

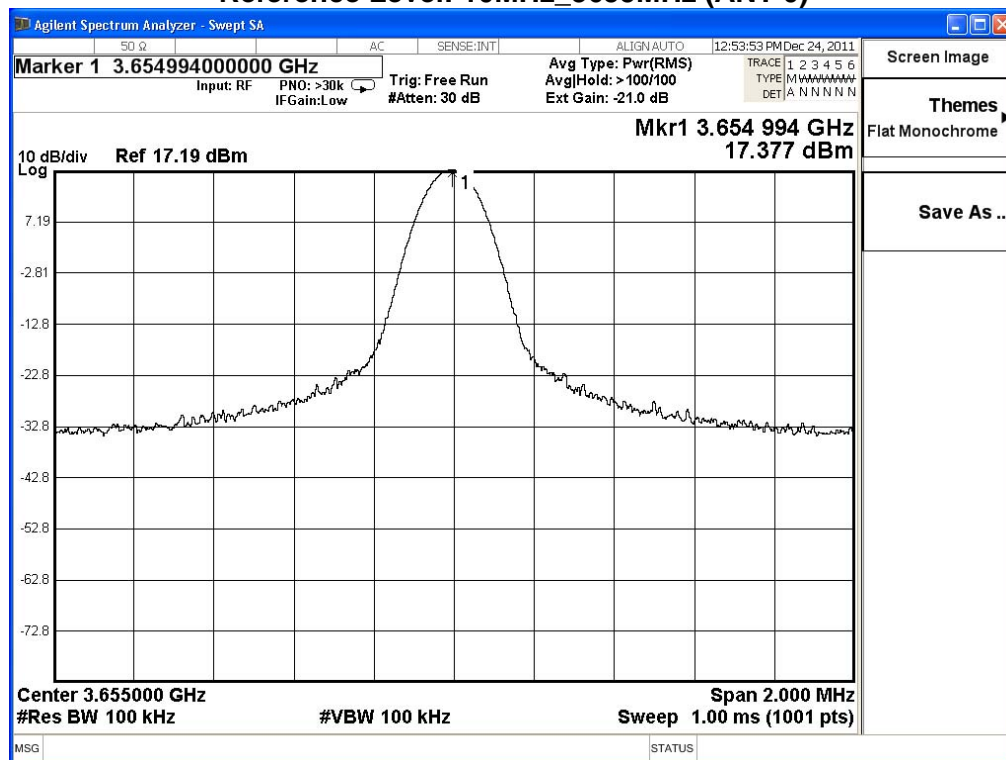
Product	CBS 3.65GHz		
Test Item	Spectrum Emission Mask		
Test Mode	Mode 10: Transmit (10MHz BW_QPSK3/4) Mode 11: Transmit (10MHz BW_16QAM1/2) Mode 12: Transmit (10MHz BW_64QAM5/6)		
Date of Test	2011/12/24	Test Site	SR7

**10MHz Bandwidth, Antenna Gain: 16dBi**

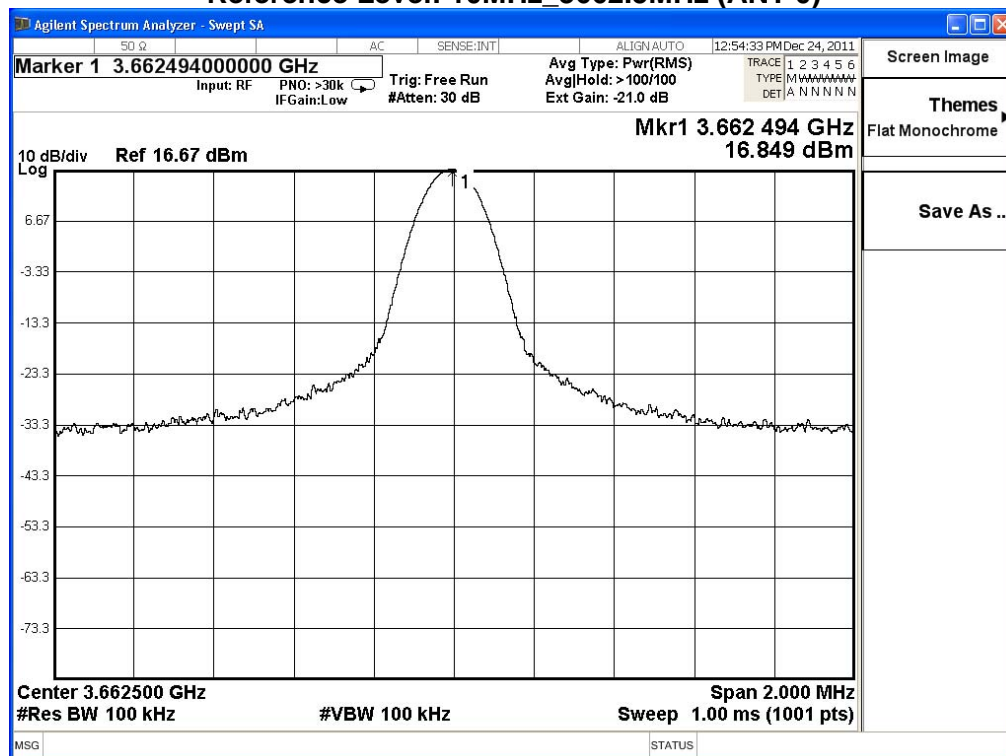
Frequency (MHz)	Modulation	Test Result
3655.0	QPSK3/4	PASS
3662.5	QPSK3/4	PASS
3670.0	QPSK3/4	PASS
Frequency (MHz)	Modulation	Test Result
3655.0	16QAM1/2	PASS
3662.5	16QAM1/2	PASS
3670.0	16QAM1/2	PASS
Frequency (MHz)	Modulation	Test Result
3655.0	64QAM2/3	PASS
3662.5	64QAM2/3	PASS
3670.0	64QAM2/3	PASS

Note: Set the RBW to 100kHz, and the mask limit was be reduced  $10\log(1\text{MHz}/100\text{kHz})=10\text{dB}$ .

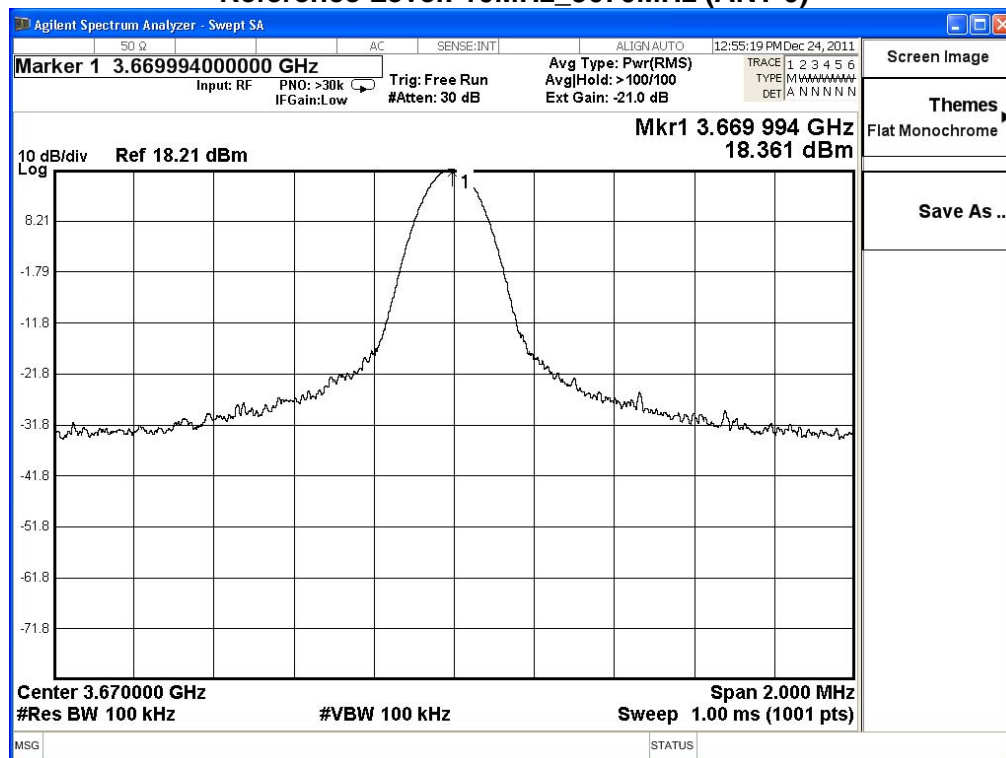
Reference Level: 10MHz\_3655MHz (ANT 0)



