RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	IOT
Test Model:	IOT-WB2S-LC3
Sample ID:	202209-0223-01_2
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.3V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202209-0223-31	

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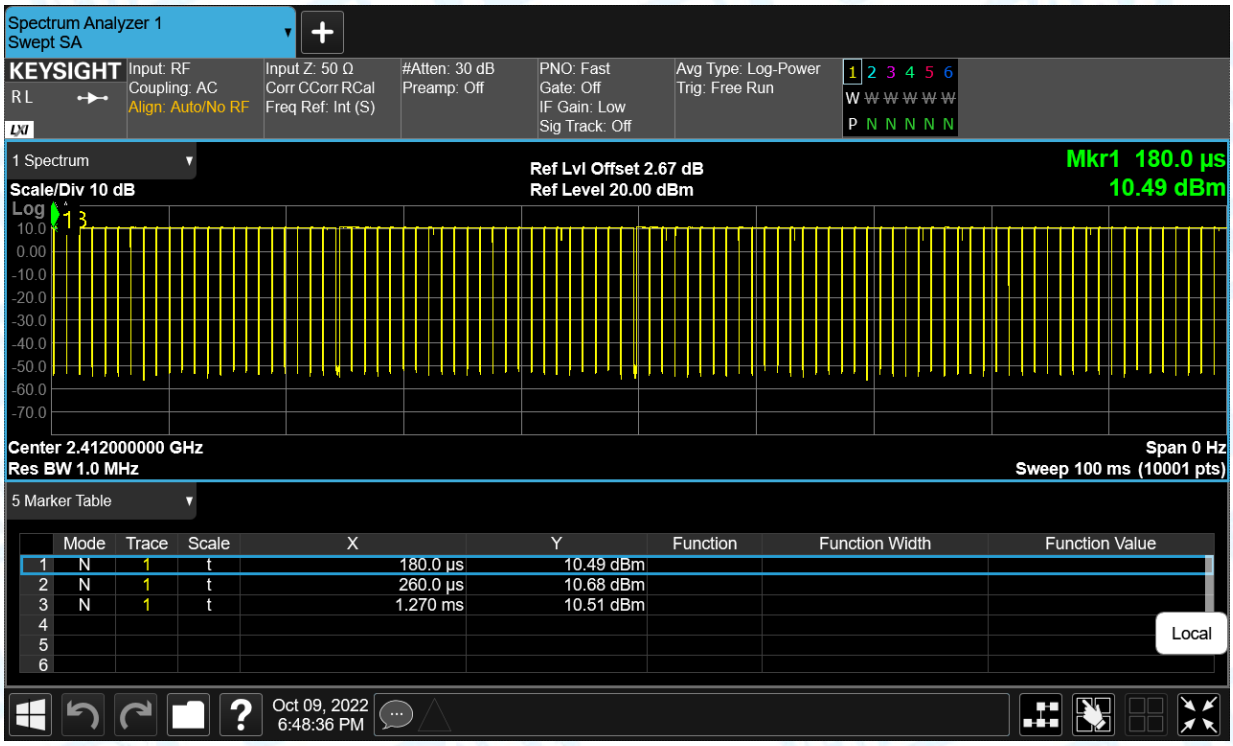
1. Duty Cycle

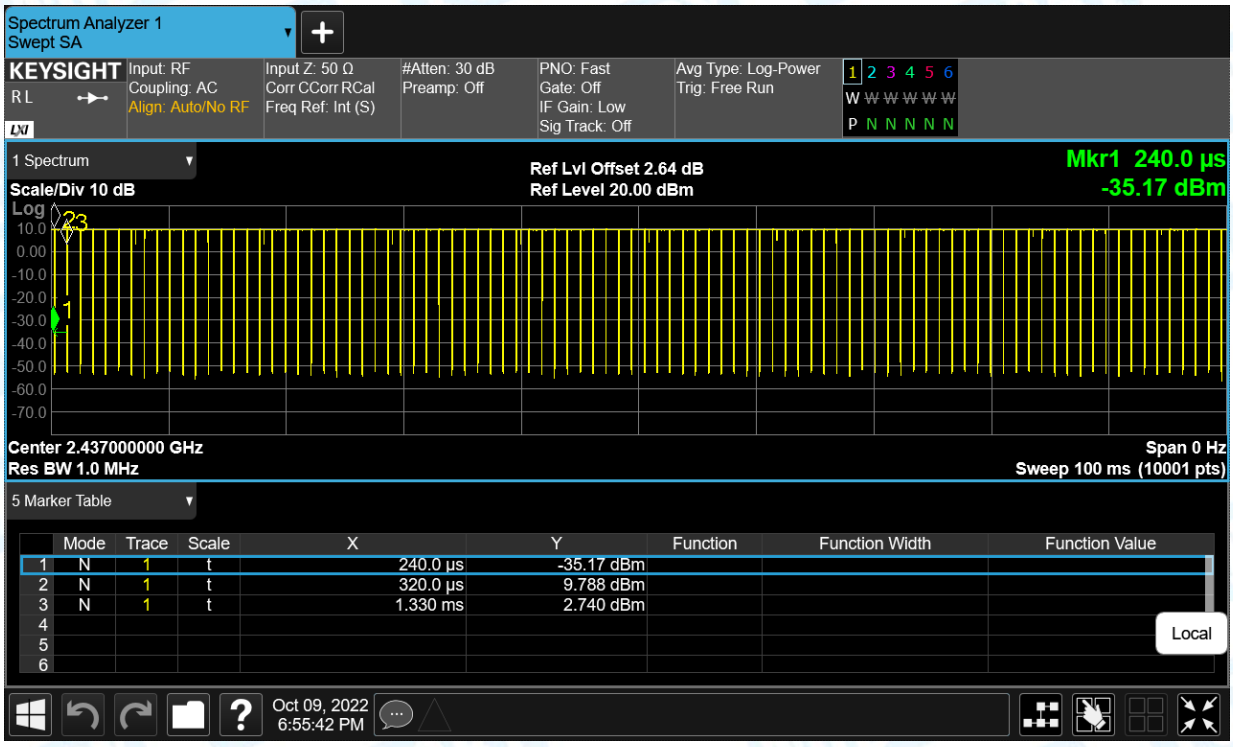
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	92.66	0.33	0.99
NVNT	b	2437	Ant1	92.66	0.33	0.99
NVNT	b	2462	Ant1	92.66	0.33	0.99
NVNT	g	2412	Ant1	93.85	0.28	1.64
NVNT	g	2437	Ant1	95.38	0.21	1.61
NVNT	g	2462	Ant1	95.38	0.21	1.61
NVNT	n(HT20)	2412	Ant1	93.85	0.28	1.64
NVNT	n(HT20)	2437	Ant1	93.85	0.28	1.64
NVNT	n(HT20)	2462	Ant1	95.38	0.21	1.61
NVNT	n(HT40)	2422	Ant1	32.4	4.89	1.72
NVNT	n(HT40)	2437	Ant1	31.87	4.97	1.72
NVNT	n(HT40)	2452	Ant1	32.78	4.84	1.69

