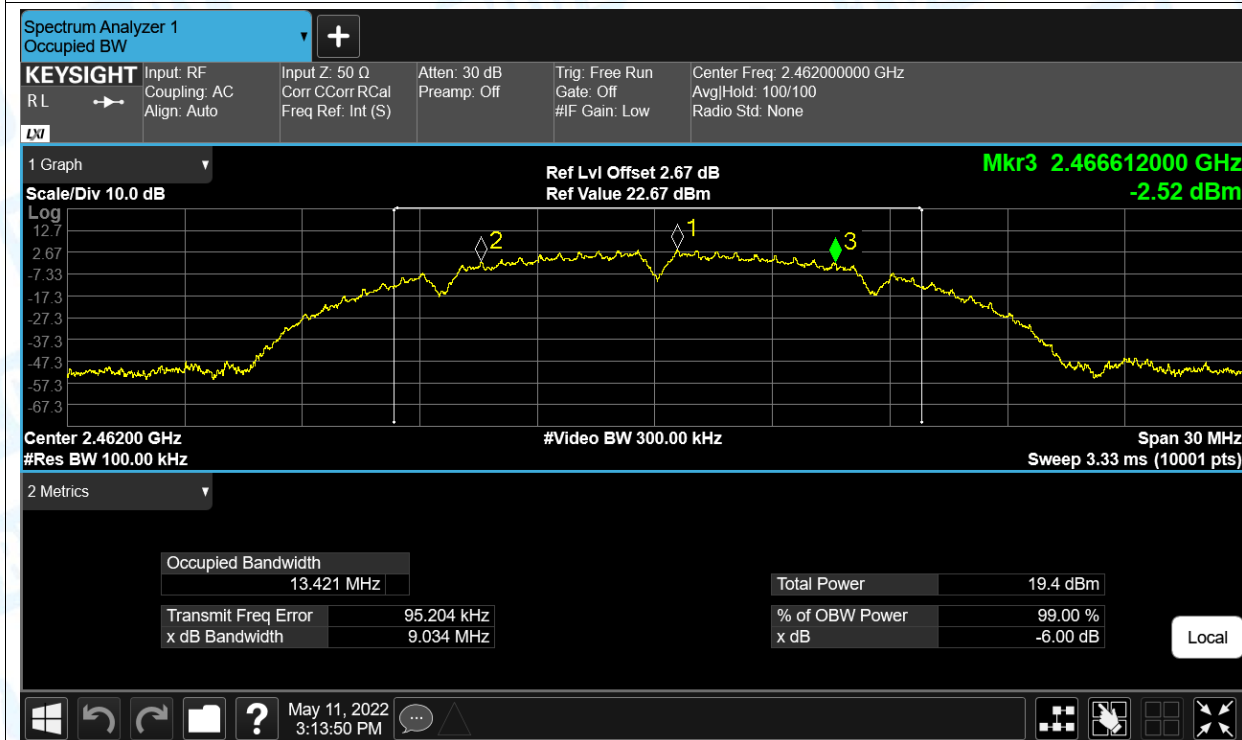
-6dB Bandwidth NVNT b 2412MHz Ant1



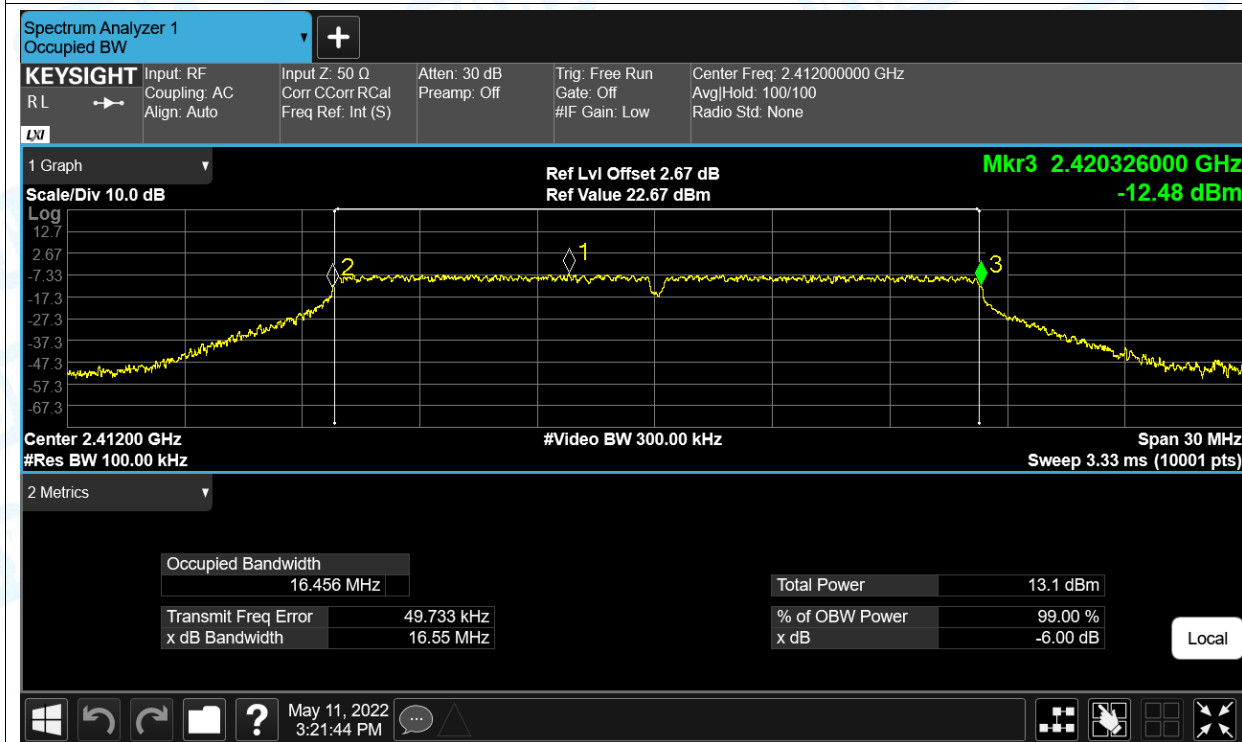
-6dB Bandwidth NVNT b 2437MHz Ant1

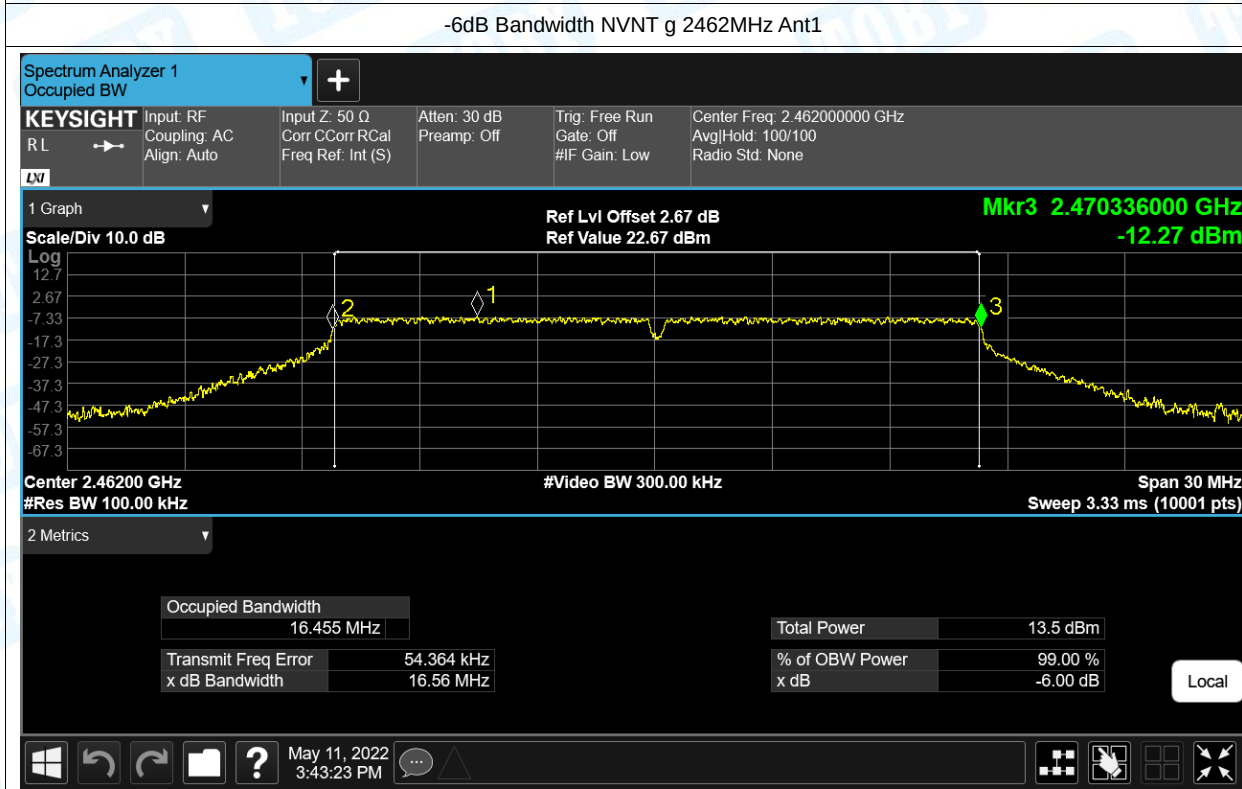
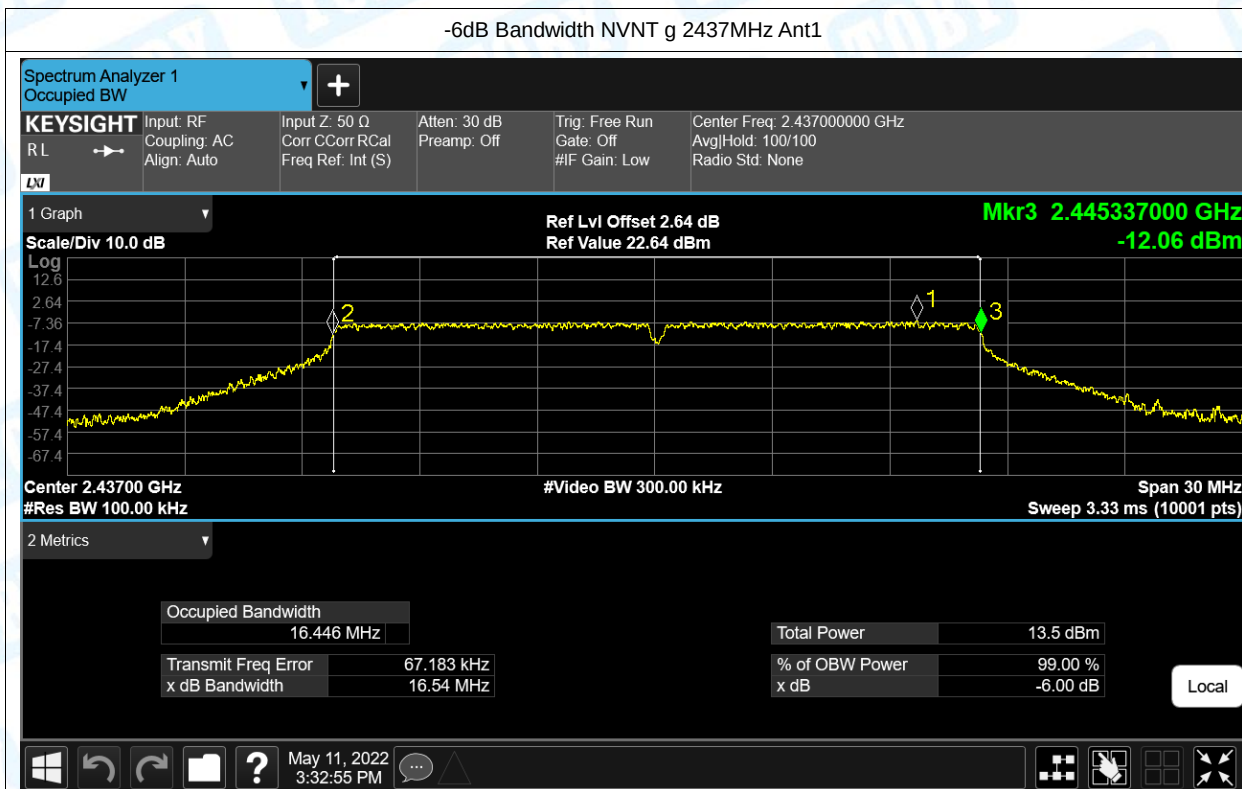


