

A.3: 26dB Bandwidth and Occupied Bandwidth

Channel Bandwidth 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0767	1.222	PASS
	MCH	6	0	1.0750	1.215	PASS
	HCH	6	0	1.0785	1.218	PASS
16QAM	LCH	6	0	1.0799	1.230	PASS
	MCH	6	0	1.0785	1.212	PASS
	HCH	6	0	1.0763	1.220	PASS

Channel Bandwidth 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6842	2.879	PASS
	MCH	15	0	2.6845	2.885	PASS
	HCH	15	0	2.6789	2.874	PASS
16QAM	LCH	15	0	2.6829	2.885	PASS
	MCH	15	0	2.6828	2.869	PASS
	HCH	15	0	2.6852	2.878	PASS

Channel Bandwidth 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4784	4.834	PASS
	MCH	25	0	4.4833	4.826	PASS
	HCH	25	0	4.4691	4.775	PASS
16QAM	LCH	25	0	4.4719	4.826	PASS
	MCH	25	0	4.4762	4.838	PASS
	HCH	25	0	4.4786	4.873	PASS

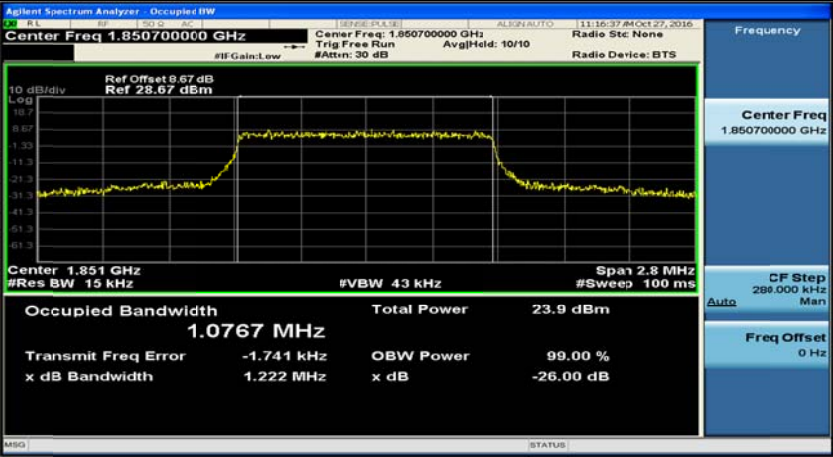
Channel Bandwidth 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9548	9.585	PASS
	MCH	50	0	8.9451	9.575	PASS
	HCH	50	0	8.9166	9.565	PASS
16QAM	LCH	50	0	8.9418	9.492	PASS
	MCH	50	0	8.9320	9.498	PASS
	HCH	50	0	8.9335	9.534	PASS

Channel Bandwidth 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.425	14.05	PASS
	MCH	75	0	13.395	14.04	PASS
	HCH	75	0	13.388	14.01	PASS
16QAM	LCH	75	0	13.413	14.08	PASS
	MCH	75	0	13.384	14.01	PASS
	HCH	75	0	13.385	14.04	PASS

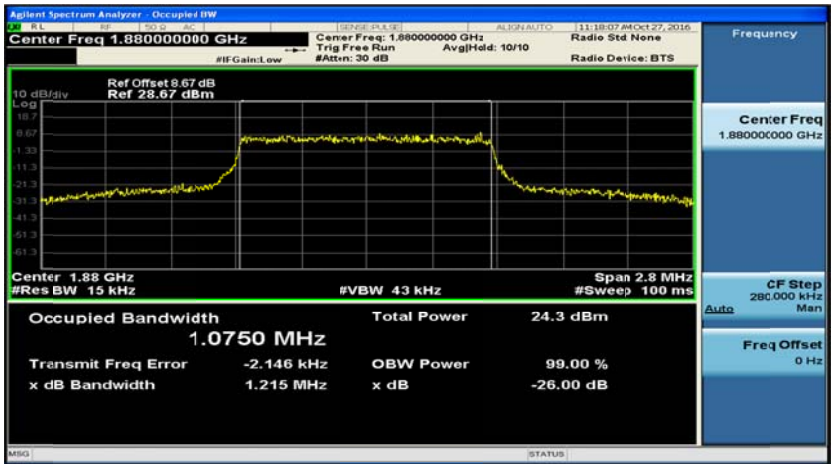
Channel Bandwidth 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.921	18.68	PASS
	MCH	100	0	17.820	18.60	PASS
	HCH	100	0	17.875	18.66	PASS
16QAM	LCH	100	0	17.930	18.63	PASS
	MCH	100	0	17.817	18.58	PASS
	HCH	100	0	17.895	18.74	PASS

Test Graphs

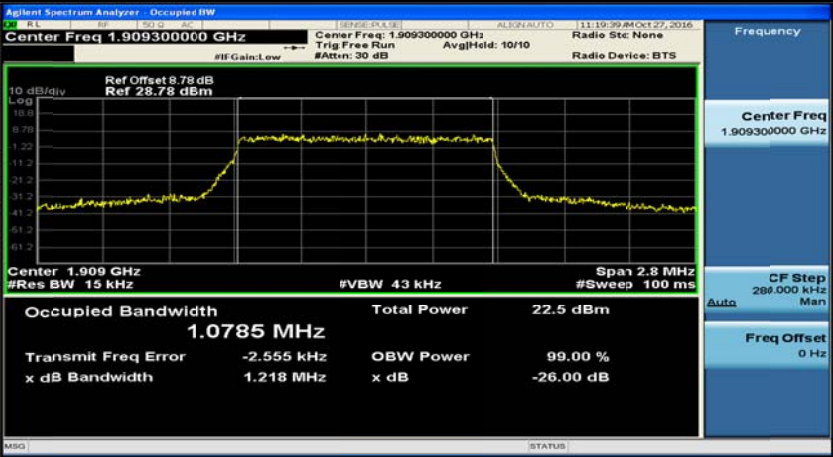
(Channel Bandwidth 1.4 MHz)_LCH_QPSK_6RB#0



