

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Wireless monitor
Test Model:	M735
Sample ID:	RW-C-202206-0130-1-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 3.7V
Test Engineer:	Zhu dian yuan
Note: For a more detailed features description, please refer to the report TBR-C-202206-0130-1.	

1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	45.11	3.46	0.12
NVNT	b	2437	Ant1	45.13	3.46	0.12
NVNT	b	2462	Ant1	45.11	3.46	0.12
NVNT	g	2412	Ant1	12.07	9.18	0.71
NVNT	g	2437	Ant1	12.07	9.18	0.71
NVNT	g	2462	Ant1	11.98	9.22	0.72

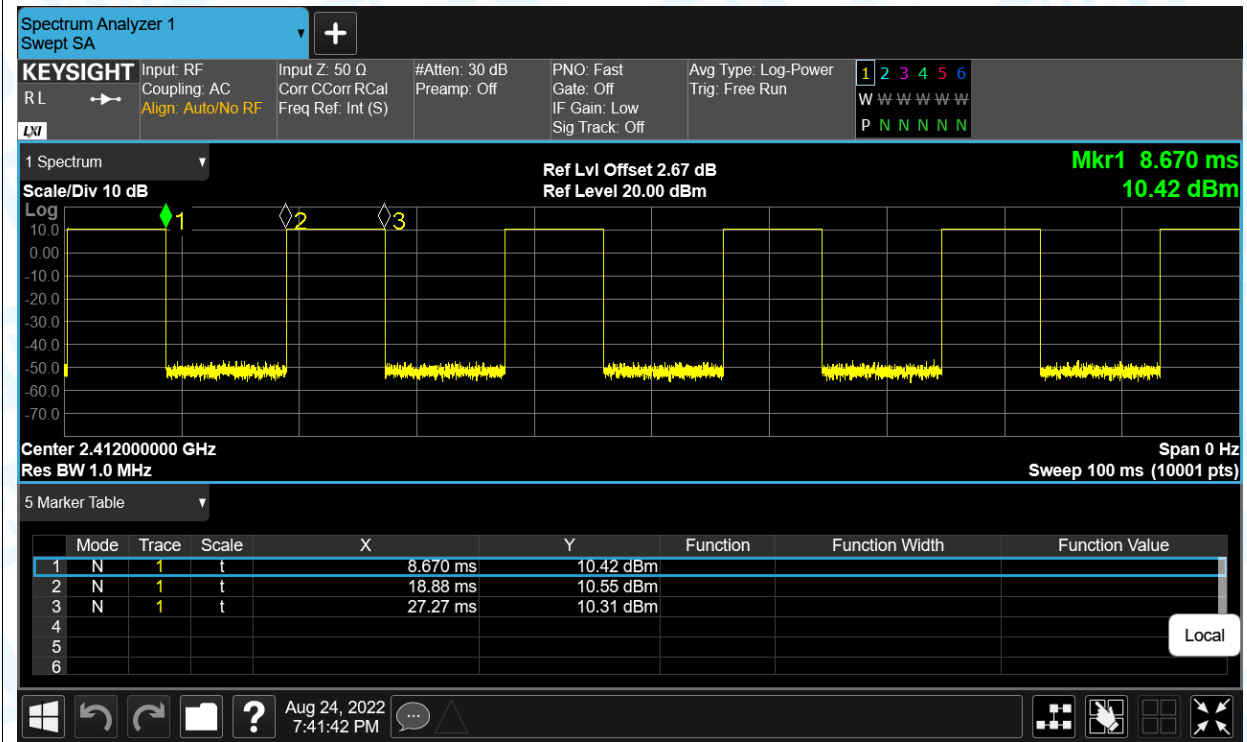
Note: $Duty\ Cycle(\%) = \frac{ON(ms)}{ON(ms)+OFF(ms)}$

