



## Appendix G: Test Data for E-UTRA Band 25

**Product Name: 4G Module**

**Test Model: Air795U**

### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 23.8° C    |
| Relative Humidity: | 52.1%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Paddi Chen |
| Supervised by:     | Nick Peng  |



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## G.1 Conducted Output Power Data

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|---------|
| Band25 | 1.4MHz    | QPSK       | 26047   | 6RB#0            | 23.18       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 6RB#0            | 22.92       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26365   | 6RB#0            | 21.65       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26365   | 6RB#0            | 21.07       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 6RB#0            | 21.82       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 6RB#0            | 21.18       | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 15RB#0           | 21.47       | PASS    |
| Band25 | 3MHz      | 16QAM      | 26055   | 15RB#0           | 20.97       | PASS    |
| Band25 | 3MHz      | QPSK       | 26365   | 15RB#0           | 21.70       | PASS    |
| Band25 | 3MHz      | 16QAM      | 26365   | 15RB#0           | 21.24       | PASS    |
| Band25 | 3MHz      | QPSK       | 26675   | 15RB#0           | 21.86       | PASS    |
| Band25 | 3MHz      | 16QAM      | 26675   | 15RB#0           | 21.19       | PASS    |
| Band25 | 5MHz      | QPSK       | 26065   | 25RB#0           | 21.42       | PASS    |
| Band25 | 5MHz      | 16QAM      | 26065   | 25RB#0           | 20.92       | PASS    |
| Band25 | 5MHz      | QPSK       | 26365   | 25RB#0           | 21.73       | PASS    |
| Band25 | 5MHz      | 16QAM      | 26365   | 25RB#0           | 21.24       | PASS    |
| Band25 | 5MHz      | QPSK       | 26665   | 25RB#0           | 21.89       | PASS    |
| Band25 | 5MHz      | 16QAM      | 26665   | 25RB#0           | 21.23       | PASS    |
| Band25 | 10MHz     | QPSK       | 26090   | 50RB#0           | 21.53       | PASS    |
| Band25 | 10MHz     | 16QAM      | 26090   | 50RB#0           | 21.02       | PASS    |
| Band25 | 10MHz     | QPSK       | 26365   | 50RB#0           | 21.89       | PASS    |
| Band25 | 10MHz     | 16QAM      | 26365   | 50RB#0           | 21.44       | PASS    |
| Band25 | 10MHz     | QPSK       | 26640   | 50RB#0           | 21.87       | PASS    |
| Band25 | 10MHz     | 16QAM      | 26640   | 50RB#0           | 21.20       | PASS    |
| Band25 | 15MHz     | QPSK       | 26115   | 75RB#0           | 21.48       | PASS    |
| Band25 | 15MHz     | 16QAM      | 26115   | 75RB#0           | 21.04       | PASS    |
| Band25 | 15MHz     | QPSK       | 26365   | 75RB#0           | 21.68       | PASS    |
| Band25 | 15MHz     | 16QAM      | 26365   | 75RB#0           | 21.18       | PASS    |
| Band25 | 15MHz     | QPSK       | 26615   | 75RB#0           | 21.89       | PASS    |
| Band25 | 15MHz     | 16QAM      | 26615   | 75RB#0           | 21.05       | PASS    |
| Band25 | 20MHz     | QPSK       | 26140   | 100RB#0          | 21.49       | PASS    |
| Band25 | 20MHz     | 16QAM      | 26140   | 100RB#0          | 20.99       | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0          | 21.71       | PASS    |
| Band25 | 20MHz     | 16QAM      | 26365   | 100RB#0          | 21.13       | PASS    |
| Band25 | 20MHz     | QPSK       | 26590   | 100RB#0          | 21.84       | PASS    |
| Band25 | 20MHz     | 16QAM      | 26590   | 100RB#0          | 21.16       | PASS    |



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## G.2 Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band25 | 3MHz      | QPSK       | 26675   | 15RB#0           | 4.65       | 13        | PASS    |
| Band25 | 3MHz      | 16QAM      | 26675   | 15RB#0           | 5.36       | 13        | PASS    |
| Band25 | 5MHz      | QPSK       | 26065   | 25RB#0           | 5.15       | 13        | PASS    |
| Band25 | 5MHz      | 16QAM      | 26065   | 25RB#0           | 5.74       | 13        | PASS    |
| Band25 | 5MHz      | QPSK       | 26365   | 25RB#0           | 5.06       | 13        | PASS    |
| Band25 | 5MHz      | 16QAM      | 26365   | 25RB#0           | 5.62       | 13        | PASS    |
| Band25 | 5MHz      | QPSK       | 26665   | 25RB#0           | 4.98       | 13        | PASS    |
| Band25 | 5MHz      | 16QAM      | 26665   | 25RB#0           | 5.59       | 13        | PASS    |
| Band25 | 10MHz     | QPSK       | 26090   | 50RB#0           | 5.26       | 13        | PASS    |
| Band25 | 10MHz     | 16QAM      | 26090   | 50RB#0           | 5.83       | 13        | PASS    |
| Band25 | 10MHz     | QPSK       | 26365   | 50RB#0           | 5.05       | 13        | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0          | 5.10       | 13        | PASS    |
| Band25 | 20MHz     | 16QAM      | 26365   | 100RB#0          | 5.69       | 13        | PASS    |
| Band25 | 20MHz     | QPSK       | 26590   | 100RB#0          | 5.04       | 13        | PASS    |
| Band25 | 20MHz     | 16QAM      | 26590   | 100RB#0          | 5.68       | 13        | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 6RB#0            | 5.44       | 13        | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26047   | 6RB#0            | 5.30       | 13        | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 6RB#0            | 5.71       | 13        | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26365   | 6RB#0            | 5.05       | 13        | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26365   | 6RB#0            | 5.62       | 13        | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 6RB#0            | 4.78       | 13        | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 15RB#0           | 4.91       | 13        | PASS    |
| Band25 | 3MHz      | 16QAM      | 26055   | 15RB#0           | 5.54       | 13        | PASS    |
| Band25 | 3MHz      | QPSK       | 26365   | 15RB#0           | 4.79       | 13        | PASS    |
| Band25 | 3MHz      | 16QAM      | 26365   | 15RB#0           | 5.42       | 13        | PASS    |
| Band25 | 10MHz     | 16QAM      | 26365   | 50RB#0           | 5.64       | 13        | PASS    |
| Band25 | 10MHz     | QPSK       | 26640   | 50RB#0           | 5.01       | 13        | PASS    |
| Band25 | 10MHz     | 16QAM      | 26640   | 50RB#0           | 5.65       | 13        | PASS    |
| Band25 | 15MHz     | QPSK       | 26115   | 75RB#0           | 5.55       | 13        | PASS    |
| Band25 | 15MHz     | 16QAM      | 26115   | 75RB#0           | 5.94       | 13        | PASS    |
| Band25 | 15MHz     | QPSK       | 26365   | 75RB#0           | 5.33       | 13        | PASS    |
| Band25 | 15MHz     | 16QAM      | 26365   | 75RB#0           | 5.73       | 13        | PASS    |
| Band25 | 15MHz     | QPSK       | 26615   | 75RB#0           | 5.26       | 13        | PASS    |
| Band25 | 15MHz     | 16QAM      | 26615   | 75RB#0           | 5.74       | 13        | PASS    |
| Band25 | 20MHz     | QPSK       | 26140   | 100RB#0          | 5.26       | 13        | PASS    |
| Band25 | 20MHz     | 16QAM      | 26140   | 100RB#0          | 5.81       | 13        | PASS    |



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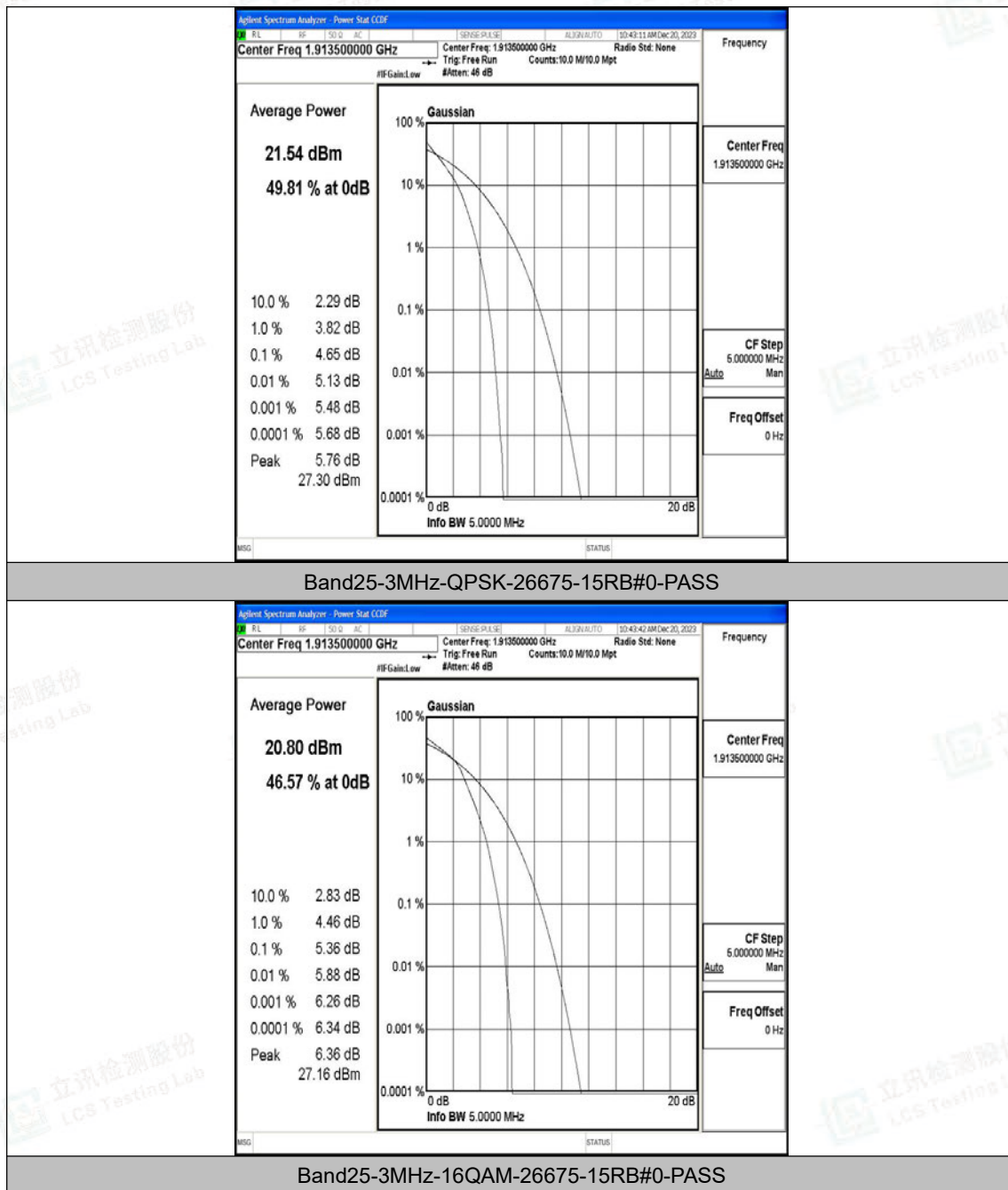
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## Test Graphs

