



Appendix C

Occupied Bandwidth

According to FCC part 2.1049 & Part 24 Subpart E & RSS-133



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Result Table

NOTE: All relevant operation modes have been tested, and the full RB data is included in this report.

Table 1 Measurement Results BAND 2

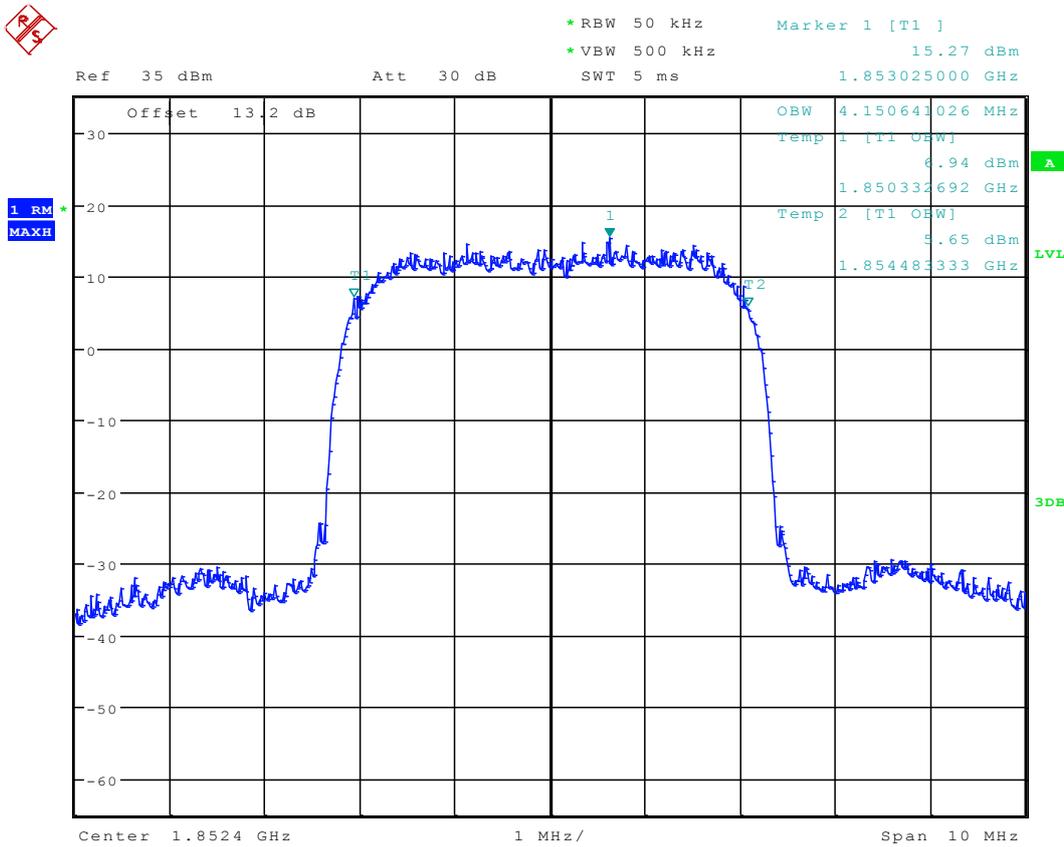
Test Mode	RF Ch.	RF Channel	Occupied Bandwidth [MHz]	Verdict	
TM1		B	4.1507	Pass	
		M	4.1507	Pass	
		T	4.1827	Pass	
Test Mode	Carrier Conf.	RF Ch.	Occupied Bandwidth [MHz]	Verdict	
TM4	1.4 MHz	B	1.0838	Pass	
		M	1.0774	Pass	
		T	1.0847	Pass	
	3 MHz	B	2.6867	Pass	
		M	2.6861	Pass	
		T	2.6834	Pass	
	5 MHz	B	4.4655	Pass	
		M	4.4657	Pass	
		T	4.4573	Pass	
	10 MHz	B	8.9661	Pass	
		M	8.9278	Pass	
		T	8.9215	Pass	
	15 MHz	B	13.3675	Pass	
		M	13.3946	Pass	
		T	13.3481	Pass	
	20 MHz	B	17.8203	Pass	
		M	17.8374	Pass	
		T	13.8601	Pass	
	TM5	1.4 MHz	B	1.0775	Pass
			M	1.0829	Pass
			T	1.0794	Pass
		3 MHz	B	2.6762	Pass
			M	2.6769	Pass
			T	2.6770	Pass
5 MHz		B	4.4734	Pass	
		M	4.4736	Pass	
		T	4.4678	Pass	
10 MHz		B	8.9257	Pass	
		M	8.9414	Pass	
		T	8.9183	Pass	
15 MHz		B	13.3834	Pass	
		M	13.3999	Pass	
		T	13.3871	Pass	
20 MHz		B	17.8256	Pass	
		M	17.8046	Pass	
		T	17.7947	Pass	



1 For WCDMA Band 2

1.1 Test Mode=TM1

1.1.1 Channel = B



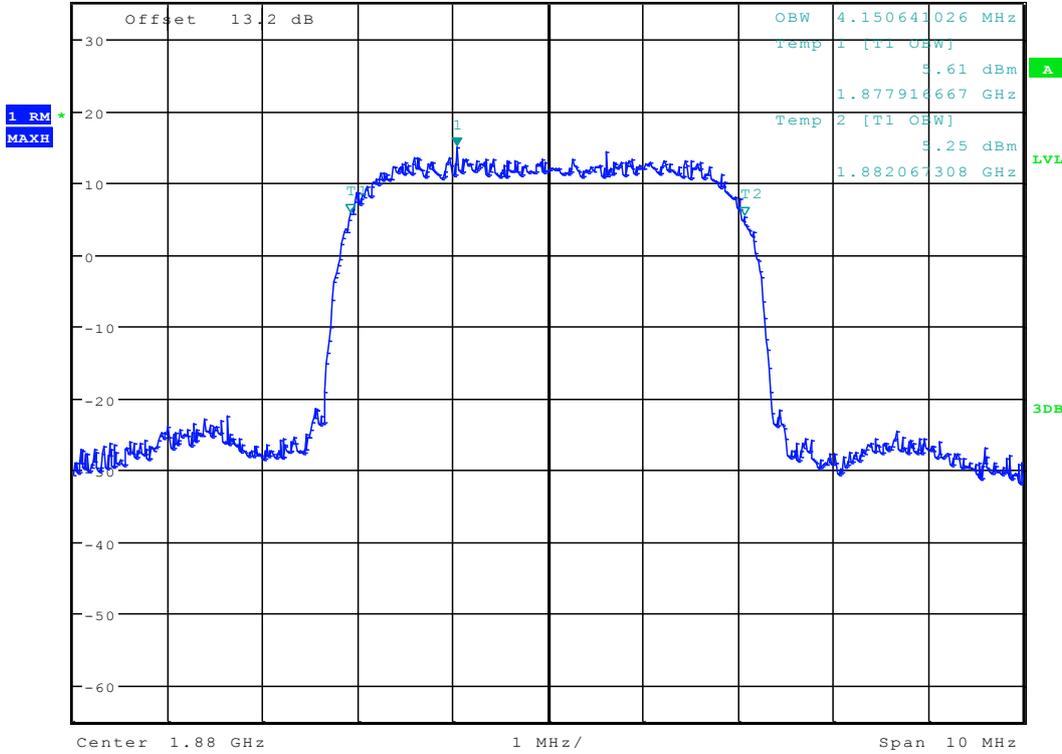
Date: 18.SEP.2012 16:23:11



1.1.2 Channel = M



*RBW 50 kHz Marker 1 [T1]
 *VBW 500 kHz 14.86 dBm
 Ref 35 dBm Att 30 dB SWT 5 ms 1.879038462 GHz



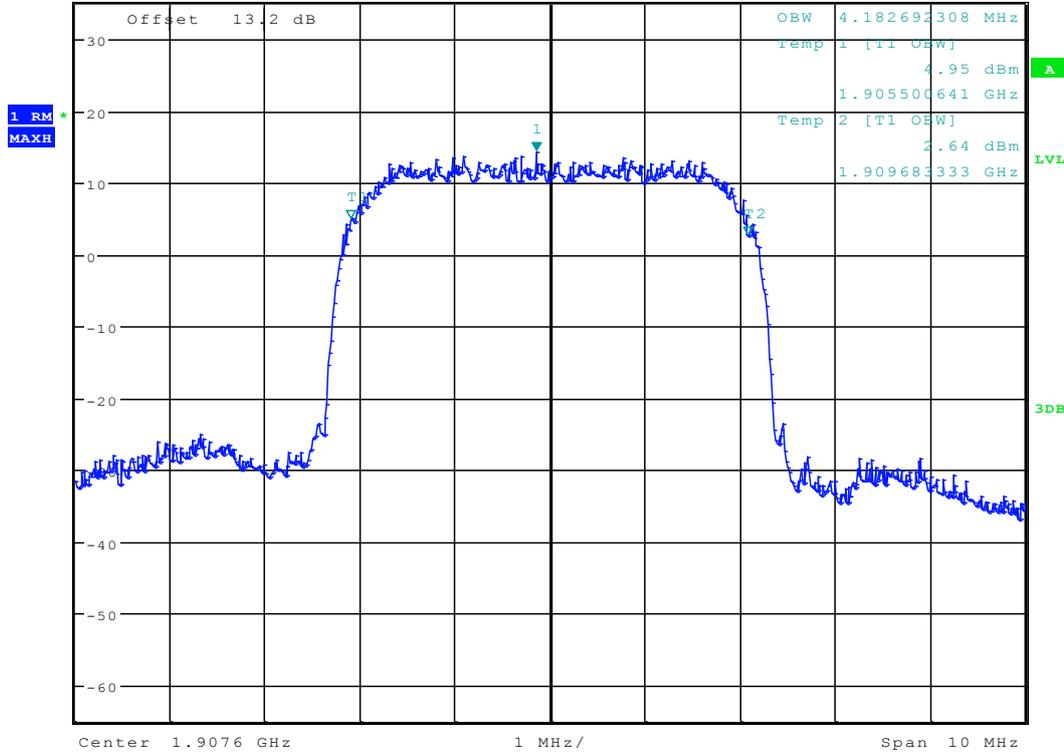
Date: 18.SEP.2012 16:23:25



1.1.3 Channel = T



*RBW 50 kHz Marker 1 [T1]
 *VBW 500 kHz 14.28 dBm
 Ref 35 dBm Att 30 dB SWT 5 ms 1.907455769 GHz



