

**16.10. LTE Occupied Bandwidth\_Part90(NTNV)(Subtest:10, Channel:26740, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
819	99	26	0.062	Peak	2.688	2.951	3	Pass

Agilent
Measure

Ch Freq 819 MHz
Trig Free

Occupied Bandwidth
Averages: 2

Ref 28.93 dBm
#Atten 30 dB

#Peak
Log

10
dB/

Offst
8.93

dB

Center 819.000 MHz
Span 6 MHz

#Res BW 62 kHz
#VBW 200 kHz
#Sweep 1 s (483 pts)

Occupied Bandwidth
Occ BW % Pwr 99.00 %

2.6875 MHz
x dB -26.00 dB

Transmit Freq Error -5.704 kHz

x dB Bandwidth 2.951 MHz

Power Stat CCDF

More 1 of 2

Copyright 2000-2012 Agilent Technologies

**16.11. LTE Occupied Bandwidth\_Part90(NTNV)(Subtest:11, Channel:26775, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
822.5	99	26	0.062	Peak	2.691	2.95	3	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 822.5 MHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot parameters include 'Ref 28.93 dBm', '#Atten 30 dB', 'Log 10 dB/Offst 8.94 dB', 'Center 822.500 MHz', 'Span 6 MHz', '#Res BW 62 kHz', '#VBW 200 kHz', and '#Sweep 1 s (483 pts)'. A green box highlights the measurement results: 'Occupied Bandwidth 2.6910 MHz', 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error -1.213 kHz', and 'x dB Bandwidth 2.950 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'.

**16.12. LTE Occupied Bandwidth\_Part90(NTNV)(Subtest:12, Channel:26775, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
822.5	99	26	0.062	Peak	2.69	2.943	3	Pass

Agilent
Measure

Ch Freq 822.5 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.93 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.94 dB

Center 822.500 MHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)

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

**2.6903 MHz** x dB -26.00 dB

Transmit Freq Error -2.866 kHz

x dB Bandwidth 2.943 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**16.13. LTE Occupied Bandwidth\_Part90(NTNV)(Subtest:13, Channel:26715, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
816.5	99	26	0.1	Peak	4.497	4.99	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is titled 'Occupied Bandwidth' and shows a signal centered at 816.500 MHz with a span of 10 MHz. The signal level is approximately 28.93 dBm, and the attenuation is 30 dB. The occupied bandwidth is measured as 4.4968 MHz, which is 99.00% of the 4.990 MHz bandwidth. The transmit frequency error is -3.079 kHz. 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 %
4.4968 MHz	x dB	-26.00 dB
Transmit Freq Error	-3.079 kHz	
x dB Bandwidth	4.990 MHz	

**16.14. LTE Occupied Bandwidth\_Part90(NTNV)(Subtest:14, Channel:26715, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
816.5	99	26	0.1	Peak	4.489	4.956	5	Pass

Agilent
Measure

Ch Freq 816.5 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.93 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.93 dB

Center 816.500 MHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (500 pts)

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**Occupied Bandwidth**

**4.4892 MHz**

Transmit Freq Error -1.450 kHz

x dB Bandwidth 4.956 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Copyright 2000-2012 Agilent Technologies



**16.15. LTE Occupied Bandwidth\_Part90(NTNV)(Subtest:15, Channel:26740, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
819	99	26	0.1	Peak	4.494	4.96	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 819.000 MHz, and the span is 10 MHz. The occupied bandwidth is highlighted as 4.4938 MHz. The power level is 99.00% and the XdB down is -26.00 dB. 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 %
4.4938 MHz	x dB	-26.00 dB
Transmit Freq Error	-4.681 kHz	
x dB Bandwidth	4.960 MHz	

**16.16. LTE Occupied Bandwidth\_Part90(NTNV)(Subtest:16, Channel:26740, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
819	99	26	0.1	Peak	4.498	4.935	5	Pass

Agilent
Measure

Ch Freq 819 MHz
Trig Free

Occupied Bandwidth Averages: 2

Ref 28.93 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.93 dB

Center 819.000 MHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
4.4977 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> -3.084 kHz	
<b>x dB Bandwidth</b> 4.935 MHz	

Power Stat CCDF

More 1 of 2

Copyright 2000-2012 Agilent Technologies

**16.17. LTE Occupied Bandwidth\_Part90(NTNV)(Subtest:17, Channel:26765, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
821.5	99	26	0.1	Peak	4.487	4.937	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 821.5 MHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot parameters include 'Ref 28.93 dBm', '#Atten 30 dB', 'Log 10 dB/Offst 8.93 dB', 'Center 821.500 MHz', 'Span 10 MHz', '#Res BW 100 kHz', '#VBW 300 kHz', and '#Sweep 1 s (500 pts)'. A green box highlights the measurement results: 'Occupied Bandwidth 4.4872 MHz', 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error -1.018 kHz', and 'x dB Bandwidth 4.937 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'.



**16.18. LTE Occupied Bandwidth\_Part90(NTNV)(Subtest:18, Channel:26765, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
821.5	99	26	0.1	Peak	4.488	4.961	5	Pass

Agilent
Measure

Ch Freq 821.5 MHz
Trig Free

Occupied Bandwidth Averages: 2

Ref 28.93 dBm #Atten 30 dB

Center 821.500 MHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
4.4884 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-5.353 kHz
<b>x dB Bandwidth</b>	4.961 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

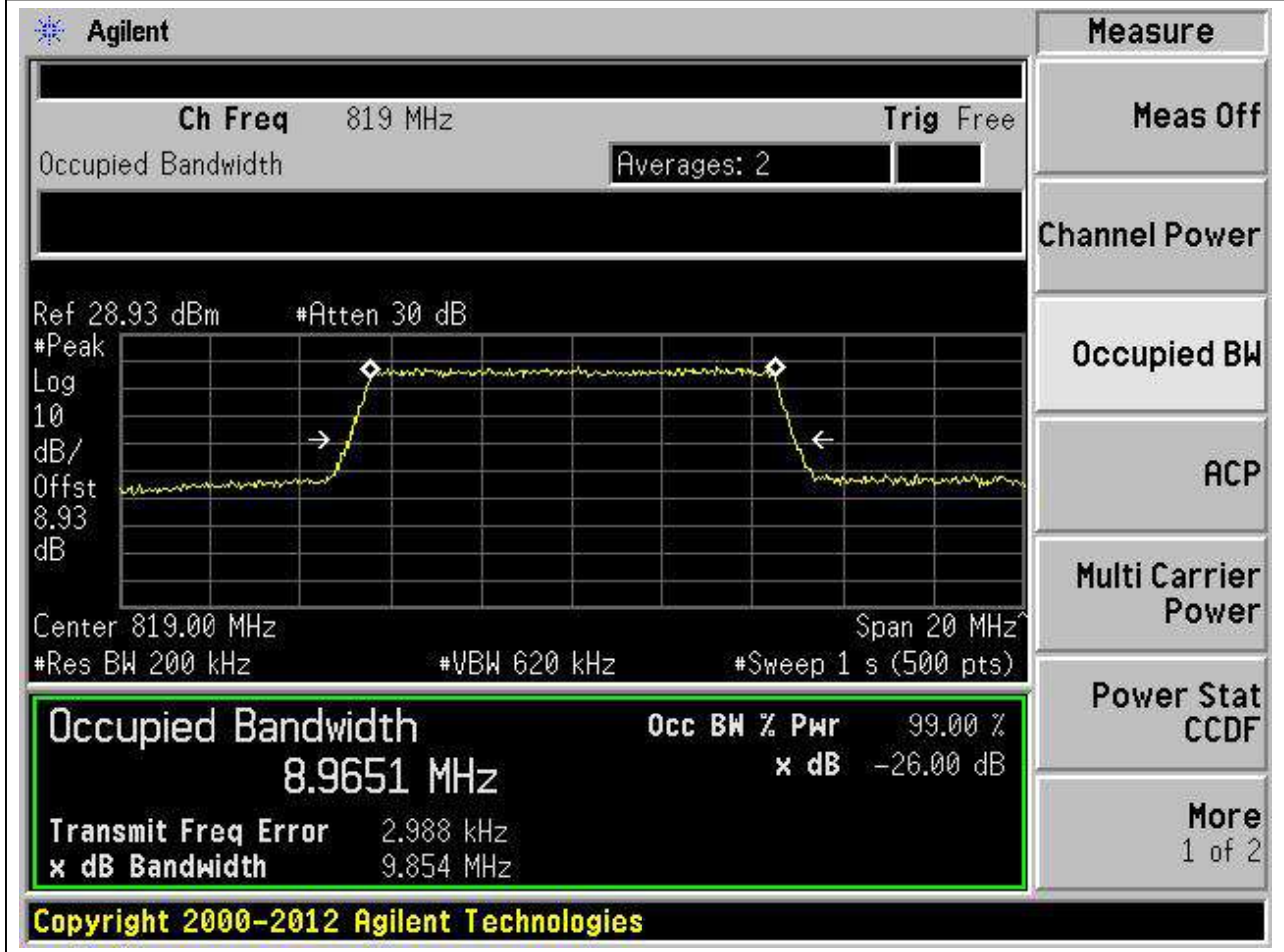
Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**16.19. LTE Occupied Bandwidth\_Part90(NTNV)(Subtest:19, Channel:26740, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
819	99	26	0.2	Peak	8.965	9.854	10	Pass



**16.20. LTE Occupied Bandwidth\_Part90(NTNV)(Subtest:20, Channel:26740, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
819	99	26	0.2	Peak	8.955	9.805	10	Pass

Agilent
Measure

Ch Freq 819 MHz Trig Free

Occupied Bandwidth Averages: 2

Ref 28.93 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 8.93 dB

Center 819.00 MHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**Occupied Bandwidth**

**8.9546 MHz**

Occ BW % Pwr 99.00 %

x dB -26.00 dB

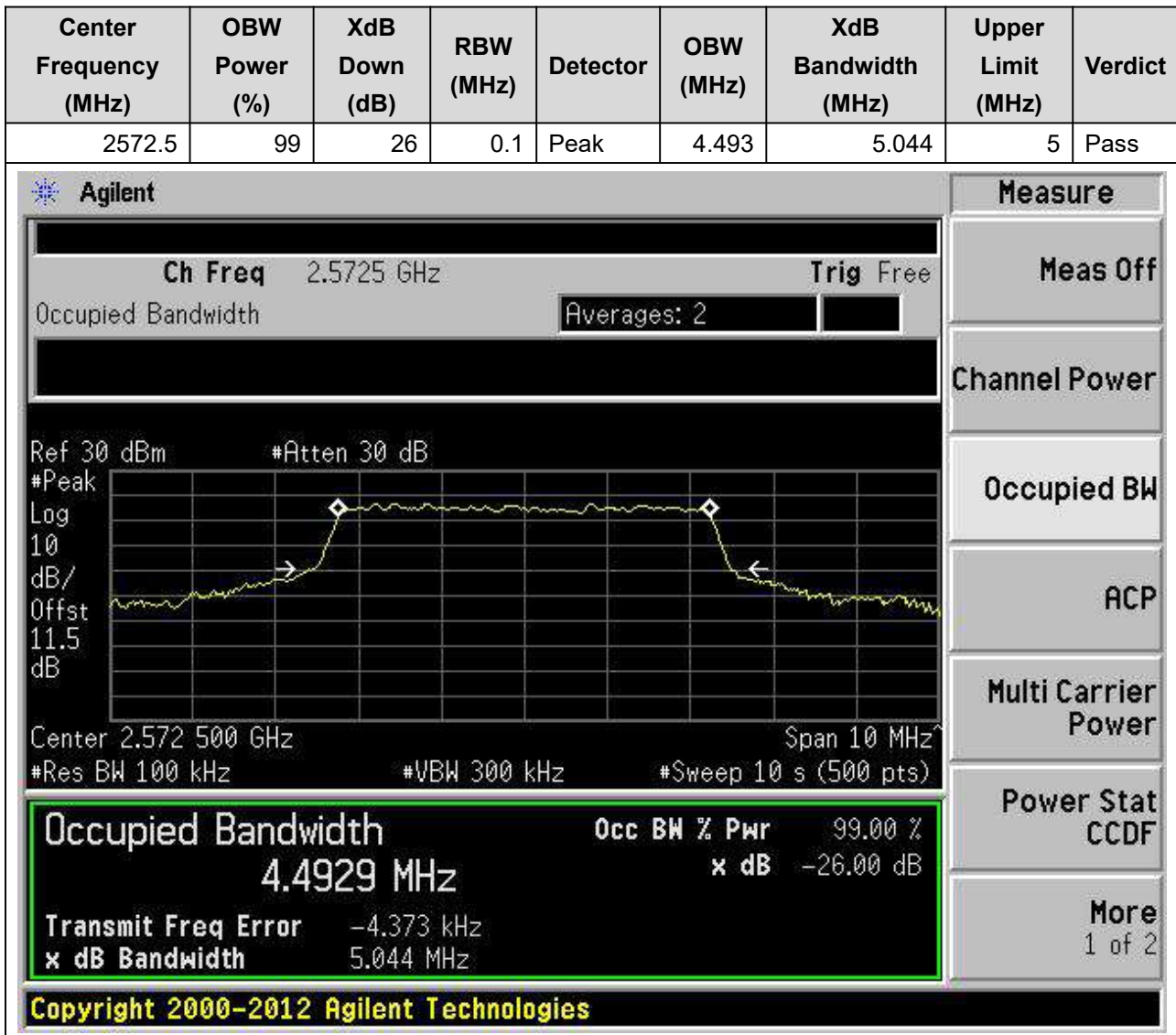
Transmit Freq Error 3.768 kHz

x dB Bandwidth 9.805 MHz

Copyright 2000-2012 Agilent Technologies

## 17. LTE\_Band38

### 17.1. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:1, Channel:37775, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)



**17.2. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:2, Channel:37775, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2572.5	99	26	0.1	Peak	4.498	5.076	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.5725 GHz, and the span is 10 MHz. The occupied bandwidth is highlighted as 4.4984 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -2.423 kHz. The XdB bandwidth is 5.076 MHz. The interface includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More'. The bottom of the screen shows the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
4.4984 MHz	x dB	-26.00 dB
Transmit Freq Error		-2.423 kHz
x dB Bandwidth		5.076 MHz



**17.3. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:3, Channel:38000, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.1	Peak	4.515	5.412	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 2.595 GHz. The Occupied Bandwidth is measured as 4.5152 MHz, which is 99.00% of the channel bandwidth. The XdB Down is -26.00 dB. The transmit frequency error is -4.687 kHz. The x dB Bandwidth is 5.412 MHz. The interface includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More'. The bottom of the screen shows the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
4.5152 MHz	x dB	-26.00 dB
Transmit Freq Error		-4.687 kHz
x dB Bandwidth		5.412 MHz

**17.4. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:4, Channel:38000, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.1	Peak	4.492	5.075	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.595 GHz, and the span is 10 MHz. The occupied bandwidth is highlighted as 4.4924 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -6.516 kHz. The XdB bandwidth is 5.075 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
4.4924 MHz	99.00 %	-26.00 dB

Transmit Freq Error: -6.516 kHz  
x dB Bandwidth: 5.075 MHz

Copyright 2000-2012 Agilent Technologies

**17.5. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:5, Channel:38225, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2617.5	99	26	0.1	Peak	4.504	5.321	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.6175 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', '11.6 dB', 'Center 2.617 500 GHz', 'Span 10 MHz', '#Res BW 100 kHz', '#VBW 300 kHz', and '#Sweep 10 s (500 pts)'. A green box highlights the measurement results: 'Occupied Bandwidth 4.5043 MHz', 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error -1.854 kHz', and 'x dB Bandwidth 5.321 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'.

**17.6. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:6, Channel:38225, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2617.5	99	26	0.1	Peak	4.498	5.03	5	Pass

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

Measurement	Value
Occupied Bandwidth	4.4984 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-2.075 kHz
x dB Bandwidth	5.030 MHz

Additional parameters shown in the interface include: Ch Freq 2.6175 GHz, Trig Free, Averages: 2, Ref 30 dBm, #Atten 30 dB, #Peak, Log, 10 dB/Offst, 11.6 dB, Center 2.617 500 GHz, Span 10 MHz, #Res BW 100 kHz, #VBW 300 kHz, #Sweep 10 s (500 pts).

Copyright 2000-2012 Agilent Technologies

**17.7. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:7, Channel:37800, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2575	99	26	0.2	Peak	8.983	10.155	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 2.575 GHz. The 'Occupied Bandwidth' measurement is highlighted in green, showing a value of 8.9835 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters shown include Transmit Freq Error (10.527 kHz) and x dB Bandwidth (10.155 MHz). The interface also includes a 'Measure' menu with options like Meas Off, Channel Power, Occupied BW, ACP, Multi Carrier Power, Power Stat CCDF, and More.

Occupied Bandwidth	Occ BW % Pwr	x dB
8.9835 MHz	99.00 %	-26.00 dB

Copyright 2000-2012 Agilent Technologies



**17.8. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:8, Channel:37800, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2575	99	26	0.2	Peak	8.989	9.865	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.575 GHz, and the span is 20 MHz. The occupied bandwidth is highlighted with a green box, showing a value of 8.9892 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The interface also shows various measurement parameters like Res BW, VBW, and Sweep.

Occupied Bandwidth	Occ BW % Pwr	x dB
8.9892 MHz	99.00 %	-26.00 dB

Other parameters shown in the screenshot include: Ch Freq 2.575 GHz, Trig Free, Averages: 2, Ref 30 dBm, #Atten 30 dB, #Peak Log, 10 dB/Offst, 11.5 dB, Center 2.575 00 GHz, Span 20 MHz, #Res BW 200 kHz, #VBW 620 kHz, #Sweep 10 s (500 pts), Transmit Freq Error 2.234 kHz, x dB Bandwidth 9.865 MHz.

Copyright 2000-2012 Agilent Technologies

**17.9. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:9, Channel:38000, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.2	Peak	8.993	10.649	10	Pass

Agilent
Measure

Ch Freq 2.595 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

Center 2.595 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 10 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
8.9935 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-7.667 kHz
<b>x dB Bandwidth</b>	10.649 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**17.10. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:10, Channel:38000, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.2	Peak	8.962	9.754	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	8.9624 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-8.239 kHz
x dB Bandwidth	9.754 MHz

Other visible parameters include: Ch Freq 2.595 GHz, Trig Free, Averages: 2, Ref 30 dBm, #Atten 30 dB, Center 2.595 00 GHz, Span 20 MHz, #Res BW 200 kHz, #VBW 620 kHz, #Sweep 10 s (500 pts).

Copyright 2000-2012 Agilent Technologies

**17.11. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:11, Channel:38200, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2615	99	26	0.2	Peak	9.002	10.199	10	Pass

Agilent
Measure

Ch Freq 2.615 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 11.6 dB

Center 2.615 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 10 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
9.0020 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> -7.164 kHz	
<b>x dB Bandwidth</b> 10.199 MHz	

Power Stat CCDF

More 1 of 2

Copyright 2000-2012 Agilent Technologies

**17.12. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:12, Channel:38200, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2615	99	26	0.2	Peak	8.973	9.968	10	Pass

Agilent
Measure

Ch Freq 2.615 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

Center 2.615 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 10 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>8.9732 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	-10.388 kHz	
<b>x dB Bandwidth</b>	9.968 MHz	

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

Copyright 2000-2012 Agilent Technologies



**17.13. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:13, Channel:37825, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2577.5	99	26	0.3	Peak	13.51	15.626	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, the channel frequency is set to 2.5775 GHz. The main display shows a spectrum plot with a yellow trace representing the signal. The plot is set to a logarithmic scale (Log) with a resolution bandwidth of 300 kHz and a video bandwidth of 1 MHz. The center frequency is 2.57750 GHz and the span is 30 MHz. The occupied bandwidth is measured as 13.5098 MHz, which is 99.00% of the 15 MHz channel bandwidth. The XdB bandwidth is -26.00 dB. The transmit frequency error is 8.762 kHz. 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'. The bottom of the screen displays the copyright information: Copyright 2000-2012 Agilent Technologies.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
13.5098 MHz	x dB	-26.00 dB
Transmit Freq Error	8.762 kHz	
x dB Bandwidth	15.626 MHz	

Copyright 2000-2012 Agilent Technologies

**17.14. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:14, Channel:37825, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2577.5	99	26	0.3	Peak	13.481	15.558	15	Pass

Agilent
Measure

Ch Freq 2.5775 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.5 dB

Center 2.577 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 10 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
<b>13.4809 MHz</b>	<b>x dB</b> -26.00 dB
<b>Transmit Freq Error</b> -18.622 kHz	
<b>x dB Bandwidth</b> 15.558 MHz	

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**17.15. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:15, Channel:38000, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

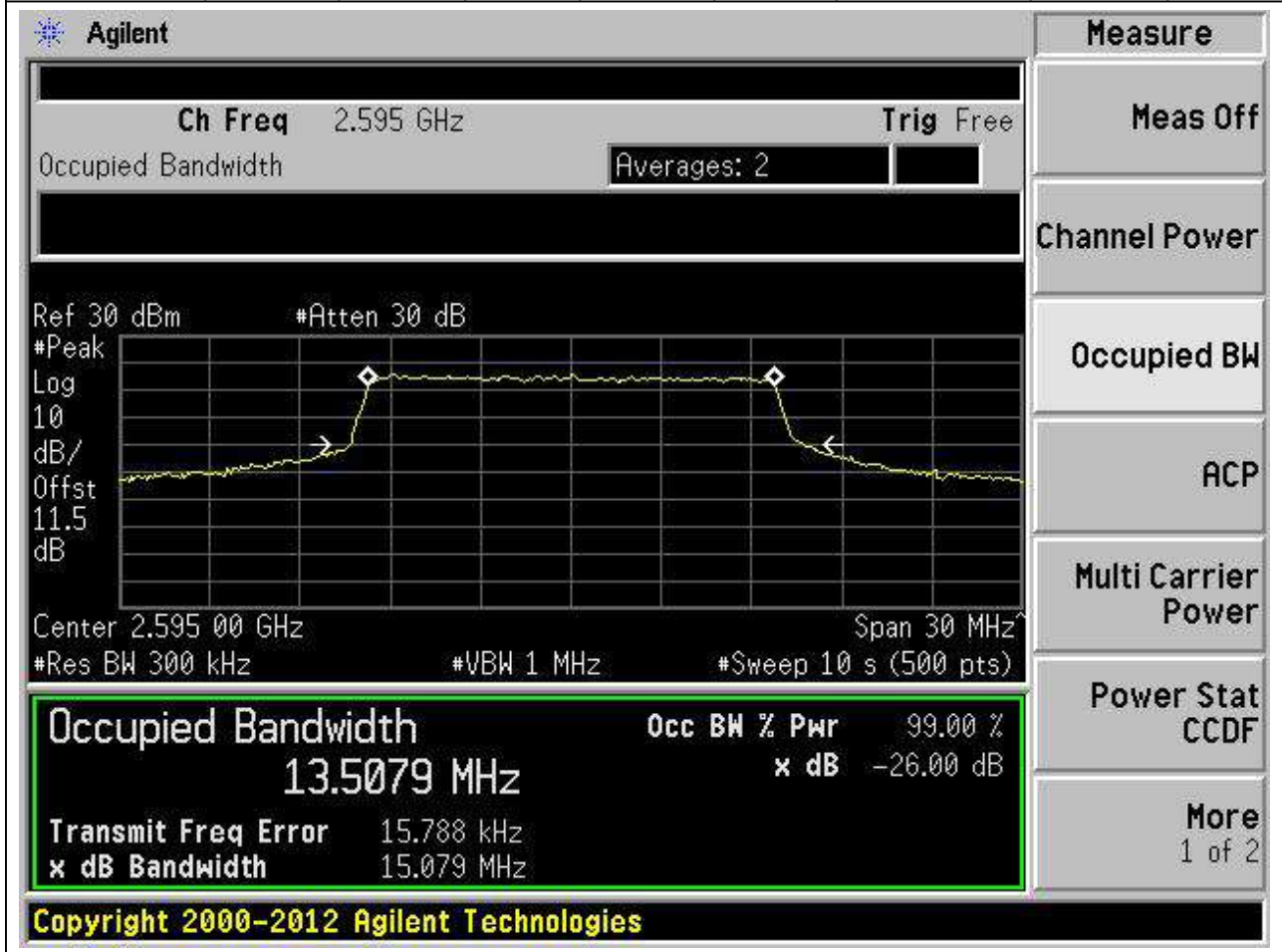
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.3	Peak	13.439	15.338	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.595 GHz and the span is 30 MHz. The occupied bandwidth is highlighted in green, showing a value of 13.4394 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -5.956 kHz and the XdB bandwidth is 15.338 MHz. The interface includes various measurement buttons on the right side, such as 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen shows the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
13.4394 MHz	x dB	-26.00 dB
Transmit Freq Error	-5.956 kHz	
x dB Bandwidth	15.338 MHz	

**17.16. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:16, Channel:38000, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.3	Peak	13.508	15.079	15	Pass



**17.17. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:17, Channel:38175, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2612.5	99	26	0.3	Peak	13.466	16.426	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.6125 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', '11.6 dB', 'Center 2.612 50 GHz', 'Span 30 MHz', '#Res BW 300 kHz', '#VBW 1 MHz', and '#Sweep 10 s (500 pts)'. A green box highlights the measurement results:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>13.4663 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		-12.718 kHz
<b>x dB Bandwidth</b>		16.426 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). At the bottom, it says 'Copyright 2000-2012 Agilent Technologies'.