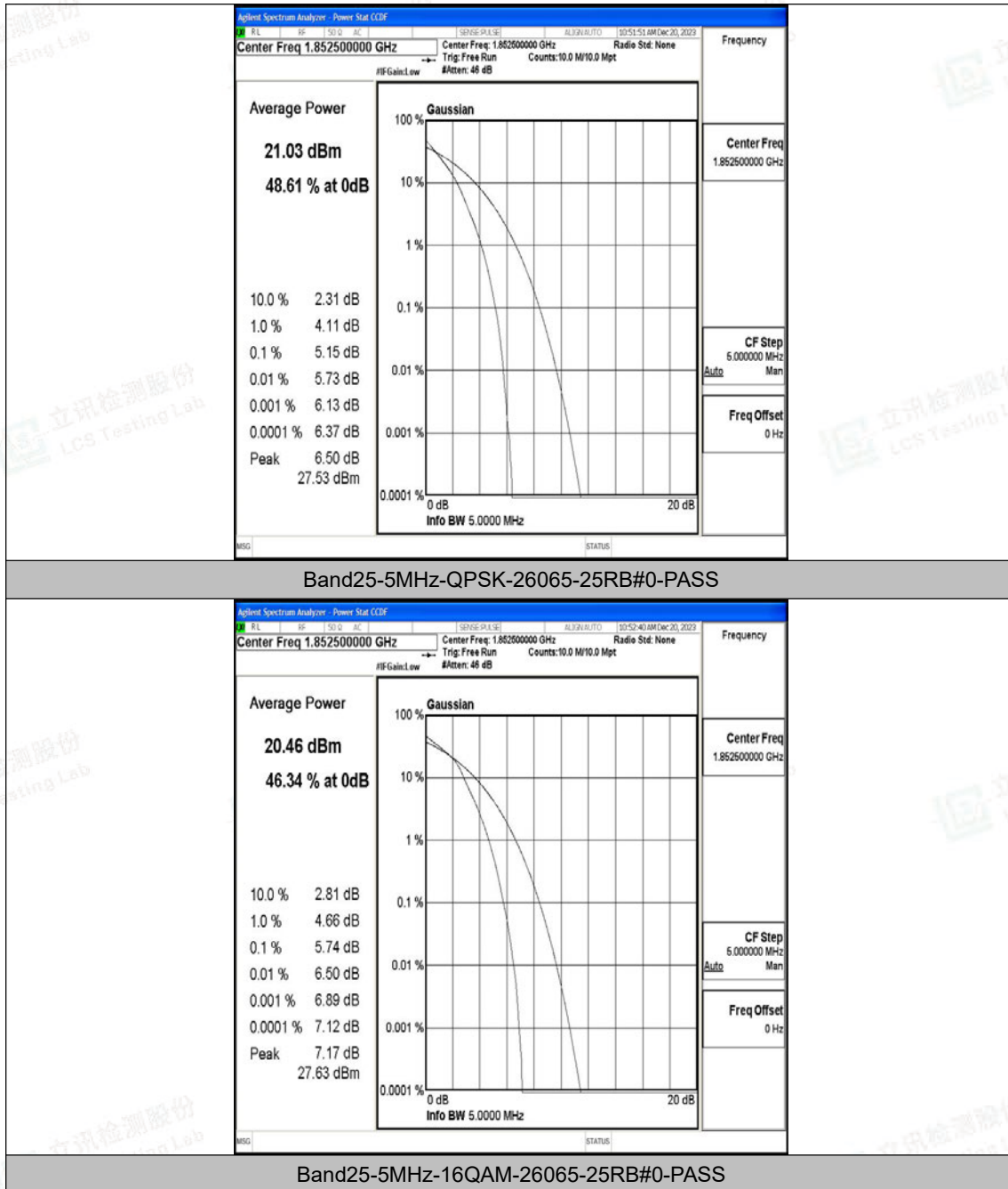


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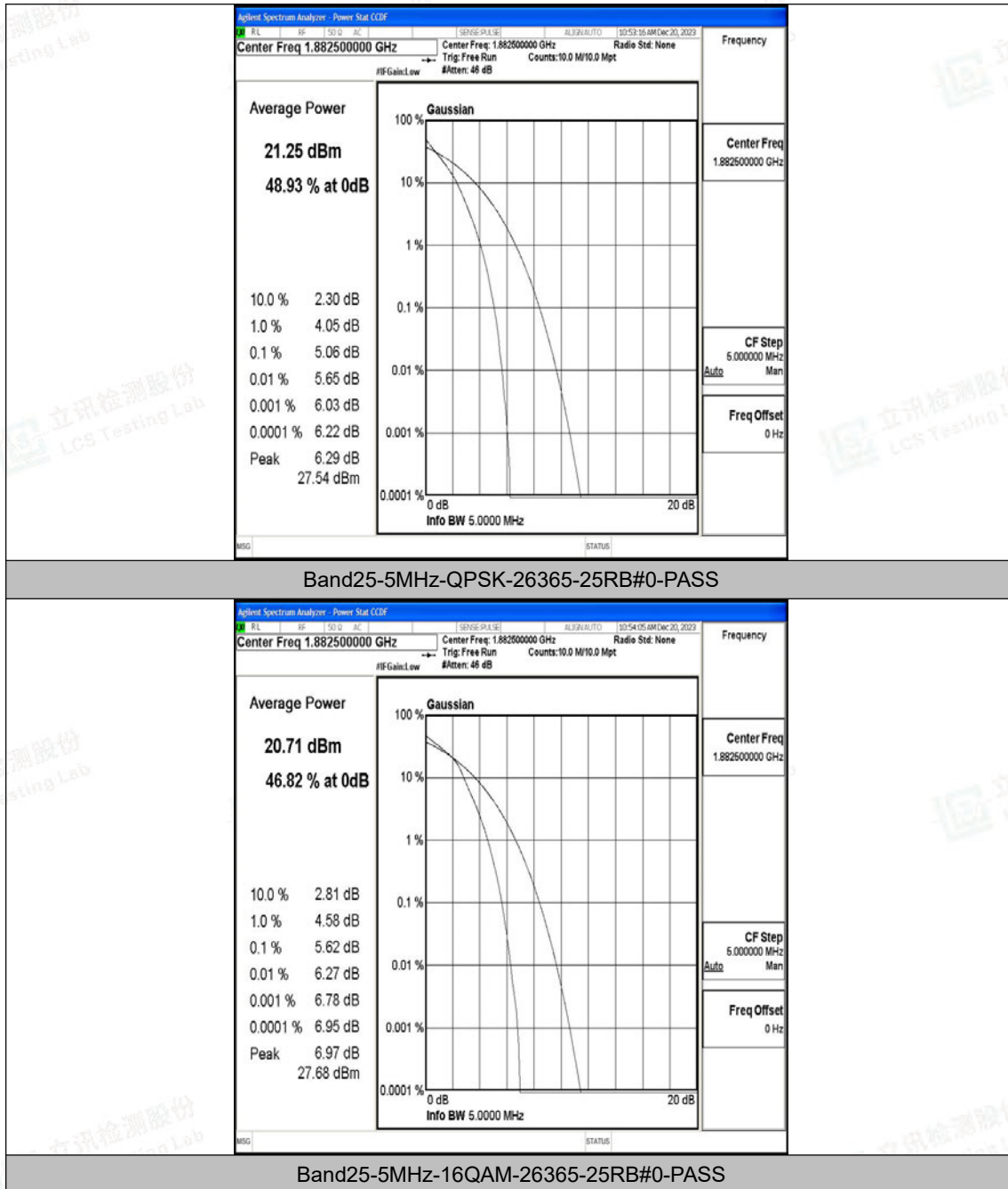


