

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3514.98	99	26	1	Peak	67.73	73.6	70	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	67.7337 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-11.716 kHz
x dB Bandwidth	73.597 MHz

Additional parameters shown in the interface include: Ch Freq 3.51498 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak, Log 10 dB/Offst 11.2 dB, Center 3.514 98 GHz, Span 140 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (700 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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2.63. Occupied Bandwidth for SA_Part22-24-27(NTNV)(Channel:632334, Bandwidth:70, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:189, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3485.01	99	26	1	Peak	67.59	73.88	70	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 3.48501 GHz. The occupied bandwidth is measured as 67.5899 MHz. The power is 99.00% and the XdB bandwidth is 73.882 MHz. The XdB down is -26.00 dB. The transmit frequency error is -52.162 kHz. The resolution bandwidth (RBW) is 1 MHz, the video bandwidth (VBW) is 3 MHz, and the sweep time is 5 s (700 pts). The span is 140 MHz. The reference level is 30 dBm and the attenuation is 30 dB. The detector is set to Peak. The upper limit is 70 MHz. The verdict is Pass.

Occupied Bandwidth	Occ BW % Pwr	x dB
67.5899 MHz	99.00 %	-26.00 dB

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	67.6	73.78	70	Pass

Agilent
Measure

Ch Freq 3.49998 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 98 GHz Span 140 MHz

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

Occupied Bandwidth Occ BW % Pwr 99.00 %

67.6031 MHz x dB -26.00 dB

Transmit Freq Error -49.667 kHz

x dB Bandwidth 73.784 MHz

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3514.98	99	26	1	Peak	67.61	73.82	70	Pass

Agilent

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

Ch Freq 3.51498 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.514 98 GHz Span 140 MHz

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

Occupied Bandwidth Occ BW % Pwr 99.00 %

67.6110 MHz x dB -26.00 dB

Transmit Freq Error -54.741 kHz

x dB Bandwidth 73.818 MHz

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3485.01	99	26	1	Peak	67.63	77.07	70	Pass

Agilent
Measure

Ch Freq 3.48501 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

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

Occupied Bandwidth	Occ BW % Pwr 99.00 %
67.6278 MHz	x dB -26.00 dB
Transmit Freq Error 21.309 kHz	
x dB Bandwidth 77.073 MHz	

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

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

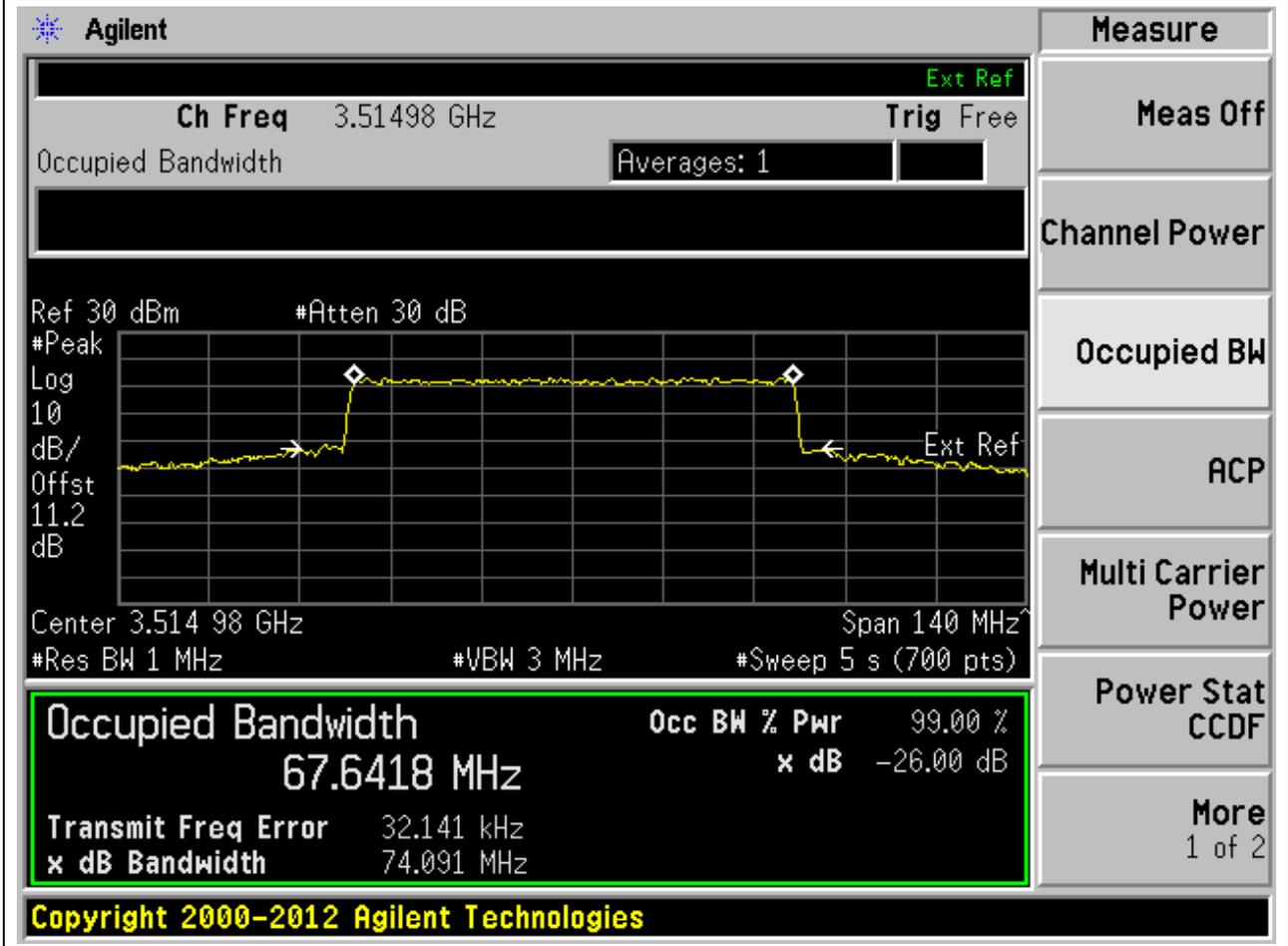
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	67.63	74.19	70	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 3.49998 GHz. The main display shows a spectrum plot with a yellow trace. The y-axis is labeled 'Log 10 dB/Offst 11.3 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 67.6302 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is 35.021 kHz and the 'x dB Bandwidth' is 74.191 MHz. 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'. The bottom of the screen shows the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	x dB
67.6302 MHz	99.00 %	-26.00 dB