**17.18. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:18, Channel:38175, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2612.5	99	26	0.3	Peak	13.5	15.363	15	Pass

Agilent
Measure

Ch Freq 2.6125 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 11.6 dB

Center 2.612 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 10 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
13.5004 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> -19.622 kHz	
<b>x dB Bandwidth</b> 15.363 MHz	

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**17.19. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:19, Channel:37850, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2580	99	26	0.39	Peak	17.963	19.4	20	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 2.58 GHz and a span of 40 MHz. The vertical axis is labeled 'Log 10 dB/Offst 11.6 dB'. The horizontal axis is labeled 'Center 2.580 00 GHz' and 'Span 40 MHz'. The plot shows a signal with a peak at approximately 2.58 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 17.9634 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -20.488 kHz and the 'x dB Bandwidth' is 19.400 MHz. The 'Copyright 2000-2012 Agilent Technologies' is displayed at the bottom.

Occupied Bandwidth	Occ BW % Pwr	x dB
17.9634 MHz	99.00 %	-26.00 dB

Copyright 2000-2012 Agilent Technologies

**17.20. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:20, Channel:37850, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2580	99	26	0.39	Peak	17.94	20.315	20	Pass

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

Measurement	Value
Occupied Bandwidth	17.9403 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-30.829 kHz
x dB Bandwidth	20.315 MHz

Additional parameters shown in the interface include: Ch Freq 2.58 GHz, Trig Free, Averages: 2, Ref 30 dBm, #Atten 30 dB, Center 2.580 00 GHz, Span 40 MHz, #Res BW 390 kHz, #VBW 1.2 MHz, #Sweep 10 s (512 pts).

Copyright 2000-2012 Agilent Technologies

**17.21. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:21, Channel:38000, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.39	Peak	17.937	20.467	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 2.595 GHz, and the span is 40 MHz. The occupied bandwidth is highlighted in a green box, showing 17.9365 MHz. The power is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is 7.700 kHz, and the XdB bandwidth is 20.467 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.

Occupied Bandwidth	Occ BW % Pwr	x dB
17.9365 MHz	99.00 %	-26.00 dB

Copyright 2000-2012 Agilent Technologies

**17.22. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:22, Channel:38000, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

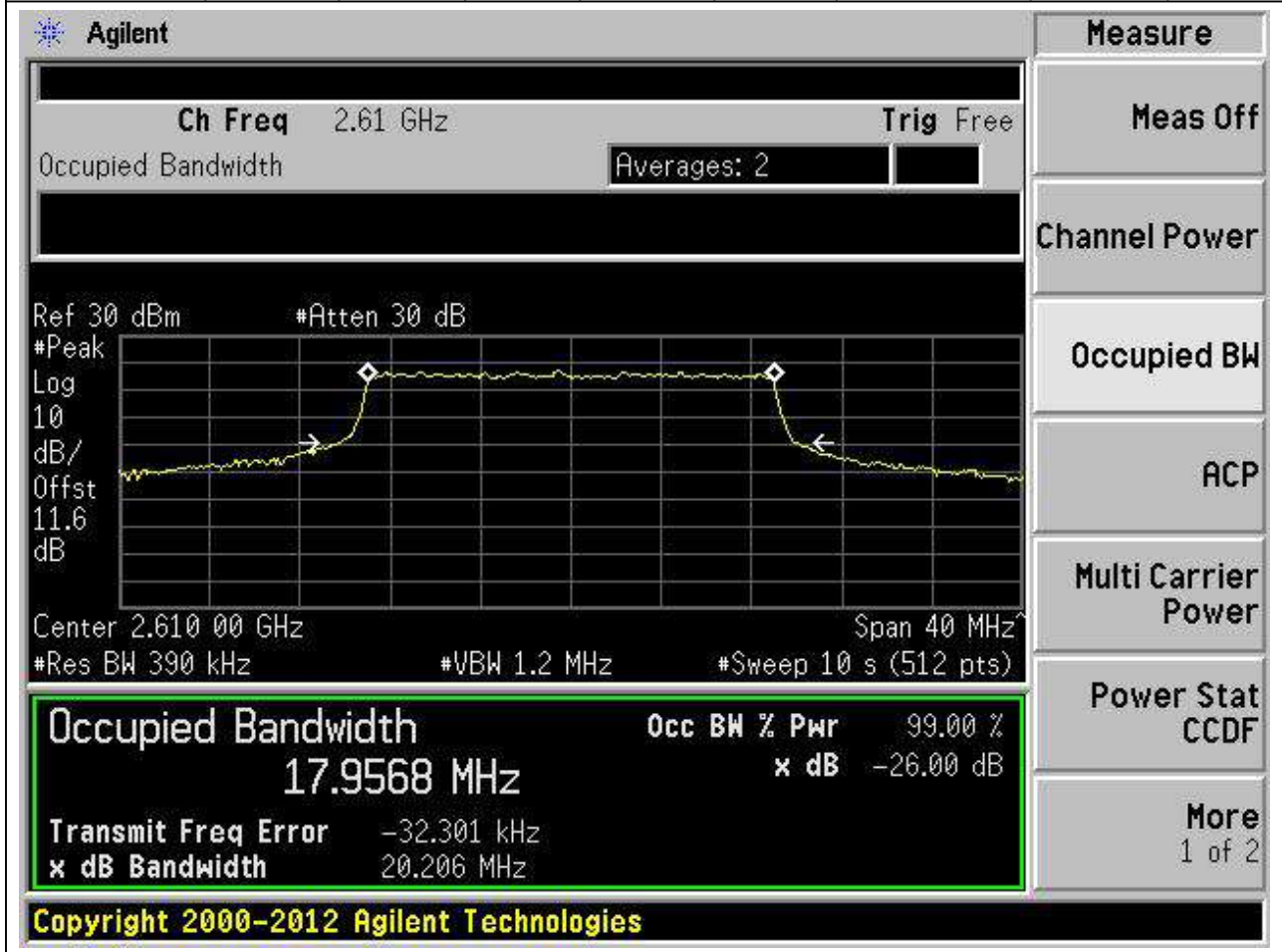
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.39	Peak	17.99	21.733	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.595 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', and '11.5 dB'. The plot shows a signal with a peak at approximately 2.595 GHz. Below the plot, the following parameters are displayed: 'Center 2.595 00 GHz', 'Span 40 MHz', '#Res BW 390 kHz', '#VBW 1.2 MHz', and '#Sweep 10 s (512 pts)'. A green box highlights the 'Occupied Bandwidth' measurement results: 'Occupied Bandwidth 17.9902 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Other parameters shown include 'Transmit Freq Error -24.356 kHz' and 'x dB Bandwidth 21.733 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'. At the bottom, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.



**17.23. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:23, Channel:38150, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2610	99	26	0.39	Peak	17.957	20.206	20	Pass



**17.24. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:24, Channel:38150, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2610	99	26	0.39	Peak	17.925	20	20	Pass

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

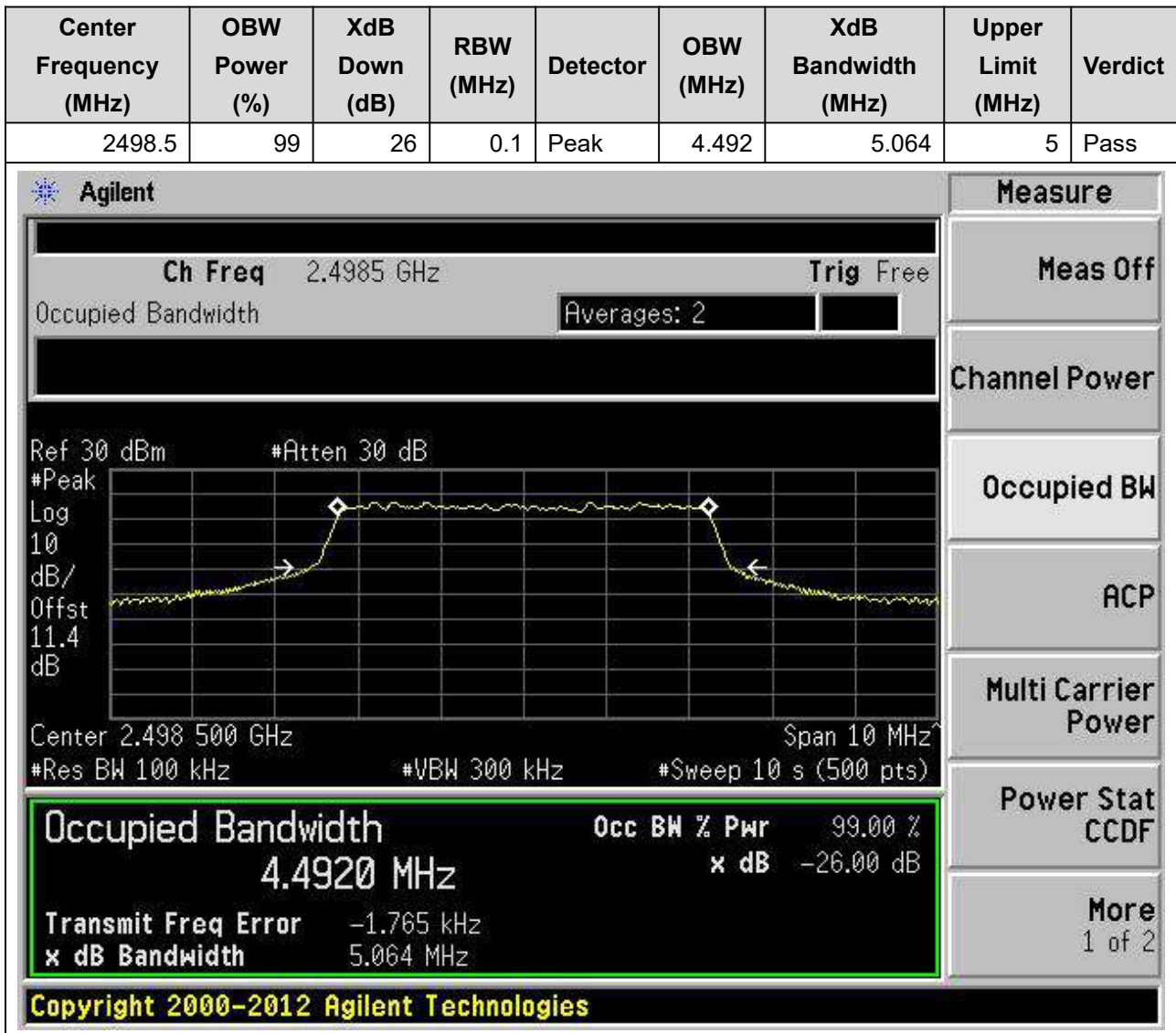
Measurement	Value
Occupied Bandwidth	17.9251 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-1.928 kHz
x dB Bandwidth	20.000 MHz

Other visible parameters include: Ch Freq 2.61 GHz, Trig Free, Averages: 2, Ref 30 dBm, #Atten 30 dB, #Peak, Log, 10 dB/Offst, 11.6 dB, Center 2.610 00 GHz, Span 40 MHz, #Res BW 390 kHz, #VBW 1.2 MHz, #Sweep 10 s (512 pts).

Copyright 2000-2012 Agilent Technologies

## 18. LTE\_Band41 full

### 18.1. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:1, Channel:39675, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)



**18.2. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:2, Channel:39675, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2498.5	99	26	0.1	Peak	4.498	5.053	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.4985 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', and '11.4 dB'. The plot shows a signal with a peak at approximately 2.4985 GHz. Below the plot, the following parameters are displayed: 'Center 2.498 500 GHz', 'Span 10 MHz', '#Res BW 100 kHz', '#VBW 300 kHz', and '#Sweep 10 s (500 pts)'. A green box highlights the 'Occupied Bandwidth' measurement results: 'Occupied Bandwidth 4.4976 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Other parameters shown include 'Transmit Freq Error -1.966 kHz' and 'x dB Bandwidth 5.053 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'. At the bottom, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.

**18.3. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:3, Channel:40620, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.1	Peak	4.516	5.537	5	Pass

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

Measurement	Value
Occupied Bandwidth	4.5162 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-5.561 kHz
x dB Bandwidth	5.537 MHz

Other visible parameters include: Ch Freq 2.593 GHz, Trig Free, Averages: 2, Ref 30 dBm, #Atten 30 dB, Center 2.593 000 GHz, Span 10 MHz, #Res BW 100 kHz, #VBW 300 kHz, #Sweep 10 s (500 pts).

Copyright 2000-2012 Agilent Technologies



**18.4. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:4, Channel:40620, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

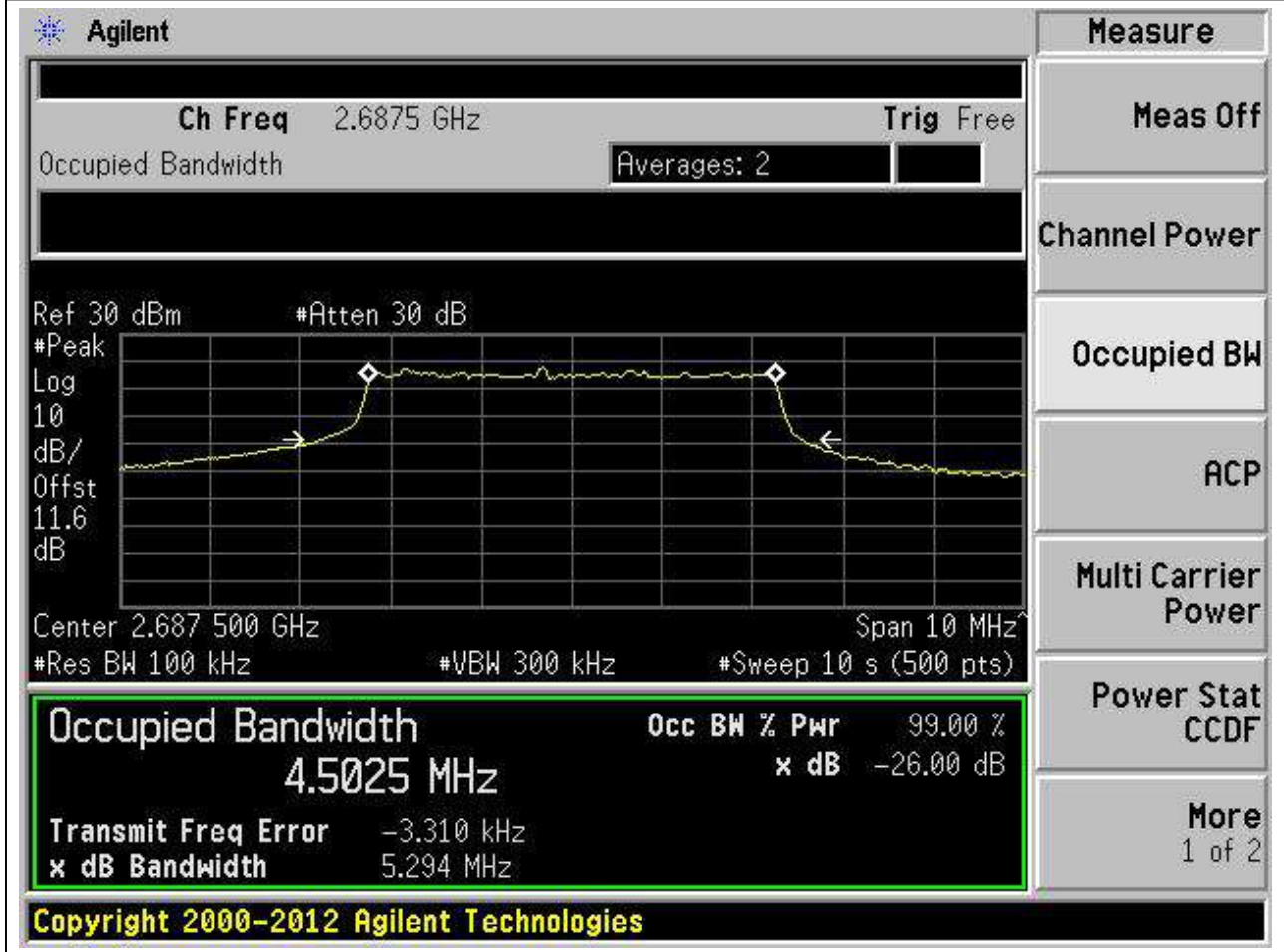
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.1	Peak	4.491	5.057	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.593 GHz, and the span is 10 MHz. The occupied bandwidth is highlighted as 4.4912 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -6.454 kHz. The XdB bandwidth is 5.057 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 %
4.4912 MHz	x dB	-26.00 dB
Transmit Freq Error	-6.454 kHz	
x dB Bandwidth	5.057 MHz	

**18.5. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:5, Channel:41565, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2687.5	99	26	0.1	Peak	4.503	5.294	5	Pass



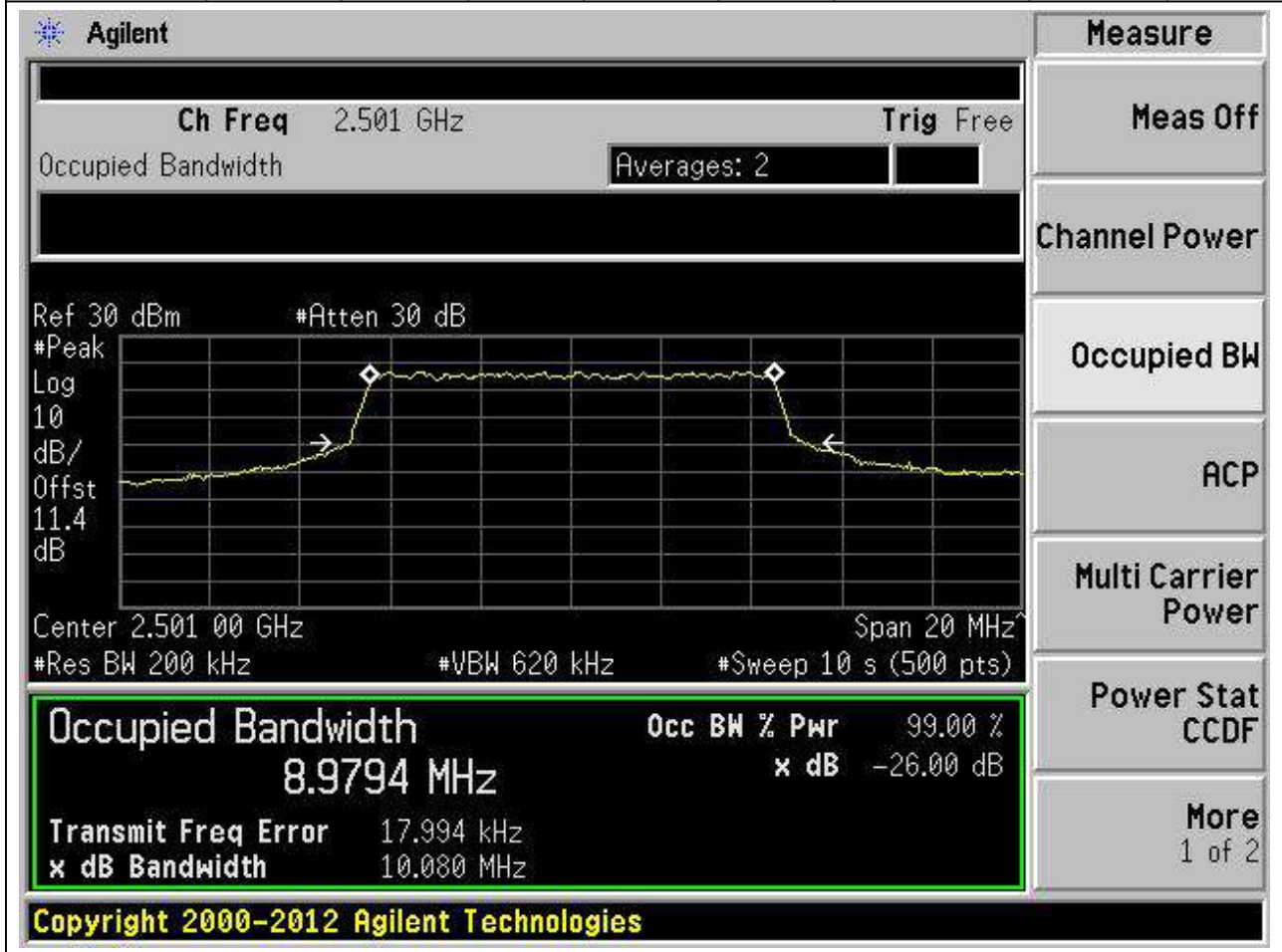
**18.6. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:6, Channel:41565, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2687.5	99	26	0.1	Peak	4.499	5.036	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a peak at 2.6875 GHz. The 'Occupied Bandwidth' measurement is highlighted in a green box, showing a value of 4.4992 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -1.200 kHz and the 'x dB Bandwidth' is 5.036 MHz. The interface also shows various settings like 'Ch Freq', 'Trig Free', 'Averages: 2', 'Ref 30 dBm', '#Atten 30 dB', 'Center 2.687 500 GHz', 'Span 10 MHz', '#Res BW 100 kHz', '#VBW 300 kHz', and '#Sweep 10 s (500 pts)'. A '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 footer of the screenshot reads 'Copyright 2000-2012 Agilent Technologies'.

**18.7. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:7, Channel:39700, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2501	99	26	0.2	Peak	8.979	10.08	10	Pass



**18.8. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:8, Channel:39700, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2501	99	26	0.2	Peak	8.994	9.919	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.501 GHz, and the span is 20 MHz. The occupied bandwidth is highlighted in a green box at the bottom of the screen.

**Occupied Bandwidth Measurement Results:**

Occupied Bandwidth	Occ BW % Pwr
8.9942 MHz	99.00 %
x dB Bandwidth	-26.00 dB

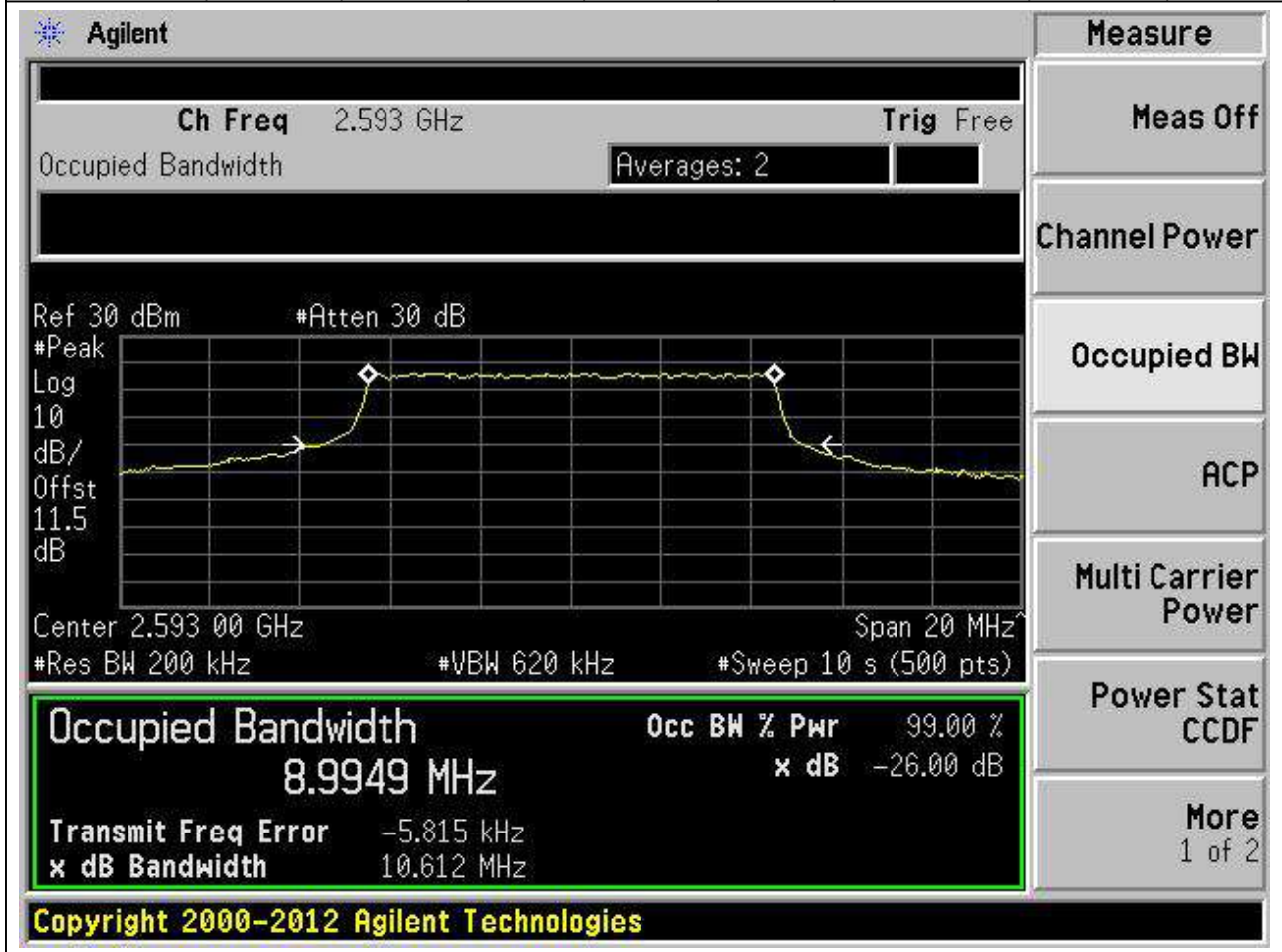
Other parameters shown in the screenshot include: Ch Freq 2.501 GHz, Trig Free, Averages: 2, Ref 30 dBm, #Atten 30 dB, #Peak, Log, 10 dB/Offst, 11.4 dB, Center 2.501 00 GHz, Span 20 MHz, #Res BW 200 kHz, #VBW 620 kHz, #Sweep 10 s (500 pts), Transmit Freq Error 3.999 kHz, and x dB Bandwidth 9.919 MHz.

