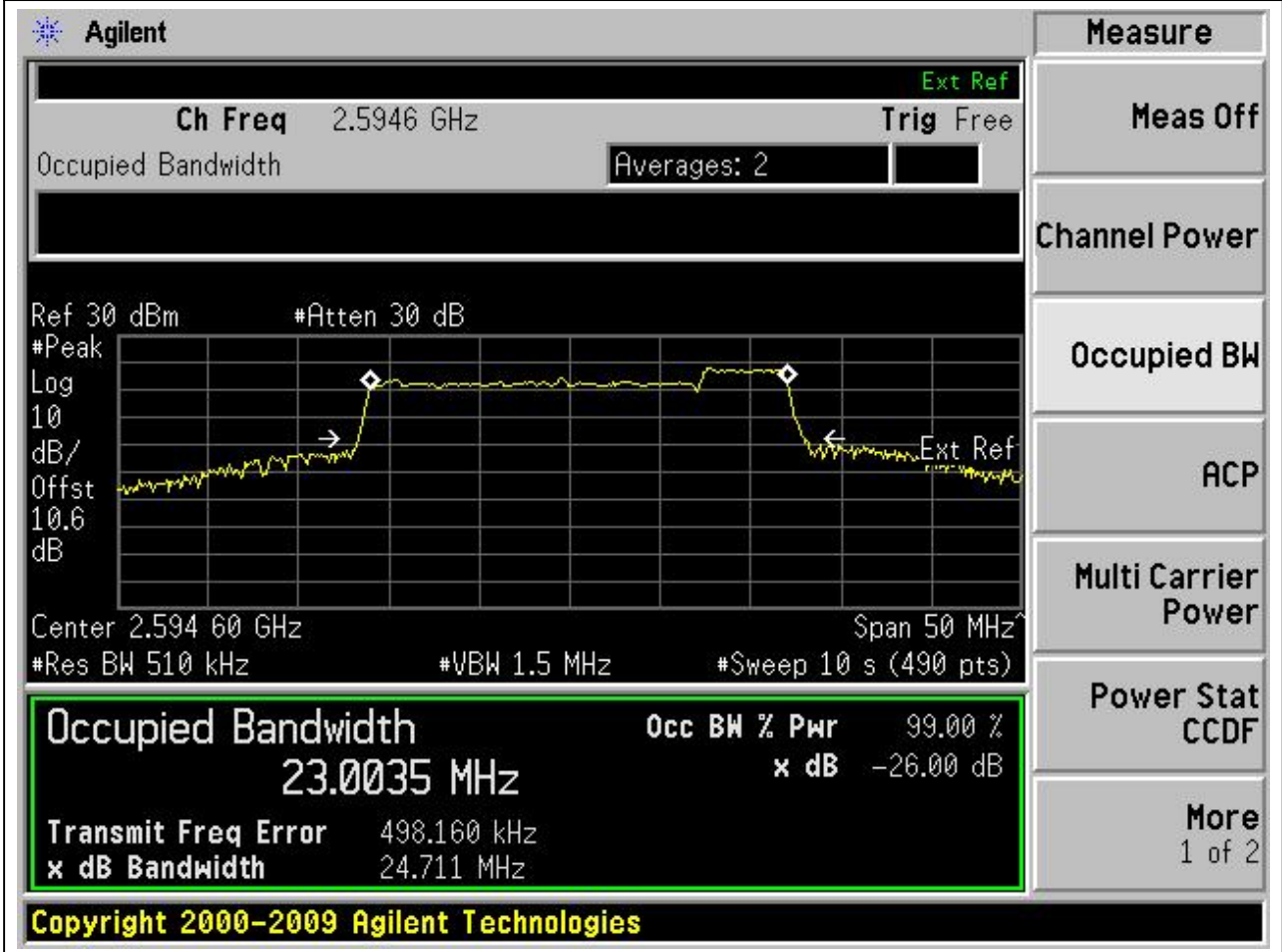


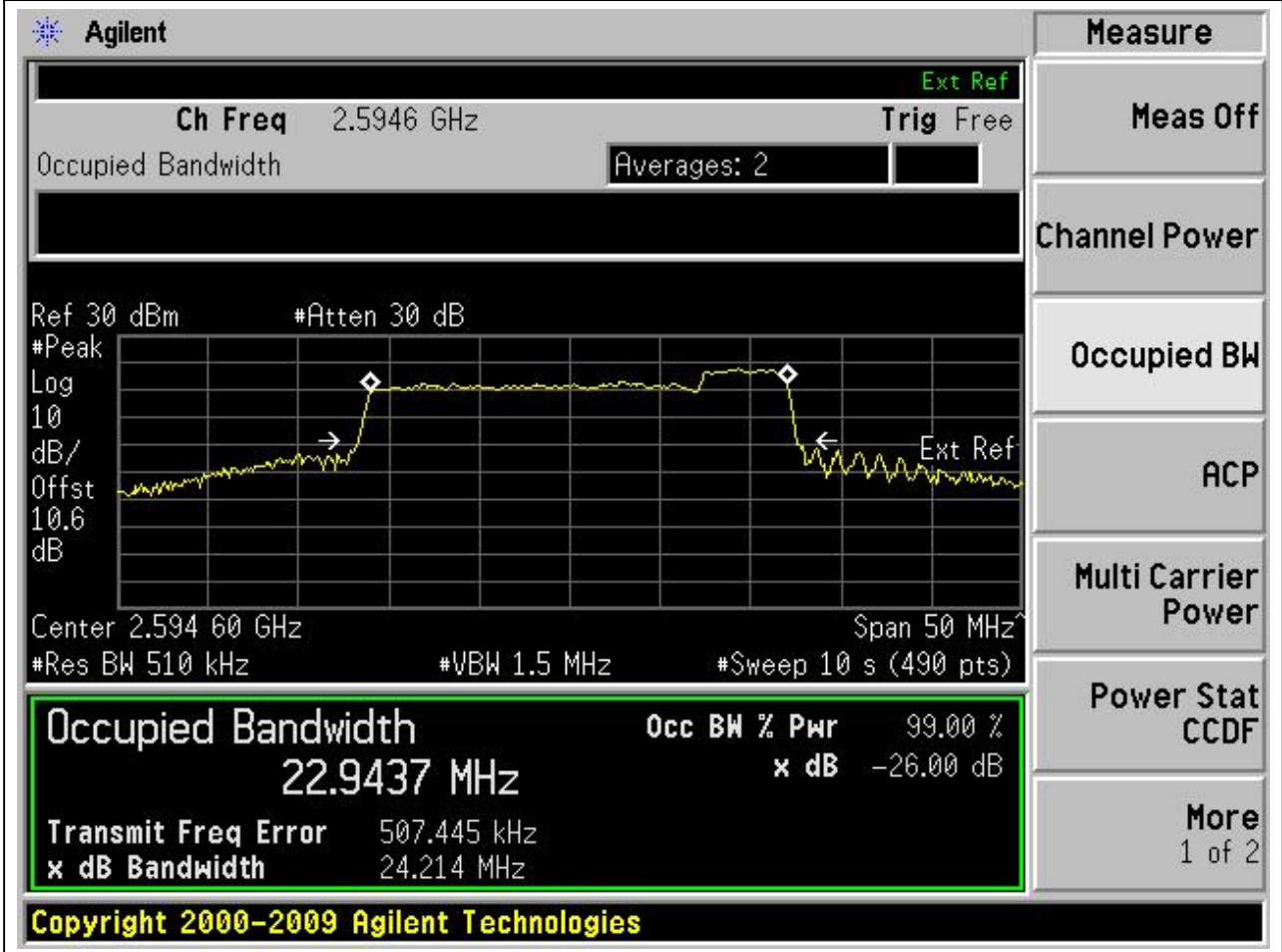
**23.3 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:3,
Channel:40615|40732, Bandwidth:20|5MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2594.6	99	26	0.51	Peak	23	24.71	25	Pass



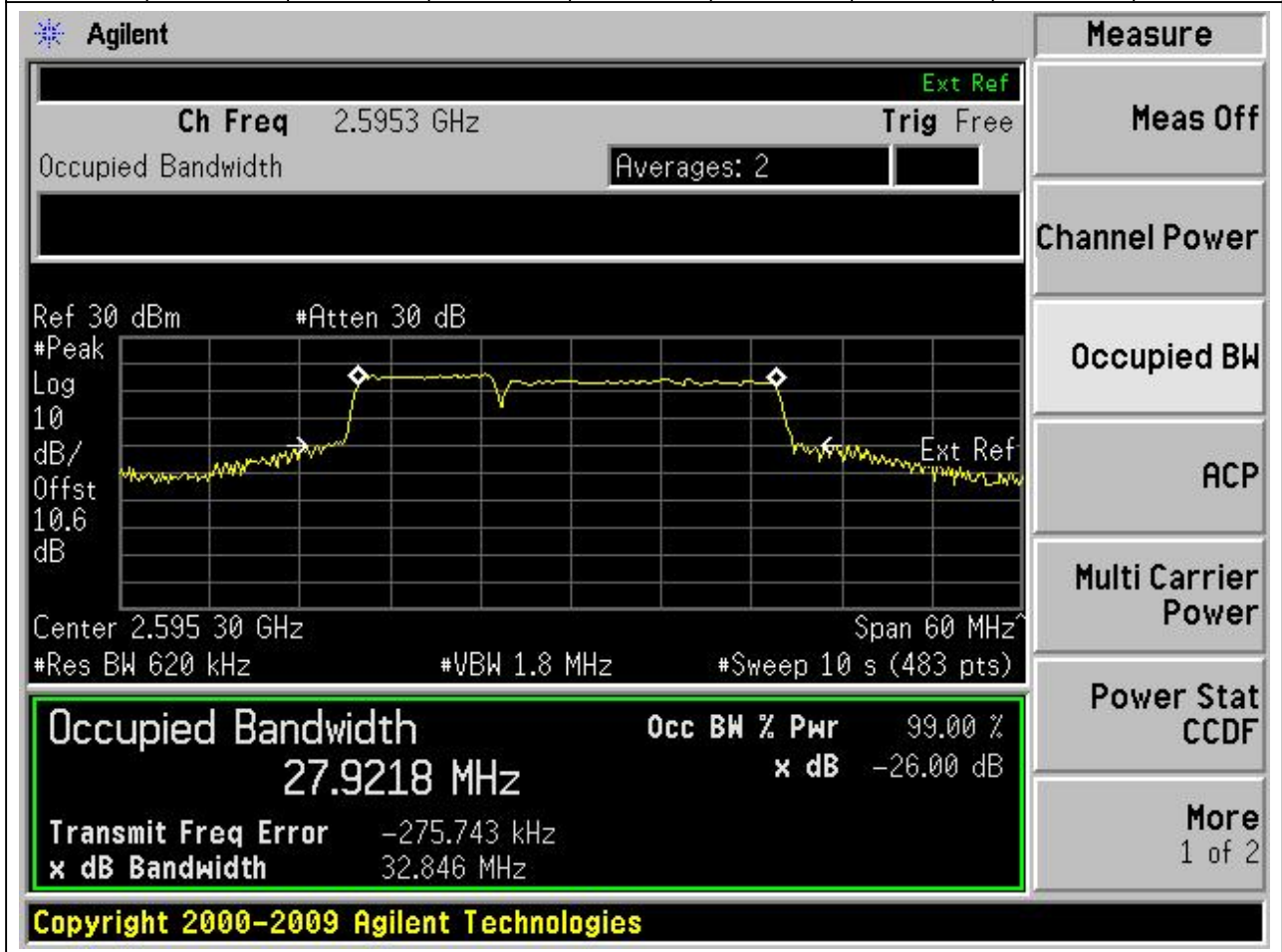
**23.4 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:4,
Channel:40615|40732, Bandwidth:20|5MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2594.6	99	26	0.51	Peak	22.94	24.21	25	Pass