Date: 18.SEP.2012 16:23:39



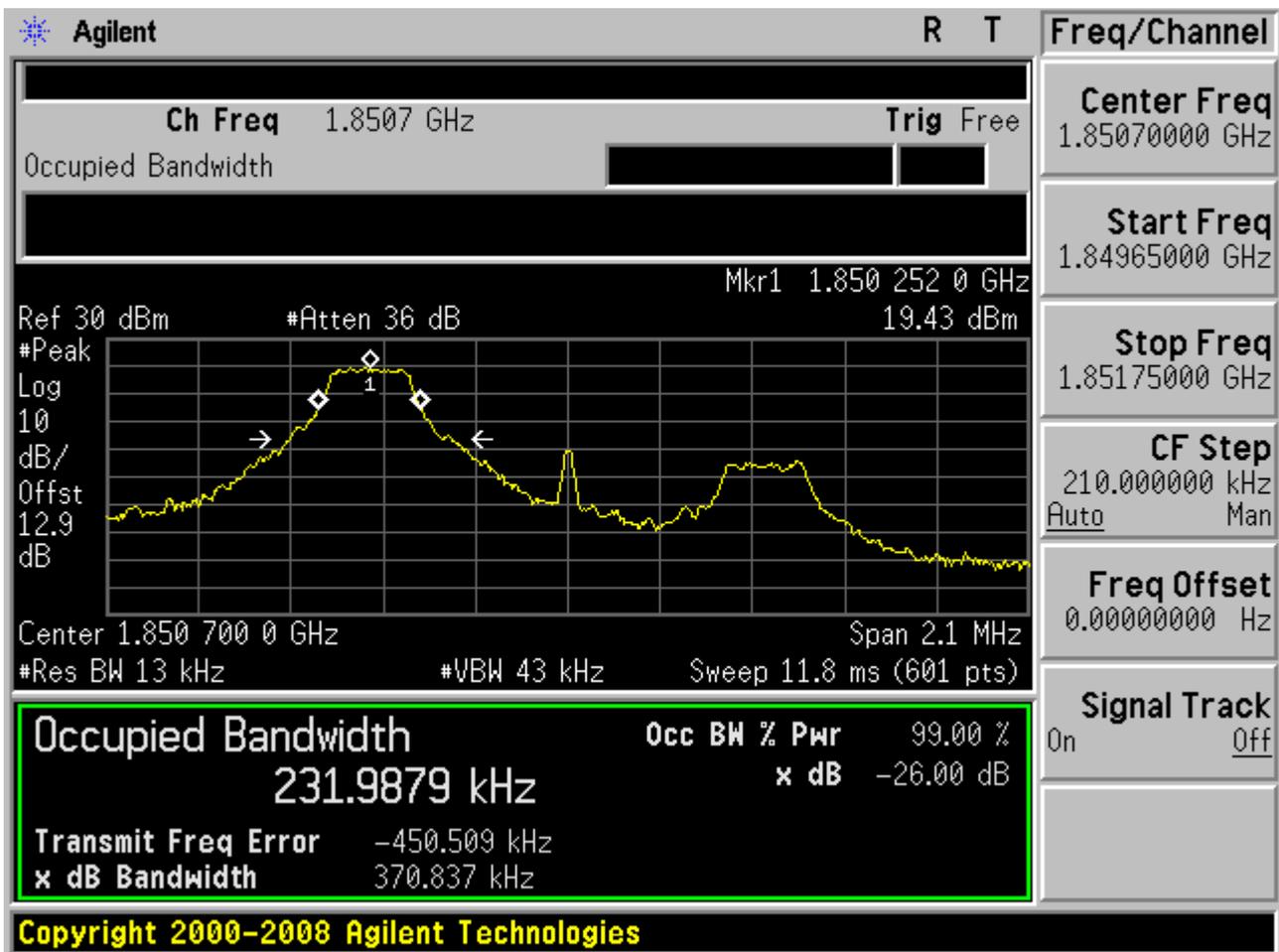
2 For LTE Band 2

2.1 Test Mode=TM4

2.1.1 Channel Bandwidth = 1.4 MHz

2.1.1.1 Channel = B

2.1.1.1.1 QPSK/1RB # 0





2.1.1.1.2 QPSK/1RB # max



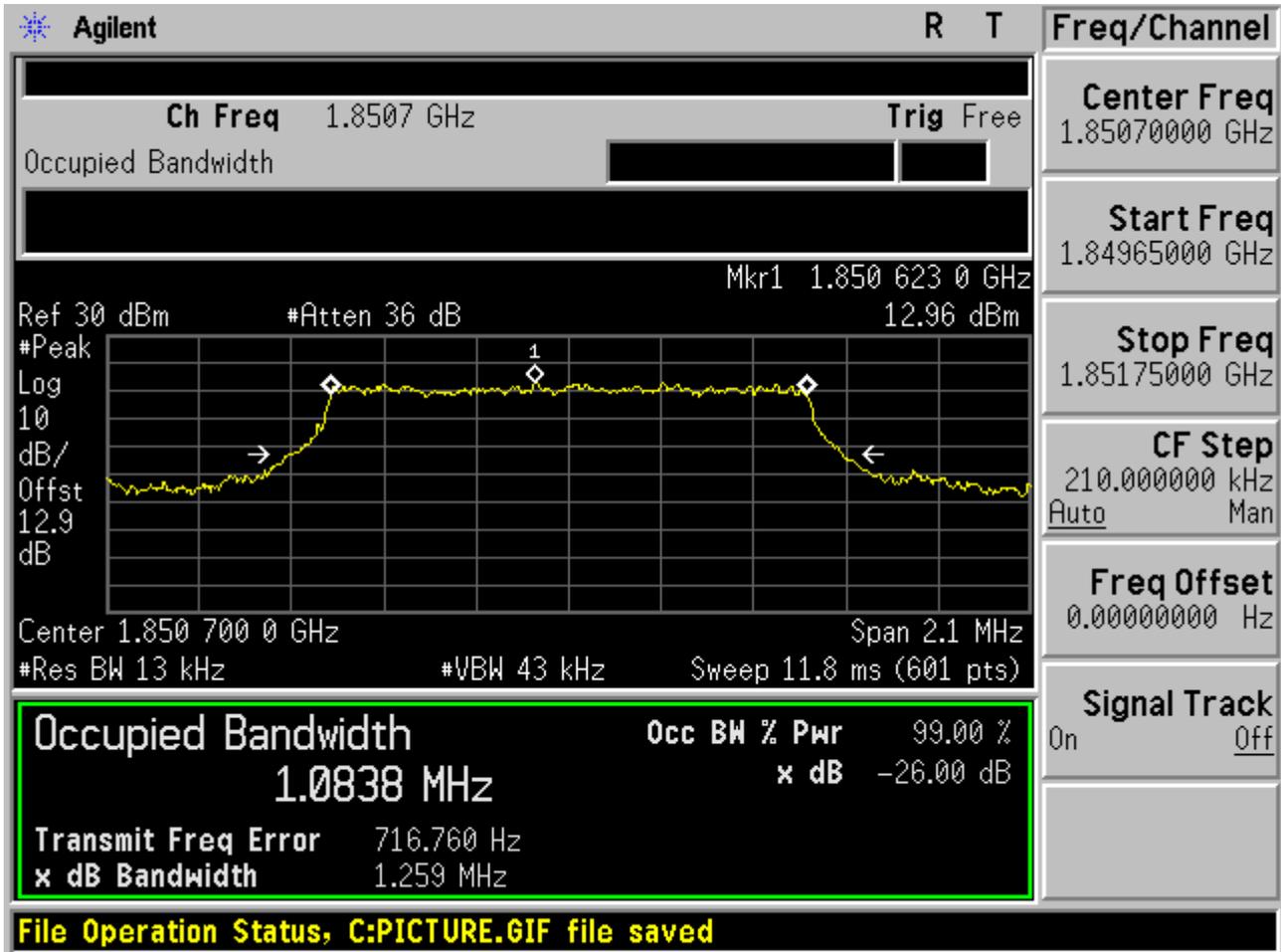


2.1.1.1.3 QPSK/non-1RB #mid/2





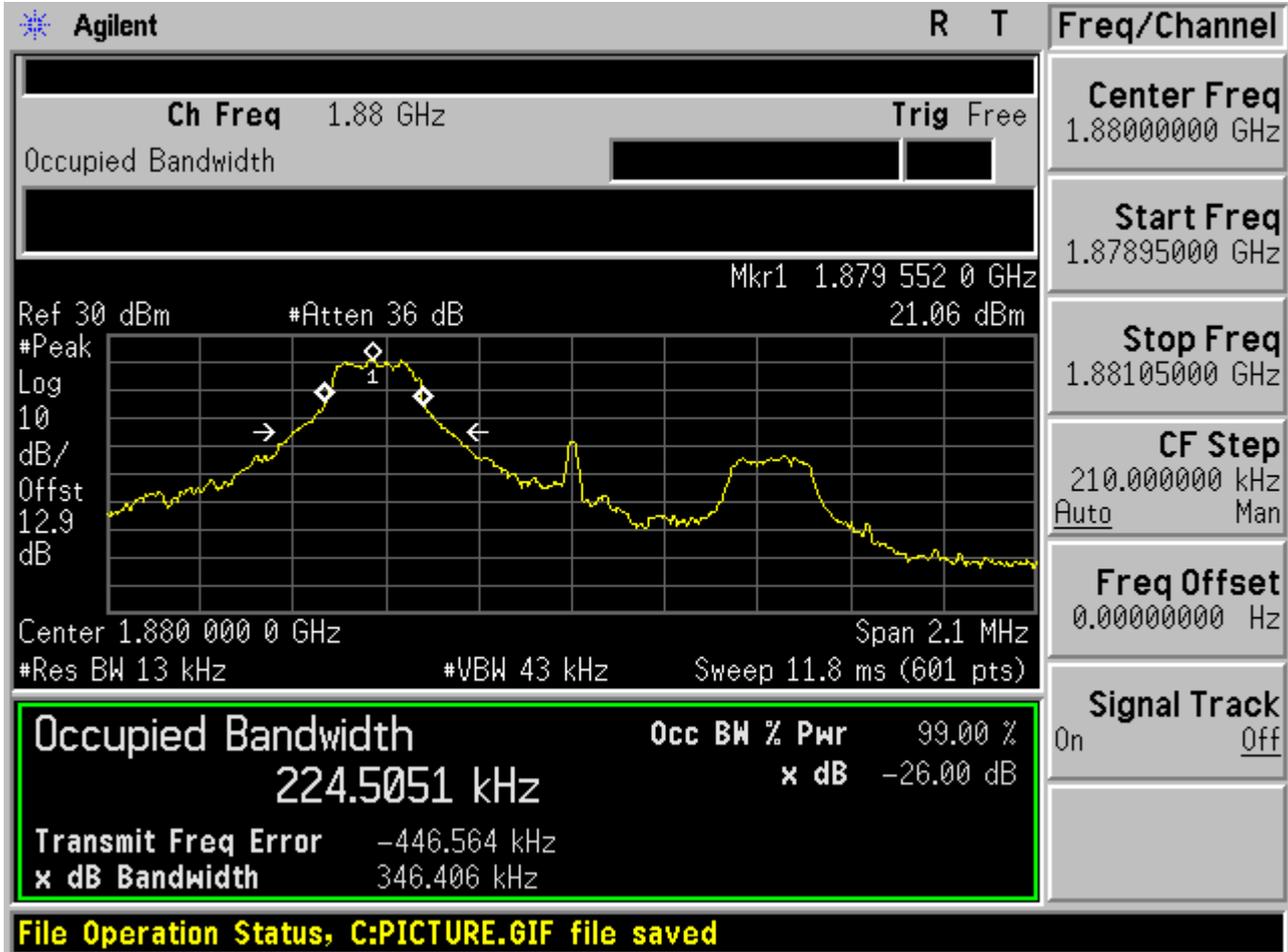
2.1.1.1.4 QPSK/full RBs





2.1.1.2 Channel =M

2.1.1.2.1 QPSK/1RB # 0



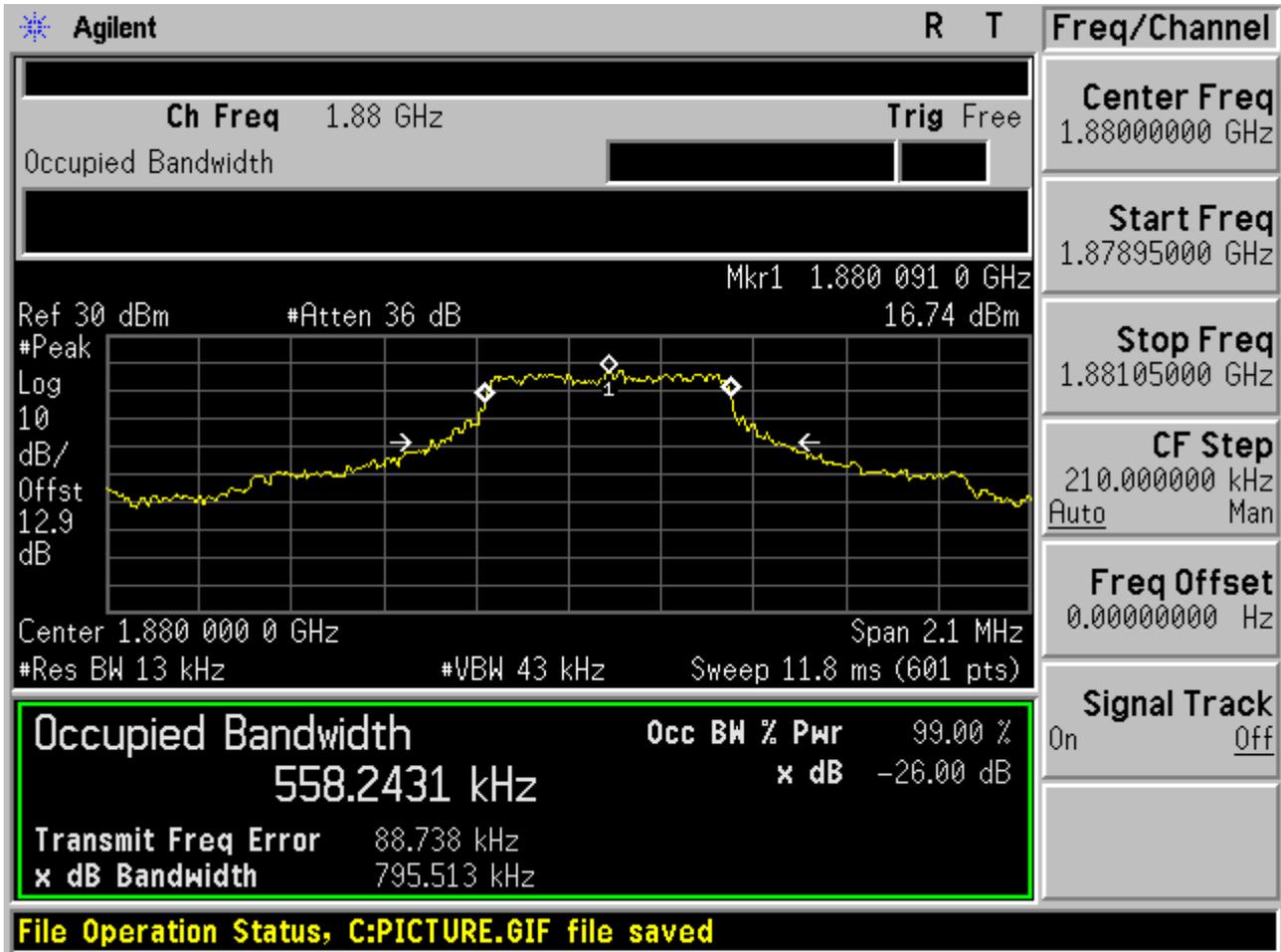


2.1.1.2.2 QPSK/1RB # max



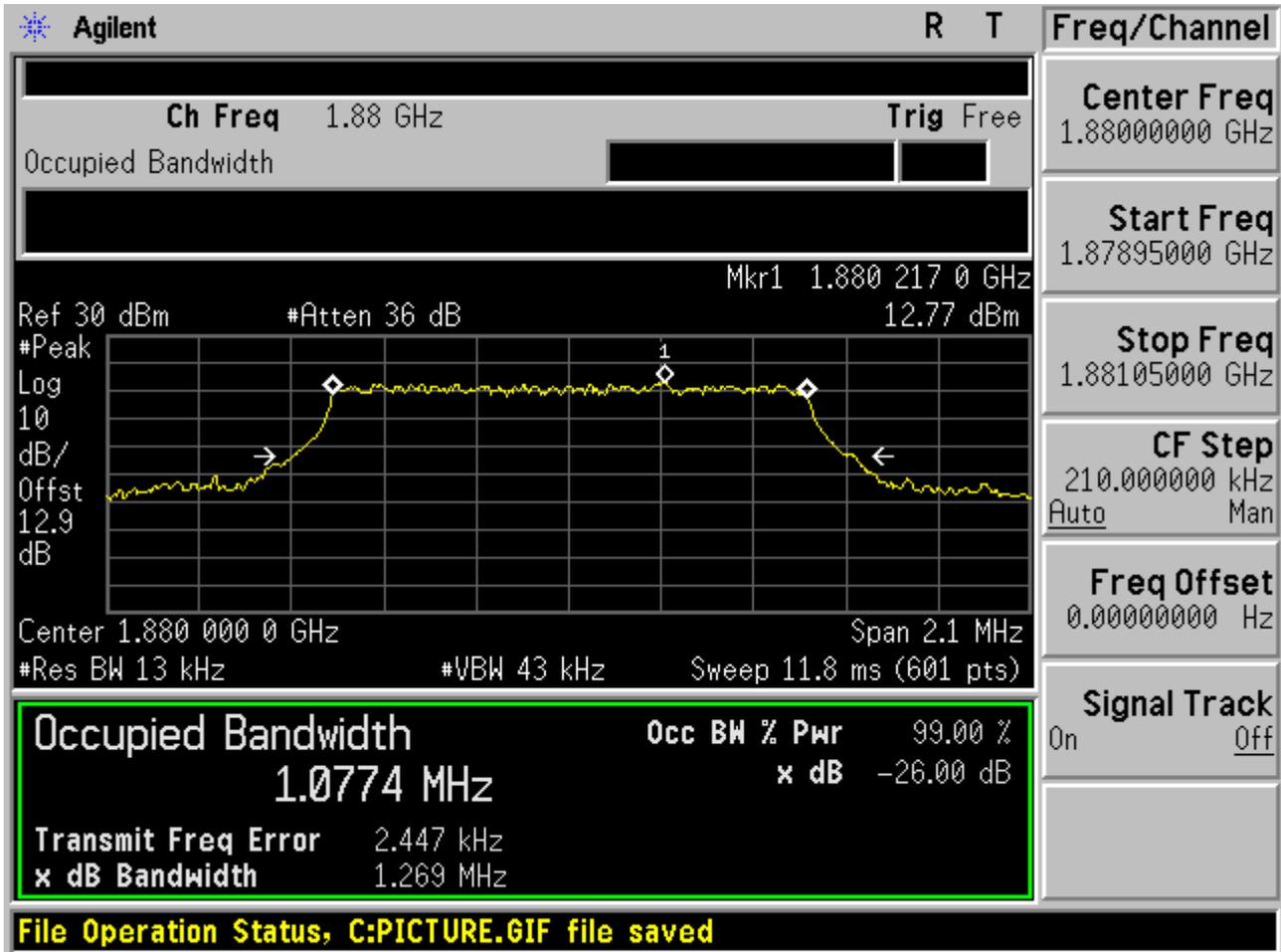


2.1.1.2.3 QPSK/non-1RB #mid/2





2.1.1.2.4 QPSK/full RBs





2.1.1.3 Channel = T

2.1.1.3.1 QPSK/1RB # 0



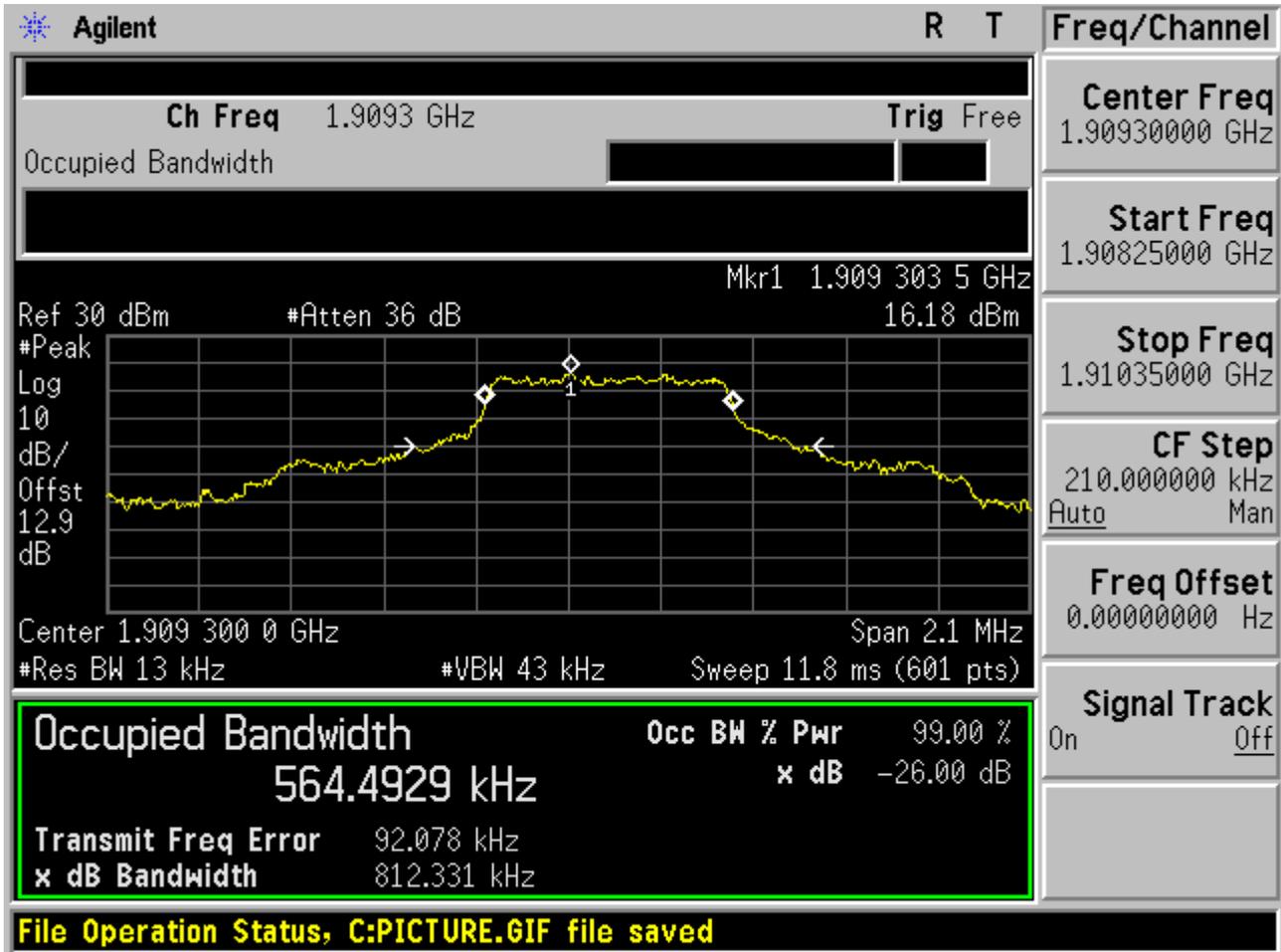


2.1.1.3.2 QPSK/1RB # max



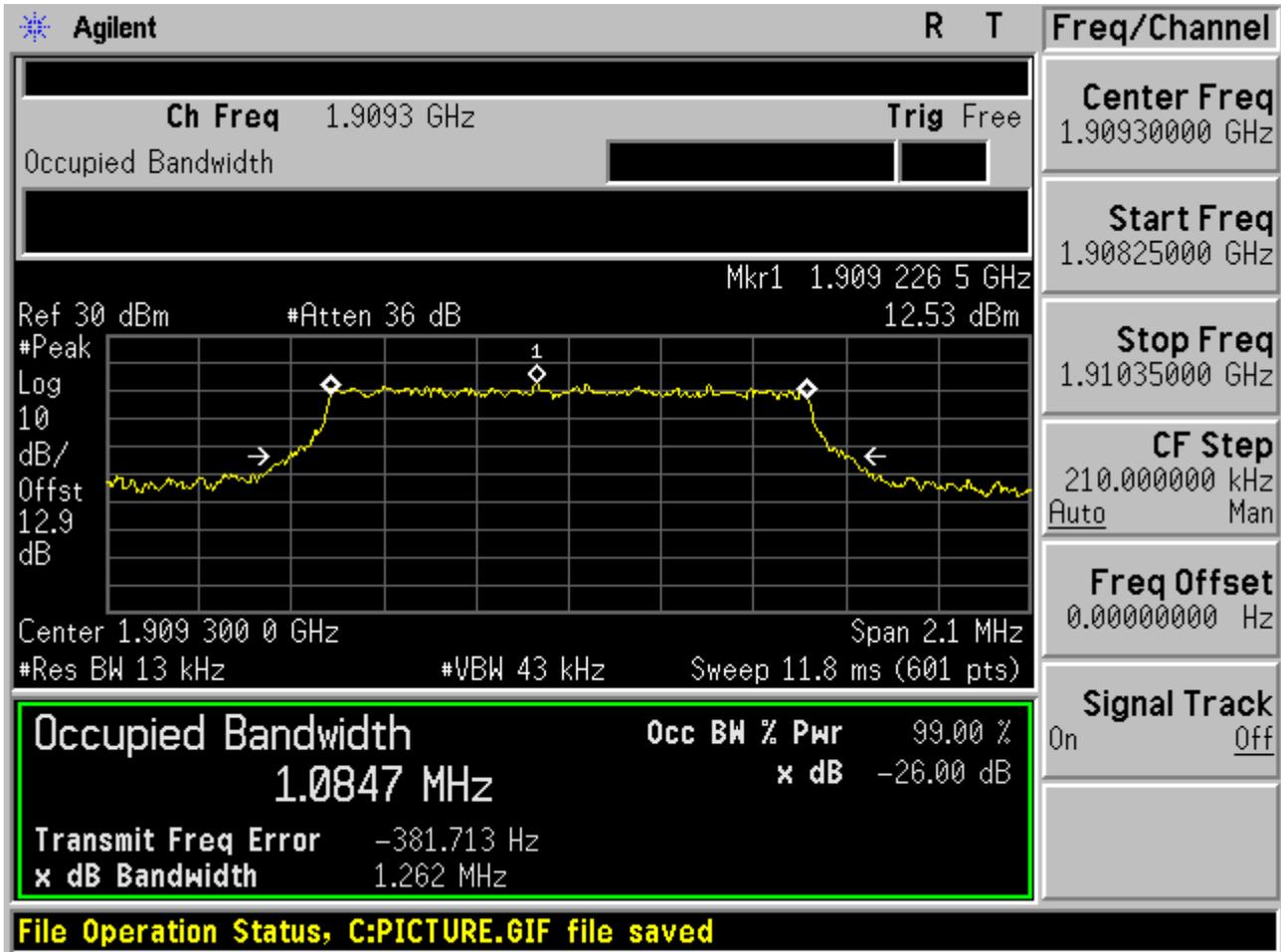


2.1.1.3.3 QPSK/non-1RB #mid/2





2.1.1.3.4 QPSK/full RBs

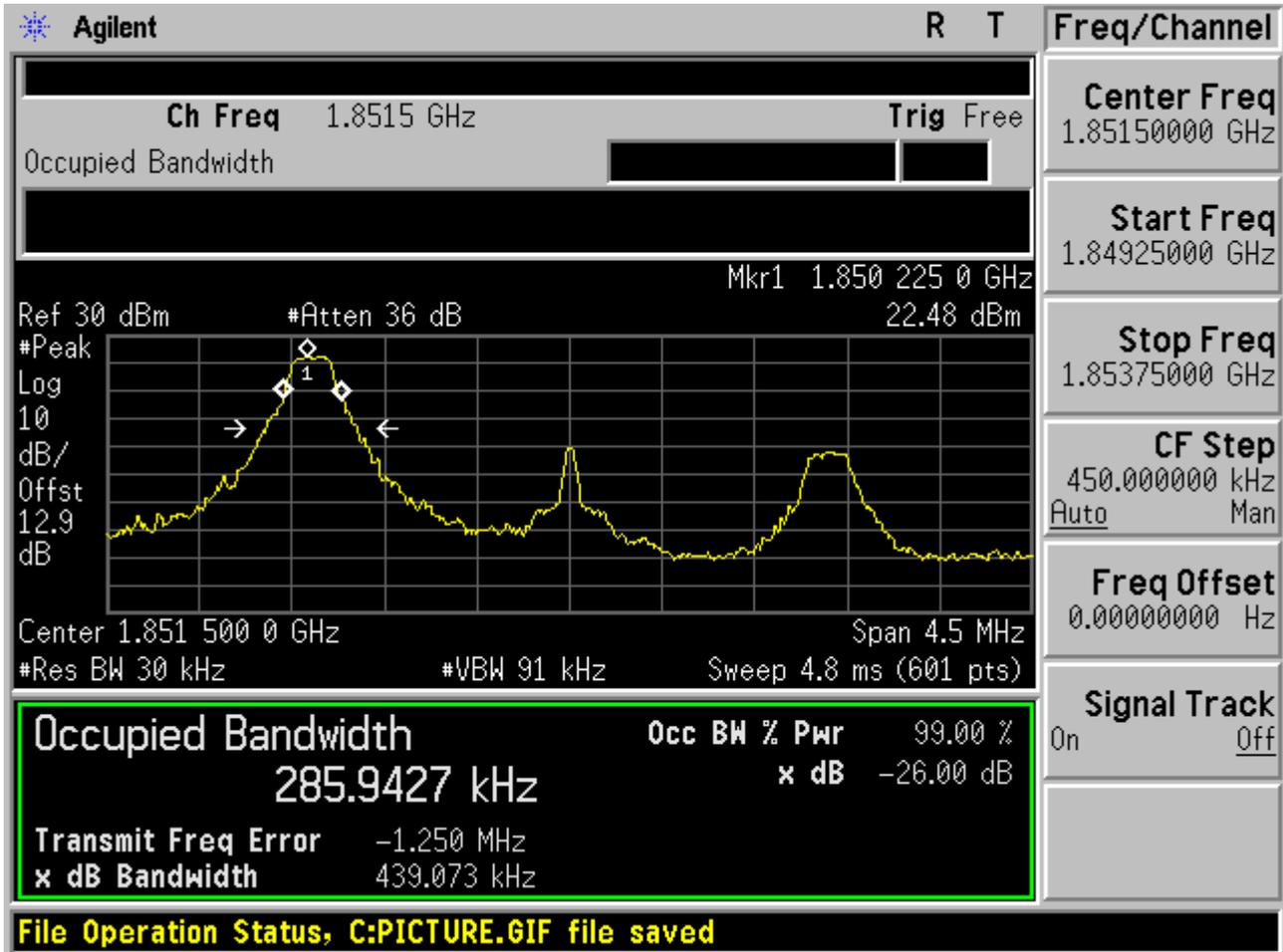




2.1.2 Channel Bandwidth = 3 MHz

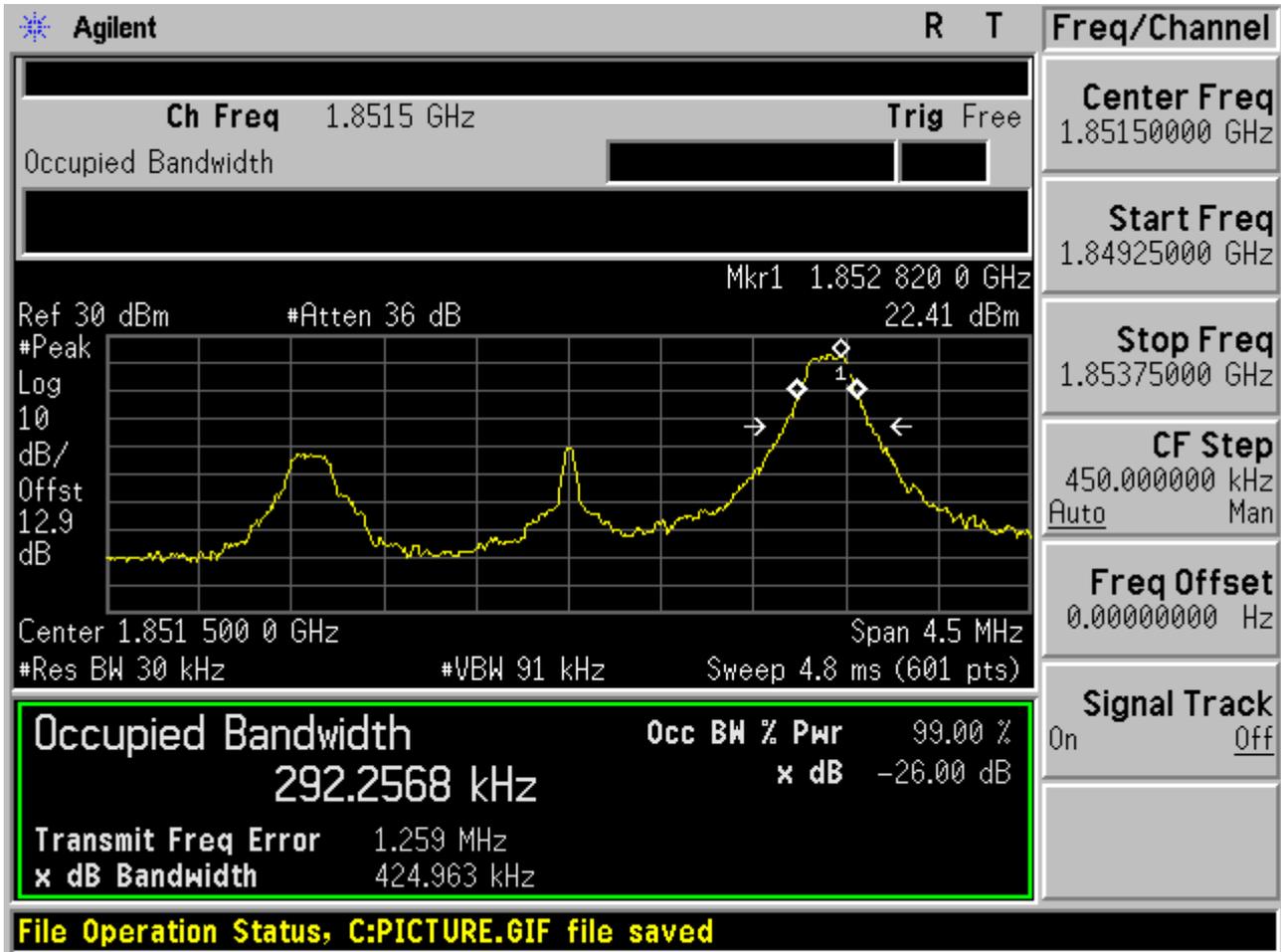
2.1.2.1 Channel = B

2.1.2.1.1 QPSK/1RB # 0



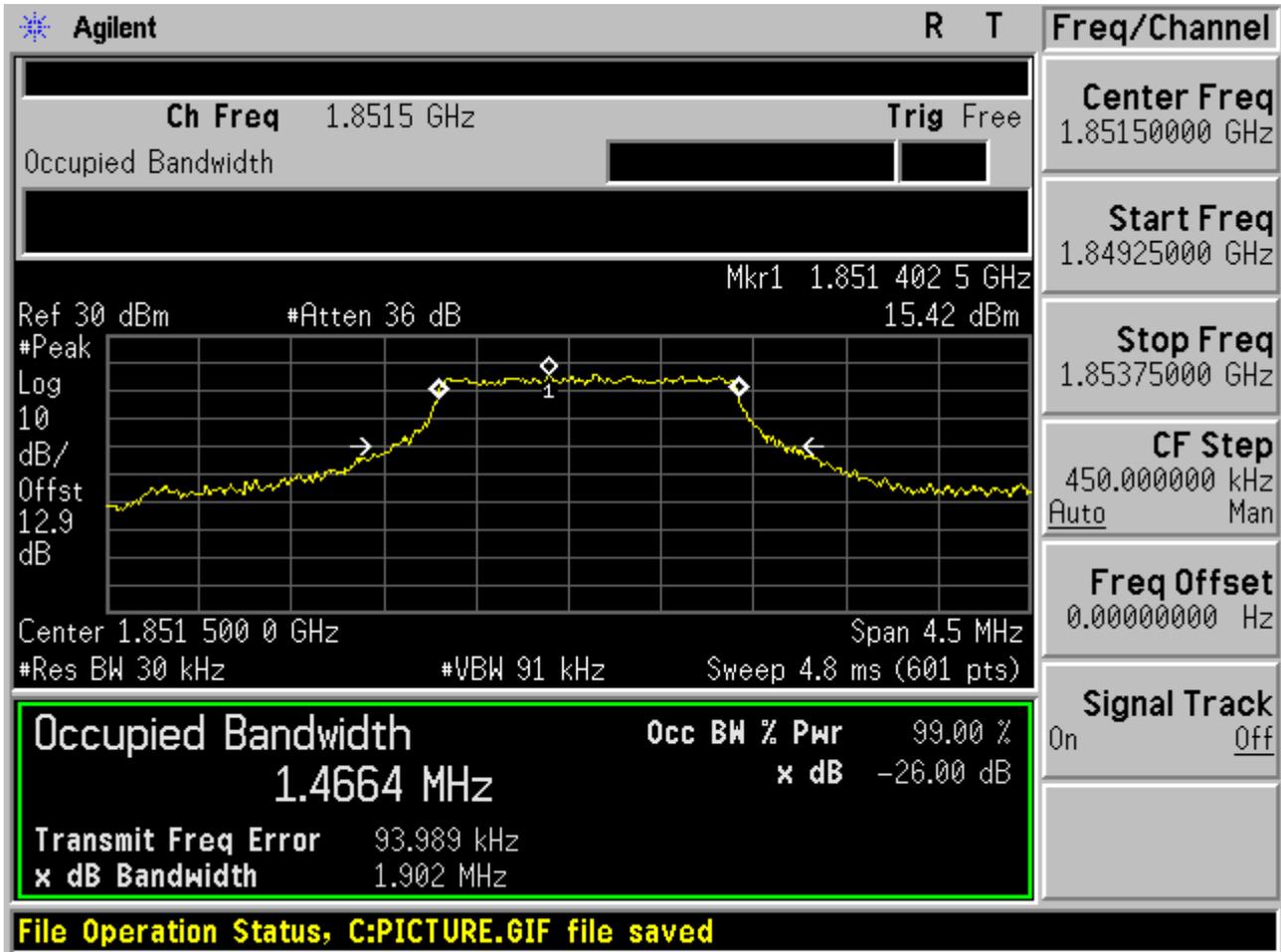


2.1.2.1.2 QPSK/1RB # max



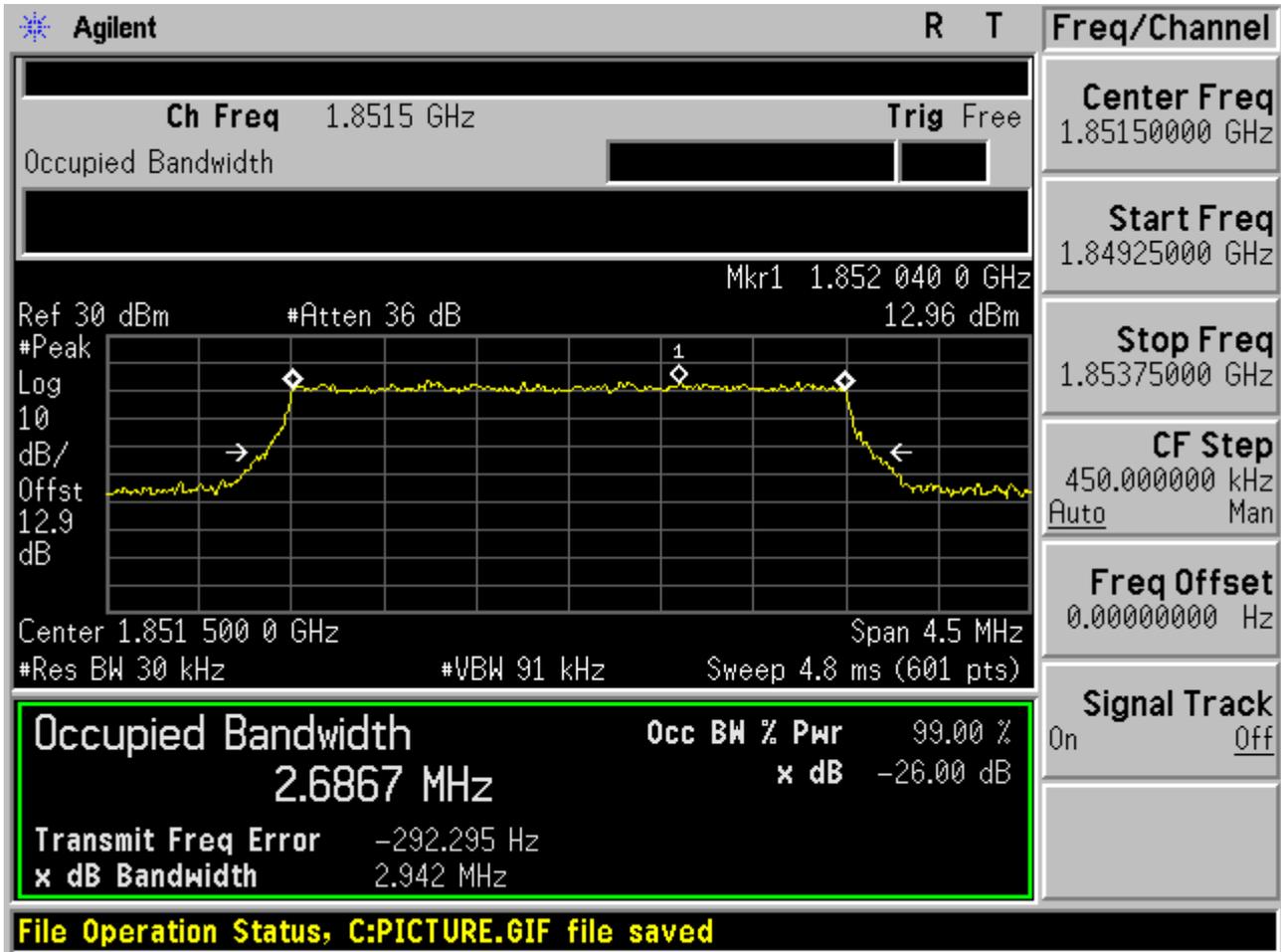


2.1.2.1.3 QPSK/non-1RB #mid/2





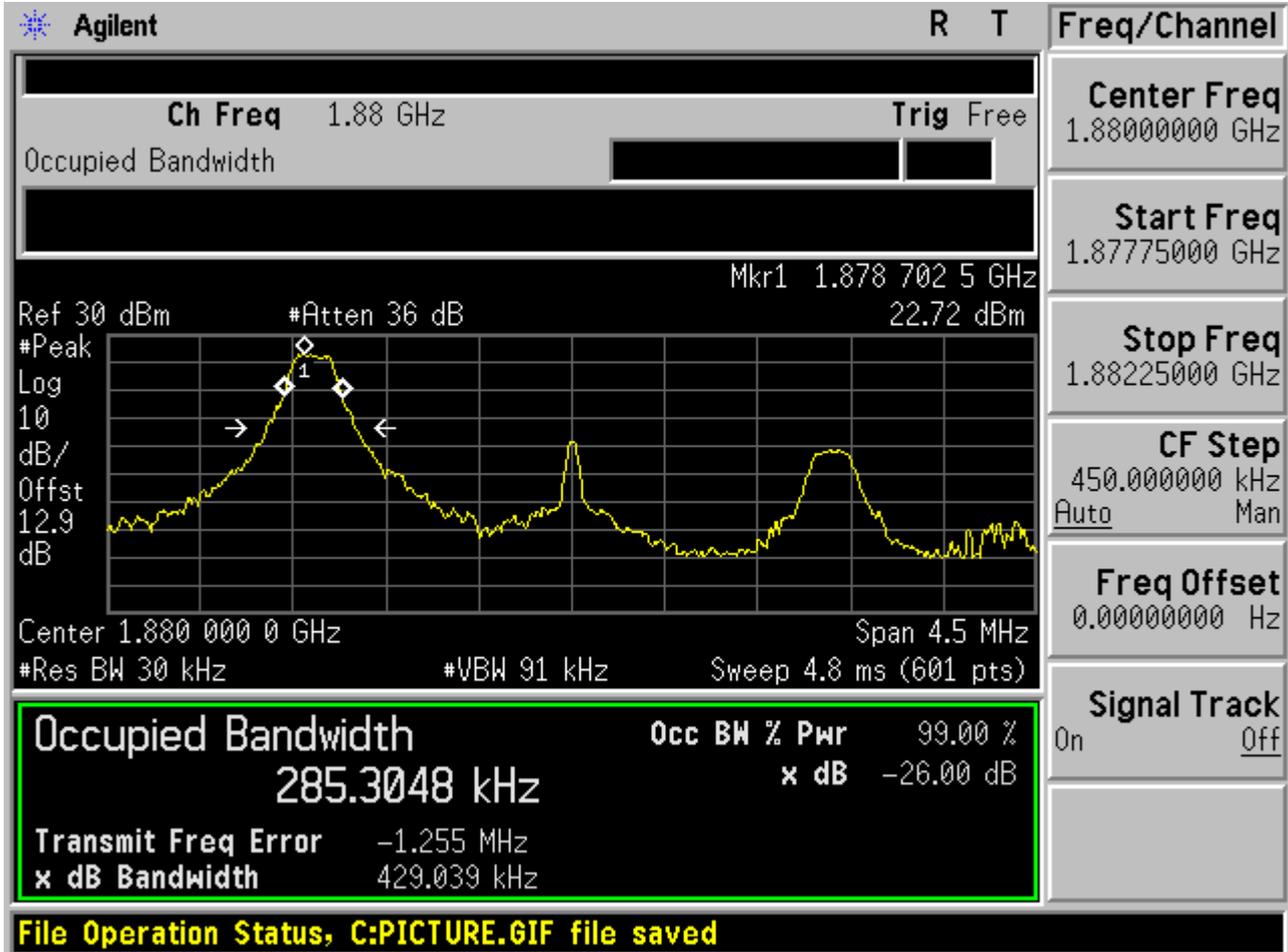
2.1.2.1.4 QPSK/full RBs





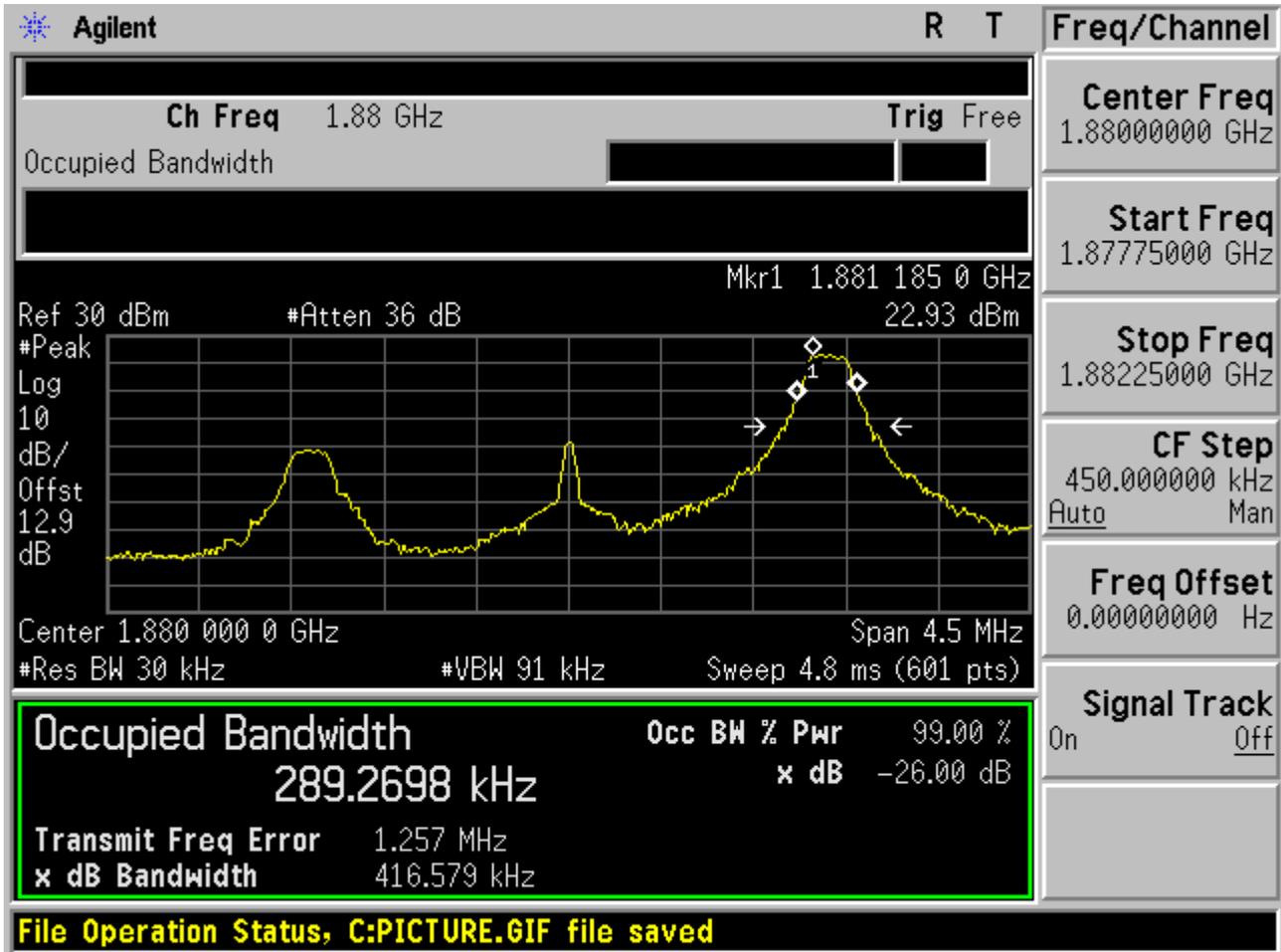
2.1.2.2 Channel =M

2.1.2.2.1 QPSK/1RB # 0



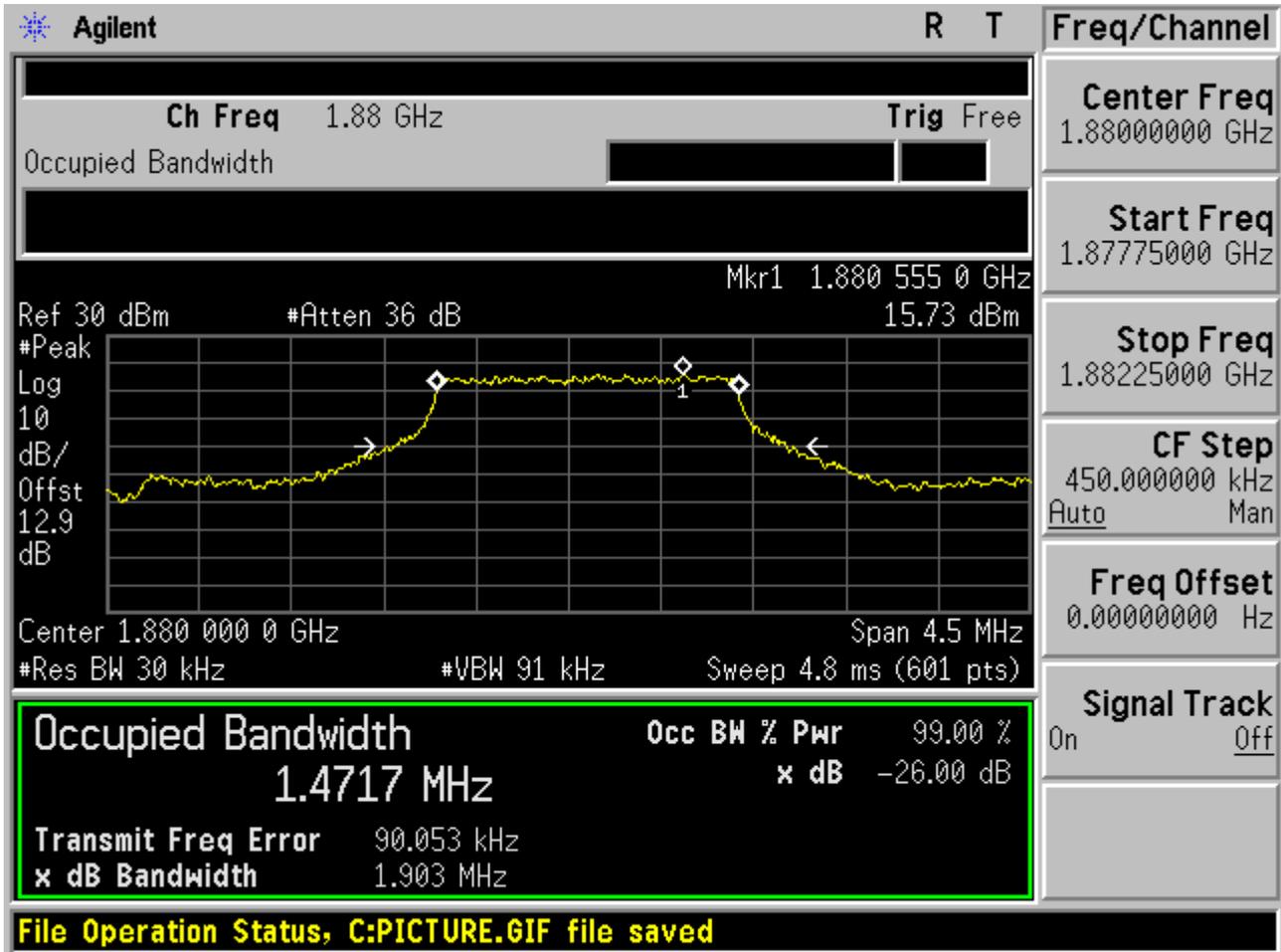


2.1.2.2.2 QPSK/1RB # max



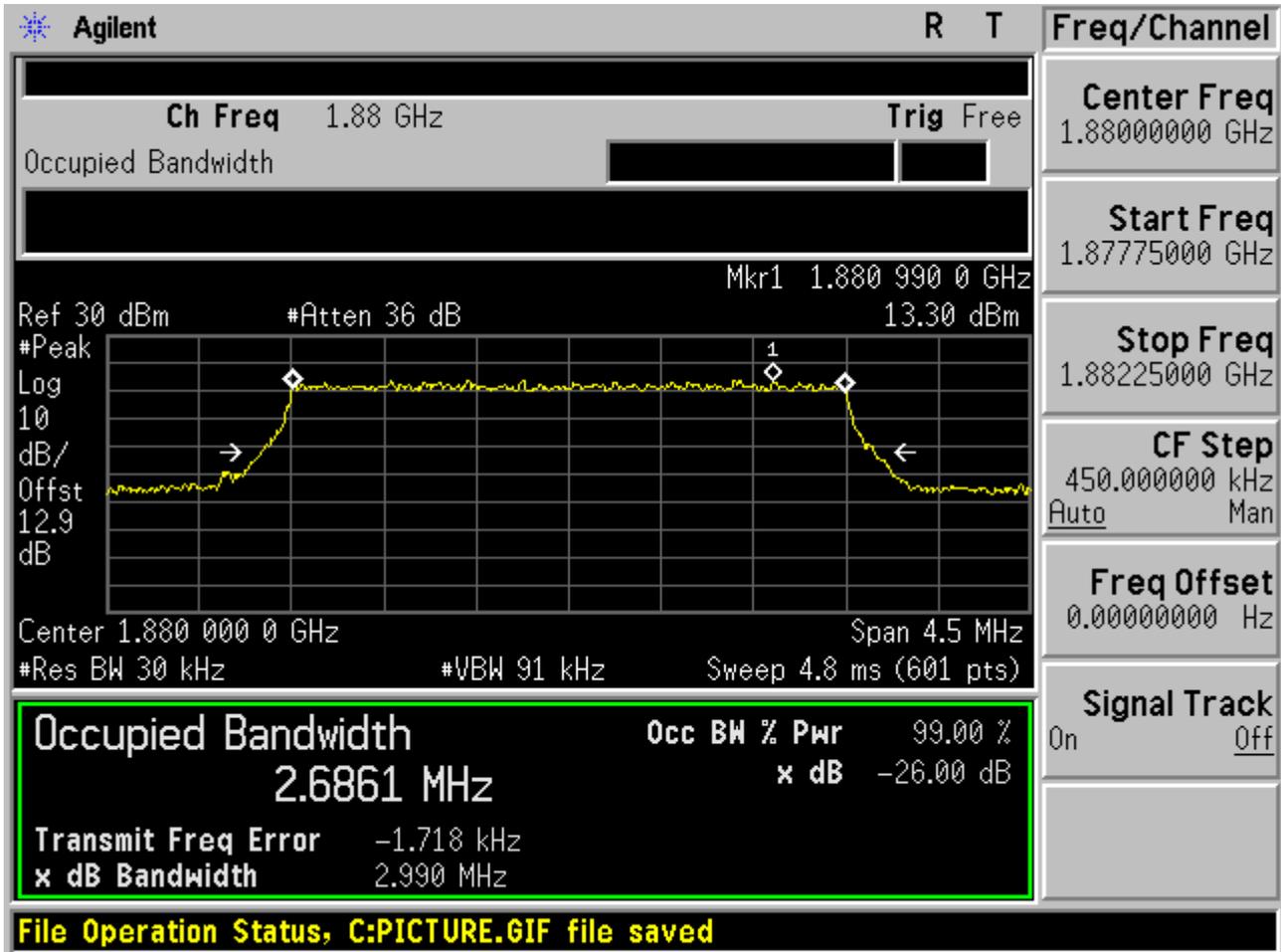


2.1.2.2.3 QPSK/non-1RB #mid/2





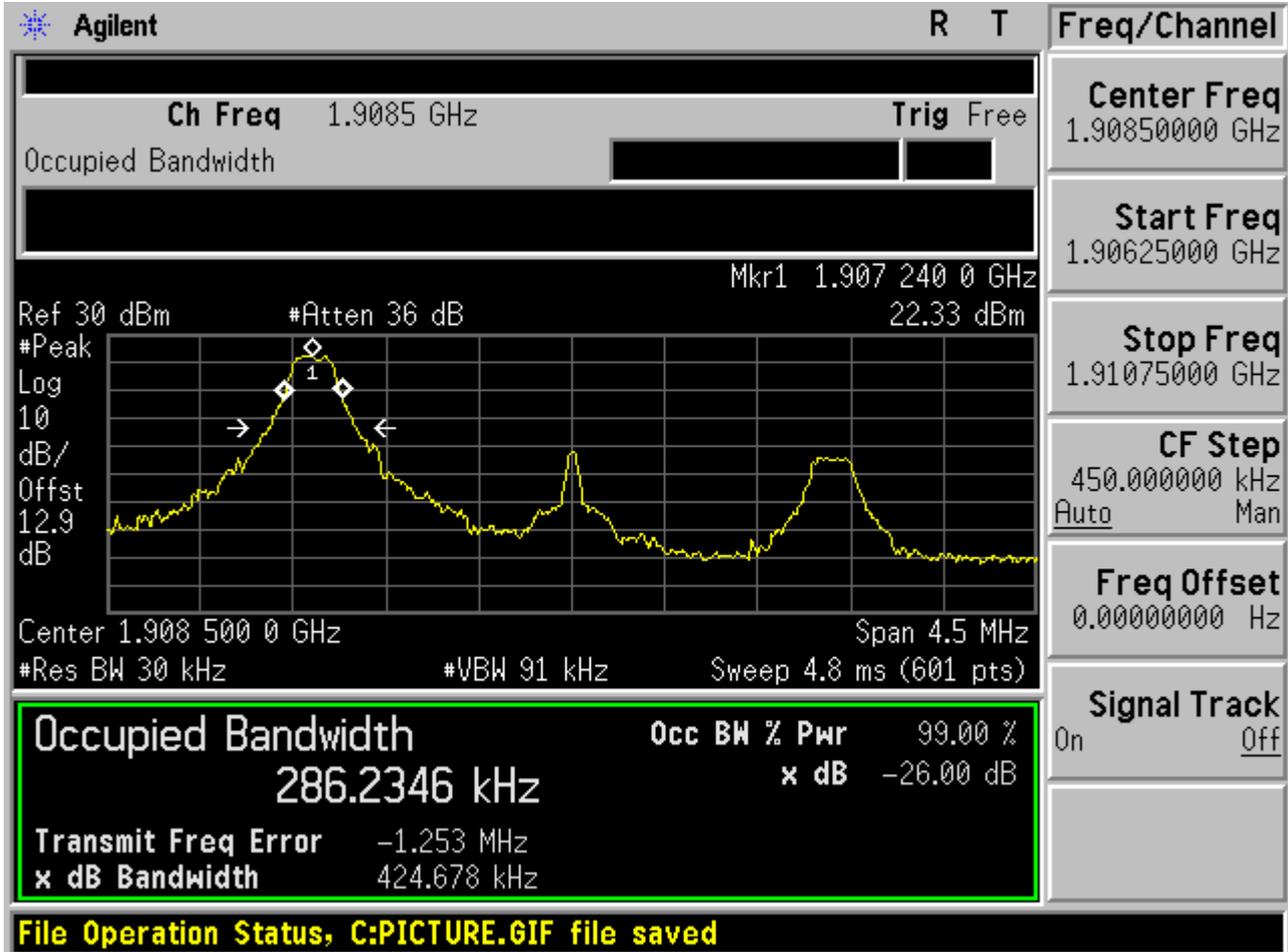
2.1.2.2.4 QPSK/full RBs





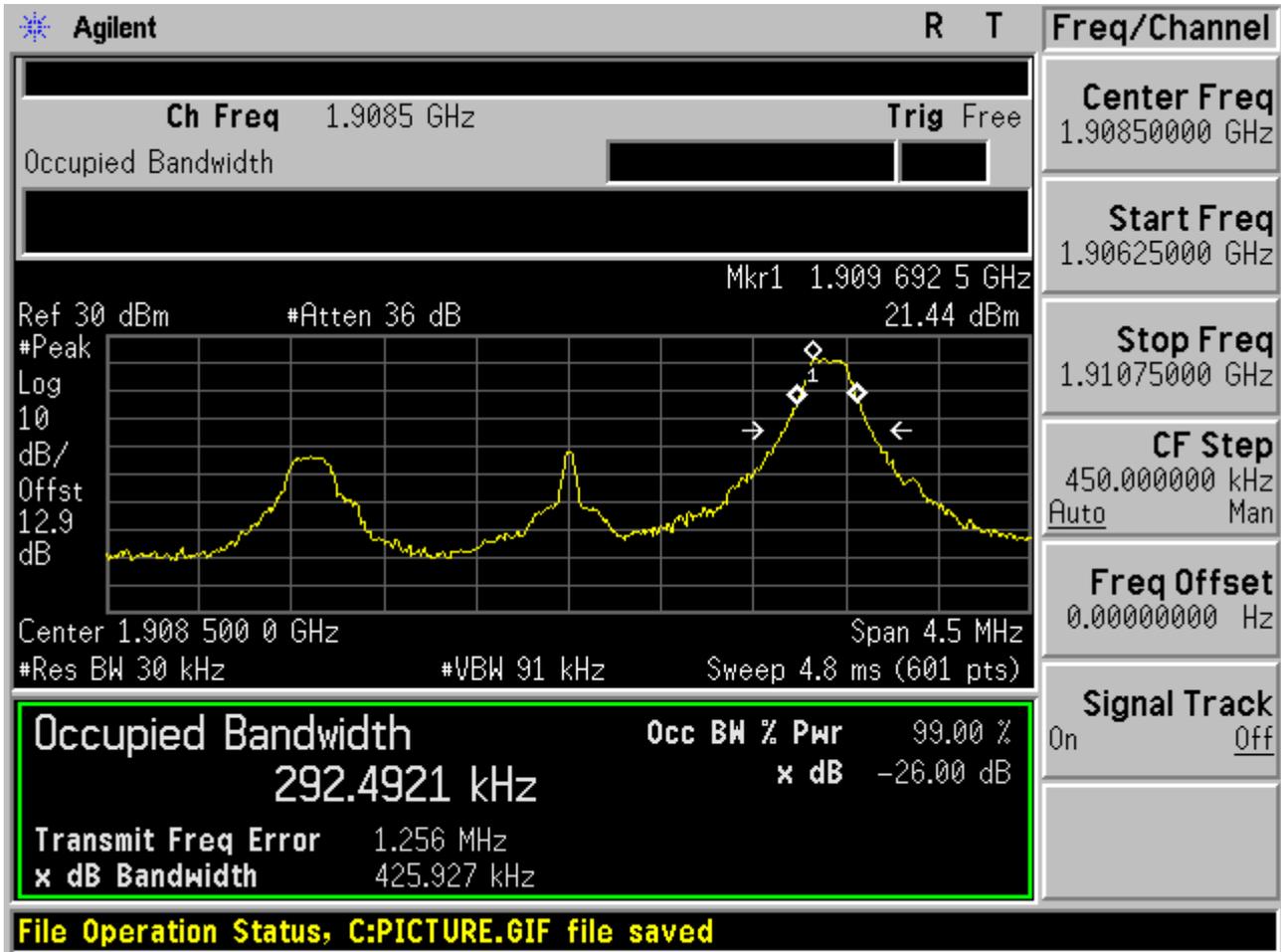
2.1.2.3 Channel = T

2.1.2.3.1 QPSK/1RB # 0



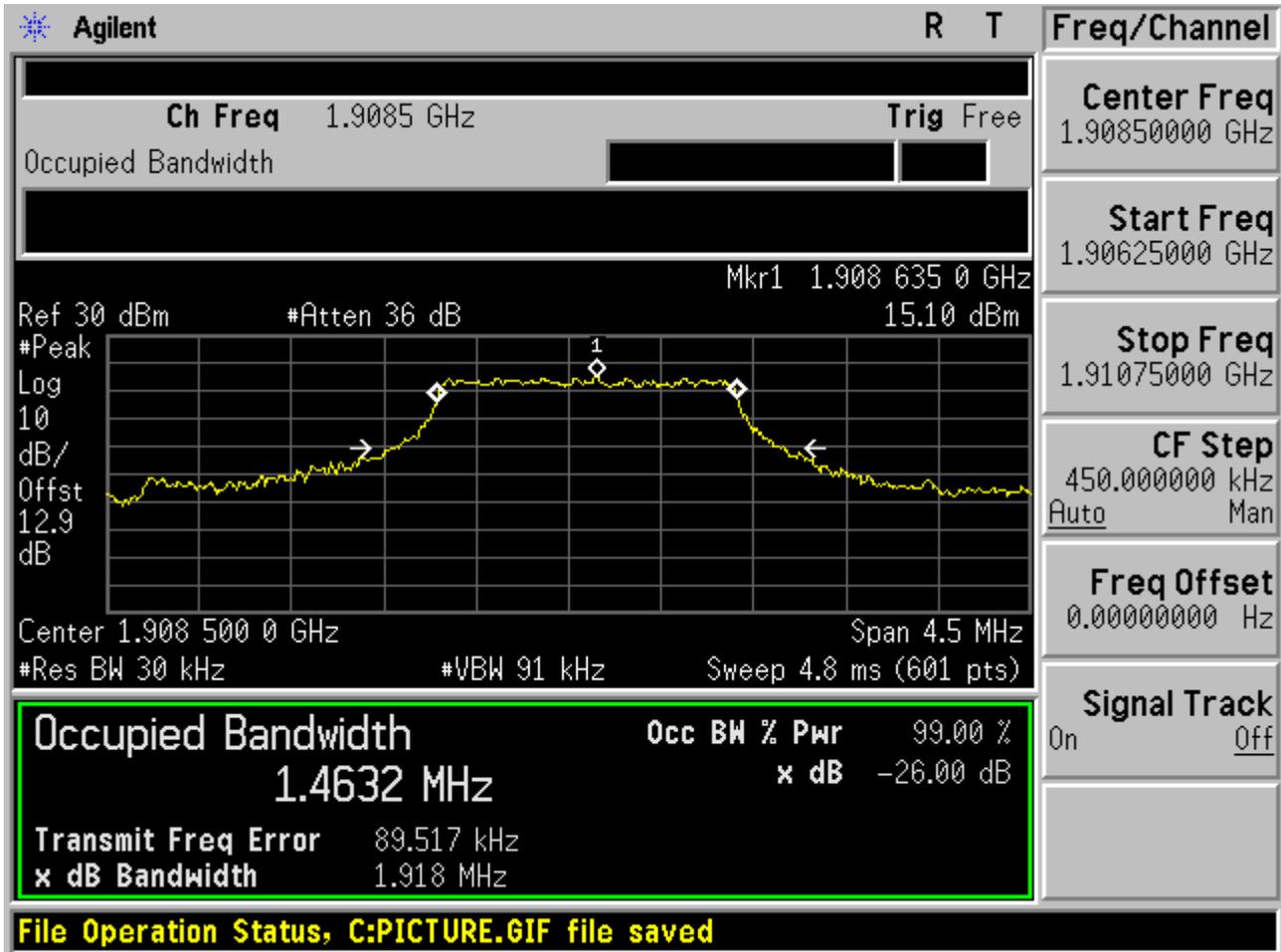


2.1.2.3.2 QPSK/1RB # max



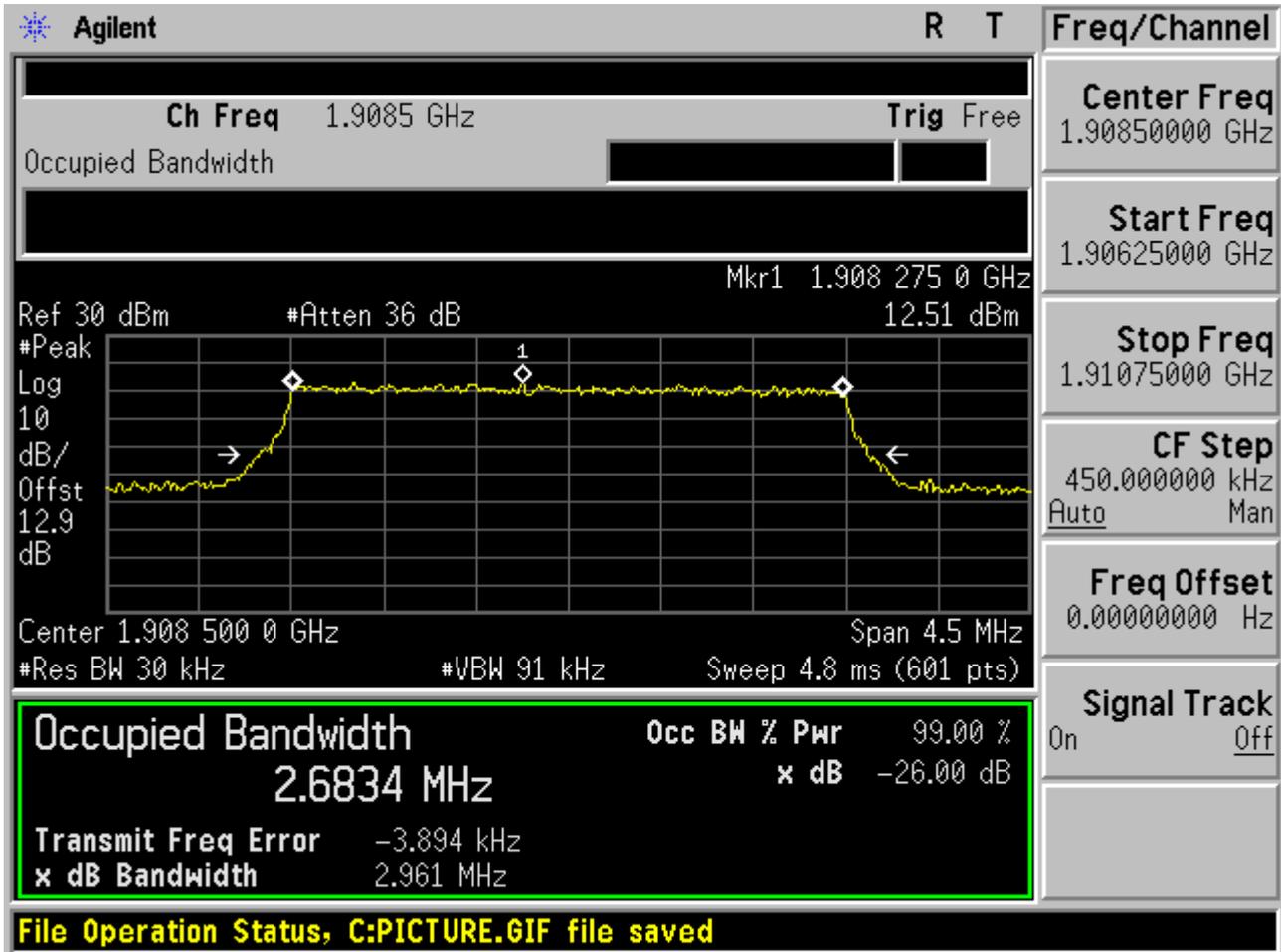


2.1.2.3.3 QPSK/non-1RB #mid/2





2.1.2.3.4 QPSK/full RBs

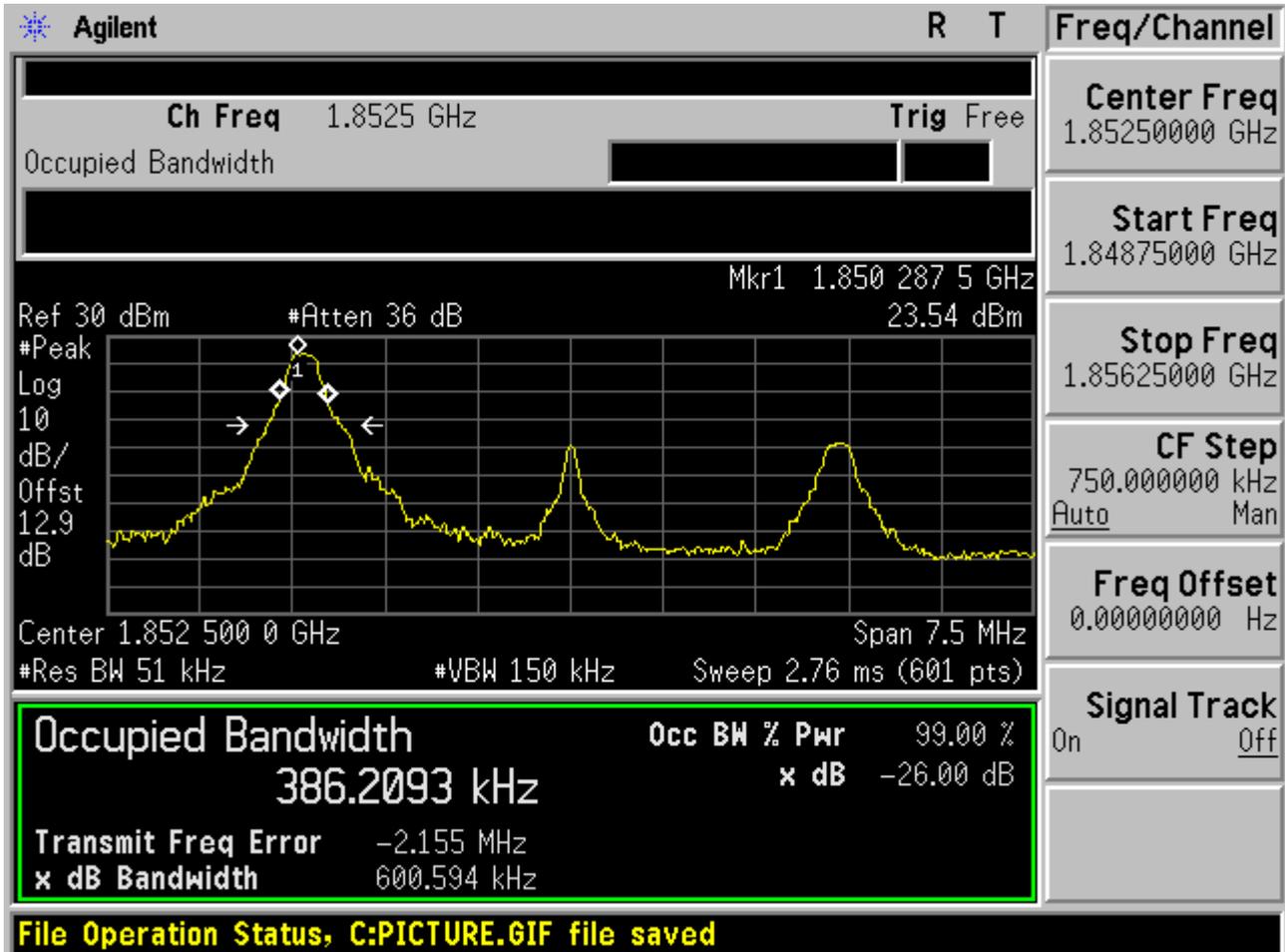




2.1.3 Channel Bandwidth = 5 MHz