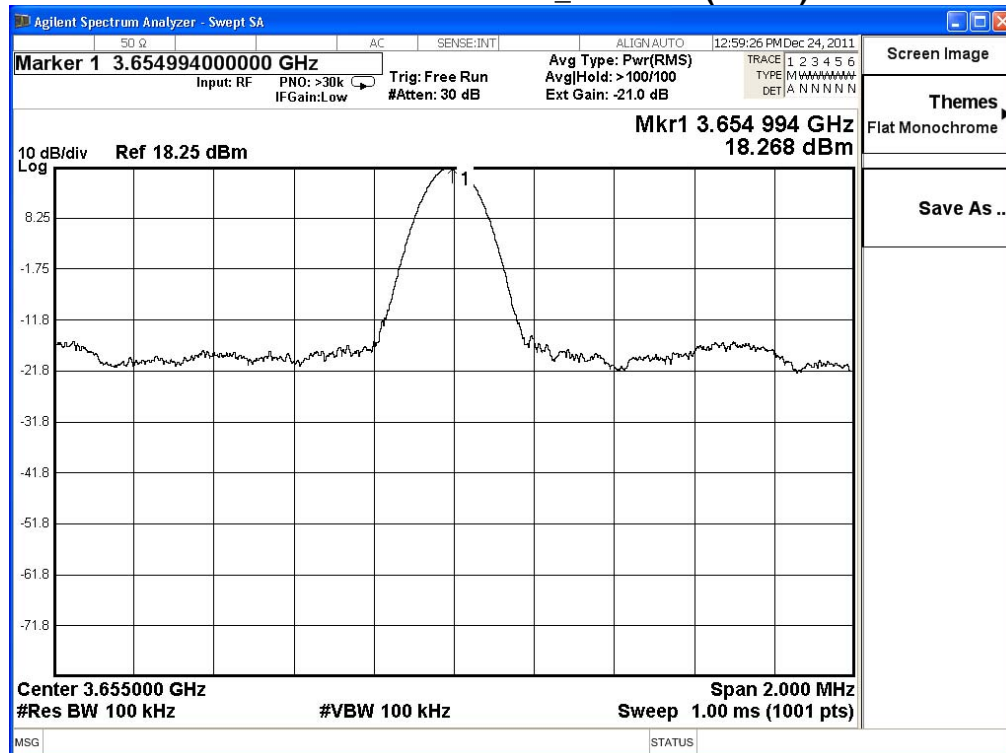
Reference Level: 10MHz\_3662.5MHz (ANT 0)



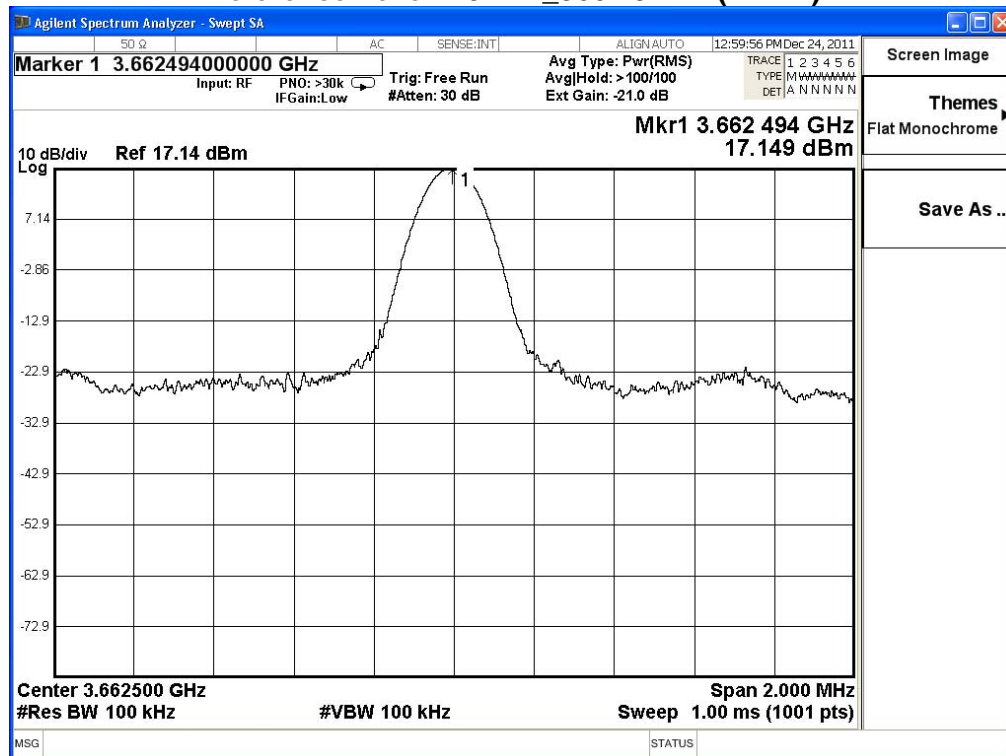
Reference Level: 10MHz\_3670MHz (ANT 0)



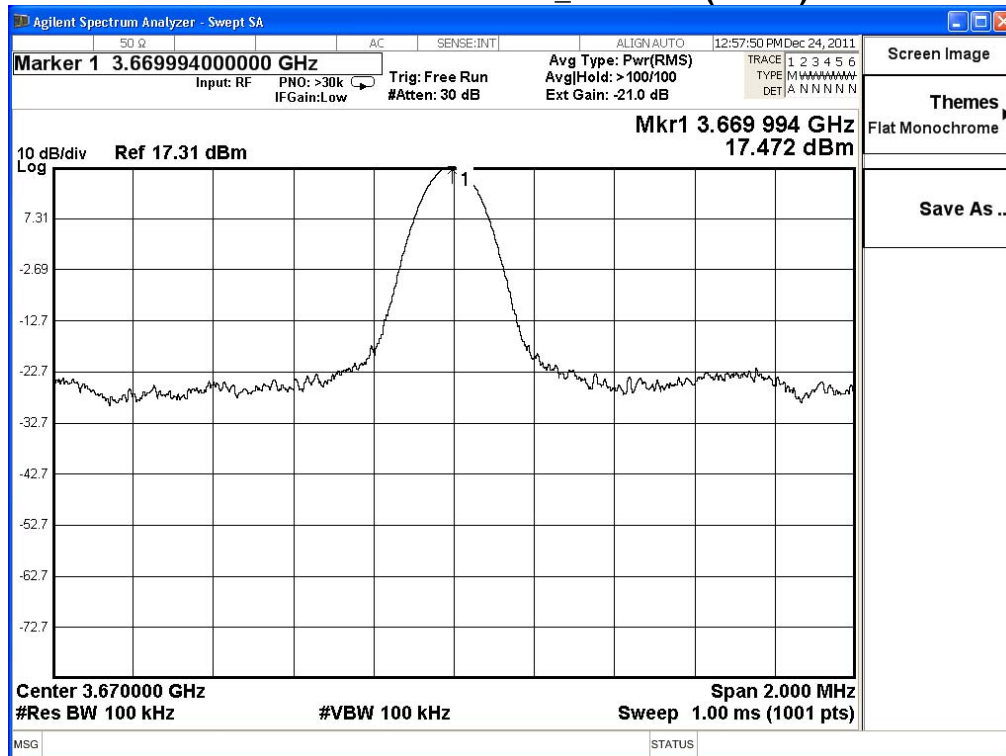
Reference Level: 10MHz\_3655MHz (ANT 1)