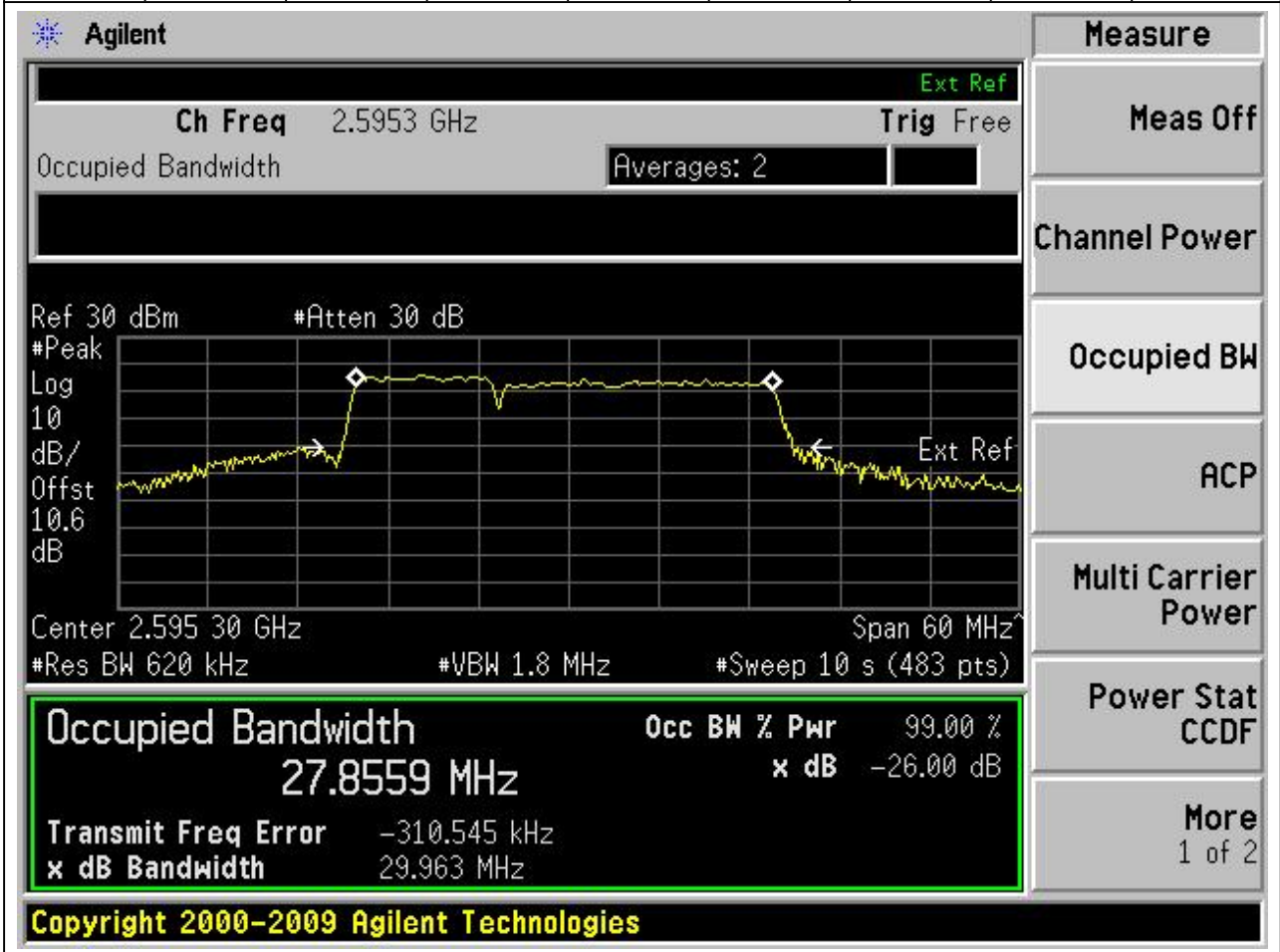
**23.5 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:5,
Channel:40546|40690, Bandwidth:10|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595.3	99	26	0.62	Peak	27.92	32.85	30	Pass

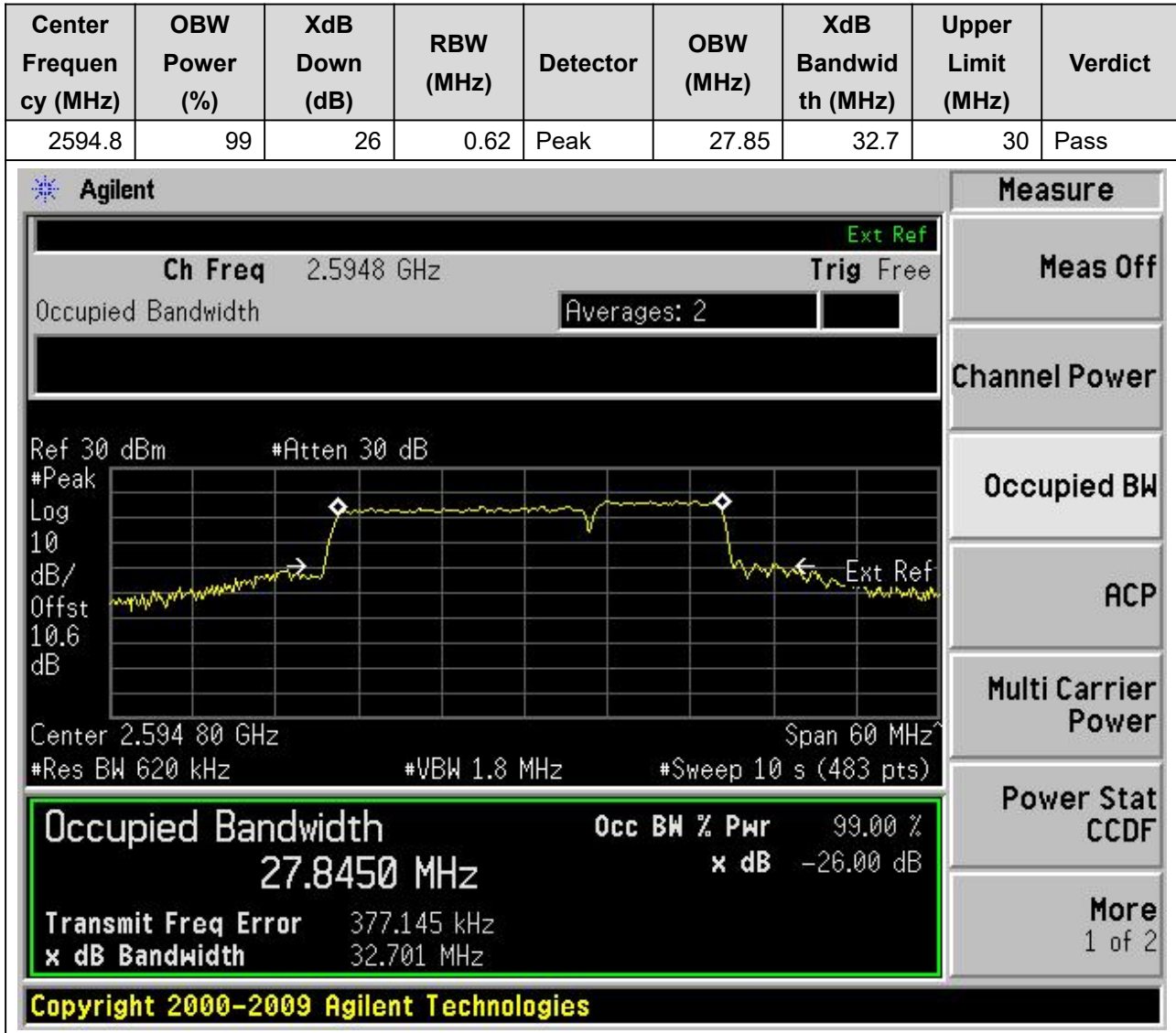


**23.6 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:6,
Channel:40546|40690, Bandwidth:10|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
2595.3	99	26	0.62	Peak	27.86	29.96	30	Pass

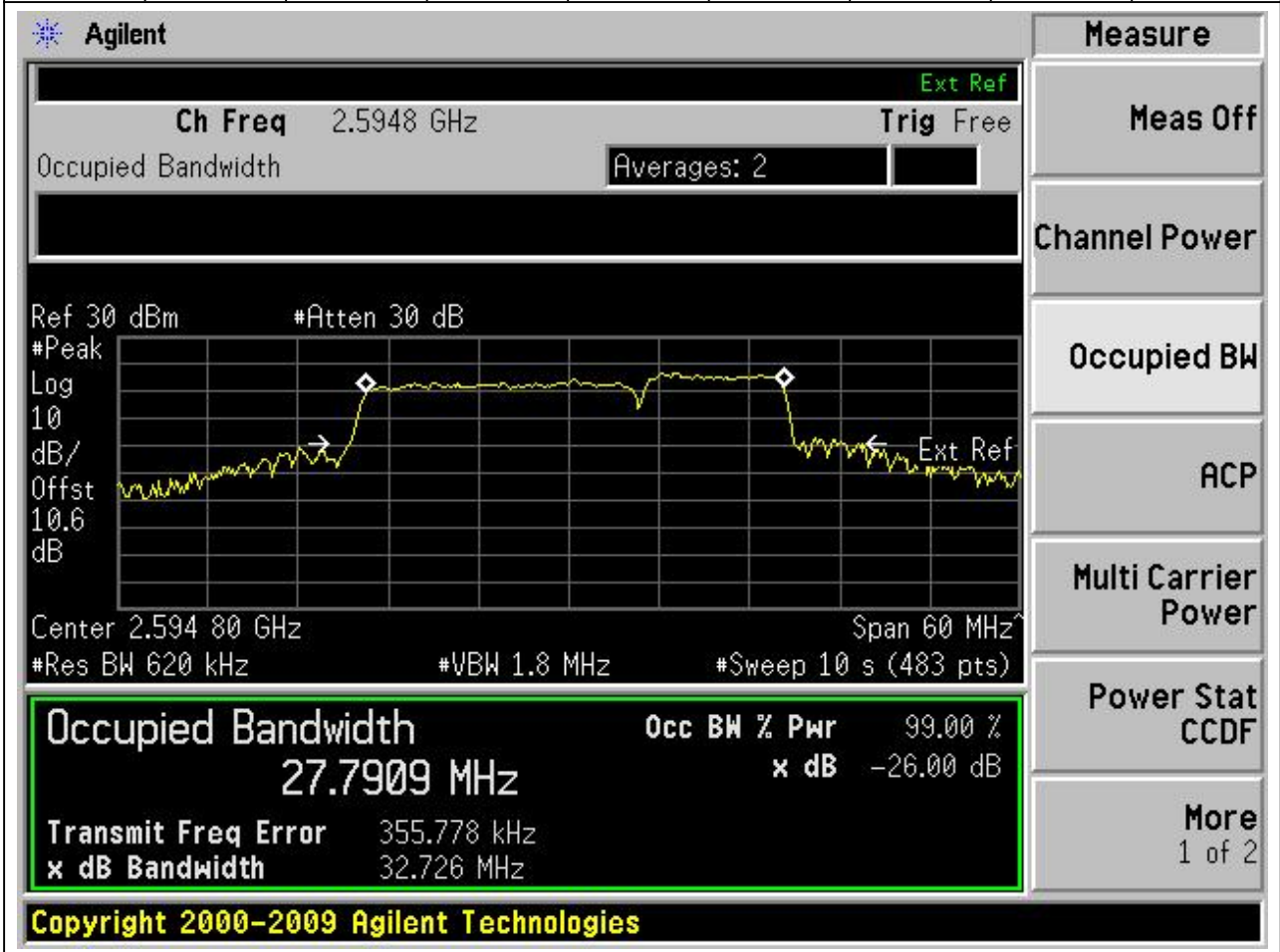


**23.7 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:7,
Channel:40591|40735, Bandwidth:20|10MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



**23.8 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:8,
Channel:40591|40735, Bandwidth:20|10MHz, Modulation:16QAM, 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
2594.8	99	26	0.62	Peak	27.79	32.73	30	Pass



**23.9 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:9,
Channel:40565|40715, 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	31.48	30	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 60 MHz

#Res BW 620 kHz #VBW 1.8 MHz #Sweep 10 s (483 pts)

