

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Smart Robot Camera
Test Model:	SE
Sample ID:	202208-0142-2-2#
Environmental Conditions	
Temperature:	25℃
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-202208-0142-5 The report only show the worst case data.	

Contents

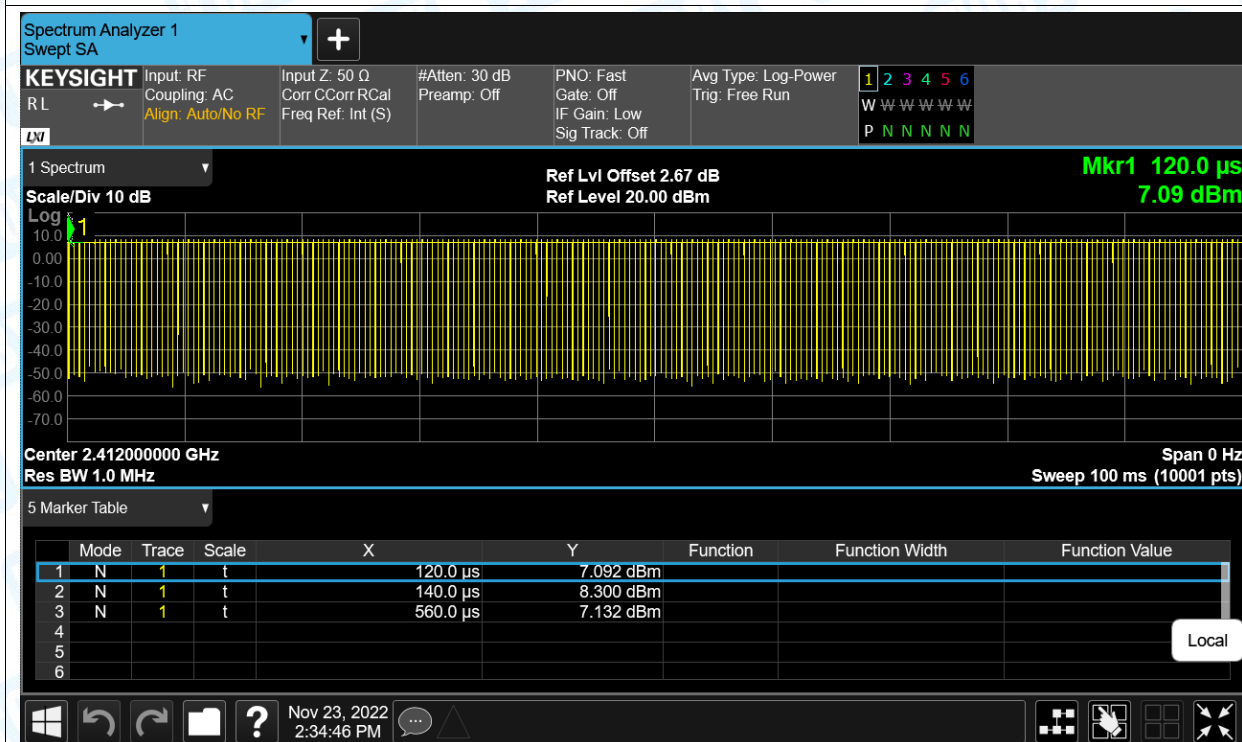
1. Duty Cycle.....	3
2. Maximum Conducted Output Power	10
3. -6dB Bandwidth	11
4. Occupied Channel Bandwidth	18
5. Maximum Power Spectral Density Level.....	25
6. Band Edge	32
7. Conducted RF Spurious Emission	41
8. Restrict Band	54

1. Duty Cycle

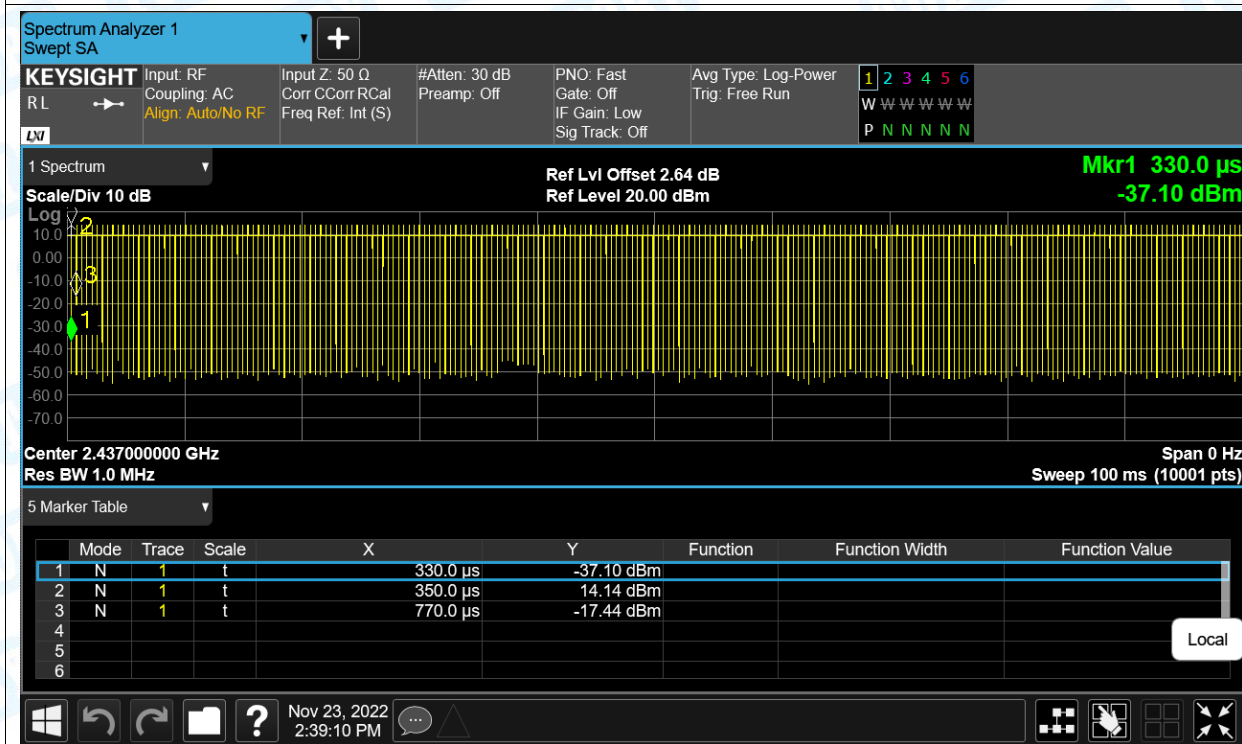
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	95.45	0.2	2.38
NVNT	b	2437	Ant1	95.45	0.2	2.38
NVNT	b	2462	Ant1	95.45	0.2	2.38
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n(HT20)	2412	Ant1	100	0	0
NVNT	n(HT20)	2437	Ant1	100	0	0
NVNT	n(HT20)	2462	Ant1	100	0	0
NVNT	n(HT40)	2422	Ant1	100	0	0
NVNT	n(HT40)	2437	Ant1	100	0	0
NVNT	n(HT40)	2452	Ant1	100	0	0

