RF Test Data for 2.4G WiFi (Conducted Measurements)

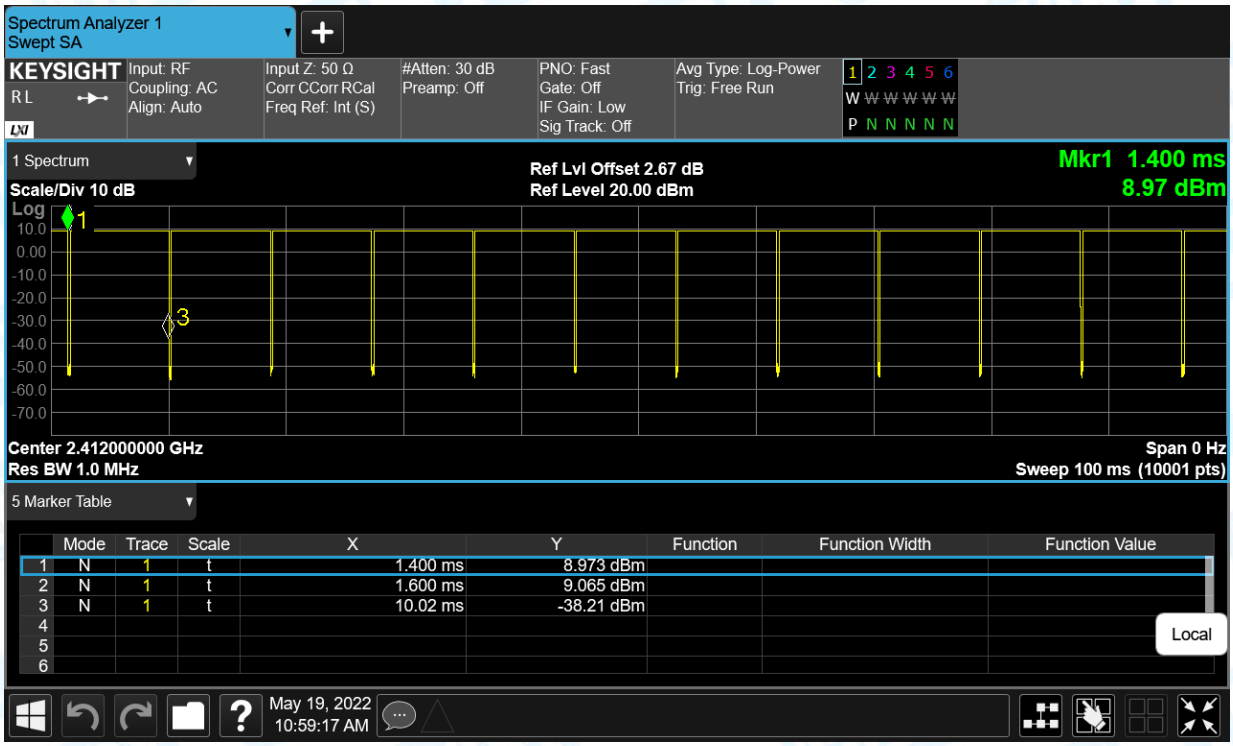
General Description of EUT	
Product Name:	Projector
Test Model:	M8-F
Sample ID:	RW-C-202205-0019-1-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	AC 120V/60Hz
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202205-0019-21	

1. Duty Cycle

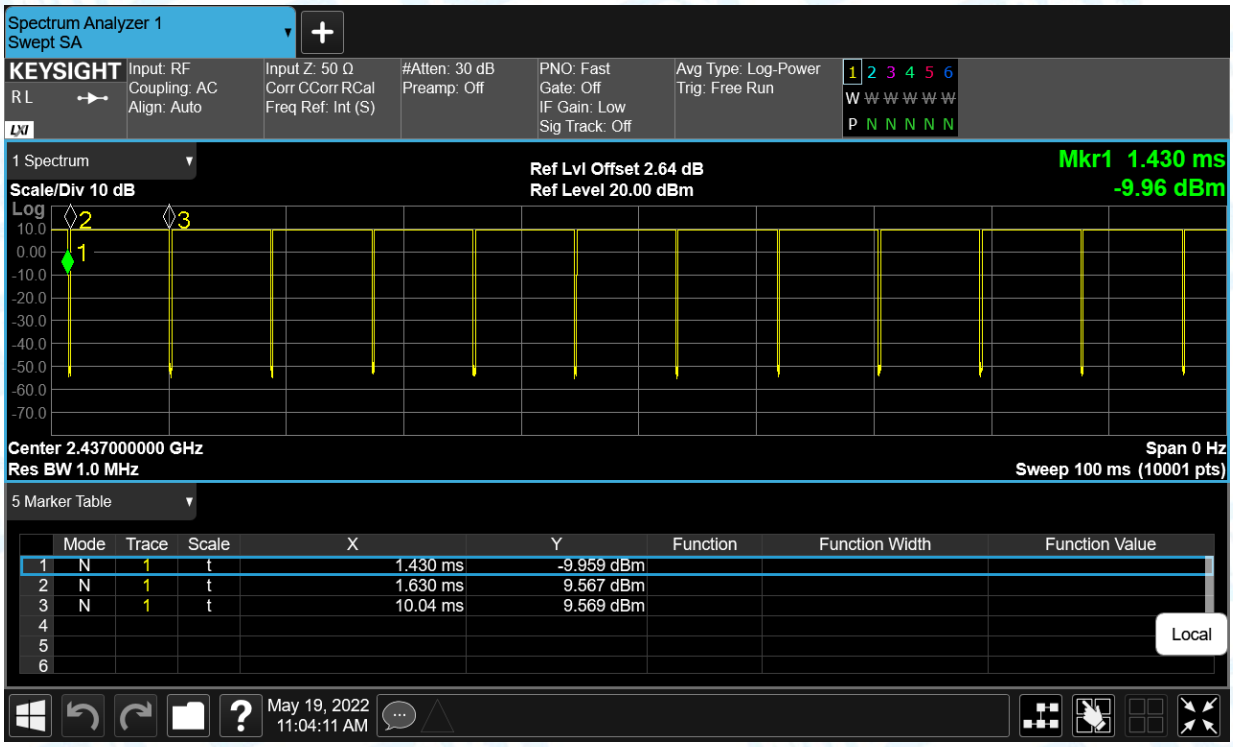
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	97.72	0.1	0.12
NVNT	b	2437	Ant1	97.72	0.1	0.12
NVNT	b	2462	Ant1	97.91	0.09	0.12
NVNT	g	2412	Ant1	87.98	0.56	0.72
NVNT	g	2437	Ant1	88.03	0.55	0.71
NVNT	g	2462	Ant1	88.03	0.55	0.72
NVNT	n(HT20)	2412	Ant1	87.14	0.6	0.77
NVNT	n(HT20)	2437	Ant1	87.26	0.59	0.77
NVNT	n(HT20)	2462	Ant1	87.22	0.59	0.77
NVNT	n(HT40)	2422	Ant1	34.23	4.66	11.11
NVNT	n(HT40)	2437	Ant1	34.26	4.65	11.11
NVNT	n(HT40)	2452	Ant1	34.26	4.65	11.11

