

RF Test Data for 2.4G WiFi

(Conducted Measurements)

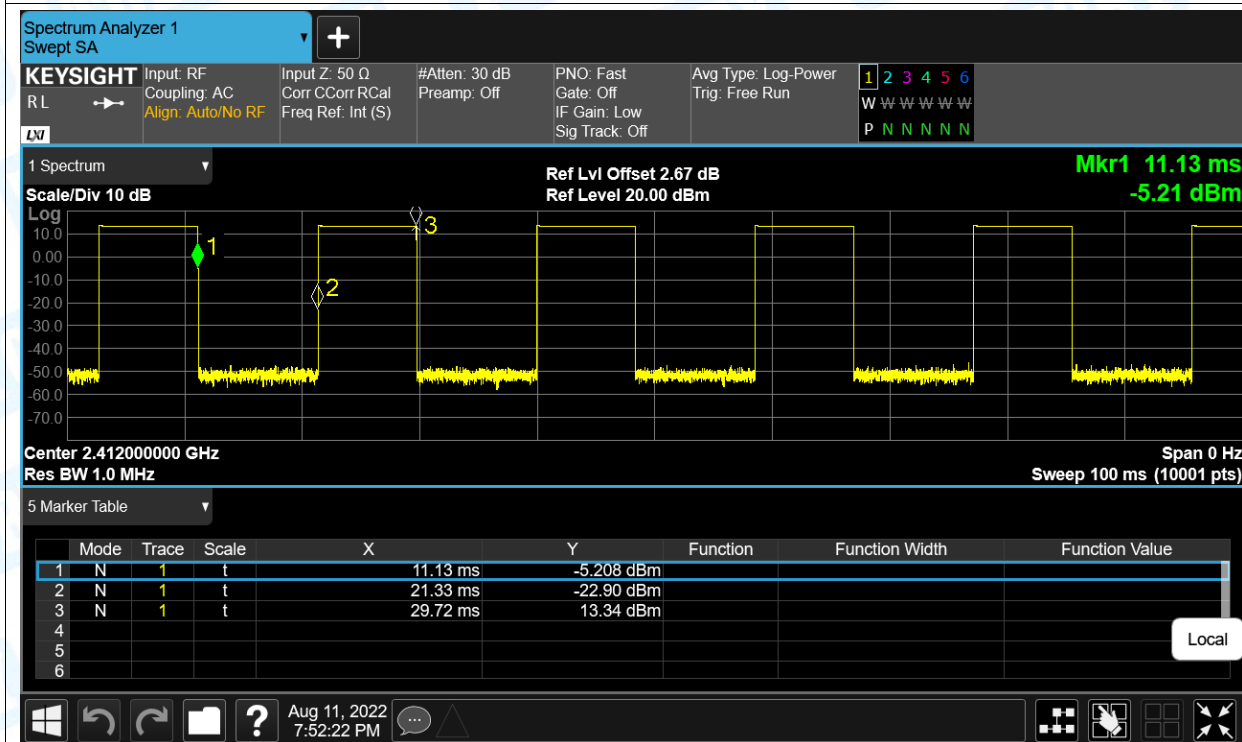
General Description of EUT	
Product Name:	Wireless Camera
Test Model:	CA825
Sample ID:	RW-C-202206-0130-4-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 9V
Test Engineer:	Zhu dian yuan
Note: For a more detailed features description, please refer to the report TBR-C-202206-0130-8.	

1. Duty Cycle

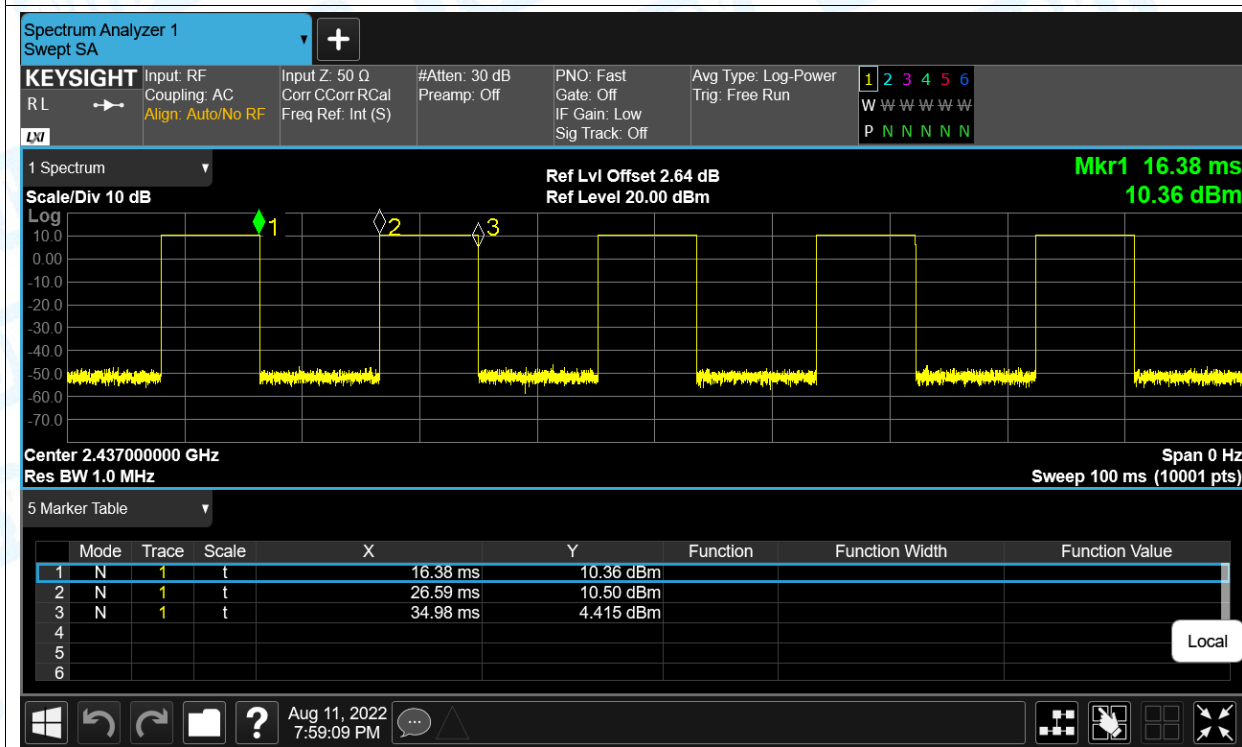
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	46.3	3.34	0.12
NVNT	b	2437	Ant1	42	3.77	0.12
NVNT	b	2462	Ant1	44.27	3.54	0.12
NVNT	g	2412	Ant1	12.06	9.19	0.71
NVNT	g	2437	Ant1	12.25	9.12	0.72
NVNT	g	2462	Ant1	11.98	9.22	0.72
Note: Duty Cycle(%)=ON(ms)/(ON(ms)+OFF(ms)) ON(ms)=Maker3-Maker2 (ON(ms)+OFF(ms))=Maker3-Maker1						

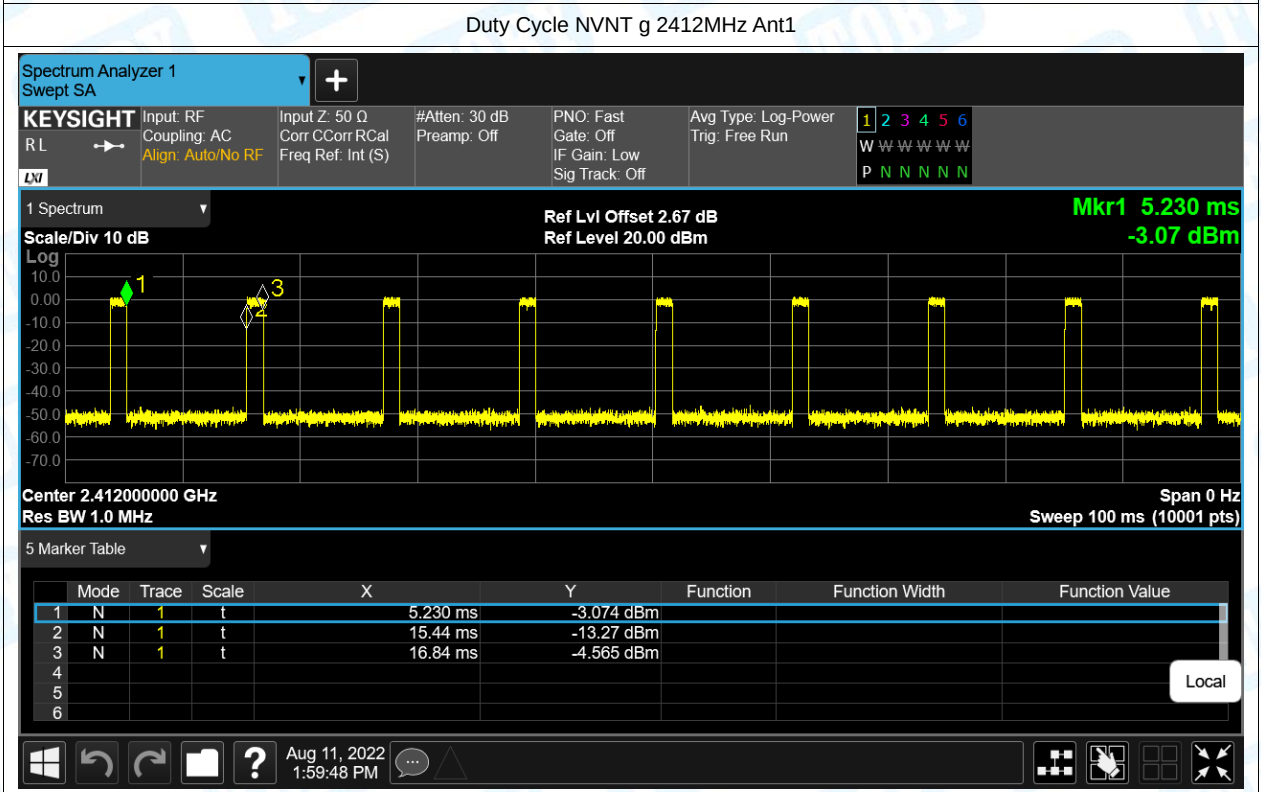
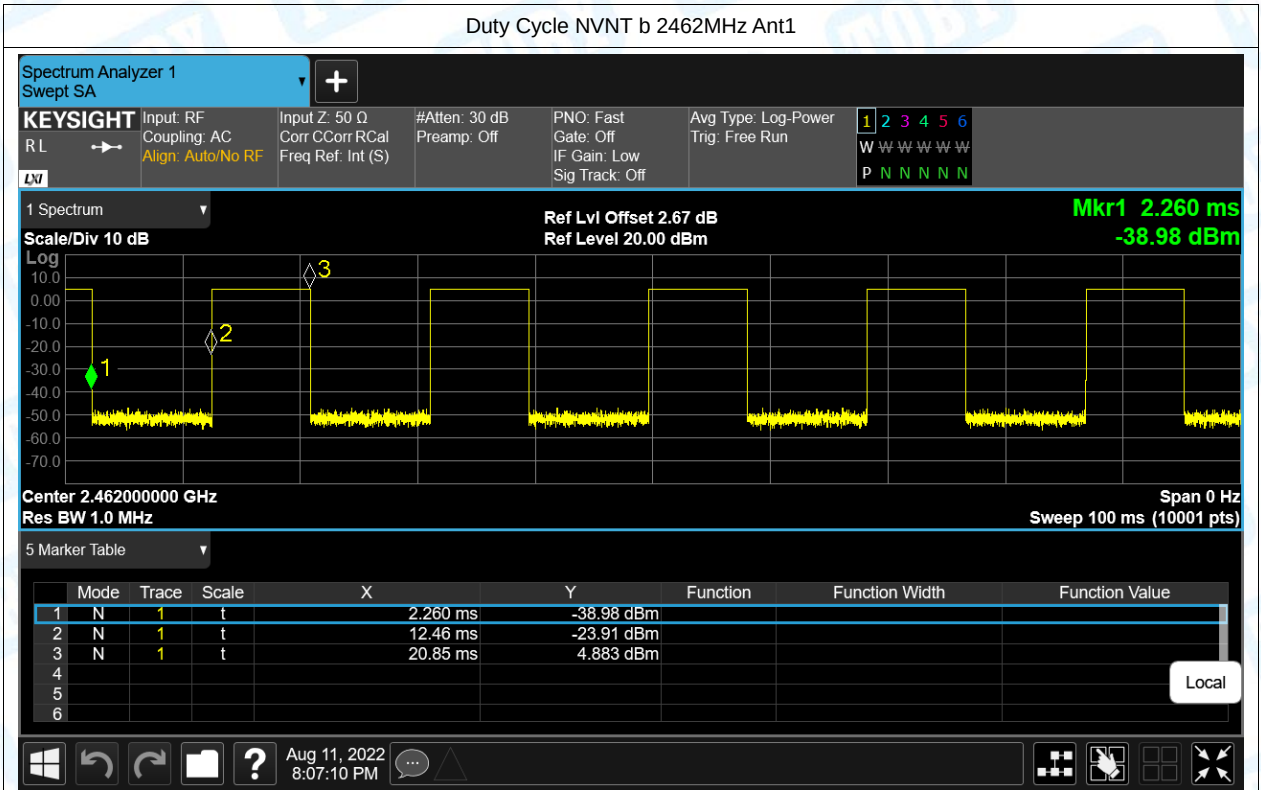
Test Graphs

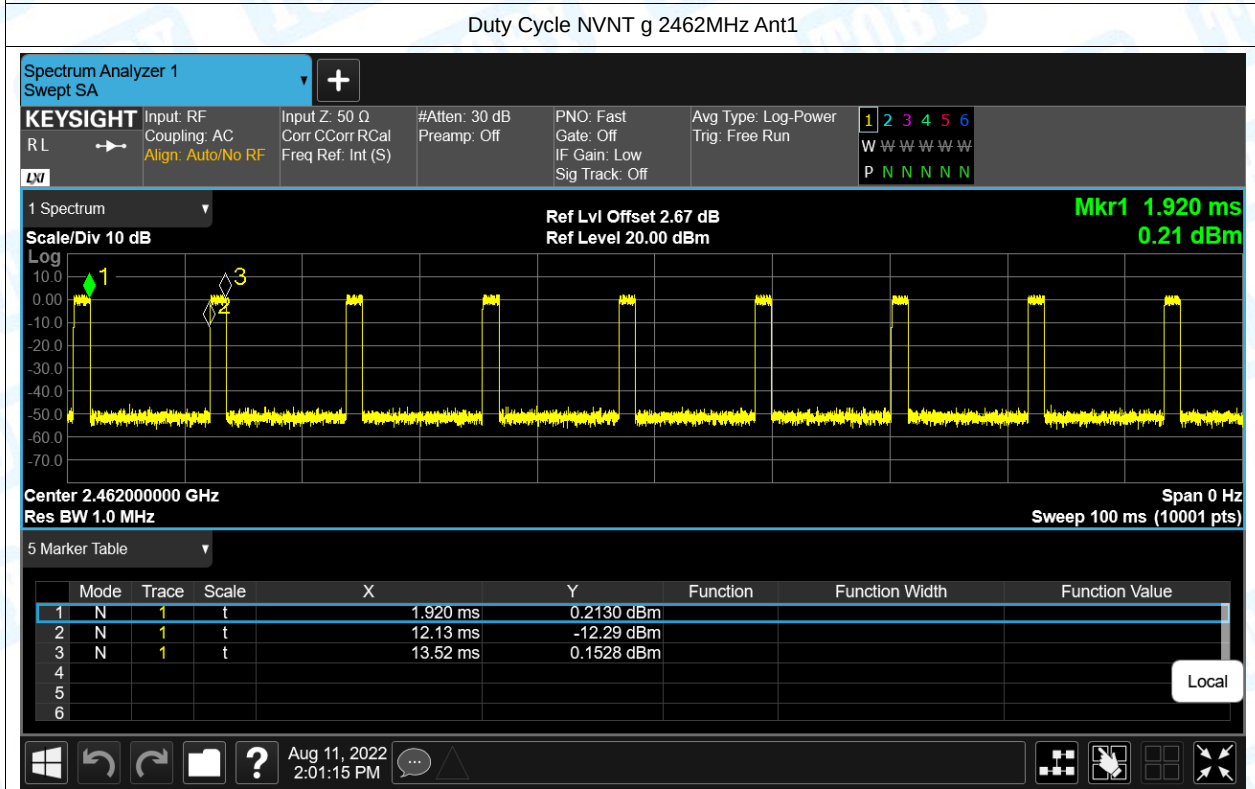
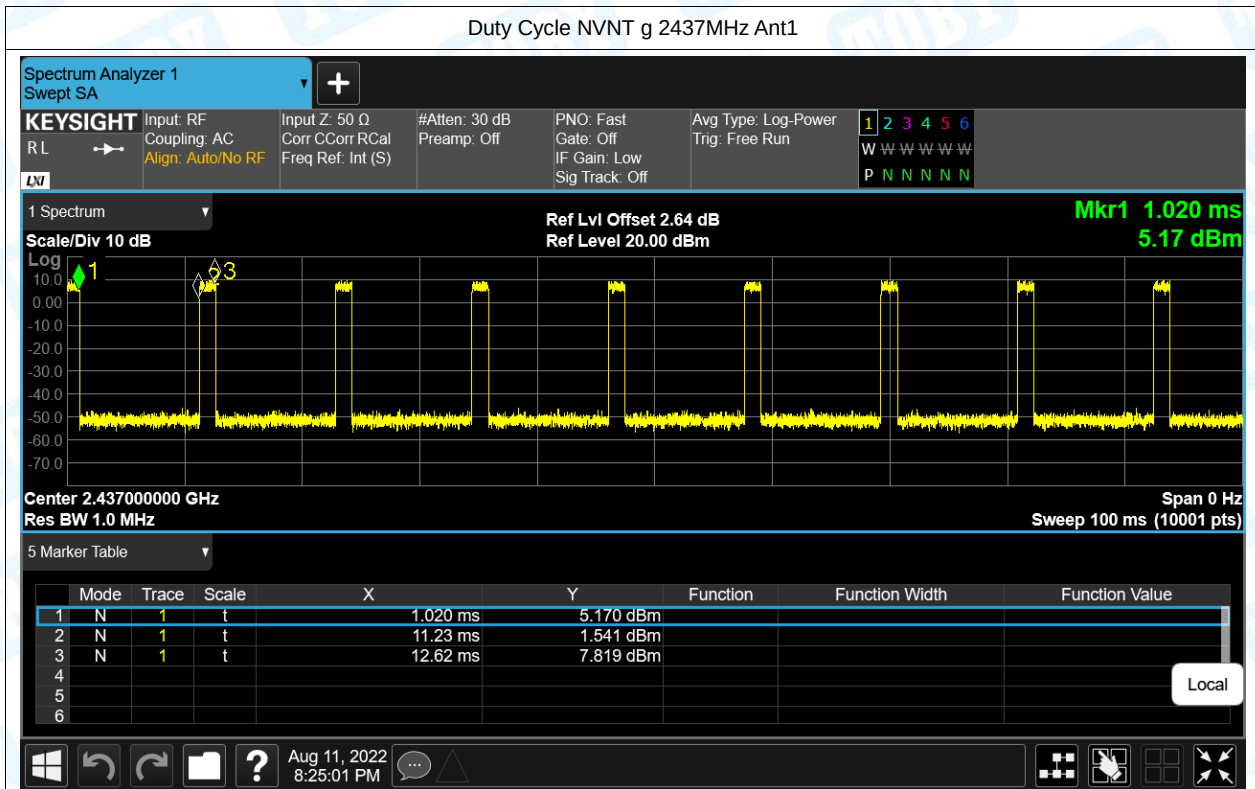
Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1







