

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	11" Tablet
Test Model:	100110027
Sample ID:	RW-C-202211-0265-10-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 3.8V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202211-0265-132	

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	99.64	0.02	0.12
NVNT	b	2437	Ant1	99.64	0.02	0.12
NVNT	b	2462	Ant1	99.64	0.02	0.12
NVNT	g	2412	Ant1	97.9	0.09	0.71
NVNT	g	2437	Ant1	97.2	0.12	0.72
NVNT	g	2462	Ant1	97.2	0.12	0.72
NVNT	n(HT20)	2412	Ant1	96.99	0.13	0.78
NVNT	n(HT20)	2437	Ant1	97.73	0.1	0.78
NVNT	n(HT20)	2462	Ant1	97.73	0.1	0.78
NVNT	n(HT40)	2422	Ant1	95.52	0.2	1.56
NVNT	n(HT40)	2437	Ant1	94.12	0.26	1.56
NVNT	n(HT40)	2452	Ant1	95.52	0.2	1.56

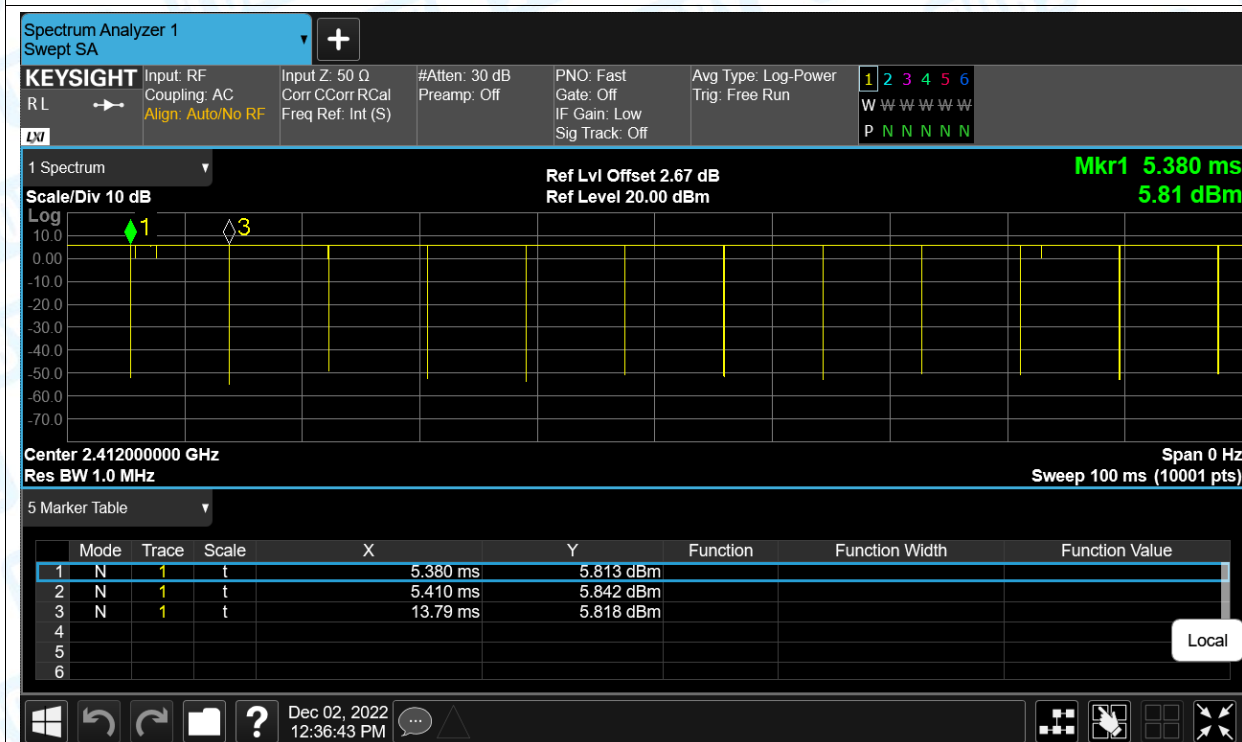
Note: Duty Cycle(%)=ON(ms)/(ON(ms)+OFF(ms))