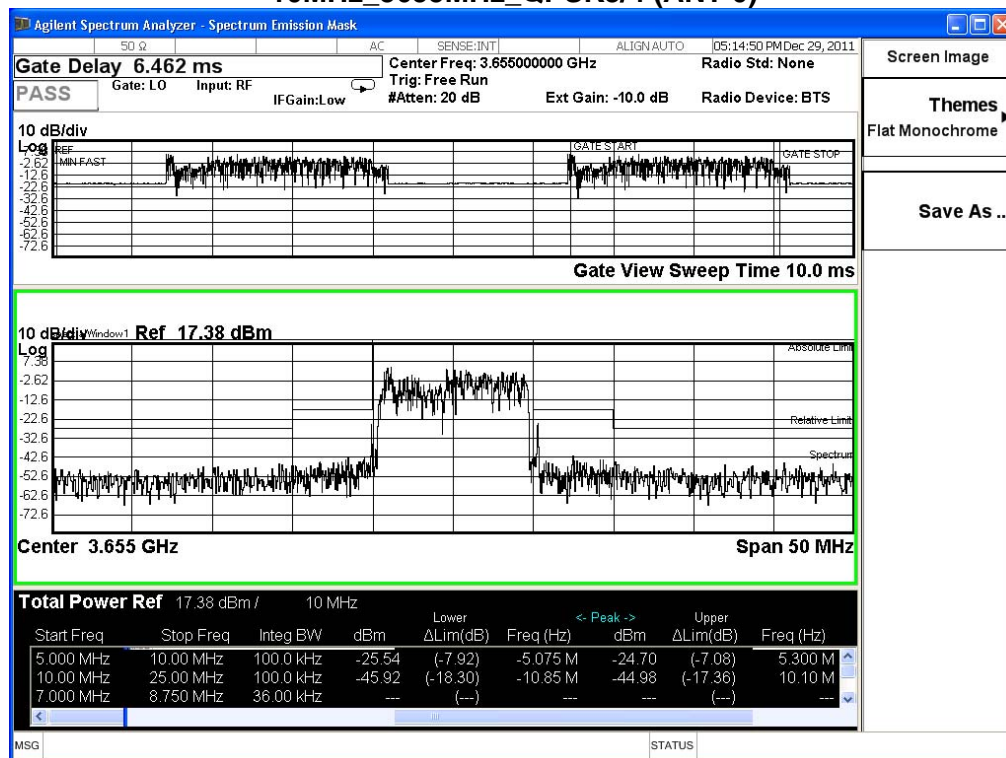
Reference Level: 10MHz\_3662.5MHz (ANT 1)



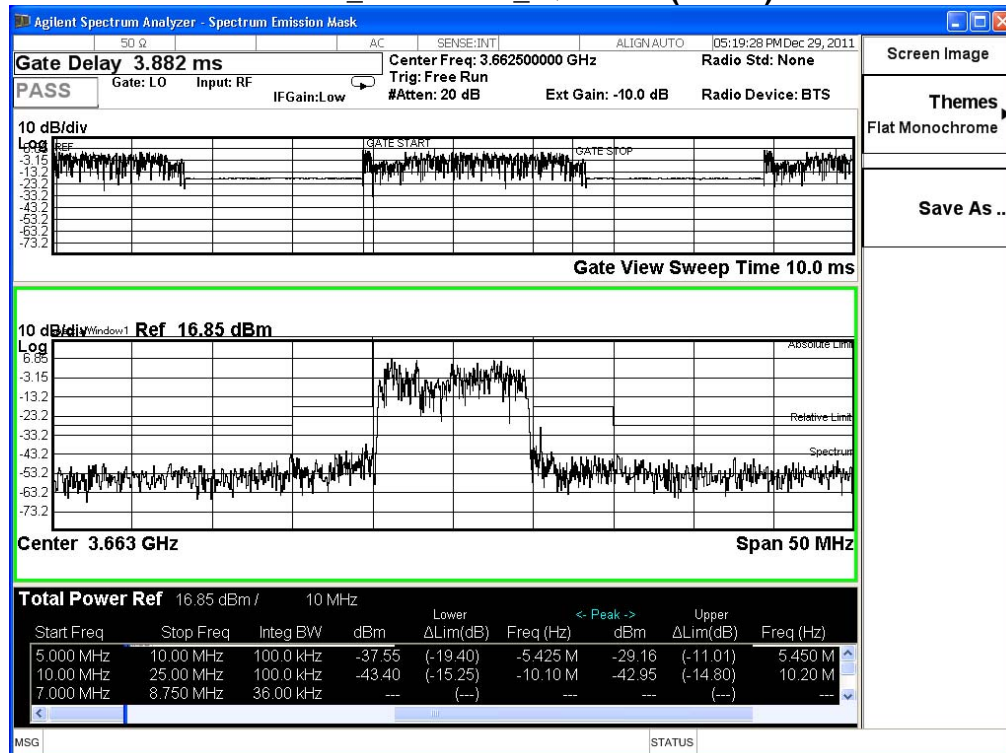
Reference Level: 10MHz\_3670MHz (ANT 1)



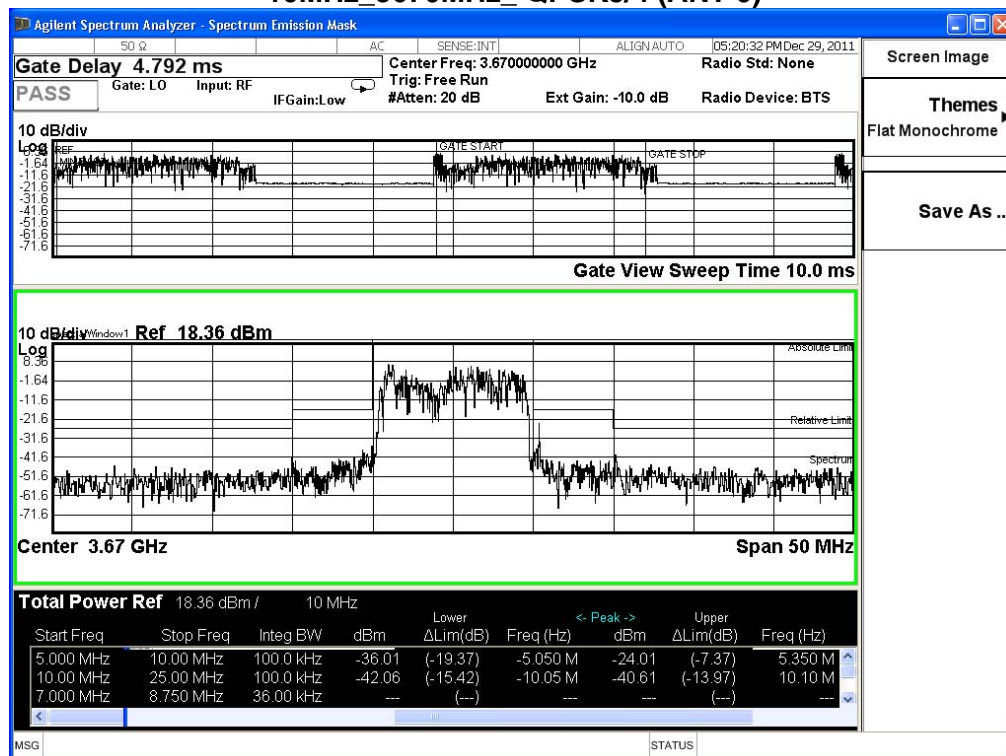
### 10MHz\_3655MHz\_QPSK3/4 (ANT 0)



