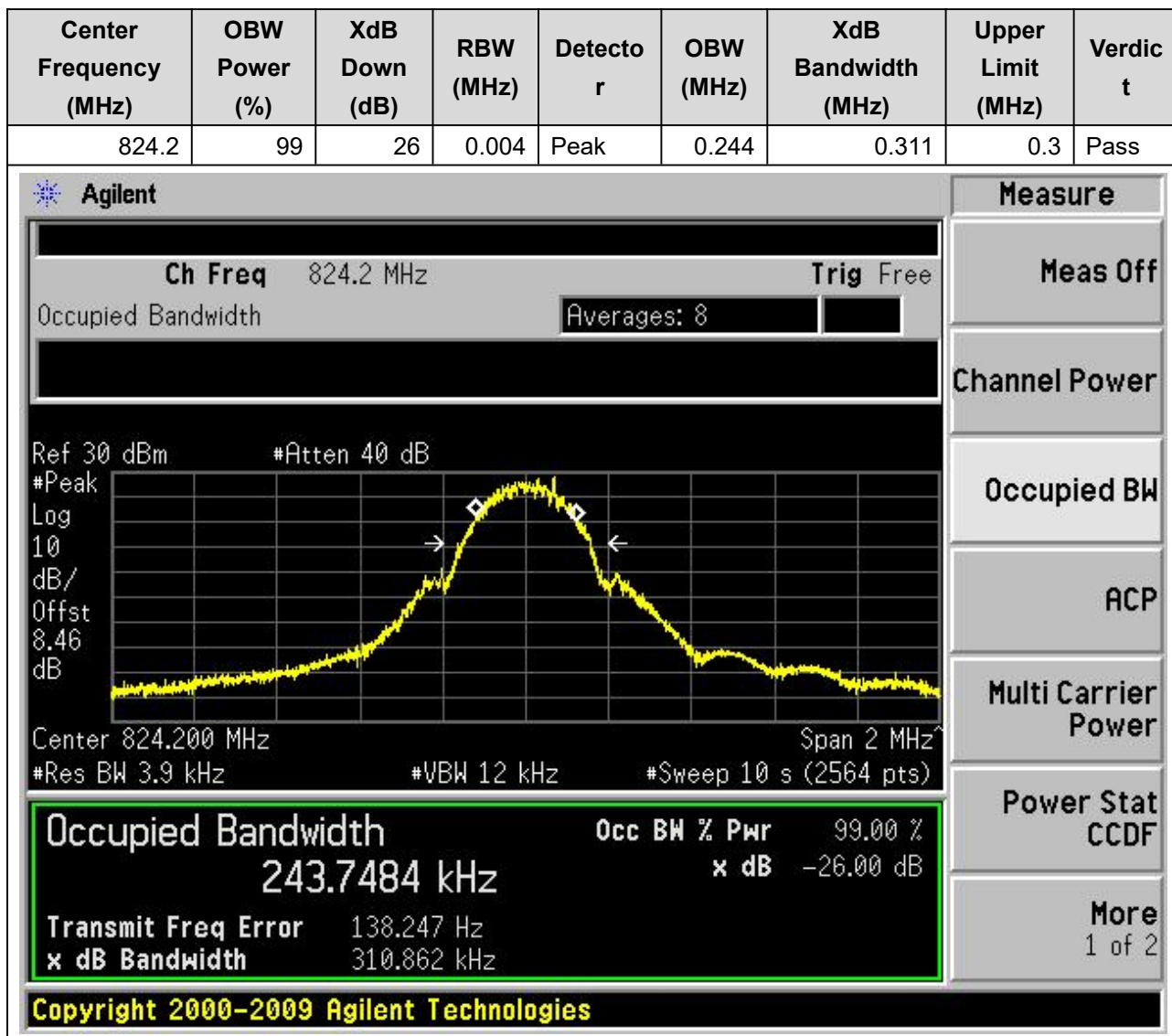


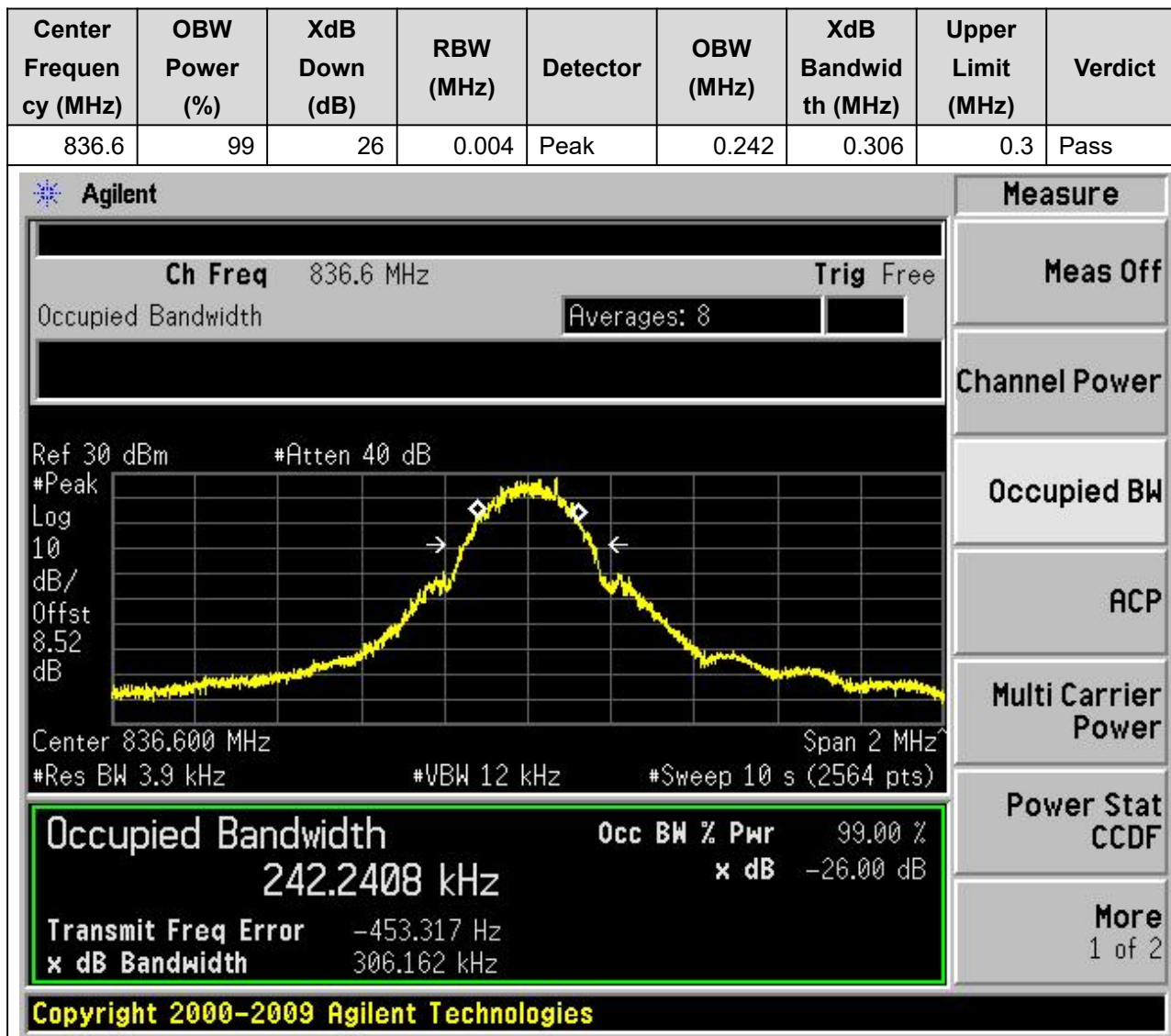
## **Annex A.3 Occupied Bandwidth**

## 1. GSM\_GSM850

### 1.1 GSM Occupied Bandwidth\_Part22-24(NTNV)(Channel:128)

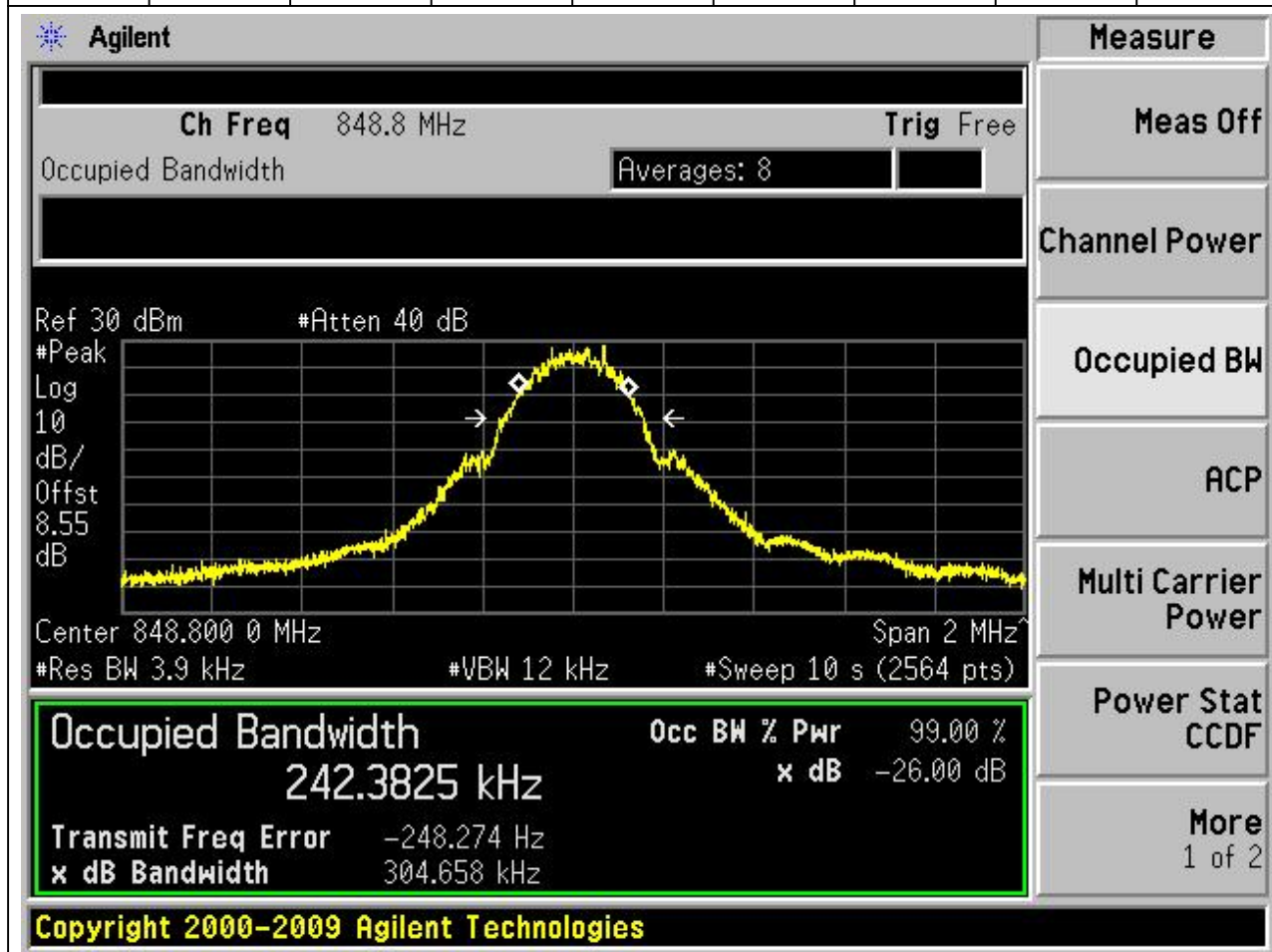


## 1.2 GSM Occupied Bandwidth\_Part22-24(NTNV)(Channel:190)



### 1.3 GSM Occupied Bandwidth\_Part22-24(NTNV)(Channel:251)

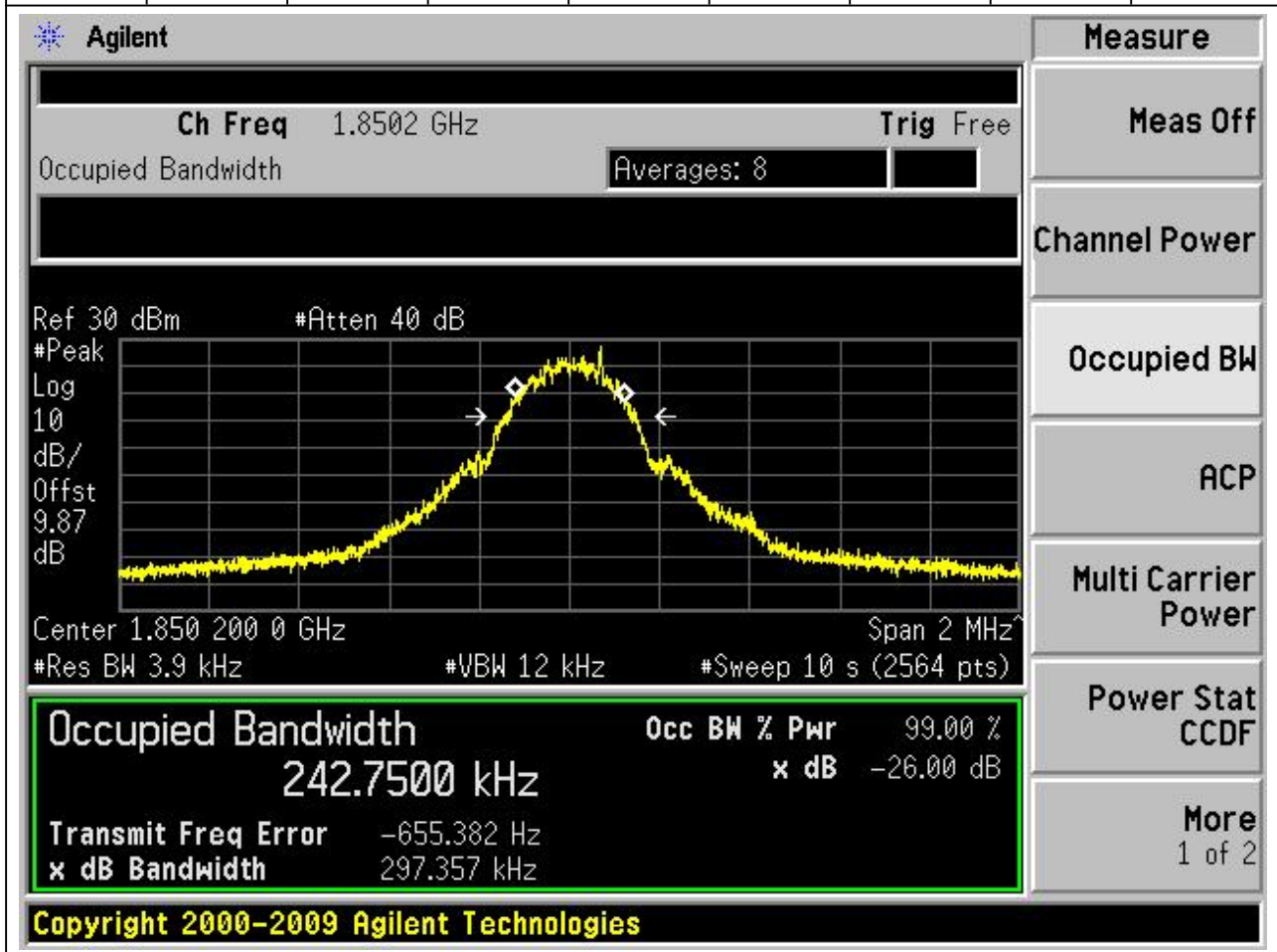
| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 848.8                  | 99            | 26            | 0.004     | Peak     | 0.242     | 0.305               | 0.3               | Pass    |



## 2. GSM\_PCS

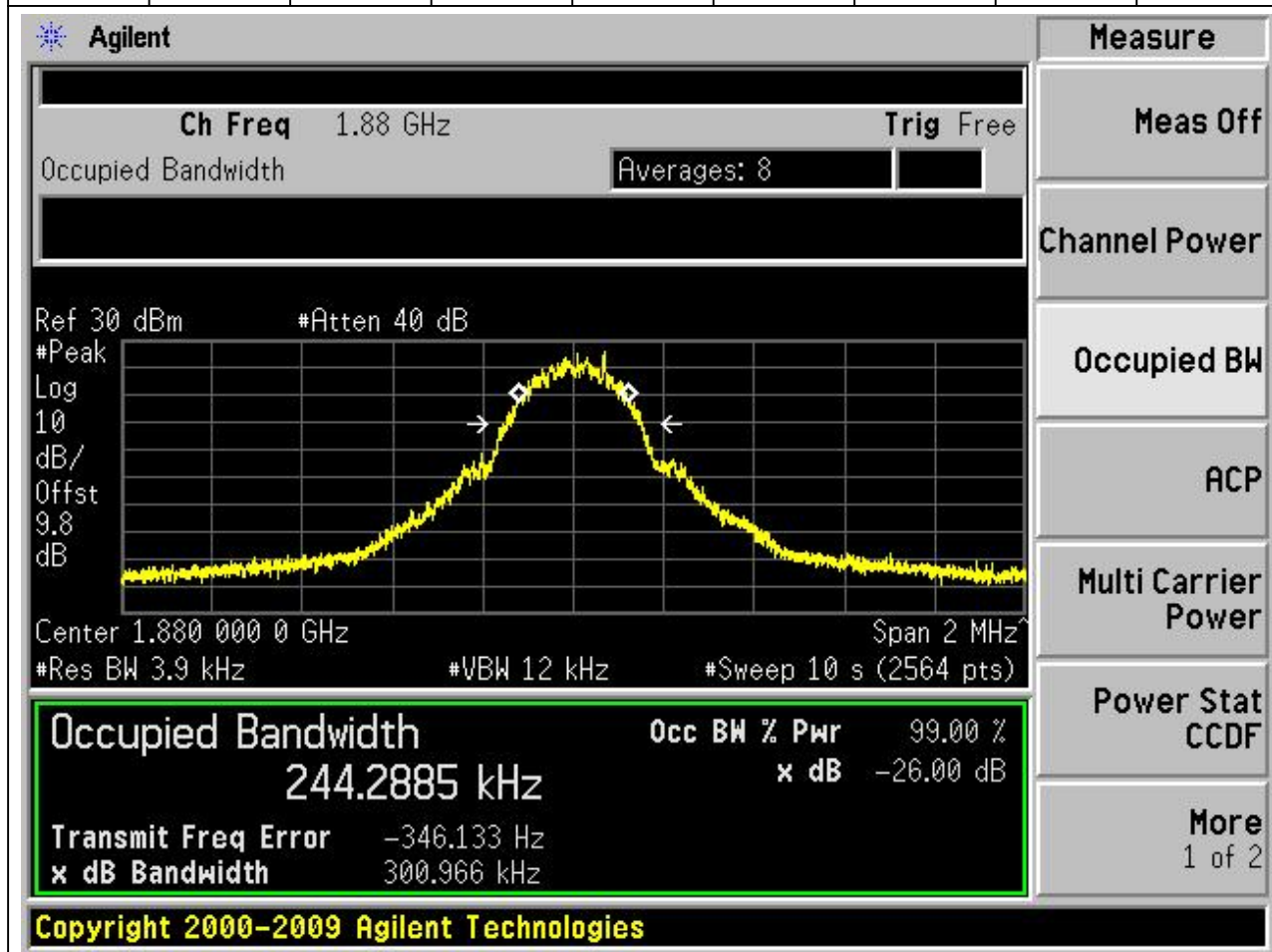
### 2.1 GSM Occupied Bandwidth\_Part22-24(NTNV)(Channel:512)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1850.2                 | 99            | 26            | 0.004     | Peak     | 0.243     | 0.297               | 0.3               | Pass    |



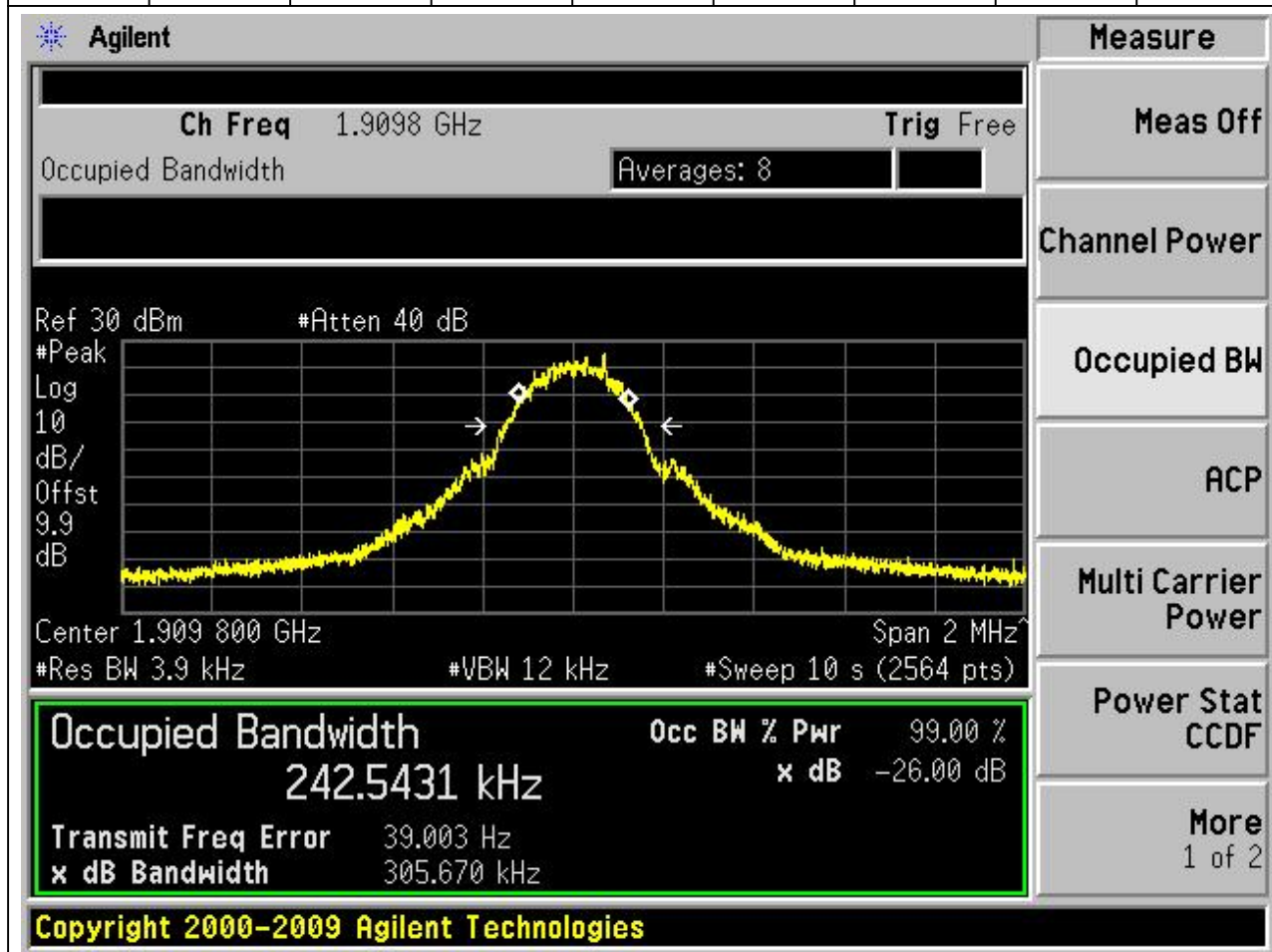
## 2.2 GSM Occupied Bandwidth\_Part22-24(NTNV)(Channel:661)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1880                   | 99            | 26            | 0.004     | Peak     | 0.244     | 0.301               | 0.3               | Pass    |