ON(ms)=Maker3-Maker2

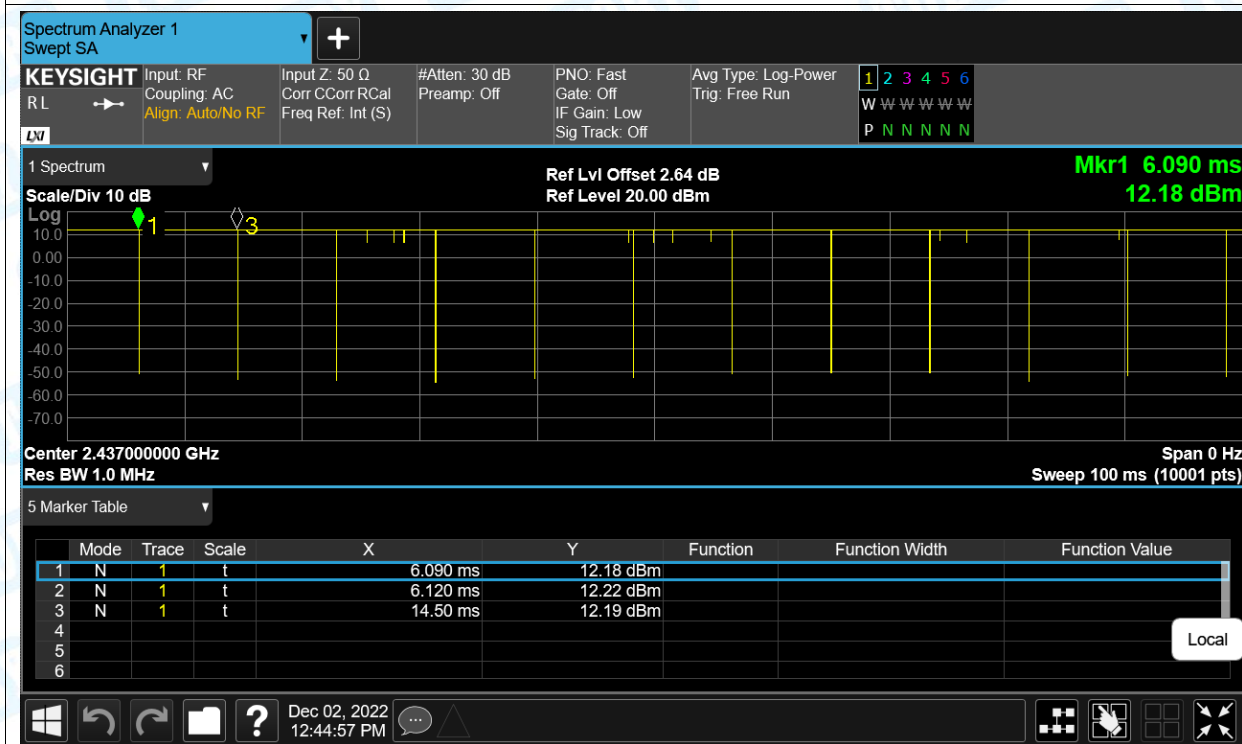
(ON(ms)+OFF(ms))=Maker3-Maker1

Test Graphs

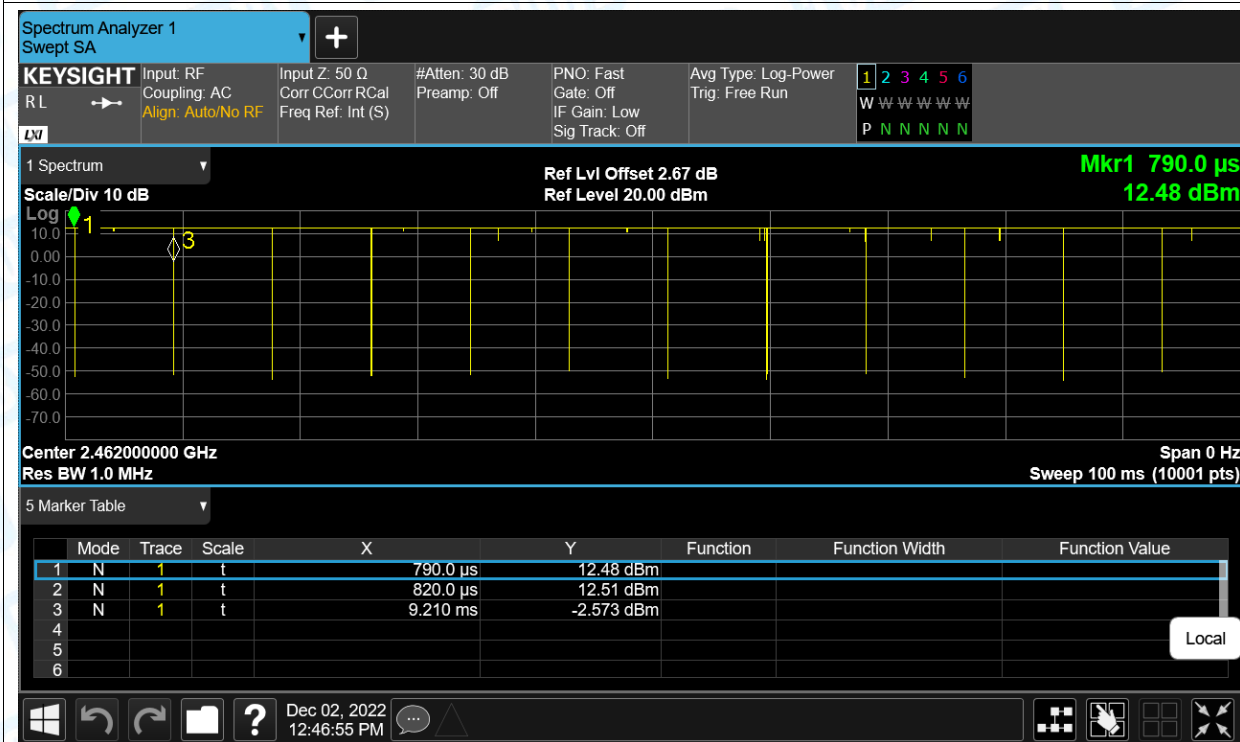
Duty Cycle NVNT b 2412MHz Ant1



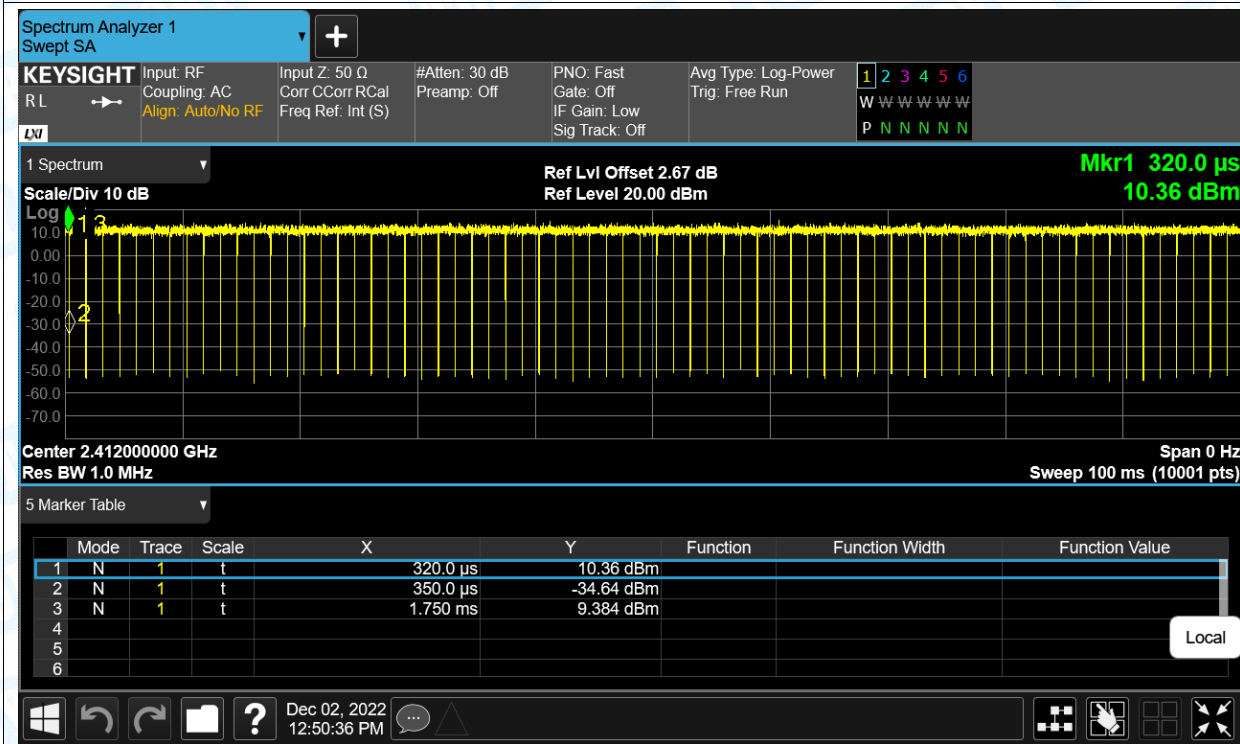
Duty Cycle NVNT b 2437MHz Ant1



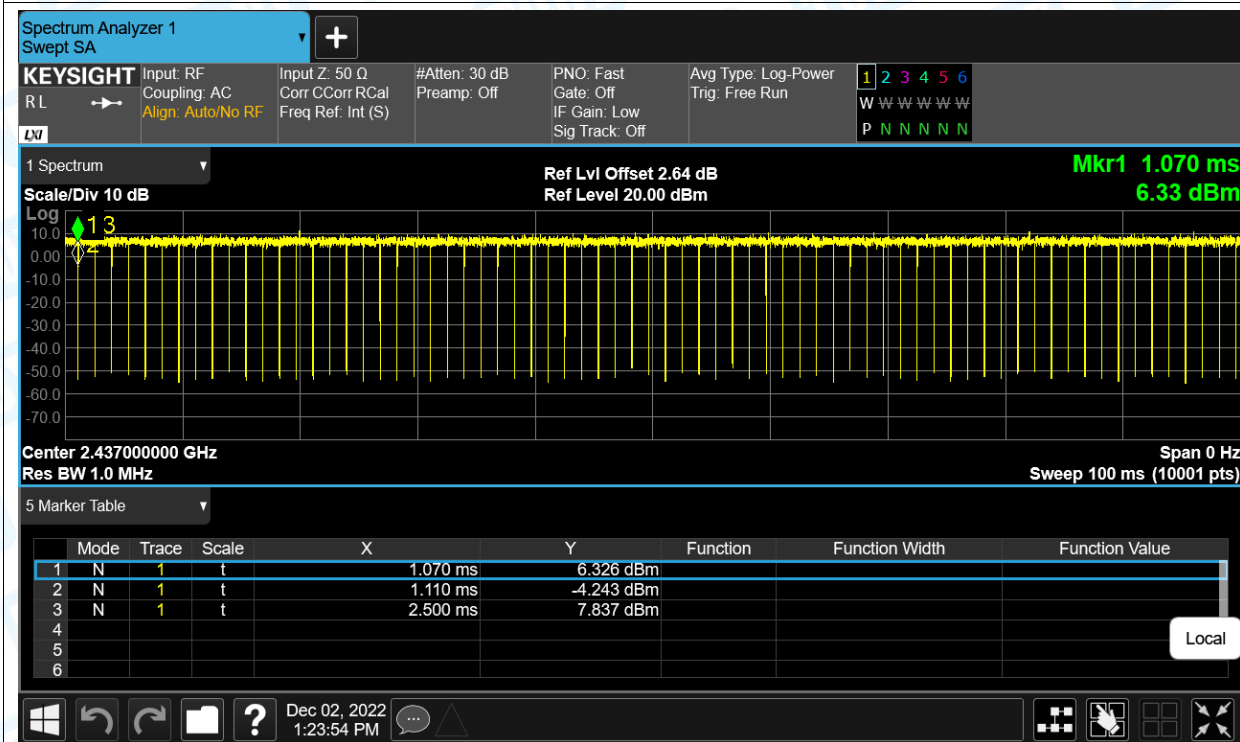
Duty Cycle NVNT b 2462MHz Ant1



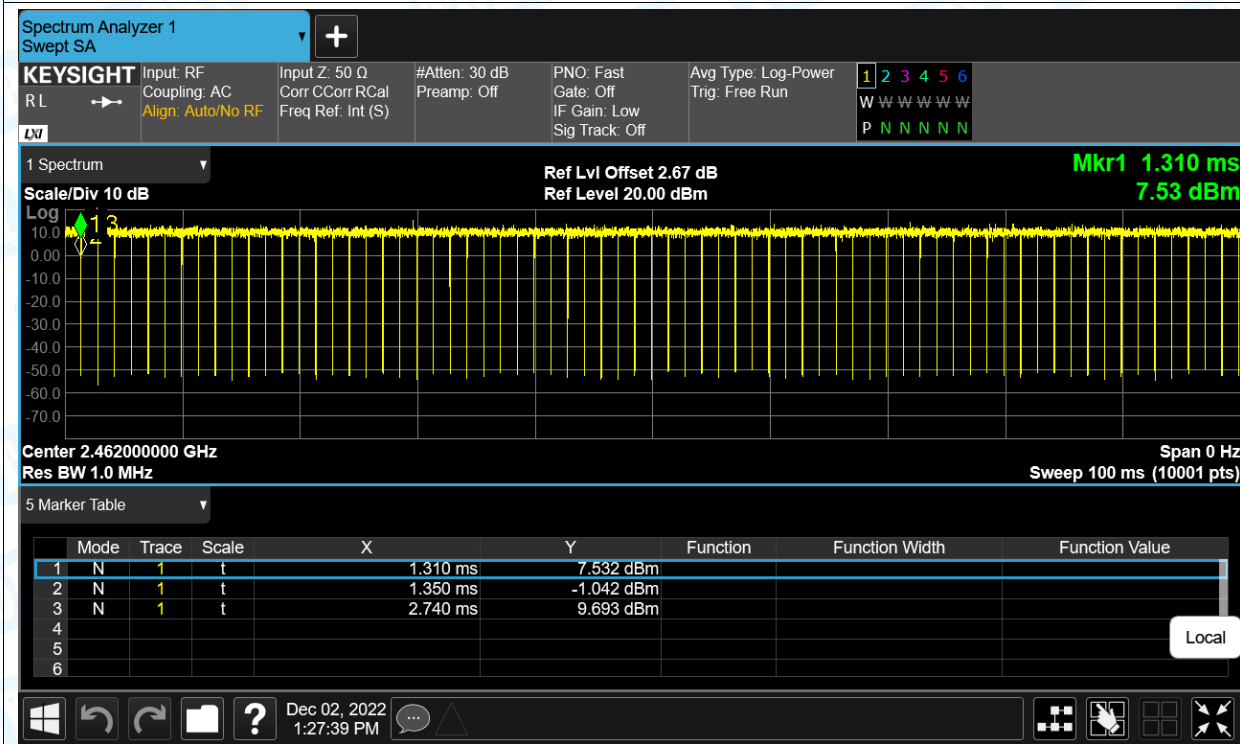
Duty Cycle NVNT g 2412MHz Ant1



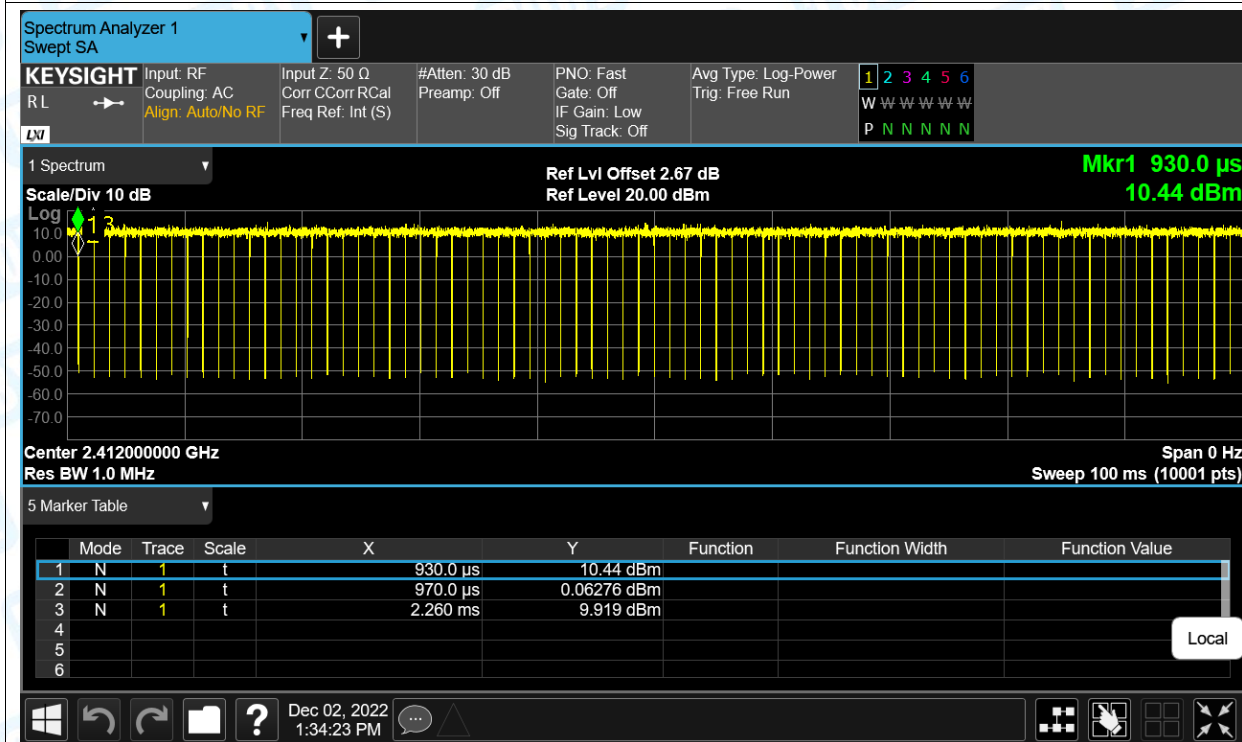
Duty Cycle NVNT g 2437MHz Ant1



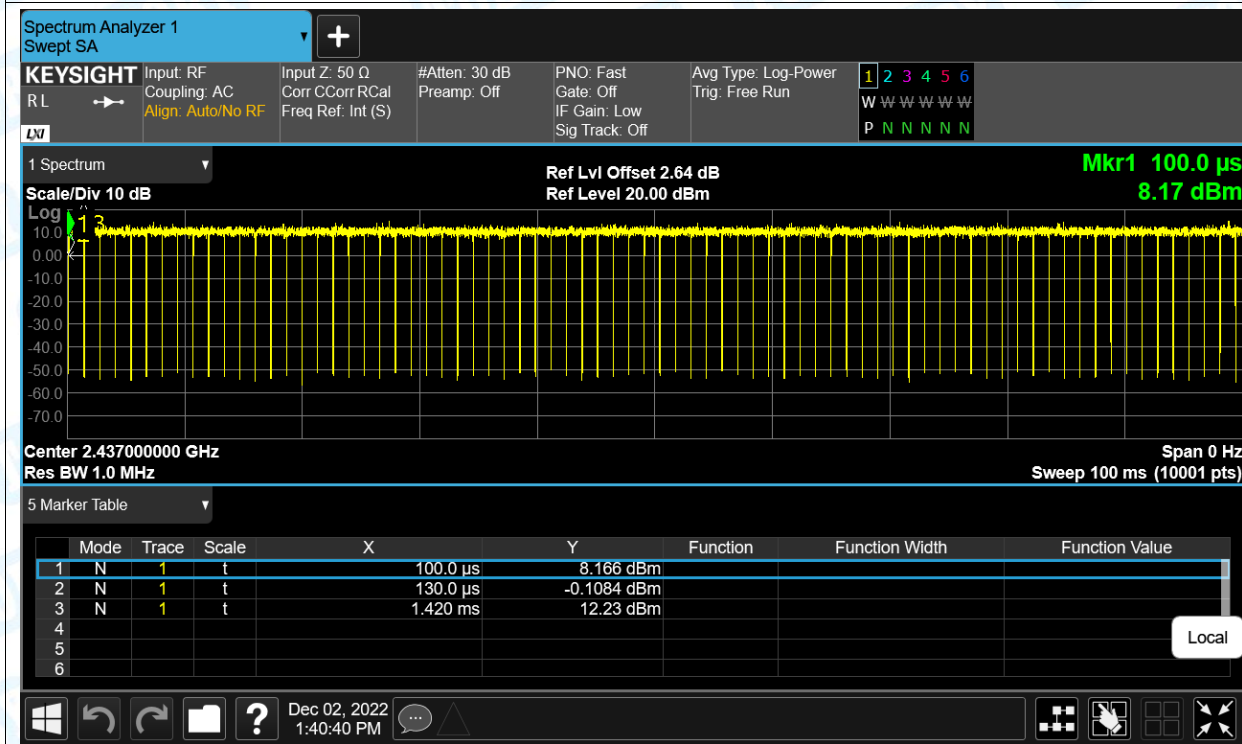
Duty Cycle NVNT g 2462MHz Ant1



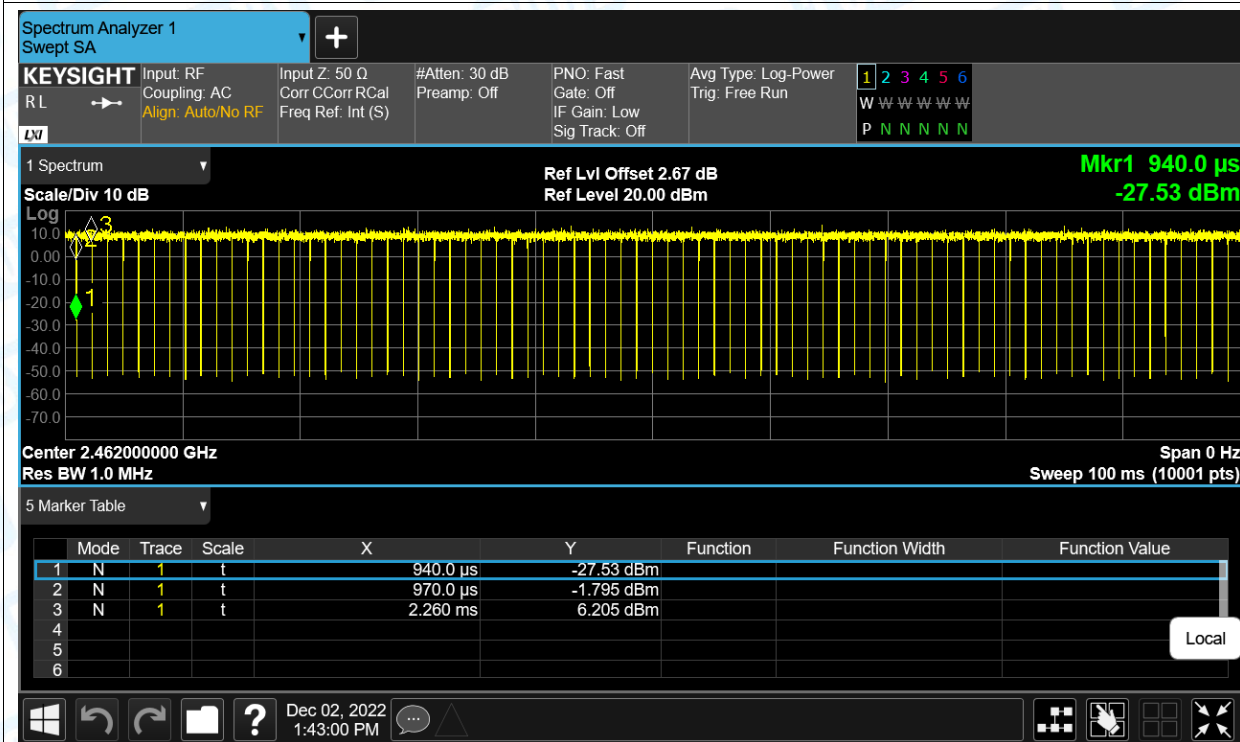
Duty Cycle NVNT n(HT20) 2412MHz Ant1



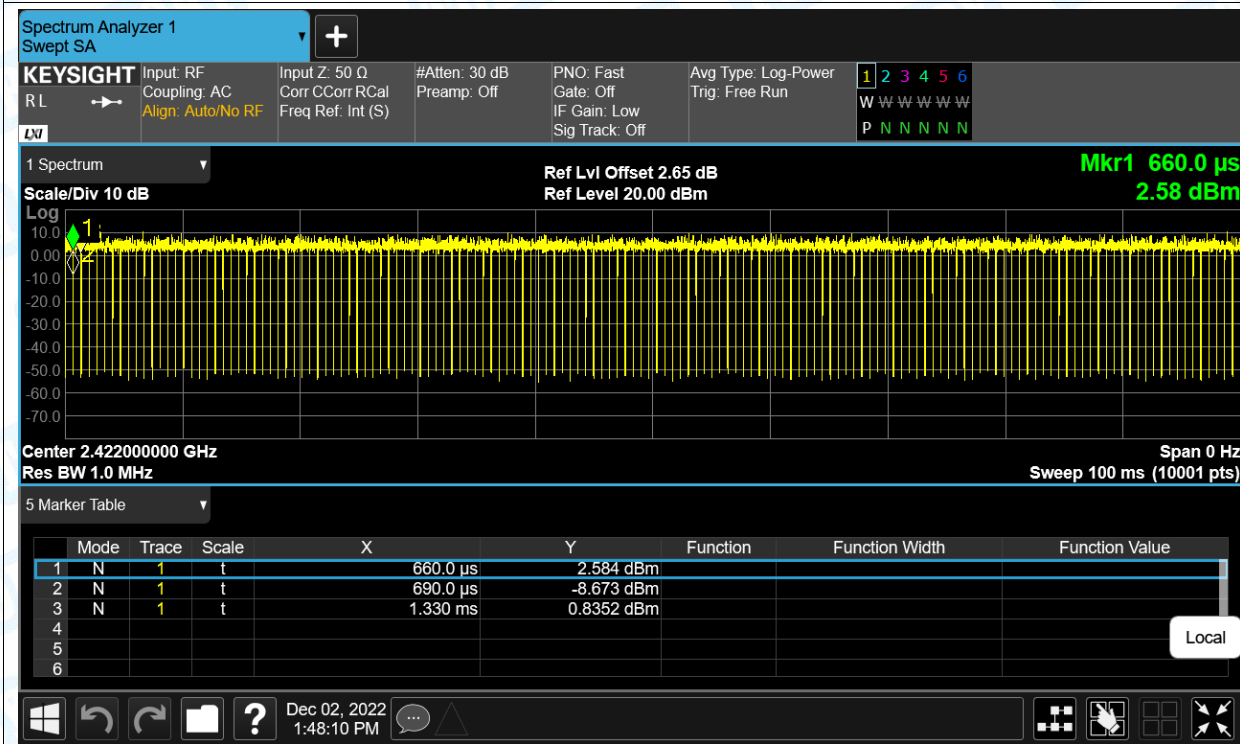
Duty Cycle NVNT n(HT20) 2437MHz Ant1



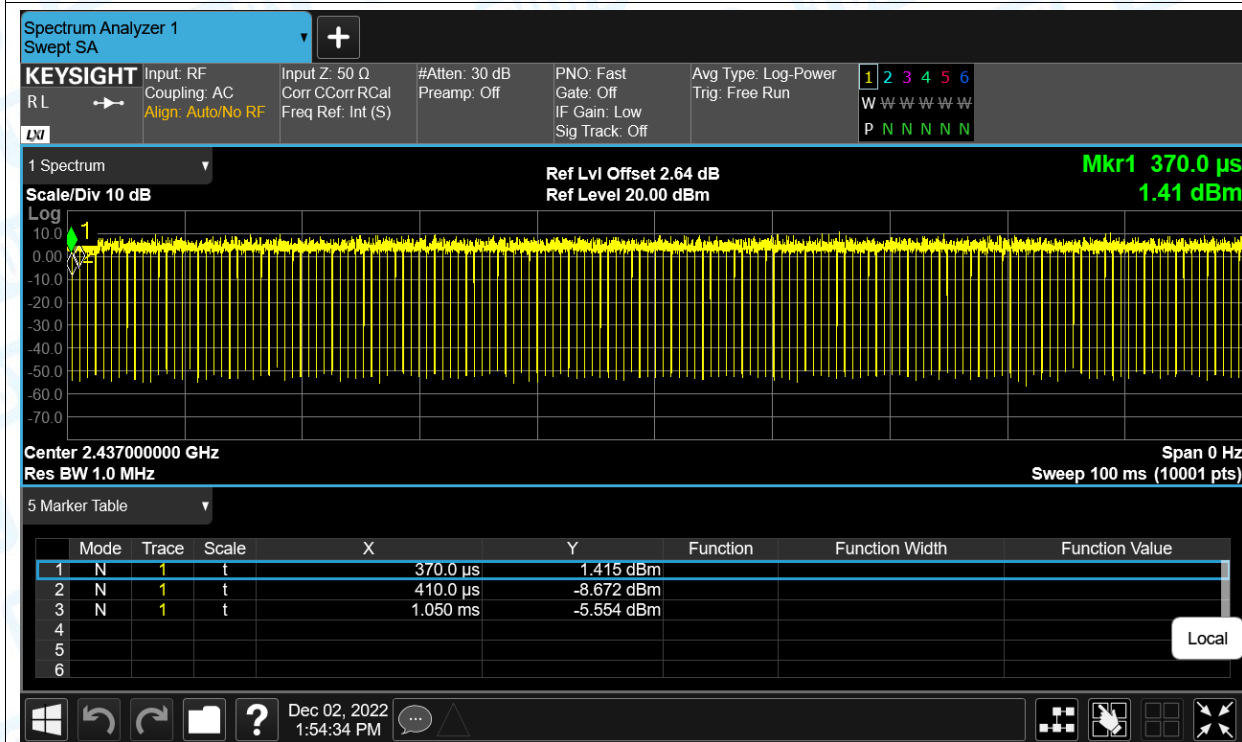
Duty Cycle NVNT n(HT20) 2462MHz Ant1



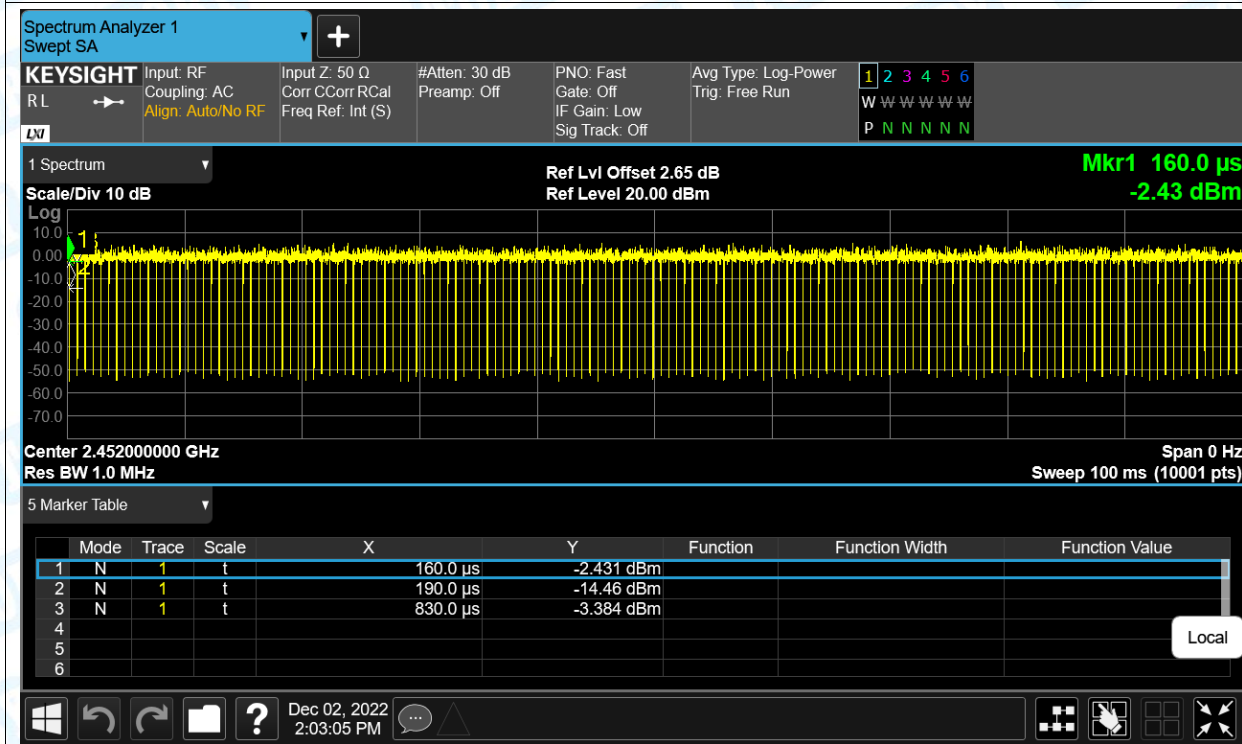
Duty Cycle NVNT n(HT40) 2422MHz Ant1



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	17.80	30	Pass
NVNT	b	2437	Ant1	17.56	30	Pass
NVNT	b	2462	Ant1	17.82	30	Pass
NVNT	g	2412	Ant1	13.84	30	Pass
NVNT	g	2437	Ant1	17.22	30	Pass
NVNT	g	2462	Ant1	14.86	30	Pass
NVNT	n(HT20)	2412	Ant1	12.74	30	Pass
NVNT	n(HT20)	2437	Ant1	17.20	30	Pass
NVNT	n(HT20)	2462	Ant1	13.84	30	Pass
NVNT	n(HT40)	2422	Ant1	10.93	30	Pass
NVNT	n(HT40)	2437	Ant1	17.33	30	Pass
NVNT	n(HT40)	2452	Ant1	12.03	30	Pass

Note: The Duty Cycle Factor and RBW Factor is compensated in the graph.

3. -6dB Bandwidth

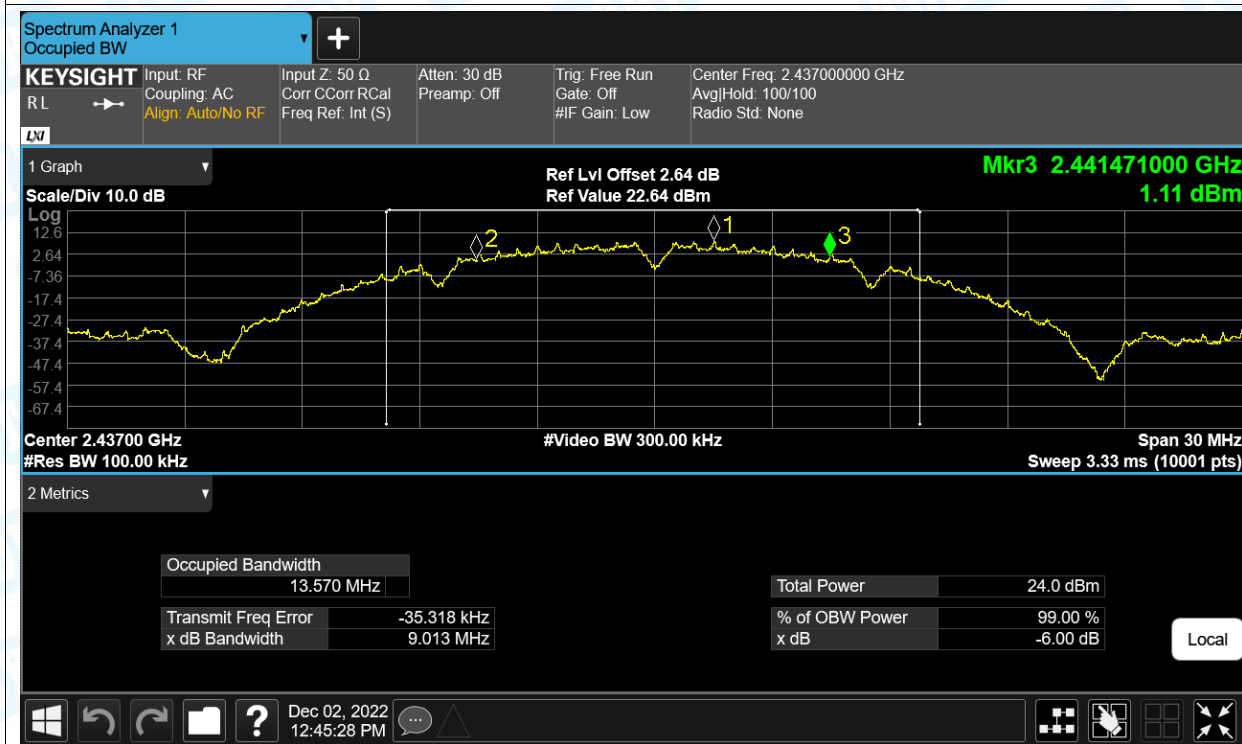
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.05	0.5	Pass
NVNT	b	2437	Ant1	9.01	0.5	Pass
NVNT	b	2462	Ant1	9.04	0.5	Pass
NVNT	g	2412	Ant1	15.09	0.5	Pass
NVNT	g	2437	Ant1	15.09	0.5	Pass
NVNT	g	2462	Ant1	14.80	0.5	Pass
NVNT	n(HT20)	2412	Ant1	15.11	0.5	Pass
NVNT	n(HT20)	2437	Ant1	16.01	0.5	Pass
NVNT	n(HT20)	2462	Ant1	15.73	0.5	Pass
NVNT	n(HT40)	2422	Ant1	33.87	0.5	Pass
NVNT	n(HT40)	2437	Ant1	33.83	0.5	Pass
NVNT	n(HT40)	2452	Ant1	32.55	0.5	Pass