Test Graphs

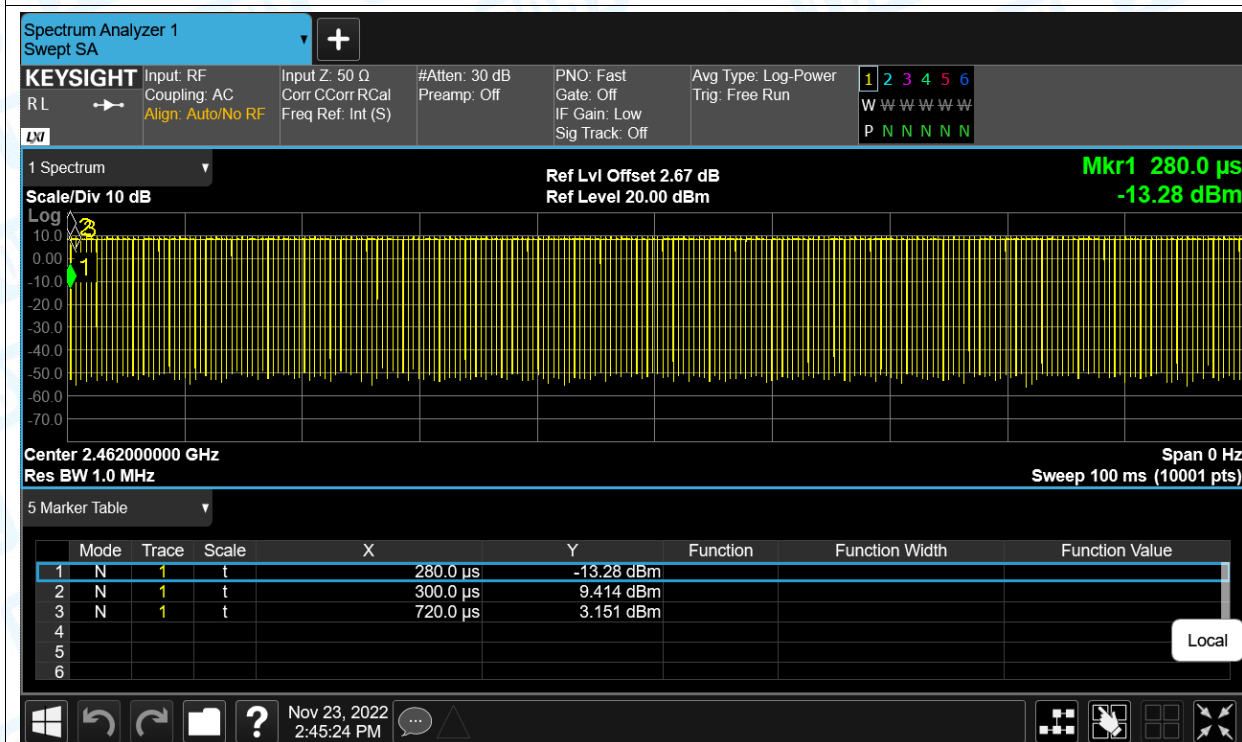
Duty Cycle NVNT b 2412MHz Ant1



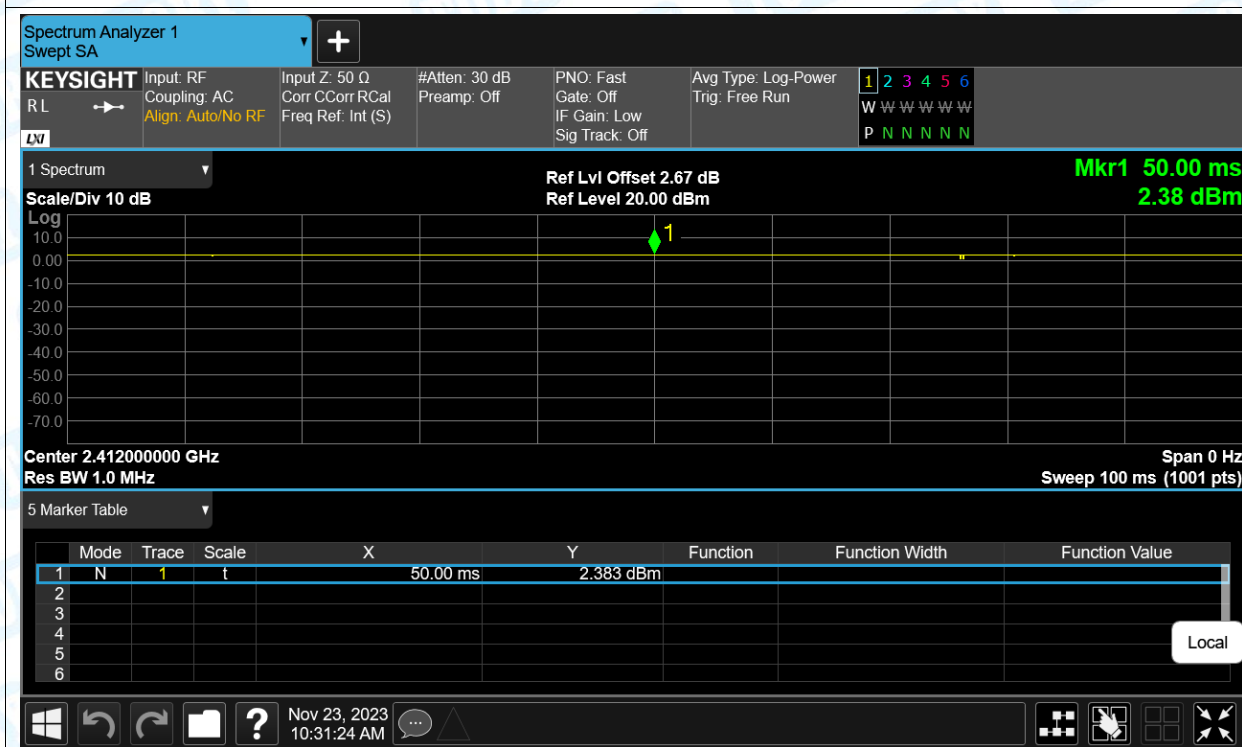
Duty Cycle NVNT b 2437MHz Ant1



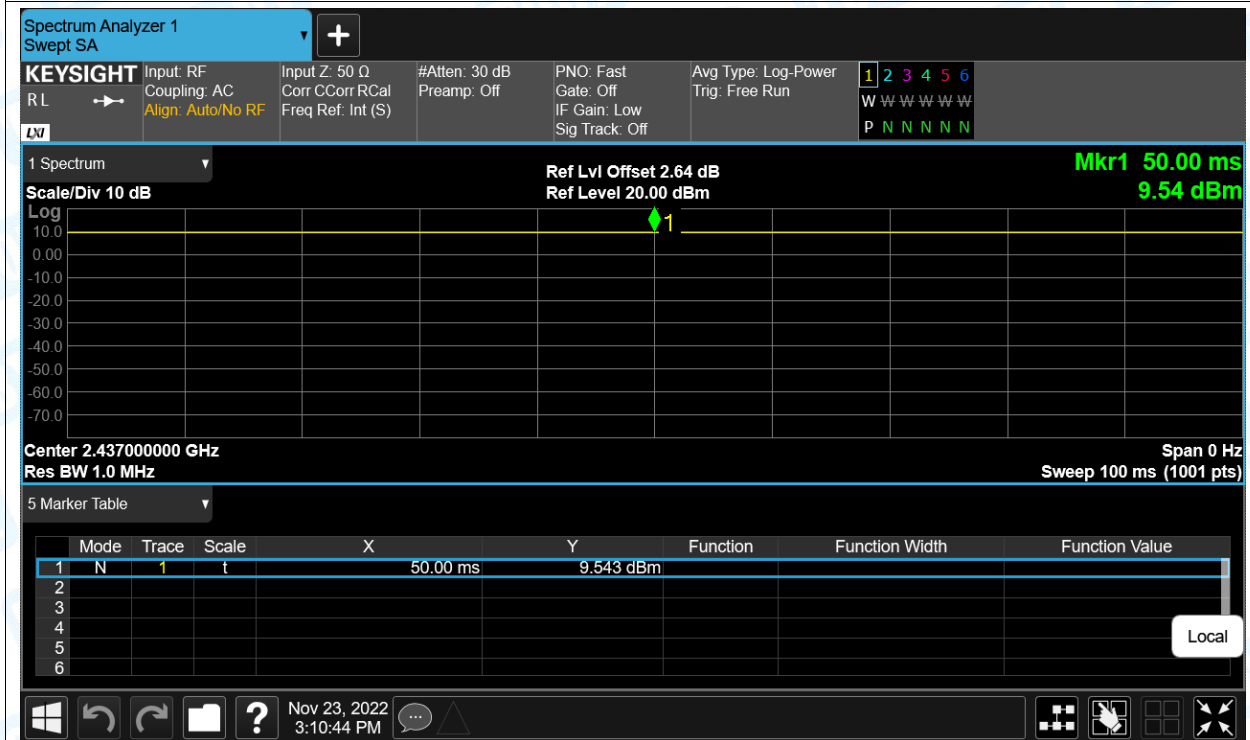
Duty Cycle NVNT b 2462MHz Ant1



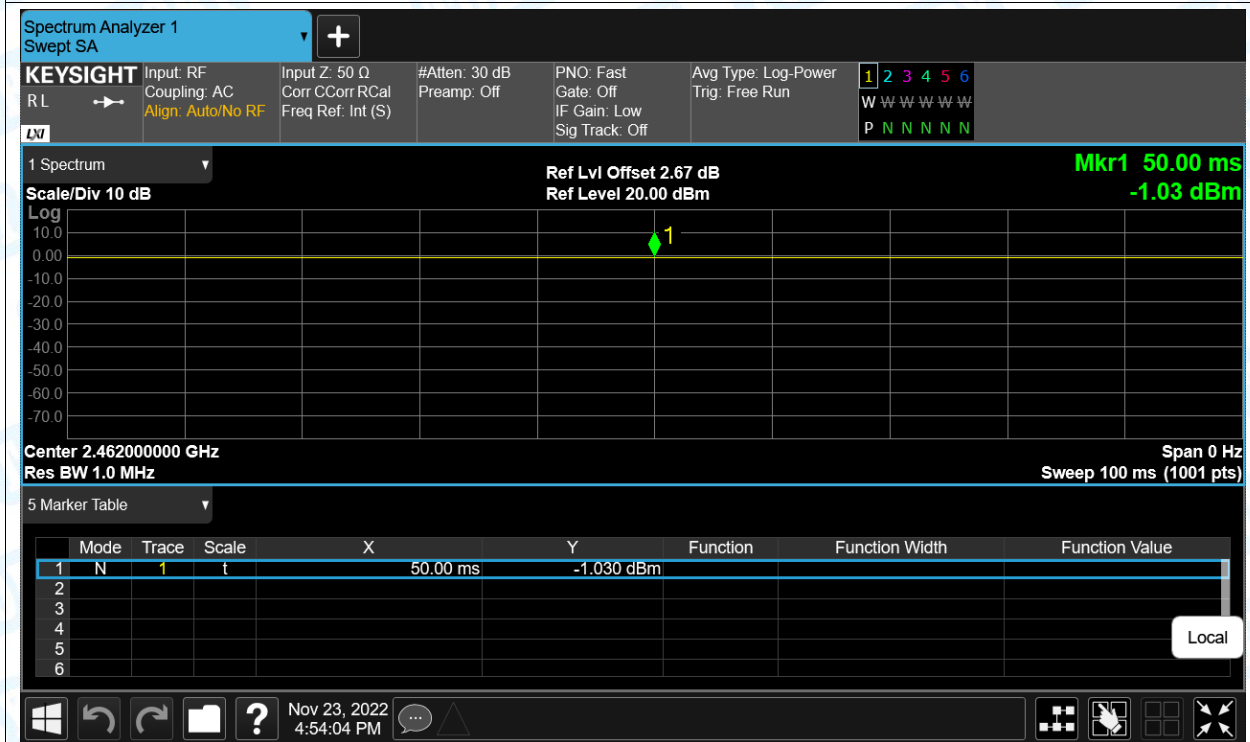
Duty Cycle NVNT g 2412MHz Ant1



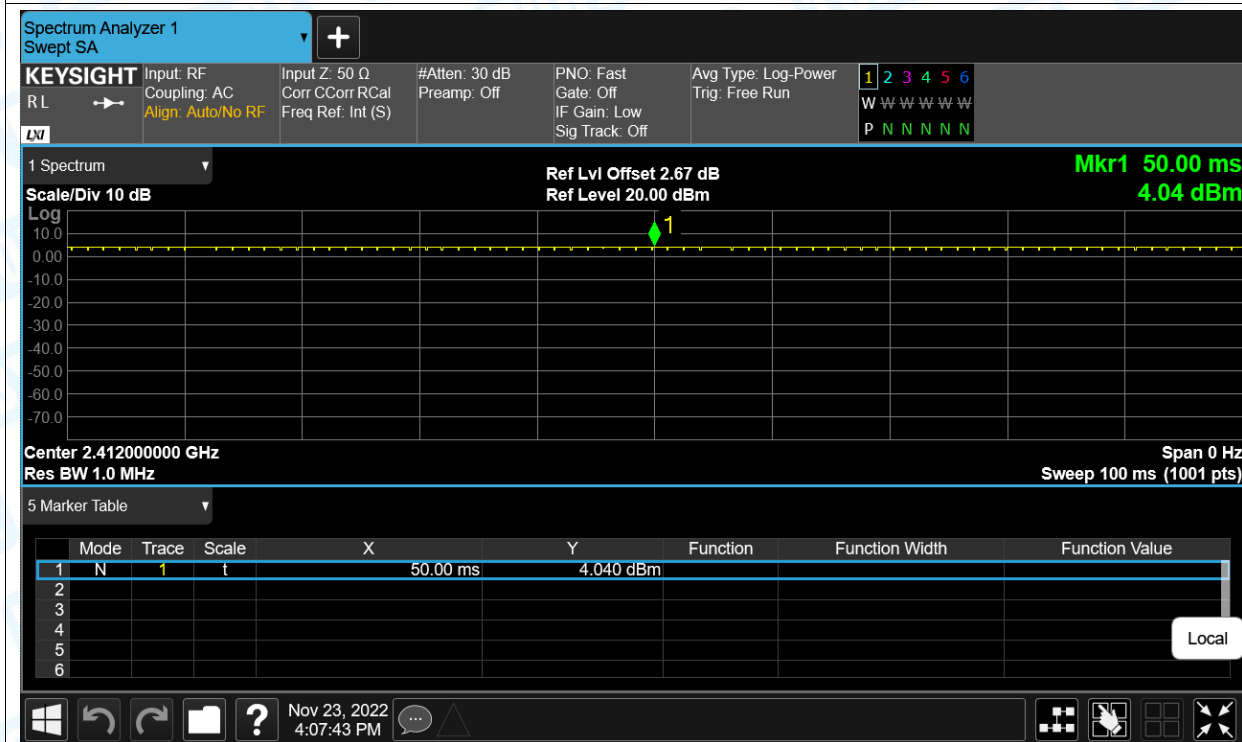
Duty Cycle NVNT g 2437MHz Ant1



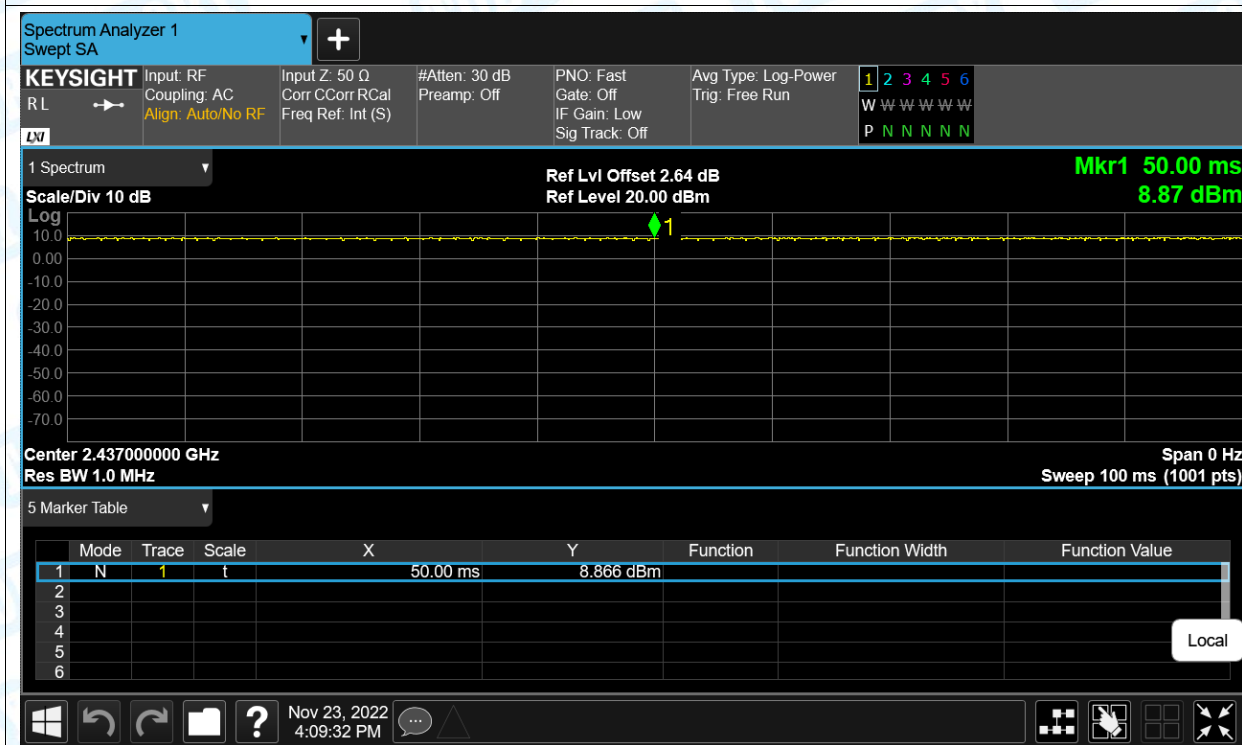
Duty Cycle NVNT g 2462MHz Ant1



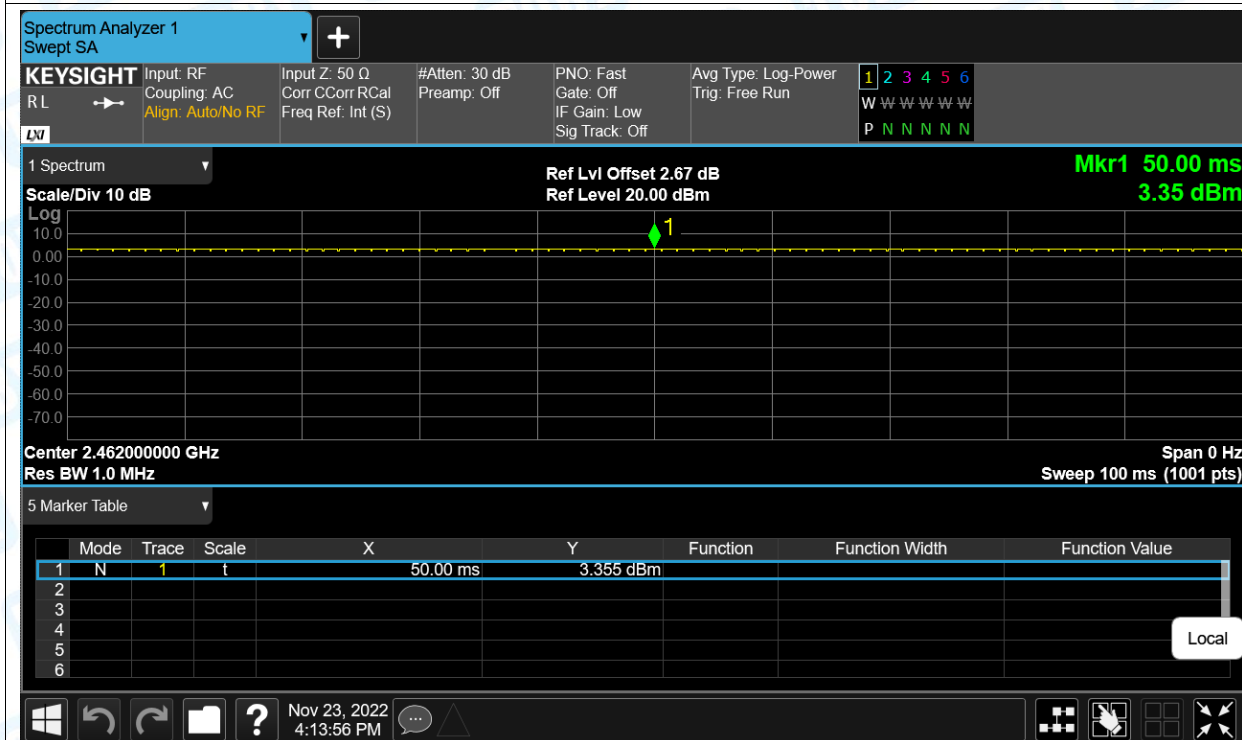
Duty Cycle NVNT n(HT20) 2412MHz Ant1



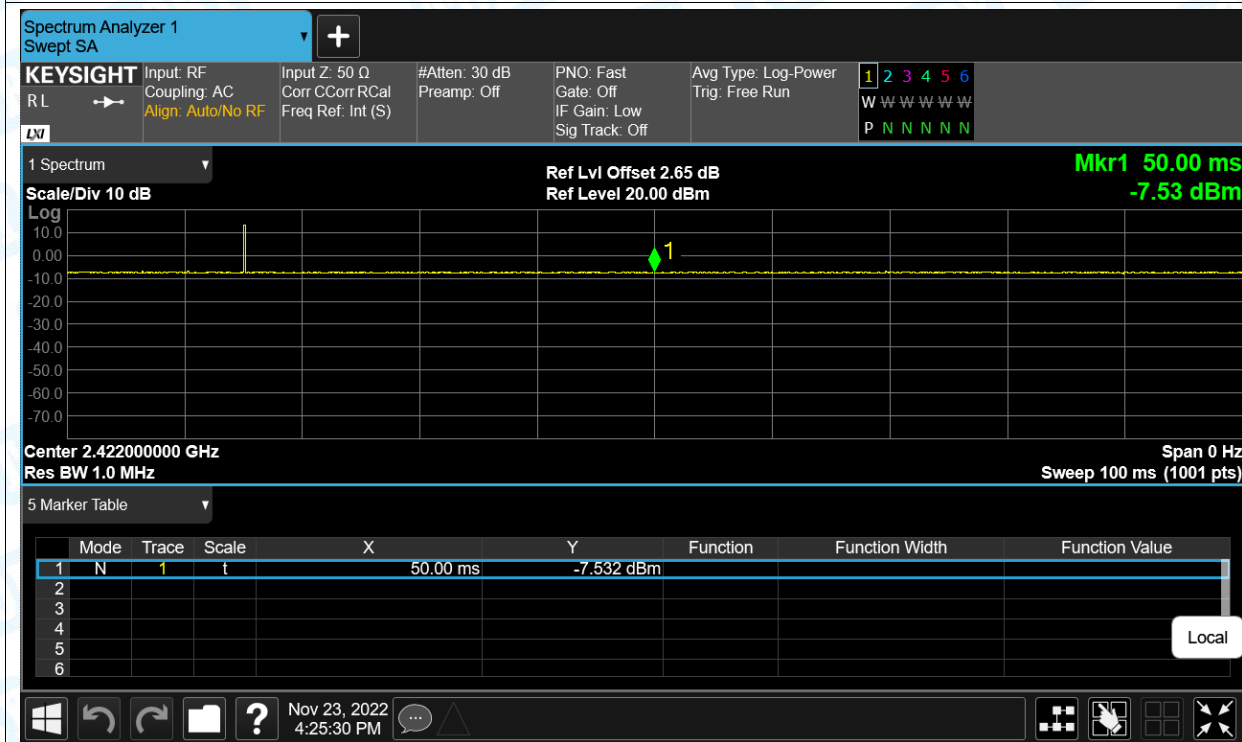
Duty Cycle NVNT n(HT20) 2437MHz Ant1



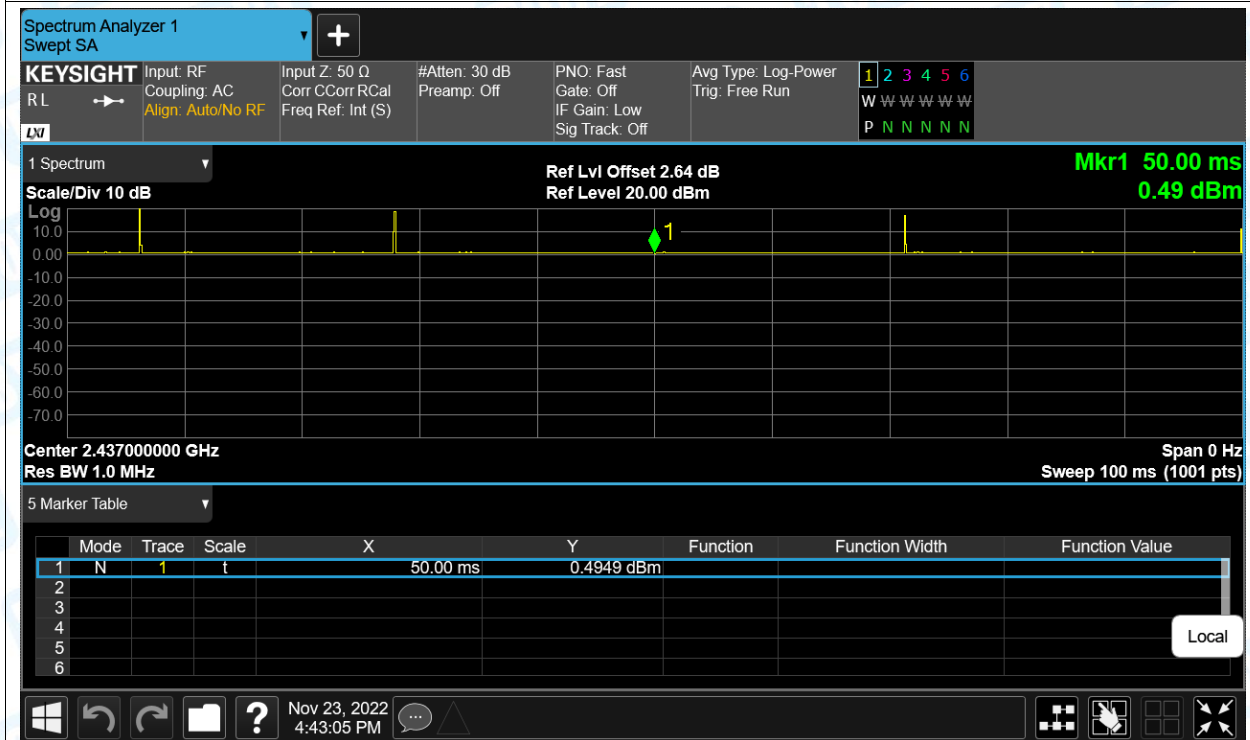