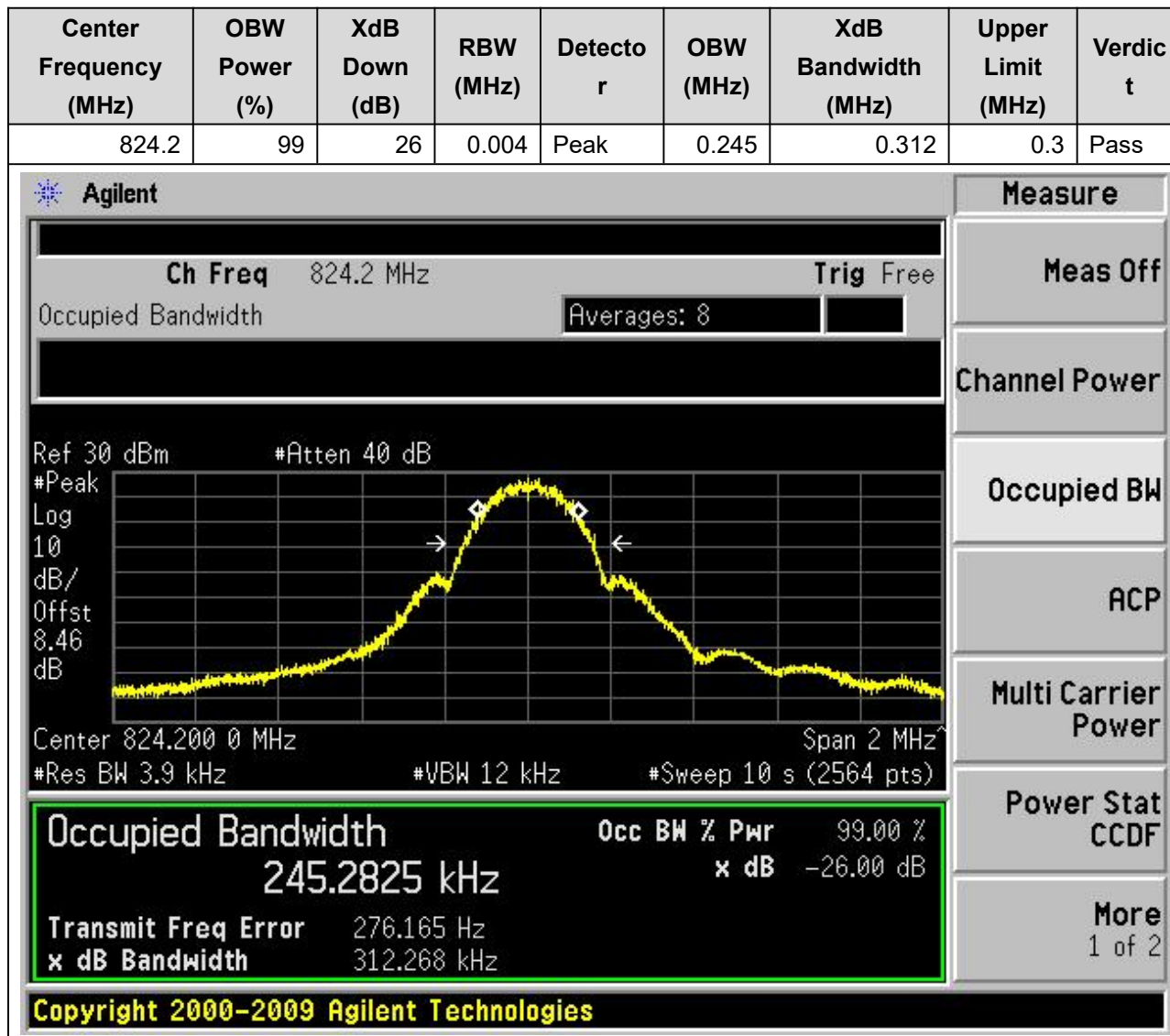
### 2.3 GSM Occupied Bandwidth\_Part22-24(NTNV)(Channel:810)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1909.8                 | 99            | 26            | 0.004     | Peak     | 0.243     | 0.306               | 0.3               | Pass    |



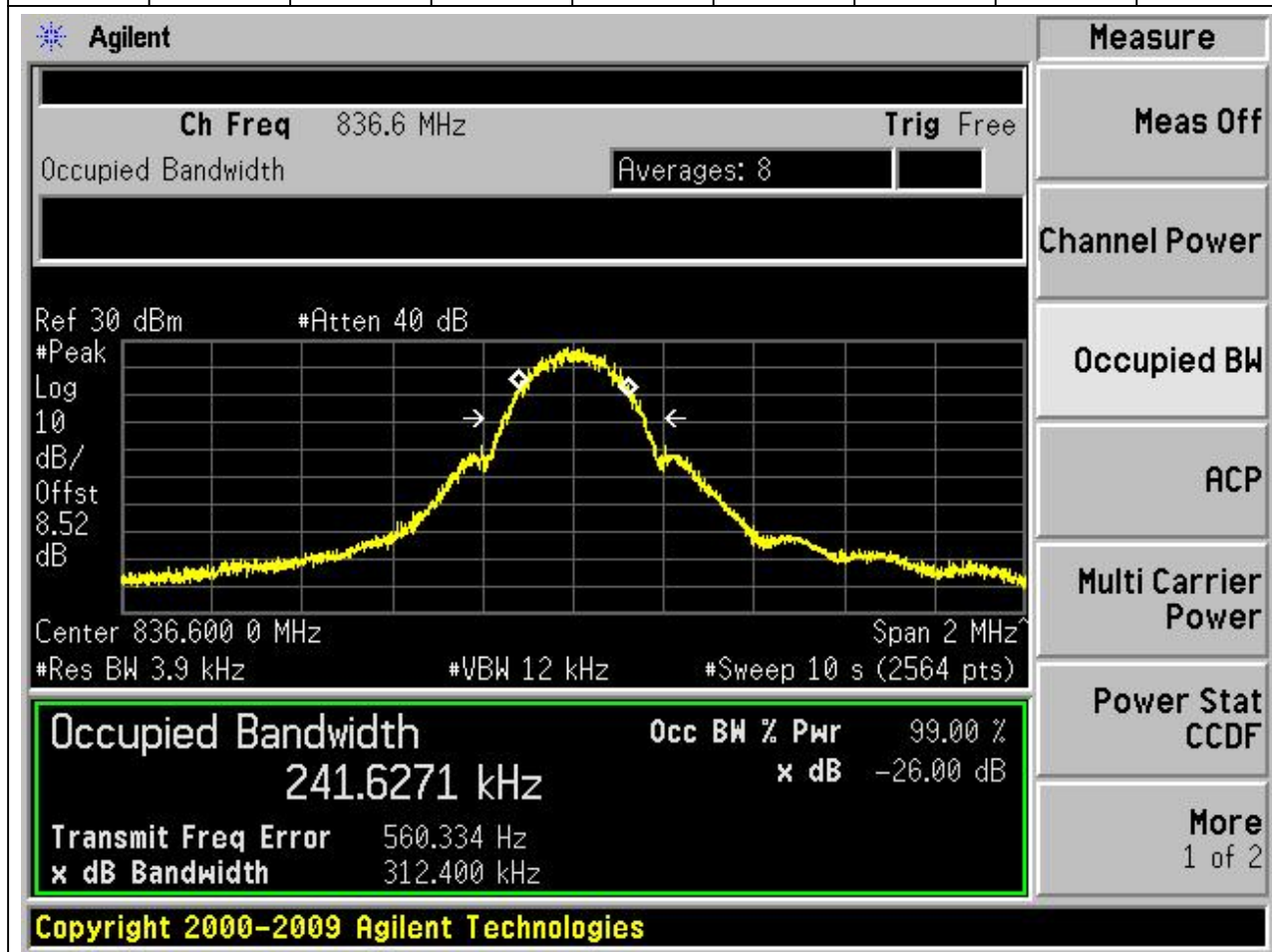
### 3. GPRS\_GSM850

#### 3.1 GPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:128)

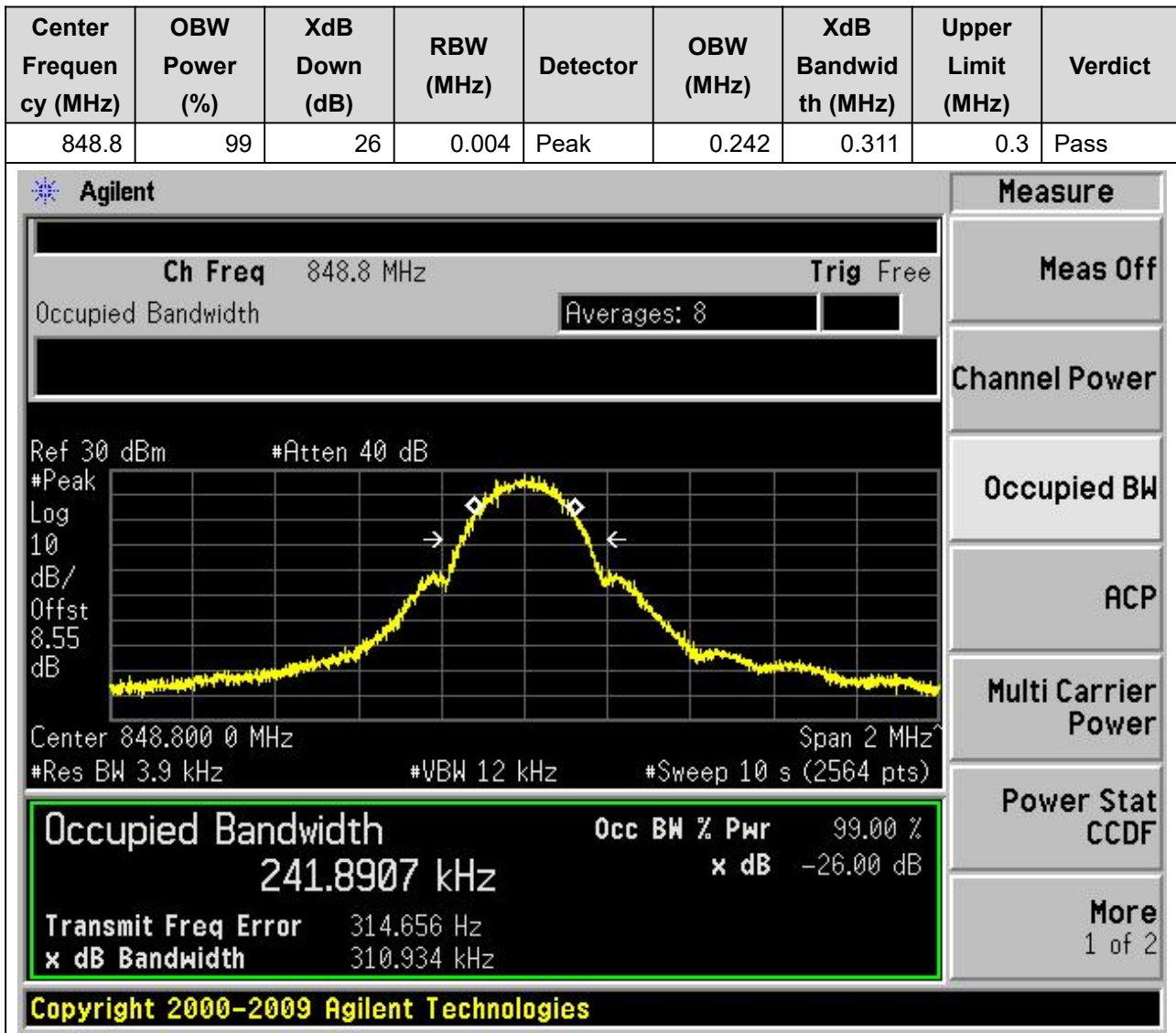


### 3.2 GPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:190)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 836.6                  | 99            | 26            | 0.004     | Peak     | 0.242     | 0.312               | 0.3               | Pass    |



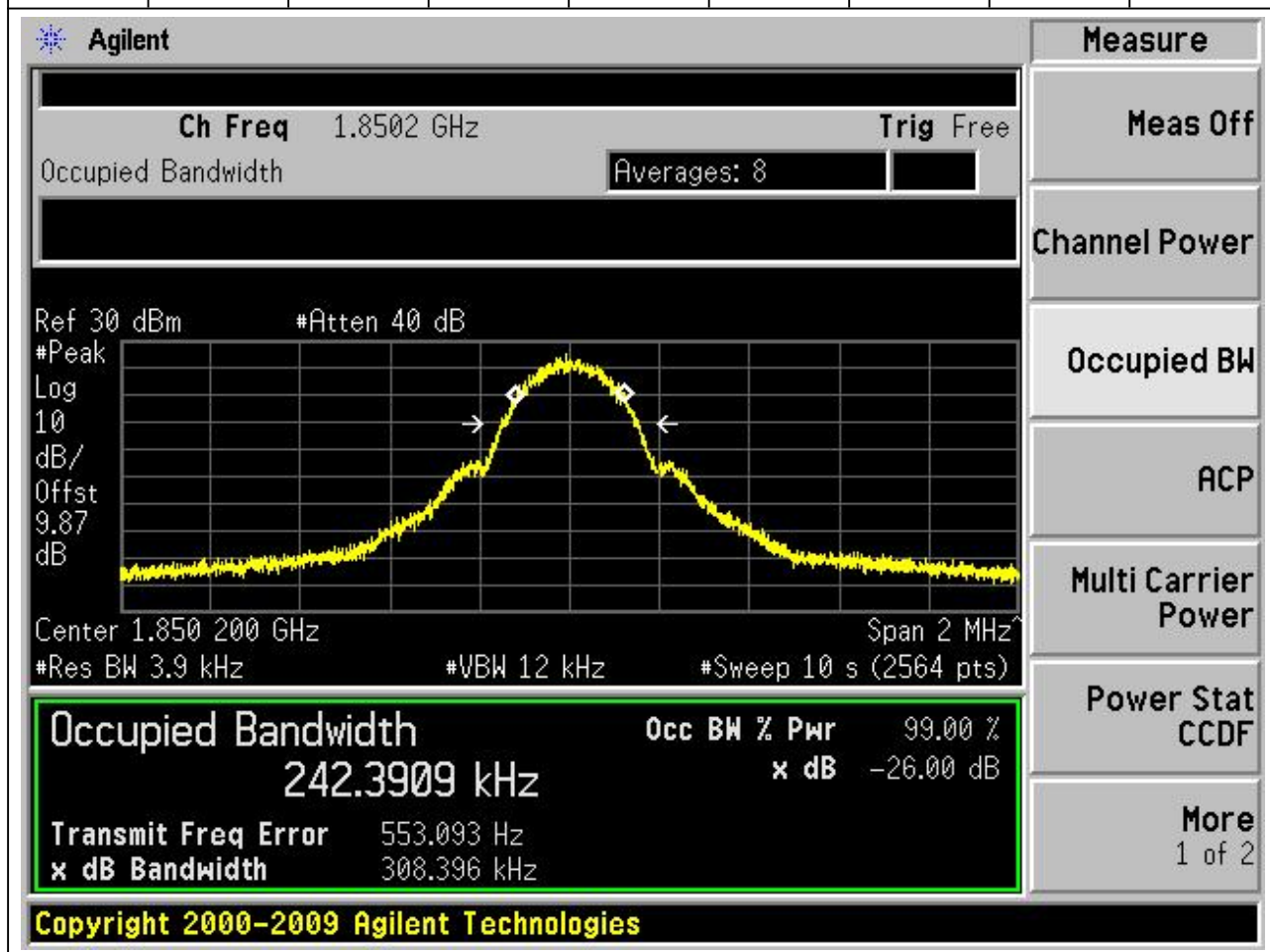
### 3.3 GPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:251)



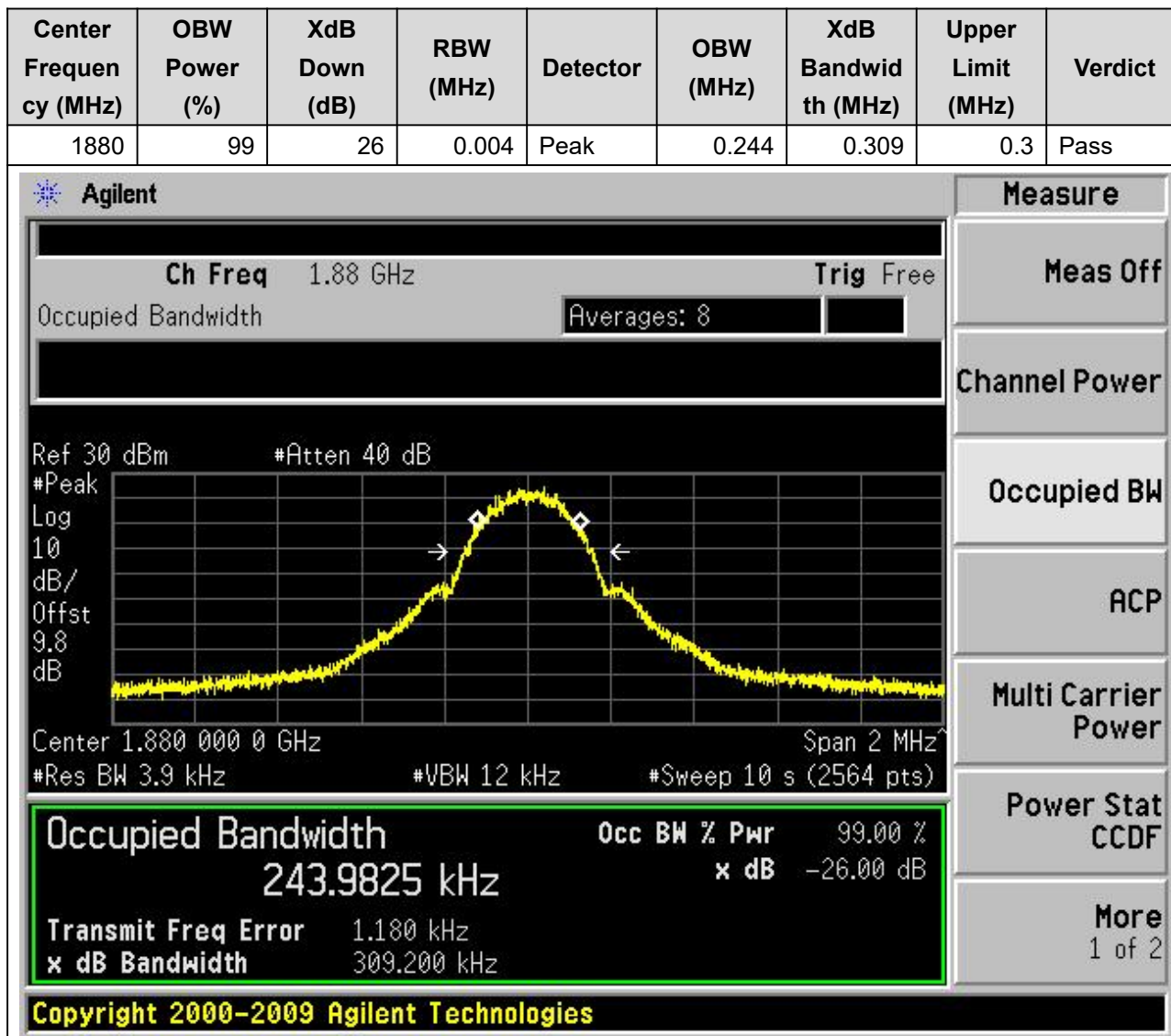
## 4. GPRS\_PCS

### 4.1 GPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:512)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1850.2                 | 99            | 26            | 0.004     | Peak     | 0.242     | 0.308               | 0.3               | Pass    |

