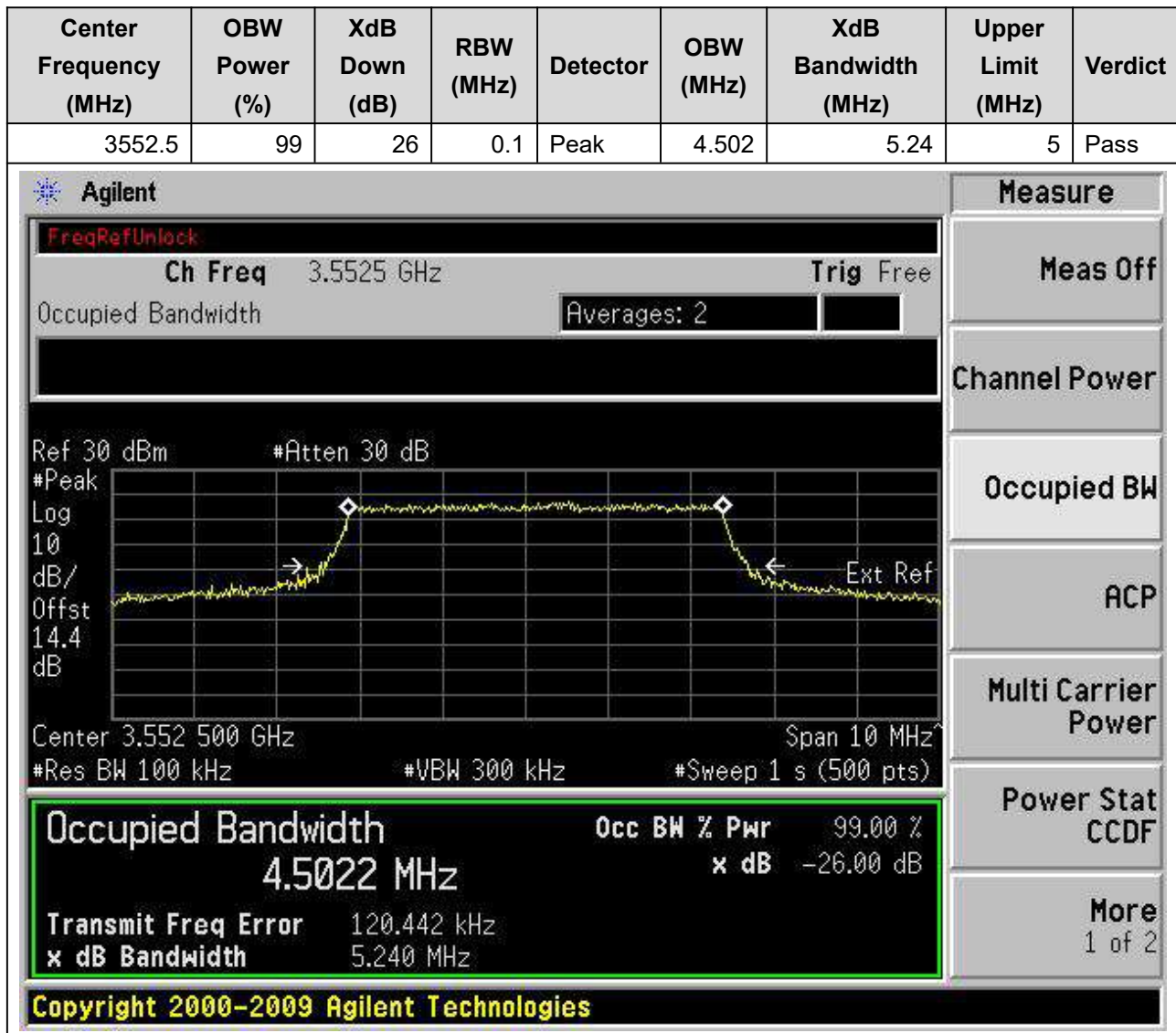


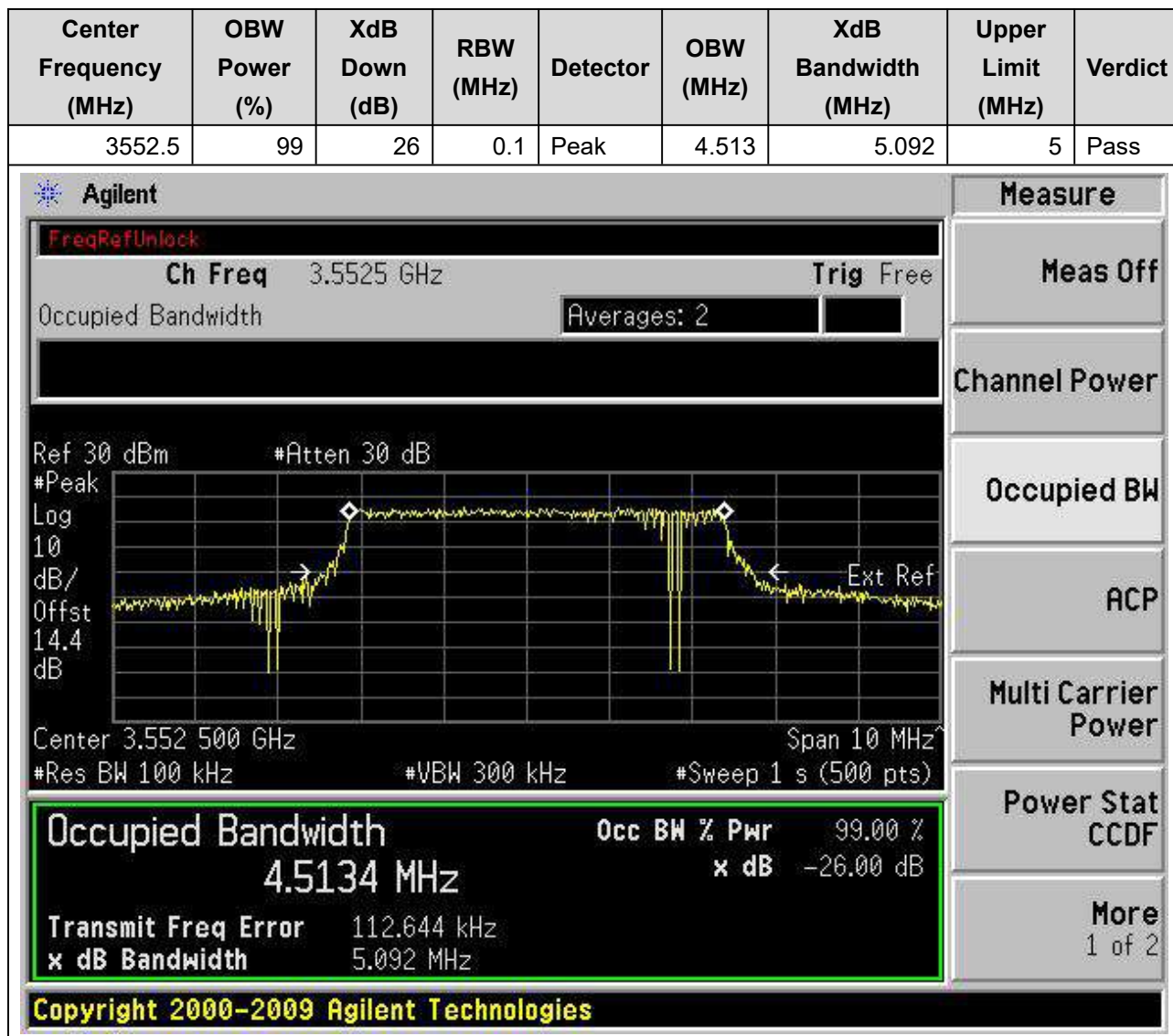
Annex A.3 Occupied Bandwidth

1. LTE_Band48

1.1 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:1, Channel:55265, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)

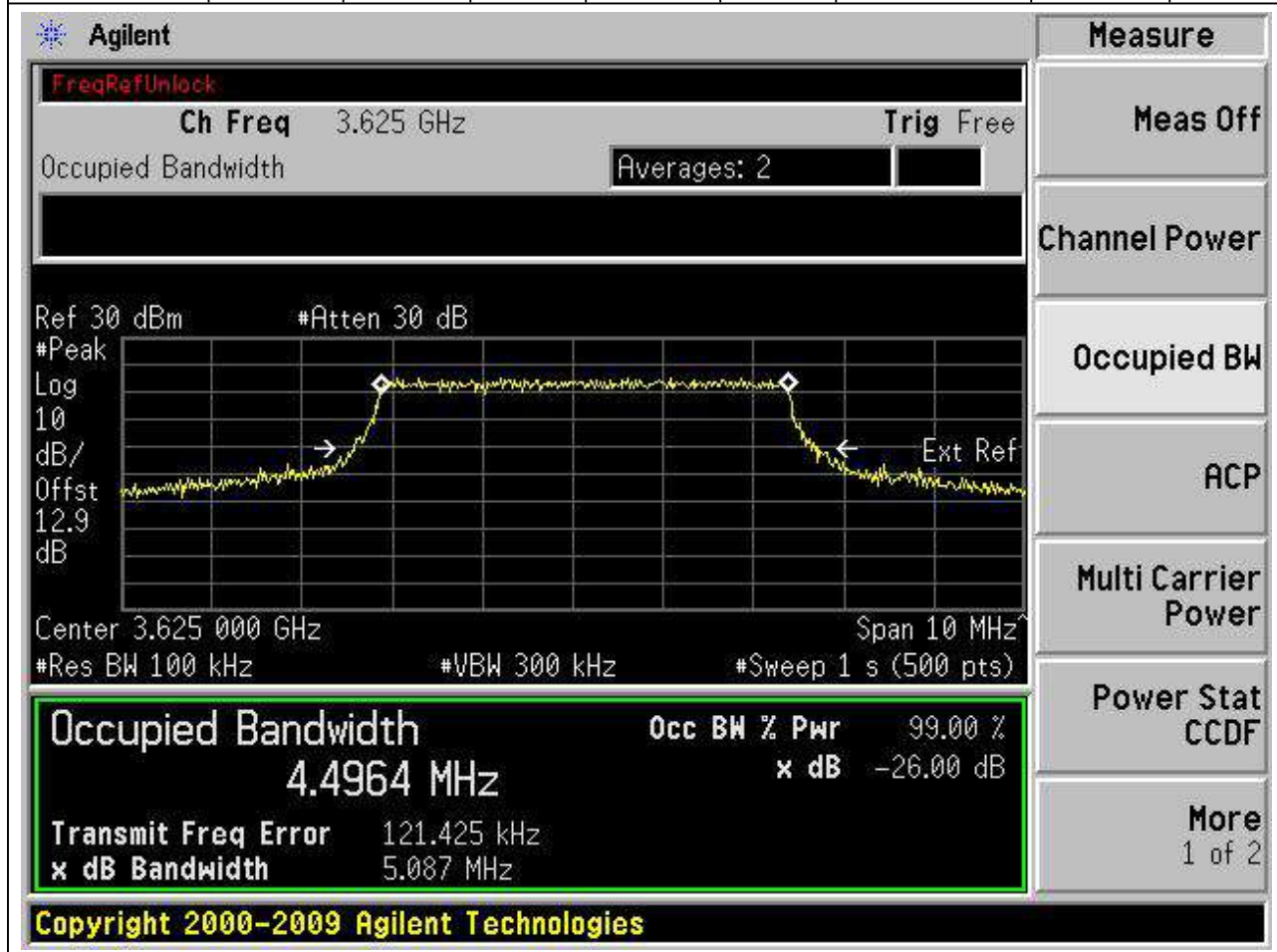


1.2 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:2, Channel:55265, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)

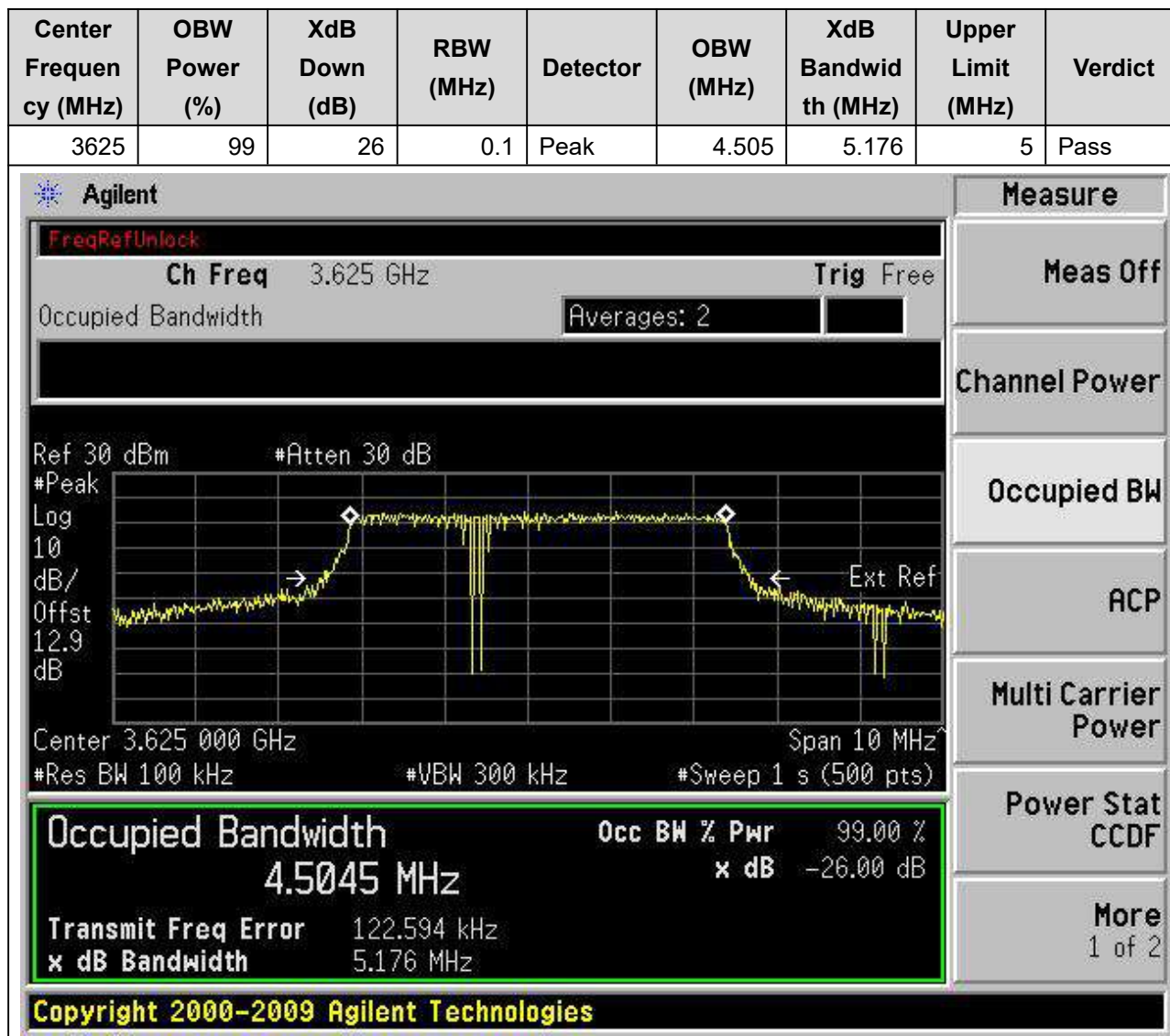


1.3 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:3, Channel:55990, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)

Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3625	99	26	0.1	Peak	4.496	5.087	5	Pass



1.4 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:4, Channel:55990, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)

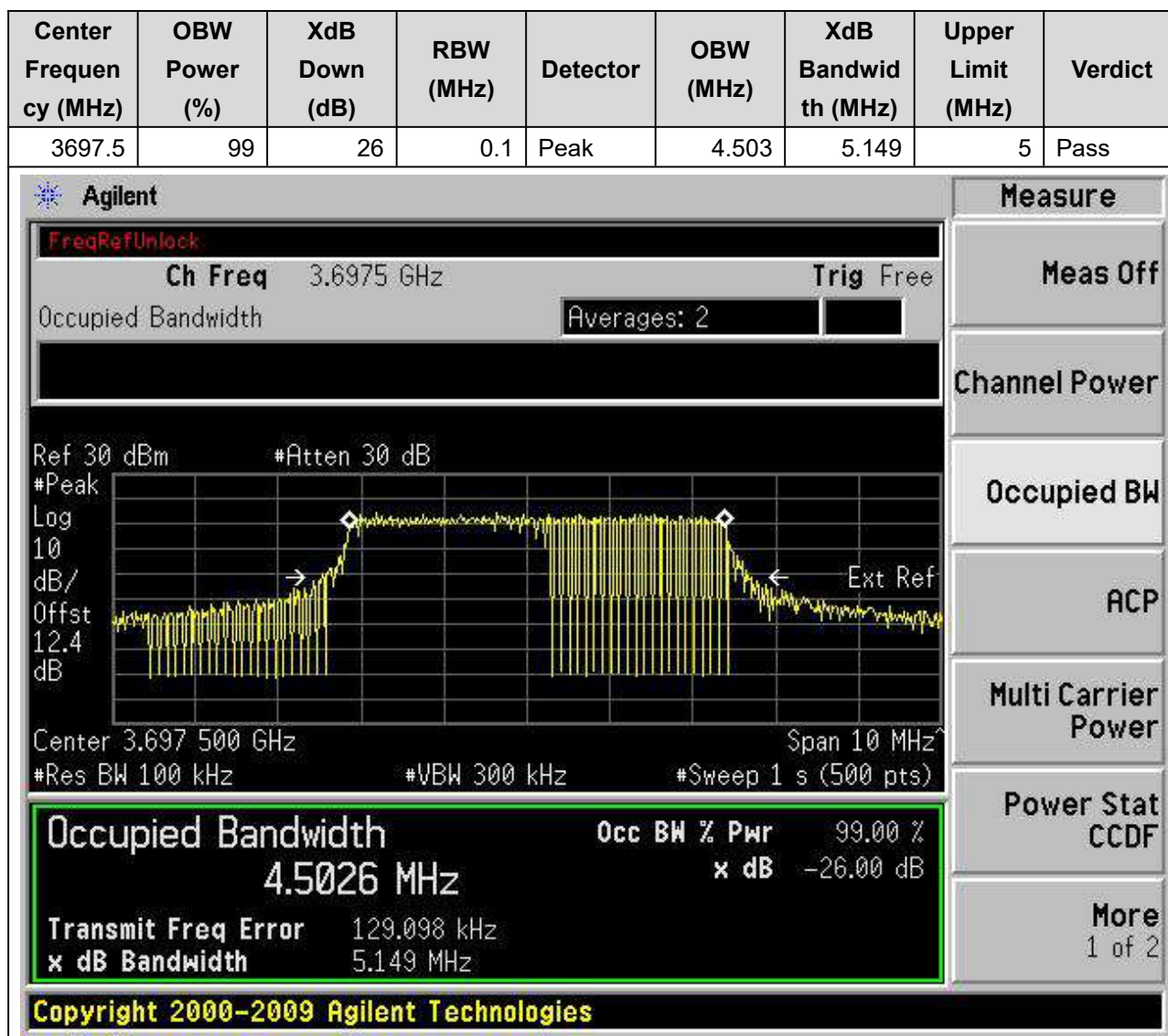


1.5 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:5, Channel:56715, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)

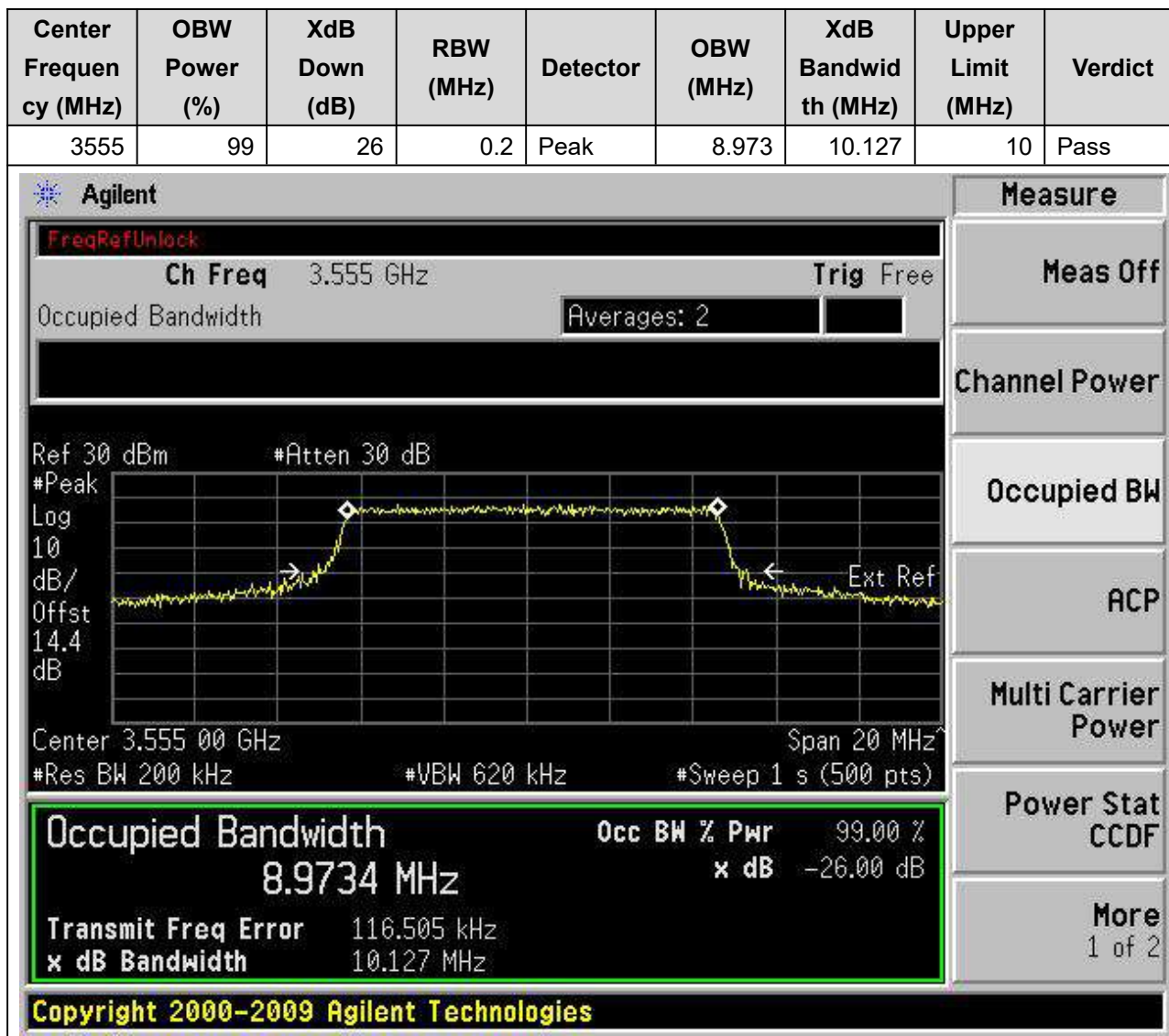
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3697.5	99	26	0.1	Peak	4.498	5.175	5	Pass



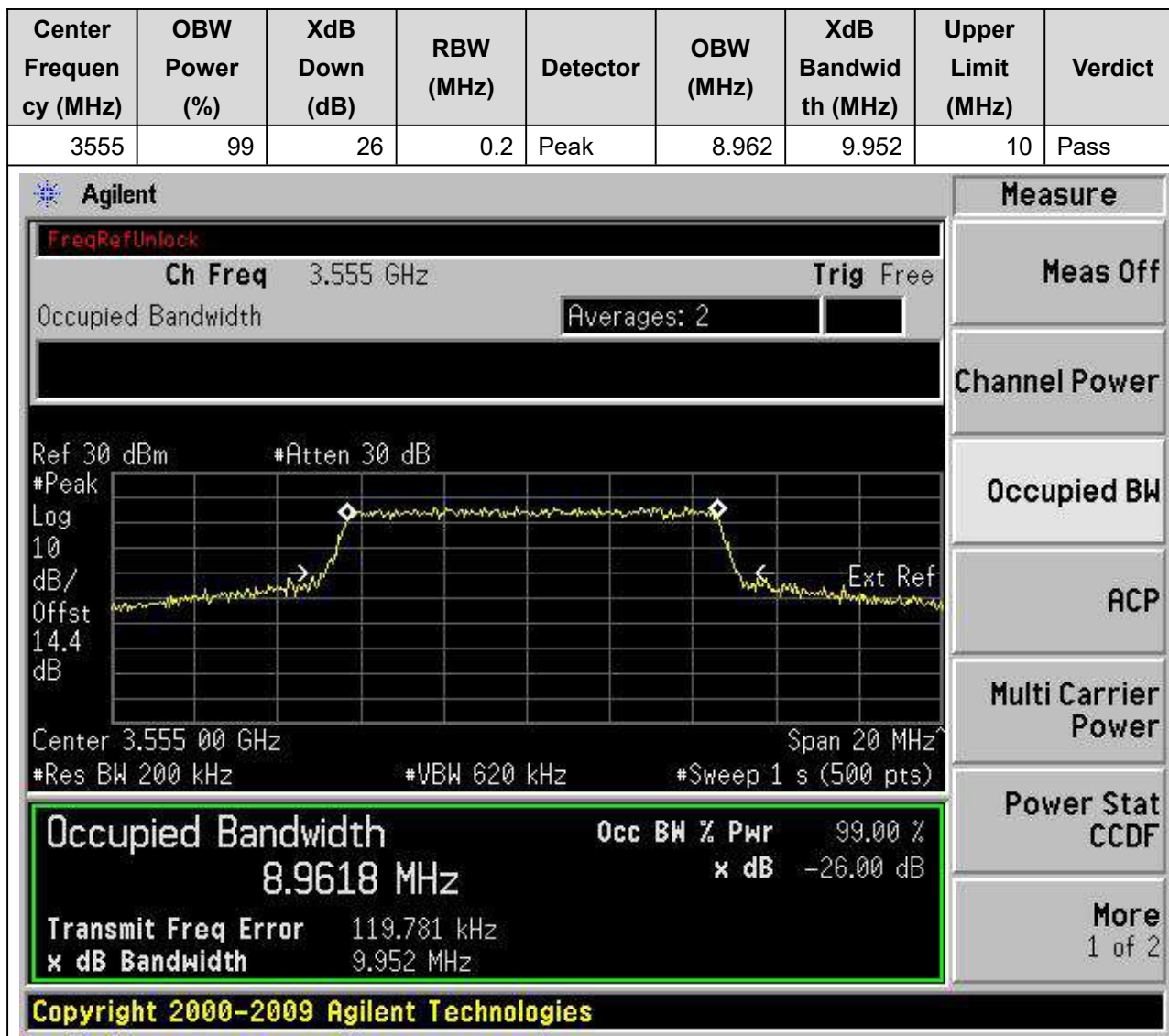
1.6 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:6, Channel:56715, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)



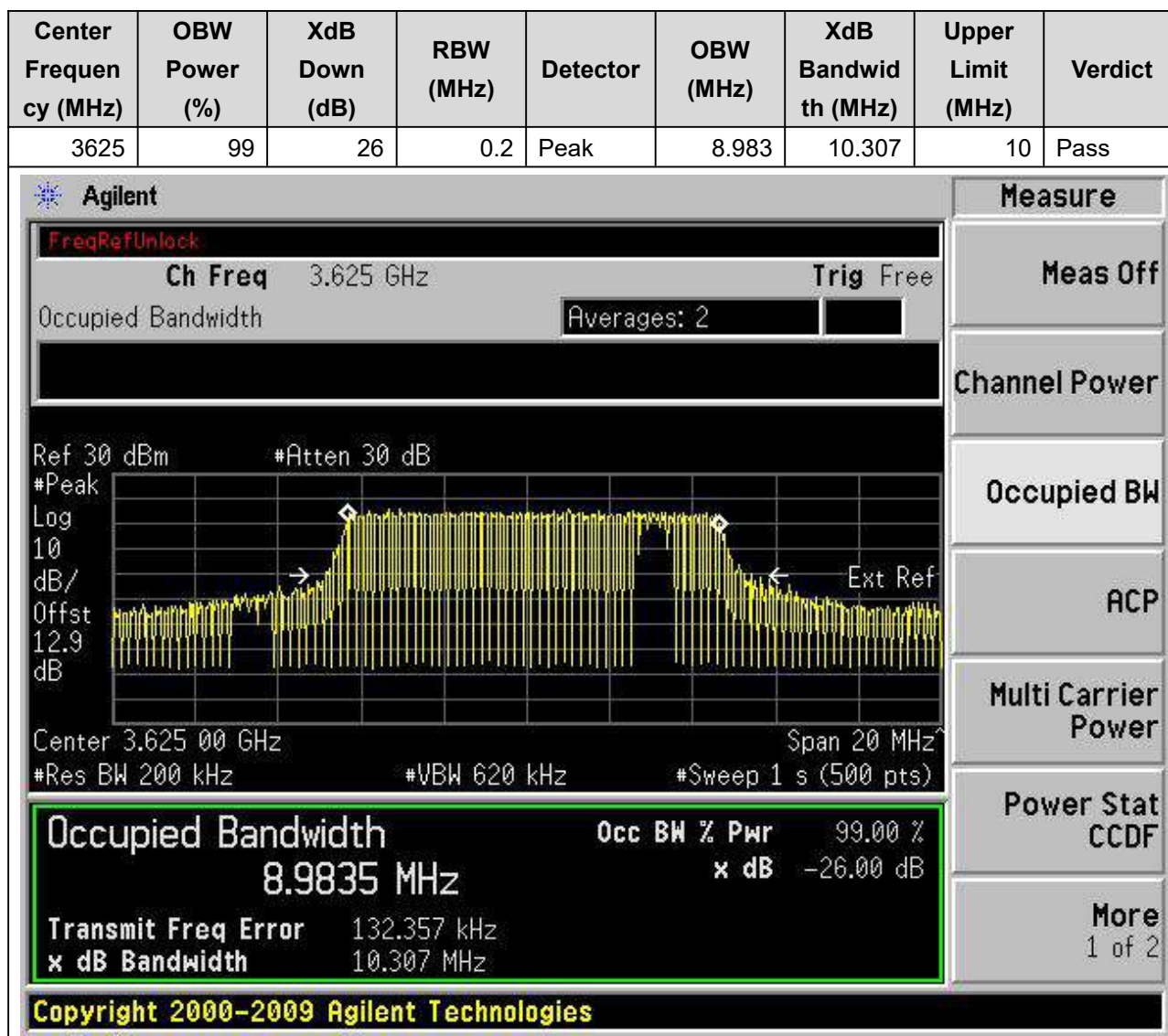
1.7 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:7, Channel:55290, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)



1.8 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:8, Channel:55290, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

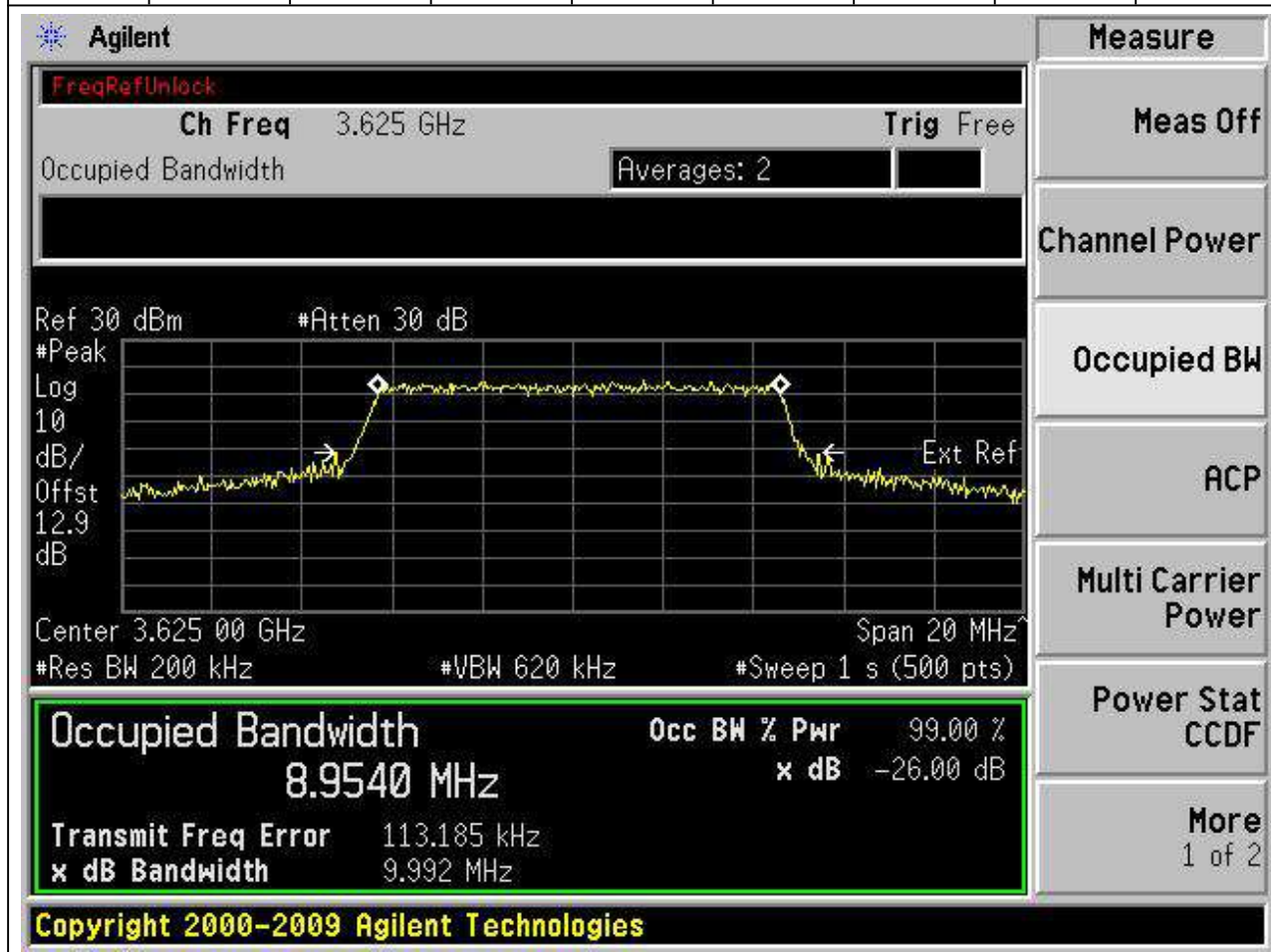


1.9 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:9, Channel:55990, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

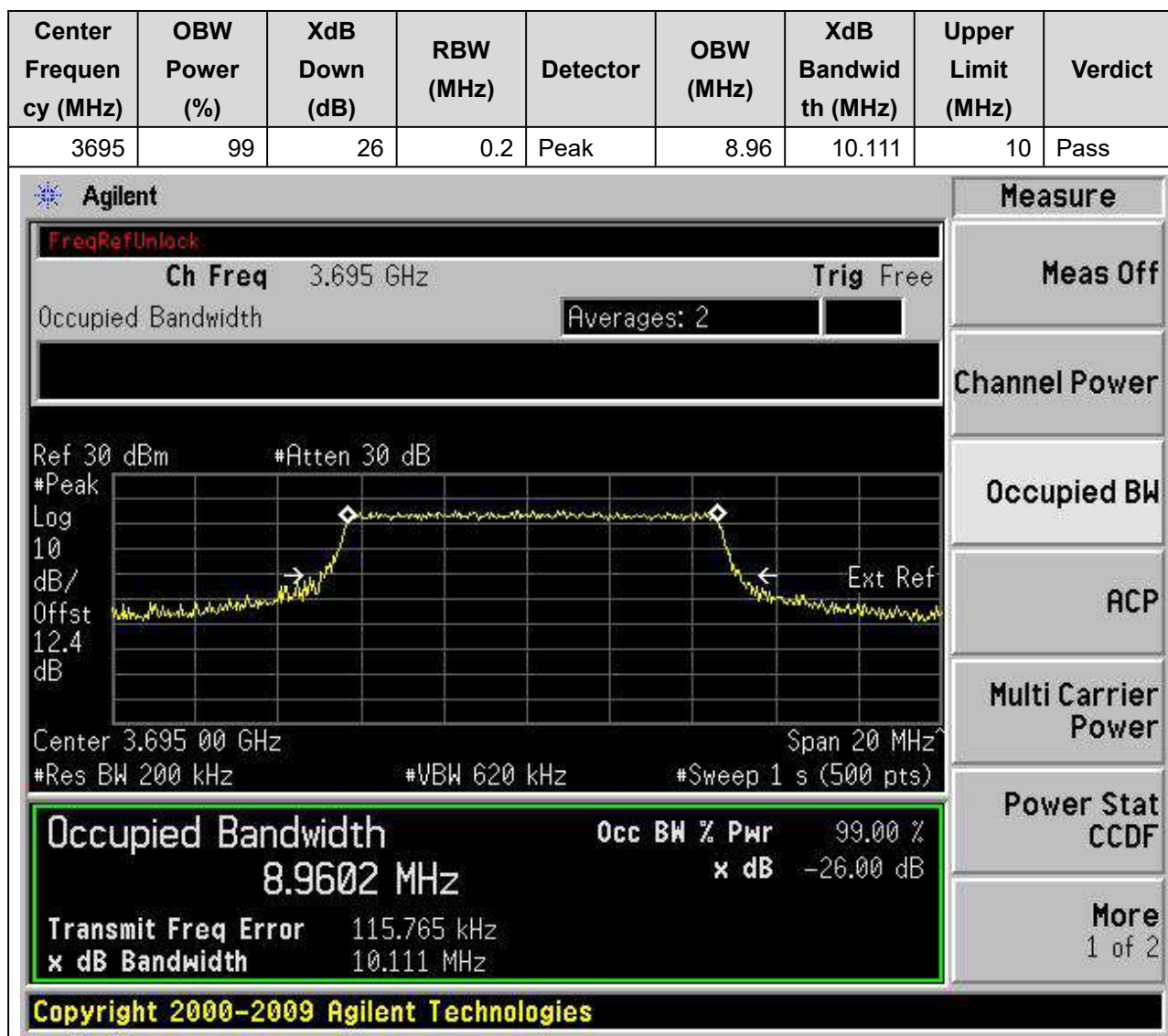


1.10 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:10, Channel:55990, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

