

RF Test Data for 2.4G WiFi (Conducted Measurements)

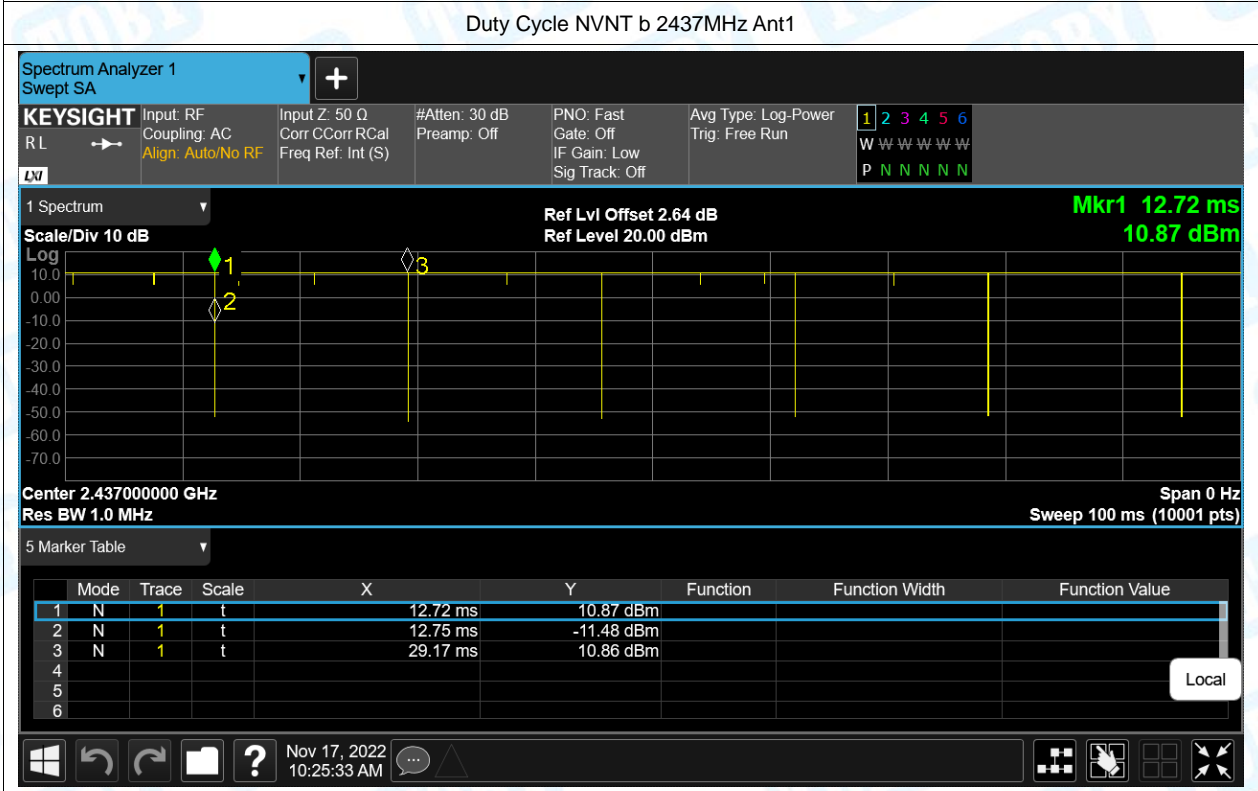
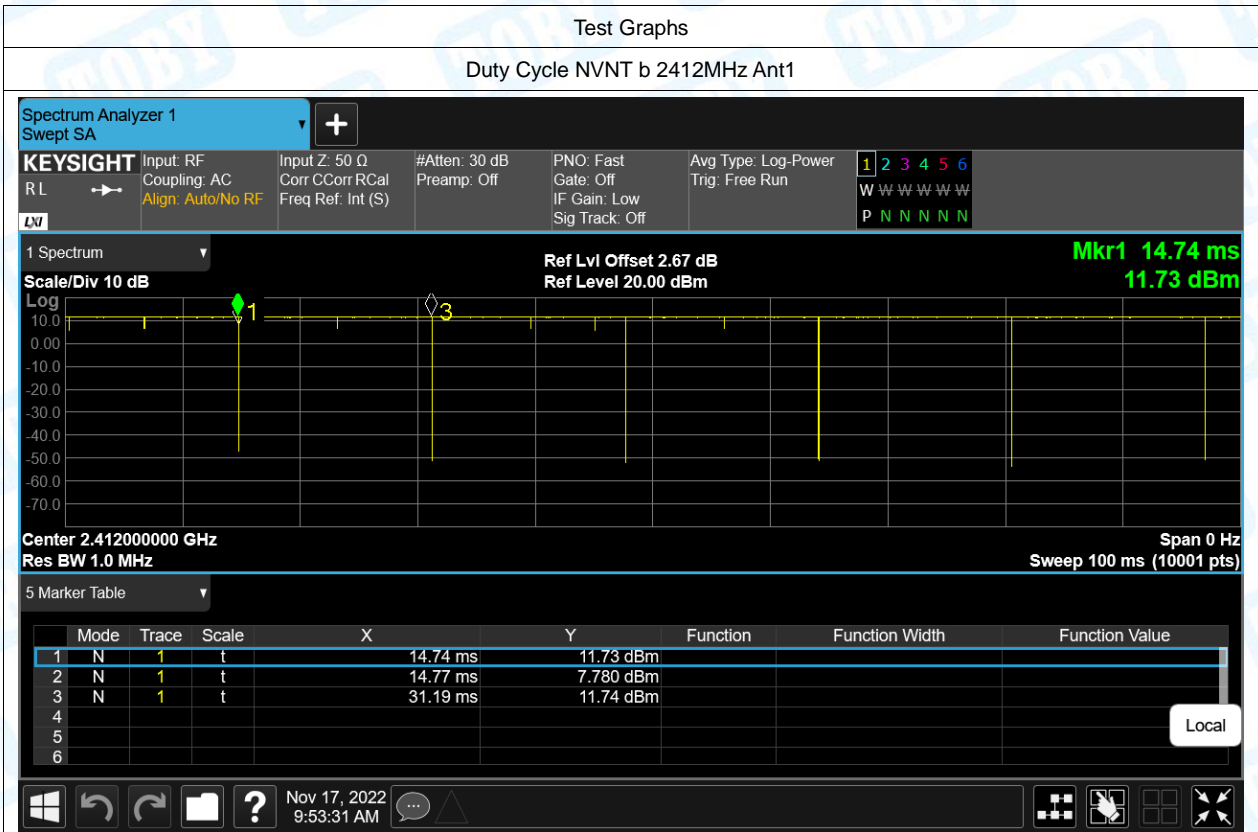
General Description of EUT	
Product Name:	Smart Battery Video Doorbell
Test Model:	DB2
Sample ID:	202211-0111-1-2
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202211-0111-81	

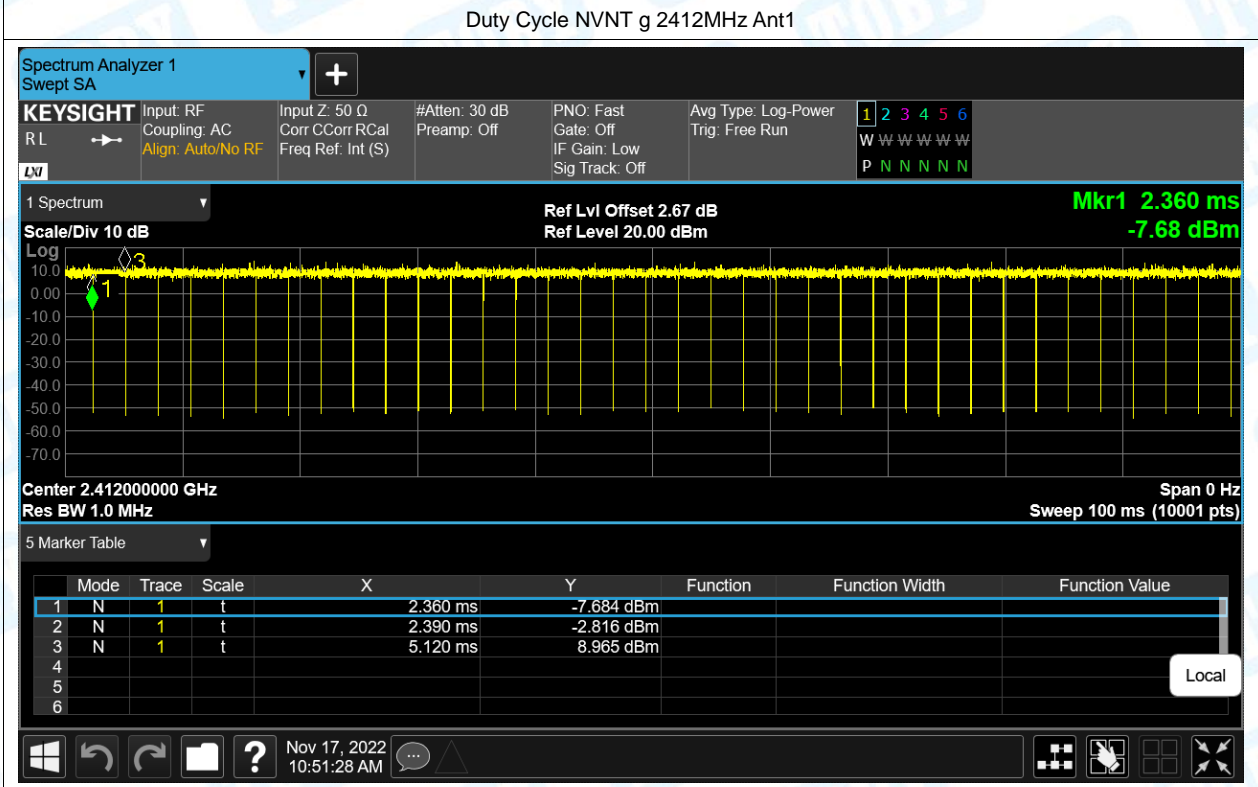
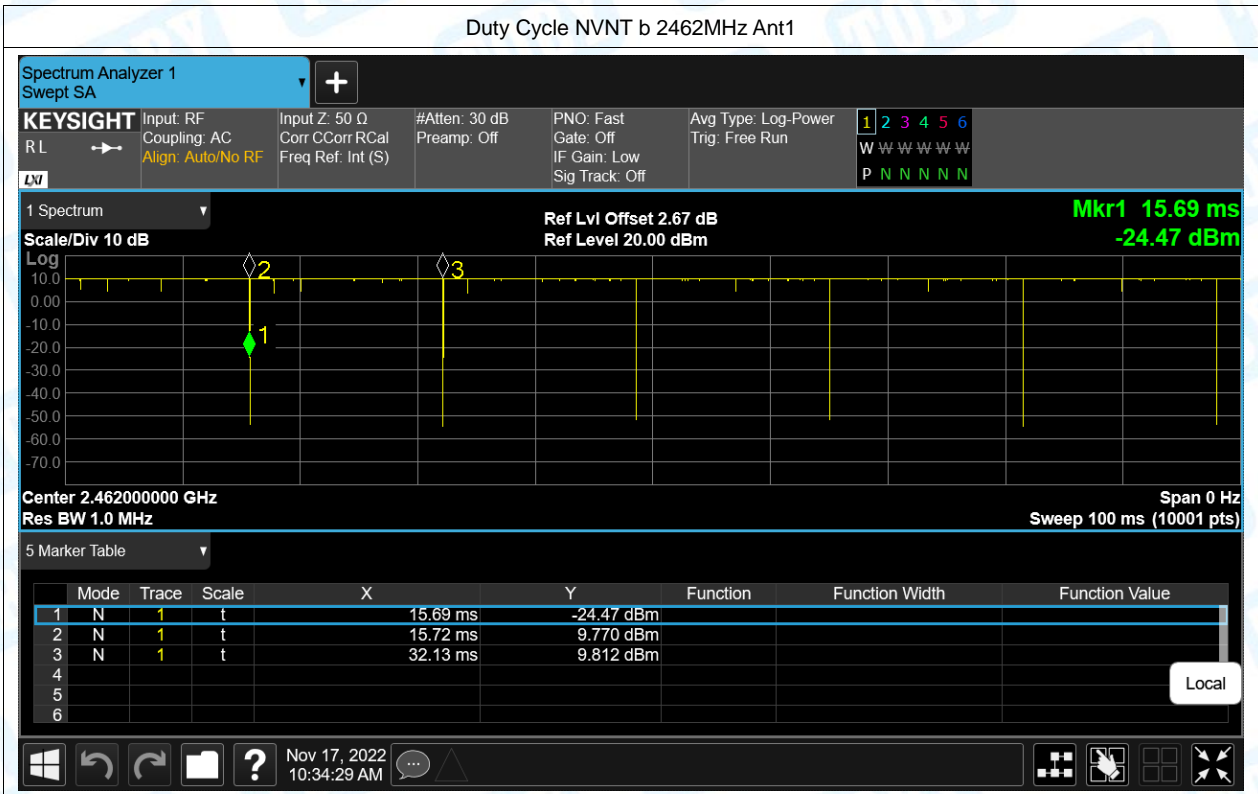
Contents

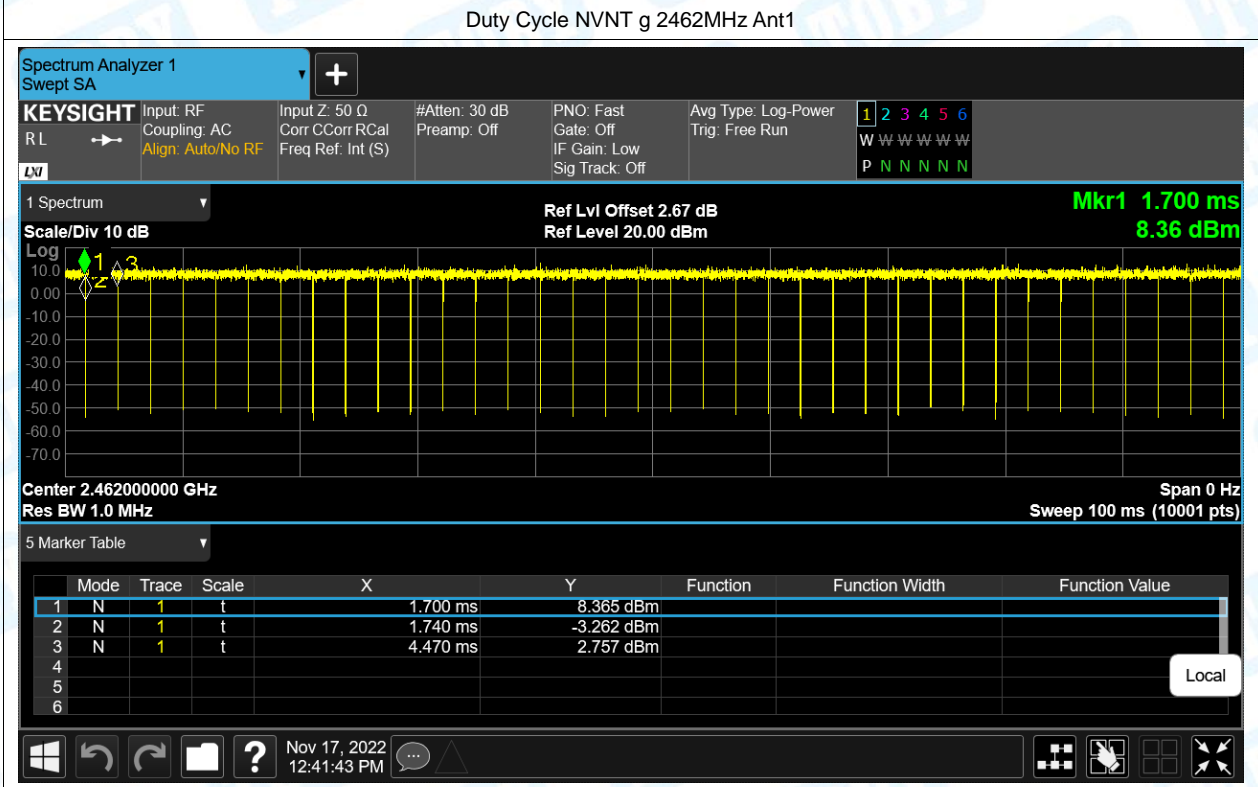
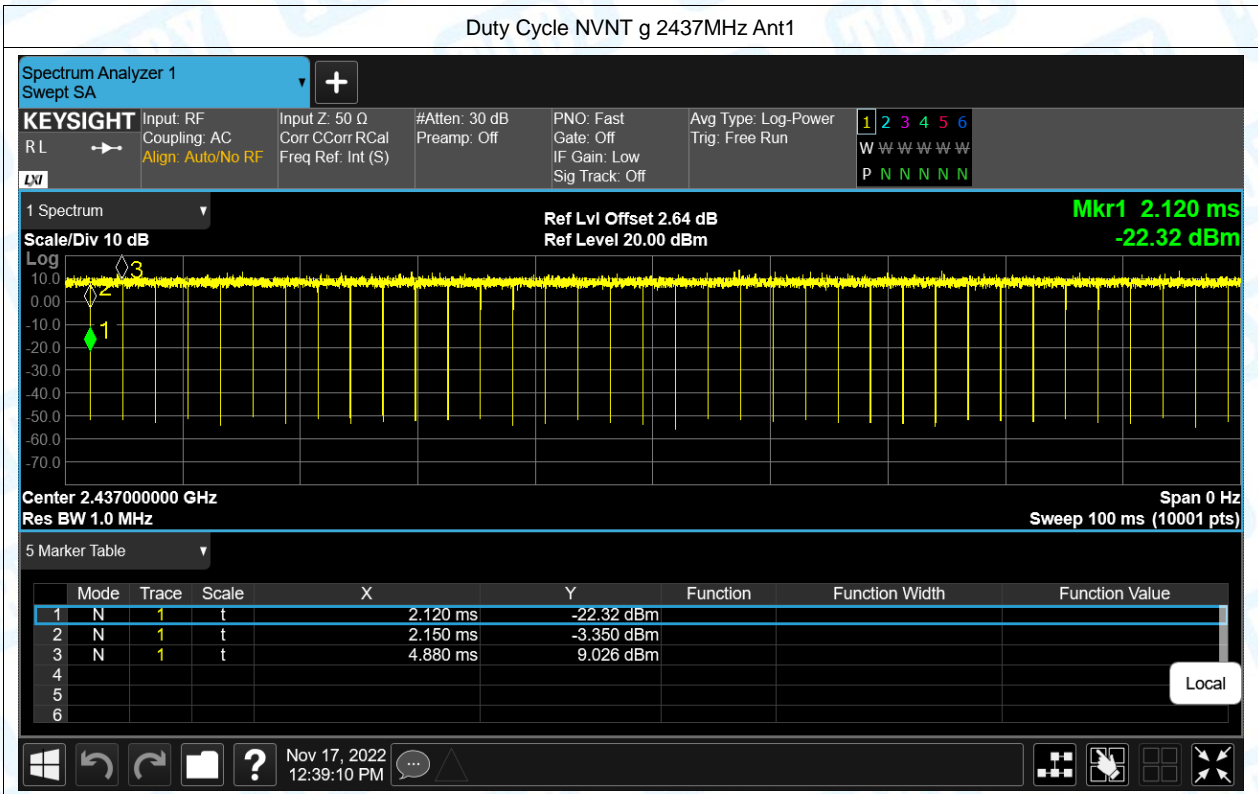
1. Duty Cycle.....	3
2. Maximum Conducted Output Power.....	9
3. -6dB Bandwidth.....	10
4. Occupied Channel Bandwidth.....	16
5. Maximum Power Spectral Density Level.....	22
6. Band Edge.....	28
7. Conducted RF Spurious Emission.....	35
8. Restrict Band.....	45

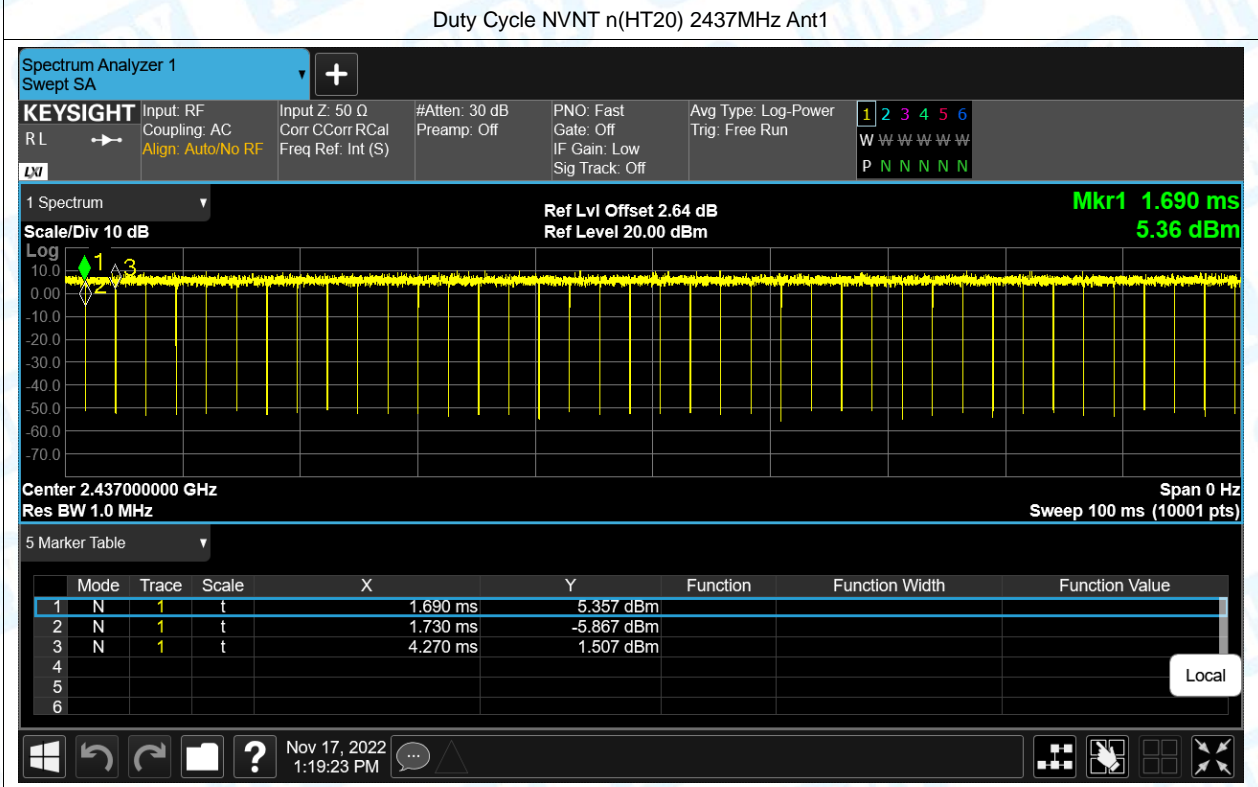
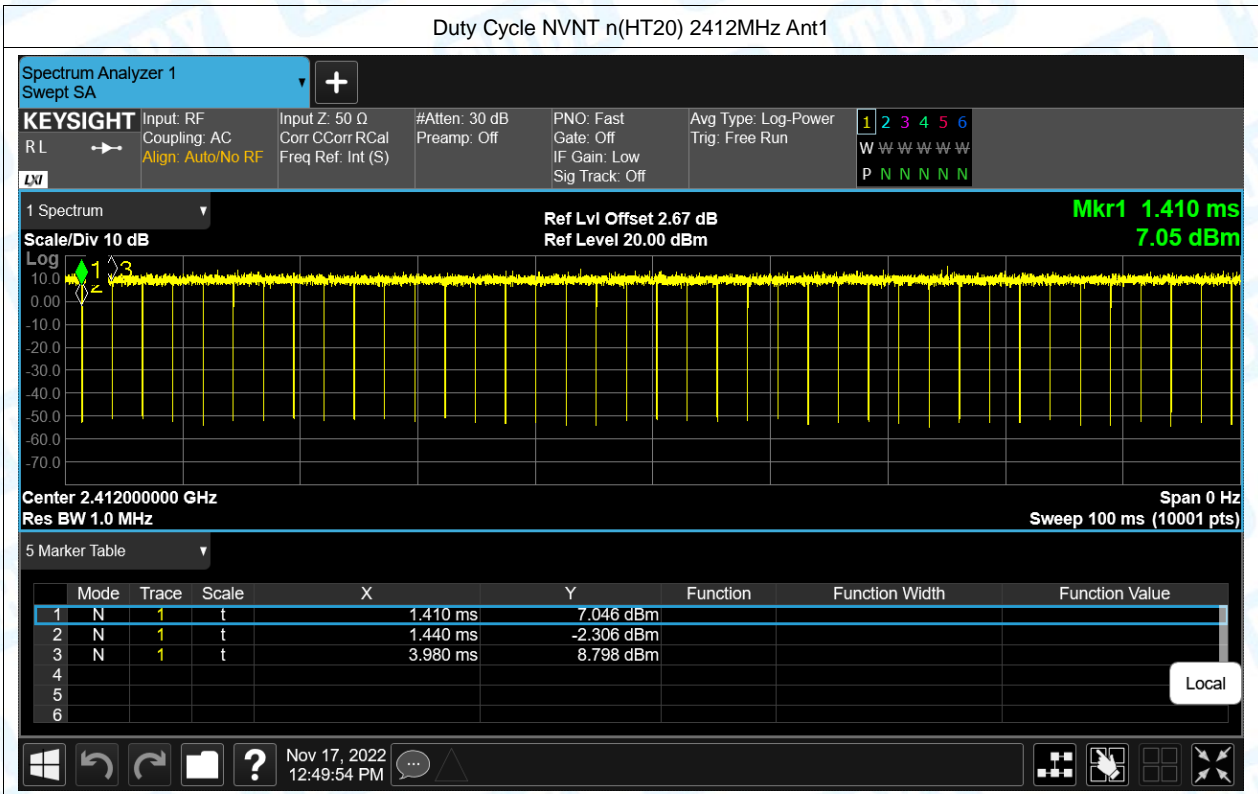
1. Duty Cycle

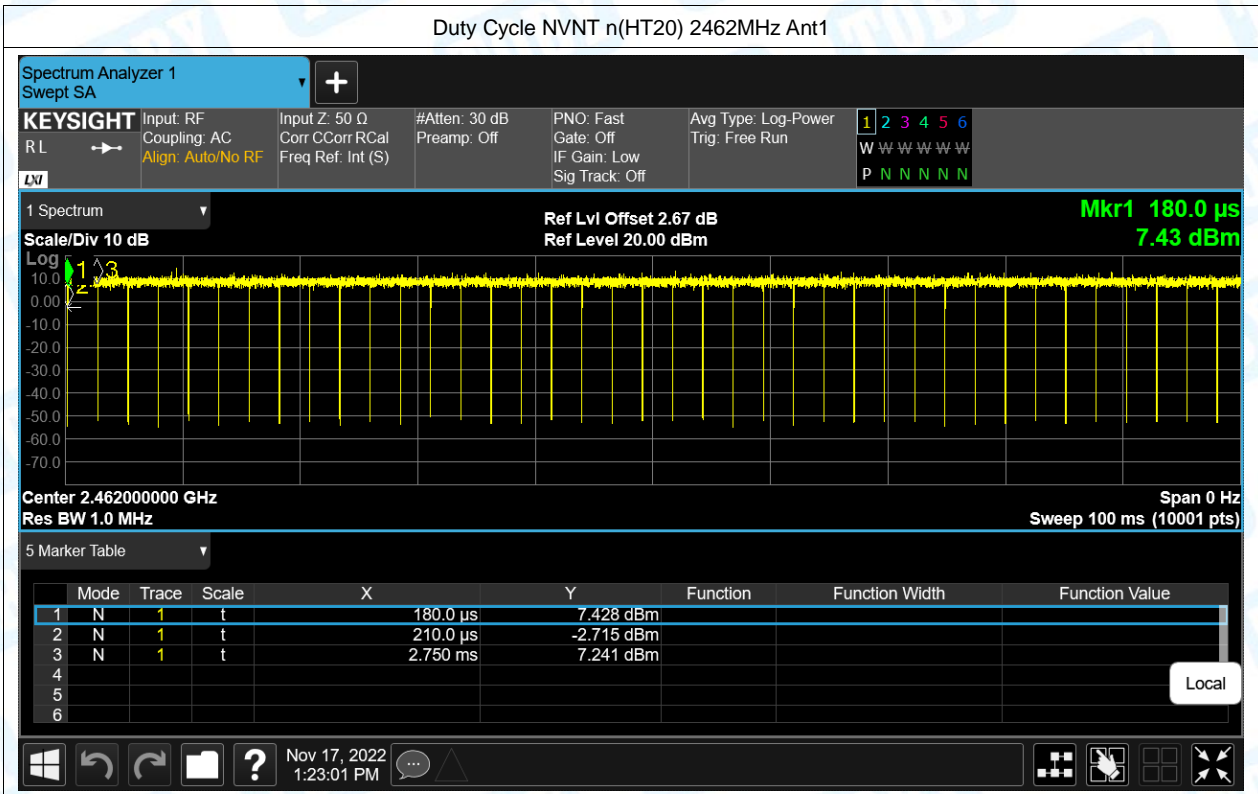
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.82	0.01	0.06
NVNT	b	2437	Ant1	99.82	0.01	0.06
NVNT	b	2462	Ant1	99.82	0.01	0.06
NVNT	g	2412	Ant1	98.91	0.05	0.37
NVNT	g	2437	Ant1	98.91	0.05	0.37
NVNT	g	2462	Ant1	98.56	0.06	0.37
NVNT	n(HT20)	2412	Ant1	98.83	0.05	0.39
NVNT	n(HT20)	2437	Ant1	98.45	0.07	0.39
NVNT	n(HT20)	2462	Ant1	98.83	0.05	0.39