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

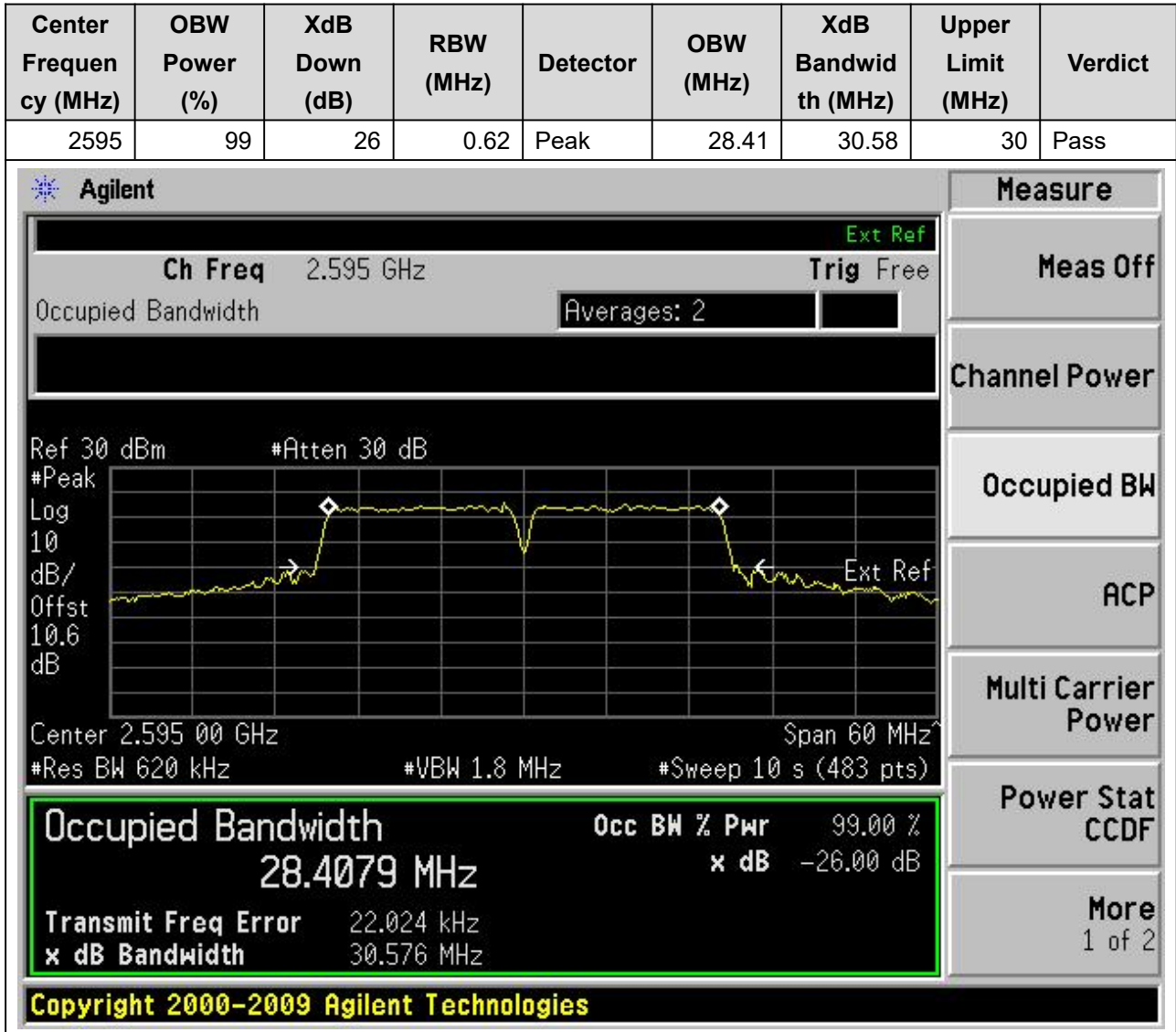
Power Stat CCDF

More
1 of 2

Occupied Bandwidth	Occ BW % Pwr 99.00 %
28.4229 MHz	x dB -26.00 dB
Transmit Freq Error -6.638 kHz	
x dB Bandwidth 31.481 MHz	

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**23.10 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:10,
Channel:40565|40715, Bandwidth:15|15MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



23.11 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:11, Channel:40543|40714, Bandwidth:15|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
2595.1	99	26	0.68	Peak	32.7	35.18	35	Pass

Agilent
Measure

Ch Freq 2.5951 GHz
Ext Ref

Occupied Bandwidth
Averages: 2

Trig Free

Ref 30 dBm #Atten 30 dB

Center 2.5951 GHz Span 70 MHz
 #Res BW 680 kHz #VBW 2 MHz #Sweep 10 s (514 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
32.7022 MHz	x dB -26.00 dB
Transmit Freq Error -128.950 kHz	
x dB Bandwidth 35.184 MHz	

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Meas Off

Channel Power

Occupied BW

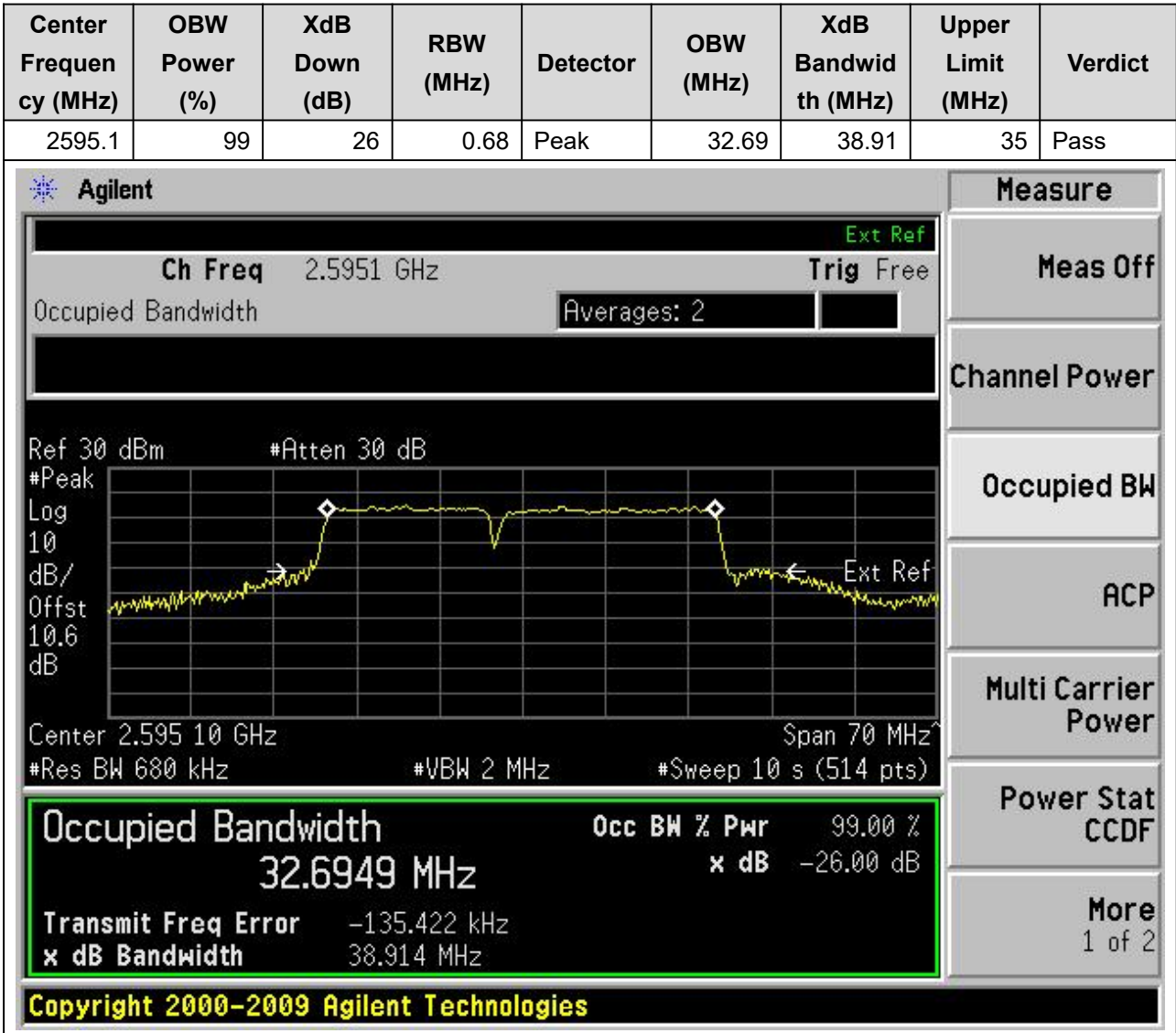
ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

**23.12 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:12,
Channel:40543|40714, Bandwidth:15|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



23.13 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:13, Channel:40566|40737, Bandwidth:20|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
2594.9	99	26	0.68	Peak	32.69	35.75	35	Pass

Occupied Bandwidth 32.6899 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 188.944 kHz
x dB Bandwidth 35.751 MHz

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**23.14 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:14,
Channel:40566|40737, Bandwidth:20|15MHz, Modulation:16QAM, 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
2594.9	99	26	0.68	Peak	32.74	34.79	35	Pass

Agilent Measure

Ch Freq 2.5949 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 10.6 dB

Center 2.5949 GHz Span 70 MHz

#Res BW 680 kHz #VBW 2 MHz #Sweep 10 s (514 pts)

Occupied Bandwidth 32.7393 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 234.930 kHz
x dB Bandwidth 34.792 MHz

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Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More 1 of 2

**23.15 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:15,
Channel:40541|40739, 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
2595	99	26	0.82	Peak	37.76	41.9	40	Pass

Agilent

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

Ch Freq 2.595 GHz
Ext Ref

Occupied Bandwidth
Averages: 2

Ref 30 dBm #Atten 30 dB

Center 2.595 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 %
37.7646 MHz	x dB -26.00 dB
Transmit Freq Error 69.693 kHz	
x dB Bandwidth 41.900 MHz	

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**23.16 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:16,
Channel:40541|40739, Bandwidth:20|20MHz, Modulation:16QAM, 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	0.82	Peak	37.75	45.13	40	Pass

Agilent

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

Ch Freq 2.595 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 30 dBm #Atten 30 dB