Test Graphs

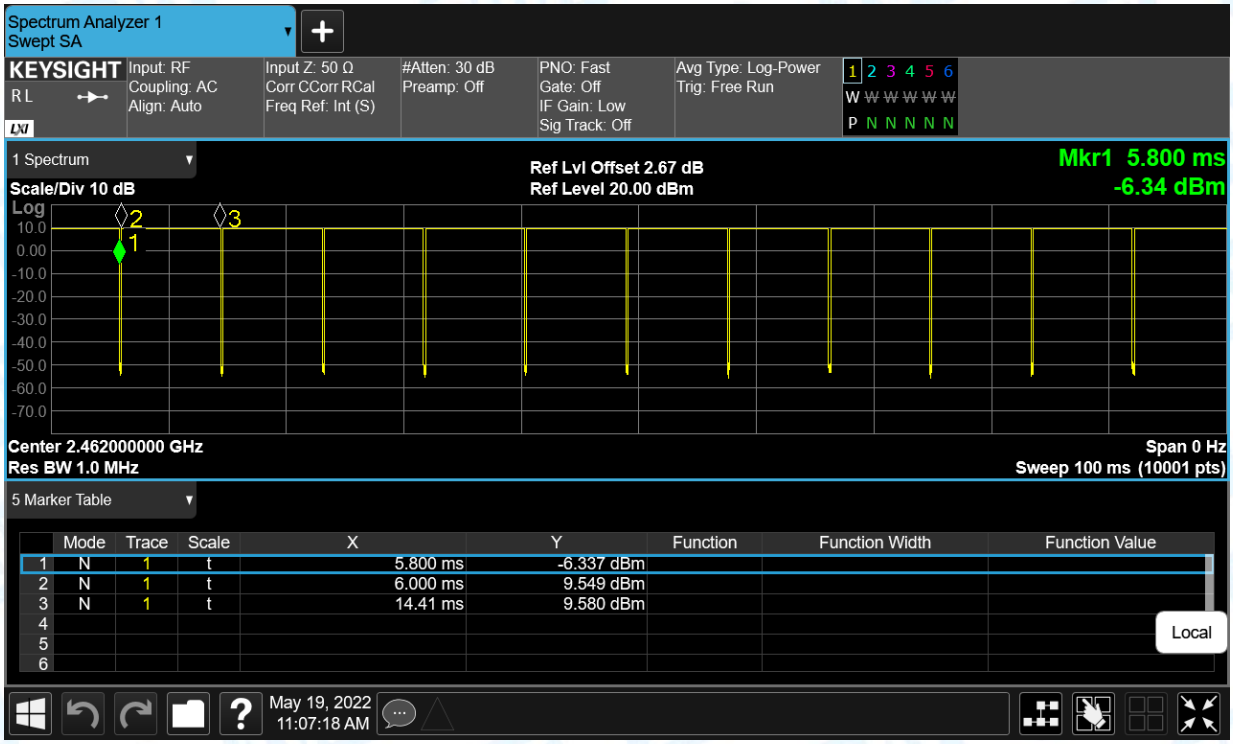
Duty Cycle NVNT b 2412MHz Ant1



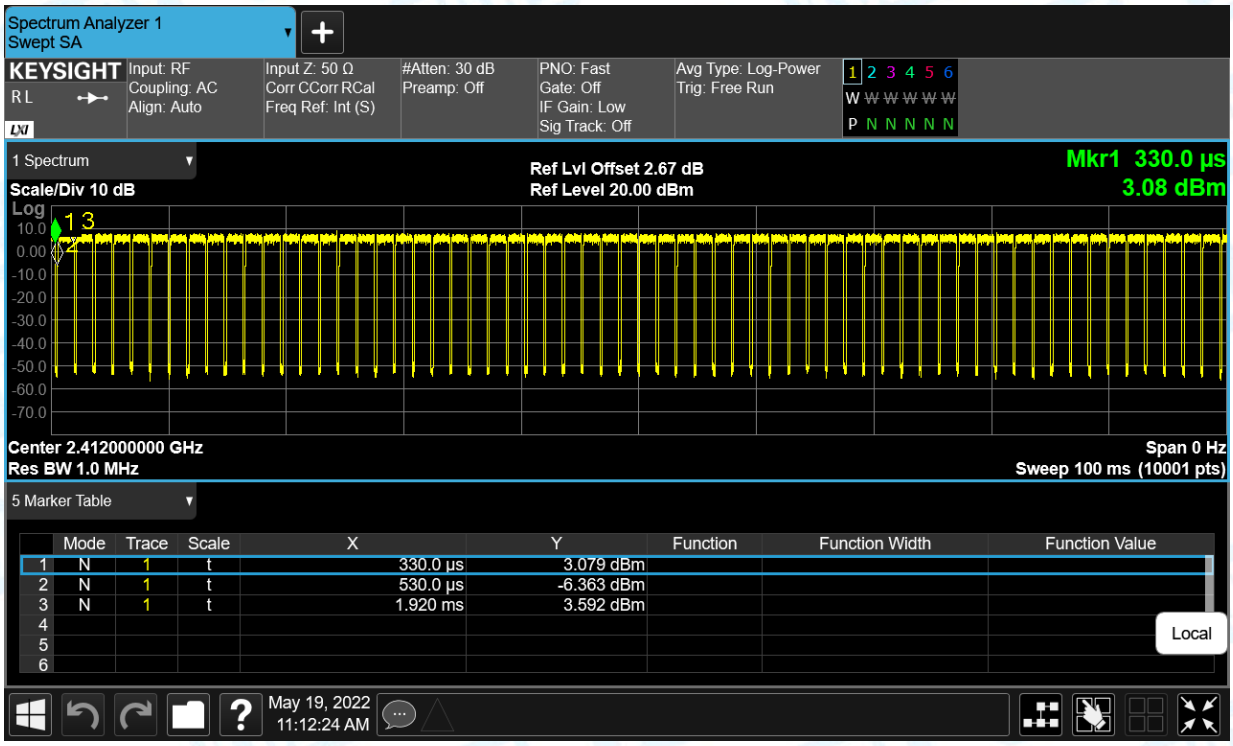
Duty Cycle NVNT b 2437MHz Ant1



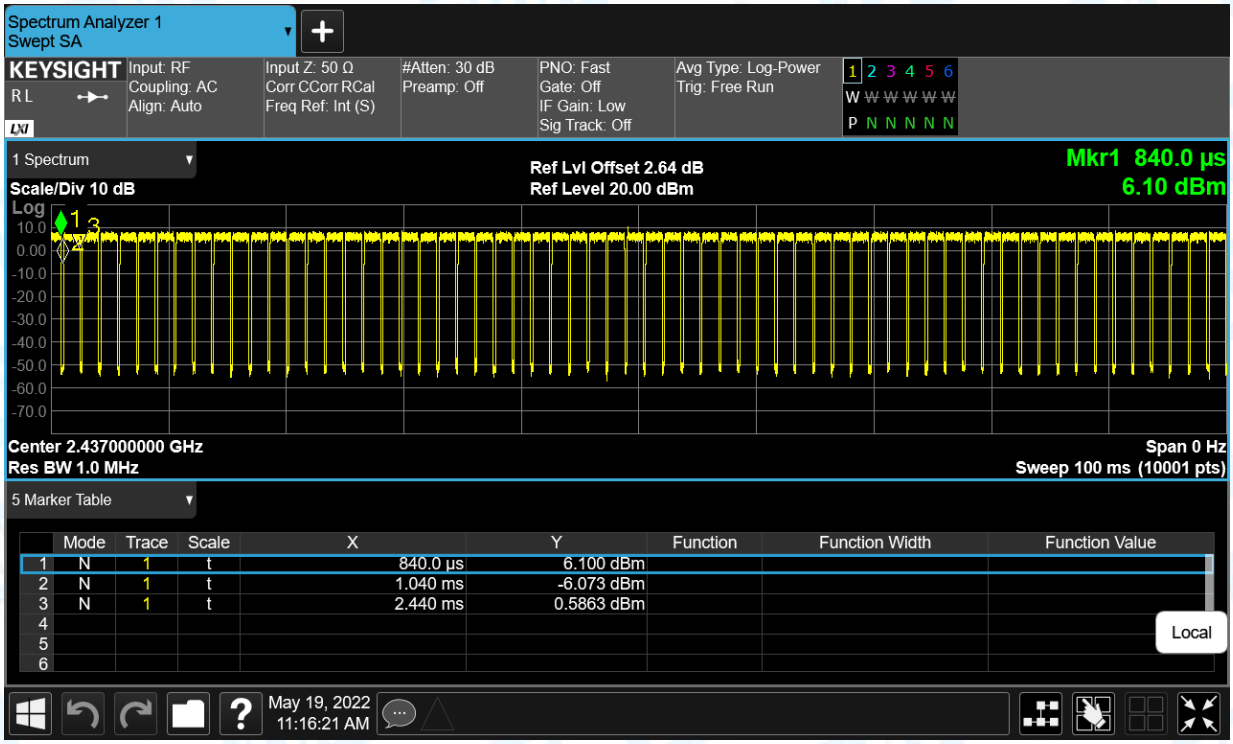
Duty Cycle NVNT b 2462MHz Ant1



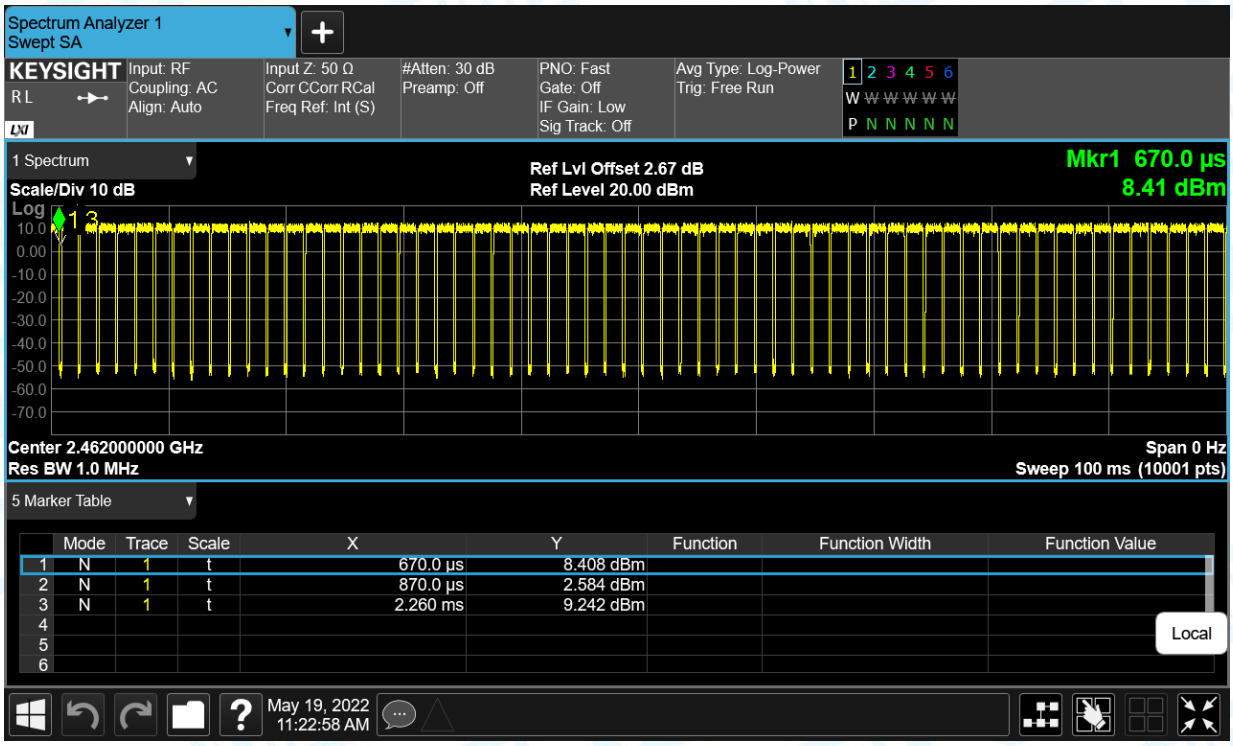
Duty Cycle NVNT g 2412MHz Ant1



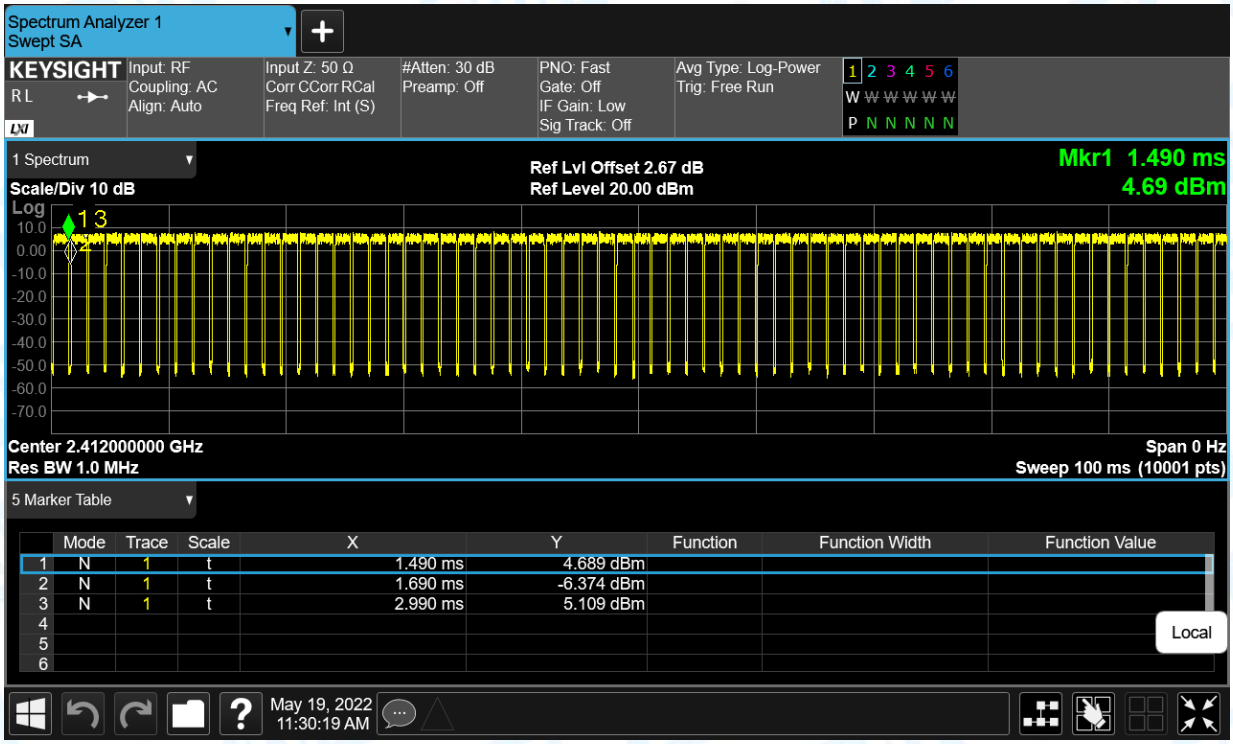
Duty Cycle NVNT g 2437MHz Ant1



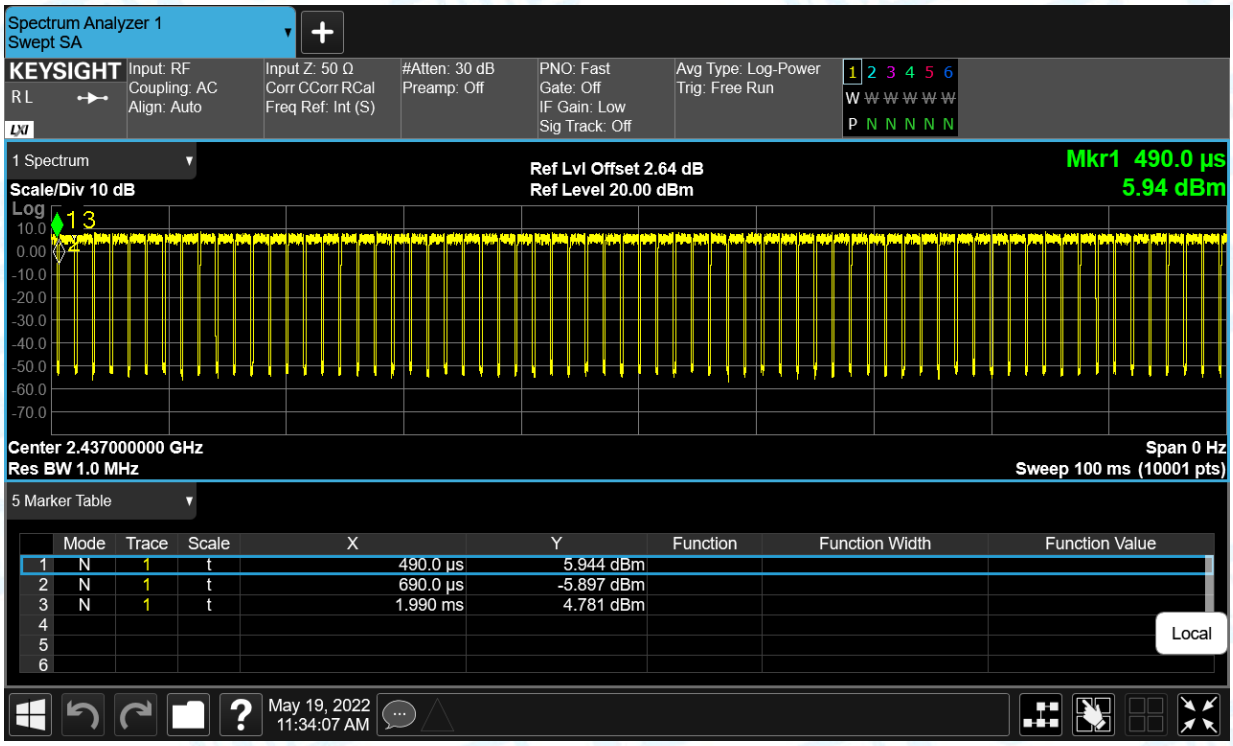
Duty Cycle NVNT g 2462MHz Ant1



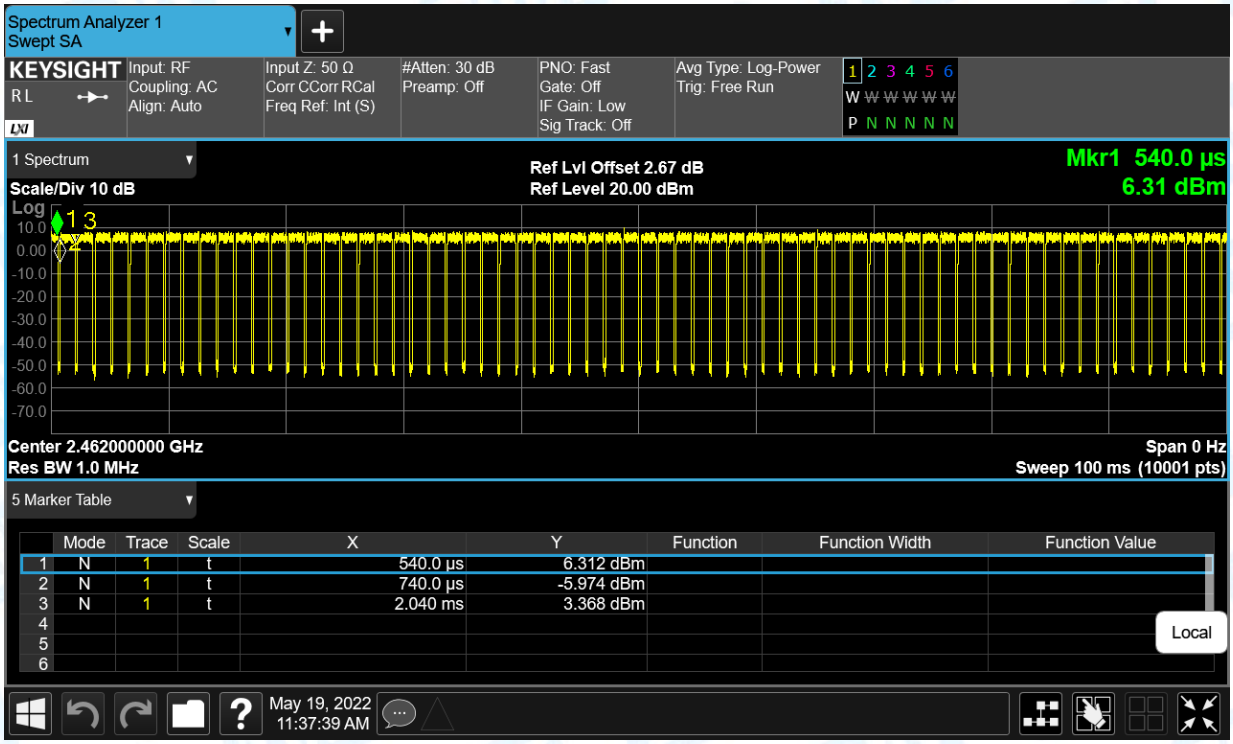
Duty Cycle NVNT n(HT20) 2412MHz Ant1



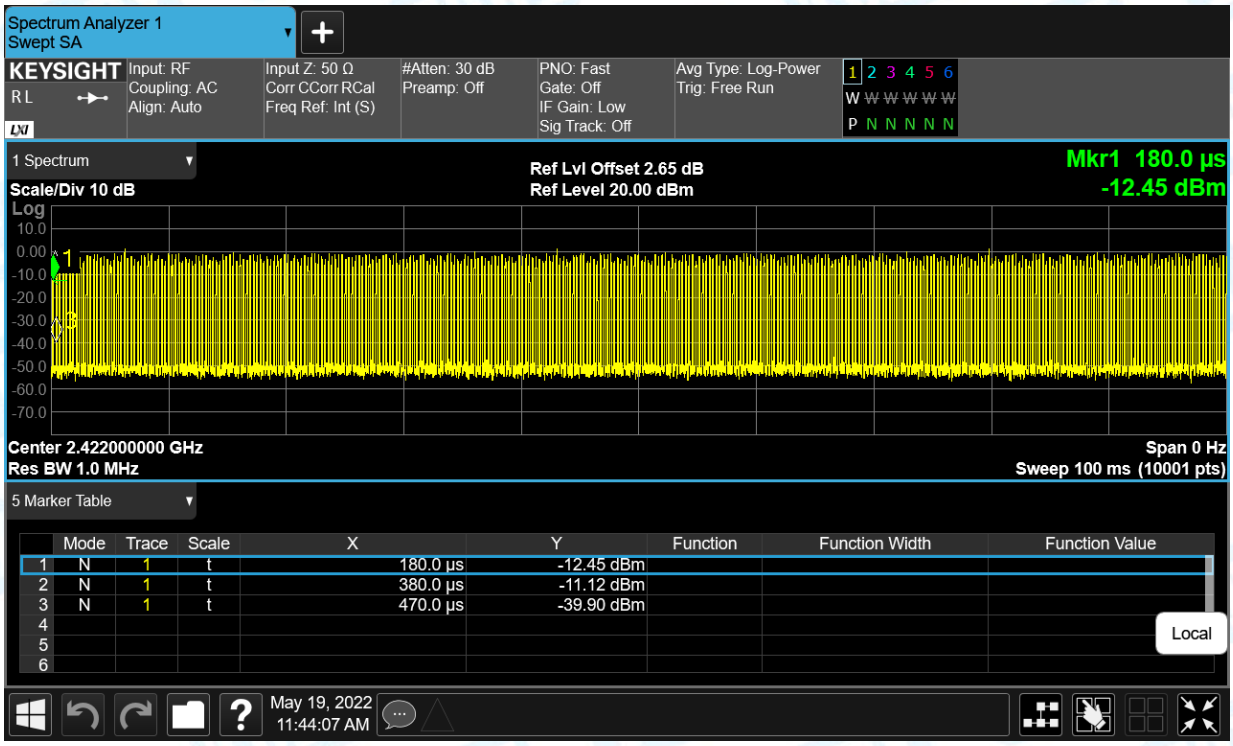
Duty Cycle NVNT n(HT20) 2437MHz Ant1



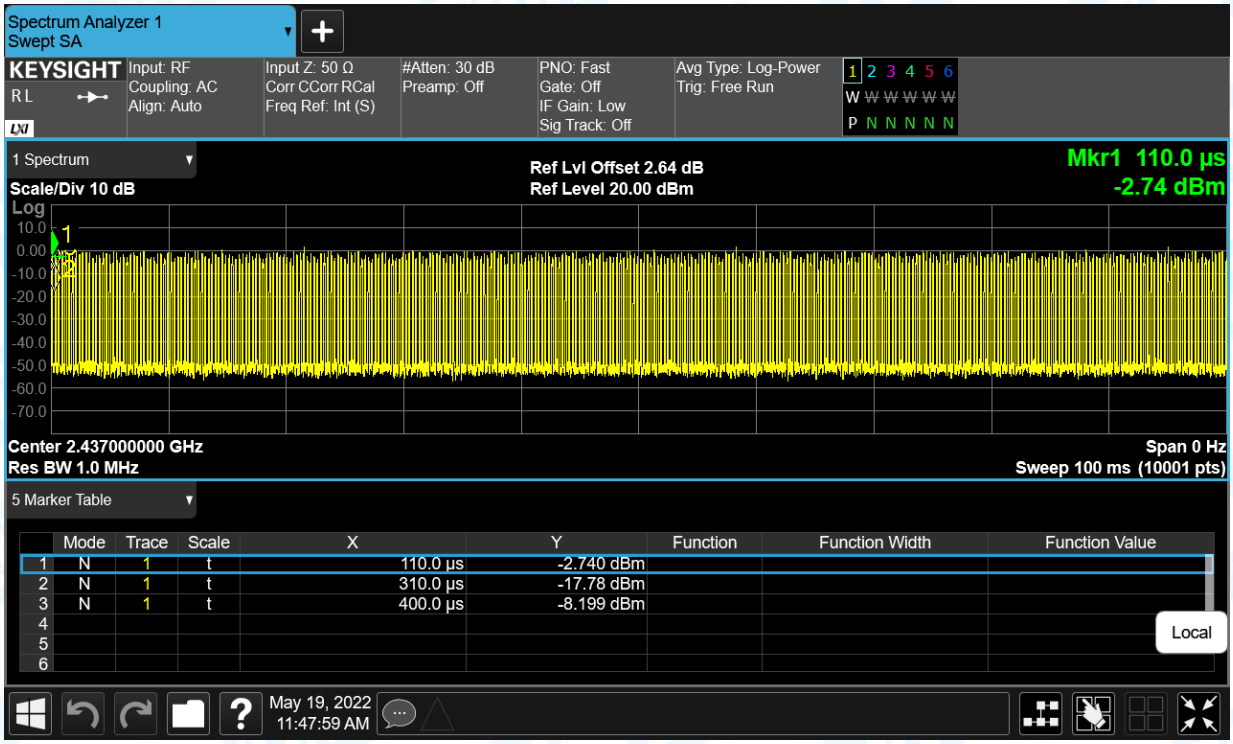
Duty Cycle NVNT n(HT20) 2462MHz Ant1



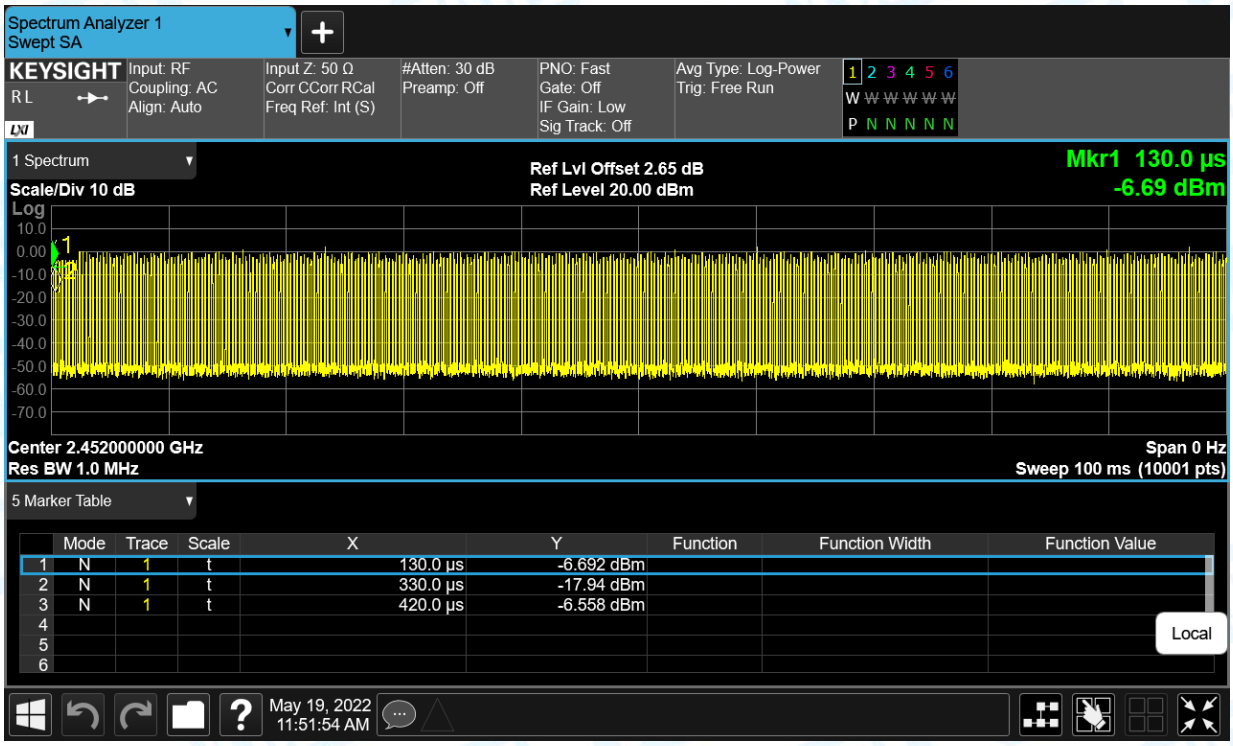
Duty Cycle NVNT n(HT40) 2422MHz Ant1



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	17.04	30	Pass
NVNT	b	2437	Ant1	17.49	30	Pass
NVNT	b	2462	Ant1	17.55	30	Pass
NVNT	g	2412	Ant1	17.89	30	Pass
NVNT	g	2437	Ant1	18.14	30	Pass
NVNT	g	2462	Ant1	18.34	30	Pass
NVNT	n(HT20)	2412	Ant1	18.04	30	Pass
NVNT	n(HT20)	2437	Ant1	18.38	30	Pass
NVNT	n(HT20)	2462	Ant1	18.39	30	Pass
NVNT	n(HT40)	2422	Ant1	14.07	30	Pass
NVNT	n(HT40)	2437	Ant1	14.21	30	Pass
NVNT	n(HT40)	2452	Ant1	14.40	30	Pass

3. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.12	0.5	Pass
NVNT	b	2437	Ant1	10.02	0.5	Pass
NVNT	b	2462	Ant1	10.05	0.5	Pass
NVNT	g	2412	Ant1	16.38	0.5	Pass
NVNT	g	2437	Ant1	16.36	0.5	Pass
NVNT	g	2462	Ant1	16.37	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.35	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.06	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.53	0.5	Pass
NVNT	n(HT40)	2422	Ant1	36.28	0.5	Pass
NVNT	n(HT40)	2437	Ant1	36.35	0.5	Pass
NVNT	n(HT40)	2452	Ant1	36.34	0.5	Pass

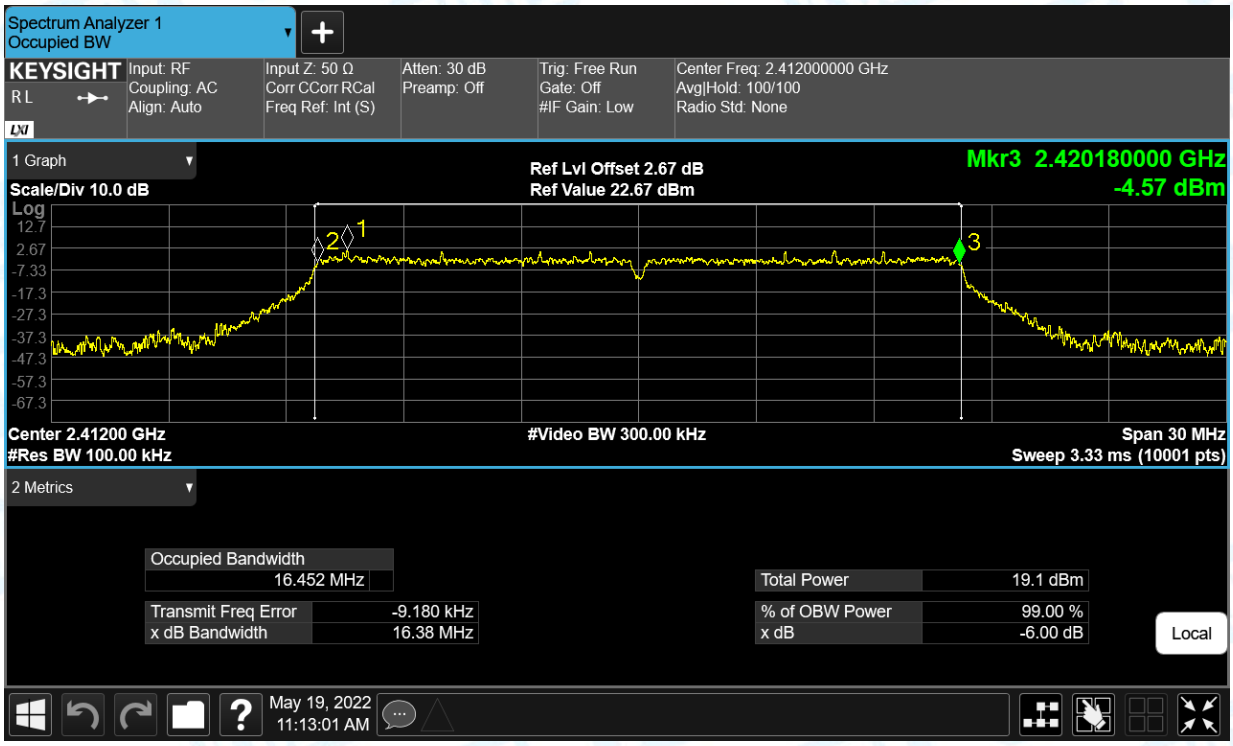
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