$ON(ms) = Maker3 - Maker2$

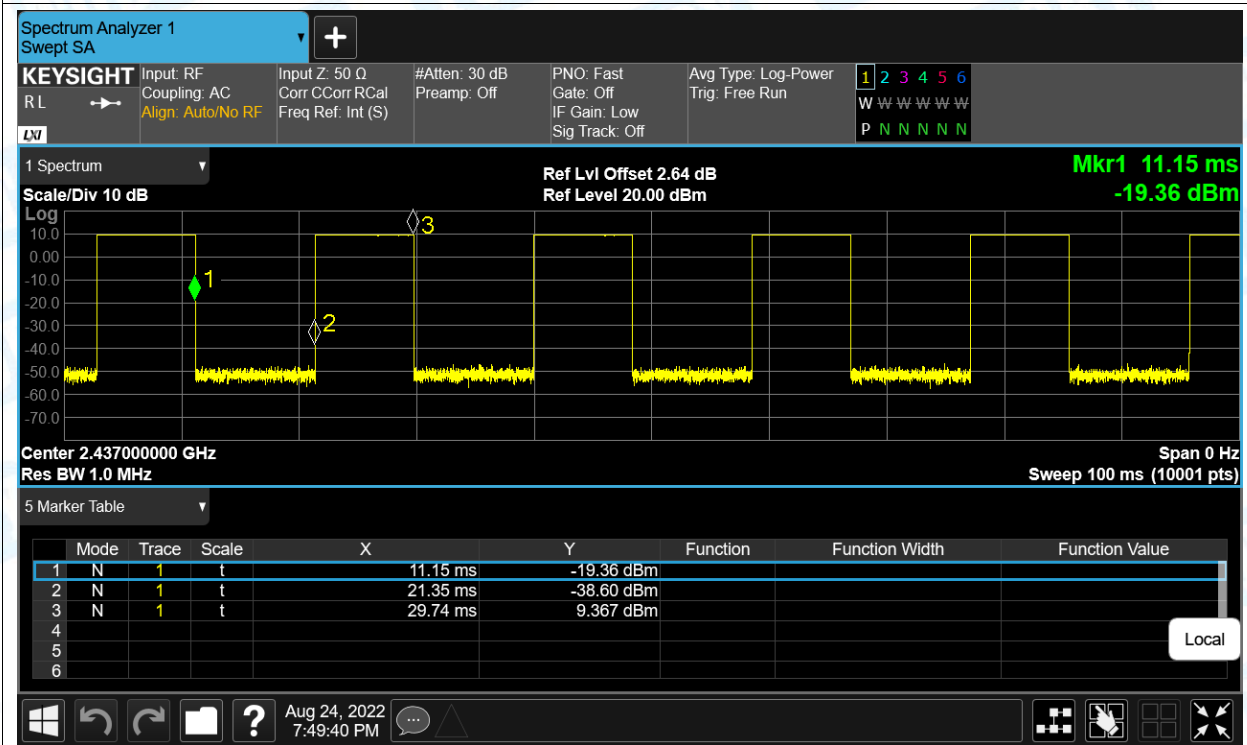
$(ON(ms)+OFF(ms)) = Maker3 - Maker1$

Test Graphs

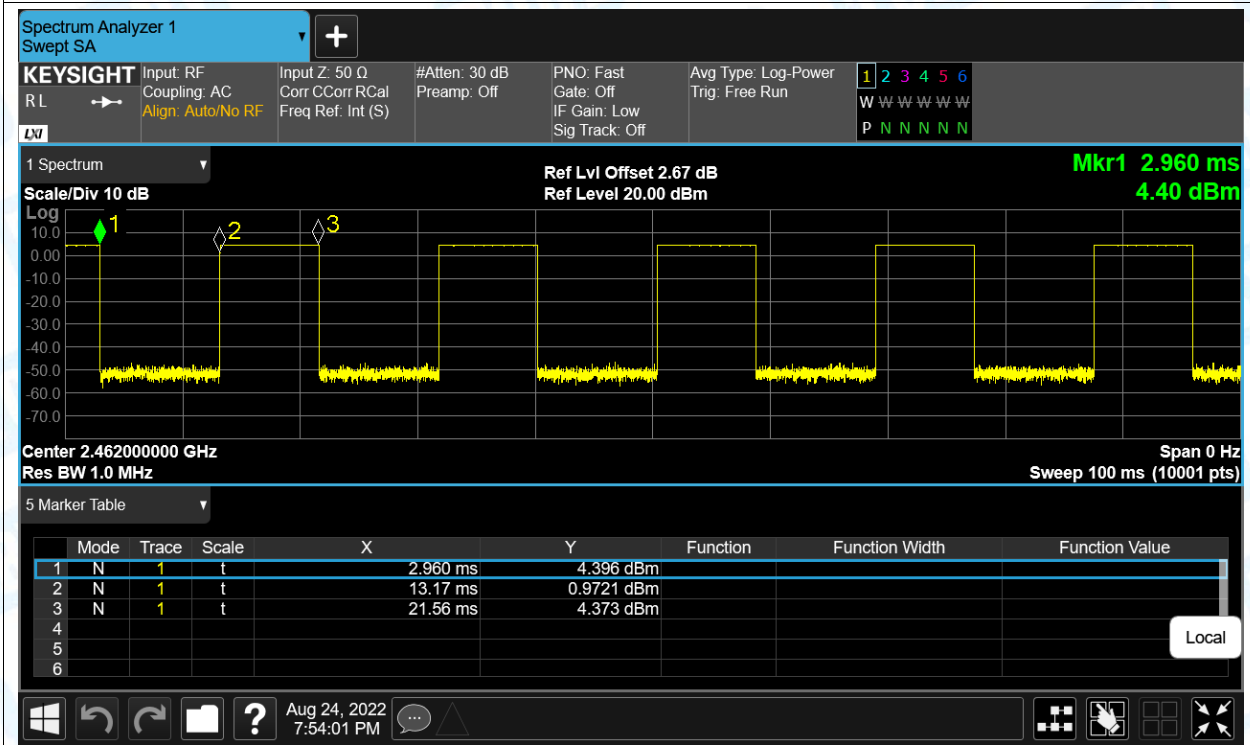
Duty Cycle NVNT b 2412MHz Ant1



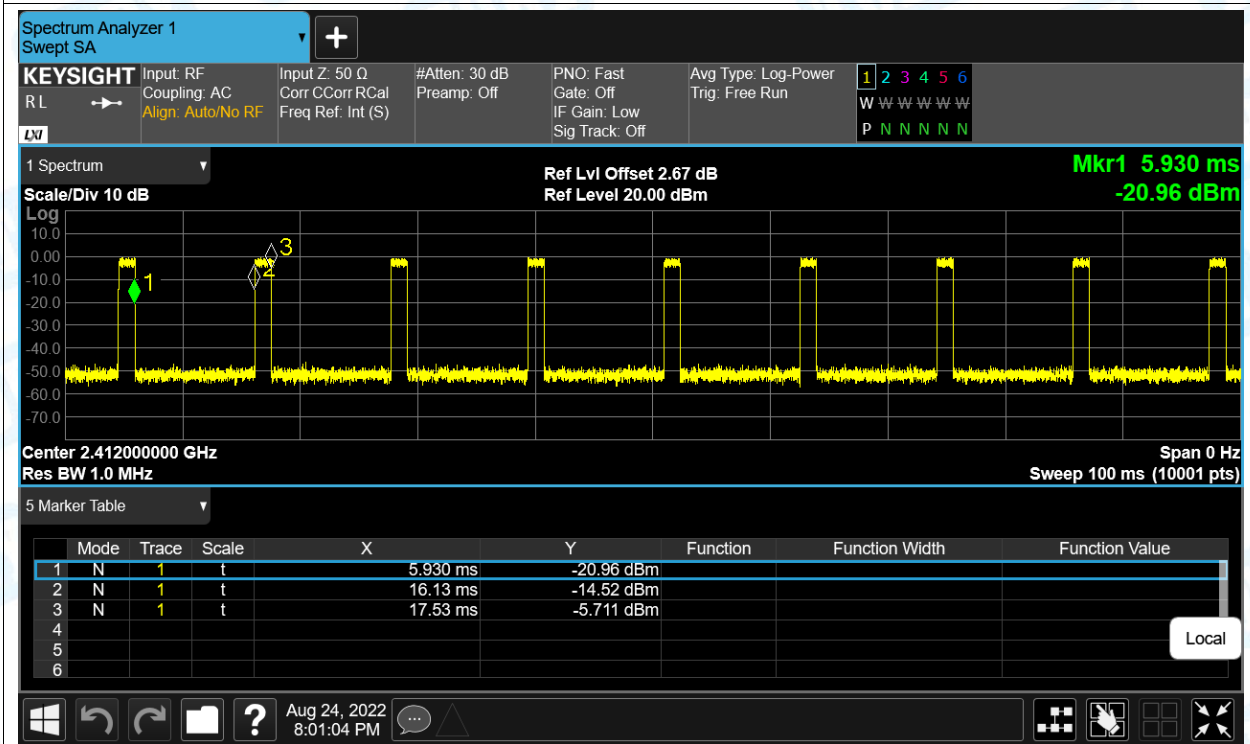
Duty Cycle NVNT b 2437MHz Ant1



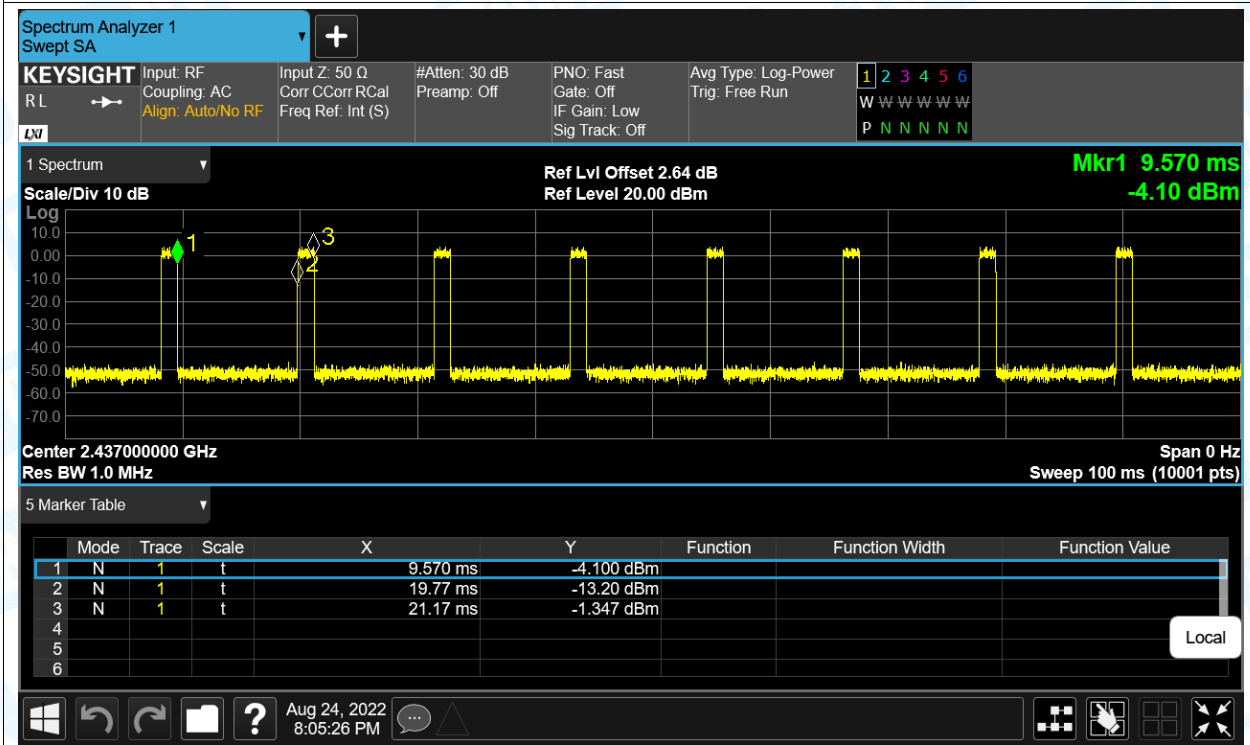
Duty Cycle NVNT b 2462MHz Ant1



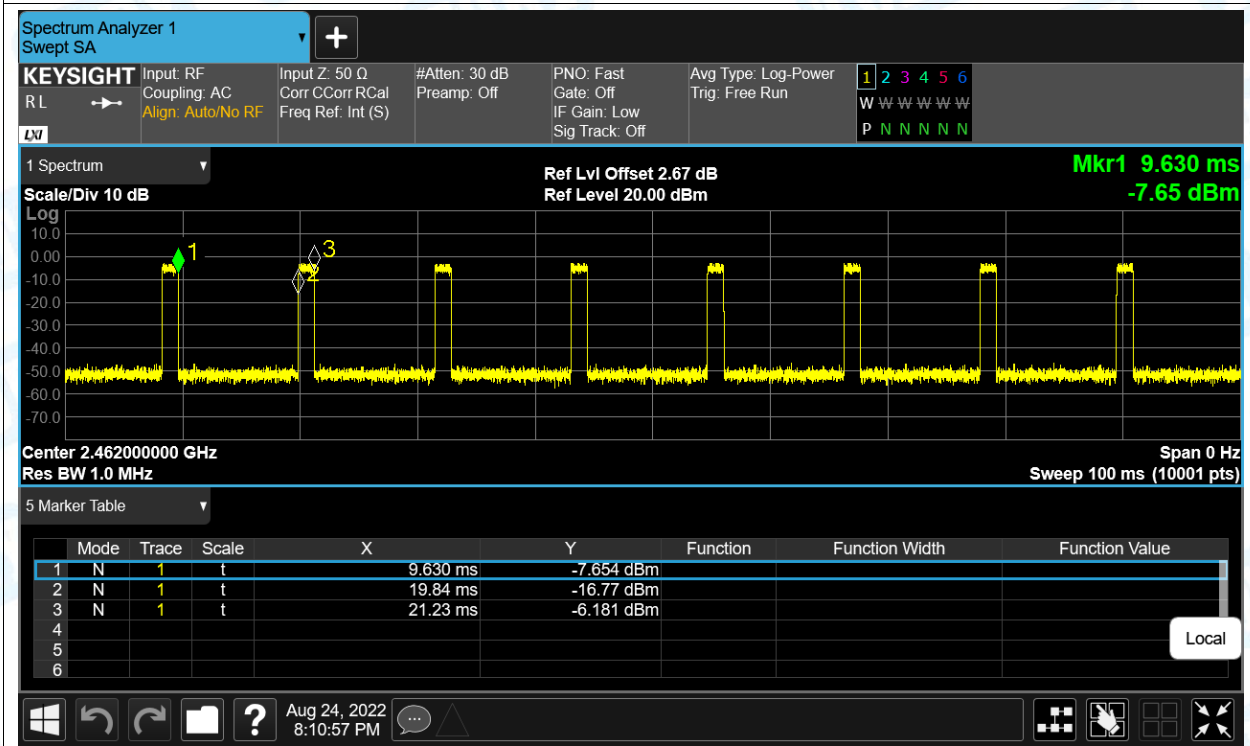
Duty Cycle NVNT g 2412MHz Ant1



Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1

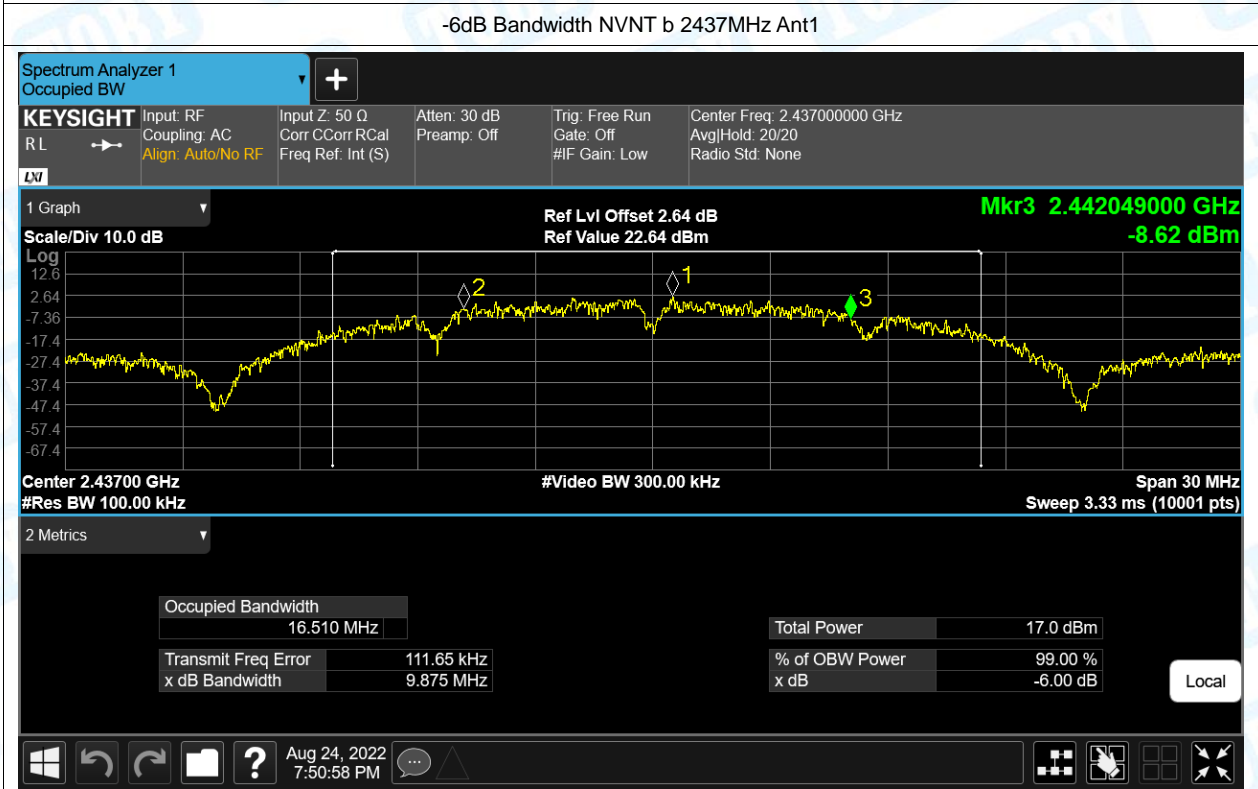


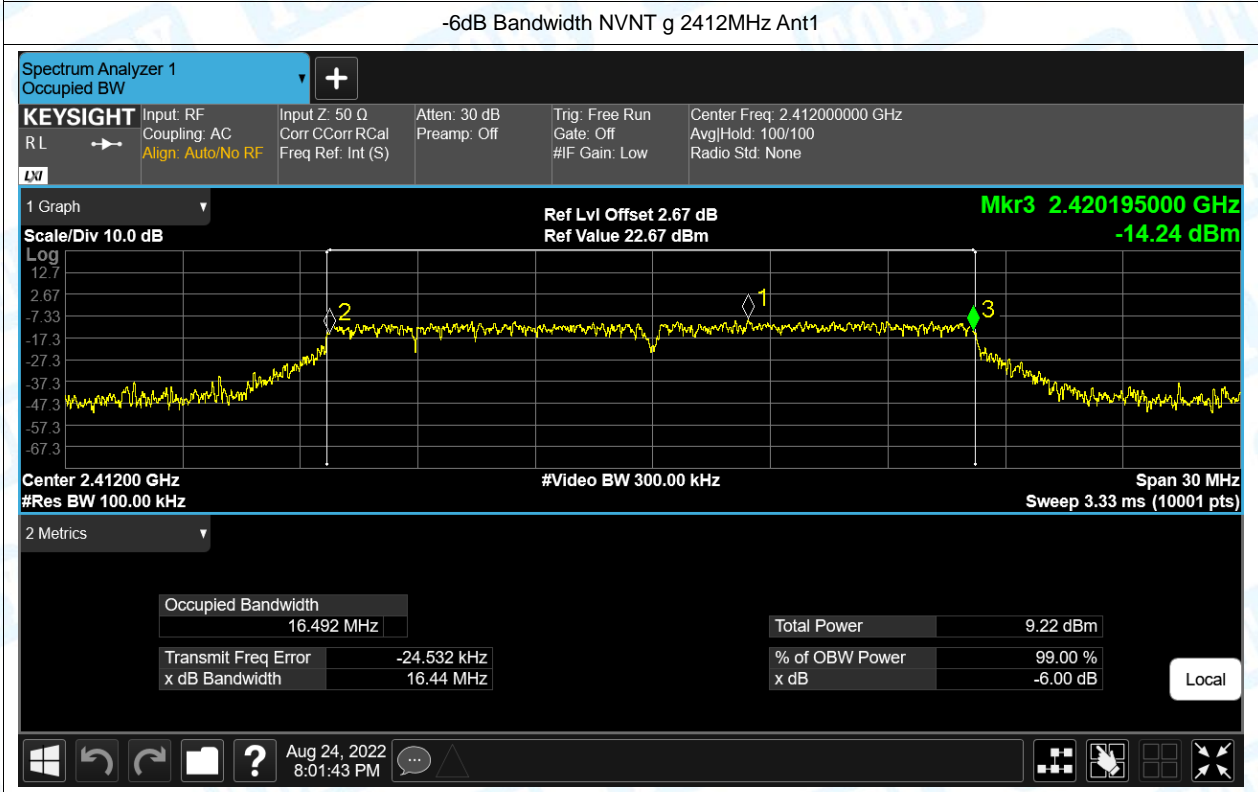
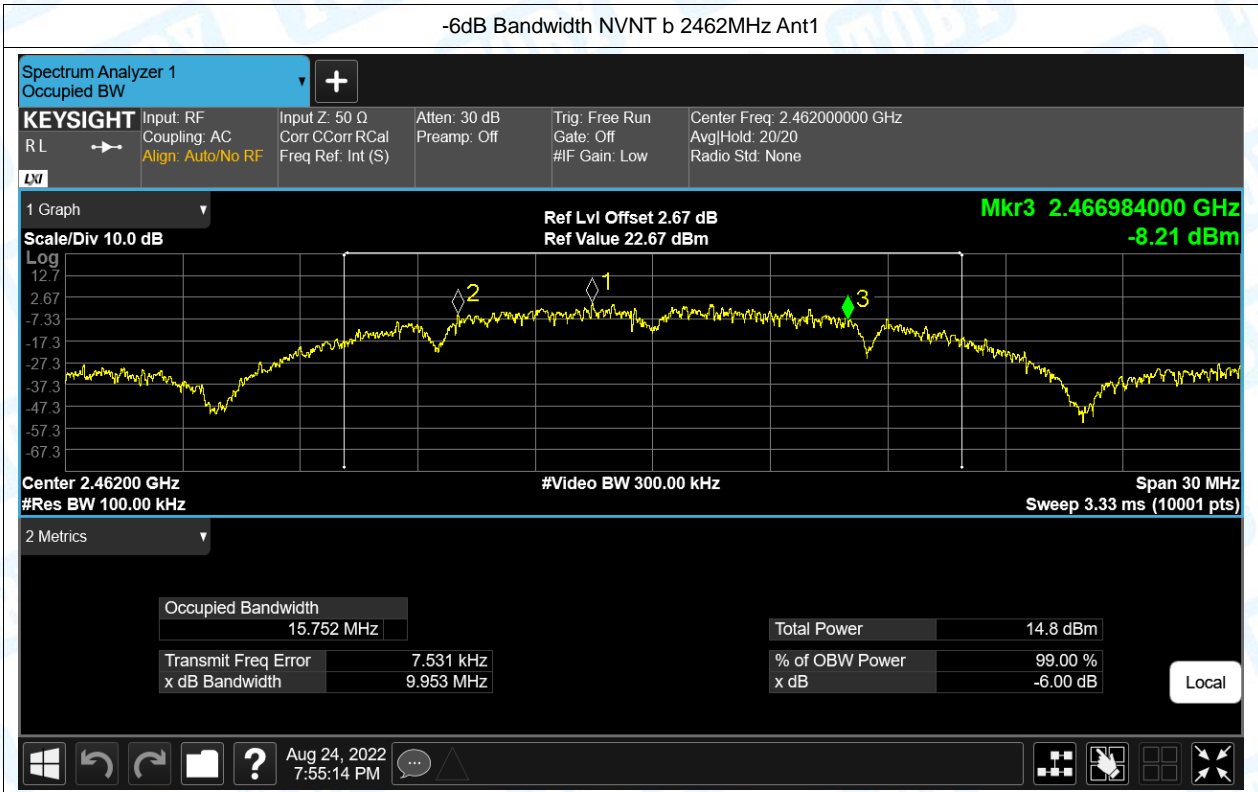
2. Maximum Conducted Output Power

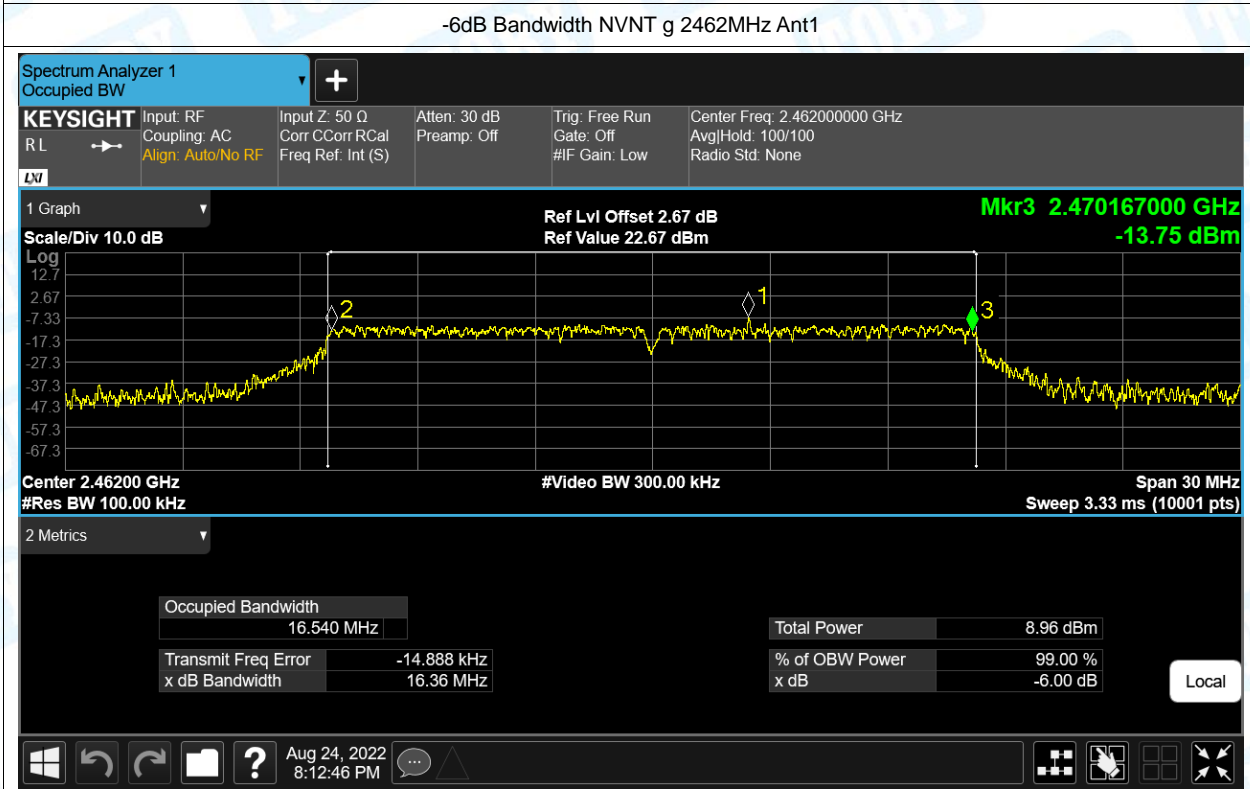
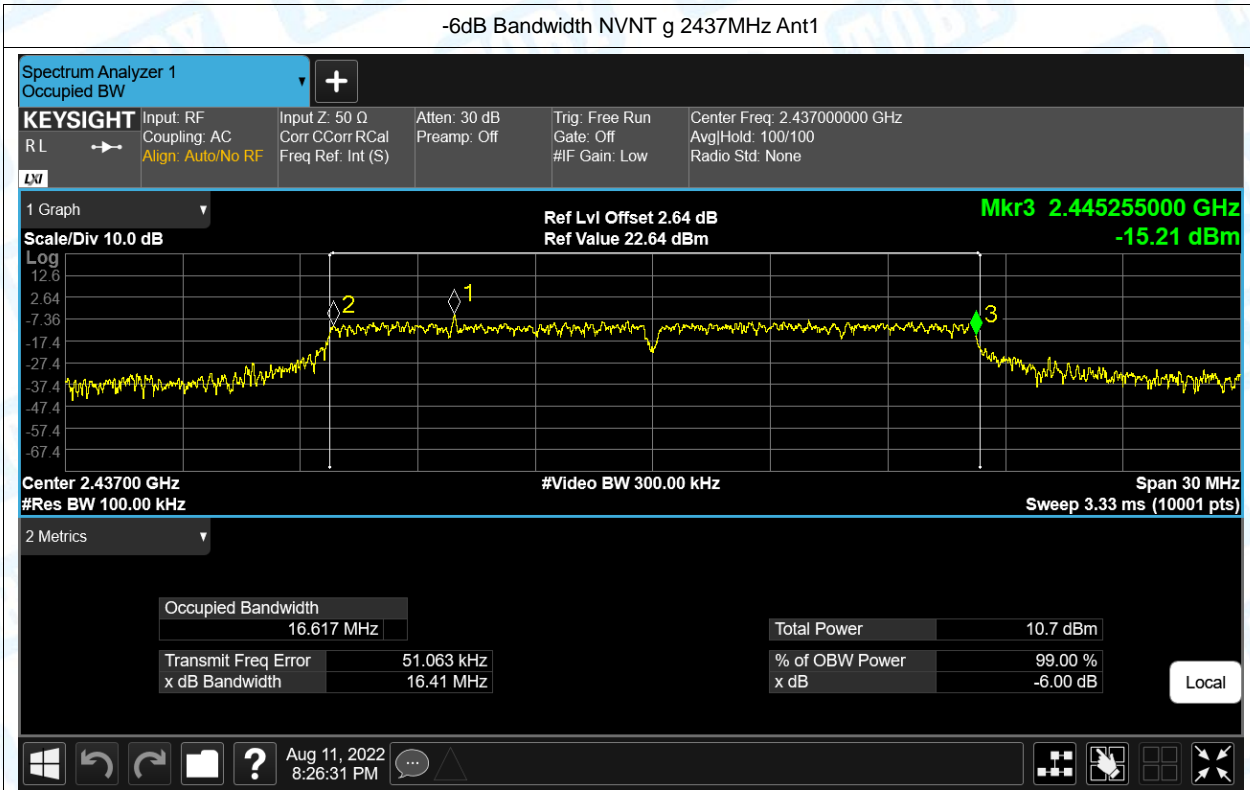
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	8.02	30	Pass
NVNT	b	2437	Ant1	8.00	30	Pass
NVNT	b	2462	Ant1	8.84	30	Pass
NVNT	g	2412	Ant1	8.18	30	Pass
NVNT	g	2437	Ant1	8.40	30	Pass
NVNT	g	2462	Ant1	7.94	30	Pass

3. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.56	0.5	Pass
NVNT	b	2437	Ant1	9.88	0.5	Pass
NVNT	b	2462	Ant1	9.95	0.5	Pass
NVNT	g	2412	Ant1	16.44	0.5	Pass
NVNT	g	2437	Ant1	16.41	0.5	Pass
NVNT	g	2462	Ant1	16.36	0.5	Pass





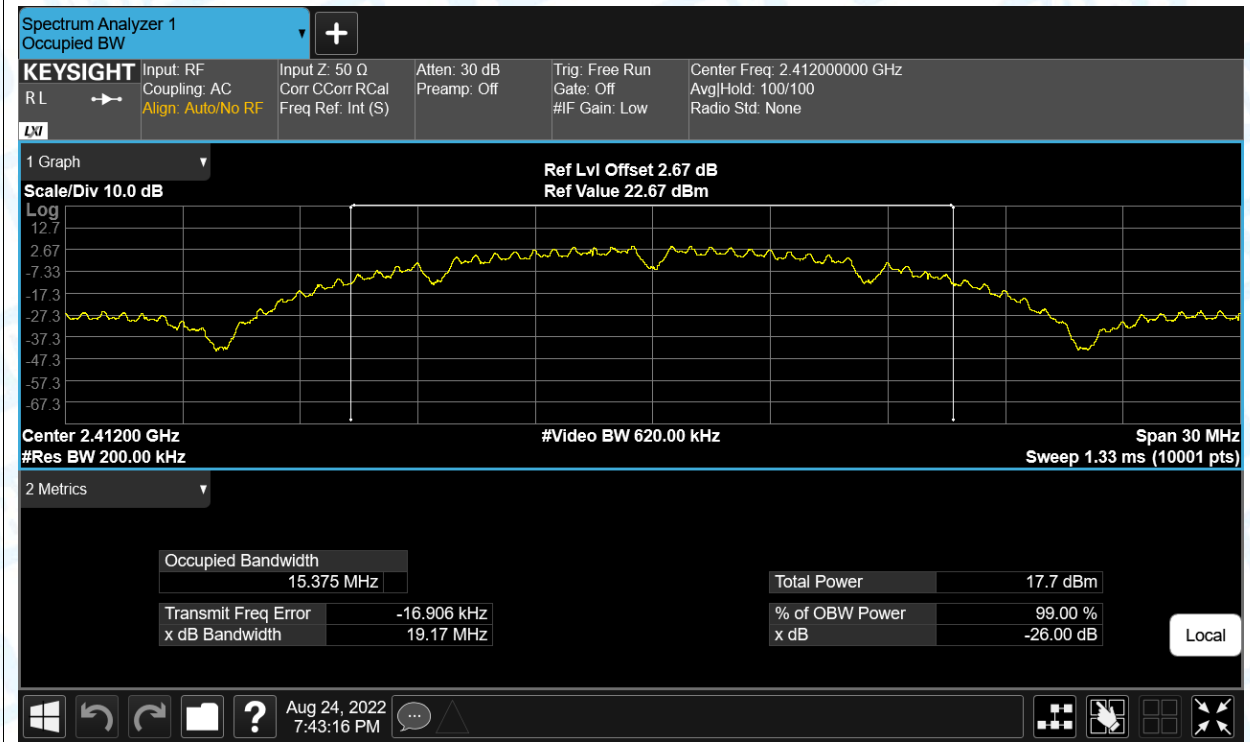


4. Occupied Channel Bandwidth

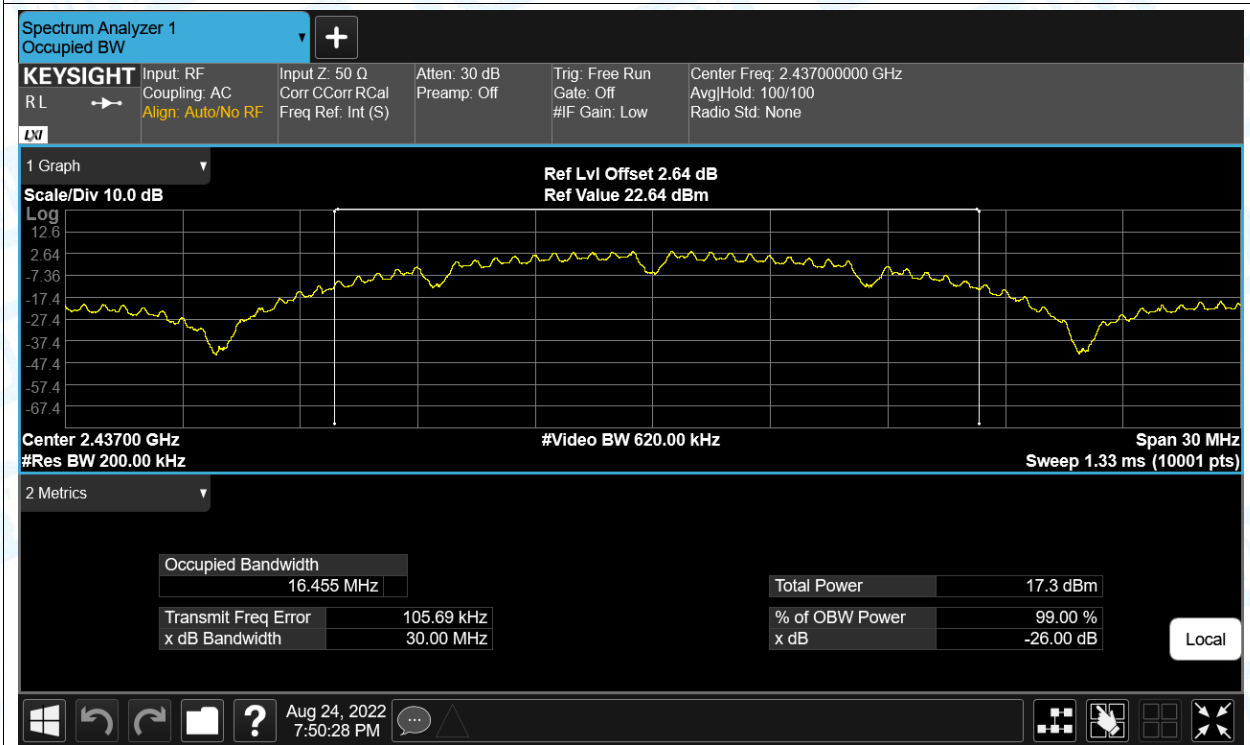
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	15.375
NVNT	b	2437	Ant1	16.455
NVNT	b	2462	Ant1	15.794
NVNT	g	2412	Ant1	16.619
NVNT	g	2437	Ant1	16.984
NVNT	g	2462	Ant1	16.568