(Channel Bandwidth 1.4 MHz)_MCH_QPSK_6RB#0



(Channel Bandwidth 1.4 MHz)_HCH_QPSK_6RB#0



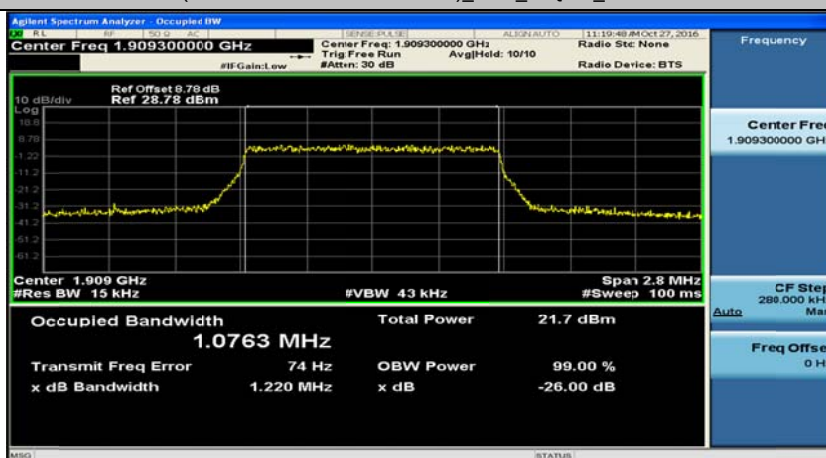
(Channel Bandwidth 1.4 MHz)_LCH_16QAM_6RB#0



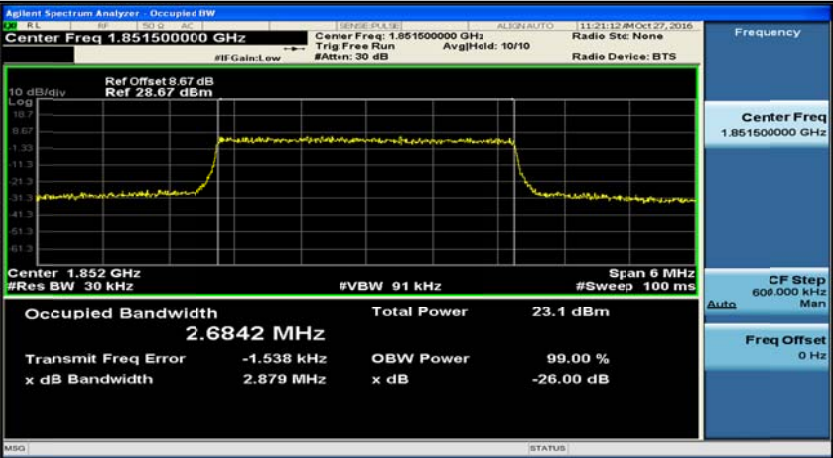
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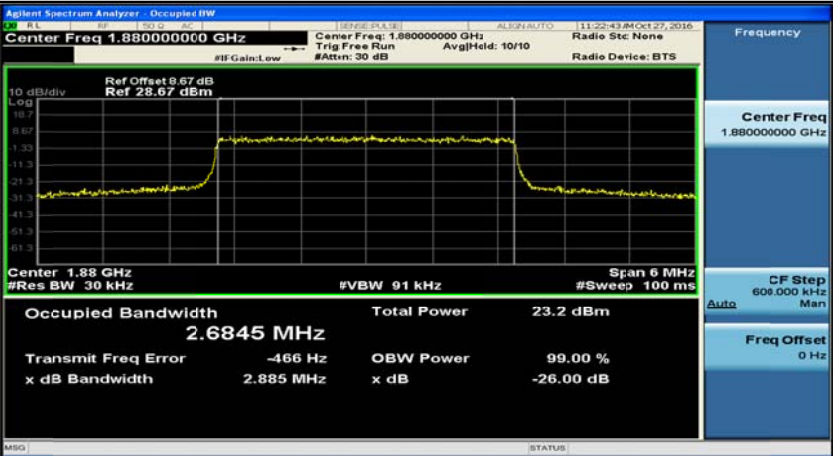
(Channel Bandwidth 1.4 MHz)_HCH_16QAM_6RB#0



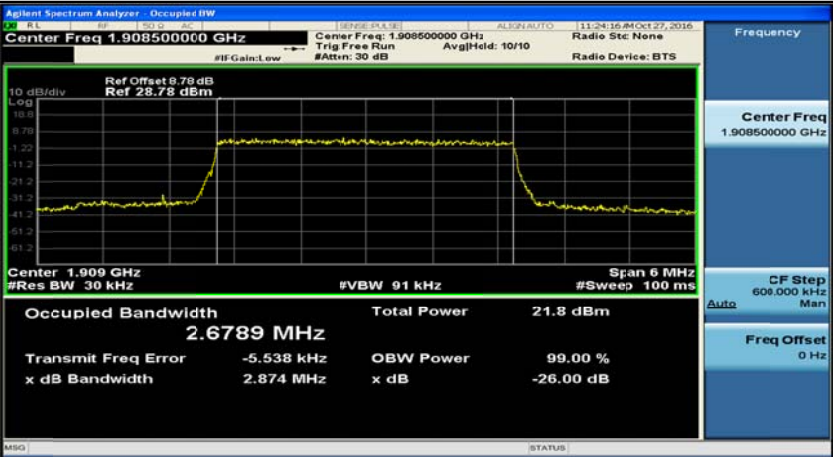
(Channel Bandwidth 3 MHz)_LCH_QPSK_15RB#0