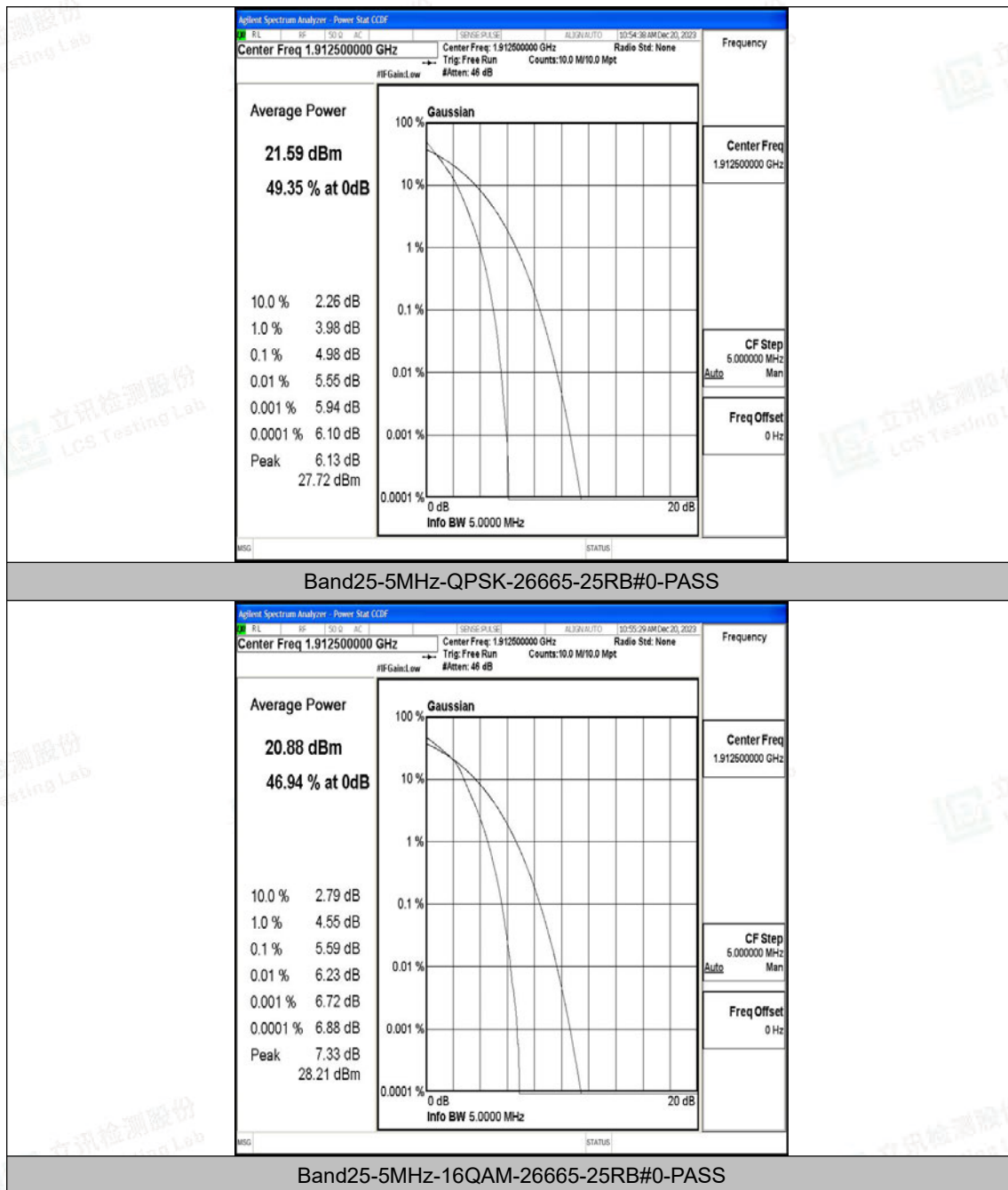
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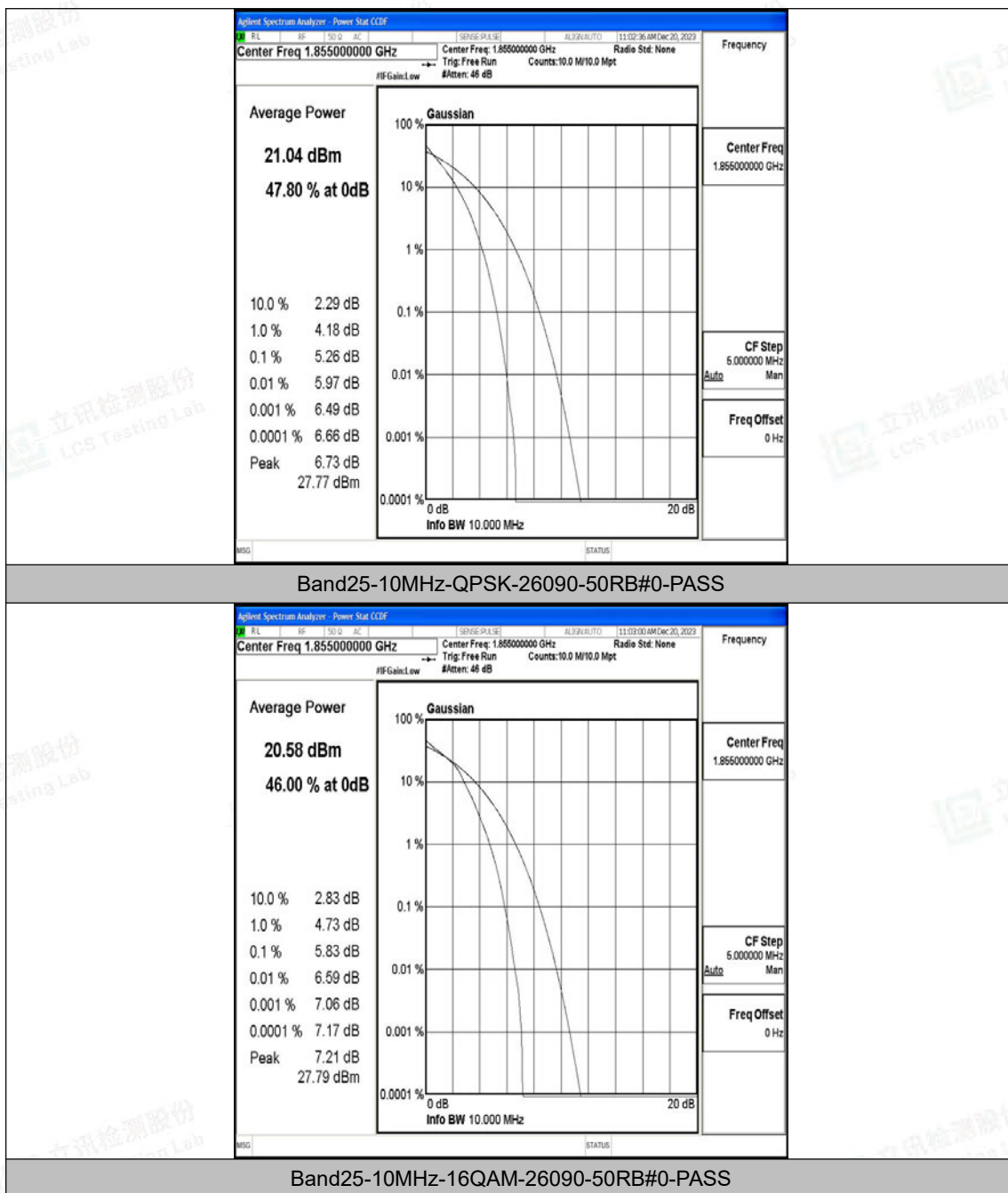
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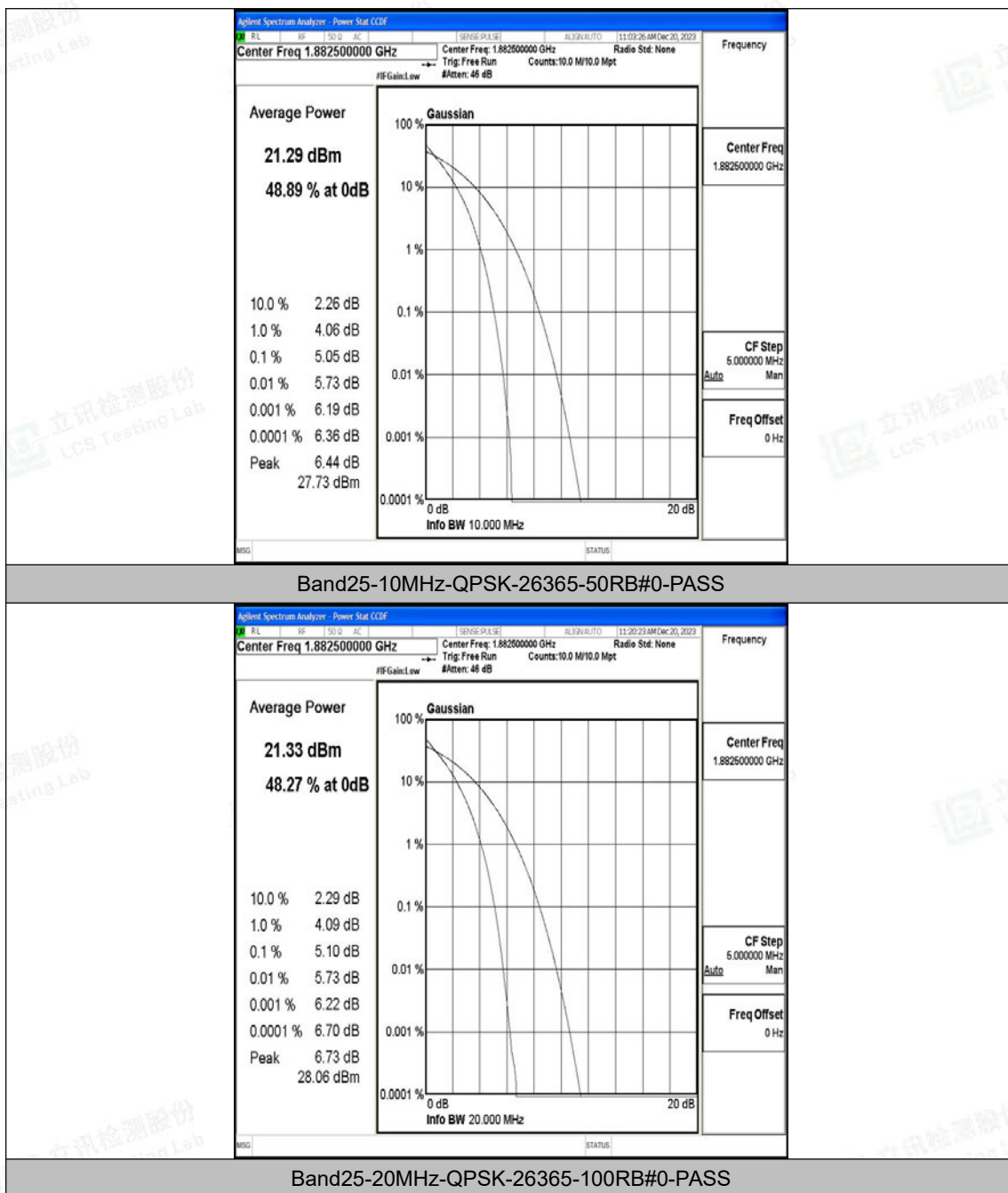


