

5.7. Test Result

Product	CBS 3.65GHz			
Test Item	Spectrum Emission Mask			
	Mode 1: Transmit (3.5MHz BW_QPSK1/2)			
Test Mode	Mode 2: Transmit (3.5MHz BW_16QAM1/2)			
	Mode 3: Transmit (3.5MHz BW_64QAM2/3)			
Date of Test	2011/12/22	Test Site	SR7	

3.5MHz Bandwidth

Frequency (MHz)	Modulation	Test Result
3651.75	QPSK1/2	PASS
3662.50	QPSK1/2	PASS
3673.25	QPSK1/2	PASS
Frequency (MHz)	Modulation	Test Result
3651.75	16QAM1/2	PASS
3662.50	16QAM1/2	PASS
3673.25	16QAM1/2	PASS
Frequency (MHz)	Modulation	Test Result
3651.75	64QAM2/3	PASS
3662.50	64QAM2/3	PASS
3673.25	64QAM2/3	PASS

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

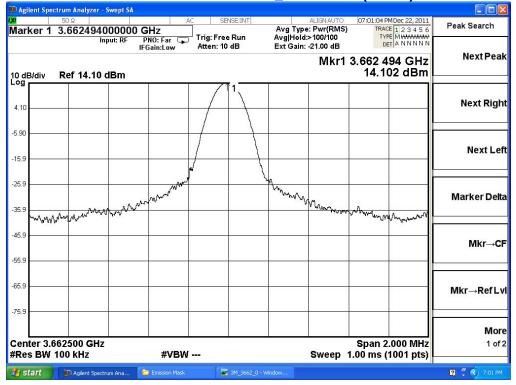
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Reference Level: 3.5MHz_3651.75MHz (ANT 0)



Reference Level: 3.5MHz_3662.5MHz (ANT 0)

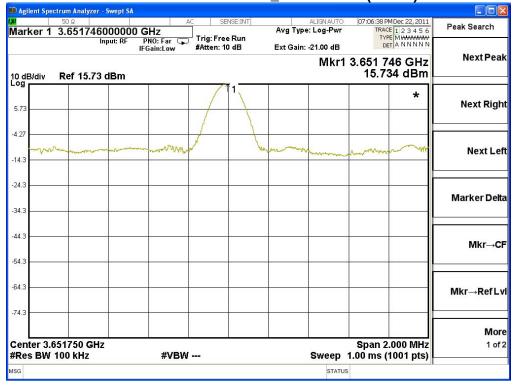




Reference Level: 3.5MHz_3673.25MHz (ANT 0)

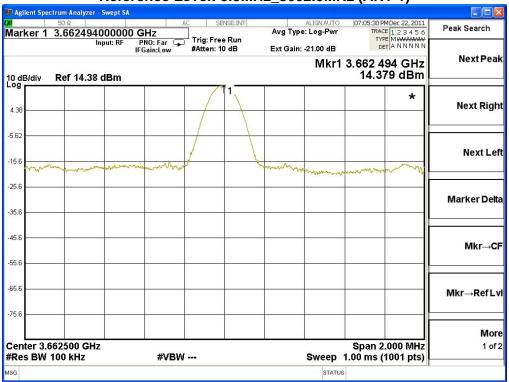


Reference Level: 3.5MHz_3651.75MHz (ANT 1)





Reference Level: 3.5MHz_3662.5MHz (ANT 1)



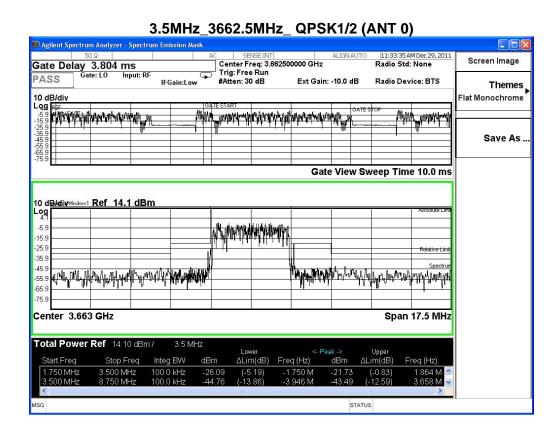
Reference Level: 3.5MHz_3673.25MHz (ANT 1)