Duty Cycle NVNT n(HT20) 2462MHz Ant1



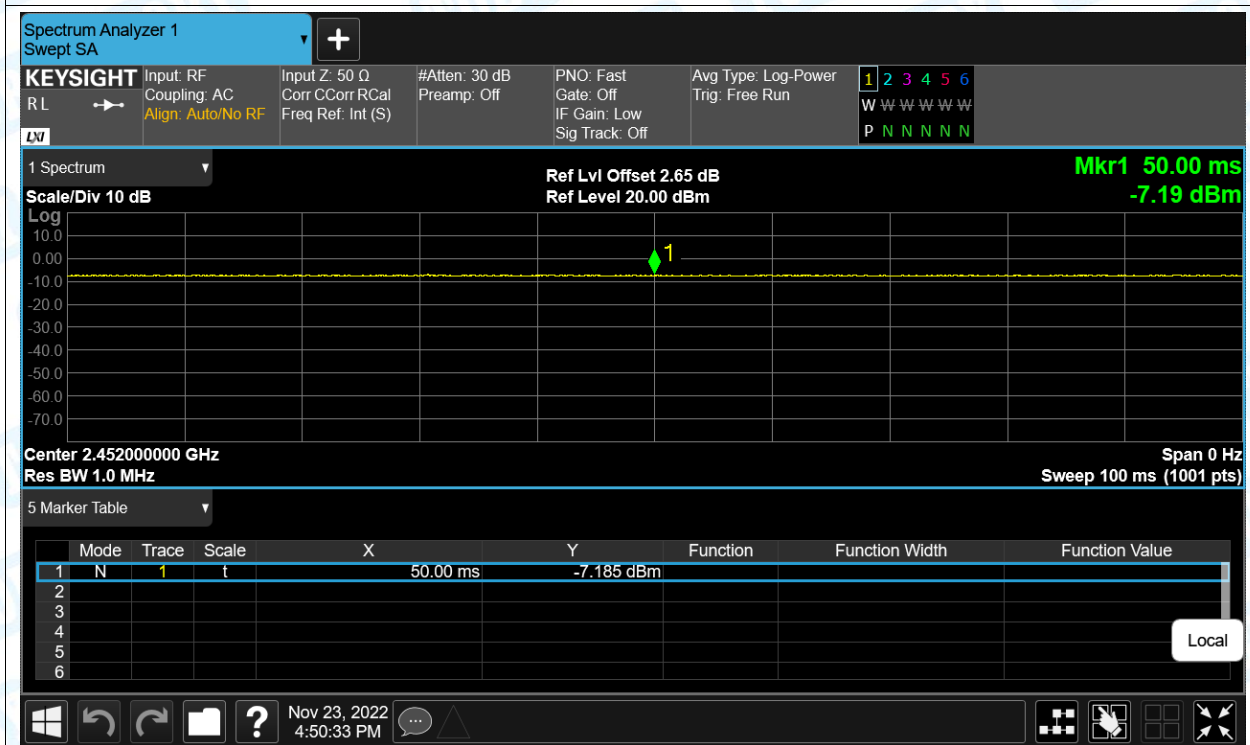
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2. Maximum Conducted Output Power

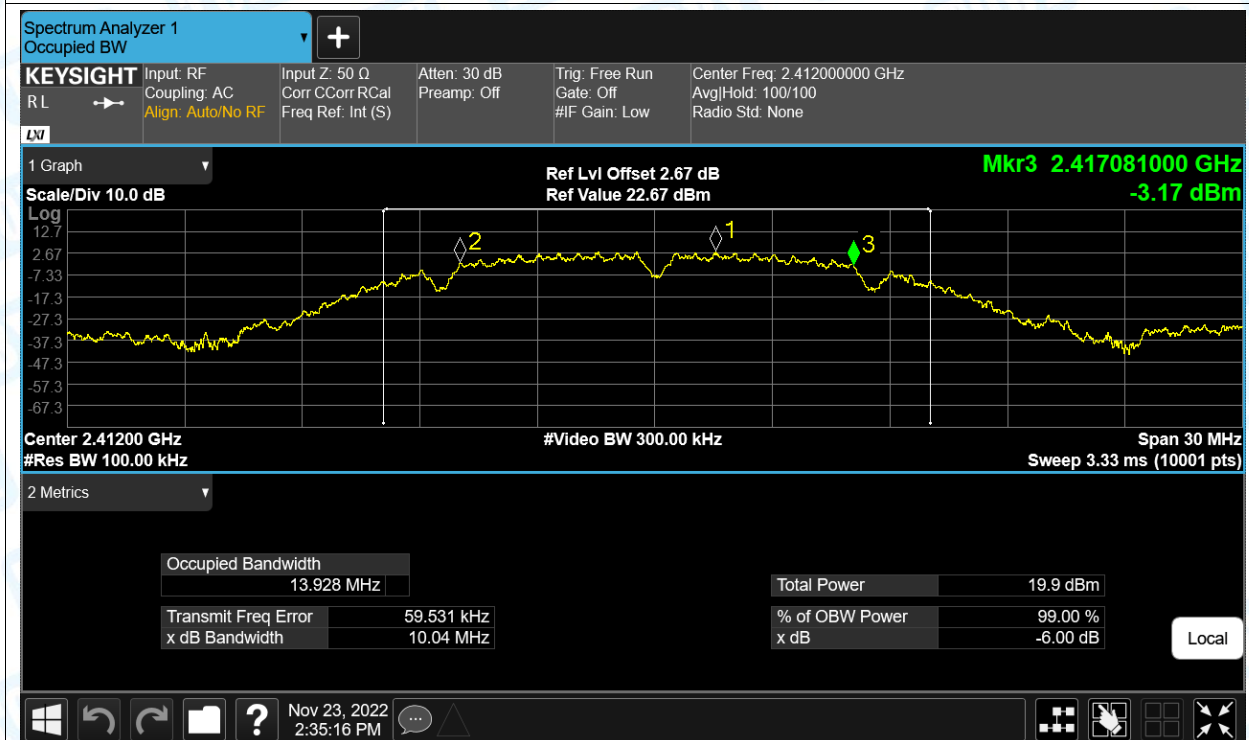
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	13.426	30	Pass
NVNT	b	2437	Ant1	16.682	30	Pass
NVNT	b	2462	Ant1	14.729	30	Pass
NVNT	g	2412	Ant1	6.654	30	Pass
NVNT	g	2437	Ant1	13.478	30	Pass
NVNT	g	2462	Ant1	7.628	30	Pass
NVNT	n(HT20)	2412	Ant1	8.082	30	Pass
NVNT	n(HT20)	2437	Ant1	13.325	30	Pass
NVNT	n(HT20)	2462	Ant1	7.539	30	Pass
NVNT	n(HT40)	2422	Ant1	5.871	30	Pass
NVNT	n(HT40)	2437	Ant1	13.45	30	Pass
NVNT	n(HT40)	2452	Ant1	5.667	30	Pass