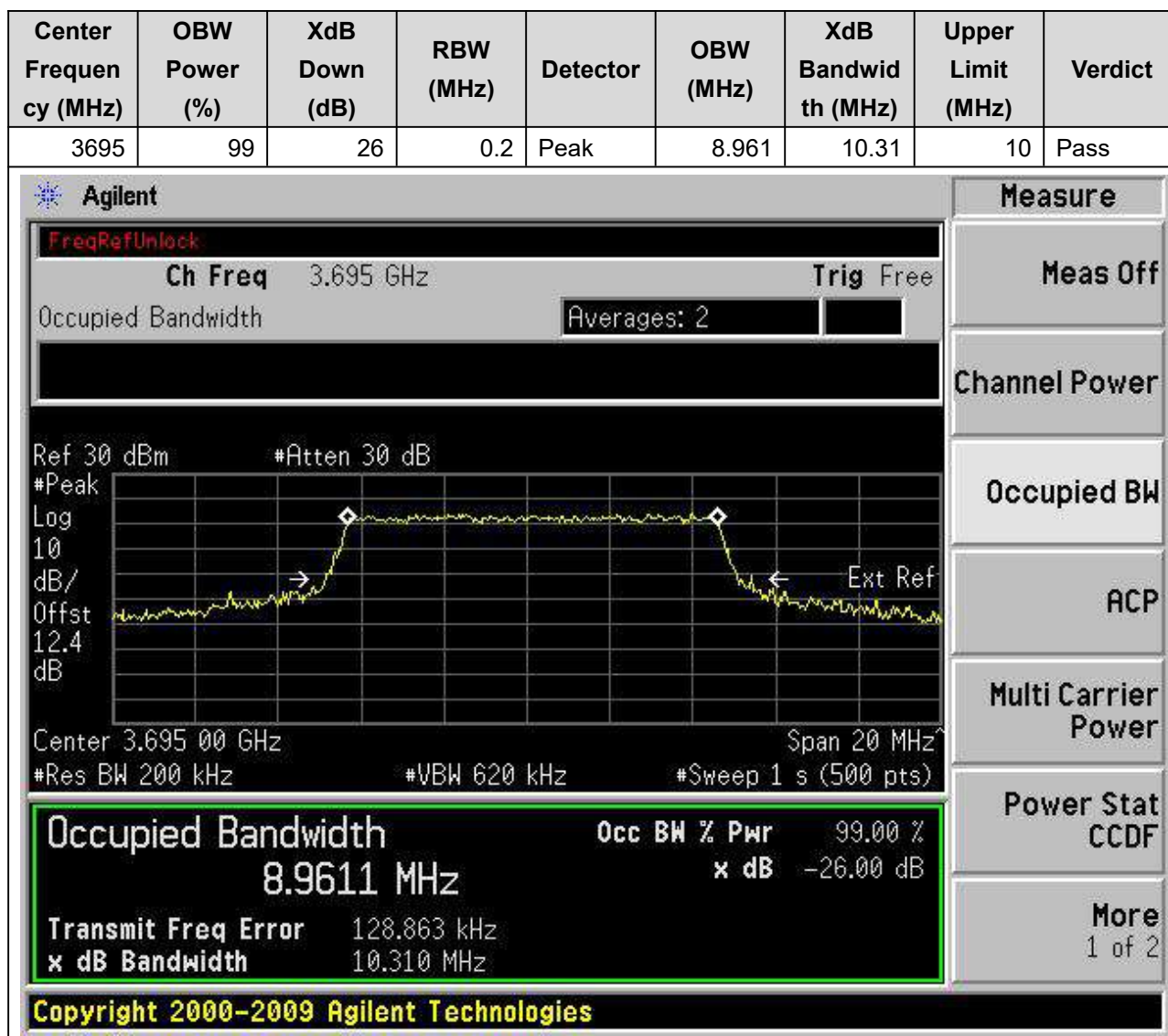
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3625	99	26	0.2	Peak	8.954	9.992	10	Pass



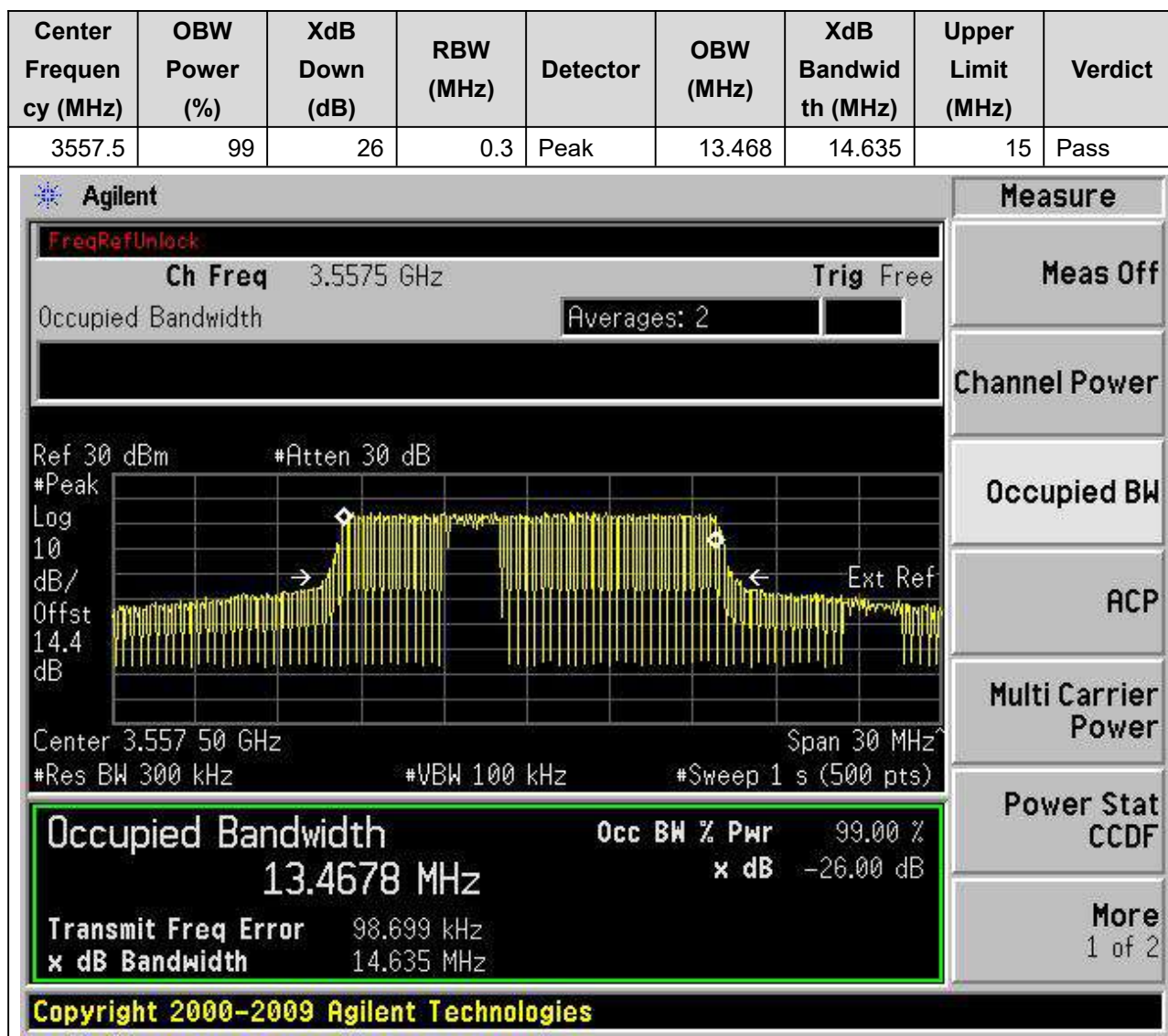
1.11 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:11, Channel:56690, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)



1.12 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:12, Channel:56690, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)



1.13 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:13, Channel:55315, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)



1.14 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:14, Channel:55315, 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
3557.5	99	26	0.3	Peak	13.525	14.596	15	Pass

Agilent

FreqRefUnlock

Ch Freq 3.5575 GHz **Trig** Free

Occupied Bandwidth **Averages: 2**

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 14.4 dB

Center 3.557 50 GHz Span 30 MHz

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

Occupied Bandwidth 13.5246 MHz **Occ BW % Pwr** 99.00 %

x dB Bandwidth 14.596 MHz **x dB** -26.00 dB

Transmit Freq Error 136.084 kHz

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Measure

Meas Off

Channel Power

Occupied BW

ACP

Multi Carrier Power

Power Stat CCDF

More
1 of 2

1.15 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:15, Channel:55990, 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
3625	99	26	0.3	Peak	13.517	14.714	15	Pass

Agilent

FreqRefUnlock

Ch Freq 3.625 GHz **Trig** Free

Occupied Bandwidth **Averages: 2**

Ref 30 dBm #Atten 30 dB

#Peak Log 10 dB/Offst 12.9 dB

Center 3.625 00 GHz Span 30 MHz

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

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

13.5174 MHz **x dB** -26.00 dB

Transmit Freq Error 129.428 kHz

x dB Bandwidth 14.714 MHz

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Measure

Meas Off

Channel Power

Occupied BW

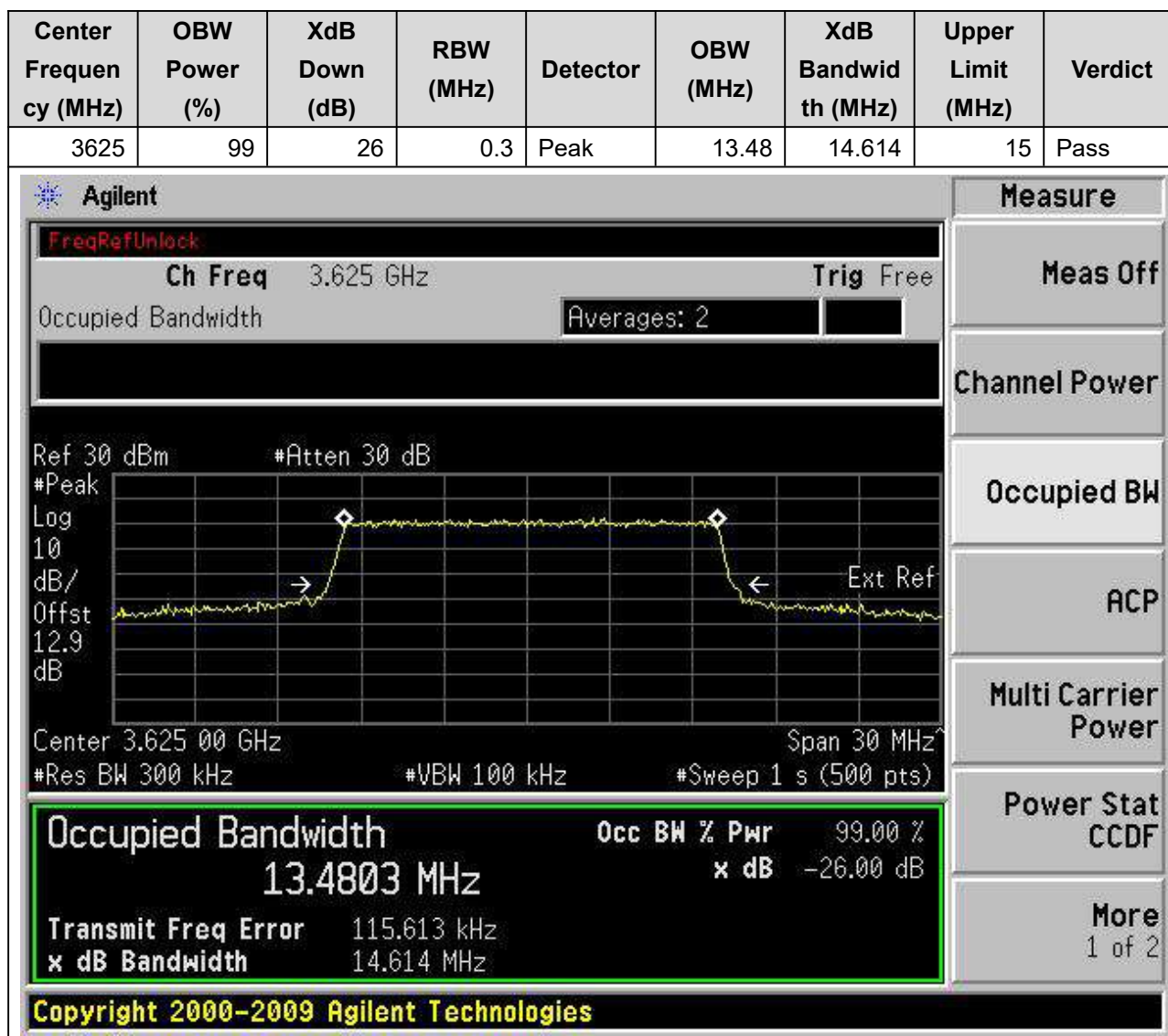
ACP

Multi Carrier Power

Power Stat CCDF

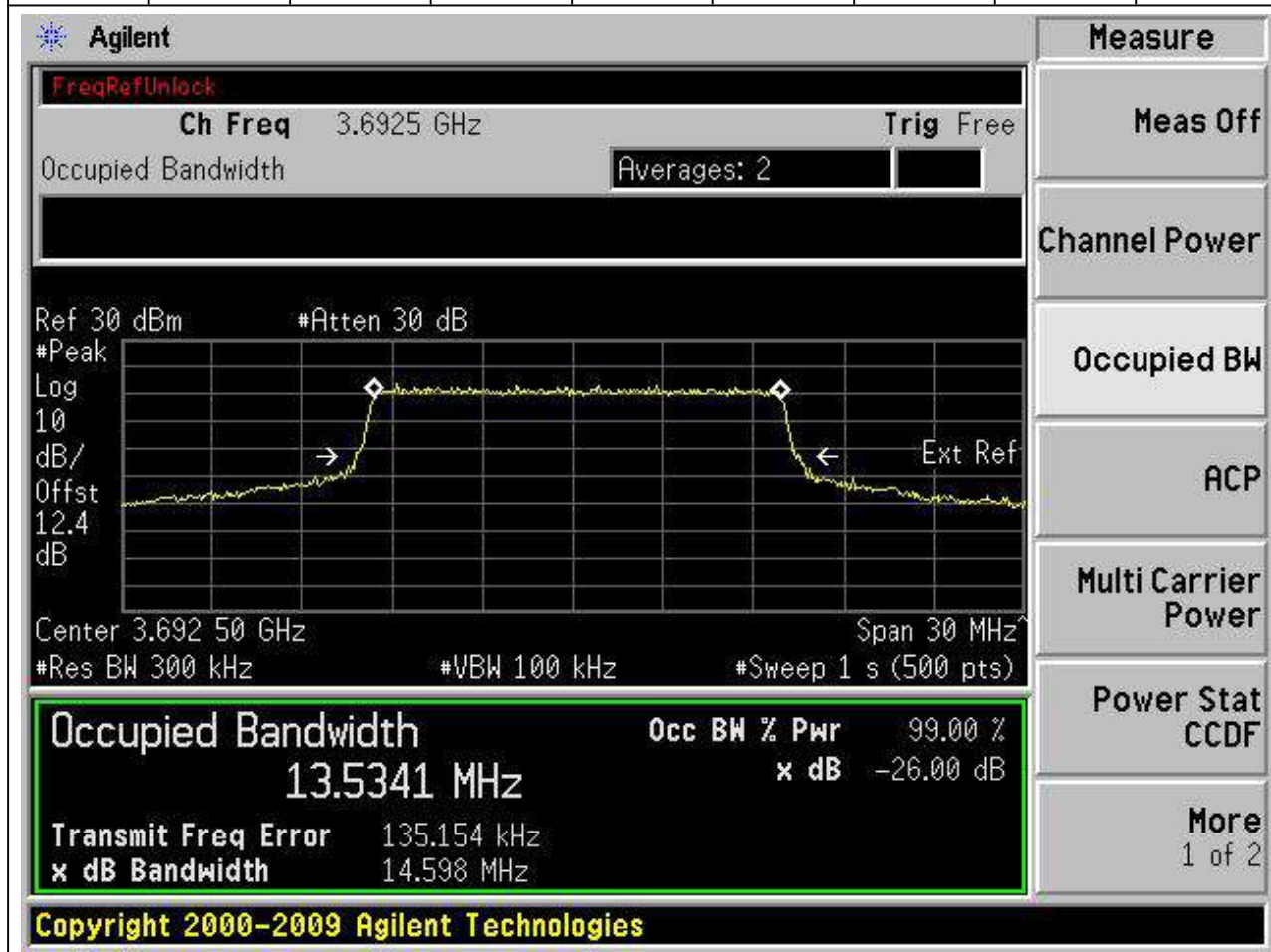
More
1 of 2

1.16 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:16, Channel:55990, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)

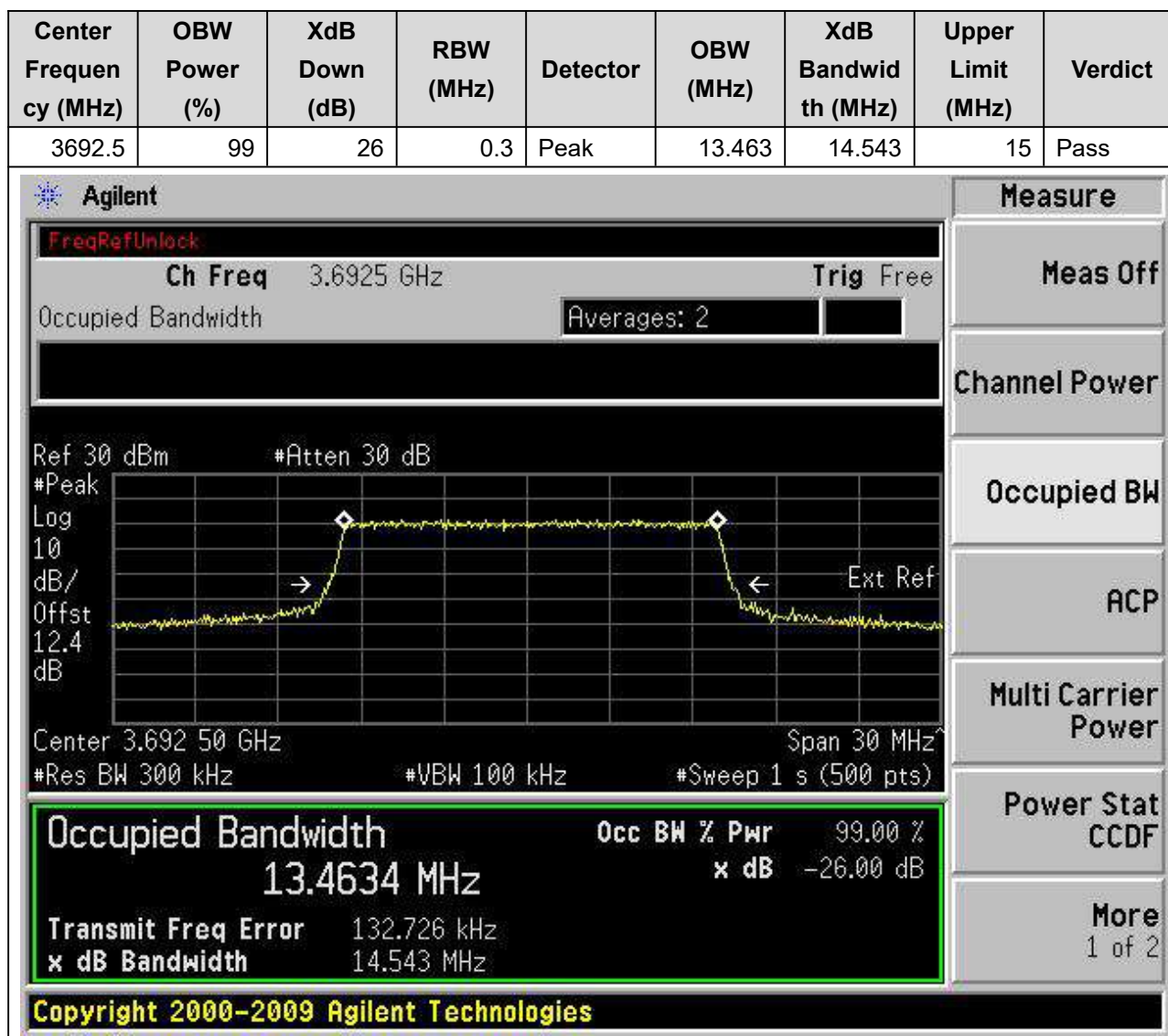


1.17 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:17, Channel:56665, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)

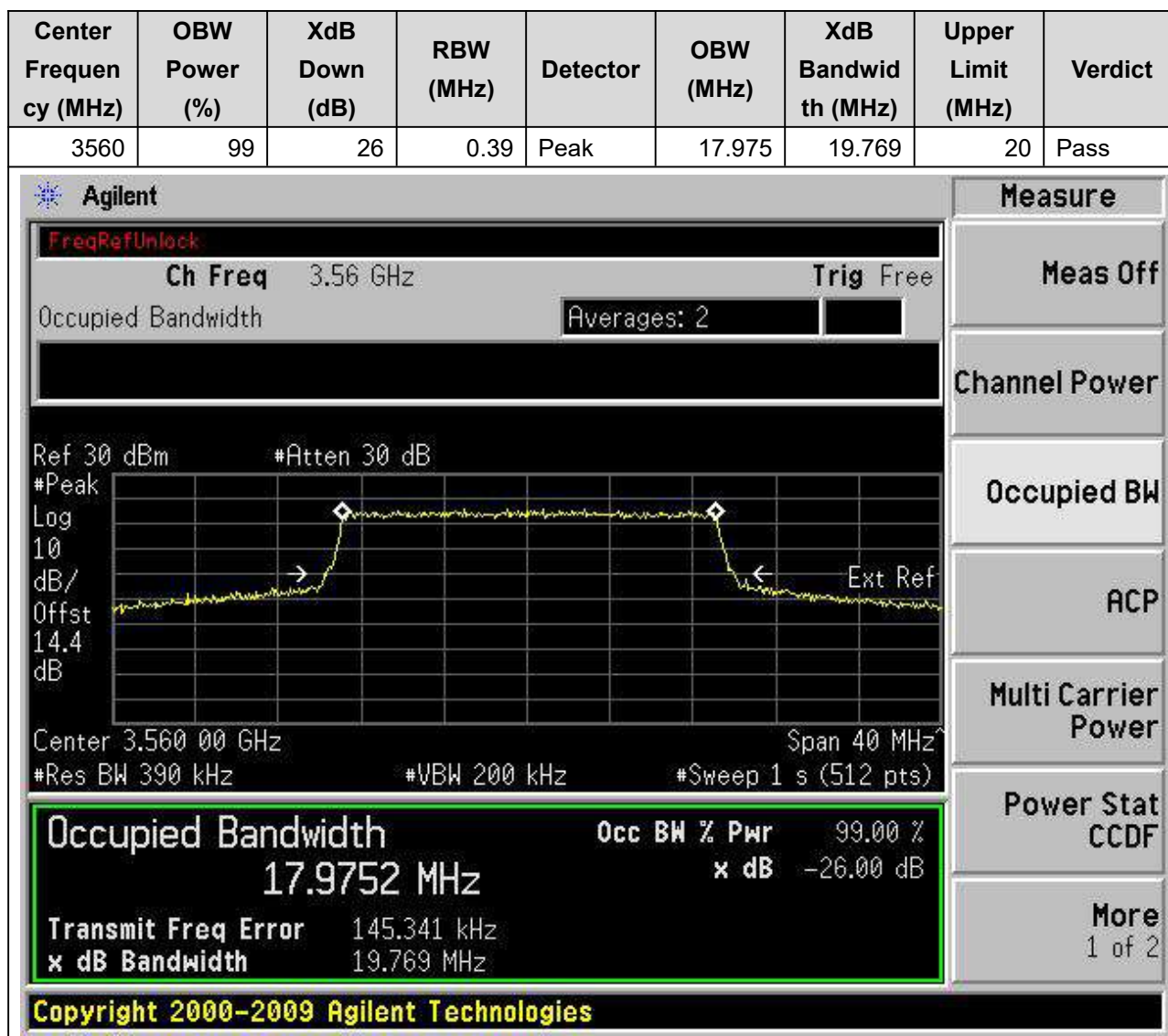
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3692.5	99	26	0.3	Peak	13.534	14.598	15	Pass



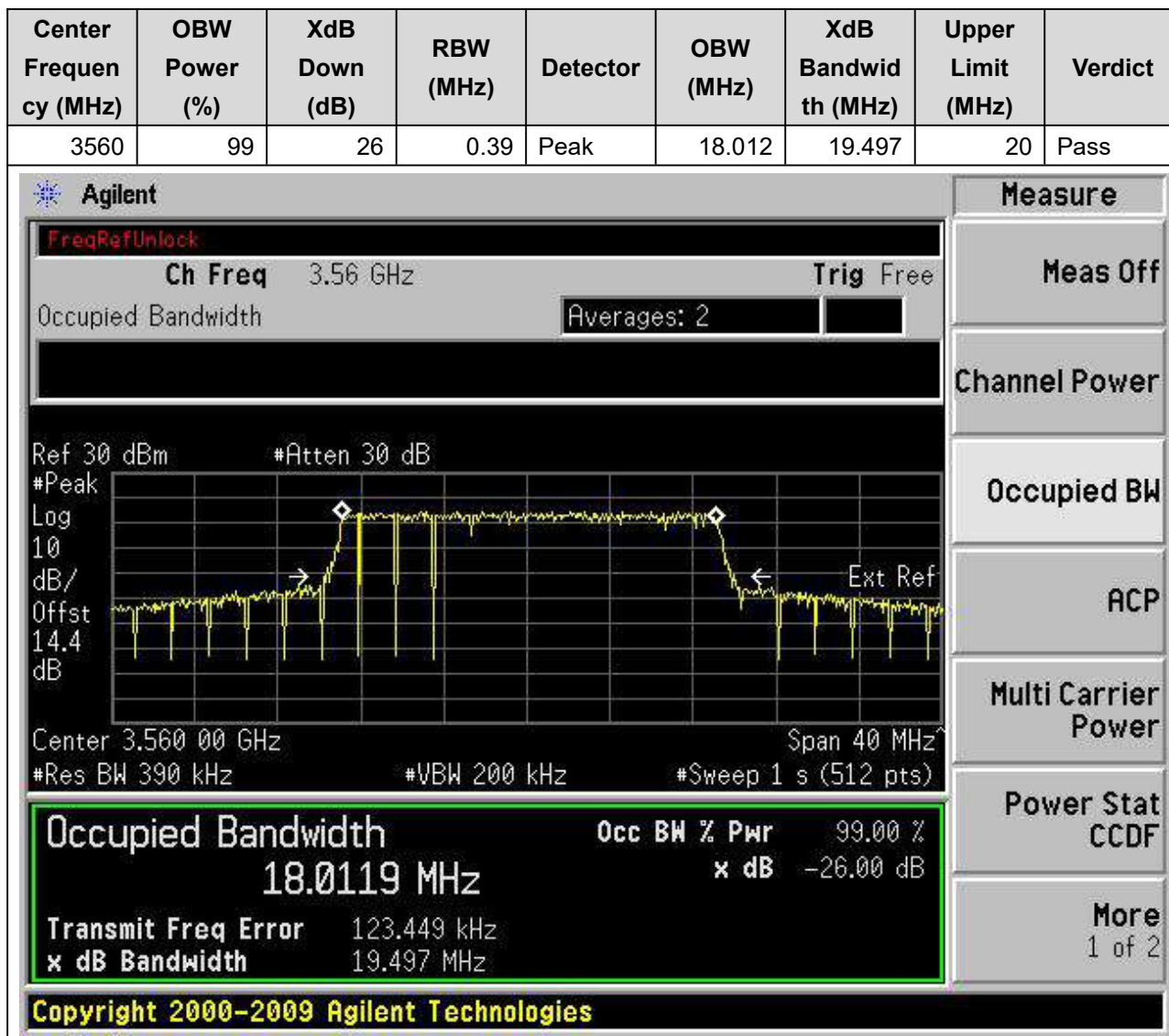
1.18 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:18, Channel:56665, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)



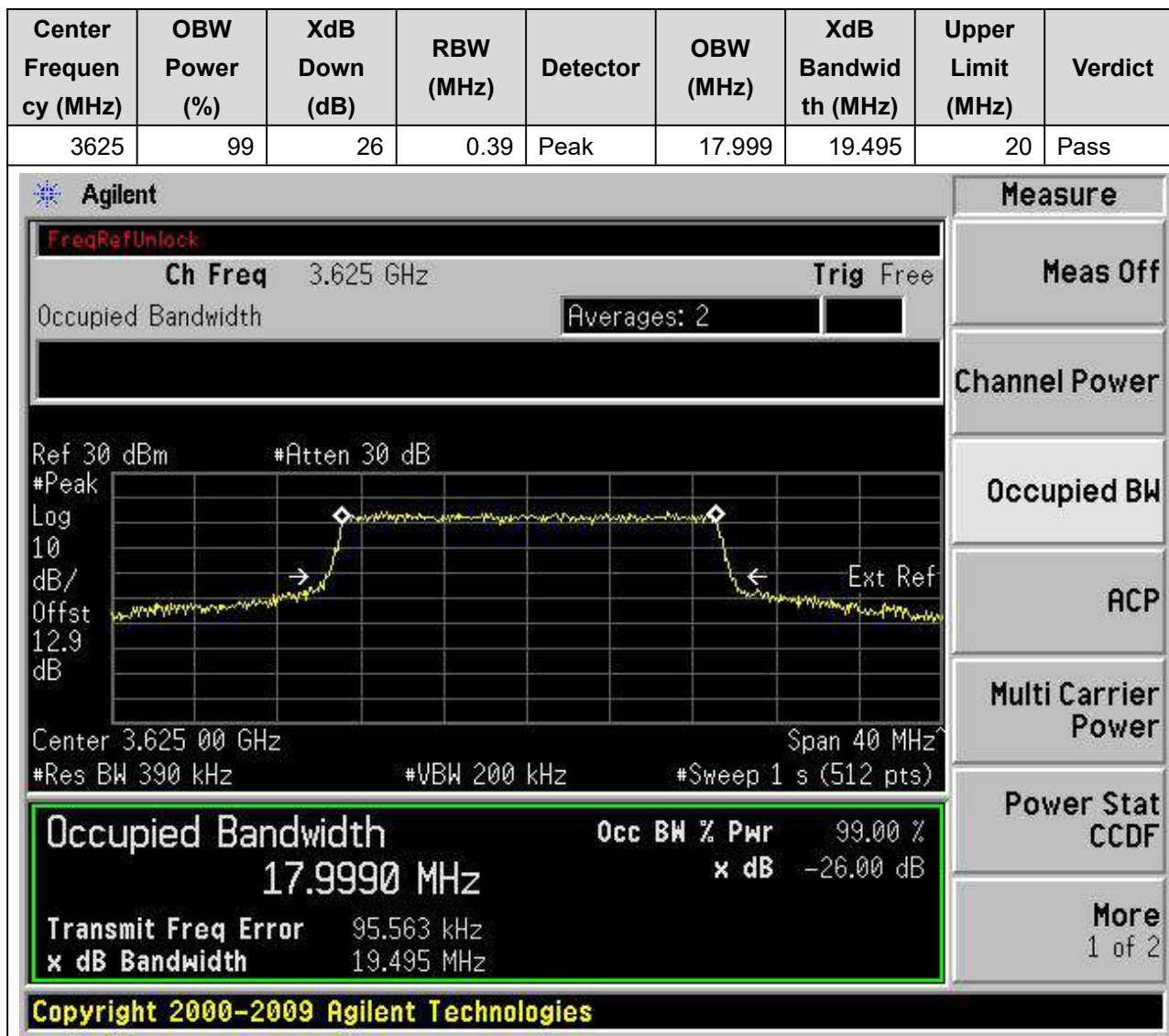
1.19 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:19, Channel:55340, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)



1.20 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:20, Channel:55340, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

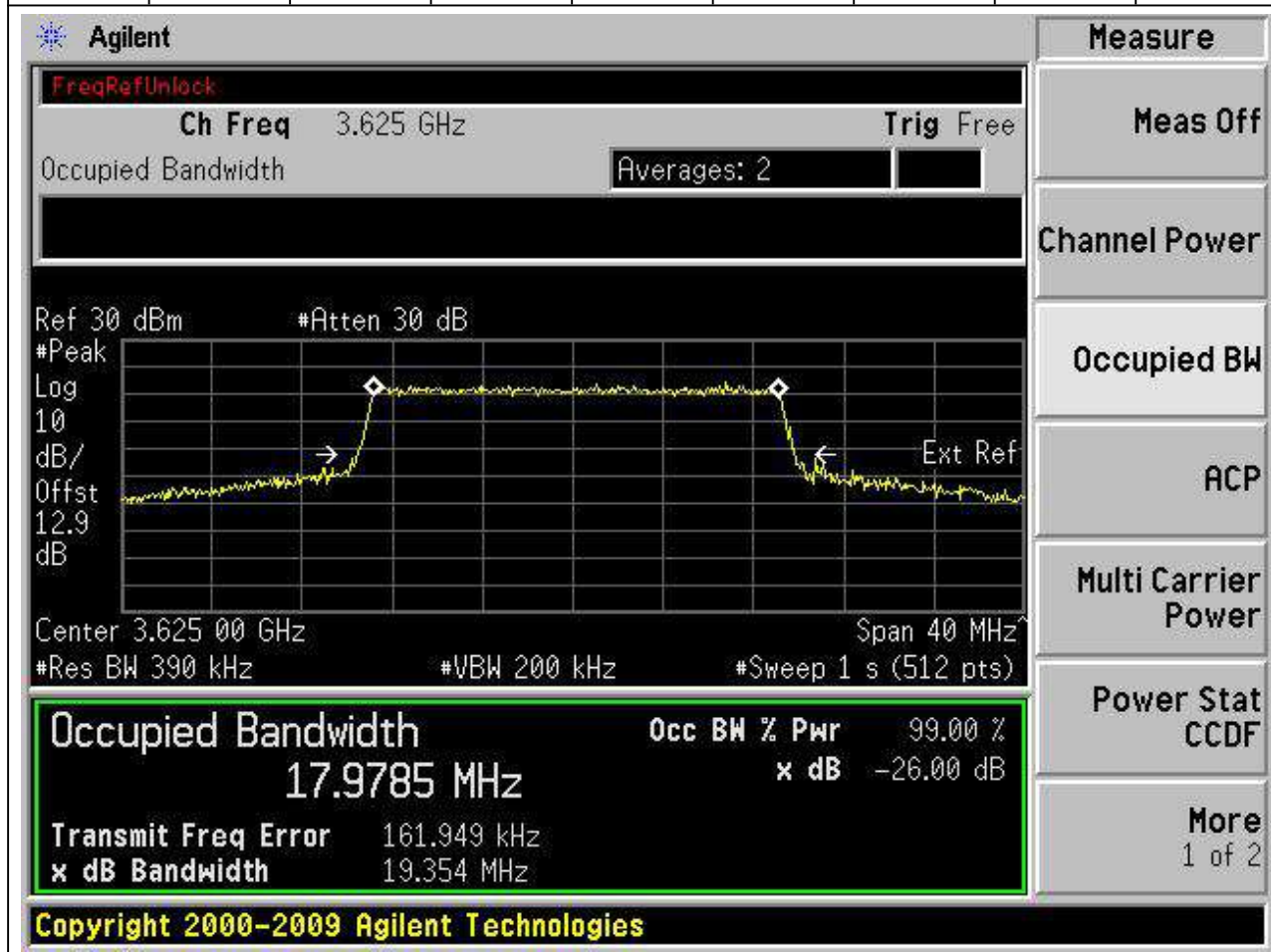


1.21 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:21, Channel:55990, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

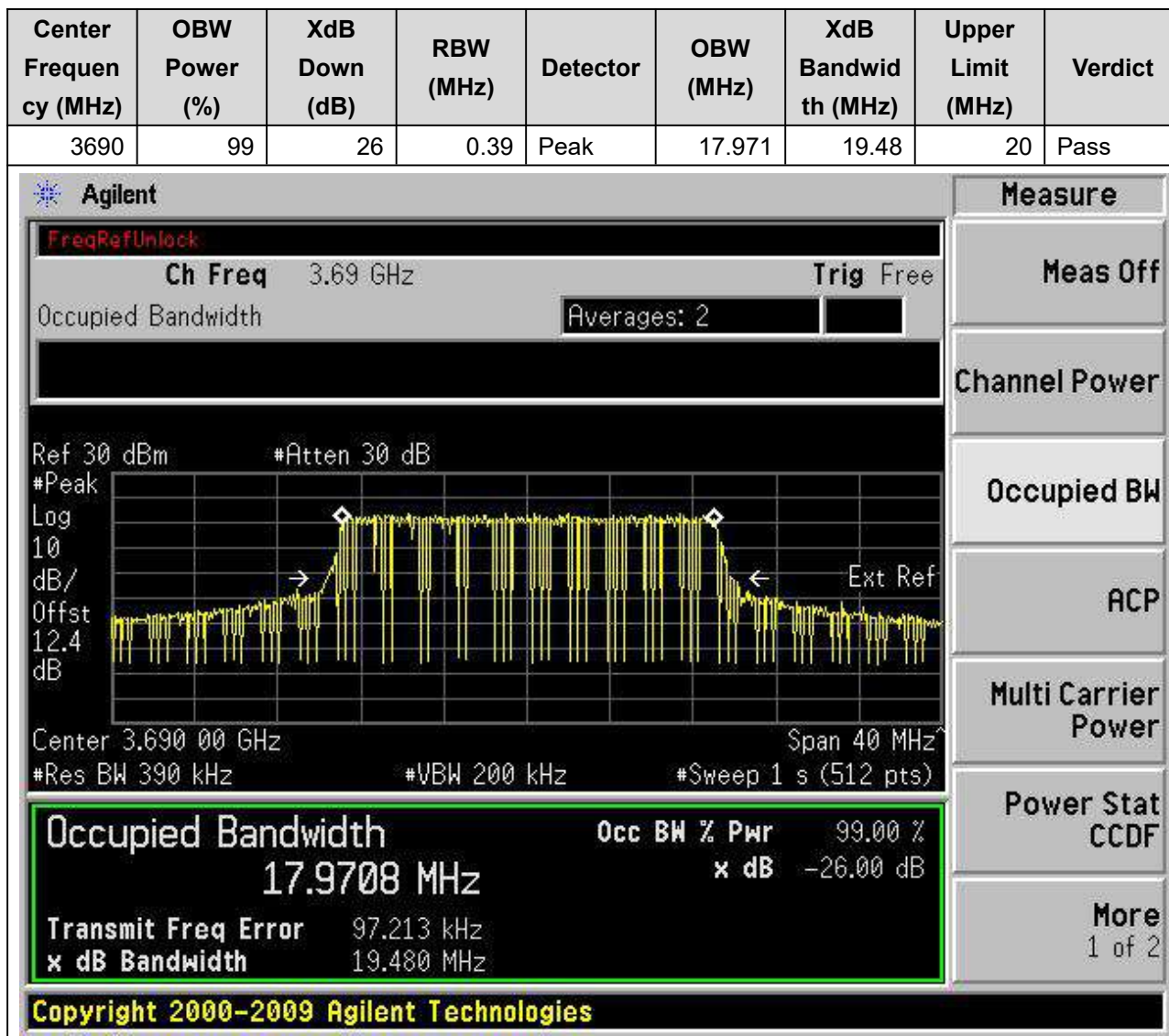


1.22 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:22, Channel:55990, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