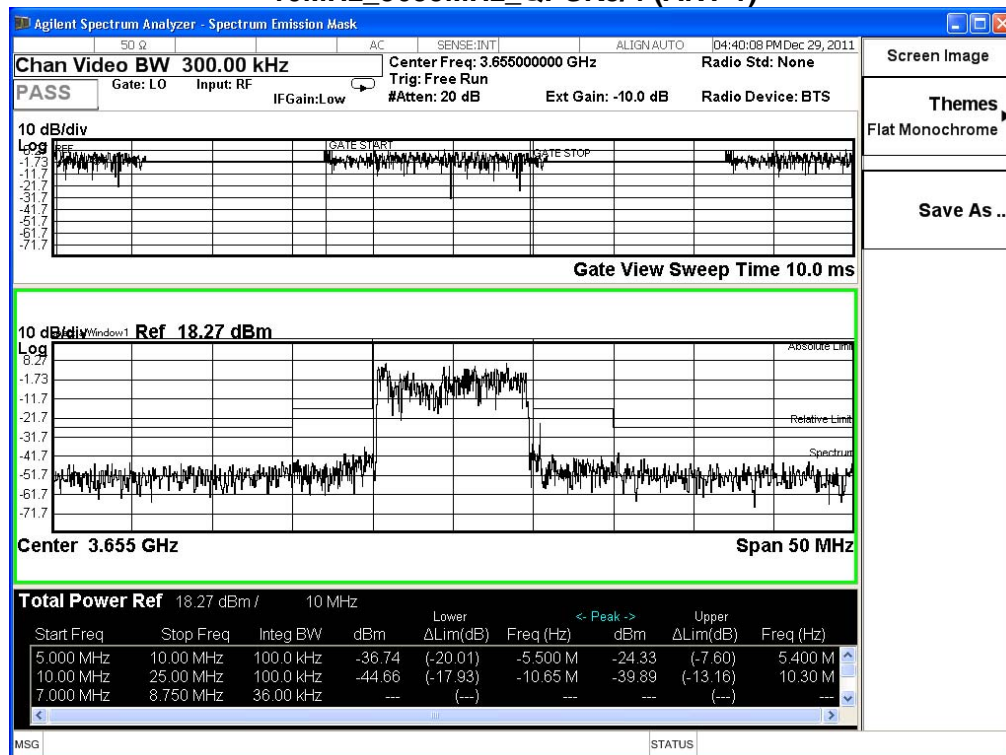
### 10MHz\_3662.5MHz\_QPSK3/4 (ANT 0)