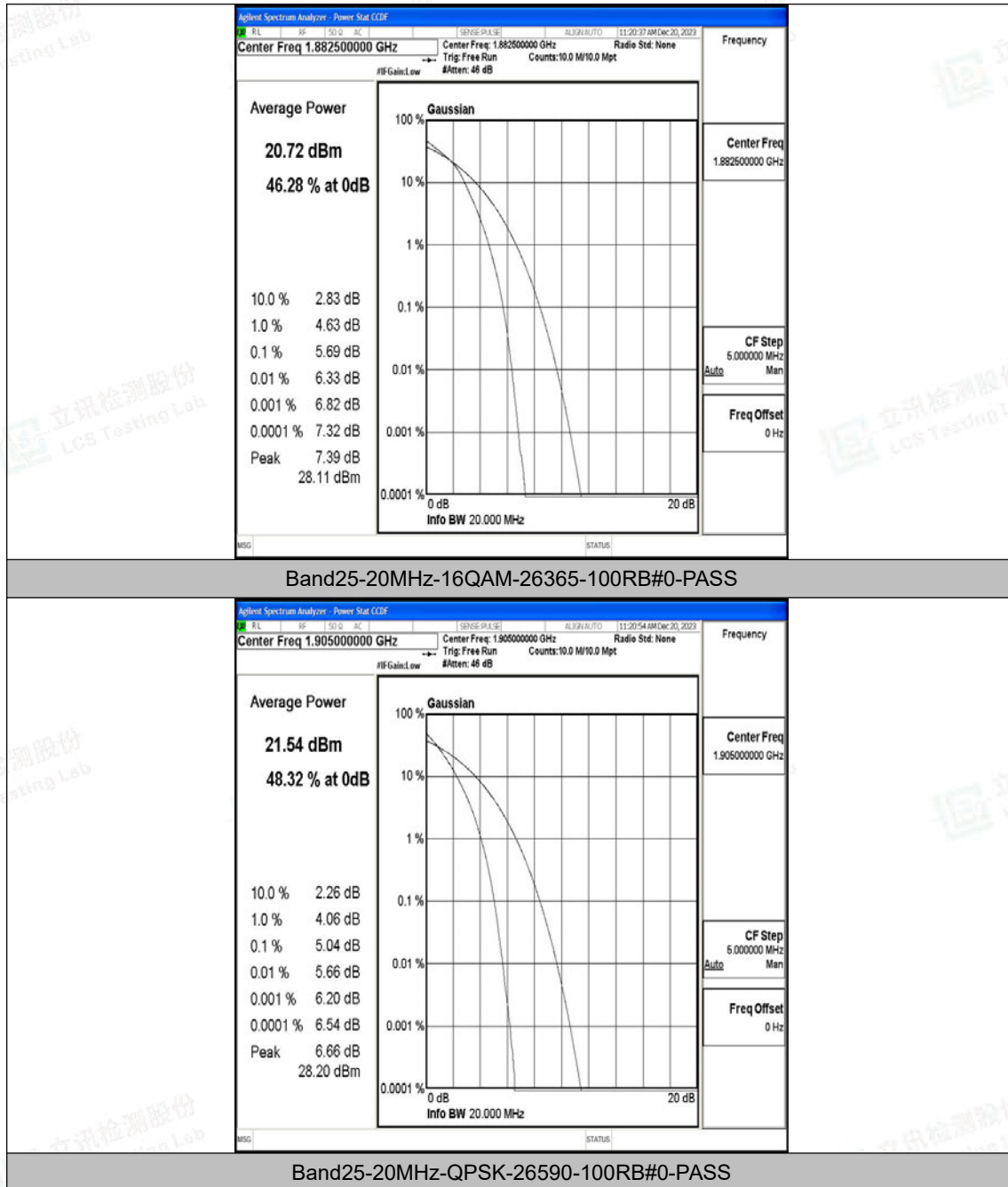
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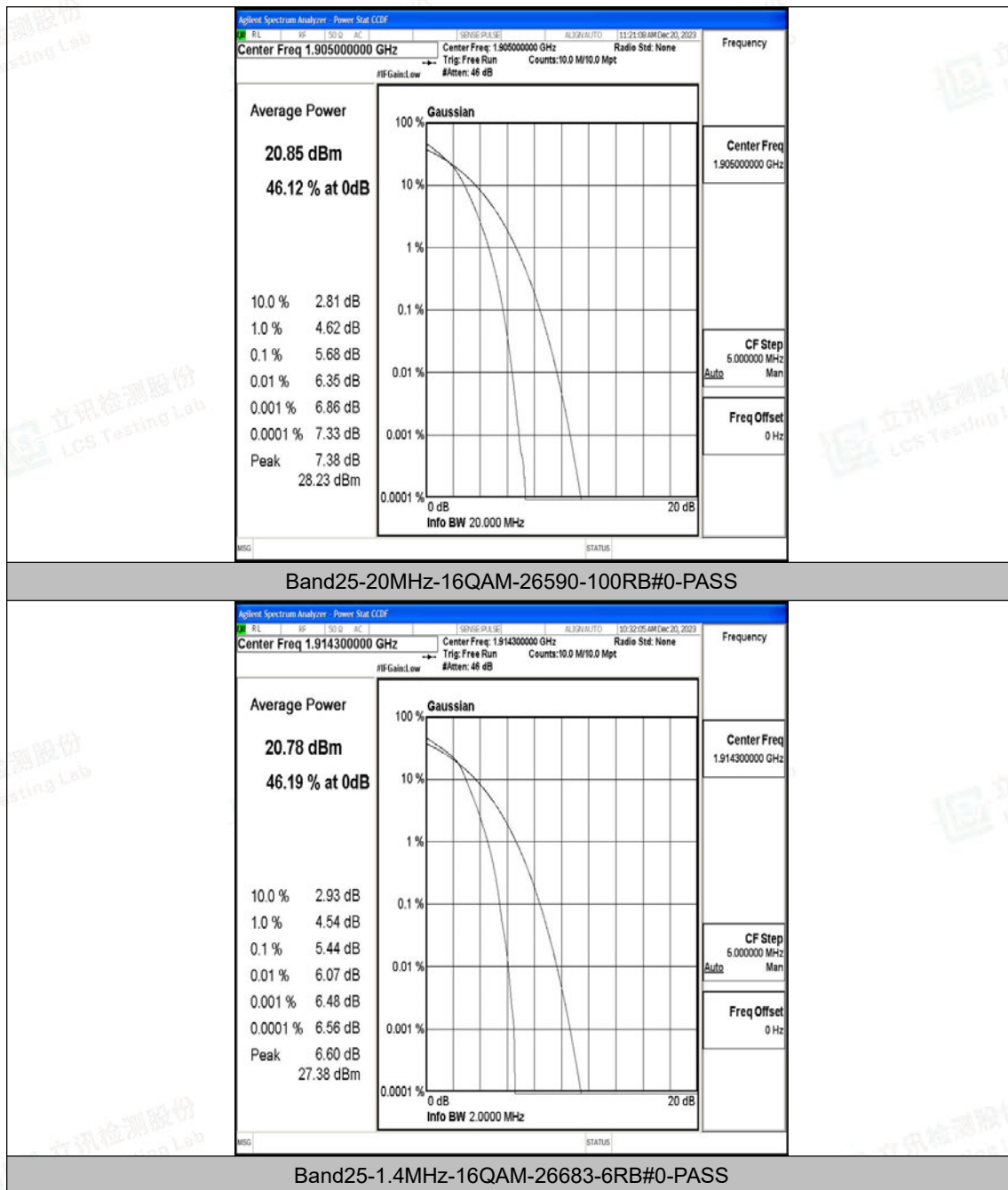