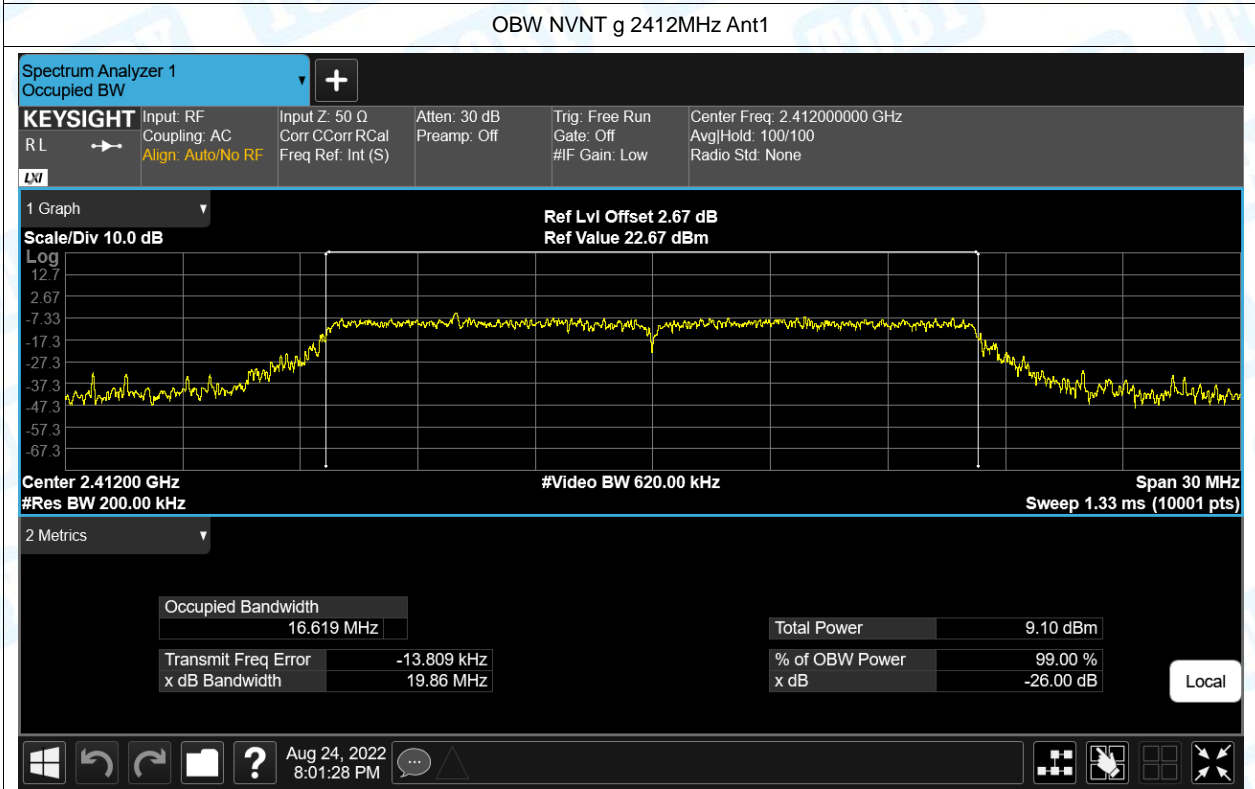
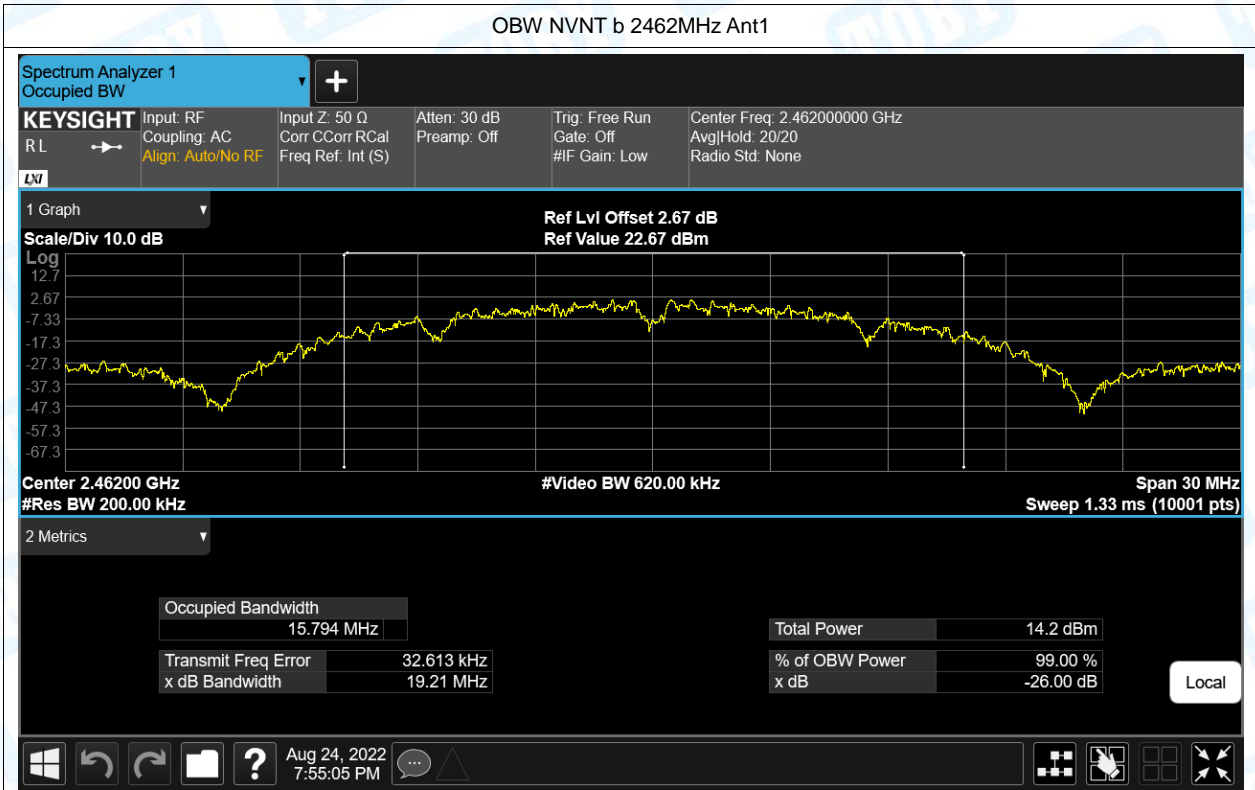
Test Graphs

OBW NVNT b 2412MHz Ant1

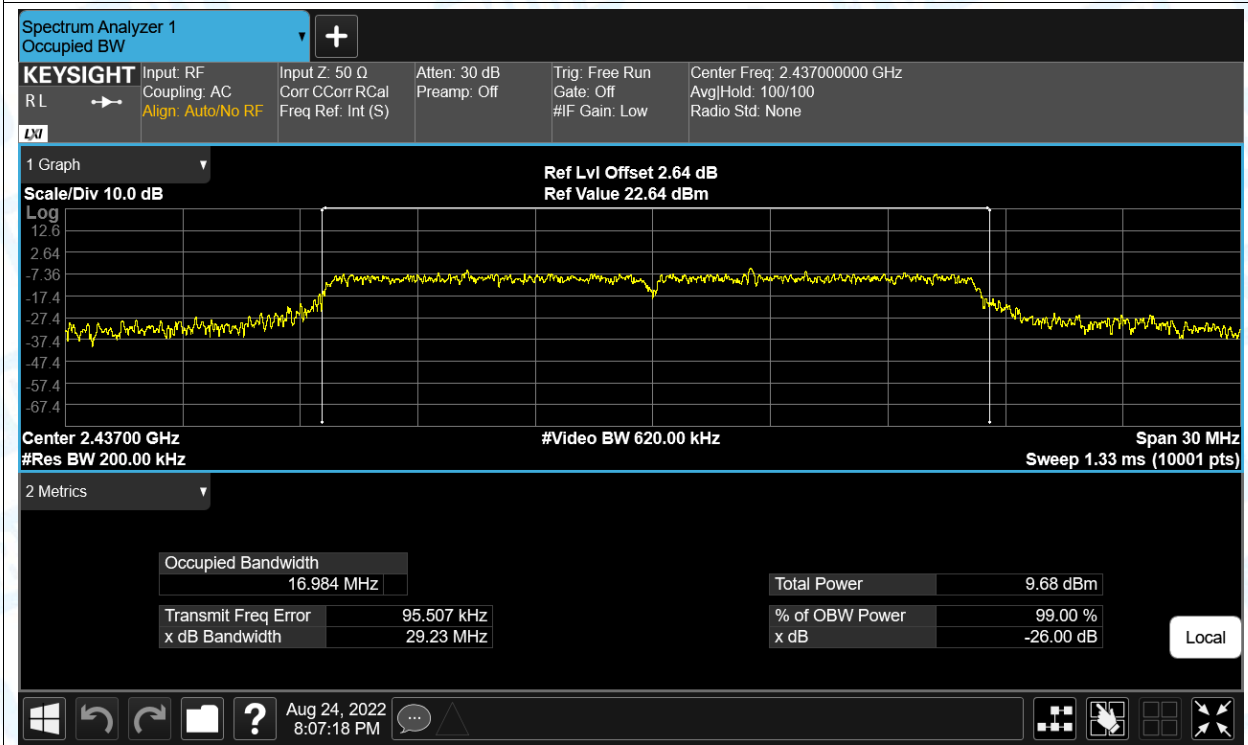


OBW NVNT b 2437MHz Ant1

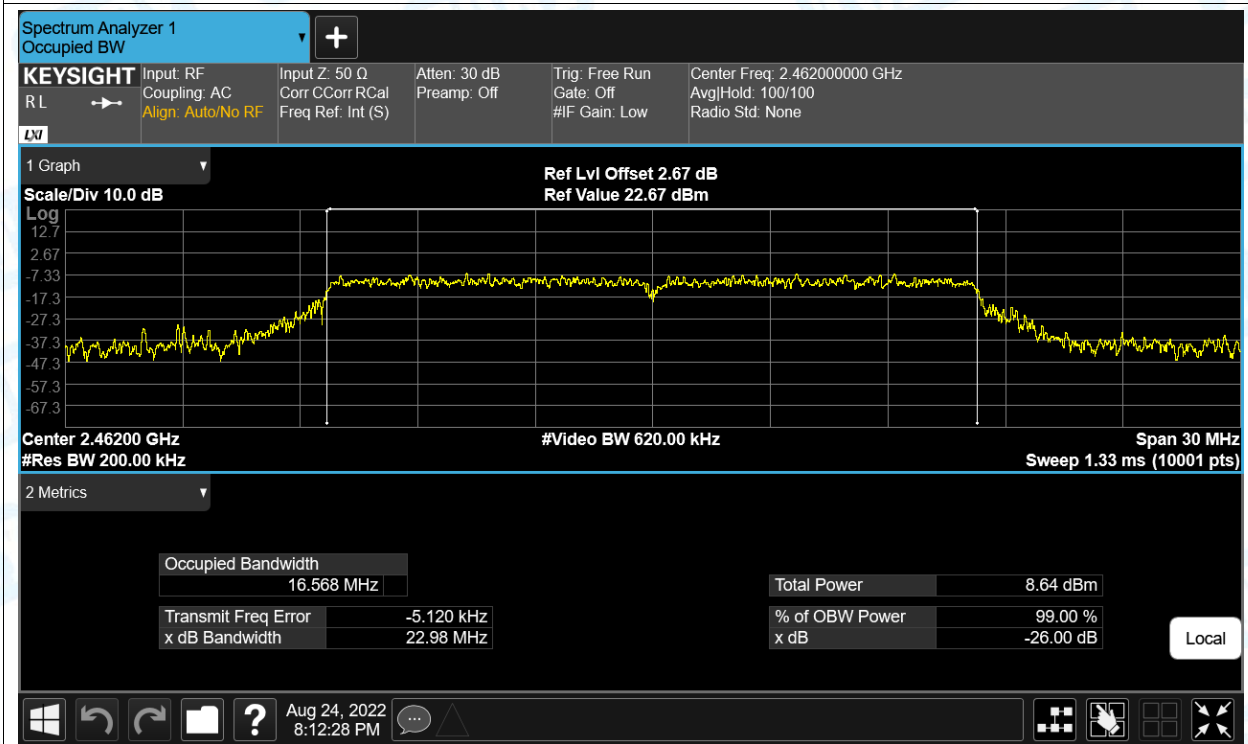




OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1

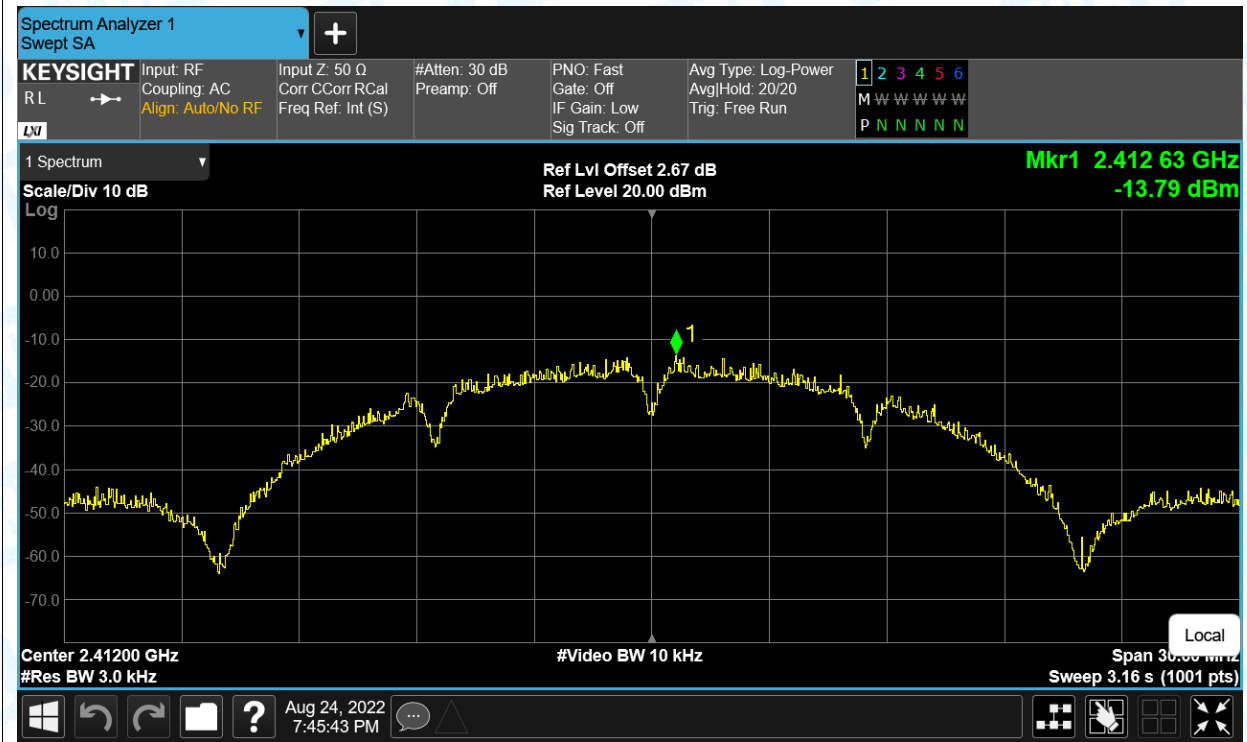


5. Maximum Power Spectral Density Level

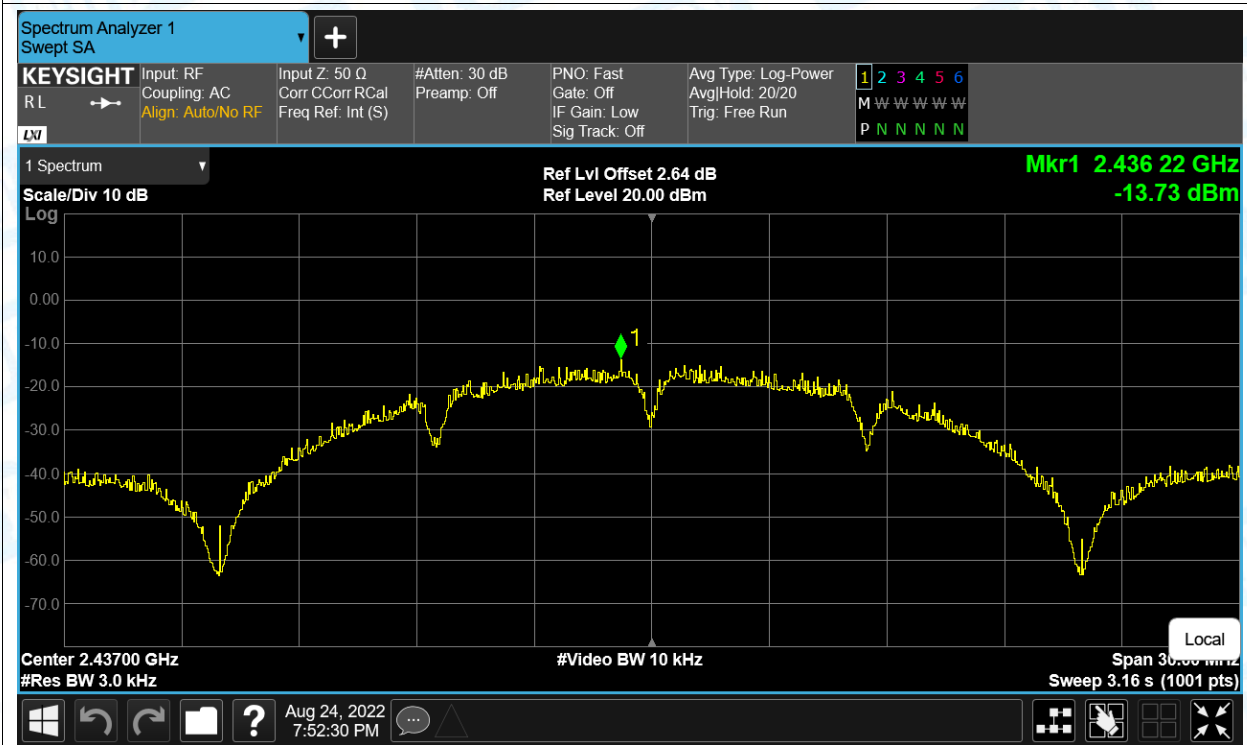
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-13.786	8	Pass
NVNT	b	2437	Ant1	-13.725	8	Pass
NVNT	b	2462	Ant1	-15.779	8	Pass
NVNT	g	2412	Ant1	-23.227	8	Pass
NVNT	g	2437	Ant1	-22.648	8	Pass
NVNT	g	2462	Ant1	-23.229	8	Pass

