

2.78. Occupied Bandwidth for SA_Part22-24-27(Channel:634666, Bandwidth:60, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:162, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3519.99	99	26	1	Peak	57.98	61.01	60	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The results are as follows:

Measurement	Value
Occupied Bandwidth	57.9789 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-4.459 kHz
x dB Bandwidth	61.012 MHz

Other visible parameters include: Ch Freq 3.51999 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst 12.2 dB, Center 3.519 99 GHz, Span 120 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (600 pts).

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2.79. Occupied Bandwidth for SA_Part22-24-27(Channel:632000, Bandwidth:60, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:162, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3480	99	26	1	Peak	57.74	61	60	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 3.48 GHz, and the span is 120 MHz. The occupied bandwidth is highlighted as 57.7443 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The interface includes various measurement controls and a list of measurement options on the right side.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
57.7443 MHz		x dB	-26.00 dB
Transmit Freq Error	31.640 kHz		
x dB Bandwidth	60.995 MHz		

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2.80. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:60, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:162, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	57.8	60.88	60	Pass

Agilent
Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 98 GHz Span 120 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (600 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
57.7954 MHz	x dB -26.00 dB
Transmit Freq Error 38.378 kHz	
x dB Bandwidth 60.884 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.81. Occupied Bandwidth for SA_Part22-24-27(Channel:634666, Bandwidth:60, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:162, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3519.99	99	26	1	Peak	57.85	61.04	60	Pass

Agilent
Measure

Ch Freq 3.51999 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.519 99 GHz Span 120 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (600 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
57.8489 MHz	x dB -26.00 dB
Transmit Freq Error 18.332 kHz	
x dB Bandwidth 61.041 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.82. Occupied Bandwidth for SA_Part22-24-27(Channel:632000, Bandwidth:60, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:162, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3480	99	26	1	Peak	57.76	61.04	60	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 3.48 GHz, and the span is 120 MHz. The occupied bandwidth is highlighted in a green box, showing 57.7586 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The interface includes various measurement buttons on the right side, such as 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More'. The bottom of the screen shows the copyright information: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
57.7586 MHz	x dB	-26.00 dB
Transmit Freq Error	25.242 kHz	
x dB Bandwidth	61.038 MHz	

2.83. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:60, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:162, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	57.74	61.14	60	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The center frequency is 3.49998 GHz, and the span is 120 MHz. The occupied bandwidth is measured as 57.7392 MHz, which is 99.00% of the channel bandwidth. The XdB down is -26.00 dB. The transmit frequency error is 46.740 kHz, and the XdB bandwidth is 61.141 MHz. The interface includes various measurement controls and a list of measurement options on the right side.

Measurement	Value
Occupied Bandwidth	57.7392 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	46.740 kHz
x dB Bandwidth	61.141 MHz

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2.84. Occupied Bandwidth for SA_Part22-24-27(Channel:634666, Bandwidth:60, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:162, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3519.99	99	26	1	Peak	57.78	61.1	60	Pass

Agilent
Measure

Ch Freq 3.51999 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.519 99 GHz Span 120 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (600 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

57.7794 MHz x dB -26.00 dB

Transmit Freq Error 26.158 kHz

x dB Bandwidth 61.099 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

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2.85. Occupied Bandwidth for SA_Part22-24-27(Channel:632334, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:189, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3485.01	99	26	1	Peak	67.53	70.78	70	Pass

Agilent
Measure

Ch Freq 3.48501 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.485 01 GHz Span 140 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (700 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
67.5289 MHz	x dB -26.00 dB
Transmit Freq Error 43.284 kHz	
x dB Bandwidth 70.783 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.86. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:189, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	67.61	70.82	70	Pass

Agilent
Measure

Ch Freq 3.49998 GHz Trig Free

Occupied Bandwidth Averages: 1

Ext Ref

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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Ref 30 dBm #Atten 30 dB

Occupied Bandwidth Occ BW % Pwr 99.00 %

67.6070 MHz x dB -26.00 dB

Transmit Freq Error 60.933 kHz

x dB Bandwidth 70.819 MHz

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2.87. Occupied Bandwidth for SA_Part22-24-27(Channel:634332, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:189, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3514.98	99	26	1	Peak	67.64	70.78	70	Pass

Agilent
Measure

Ch Freq 3.51498 GHz Ext Ref

Occupied Bandwidth Trig Free

Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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Ref 30 dBm #Atten 30 dB

Occupied Bandwidth

67.6374 MHz
Occ BW % Pwr 99.00 %

Transmit Freq Error 24.103 kHz
x dB -26.00 dB

x dB Bandwidth 70.780 MHz

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2.88. Occupied Bandwidth for SA_Part22-24-27(Channel:632334, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:189, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3485.01	99	26	1	Peak	67.4	70.7	70	Pass

Agilent
Measure

Ch Freq 3.48501 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.485 01 GHz Span 140 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (700 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
67.3999 MHz	x dB -26.00 dB
Transmit Freq Error	-11.268 kHz
x dB Bandwidth	70.696 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.89. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:189, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	67.51	70.76	70	Pass

Agilent
Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 98 GHz Span 140 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (700 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
67.5115 MHz	x dB -26.00 dB
Transmit Freq Error 1.519 kHz	
x dB Bandwidth 70.760 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

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2.90. Occupied Bandwidth for SA_Part22-24-27(Channel:634332, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:189, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3514.98	99	26	1	Peak	67.55	70.83	70	Pass

Agilent
Measure

Ch Freq 3.51498 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.514 98 GHz Span 140 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (700 pts)

Occupied Bandwidth

67.5459 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -33.312 kHz

x dB Bandwidth 70.825 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

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2.91. Occupied Bandwidth for SA_Part22-24-27(Channel:632334, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:189, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3485.01	99	26	1	Peak	67.45	70.74	70	Pass

Agilent
Measure

Ch Freq 3.48501 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.485 01 GHz Span 140 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (700 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
67.4523 MHz	x dB -26.00 dB
Transmit Freq Error 68.574 kHz	
x dB Bandwidth 70.741 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

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2.92. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:189, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	67.56	70.78	70	Pass

Agilent
Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 98 GHz Span 140 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (700 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
67.5587 MHz	x dB -26.00 dB
Transmit Freq Error	76.906 kHz
x dB Bandwidth	70.776 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.93. Occupied Bandwidth for SA_Part22-24-27(Channel:634332, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:189, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3514.98	99	26	1	Peak	67.59	70.8	70	Pass

Agilent
Measure

Ch Freq 3.51498 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.514 98 GHz Span 140 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (700 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
67.5863 MHz	x dB -26.00 dB
Transmit Freq Error 45.475 kHz	
x dB Bandwidth 70.800 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.94. Occupied Bandwidth for SA_Part22-24-27(Channel:632334, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:189, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3485.01	99	26	1	Peak	67.33	70.86	70	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal trace with a yellow line representing the signal level. The trace is centered at 3.48501 GHz with a span of 140 MHz. The signal level is approximately 10 dBm, and the noise floor is around -12.2 dBm. The occupied bandwidth is measured as 67.3333 MHz, which is 99.00% of the channel bandwidth. The XdB down is -26.00 dB. The transmit frequency error is 47.728 kHz, and the XdB bandwidth is 70.863 MHz. The interface also shows various settings such as Res BW (1 MHz), VBW (3 MHz), and Sweep (5 s, 700 pts). The bottom of the screen displays the copyright information: Copyright 2000-2012 Agilent Technologies.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
67.3333 MHz	x dB	-26.00 dB
Transmit Freq Error	47.728 kHz	
x dB Bandwidth	70.863 MHz	

2.95. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:189, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	67.42	70.83	70	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The center frequency is 3.49998 GHz, and the span is 140 MHz. The occupied bandwidth is measured as 67.4151 MHz, which is 99.00% of the 70 MHz channel bandwidth. The XdB down is -26.00 dB. The transmit frequency error is 63.448 kHz, and the x dB bandwidth is 70.833 MHz. The interface includes various measurement controls and a list of available measurement functions on the right side.

Measurement	Value
Occupied Bandwidth	67.4151 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	63.448 kHz
x dB Bandwidth	70.833 MHz

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2.96. Occupied Bandwidth for SA_Part22-24-27(Channel:634332, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:189, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3514.98	99	26	1	Peak	67.46	70.78	70	Pass

Agilent
Measure

Ch Freq 3.51498 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 12.2 dB

Center 3.514 98 GHz Span 140 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (700 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
67.4591 MHz	x dB -26.00 dB
Transmit Freq Error	34.222 kHz
x dB Bandwidth	70.780 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

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2.97. Occupied Bandwidth for SA_Part22-24-27(Channel:632668, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:217, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3490.02	99	26	1	Peak	77.42	80.68	80	Pass

Agilent
Measure

Ch Freq 3.49002 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.490 02 GHz Span 160 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (800 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
77.4196 MHz	x dB -26.00 dB
Transmit Freq Error 41.538 kHz	
x dB Bandwidth 80.676 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.98. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:217, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	77.48	80.91	80	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The results are as follows:

Measurement	Value
Occupied Bandwidth	77.4782 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	26.183 kHz
x dB Bandwidth	80.906 MHz

Additional parameters shown in the interface include: Ch Freq 3.49998 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst 12.3 dB, Center 3.499 98 GHz, Span 160 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (800 pts).

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2.99. Occupied Bandwidth for SA_Part22-24-27(Channel:634000, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:217, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3510	99	26	1	Peak	77.44	80.75	80	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The results are as follows:

Measurement	Value
Occupied Bandwidth	77.4434 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	45.405 kHz
x dB Bandwidth	80.748 MHz

Additional parameters shown in the interface include: Ch Freq 3.51 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst 12.2 dB, Center 3.510 00 GHz, Span 160 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (800 pts).