-6dB Bandwidth NVNT b 2462MHz Ant1

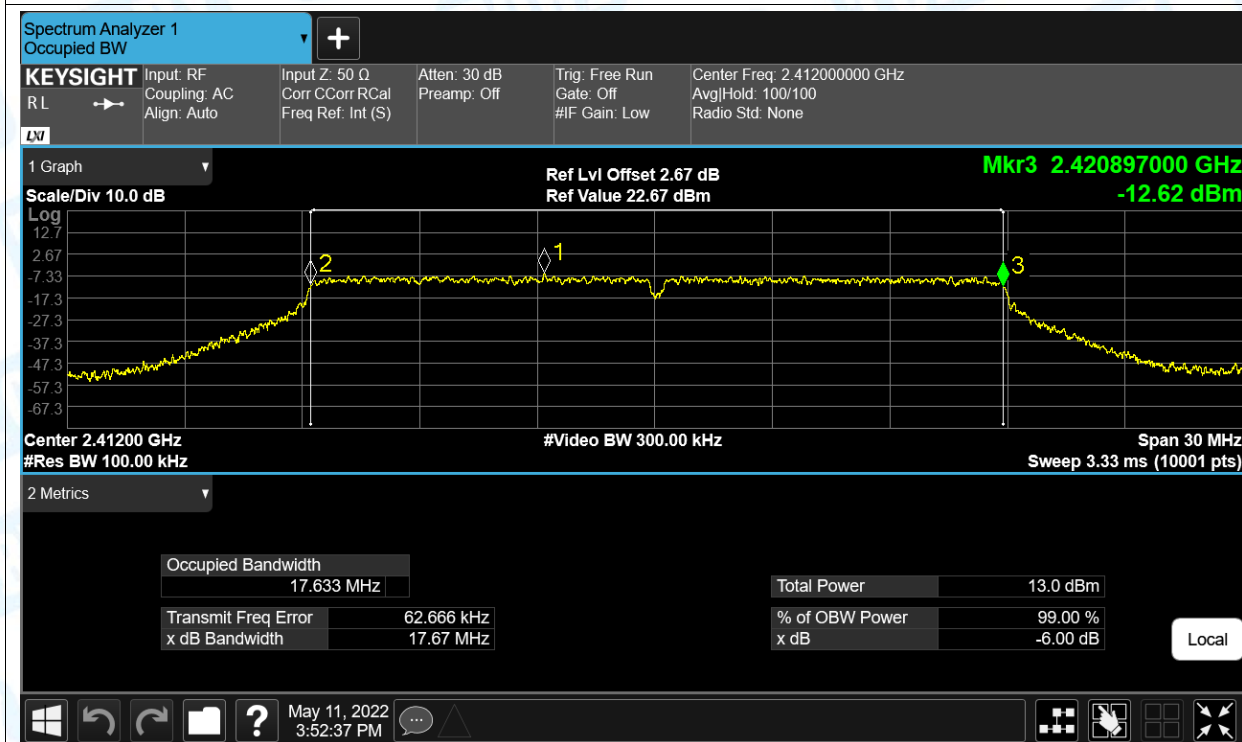


-6dB Bandwidth NVNT g 2412MHz Ant1

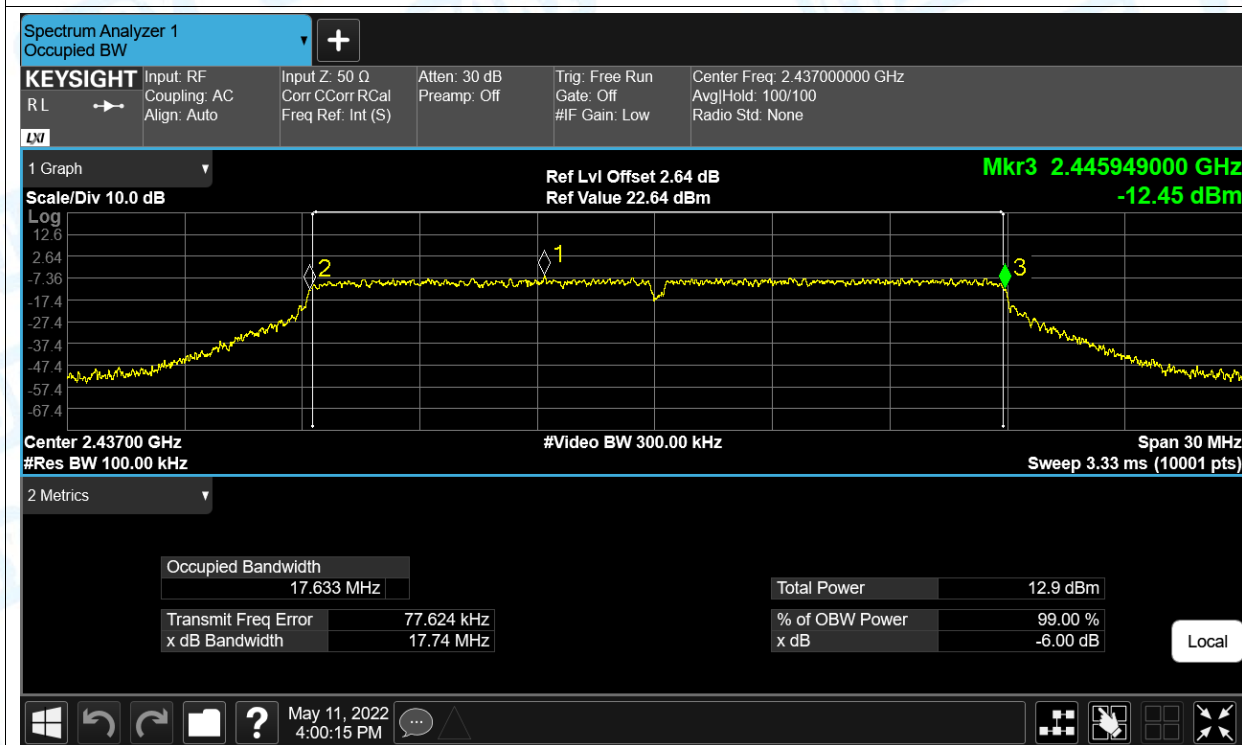


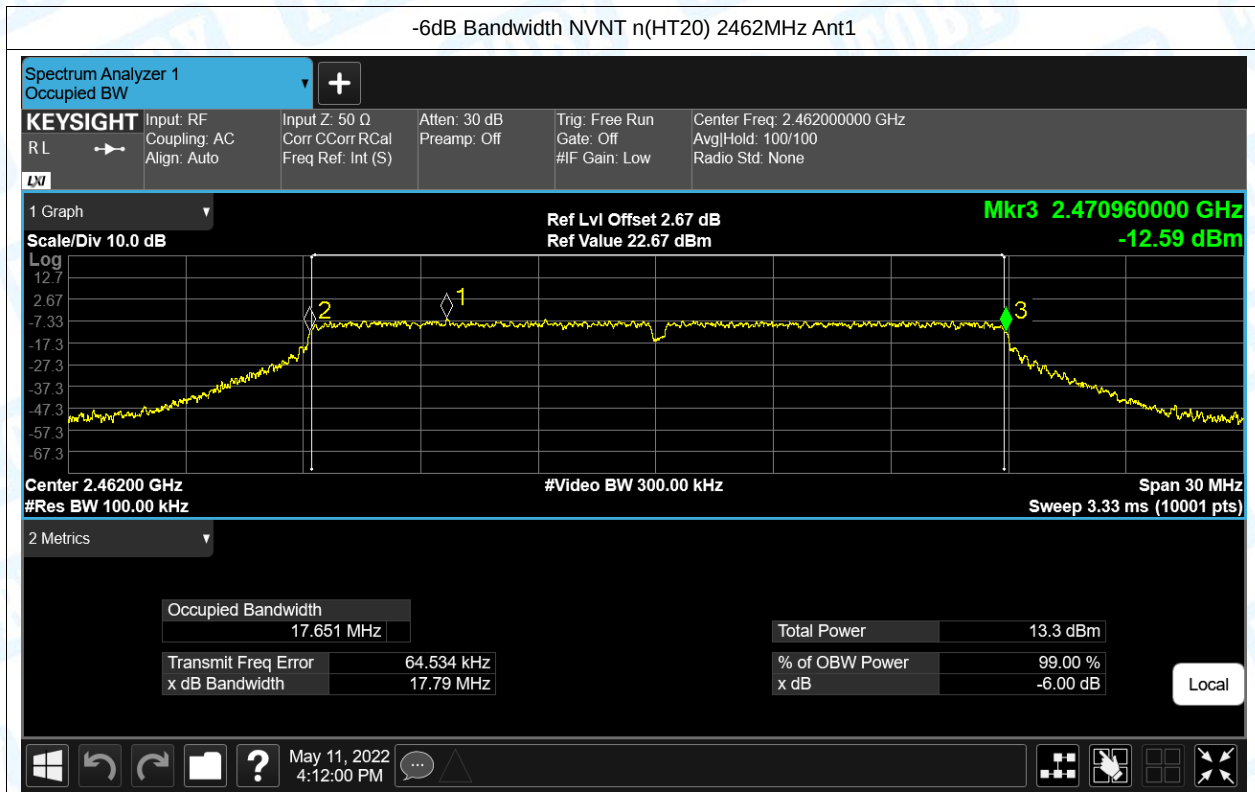


-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



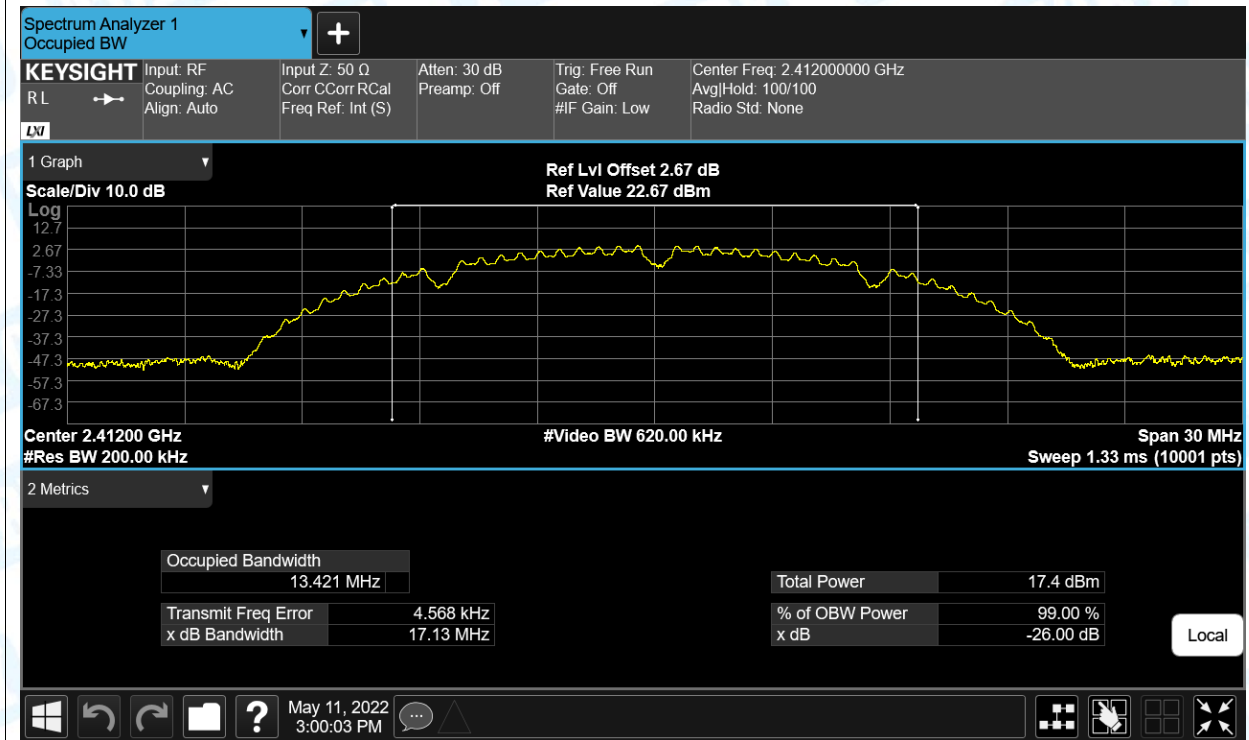


4. Occupied Channel Bandwidth

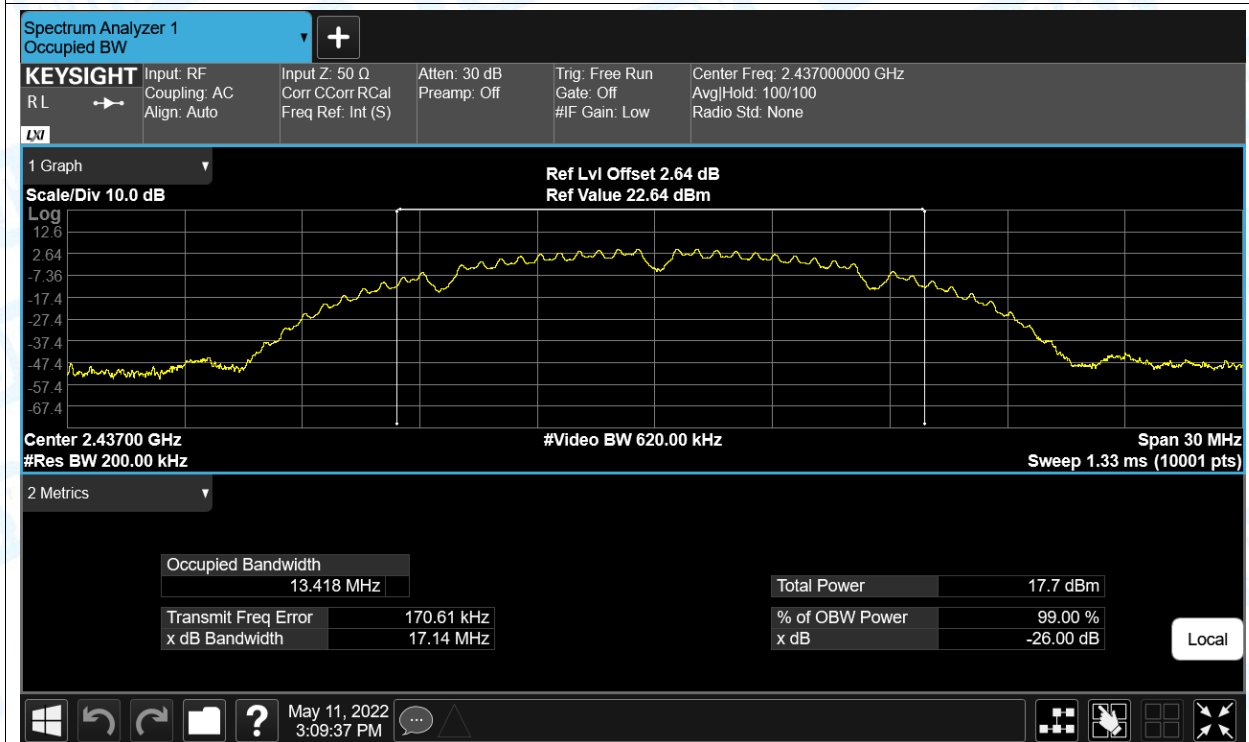
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.421
NVNT	b	2437	Ant1	13.418
NVNT	b	2462	Ant1	13.432
NVNT	g	2412	Ant1	16.555
NVNT	g	2437	Ant1	16.54
NVNT	g	2462	Ant1	16.558
NVNT	n(HT20)	2412	Ant1	17.722
NVNT	n(HT20)	2437	Ant1	17.711
NVNT	n(HT20)	2462	Ant1	17.724

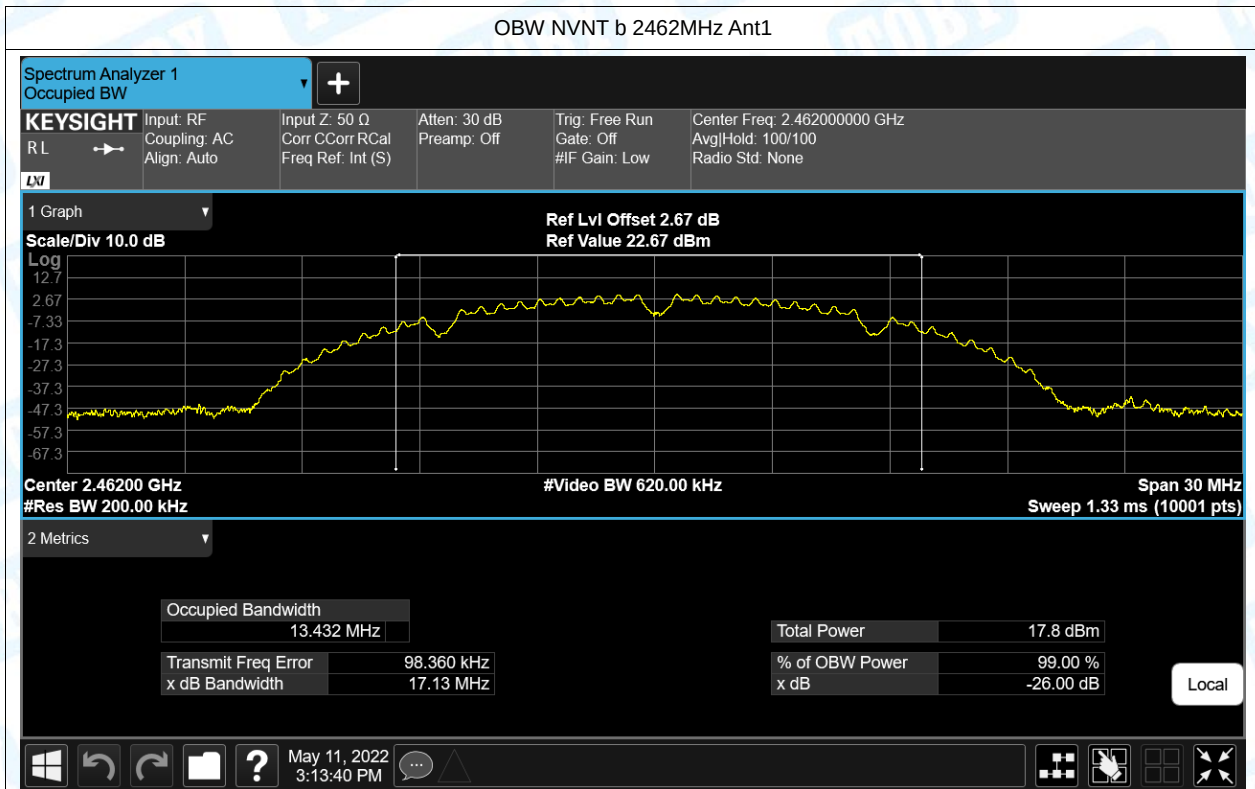
Test Graphs

OBW NVNT b 2412MHz Ant1

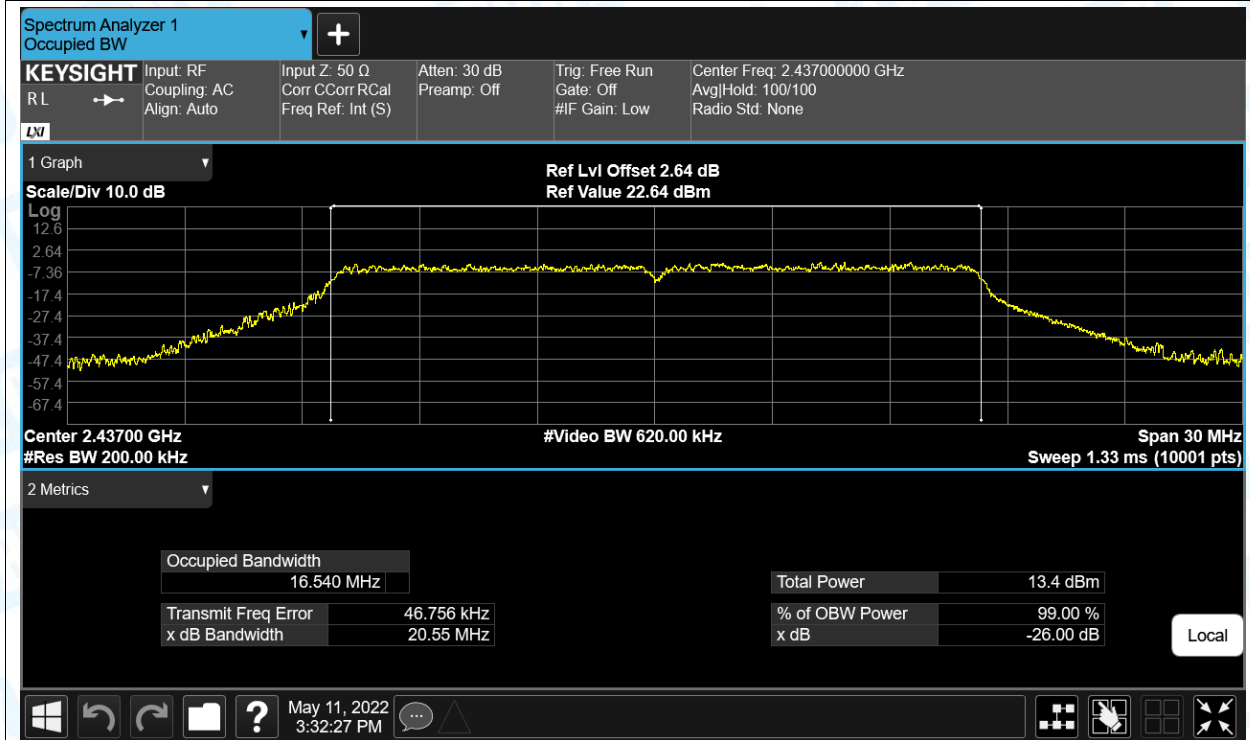


OBW NVNT b 2437MHz Ant1

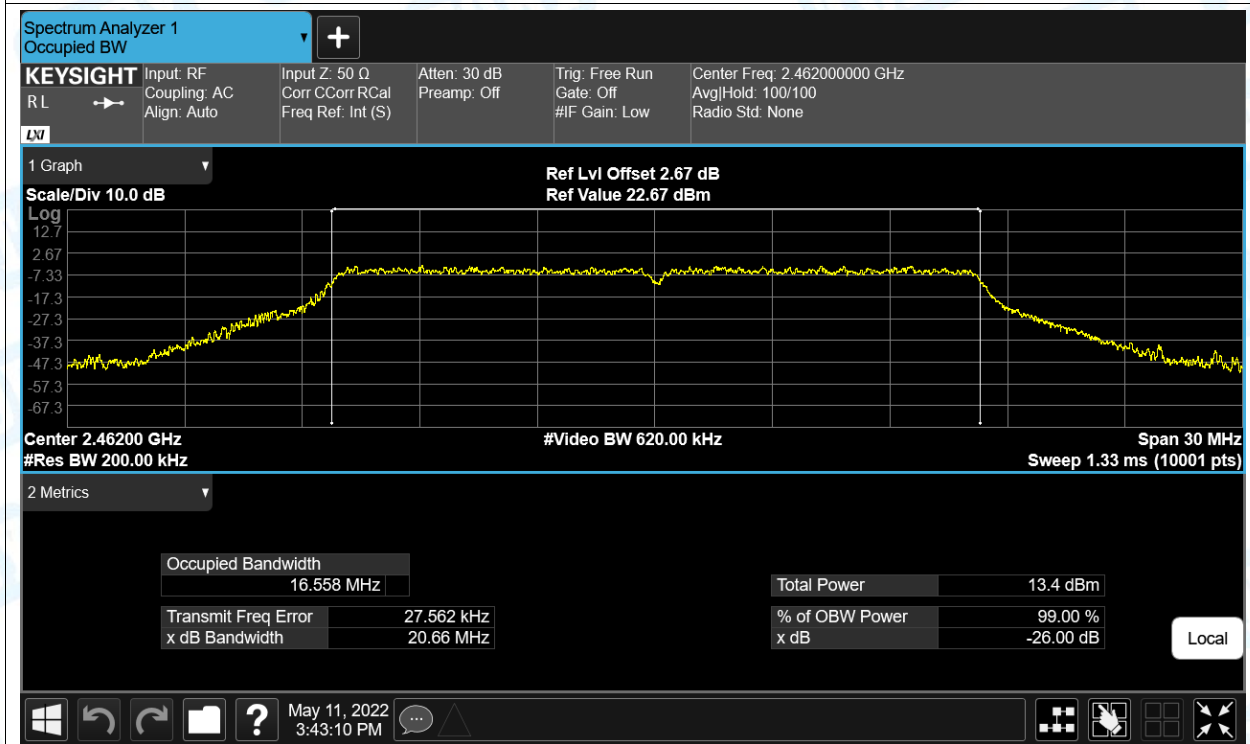




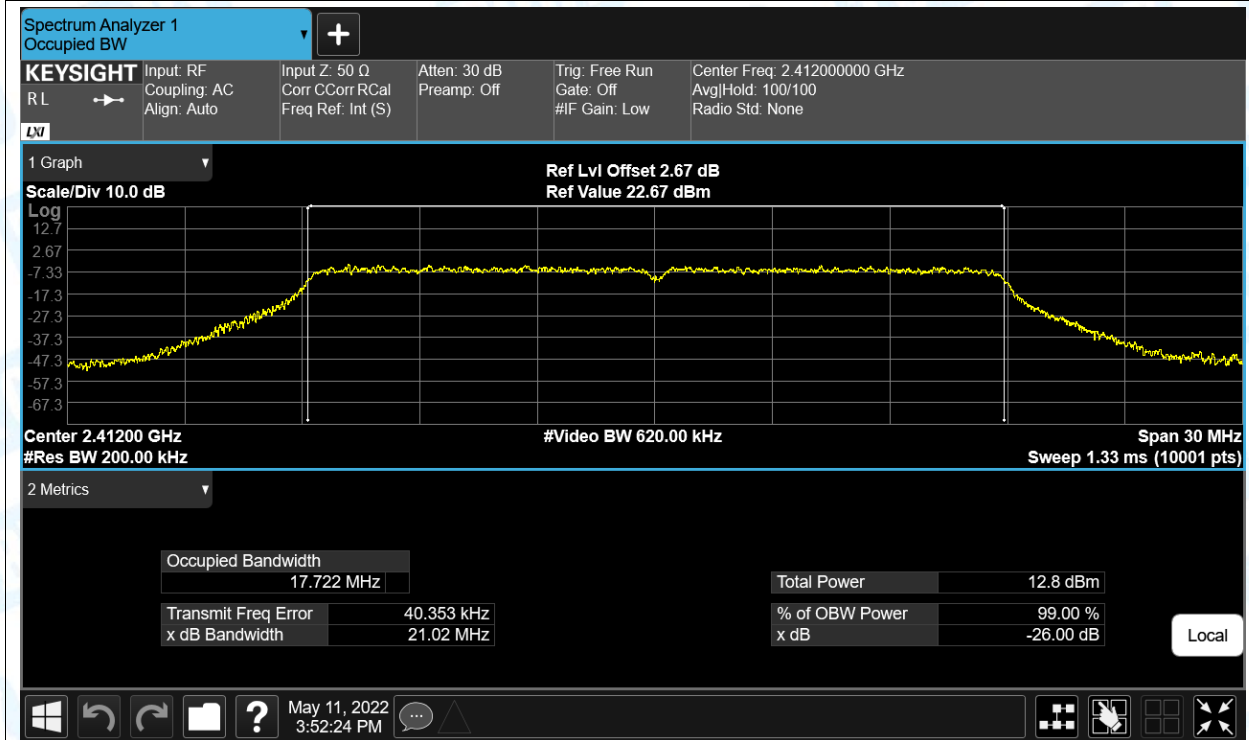
OBW NVNT g 2437MHz Ant1



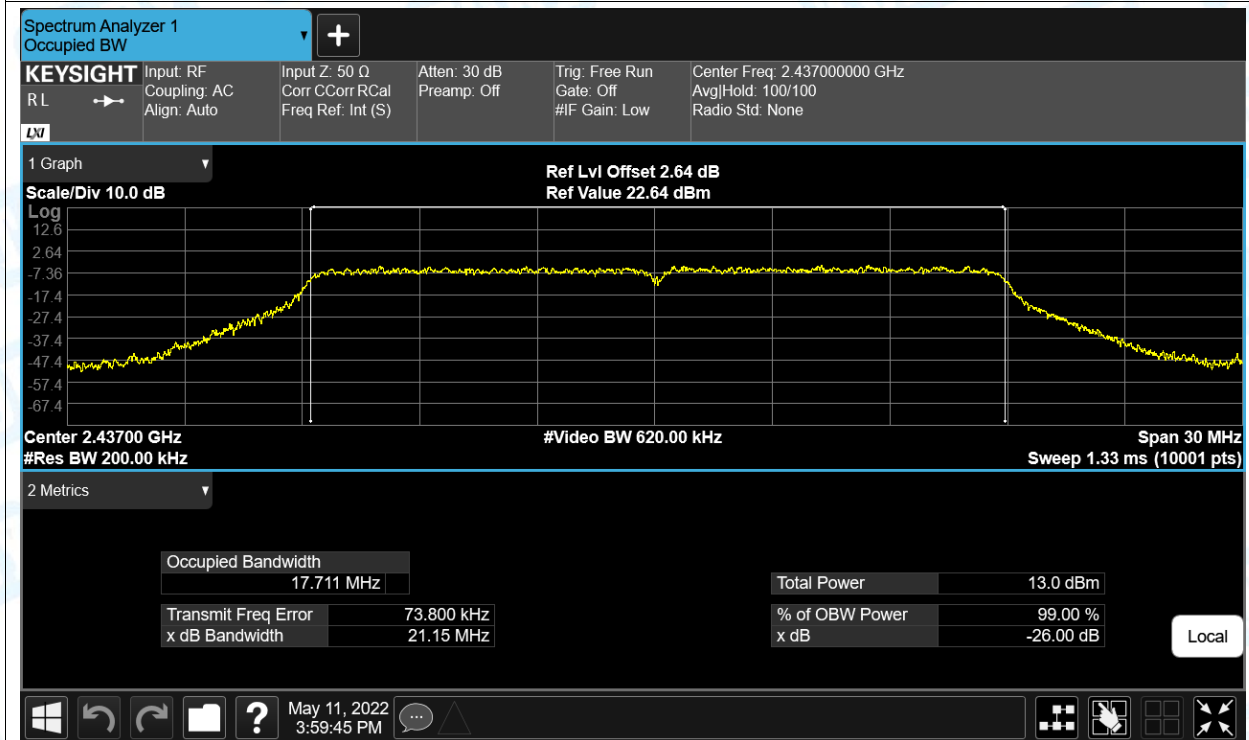
OBW NVNT g 2462MHz Ant1

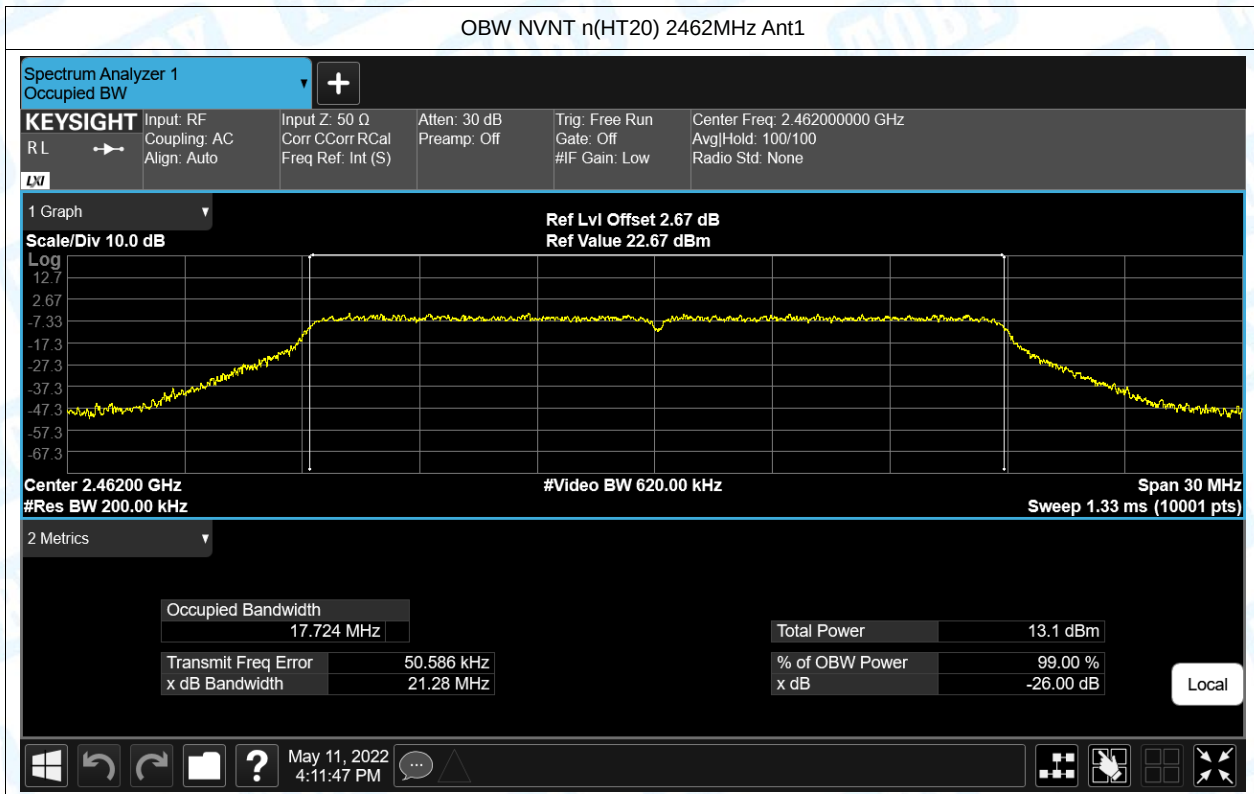


OBW NVNT n(HT20) 2412MHz Ant1



OBW NVNT n(HT20) 2437MHz Ant1





5. Maximum Power Spectral Density Level

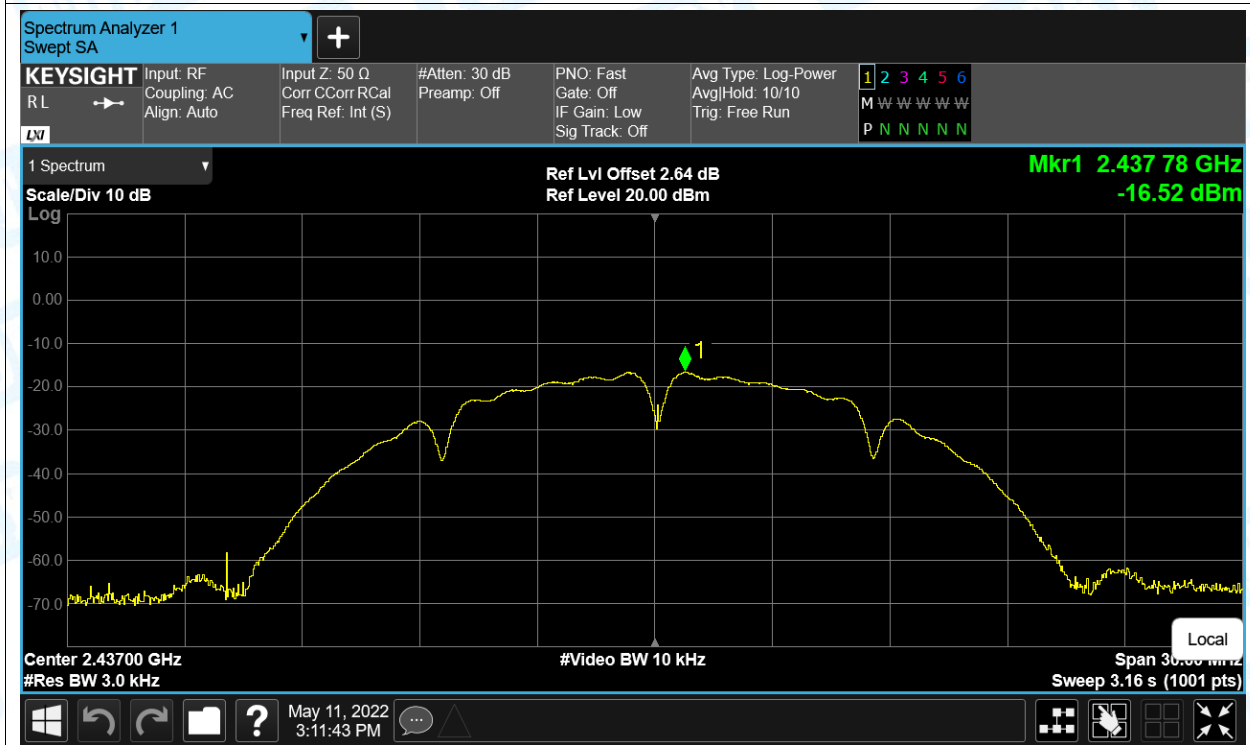
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-15.896	8	Pass
NVNT	b	2437	Ant1	-16.524	8	Pass
NVNT	b	2462	Ant1	-16.549	8	Pass
NVNT	g	2412	Ant1	-21.081	8	Pass
NVNT	g	2437	Ant1	-20.473	8	Pass
NVNT	g	2462	Ant1	-20.488	8	Pass
NVNT	n(HT20)	2412	Ant1	-19.968	8	Pass
NVNT	n(HT20)	2437	Ant1	-20.194	8	Pass
NVNT	n(HT20)	2462	Ant1	-19.987	8	Pass