### 10MHz\_3670MHz\_QPSK3/4 (ANT 0)

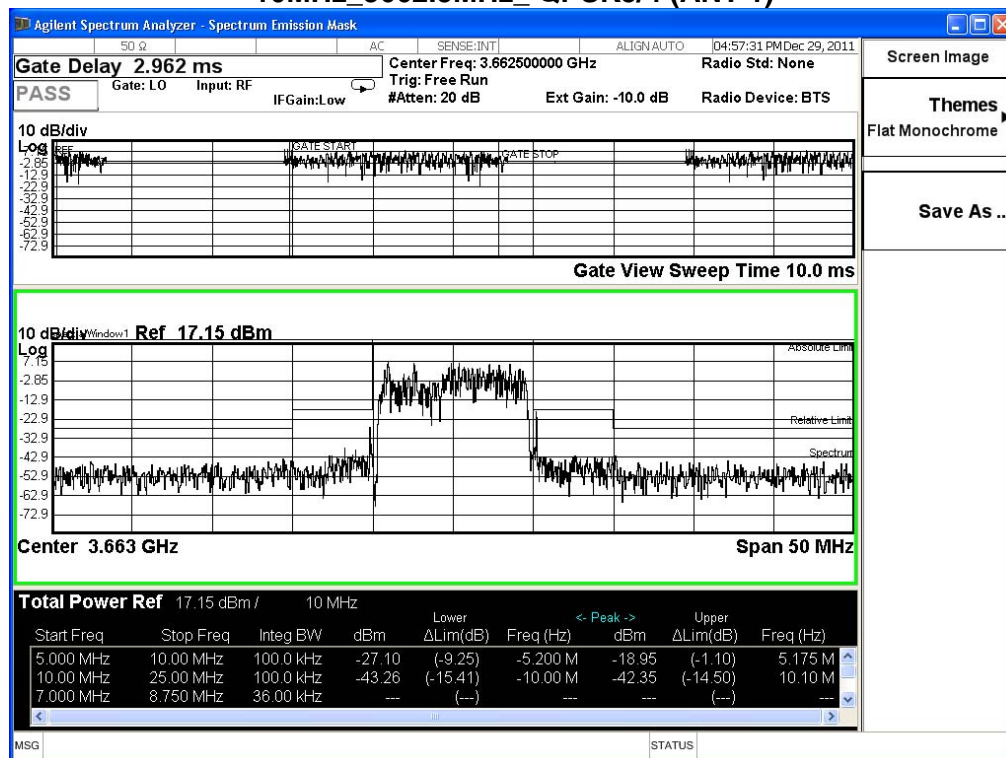


### 10MHz\_3655MHz\_QPSK3/4 (ANT 1)

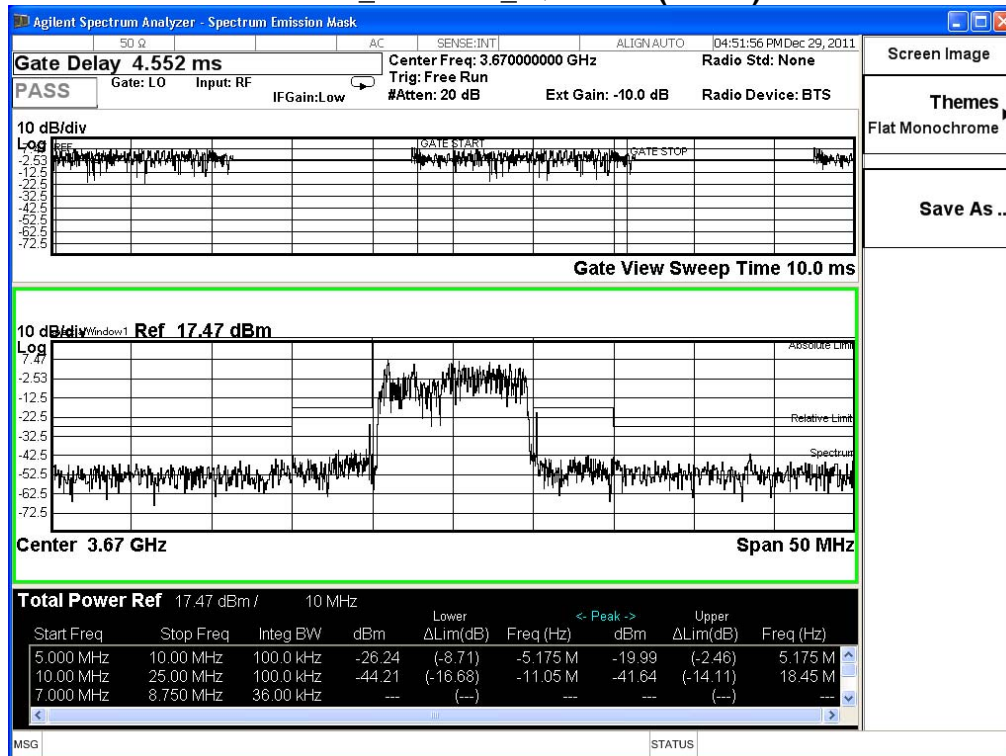




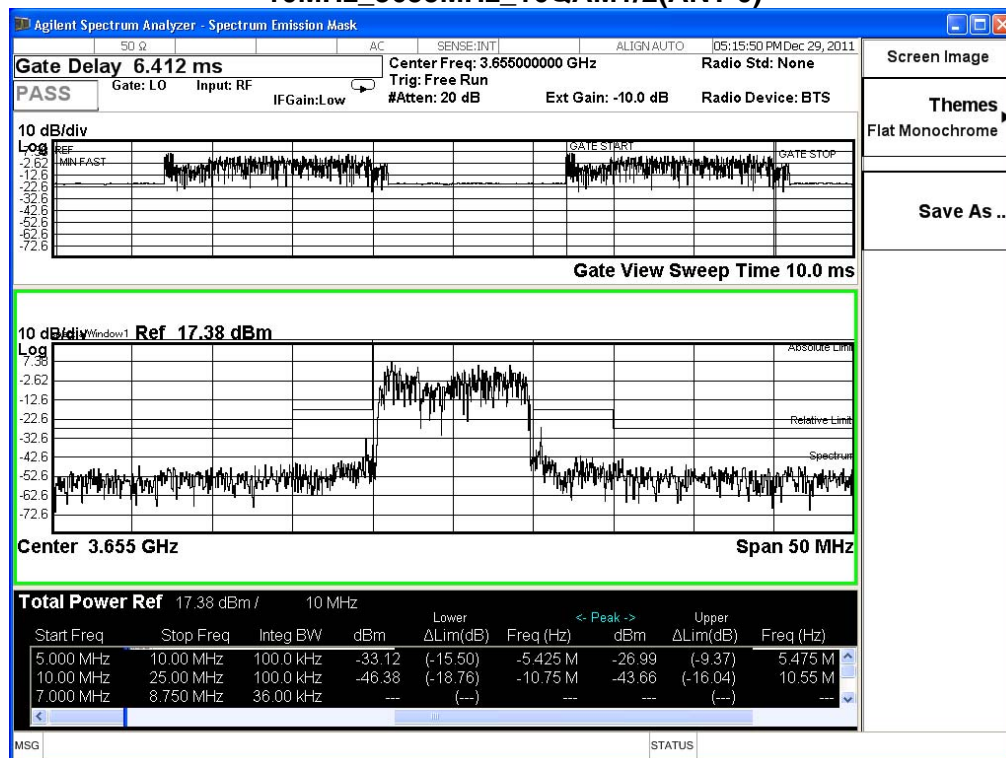
### 10MHz\_3662.5MHz\_ QPSK3/4 (ANT 1)



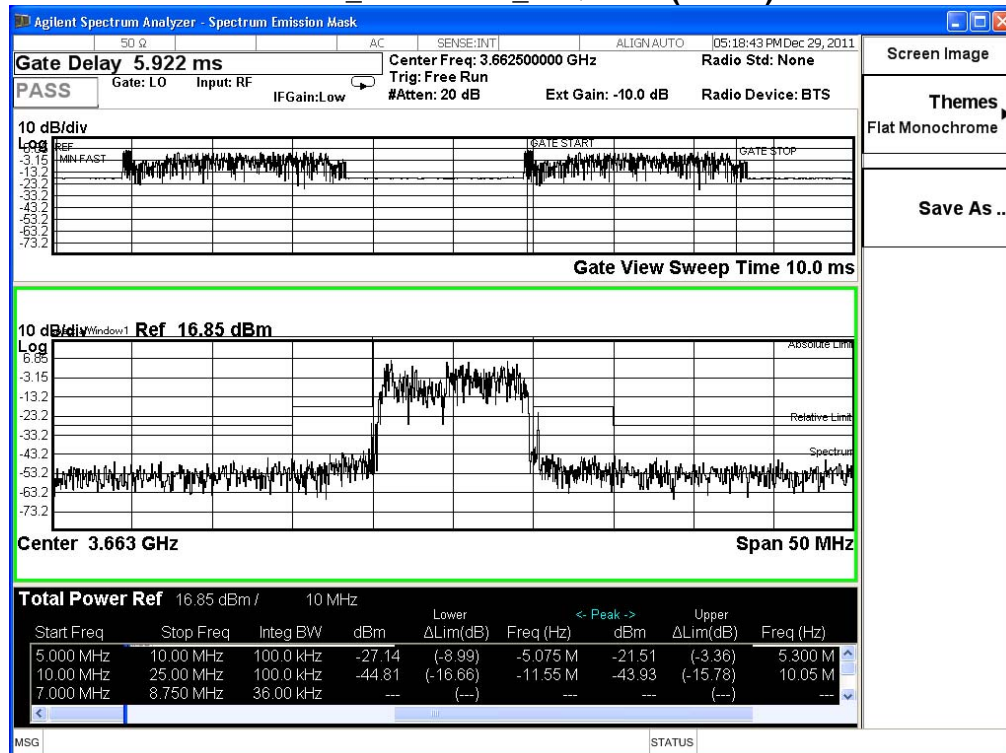
### 10MHz\_3670MHz\_ QPSK3/4 (ANT 1)