Test Graphs

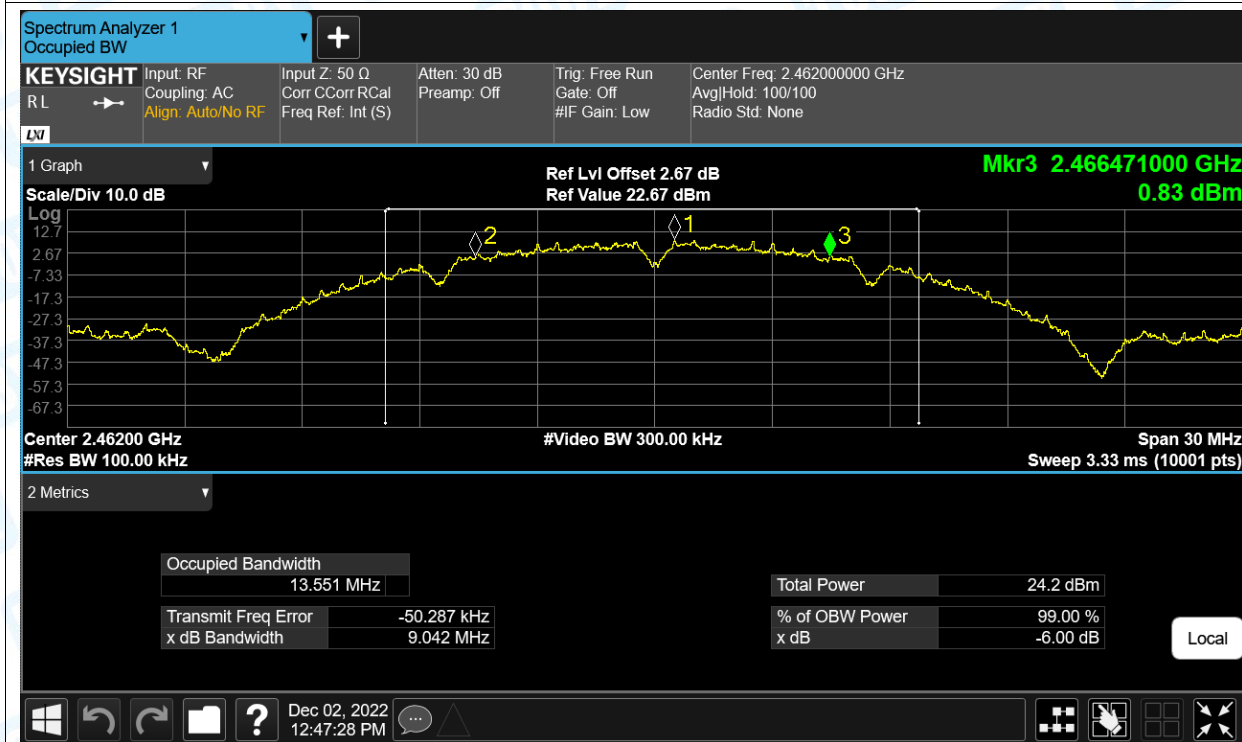
-6dB Bandwidth NVNT b 2412MHz Ant1



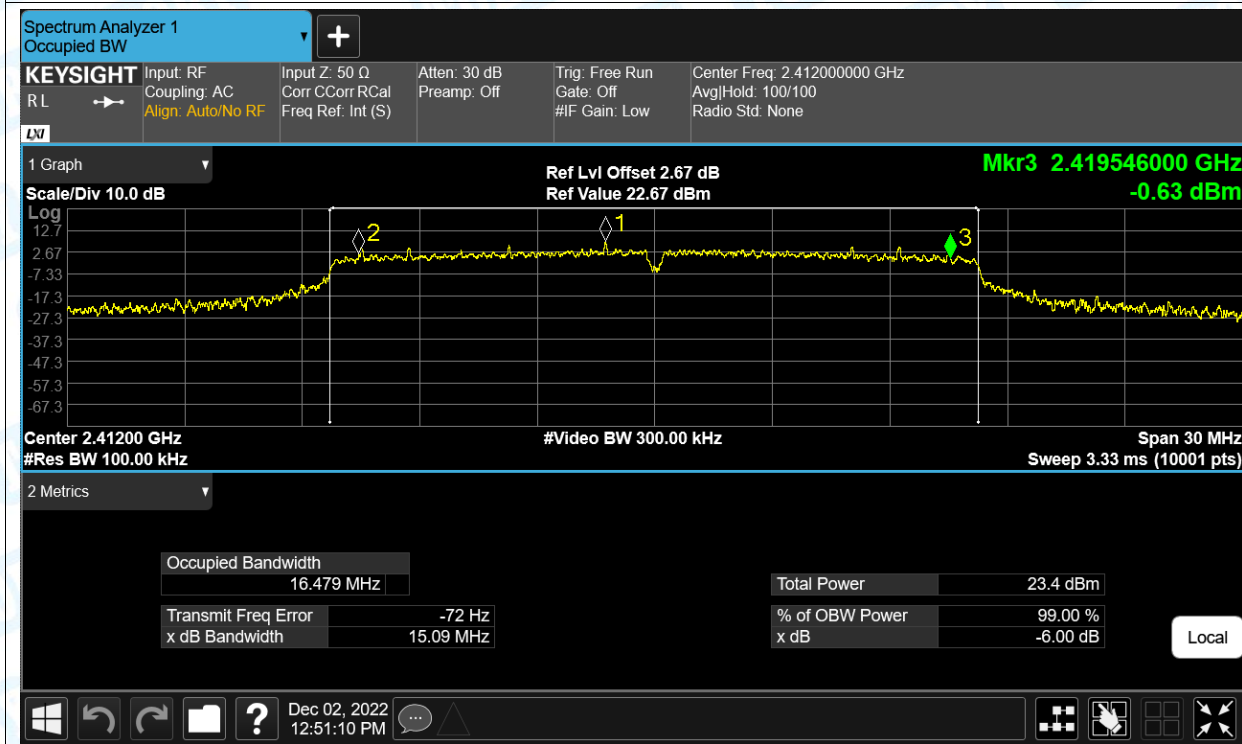
-6dB Bandwidth NVNT b 2437MHz Ant1



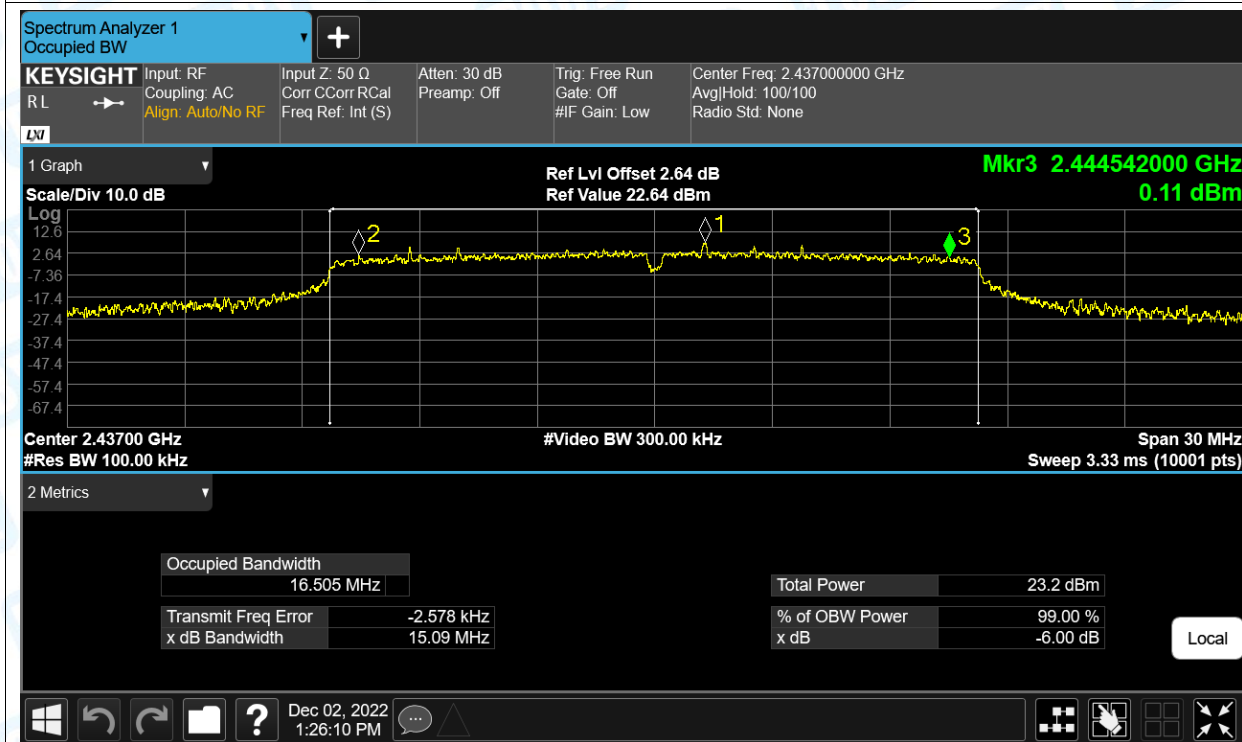
-6dB Bandwidth NVNT b 2462MHz Ant1



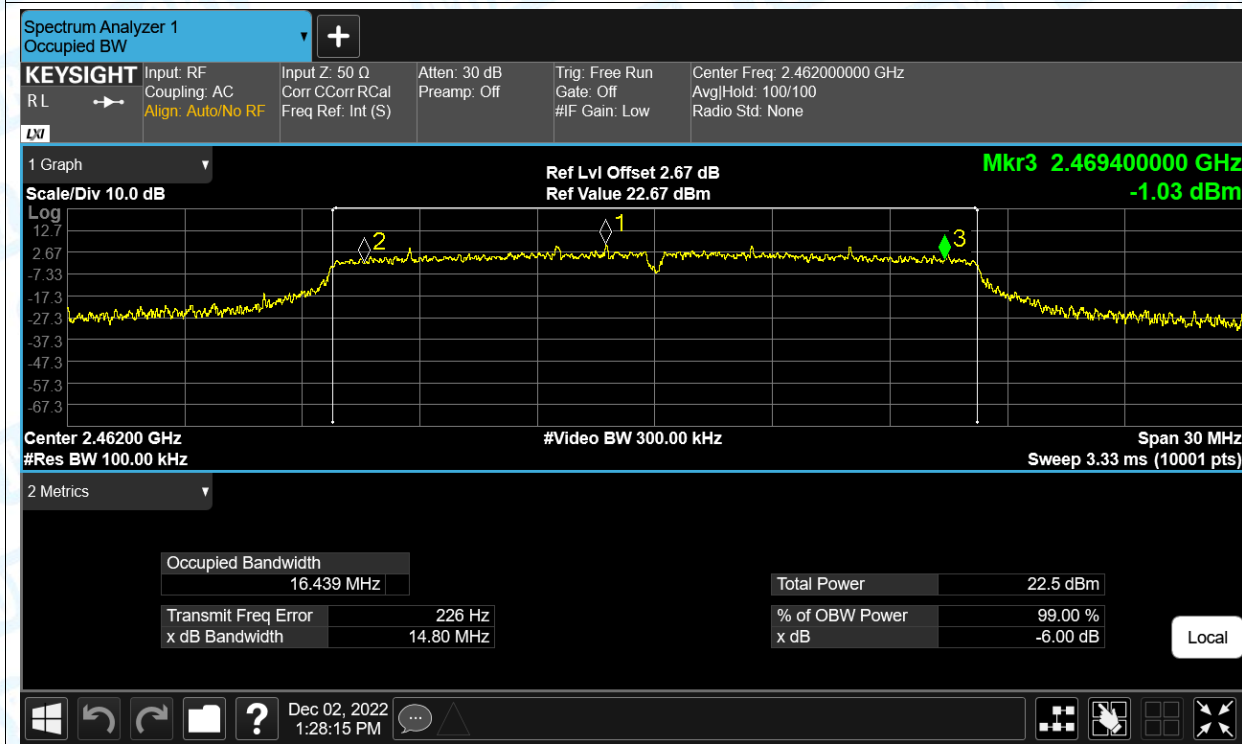
-6dB Bandwidth NVNT g 2412MHz Ant1



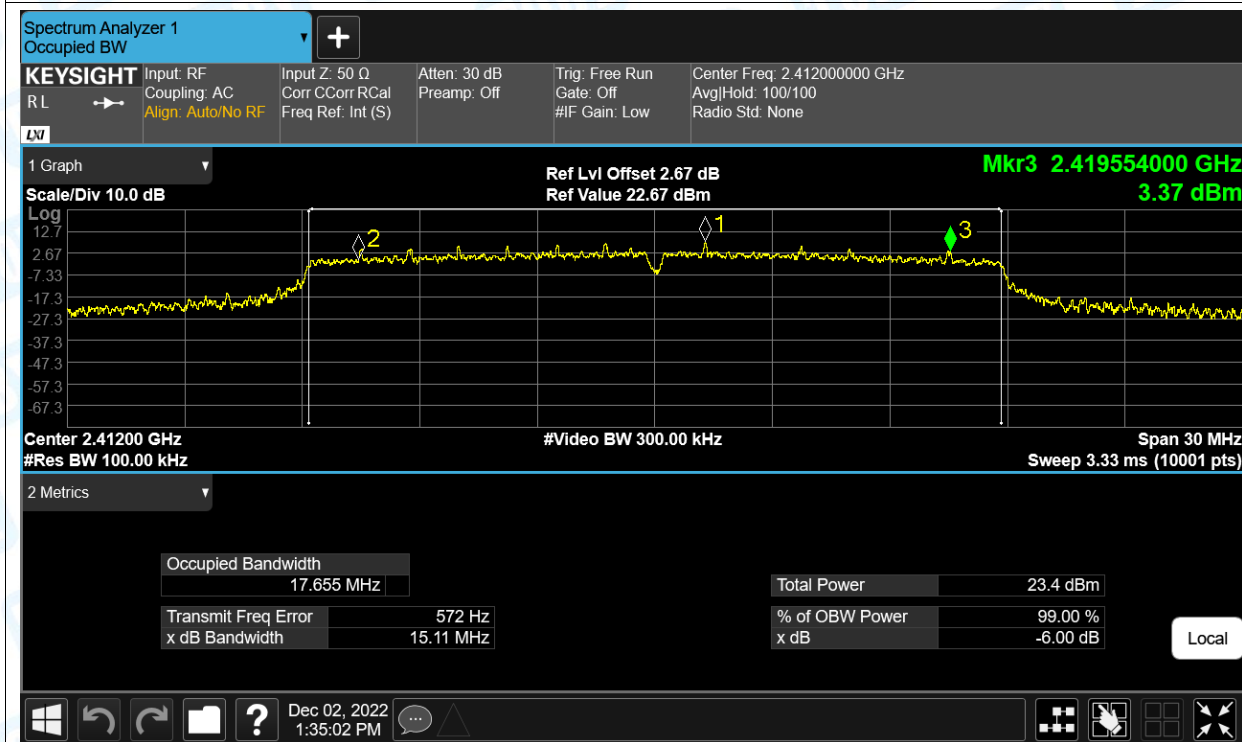
-6dB Bandwidth NVNT g 2437MHz Ant1



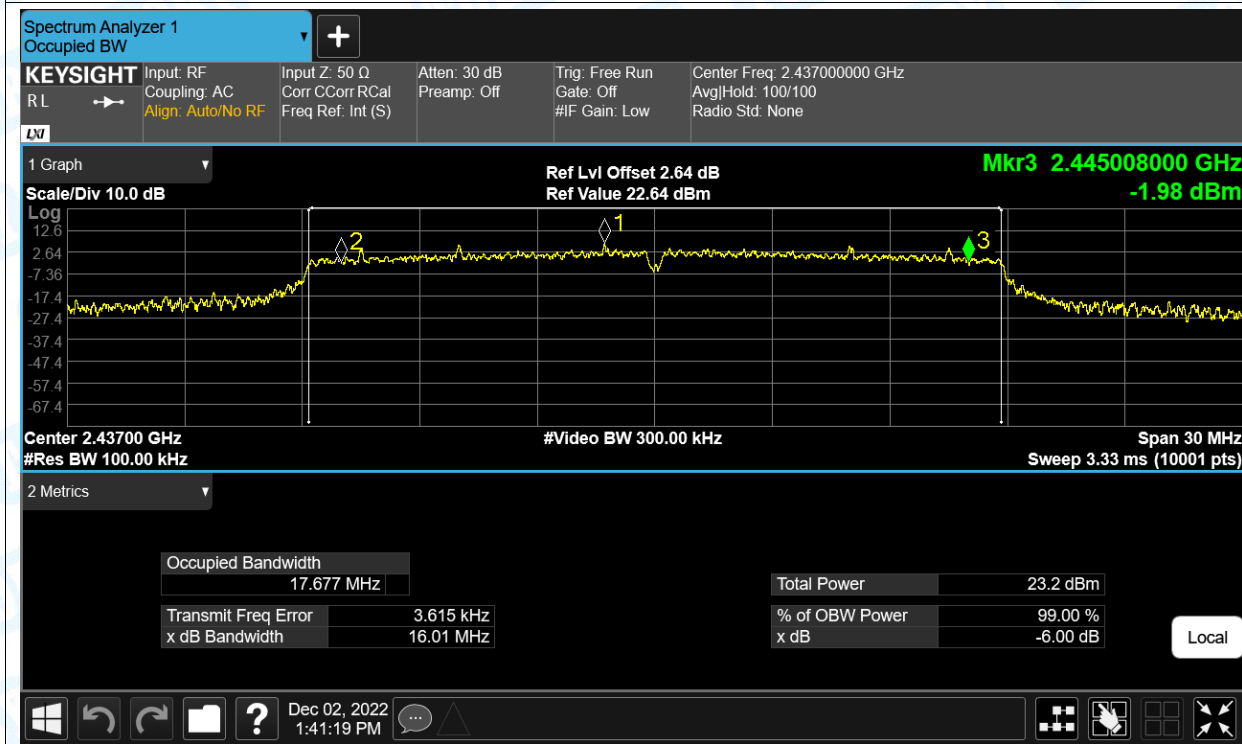
-6dB Bandwidth NVNT g 2462MHz Ant1



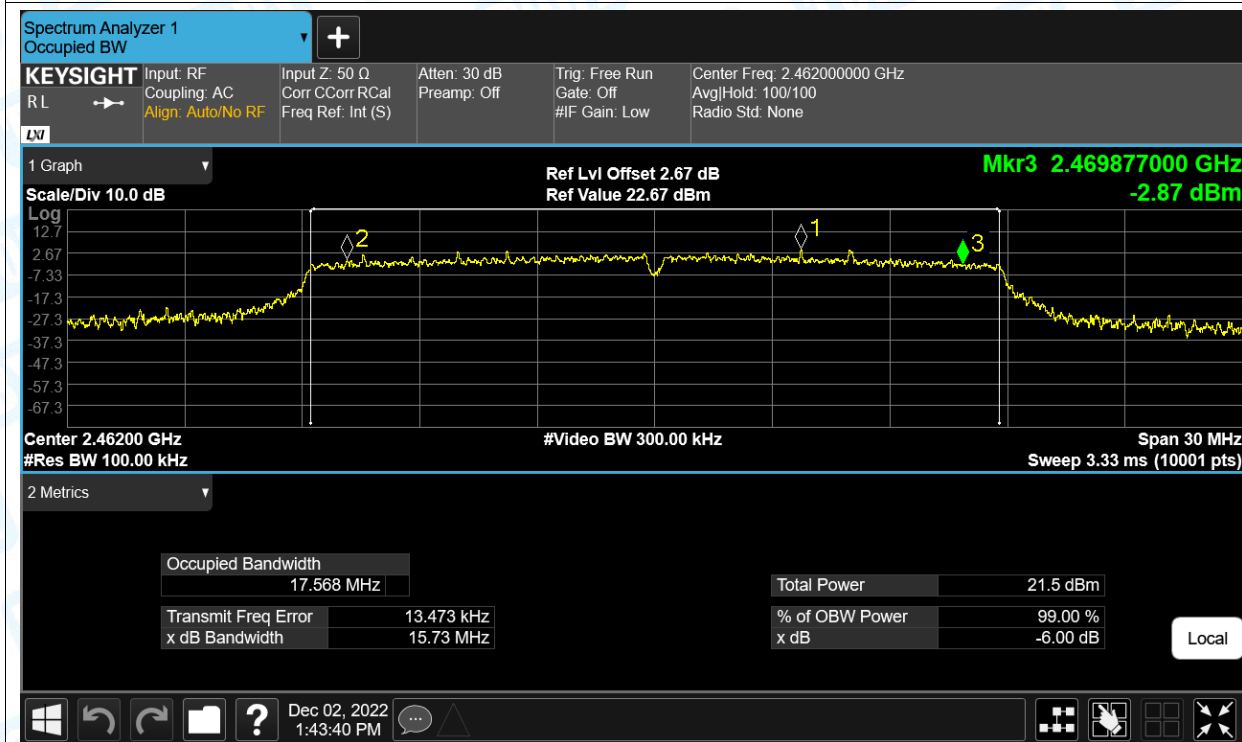
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



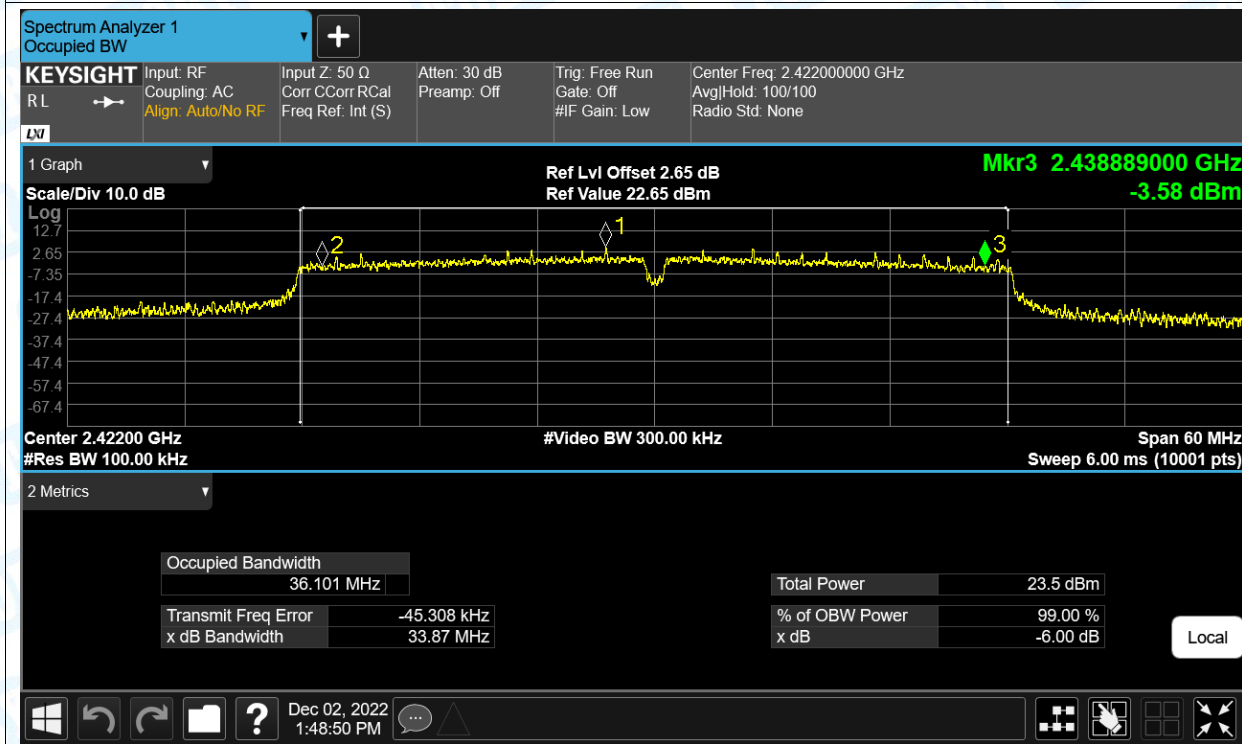
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



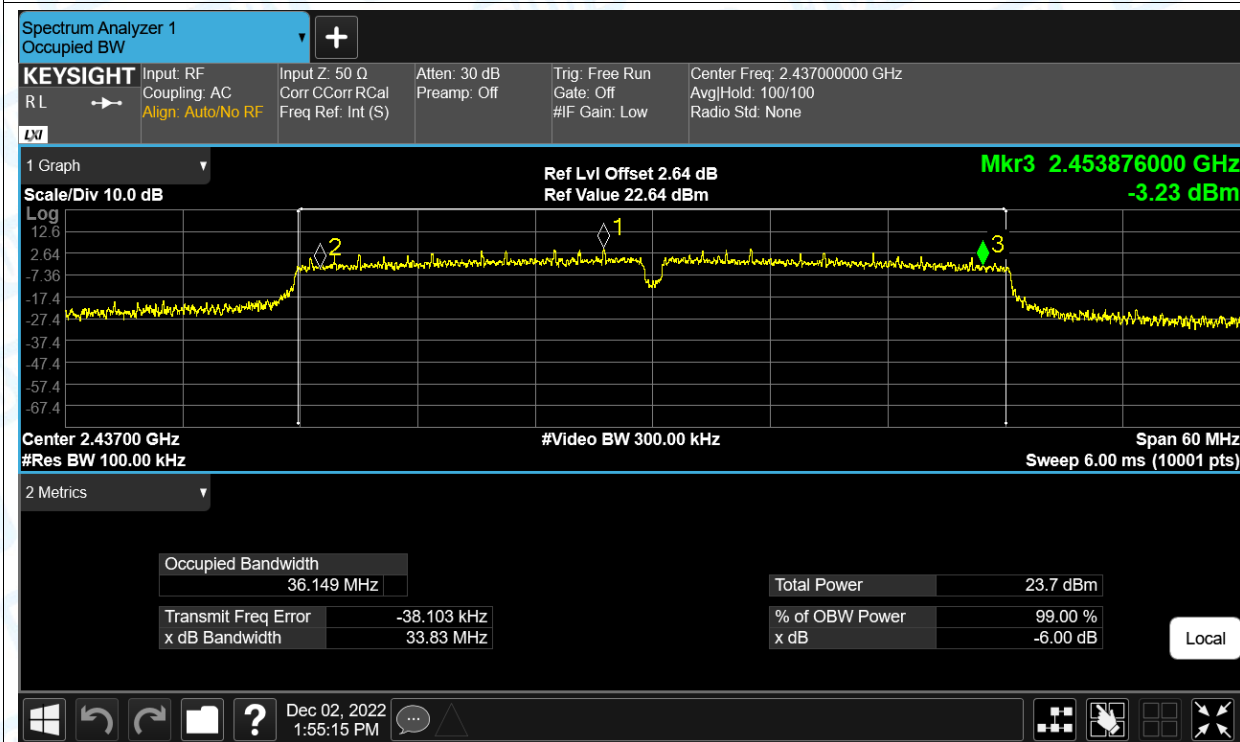
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



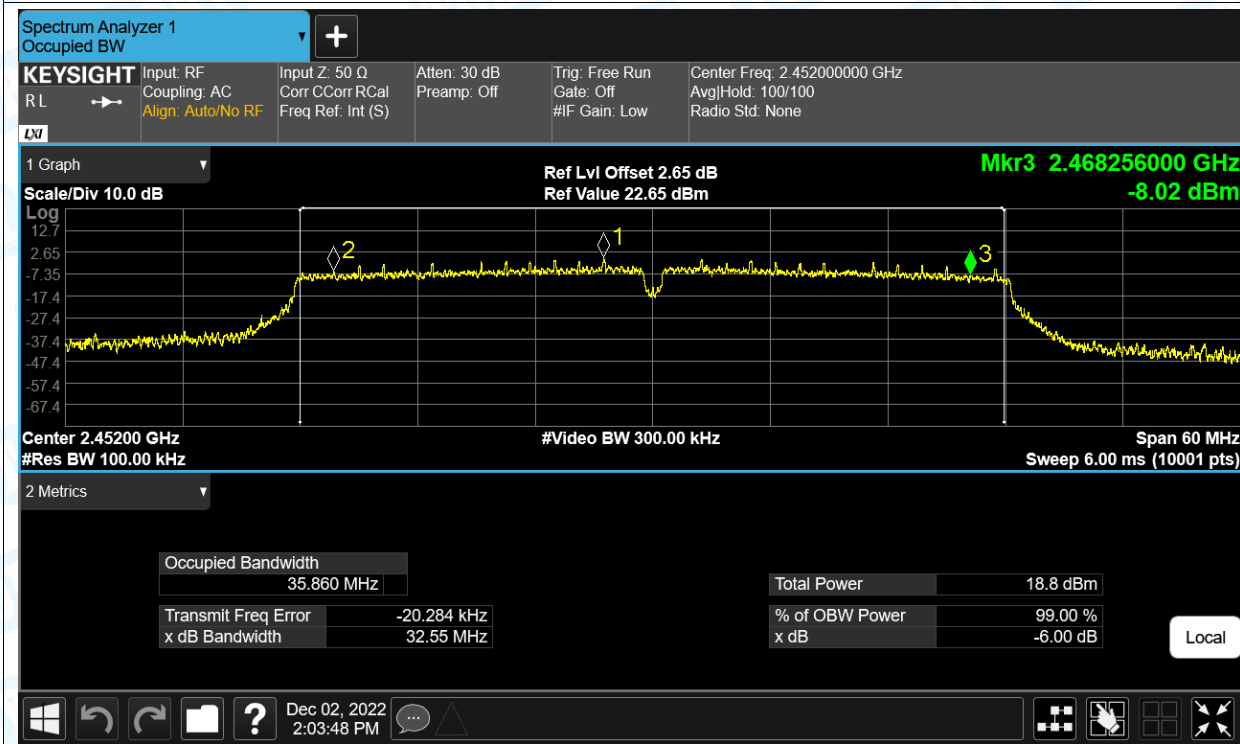
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