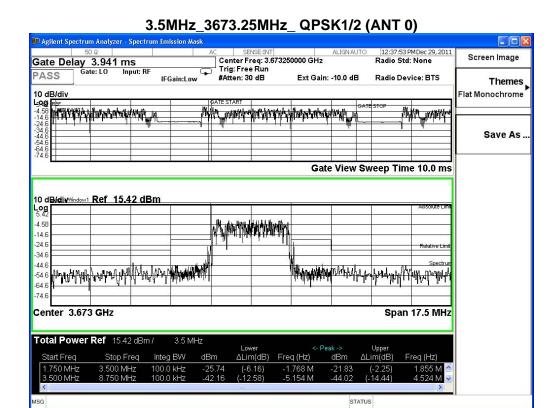


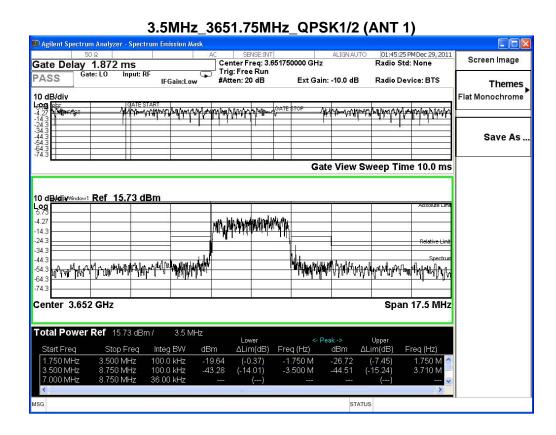
3.5MHz_3651.75MHz_QPSK1/2 (ANT 0) 🗎 Agilent Spectrum Analyzer - Spectrum En SENSE:INT
Center Freq: 3.651750000 GHz
Trig: Free Run
#Atten: 30 dB Ext Gain 10:59:20 AM Dec 29, 2011 Radio Std: None Screen Image Gate Delay 4.212 ms PASS Radio Device: BTS IFGain:Low **Themes** 10 dB/div Flat Monochrome Save As . Gate View Sweep Time 10.0 ms 10 dB/dis/Window1 Ref 14.7 dBm -5.3 15.3 25.3 35.3 ▗╃[╏]╭[╱]┸┹┱┪╲[╱]┺╍┉^{┸╾┺}┧┠[╻]╻╬╻<u>╁</u>┲┩╄╍┰_┯╓╏┸**┦┢╫╫╫╬┼╬** THE PROPERTY OF THE PROPERTY O -55.3 -65.3 -75.3 Center 3.652 GHz Span 17.5 MHz Total Power Ref 14.70 dBm / ΔLim(dB) Freq (Hz) Stop Freq Start Freq Integ BW dBm ΔLim(dB) 3.500 MHz 8.750 MHz -1.776 M -8.225 M 3.500 MHz