Test Graphs

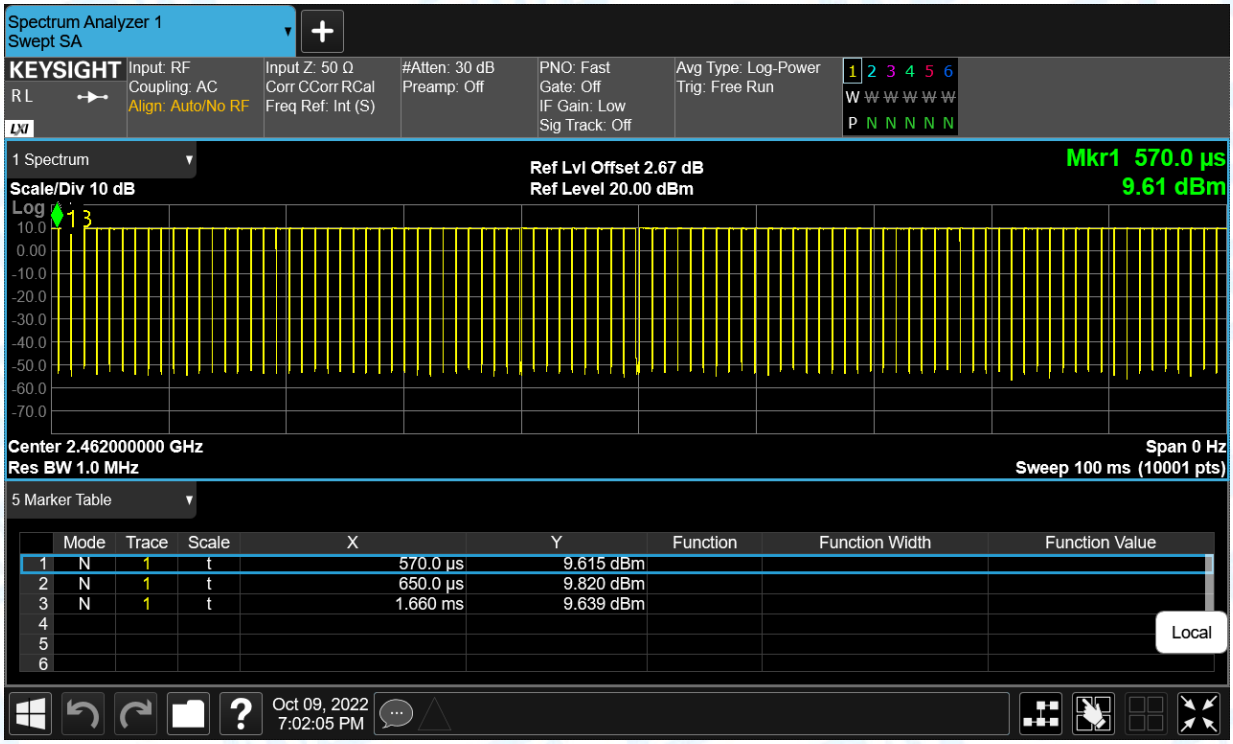
Duty Cycle NVNT b 2412MHz Ant1



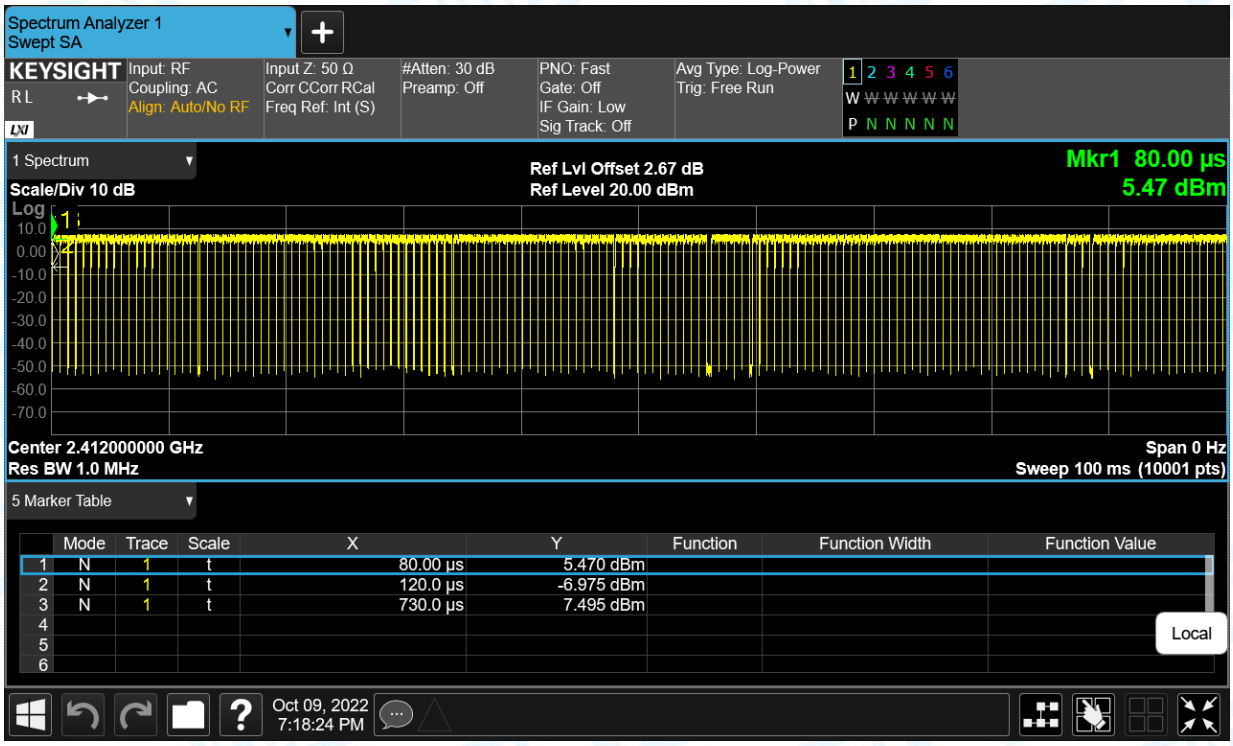
Duty Cycle NVNT b 2437MHz Ant1



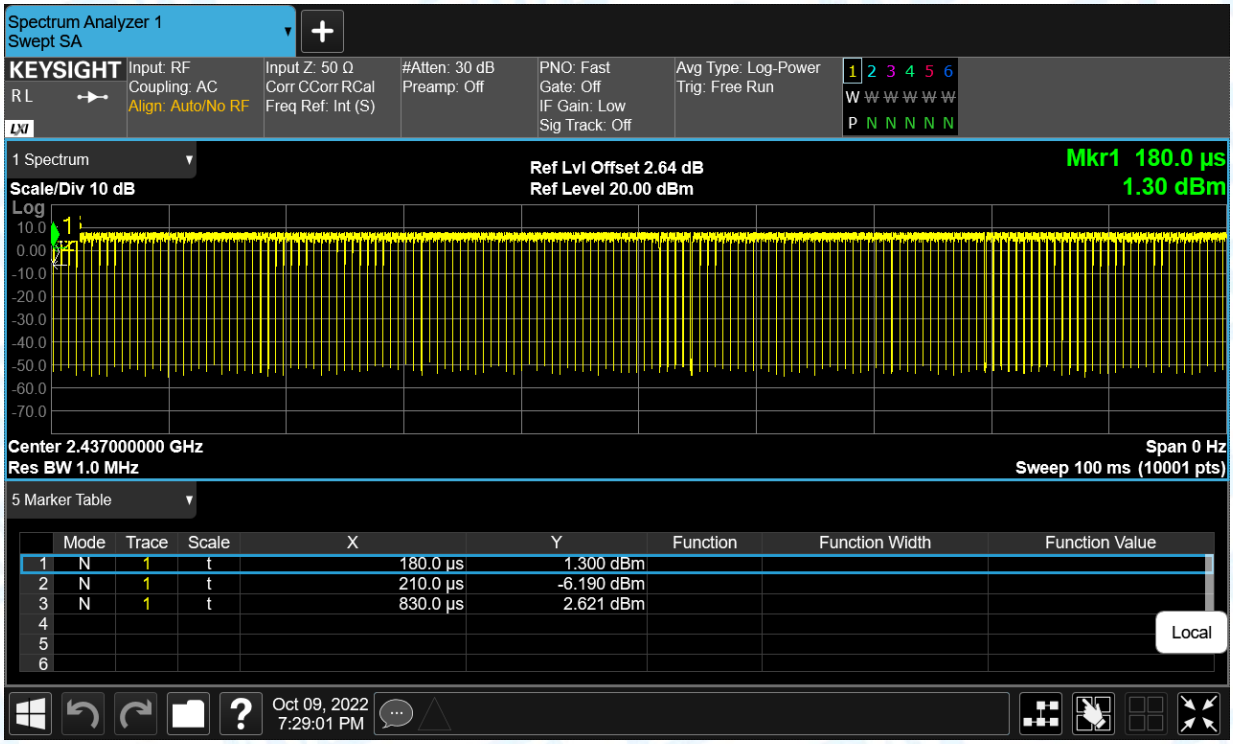
Duty Cycle NVNT b 2462MHz Ant1



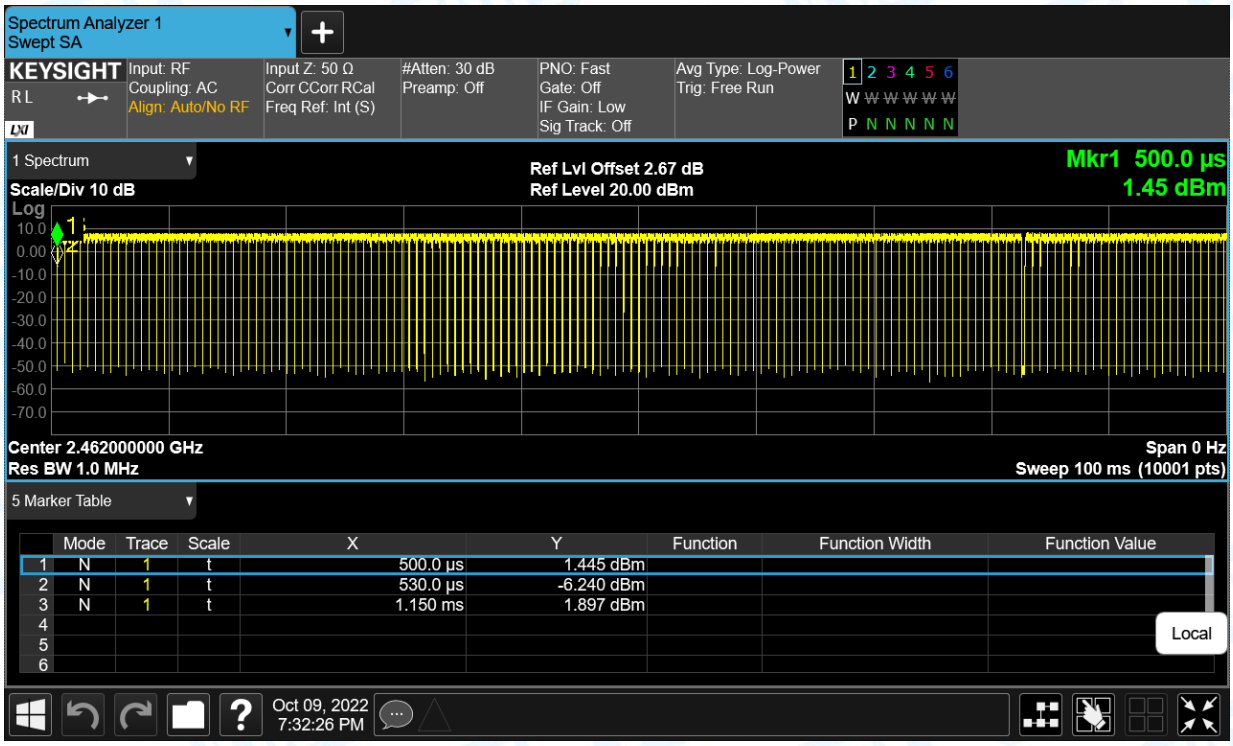
Duty Cycle NVNT g 2412MHz Ant1



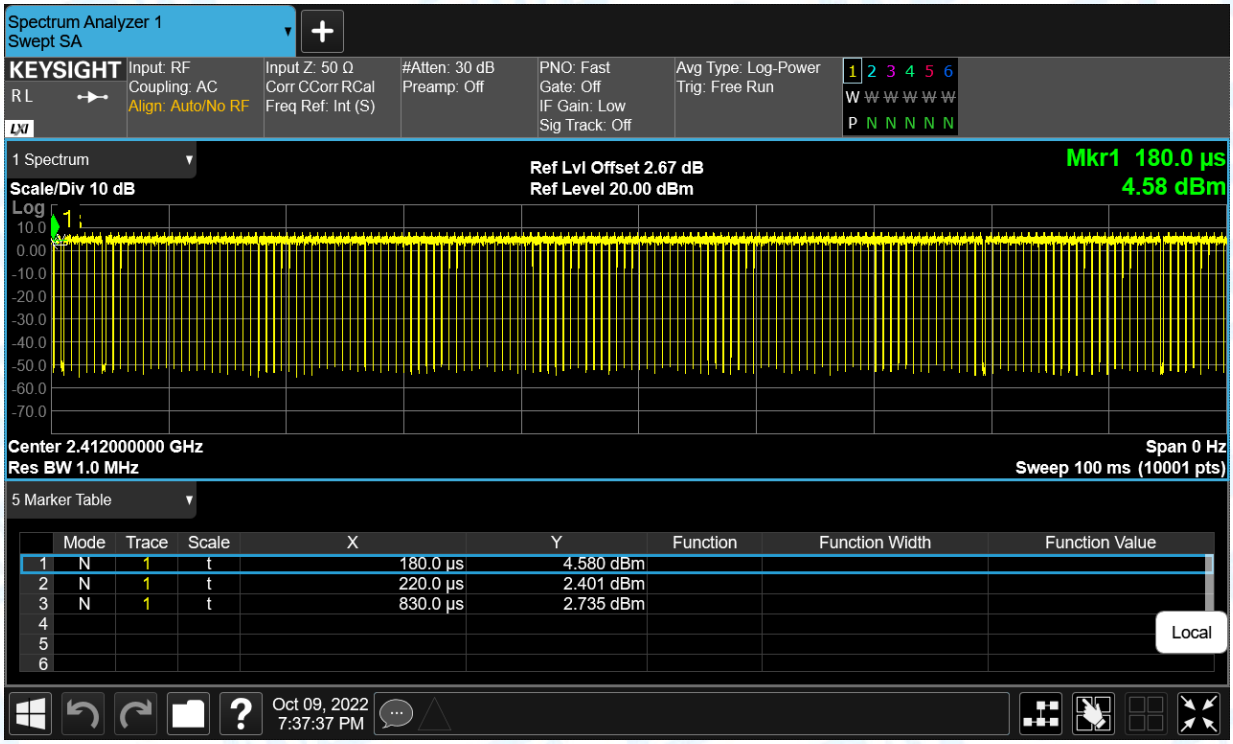
Duty Cycle NVNT g 2437MHz Ant1



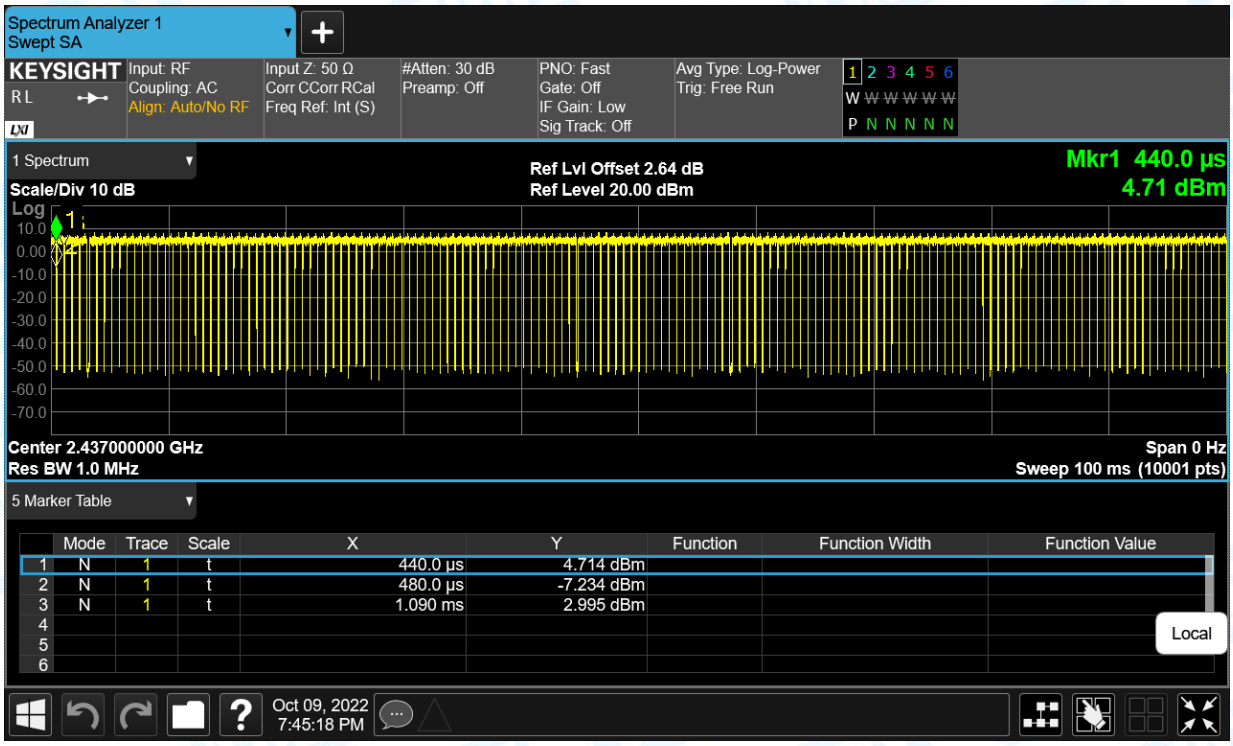
Duty Cycle NVNT g 2462MHz Ant1



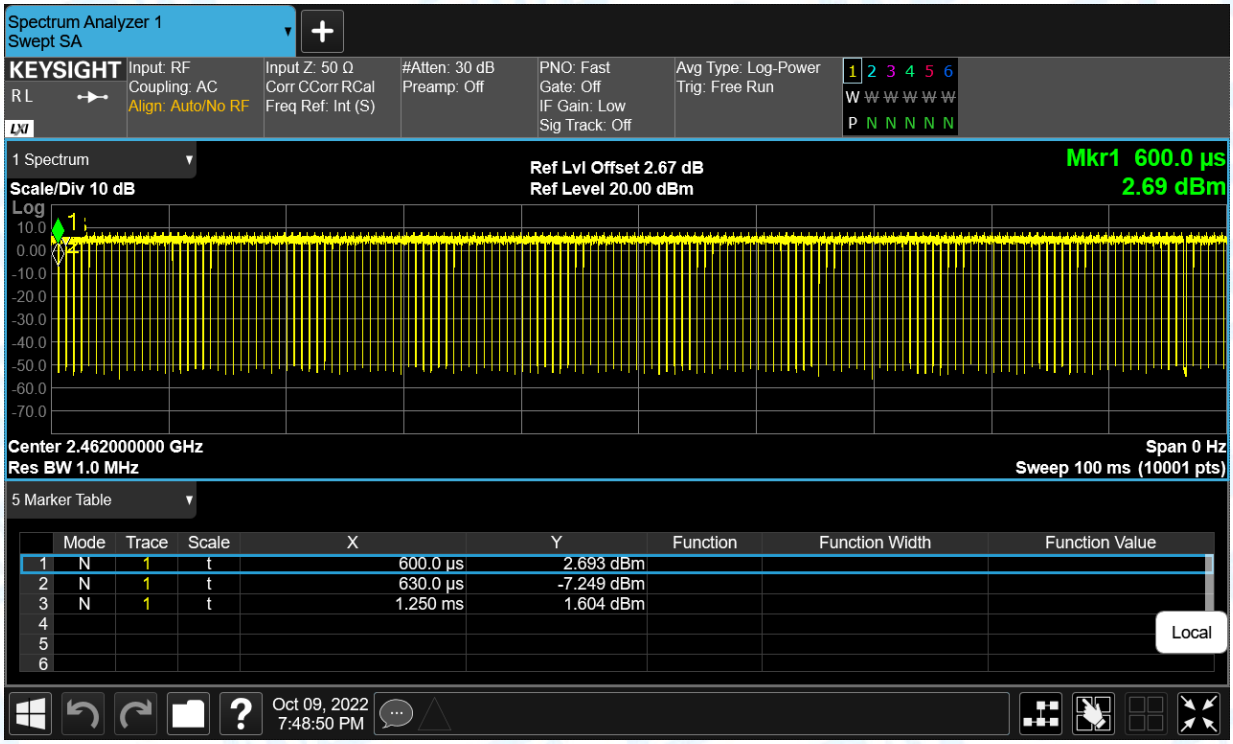
Duty Cycle NVNT n(HT20) 2412MHz Ant1



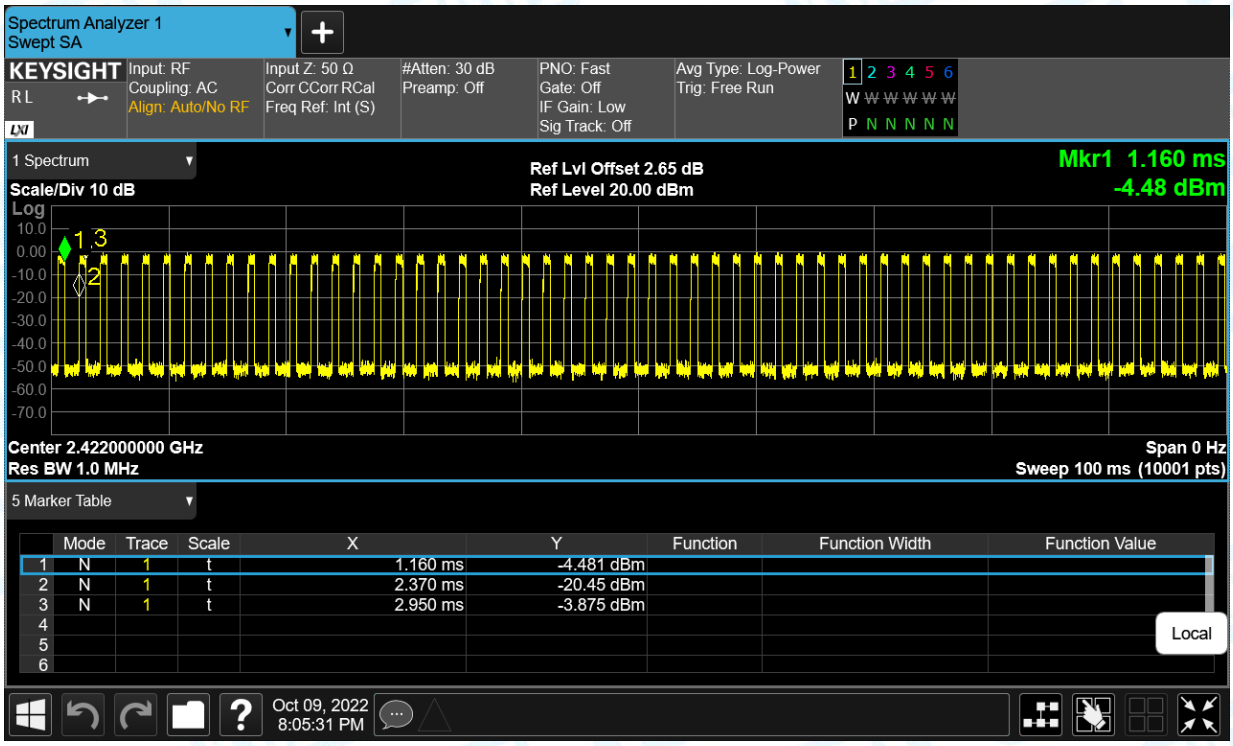
Duty Cycle NVNT n(HT20) 2437MHz Ant1



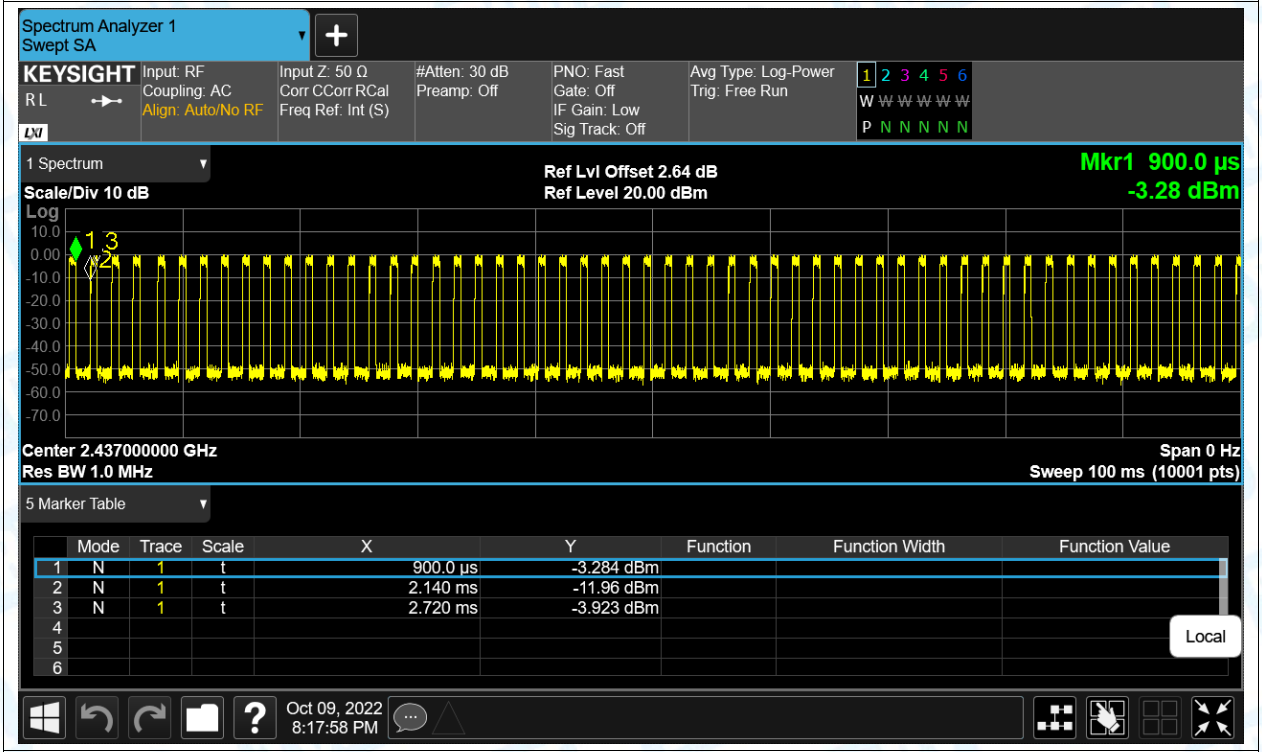
Duty Cycle NVNT n(HT20) 2462MHz Ant1



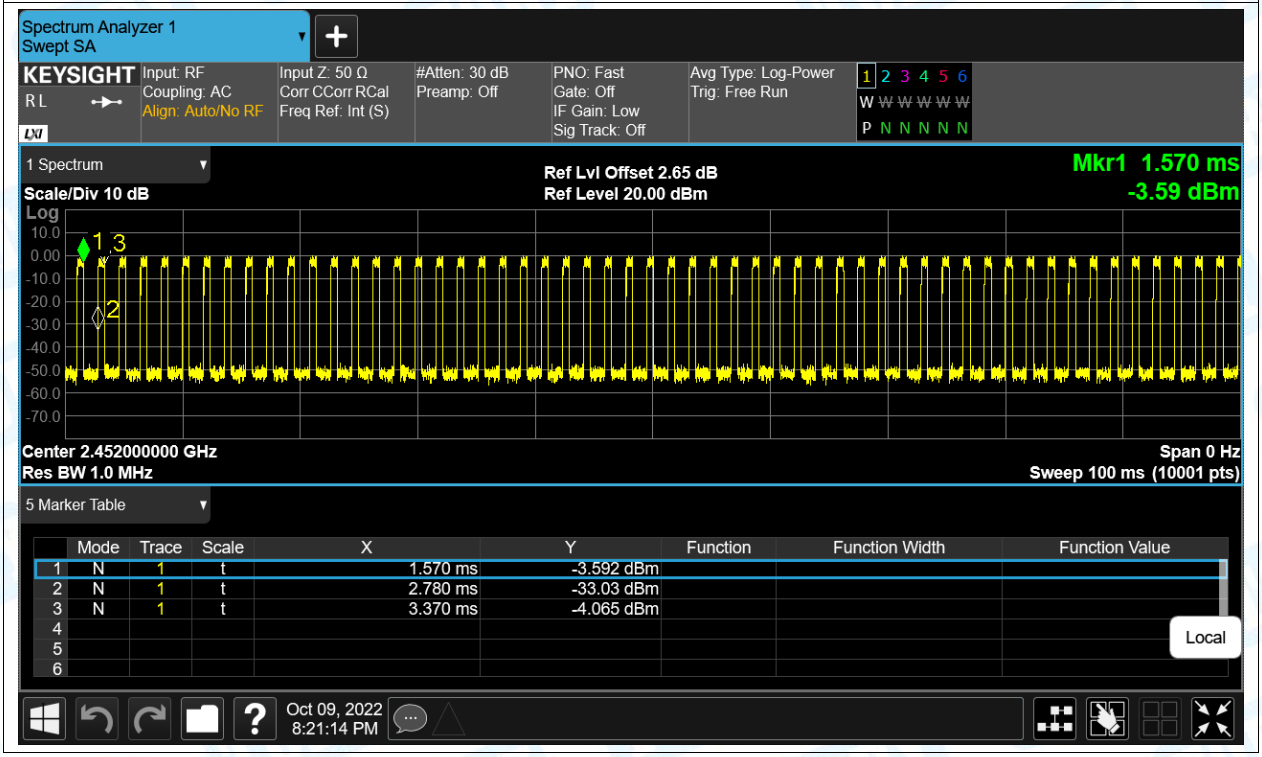
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.338	30	Pass
NVNT	b	2437	Ant1	16.427	30	Pass
NVNT	b	2462	Ant1	16.463	30	Pass
NVNT	g	2412	Ant1	17.427	30	Pass