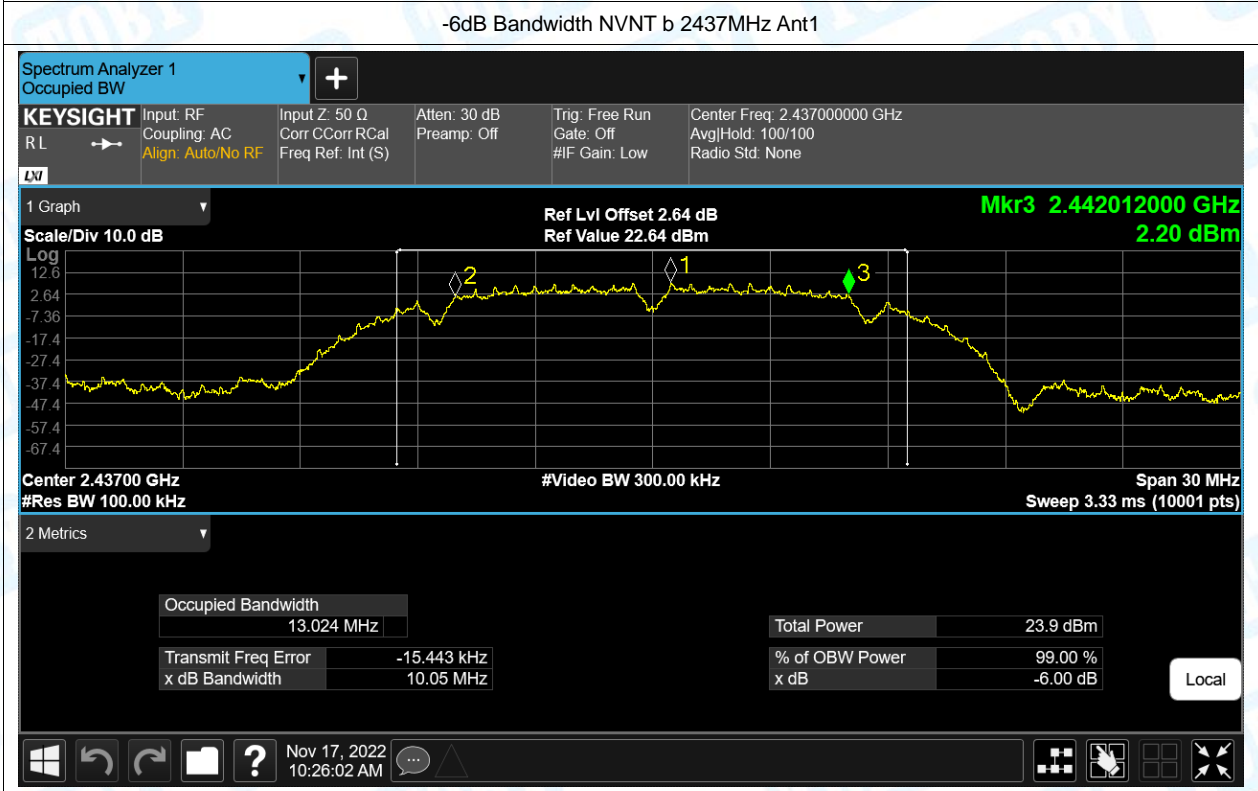
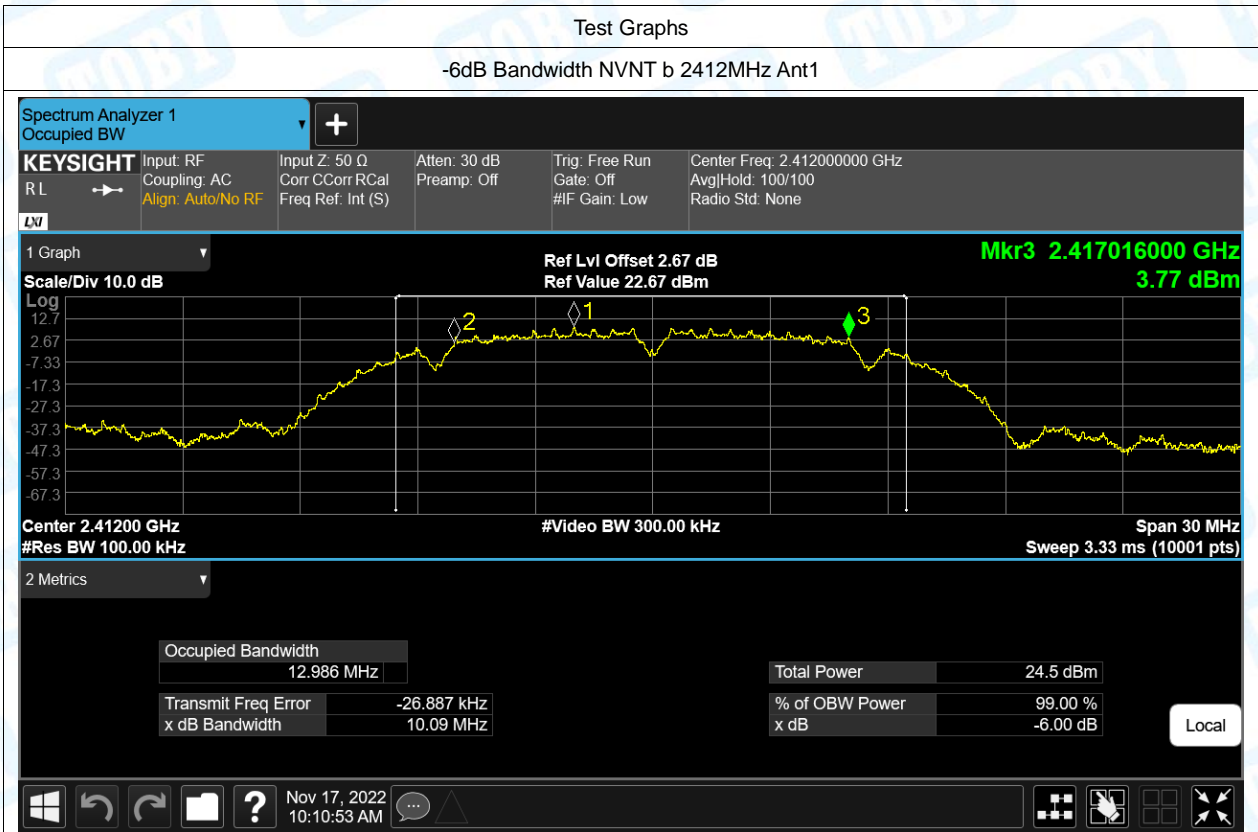


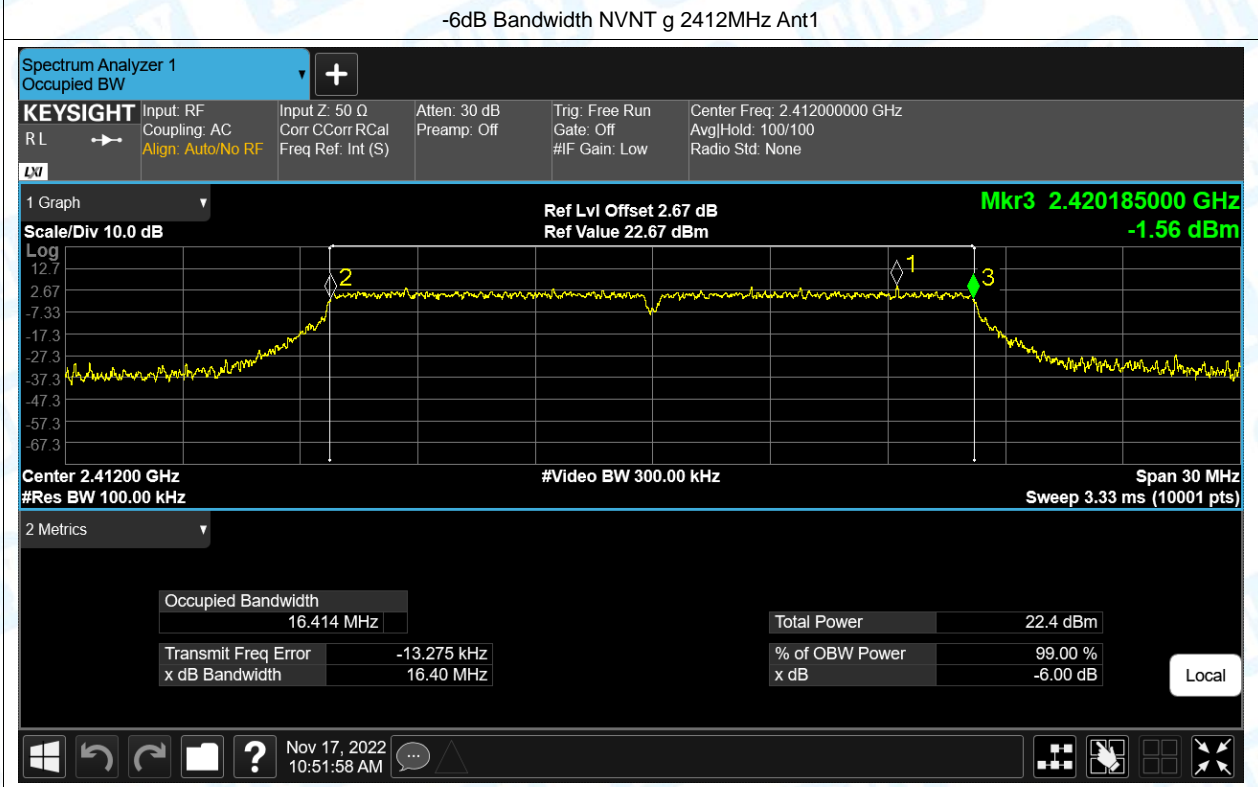
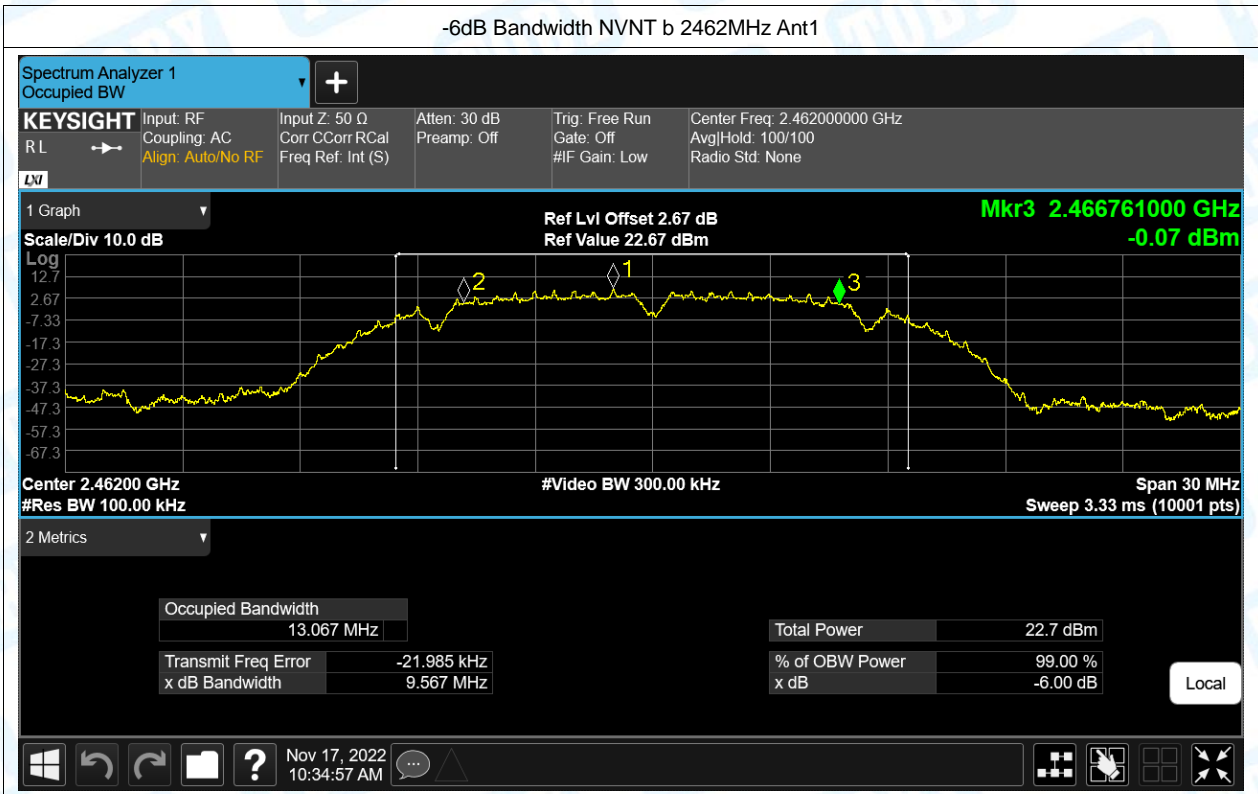
2. Maximum Conducted Output Power

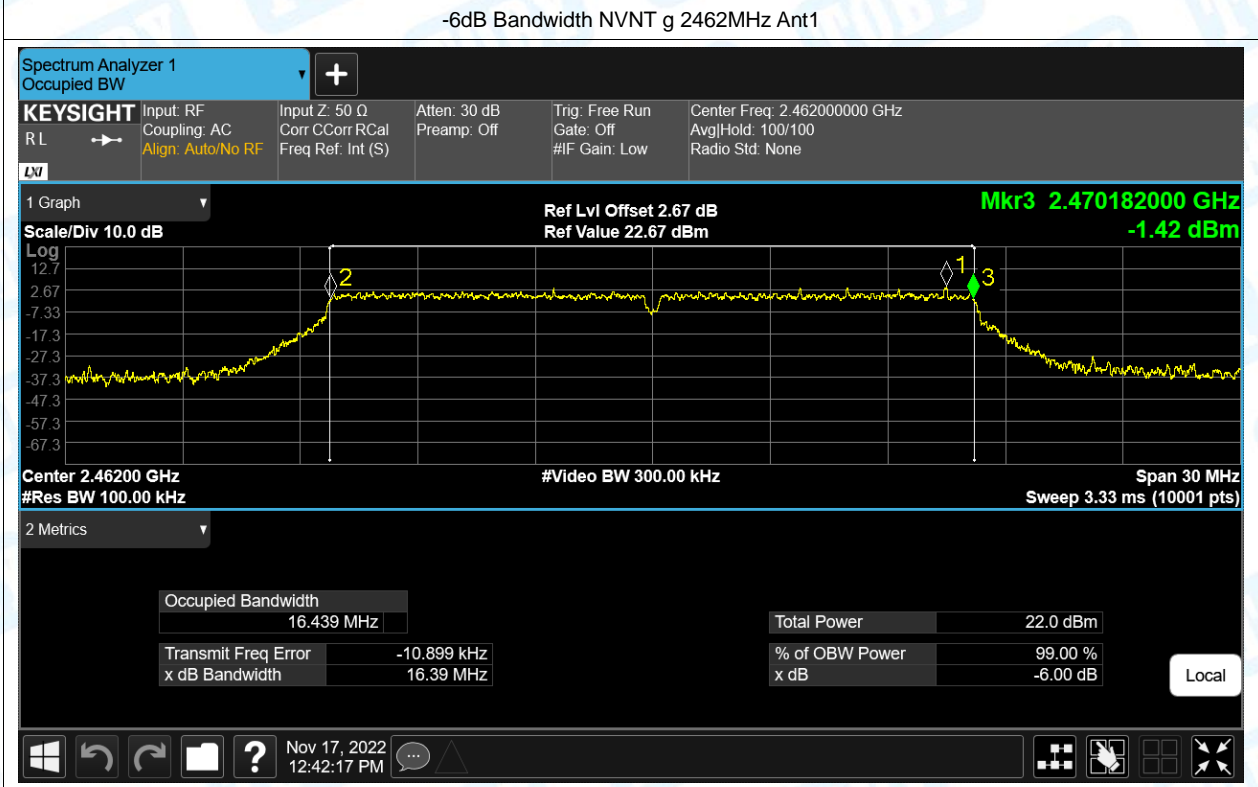
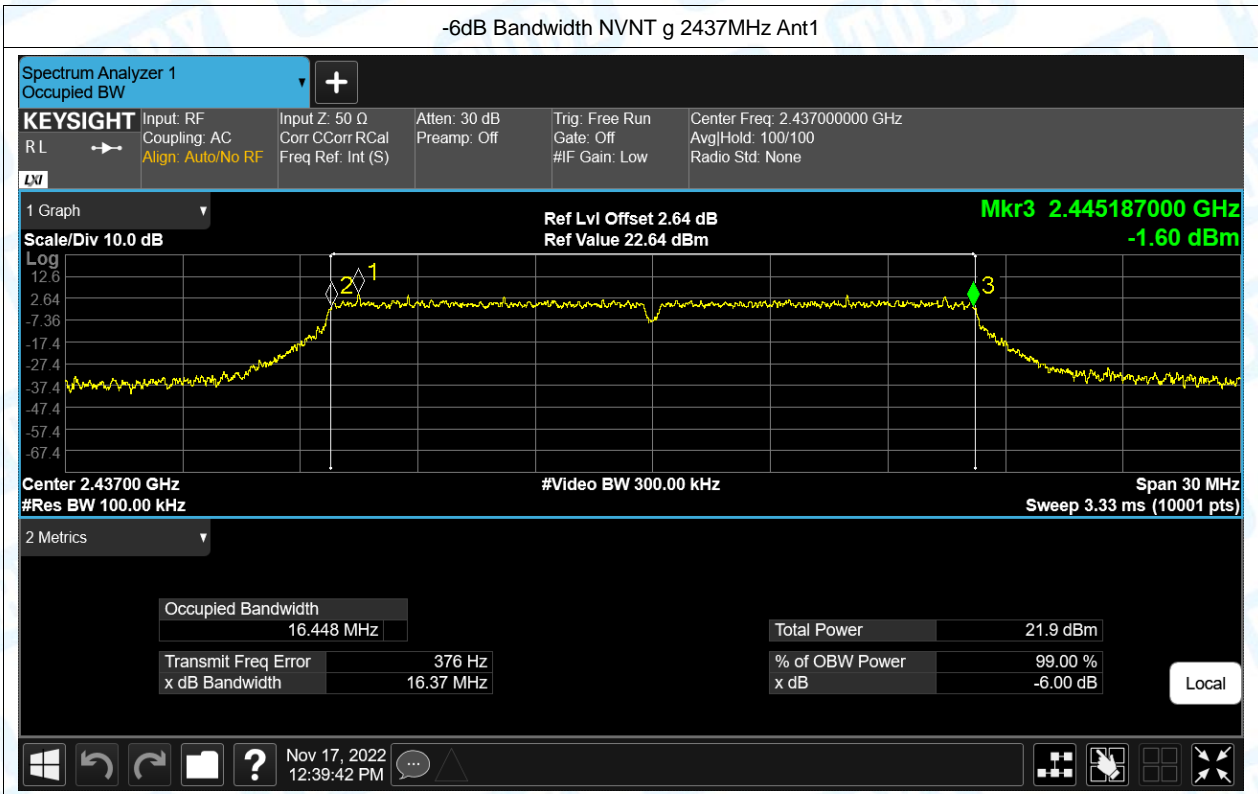
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.004	30	Pass
NVNT	b	2437	Ant1	17.438	30	Pass
NVNT	b	2462	Ant1	16.201	30	Pass
NVNT	g	2412	Ant1	15.27	30	Pass
NVNT	g	2437	Ant1	16.19	30	Pass
NVNT	g	2462	Ant1	15.257	30	Pass
NVNT	n(HT20)	2412	Ant1	14.985	30	Pass
NVNT	n(HT20)	2437	Ant1	15.323	30	Pass
NVNT	n(HT20)	2462	Ant1	14.992	30	Pass

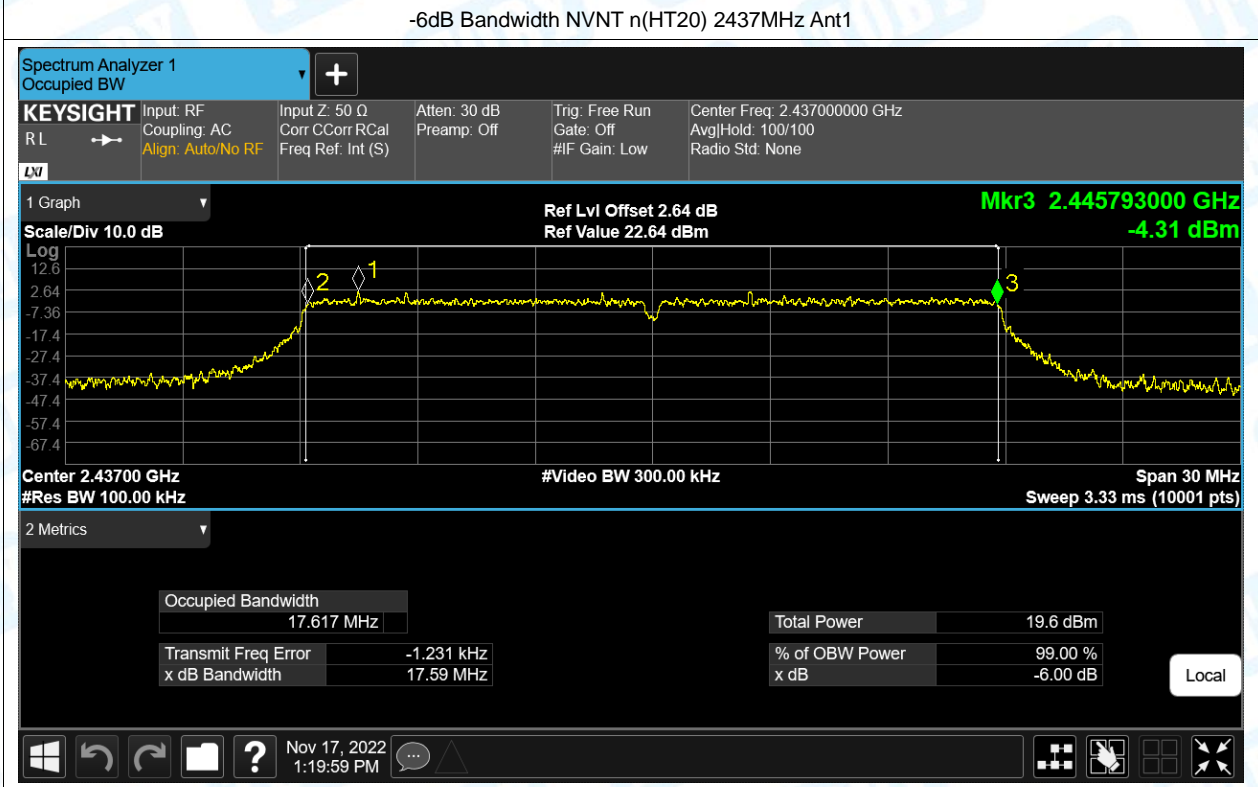
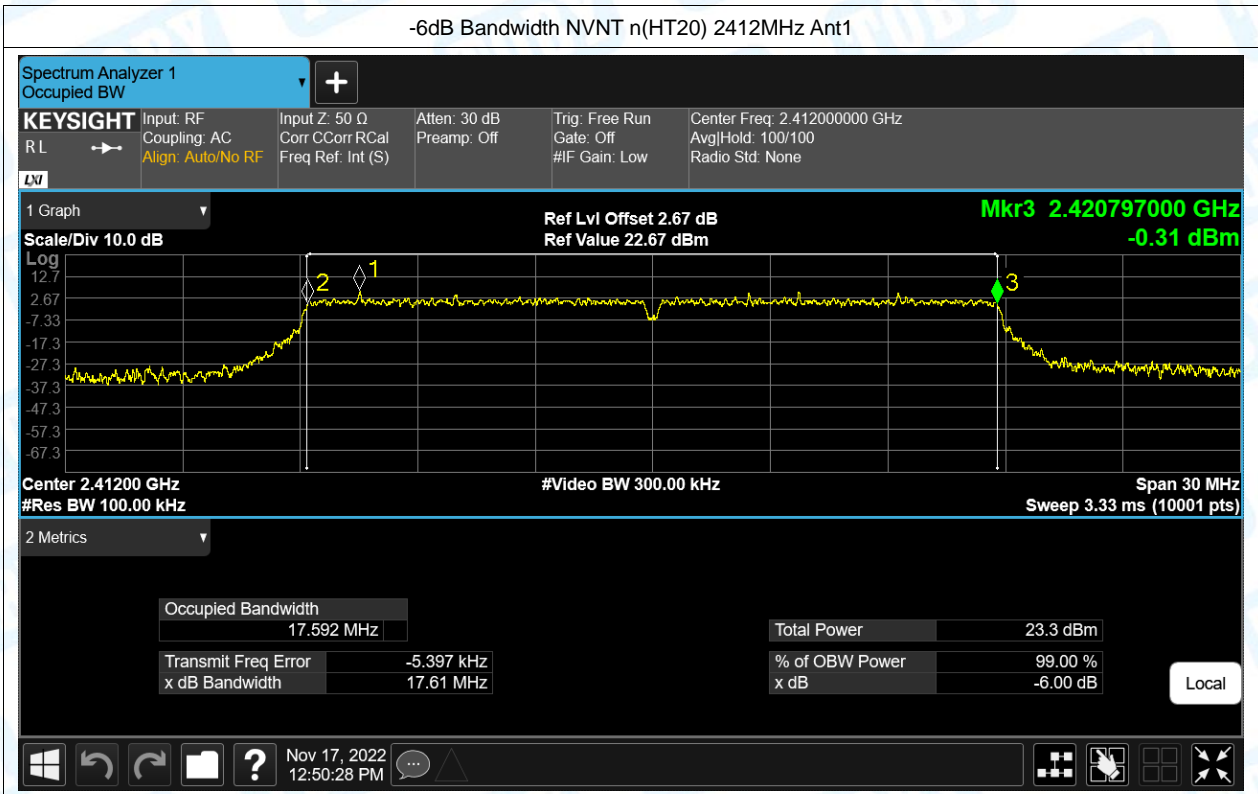
3. -6dB Bandwidth

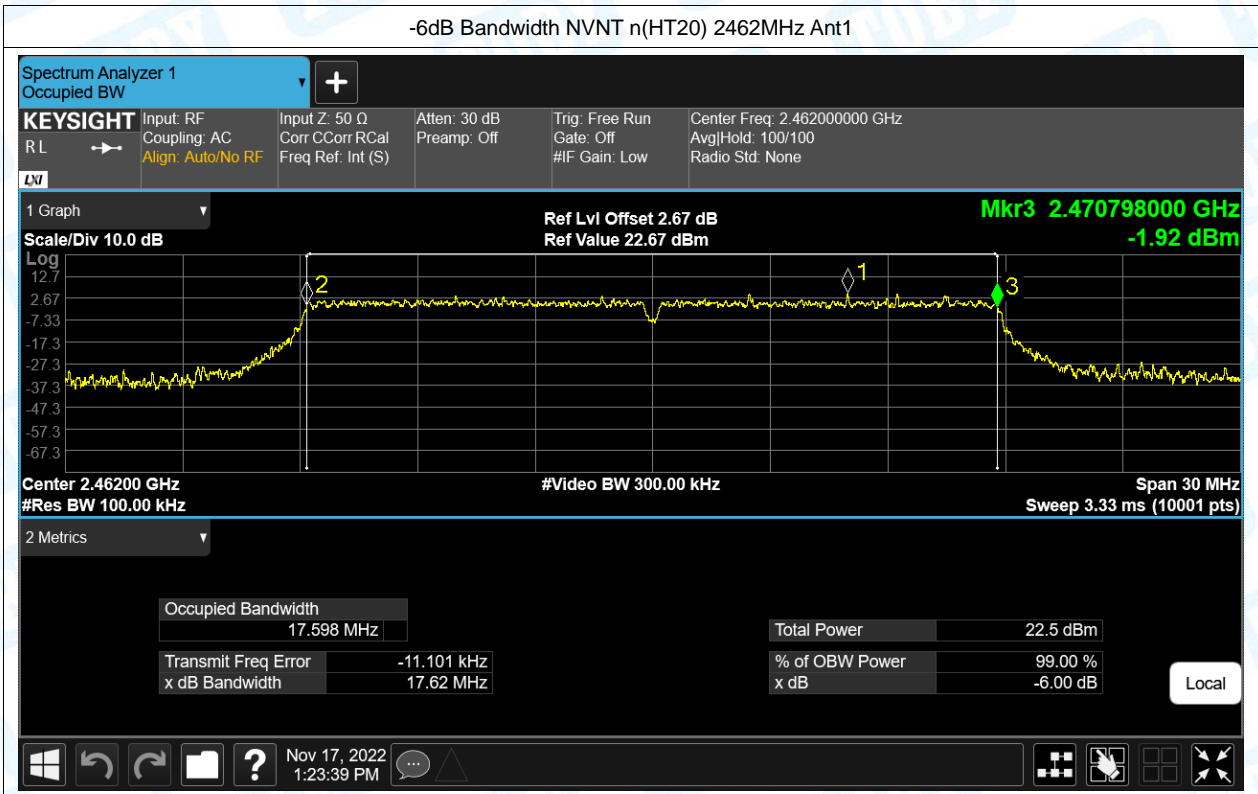
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.09	0.5	Pass
NVNT	b	2437	Ant1	10.05	0.5	Pass
NVNT	b	2462	Ant1	9.57	0.5	Pass
NVNT	g	2412	Ant1	16.4	0.5	Pass
NVNT	g	2437	Ant1	16.37	0.5	Pass
NVNT	g	2462	Ant1	16.39	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.61	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.59	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.62	0.5	Pass





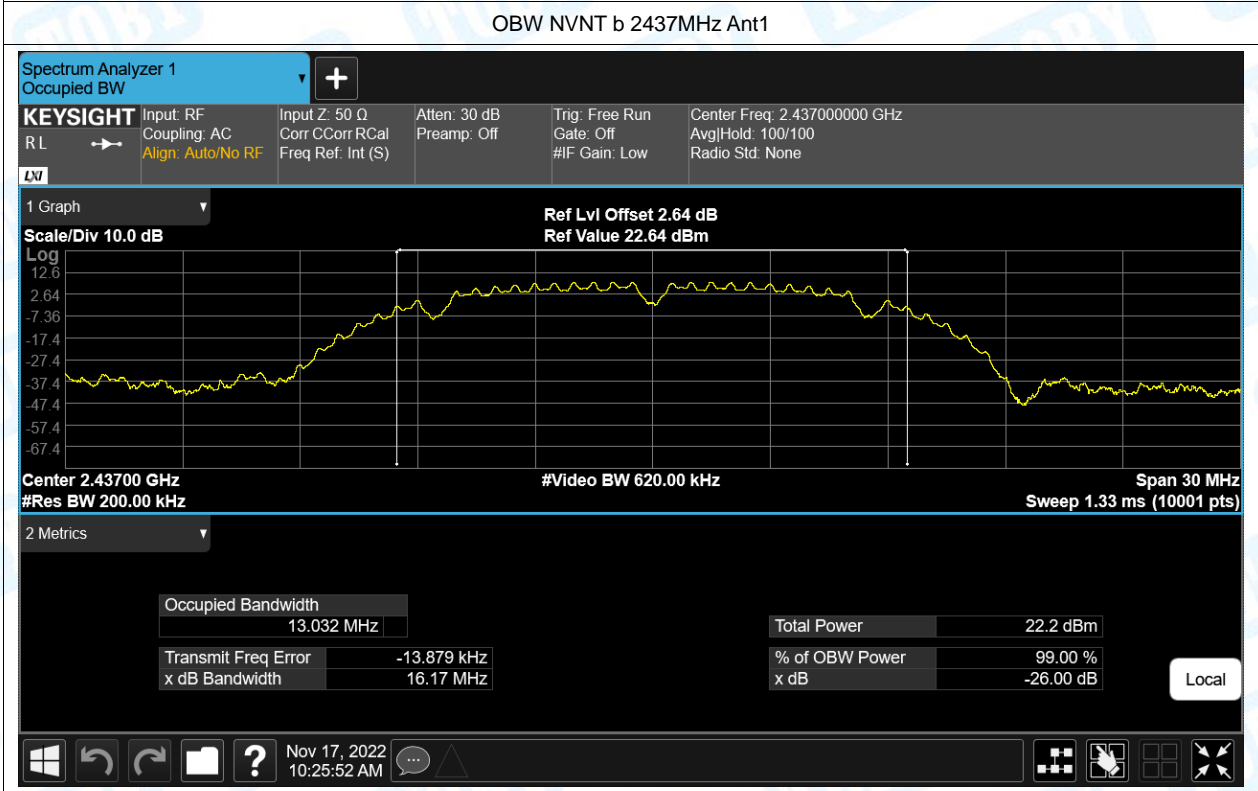
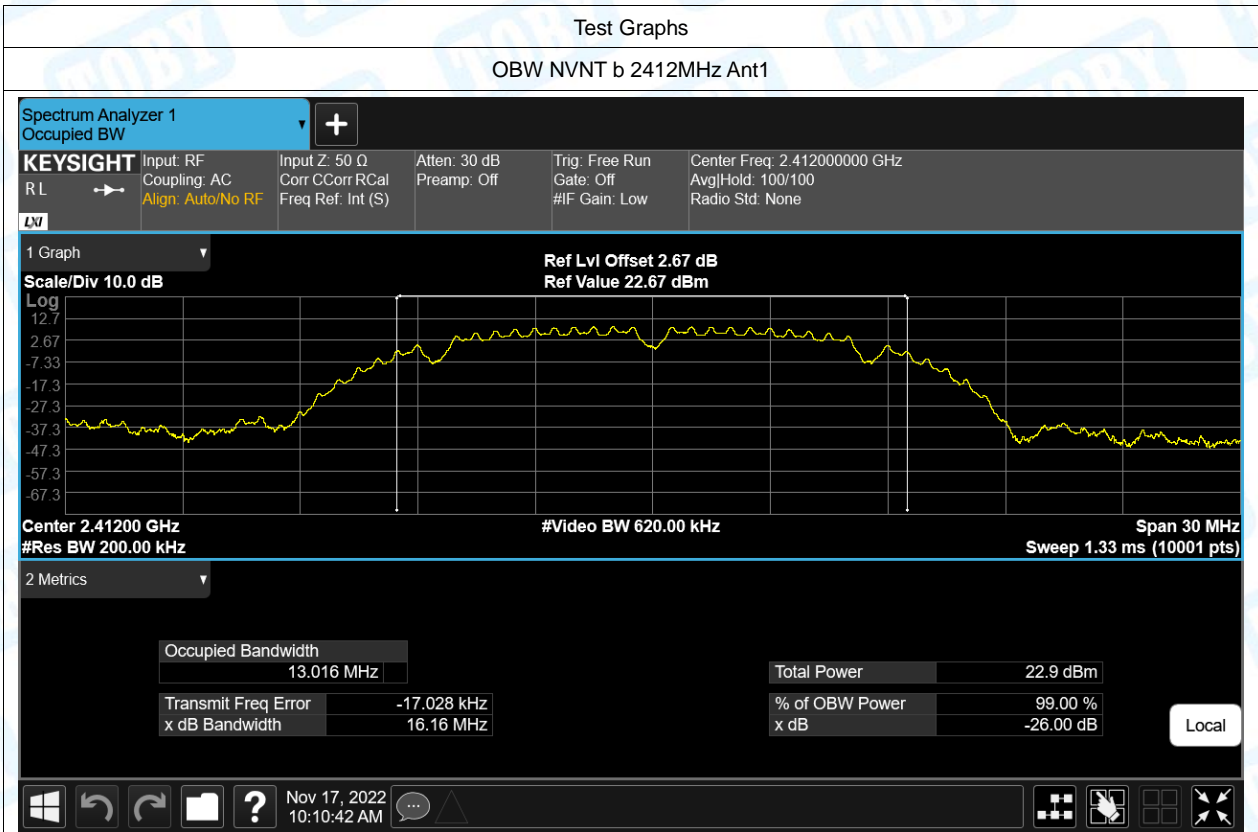


