

1.8. 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	77.37	80.86	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	77.3714 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	93.103 kHz
x dB Bandwidth	80.858 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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1.110. 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	77.51	80.99	80	Pass

Agilent

Measure

Ch Freq 3.49002 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
Ext Ref

10

dB/

Offst

12.3

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 %
77.5140 MHz	x dB -26.00 dB
Transmit Freq Error 19.991 MHz	
x dB Bandwidth 80.994 MHz	

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

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1.111. 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	77.43	80.95	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 %
77.4265 MHz	x dB -26.00 dB
Transmit Freq Error	-59.332 kHz
x dB Bandwidth	80.949 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

1.112. 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	77.34	80.88	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	77.3364 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-55.766 kHz
x dB Bandwidth	80.885 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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1.113. 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	87.26	90.79	90	Pass

Agilent
Measure

Ch Freq 3.495 GHz Ext Ref

Trig Free

Occupied Bandwidth 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 3.495 00 GHz Span 180 MHz

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

Occupied Bandwidth Occ BW % Pwr 99.00 %

87.2643 MHz x dB -26.00 dB

Transmit Freq Error 86.673 kHz

x dB Bandwidth 90.790 MHz

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1.114. 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	87.32	91.02	90	Pass

Agilent

Measure

Ch Freq 3.49998 GHz
Ext Ref

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Log

10
dB/

Offst
12.3

dB
Ext Ref

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 %
87.3237 MHz	x dB -26.00 dB
Transmit Freq Error 60.519 kHz	
x dB Bandwidth 91.024 MHz	

Power Stat CCDF
More

1 of 2

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1.115. 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	87.36	90.99	90	Pass

Agilent
Measure

Ch Freq 3.50499 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 12.2 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 %

87.3599 MHz x dB -26.00 dB

Transmit Freq Error 55.524 kHz

x dB Bandwidth 90.993 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

1.116. 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	87.29	91.04	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 3.495 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot parameters include 'Ref 30 dBm', '#Atten 30 dB', 'Log 10 dB/Offst 12.3 dB', 'Center 3.495 00 GHz', 'Span 180 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 5 s (900 pts)'. A green box highlights the measurement results: 'Occupied Bandwidth 87.2870 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Other parameters shown include 'Transmit Freq Error 18.001 kHz' and 'x dB Bandwidth 91.044 MHz'. On the right side, there is a 'Measure' menu 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 shows the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

1.117. 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	87.31	90.91	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 %
87.3129 MHz	x dB -26.00 dB
Transmit Freq Error 14.874 kHz	
x dB Bandwidth 90.912 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

1.118. 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	87.33	90.97	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The center frequency is 3.50499 GHz, and the span is 180 MHz. The occupied bandwidth is measured as 87.3331 MHz, which is 99.00% of the channel bandwidth. The XdB down is -26.00 dB. The transmit frequency error is 19.225 kHz, and the XdB bandwidth is 90.974 MHz. The interface includes various control buttons on the right side, such as 'Measure', '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 %
87.3331 MHz	x dB	-26.00 dB
Transmit Freq Error	19.225 kHz	
x dB Bandwidth	90.974 MHz	

1.119. 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	87.28	90.94	90	Pass

Agilent
Measure

Ch Freq 3.495 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 3.495 00 GHz Span 180 MHz

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

Occupied Bandwidth Occ BW % Pwr 99.00 %

87.2774 MHz x dB -26.00 dB

Transmit Freq Error 89.304 kHz

x dB Bandwidth 90.936 MHz

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1.120. 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	87.33	91.18	90	Pass

Agilent

Ext Ref

Ch Freq 3.49998 GHz **Trig** Free

Occupied Bandwidth Averages: 1

Measure

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 %
87.3332 MHz	x dB -26.00 dB
Transmit Freq Error 71.538 kHz	
x dB Bandwidth 91.176 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

1.121. 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	87.34	91.16	90	Pass

Agilent
Measure

Ch Freq 3.50499 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 12.2 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 %

87.3428 MHz x dB -26.00 dB

Transmit Freq Error 63.884 kHz

x dB Bandwidth 91.160 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

1.122. 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	87.37	90.72	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The center frequency is 3.495 GHz, and the span is 180 MHz. The occupied bandwidth is measured as 87.3709 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The interface includes various control buttons on the right side, such as 'Measure', '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	x dB
87.3709 MHz	99.00 %	-26.00 dB

Transmit Freq Error: 120.706 kHz
 x dB Bandwidth: 90.725 MHz

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1.123. 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	87.41	90.91	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 %
87.4123 MHz	x dB -26.00 dB
Transmit Freq Error 90.549 kHz	
x dB Bandwidth 90.914 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

1.9. 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	87.55	91.07	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 %
87.5497 MHz	x dB -26.00 dB
Transmit Freq Error -64.354 kHz	
x dB Bandwidth 91.072 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

1.124. 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	97.38	101.12	100	Pass

Agilent
Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Occupied Bandwidth	Occ BW % Pwr 99.00 %
97.3817 MHz	x dB -26.00 dB
Transmit Freq Error 66.088 kHz	
x dB Bandwidth 101.124 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

1.125. 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	97.39	100.97	100	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 200 MHz

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

Occupied Bandwidth	Occ BW % Pwr 99.00 %
97.3939 MHz	x dB -26.00 dB
Transmit Freq Error 28.046 kHz	
x dB Bandwidth 100.969 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

1.126. 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	97.06	100.99	100	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 200 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (1000 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
97.0598 MHz	x dB -26.00 dB
Transmit Freq Error 42.856 kHz	
x dB Bandwidth 100.989 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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1.127. 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	97.47	100.91	100	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 200 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (1000 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
97.4665 MHz	x dB -26.00 dB
Transmit Freq Error 54.549 kHz	
x dB Bandwidth 100.911 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

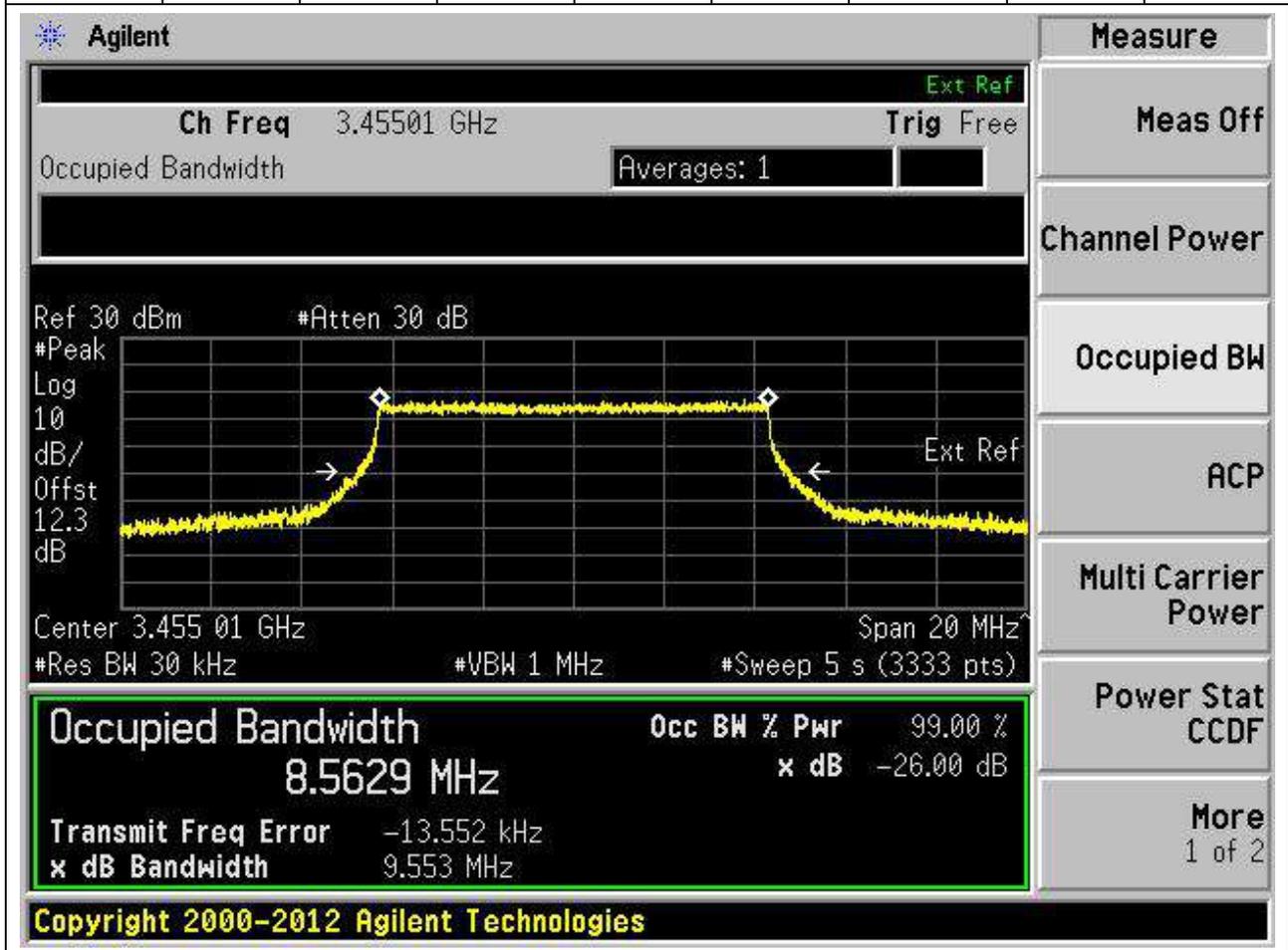
Power Stat CCDF

More
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2. n78(3450-3550)

2.1. Occupied Bandwidth for SA_Part22-24-27(Channel:630334, 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
3455.01	99	26	0.03	Peak	8.56	9.55	10	Pass



2.2. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	0.03	Peak	8.56	9.37	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	8.5604 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-17.774 kHz
x dB Bandwidth	9.367 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 3.499 980 GHz, Span 20 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (3333 pts).