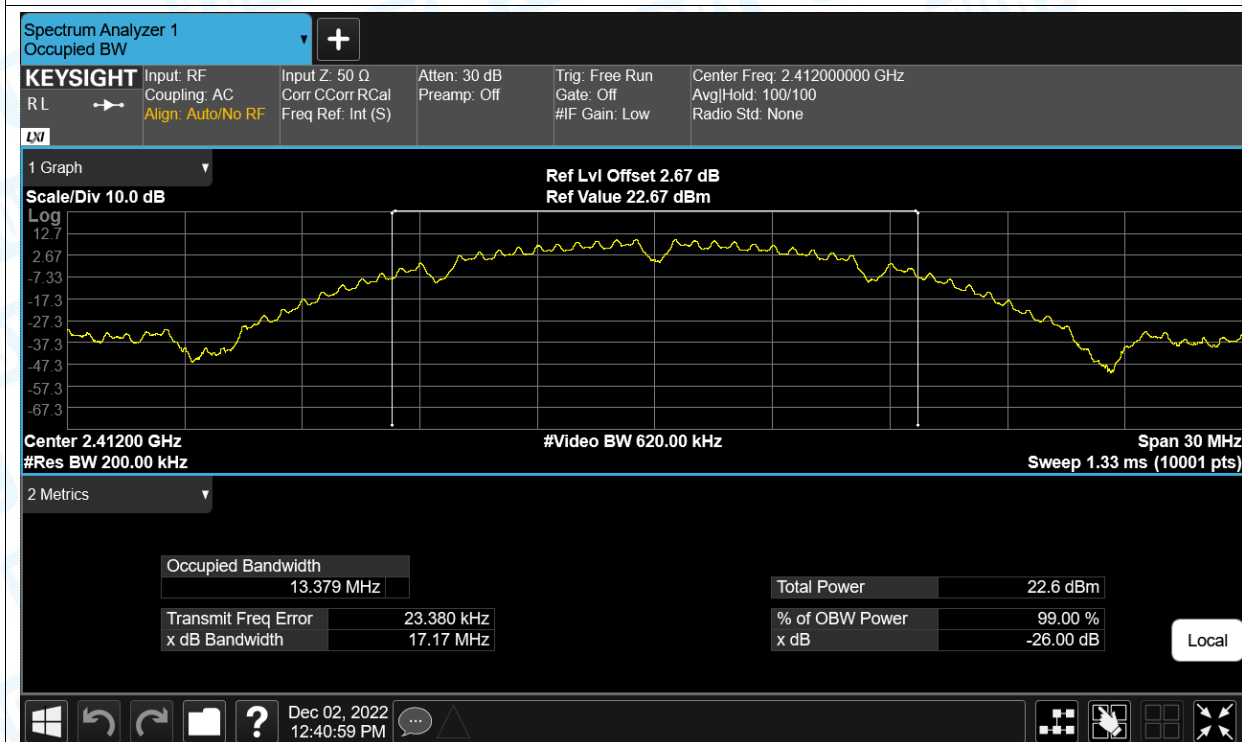


4. Occupied Channel Bandwidth

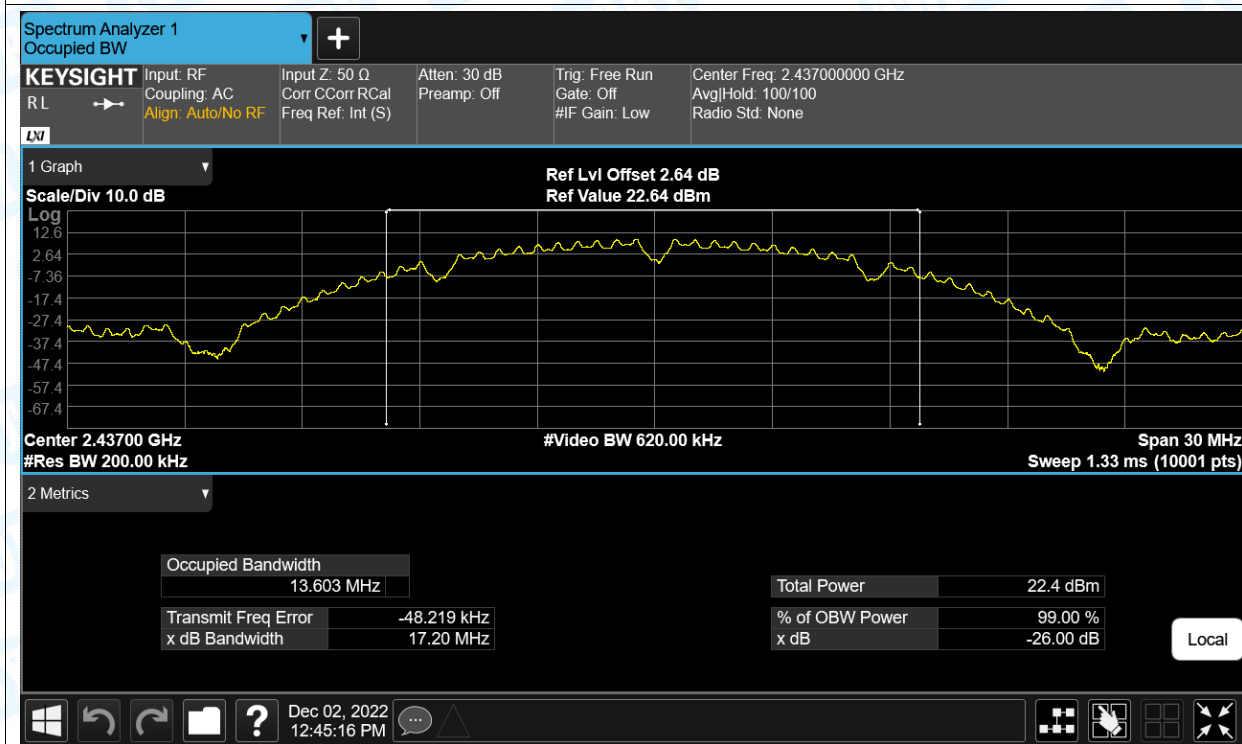
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.379
NVNT	b	2437	Ant1	13.603
NVNT	b	2462	Ant1	13.508
NVNT	g	2412	Ant1	16.643
NVNT	g	2437	Ant1	16.634
NVNT	g	2462	Ant1	16.545
NVNT	n(HT20)	2412	Ant1	17.738
NVNT	n(HT20)	2437	Ant1	17.719
NVNT	n(HT20)	2462	Ant1	17.632
NVNT	n(HT40)	2422	Ant1	36.269
NVNT	n(HT40)	2437	Ant1	36.3
NVNT	n(HT40)	2452	Ant1	36.003