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3514.98	99	26	1	Peak	67.64	74.09	70	Pass



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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3485.01	99	26	1	Peak	67.45	70.59	70	Pass

Agilent

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

Ch Freq 3.48501 GHz
Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak

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

Occupied Bandwidth
67.4507 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 12.961 kHz
x dB Bandwidth 70.589 MHz

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	67.46	70.56	70	Pass

Agilent
Measure

Ch Freq 3.49998 GHz Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.499 98 GHz Span 140 MHz

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

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

Occupied Bandwidth	Occ BW % Pwr 99.00 %
67.4575 MHz	x dB -26.00 dB
Transmit Freq Error 14.248 kHz	
x dB Bandwidth 70.560 MHz	

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3514.98	99	26	1	Peak	67.46	70.55	70	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 3.51498 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 11.2 dB', 'Center 3.514 98 GHz', 'Span 140 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 5 s (700 pts)'. A green box highlights the measurement results: 'Occupied Bandwidth 67.4629 MHz', 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error 16.918 kHz', and 'x dB Bandwidth 70.554 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'.

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3490.02	99	26	1	Peak	77.56	80.57	80	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 3.49002 GHz. The main display shows a spectrum plot with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box, showing a value of 77.5616 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters include Transmit Freq Error of -4.264 kHz and x dB Bandwidth of 80.573 MHz. The interface also shows various measurement buttons on the right side, such as 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen displays the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	77.47	80.65	80	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal trace with a yellow line representing the signal level. The center frequency is 3.49998 GHz, and the span is 160 MHz. The occupied bandwidth is measured as 77.4717 MHz, which is 99.00% of the 80 MHz channel bandwidth. The XdB down is -26.00 dB. The interface includes various measurement controls and a 'Measure' menu on the right side.