NVNT	g	2437	Ant1	17.777	30	Pass
NVNT	g	2462	Ant1	17.831	30	Pass
NVNT	n(HT20)	2412	Ant1	16.966	30	Pass
NVNT	n(HT20)	2437	Ant1	17.006	30	Pass
NVNT	n(HT20)	2462	Ant1	16.92	30	Pass
NVNT	n(HT40)	2422	Ant1	13.886	30	Pass
NVNT	n(HT40)	2437	Ant1	14.58	30	Pass
NVNT	n(HT40)	2452	Ant1	14.52	30	Pass

3. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.54	0.5	Pass
NVNT	b	2437	Ant1	9.53	0.5	Pass
NVNT	b	2462	Ant1	9.12	0.5	Pass
NVNT	g	2412	Ant1	16.31	0.5	Pass
NVNT	g	2437	Ant1	16.05	0.5	Pass
NVNT	g	2462	Ant1	16.31	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.37	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.56	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.54	0.5	Pass
NVNT	n(HT40)	2422	Ant1	36.08	0.5	Pass
NVNT	n(HT40)	2437	Ant1	34.67	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.41	0.5	Pass

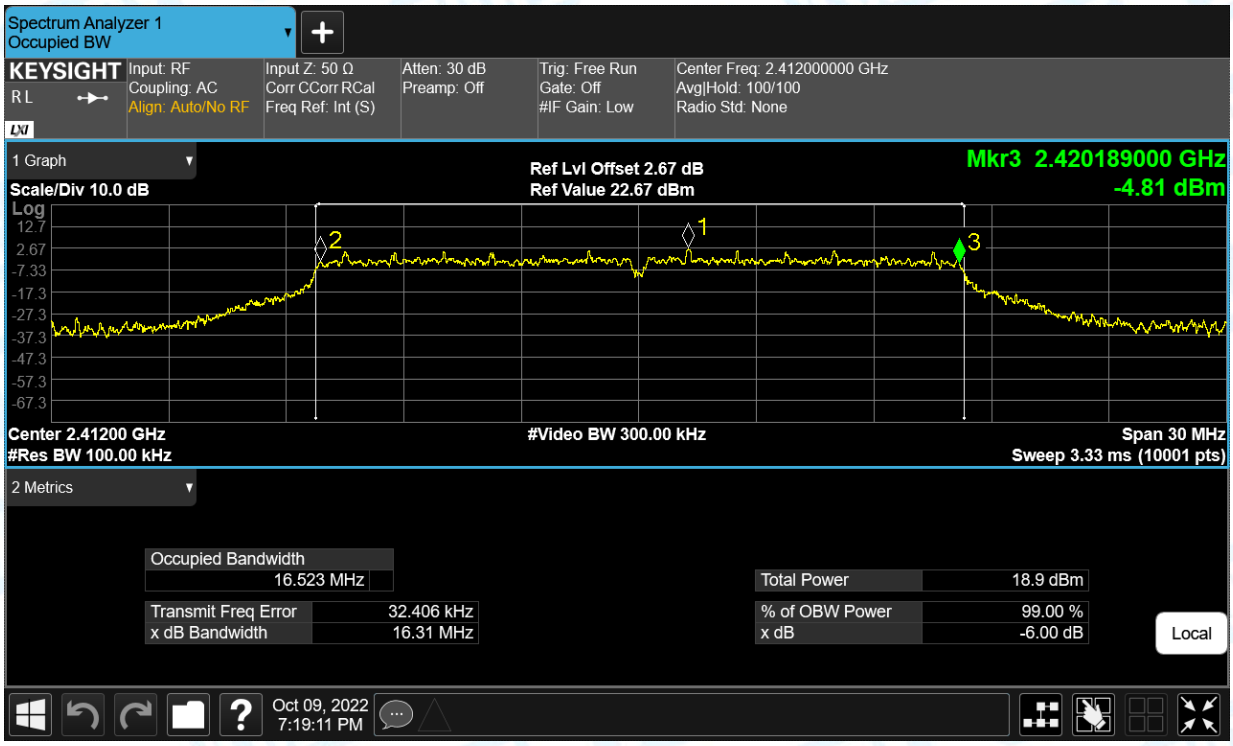
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