Test Graphs

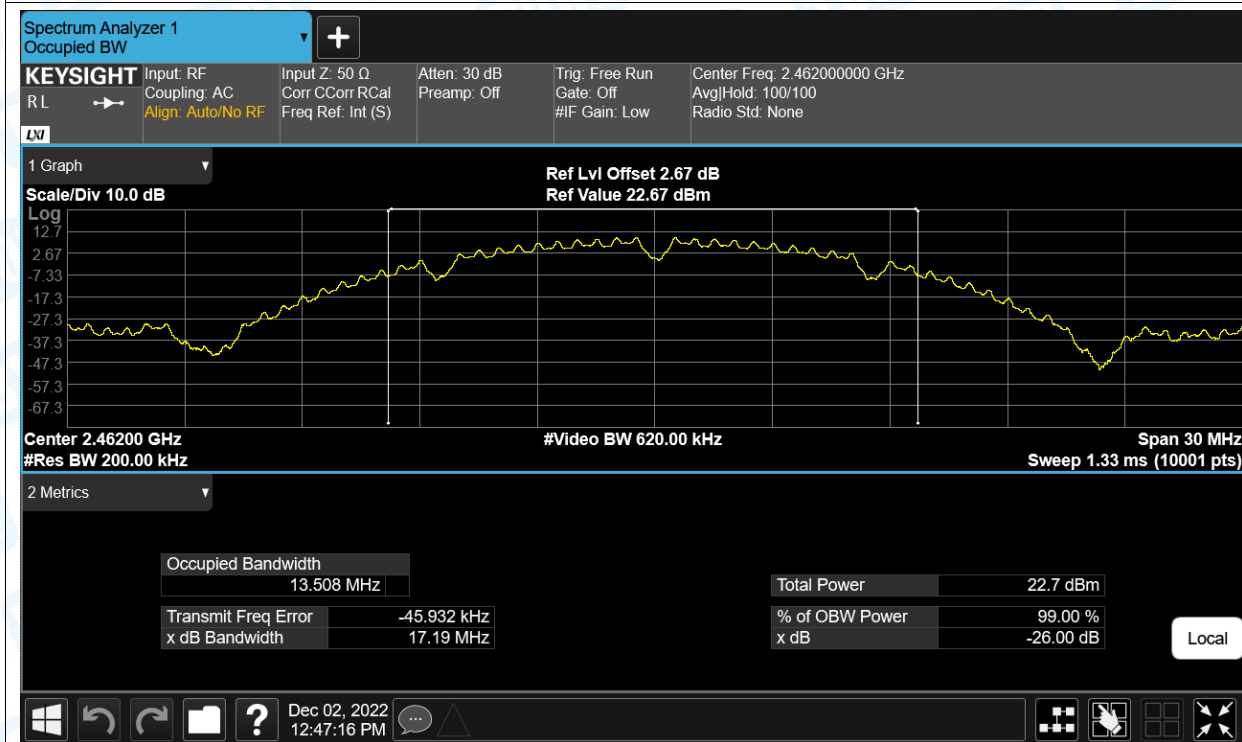
OBW NVNT b 2412MHz Ant1



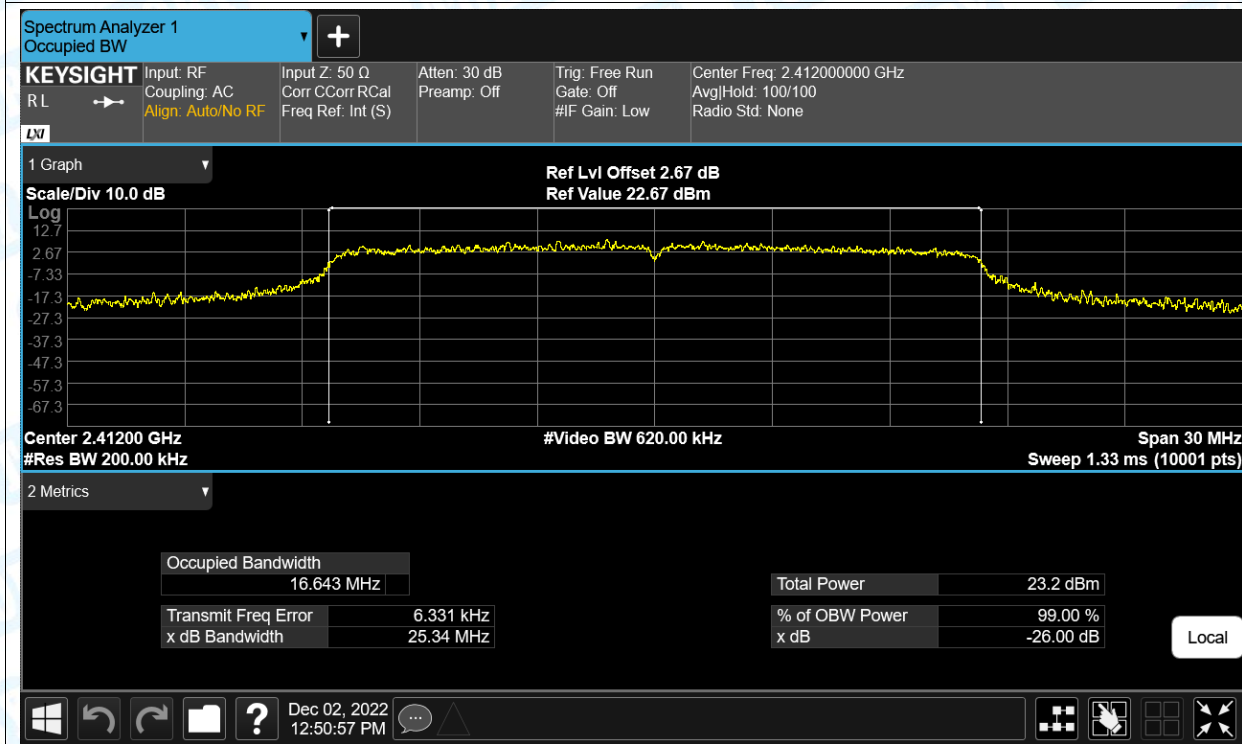
OBW NVNT b 2437MHz Ant1



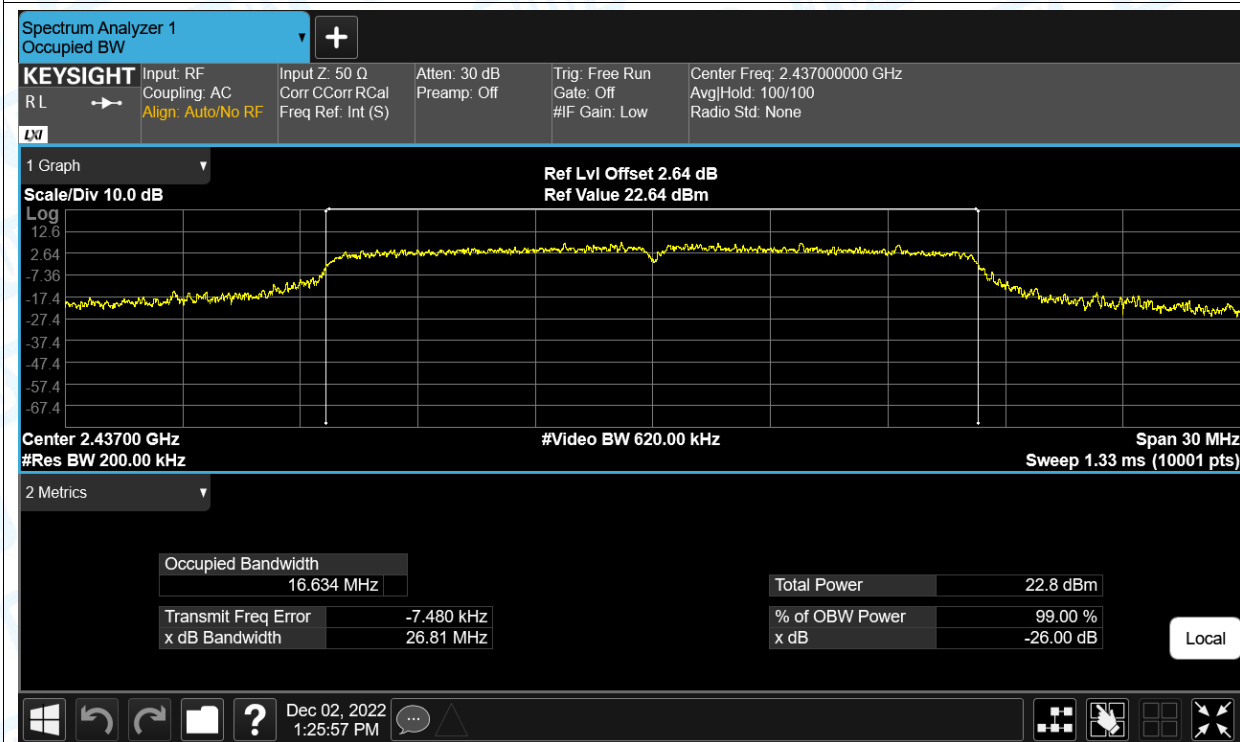
OBW NVNT b 2462MHz Ant1



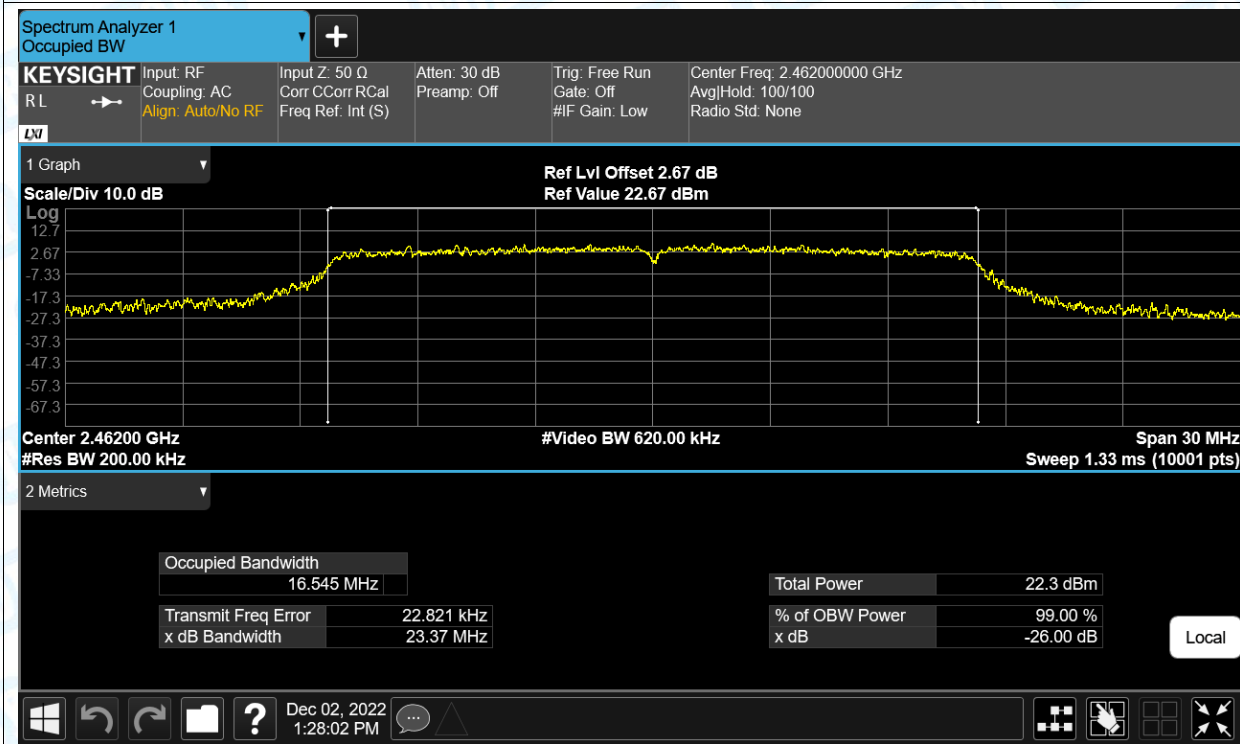
OBW NVNT g 2412MHz Ant1



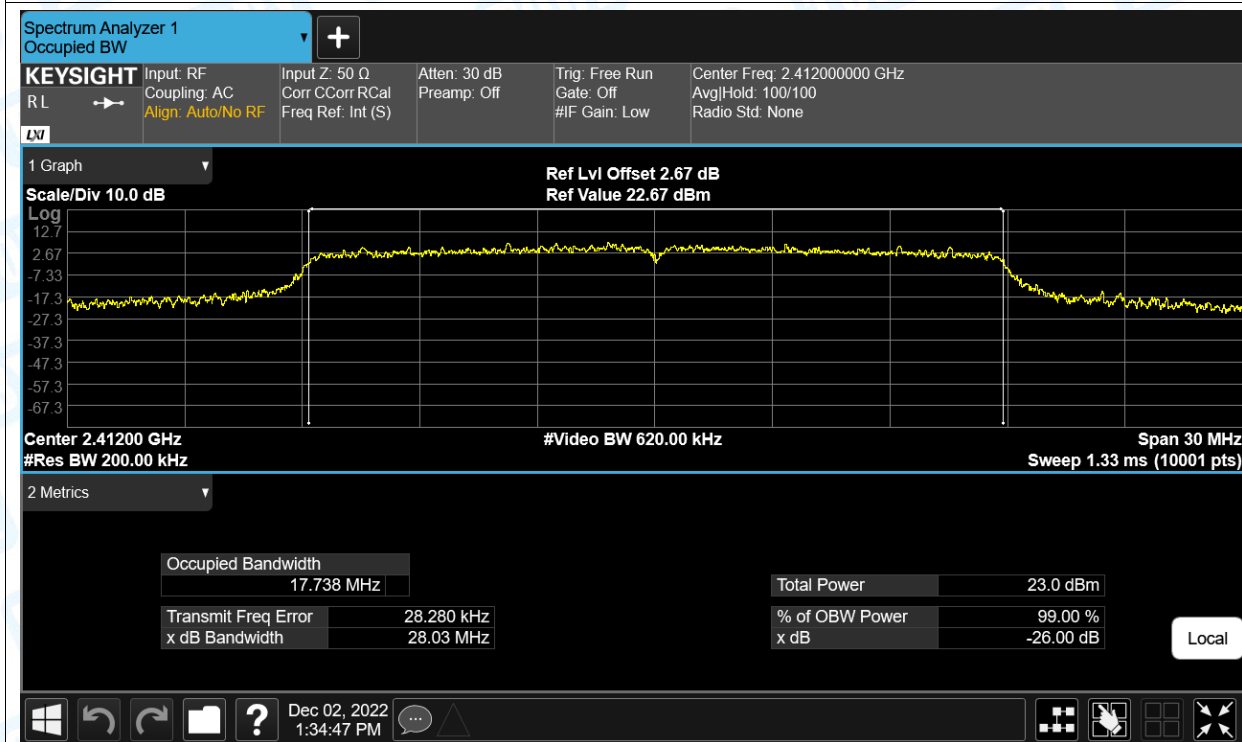
OBW NVNT g 2437MHz Ant1



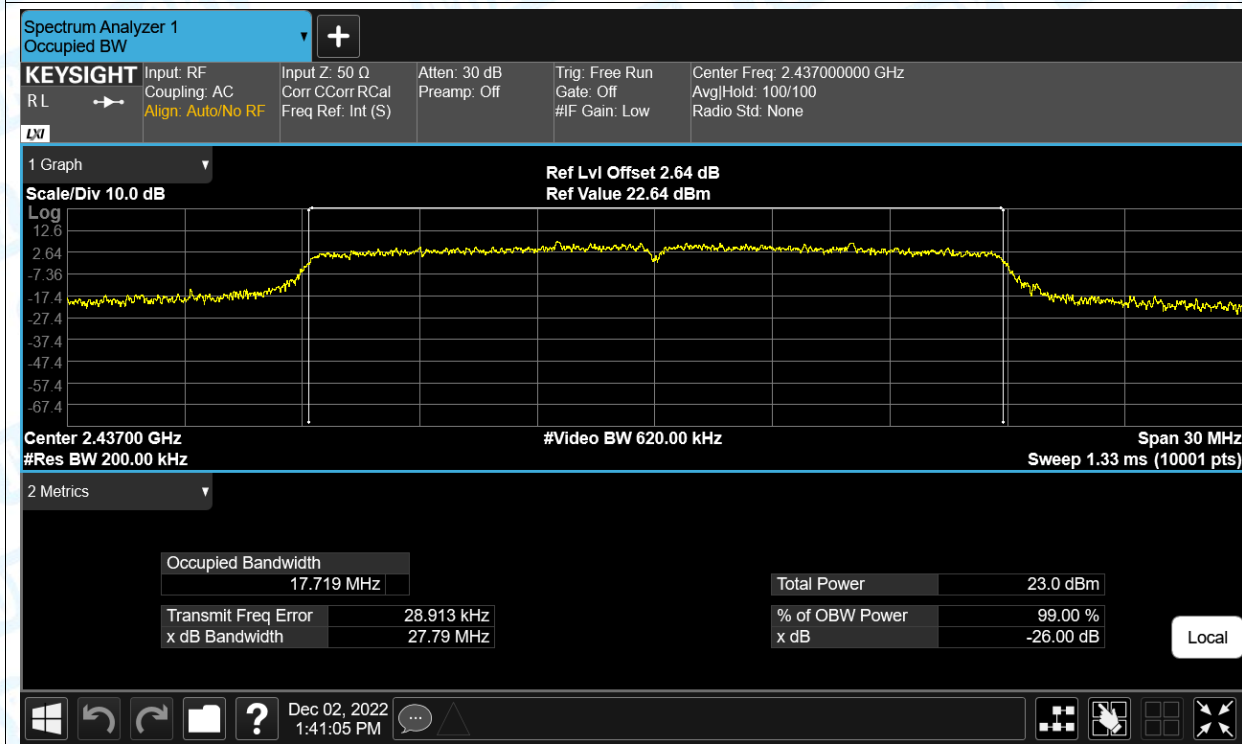
OBW NVNT g 2462MHz Ant1



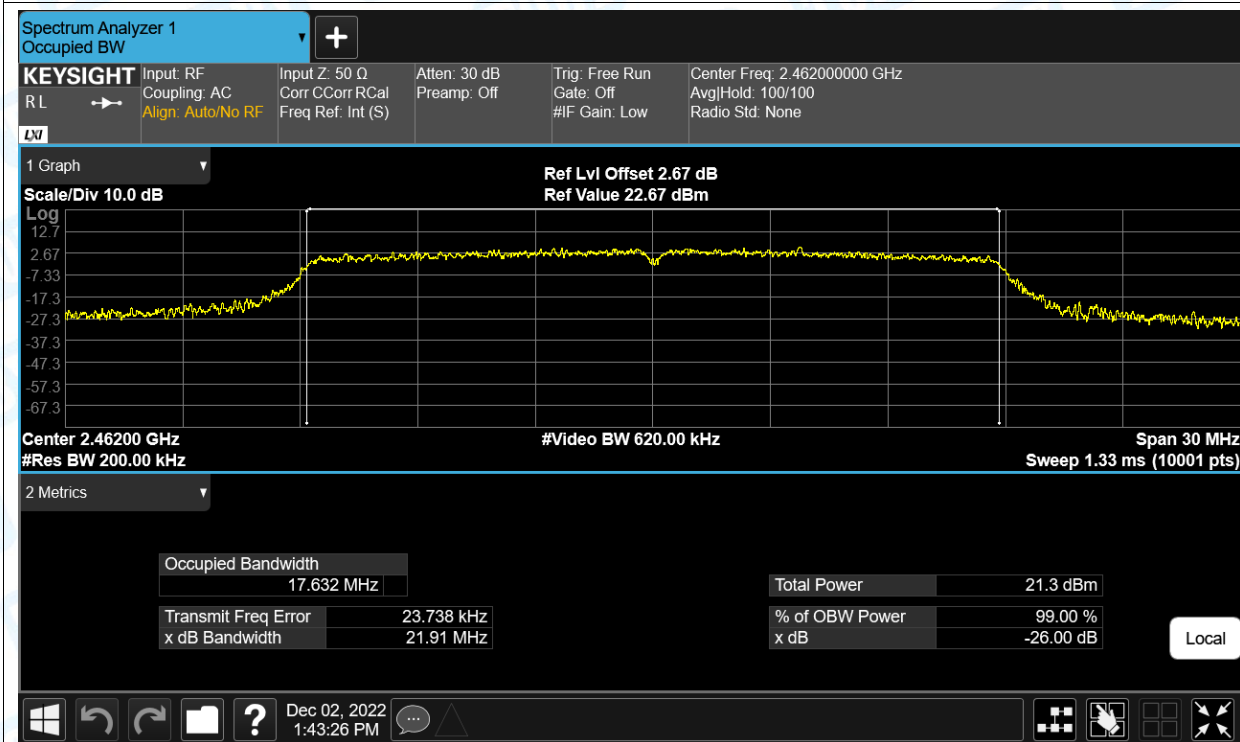
OBW NVNT n(HT20) 2412MHz Ant1



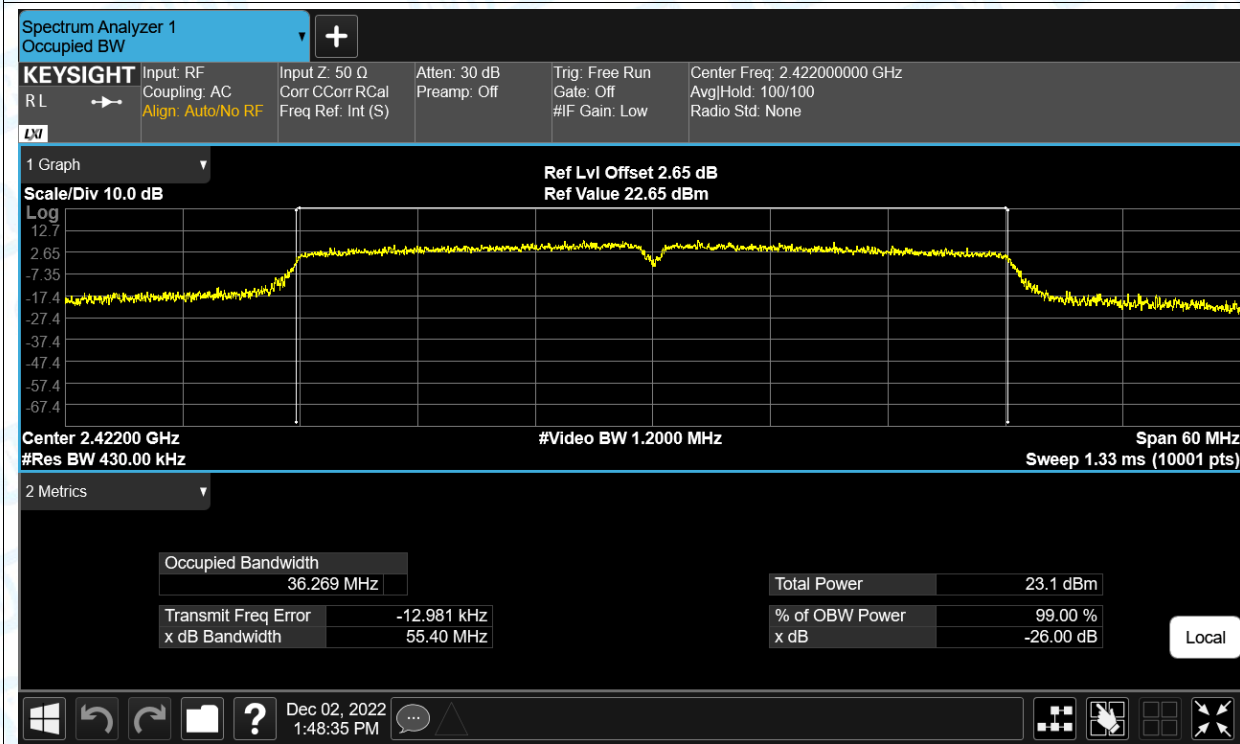
OBW NVNT n(HT20) 2437MHz Ant1



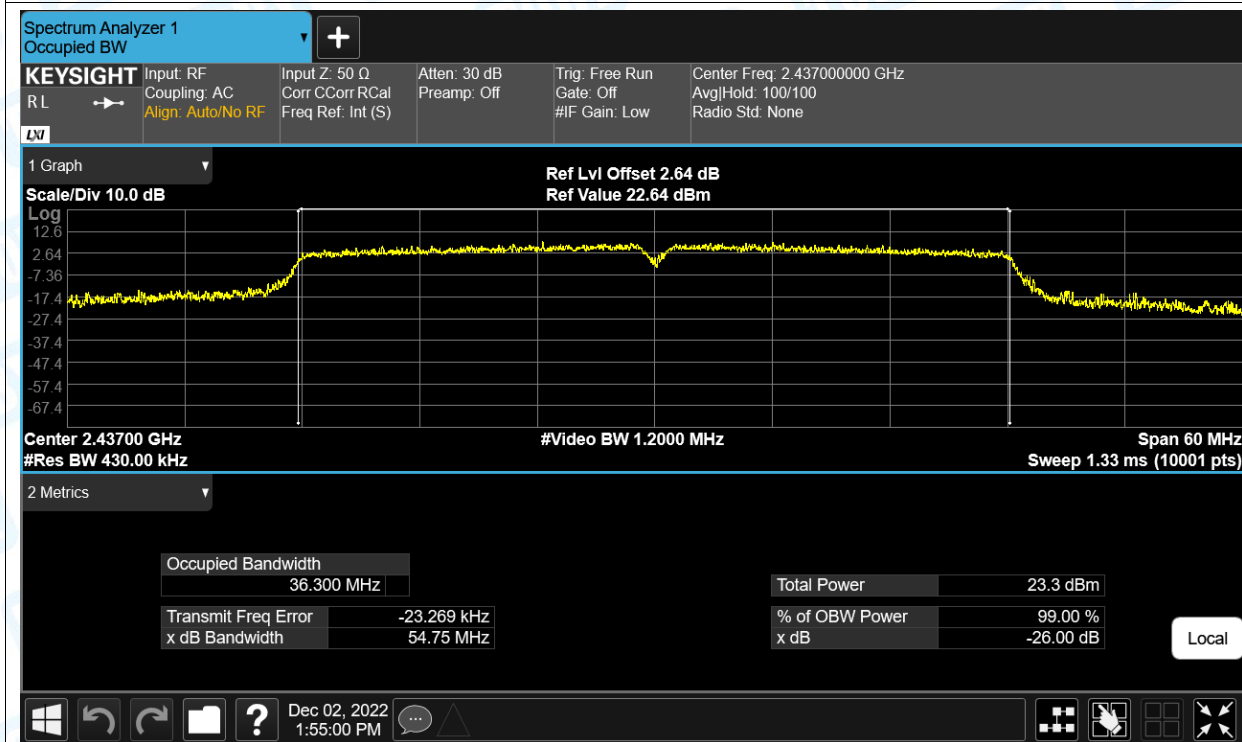
OBW NVNT n(HT20) 2462MHz Ant1



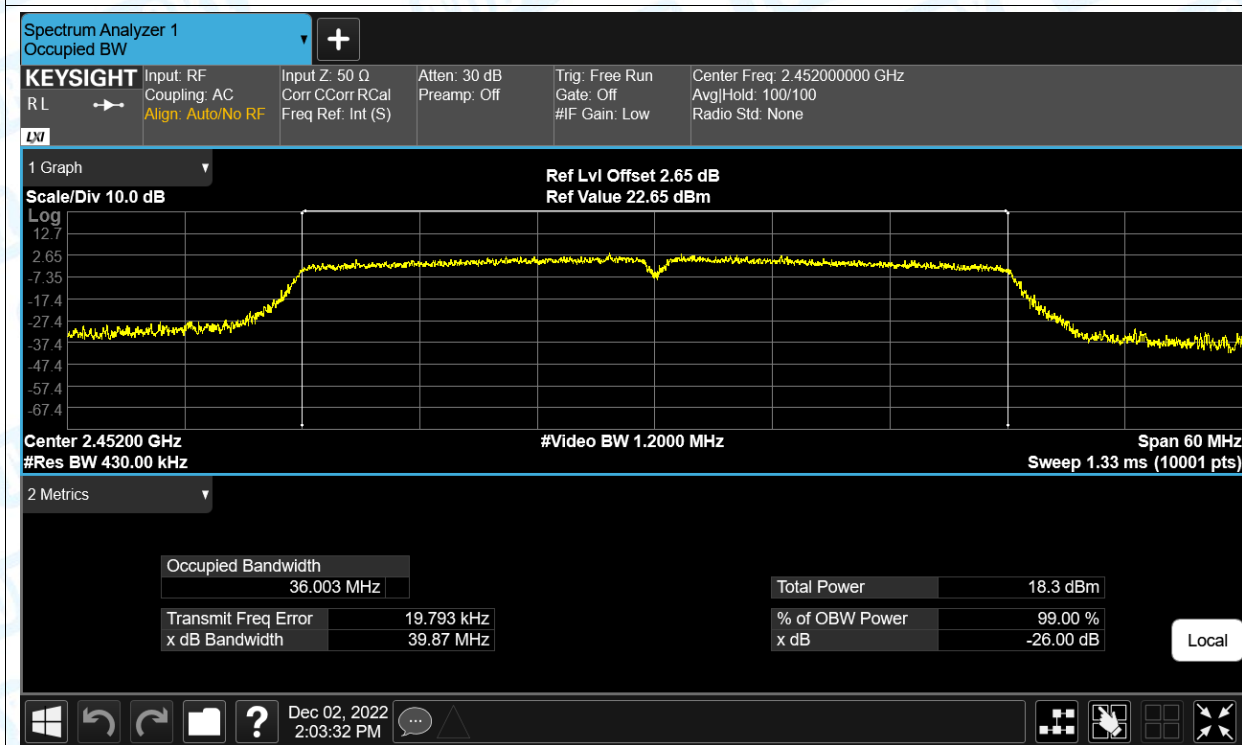
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



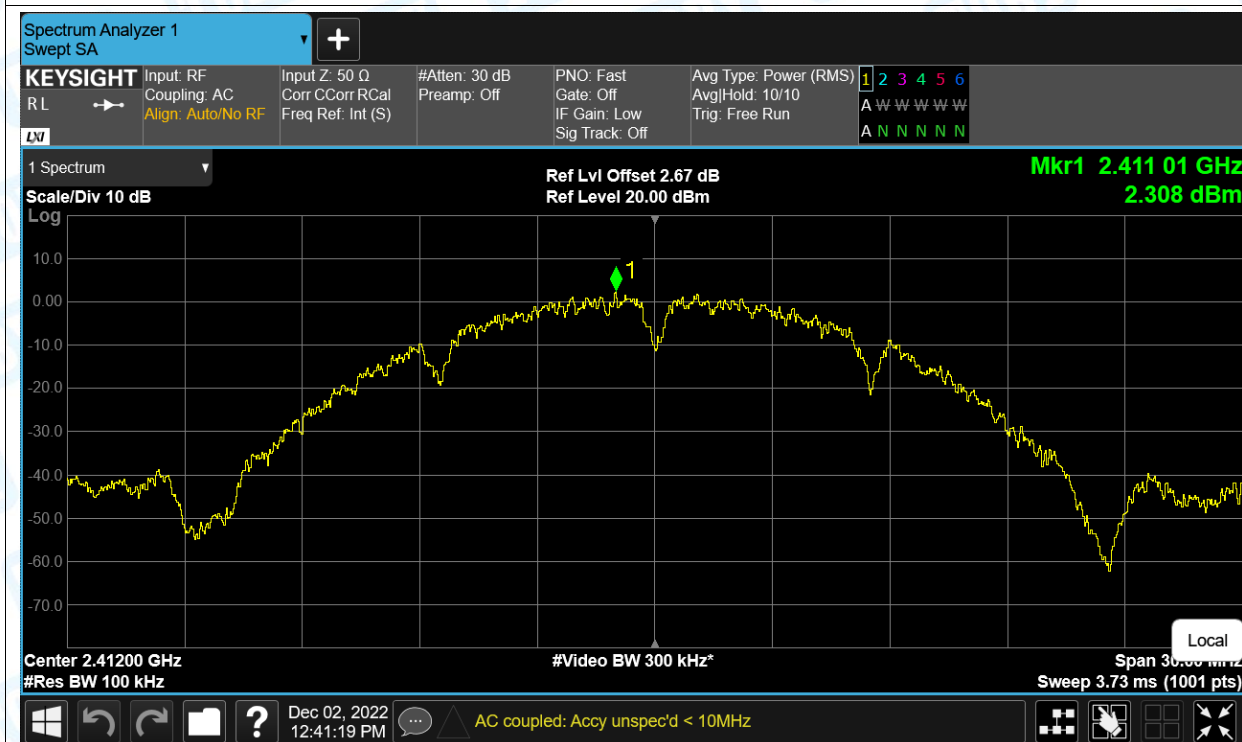
5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3-100kHz)	Limit (dBm/3-100kHz)	Verdict
NVNT	b	2412	Ant1	2.308	8	Pass
NVNT	b	2437	Ant1	2.145	8	Pass
NVNT	b	2462	Ant1	2.889	8	Pass
NVNT	g	2412	Ant1	-4.39	8	Pass
NVNT	g	2437	Ant1	-0.849	8	Pass
NVNT	g	2462	Ant1	-2.806	8	Pass
NVNT	n(HT20)	2412	Ant1	-5.589	8	Pass
NVNT	n(HT20)	2437	Ant1	-1.071	8	Pass
NVNT	n(HT20)	2462	Ant1	-4.691	8	Pass
NVNT	n(HT40)	2422	Ant1	-9.671	8	Pass
NVNT	n(HT40)	2437	Ant1	-3.985	8	Pass
NVNT	n(HT40)	2452	Ant1	-8.97	8	Pass

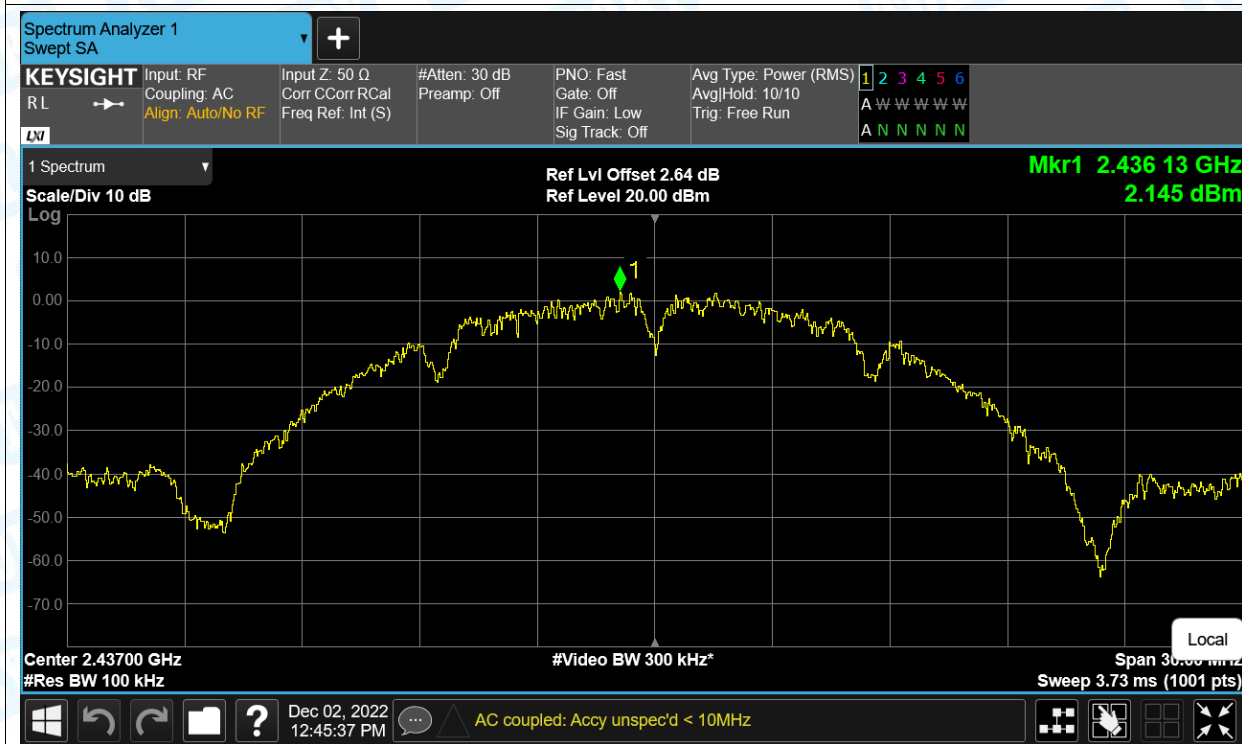
Note: The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