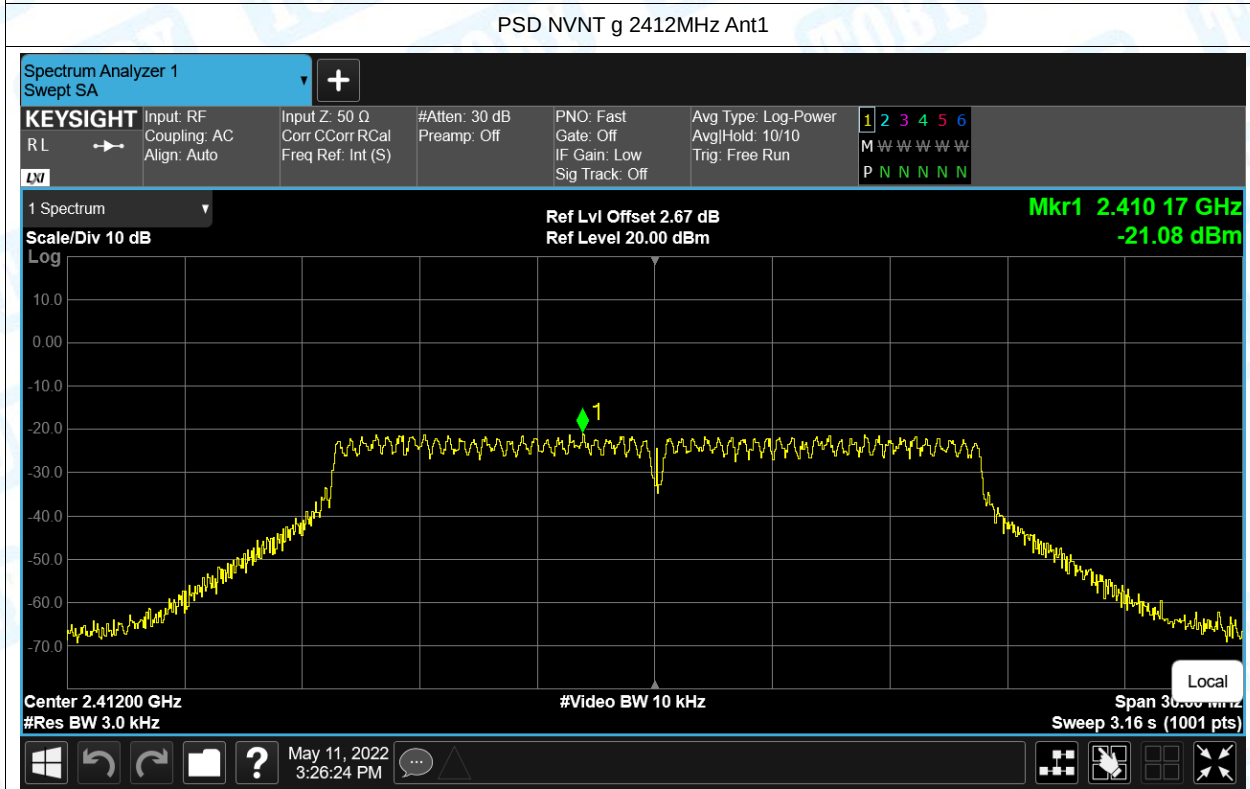
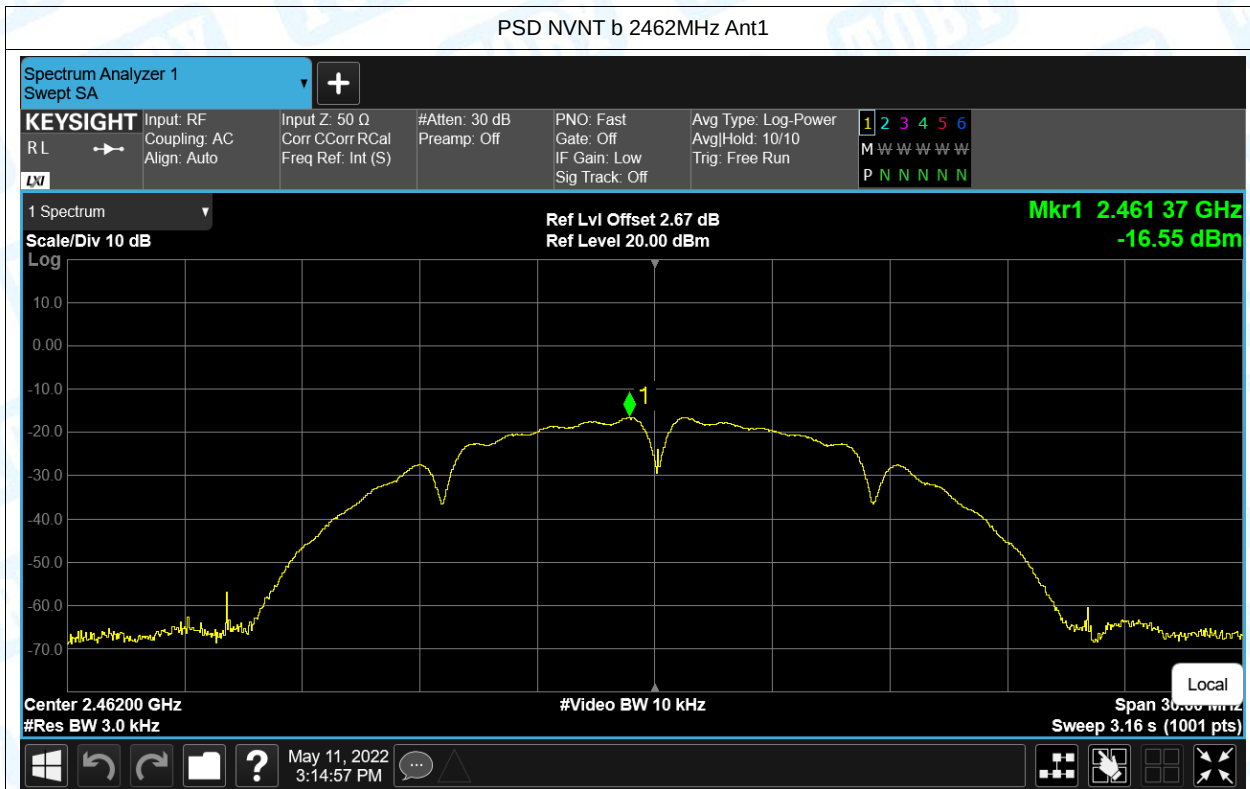
Test Graphs

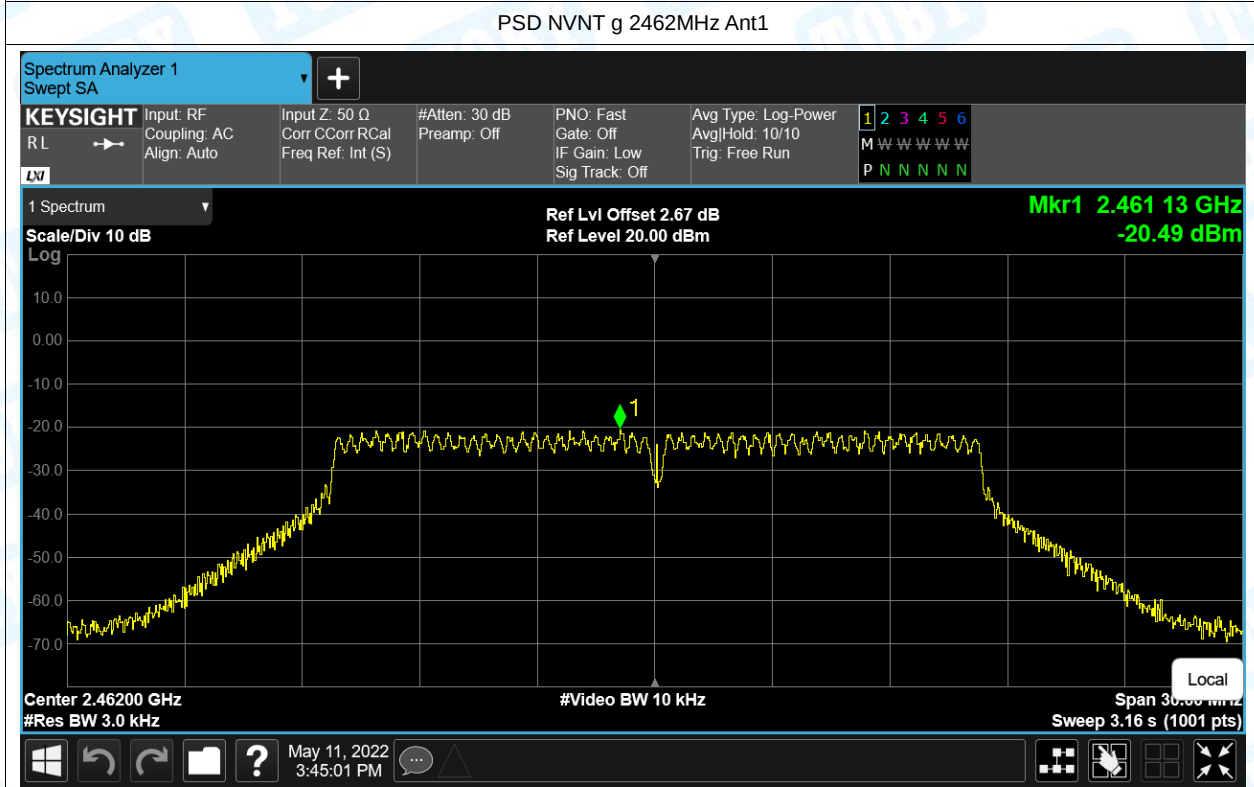
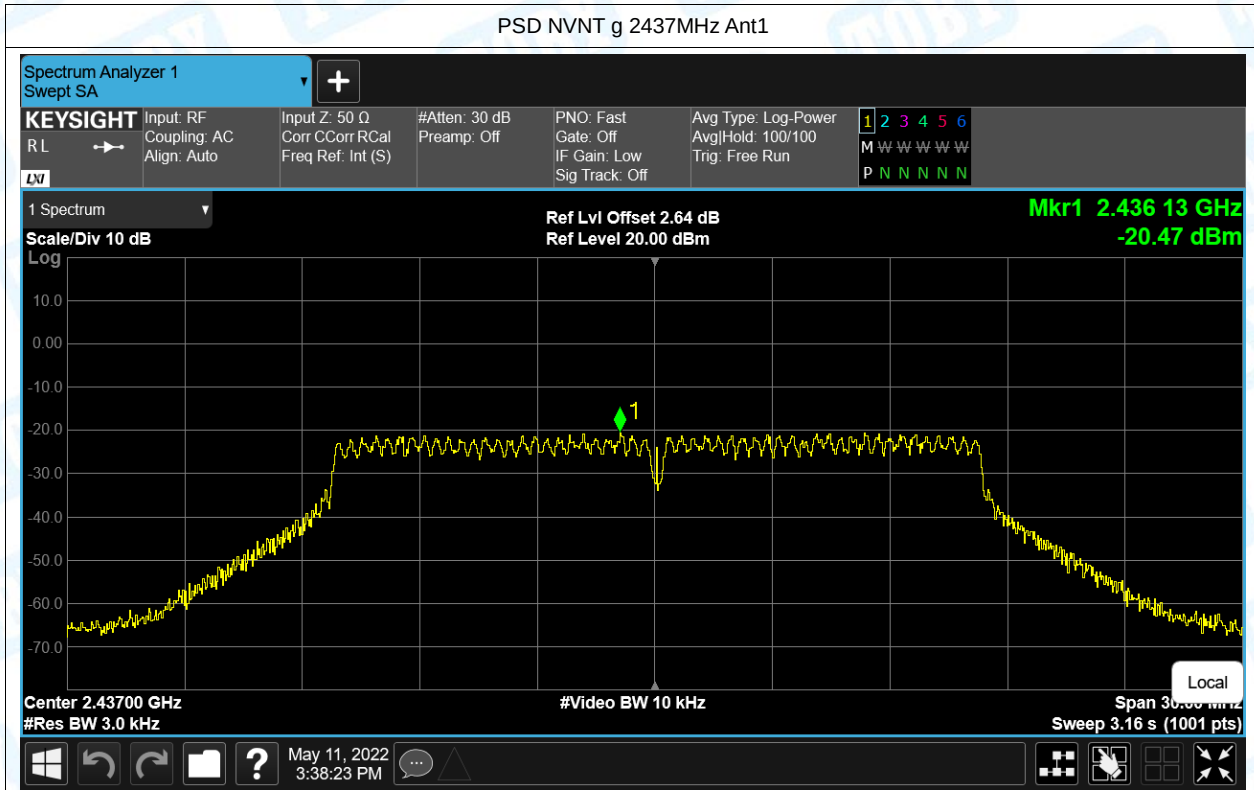
PSD NVNT b 2412MHz Ant1

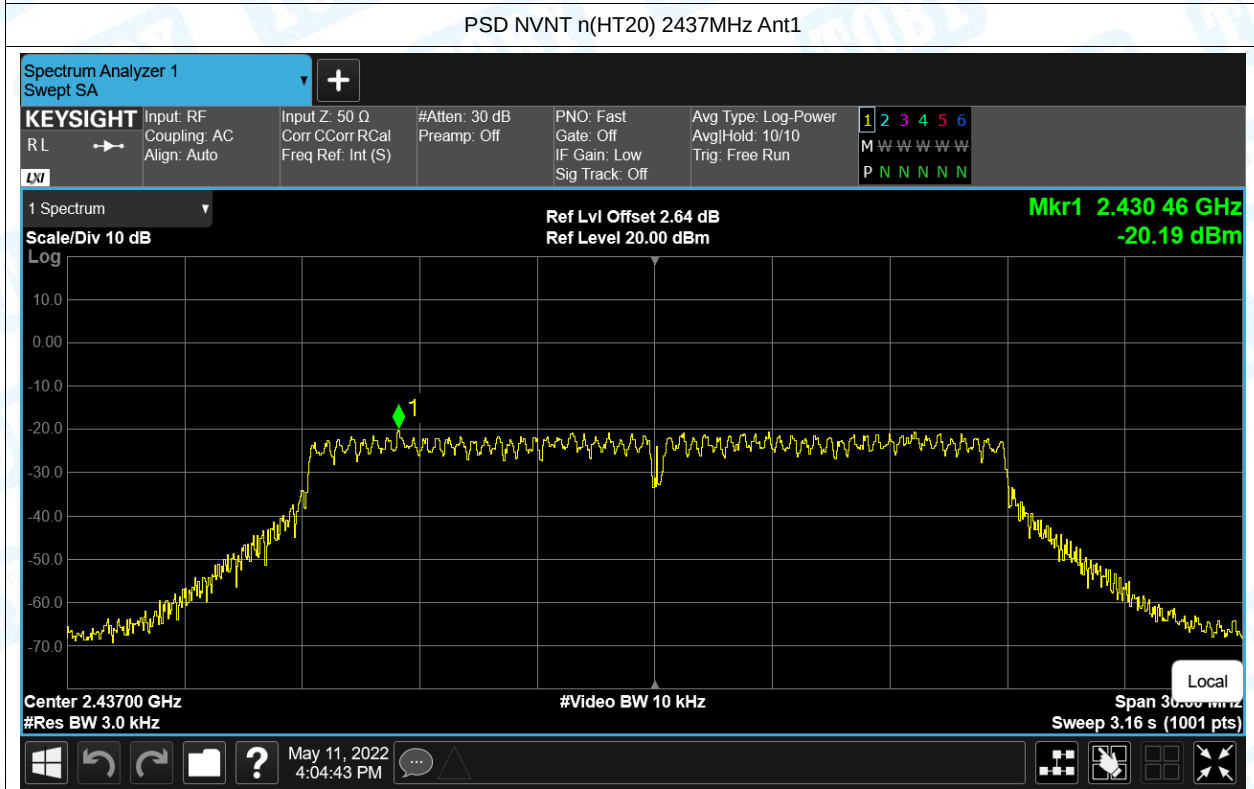
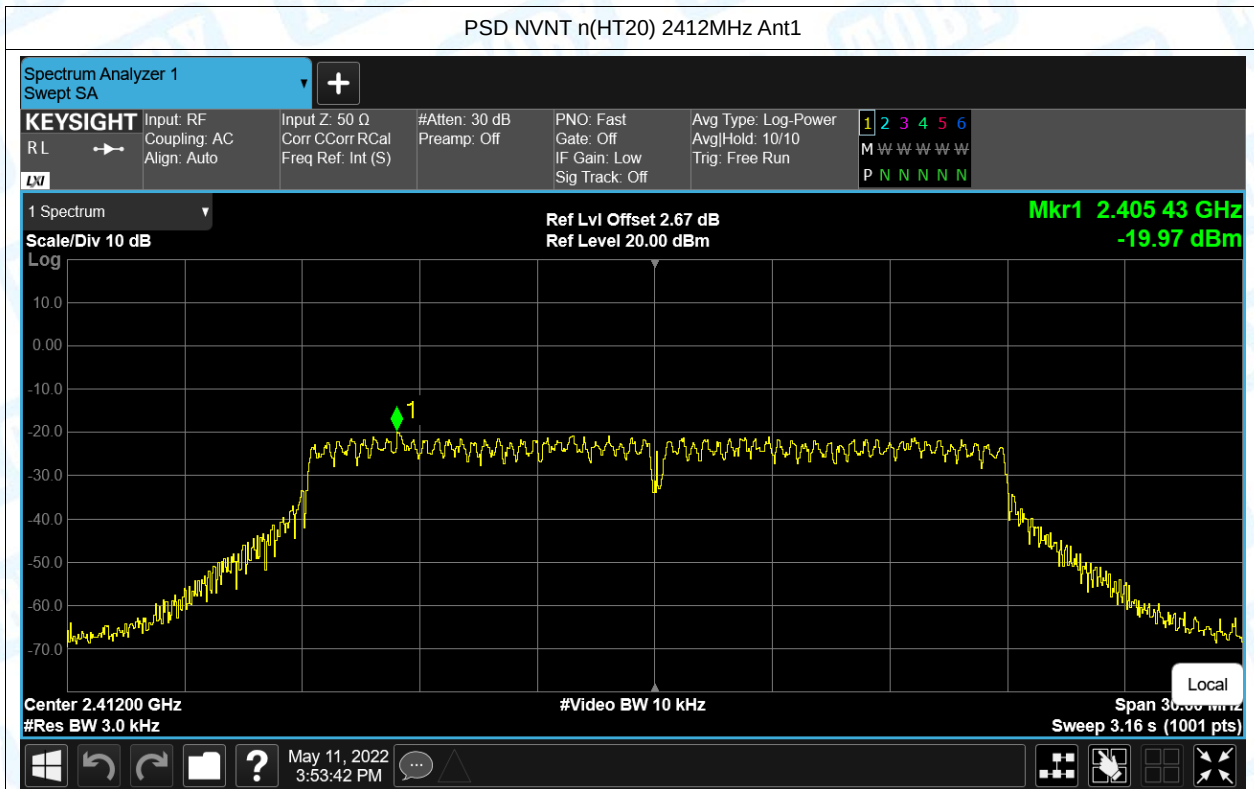