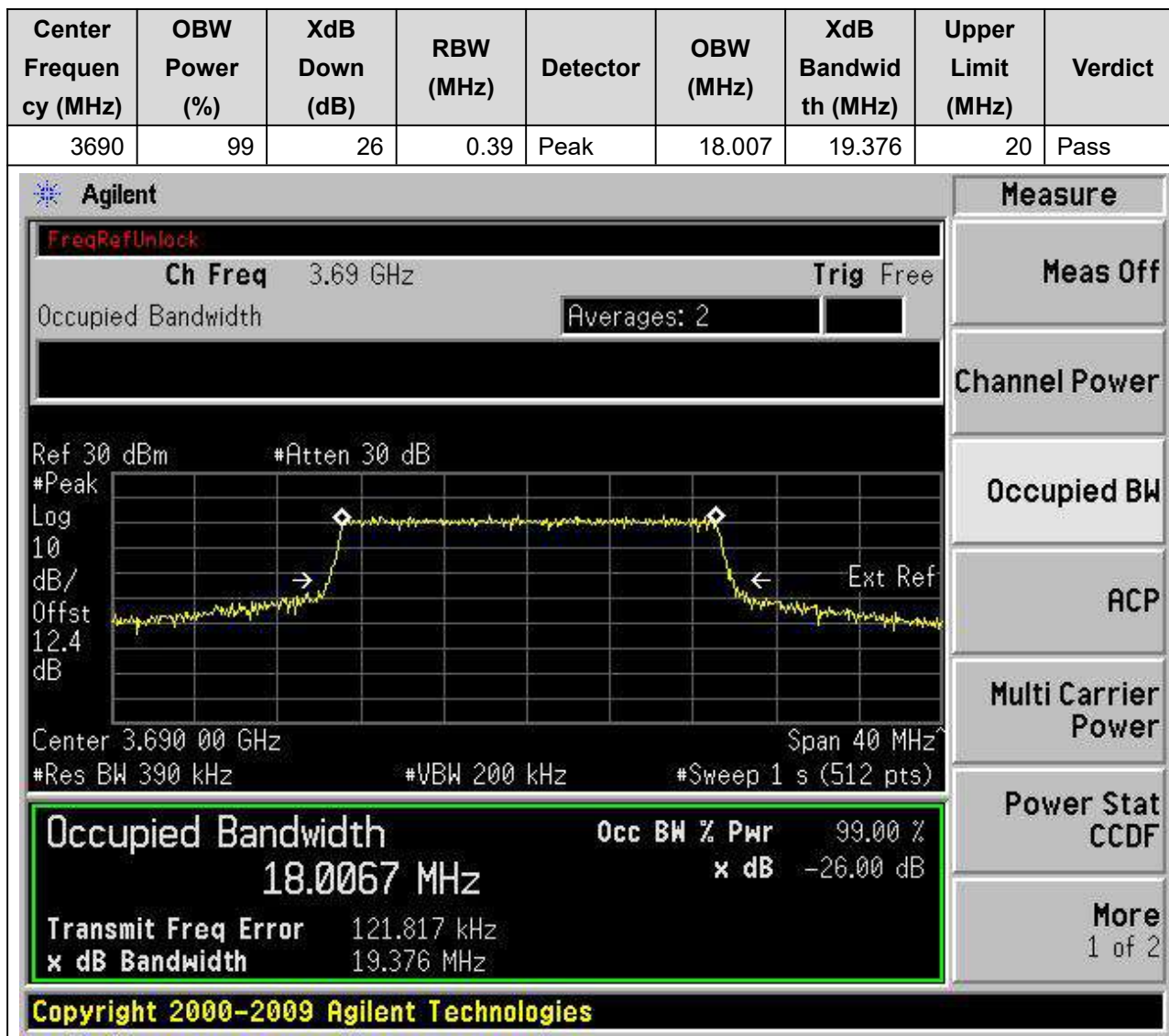
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3625	99	26	0.39	Peak	17.978	19.354	20	Pass



1.23 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:23, Channel:56640, Bandwidth:20, Modulation:QPSK, RB Number: 100, RB Position:LOW)

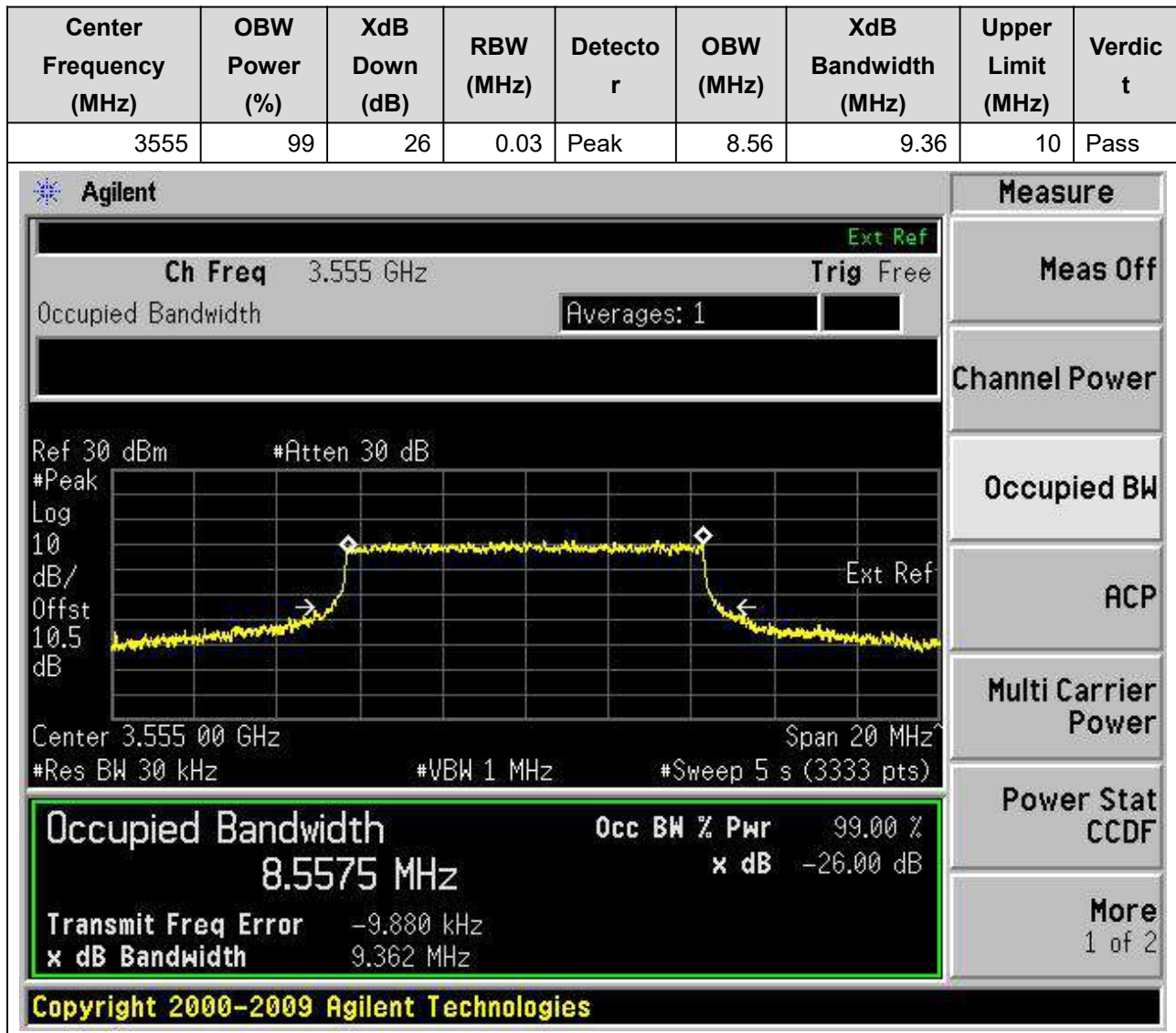


1.24 LTE Occupied Bandwidth_Part96(NTNV)(Subtest:24, Channel:56640, Bandwidth:20, Modulation:Q16, RB Number: 100, RB Position:LOW)

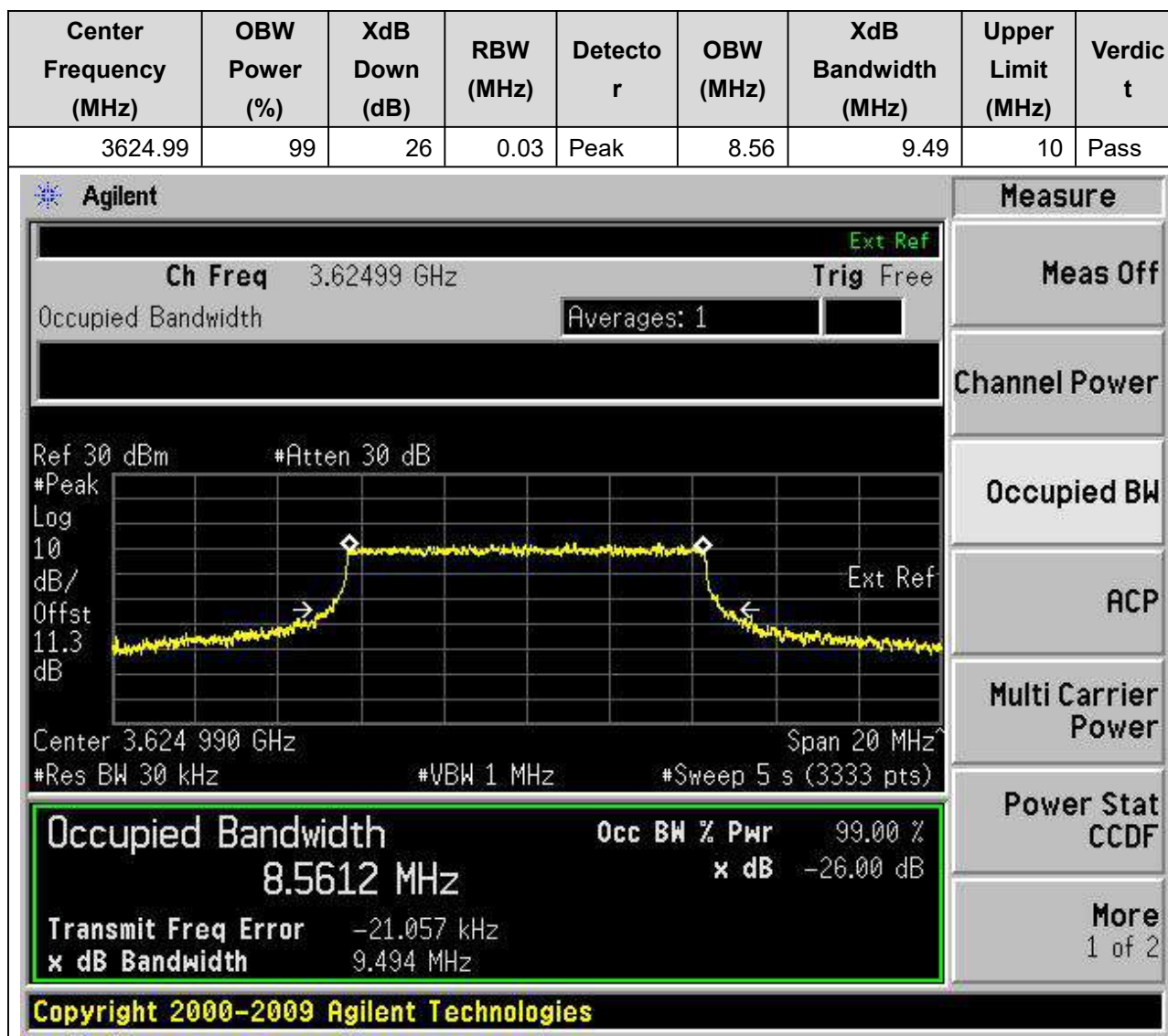


2. n48 30kHz

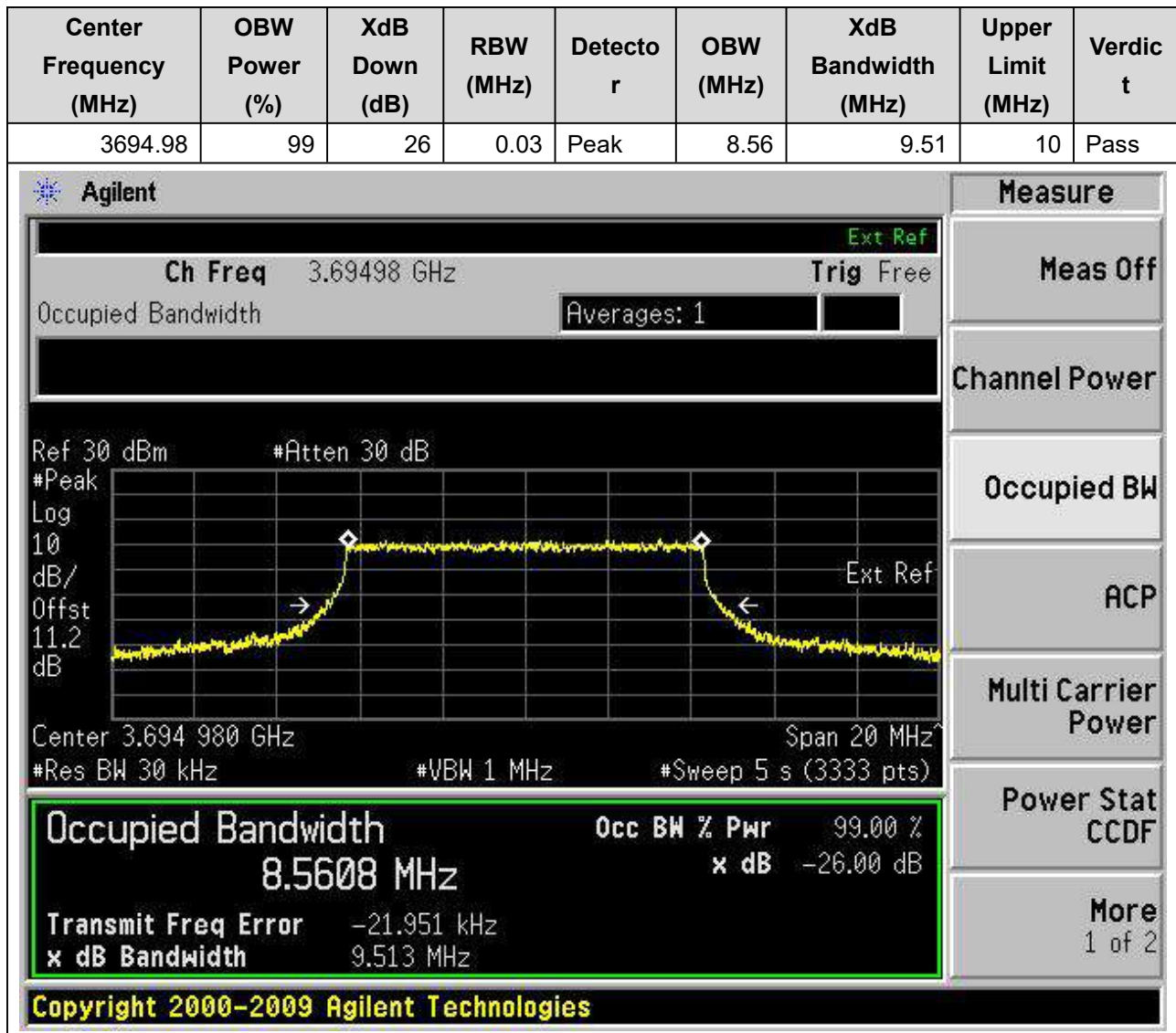
2.1 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:24, RB Position:0)



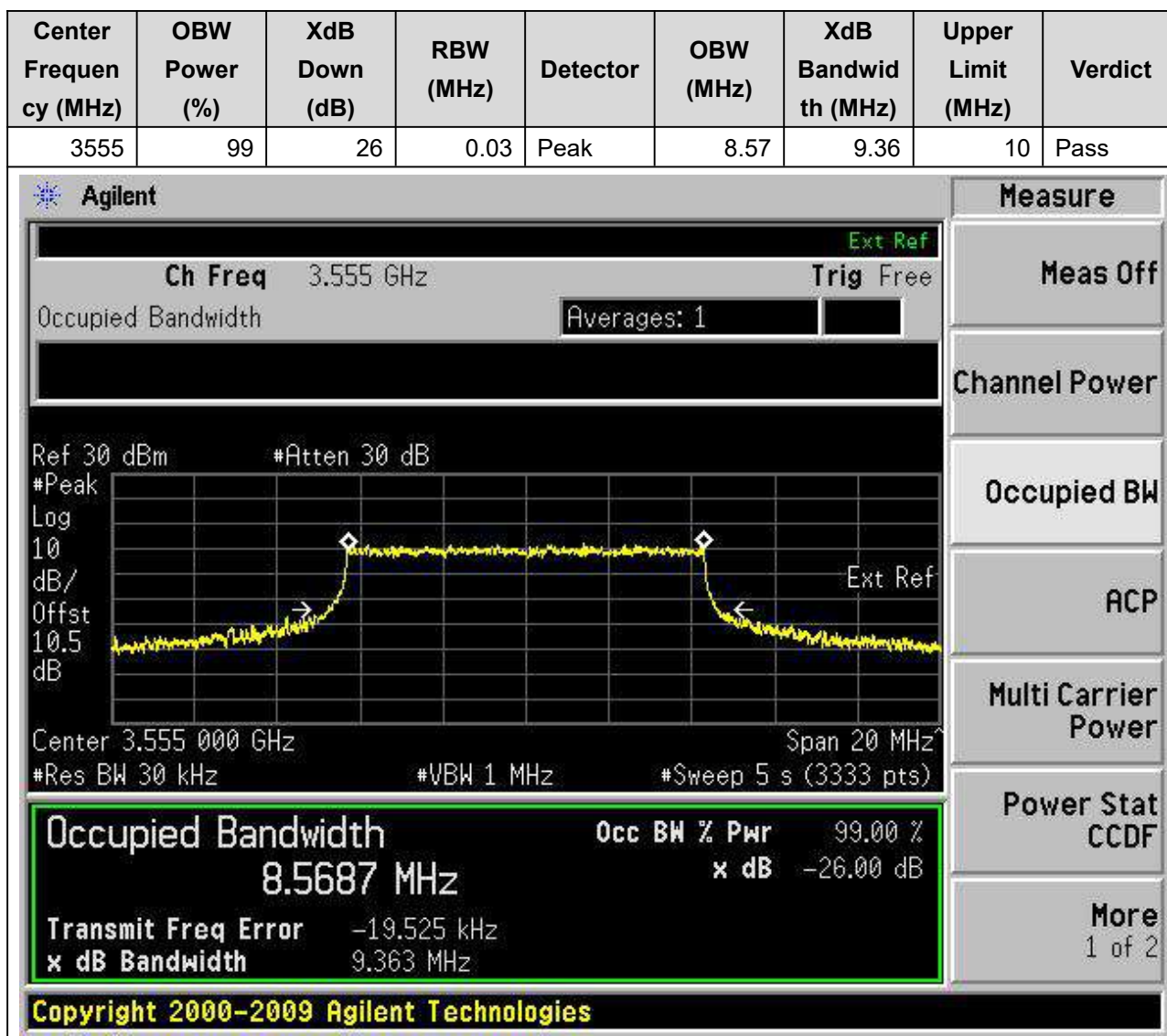
2.2 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:24, RB Position:0)



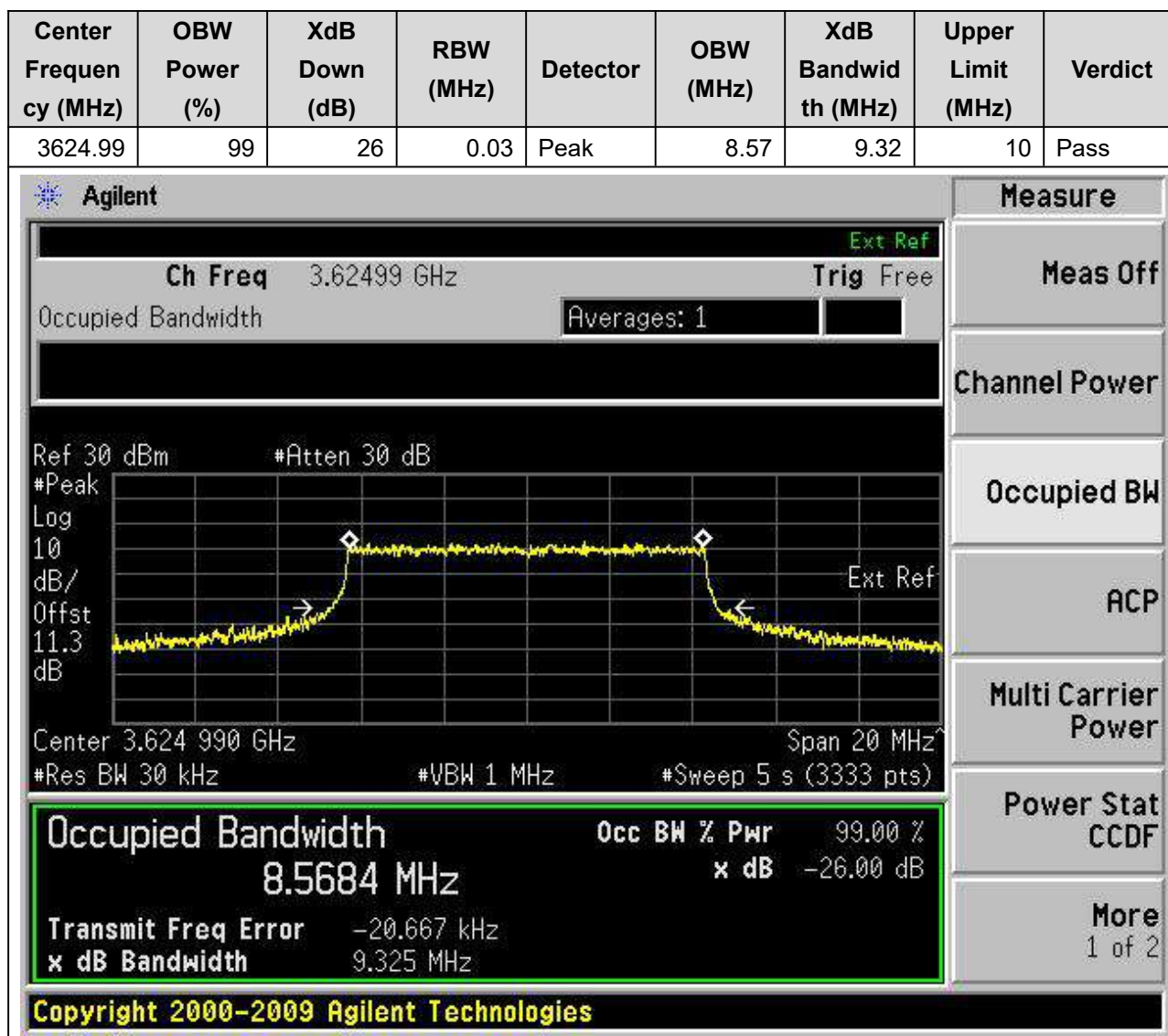
2.3 Occupied Bandwidth for SA_Part96(NTNV)(Channel:646332, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:24, RB Position:0)



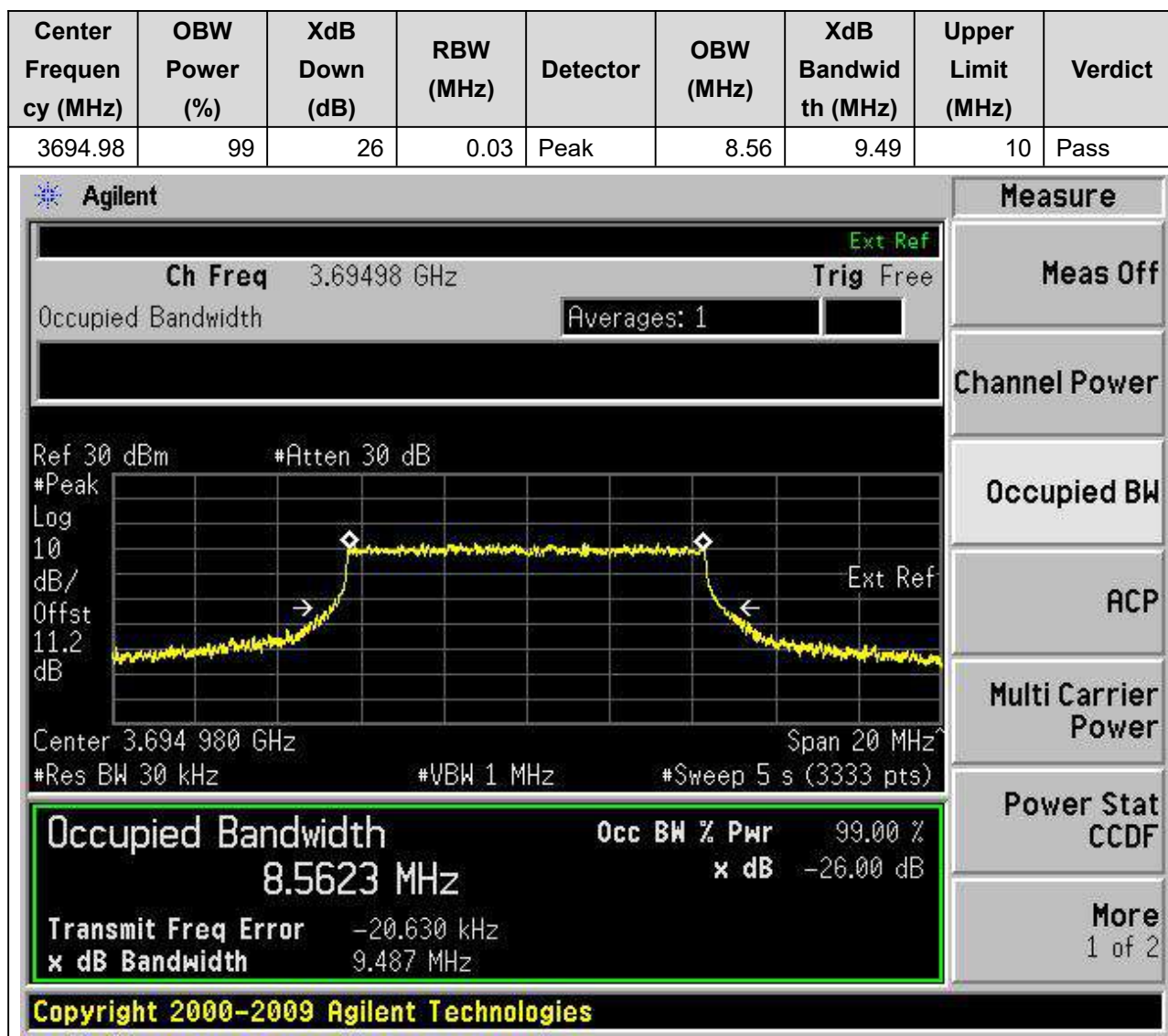
2.4 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:24, RB Position:0)



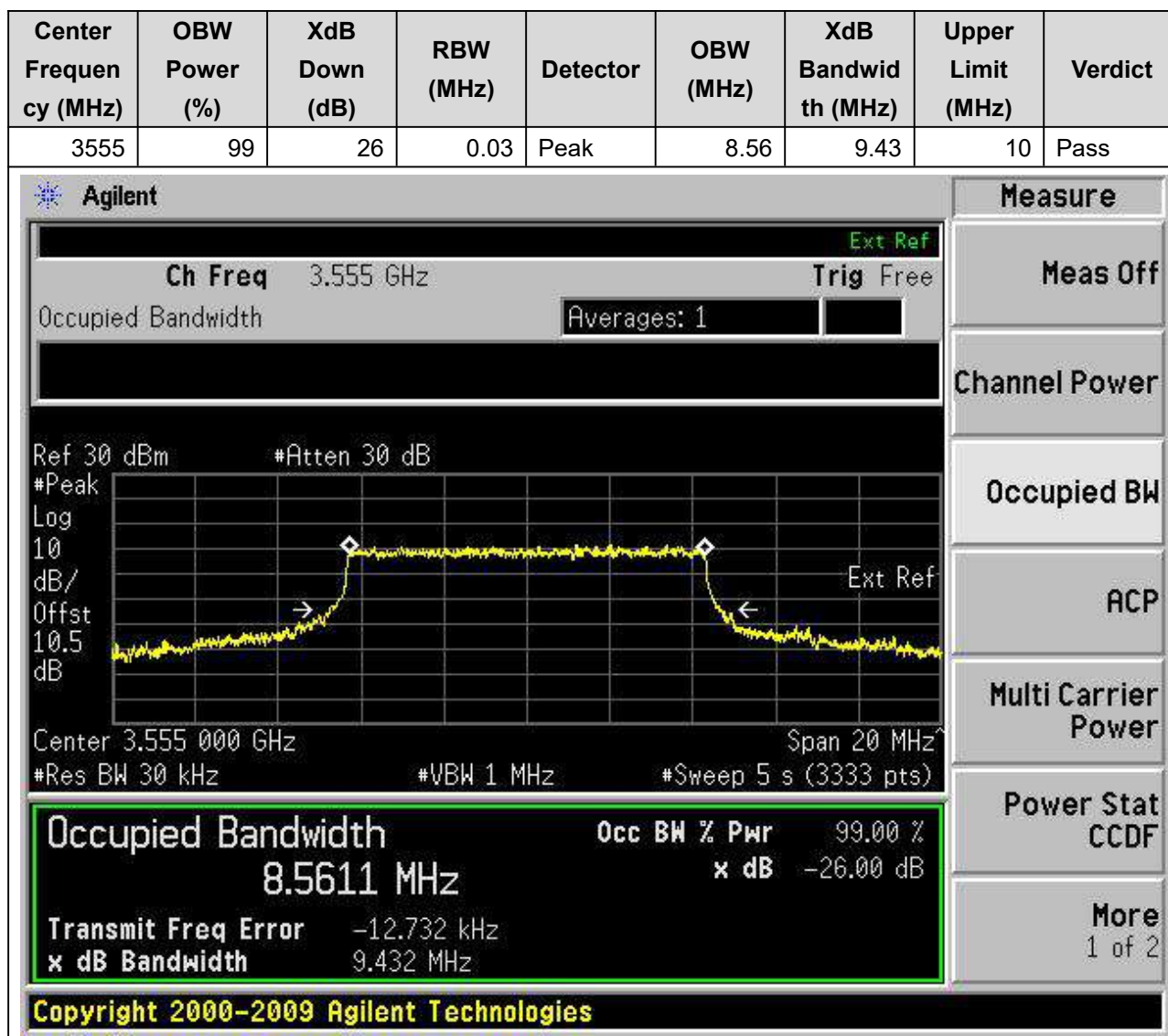
2.5 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:24, RB Position:0)



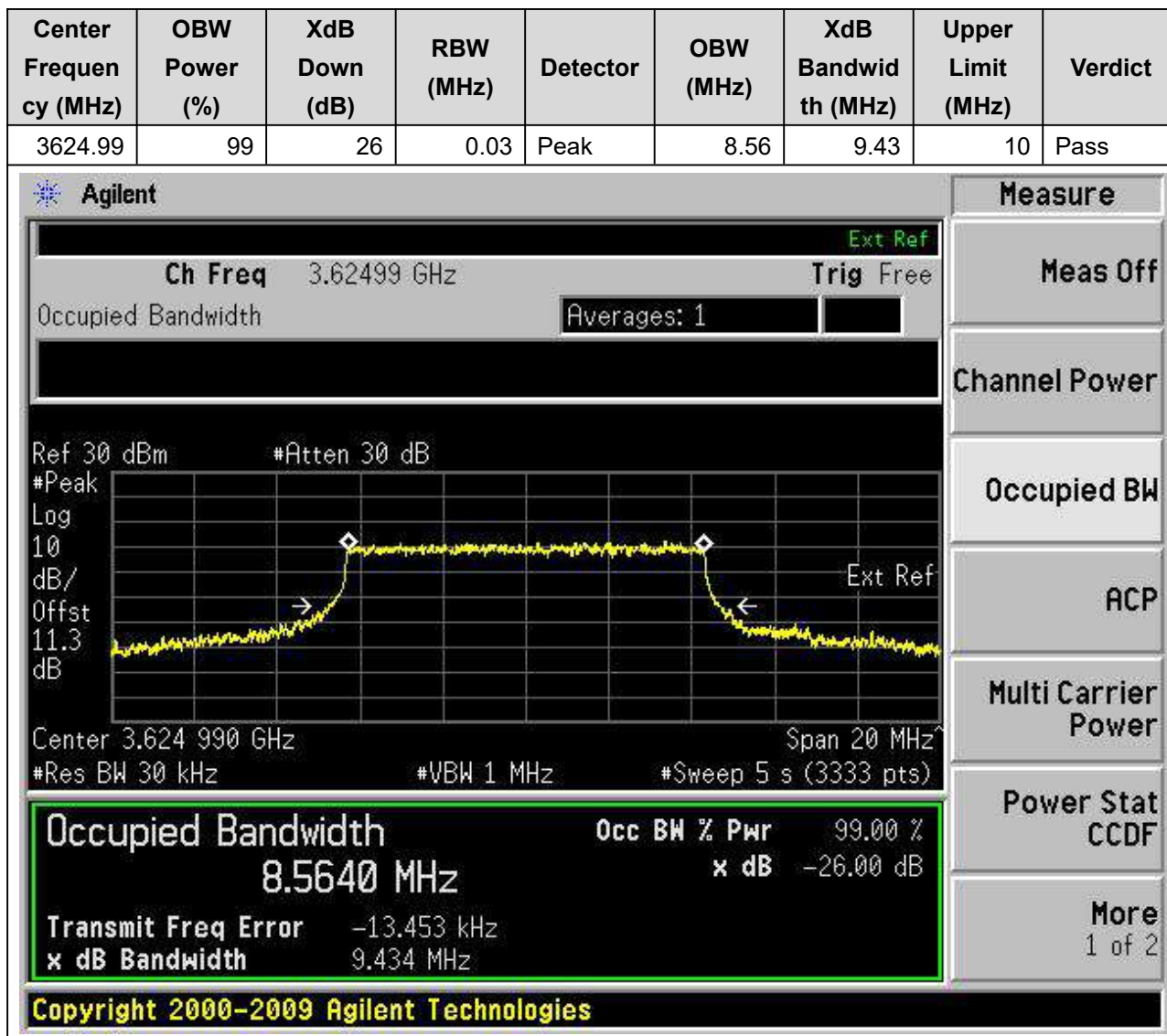
2.6 Occupied Bandwidth for SA_Part96(NTNV)(Channel:646332, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:24, RB Position:0)



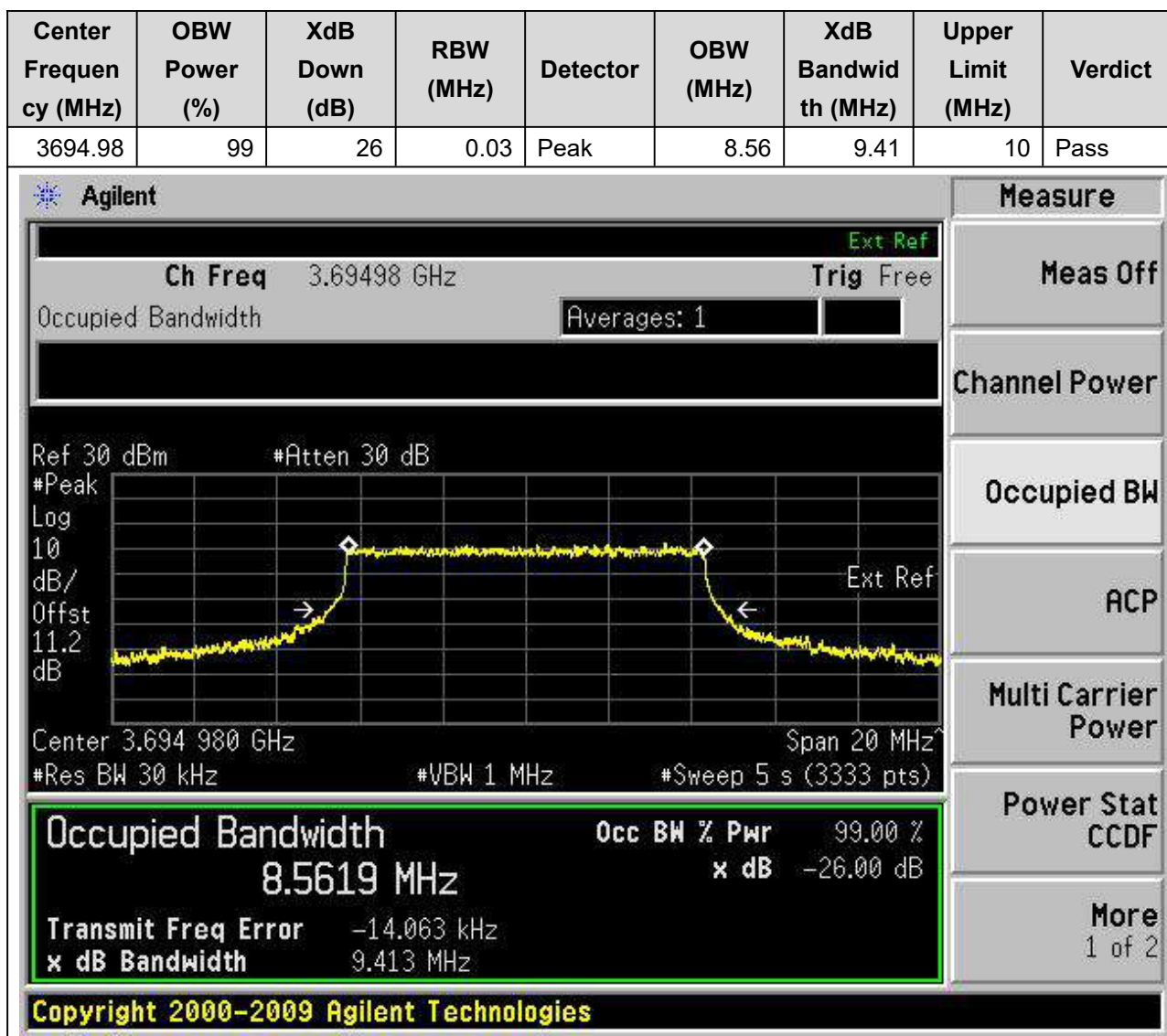
2.7 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:24, RB Position:0)