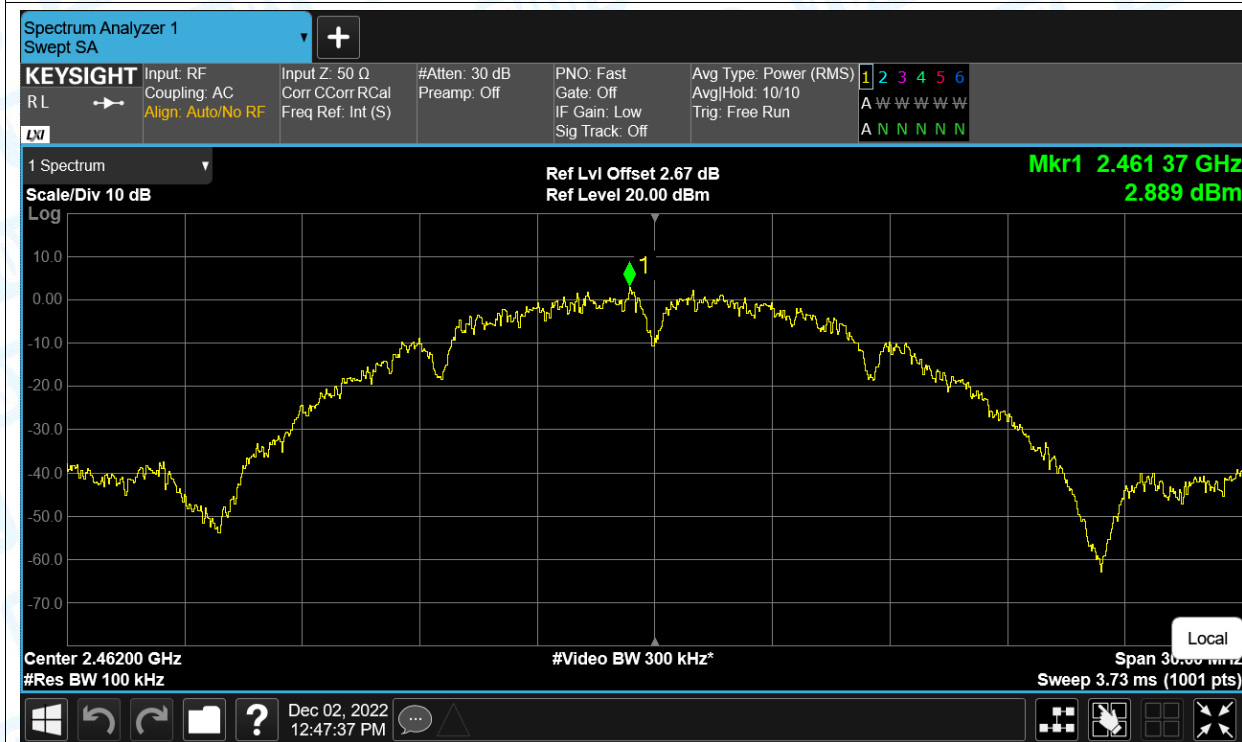
PSD NVNT b 2412MHz Ant1



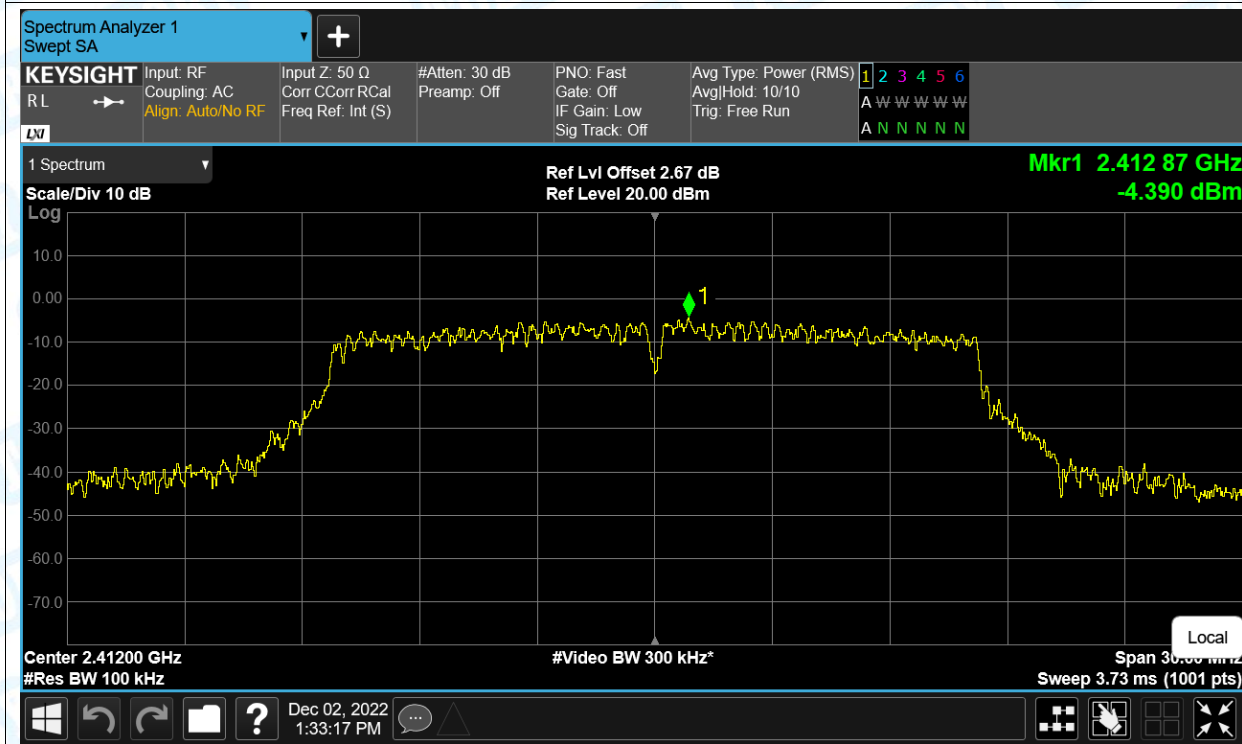
PSD NVNT b 2437MHz Ant1



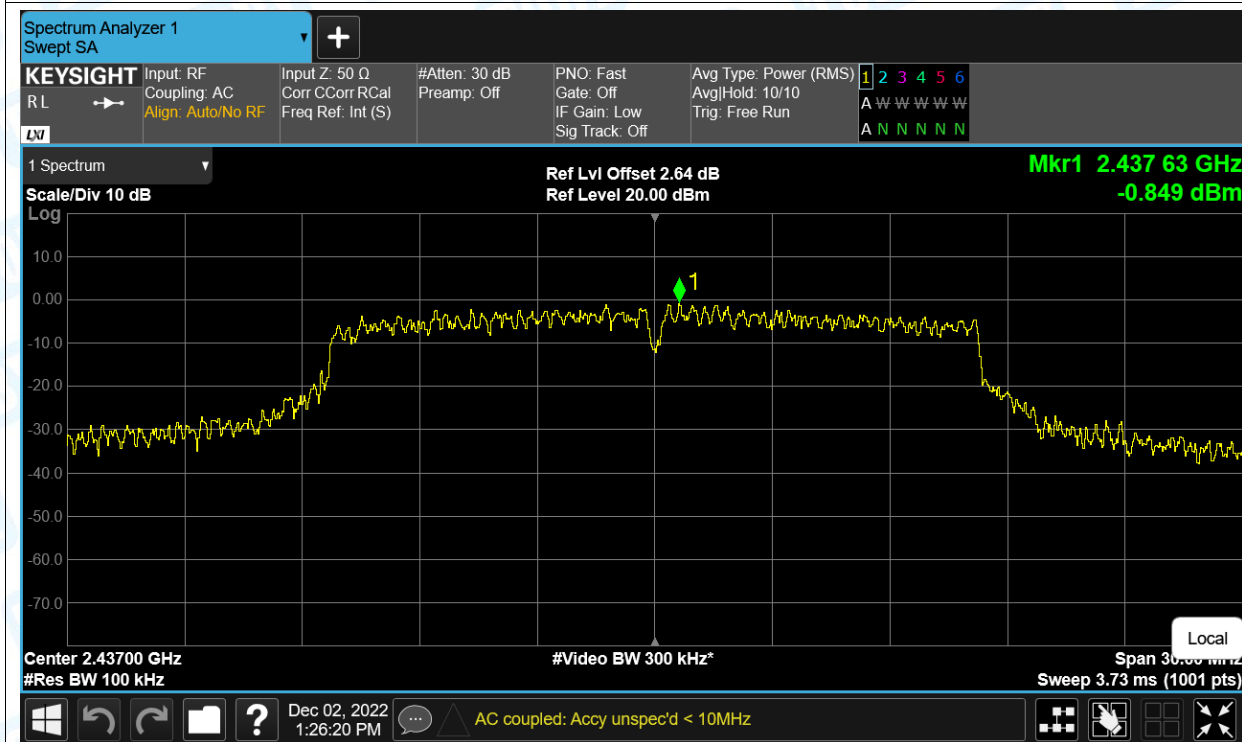
PSD NVNT b 2462MHz Ant1



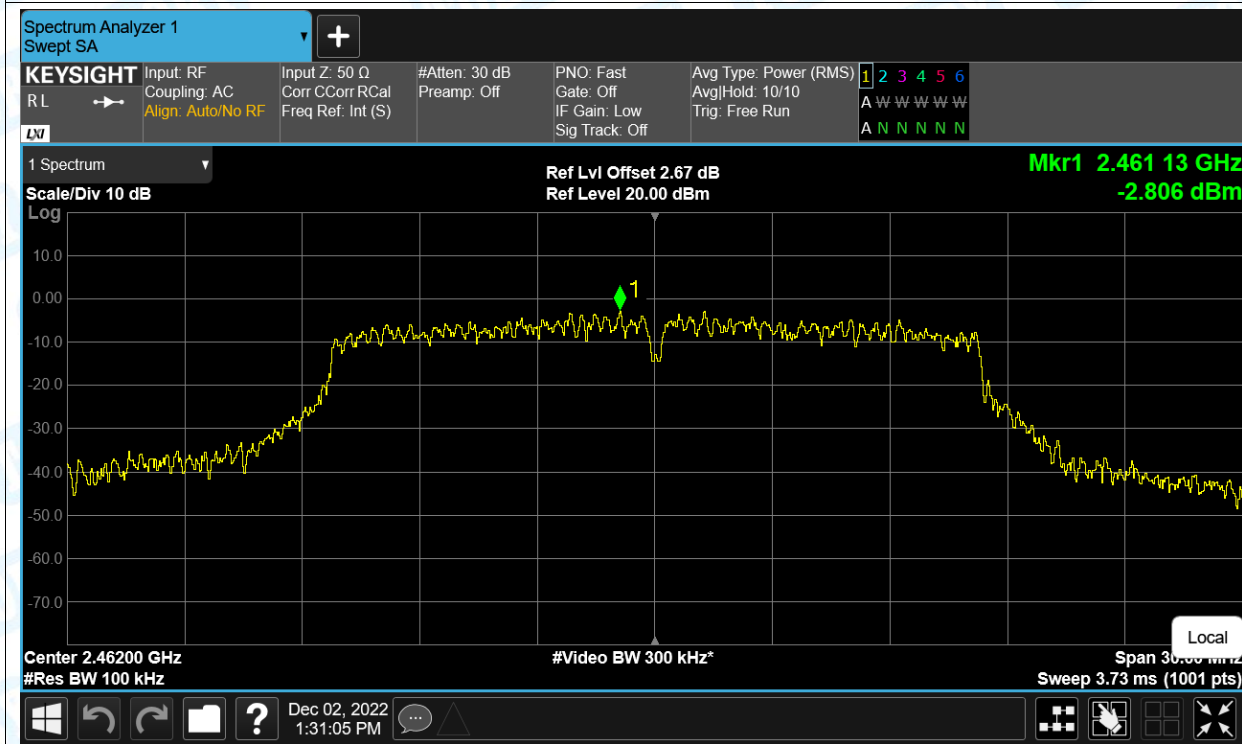
PSD NVNT g 2412MHz Ant1



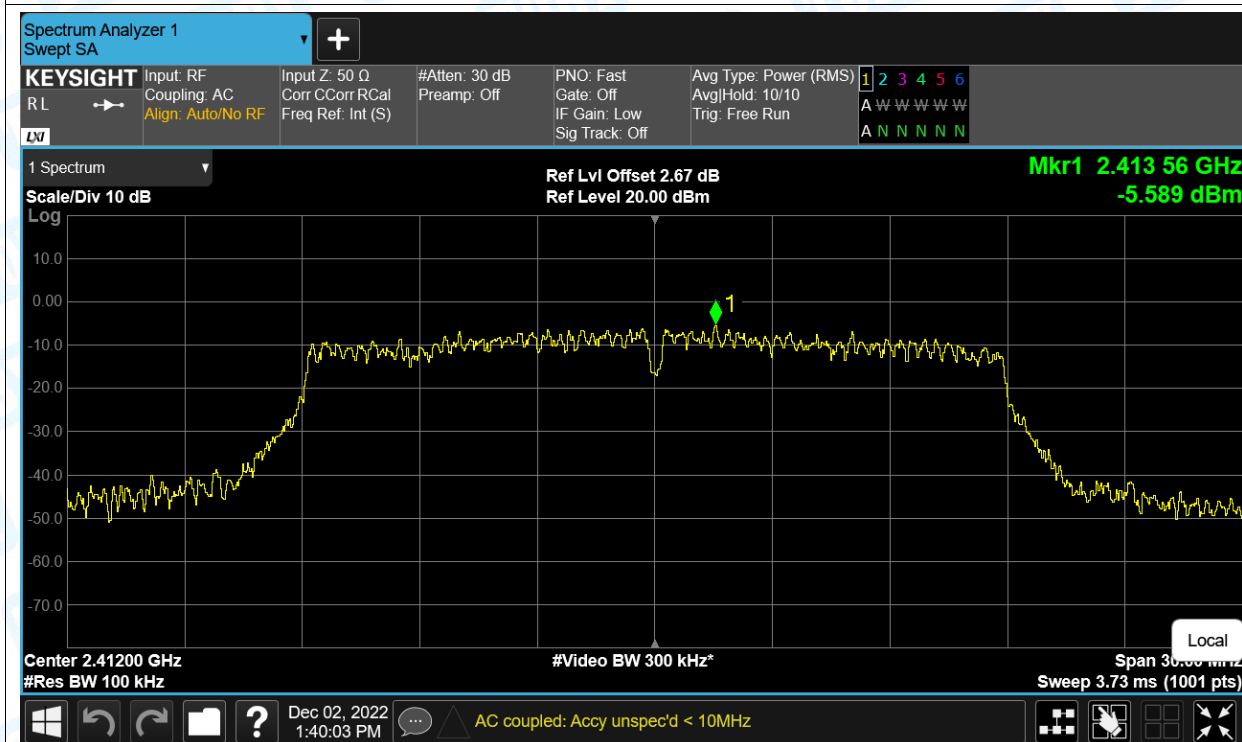
PSD NVNT g 2437MHz Ant1



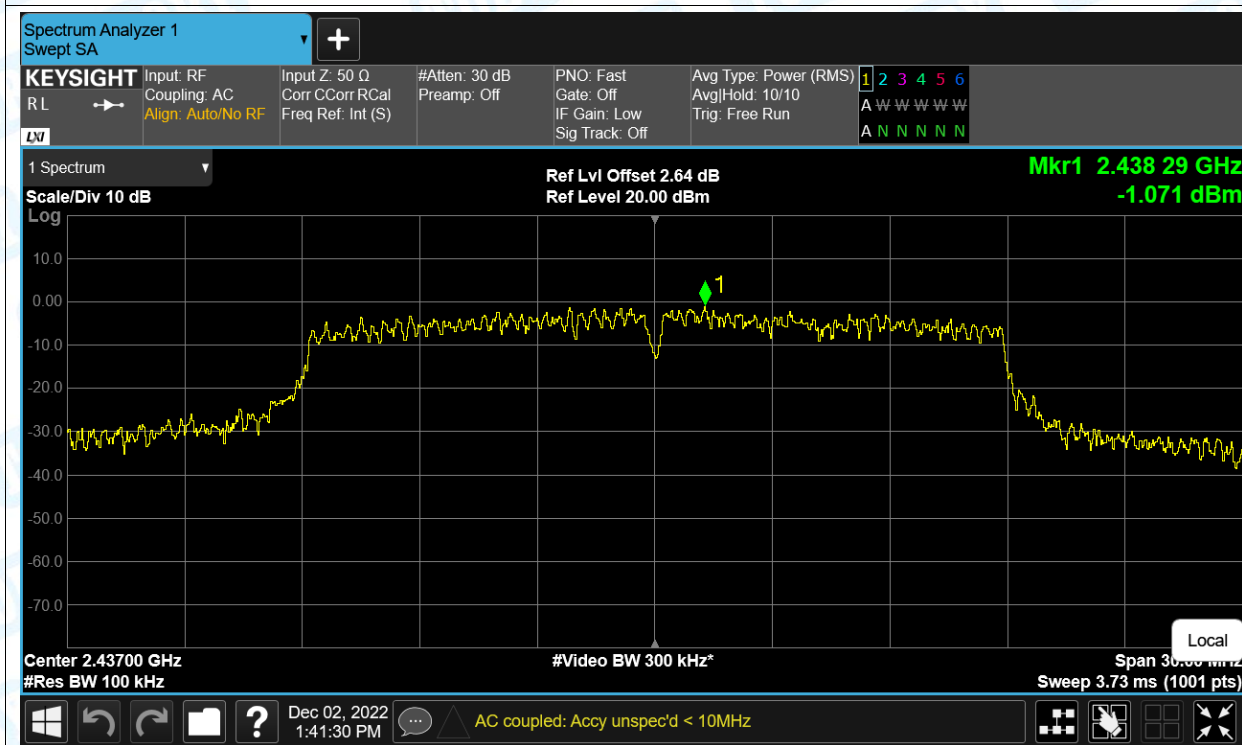
PSD NVNT g 2462MHz Ant1



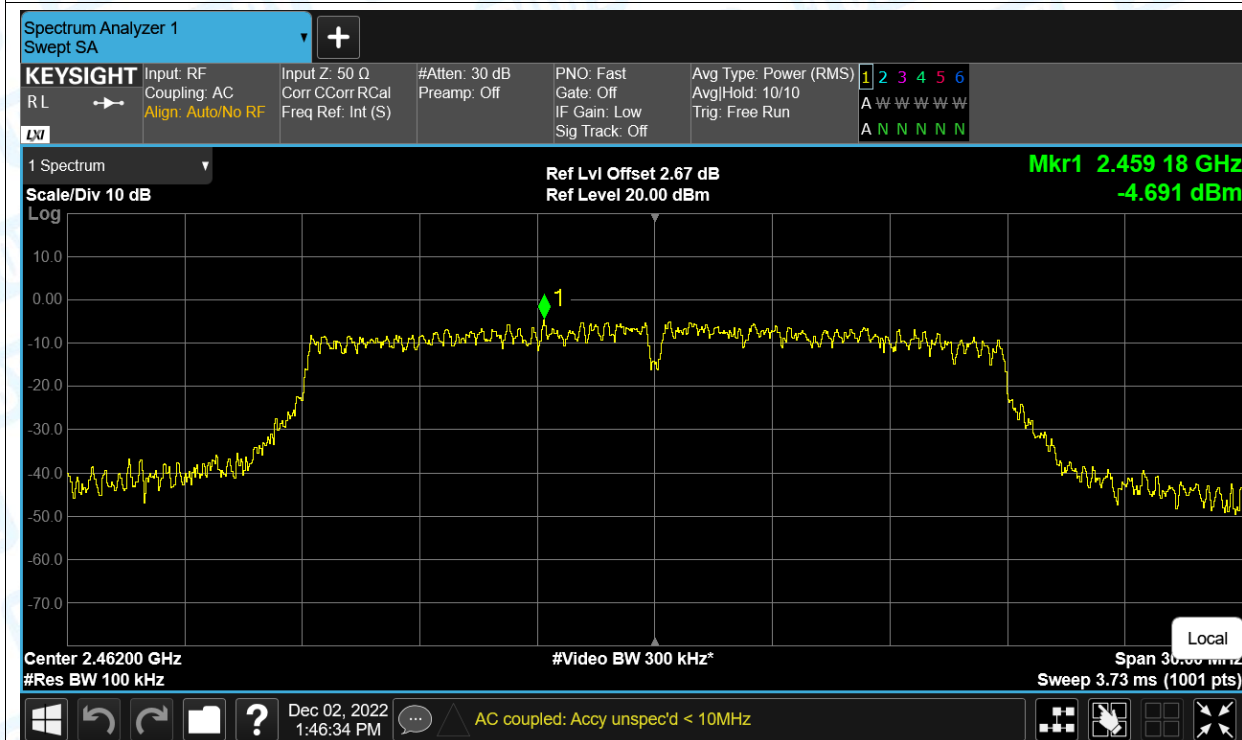
PSD NVNT n(HT20) 2412MHz Ant1



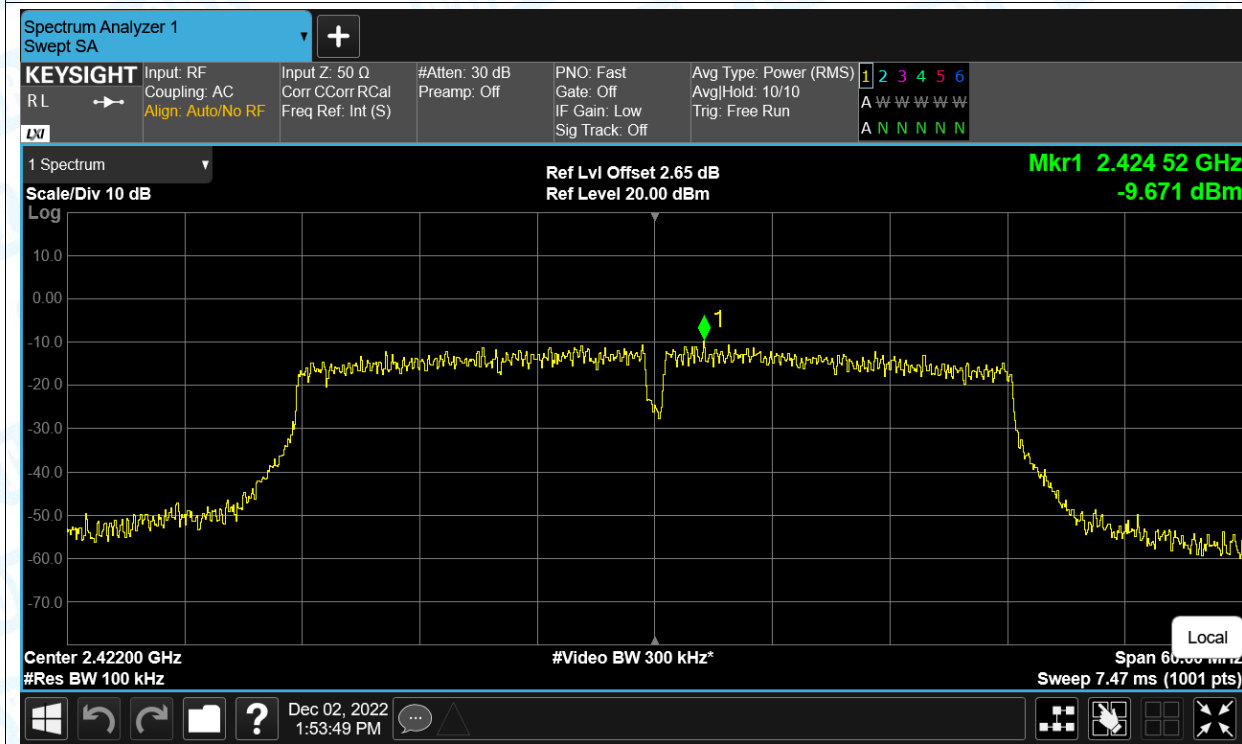
PSD NVNT n(HT20) 2437MHz Ant1



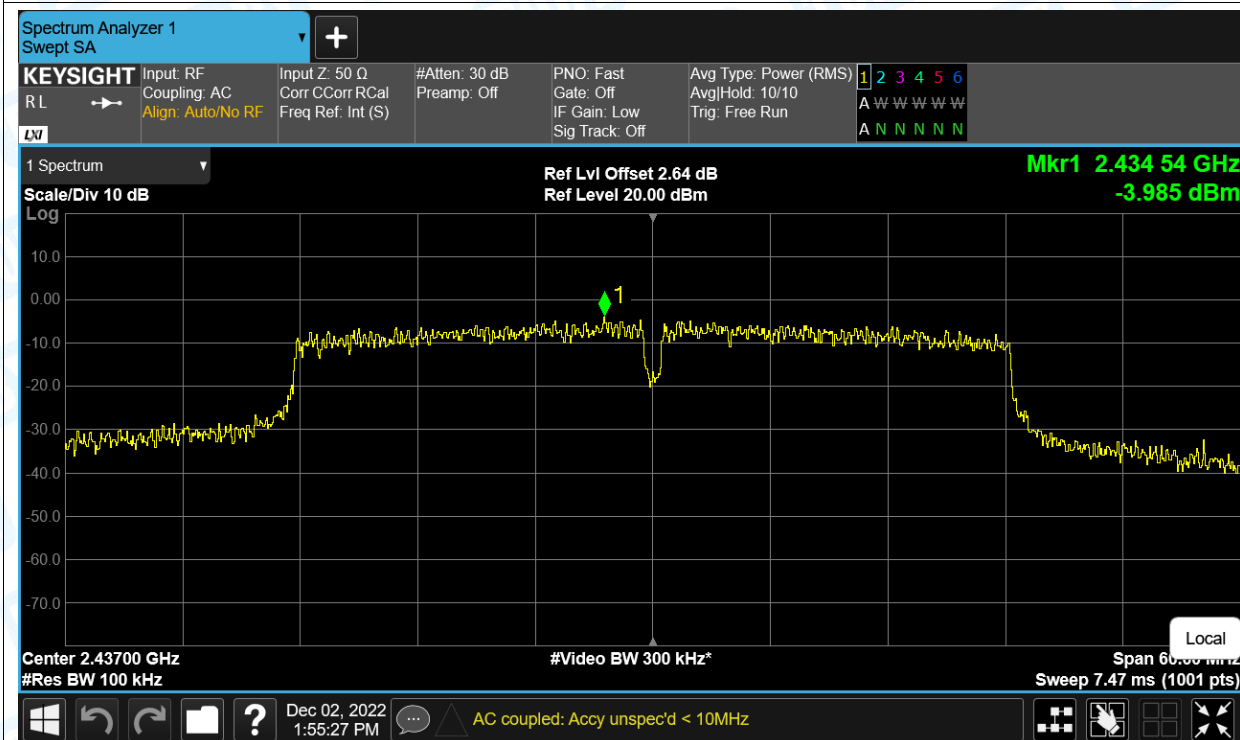
PSD NVNT n(HT20) 2462MHz Ant1



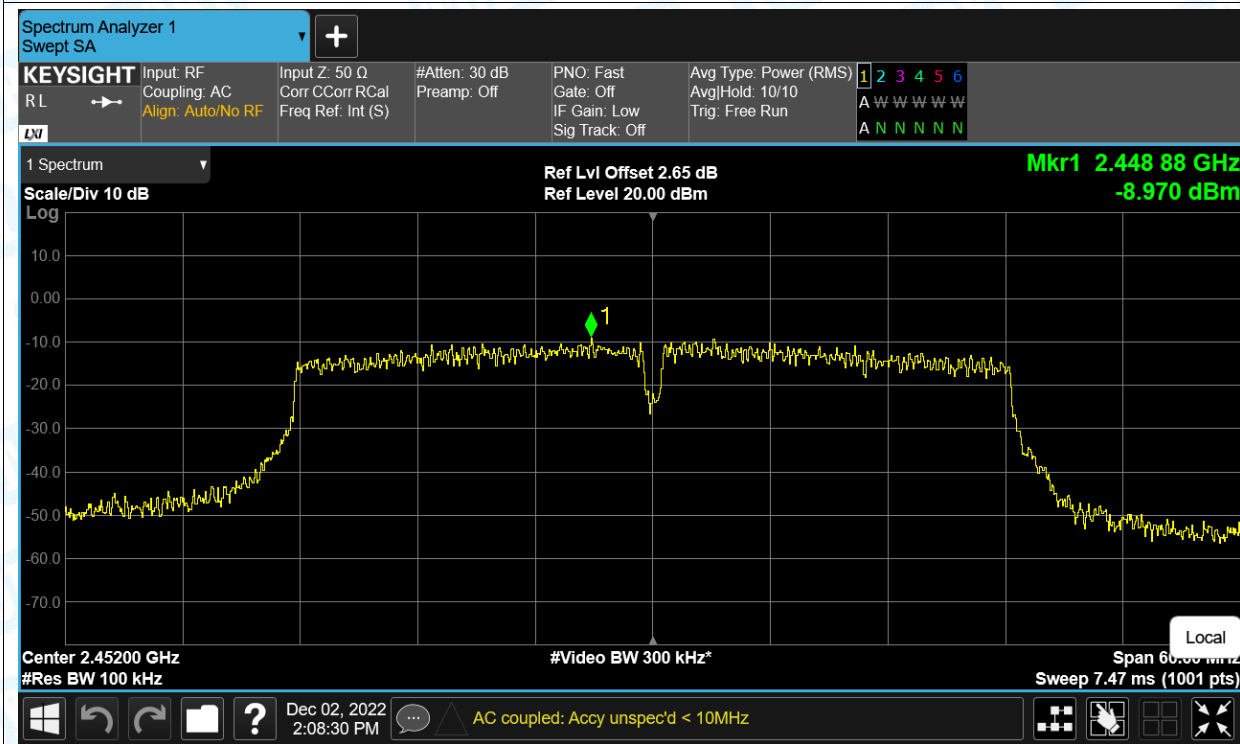
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