2. Maximum Conducted Output Power

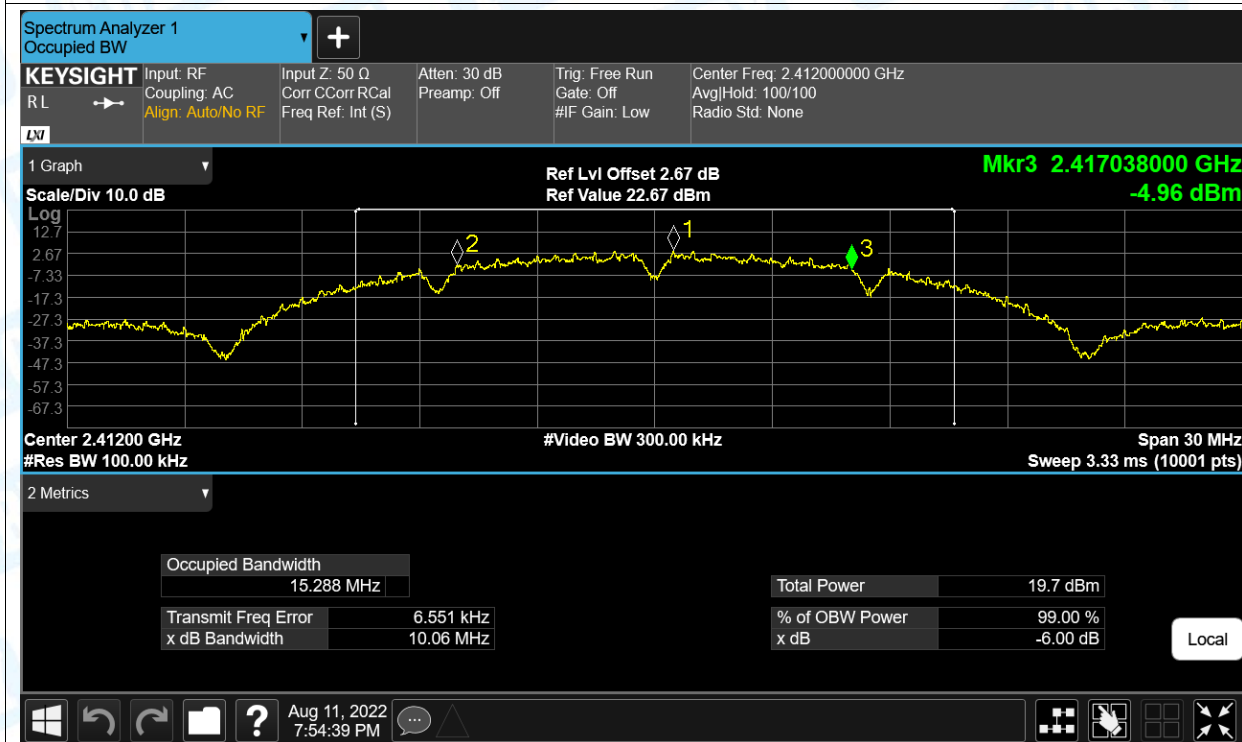
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.03	30	Pass
NVNT	b	2437	Ant1	14.31	30	Pass
NVNT	b	2462	Ant1	14.36	30	Pass
NVNT	g	2412	Ant1	8.25	30	Pass
NVNT	g	2437	Ant1	9.24	30	Pass
NVNT	g	2462	Ant1	8.23	30	Pass

3. -6dB Bandwidth

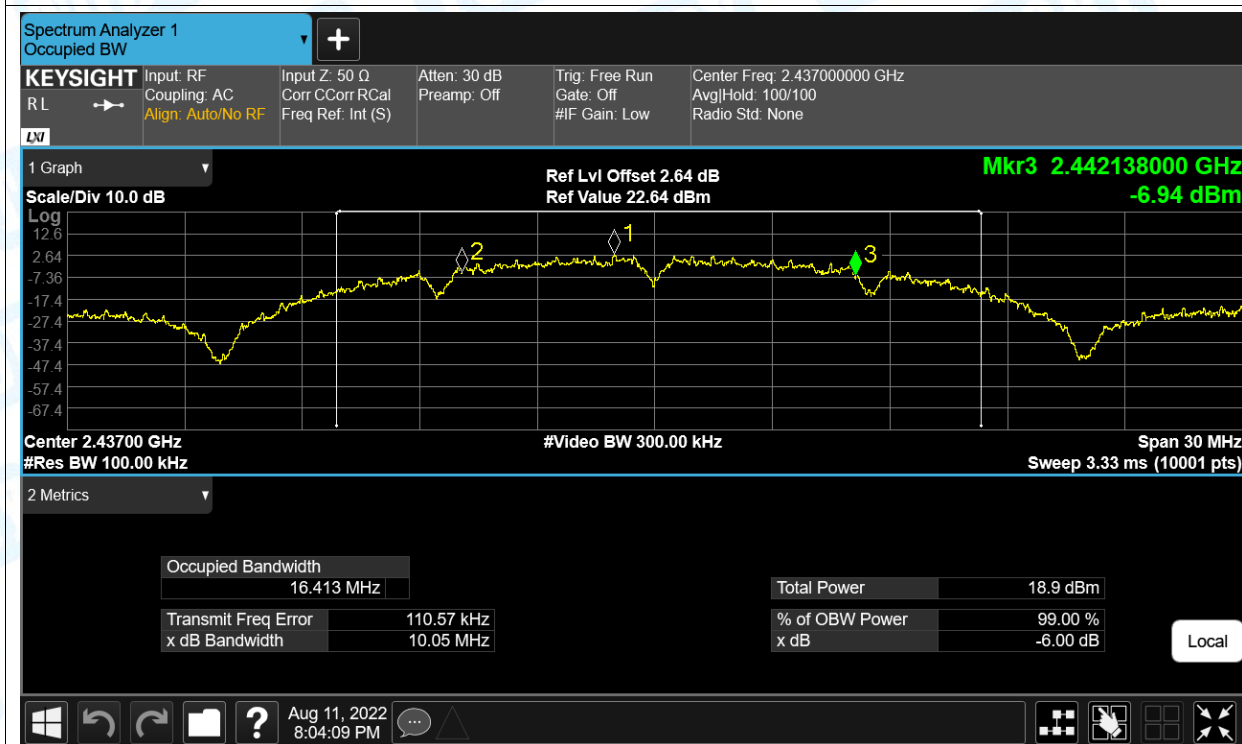
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.06	0.5	Pass
NVNT	b	2437	Ant1	10.05	0.5	Pass
NVNT	b	2462	Ant1	10.02	0.5	Pass
NVNT	g	2412	Ant1	16.39	0.5	Pass
NVNT	g	2437	Ant1	16.41	0.5	Pass
NVNT	g	2462	Ant1	16.48	0.5	Pass

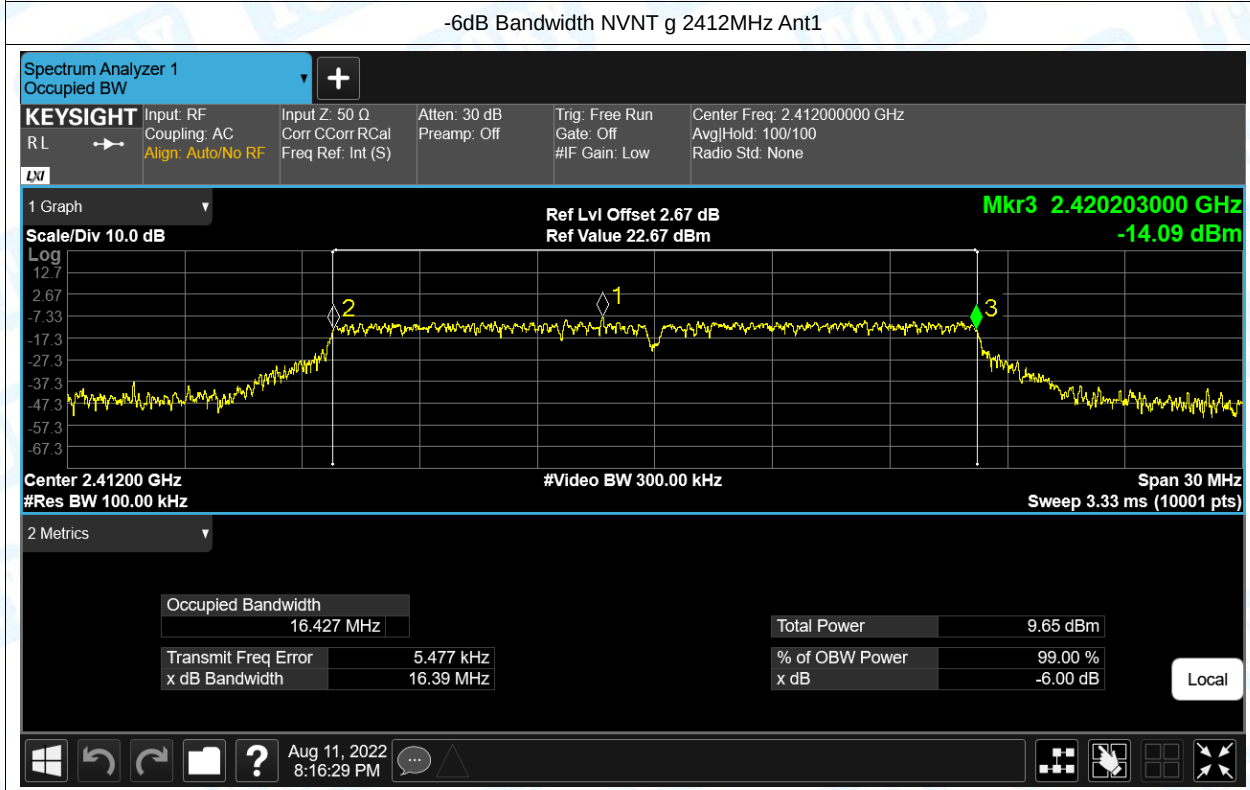
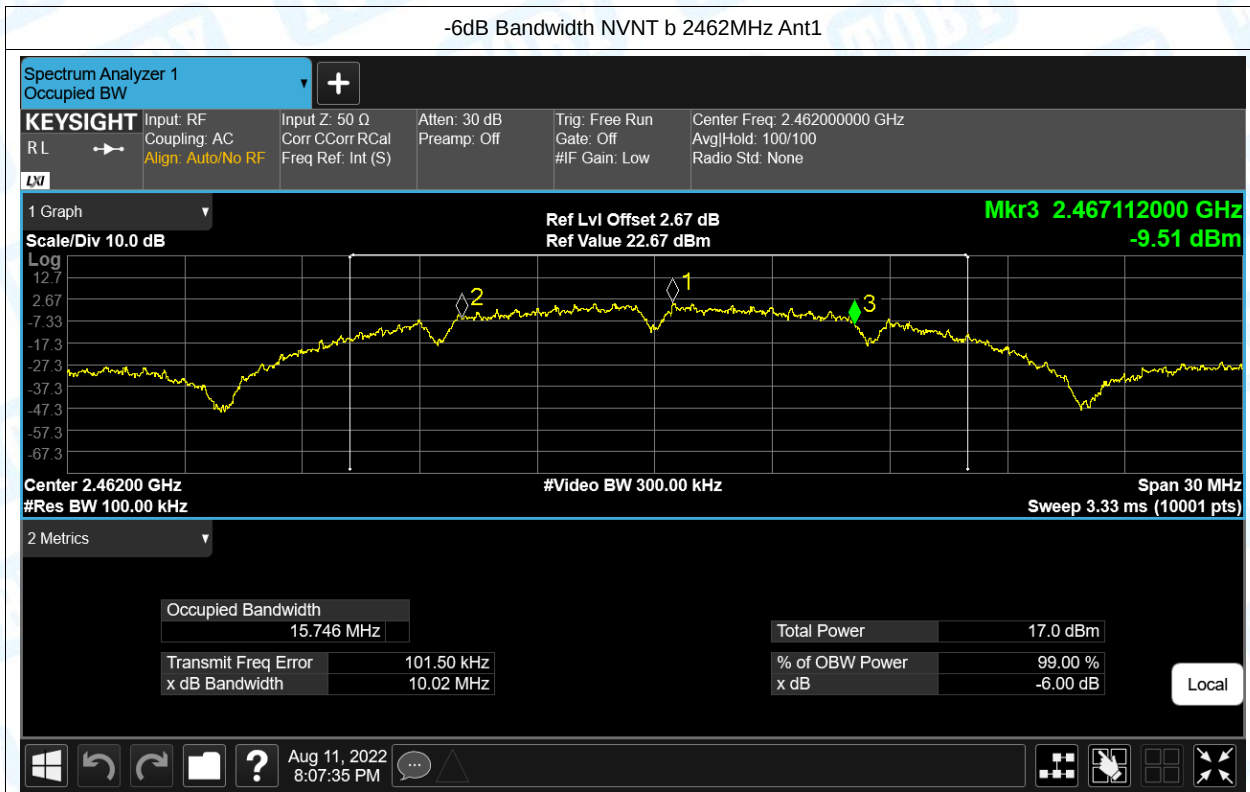
Test Graphs

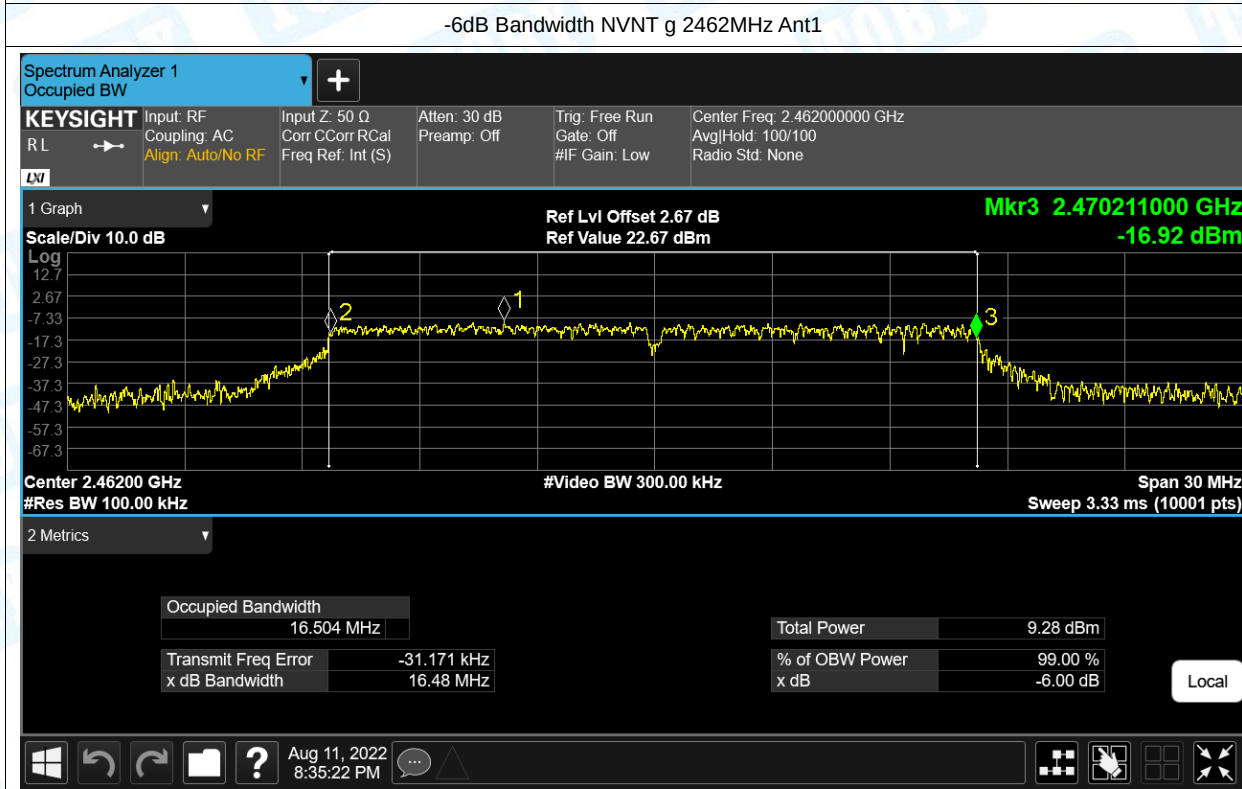
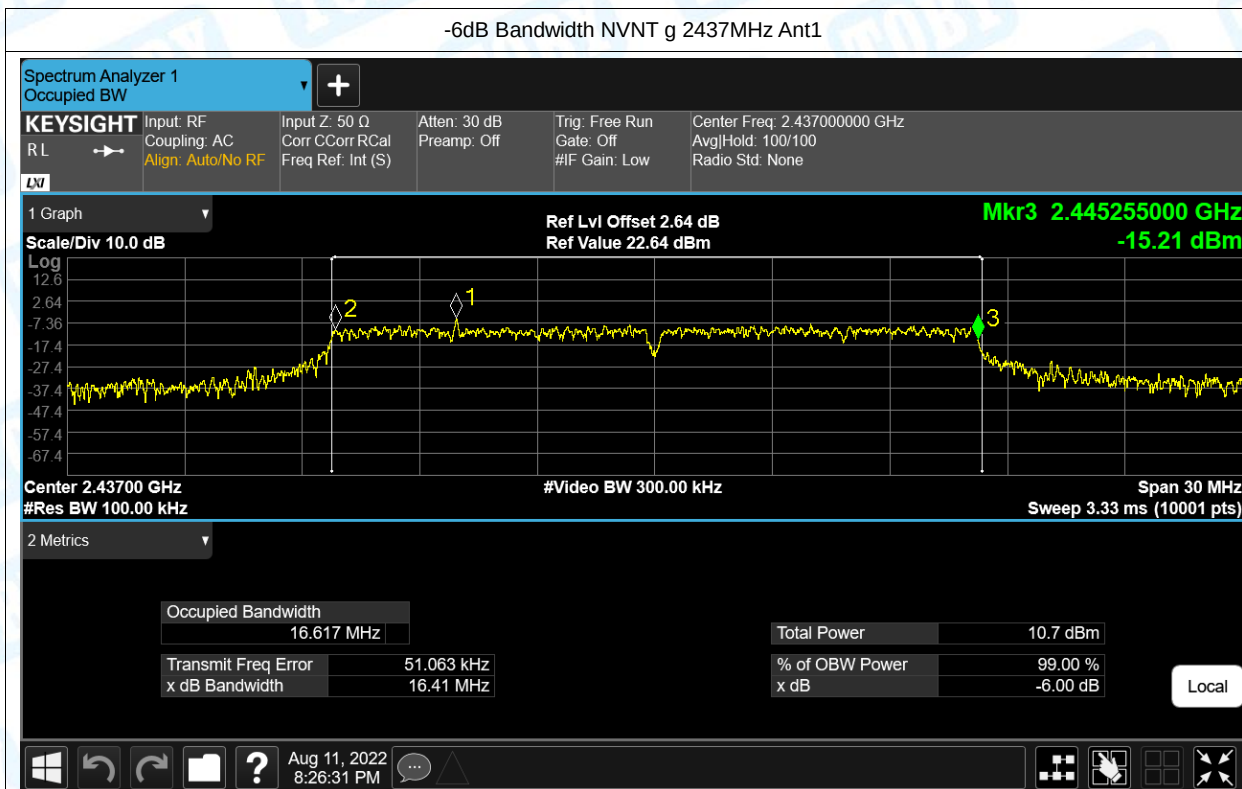
-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1





