



### 8.4.3. 802.11n HT40 MODE

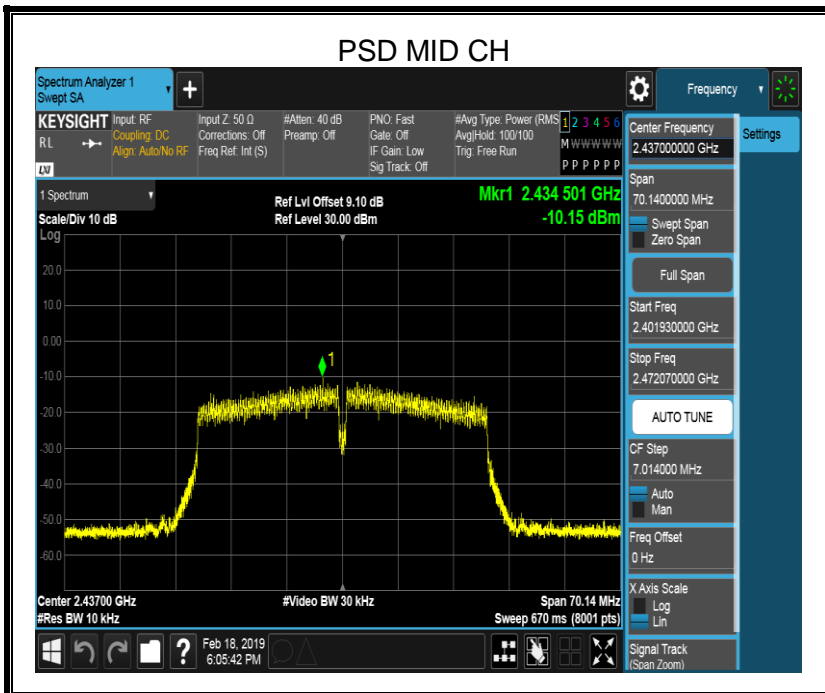
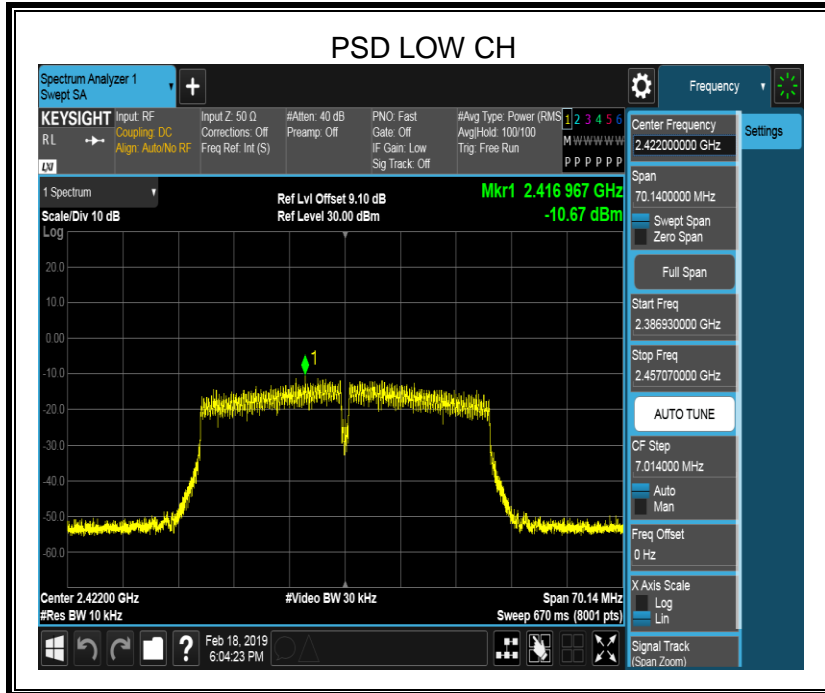
#### MIMO MODE

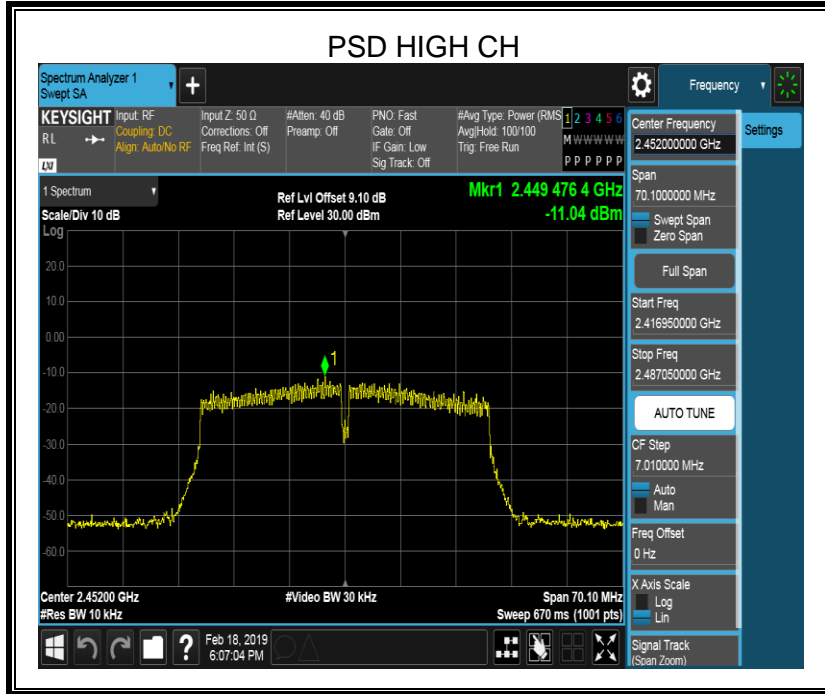
Frequency (MHz)	ANT	Power Spectral Density (dBm/10kHz)		Limit (dBm/3kHz)
		Single	Total	
Low	1	-10.67	-7.99	8
	2	-11.35		
Middle	1	-10.15	-7.40	
	2	-10.69		
High	1	-11.04	-8.50	
	2	-12.03		

Remark: For this product, it has two antennas, antenna1 and antenna2, the 802.11B SISO&802.11G SISO modes are use the SISO technical, but the ant1 and ant2 can transmitter in the same time under these modes. The 802.11N (HT20 & HT40) uses both the SISO and MIMO technical, pre-testing both the SISO and MIMO modes, only the data of worse case is shown in this report.

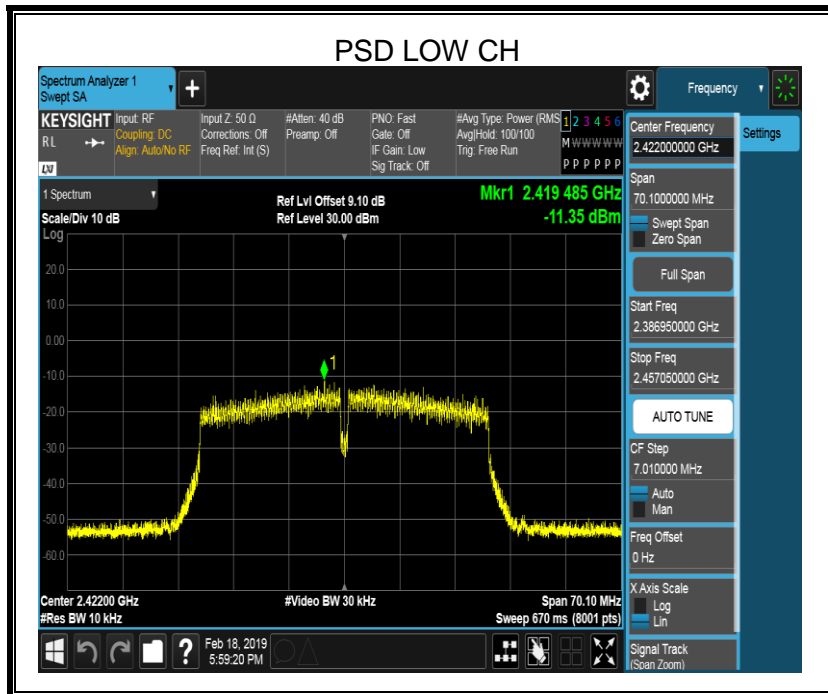


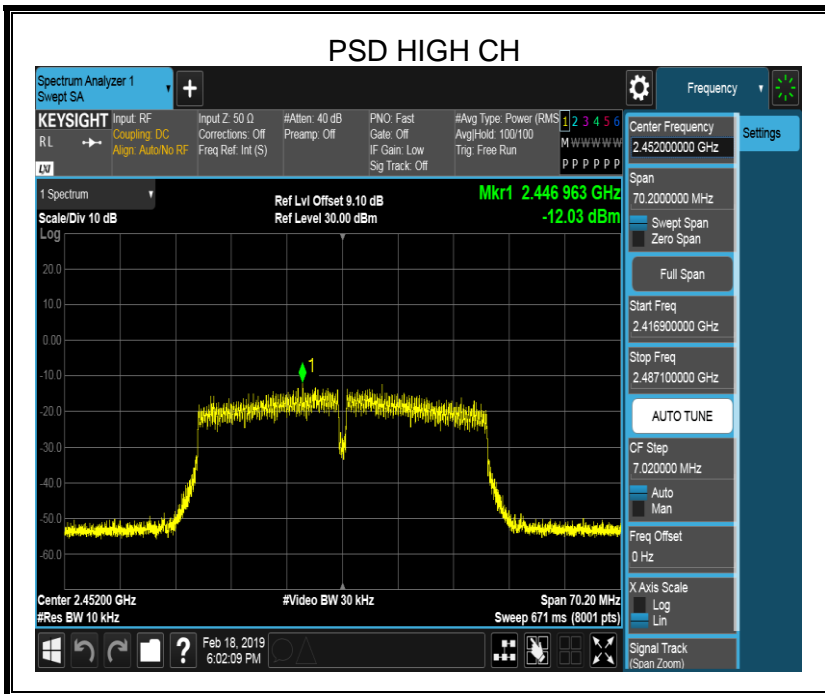
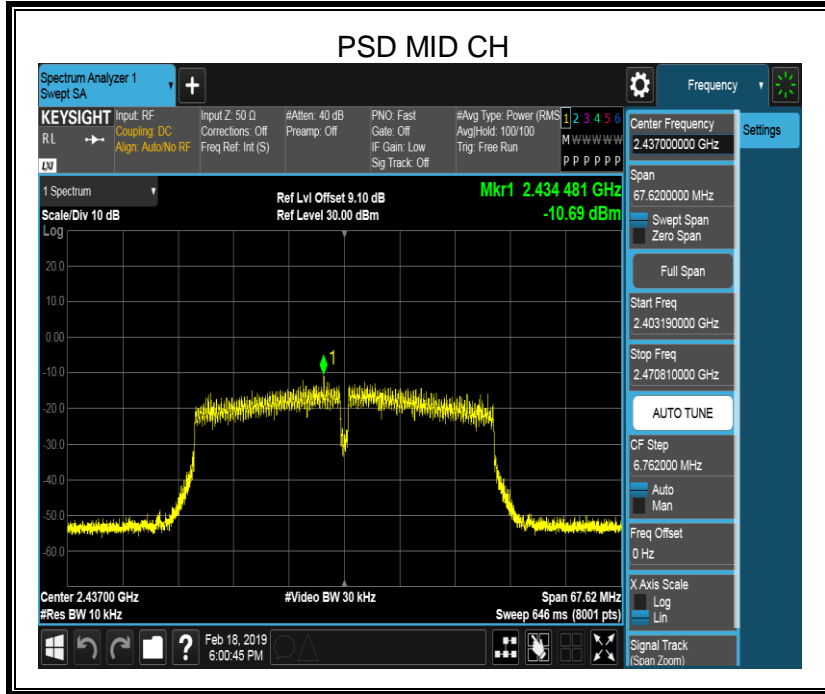
**ANTENNA 1**





## ANTENNA 2







## 8.5. CONDUCTED BANDEGE AND SPURIOUS EMISSIONS

### LIMITS

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power
Remark: For this product, it has two antennas, antenna1 and antenna2, the 802.11B SISO&802.11G SISO modes are use the SISO technical, but the ant1 and ant2 can transmitter in the same time under these modes. The 802.11N(HT20&HT40) uses both the SISO and MIMO technical, pre-testing both the SISO and MIMO modes, only the data of worse case is shown in this report.		

### TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	100K
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

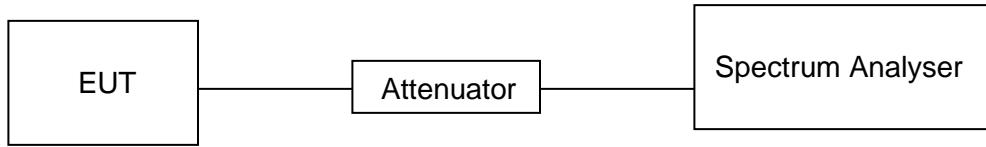
Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100K
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level.



**TEST SETUP**



**TEST ENVIRONMENT**

Temperature	25°C	Relative Humidity	58%
Atmosphere Pressure	101kPa	Test Voltage	DC 12.0V

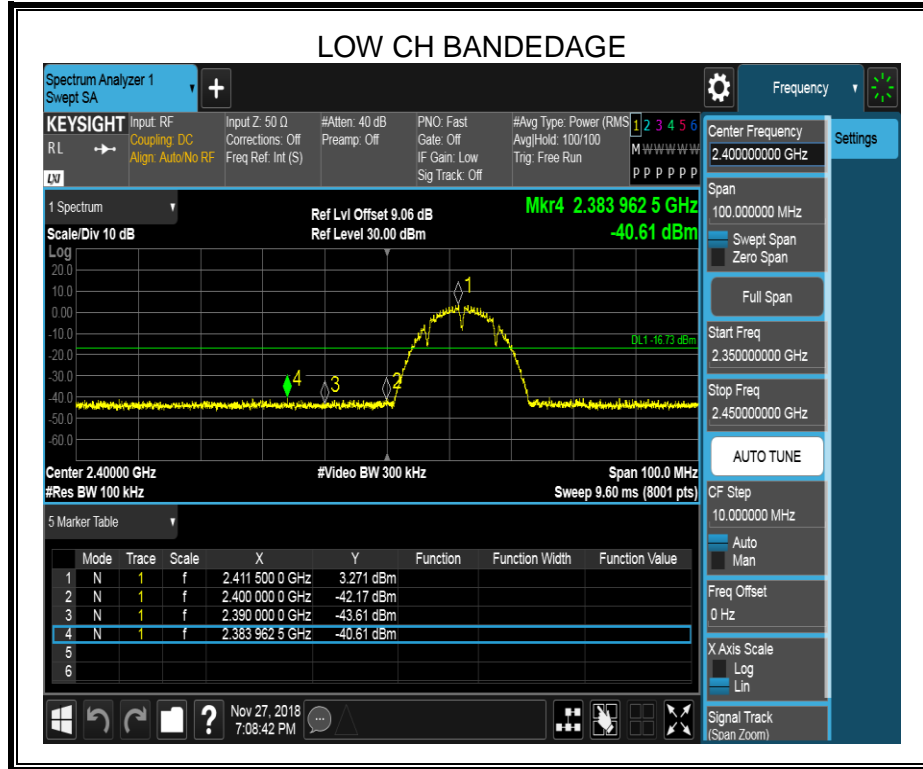
**RESULTS**



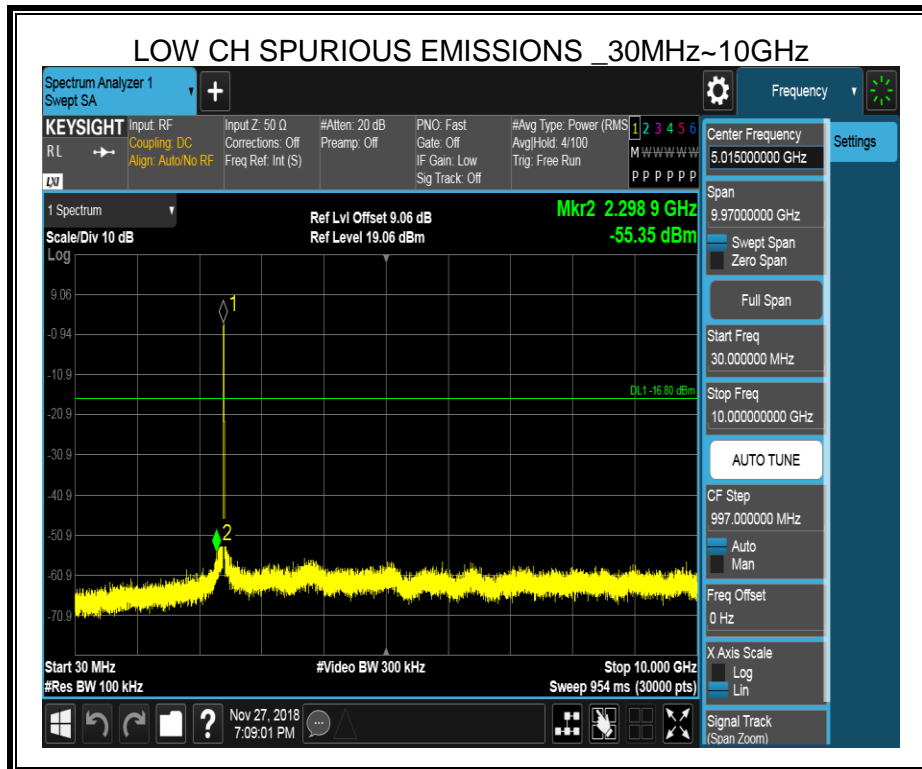
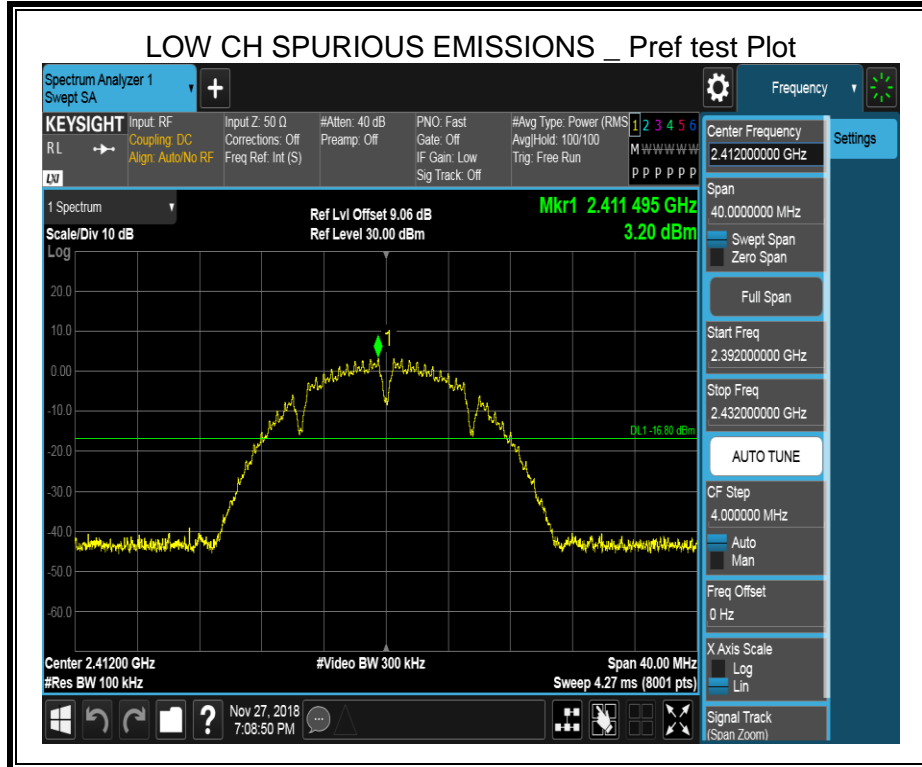
### 8.5.1. 802.11b MODE