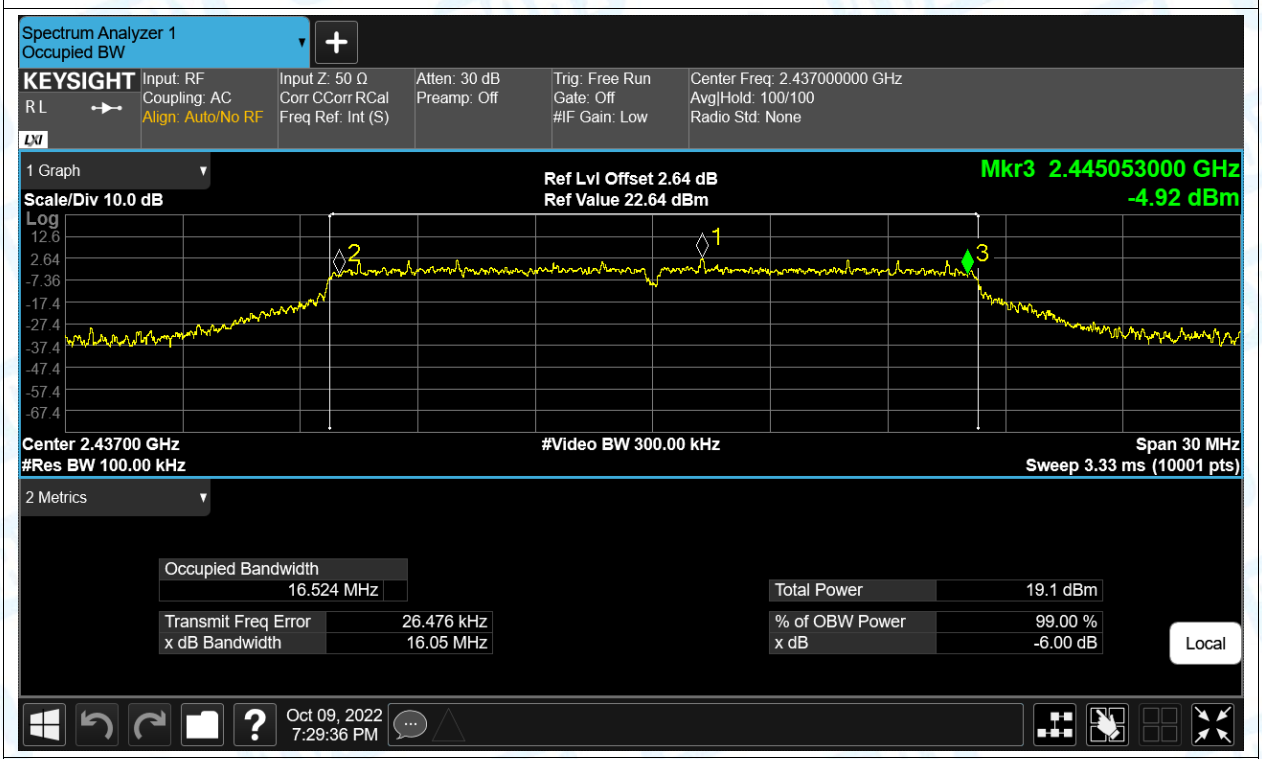
-6dB Bandwidth NVNT b 2437MHz Ant1

-6dB Bandwidth NVNT b 2462MHz Ant1

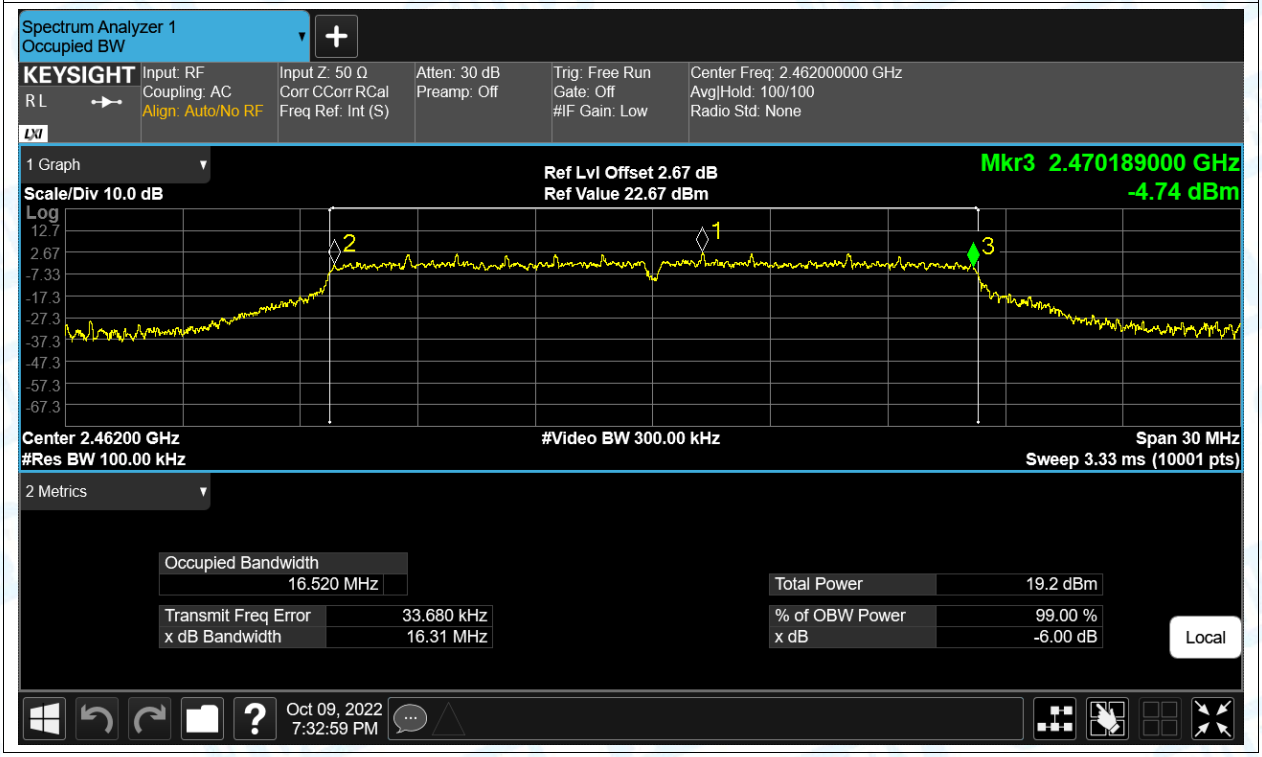
-6dB Bandwidth NVNT g 2412MHz Ant1



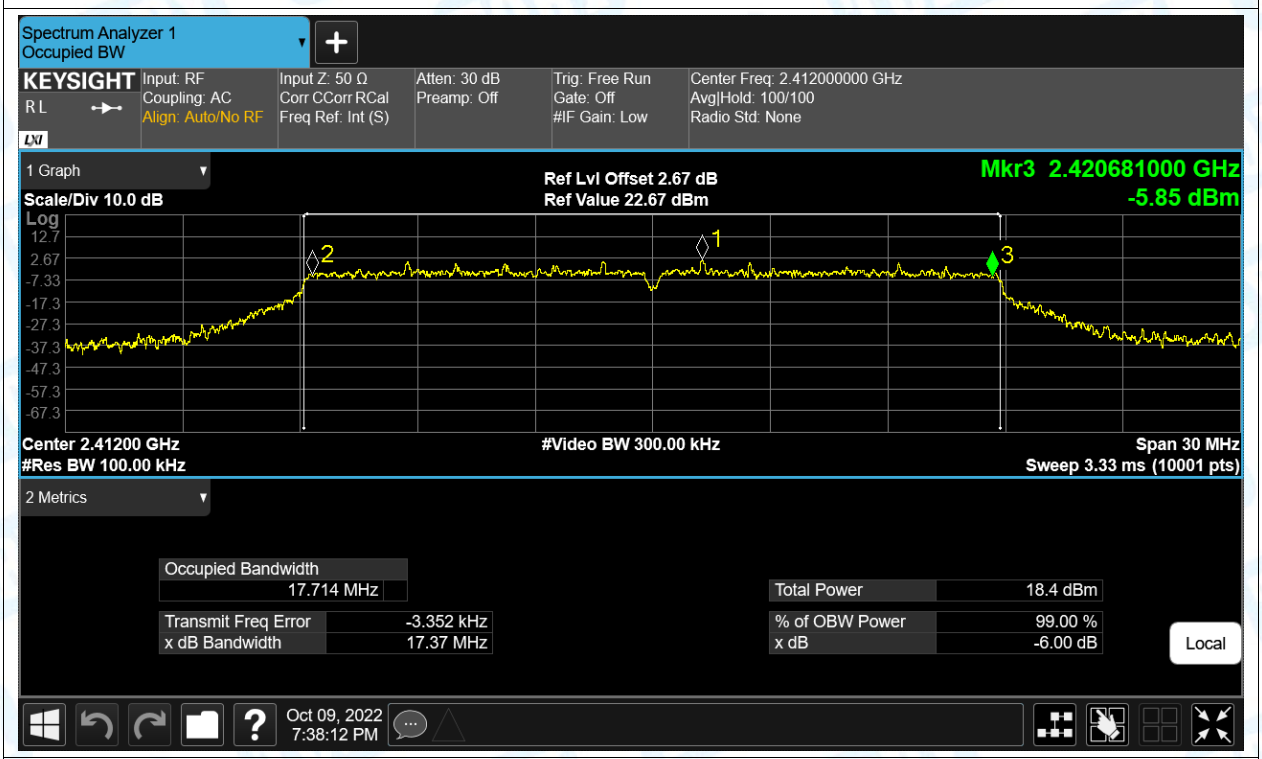
-6dB Bandwidth NVNT g 2437MHz Ant1



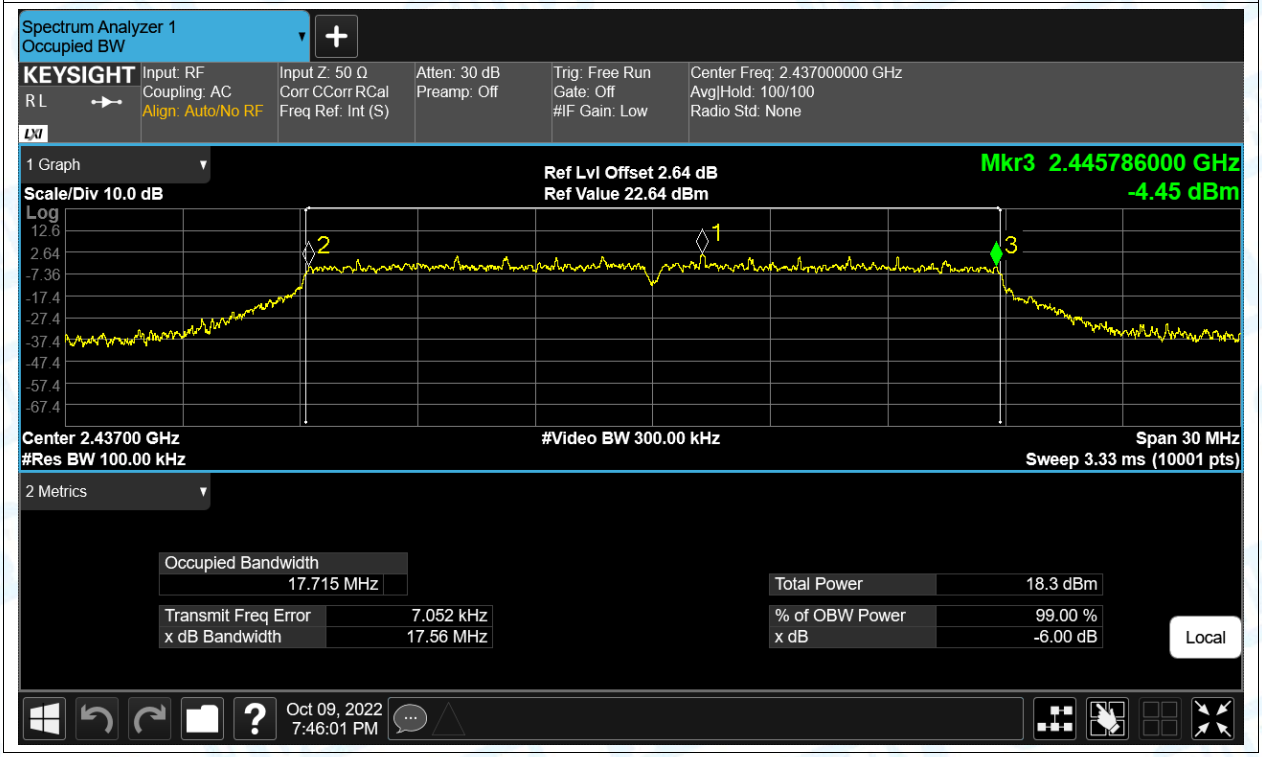
-6dB Bandwidth NVNT g 2462MHz Ant1



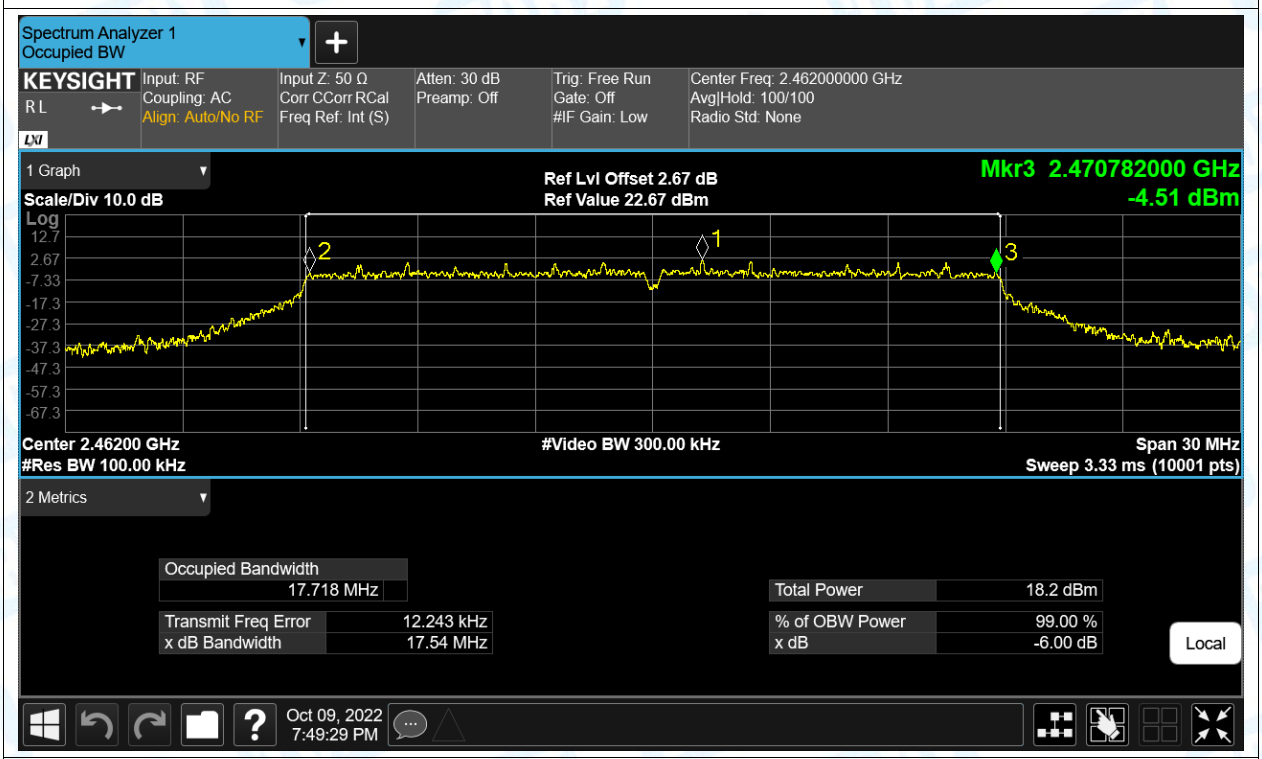
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



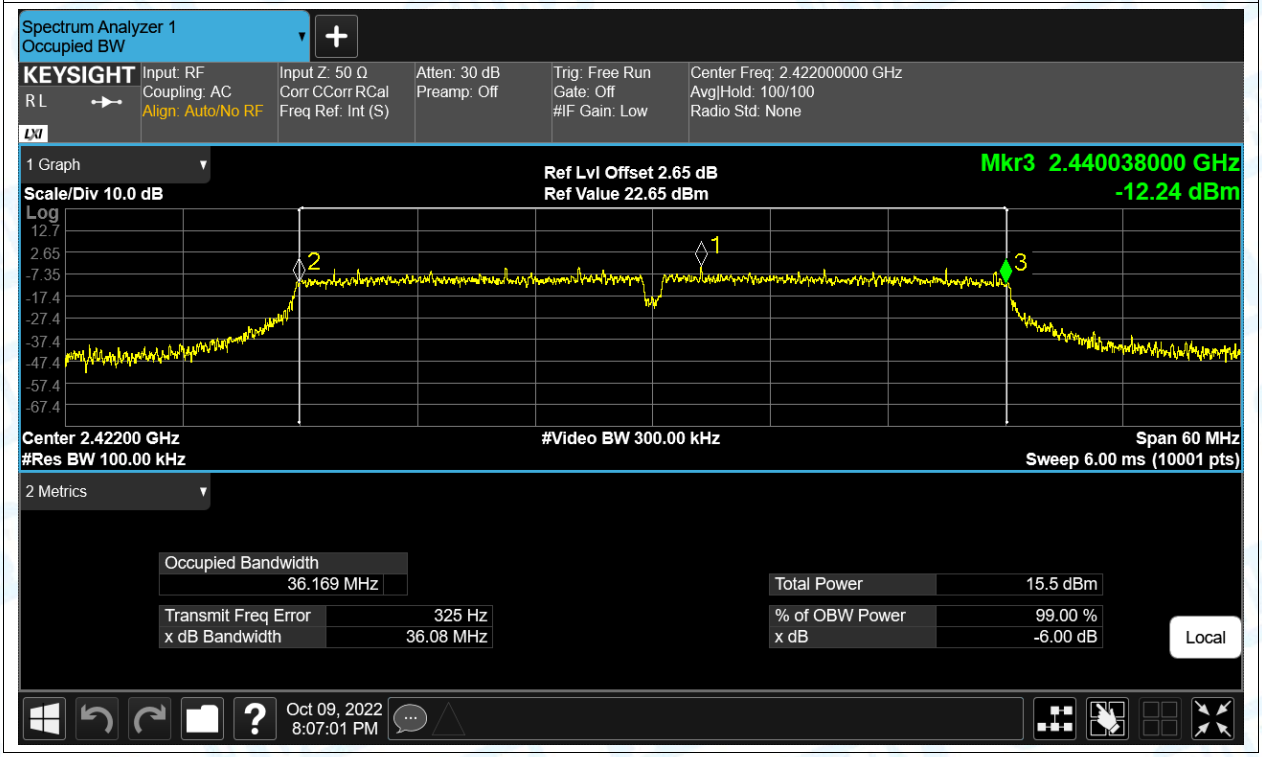
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



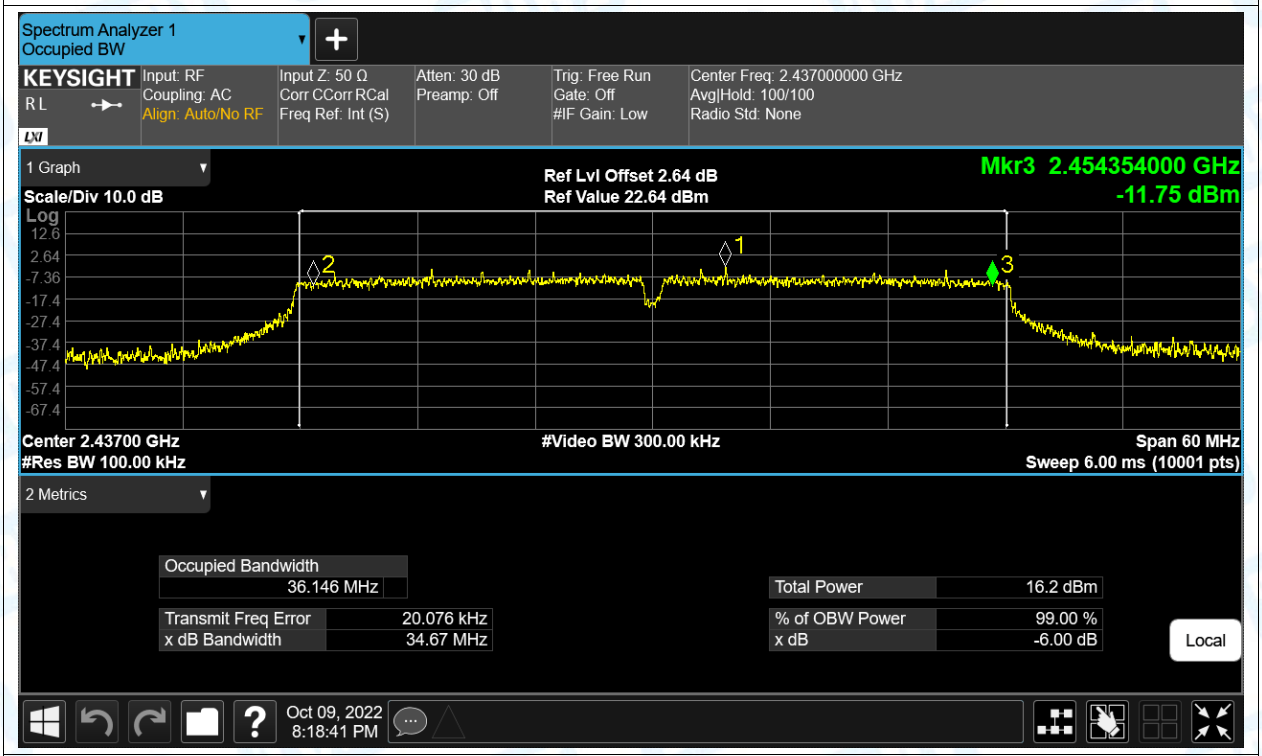
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



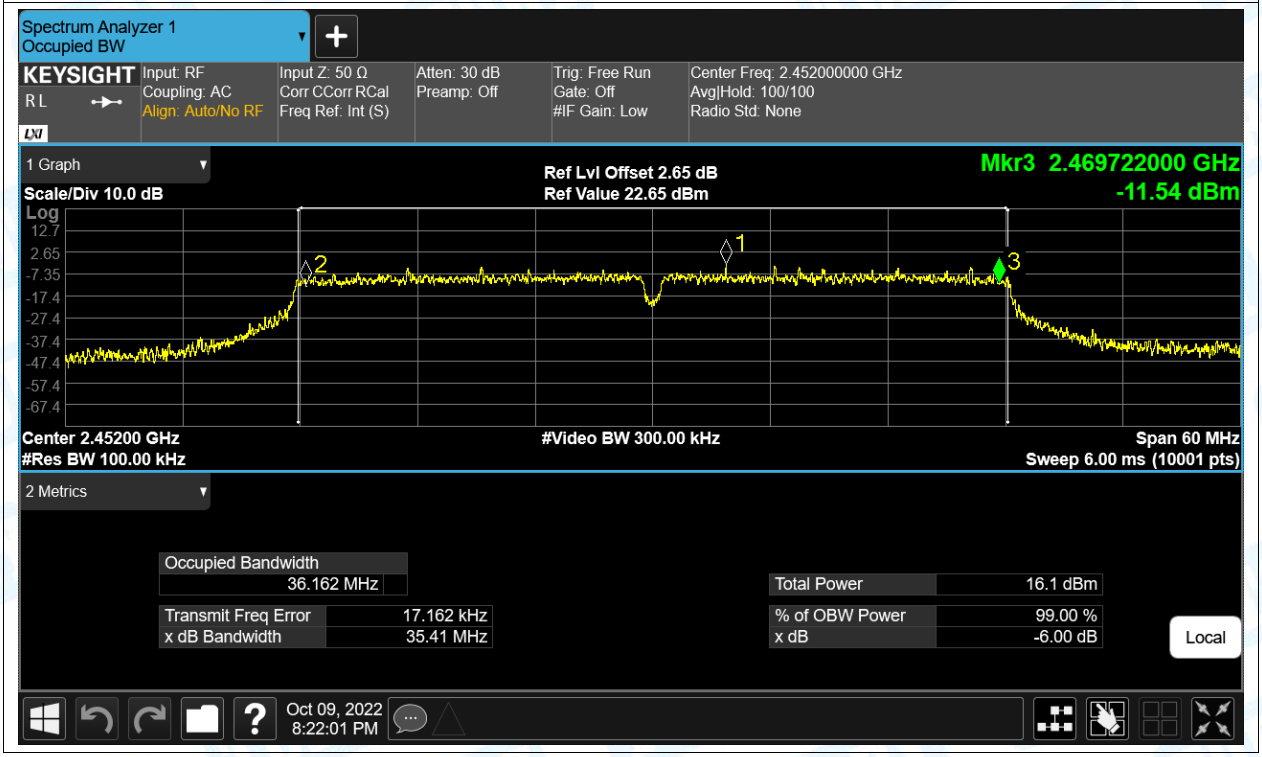
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2437MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2452MHz Ant1