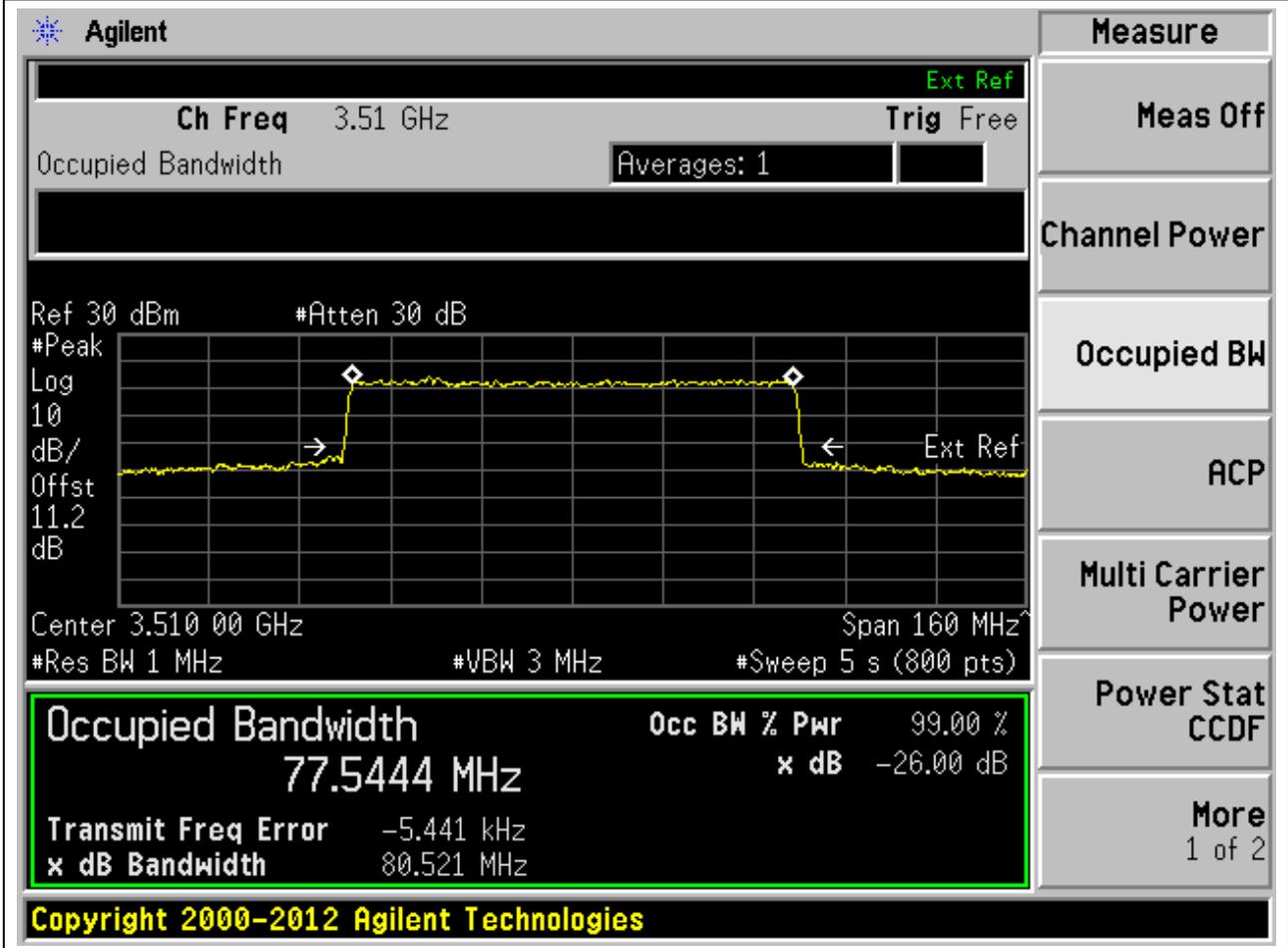
Occupied Bandwidth	Occ BW % Pwr	x dB
77.4717 MHz	99.00 %	-26.00 dB

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

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3510	99	26	1	Peak	77.54	80.52	80	Pass



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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3490.02	99	26	1	Peak	77.67	80.8	80	Pass

Agilent
Measure

Ch Freq 3.49002 GHz
Trig Free

Occupied Bandwidth
Averages: 1

Ref 30 dBm #Atten 30 dB

Center 3.490 02 GHz Span 160 MHz

#Res BW 1 MHz #VBW 3 MHz #Sweep 5 s (800 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
77.6668 MHz	x dB -26.00 dB
Transmit Freq Error -47.044 kHz	
x dB Bandwidth 80.804 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(NTNV)(Channel:633332, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:217, RB Position:0)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	77.65	80.7	80	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 3.49998 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 10 dB offset, and a 11.3 dB resolution bandwidth. The occupied bandwidth is highlighted in a green box with the following values:

Occupied Bandwidth	Occ BW % Pwr	99.00 %
77.6501 MHz	x dB	-26.00 dB
Transmit Freq Error		-56.986 kHz
x dB Bandwidth		80.703 MHz