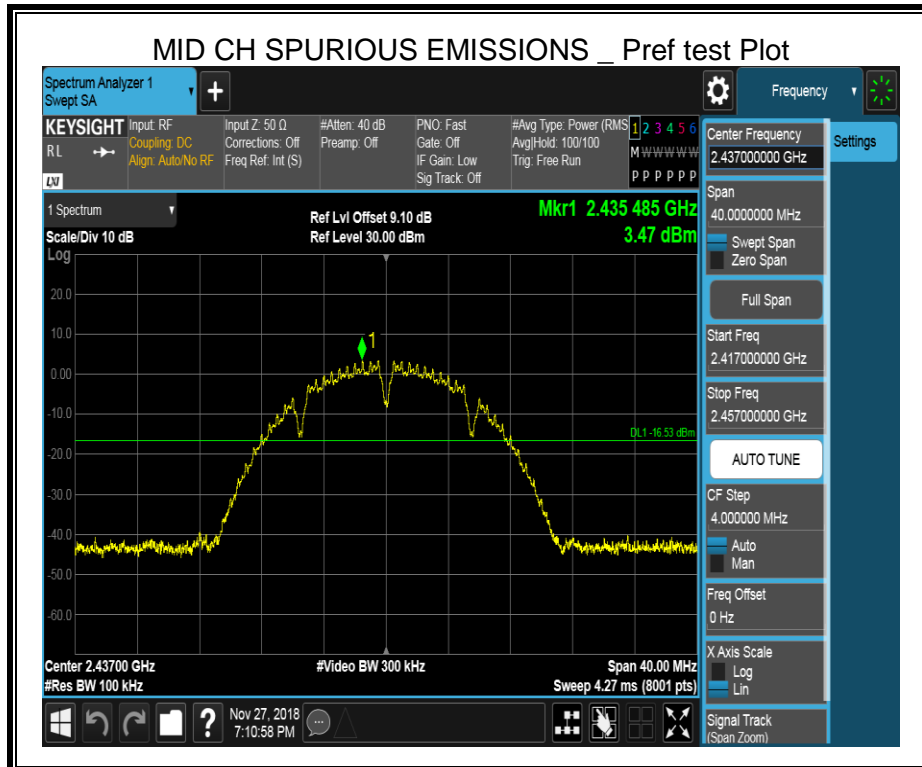
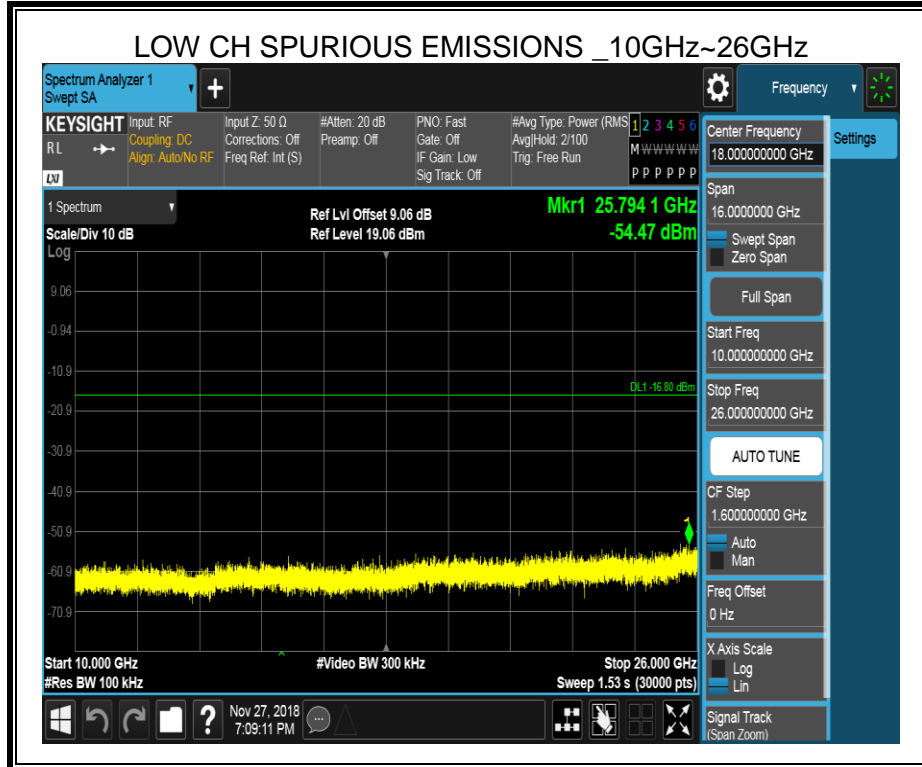
#### SISO MODE

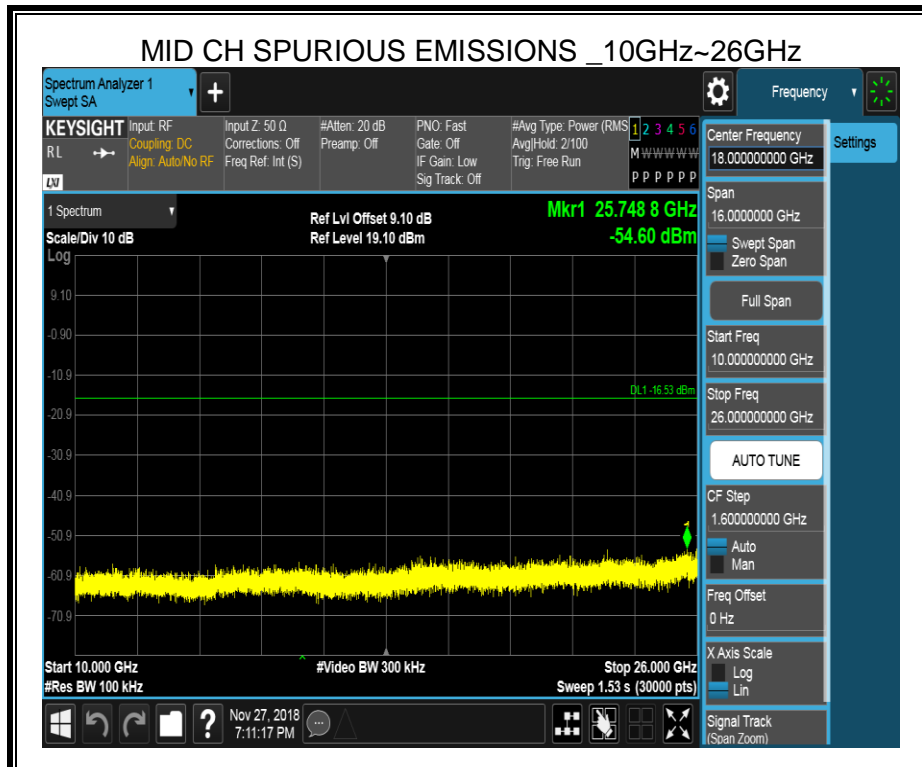
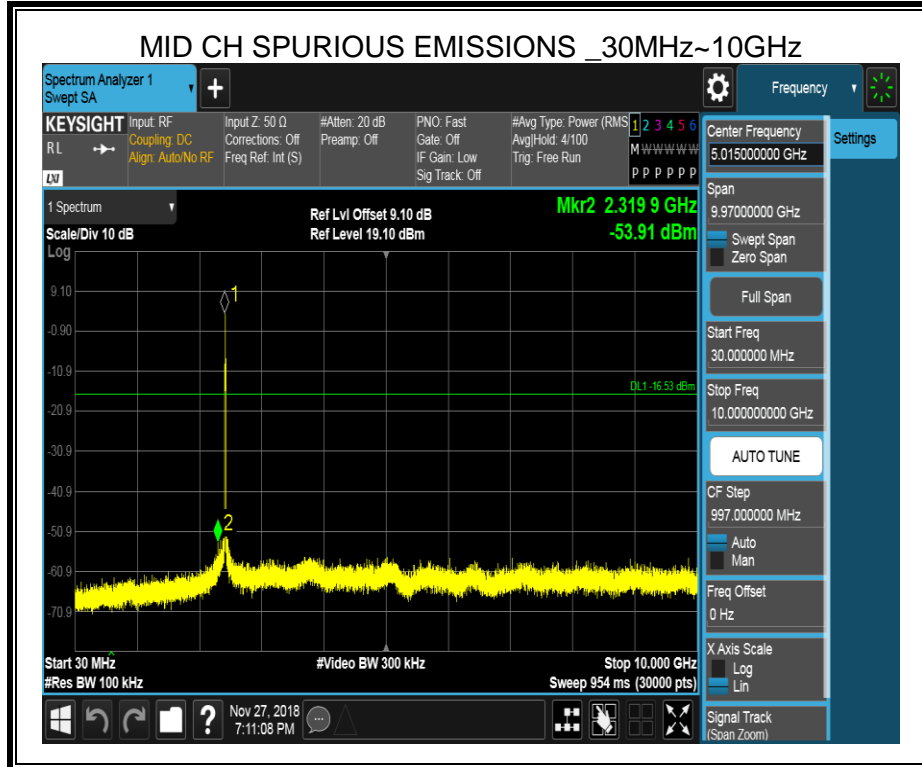
#### ANTENNA 1

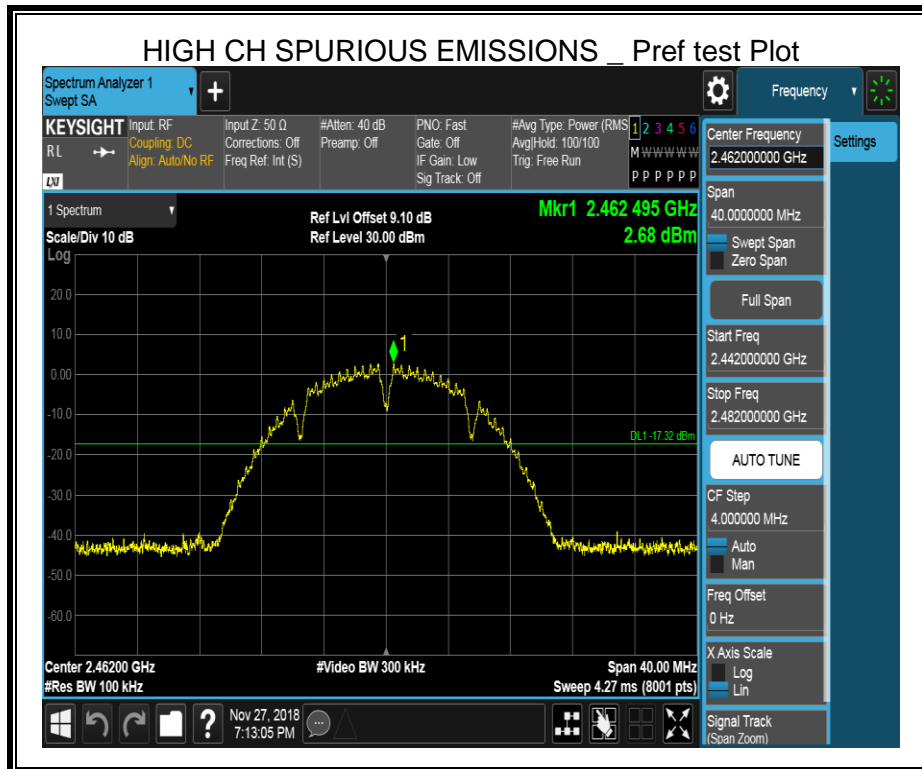
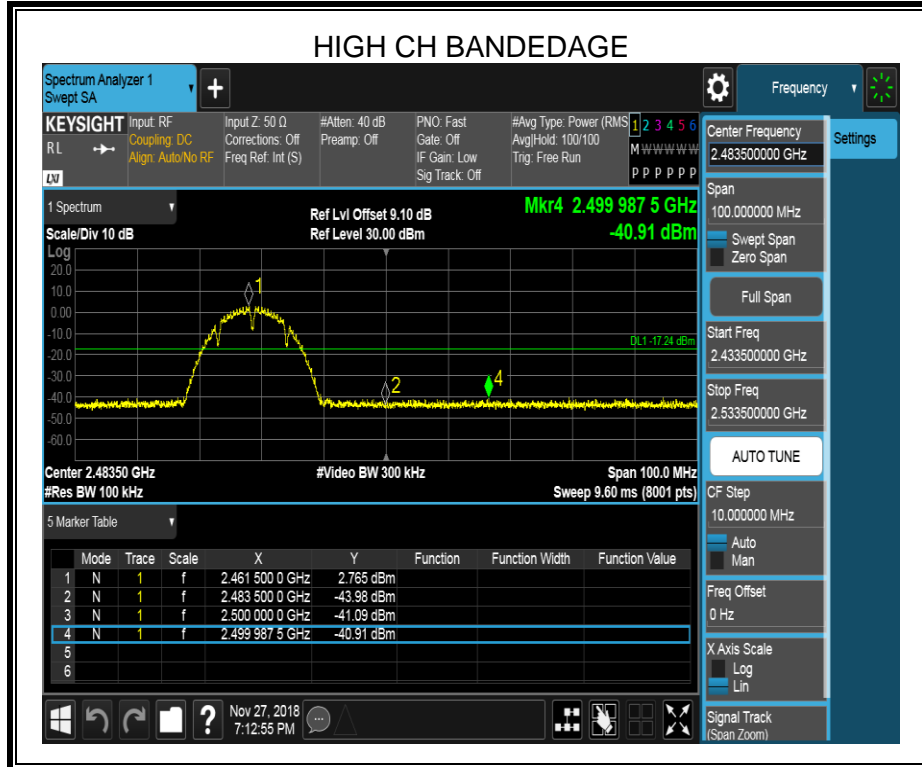