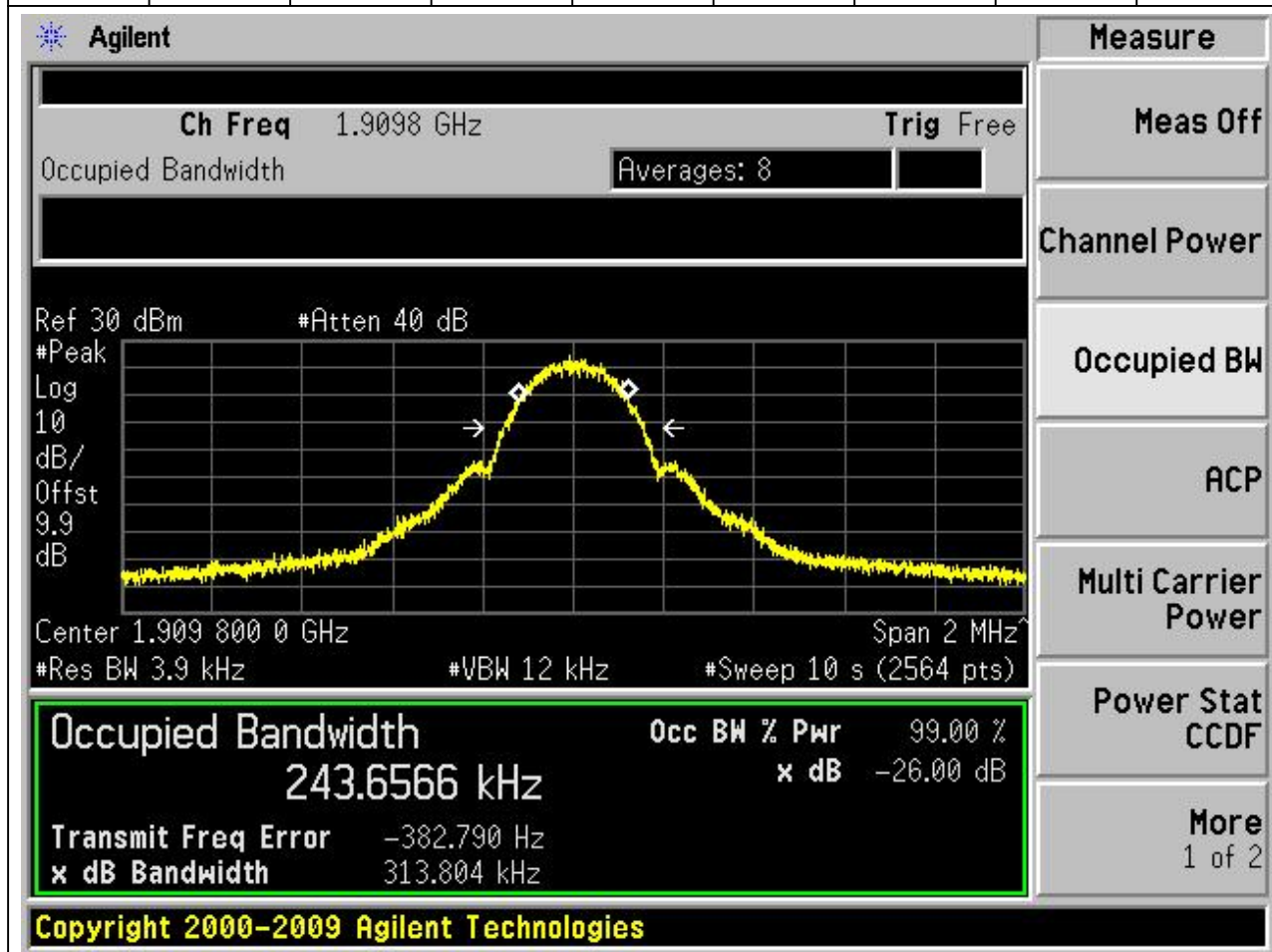


## 4.2 GPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:661)



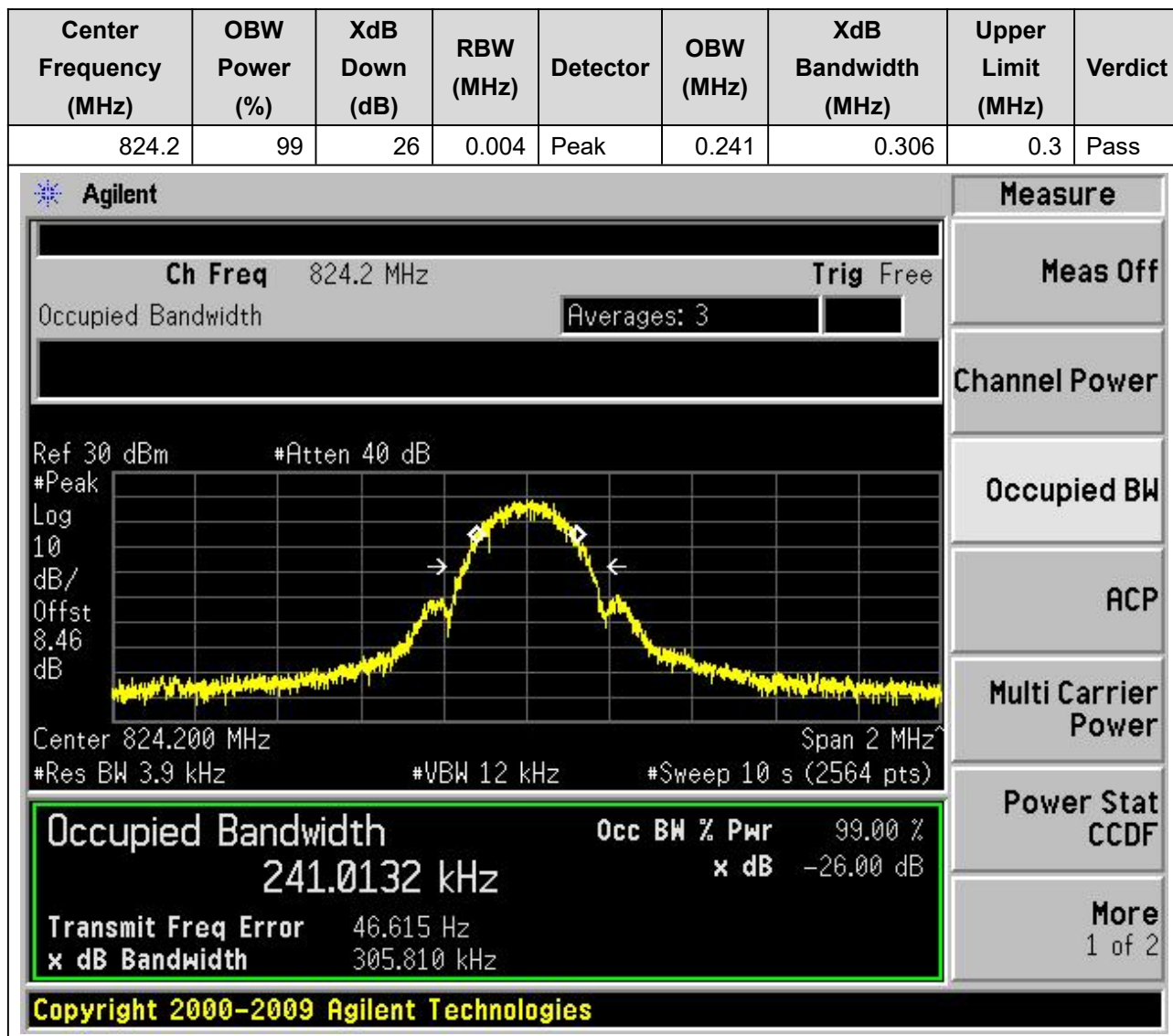
#### 4.3 GPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:810)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1909.8                 | 99            | 26            | 0.004     | Peak     | 0.244     | 0.314               | 0.3               | Pass    |

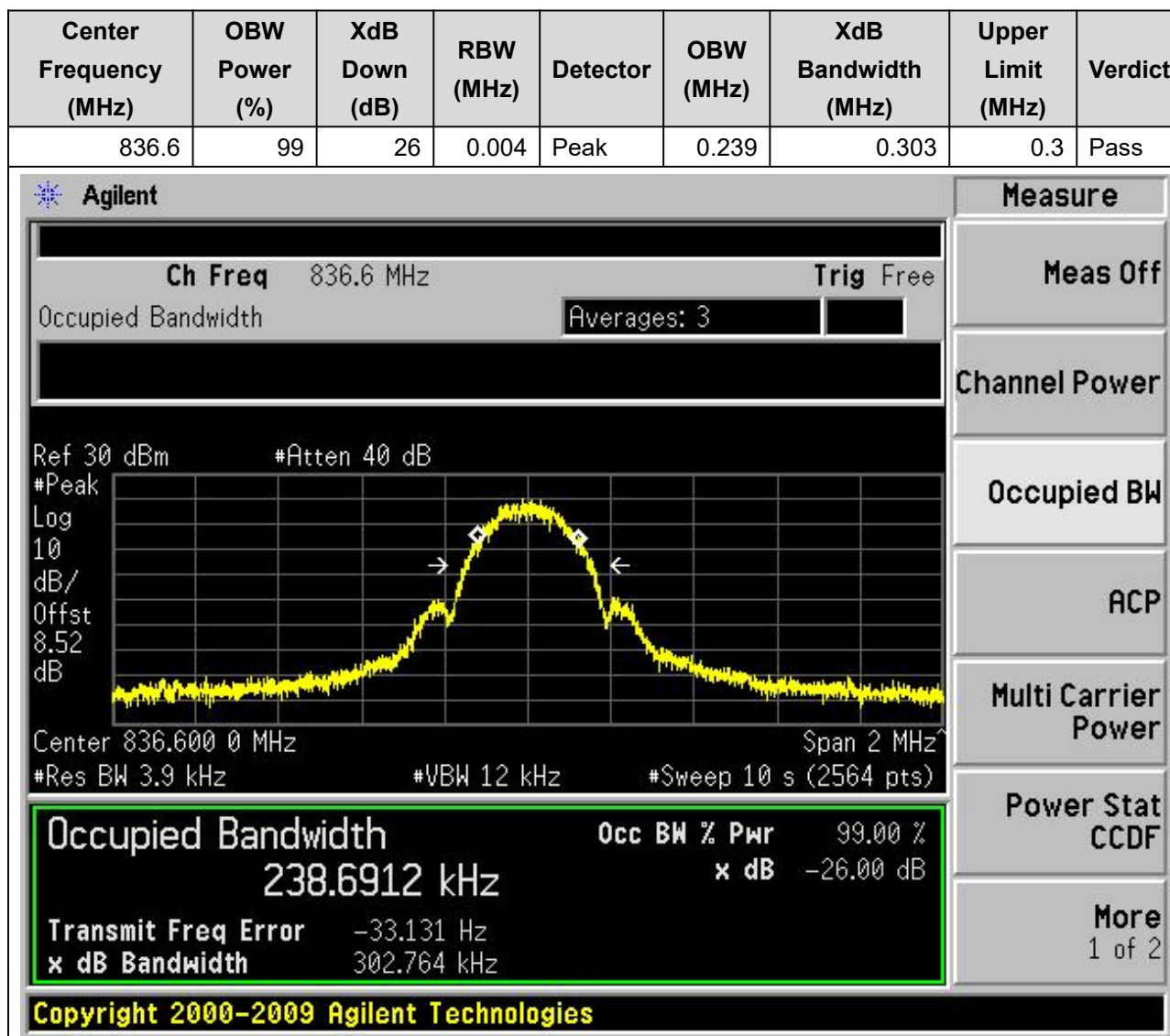


## 5. EGPRS\_GSM850

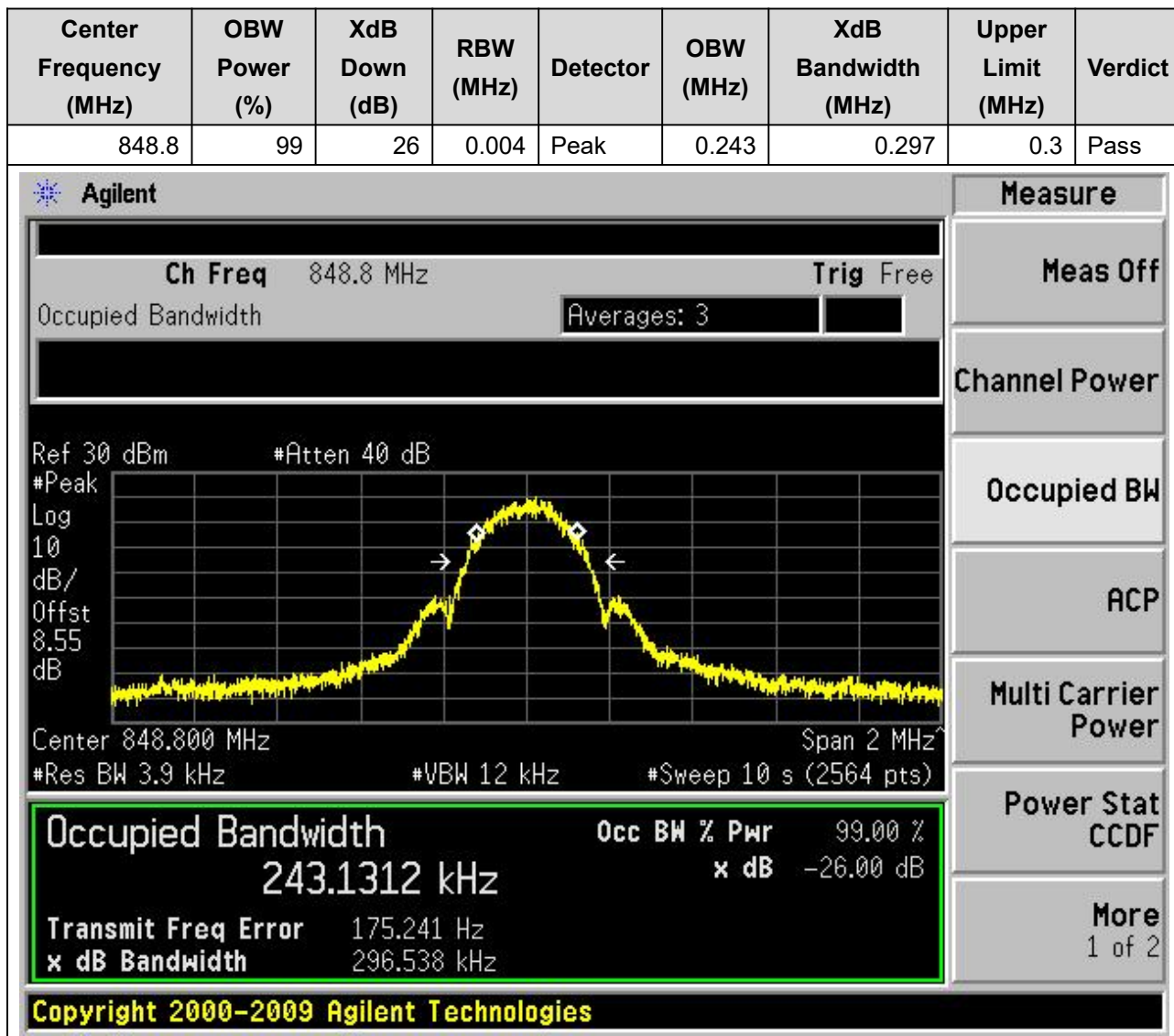
### 5.1 EGPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:128)



## 5.2 EGPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:190)

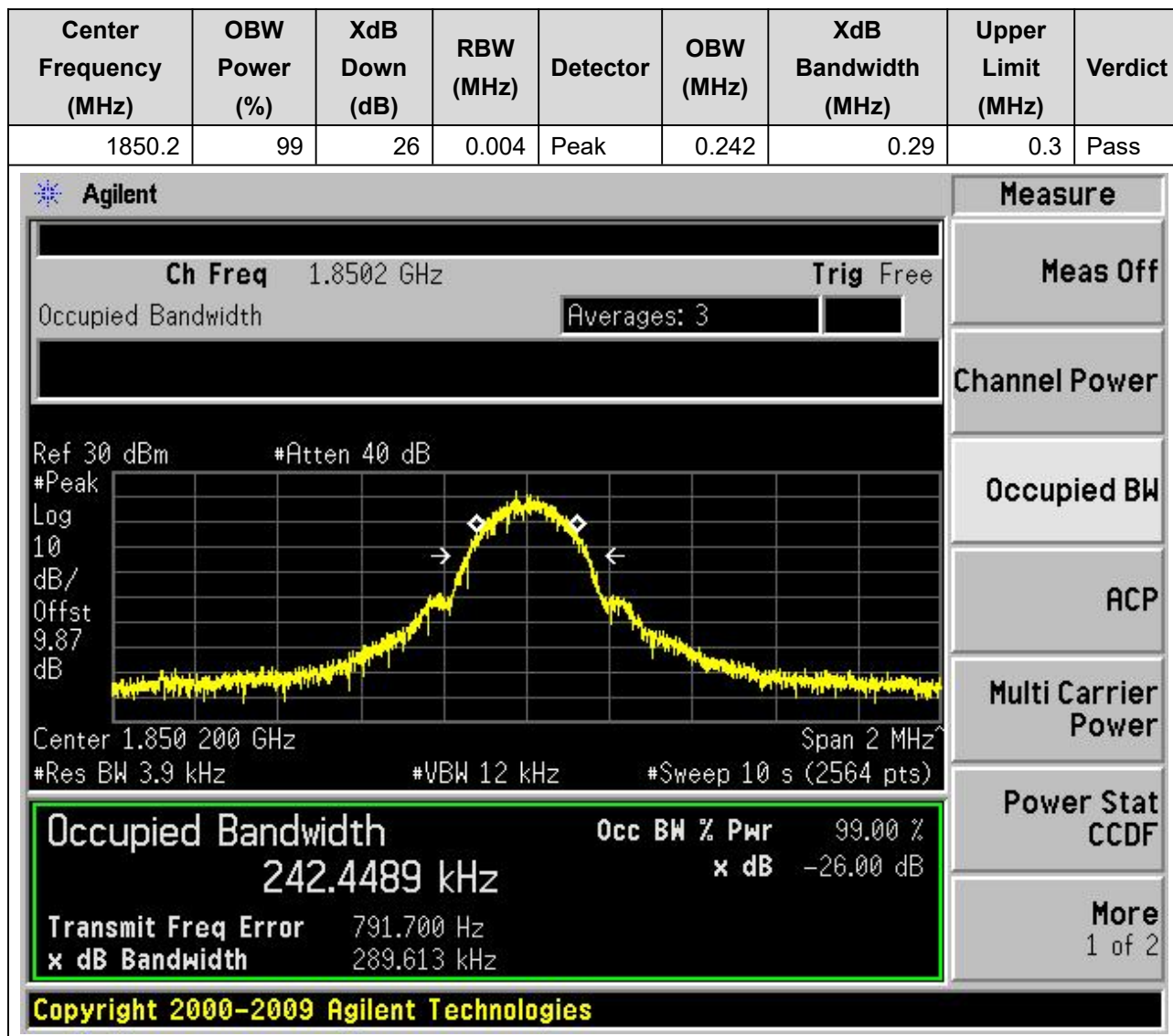


### 5.3 EGPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:251)

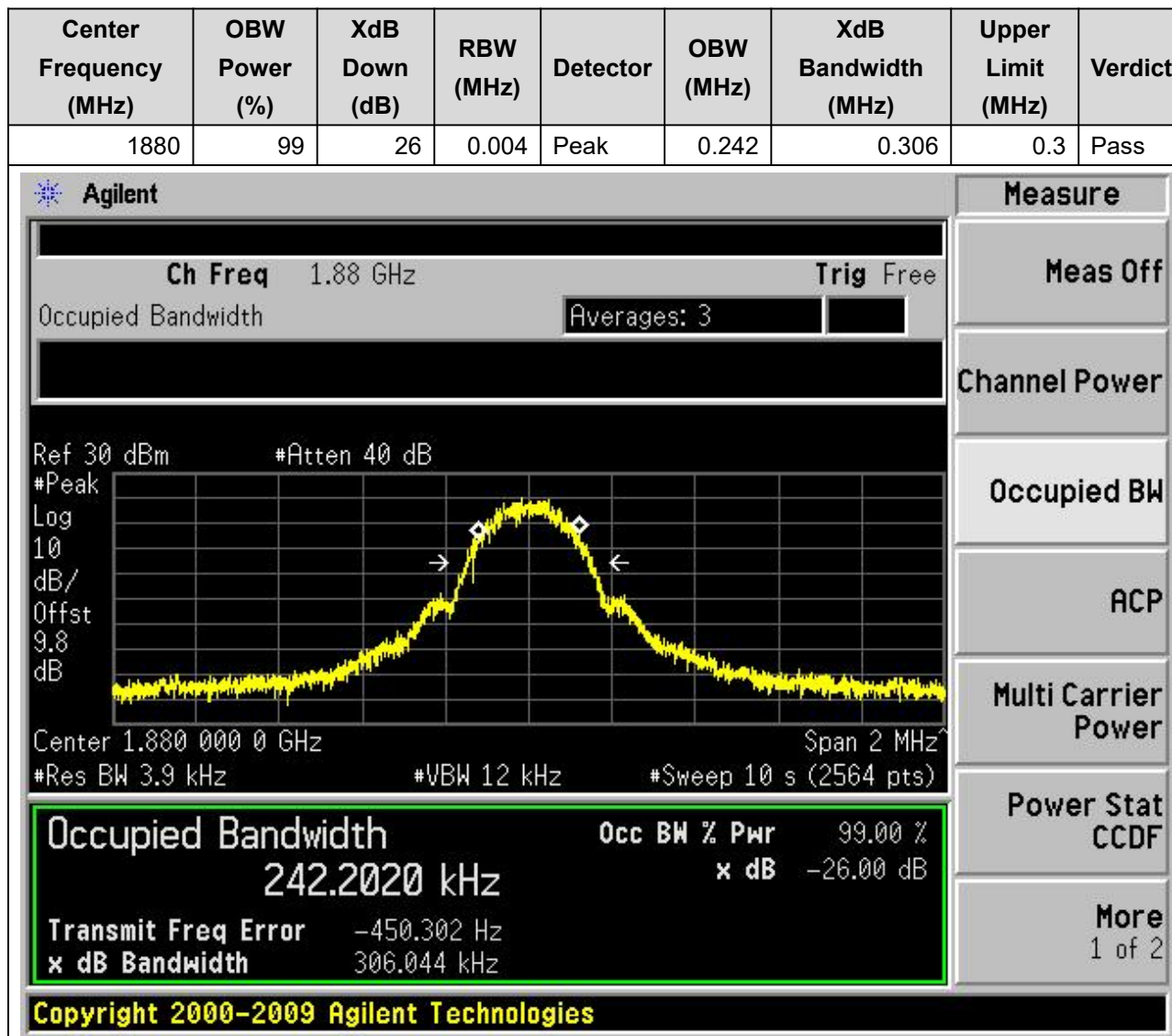


## 6. EGPRS\_PCS

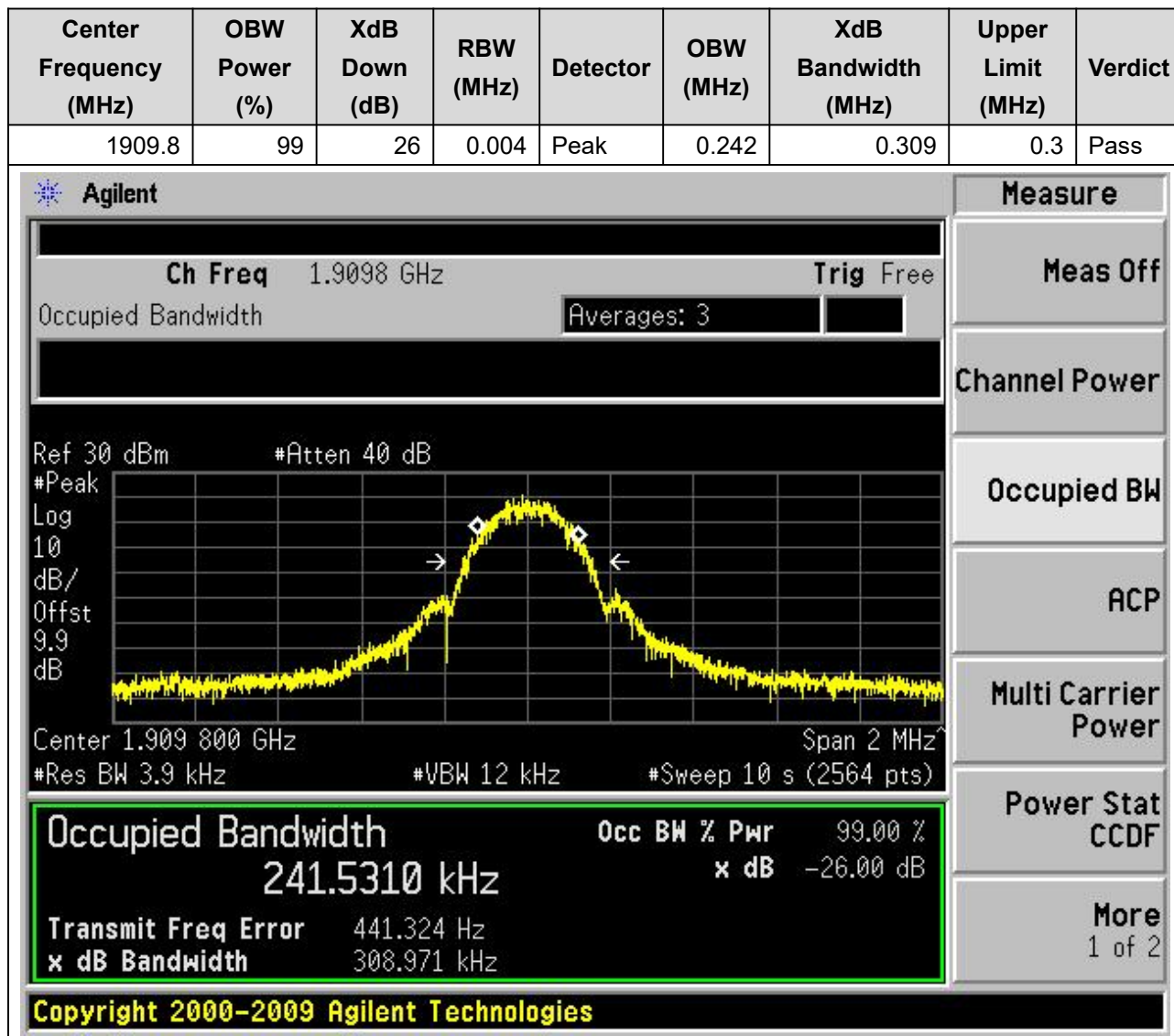
### 6.1 EGPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:512)