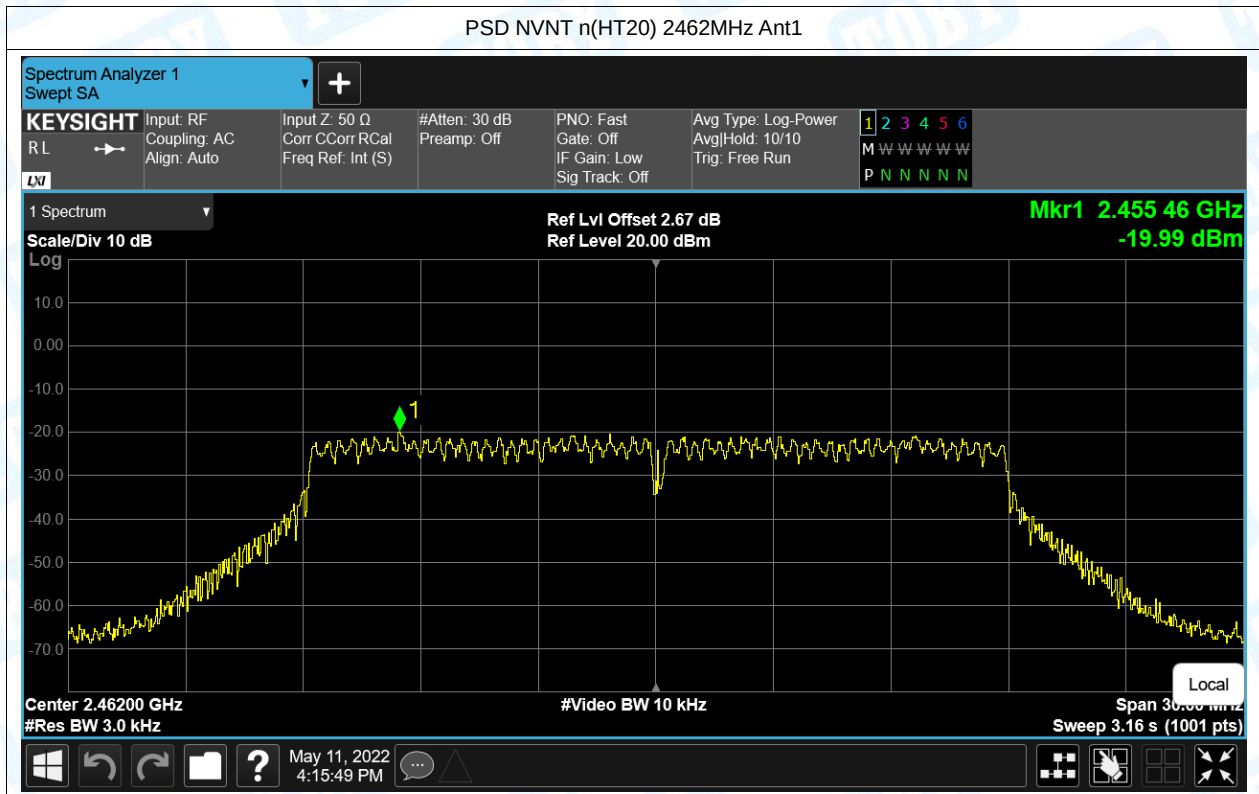
PSD NVNT b 2437MHz Ant1







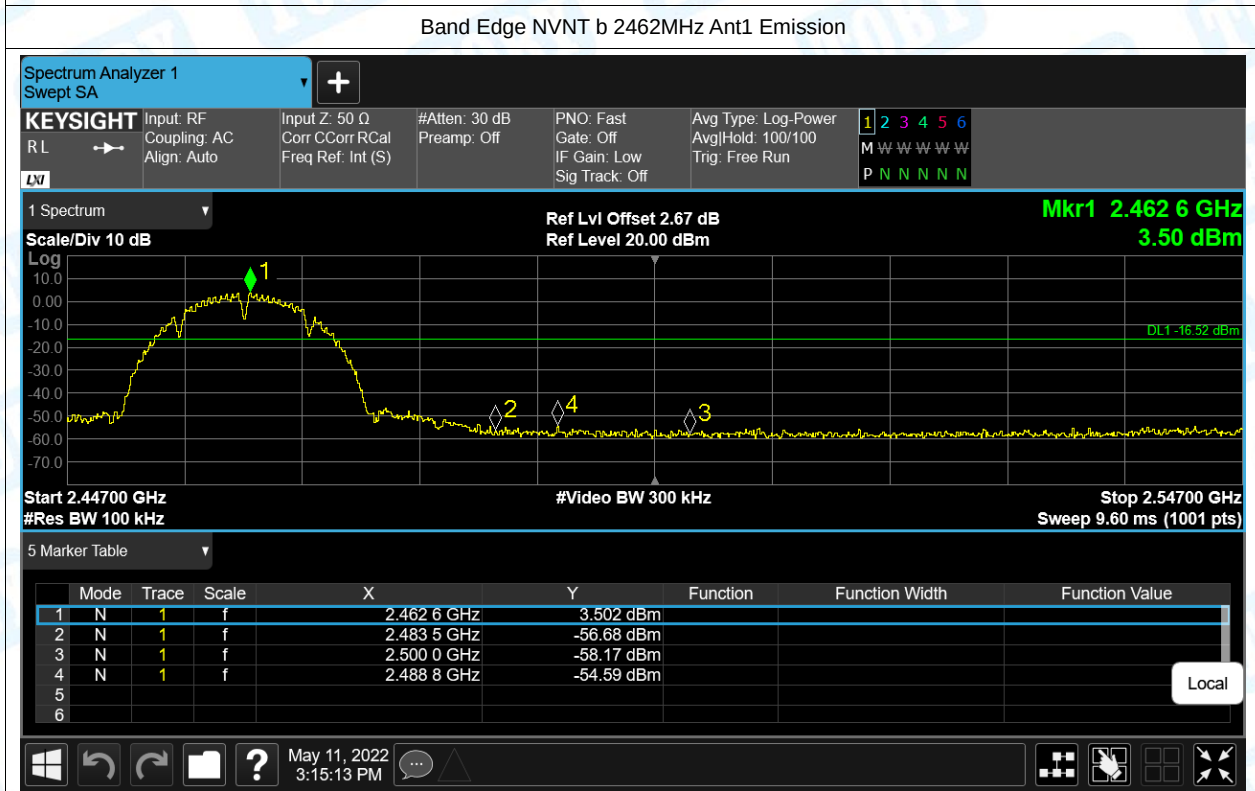


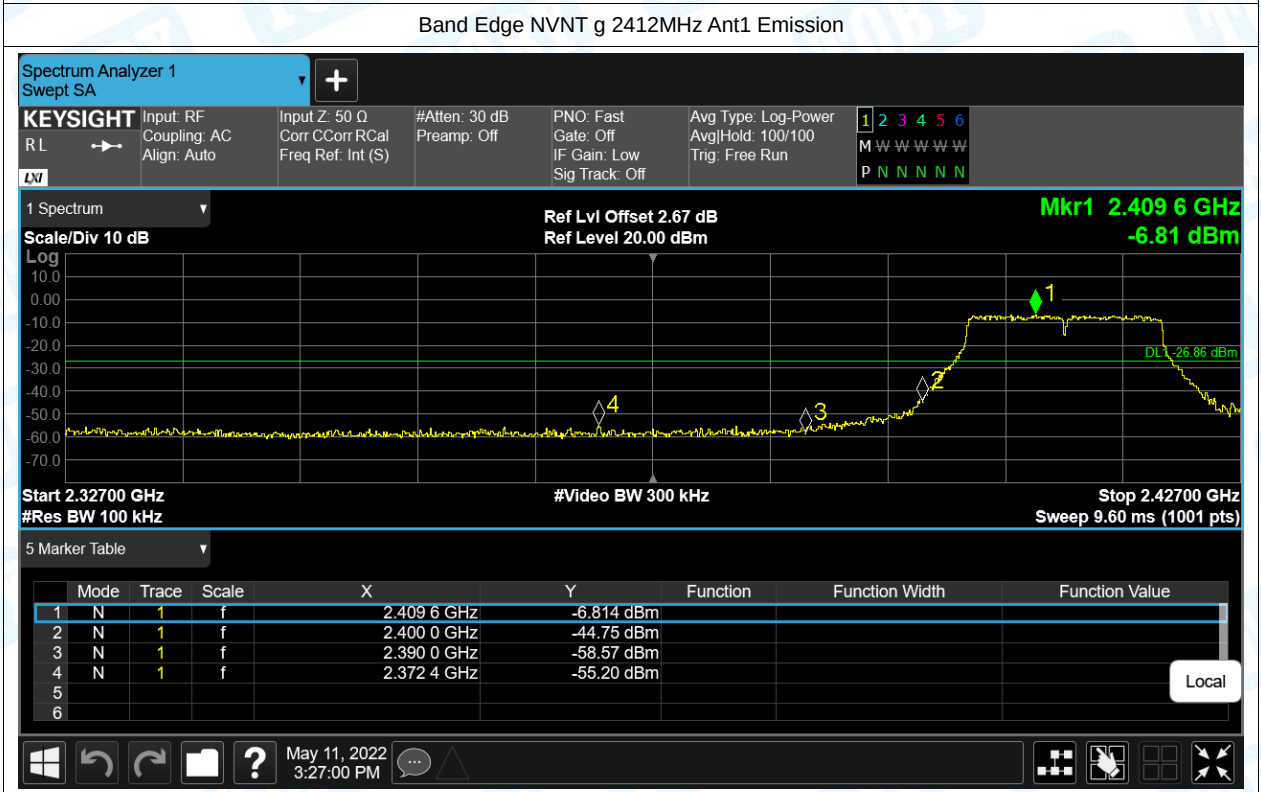
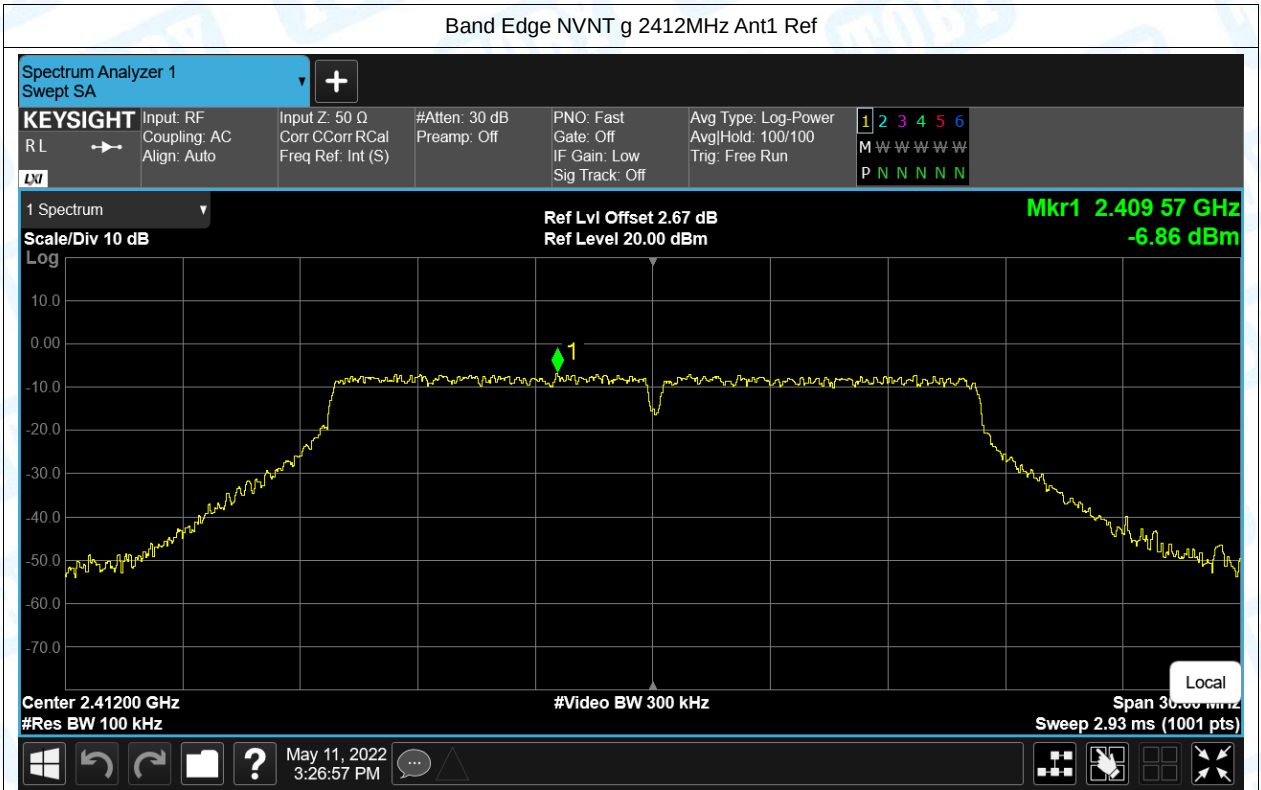


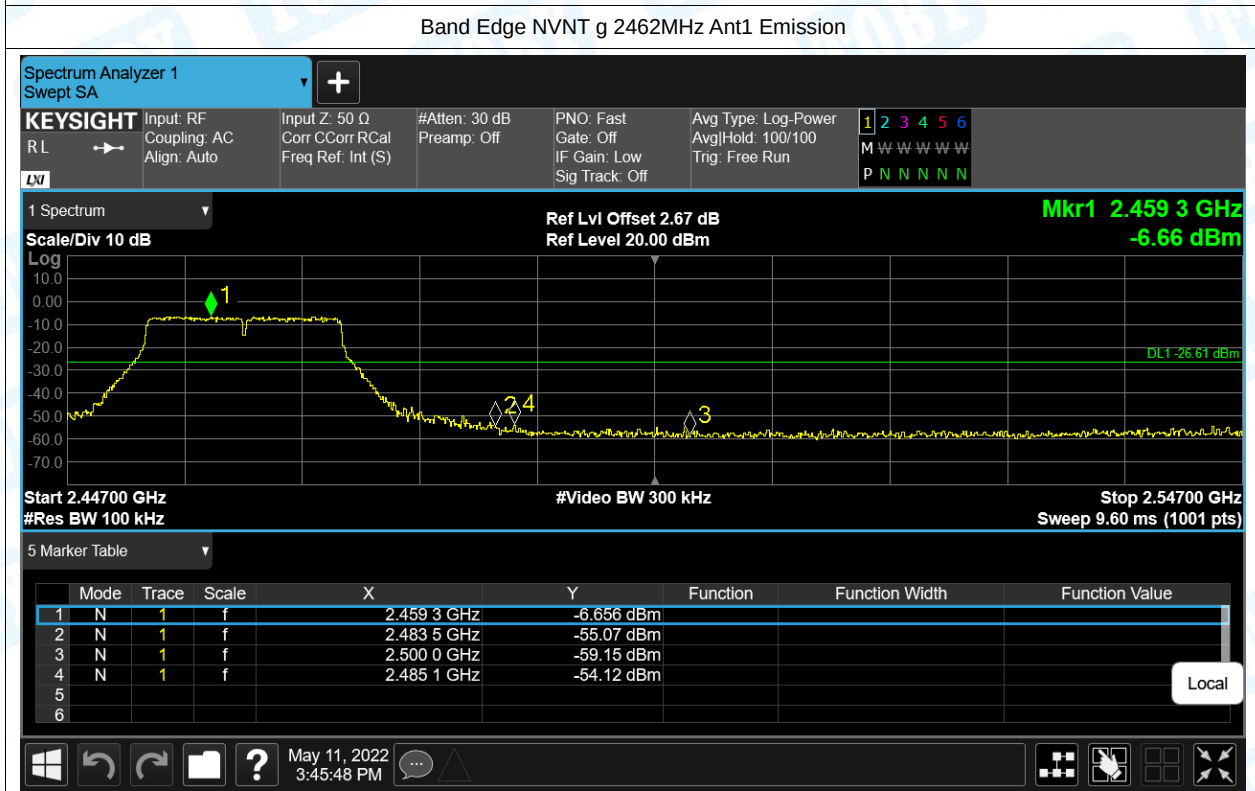
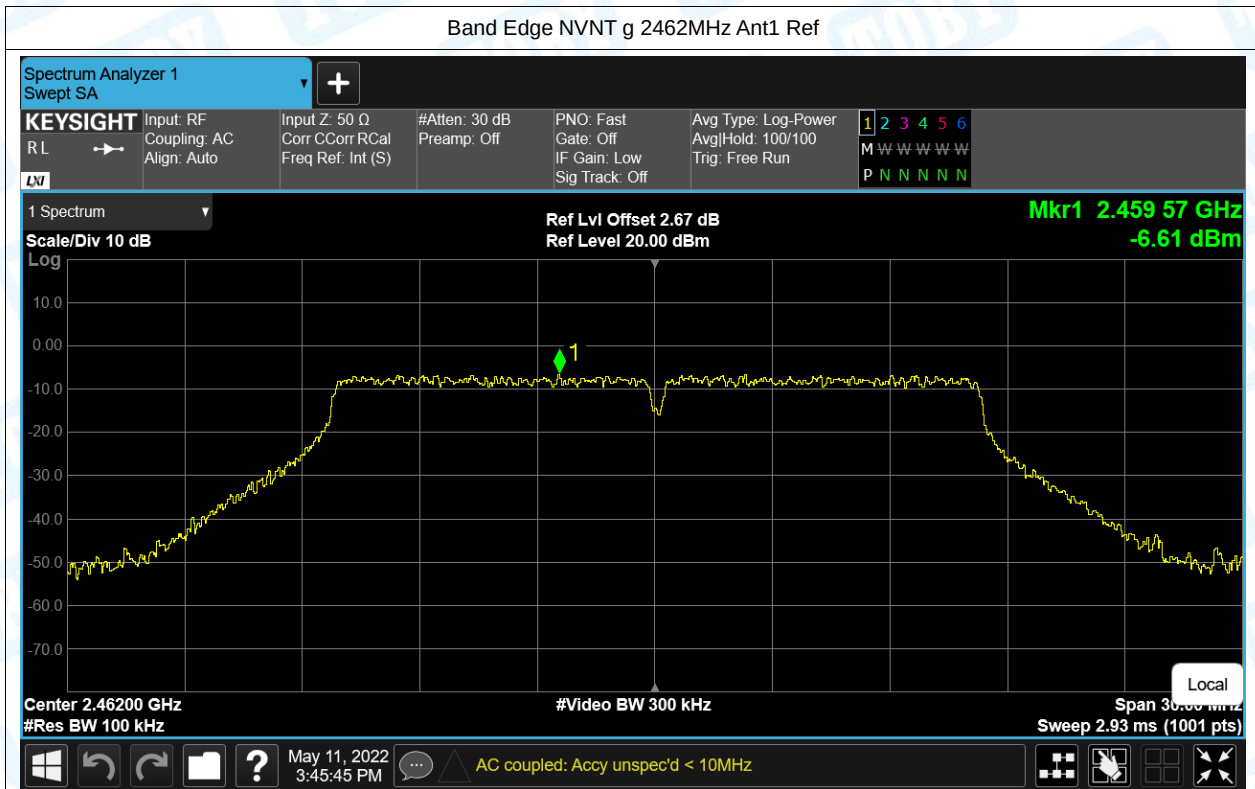
6. Band Edge

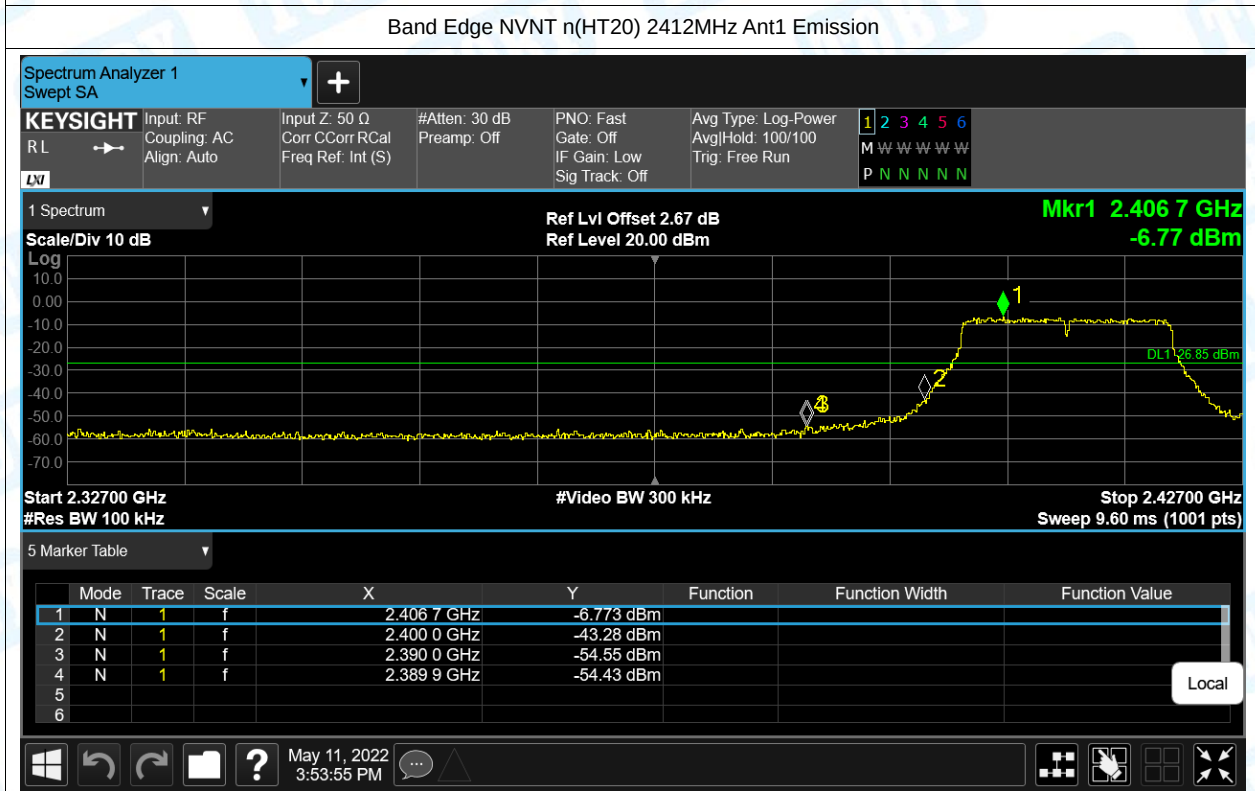
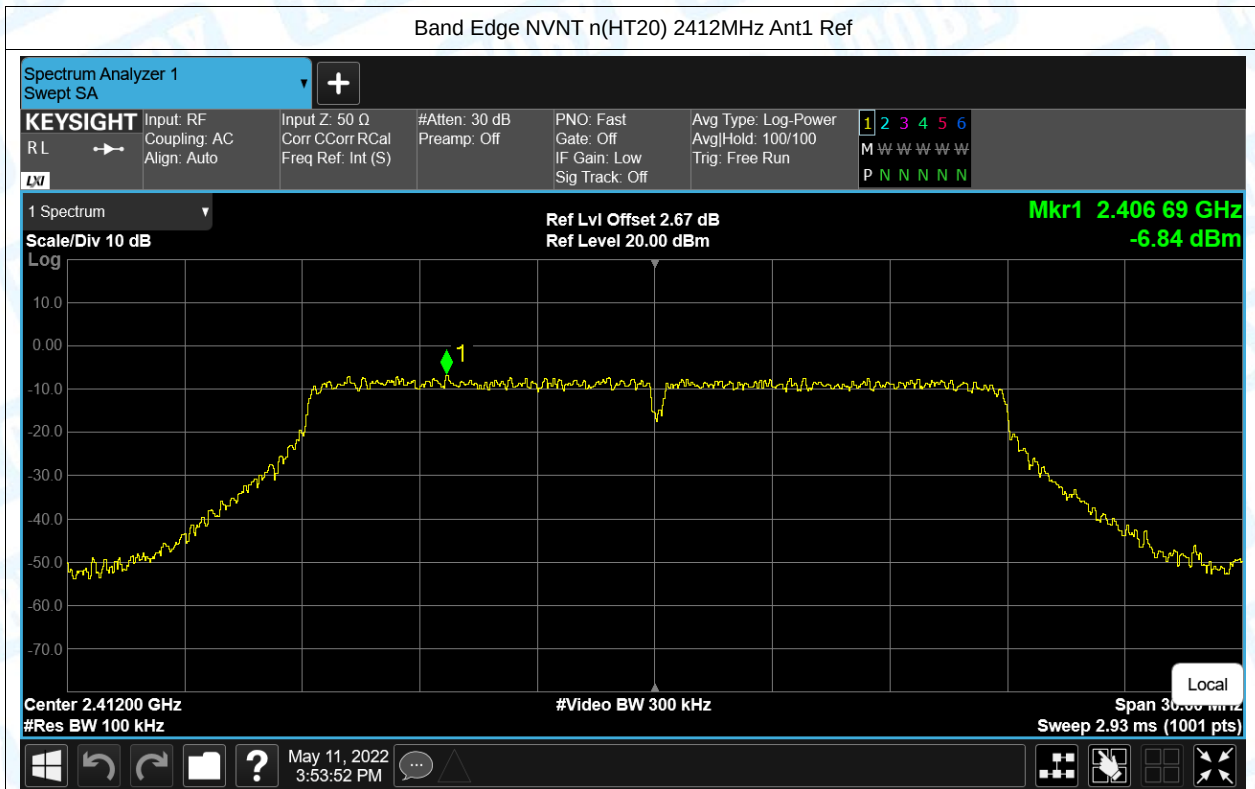
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-57.87	-20	Pass
NVNT	b	2462	Ant1	-58.07	-20	Pass
NVNT	g	2412	Ant1	-48.34	-20	Pass
NVNT	g	2462	Ant1	-47.51	-20	Pass
NVNT	n(HT20)	2412	Ant1	-47.59	-20	Pass
NVNT	n(HT20)	2462	Ant1	-48.2	-20	Pass