Center 2.595 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 %

37.7546 MHz x dB -26.00 dB

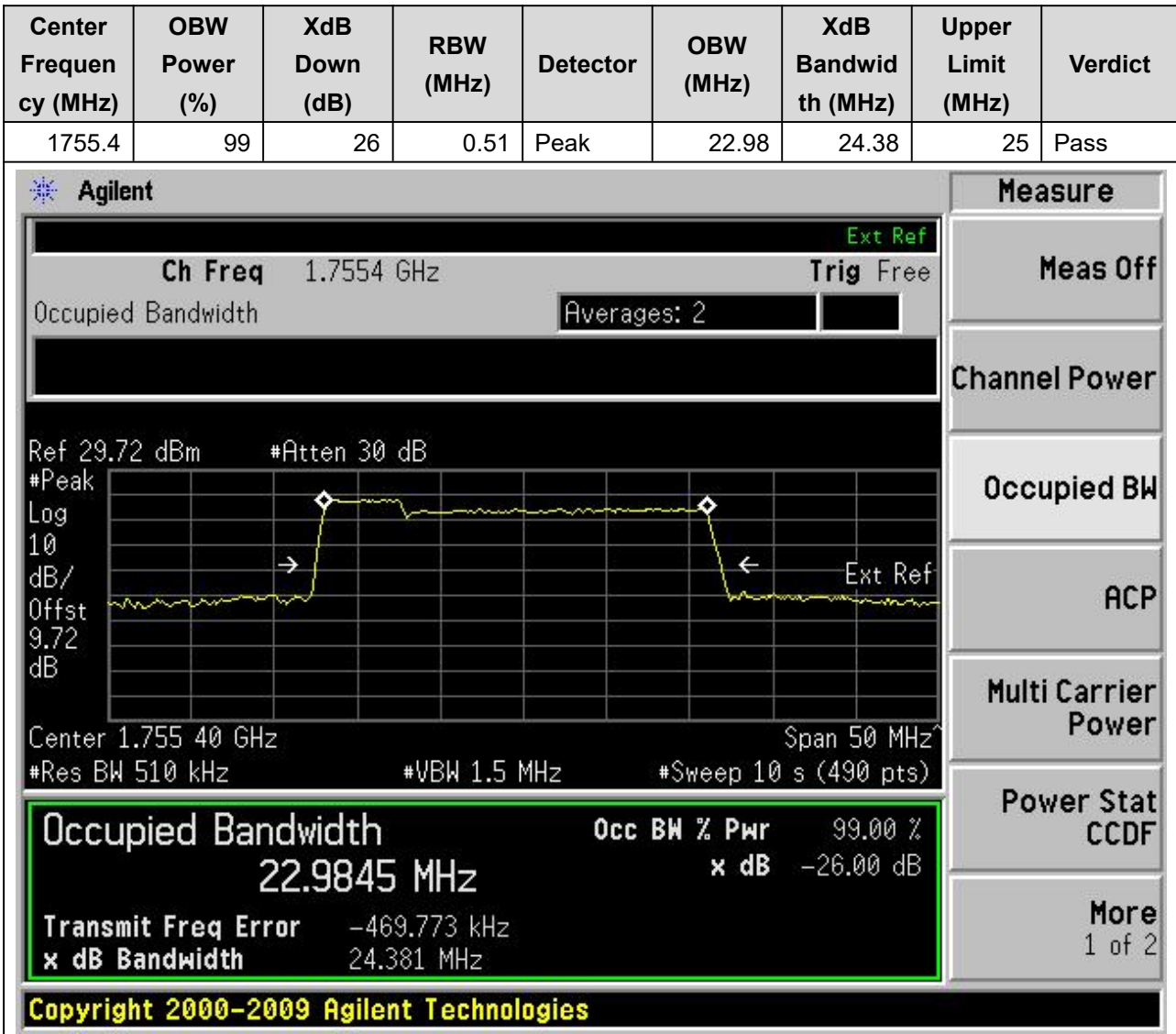
Transmit Freq Error 61.572 kHz

x dB Bandwidth 45.126 MHz

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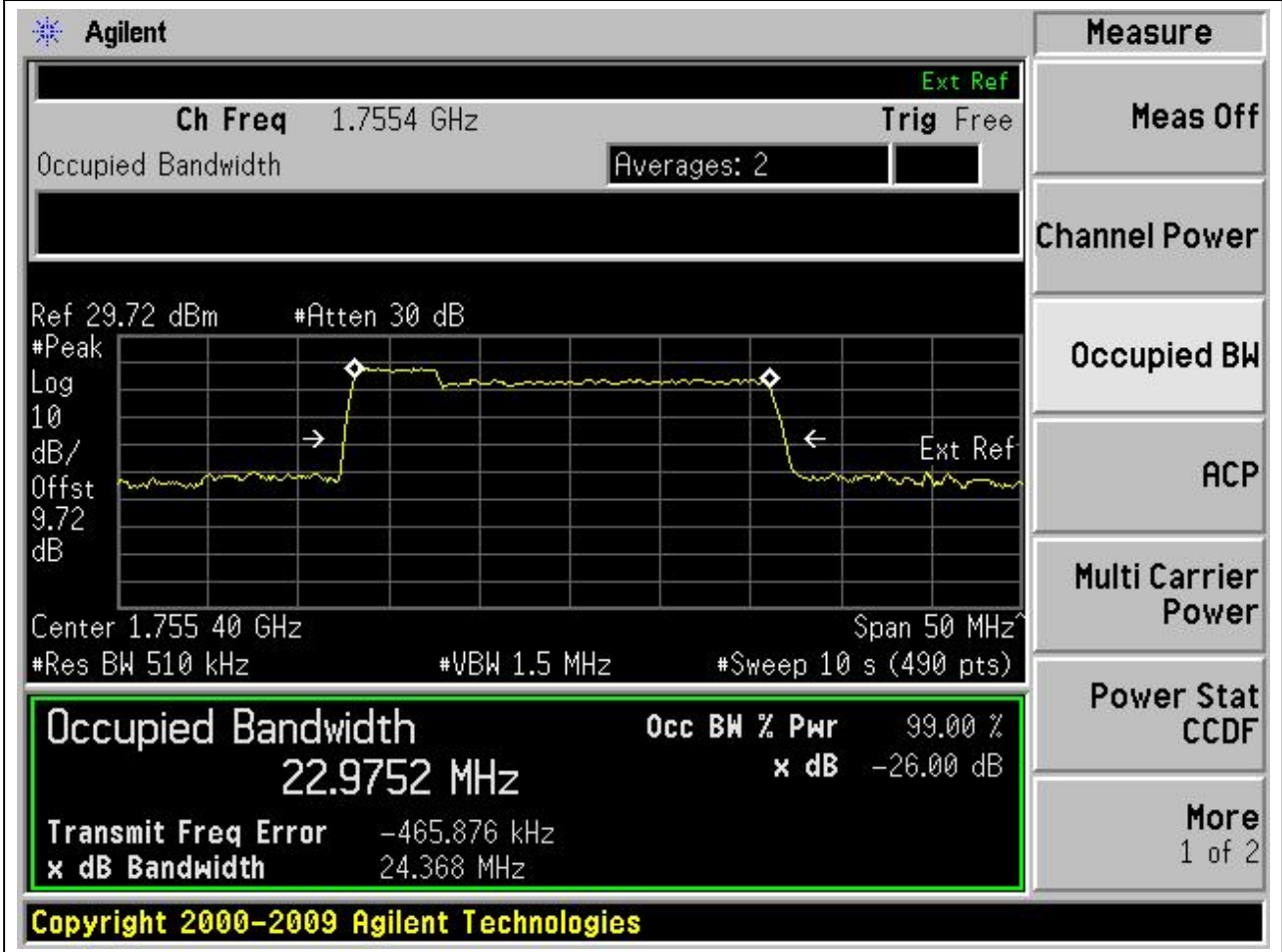
24. CA_66C

24.1 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:1,
Channel:132330|132447, Bandwidth:5|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)



**24.2 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:2,
Channel:132330|132447, Bandwidth:5|20MHz, Modulation:16QAM, 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
1755.4	99	26	0.51	Peak	22.98	24.37	25	Pass



**24.3 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:3,
Channel:132397|132514, Bandwidth:20|5MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

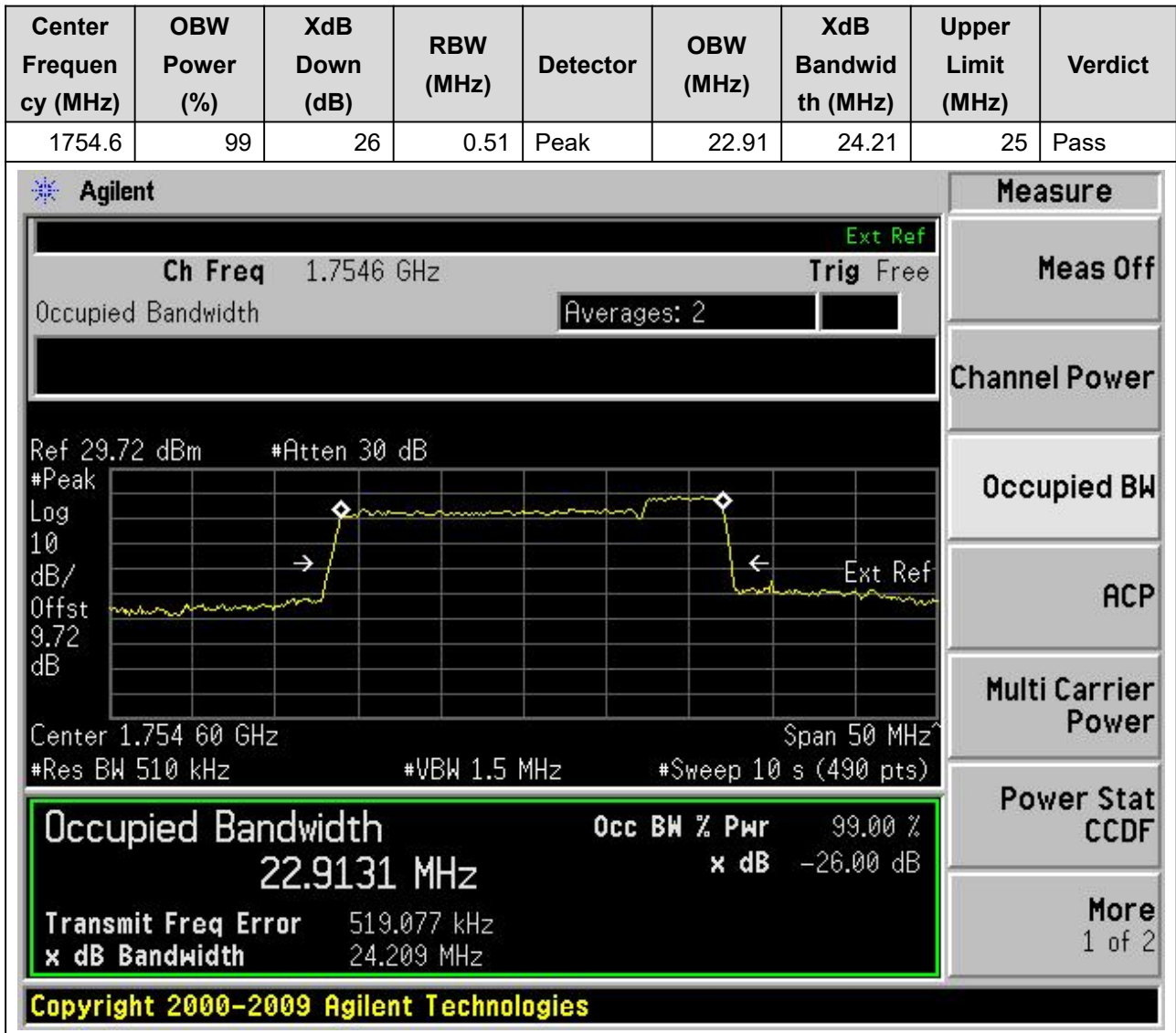
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1754.6	99	26	0.51	Peak	22.99	24.33	25	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a spectrum plot with a yellow trace. The center frequency is 1.7546 GHz. The occupied bandwidth is measured as 22.9926 MHz, which is 99.00% of the channel bandwidth. The XdB bandwidth is 24.334 MHz. The XdB down is -26.00 dB. The transmit frequency error is 507.485 kHz. The interface includes various measurement controls and a 'Measure' menu on the right side.

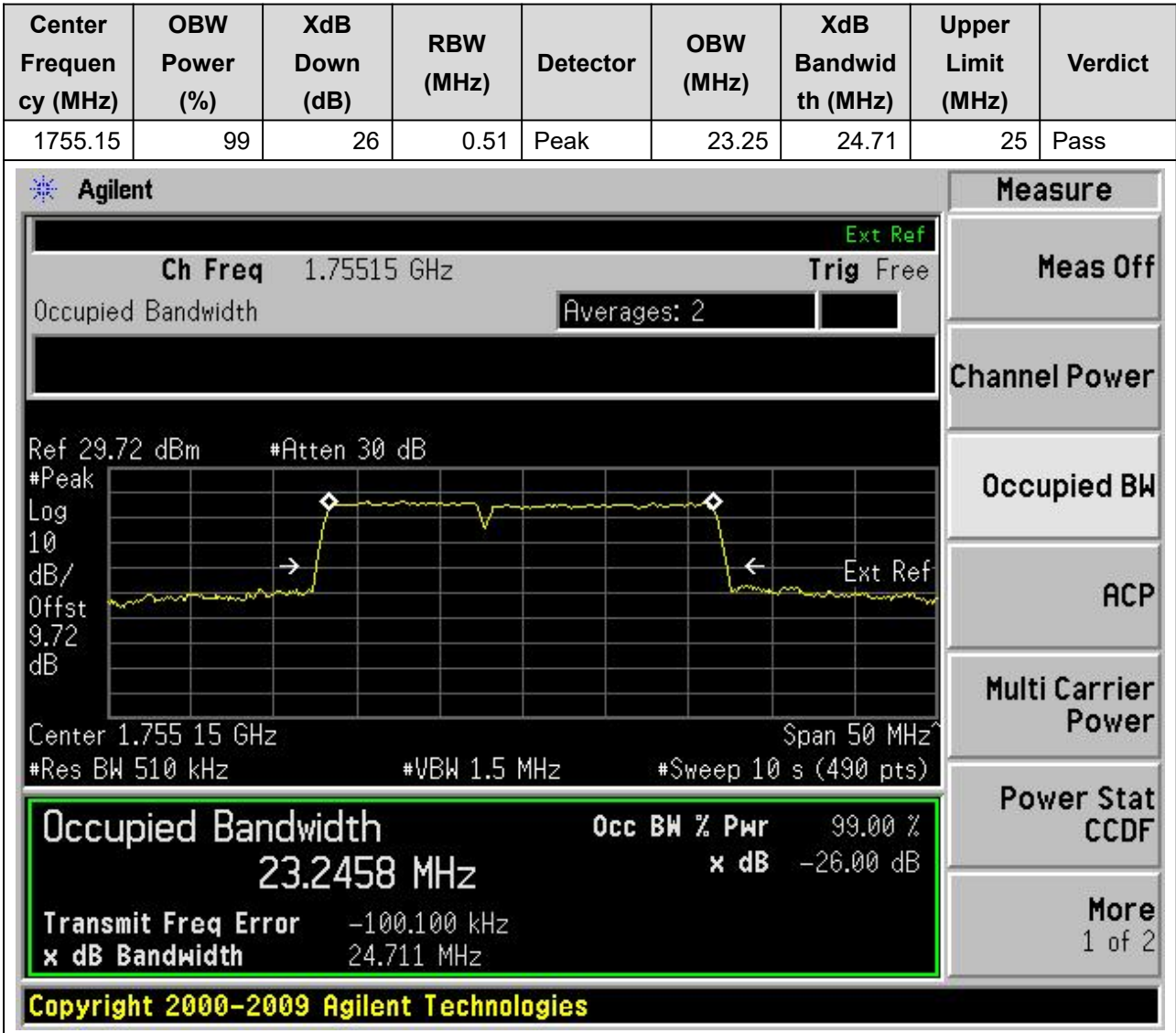
Occupied Bandwidth	Occ BW % Pwr	99.00 %
22.9926 MHz	x dB	-26.00 dB
Transmit Freq Error	507.485 kHz	
x dB Bandwidth	24.334 MHz	