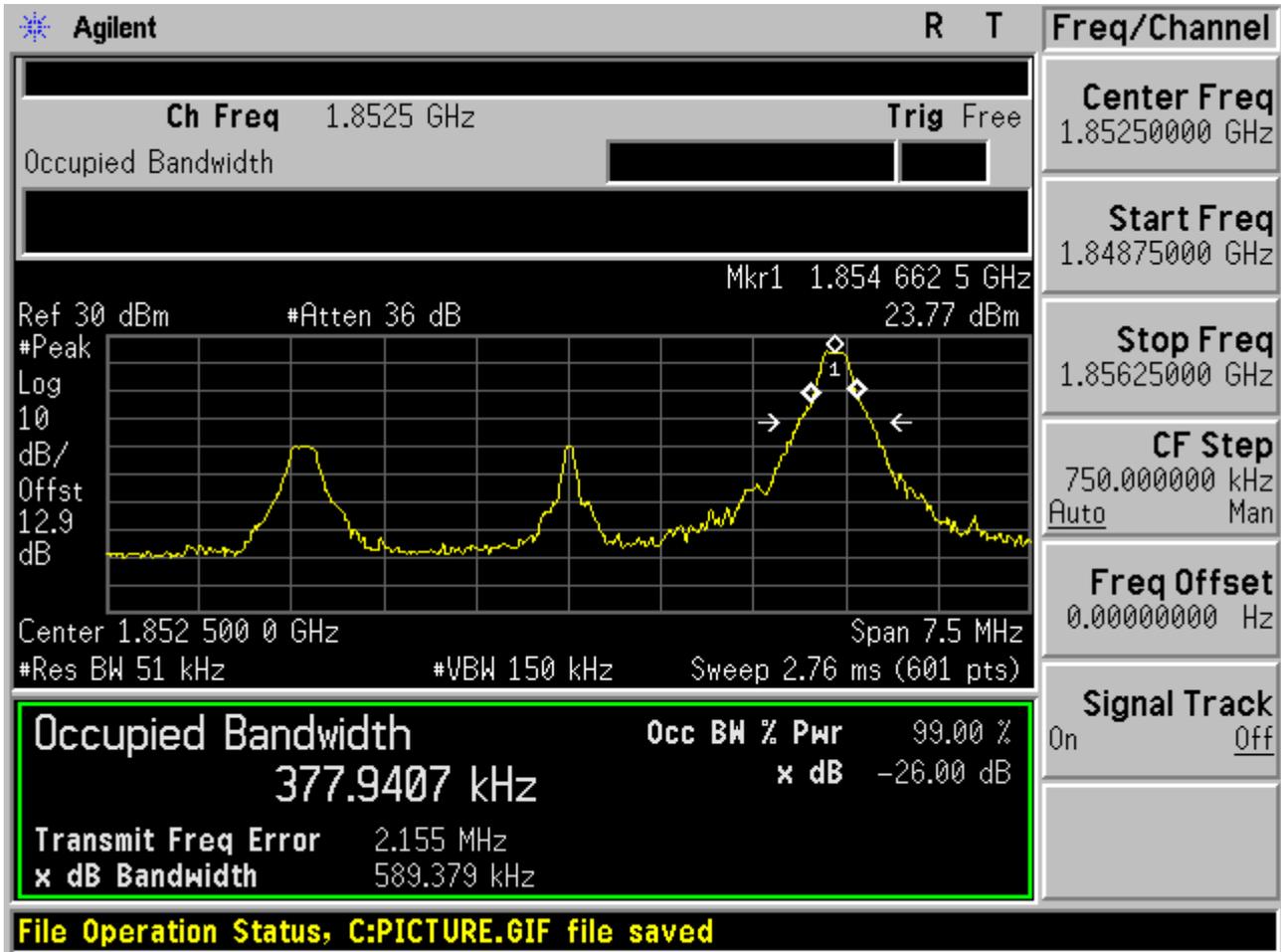
2.1.3.1 Channel = B

2.1.3.1.1 QPSK/1RB # 0



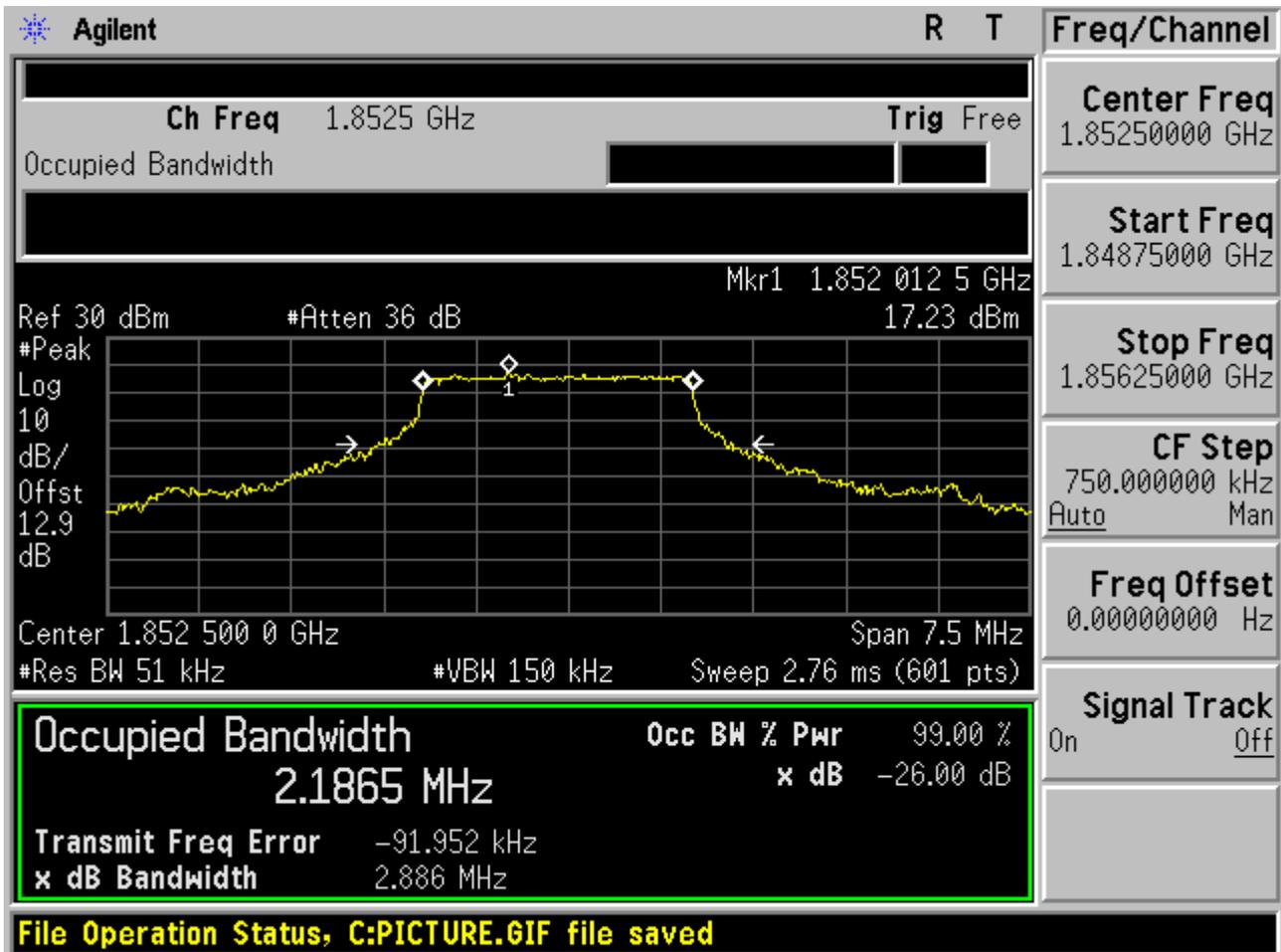


2.1.3.1.2 QPSK/1RB # max



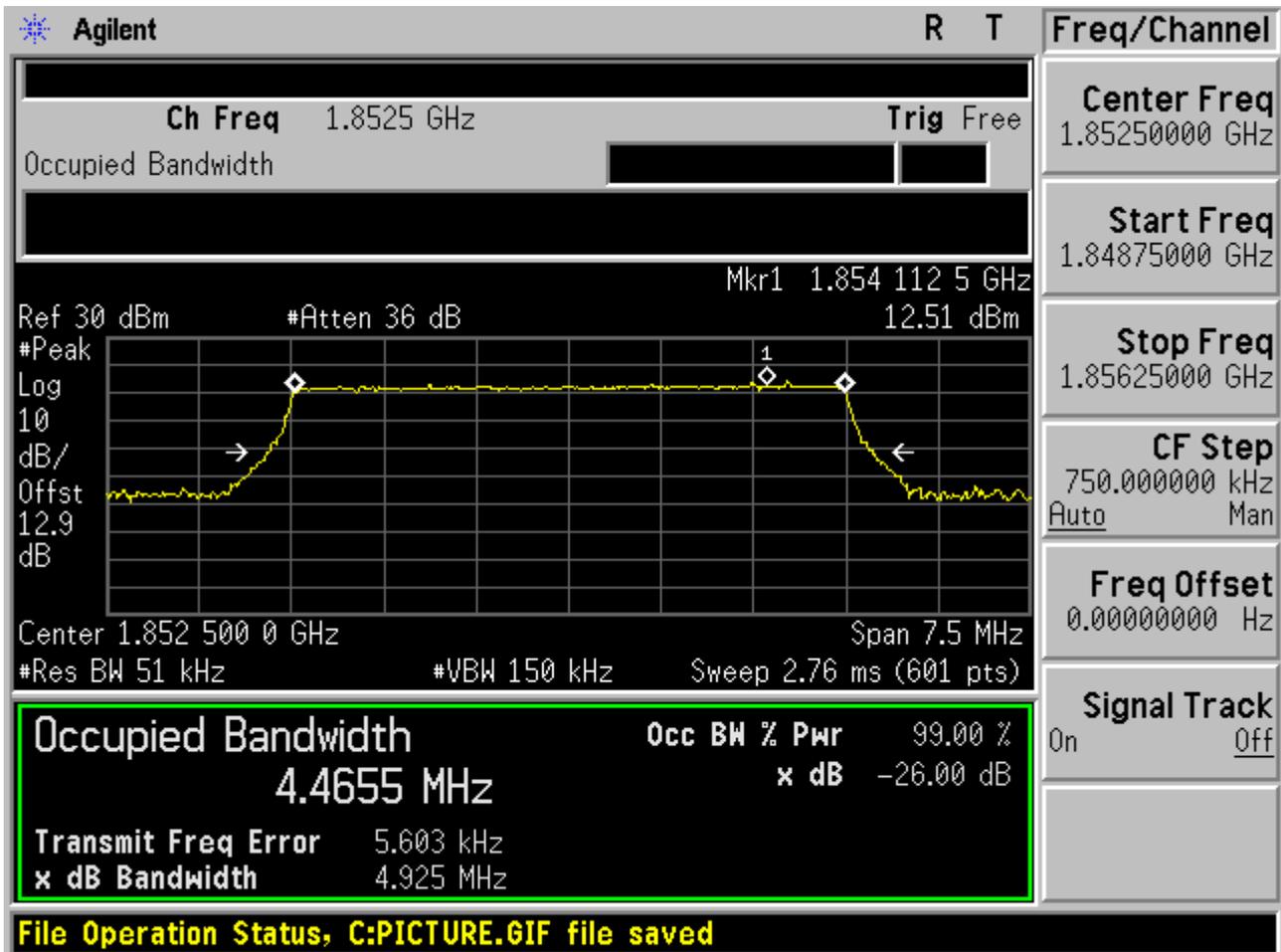


2.1.3.1.3 QPSK/non-1RB #mid/2





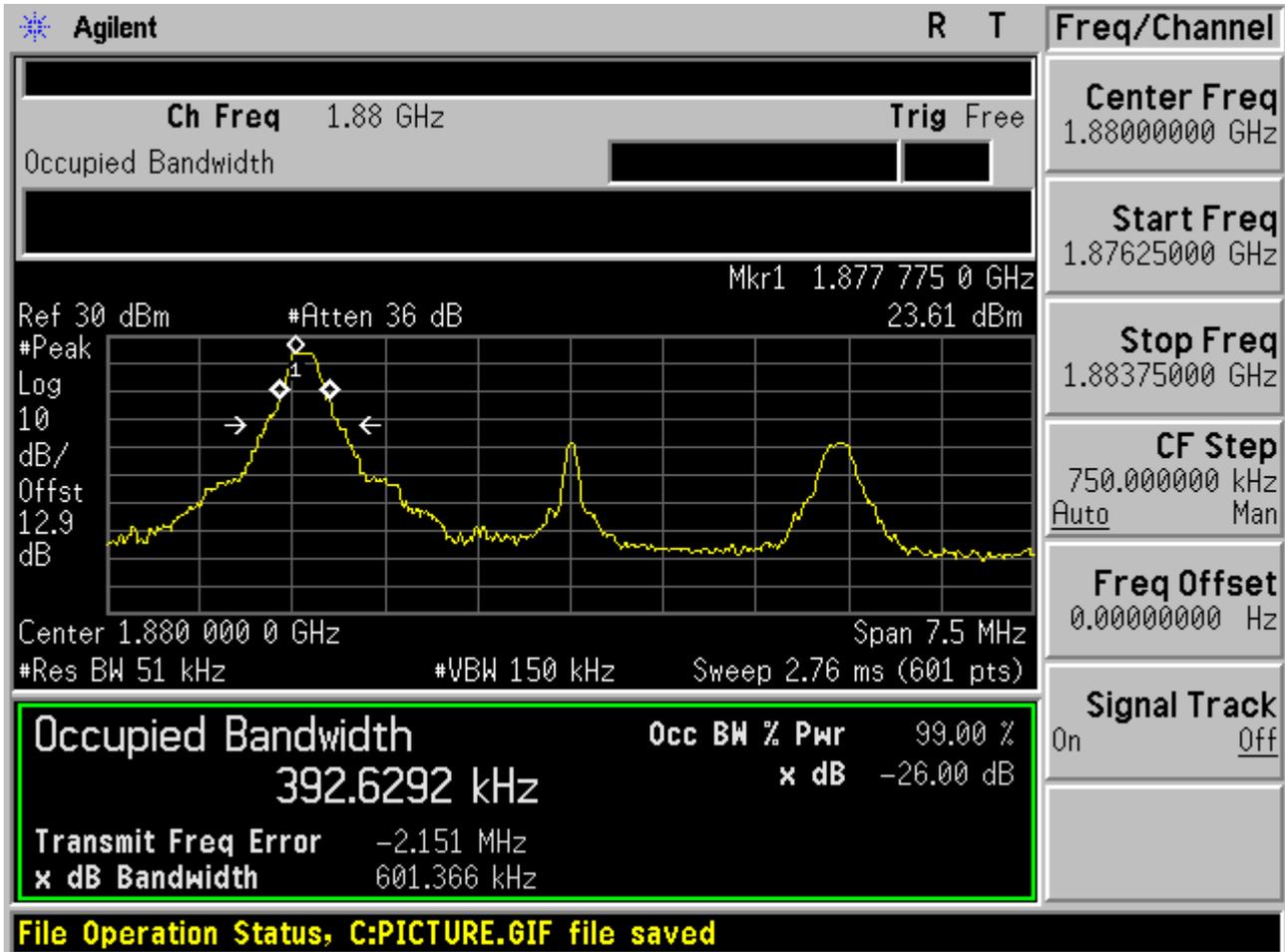
2.1.3.1.4 QPSK/full RBs





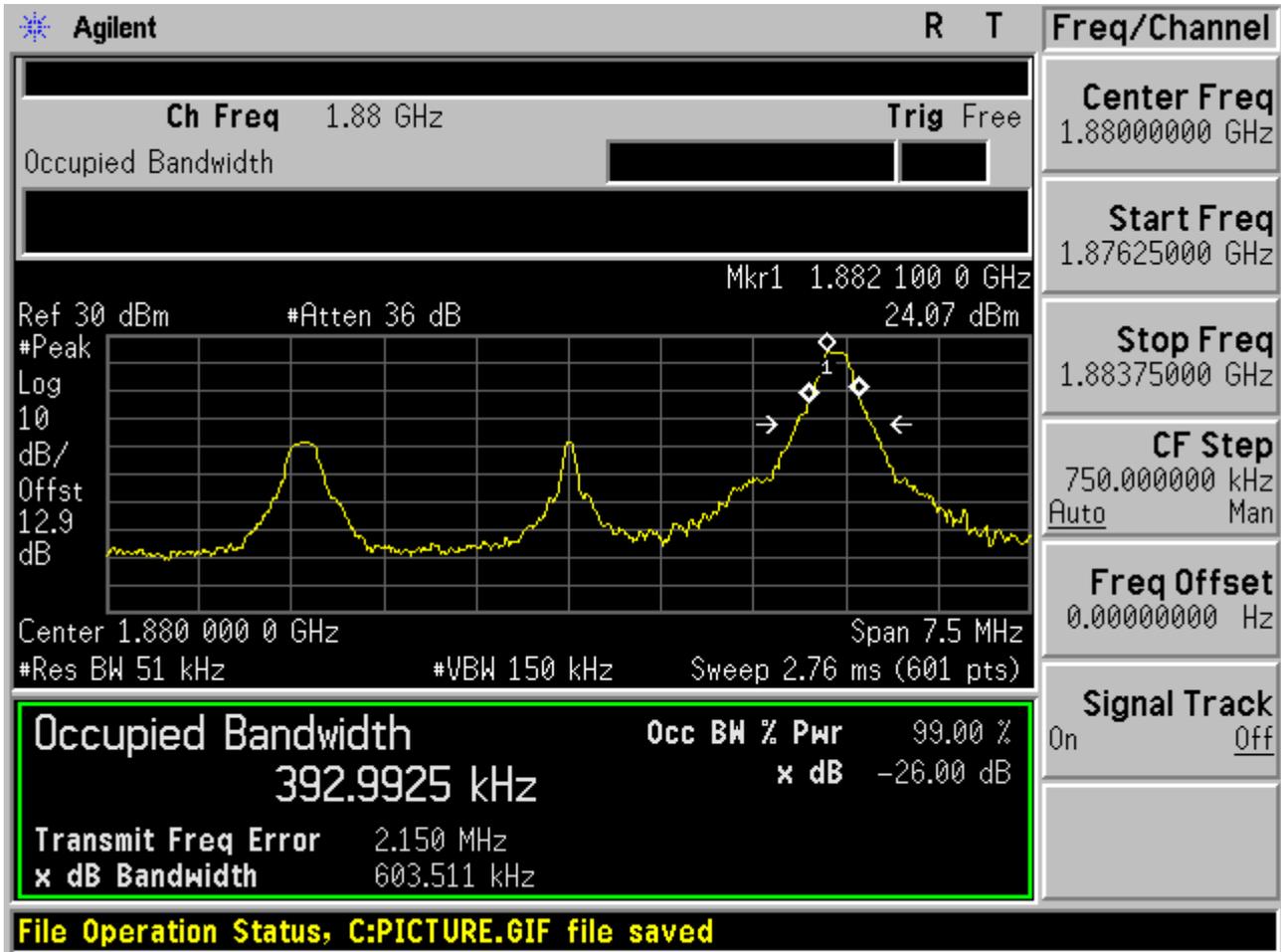
2.1.3.2 Channel =M

2.1.3.2.1 QPSK/1RB # 0



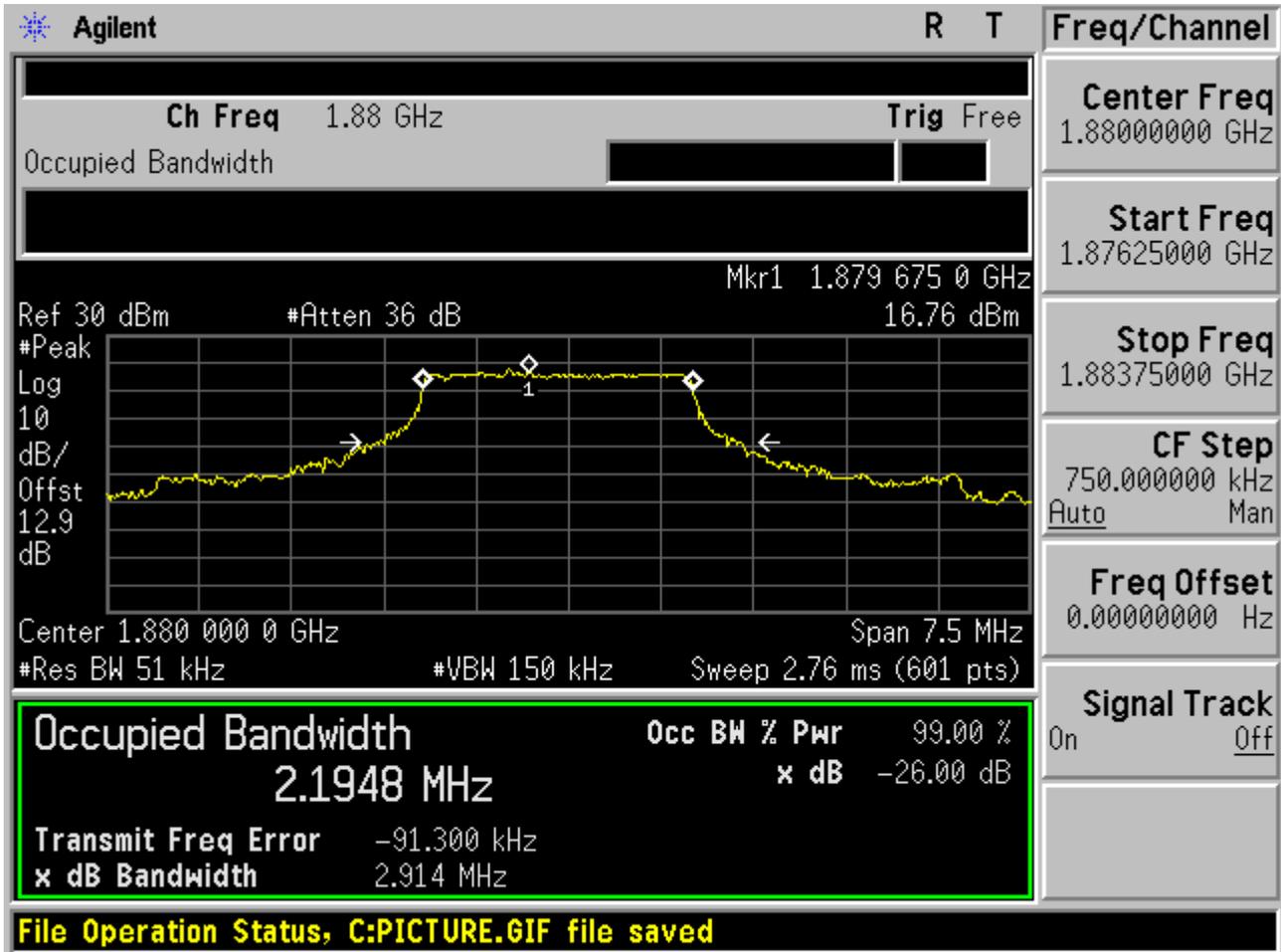


2.1.3.2.2 QPSK/1RB # max



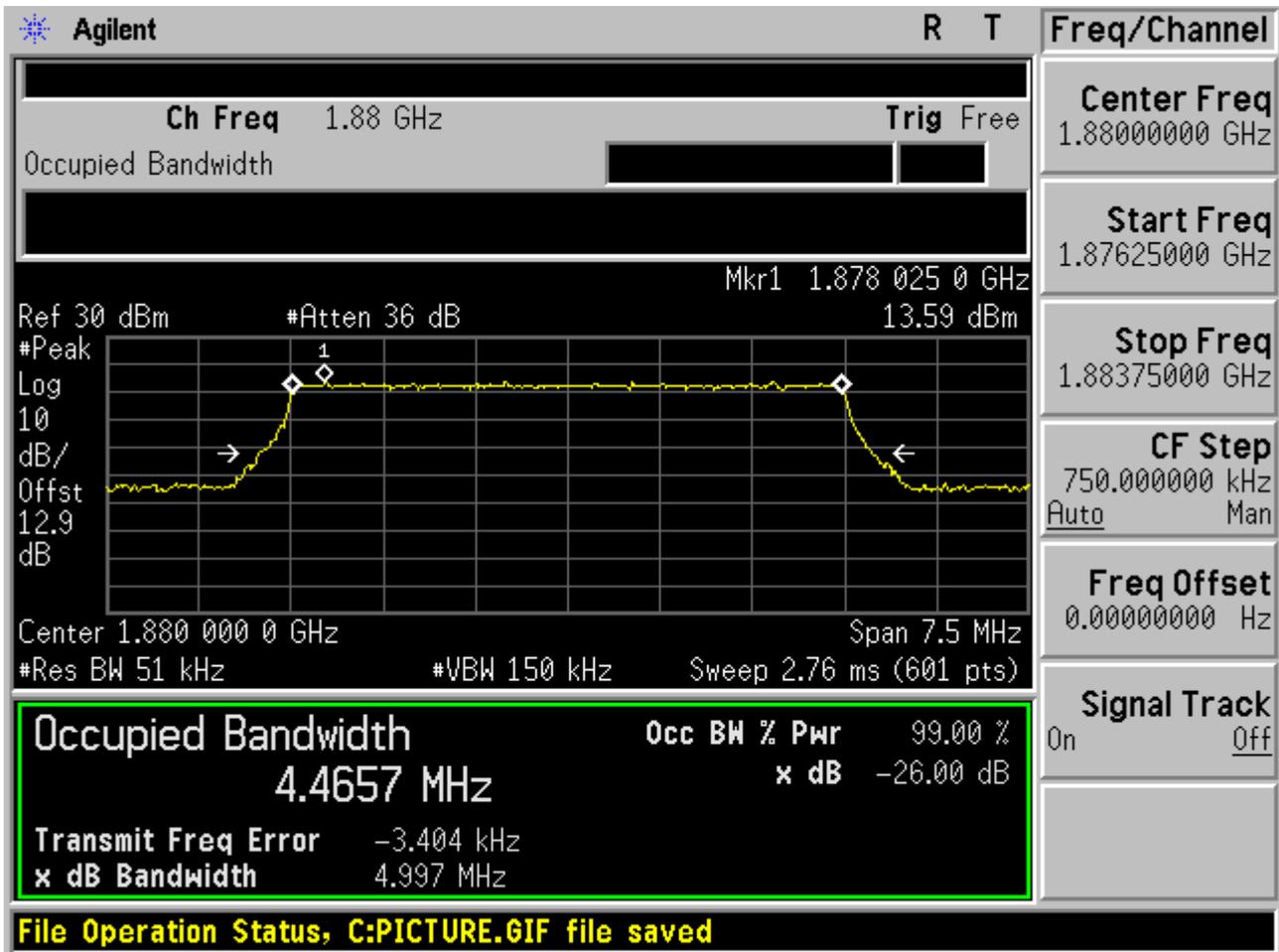


2.1.3.2.3 QPSK/non-1RB #mid/2





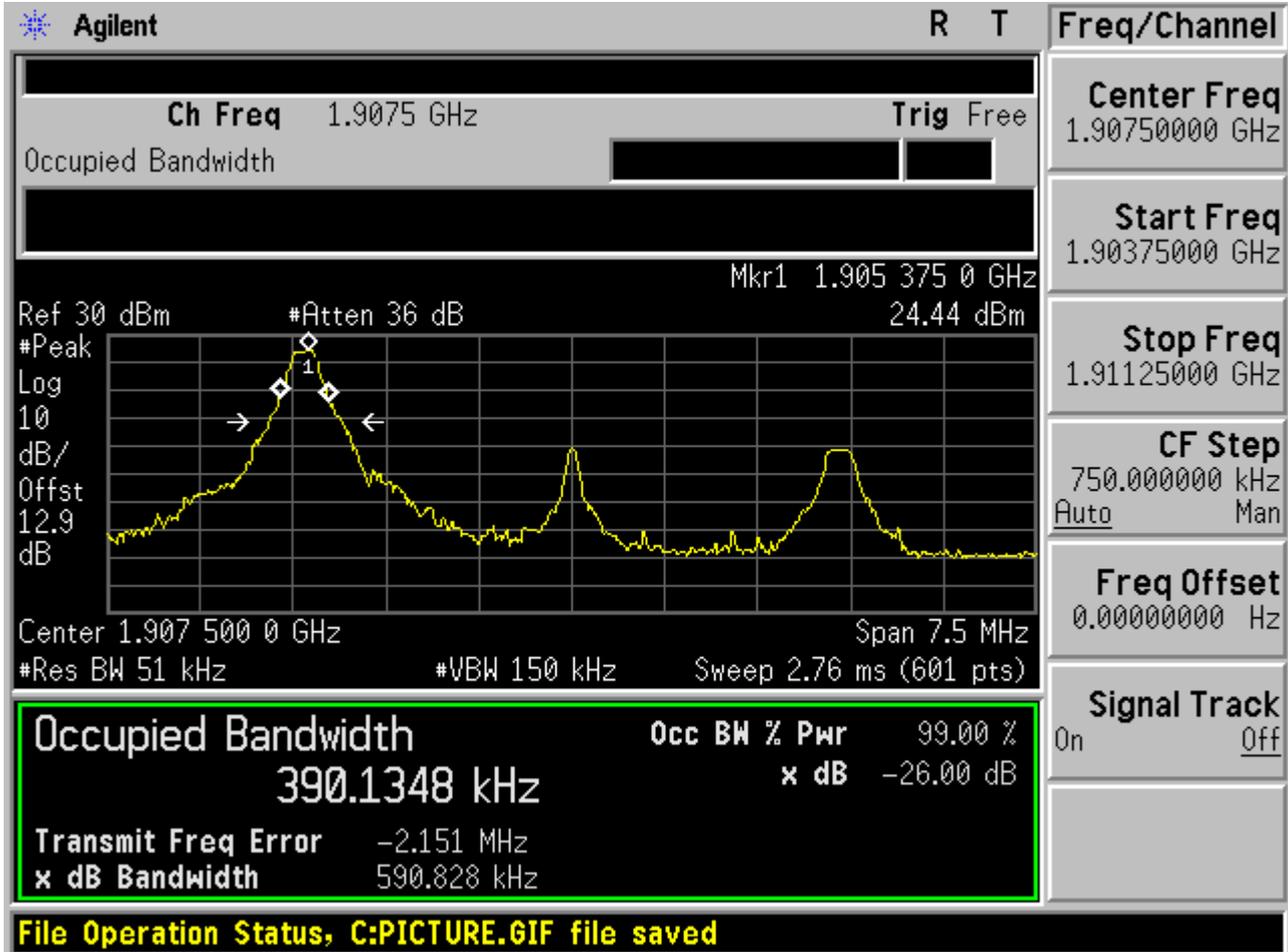
2.1.3.2.4 QPSK/full RBs





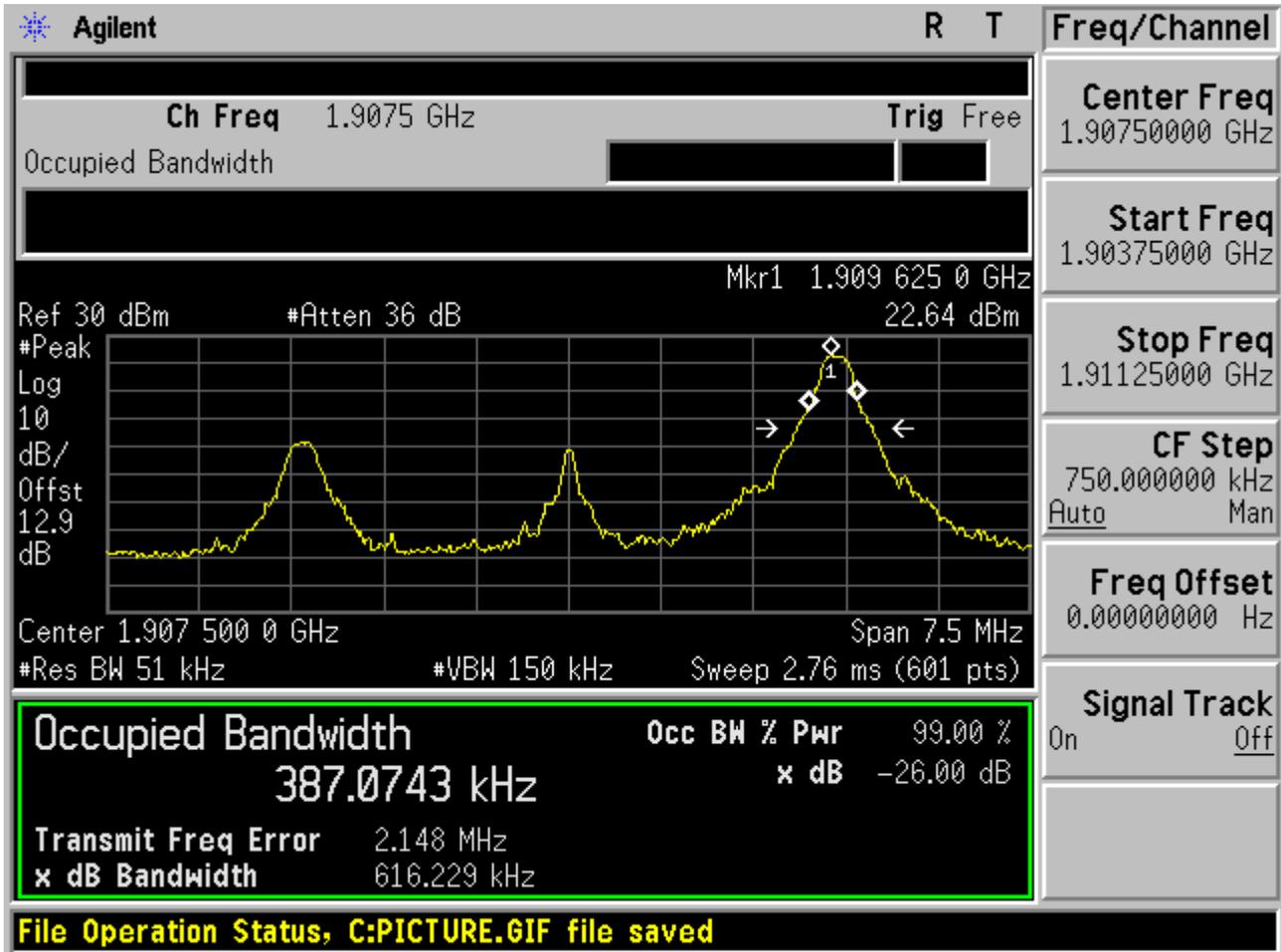
2.1.3.3 Channel = T

2.1.3.3.1 QPSK/1RB # 0



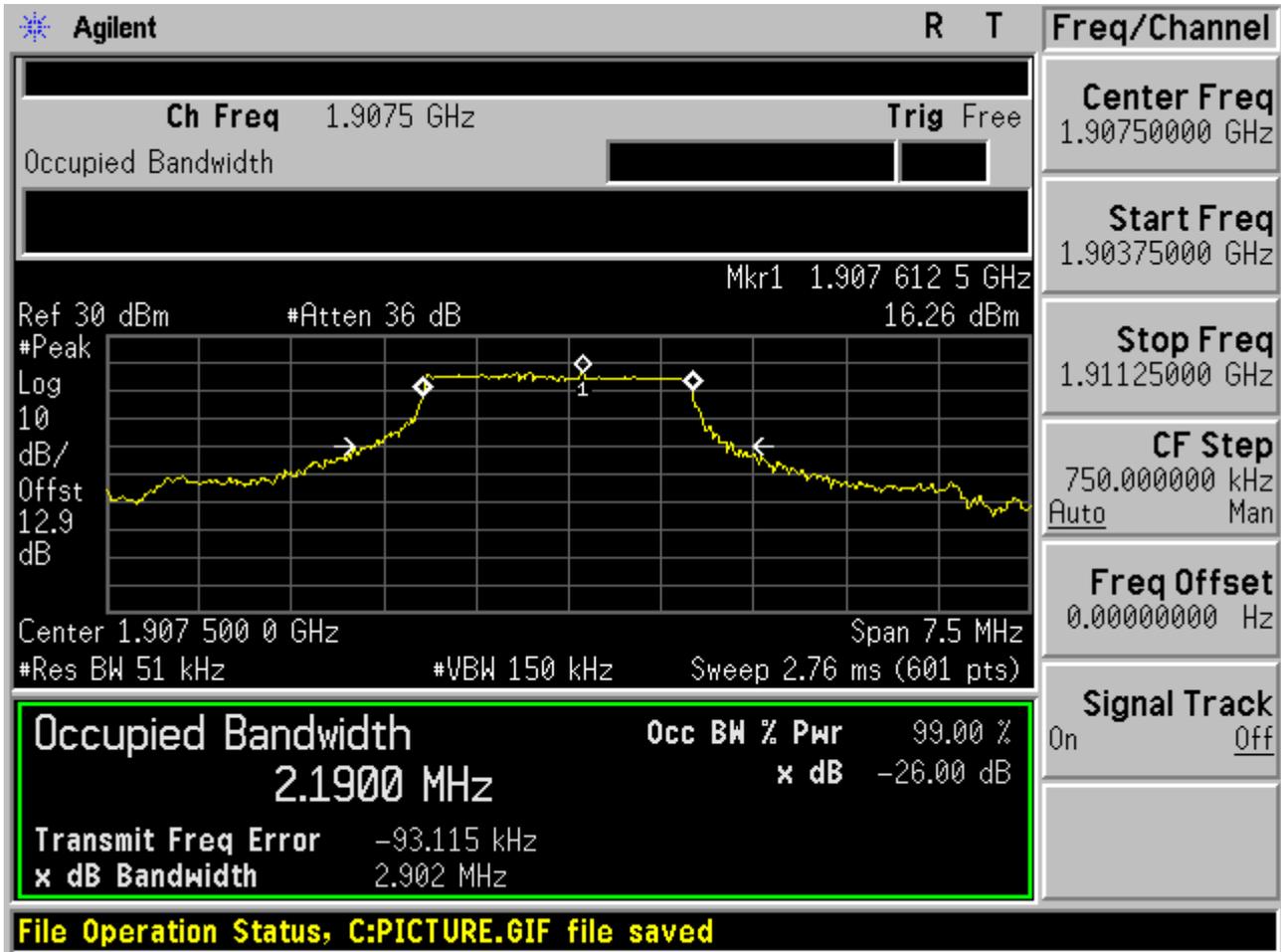


2.1.3.3.2 QPSK/1RB # max



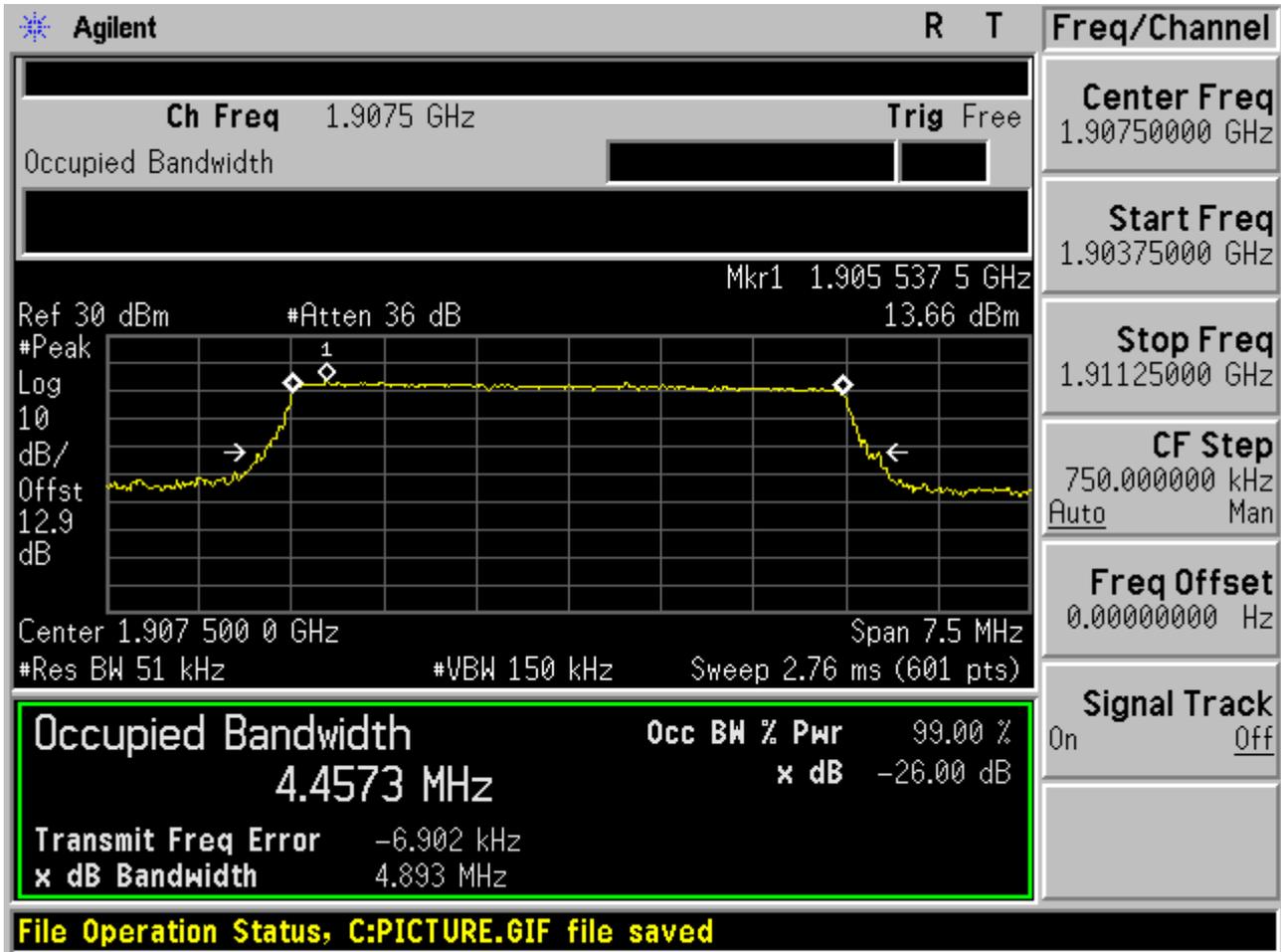


2.1.3.3.3 QPSK/non-1RB #mid/2





2.1.3.3.4 QPSK/full RBs

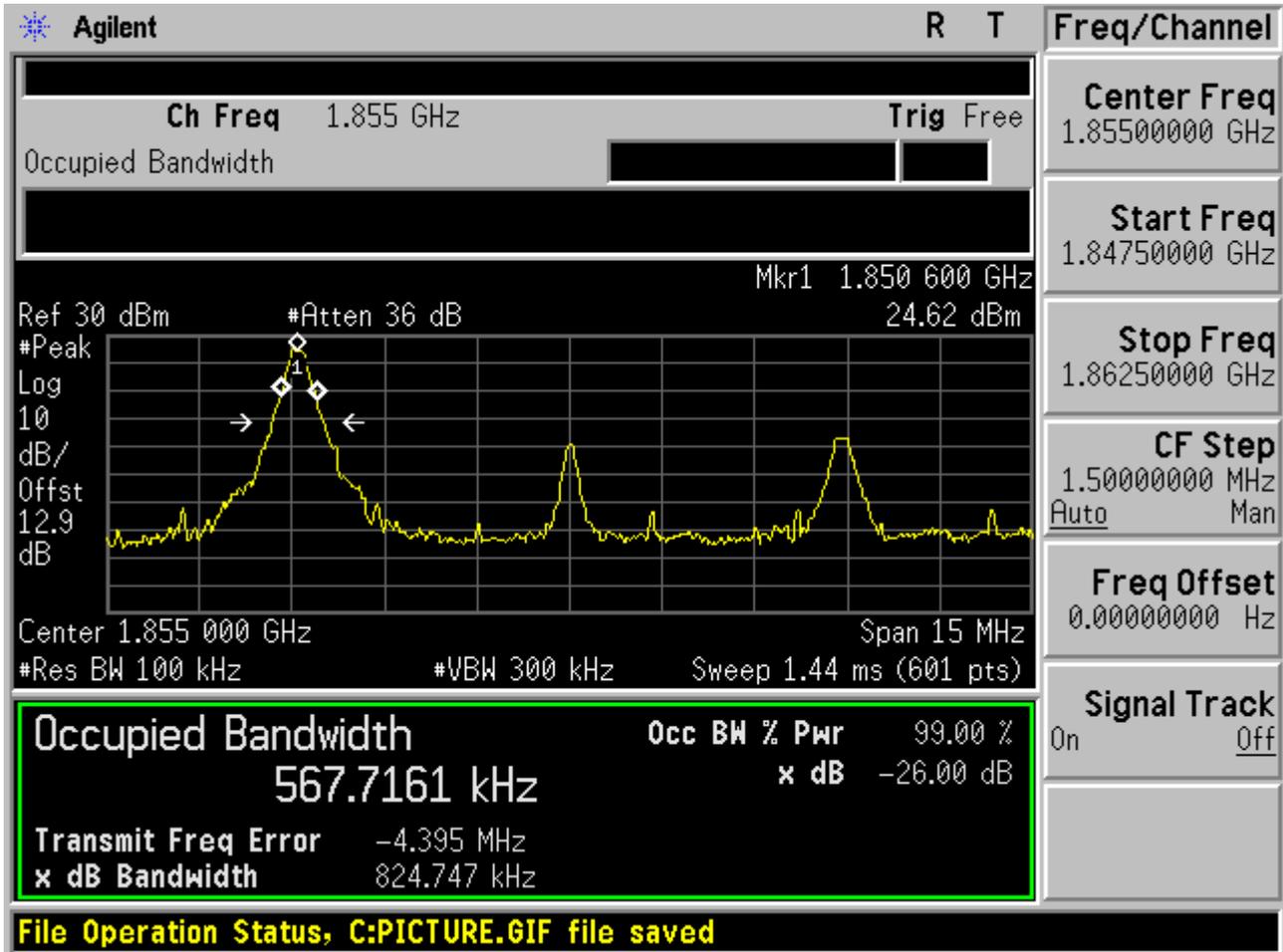




2.1.4 Channel Bandwidth = 10 MHz

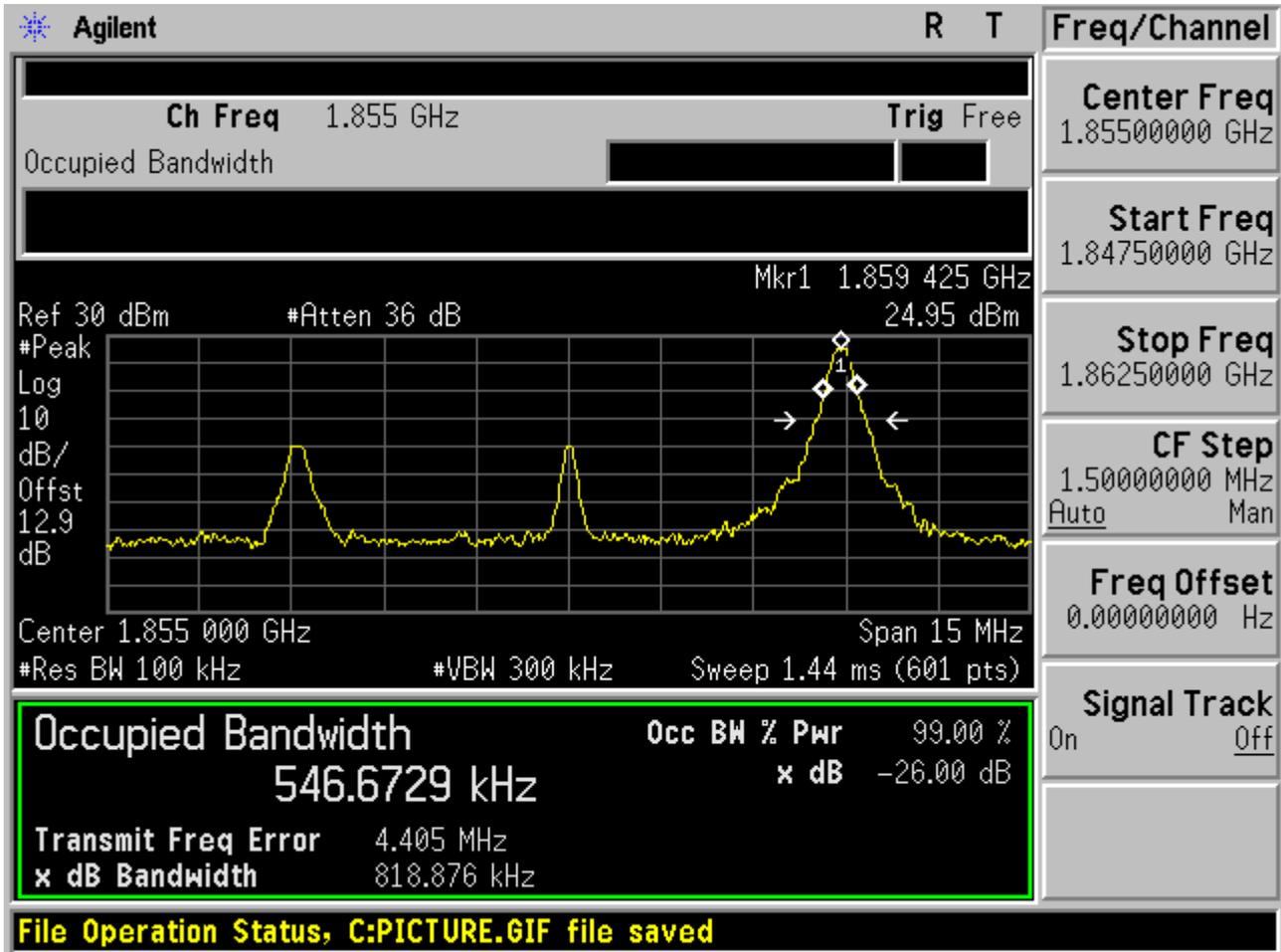
2.1.4.1 Channel = B

2.1.4.1.1 QPSK/1RB # 0



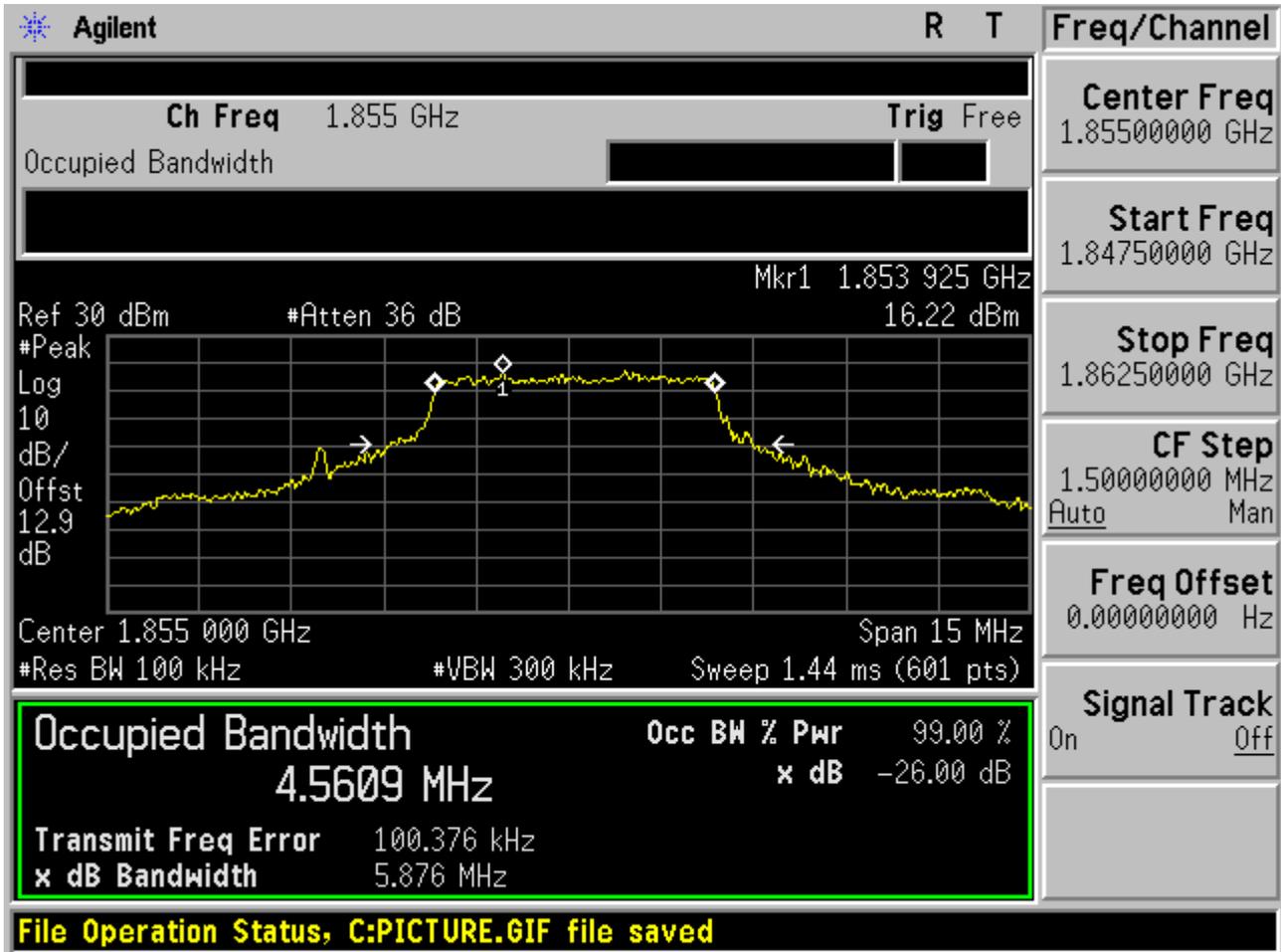


2.1.4.1.2 QPSK/1RB # max



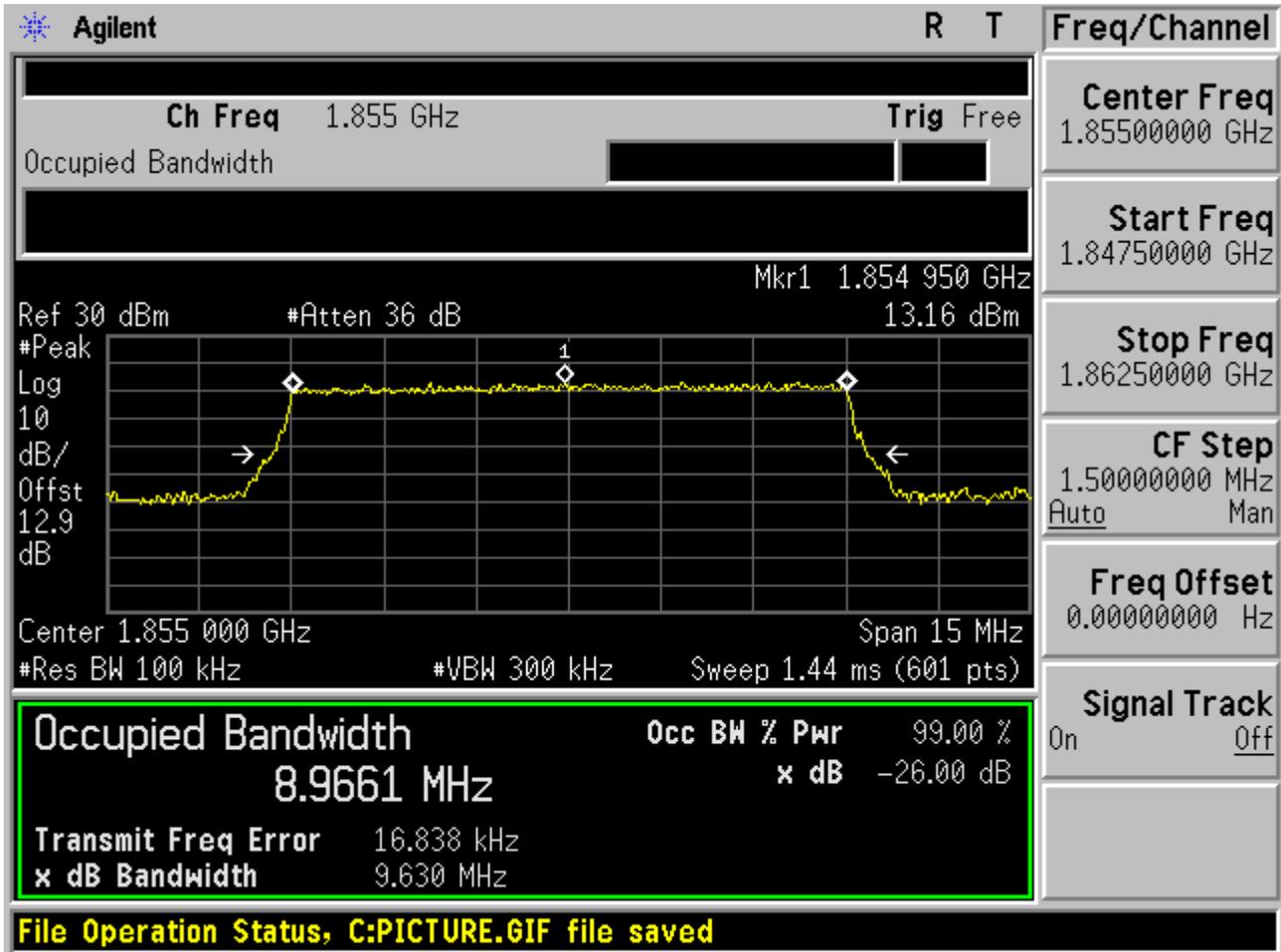


2.1.4.1.3 QPSK/non-1RB #mid/2





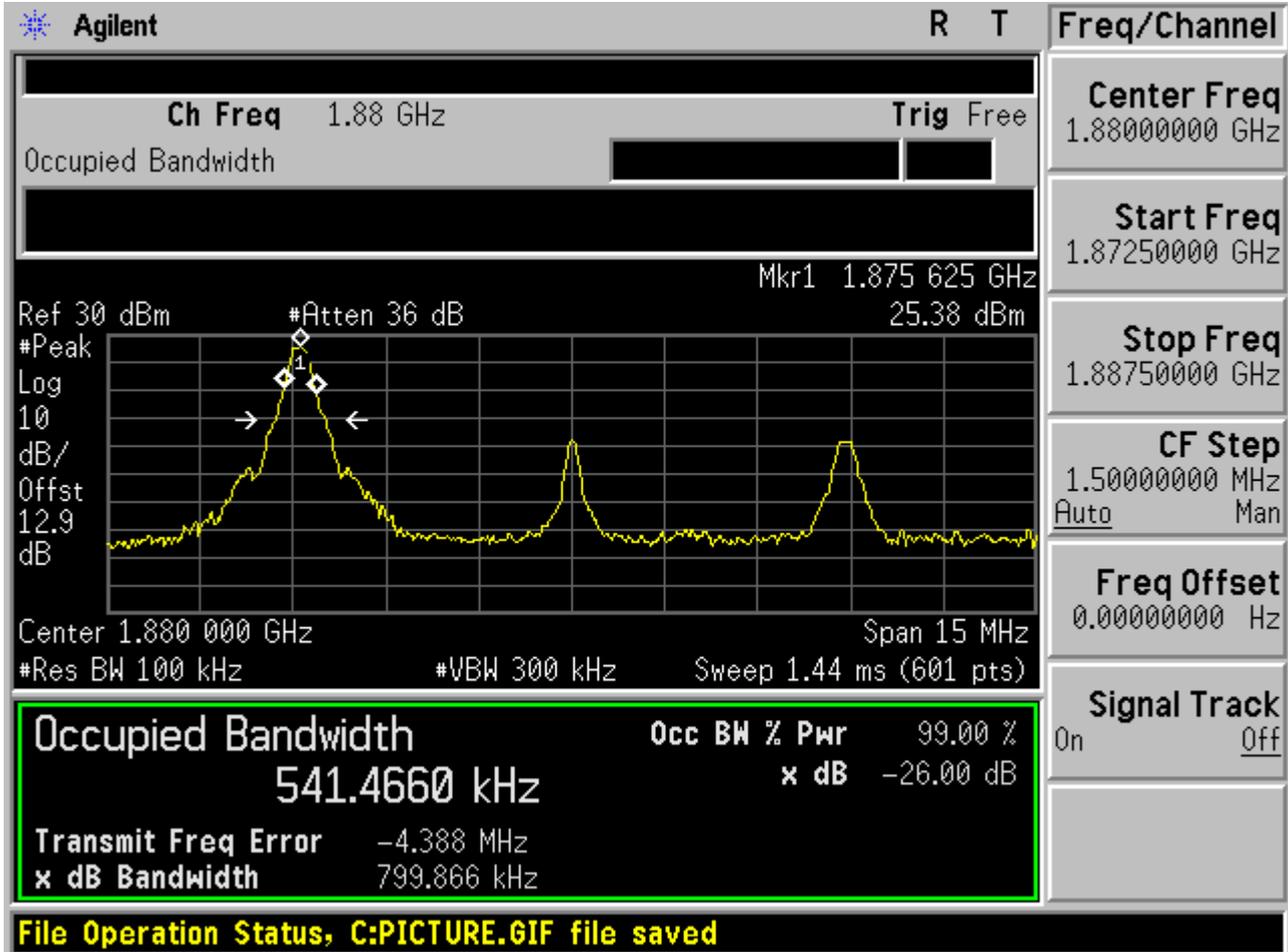
2.1.4.1.4 QPSK/full RBs





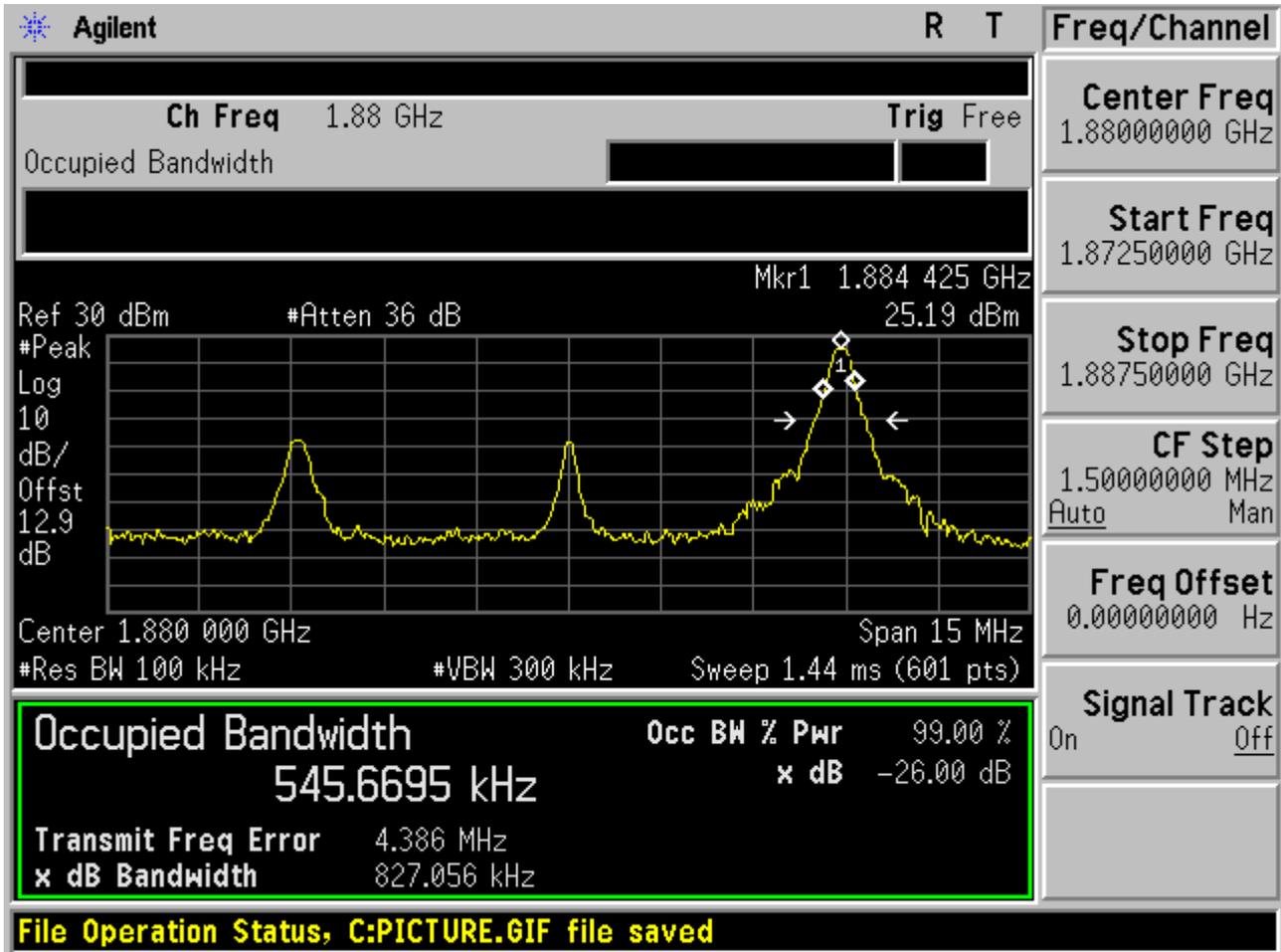
2.1.4.2 Channel =M

2.1.4.2.1 QPSK/1RB # 0



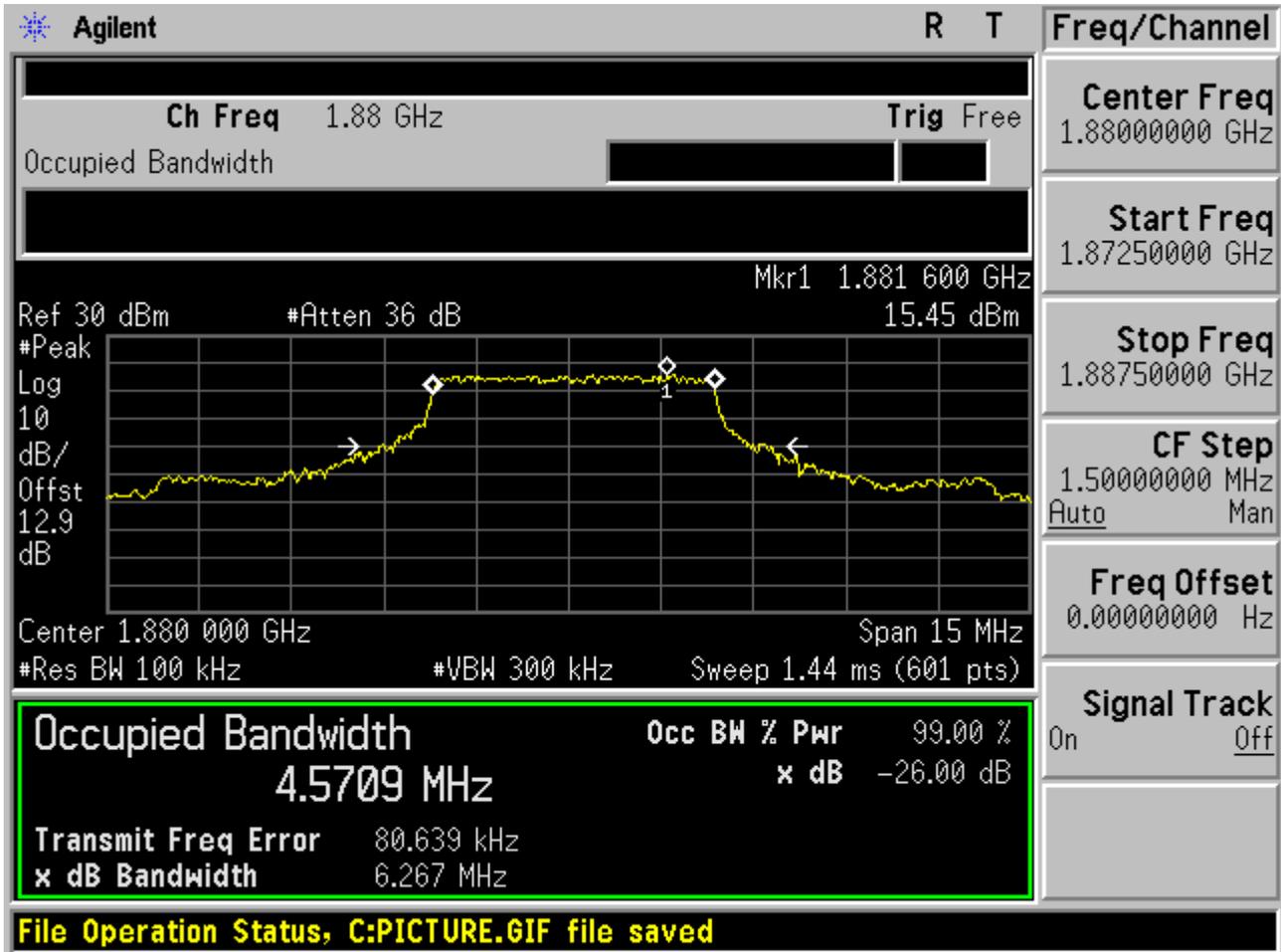


2.1.4.2.2 QPSK/1RB # max



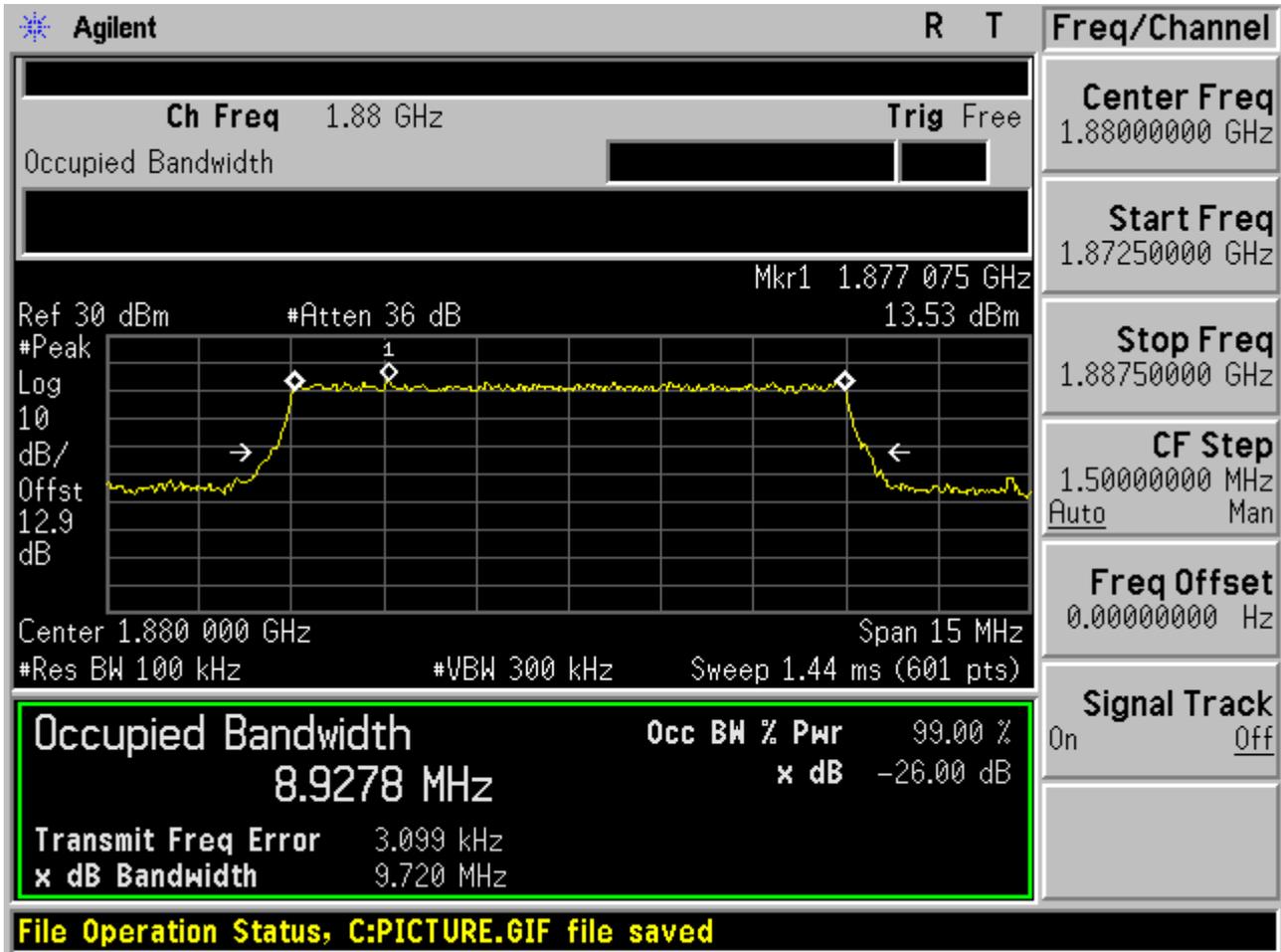


2.1.4.2.3 QPSK/non-1RB #mid/2





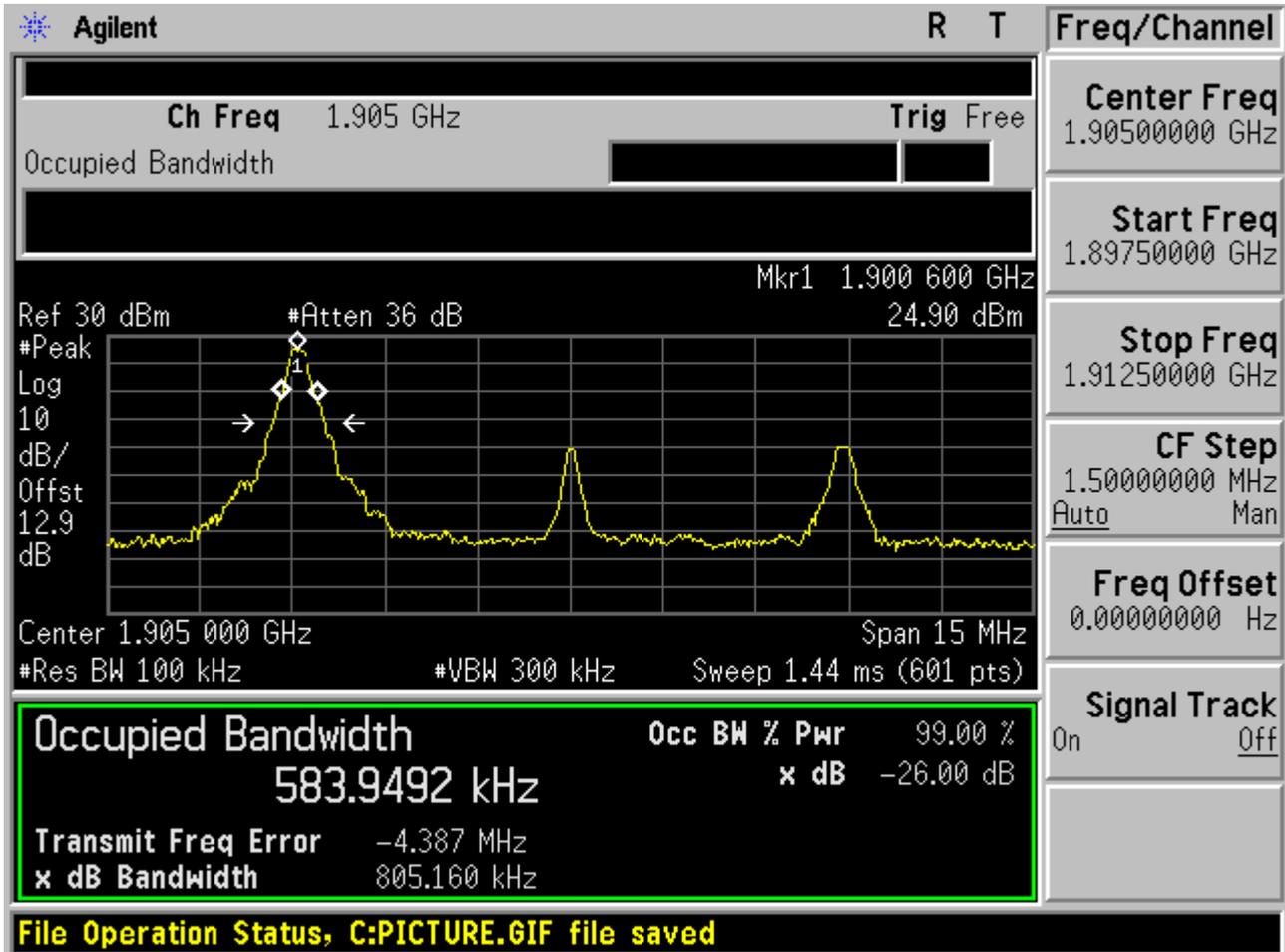
2.1.4.2.4 QPSK/full RBs





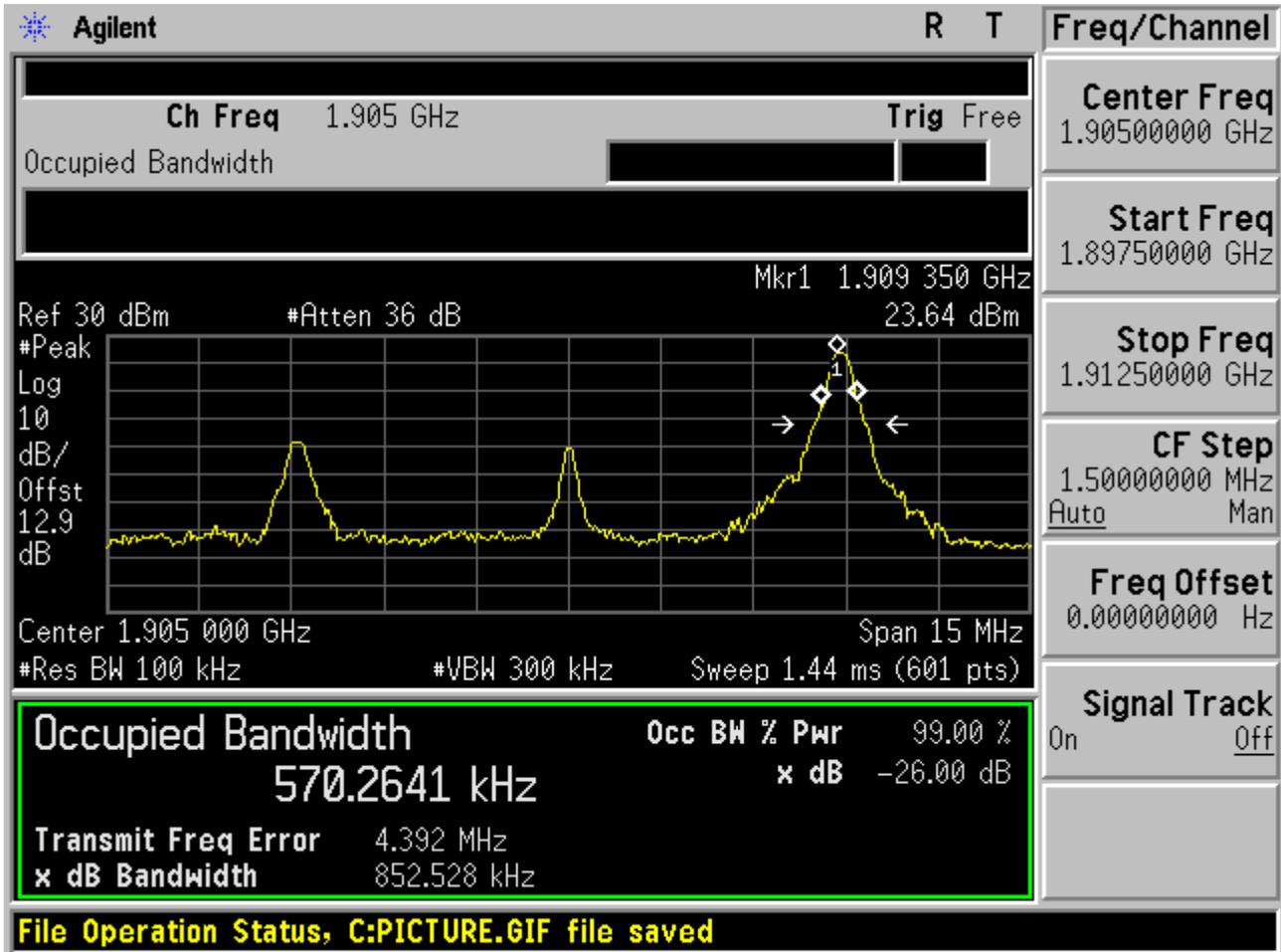
2.1.4.3 Channel = T

2.1.4.3.1 QPSK/1RB # 0



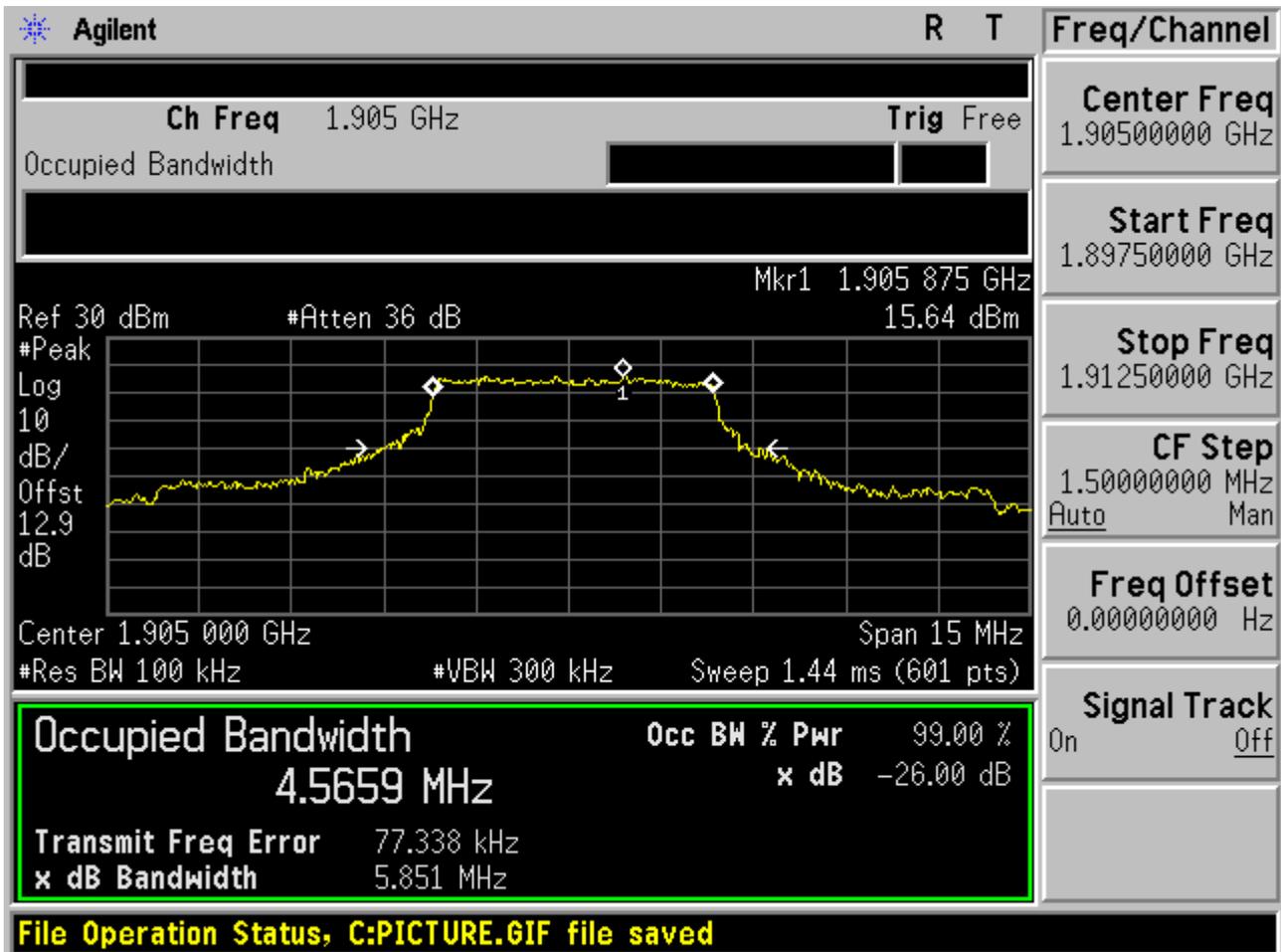


2.1.4.3.2 QPSK/1RB # max



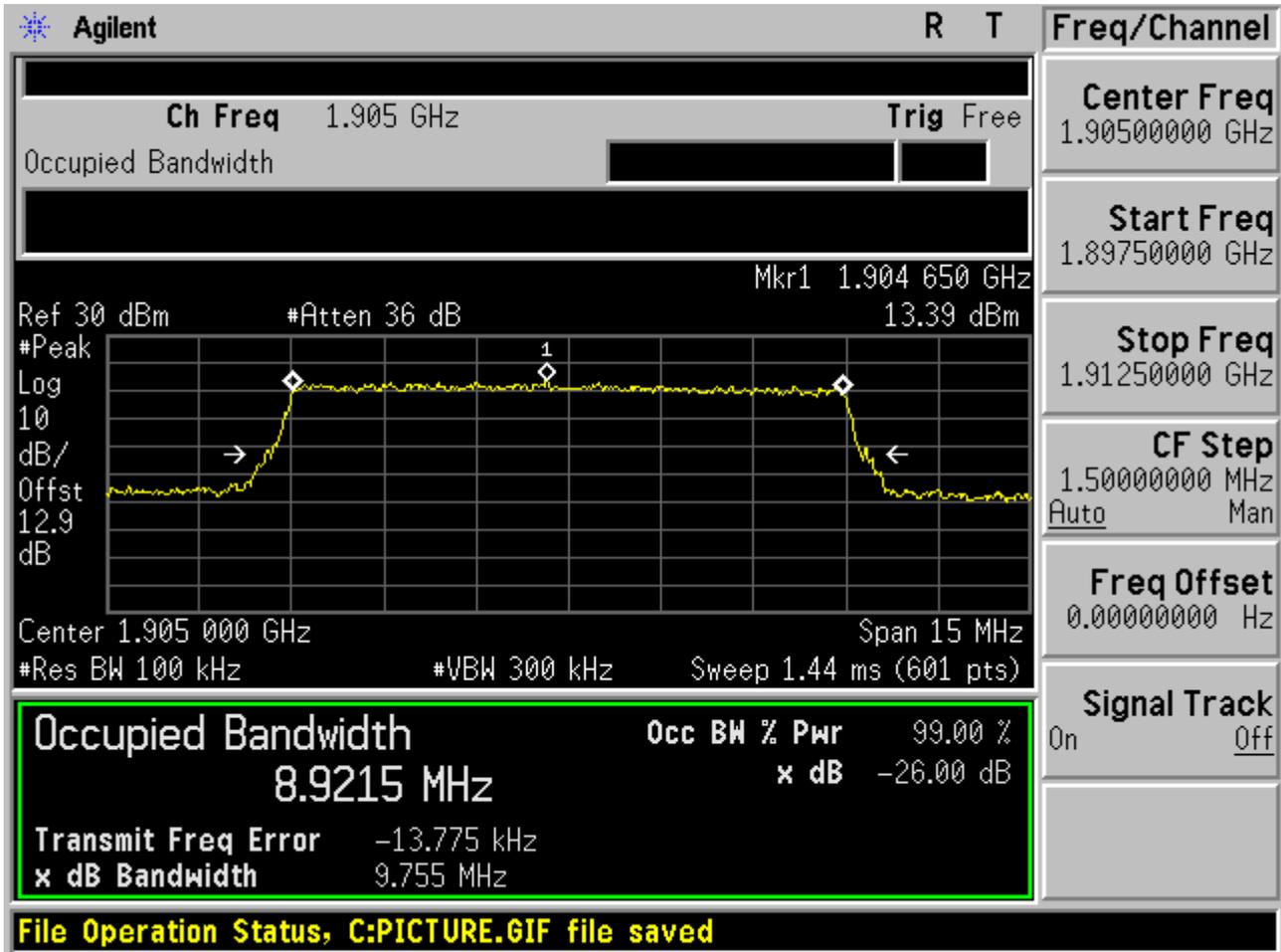


2.1.4.3.3 QPSK/non-1RB #mid/2





2.1.4.3.4 QPSK/full RBs

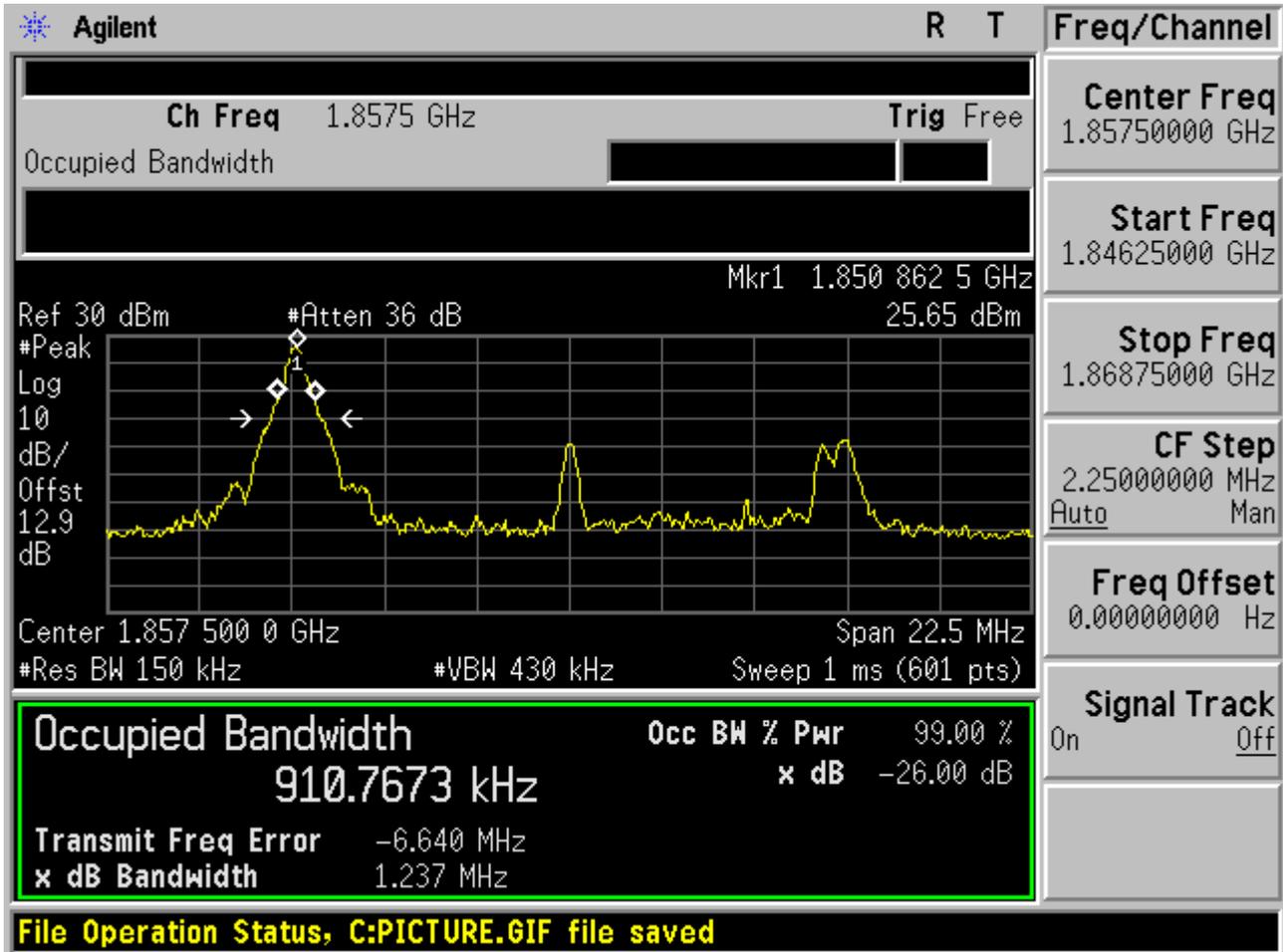