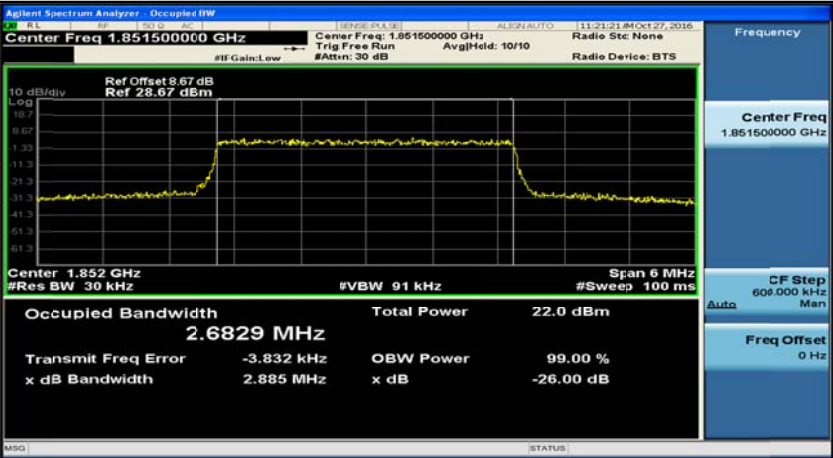
(Channel Bandwidth 3 MHz)_MCH_QPSK_15RB#0



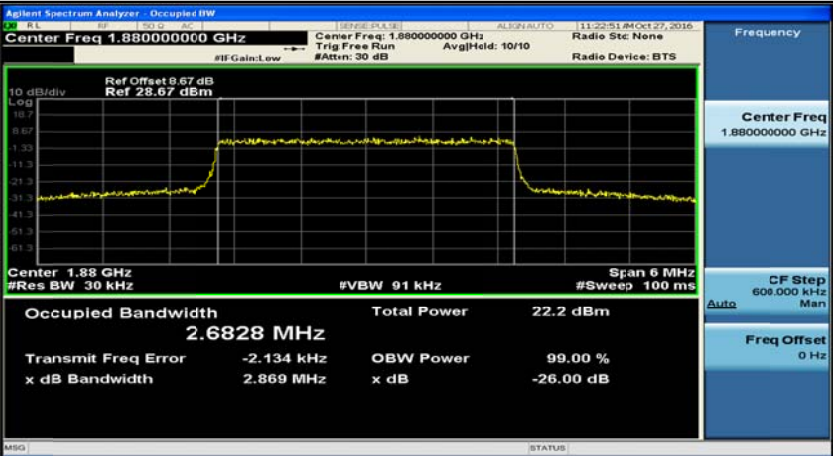
(Channel Bandwidth 3 MHz)_HCH_QPSK_15RB#0



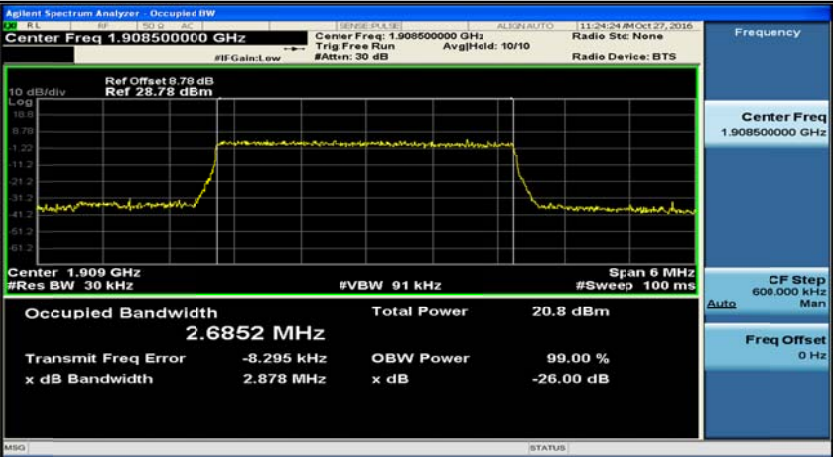
(Channel Bandwidth 3 MHz)_LCH_16QAM_15RB#0



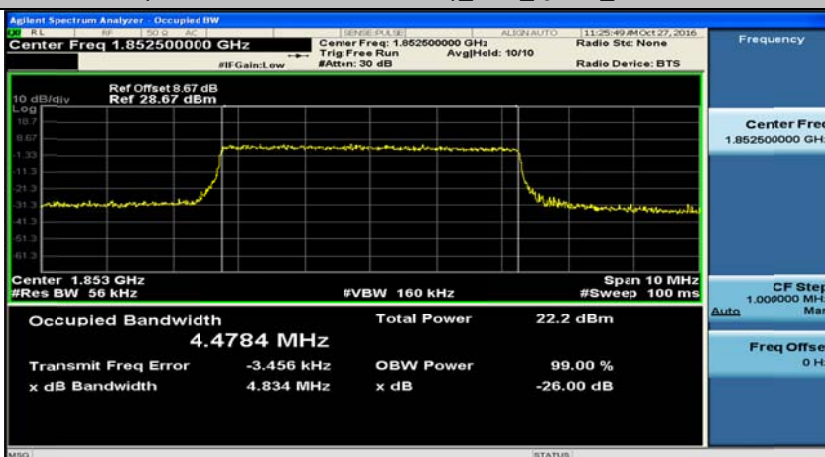
(Channel Bandwidth 3 MHz)_MCH_16QAM_15RB#0