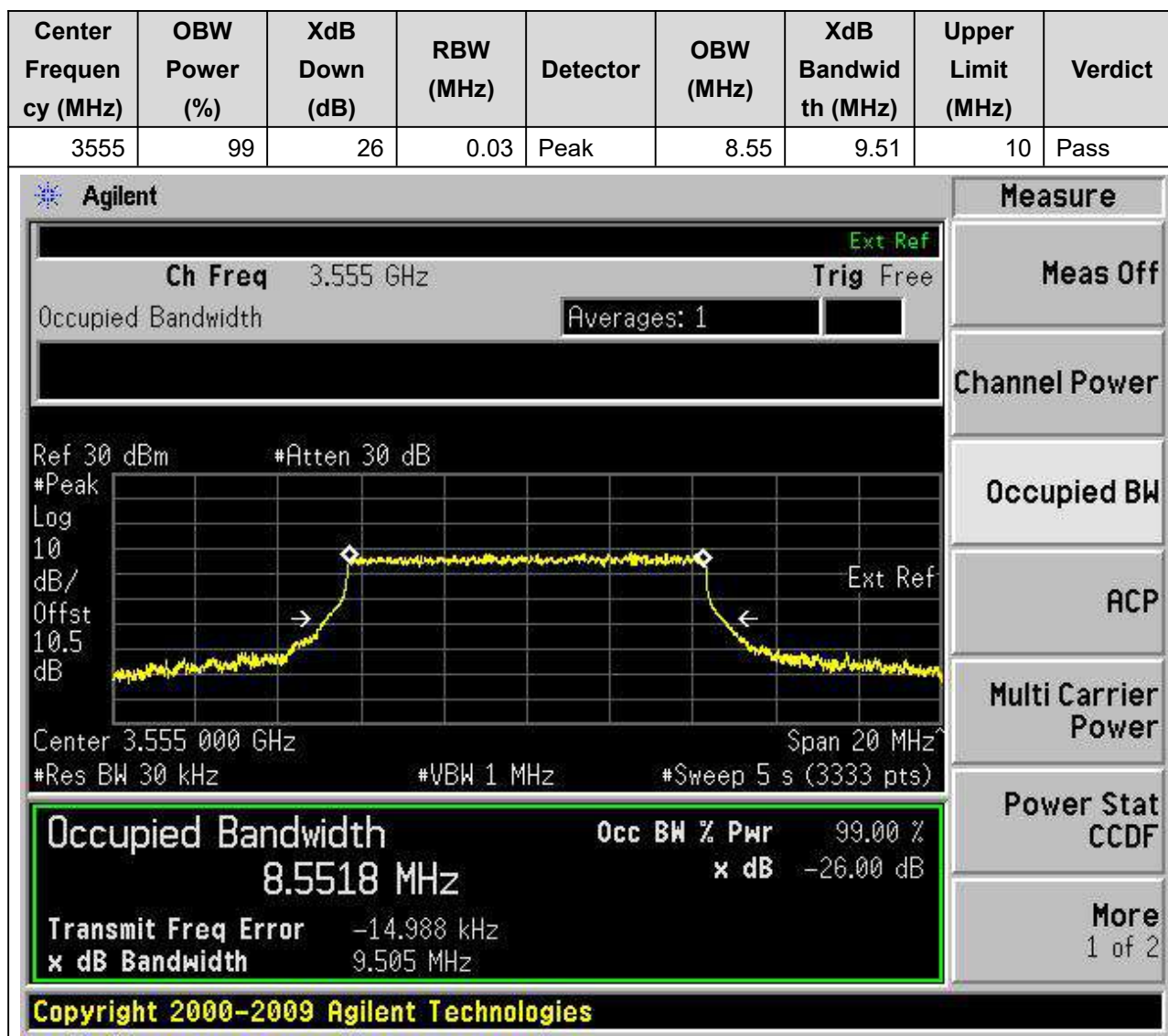
2.8 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:24, RB Position:0)



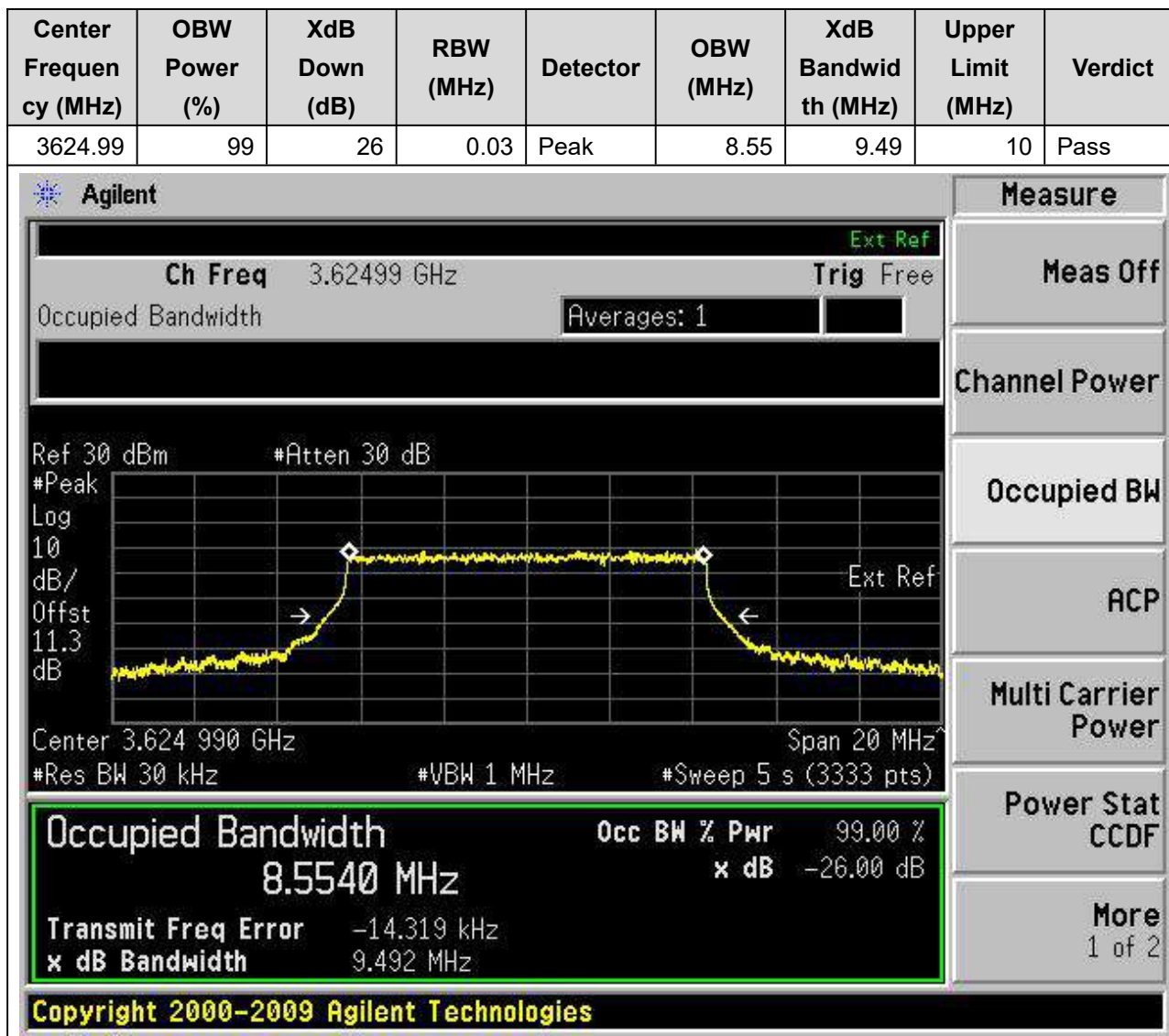
2.9 Occupied Bandwidth for SA_Part96(NTNV)(Channel:646332, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:24, RB Position:0)



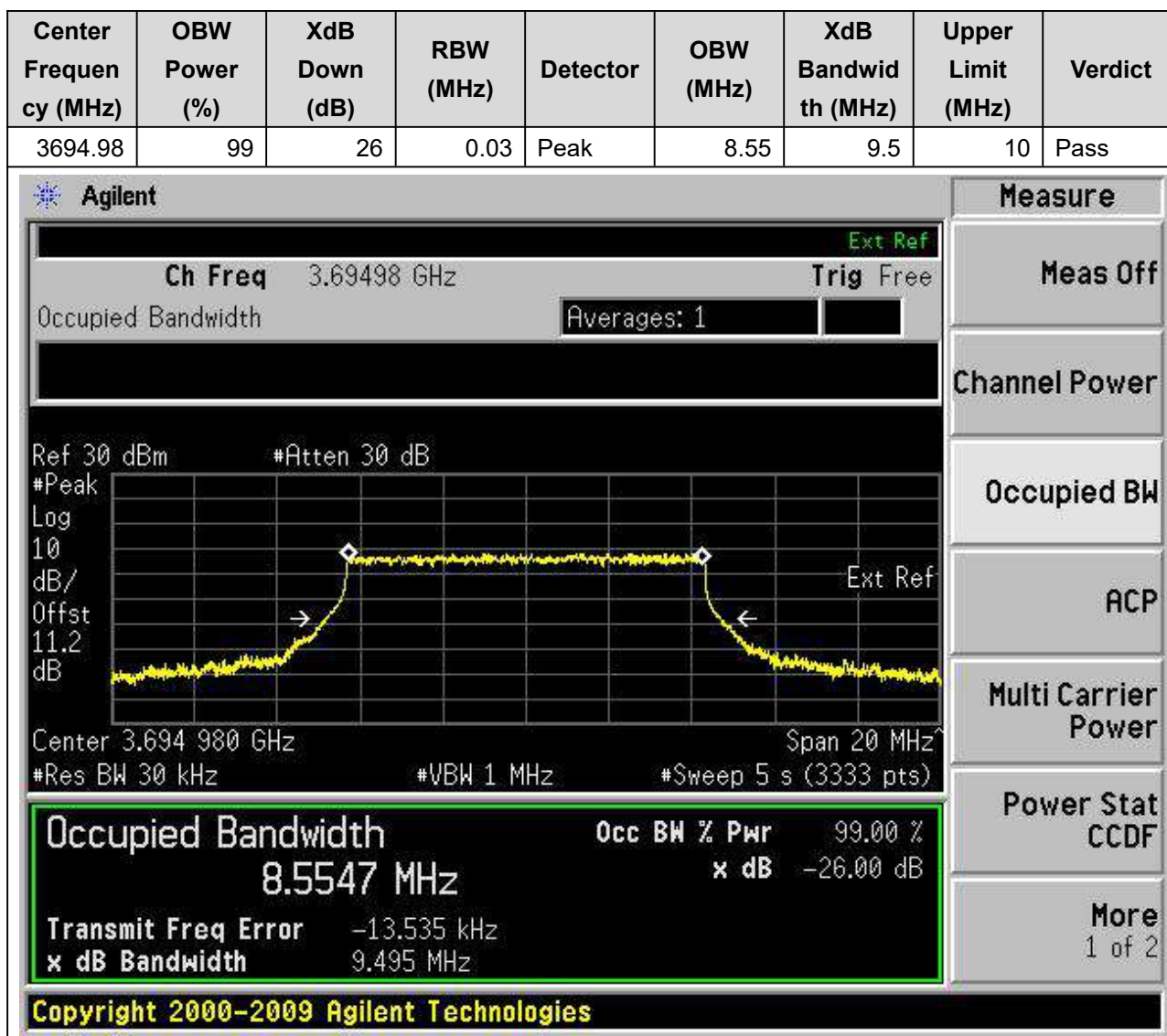
2.10 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637000, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:24, RB Position:0)



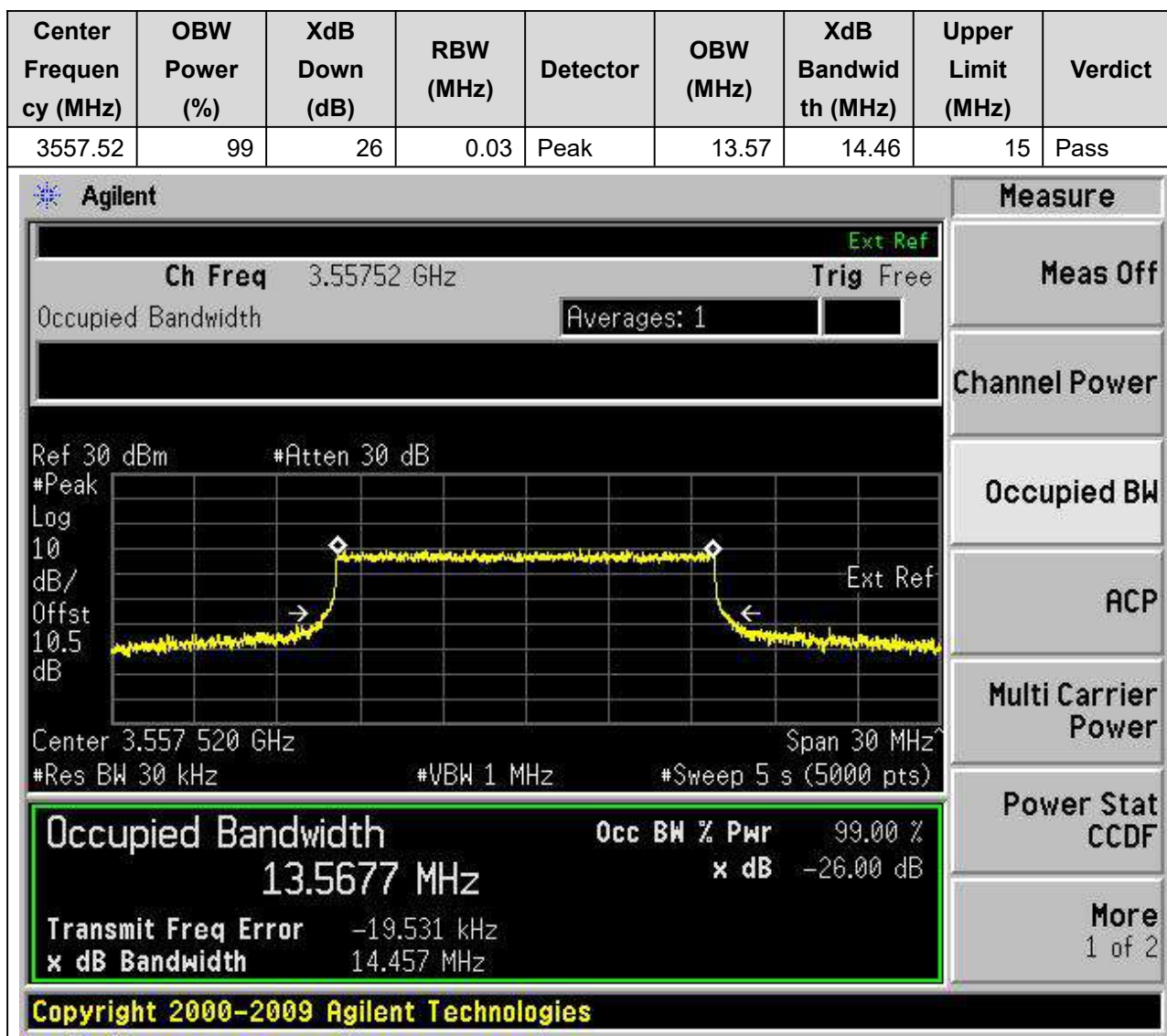
2.11 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:24, RB Position:0)



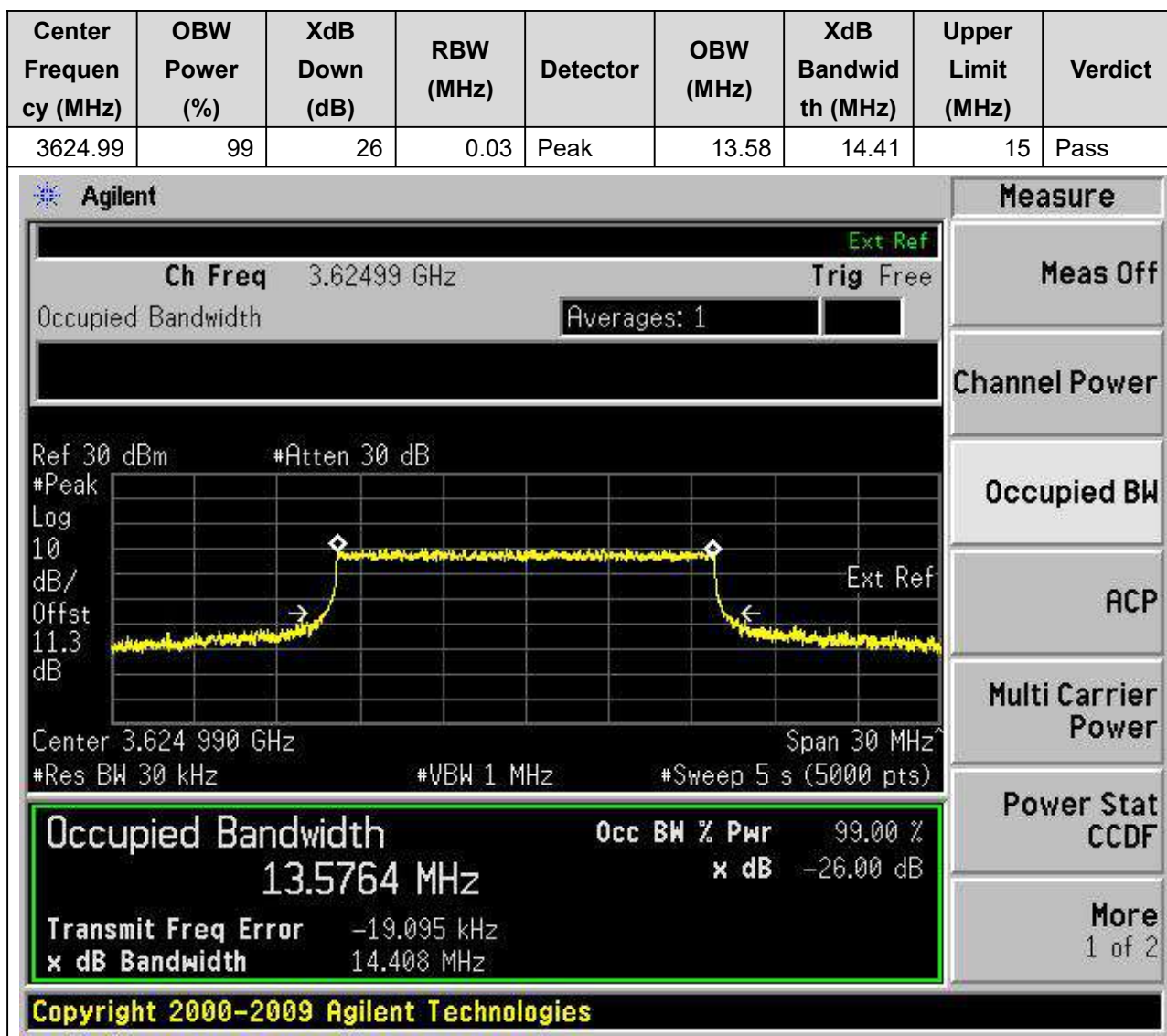
2.12 Occupied Bandwidth for SA_Part96(NTNV)(Channel:646332, Bandwidth:10, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:24, RB Position:0)



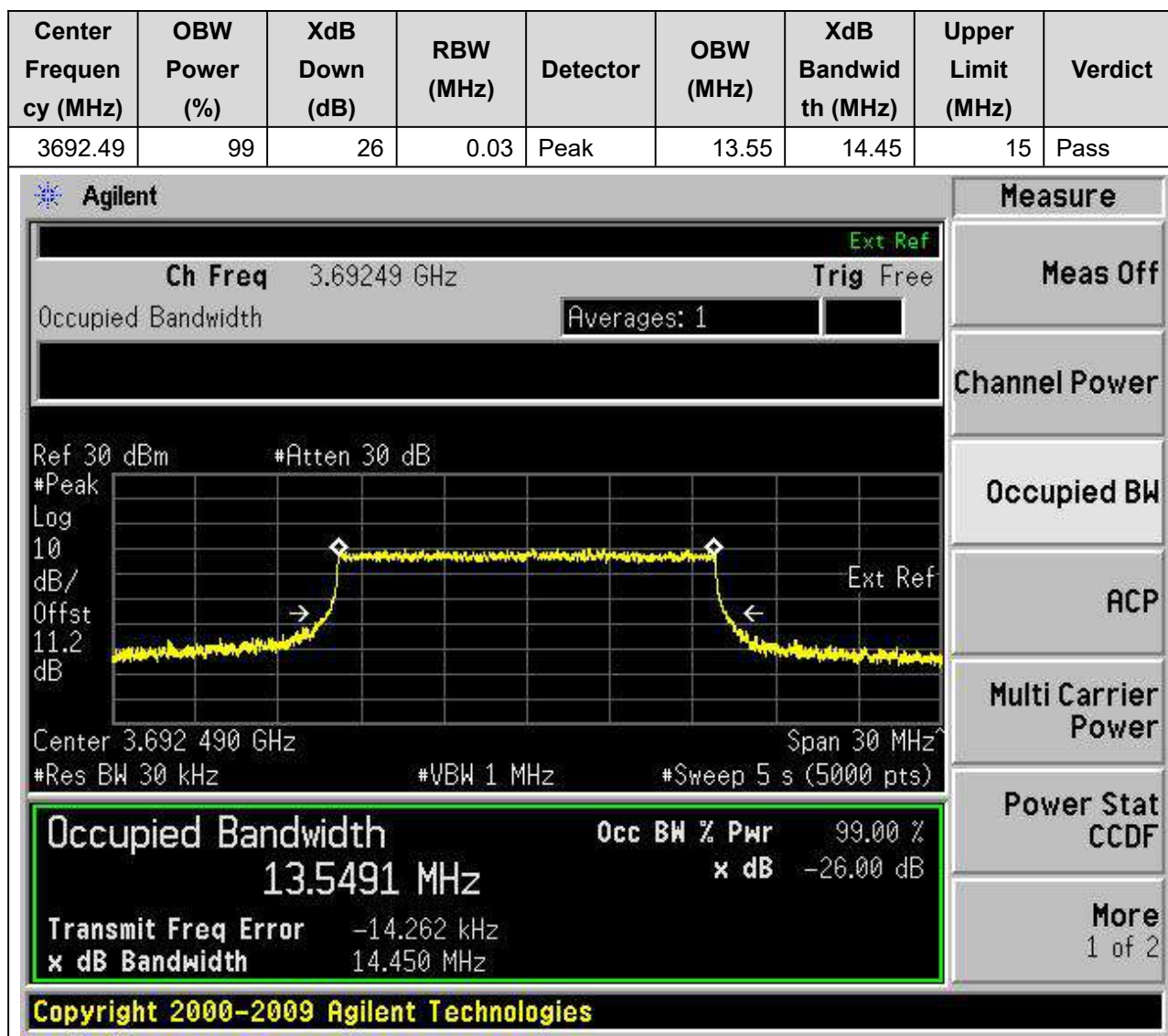
2.13 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637168, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:38, RB Position:0)



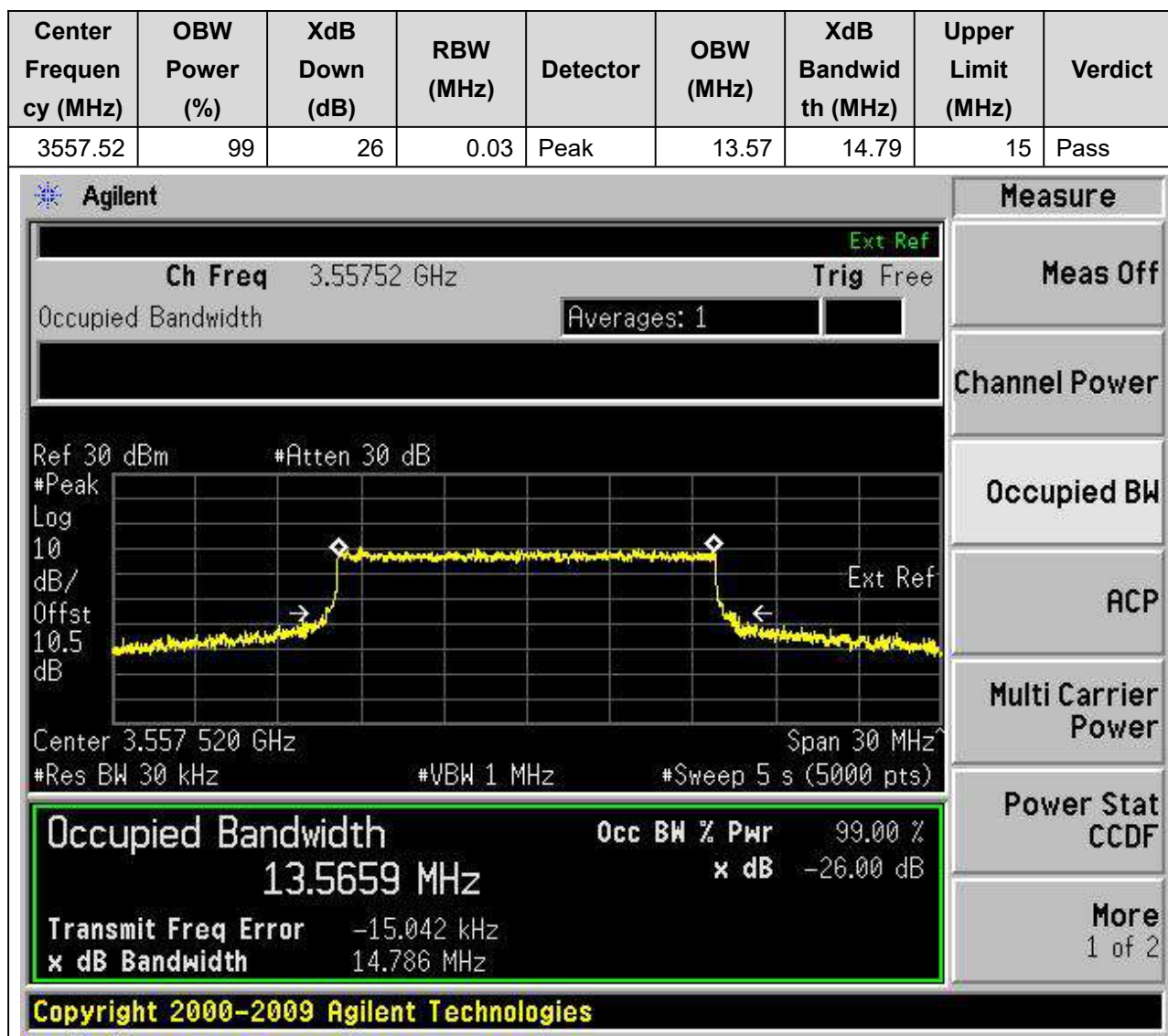
2.14 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:38, RB Position:0)



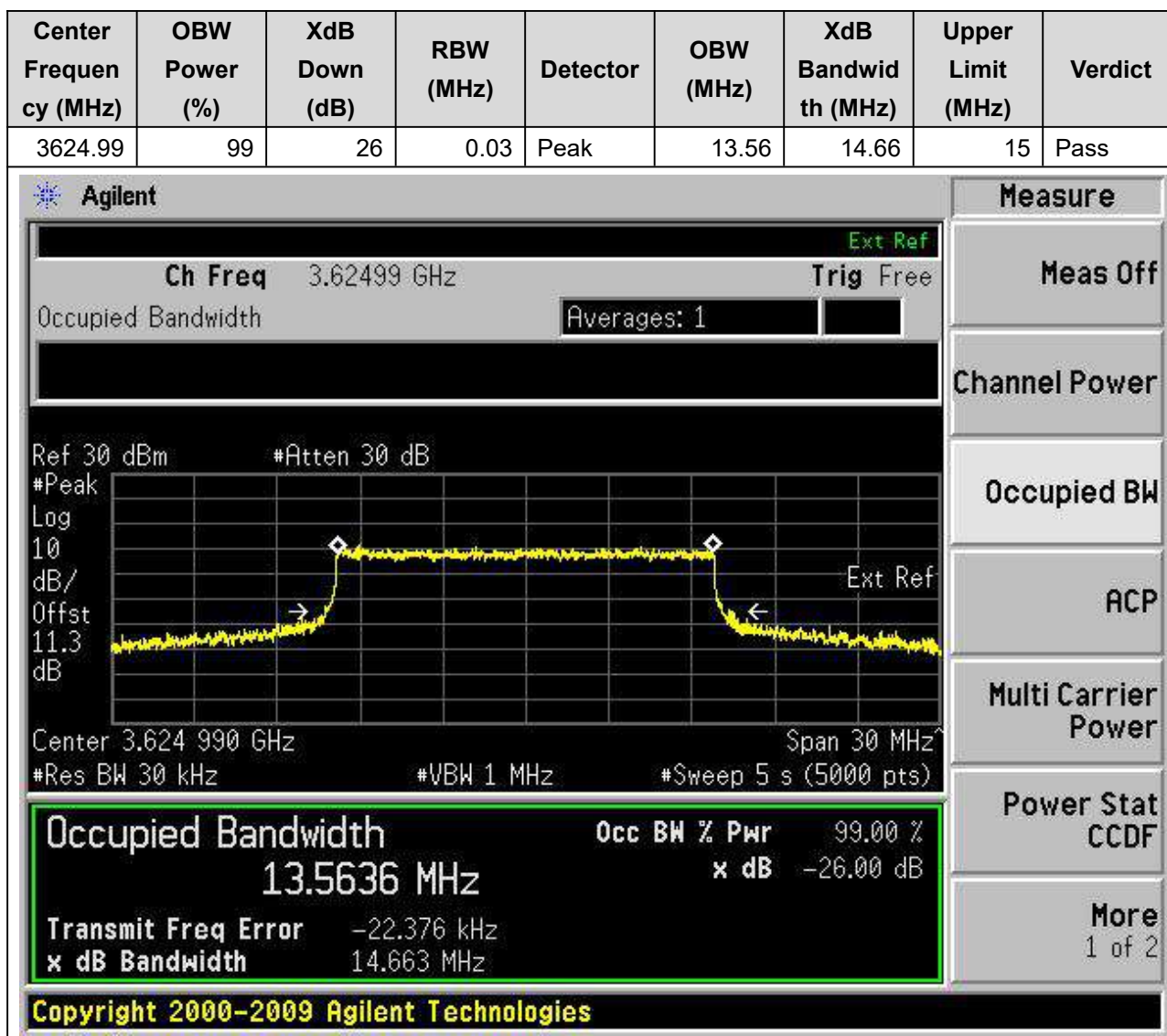
2.15 Occupied Bandwidth for SA_Part96(NTNV)(Channel:646166, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:38, RB Position:0)



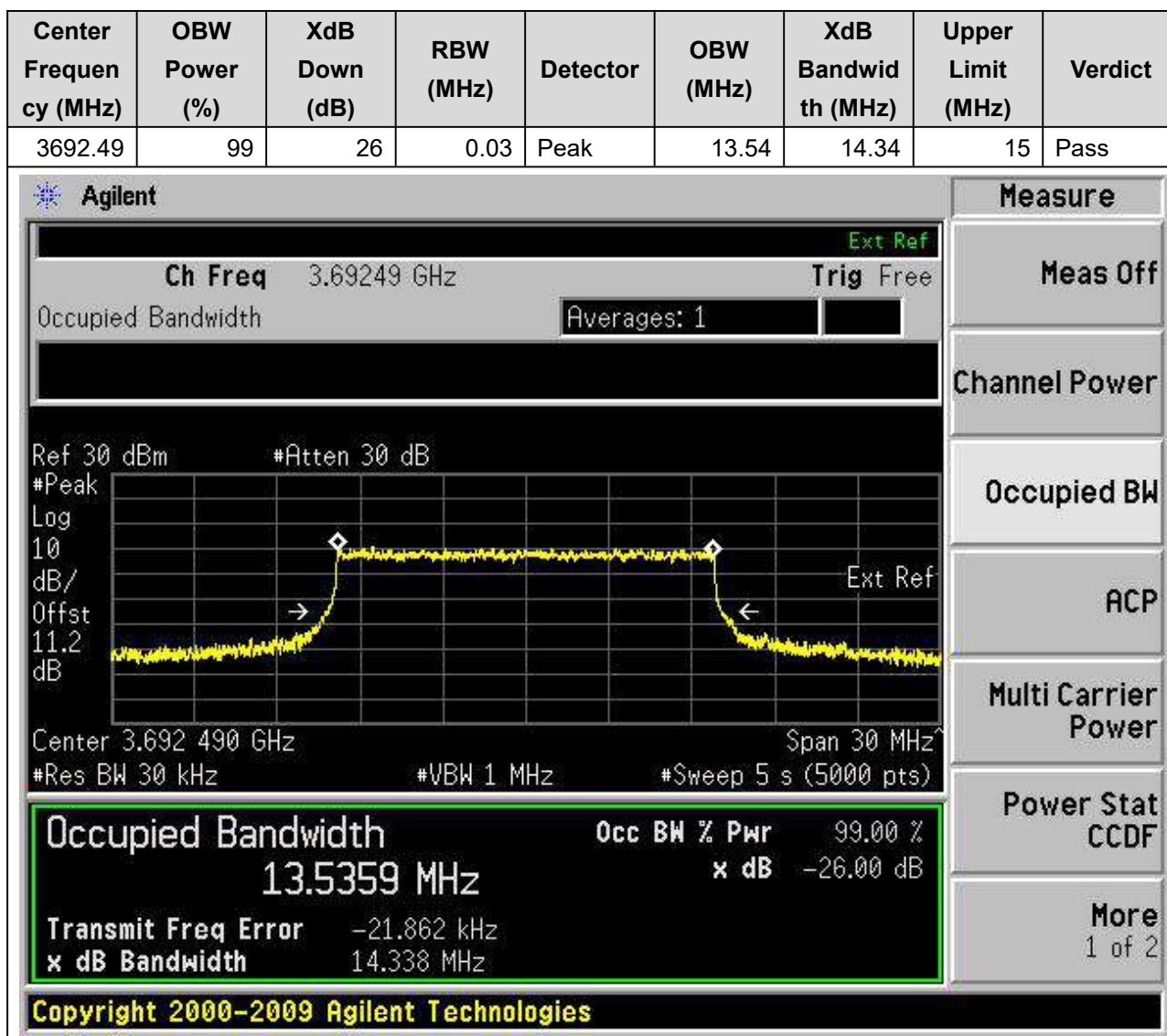
2.16 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637168, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:38, RB Position:0)



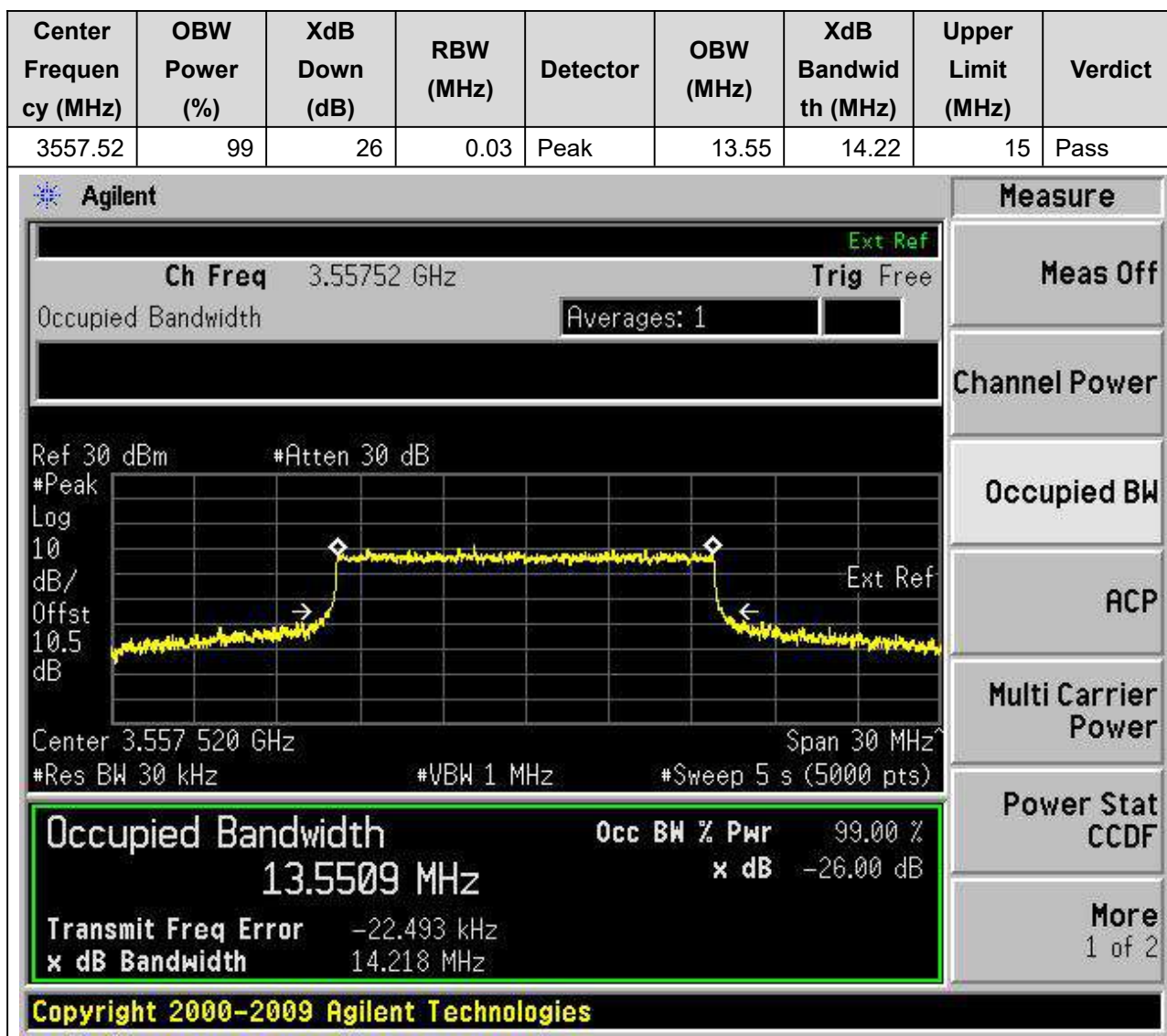
2.17 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:38, RB Position:0)