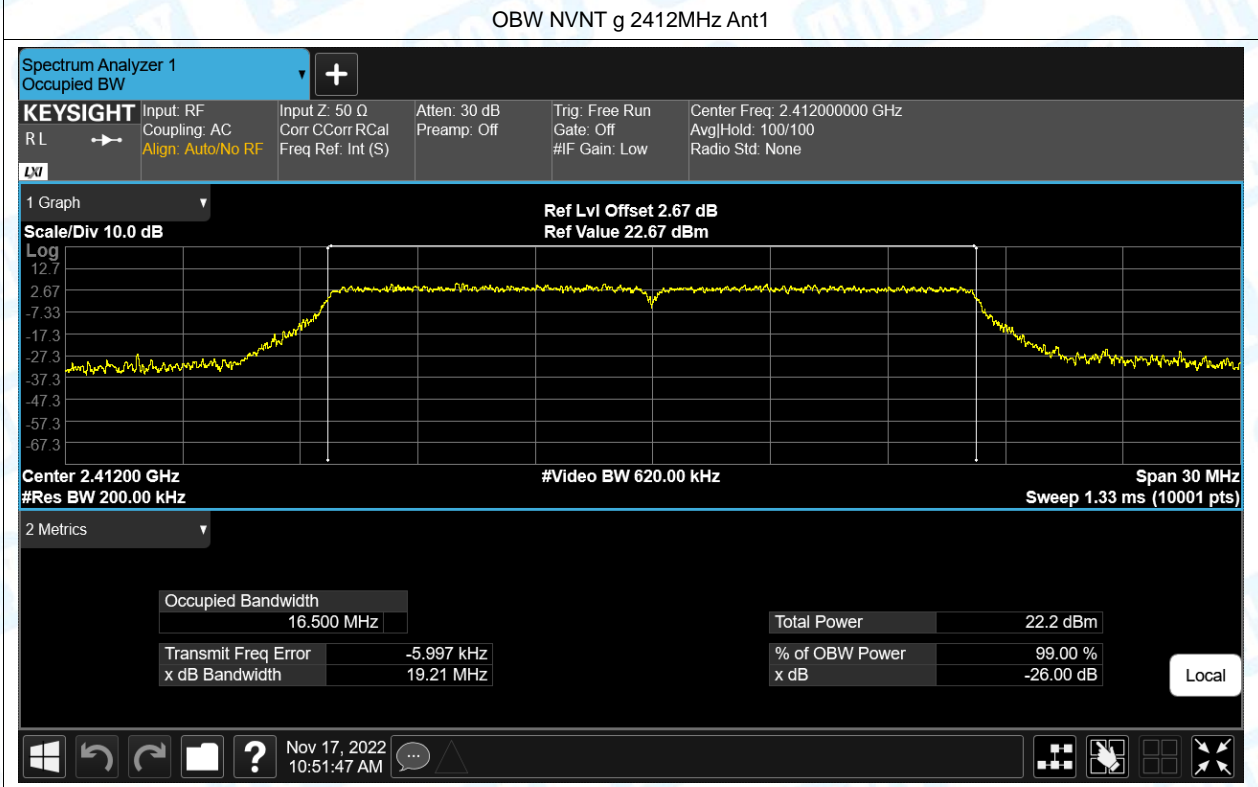
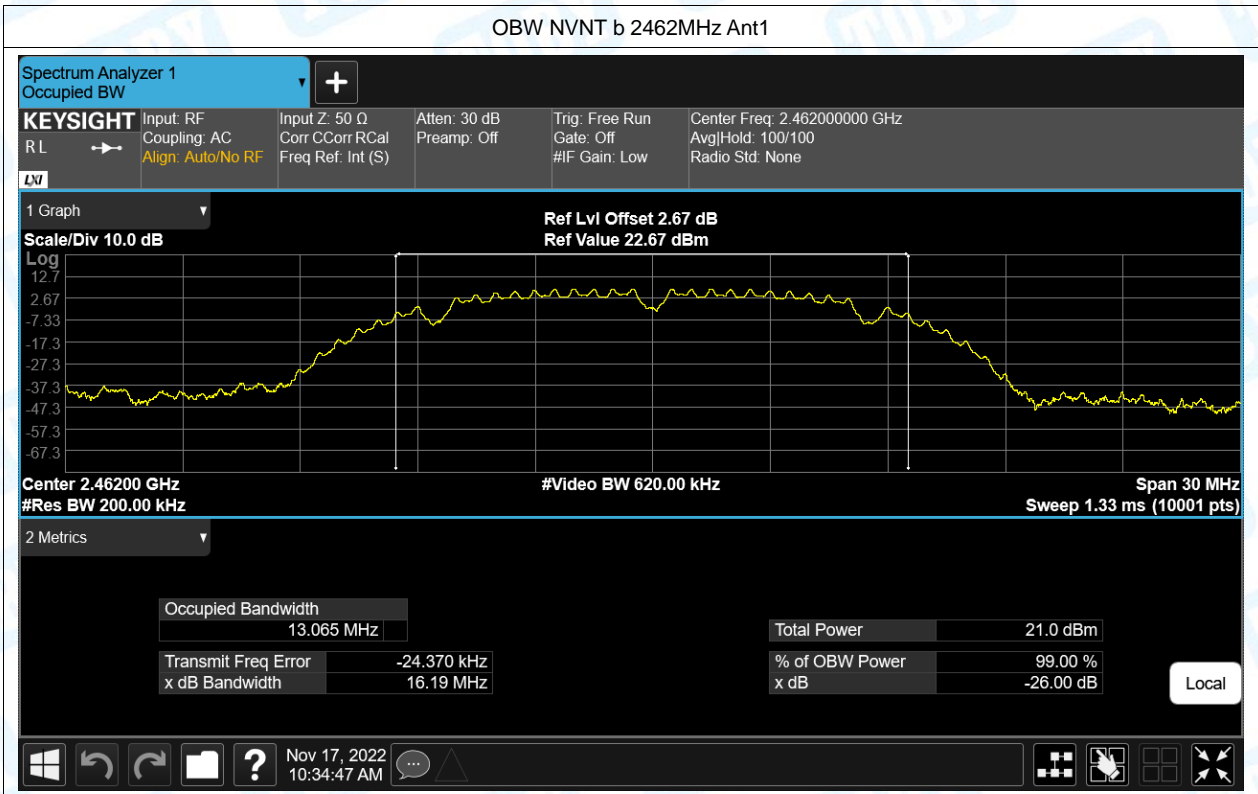


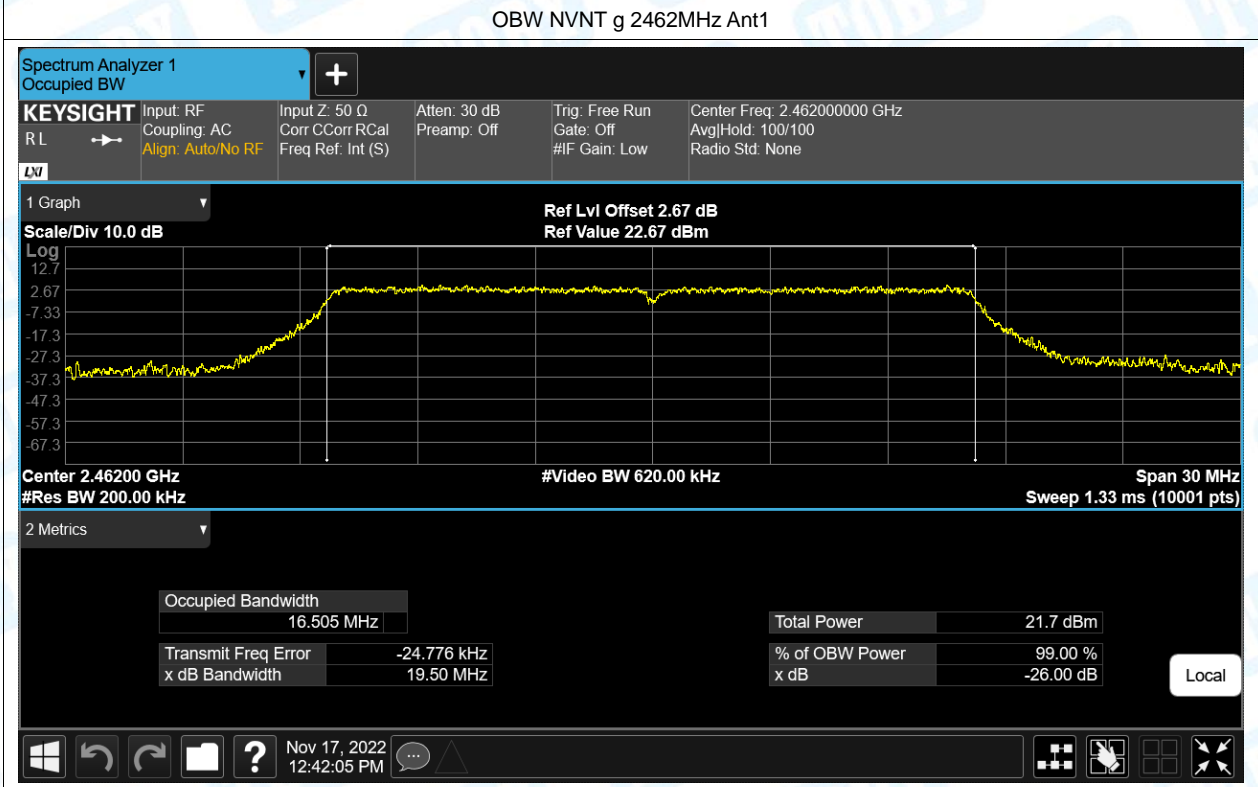
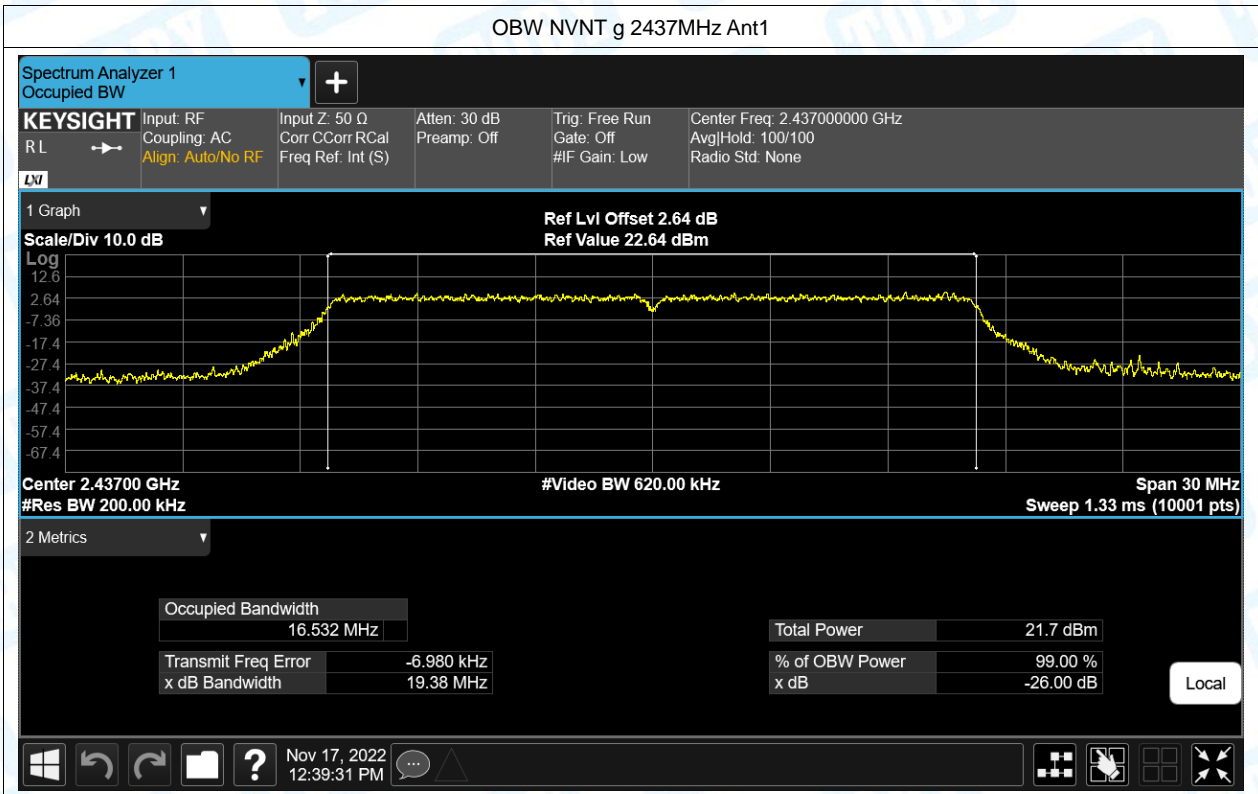


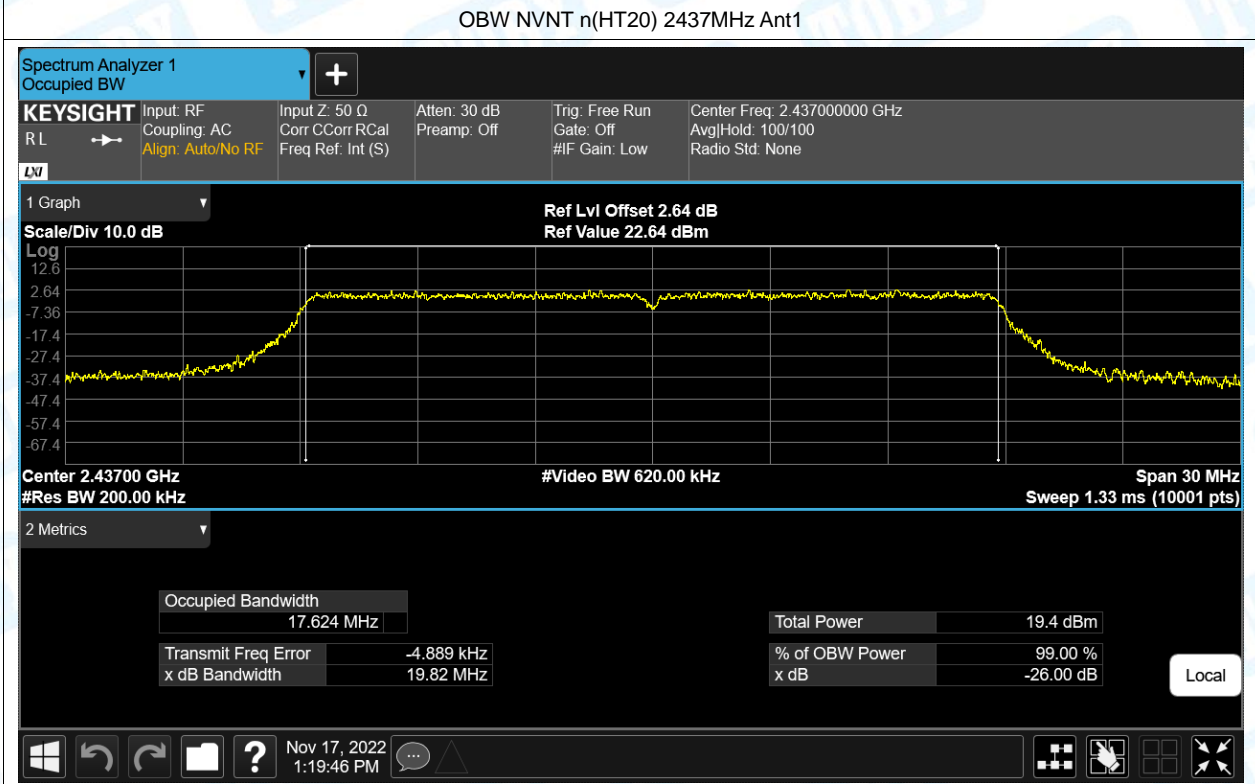
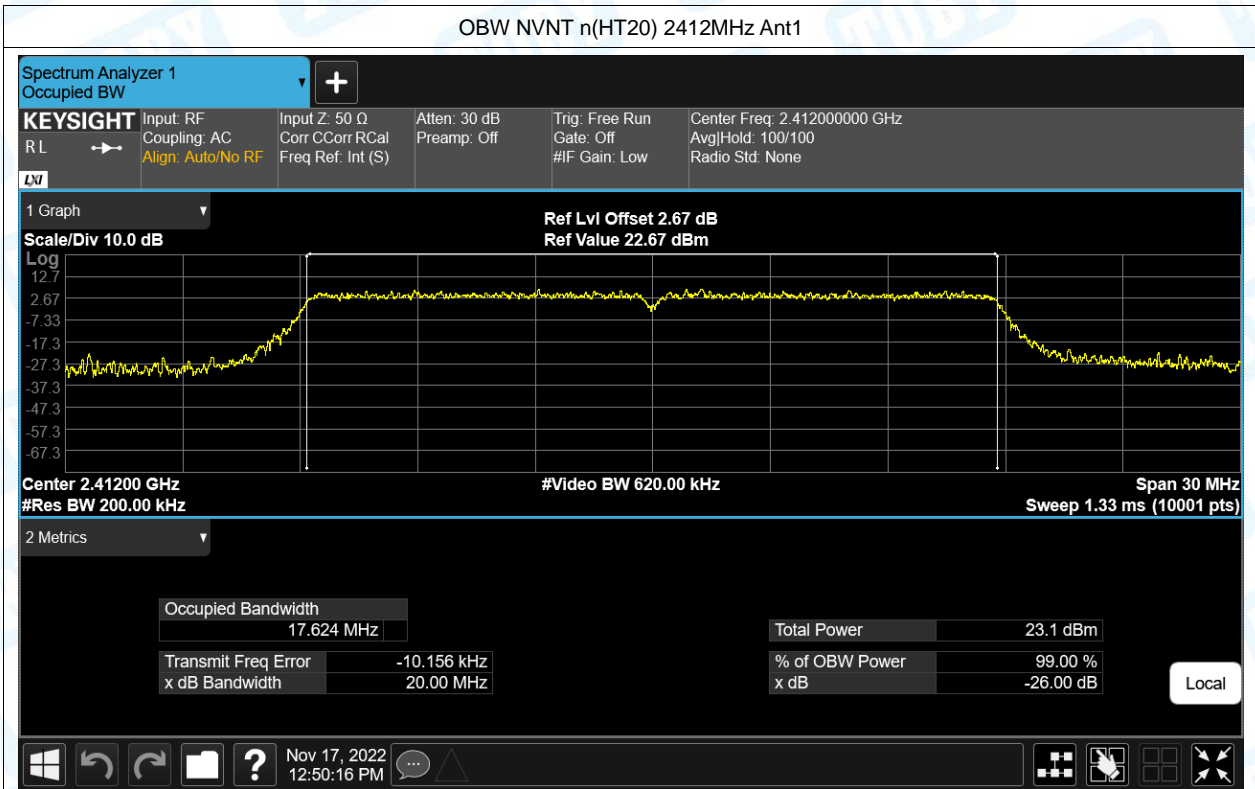
4. Occupied Channel Bandwidth

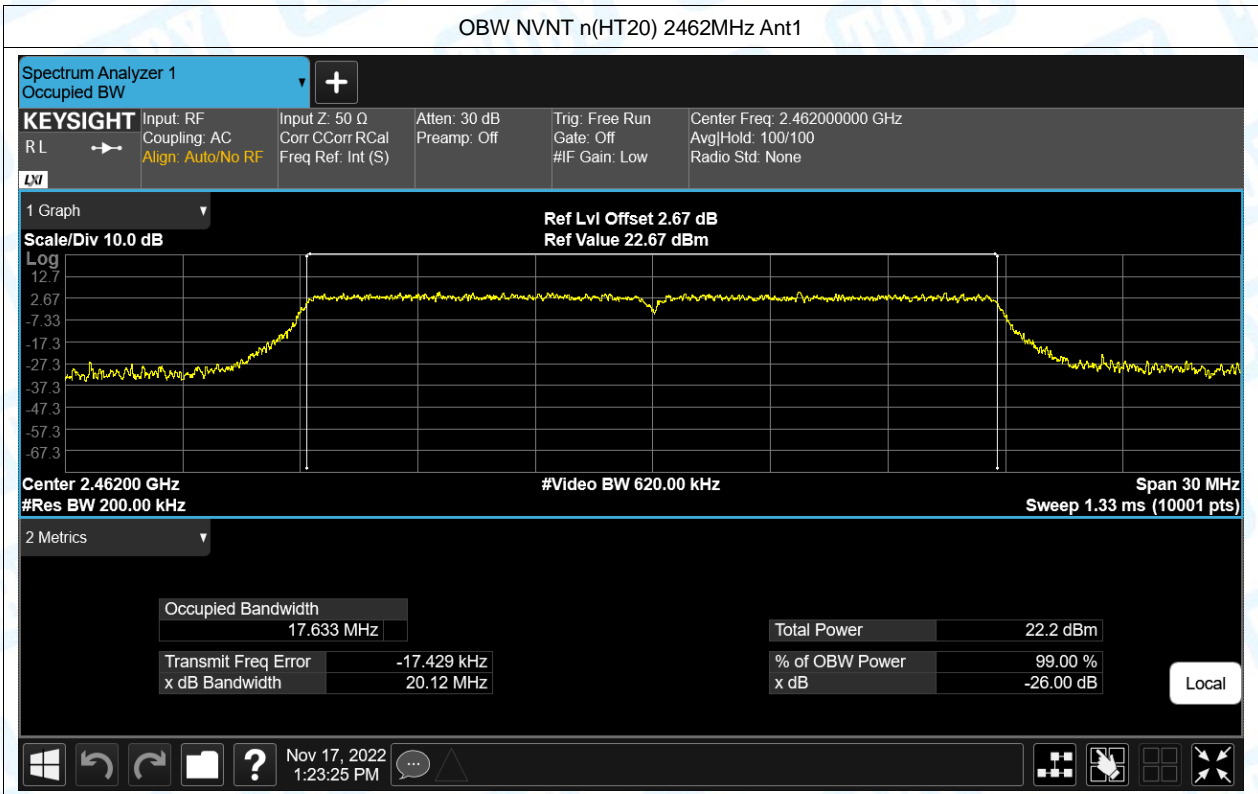
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.016
NVNT	b	2437	Ant1	13.032
NVNT	b	2462	Ant1	13.065
NVNT	g	2412	Ant1	16.5
NVNT	g	2437	Ant1	16.532
NVNT	g	2462	Ant1	16.505
NVNT	n(HT20)	2412	Ant1	17.624
NVNT	n(HT20)	2437	Ant1	17.624
NVNT	n(HT20)	2462	Ant1	17.633





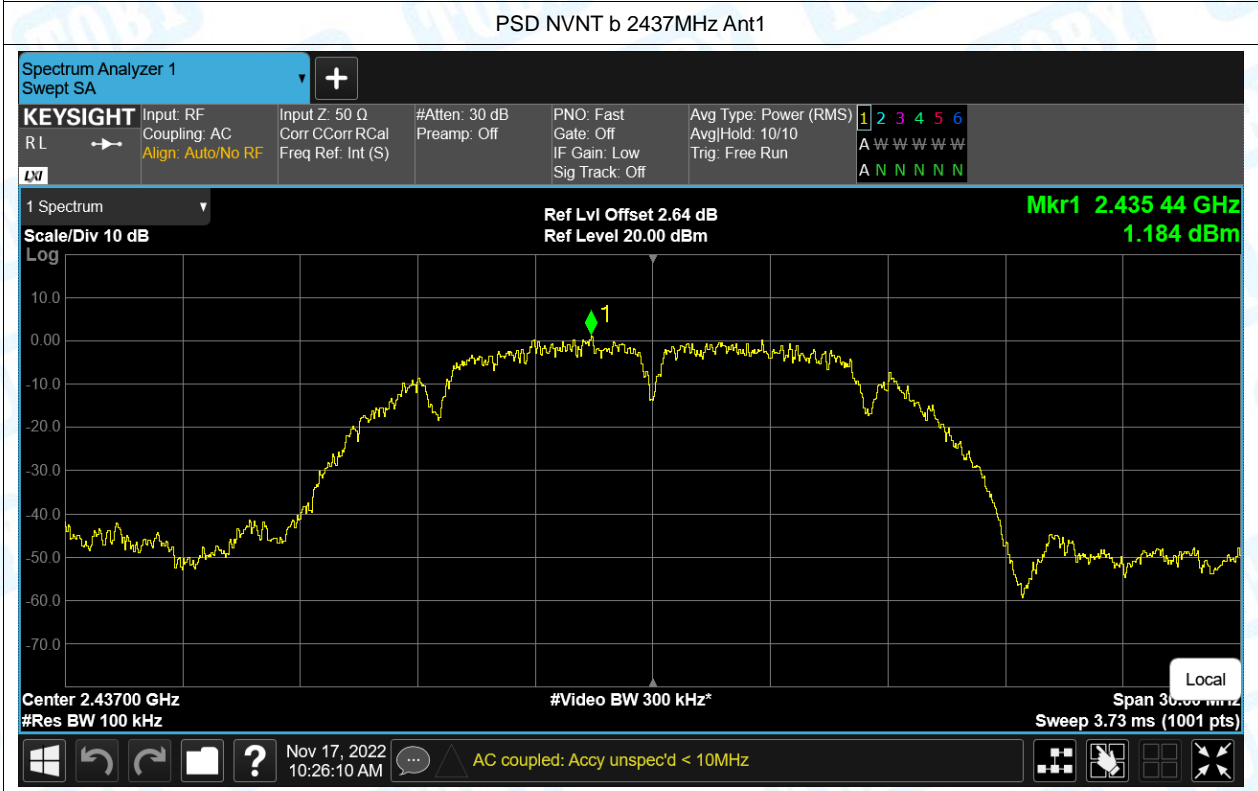
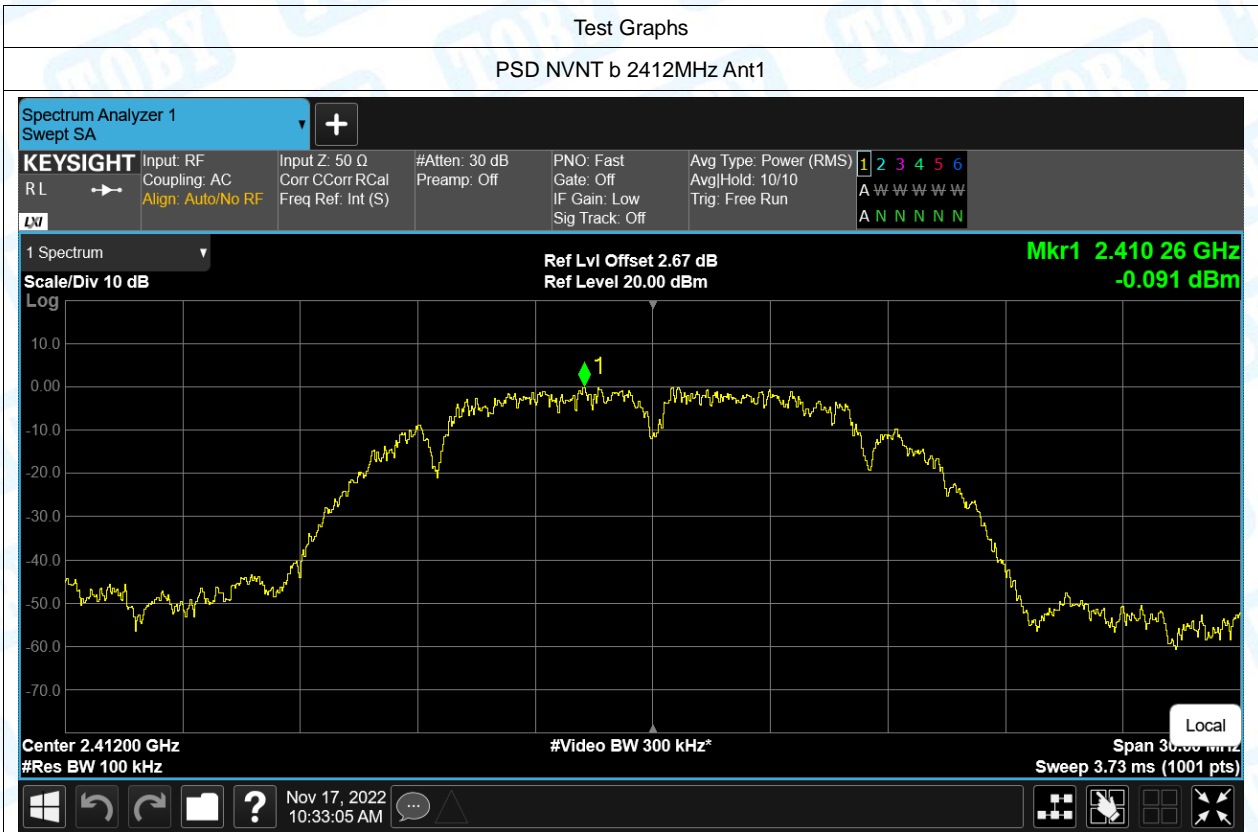