2.1.5 Channel Bandwidth = 15 MHz

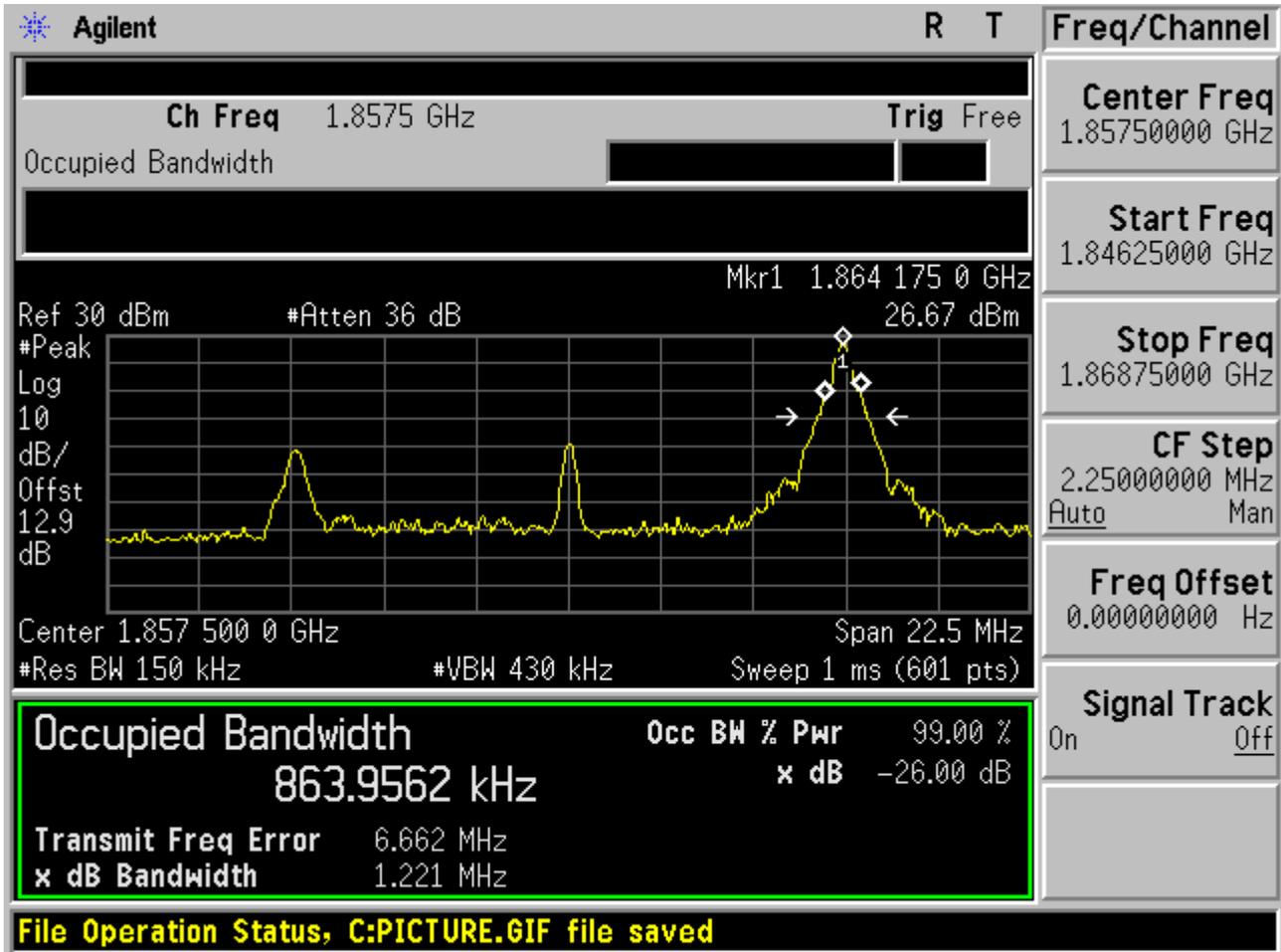
2.1.5.1 Channel = B

2.1.5.1.1 QPSK/1RB # 0



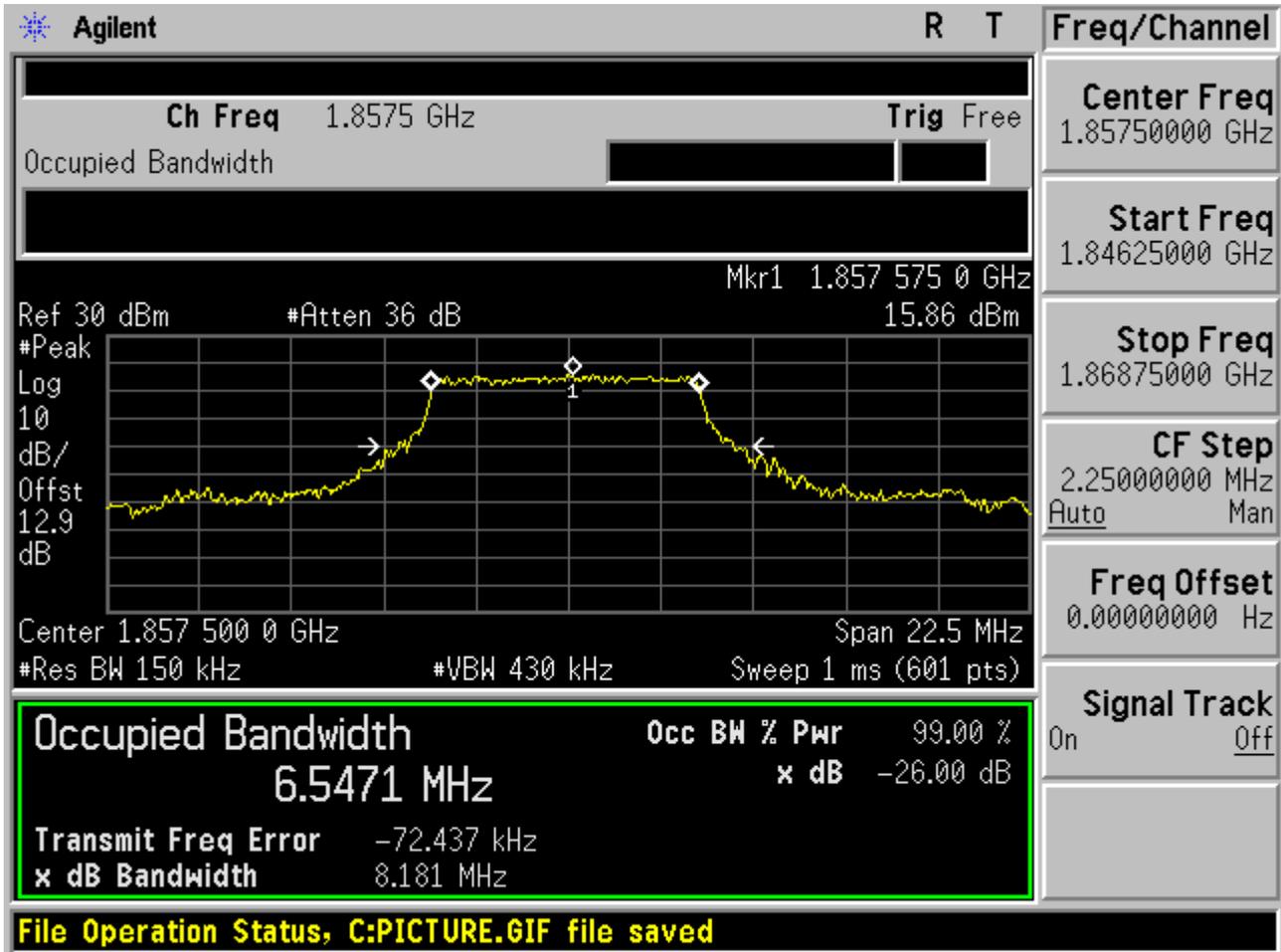


2.1.5.1.2 QPSK/1RB # max



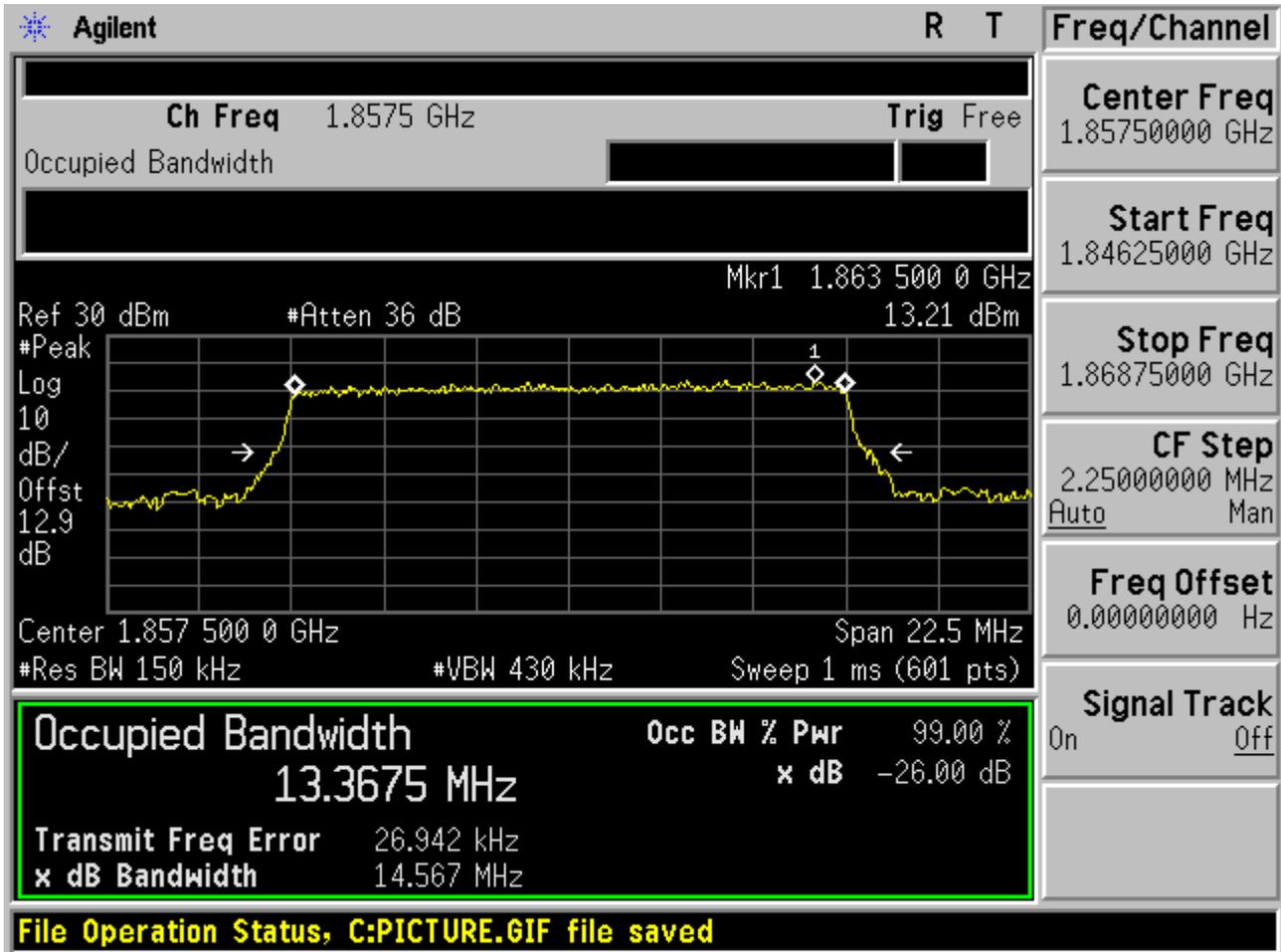


2.1.5.1.3 QPSK/non-1RB #mid/2





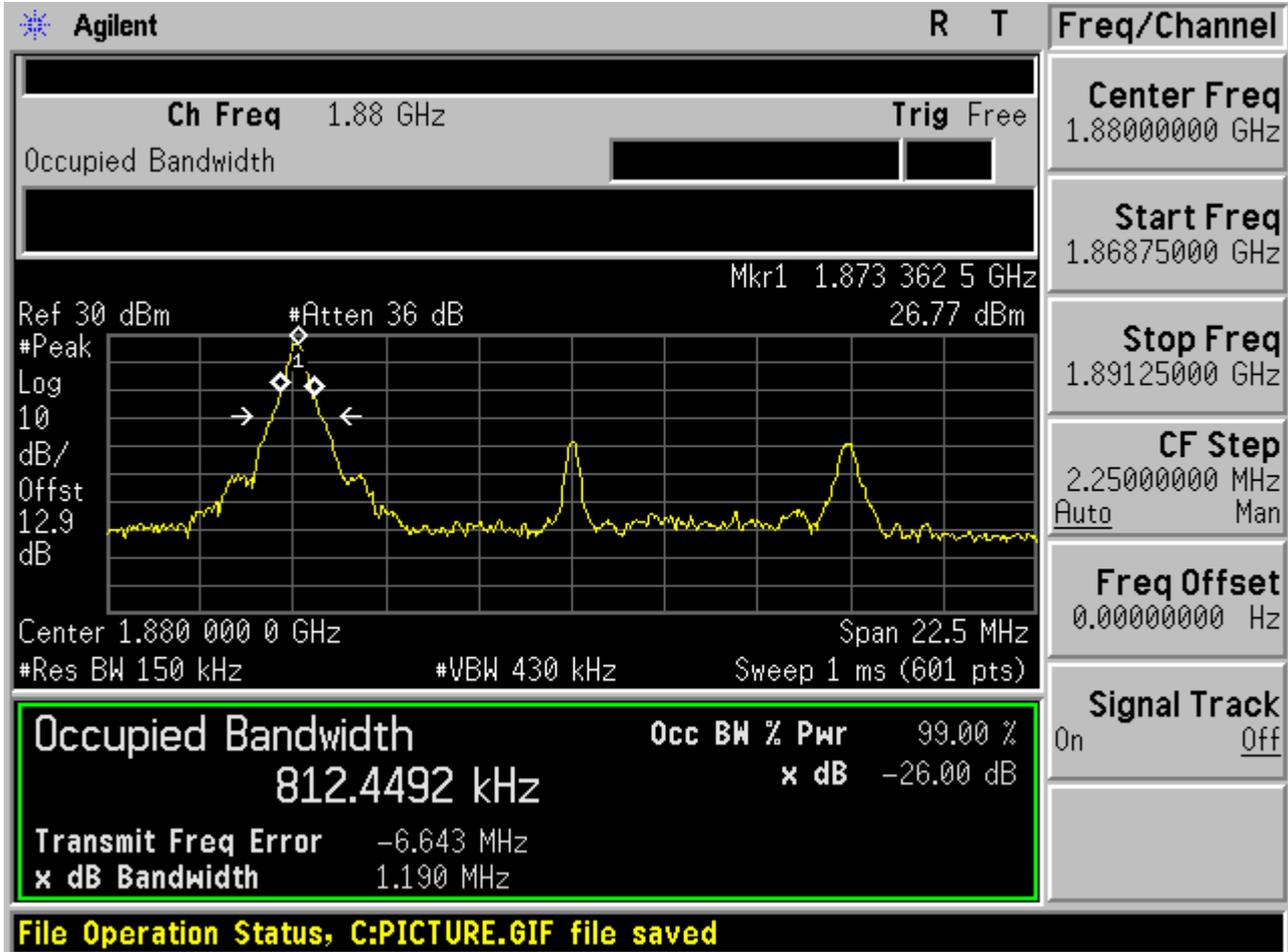
2.1.5.1.4 QPSK/full RBs





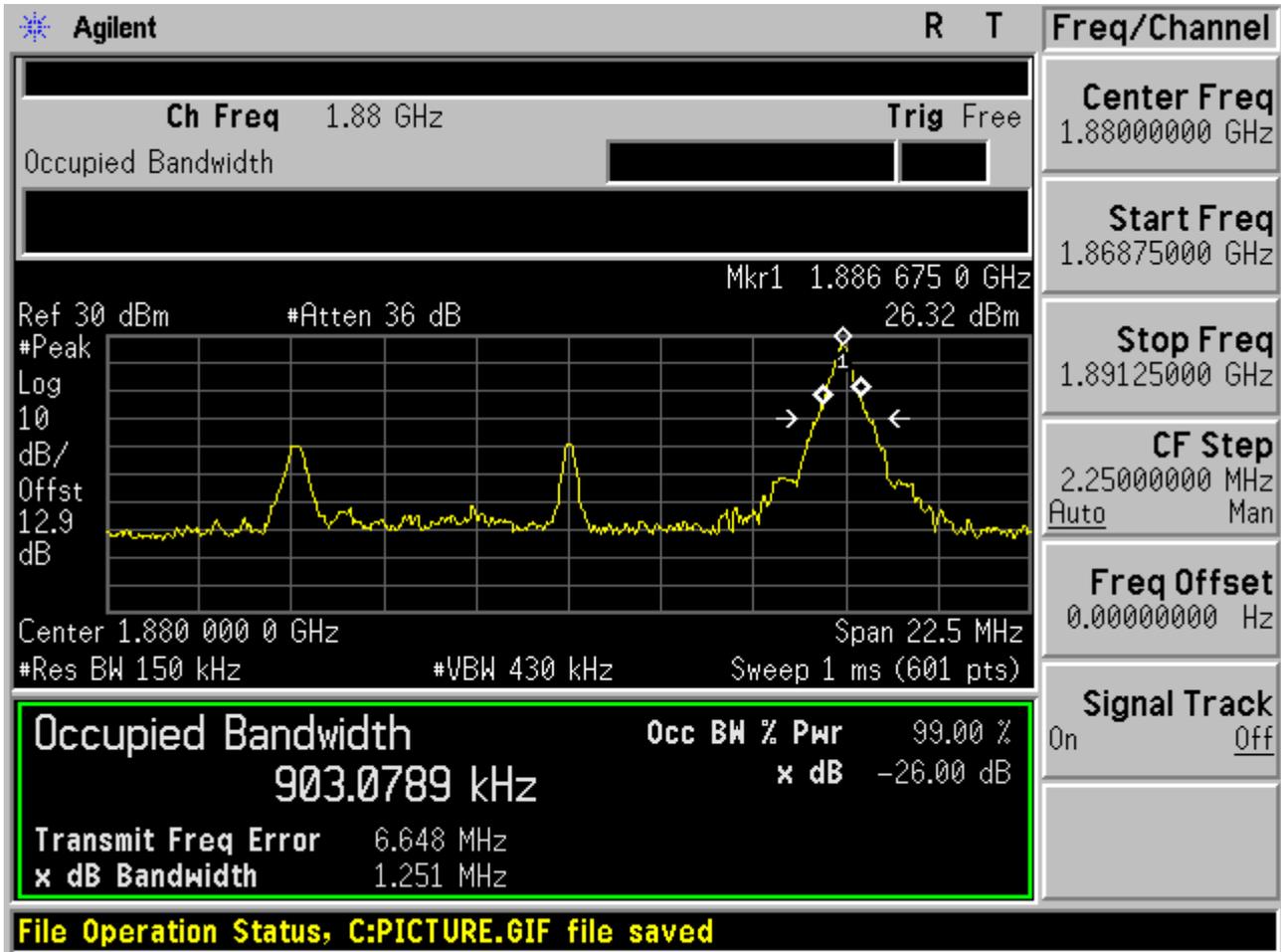
2.1.5.2 Channel =M

2.1.5.2.1 QPSK/1RB # 0



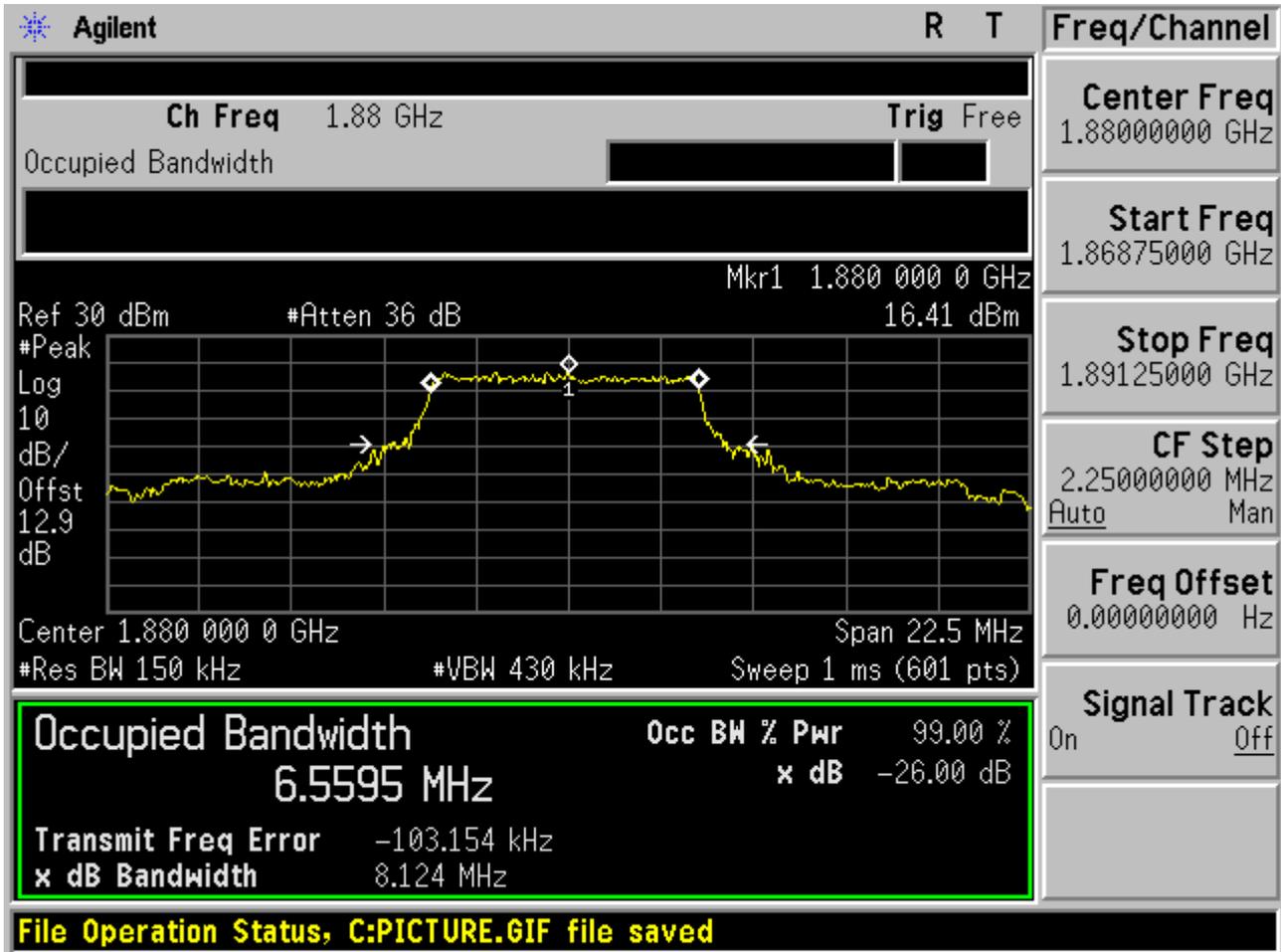


2.1.5.2.2 QPSK/1RB # max



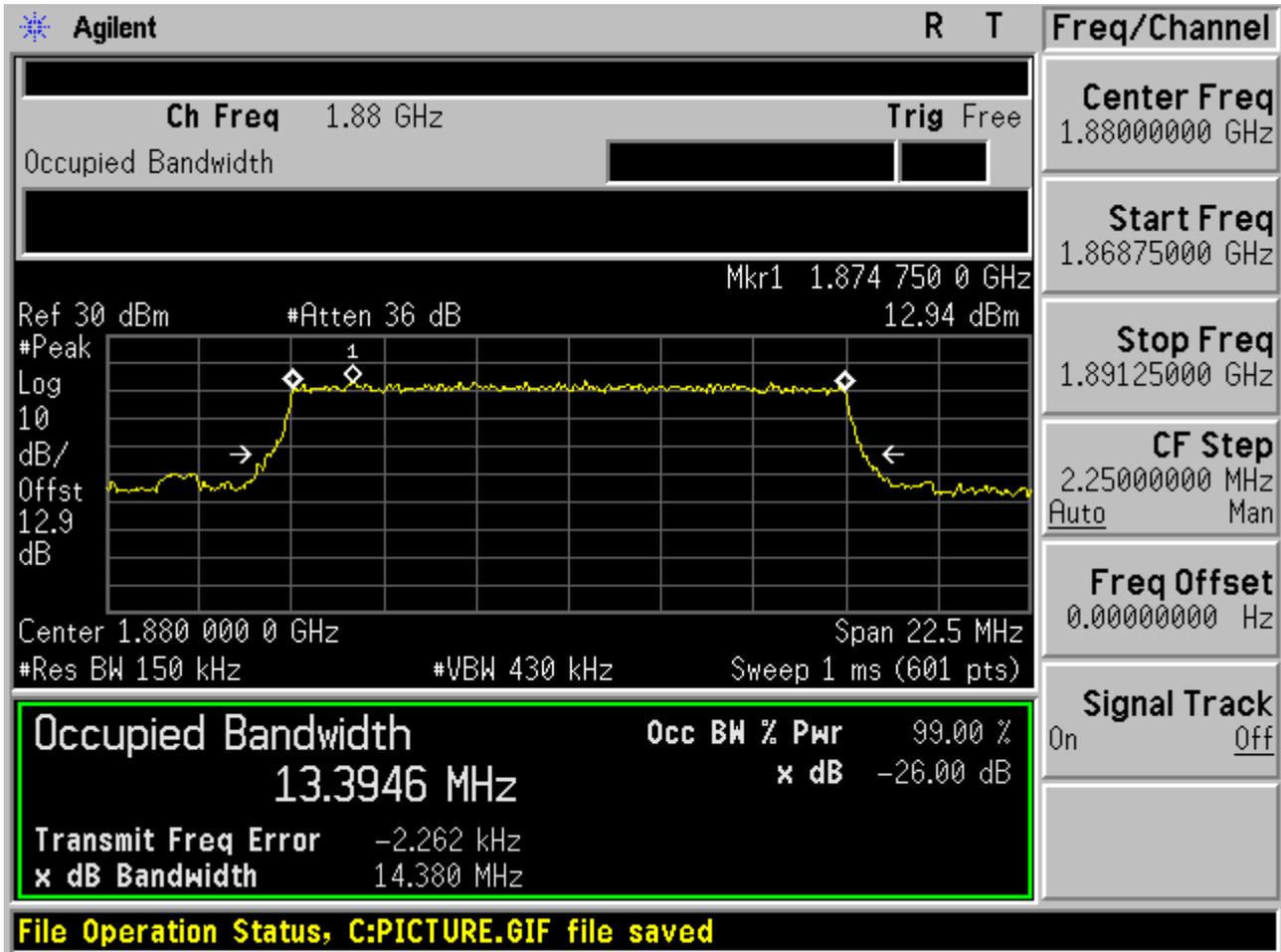


2.1.5.2.3 QPSK/non-1RB #mid/2





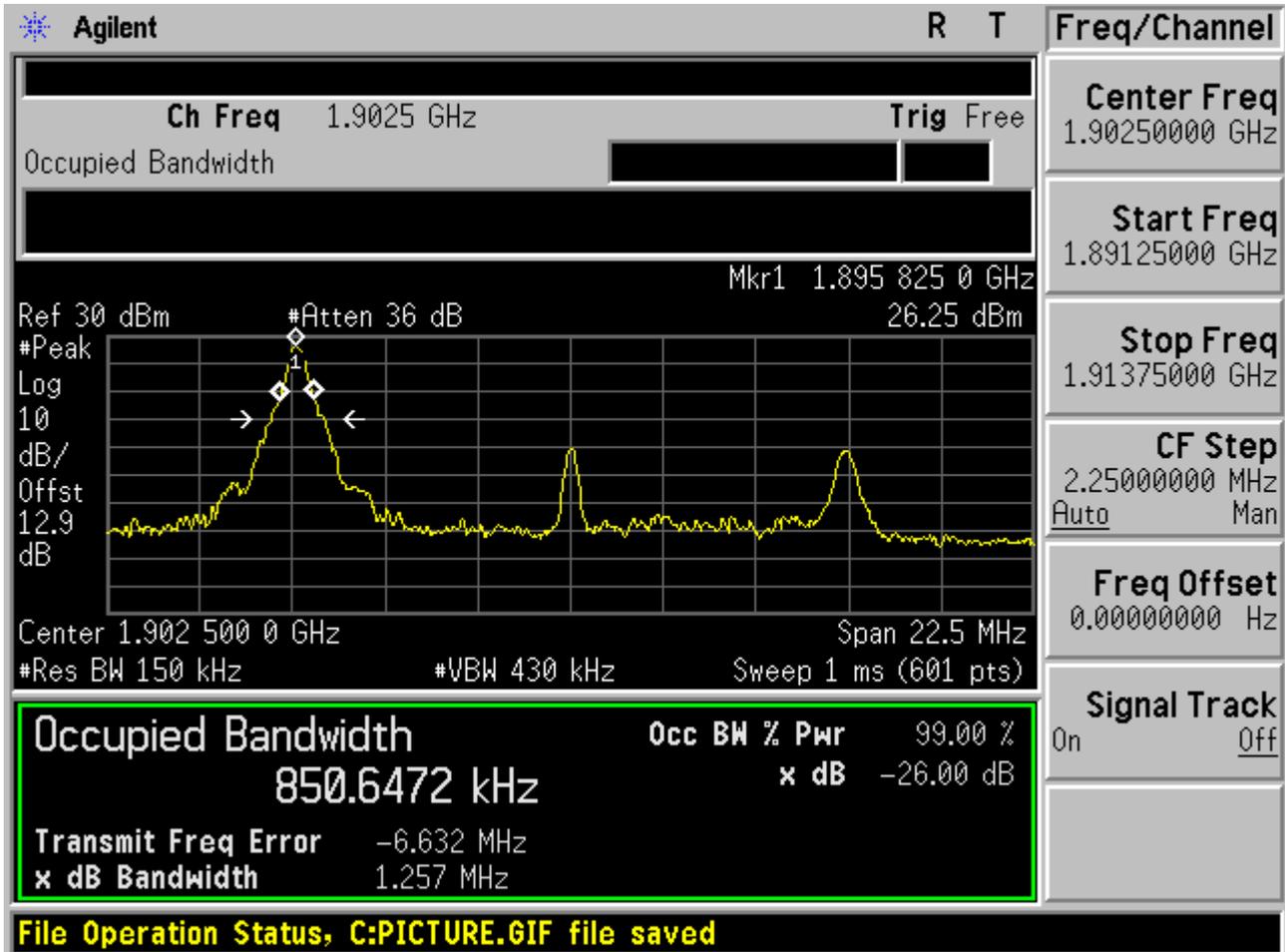
2.1.5.2.4 QPSK/full RBs





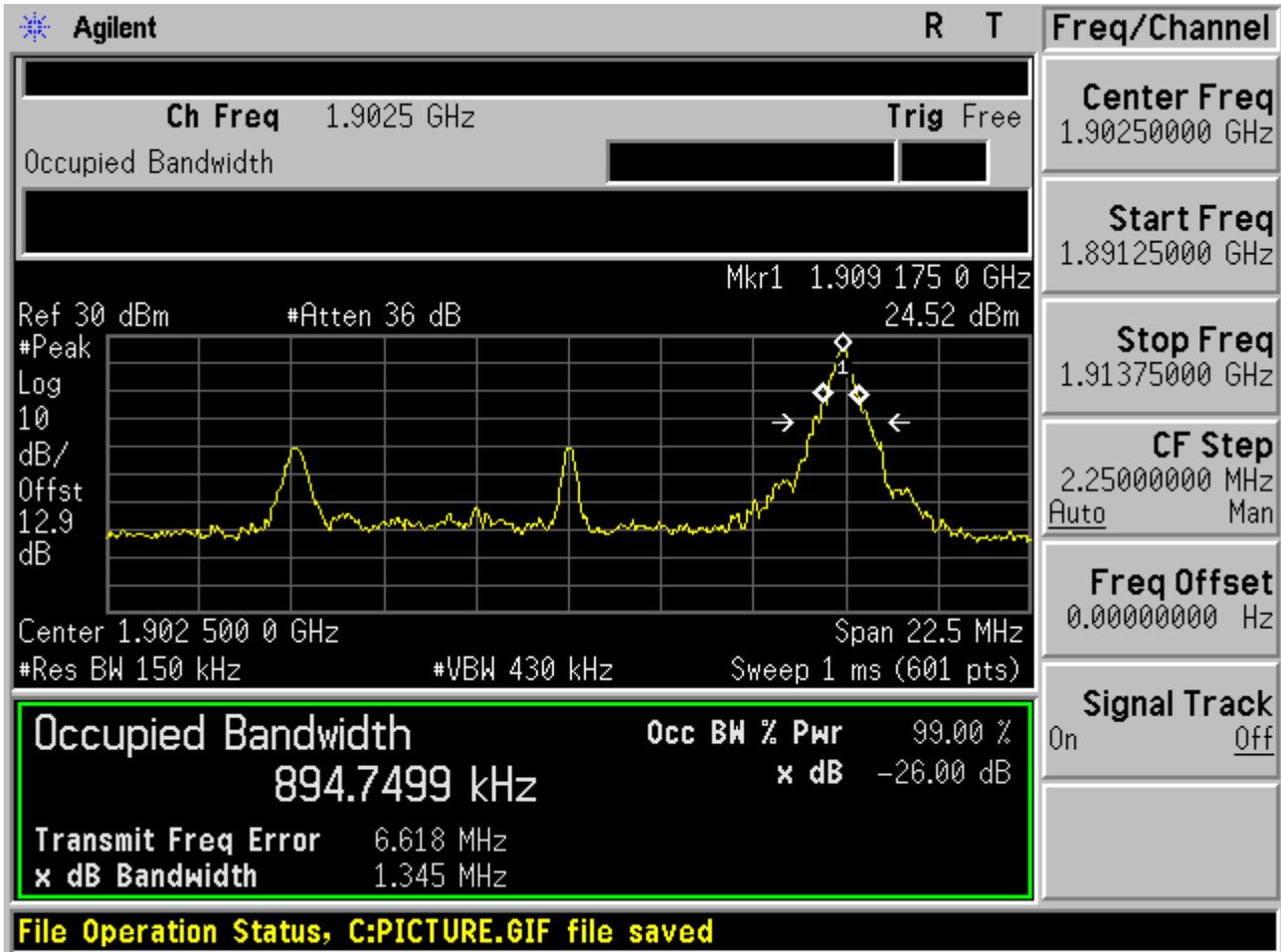
2.1.5.3 Channel = T

2.1.5.3.1 QPSK/1RB # 0



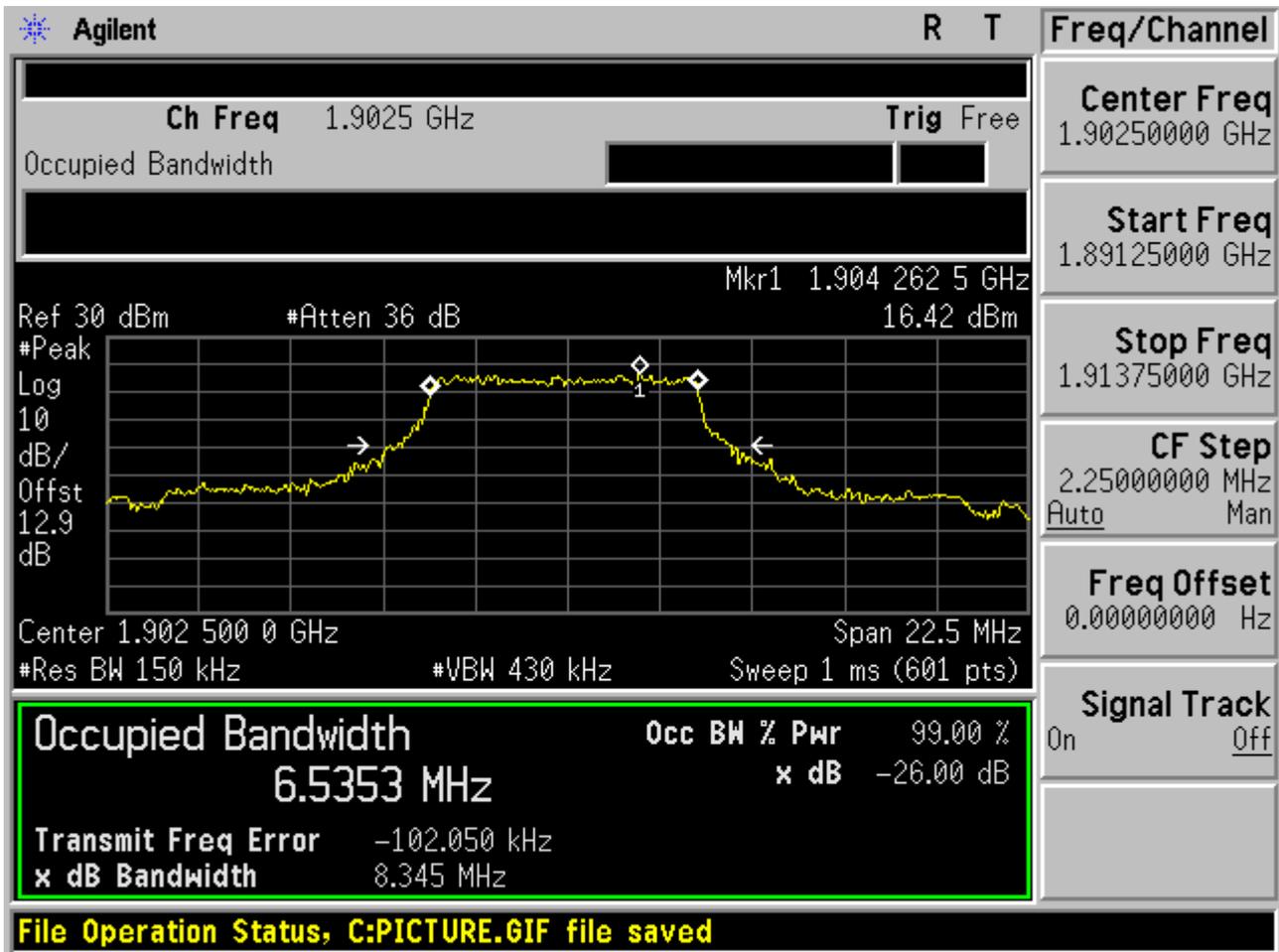


2.1.5.3.2 QPSK/1RB # max



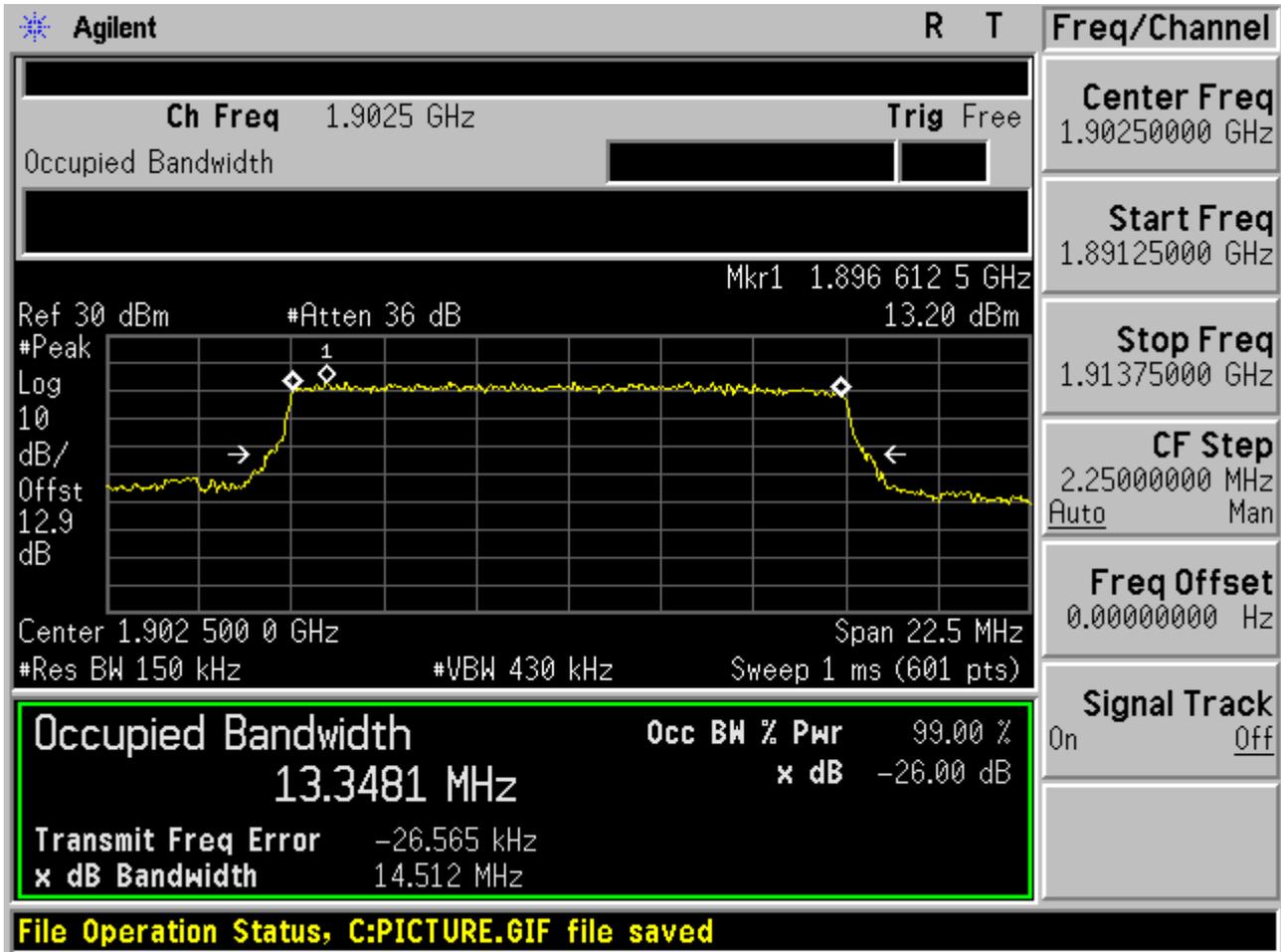


2.1.5.3.3 QPSK/non-1RB #mid/2





2.1.5.3.4 QPSK/full RBs

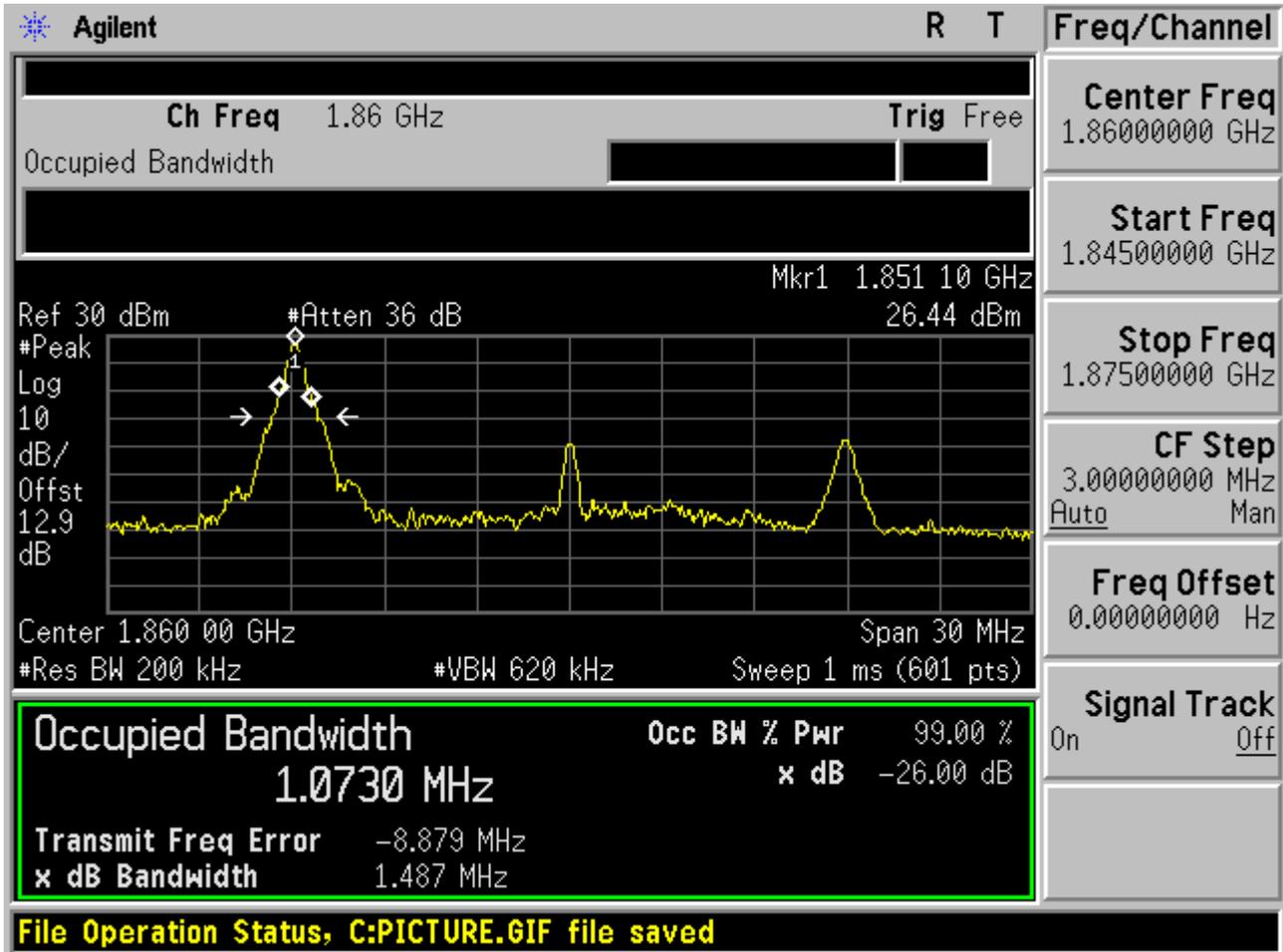




2.1.6 Channel Bandwidth = 20 MHz

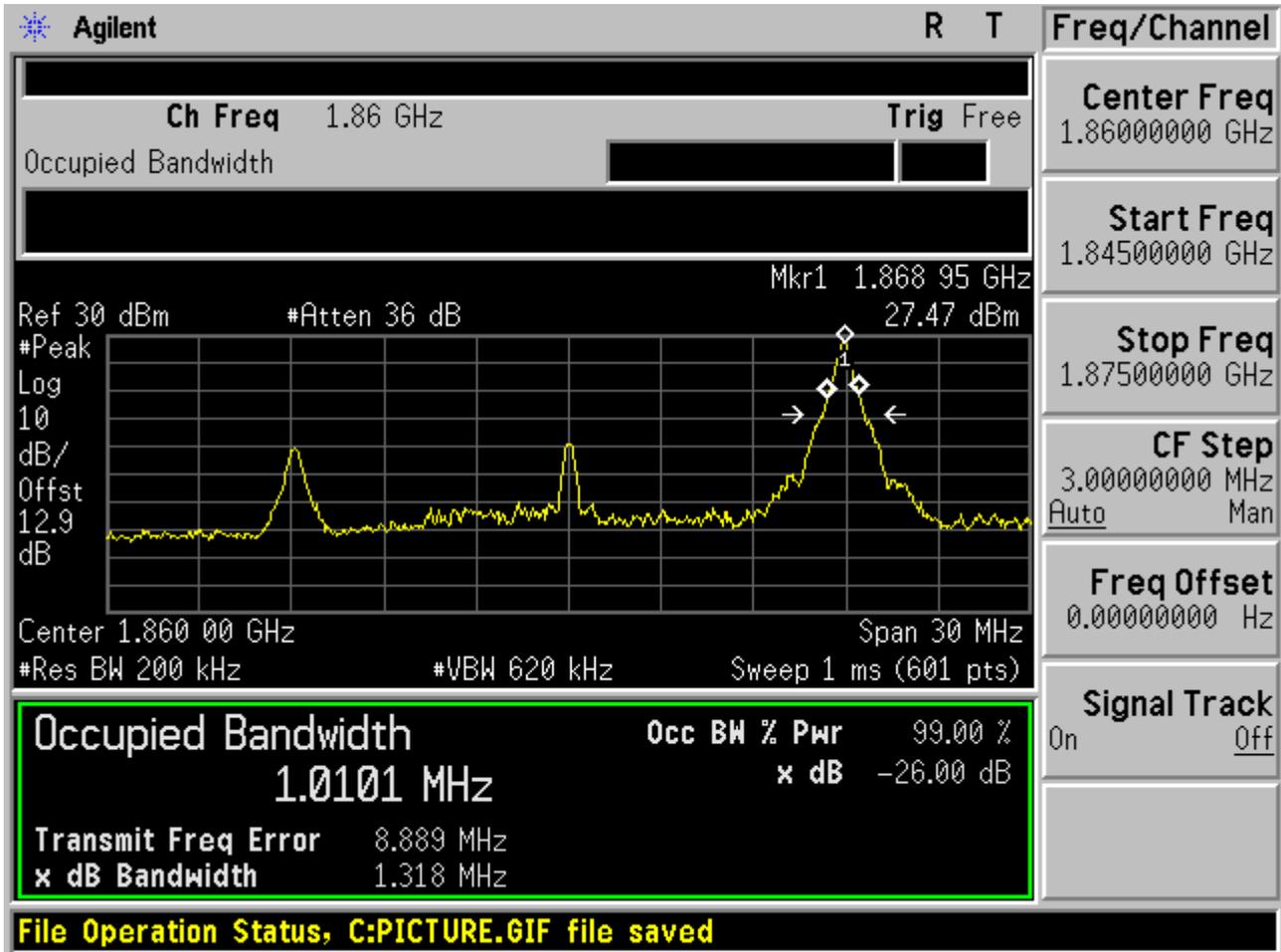
2.1.6.1 Channel = B

2.1.6.1.1 QPSK/1RB # 0



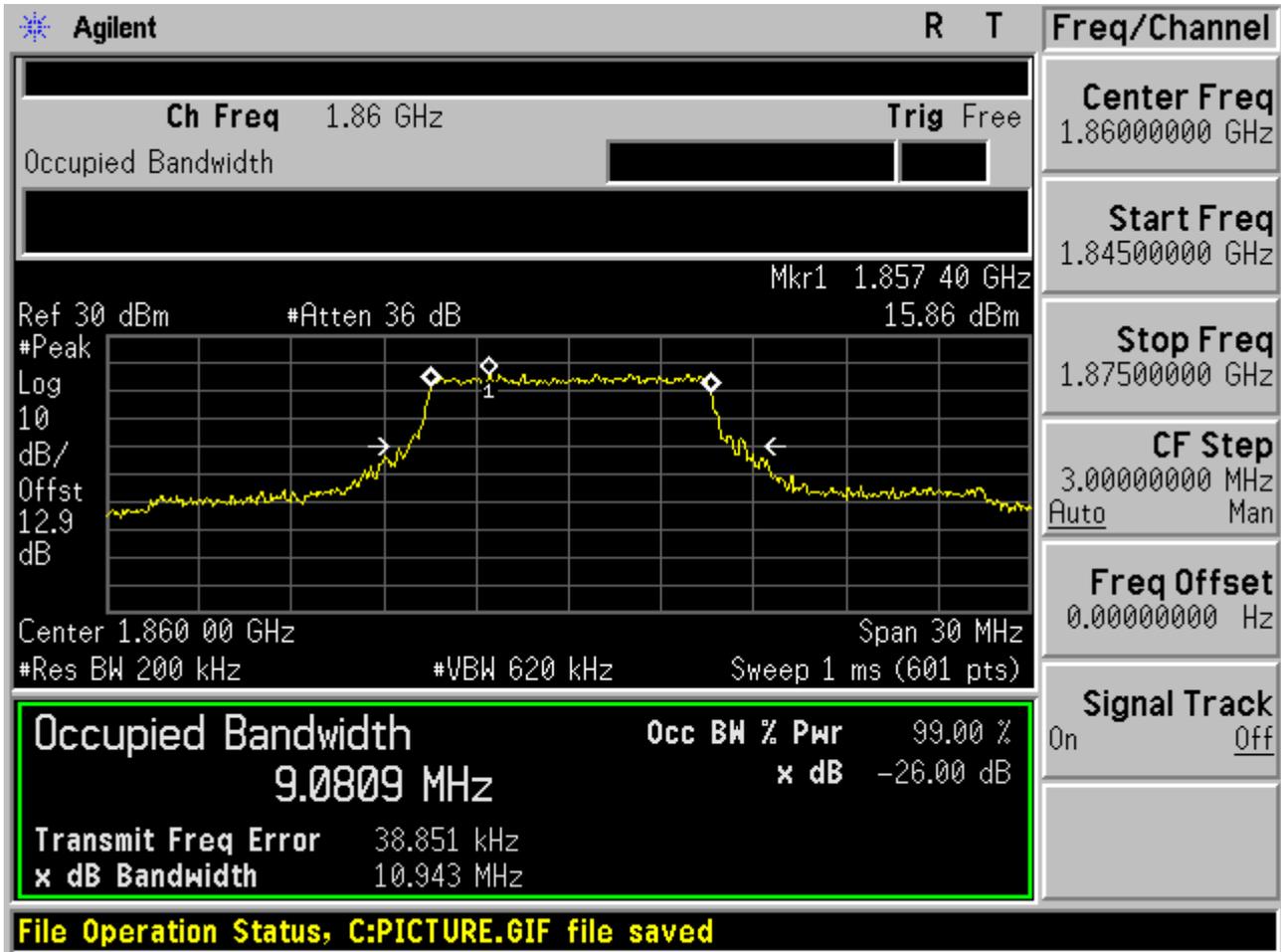


2.1.6.1.2 QPSK/1RB # max



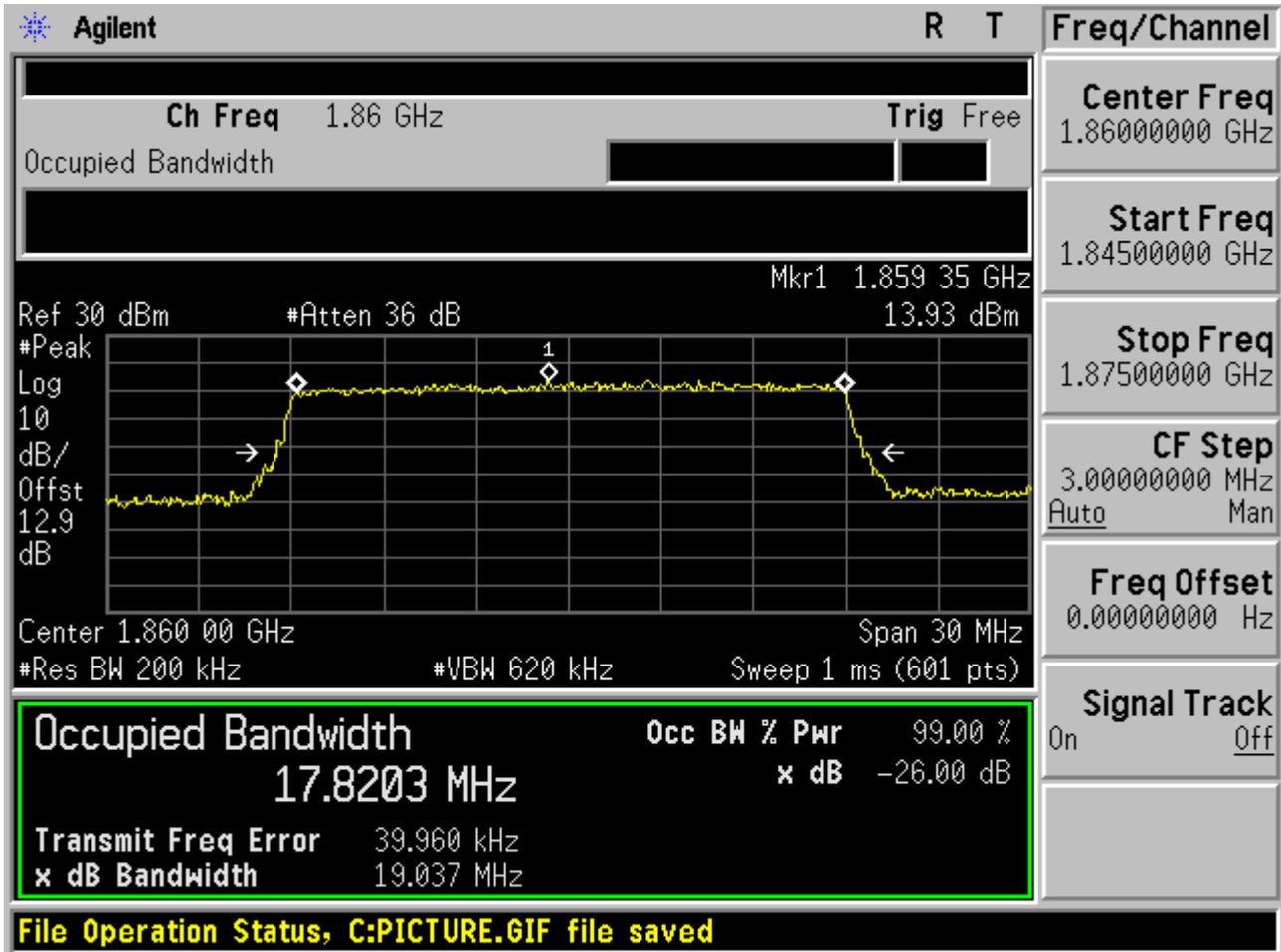


2.1.6.1.3 QPSK/non-1RB #mid/2





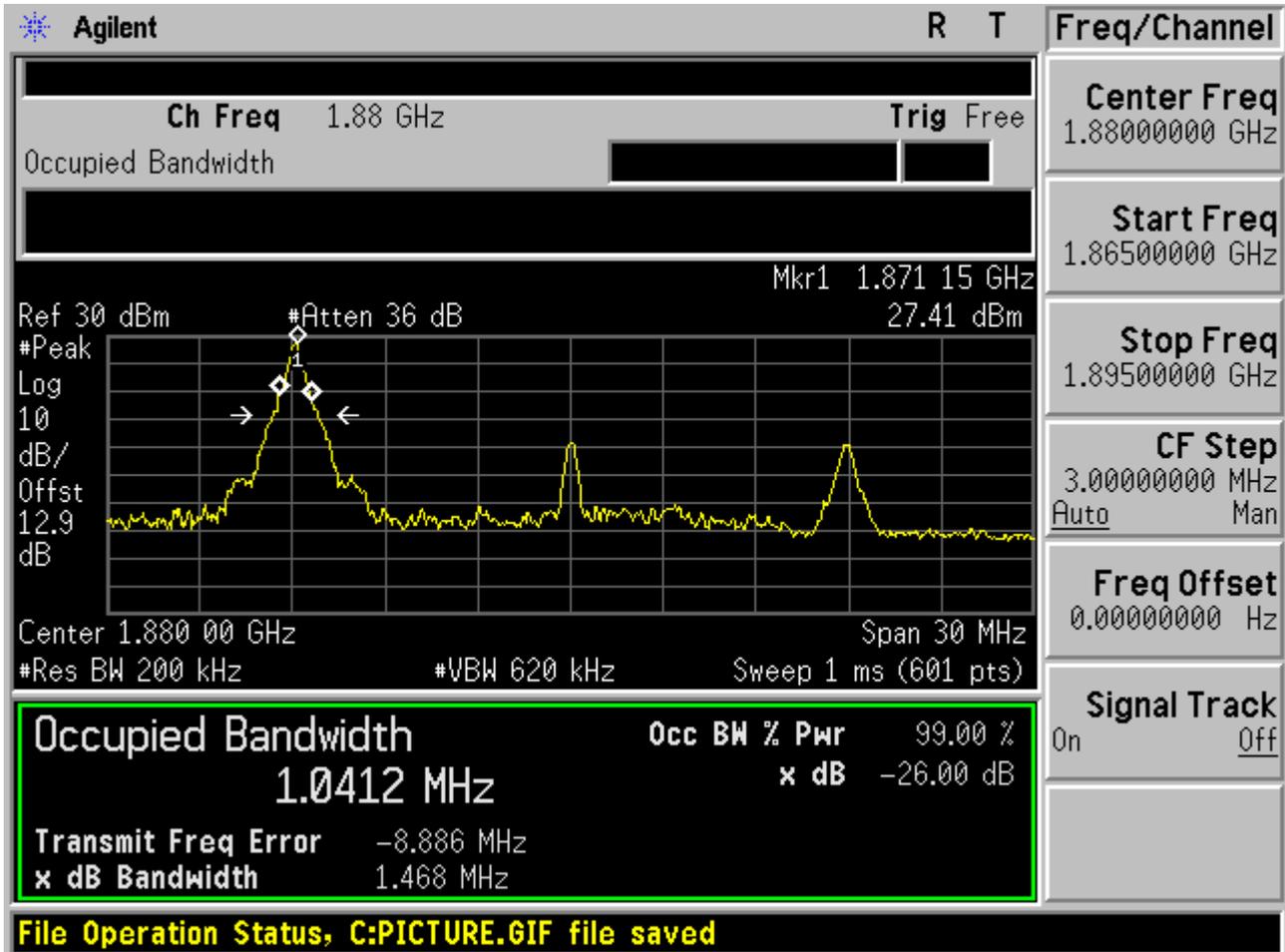
2.1.6.1.4 QPSK/full RBs





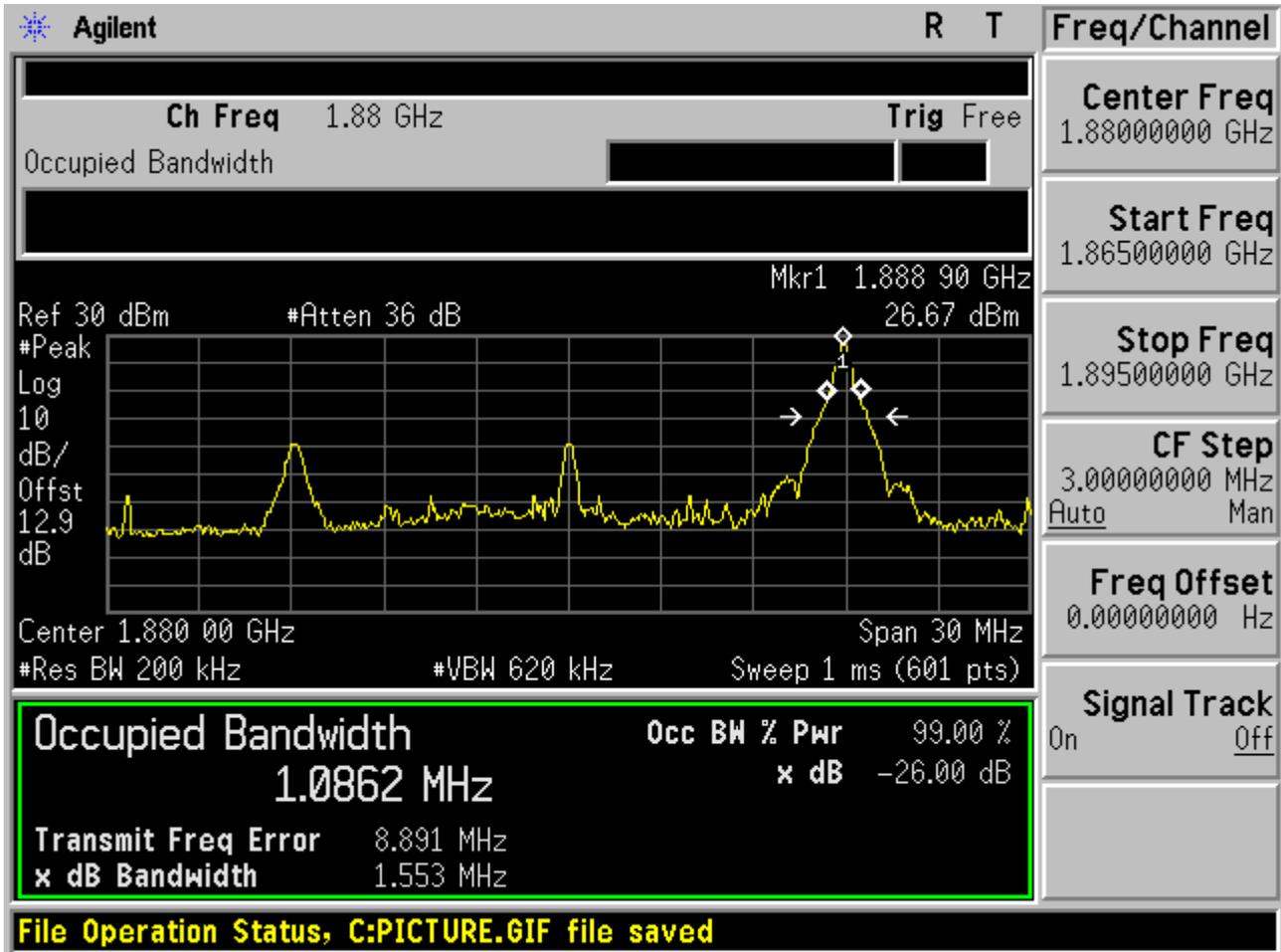
2.1.6.2 Channel =M

2.1.6.2.1 QPSK/1RB # 0



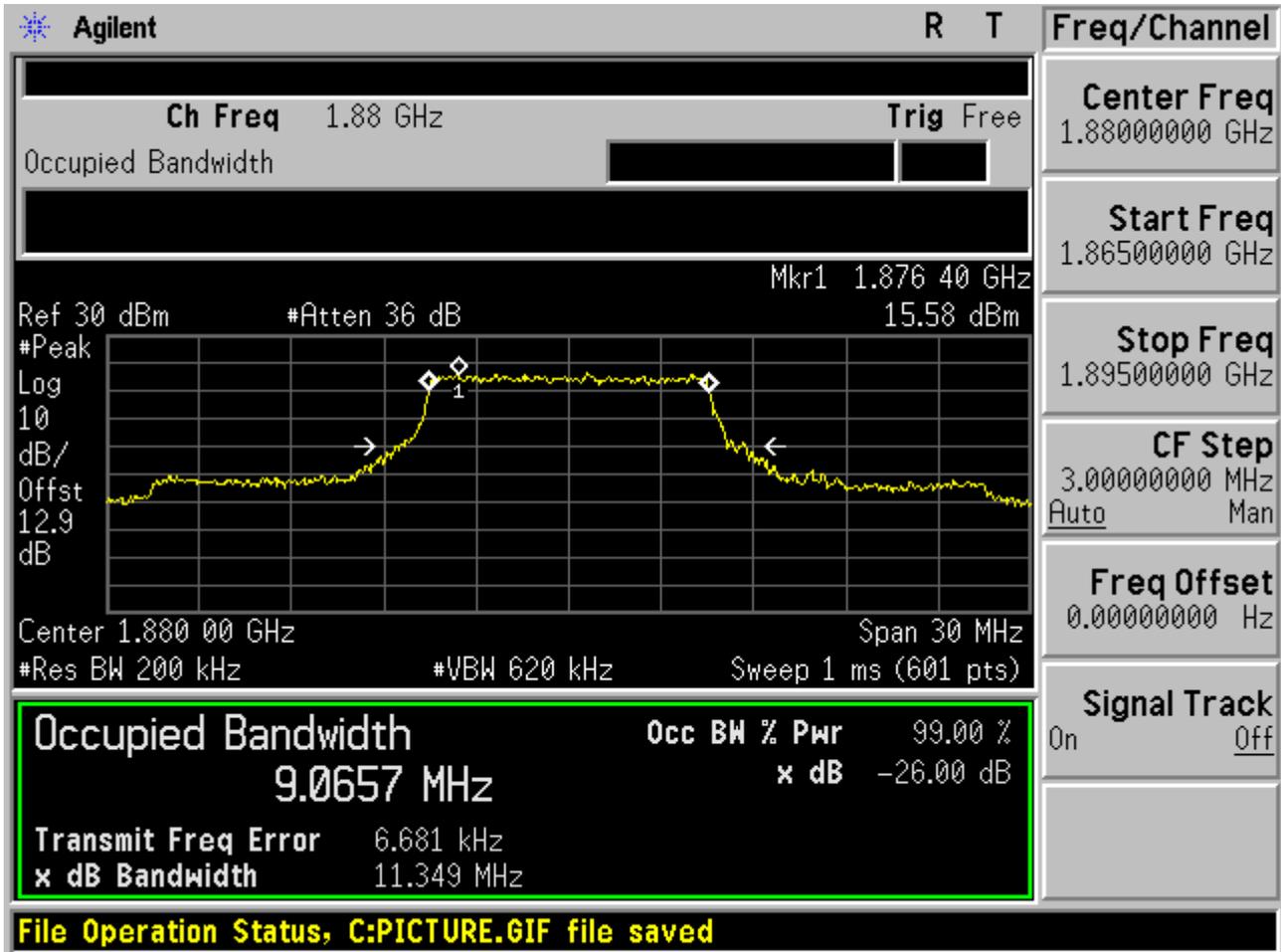


2.1.6.2.2 QPSK/1RB # max



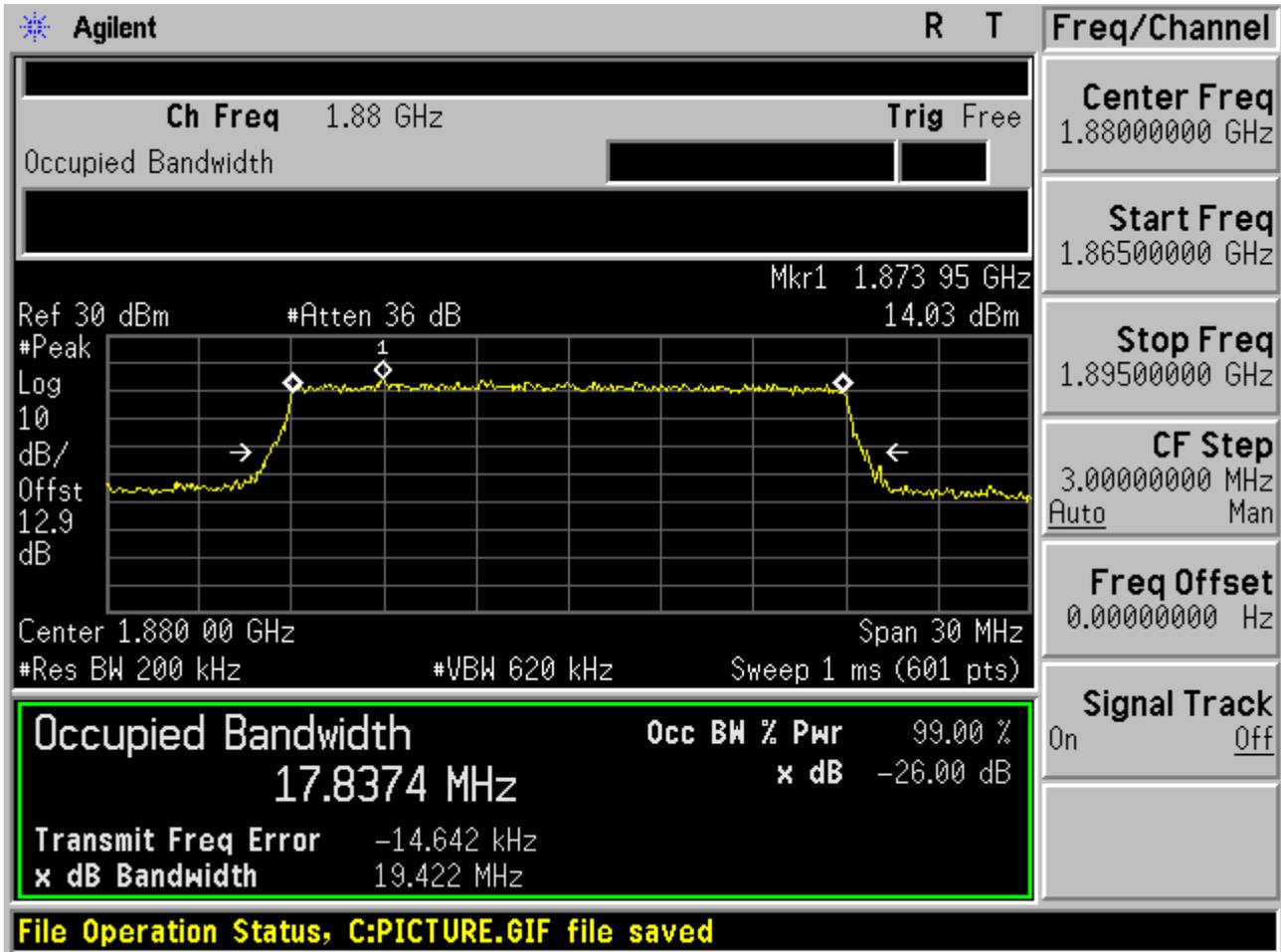


2.1.6.2.3 QPSK/non-1RB #mid/2





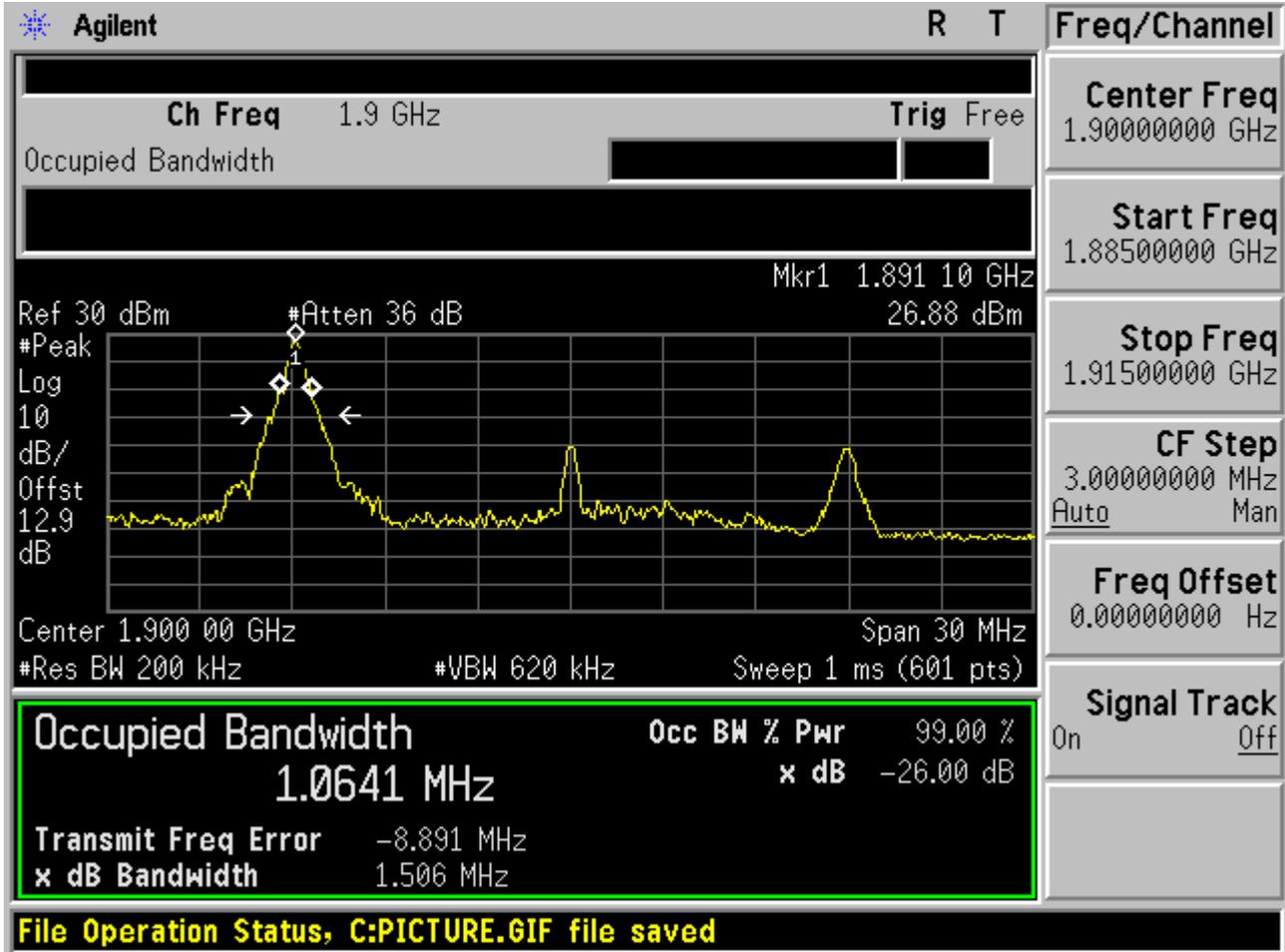
2.1.6.2.4 QPSK/full RBs





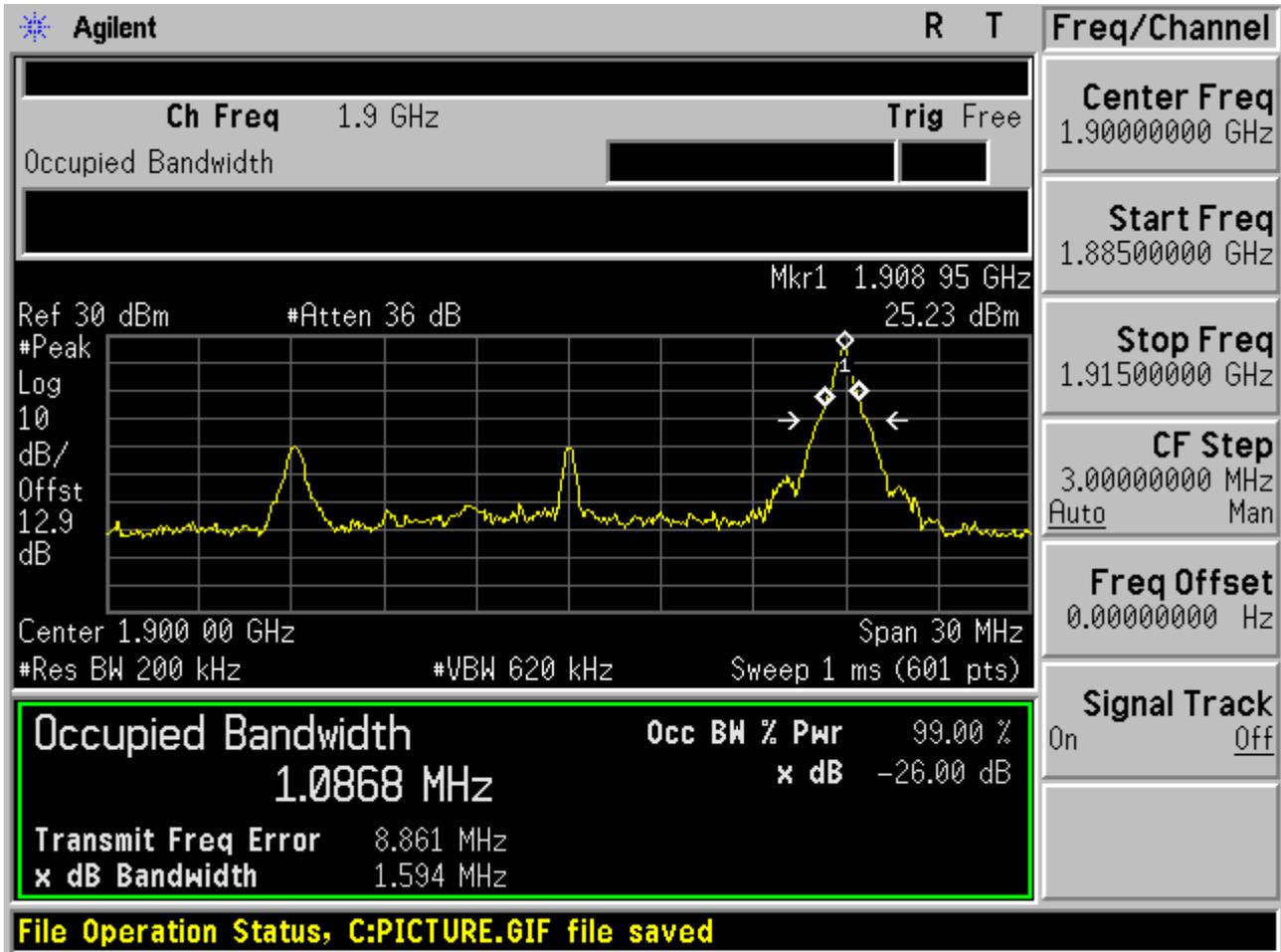
2.1.6.3 Channel = T

2.1.6.3.1 QPSK/1RB # 0





2.1.6.3.2 QPSK/1RB # max





2.1.6.3.3 QPSK/non-1RB #mid/2

Agilent R T

Ch Freq 1.9 GHz **Trig** Free

Occupied Bandwidth [Progress Bar]