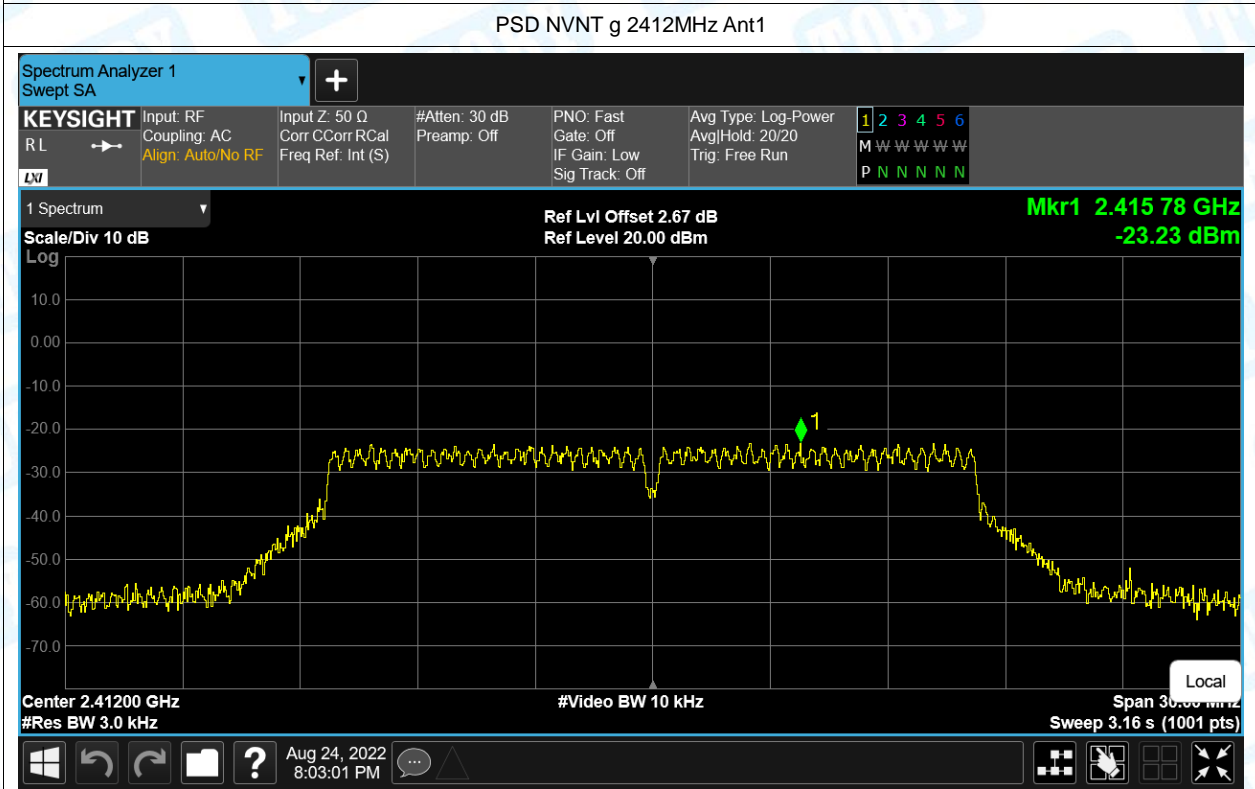
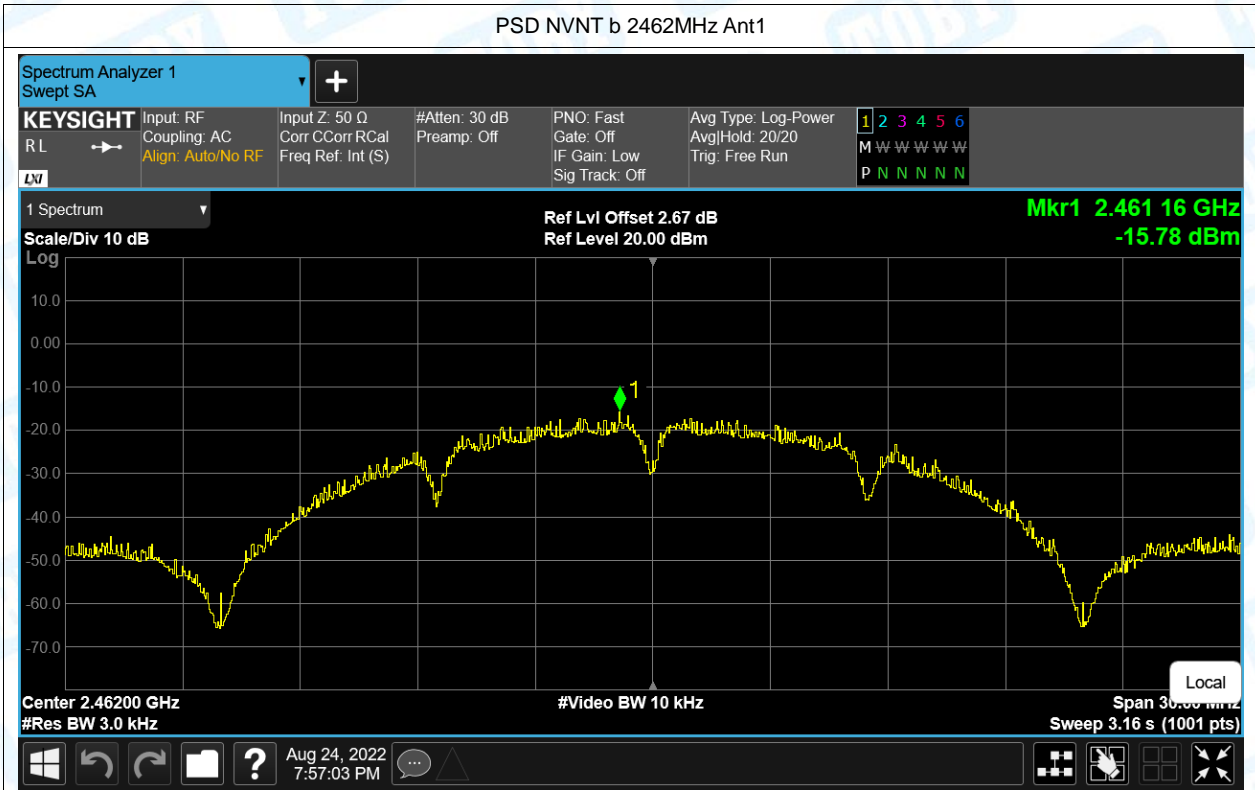
Test Graphs

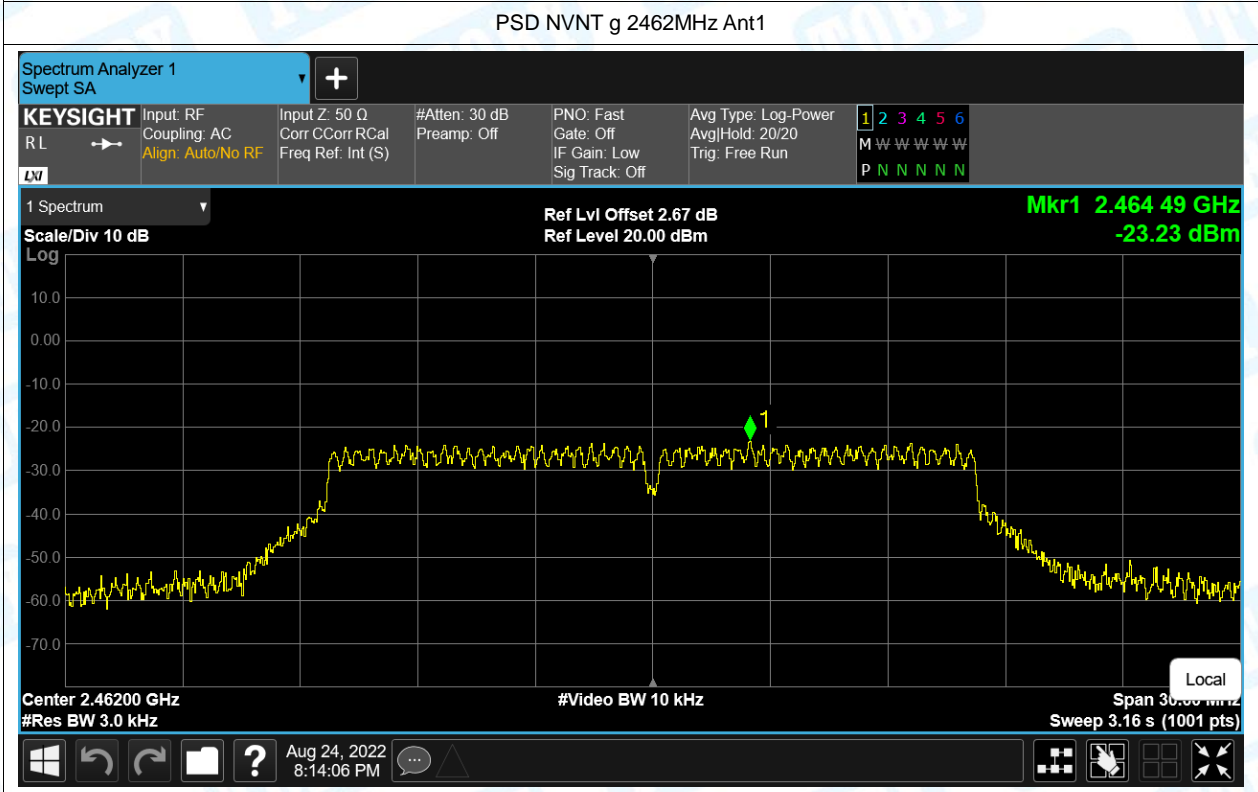
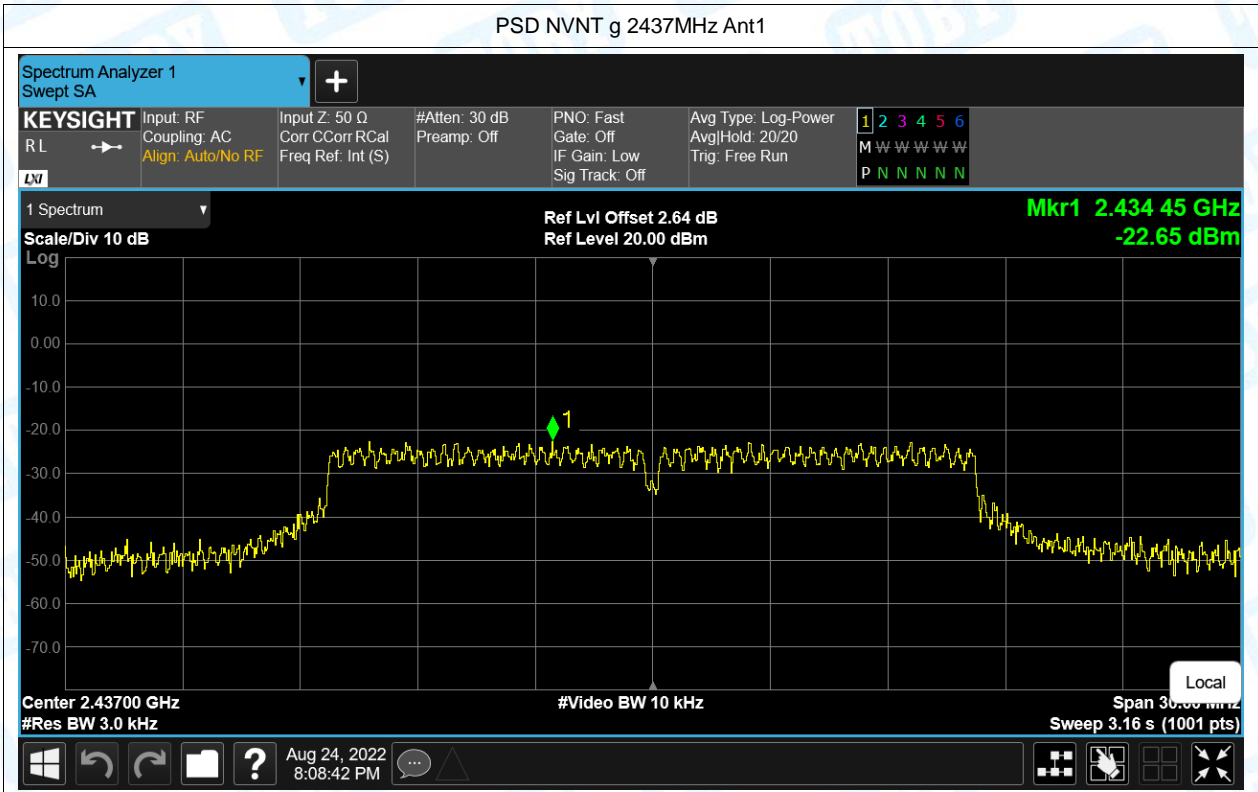
PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1





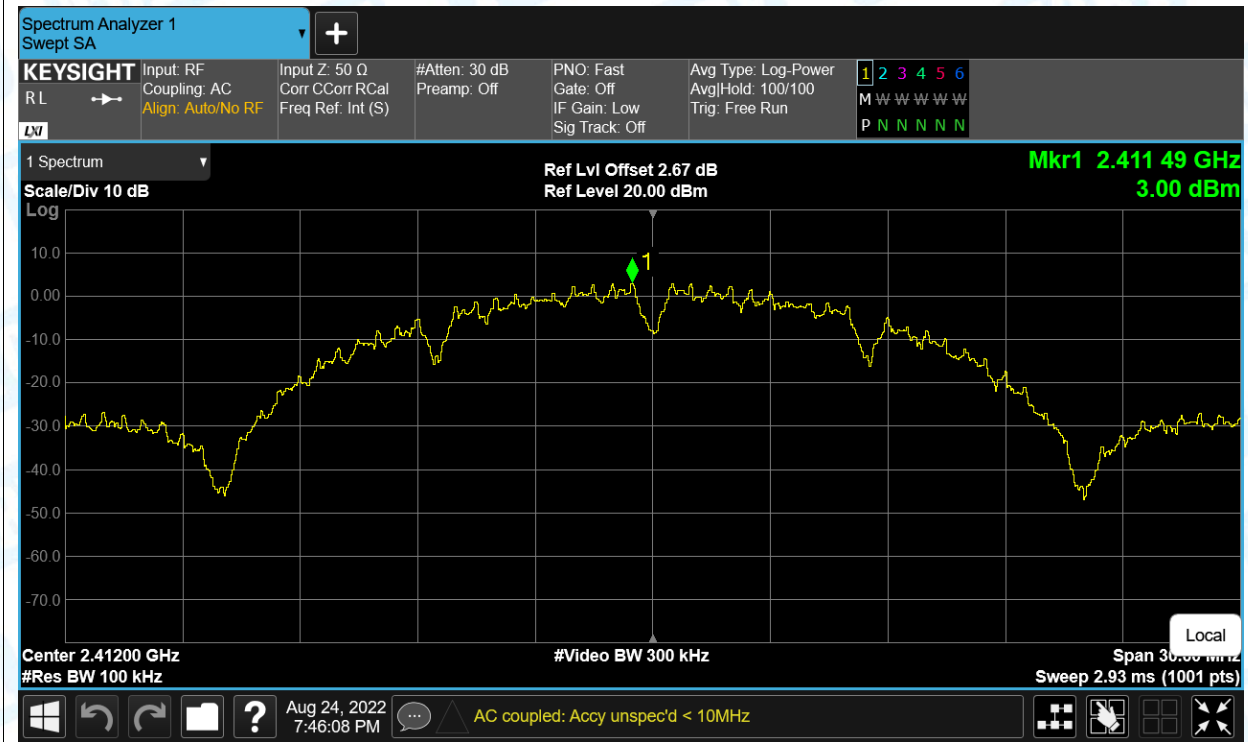


6. Band Edge

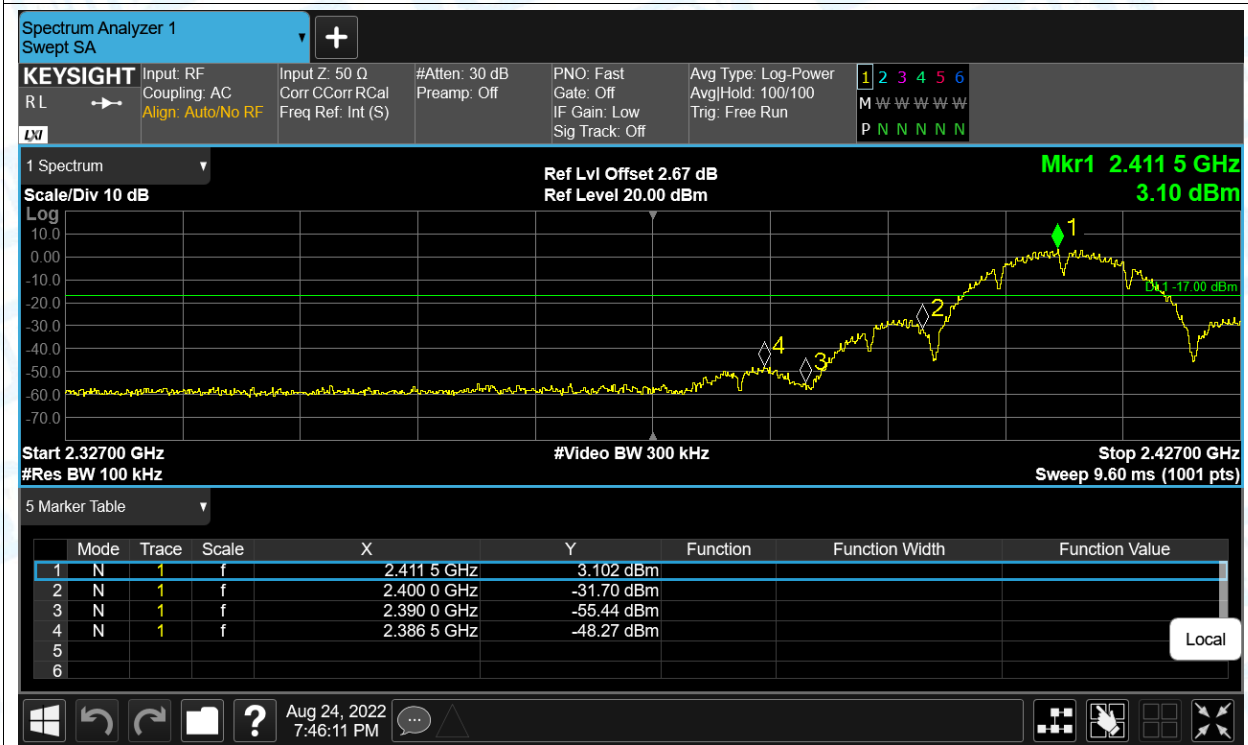
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.27	-20	Pass
NVNT	b	2462	Ant1	-54.91	-20	Pass
NVNT	g	2412	Ant1	-46.42	-20	Pass
NVNT	g	2462	Ant1	-41.2	-20	Pass