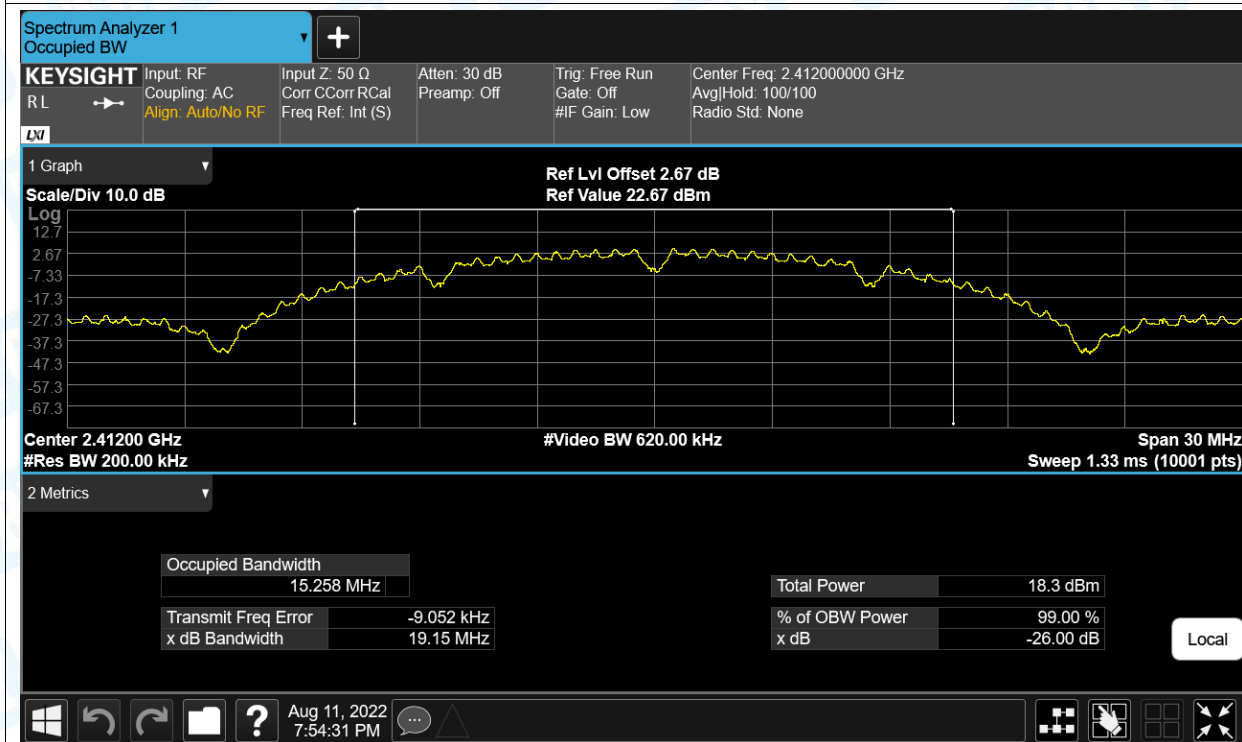


4. Occupied Channel Bandwidth

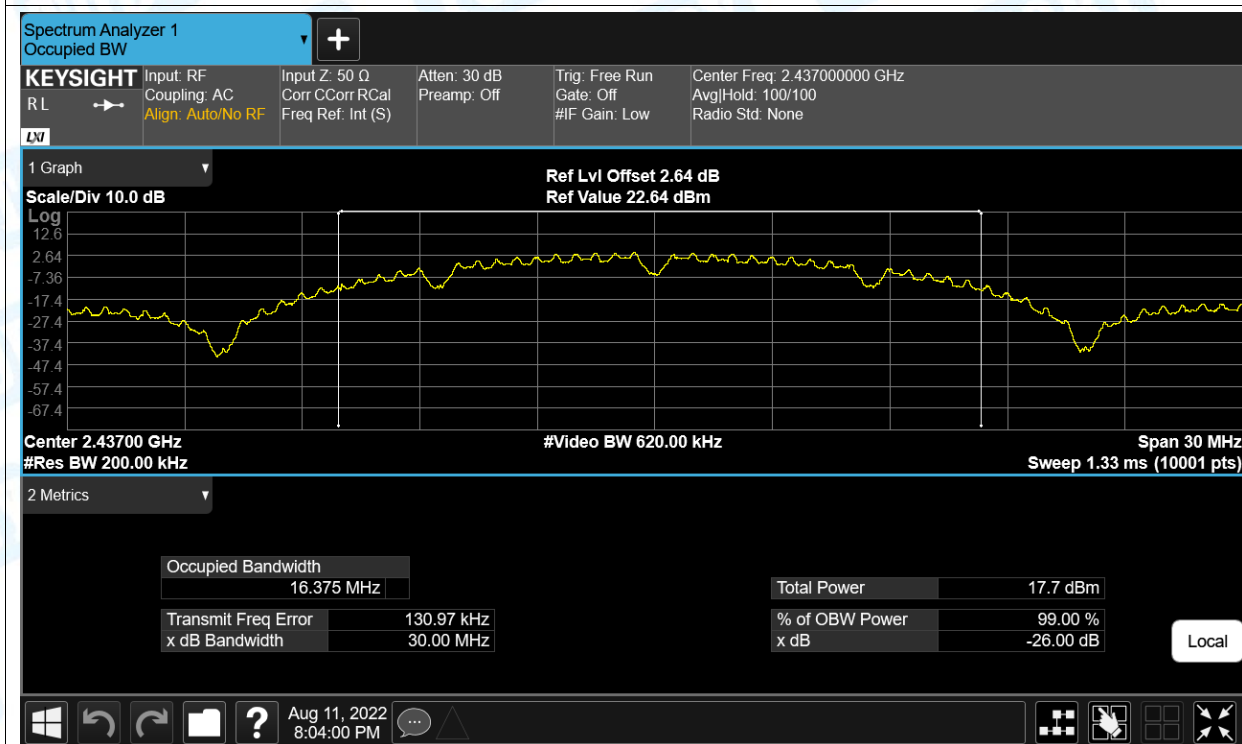
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	15.258
NVNT	b	2437	Ant1	16.375
NVNT	b	2462	Ant1	15.745
NVNT	g	2412	Ant1	16.621
NVNT	g	2437	Ant1	16.793
NVNT	g	2462	Ant1	16.594