### 10MHz\_3655MHz\_16QAM1/2(ANT 0)

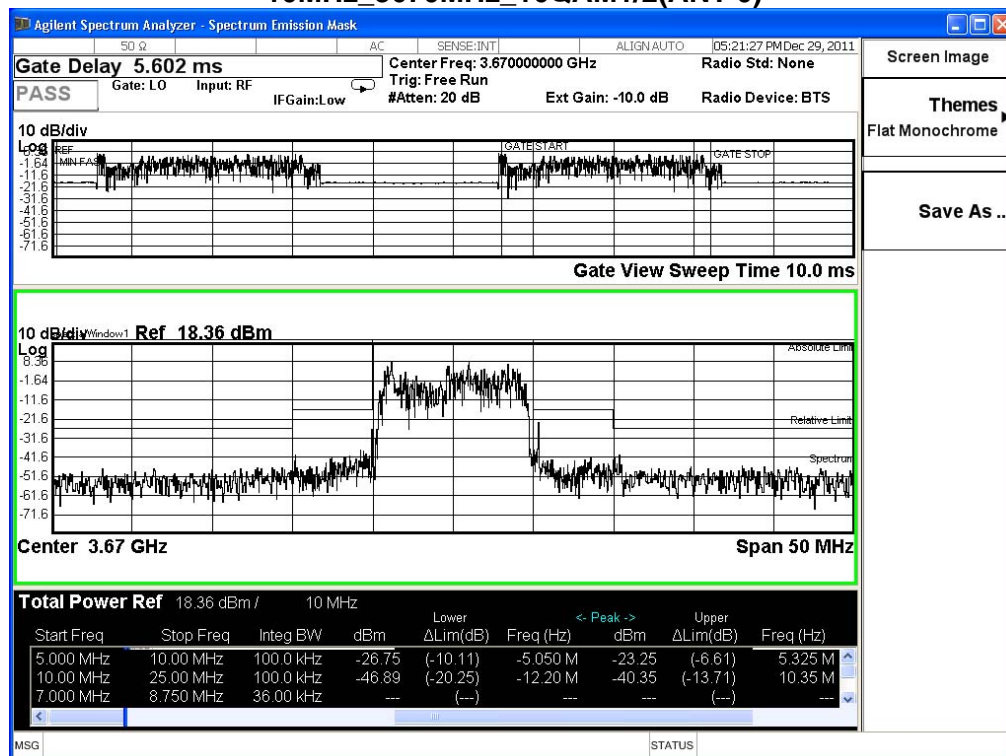


### 10MHz\_3662.5MHz\_16QAM1/2(ANT 0)

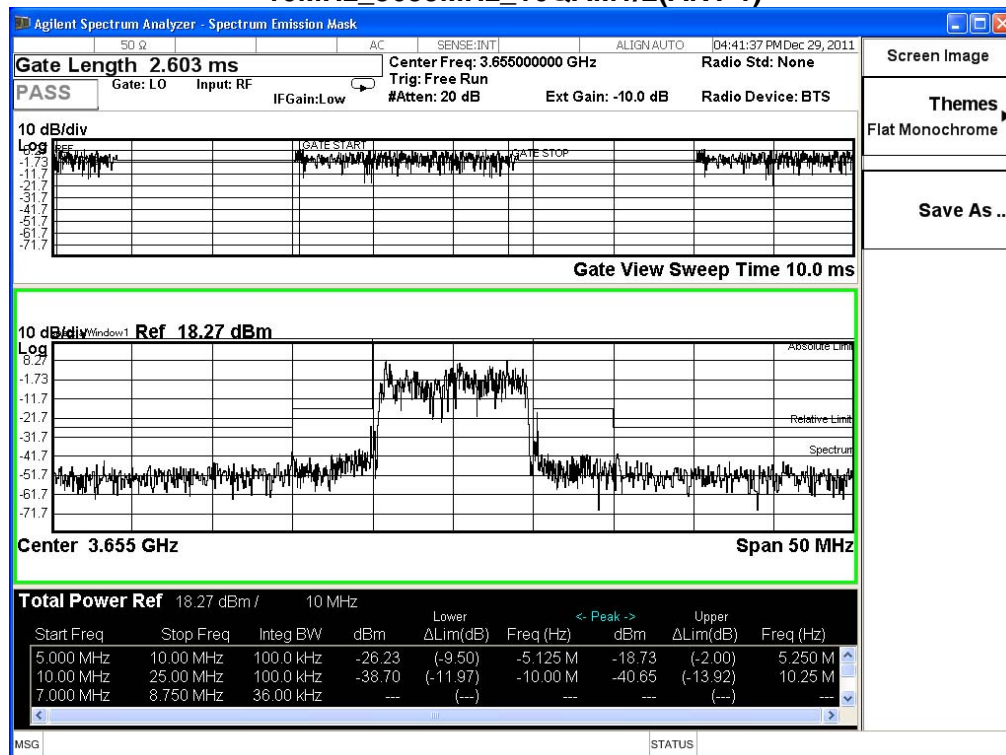




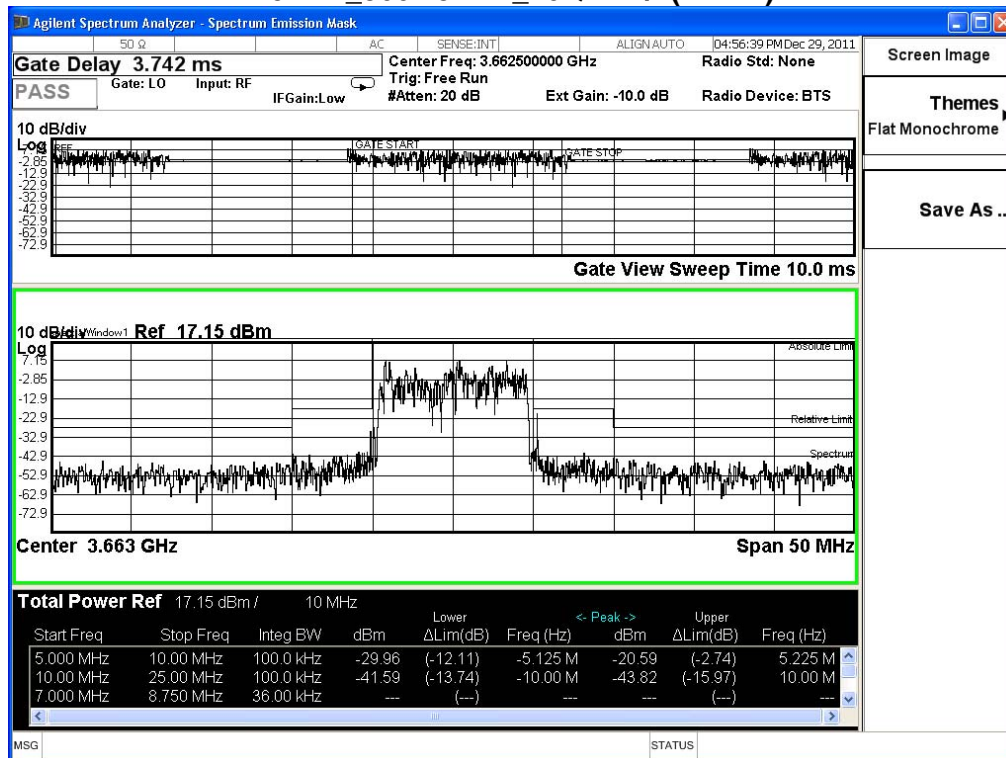
### 10MHz\_3670MHz\_16QAM1/2(ANT 0)



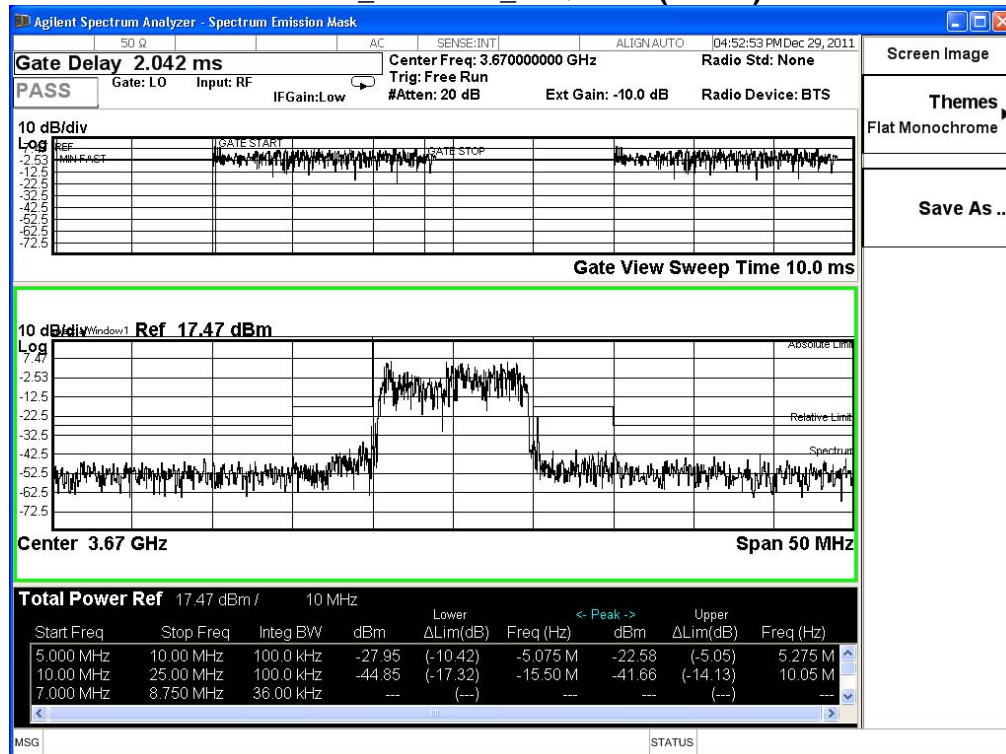
### 10MHz\_3655MHz\_16QAM1/2(ANT 1)



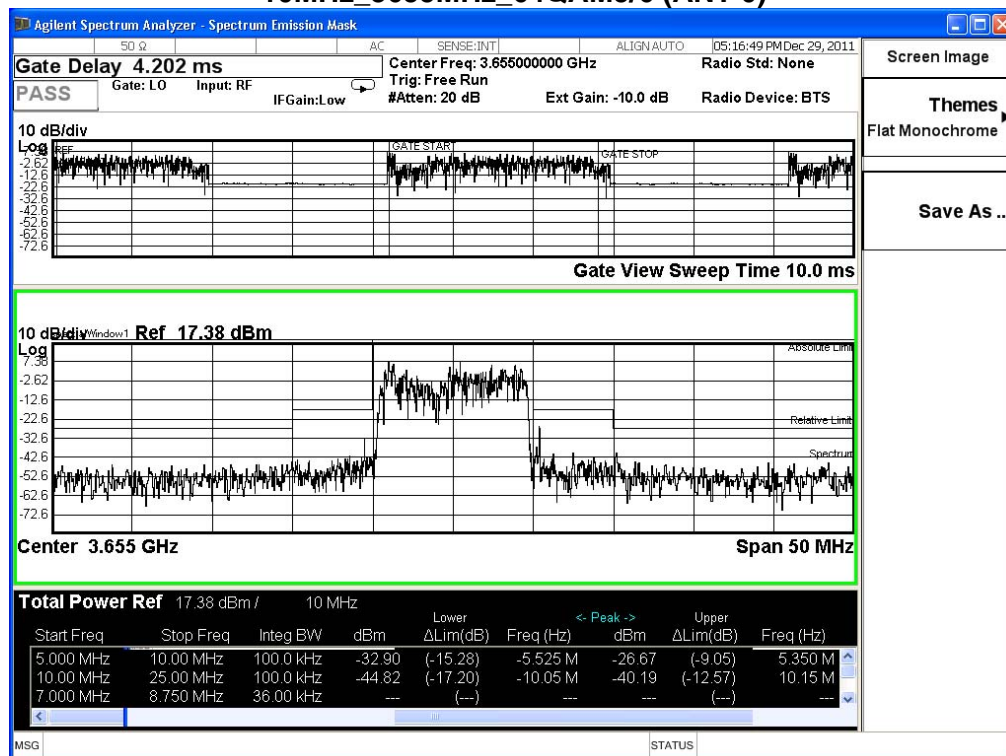
### 10MHz\_3662.5MHz\_16QAM1/2(ANT 1)