Copyright 2000-2012 Agilent Technologies



**18.9. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:9, Channel:40620, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.2	Peak	8.995	10.612	10	Pass



**18.10. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:10, Channel:40620, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.2	Peak	8.946	9.752	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.593 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is set to 'Log' scale with 'dB/Offst 11.5 dB'. The center frequency is 2.593 00 GHz and the span is 20 MHz. The resolution bandwidth (Res BW) is 200 kHz, the video bandwidth (VBW) is 620 kHz, and the sweep time is 10 s (500 pts). The plot shows a signal with a peak at approximately 2.593 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 8.9457 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -4.474 kHz and the 'x dB Bandwidth' is 9.752 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 displays the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

**18.11. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:11, Channel:41540, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2685	99	26	0.2	Peak	9.002	10.159	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.685 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', and '11.6 dB'. The plot shows a signal with a peak at approximately 2.685 GHz. Below the plot, the following parameters are displayed: 'Center 2.685 00 GHz', 'Span 20 MHz', '#Res BW 200 kHz', '#VBW 620 kHz', and '#Sweep 10 s (500 pts)'. A green box highlights the 'Occupied Bandwidth' measurement results: 'Occupied Bandwidth 9.0024 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Other parameters shown include 'Transmit Freq Error -7.961 kHz' and 'x dB Bandwidth 10.159 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'. At the bottom, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.

**18.12. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:12, Channel:41540, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2685	99	26	0.2	Peak	8.973	9.922	10	Pass

Agilent
Measure

Ch Freq 2.685 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

Center 2.685 00 GHz Span 20 MHz

#Res BW 200 kHz #VBW 620 kHz #Sweep 10 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
8.9732 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b>	-7.171 kHz
<b>x dB Bandwidth</b>	9.922 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

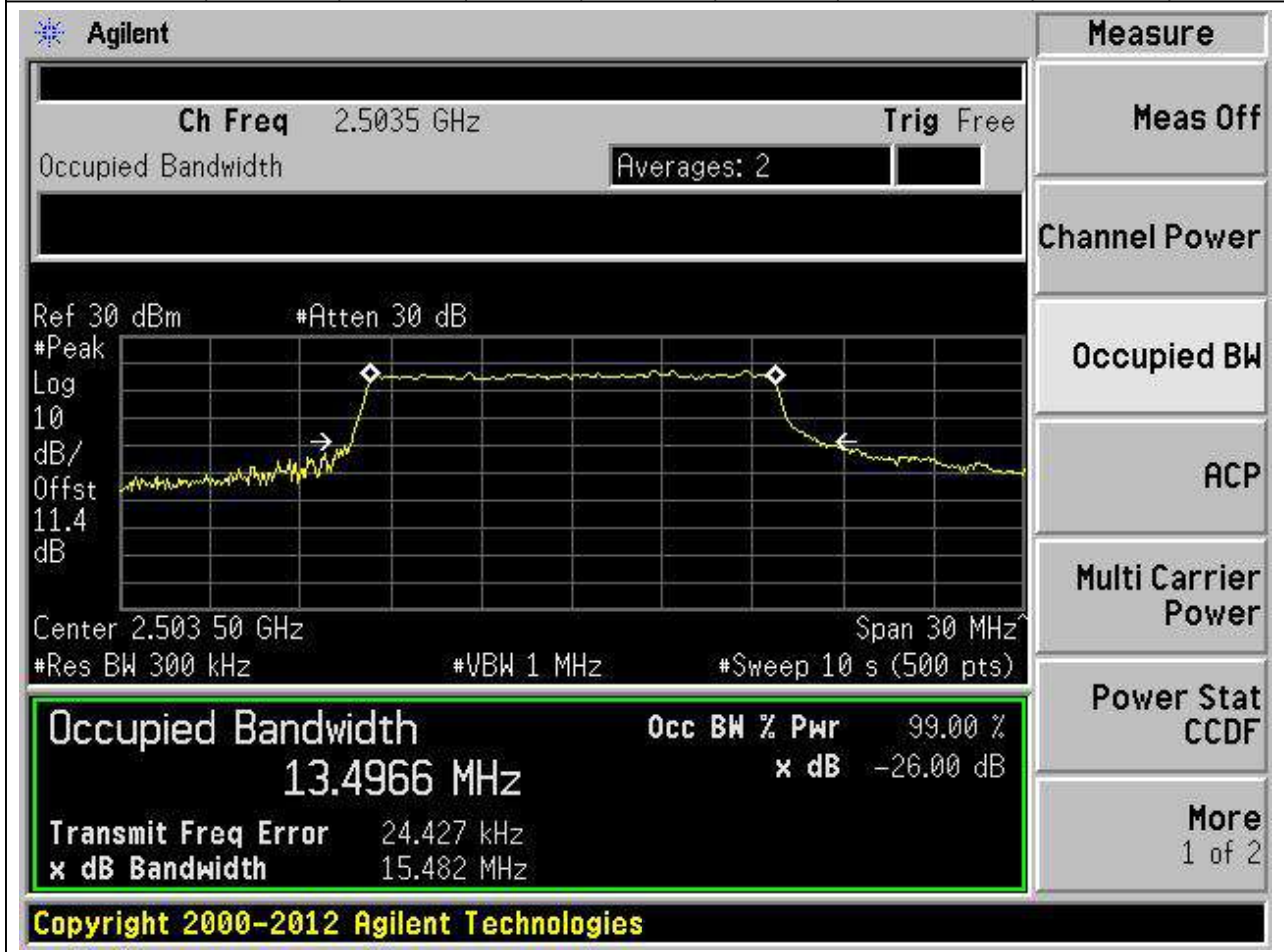
Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**18.13. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:13, Channel:39725, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2503.5	99	26	0.3	Peak	13.497	15.482	15	Pass





**18.14. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:14, Channel:39725, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2503.5	99	26	0.3	Peak	13.49	15.832	15	Pass

Agilent
Measure

Ch Freq 2.5035 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 11.4 dB

Center 2.503 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 10 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
13.4901 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> -3.684 kHz	
<b>x dB Bandwidth</b> 15.832 MHz	

Power Stat CCDF

More 1 of 2

Meas Off

Channel Power

Occupied BW

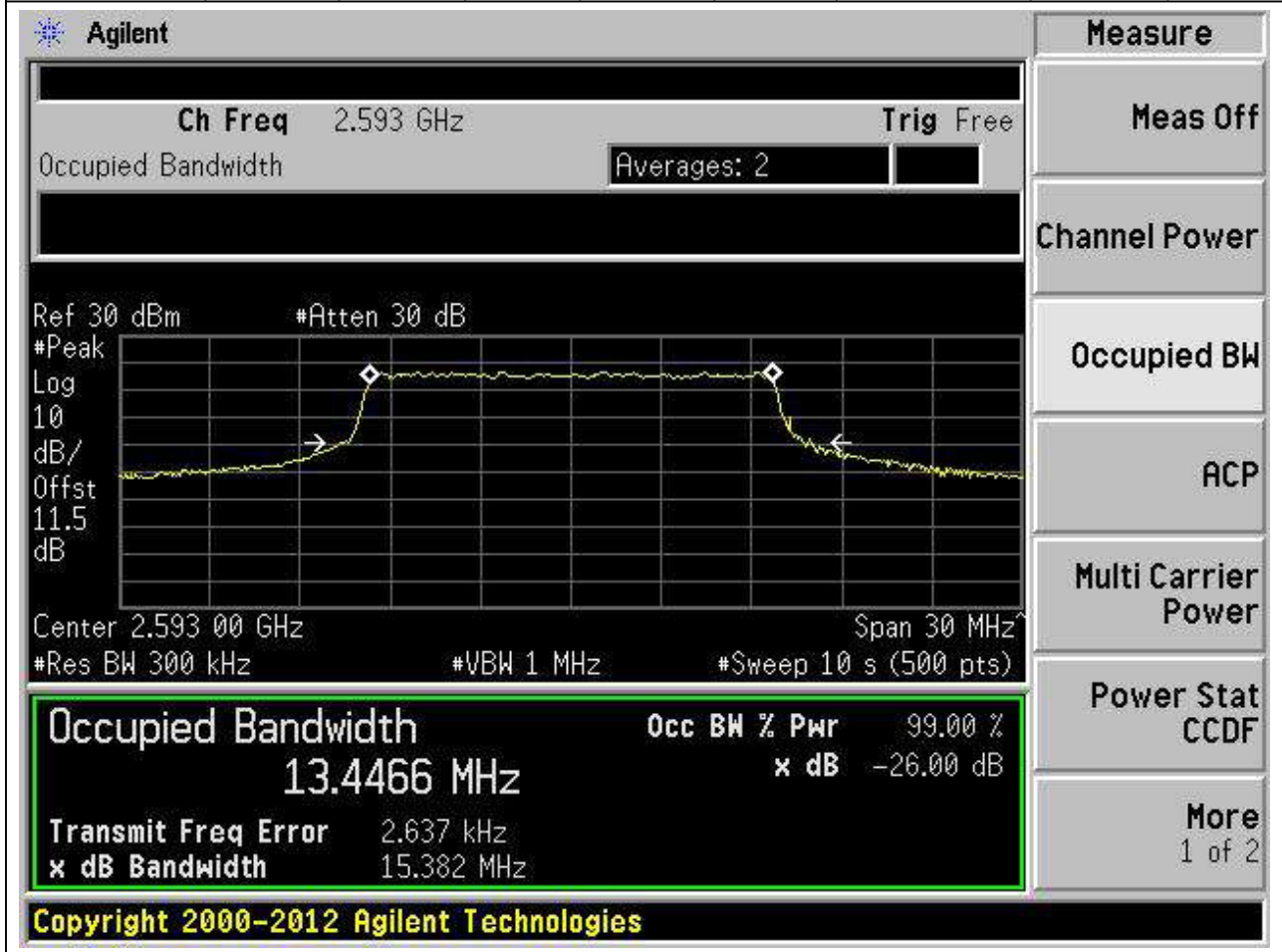
ACP

Multi Carrier Power

Copyright 2000-2012 Agilent Technologies

**18.15. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:15, Channel:40620, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.3	Peak	13.447	15.382	15	Pass



**18.16. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:16, Channel:40620, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.3	Peak	13.522	15.149	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 2.593 GHz, and the span is 30 MHz. The occupied bandwidth is highlighted in a green box at the bottom of the screen.

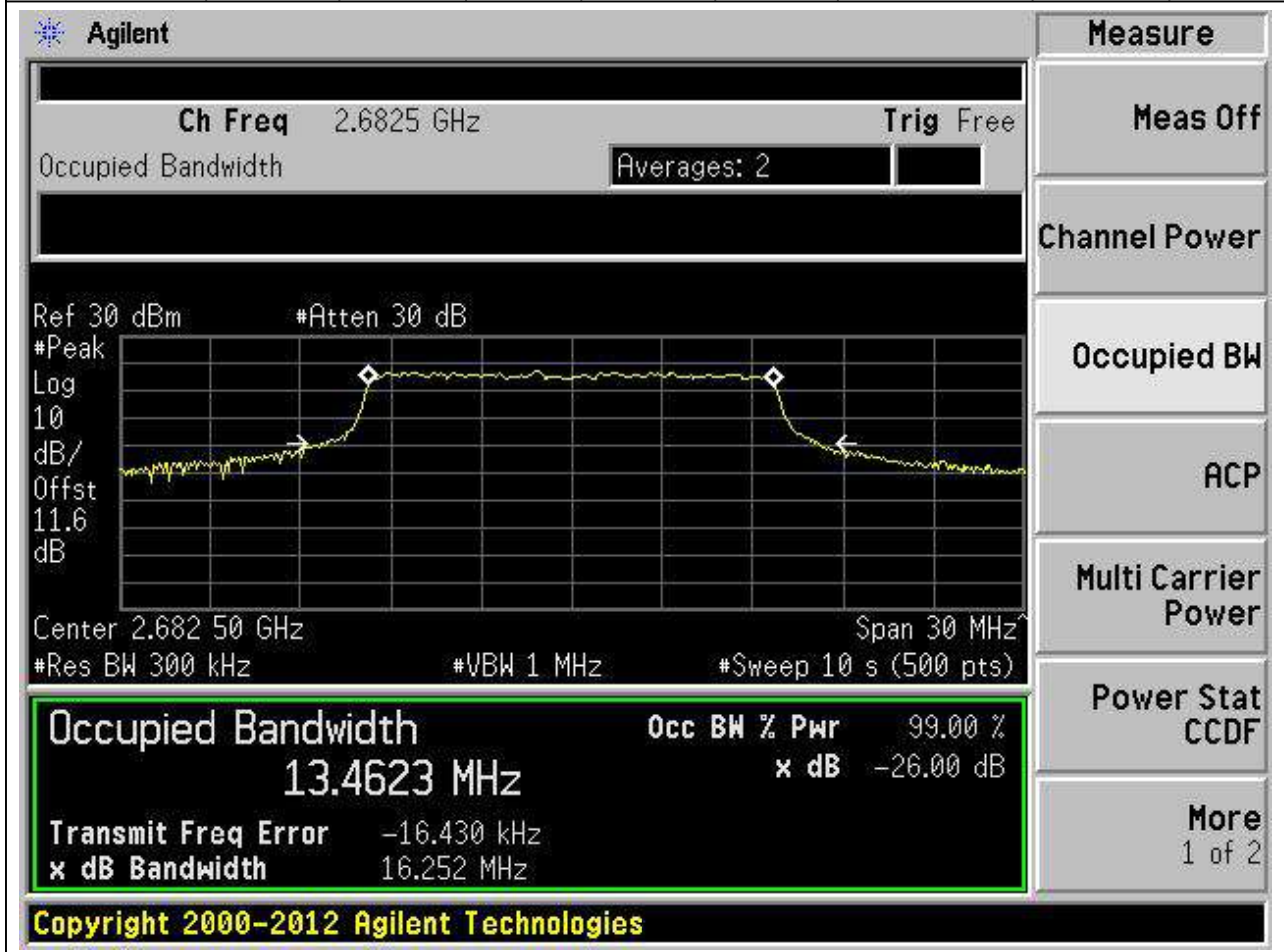
**Occupied Bandwidth Measurement Results:**

Occupied Bandwidth	13.5216 MHz	Occ BW % Pwr	99.00 %
		x dB	-26.00 dB
Transmit Freq Error	10.809 kHz		
x dB Bandwidth	15.149 MHz		

Copyright 2000-2012 Agilent Technologies

**18.17. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:17, Channel:41515, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2682.5	99	26	0.3	Peak	13.462	16.252	15	Pass



**18.18. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:18, Channel:41515, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2682.5	99	26	0.3	Peak	13.506	15.321	15	Pass

Agilent
Measure

Ch Freq 2.6825 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 11.6 dB

Center 2.682 50 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz #Sweep 10 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
<b>13.5061 MHz</b>	<b>x dB</b> -26.00 dB
<b>Transmit Freq Error</b> -18.019 kHz	
<b>x dB Bandwidth</b> 15.321 MHz	

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2



**18.19. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:19, Channel:39750, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2506	99	26	0.39	Peak	17.962	19.37	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.506 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', and '11.4 dB'. The plot shows a signal with a peak at approximately 2.506 GHz. Below the plot, the following parameters are displayed: 'Center 2.506 00 GHz', 'Span 40 MHz', '#Res BW 390 kHz', '#VBW 1.2 MHz', and '#Sweep 10 s (512 pts)'. A green box highlights the 'Occupied Bandwidth' measurement results: 'Occupied Bandwidth 17.9619 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Other parameters shown include 'Transmit Freq Error -415.346 Hz' and 'x dB Bandwidth 19.370 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'. At the bottom, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.

**18.20. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:20, Channel:39750, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2506	99	26	0.39	Peak	17.92	20.079	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.506 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is set to 'Log' scale with 'dB/Offst 11.4 dB'. The center frequency is 2.506 00 GHz and the span is 40 MHz. The resolution bandwidth (Res BW) is 390 kHz, the video bandwidth (VBW) is 1.2 MHz, and the sweep time is 10 s (512 pts). The plot shows a signal with a peak at approximately 2.506 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 17.9202 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters shown include 'Transmit Freq Error -9.373 kHz' and 'x dB Bandwidth 20.079 MHz'. The bottom of the screen shows the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

**18.21. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:21, Channel:40620, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.39	Peak	17.933	20.522	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.593 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', and '11.5 dB'. The plot shows a signal with a peak at approximately 2.593 GHz. Below the plot, the following parameters are displayed: 'Center 2.593 00 GHz', 'Span 40 MHz', '#Res BW 390 kHz', '#VBW 1.2 MHz', and '#Sweep 10 s (512 pts)'. A green box highlights the 'Occupied Bandwidth' measurement results: 'Occupied Bandwidth 17.9330 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Other parameters shown include 'Transmit Freq Error 8.280 kHz' and 'x dB Bandwidth 20.522 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'. At the bottom, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.

**18.22. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:22, Channel:40620, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2593	99	26	0.39	Peak	17.989	21.69	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.593 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 resolution bandwidth of 390 kHz and a video bandwidth of 1.2 MHz. The center frequency is 2.593 00 GHz and the span is 40 MHz. The plot shows a signal with a peak at approximately -26.00 dB. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 17.9885 MHz. Other parameters shown include 'Transmit Freq Error -24.559 kHz' and 'x dB Bandwidth 21.690 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'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
17.9885 MHz	x dB	-26.00 dB
Transmit Freq Error		-24.559 kHz
x dB Bandwidth		21.690 MHz

**18.23. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:23, Channel:41490, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

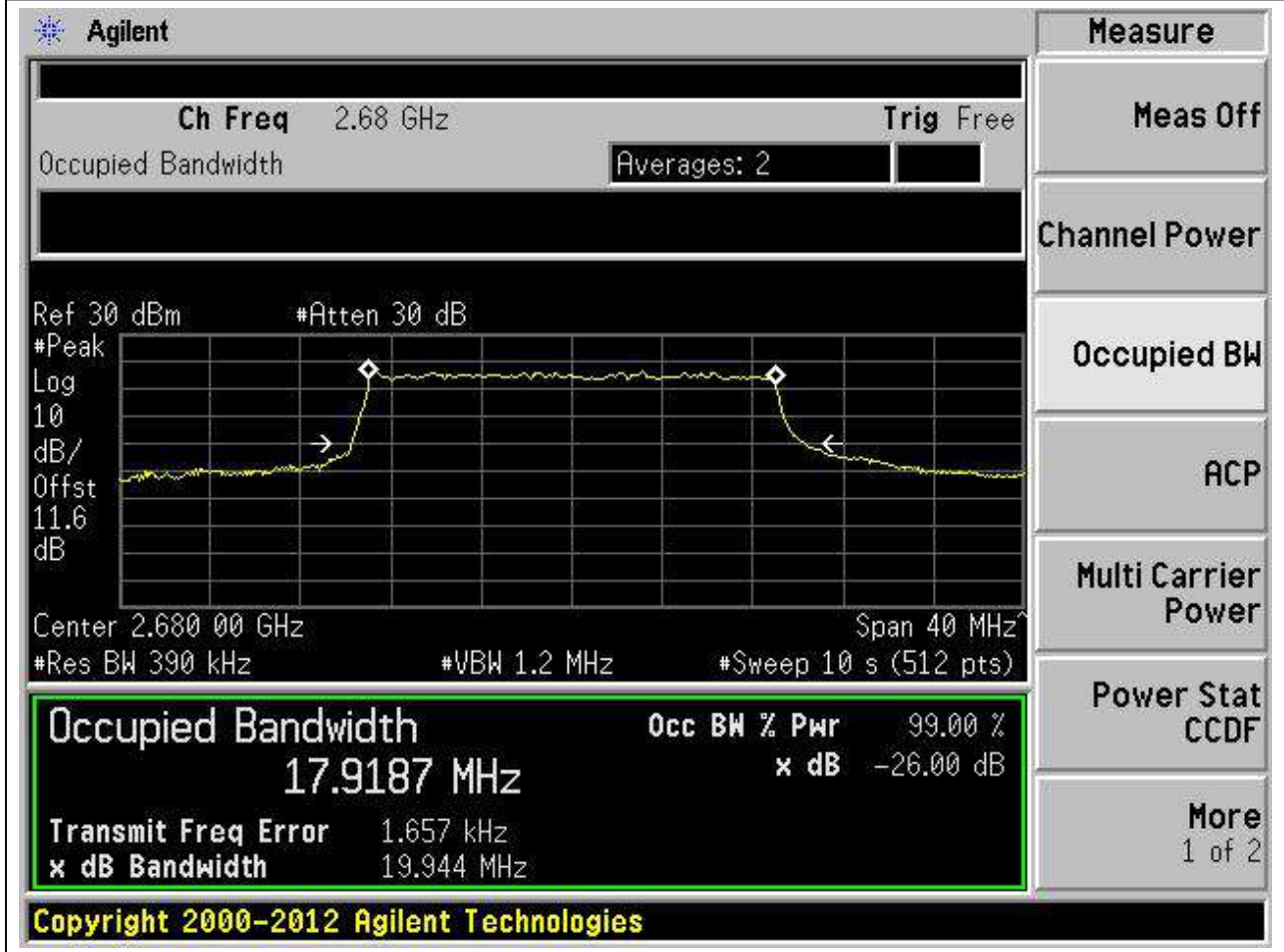
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2680	99	26	0.39	Peak	17.942	19.931	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 2.68 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is set to 'Log' scale with 'dB/Offst 11.6 dB'. The center frequency is 2.68000 GHz and the span is 40 MHz. The resolution bandwidth (Res BW) is 390 kHz, the video bandwidth (VBW) is 1.2 MHz, and the sweep time is 10 s (512 pts). The plot shows a signal with a peak at approximately 2.68 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 17.9424 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters shown include 'Transmit Freq Error -33.379 kHz' and 'x dB Bandwidth 19.931 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 displays the copyright notice 'Copyright 2000-2012 Agilent Technologies'.