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2.100. Occupied Bandwidth for SA_Part22-24-27(Channel:632668, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:217, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3490.02	99	26	1	Peak	77.42	80.89	80	Pass

Agilent
Measure

Ch Freq 3.49002 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.490 02 GHz Span 160 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (800 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
77.4226 MHz	x dB -26.00 dB
Transmit Freq Error 23.059 kHz	
x dB Bandwidth 80.888 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.101. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:217, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	77.61	81.06	80	Pass

Agilent
Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 98 GHz Span 160 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (800 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
77.6089 MHz	x dB -26.00 dB
Transmit Freq Error	-11.487 kHz
x dB Bandwidth	81.062 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.102. Occupied Bandwidth for SA_Part22-24-27(Channel:634000, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:217, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3510	99	26	1	Peak	77.59	81	80	Pass

Agilent

Ext Ref

Ch Freq 3.51 GHz **Trig** Free

Occupied Bandwidth Averages: 1

Measure

Ref 30 dBm #Atten 30 dB

#Peak

Log

10

dB/

Offst

12.2

dB

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More

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Occupied Bandwidth	Occ BW % Pwr 99.00 %
77.5867 MHz	x dB -26.00 dB
Transmit Freq Error -1.846 kHz	
x dB Bandwidth 81.001 MHz	

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2.103. Occupied Bandwidth for SA_Part22-24-27(Channel:632668, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:217, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3490.02	99	26	1	Peak	77.32	80.93	80	Pass

Agilent
Measure

Ch Freq 3.49002 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.490 02 GHz Span 160 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (800 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
77.3150 MHz	x dB -26.00 dB
Transmit Freq Error 116.596 kHz	
x dB Bandwidth 80.927 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

2.104. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:217, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	77.4	80.92	80	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The results are as follows:

Measurement	Value
Occupied Bandwidth	77.4007 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	114.266 kHz
x dB Bandwidth	80.918 MHz

Other visible parameters include: Ch Freq 3.49998 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst 12.3 dB, Center 3.499 98 GHz, Span 160 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (800 pts).

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2.105. Occupied Bandwidth for SA_Part22-24-27(Channel:634000, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:217, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3510	99	26	1	Peak	77.34	80.81	80	Pass

Agilent

Ext Ref

Ch Freq 3.51 GHz **Trig** Free

Occupied Bandwidth Averages: 1

Measure

Ref 30 dBm #Atten 30 dB

#Peak

Log

10

dB/

Offst

12.2

dB

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

Occupied Bandwidth	Occ BW % Pwr 99.00 %
77.3409 MHz	x dB -26.00 dB
Transmit Freq Error 113.522 kHz	
x dB Bandwidth 80.809 MHz	

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2.106. Occupied Bandwidth for SA_Part22-24-27(Channel:632668, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:217, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3490.02	99	26	1	Peak	77.31	80.96	80	Pass

Agilent
Measure

Ch Freq 3.49002 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.490 02 GHz Span 160 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (800 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
77.3083 MHz	x dB -26.00 dB
Transmit Freq Error 2.508 kHz	
x dB Bandwidth 80.963 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.107. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:217, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	77.37	80.85	80	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The results are as follows:

Measurement	Value
Occupied Bandwidth	77.3708 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-2.503 kHz
x dB Bandwidth	80.853 MHz

Other visible parameters include: Ch Freq 3.49998 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst 12.3 dB, Center 3.499 98 GHz, Span 160 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (800 pts).

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2.108. Occupied Bandwidth for SA_Part22-24-27(Channel:634000, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:217, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3510	99	26	1	Peak	77.28	80.84	80	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The measurement results are as follows:

Measurement	Value
Occupied Bandwidth	77.2786 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-8.682 kHz
x dB Bandwidth	80.836 MHz

Additional parameters shown in the interface include: Ch Freq 3.51 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak, Log, 10 dB/Offst, 12.2 dB, Center 3.510 00 GHz, Span 160 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (800 pts).

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2.109. Occupied Bandwidth for SA_Part22-24-27(Channel:633000, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:245, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3495	99	26	1	Peak	87.19	90.89	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The results are as follows:

Measurement	Value
Occupied Bandwidth	87.1901 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	18.671 kHz
x dB Bandwidth	90.888 MHz

Additional parameters shown in the interface include: Ch Freq 3.495 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log 10 dB/Offst 12.3 dB, Center 3.495 00 GHz, Span 180 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (900 pts).

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2.110. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:245, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	87.23	91.22	90	Pass

Agilent

Measure
 Meas Off
 Channel Power
Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 3.49998 GHz
Ext Ref Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 98 GHz Span 180 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (900 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
87.2287 MHz	x dB -26.00 dB
Transmit Freq Error	-15.836 kHz
x dB Bandwidth	91.220 MHz

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2.111. Occupied Bandwidth for SA_Part22-24-27(Channel:633666, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:245, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3504.99	99	26	1	Peak	87.24	90.99	90	Pass

Agilent
Measure

Ch Freq 3.50499 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.504 99 GHz Span 180 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (900 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
87.2424 MHz	x dB -26.00 dB
Transmit Freq Error	-29.564 kHz
x dB Bandwidth	90.986 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.112. Occupied Bandwidth for SA_Part22-24-27(Channel:633000, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:245, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3495	99	26	1	Peak	87.28	90.94	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 3.495 GHz. The main display shows a spectrum plot with a yellow trace. The plot parameters include a reference level of 30 dBm, a 30 dB attenuator, a resolution bandwidth of 1 MHz, and a video bandwidth of 3 MHz. The span is 180 MHz. The measurement results are highlighted in a green box:

Occupied Bandwidth	Occ BW % Pwr	99.00 %
87.2822 MHz	x dB	-26.00 dB
Transmit Freq Error		-19.053 kHz
x dB Bandwidth		90.943 MHz

On the right side of the interface, there is a vertical menu with the following options: Measure, Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2).

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2.113. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:245, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	87.28	90.98	90	Pass

Agilent
Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 98 GHz Span 180 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (900 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
87.2811 MHz	x dB -26.00 dB
Transmit Freq Error	-26.549 kHz
x dB Bandwidth	90.981 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.114. Occupied Bandwidth for SA_Part22-24-27(Channel:633666, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:245, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3504.99	99	26	1	Peak	87.34	91.05	90	Pass

Agilent
Measure

Ch Freq 3.50499 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.504 99 GHz Span 180 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (900 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
87.3372 MHz	x dB -26.00 dB
Transmit Freq Error	-24.833 kHz
x dB Bandwidth	91.054 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.115. Occupied Bandwidth for SA_Part22-24-27(Channel:633000, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:245, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3495	99	26	1	Peak	87.39	91.07	90	Pass

Agilent
Measure

Ch Freq 3.495 GHz Trig Free

Occupied Bandwidth Averages: 1

Ext Ref

Ref 30 dBm #Atten 30 dB

Center 3.495 00 GHz Span 180 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (900 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

87.3872 MHz x dB -26.00 dB

Transmit Freq Error 39.339 kHz

x dB Bandwidth 91.066 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.116. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:245, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	87.41	90.95	90	Pass

Agilent

Ext Ref

Ch Freq 3.49998 GHz **Trig** Free

Occupied Bandwidth Averages: 1

Measure
 Meas Off
 Channel Power
 Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ref 30 dBm #Atten 30 dB

#Peak
Log
10
dB/
Offst
12.3
dB

Center 3.499 98 GHz Span 180 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (900 pts)

Occupied Bandwidth **Occ BW % Pwr** 99.00 %

87.4099 MHz **x dB** -26.00 dB

Transmit Freq Error 31.702 kHz

x dB Bandwidth 90.953 MHz

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2.117. Occupied Bandwidth for SA_Part22-24-27(Channel:633666, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:245, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3504.99	99	26	1	Peak	87.46	91.15	90	Pass

Agilent
Measure

Ch Freq 3.50499 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.504 99 GHz Span 180 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (900 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
87.4585 MHz	x dB -26.00 dB
Transmit Freq Error 17.973 kHz	
x dB Bandwidth 91.150 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.118. Occupied Bandwidth for SA_Part22-24-27(Channel:633000, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:245, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3495	99	26	1	Peak	87.45	91.02	90	Pass

Agilent

Measure

Ch Freq 3.495 GHz
Ext Ref

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Trig Free

Log
Ext Ref

10

dB/

Offst

12.3

dB

Center 3.495 00 GHz
Span 180 MHz

#Res BW 1 MHz
#VBW 3 MHz
#Sweep 5 s (900 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
87.4478 MHz	x dB -26.00 dB
Transmit Freq Error 10.295 kHz	
x dB Bandwidth 91.016 MHz	

Power Stat CCDF
More

1 of 2

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2.119. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:245, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	87.51	91.14	90	Pass

Agilent

Measure
 Meas Off
 Channel Power
Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 98 GHz Span 180 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (900 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
87.5056 MHz	x dB	-26.00 dB
Transmit Freq Error	-10.927 kHz	
x dB Bandwidth	91.140 MHz	

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2.120. Occupied Bandwidth for SA_Part22-24-27(Channel:633666, Bandwidth:90, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:245, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3504.99	99	26	1	Peak	87.54	91.02	90	Pass

Agilent
Measure

Ch Freq 3.50499 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.504 99 GHz Span 180 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (900 pts)

Occupied Bandwidth

87.5409 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -18.843 kHz

x dB Bandwidth 91.023 MHz

More
1 of 2

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2.121. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:100, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:273, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	97.23	101.04	100	Pass

Agilent
Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 12.3 dB

Center 3.499 98 GHz Span 200 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (1000 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

97.2343 MHz x dB -26.00 dB

Transmit Freq Error 99.321 kHz

x dB Bandwidth 101.045 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

2.122. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:100, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:273, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	97.35	100.97	100	Pass