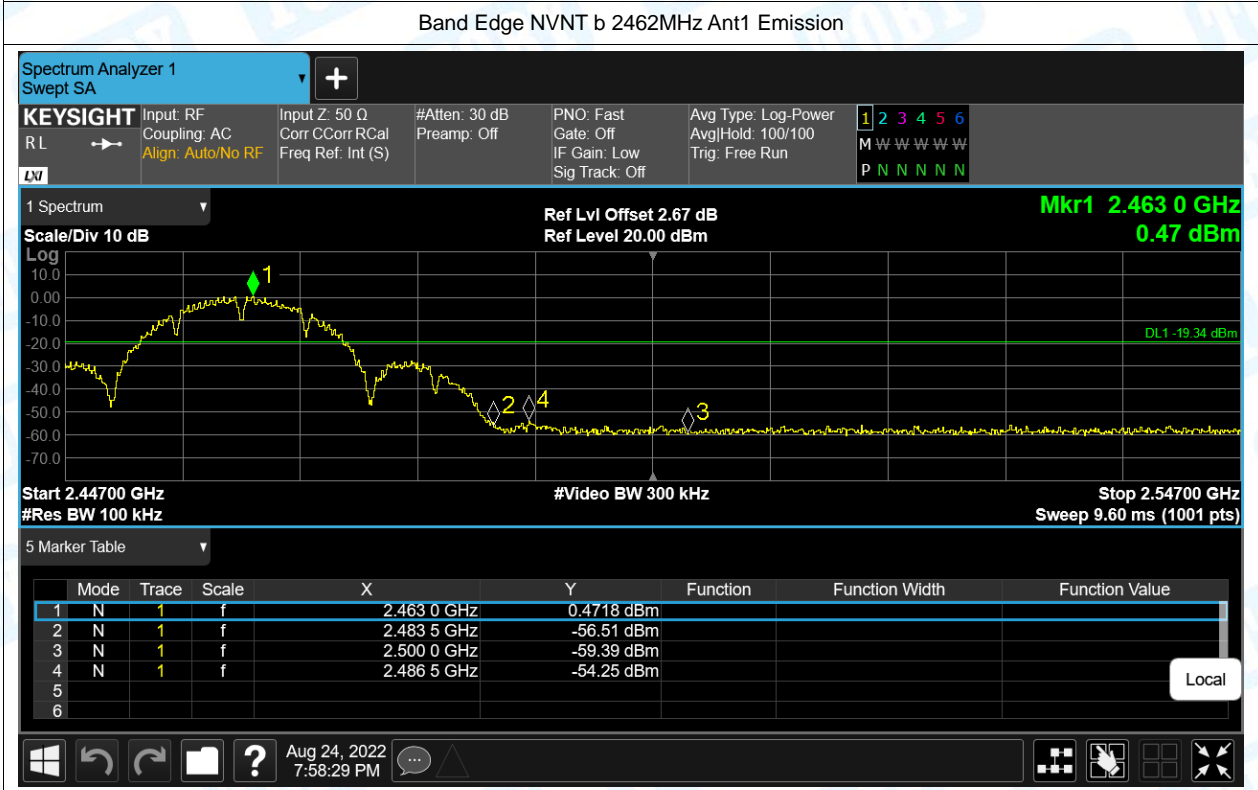
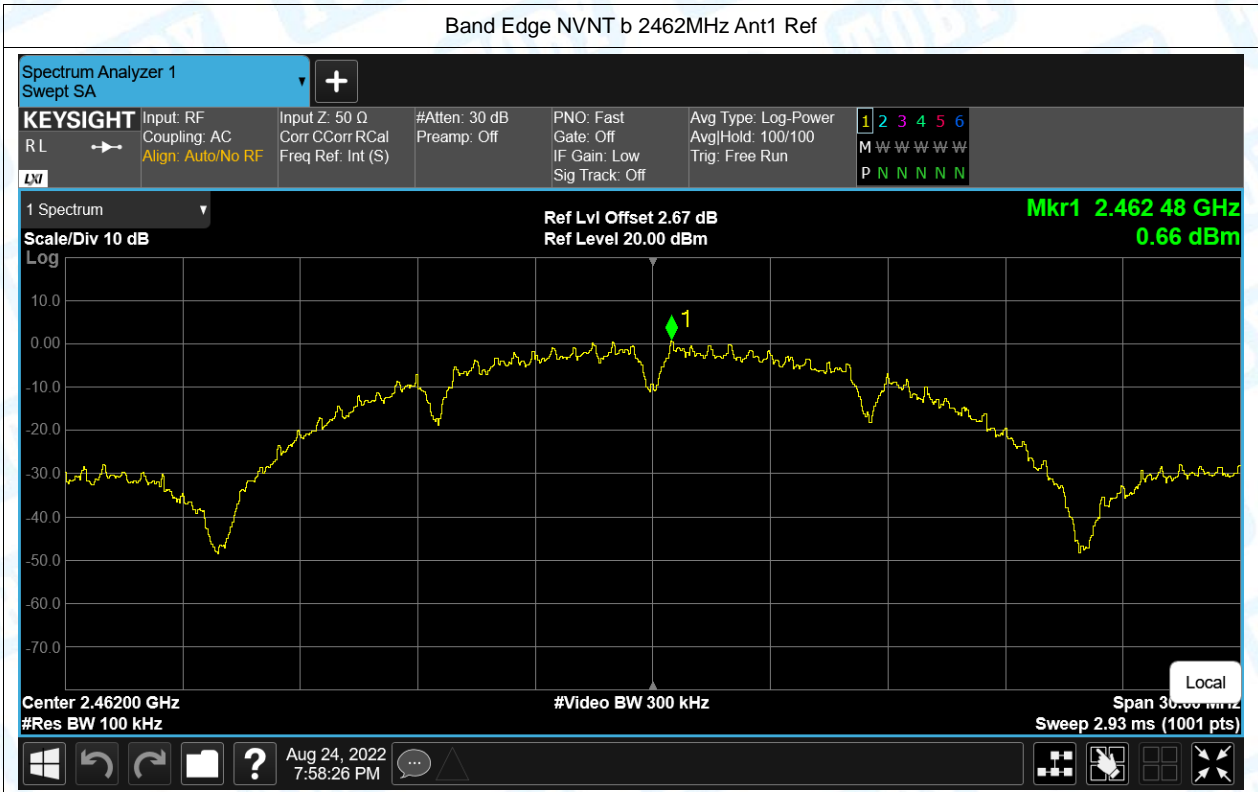
Test Graphs

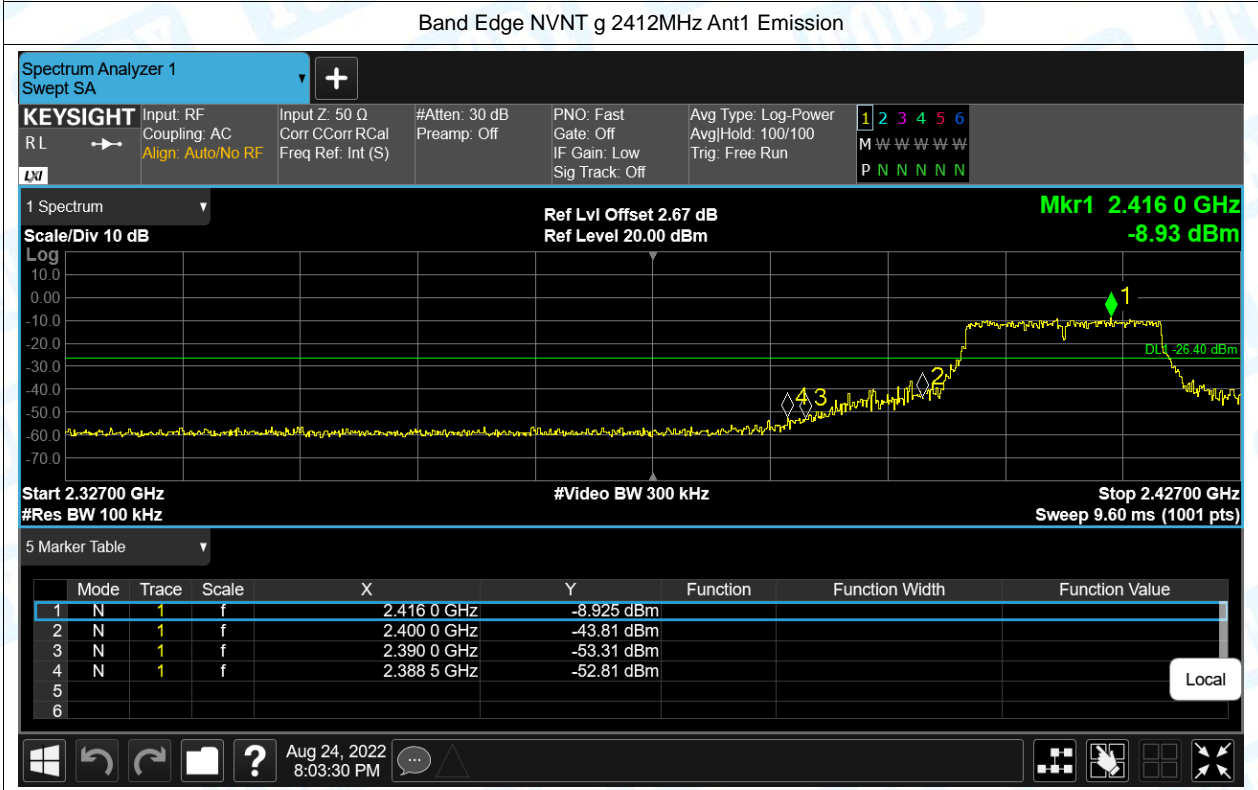
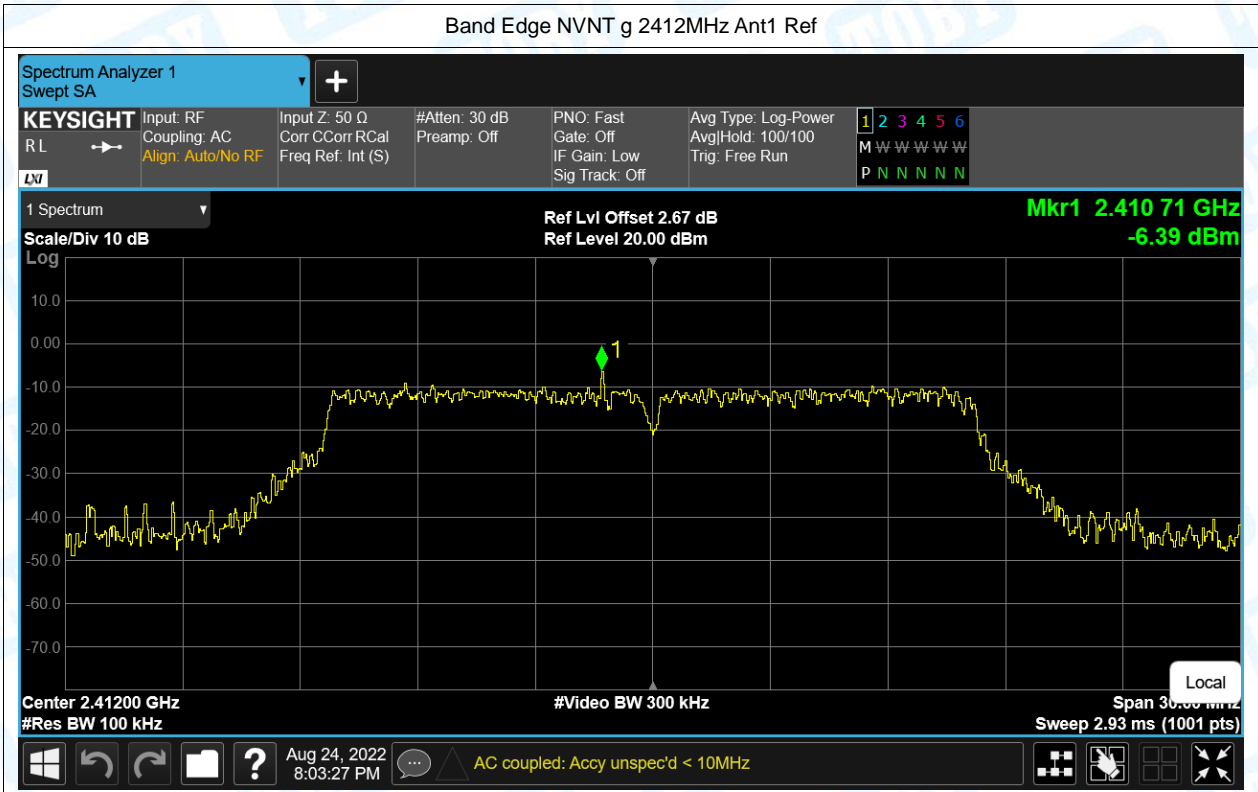
Band Edge NVNT b 2412MHz Ant1 Ref

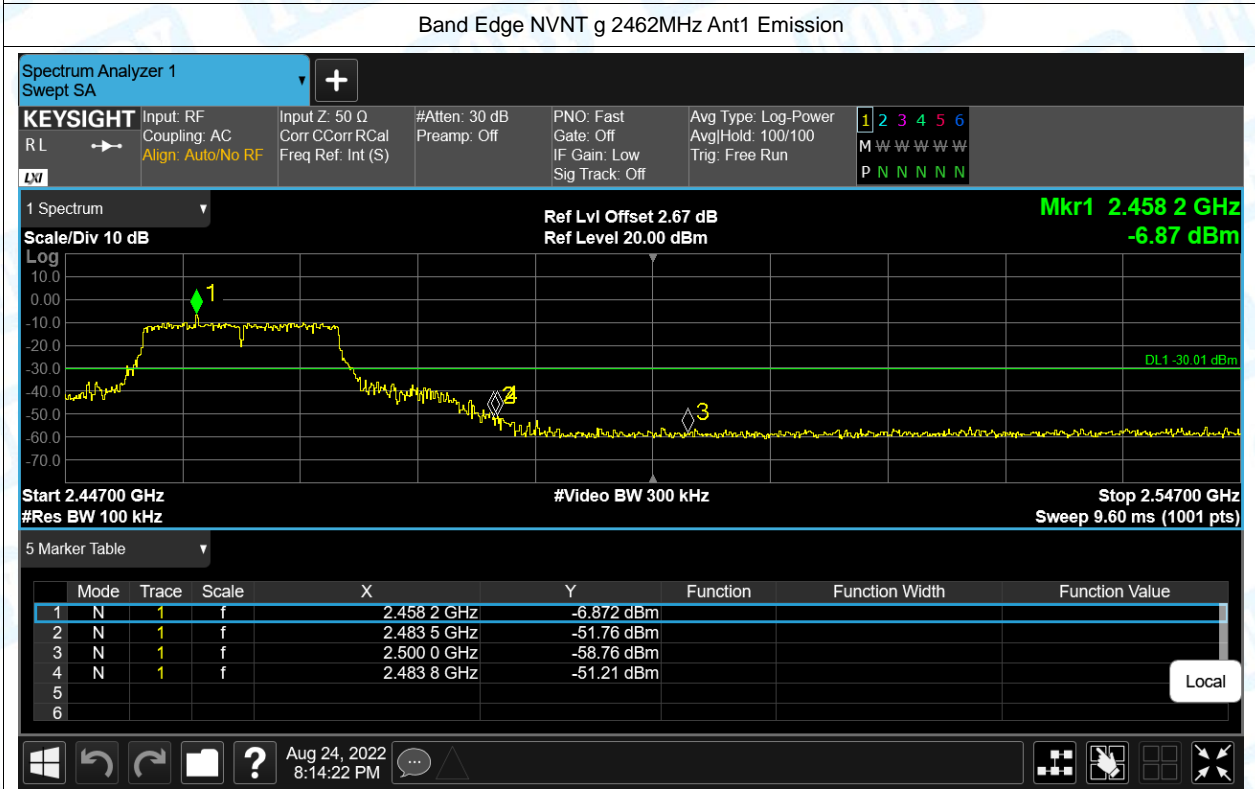
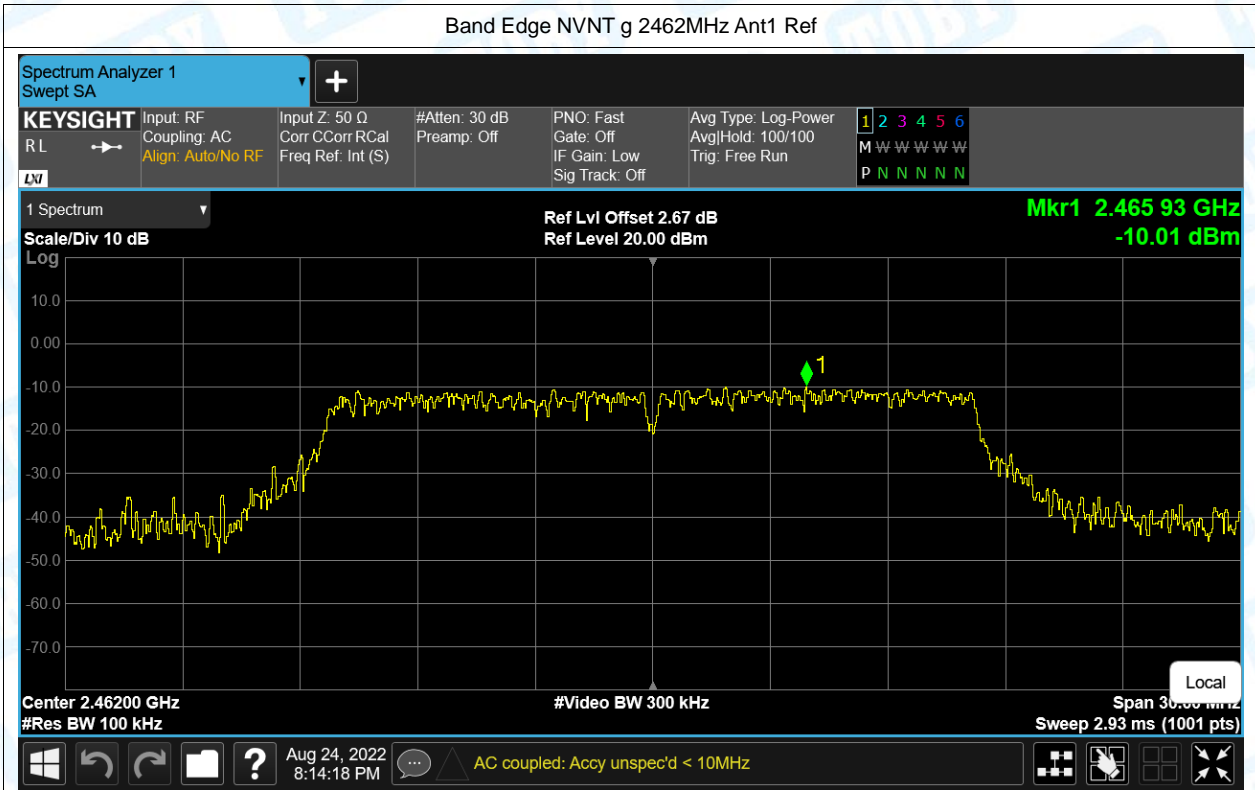