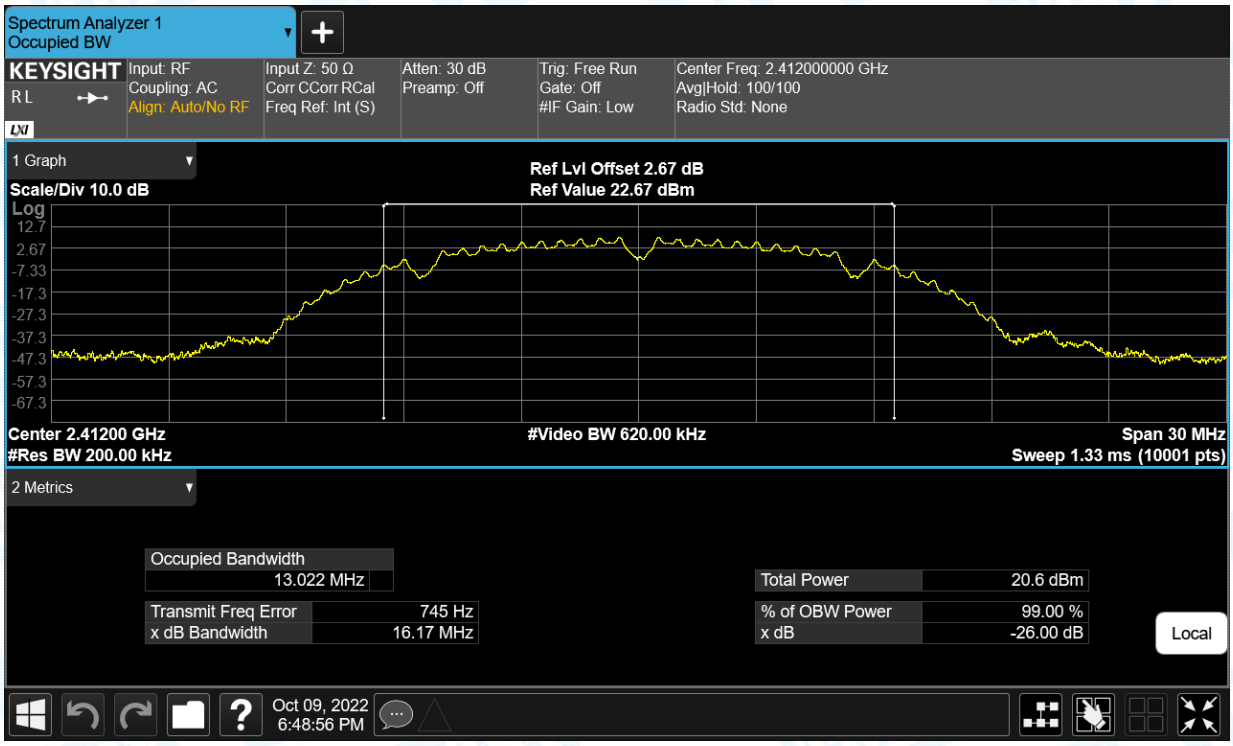


4. Occupied Channel Bandwidth

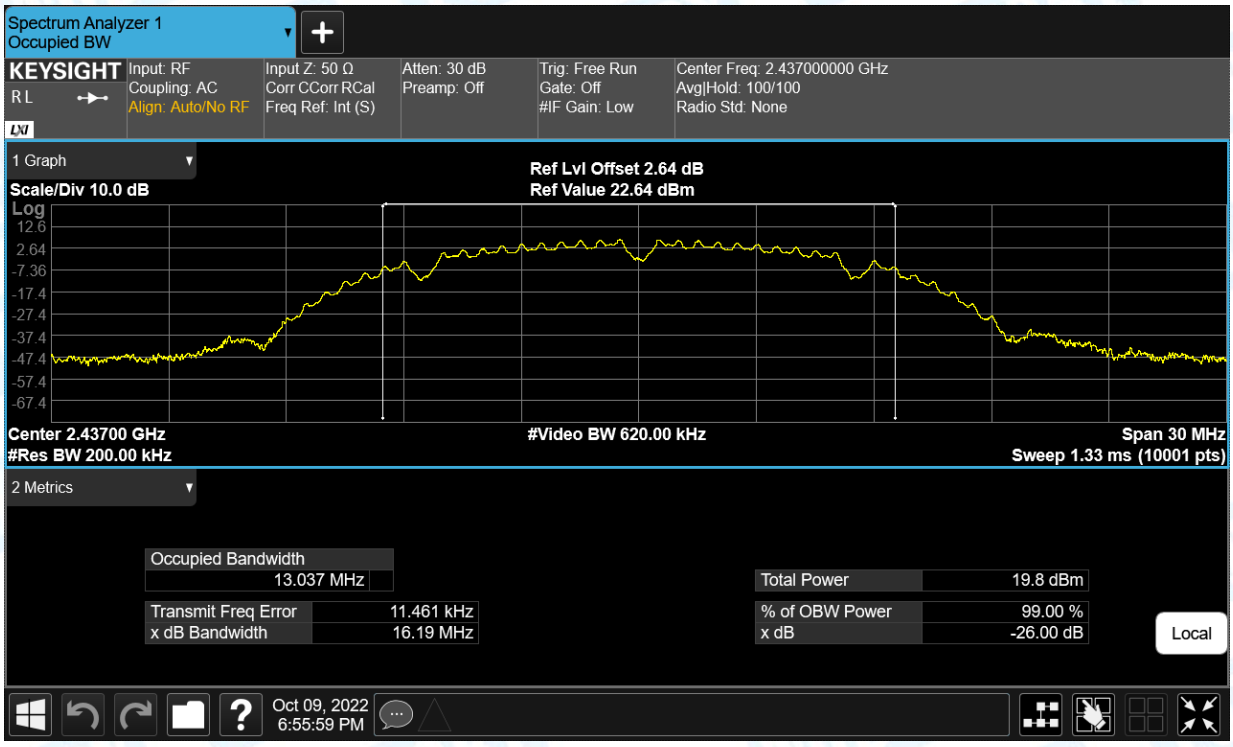
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.022
NVNT	b	2437	Ant1	13.037
NVNT	b	2462	Ant1	13.009
NVNT	g	2412	Ant1	16.737
NVNT	g	2437	Ant1	16.736
NVNT	g	2462	Ant1	16.723
NVNT	n(HT20)	2412	Ant1	17.875
NVNT	n(HT20)	2437	Ant1	17.863
NVNT	n(HT20)	2462	Ant1	17.877
NVNT	n(HT40)	2422	Ant1	36.347
NVNT	n(HT40)	2437	Ant1	36.292
NVNT	n(HT40)	2452	Ant1	36.329