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2.3. Occupied Bandwidth for SA_Part22-24-27(Channel:636332, 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
3544.98	99	26	0.03	Peak	8.57	9.55	10	Pass

Agilent
Measure

Ch Freq 3.54498 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.544 980 GHz Span 20 MHz
#Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (3333 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
8.5720 MHz	x dB -26.00 dB
Transmit Freq Error	-15.859 kHz
x dB Bandwidth	9.546 MHz

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Meas Off

Channel Power

Occupied BW

ACP

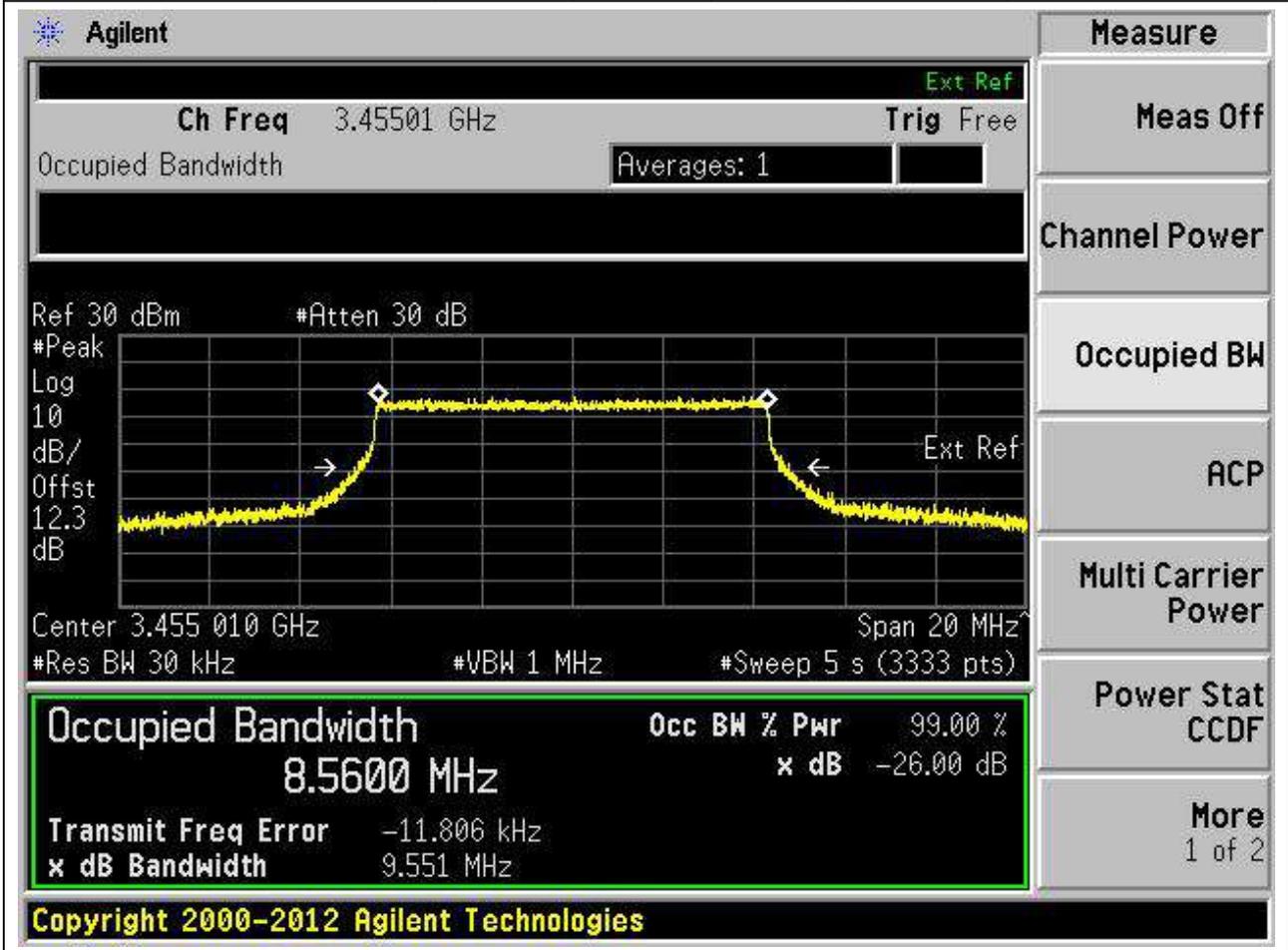
Multi Carrier Power

Power Stat CCDF

More
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2.4. Occupied Bandwidth for SA_Part22-24-27(Channel:630334, 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
3455.01	99	26	0.03	Peak	8.56	9.55	10	Pass



2.5. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	0.03	Peak	8.56	9.52	10	Pass

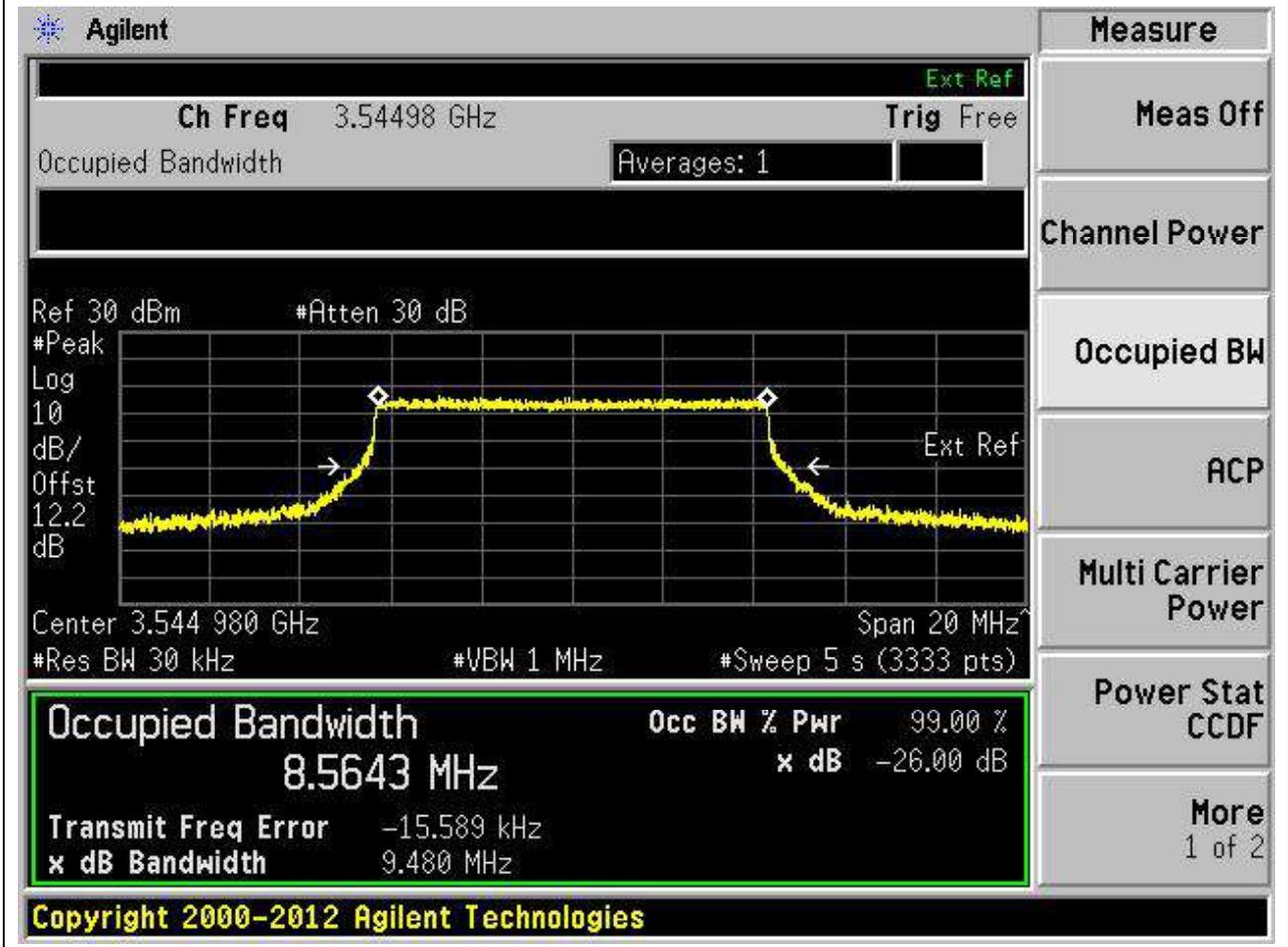
The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The center frequency is 3.49998 GHz, and the span is 20 MHz. The occupied bandwidth is measured as 8.5616 MHz, which is 99.00% of the channel bandwidth. The XdB down is -26.00 dB. The transmit frequency error is -13.349 kHz, and the XdB bandwidth is 9.516 MHz. The interface includes various measurement controls and a list of measurement functions on the right side.

Measurement	Value
Occupied Bandwidth	8.5616 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-13.349 kHz
x dB Bandwidth	9.516 MHz

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2.6. Occupied Bandwidth for SA_Part22-24-27(Channel:636332, 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
3544.98	99	26	0.03	Peak	8.56	9.48	10	Pass



2.7. Occupied Bandwidth for SA_Part22-24-27(Channel:630334, 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
3455.01	99	26	0.03	Peak	8.57	9.56	10	Pass

Agilent
Measure

Ch Freq 3.45501 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.455 010 GHz Span 20 MHz

#Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (3333 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

8.5659 MHz x dB -26.00 dB

Transmit Freq Error -13.646 kHz

x dB Bandwidth 9.564 MHz

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Meas Off

Channel Power

Occupied BW

ACP

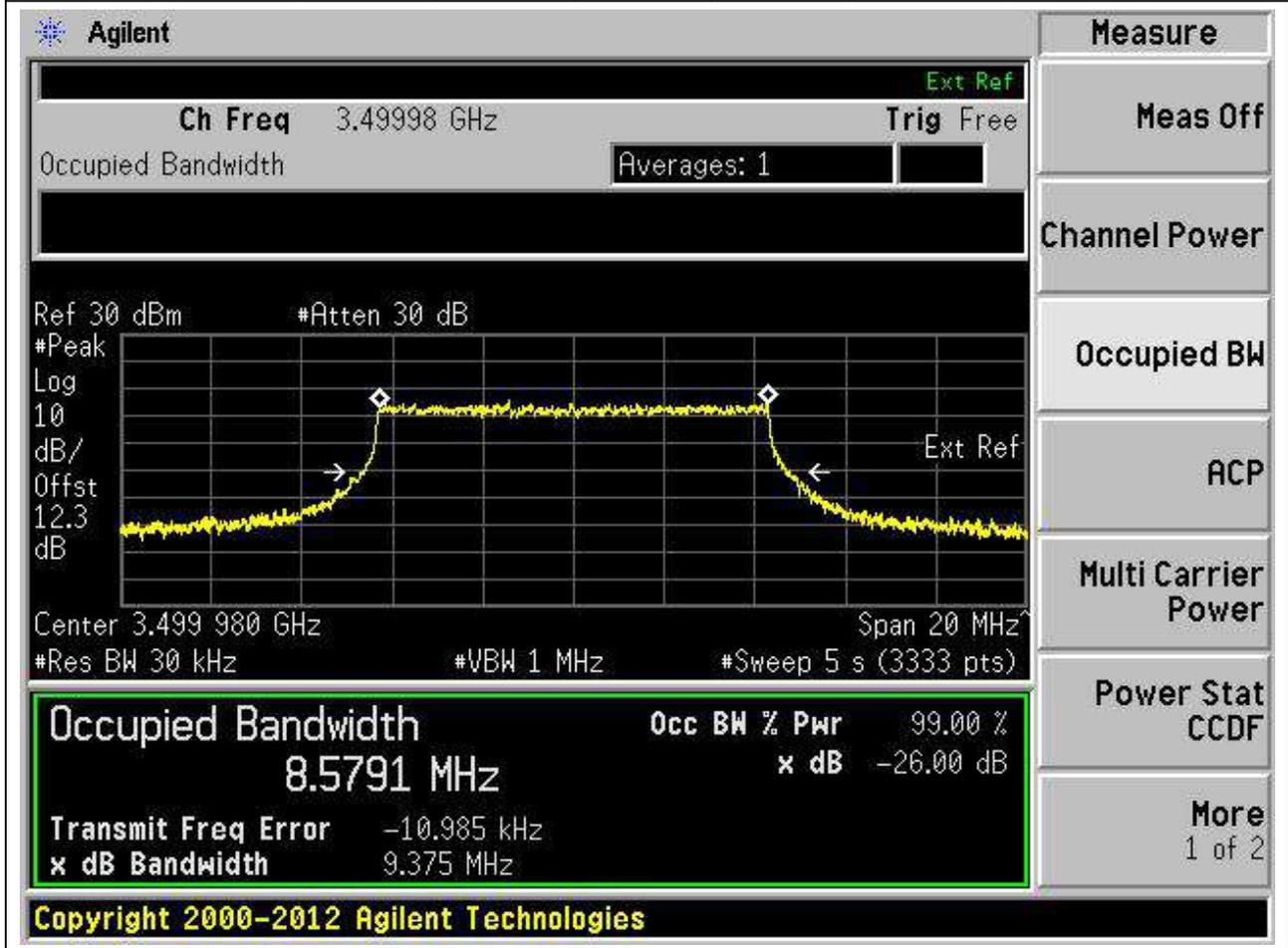
Multi Carrier Power

Power Stat CCDF

More 1 of 2

2.8. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	0.03	Peak	8.58	9.37	10	Pass



2.9. Occupied Bandwidth for SA_Part22-24-27(Channel:636332, 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
3544.98	99	26	0.03	Peak	8.58	9.46	10	Pass

Agilent
Measure

Ch Freq 3.54498 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
10

dB/
Offst

12.2
dB

Center 3.544 980 GHz
Span 20 MHz

#Res BW 30 kHz
#VBW 1 MHz
#Sweep 5 s (3333 pts)

Occupied Bandwidth
Occ BW % Pwr 99.00 %

8.5798 MHz
x dB -26.00 dB

Transmit Freq Error
-10.060 kHz

x dB Bandwidth
9.460 MHz

Power Stat
CCDF

More
1 of 2

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2.10. Occupied Bandwidth for SA_Part22-24-27(Channel:630334, 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
3455.01	99	26	0.03	Peak	8.56	9.28	10	Pass

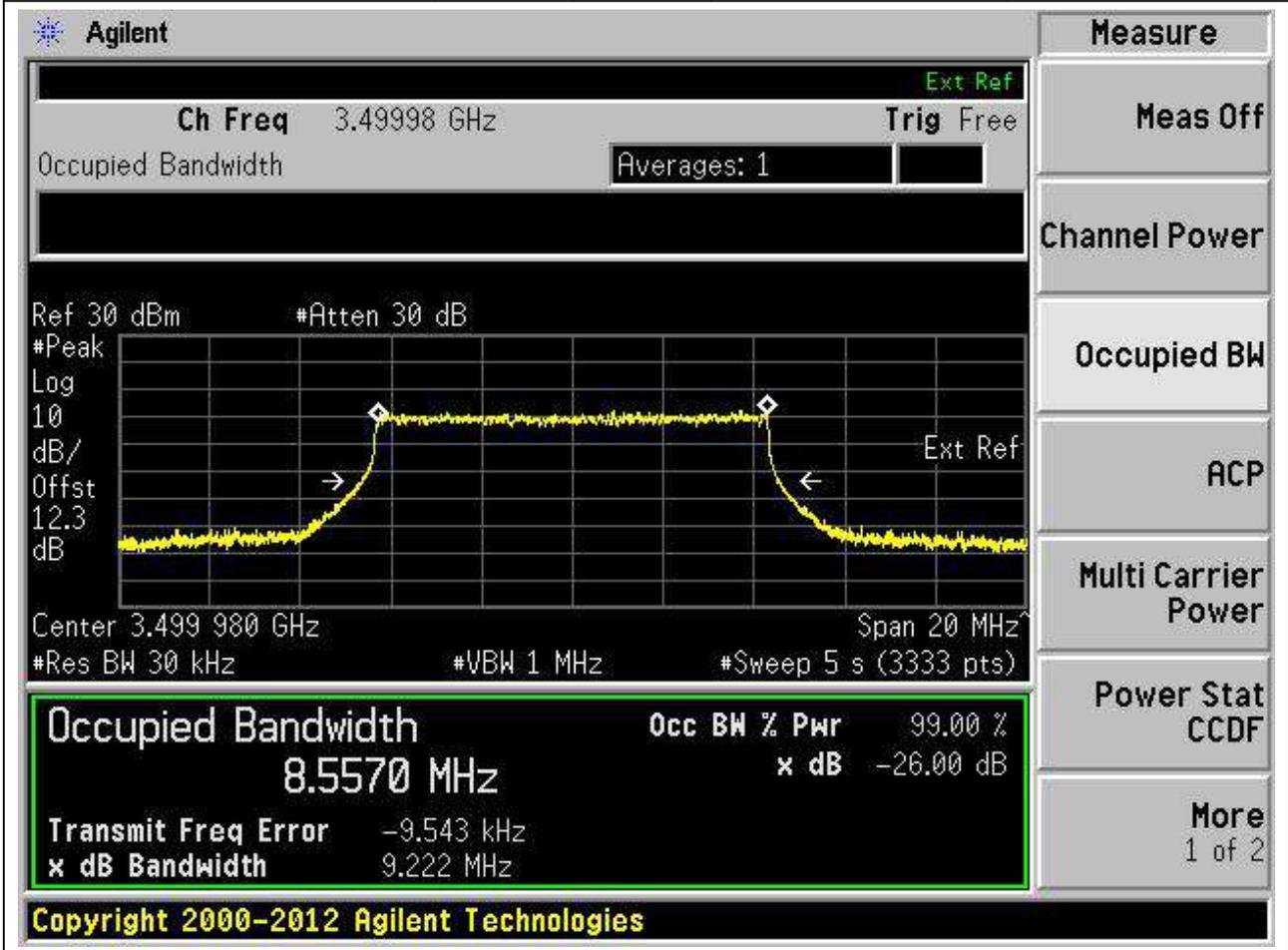
The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 3.45501 GHz and a span of 20 MHz. The y-axis is labeled 'Log 10 dB/Offst 12.3 dB'. The plot shows a signal with a flat top and sloping sides, indicating a multi-carrier signal. Two white diamonds mark the edges of the signal, and arrows point to them from the 'Occupied Bandwidth' label. The 'Occupied Bandwidth' is displayed as 8.5624 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -14.586 kHz and the 'x dB Bandwidth' is 9.279 MHz. The 'Averages' are set to 1. The 'Meas Off' button is visible on the right side of the interface.

Occupied Bandwidth	Occ BW % Pwr	x dB
8.5624 MHz	99.00 %	-26.00 dB

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2.11. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	0.03	Peak	8.56	9.22	10	Pass



2.12. Occupied Bandwidth for SA_Part22-24-27(Channel:636332, 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
3544.98	99	26	0.03	Peak	8.56	9.22	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 3.54498 GHz. The occupied bandwidth is highlighted as 8.5589 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -18.247 kHz and the XdB bandwidth is 9.217 MHz. The interface includes various measurement controls and a list of measurement options on the right side.

Measurement	Value
Occupied Bandwidth	8.5589 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-18.247 kHz
x dB Bandwidth	9.217 MHz

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2.13. Occupied Bandwidth for SA_Part22-24-27(Channel:630500, 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
3457.5	99	26	0.03	Peak	13.54	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 measurement results are as follows:

Measurement	Value
Occupied Bandwidth	13.5421 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-4.272 kHz
x dB Bandwidth	14.473 MHz

Additional parameters shown in the interface include: Ch Freq 3.4575 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 12.3 dB, Center 3.457 500 GHz, Span 30 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (5000 pts).