Band Edge NVNT b 2412MHz Ant1 Emission







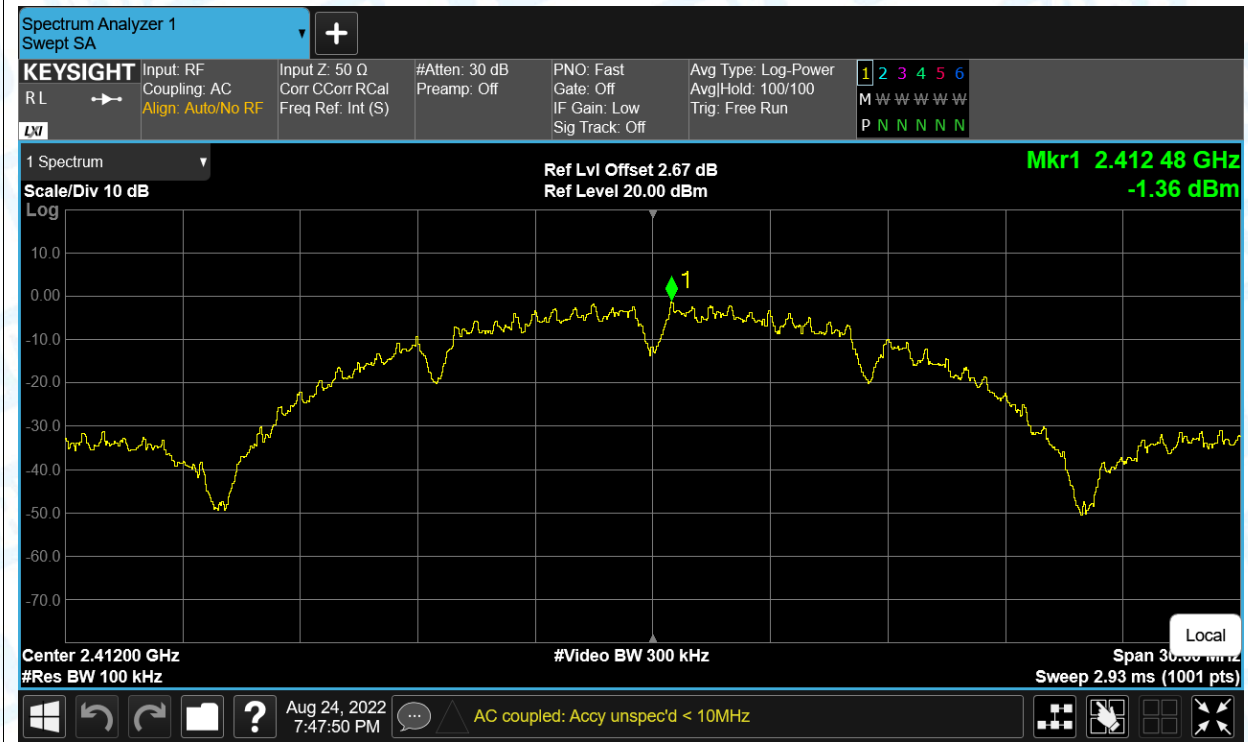


7. Conducted RF Spurious Emission

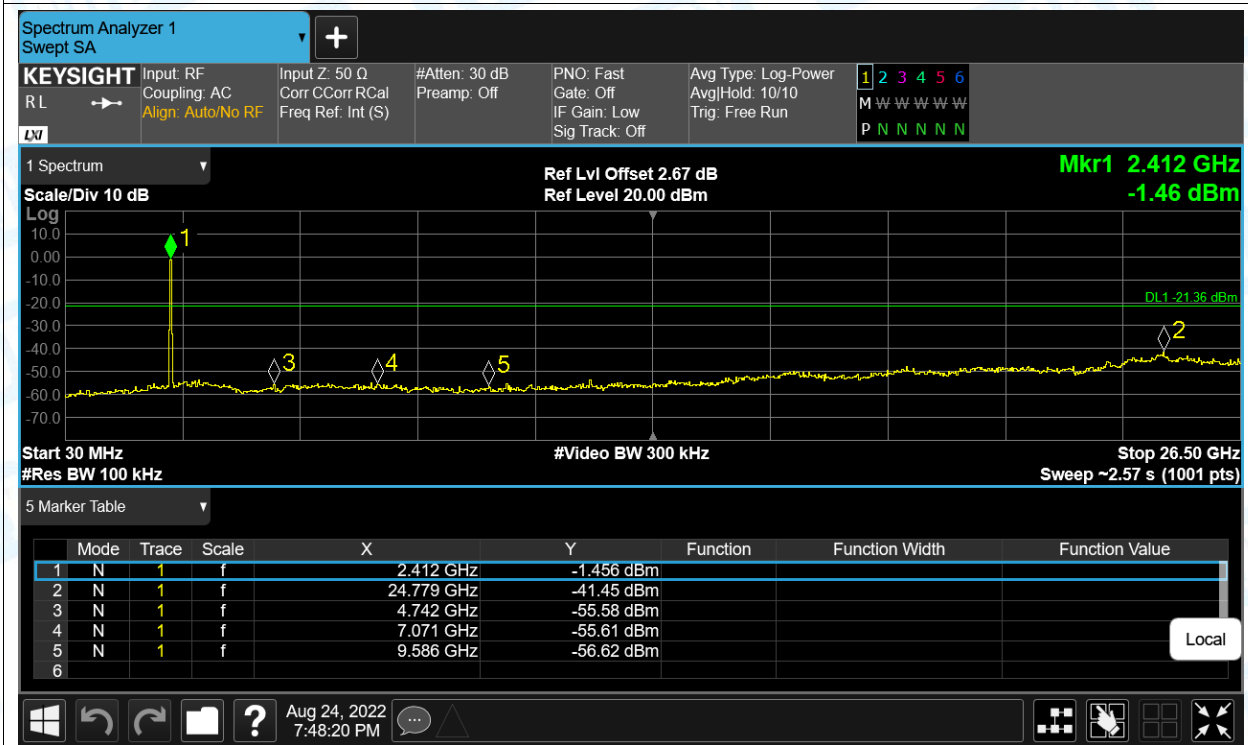
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-40.09	-20	Pass
NVNT	b	2437	Ant1	-44.04	-20	Pass
NVNT	b	2462	Ant1	-42.81	-20	Pass
NVNT	g	2412	Ant1	-35.64	-20	Pass
NVNT	g	2437	Ant1	-34.94	-20	Pass
NVNT	g	2462	Ant1	-35.94	-20	Pass

Test Graphs

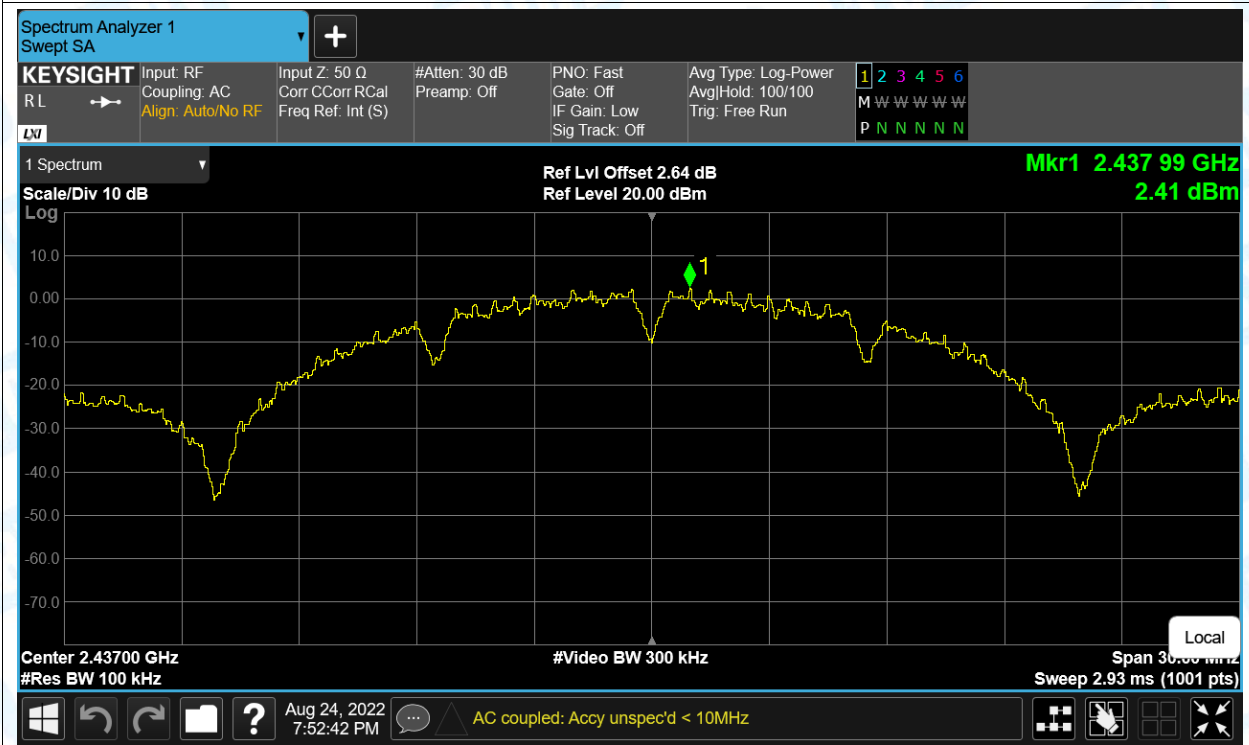
Tx. Spurious NVNT b 2412MHz Ant1 Ref



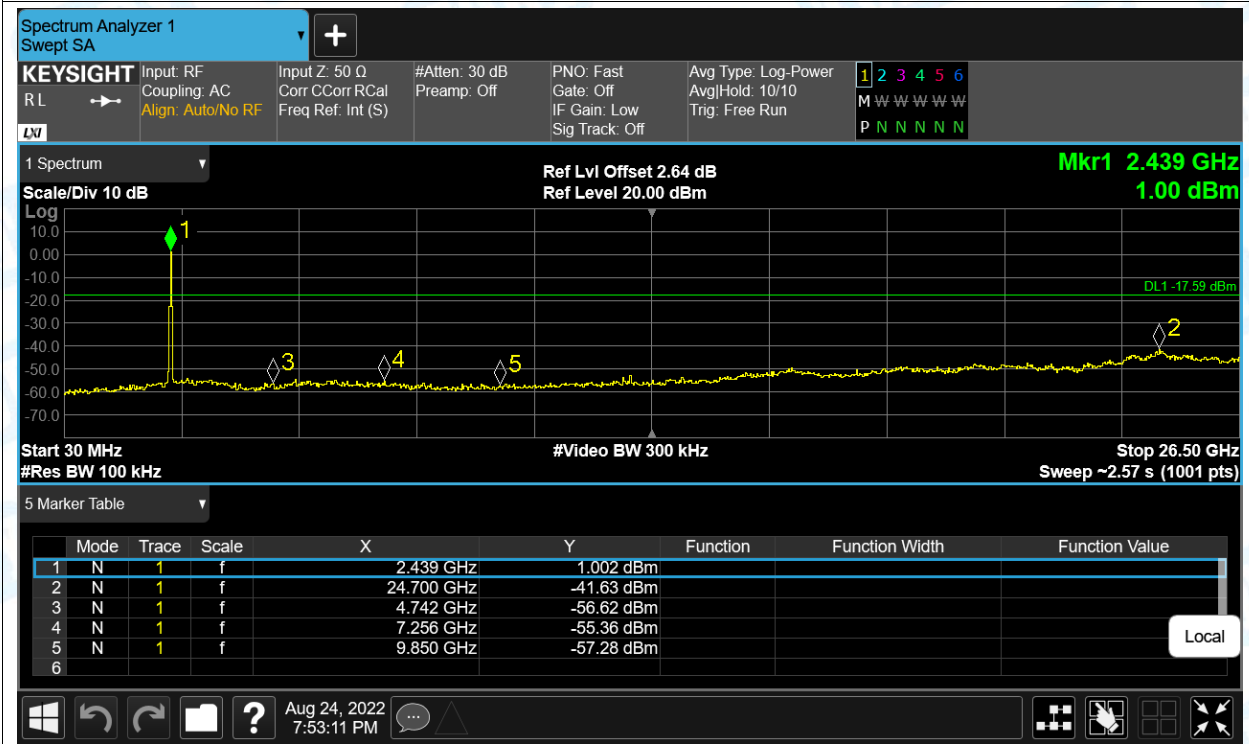
Tx. Spurious NVNT b 2412MHz Ant1 Emission



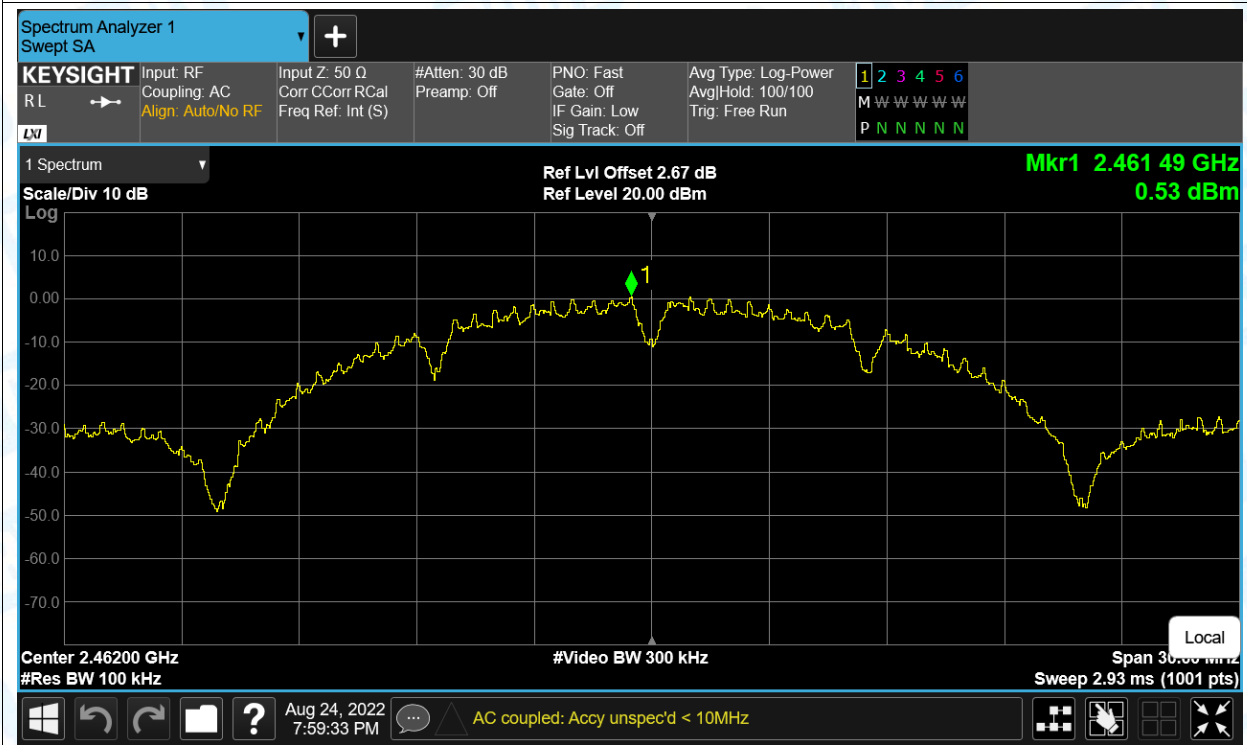
Tx. Spurious NVNT b 2437MHz Ant1 Ref



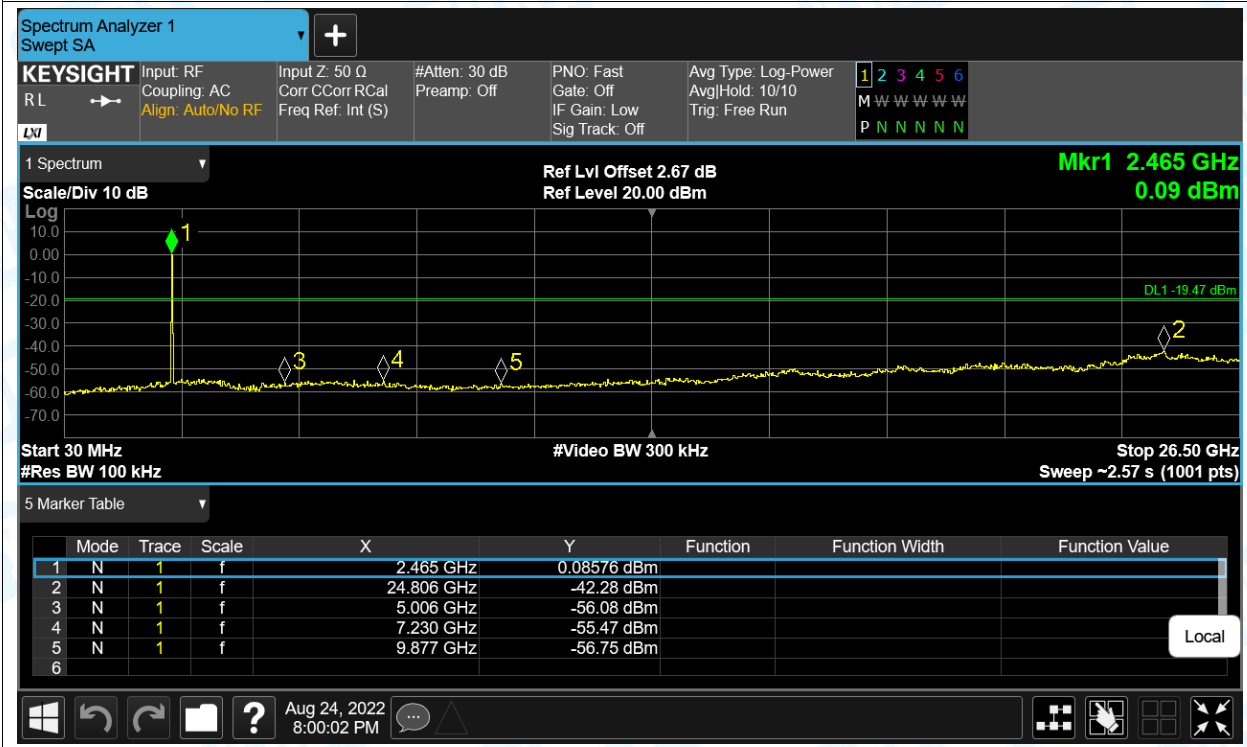
Tx. Spurious NVNT b 2437MHz Ant1 Emission



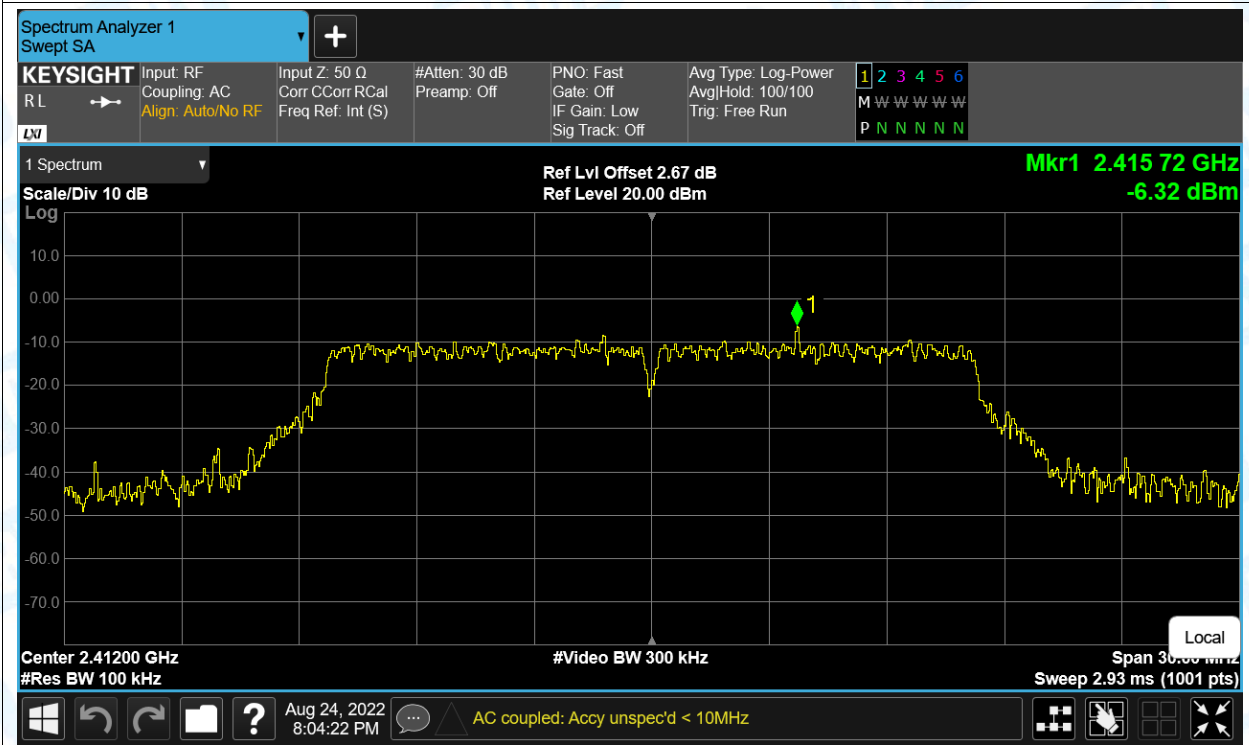
Tx. Spurious NVNT b 2462MHz Ant1 Ref



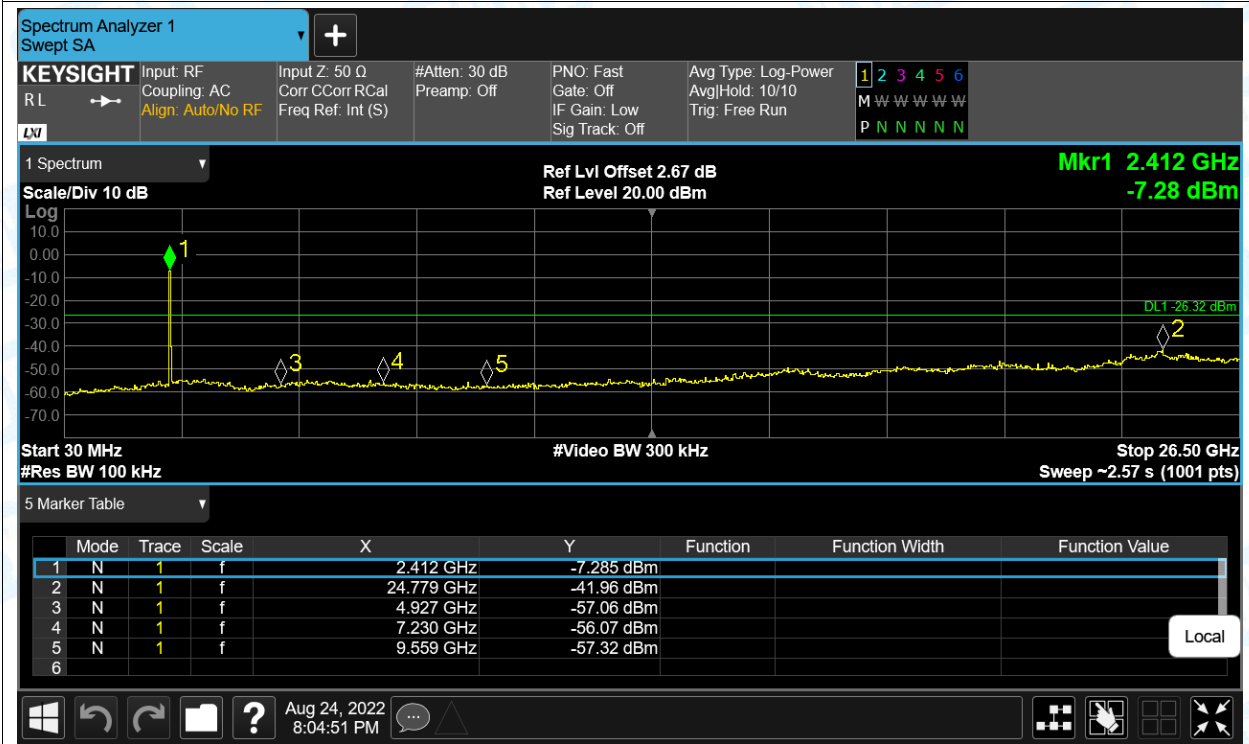
Tx. Spurious NVNT b 2462MHz Ant1 Emission