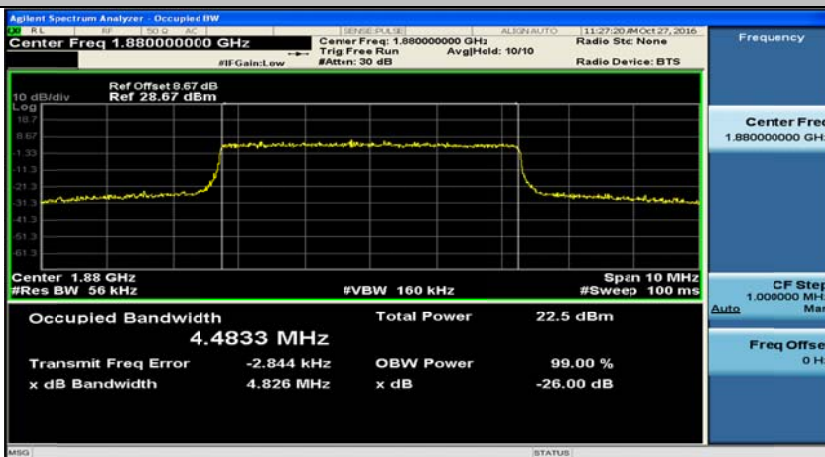
(Channel Bandwidth 3 MHz)_HCH_16QAM_15RB#0



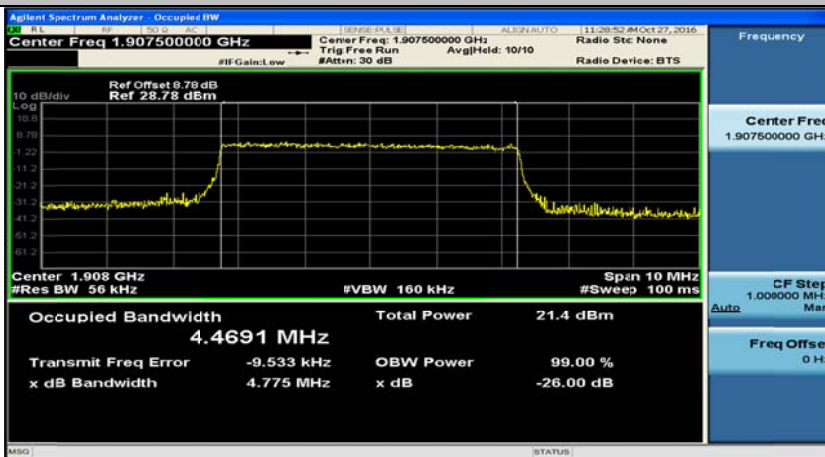
(Channel Bandwidth 5 MHz)_LCH_QPSK_25RB#0



(Channel Bandwidth 5 MHz)_MCH_QPSK_25RB#0



(Channel Bandwidth 5 MHz)_HCH_QPSK_25RB#0



Agilent Spectrum Analyzer - Occupied BW

Center Freq 1.852500000 GHz

Center Freq: 1.852500000 GHz
Trig Free Run
#FftGain: Low
#AttIn: 30 dB

ALE25AUTO
11:25:57 Mon 127, 2016

Radio Stc: None
Radio Device: BTS

Frequency

Center Freq
1.852500000 GHz

10 dB/div
Ref Offset 8.67 dB
Ref 28.67 dBm

Center 1.853 GHz
#Res BW 56 kHz

#VBW 160 kHz

Span 10 MHz
#Sweep 100 ms

Occupied Bandwidth		Total Power	21.2 dBm
Transmit Freq Error	-5.683 kHz	OBW Power	99.00 %
x dB Bandwidth	4.826 MHz	x dB	-26.00 dB

CF Step
1.000000 MHz
Auto

Frequency Offset
0 Hz

[illegible]