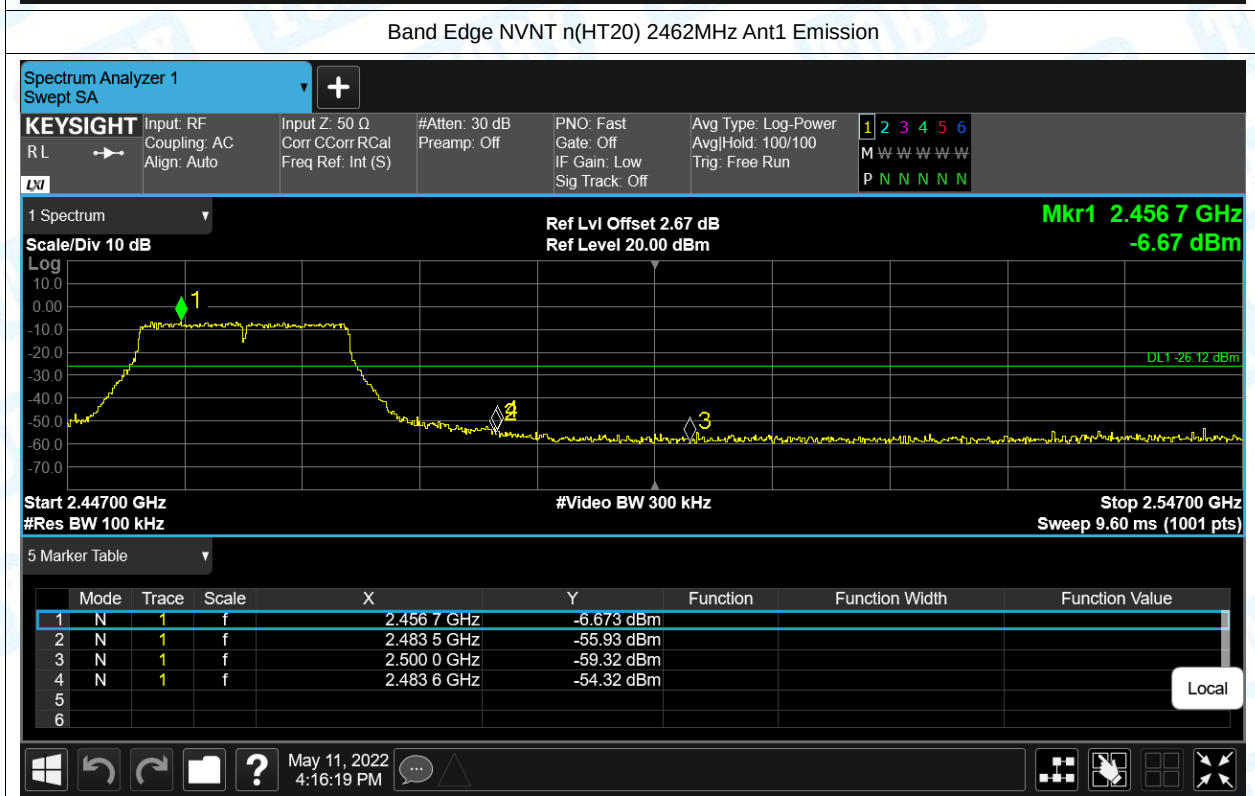
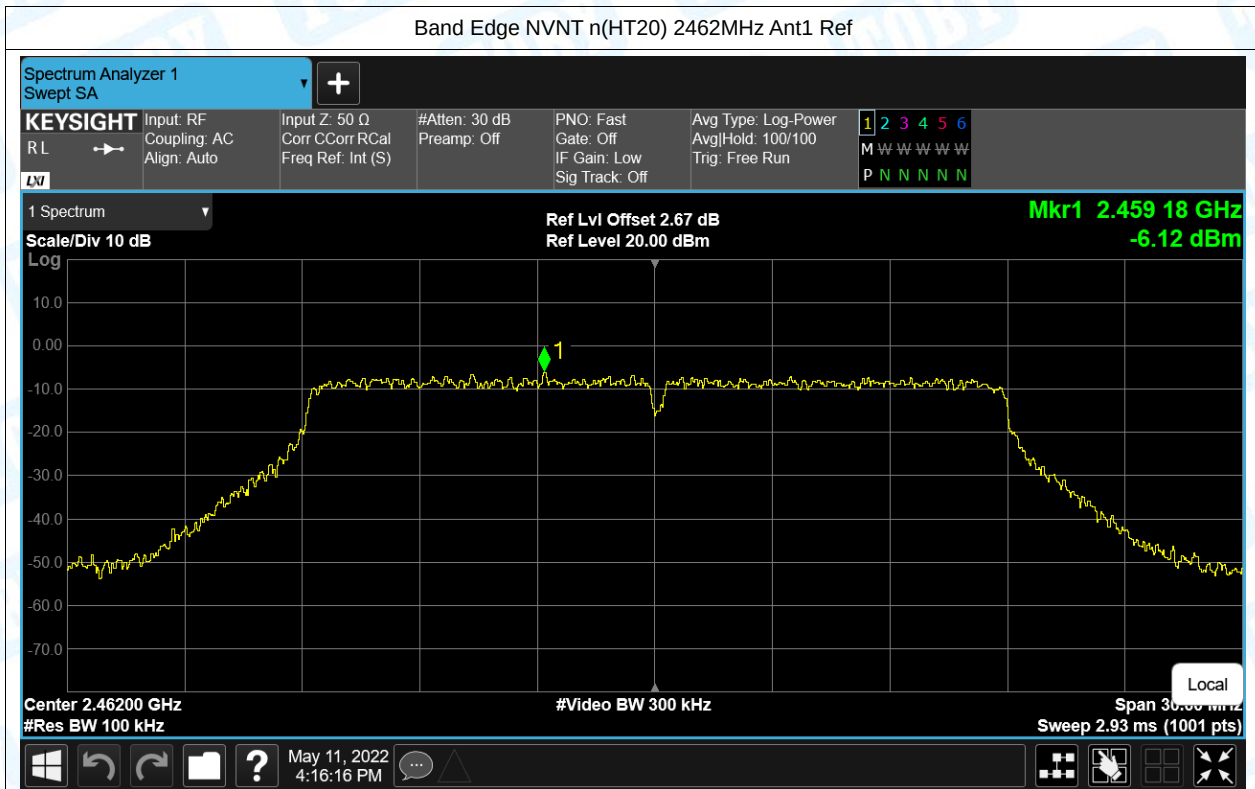












7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.8	-20	Pass
NVNT	b	2437	Ant1	-45.32	-20	Pass
NVNT	b	2462	Ant1	-45.39	-20	Pass
NVNT	g	2412	Ant1	-35.67	-20	Pass
NVNT	g	2437	Ant1	-35.32	-20	Pass
NVNT	g	2462	Ant1	-35.94	-20	Pass
NVNT	n(HT20)	2412	Ant1	-35.8	-20	Pass
NVNT	n(HT20)	2437	Ant1	-36.22	-20	Pass
NVNT	n(HT20)	2462	Ant1	-36.48	-20	Pass



Tx. Spurious NVNT b 2412MHz Ant1 Emission

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: AC

Align: Auto

Input Z: 50 Ω

Corr CCorr RCal

Freq Ref: Int (S)

#Atten: 30 dB

Preamp: Off

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

Avg Type: Log-Power

Avg/Hold: 10/10

Trig: Free Run

1 2 3 4 5 6

M W W W W W

P N N N N N

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 2.67 dB

Ref Level 20.00 dBm

Mkr1 2.412 GHz

3.06 dBm

Start 30 MHz

#Res BW 100 kHz

#Video BW 300 kHz

Stop 26.50 GHz

Sweep ~2.57 s (1001 pts)

DL1 -16.85 dBm

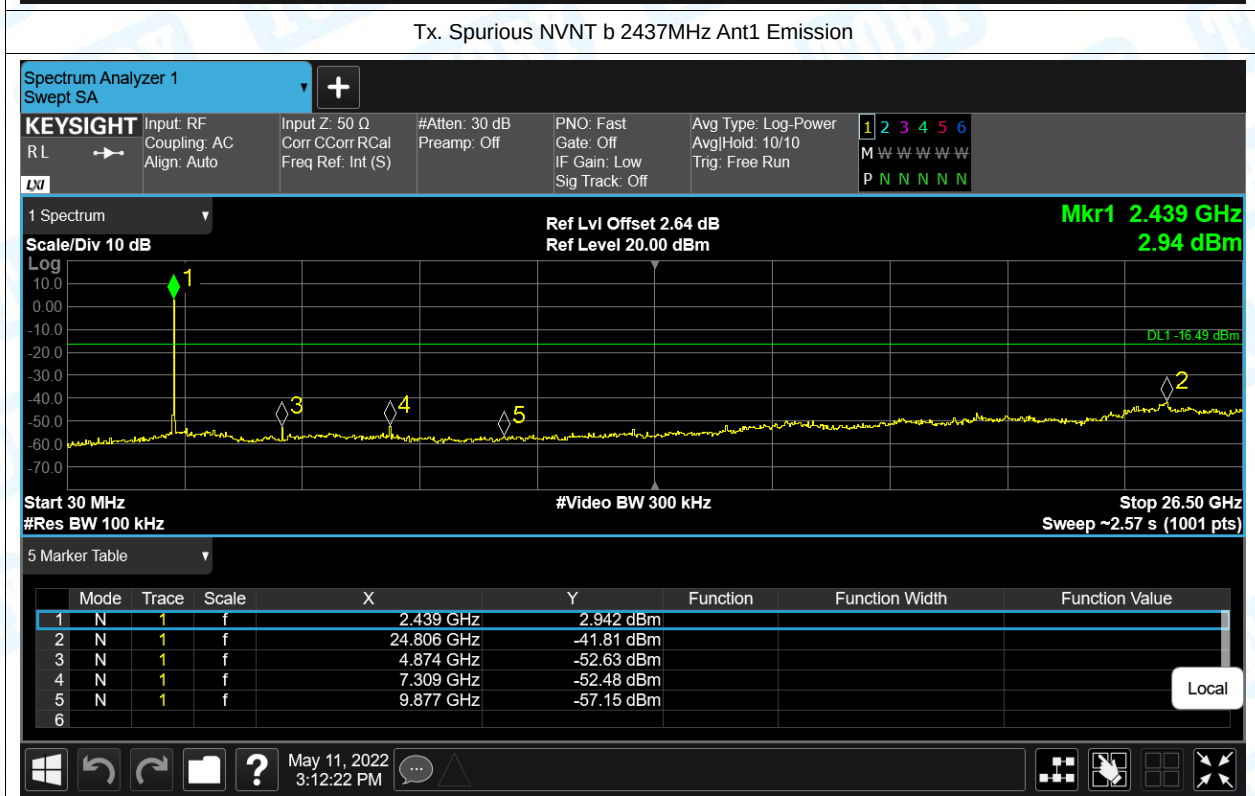
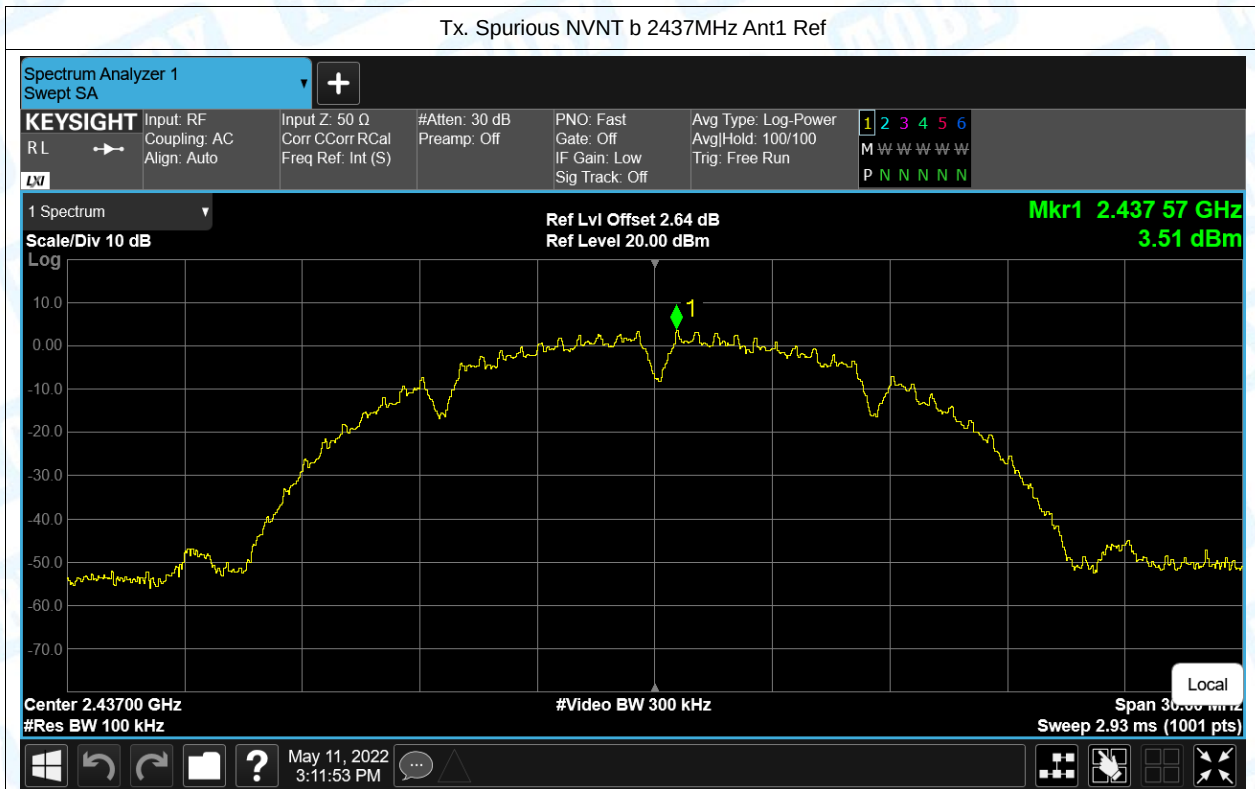
5 Marker Table

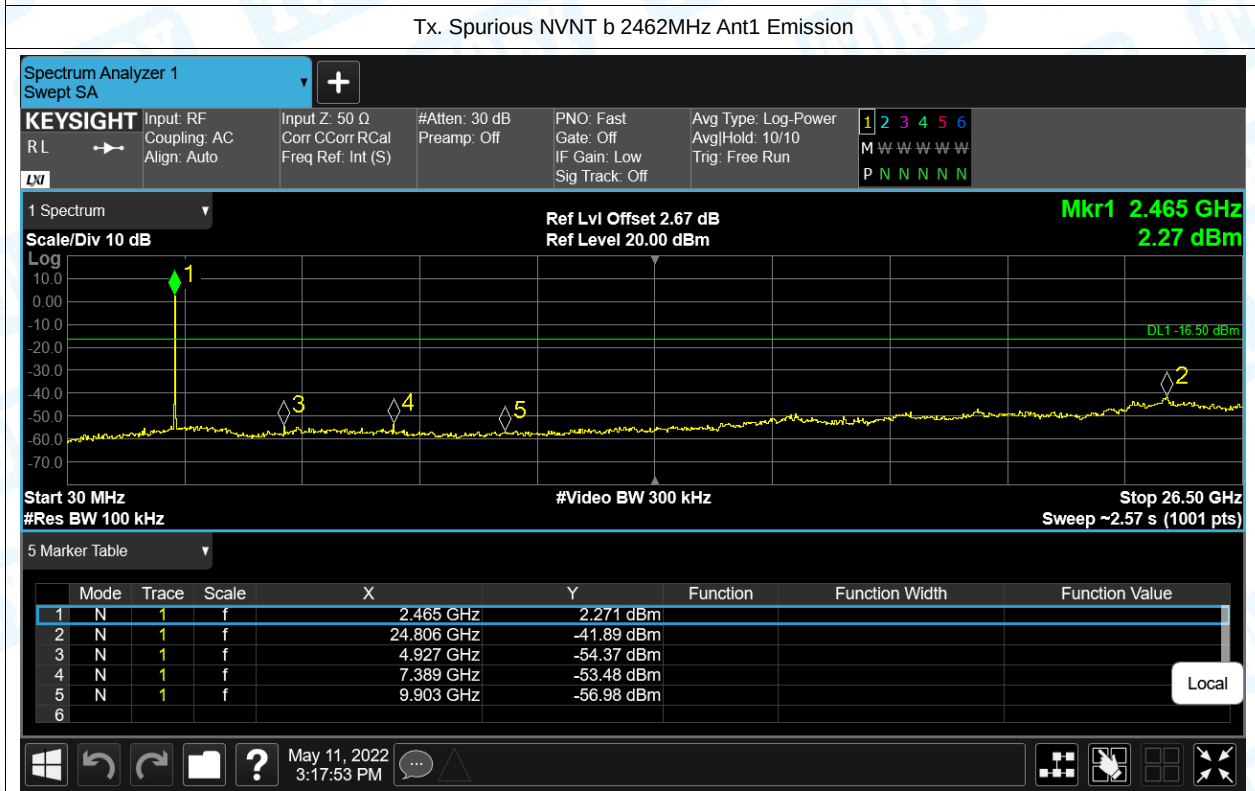
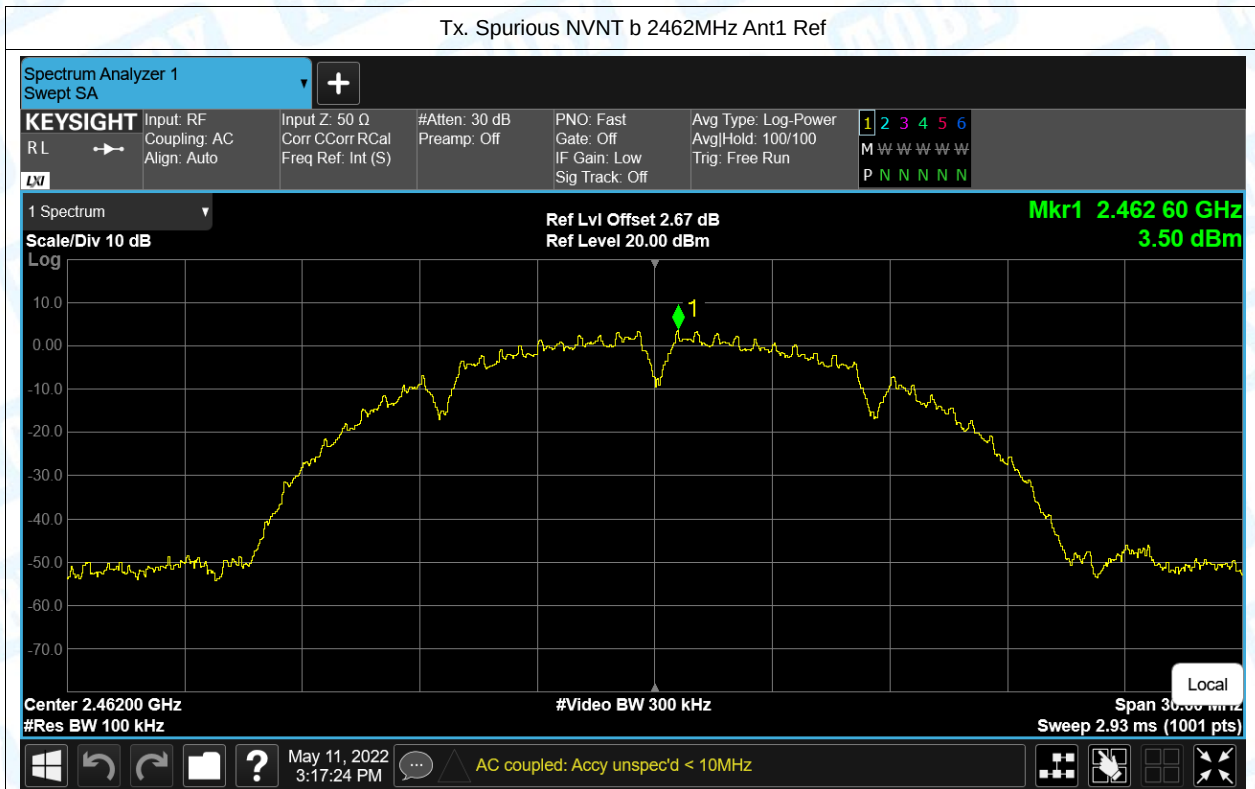
	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.412 GHz	3.059 dBm			
2	N	1	f	24.753 GHz	-42.65 dBm			
3	N	1	f	4.821 GHz	-51.11 dBm			
4	N	1	f	7.230 GHz	-54.52 dBm			
5	N	1	f	9.559 GHz	-56.70 dBm			
6								

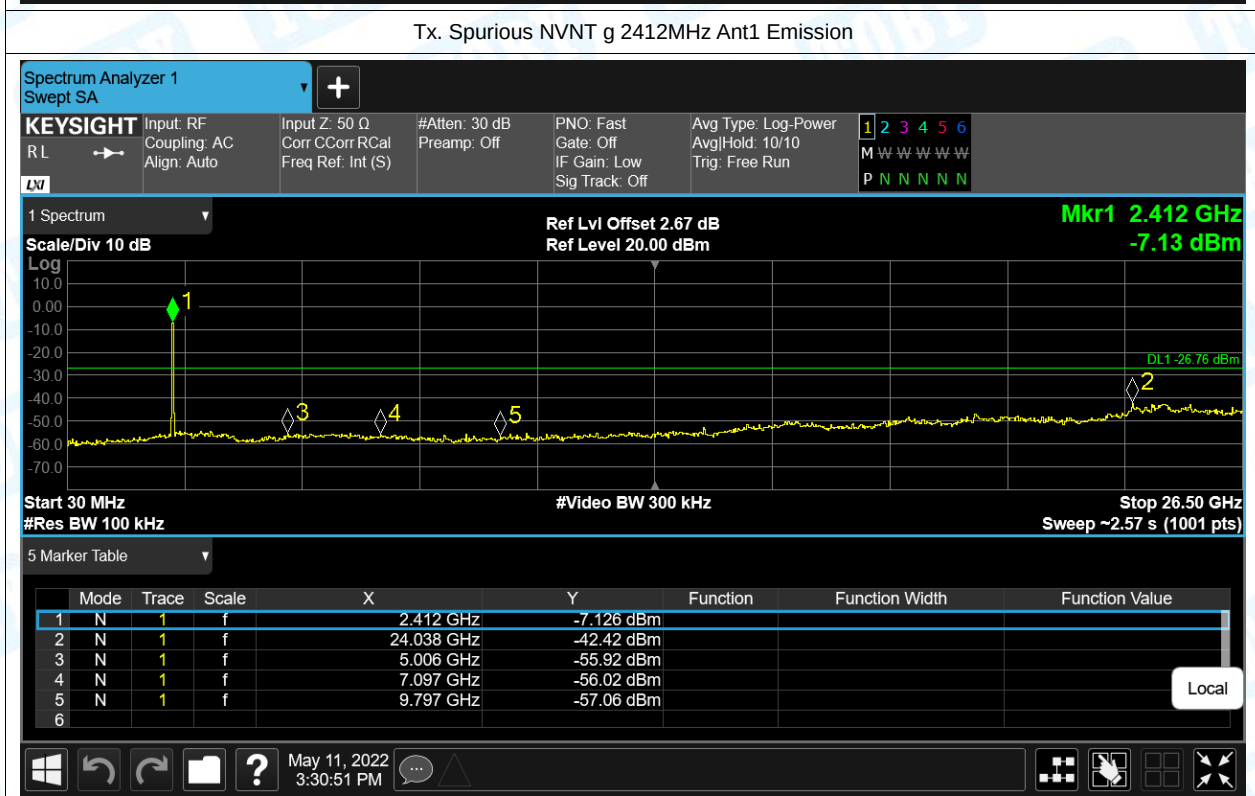
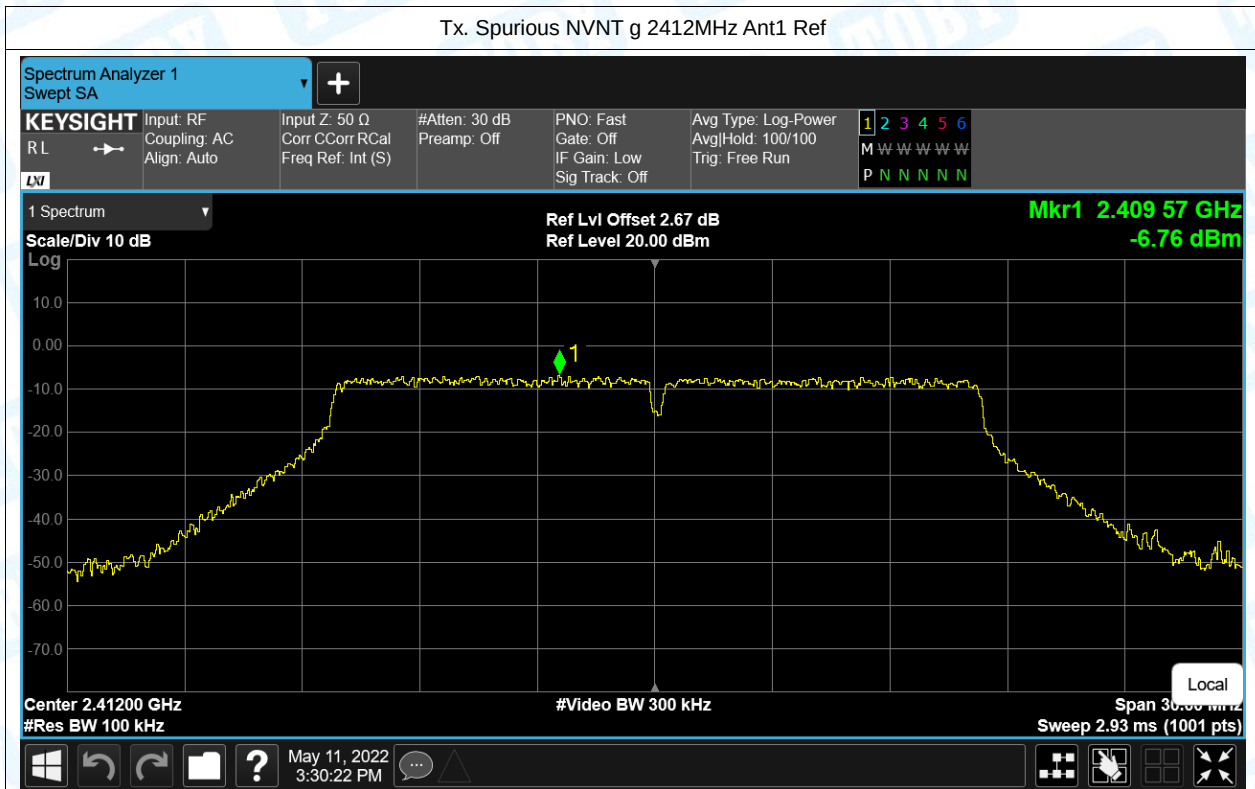
Local