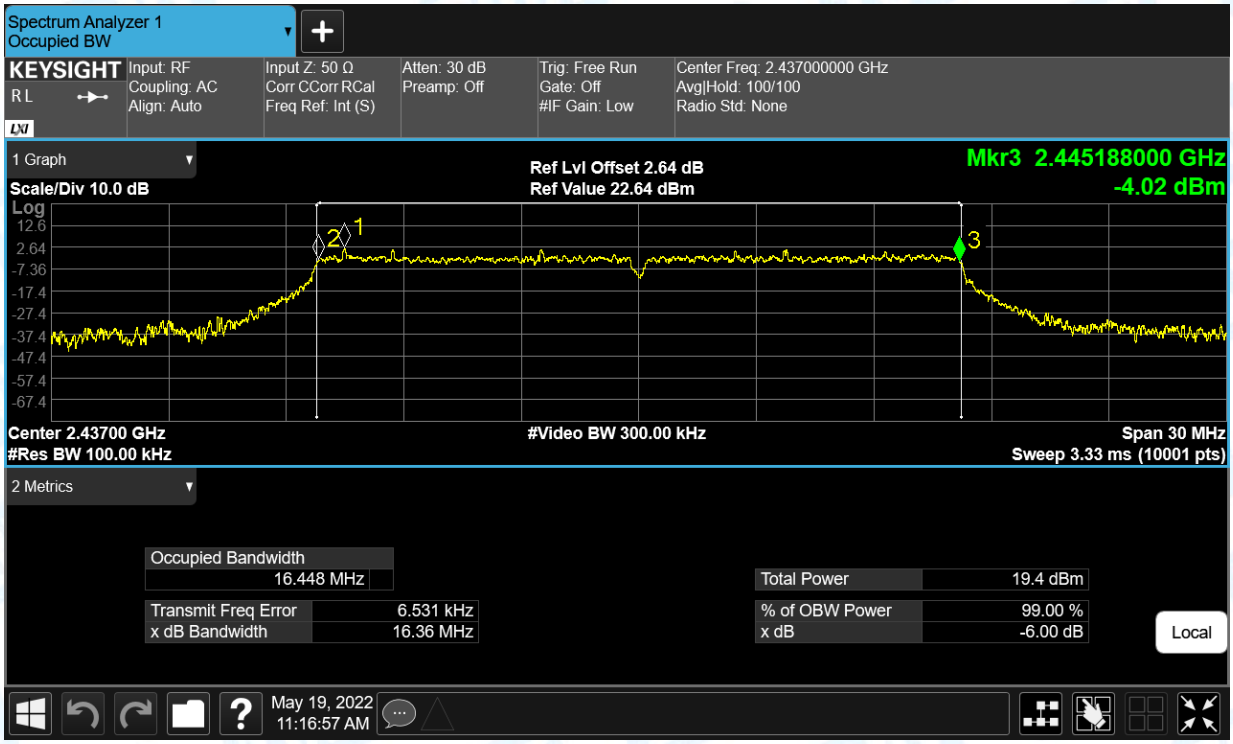
-6dB Bandwidth NVNT b 2437MHz Ant1

-6dB Bandwidth NVNT b 2462MHz Ant1

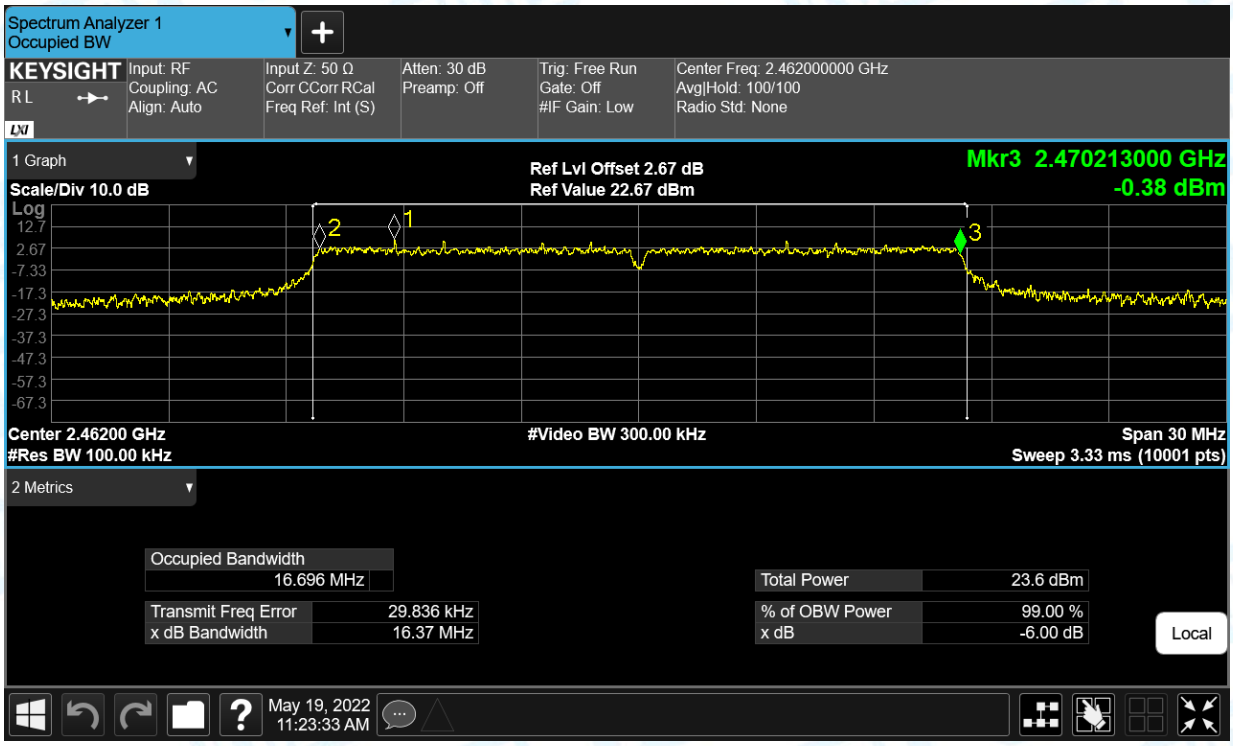
-6dB Bandwidth NVNT g 2412MHz Ant1



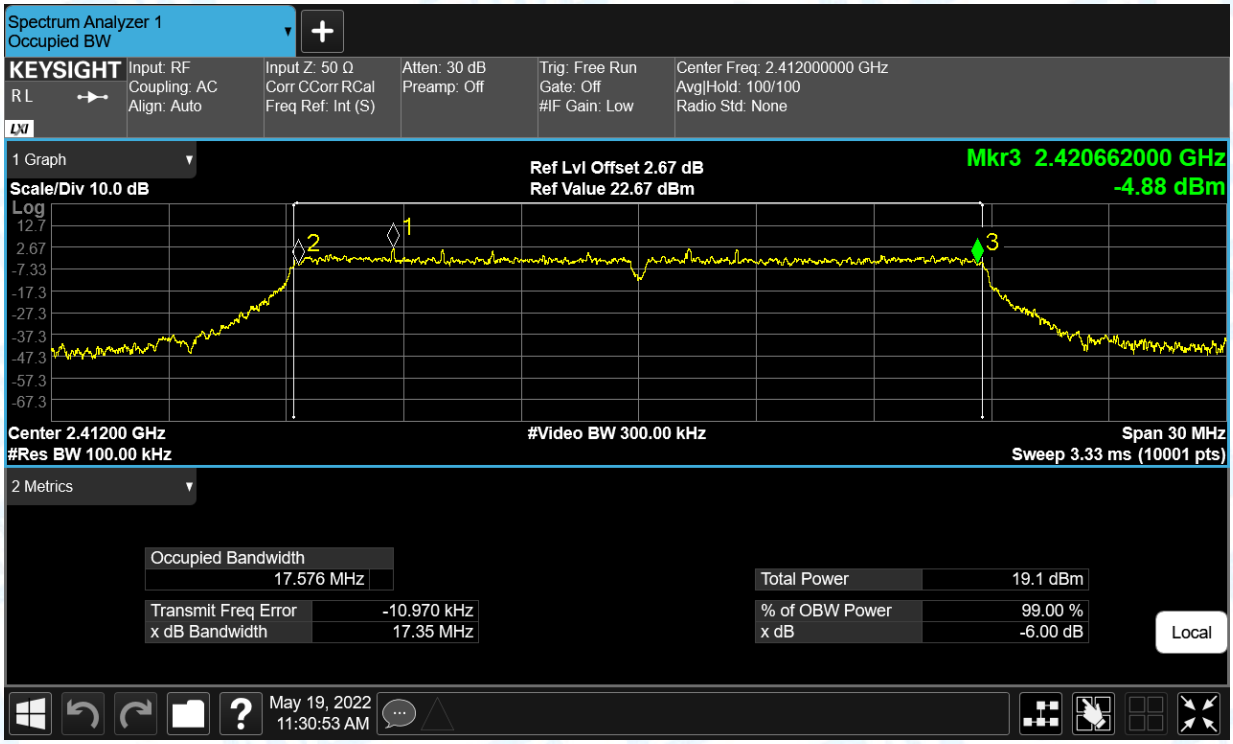
-6dB Bandwidth NVNT g 2437MHz Ant1



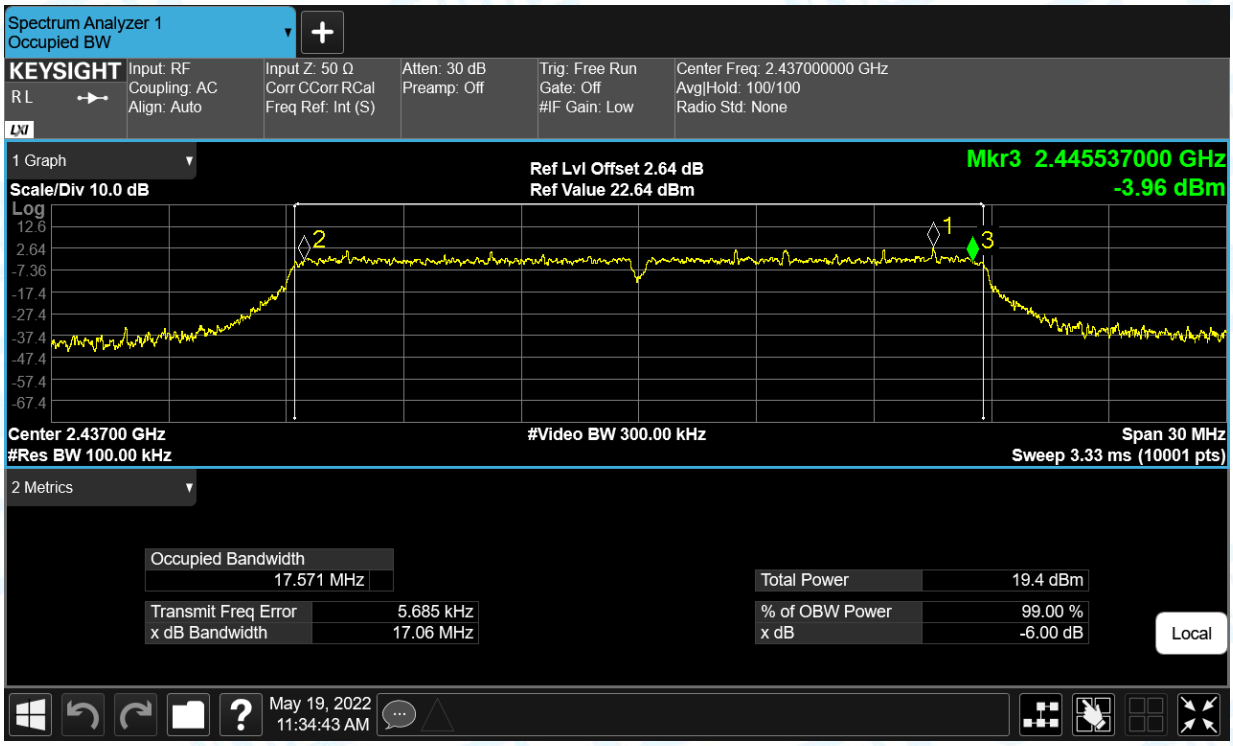
-6dB Bandwidth NVNT g 2462MHz Ant1



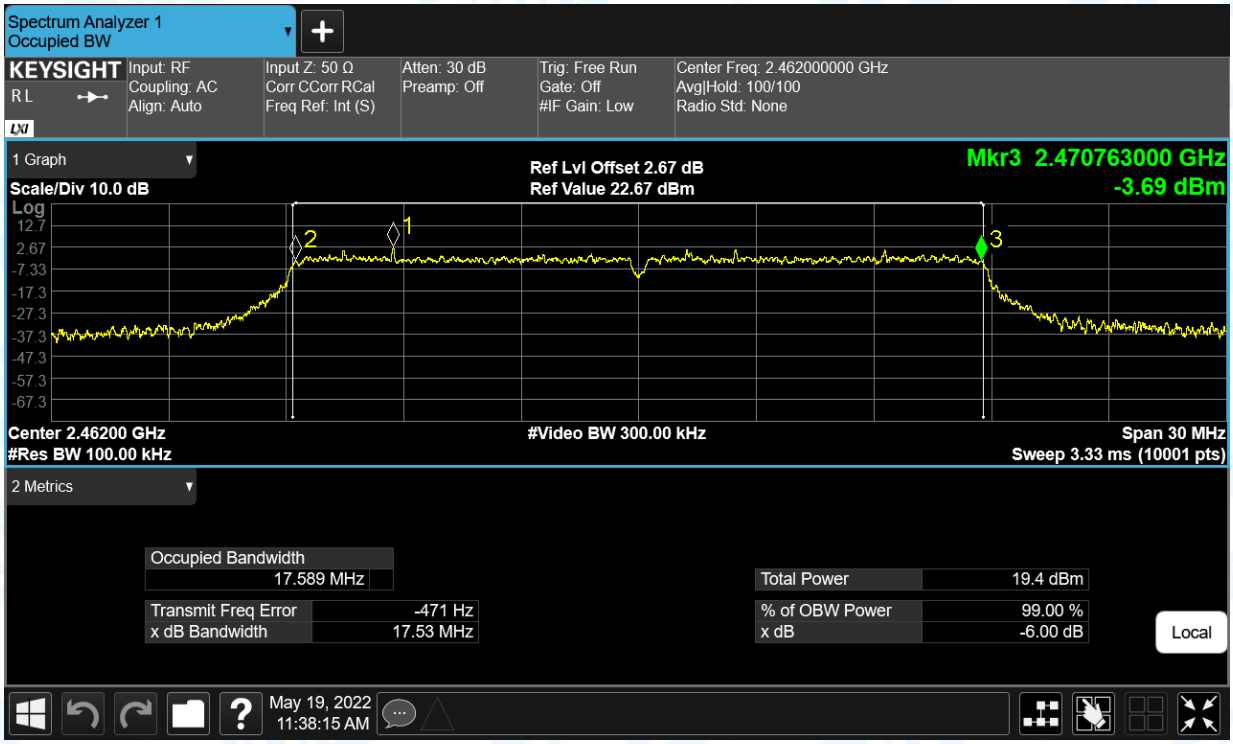
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



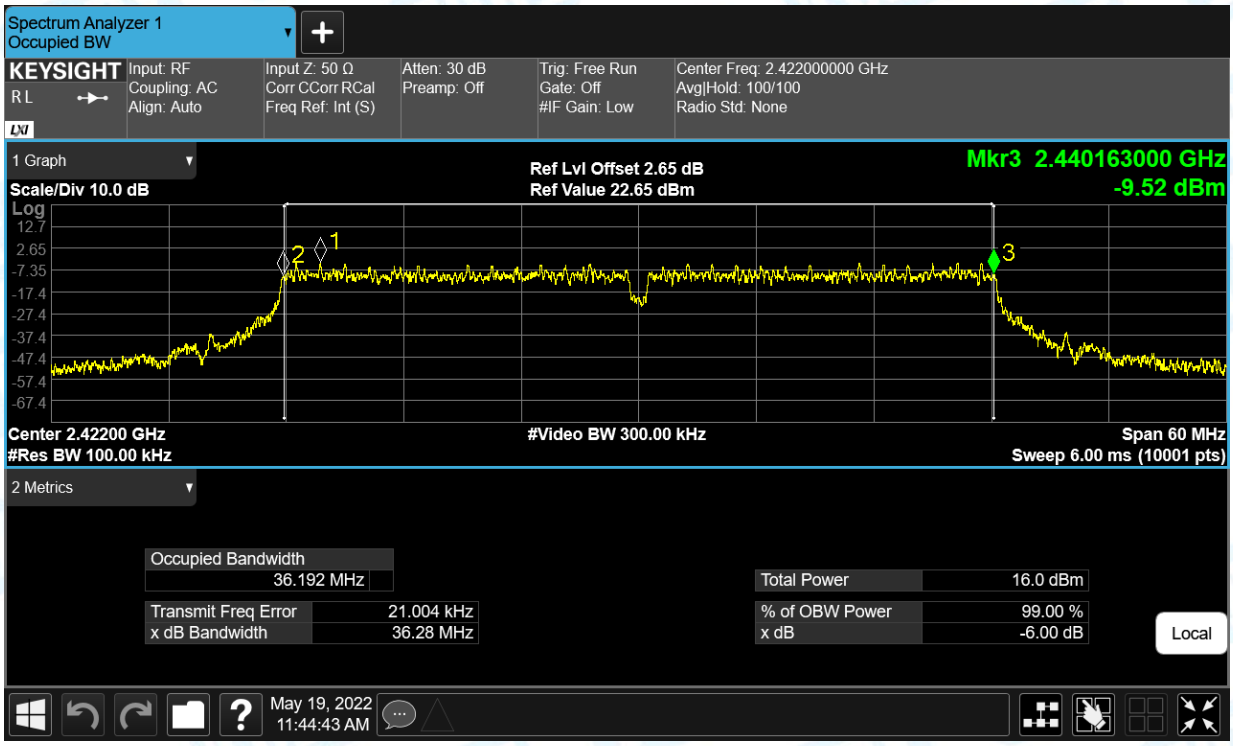
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



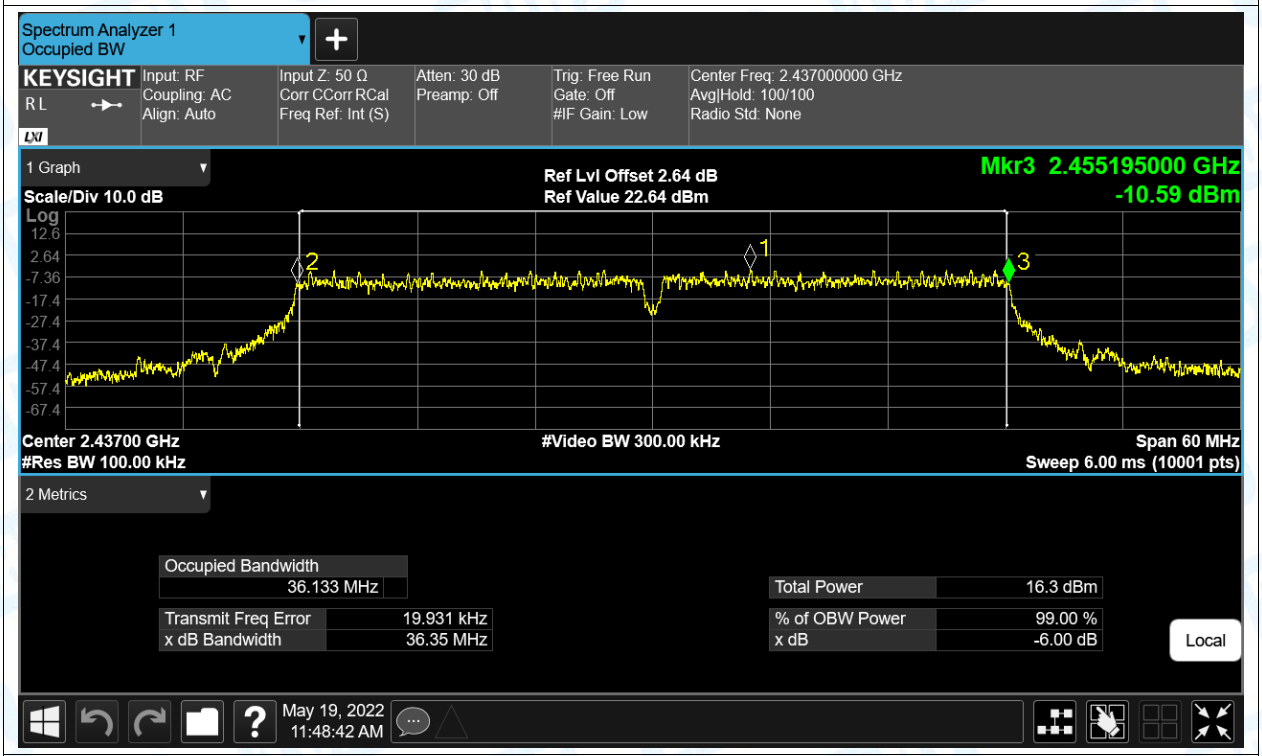
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