Test Graphs

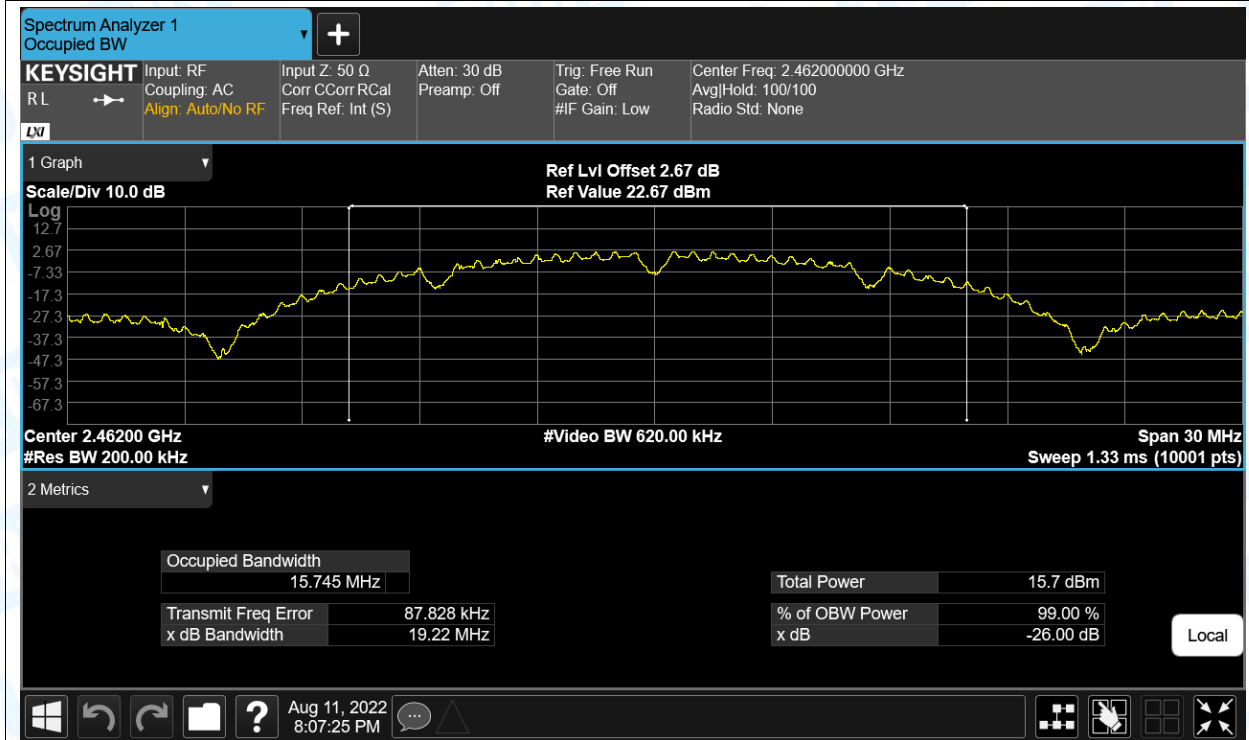
OBW NVNT b 2412MHz Ant1



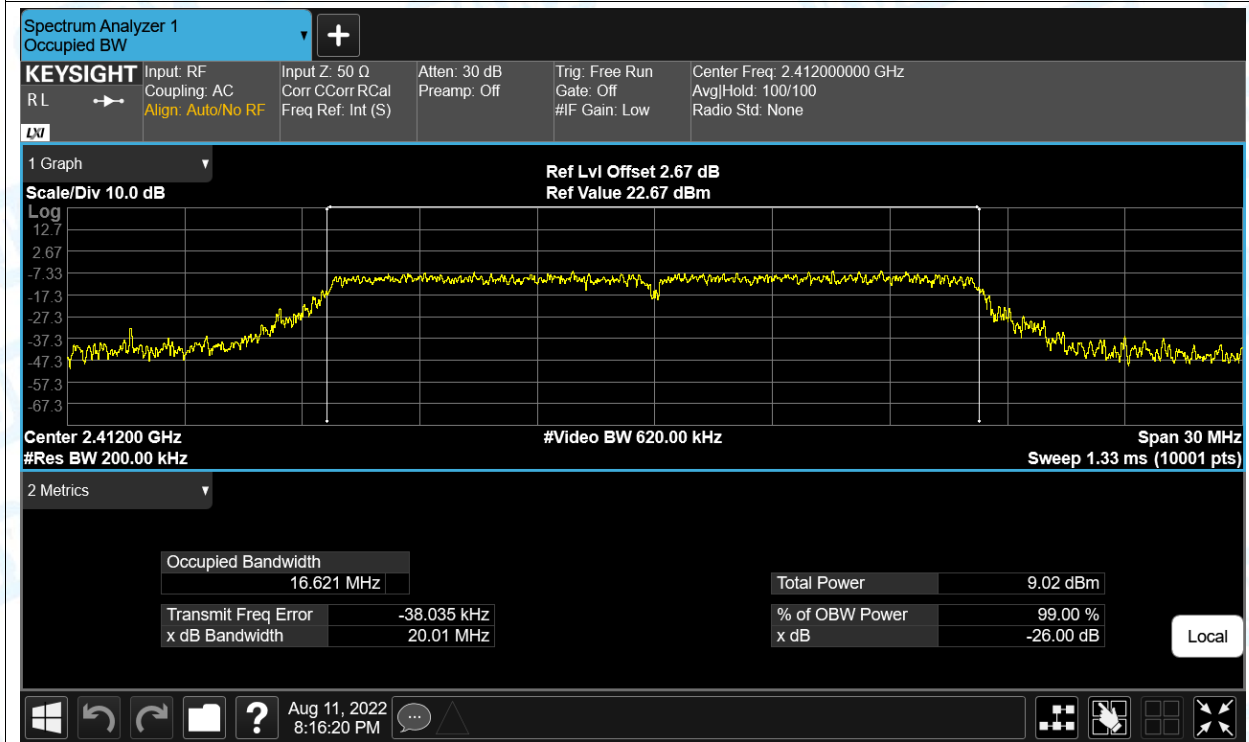
OBW NVNT b 2437MHz Ant1



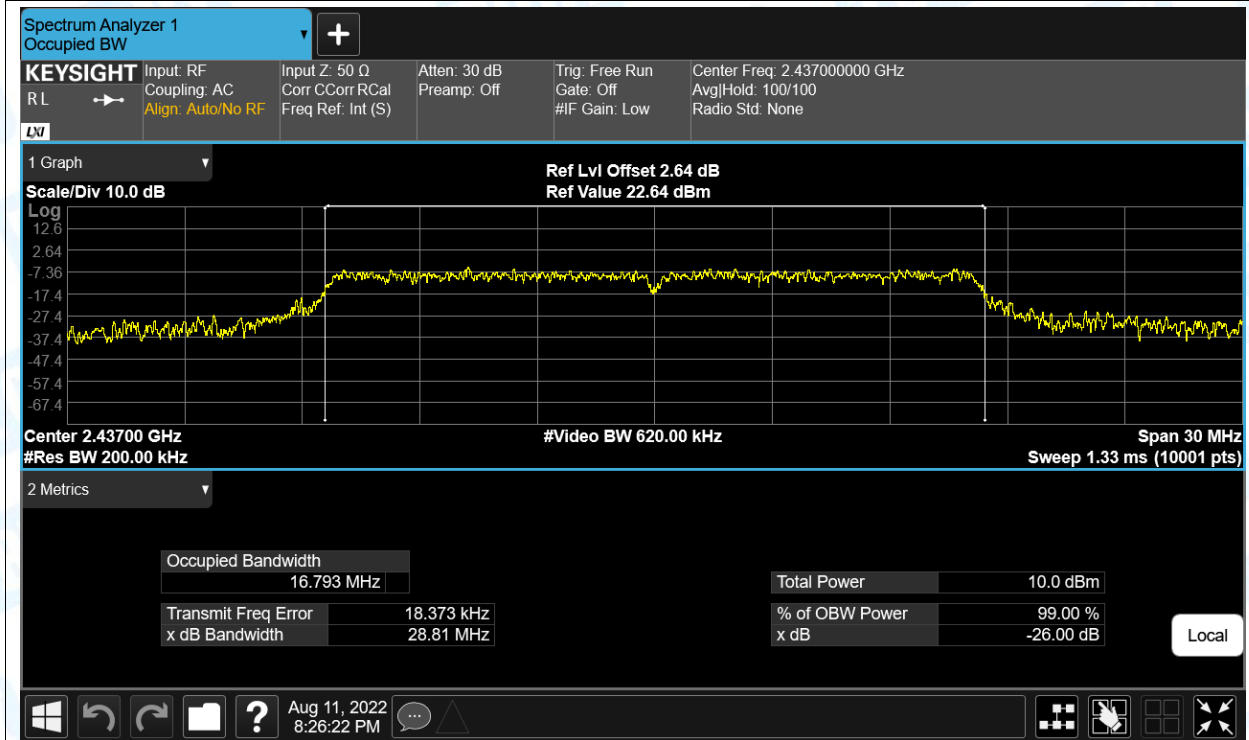
OBW NVNT b 2462MHz Ant1



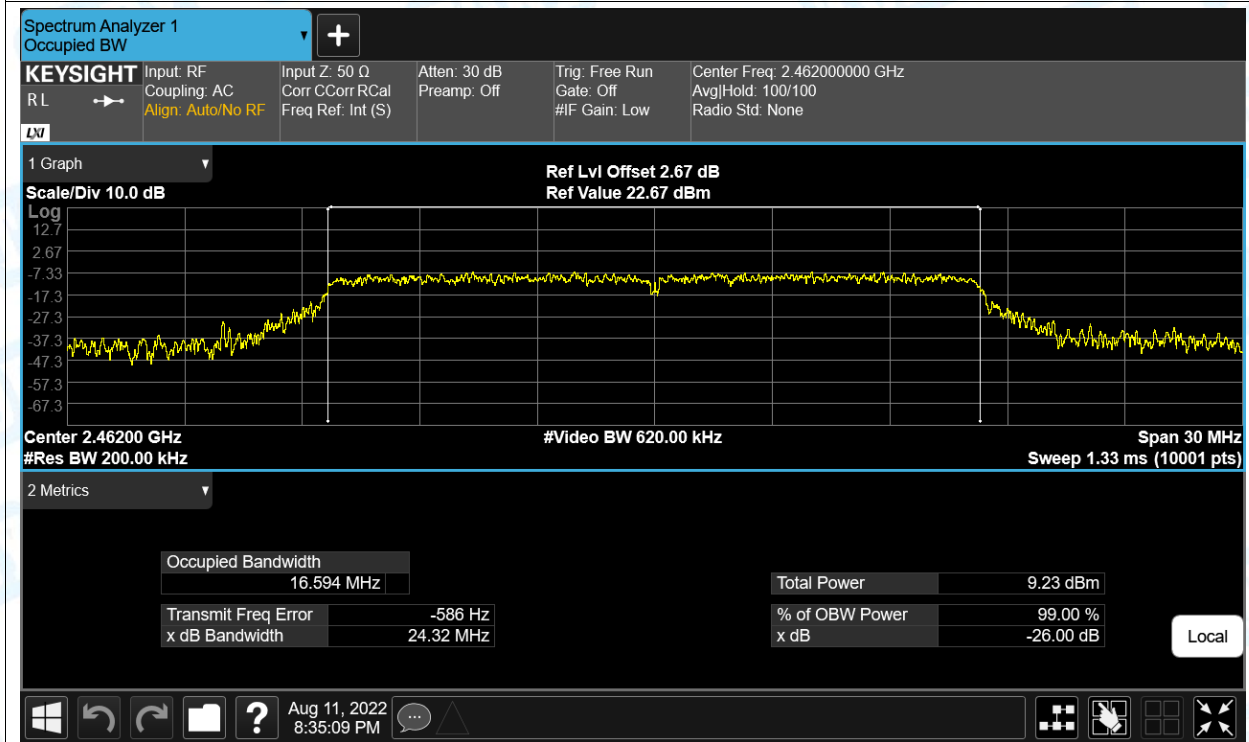
OBW NVNT g 2412MHz Ant1



OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1

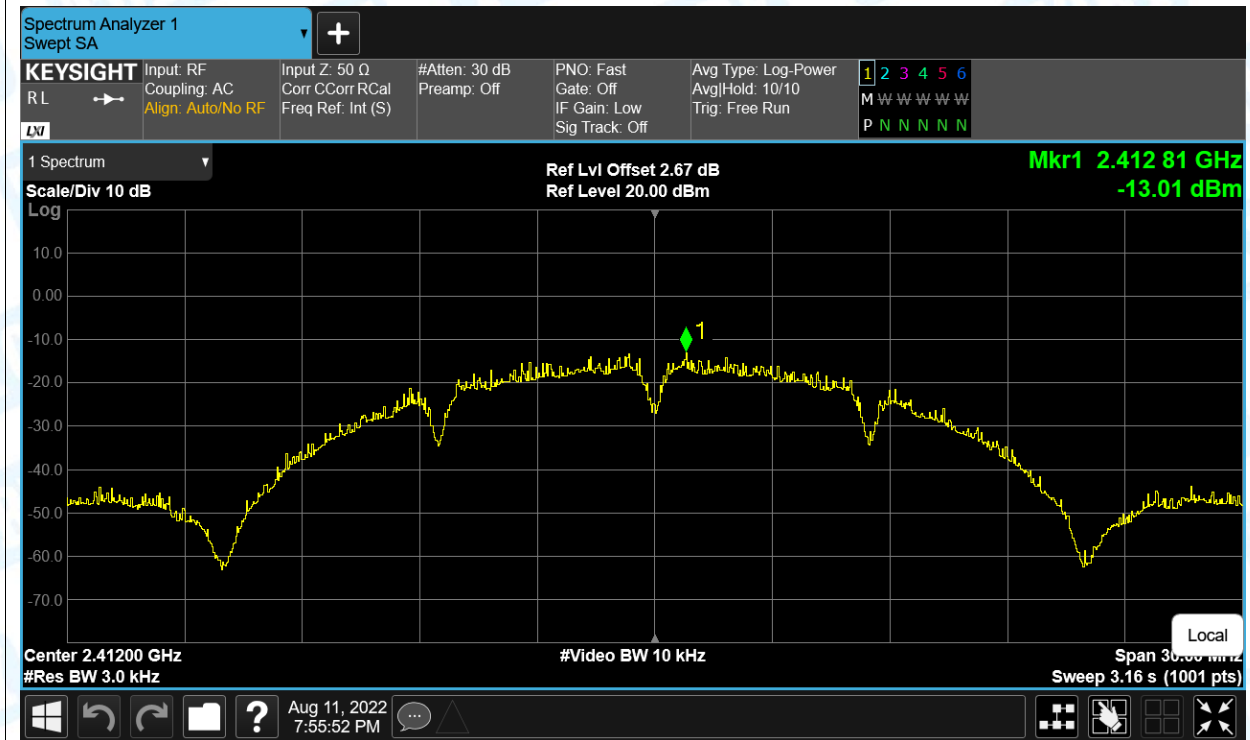


5. Maximum Power Spectral Density Level

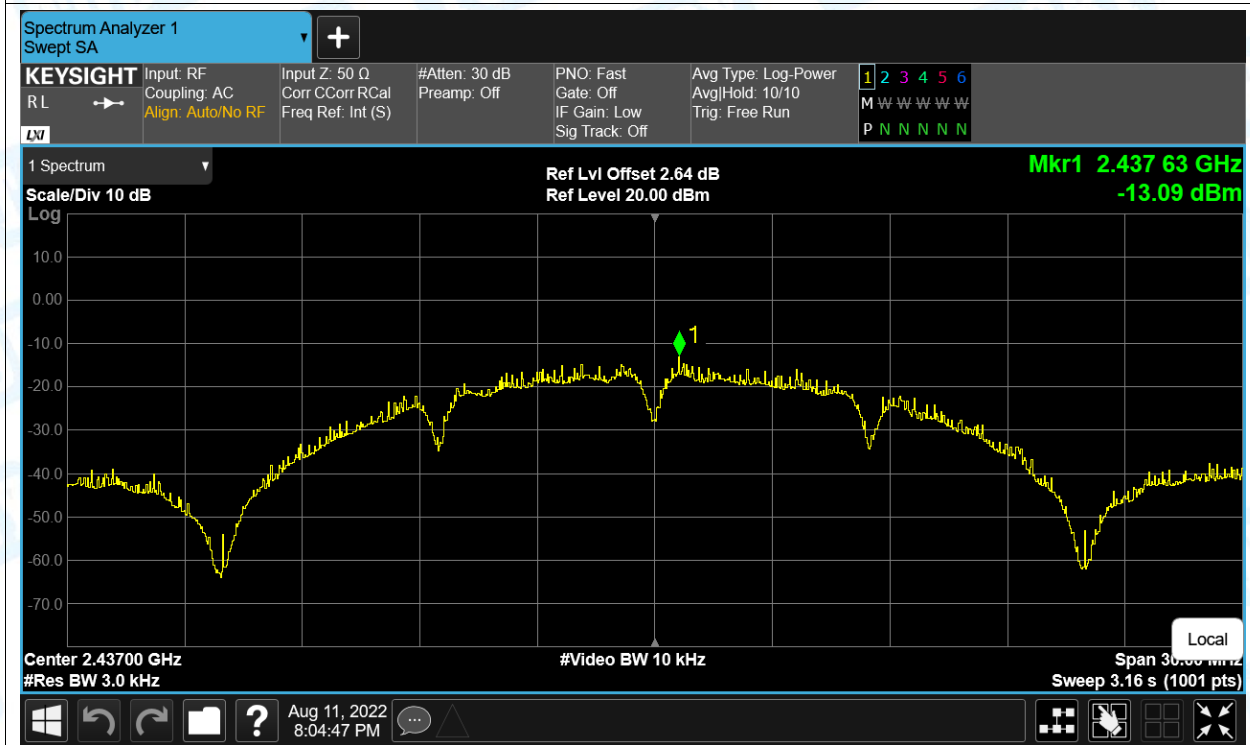
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-13.009	8	Pass
NVNT	b	2437	Ant1	-13.091	8	Pass
NVNT	b	2462	Ant1	-16.14	8	Pass
NVNT	g	2412	Ant1	-22.982	8	Pass
NVNT	g	2437	Ant1	-21.915	8	Pass
NVNT	g	2462	Ant1	-22.409	8	Pass

Test Graphs

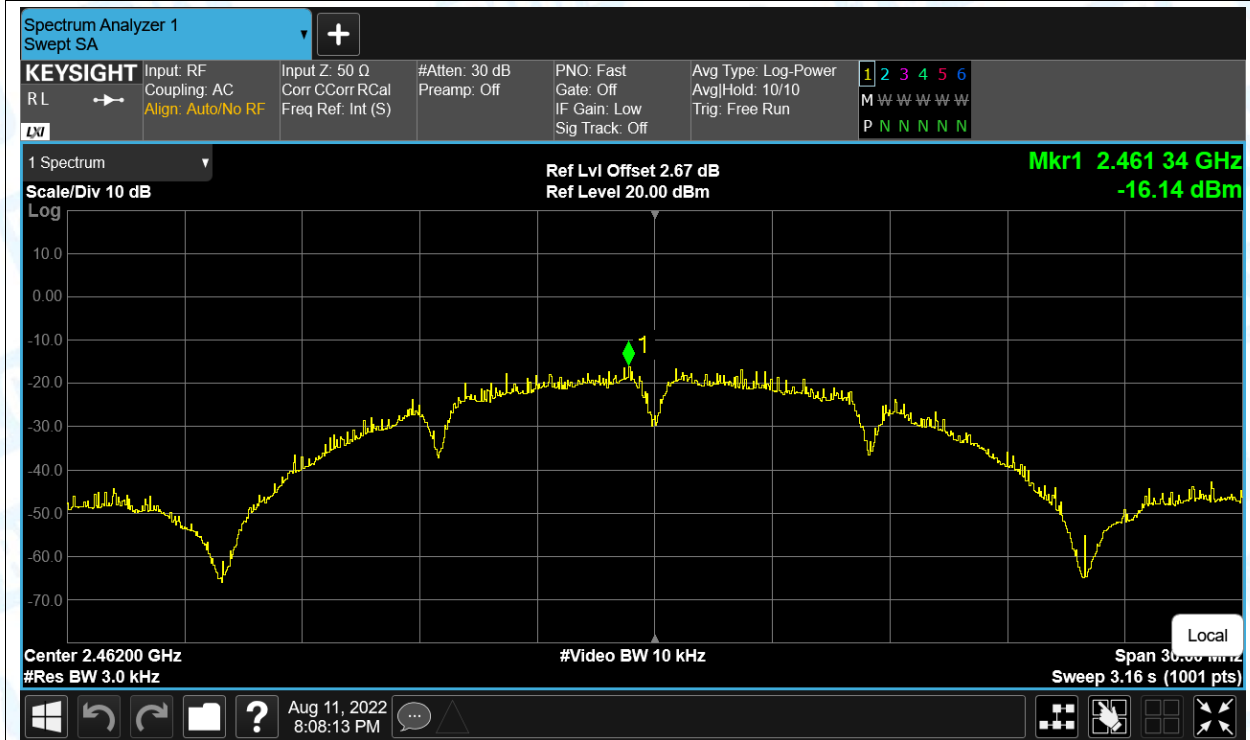
PSD NVNT b 2412MHz Ant1



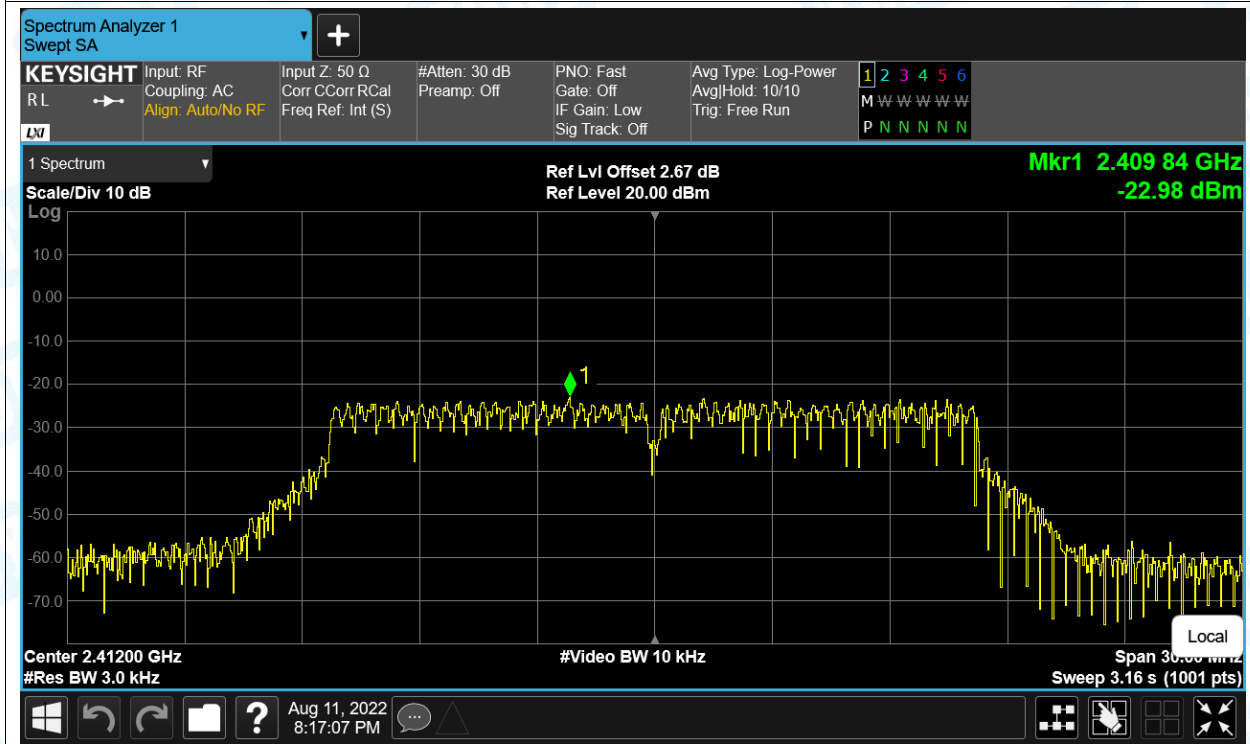
PSD NVNT b 2437MHz Ant1

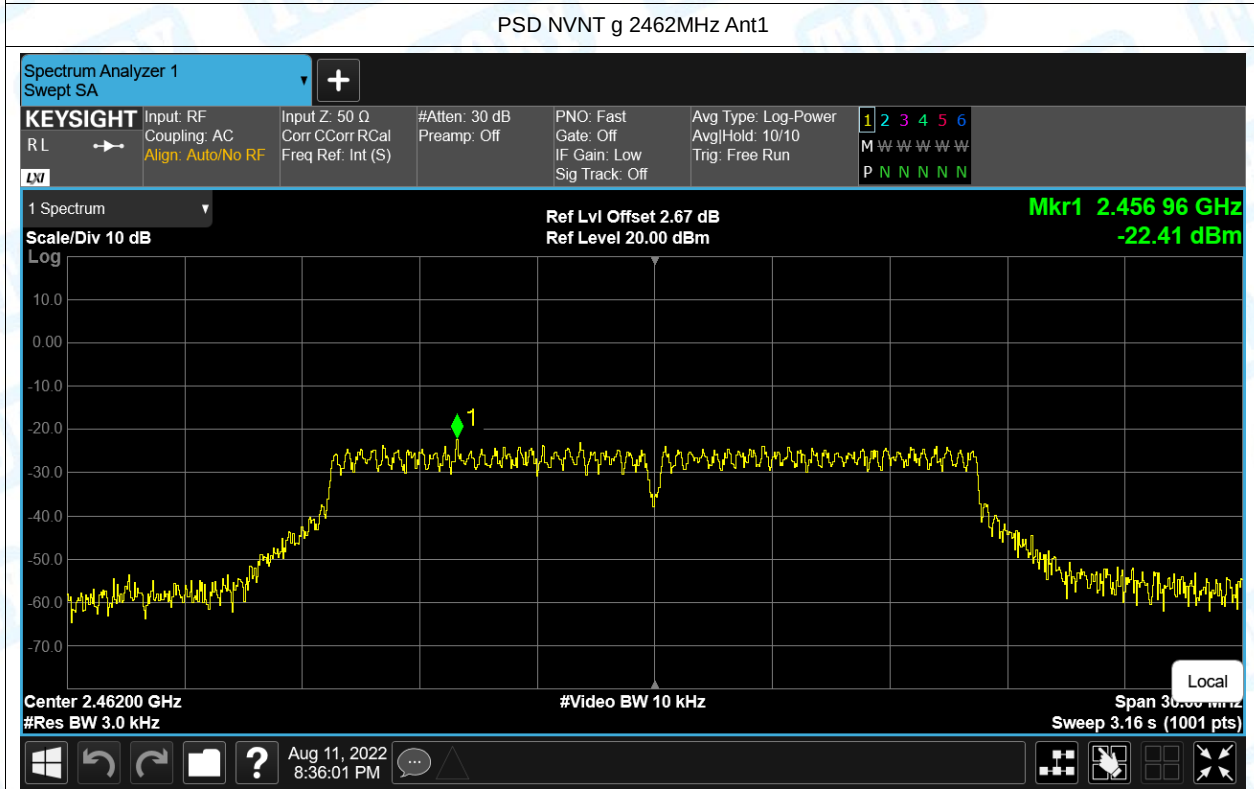
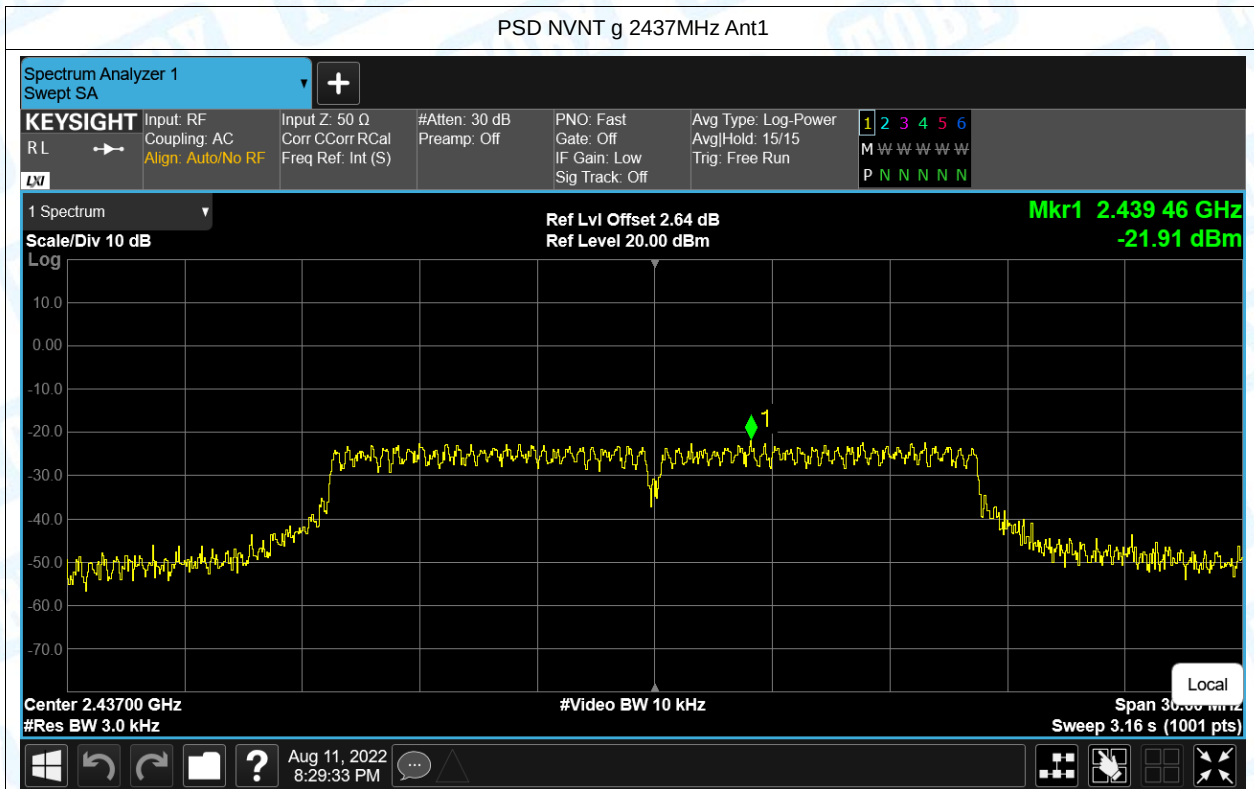


PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1

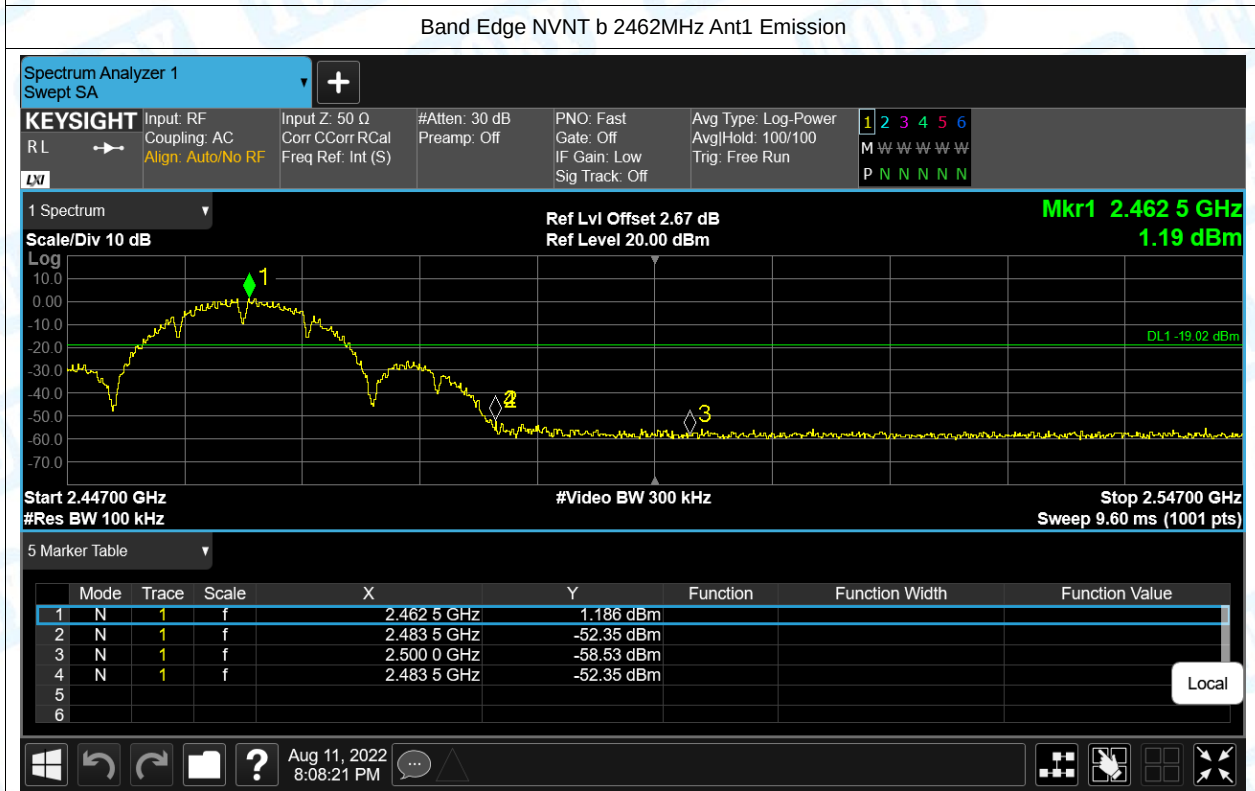
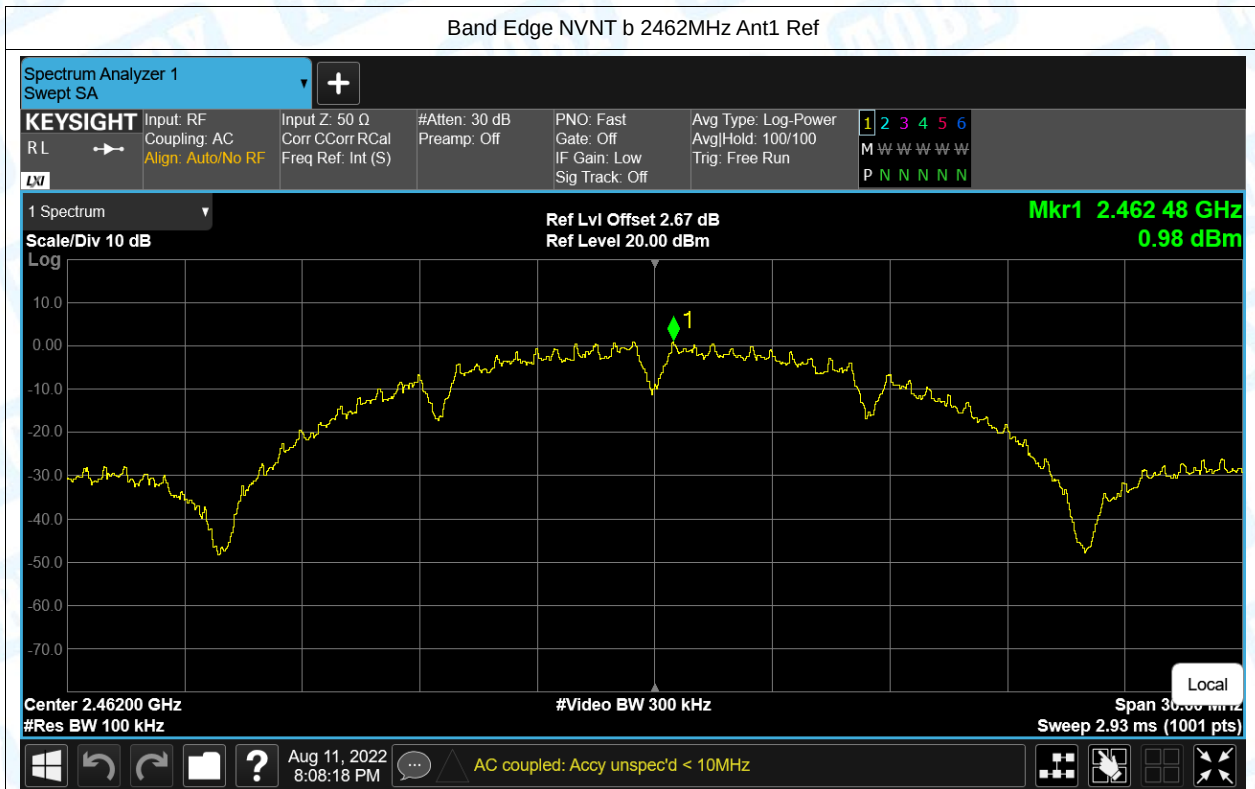


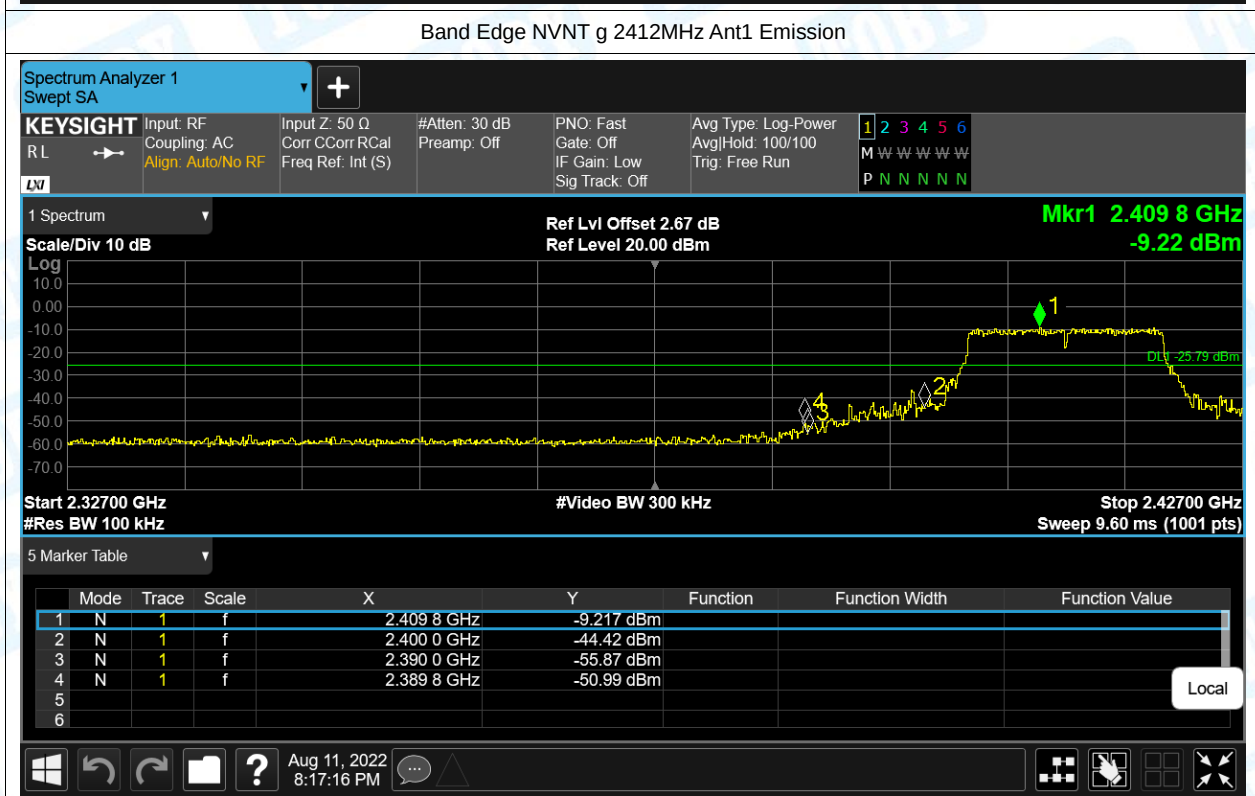
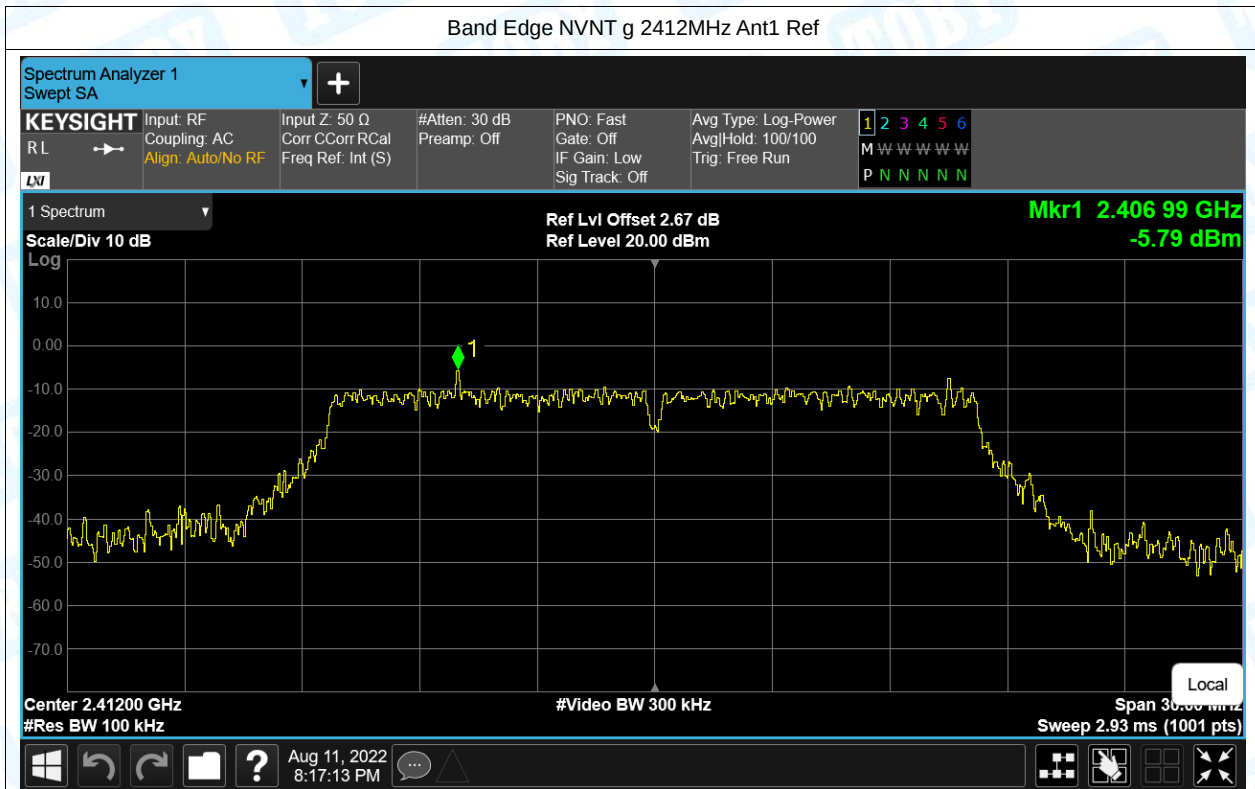


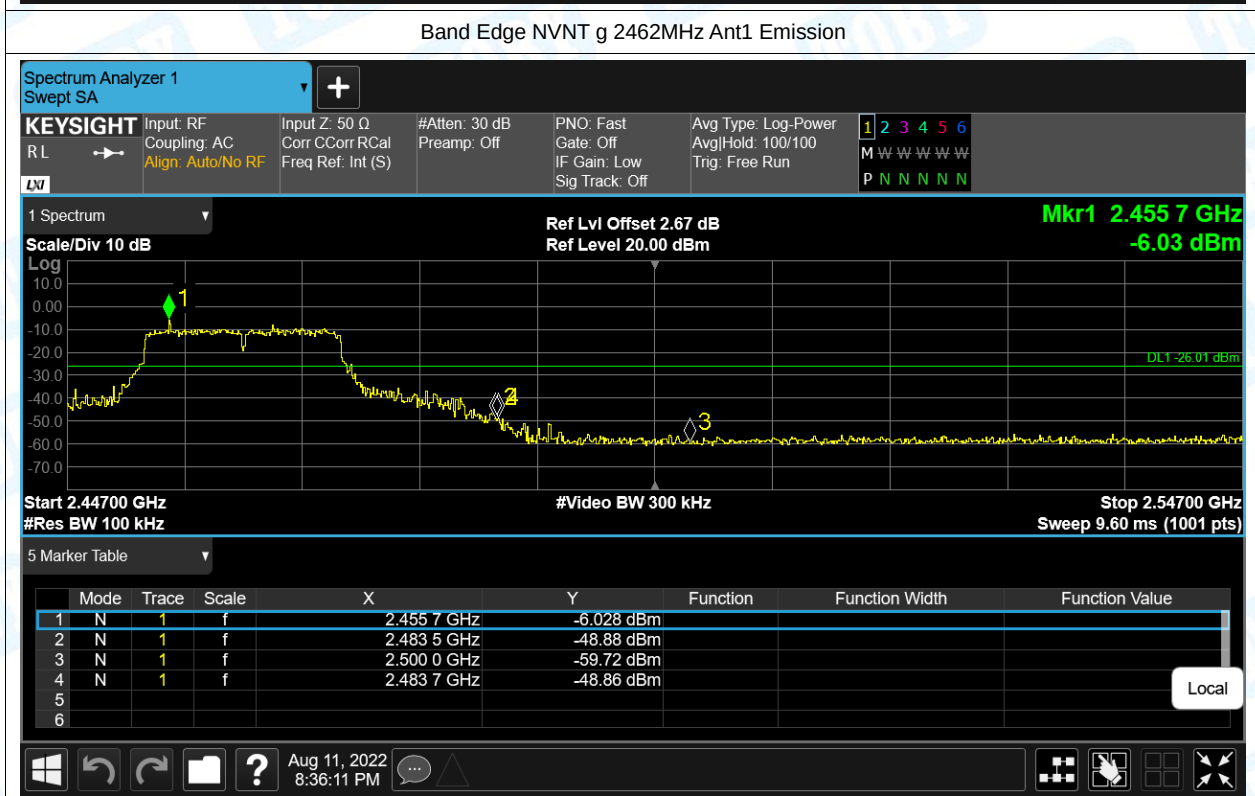
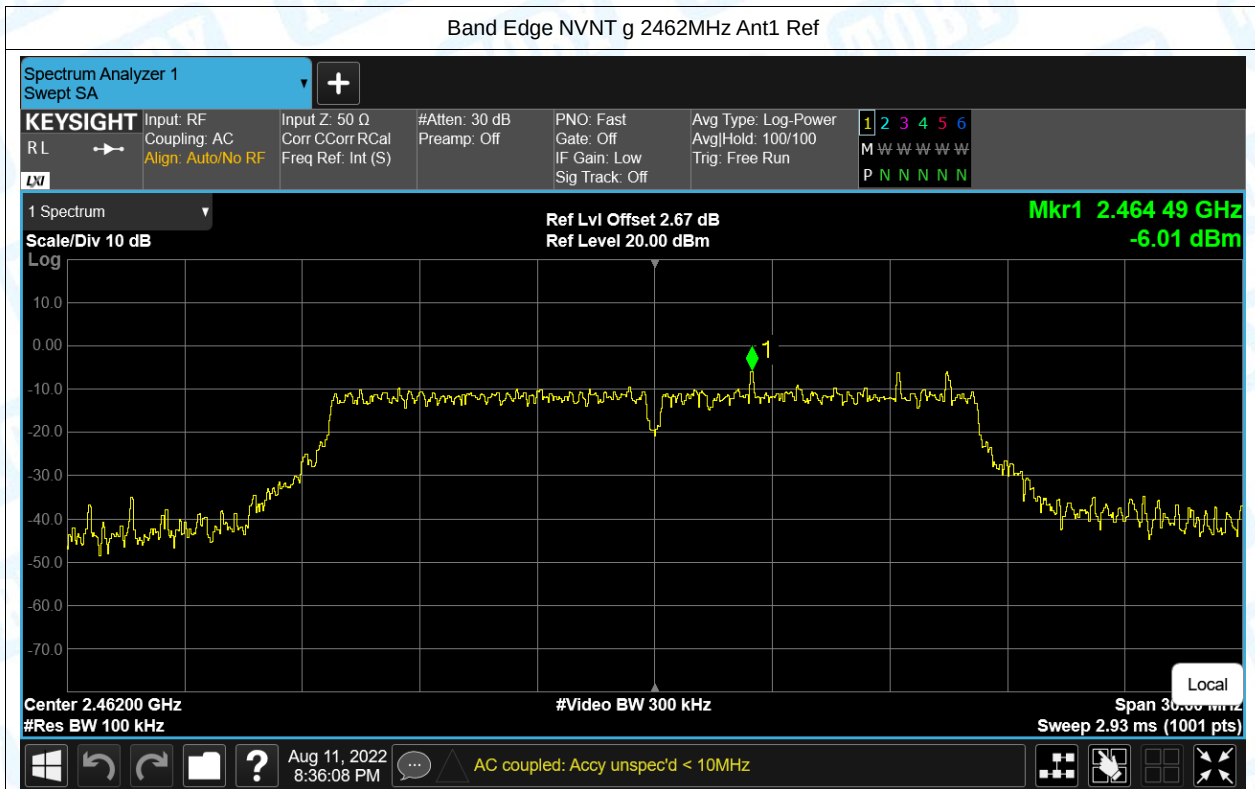
6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.25	-20	Pass
NVNT	b	2462	Ant1	-53.33	-20	Pass
NVNT	g	2412	Ant1	-45.2	-20	Pass
NVNT	g	2462	Ant1	-42.85	-20	Pass