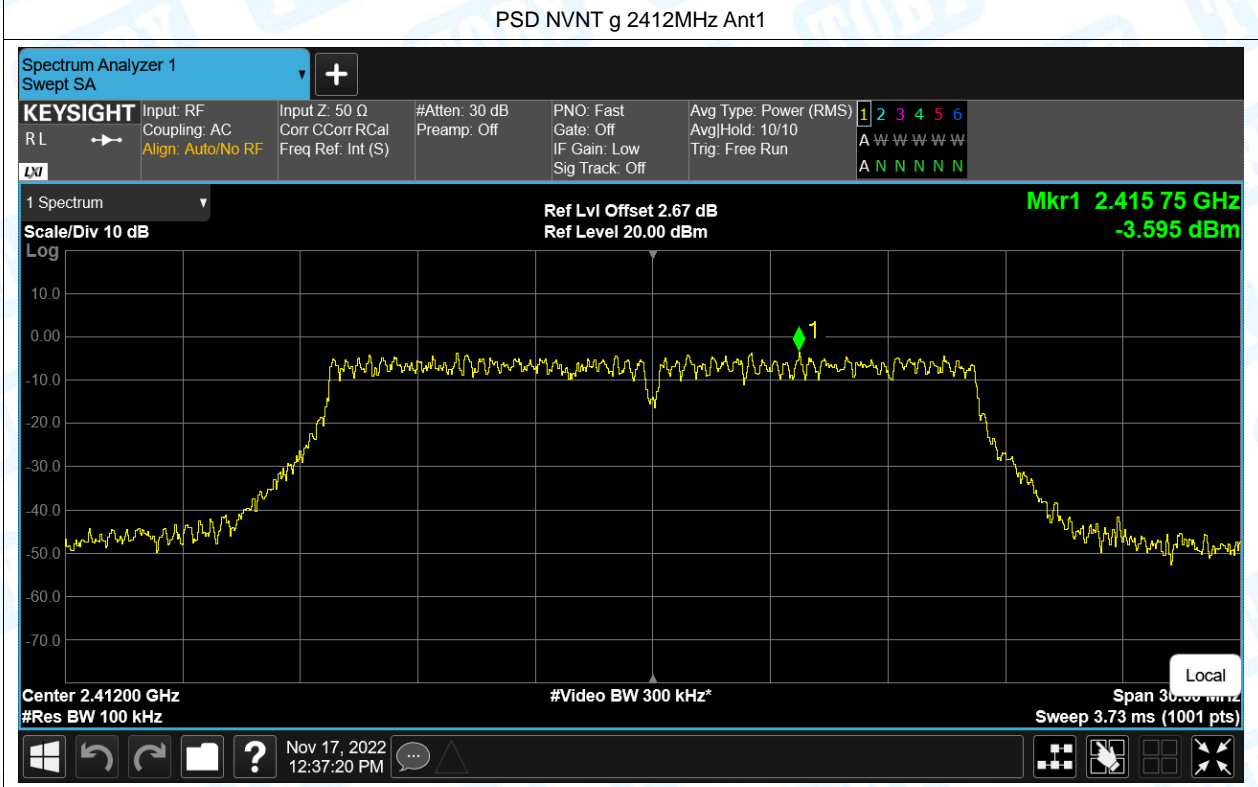
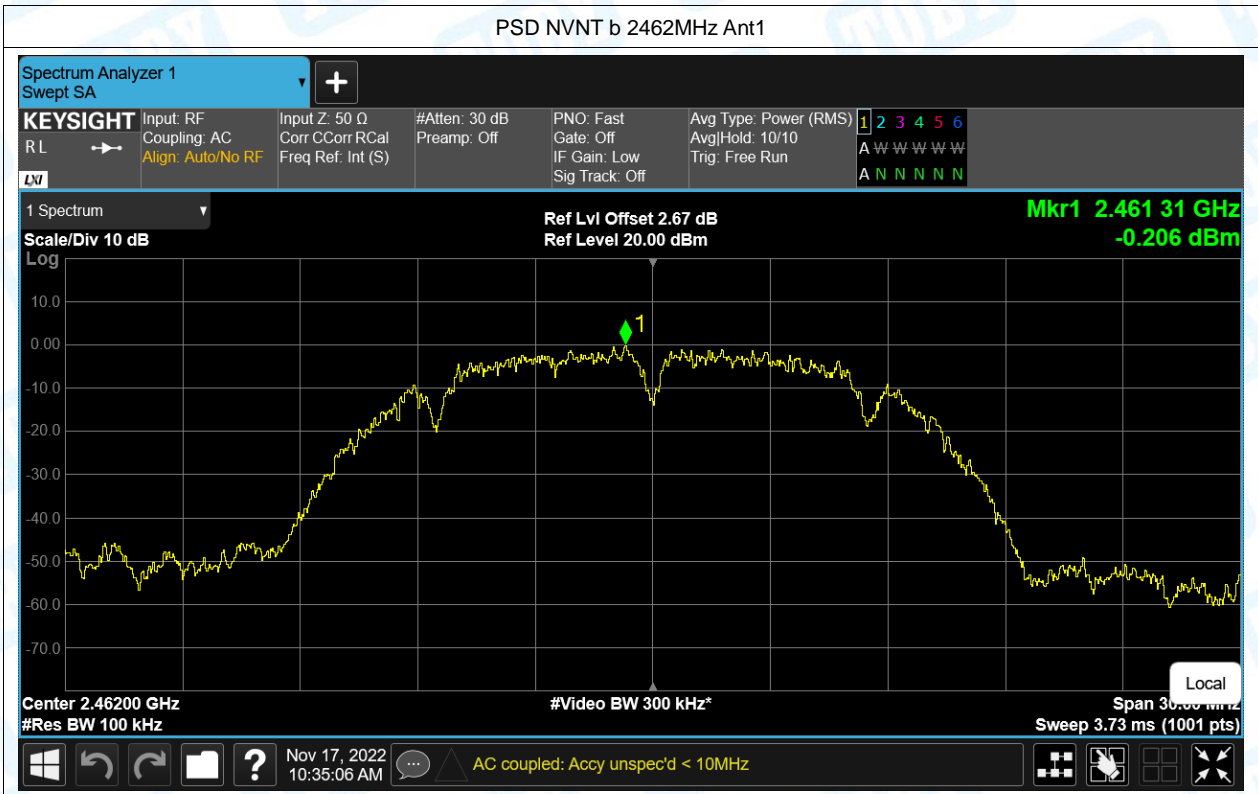


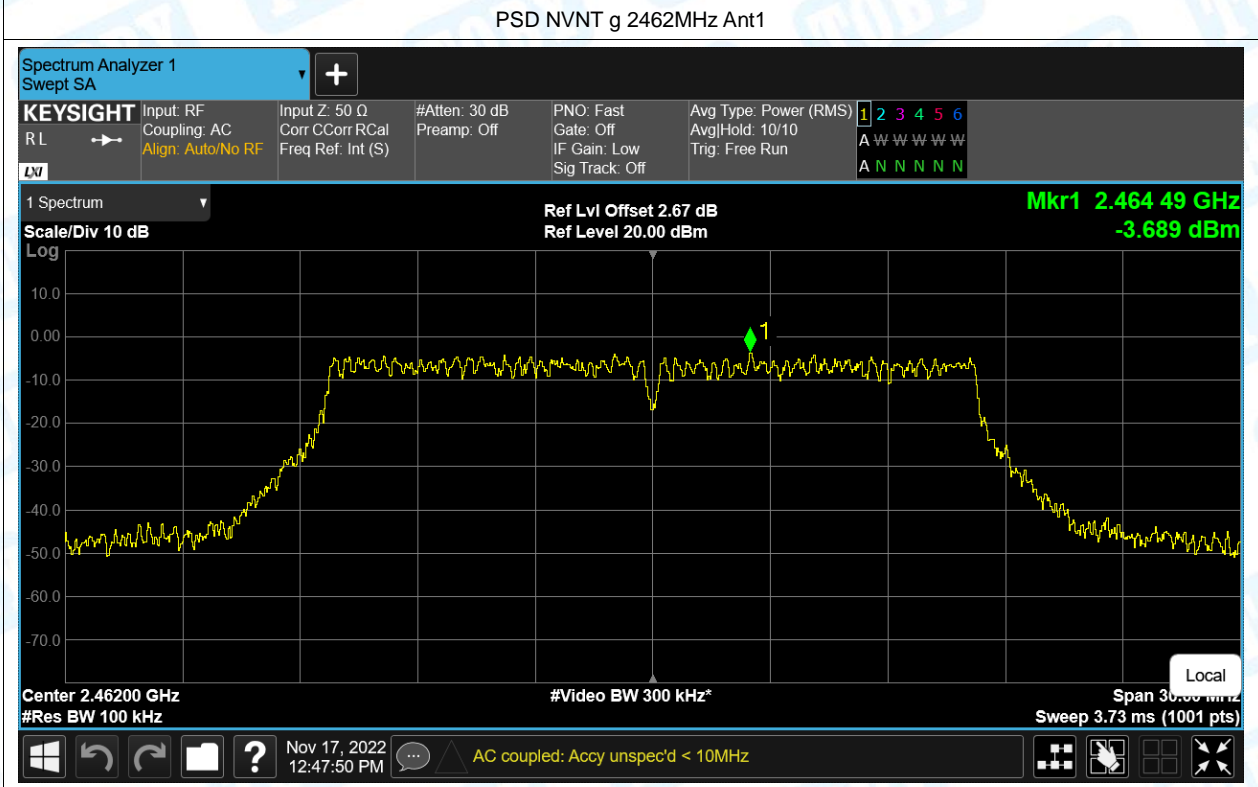
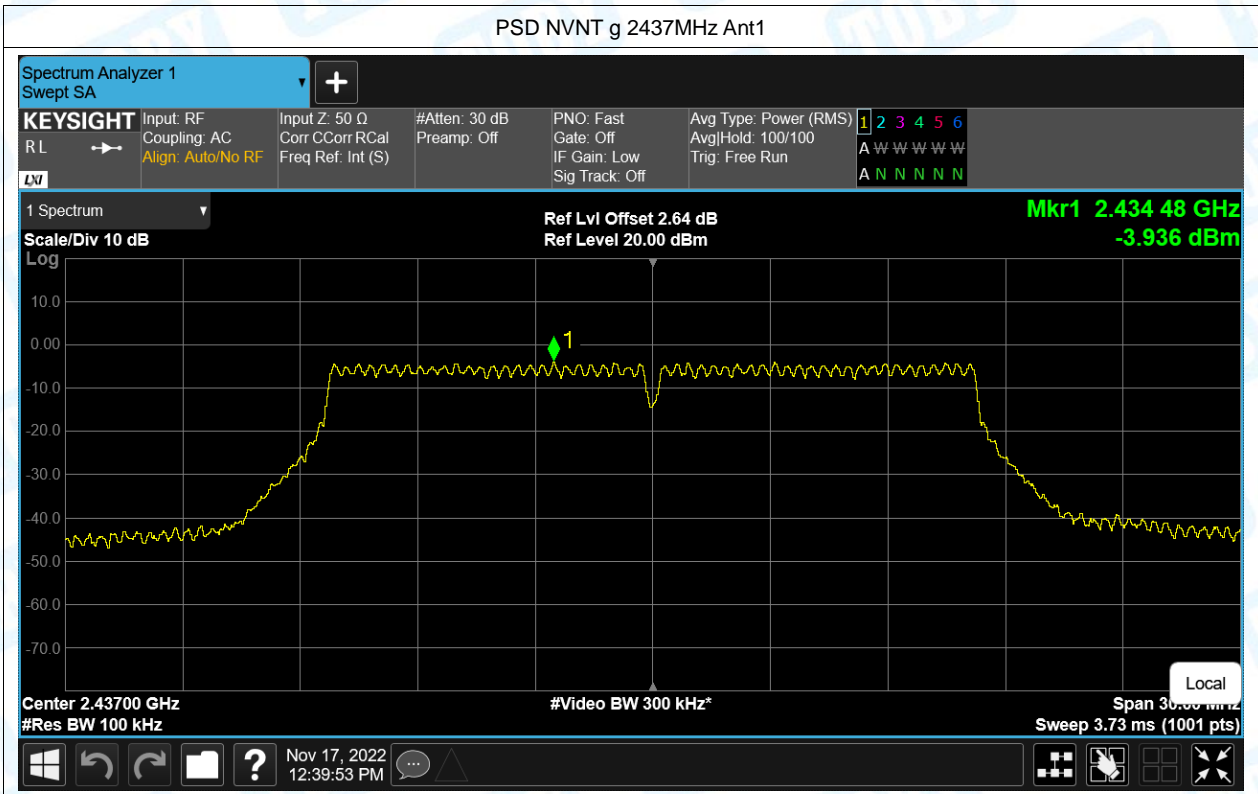


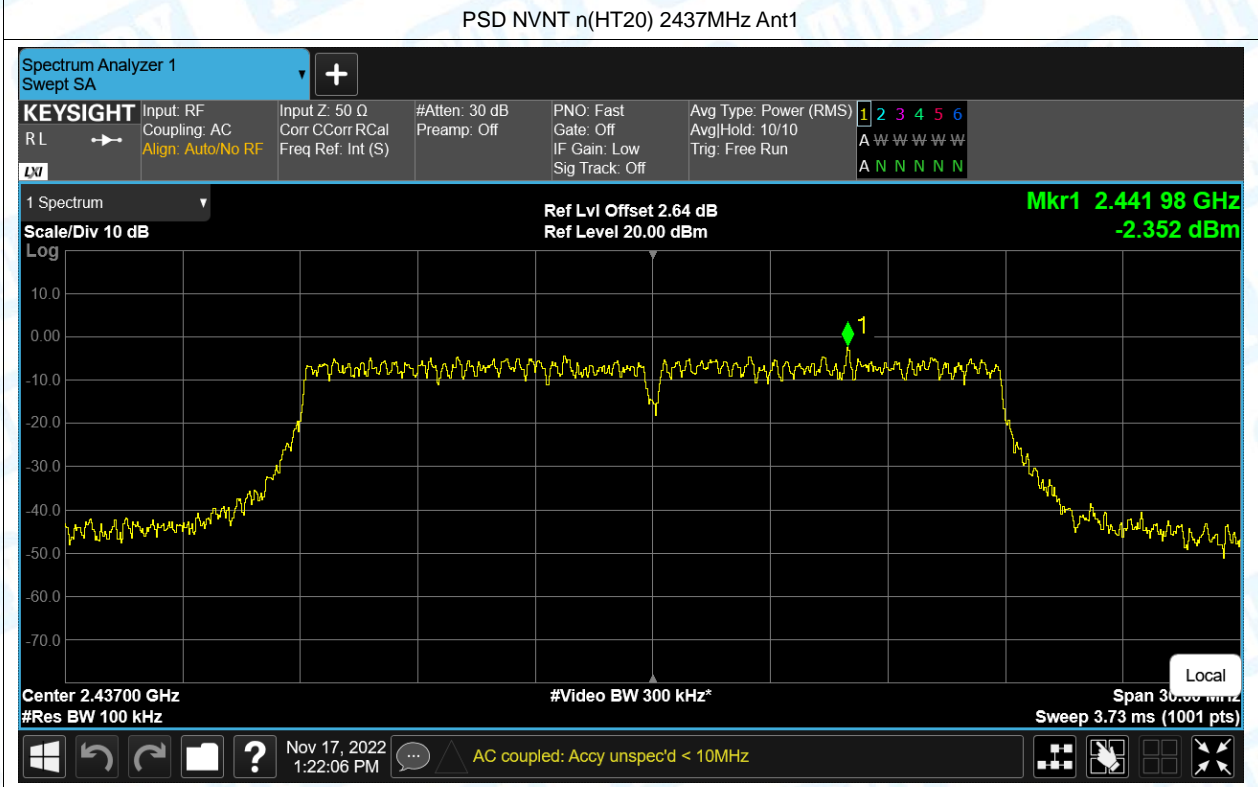
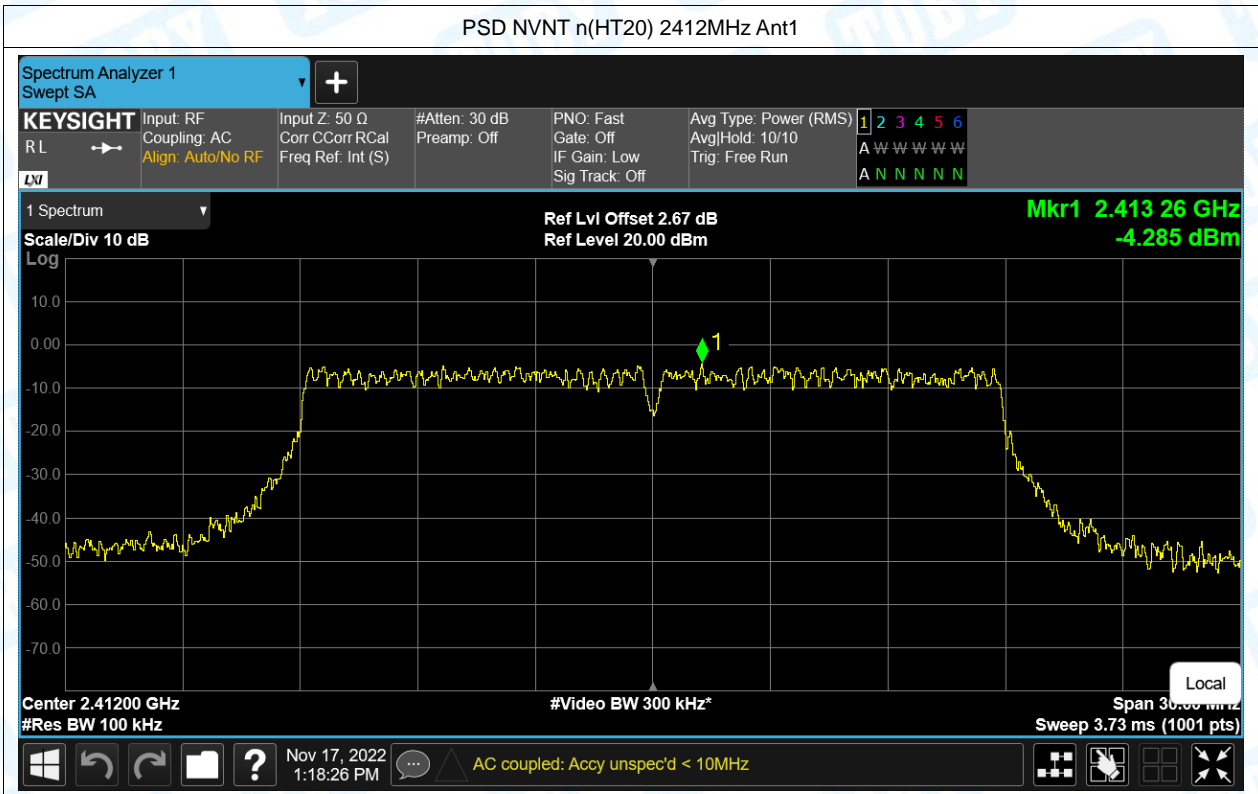
5. Maximum Power Spectral Density Level

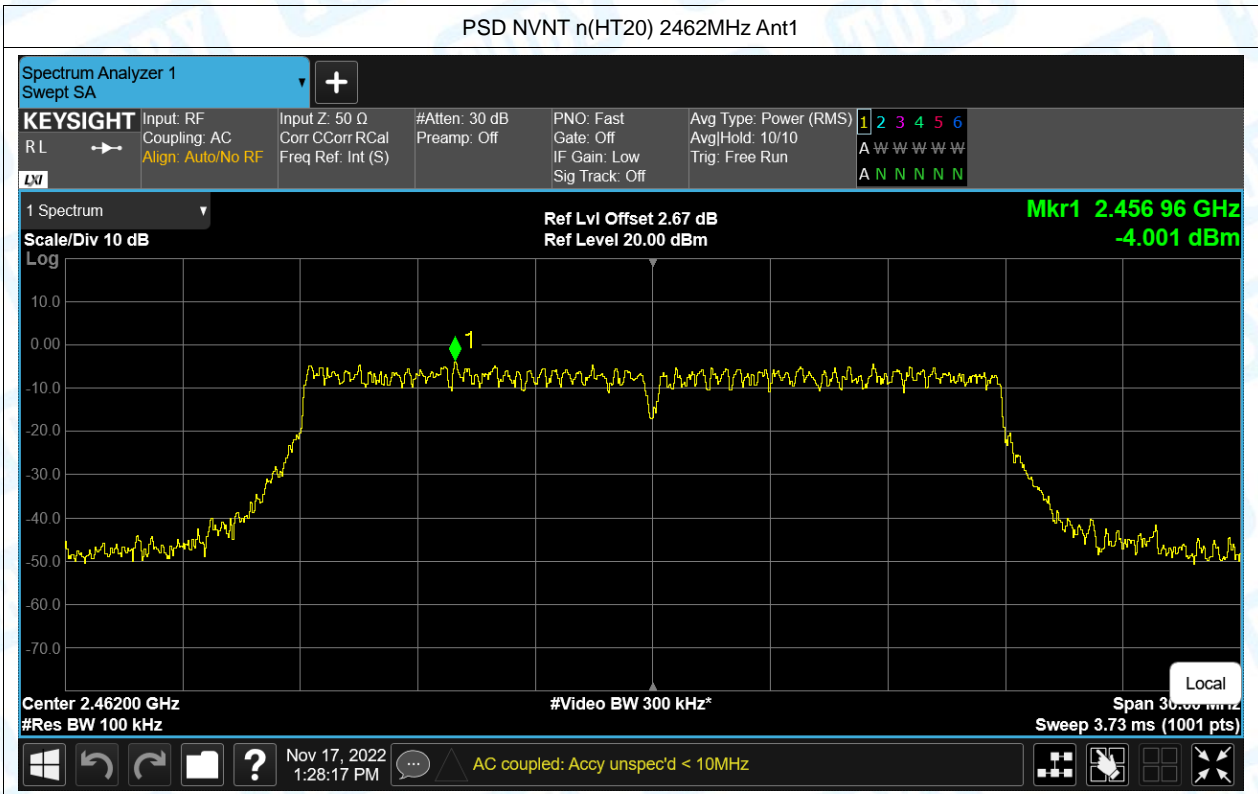
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-0.091	8	Pass
NVNT	b	2437	Ant1	1.184	8	Pass
NVNT	b	2462	Ant1	-0.206	8	Pass
NVNT	g	2412	Ant1	-3.595	8	Pass
NVNT	g	2437	Ant1	-3.936	8	Pass
NVNT	g	2462	Ant1	-3.689	8	Pass
NVNT	n(HT20)	2412	Ant1	-4.285	8	Pass
NVNT	n(HT20)	2437	Ant1	-2.352	8	Pass
NVNT	n(HT20)	2462	Ant1	-4.001	8	Pass





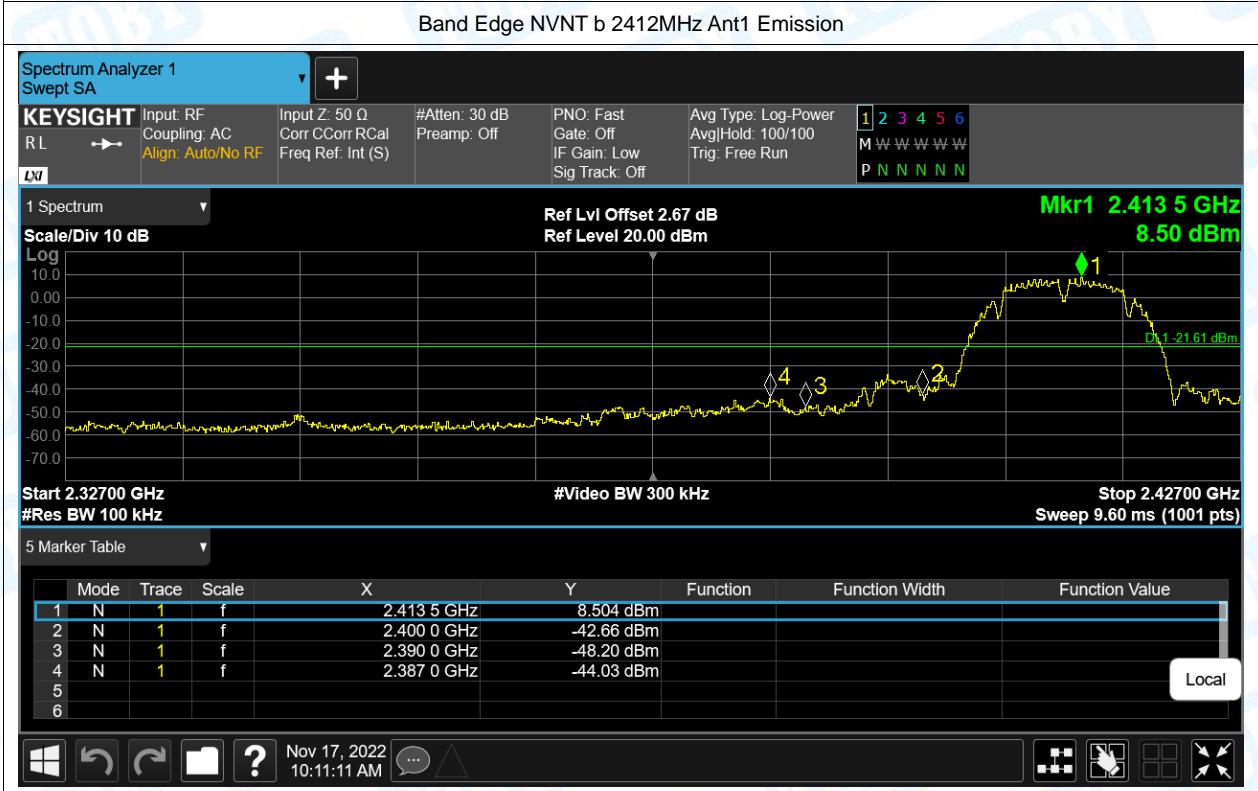
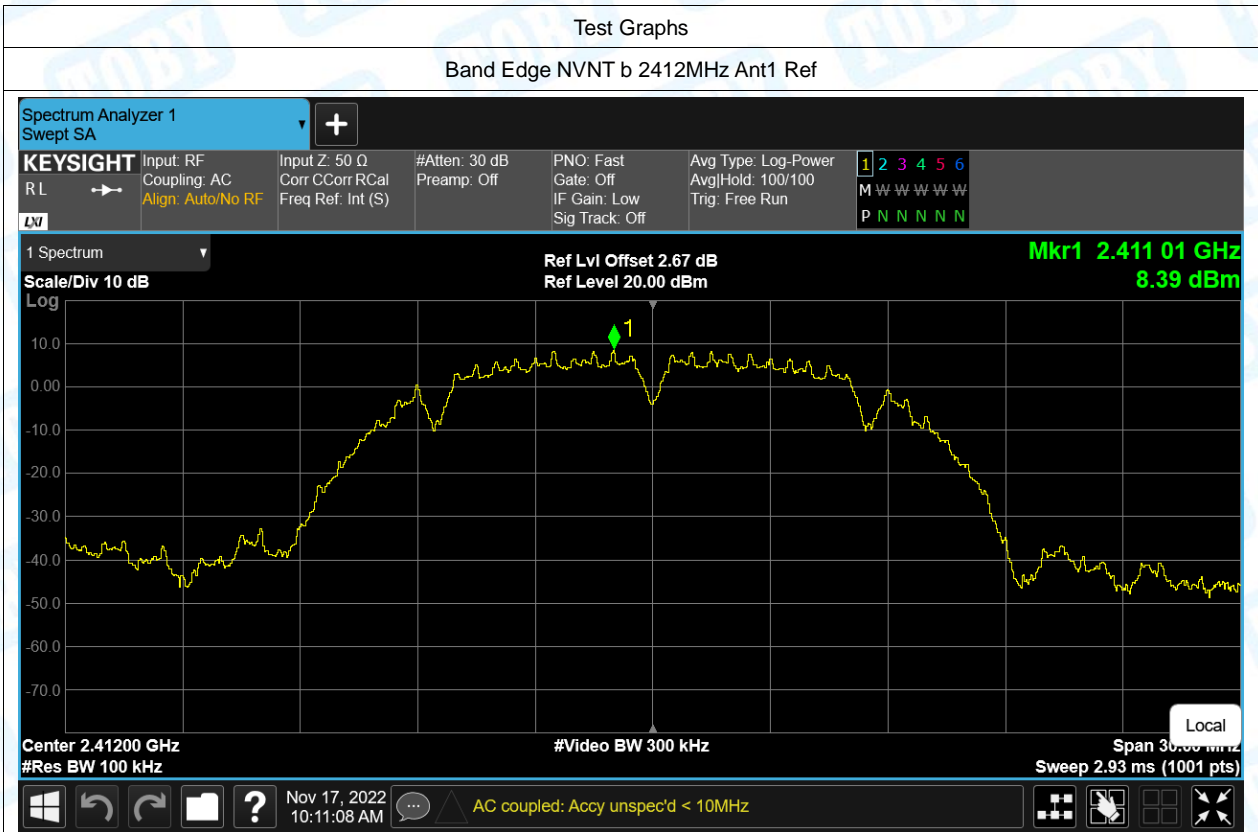