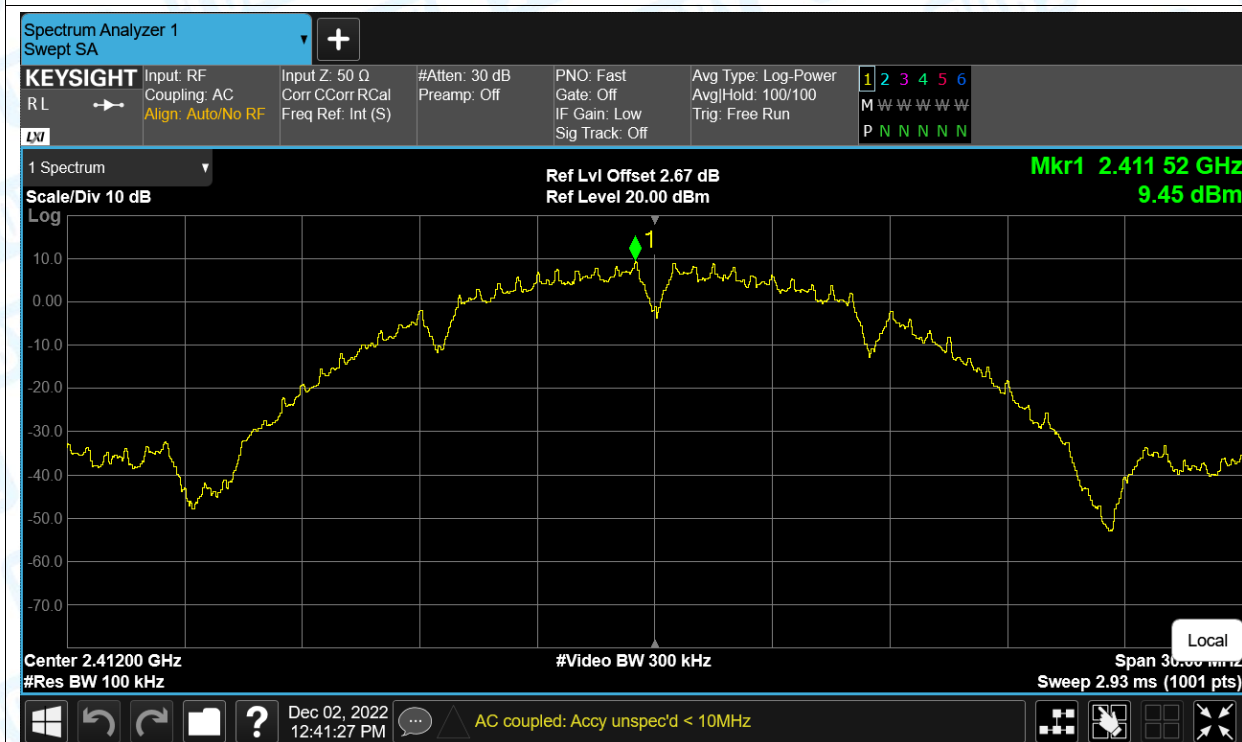


6. Band Edge

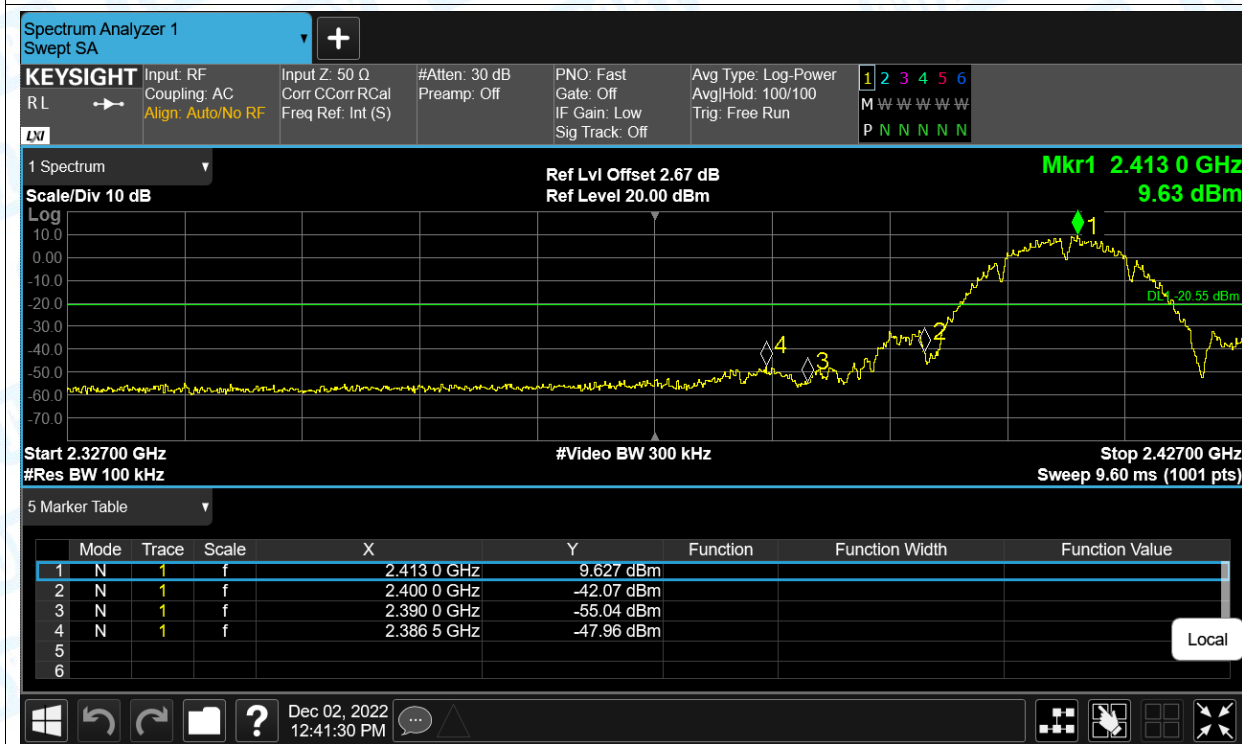
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-57.41	-30	Pass
NVNT	b	2462	Ant1	-55.09	-30	Pass
NVNT	g	2412	Ant1	-40.38	-30	Pass
NVNT	g	2462	Ant1	-46.11	-30	Pass
NVNT	n(HT20)	2412	Ant1	-37.24	-30	Pass
NVNT	n(HT20)	2462	Ant1	-43.71	-30	Pass
NVNT	n(HT40)	2422	Ant1	-30.68	-30	Pass
NVNT	n(HT40)	2452	Ant1	-40.23	-30	Pass