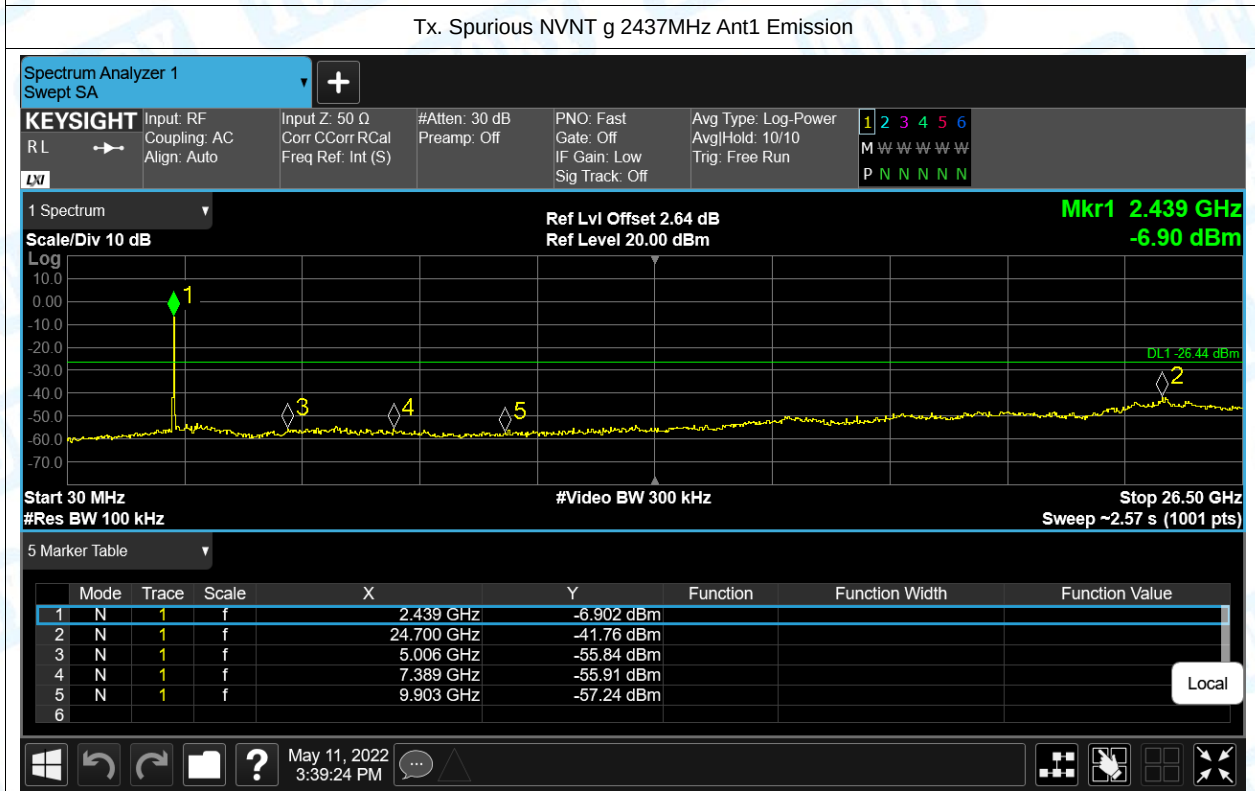
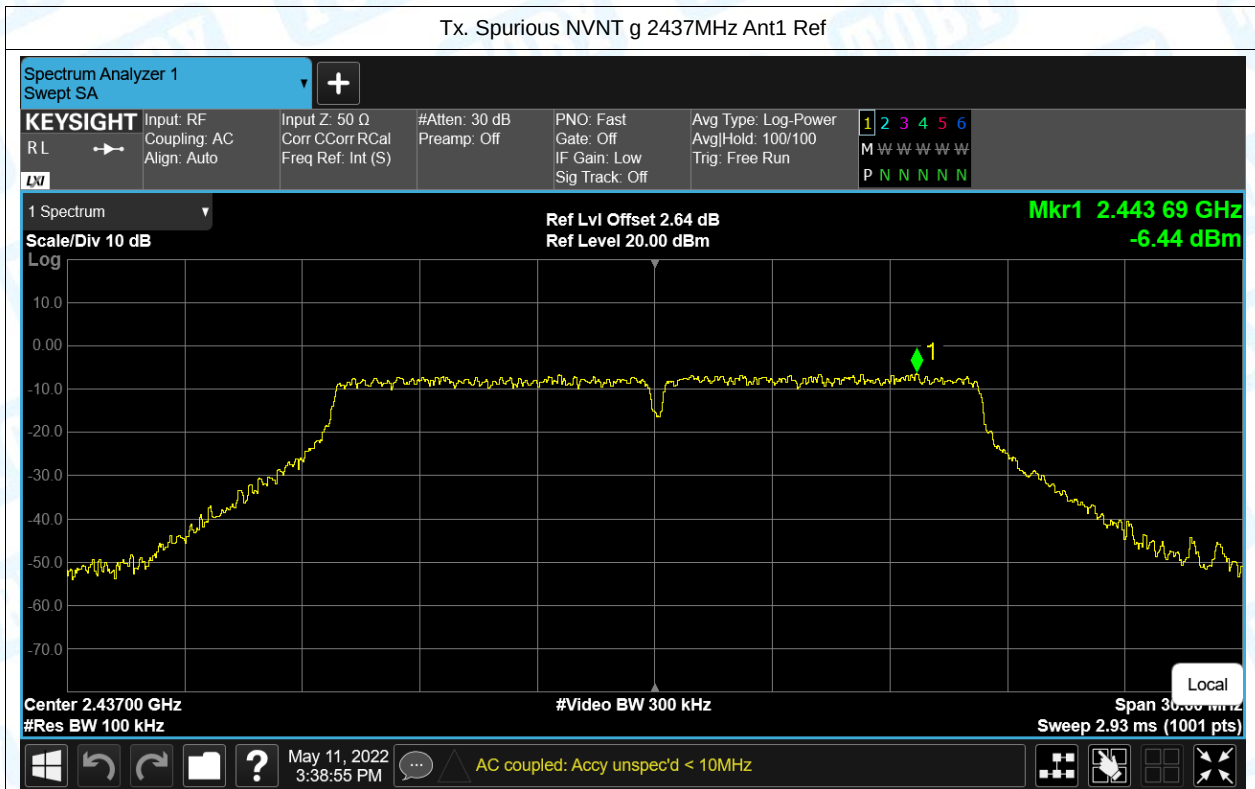
May 11, 2022

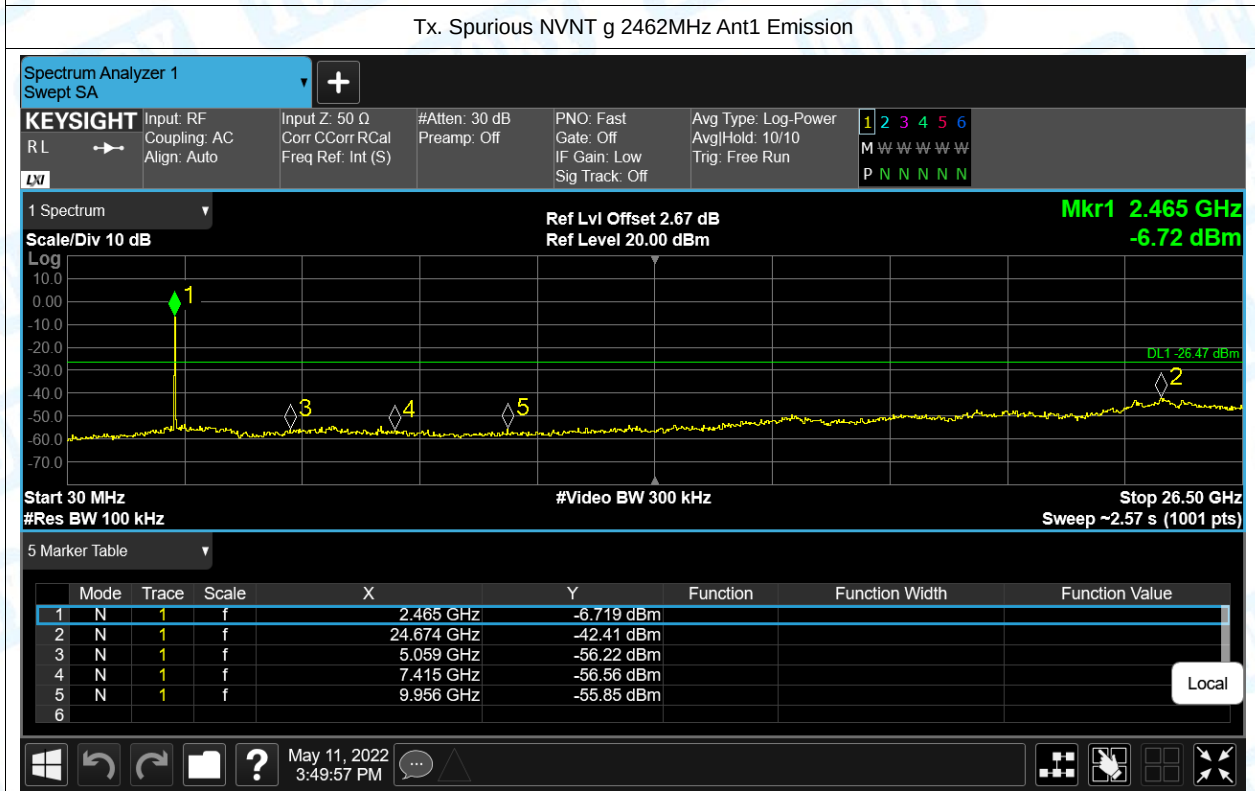
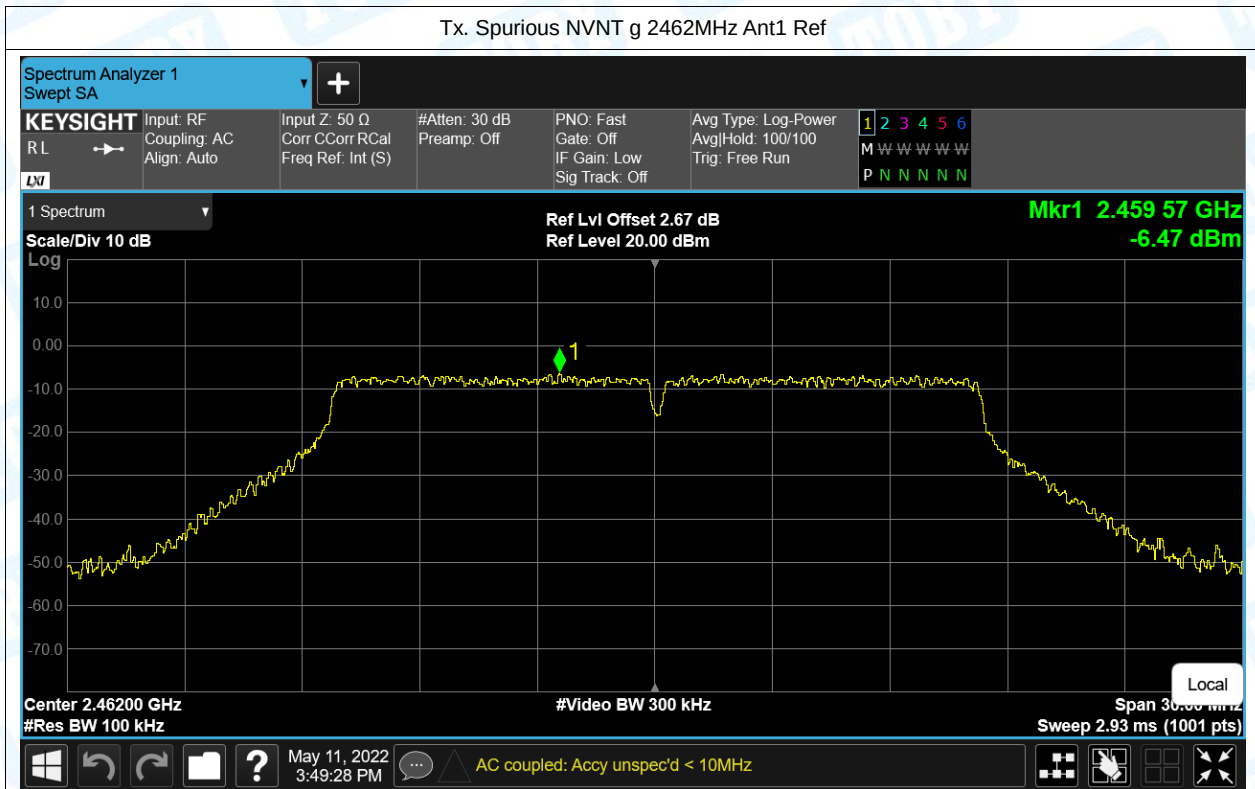
3:08:22 PM

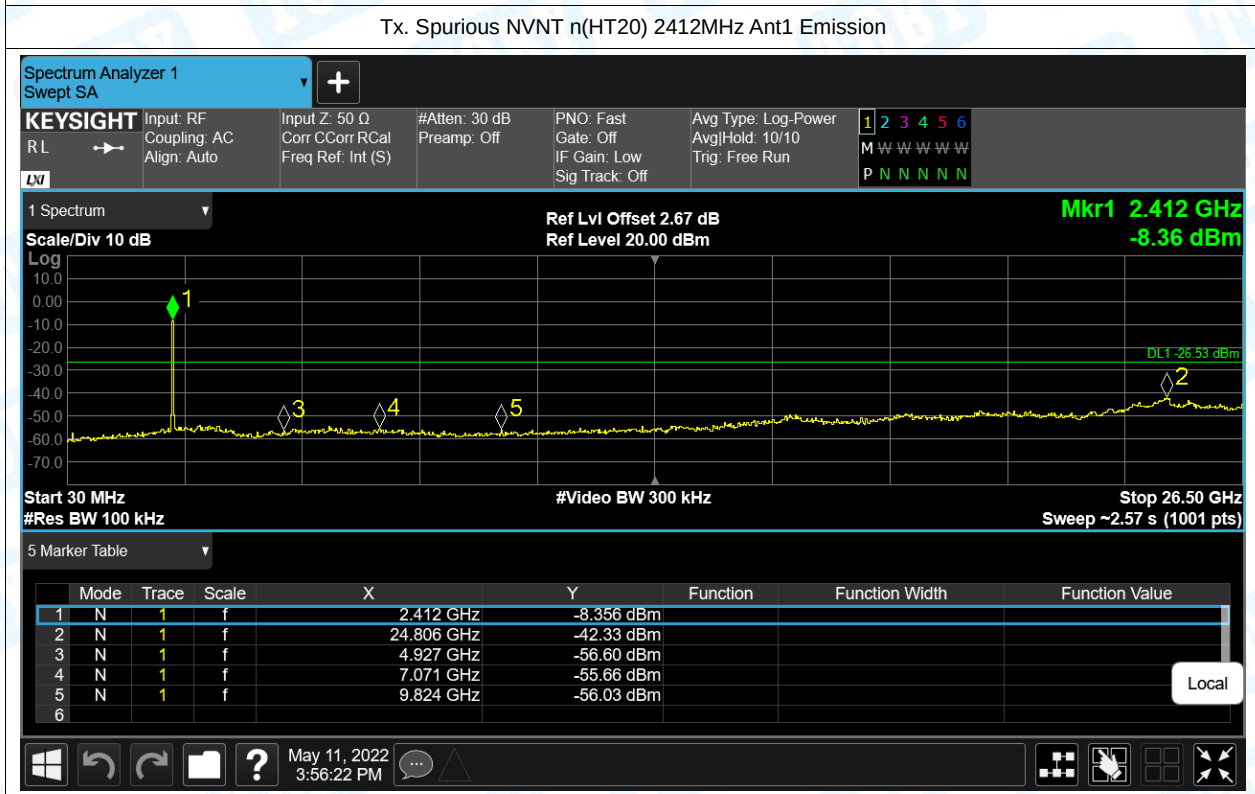
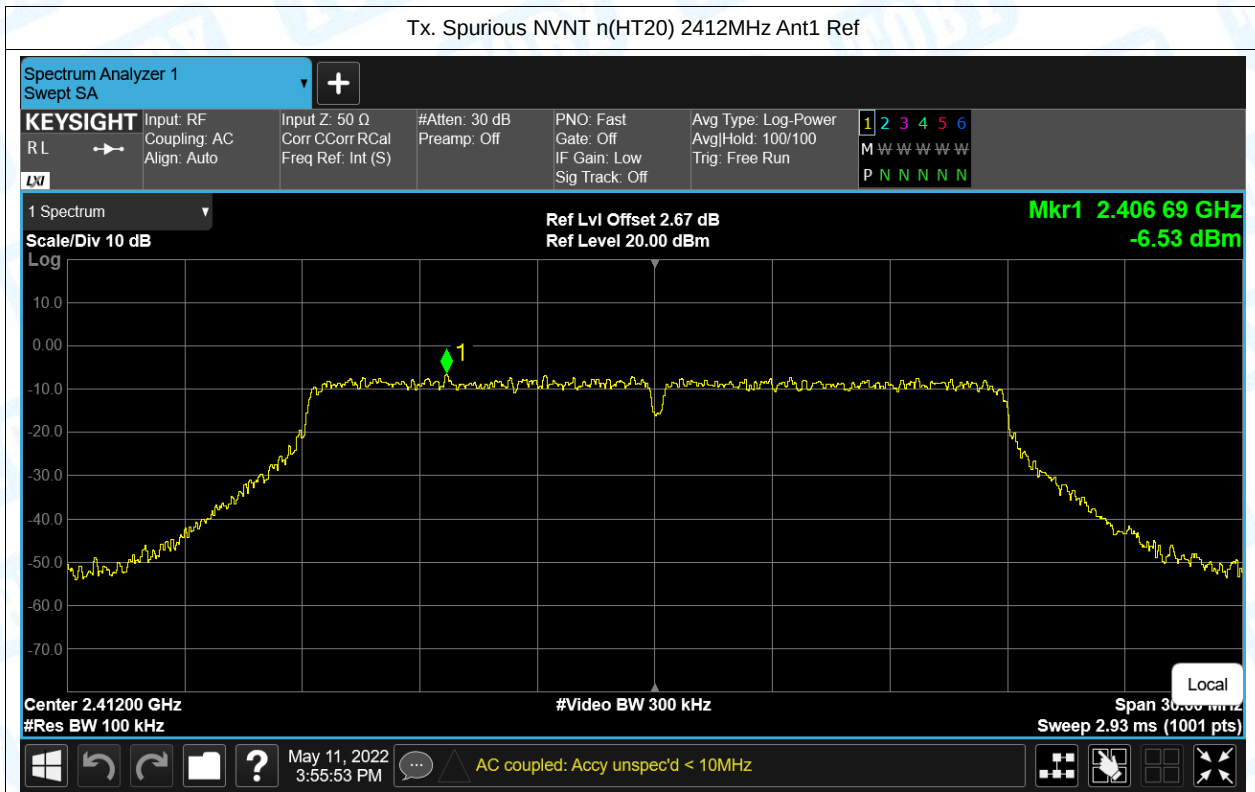


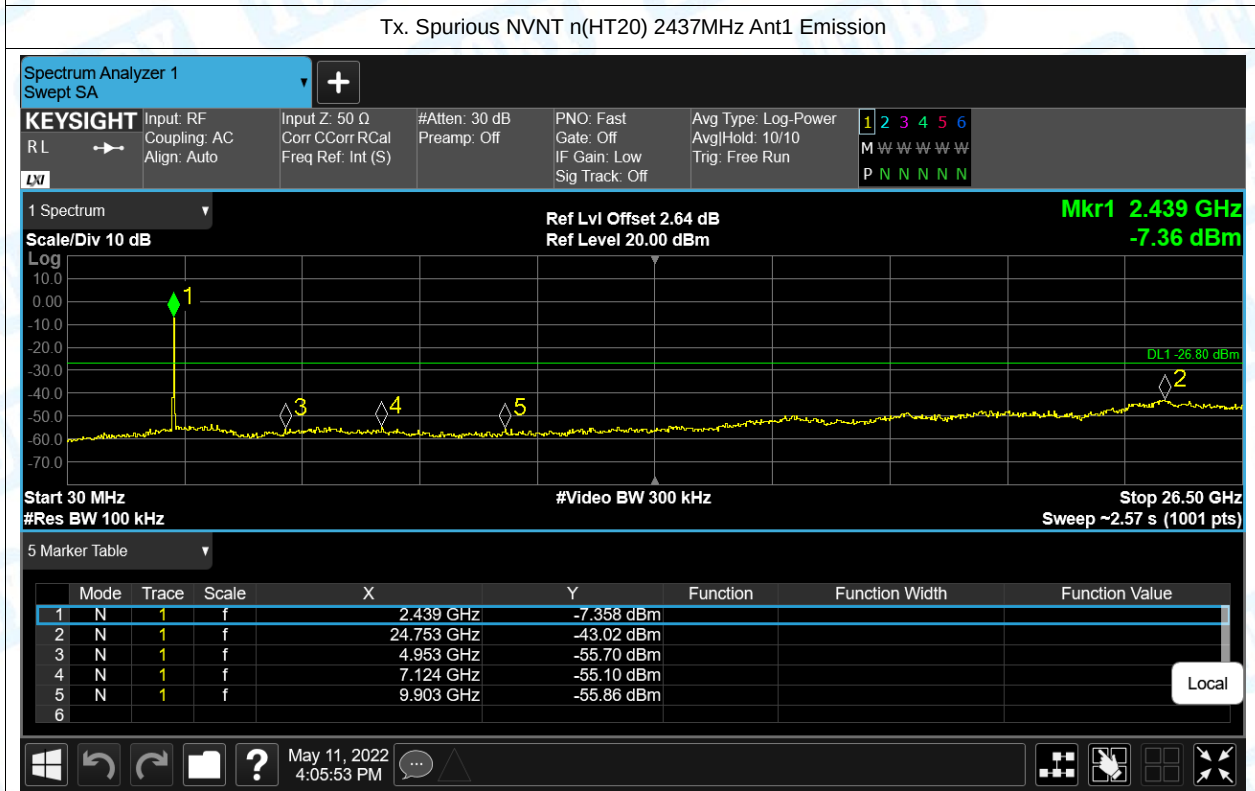
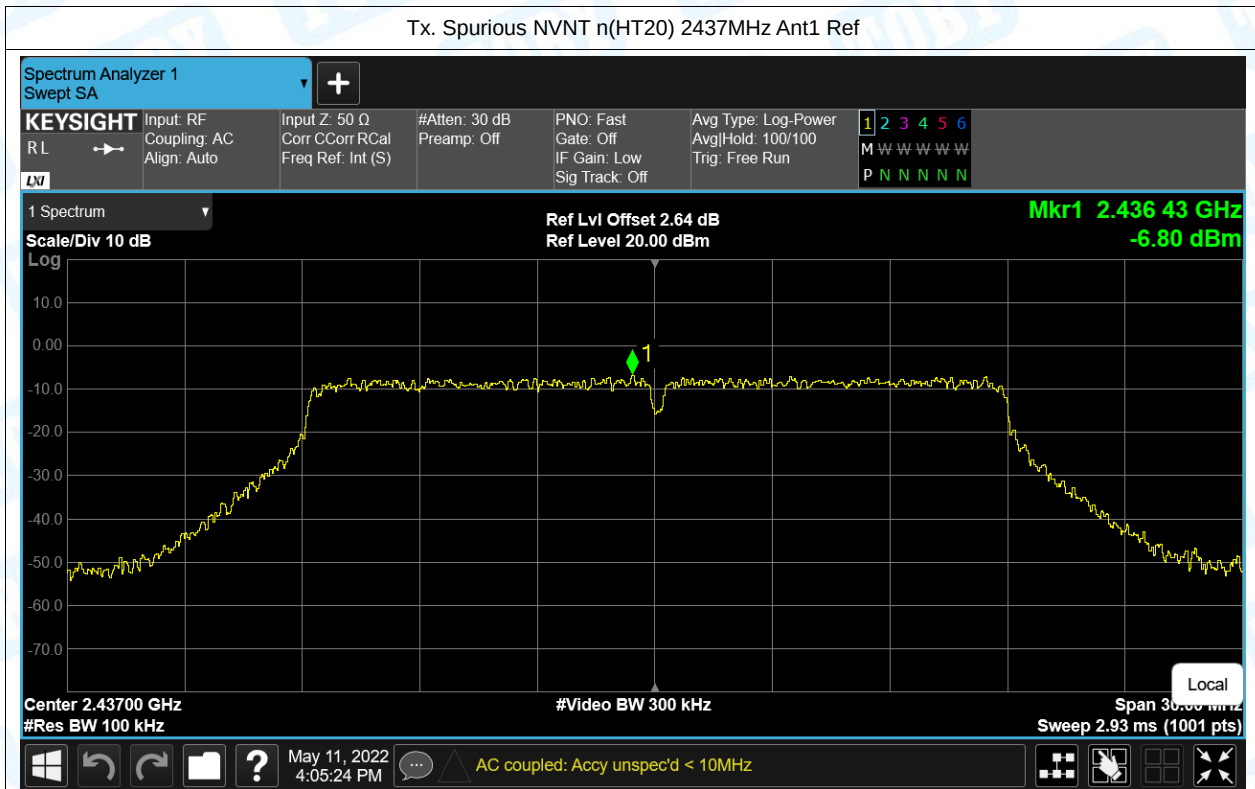