Agilent

Measure
 Meas Off
 Channel Power
Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
→
←

10

dB/

Offst

12.3

dB

Center 3.499 98 GHz
Span 200 MHz

#Res BW 1 MHz
#VBW 3 MHz
#Sweep 5 s (1000 pts)

Occupied Bandwidth
Occ BW % Pwr 99.00 %

97.3544 MHz
x dB -26.00 dB

Transmit Freq Error 111.178 kHz

x dB Bandwidth 100.971 MHz

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2.123. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:100, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:273, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	97.23	101.1	100	Pass

Agilent

Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
10

dB/
Offst

12.3
dB

Center 3.499 98 GHz
Span 200 MHz

#Res BW 1 MHz
#VBW 3 MHz
#Sweep 5 s (1000 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
97.2337 MHz	x dB	-26.00 dB
Transmit Freq Error	120.273 kHz	
x dB Bandwidth	101.102 MHz	

Power Stat
CCDF

More
1 of 2

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2.124. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:100, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:273, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	97.39	100.85	100	Pass

Agilent

Measure
 Meas Off
 Channel Power
 Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
10

dB/
Offst

12.3
dB

Center 3.499 98 GHz
Span 200 MHz

#Res BW 1 MHz
#VBW 3 MHz
#Sweep 5 s (1000 pts)

Occupied Bandwidth
97.3881 MHz

Occ BW % Pwr
99.00 %

Transmit Freq Error
125.034 kHz

x dB Bandwidth
100.851 MHz

x dB
-26.00 dB

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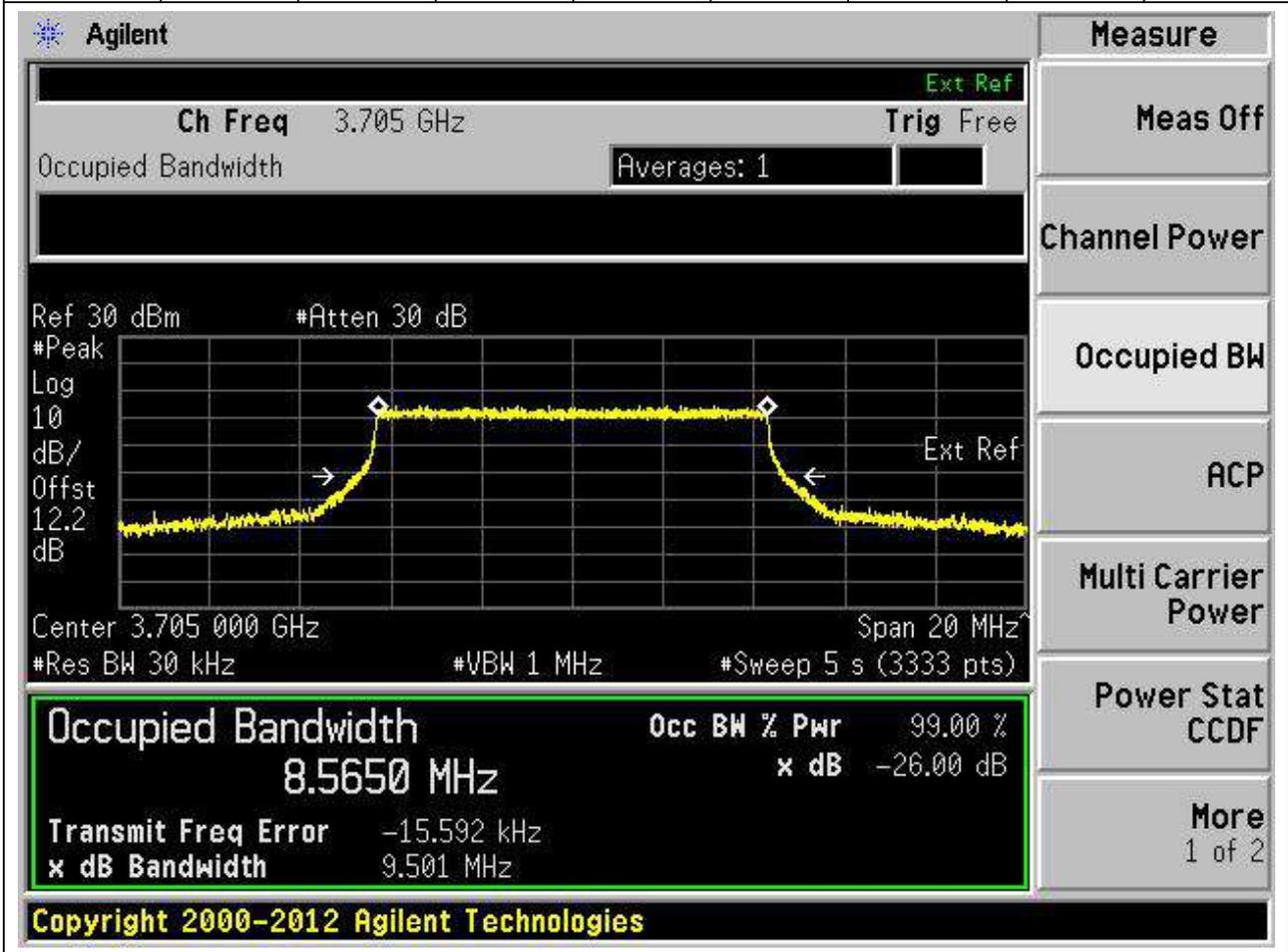
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3. n77(3700-3980)

3.1. Occupied Bandwidth for SA_Part22-24-27(Channel:647000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:24, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3705	99	26	0.03	Peak	8.57	9.5	10	Pass



3.3. Occupied Bandwidth for SA_Part22-24-27(Channel:665000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:24, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3975	99	26	0.03	Peak	8.56	9.58	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The results are as follows:

Measurement	Value
Occupied Bandwidth	8.5613 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-18.964 kHz
x dB Bandwidth	9.577 MHz

Other visible parameters include: Ch Freq 3.975 GHz, Res BW 30 kHz, Span 20 MHz, and a 'Pass' verdict.

3.4. Occupied Bandwidth for SA_Part22-24-27(Channel:647000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:24, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3705	99	26	0.03	Peak	8.56	9.16	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The measurement results are as follows:

Measurement	Value
Occupied Bandwidth	8.5589 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-14.848 kHz
x dB Bandwidth	9.164 MHz

Additional parameters shown in the interface include: Ch Freq 3.705 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 12.2 dB, Center 3.705 000 GHz, Span 20 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (3333 pts).

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3.5. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:24, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	0.03	Peak	8.57	9.48	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The measurement results are as follows:

Measurement	Value
Occupied Bandwidth	8.5680 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-15.330 kHz
x dB Bandwidth	9.480 MHz

Additional parameters shown in the interface include: Ch Freq 3.84 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 12.8 dB, Center 3.840 000 GHz, Span 20 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (3333 pts).

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3.6. Occupied Bandwidth for SA_Part22-24-27(Channel:665000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:24, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3975	99	26	0.03	Peak	8.56	9.39	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The results are as follows:

Measurement	Value
Occupied Bandwidth	8.5579 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-13.562 kHz
x dB Bandwidth	9.390 MHz

Additional parameters shown in the interface include: Ch Freq 3.975 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak, Log, 10 dB/Offst, 13 dB, Center 3.975 000 GHz, Span 20 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (3333 pts).

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3.7. Occupied Bandwidth for SA_Part22-24-27(Channel:647000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:24, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3705	99	26	0.03	Peak	8.58	9.42	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 3.705 GHz, and the span is 20 MHz. The occupied bandwidth is highlighted as 8.5798 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -8.482 kHz, and the XdB bandwidth is 9.424 MHz. The interface includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More'. The bottom of the screen shows the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
8.5798 MHz	x dB	-26.00 dB
Transmit Freq Error	-8.482 kHz	
x dB Bandwidth	9.424 MHz	

3.8. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:24, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	0.03	Peak	8.58	9.36	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The measurement results are as follows:

Measurement	Value
Occupied Bandwidth	8.5811 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-11.492 kHz
x dB Bandwidth	9.364 MHz

Additional parameters shown in the interface include: Ch Freq 3.84 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 12.8 dB, Center 3.840 000 GHz, Span 20 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (3333 pts).

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3.9. Occupied Bandwidth for SA_Part22-24-27(Channel:665000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:24, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3975	99	26	0.03	Peak	8.59	9.65	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The results are as follows:

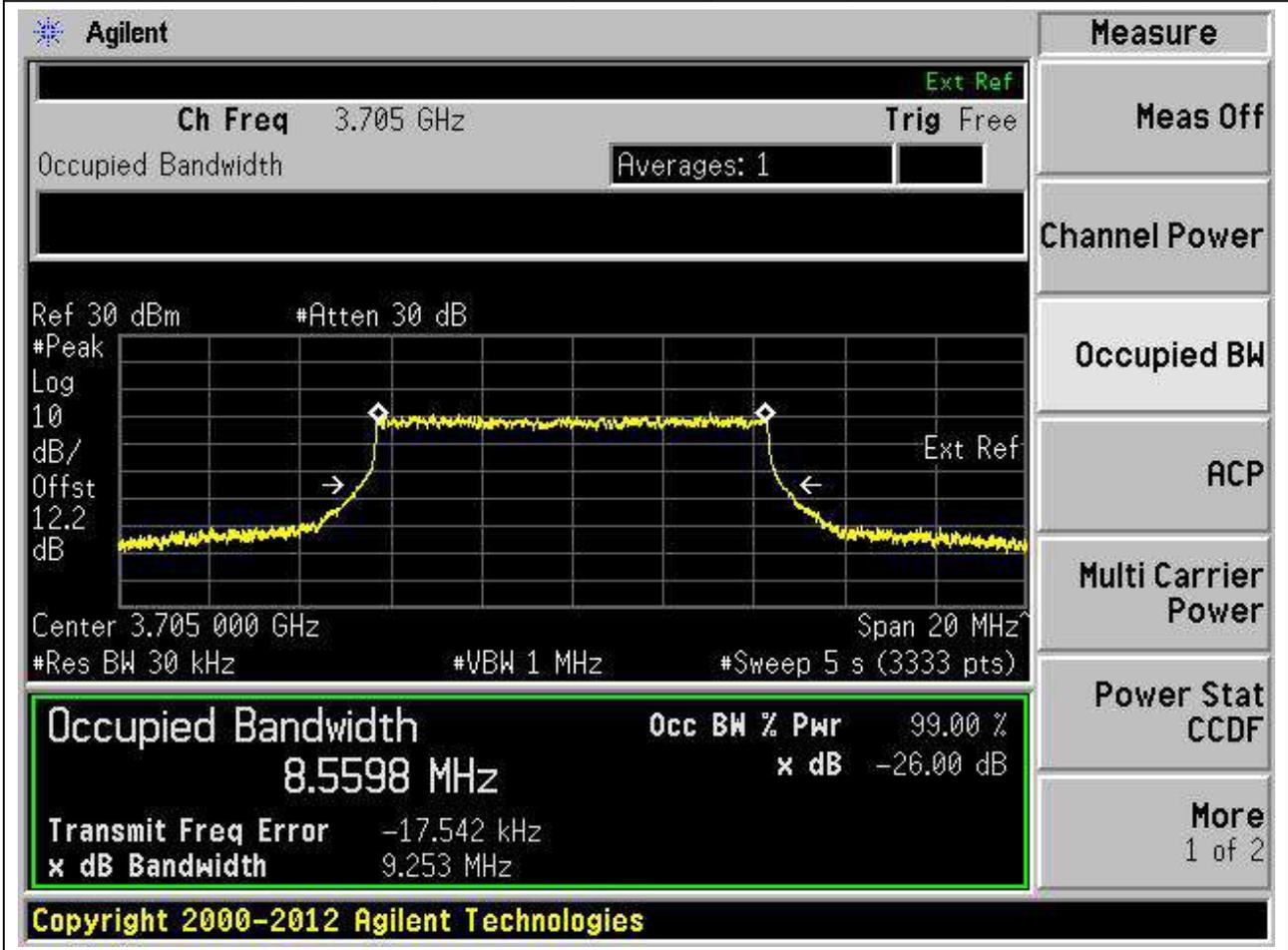
Measurement	Value
Occupied Bandwidth	8.5885 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-20.087 kHz
x dB Bandwidth	9.648 MHz

Additional parameters shown in the interface include: Ch Freq 3.975 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak, Log, 10 dB/Offst, 13 dB, Center 3.975 000 GHz, Span 20 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (3333 pts).

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3.10. Occupied Bandwidth for SA_Part22-24-27(Channel:647000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:24, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3705	99	26	0.03	Peak	8.56	9.25	10	Pass



3.11. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:24, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	0.03	Peak	8.57	9.25	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The center frequency is 3.84 GHz, and the span is 20 MHz. The occupied bandwidth is highlighted as 8.5662 MHz. The power is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -13.811 kHz, and the XdB bandwidth is 9.248 MHz. The interface includes various measurement buttons on the right side, such as 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen shows the copyright information: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
8.5662 MHz	x dB	-26.00 dB
Transmit Freq Error	-13.811 kHz	
x dB Bandwidth	9.248 MHz	

3.12. Occupied Bandwidth for SA_Part22-24-27(Channel:665000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:24, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3975	99	26	0.03	Peak	8.55	9.15	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow signal trace. The plot is centered at 3.975 GHz with a span of 20 MHz. The signal level is approximately 0 dBm, and the noise floor is around -130 dBm. The occupied bandwidth is highlighted with a green box, showing a value of 8.5523 MHz. The power level is 99.00% and the XdB bandwidth is -26.00 dB. The transmit frequency error is -16.977 kHz and the XdB bandwidth is 9.148 MHz. The interface includes various measurement controls and a list of measurement options on the right side.

Measurement	Value
Occupied Bandwidth	8.5523 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-16.977 kHz
x dB Bandwidth	9.148 MHz

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3.13. Occupied Bandwidth for SA_Part22-24-27(Channel:647168, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:38, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3707.52	99	26	0.03	Peak	13.55	14.42	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The measurement results are as follows:

Measurement	Value
Occupied Bandwidth	13.5496 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-8.815 kHz
x dB Bandwidth	14.425 MHz

Other visible parameters include: Ch Freq 3.70752 GHz, Trigg Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 12.2 dB, Center 3.707 520 GHz, Span 30 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (5000 pts).

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3.14. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:38, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	0.03	Peak	13.56	14.58	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The measurement results are as follows:

Measurement	Value
Occupied Bandwidth	13.5608 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-12.443 kHz
x dB Bandwidth	14.584 MHz

Other visible parameters include: Ch Freq 3.84 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 12.8 dB, Center 3.840 000 GHz, Span 30 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (5000 pts).

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3.15. Occupied Bandwidth for SA_Part22-24-27(Channel:664832, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:38, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3972.48	99	26	0.03	Peak	13.55	14.48	15	Pass

Agilent

Measure
 Meas Off
 Channel Power
Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 3.97248 GHz
Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
10

dB/
Offst

13
dB

Center 3.972 480 GHz
Span 30 MHz

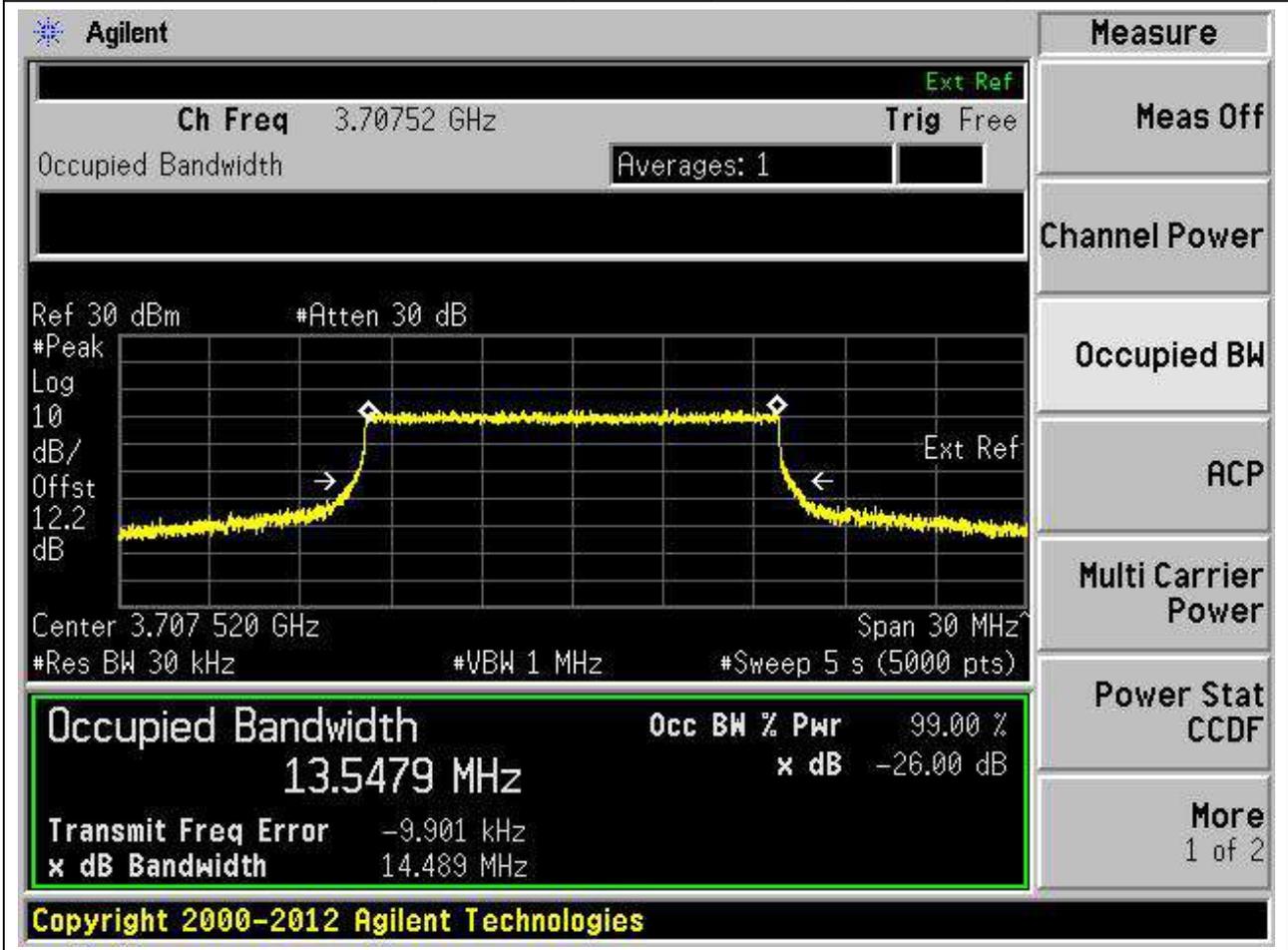
#Res BW 30 kHz
#VBW 1 MHz
#Sweep 5 s (5000 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
13.5519 MHz	x dB -26.00 dB
Transmit Freq Error	-11.546 kHz
x dB Bandwidth	14.475 MHz