## 6.2 EGPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:661)

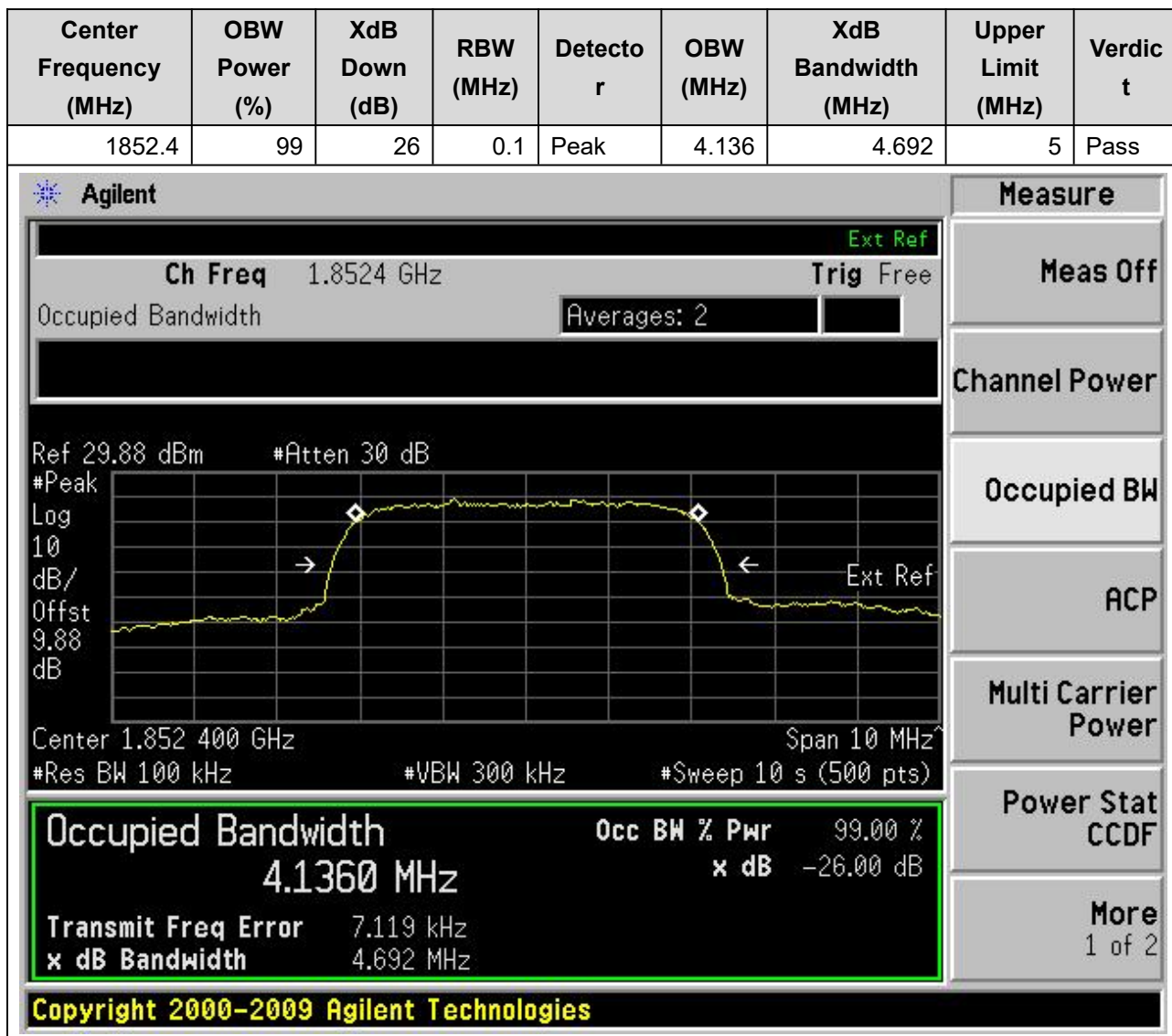


### 6.3 EGPRS Occupied Bandwidth\_Part22-24(NTNV)(Channel:810)

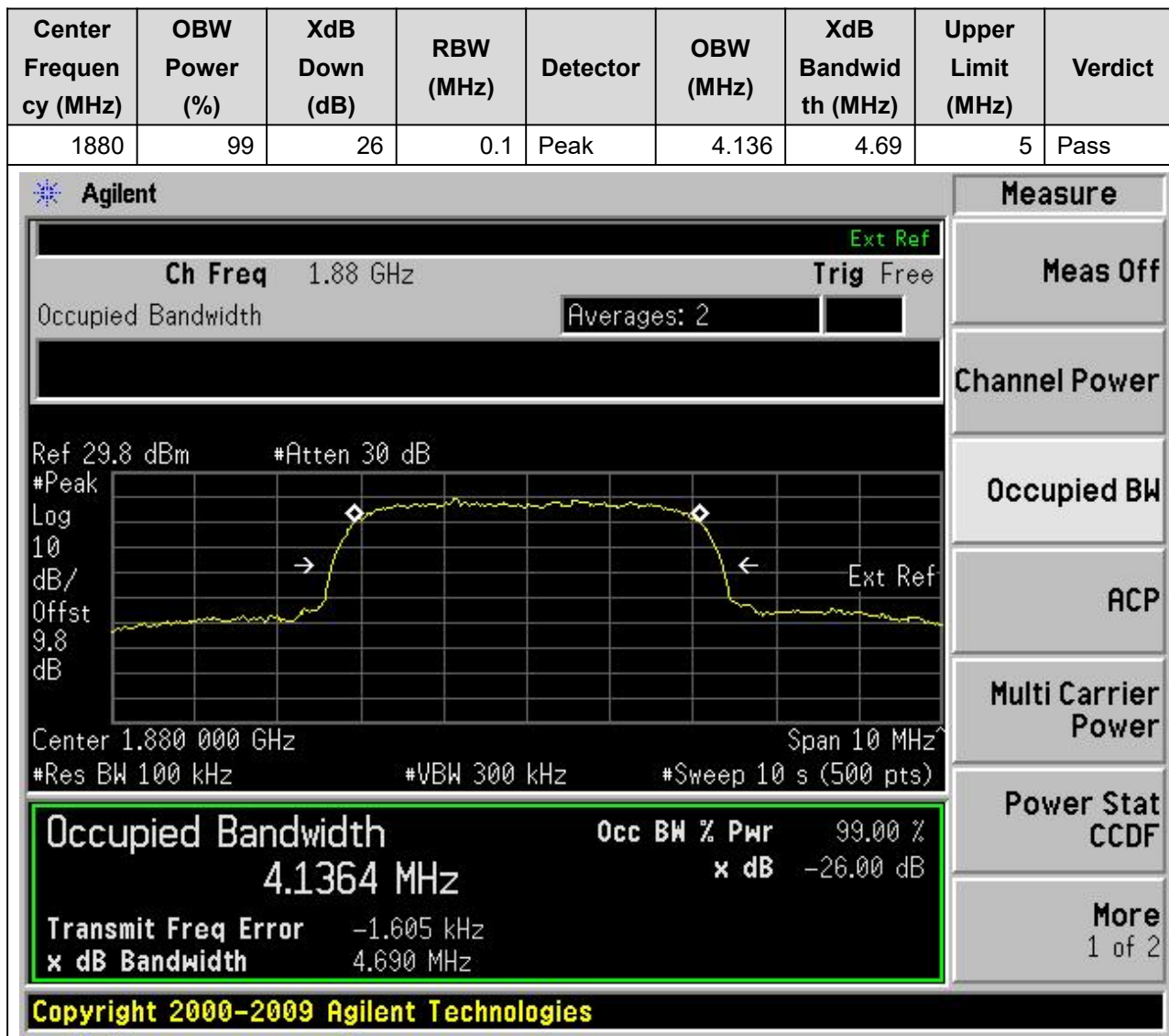


## 7. WCDMA\_Band2

### 7.1 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:9262)

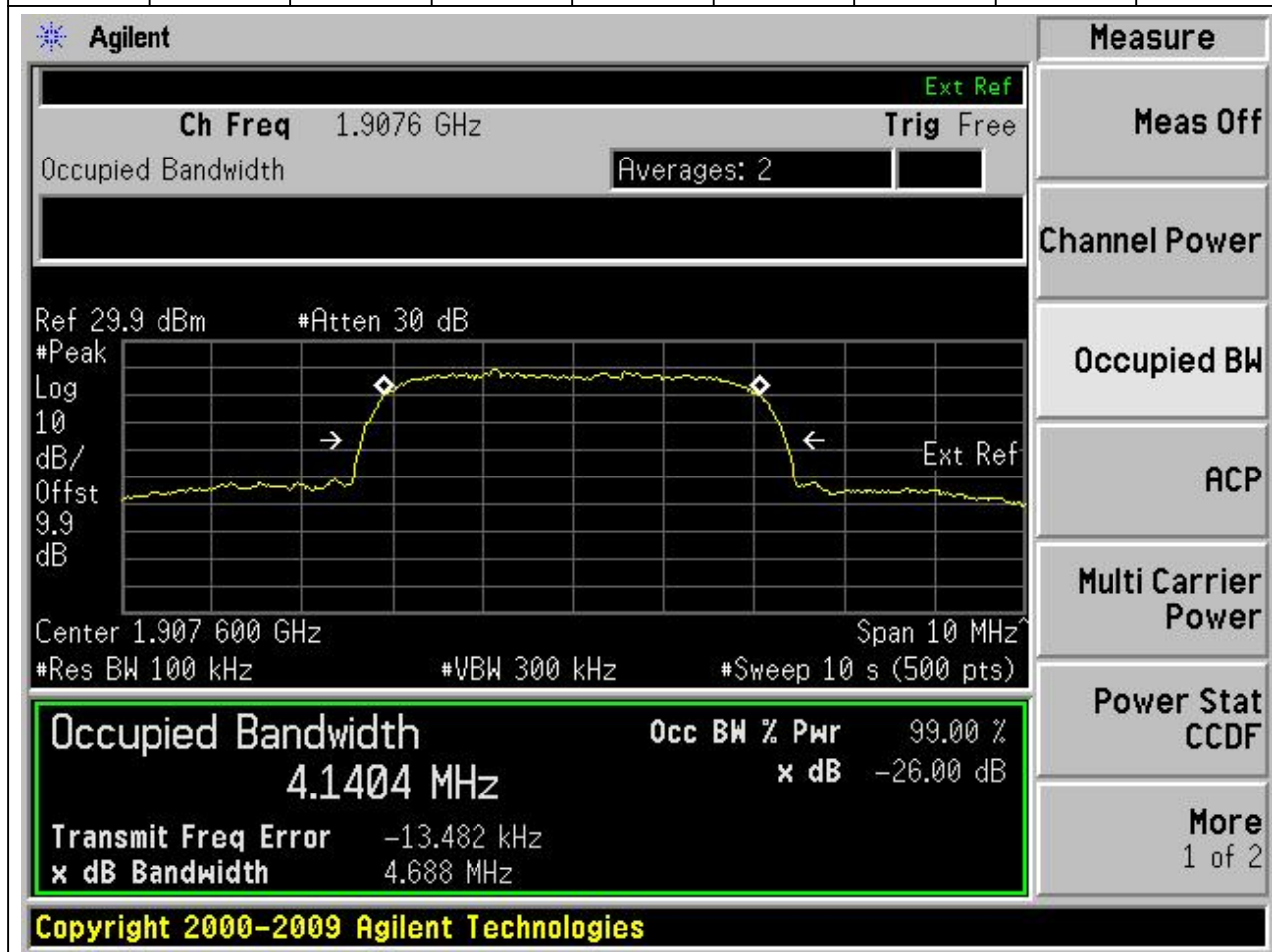


## 7.2 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:9400)



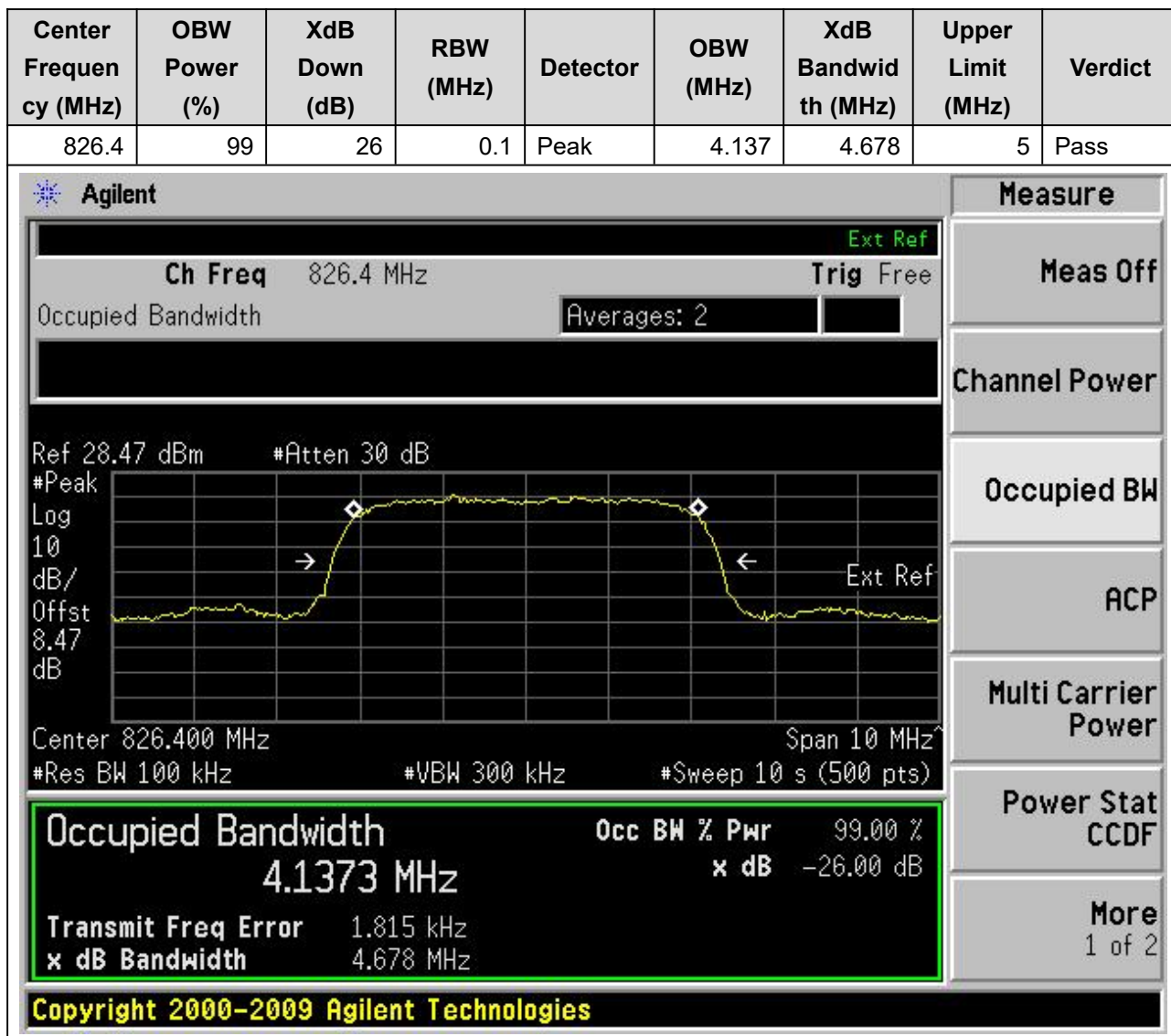
### 7.3 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:9538)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1907.6                 | 99            | 26            | 0.1       | Peak     | 4.14      | 4.688               | 5                 | Pass    |