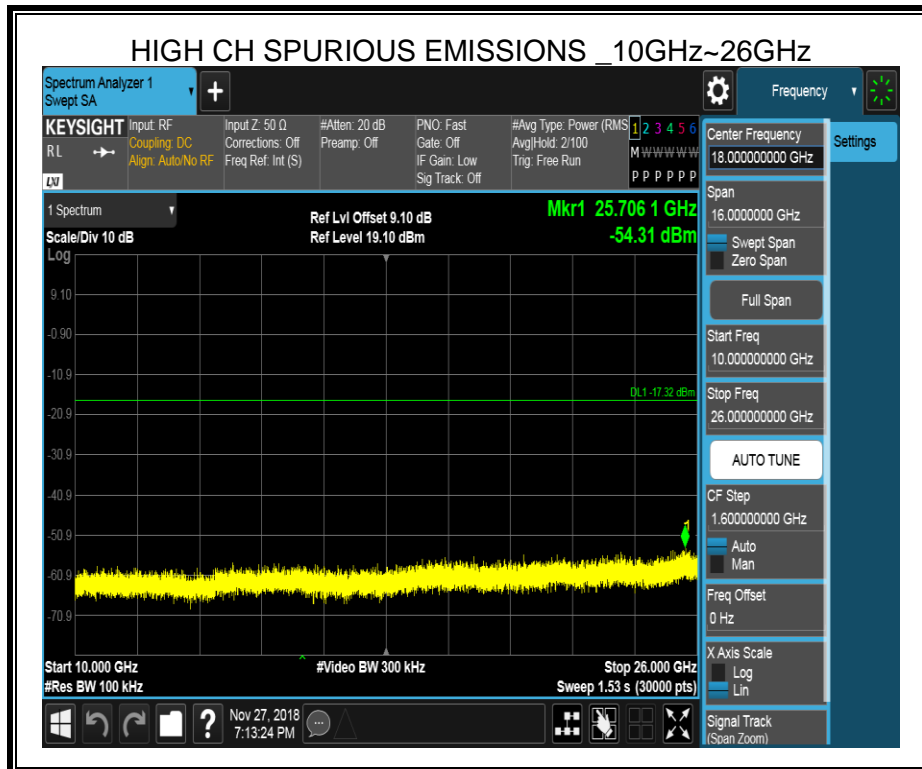
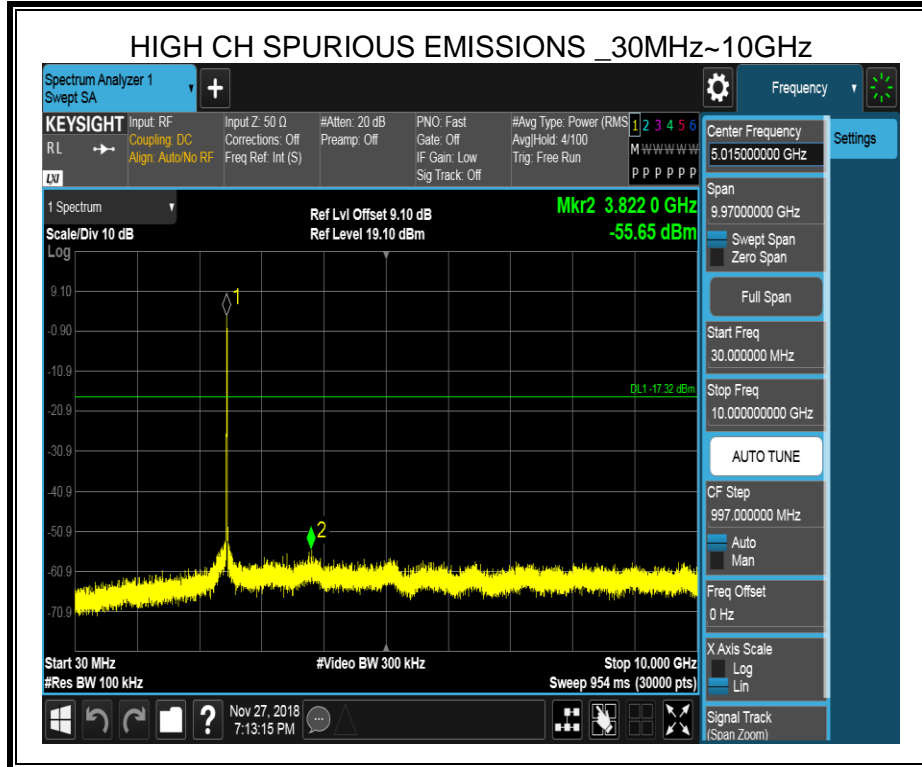






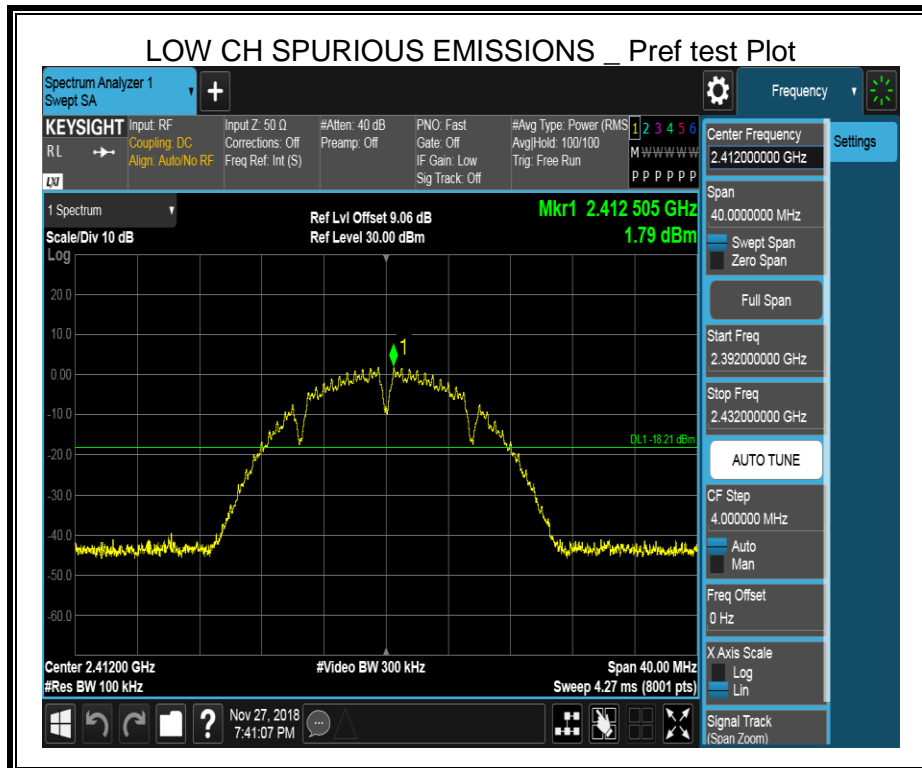
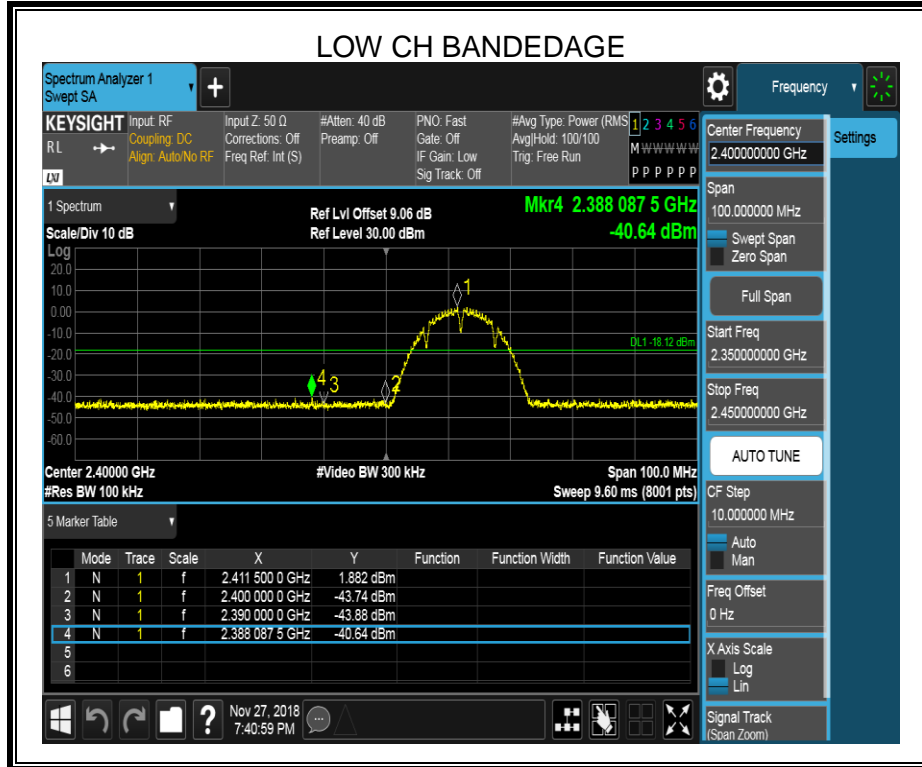