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2.14. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	0.03	Peak	13.56	14.5	15	Pass

Agilent
Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 980 GHz Span 30 MHz
#Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (5000 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
13.5551 MHz	x dB -26.00 dB
Transmit Freq Error	-12.120 kHz
x dB Bandwidth	14.505 MHz

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Meas Off

Channel Power

Occupied BW

ACP

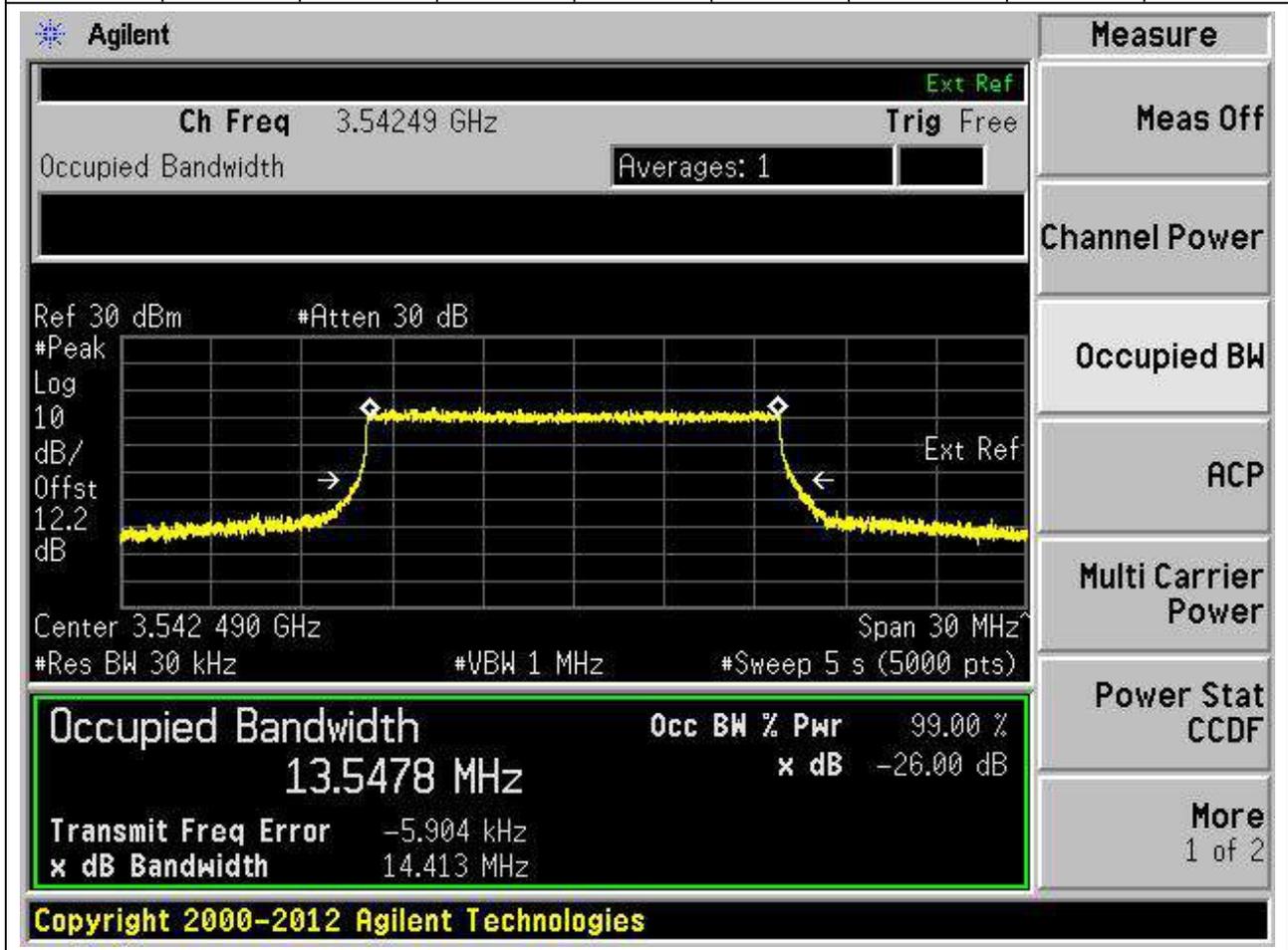
Multi Carrier Power

Power Stat CCDF

More
1 of 2

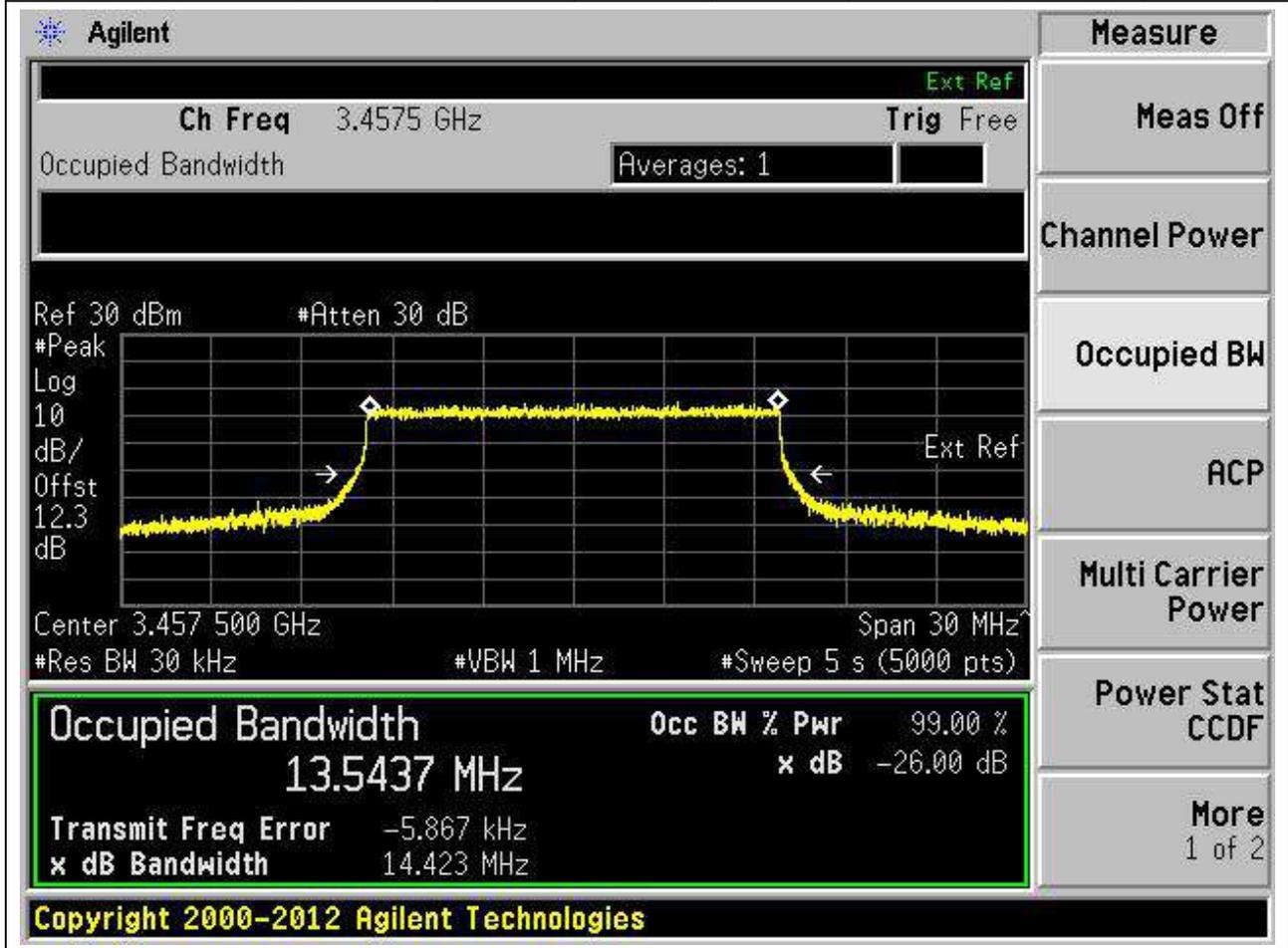
2.15. Occupied Bandwidth for SA_Part22-24-27(Channel:636166, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:38, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3542.49	99	26	0.03	Peak	13.55	14.41	15	Pass



2.16. Occupied Bandwidth for SA_Part22-24-27(Channel:630500, 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
3457.5	99	26	0.03	Peak	13.54	14.42	15	Pass



2.17. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	0.03	Peak	13.54	14.37	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 3.49998 GHz and a span of 30 MHz. The signal level is approximately 13.54 MHz. The plot shows a flat top with a slight dip in the center, indicating a multi-carrier signal. The X-axis is labeled 'Center 3.499 980 GHz' and the Y-axis is labeled 'Log 10 dB/ Offst 12.3 dB'. The plot also shows 'Ref 30 dBm' and '#Atten 30 dB'. The signal is identified as 'Ext Ref'.

The measurement results are displayed in a table at the bottom of the screen:

Measurement	Value
Occupied Bandwidth	13.5398 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-14.791 kHz
x dB Bandwidth	14.370 MHz

The interface also includes a 'Measure' menu on the right side with options: 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'.

2.18. Occupied Bandwidth for SA_Part22-24-27(Channel:636166, 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
3542.49	99	26	0.03	Peak	13.55	14.31	15	Pass

Agilent

Measure

Ch Freq 3.54249 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 3.542 490 GHz
Span 30 MHz

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

Occupied Bandwidth	Occ BW % Pwr 99.00 %
13.5484 MHz	x dB -26.00 dB
Transmit Freq Error	-17.139 kHz
x dB Bandwidth	14.306 MHz

Power Stat
More

CCDF
1 of 2

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2.19. Occupied Bandwidth for SA_Part22-24-27(Channel:630500, 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
3457.5	99	26	0.03	Peak	13.57	14.43	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	13.5672 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-18.311 kHz
x dB Bandwidth	14.427 MHz

Additional parameters shown in the interface include: Ch Freq 3.4575 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 12.3 dB, Center 3.457 500 GHz, Span 30 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (5000 pts).