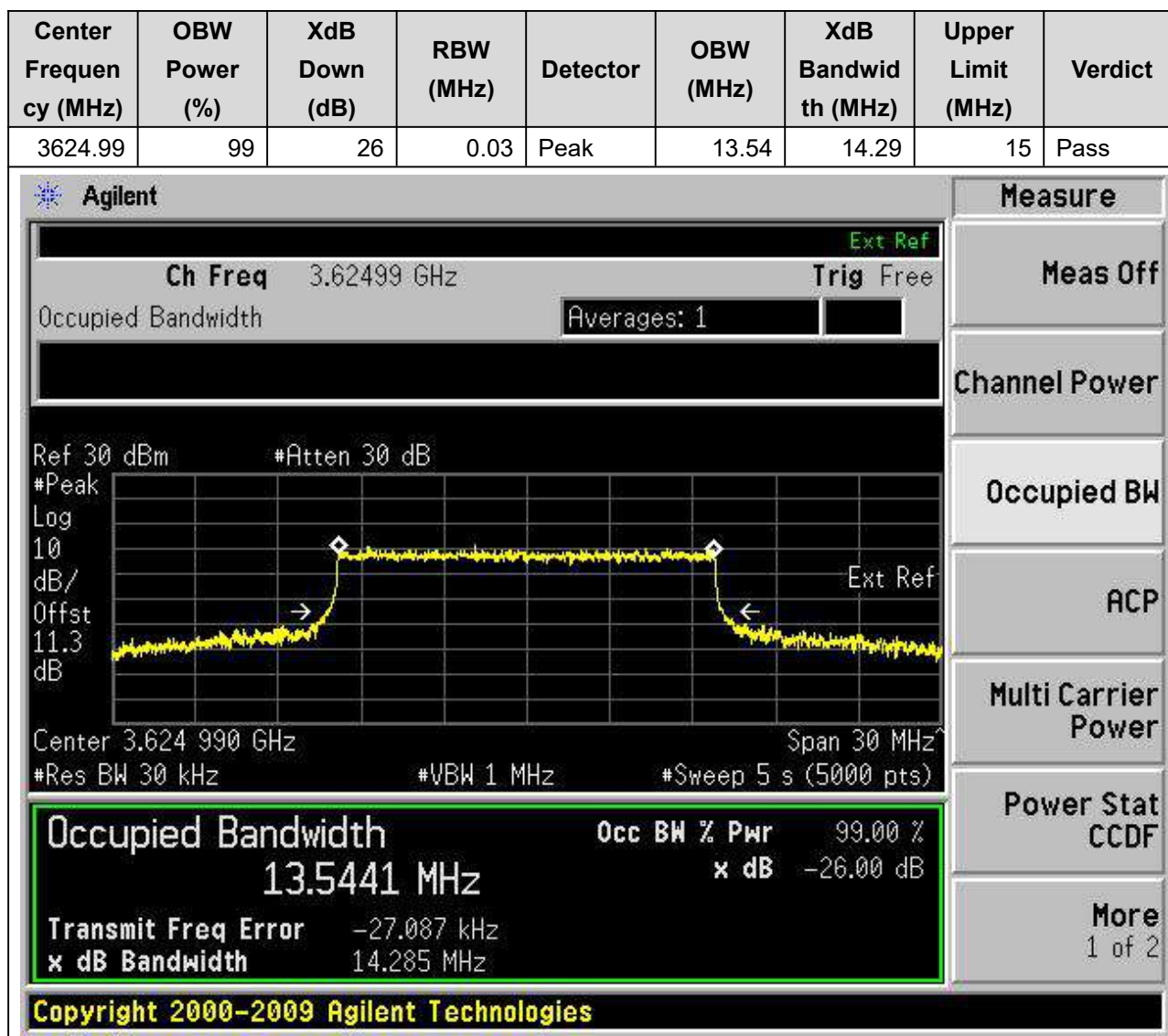
2.18 Occupied Bandwidth for SA_Part96(NTNV)(Channel:646166, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:38, RB Position:0)



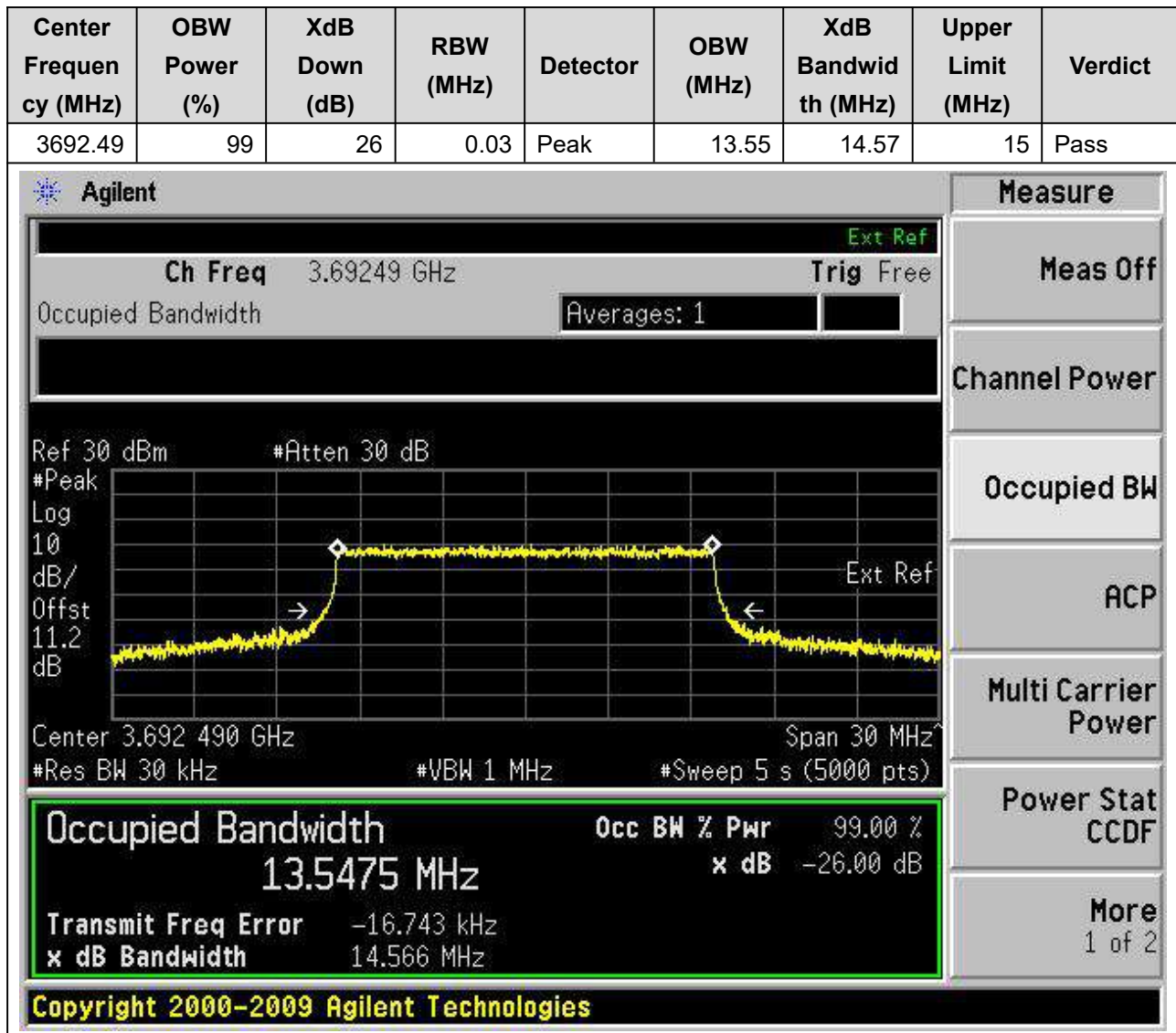
2.19 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637168, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:38, RB Position:0)



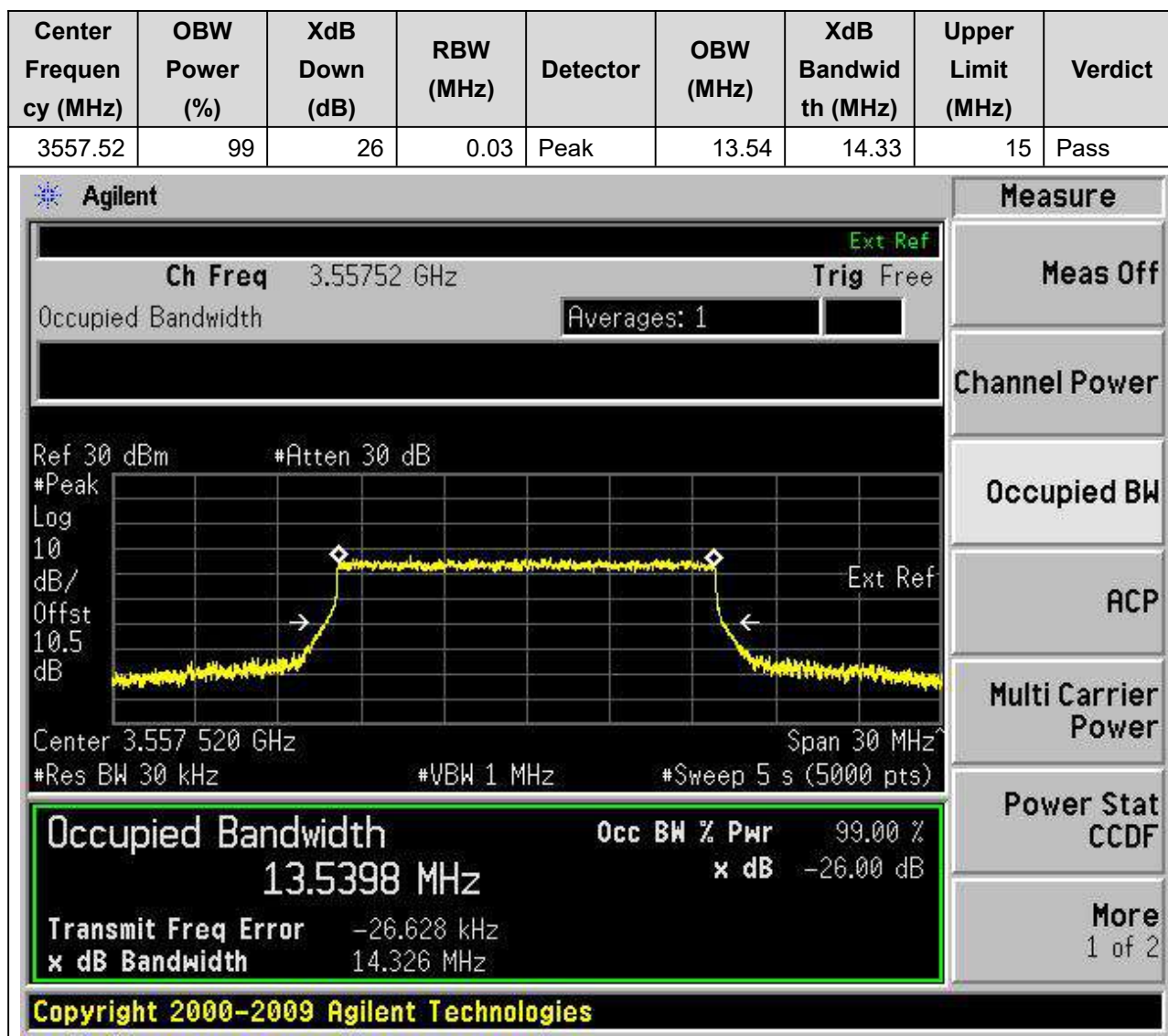
2.20 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:38, RB Position:0)



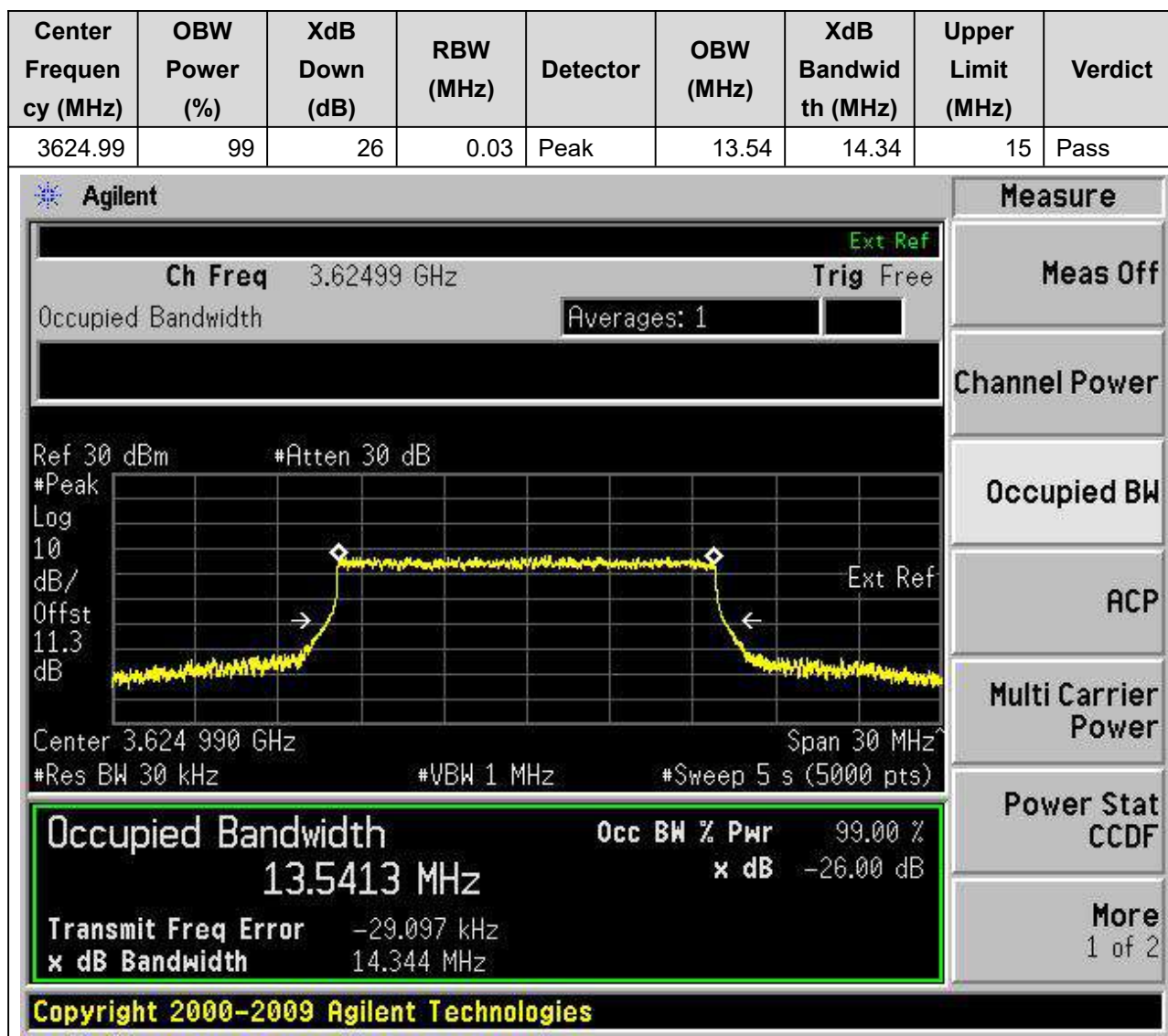
2.21 Occupied Bandwidth for SA_Part96(NTNV)(Channel:646166, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:38, RB Position:0)



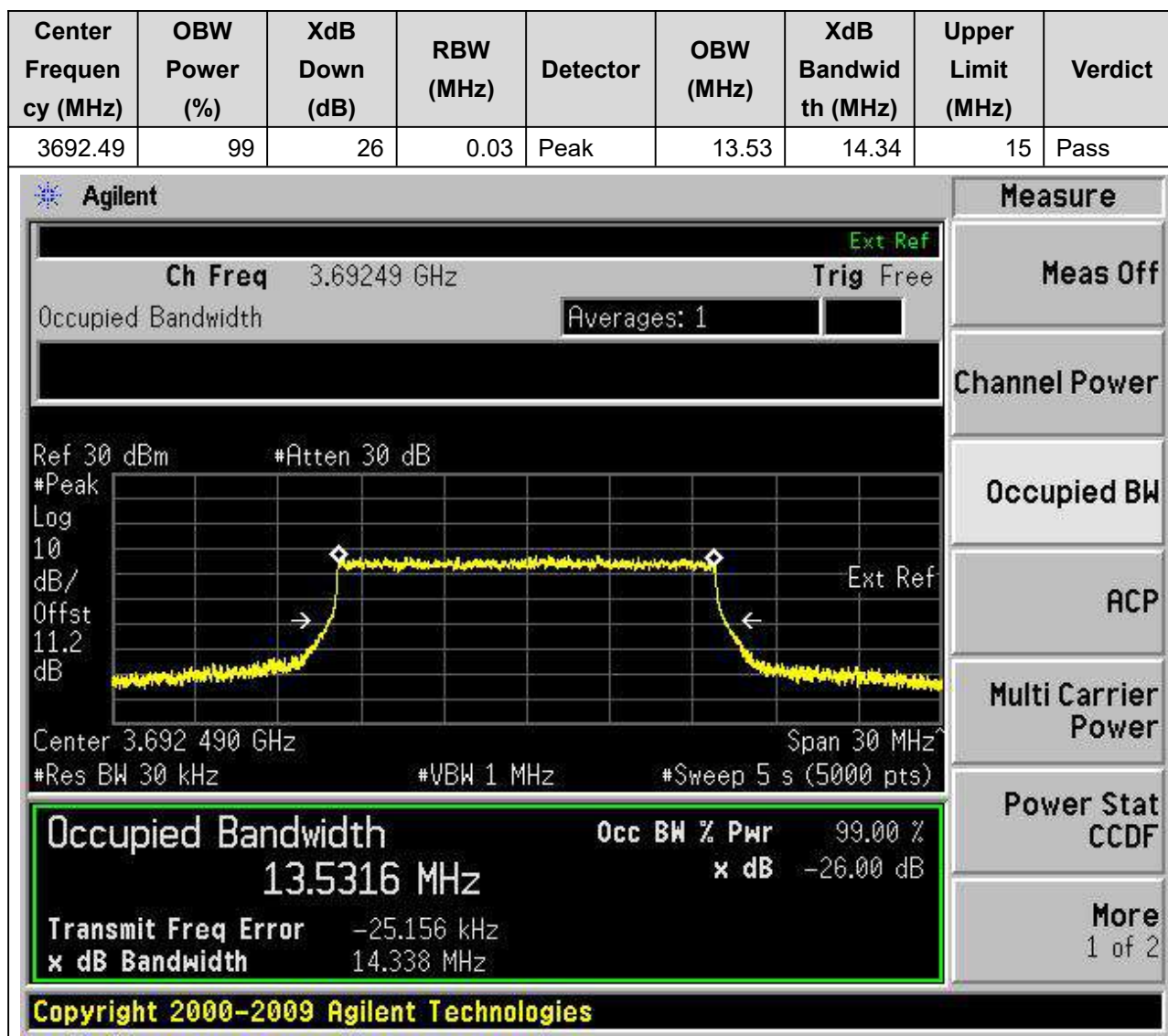
2.22 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637168, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:38, RB Position:0)



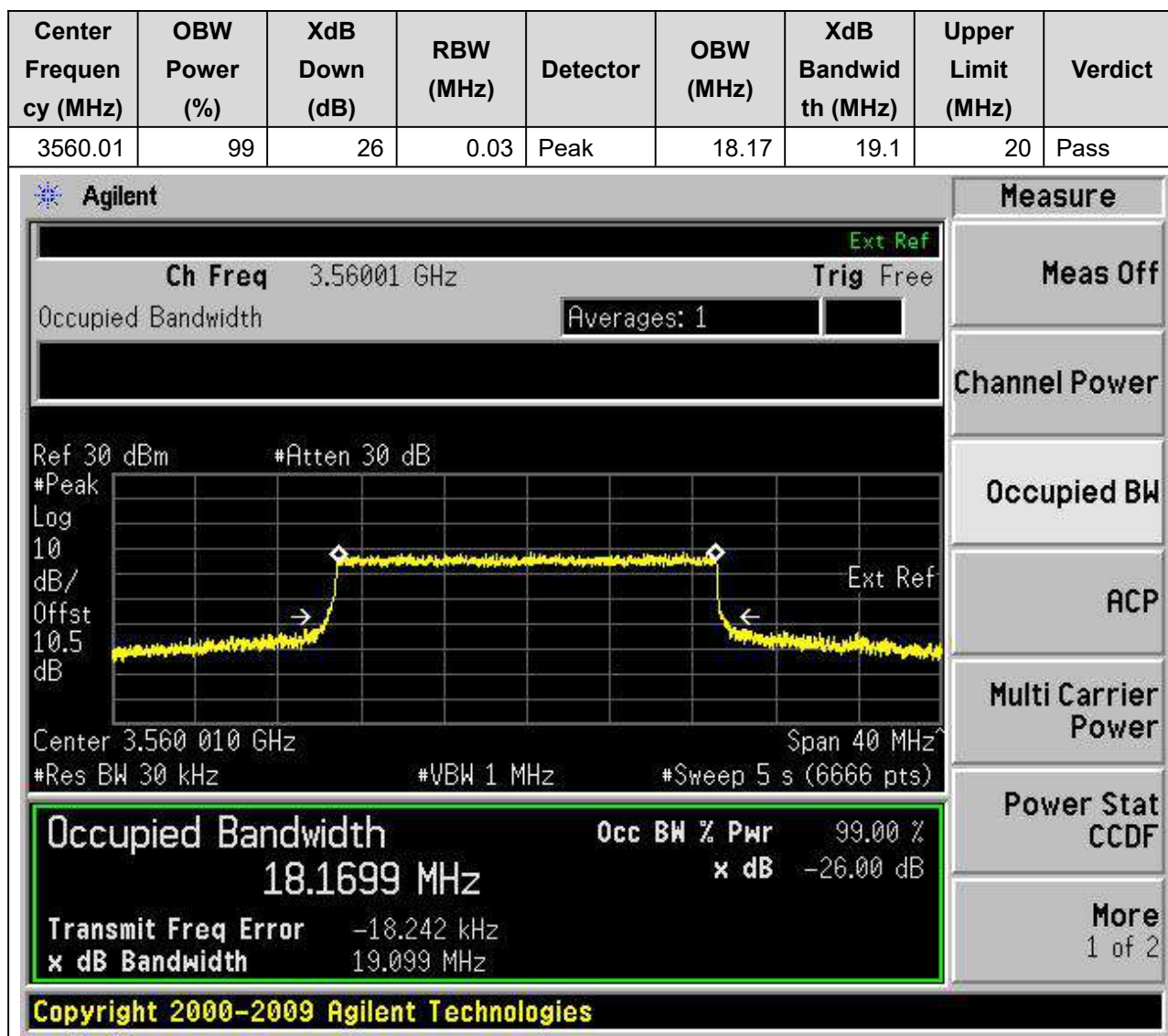
2.23 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:38, RB Position:0)



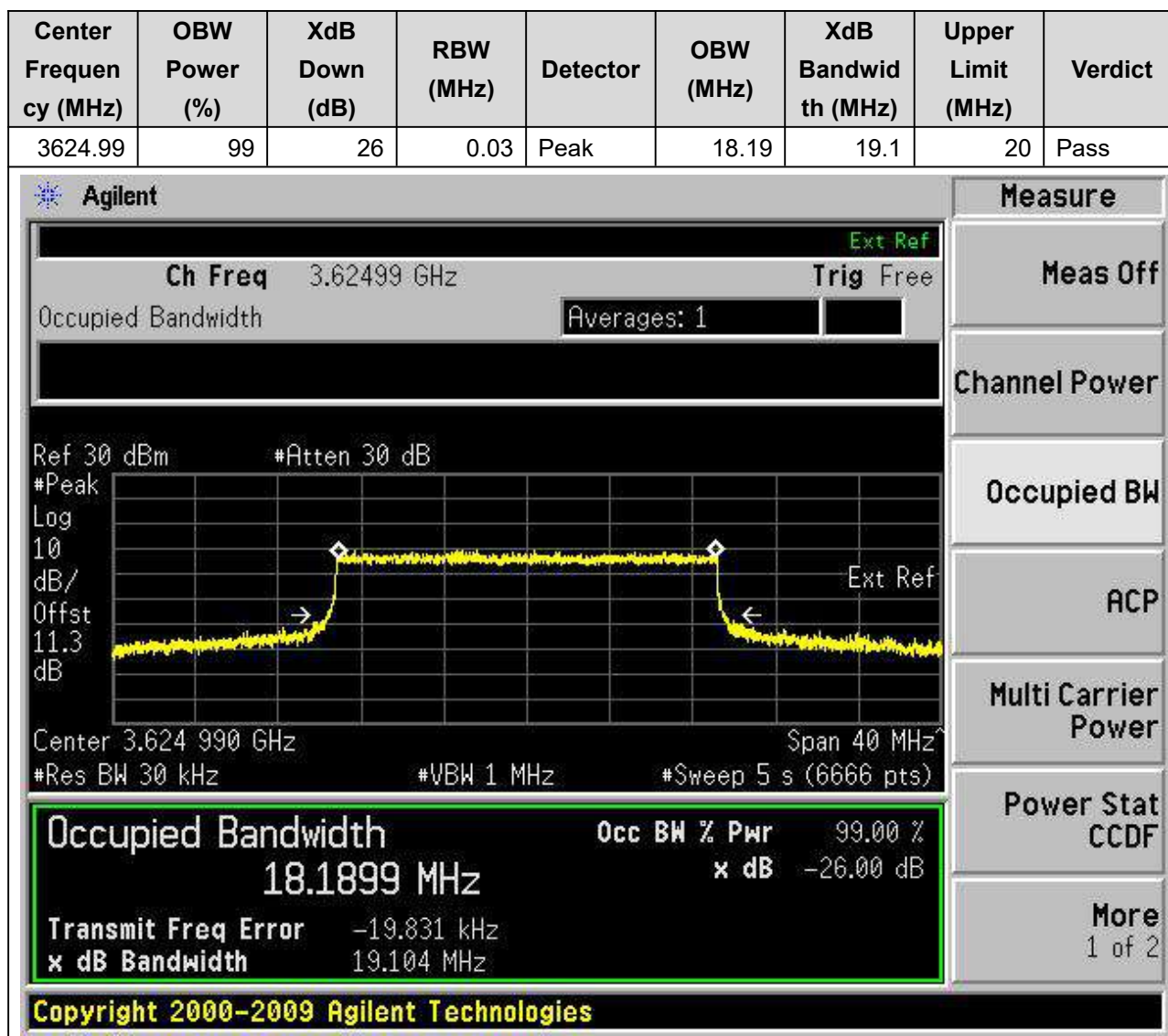
2.24 Occupied Bandwidth for SA_Part96(NTNV)(Channel:646166, Bandwidth:15, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:38, RB Position:0)



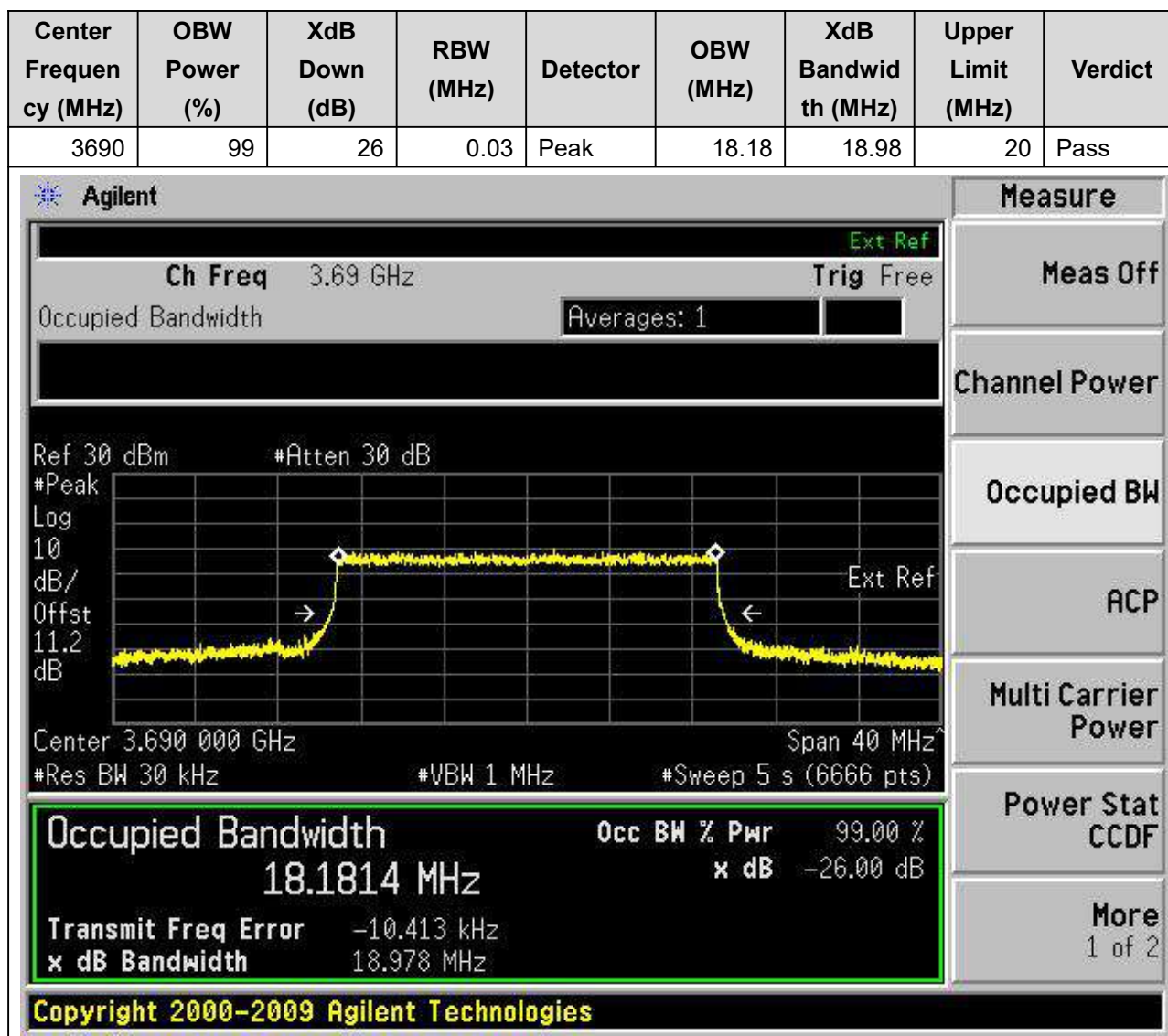
2.25 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:51, RB Position:0)



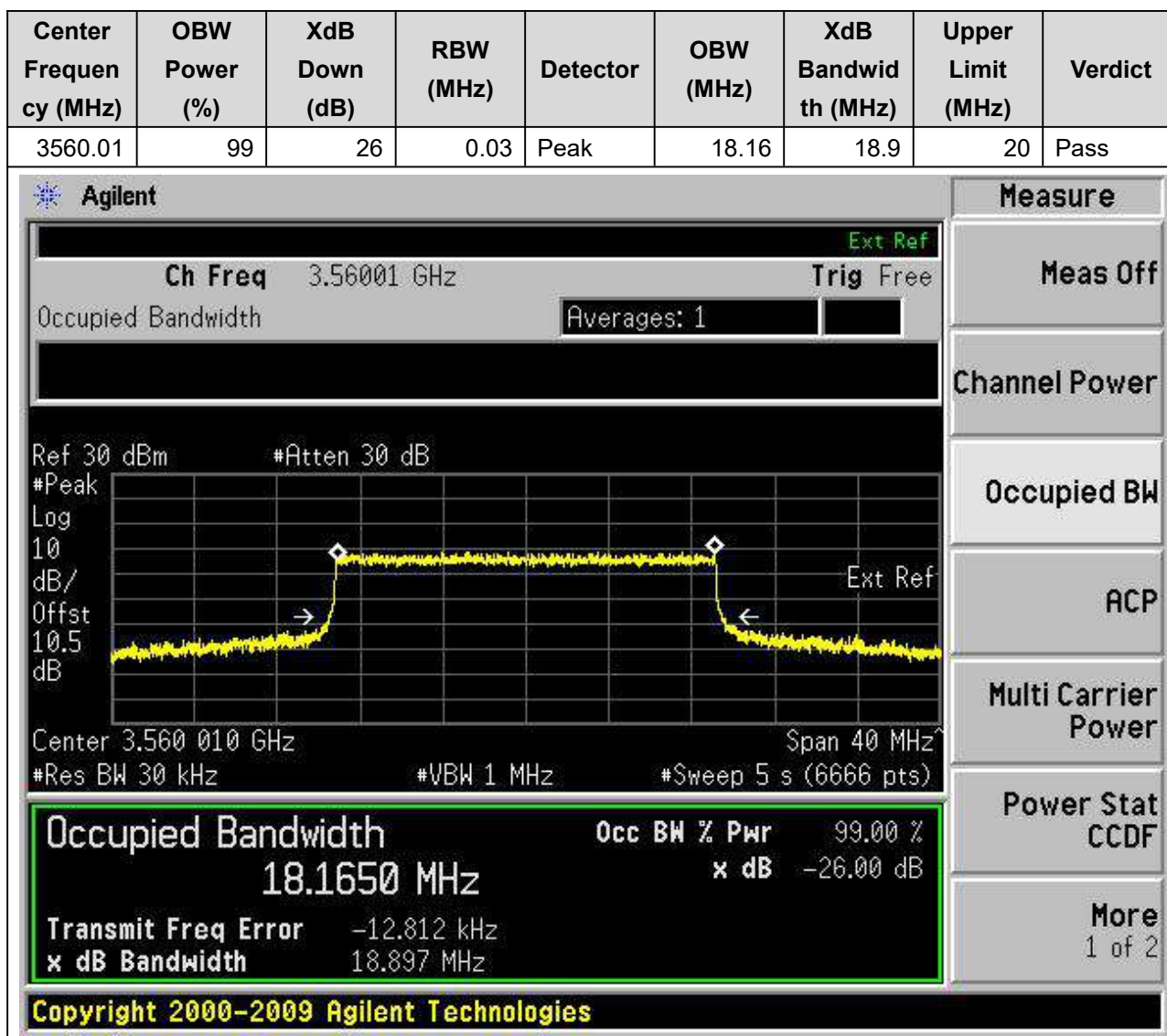
2.26 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:51, RB Position:0)



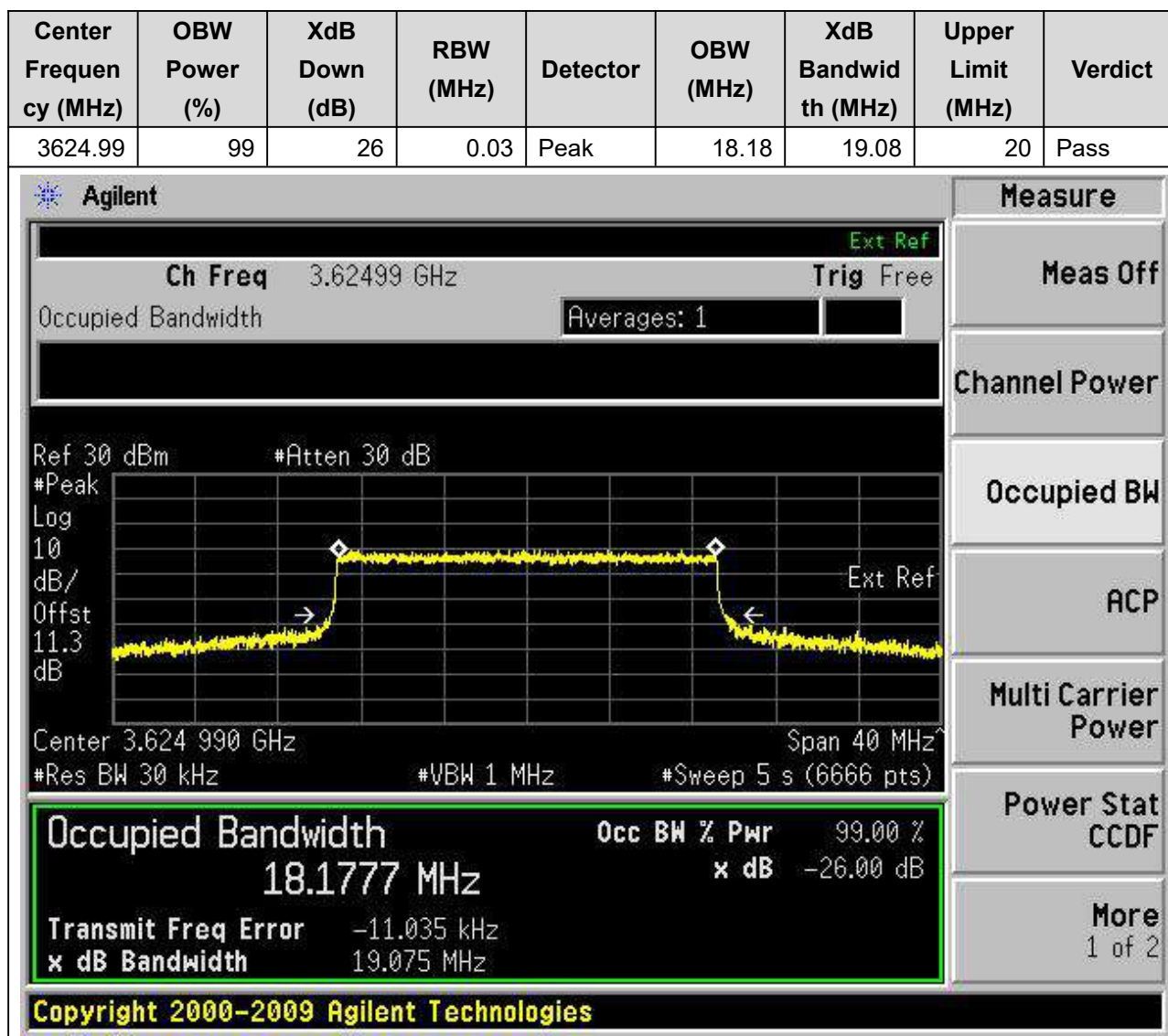
2.27 Occupied Bandwidth for SA_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:51, RB Position:0)



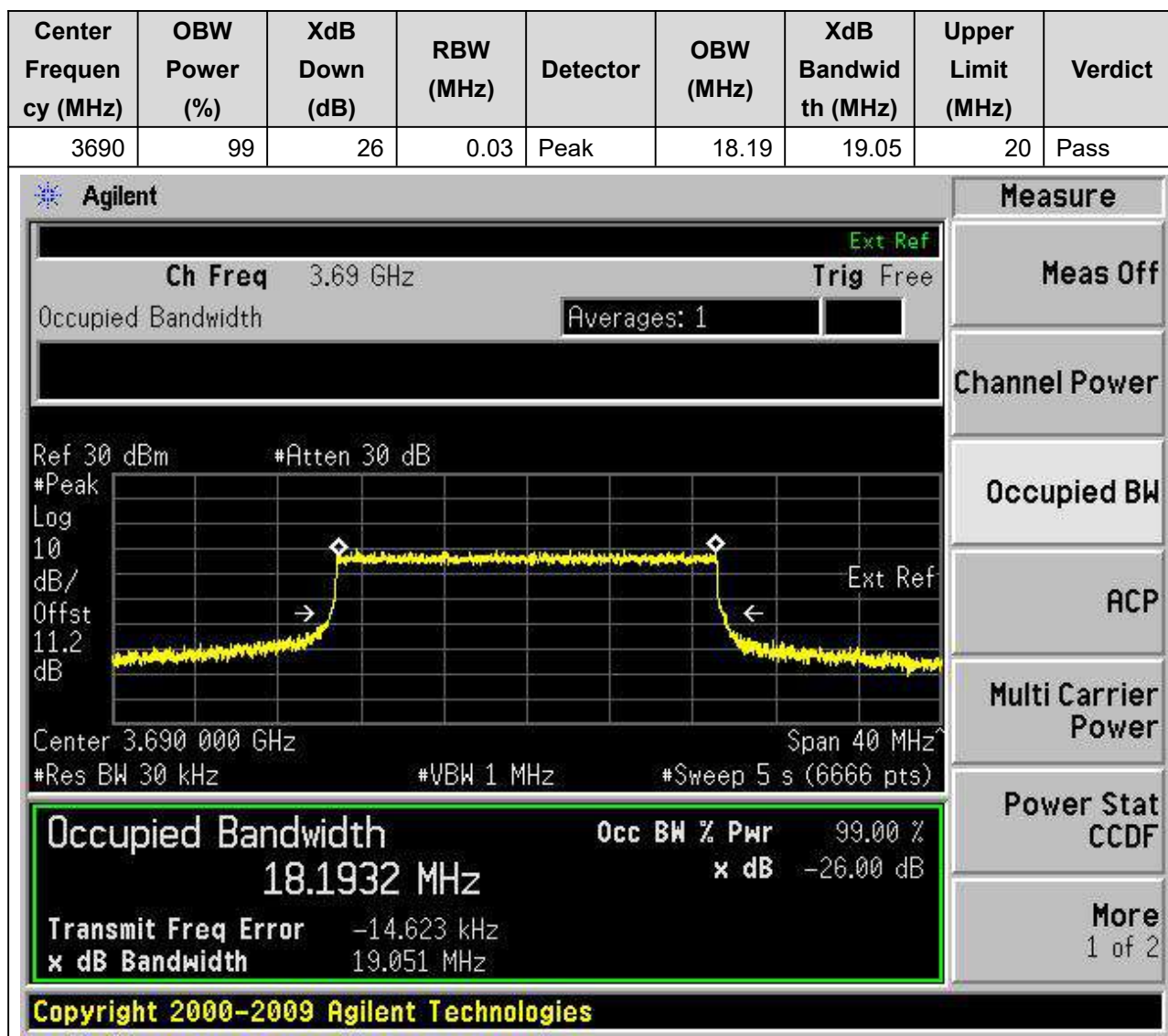
2.28 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:51, RB Position:0)