3. -6dB Bandwidth

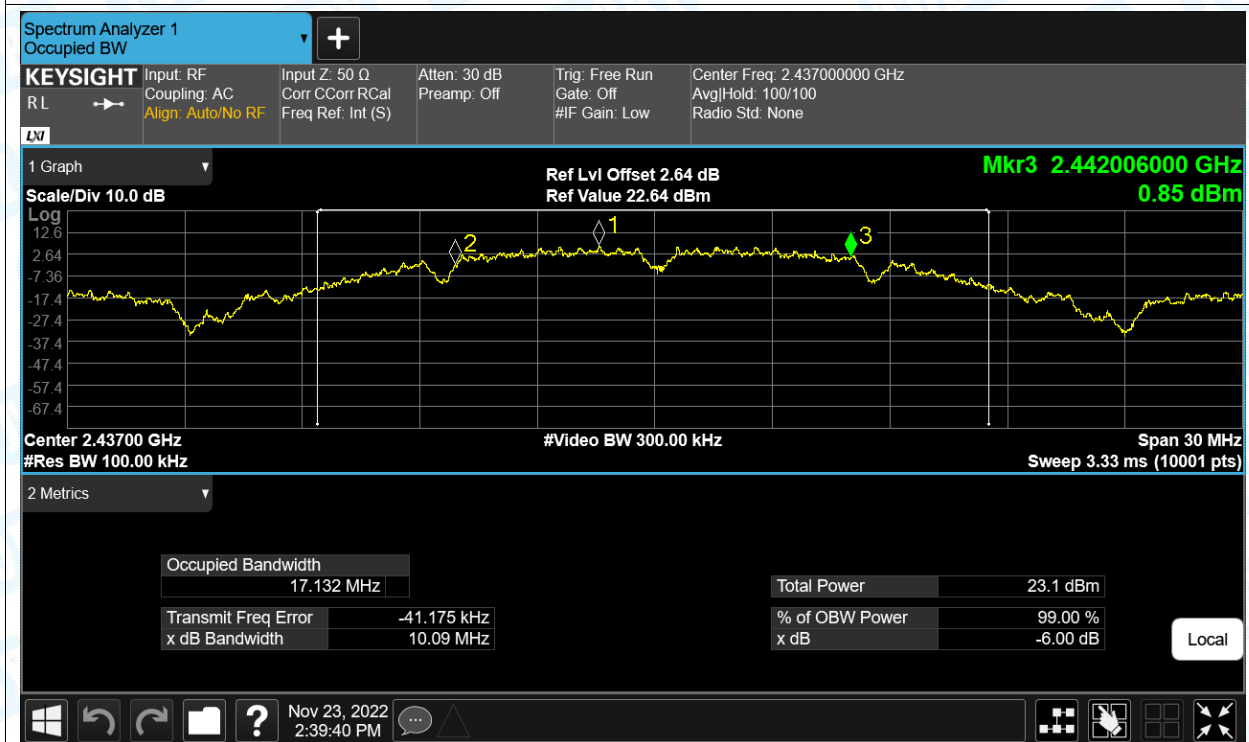
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.04	0.5	Pass
NVNT	b	2437	Ant1	10.09	0.5	Pass
NVNT	b	2462	Ant1	10.07	0.5	Pass
NVNT	g	2412	Ant1	16.09	0.5	Pass
NVNT	g	2437	Ant1	15.72	0.5	Pass
NVNT	g	2462	Ant1	16.09	0.5	Pass
NVNT	n(HT20)	2412	Ant1	16.27	0.5	Pass
NVNT	n(HT20)	2437	Ant1	15.74	0.5	Pass
NVNT	n(HT20)	2462	Ant1	16.27	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.17	0.5	Pass
NVNT	n(HT40)	2437	Ant1	35.14	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.17	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



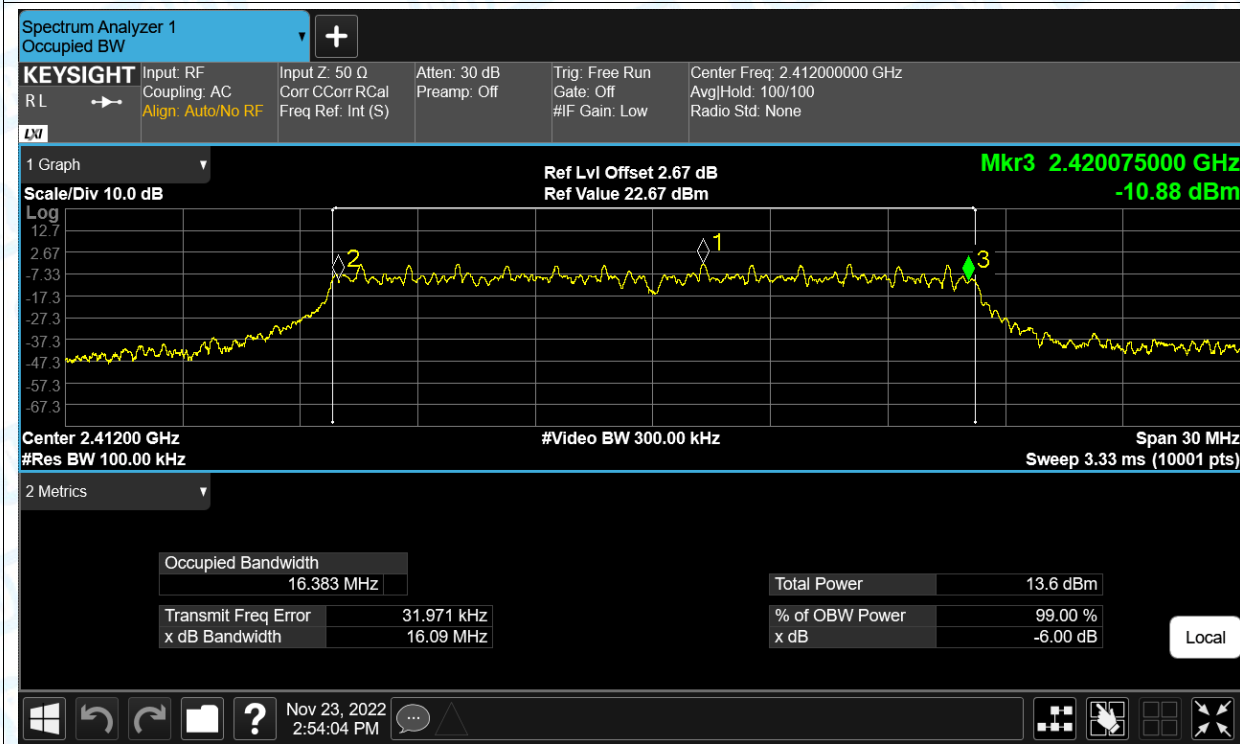
-6dB Bandwidth NVNT b 2437MHz Ant1



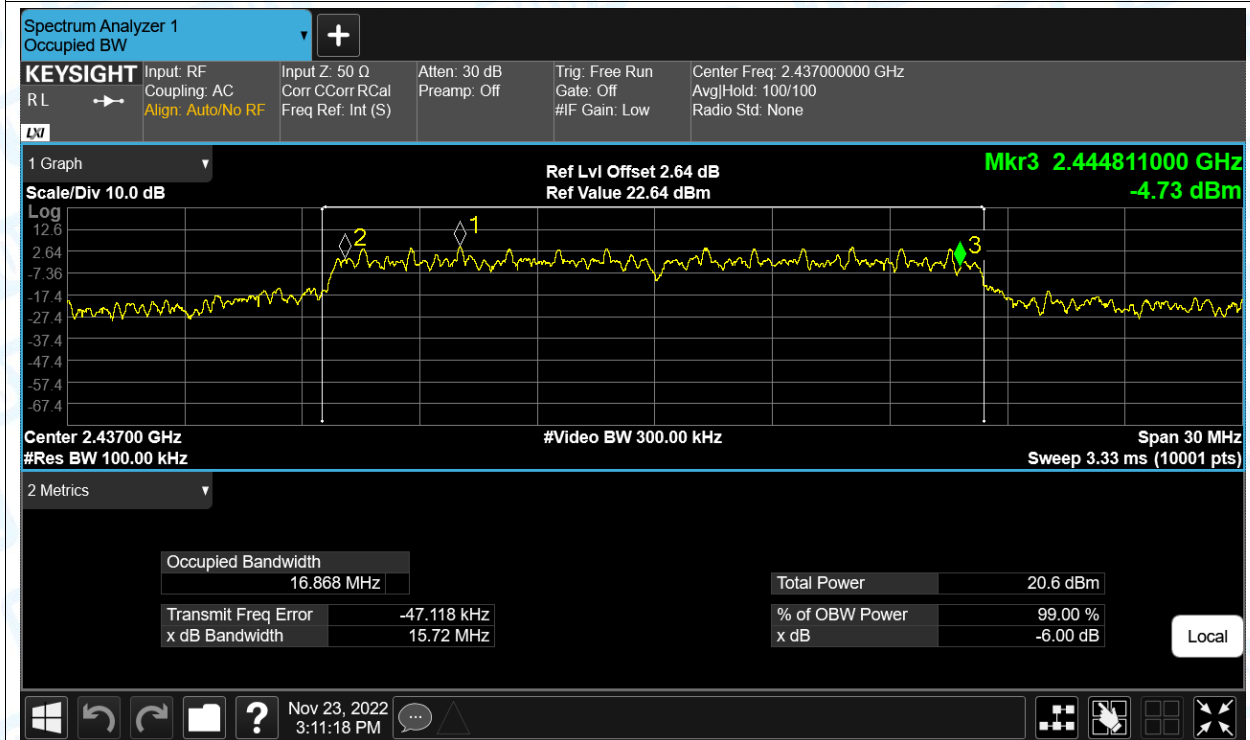
-6dB Bandwidth NVNT b 2462MHz Ant1



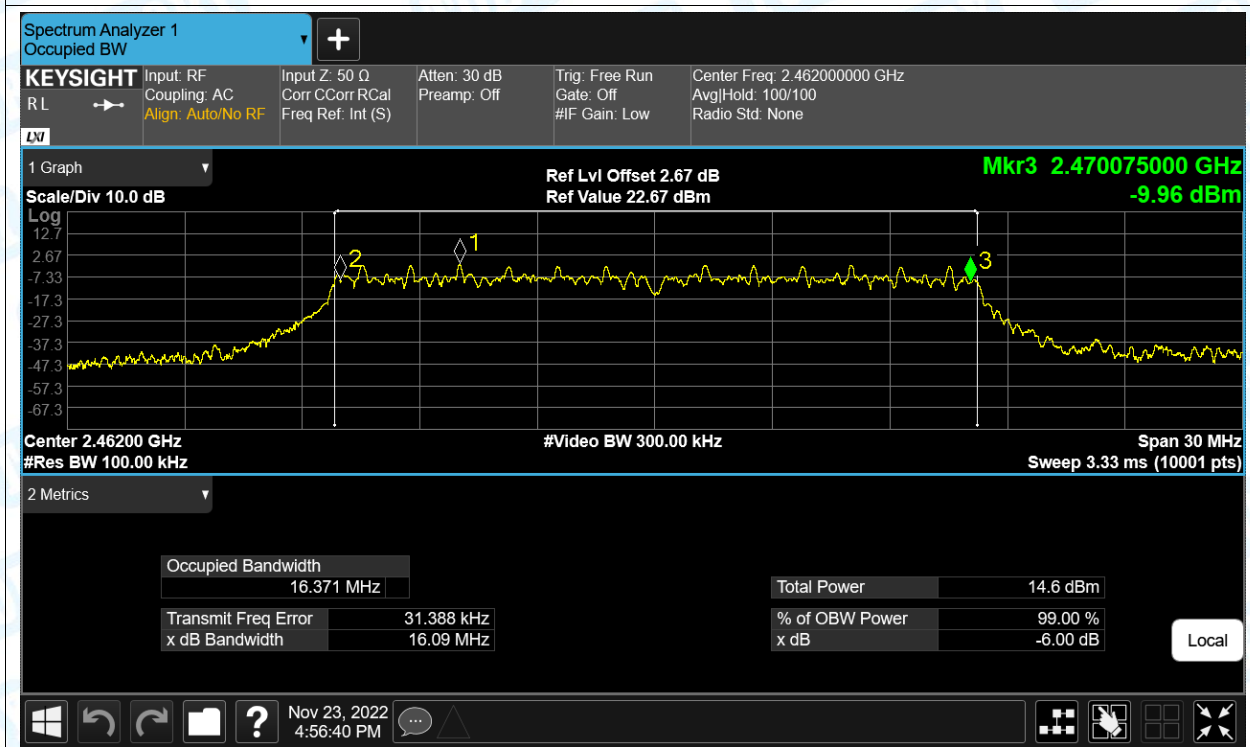
-6dB Bandwidth NVNT g 2412MHz Ant1



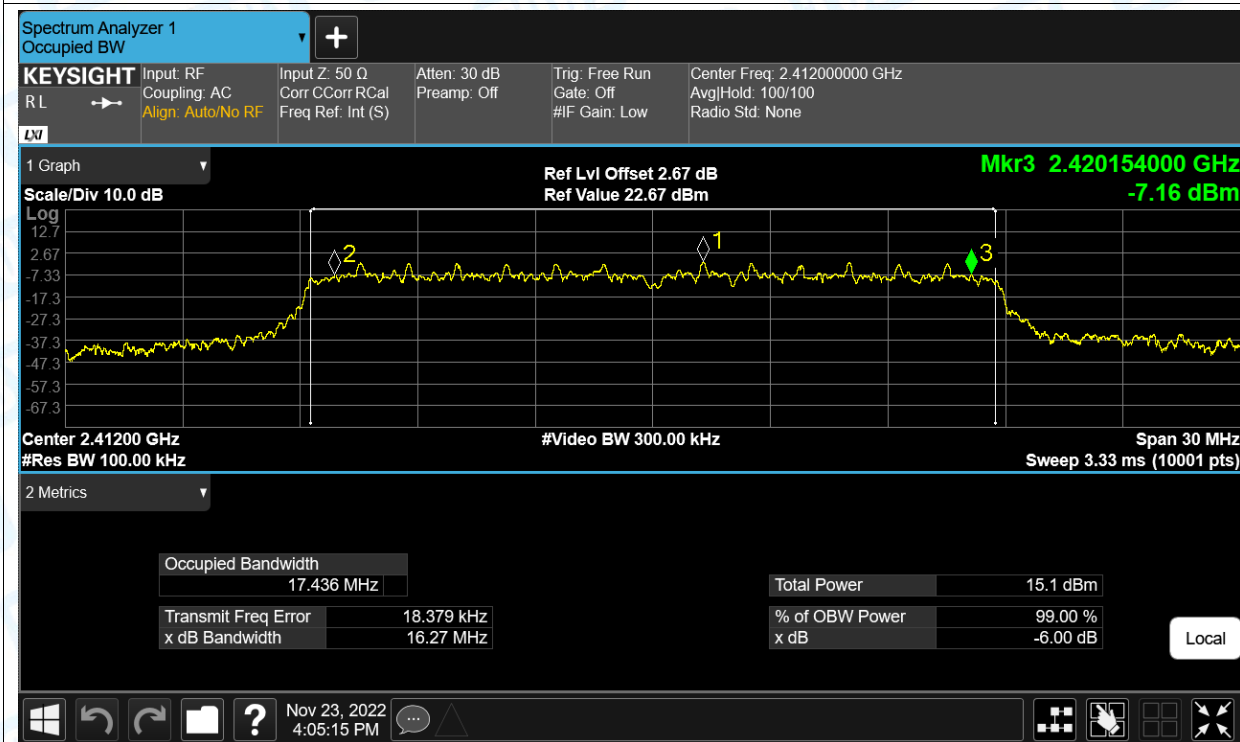
-6dB Bandwidth NVNT g 2437MHz Ant1



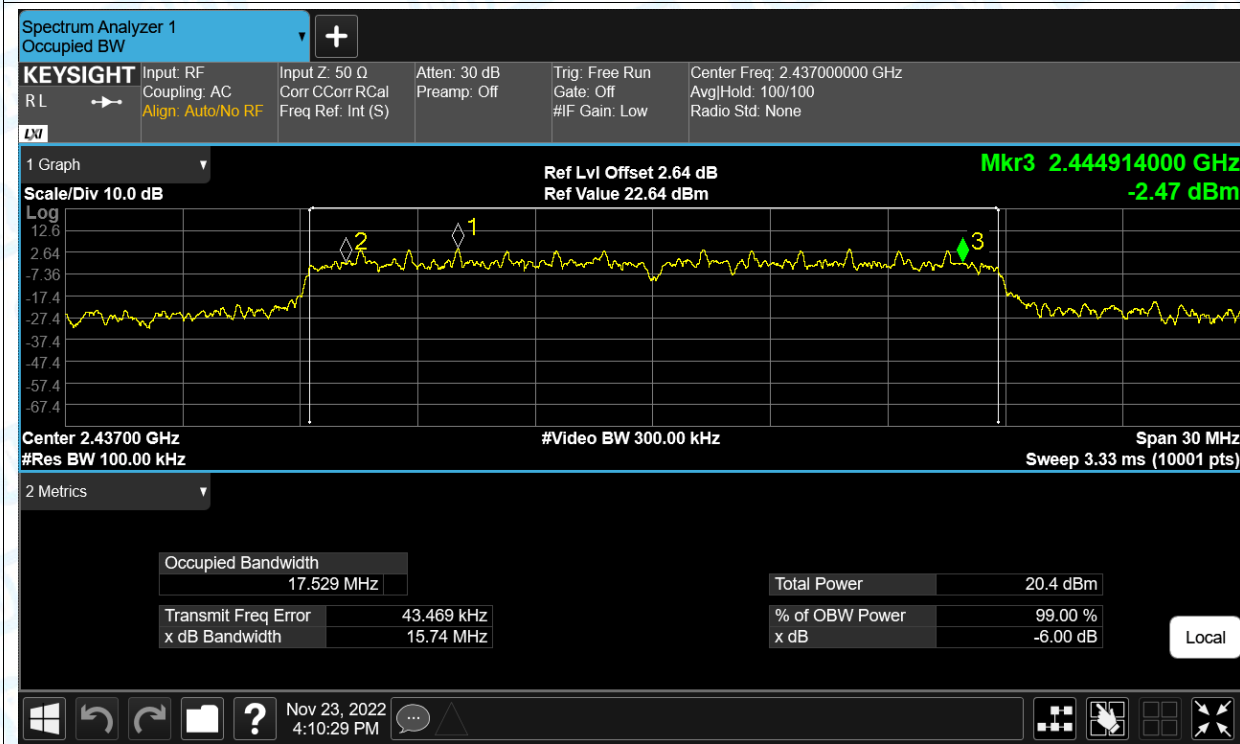
-6dB Bandwidth NVNT g 2462MHz Ant1



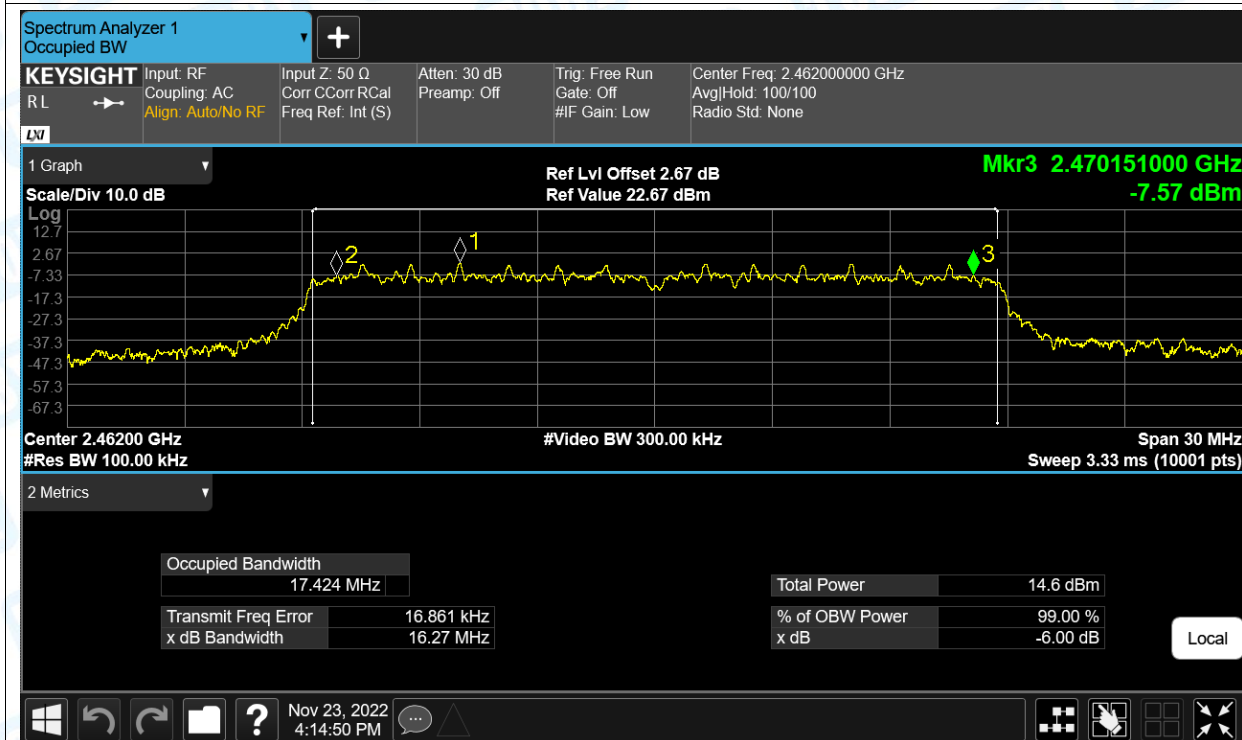
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