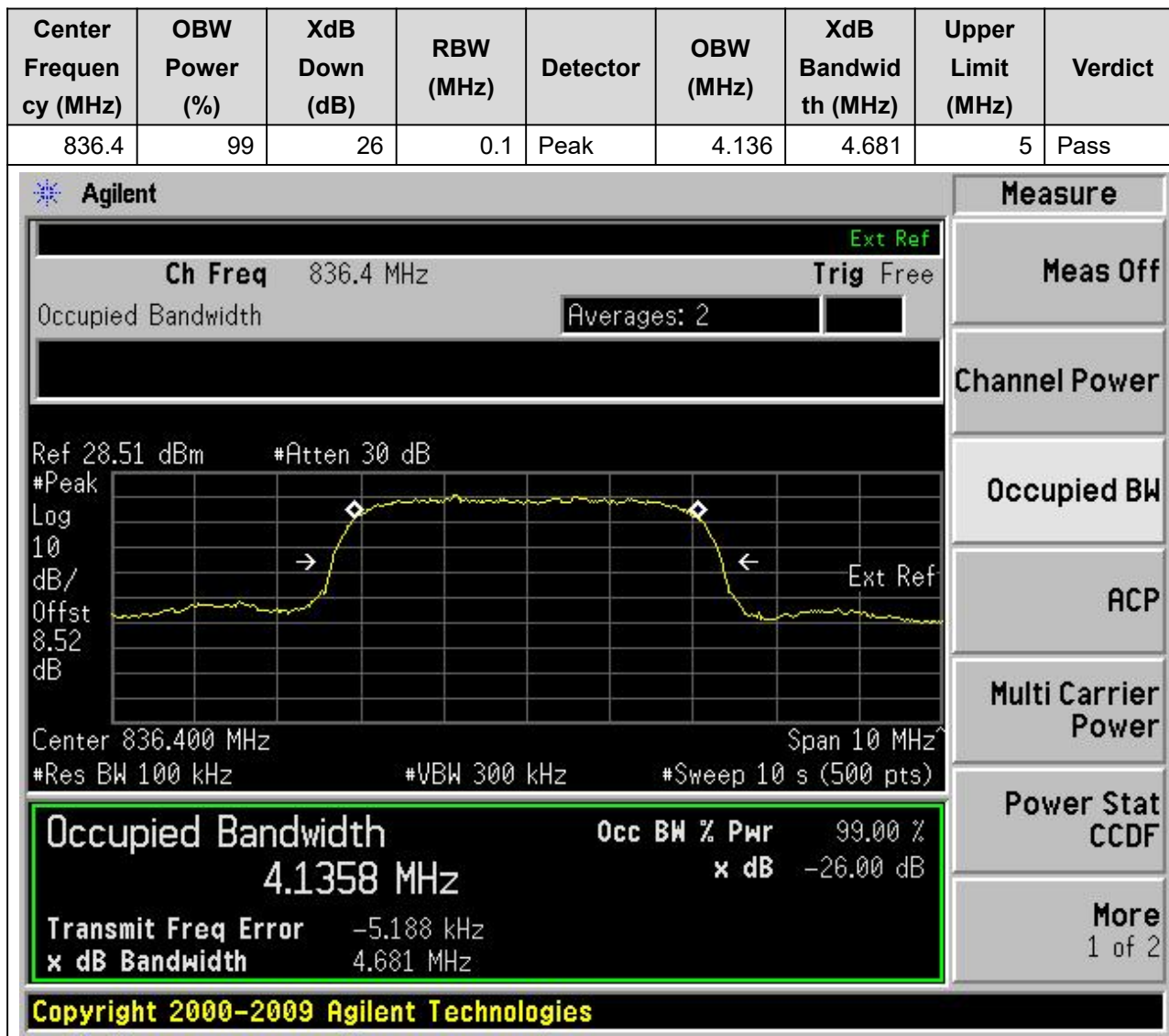


## 8. WCDMA\_Band5

### 8.1 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:4132)

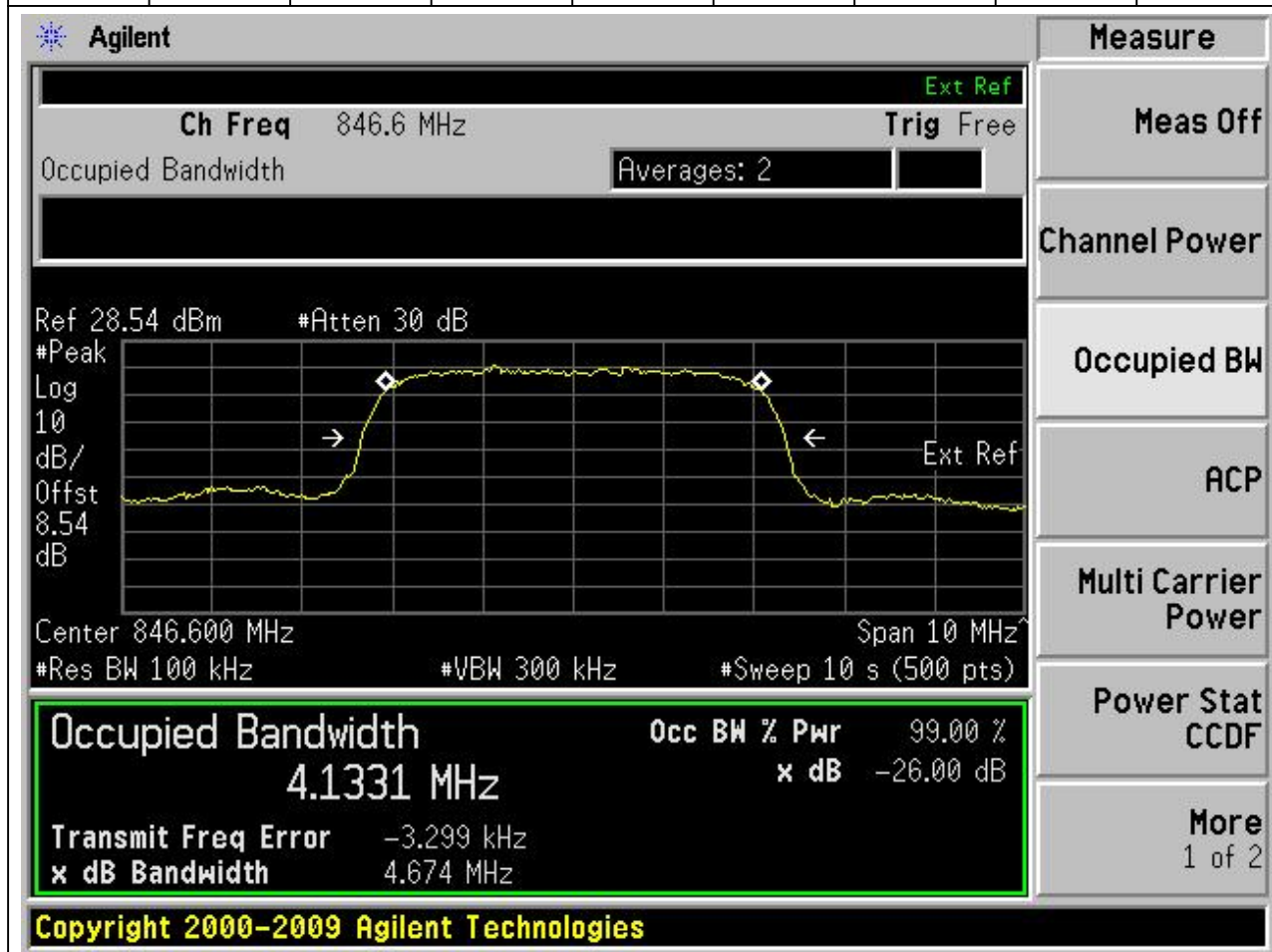


## 8.2 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:4182)



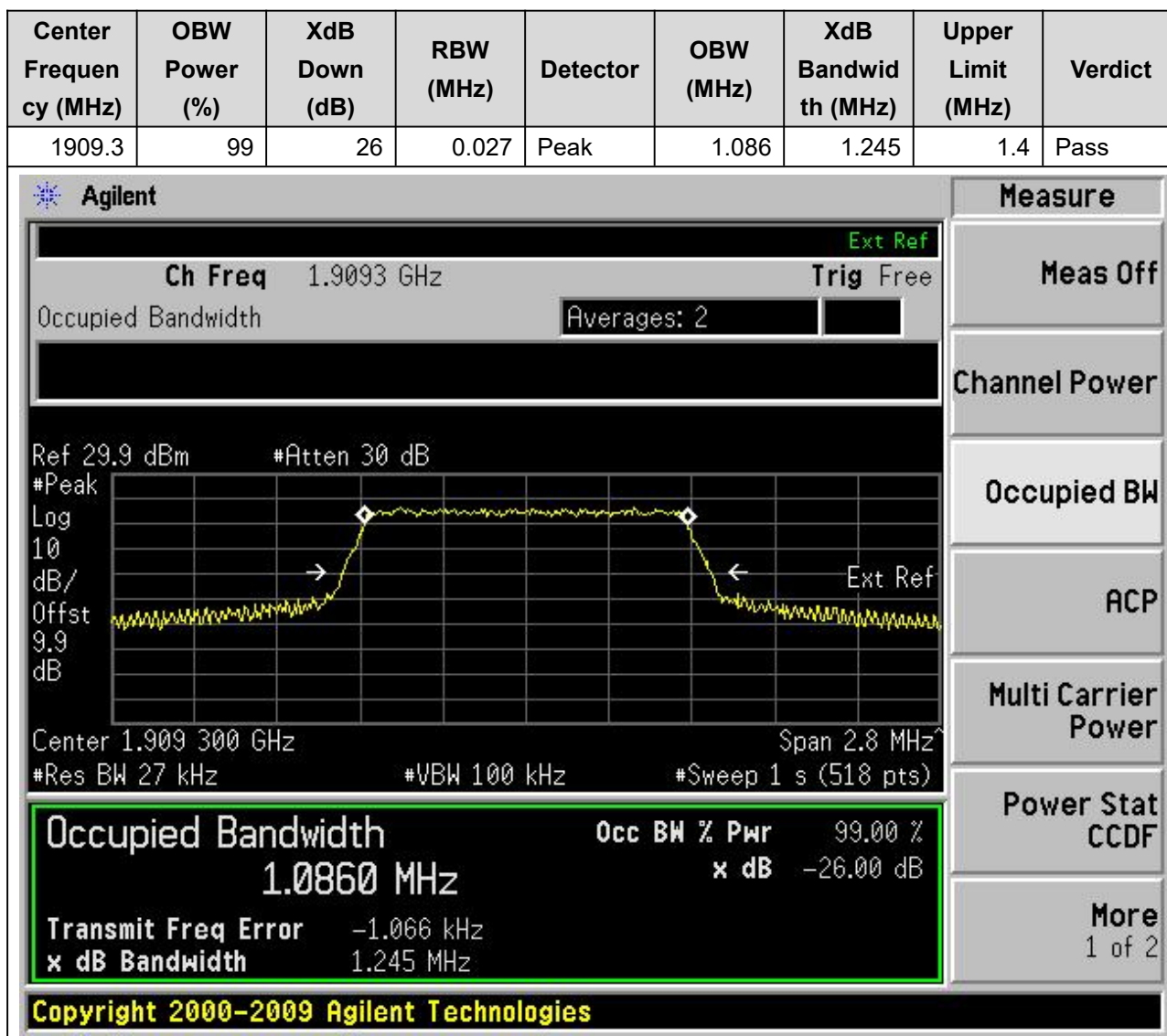
### 8.3 WCDMA Occupied Bandwidth\_Part22-24-27(NTNV)(Channel:4233)

| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 846.6                  | 99            | 26            | 0.1       | Peak     | 4.133     | 4.674               | 5                 | Pass    |

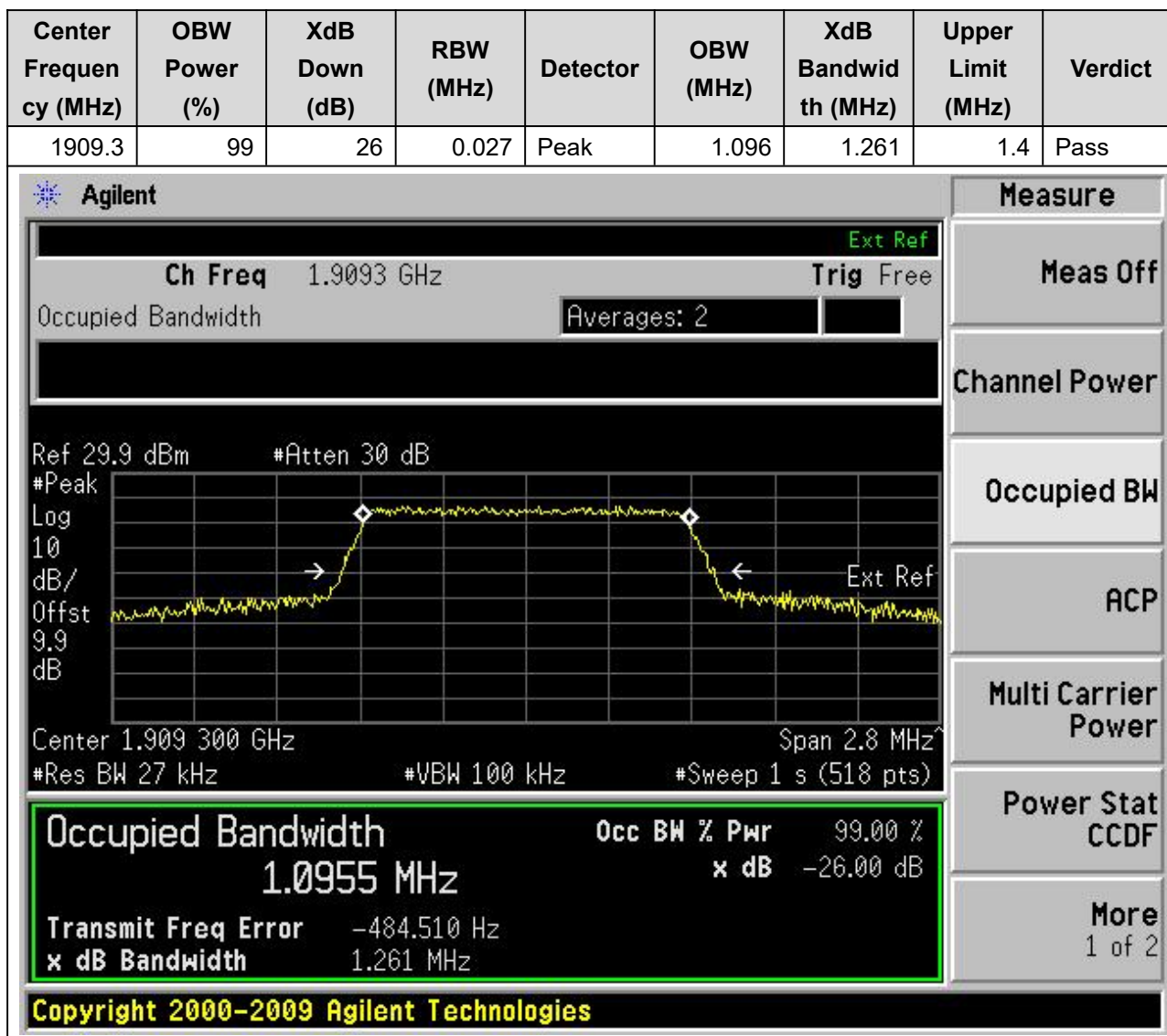


## 9. LTE\_Band2

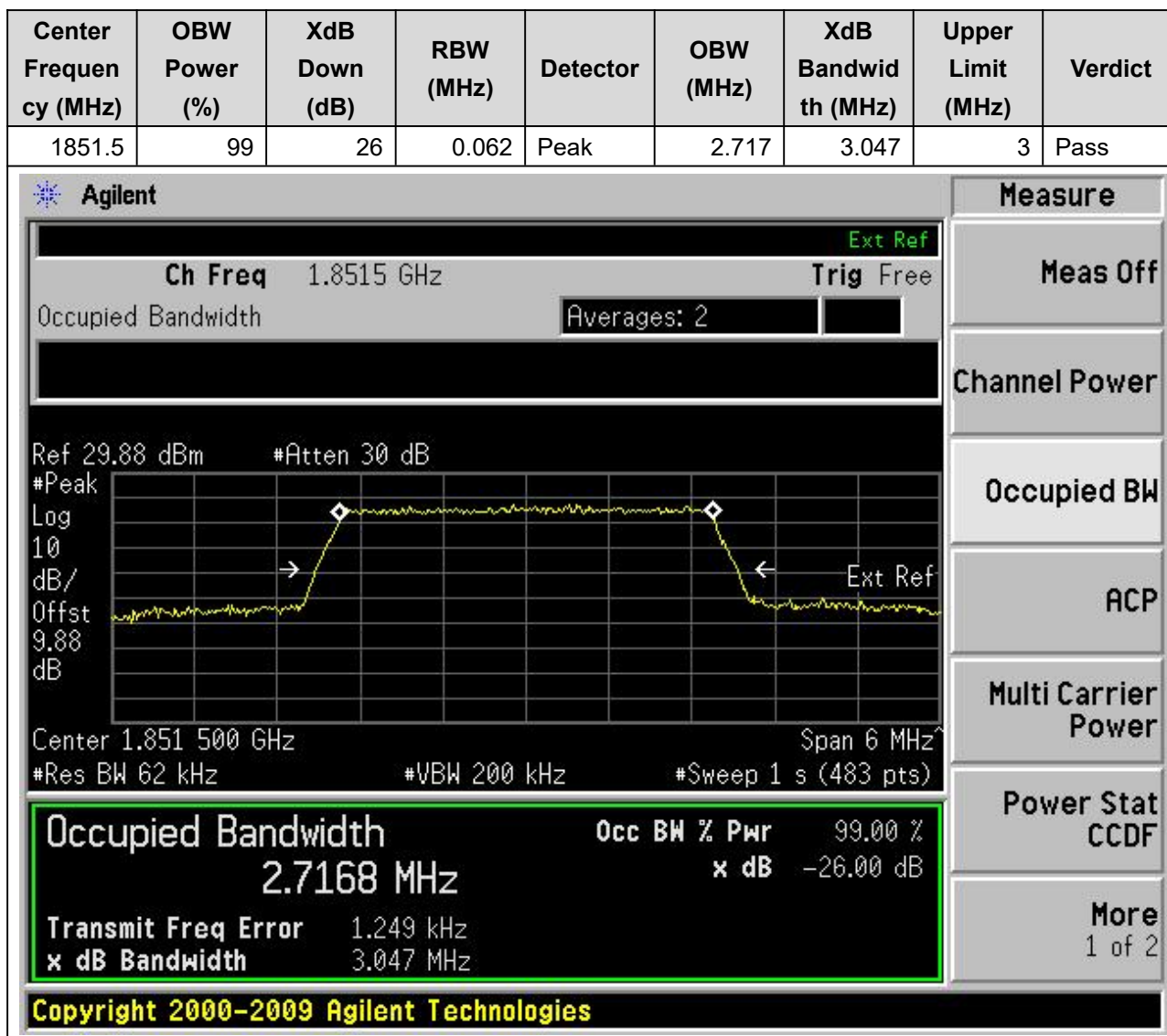
### 9.1 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:1, Channel:19193, Bandwidth:1.4, Modulation:QPSK, RB Number: 6, RB Position:LOW)



**9.2 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:2, Channel:19193, Bandwidth:1.4, Modulation:Q16, RB Number: 6, RB Position:LOW)**

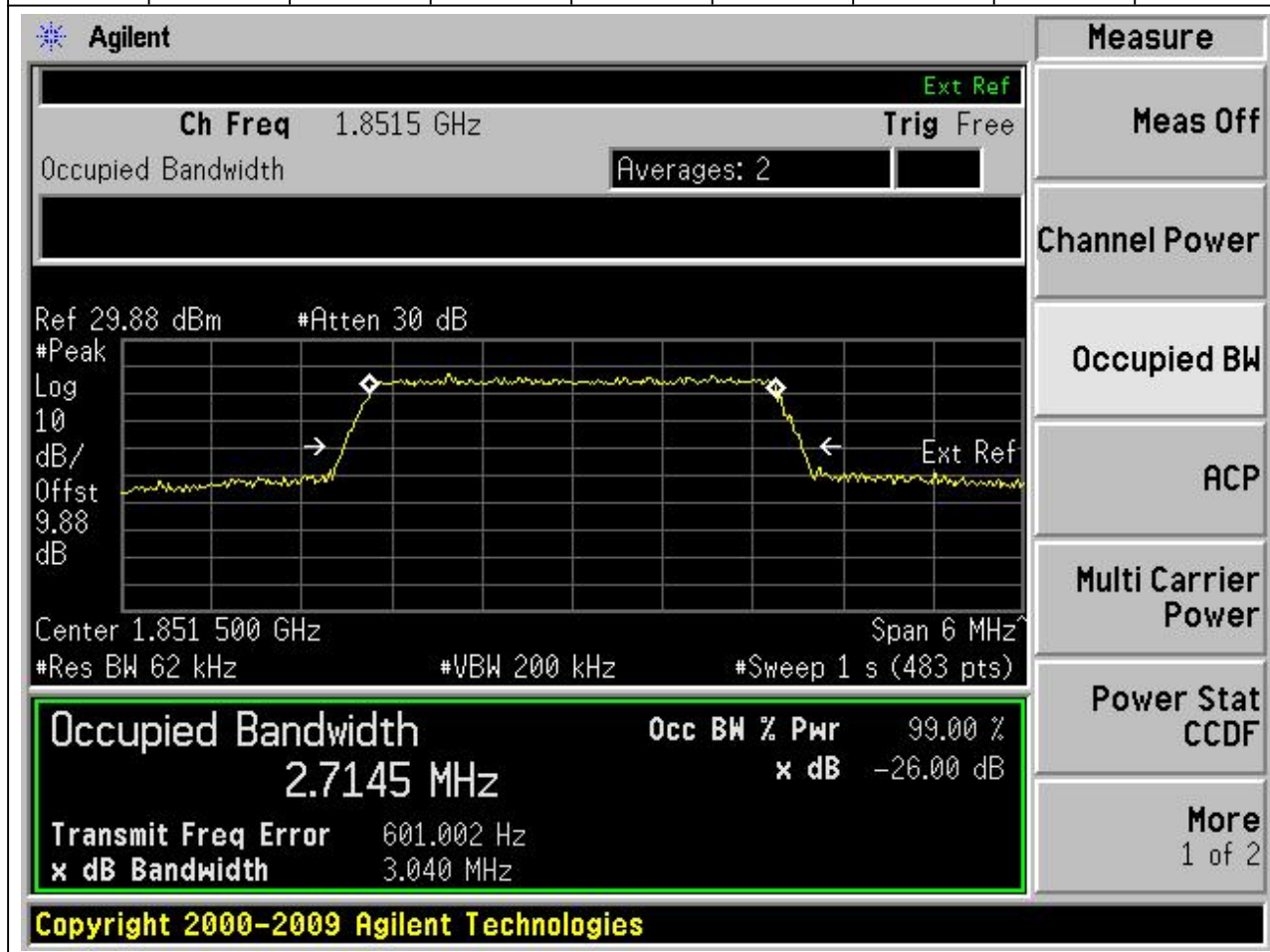


**9.3 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:3, Channel:18615, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**

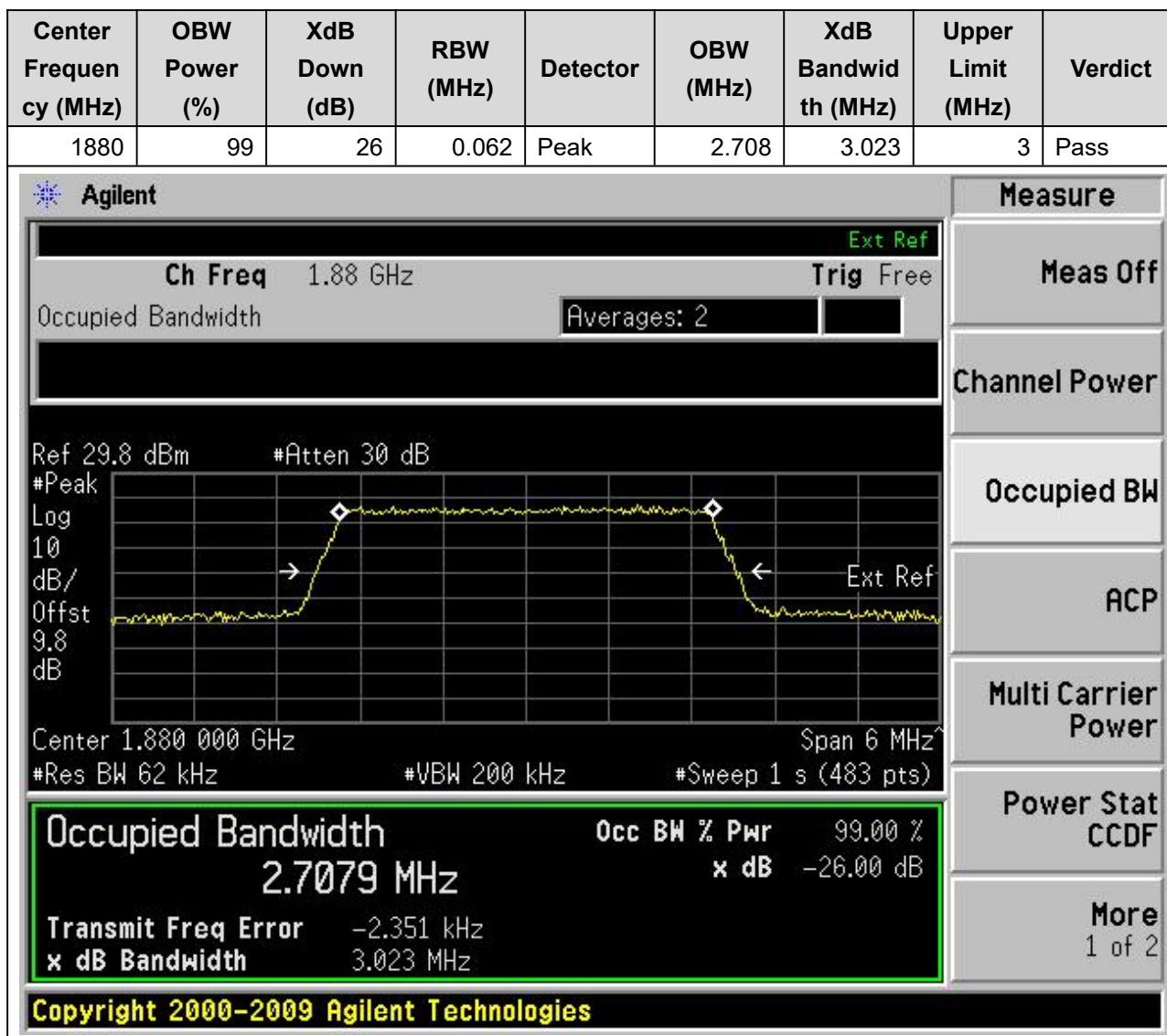


**9.4 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:4, Channel:18615, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**

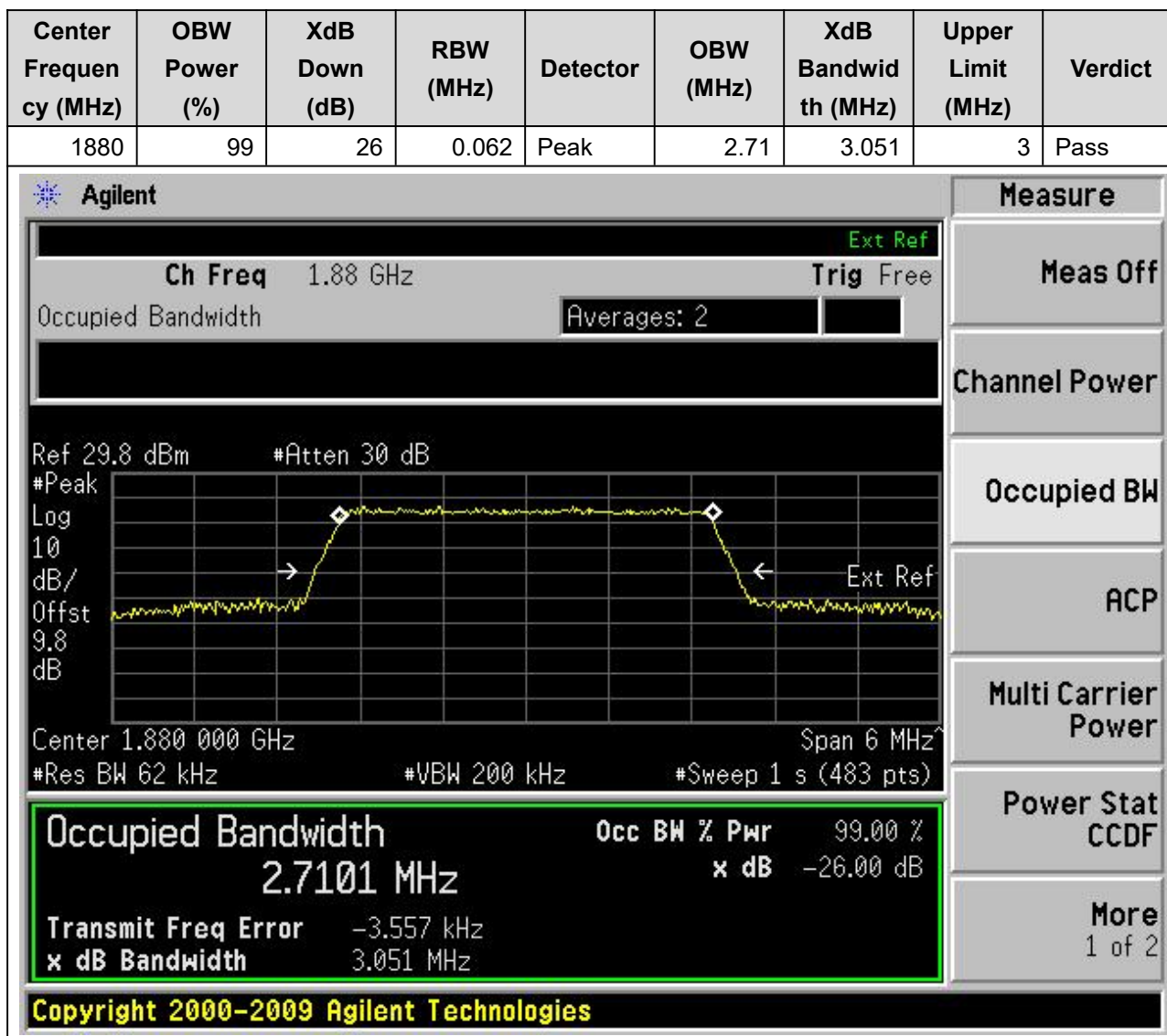
| Center Frequency (MHz) | OBW Power (%) | XdB Down (dB) | RBW (MHz) | Detector | OBW (MHz) | XdB Bandwidth (MHz) | Upper Limit (MHz) | Verdict |
|------------------------|---------------|---------------|-----------|----------|-----------|---------------------|-------------------|---------|
| 1851.5                 | 99            | 26            | 0.062     | Peak     | 2.715     | 3.04                | 3                 | Pass    |