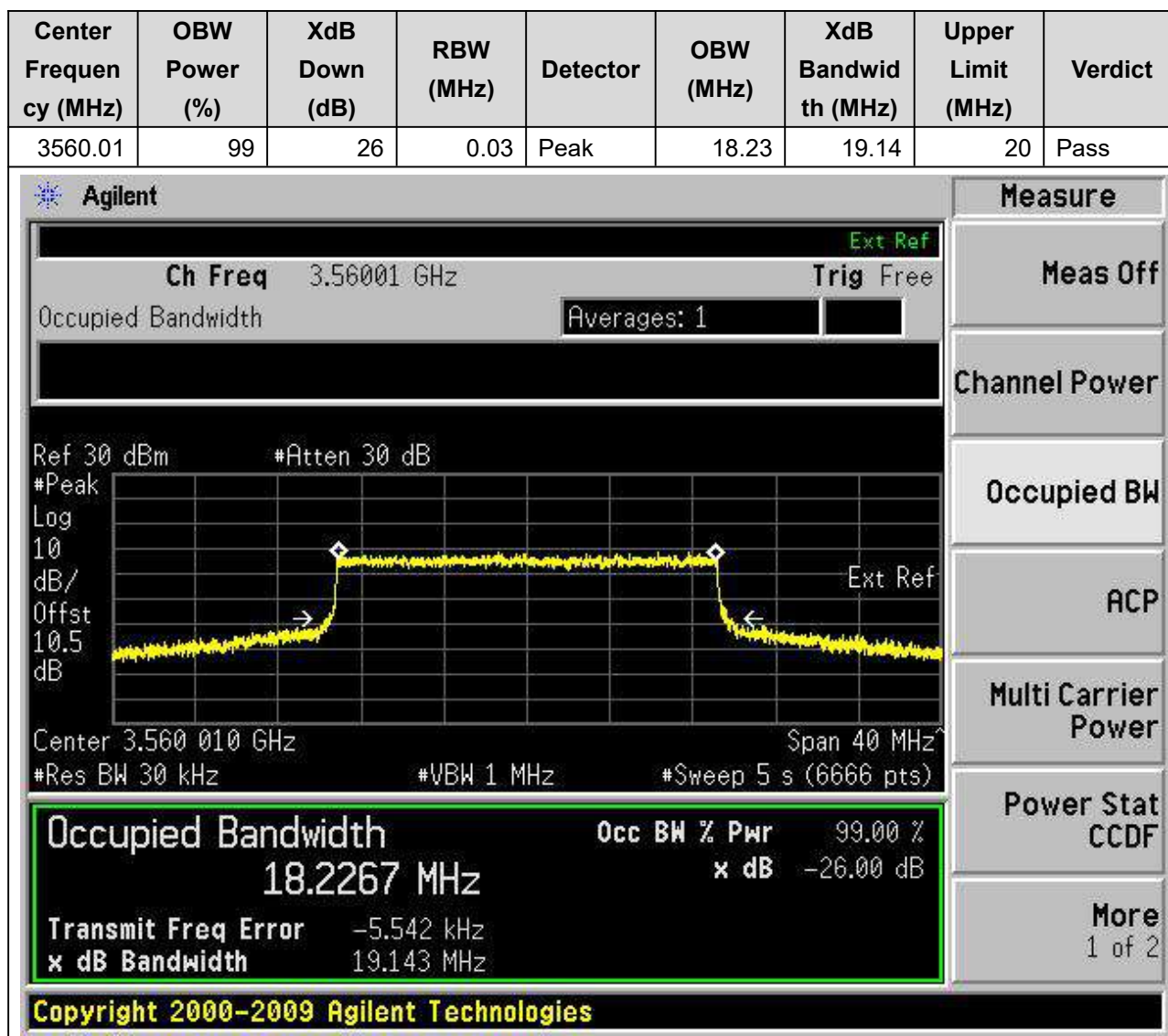
2.29 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:51, RB Position:0)



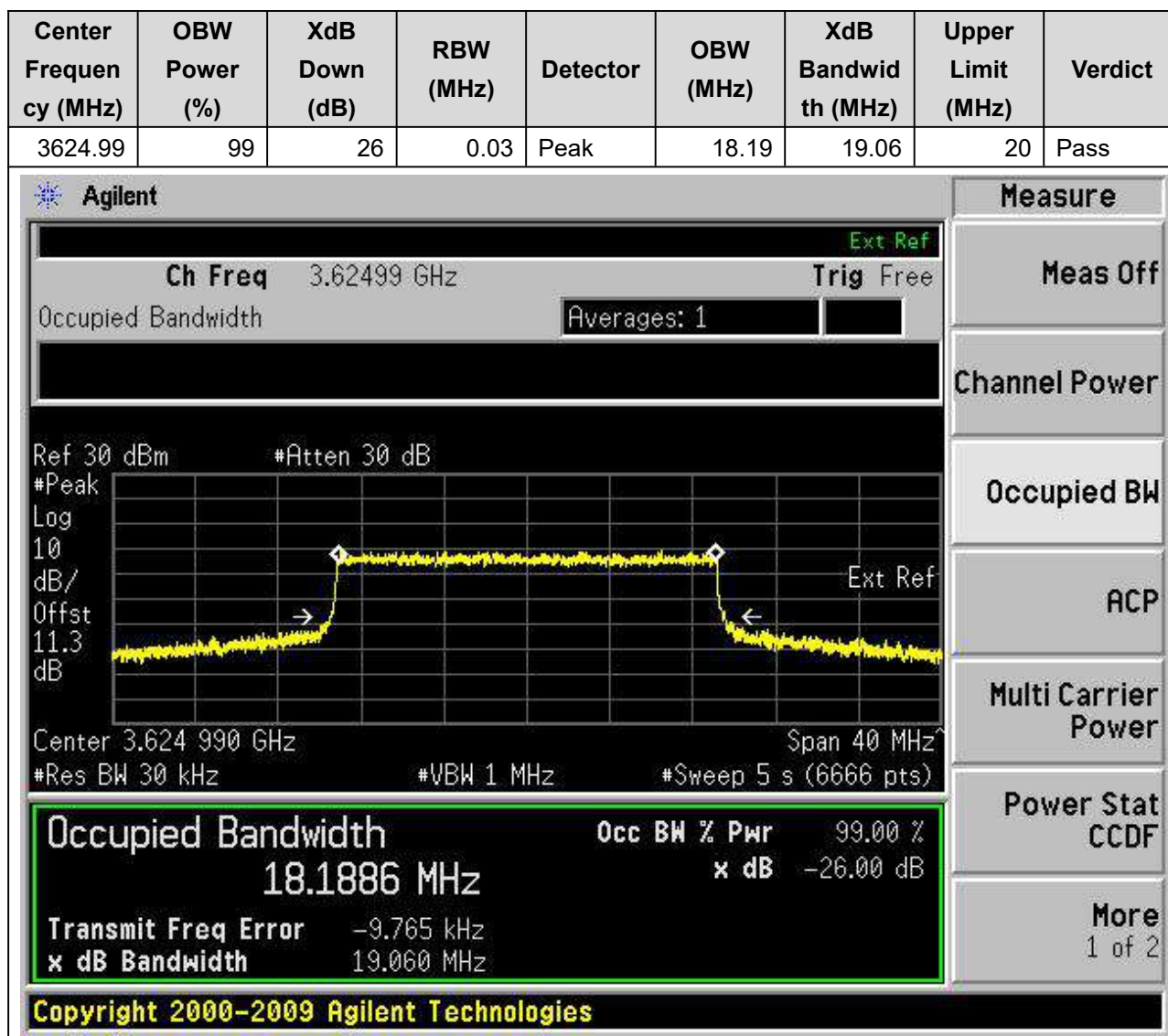
2.30 Occupied Bandwidth for SA_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:51, RB Position:0)



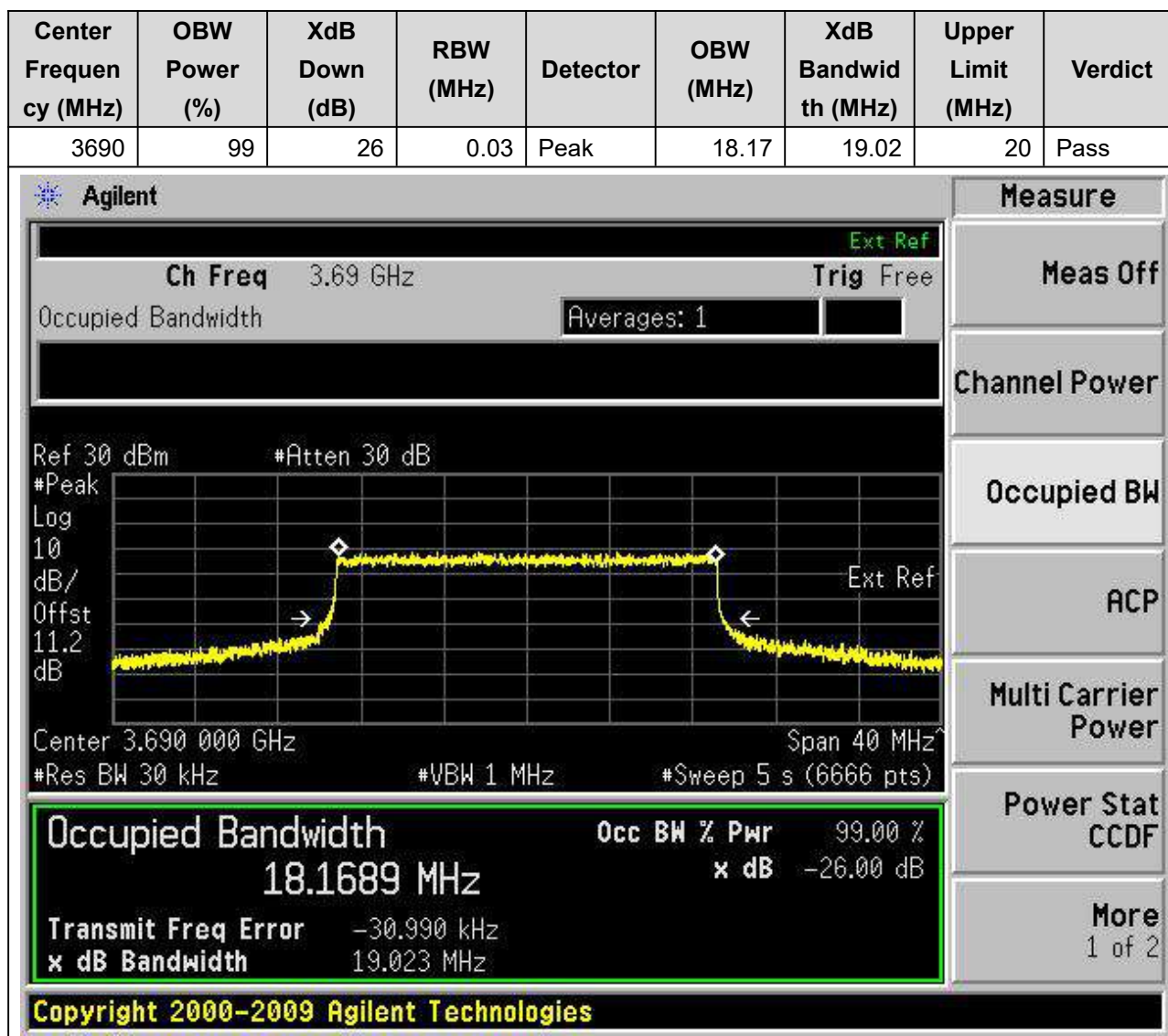
2.31 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:51, RB Position:0)



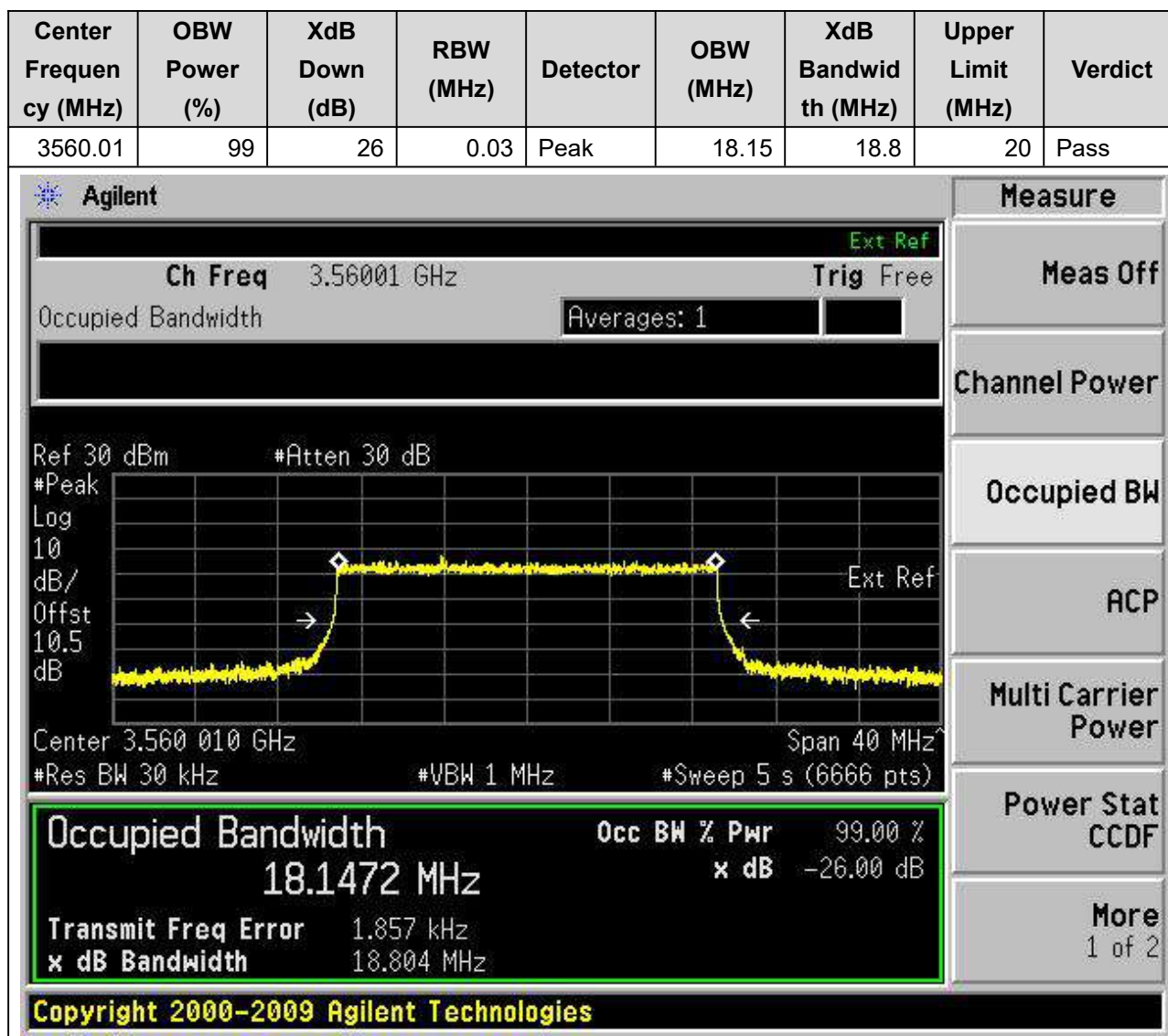
2.32 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:51, RB Position:0)



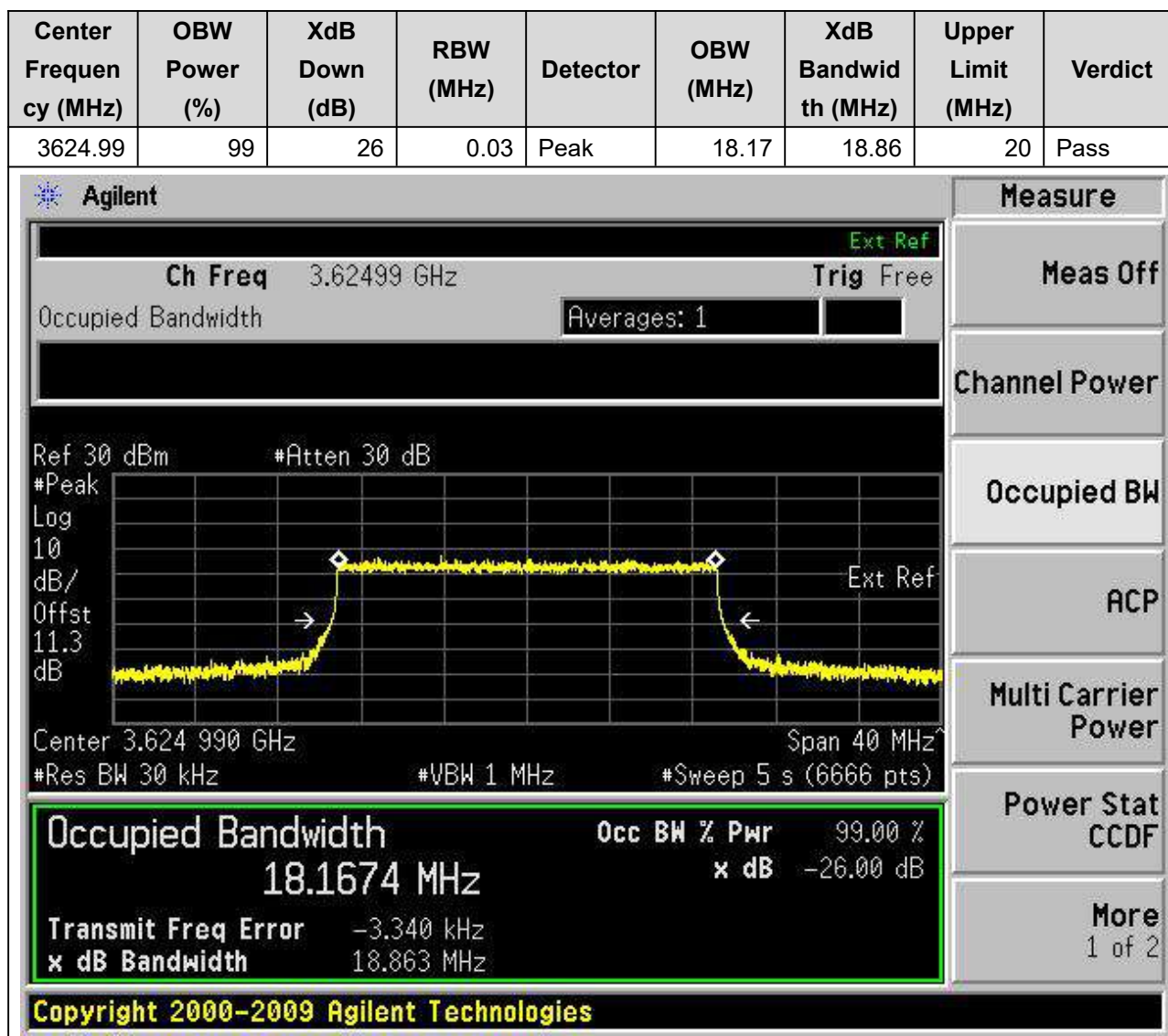
2.33 Occupied Bandwidth for SA_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:51, RB Position:0)



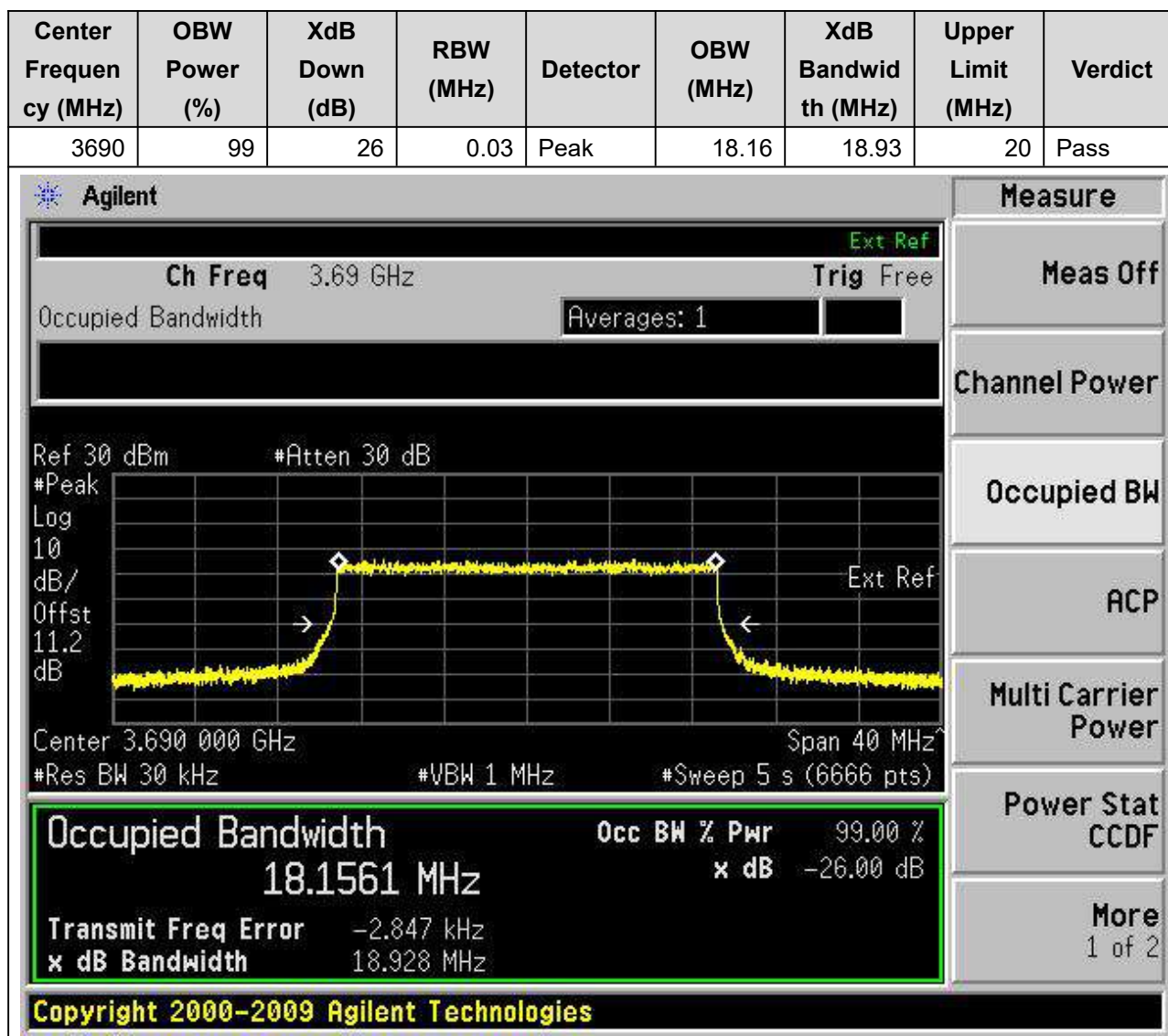
2.34 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:51, RB Position:0)



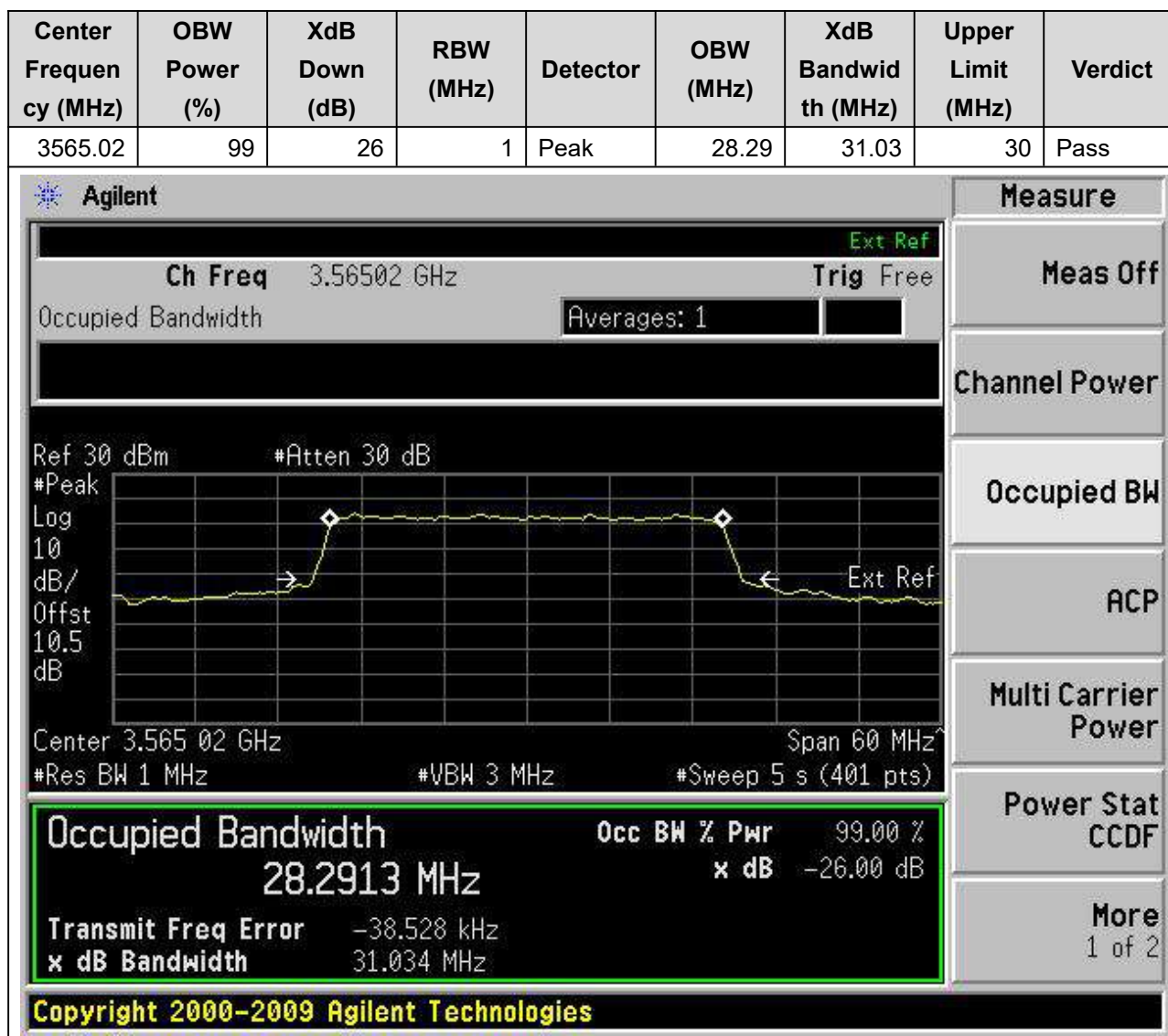
2.35 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:51, RB Position:0)



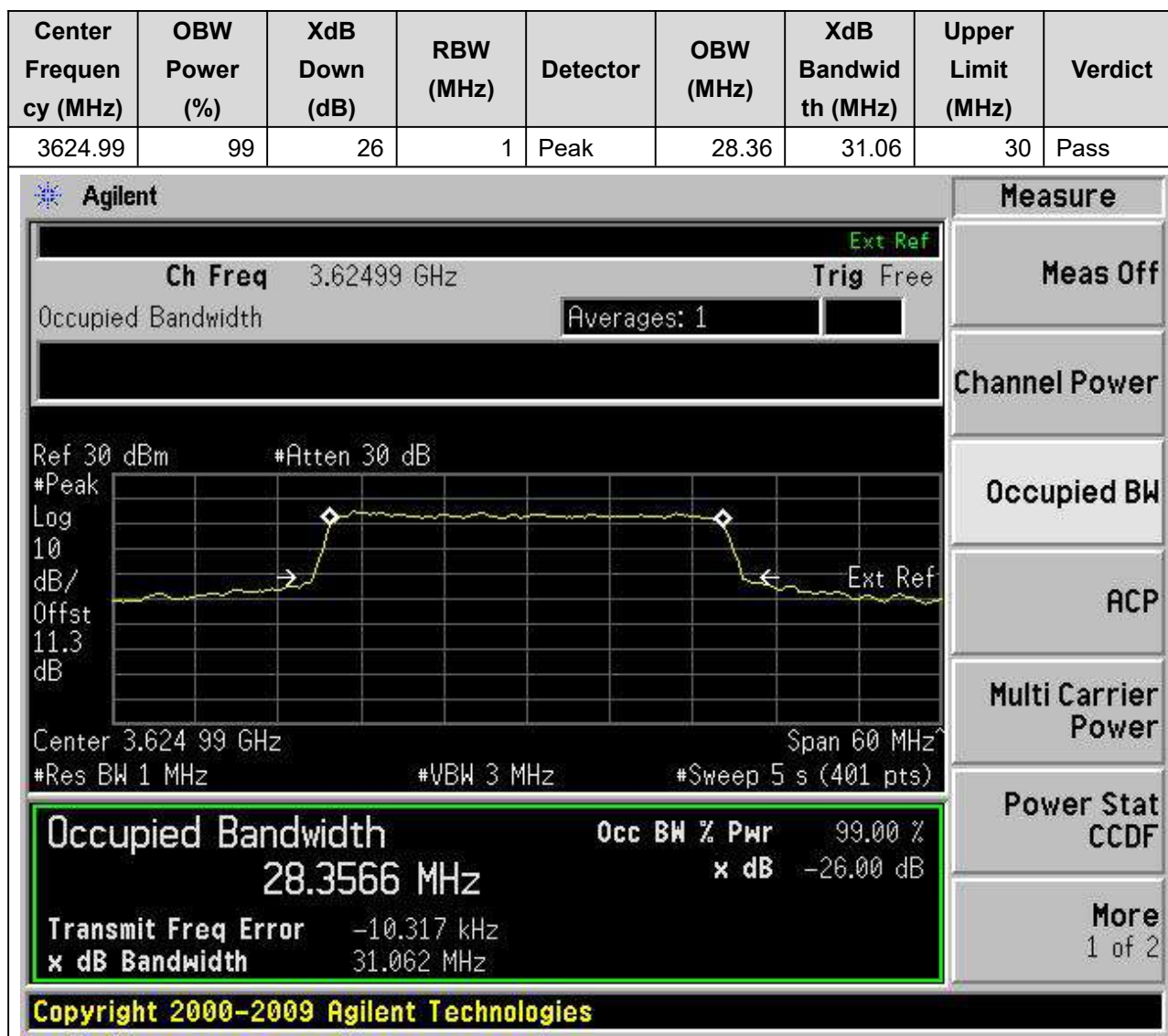
2.36 Occupied Bandwidth for SA_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:51, RB Position:0)



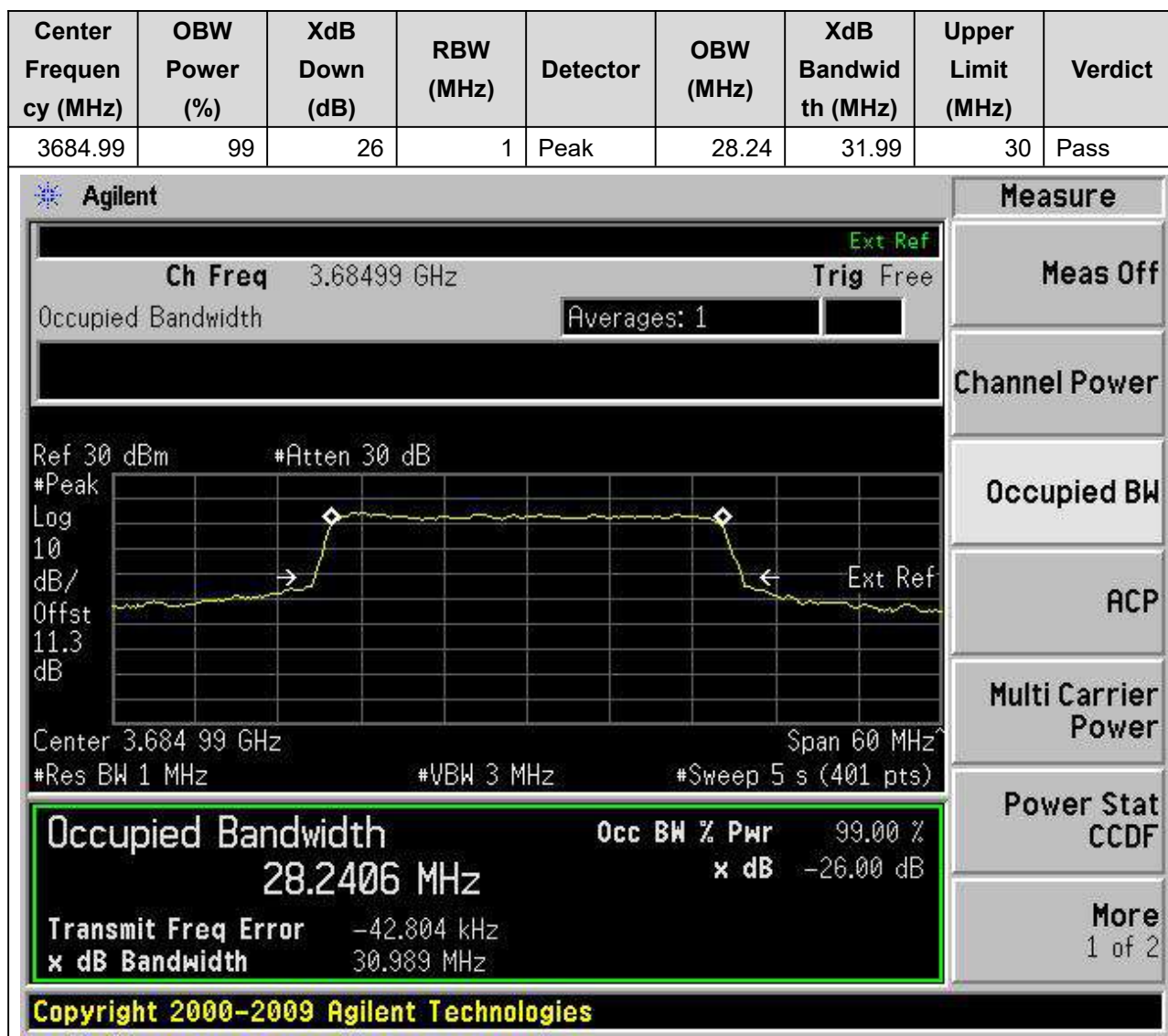
2.37 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637668, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:78, RB Position:0)



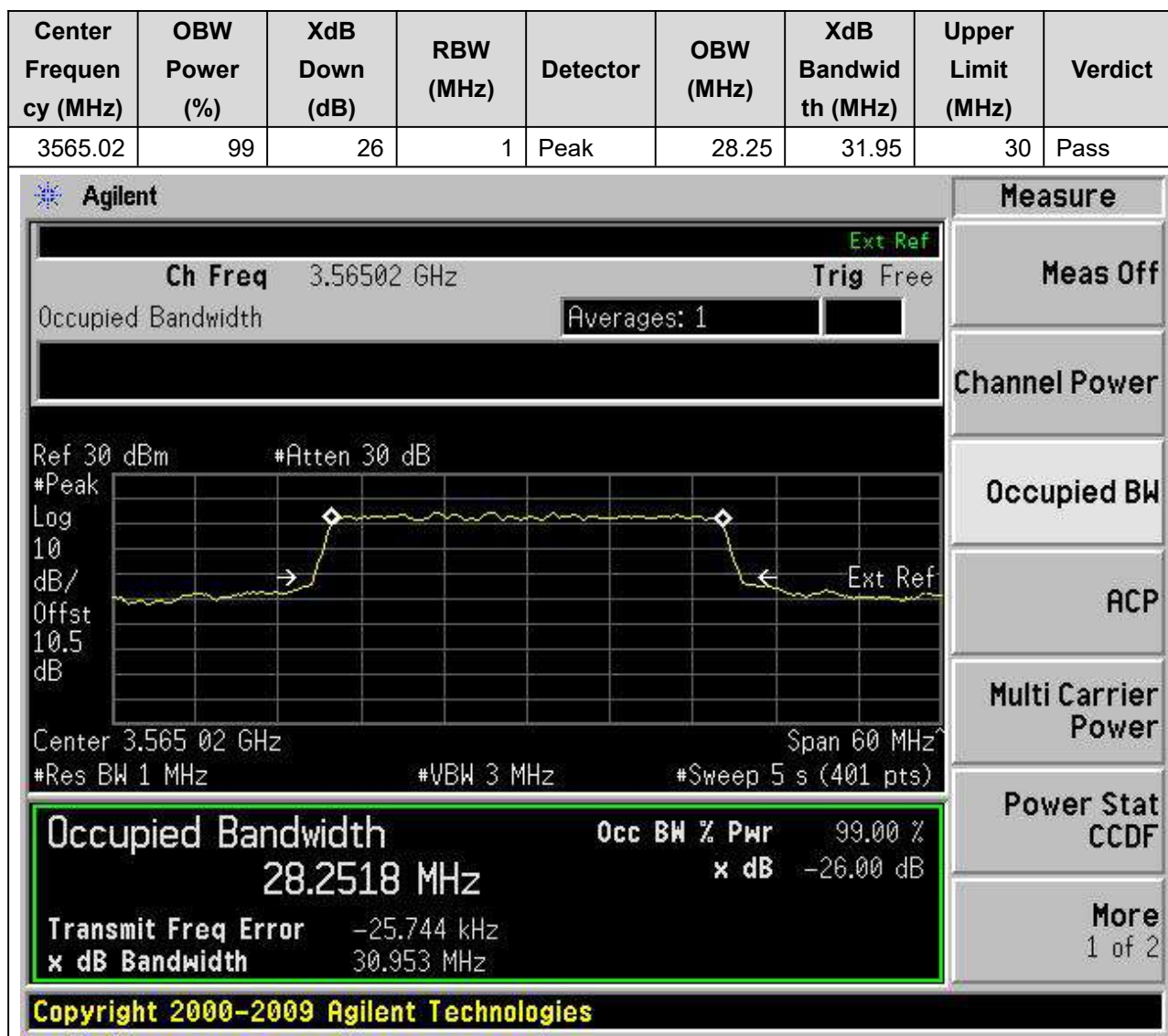
2.38 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:78, RB Position:0)