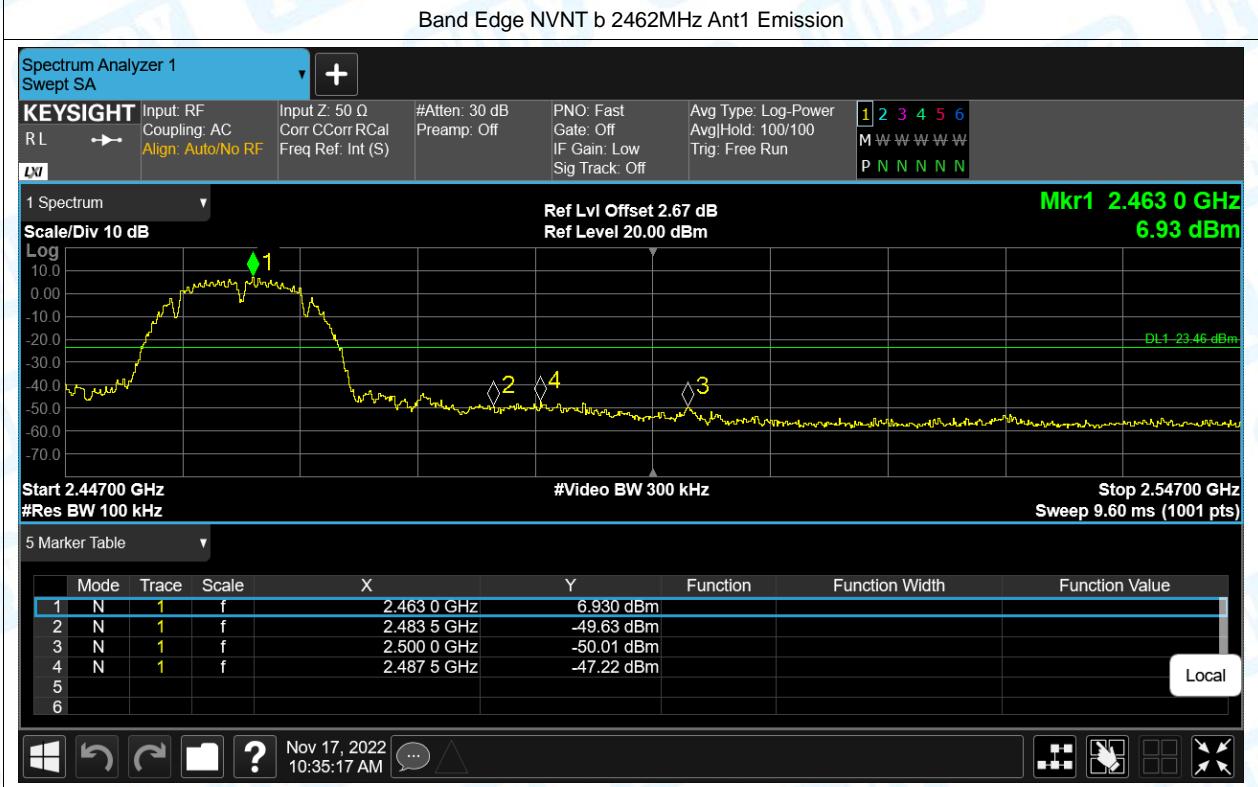
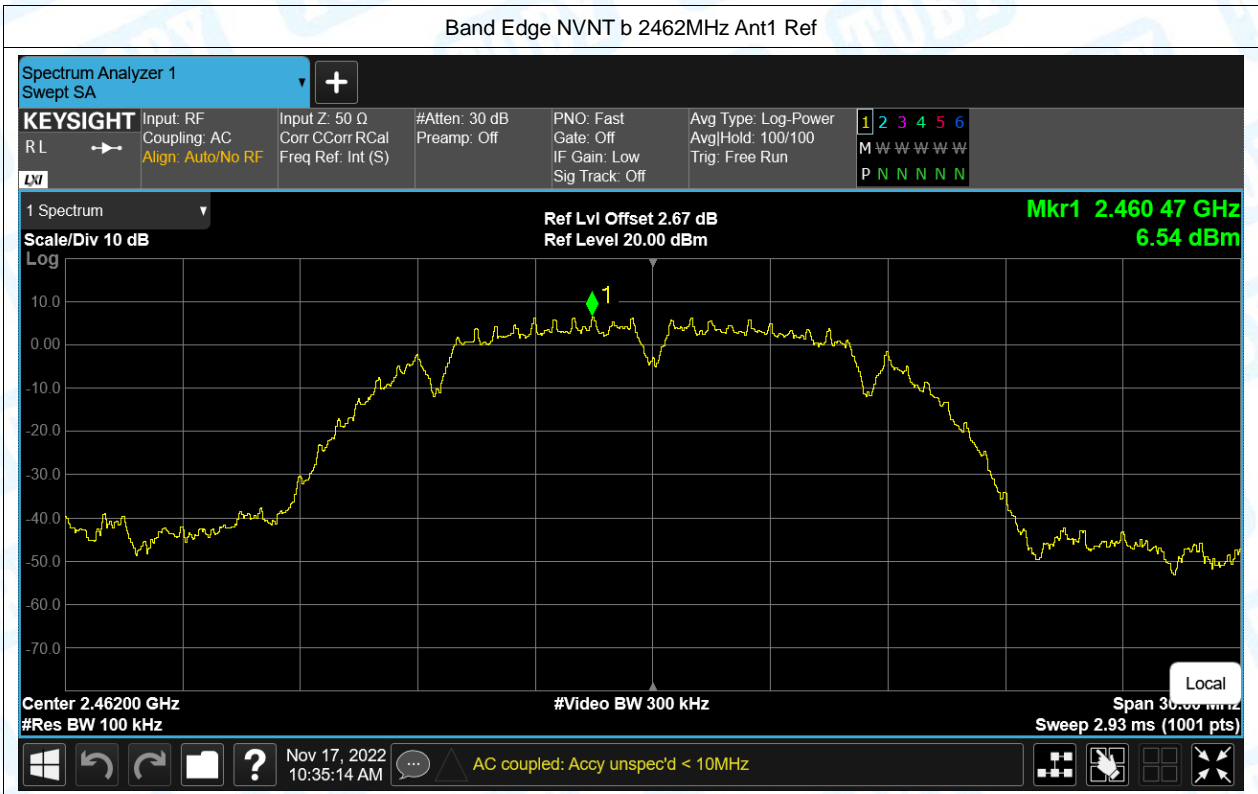


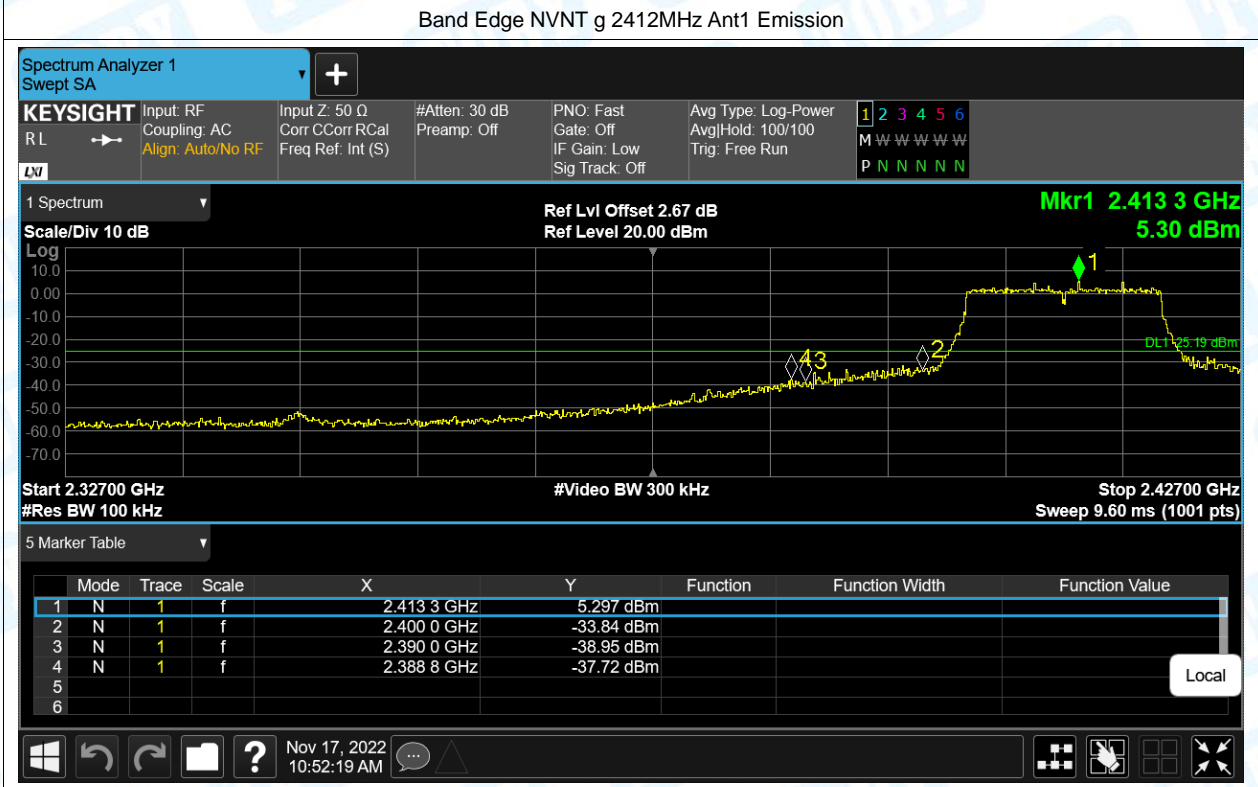


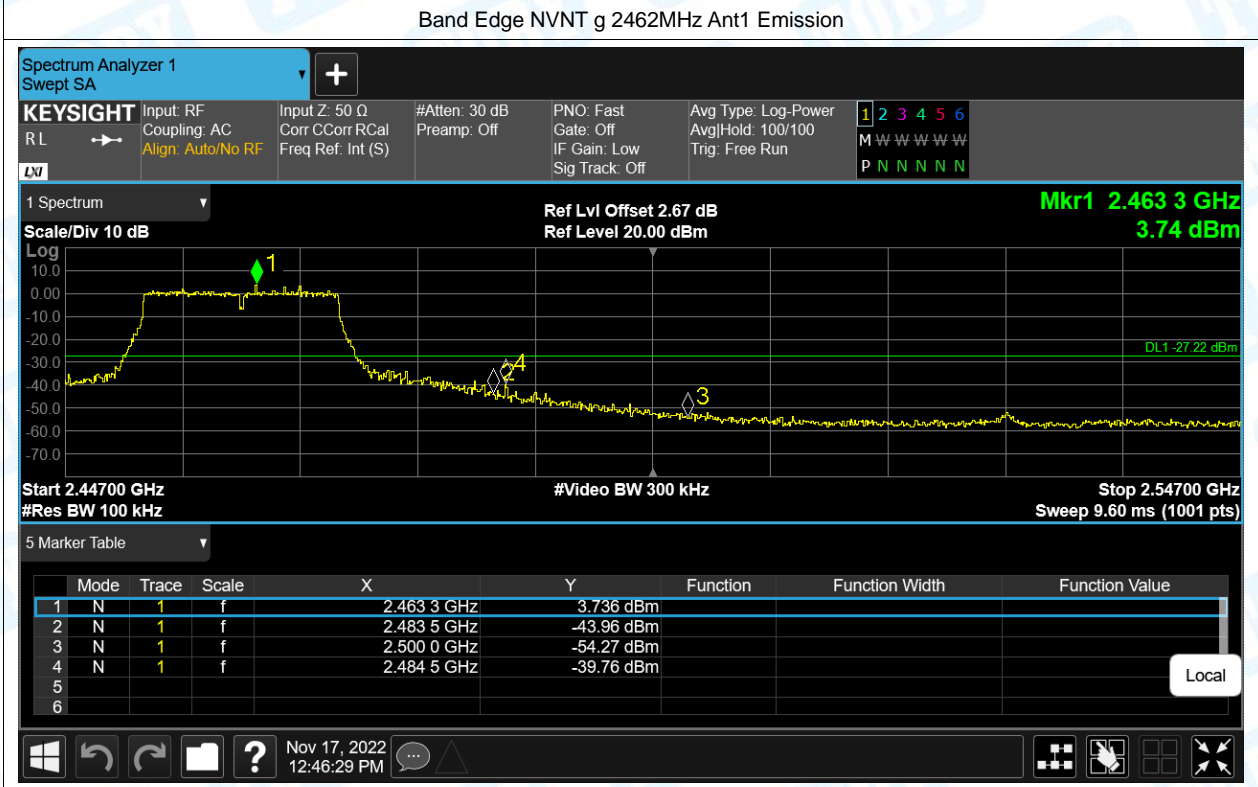
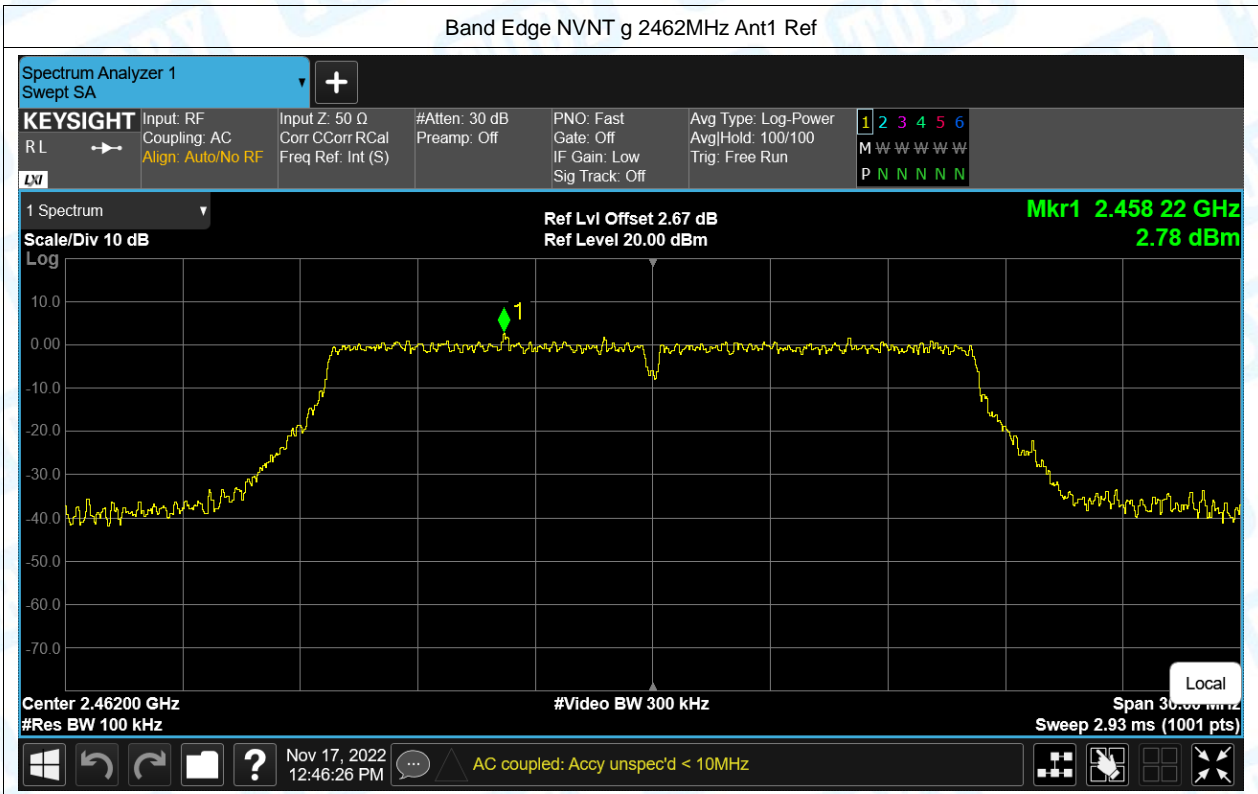
6. Band Edge

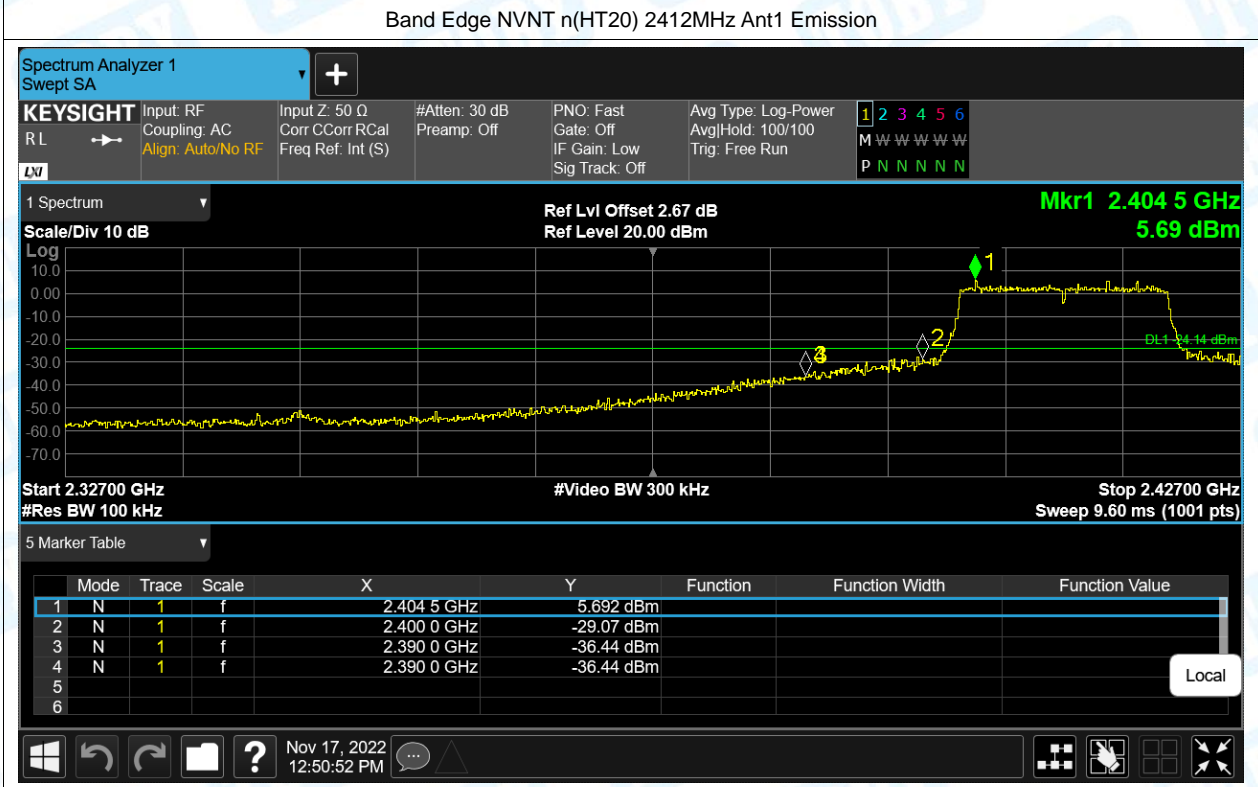
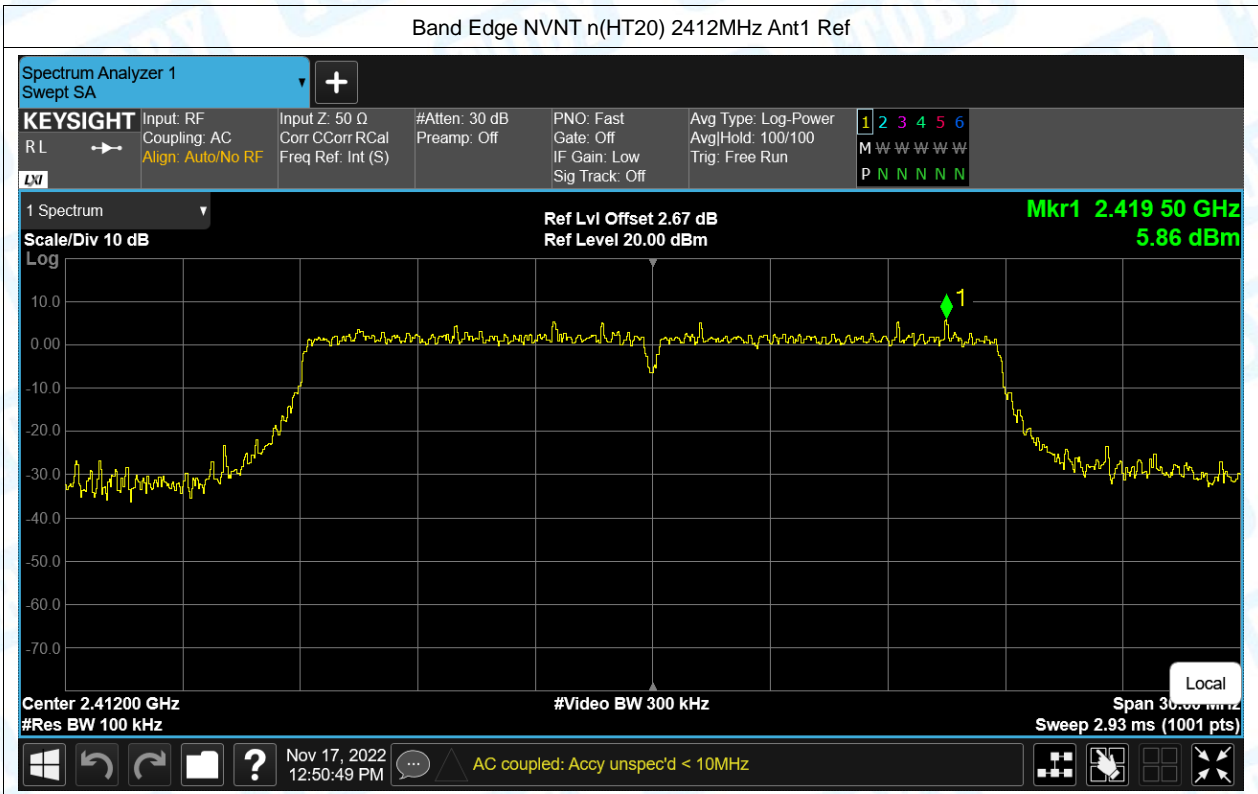
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-52.42	-30	Pass
NVNT	b	2462	Ant1	-53.76	-30	Pass
NVNT	g	2412	Ant1	-42.53	-30	Pass
NVNT	g	2462	Ant1	-42.54	-30	Pass
NVNT	n(HT20)	2412	Ant1	-42.3	-30	Pass
NVNT	n(HT20)	2462	Ant1	-41.2	-30	Pass

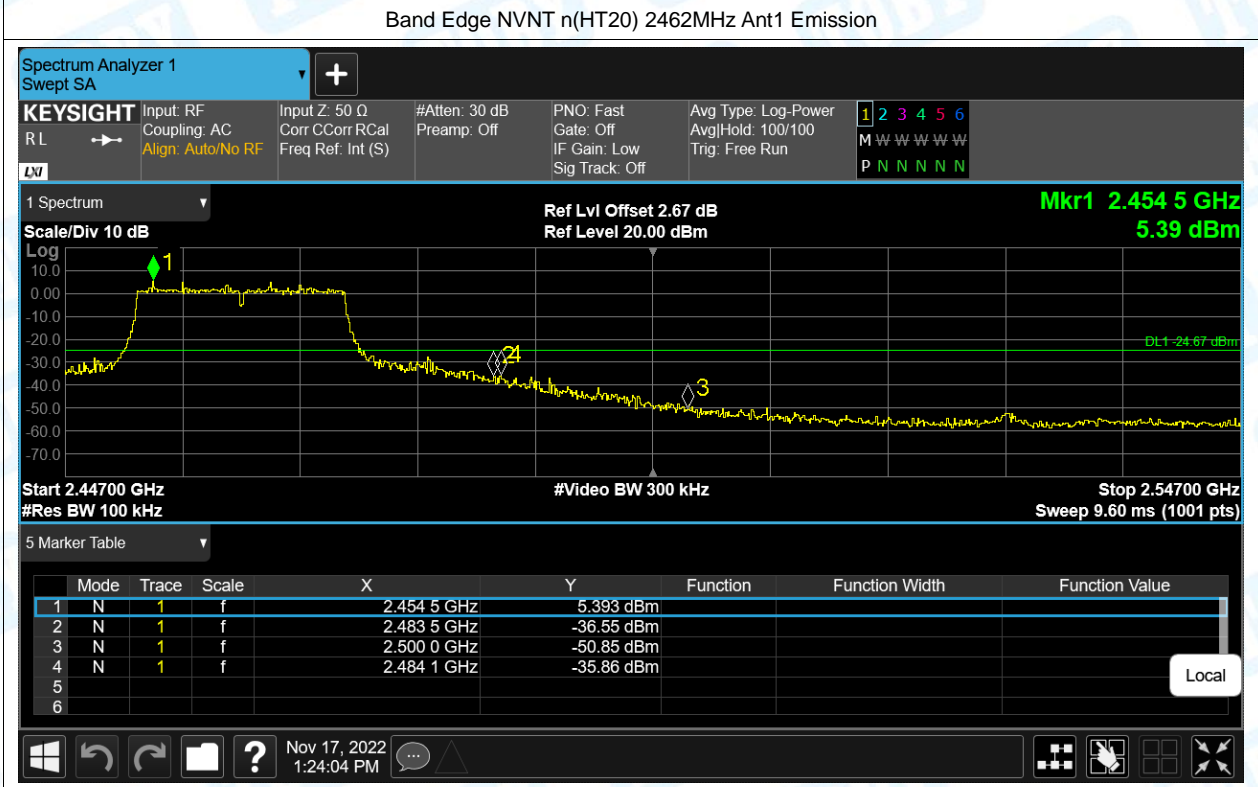
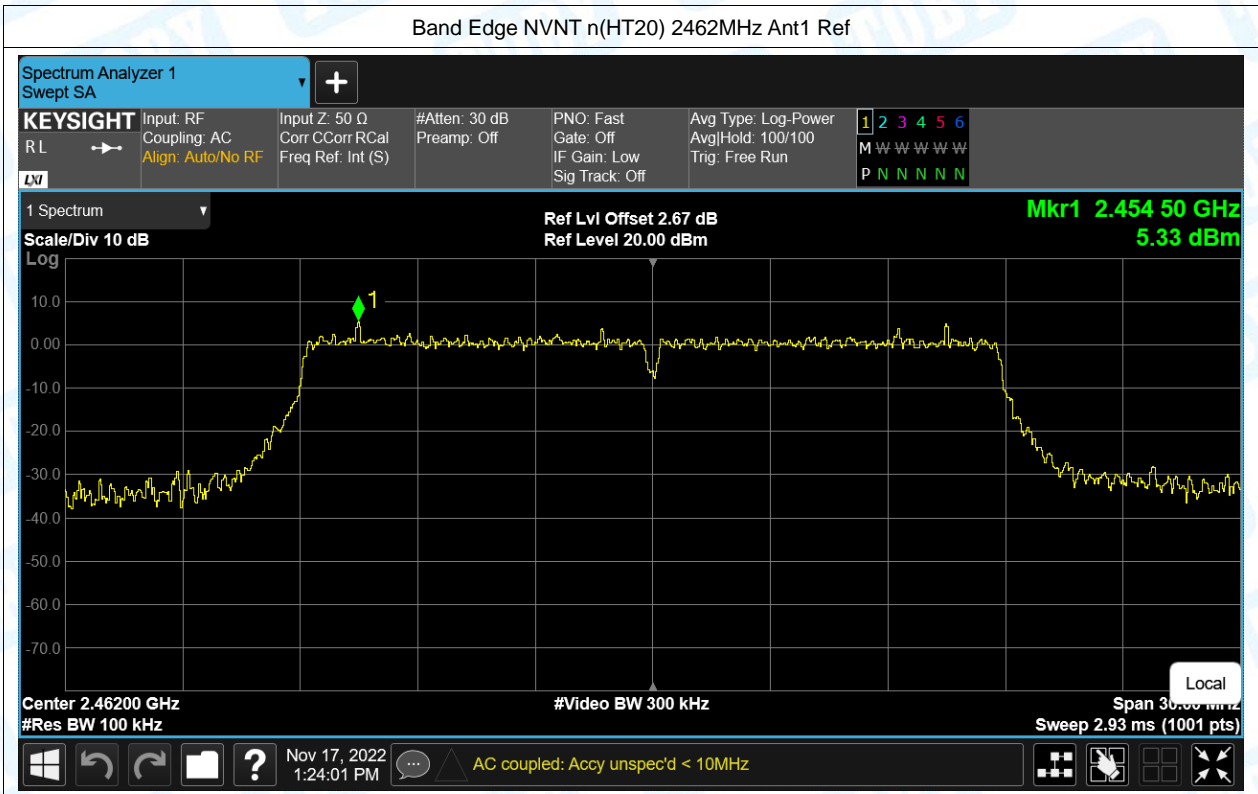






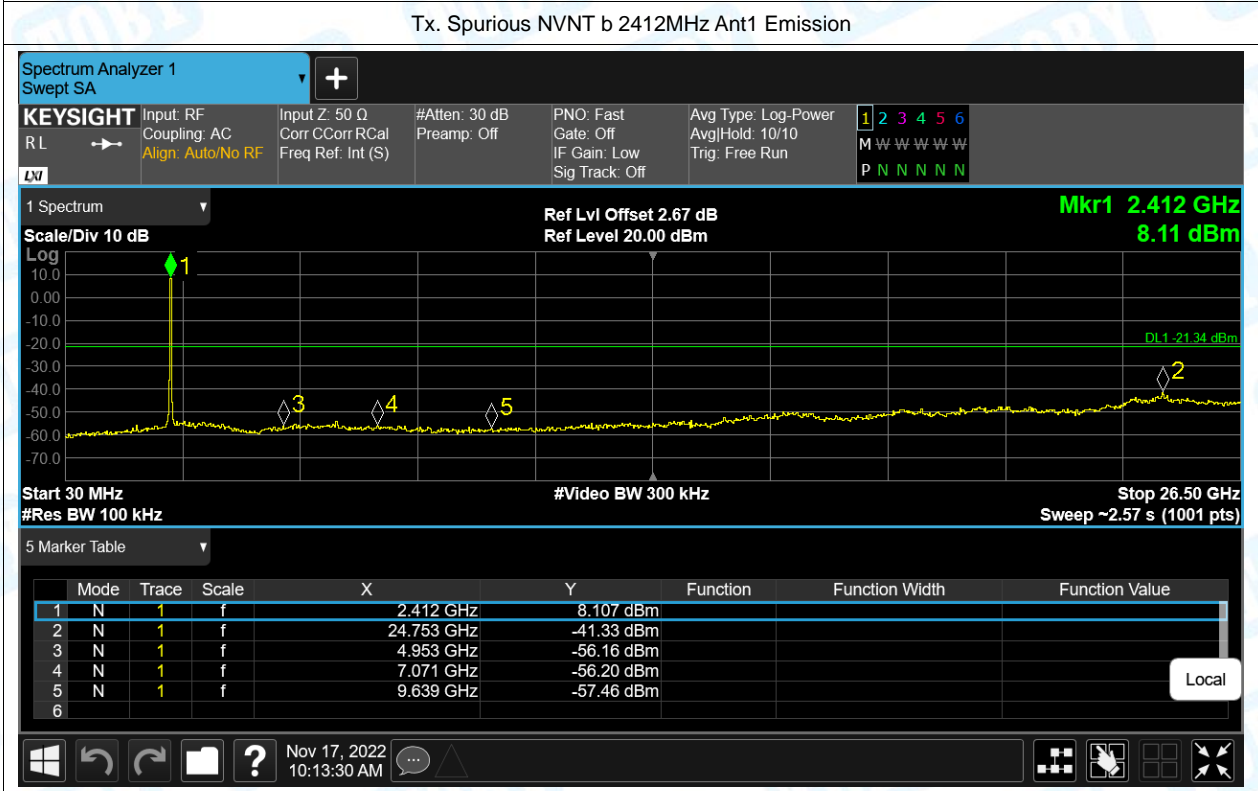
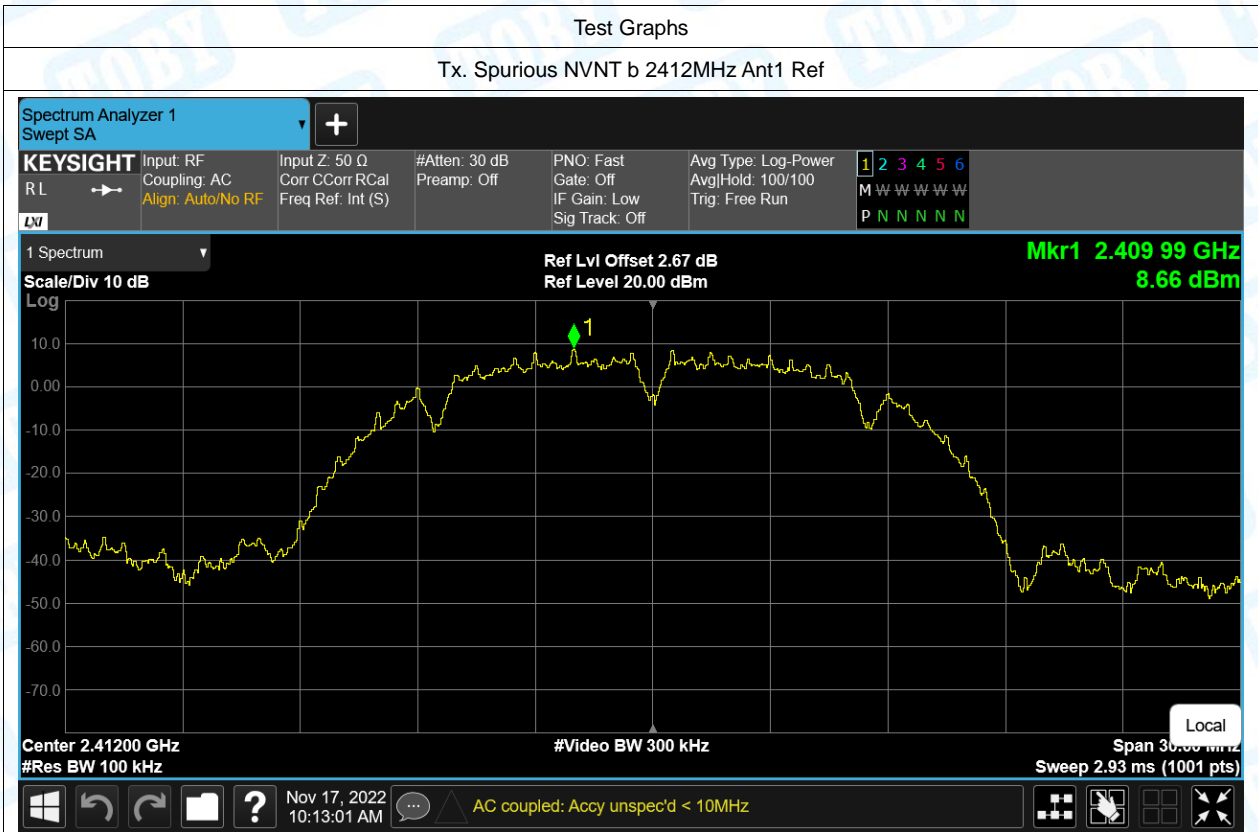