Additional parameters shown include a center frequency of 3.499 98 GHz, a span of 160 MHz, a resolution bandwidth of 1 MHz, a video bandwidth of 3 MHz, and a sweep time of 5 s (800 pts). The right-hand side of the interface features 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 displays the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3510	99	26	1	Peak	77.65	80.79	80	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the center frequency is 3.51 GHz. The main display shows a spectrum plot with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box, showing a value of 77.6544 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters include Transmit Freq Error of -59.759 kHz and x dB Bandwidth of 80.789 MHz. The interface also shows various measurement buttons on the right side, such as 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen displays the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3490.02	99	26	1	Peak	77.43	80.71	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
dB/

10
Offst

11.3
dB

#Res BW 1 MHz
#VBW 3 MHz
#Sweep 5 s (800 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
77.4320 MHz	x dB -26.00 dB
Transmit Freq Error 70.651 kHz	
x dB Bandwidth 80.710 MHz	

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3499.98	99	26	1	Peak	77.45	80.67	80	Pass

Agilent

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

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth Averages: 1

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.3 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 %
77.4531 MHz	x dB -26.00 dB
Transmit Freq Error 53.096 kHz	
x dB Bandwidth 80.670 MHz	

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2.80. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	77.45	80.68	80	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 3.51 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 with a green box, showing a value of 77.4453 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The plot also shows the transmit frequency error as 69.738 kHz and the XdB bandwidth as 80.679 MHz. The interface includes various measurement buttons on the right side, such as 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More'. The bottom of the screen displays the copyright information: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	x dB
77.4453 MHz	99.00 %	-26.00 dB

Transmit Freq Error: 69.738 kHz
x dB Bandwidth: 80.679 MHz

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2.81. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	77.36	80.63	80	Pass

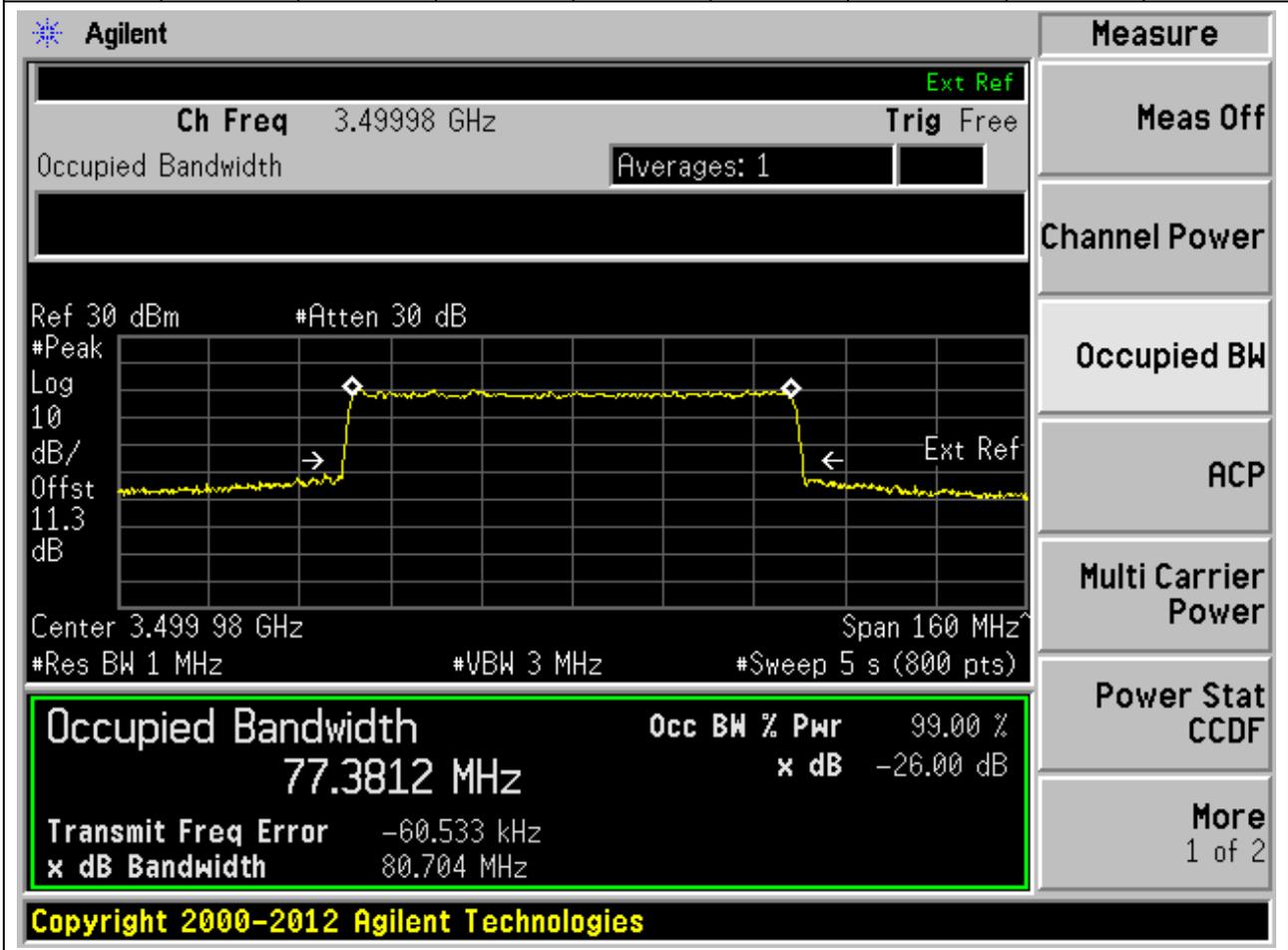
The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 3.49002 GHz' and 'Trig Free'. The 'Occupied Bandwidth' measurement is active, with 'Averages: 1'. The main display area shows a spectrum plot with a yellow trace. The plot parameters include 'Ref 30 dBm', '#Atten 30 dB', '#Peak', 'Log', '10 dB/Offst', and '11.3 dB'. The plot shows a signal with a flat top and sloped sides, with 'Ext Ref' markers on the top edge. Below the plot, the following parameters are listed: 'Center 3.490 02 GHz', 'Span 160 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 5 s (800 pts)'. A summary box at the bottom left contains the following data:

Occupied Bandwidth	Occ BW % Pwr	99.00 %
77.3602 MHz	x dB	-26.00 dB
Transmit Freq Error		-39.948 kHz
x dB Bandwidth		80.630 MHz

On the right side of the interface, there is a 'Measure' menu with options: 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. At the bottom of the screen, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.

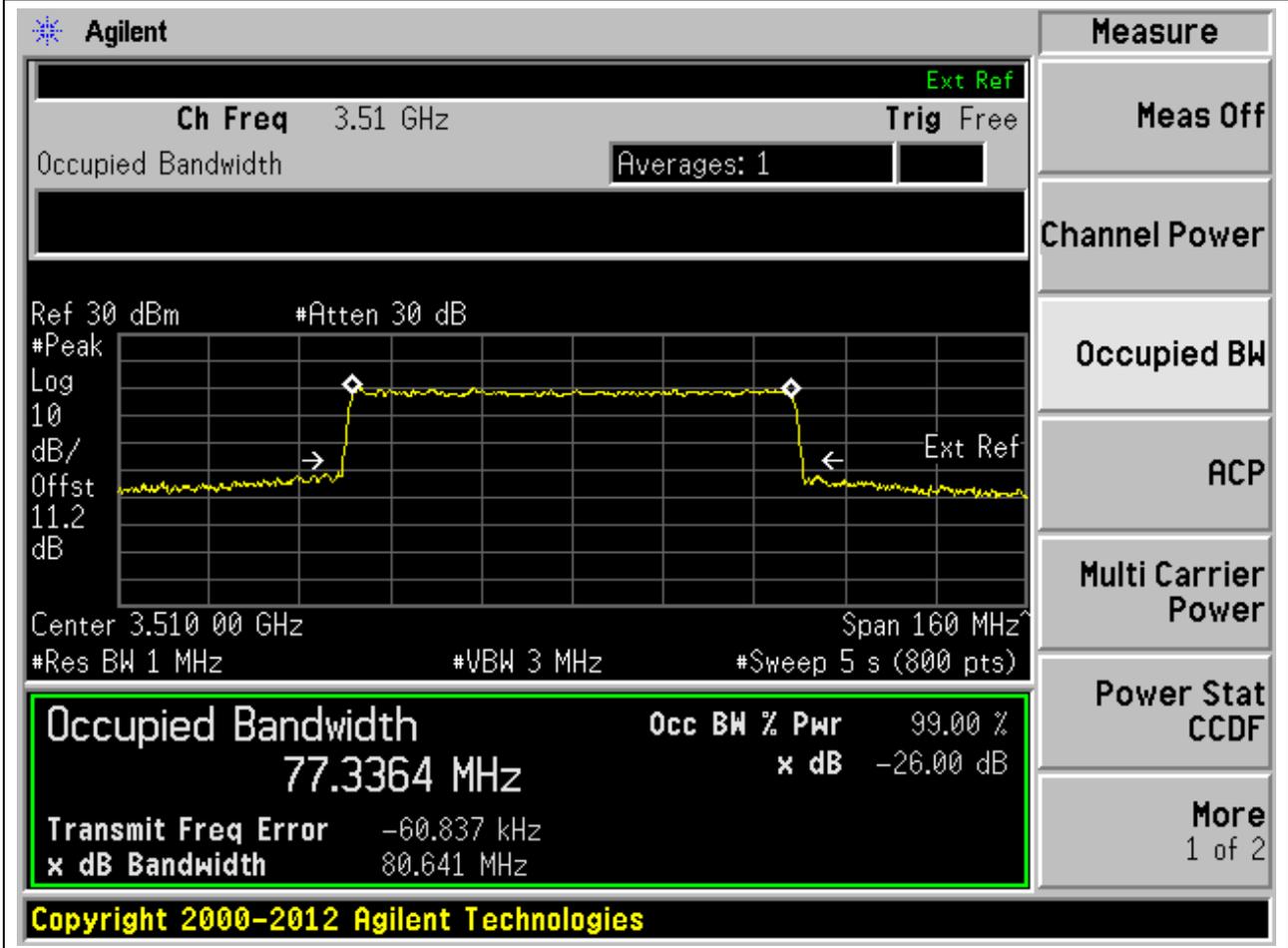
2.82. Occupied Bandwidth for SA_Part22-24-27(NTNV)(Channel:633332, Bandwidth:80, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:217, RB Position:0)