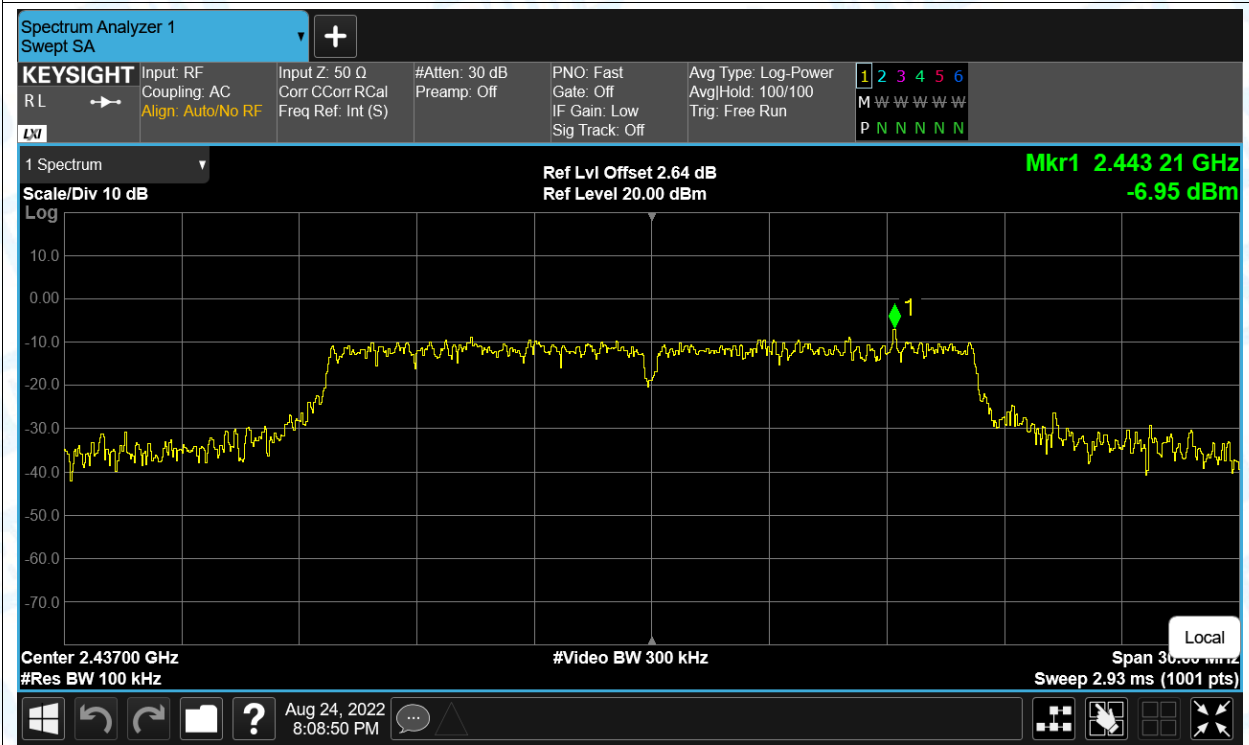
Tx. Spurious NVNT g 2412MHz Ant1 Ref



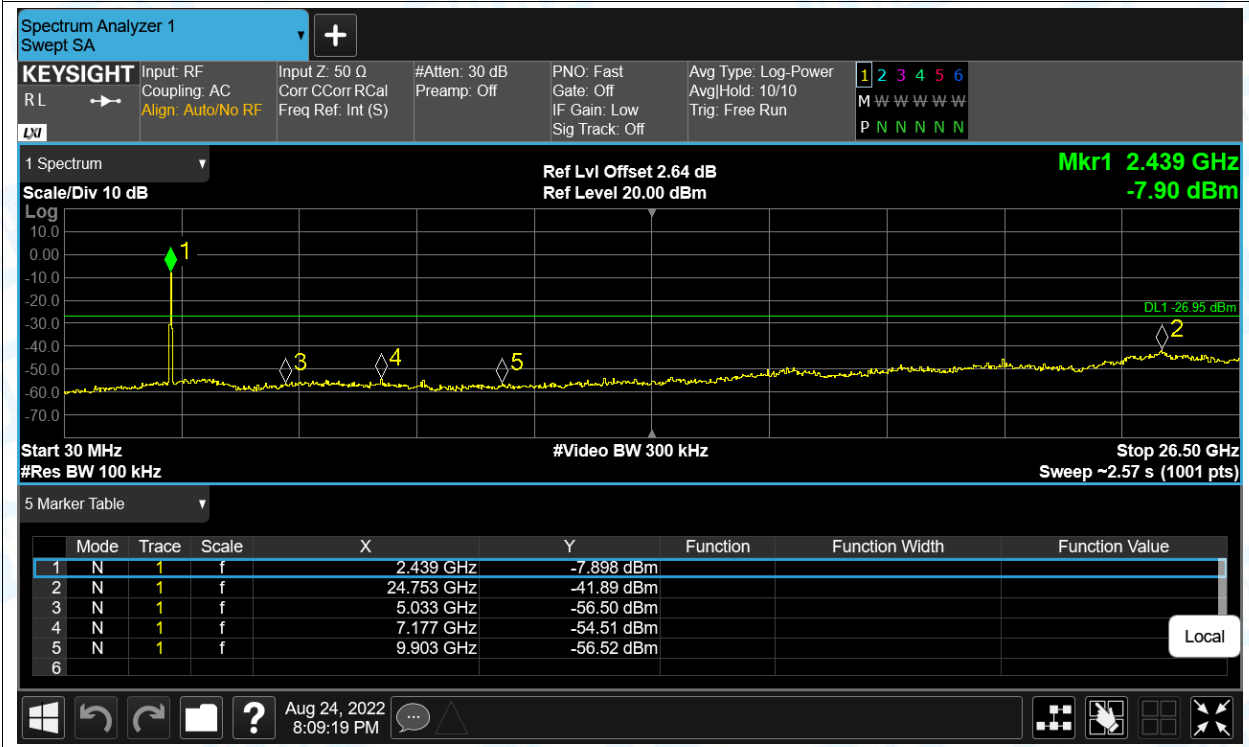
Tx. Spurious NVNT g 2412MHz Ant1 Emission



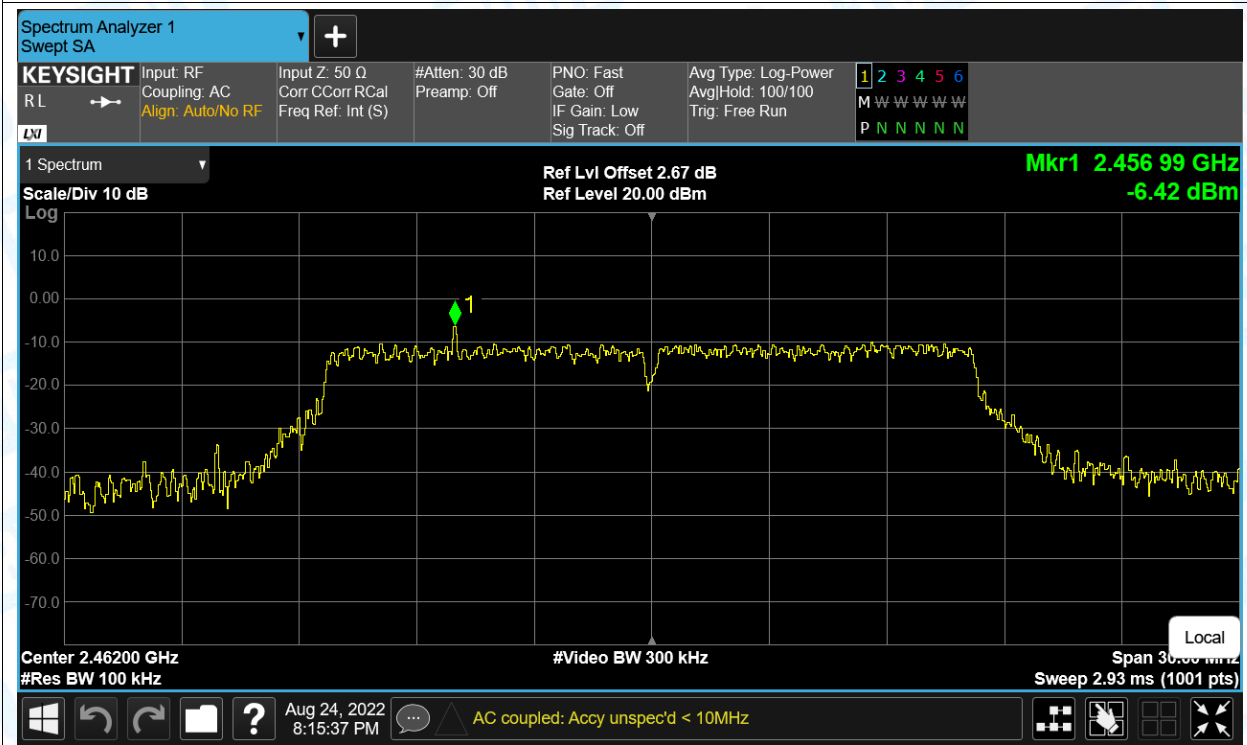
Tx. Spurious NVNT g 2437MHz Ant1 Ref



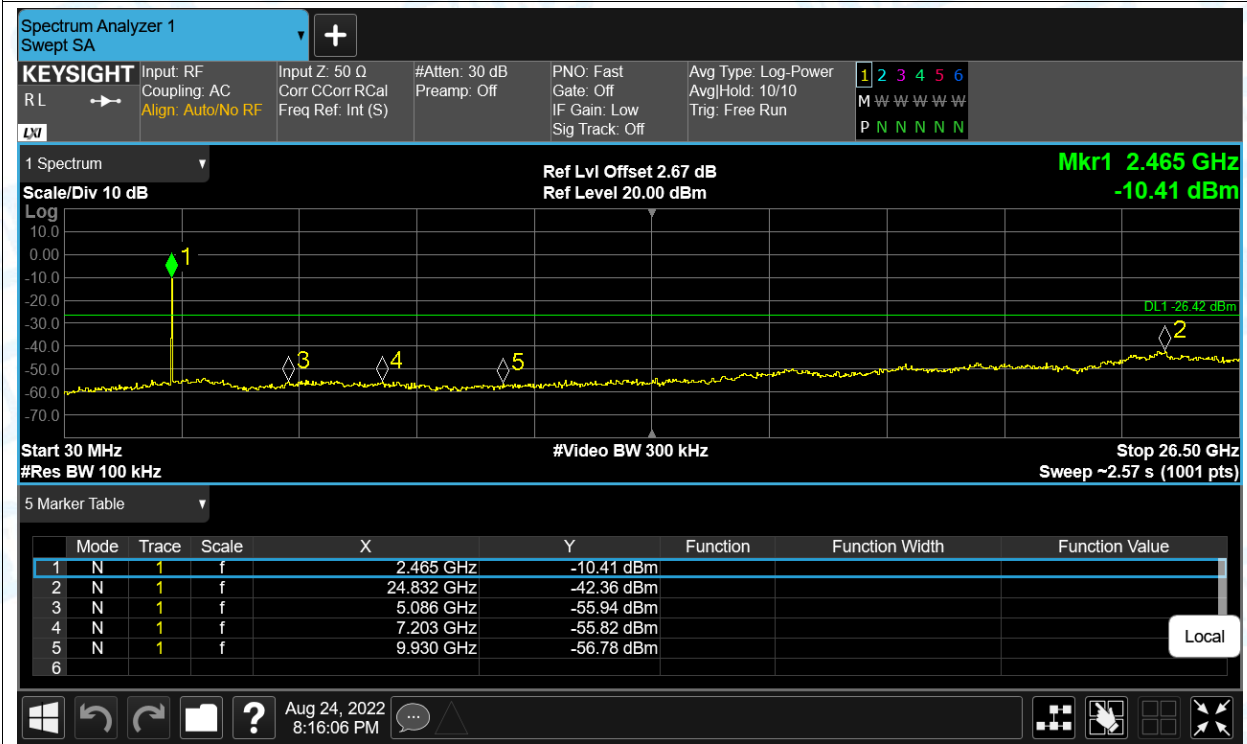
Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission

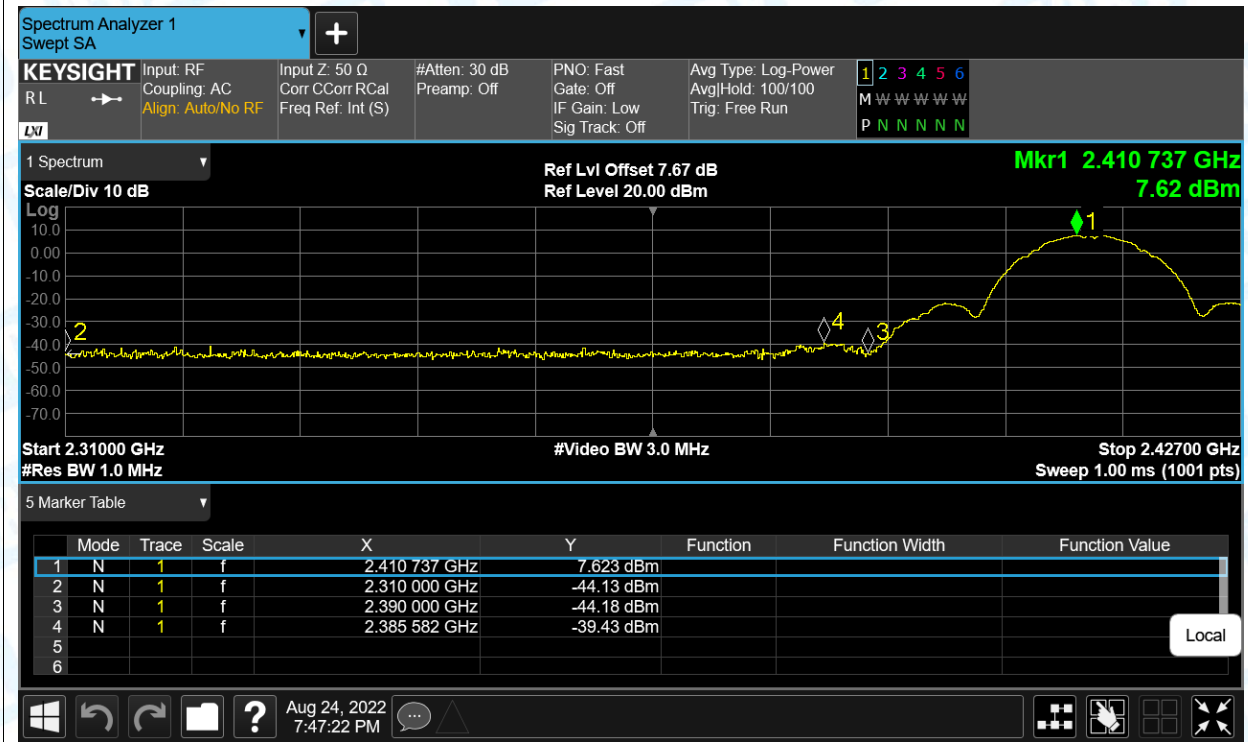


8. Restrict Band

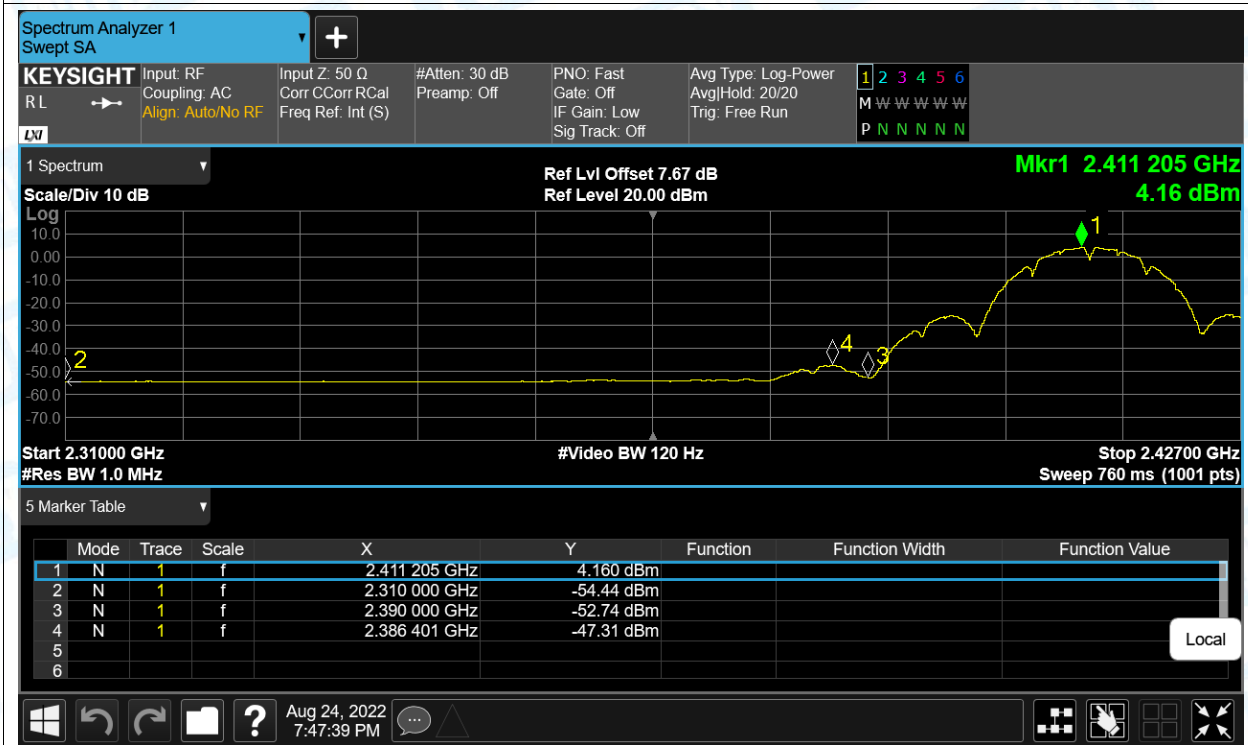
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-44.13	4.7	56.13	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-54.44	4.7	45.82	Average	54	Pass
NVNT	b	2412	Ant1	2385.582	-39.43	4.7	60.83	Peak	74	Pass
NVNT	b	2412	Ant1	2386.401	-47.31	4.7	52.95	Average	54	Pass
NVNT	b	2412	Ant1	2390	-44.18	4.7	56.08	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-52.74	4.7	47.52	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-41.24	4.7	59.02	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-49.44	4.7	50.82	Average	54	Pass
NVNT	b	2462	Ant1	2486.22	-40.91	4.7	59.35	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-49.44	4.7	50.82	Average	54	Pass
NVNT	b	2462	Ant1	2500	-43.22	4.7	57.04	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-53.67	4.7	46.59	Average	54	Pass
NVNT	g	2412	Ant1	2310	-43.83	4.7	56.43	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-54.08	4.7	46.18	Average	54	Pass
NVNT	g	2412	Ant1	2387.337	-32.83	4.7	67.43	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-47.36	4.7	52.9	Average	54	Pass
NVNT	g	2412	Ant1	2390	-37.64	4.7	62.62	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-47.2	4.7	53.06	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-36.09	4.7	64.17	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-46.62	4.7	53.64	Average	54	Pass
NVNT	g	2462	Ant1	2484.1	-33.14	4.7	67.12	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-46.62	4.7	53.64	Average	54	Pass
NVNT	g	2462	Ant1	2500	-44.4	4.7	55.86	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-53.33	4.7	46.93	Average	54	Pass