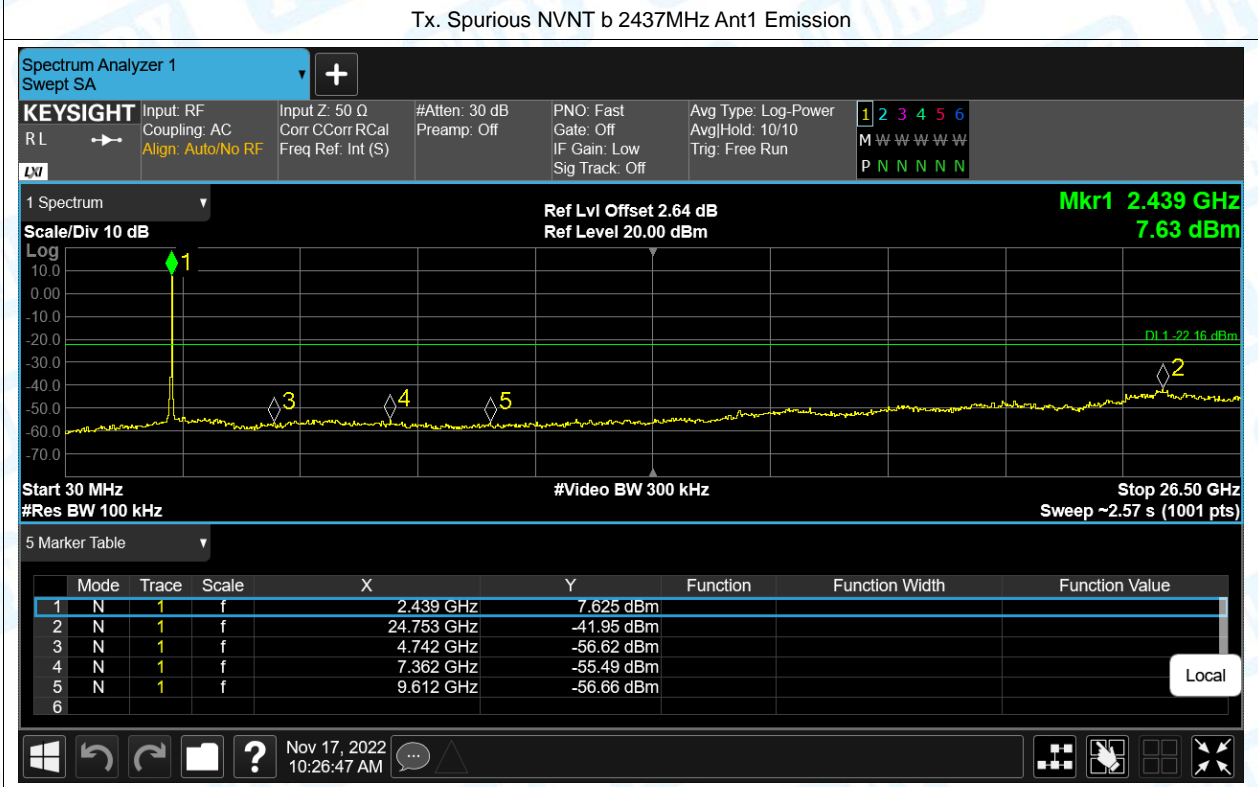
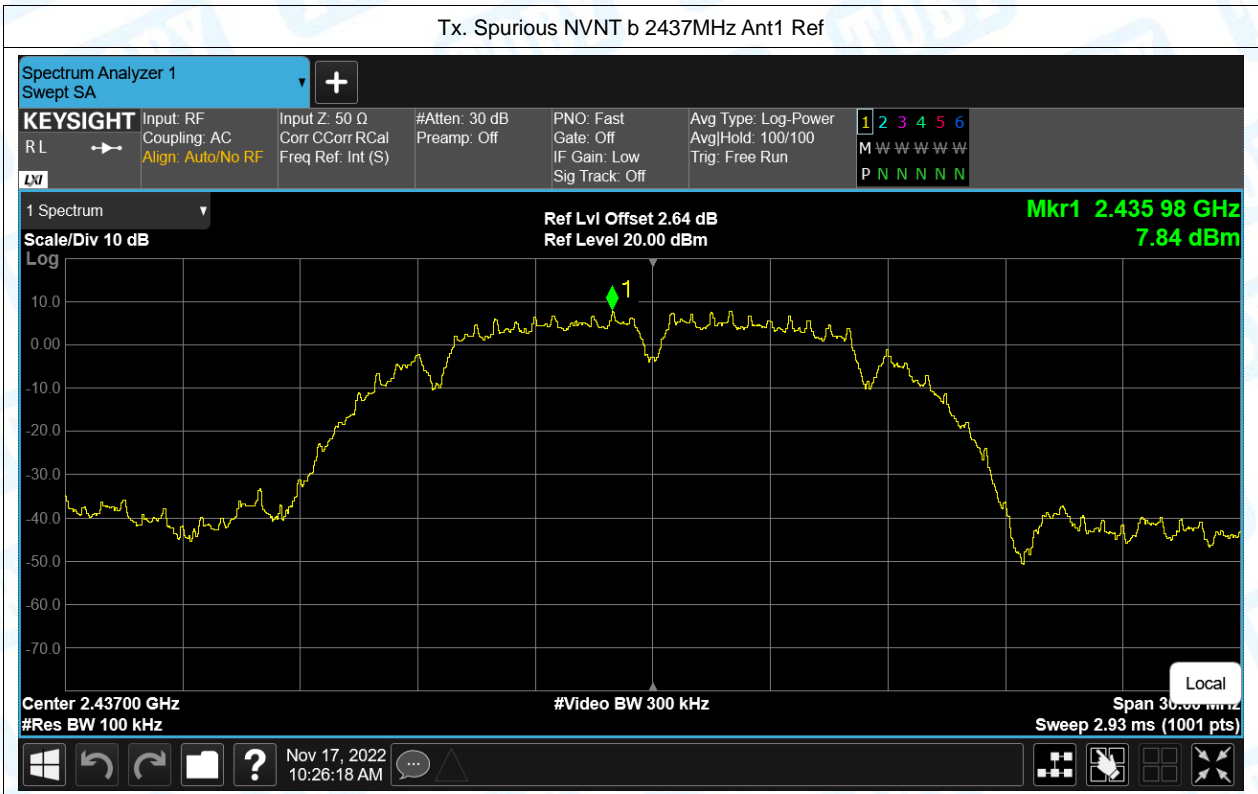


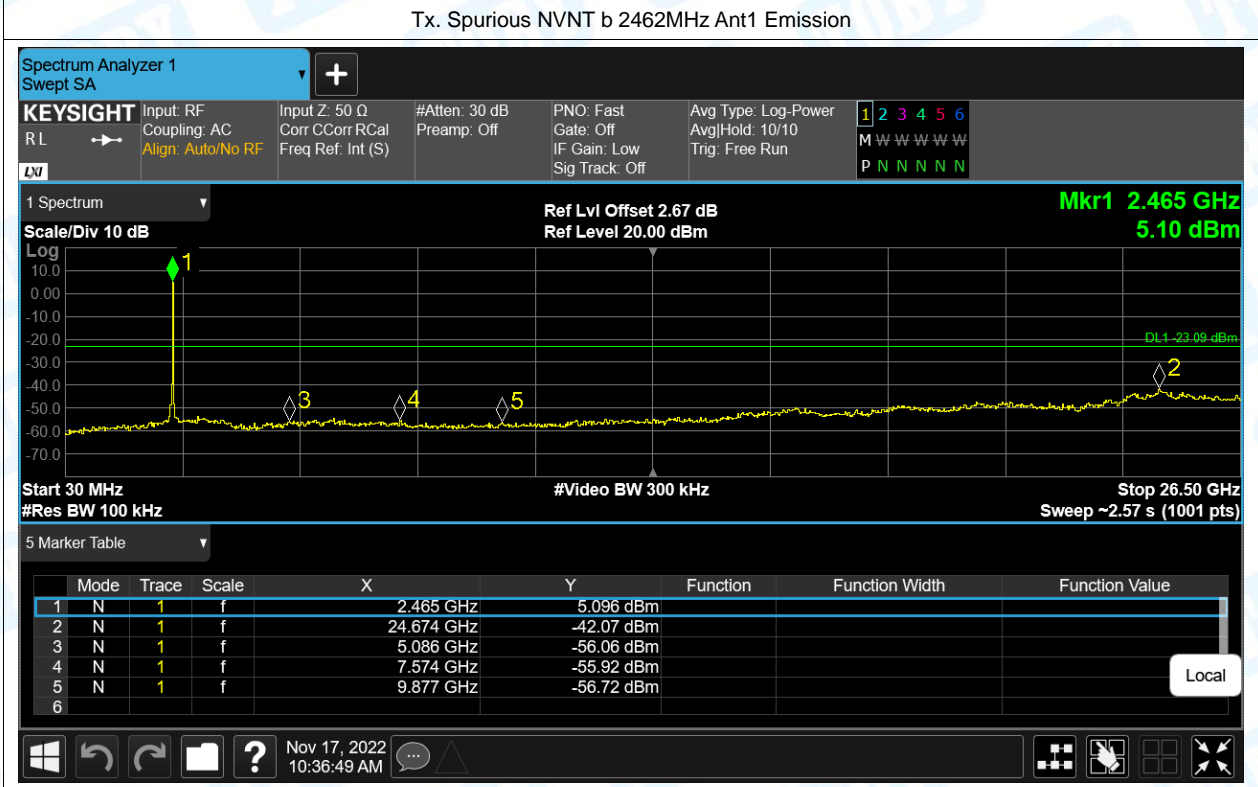
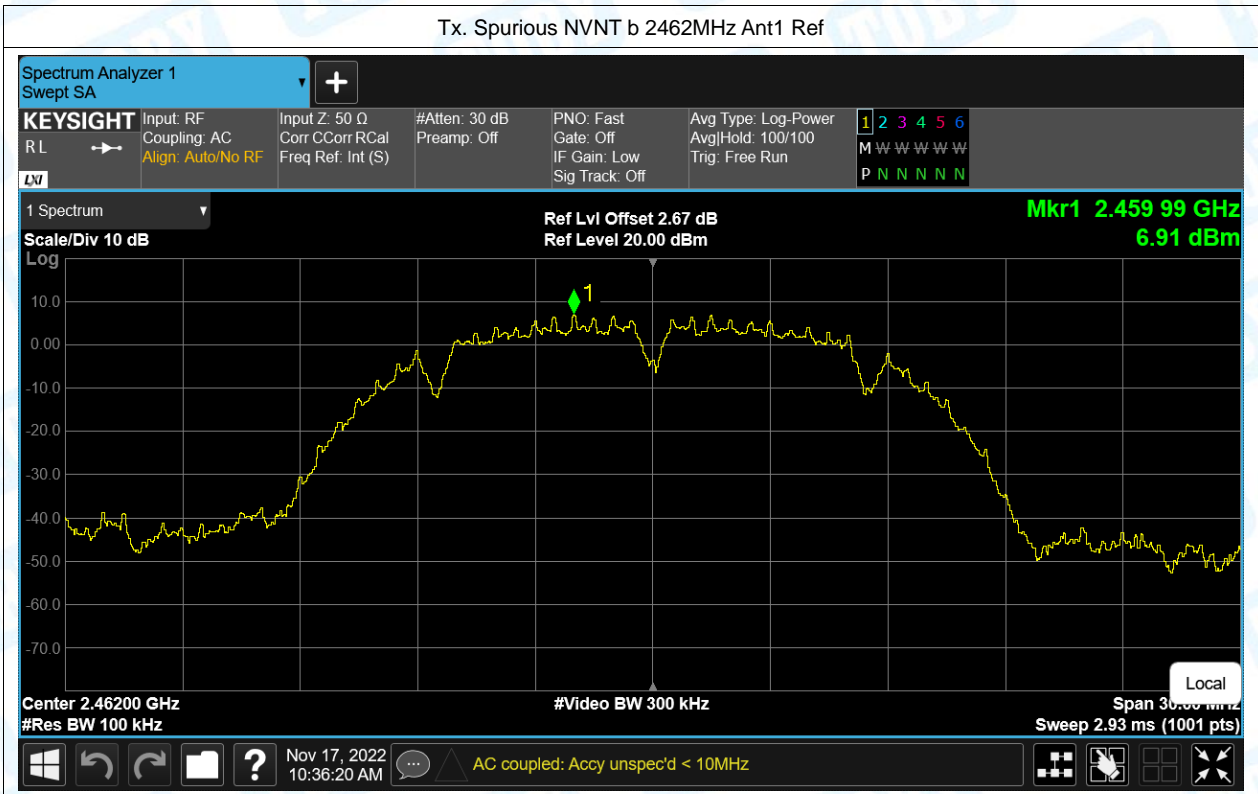


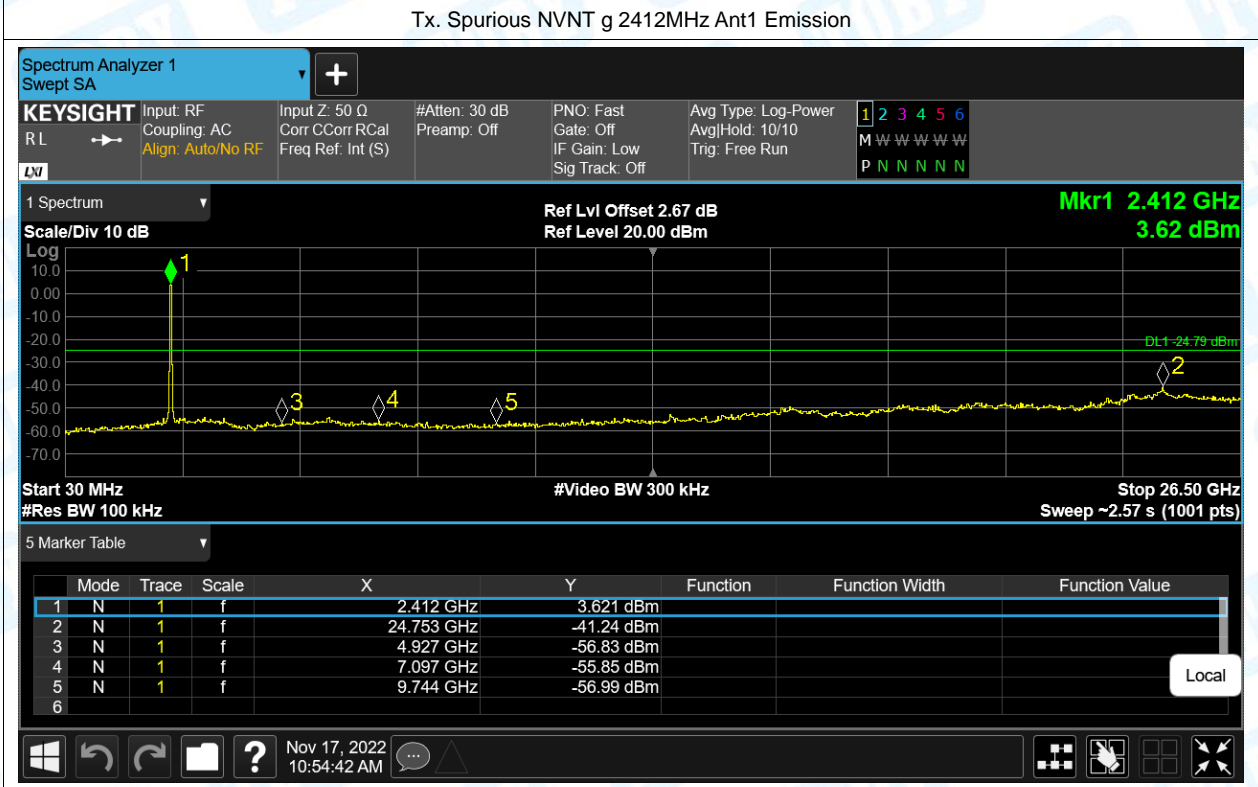
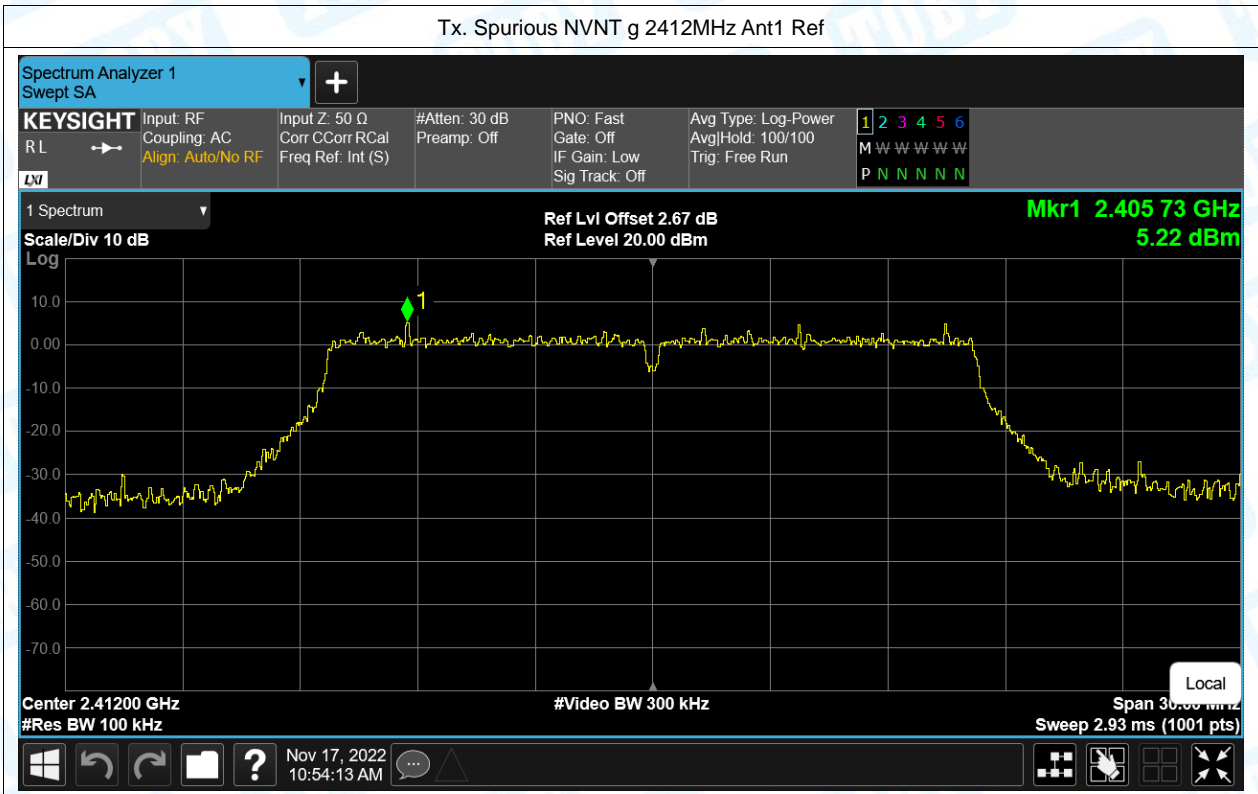
7. Conducted RF Spurious Emission

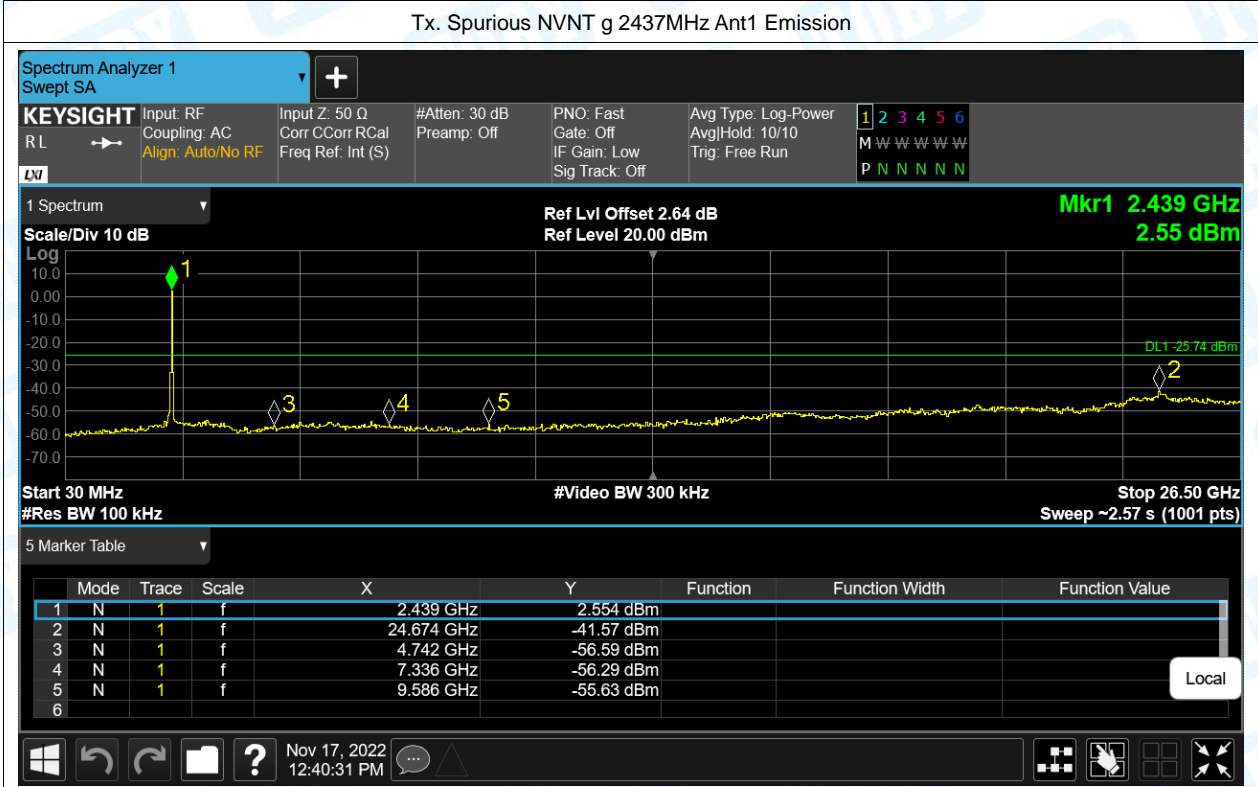
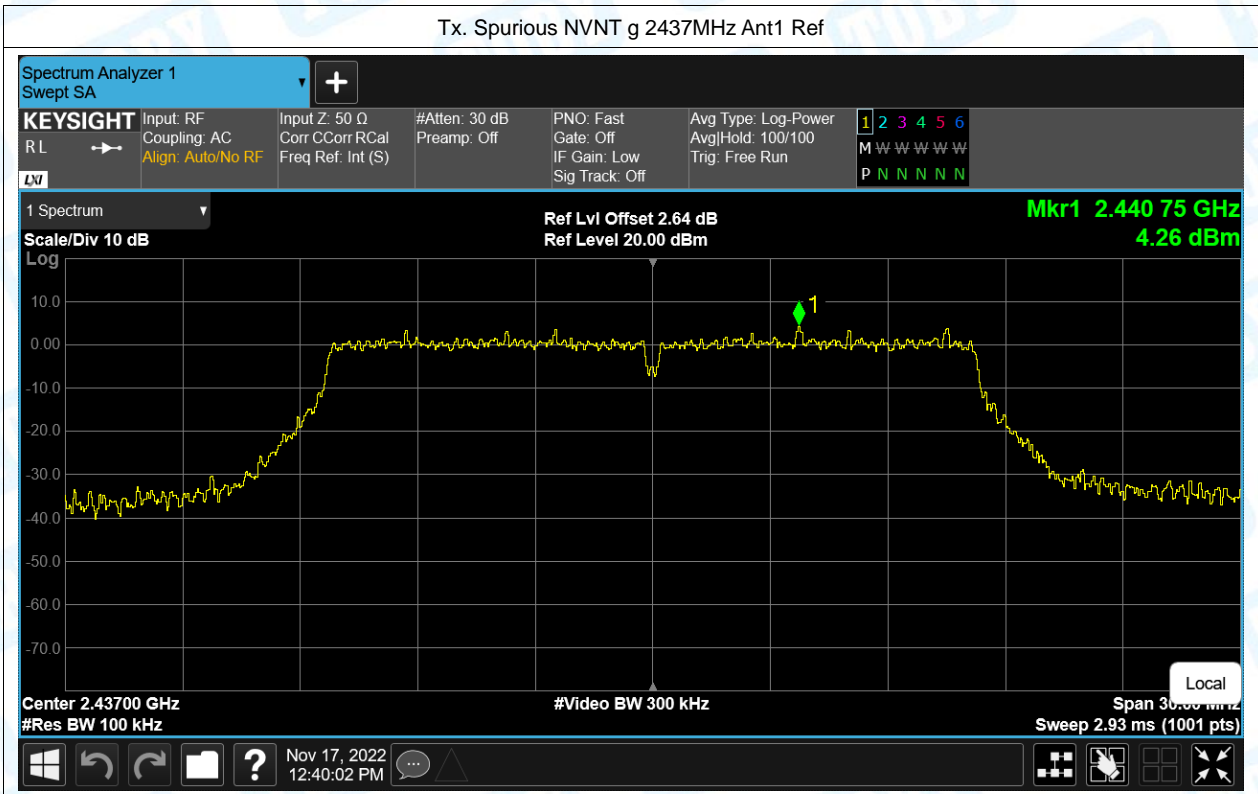
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.99	-30	Pass
NVNT	b	2437	Ant1	-49.79	-30	Pass
NVNT	b	2462	Ant1	-48.98	-30	Pass
NVNT	g	2412	Ant1	-46.46	-30	Pass
NVNT	g	2437	Ant1	-45.83	-30	Pass
NVNT	g	2462	Ant1	-45.92	-30	Pass
NVNT	n(HT20)	2412	Ant1	-46.81	-30	Pass
NVNT	n(HT20)	2437	Ant1	-44.58	-30	Pass
NVNT	n(HT20)	2462	Ant1	-46.6	-30	Pass