Ref 30 dBm #Atten 36 dB

#Peak Mkr1 1.897 10 GHz

Log 15.78 dBm

10

dB/

Offst 12.9

dB

Center 1.900 00 GHz Span 30 MHz

#Res BW 200 kHz #VBW 620 kHz

Sweep 1 ms (601 pts)

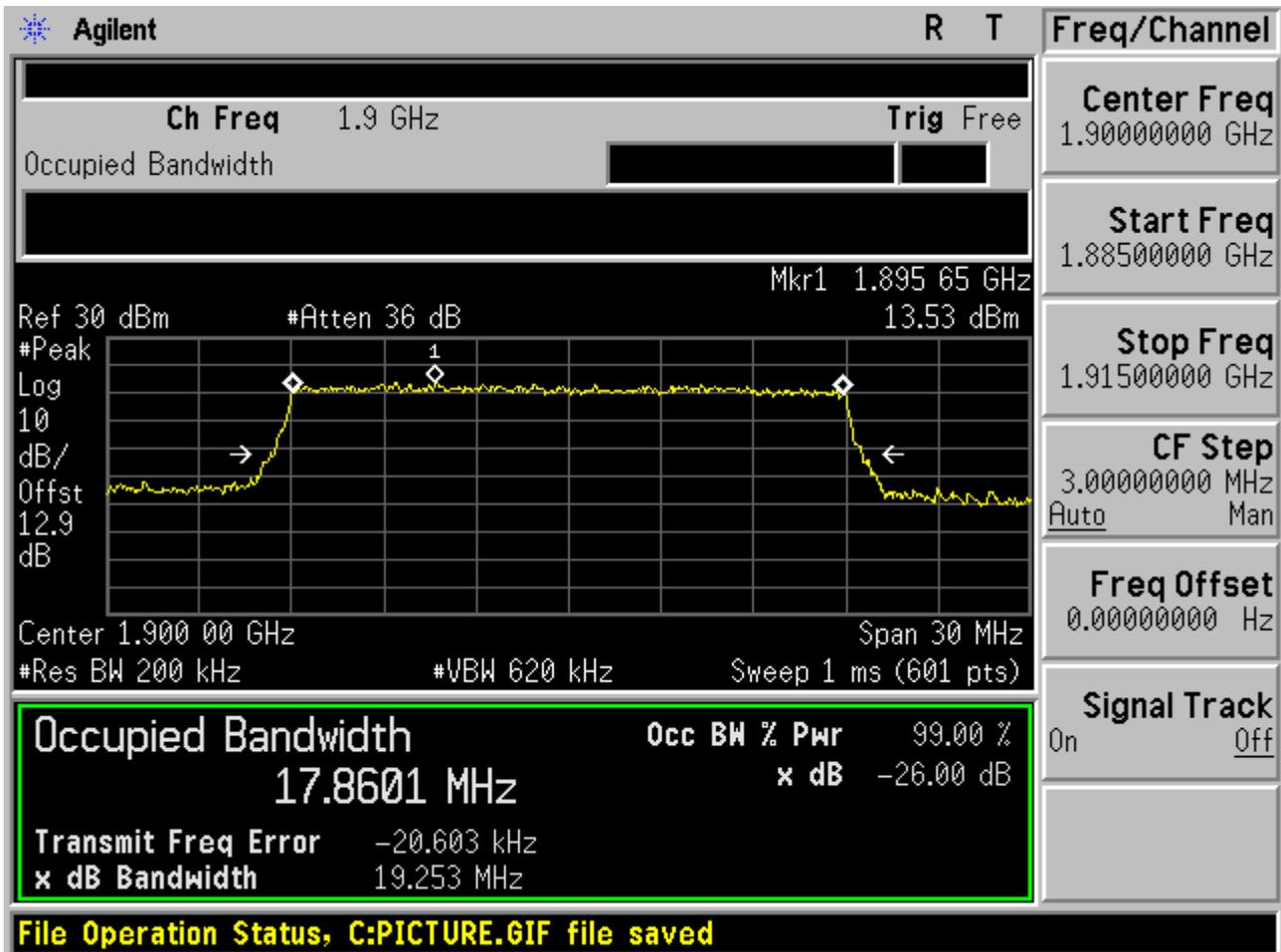
Occupied Bandwidth	Occ BW % Pwr 99.00 %
9.0983 MHz	x dB -26.00 dB
Transmit Freq Error 6.959 kHz	
x dB Bandwidth 10.946 MHz	

File Operation Status, C:PICTURE.GIF file saved

Freq/Channel
Center Freq 1.90000000 GHz
Start Freq 1.88500000 GHz
Stop Freq 1.91500000 GHz
CF Step 3.00000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off



2.1.6.3.4 QPSK/full RBs



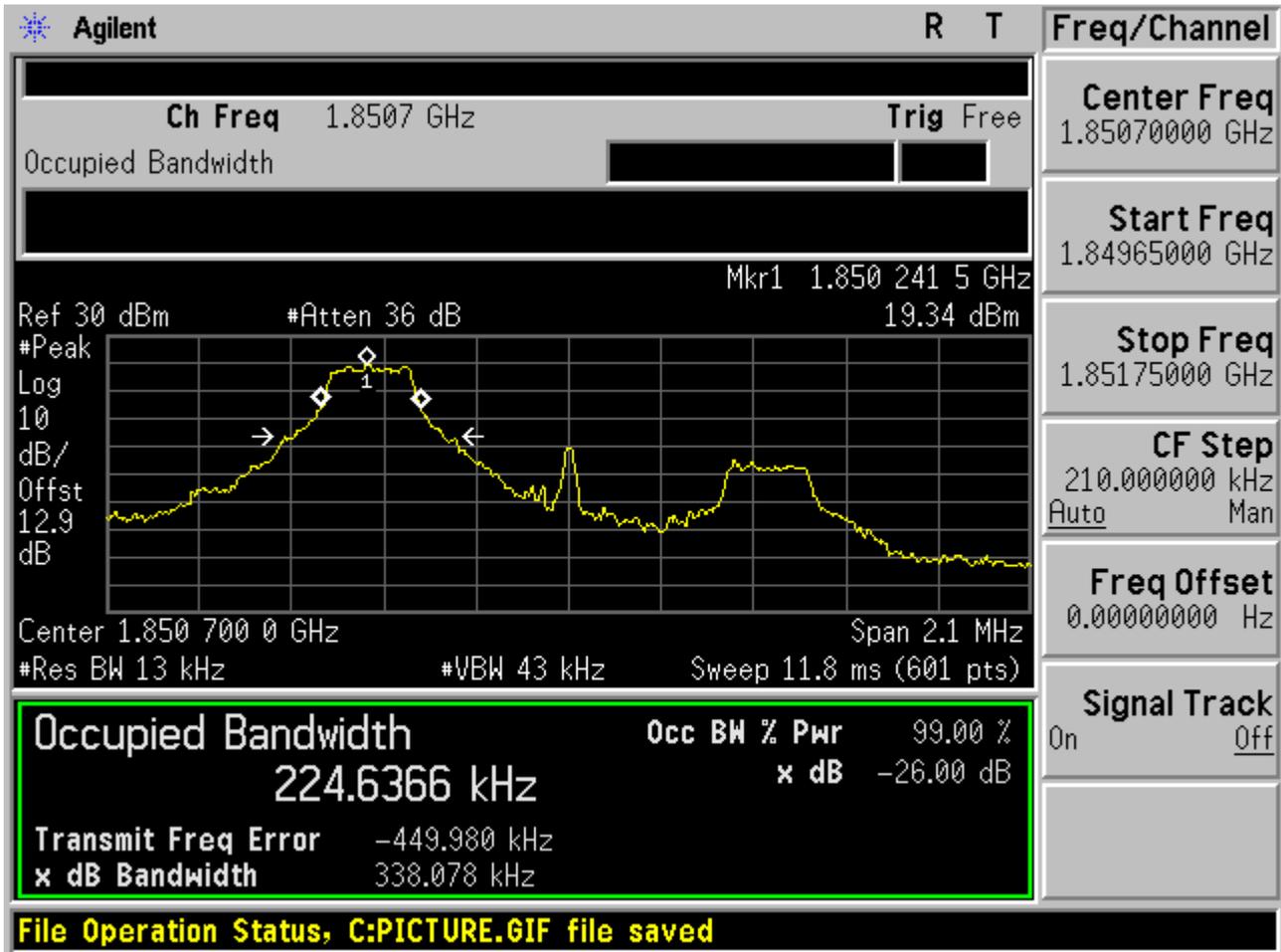


2.2 Test Mode=TM5

2.2.1 Channel Bandwidth = 1.4 MHz

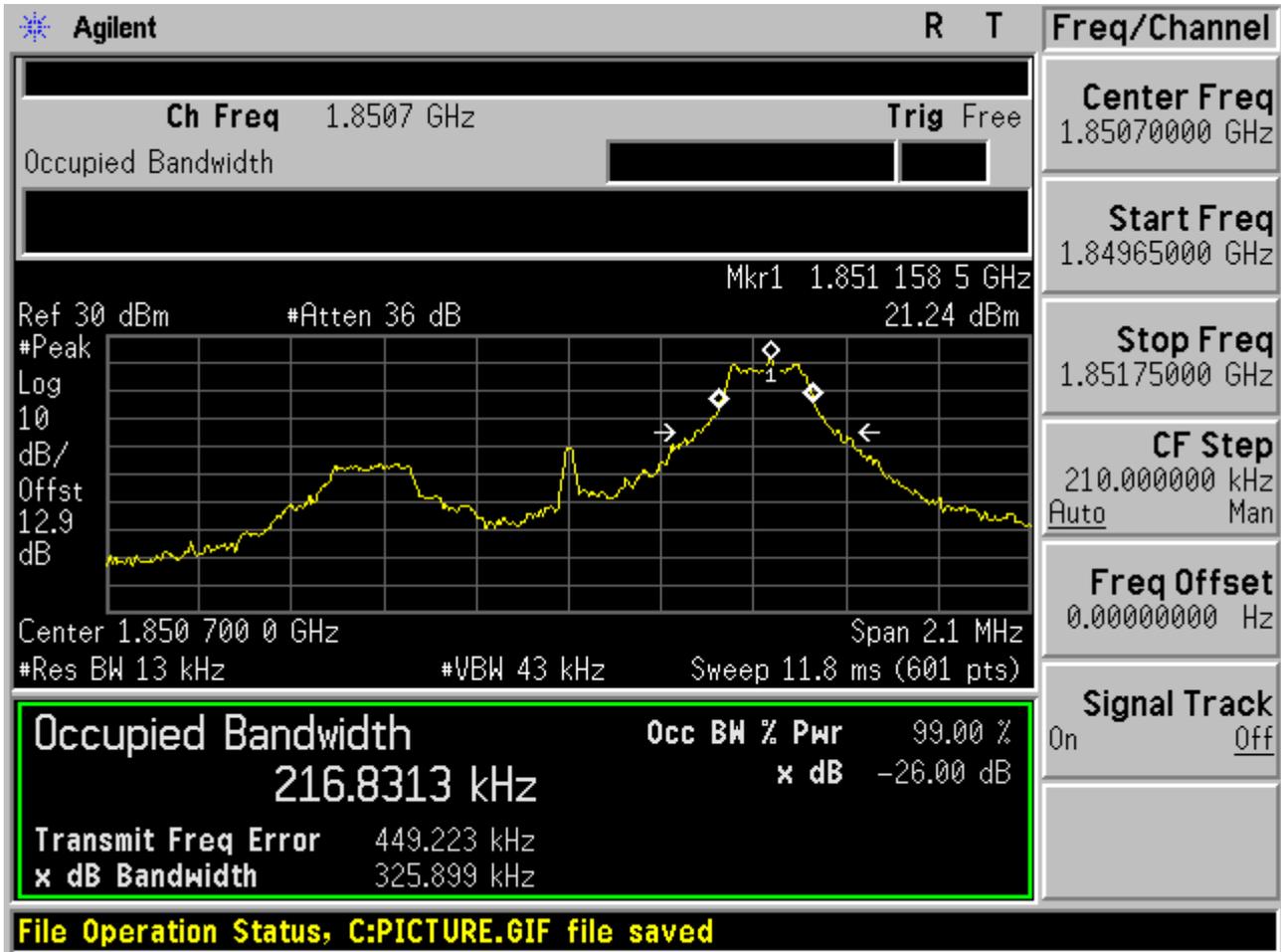
2.2.1.1 Channel =B

2.2.1.1.1 16QAM/1RB # 0



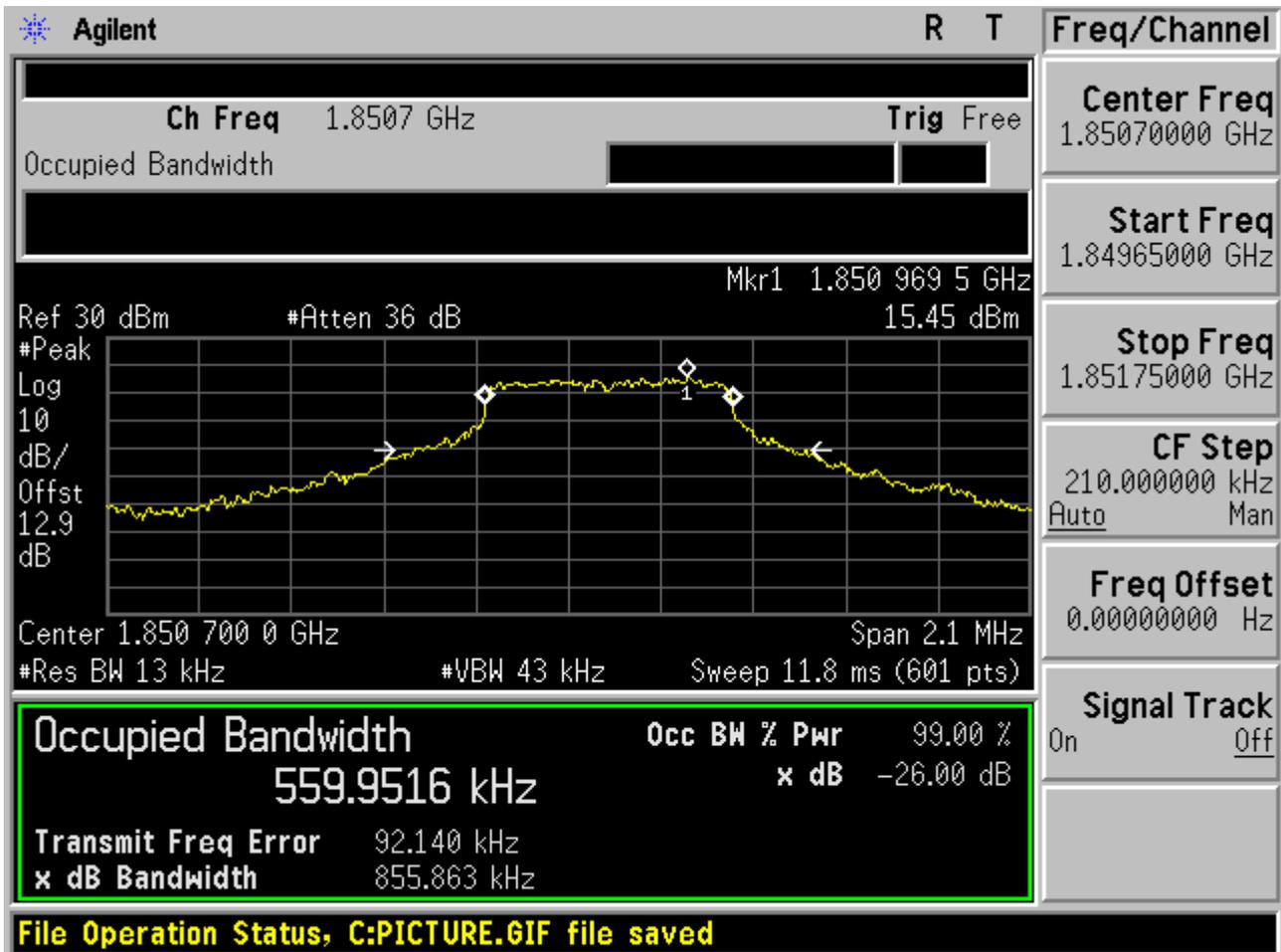


2.2.1.1.2 16QAM /1RB # max





2.2.1.1.3 16QAM /non-1RB #mid/2





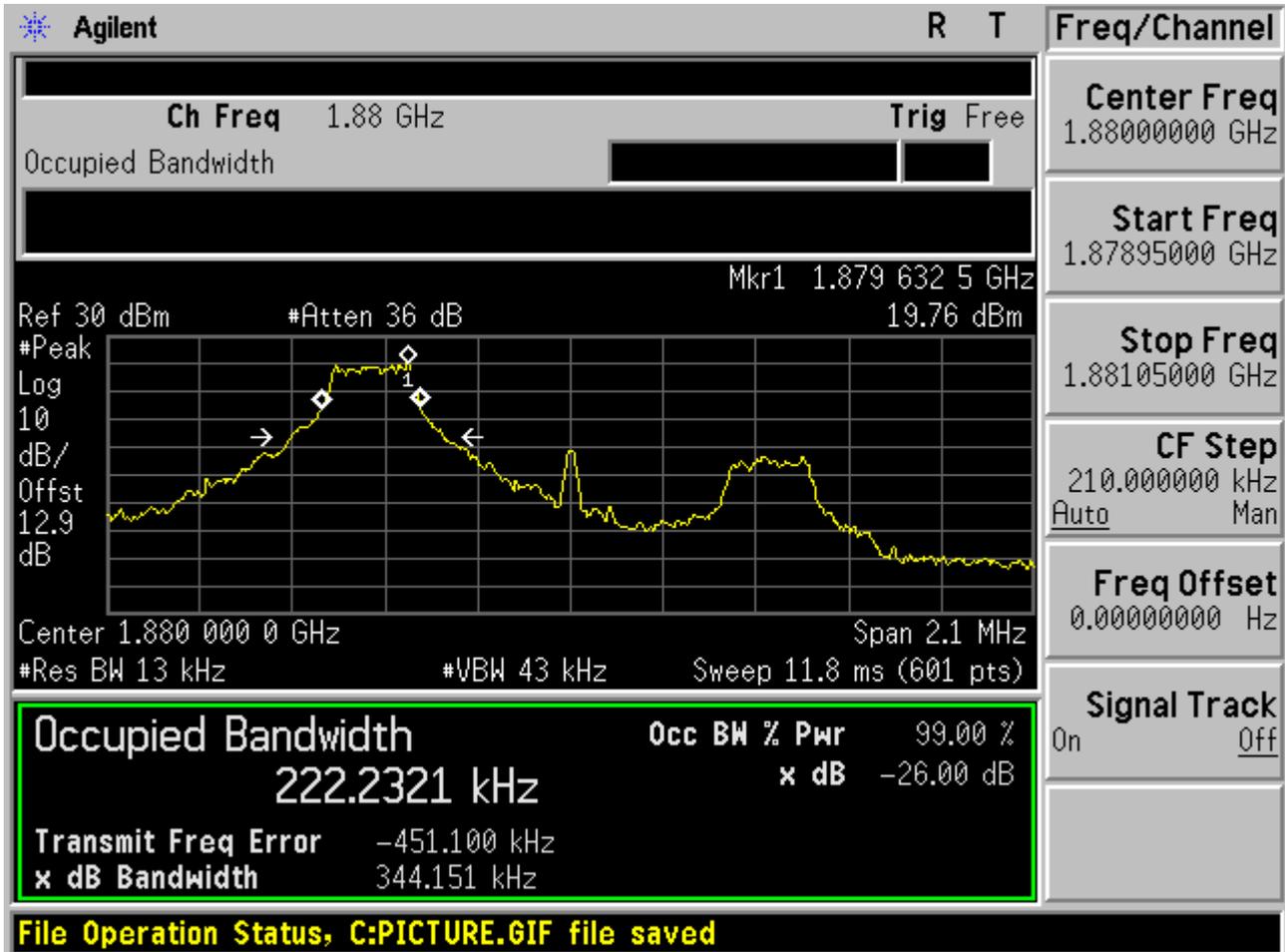
2.2.1.1.4 16QAM /full RBs





2.2.1.2 Channel =M

2.2.1.2.1 16QAM/1RB # 0



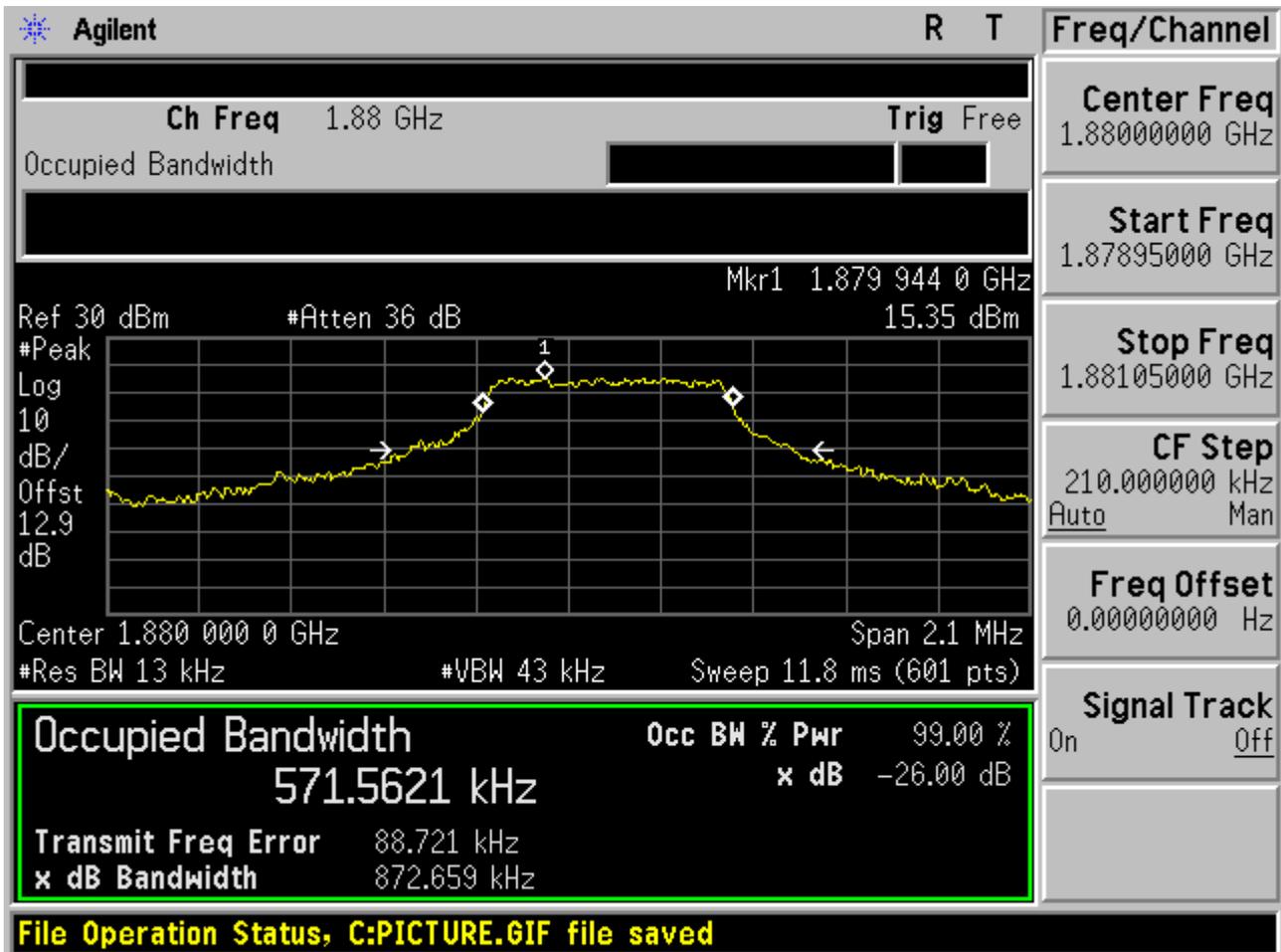


2.2.1.2.2 16QAM /1RB # max



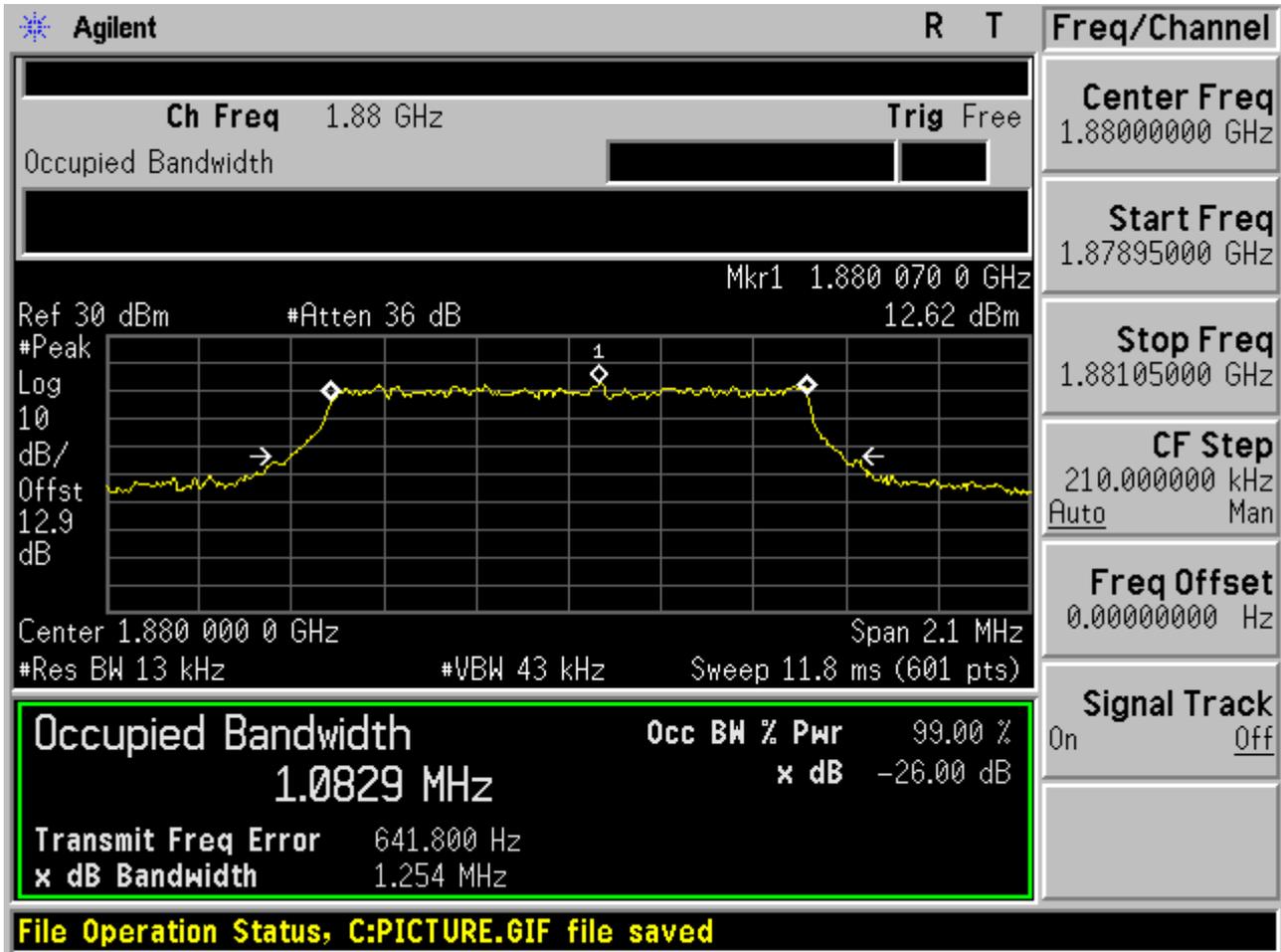


2.2.1.2.3 16QAM /non-1RB #mid/2





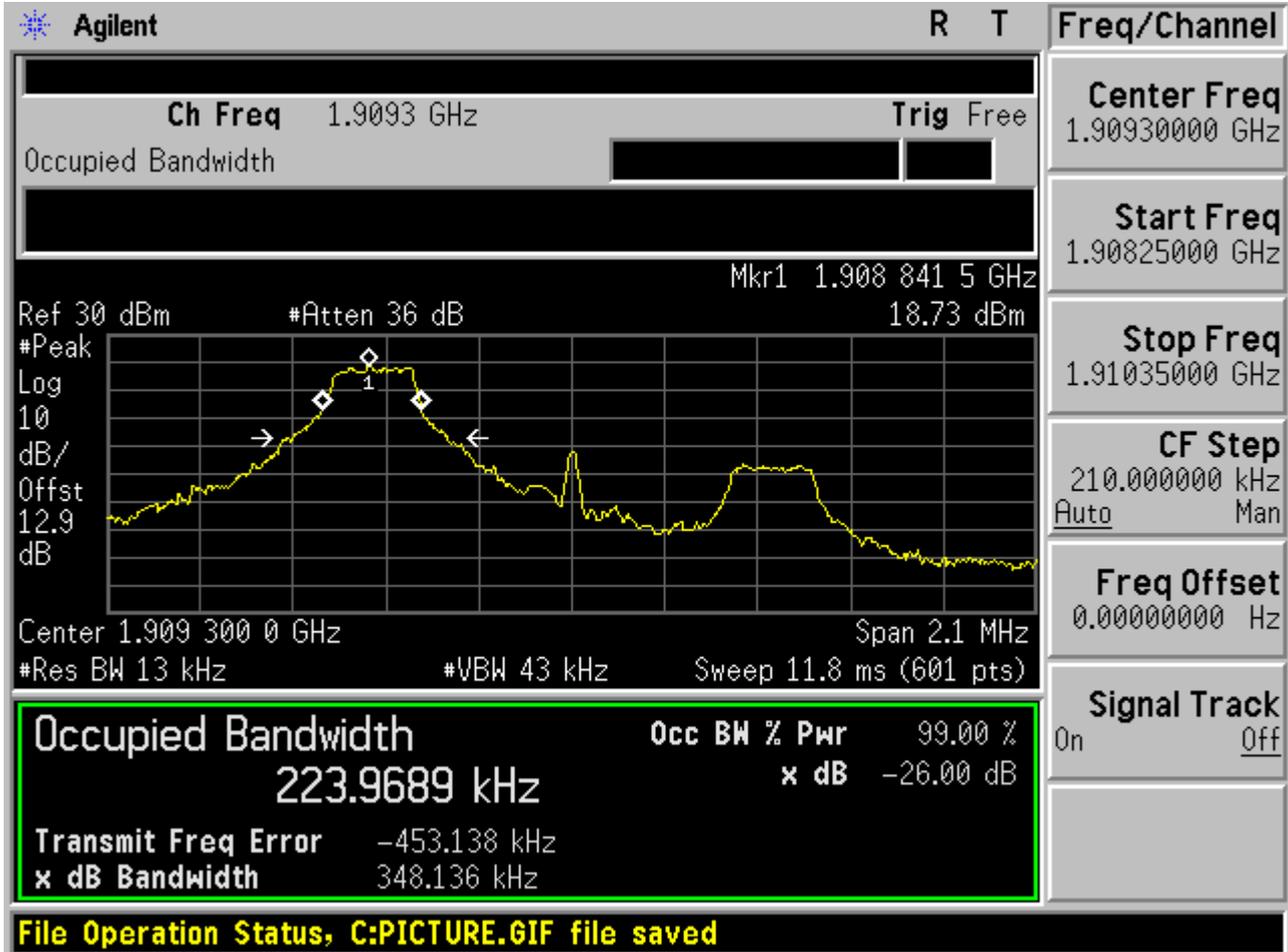
2.2.1.2.4 16QAM /full RBs





2.2.1.3 Channel = T

2.2.1.3.1 16QAM/1RB # 0





2.2.1.3.2 16QAM /1RB # max





2.2.1.3.3 16QAM /non-1RB #mid/2

Agilent R T

Ch Freq 1.9093 GHz **Trig** Free

Occupied Bandwidth Mkr1 1.909 573 0 GHz

Ref 30 dBm #Atten 36 dB 14.10 dBm

#Peak 1

Log

10

dB/

Offst

12.9

dB

Center 1.909 300 0 GHz Span 2.1 MHz

#Res BW 13 kHz #VBW 43 kHz Sweep 11.8 ms (601 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
559.1582 kHz	x dB -26.00 dB
Transmit Freq Error 90.491 kHz	
x dB Bandwidth 781.685 kHz	

File Operation Status, C:PICTURE.GIF file saved

Freq/Channel

Center Freq
1.90930000 GHz

Start Freq
1.90825000 GHz

Stop Freq
1.91035000 GHz

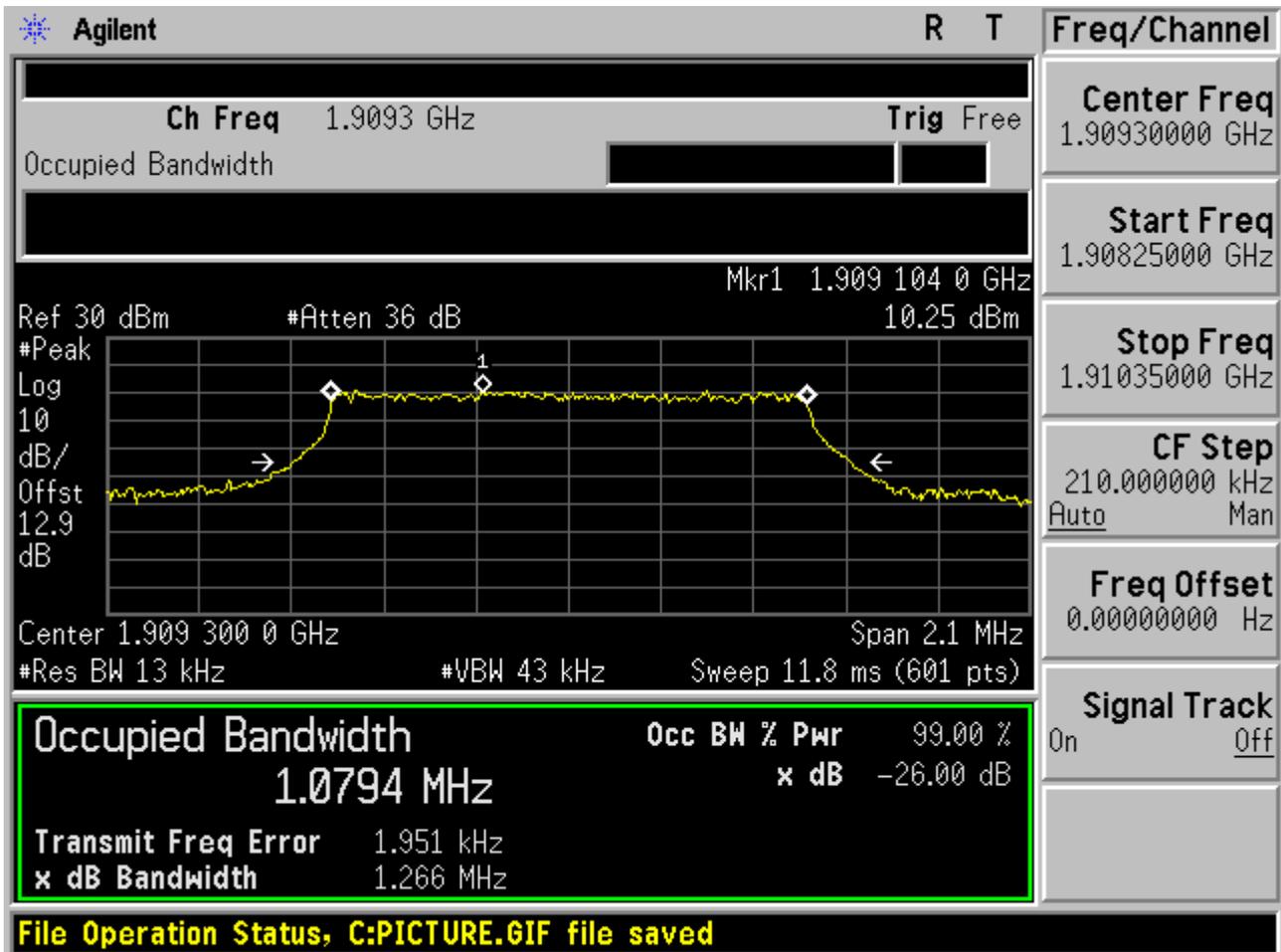
CF Step
210.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off



2.2.1.3.4 16QAM /full RBs

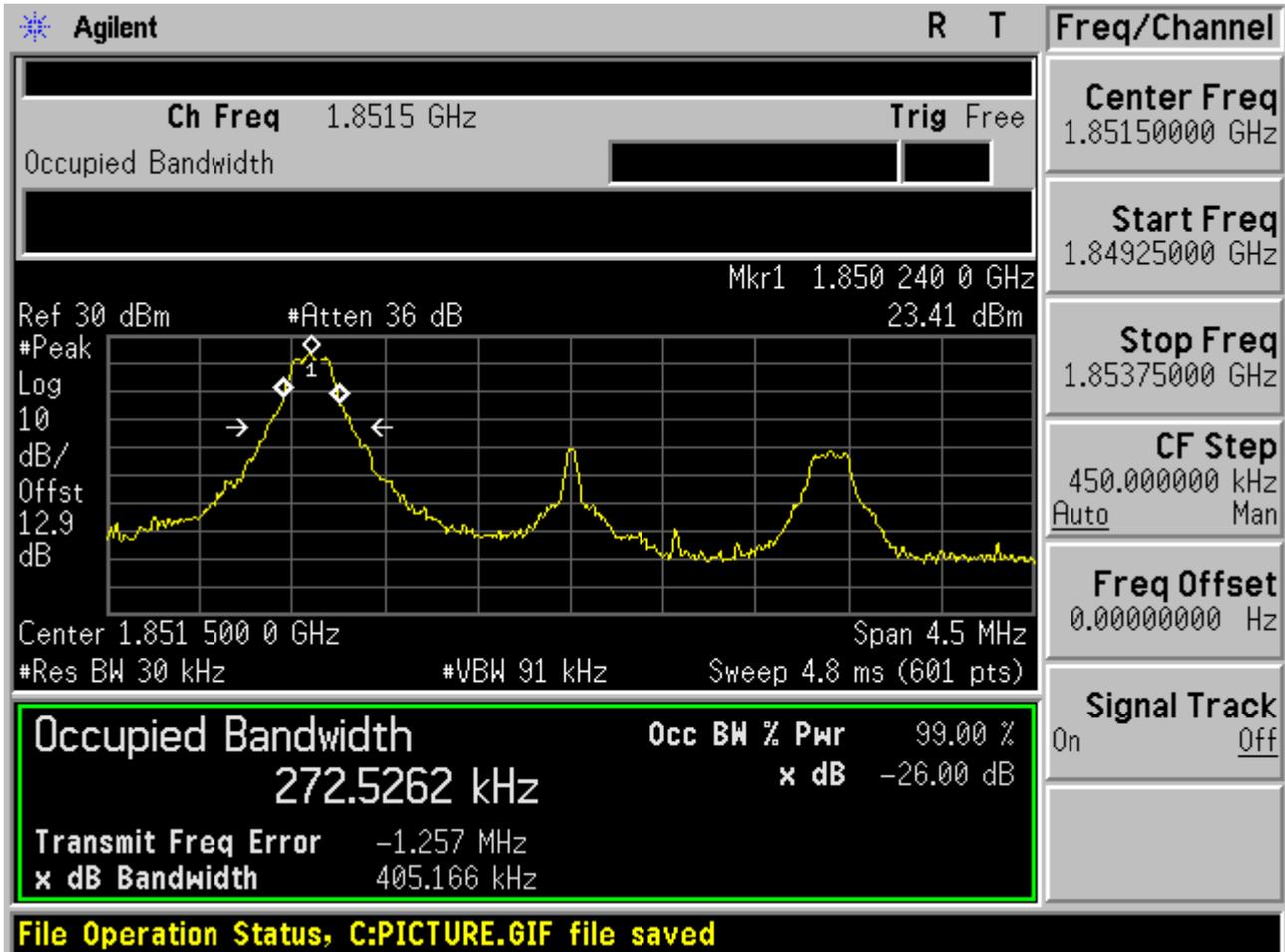




2.2.2 Channel Bandwidth = 3 MHz

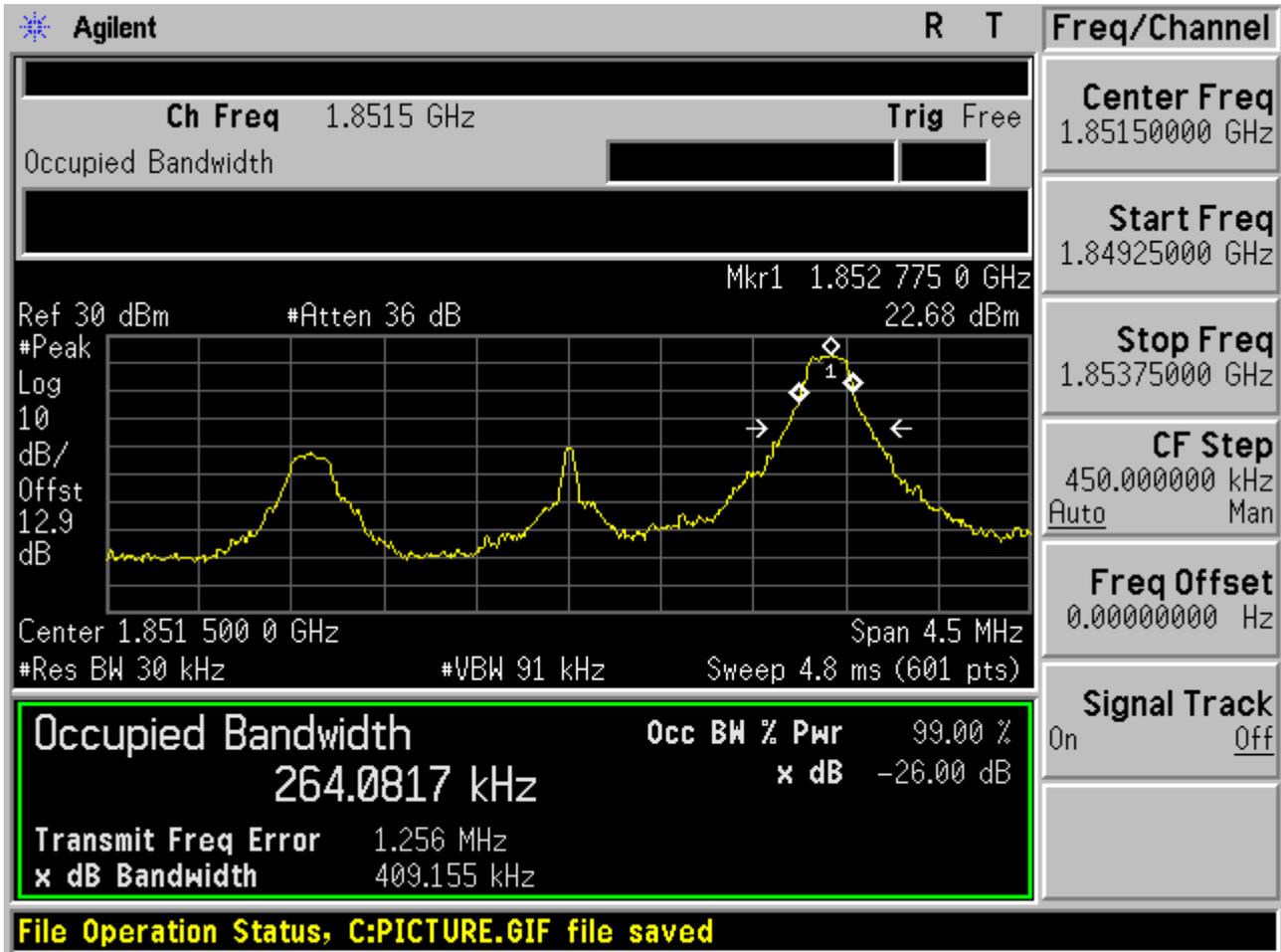
2.2.2.1 Channel =B

2.2.2.1.1 16QAM/1RB # 0



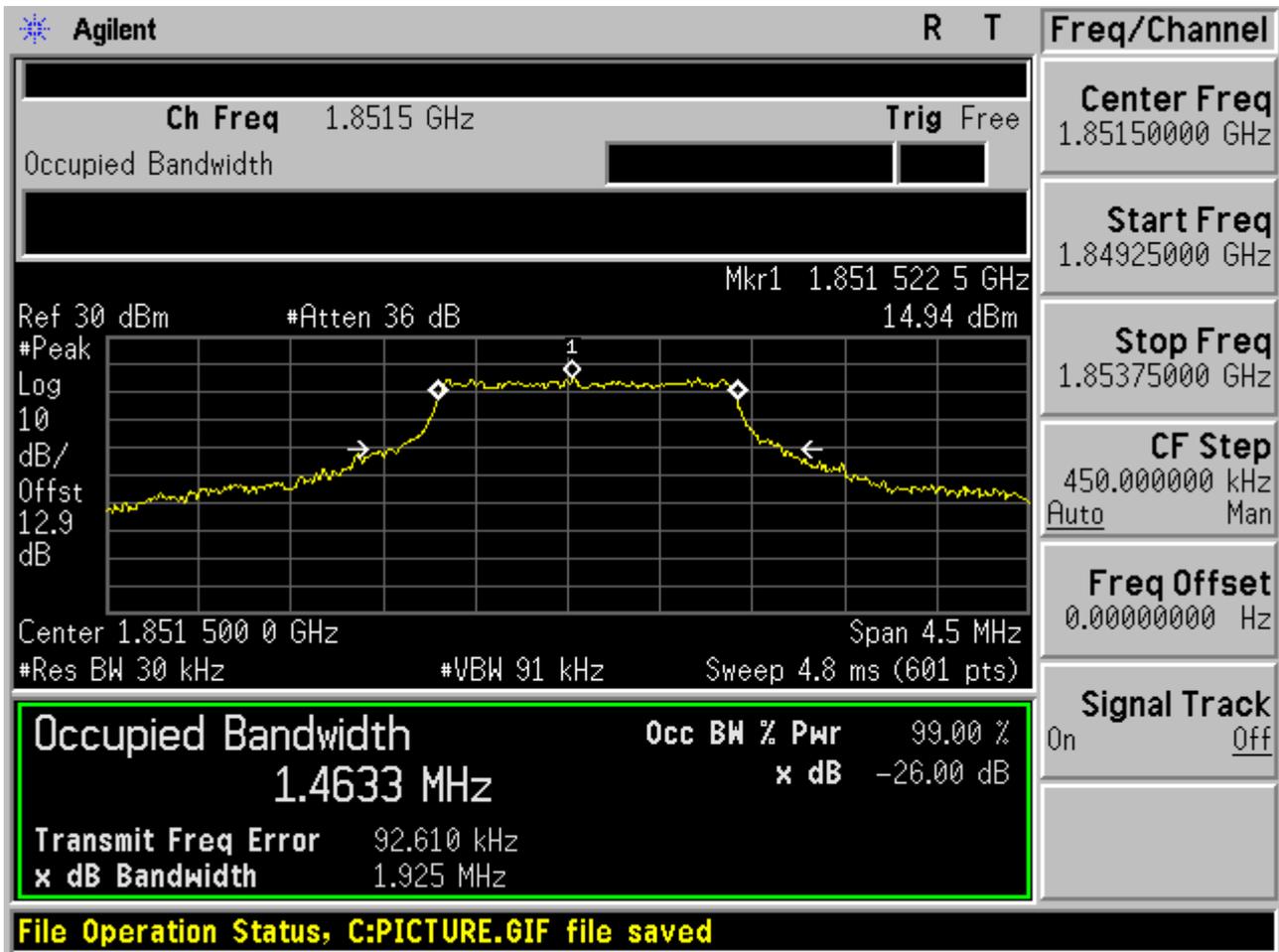


2.2.2.1.2 16QAM /1RB # max



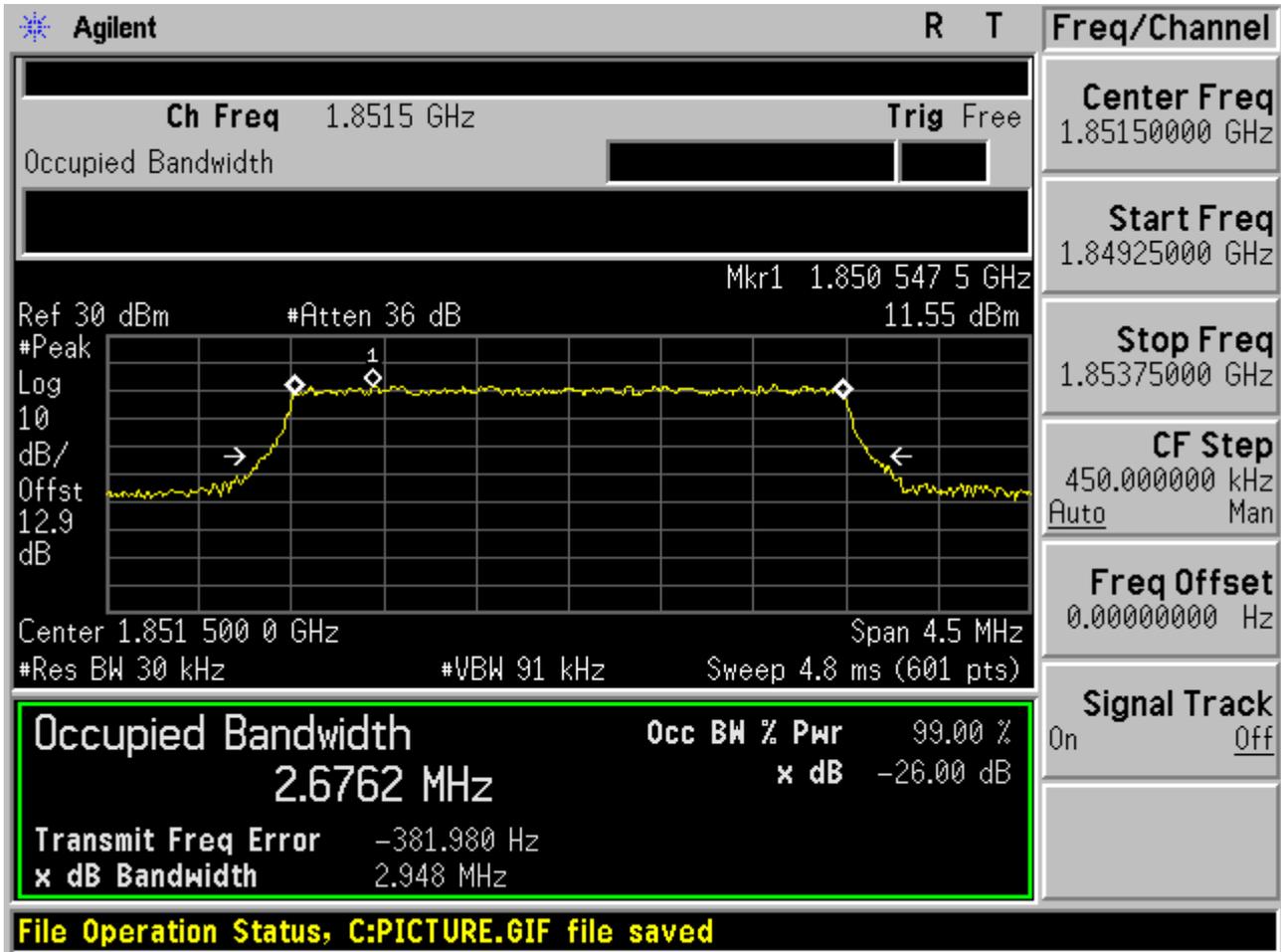


2.2.2.1.3 16QAM /non-1RB #mid/2





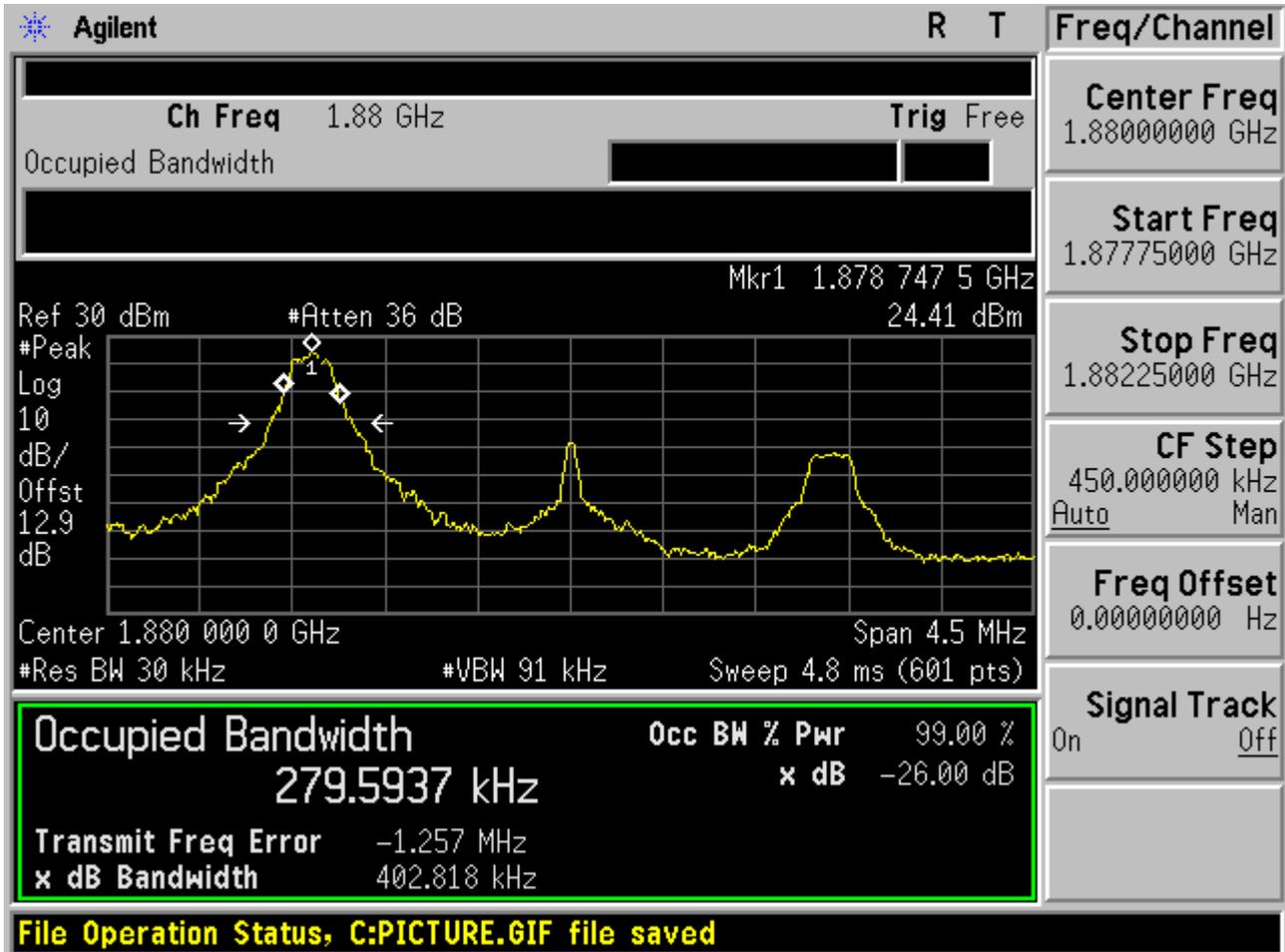
2.2.2.1.4 16QAM /full RBs





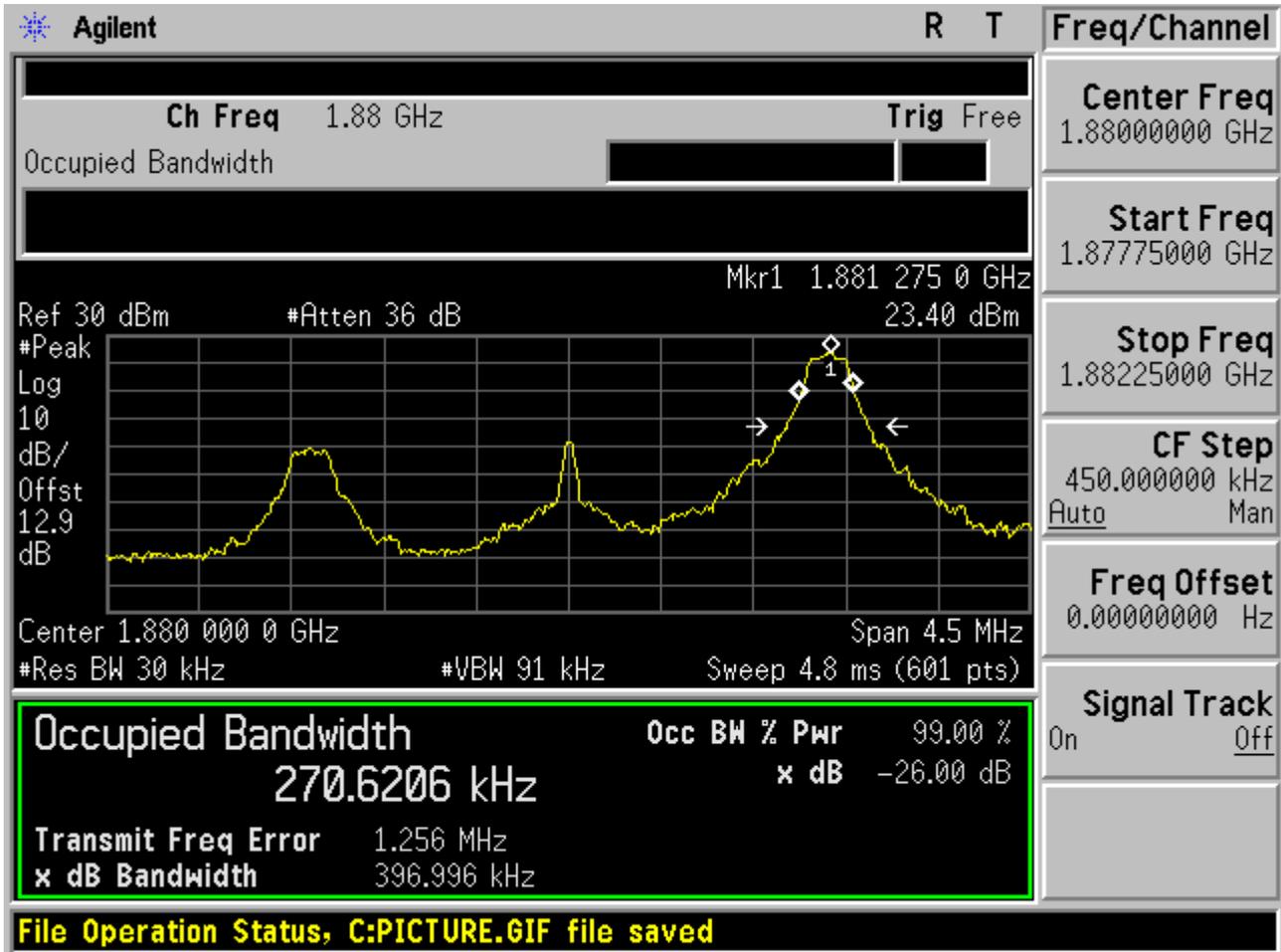
2.2.2.2 Channel =M

2.2.2.2.1 16QAM/1RB # 0



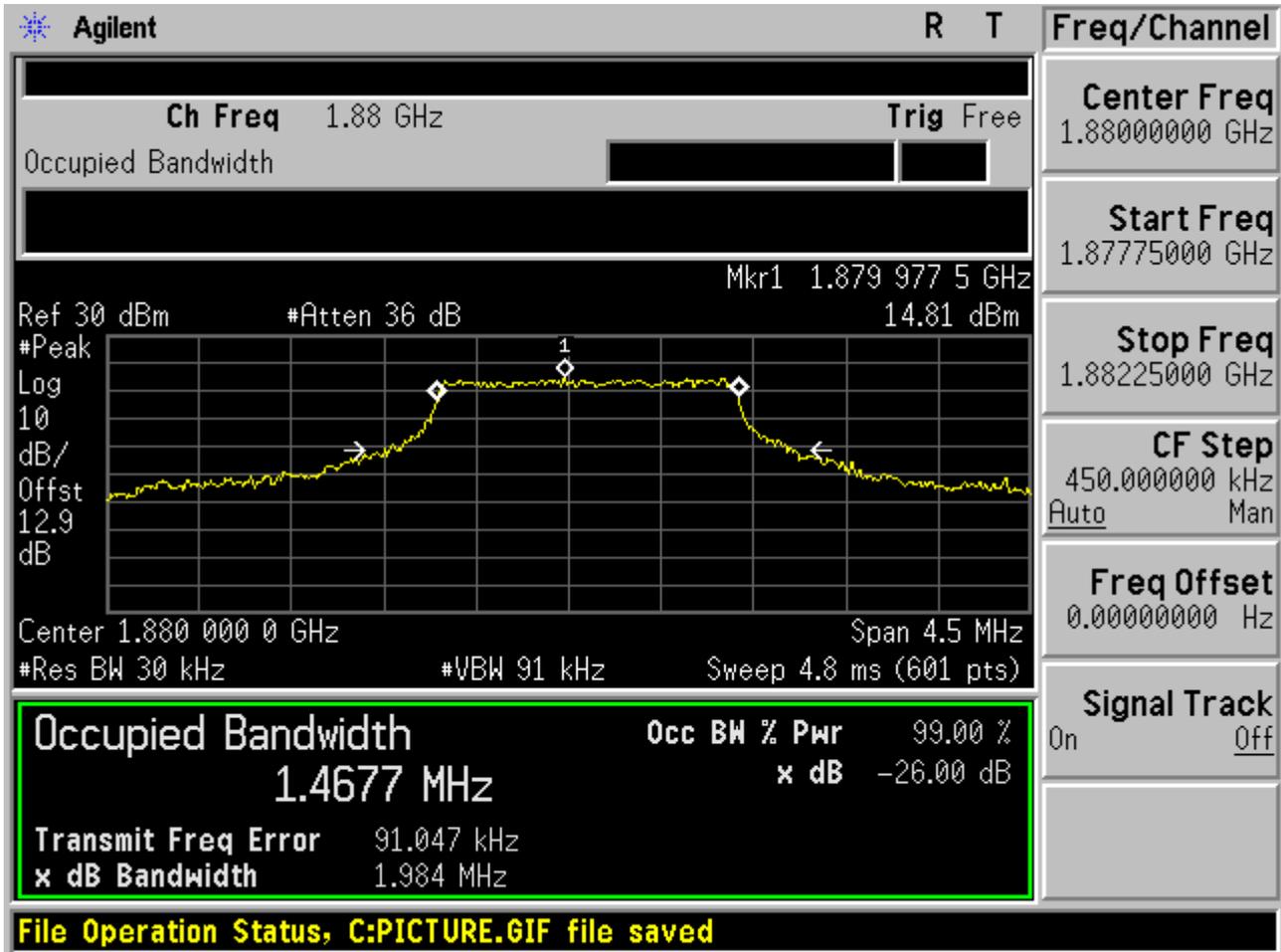


2.2.2.2.2 16QAM /1RB # max





2.2.2.2.3 16QAM /non-1RB #mid/2





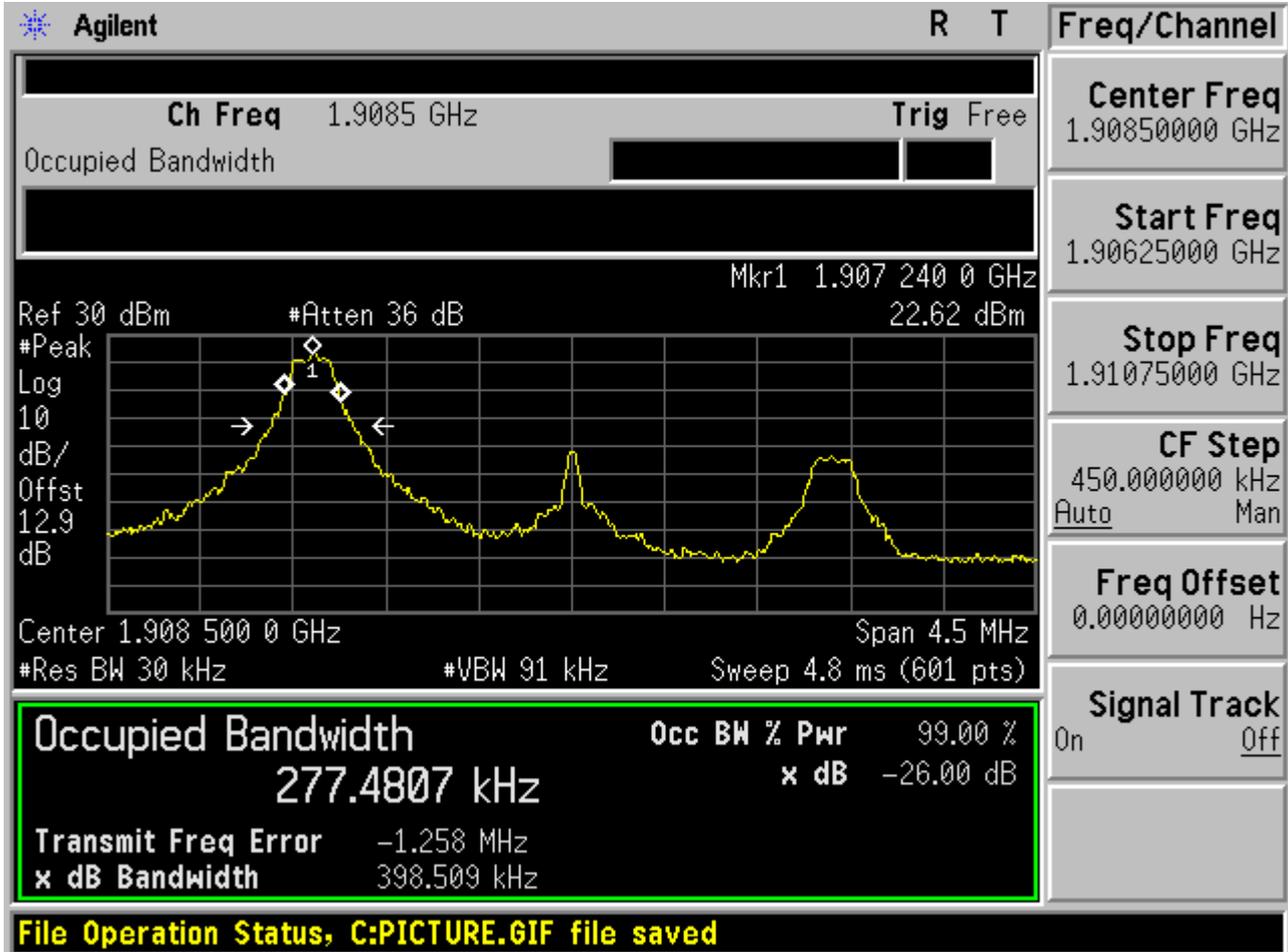
2.2.2.2.4 16QAM /full RBs





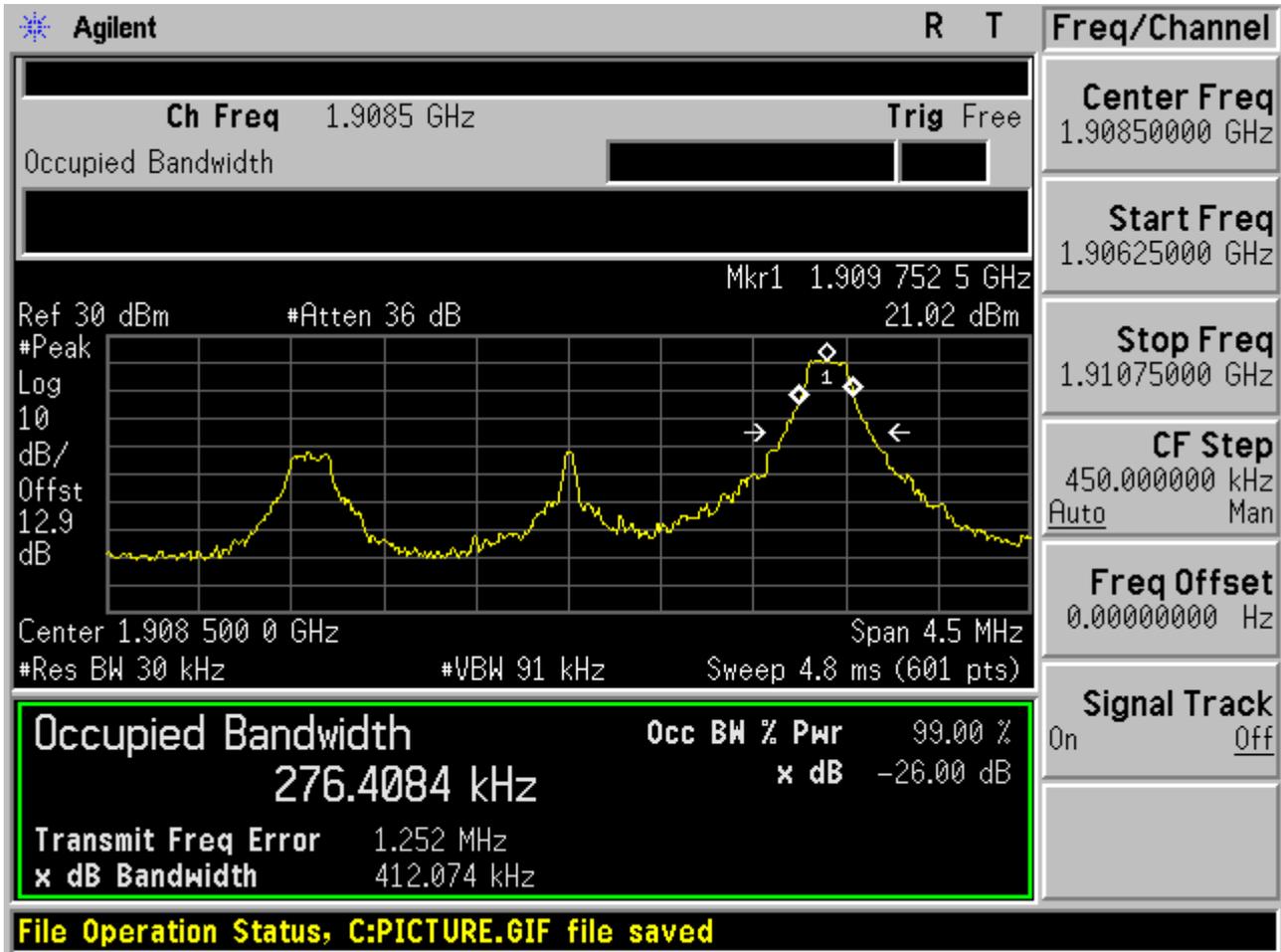
2.2.2.3 Channel = T

2.2.2.3.1 16QAM/1RB # 0





2.2.2.3.2 16QAM /1RB # max





2.2.2.3.3 16QAM /non-1RB #mid/2

Agilent R T

Ch Freq 1.9085 GHz **Trig** Free

Occupied Bandwidth Mkr1 1.908 530 0 GHz

Ref 30 dBm #Atten 36 dB

#Peak 14.10 dBm

Log

10 dB/

Offst 12.9 dB

Center 1.908 500 0 GHz Span 4.5 MHz

#Res BW 30 kHz #VBW 91 kHz

Sweep 4.8 ms (601 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
1.4674 MHz	x dB	-26.00 dB
Transmit Freq Error	88.340 kHz	
x dB Bandwidth	1.949 MHz	