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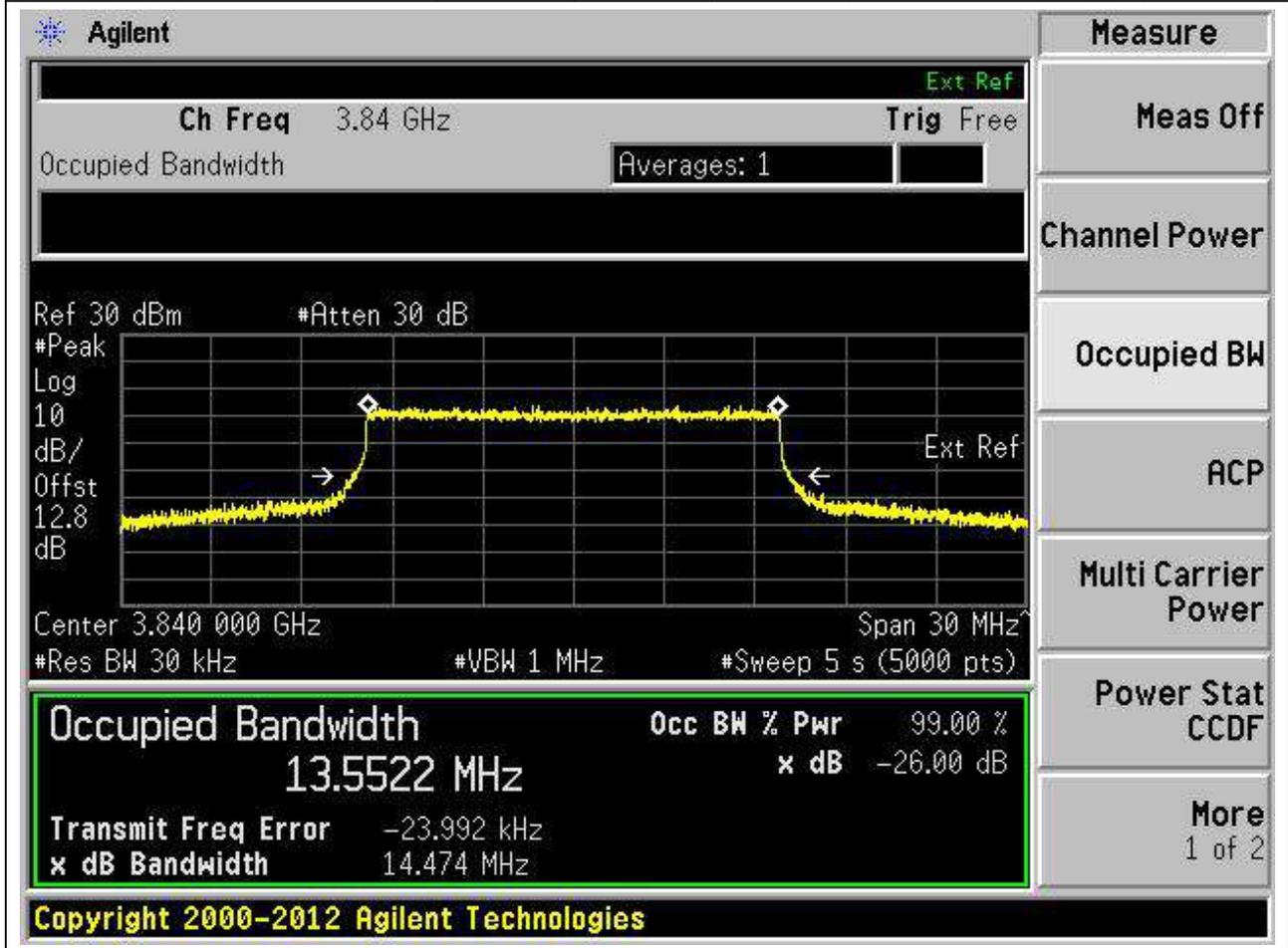
3.16. Occupied Bandwidth for SA_Part22-24-27(Channel:647168, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:38, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3707.52	99	26	0.03	Peak	13.55	14.49	15	Pass



3.17. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:38, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	0.03	Peak	13.55	14.47	15	Pass



3.18. Occupied Bandwidth for SA_Part22-24-27(Channel:664832, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:38, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3972.48	99	26	0.03	Peak	13.55	14.47	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The results are as follows:

Measurement	Value
Occupied Bandwidth	13.5517 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-9.277 kHz
x dB Bandwidth	14.472 MHz

Additional parameters shown in the interface include: Ch Freq 3.97248 GHz, Res BW 30 kHz, Span 30 MHz, and Sweep 5 s (5000 pts). The interface also features a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'.

3.19. Occupied Bandwidth for SA_Part22-24-27(Channel:647168, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:38, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3707.52	99	26	0.03	Peak	13.57	14.44	15	Pass

Agilent
Measure

Ch Freq 3.70752 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
10

dB/
Offst

12.2
dB

Center 3.707 520 GHz
Span 30 MHz

#Res BW 30 kHz
#VBW 1 MHz
#Sweep 5 s (5000 pts)

Occupied Bandwidth
Occ BW % Pwr 99.00 %

13.5730 MHz
x dB -26.00 dB

Transmit Freq Error -19.523 kHz

x dB Bandwidth 14.444 MHz

Power Stat CCDF

More 1 of 2

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3.20. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:38, RB Position:0)

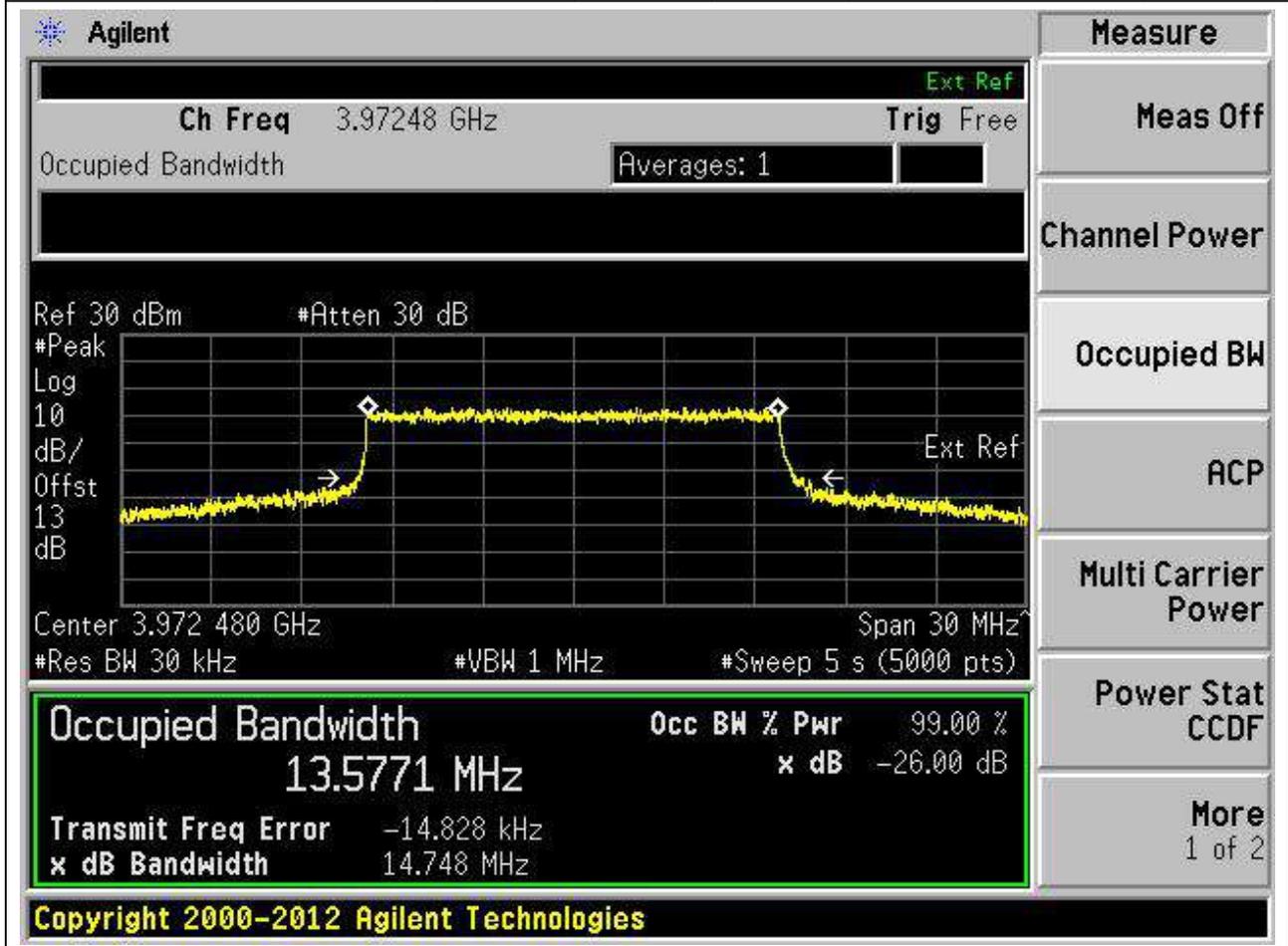
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	0.03	Peak	13.58	14.68	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow signal trace. The plot is set to a center frequency of 3.84 GHz and a span of 30 MHz. The signal level is approximately 10 dBm, and the noise floor is around -12.8 dBm. The occupied bandwidth is measured as 13.5802 MHz, which is 99.00% of the total bandwidth. The XdB down is -26.00 dB. The transmit frequency error is -24.602 kHz, and the XdB bandwidth is 14.676 MHz. The interface includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More'. The bottom of the screen shows the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
13.5802 MHz	x dB	-26.00 dB
Transmit Freq Error		-24.602 kHz
x dB Bandwidth		14.676 MHz

3.21. Occupied Bandwidth for SA_Part22-24-27(Channel:664832, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:38, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3972.48	99	26	0.03	Peak	13.58	14.75	15	Pass



3.22. Occupied Bandwidth for SA_Part22-24-27(Channel:647168, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:38, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3707.52	99	26	0.03	Peak	13.57	14.29	15	Pass

Agilent
Measure

Ch Freq 3.70752 GHz
Ext Ref

Occupied Bandwidth
Trig Free

Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
10

dB/
Offst

12.2
dB

Center 3.707 520 GHz
Span 30 MHz

#Res BW 30 kHz
#VBW 1 MHz
#Sweep 5 s (5000 pts)

Occupied Bandwidth
Occ BW % Pwr 99.00 %

13.5710 MHz
x dB -26.00 dB

Transmit Freq Error -9.991 kHz

x dB Bandwidth 14.291 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

3.23. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:38, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	0.03	Peak	13.54	14.43	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow signal trace. The plot is centered at 3.840 000 GHz with a span of 30 MHz. The y-axis is labeled 'Log 10 dB/Offst 12.8 dB'. The plot shows a signal with a flat top and sloping sides, indicating a multi-carrier signal. Two white diamonds mark the -26 dB points on the signal, and a horizontal line connects them, representing the occupied bandwidth. The text 'Ext Ref' is visible in the top right of the plot area.

Below the plot, the following parameters are displayed:

- Center: 3.840 000 GHz
- Span: 30 MHz
- #Res BW: 30 kHz
- #VBW: 1 MHz
- #Sweep: 5 s (5000 pts)

The measurement results are shown in a green-bordered box:

Occupied Bandwidth	Occ BW % Pwr	99.00 %
13.5433 MHz	x dB	-26.00 dB
Transmit Freq Error		-15.552 kHz
x dB Bandwidth		14.427 MHz

On the right side of the interface, there is a vertical menu with the following options:

- Measure
- Meas Off
- Channel Power
- Occupied BW
- ACP
- Multi Carrier Power
- Power Stat CCDF
- More 1 of 2

At the bottom of the interface, the copyright notice reads: Copyright 2000-2012 Agilent Technologies

3.24. Occupied Bandwidth for SA_Part22-24-27(Channel:664832, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:38, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3972.48	99	26	0.03	Peak	13.57	14.22	15	Pass

Agilent

Measure

Ch Freq 3.97248 GHz
Ext Ref

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Trig Free

Log
Ext Ref

10

dB/

Offst

13

dB

Center 3.972 480 GHz
Span 30 MHz

#Res BW 30 kHz
#VBW 1 MHz
#Sweep 5 s (5000 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
13.5667 MHz	x dB -26.00 dB
Transmit Freq Error -8.737 kHz	
x dB Bandwidth 14.220 MHz	

Power Stat CCDF
More

1 of 2

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3.25. Occupied Bandwidth for SA_Part22-24-27(Channel:647334, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3710.01	99	26	0.03	Peak	18.2	19.14	20	Pass

Agilent

Measure
 Meas Off
 Channel Power
 Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 3.71001 GHz
Ext Ref

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
Span 40 MHz

10
#Res BW 30 kHz

dB/
#VBW 1 MHz

Offst
#Sweep 5 s (6666 pts)

12.2

dB

Center 3.710 010 GHz
Span 40 MHz

Occupied Bandwidth	Occ BW % Pwr 99.00 %
18.1996 MHz	x dB -26.00 dB
Transmit Freq Error	-20.297 kHz
x dB Bandwidth	19.136 MHz

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3.26. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	0.03	Peak	18.18	19.33	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a yellow signal trace on a grid. The center frequency is 3.84 GHz, and the span is 40 MHz. The occupied bandwidth is highlighted in green at the bottom of the screen.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
18.1840 MHz		x dB	-26.00 dB
Transmit Freq Error		-28.555 kHz	
x dB Bandwidth		19.333 MHz	

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3.27. Occupied Bandwidth for SA_Part22-24-27(Channel:664666, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3969.99	99	26	0.03	Peak	18.2	19.33	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box. The measurement results are as follows:

Measurement	Value
Occupied Bandwidth	18.2027 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-21.306 kHz
x dB Bandwidth	19.330 MHz

Additional parameters shown in the interface include: Ch Freq 3.96999 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log 10 dB/Offst 13.1 dB, Center 3.969 990 GHz, Span 40 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (6666 pts).

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3.28. Occupied Bandwidth for SA_Part22-24-27(Channel:647334, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3710.01	99	26	0.03	Peak	18.19	19.06	20	Pass

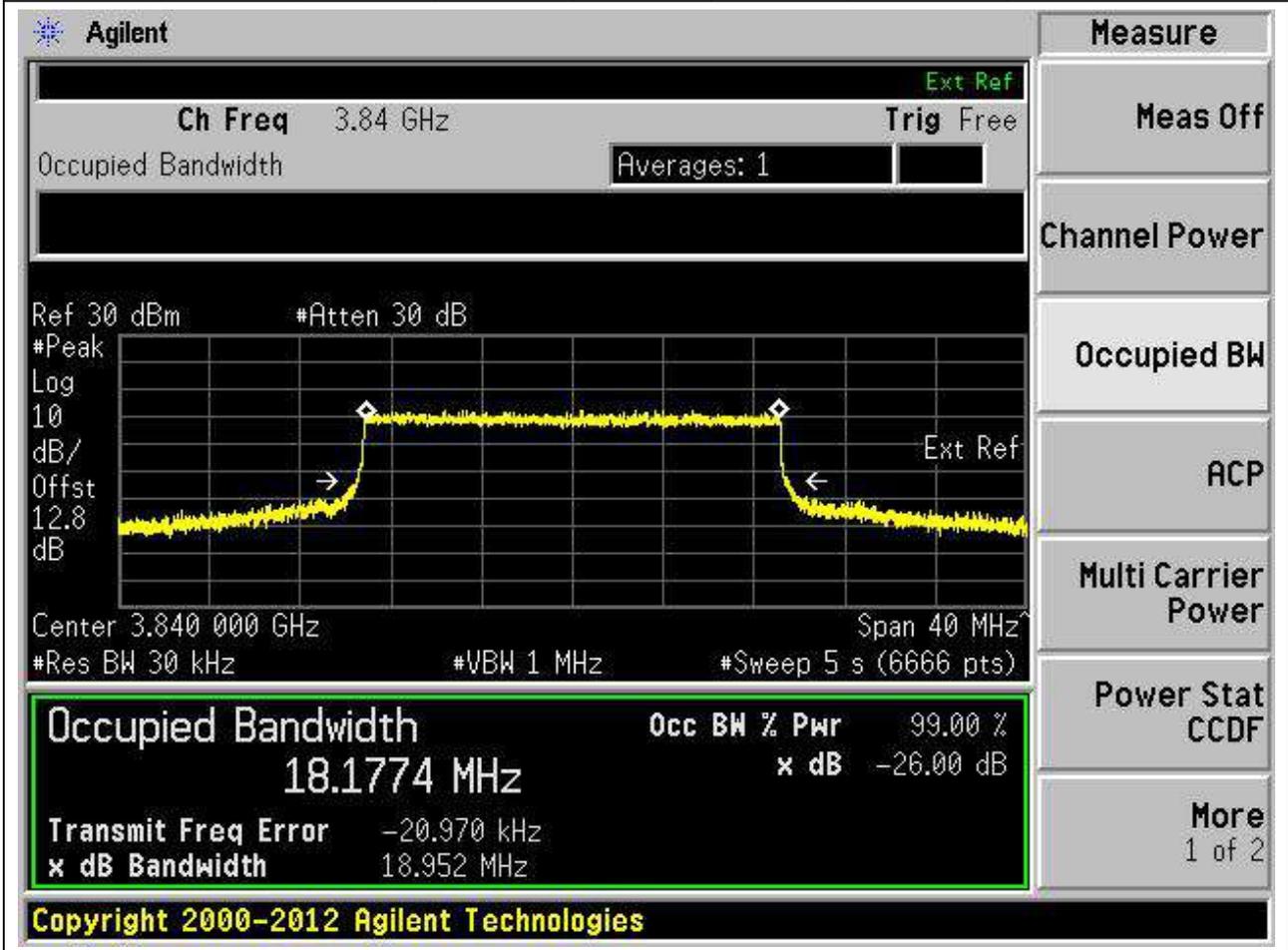
The screenshot displays the Agilent spectrum analyzer interface. The main display shows a yellow signal trace on a grid. The center frequency is 3.71001 GHz, and the span is 40 MHz. The occupied bandwidth is highlighted as 18.1905 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The interface includes various measurement controls and a list of measurement options on the right side.

Occupied Bandwidth		Occ BW % Pwr	99.00 %
18.1905 MHz		x dB	-26.00 dB
Transmit Freq Error	-15.697 kHz		
x dB Bandwidth	19.064 MHz		

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3.29. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	0.03	Peak	18.18	18.95	20	Pass



3.30. Occupied Bandwidth for SA_Part22-24-27(Channel:664666, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3969.99	99	26	0.03	Peak	18.17	19.07	20	Pass

Agilent
Measure

Ch Freq 3.96999 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 13.1 dB

Center 3.969 990 GHz Span 40 MHz

#Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (6666 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
18.1708 MHz	x dB -26.00 dB
Transmit Freq Error -16.467 kHz	
x dB Bandwidth 19.068 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

3.31. Occupied Bandwidth for SA_Part22-24-27(Channel:647334, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3710.01	99	26	0.03	Peak	18.18	18.98	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The y-axis is labeled 'Log 10 dB/Offst 12.2 dB' and the x-axis is 'Center 3.710 010 GHz'. The plot shows a signal with a flat top and sloping sides, characteristic of a modulated signal. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen.

Occupied Bandwidth 18.1792 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -15.824 kHz
x dB Bandwidth 18.981 MHz

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On the right side of the interface, there is a 'Measure' menu with the following options: Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2).

3.32. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	0.03	Peak	18.17	19.08	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow signal trace. The plot is centered at 3.840 000 GHz with a span of 40 MHz. The vertical axis is labeled 'Log 10 dB/Offst 12.8 dB'. The horizontal axis is labeled '#Res BW 30 kHz', '#VBW 1 MHz', and '#Sweep 5 s (6666 pts)'. The signal trace shows a flat top with a slight dip in the center, indicating a multi-carrier signal. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 18.1671 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -22.915 kHz and the 'x dB Bandwidth' is 19.084 MHz. The 'Verdict' is 'Pass'.

Occupied Bandwidth	Occ BW % Pwr	x dB
18.1671 MHz	99.00 %	-26.00 dB

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3.33. Occupied Bandwidth for SA_Part22-24-27(Channel:664666, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3969.99	99	26	0.03	Peak	18.18	19.13	20	Pass

Agilent
Measure

Ch Freq 3.96999 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.969 990 GHz Span 40 MHz
 #Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (6666 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %
18.1848 MHz x dB -26.00 dB

Transmit Freq Error -8.856 kHz
 x dB Bandwidth 19.134 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

3.34. Occupied Bandwidth for SA_Part22-24-27(Channel:647334, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3710.01	99	26	0.03	Peak	18.18	18.94	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 3.71001 GHz. The main display shows a spectrum plot with a yellow signal trace. The plot parameters include a reference level of 30 dBm, a 30 dB attenuator, a resolution bandwidth of 30 kHz, and a video bandwidth of 1 MHz. The span is 40 MHz, and the sweep time is 5 seconds. The Occupied Bandwidth (OBW) is measured as 18.1820 MHz, with a power of 99.00% and a -26.00 dB offset. The transmit frequency error is -9.802 kHz, and the x dB bandwidth is 18.941 MHz. The interface includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More'. The bottom of the screen shows the copyright notice for Agilent Technologies from 2000 to 2012.

3.35. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	0.03	Peak	18.19	19.06	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow signal trace. The center frequency is 3.84 GHz, and the span is 40 MHz. The occupied bandwidth is highlighted as 18.1916 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -17.057 kHz, and the XdB bandwidth is 19.059 MHz. The interface includes various measurement controls and a list of measurement options on the right side.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
18.1916 MHz	x dB	-26.00 dB
Transmit Freq Error	-17.057 kHz	
x dB Bandwidth	19.059 MHz	

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3.36. Occupied Bandwidth for SA_Part22-24-27(Channel:664666, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:51, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3969.99	99	26	0.03	Peak	18.17	18.94	20	Pass

Agilent
Measure

Ch Freq 3.96999 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 13.1 dB

Center 3.969 990 GHz Span 40 MHz

#Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (6666 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

18.1726 MHz x dB -26.00 dB

Transmit Freq Error -15.753 kHz

x dB Bandwidth 18.940 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

3.1. Occupied Bandwidth for SA_Part22-24-27(Channel:647500, Bandwidth:25, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:65, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3712.5	99	26	1	Peak	23.53	26.21	25	Pass

Agilent
Measure

Ch Freq 3.7125 GHz Trig Free

Occupied Bandwidth Averages: 1

Center 3.712 500 GHz Span 50 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

Occupied Bandwidth

23.5290 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error 14.011 kHz

x dB Bandwidth 26.215 MHz

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3.2. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:25, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:65, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	1	Peak	23.5	26.16	25	Pass

Agilent
Measure

Ch Freq 3.84 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.840 000 GHz Span 50 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
23.5049 MHz	x dB -26.00 dB
Transmit Freq Error	-18.797 kHz
x dB Bandwidth	26.155 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

3.3. Occupied Bandwidth for SA_Part22-24-27(Channel:664500, Bandwidth:25, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:65, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3967.5	99	26	1	Peak	23.6	26.33	25	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 3.9675 GHz. The Occupied Bandwidth (OBW) is measured as 23.5950 MHz, which is 99.00% of the channel bandwidth. The XdB Down is -26.00 dB. The transmit frequency error is -7.631 kHz, and the x dB bandwidth is 26.331 MHz. The interface includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More'. The bottom of the screen shows the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
23.5950 MHz	x dB	-26.00 dB
Transmit Freq Error	-7.631 kHz	
x dB Bandwidth	26.331 MHz	

3.4. Occupied Bandwidth for SA_Part22-24-27(Channel:647500, Bandwidth:25, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:65, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3712.5	99	26	1	Peak	23.65	26.27	25	Pass

Agilent
Measure

Ch Freq 3.7125 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.712500 GHz Span 50 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
23.6465 MHz	x dB -26.00 dB
Transmit Freq Error	-22.211 kHz
x dB Bandwidth	26.273 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

3.5. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:25, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:65, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	1	Peak	23.64	26.19	25	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 3.84 GHz. The 'Occupied Bandwidth' measurement is highlighted in a green box, showing a value of 23.6368 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters shown include Transmit Freq Error (-56.833 kHz) and x dB Bandwidth (26.194 MHz). The interface also includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen displays the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

3.6. Occupied Bandwidth for SA_Part22-24-27(Channel:664500, Bandwidth:25, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:65, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3967.5	99	26	1	Peak	23.7	26.43	25	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 3.9675 GHz. The 'Occupied Bandwidth' measurement is highlighted in a green box, showing a value of 23.6961 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters shown include Transmit Freq Error (-47.394 kHz) and x dB Bandwidth (26.432 MHz). The interface also includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen displays the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

3.7. Occupied Bandwidth for SA_Part22-24-27(Channel:647500, Bandwidth:25, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:65, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3712.5	99	26	1	Peak	23.62	26.18	25	Pass

Agilent
Measure

Ch Freq 3.7125 GHz Ext Ref

Occupied Bandwidth Trig Free

Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

Ref 30 dBm #Atten 30 dB

Center 3.712 500 GHz Span 50 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

23.6162 MHz x dB -26.00 dB

Transmit Freq Error -40.159 kHz

x dB Bandwidth 26.181 MHz

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3.8. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:25, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:65, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	1	Peak	23.62	26.27	25	Pass

Agilent
Measure

Ch Freq 3.84 GHz Trig Free

Occupied Bandwidth Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

Occupied Bandwidth

23.6179 MHz

Transmit Freq Error -92.319 kHz

x dB Bandwidth 26.272 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

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3.9. Occupied Bandwidth for SA_Part22-24-27(Channel:664500, Bandwidth:25, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:65, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3967.5	99	26	1	Peak	23.7	26.31	25	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 3.9675 GHz. The Occupied Bandwidth (OBW) is measured as 23.7029 MHz, which is 99.00% of the channel bandwidth. The XdB Down is -26.00 dB. The transmit frequency error is -76.229 kHz, and the x dB bandwidth is 26.314 MHz. The interface includes various measurement controls and a list of measurement options on the right side.

Measurement	Value
Occupied Bandwidth	23.7029 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-76.229 kHz
x dB Bandwidth	26.314 MHz

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3.10. Occupied Bandwidth for SA_Part22-24-27(Channel:647500, Bandwidth:25, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:65, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3712.5	99	26	1	Peak	23.69	26.34	25	Pass

Agilent
Measure

Ch Freq 3.7125 GHz Ext Ref

Occupied Bandwidth Trig Free

Averages: 1

Occupied Bandwidth

23.6887 MHz

Transmit Freq Error 15.747 kHz

x dB Bandwidth 26.342 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Power Stat CCDF

More 1 of 2

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3.11. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:25, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:65, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	1	Peak	23.68	26.14	25	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 3.84 GHz. The 'Occupied Bandwidth' measurement is highlighted in a green box, showing a value of 23.6835 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters shown include Transmit Freq Error (-14.904 kHz) and x dB Bandwidth (26.144 MHz). The interface also includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen displays the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

3.12. Occupied Bandwidth for SA_Part22-24-27(Channel:664500, Bandwidth:25, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:65, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3967.5	99	26	1	Peak	23.71	26.2	25	Pass

Agilent

Measure
 Meas Off
 Channel Power
Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 3.9675 GHz
Ext Ref Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.967 500 GHz Span 50 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
23.7141 MHz	x dB	-26.00 dB
Transmit Freq Error	-9.633 kHz	
x dB Bandwidth	26.201 MHz	

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3.13. Occupied Bandwidth for SA_Part22-24-27(Channel:647668, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:78, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3715.02	99	26	1	Peak	28.2	31.01	30	Pass

Agilent
Measure

Ch Freq 3.71502 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.715 02 GHz Span 60 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %
 28.1984 MHz x dB -26.00 dB

Transmit Freq Error 53.761 kHz
 x dB Bandwidth 31.007 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

3.14. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:78, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	1	Peak	28.22	31.01	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The y-axis is labeled 'Log dB/Offst' with values 10, 12.8, and dB. The x-axis is labeled 'Center' with a value of 3.840 00 GHz and 'Span' with a value of 60 MHz. The plot shows a signal with a peak at approximately 3.84 GHz. The 'Occupied Bandwidth' is highlighted in a green box with the following values:

Occupied Bandwidth	Occ BW % Pwr	99.00 %
28.2177 MHz	x dB	-26.00 dB
Transmit Freq Error		-8.435 kHz
x dB Bandwidth		31.015 MHz

Other visible parameters include: Ch Freq 3.84 GHz, Trig Free, Averages: 1, Res BW 1 MHz, VBW 3 MHz, Sweep 5 s (401 pts). The 'Measure' menu on the right includes options like Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2).

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3.15. Occupied Bandwidth for SA_Part22-24-27(Channel:664332, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:78, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3964.98	99	26	1	Peak	28.3	31.01	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 3.96498 GHz. The Occupied Bandwidth is measured as 28.2951 MHz, which is 99.00% of the 30 MHz channel bandwidth. The XdB Down is -26.00 dB. The transmit frequency error is 14.077 kHz, and the x dB bandwidth is 31.014 MHz. The interface includes various measurement controls and a list of available measurement functions on the right side.