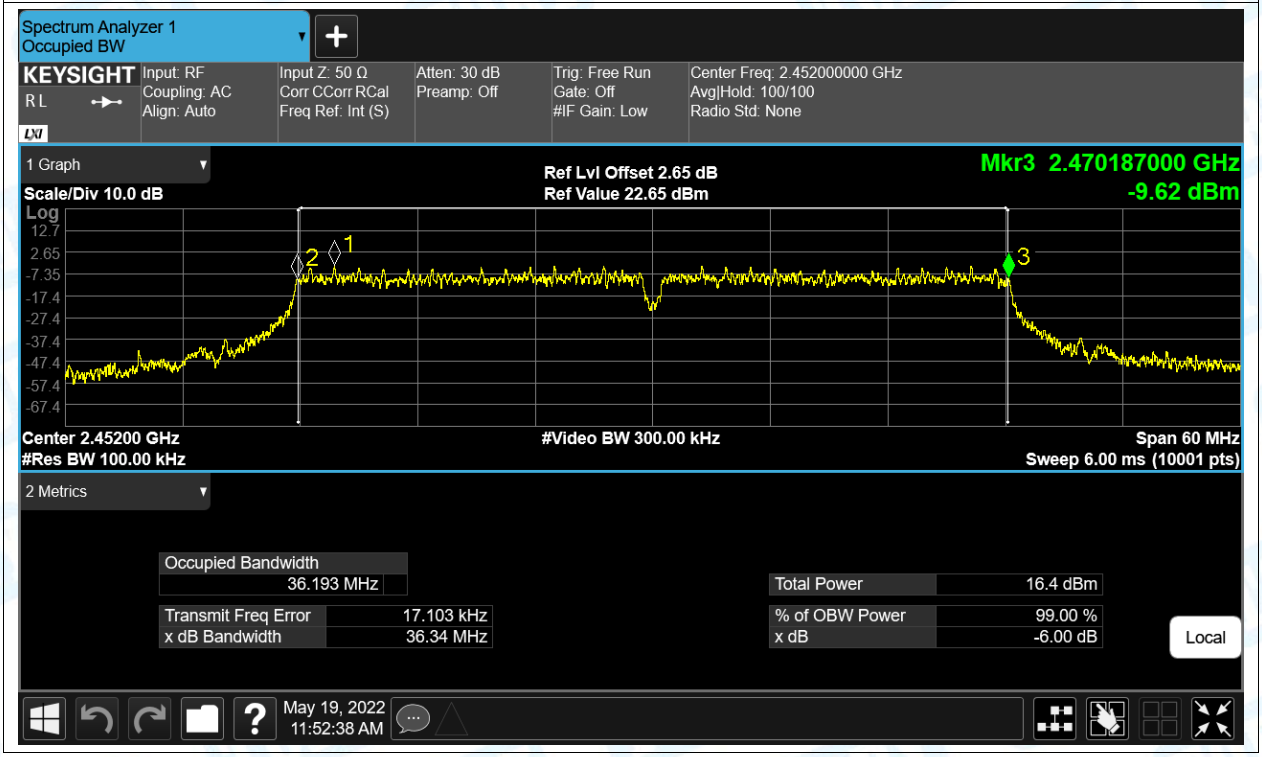
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

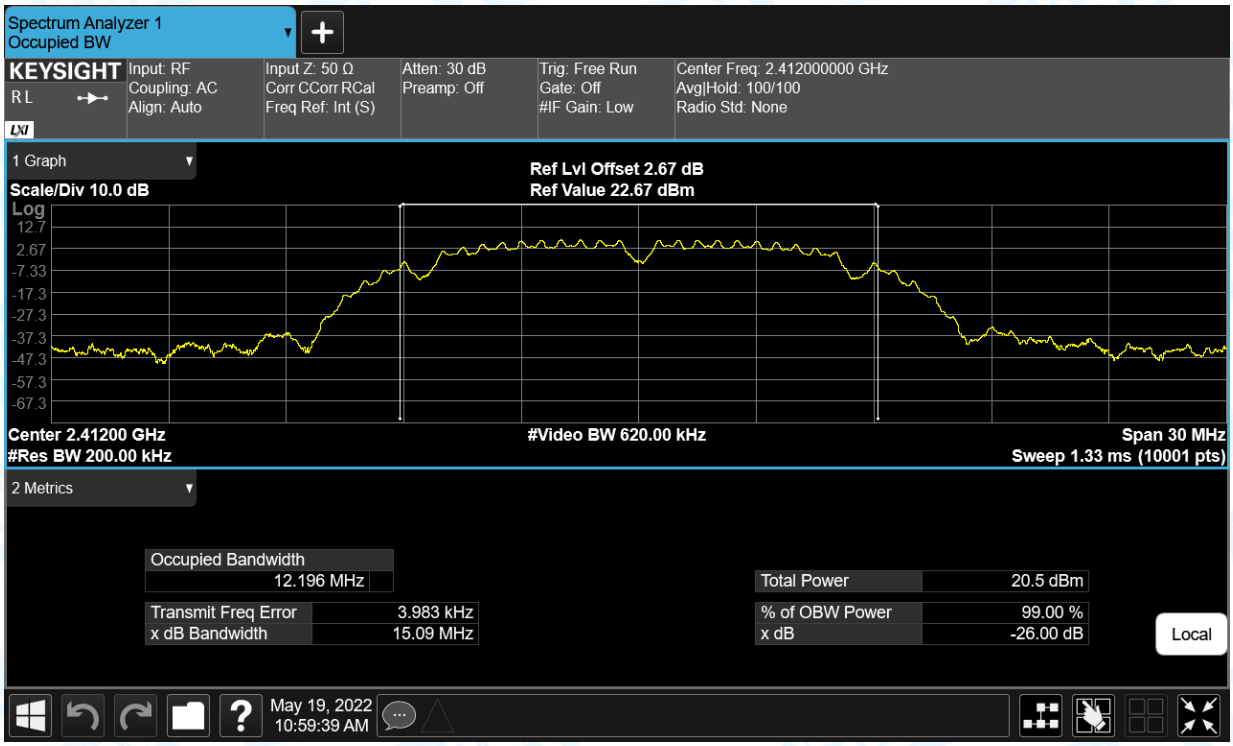


4. Occupied Channel Bandwidth

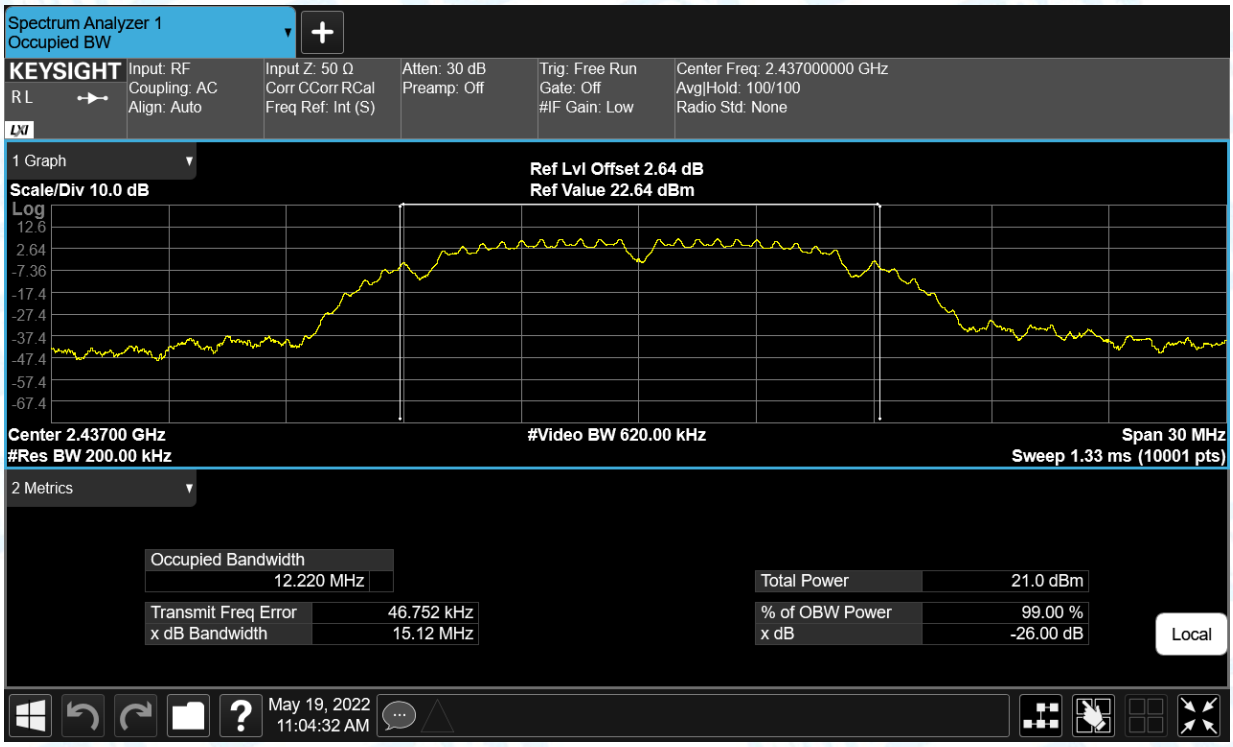
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.196
NVNT	b	2437	Ant1	12.22
NVNT	b	2462	Ant1	12.278
NVNT	g	2412	Ant1	16.548
NVNT	g	2437	Ant1	16.55
NVNT	g	2462	Ant1	16.885
NVNT	n(HT20)	2412	Ant1	17.638
NVNT	n(HT20)	2437	Ant1	17.63
NVNT	n(HT20)	2462	Ant1	17.646
NVNT	n(HT40)	2422	Ant1	36.284
NVNT	n(HT40)	2437	Ant1	36.255
NVNT	n(HT40)	2452	Ant1	36.25