Test Graphs

OBW NVNT b 2412MHz Ant1

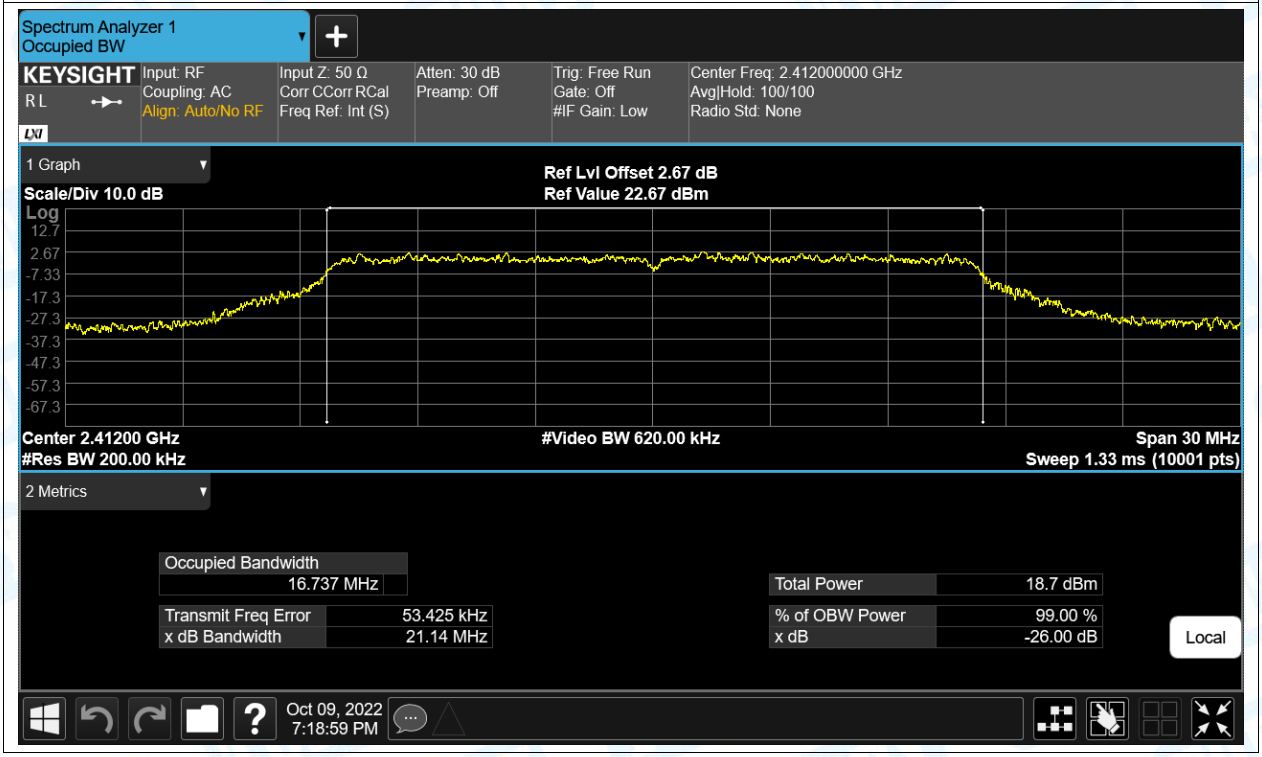


OBW NVNT b 2437MHz Ant1

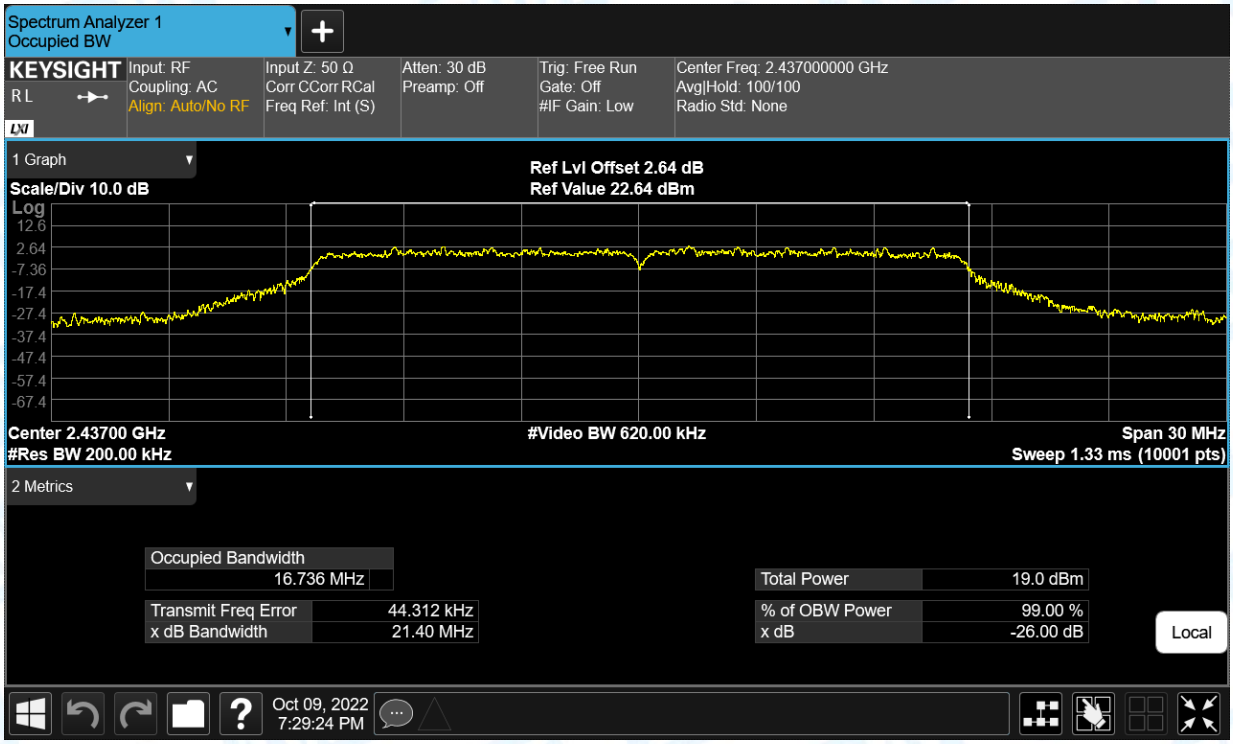


OBW NVNT b 2462MHz Ant1

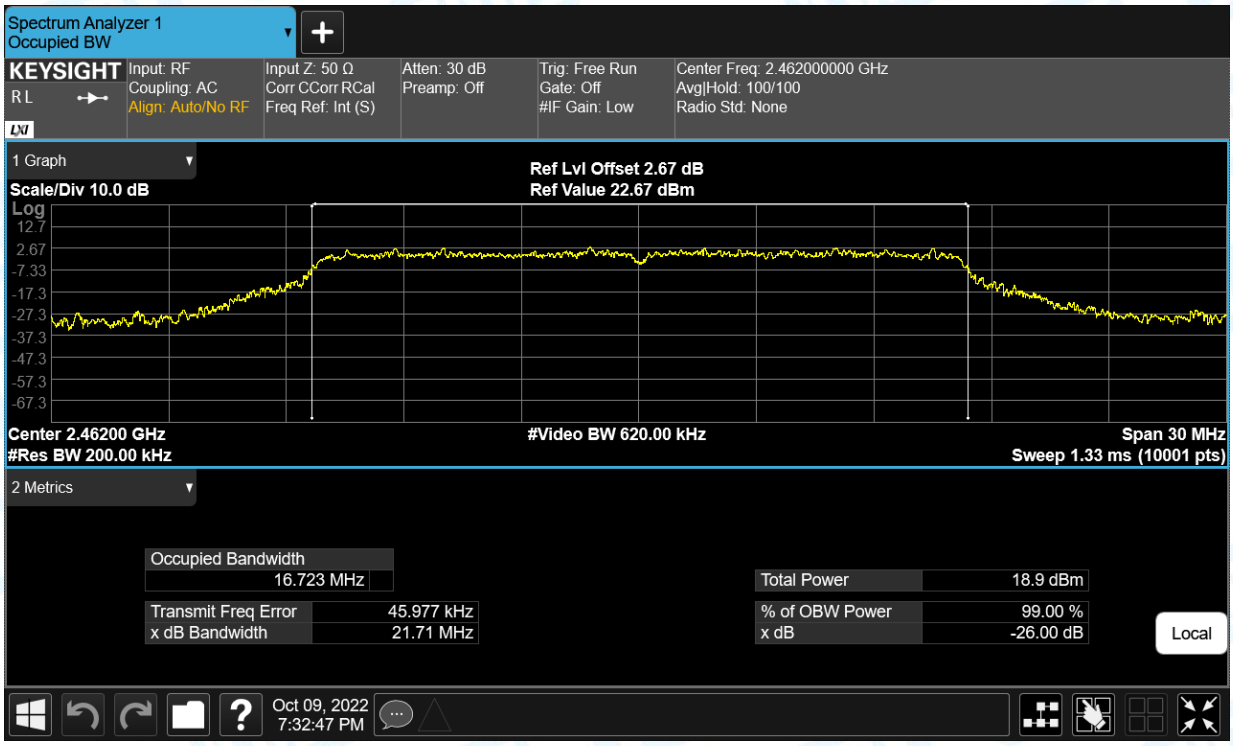
OBW NVNT g 2412MHz Ant1



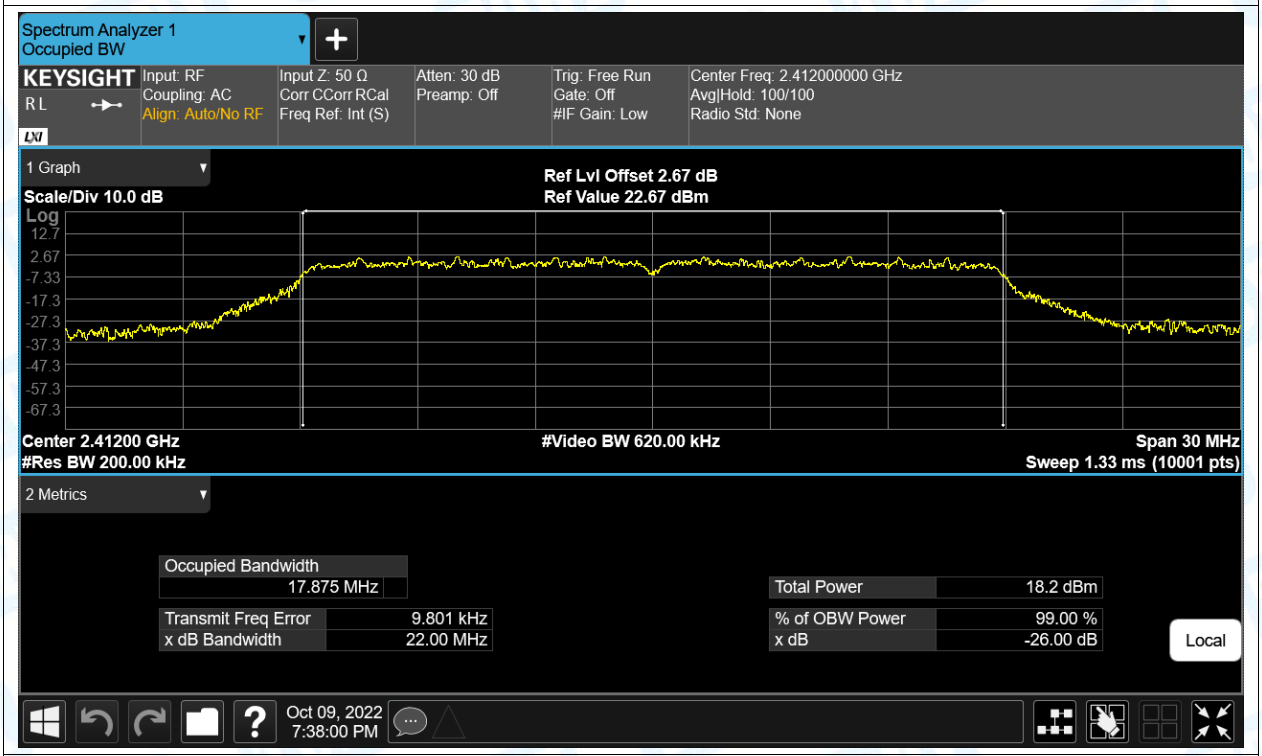
OBW NVNT g 2437MHz Ant1



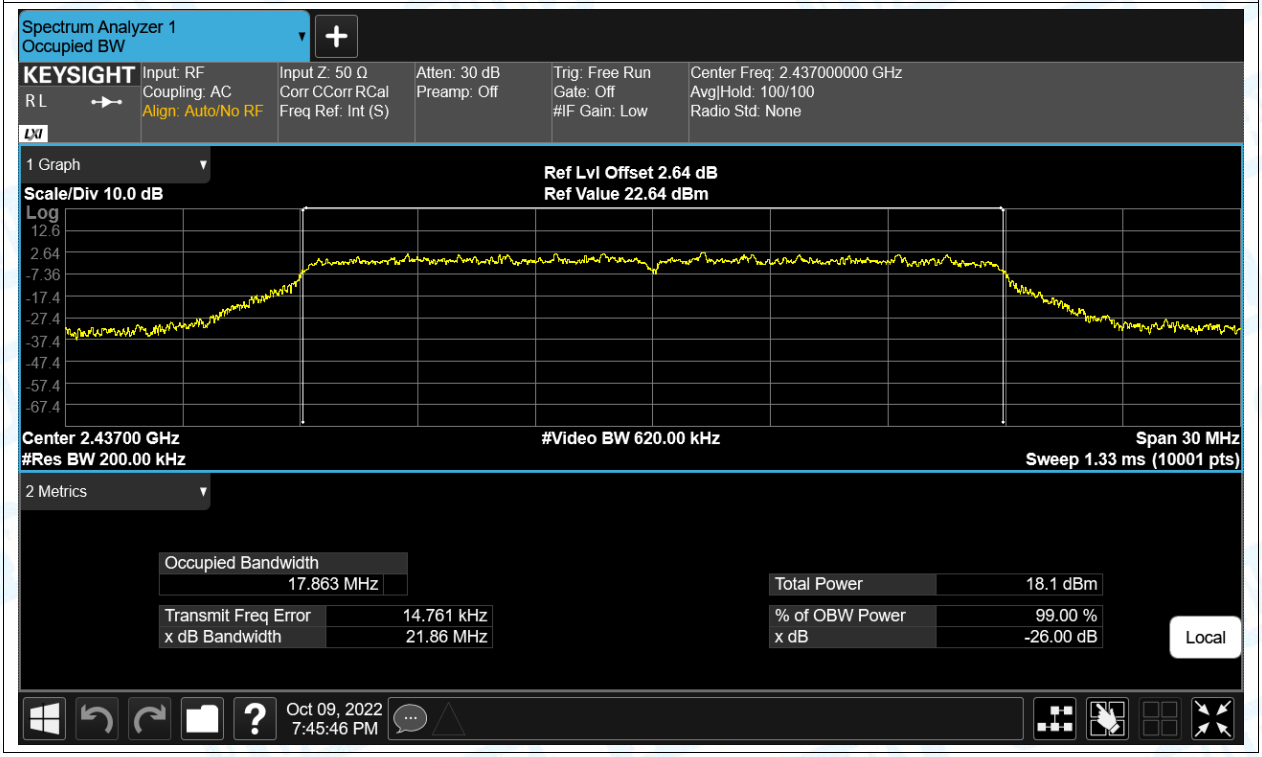
OBW NVNT g 2462MHz Ant1



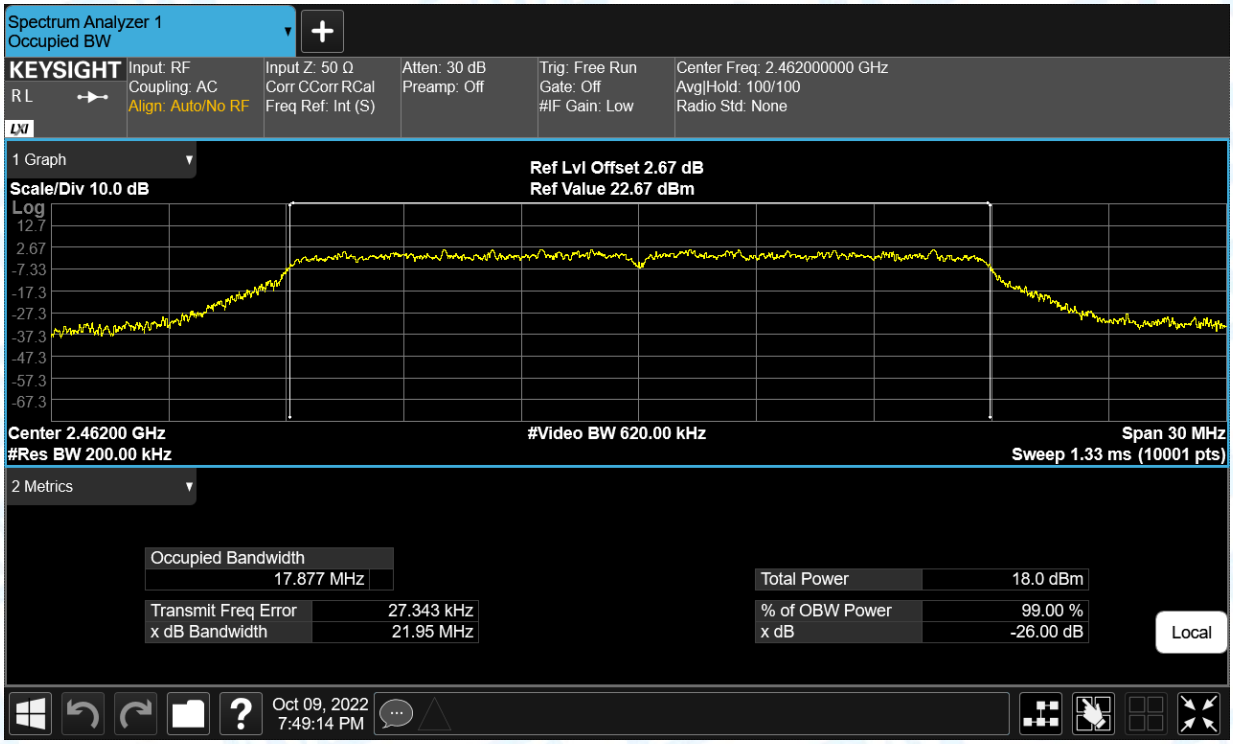
OBW NVNT n(HT20) 2412MHz Ant1



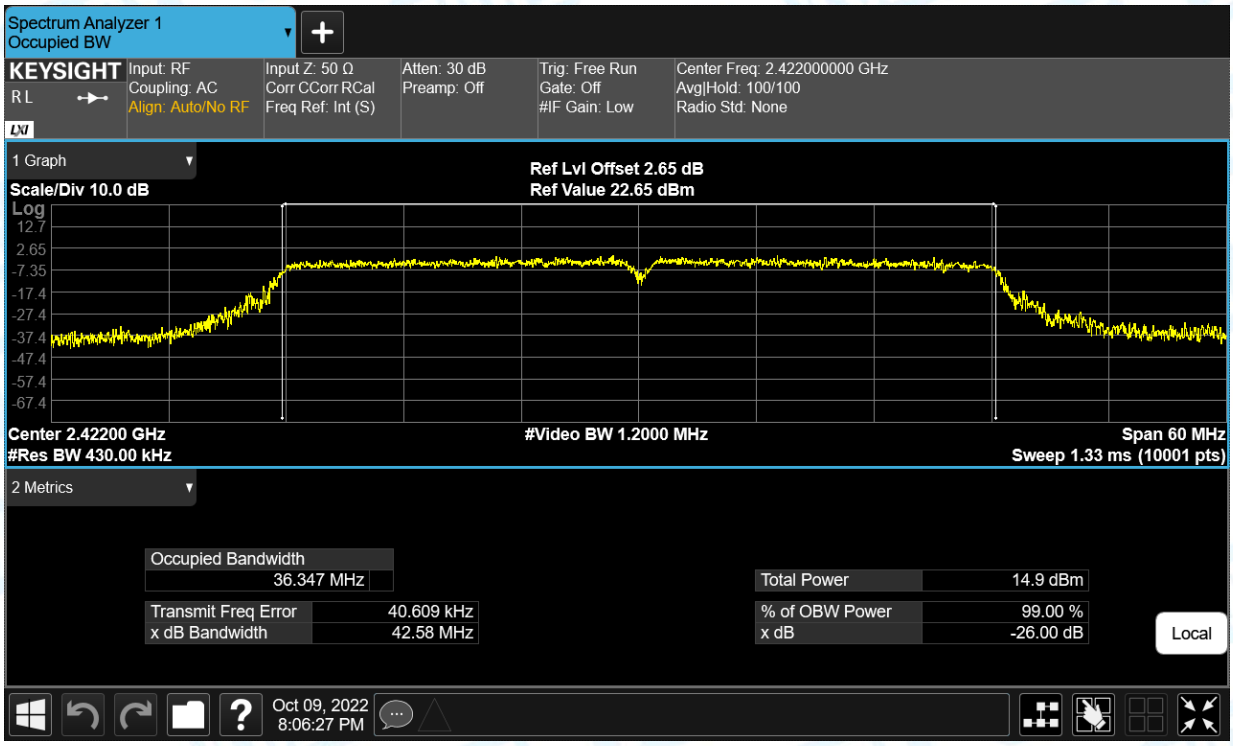
OBW NVNT n(HT20) 2437MHz Ant1



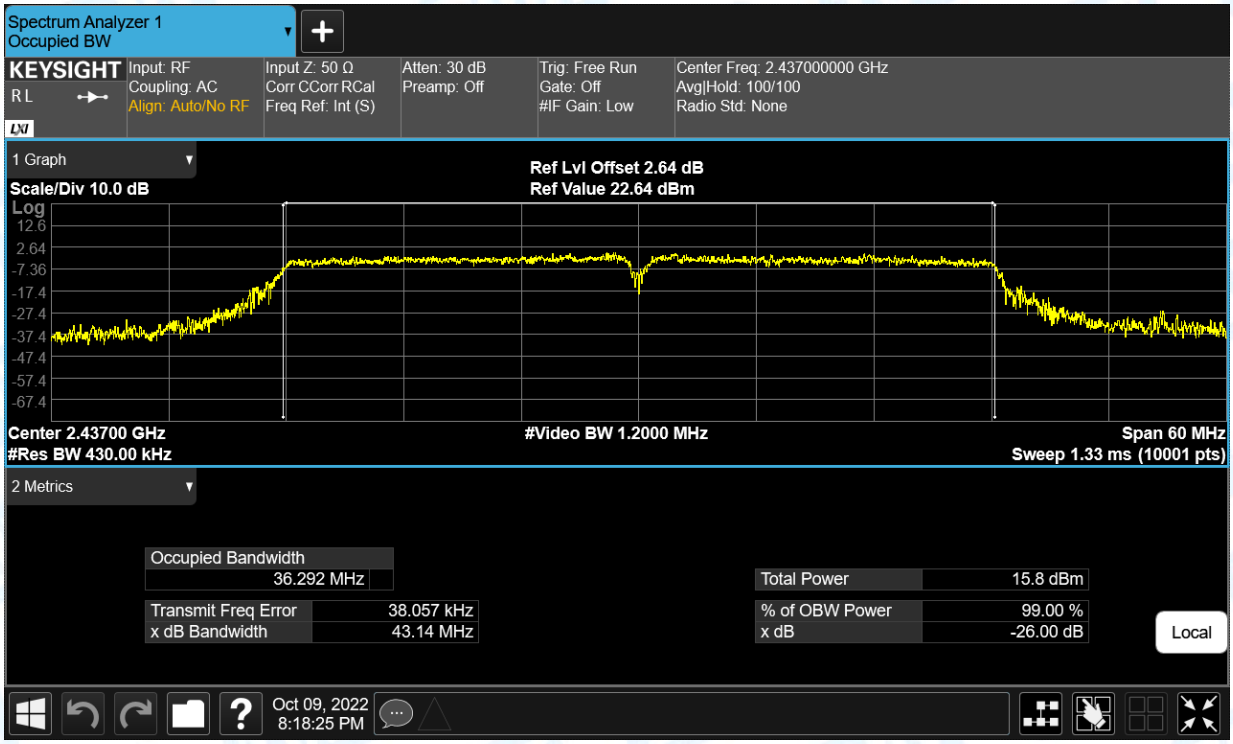
OBW NVNT n(HT20) 2462MHz Ant1



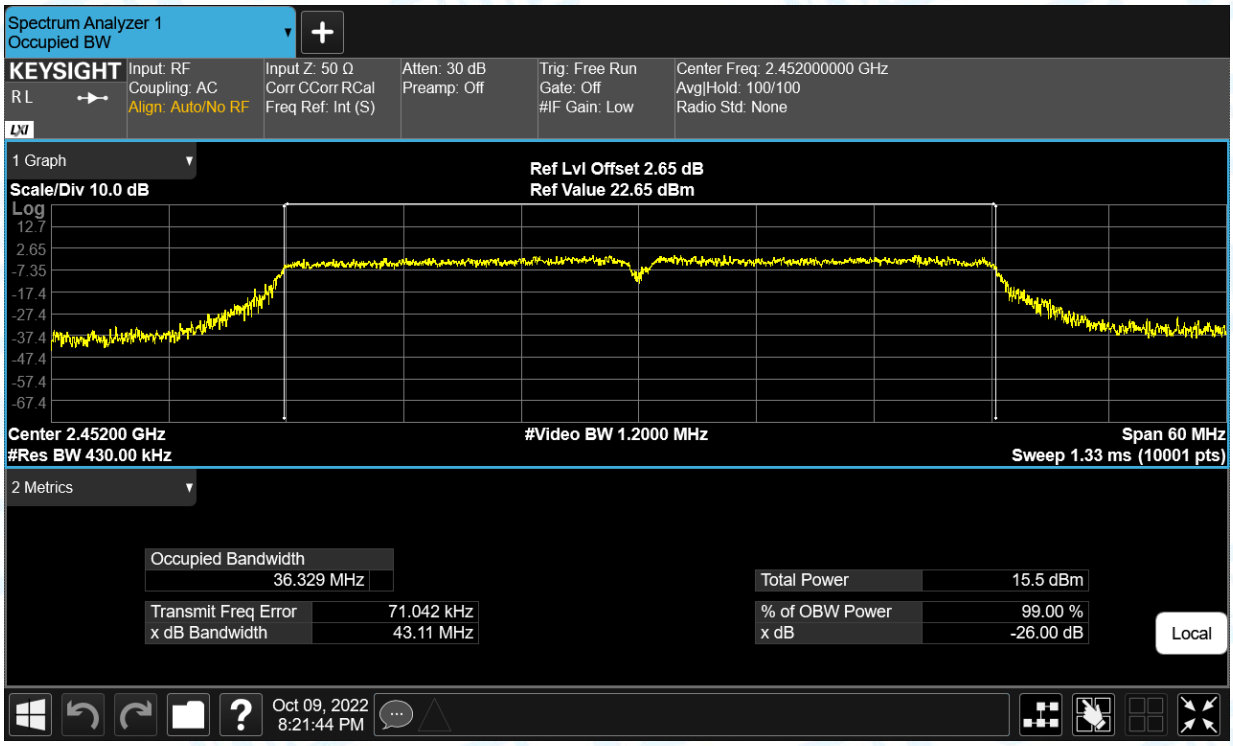
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1