Agilent Spectrum Analyzer - Occupied BW

Center Freq 1.907500000 GHz

Center Freq: 1.907500000 GHz
 Trig Freq Run
 #Attrn: 30 dB

Frequency

Center Freq 1.907500000 GHz

Ref Offset 8.79 dB
 Ref 28.78 dBm

10 dB/div

Center 1.908 GHz
 #Res BW 56 kHz

Spn 10 MHz
 #Sweep 100 ms

Occupied Bandwidth

4.4786 MHz

Transmit Freq Error -10.231 kHz

x dB Bandwidth 4.873 MHz

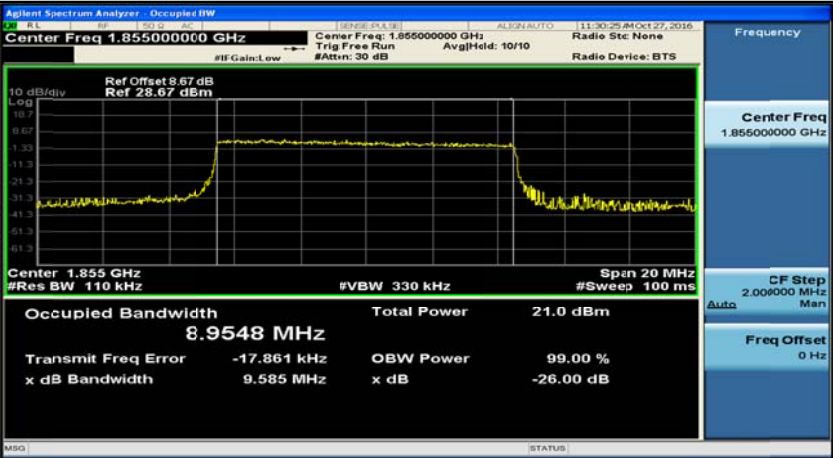
Total Power 20.4 dBm

OBW Power 99.00 %

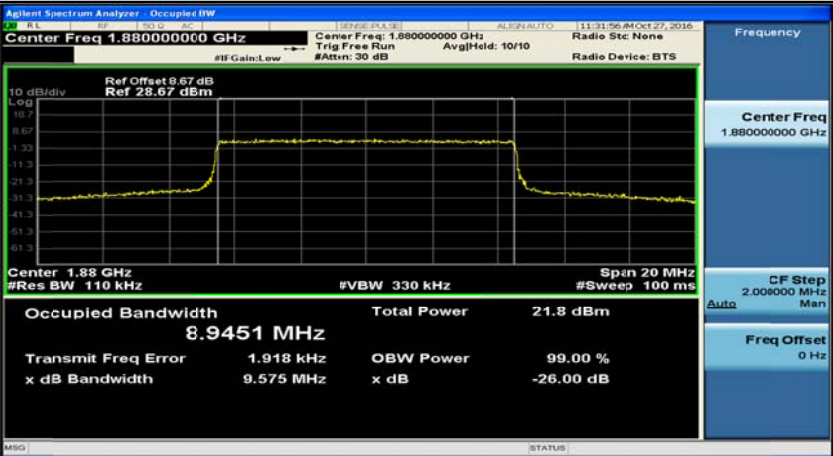
x dB -26.00 dB

The plot shows a spectrum with a yellow trace. The y-axis is labeled '10 dB/div' and ranges from -61.2 to 10. The x-axis is labeled 'Center 1.908 GHz' and ranges from 1.907 to 1.909 GHz. The trace shows a signal with a peak at approximately 1.908 GHz, with a bandwidth of 4.4786 MHz. The signal level is 20.4 dBm. The plot also shows a reference level of 28.78 dBm and a reference offset of 8.79 dB. The signal is centered at 1.9075 GHz. The plot also shows a transmit frequency error of -10.231 kHz and a bandwidth of 4.873 MHz. The plot also shows a total power of 20.4 dBm and an OBW power of 99.00%. The plot also shows a signal level of -26.00 dB.

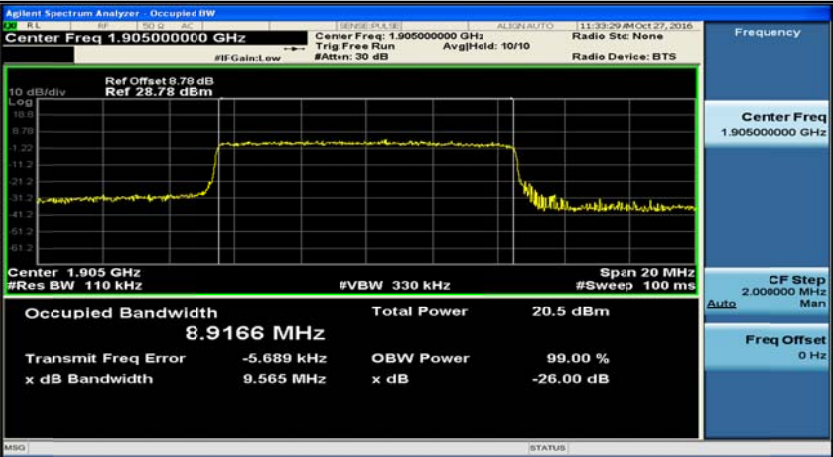
Channel Bandwidth 10 MHz_LCH_QPSK_50RB#0



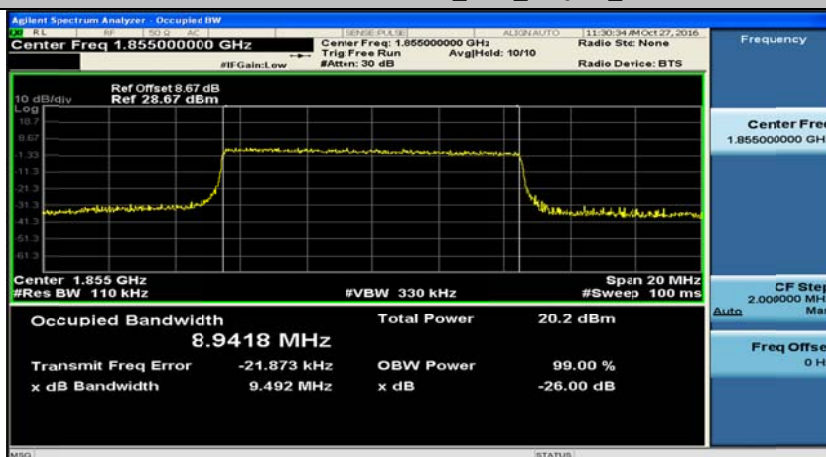
Channel Bandwidth 10 MHz_MCH_QPSK_50RB#0



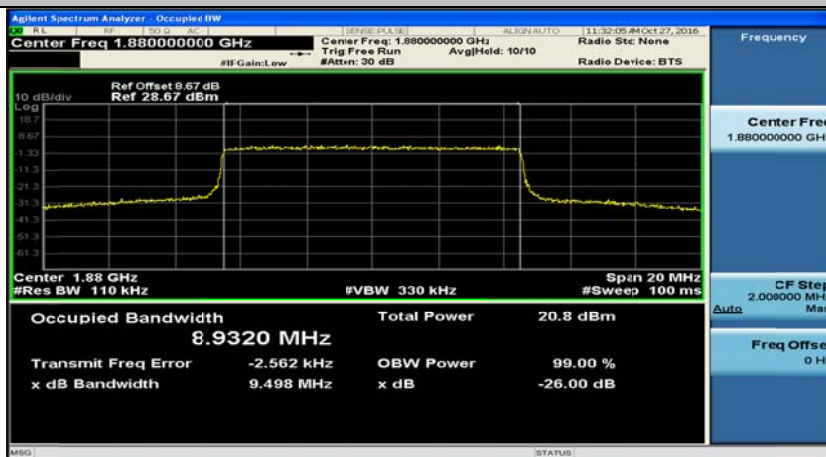
Channel Bandwidth 10 MHz_HCH_QPSK_50RB#0