Test Graphs

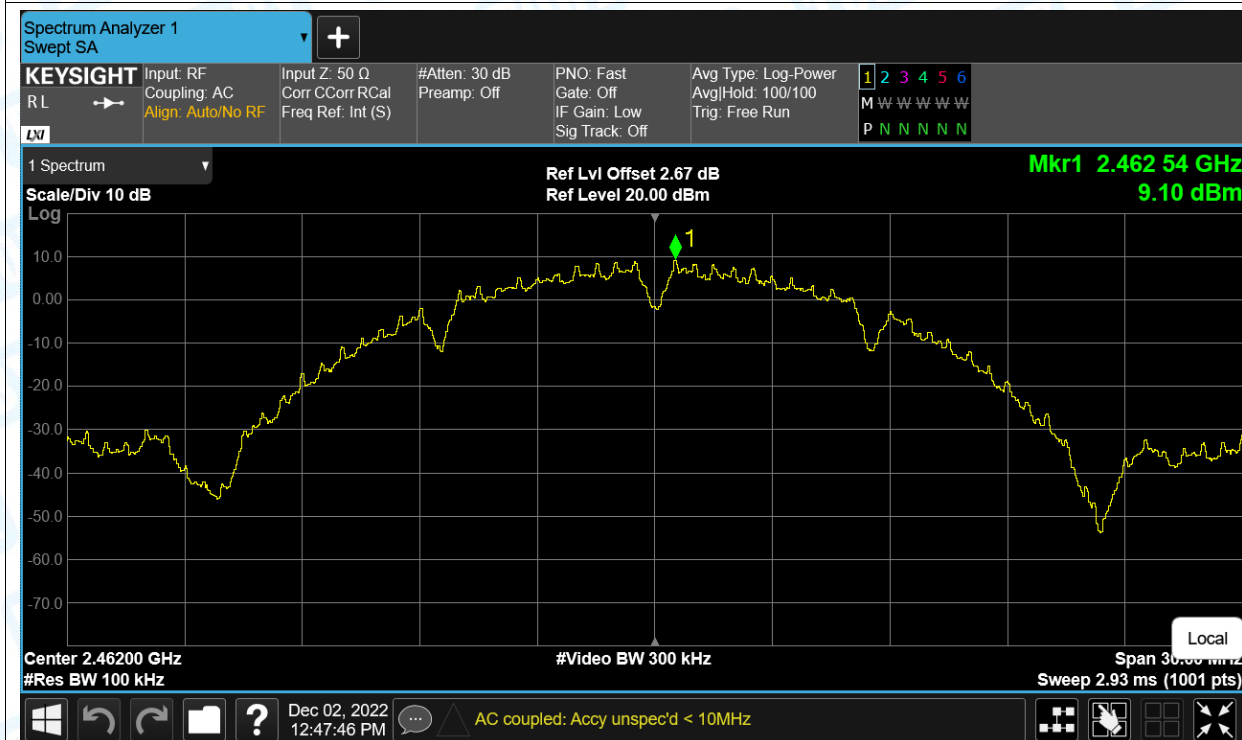
Band Edge NVNT b 2412MHz Ant1 Ref



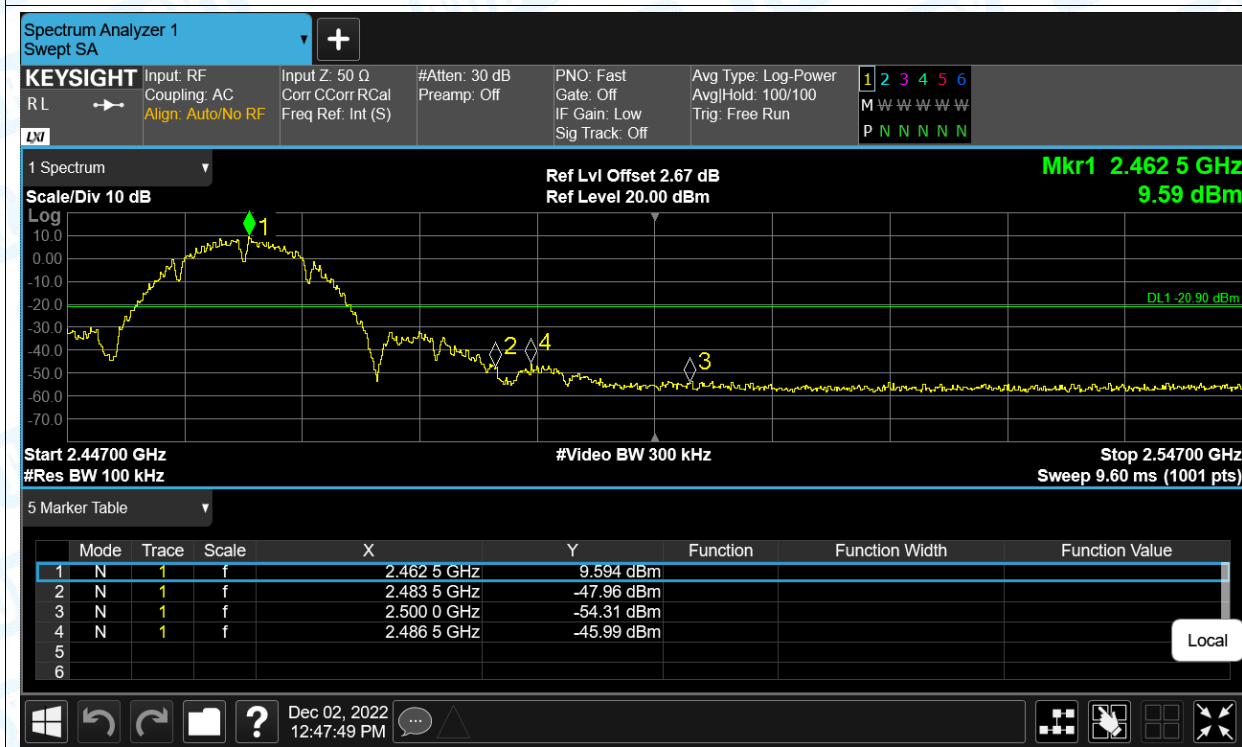
Band Edge NVNT b 2412MHz Ant1 Emission



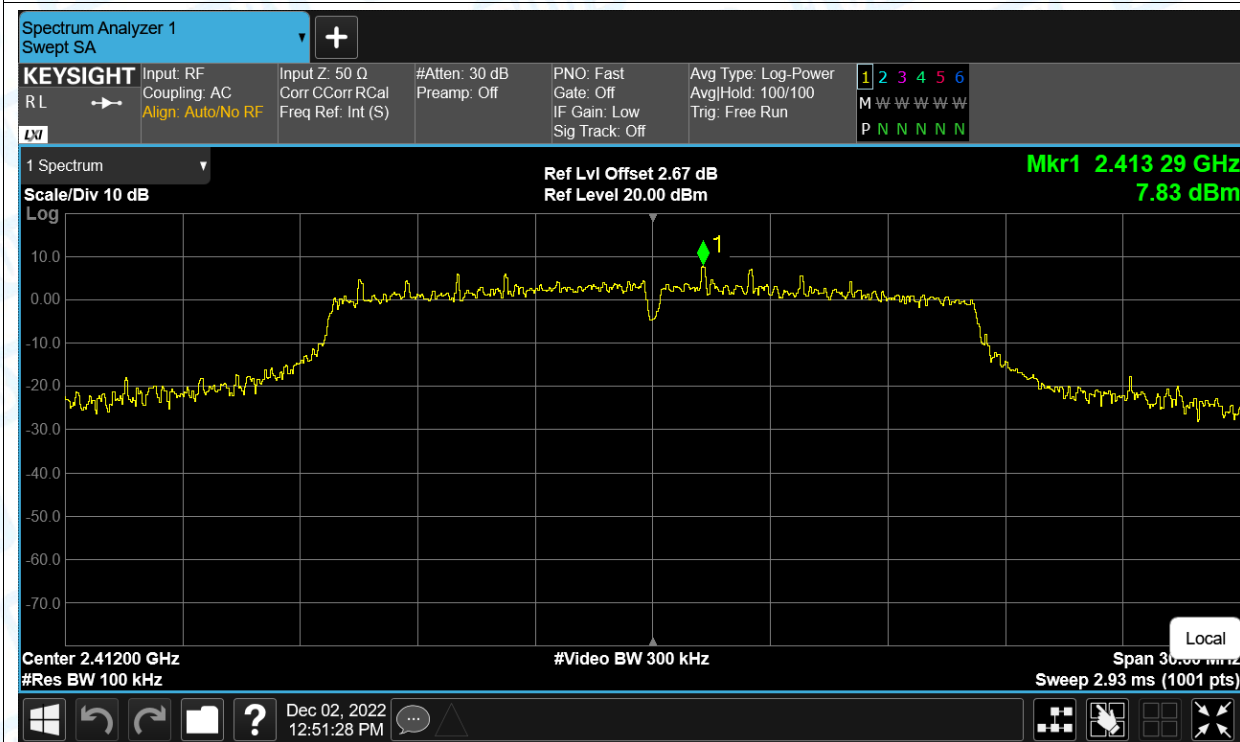
Band Edge NVNT b 2462MHz Ant1 Ref



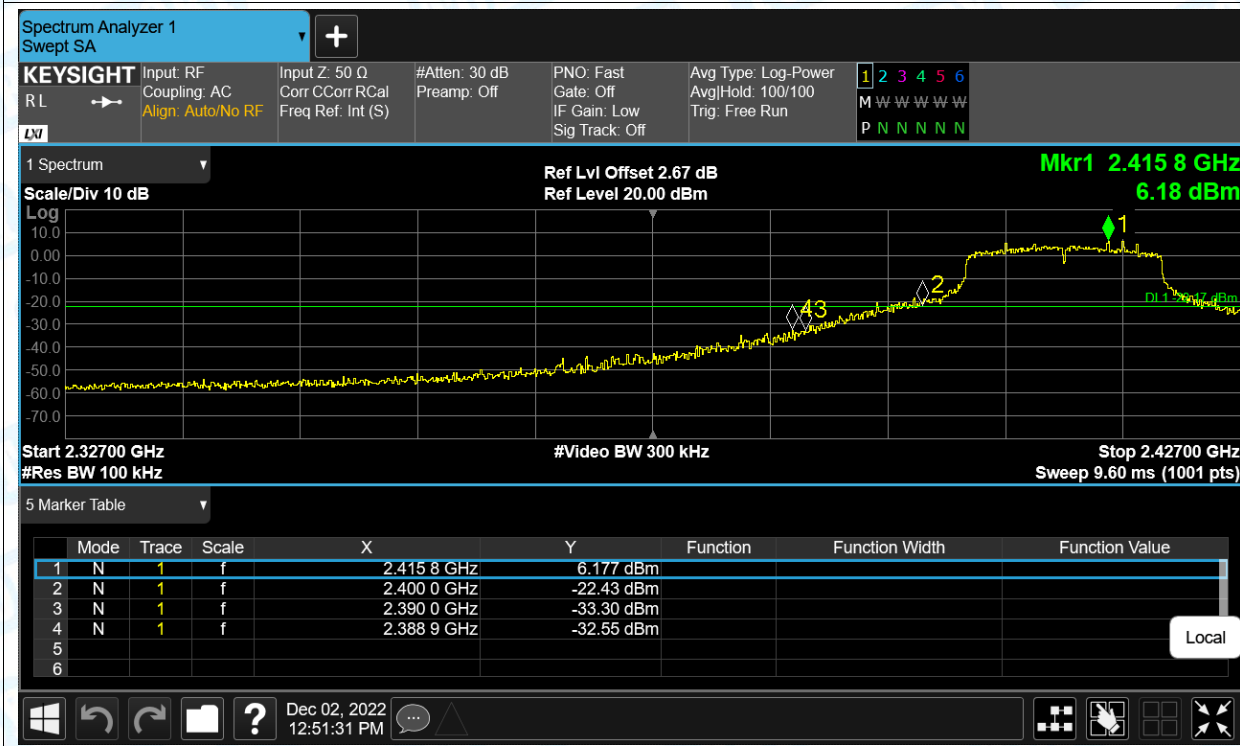
Band Edge NVNT b 2462MHz Ant1 Emission



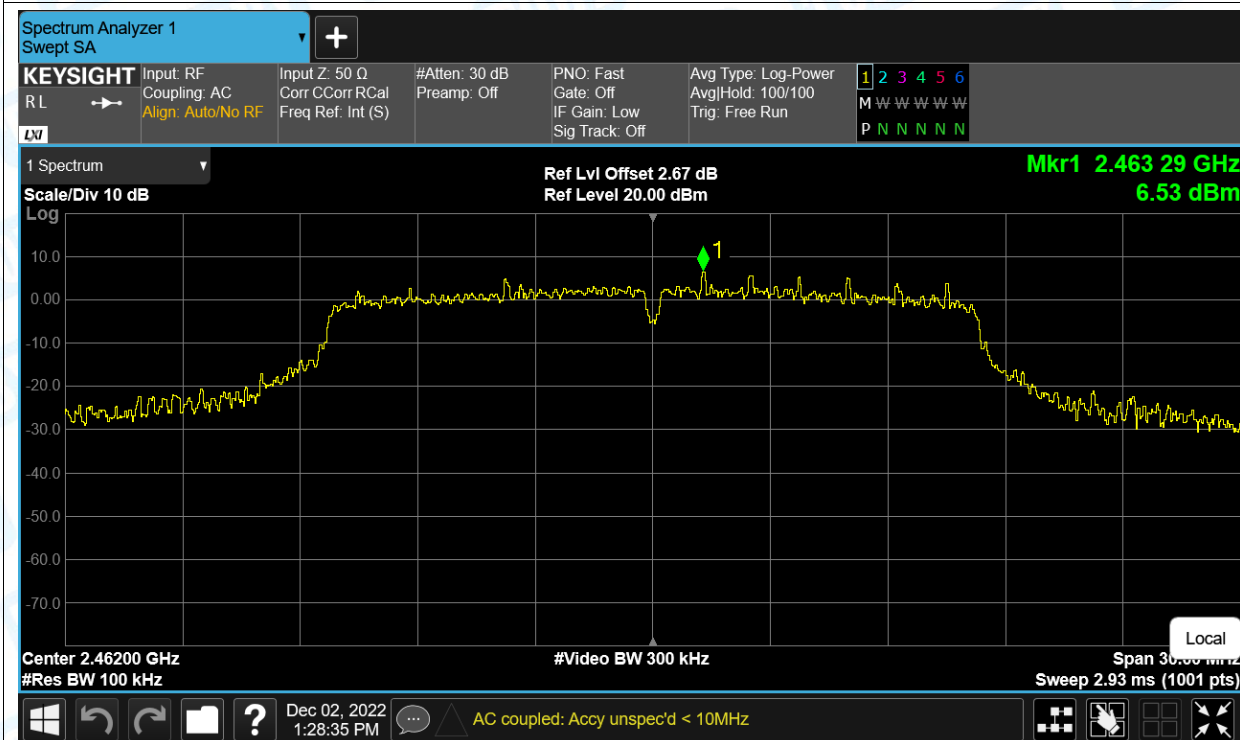
Band Edge NVNT g 2412MHz Ant1 Ref



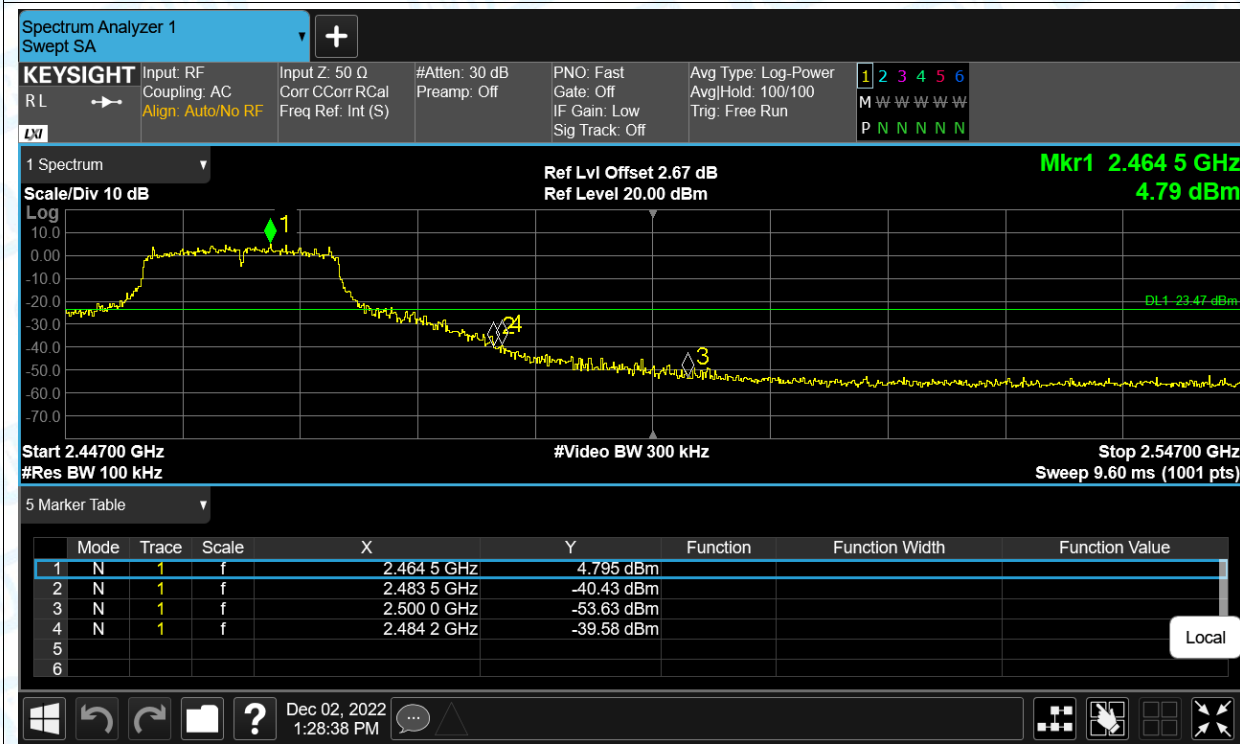
Band Edge NVNT g 2412MHz Ant1 Emission



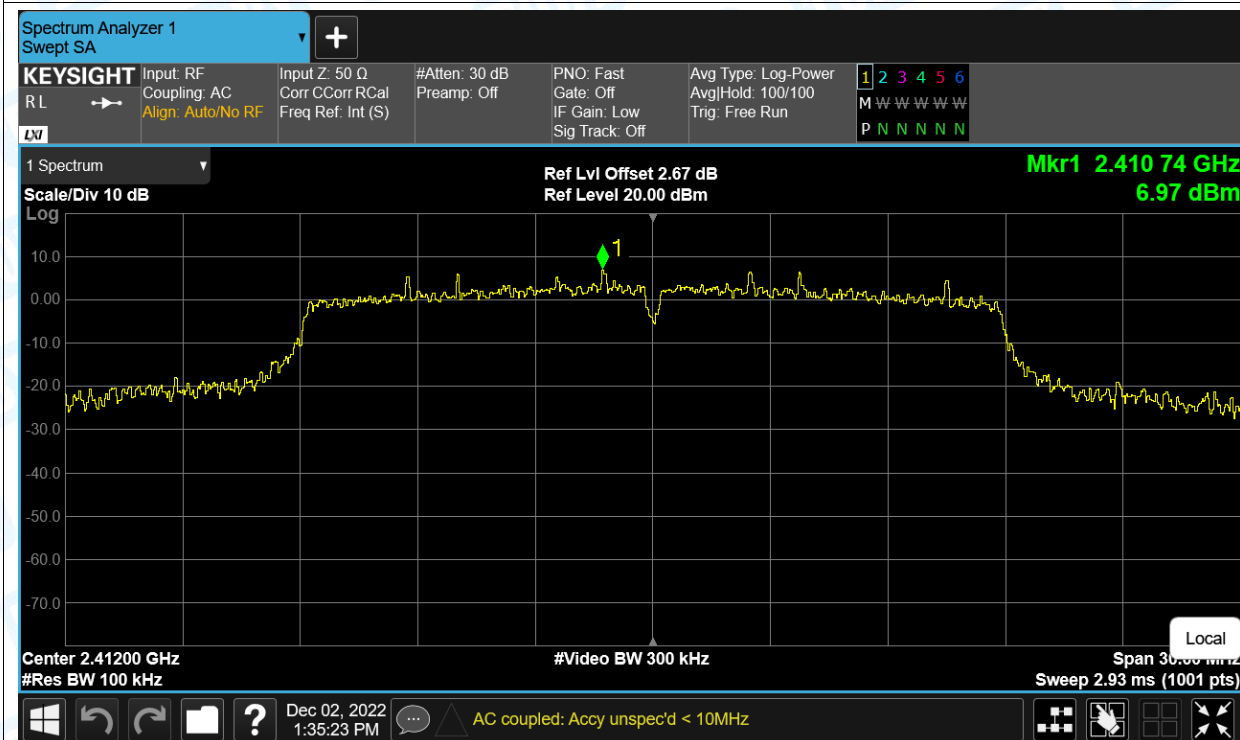
Band Edge NVNT g 2462MHz Ant1 Ref



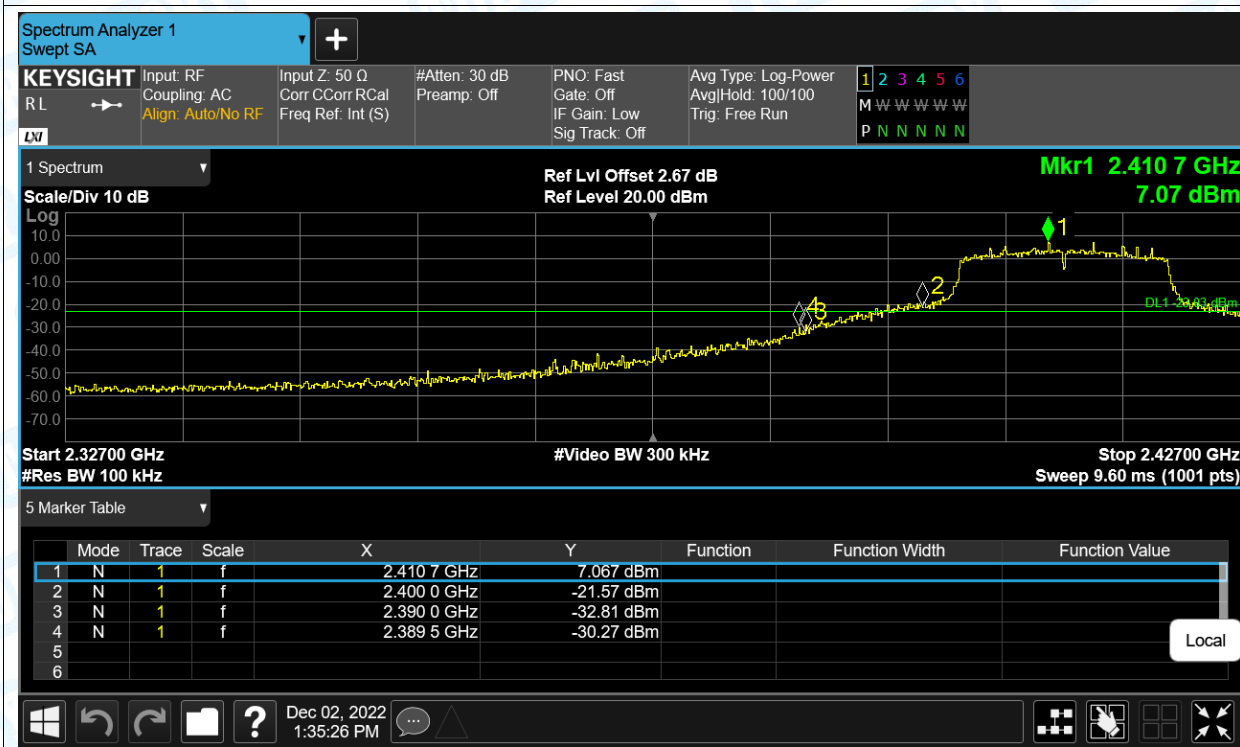
Band Edge NVNT g 2462MHz Ant1 Emission



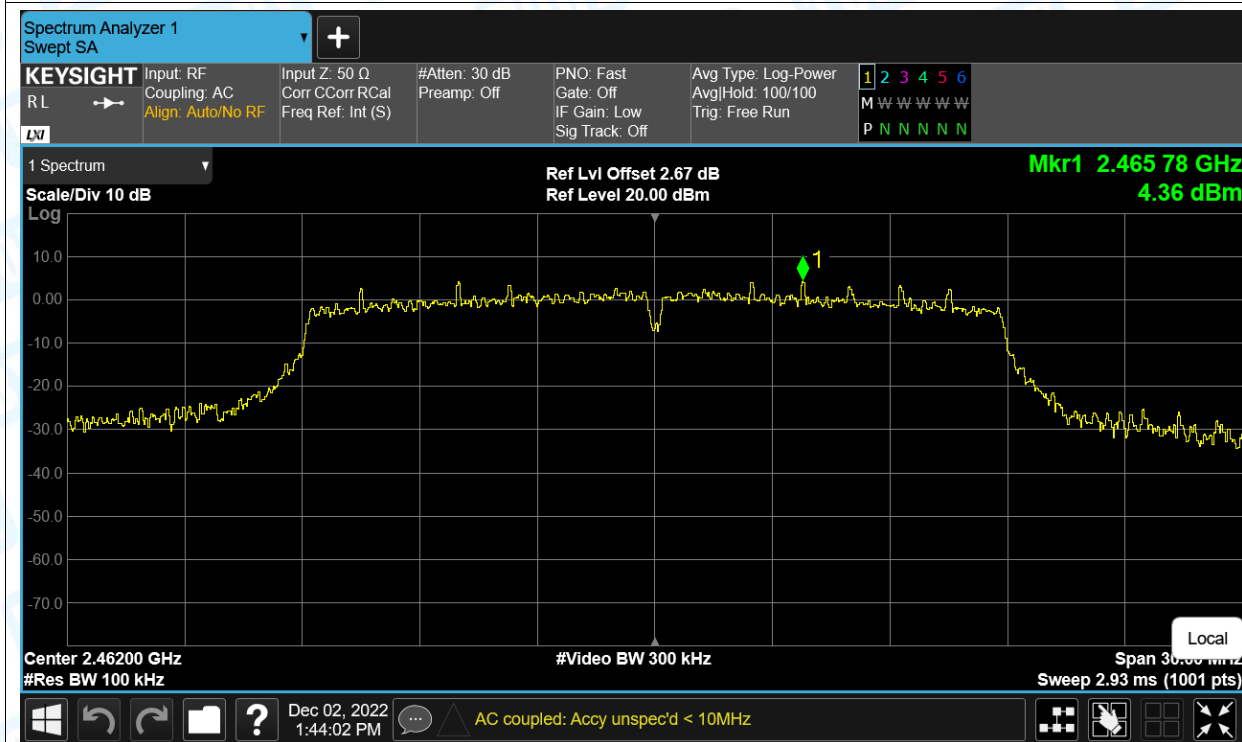
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



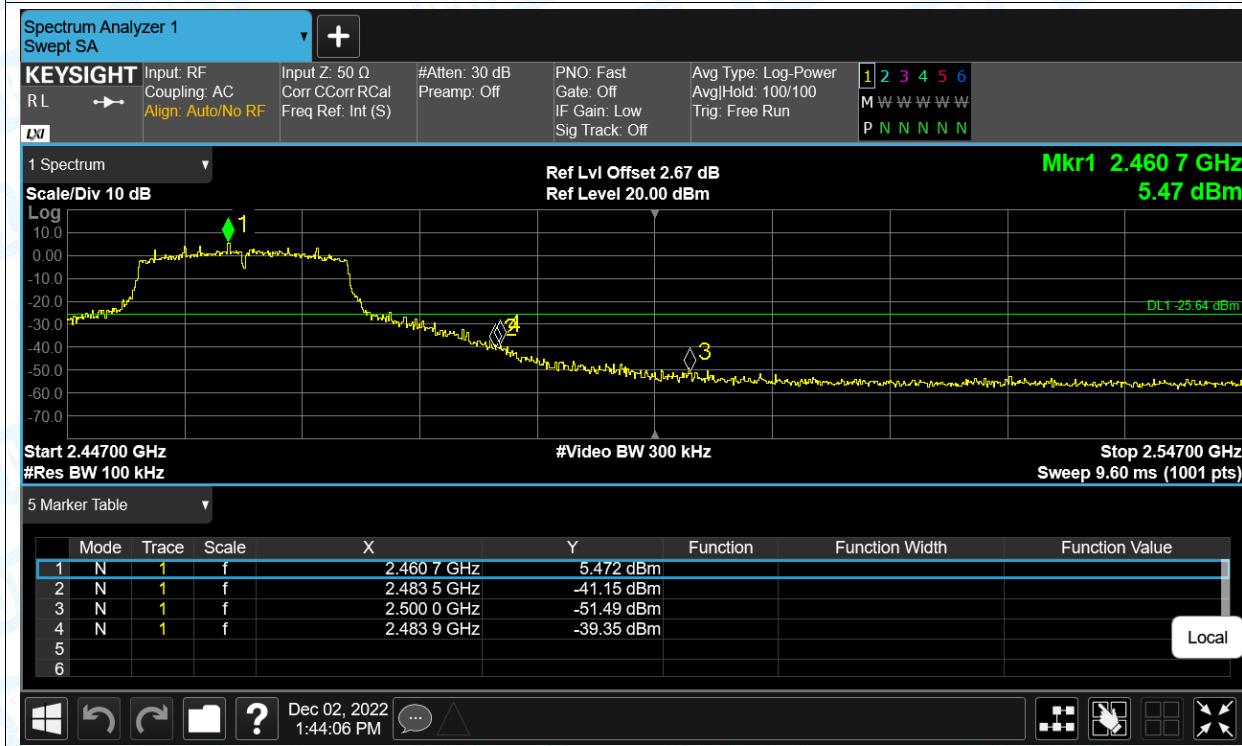
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



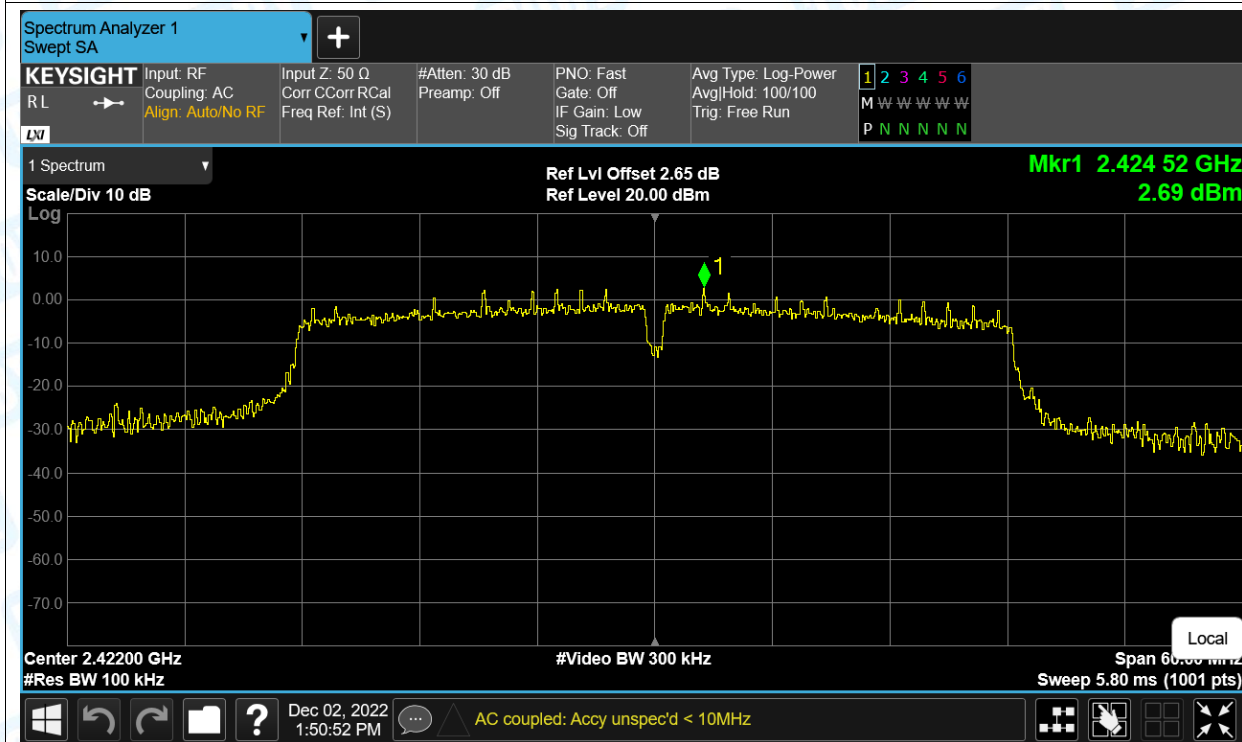
Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



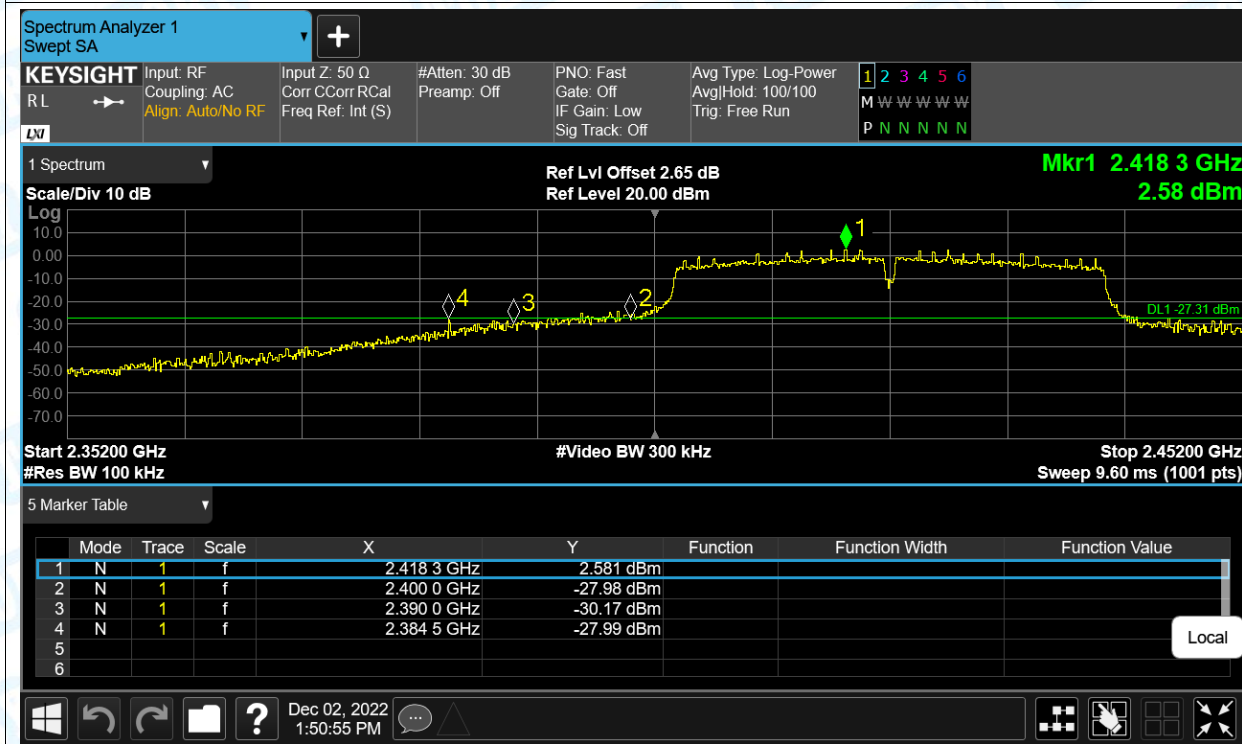
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



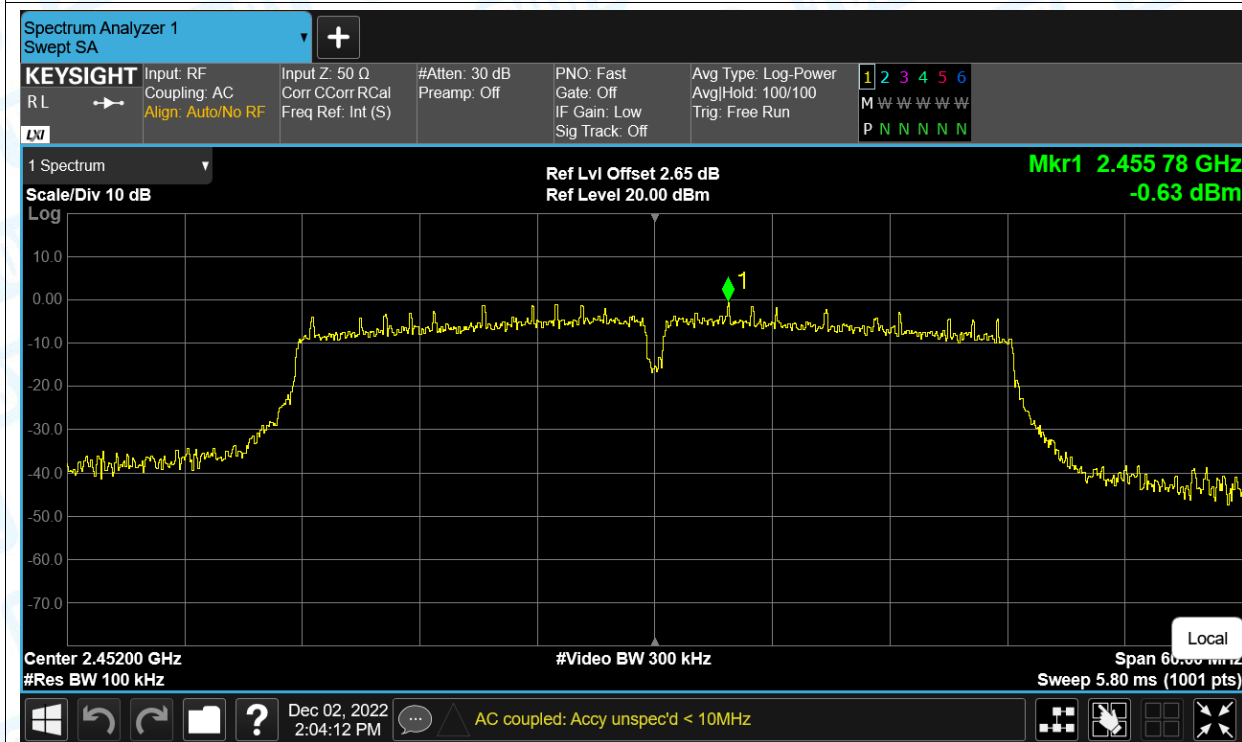
Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



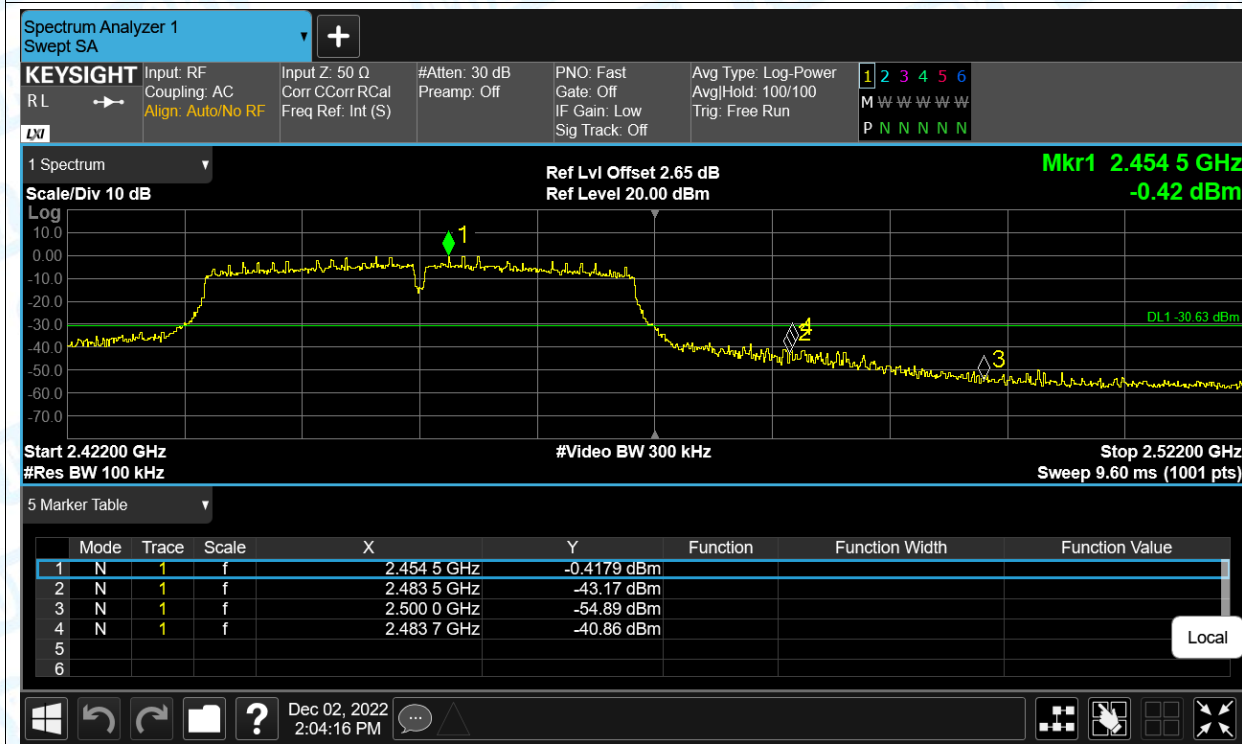
Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



Band Edge NVNT n(HT40) 2452MHz Ant1 Emission

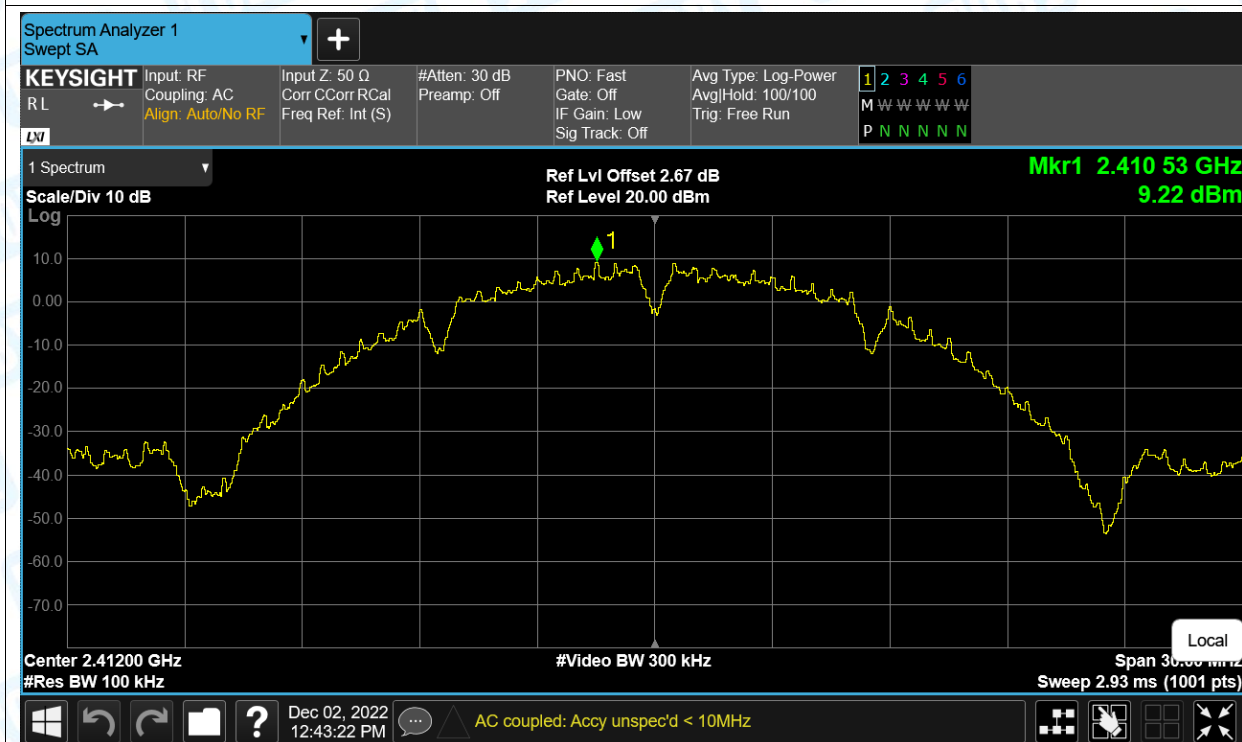


7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.59	-30	Pass
NVNT	b	2437	Ant1	-50.99	-30	Pass
NVNT	b	2462	Ant1	-50.55	-30	Pass
NVNT	g	2412	Ant1	-49.95	-30	Pass
NVNT	g	2437	Ant1	-48.47	-30	Pass
NVNT	g	2462	Ant1	-48.59	-30	Pass
NVNT	n(HT20)	2412	Ant1	-48.11	-30	Pass
NVNT	n(HT20)	2437	Ant1	-47.41	-30	Pass
NVNT	n(HT20)	2462	Ant1	-48.08	-30	Pass
NVNT	n(HT40)	2422	Ant1	-46.26	-30	Pass
NVNT	n(HT40)	2437	Ant1	-46.17	-30	Pass
NVNT	n(HT40)	2452	Ant1	-41.44	-30	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission