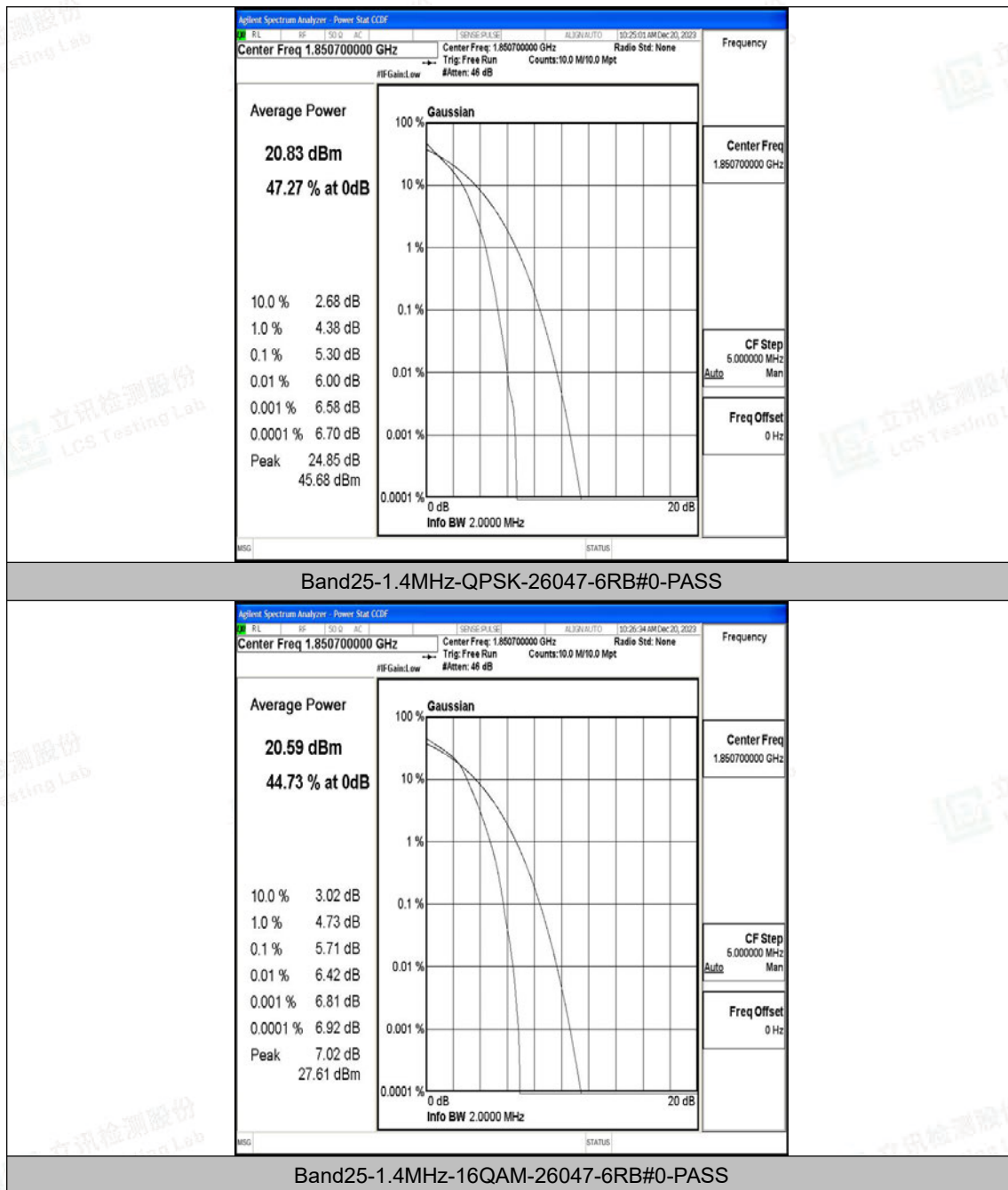
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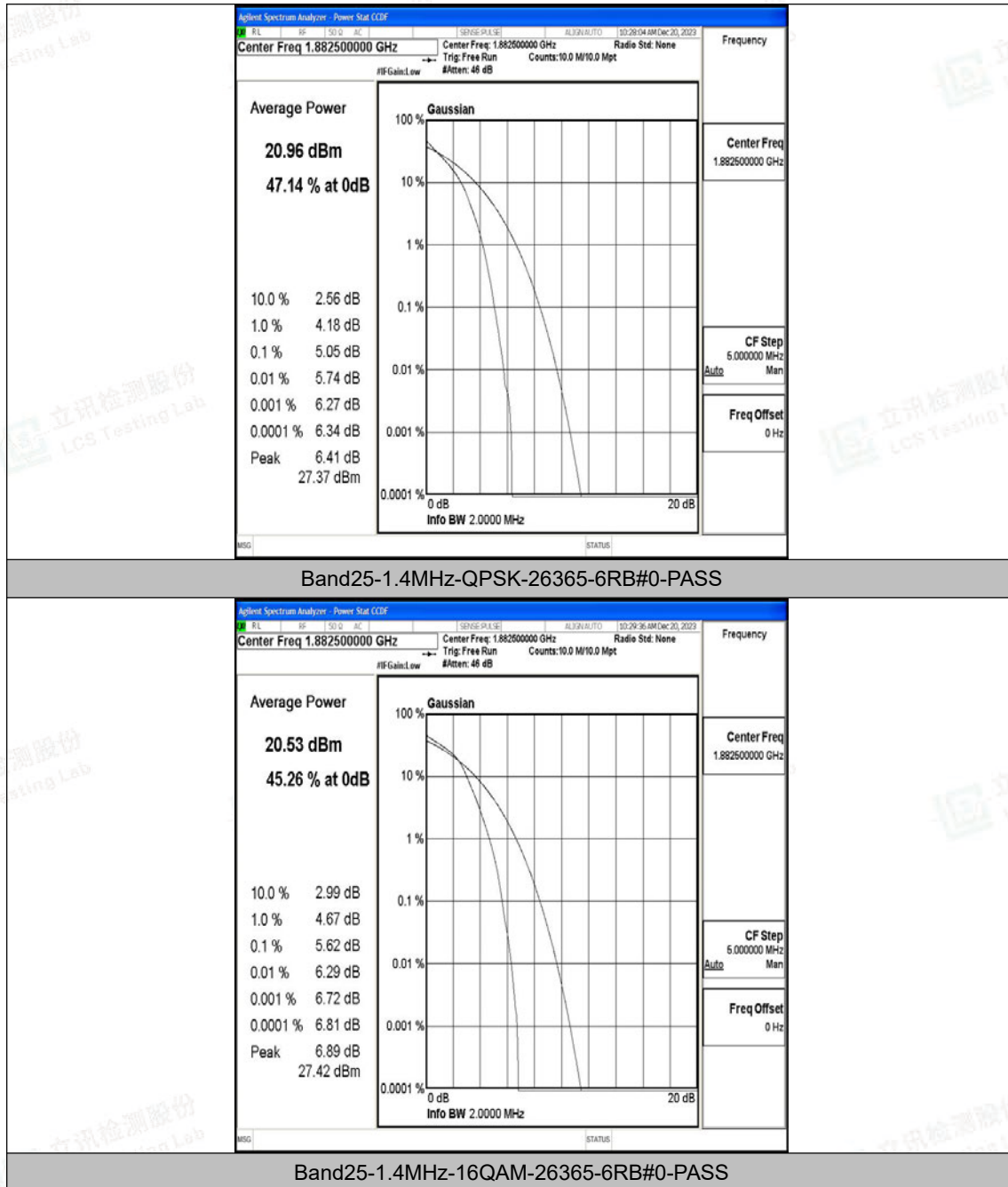


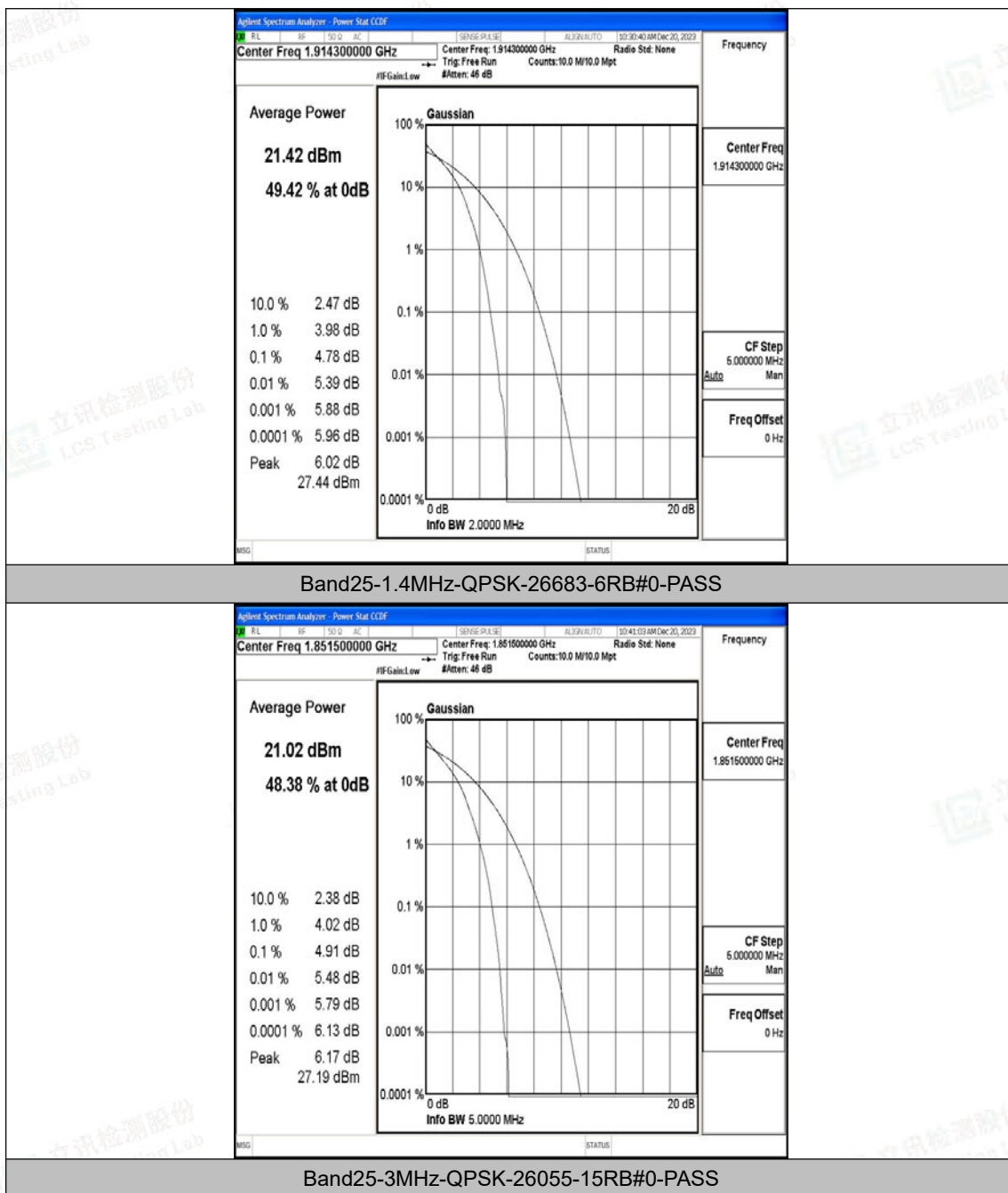
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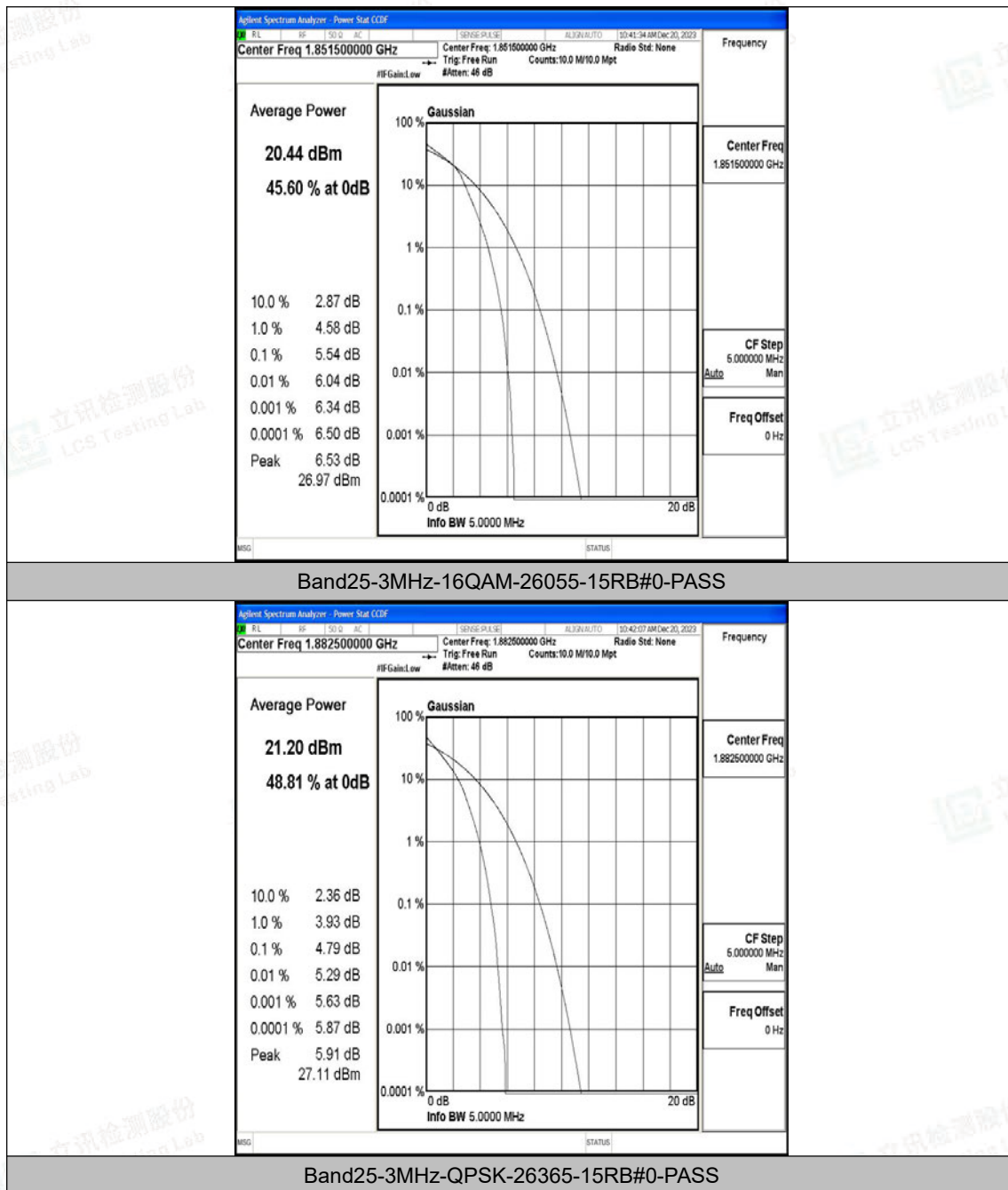