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**24.4 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:4,
Channel:132397|132514, Bandwidth:20|5MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

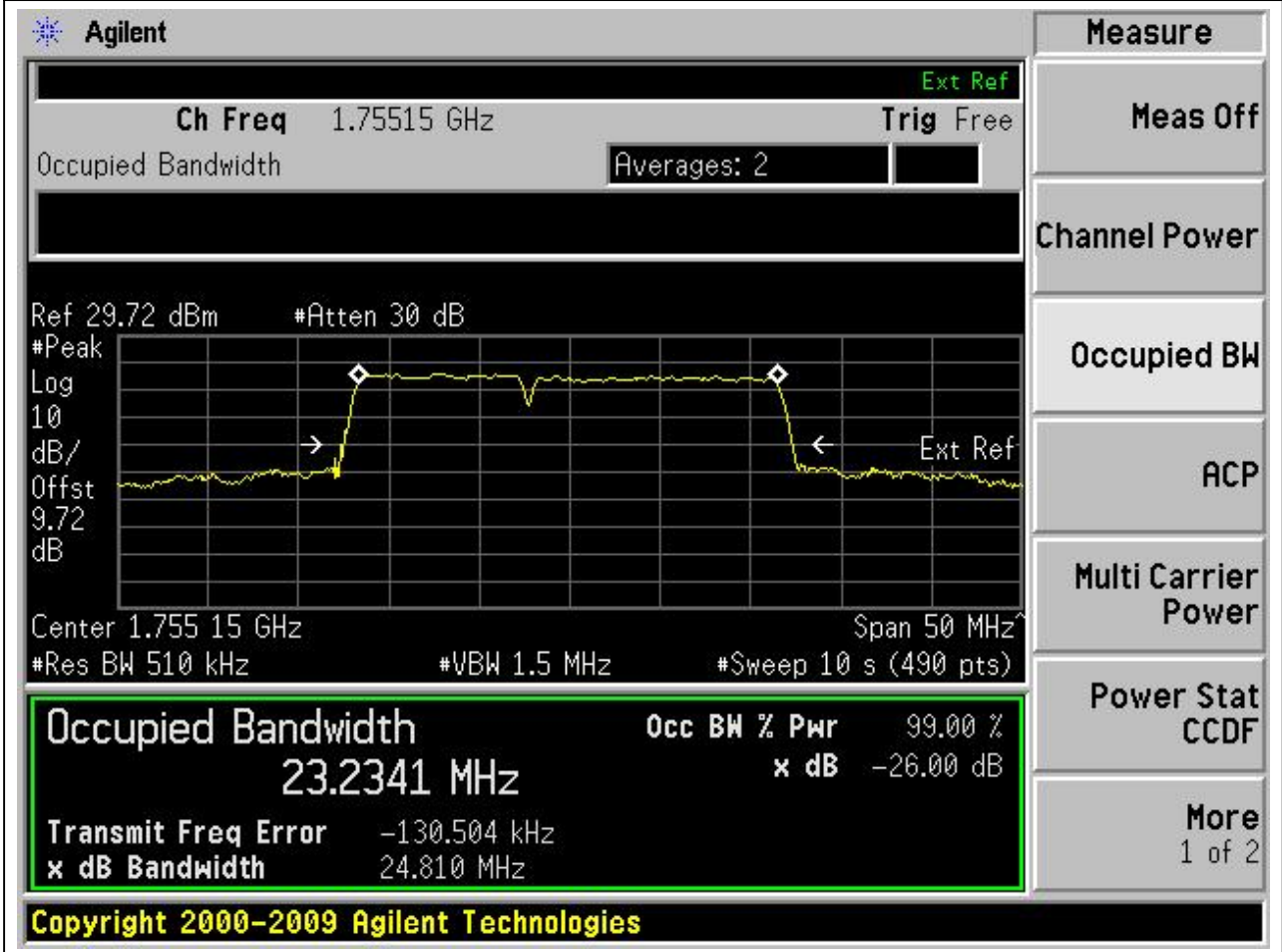


**24.5 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:5,
Channel:132351|132471, Bandwidth:10|15MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



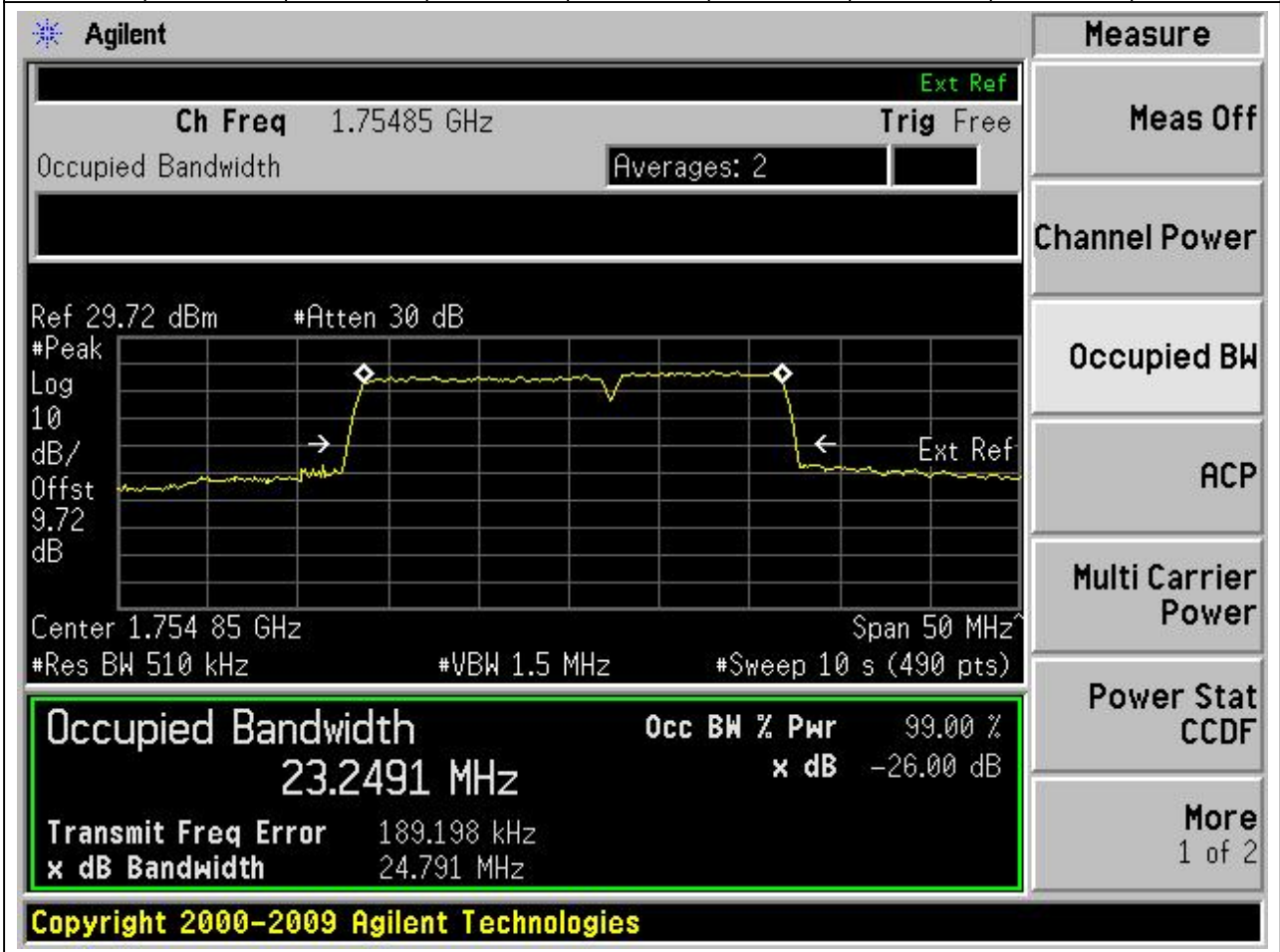
**24.6 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:6,
Channel:132351|132471, Bandwidth:10|15MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1755.15	99	26	0.51	Peak	23.23	24.81	25	Pass

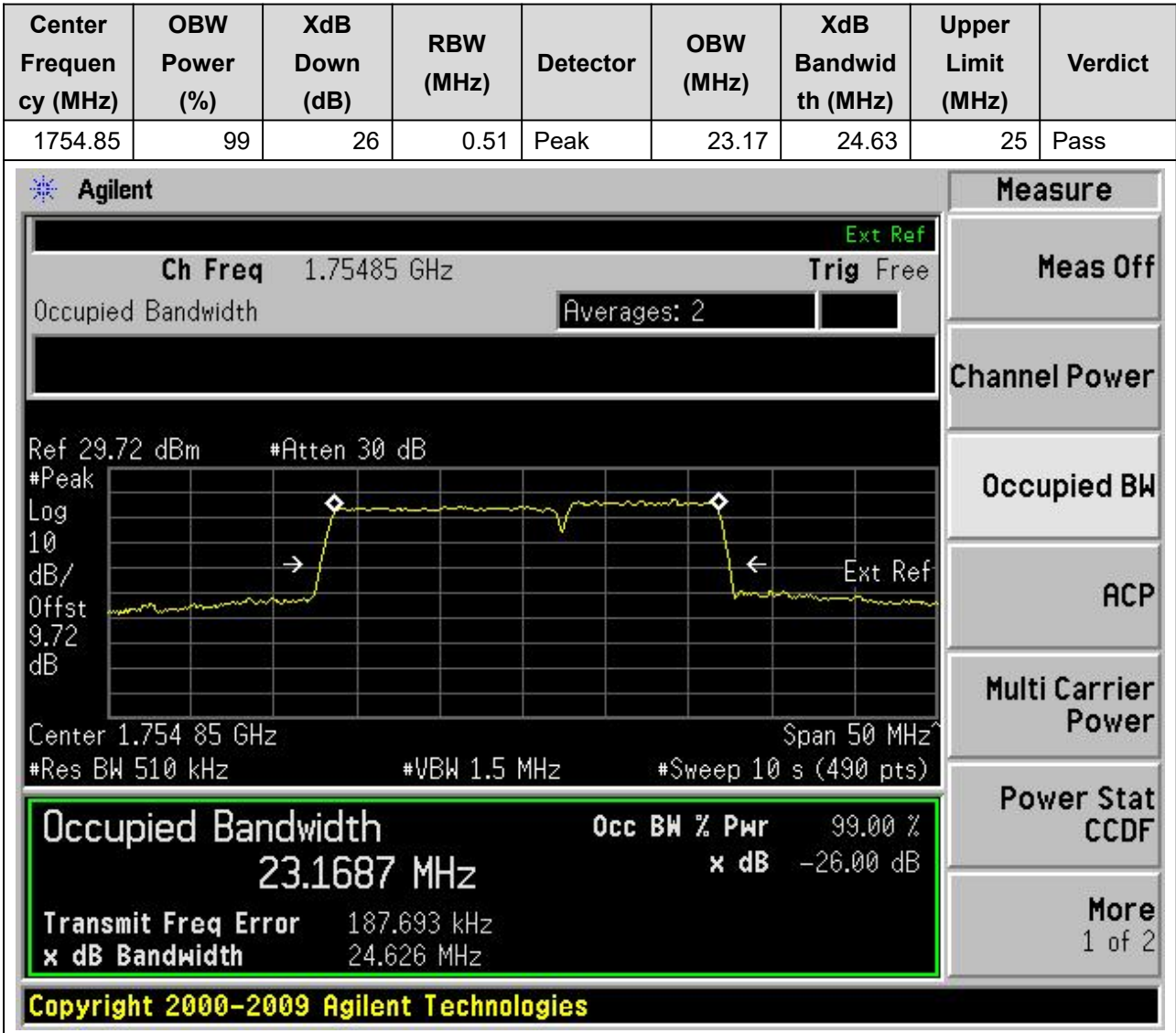


**24.7 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:7,
Channel:132373|132493, Bandwidth:15|10MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1754.85	99	26	0.51	Peak	23.25	24.79	25	Pass