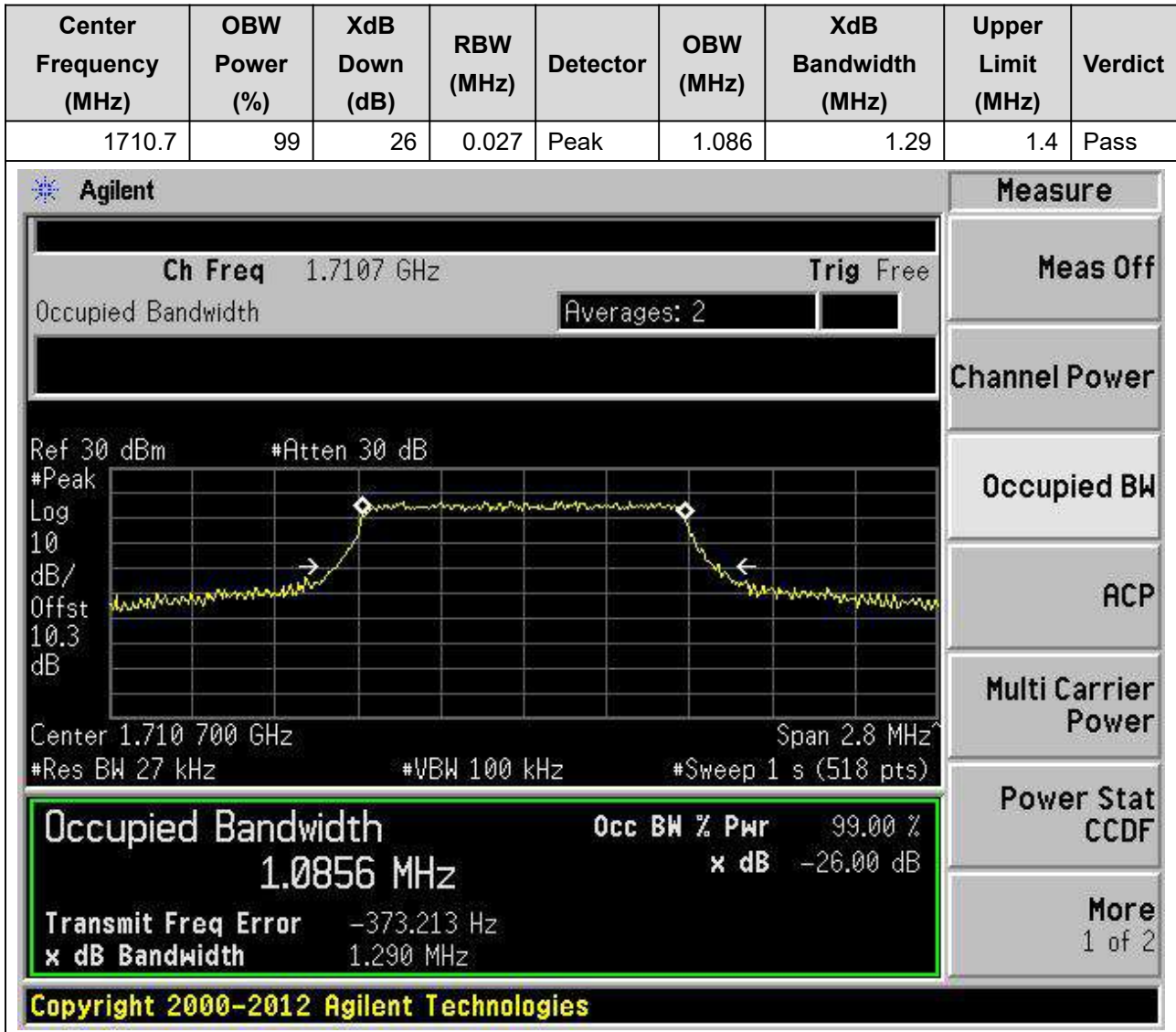
**18.24. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:24, Channel:41490, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2680	99	26	0.39	Peak	17.919	19.944	20	Pass



## 19. LTE\_Band66

### 19.1. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:1, Channel:131979, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



**19.2. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:2, Channel:131979, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1710.7	99	26	0.027	Peak	1.094	1.3	1.4	Pass

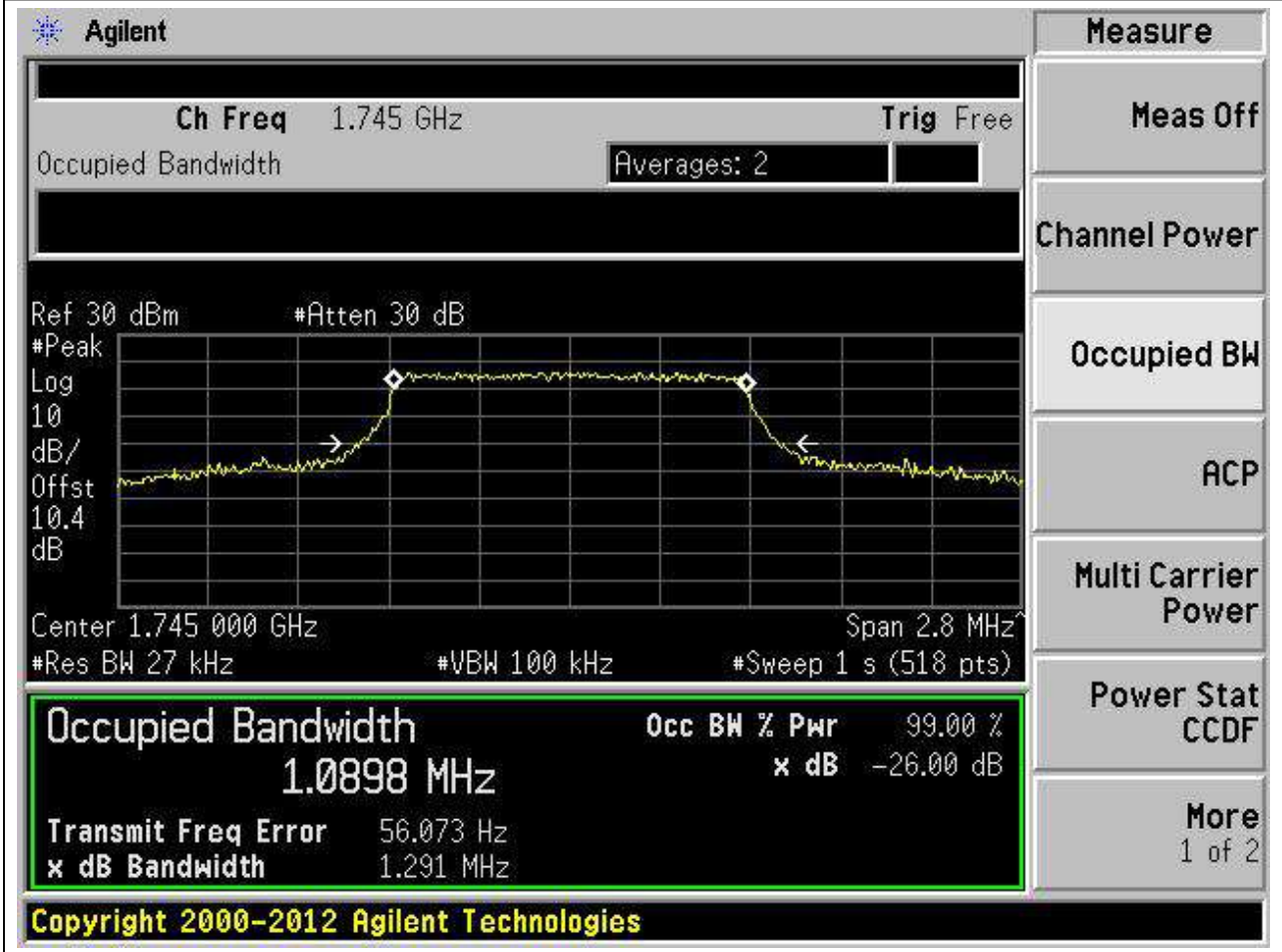
The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The plot is centered at 1.7107 GHz with a span of 2.8 MHz. The y-axis is labeled 'Log 10 dB/Offst 10.3 dB'. The plot shows a signal with a peak at approximately 1.7107 GHz. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 1.0944 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters shown include 'Transmit Freq Error' of -3.439 kHz and 'x dB Bandwidth' of 1.300 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'.

Occupied Bandwidth	Occ BW % Pwr	x dB
1.0944 MHz	99.00 %	-26.00 dB

Copyright 2000-2012 Agilent Technologies

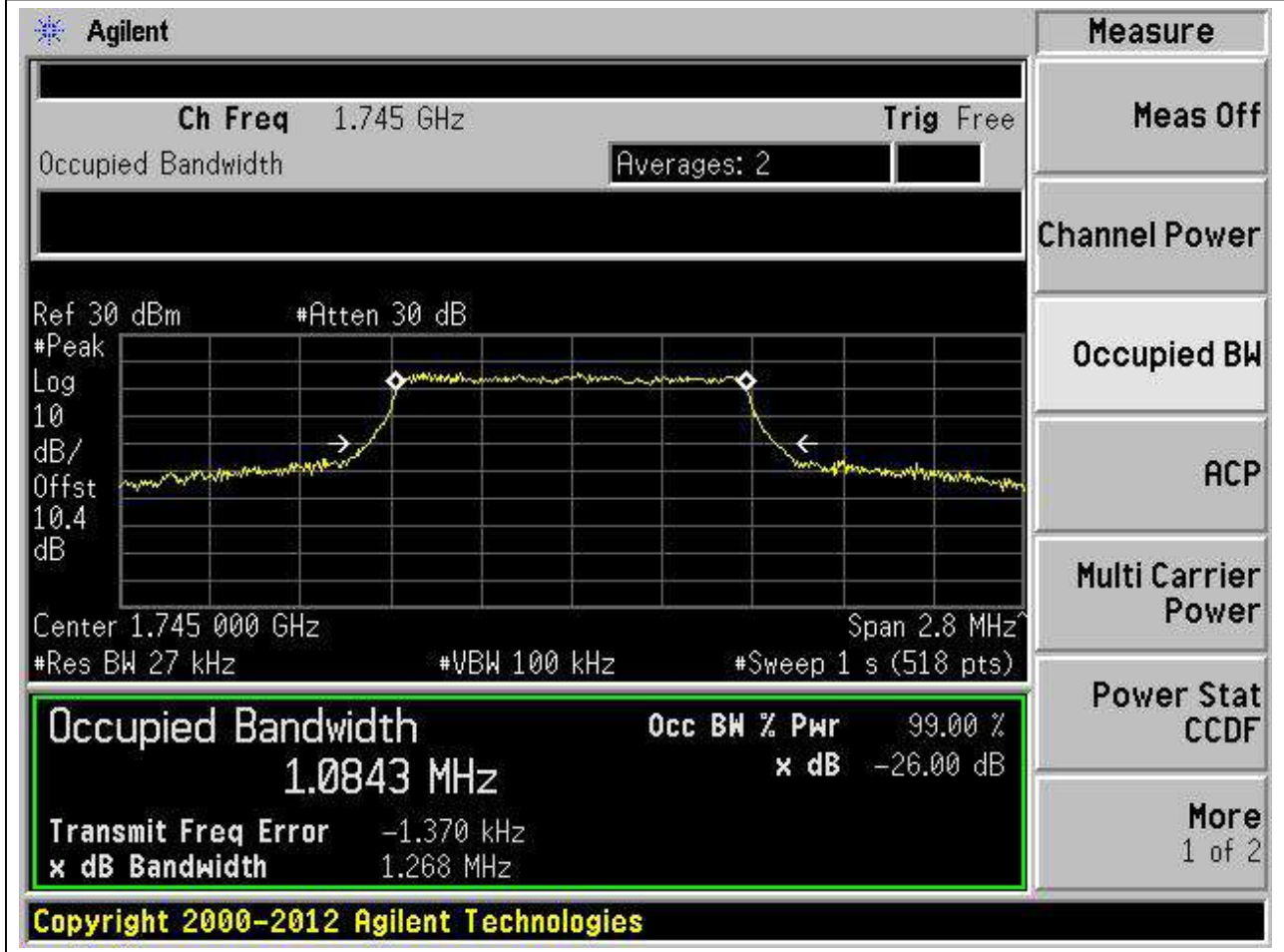
**19.3. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:3, Channel:132322, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.027	Peak	1.09	1.291	1.4	Pass



**19.4. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:4, Channel:132322, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

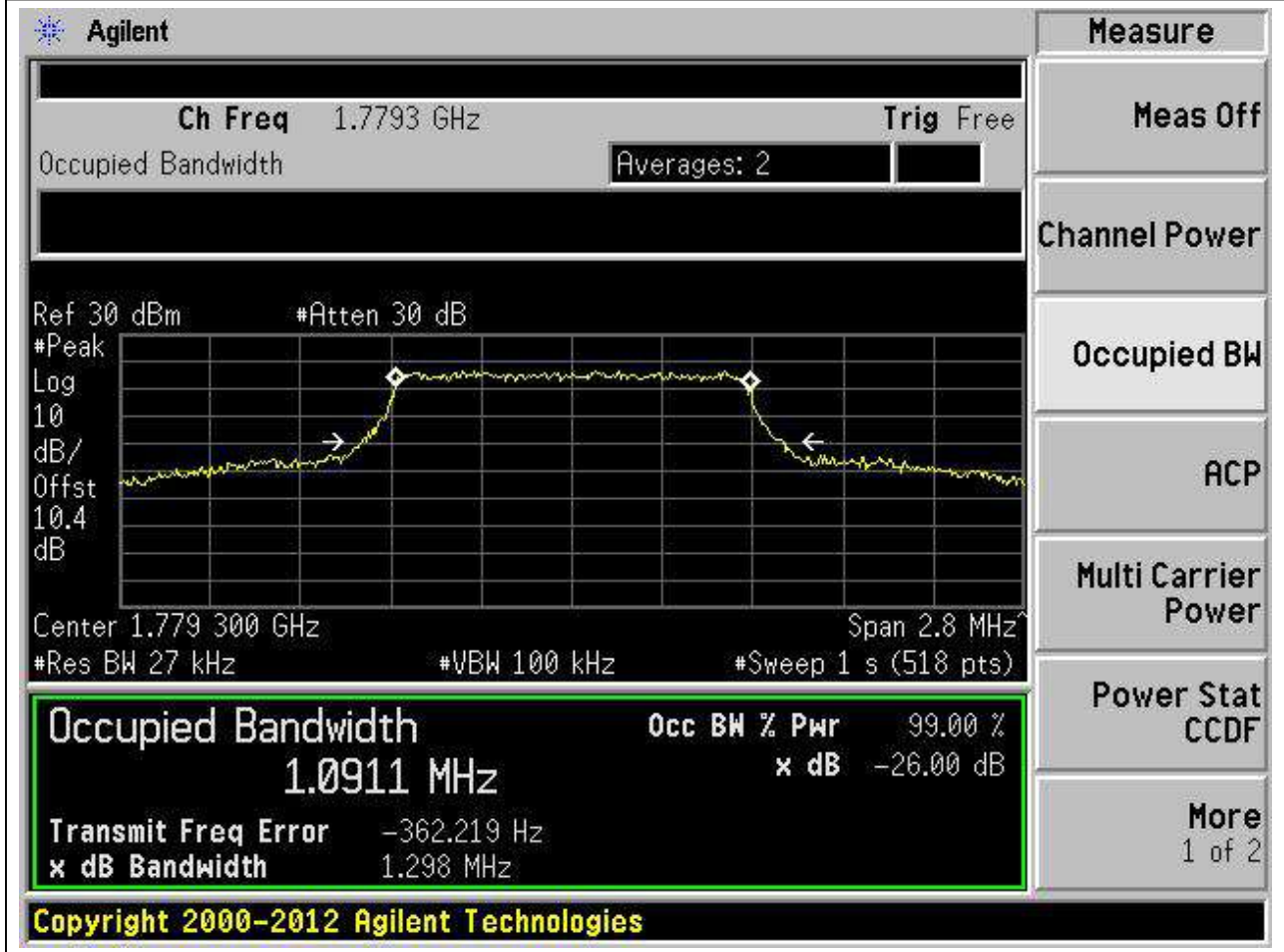
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.027	Peak	1.084	1.268	1.4	Pass





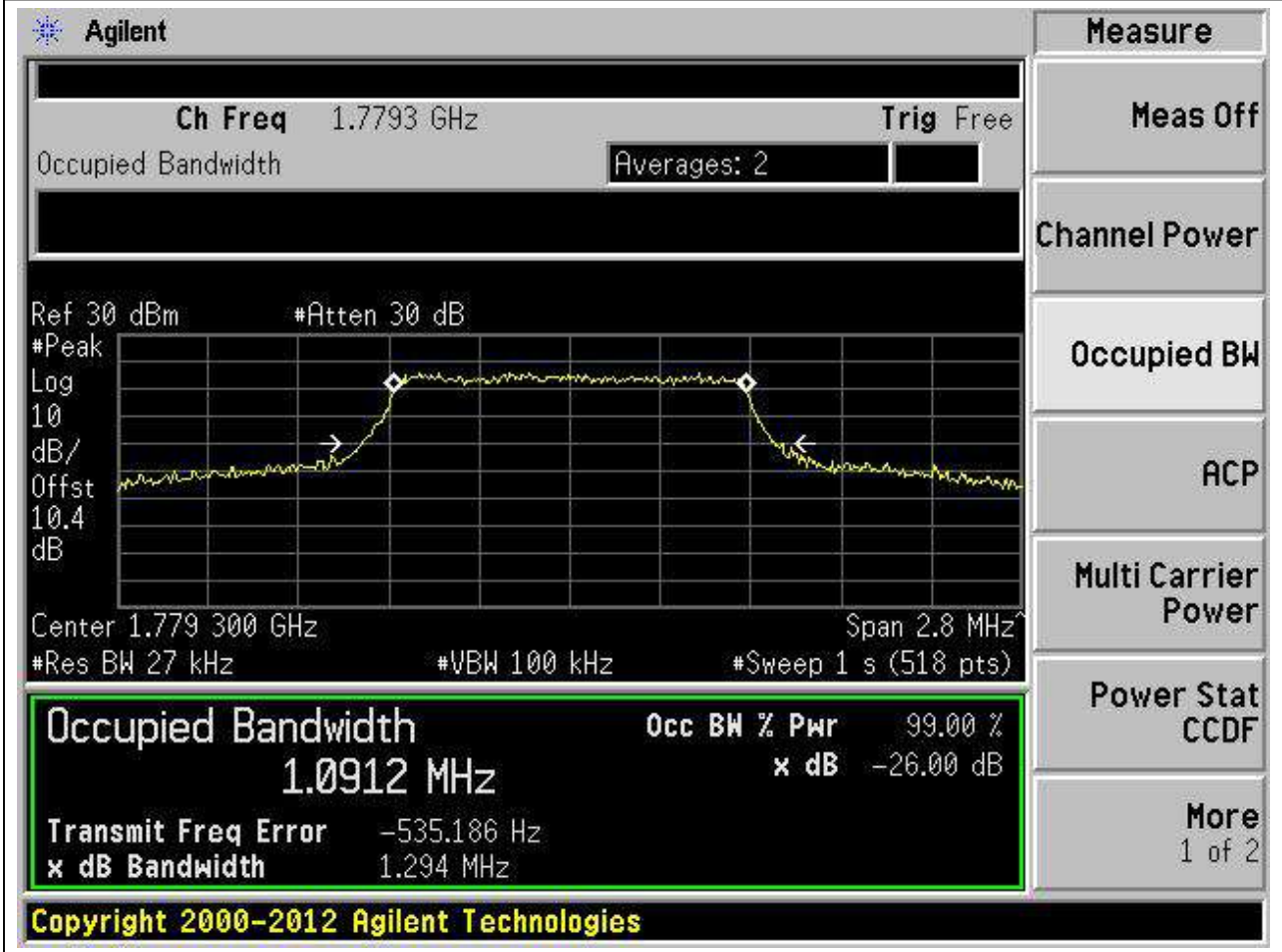
**19.5. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:5, Channel:132665, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1779.3	99	26	0.027	Peak	1.091	1.298	1.4	Pass



**19.6. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:6, Channel:132665, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1779.3	99	26	0.027	Peak	1.091	1.294	1.4	Pass



**19.7. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:7, Channel:131987, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1711.5	99	26	0.062	Peak	2.691	2.925	3	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	2.6913 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	1.260 kHz
x dB Bandwidth	2.925 MHz

Additional parameters shown in the interface include: Ch Freq 1.7115 GHz, Trig Free, Averages: 2, Ref 30 dBm, #Atten 30 dB, #Peak, Log, 10 dB/Offst, 10.3 dB, Center 1.711 500 GHz, Span 6 MHz, #Res BW 62 kHz, #VBW 200 kHz, #Sweep 1 s (483 pts).

Copyright 2000-2012 Agilent Technologies

**19.8. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:8, Channel:131987, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1711.5	99	26	0.062	Peak	2.686	2.949	3	Pass

Agilent
Measure

Ch Freq 1.7115 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.3 dB

Center 1.711 500 GHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)

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

**2.6863 MHz** x dB -26.00 dB

Transmit Freq Error 826.564 Hz

x dB Bandwidth 2.949 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**19.9. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:9, Channel:132322, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.062	Peak	2.692	2.943	3	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 1.745 GHz, and the span is 6 MHz. The occupied bandwidth is highlighted as 2.6924 MHz. The power level is 99.00% and the XdB bandwidth 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	2.6924 MHz
Occ BW % Pwr	99.00 %
x dB Bandwidth	-26.00 dB
Transmit Freq Error	-1.909 kHz
x dB Bandwidth	2.943 MHz

**Copyright 2000-2012 Agilent Technologies**



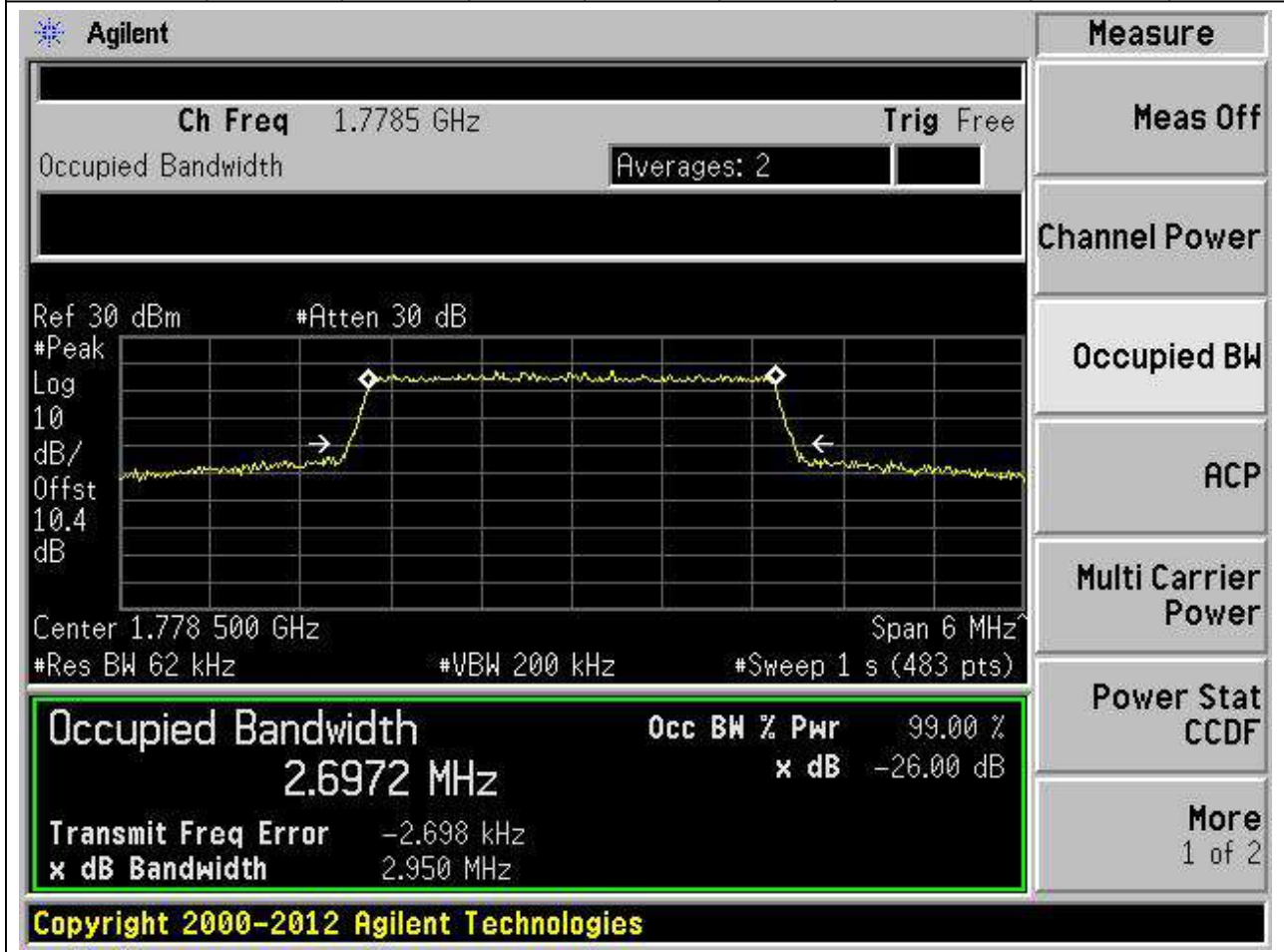
**19.10. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:10, Channel:132322, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.062	Peak	2.694	2.949	3	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.745 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', and '10.4 dB'. The plot shows a signal with a peak at approximately 1.745 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 2.6935 MHz. Other parameters shown include 'Center 1.745 000 GHz', 'Span 6 MHz', '#Res BW 62 kHz', '#VBW 200 kHz', and '#Sweep 1 s (483 pts)'. The 'Occupied Bandwidth' section also displays 'Occ BW % Pwr 99.00 %' and 'x dB -26.00 dB'. Below this, it shows 'Transmit Freq Error -5.010 kHz' and 'x dB Bandwidth 2.949 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 displays 'Copyright 2000-2012 Agilent Technologies'.