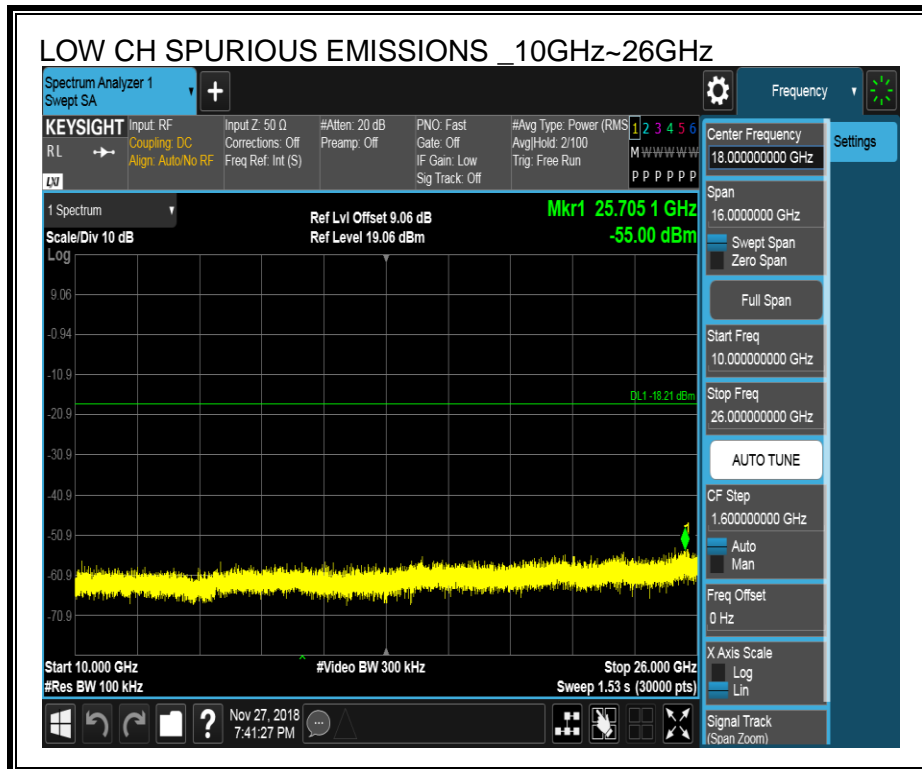
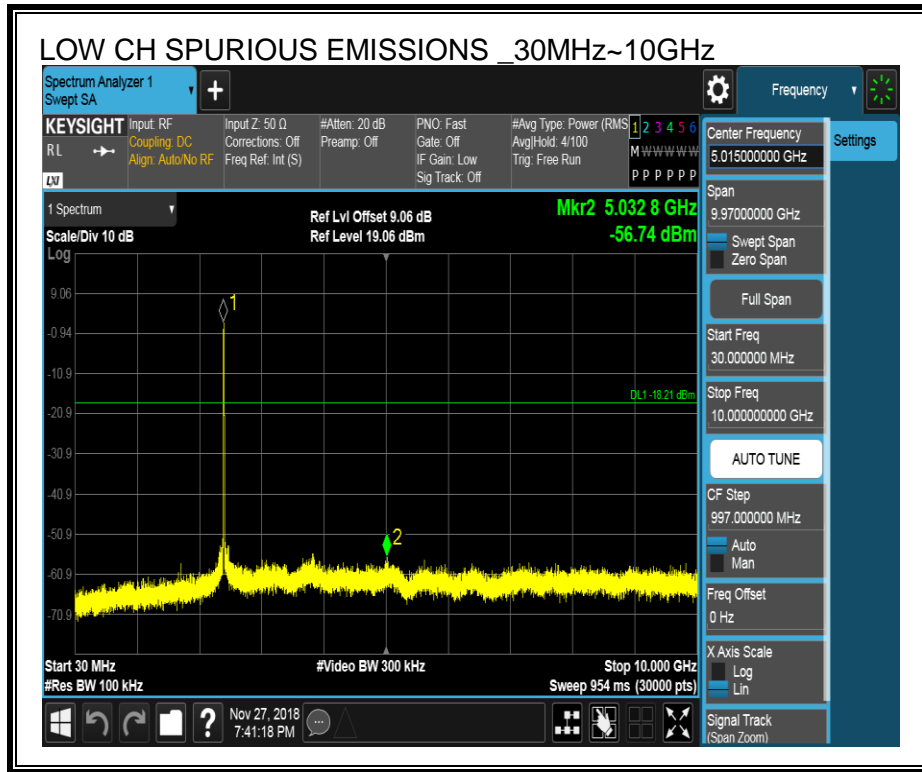


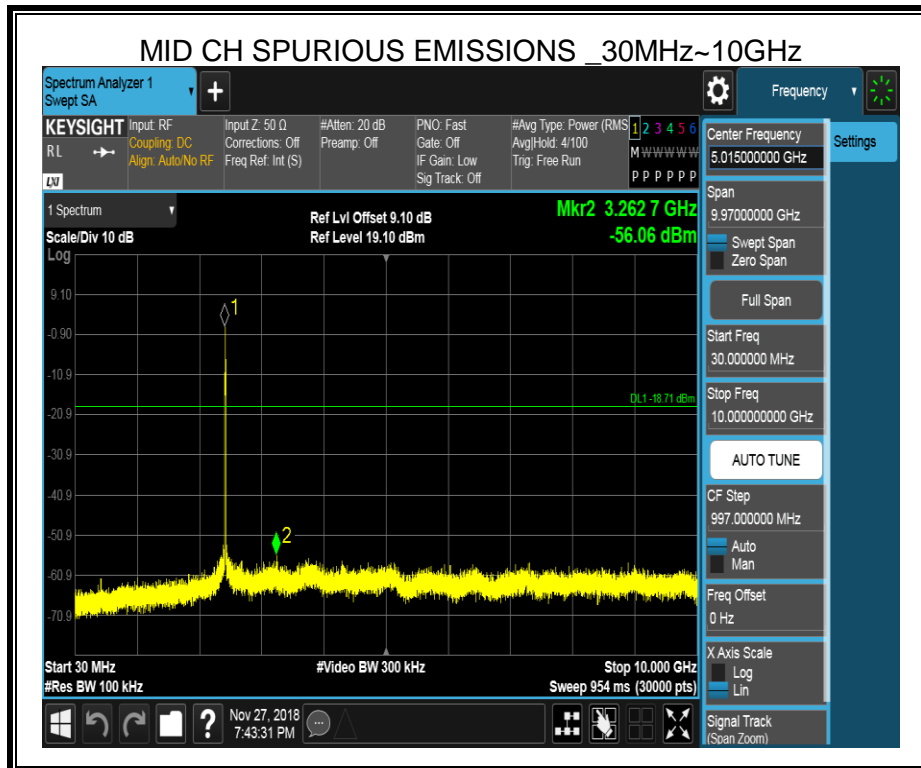
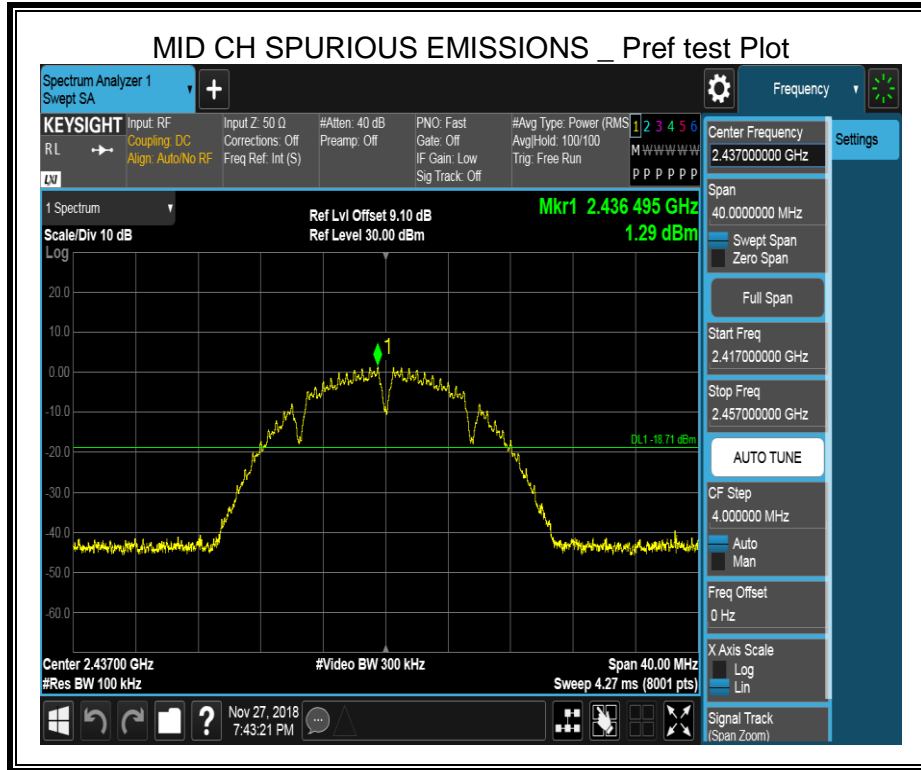