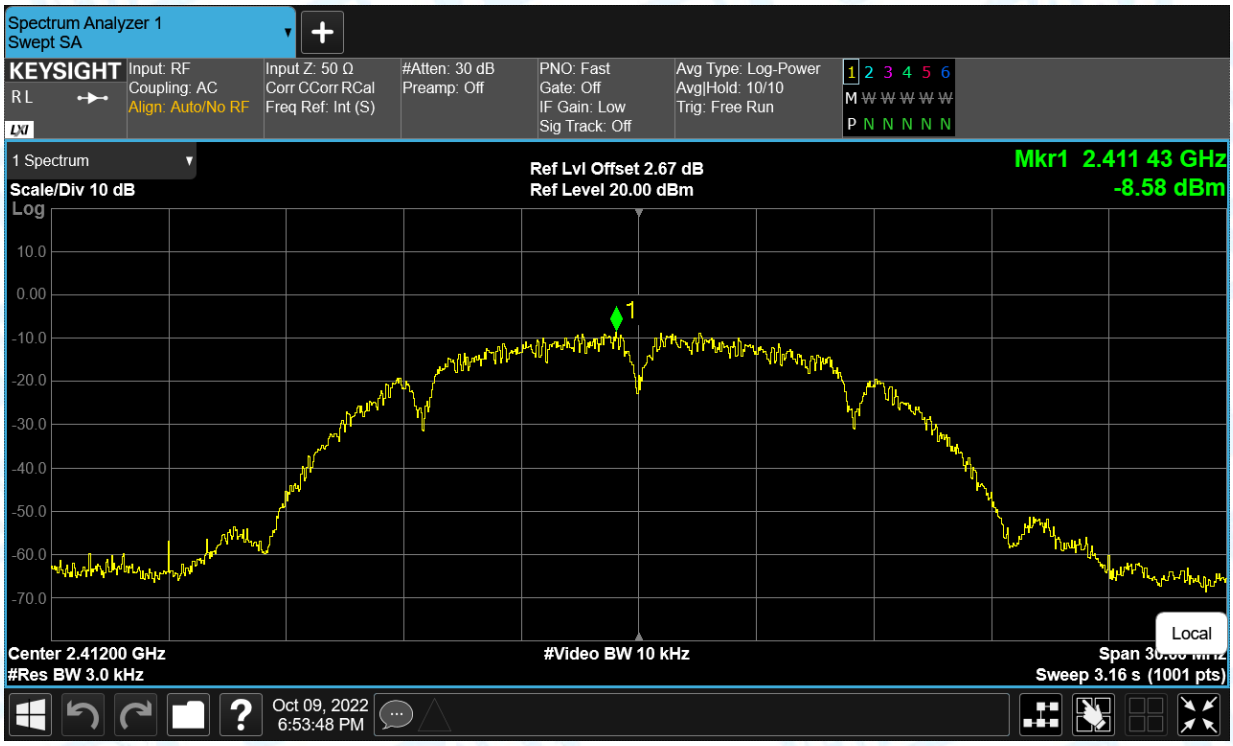


5. Maximum Power Spectral Density Level

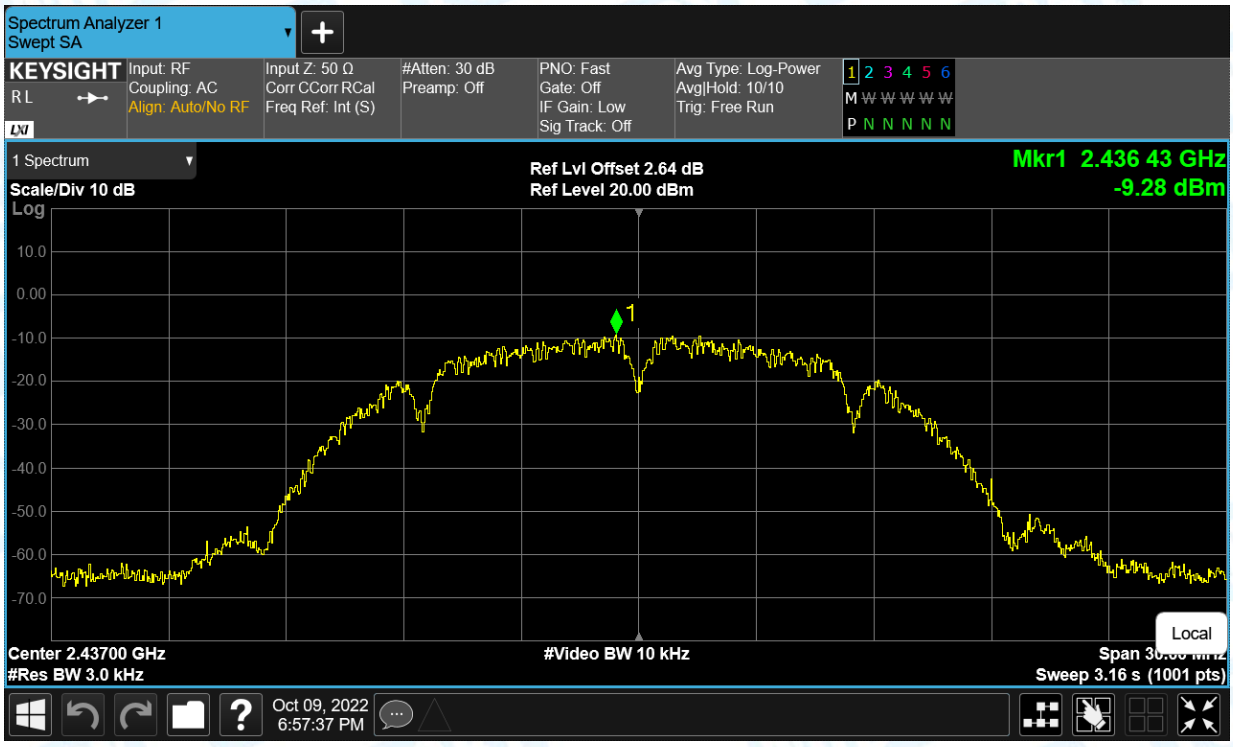
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-8.575	8	Pass
NVNT	b	2437	Ant1	-9.283	8	Pass
NVNT	b	2462	Ant1	-9.134	8	Pass
NVNT	g	2412	Ant1	-12.796	8	Pass
NVNT	g	2437	Ant1	-12.526	8	Pass
NVNT	g	2462	Ant1	-12.677	8	Pass
NVNT	n(HT20)	2412	Ant1	-13.07	8	Pass
NVNT	n(HT20)	2437	Ant1	-13.032	8	Pass
NVNT	n(HT20)	2462	Ant1	-13.133	8	Pass
NVNT	n(HT40)	2422	Ant1	-17.105	8	Pass
NVNT	n(HT40)	2437	Ant1	-16.574	8	Pass
NVNT	n(HT40)	2452	Ant1	-16.822	8	Pass