**19.11. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:11, Channel:132657, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1778.5	99	26	0.062	Peak	2.697	2.95	3	Pass



**19.12. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:12, Channel:132657, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1778.5	99	26	0.062	Peak	2.688	2.948	3	Pass

Agilent
Measure

Ch Freq 1.7785 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.4 dB

Center 1.778 500 GHz Span 6 MHz

#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)

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

**2.6885 MHz** x dB -26.00 dB

Transmit Freq Error -4.170 kHz

x dB Bandwidth 2.948 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

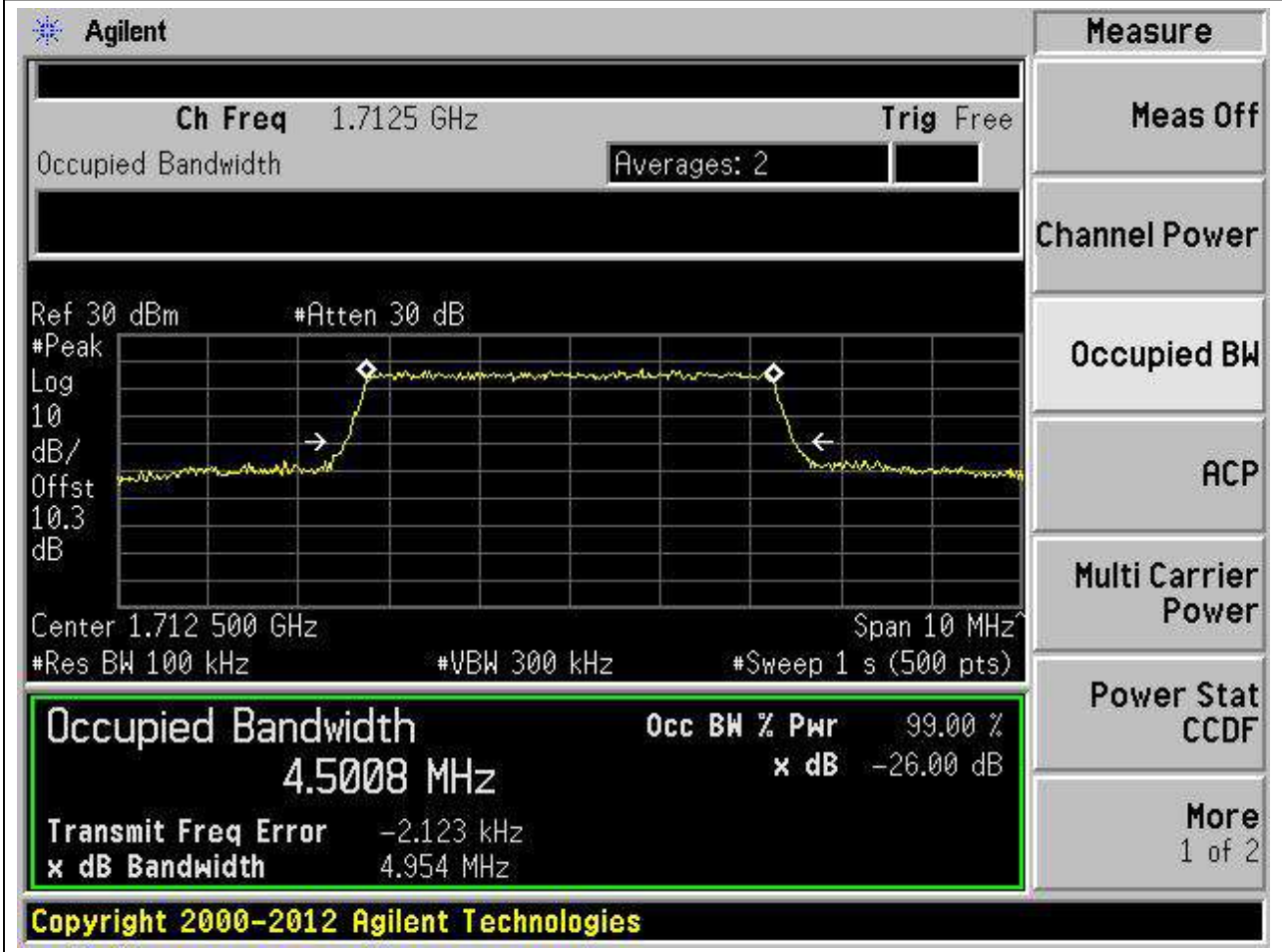
Multi Carrier Power

Power Stat CCDF

More 1 of 2

**19.13. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:13, Channel:131997, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1712.5	99	26	0.1	Peak	4.501	4.954	5	Pass



**19.14. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:14, Channel:131997, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1712.5	99	26	0.1	Peak	4.488	4.922	5	Pass

Agilent
Measure

Ch Freq 1.7125 GHz
Trig Free

Occupied Bandwidth
Averages: 2

Ref 30 dBm
#Atten 30 dB

#Peak
Log

10
dB/

Offst
10.3

dB

Center 1.712 500 GHz
Span 10 MHz

#Res BW 100 kHz
#VBW 300 kHz
#Sweep 1 s (500 pts)

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

**4.4876 MHz**
x dB -26.00 dB

Transmit Freq Error 1.328 kHz

x dB Bandwidth 4.922 MHz

Power Stat CCDF

More 1 of 2

**Copyright 2000-2012 Agilent Technologies**



**19.15. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:15, Channel:132322, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.1	Peak	4.497	4.967	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.745 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 resolution of 10 dB/div and an offset of 10.4 dB. The center frequency is 1.745 000 GHz, and the span is 10 MHz. The resolution bandwidth (Res BW) is 100 kHz, the video bandwidth (VBW) is 300 kHz, and the sweep time is 1 s (500 pts). The plot shows a signal with a peak at approximately 1.745 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 4.4974 MHz. The 'Occ BW % Pwr' is 99.00%, and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is -9.295 kHz, and the 'x dB Bandwidth' is 4.967 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 displays the copyright notice 'Copyright 2000-2012 Agilent Technologies'.

**19.16. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:16, Channel:132322, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.1	Peak	4.494	4.957	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.745 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', and '10.4 dB'. The plot shows a signal with a peak at approximately 1.745 GHz. Below the plot, the following parameters are displayed: 'Center 1.745 000 GHz', 'Span 10 MHz', '#Res BW 100 kHz', '#VBW 300 kHz', and '#Sweep 1 s (500 pts)'. A green box highlights the 'Occupied Bandwidth' measurement results: 'Occupied Bandwidth 4.4941 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Other parameters shown include 'Transmit Freq Error -6.056 kHz' and 'x dB Bandwidth 4.957 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'. At the bottom, the copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible.

**19.17. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:17, Channel:132647, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1777.5	99	26	0.1	Peak	4.491	4.933	5	Pass

Agilent
Measure

Ch Freq 1.7775 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 10.4 dB

Center 1.777 500 GHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
4.4911 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> 894.841 Hz	
<b>x dB Bandwidth</b> 4.933 MHz	

Power Stat CCDF

More 1 of 2

Copyright 2000-2012 Agilent Technologies

**19.18. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:18, Channel:132647, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1777.5	99	26	0.1	Peak	4.49	4.972	5	Pass

Agilent
Measure

Ch Freq 1.7775 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

Center 1.777 500 GHz Span 10 MHz

#Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (500 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b> 99.00 %
4.4905 MHz	x dB -26.00 dB
<b>Transmit Freq Error</b> -1.964 kHz	
<b>x dB Bandwidth</b> 4.972 MHz	

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

Copyright 2000-2012 Agilent Technologies

**19.19. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:19, Channel:132022, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1715	99	26	0.2	Peak	8.977	9.883	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.715 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 resolution bandwidth of 200 kHz and a video bandwidth of 620 kHz. The center frequency is 1.715 GHz and the span is 20 MHz. The plot shows a signal with a peak level of approximately -26 dB. The 'Occupied Bandwidth' is highlighted in a green box at the bottom of the screen, showing a value of 8.9767 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters shown include 'Transmit Freq Error 4.969 kHz' and 'x dB Bandwidth 9.883 MHz'. The interface also includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The copyright notice 'Copyright 2000-2012 Agilent Technologies' is visible at the bottom.



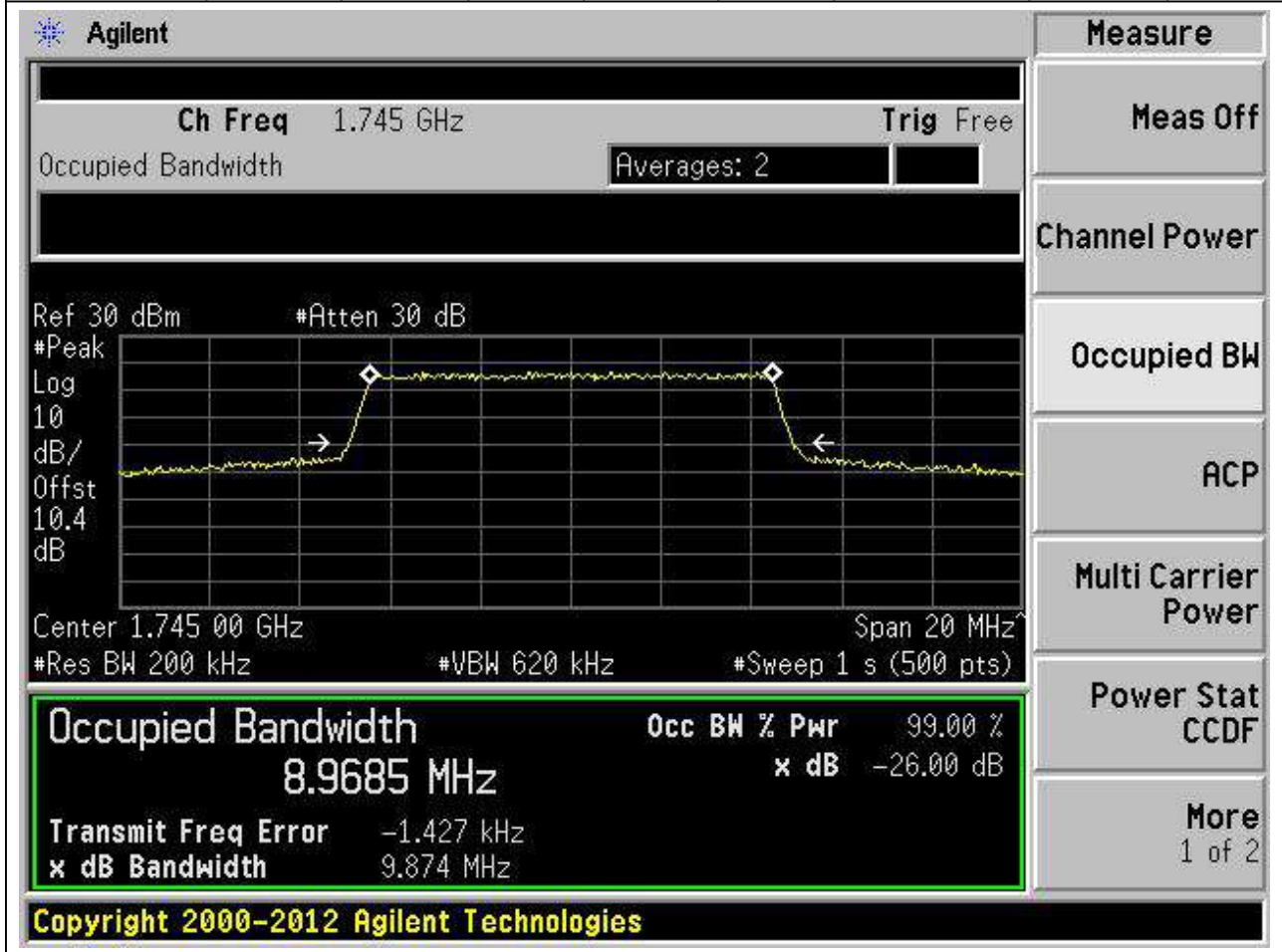
**19.20. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:20, Channel:132022, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1715	99	26	0.2	Peak	8.962	9.809	10	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.715 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 10.3 dB', 'Center 1.715 00 GHz', 'Span 20 MHz', '#Res BW 200 kHz', '#VBW 620 kHz', and '#Sweep 1 s (500 pts)'. A green box highlights the measurement results: 'Occupied Bandwidth 8.9623 MHz', 'Occ BW % Pwr 99.00 %', and 'x dB -26.00 dB'. Below this, it shows 'Transmit Freq Error 7.949 kHz' and 'x dB Bandwidth 9.809 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'. At the bottom, it says 'Copyright 2000-2012 Agilent Technologies'.

**19.21. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:21, Channel:132322, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.2	Peak	8.969	9.874	10	Pass



**19.22. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:22, Channel:132322, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.2	Peak	8.961	9.819	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 1.745 GHz, and the span is 20 MHz. The occupied bandwidth is highlighted as 8.9611 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	8.9611 MHz
Occ BW % Pwr	99.00 %
x dB	-26.00 dB
Transmit Freq Error	-3.211 kHz
x dB Bandwidth	9.819 MHz

**19.23. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:23, Channel:132622, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1775	99	26	0.2	Peak	8.978	9.861	10	Pass

Agilent
Measure

Ch Freq 1.775 GHz
Trig Free

Occupied Bandwidth
Averages: 2

Ref 30 dBm
#Atten 30 dB

#Peak
Log

10
dB/

Offst
10.4

dB

Center 1.775 00 GHz
Span 20 MHz

#Res BW 200 kHz
#VBW 620 kHz
#Sweep 1 s (500 pts)

**Occupied Bandwidth**

**8.9776 MHz**

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error -8.456 kHz

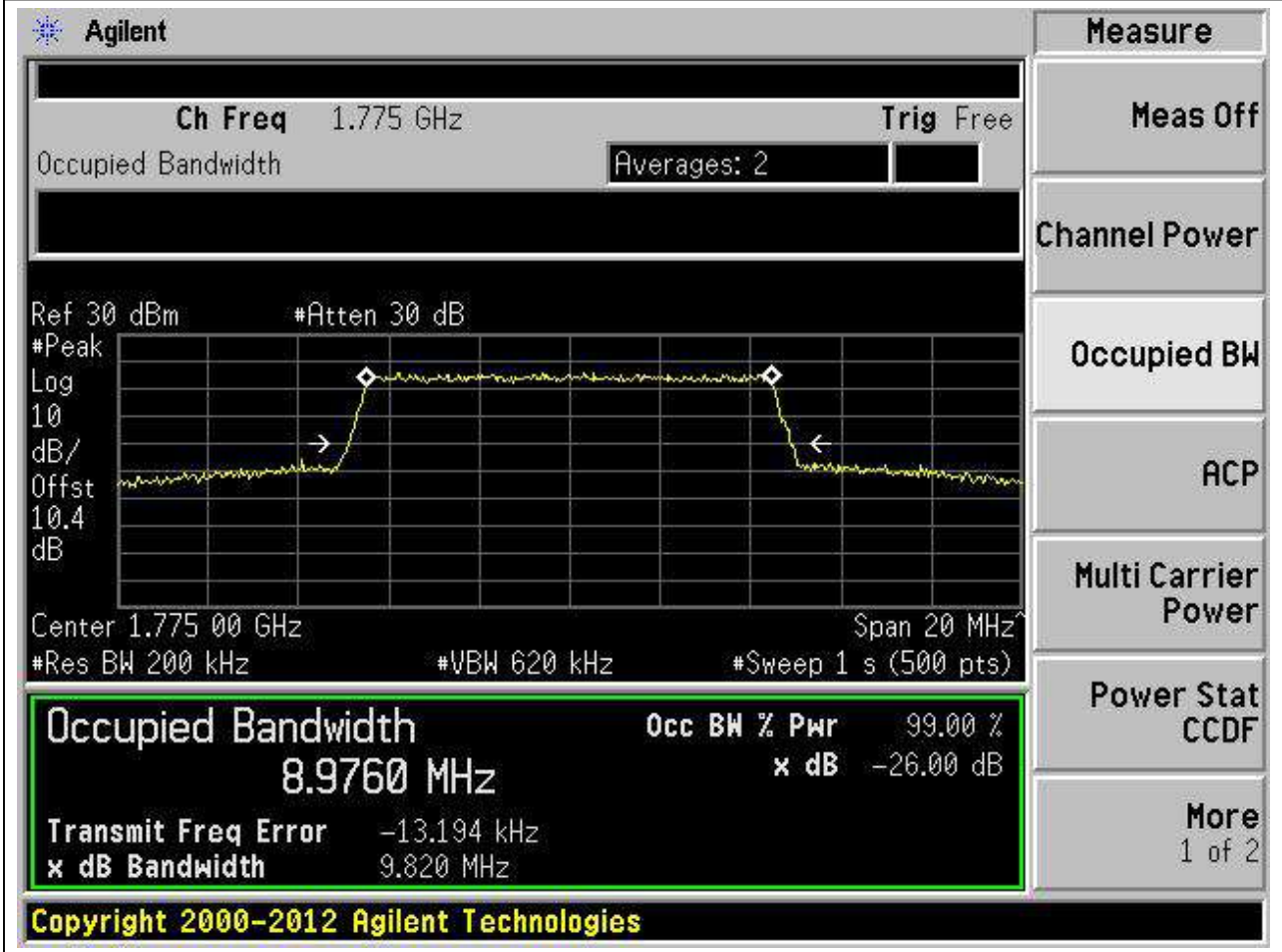
x dB Bandwidth 9.861 MHz

Power Stat CCDF
More 1 of 2

Copyright 2000-2012 Agilent Technologies

**19.24. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:24, Channel:132622, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1775	99	26	0.2	Peak	8.976	9.82	10	Pass





**19.25. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:25, Channel:132047, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1717.5	99	26	0.3	Peak	13.436	14.662	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.7175 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', '10.3 dB', 'Center 1.717 50 GHz', 'Span 30 MHz', '#Res BW 300 kHz', '#VBW 1 MHz', and '#Sweep 1 s (500 pts)'. A green box highlights the measurement results: 'Occupied Bandwidth 13.4359 MHz', 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error 4.090 kHz', and 'x dB Bandwidth 14.662 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'. At the bottom, it says 'Copyright 2000-2012 Agilent Technologies'.

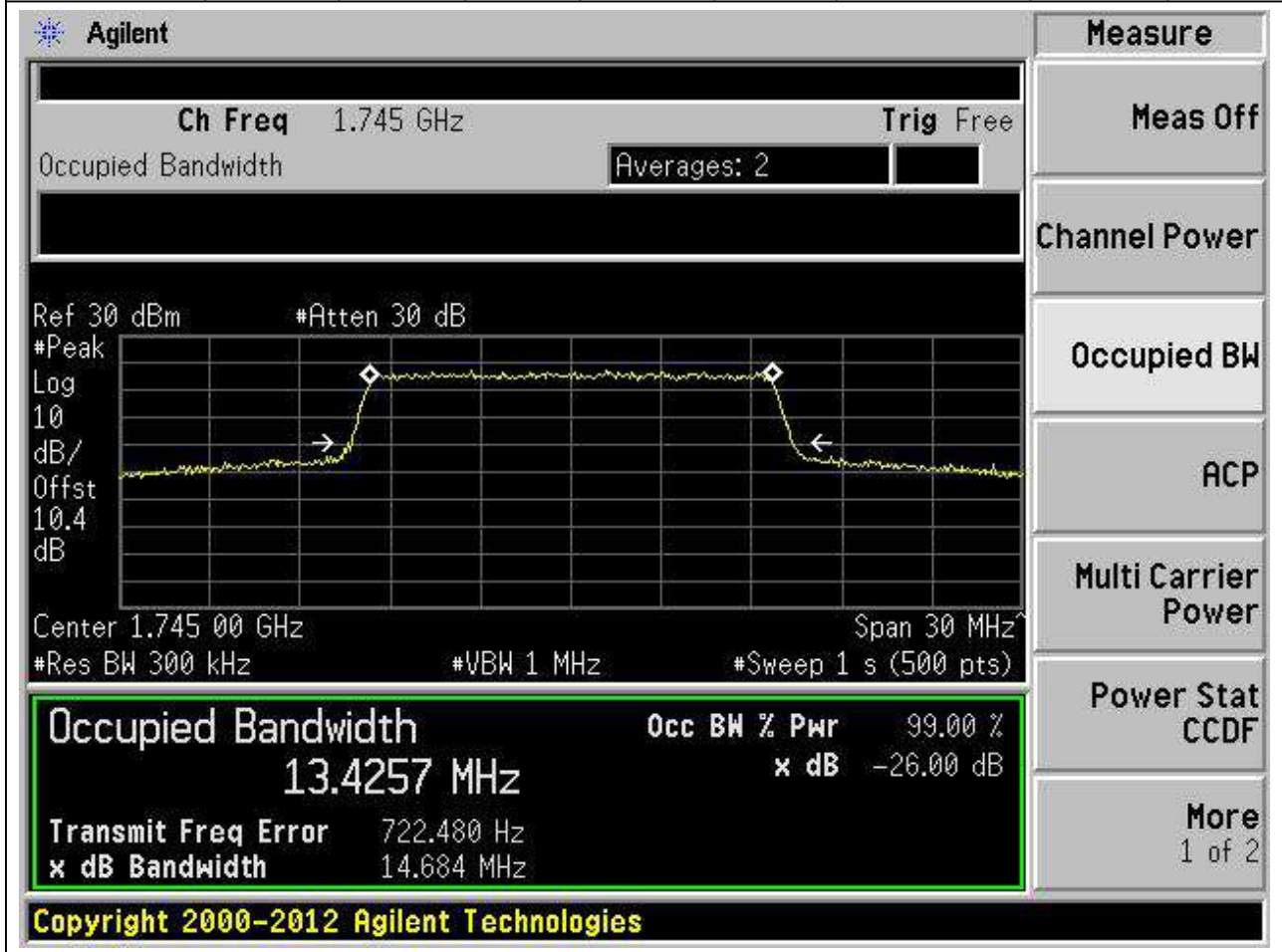
**19.26. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:26, Channel:132047, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1717.5	99	26	0.3	Peak	13.428	14.654	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.7175 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', '10.3 dB', 'Center 1.717 50 GHz', 'Span 30 MHz', '#Res BW 300 kHz', '#VBW 1 MHz', and '#Sweep 1 s (500 pts)'. A green box highlights the measurement results: 'Occupied Bandwidth 13.4284 MHz', 'Occ BW % Pwr 99.00 %', 'x dB -26.00 dB', 'Transmit Freq Error -47.837 Hz', and 'x dB Bandwidth 14.654 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'.

**19.27. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:27, Channel:132322, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.3	Peak	13.426	14.684	15	Pass



**19.28. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:28, Channel:132322, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

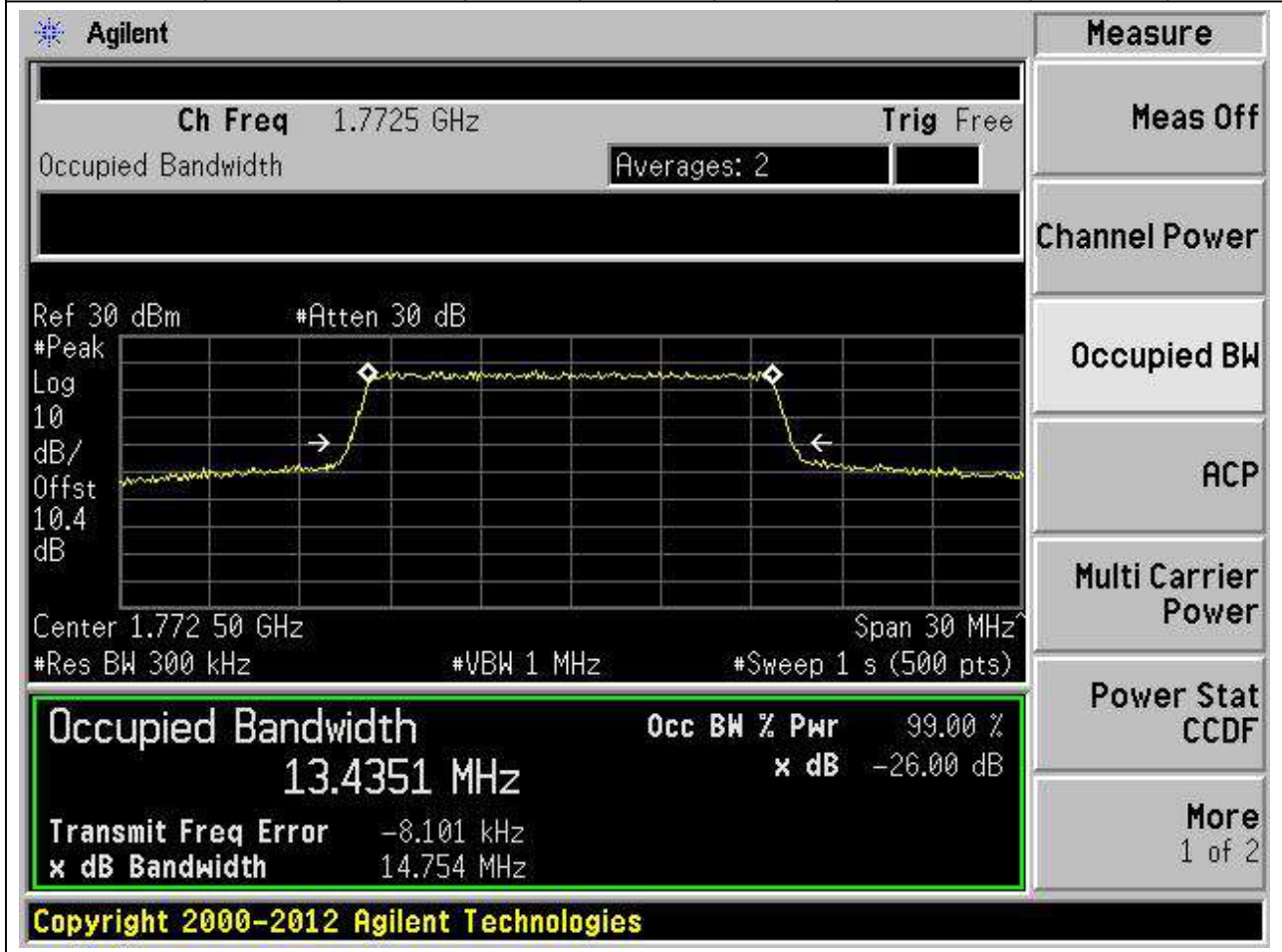
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.3	Peak	13.448	14.646	15	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.745 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow signal trace. The plot is set to 'Log' scale with a 'Ref 30 dBm' and '#Atten 30 dB'. The signal level is approximately 10.4 dB. The plot shows a signal with a bandwidth of 13.4483 MHz. The 'Occupied Bandwidth' is highlighted in a green box. The 'Occupied Bandwidth' is 13.4483 MHz, and the 'Occ BW % Pwr' is 99.00%. The 'x dB Bandwidth' is 14.646 MHz. The 'Transmit Freq Error' is 551.789 Hz. The 'x dB Bandwidth' is 14.646 MHz. The 'Power Stat' is CCDF. The 'More' button shows 1 of 2. The copyright notice at the bottom reads 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
13.4483 MHz	x dB	-26.00 dB
Transmit Freq Error	551.789 Hz	
x dB Bandwidth	14.646 MHz	