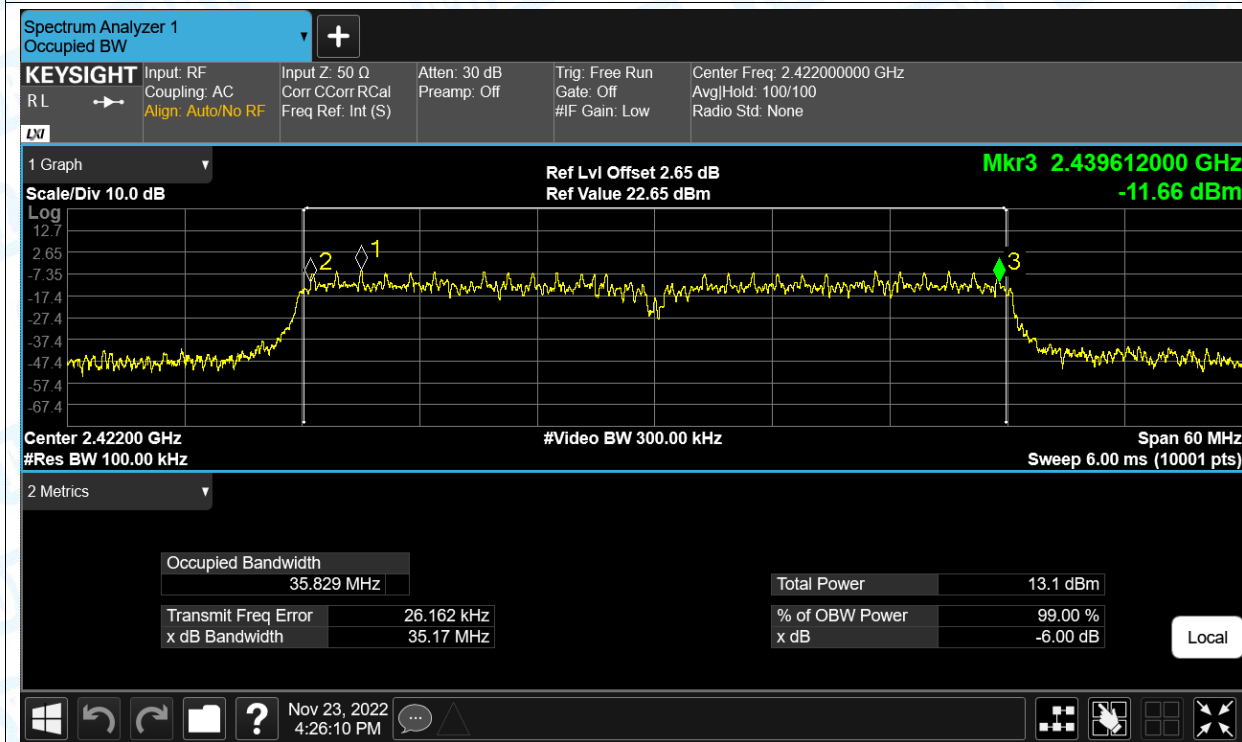
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



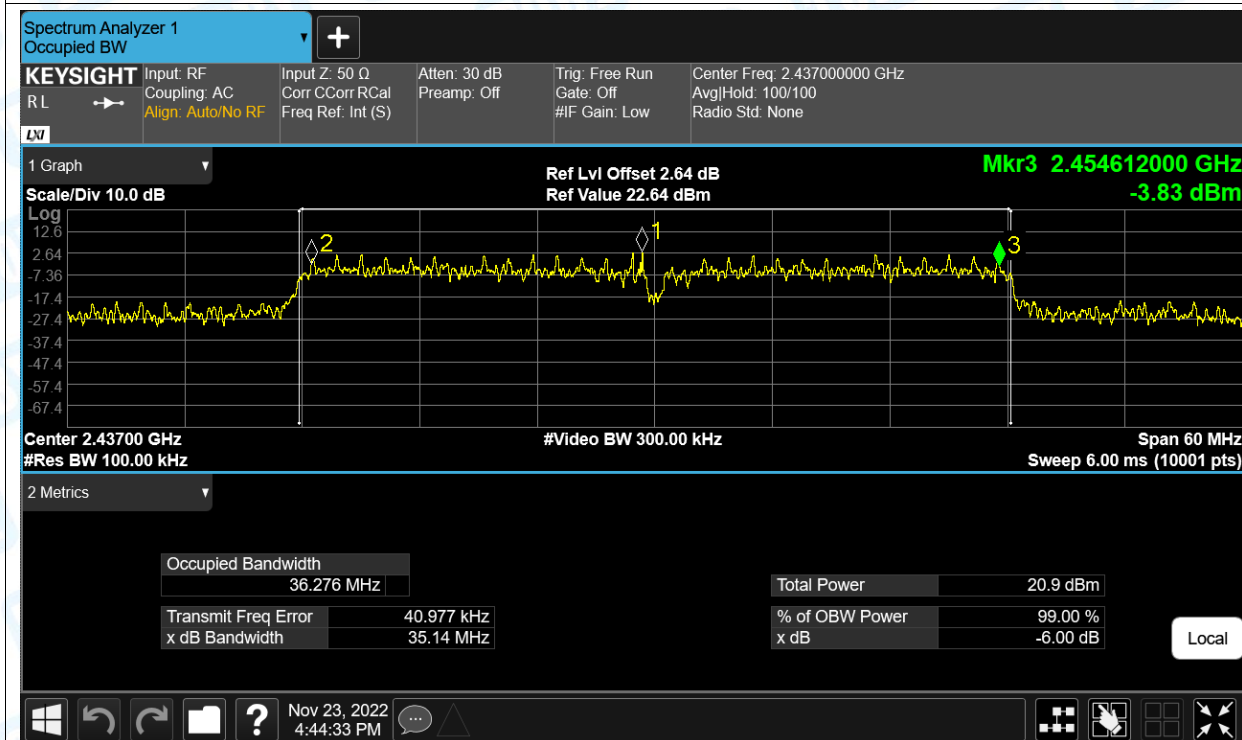
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



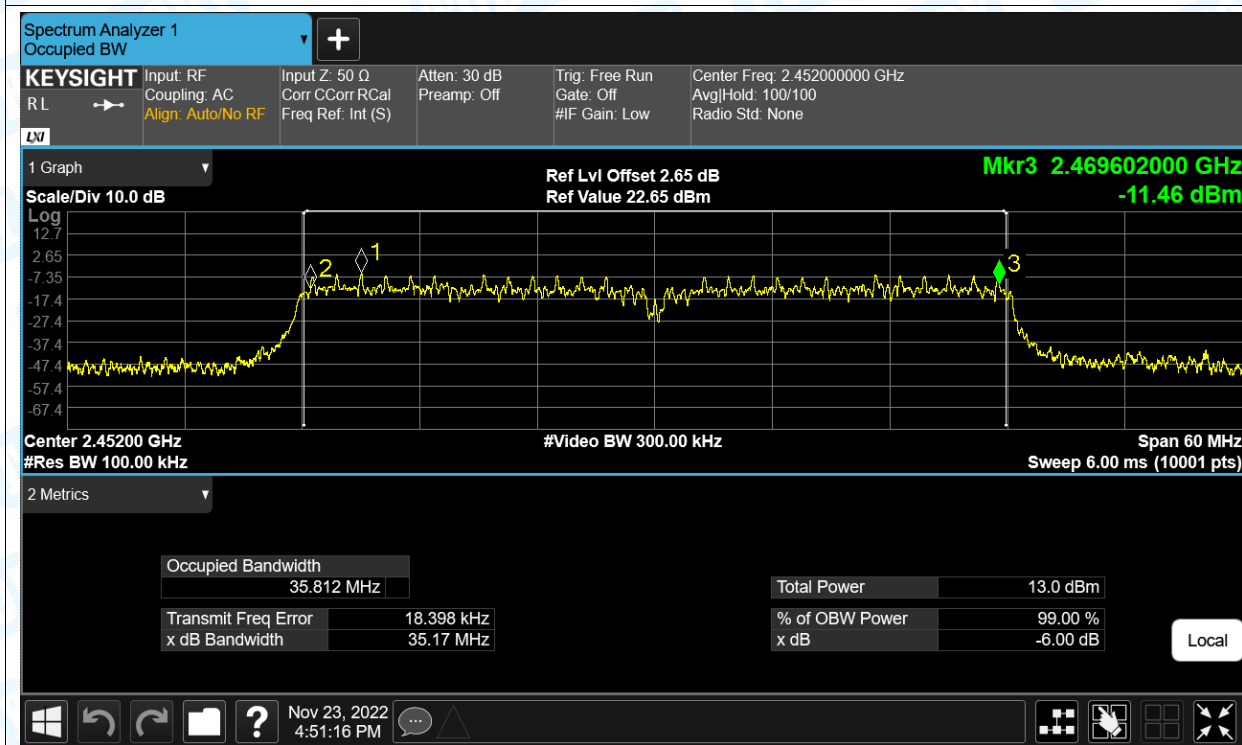
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

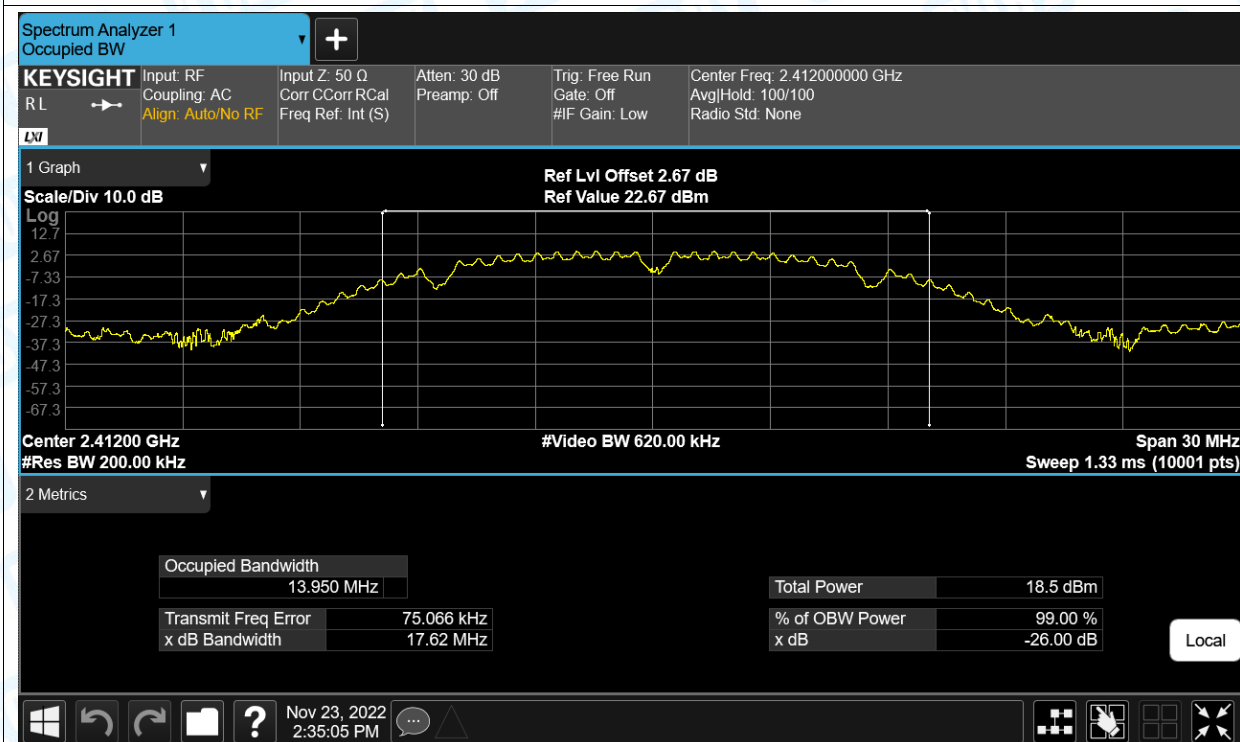


4. Occupied Channel Bandwidth

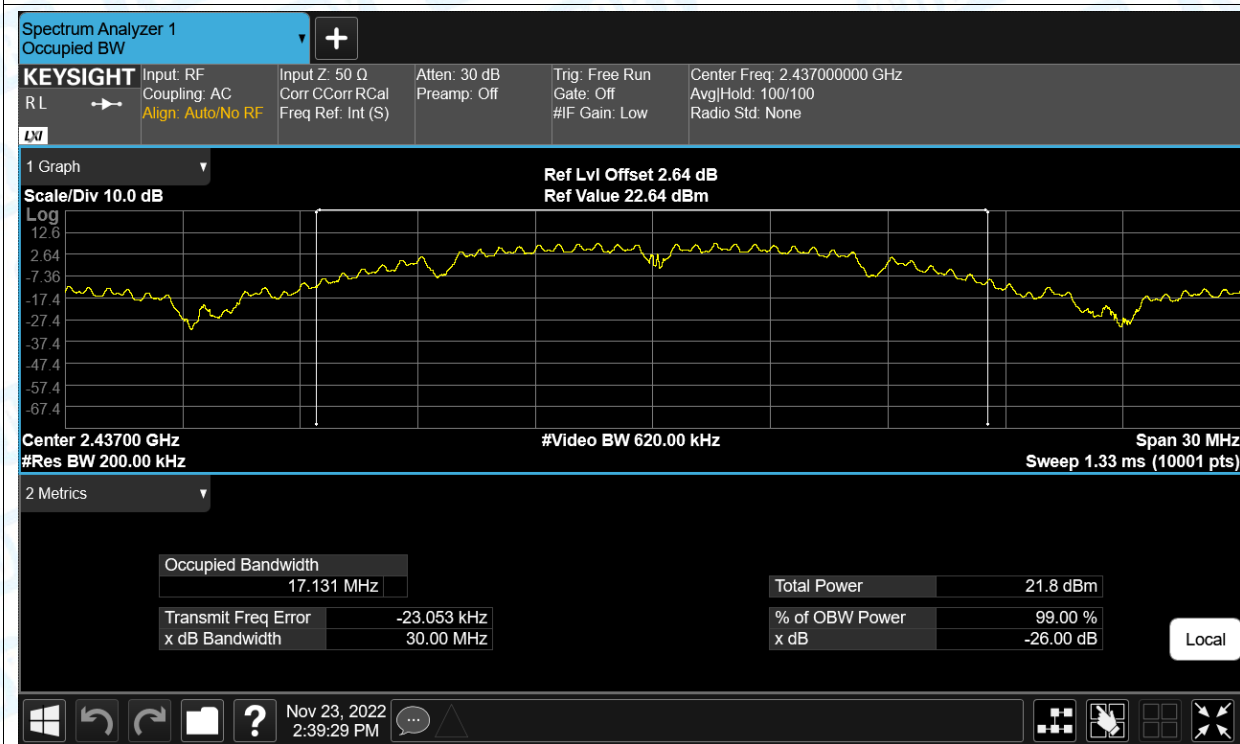
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.95
NVNT	b	2437	Ant1	17.131
NVNT	b	2462	Ant1	13.967
NVNT	g	2412	Ant1	16.448
NVNT	g	2437	Ant1	17.561
NVNT	g	2462	Ant1	16.454
NVNT	n(HT20)	2412	Ant1	17.419
NVNT	n(HT20)	2437	Ant1	17.594
NVNT	n(HT20)	2462	Ant1	17.416
NVNT	n(HT40)	2422	Ant1	36.017
NVNT	n(HT40)	2437	Ant1	36.716
NVNT	n(HT40)	2452	Ant1	36.007