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2.20. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	0.03	Peak	13.56	14.44	15	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 3.499 980 GHz Span 30 MHz

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

Occupied Bandwidth Occ BW % Pwr 99.00 %

13.5648 MHz x dB -26.00 dB

Transmit Freq Error -19.409 kHz

x dB Bandwidth 14.438 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

2.21. Occupied Bandwidth for SA_Part22-24-27(Channel:636166, 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
3542.49	99	26	0.03	Peak	13.58	14.36	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	13.5755 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-21.868 kHz
x dB Bandwidth	14.361 MHz

Additional parameters shown in the interface include: Ch Freq 3.54249 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 12.2 dB, Center 3.542 490 GHz, Span 30 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (5000 pts).

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2.22. Occupied Bandwidth for SA_Part22-24-27(Channel:630500, 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
3457.5	99	26	0.03	Peak	13.56	14.29	15	Pass

Agilent
Measure

Ch Freq 3.4575 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
10

dB/
Offst

12.3
dB

Center 3.457 500 GHz
Span 30 MHz

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

Occupied Bandwidth
Occ BW % Pwr 99.00 %

13.5610 MHz
x dB -26.00 dB

Transmit Freq Error -6.601 kHz

x dB Bandwidth 14.286 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.23. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	0.03	Peak	13.53	14.25	15	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 3.499 980 GHz Span 30 MHz

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

Occupied Bandwidth	Occ BW % Pwr 99.00 %
13.5326 MHz	x dB -26.00 dB
Transmit Freq Error	-3.674 kHz
x dB Bandwidth	14.252 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.24. Occupied Bandwidth for SA_Part22-24-27(Channel:636166, 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
3542.49	99	26	0.03	Peak	13.56	14.39	15	Pass

Agilent
Measure

Ch Freq 3.54249 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 12.2 dB

Center 3.542 490 GHz Span 30 MHz

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

Occupied Bandwidth Occ BW % Pwr 99.00 %

13.5637 MHz x dB -26.00 dB

Transmit Freq Error -14.333 kHz

x dB Bandwidth 14.390 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

2.25. Occupied Bandwidth for SA_Part22-24-27(Channel:630668, 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
3460.02	99	26	0.03	Peak	18.18	19.02	20	Pass

Agilent
Measure

Ch Freq 3.46002 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.460 020 GHz Span 40 MHz

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

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

Occupied Bandwidth Occ BW % Pwr 99.00 %

18.1821 MHz x dB -26.00 dB

Transmit Freq Error -22.723 kHz

x dB Bandwidth 19.018 MHz

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2.26. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	0.03	Peak	18.18	19.17	20	Pass

Agilent
Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 980 GHz Span 40 MHz
#Res BW 30 kHz #VBW 1 MHz #Sweep 5 s (6666 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
18.1813 MHz	x dB -26.00 dB
Transmit Freq Error -20.175 kHz	
x dB Bandwidth 19.174 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.27. Occupied Bandwidth for SA_Part22-24-27(Channel:636000, 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
3540	99	26	0.03	Peak	18.17	19.23	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 3.54 GHz, and the span is 40 MHz. The occupied bandwidth is highlighted in a green box at the bottom of the screen.

Measurement	Value
Occupied Bandwidth	18.1666 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-20.696 kHz
x dB Bandwidth	19.226 MHz

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2.28. Occupied Bandwidth for SA_Part22-24-27(Channel:630668, 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
3460.02	99	26	0.03	Peak	18.17	19.04	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 3.46002 GHz, and the span is 40 MHz. The occupied bandwidth is highlighted as 18.1653 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -17.917 kHz, and the XdB bandwidth is 19.039 MHz. The interface includes various measurement controls and a list of measurement options on the right side.

Measurement	Value
Occupied Bandwidth	18.1653 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-17.917 kHz
x dB Bandwidth	19.039 MHz

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2.29. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	0.03	Peak	18.18	18.91	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 3.49998 GHz, and the span is 40 MHz. The occupied bandwidth is highlighted as 18.1790 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 %
18.1790 MHz		x dB	-26.00 dB
Transmit Freq Error		-14.173 kHz	
x dB Bandwidth		18.907 MHz	

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2.30. Occupied Bandwidth for SA_Part22-24-27(Channel:636000, 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
3540	99	26	0.03	Peak	18.16	19.04	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow signal trace. The plot parameters are: Center 3.540 000 GHz, Span 40 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (6666 pts). The signal is centered at 3.54 GHz with a bandwidth of approximately 18.16 MHz. The power level is 99.00% and the XdB Down is -26.00 dB. The plot also shows the 'Ext Ref' marker and the 'Occupied Bandwidth' measurement window.

Measure

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

Occupied Bandwidth 18.1646 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -10.462 kHz
x dB Bandwidth 19.044 MHz

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2.31. Occupied Bandwidth for SA_Part22-24-27(Channel:630668, 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
3460.02	99	26	0.03	Peak	18.17	19.05	20	Pass

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

Measurement	Value
Occupied Bandwidth	18.1665 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-14.516 kHz
x dB Bandwidth	19.047 MHz

Other visible parameters include: Ch Freq 3.46002 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 12.3 dB, Center 3.460 020 GHz, Span 40 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (6666 pts).

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2.32. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	0.03	Peak	18.17	19.02	20	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 3.499 980 GHz Span 40 MHz

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

Occupied Bandwidth Occ BW % Pwr 99.00 %

18.1680 MHz x dB -26.00 dB

Transmit Freq Error -17.536 kHz

x dB Bandwidth 19.023 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

2.33. Occupied Bandwidth for SA_Part22-24-27(Channel:636000, 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
3540	99	26	0.03	Peak	18.17	19.07	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 3.54 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	x dB
18.1666 MHz	99.00 %	-26.00 dB

Additional parameters shown in the screenshot include: Ch Freq 3.54 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 12.2 dB, Center 3.540 000 GHz, Span 40 MHz, #Res BW 30 kHz, #VBW 1 MHz, #Sweep 5 s (6666 pts), Transmit Freq Error -6.179 kHz, and x dB Bandwidth 19.073 MHz.

2.34. Occupied Bandwidth for SA_Part22-24-27(Channel:630668, 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
3460.02	99	26	0.03	Peak	18.16	18.93	20	Pass

Agilent
Measure

Ch Freq 3.46002 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
10

dB/
Offst

12.3
dB

Center 3.460 020 GHz
Span 40 MHz

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

Occupied Bandwidth
Occ BW % Pwr 99.00 %

18.1616 MHz
x dB -26.00 dB

Transmit Freq Error -9.403 kHz

x dB Bandwidth 18.931 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.35. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	0.03	Peak	18.18	19.07	20	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 3.499 980 GHz Span 40 MHz

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

Occupied Bandwidth Occ BW % Pwr 99.00 %

18.1784 MHz x dB -26.00 dB

Transmit Freq Error -6.149 kHz

x dB Bandwidth 19.069 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

2.36. Occupied Bandwidth for SA_Part22-24-27(Channel:636000, 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
3540	99	26	0.03	Peak	18.17	18.96	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 3.54 GHz, and the span is 40 MHz. The occupied bandwidth is highlighted as 18.1701 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -15.879 kHz, and the XdB bandwidth is 18.957 MHz. The interface includes various measurement controls and a list of measurement options on the right side.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
18.1701 MHz	x dB	-26.00 dB
Transmit Freq Error	-15.879 kHz	
x dB Bandwidth	18.957 MHz	

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2.37. Occupied Bandwidth for SA_Part22-24-27(Channel:630834, 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
3462.51	99	26	1	Peak	23.47	26.02	25	Pass

Agilent
Measure

Ch Freq 3.46251 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.462 510 GHz Span 50 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
23.4674 MHz	x dB -26.00 dB
Transmit Freq Error	29.653 kHz
x dB Bandwidth	26.019 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.38. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	1	Peak	23.49	26.02	25	Pass

Agilent
Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 980 GHz Span 50 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
23.4914 MHz	x dB -26.00 dB
Transmit Freq Error 15.321 kHz	
x dB Bandwidth 26.015 MHz	

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

2.39. Occupied Bandwidth for SA_Part22-24-27(Channel:635832, 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
3537.48	99	26	1	Peak	23.47	26.08	25	Pass

Agilent
Measure

Ch Freq 3.53748 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.537 480 GHz Span 50 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
23.4703 MHz	x dB -26.00 dB
Transmit Freq Error 29.032 kHz	
x dB Bandwidth 26.080 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.40. Occupied Bandwidth for SA_Part22-24-27(Channel:630834, 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
3462.51	99	26	1	Peak	23.6	26.34	25	Pass

Agilent
Measure

Ch Freq 3.46251 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.462 510 GHz Span 50 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
23.6044 MHz	x dB -26.00 dB
Transmit Freq Error -2.330 kHz	
x dB Bandwidth 26.340 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.41. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	1	Peak	23.64	26.32	25	Pass

Agilent
Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 980 GHz Span 50 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
23.6376 MHz	x dB -26.00 dB
Transmit Freq Error	-27.804 kHz
x dB Bandwidth	26.317 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.42. Occupied Bandwidth for SA_Part22-24-27(Channel:635832, 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
3537.48	99	26	1	Peak	23.61	26.47	25	Pass

Agilent
Measure

Ch Freq 3.53748 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.537 480 GHz Span 50 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
23.6139 MHz	x dB -26.00 dB
Transmit Freq Error	-6.843 kHz
x dB Bandwidth	26.468 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.43. Occupied Bandwidth for SA_Part22-24-27(Channel:630834, 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
3462.51	99	26	1	Peak	23.56	26.07	25	Pass

Agilent
Measure

Ch Freq 3.46251 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.462 510 GHz Span 50 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
23.5650 MHz	x dB -26.00 dB
Transmit Freq Error	-27.733 kHz
x dB Bandwidth	26.071 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
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2.44. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	1	Peak	23.61	26.19	25	Pass

Agilent
Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 980 GHz Span 50 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
23.6107 MHz	x dB -26.00 dB
Transmit Freq Error	-56.885 kHz
x dB Bandwidth	26.189 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.45. Occupied Bandwidth for SA_Part22-24-27(Channel:635832, 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
3537.48	99	26	1	Peak	23.58	26.06	25	Pass