**19.29. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:29, Channel:132597, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

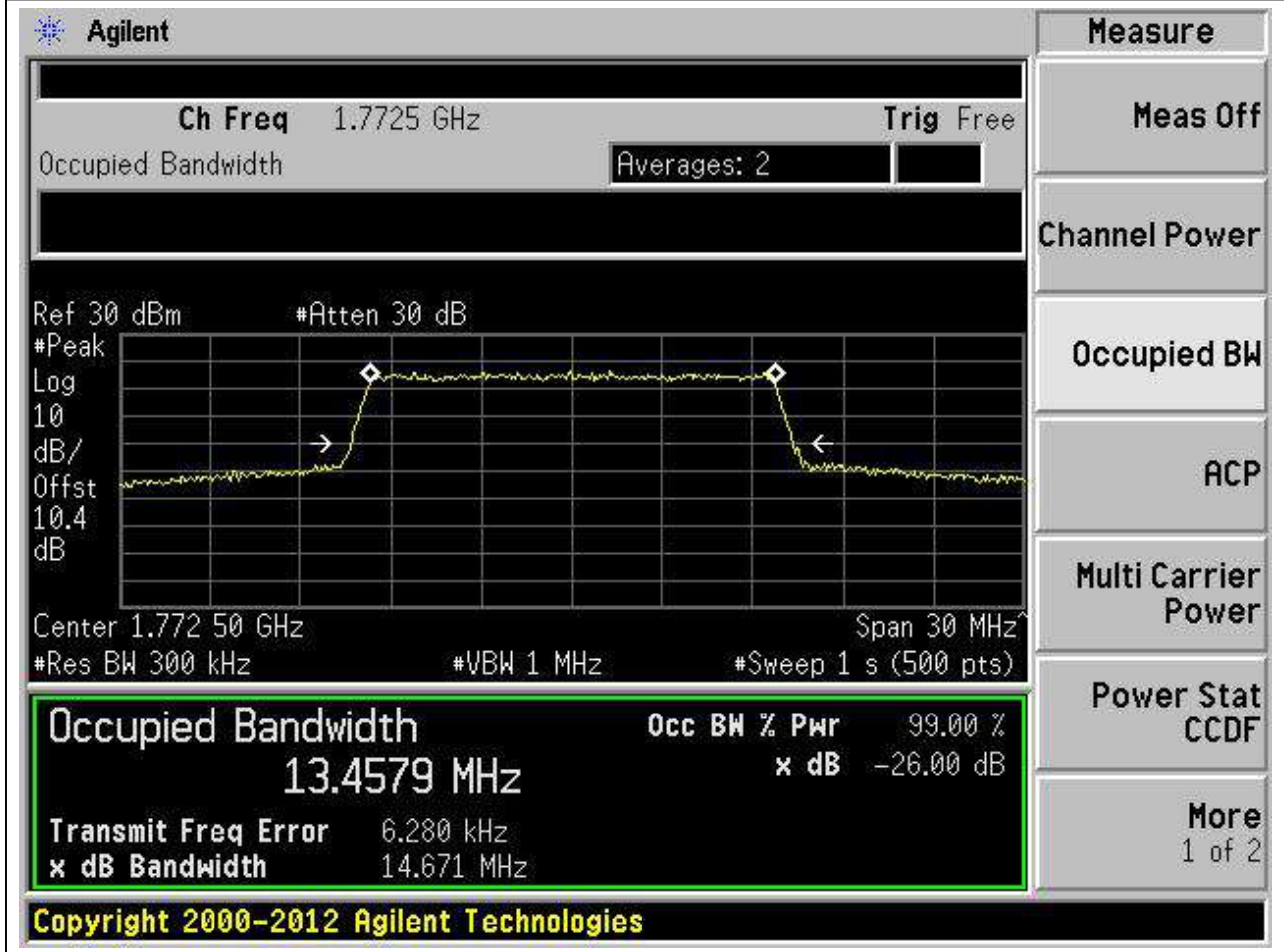
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1772.5	99	26	0.3	Peak	13.435	14.754	15	Pass





**19.30. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:30, Channel:132597, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1772.5	99	26	0.3	Peak	13.458	14.671	15	Pass



**19.31. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:31, Channel:132072, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1720	99	26	0.39	Peak	17.903	19.407	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.72 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is set to 'Log' scale with 'dB/Offst 10.3 dB'. The center frequency is 1.720 00 GHz and the span is 40 MHz. The resolution bandwidth (Res BW) is 390 kHz, the video bandwidth (VBW) is 1.2 MHz, and the sweep time is 1 s (512 pts). The plot shows a signal with a peak at approximately 1.72 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 17.9033 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is 10.722 kHz and the 'x dB Bandwidth' is 19.407 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'.

**19.32. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:32, Channel:132072, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1720	99	26	0.39	Peak	17.96	19.358	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.72 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 y-axis is labeled 'dB/Offst' with a value of '10.3 dB'. The x-axis is labeled 'Center 1.720 00 GHz' and 'Span 40 MHz'. Below the plot, the following parameters are shown: '#Res BW 390 kHz', '#VBW 1.2 MHz', and '#Sweep 1 s (512 pts)'. A summary box at the bottom of the plot area contains the following data:

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
<b>17.9599 MHz</b>	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>		15.116 kHz
<b>x dB Bandwidth</b>		19.358 MHz

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

Copyright 2000-2012 Agilent Technologies

**19.33. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:33, Channel:132322, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.39	Peak	17.898	19.408	20	Pass

Agilent
Measure

Ch Freq 1.745 GHz      Trig Free

Occupied Bandwidth      Averages: 2

Ref 30 dBm      #Atten 30 dB

#Peak

Log

10

dB/

Offst

10.4

dB

Center 1.745 00 GHz      Span 40 MHz

#Res BW 390 kHz      #VBW 1.2 MHz      #Sweep 1 s (512 pts)

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

**17.8984 MHz**      x dB      -26.00 dB

Transmit Freq Error      -4.691 kHz

x dB Bandwidth      19.408 MHz

Copyright 2000-2012 Agilent Technologies

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More  
1 of 2

**19.34. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:34, Channel:132322, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

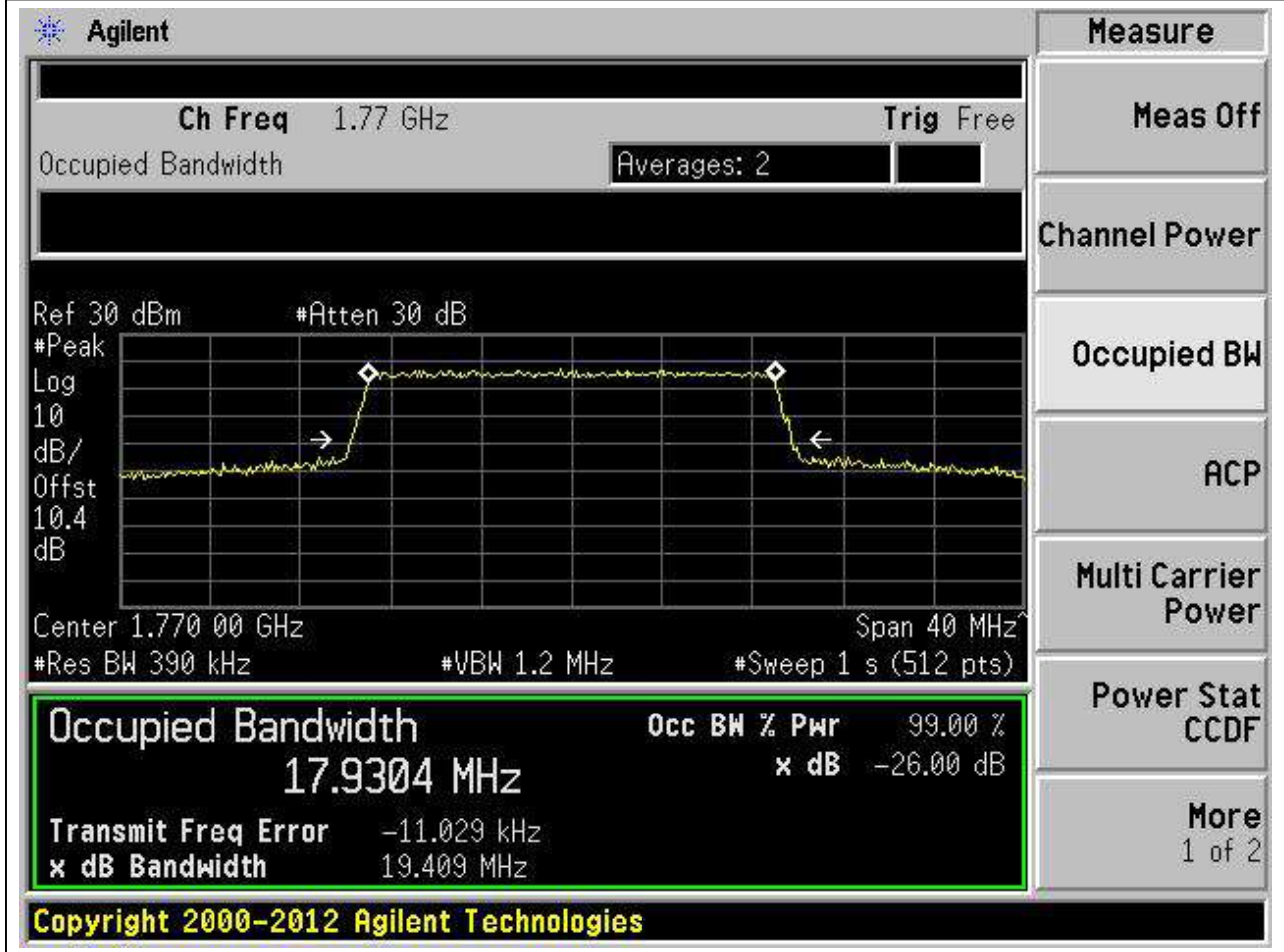
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1745	99	26	0.39	Peak	17.907	19.388	20	Pass

The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.745 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 resolution bandwidth of 390 kHz and a video bandwidth of 1.2 MHz. The center frequency is 1.745 GHz and the span is 40 MHz. The plot shows a signal with a peak level of approximately -26 dB. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 17.9070 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. Other parameters shown include 'Transmit Freq Error -9.012 kHz' and 'x dB Bandwidth 19.388 MHz'. The interface also includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More 1 of 2'. The bottom of the screen displays the copyright notice 'Copyright 2000-2012 Agilent Technologies'.



**19.35. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:35, Channel:132572, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1770	99	26	0.39	Peak	17.93	19.409	20	Pass



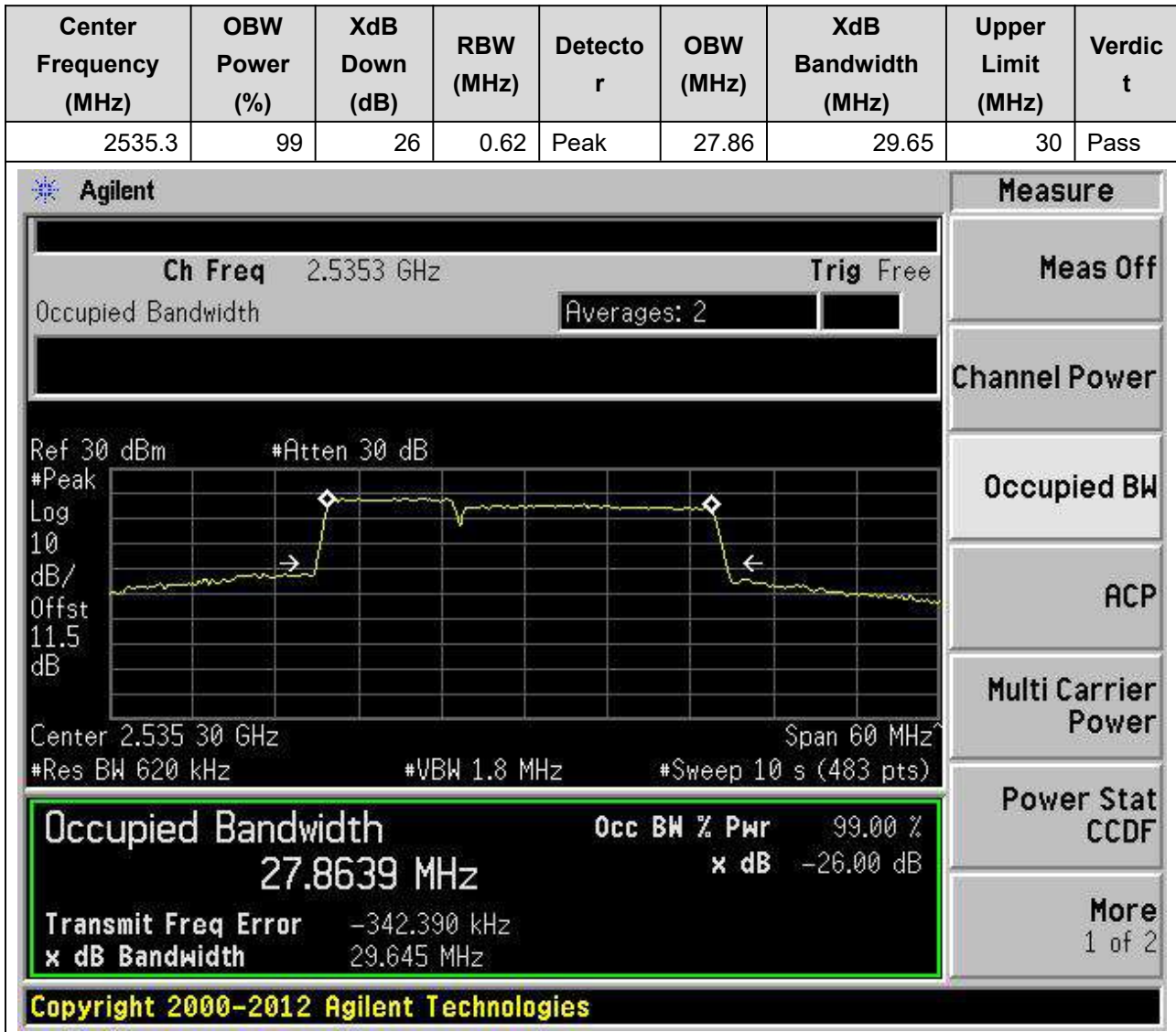
**19.36. LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:36, Channel:132572, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1770	99	26	0.39	Peak	17.902	19.432	20	Pass

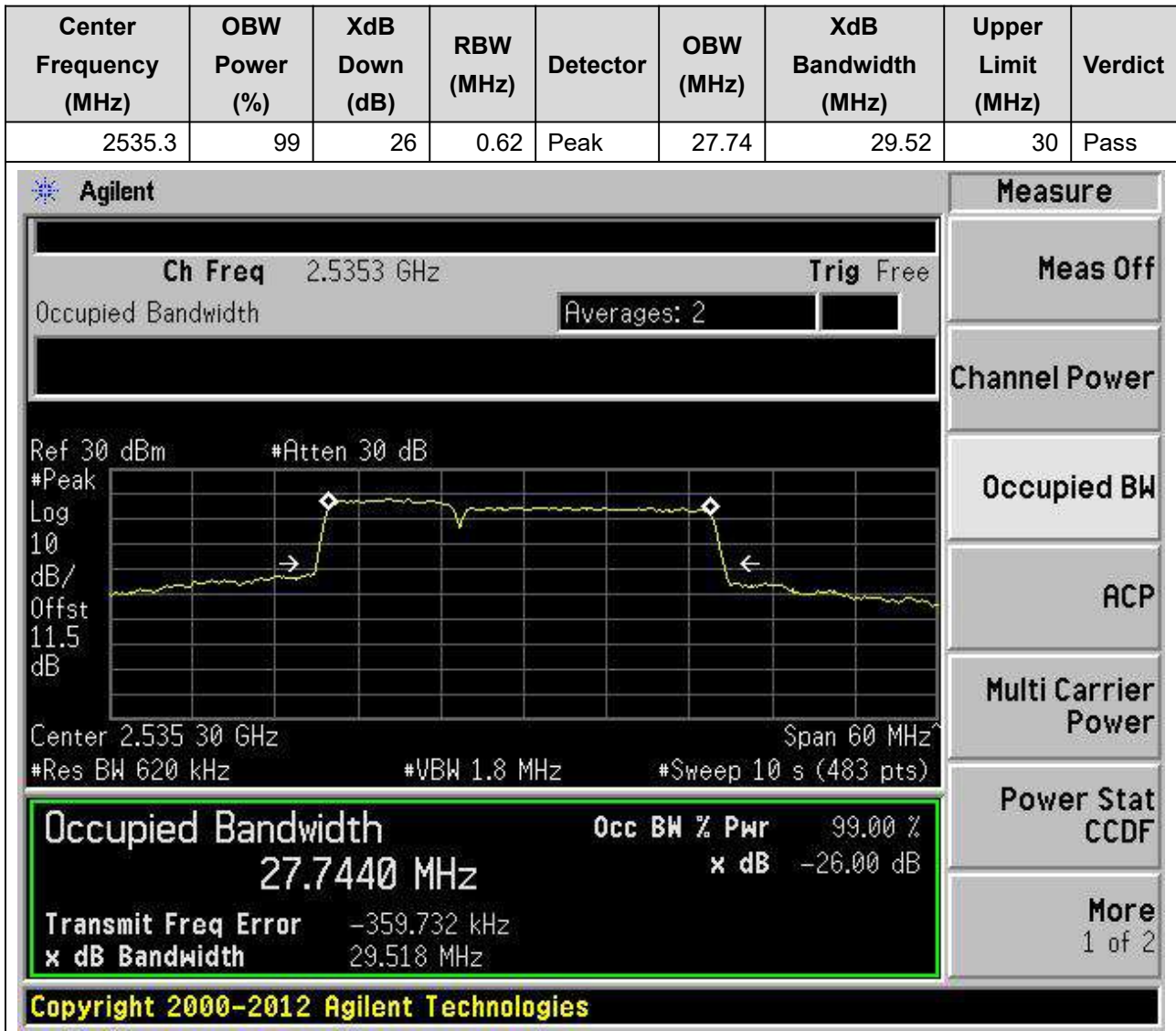
The screenshot displays the Agilent spectrum analyzer interface. At the top, it shows 'Ch Freq 1.77 GHz' and 'Trig Free'. The main display area shows a spectrum plot with a yellow trace. The plot is set to 'Log' scale with 'dB/Offst 10.4 dB'. The center frequency is 1.770 00 GHz and the span is 40 MHz. The resolution bandwidth (Res BW) is 390 kHz, the video bandwidth (VBW) is 1.2 MHz, and the sweep time is 1 s (512 pts). The plot shows a signal with a peak at approximately 1.770 GHz. The 'Occupied Bandwidth' is highlighted in a green box, showing a value of 17.9017 MHz. The 'Occ BW % Pwr' is 99.00% and the 'x dB' is -26.00 dB. The 'Transmit Freq Error' is 6.232 kHz and the 'x dB Bandwidth' is 19.432 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'.

## 20. CA\_7C

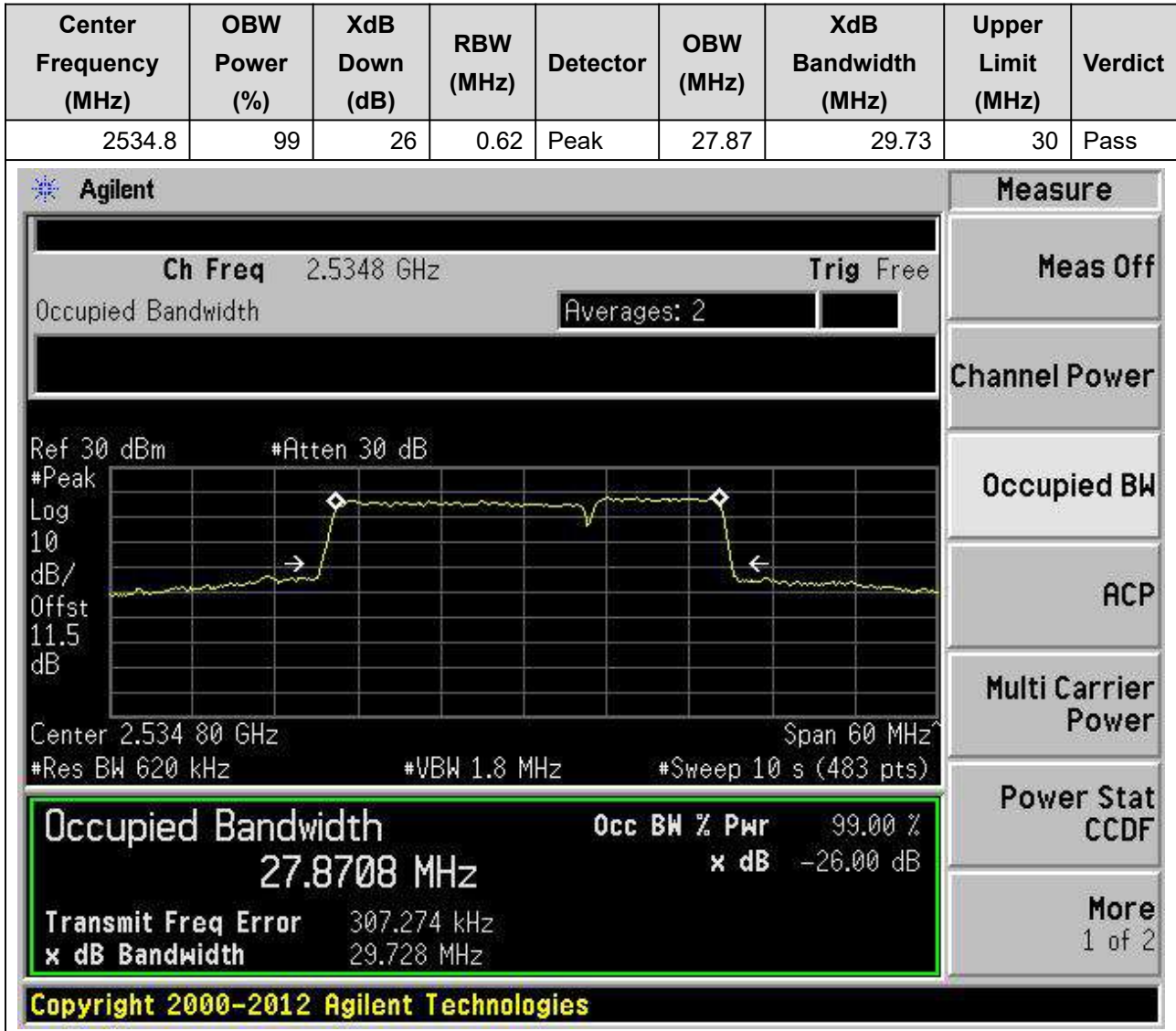
20.1. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:1,  
Channel:21006|21150, Bandwidth:10|20MHz, Modulation:QPSK, RB  
Number:Full|Full, RB Position:Low|Low)



**20.2. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:2,  
Channel:21006|21150, Bandwidth:10|20MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**