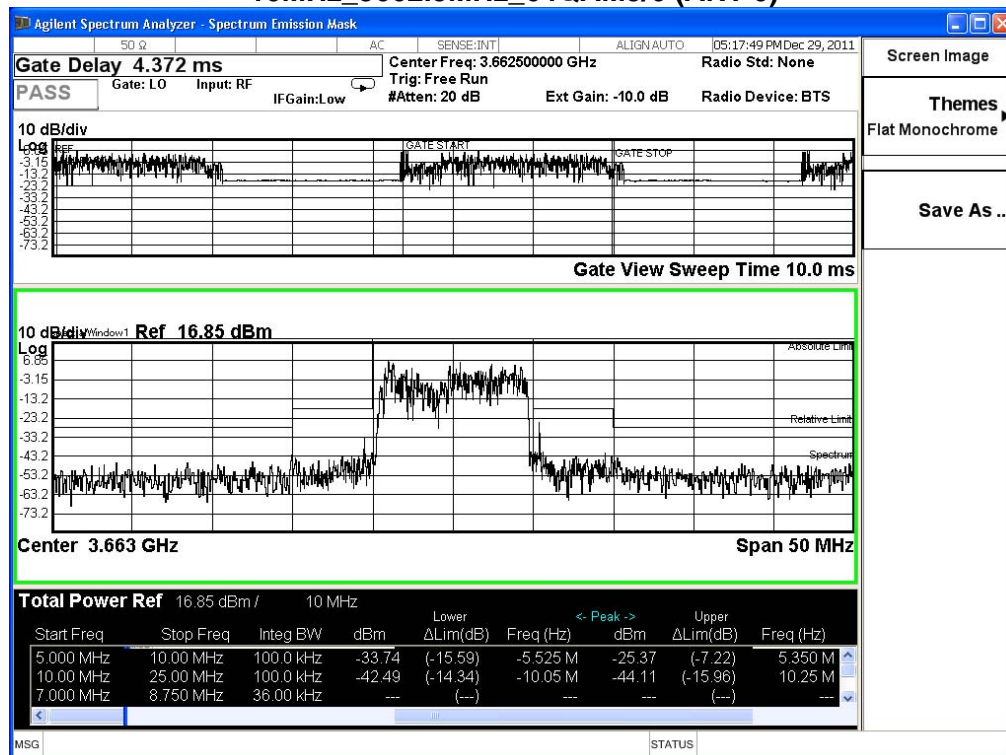
### 10MHz\_3670MHz\_16QAM1/2(ANT 1)



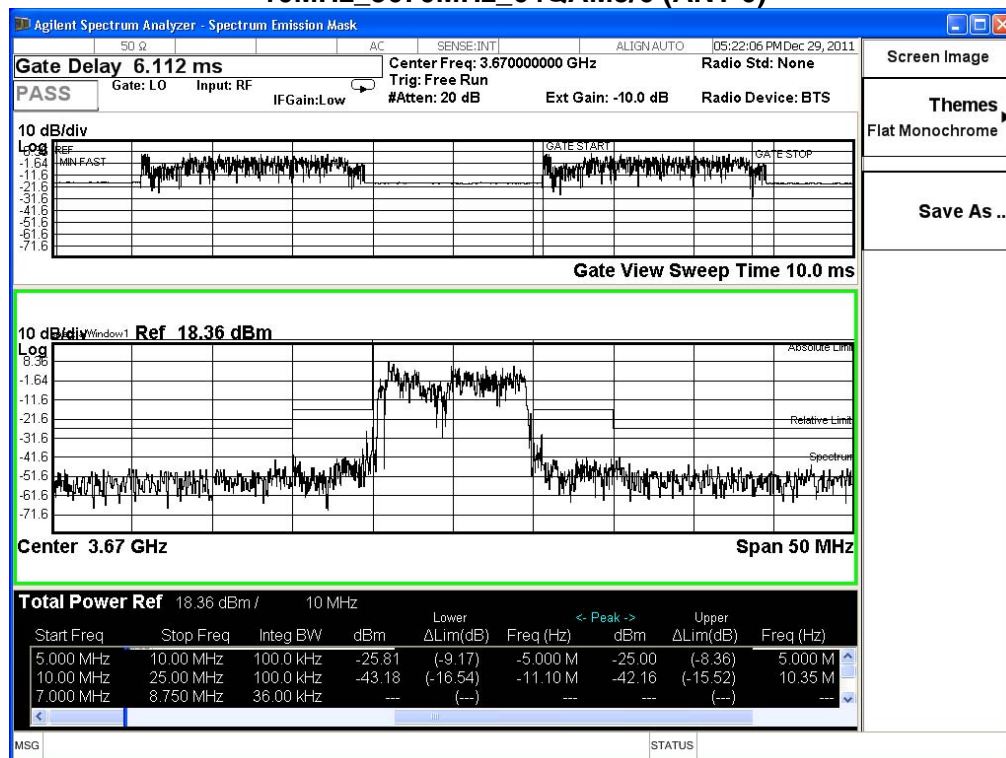
### 10MHz\_3655MHz\_64QAM5/6 (ANT 0)



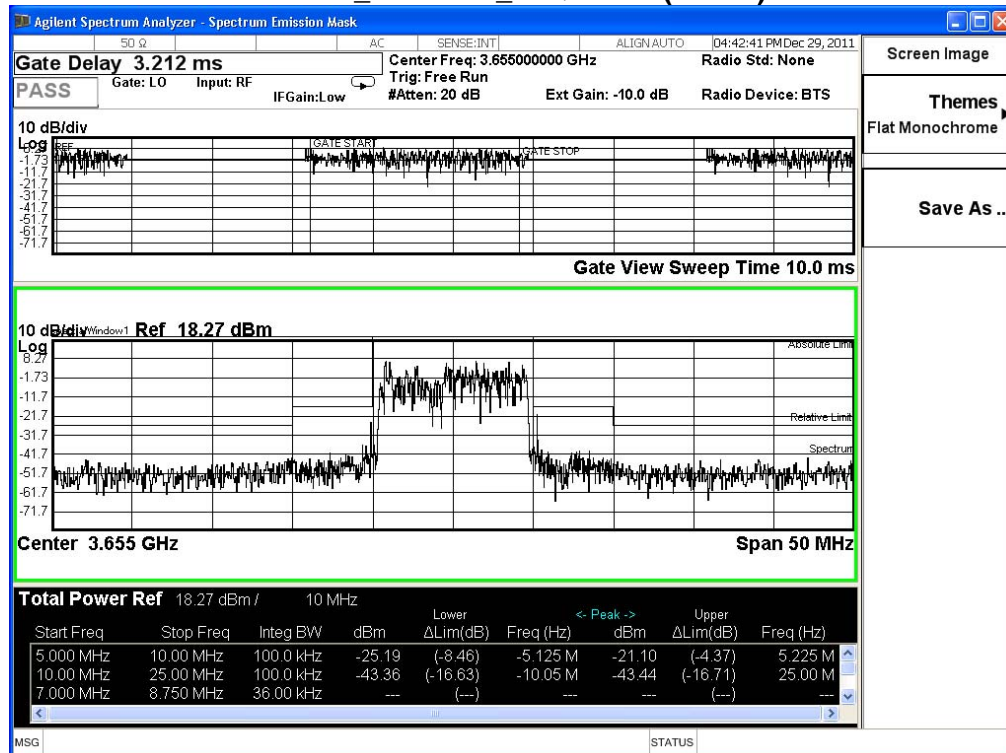
### 10MHz\_3662.5MHz\_64QAM5/6 (ANT 0)