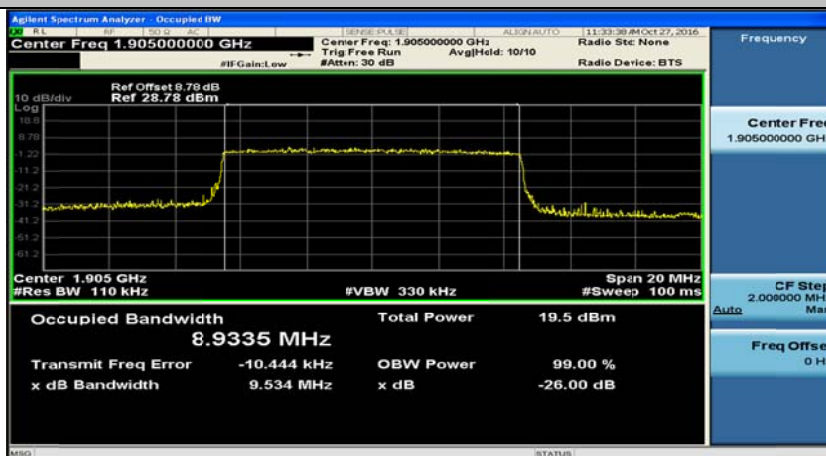
Channel Bandwidth 10 MHz_LCH_16QAM_50RB#0



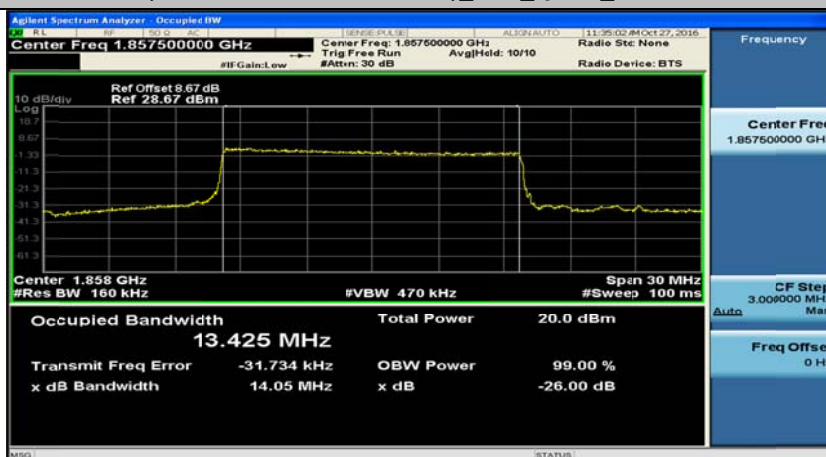
Channel Bandwidth 10 MHz_MCH_16QAM_50RB#0



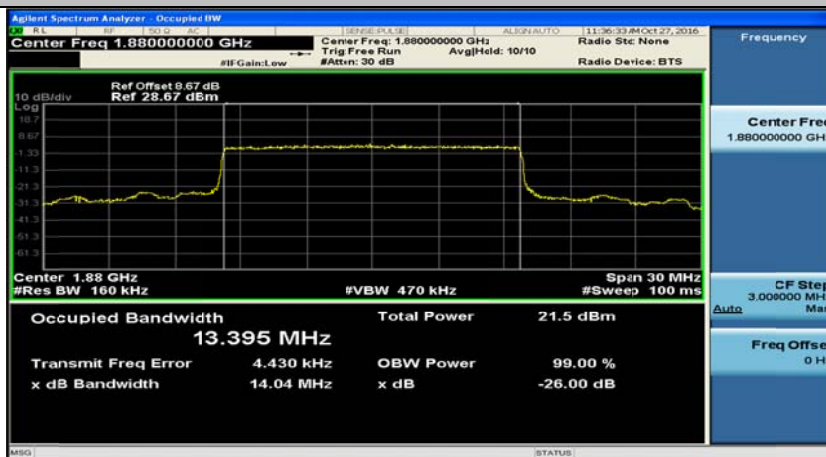
Channel Bandwidth 10 MHz_HCH_16QAM_50RB#0



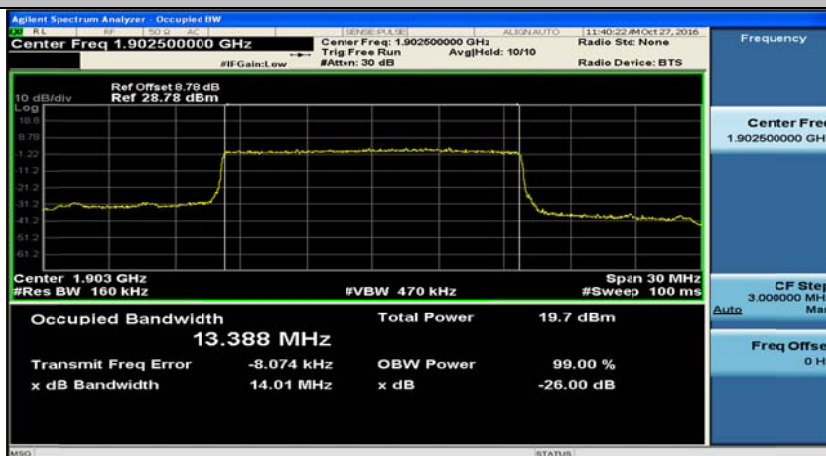
(Channel Bandwidth 15 MHz)_LCH_QPSK_75RB#0