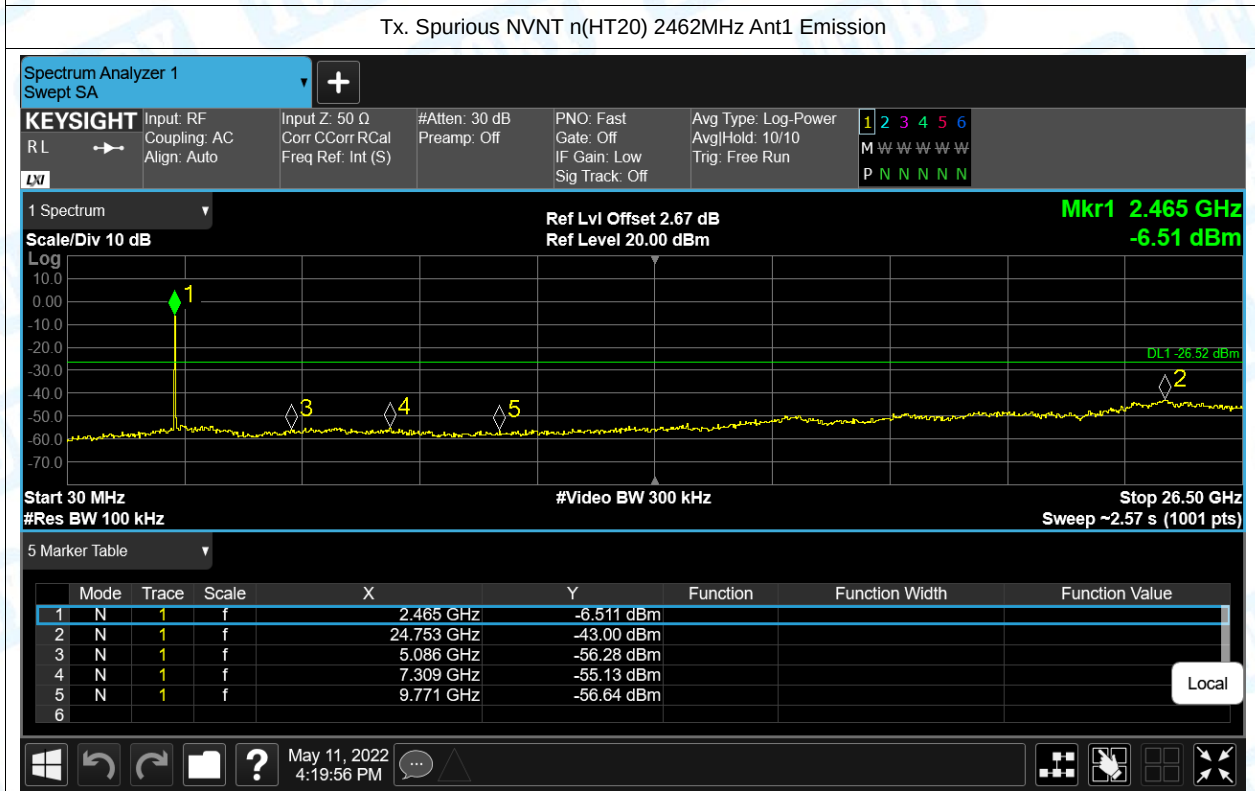
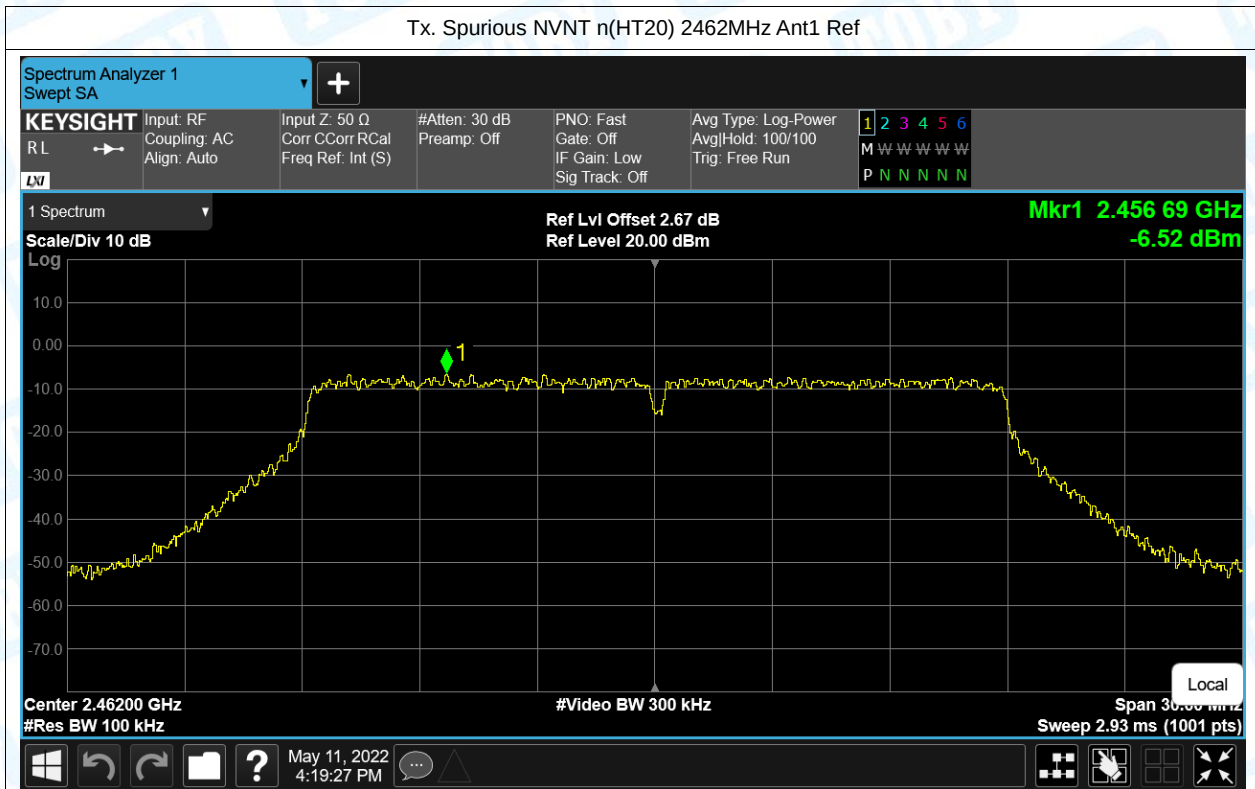






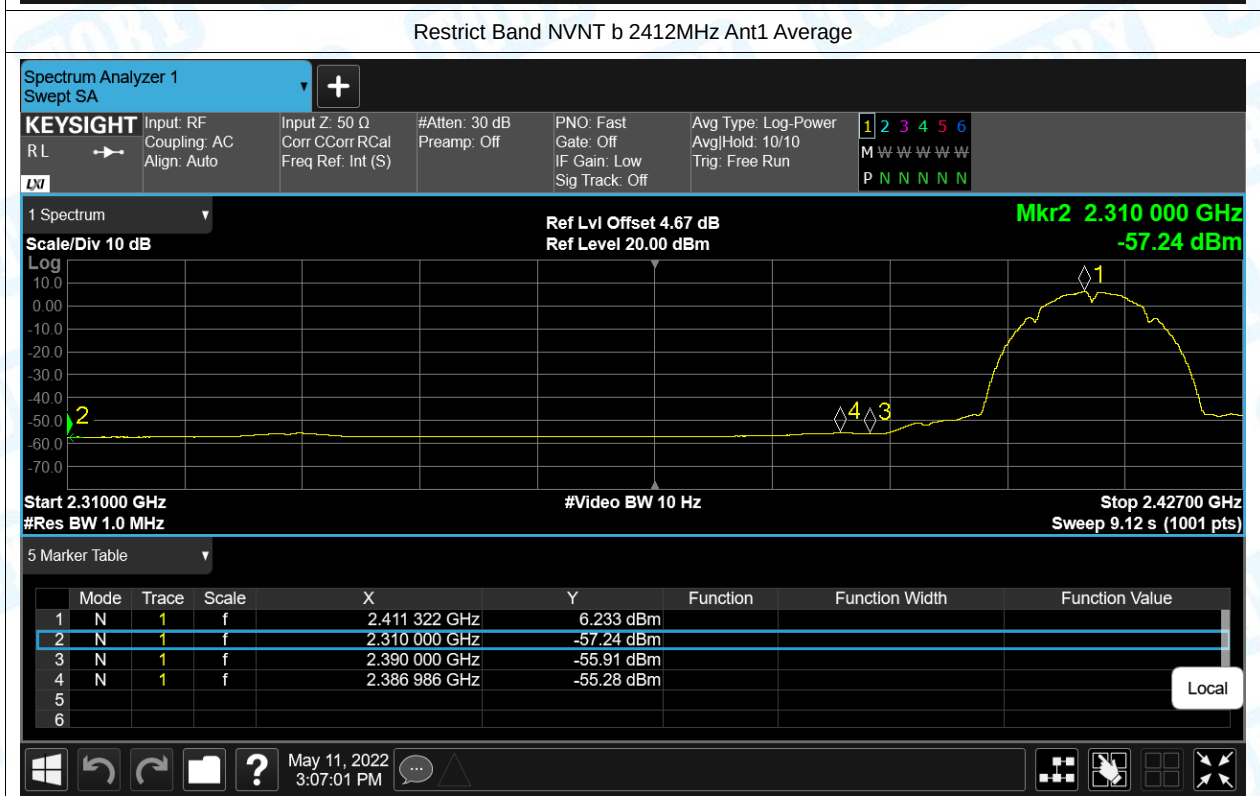
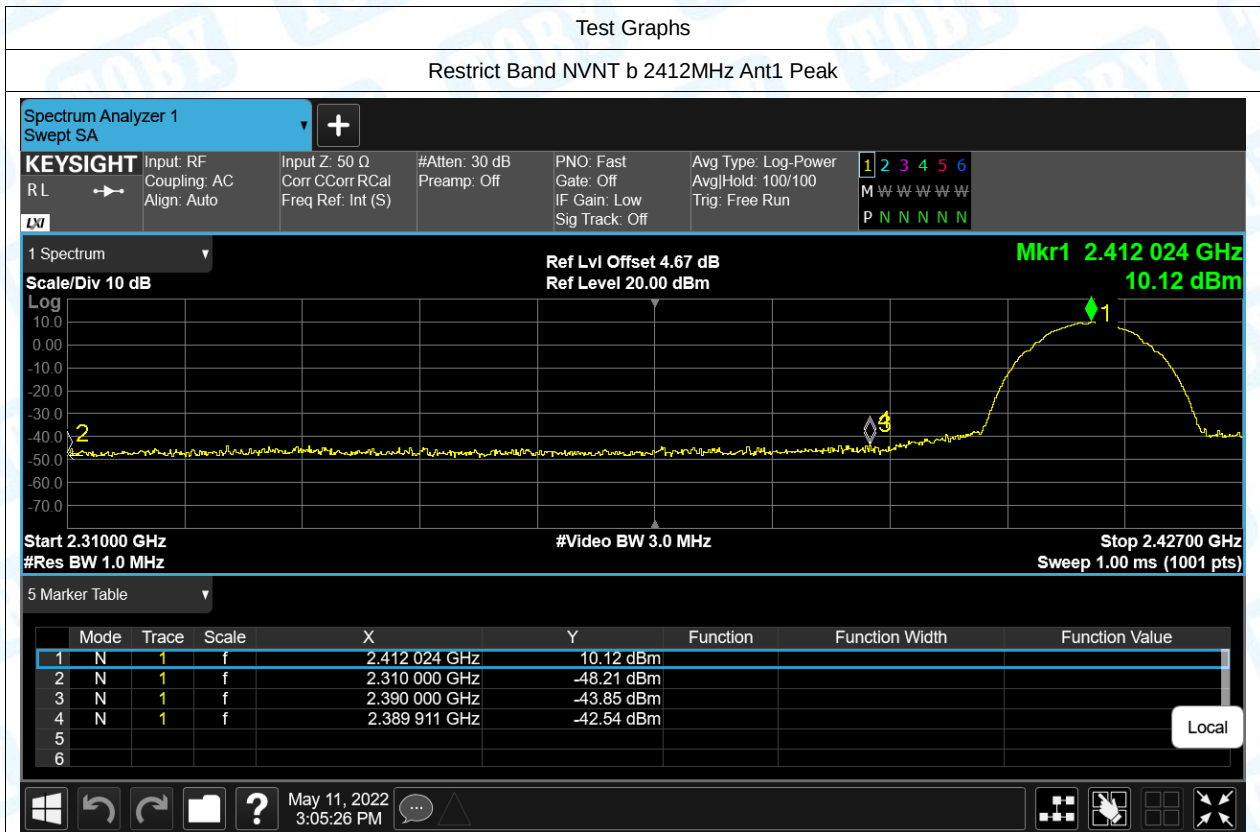


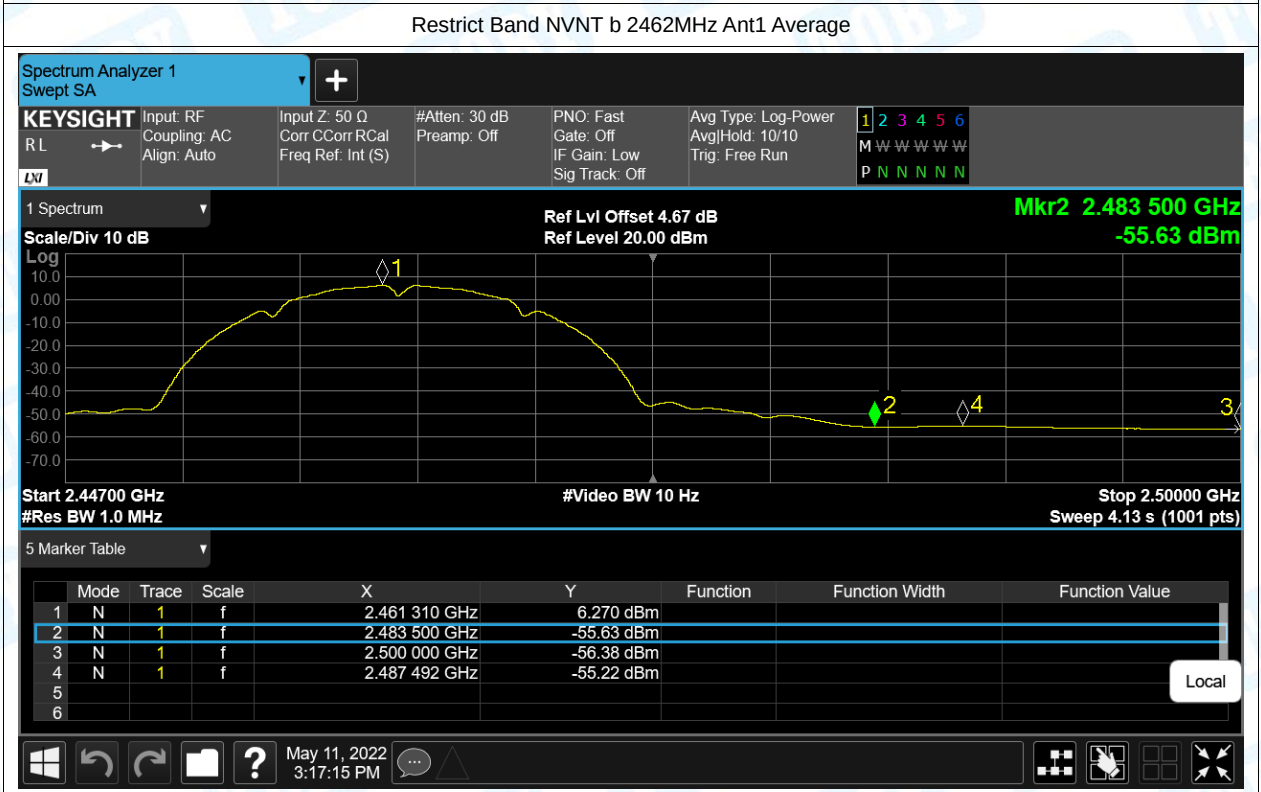
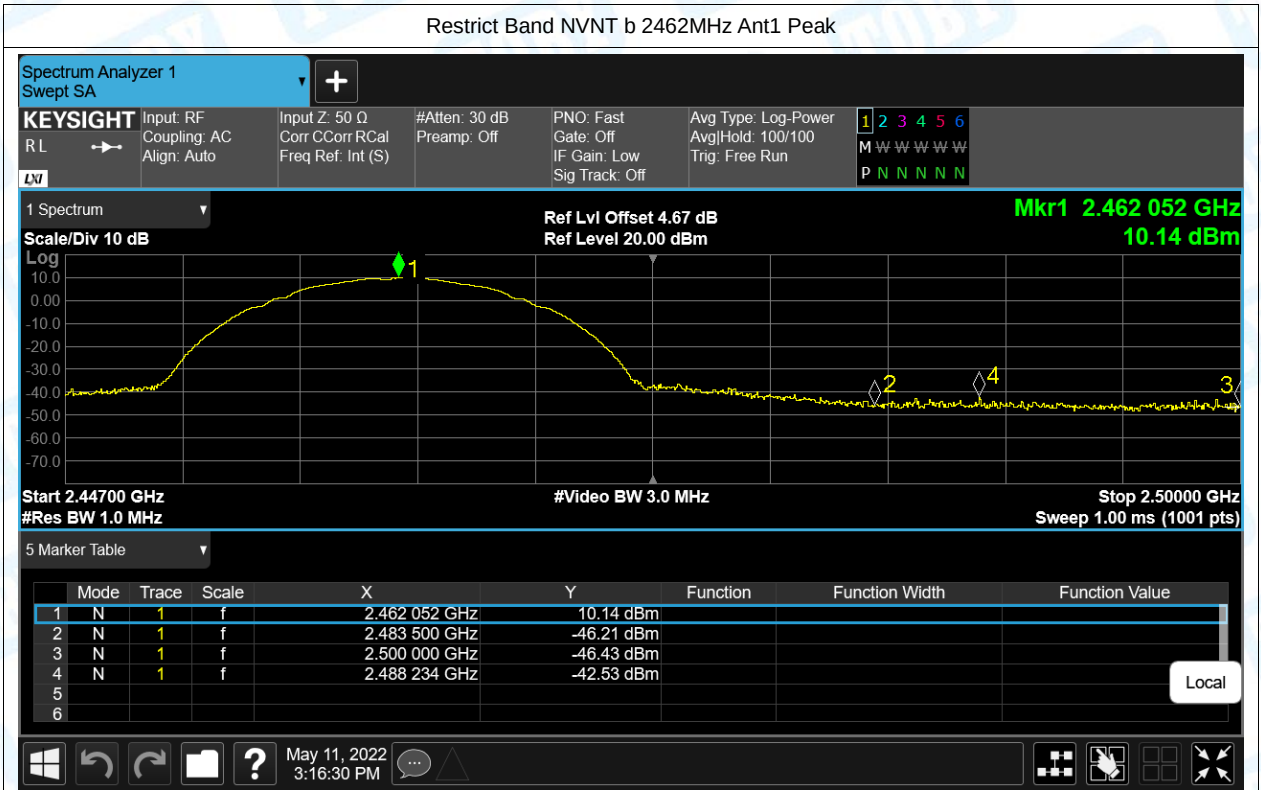