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	77.38	80.7	80	Pass



2.83. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	80.64	80	Pass



2.84. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	87.44	90.77	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal trace with a yellow line representing the signal level. The center frequency is 3.495 GHz, and the span is 180 MHz. The occupied bandwidth is measured as 87.4378 MHz, which is 99.00% of the 90 MHz channel bandwidth. The XdB down is -26.00 dB. The transmit frequency error is -33.555 kHz, and the x dB bandwidth is 90.768 MHz. The interface includes various measurement controls and a 'Measure' menu on the right side.

Occupied Bandwidth	Occ BW % Pwr	x dB
87.4378 MHz	99.00 %	-26.00 dB

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2.85. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	87.43	91.03	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal trace with a yellow line representing the signal level. The center frequency is 3.49998 GHz, and the span is 180 MHz. The occupied bandwidth is measured as 87.4293 MHz, which is 99.00% of the channel bandwidth. The XdB down is -26.00 dB. The interface includes various measurement controls and a 'Measure' menu on the right side.

Occupied Bandwidth	Occ BW % Pwr	x dB
87.4293 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 11.3 dB, Center 3.499 98 GHz, Span 180 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (900 pts), Transmit Freq Error -60.745 kHz, and x dB Bandwidth 91.031 MHz.

2.86. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	87.58	90.84	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 3.50499 GHz' and 'Trig Free'. The 'Occupied Bandwidth' measurement is active, with 'Averages: 1'. The main display area shows a spectrum plot with a yellow trace. The plot parameters include 'Ref 30 dBm', '#Atten 30 dB', '#Peak Log 10 dB/Offst 11.3 dB', 'Center 3.504 99 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 87.5799 MHz', 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error 21.901 kHz', and 'x dB Bandwidth 90.840 MHz'. On the right side, there is a 'Measure' menu 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 shows the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

2.87. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	87.33	90.77	90	Pass

Agilent

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

Ch Freq 3.495 GHz Ext Ref Trig Free

Occupied Bandwidth Averages: 1

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 %
87.3333 MHz	x dB -26.00 dB
Transmit Freq Error -66.593 kHz	
x dB Bandwidth 90.767 MHz	

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2.88. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	90.67	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is 3.49998 GHz. The main display shows a spectrum plot with a yellow trace. The 'Occupied Bandwidth' measurement is highlighted in a green box, showing a value of 87.3130 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters include Transmit Freq Error of -76.550 kHz and x dB Bandwidth of 90.667 MHz. The interface also shows various measurement buttons on the right side, such as 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen displays the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

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

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3504.99	99	26	1	Peak	87.34	90.71	90	Pass