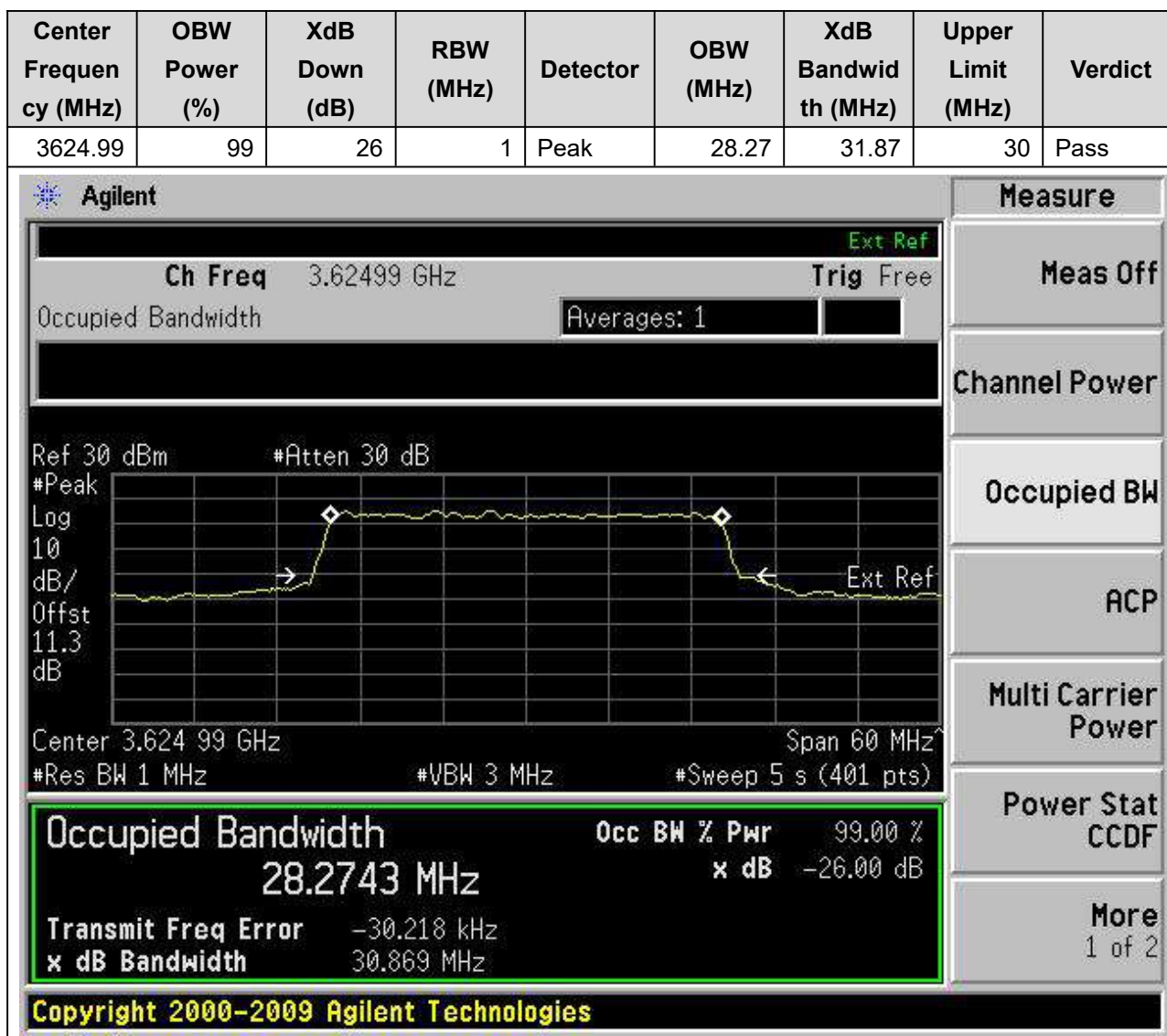
2.39 Occupied Bandwidth for SA_Part96(NTNV)(Channel:645666, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:78, RB Position:0)



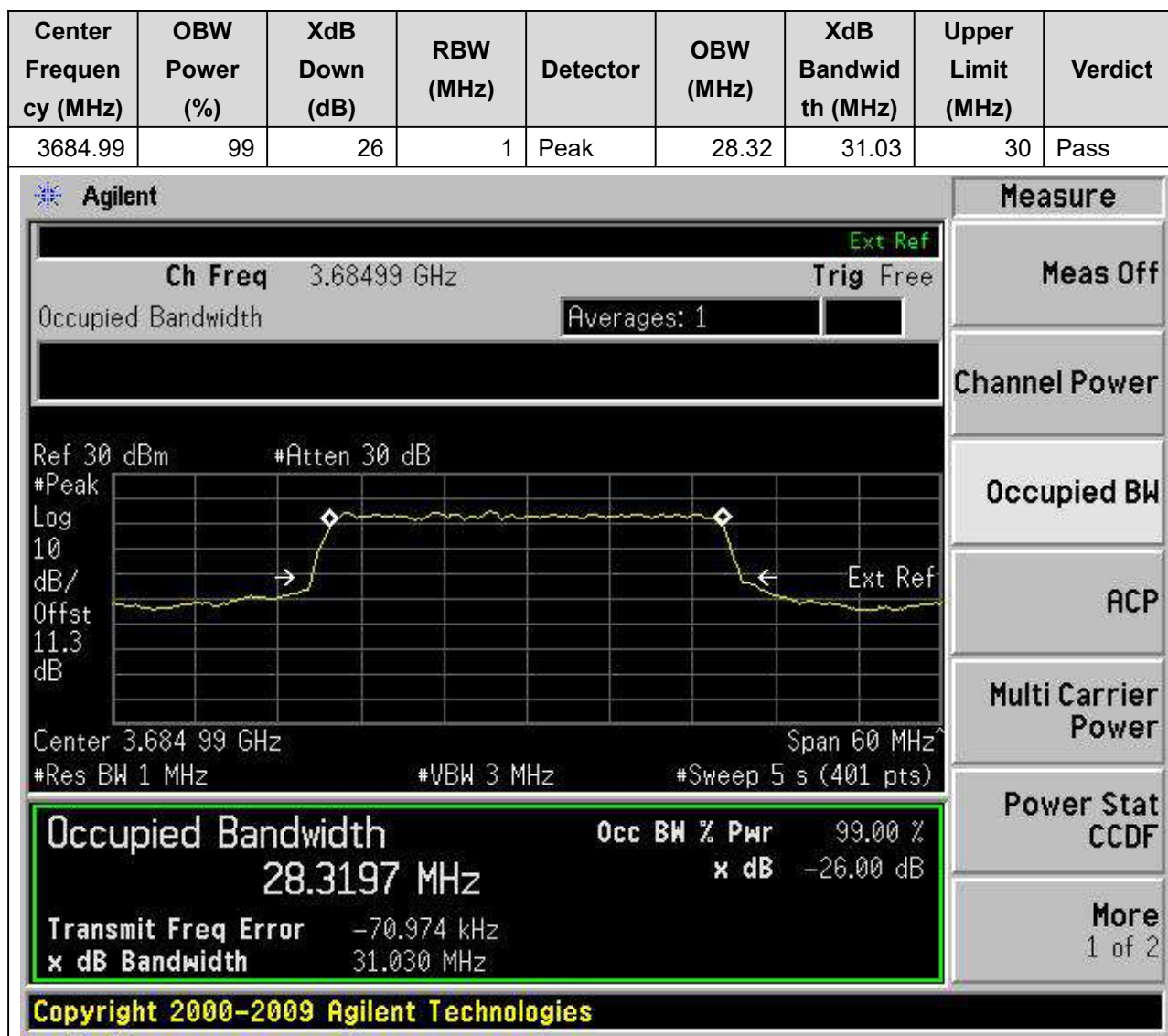
2.40 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637668, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:78, RB Position:0)



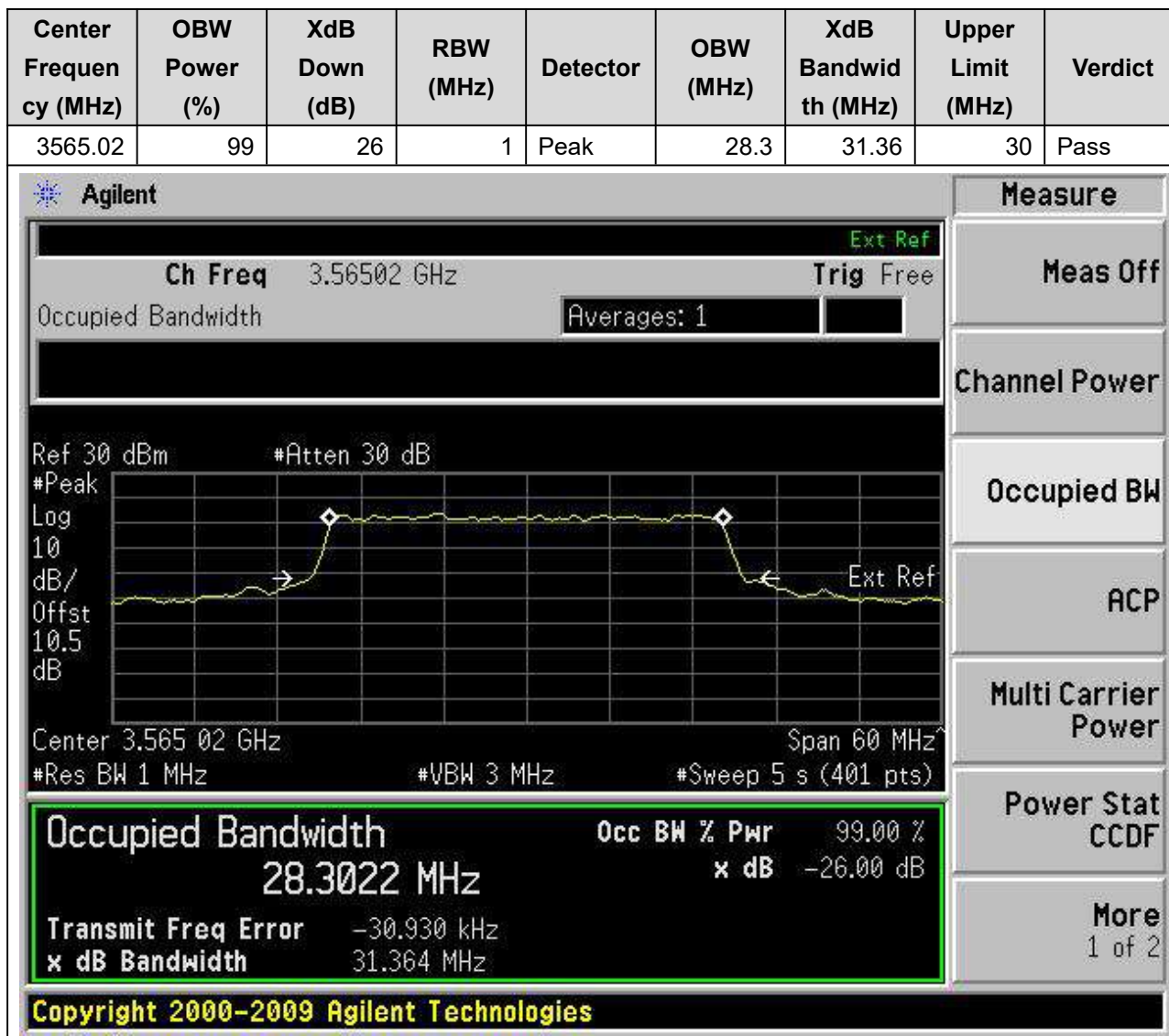
2.41 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:78, RB Position:0)



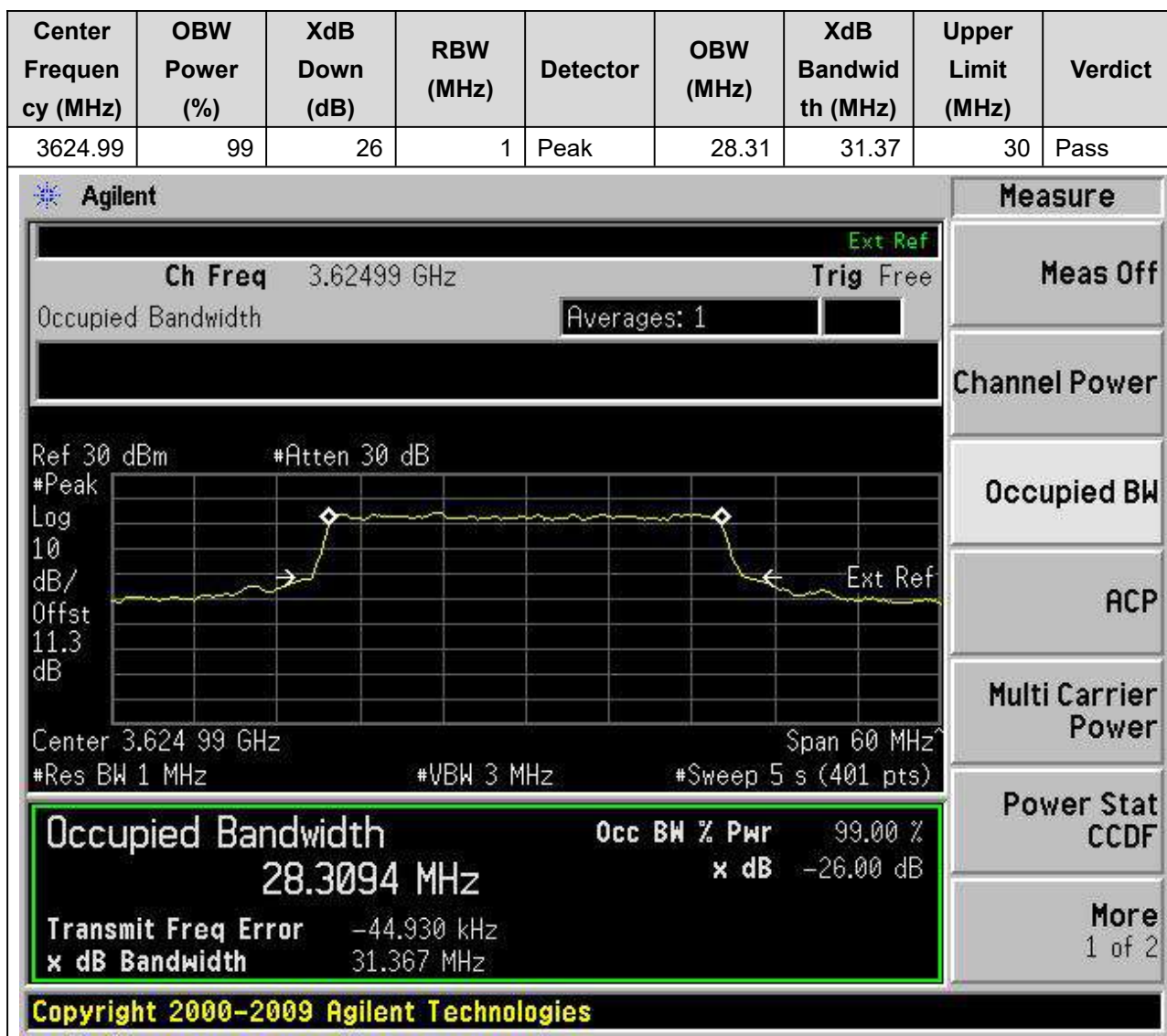
2.42 Occupied Bandwidth for SA_Part96(NTNV)(Channel:645666, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:78, RB Position:0)



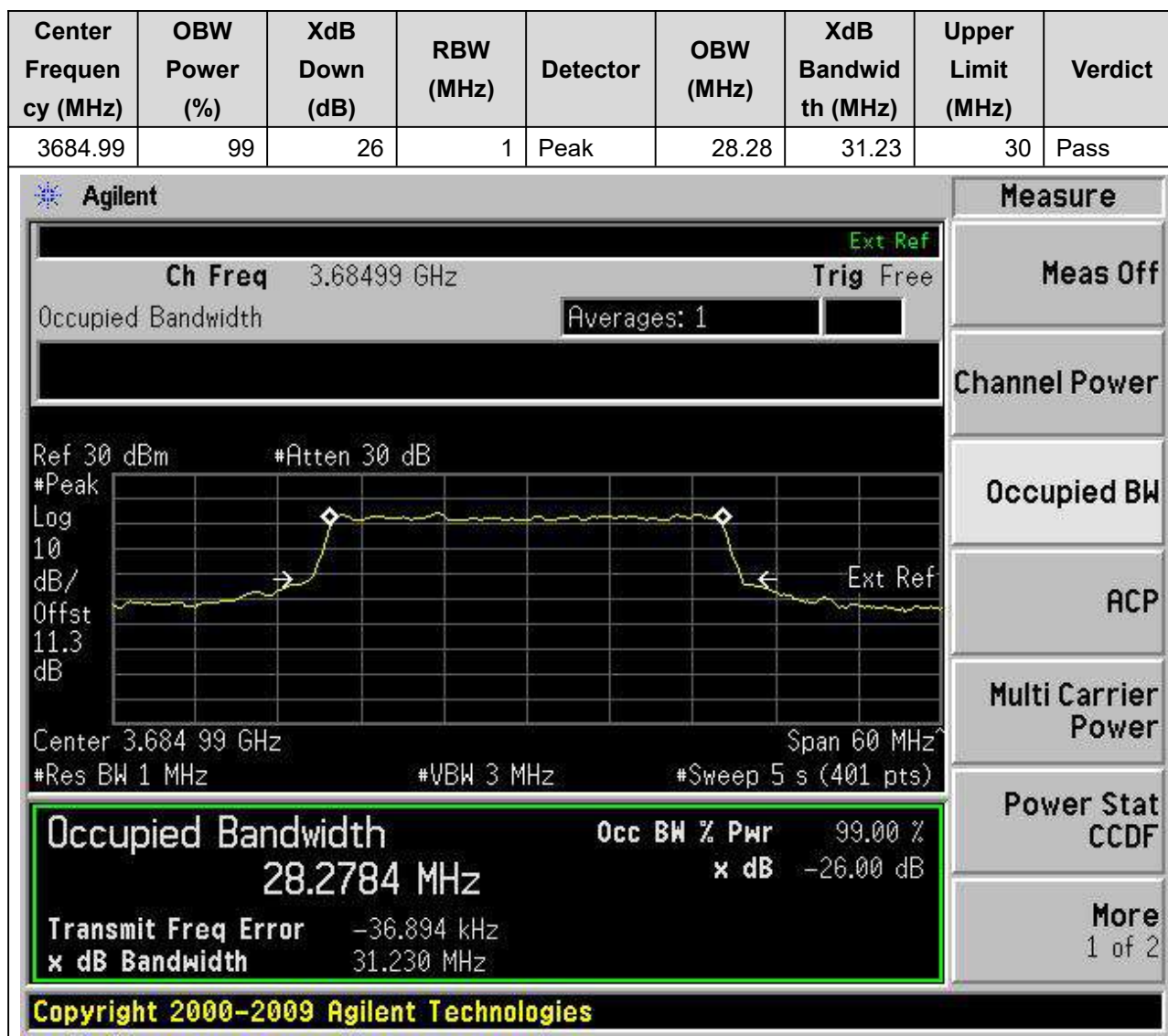
2.43 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637668, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:78, RB Position:0)



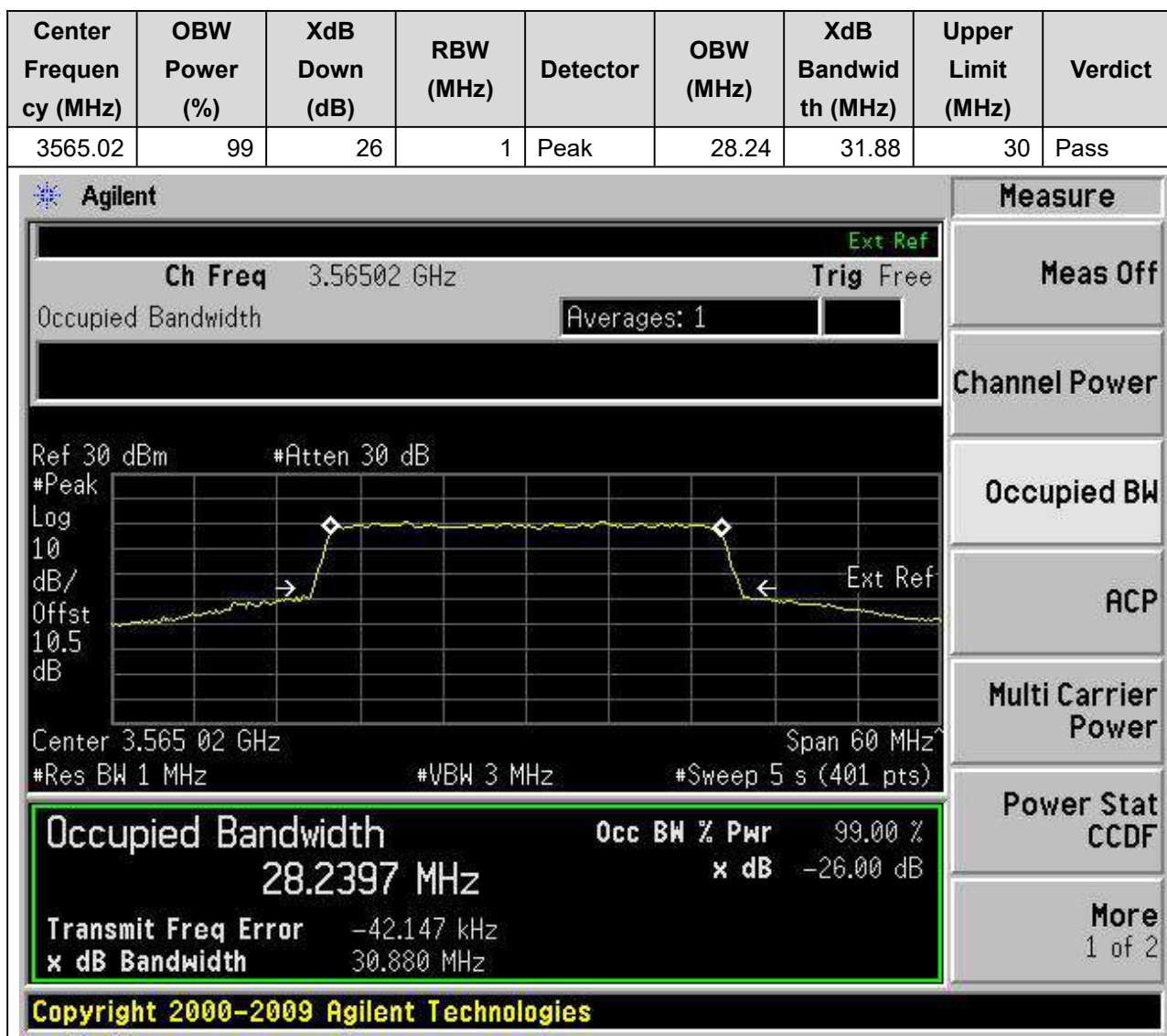
2.44 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:78, RB Position:0)



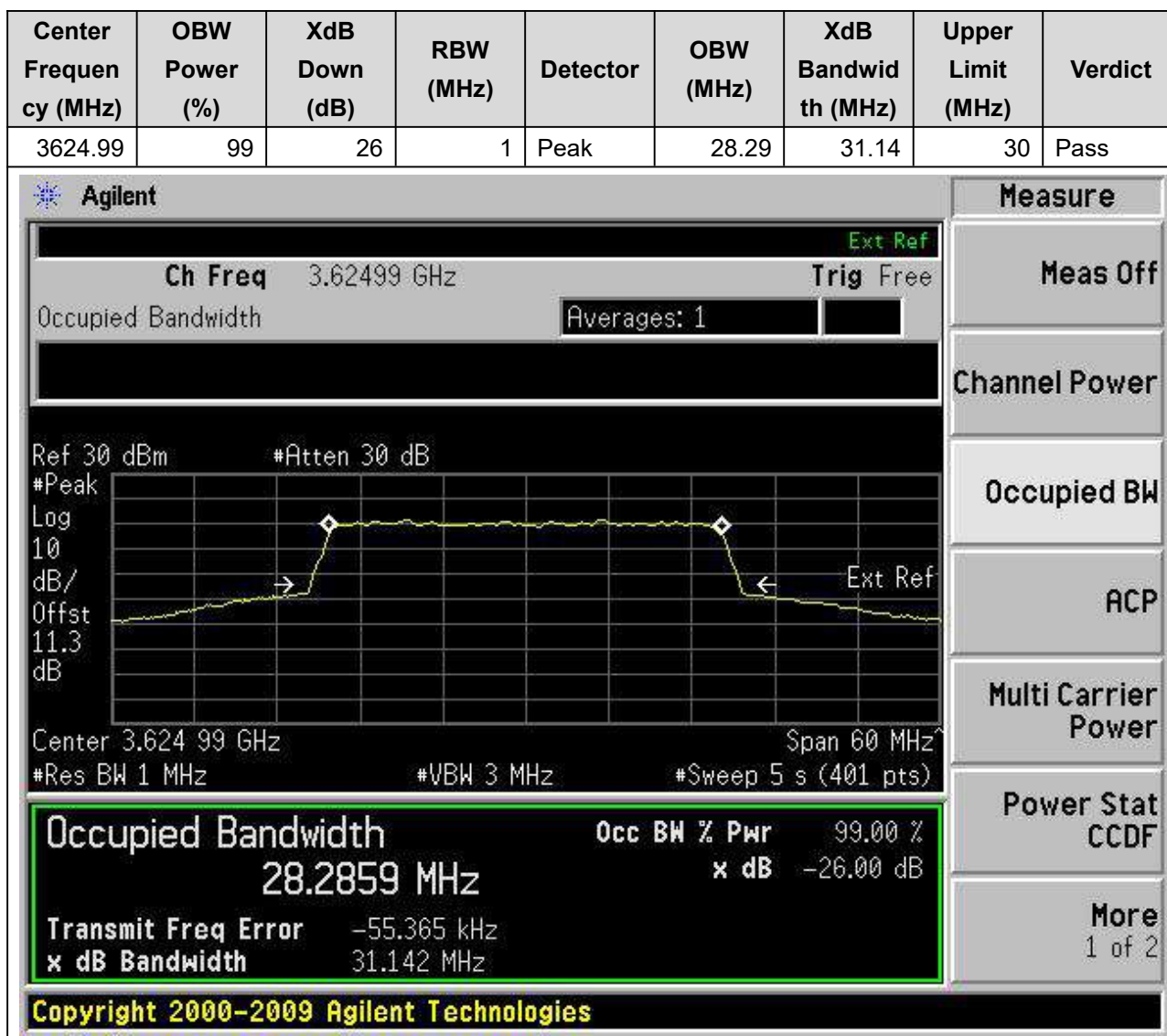
2.45 Occupied Bandwidth for SA_Part96(NTNV)(Channel:645666, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:78, RB Position:0)



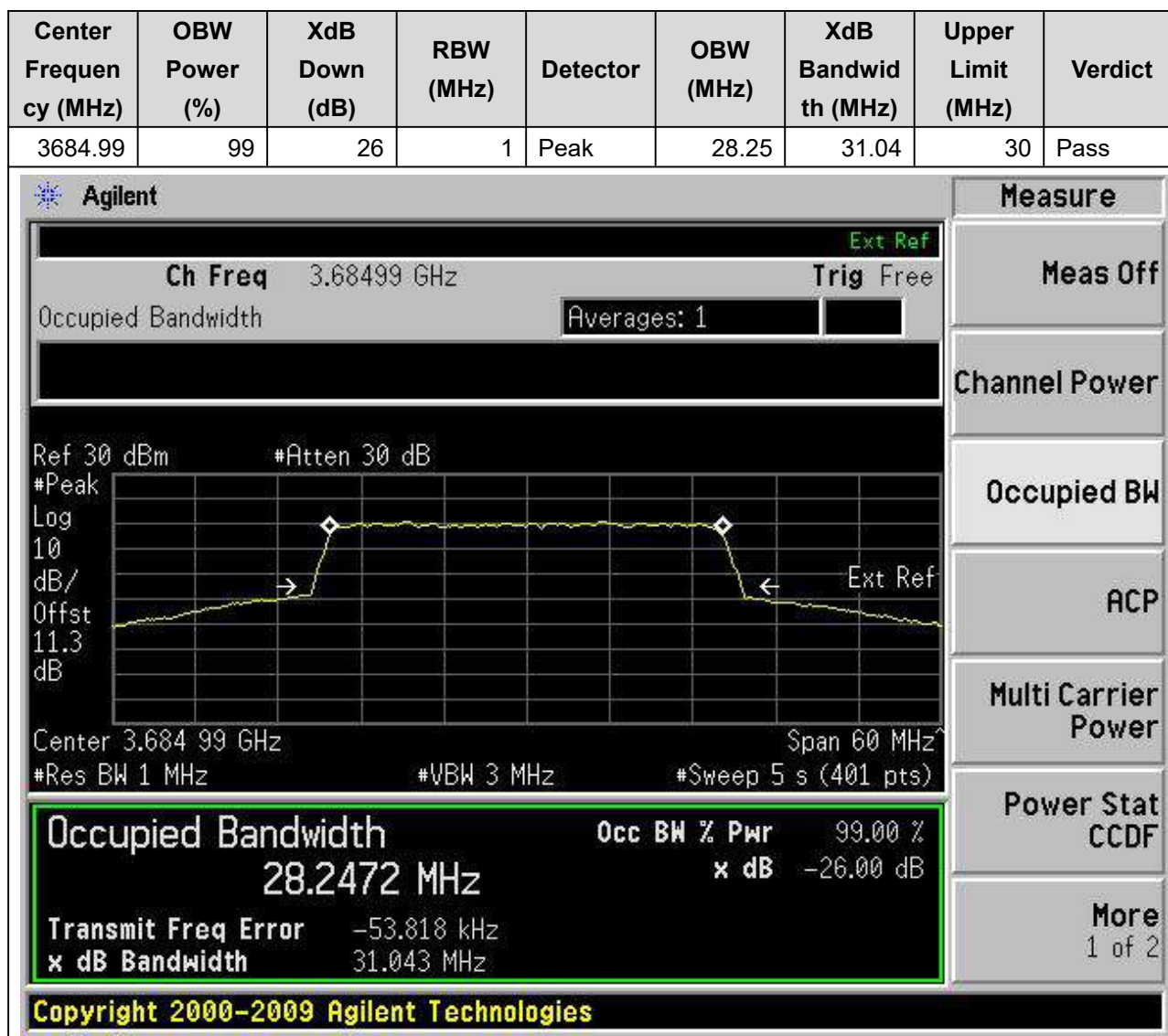
2.46 Occupied Bandwidth for SA_Part96(NTNV)(Channel:637668, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:78, RB Position:0)



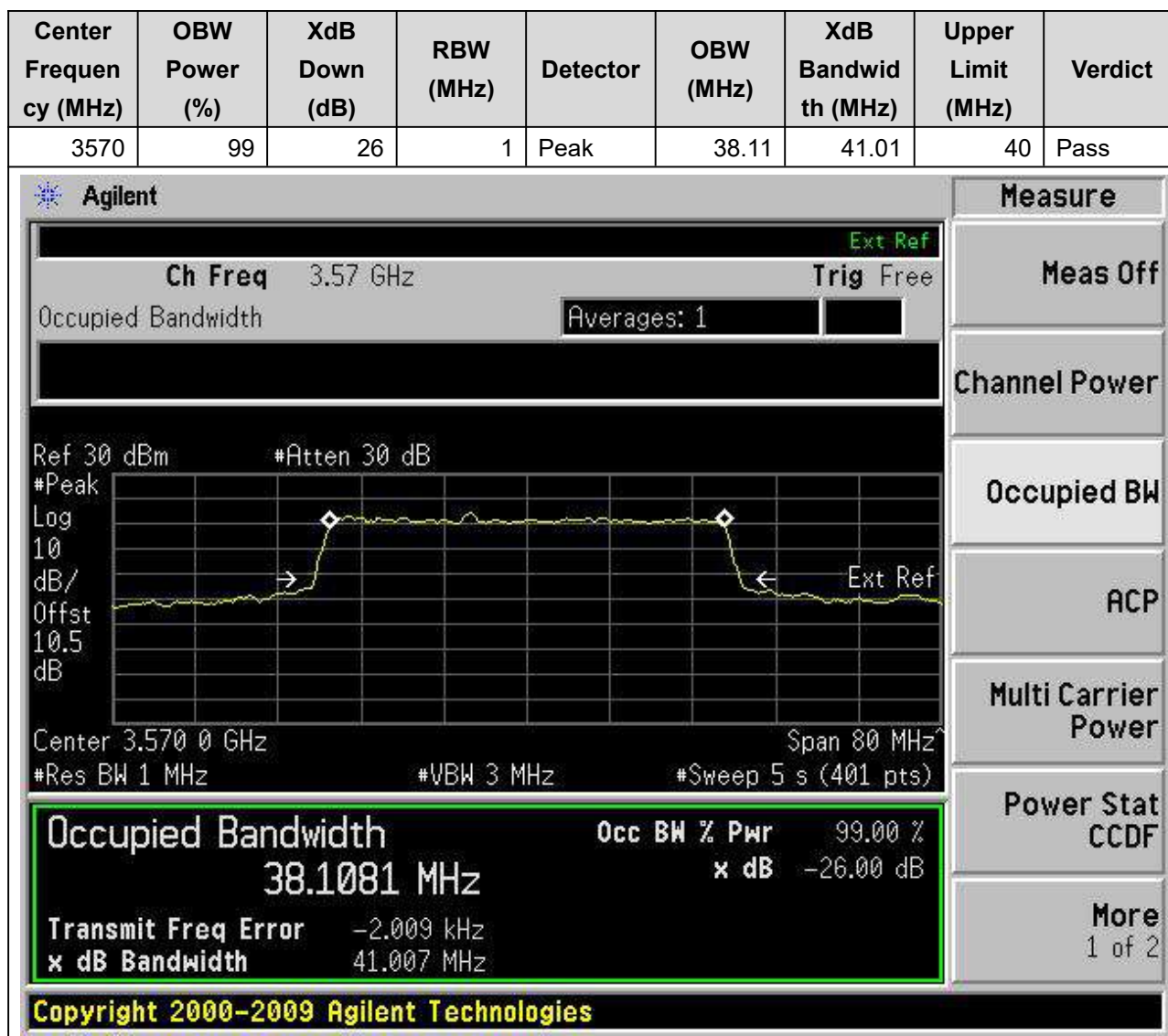
2.47 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:78, RB Position:0)



2.48 Occupied Bandwidth for SA_Part96(NTNV)(Channel:645666, Bandwidth:30, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:78, RB Position:0)

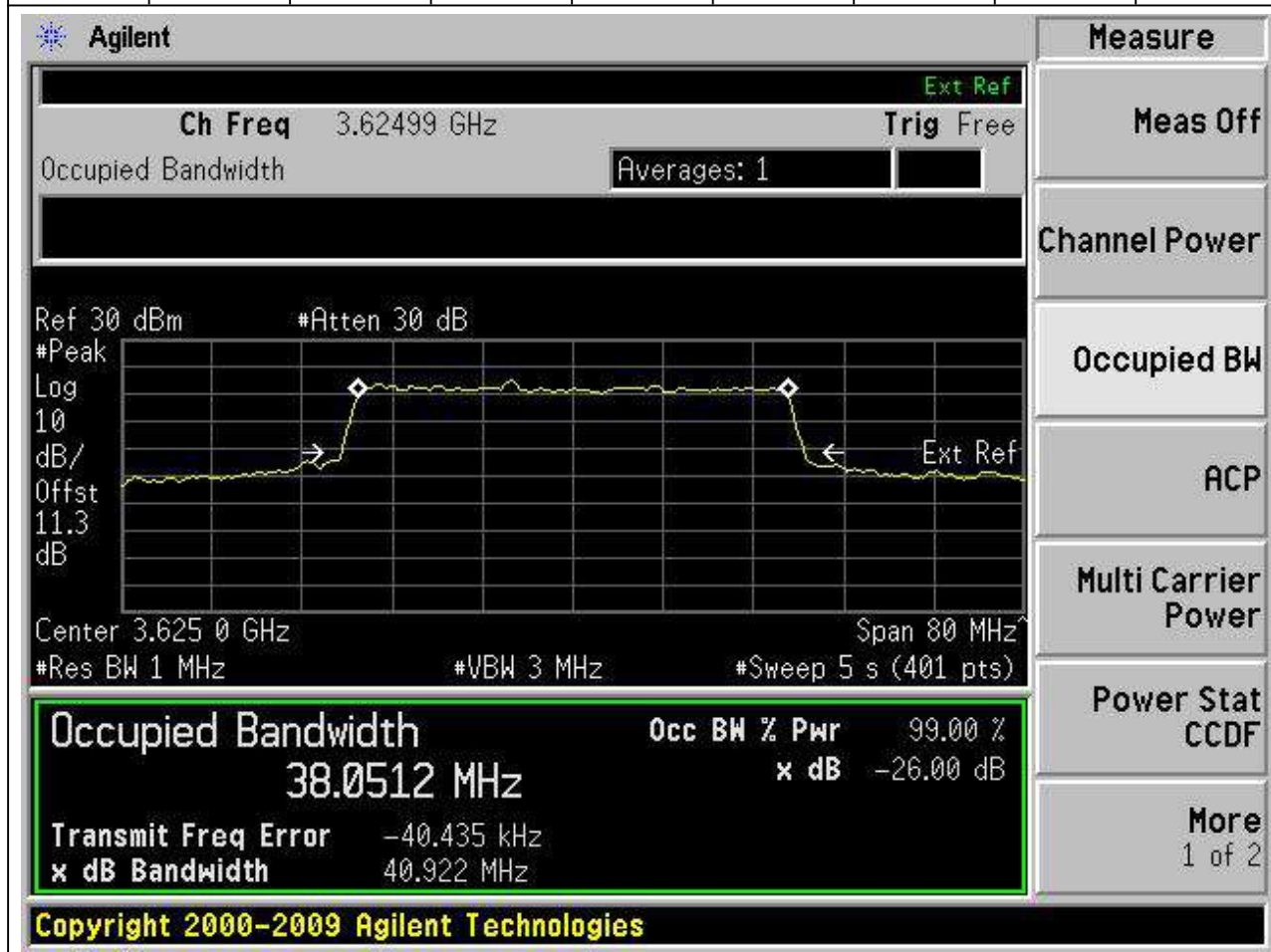


2.49 Occupied Bandwidth for SA_Part96(NTNV)(Channel:638000, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)

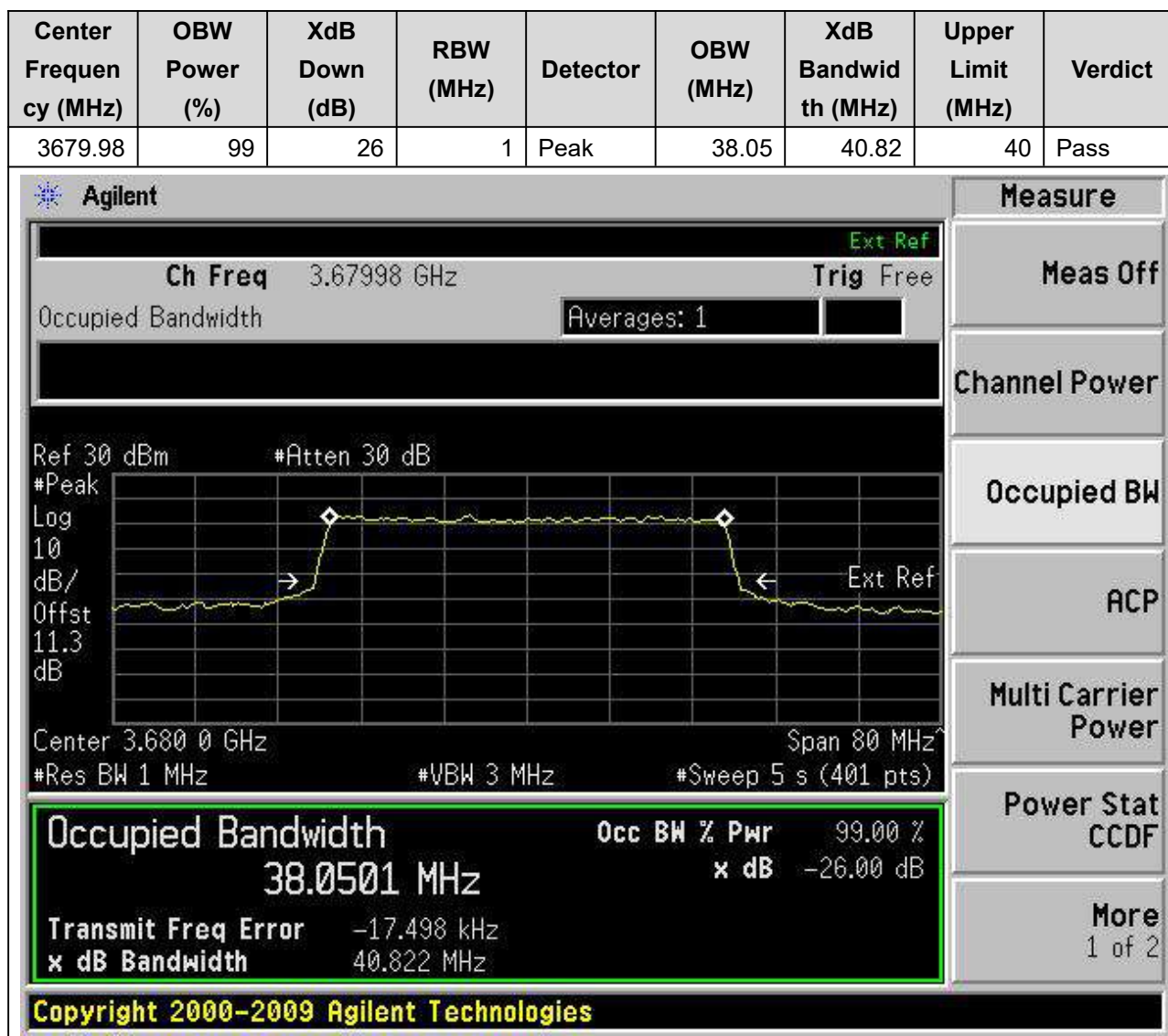


2.50 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)