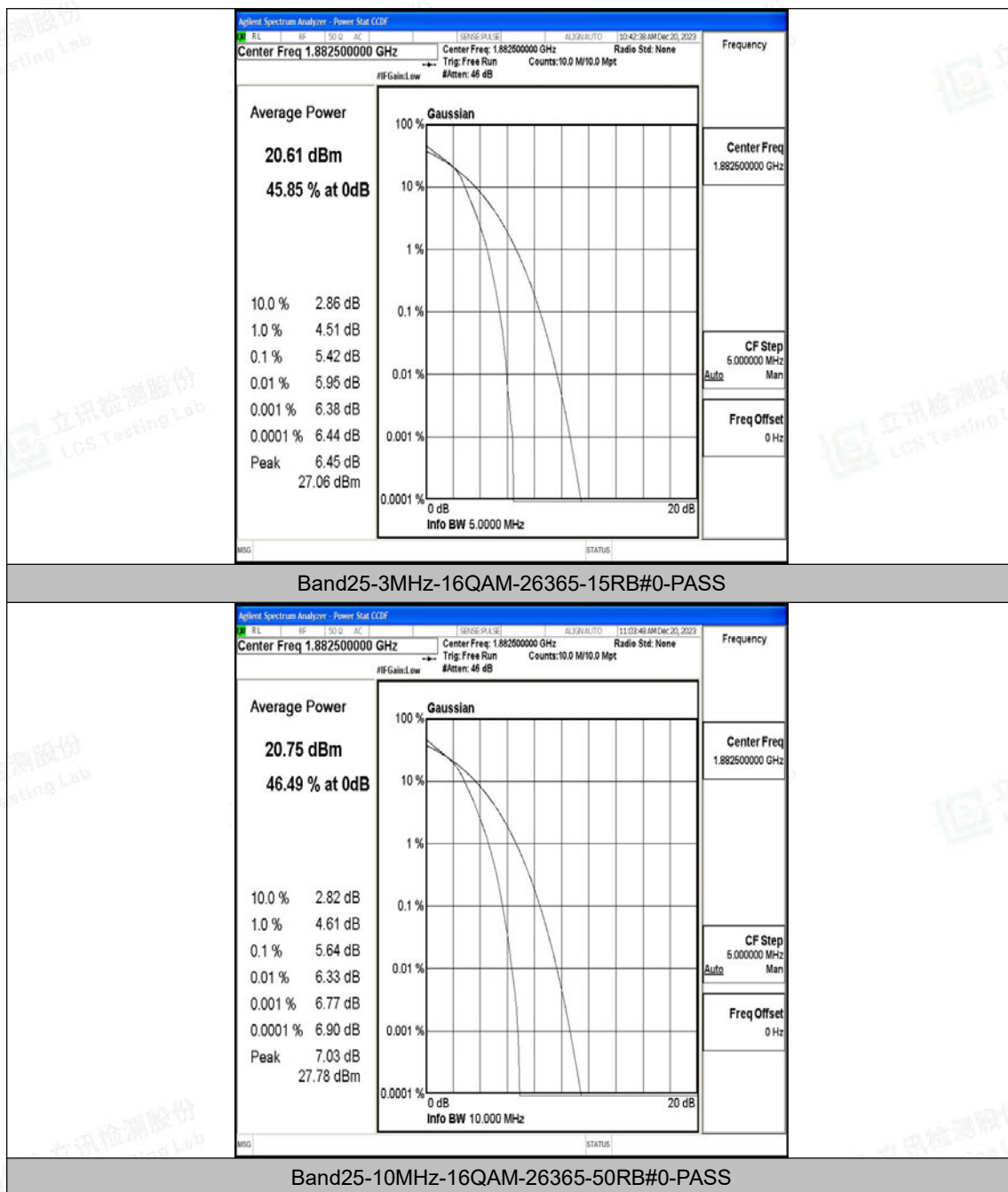
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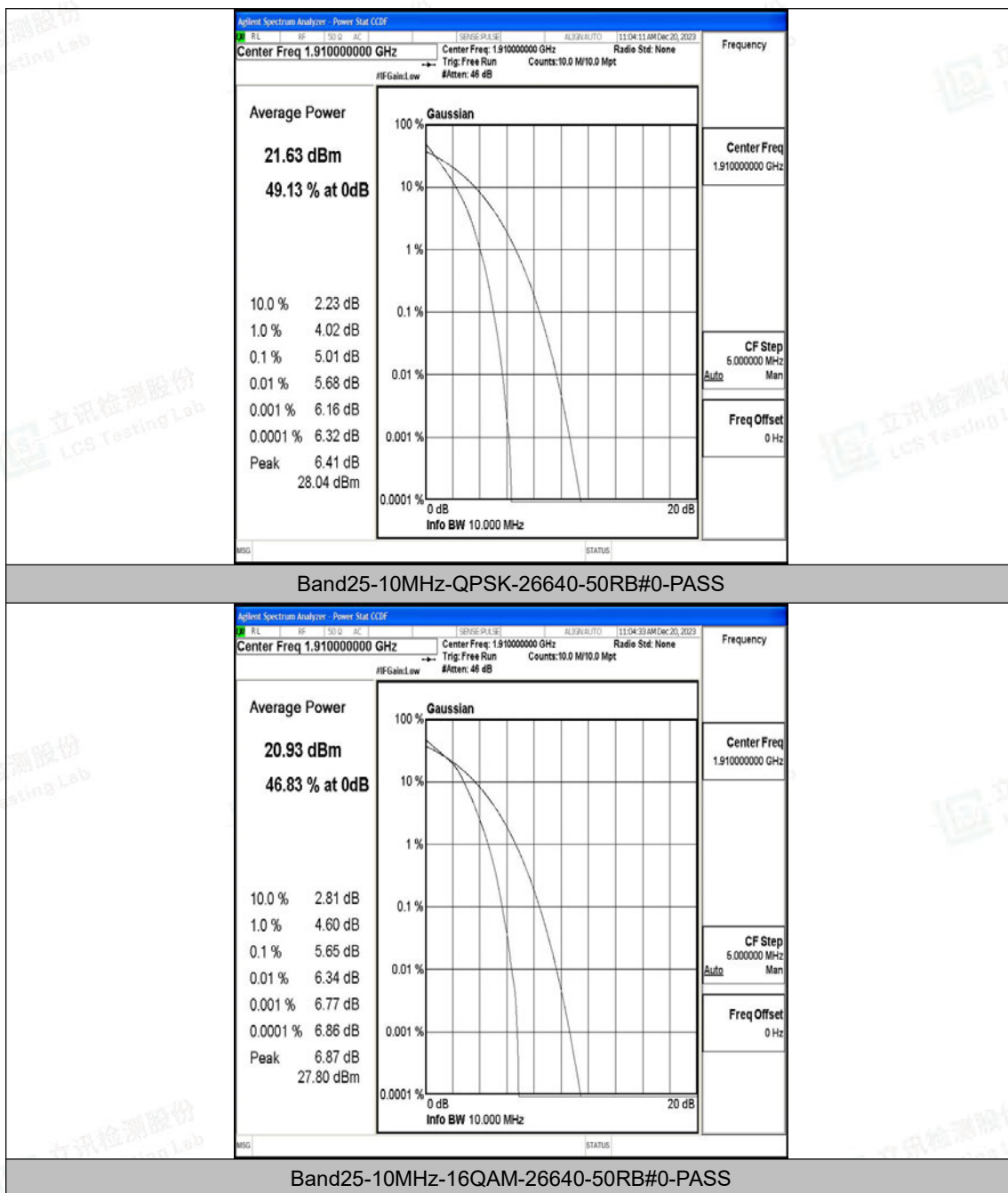
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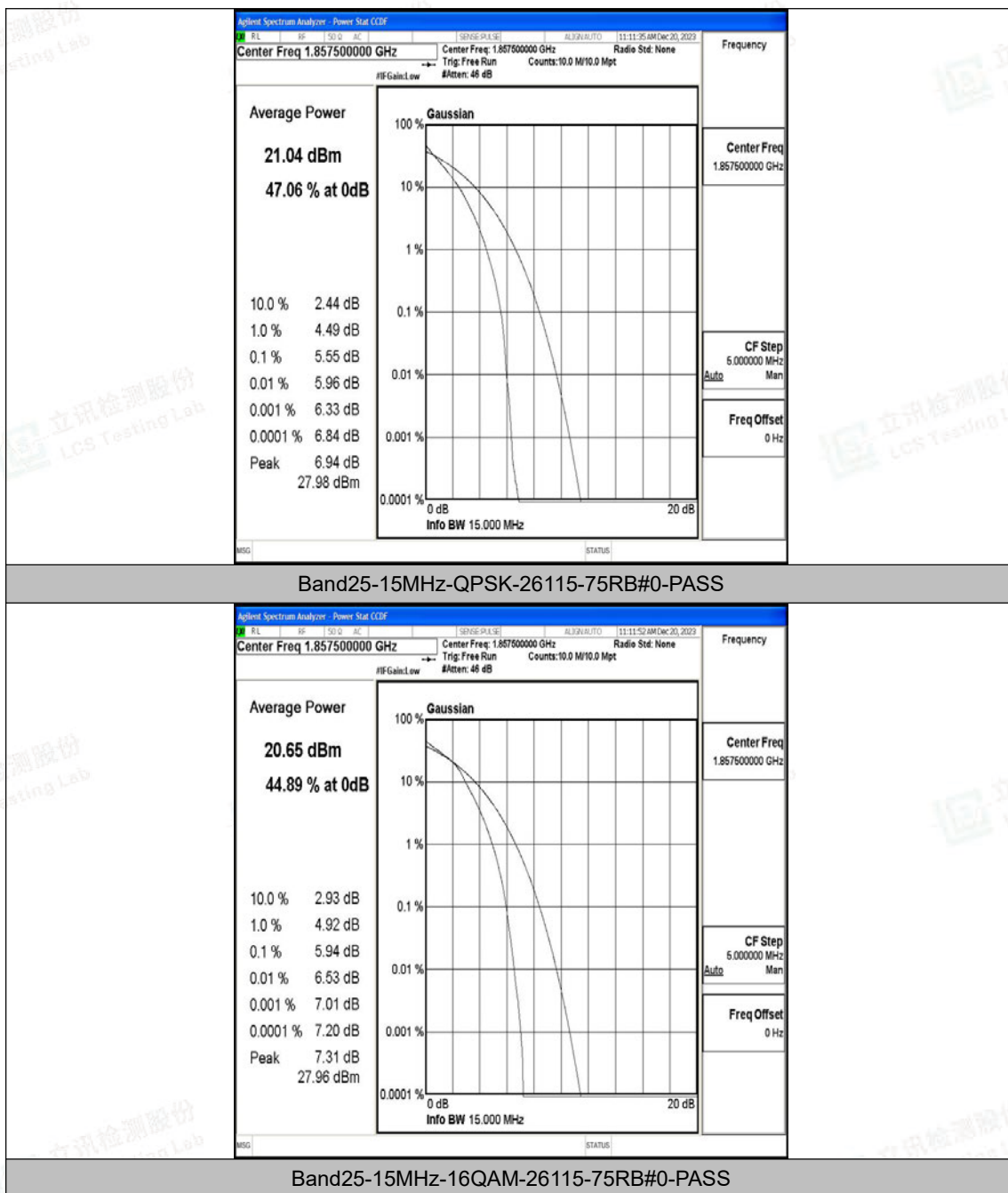