### 10MHz\_3670MHz\_64QAM5/6 (ANT 0)

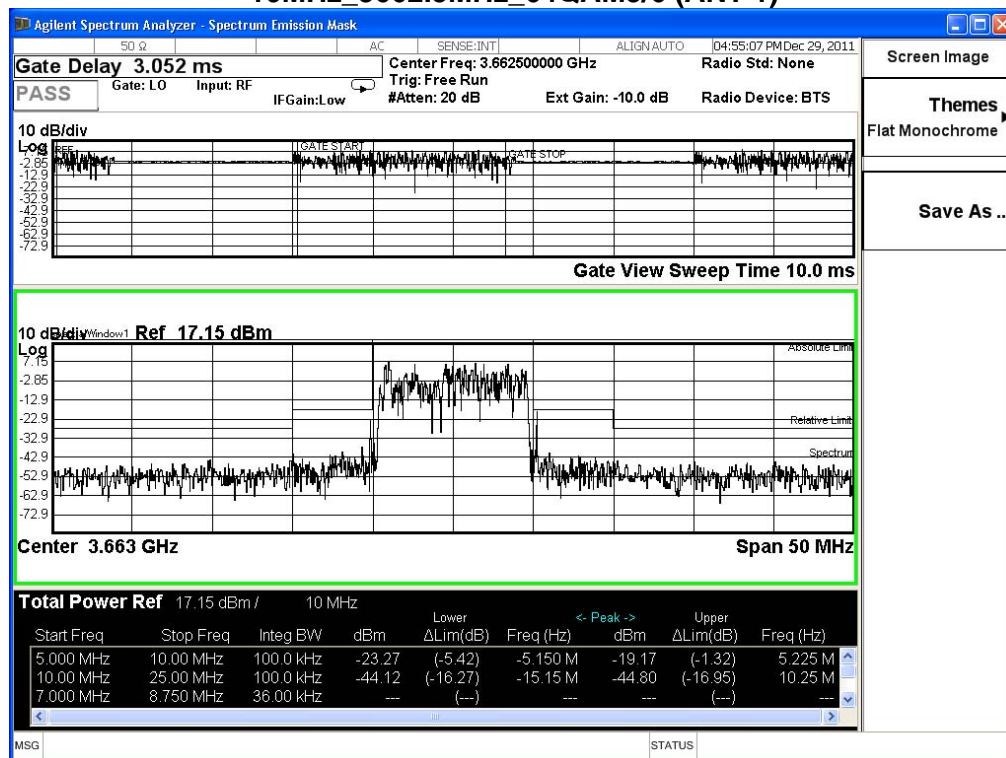


### 10MHz\_3655MHz\_64QAM5/6 (ANT 1)

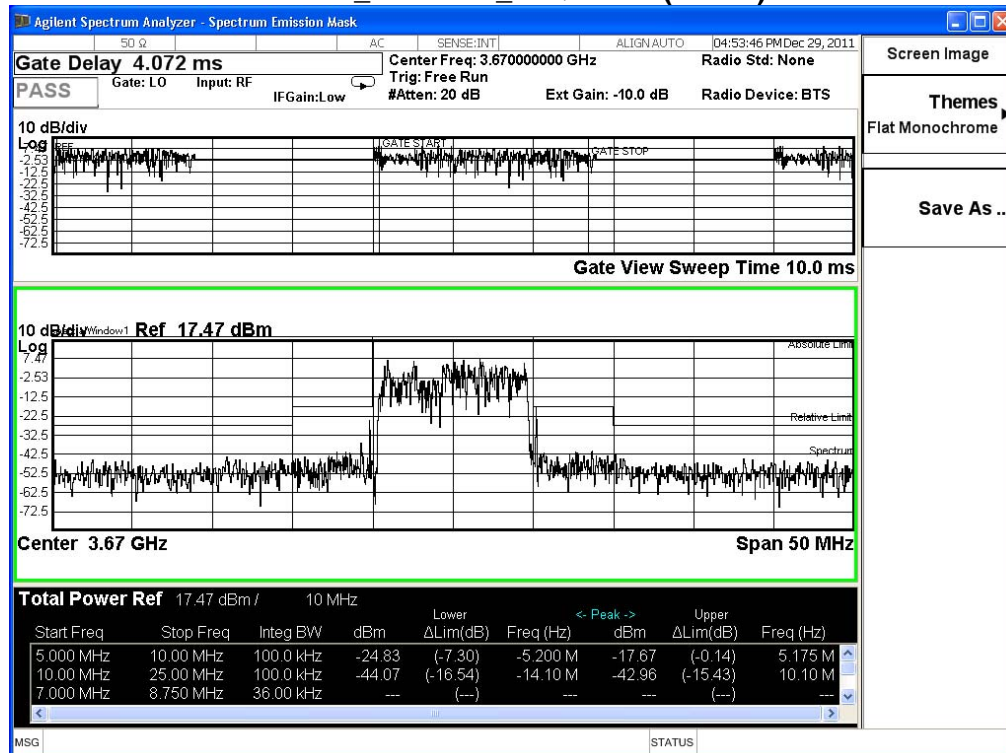




### 10MHz\_3662.5MHz\_64QAM5/6 (ANT 1)



### 10MHz\_3670MHz\_64QAM5/6 (ANT 1)



## 6. Conducted Spurious Emission

### 6.1. Test Equipment

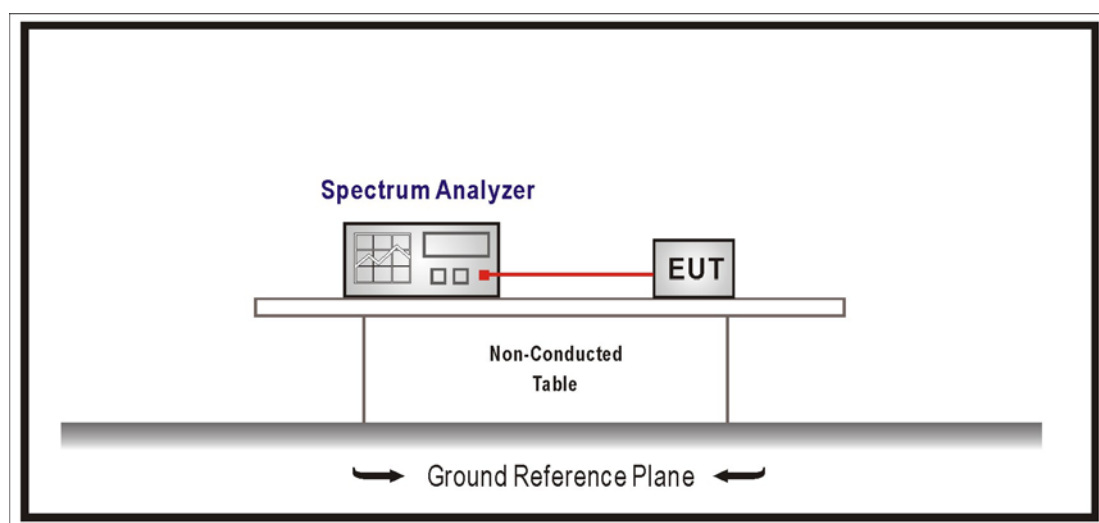
The following test equipments are used during the test:

#### Conducted Spurious Emission / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2012/07/13

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

### 6.2. Test Setup



### 6.3. Limits

The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or less, but at least one percent of the emission bandwidth of the fundamental emission of the transmitter, provided the measured energy is integrated over a 1 MHz bandwidth.

### 6.4. Test Procedure

The EUT was set up for the rated peak power. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels: low, middle and high operational frequency range. The spectrum set RBW = 1MHz, VBW = 3MHz. and using peak detection mode.



**6.5. Test Specification**

FCC CFR Title 47 Part 90 Subpart Z,

**6.6. Uncertainty**

The measurement uncertainty is defined as  $\pm 1.27$  dB