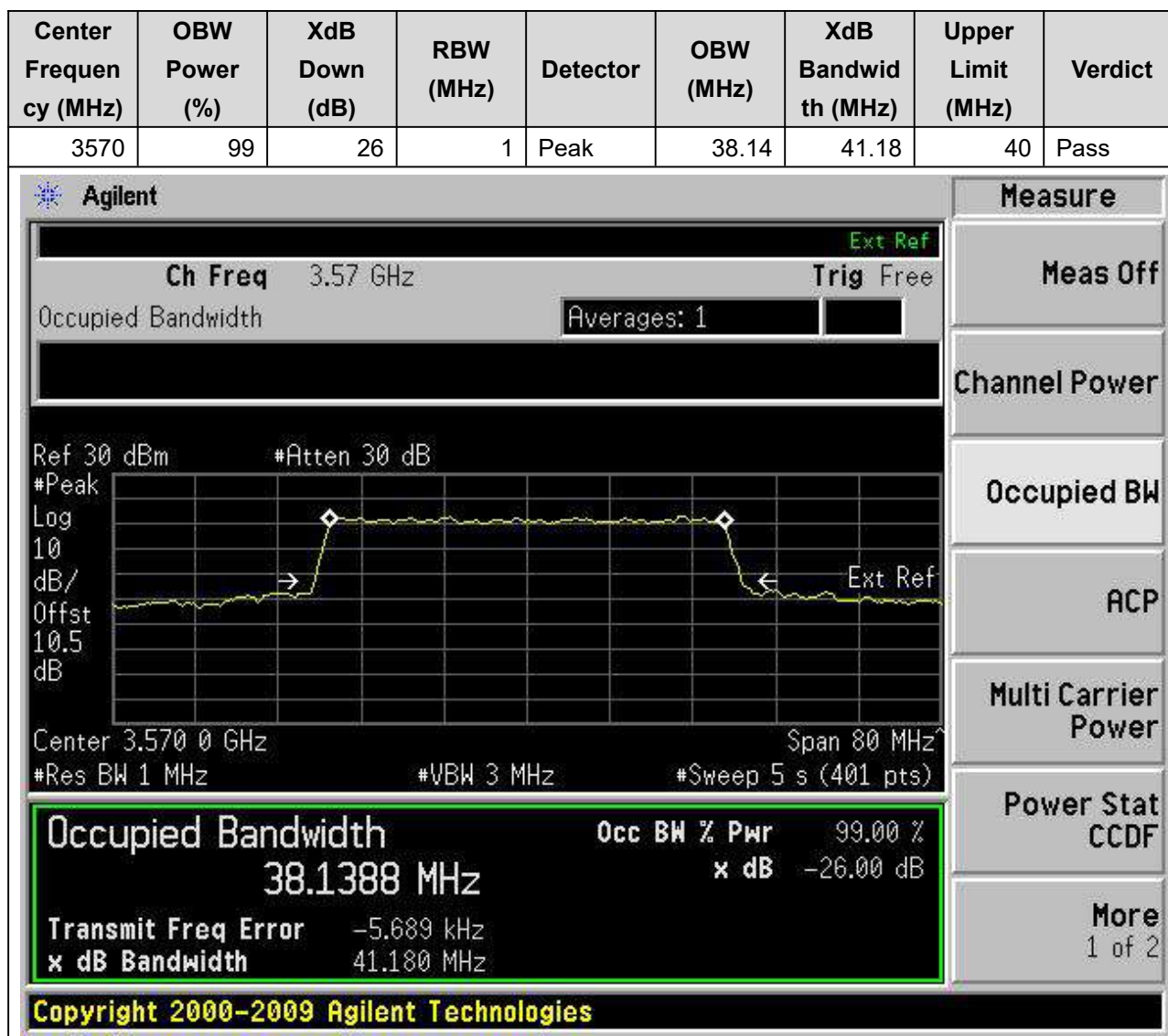
Center Frequency (MHz)	OBW Power (%)	XdB Down (dB)	RBW (MHz)	Detector	OBW (MHz)	XdB Bandwidth (MHz)	Upper Limit (MHz)	Verdict
3624.99	99	26	1	Peak	38.05	40.92	40	Pass



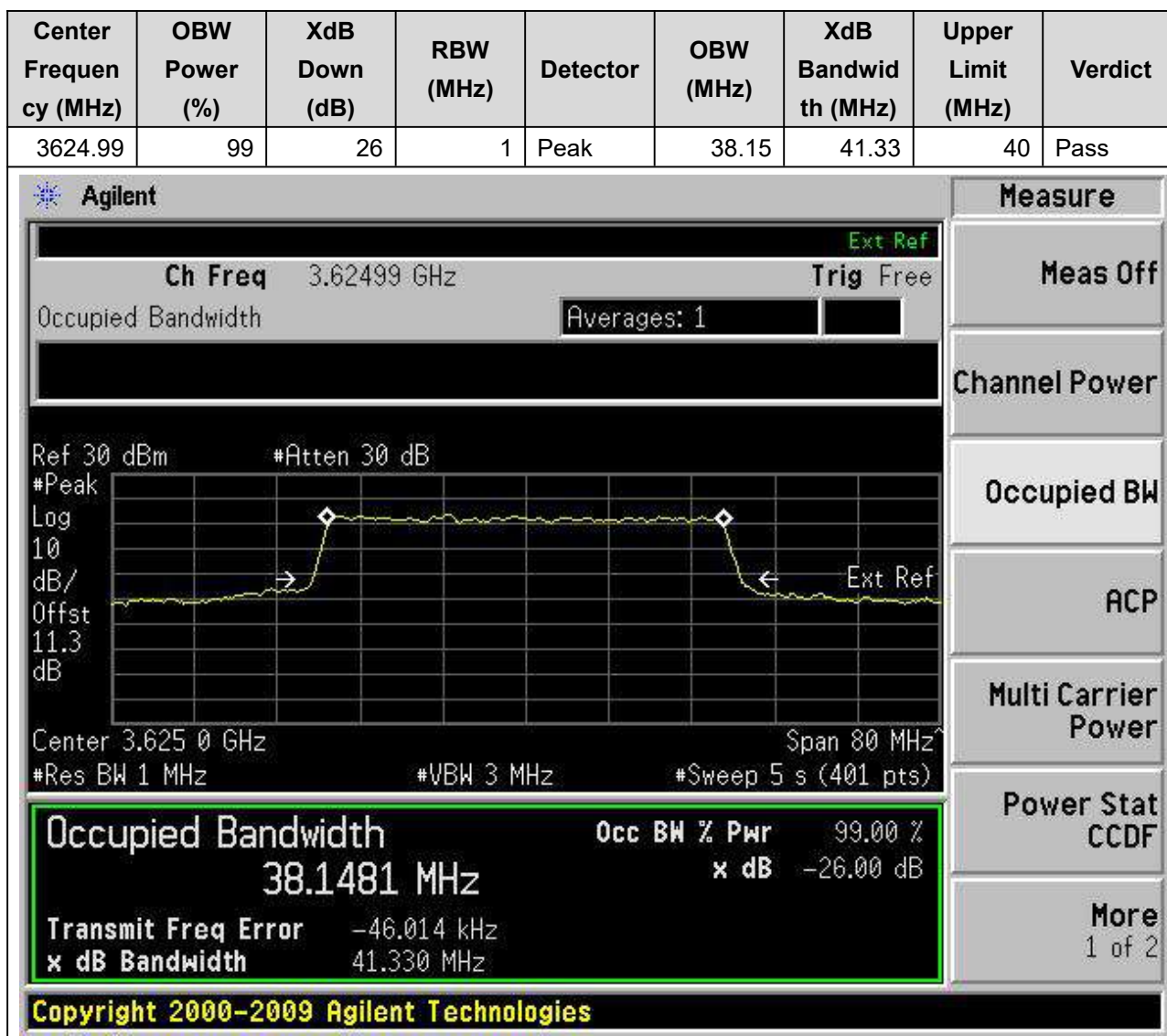
2.51 Occupied Bandwidth for SA_Part96(NTNV)(Channel:645332, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:QPSK, RB Number:106, RB Position:0)



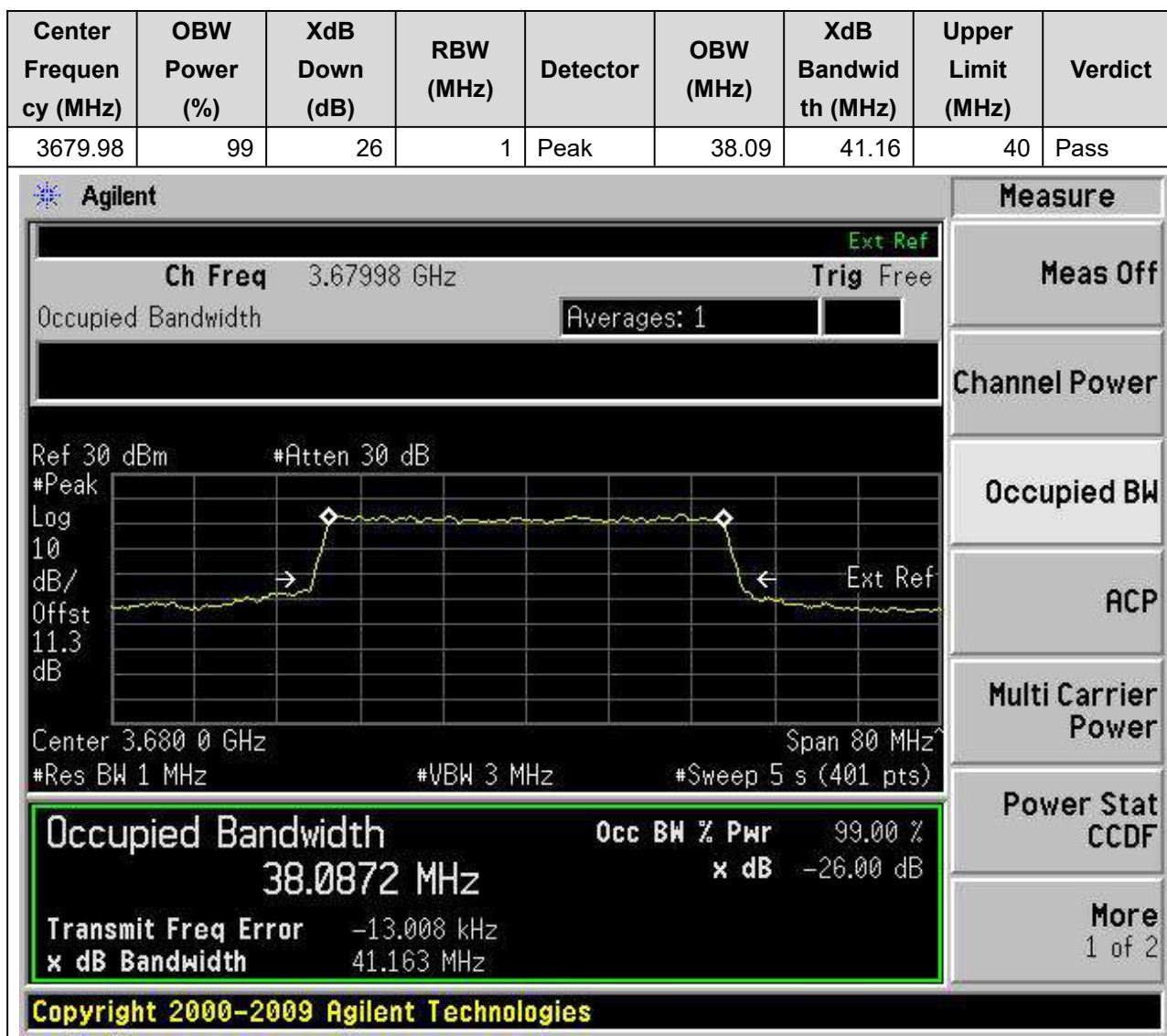
2.52 Occupied Bandwidth for SA_Part96(NTNV)(Channel:638000, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:106, RB Position:0)



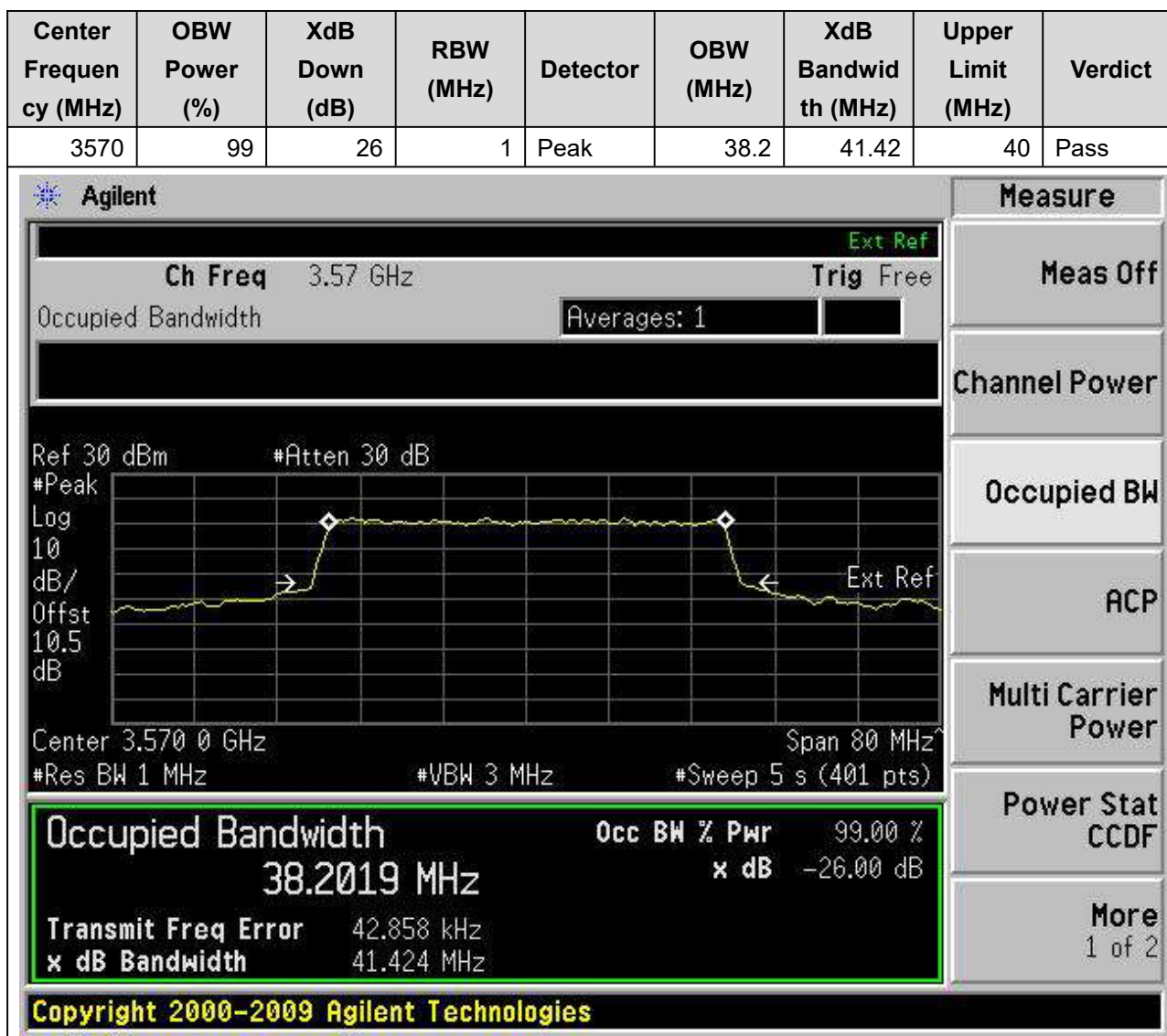
2.53 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:106, RB Position:0)



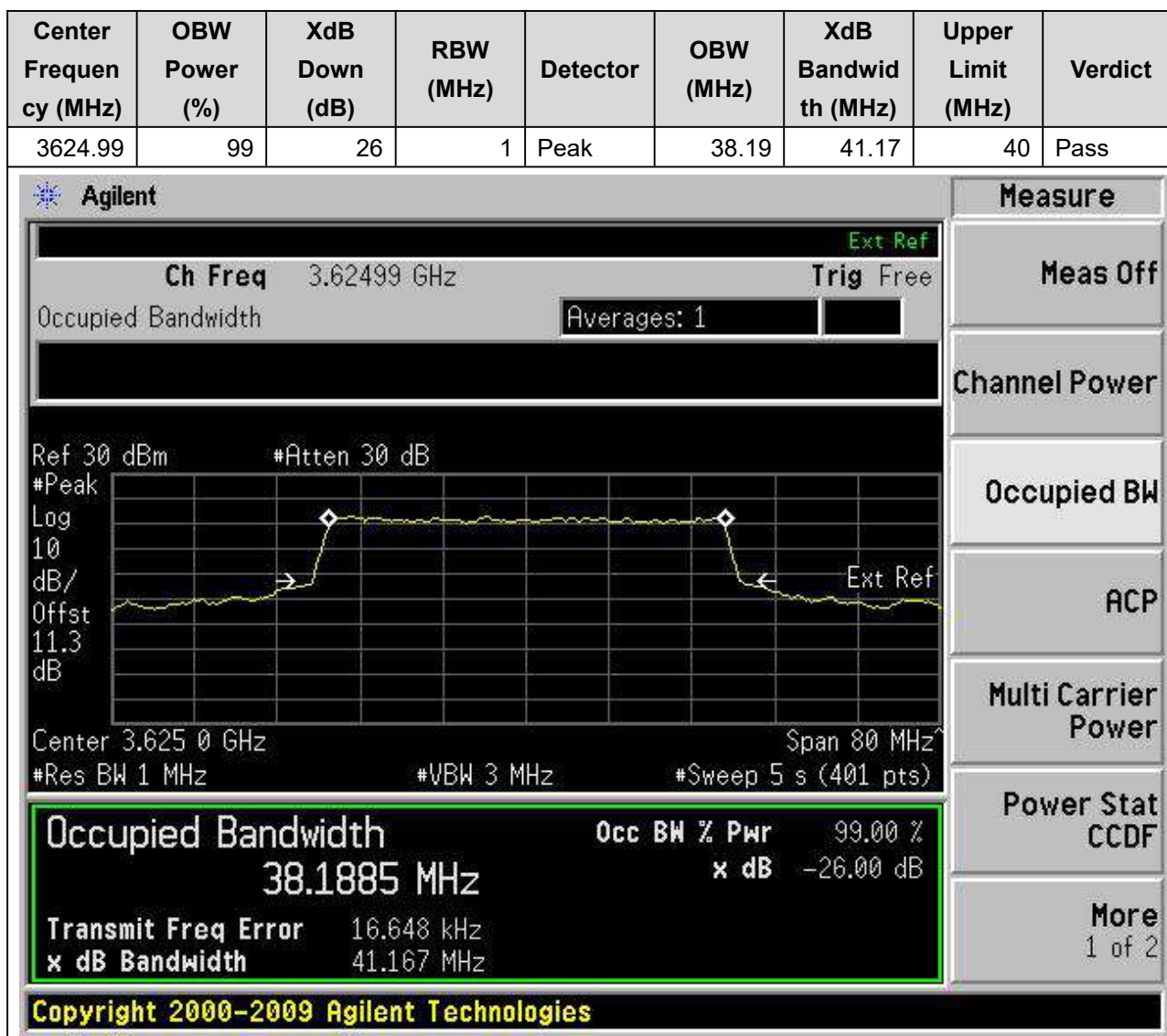
2.54 Occupied Bandwidth for SA_Part96(NTNV)(Channel:645332, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:16QAM, RB Number:106, RB Position:0)



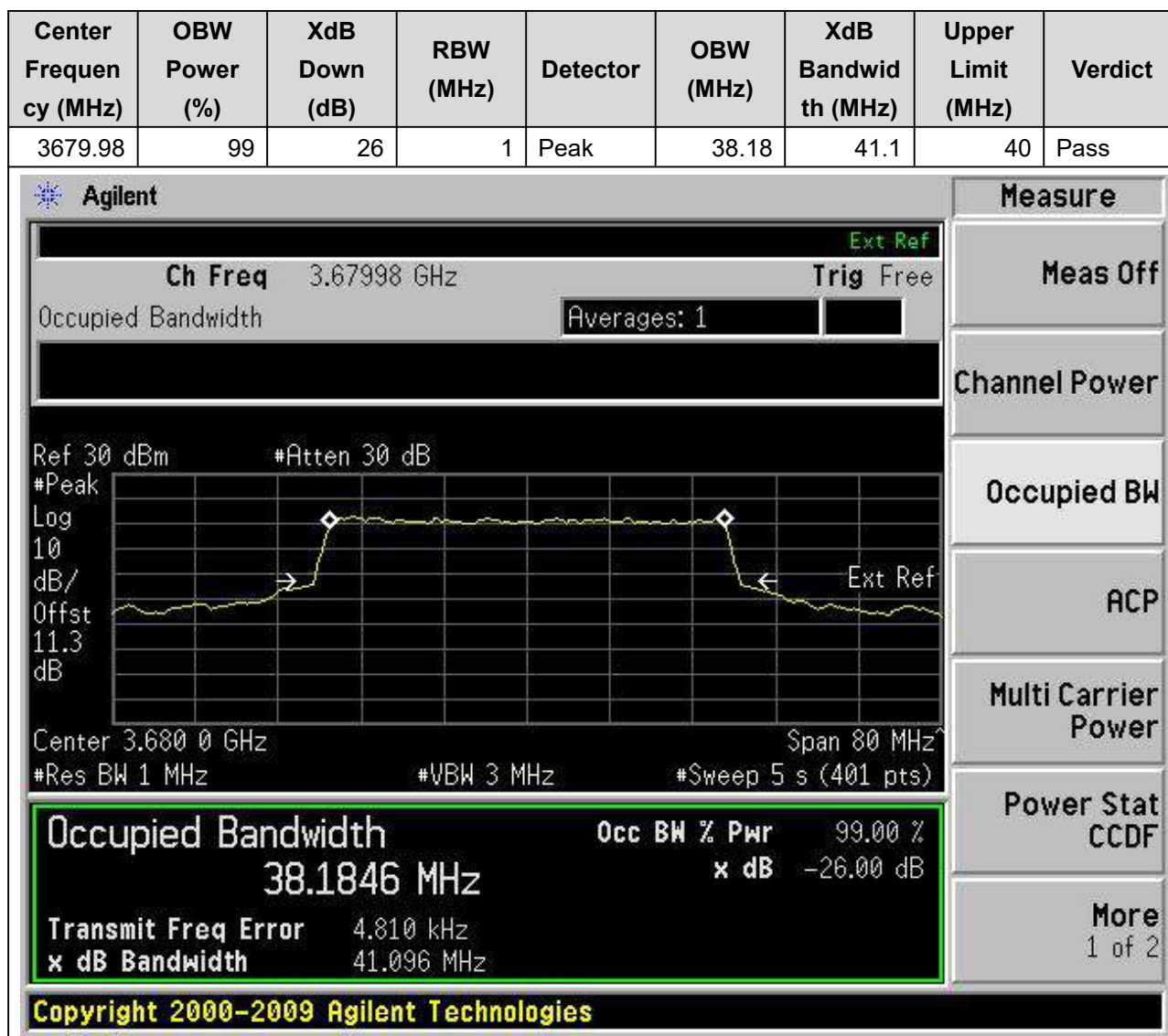
2.55 Occupied Bandwidth for SA_Part96(NTNV)(Channel:638000, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:106, RB Position:0)



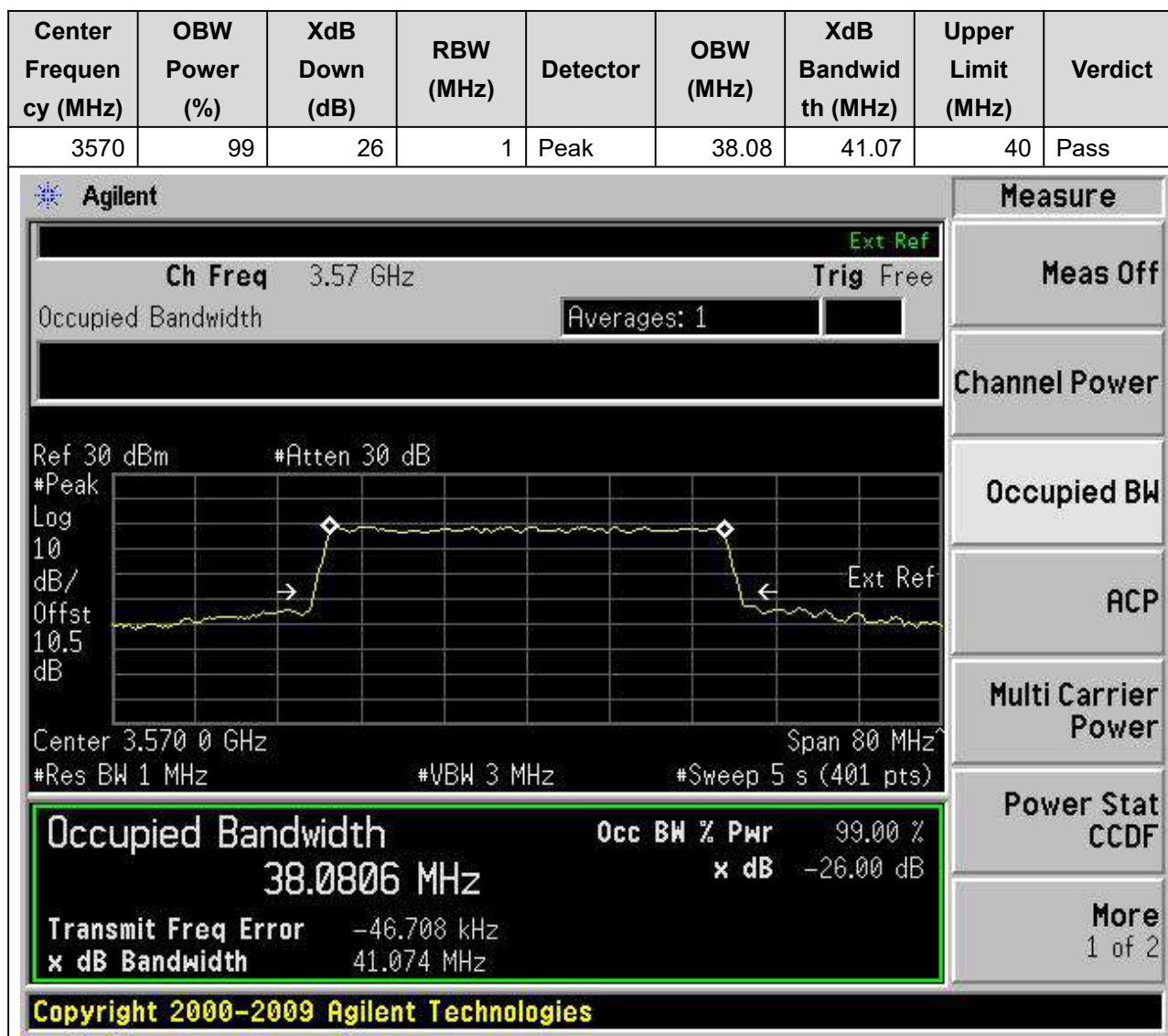
2.56 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:106, RB Position:0)



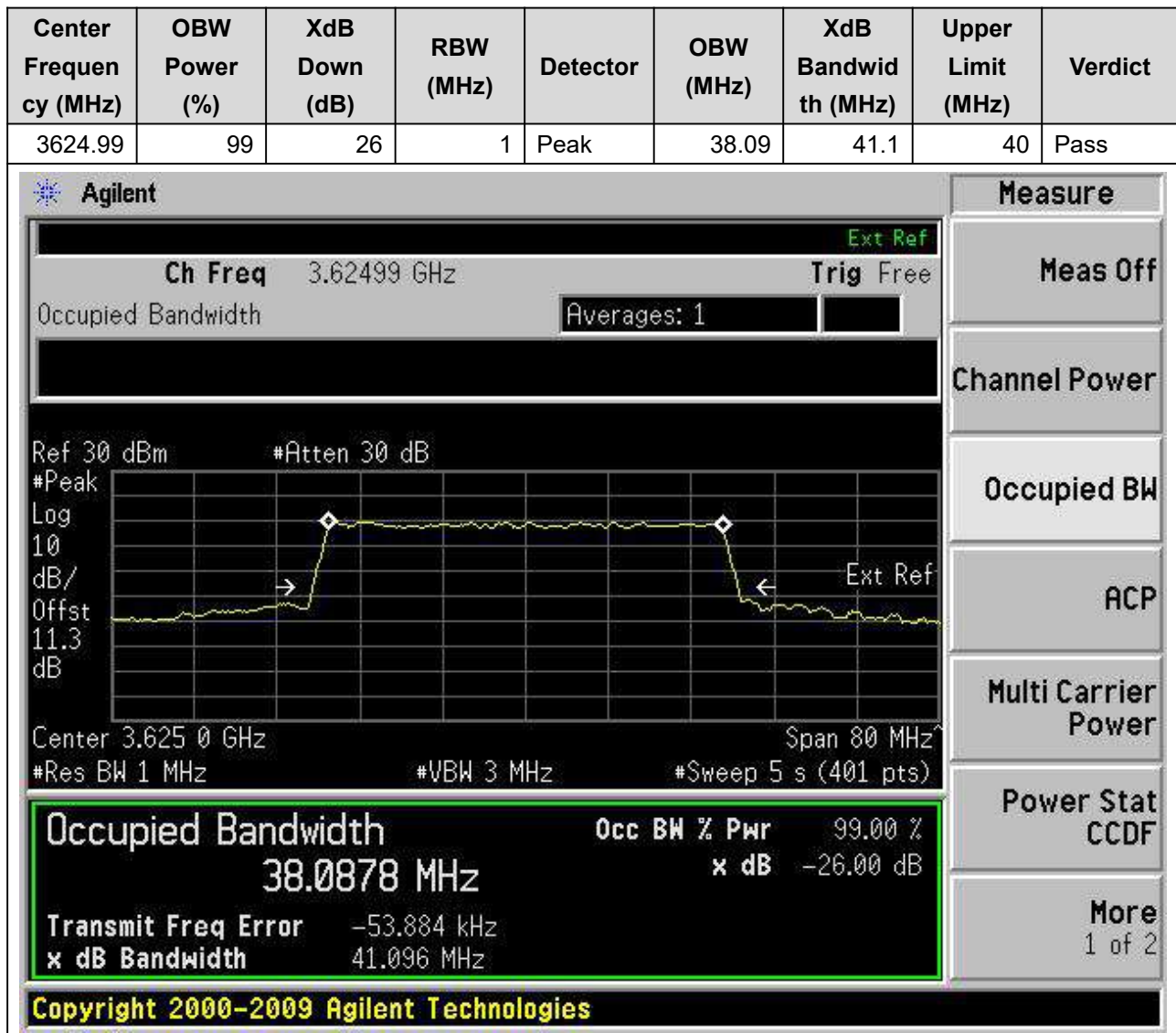
2.57 Occupied Bandwidth for SA_Part96(NTNV)(Channel:645332, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:64QAM, RB Number:106, RB Position:0)



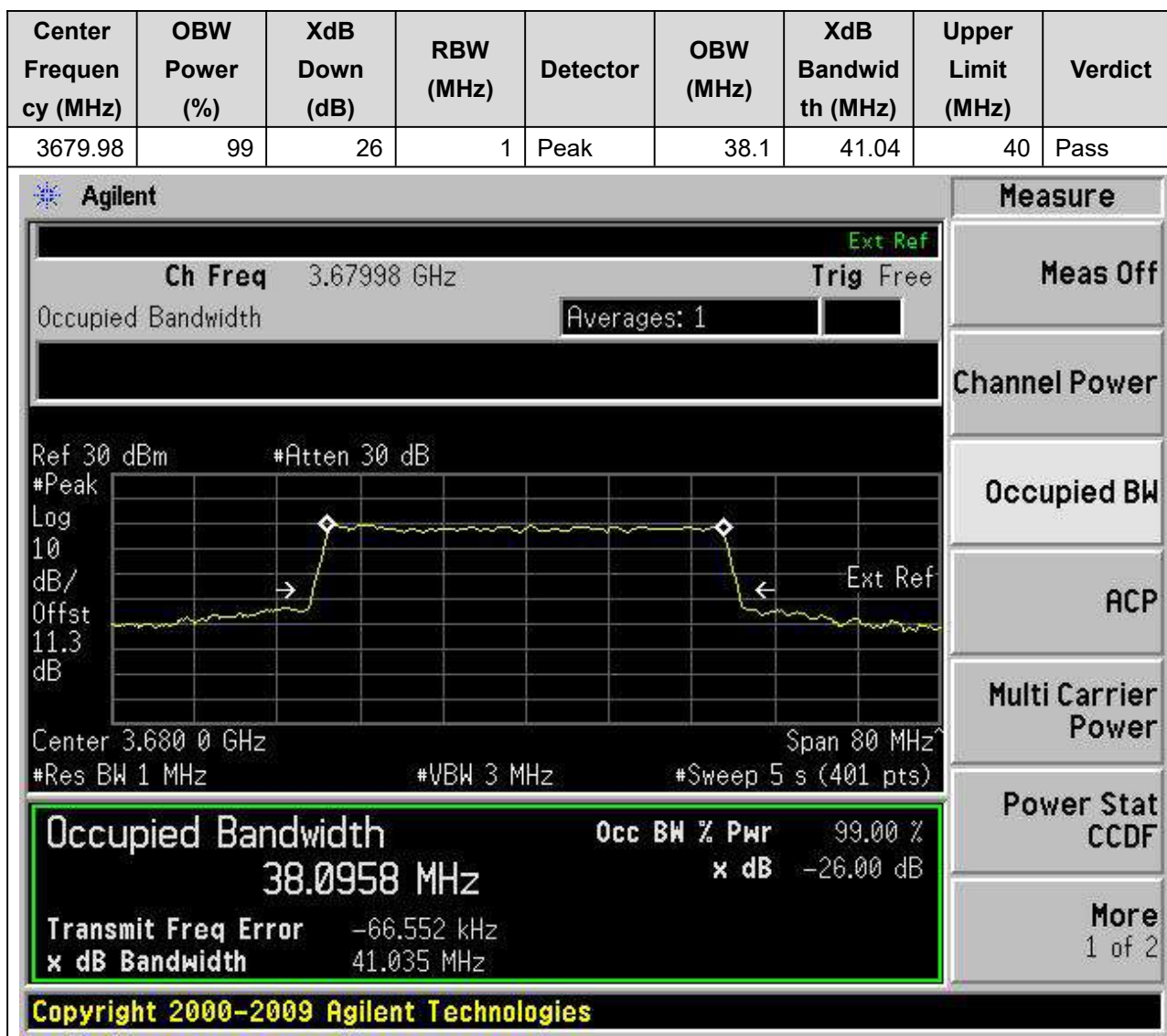
2.58 Occupied Bandwidth for SA_Part96(NTNV)(Channel:638000, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:106, RB Position:0)



2.59 Occupied Bandwidth for SA_Part96(NTNV)(Channel:641666, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:106, RB Position:0)



2.60 Occupied Bandwidth for SA_Part96(NTNV)(Channel:645332, Bandwidth:40, SCS:30, OFDM:CP-OFDM, Modulation:256QAM, RB Number:106, RB Position:0)



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