Agilent
Measure

Ch Freq 3.53748 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.537 480 GHz Span 50 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
23.5760 MHz	x dB -26.00 dB
Transmit Freq Error	-32.424 kHz
x dB Bandwidth	26.063 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.46. Occupied Bandwidth for SA_Part22-24-27(Channel:630834, 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
3462.51	99	26	1	Peak	23.62	26.06	25	Pass

Agilent
Measure

Ch Freq 3.46251 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.462 510 GHz Span 50 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
23.6217 MHz	x dB -26.00 dB
Transmit Freq Error 40.269 kHz	
x dB Bandwidth 26.065 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.47. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	1	Peak	23.66	26.22	25	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 3.499 980 GHz
Span 50 MHz

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

Occupied Bandwidth
Occ BW % Pwr 99.00 %

23.6631 MHz
x dB -26.00 dB

Transmit Freq Error 20.855 kHz

x dB Bandwidth 26.219 MHz

Power Stat

CCDF

More

1 of 2

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2.48. Occupied Bandwidth for SA_Part22-24-27(Channel:635832, 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
3537.48	99	26	1	Peak	23.65	26.22	25	Pass

Agilent
Measure

Ch Freq 3.53748 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.537 480 GHz Span 50 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
23.6488 MHz	x dB -26.00 dB
Transmit Freq Error 27.671 kHz	
x dB Bandwidth 26.225 MHz	

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Meas Off
 Channel Power
 Occupied BW
 ACP
 Multi Carrier Power
 Power Stat CCDF
 More
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4.1. Occupied Bandwidth for SA_Part22-24-27(Channel:631000, 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
3465	99	26	1	Peak	28.17	31.04	30	Pass

Agilent
Measure

Ch Freq 3.465 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.465 00 GHz Span 60 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
28.1698 MHz	x dB -26.00 dB
Transmit Freq Error 64.806 kHz	
x dB Bandwidth 31.040 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

4.2. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	1	Peak	28.23	31.05	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 3.49998 GHz, and the span is 60 MHz. The resolution bandwidth (RBW) is 1 MHz, and the video bandwidth (VBW) is 3 MHz. The sweep time is 5 seconds (401 points). The occupied bandwidth is measured as 28.2301 MHz, which is 99.00% of the 30 MHz channel bandwidth. The power level is -26.00 dB. The transmit frequency error is 40.444 kHz, and the x dB bandwidth is 31.046 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 information: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
28.2301 MHz	x dB	-26.00 dB
Transmit Freq Error	40.444 kHz	
x dB Bandwidth	31.046 MHz	

4.3. Occupied Bandwidth for SA_Part22-24-27(Channel:635666, 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
3534.99	99	26	1	Peak	28.17	31.02	30	Pass

Agilent
Measure

Ch Freq 3.53499 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.534 99 GHz Span 60 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
28.1682 MHz	x dB -26.00 dB
Transmit Freq Error 69.853 kHz	
x dB Bandwidth 31.019 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

4.4. Occupied Bandwidth for SA_Part22-24-27(Channel:631000, 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
3465	99	26	1	Peak	28.16	30.84	30	Pass

Agilent
Measure

Ch Freq 3.465 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 3.465 00 GHz Span 60 MHz

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

Occupied Bandwidth Occ BW % Pwr 99.00 %

28.1602 MHz x dB -26.00 dB

Transmit Freq Error -24.777 kHz

x dB Bandwidth 30.839 MHz

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4.5. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	1	Peak	28.17	30.75	30	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 60 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
28.1668 MHz	x dB -26.00 dB
Transmit Freq Error	-43.162 kHz
x dB Bandwidth	30.748 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

4.6. Occupied Bandwidth for SA_Part22-24-27(Channel:635666, 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
3534.99	99	26	1	Peak	28.14	30.78	30	Pass

Agilent
Measure

Ch Freq 3.53499 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

28.1383 MHz

Transmit Freq Error -2.912 kHz

x dB Bandwidth 30.782 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

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4.7. Occupied Bandwidth for SA_Part22-24-27(Channel:631000, 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
3465	99	26	1	Peak	28.26	31.12	30	Pass

Agilent
Measure

Ch Freq 3.465 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

28.2552 MHz

Transmit Freq Error -3.143 kHz

x dB Bandwidth 31.124 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

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4.8. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	1	Peak	28.25	31.15	30	Pass

Agilent

Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Occupied Bandwidth	Occ BW % Pwr 99.00 %
28.2542 MHz	x dB -26.00 dB
Transmit Freq Error	-28.756 kHz
x dB Bandwidth	31.148 MHz

Power Stat CCDF
More 1 of 2

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4.9. Occupied Bandwidth for SA_Part22-24-27(Channel:635666, 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
3534.99	99	26	1	Peak	28.24	31.16	30	Pass

Agilent
Measure

Ch Freq 3.53499 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.534 99 GHz Span 60 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
28.2375 MHz	x dB -26.00 dB
Transmit Freq Error 2.331 kHz	
x dB Bandwidth 31.157 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

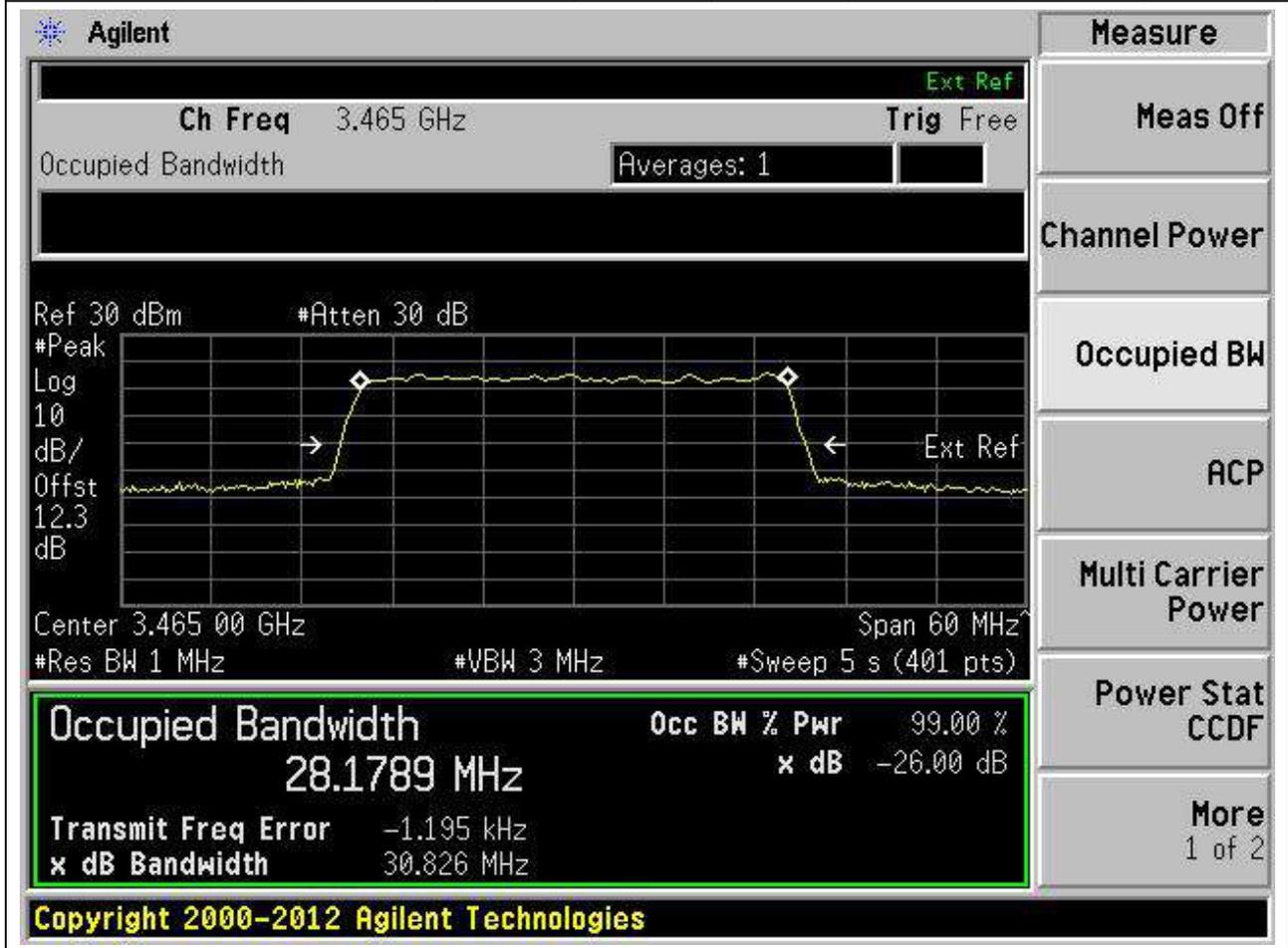
Multi Carrier Power

Power Stat CCDF

More
1 of 2

4.10. Occupied Bandwidth for SA_Part22-24-27(Channel:631000, 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
3465	99	26	1	Peak	28.18	30.83	30	Pass



4.11. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	1	Peak	28.21	30.84	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 3.49998 GHz. The Occupied Bandwidth is measured as 28.2087 MHz, which is 99.00% of the 30 MHz channel bandwidth. The XdB Down is -26.00 dB. The interface also shows the channel frequency, span, resolution bandwidth, and various measurement settings.