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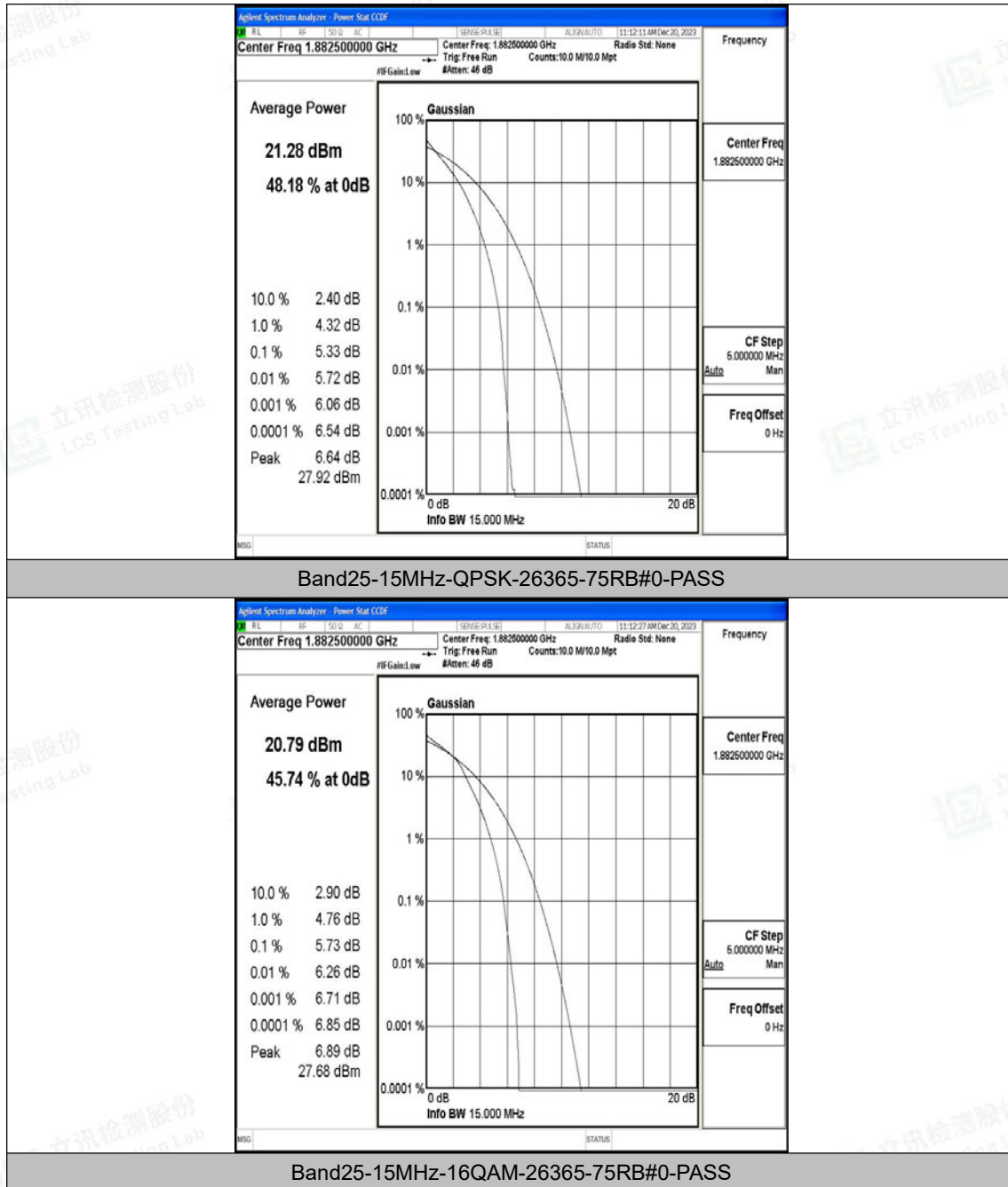