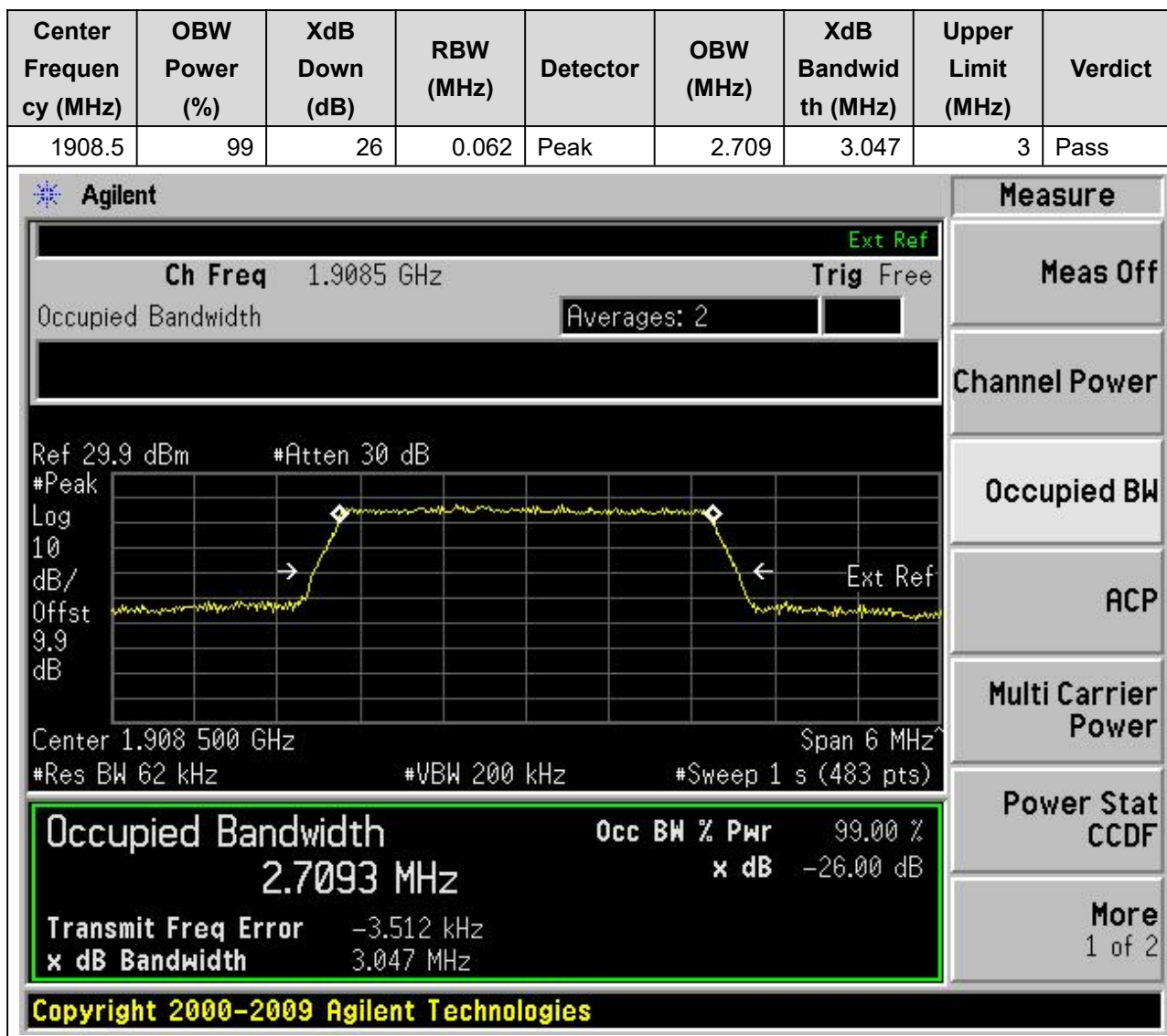
**9.5 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:5, Channel:18900, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



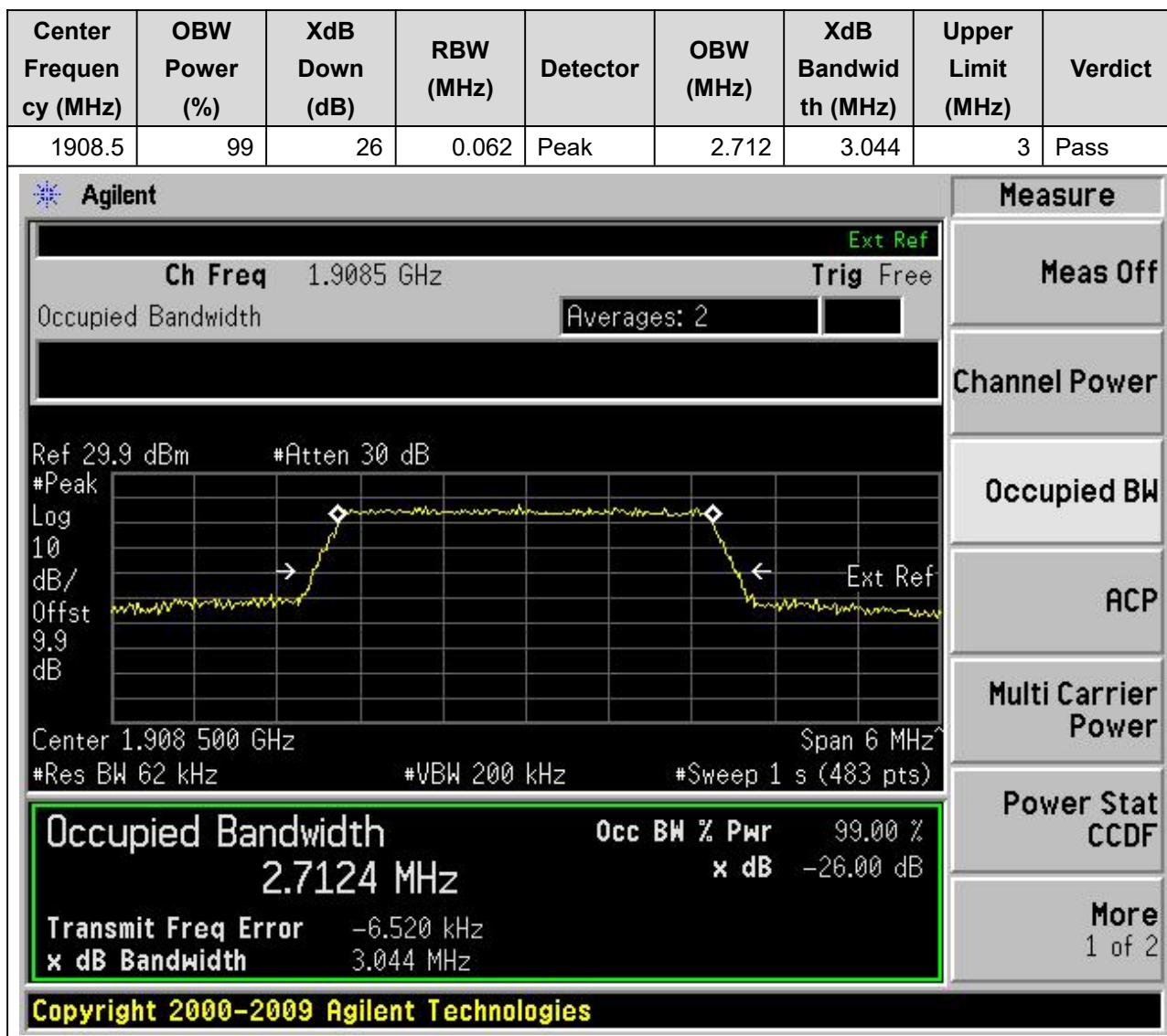
**9.6 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:6, Channel:18900, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



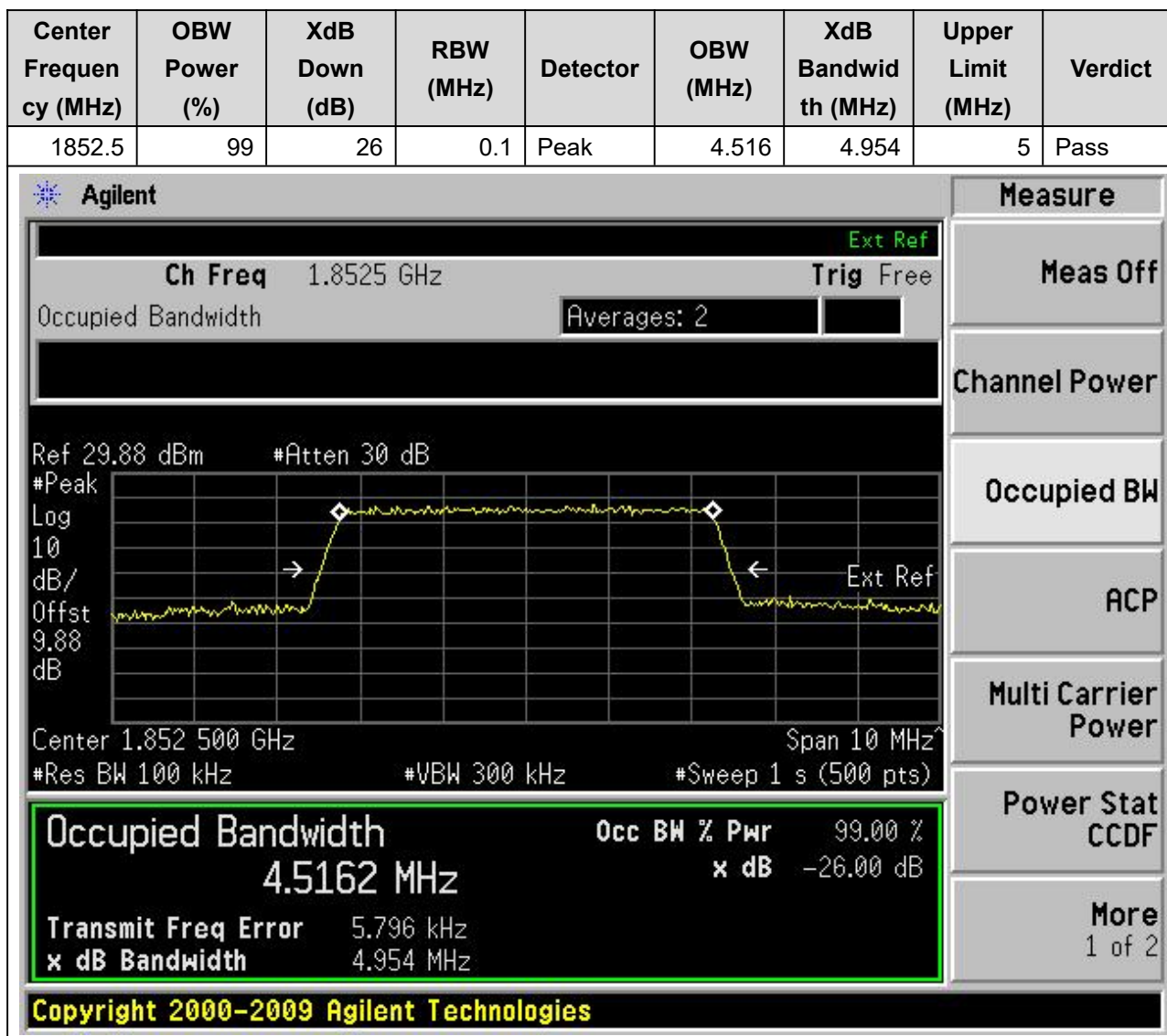
**9.7 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:7, Channel:19185, Bandwidth:3, Modulation:QPSK, RB Number: 15, RB Position:LOW)**



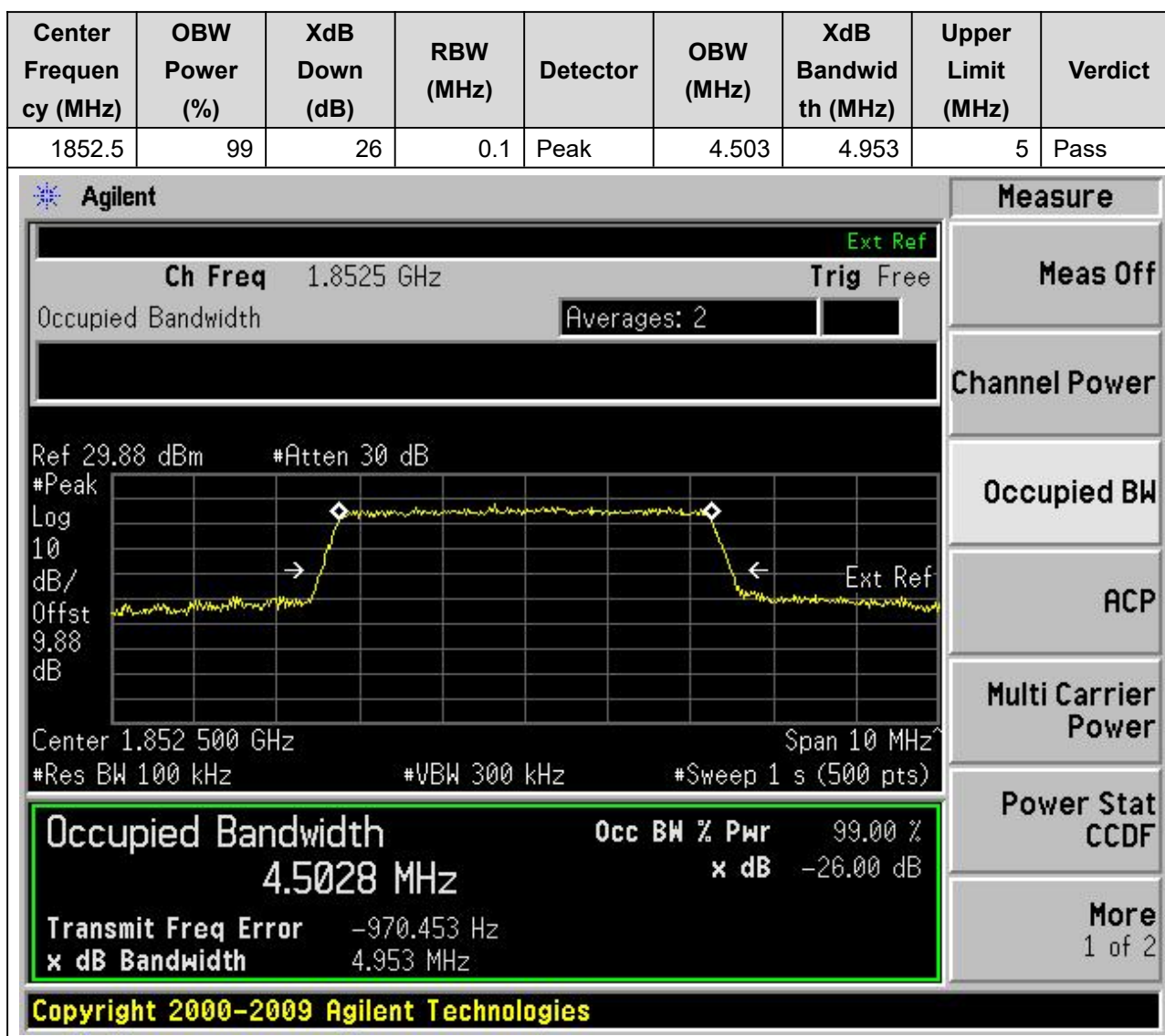
**9.8 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:8, Channel:19185, Bandwidth:3, Modulation:Q16, RB Number: 15, RB Position:LOW)**



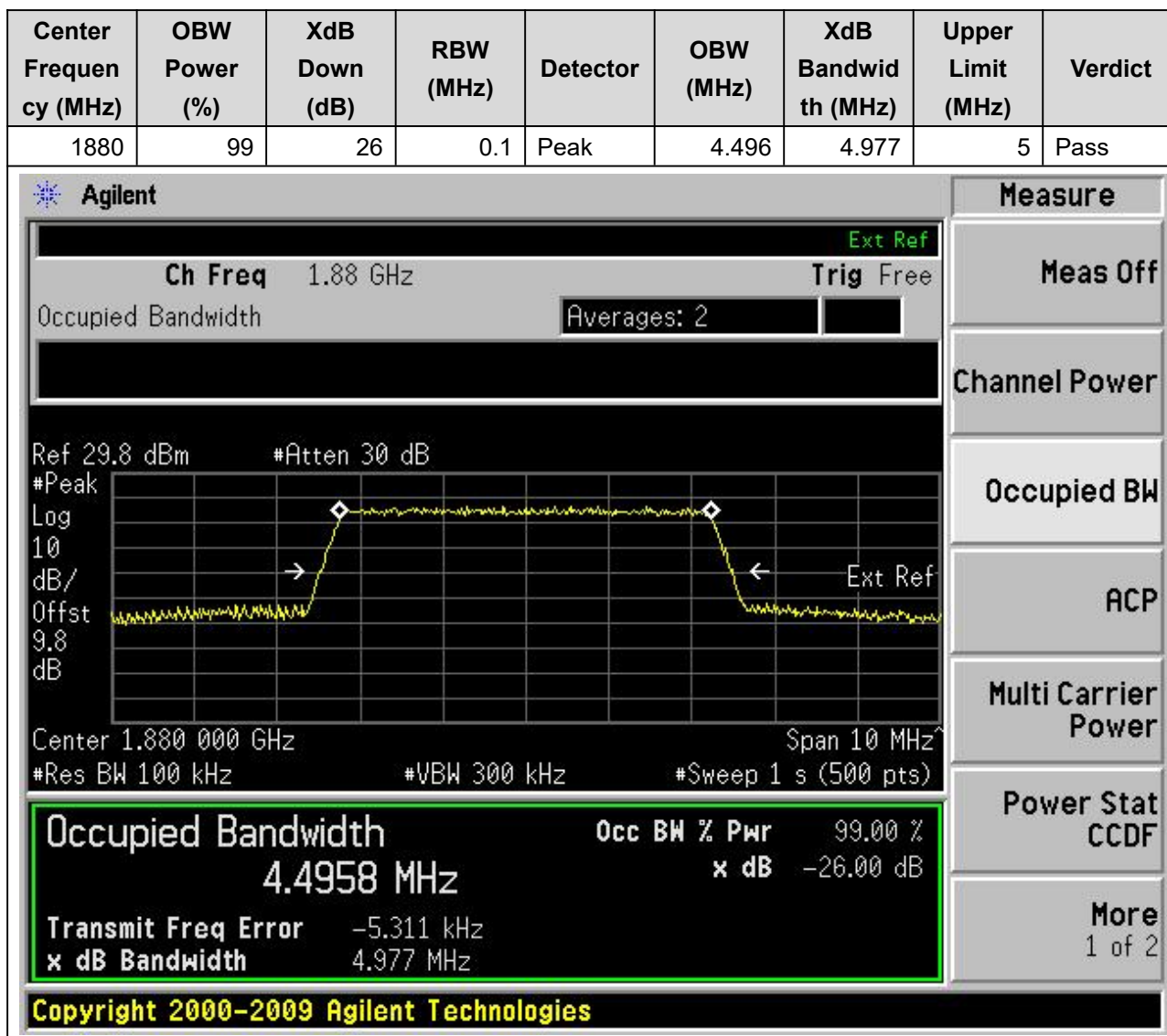
**9.9 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:9, Channel:18625, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



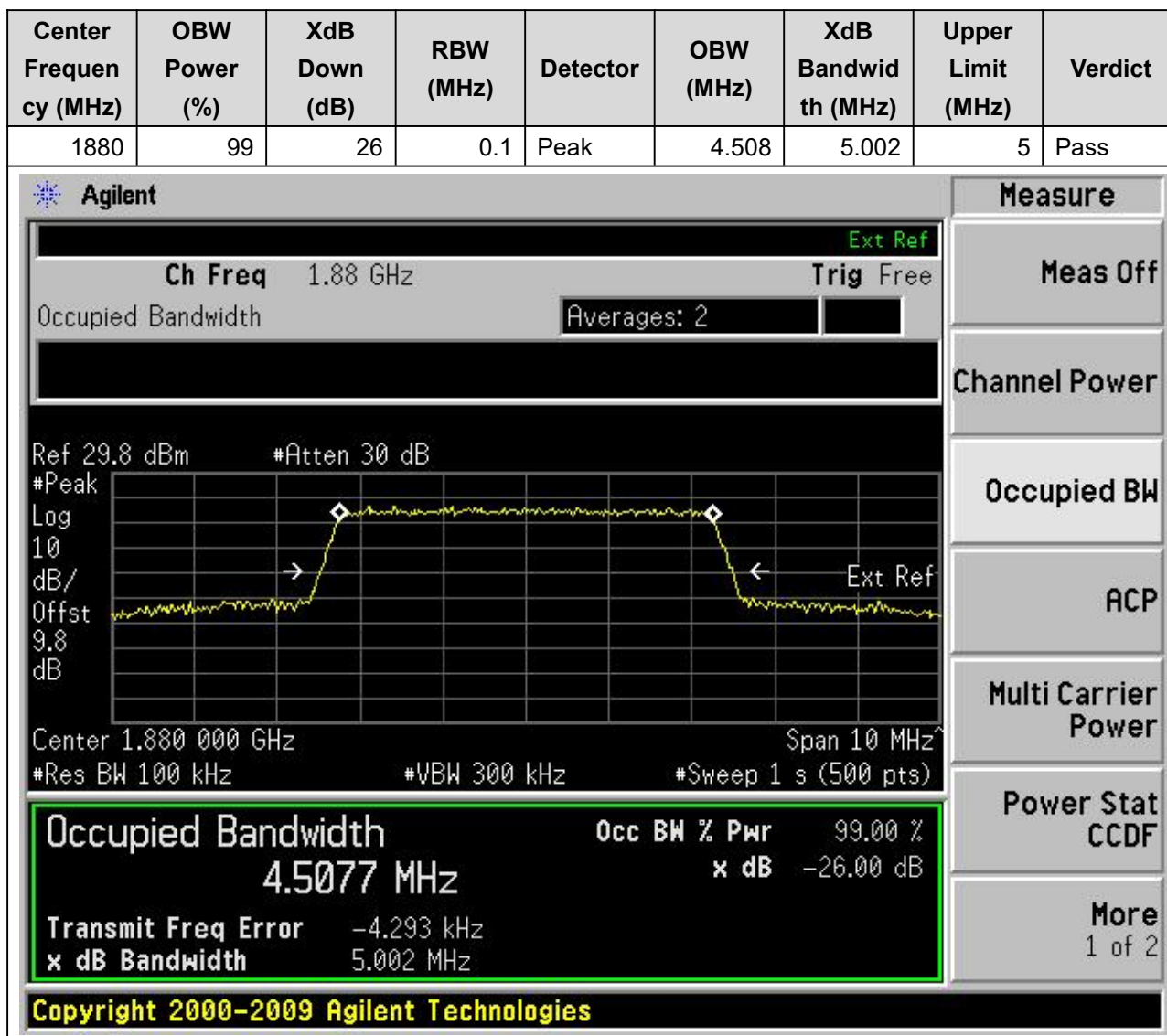
**9.10 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:10, Channel:18625, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