Test Graphs

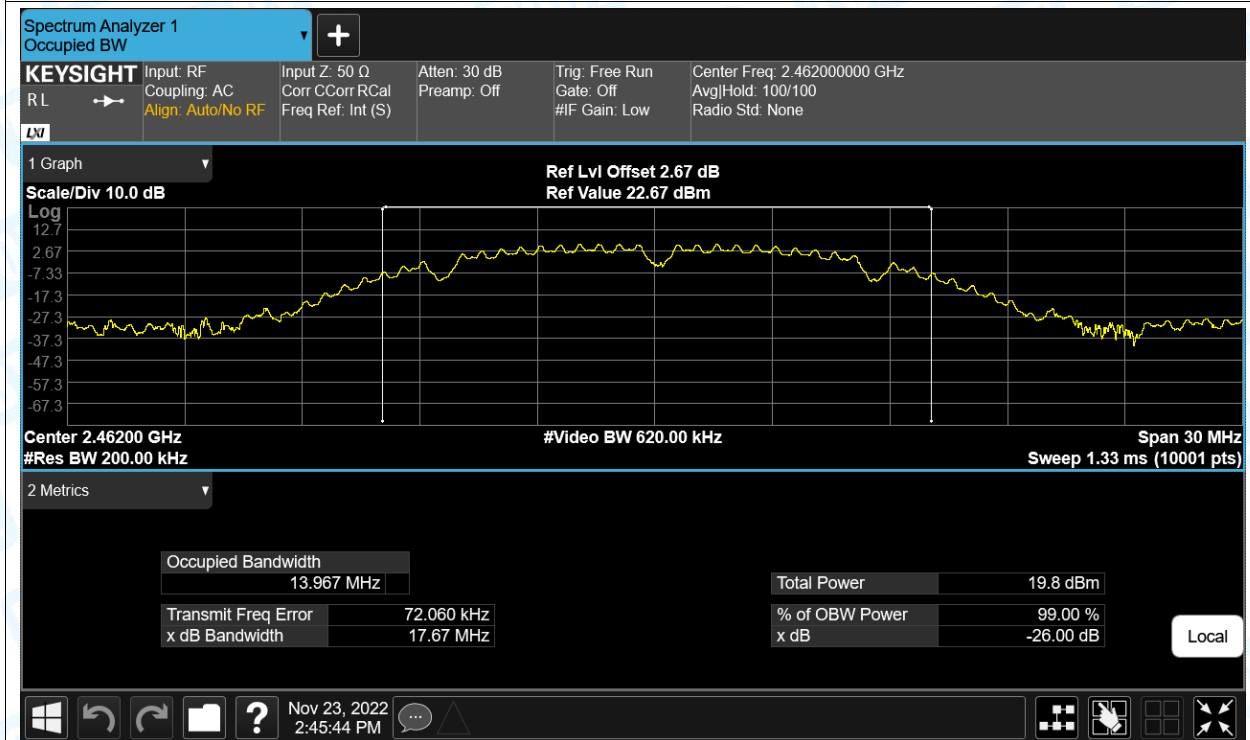
OBW NVNT b 2412MHz Ant1



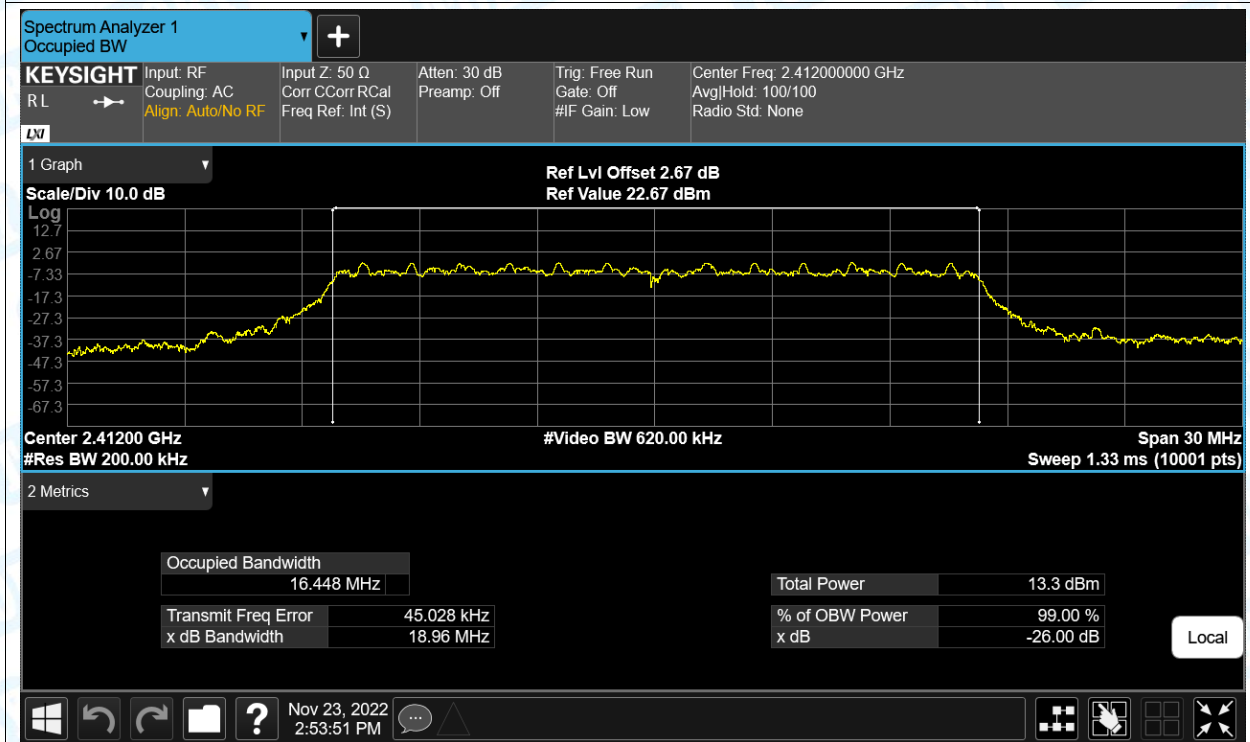
OBW NVNT b 2437MHz Ant1



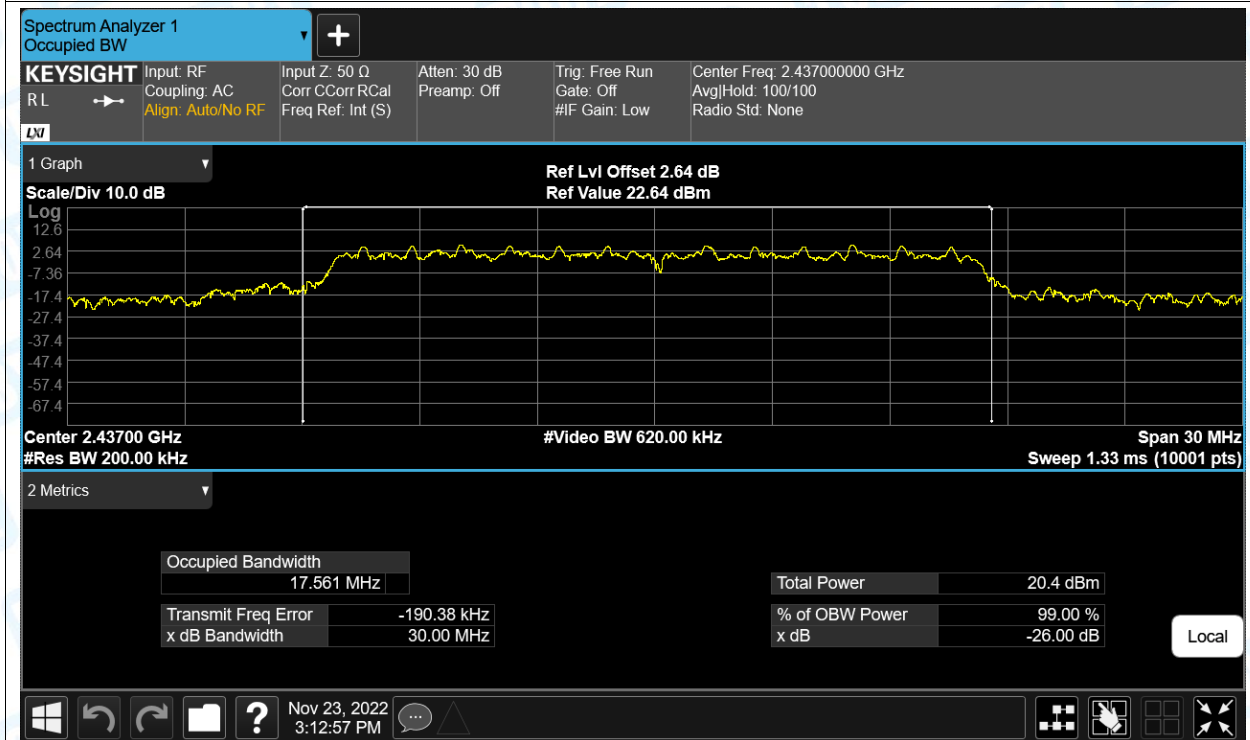
OBW NVNT b 2462MHz Ant1



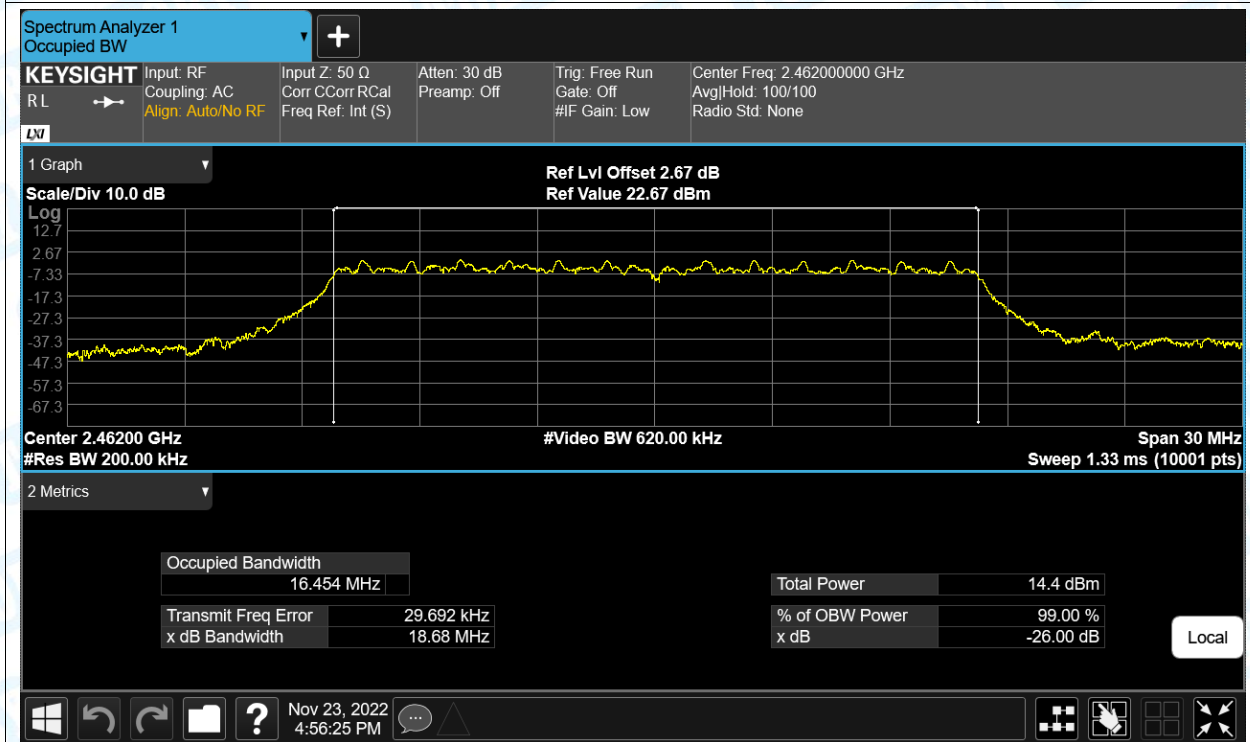
OBW NVNT g 2412MHz Ant1



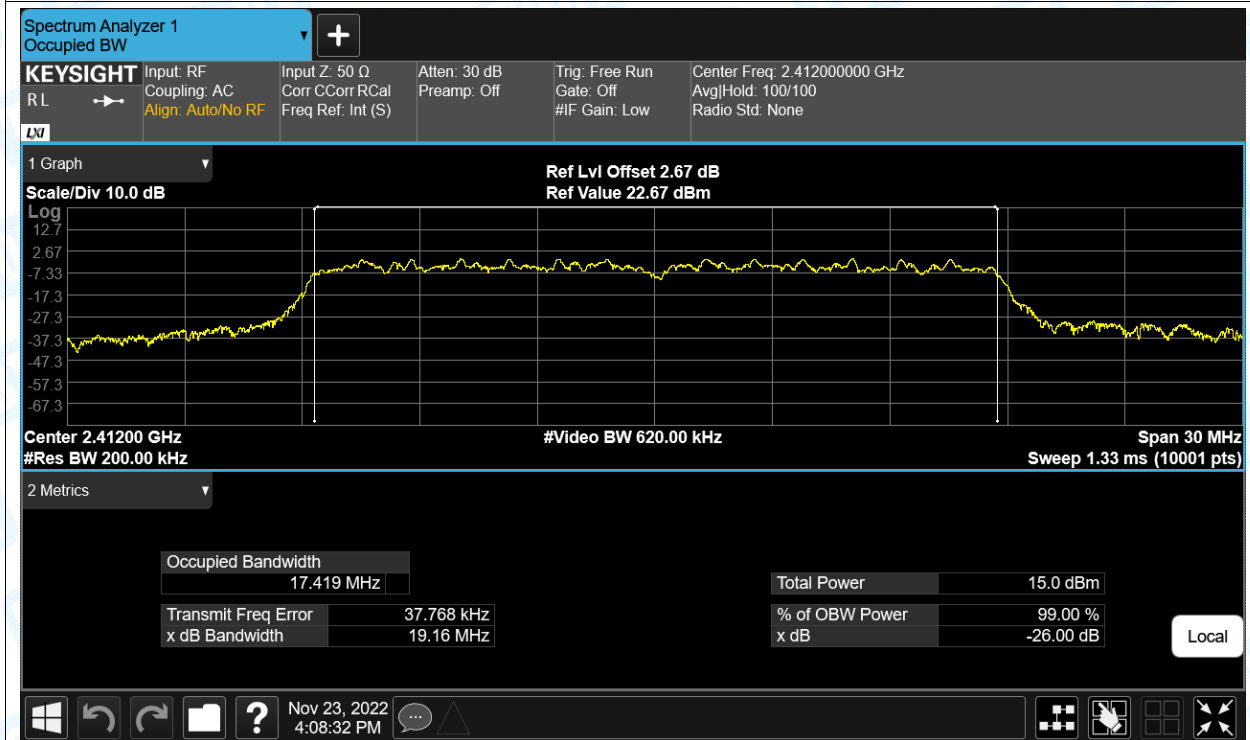
OBW NVNT g 2437MHz Ant1



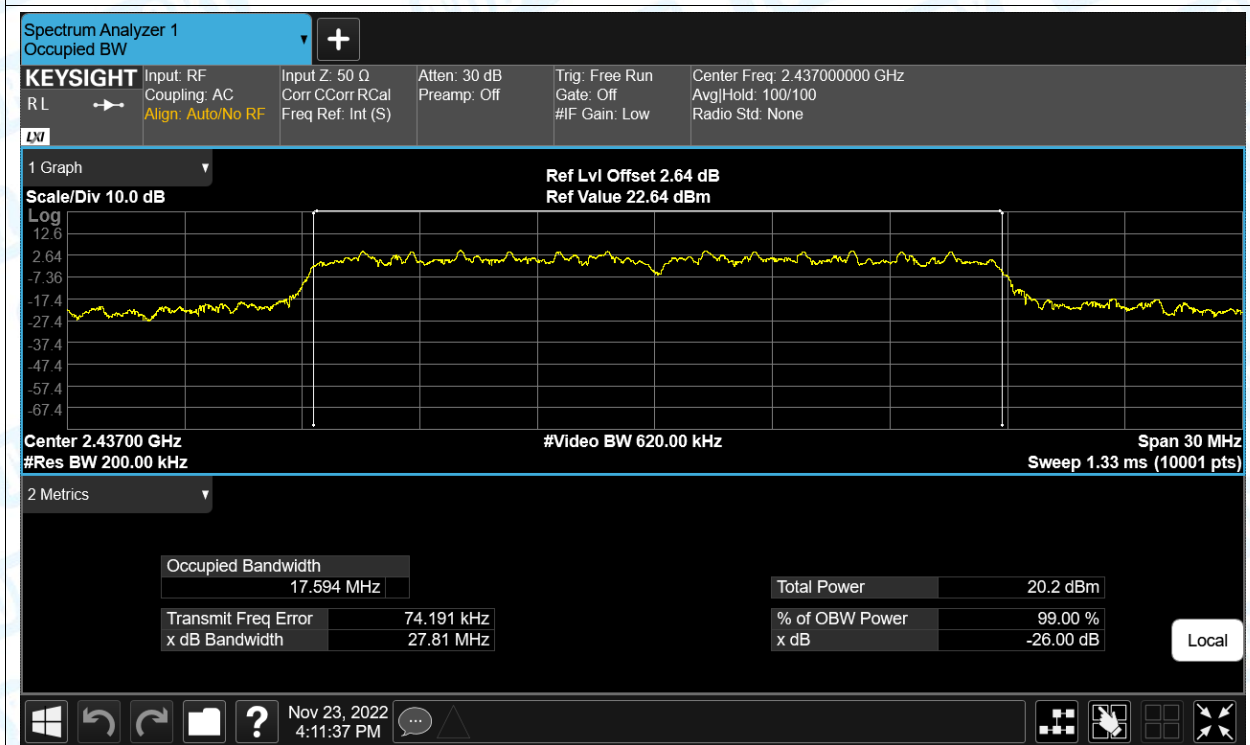
OBW NVNT g 2462MHz Ant1



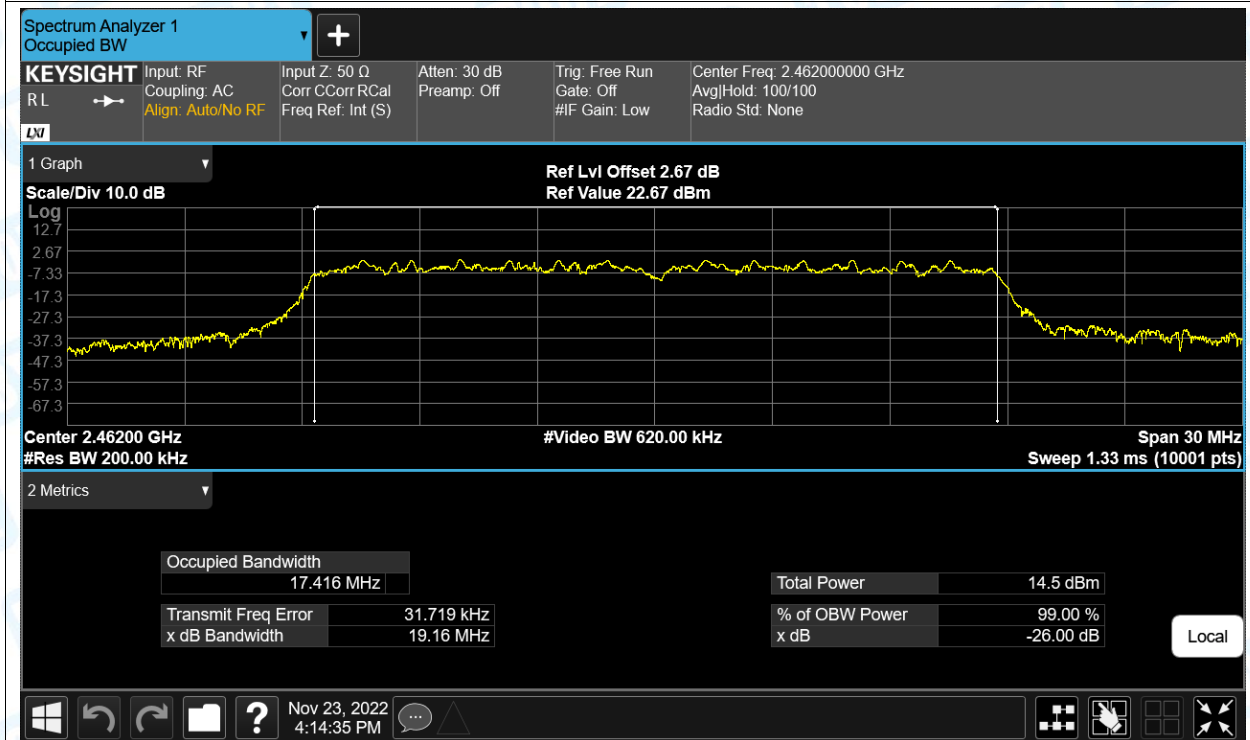
OBW NVNT n(HT20) 2412MHz Ant1



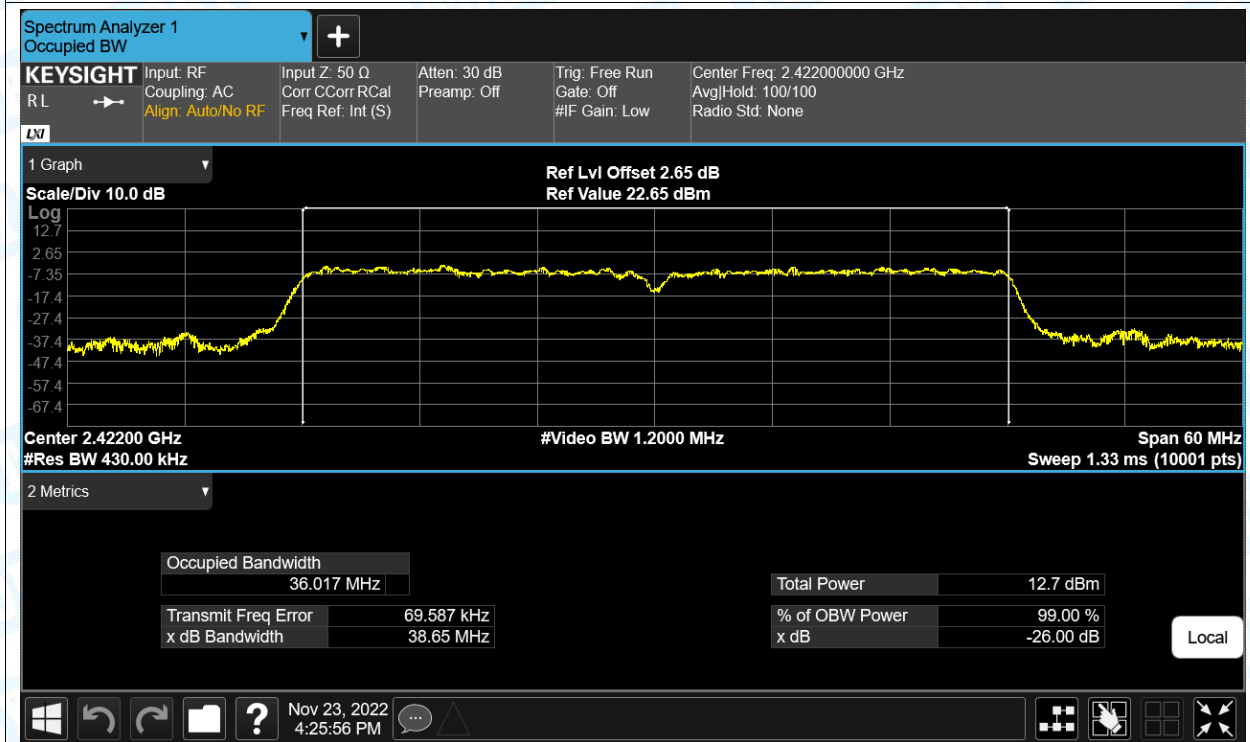
OBW NVNT n(HT20) 2437MHz Ant1



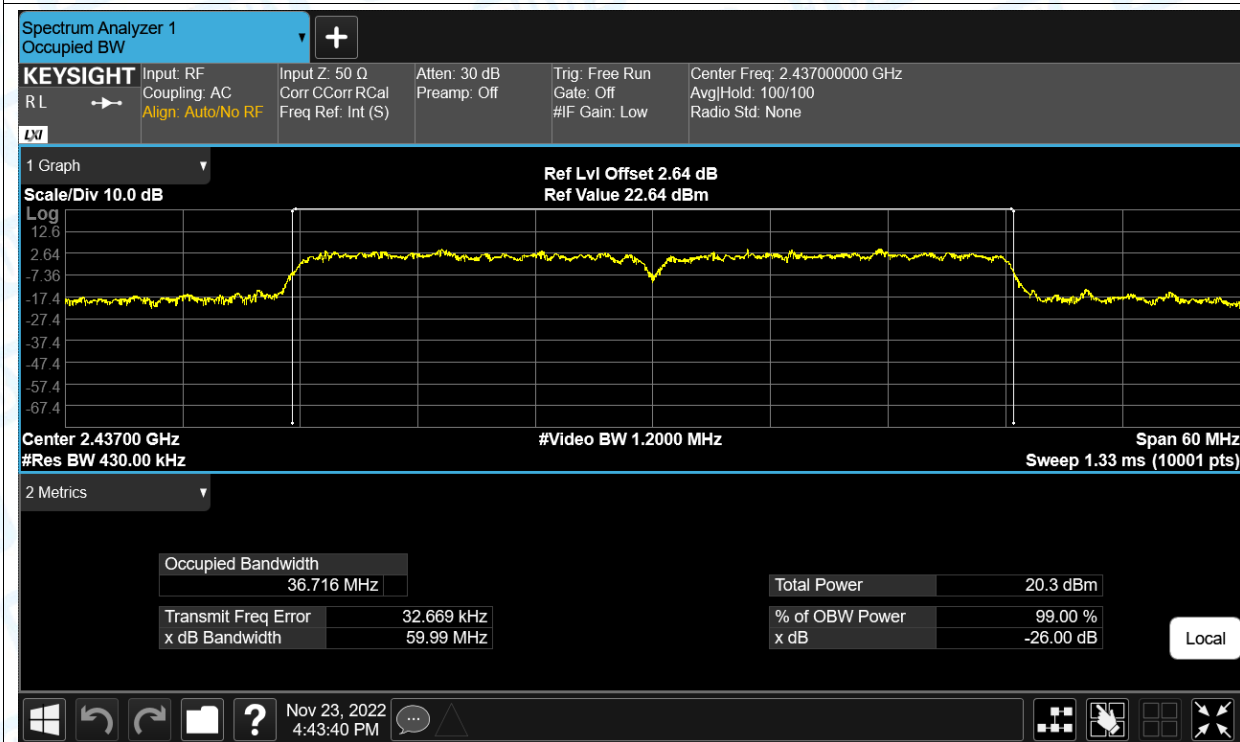
OBW NVNT n(HT20) 2462MHz Ant1



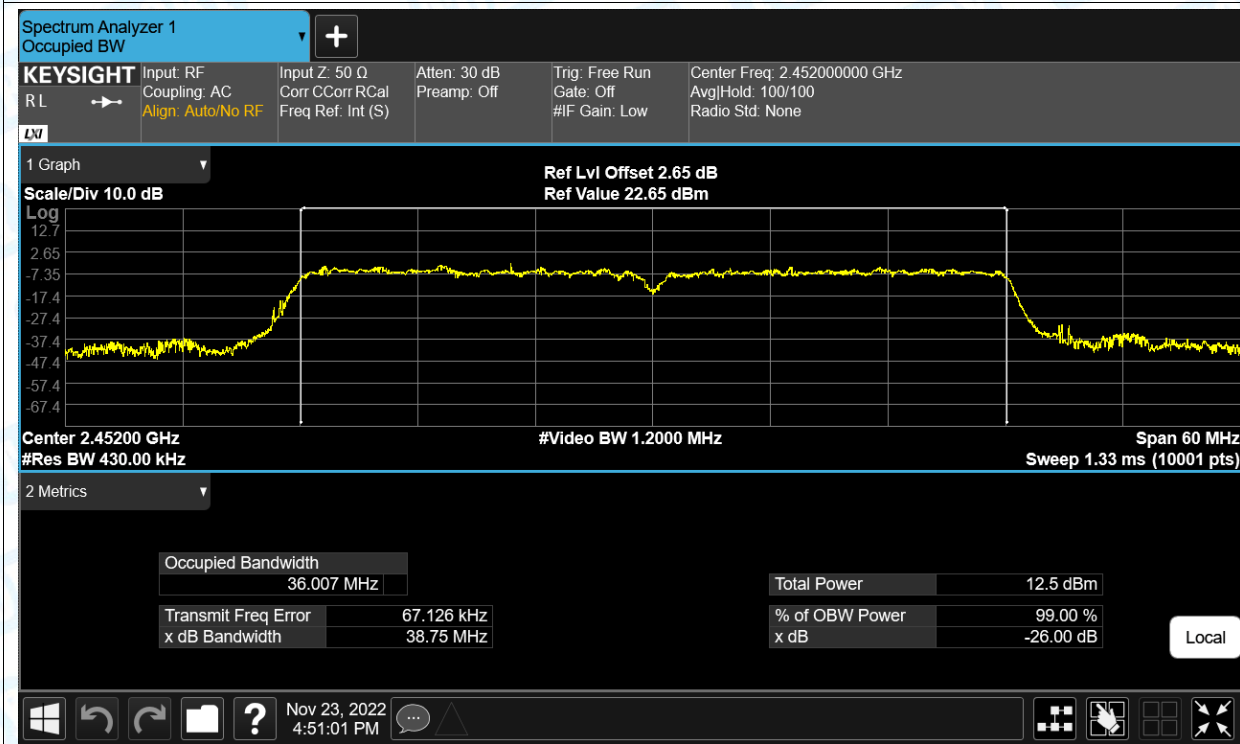
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



5. Maximum Power Spectral Density Level

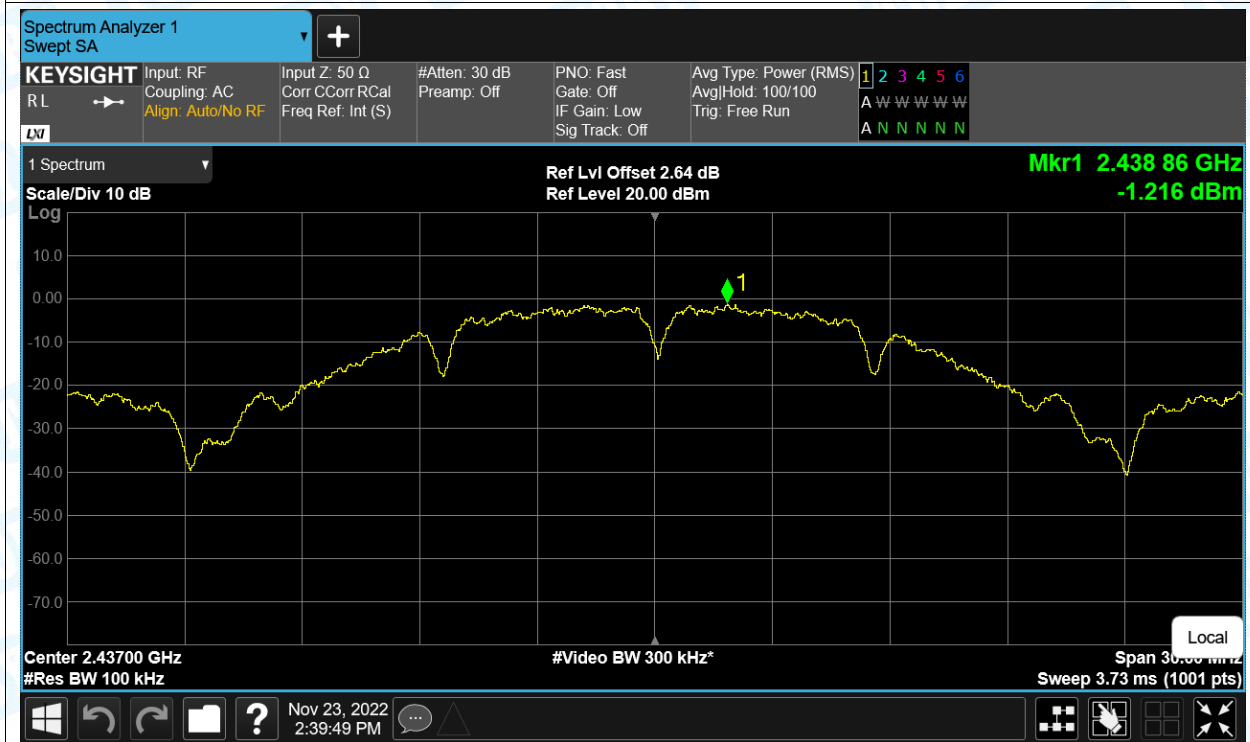
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-4.373	8	Pass
NVNT	b	2437	Ant1	-1.216	8	Pass
NVNT	b	2462	Ant1	-2.941	8	Pass
NVNT	g	2412	Ant1	-10.816	8	Pass
NVNT	g	2437	Ant1	-3.558	8	Pass
NVNT	g	2462	Ant1	-9.305	8	Pass
NVNT	n(HT20)	2412	Ant1	-8.819	8	Pass
NVNT	n(HT20)	2437	Ant1	-3.549	8	Pass
NVNT	n(HT20)	2462	Ant1	-8.824	8	Pass
NVNT	n(HT40)	2422	Ant1	-13.131	8	Pass
NVNT	n(HT40)	2437	Ant1	-5.866	8	Pass
NVNT	n(HT40)	2452	Ant1	-13.925	8	Pass