File Operation Status, C:PICTURE.GIF file saved

Freq/Channel

Center Freq
1.90850000 GHz

Start Freq
1.90625000 GHz

Stop Freq
1.91075000 GHz

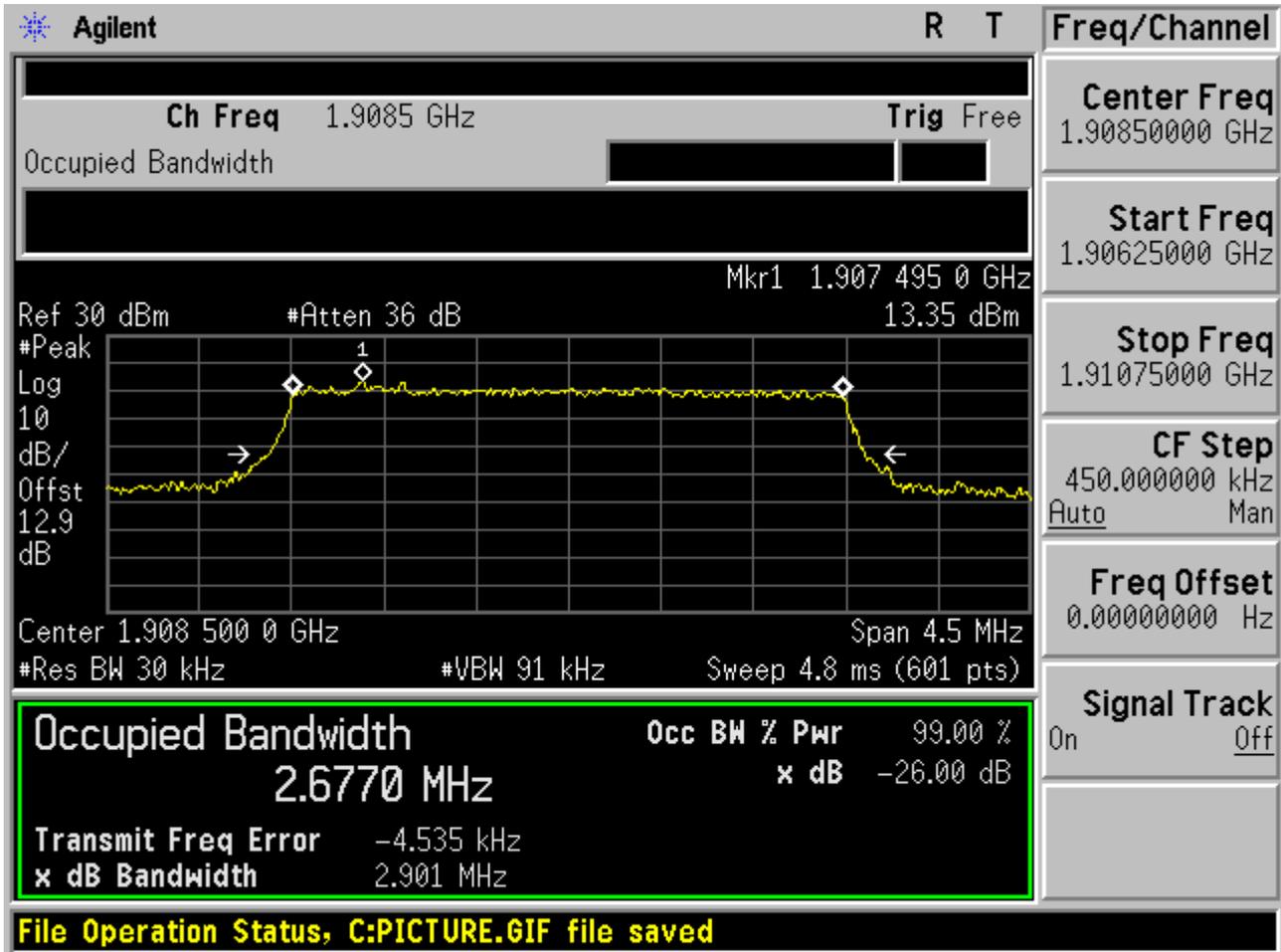
CF Step
450.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off