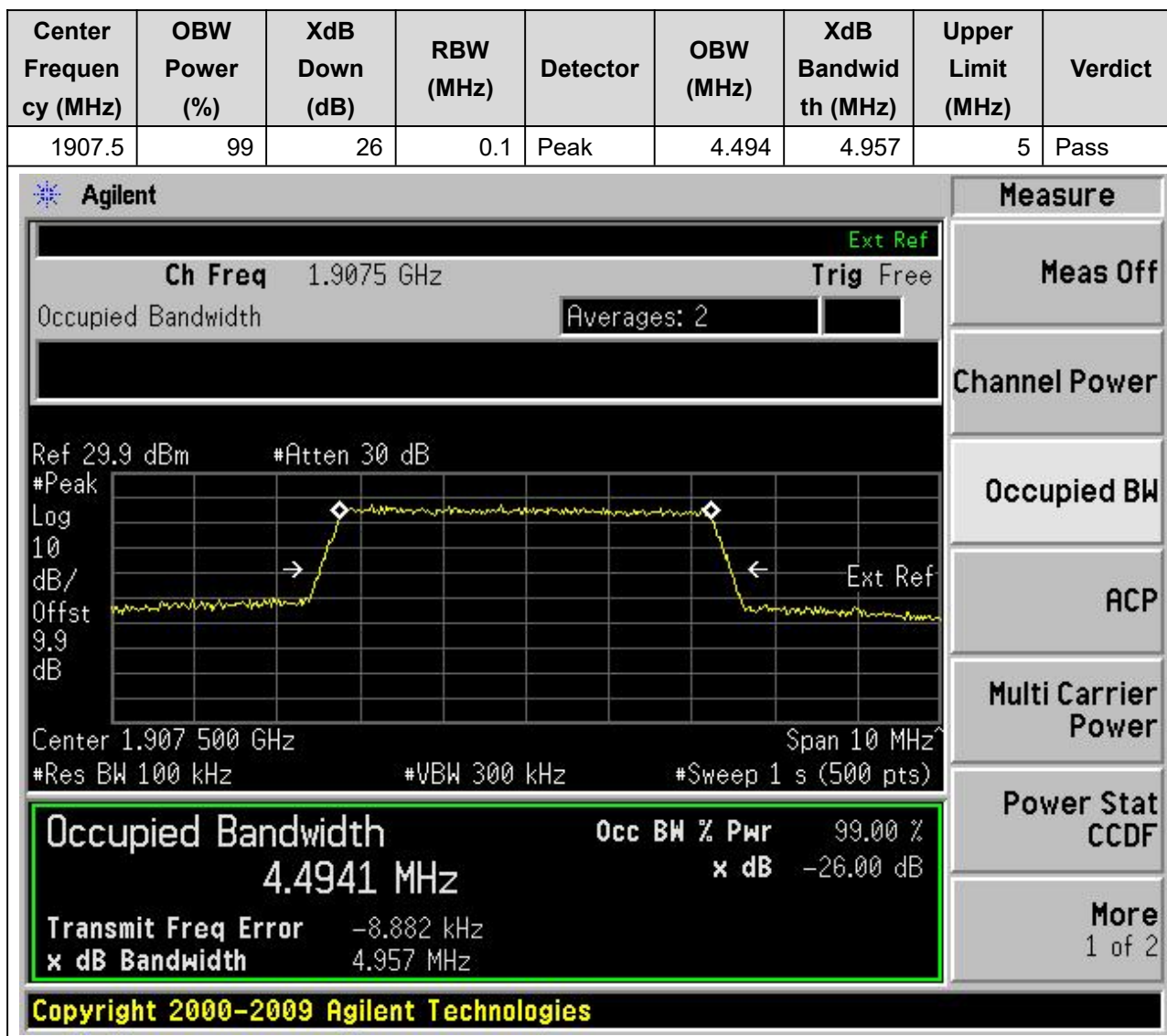
**9.11 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:11, Channel:18900, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



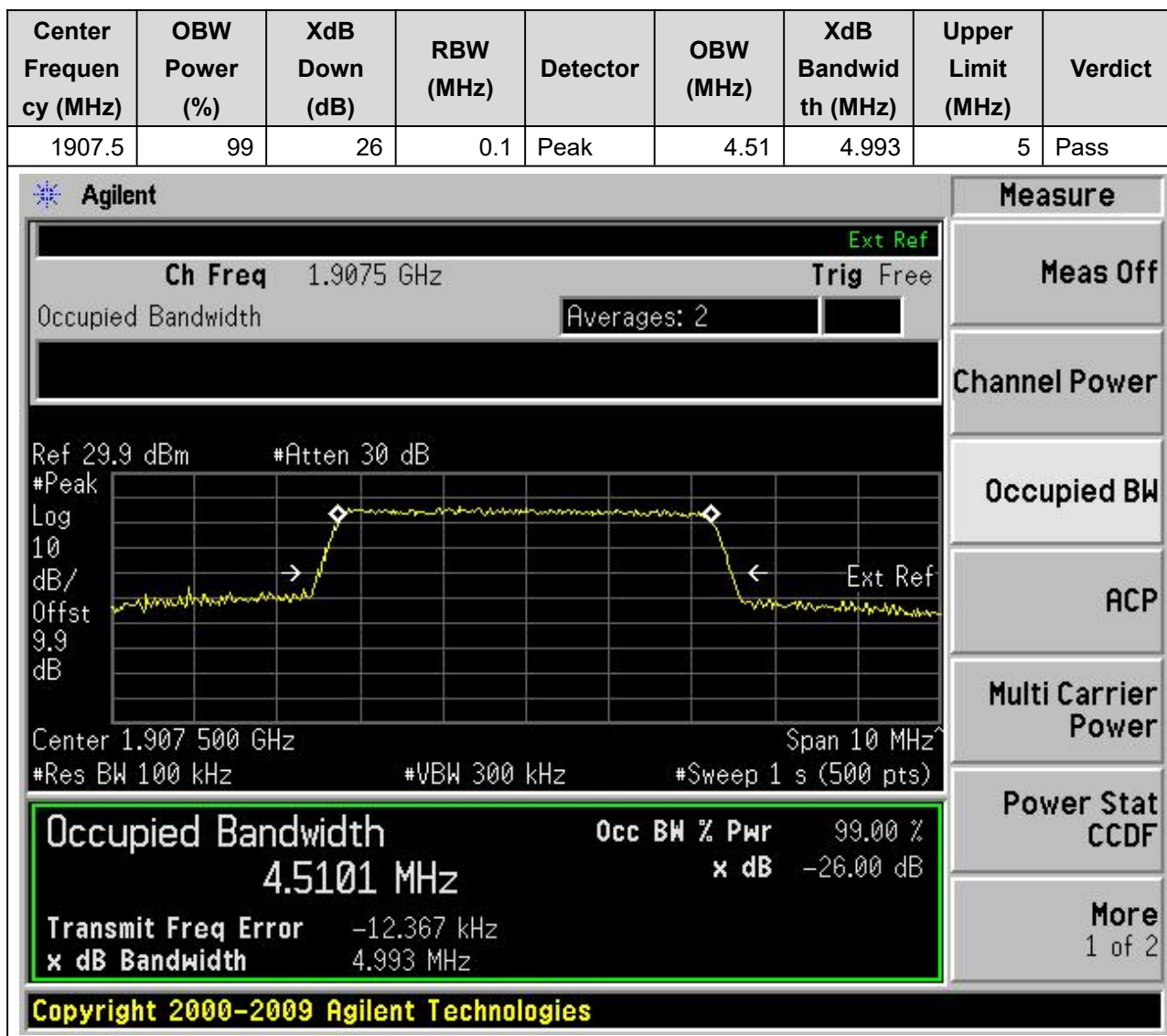
**9.12 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:12, Channel:18900, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



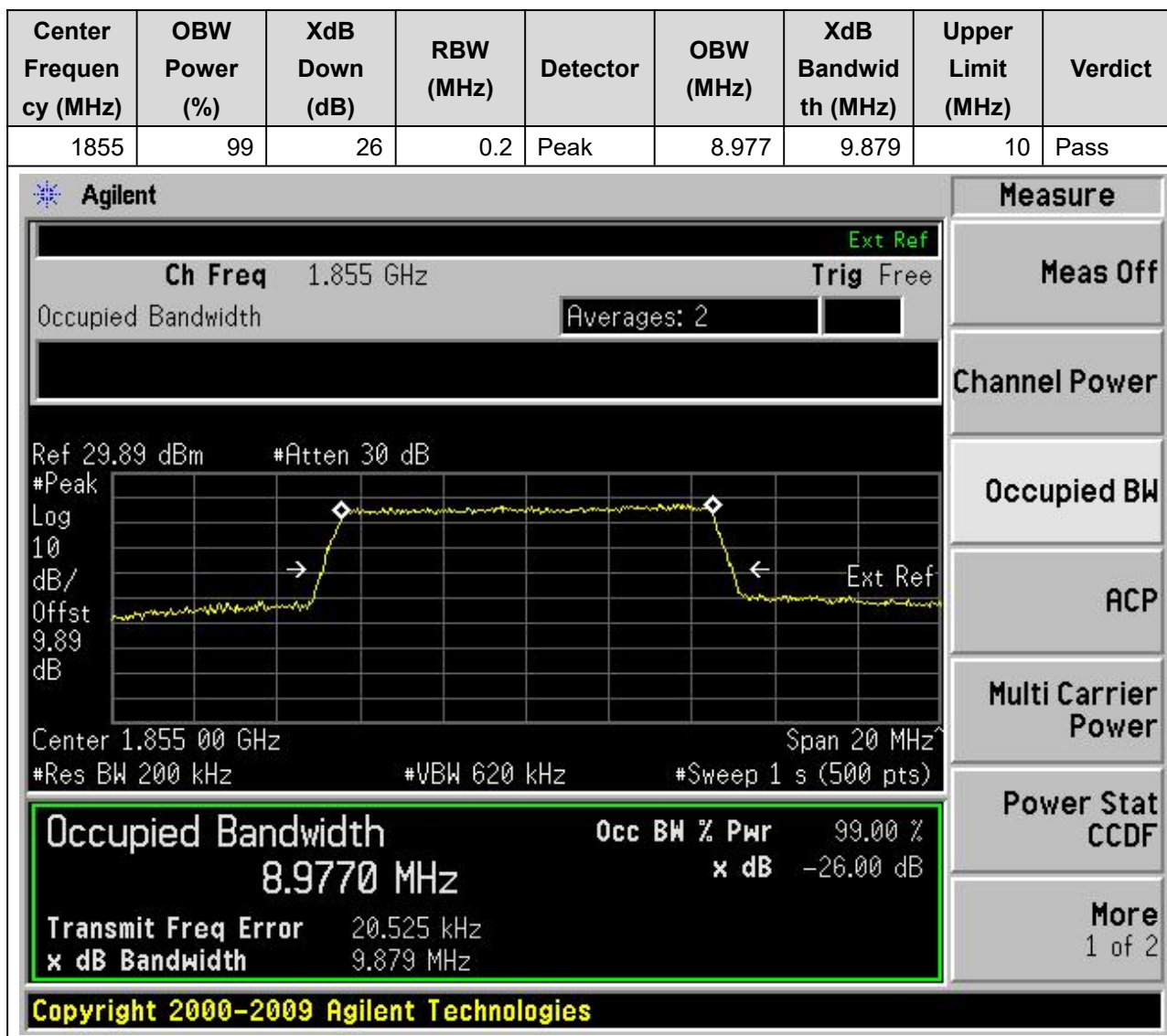
**9.13 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:13, Channel:19175, Bandwidth:5, Modulation:QPSK, RB Number: 25, RB Position:LOW)**



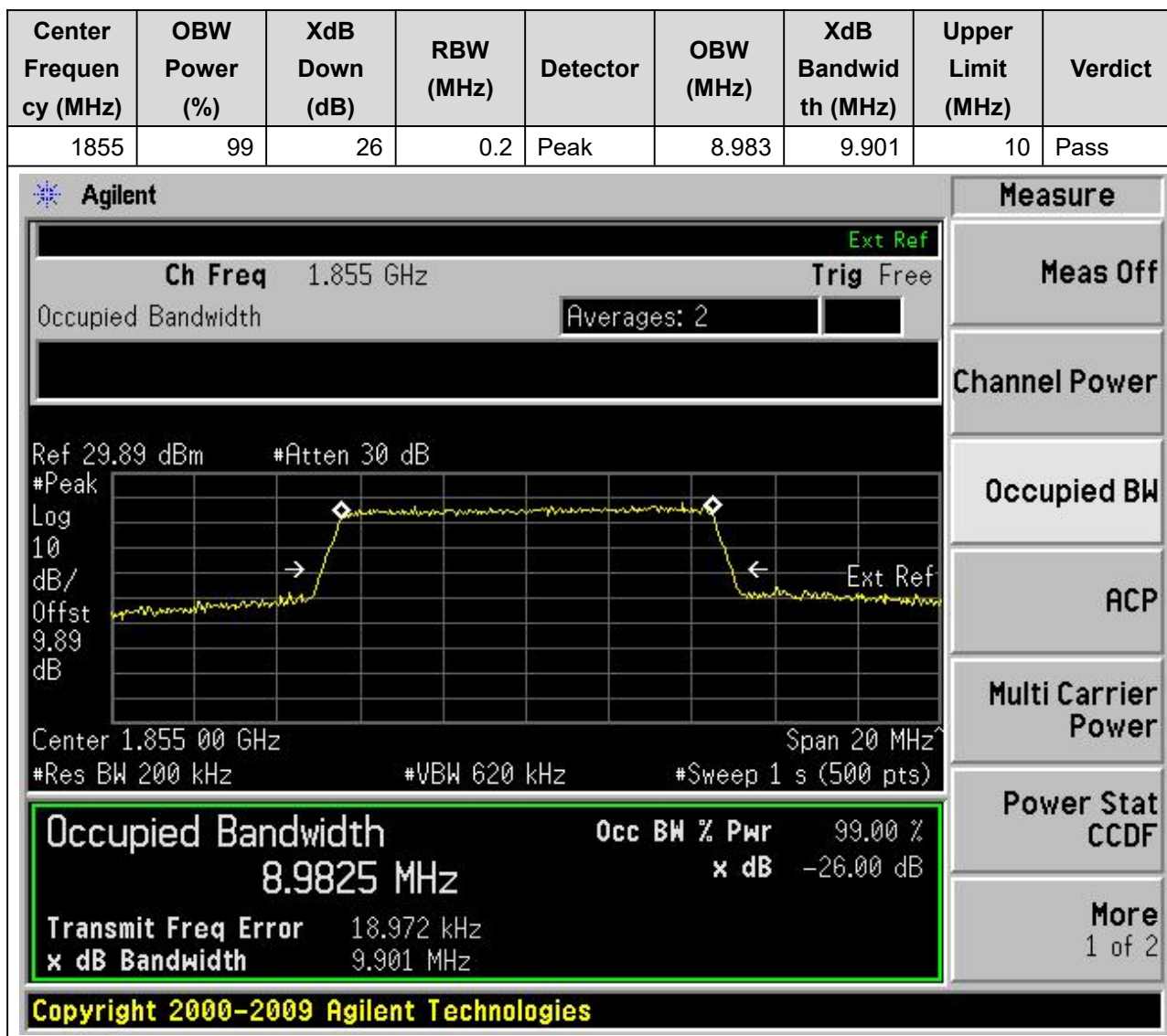
**9.14 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:14, Channel:19175, Bandwidth:5, Modulation:Q16, RB Number: 25, RB Position:LOW)**



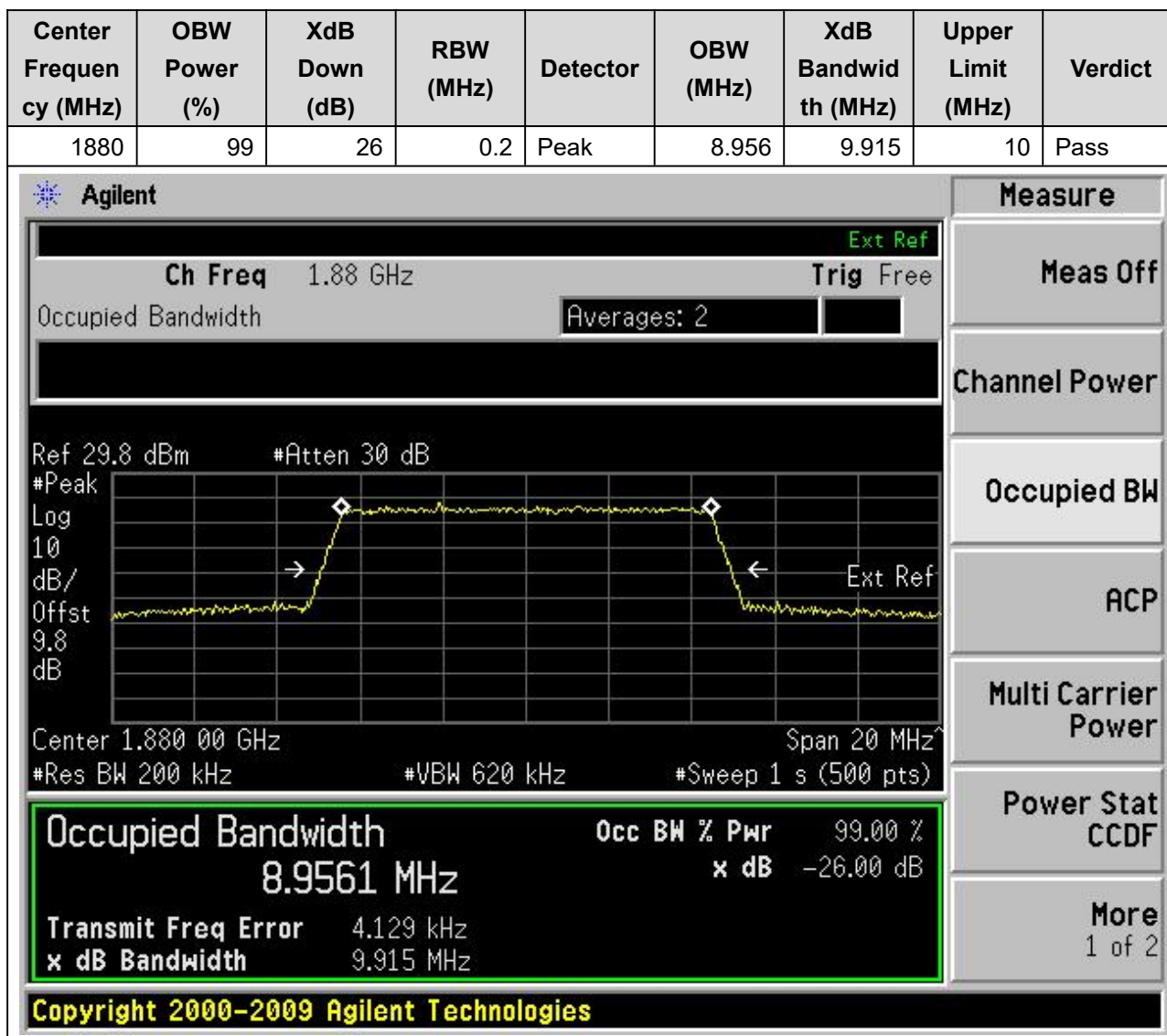
**9.15 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:15, Channel:18650, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



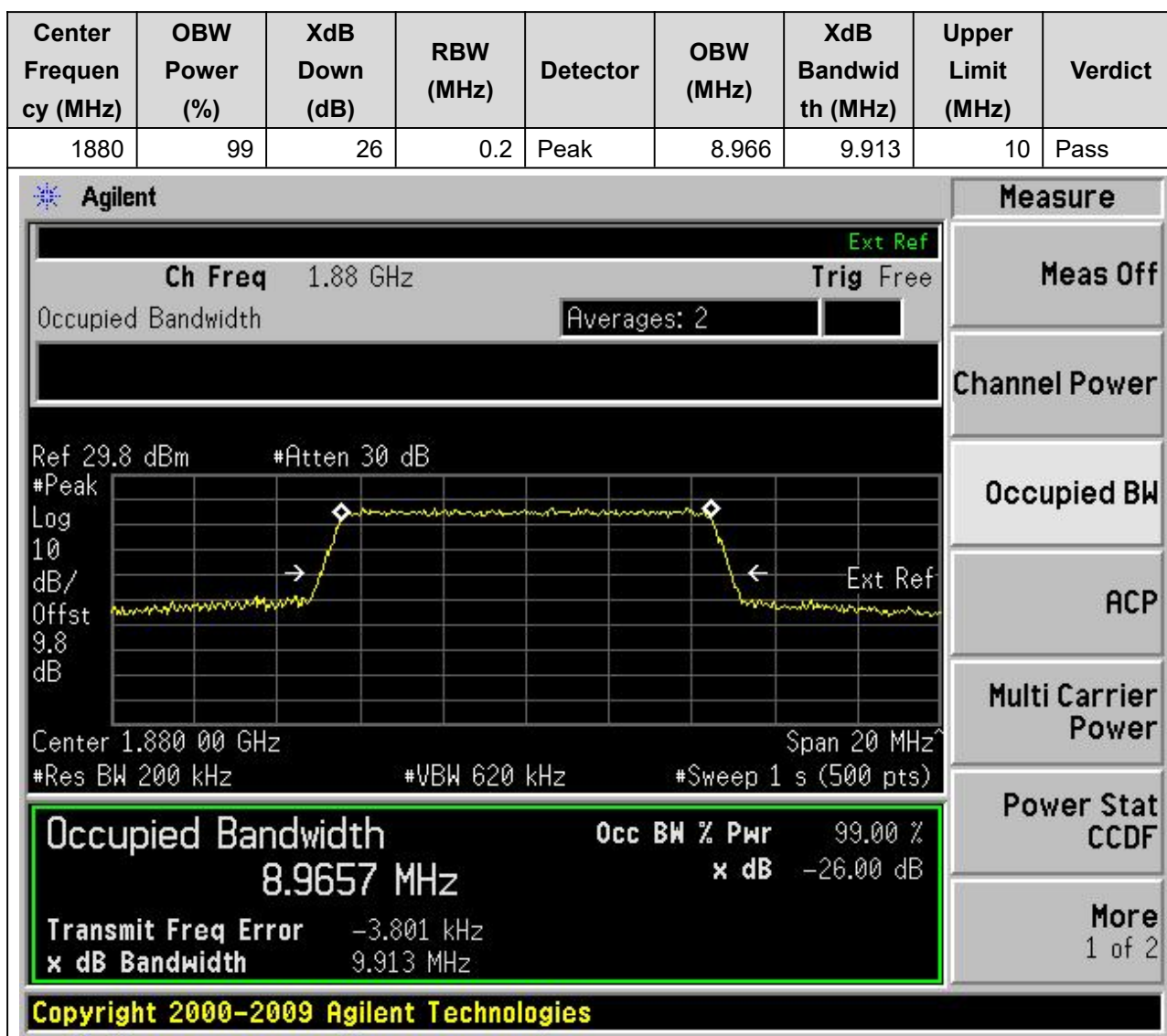
**9.16 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:16, Channel:18650, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