Test Graphs

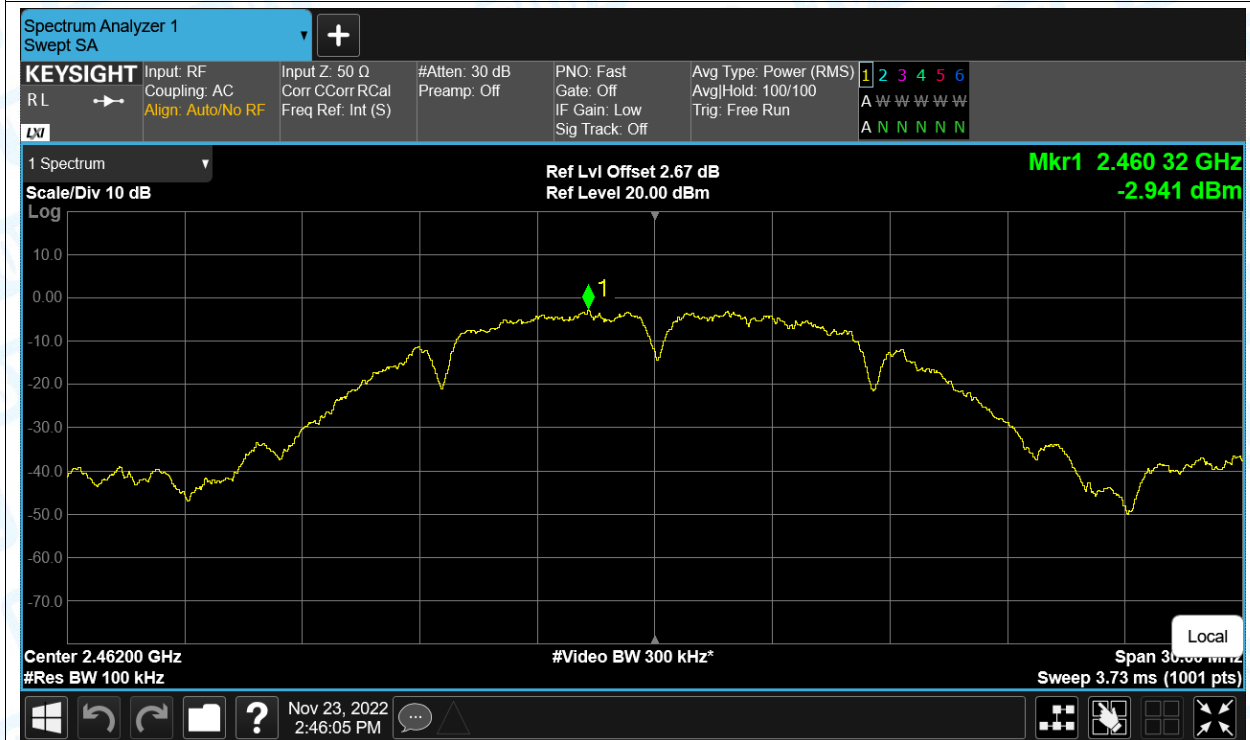
PSD NVNT b 2412MHz Ant1



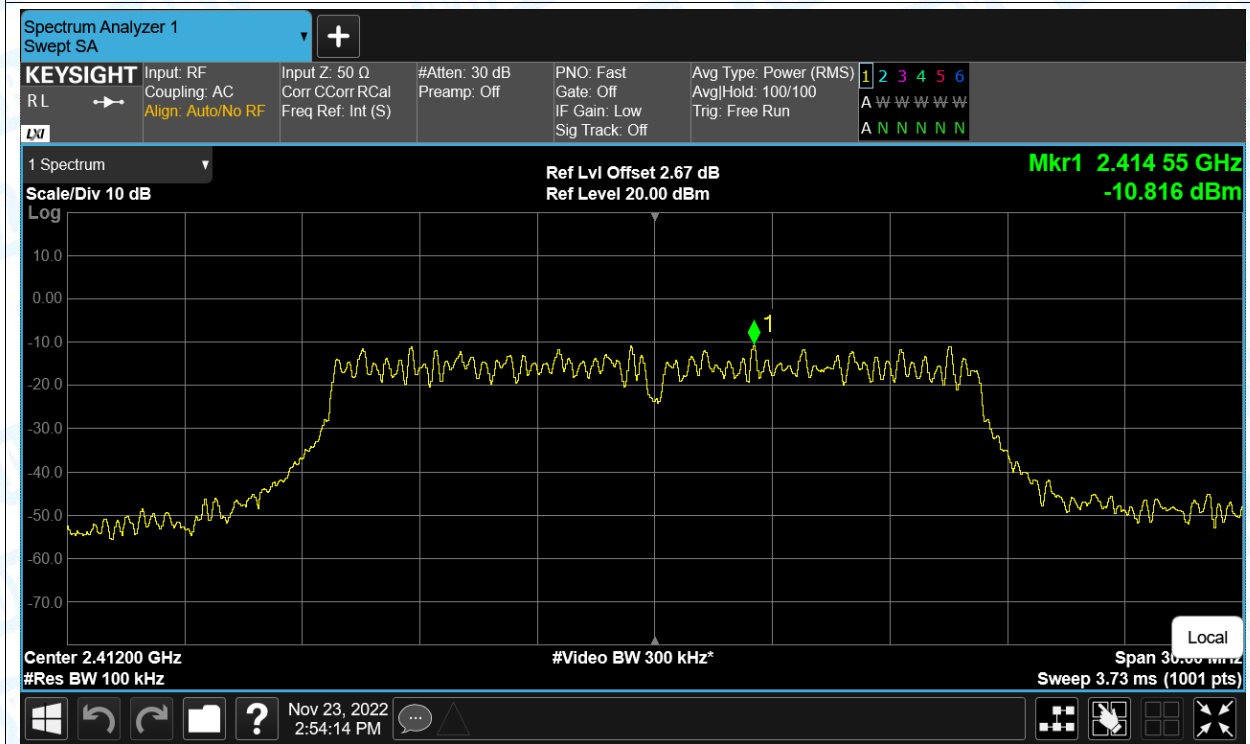
PSD NVNT b 2437MHz Ant1



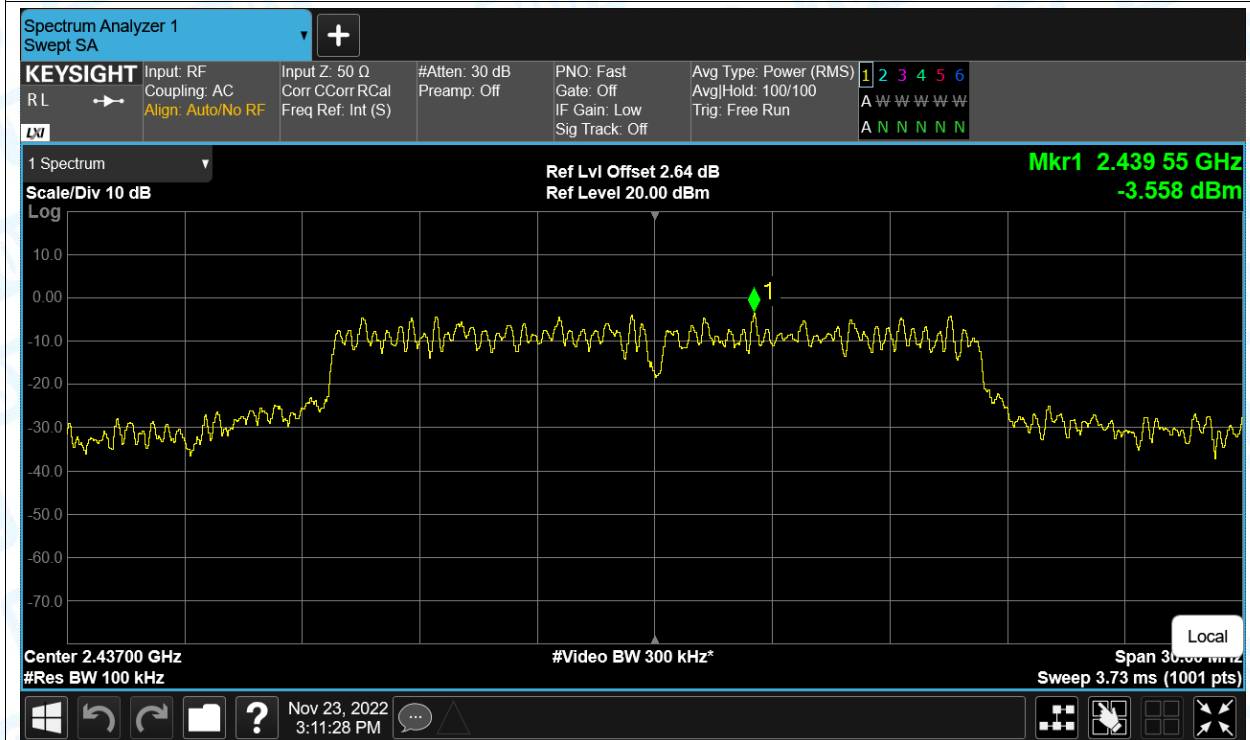
PSD NVNT b 2462MHz Ant1



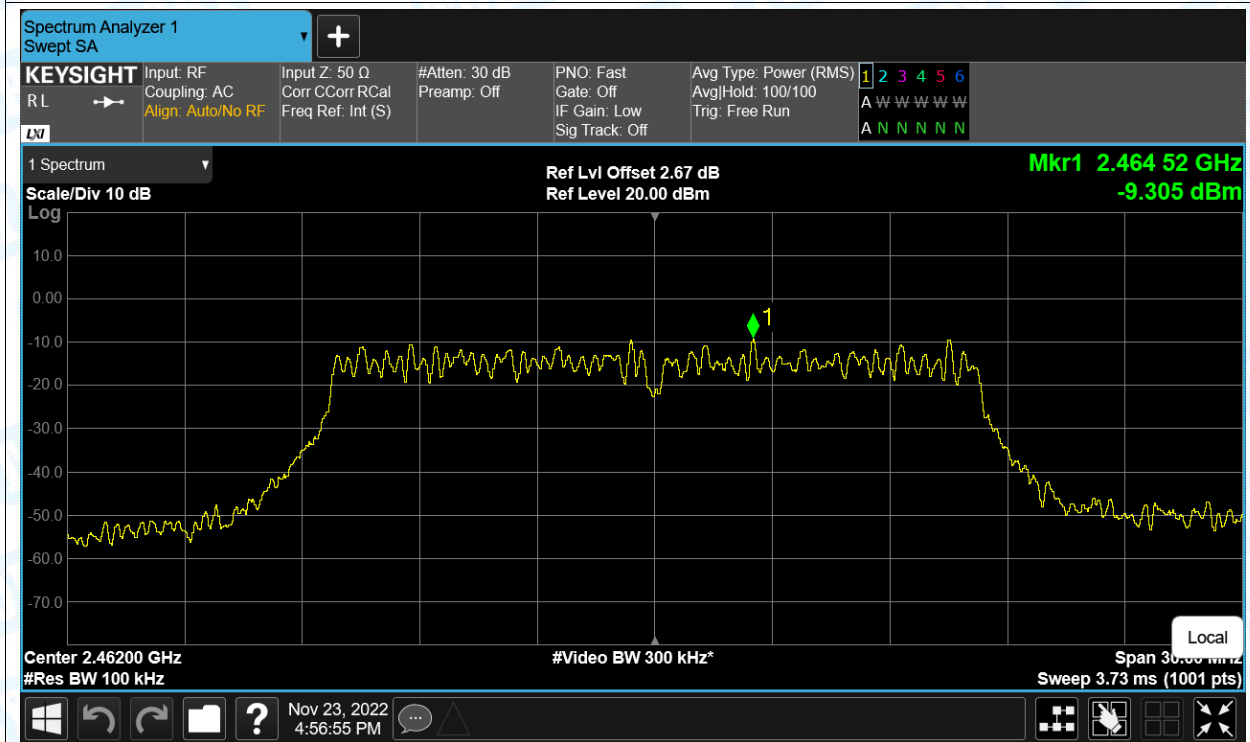
PSD NVNT g 2412MHz Ant1



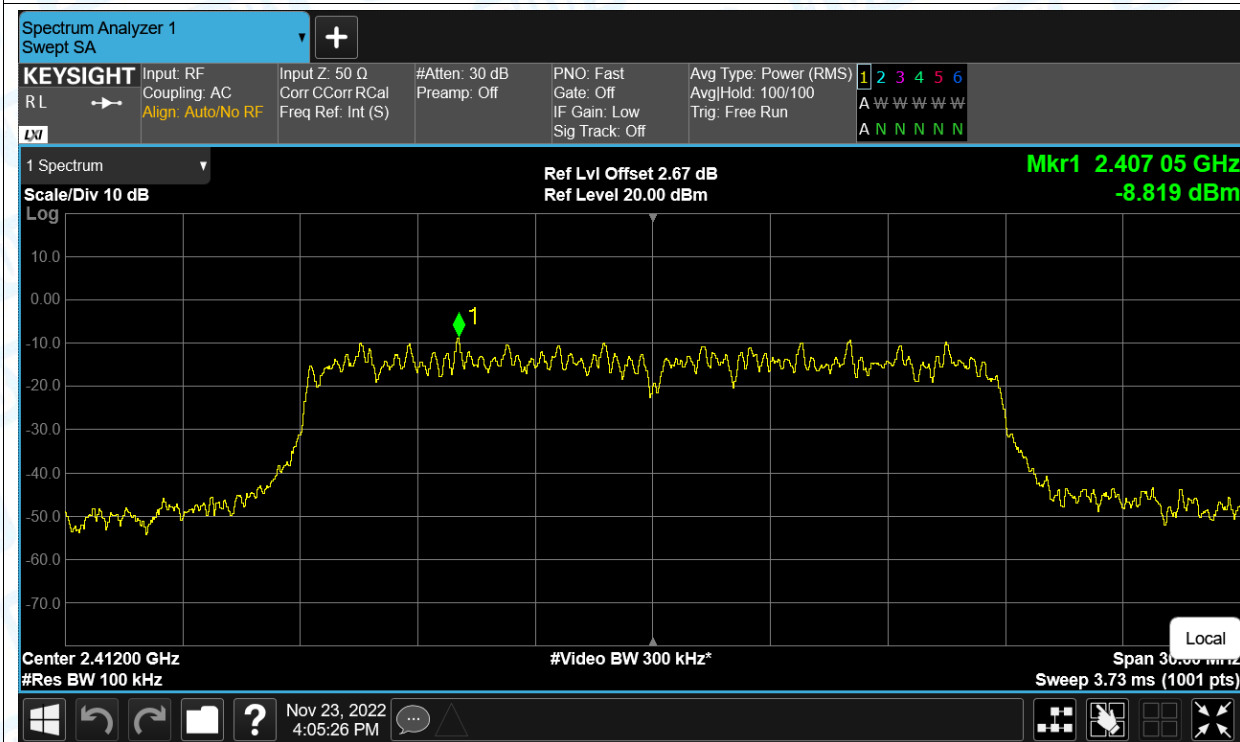
PSD NVNT g 2437MHz Ant1



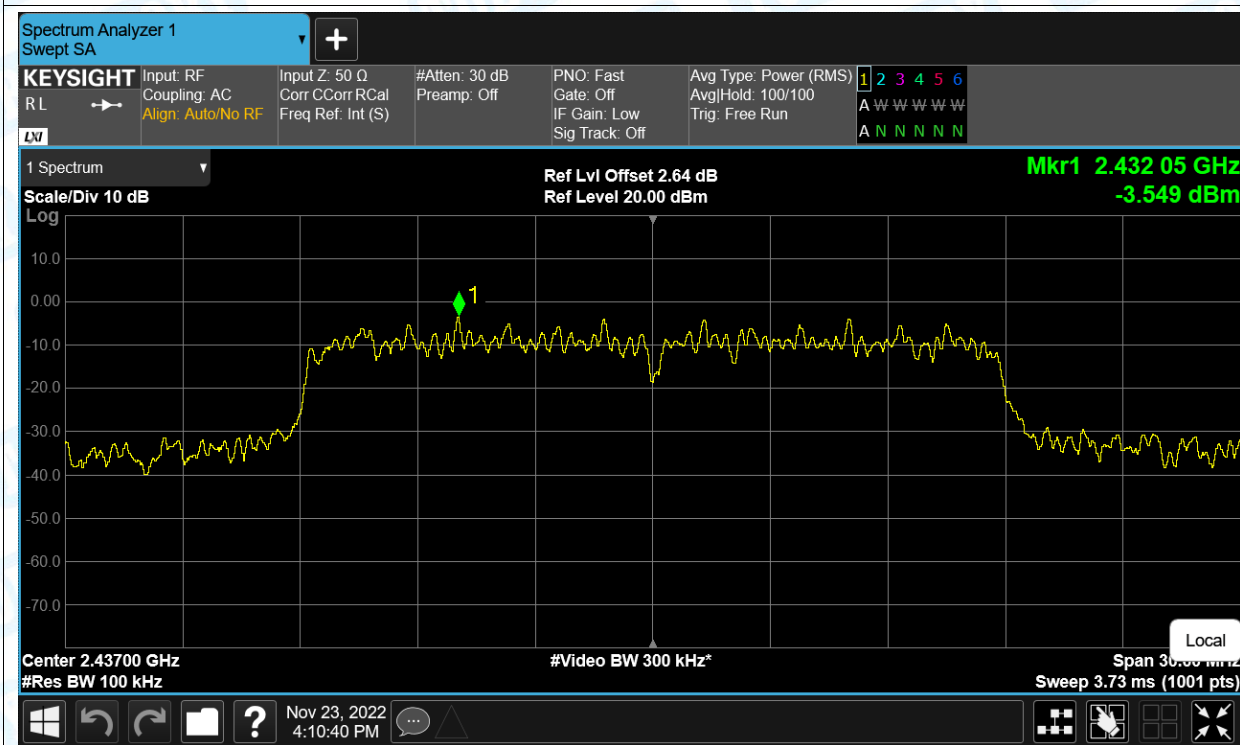
PSD NVNT g 2462MHz Ant1



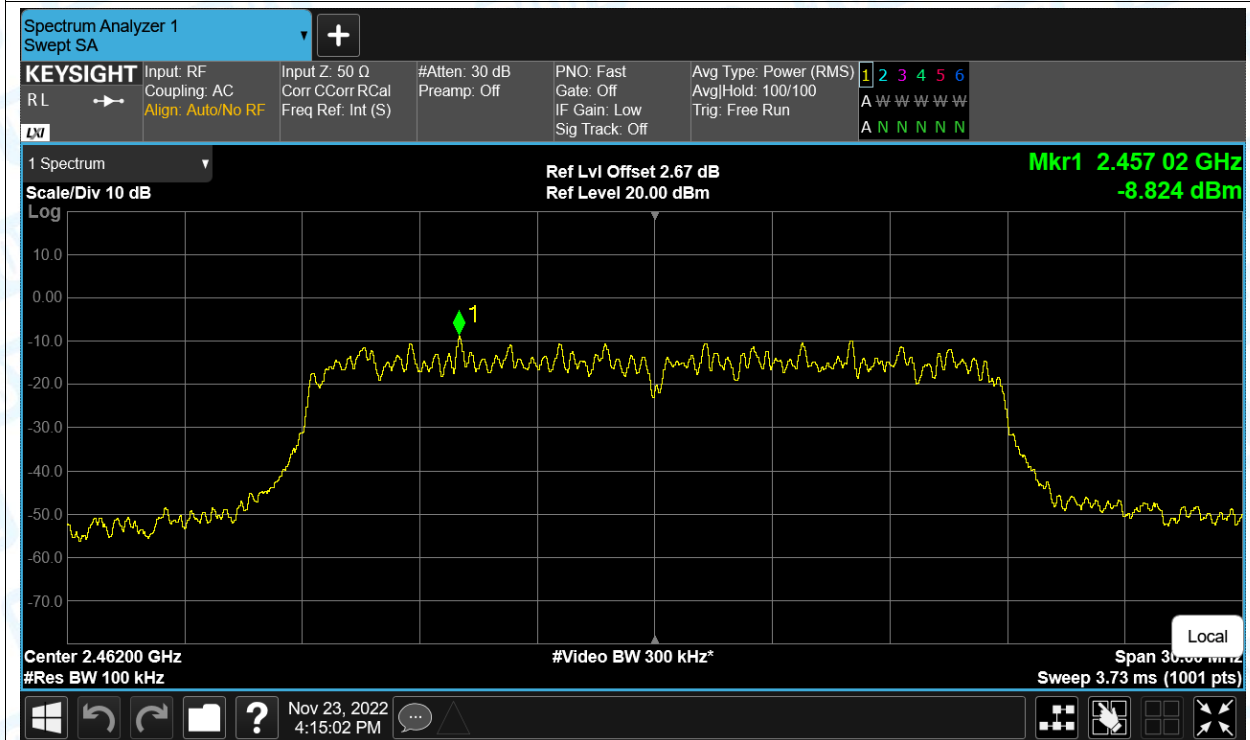
PSD NVNT n(HT20) 2412MHz Ant1



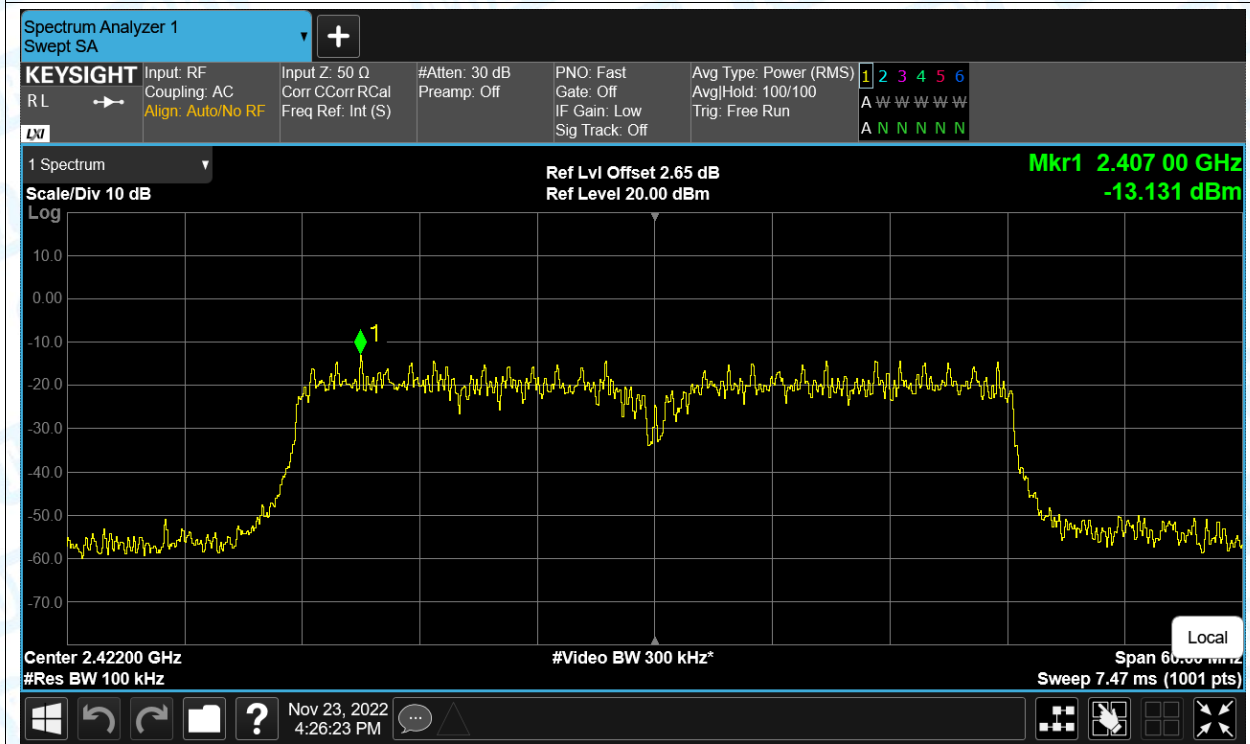
PSD NVNT n(HT20) 2437MHz Ant1



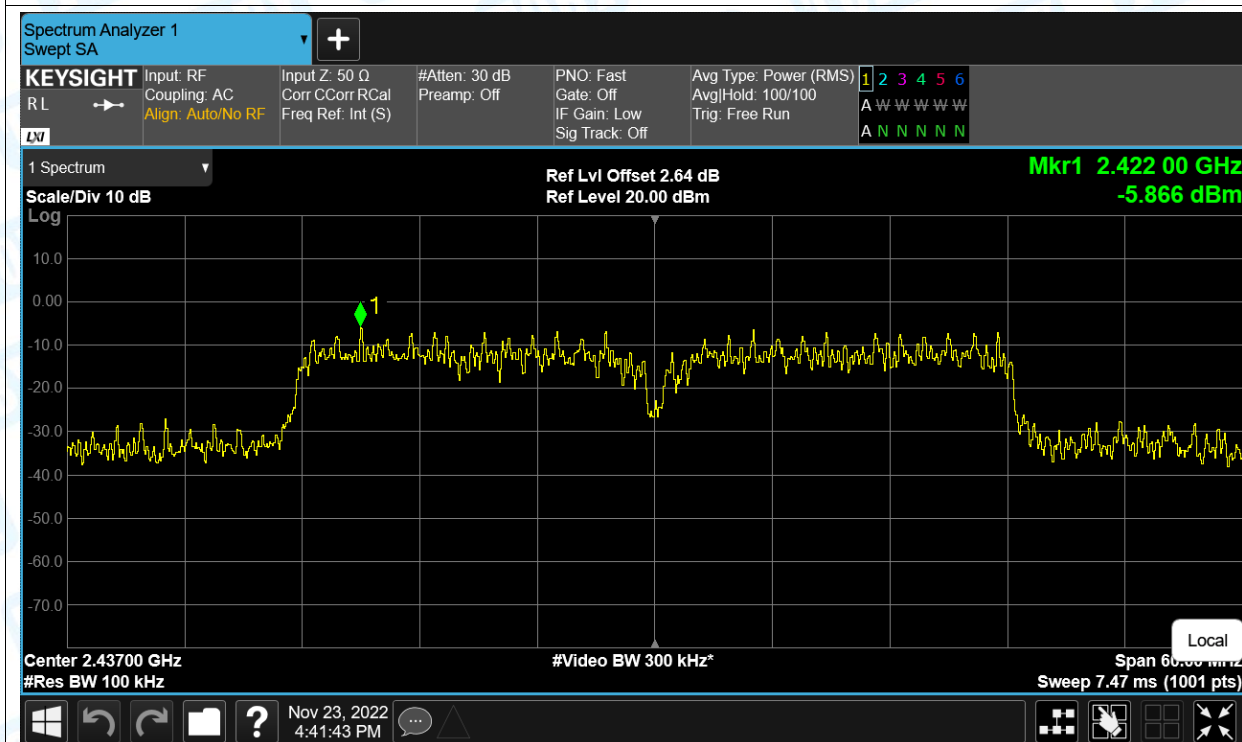
PSD NVNT n(HT20) 2462MHz Ant1



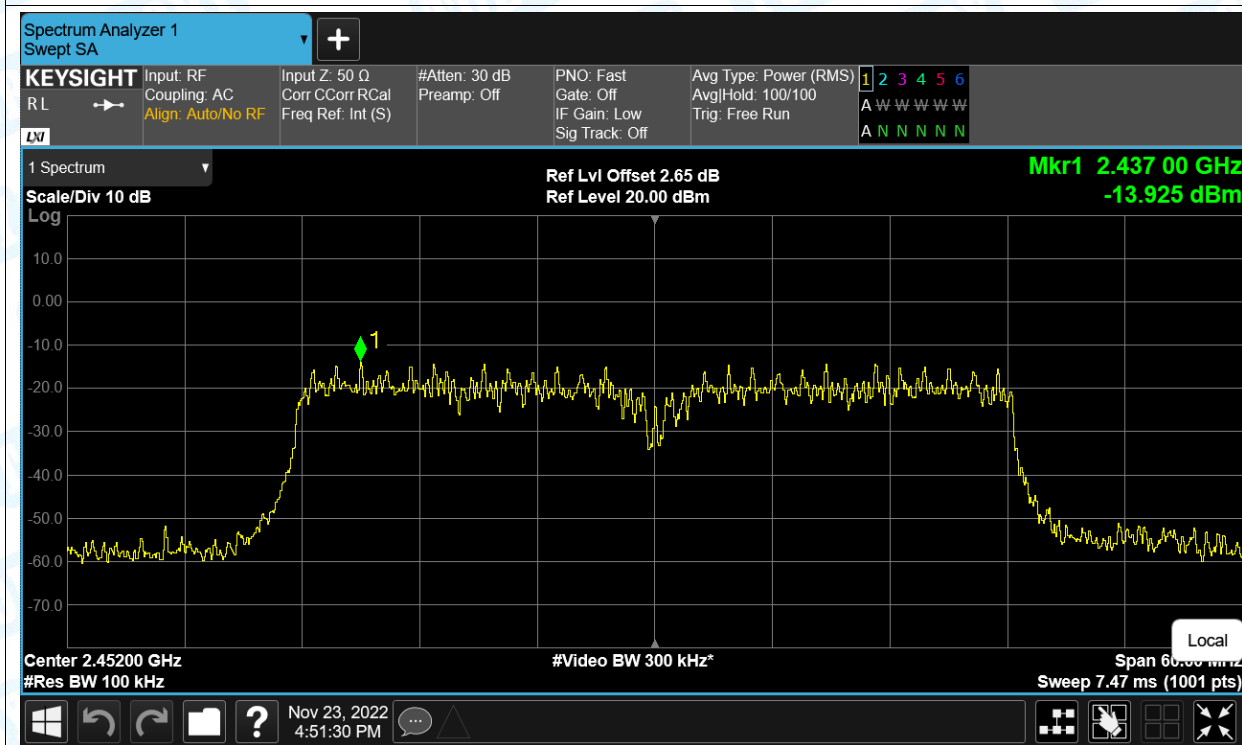
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