Test Graphs

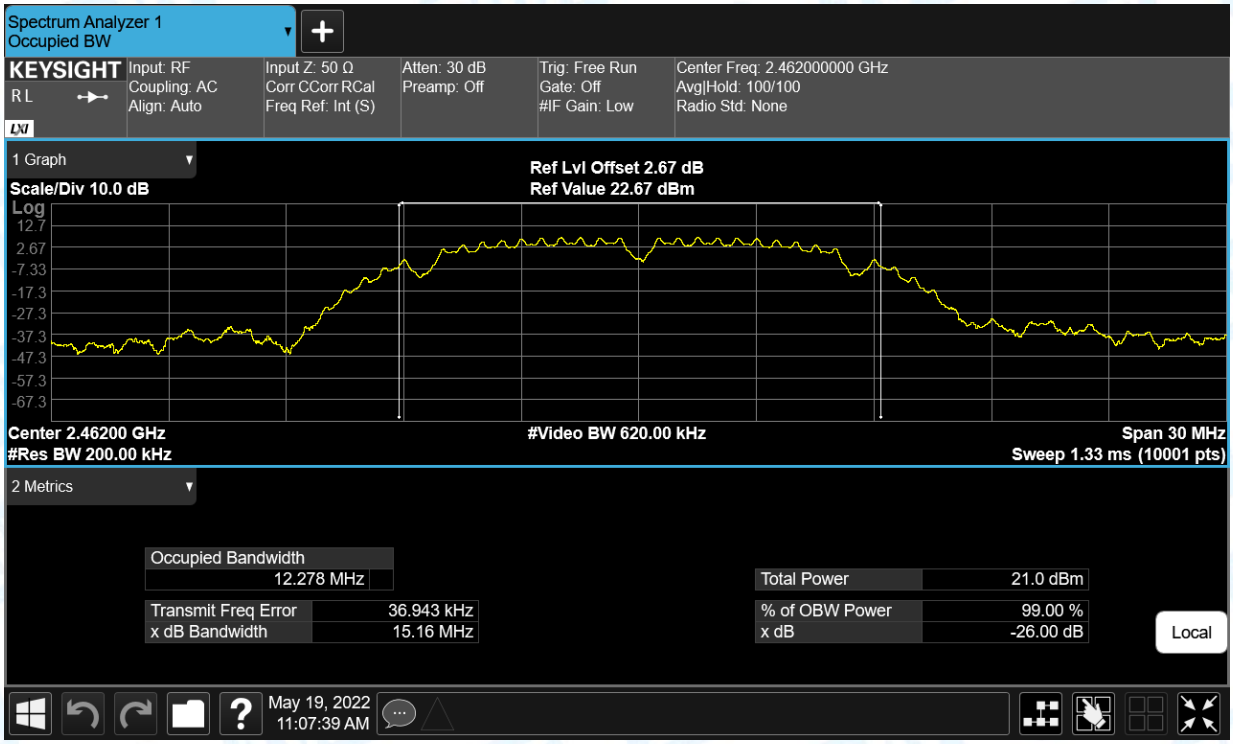
OBW NVNT b 2412MHz Ant1



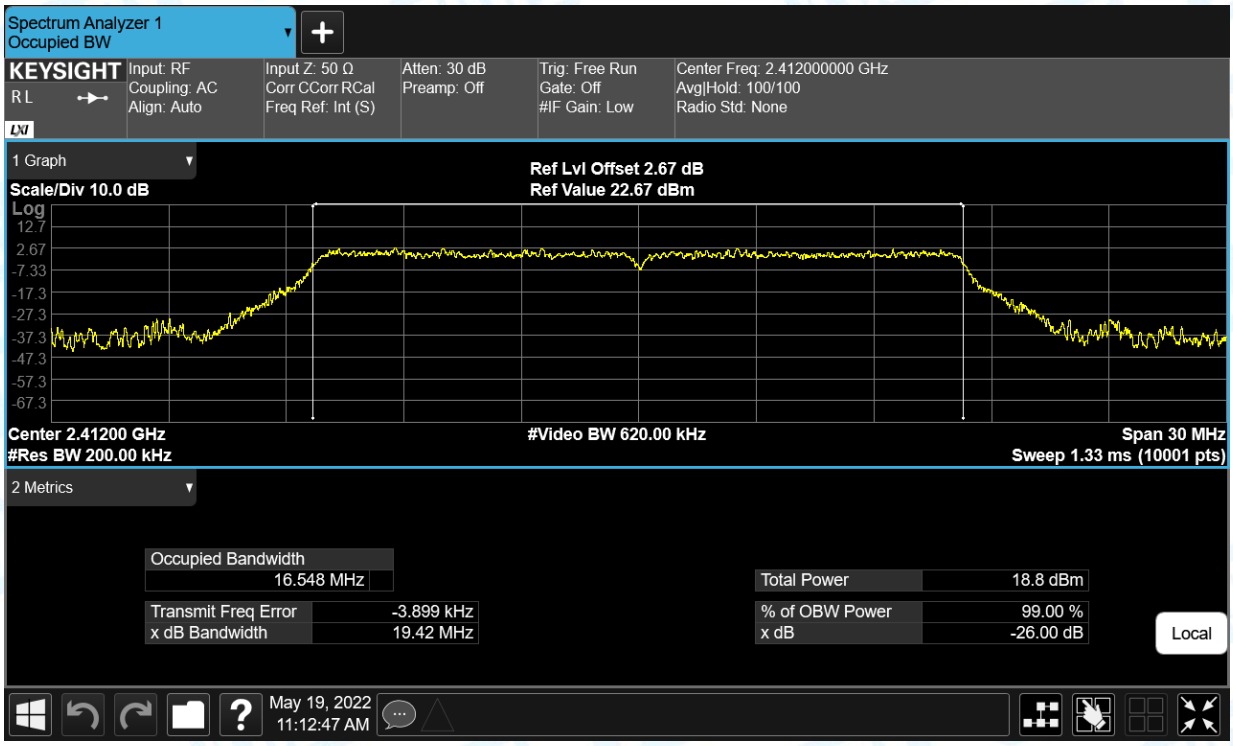
OBW NVNT b 2437MHz Ant1



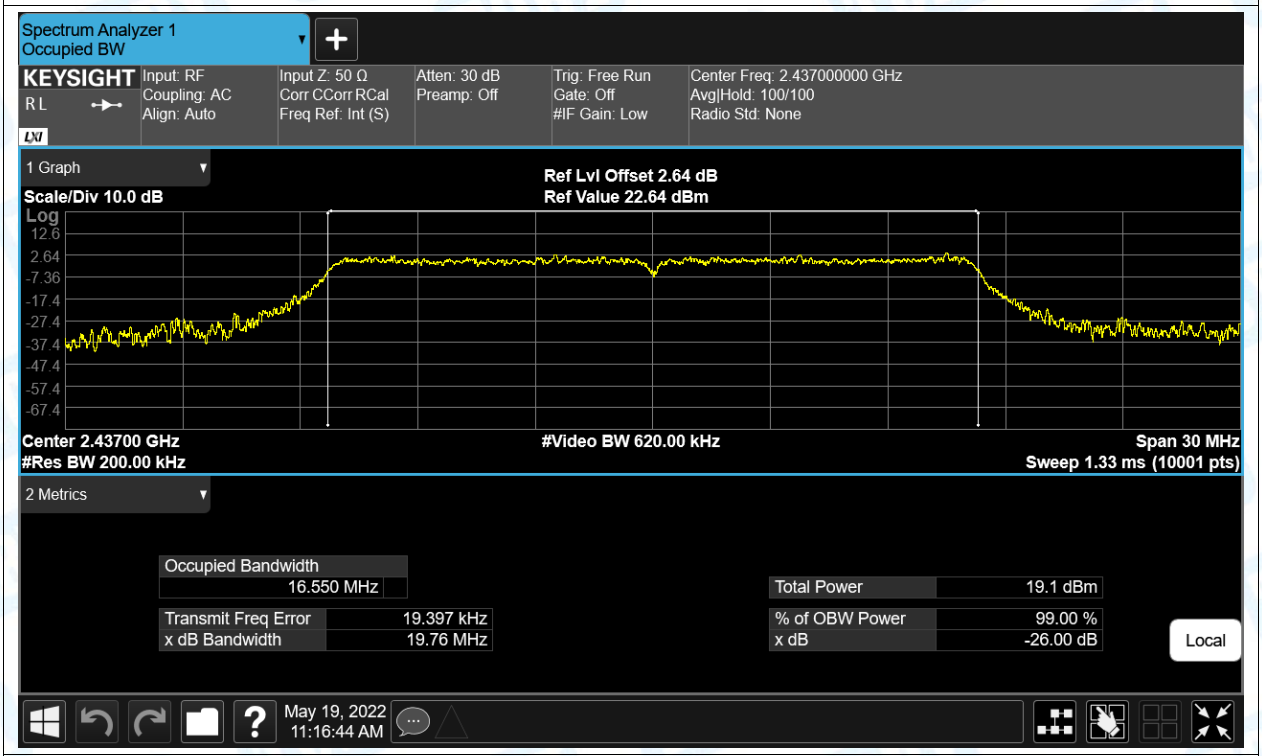
OBW NVNT b 2462MHz Ant1



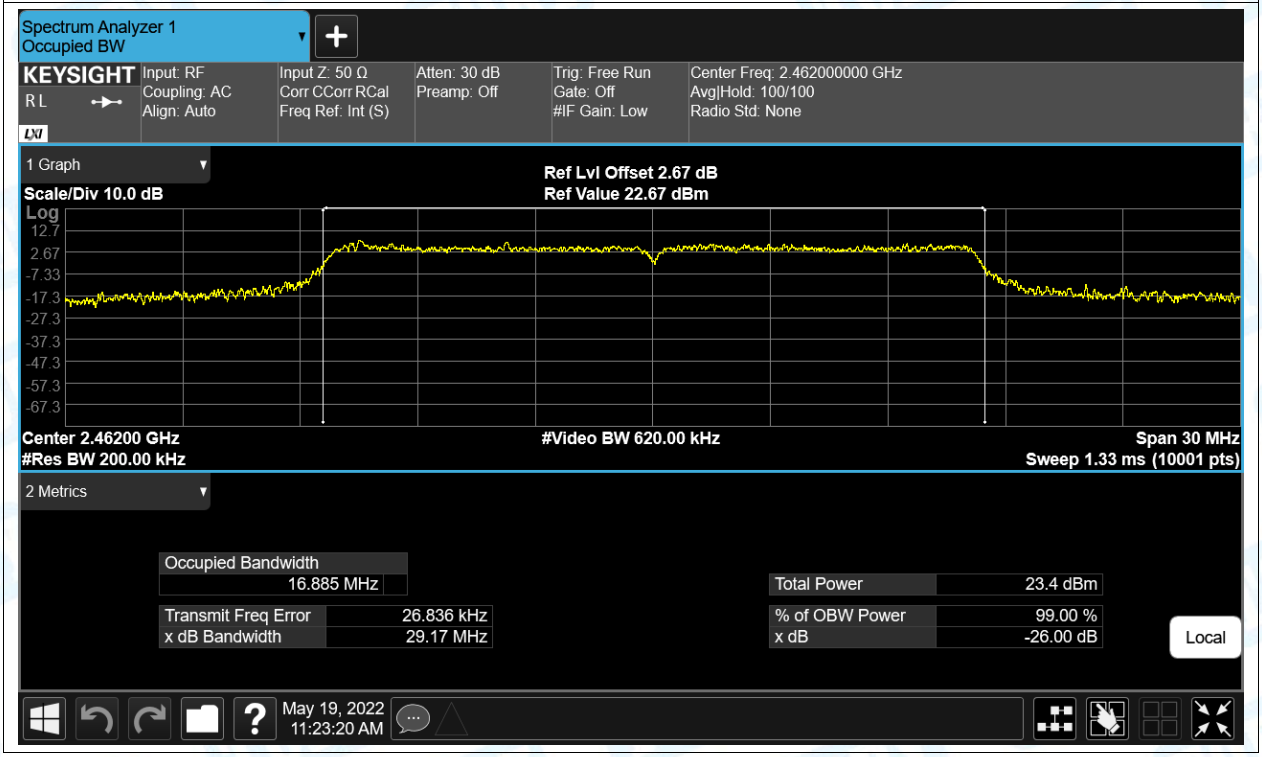
OBW NVNT g 2412MHz Ant1



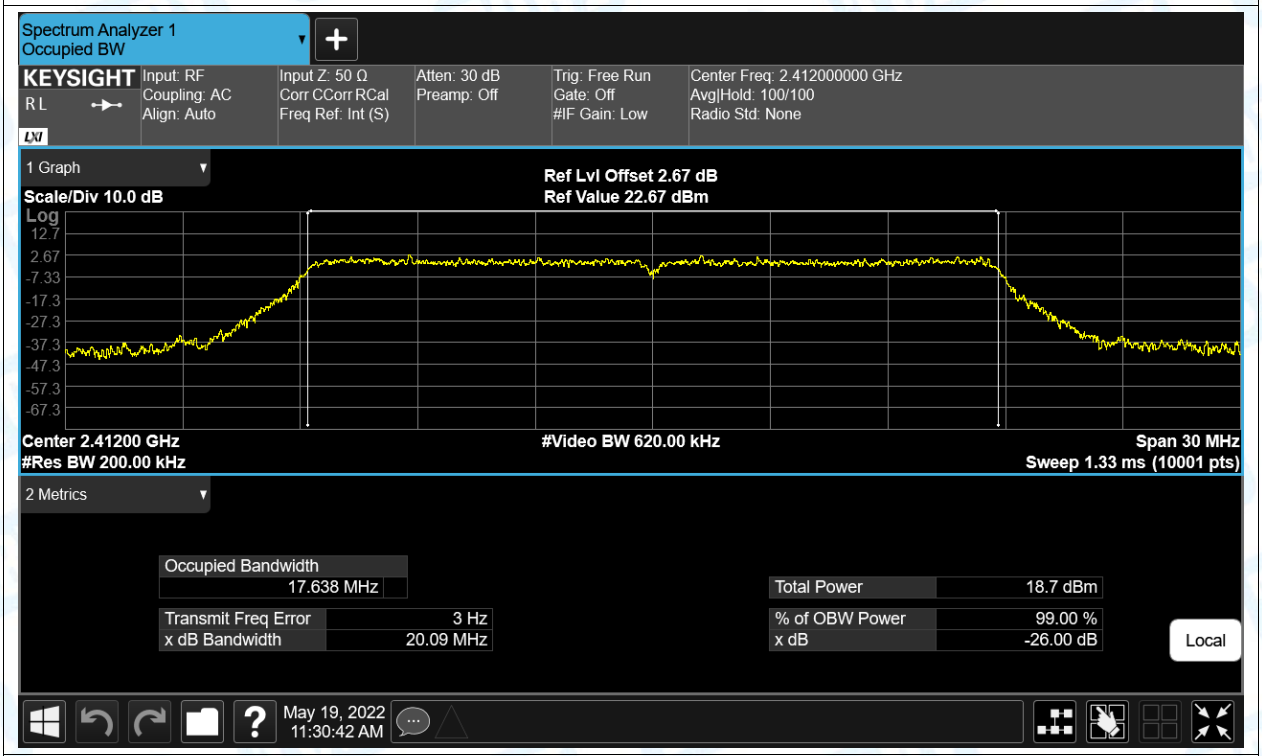
OBW NVNT g 2437MHz Ant1



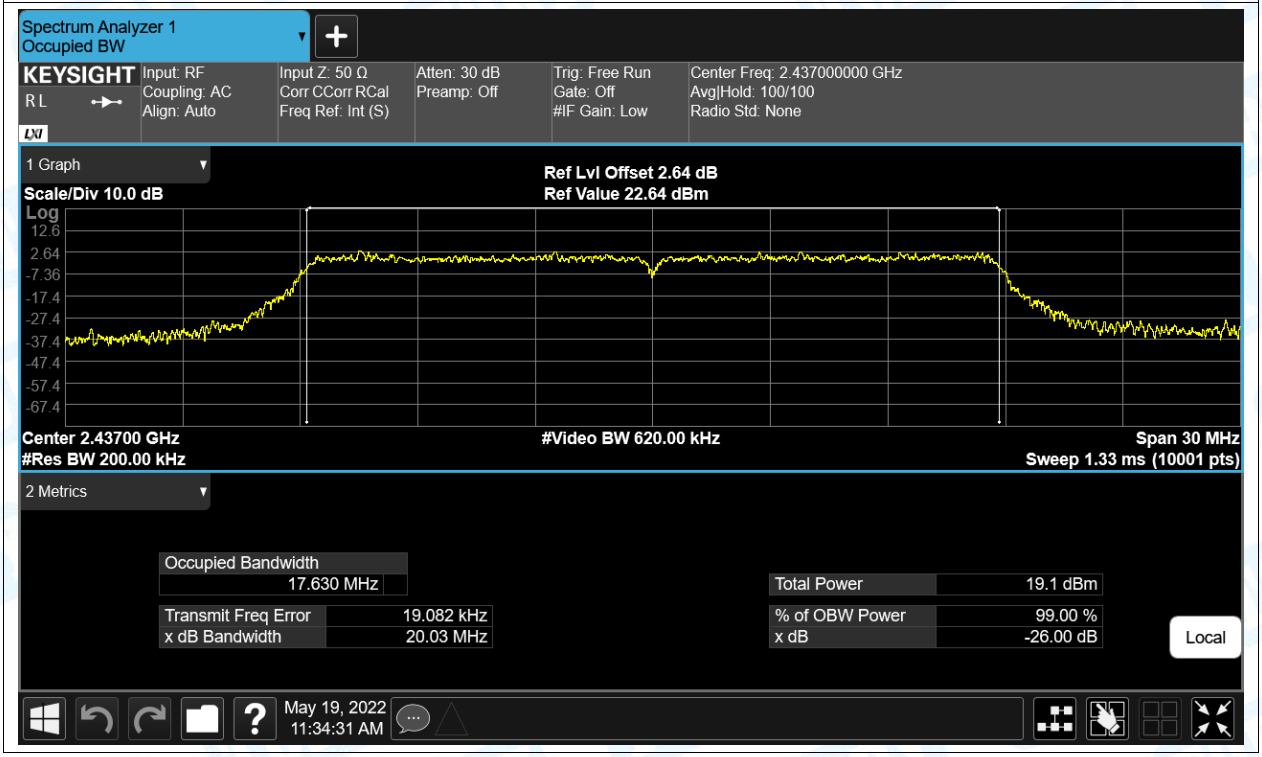
OBW NVNT g 2462MHz Ant1



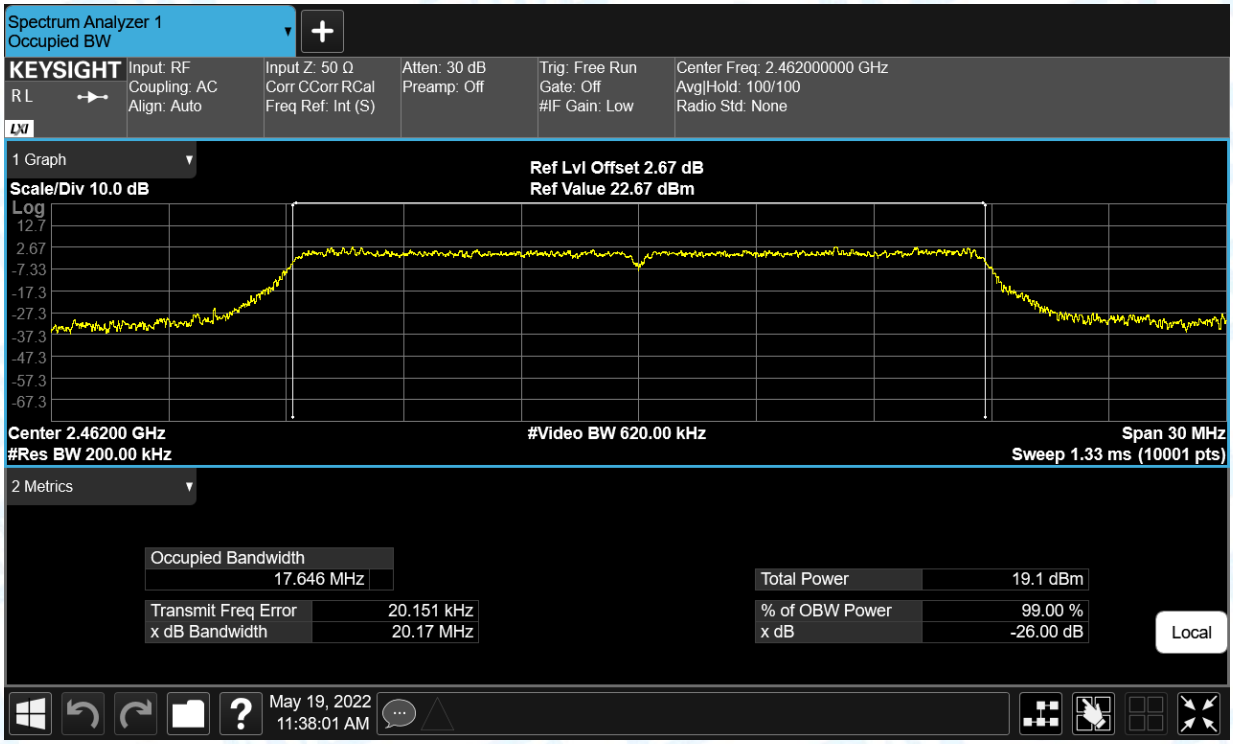
OBW NVNT n(HT20) 2412MHz Ant1



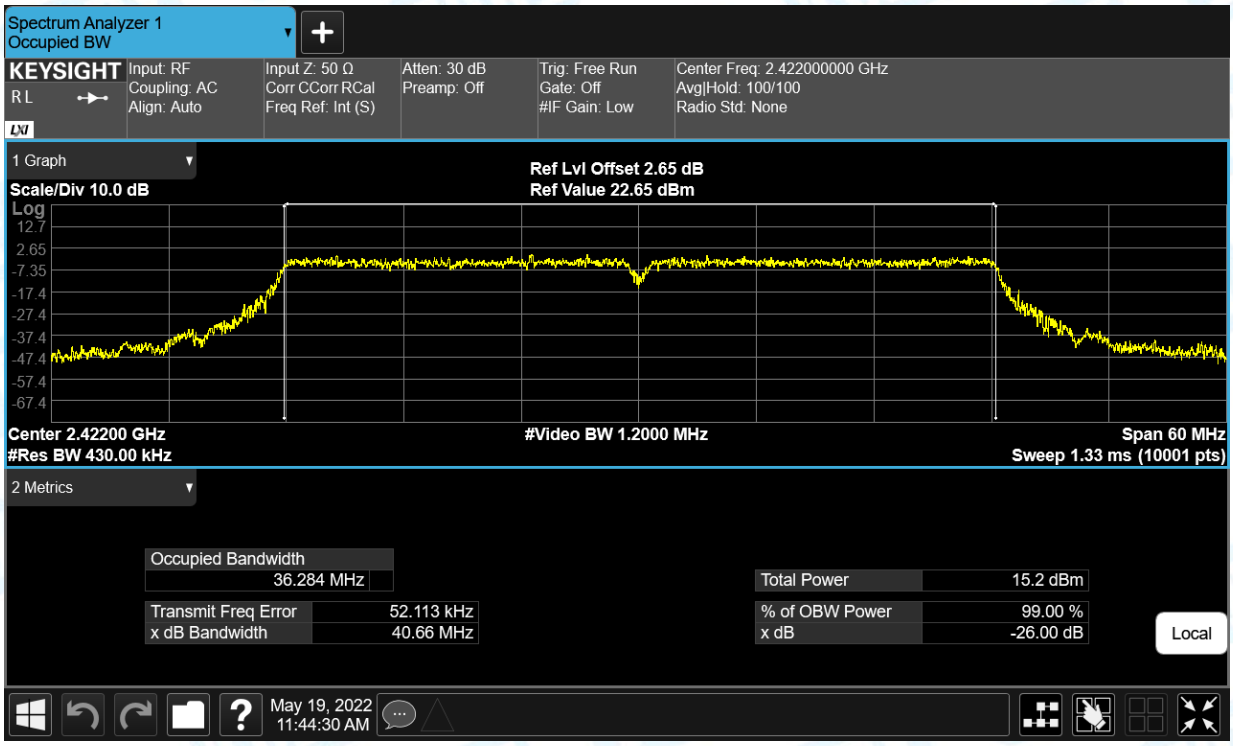
OBW NVNT n(HT20) 2437MHz Ant1



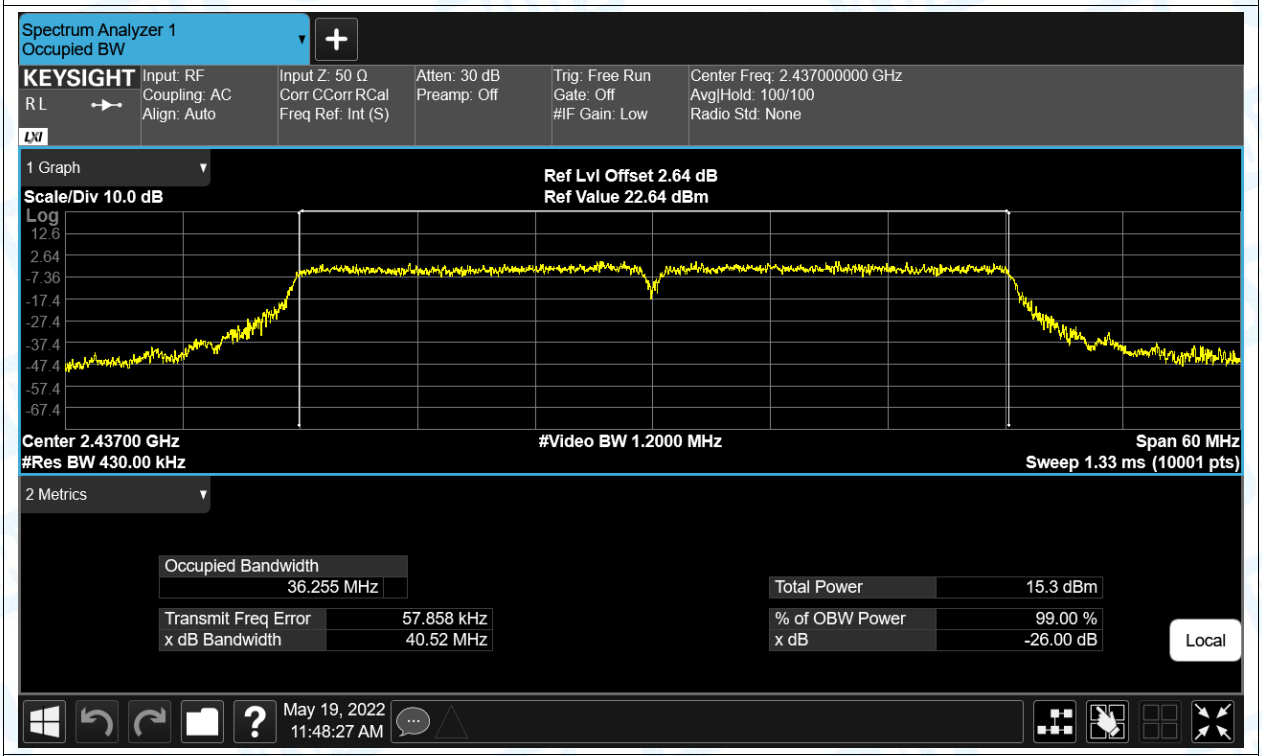
OBW NVNT n(HT20) 2462MHz Ant1



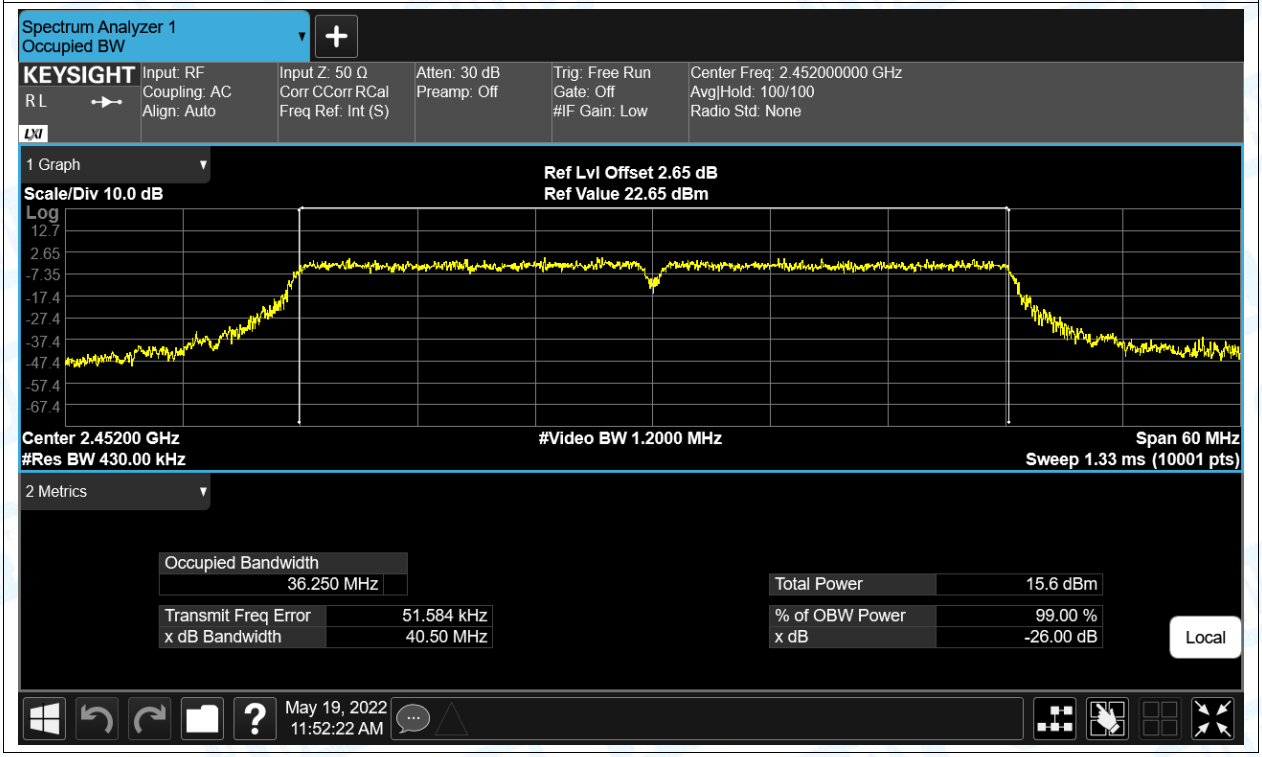
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1