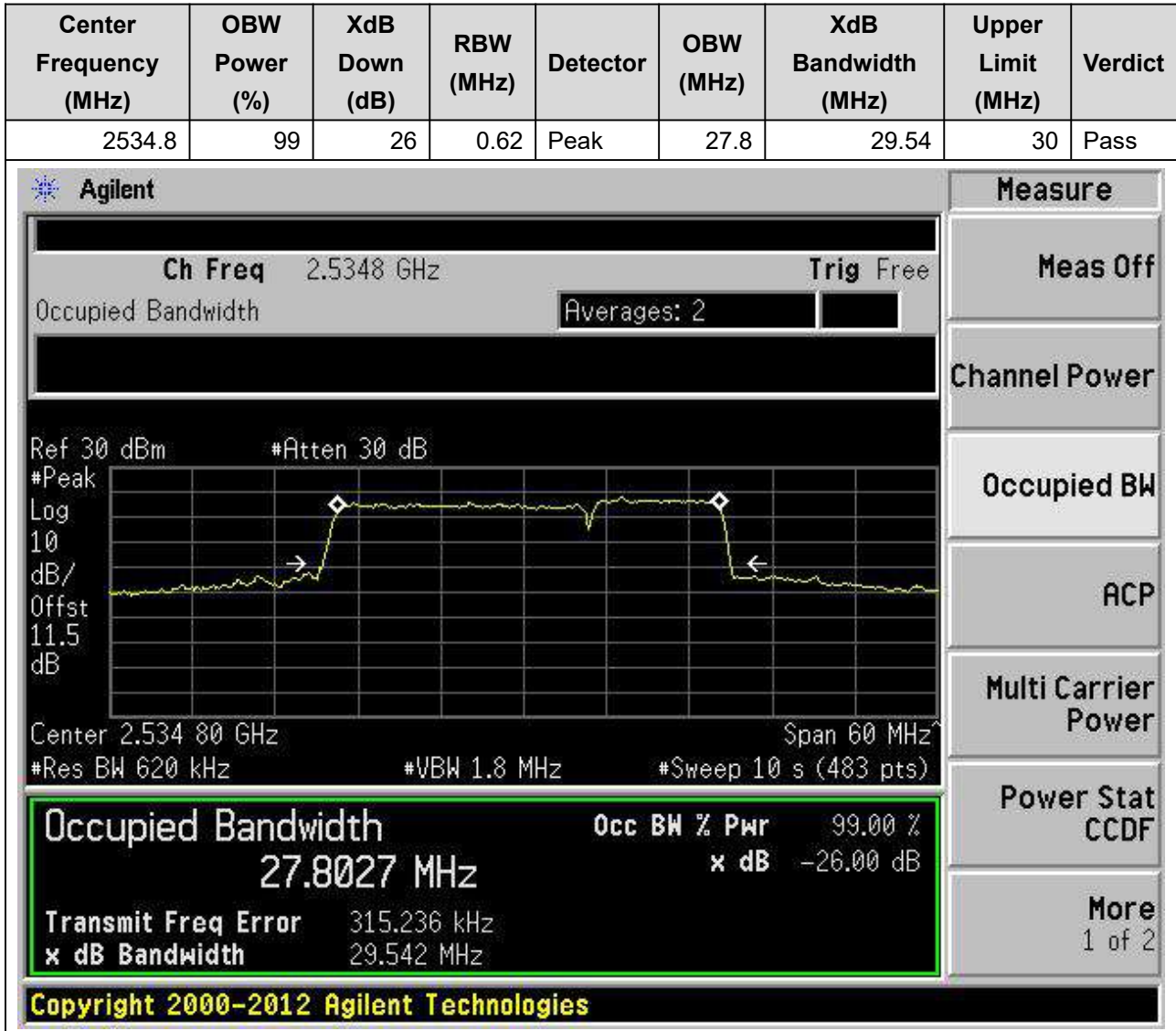


**20.3. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:3, Channel:21051|21195, Bandwidth:20|10MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)**

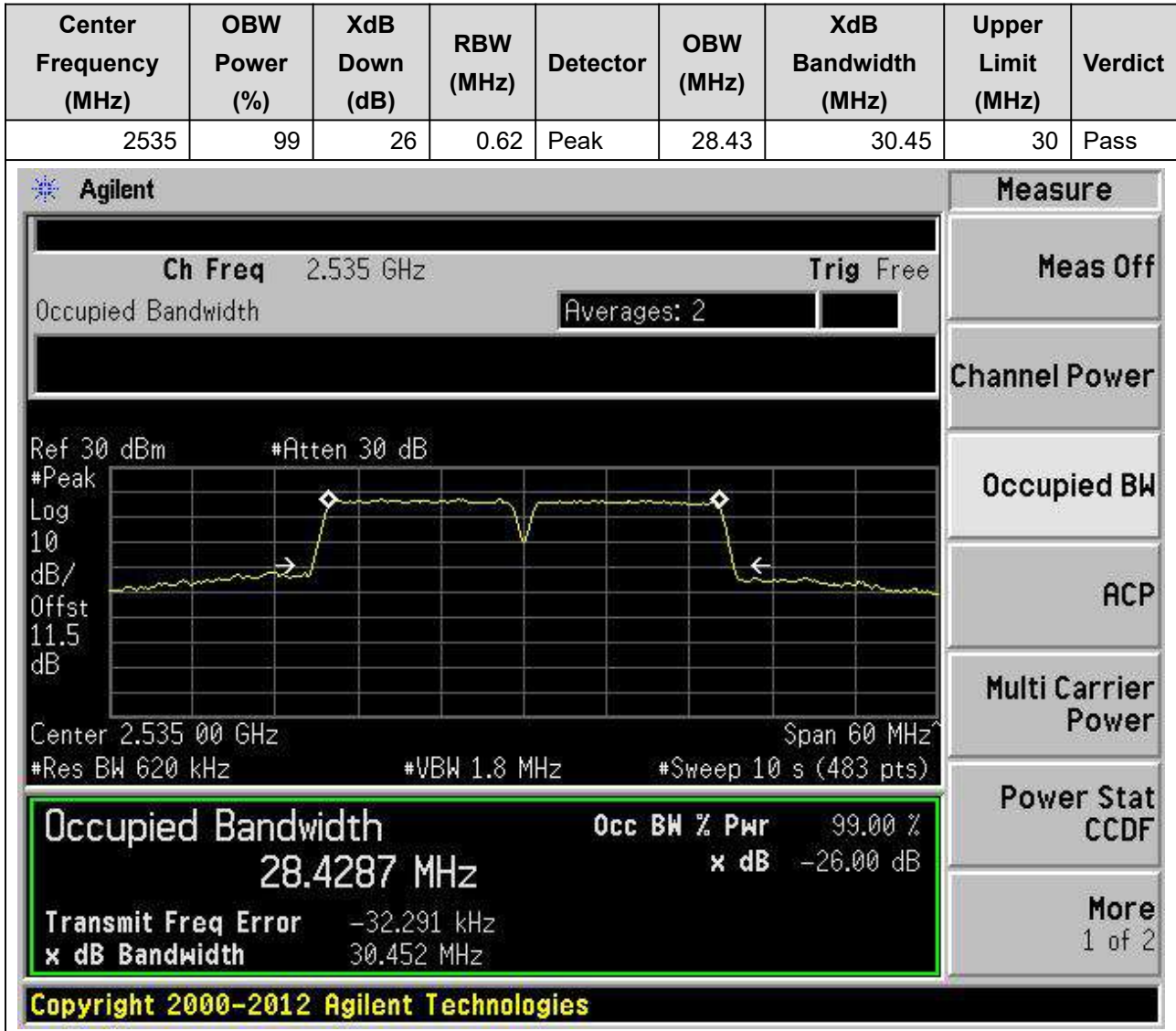




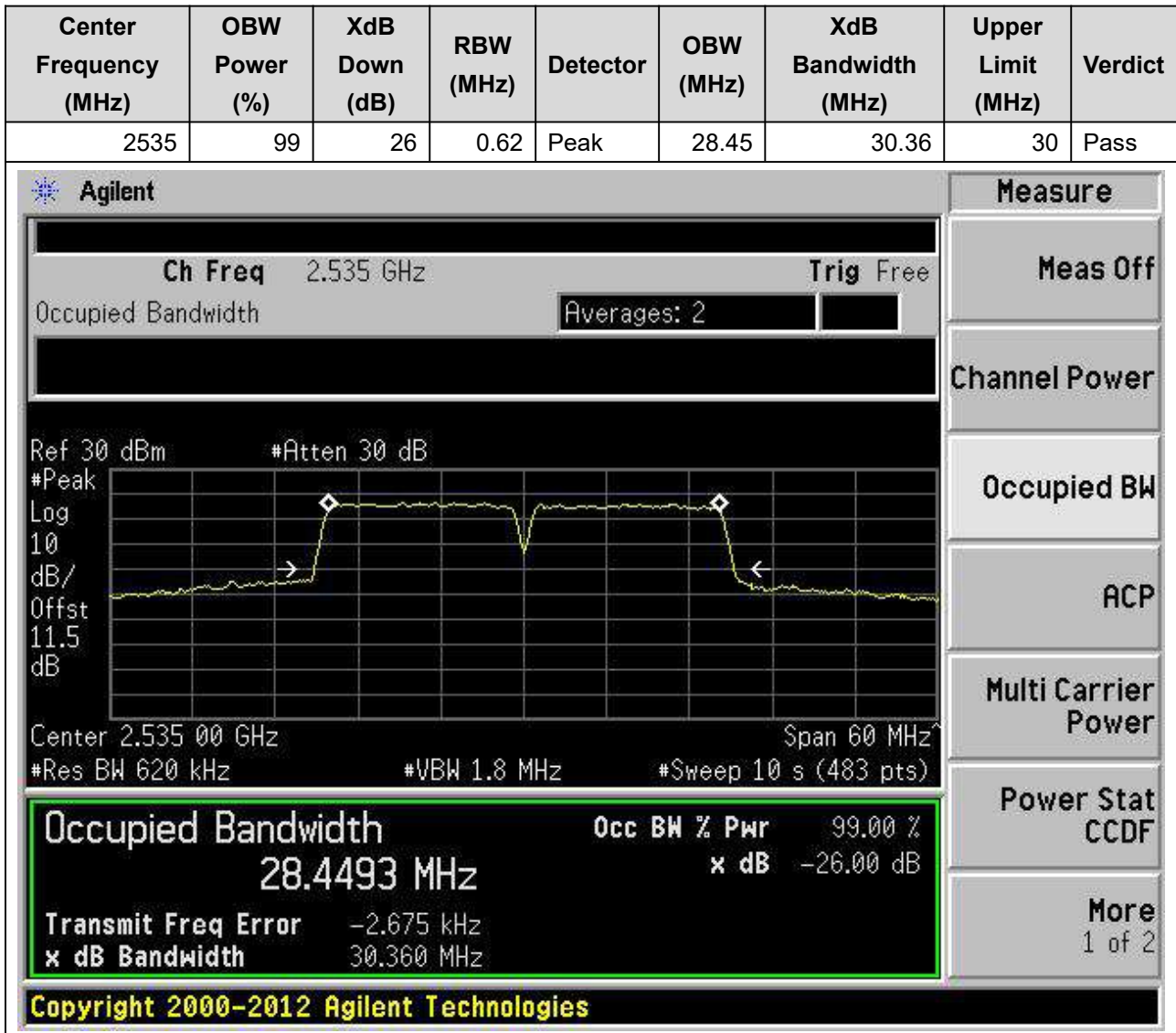
**20.4. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:4,  
Channel:21051|21195, Bandwidth:20|10MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**



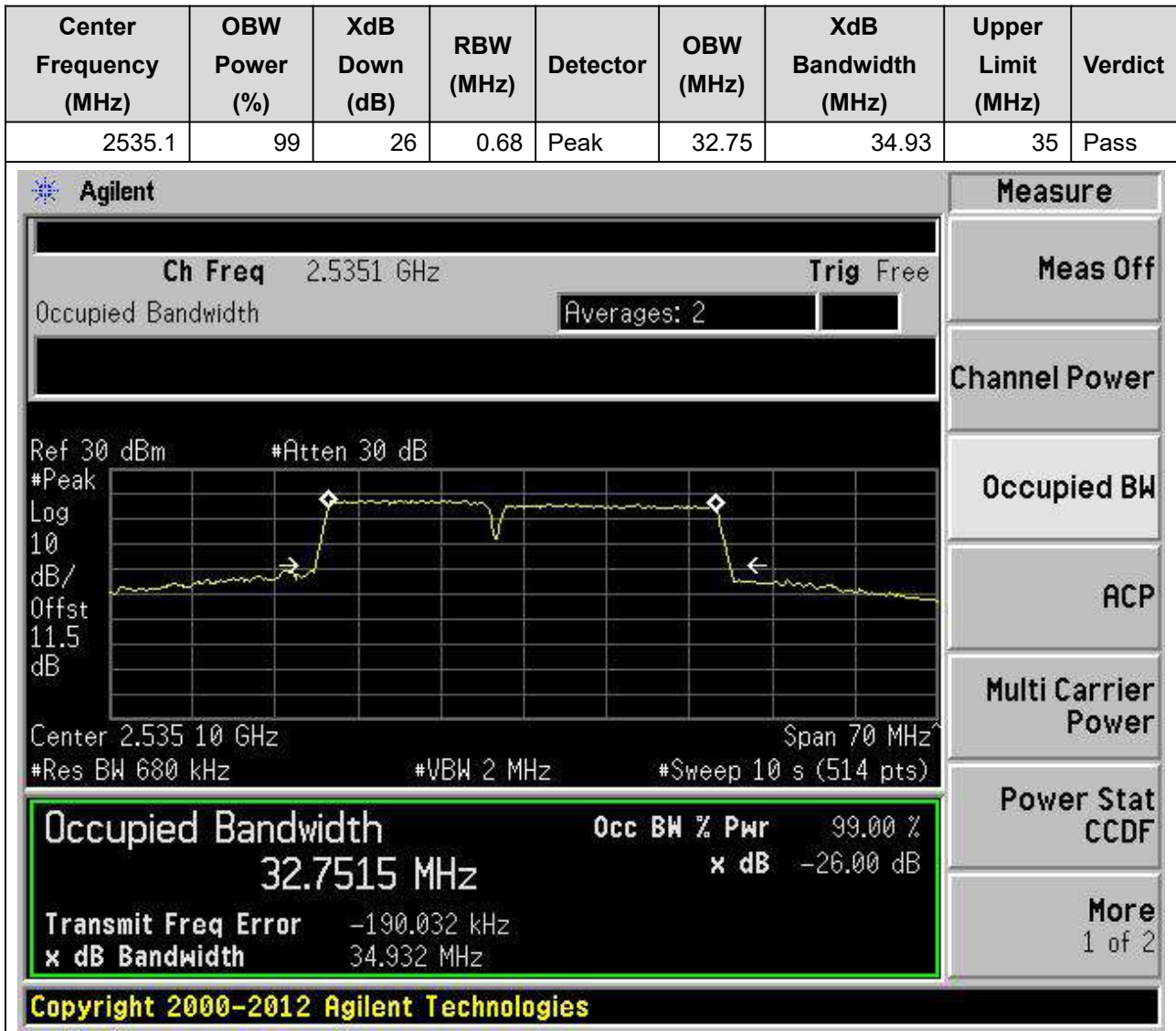
**20.5. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:5, Channel:21025|21175, Bandwidth:15|15MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)**



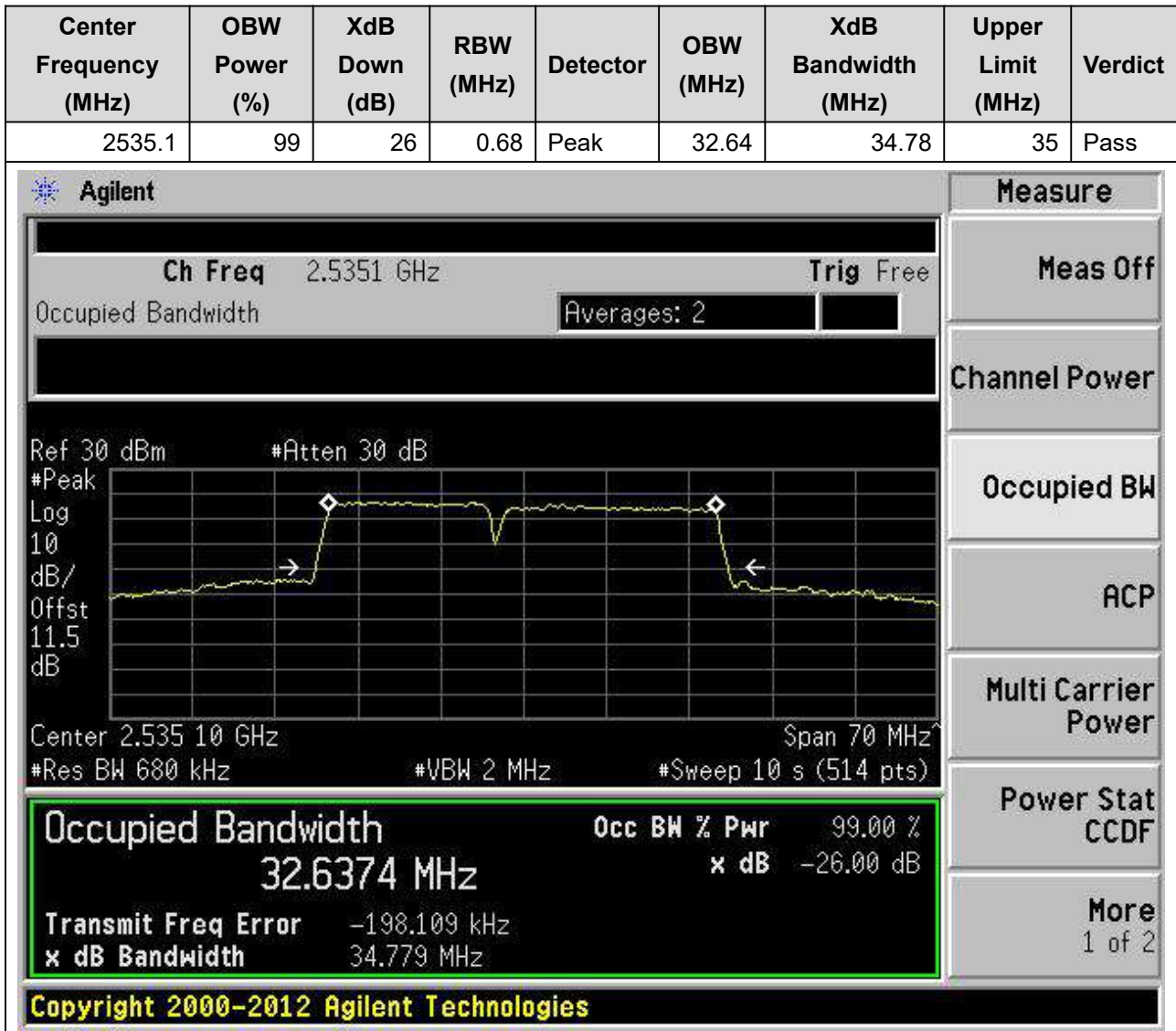
**20.6. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:6,  
Channel:21025|21175, Bandwidth:15|15MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**



**20.7. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:7,  
Channel:21003|21174, Bandwidth:15|20MHz, Modulation:QPSK, RB  
Number:Full|Full, RB Position:Low|Low)**

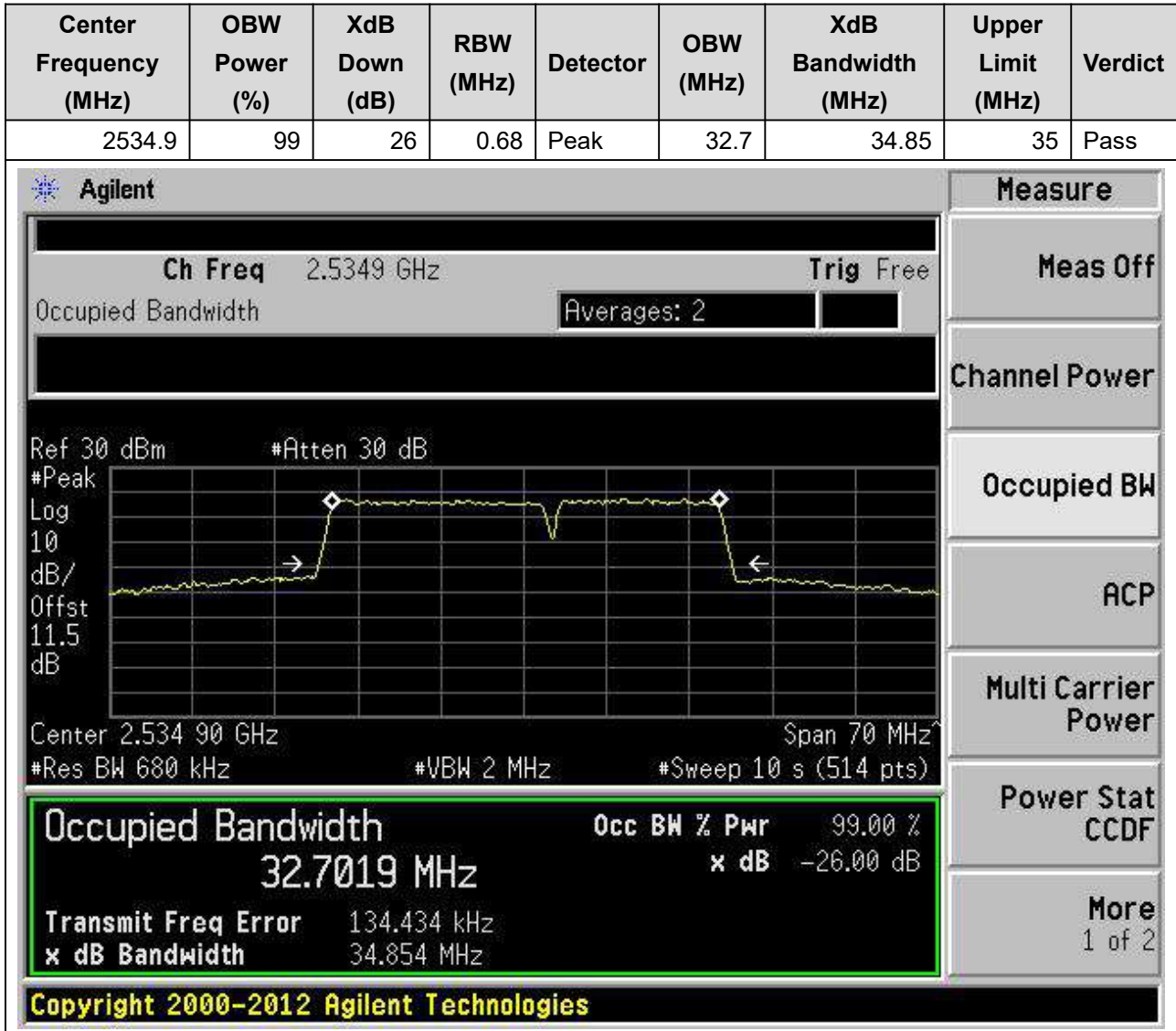


**20.8. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:8,  
Channel:21003|21174, Bandwidth:15|20MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**

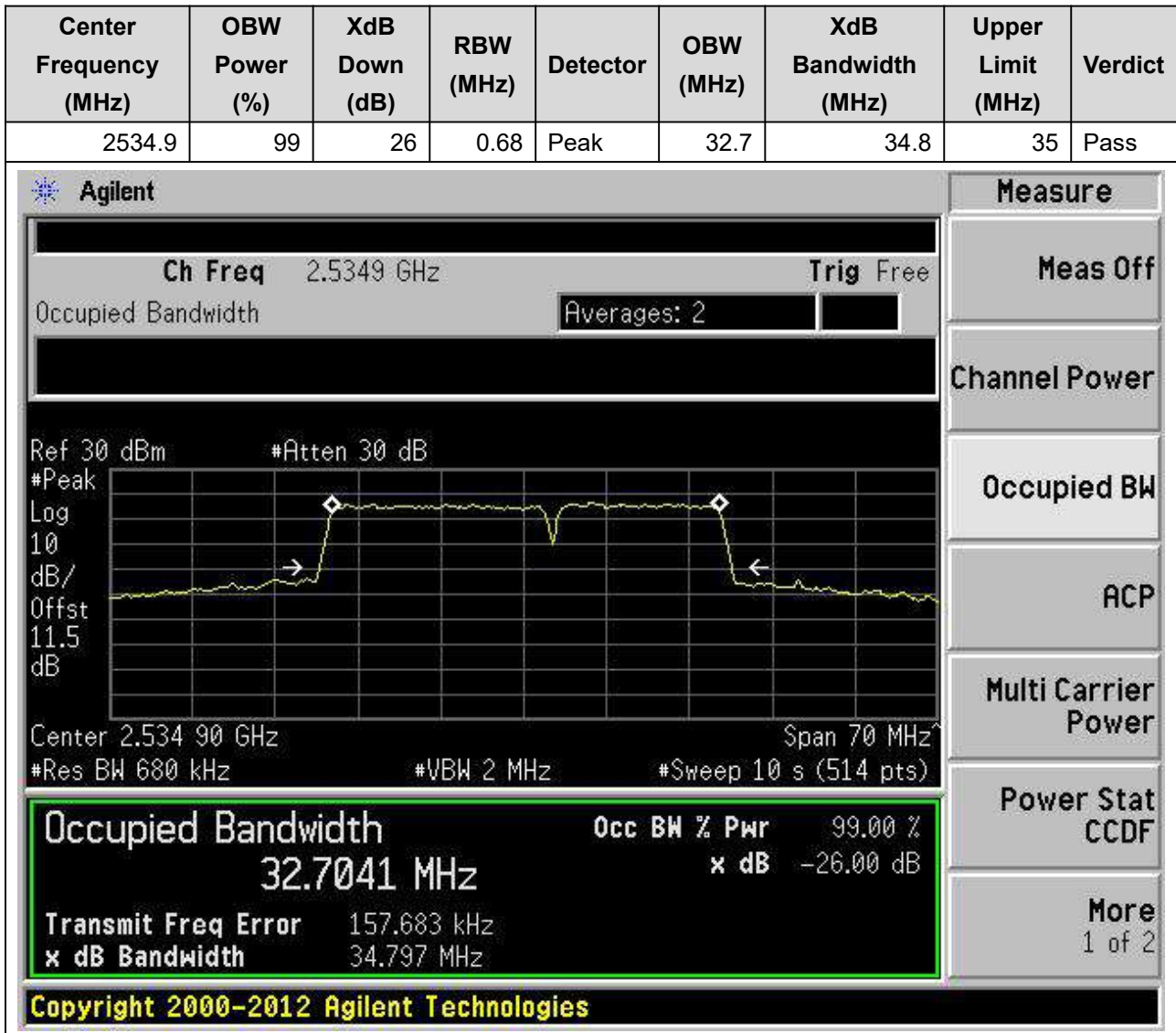




**20.9. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:9, Channel:21026|21197, Bandwidth:20|15MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)**



**20.10. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:10, Channel:21026|21197, Bandwidth:20|15MHz, Modulation:16QAM, RB Number:Full|Full, RB Position:Low|Low)**