**24.8 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:8,
Channel:132373|132493, Bandwidth:15|10MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



**24.9 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:9,
Channel:132328|132472, Bandwidth:10|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

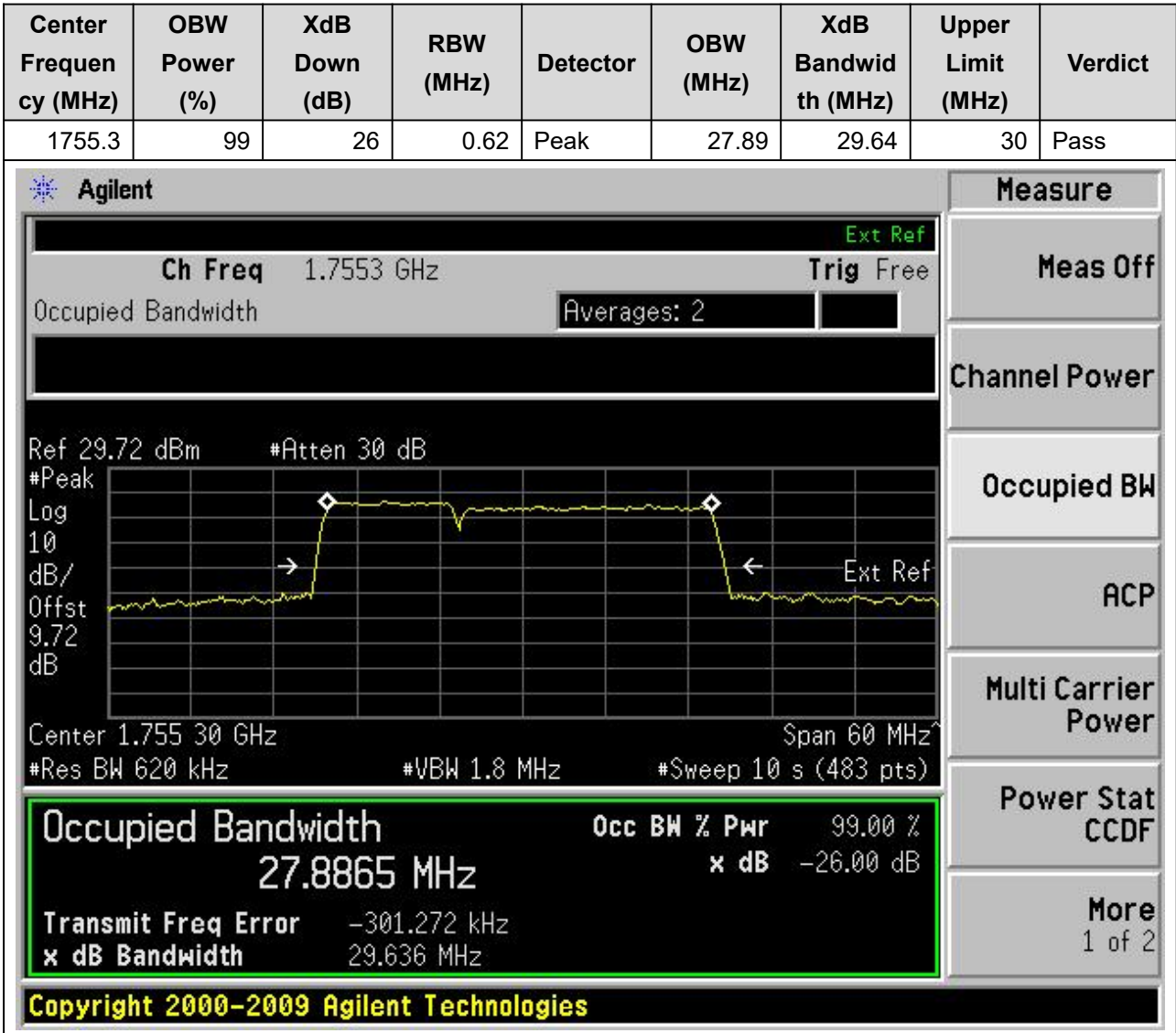
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
1755.3	99	26	0.62	Peak	27.88	29.62	30	Pass

The screenshot displays the Agilent spectrum analyzer interface. The main display shows a signal spectrum with a yellow trace. The central frequency is 1.7553 GHz. The occupied bandwidth is measured as 27.8786 MHz, which is 99.00% of the 28 MHz channel bandwidth. The XdB down is -26.00 dB. The transmit frequency error is -270.789 kHz. The x dB bandwidth is 29.622 MHz. The interface includes various measurement controls and a 'Measure' menu on the right side.

Occupied Bandwidth	Occ BW % Pwr	x dB
27.8786 MHz	99.00 %	-26.00 dB

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**24.10 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:10,
Channel:132328|132472, Bandwidth:10|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



24.11 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:11, Channel:132373|132517, Bandwidth:20|10MHz, 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
1754.8	99	26	0.62	Peak	27.85	29.65	30	Pass

Agilent

Ext Ref

Ch Freq 1.7548 GHz Trig Free

Occupied Bandwidth Averages: 2

Measure

Ref 29.72 dBm #Atten 30 dB

Center 1.7548 GHz Span 60 MHz
 #Res BW 620 kHz #VBW 1.8 MHz #Sweep 10 s (483 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
27.8541 MHz	x dB -26.00 dB
Transmit Freq Error 346.267 kHz	
x dB Bandwidth 29.646 MHz	