2.2.2.3.4 16QAM /full RBs

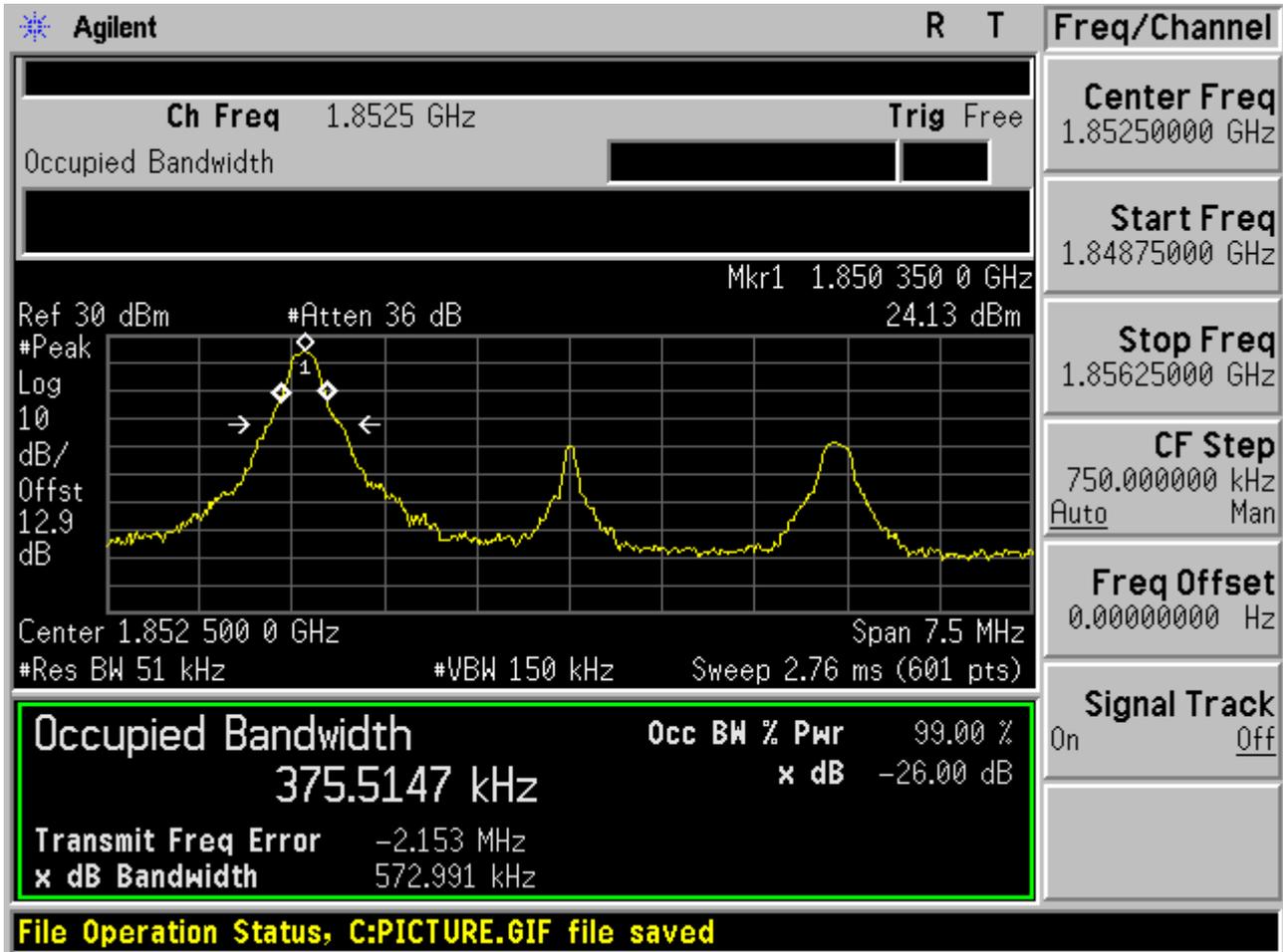




2.2.3 Channel Bandwidth = 5 MHz

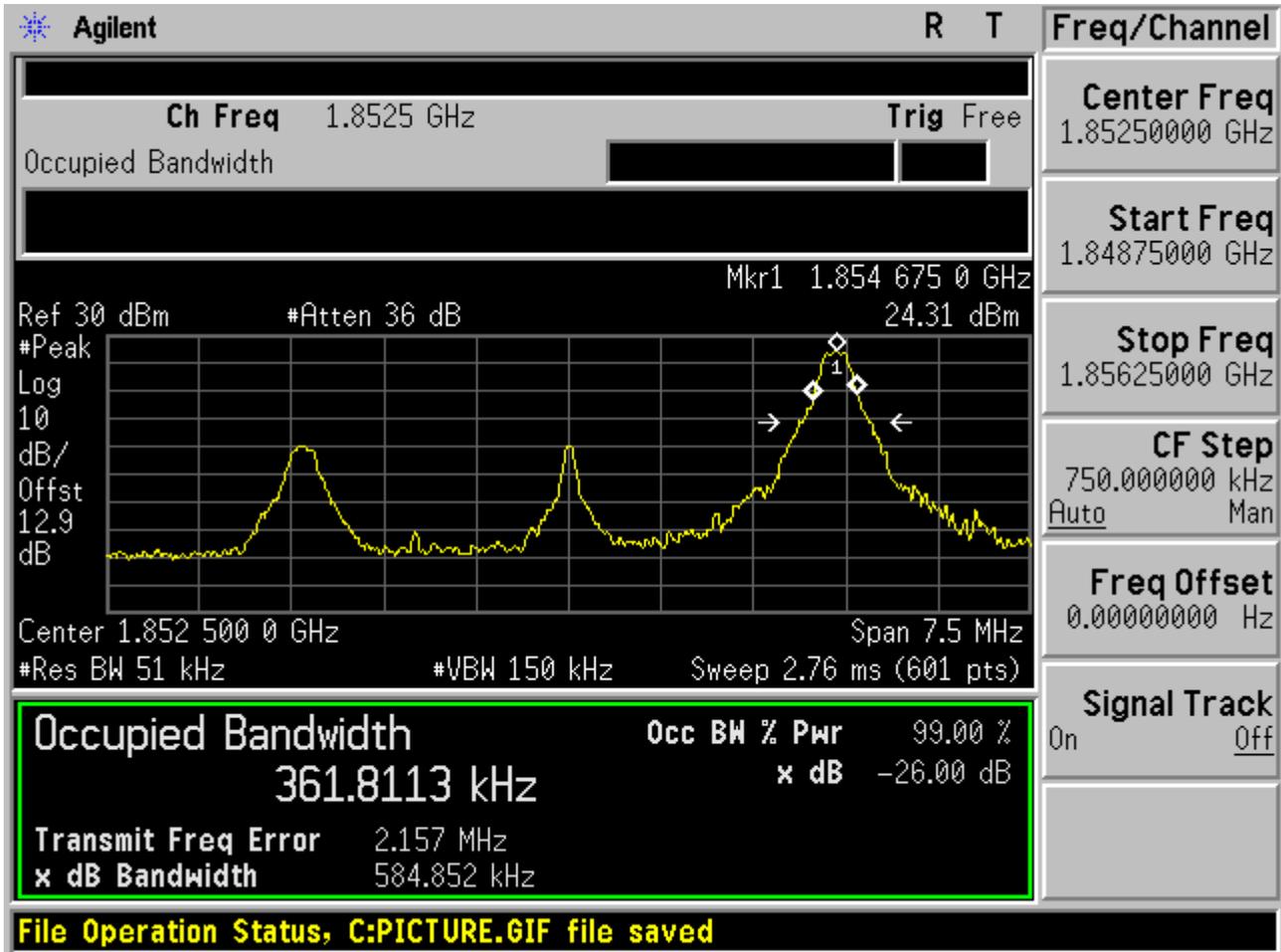
2.2.3.1 Channel =B

2.2.3.1.1 16QAM/1RB # 0



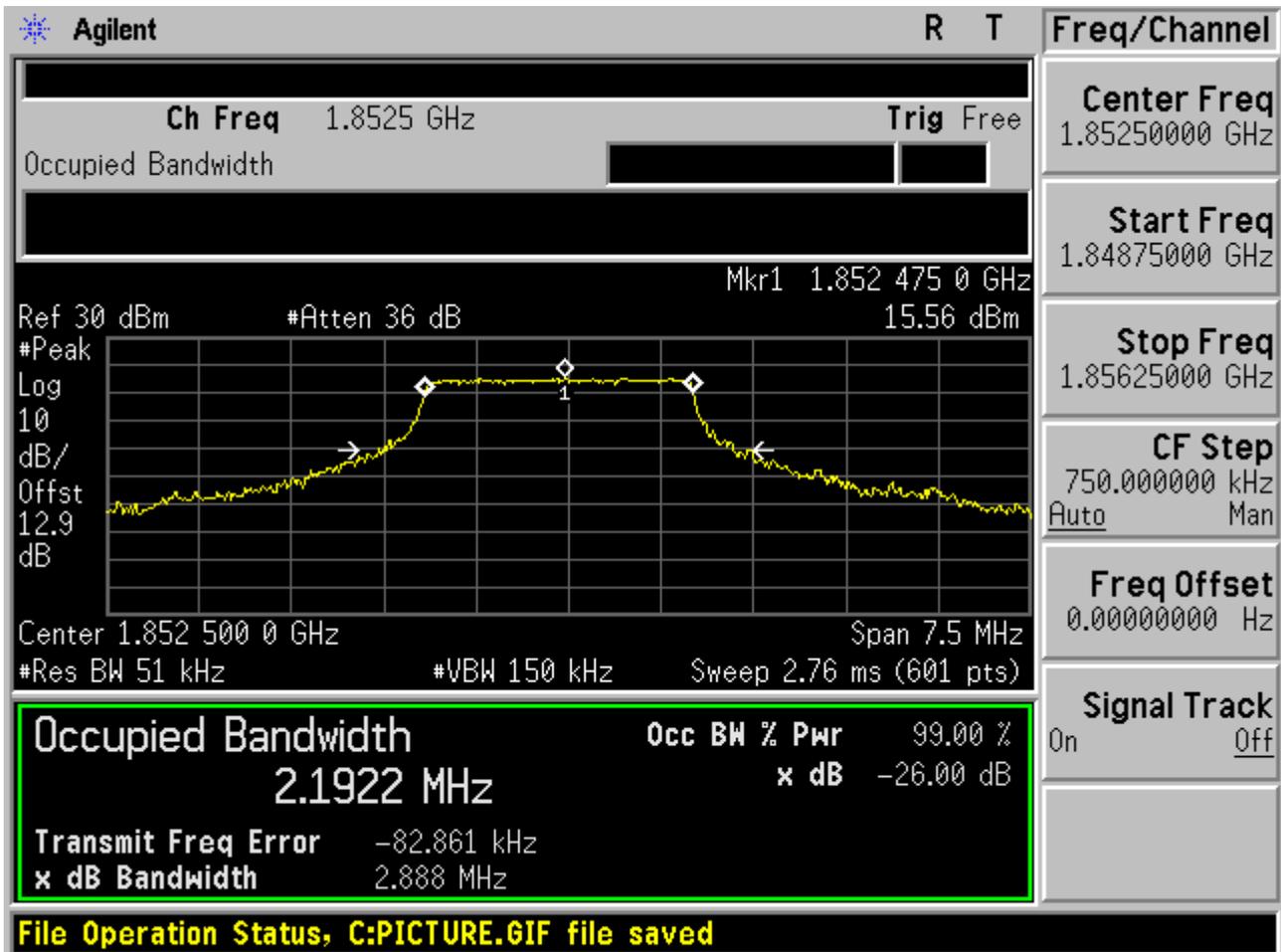


2.2.3.1.2 16QAM /1RB # max



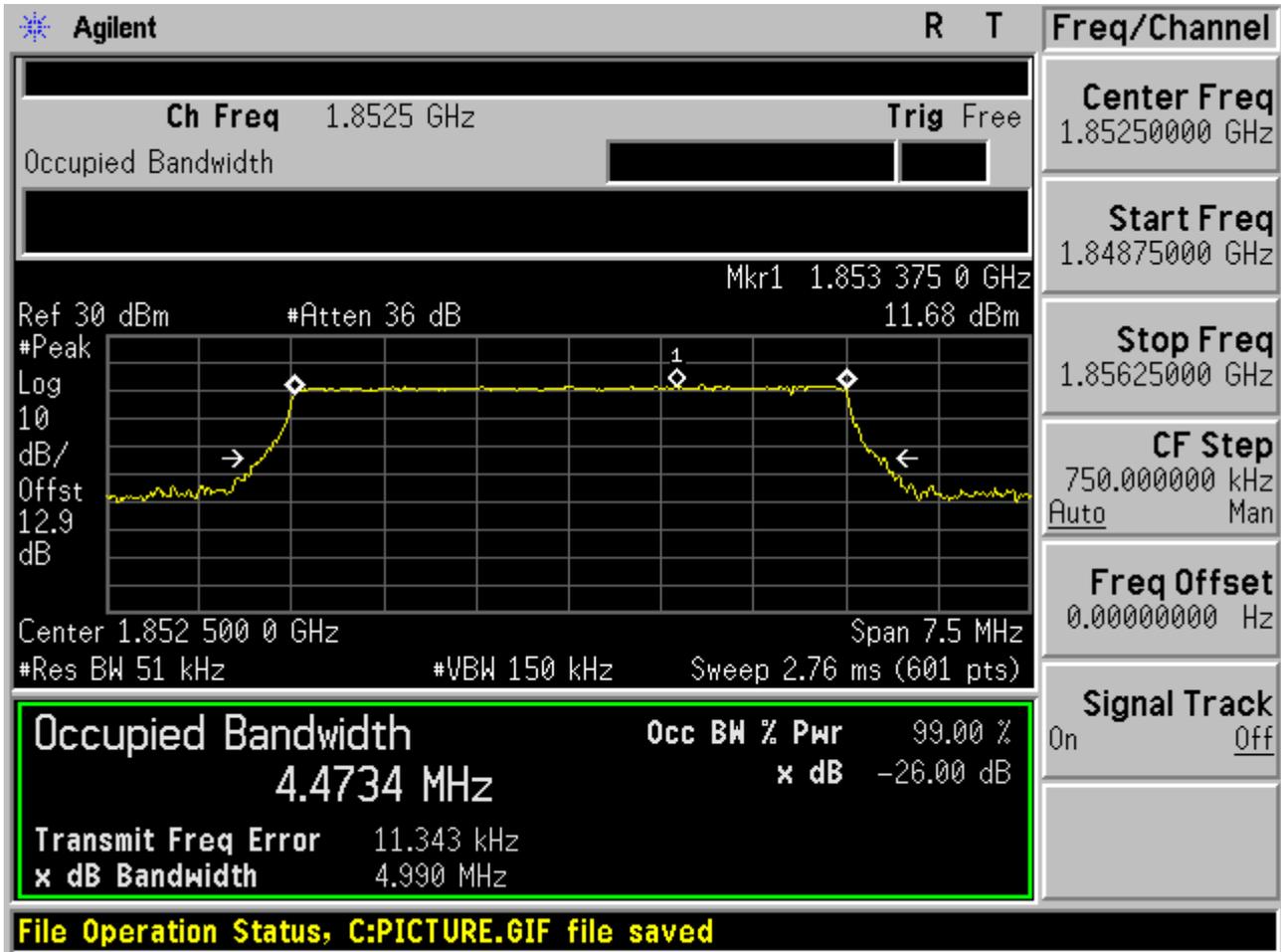


2.2.3.1.3 16QAM /non-1RB #mid/2





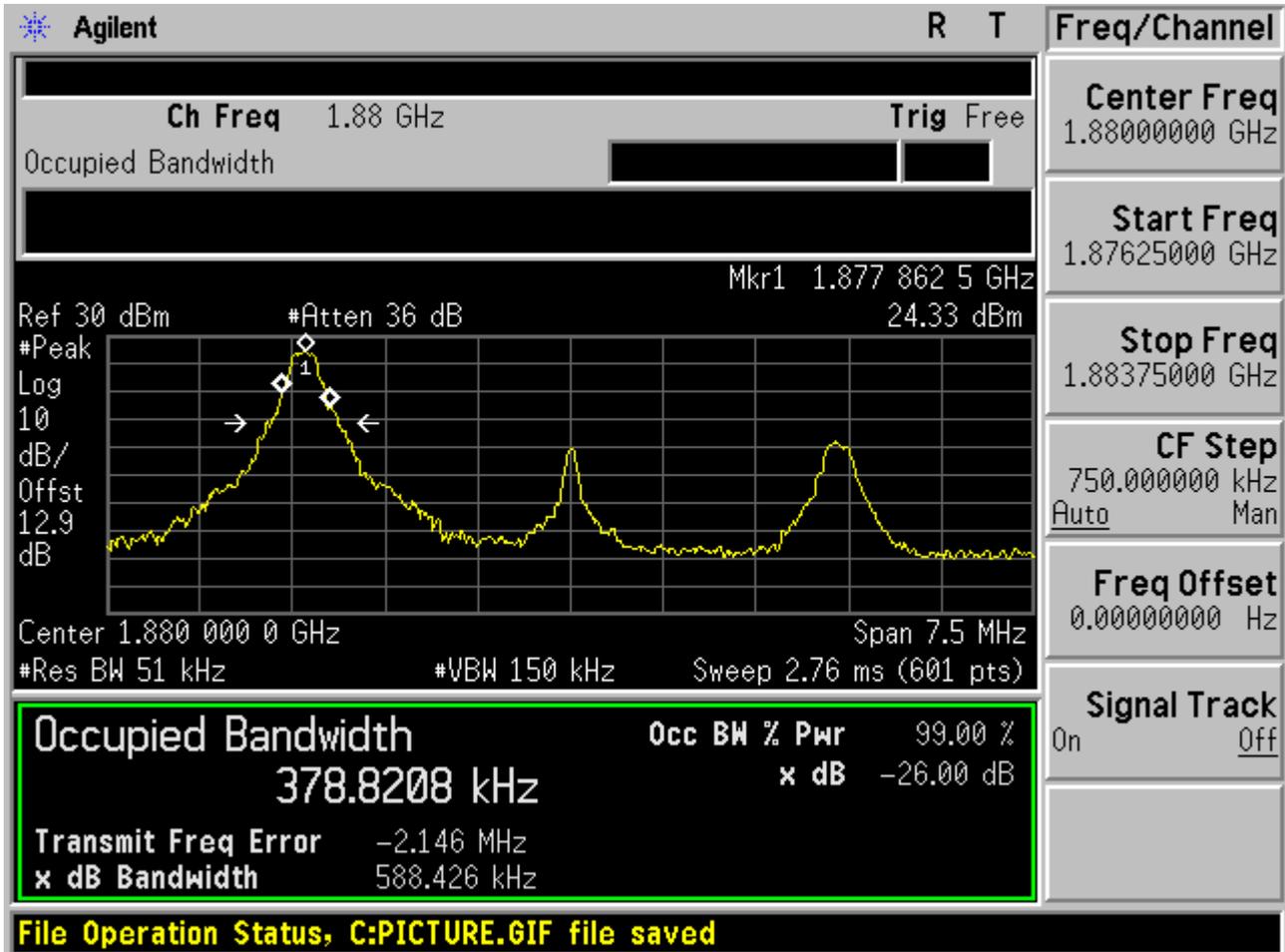
2.2.3.1.4 16QAM /full RBs





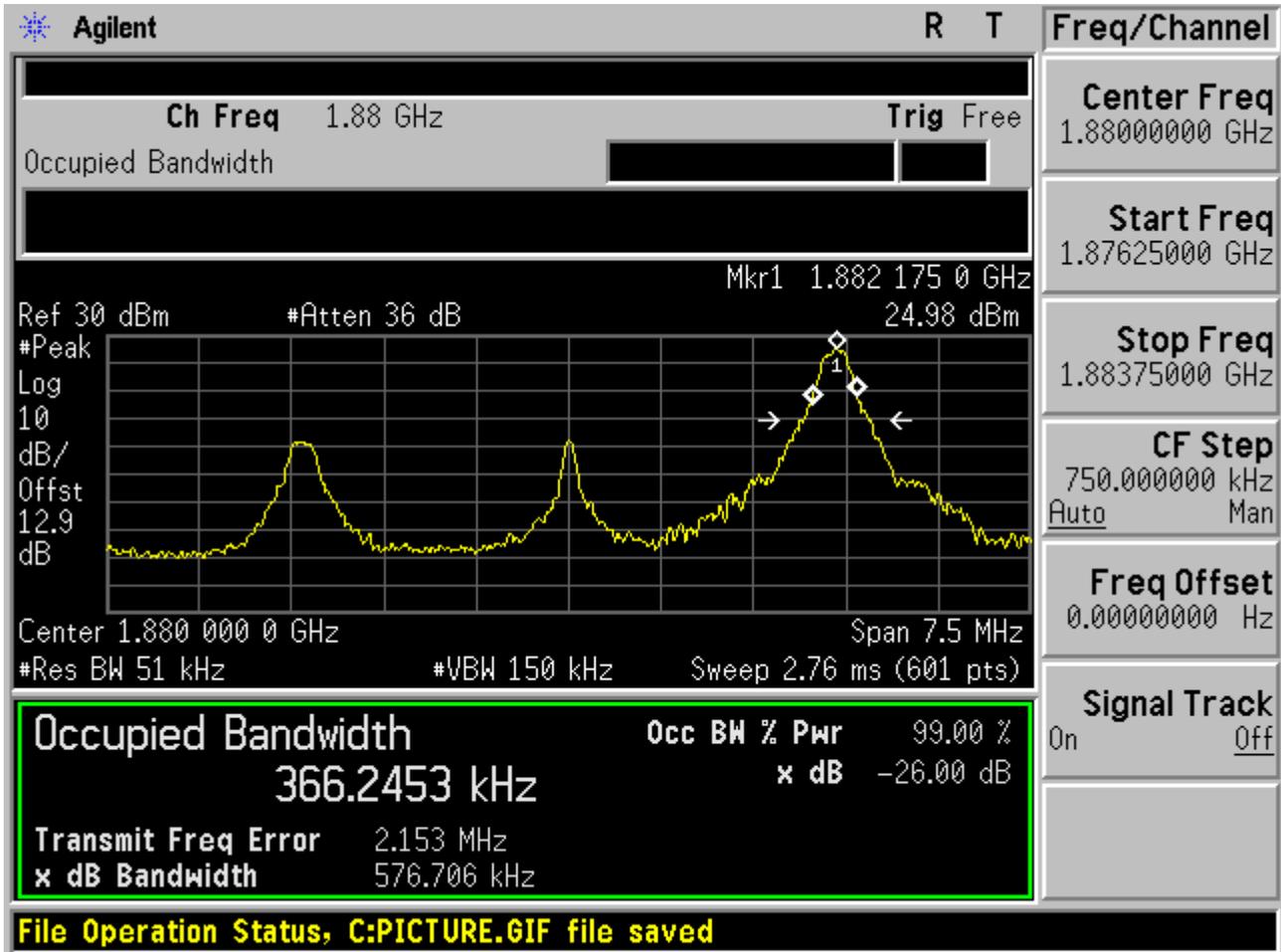
2.2.3.2 Channel =M

2.2.3.2.1 16QAM/1RB # 0



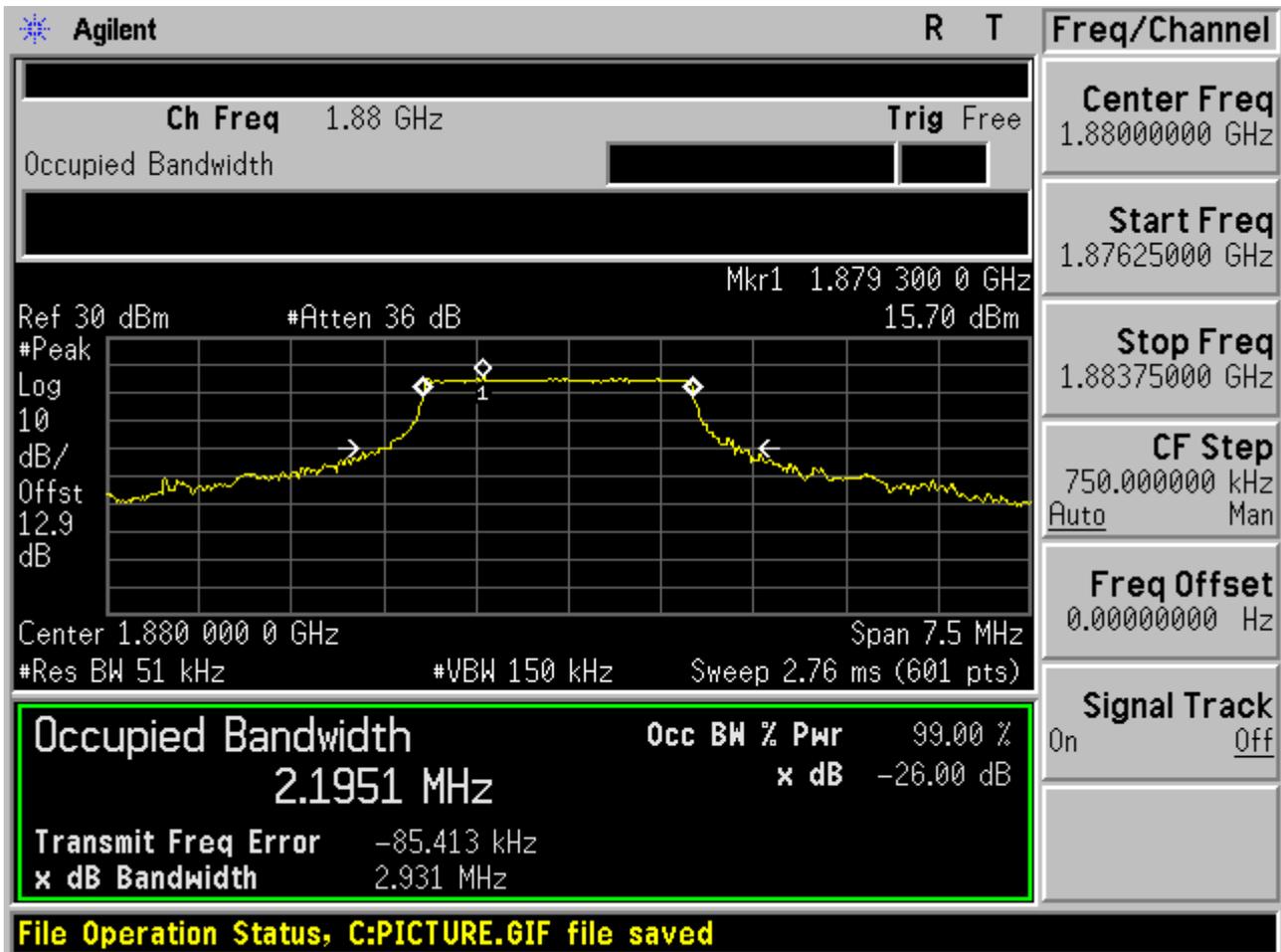


2.2.3.2.2 16QAM /1RB # max



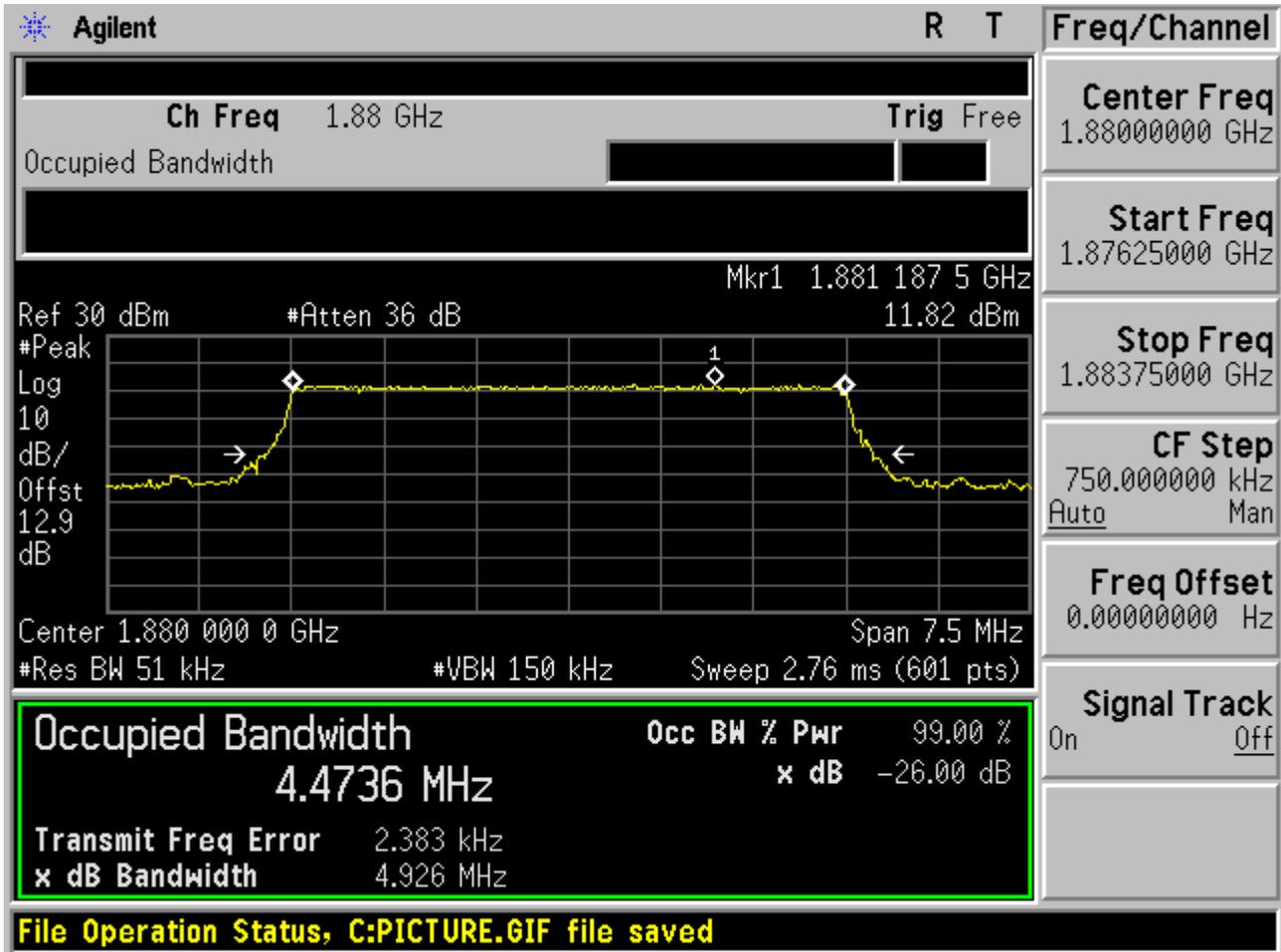


2.2.3.2.3 16QAM /non-1RB #mid/2





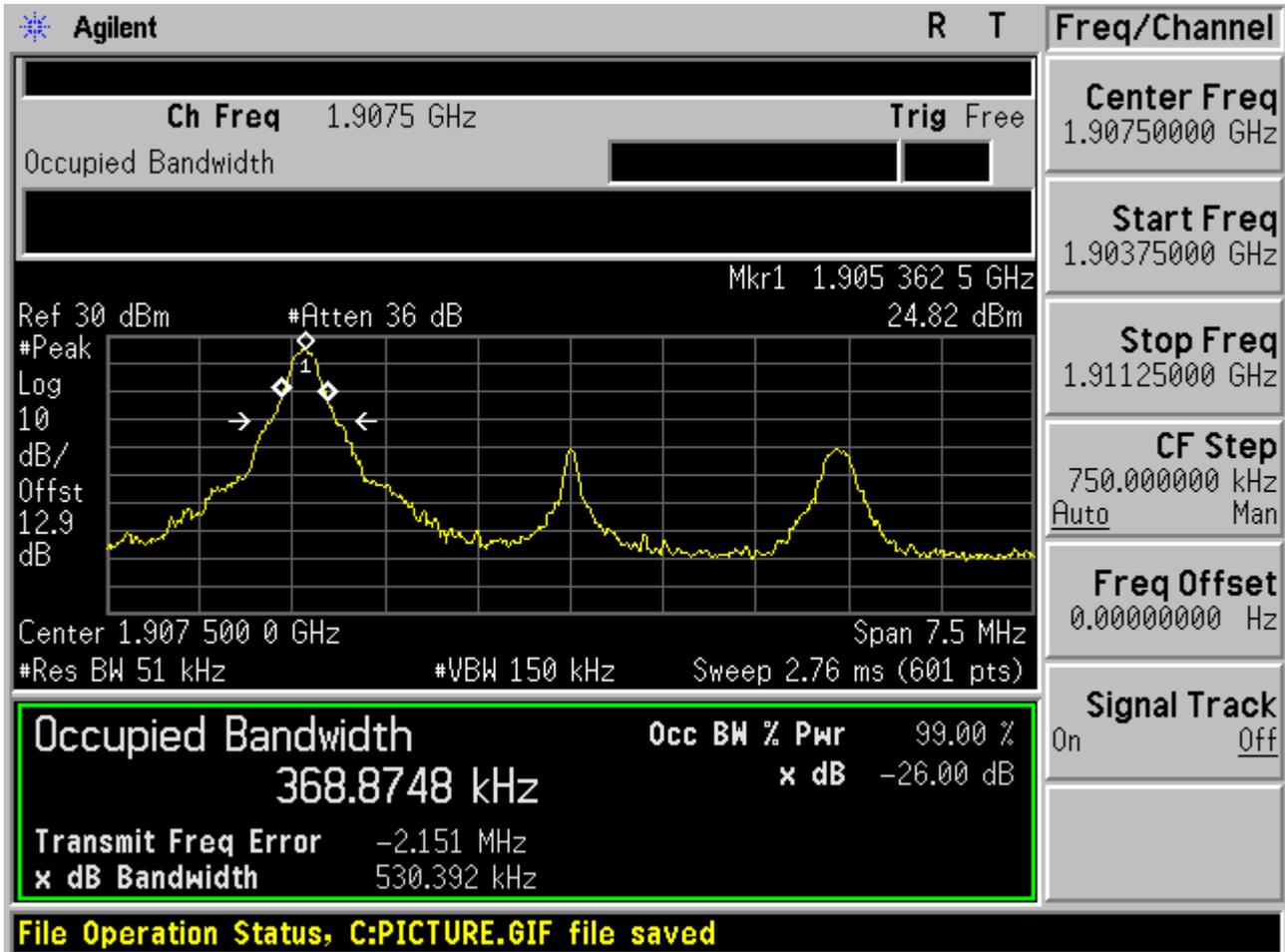
2.2.3.2.4 16QAM /full RBs





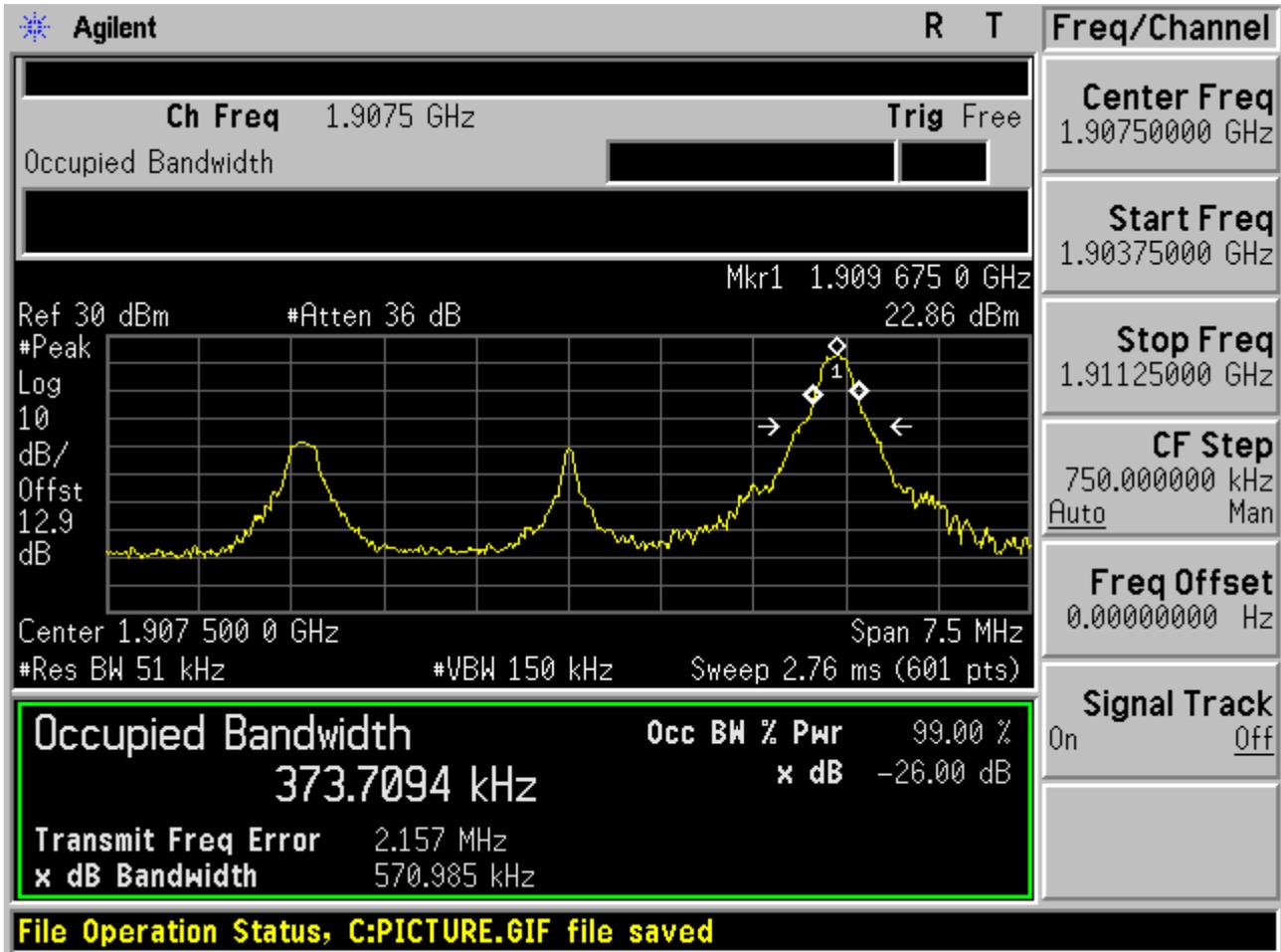
2.2.3.3 Channel = T

2.2.3.3.1 16QAM/1RB # 0



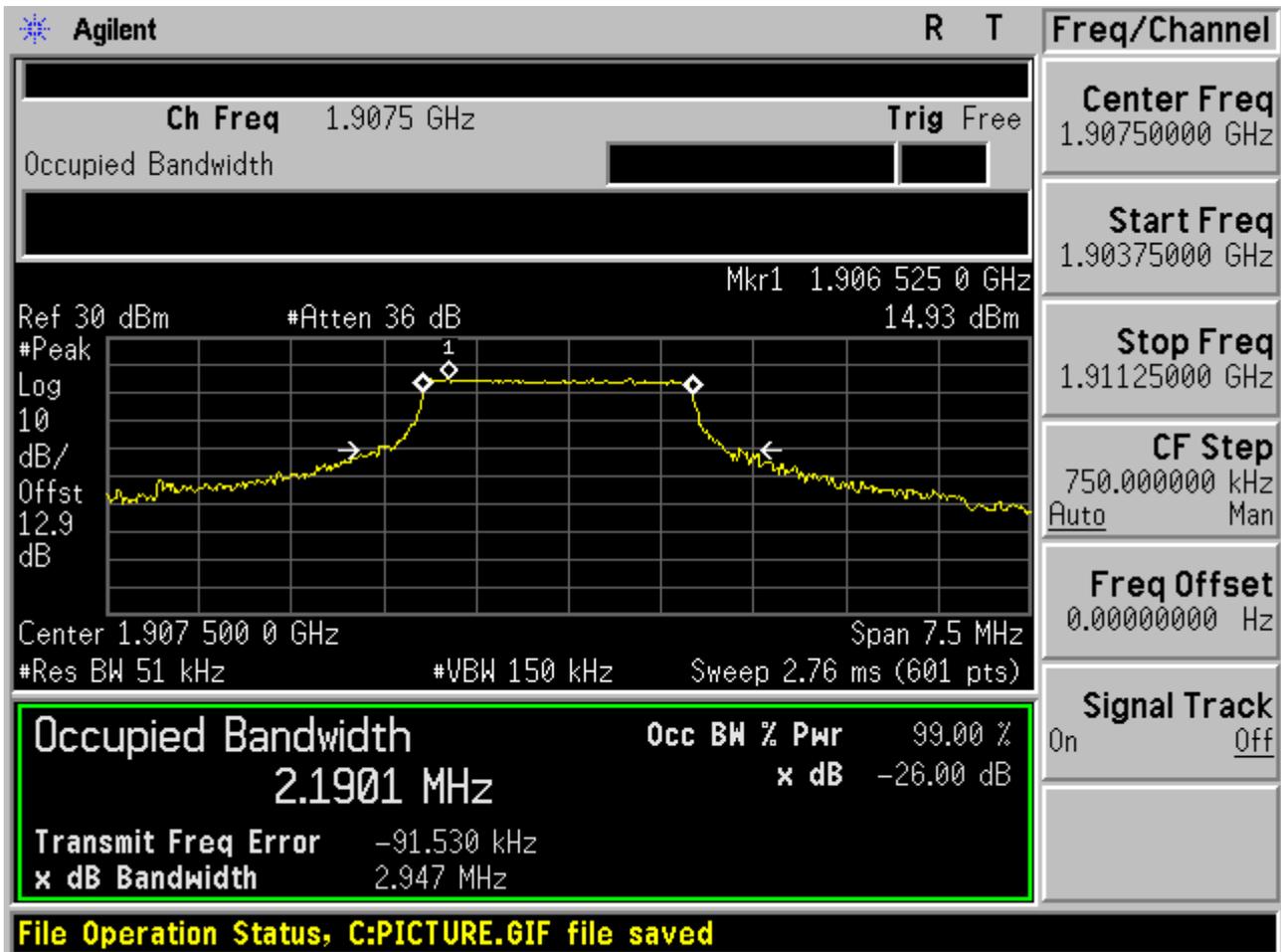


2.2.3.3.2 16QAM /1RB # max



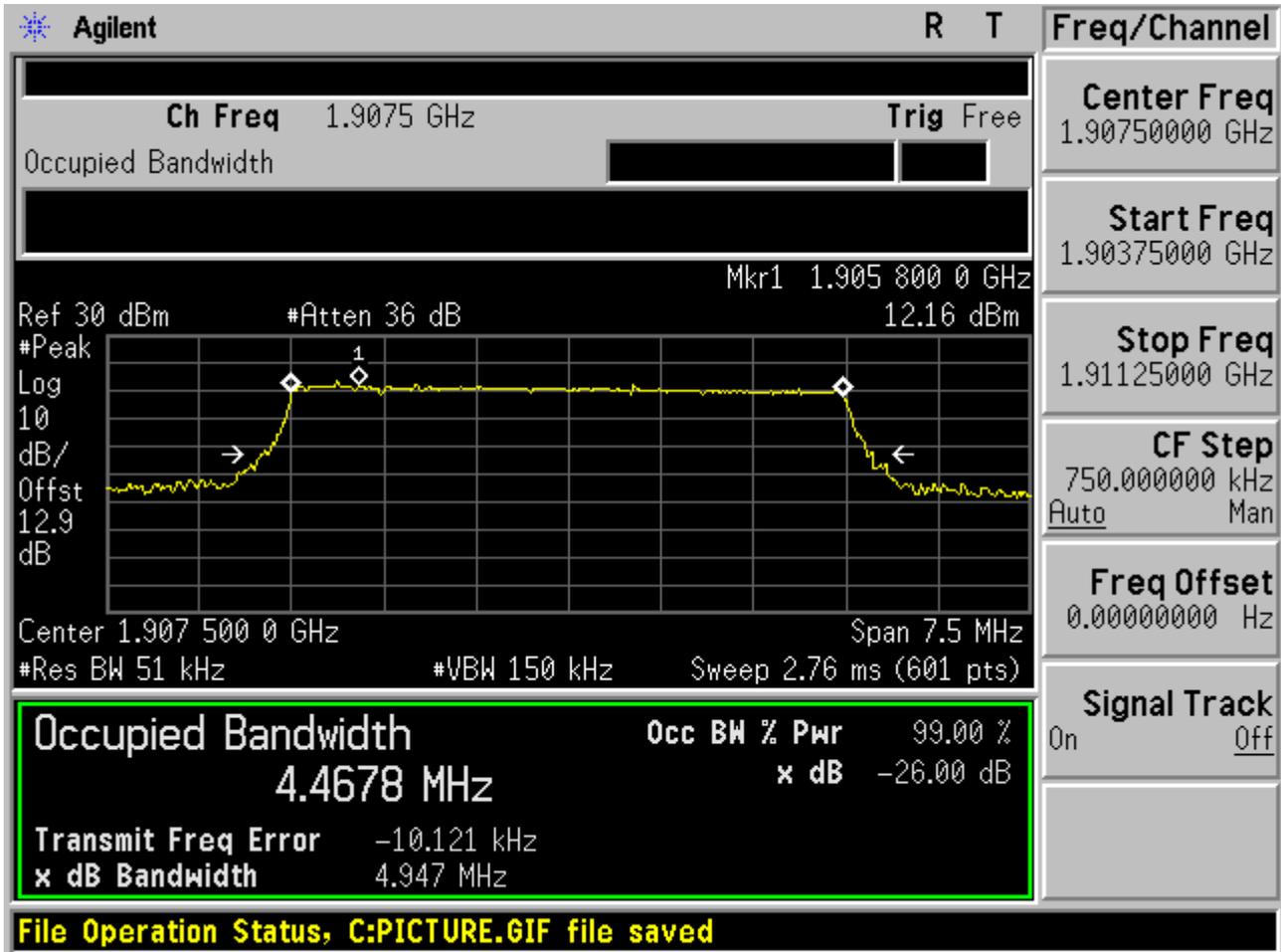


2.2.3.3.3 16QAM /non-1RB #mid/2





2.2.3.3.4 16QAM /full RBs

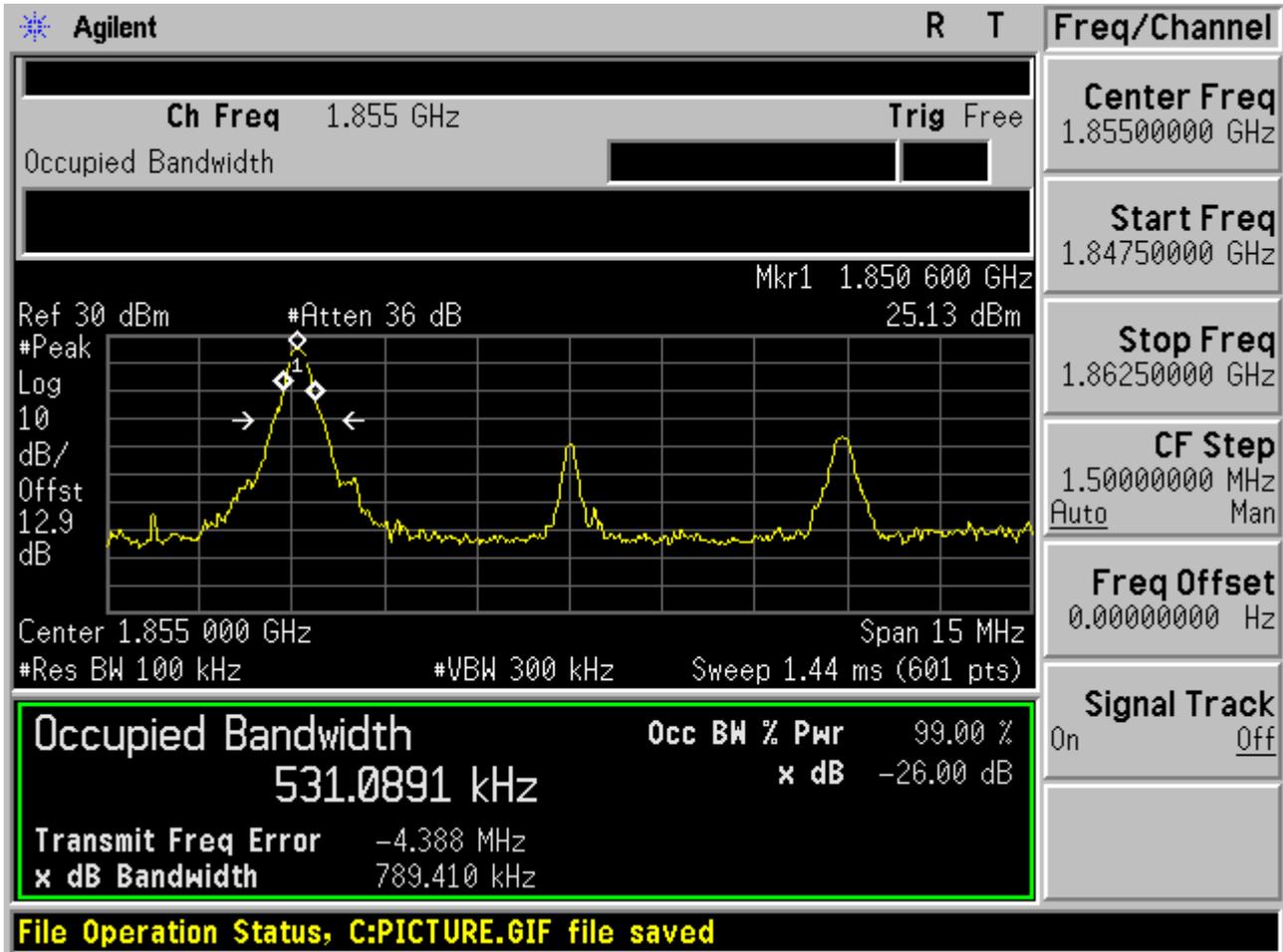




2.2.4 Channel Bandwidth = 10 MHz

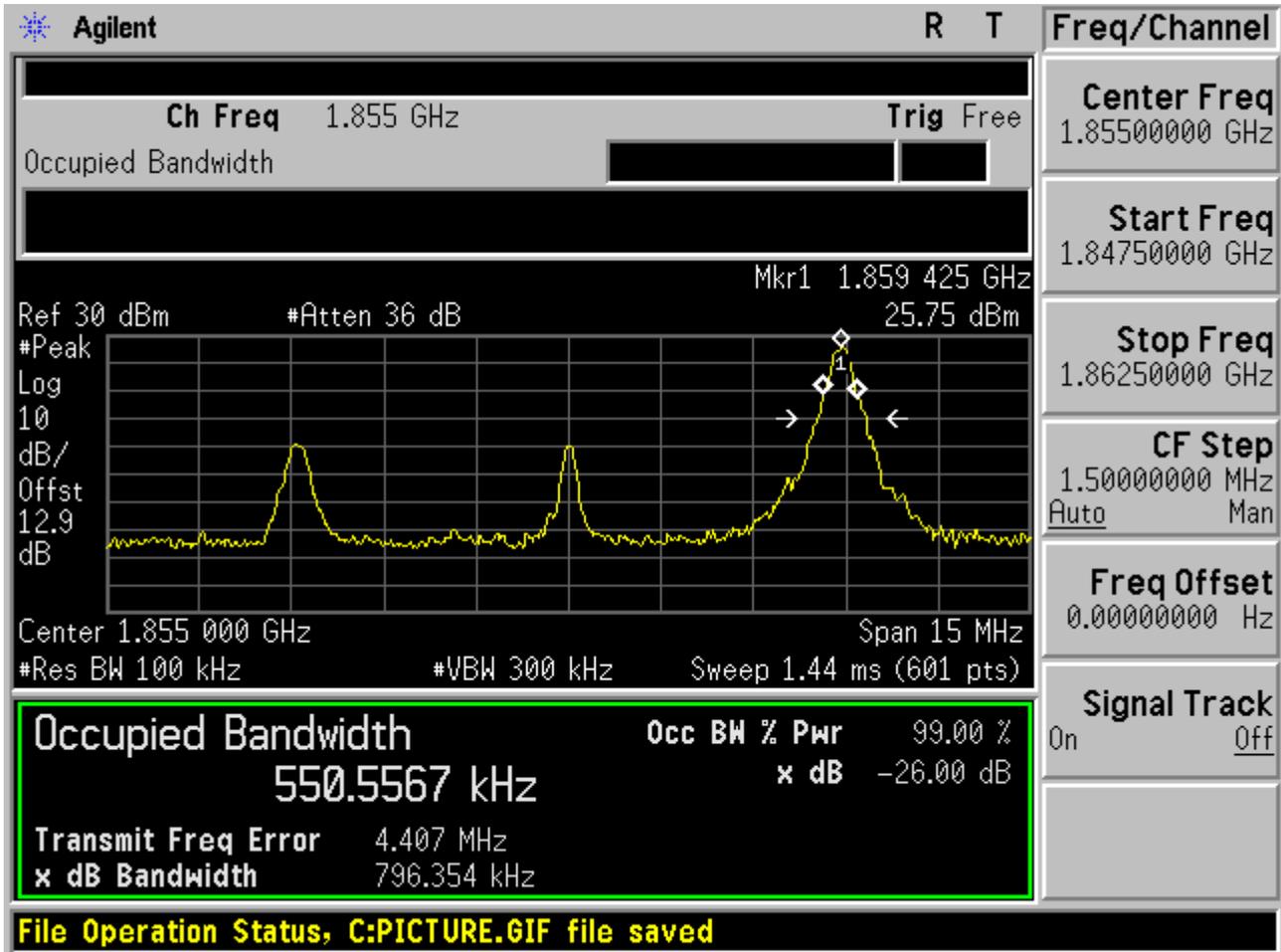
2.2.4.1 Channel = B

2.2.4.1.1 16QAM/1RB # 0



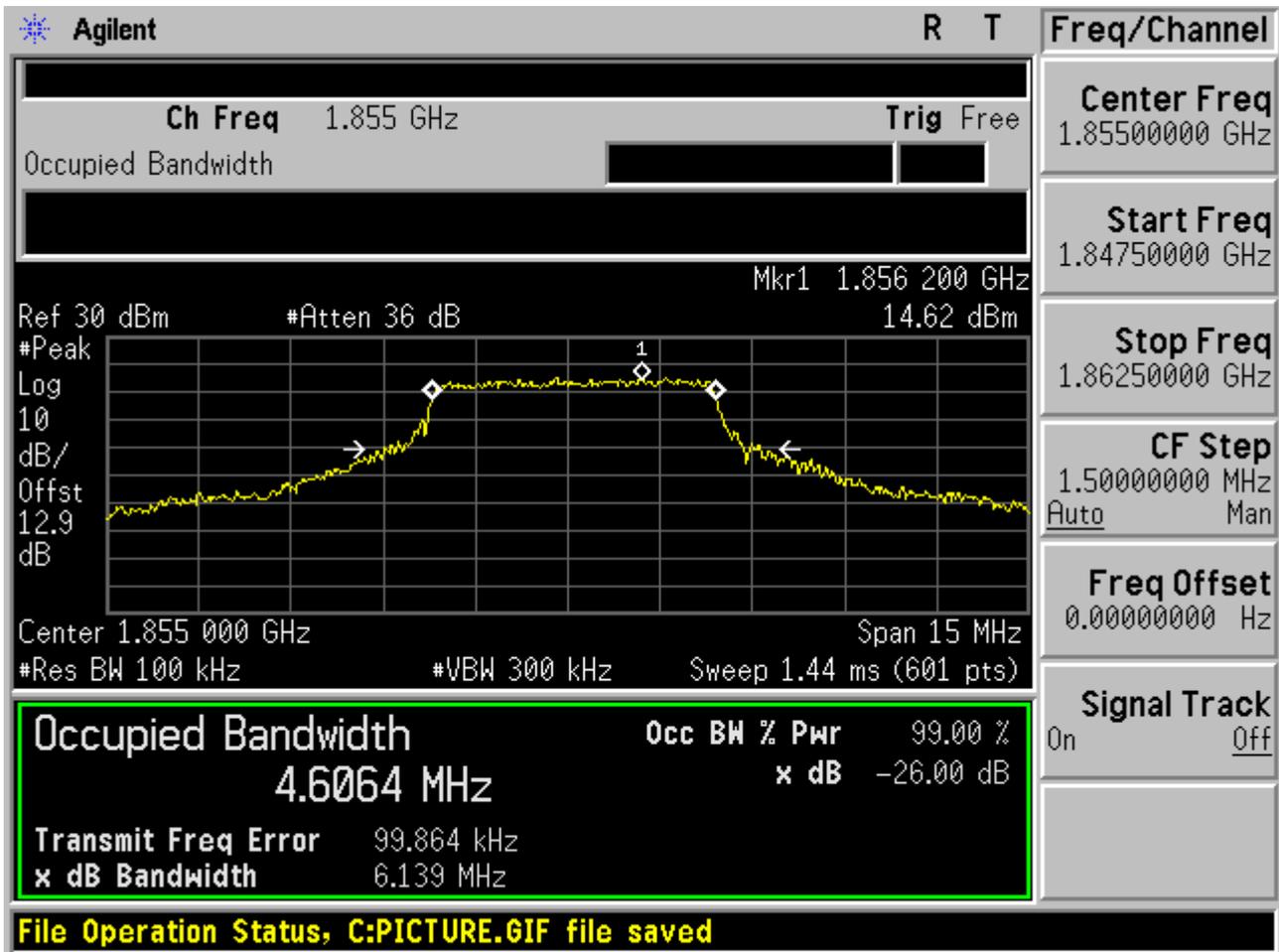


2.2.4.1.2 16QAM /1RB # max



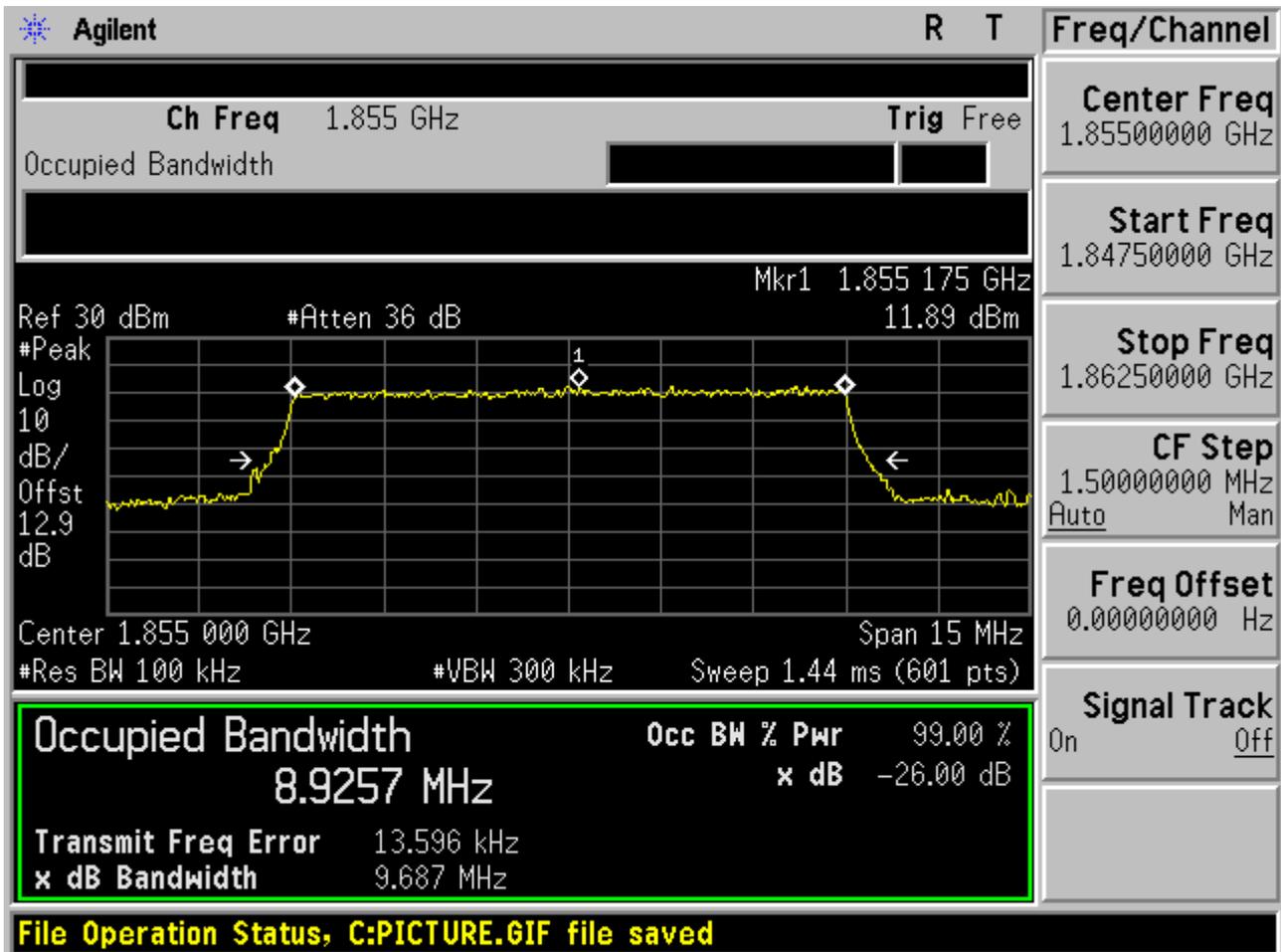


2.2.4.1.3 16QAM /non-1RB #mid/2





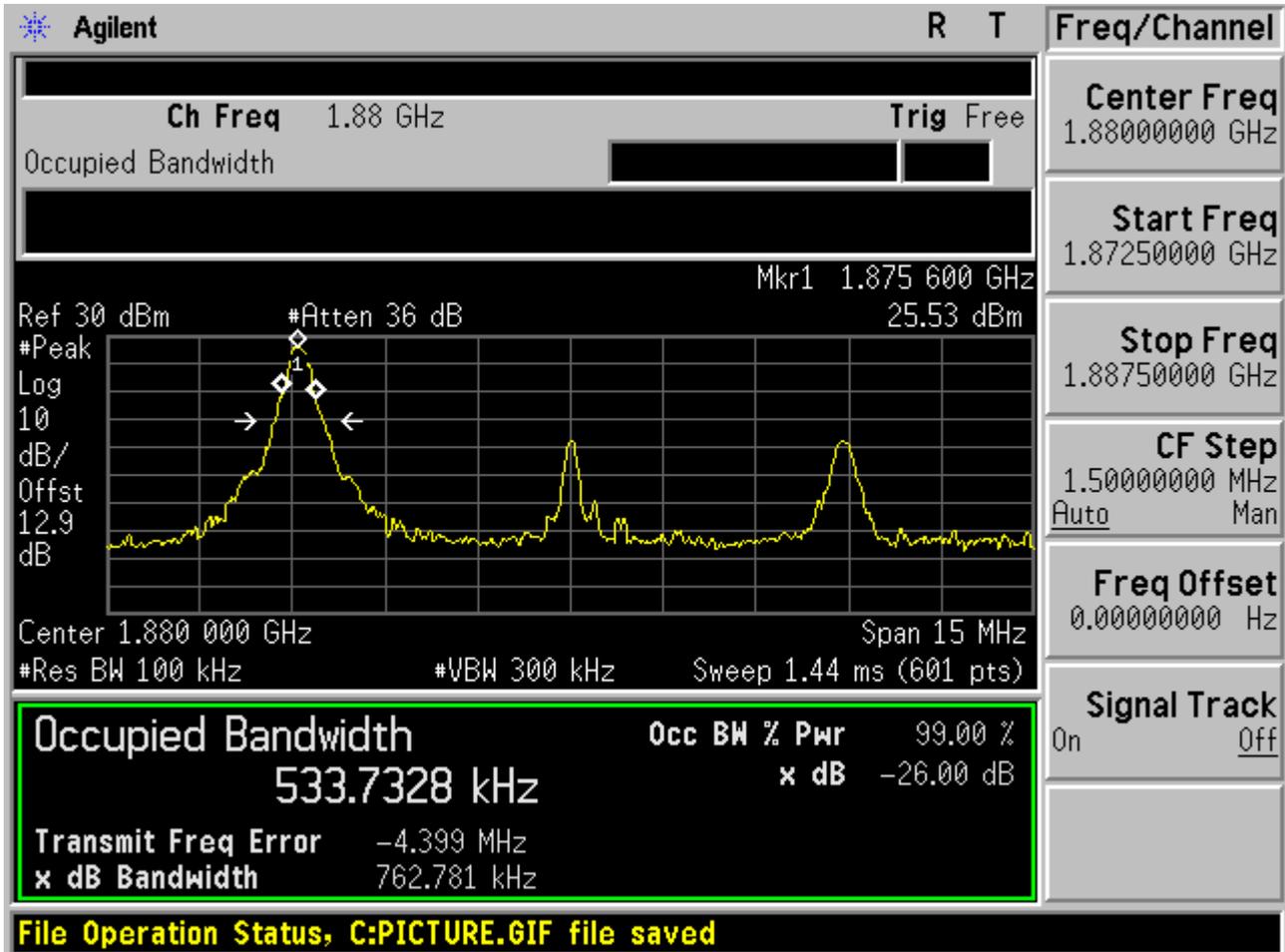
2.2.4.1.4 16QAM /full RBs





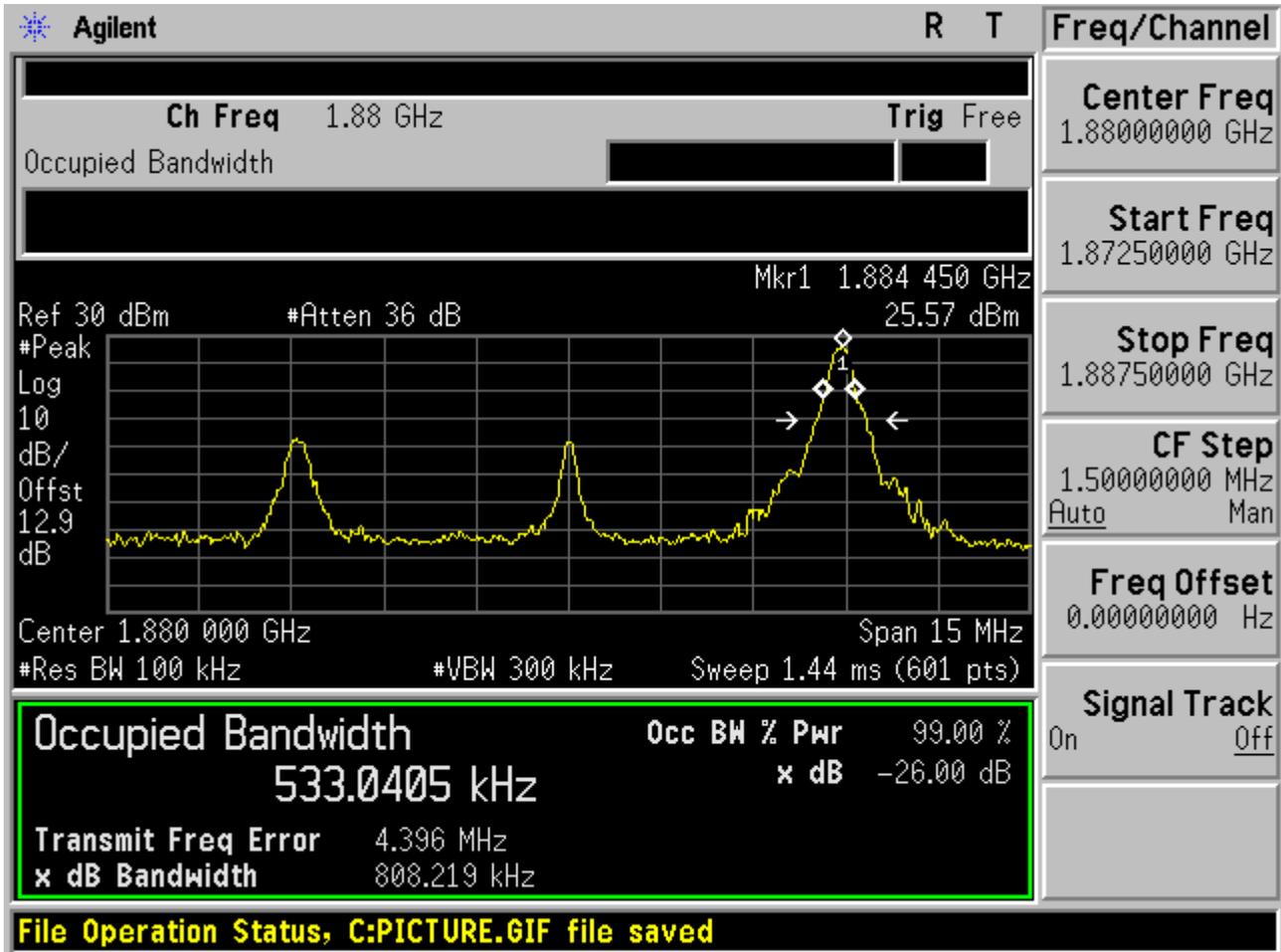
2.2.4.2 Channel =M

2.2.4.2.1 16QAM/1RB # 0



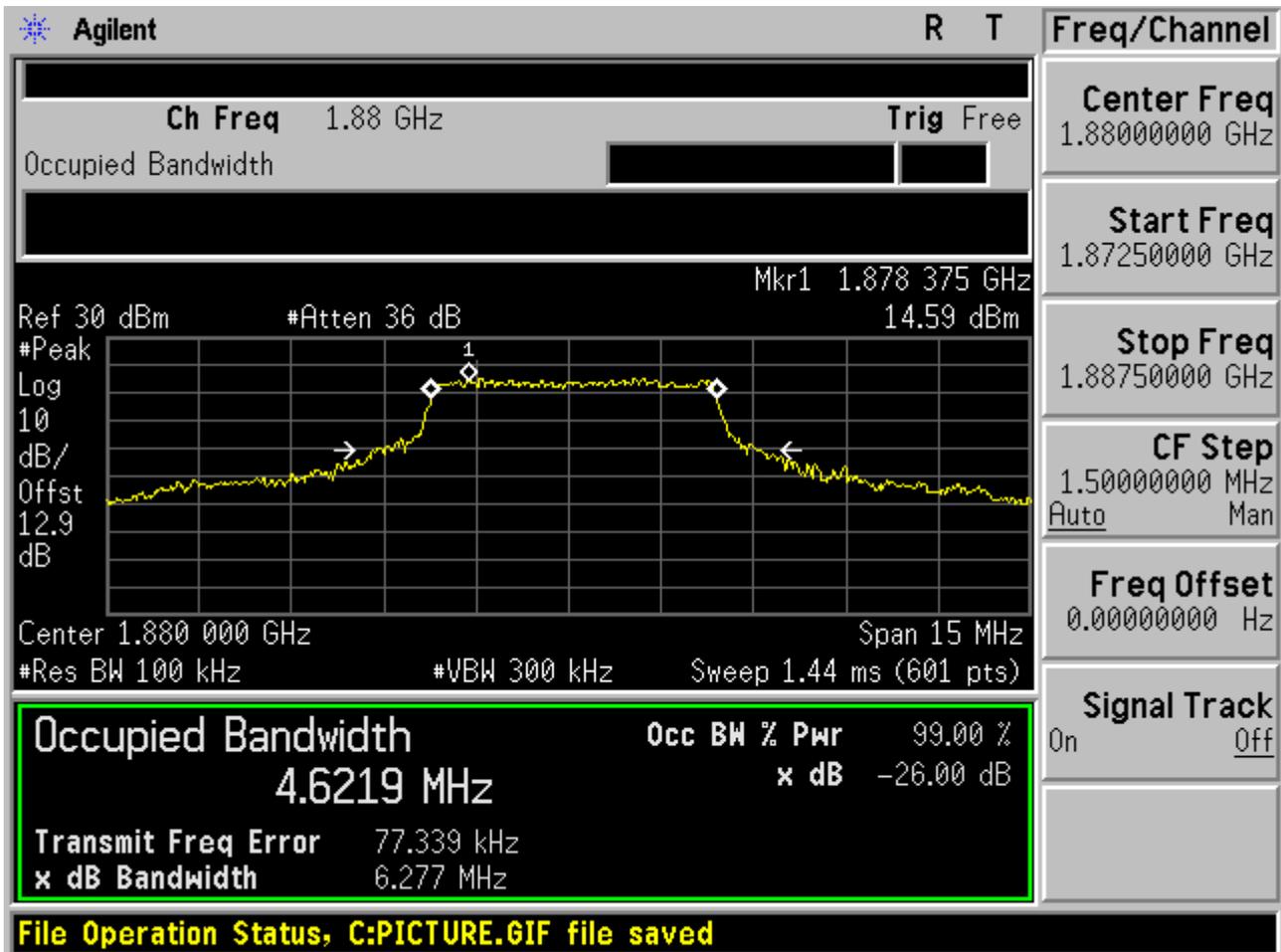


2.2.4.2.2 16QAM /1RB # max



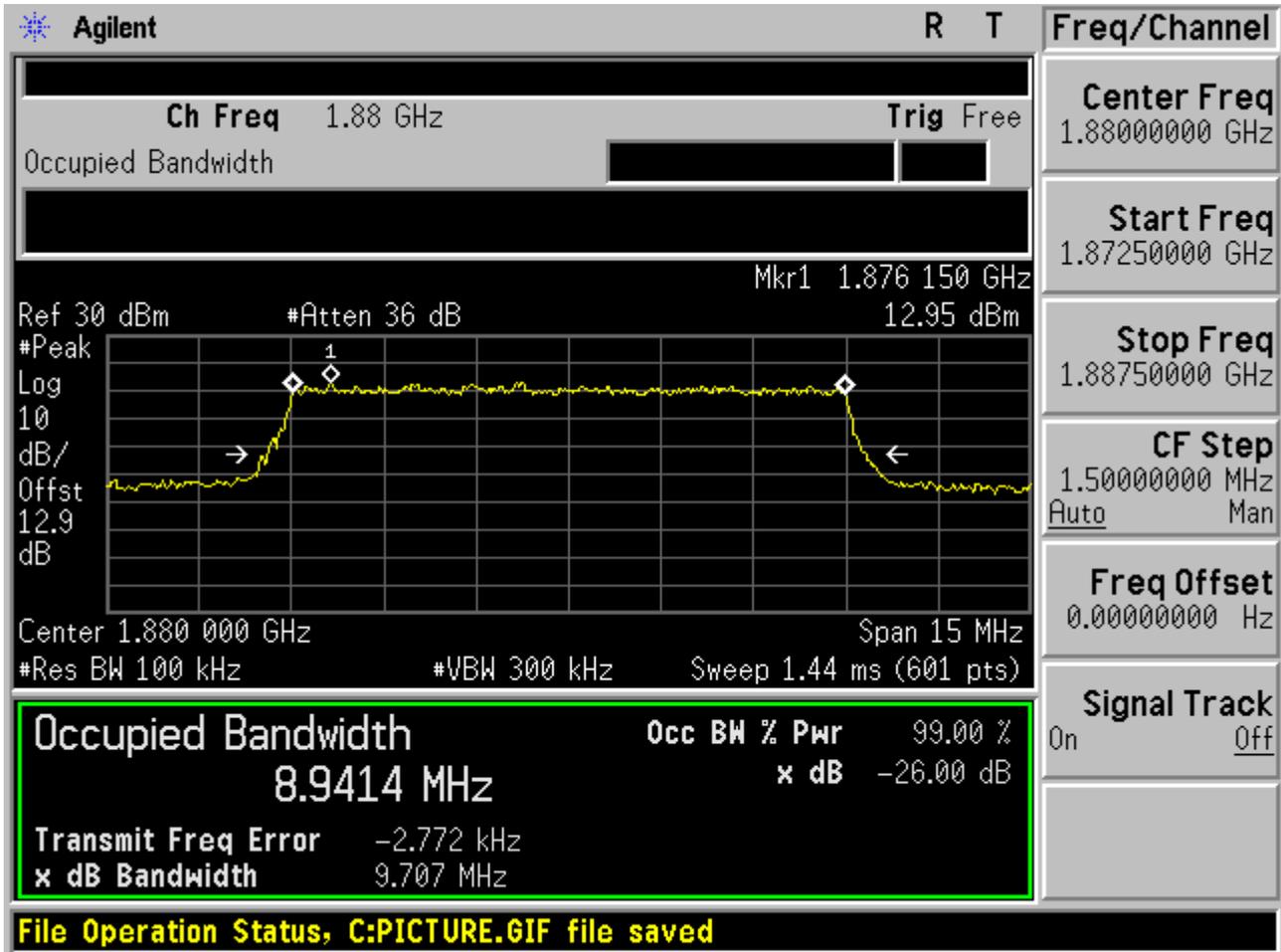


2.2.4.2.3 16QAM /non-1RB #mid/2





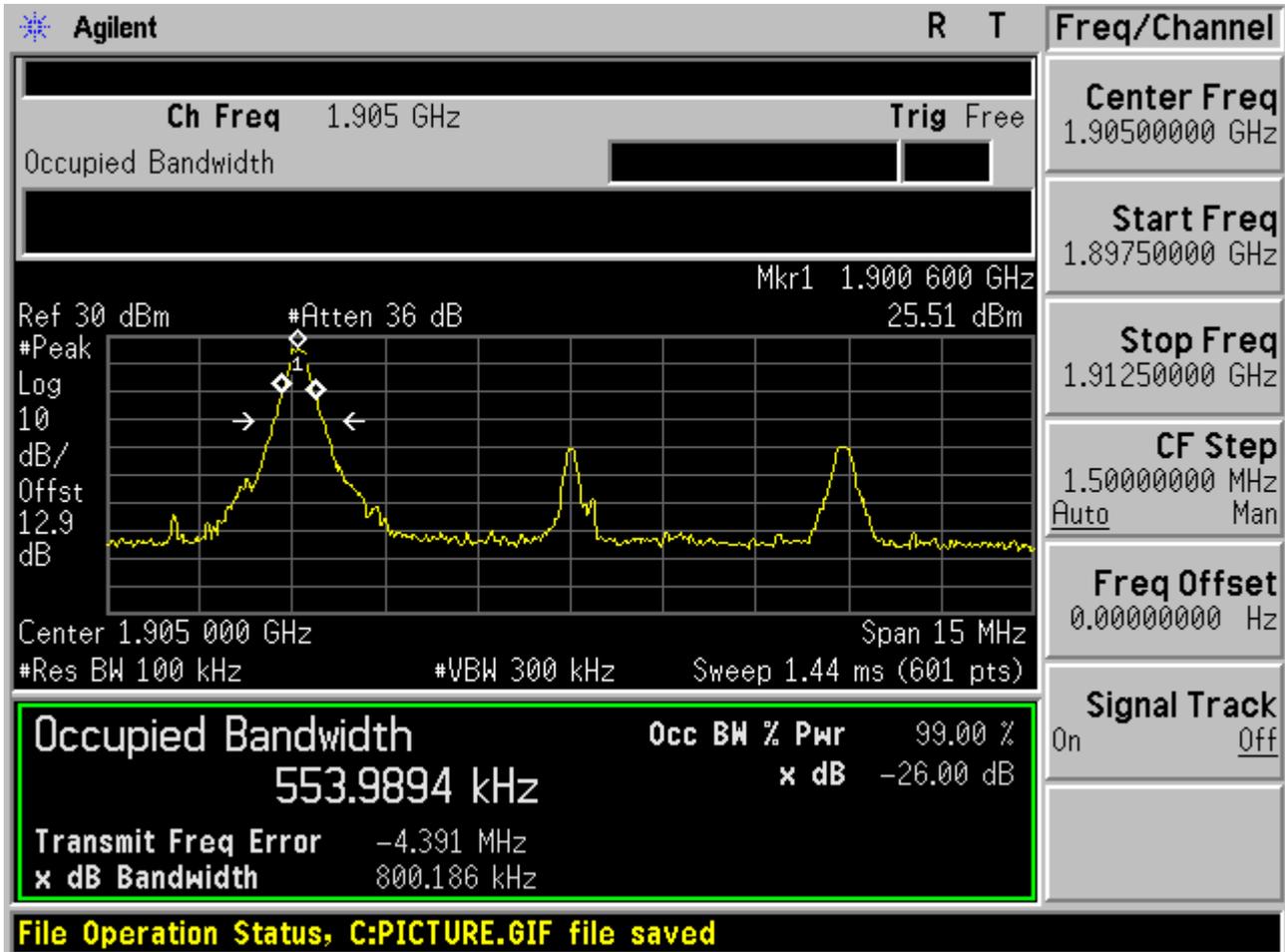
2.2.4.2.4 16QAM /full RBs





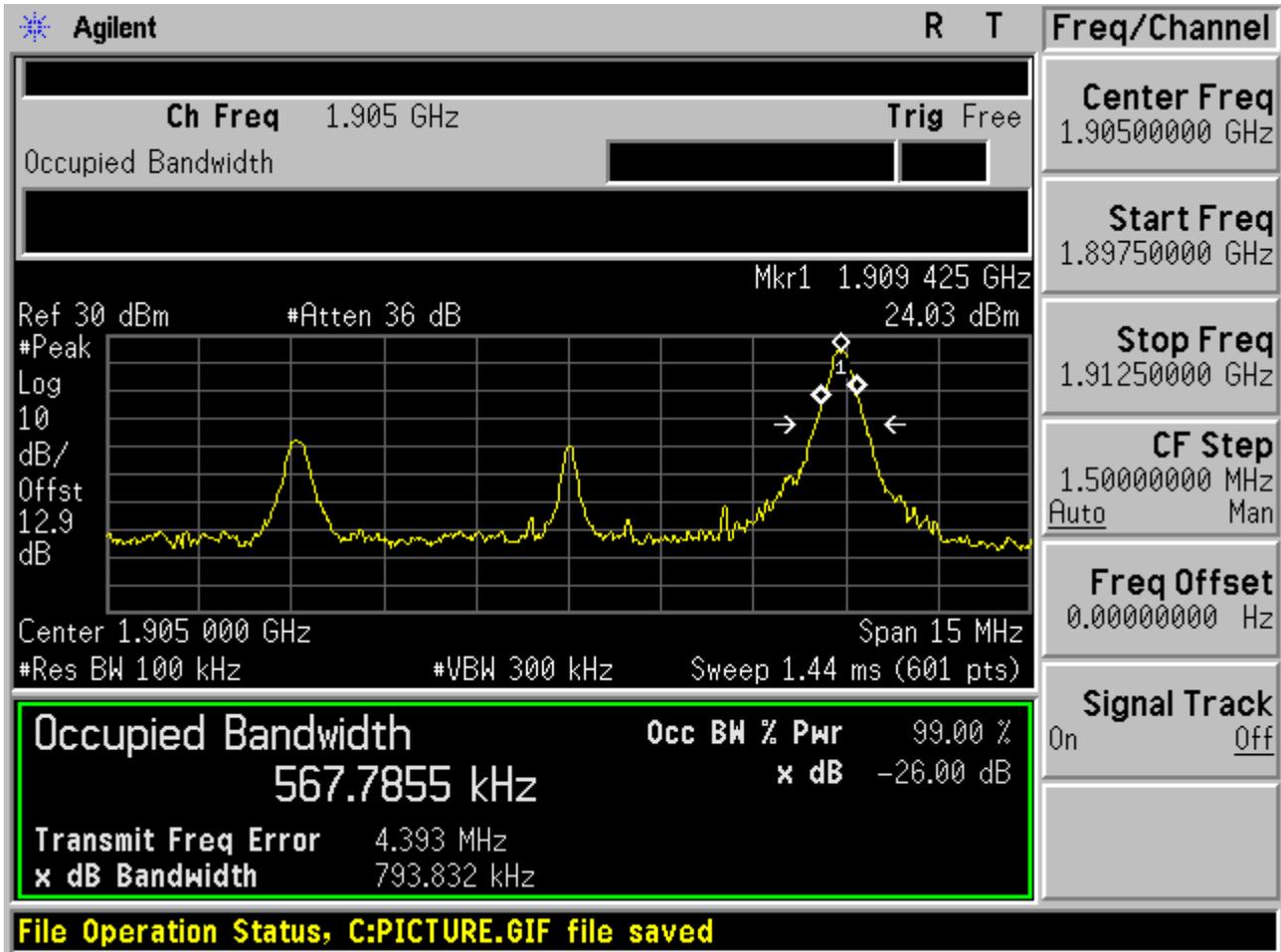
2.2.4.3 Channel = T

2.2.4.3.1 16QAM/1RB # 0



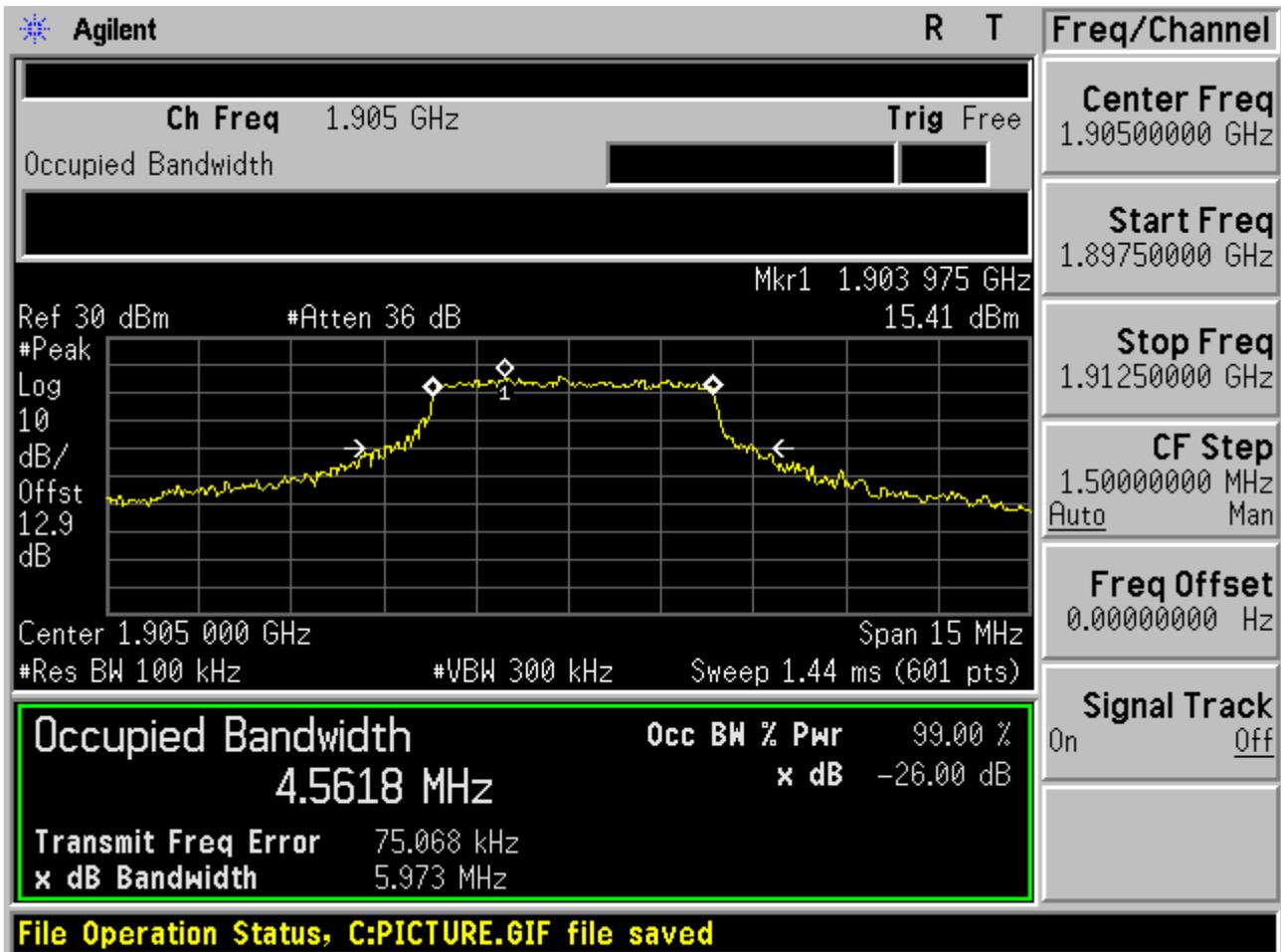


2.2.4.3.2 16QAM /1RB # max



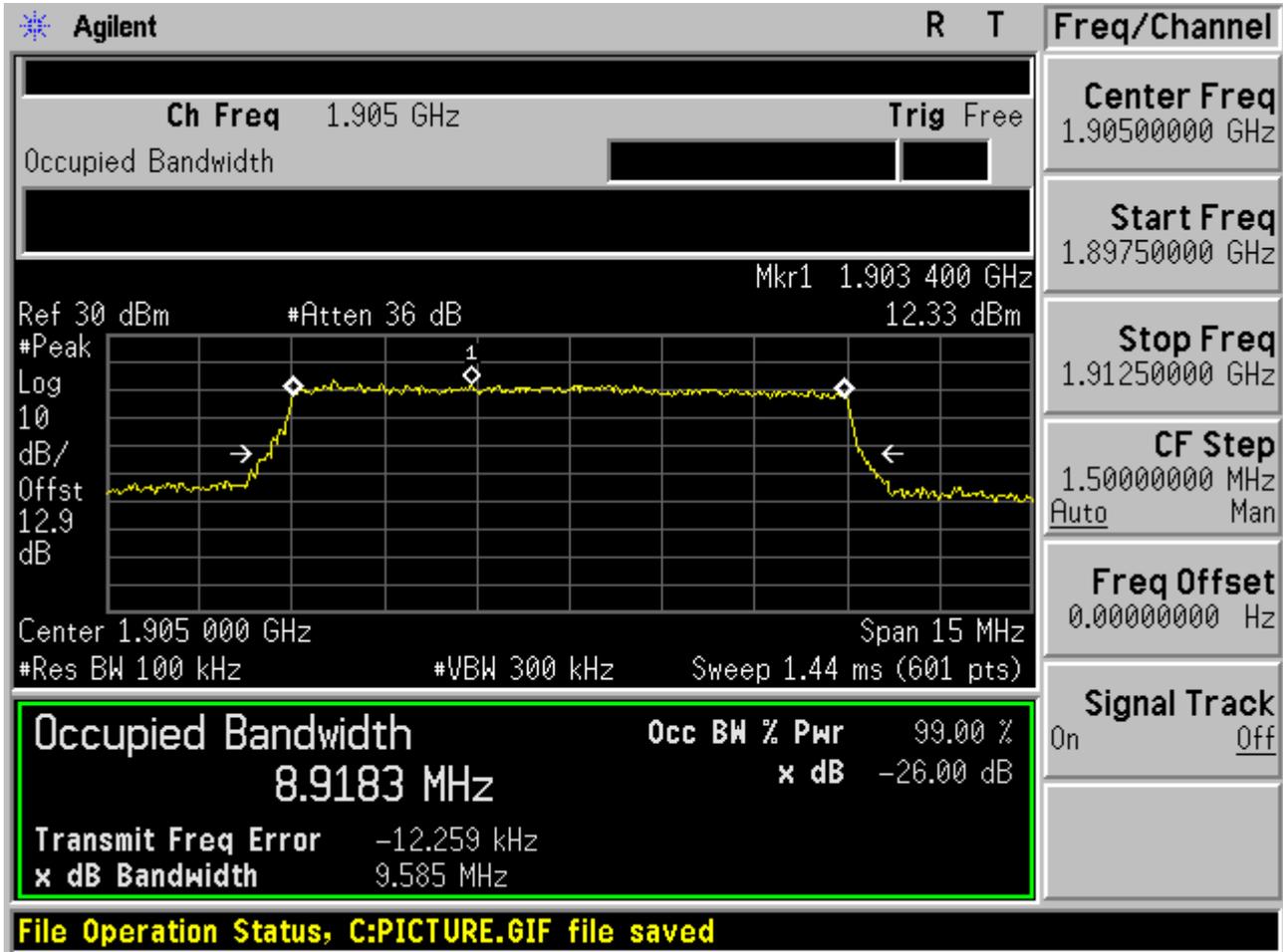