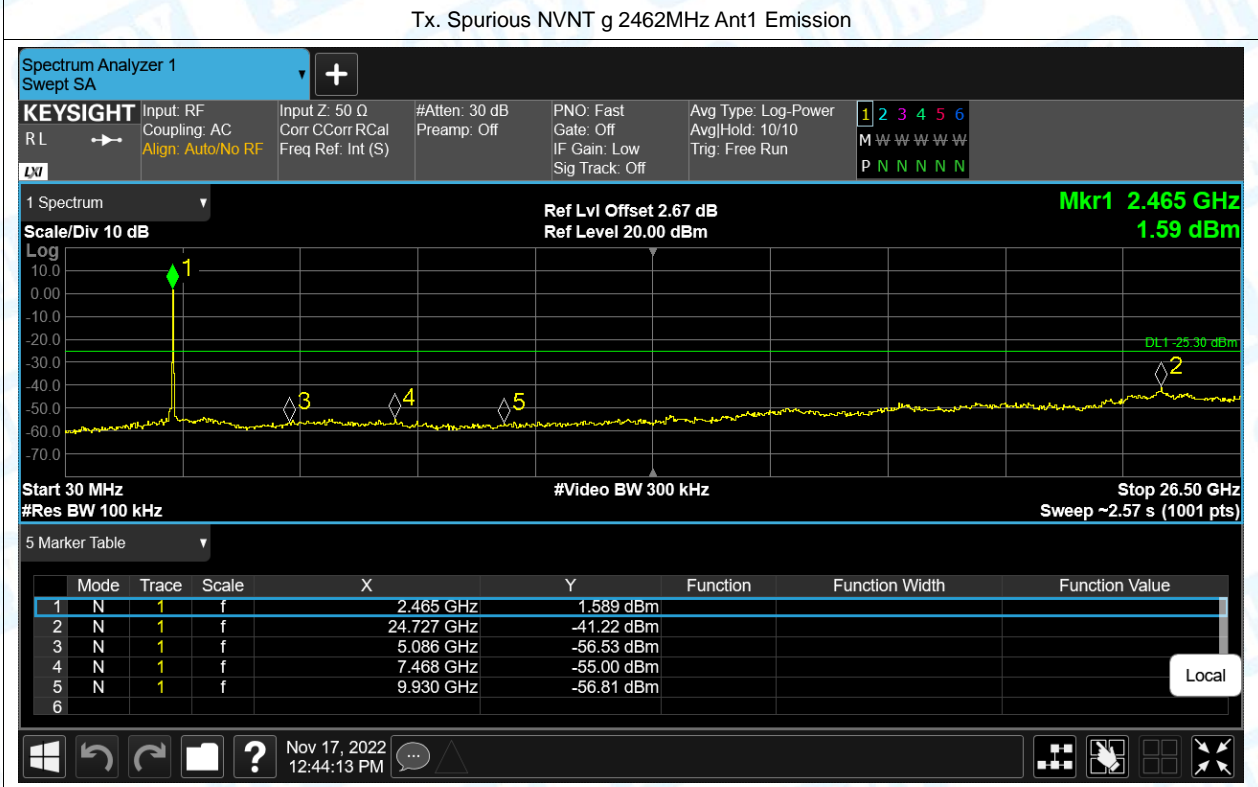
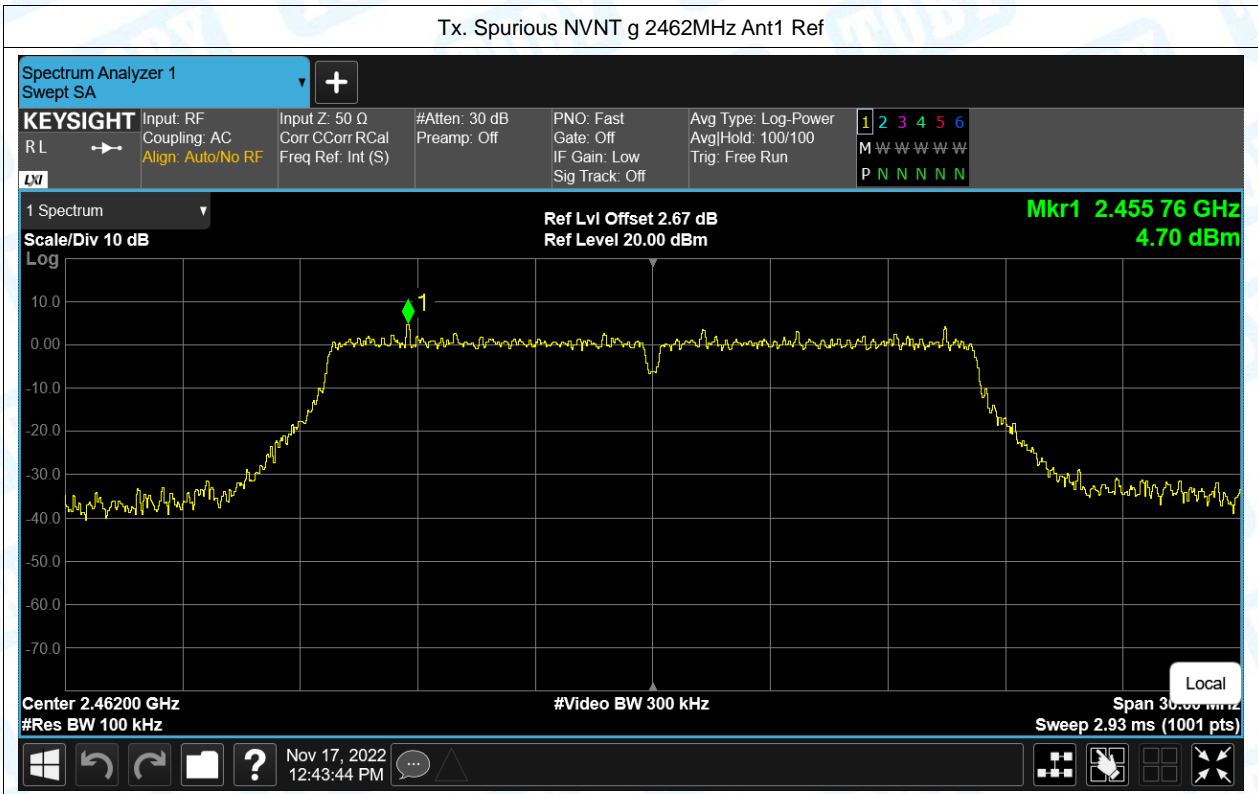


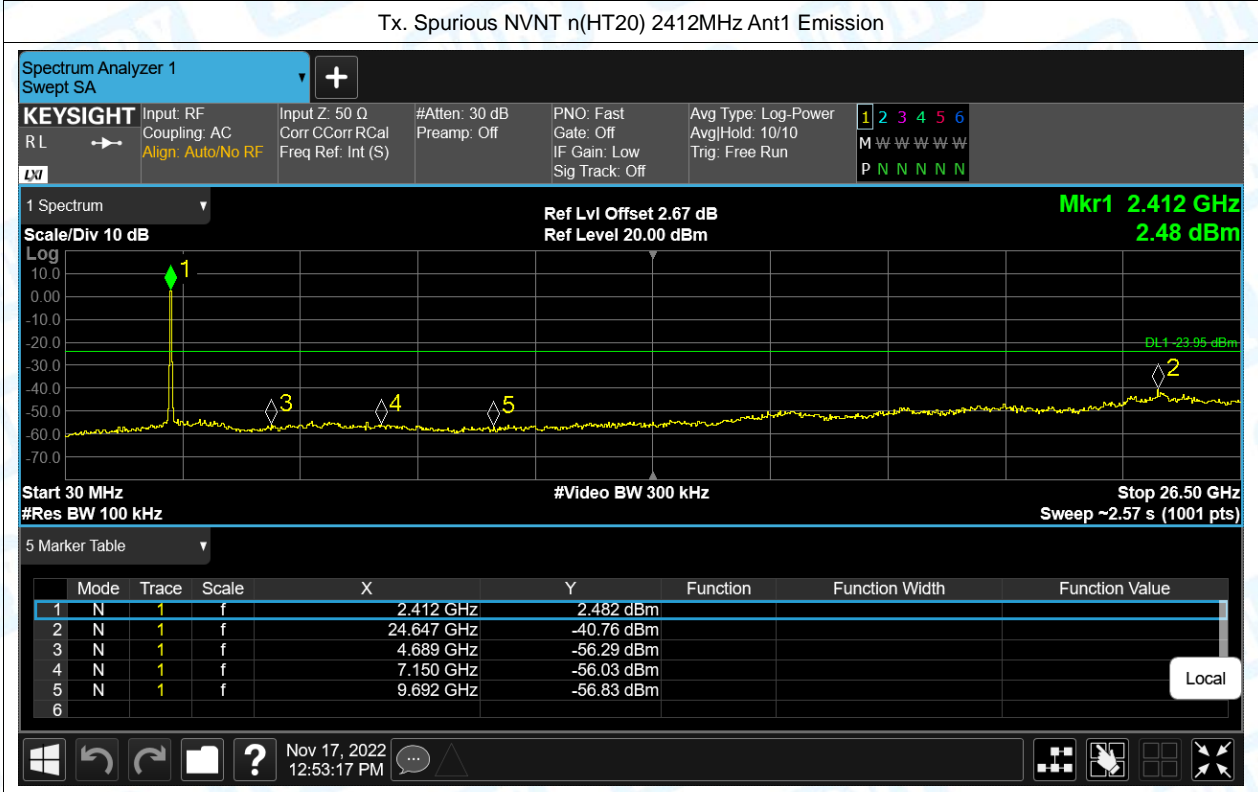
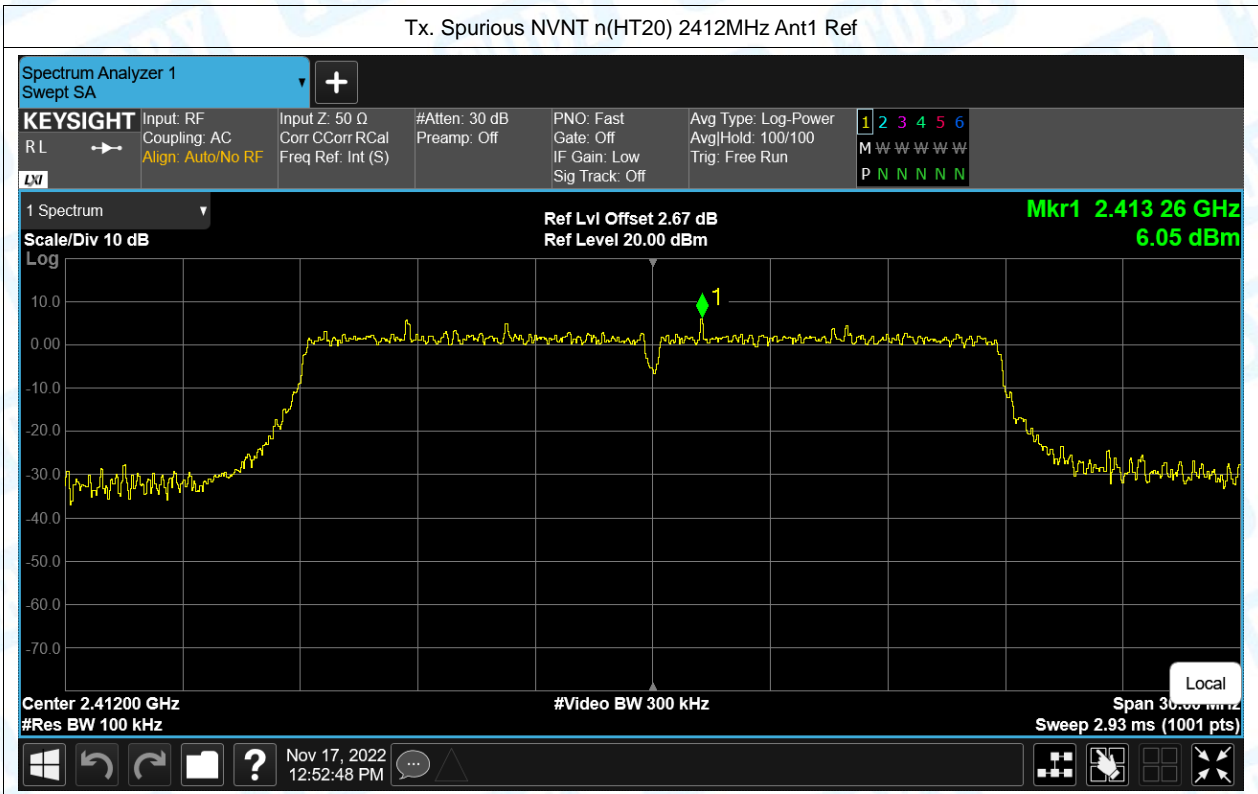


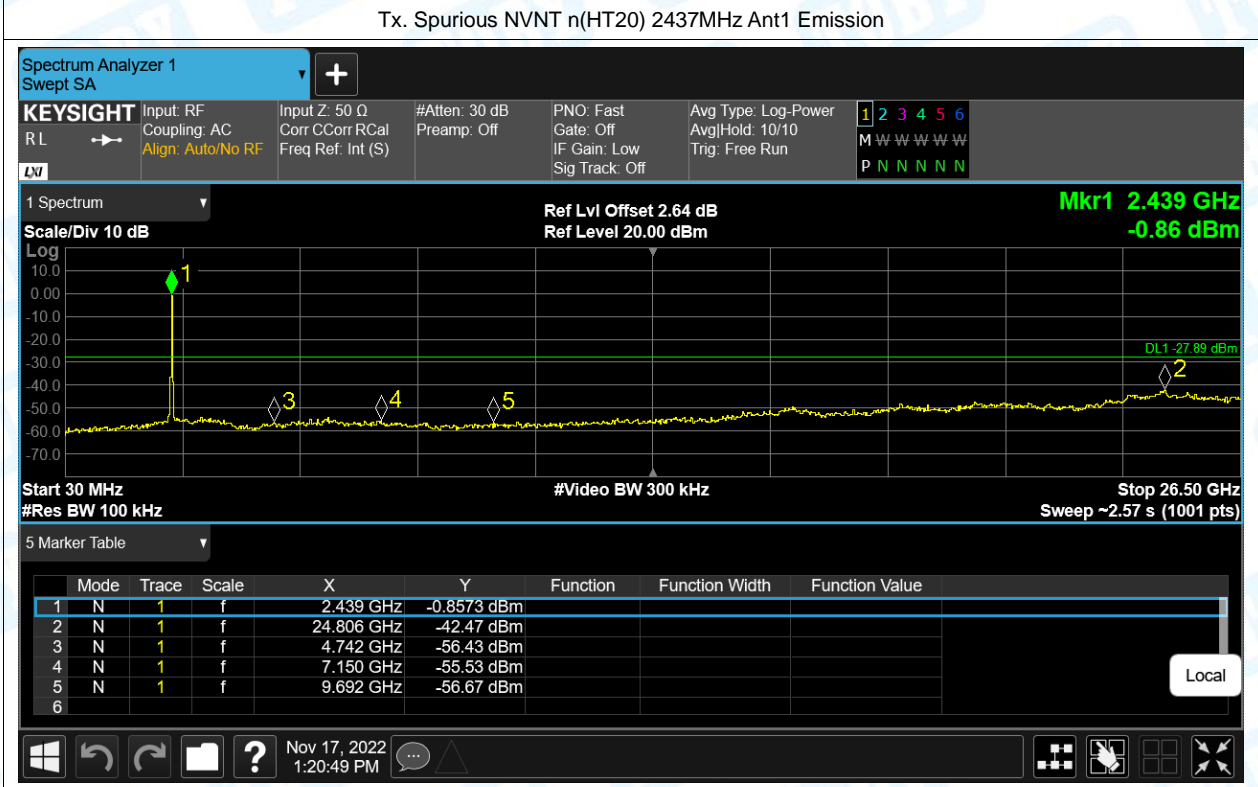
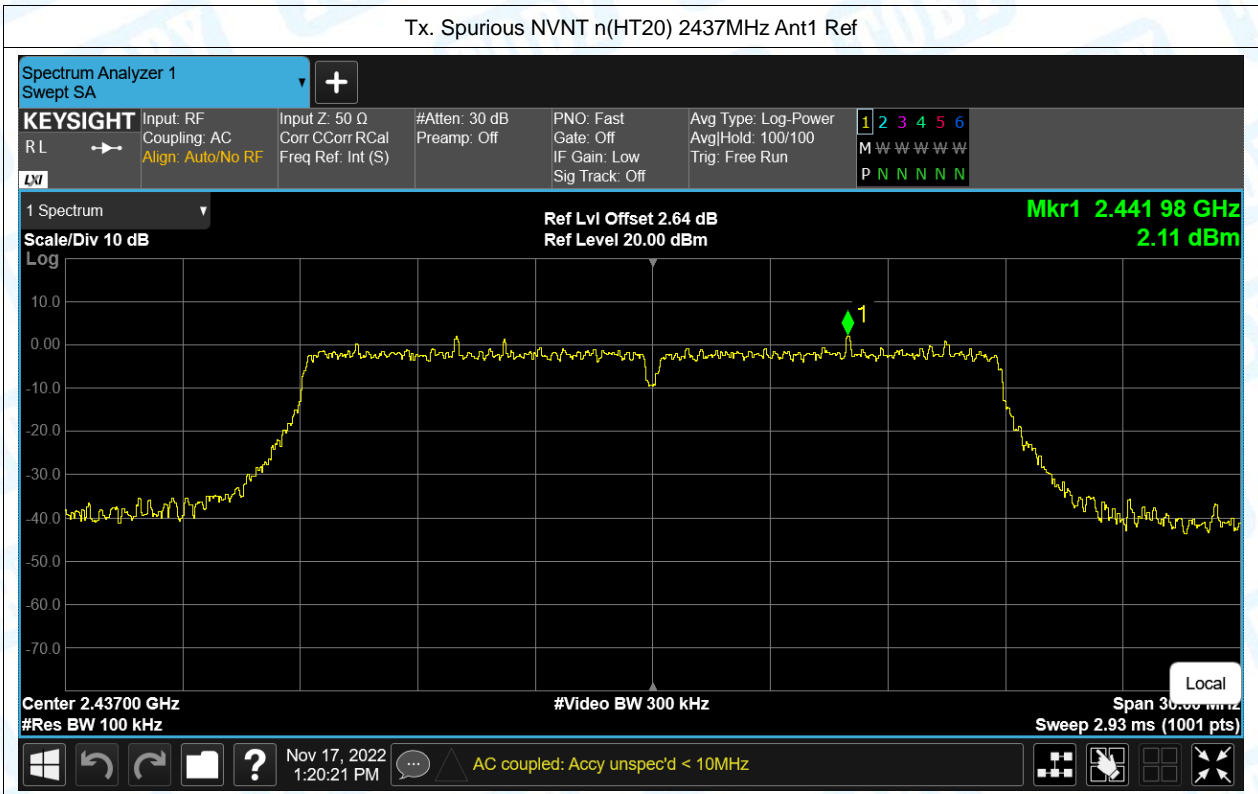


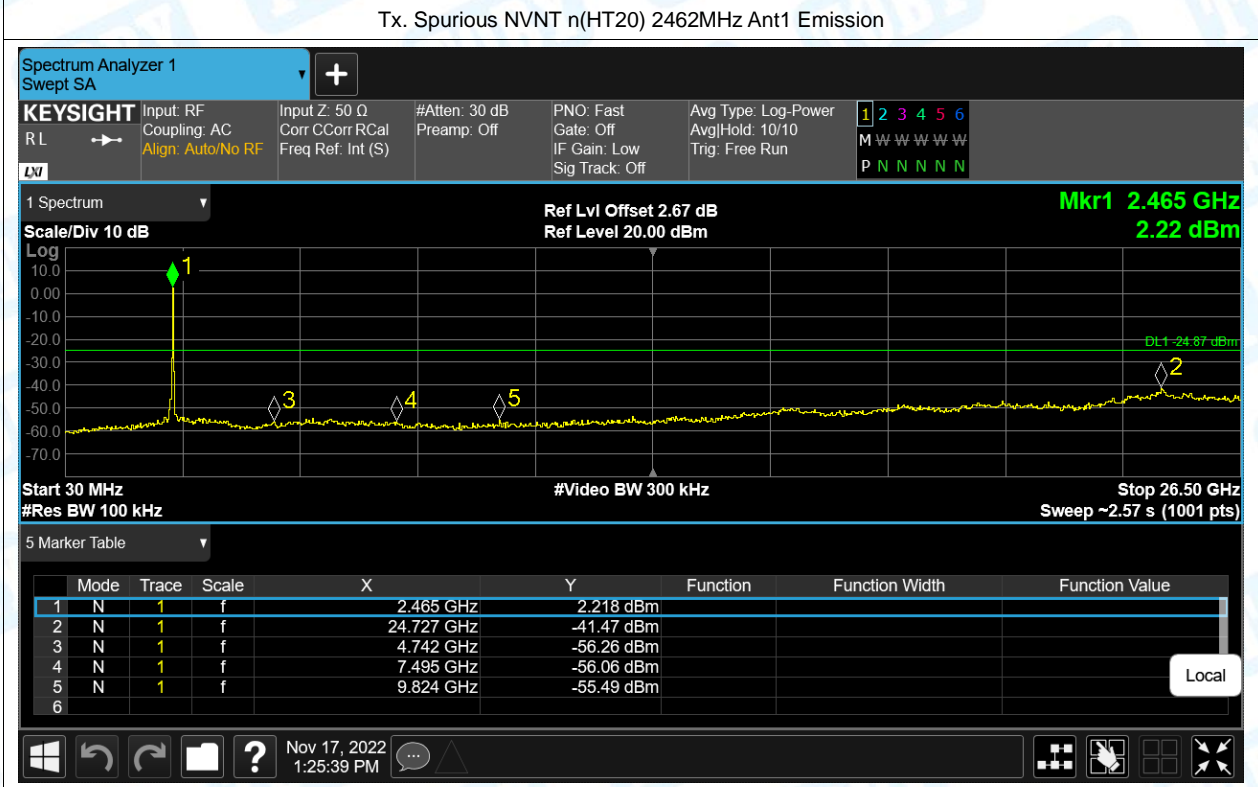
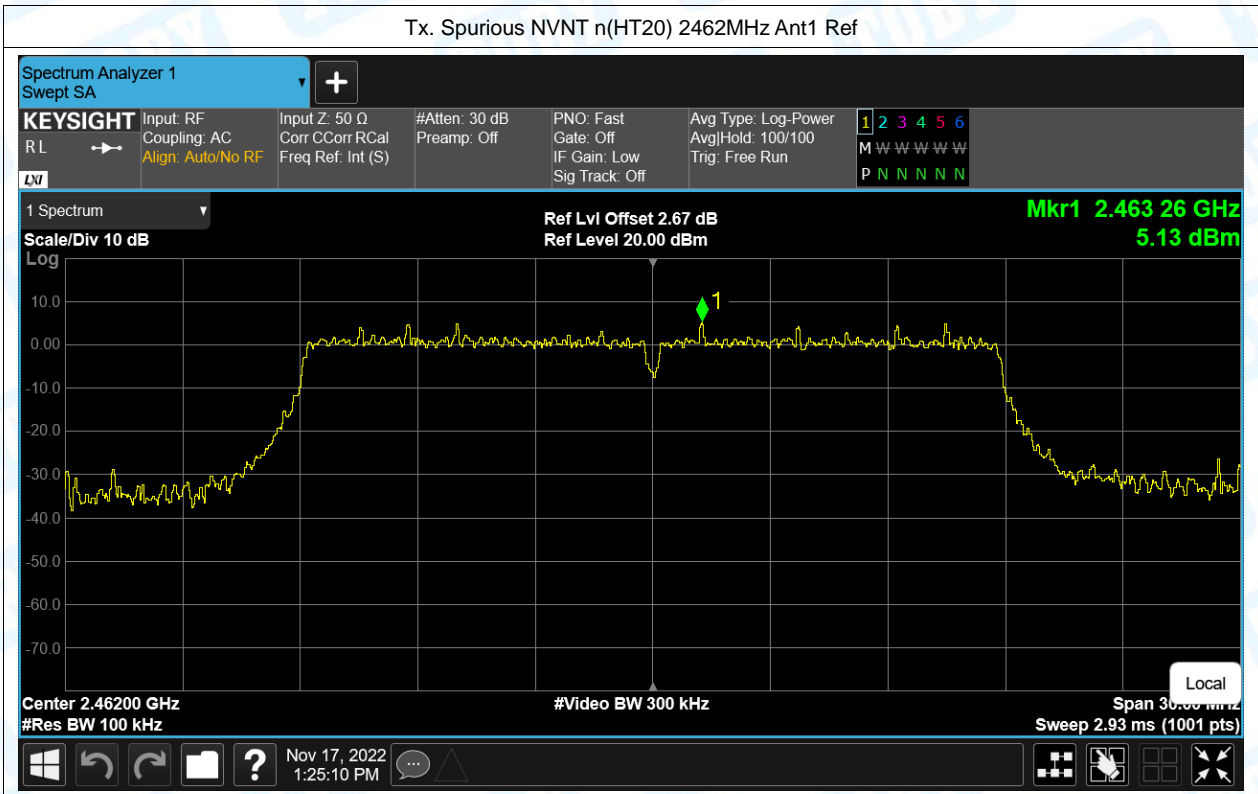






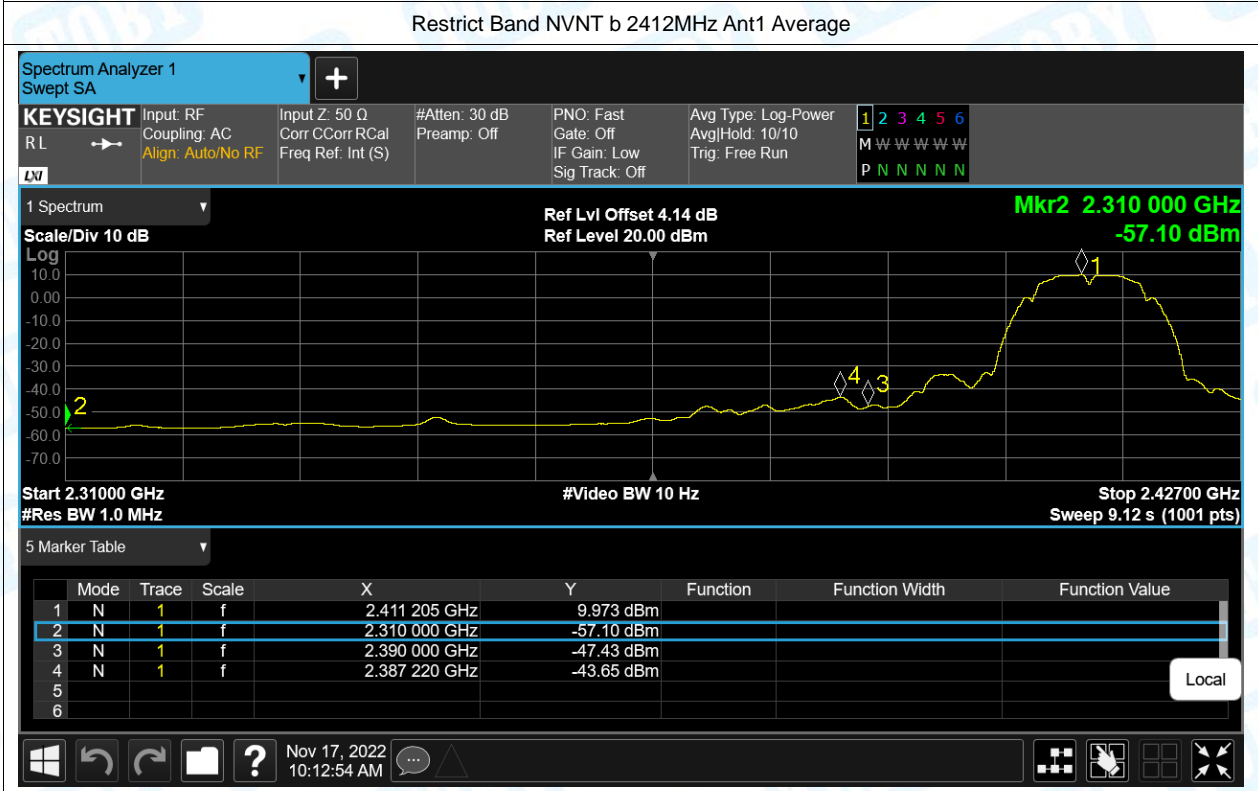
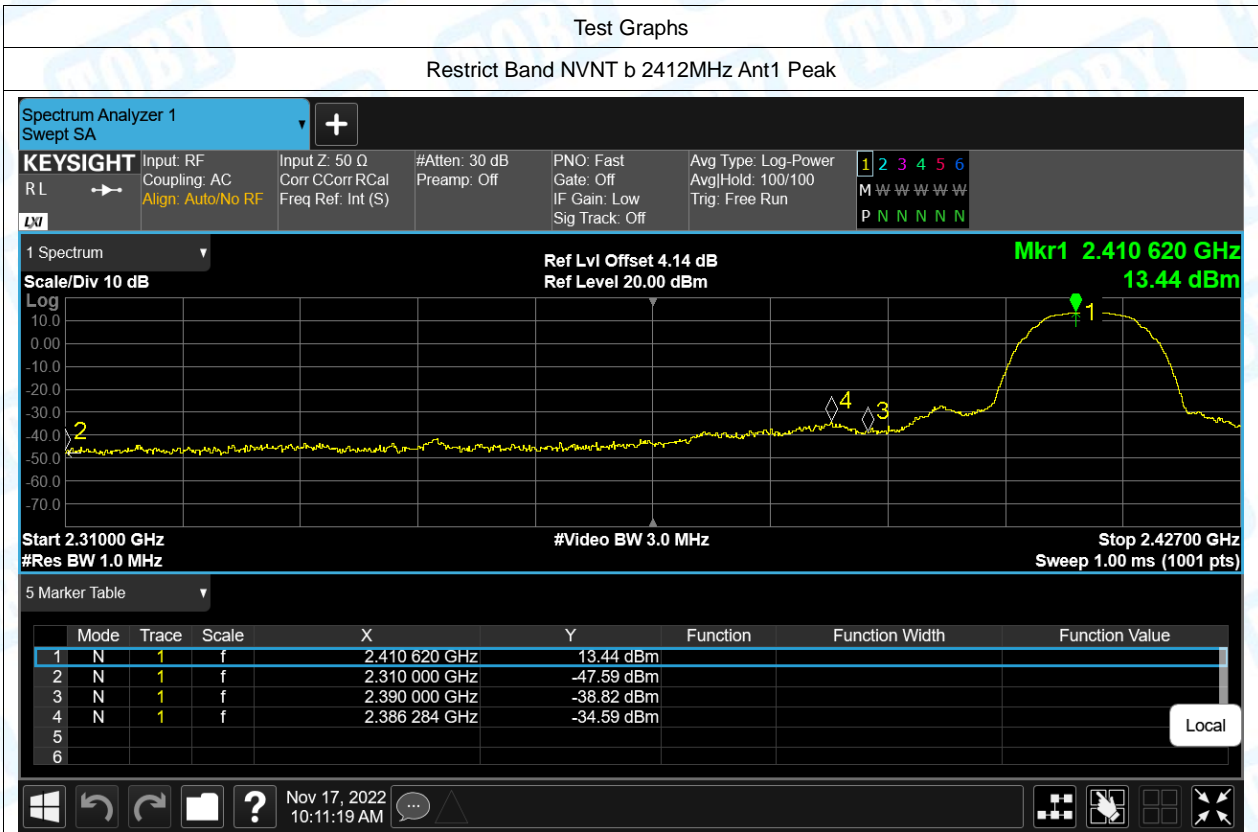