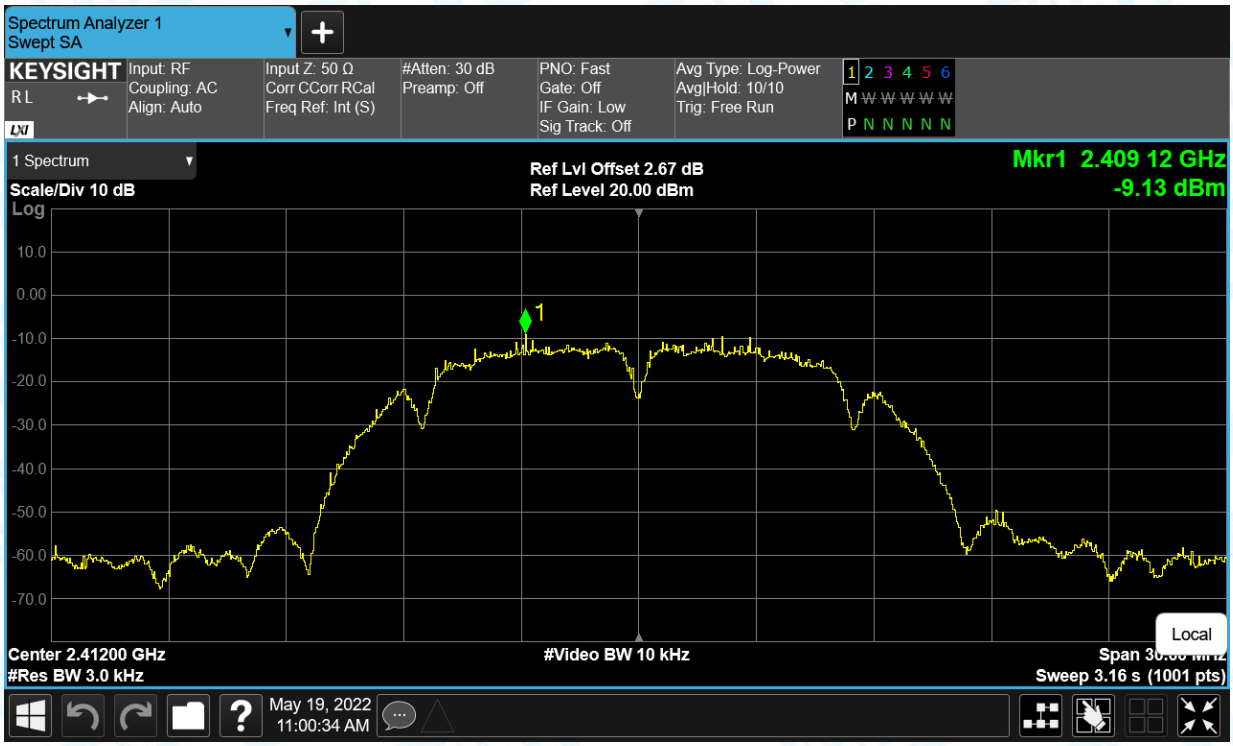


5. Maximum Power Spectral Density Level

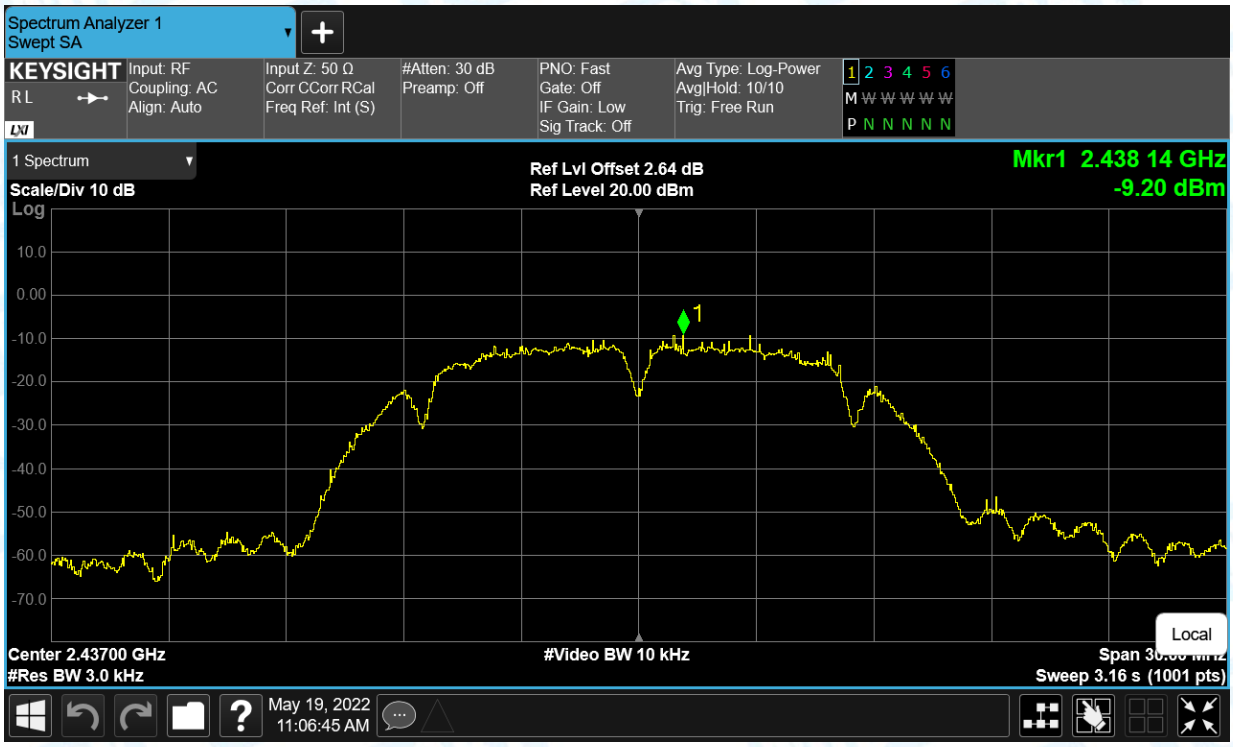
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-9.133	8	Pass
NVNT	b	2437	Ant1	-9.205	8	Pass
NVNT	b	2462	Ant1	-8.506	8	Pass
NVNT	g	2412	Ant1	-12.972	8	Pass
NVNT	g	2437	Ant1	-13.53	8	Pass
NVNT	g	2462	Ant1	-12.945	8	Pass
NVNT	n(HT20)	2412	Ant1	-13.509	8	Pass
NVNT	n(HT20)	2437	Ant1	-13.274	8	Pass
NVNT	n(HT20)	2462	Ant1	-12.285	8	Pass
NVNT	n(HT40)	2422	Ant1	-21.281	8	Pass
NVNT	n(HT40)	2437	Ant1	-20.217	8	Pass
NVNT	n(HT40)	2452	Ant1	-20.547	8	Pass