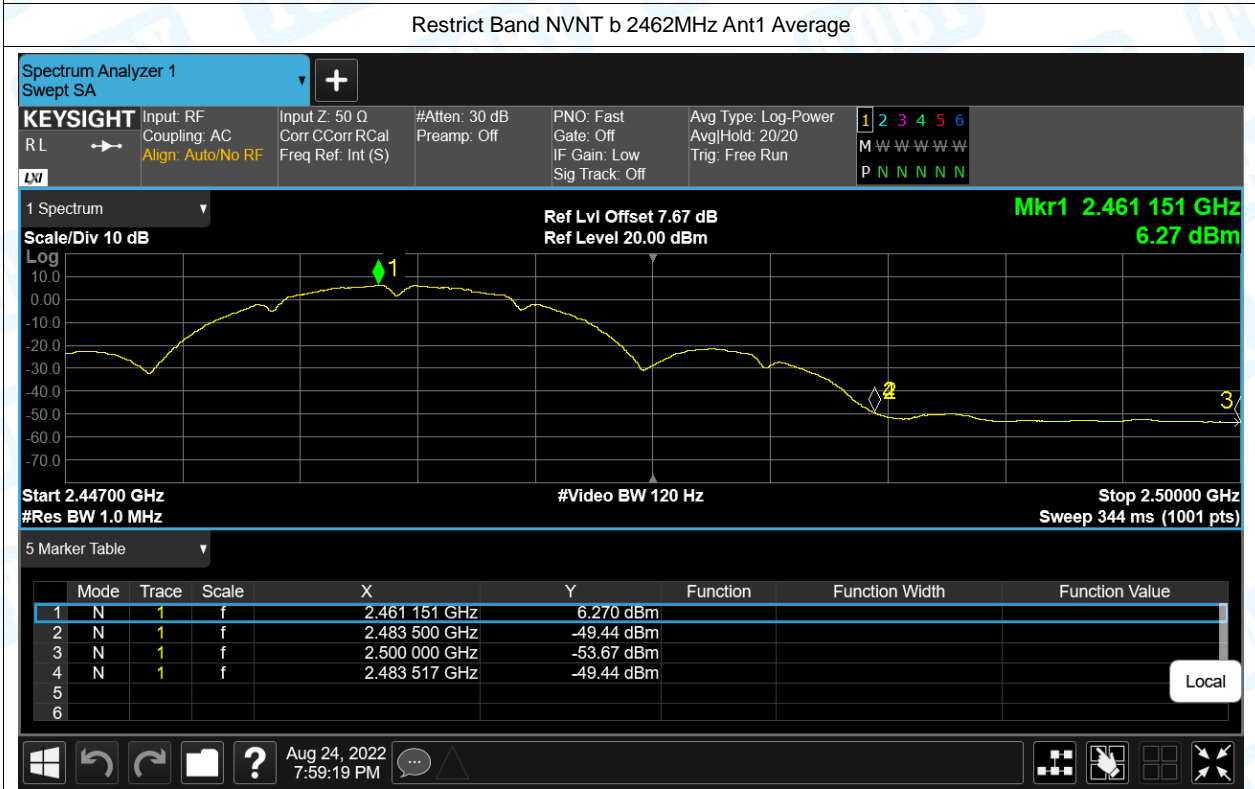
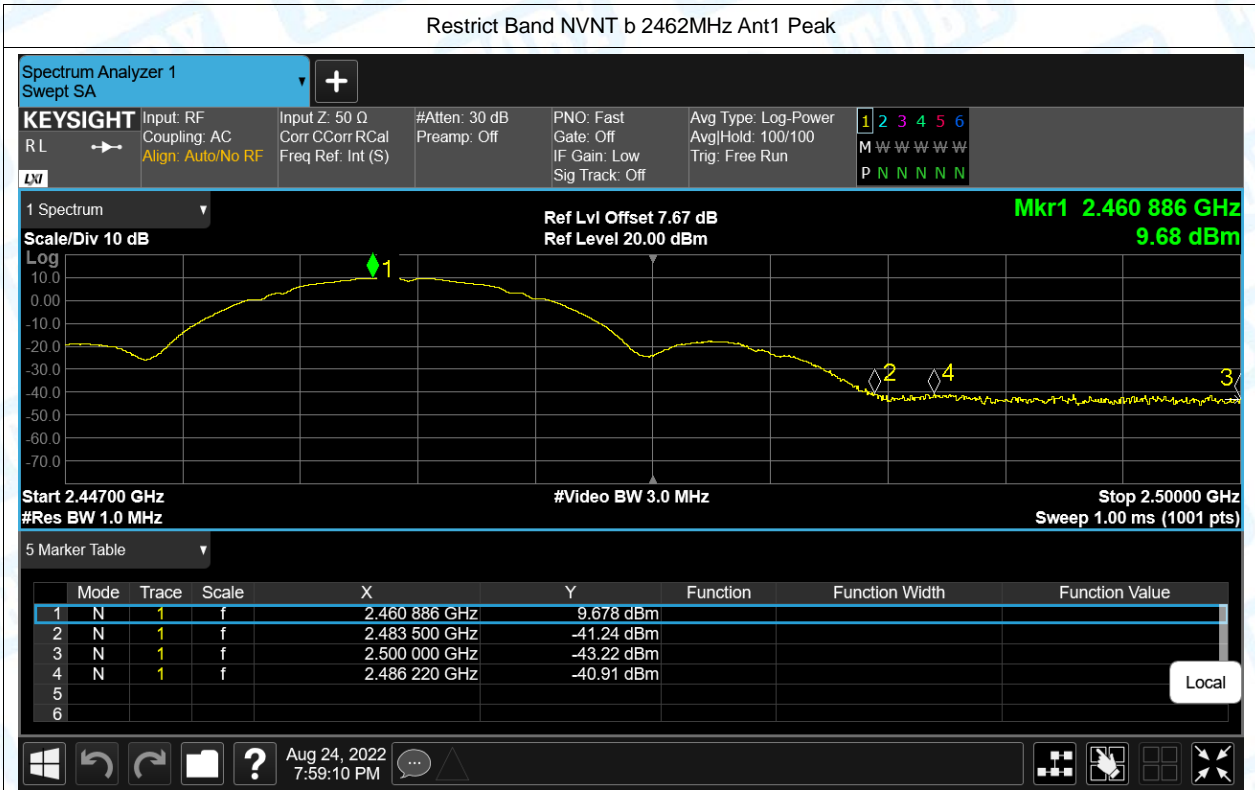
Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak

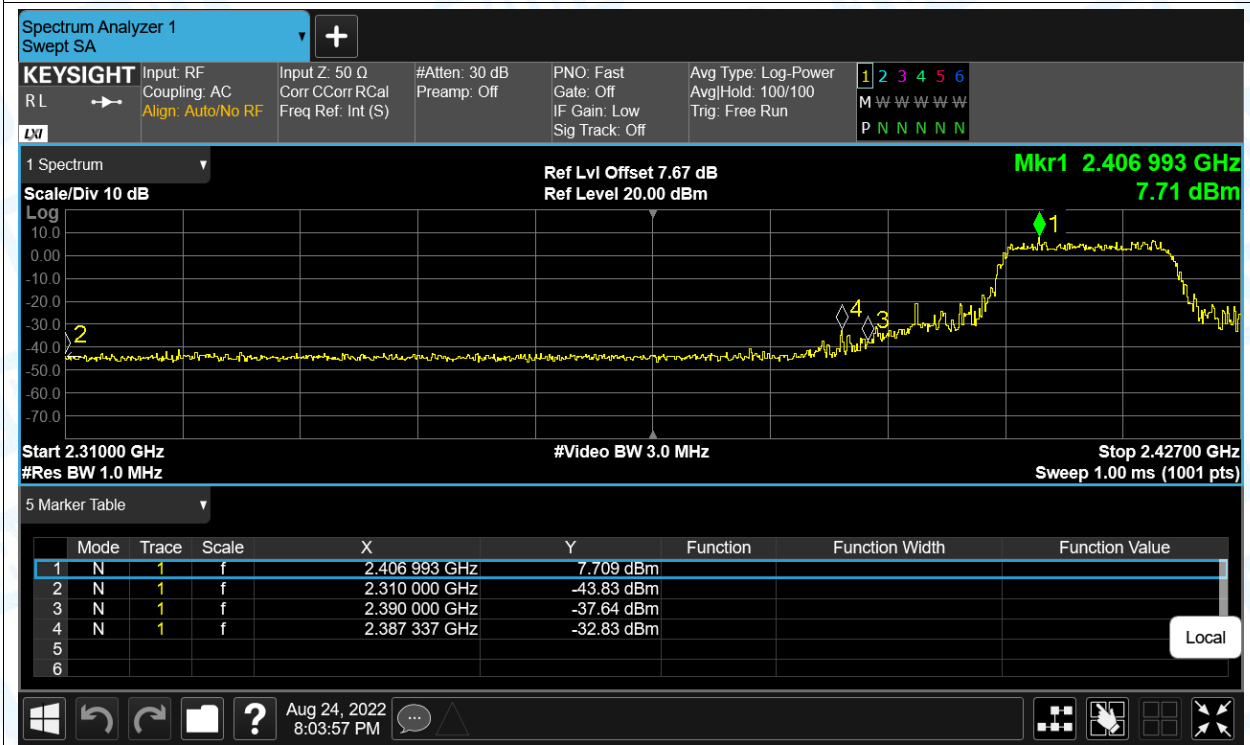


Restrict Band NVNT b 2412MHz Ant1 Average

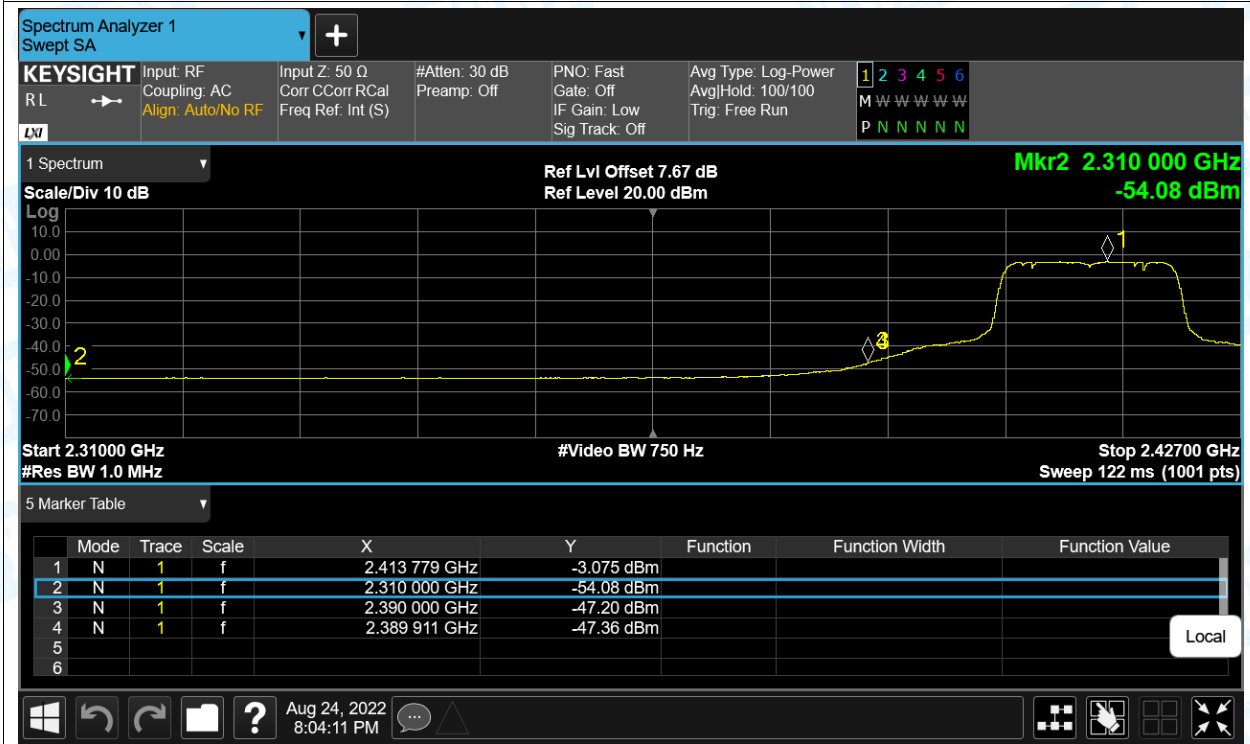


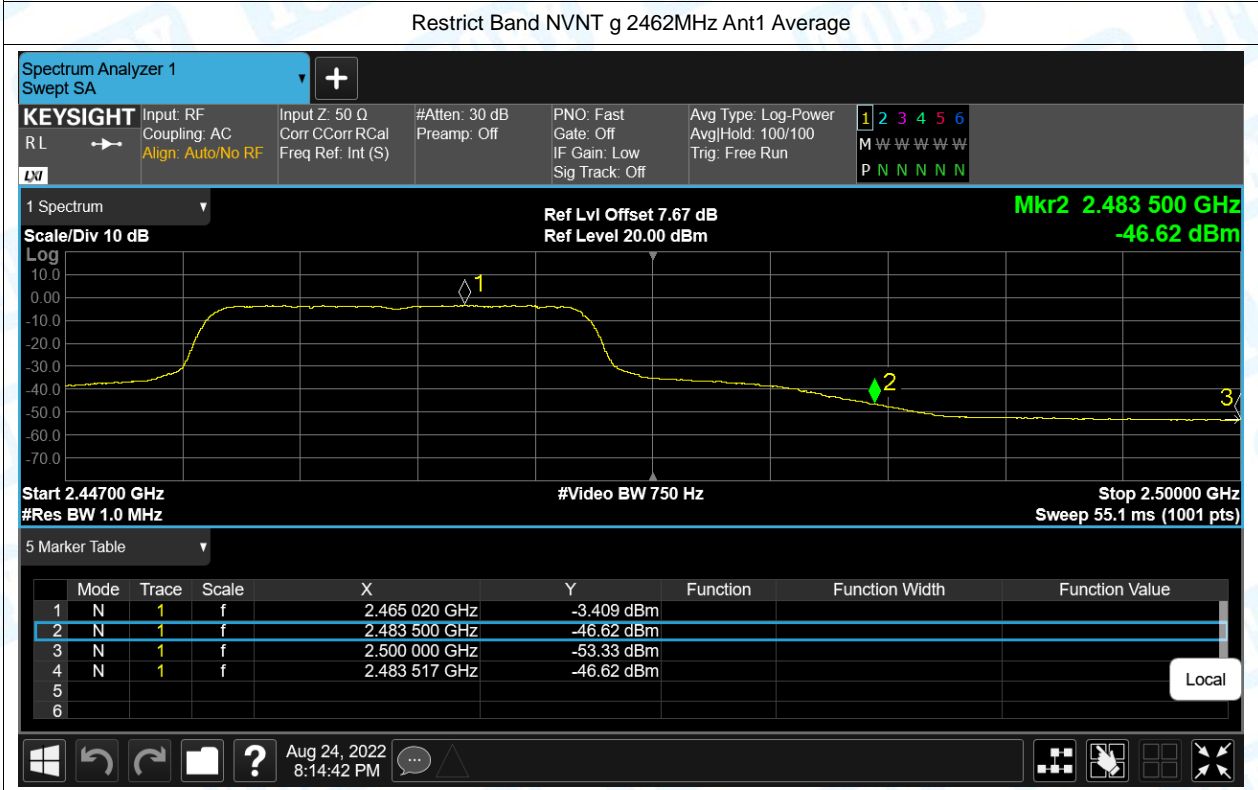
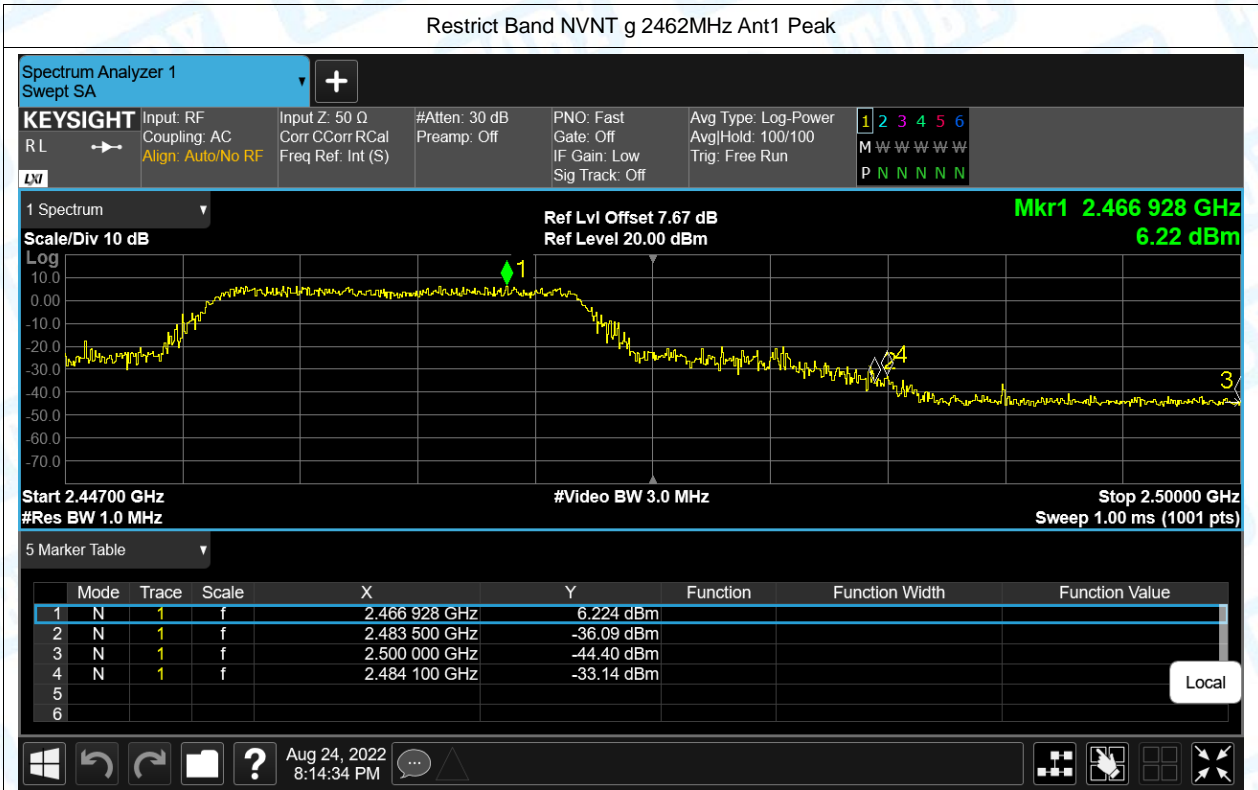


Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average





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