Agilent

Measure

Ch Freq 3.50499 GHz
Trig Free

Occupied Bandwidth

Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log 10 dB/Offst 11.3 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 %
87.3365 MHz	x dB -26.00 dB
Transmit Freq Error -16.472 kHz	
x dB Bandwidth 90.714 MHz	

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

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2.97. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	87.45	90.7	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 3.495 GHz, and the span is 180 MHz. The occupied bandwidth is measured as 87.4502 MHz. The power is 99.00% and the XdB down is -26.00 dB. The detector is set to Peak. The RBW is 1 MHz and the VBW is 3 MHz. The sweep time is 5 s (900 pts). The interface also shows a 'Measure' menu with options like Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More. The copyright notice at the bottom reads 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	x dB
87.4502 MHz	99.00 %	-26.00 dB

Transmit Freq Error: -6.450 kHz
 x dB Bandwidth: 90.703 MHz

2.89. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	87.48	90.87	90	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

11.3
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 %
87.4796 MHz	x dB -26.00 dB
Transmit Freq Error	-33.296 kHz
x dB Bandwidth	90.867 MHz

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

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2.98. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	90.7	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal trace with a yellow line representing the signal level. The measurement results are summarized in a table at the bottom of the screen:

Measurement	Value
Occupied Bandwidth	87.3402 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-42.658 kHz
x dB Bandwidth	90.696 MHz

Additional parameters shown in the interface include: Ch Freq 3.50499 GHz, Trig Free, Averages: 1, Ref 30 dBm, #Atten 30 dB, #Peak, Log, 10 dB/Offst, 11.3 dB, Center 3.504 99 GHz, Span 180 MHz, #Res BW 1 MHz, #VBW 3 MHz, #Sweep 5 s (900 pts).

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2.99. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	87.23	90.55	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal trace with a yellow line representing the signal level. The trace is centered at 3.495 GHz with a span of 180 MHz. The signal level is approximately 10 dBm, and the noise floor is around -11.3 dBm. The occupied bandwidth is measured as 87.2322 MHz, which is 99.00% of the channel bandwidth. The XdB Down is -26.00 dB. The transmit frequency error is -30.078 kHz, and the XdB Bandwidth is 90.548 MHz. The interface also shows various settings such as Res BW (1 MHz), VBW (3 MHz), and Sweep (5 s, 900 pts). A 'Measure' panel on the right side of the screen lists various measurement options, including Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More (1 of 2).

Occupied Bandwidth	Occ BW % Pwr	x dB
87.2322 MHz	99.00 %	-26.00 dB

Transmit Freq Error: -30.078 kHz
 x dB Bandwidth: 90.548 MHz

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2.90. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	87.55	90.8	90	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 11.3 dB

Center 3.499 98 GHz Span 180 MHz

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

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

Occupied Bandwidth

87.5515 MHz

Transmit Freq Error -76.028 kHz

x dB Bandwidth 90.798 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

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2.100. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	87.53	90.73	90	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 3.50499 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is set to 'Log' scale with a 'Ref 30 dBm' and '#Atten 30 dB'. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 87.5329 MHz. Other parameters shown include 'Center 3.504 99 GHz', 'Span 180 MHz', '#Res BW 1 MHz', '#VBW 3 MHz', and '#Sweep 5 s (900 pts)'. The 'Occupied Bandwidth' summary table is as follows:

Occupied Bandwidth	Occ BW % Pwr	x dB
87.5329 MHz	99.00 %	-26.00 dB

Additional parameters shown include 'Transmit Freq Error -72.724 kHz' and 'x dB Bandwidth 90.733 MHz'. The right-hand side of the interface features 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 displays the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

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2.91. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	97.33	100.89	100	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 200 MHz. The occupied bandwidth is measured as 97.3299 MHz, which is 99.00% of the 100 MHz channel bandwidth. The XdB down is -26.00 dB. The interface includes various measurement controls and a list of available measurement functions on the right side.

Measurement	Value
Occupied Bandwidth	97.3299 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	12.545 kHz
x dB Bandwidth	100.893 MHz

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2.92. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	97.49	100.79	100	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 200 MHz. The occupied bandwidth is measured as 97.4926 MHz, which is 99.00% of the channel bandwidth. The XdB down is -26.00 dB. The transmit frequency error is 14.798 kHz, and the XdB bandwidth is 100.793 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
97.4926 MHz	99.00 %	-26.00 dB

Transmit Freq Error: 14.798 kHz
 x dB Bandwidth: 100.793 MHz

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2.93. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	97.33	100.89	100	Pass