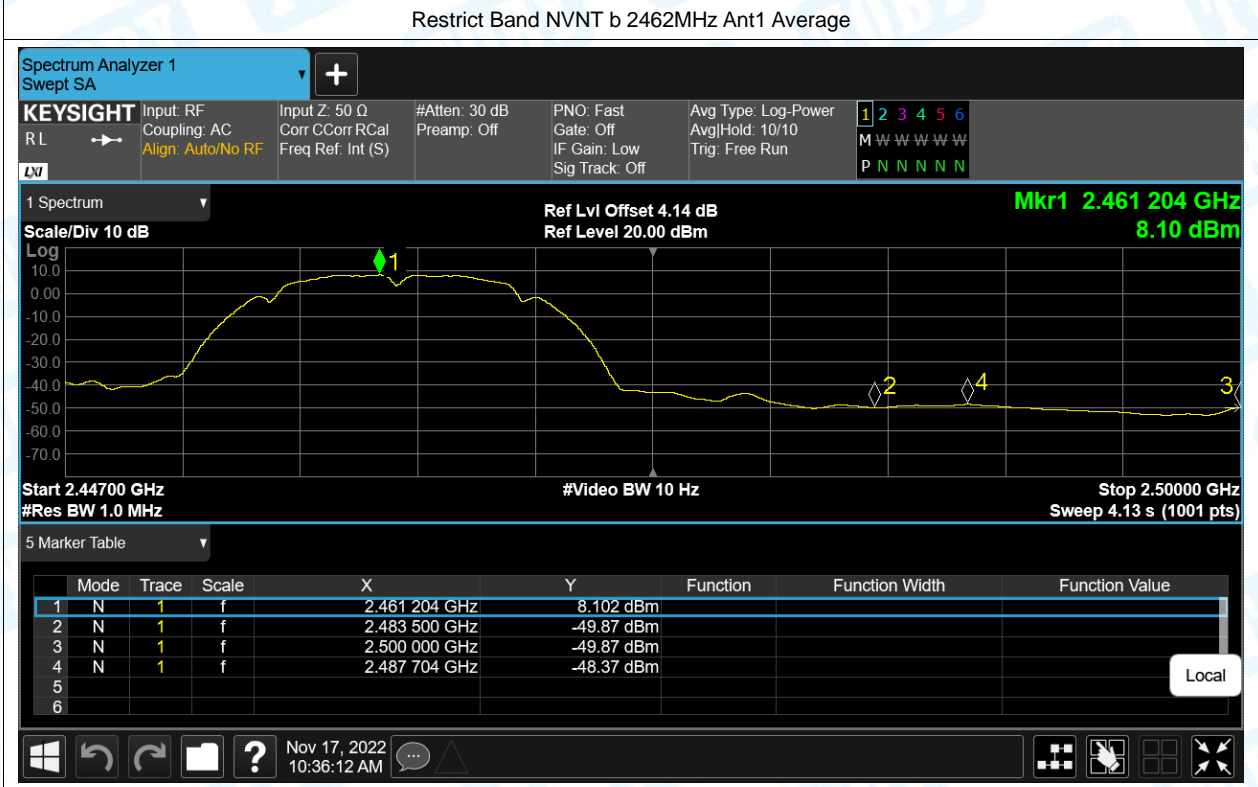
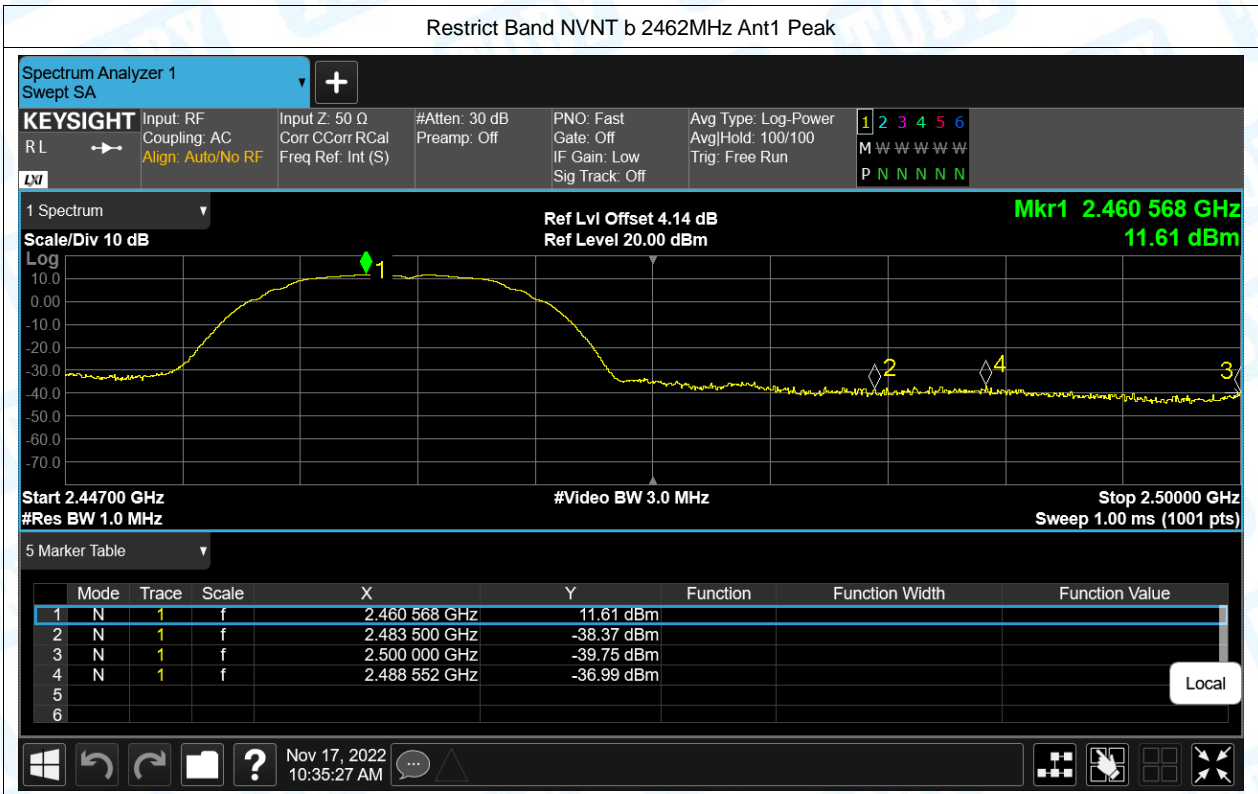


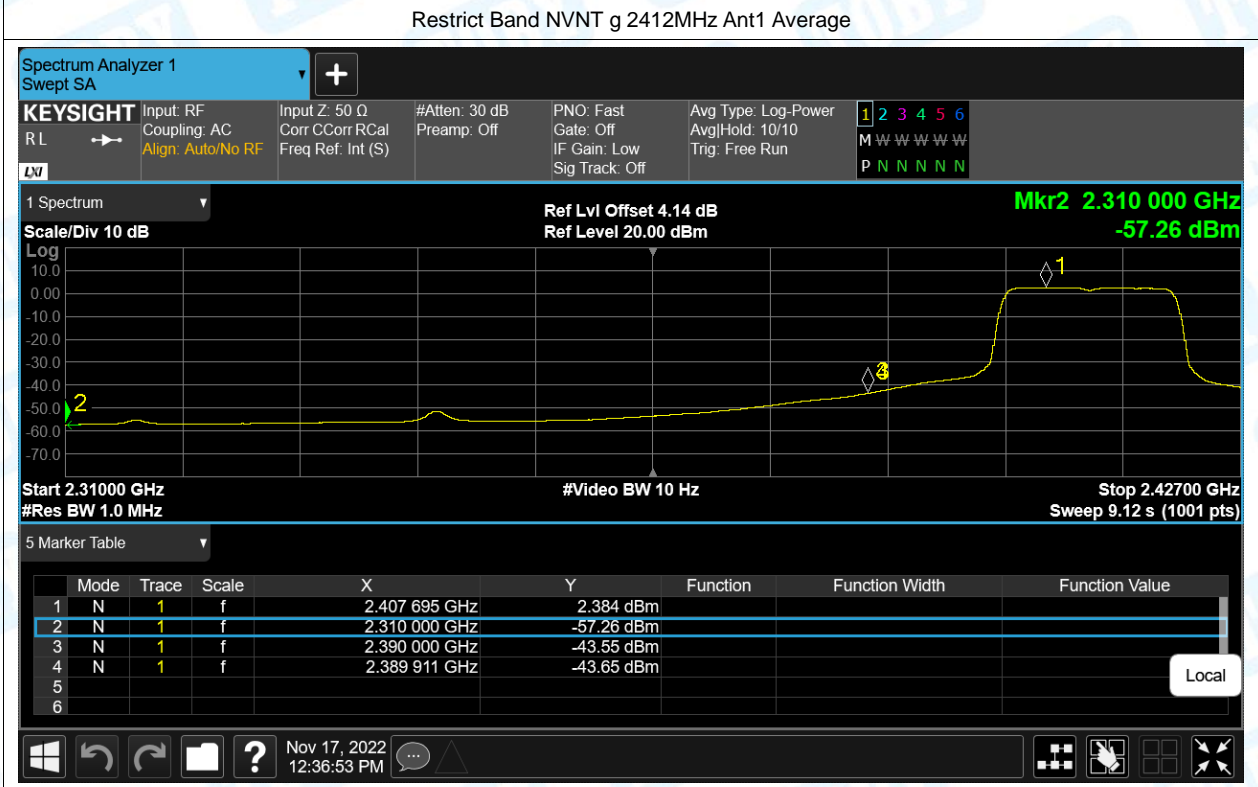
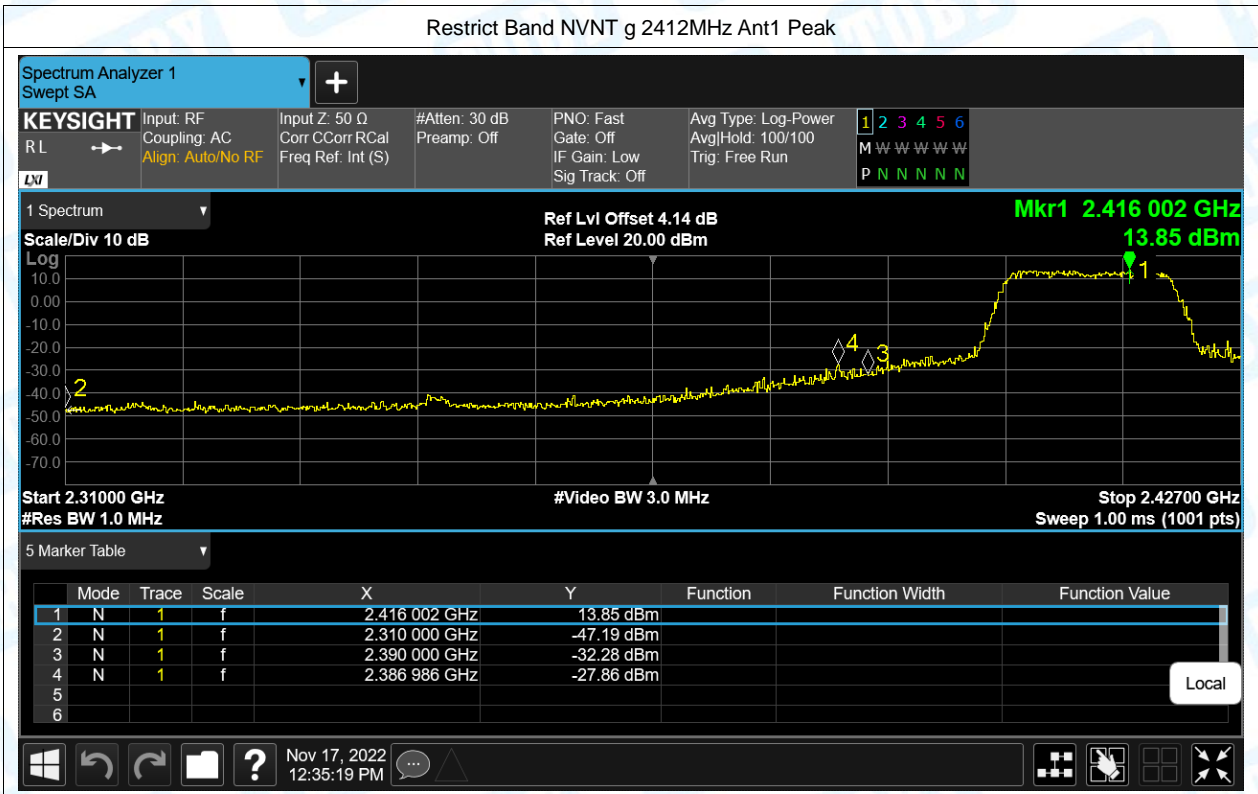


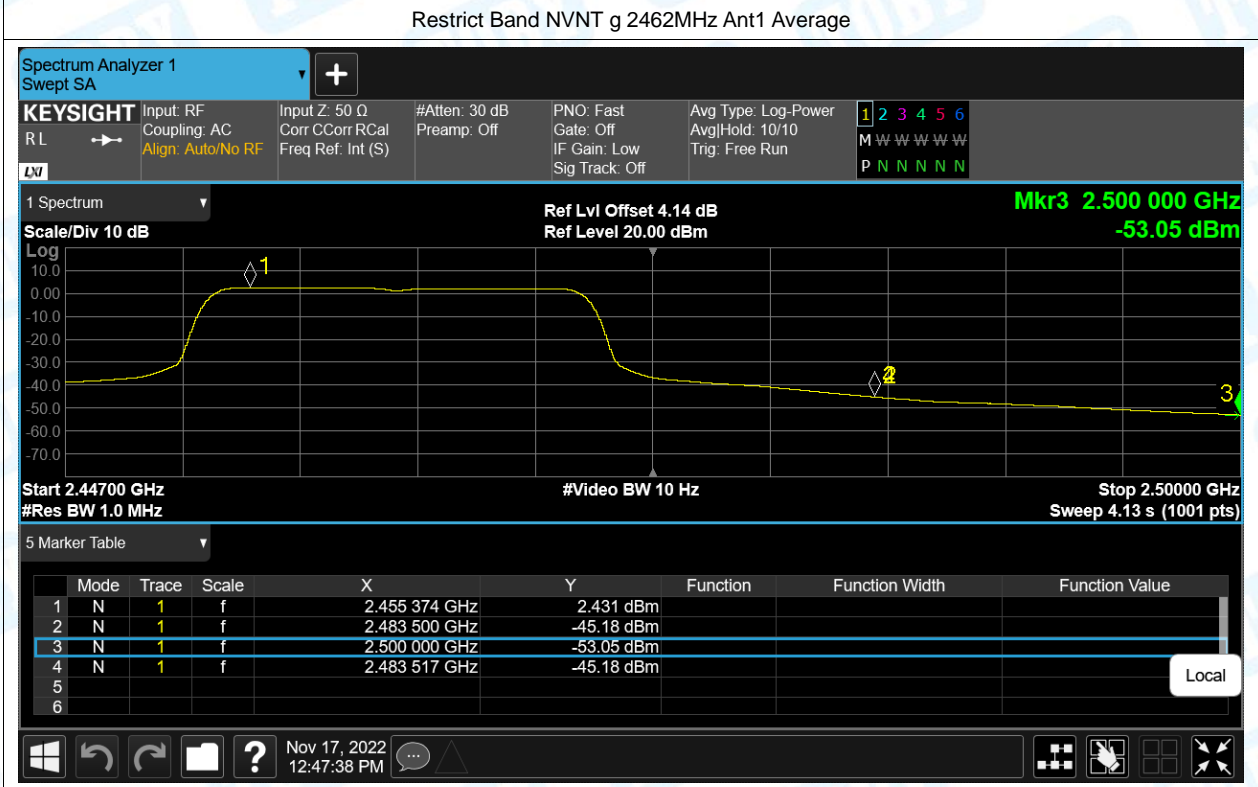
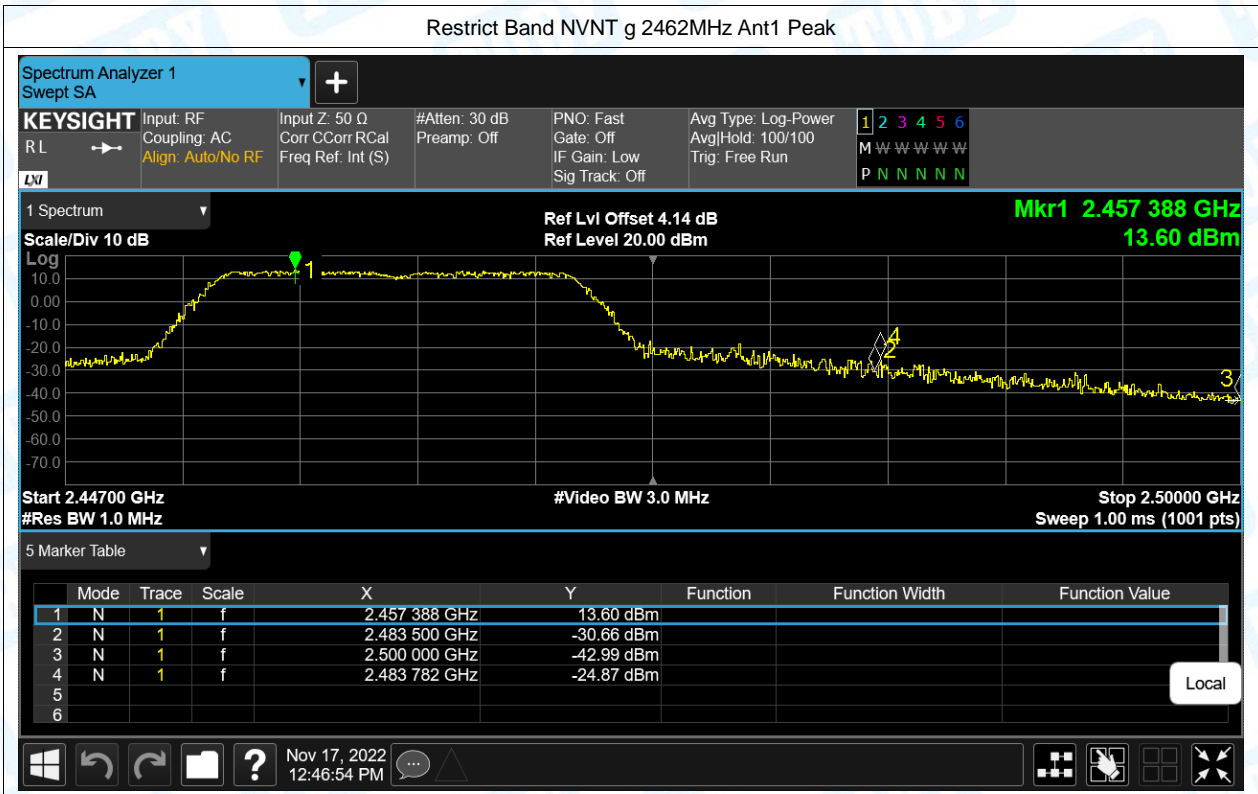
8. Restrict Band

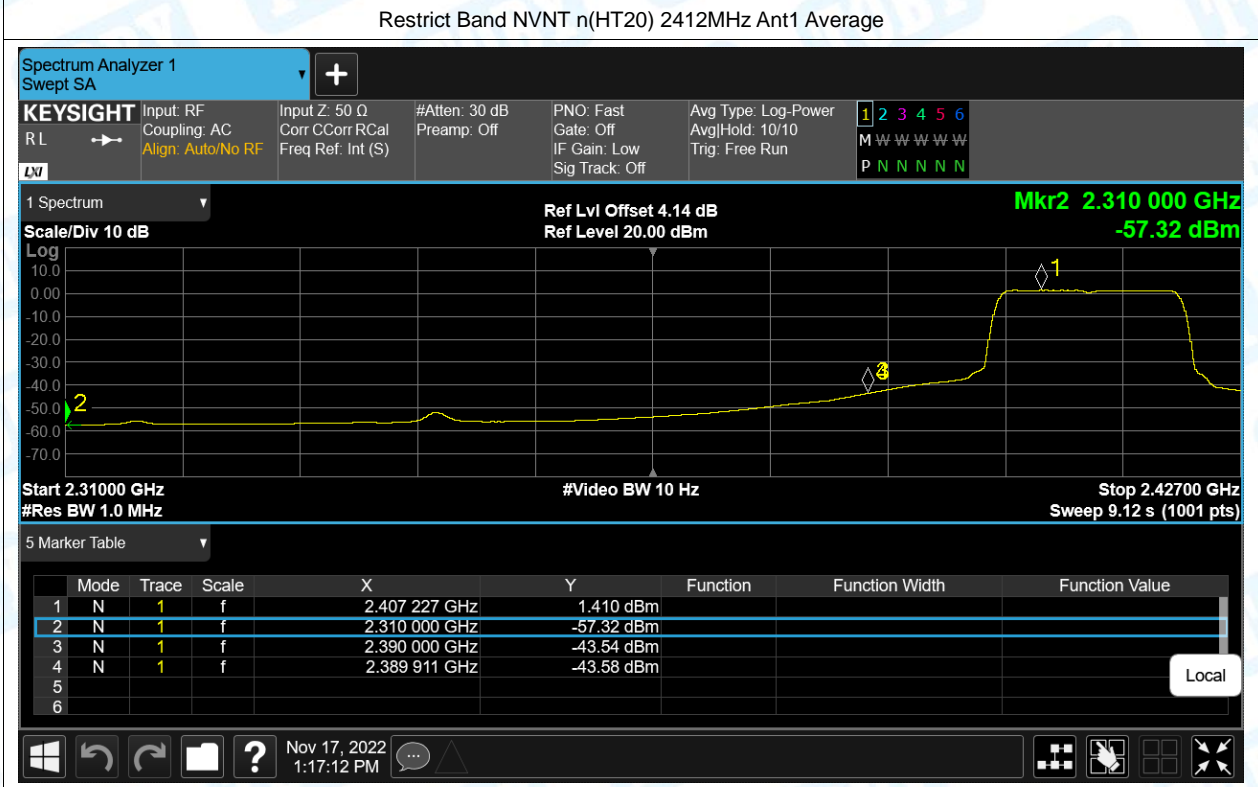
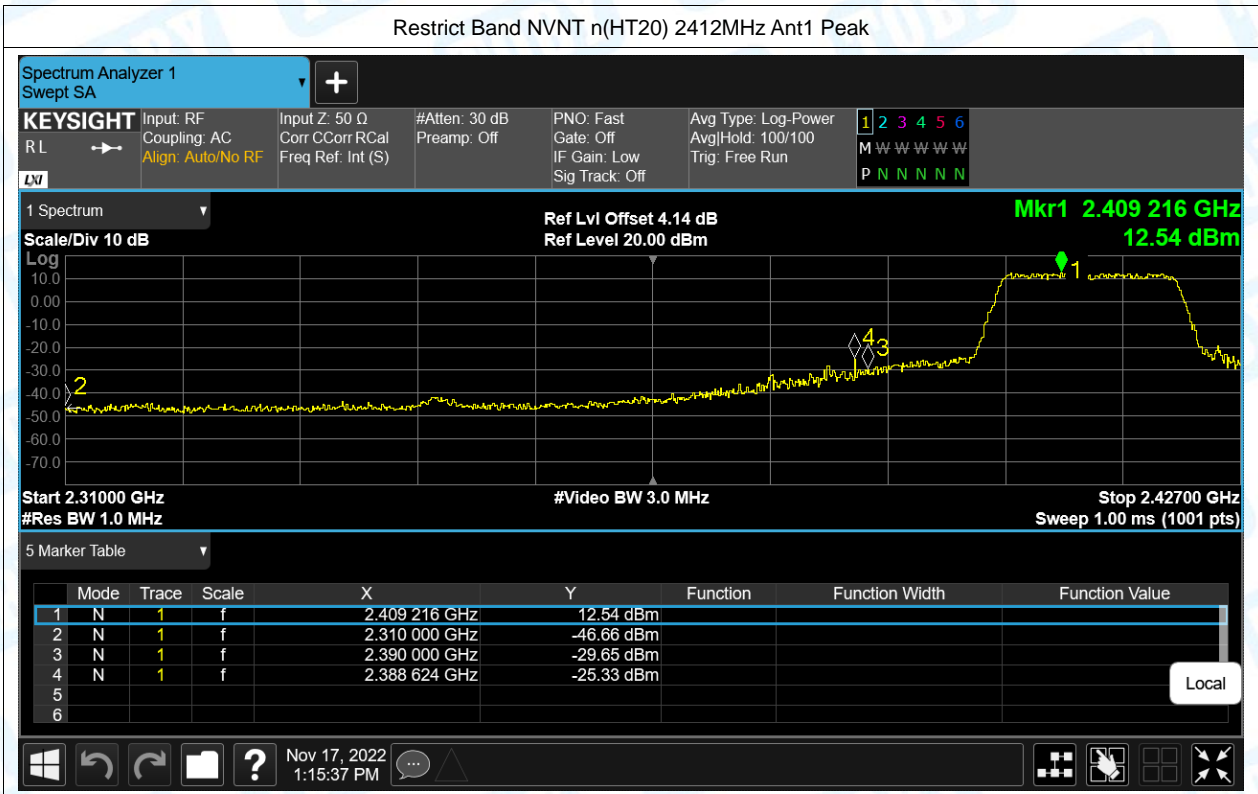
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-47.59	2	49.67	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-57.1	2	40.16	Average	54	Pass
NVNT	b	2412	Ant1	2386.284	-34.59	2	62.67	Peak	74	Pass
NVNT	b	2412	Ant1	2387.22	-43.65	2	53.61	Average	54	Pass
NVNT	b	2412	Ant1	2390	-38.82	2	58.44	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-47.43	2	49.83	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-38.37	2	58.89	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-49.87	2	47.39	Average	54	Pass
NVNT	b	2462	Ant1	2488.552	-36.99	2	60.27	Peak	74	Pass
NVNT	b	2462	Ant1	2487.704	-48.37	2	48.89	Average	54	Pass
NVNT	b	2462	Ant1	2500	-39.75	2	57.51	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-49.87	2	47.39	Average	54	Pass
NVNT	g	2412	Ant1	2310	-47.19	2	50.07	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-57.26	2	40	Average	54	Pass
NVNT	g	2412	Ant1	2386.986	-27.86	2	69.4	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-43.65	2	53.61	Average	54	Pass
NVNT	g	2412	Ant1	2390	-32.28	2	64.98	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-43.55	2	53.71	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-30.66	2	66.6	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-45.18	2	52.08	Average	54	Pass
NVNT	g	2462	Ant1	2483.782	-24.87	2	72.39	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-45.18	2	52.08	Average	54	Pass
NVNT	g	2462	Ant1	2500	-42.99	2	54.27	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-53.05	2	44.21	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-46.66	2	50.6	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-57.32	2	39.94	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2388.624	-25.33	2	71.93	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2389.911	-43.58	2	53.68	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-29.65	2	67.61	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-43.54	2	53.72	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-30.65	2	66.61	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-45.14	2	52.12	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2486.591	-24.37	2	72.89	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.517	-45.14	2	52.12	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-41.41	2	55.85	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-53.14	2	44.12	Average	54	Pass

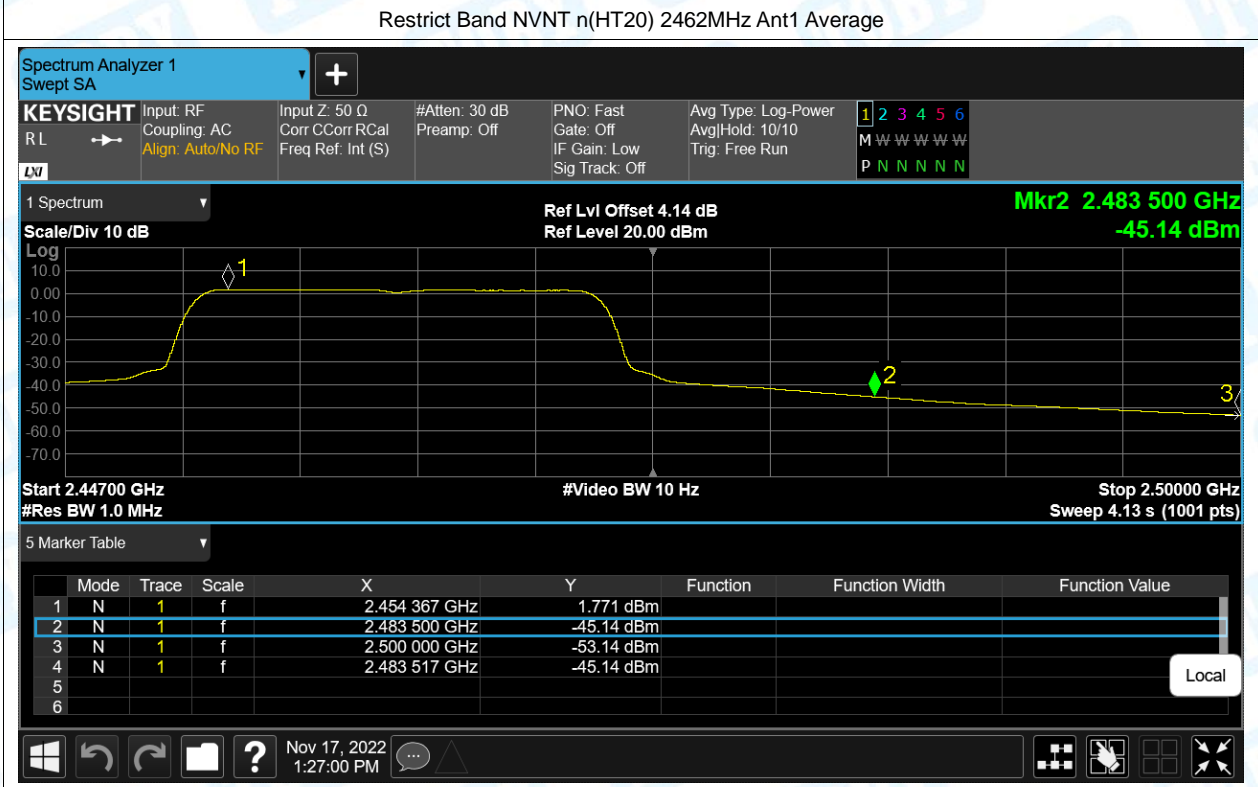
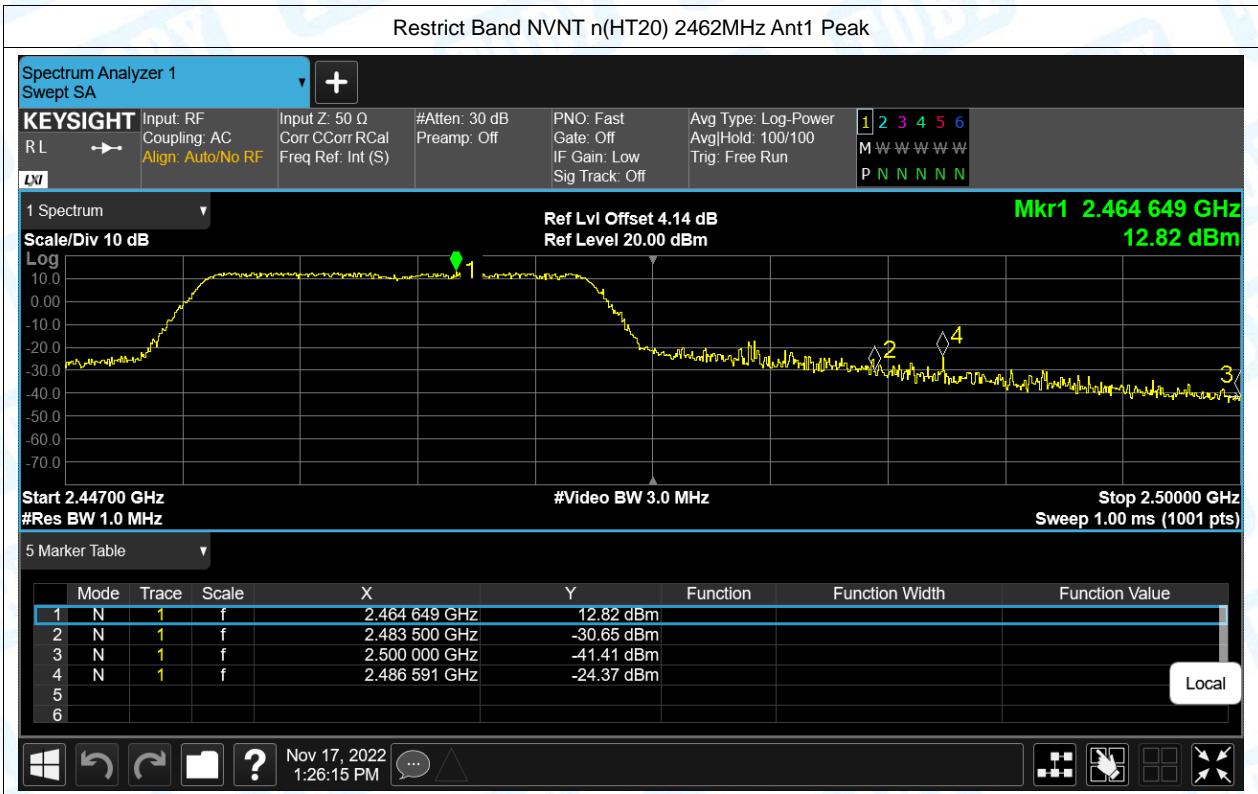












-----END OF THE REPORT-----