Test Graphs

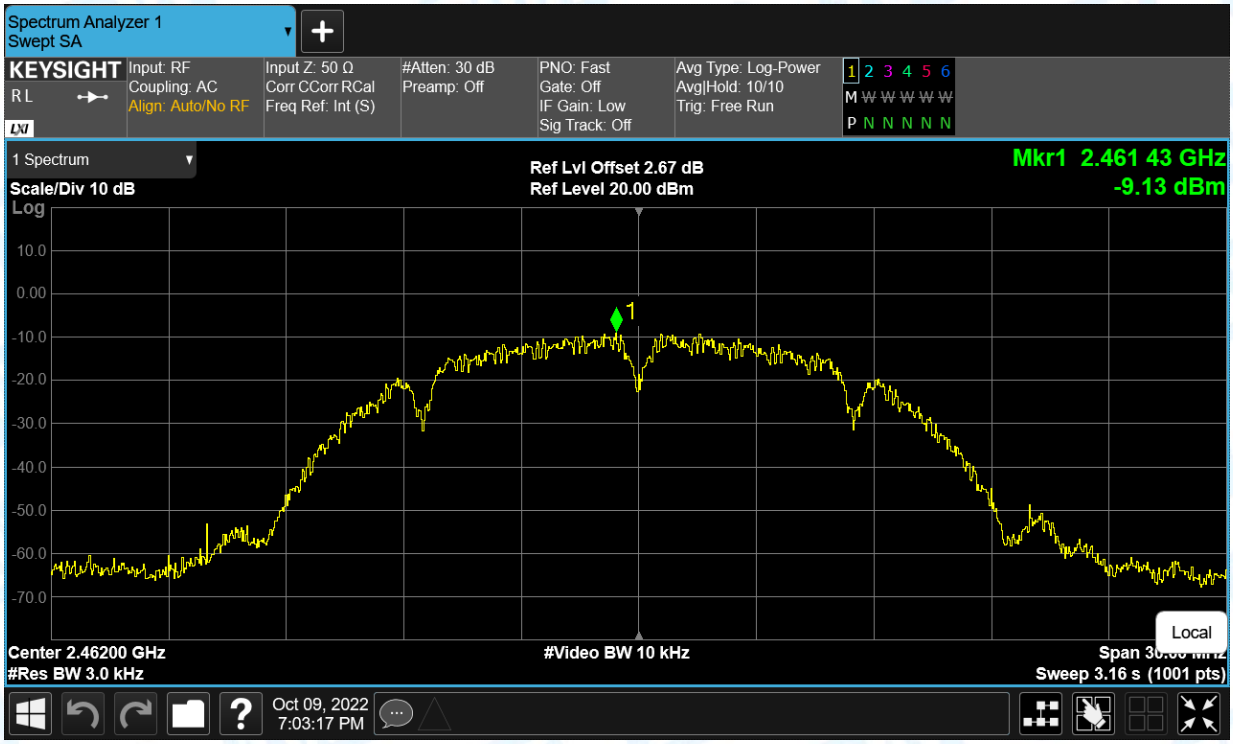
PSD NVNT b 2412MHz Ant1



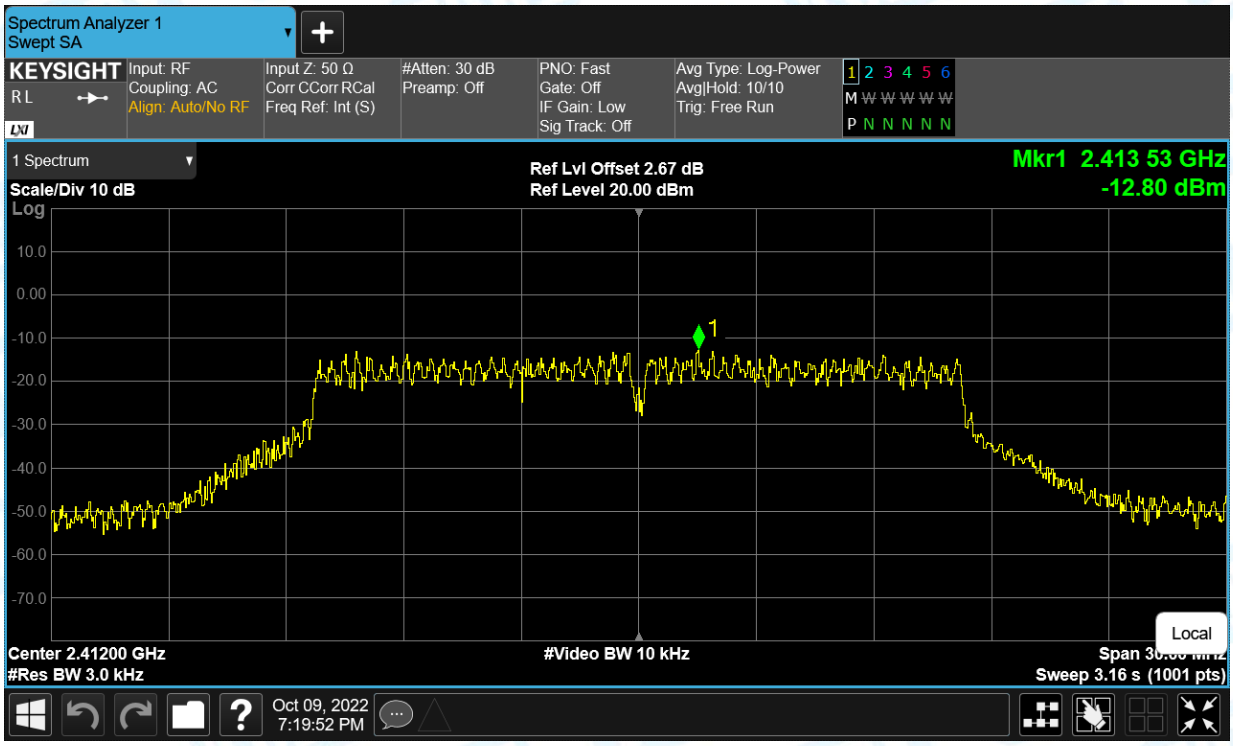
PSD NVNT b 2437MHz Ant1



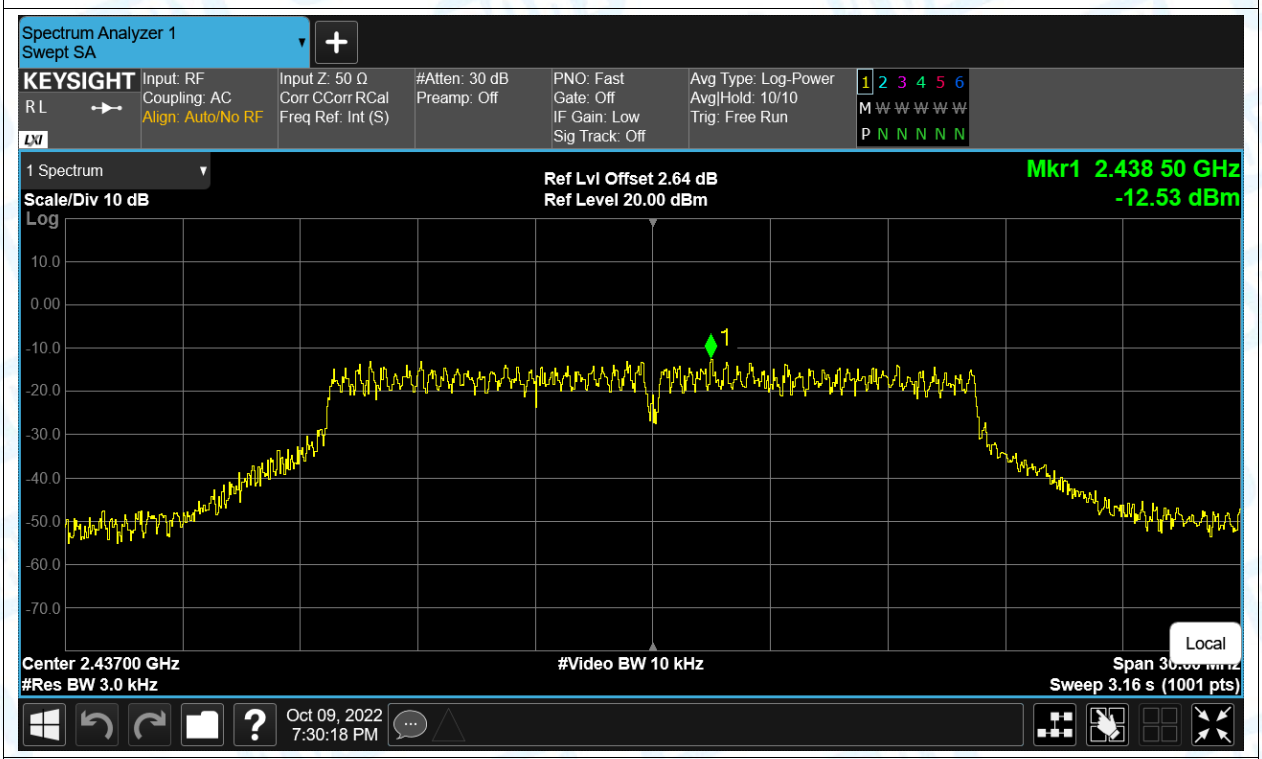
PSD NVNT b 2462MHz Ant1



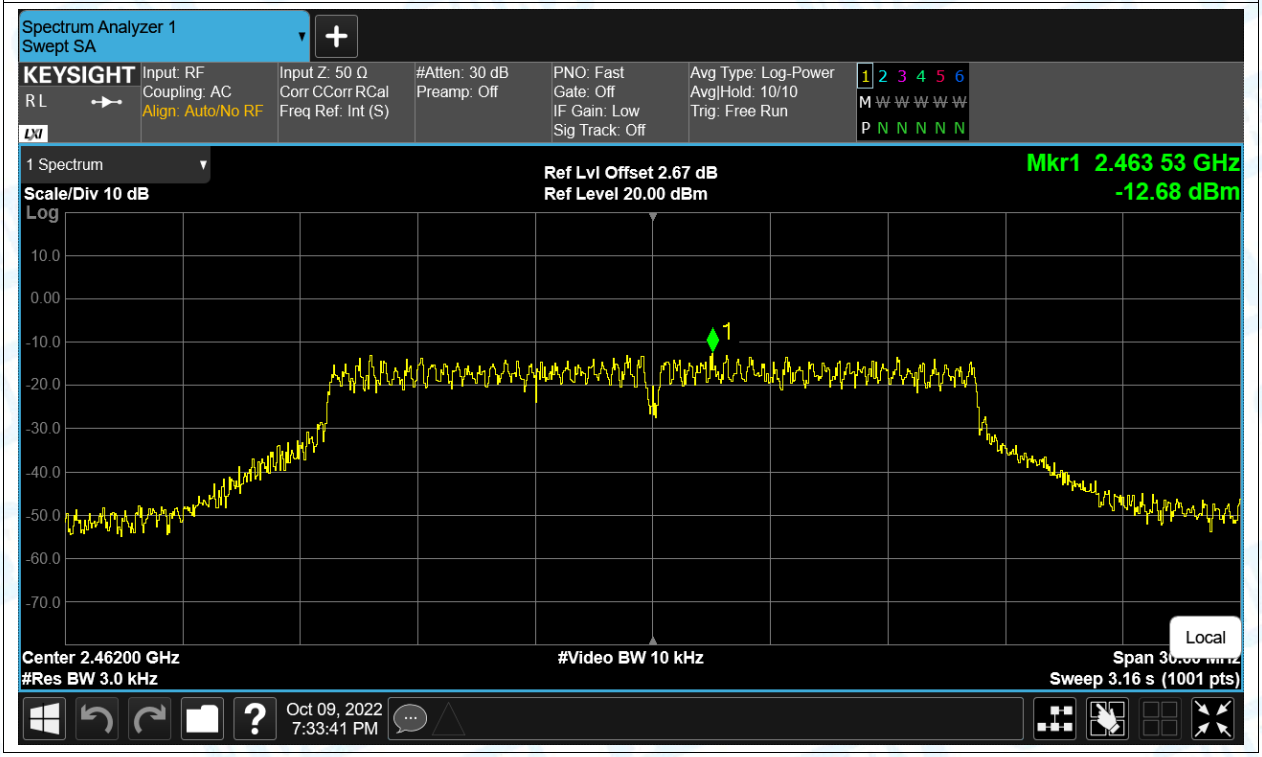
PSD NVNT g 2412MHz Ant1



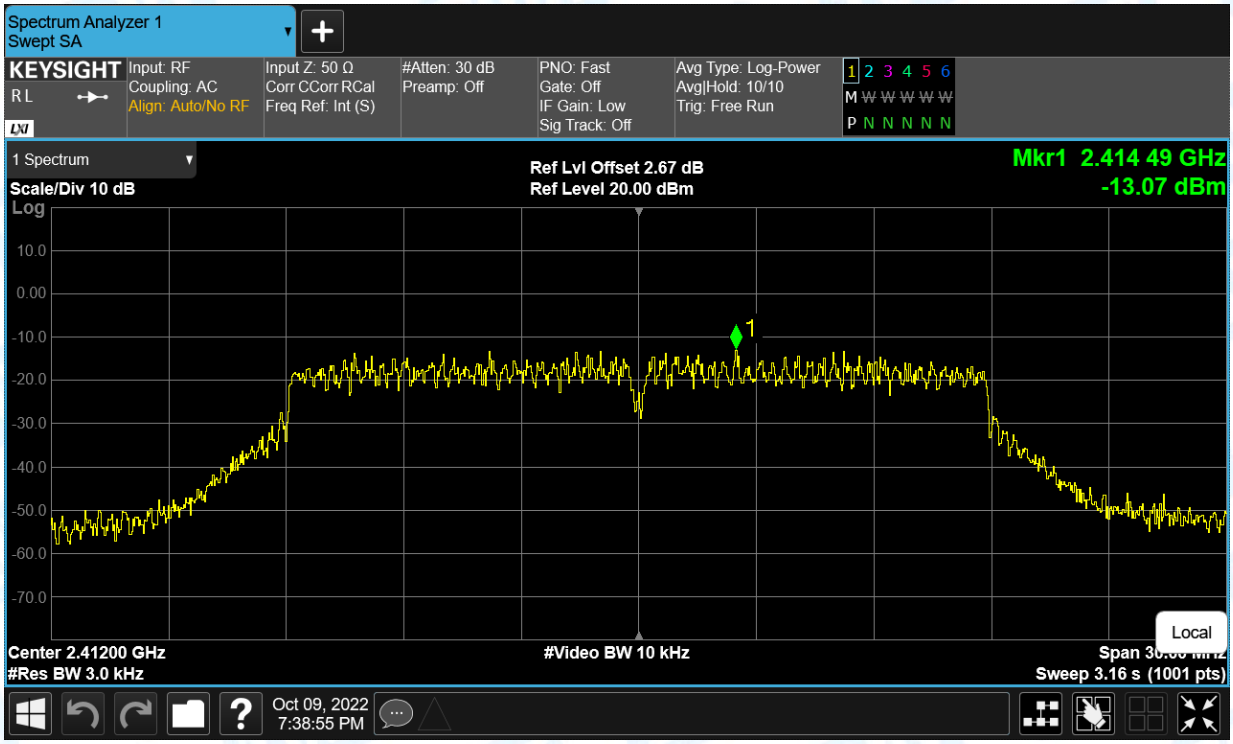
PSD NVNT g 2437MHz Ant1



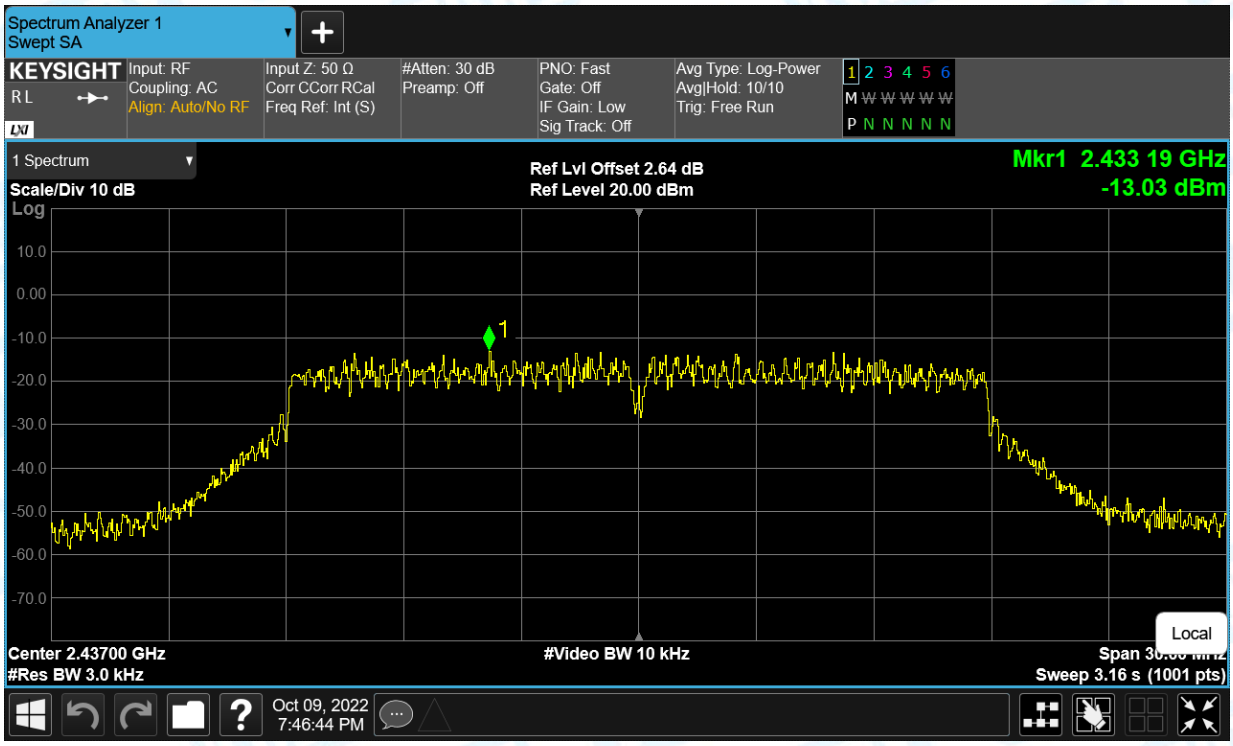
PSD NVNT g 2462MHz Ant1



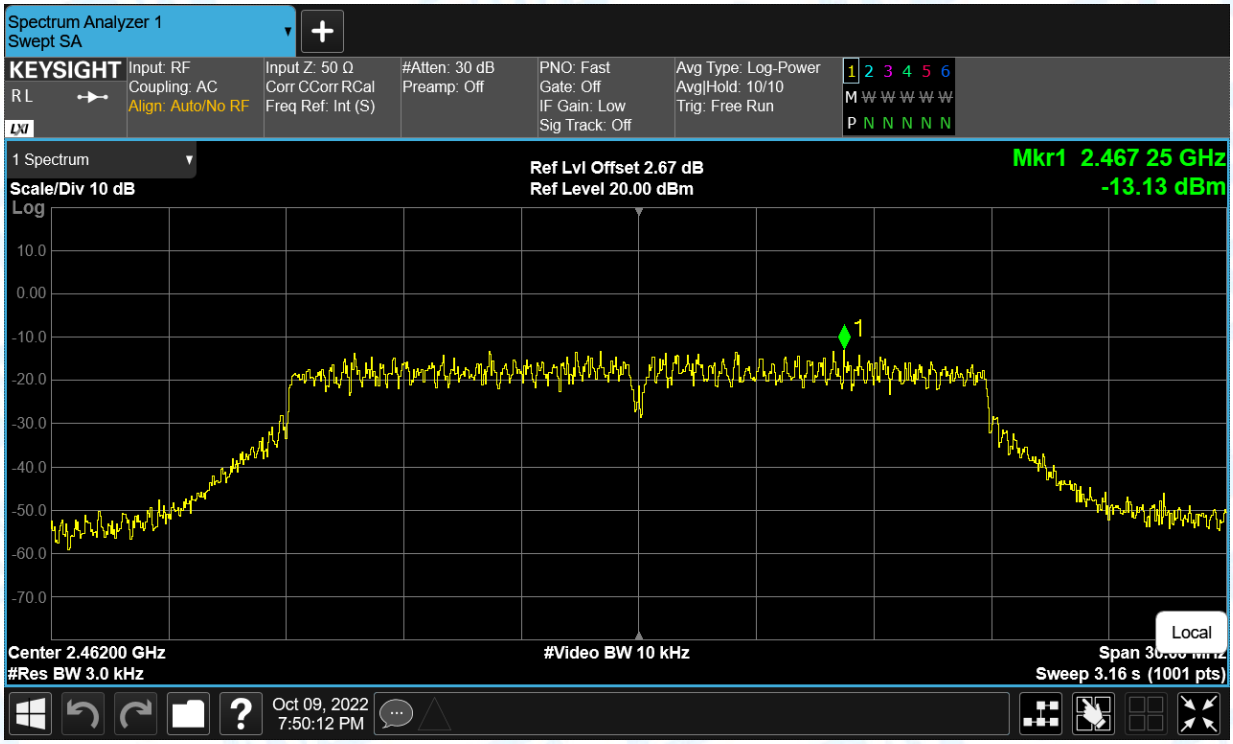
PSD NVNT n(HT20) 2412MHz Ant1



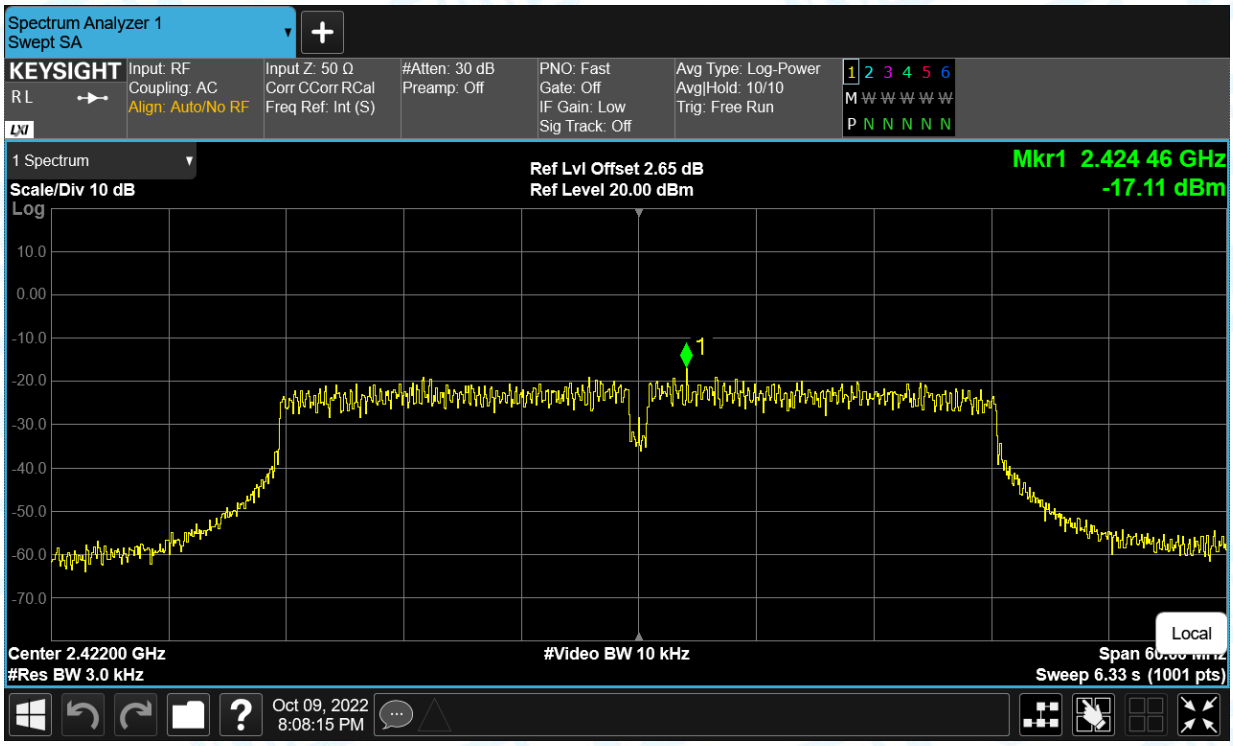
PSD NVNT n(HT20) 2437MHz Ant1



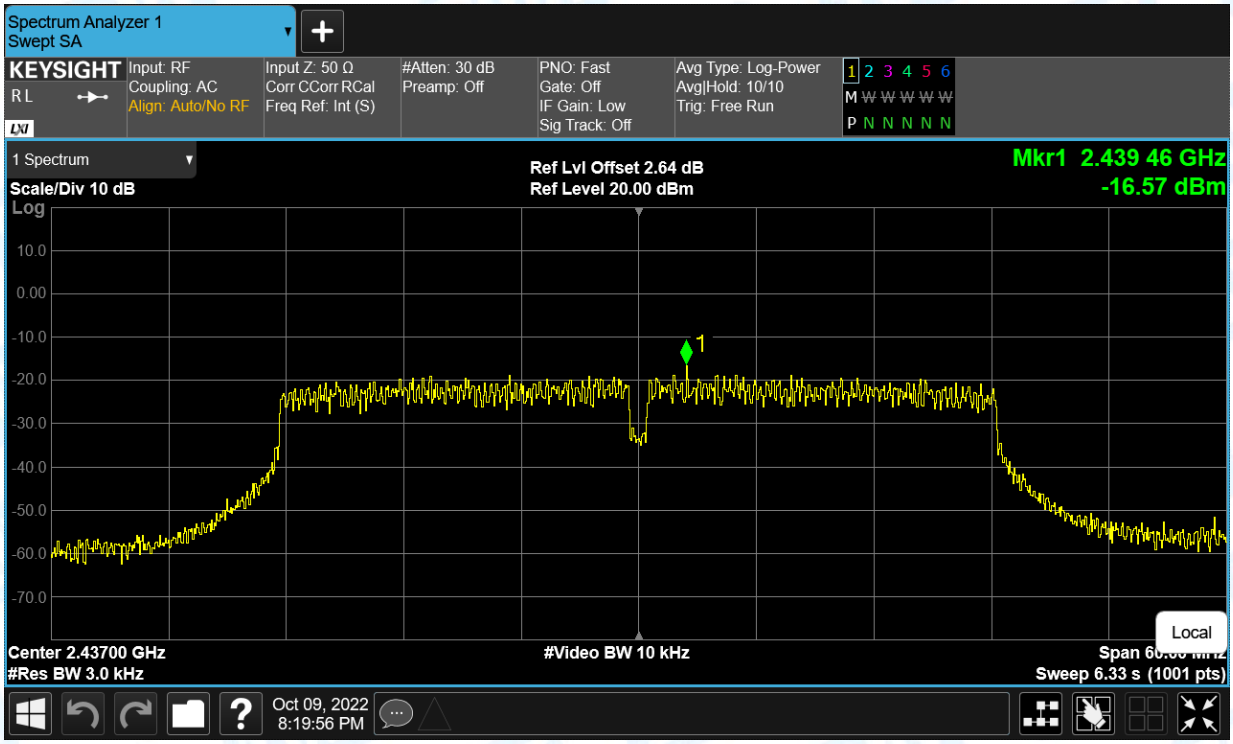
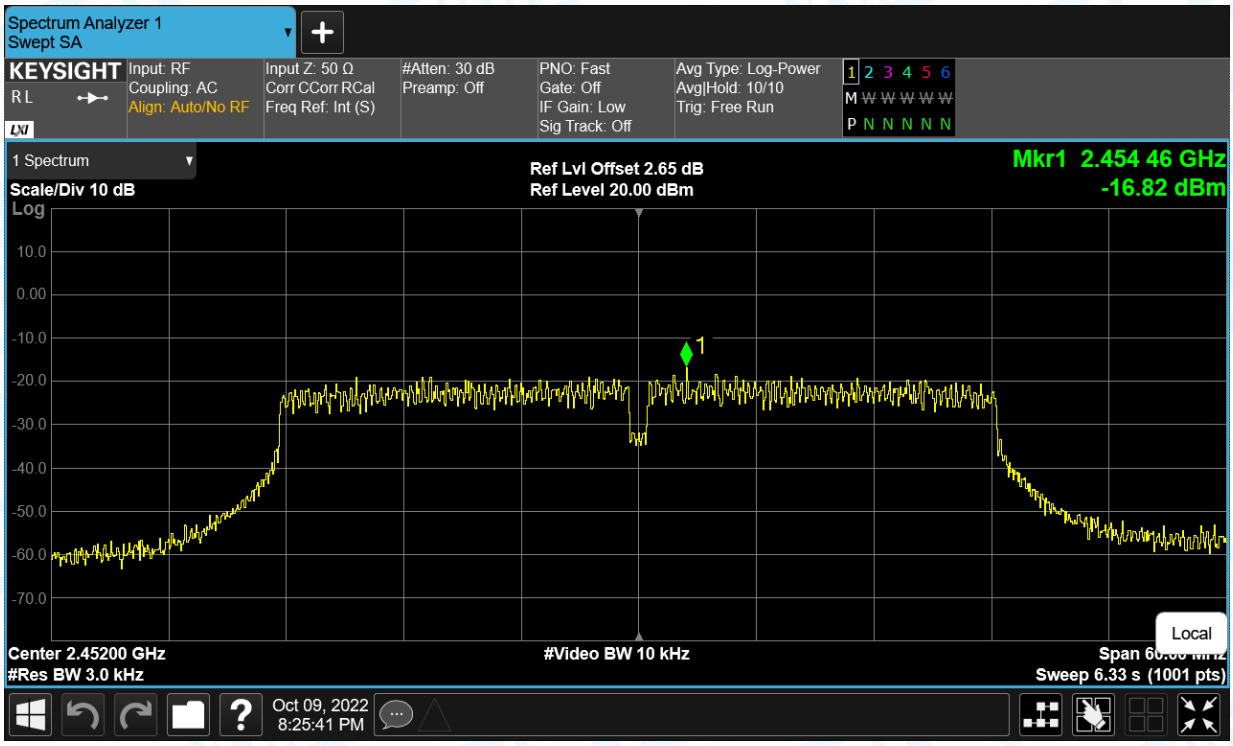
PSD NVNT n(HT20) 2462MHz Ant1



PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1