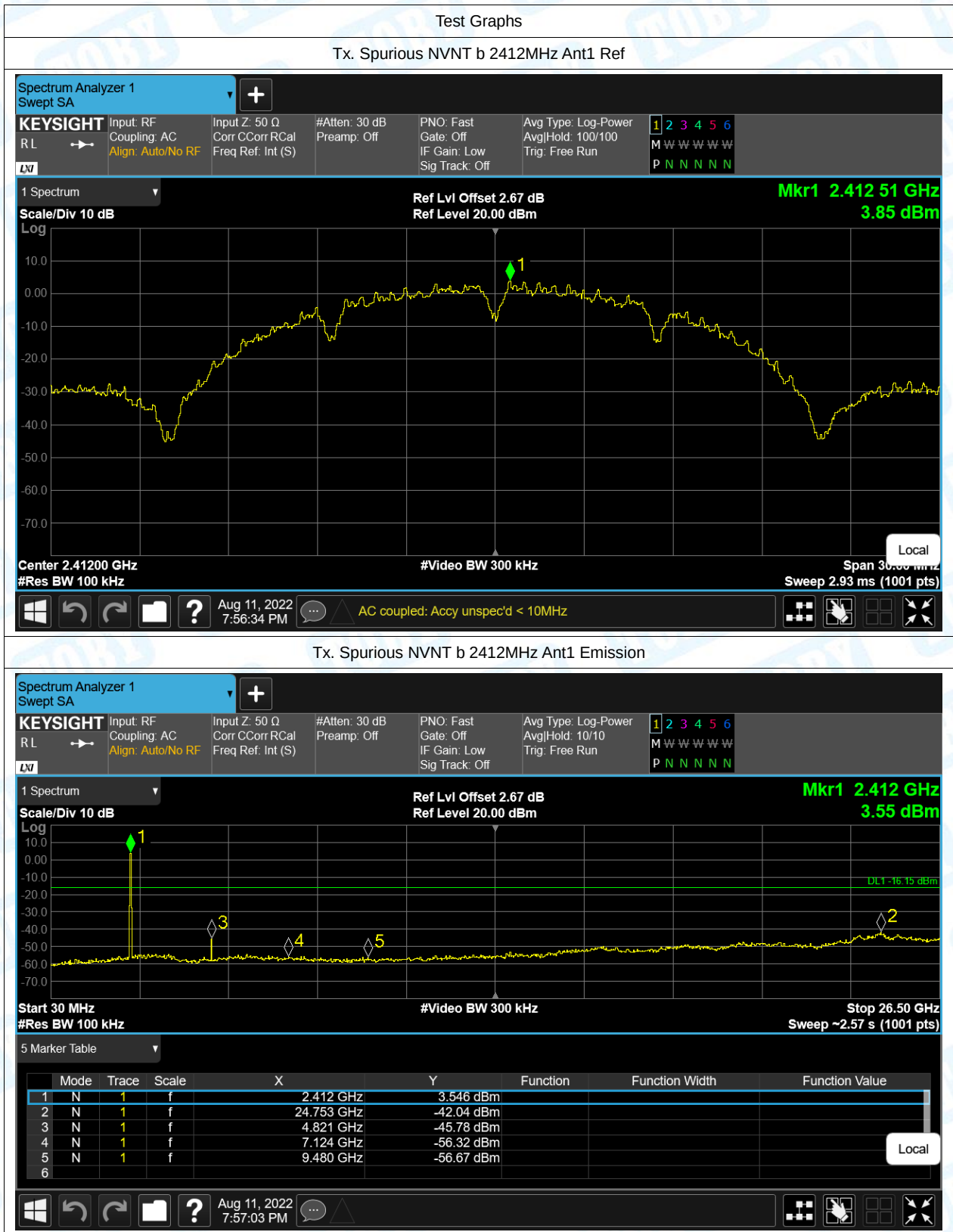


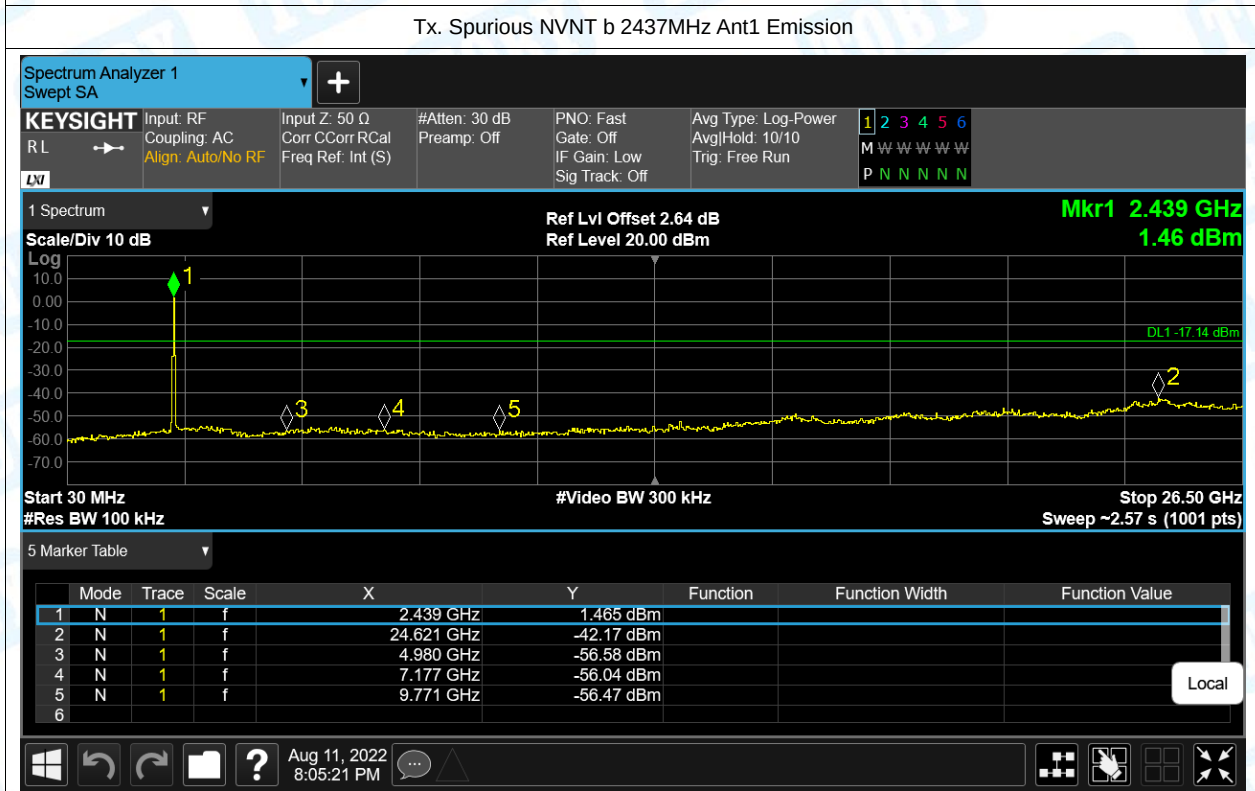
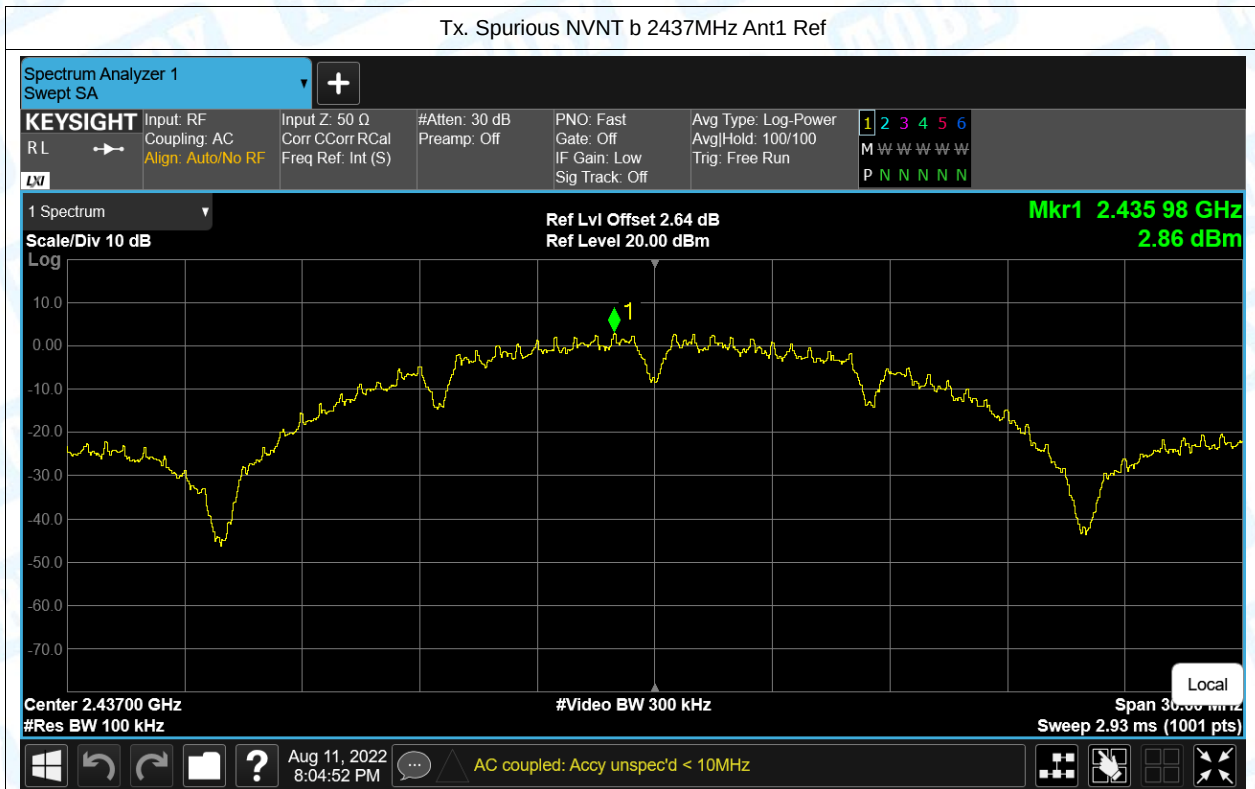


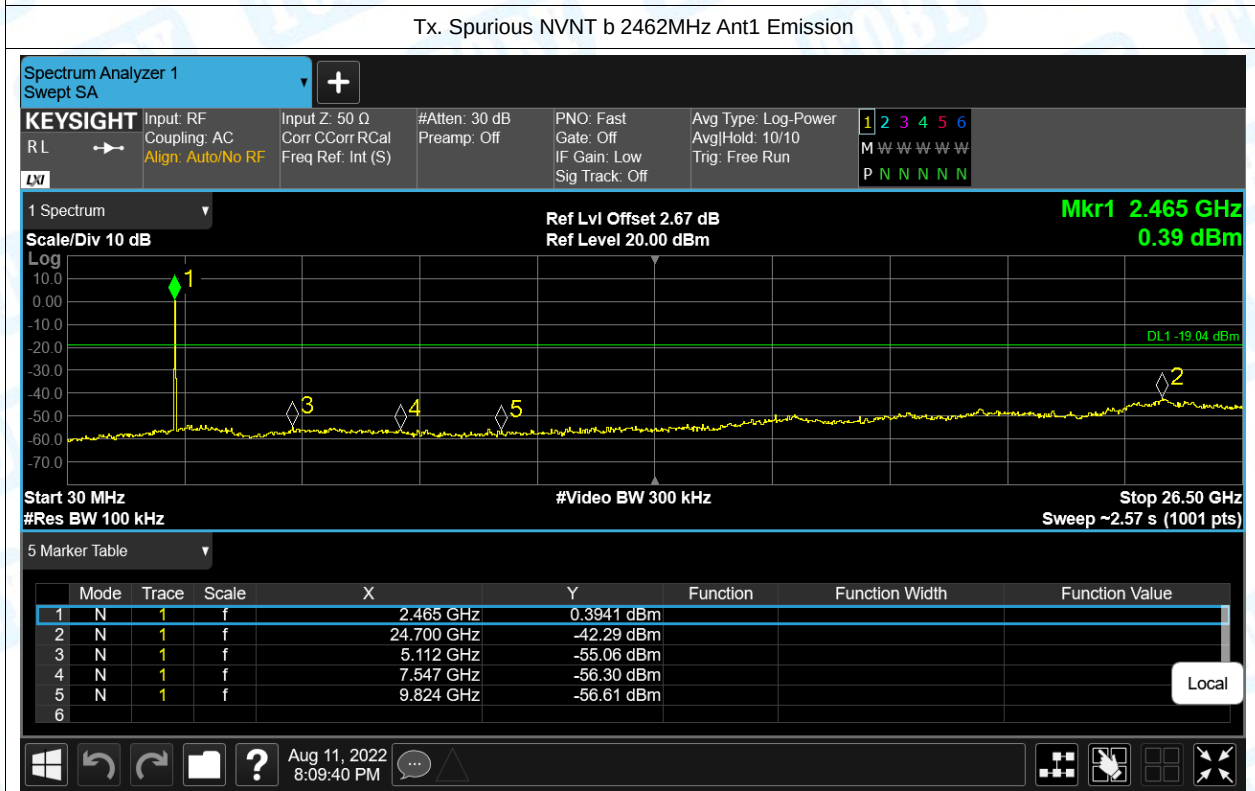
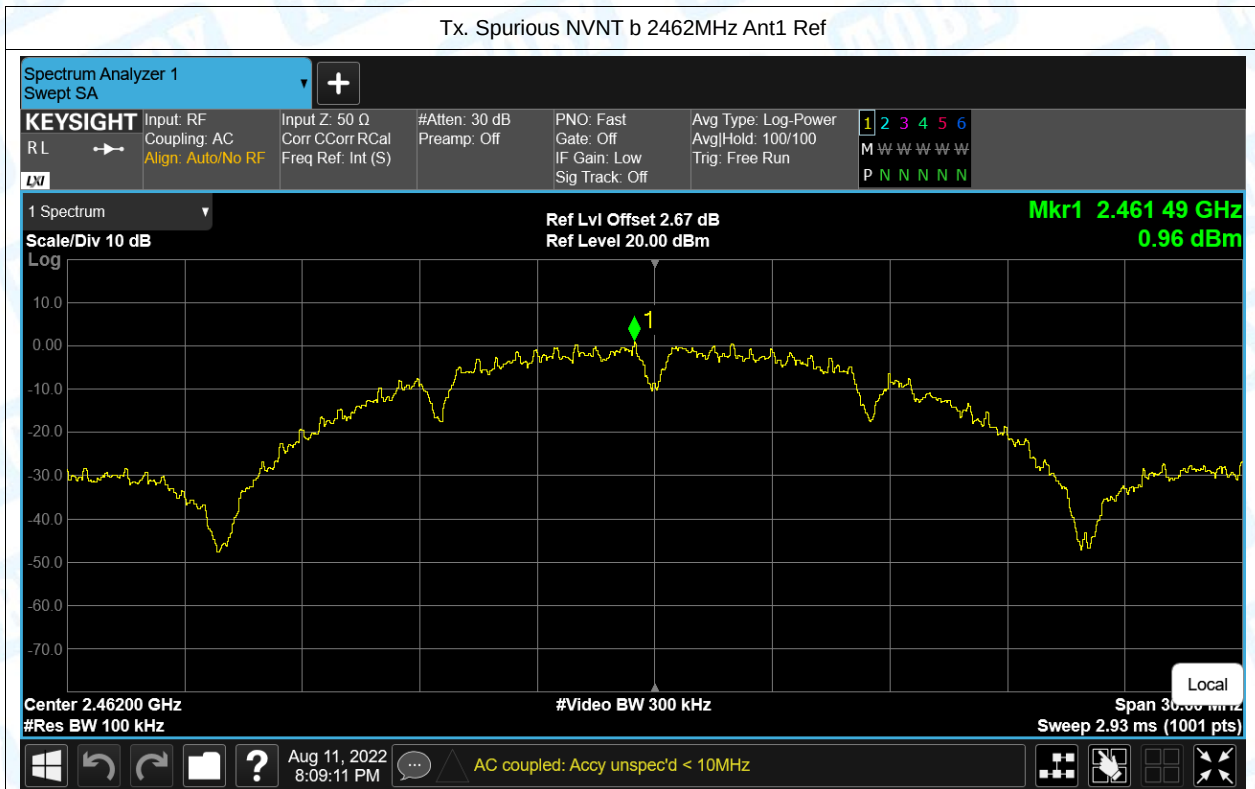


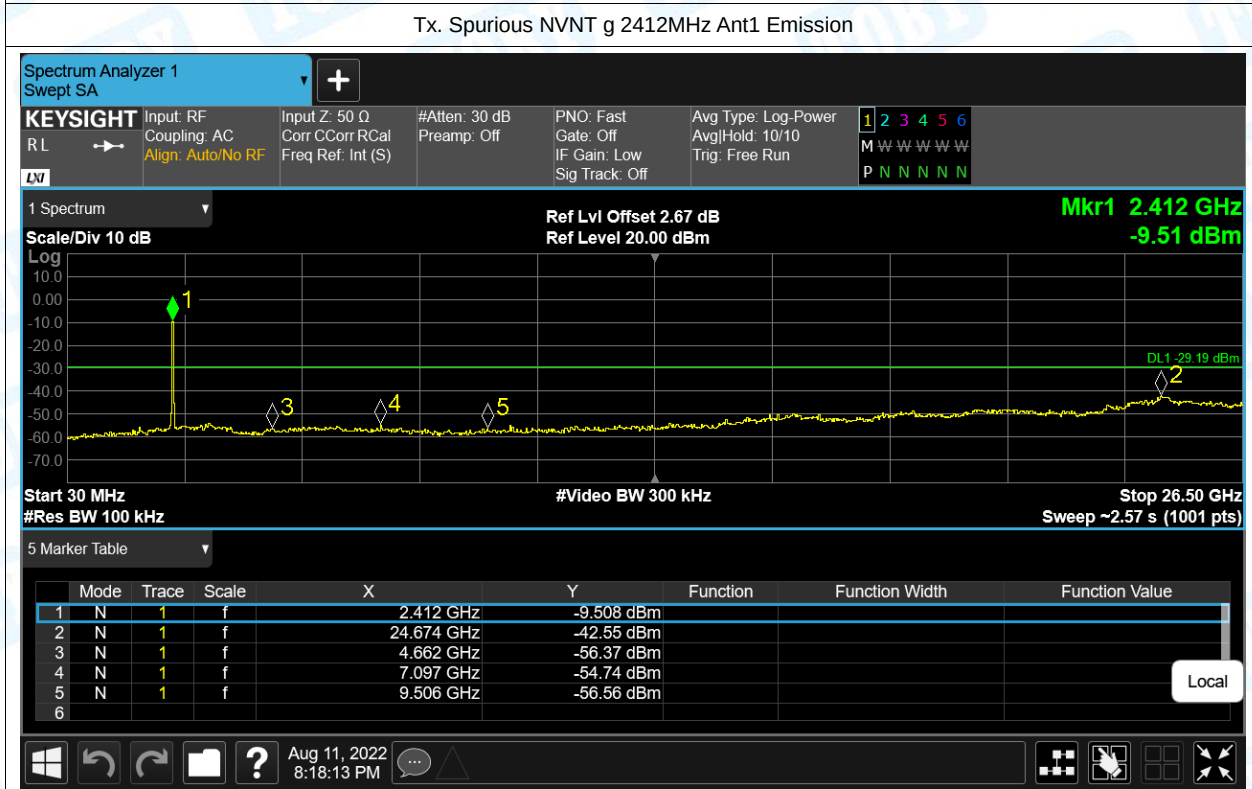
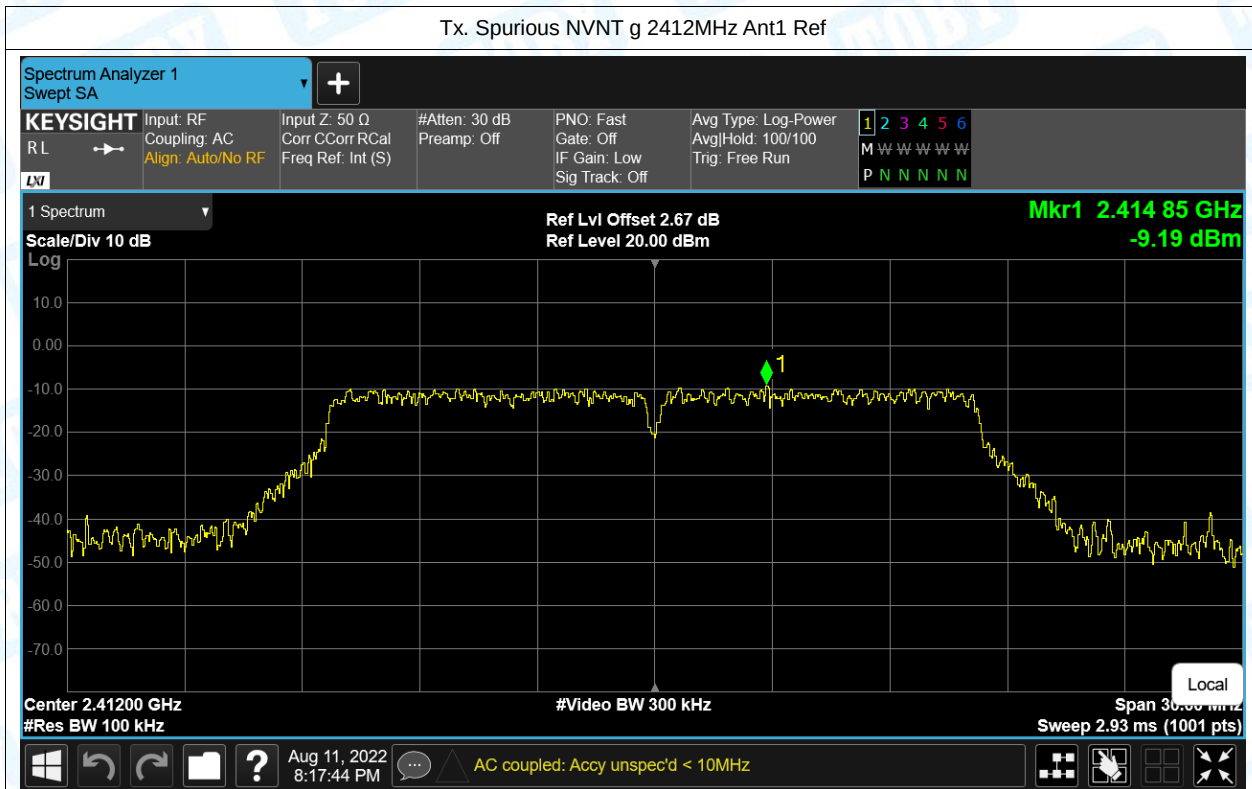
7. Conducted RF Spurious Emission