2.2.4.3.3 16QAM /non-1RB #mid/2



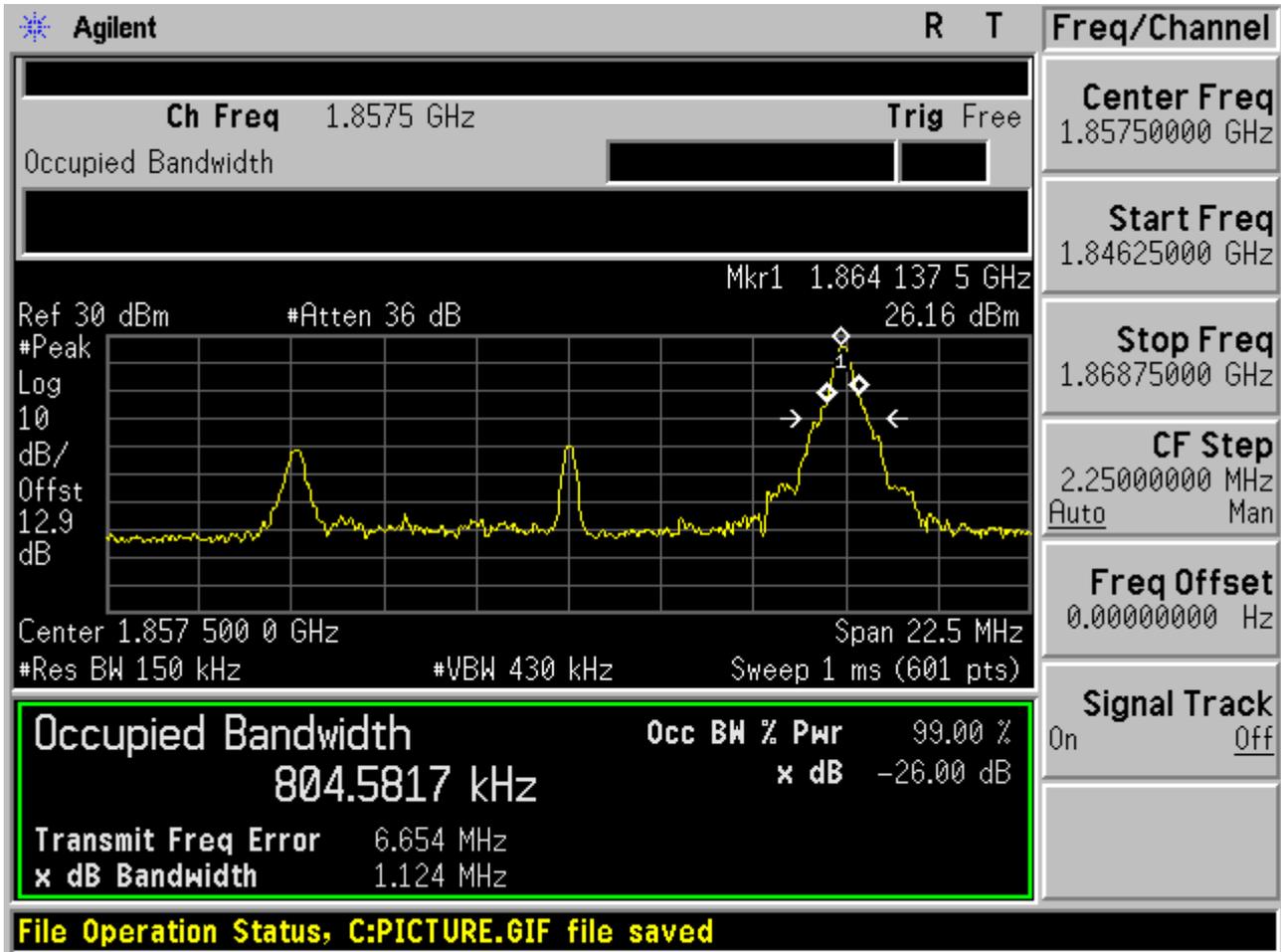


2.2.4.3.4 16QAM /full RBs



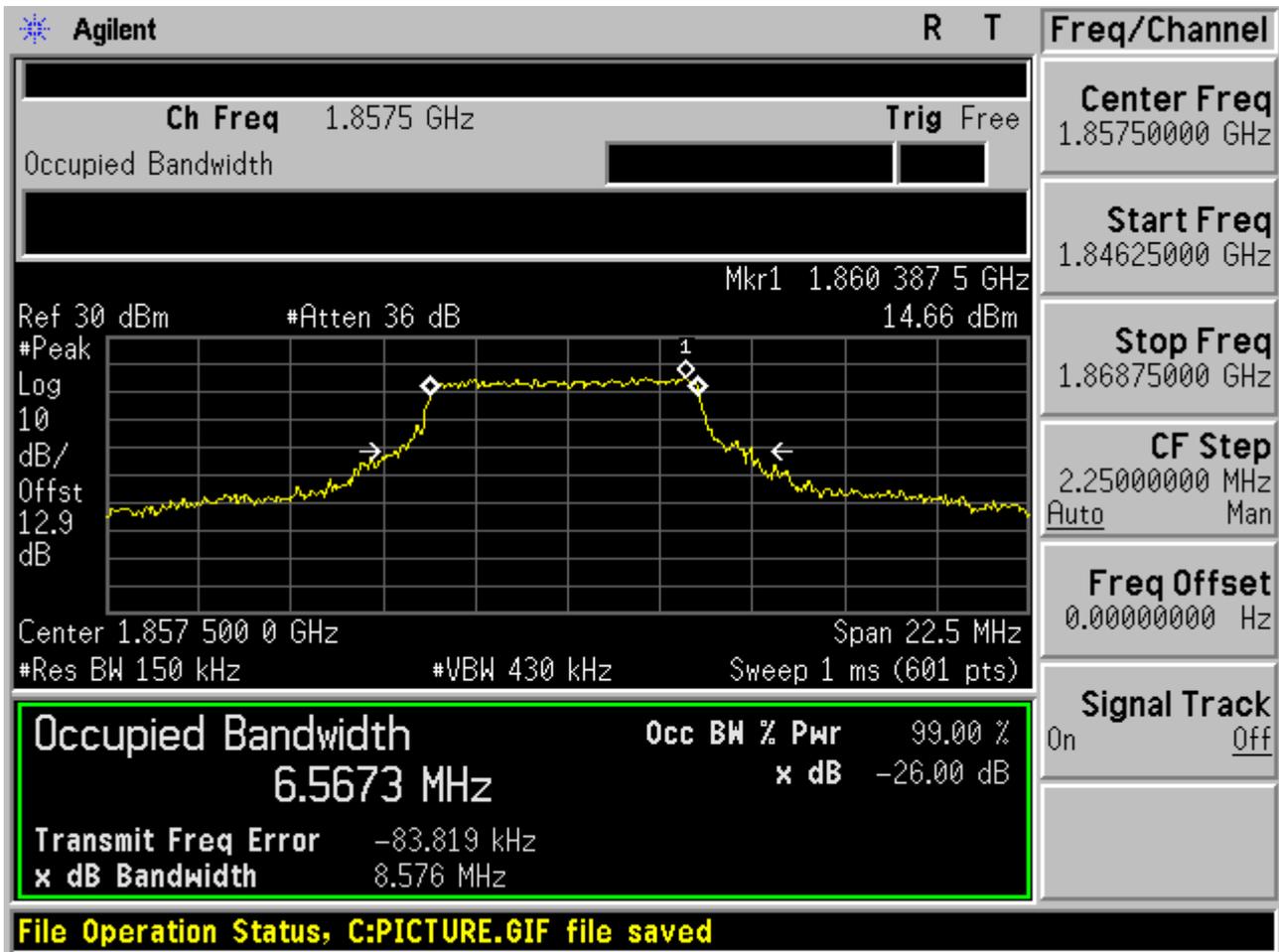


2.2.5.1.2 16QAM /1RB # max



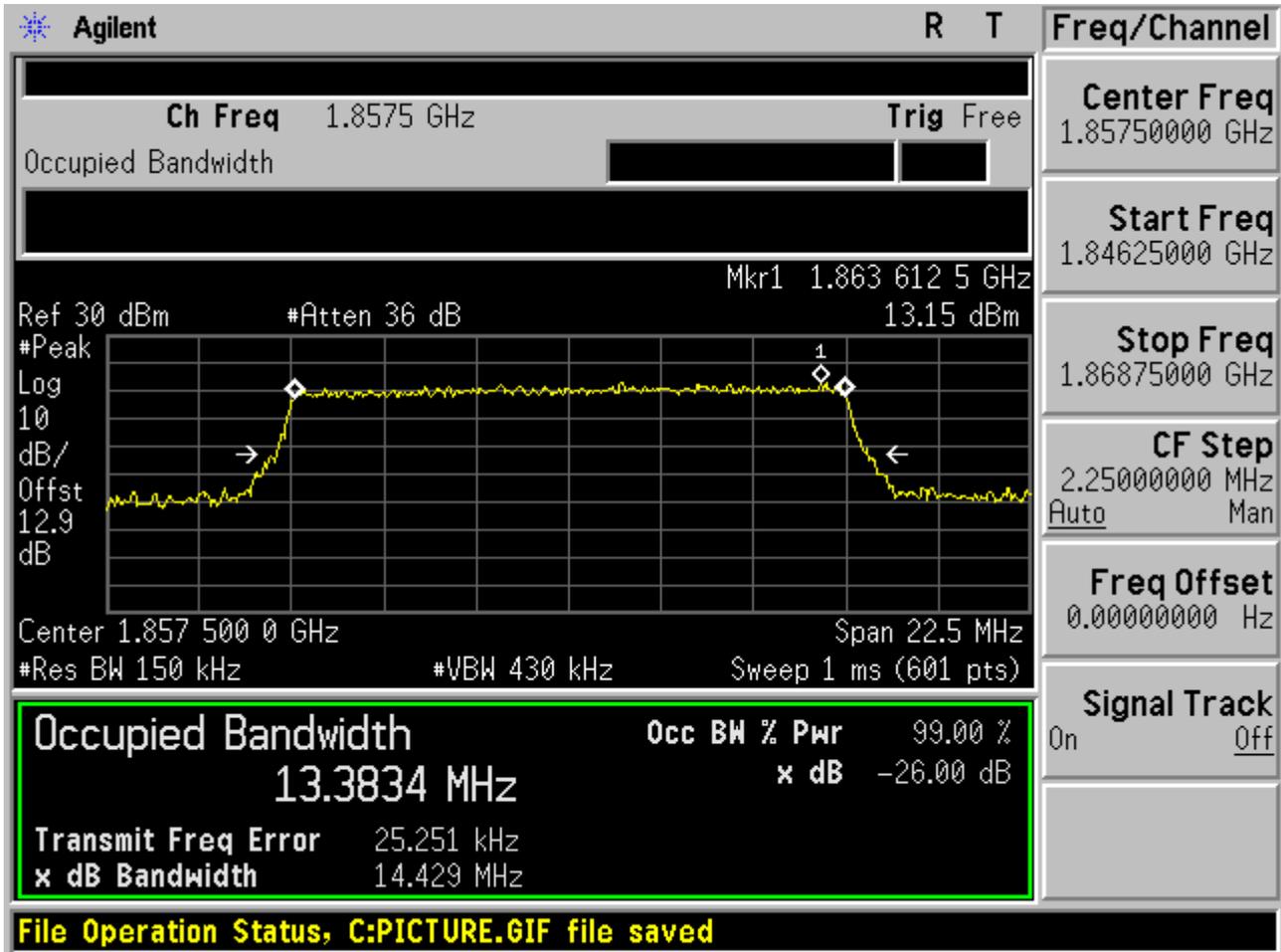


2.2.5.1.3 16QAM /non-1RB #mid/2





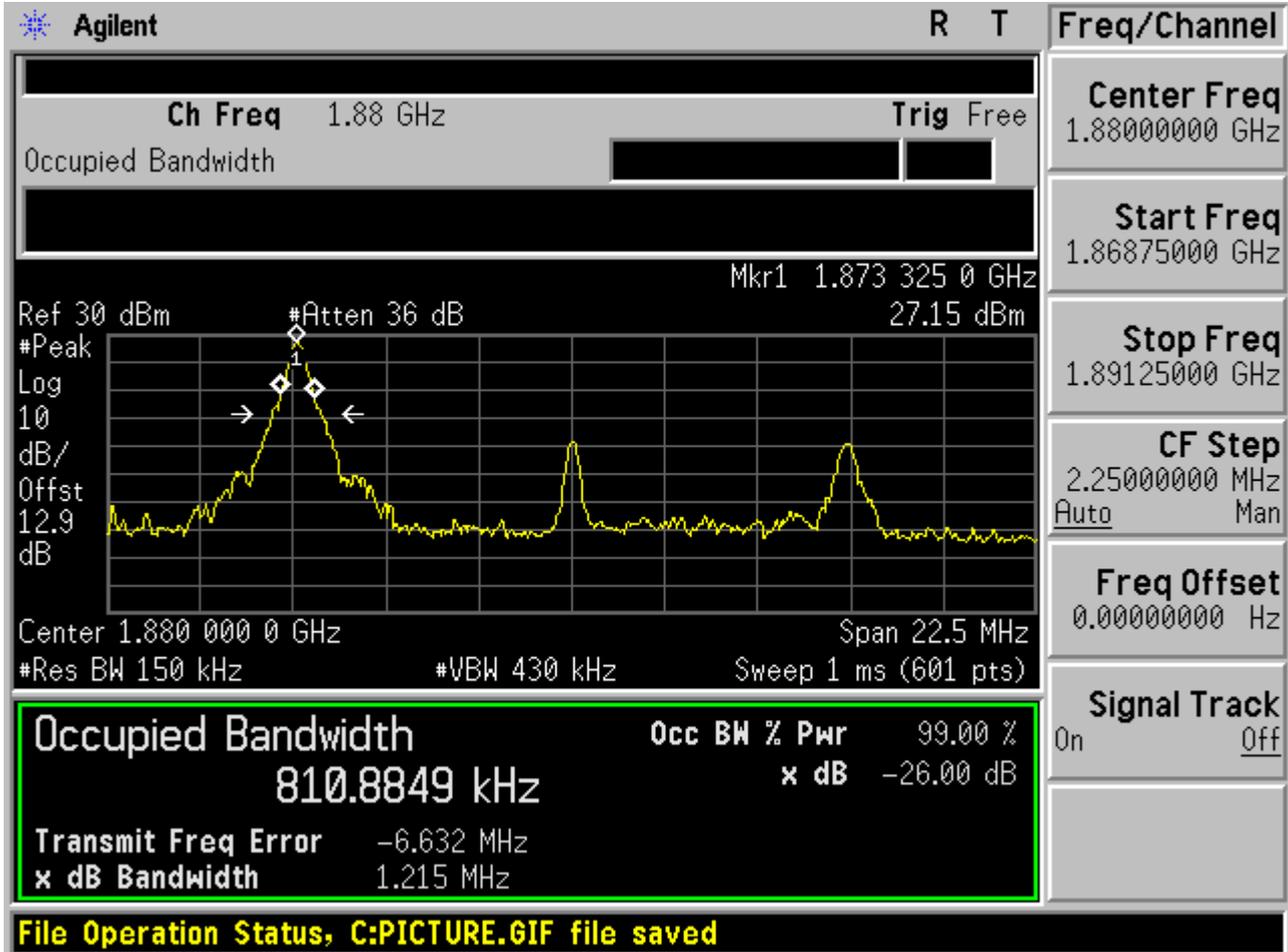
2.2.5.1.4 16QAM /full RBs





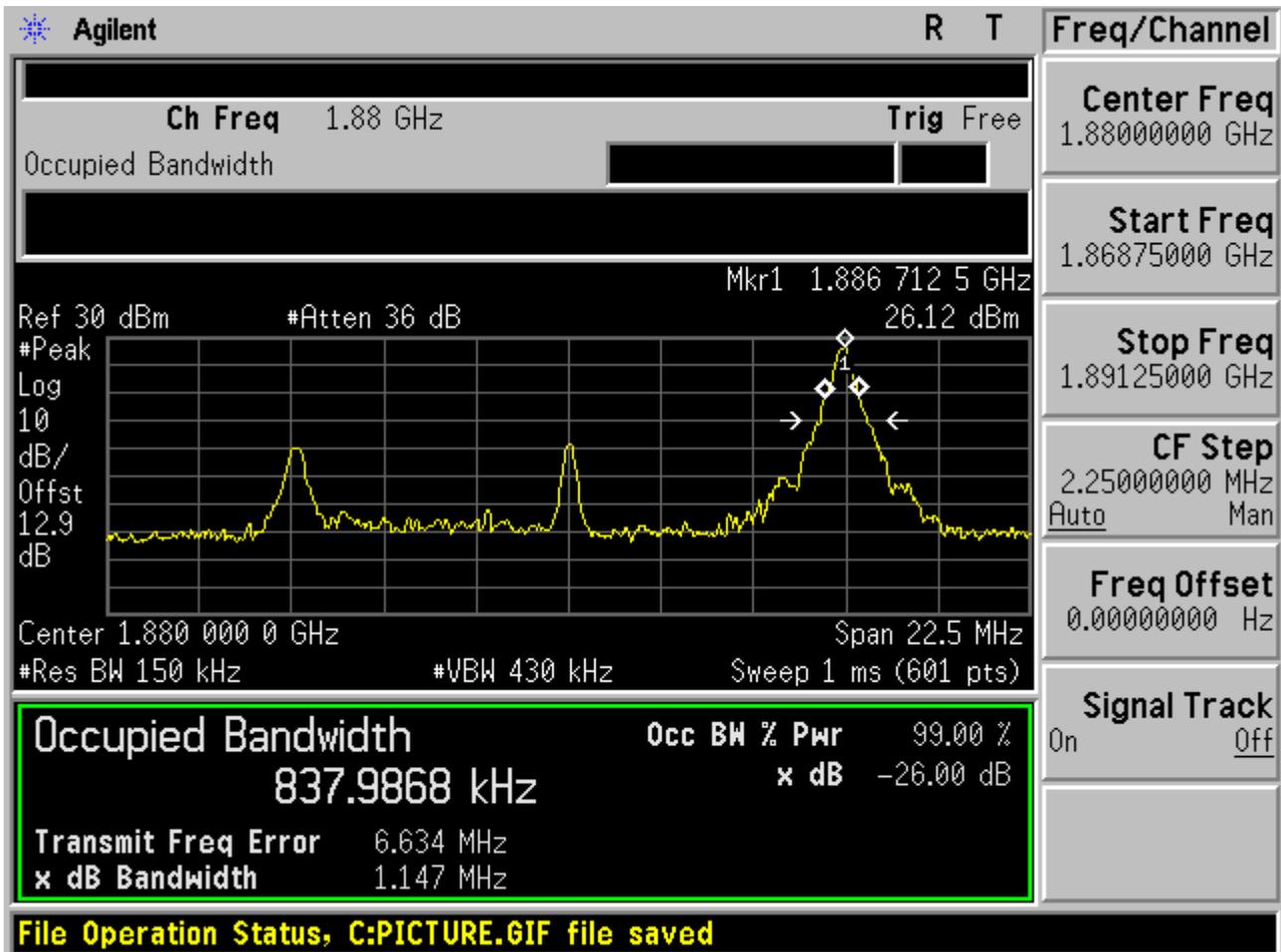
2.2.5.2 Channel =M

2.2.5.2.1 16QAM/1RB # 0



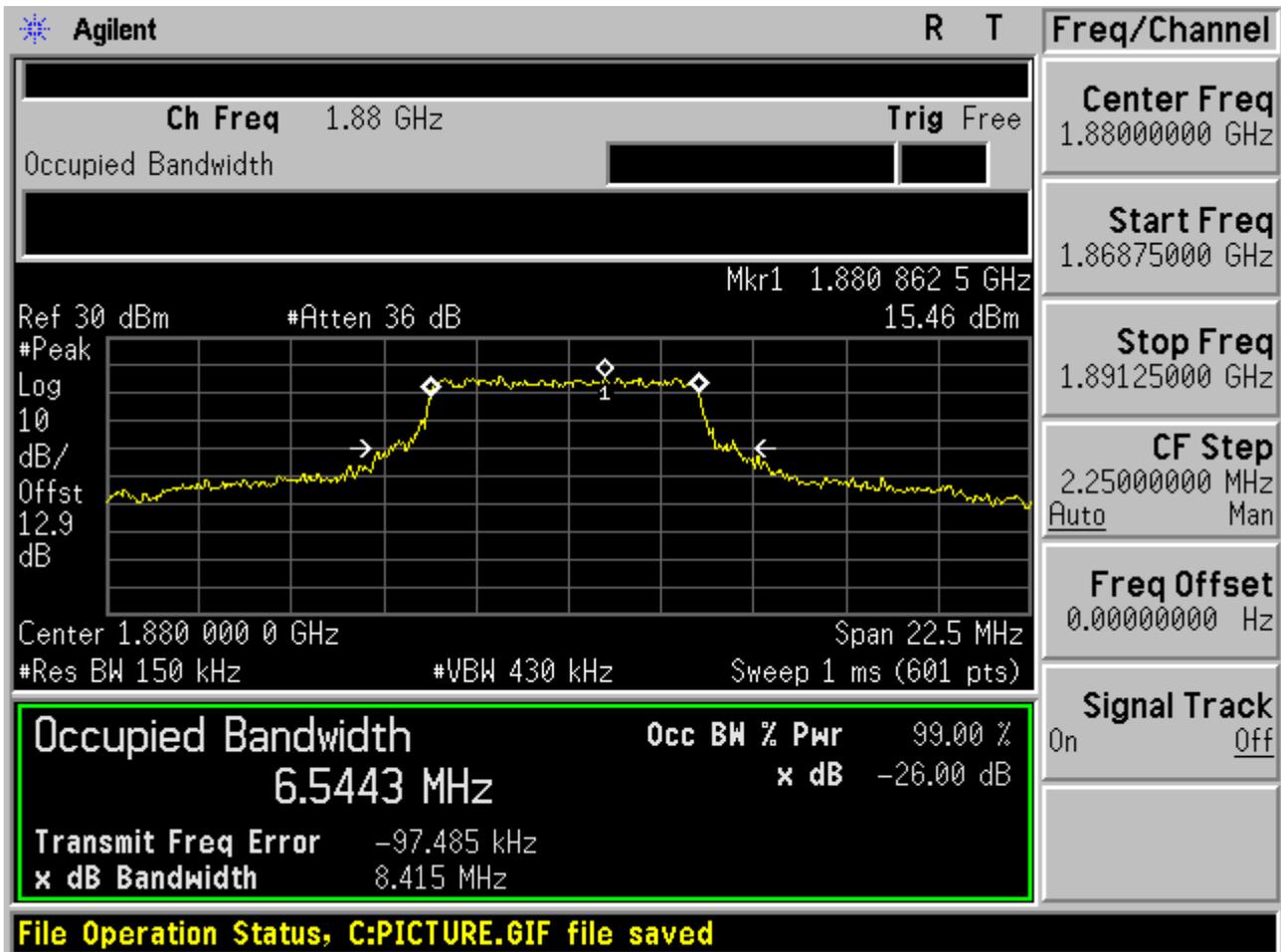


2.2.5.2.2 16QAM /1RB # max



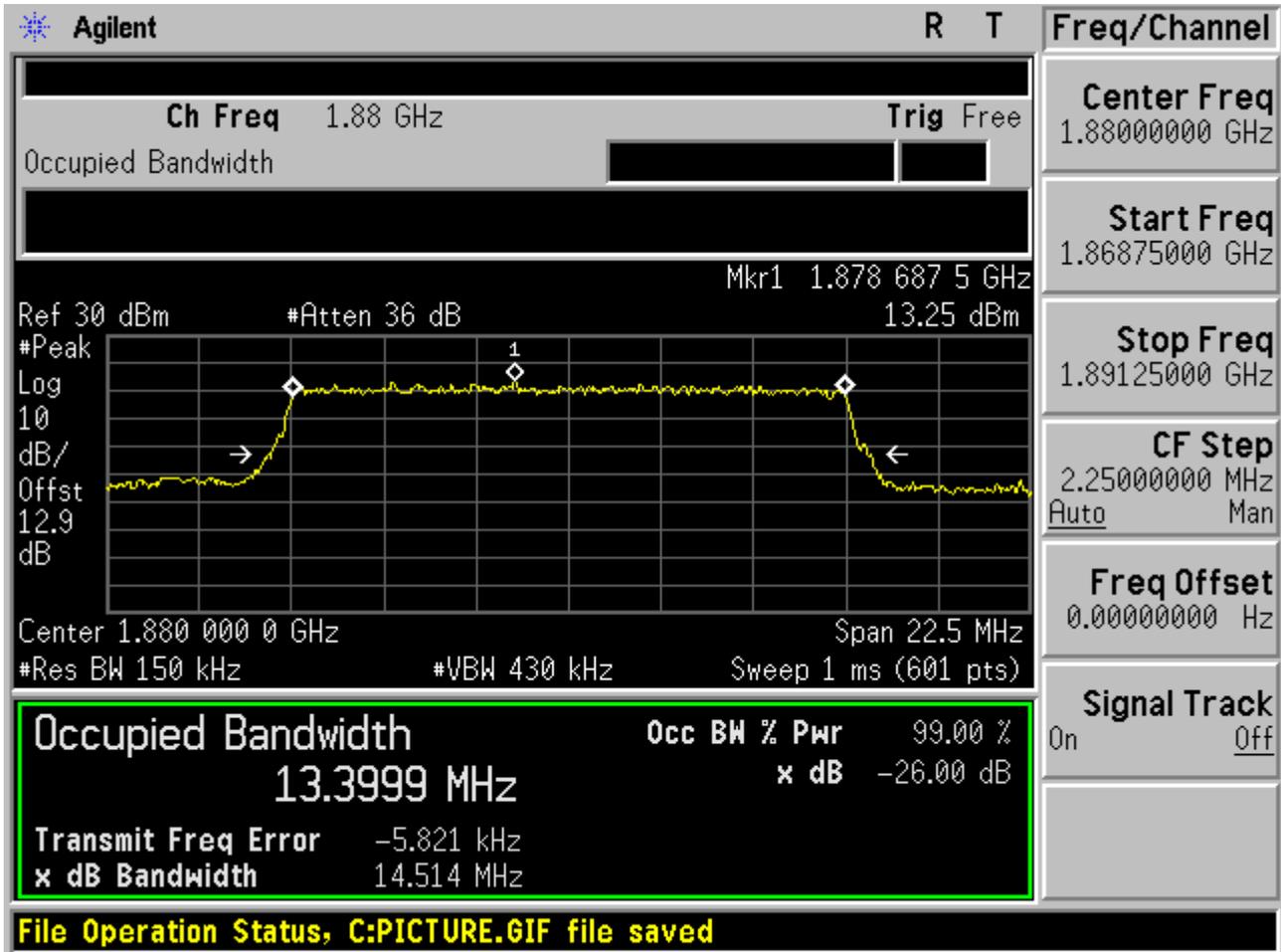


2.2.5.2.3 16QAM /non-1RB #mid/2





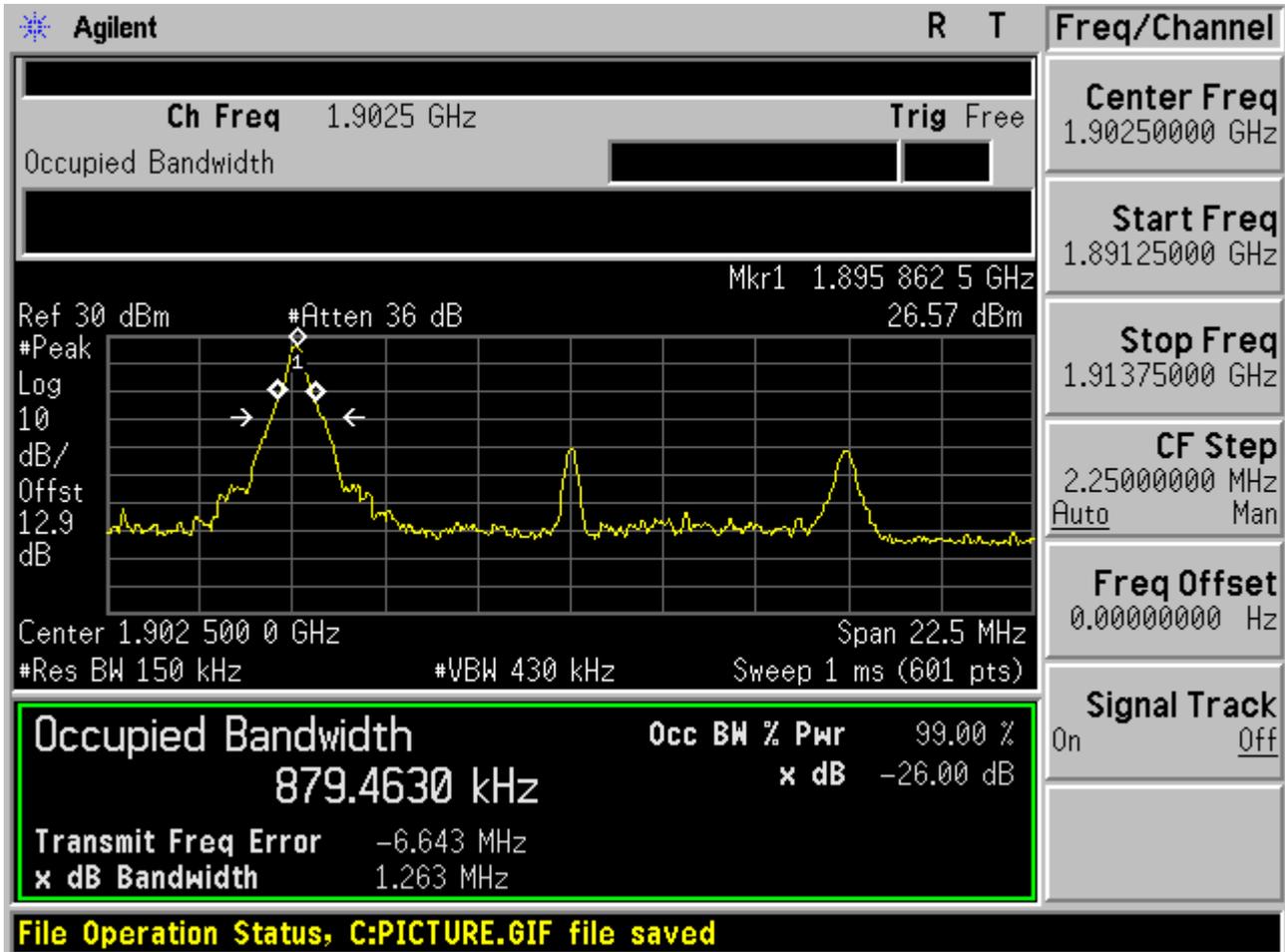
2.2.5.2.4 16QAM /full RBs





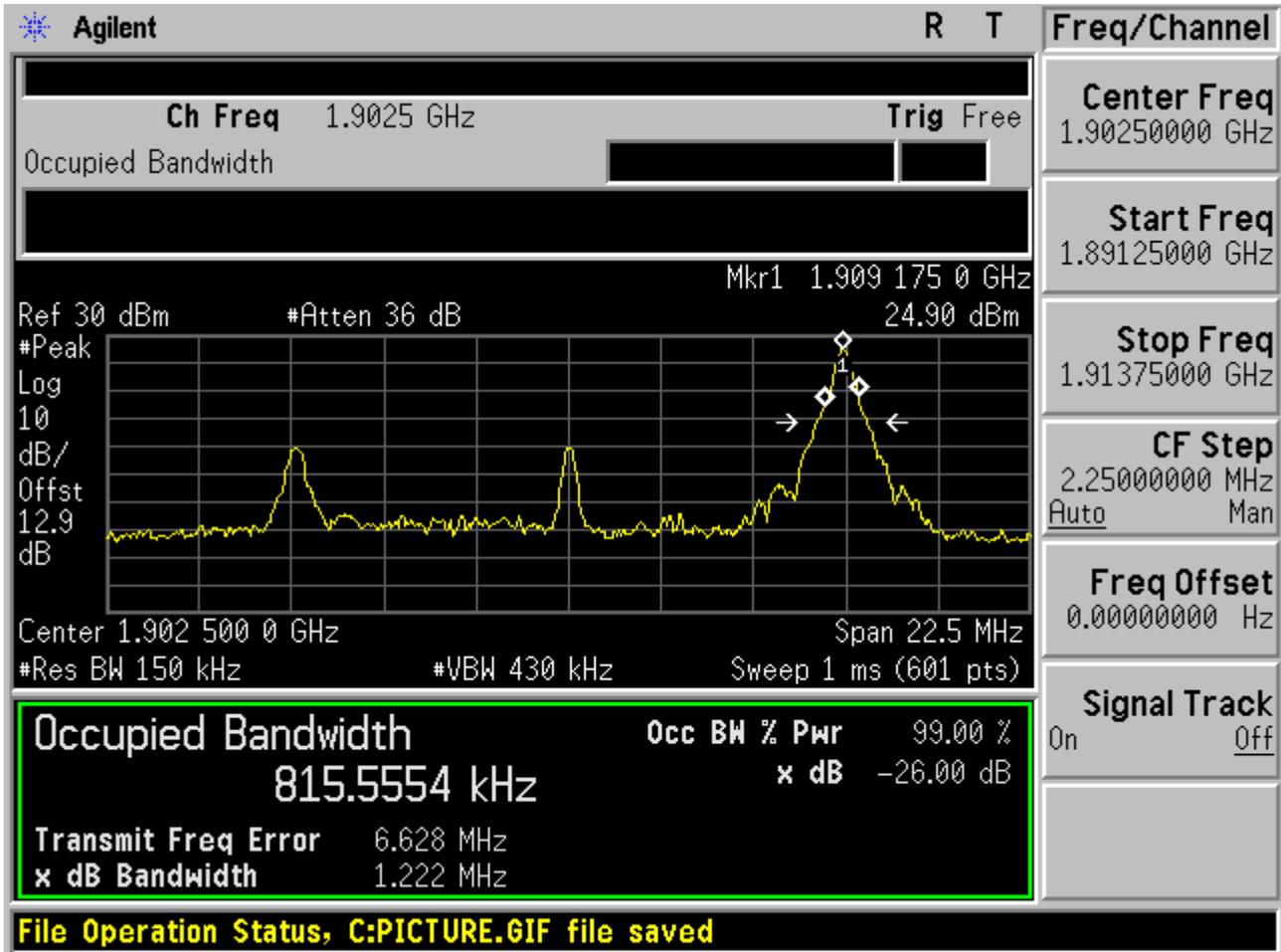
2.2.5.3 Channel = T

2.2.5.3.1 16QAM/1RB # 0



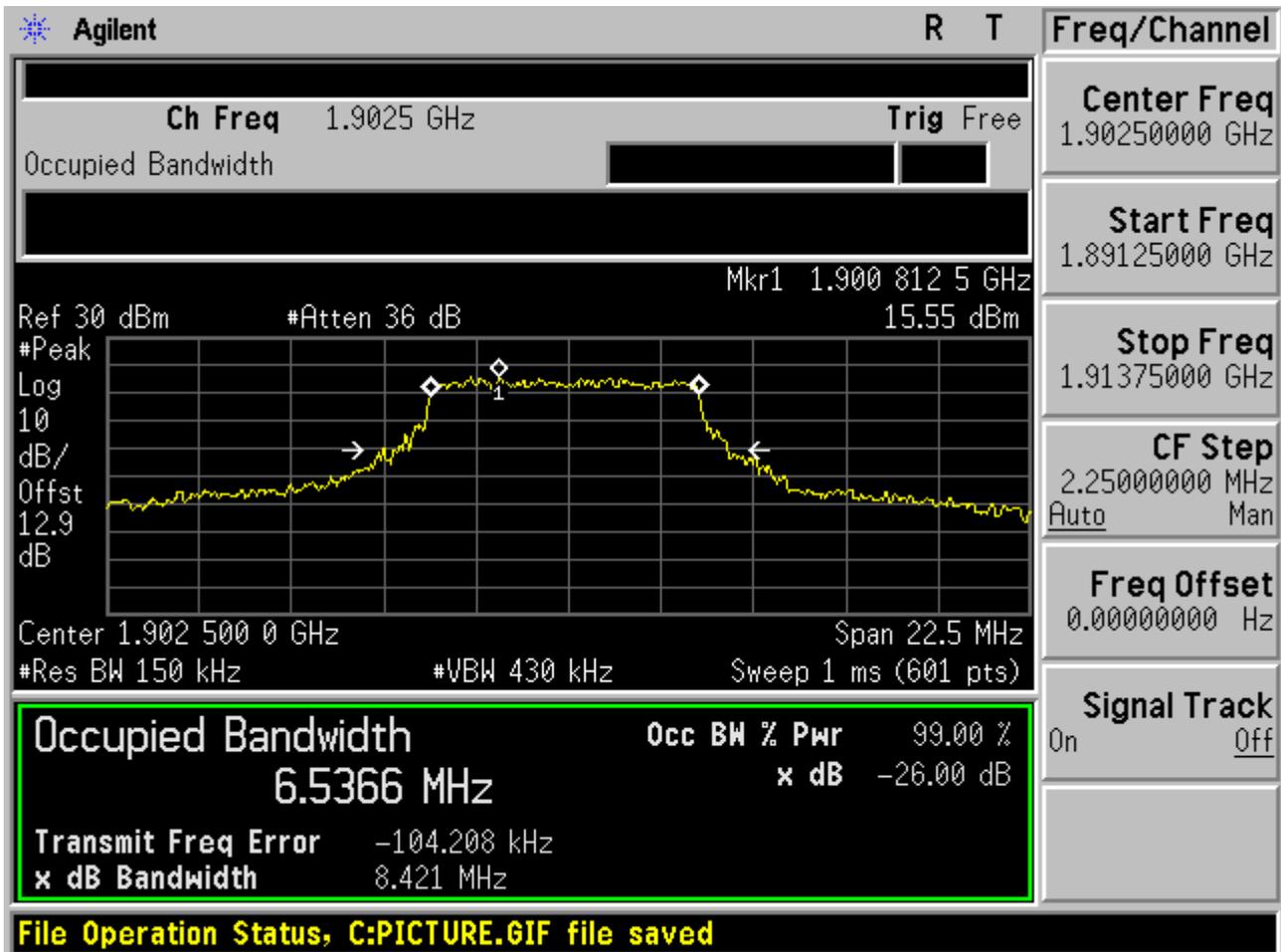


2.2.5.3.2 16QAM /1RB # max



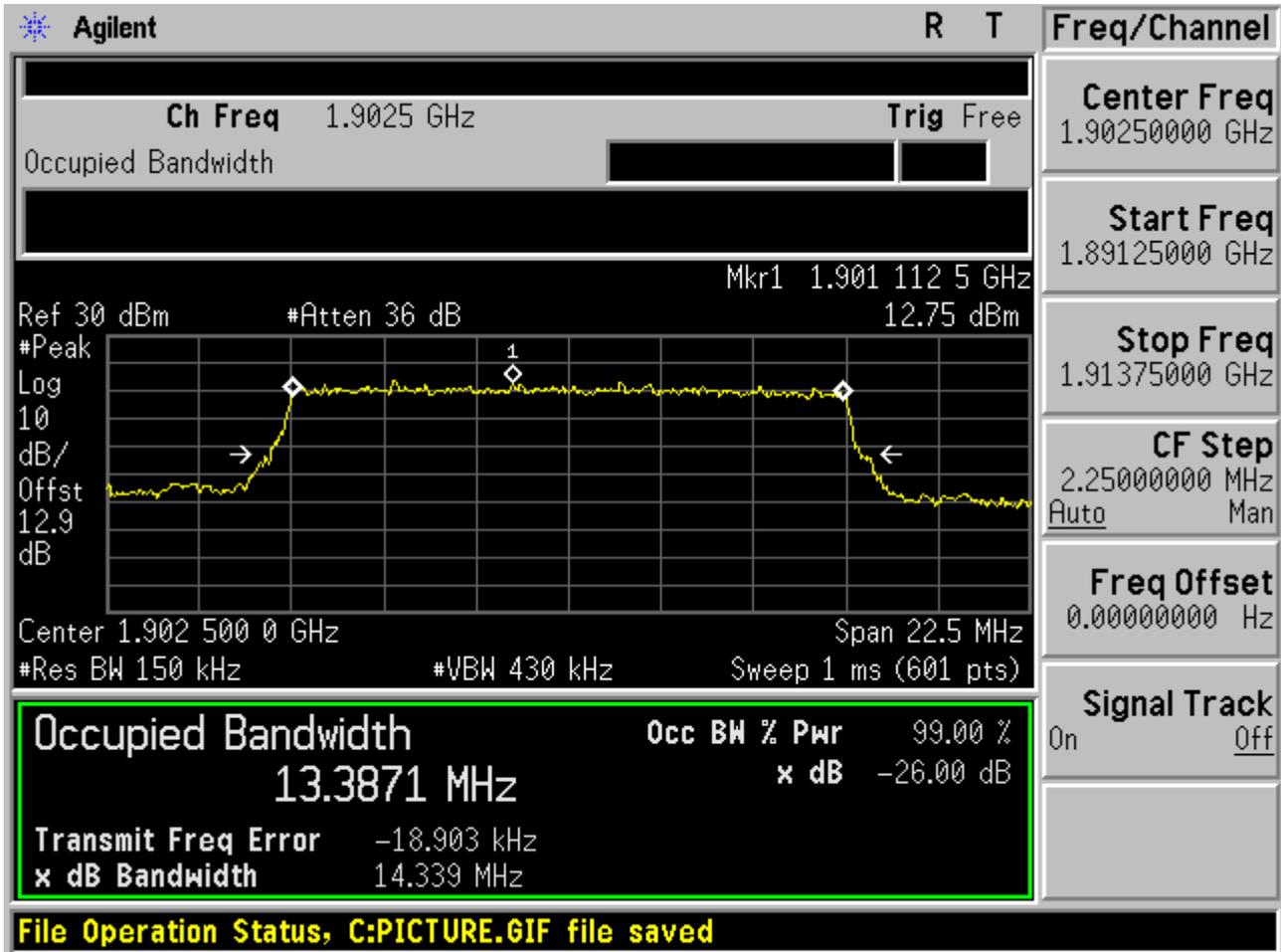


2.2.5.3.3 16QAM /non-1RB #mid/2





2.2.5.3.4 16QAM /full RBs

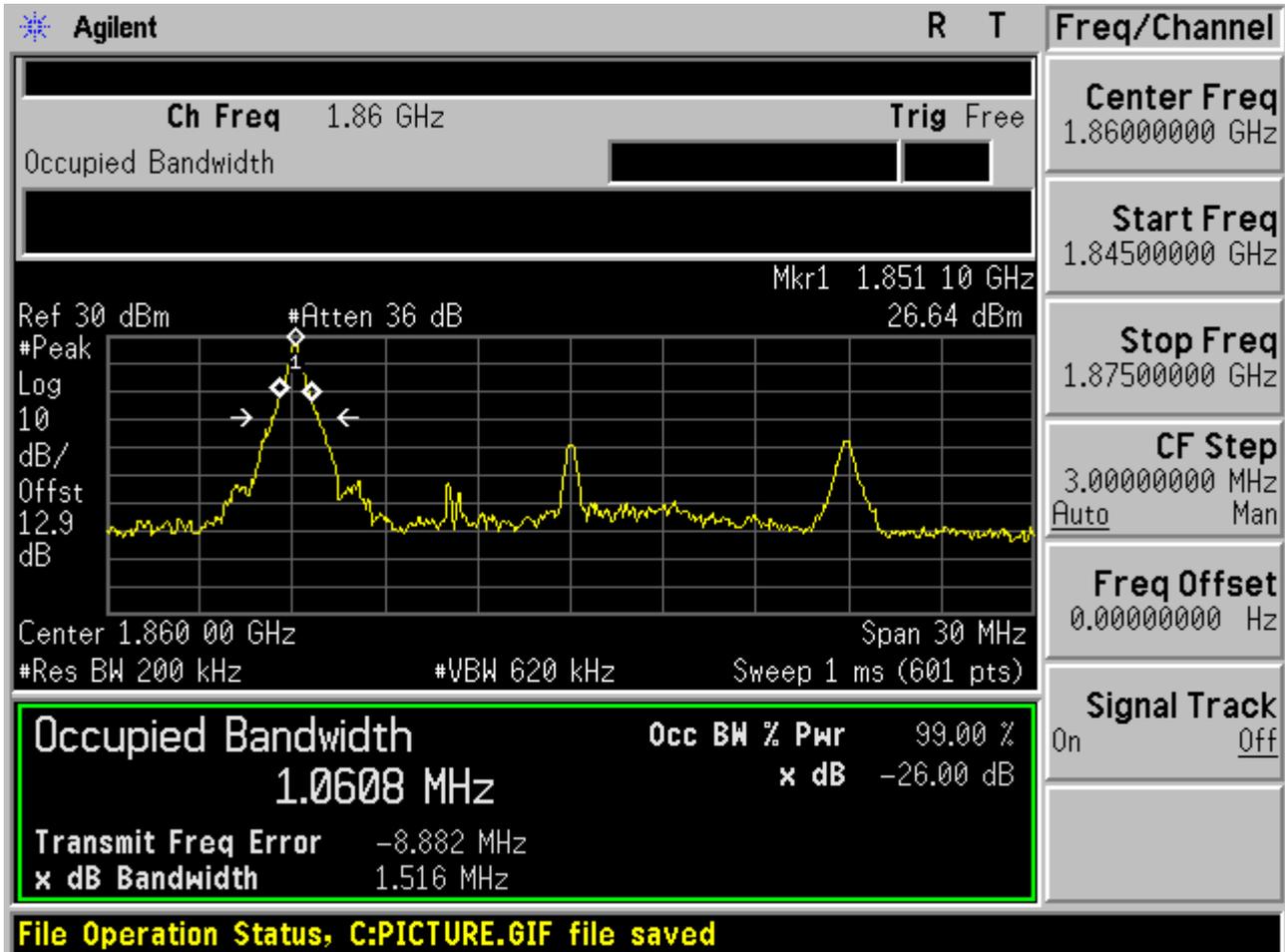




2.2.6 Channel Bandwidth = 20 MHz

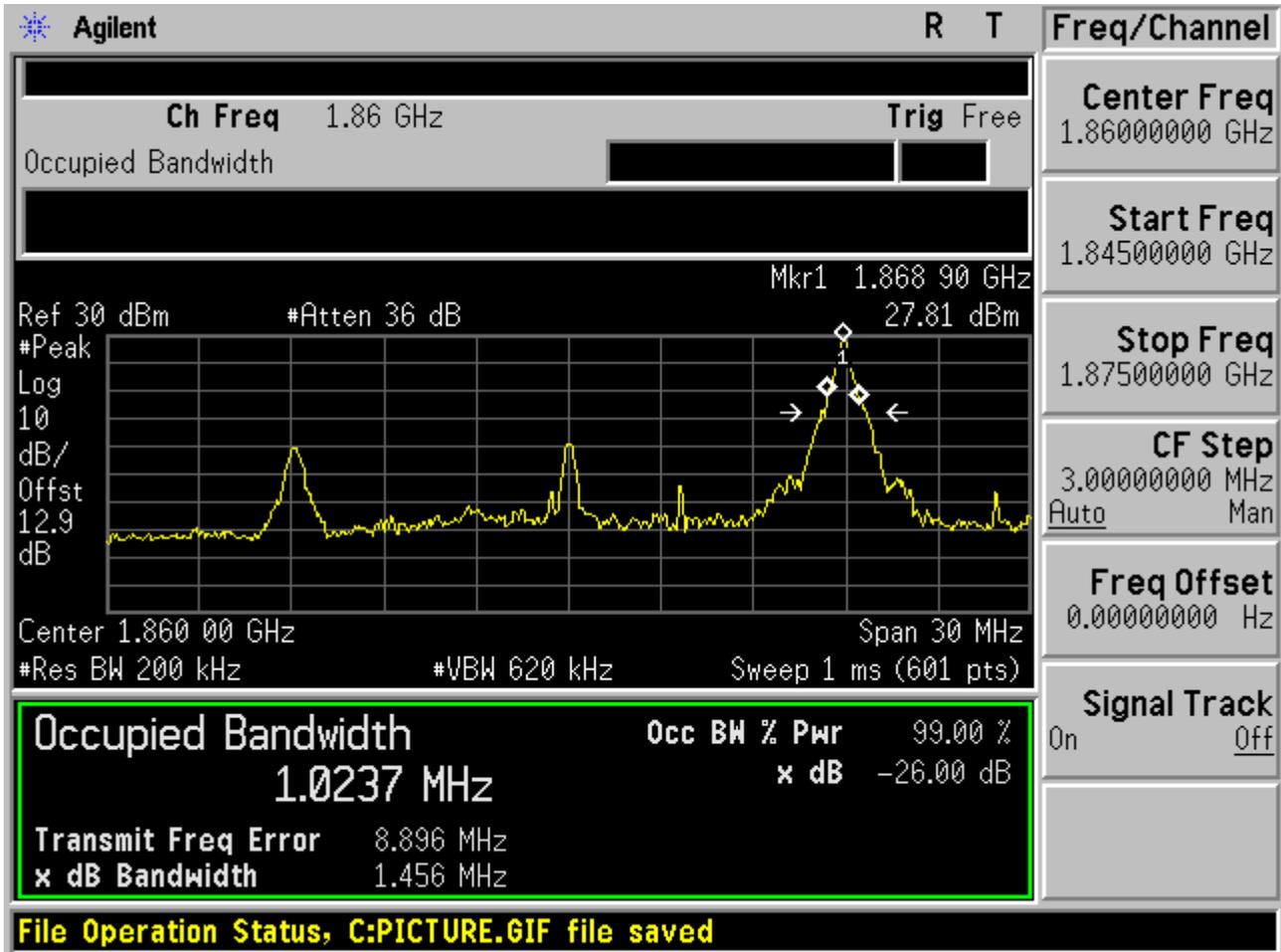
2.2.6.1 Channel = B

2.2.6.1.1 16QAM/1RB # 0



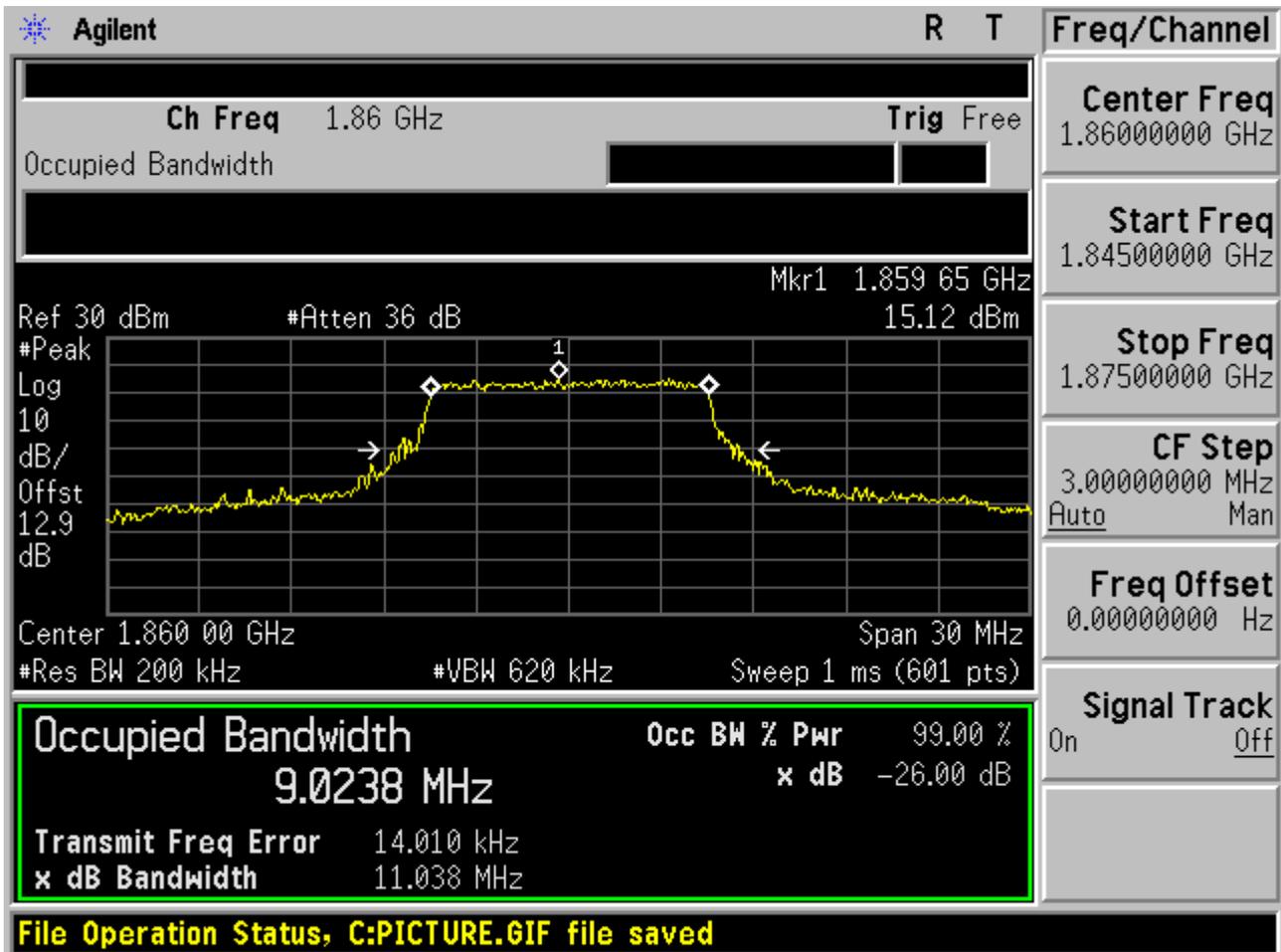


2.2.6.1.2 16QAM /1RB # max



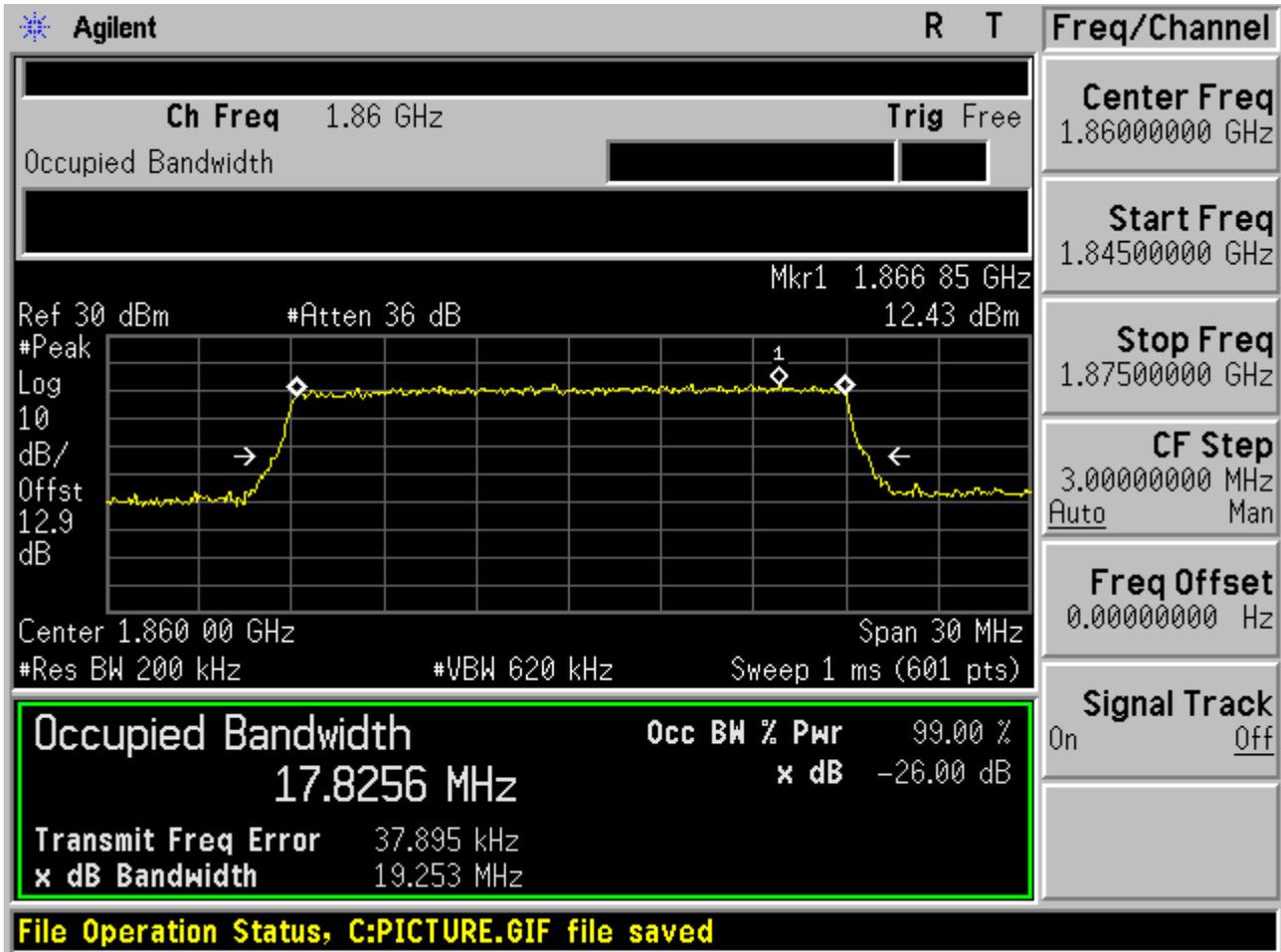


2.2.6.1.3 16QAM /non-1RB #mid/2





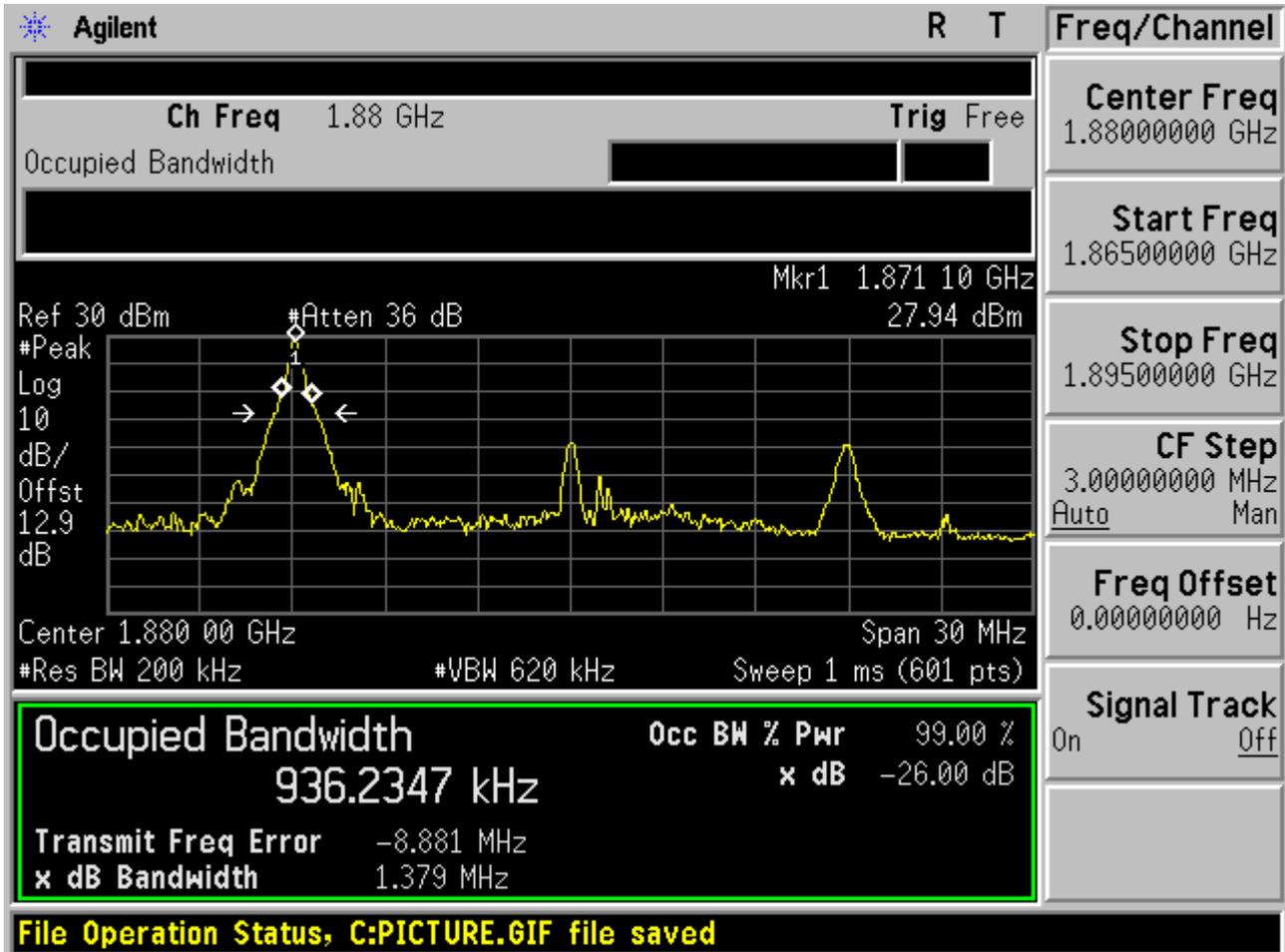
2.2.6.1.4 16QAM /full RBs





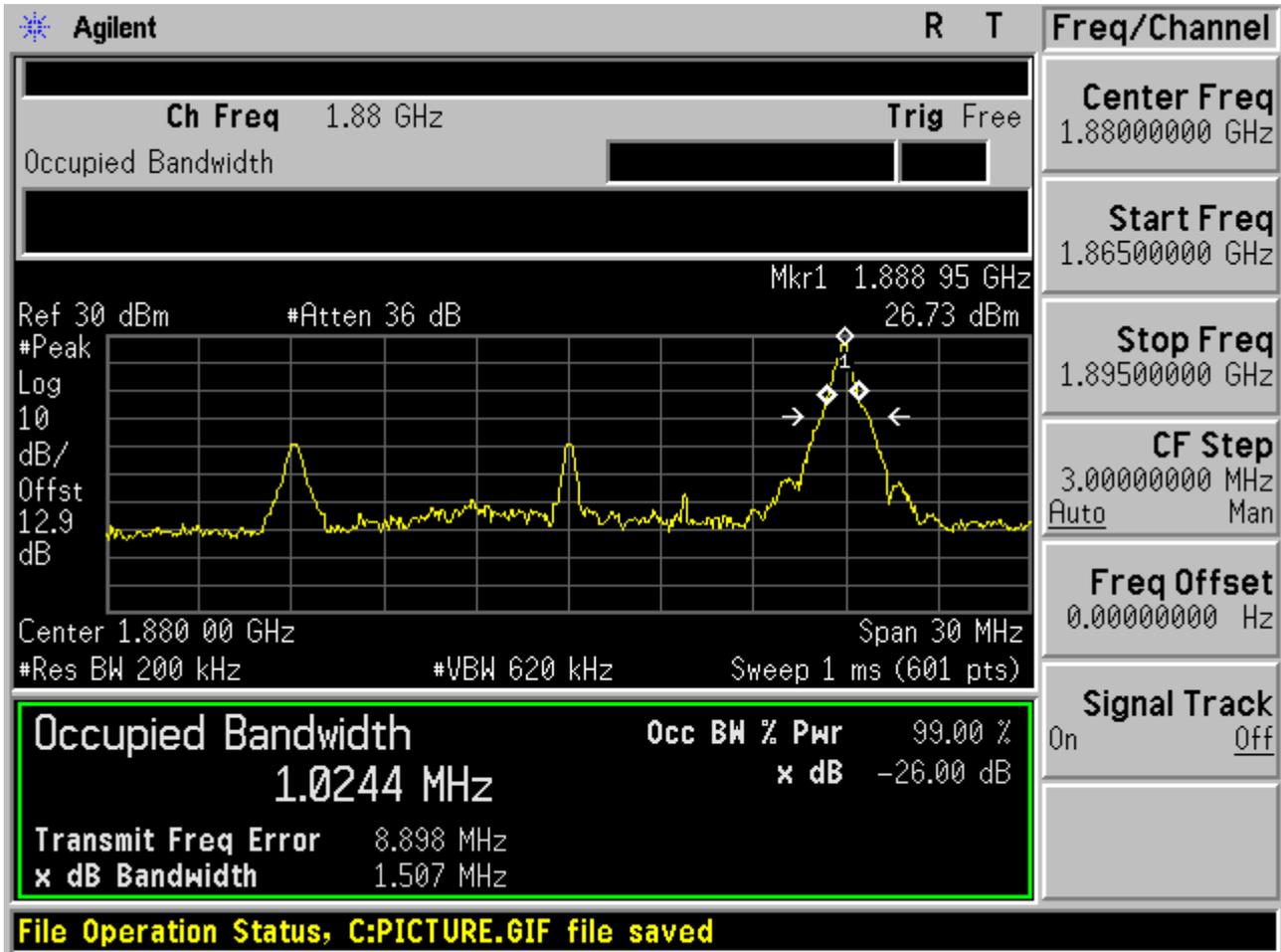
2.2.6.2 Channel =M

2.2.6.2.1 16QAM/1RB # 0



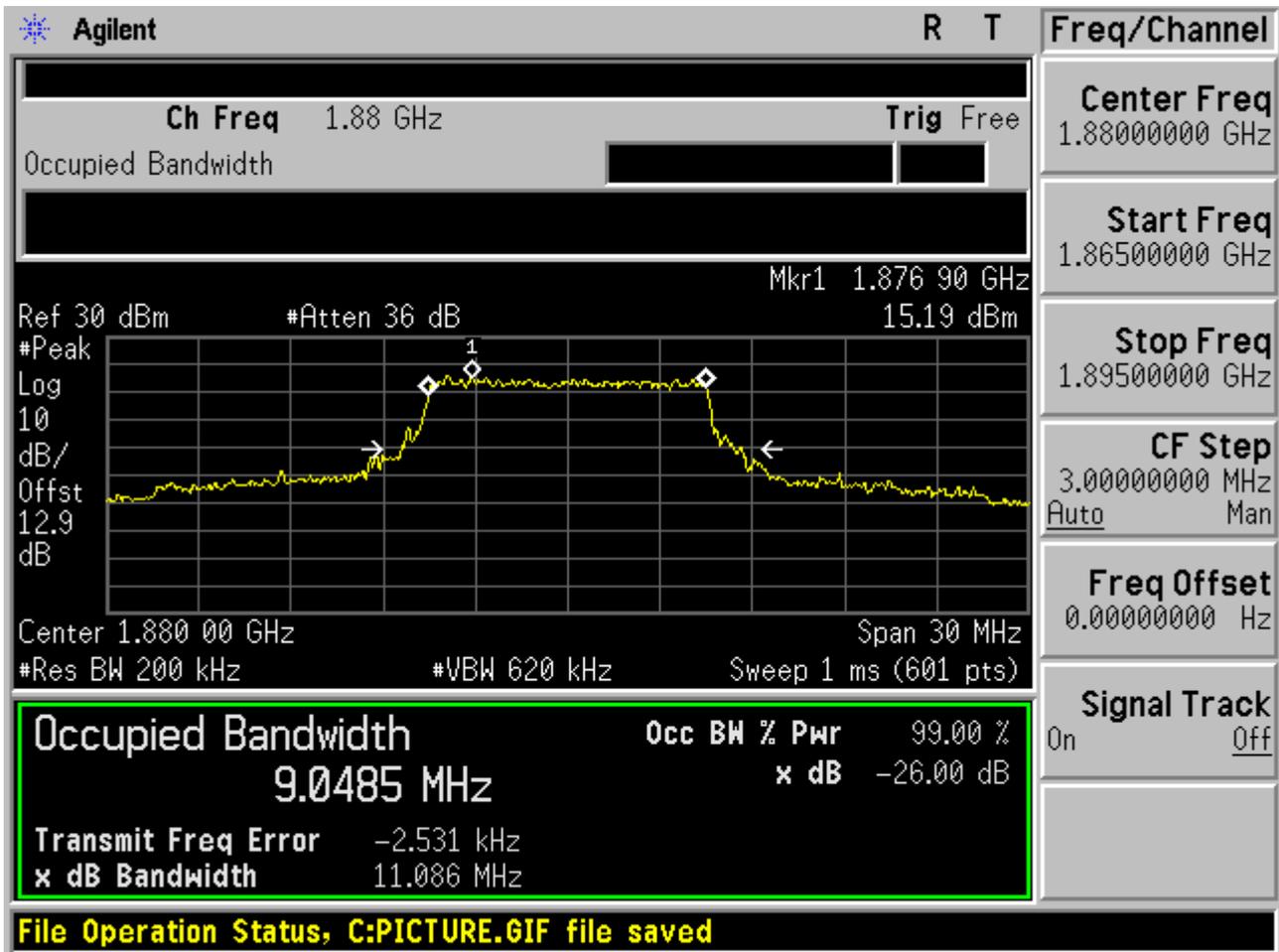


2.2.6.2.2 16QAM /1RB # max



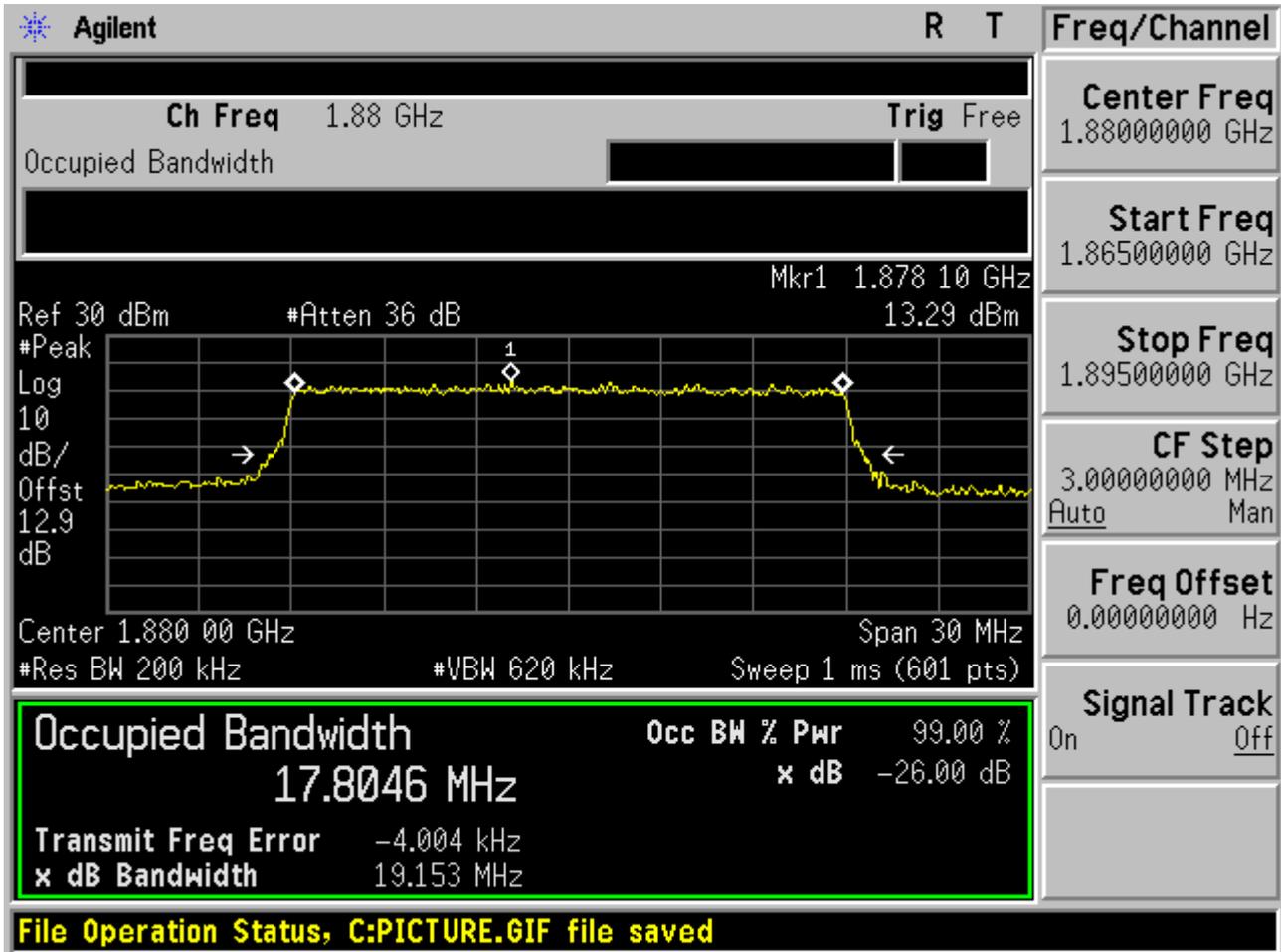


2.2.6.2.3 16QAM /non-1RB #mid/2





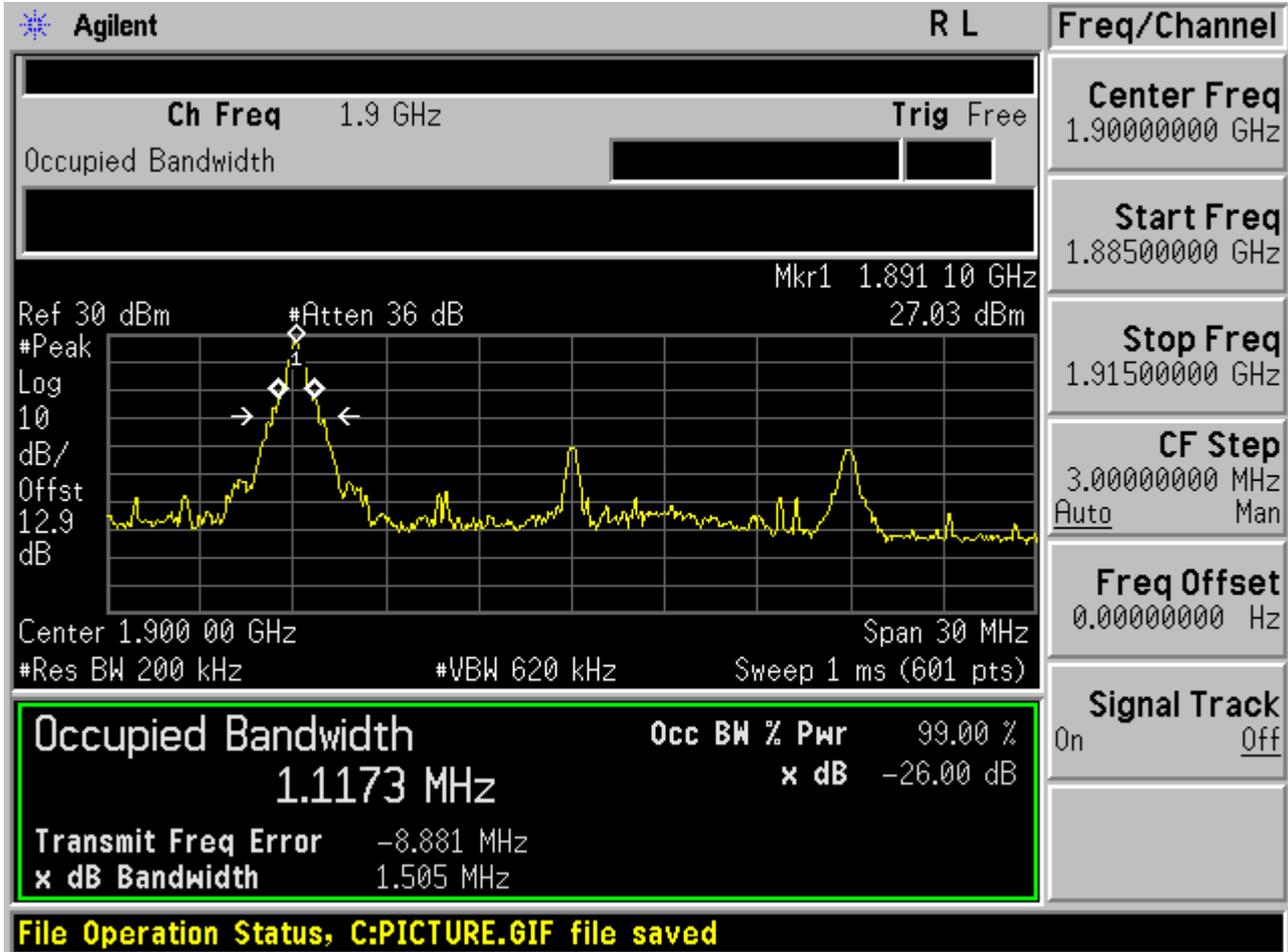
2.2.6.2.4 16QAM /full RBs





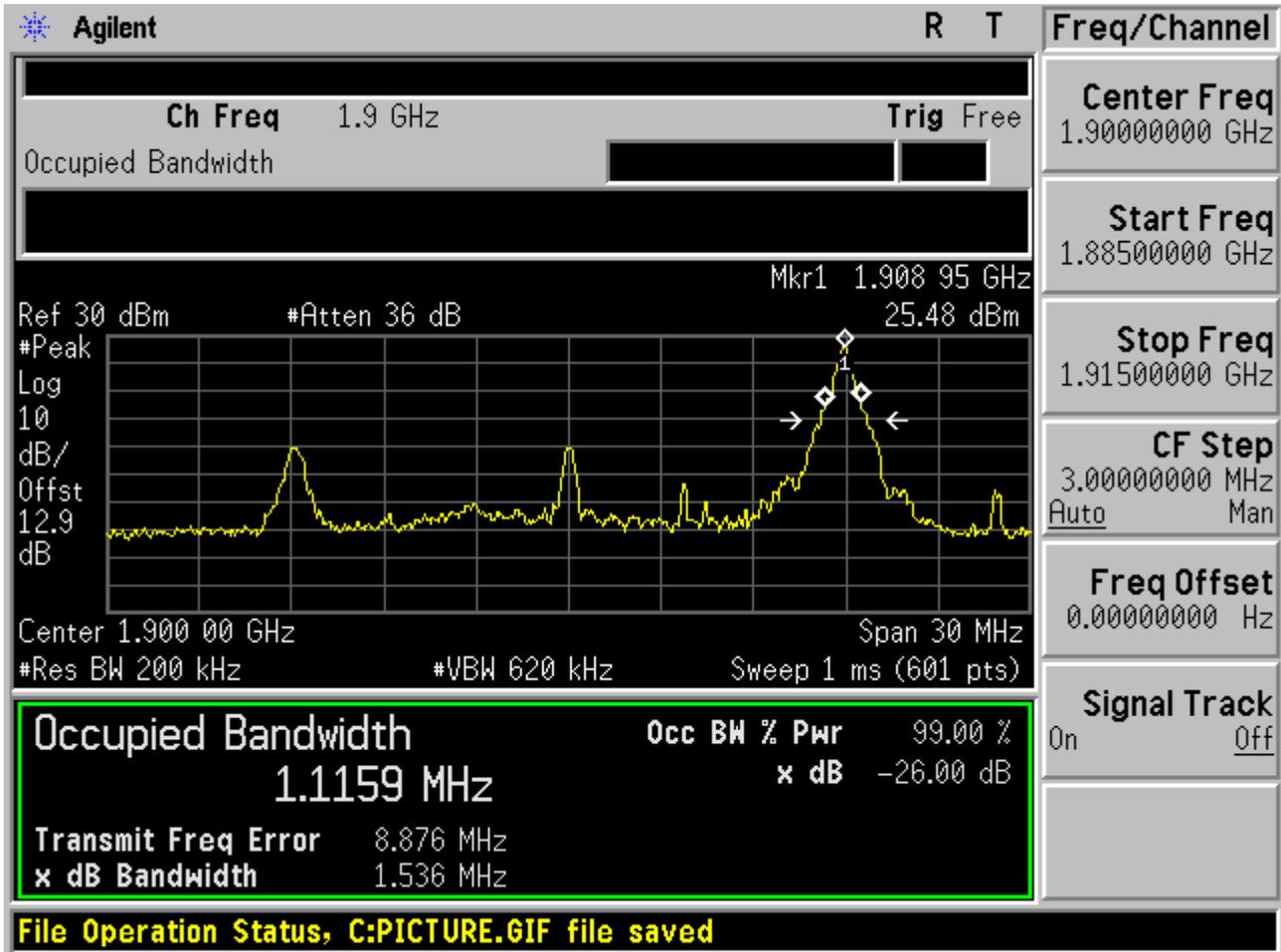
2.2.6.3 Channel = T

2.2.6.3.1 16QAM/1RB # 0



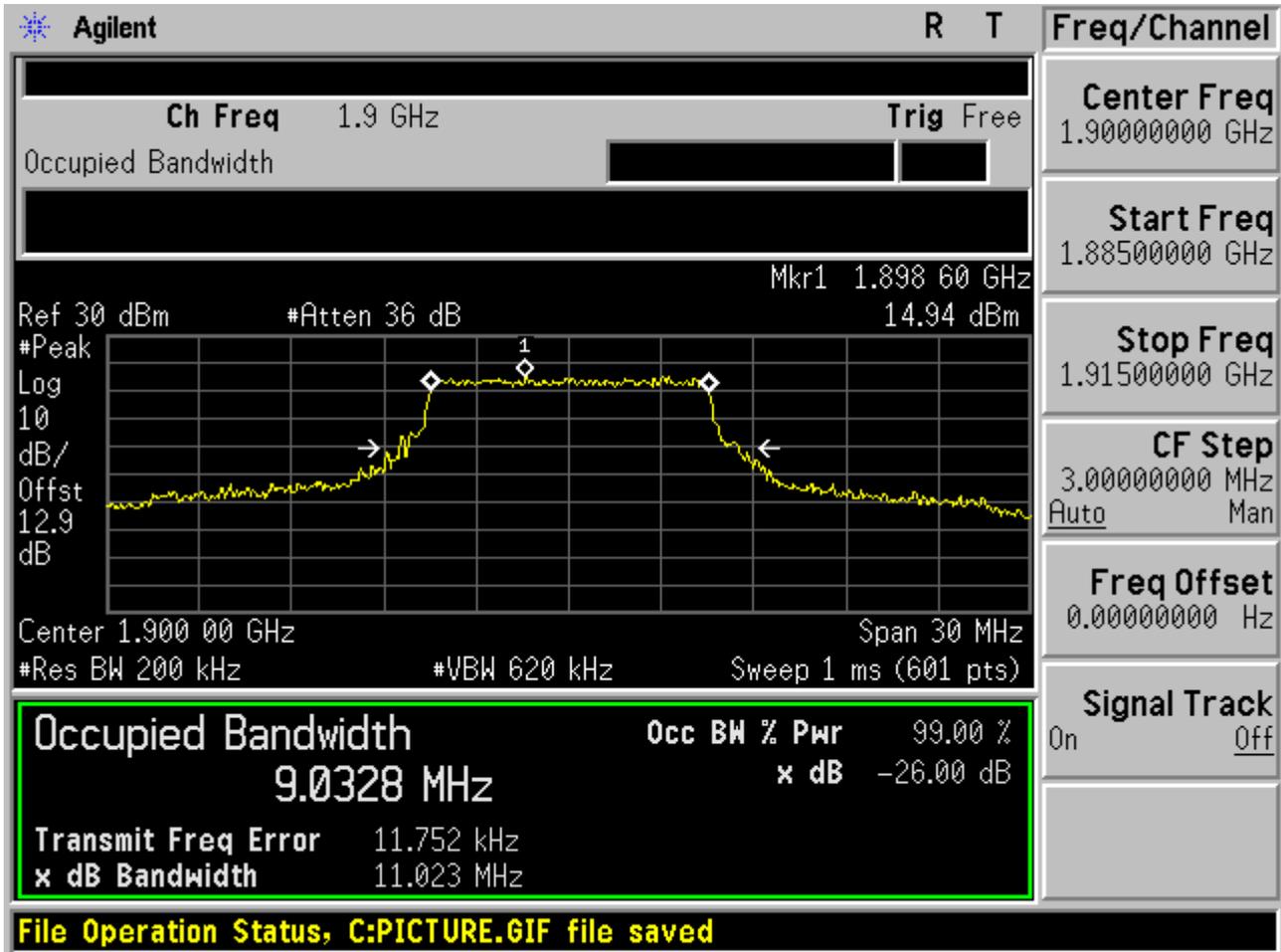


2.2.6.3.2 16QAM /1RB # max



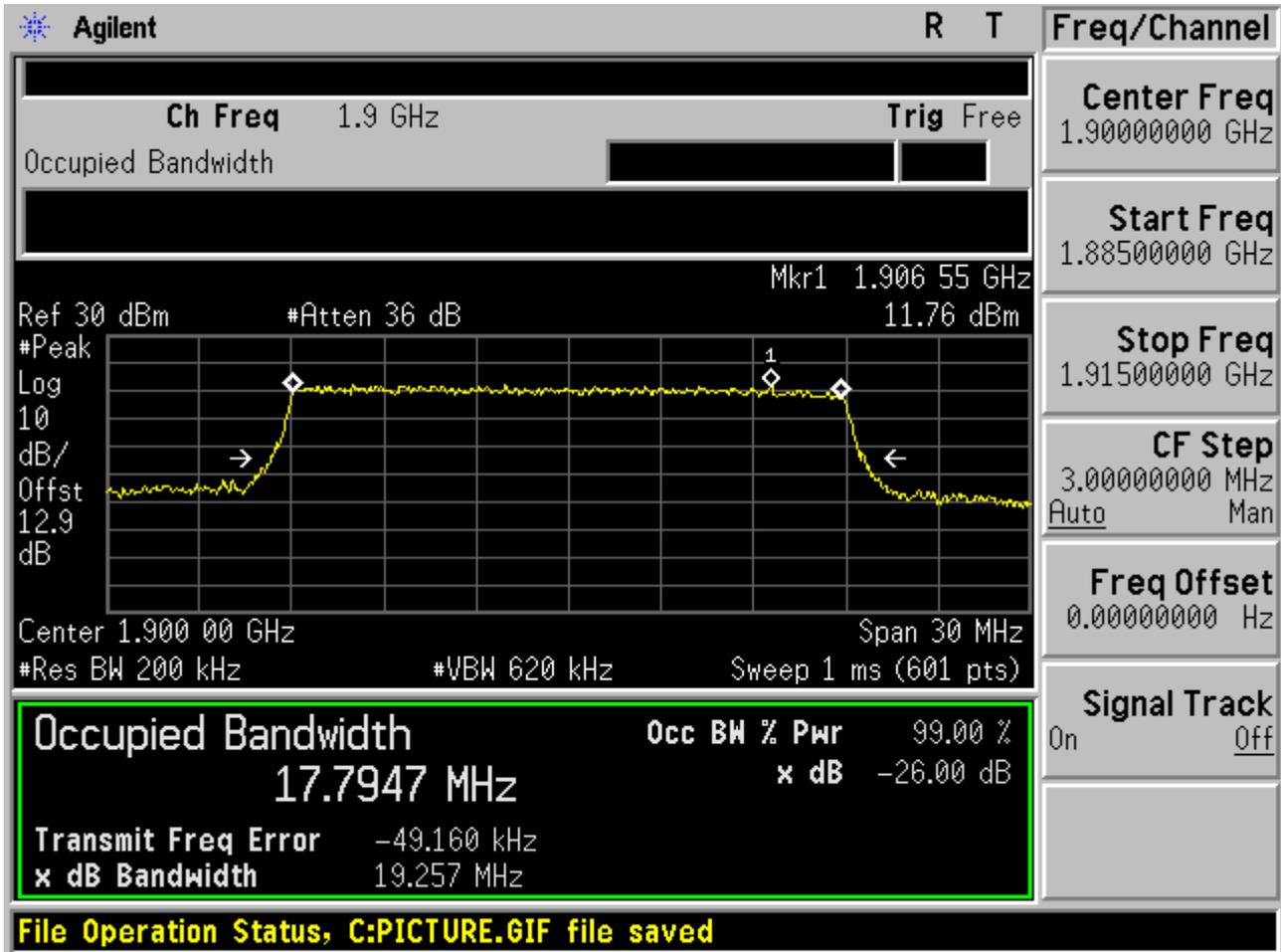


2.2.6.3.3 16QAM /non-1RB #mid/2





2.2.6.3.4 16QAM /full RBs



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