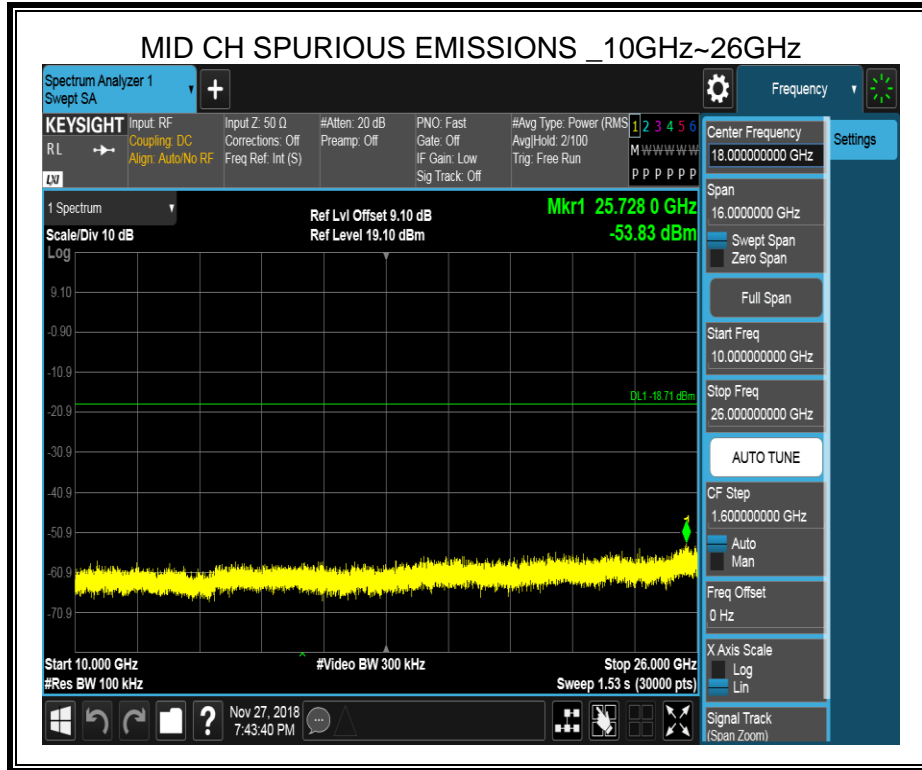
ANTENNA 2

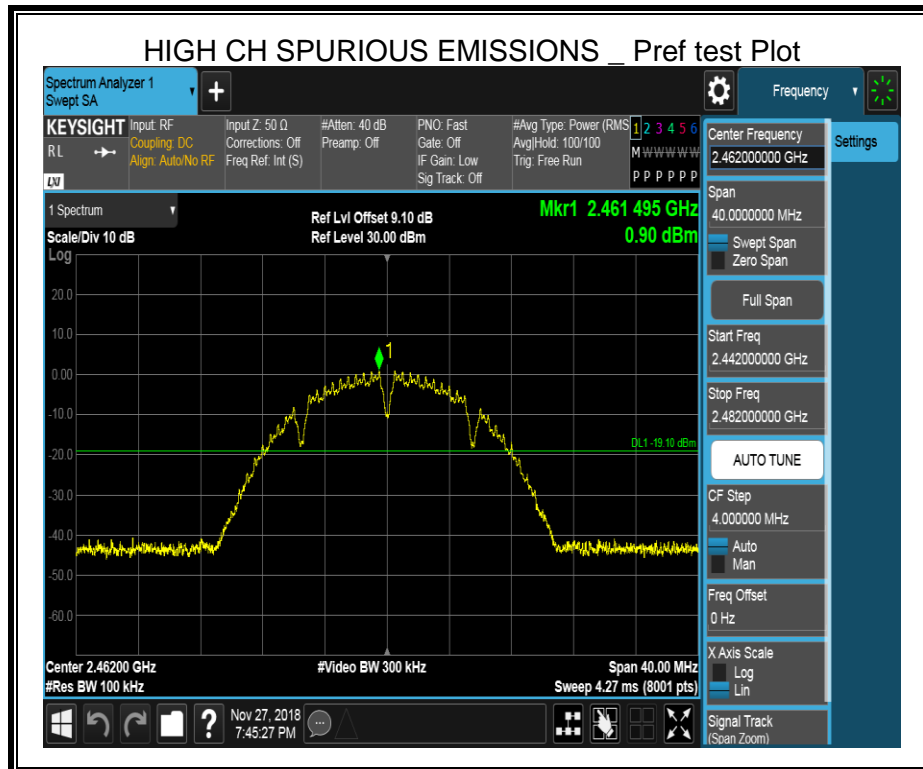
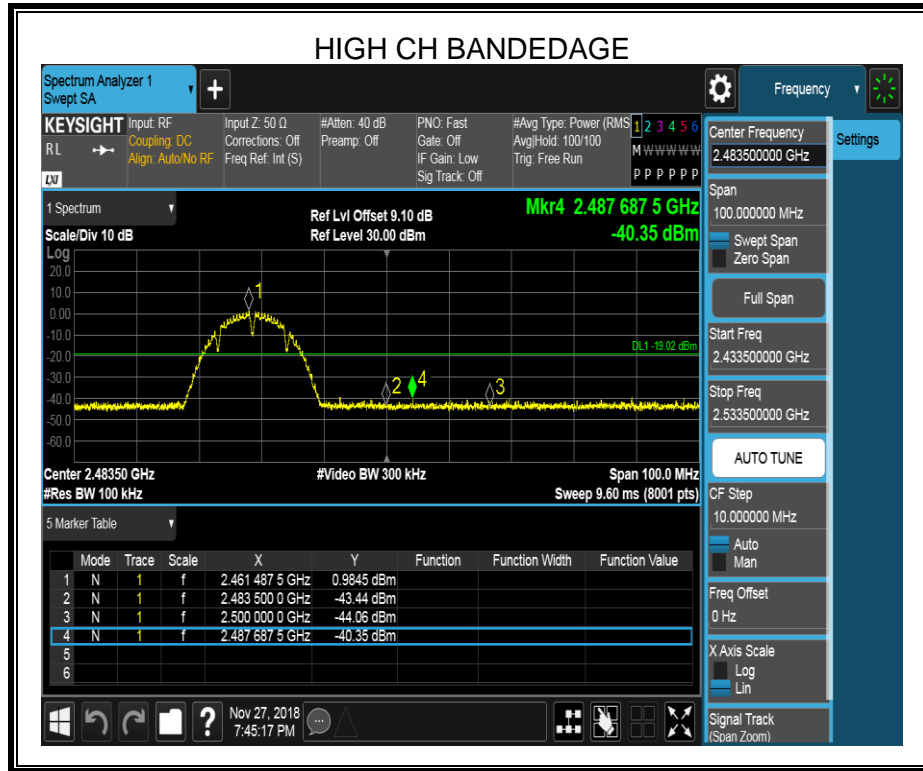


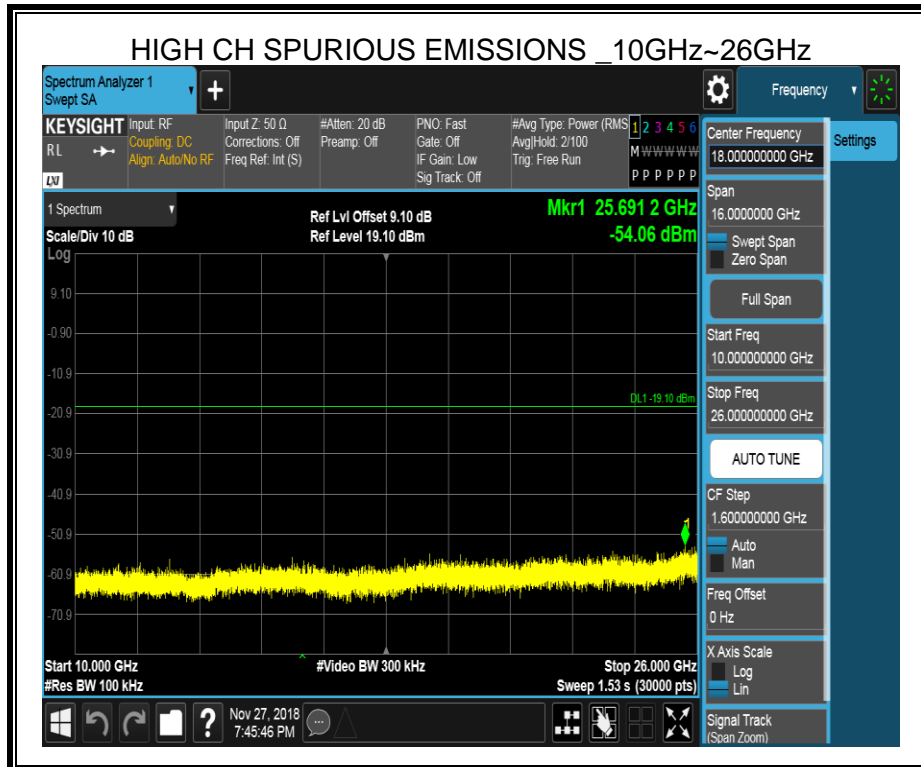
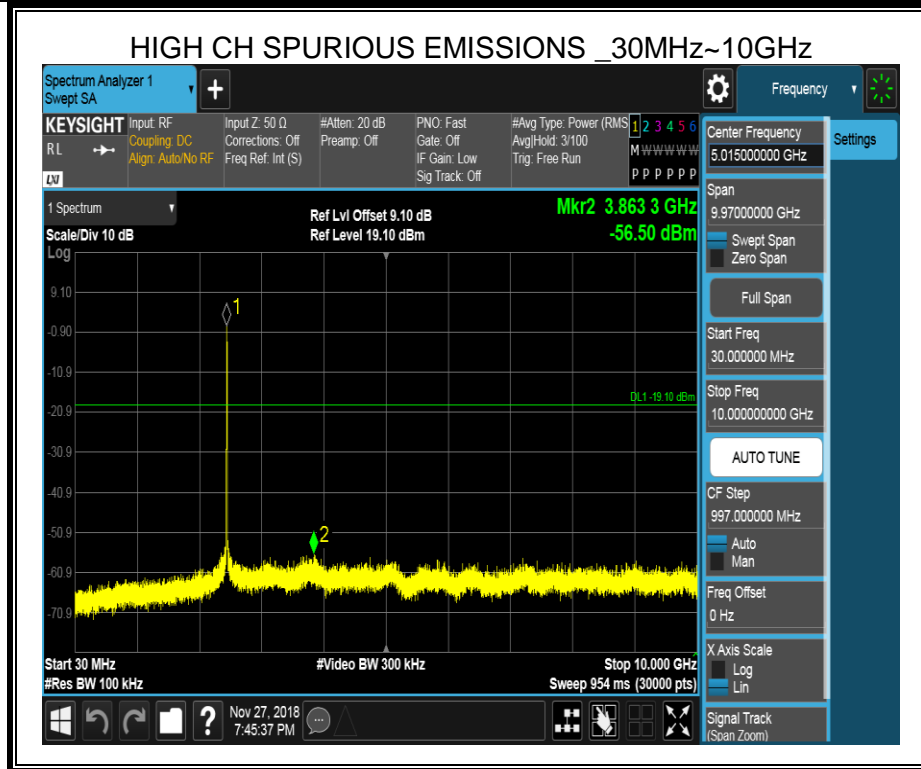










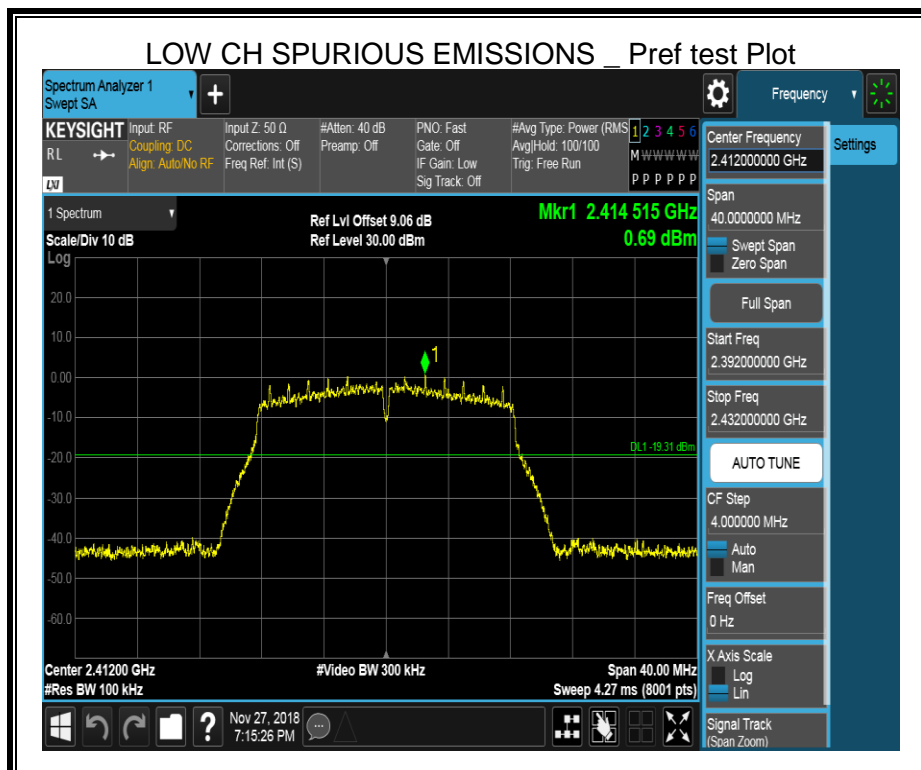
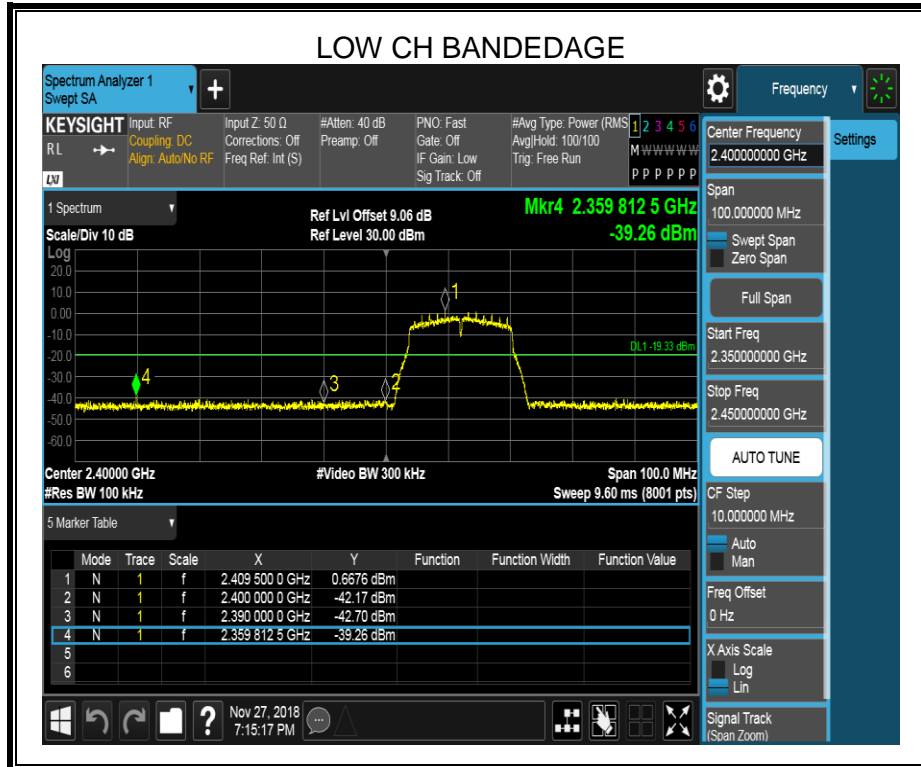