Meas Off

Channel Power

Occupied BW

ACP

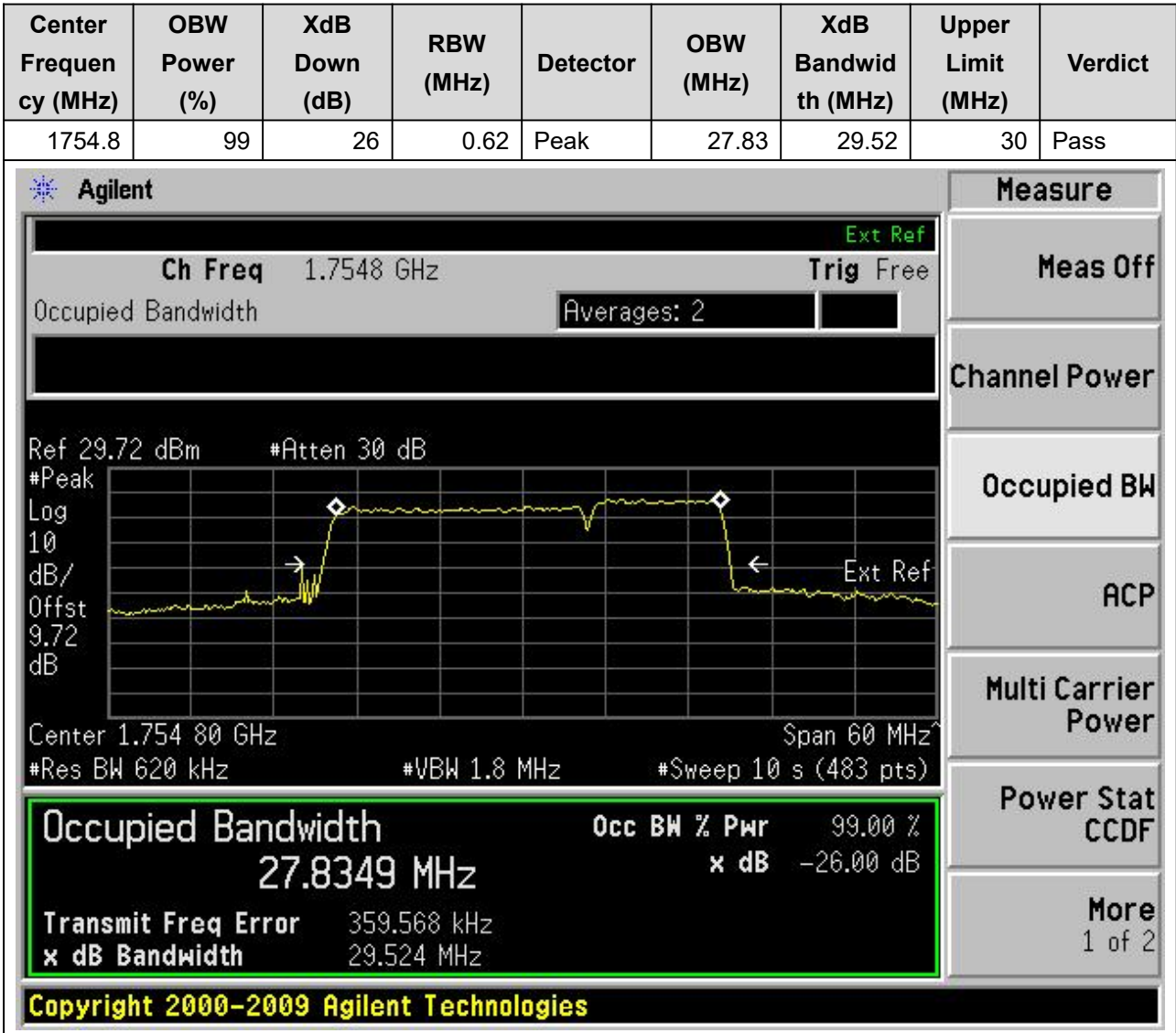
Multi Carrier Power

Power Stat CCDF

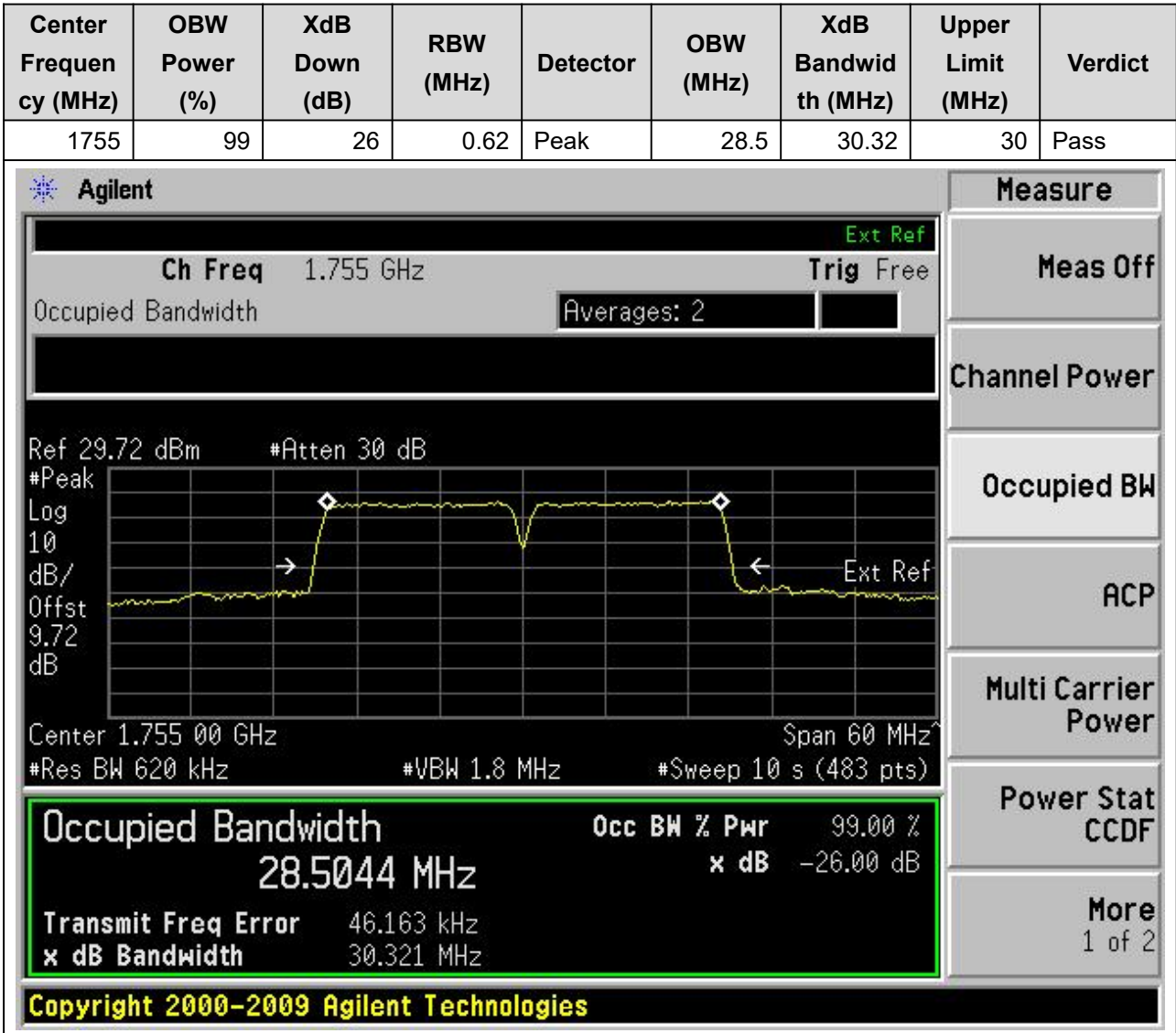
More 1 of 2

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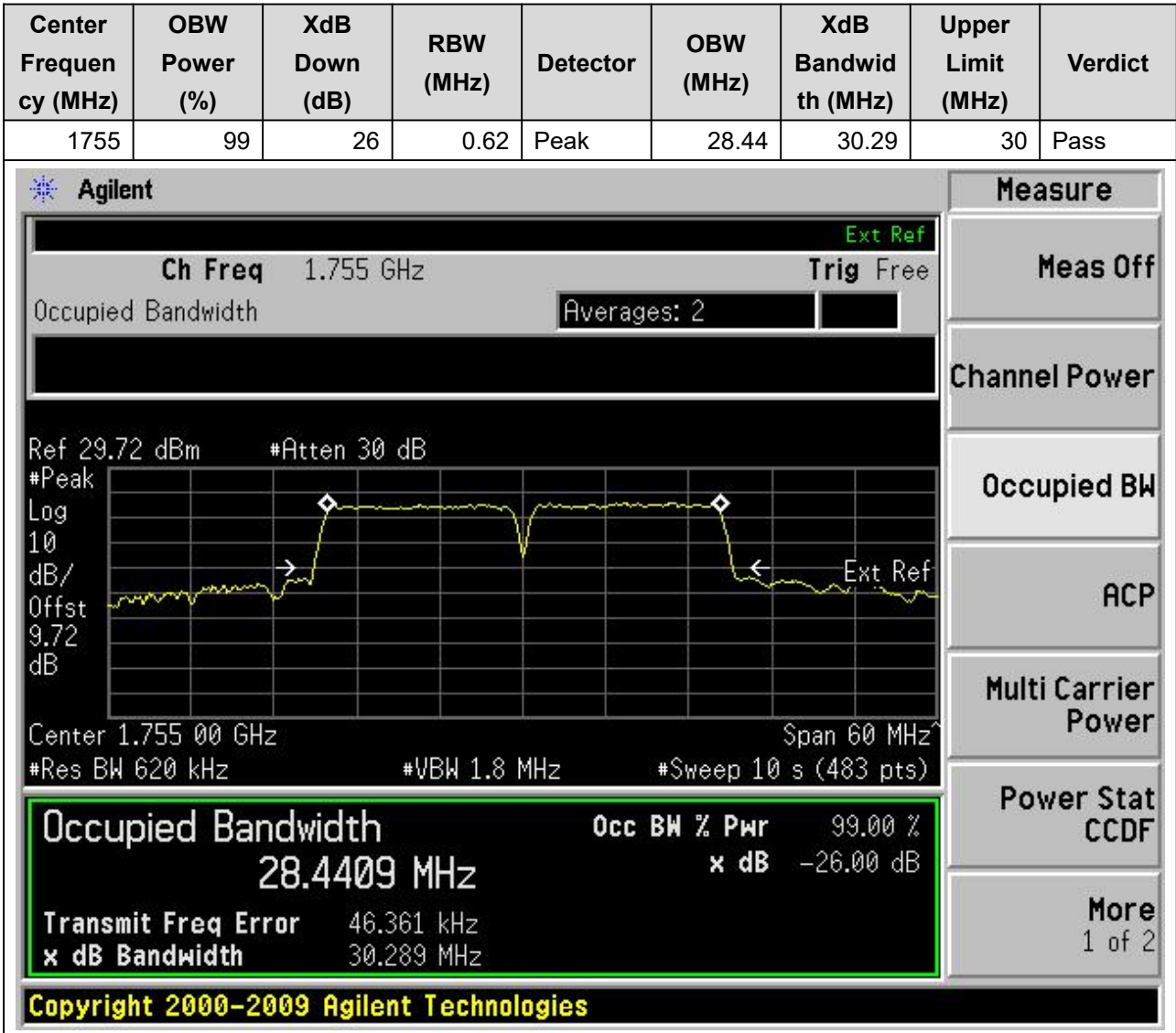
**24.12 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:12,
Channel:132373|132517, Bandwidth:20|10MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



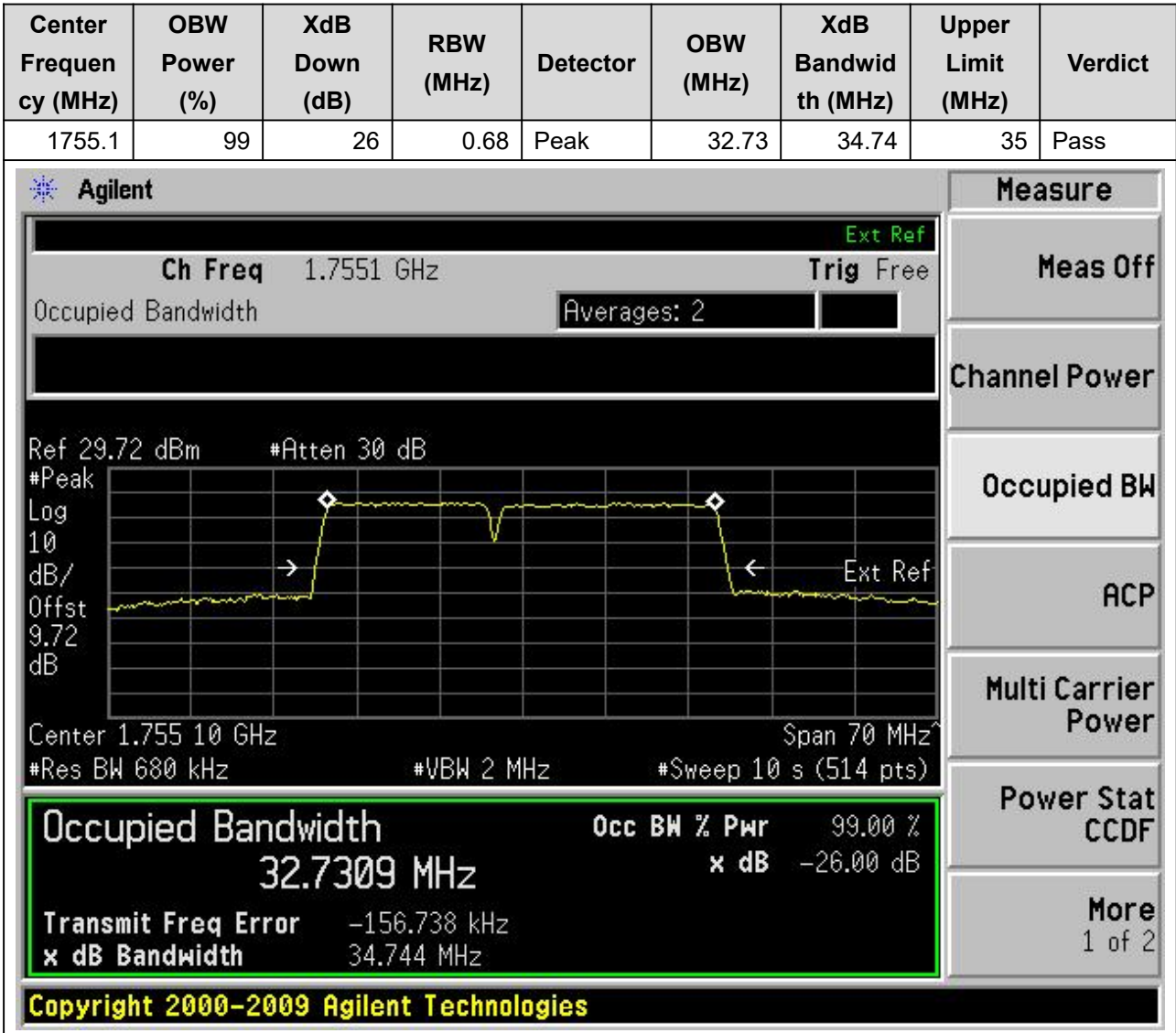
**24.13 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:13,
Channel:132347|132497, Bandwidth:15|15MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



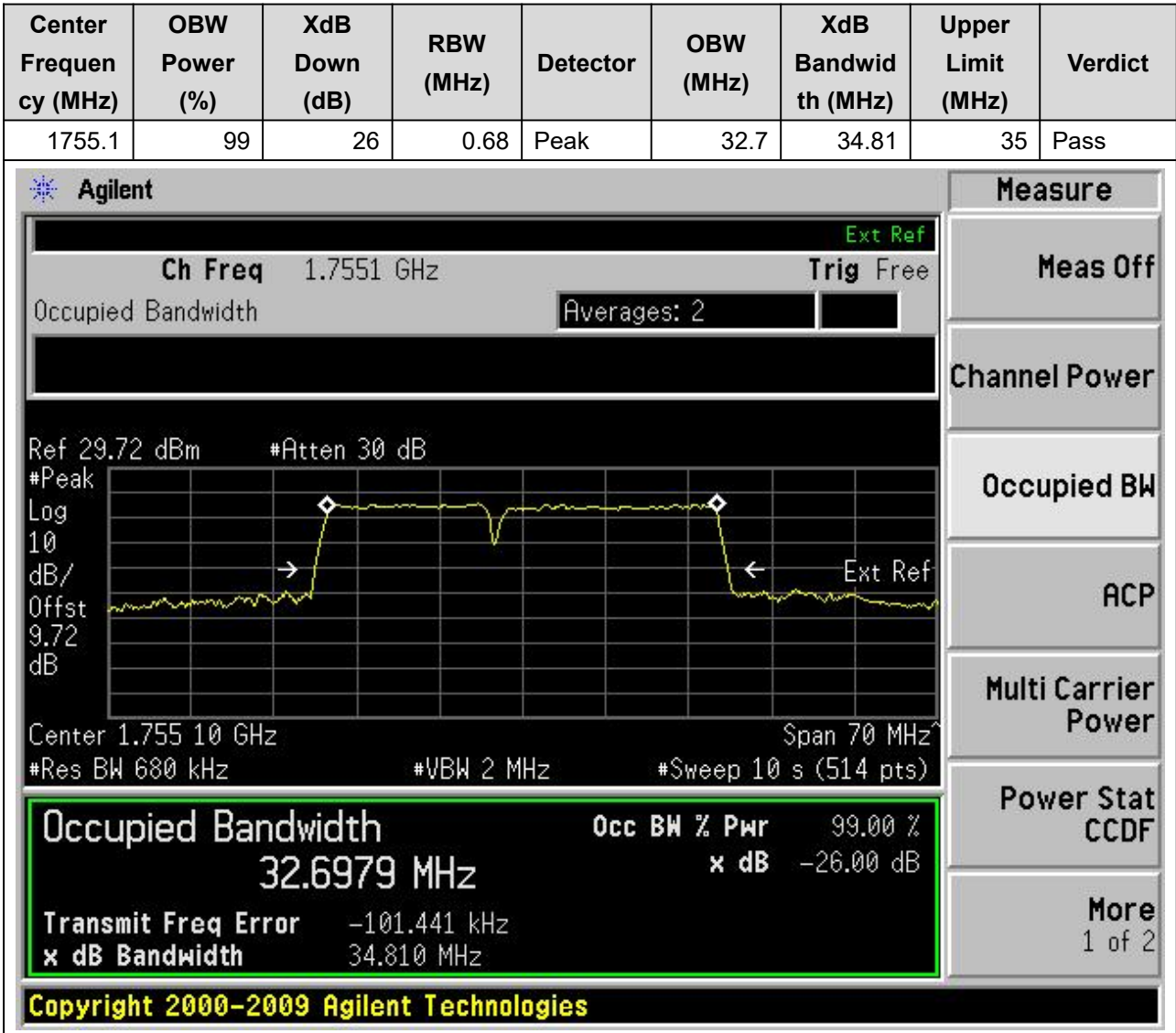
**24.14 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:14,
Channel:132347|132497, Bandwidth:15|15MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



**24.15 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:15,
Channel:132325|132496, Bandwidth:15|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



**24.16 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:16,
Channel:132325|132496, Bandwidth:15|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