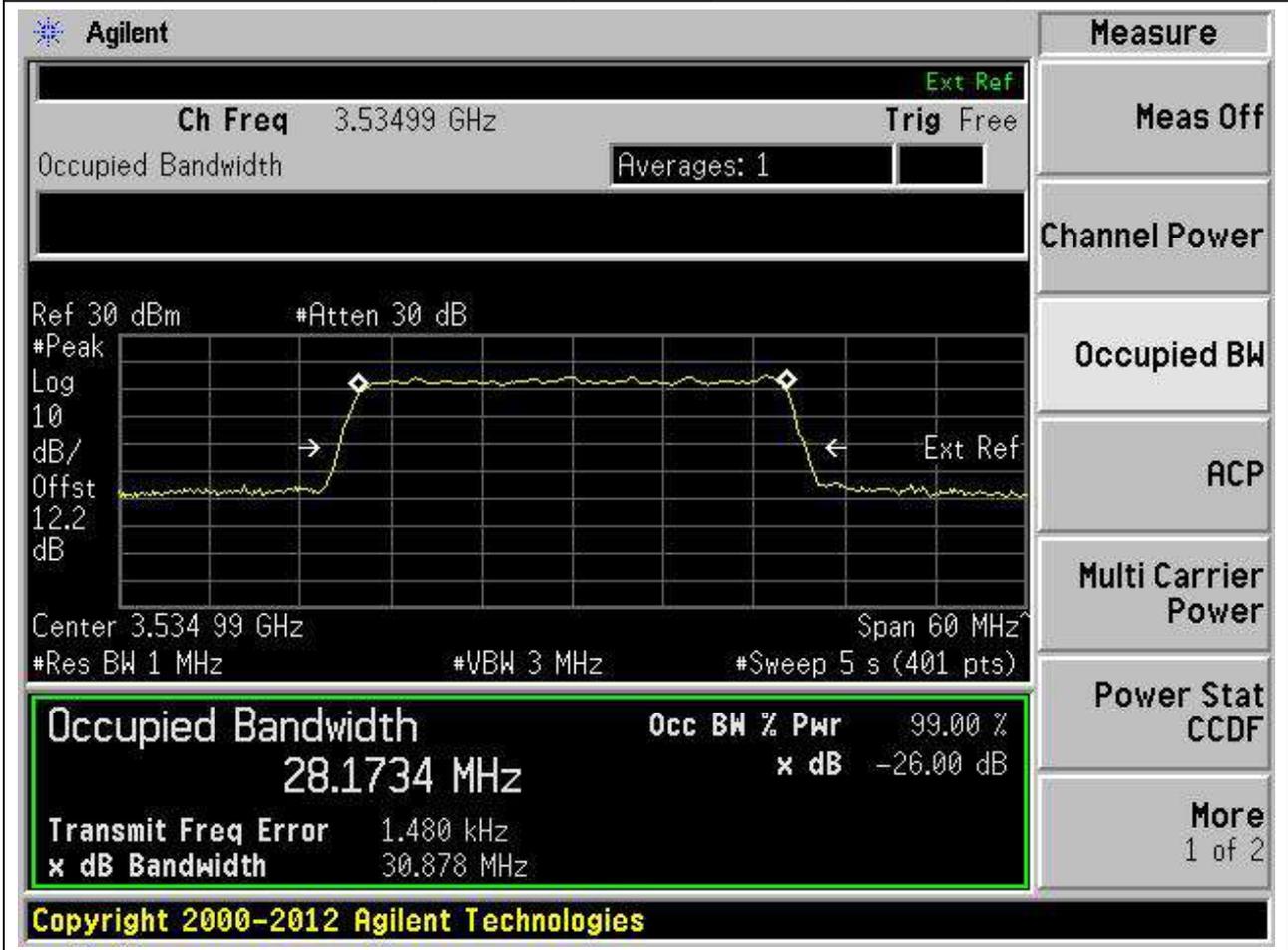
Occupied Bandwidth	Occ BW % Pwr	x dB
28.2087 MHz	99.00 %	-26.00 dB

Other parameters shown in the screenshot 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 60 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (401 pts), Transmit Freq Error -30.320 kHz, x dB Bandwidth 30.838 MHz.

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4.12. Occupied Bandwidth for SA_Part22-24-27(Channel:635666, 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
3534.99	99	26	1	Peak	28.17	30.88	30	Pass



2.49. Occupied Bandwidth for SA_Part22-24-27(Channel:631334, 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
3470.01	99	26	1	Peak	38.17	41.17	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 3.47001 GHz. The main display shows a spectrum plot with a yellow trace representing the signal. The plot is set to a reference level of 30 dBm and an attenuation of 30 dB. The occupied bandwidth is highlighted in a green box, showing a value of 38.1655 MHz. The percentage of power within this bandwidth is 99.00%, and the XdB bandwidth is 41.169 MHz. The transmit frequency error is 70.239 kHz. The interface also shows various measurement settings like Res BW (1 MHz), VBW (3 MHz), and Sweep (5 s). A vertical menu on the right side lists measurement options such as Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More.

Occupied Bandwidth	Occ BW % Pwr	x dB
38.1655 MHz	99.00 %	-26.00 dB

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2.50. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	1	Peak	38.25	41.29	40	Pass

Agilent
Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.500 0 GHz Span 80 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
38.2488 MHz	x dB -26.00 dB
Transmit Freq Error 27.453 kHz	
x dB Bandwidth 41.286 MHz	

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

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2.51. Occupied Bandwidth for SA_Part22-24-27(Channel:635332, 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
3529.98	99	26	1	Peak	38.23	41.21	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 3.52998 GHz. The Occupied Bandwidth (OBW) is measured as 38.2260 MHz, which is 99.00% of the 40 MHz channel bandwidth. The XdB Down is -26.00 dB. The transmit frequency error is 44.517 kHz, and the x dB bandwidth is 41.205 MHz. The interface includes various measurement controls and a list of available measurement functions on the right side.

Measurement	Value
Occupied Bandwidth	38.2260 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	44.517 kHz
x dB Bandwidth	41.205 MHz

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2.52. Occupied Bandwidth for SA_Part22-24-27(Channel:631334, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, 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
3470.01	99	26	1	Peak	38	41.08	40	Pass

Agilent
Measure

Ch Freq 3.47001 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.470 0 GHz Span 80 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
38.0037 MHz	x dB -26.00 dB
Transmit Freq Error 2.612 kHz	
x dB Bandwidth 41.083 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.53. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, 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
3499.98	99	26	1	Peak	38.06	41.08	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal trace with a peak at 3.49998 GHz. The Occupied Bandwidth is measured as 38.0582 MHz, which is 99.00% of the 38.06 MHz OBW. The XdB Down is -26.00 dB. The transmit frequency error is -51.044 kHz, and the x dB Bandwidth is 41.079 MHz. The interface includes various measurement controls and a list of measurement options on the right side.

Measurement	Value
Occupied Bandwidth	38.0582 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-51.044 kHz
x dB Bandwidth	41.079 MHz

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2.54. Occupied Bandwidth for SA_Part22-24-27(Channel:635332, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, 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
3529.98	99	26	1	Peak	38.06	40.96	40	Pass

Agilent

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

Ch Freq 3.52998 GHz
Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
Ext Ref

10

dB/

Offst

12.2

dB

Center 3.530 0 GHz
Span 80 MHz

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

Occupied Bandwidth
38.0581 MHz

Occ BW % Pwr
99.00 %

Transmit Freq Error
-14.113 kHz

x dB Bandwidth
40.959 MHz

x dB
-26.00 dB

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Document No: BL-SZ2570858

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2.55. Occupied Bandwidth for SA_Part22-24-27(Channel:631334, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, 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
3470.01	99	26	1	Peak	38.04	41.04	40	Pass

Agilent
Measure

Ch Freq 3.47001 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
10

dB/
Offst

12.3
dB

Center 3.470 0 GHz
Span 80 MHz

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

Occupied Bandwidth
Occ BW % Pwr 99.00 %

38.0381 MHz
x dB -26.00 dB

Transmit Freq Error -24.818 kHz

x dB Bandwidth 41.044 MHz

Power Stat CCDF

More 1 of 2

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2.56. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, 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
3499.98	99	26	1	Peak	38.08	41.05	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace representing the signal. The plot is centered at 3.5000 GHz with a span of 80 MHz. The y-axis is labeled 'Log 10 dB/Offst 12.3 dB'. The plot shows a signal with a peak at approximately 3.49998 GHz. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 38.0826 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -77.061 kHz and the 'x dB Bandwidth' is 41.046 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom of the screen.

Occupied Bandwidth	Occ BW % Pwr	x dB
38.0826 MHz	99.00 %	-26.00 dB

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2.57. Occupied Bandwidth for SA_Part22-24-27(Channel:635332, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, 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
3529.98	99	26	1	Peak	38.1	41.07	40	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 3.52998 GHz. The Occupied Bandwidth is measured as 38.0995 MHz, which is 99.00% of the 40 MHz channel bandwidth. The XdB Down is -26.00 dB. The transmit frequency error is -42.137 kHz, and the XdB Bandwidth is 41.070 MHz. The interface includes various measurement controls and a list of available measurement functions on the right side.

Measurement	Value
Occupied Bandwidth	38.0995 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-42.137 kHz
x dB Bandwidth	41.070 MHz

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2.58. Occupied Bandwidth for SA_Part22-24-27(Channel:631334, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, 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
3470.01	99	26	1	Peak	37.98	41.13	40	Pass

Agilent
Measure

Ch Freq 3.47001 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.470 0 GHz Span 80 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (401 pts)