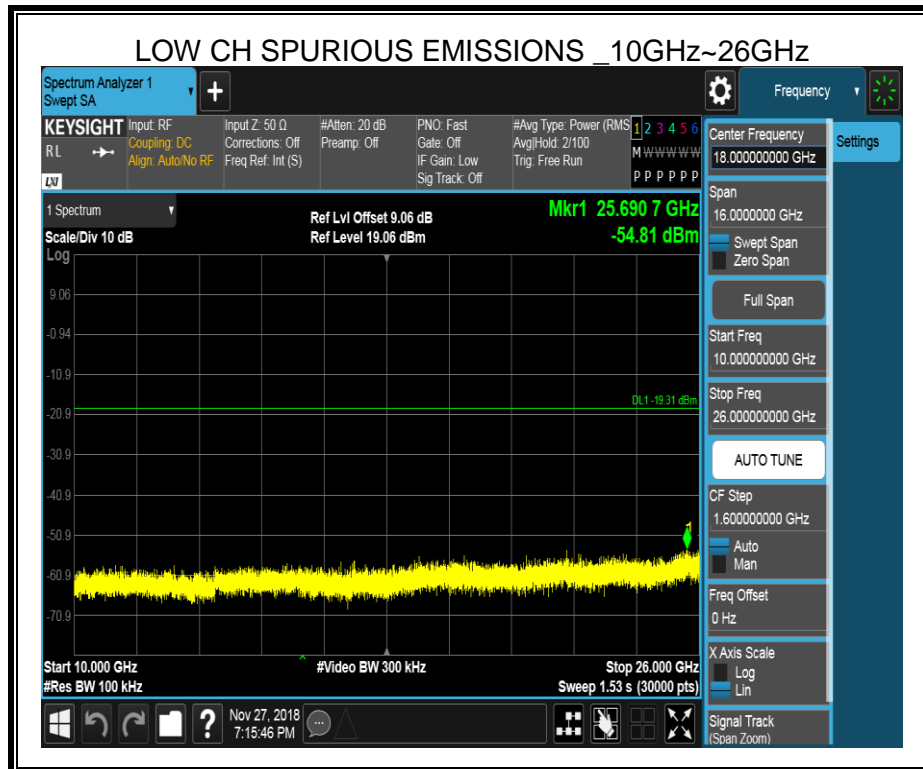
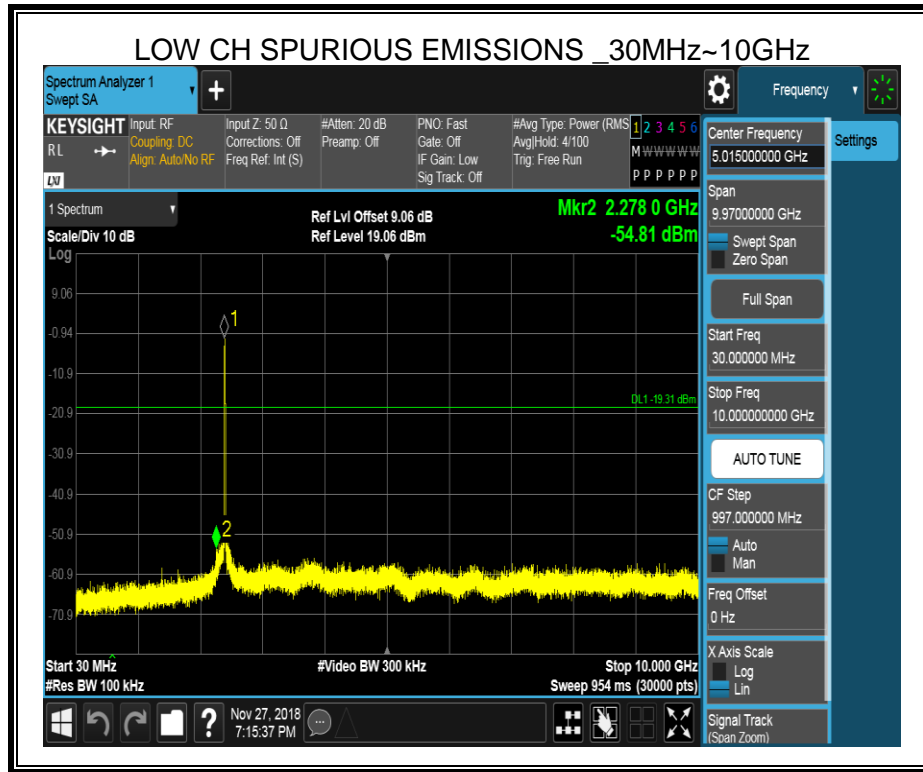


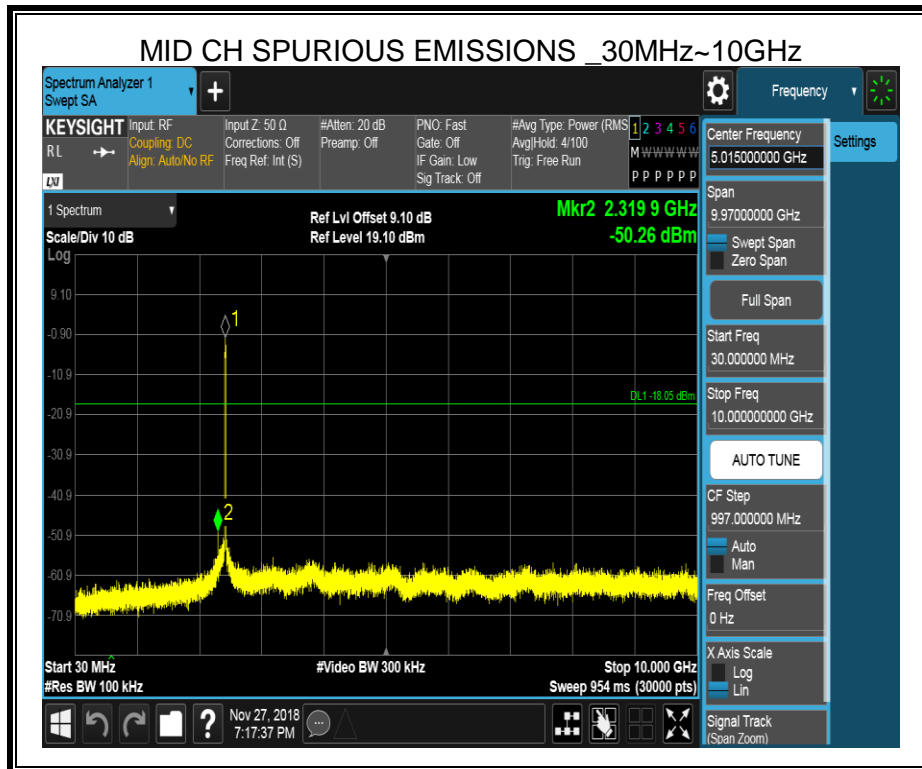
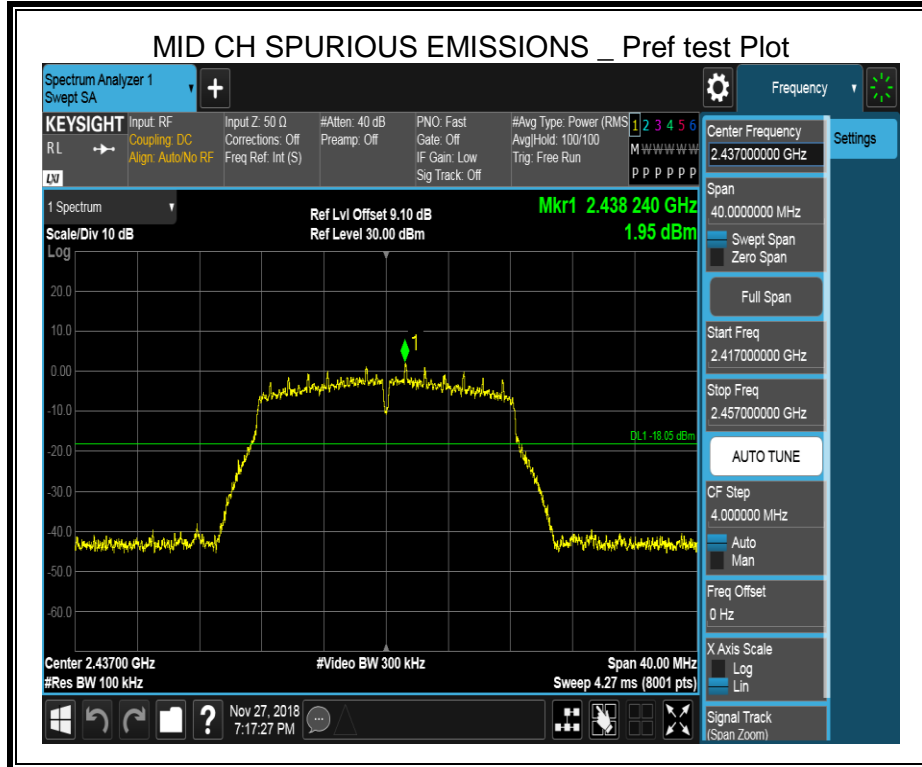
### 8.5.2. 802.11g MODE