STATUS

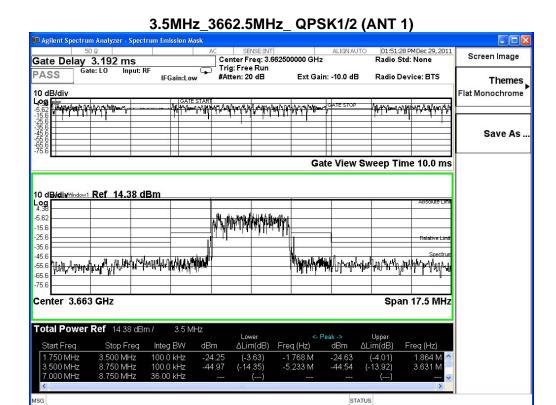


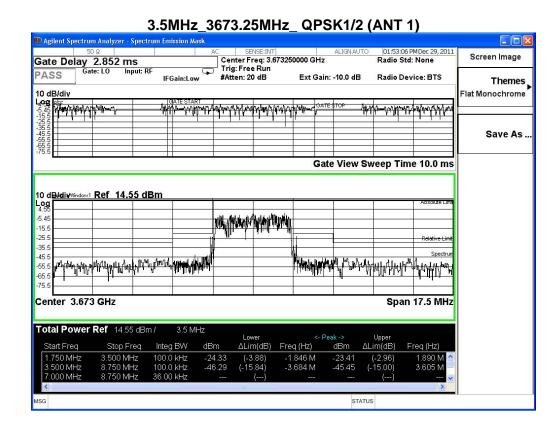






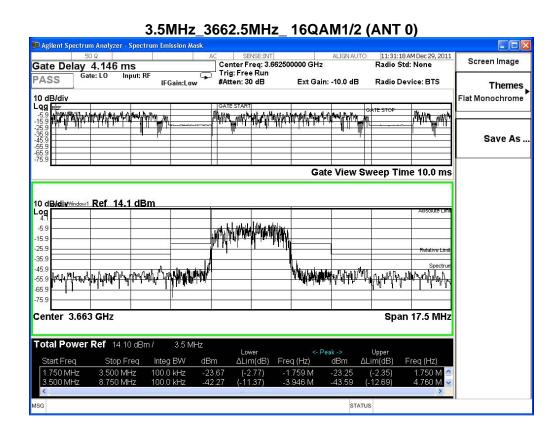




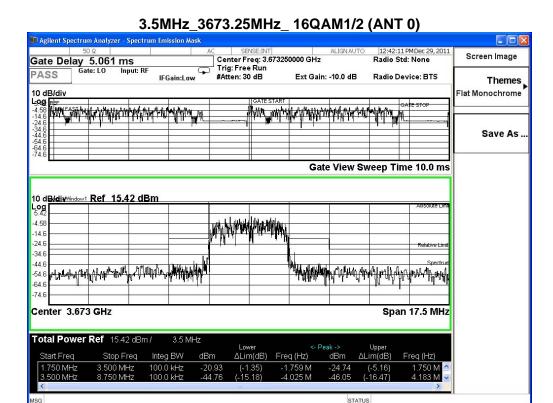


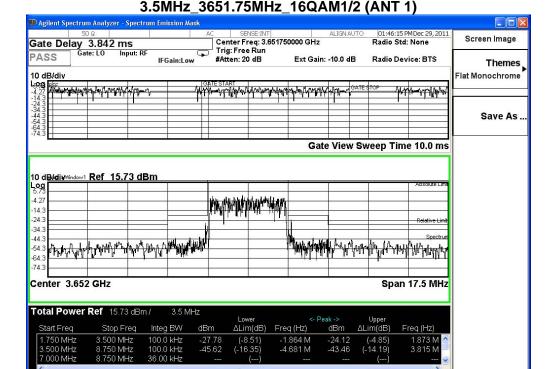


3.5MHz_3651.75MHz_16QAM1/2 (ANT 0) 11:07:08 AM Dec 29, 2011 Radio Std: None Screen Image Center Freq: 3.651750000 GHz Trig: Free Run Gate Delay 1.092 ms PASS Ext Gain: -10.0 dB Radio Device: BTS IFGain:Low #Atten: 30 dB Themes 10 dB/div Flat Monochrome [┇]┩┩┩┩┩┩┩┩┩┩┩┩┩┩┩┩┩┩┩╃╃┸┸┸┸╃╇╃ ▞▊▊▞▞▞▗▔[™]▀▀▞▗▃▞▞<u>▃</u>▄▞[▊]▃▞[▊]▃▀▞▞▜▀▃▞▃<u>▞</u>▜▞▄▜▀▃▞▀▃▞▀▃▗▞▜ ▗ Save As . Gate View Sweep Time 10.0 ms 10 dBidiyWindow1 Ref 14.7 dBm -5.3 15.3 -25.3 35.3 -45.3 <mark>╫╬╌┩╬╬╃╬╬</mark>╫╬╬╫┸[╇]╬┸╬┸┸┸┸┸┸╫╬╬┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸┸ _{┖┸}╊┷╬┱┫╏┲┯╫┎_{┪═}┸┦_{╇╌}╟┺┇[╾]╏_{╱┦}╢╫╬┖┲┷┵^{╼╏}╻╏_╇┩╇**╬╅╬**┩╃╇╬ -55.3 -75.3 Center 3.652 GHz Span 17.5 MHz Total Power Ref 14.70 dBm / Upper ΔLim(dB) <- Peak -> dBm ΔLim(dB) Freq (Hz) Start Freq Stop Freq Integ BW dBm Freq (Hz)

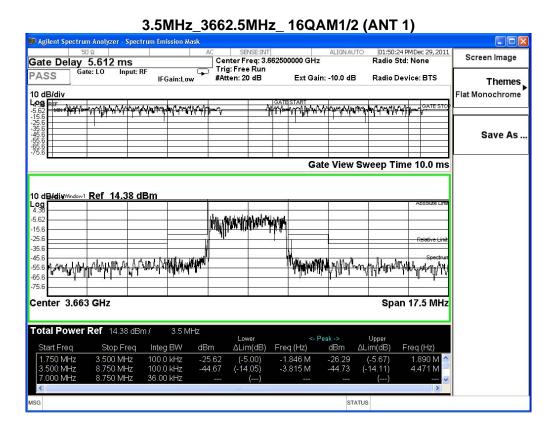


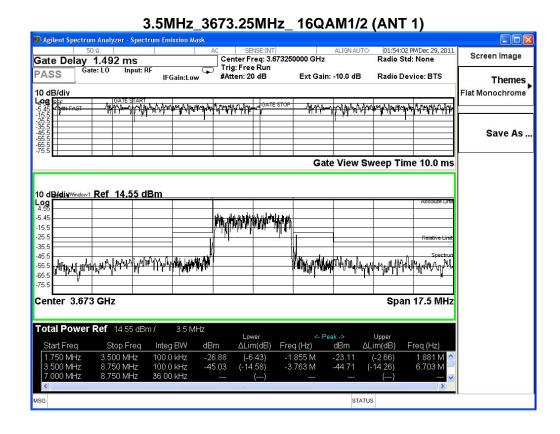














3.5MHz_3651.75MHz_64QAM2/3 (ANT 0) 11:12:48 AM Dec 29, 2011 Radio Std: None Screen Image Center Freq: 3.651750000 GHz Trig: Free Run Gate Delay 5.094 ms PASS Ext Gain: -10.0 dB Radio Device: BTS IFGain:Low #Atten: 30 dB **Themes** 10 dB/div lat Monochrome Save As . Gate View Sweep Time 10.0 ms 10 dBidiyWindow1 Ref 14.7 dBm -5.3 15.3 -25.3 35.3 -45.3 <u>╋</u> -55.3 -75.3 Center 3.652 GHz Span 17.5 MHz Total Power Ref 14.70 dBm / Upper ΔLim(dB) <- Peak -> dBm ΔLim(dB) Freq (Hz) Start Freq Stop Freq Integ BW Freq (Hz) -1.820 M -5.863 M