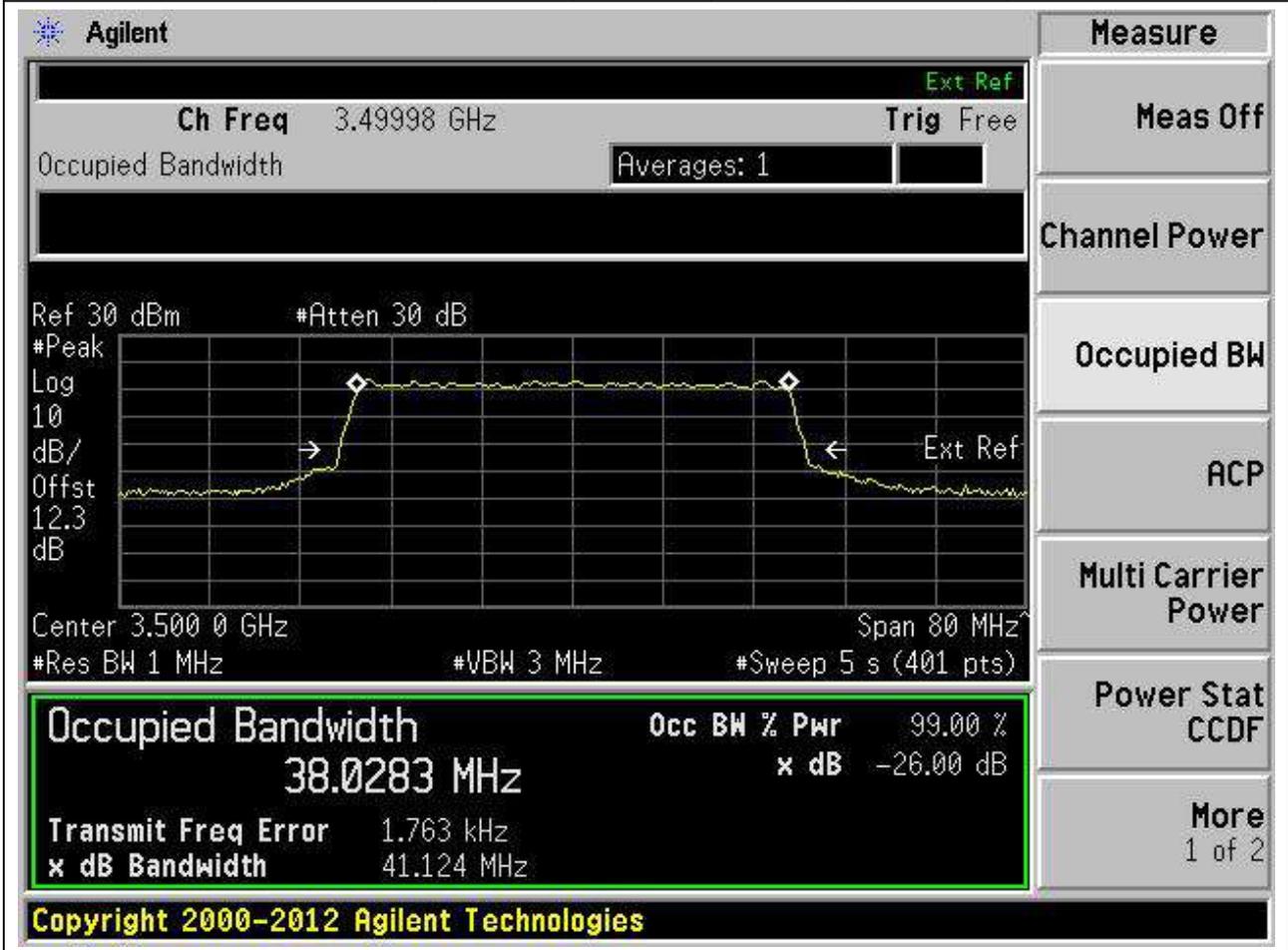
Occupied Bandwidth	Occ BW % Pwr 99.00 %
37.9849 MHz	x dB -26.00 dB
Transmit Freq Error 53.221 kHz	
x dB Bandwidth 41.127 MHz	

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

2.59. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, 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
3499.98	99	26	1	Peak	38.03	41.12	40	Pass



2.60. Occupied Bandwidth for SA_Part22-24-27(Channel:635332, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, 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
3529.98	99	26	1	Peak	38.04	41.13	40	Pass

Agilent

Ext Ref

Ch Freq 3.52998 GHz **Trig** Free

Occupied Bandwidth Averages: 1

Measure

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 12.2 dB

Center 3.530 0 GHz Span 80 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	Occ BW % Pwr 99.00 %
38.0405 MHz	x dB -26.00 dB
Transmit Freq Error 42.686 kHz	
x dB Bandwidth 41.129 MHz	

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2.61. Occupied Bandwidth for SA_Part22-24-27(Channel:631668, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:133, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3475.02	99	26	1	Peak	47.59	50.75	50	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	47.5925 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	46.607 kHz
x dB Bandwidth	50.753 MHz

Additional parameters shown in the interface include: Ch Freq 3.47502 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst 12.3 dB, Center 3.475 02 GHz, Span 100 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (500 pts).

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2.62. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:133, 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	47.63	50.89	50	Pass

Agilent
Measure

Ch Freq 3.49998 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

47.6309 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error 11.545 kHz

x dB Bandwidth 50.886 MHz

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2.63. Occupied Bandwidth for SA_Part22-24-27(Channel:635000, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:133, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3525	99	26	1	Peak	47.66	50.8	50	Pass

Agilent
Measure

Ch Freq 3.525 GHz Ext Ref

Trig Free

Occupied Bandwidth 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

Occupied Bandwidth Occ BW % Pwr 99.00 %

47.6614 MHz x dB -26.00 dB

Transmit Freq Error 38.651 kHz

x dB Bandwidth 50.797 MHz

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2.64. Occupied Bandwidth for SA_Part22-24-27(Channel:631668, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:133, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3475.02	99	26	1	Peak	47.45	50.51	50	Pass

Agilent
Measure

Ch Freq 3.47502 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.475 02 GHz Span 100 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (500 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
47.4477 MHz	x dB -26.00 dB
Transmit Freq Error	-19.413 kHz
x dB Bandwidth	50.507 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.65. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:133, 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	47.46	50.73	50	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 100 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (500 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
47.4613 MHz	x dB -26.00 dB
Transmit Freq Error	-40.092 kHz
x dB Bandwidth	50.727 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.66. Occupied Bandwidth for SA_Part22-24-27(Channel:635000, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:133, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3525	99	26	1	Peak	47.51	50.5	50	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 3.525 GHz, and the span is 100 MHz. The occupied bandwidth is measured as 47.5063 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -36.608 kHz, and the XdB bandwidth is 50.499 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	x dB
47.5063 MHz	99.00 %	-26.00 dB

Transmit Freq Error: -36.608 kHz
 x dB Bandwidth: 50.499 MHz

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2.67. Occupied Bandwidth for SA_Part22-24-27(Channel:631668, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:133, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3475.02	99	26	1	Peak	47.57	50.75	50	Pass

Agilent
Measure

Ch Freq 3.47502 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.475 02 GHz Span 100 MHz
 #Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (500 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
47.5703 MHz	x dB -26.00 dB
Transmit Freq Error -7.258 kHz	
x dB Bandwidth 50.754 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.68. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:133, 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	47.58	50.61	50	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 100 MHz
#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (500 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
47.5775 MHz	x dB -26.00 dB
Transmit Freq Error	-46.367 kHz
x dB Bandwidth	50.613 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

2.69. Occupied Bandwidth for SA_Part22-24-27(Channel:635000, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:133, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3525	99	26	1	Peak	47.65	50.9	50	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 3.525 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 span of 100 MHz. The occupied bandwidth is highlighted in a green box with the following values:

Occupied Bandwidth	Occ BW % Pwr	99.00 %
47.6524 MHz	x dB	-26.00 dB
Transmit Freq Error		-31.072 kHz
x dB Bandwidth		50.900 MHz

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

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2.70. Occupied Bandwidth for SA_Part22-24-27(Channel:631668, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:133, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3475.02	99	26	1	Peak	47.58	50.53	50	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 3.47502 GHz, and the span is 100 MHz. The occupied bandwidth is measured as 47.5829 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'.

Measurement	Value
Occupied Bandwidth	47.5829 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	57.423 kHz
x dB Bandwidth	50.525 MHz

2.71. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:133, 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	47.62	50.68	50	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal trace with a yellow box highlighting the Occupied Bandwidth measurement results:

- Occupied Bandwidth:** 47.6208 MHz
- Occ BW % Pwr:** 99.00 %
- x dB:** -26.00 dB
- Transmit Freq Error:** 24.949 kHz
- x dB Bandwidth:** 50.676 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 100 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (500 pts).

The right-hand side of the interface shows a vertical menu of measurement options: Measure, Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2).

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2.72. Occupied Bandwidth for SA_Part22-24-27(Channel:635000, Bandwidth:50, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:133, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3525	99	26	1	Peak	47.65	50.6	50	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The center frequency is 3.525 GHz, and the span is 100 MHz. The occupied bandwidth is measured as 47.6486 MHz. The power 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'.

Measurement	Value
Occupied Bandwidth	47.6486 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	35.053 kHz
x dB Bandwidth	50.603 MHz

2.73. Occupied Bandwidth for SA_Part22-24-27(Channel:632000, Bandwidth:60, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, 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	57.77	61.2	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	57.7748 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	70.817 kHz
x dB Bandwidth	61.202 MHz

Additional parameters shown in the interface include: Ch Freq 3.48 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak, Log, 10 dB/Offst, 12.2 dB, Center 3.480 00 GHz, Span 120 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (600 pts).

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2.74. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, Bandwidth:60, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, 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	57.83	61.37	60	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is set to a center frequency of 3.49998 GHz and a span of 120 MHz. The vertical axis is labeled 'Log 10 dB/Offst 12.3 dB'. The horizontal axis is labeled 'Center 3.499 98 GHz' and 'Span 120 MHz'. The plot shows a signal with a peak at approximately 3.49998 GHz. The 'Occupied Bandwidth' is measured as 57.8282 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is 62.644 kHz and the 'x dB Bandwidth' is 61.372 MHz. The 'Averages' are set to 1. The 'Ref' is 30 dBm and the '#Atten' is 30 dB. The 'Sweep' is 5 s (600 pts). The 'RBW' is 1 MHz and the '#VBW' is 3 MHz. The 'Verdict' is 'Pass'.

Occupied Bandwidth 57.8282 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error 62.644 kHz

x dB Bandwidth 61.372 MHz

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2.75. Occupied Bandwidth for SA_Part22-24-27(Channel:634666, Bandwidth:60, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, 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	57.88	61.33	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 %
57.8759 MHz	x dB -26.00 dB
Transmit Freq Error 41.192 kHz	
x dB Bandwidth 61.331 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

2.76. Occupied Bandwidth for SA_Part22-24-27(Channel:632000, 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
3480	99	26	1	Peak	57.91	61.04	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	57.9095 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	17.613 kHz
x dB Bandwidth	61.045 MHz

Additional parameters shown in the interface include: Ch Freq 3.48 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 12.2 dB, Center 3.480 00 GHz, Span 120 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (600 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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2.77. Occupied Bandwidth for SA_Part22-24-27(Channel:633332, 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
3499.98	99	26	1	Peak	57.95	61.08	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 %
57.9515 MHz	x dB -26.00 dB
Transmit Freq Error 15.427 kHz	
x dB Bandwidth 61.082 MHz	

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2