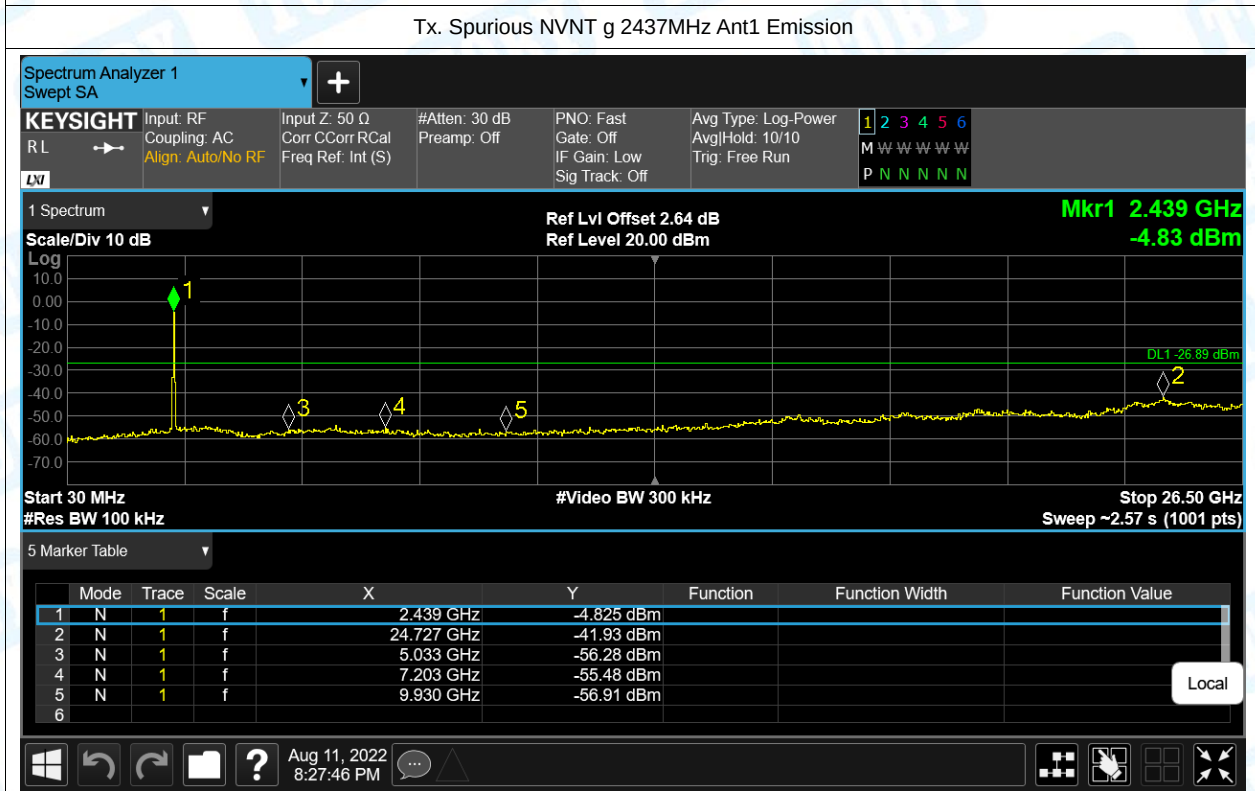
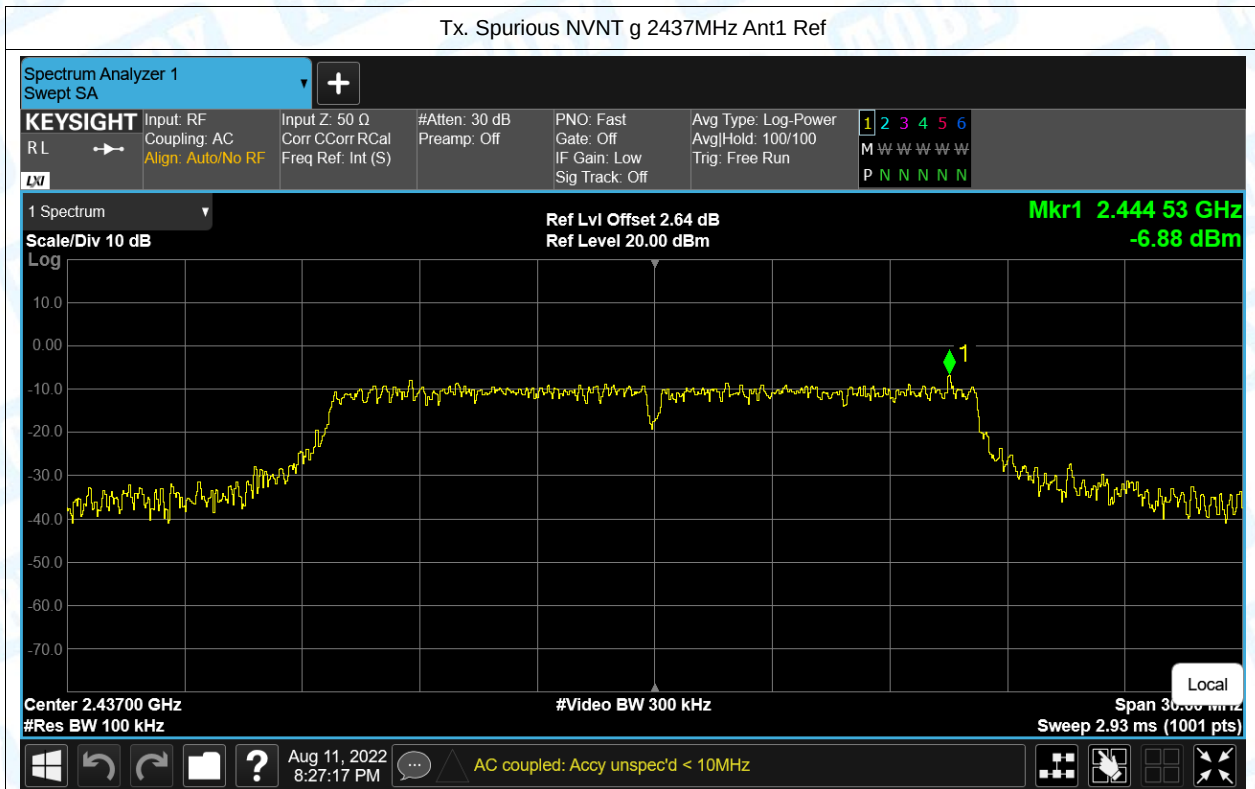
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.89	-20	Pass
NVNT	b	2437	Ant1	-45.03	-20	Pass
NVNT	b	2462	Ant1	-43.25	-20	Pass
NVNT	g	2412	Ant1	-33.36	-20	Pass
NVNT	g	2437	Ant1	-35.05	-20	Pass
NVNT	g	2462	Ant1	-32.24	-20	Pass

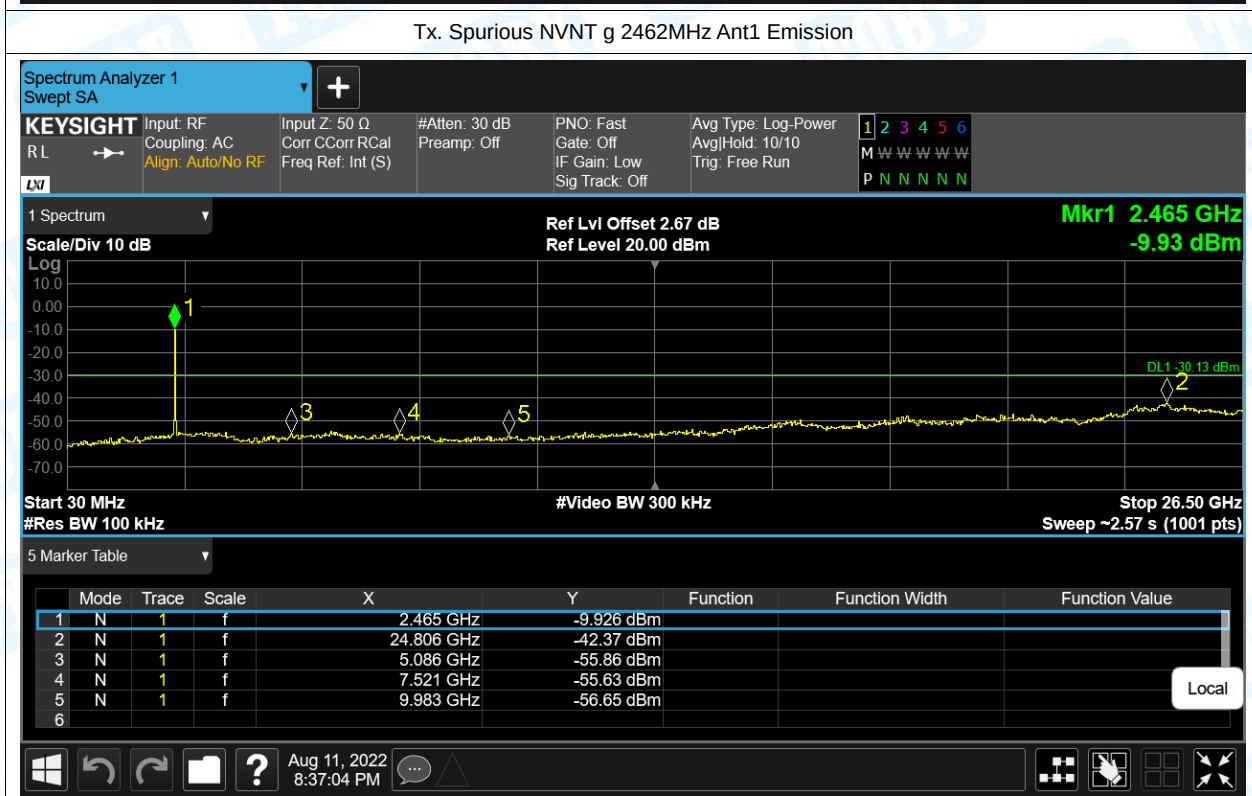
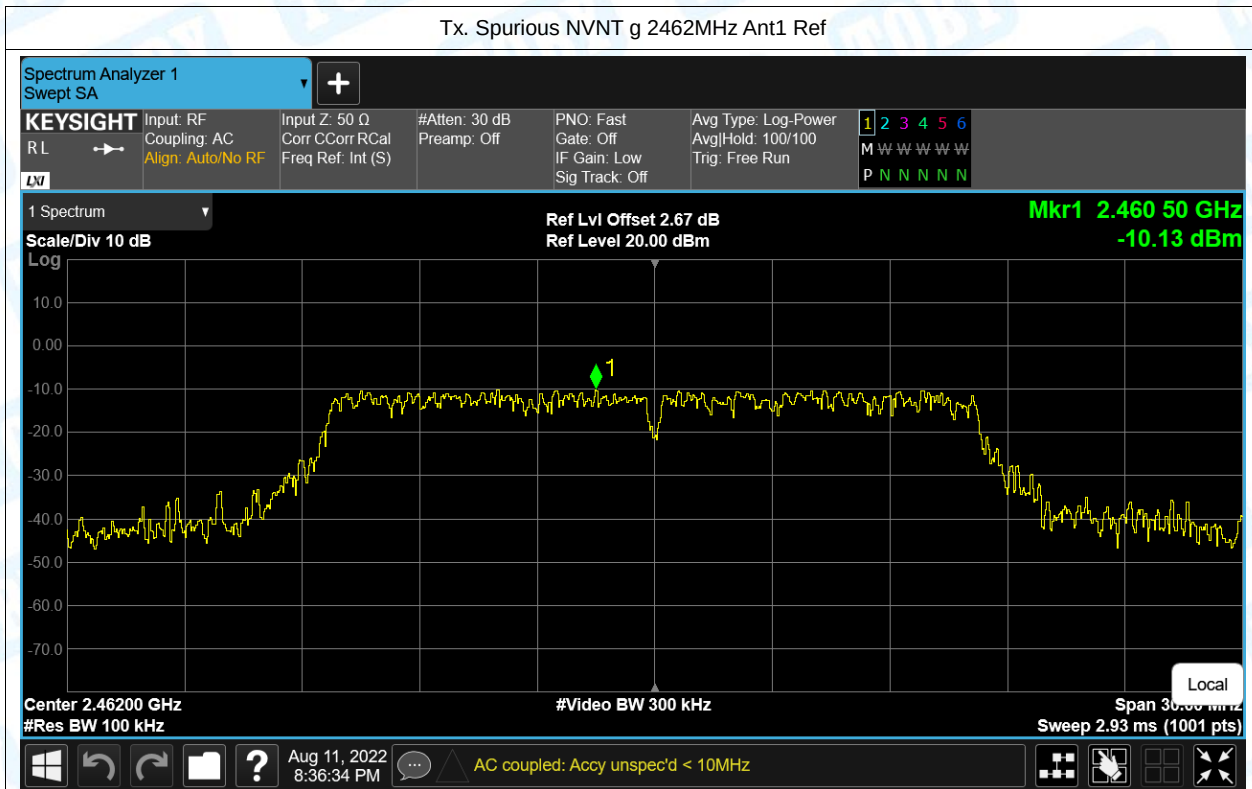