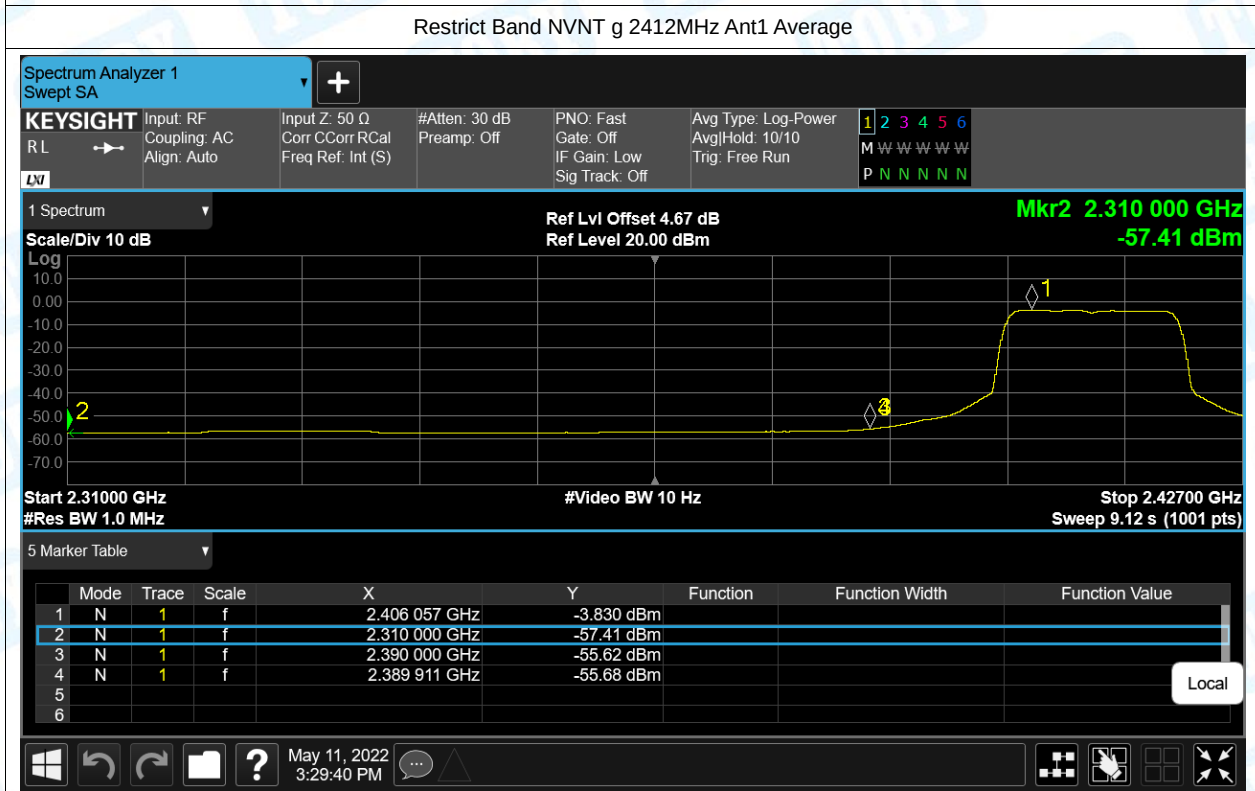
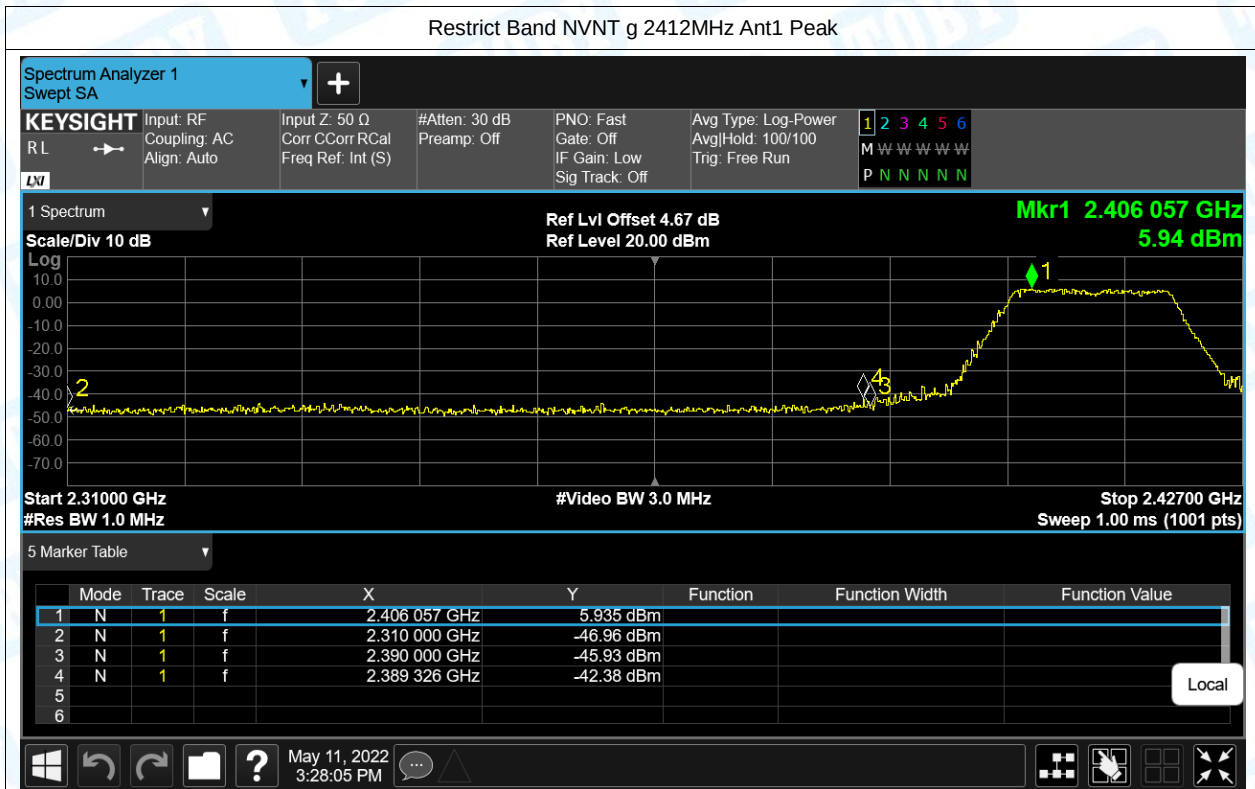


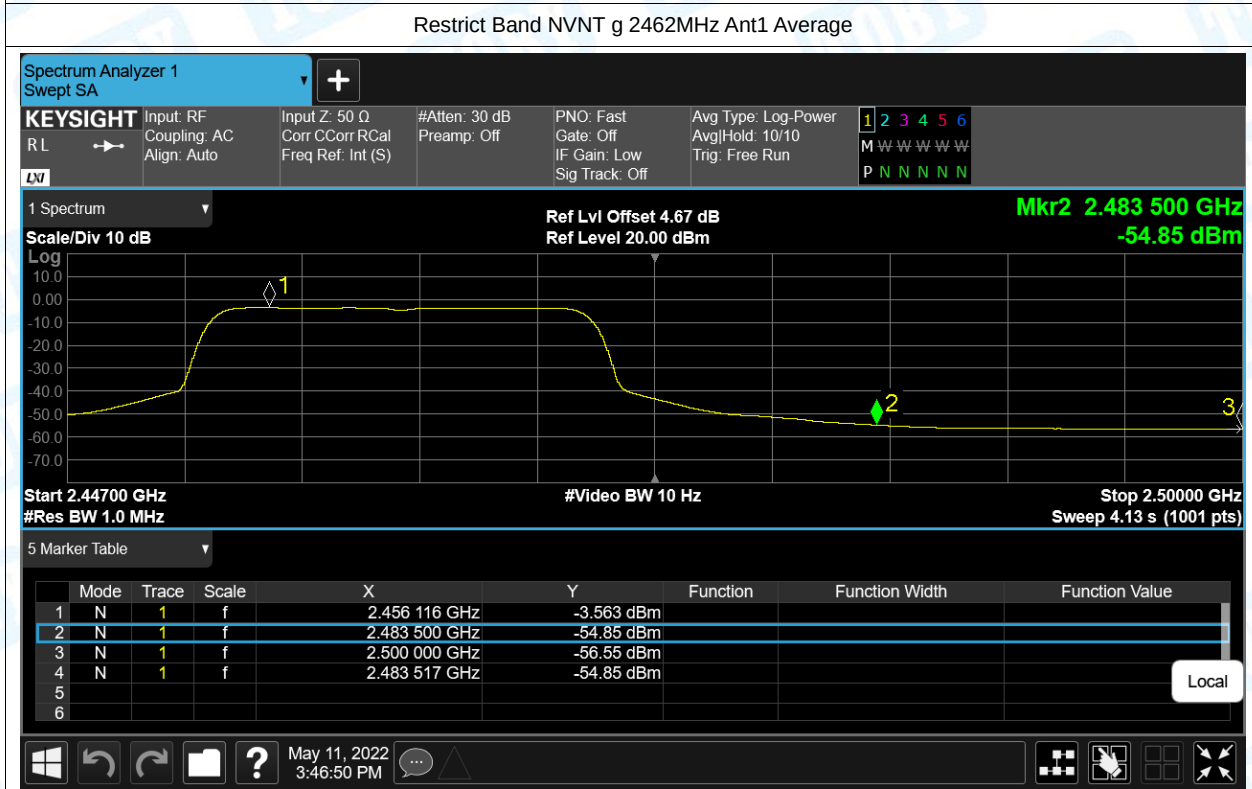
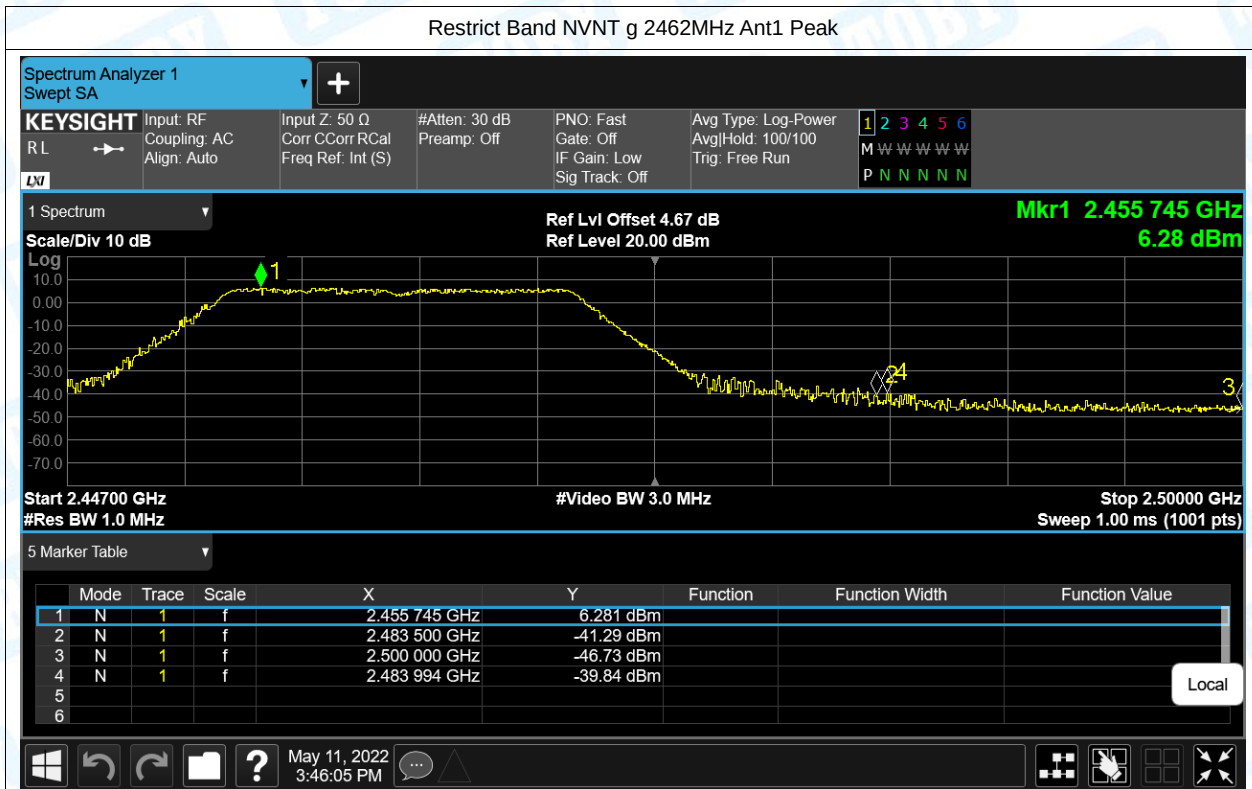
8. Restrict Band

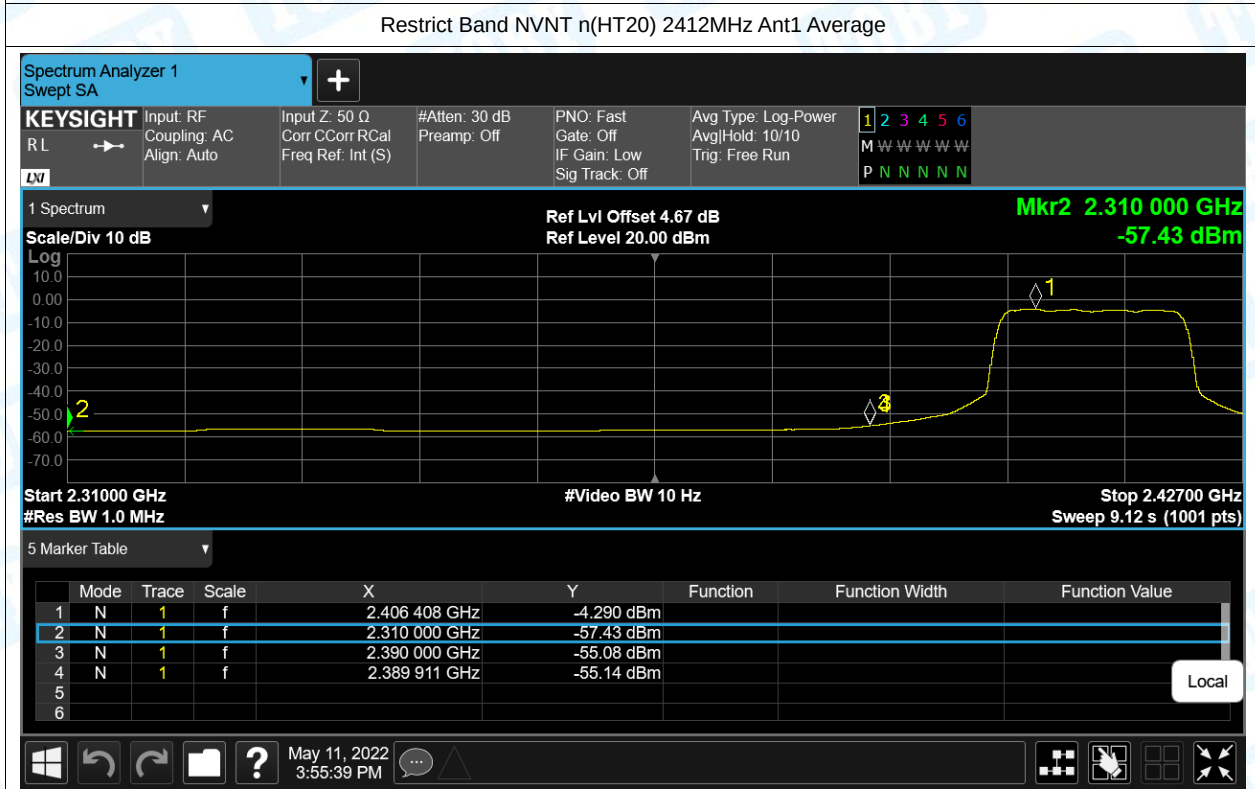
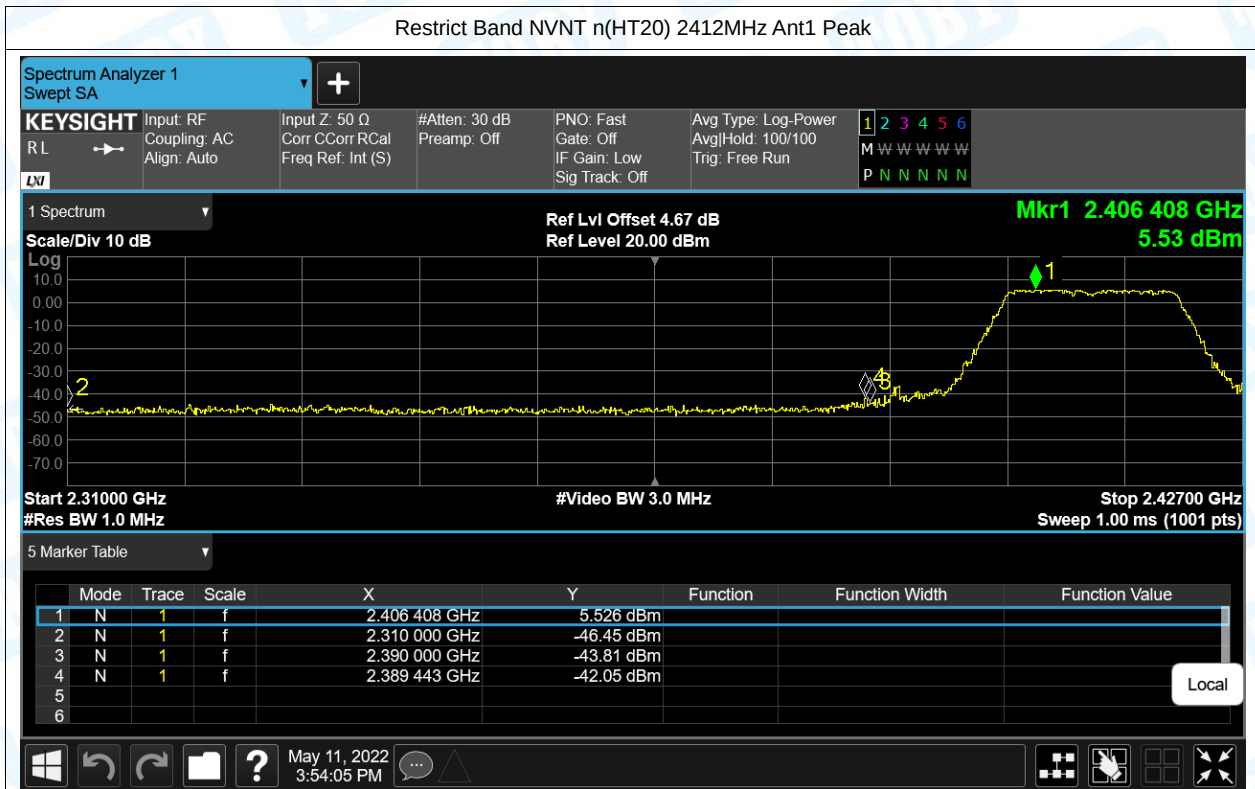
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-48.21	2	49.05	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-57.24	2	40.02	Average	54	Pass
NVNT	b	2412	Ant1	2389.911	-42.54	2	54.72	Peak	74	Pass
NVNT	b	2412	Ant1	2386.986	-55.28	2	41.98	Average	54	Pass
NVNT	b	2412	Ant1	2390	-43.85	2	53.41	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-55.91	2	41.35	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-46.21	2	51.05	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-55.63	2	41.63	Average	54	Pass
NVNT	b	2462	Ant1	2488.234	-42.53	2	54.73	Peak	74	Pass
NVNT	b	2462	Ant1	2487.492	-55.22	2	42.04	Average	54	Pass
NVNT	b	2462	Ant1	2500	-46.43	2	50.83	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-56.38	2	40.88	Average	54	Pass
NVNT	g	2412	Ant1	2310	-46.96	2	50.3	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-57.41	2	39.85	Average	54	Pass
NVNT	g	2412	Ant1	2389.326	-42.38	2	54.88	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-55.68	2	41.58	Average	54	Pass
NVNT	g	2412	Ant1	2390	-45.93	2	51.33	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-55.62	2	41.64	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-41.29	2	55.97	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-54.85	2	42.41	Average	54	Pass
NVNT	g	2462	Ant1	2483.994	-39.84	2	57.42	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-54.85	2	42.41	Average	54	Pass
NVNT	g	2462	Ant1	2500	-46.73	2	50.53	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-56.55	2	40.71	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-46.45	2	50.81	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-57.43	2	39.83	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2389.443	-42.05	2	55.21	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2389.911	-55.14	2	42.12	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-43.81	2	53.45	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-55.08	2	42.18	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-41.86	2	55.4	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-54.32	2	42.94	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.57	-37.7	2	59.56	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.517	-54.32	2	42.94	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-45.16	2	52.1	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-56.53	2	40.73	Average	54	Pass

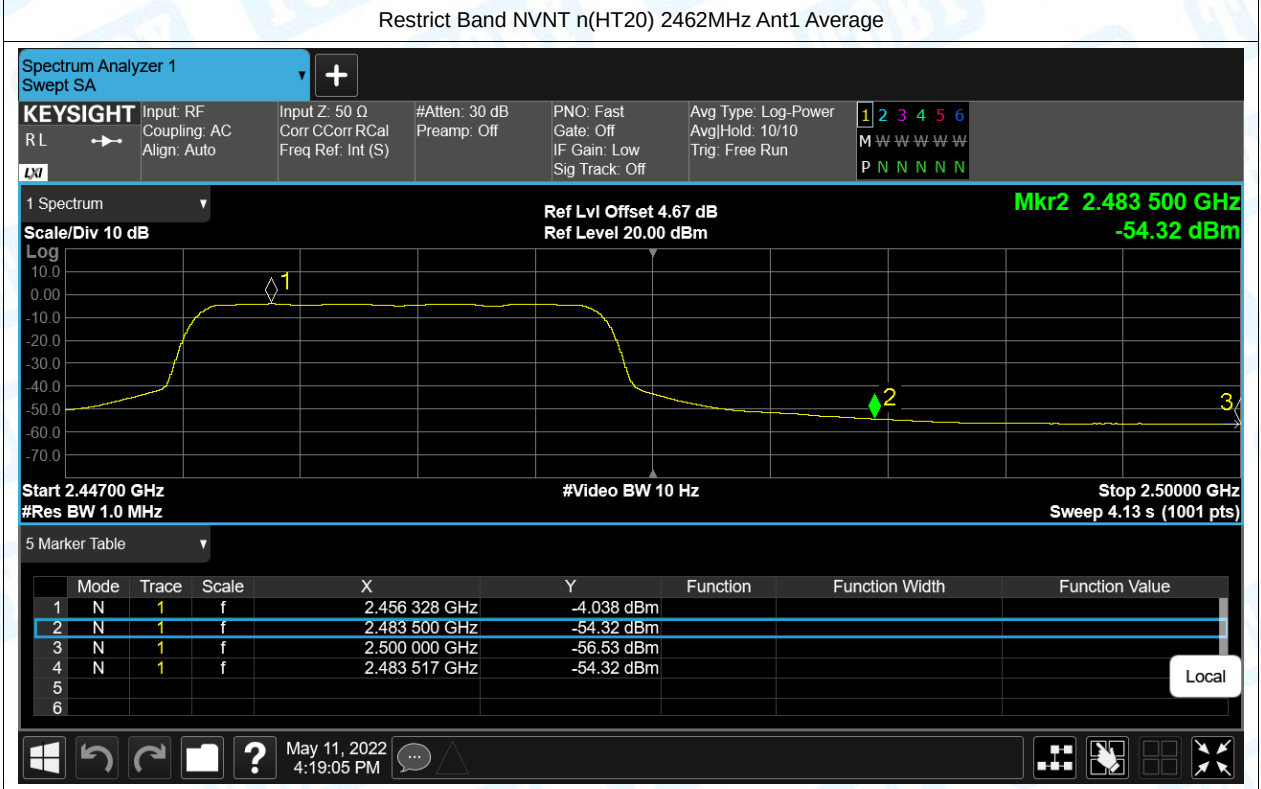
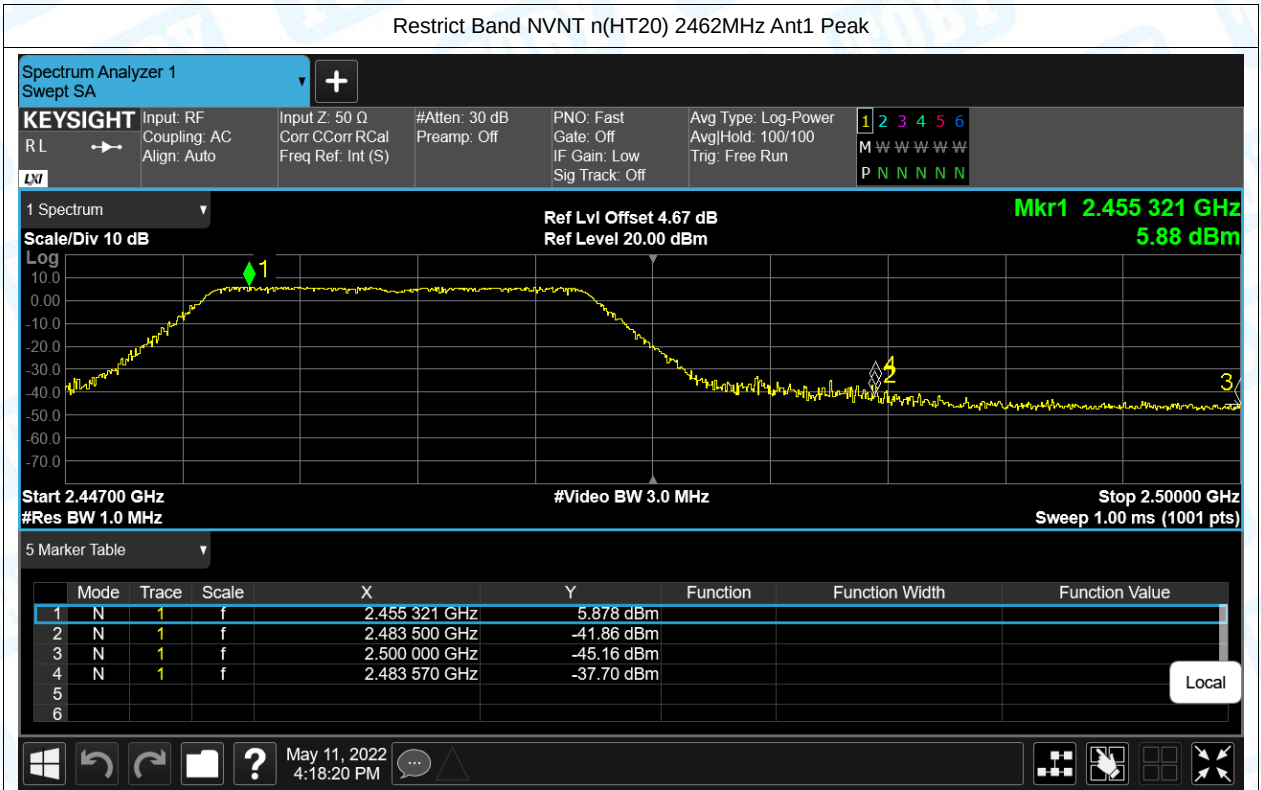












-----End of the report-----