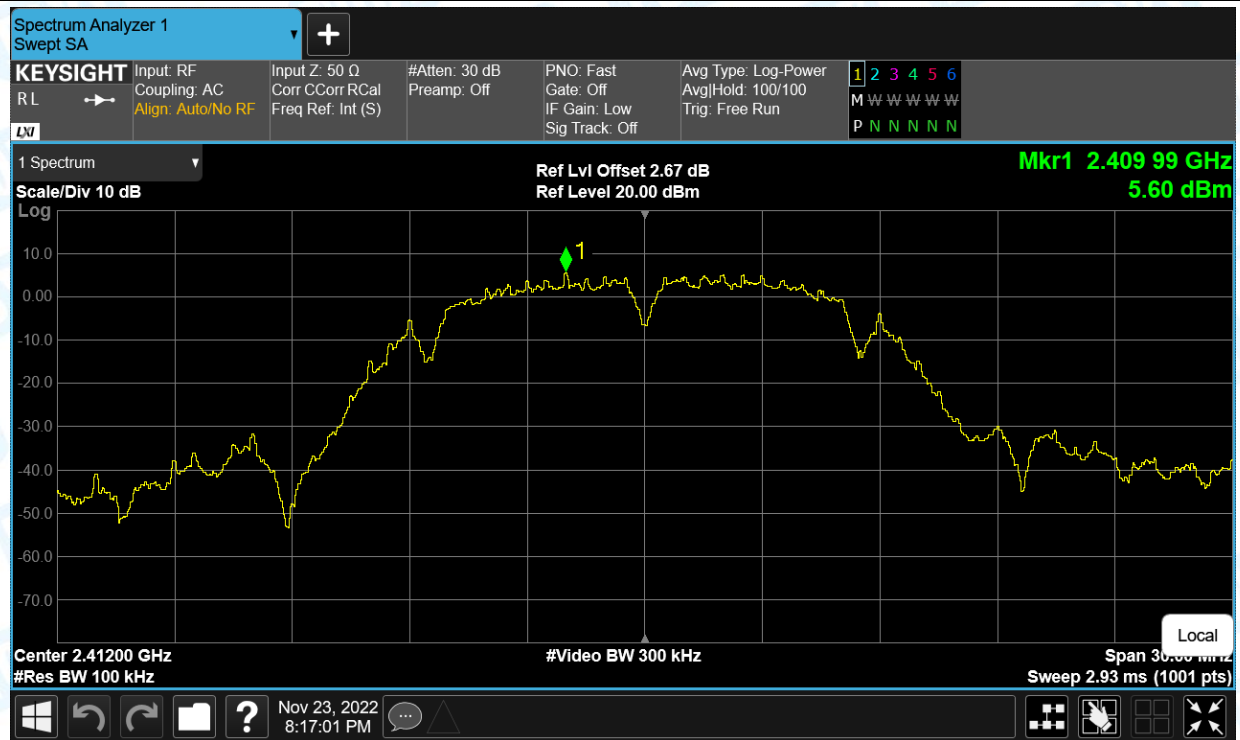


6. Band Edge

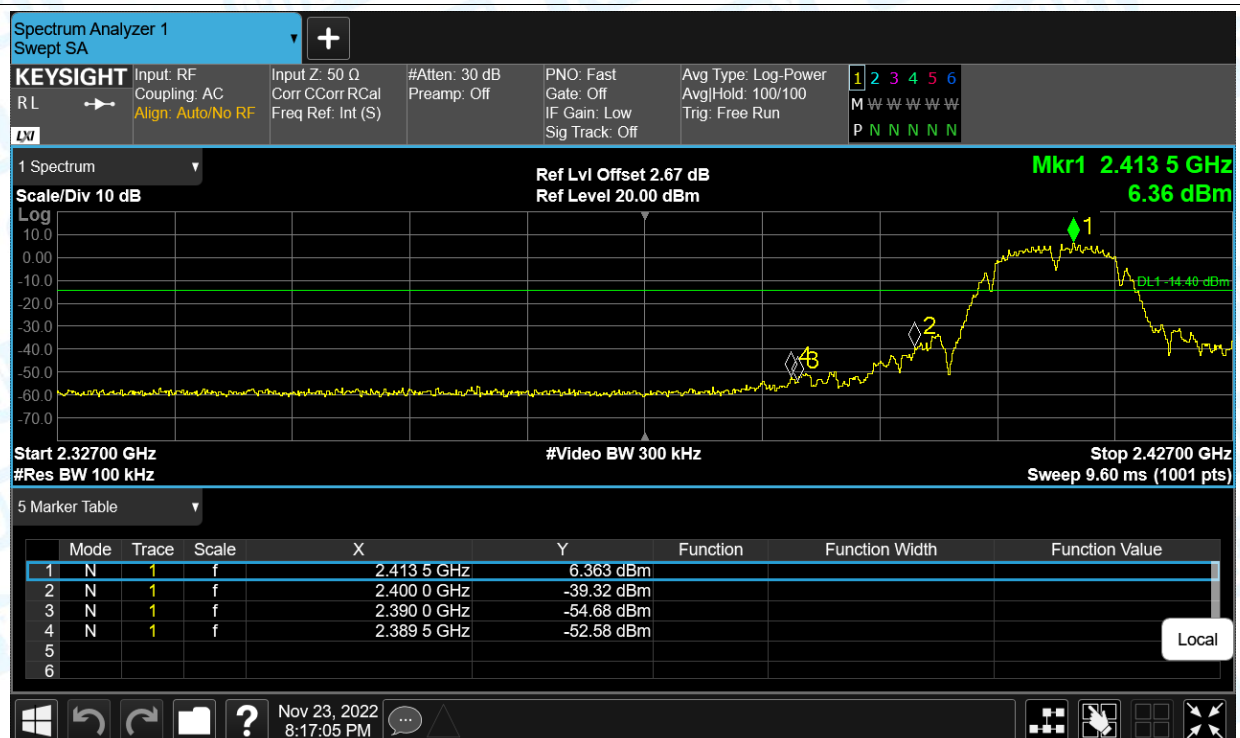
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-58.18	-20	Pass
NVNT	b	2462	Ant1	-59.05	-20	Pass
NVNT	g	2412	Ant1	-44.48	-20	Pass
NVNT	g	2462	Ant1	-44.58	-20	Pass
NVNT	n(HT20)	2412	Ant1	-41.23	-20	Pass
NVNT	n(HT20)	2462	Ant1	-41.55	-20	Pass
NVNT	n(HT40)	2422	Ant1	-32.01	-20	Pass
NVNT	n(HT40)	2452	Ant1	-32.64	-20	Pass

Test Graphs

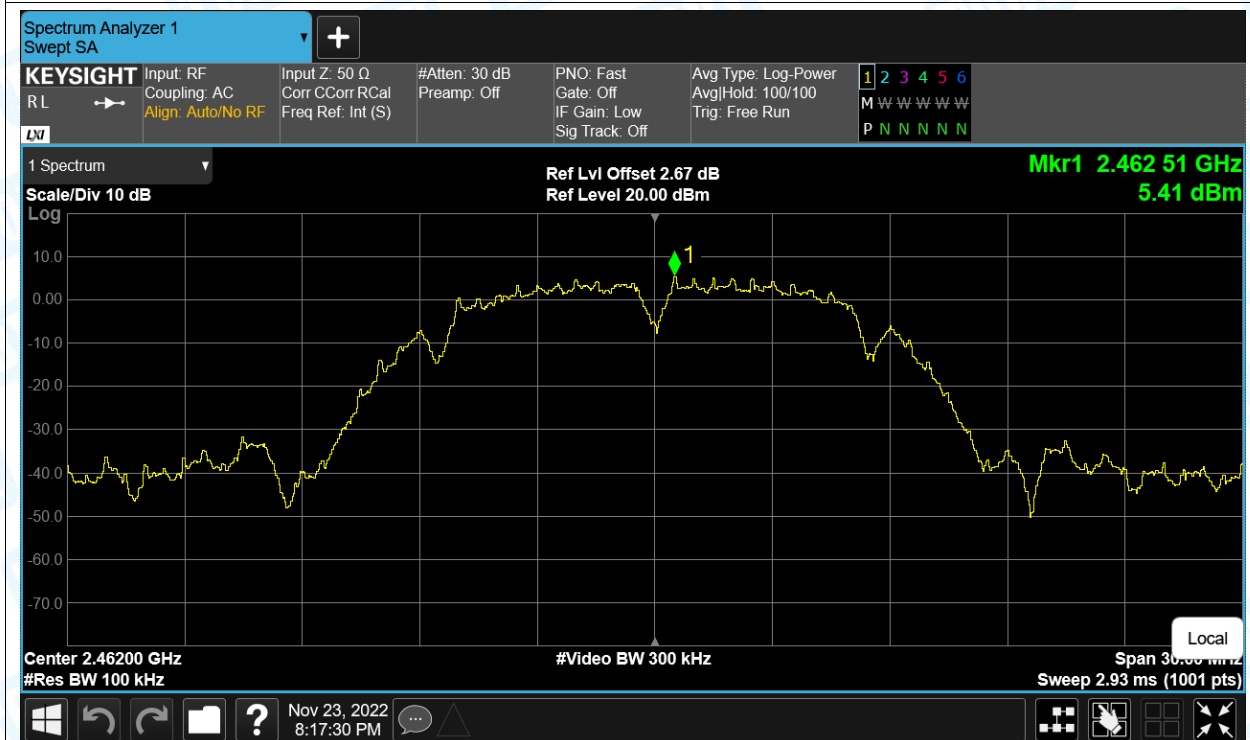
Band Edge NVNT b 2412MHz Ant1 Ref



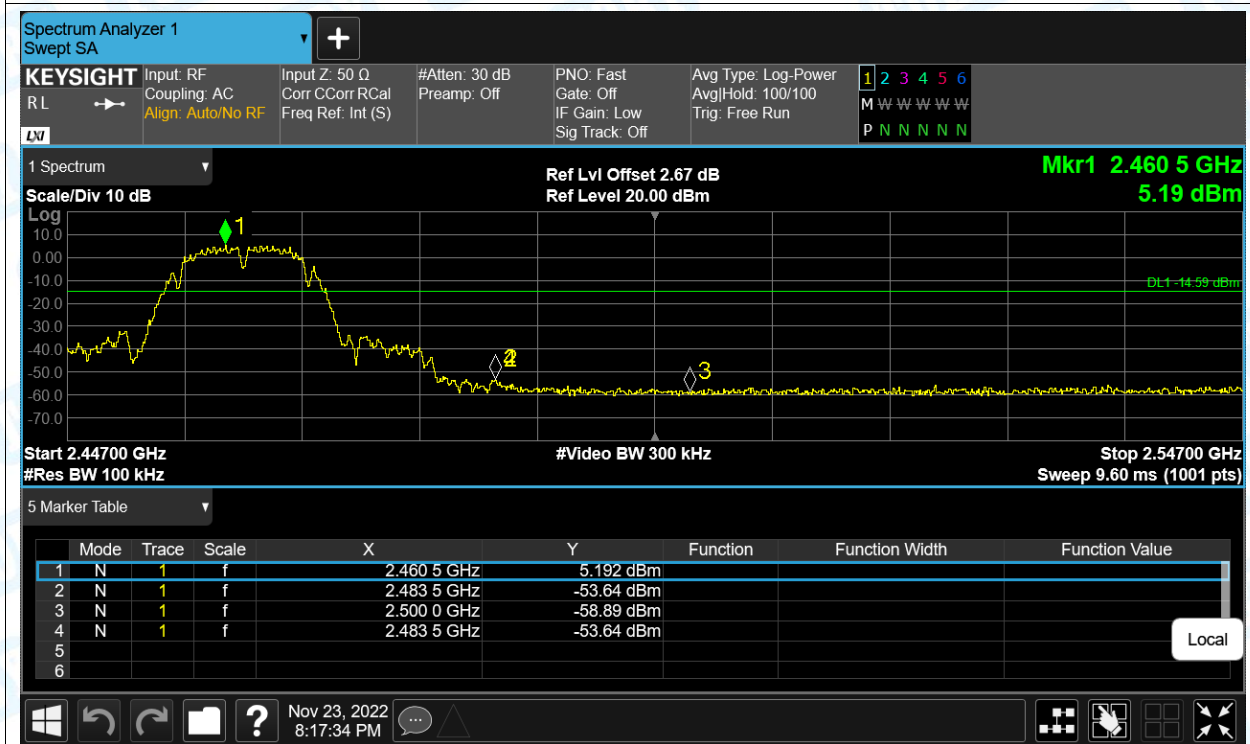
Band Edge NVNT b 2412MHz Ant1 Emission



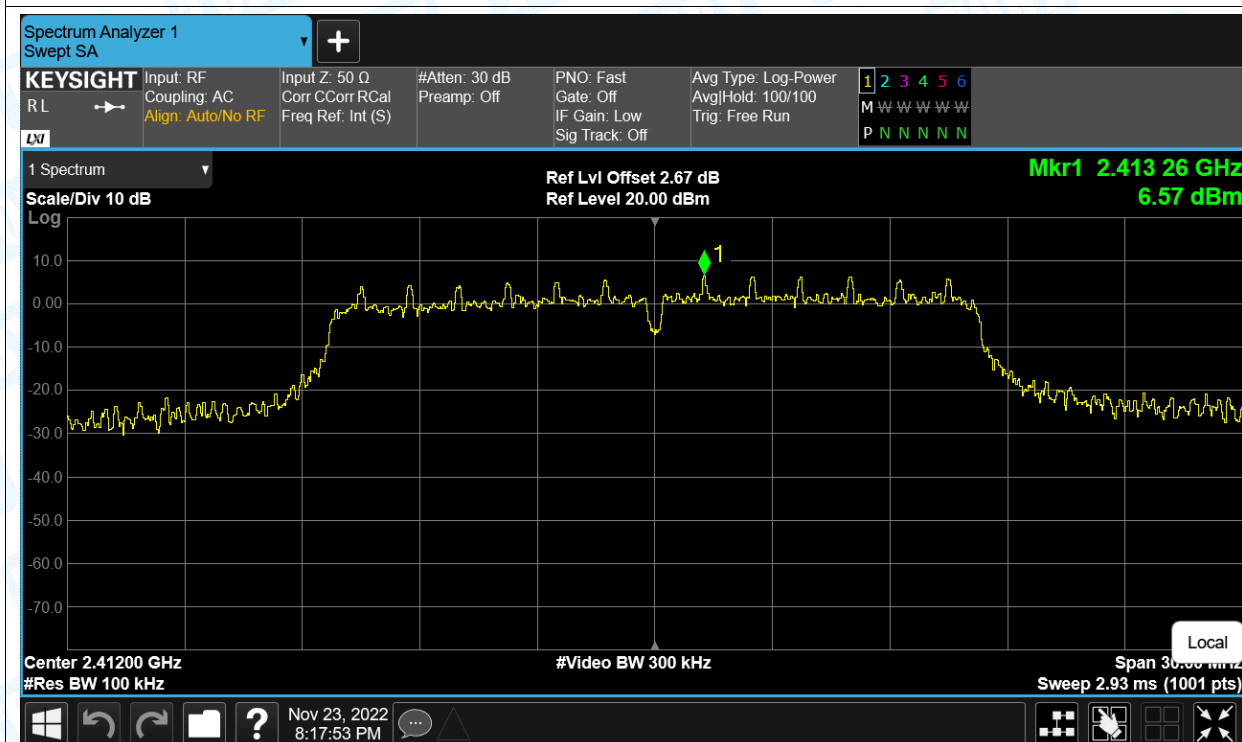
Band Edge NVNT b 2462MHz Ant1 Ref



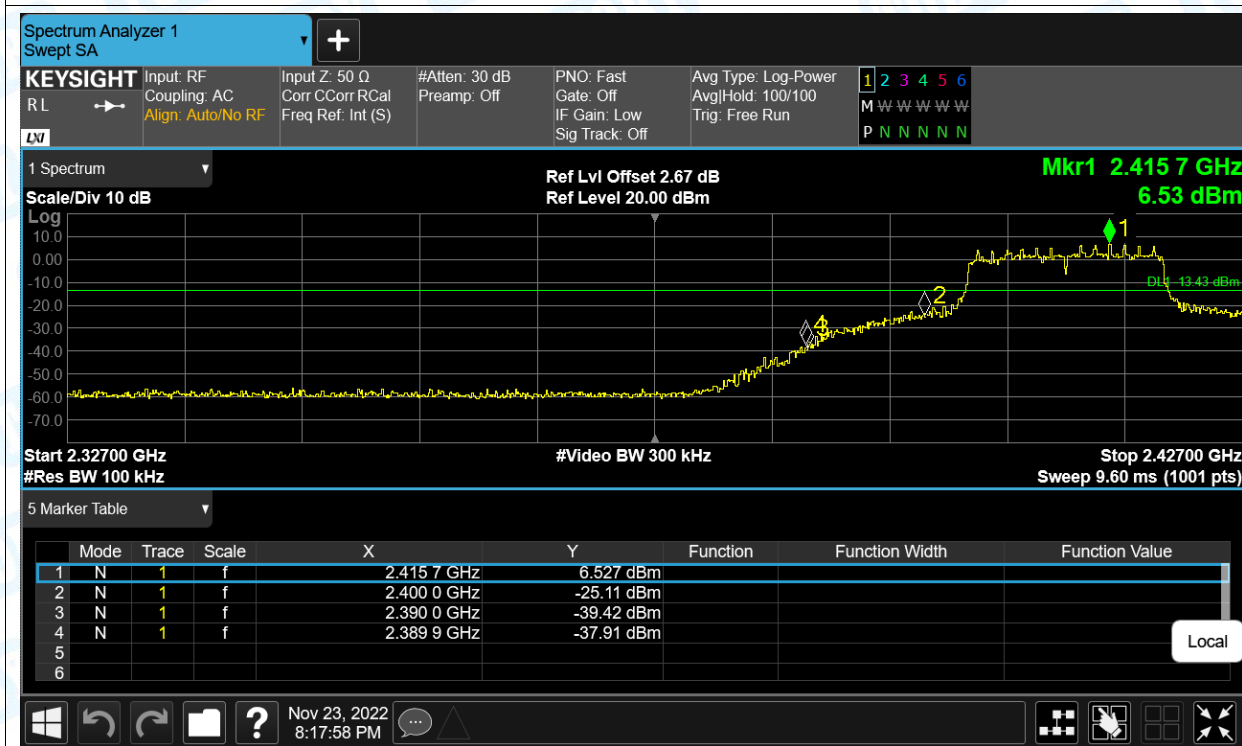
Band Edge NVNT b 2462MHz Ant1 Emission



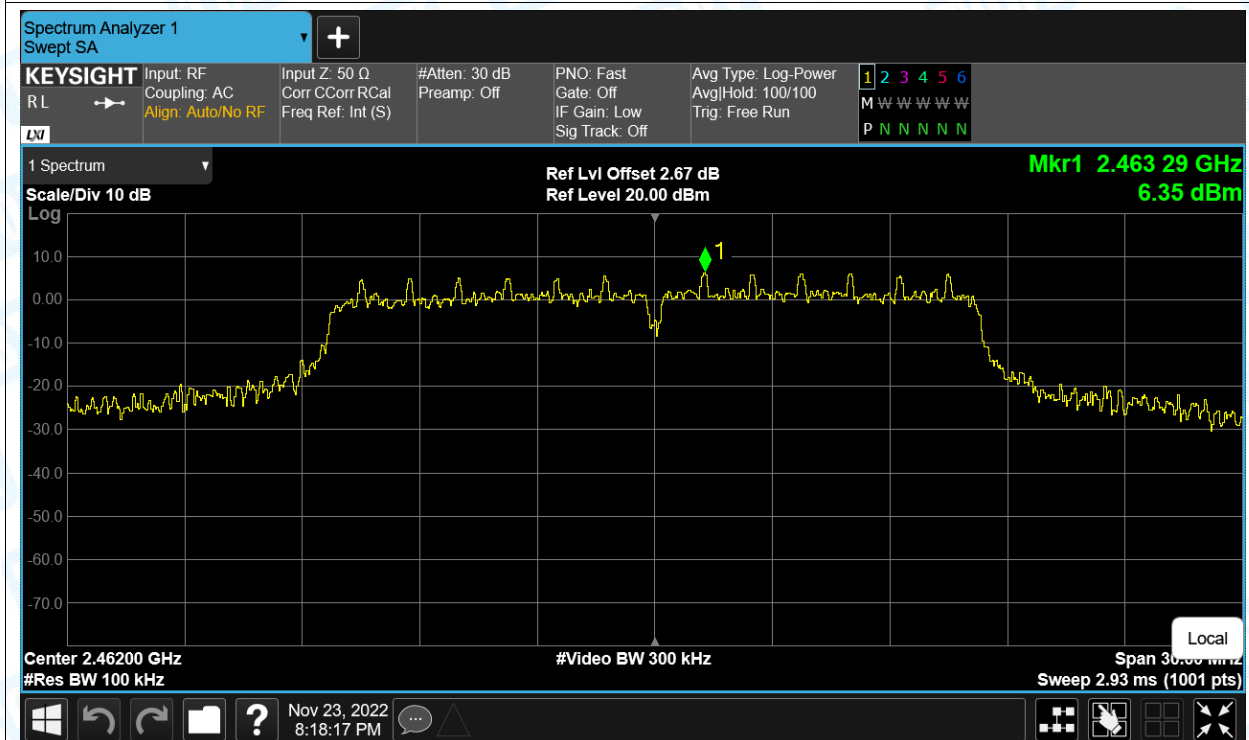
Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission