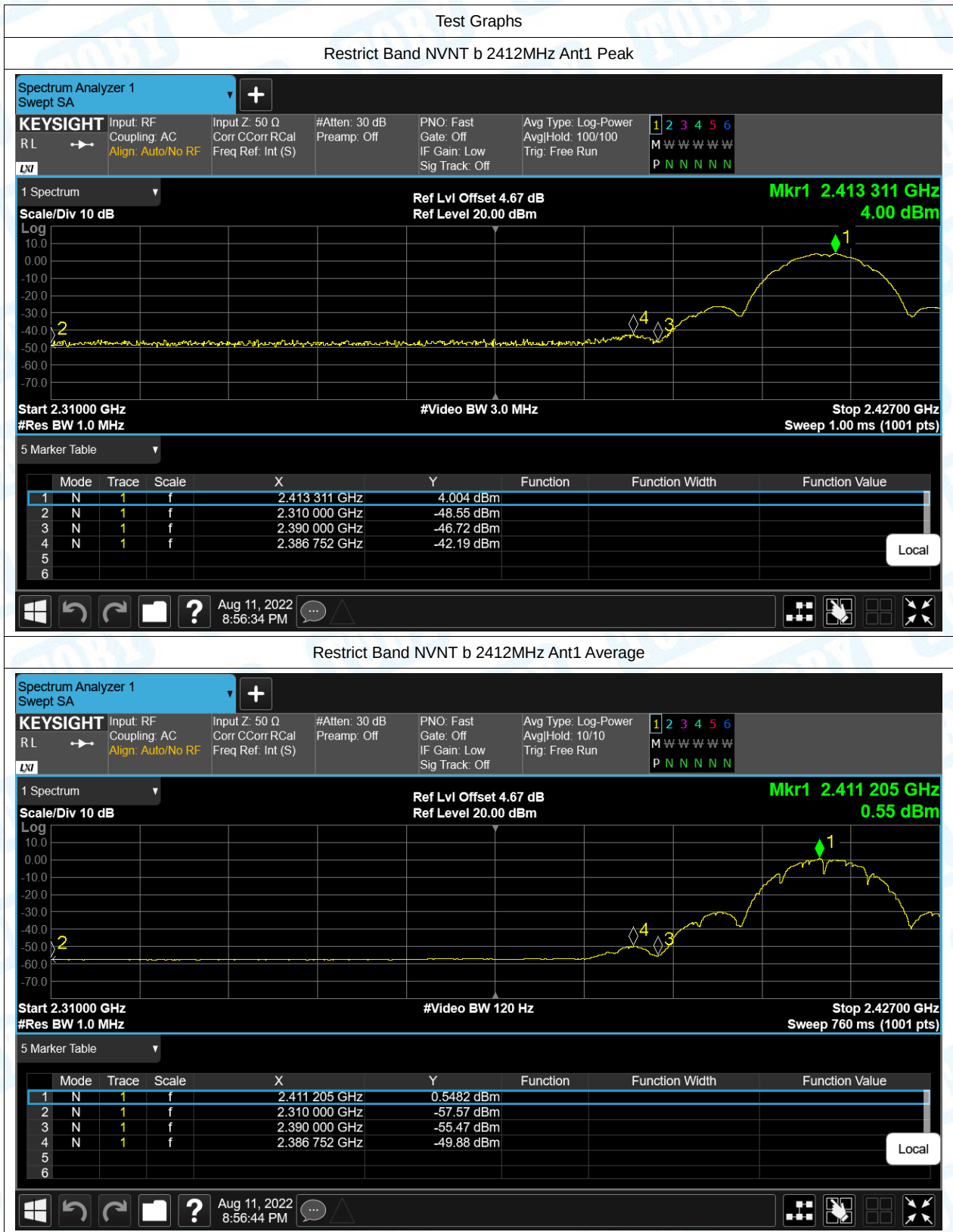




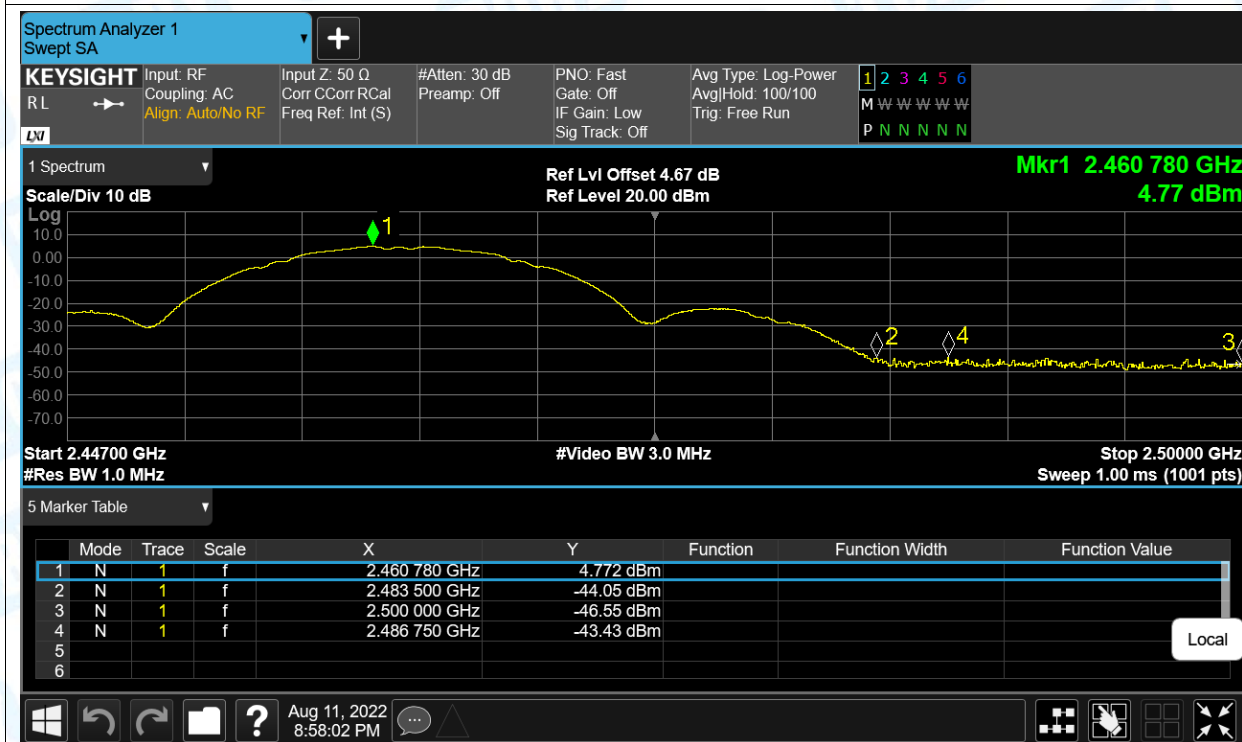


8. Restrict Band

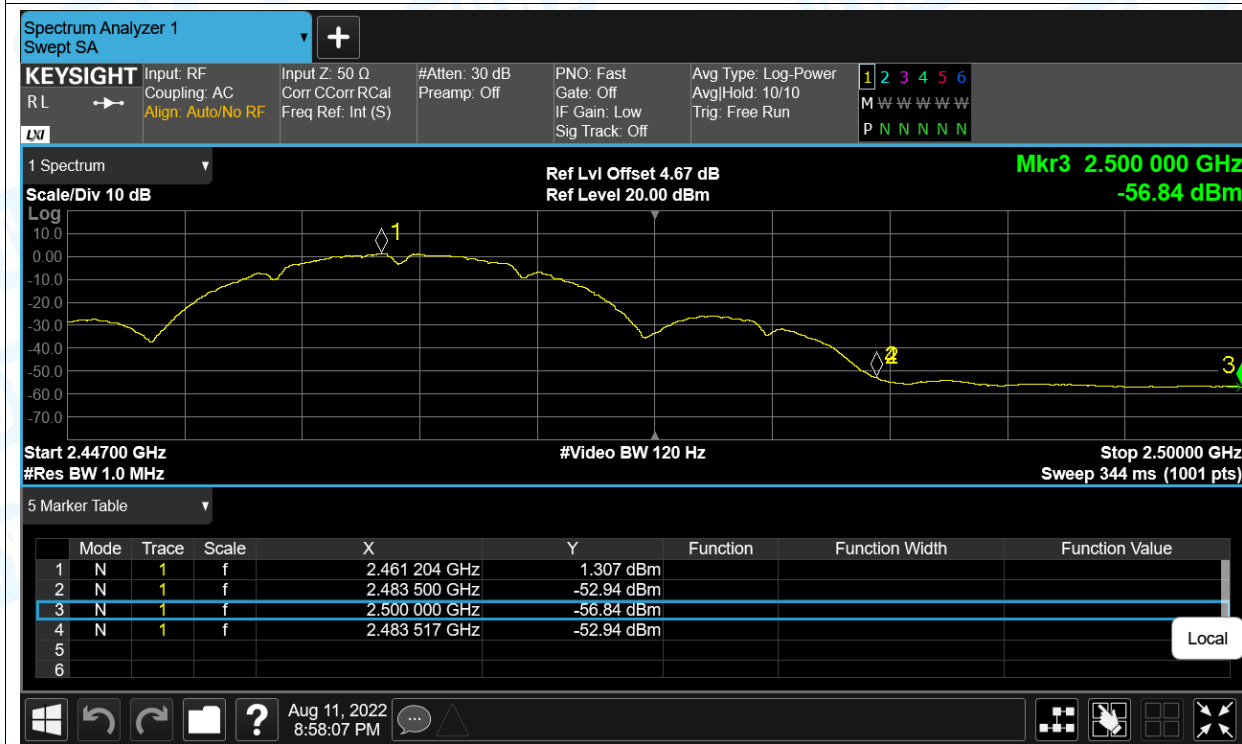
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-48.55	2	48.71	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-57.57	2	39.69	Average	54	Pass
NVNT	b	2412	Ant1	2386.752	-42.19	2	55.07	Peak	74	Pass
NVNT	b	2412	Ant1	2386.752	-49.88	2	47.38	Average	54	Pass
NVNT	b	2412	Ant1	2390	-46.72	2	50.54	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-55.47	2	41.79	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-44.05	2	53.21	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-52.94	2	44.32	Average	54	Pass
NVNT	b	2462	Ant1	2486.75	-43.43	2	53.83	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-52.94	2	44.32	Average	54	Pass
NVNT	b	2462	Ant1	2500	-46.55	2	50.71	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-56.84	2	40.42	Average	54	Pass
NVNT	g	2412	Ant1	2310	-47.48	2	49.78	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-56.94	2	40.32	Average	54	Pass
NVNT	g	2412	Ant1	2388.975	-37.61	2	59.65	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-49.63	2	47.63	Average	54	Pass
NVNT	g	2412	Ant1	2390	-43.09	2	54.17	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-49.69	2	47.57	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-33.34	2	63.92	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-45.9	2	51.36	Average	54	Pass
NVNT	g	2462	Ant1	2484.471	-28.42	2	68.84	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-45.9	2	51.36	Average	54	Pass
NVNT	g	2462	Ant1	2500	-48.26	2	49	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-55.74	2	41.52	Average	54	Pass

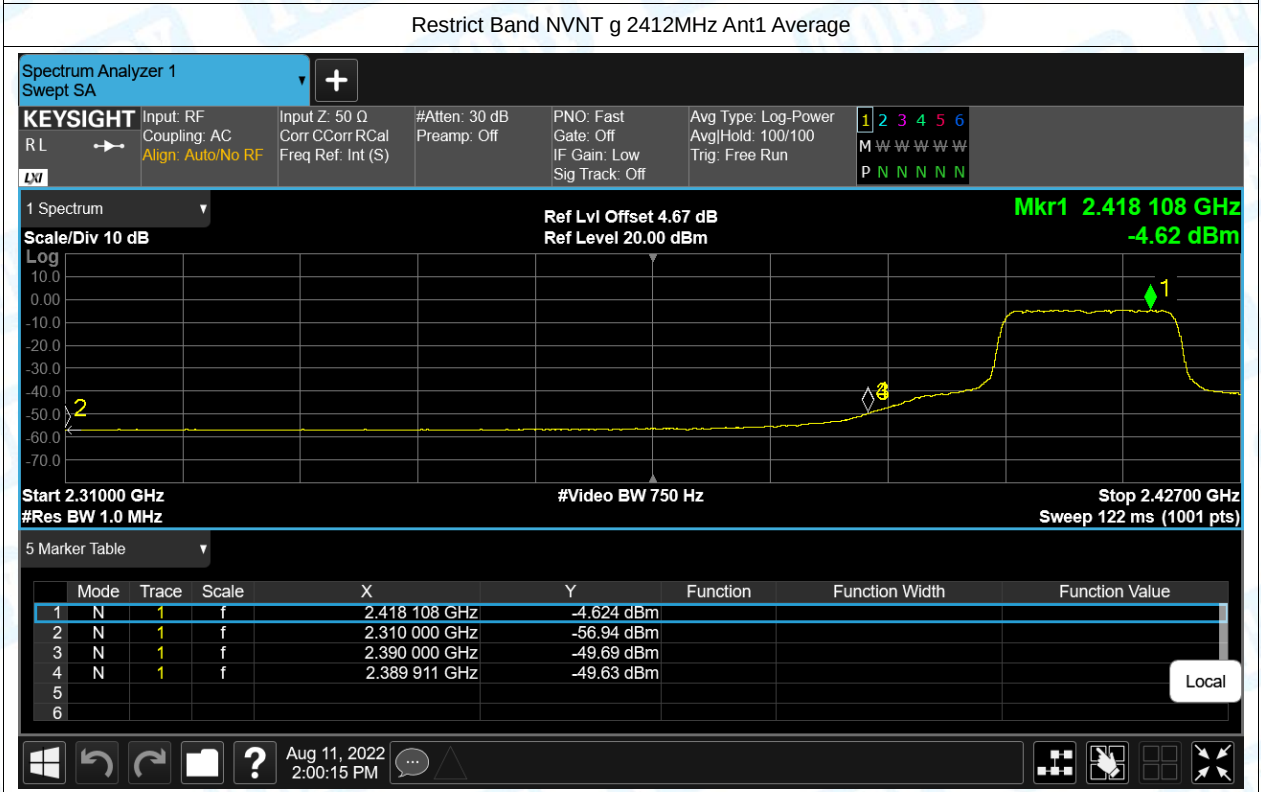
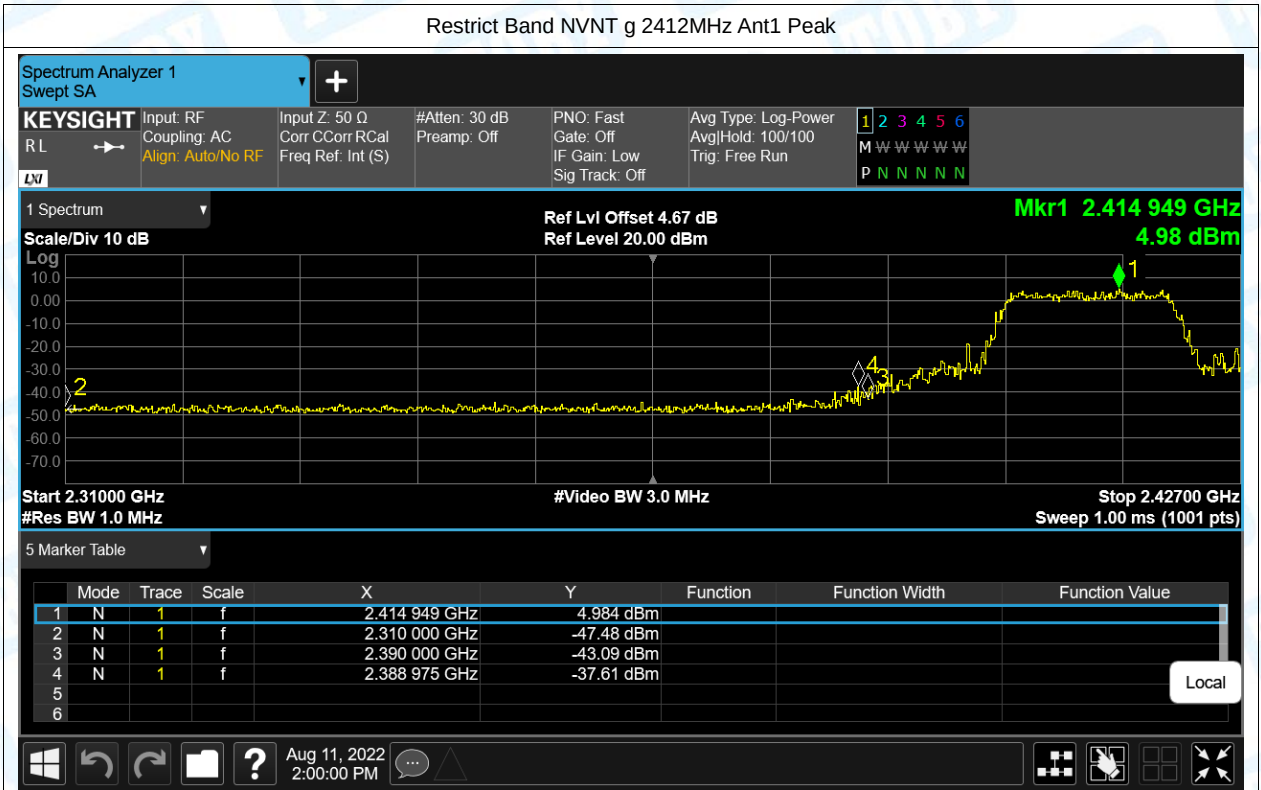


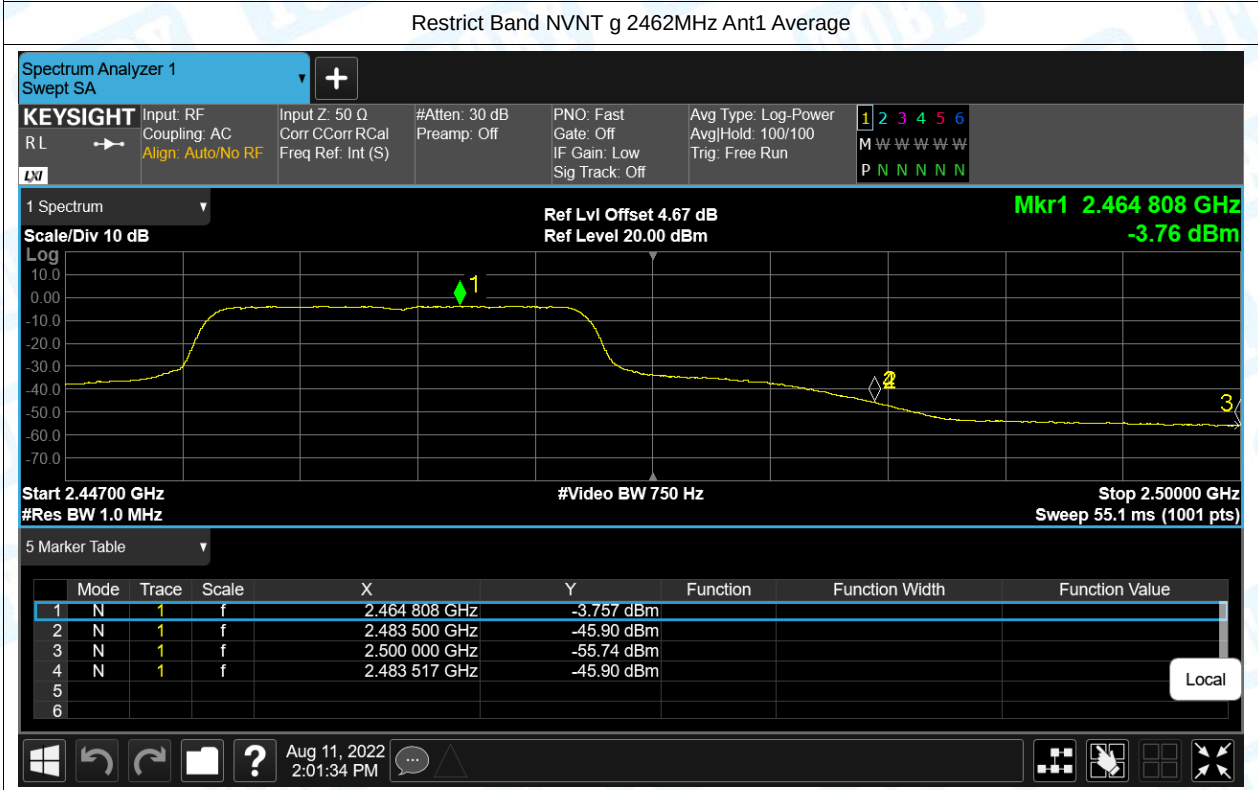
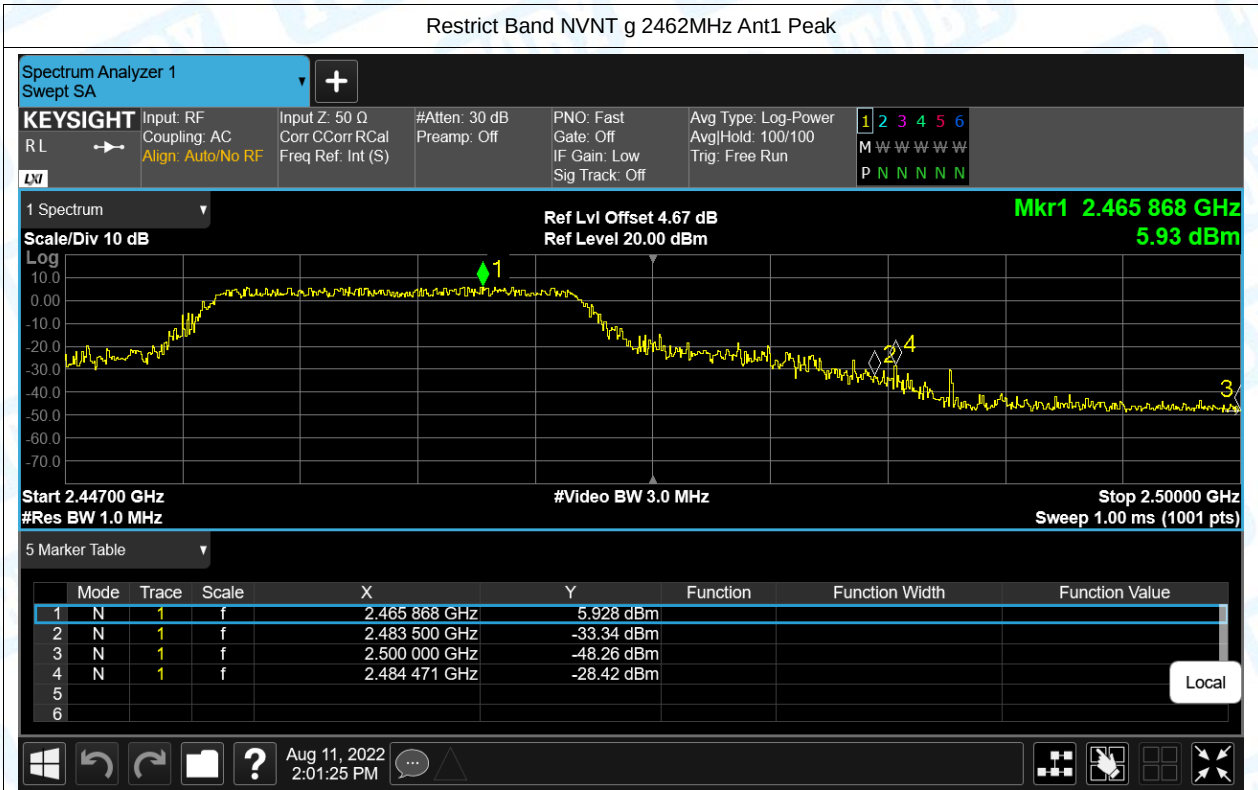
Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average







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