Agilent

Measure

Ch Freq 3.49998 GHz
Trig Free

Occupied Bandwidth

Averages: 1

Ref 30 dBm
#Atten 30 dB

#Peak
Ext Ref

Log
→
←

10
dB/
Offst

11.3
dB

Center 3.499 98 GHz
Span 200 MHz

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

Occupied Bandwidth

97.3307 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error 24.175 kHz

x dB Bandwidth 100.890 MHz

Power Stat

CCDF

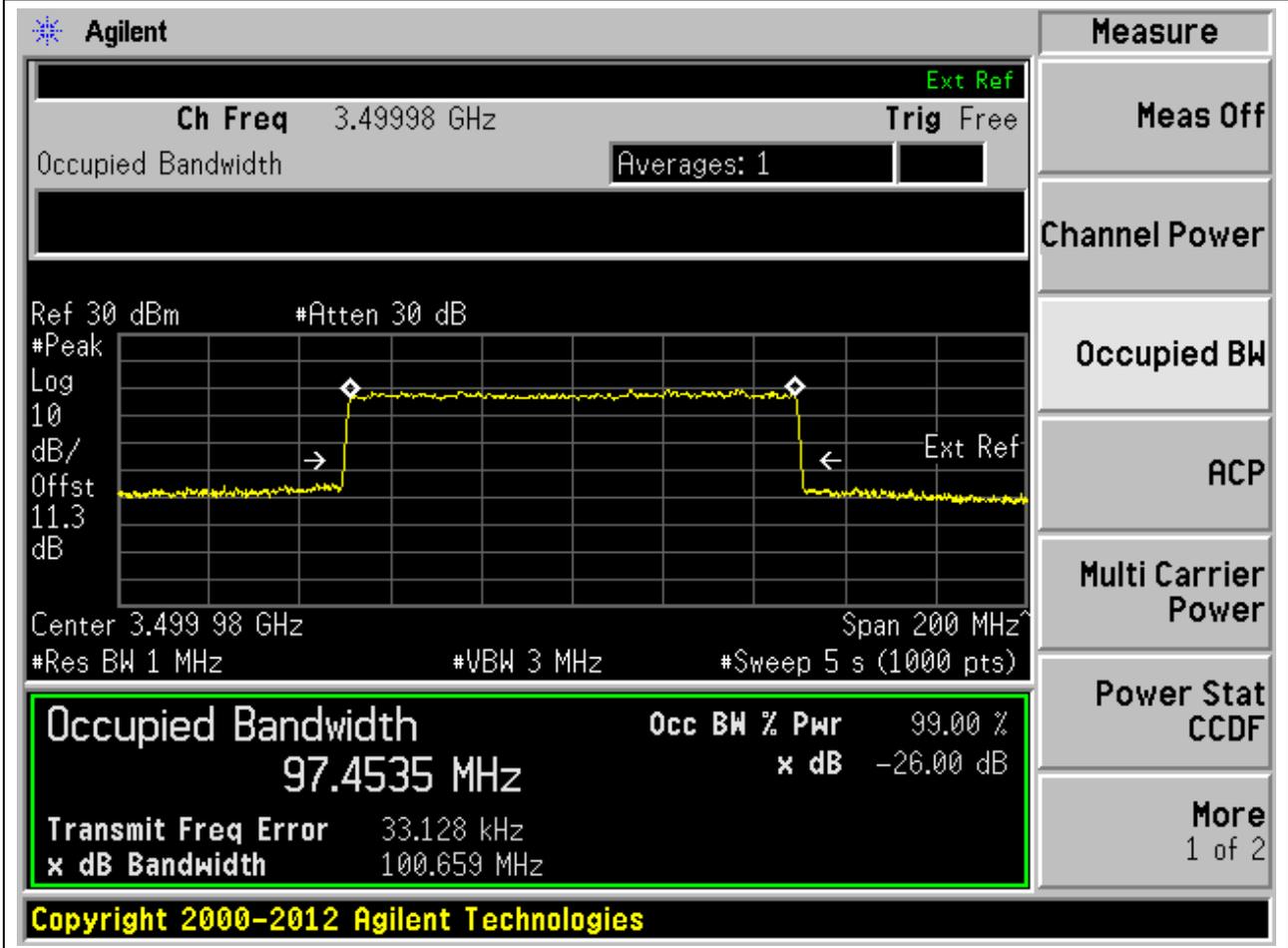
More

1 of 2

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2.94. Occupied Bandwidth for SA_Part22-24-27(NTNV)(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	97.45	100.66	100	Pass



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