Test Graphs

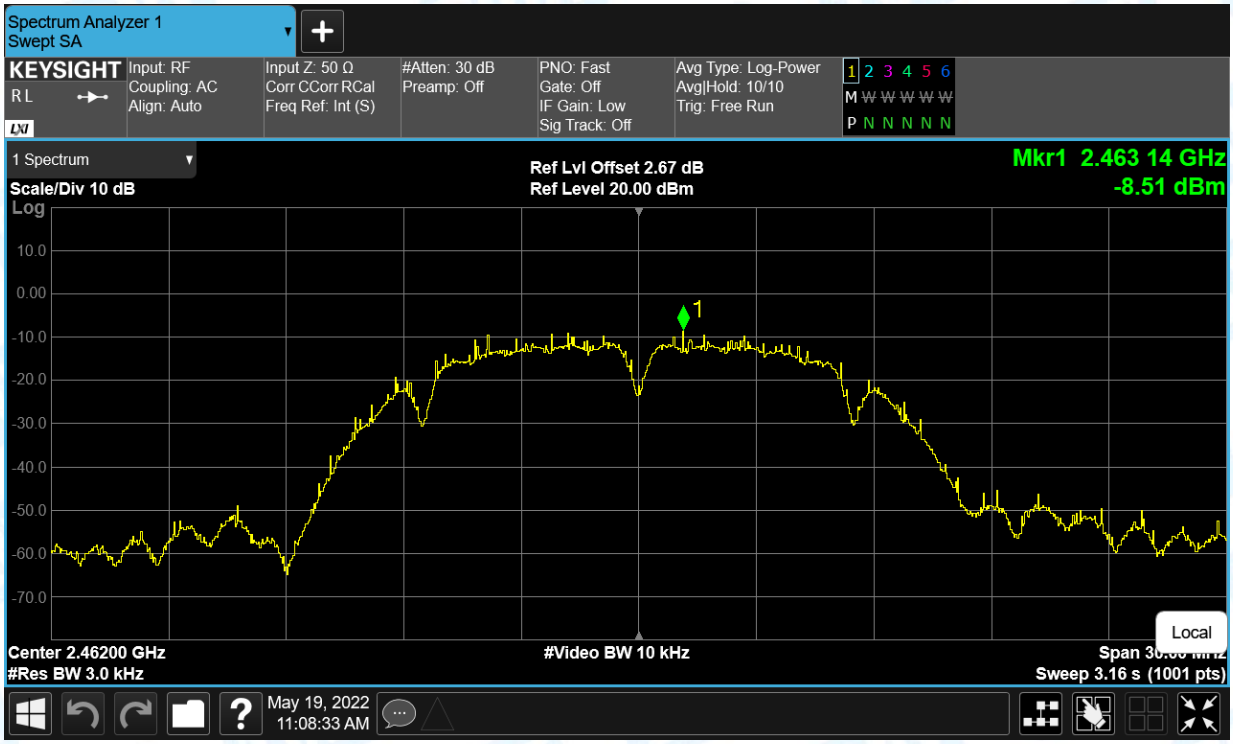
PSD NVNT b 2412MHz Ant1



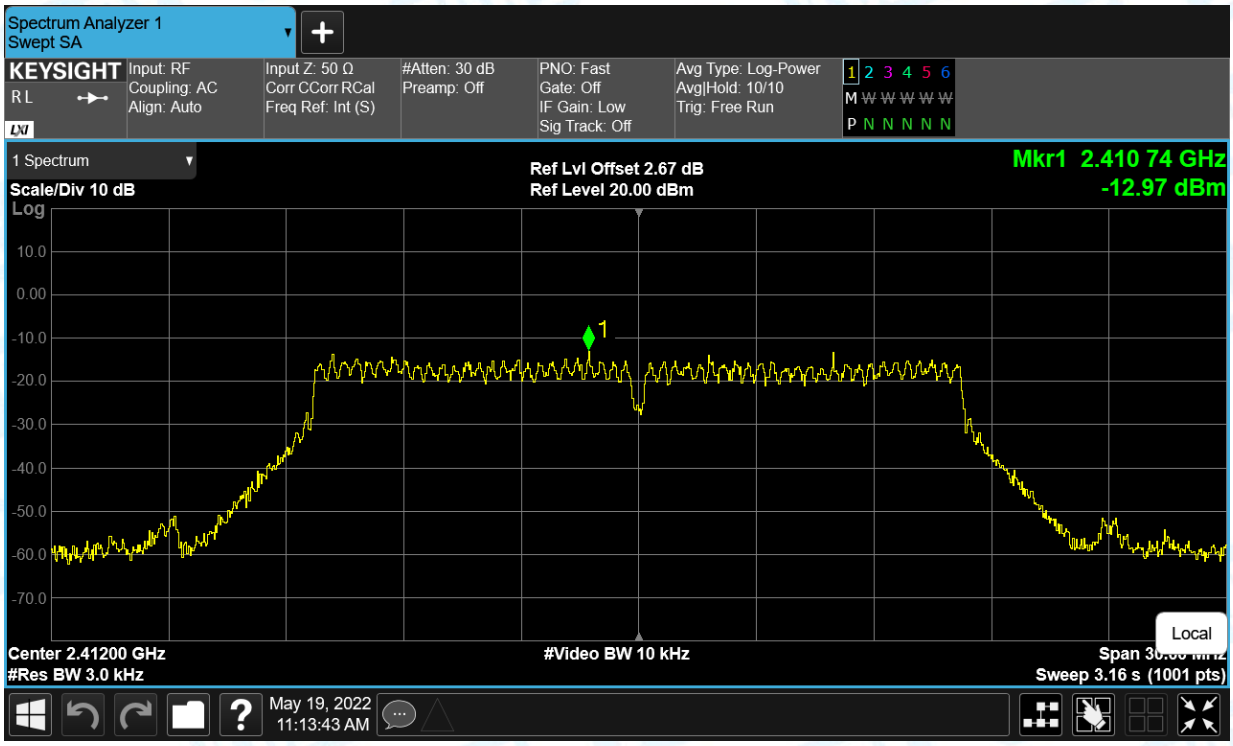
PSD NVNT b 2437MHz Ant1



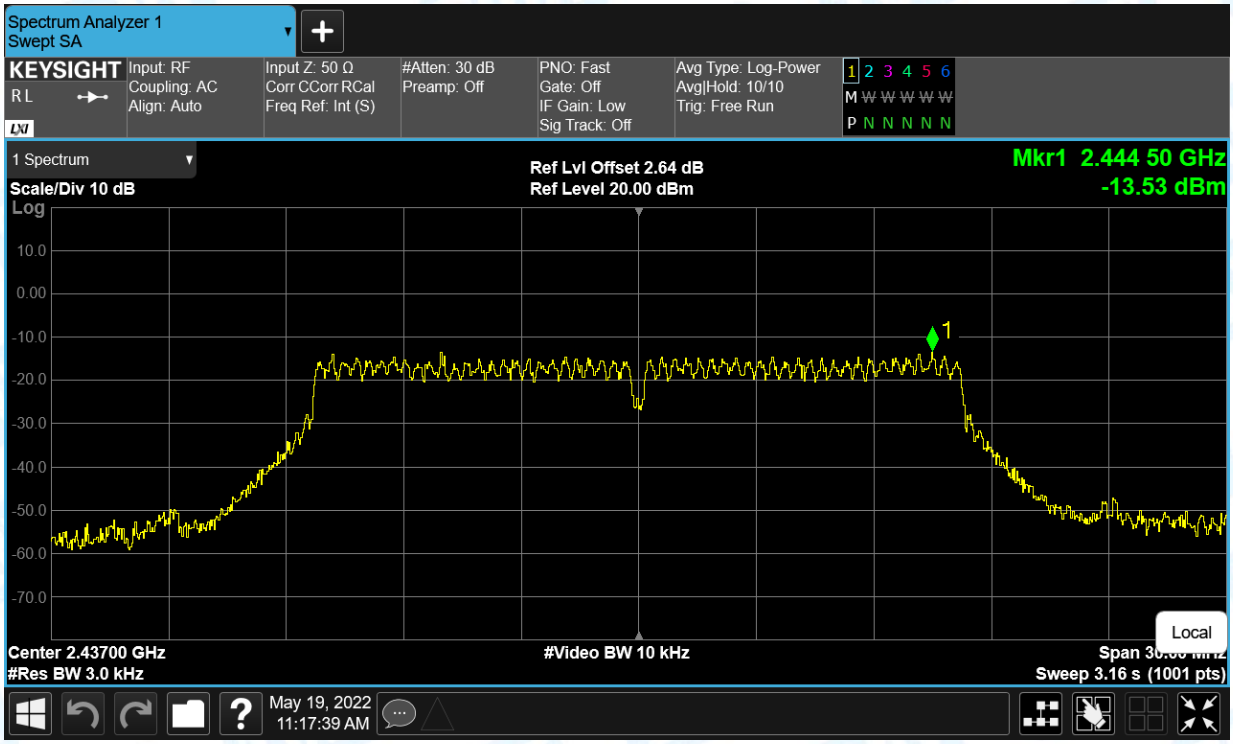
PSD NVNT b 2462MHz Ant1



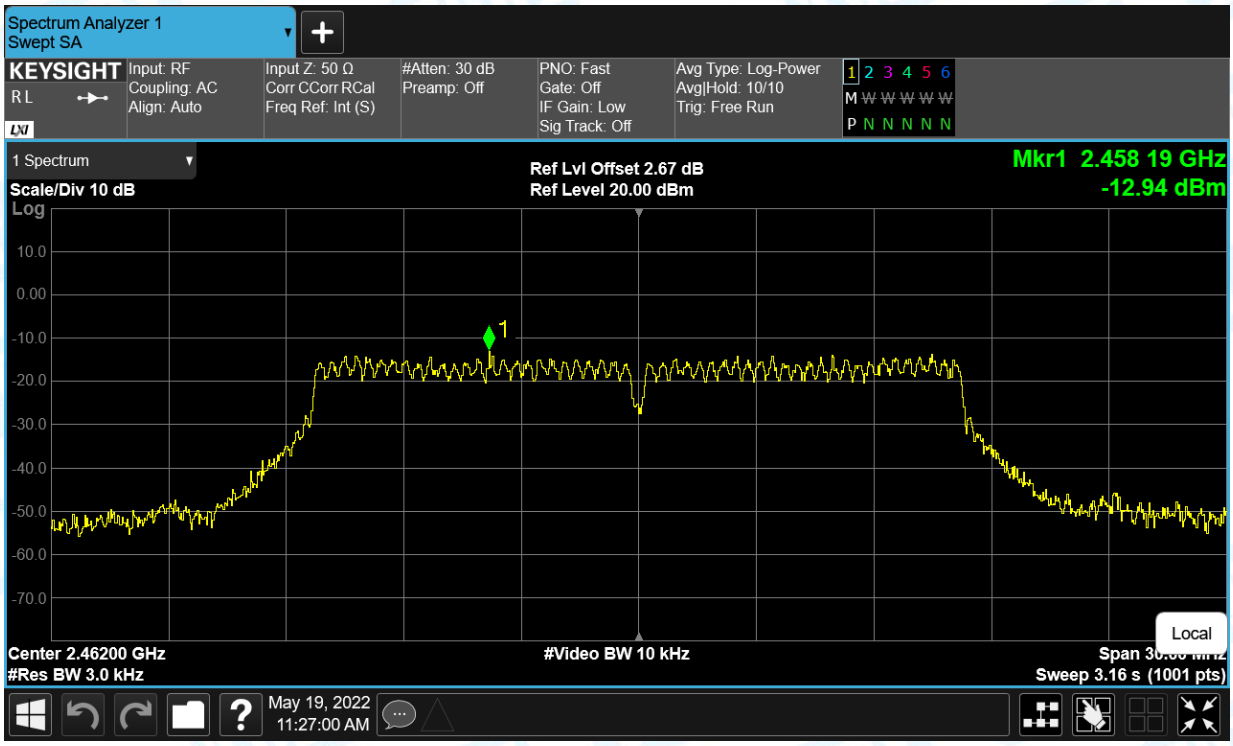
PSD NVNT g 2412MHz Ant1



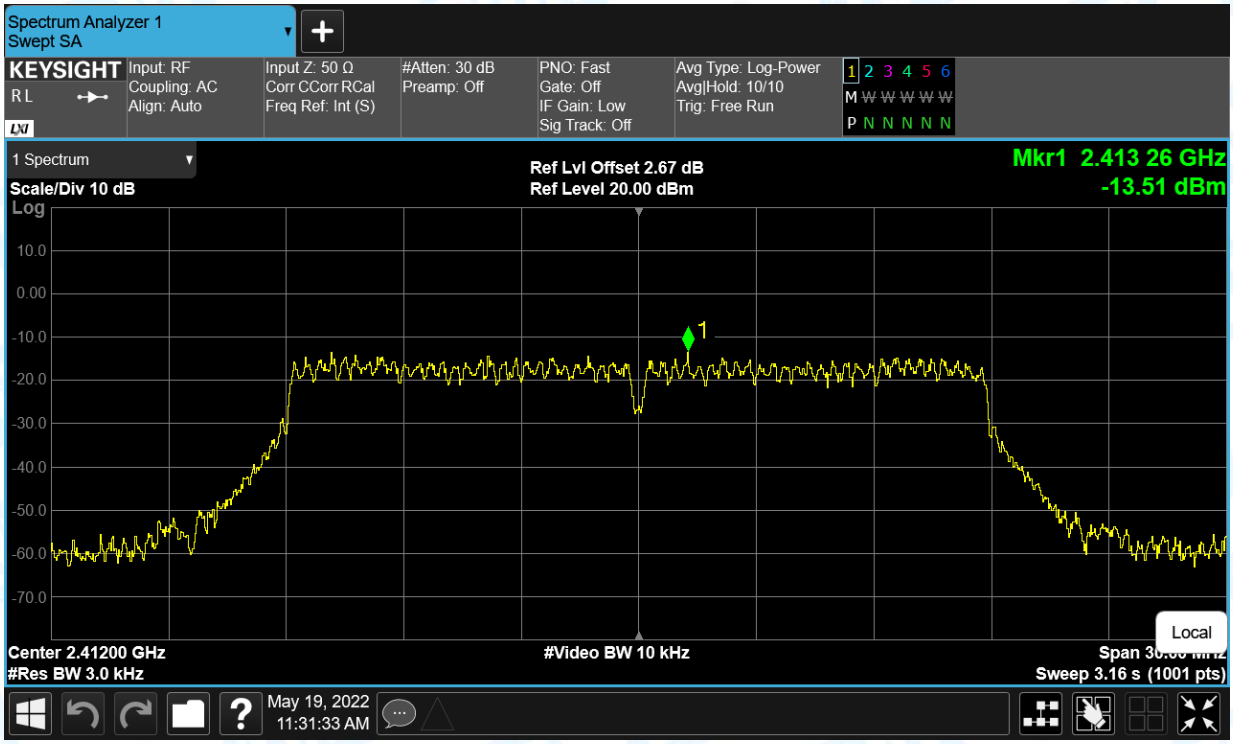
PSD NVNT g 2437MHz Ant1



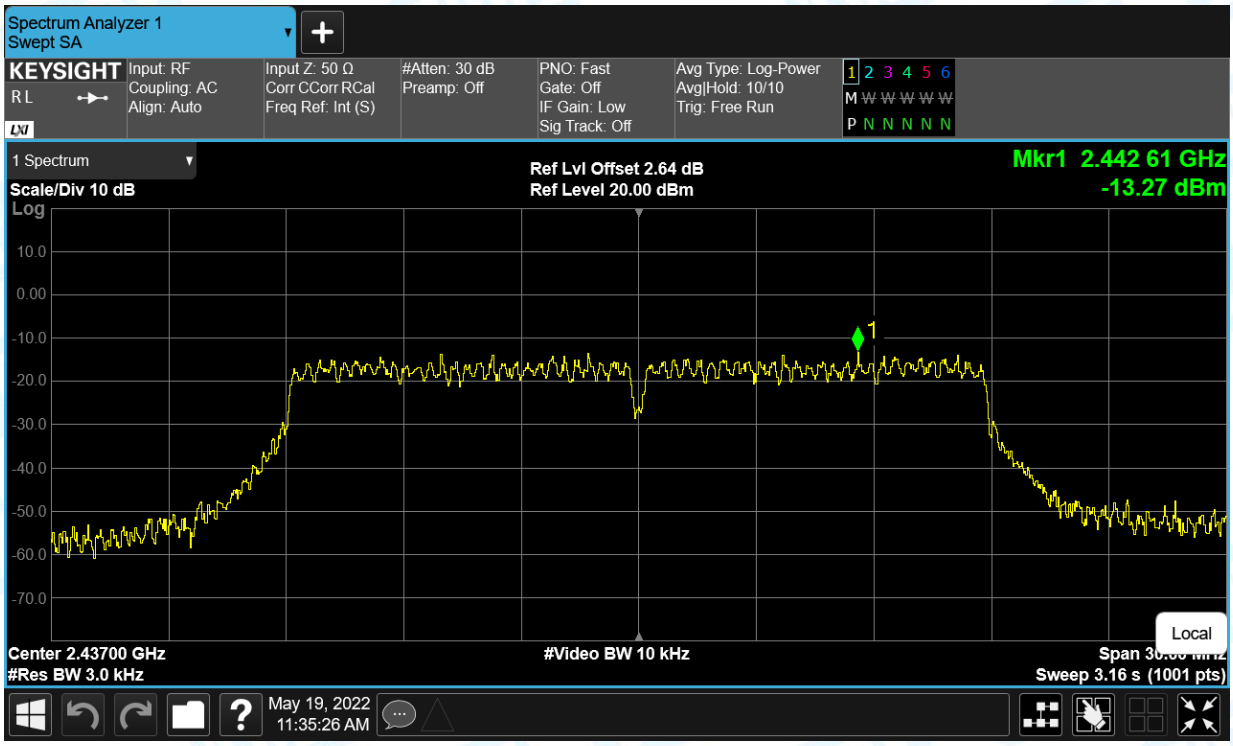
PSD NVNT g 2462MHz Ant1



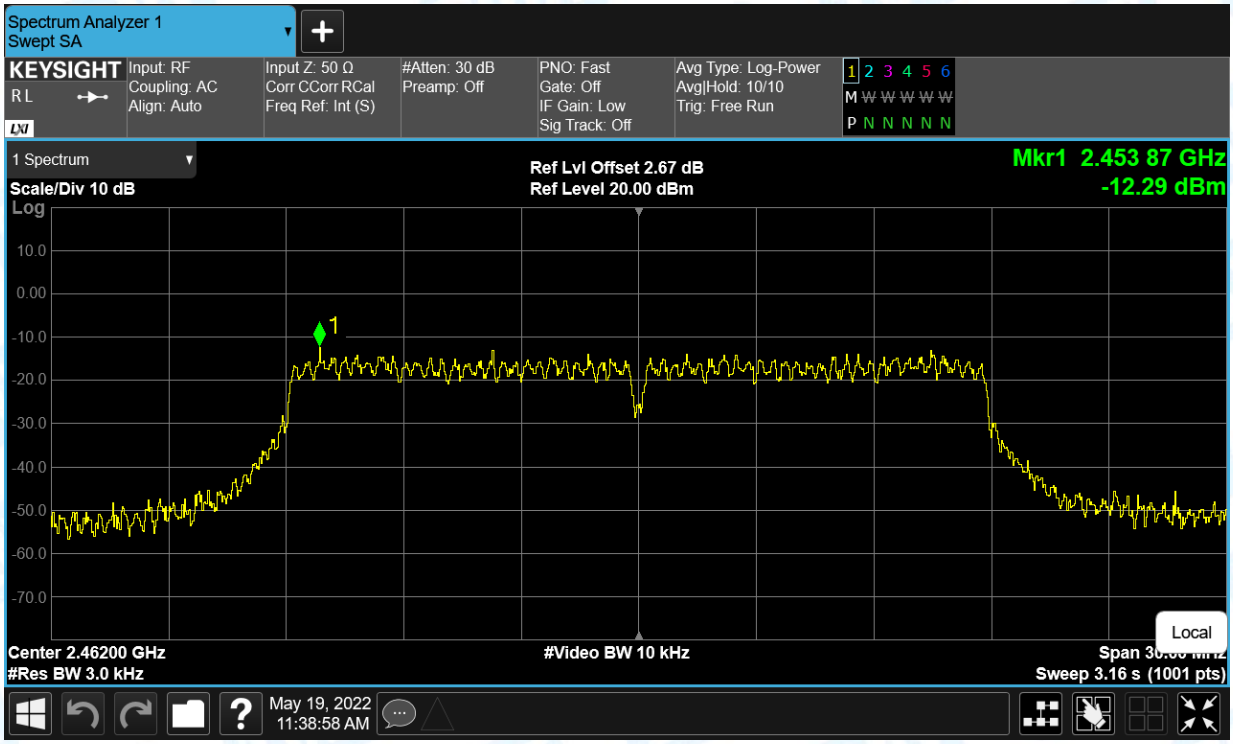
PSD NVNT n(HT20) 2412MHz Ant1



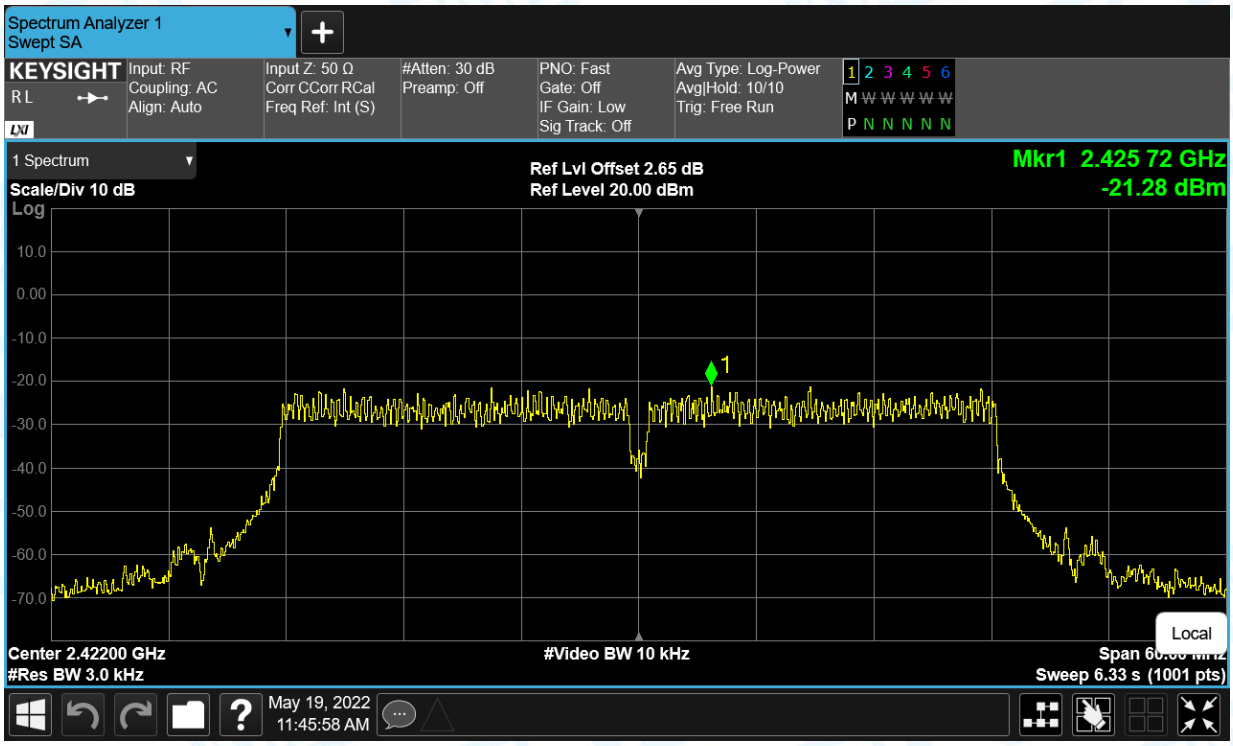
PSD NVNT n(HT20) 2437MHz Ant1



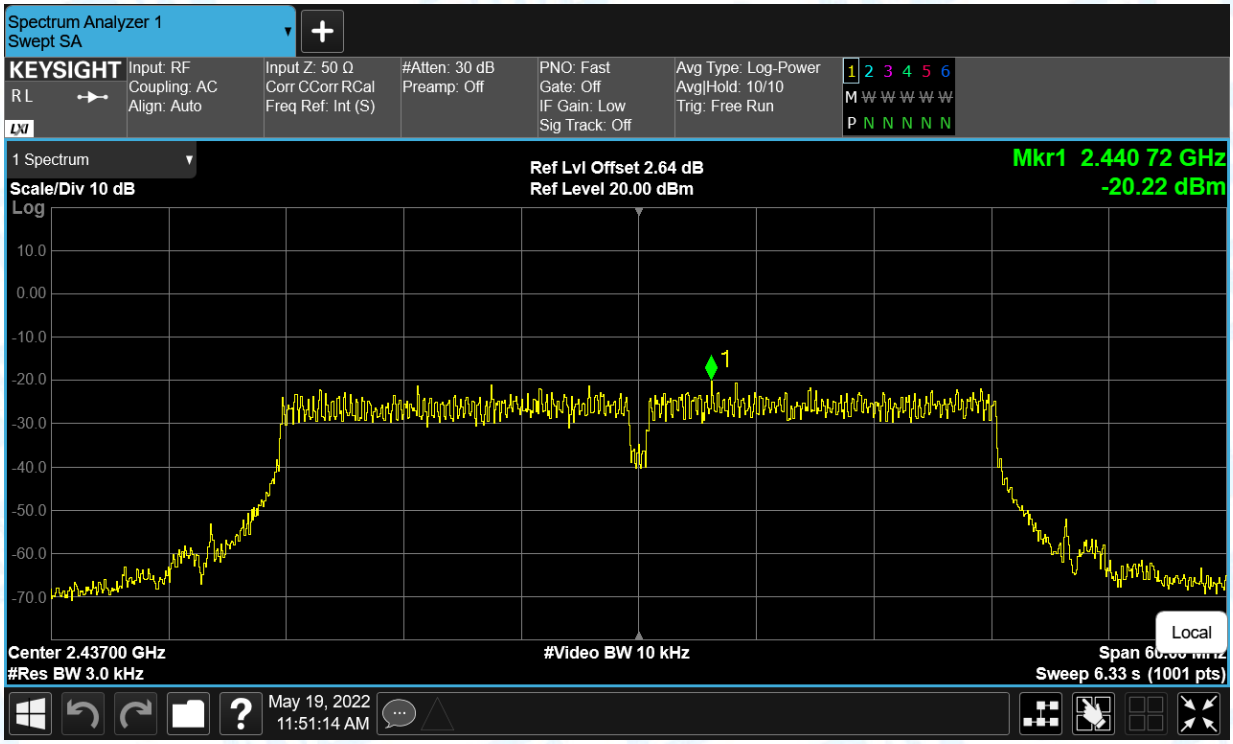
PSD NVNT n(HT20) 2462MHz Ant1



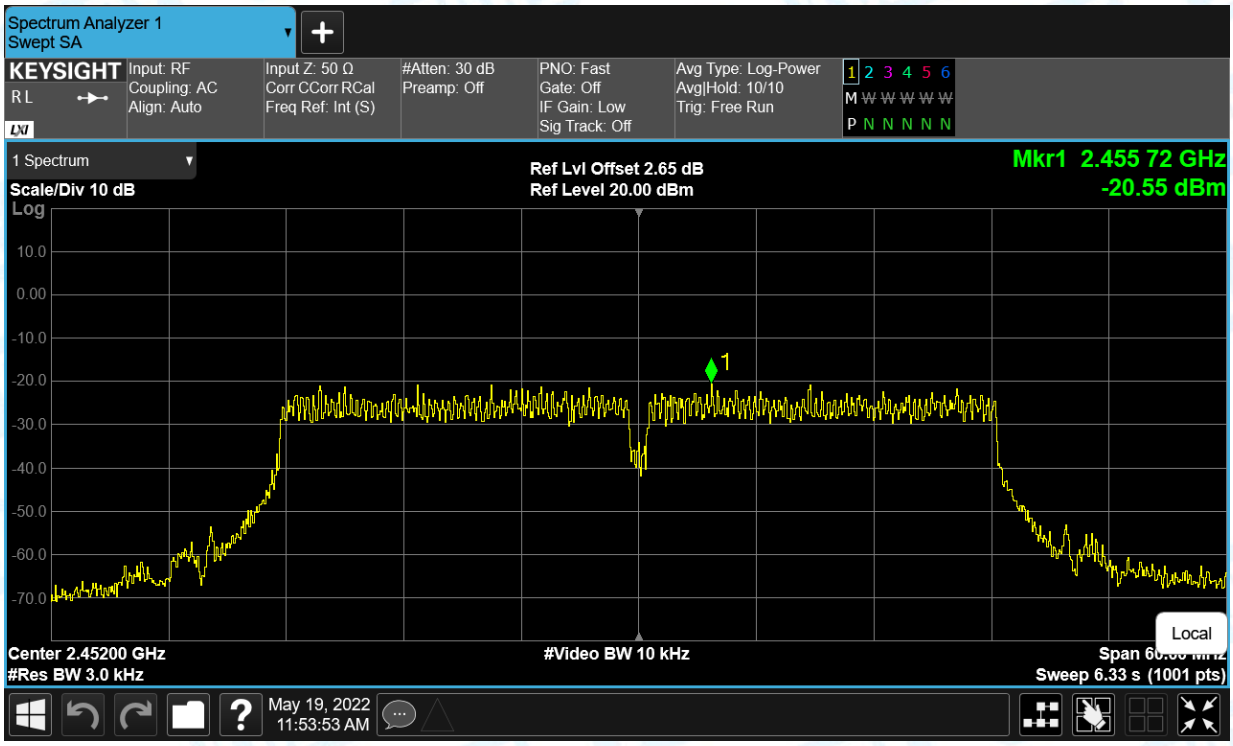
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

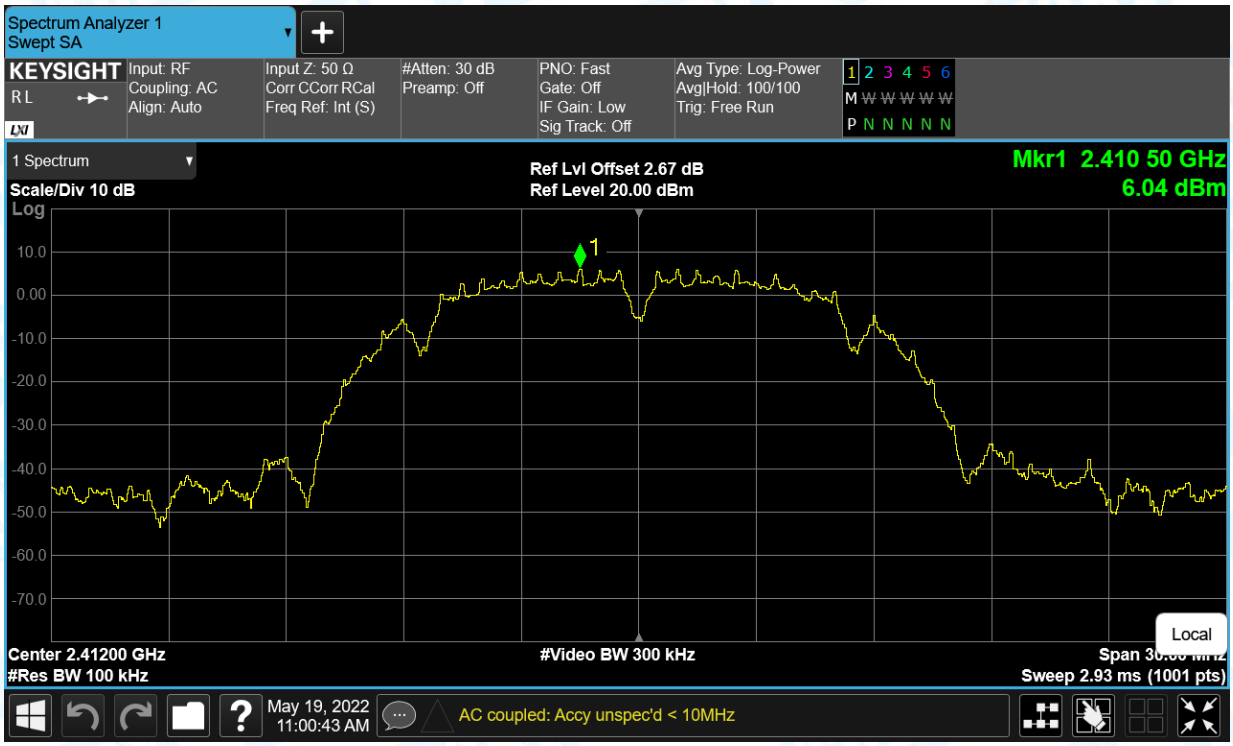


6. Band Edge

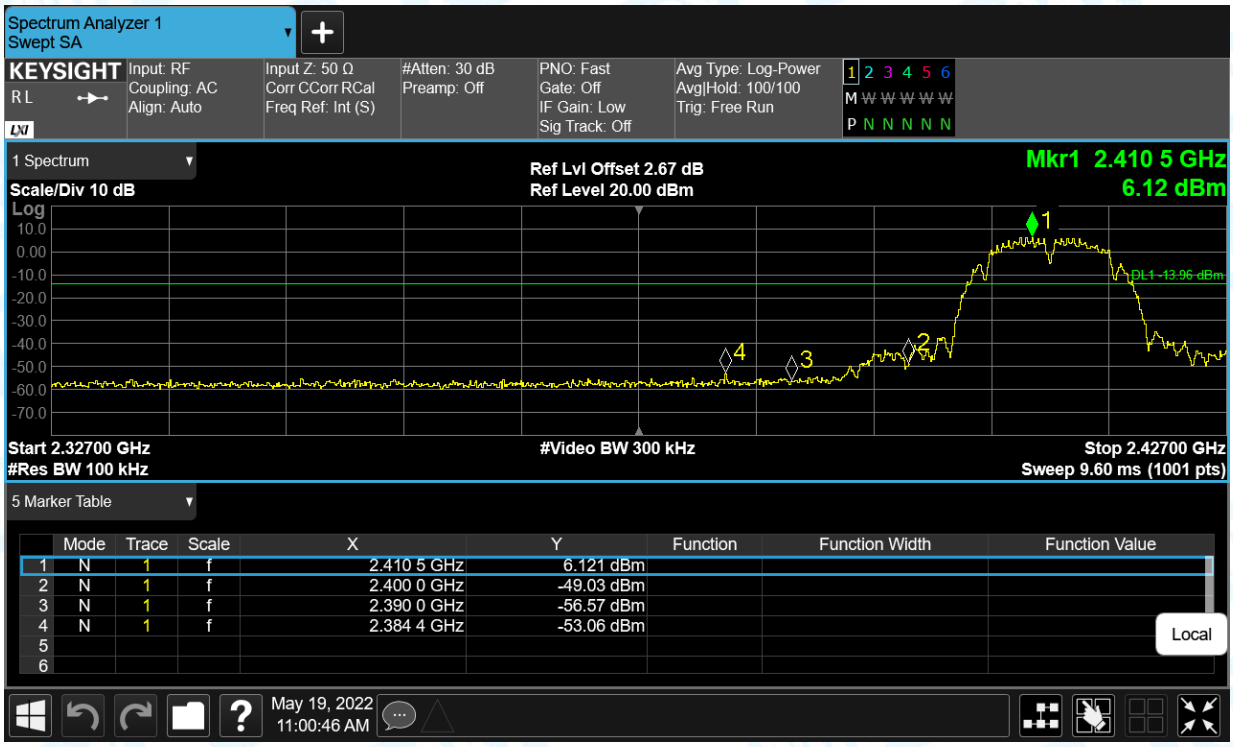
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-59.1	-20	Pass
NVNT	b	2462	Ant1	-61.01	-20	Pass
NVNT	g	2412	Ant1	-48.98	-20	Pass
NVNT	g	2462	Ant1	-34.44	-20	Pass
NVNT	n(HT20)	2412	Ant1	-48.82	-20	Pass
NVNT	n(HT20)	2462	Ant1	-42.44	-20	Pass
NVNT	n(HT40)	2422	Ant1	-44.99	-20	Pass
NVNT	n(HT40)	2452	Ant1	-40.5	-20	Pass