Measurement	Value
Occupied Bandwidth	28.2951 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	14.077 kHz
x dB Bandwidth	31.014 MHz

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3.16. Occupied Bandwidth for SA_Part22-24-27(Channel:647668, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:78, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3715.02	99	26	1	Peak	28.14	30.7	30	Pass

Agilent

Measure

Ch Freq 3.71502 GHz
Ext Ref

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Trig Free

Log
Ext Ref

10

dB/

Offst

12.2

dB

Center 3.715 02 GHz
Span 60 MHz

#Res BW 1 MHz
#VBW 3 MHz
#Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
28.1450 MHz	x dB -26.00 dB
Transmit Freq Error	-28.510 kHz
x dB Bandwidth	30.696 MHz

Power Stat
More

CCDF
1 of 2

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3.17. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:78, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	1	Peak	28.14	30.77	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 3.84 GHz. The 'Occupied Bandwidth' measurement is highlighted in a green box, showing a value of 28.1420 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters shown include Transmit Freq Error (-85.185 kHz) and x dB Bandwidth (30.772 MHz). The interface also includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen displays the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

3.18. Occupied Bandwidth for SA_Part22-24-27(Channel:664332, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:78, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3964.98	99	26	1	Peak	28.24	30.81	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The y-axis is labeled 'Log dB/Offst 13.1 dB' and the x-axis is 'Center 3.964 98 GHz'. The plot shows a signal with a peak at approximately 3.96498 GHz. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 28.2406 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -62.910 kHz and the 'x dB Bandwidth' is 30.814 MHz. The interface also shows various measurement buttons on the right side, such as 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen displays the copyright information: 'Copyright 2000-2012 Agilent Technologies'.

3.19. Occupied Bandwidth for SA_Part22-24-27(Channel:647668, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:78, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3715.02	99	26	1	Peak	28.26	31.19	30	Pass

Agilent
Measure

Ch Freq 3.71502 GHz Ext Ref

Occupied Bandwidth Trig Free

Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

Occupied Bandwidth

28.2600 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -23.719 kHz

x dB Bandwidth 31.187 MHz

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3.20. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:78, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	1	Peak	28.25	31.08	30	Pass

Agilent
Measure

Ch Freq 3.84 GHz Ext Ref

Occupied Bandwidth Trig Free

Averages: 1

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

Ref 30 dBm #Atten 30 dB

Center 3.840 00 GHz Span 60 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

28.2518 MHz x dB -26.00 dB

Transmit Freq Error -76.135 kHz

x dB Bandwidth 31.075 MHz

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3.21. Occupied Bandwidth for SA_Part22-24-27(Channel:664332, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:78, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3964.98	99	26	1	Peak	28.34	31.16	30	Pass

Agilent
Measure

Ch Freq 3.96498 GHz Trig Free

Occupied Bandwidth Averages: 1

Occupied Bandwidth 28.3442 MHz

Transmit Freq Error -81.404 kHz

x dB Bandwidth 31.156 MHz

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

Ext Ref

Ref 30 dBm #Atten 30 dB

#Peak

Log 10 dB/Offst 13.1 dB

Center 3.964 98 GHz Span 60 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occ BW % Pwr 99.00 %

x dB -26.00 dB

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3.22. Occupied Bandwidth for SA_Part22-24-27(Channel:647668, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:78, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3715.02	99	26	1	Peak	28.2	30.8	30	Pass

Agilent

Measure
 Meas Off
 Channel Power
Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
 1 of 2

Ch Freq 3.71502 GHz
Ext Ref Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

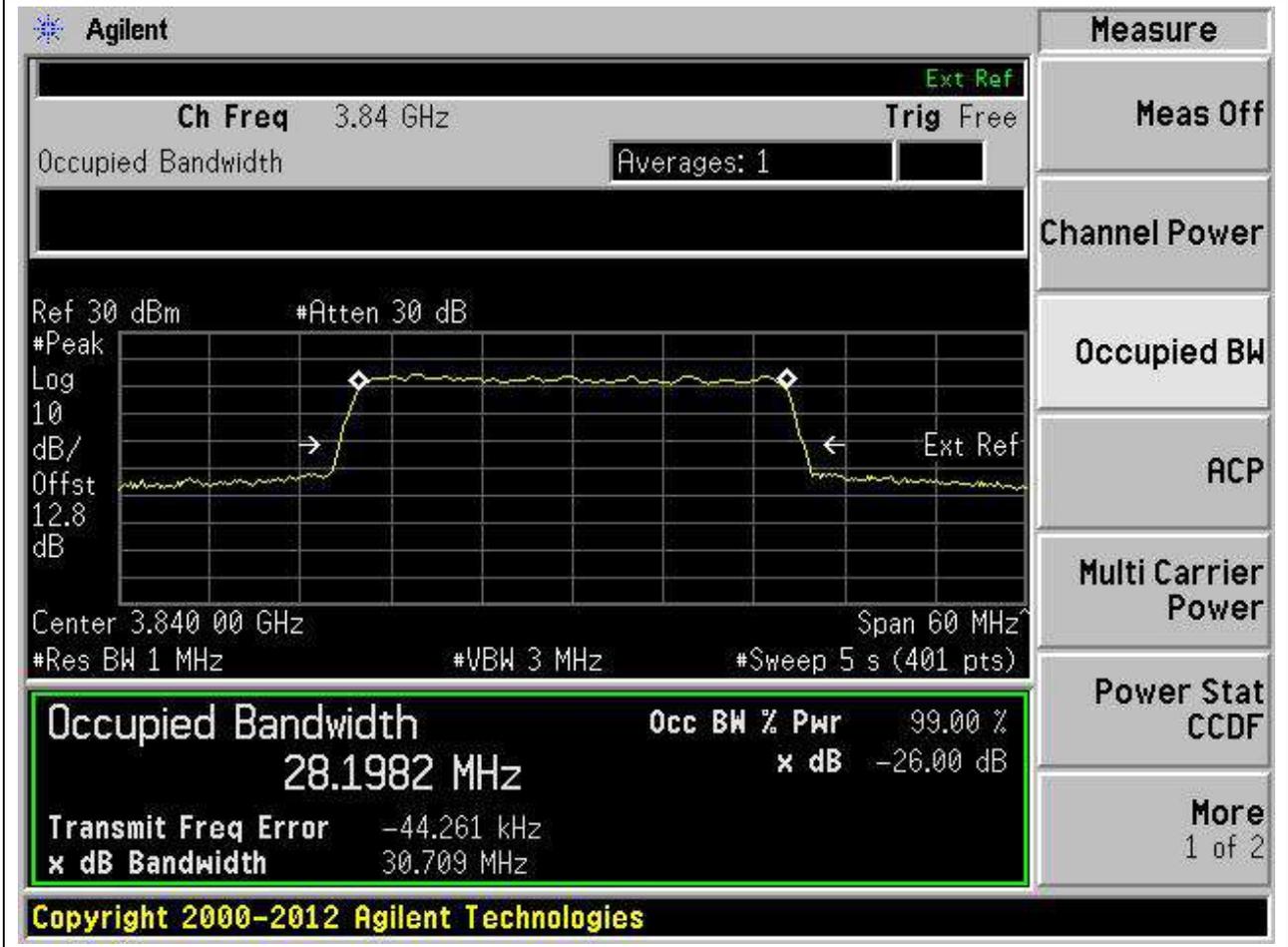
Center 3.715 02 GHz Span 60 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
28.1962 MHz	x dB	-26.00 dB
Transmit Freq Error	-14.212 kHz	
x dB Bandwidth	30.803 MHz	

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3.23. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:78, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	1	Peak	28.2	30.71	30	Pass



3.24. Occupied Bandwidth for SA_Part22-24-27(Channel:664332, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:78, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3964.98	99	26	1	Peak	28.27	30.77	30	Pass

Agilent
Measure

Ch Freq 3.96498 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.964 98 GHz Span 60 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
28.2712 MHz	x dB -26.00 dB
Transmit Freq Error	-39.323 kHz
x dB Bandwidth	30.775 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

3.37. Occupied Bandwidth for SA_Part22-24-27(Channel:648000, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3720	99	26	1	Peak	38.21	41.23	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 3.72 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a peak at 3.72 GHz. The plot parameters include 'Ref 30 dBm', '#Atten 30 dB', 'Log', '10 dB/Offst', and '12.2 dB'. The plot shows a signal with a peak at 3.72 GHz and a bandwidth of 41.23 MHz. The 'Occupied Bandwidth' is measured as 38.2065 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is 37.988 kHz and the 'x dB Bandwidth' is 41.232 MHz. The 'Center' is 3.720 0 GHz and the 'Span' is 80 MHz. The 'Res BW' is 1 MHz, the 'VBW' is 3 MHz, and the 'Sweep' is 5 s (401 pts). The 'Measure' menu on the right includes 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth	Occ BW % Pwr	x dB
38.2065 MHz	99.00 %	-26.00 dB

Transmit Freq Error: 37.988 kHz
x dB Bandwidth: 41.232 MHz

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3.38. Occupied Bandwidth for SA_Part22-24-27(Channel:656000, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3840	99	26	1	Peak	38.21	41.12	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The y-axis is labeled 'Log dB/Offst 12.8 dB' and the x-axis is 'Center 3.840 0 GHz'. The plot shows a signal with a peak at approximately 38.21 GHz. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 38.2098 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -7.746 kHz and the 'x dB Bandwidth' is 41.124 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth	Occ BW % Pwr	x dB
38.2098 MHz	99.00 %	-26.00 dB