**24.17 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:17,
Channel:132348|132519, Bandwidth:20|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
1754.9	99	26	0.68	Peak	32.78	34.9	35	Pass

Agilent

Ch Freq 1.7549 GHz Trig Free

Occupied Bandwidth Averages: 2

Ref 29.72 dBm #Atten 30 dB

#Peak Log 10 dB/ Offst 9.72 dB

Center 1.7549 GHz Span 70 MHz

#Res BW 680 kHz #VBW 2 MHz #Sweep 10 s (514 pts)

Occupied Bandwidth 32.7801 MHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error 188.103 kHz

x dB Bandwidth 34.900 MHz

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Measure

Meas Off

Channel Power

Occupied BW

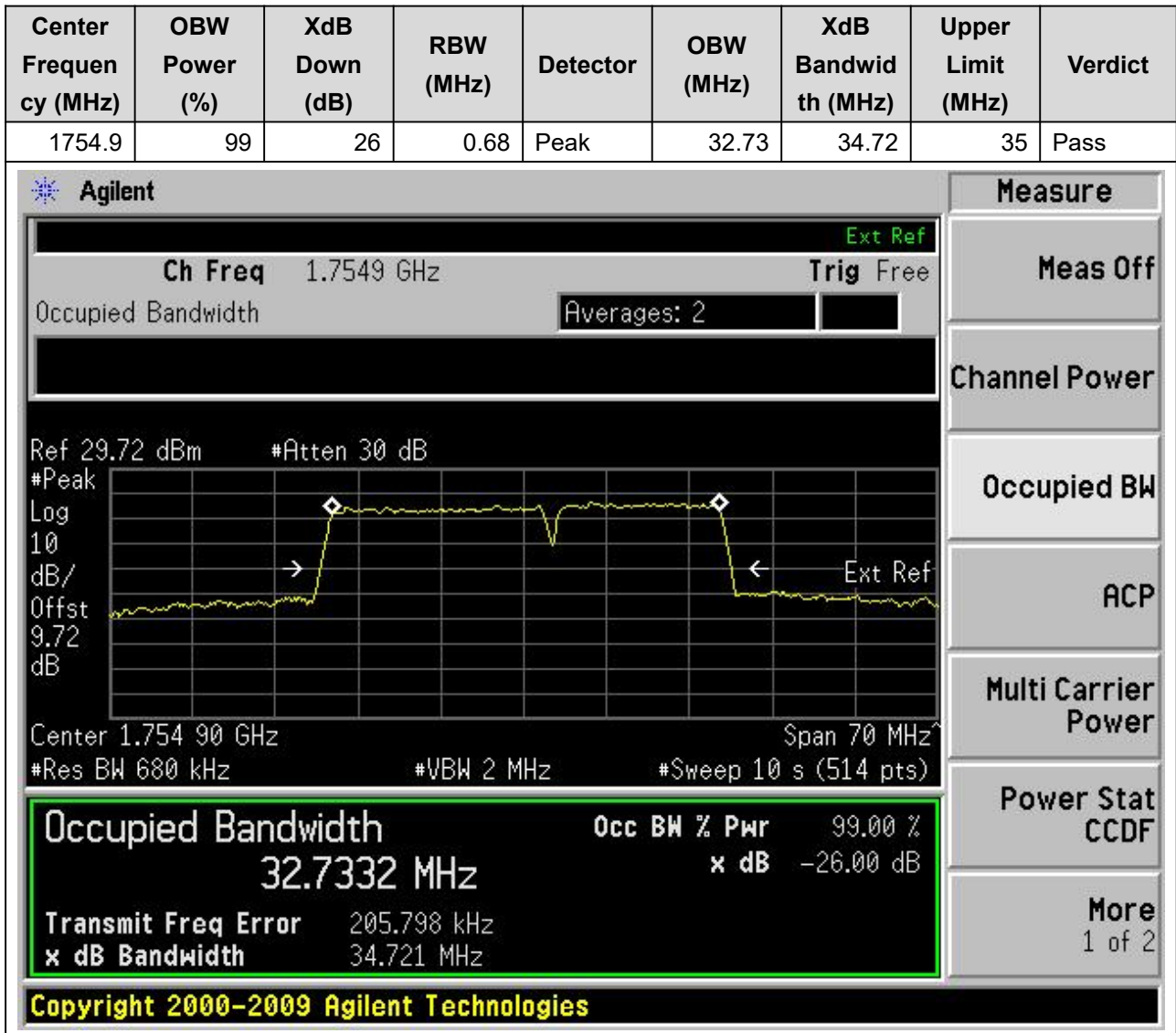
ACP

Multi Carrier Power

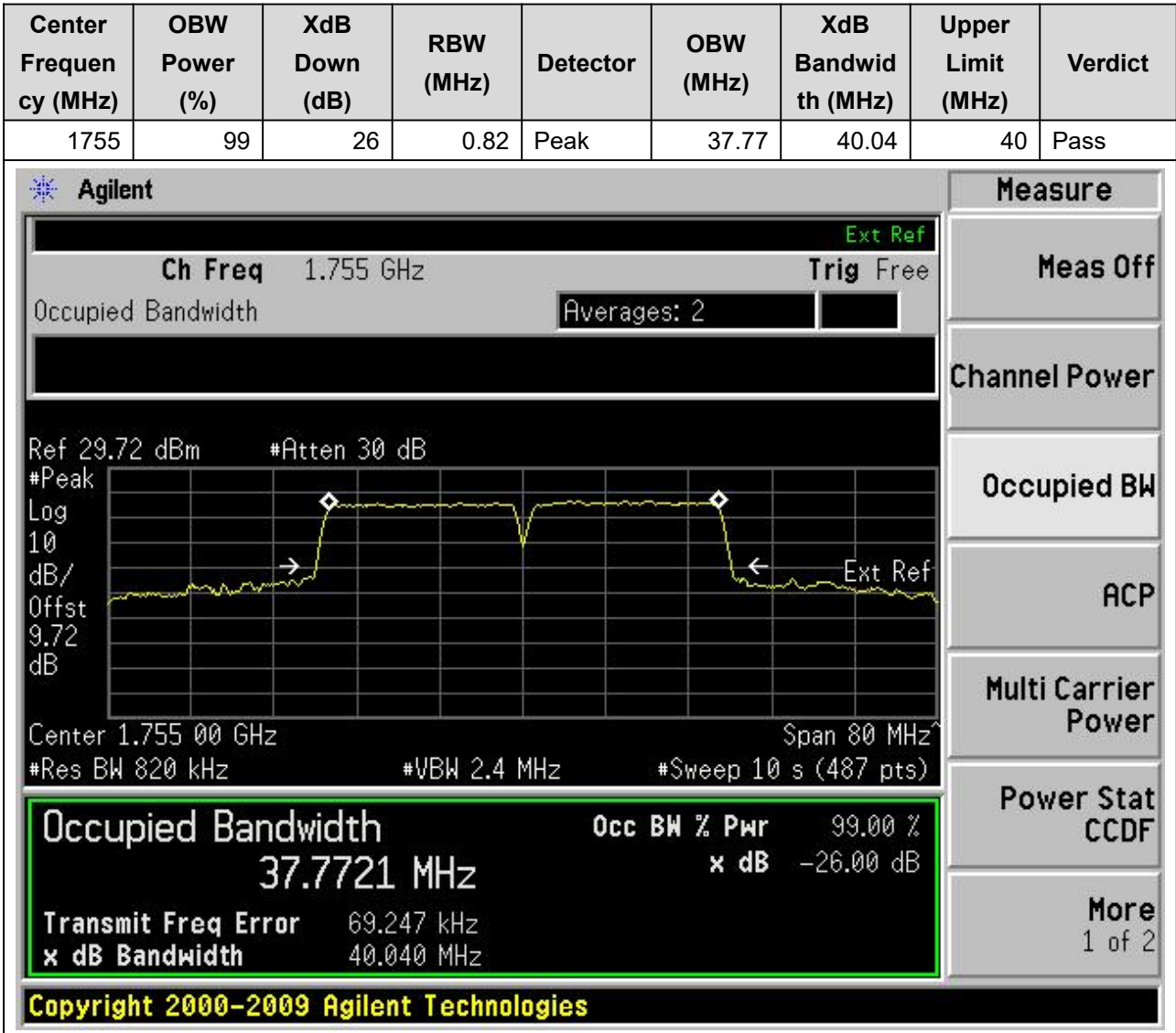
Power Stat CCDF

More 1 of 2

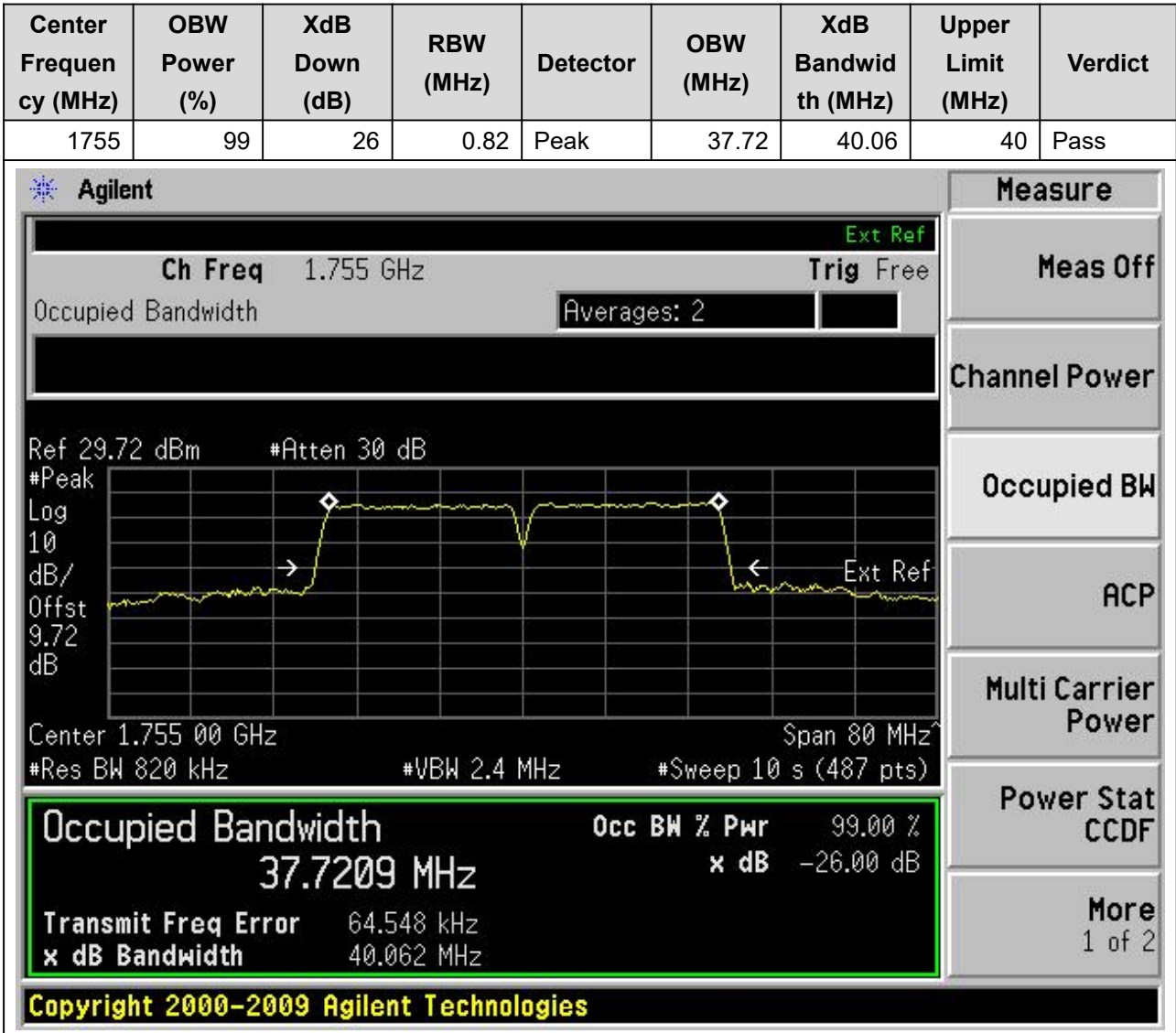
**24.18 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:18,
Channel:132348|132519, Bandwidth:20|15MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



**24.19 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:19,
Channel:132323|132521, Bandwidth:20|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



**24.20 LTE-A Occupied Bandwidth_Part22-24-27(NTNV)(Subtest:20,
Channel:132323|132521, Bandwidth:20|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



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