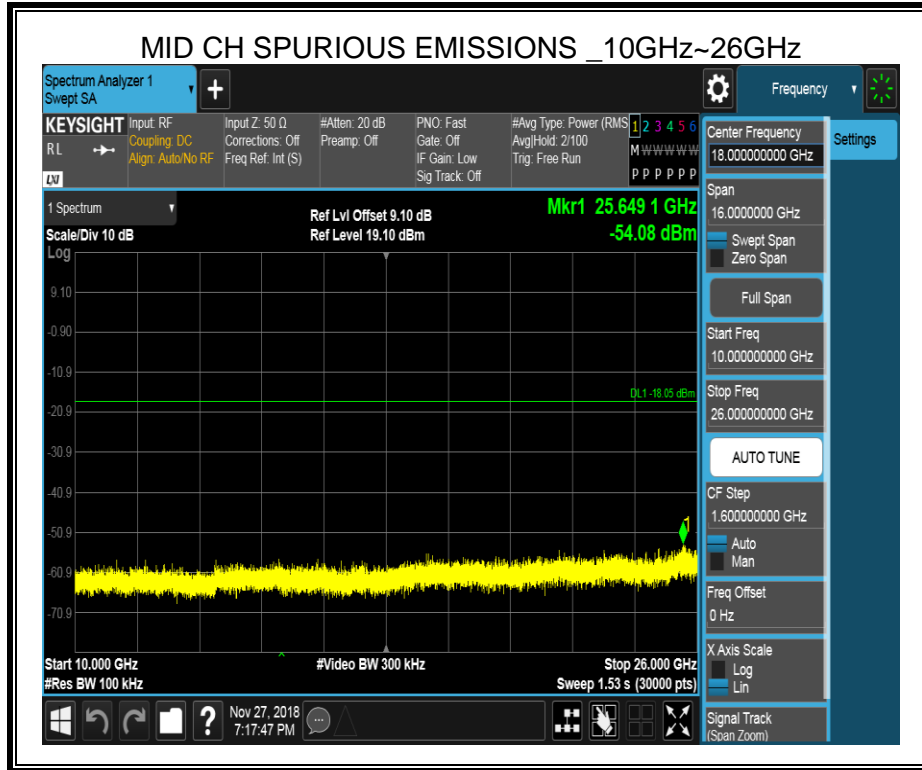
#### SISO MODE

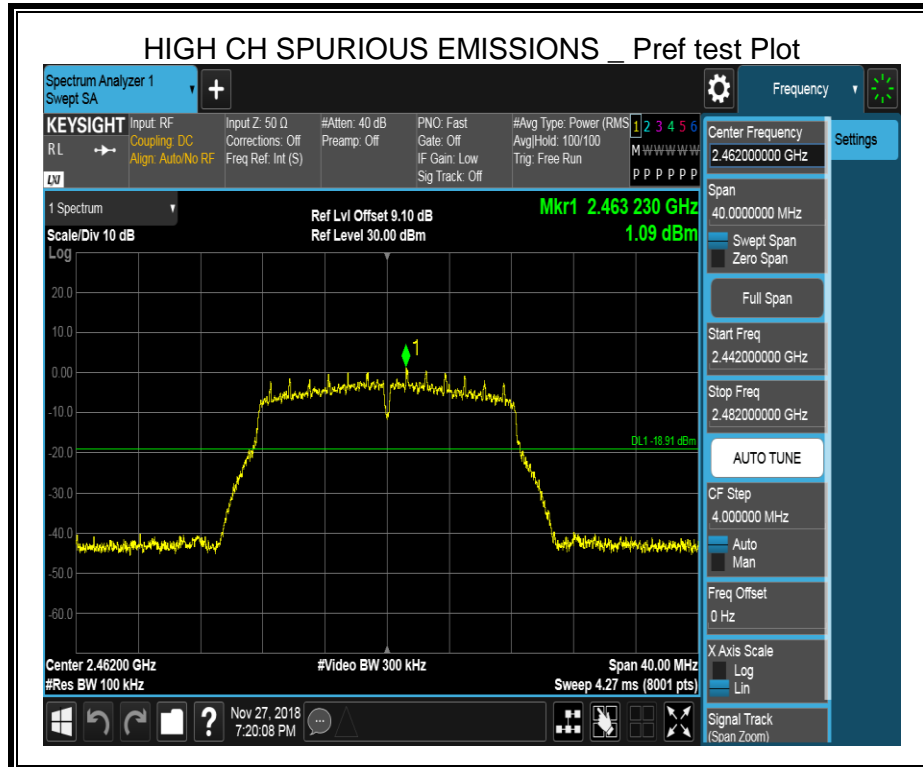
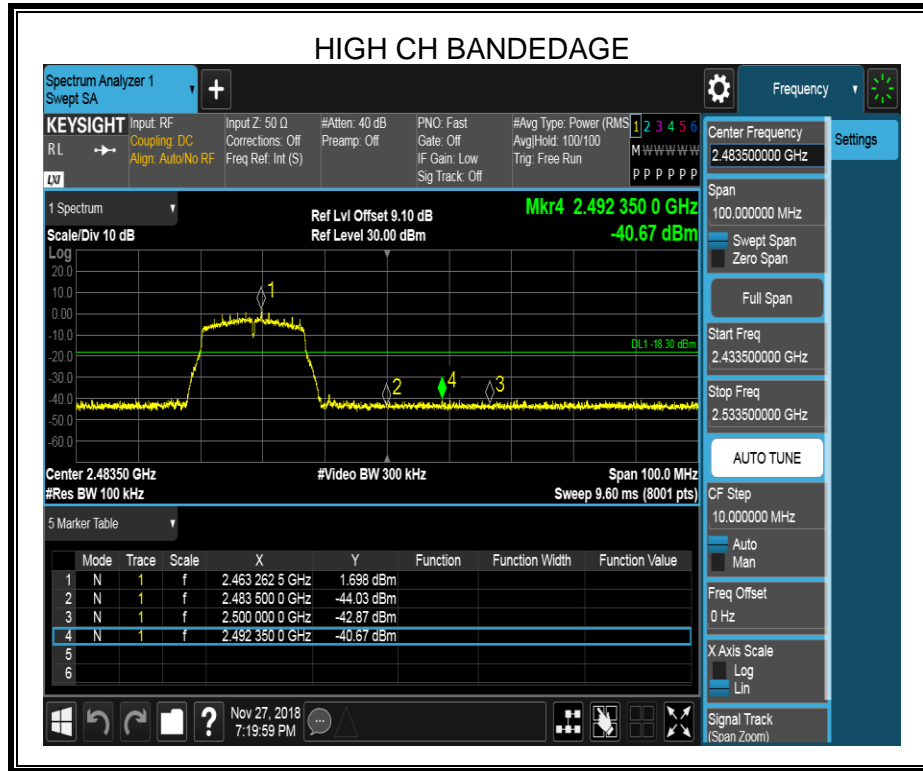
#### ANTENNA 1



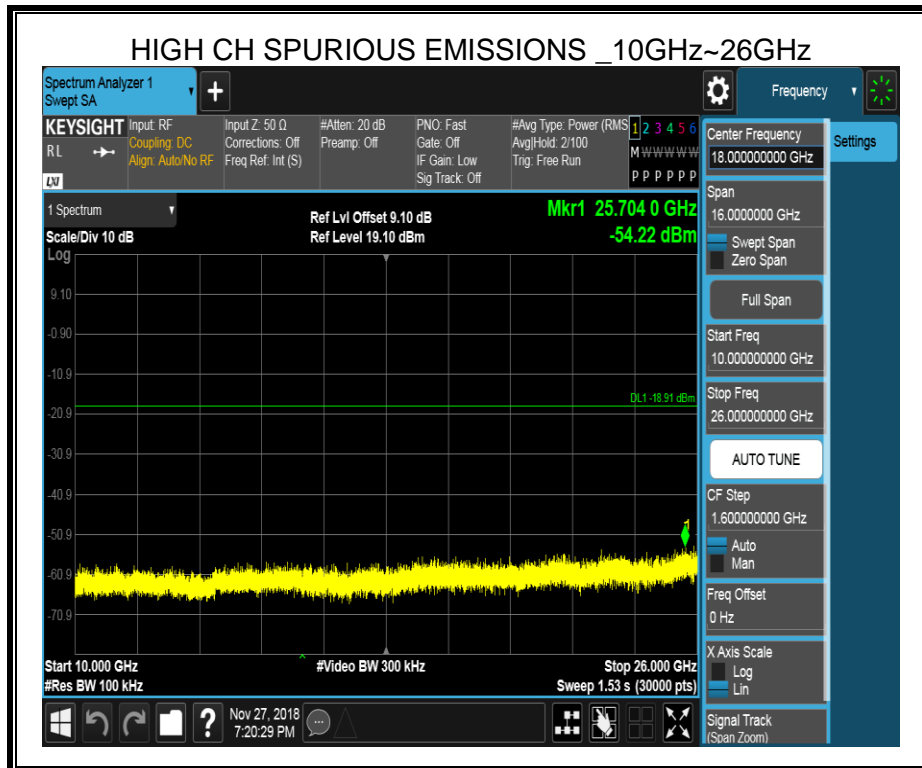
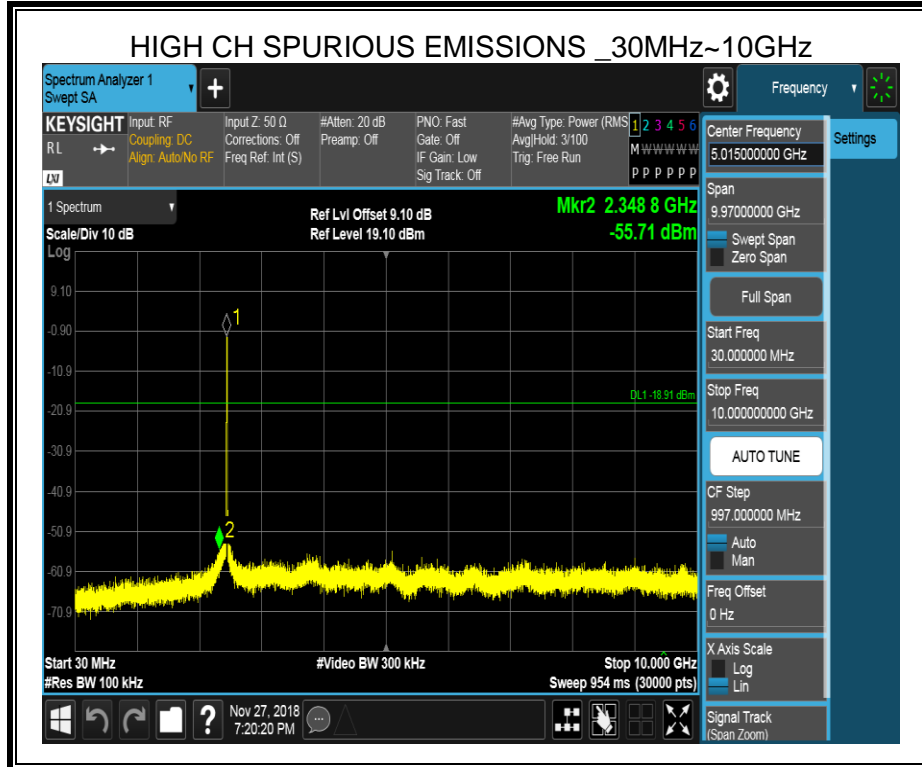














ANTENNA 2