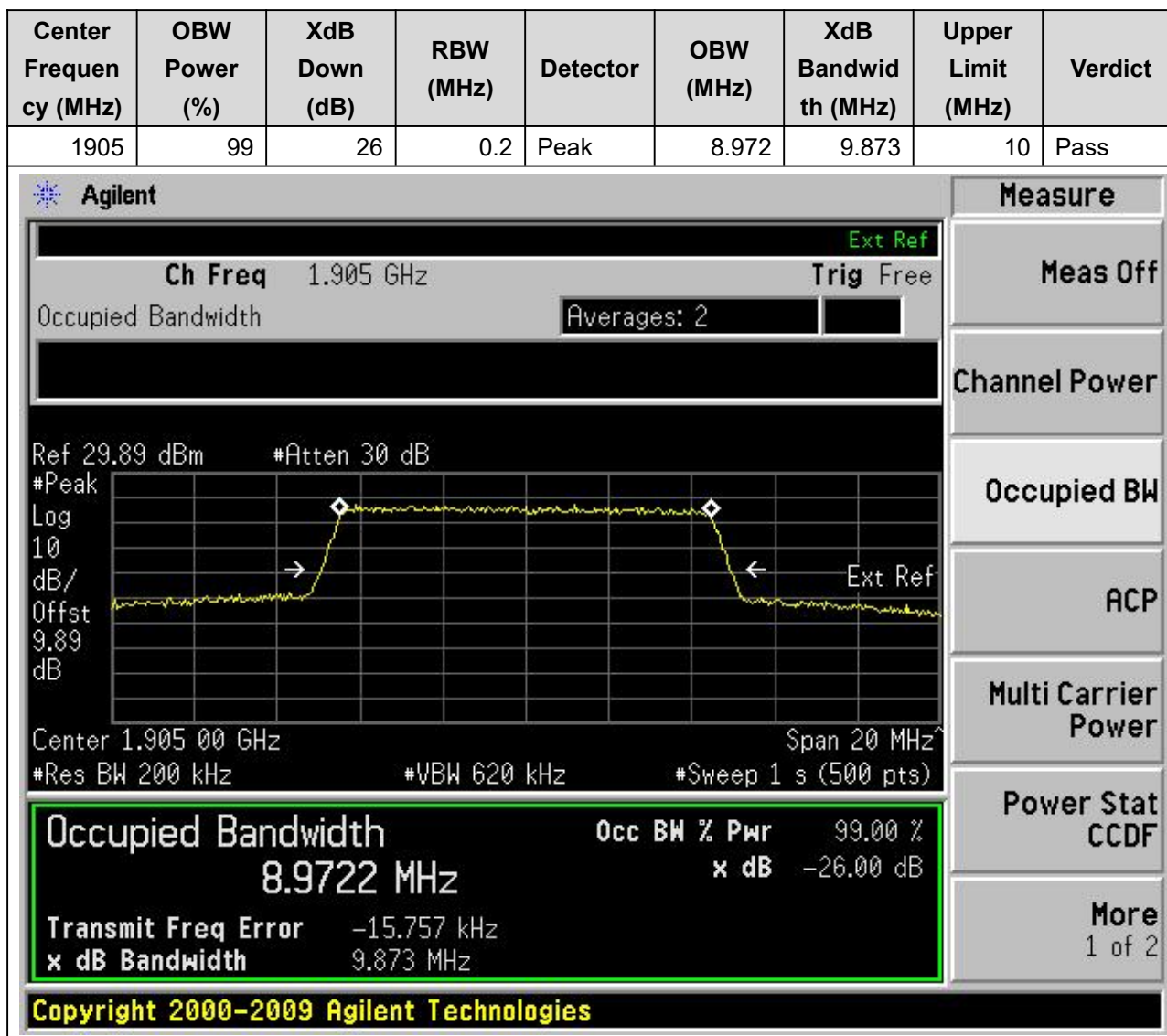
**9.17 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:17, Channel:18900, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



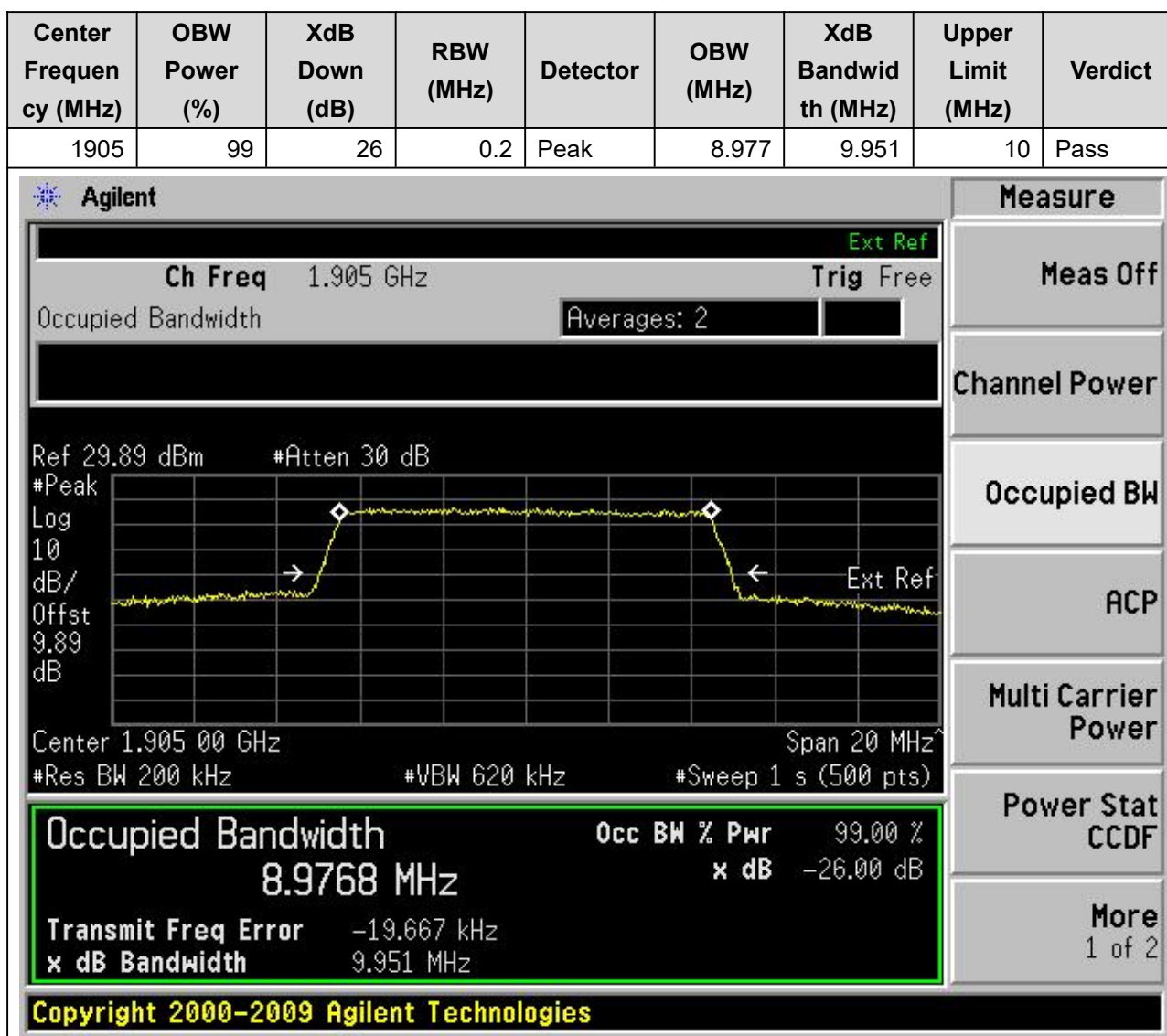
**9.18 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:18, Channel:18900, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



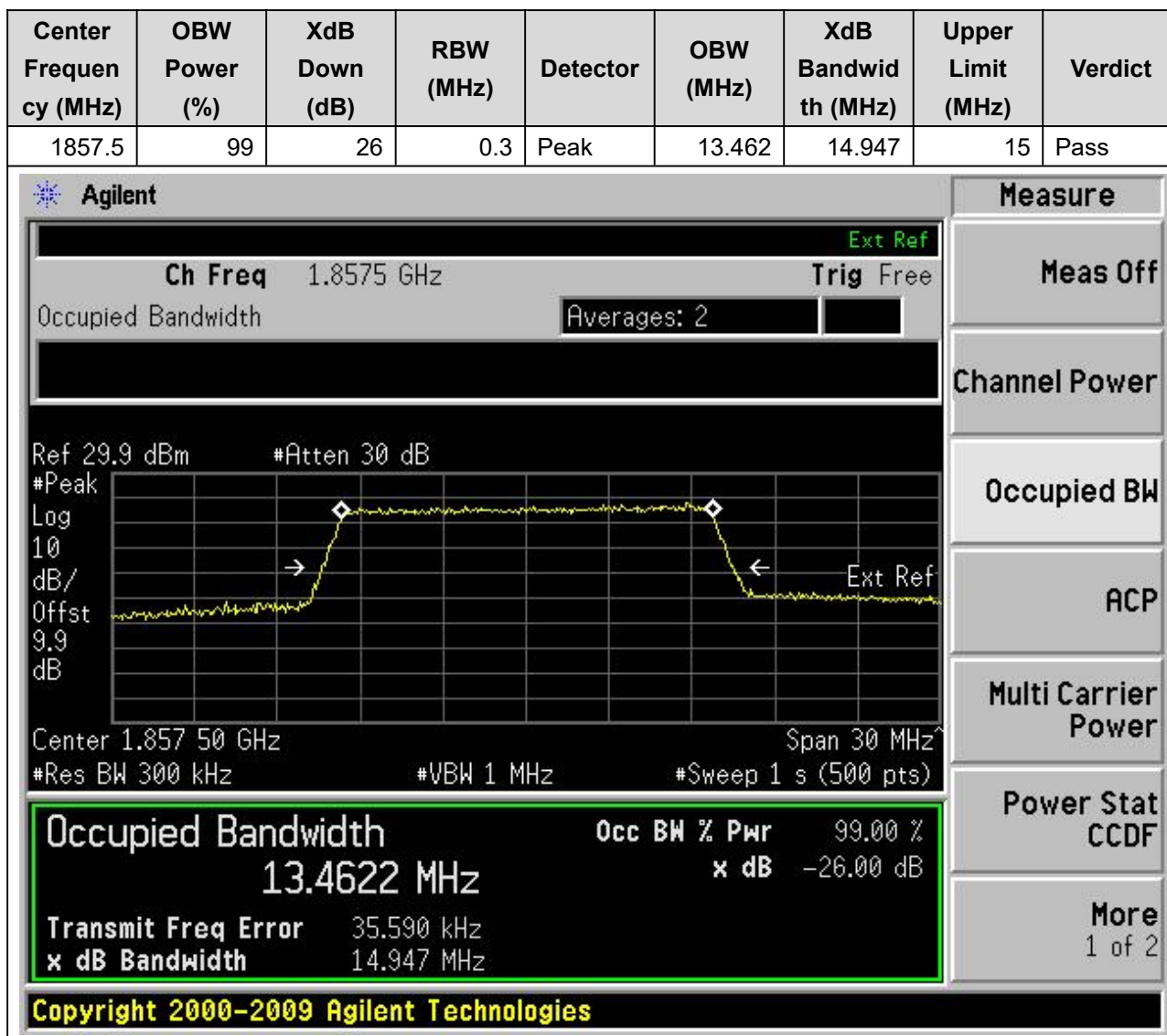
**9.19 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:19, Channel:19150, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)**



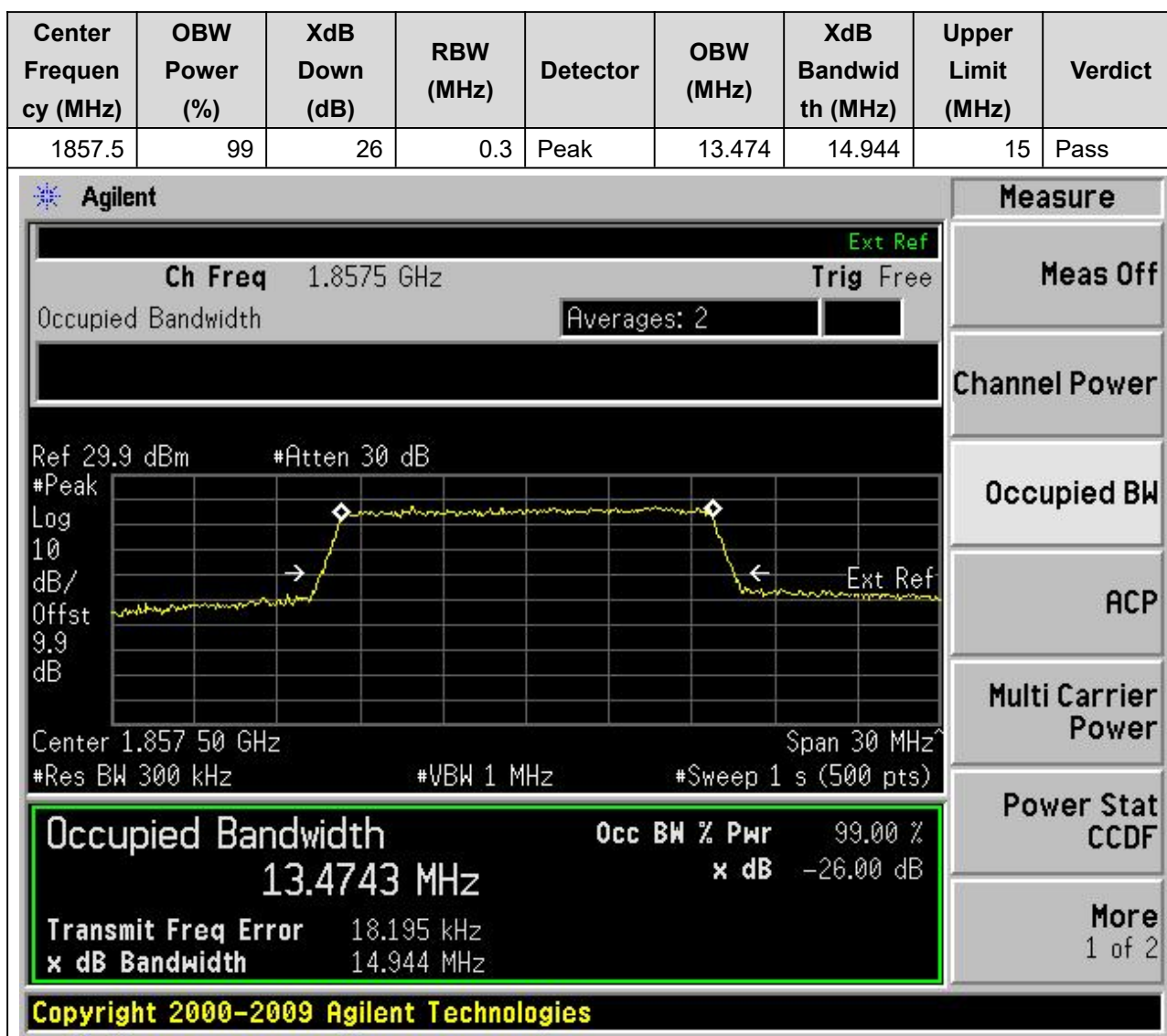
**9.20 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:20, Channel:19150, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)**



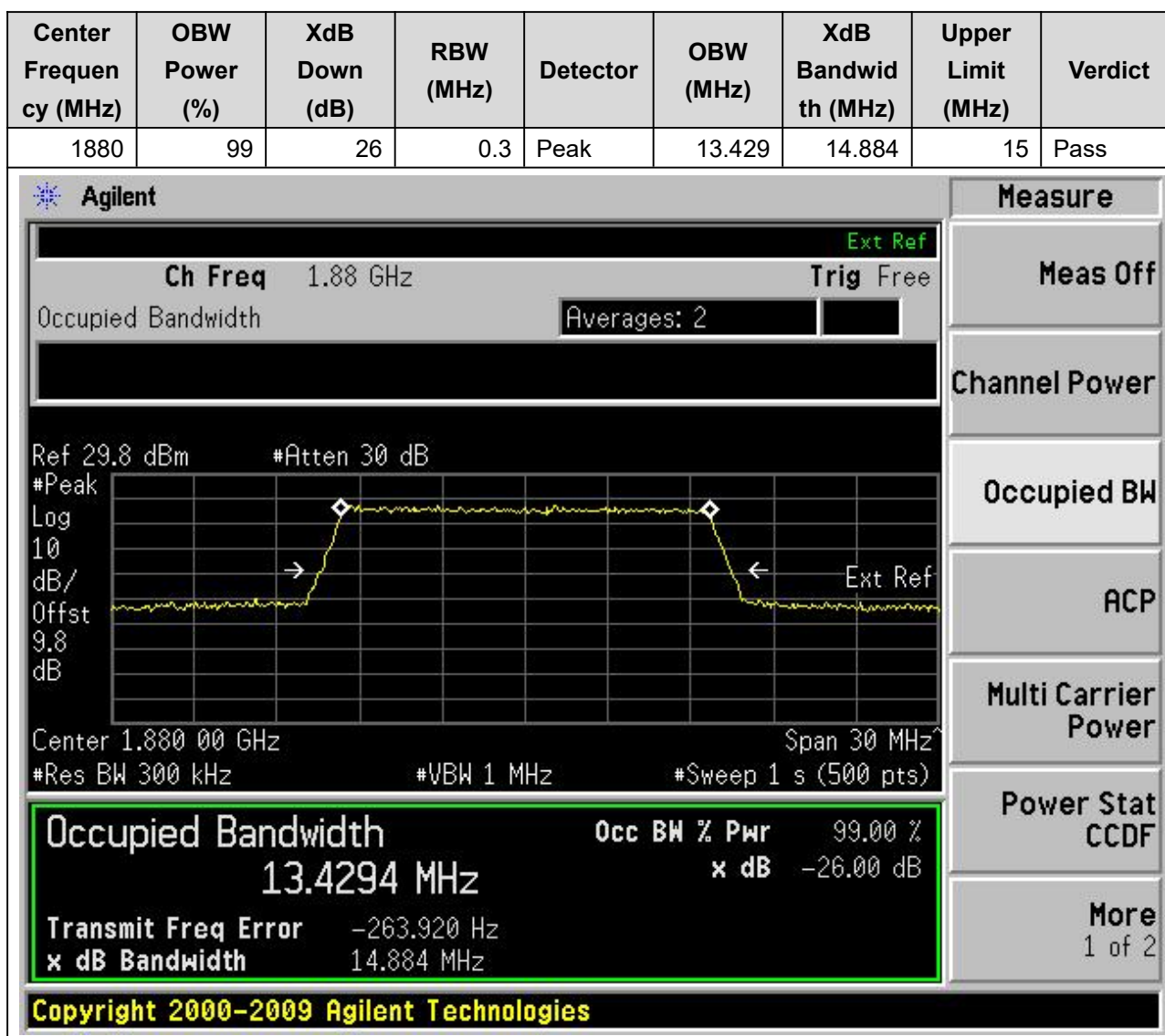
**9.21 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:21, Channel:18675, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



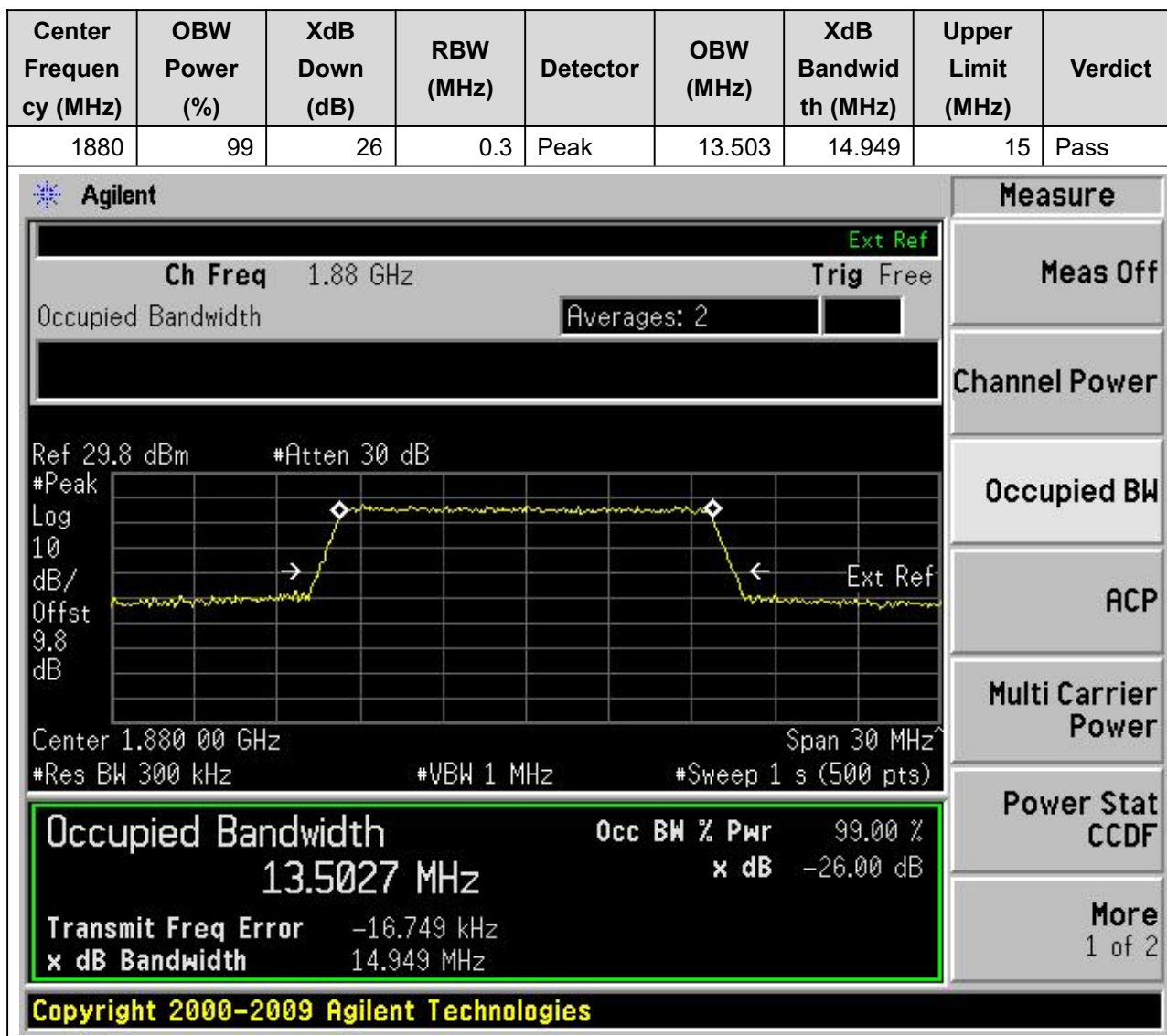
**9.22 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:22, Channel:18675, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



**9.23 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:23, Channel:18900, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**



**9.24 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:24, Channel:18900, Bandwidth:15, Modulation:Q16, RB Number: 75, RB Position:LOW)**



**9.25 LTE Occupied Bandwidth\_Part22-24-27(NTNV)(Subtest:25, Channel:19125, Bandwidth:15, Modulation:QPSK, RB Number: 75, RB Position:LOW)**