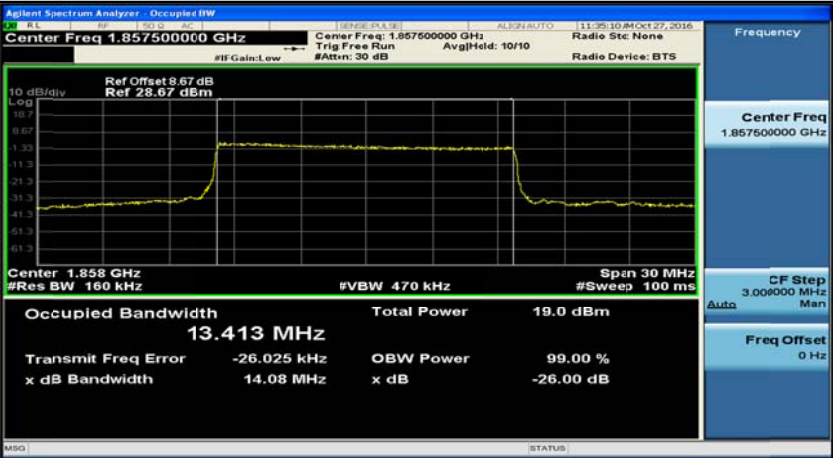
(Channel Bandwidth 15 MHz)_MCH_QPSK_75RB#0



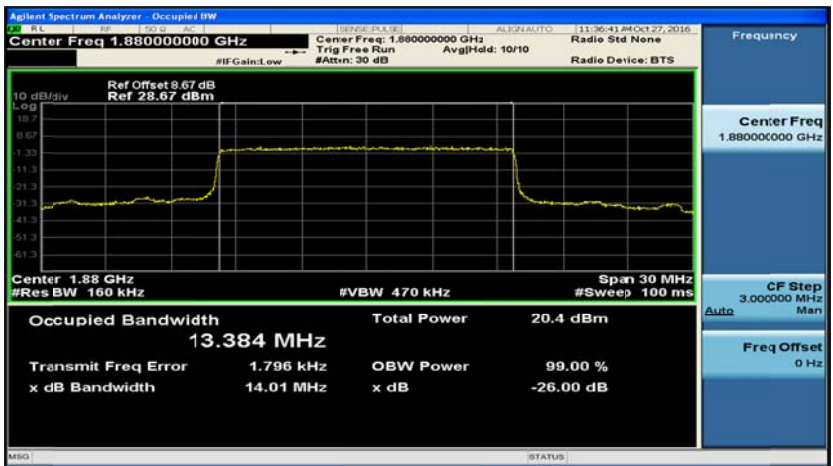
(Channel Bandwidth 15 MHz)_HCH_QPSK_75RB#0



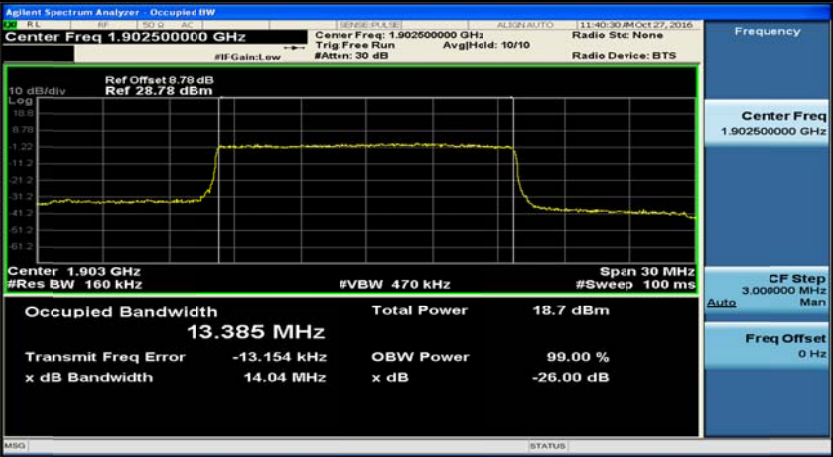
(Channel Bandwidth 15 MHz)_LCH_16QAM_75RB#0



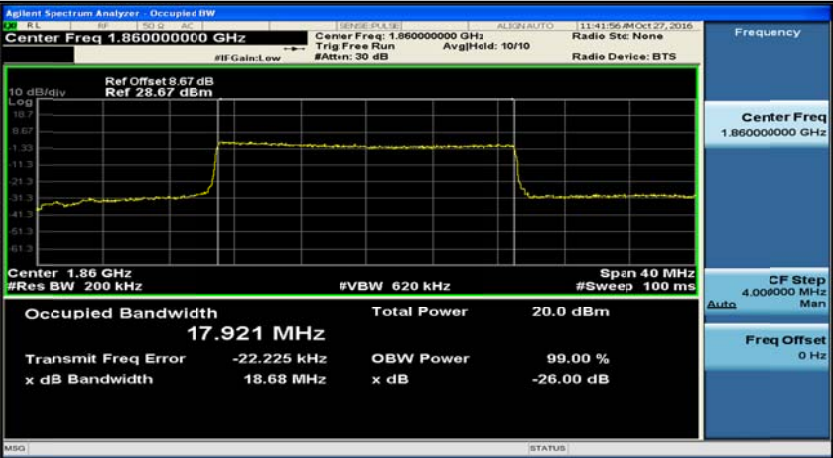
(Channel Bandwidth 15 MHz)_MCH_16QAM_75RB#0