Test Graphs

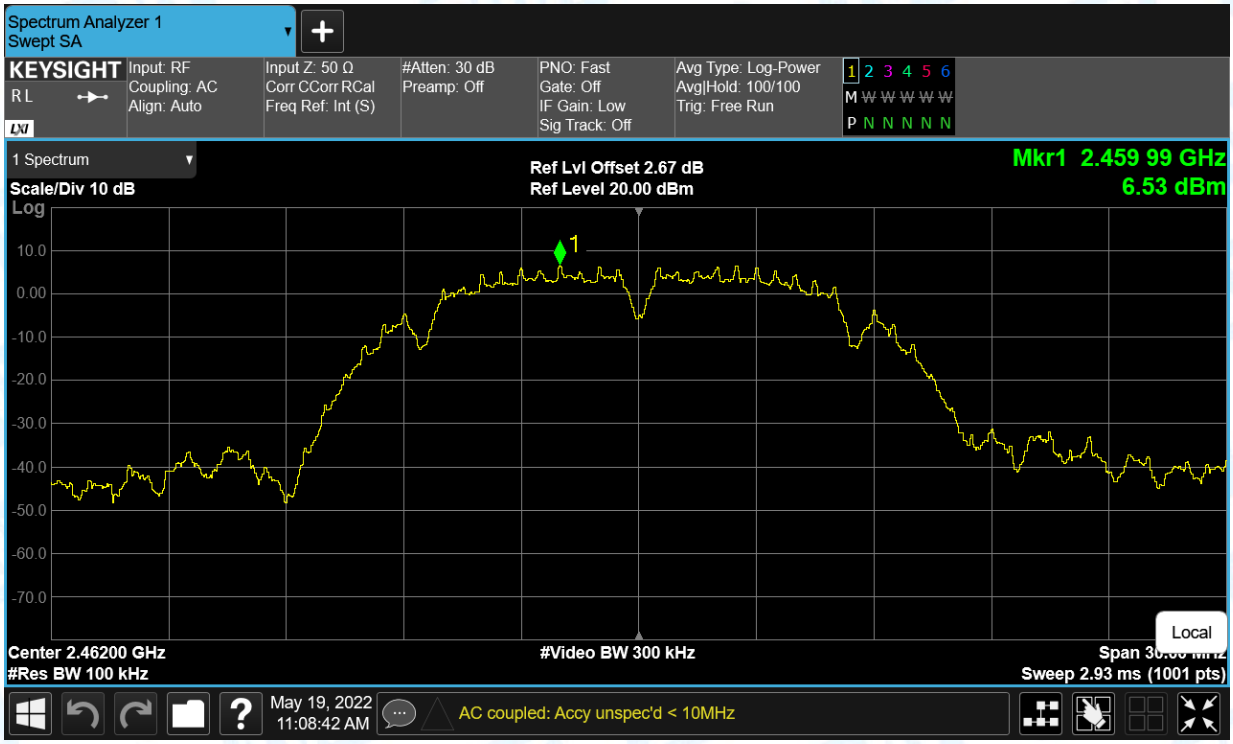
Band Edge NVNT b 2412MHz Ant1 Ref



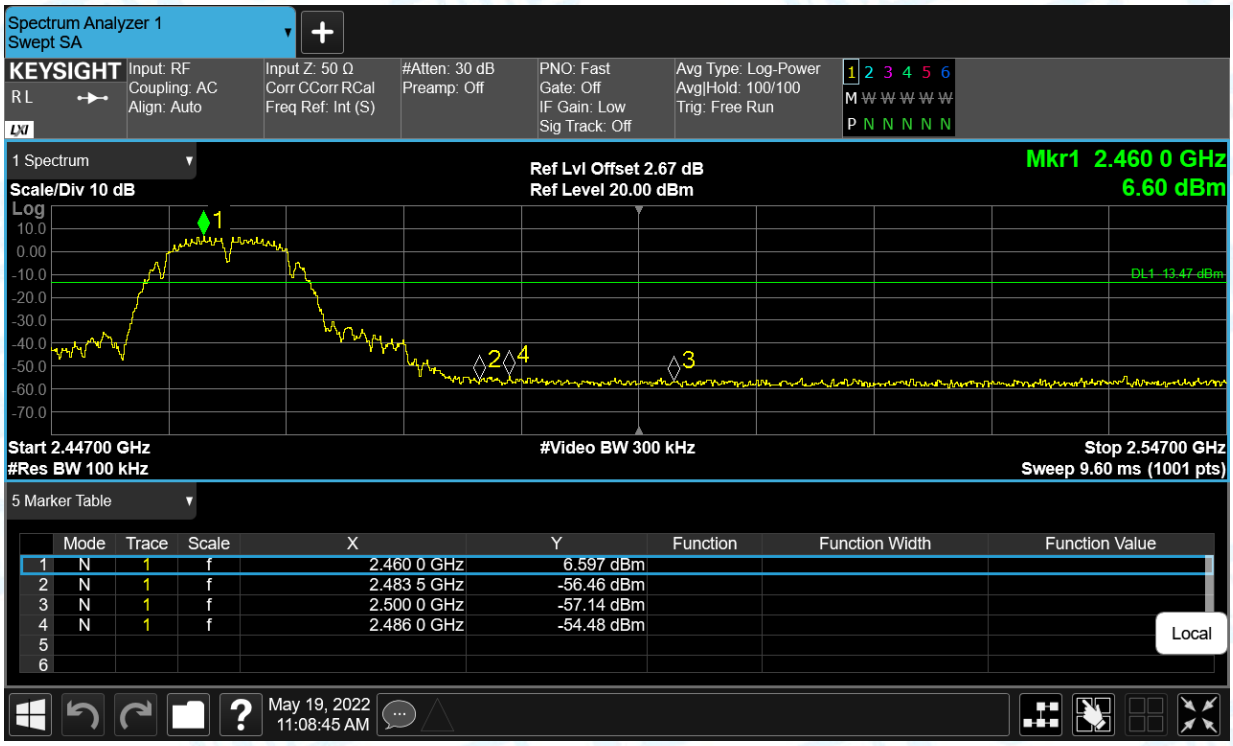
Band Edge NVNT b 2412MHz Ant1 Emission



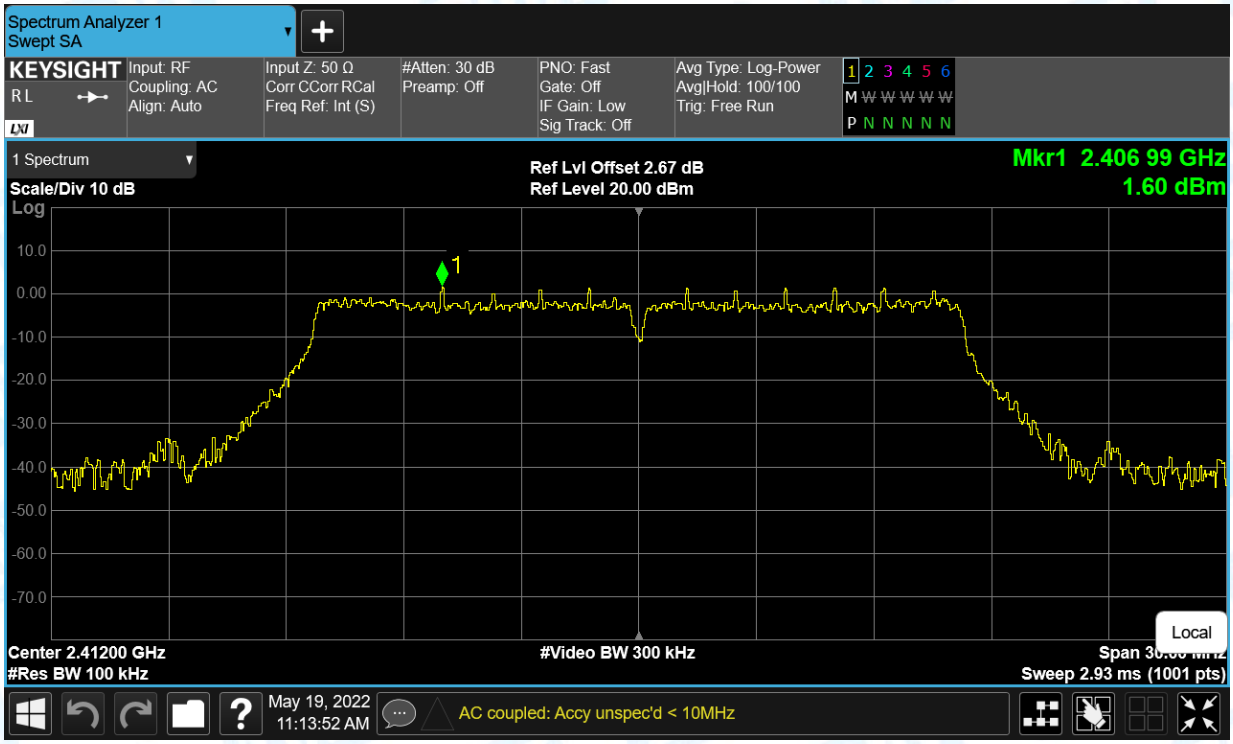
Band Edge NVNT b 2462MHz Ant1 Ref



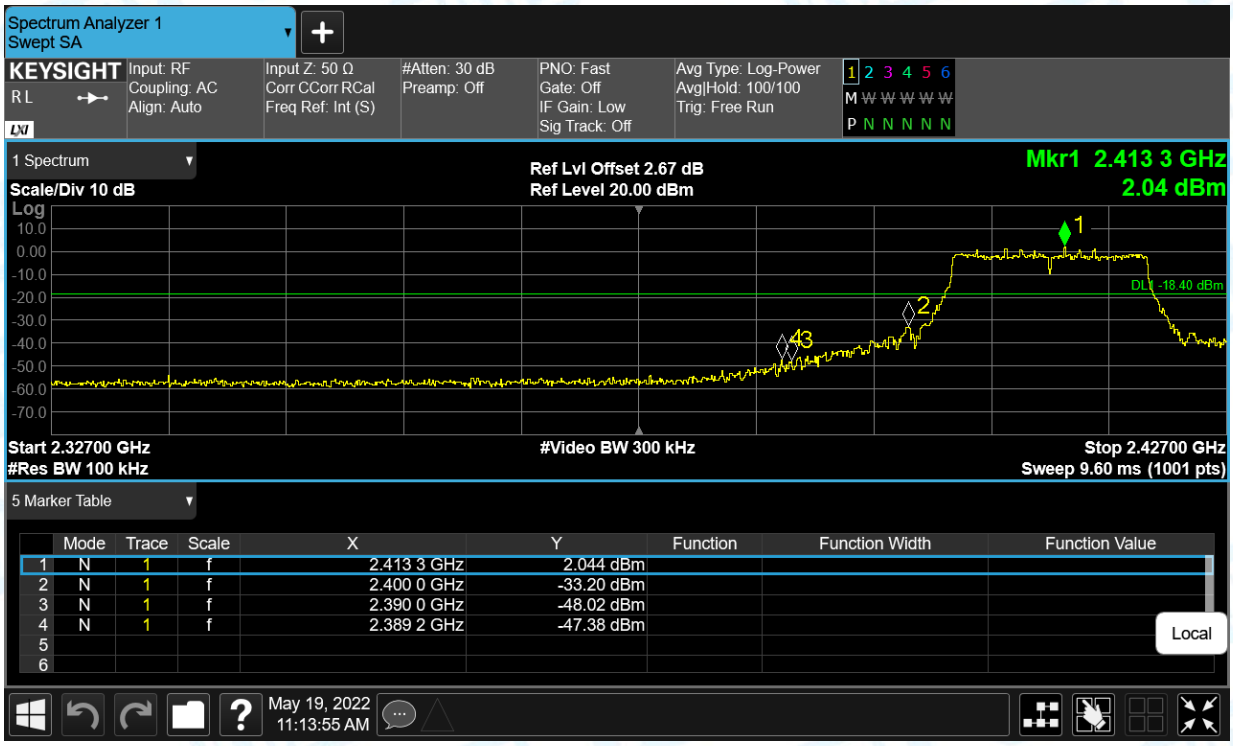
Band Edge NVNT b 2462MHz Ant1 Emission



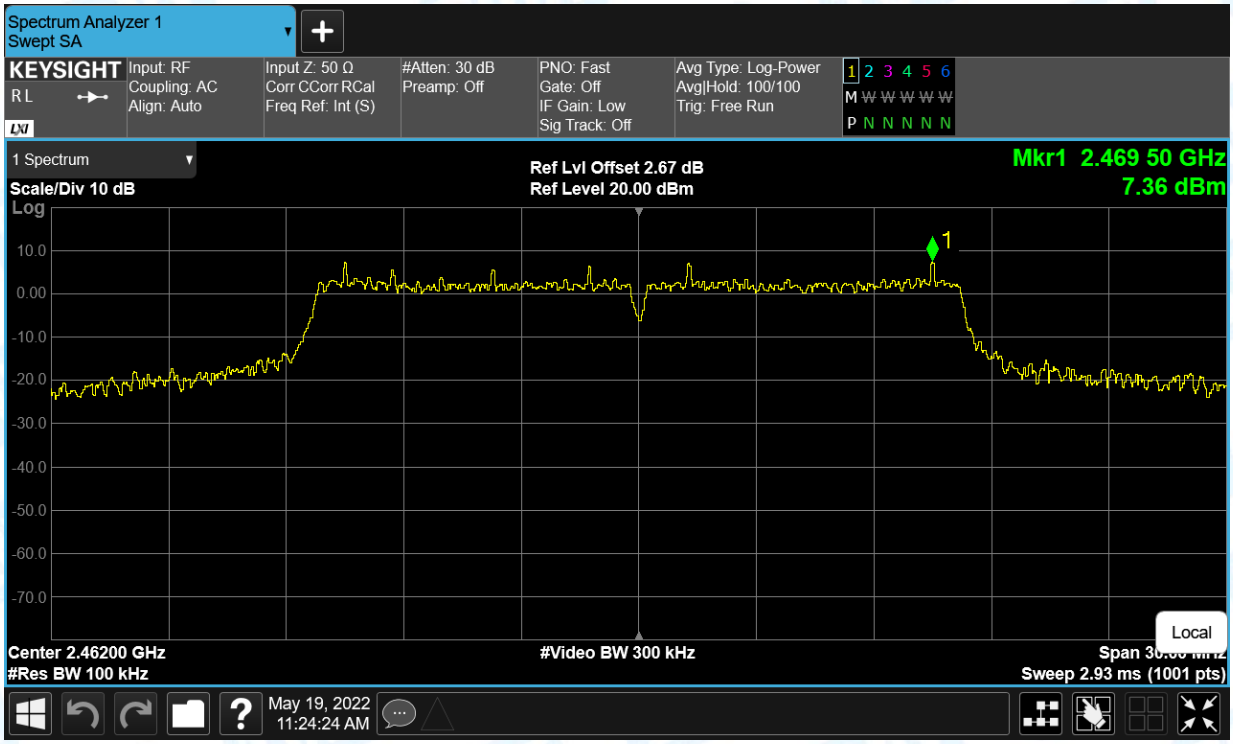
Band Edge NVNT g 2412MHz Ant1 Ref



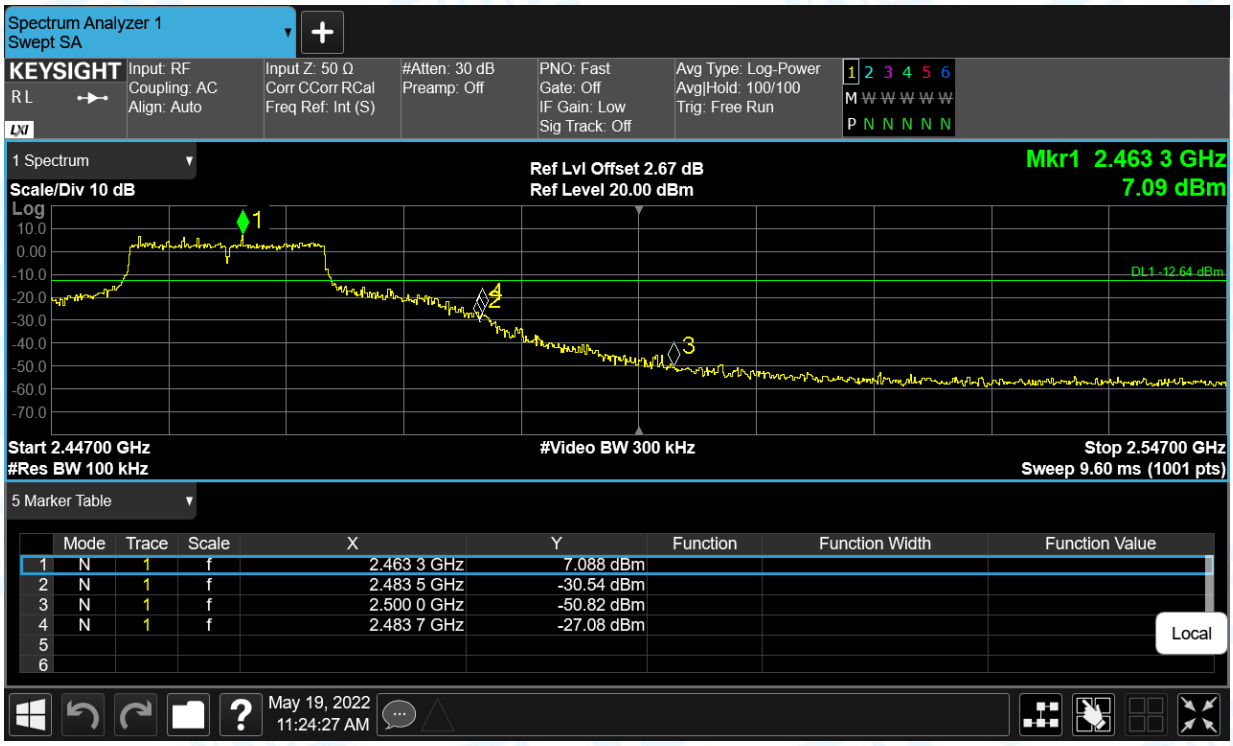
Band Edge NVNT g 2412MHz Ant1 Emission



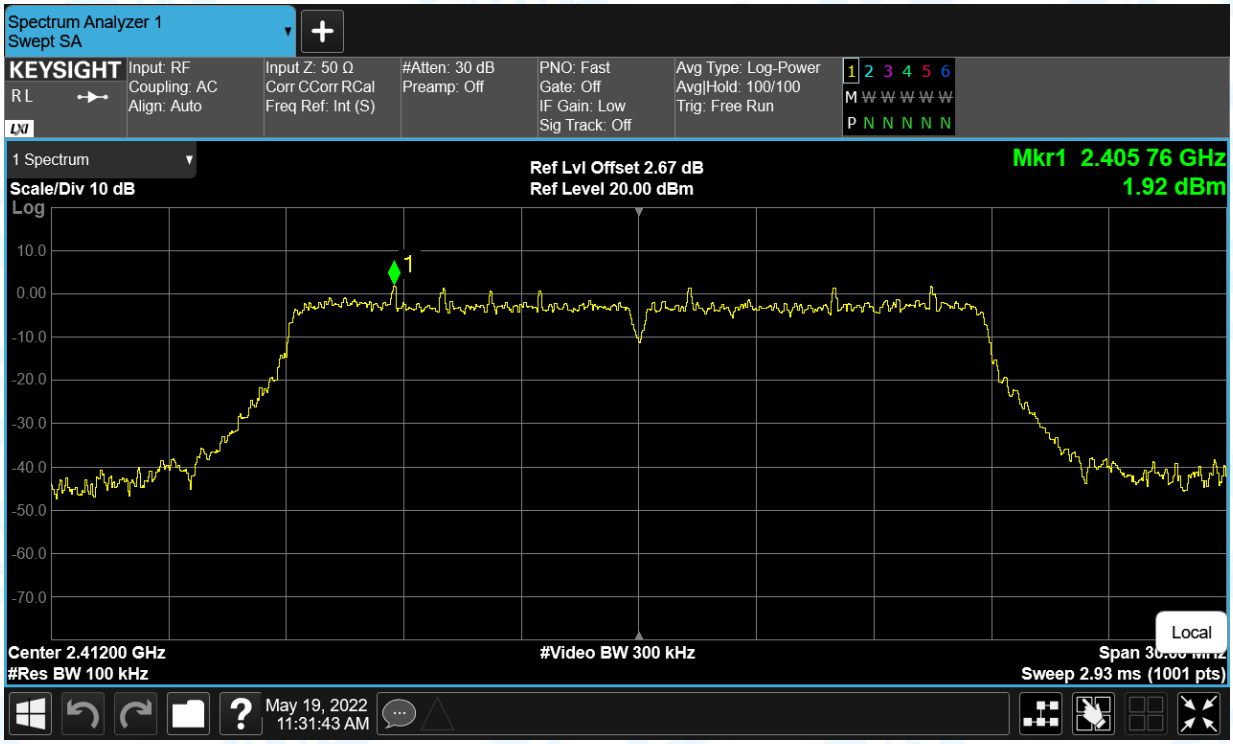
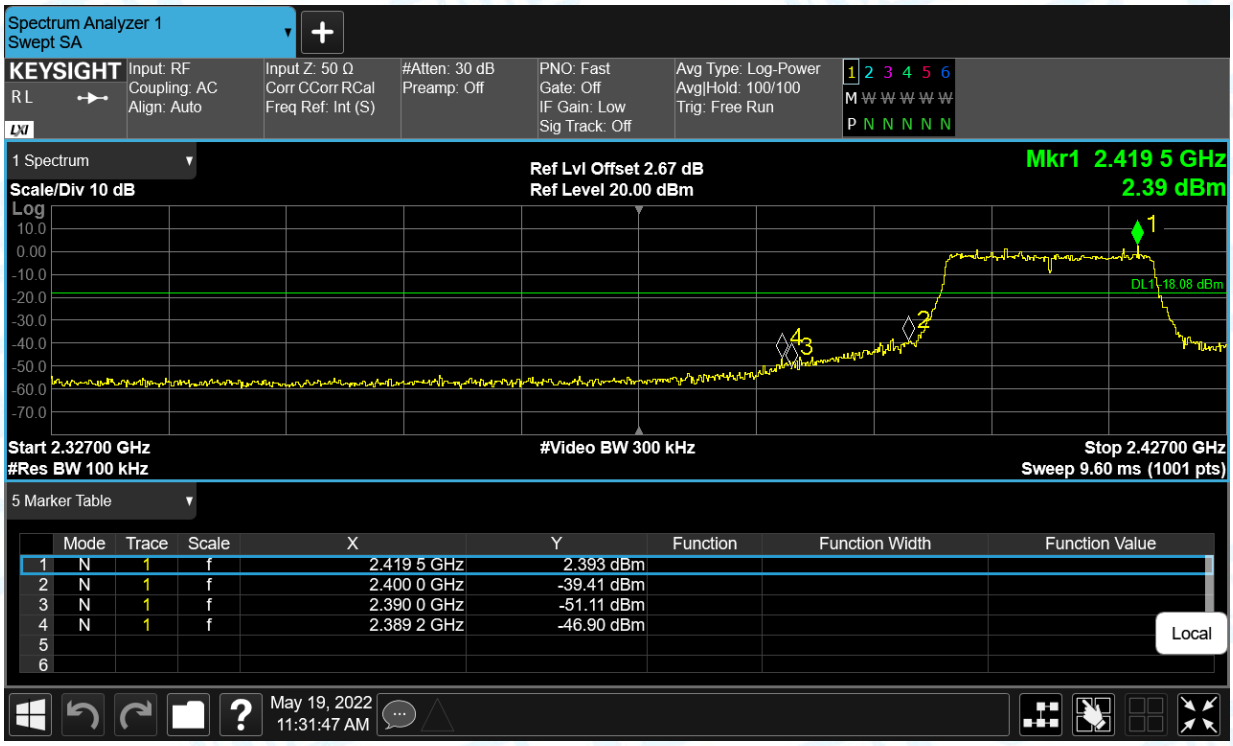
Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



Band Edge NVNT n(HT20) 2412MHz Ant1 Emission