**20.11. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:11, Channel:21001|21199, Bandwidth:20|20MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2535	99	26	0.82	Peak	37.69	40.03	40	Pass

**Agilent**

Ch Freq 2.535 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 11.5 dB

Center 2.535 00 GHz Span 80 MHz

#Res BW 820 kHz #VBW 2.4 MHz #Sweep 10 s (487 pts)

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

**37.6853 MHz** x dB -26.00 dB

Transmit Freq Error -23.626 kHz

x dB Bandwidth 40.032 MHz

Copyright 2000-2012 Agilent Technologies

**Measure**

Meas Off

Channel Power

Occupied BW

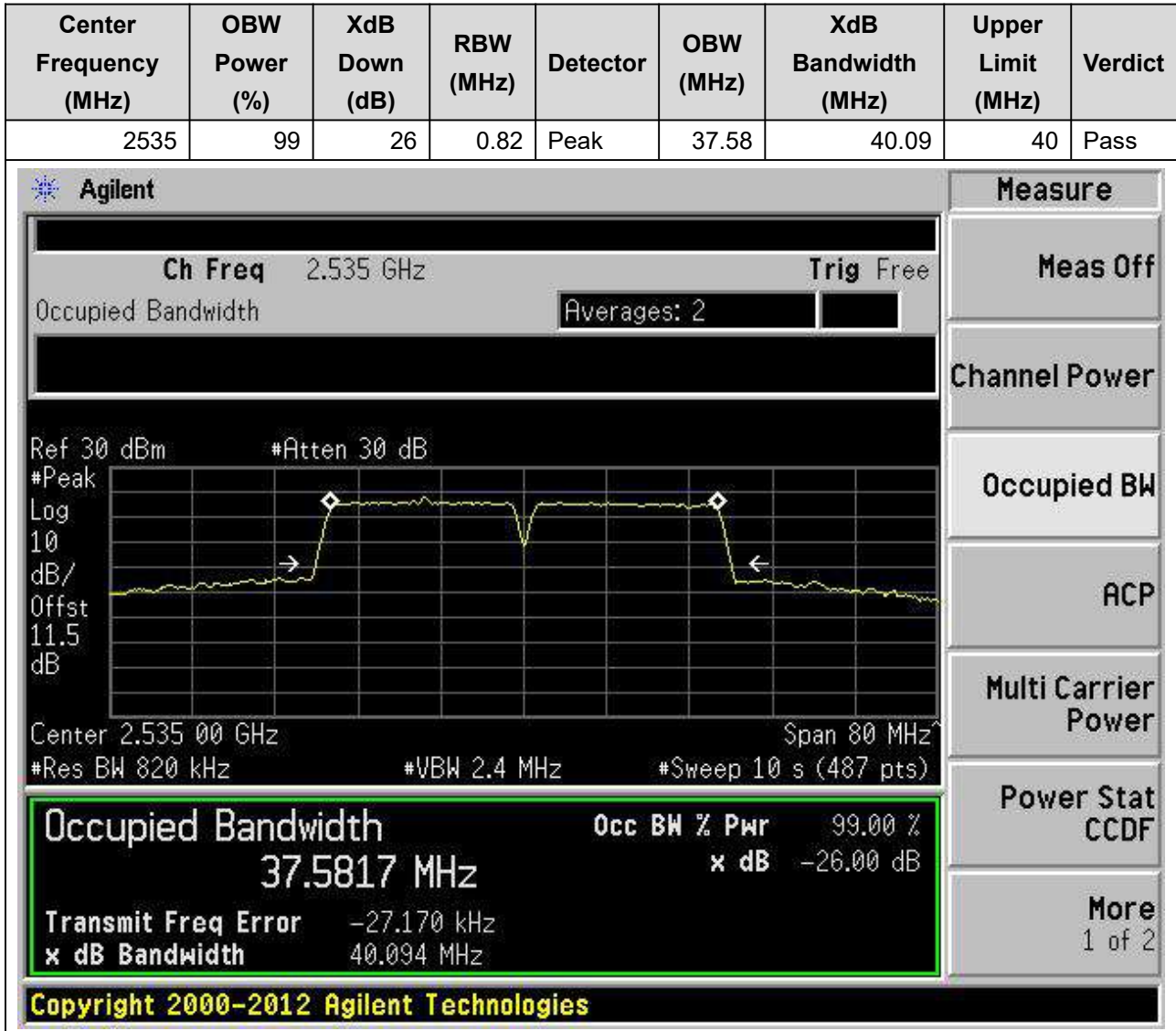
ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

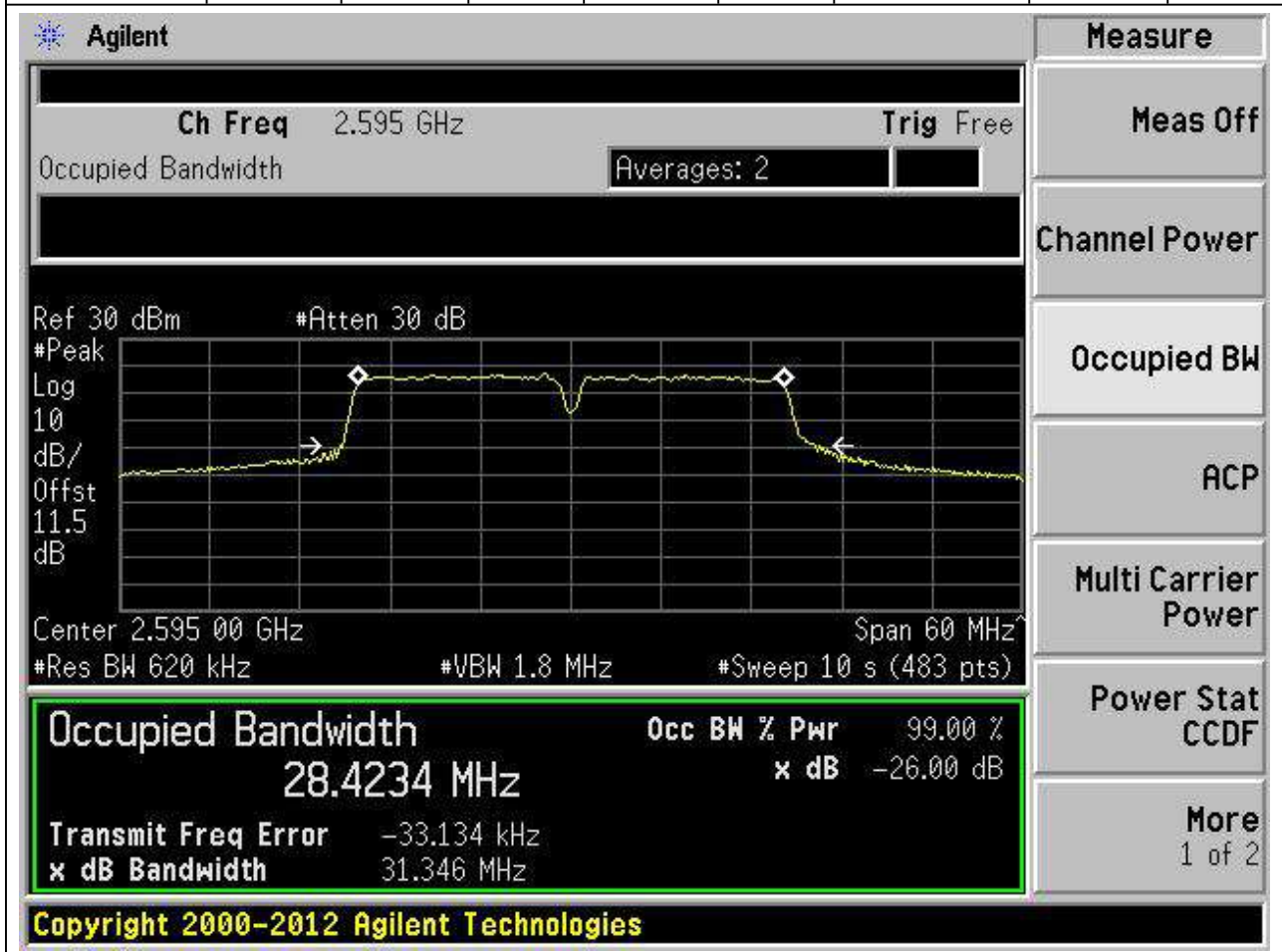
**20.12. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:12, Channel:21001|21199, Bandwidth:20|20MHz, Modulation:16QAM, RB Number:Full|Full, RB Position:Low|Low)**



## 21. CA\_38C

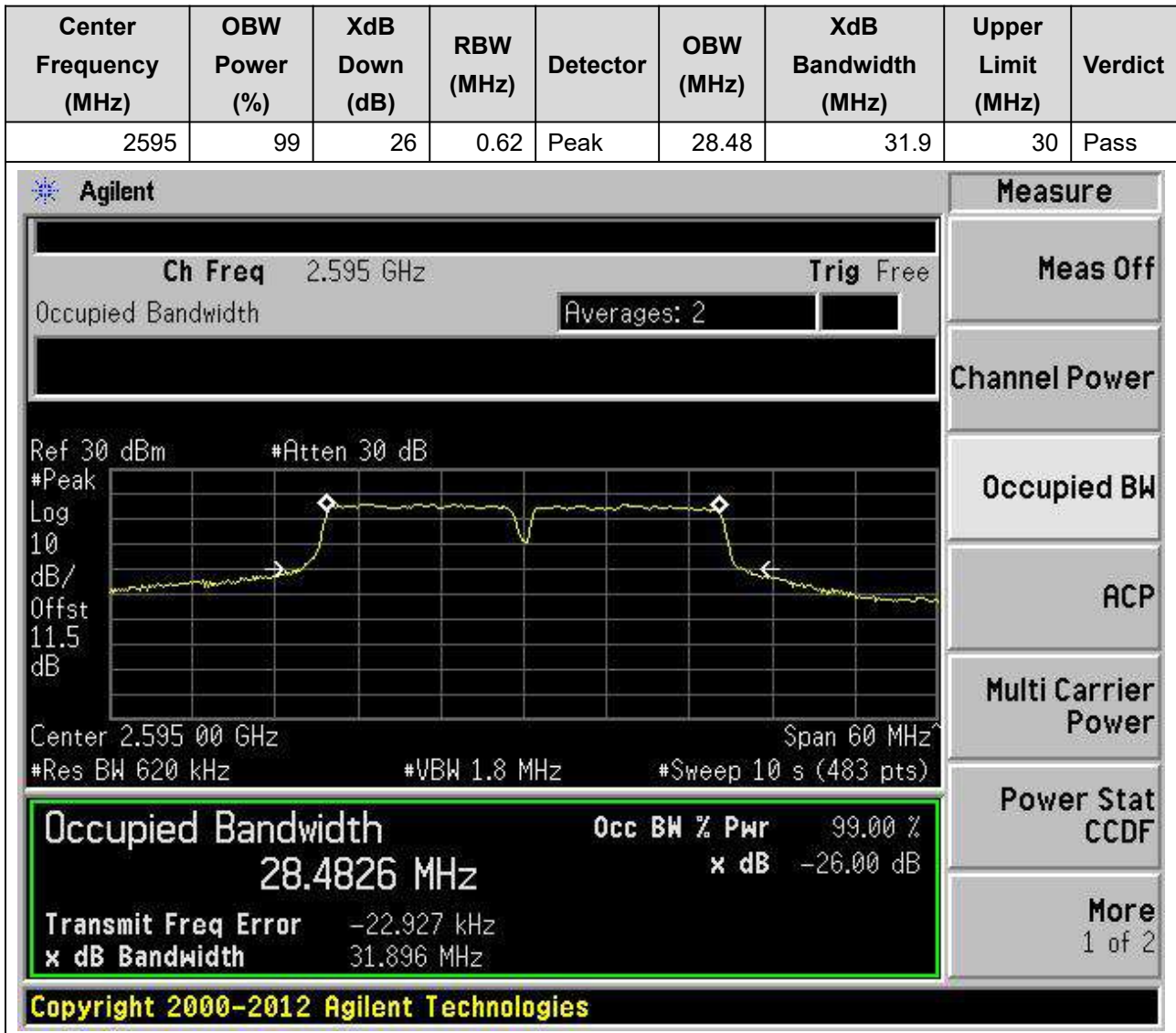
21.1. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:1,  
Channel:37925|38075, Bandwidth:15|15MHz, Modulation:QPSK, RB  
Number:Full|Full, RB Position:Low|Low)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595	99	26	0.62	Peak	28.42	31.35	30	Pass

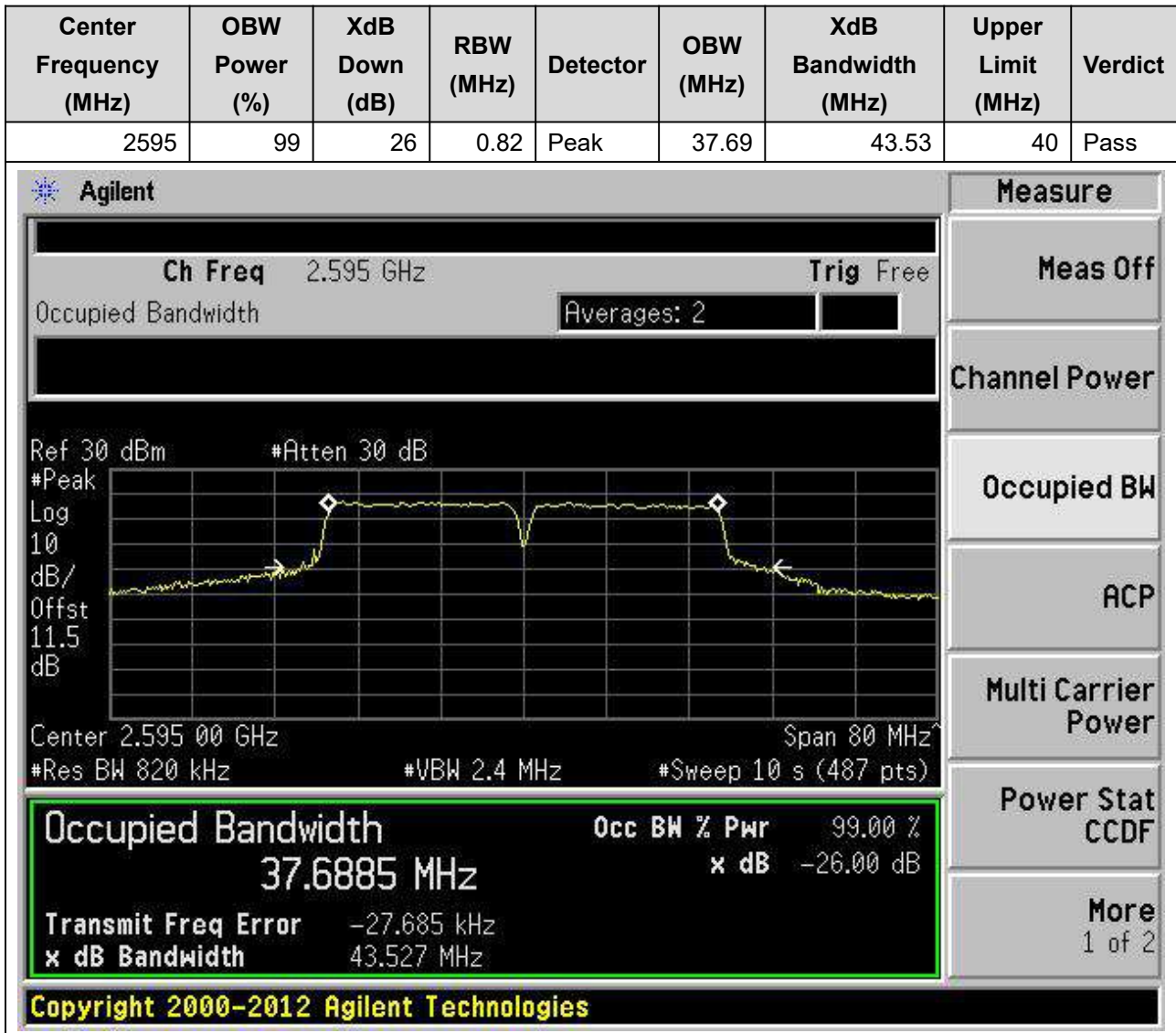




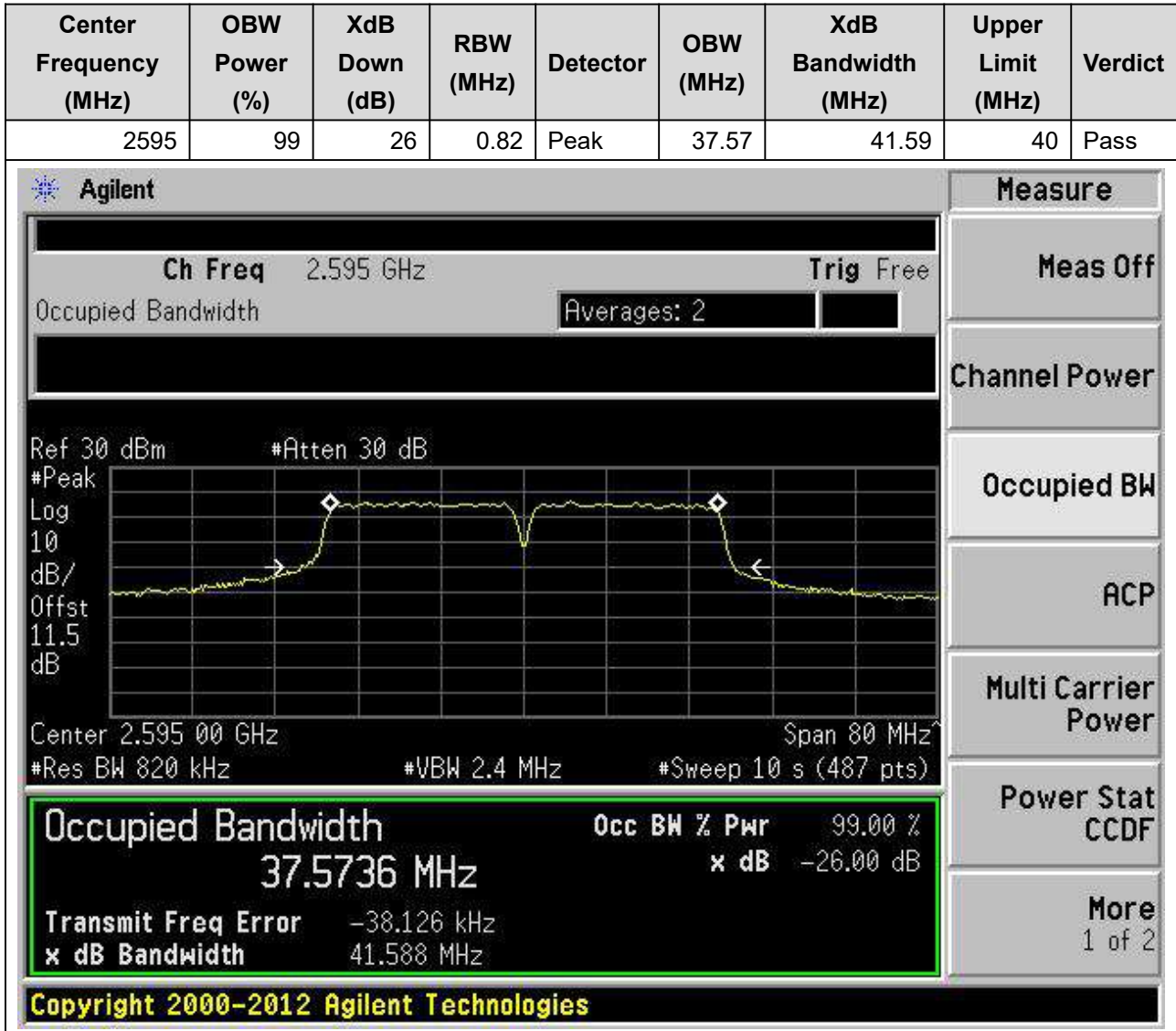
**21.2. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:2,  
Channel:37925|38075, Bandwidth:15|15MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**



**21.3. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:3, Channel:37901|38099, Bandwidth:20|20MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)**

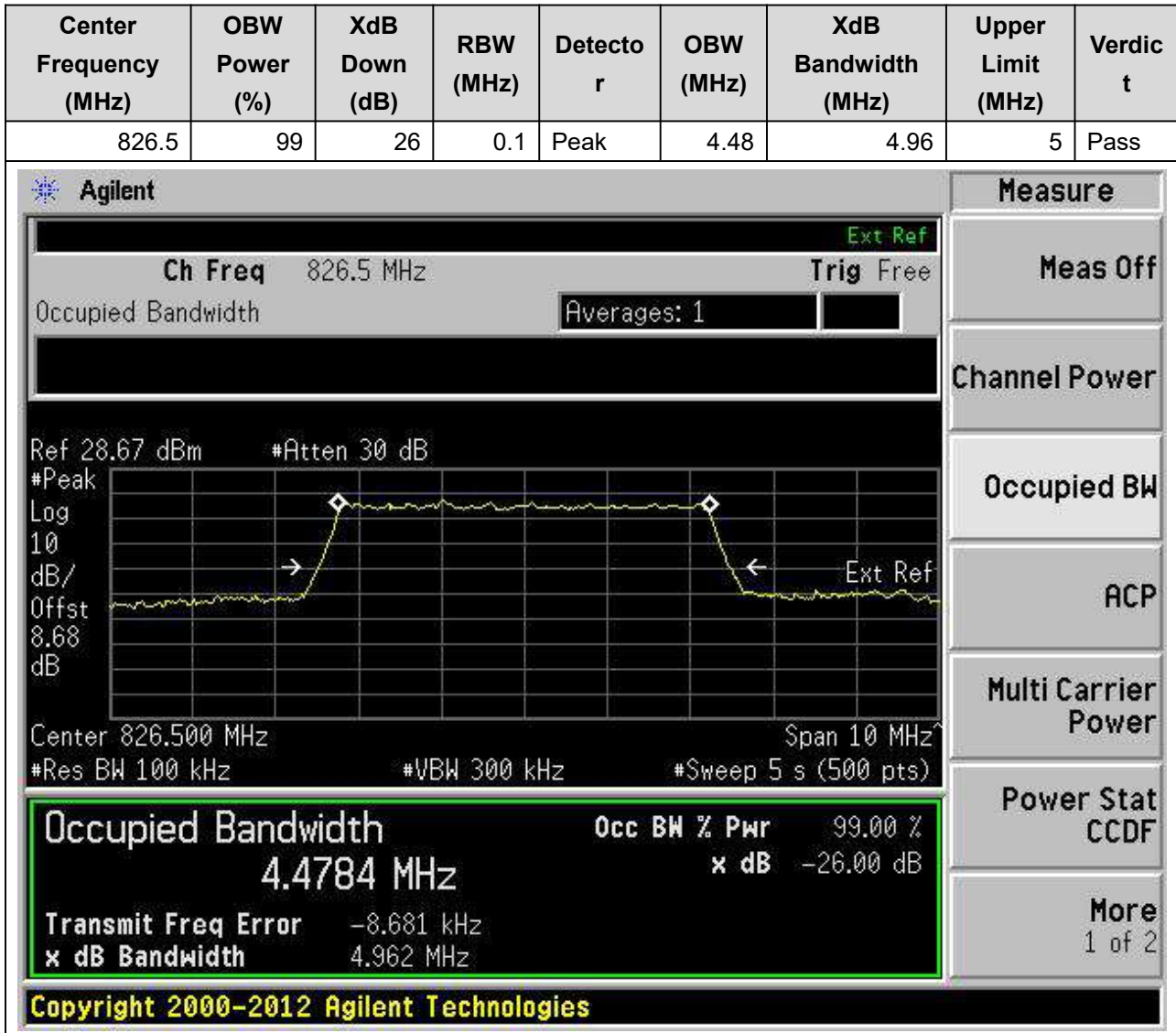


**21.4. LTE-A Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:4,  
Channel:37901|38099, Bandwidth:20|20MHz, Modulation:16QAM, RB  
Number:Full|Full, RB Position:Low|Low)**



## 22. n5

### 22.1. Occupied Bandwidth for SA(NTNV)(Channel:165300, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:25, RB Position:0)



**22.2. Occupied Bandwidth for SA(NTNV)(Channel:167300, Bandwidth:5, SCS:15, OFDM:CP-OFDM, Modulation:QPSK, RB Number:25, RB Position:0)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
836.5	99	26	0.1	Peak	4.48	4.97	5	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 836.500 MHz and the span is 10 MHz. The occupied bandwidth is measured as 4.4785 MHz. The power level is 99.00% and the XdB down is -26.00 dB. The transmit frequency error is -8.867 kHz and the XdB bandwidth is 4.974 MHz. The interface includes a 'Measure' menu on the right with options like 'Meas Off', 'Channel Power', 'Occupied BW', 'ACP', 'Multi Carrier Power', 'Power Stat CCDF', and 'More'. The bottom of the screen shows the copyright notice: 'Copyright 2000-2012 Agilent Technologies'.

Occupied Bandwidth	Occ BW % Pwr	99.00 %
4.4785 MHz	x dB	-26.00 dB
Transmit Freq Error	-8.867 kHz	
x dB Bandwidth	4.974 MHz	