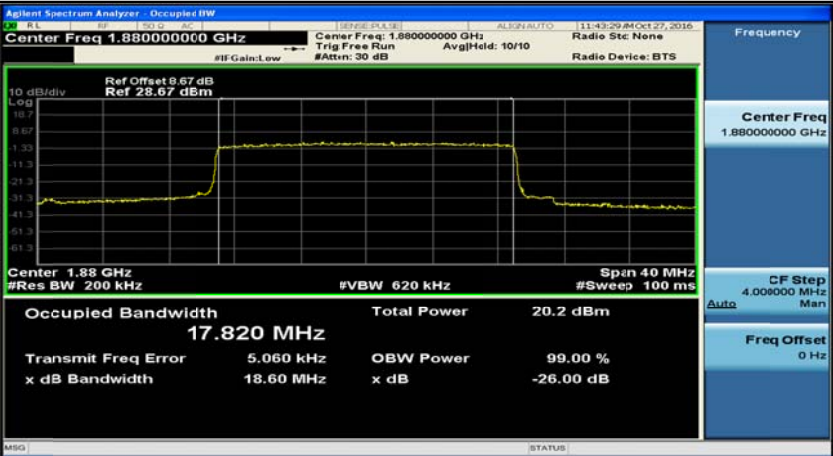
(Channel Bandwidth 15 MHz)_HCH_16QAM_75RB#0



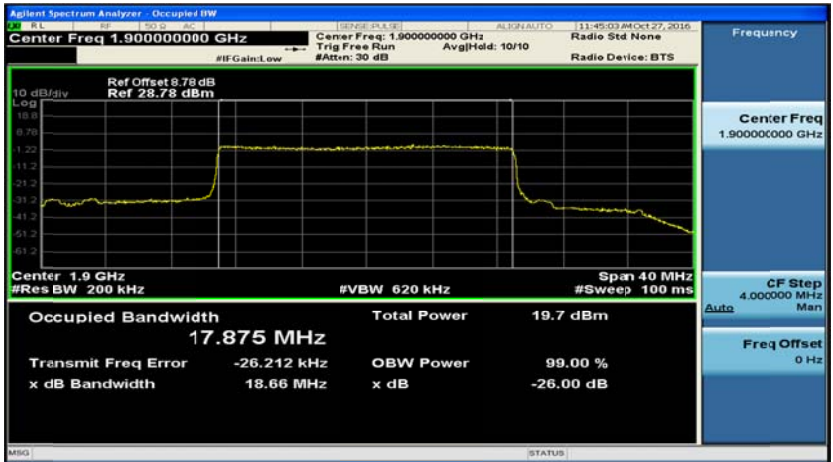
(Channel Bandwidth 20 MHz)_LCH_QPSK_100RB#0



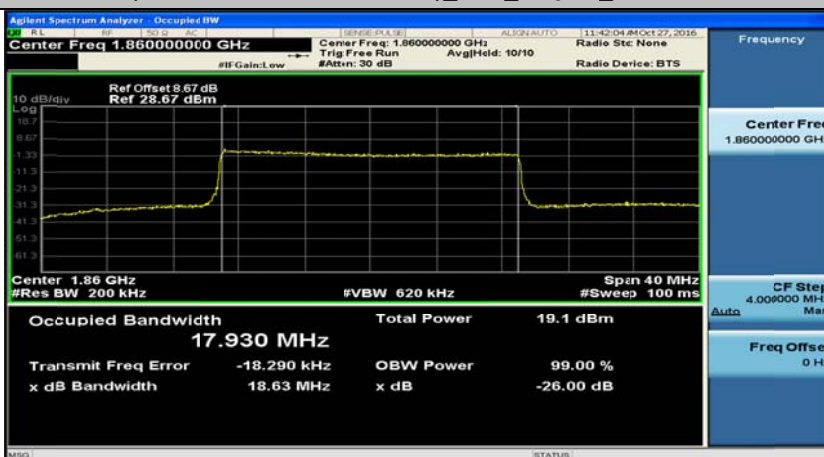
(Channel Bandwidth 20 MHz)_MCH_QPSK_100RB#0



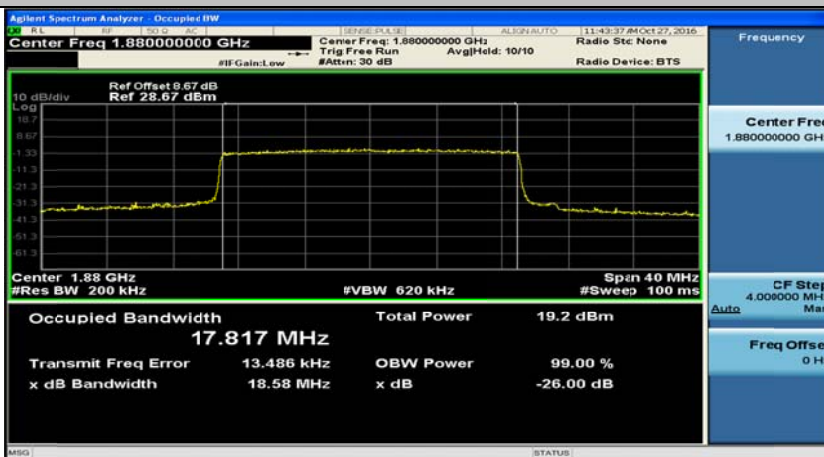
(Channel Bandwidth 20 MHz)_HCH_QPSK_100RB#0



(Channel Bandwidth 20 MHz)_LCH_16QAM_100RB#0



(Channel Bandwidth 20 MHz)_MCH_16QAM_100RB#0



(Channel Bandwidth 20 MHz)_HCH_16QAM_100RB#0