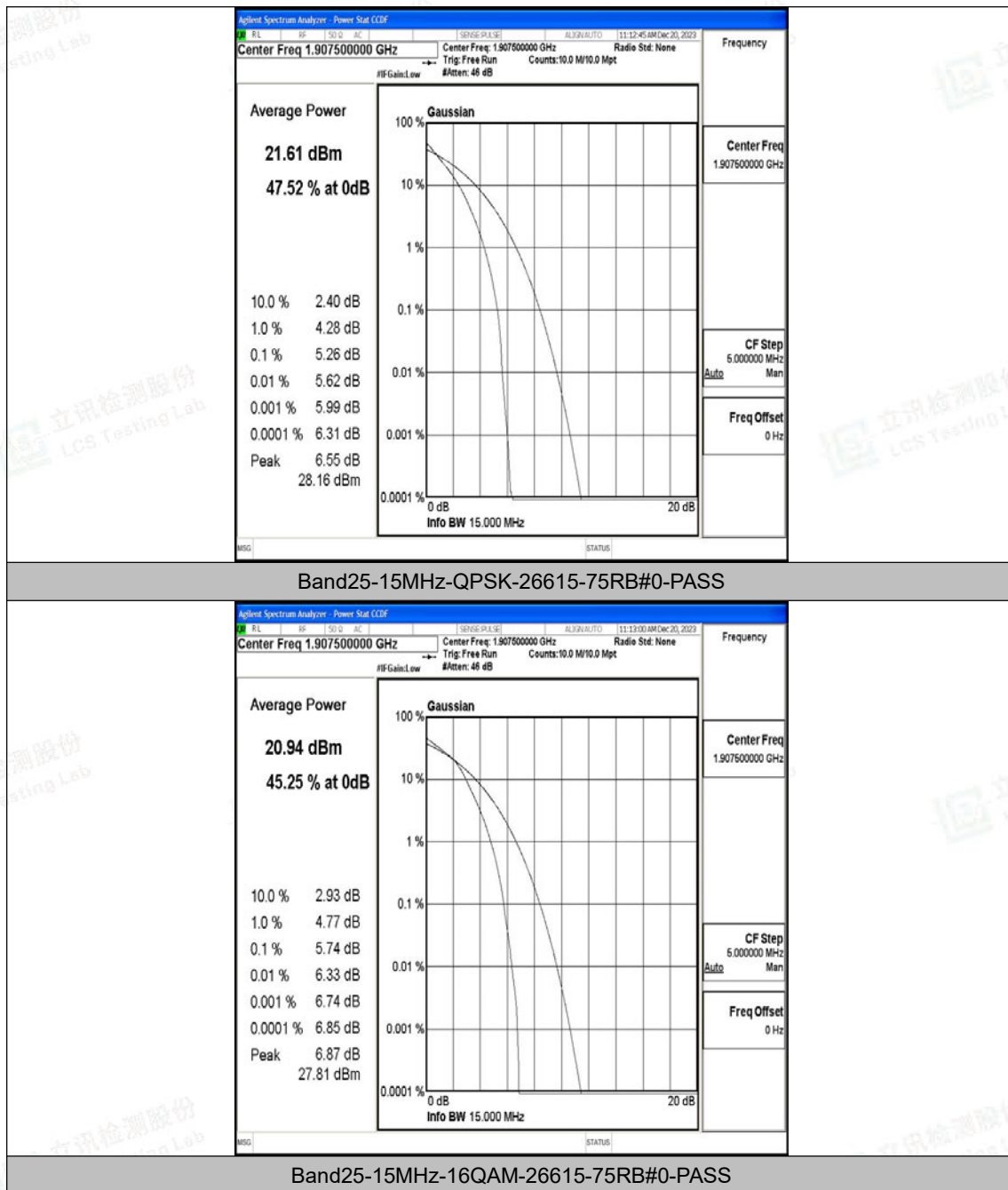
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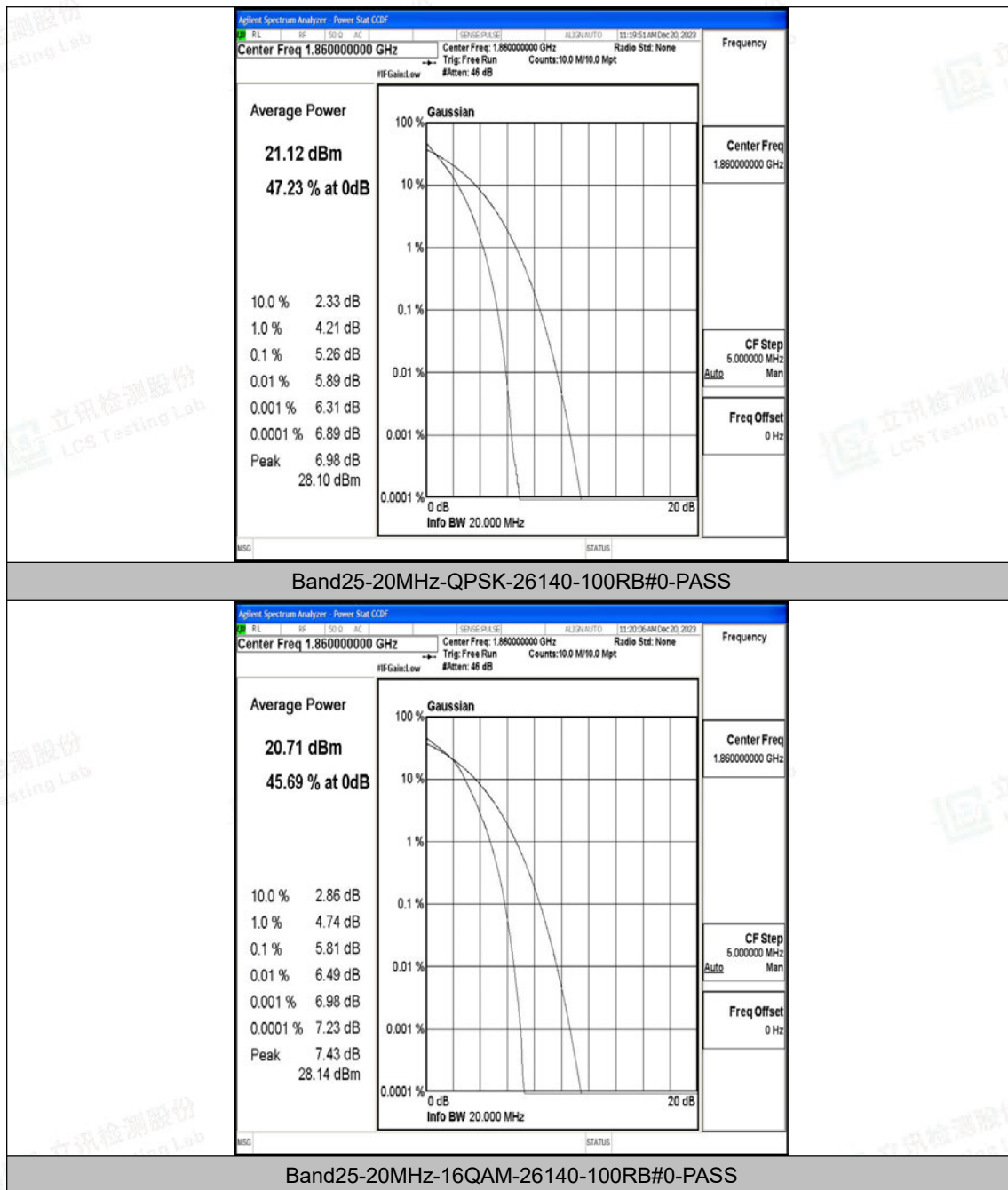
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### G.3 26dB Bandwidth and Occupied Bandwidth

#### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band25 | 1.4MHz    | QPSK       | 26047   | 6RB#0            | 1.0948                   | 1.294                | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 6RB#0            | 1.1067                   | 1.372                | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26365   | 6RB#0            | 1.0977                   | 1.372                | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26365   | 6RB#0            | 1.1120                   | 1.368                | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 6RB#0            | 1.0964                   | 1.367                | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 6RB#0            | 1.1125                   | 1.339                | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 15RB#0           | 2.7252                   | 3.091                | PASS    |
| Band25 | 3MHz      | 16QAM      | 26055   | 15RB#0           | 2.7012                   | 3.087                | PASS    |
| Band25 | 3MHz      | QPSK       | 26365   | 15RB#0           | 2.7153                   | 3.103                | PASS    |
| Band25 | 3MHz      | 16QAM      | 26365   | 15RB#0           | 2.7023                   | 3.106                | PASS    |
| Band25 | 3MHz      | QPSK       | 26675   | 15RB#0           | 2.7111                   | 3.116                | PASS    |
| Band25 | 3MHz      | 16QAM      | 26675   | 15RB#0           | 2.7039                   | 3.068                | PASS    |
| Band25 | 5MHz      | QPSK       | 26065   | 25RB#0           | 4.5263                   | 5.248                | PASS    |
| Band25 | 5MHz      | 16QAM      | 26065   | 25RB#0           | 4.5164                   | 5.305                | PASS    |
| Band25 | 5MHz      | QPSK       | 26365   | 25RB#0           | 4.5281                   | 5.296                | PASS    |
| Band25 | 5MHz      | 16QAM      | 26365   | 25RB#0           | 4.5183                   | 5.305                | PASS    |
| Band25 | 5MHz      | QPSK       | 26665   | 25RB#0           | 4.5348                   | 5.296                | PASS    |
| Band25 | 5MHz      | 16QAM      | 26665   | 25RB#0           | 4.5241                   | 5.265                | PASS    |
| Band25 | 10MHz     | QPSK       | 26090   | 50RB#0           | 9.0050                   | 10.15                | PASS    |
| Band25 | 10MHz     | 16QAM      | 26090   | 50RB#0           | 9.0134                   | 10.02                | PASS    |
| Band25 | 10MHz     | QPSK       | 26365   | 50RB#0           | 9.0128                   | 10.06                | PASS    |
| Band25 | 10MHz     | 16QAM      | 26365   | 50RB#0           | 9.0086                   | 10.23                | PASS    |
| Band25 | 10MHz     | QPSK       | 26640   | 50RB#0           | 9.0060                   | 9.952                | PASS    |
| Band25 | 10MHz     | 16QAM      | 26640   | 50RB#0           | 9.0041                   | 10.05                | PASS    |
| Band25 | 15MHz     | QPSK       | 26115   | 75RB#0           | 13.545                   | 15.51                | PASS    |
| Band25 | 15MHz     | 16QAM      | 26115   | 75RB#0           | 13.501                   | 14.97                | PASS    |
| Band25 | 15MHz     | QPSK       | 26365   | 75RB#0           | 13.532                   | 15.32                | PASS    |
| Band25 | 15MHz     | 16QAM      | 26365   | 75RB#0           | 13.518                   | 14.93                | PASS    |
| Band25 | 15MHz     | QPSK       | 26615   | 75RB#0           | 13.481                   | 15.33                | PASS    |
| Band25 | 15MHz     | 16QAM      | 26615   | 75RB#0           | 13.448                   | 14.95                | PASS    |
| Band25 | 20MHz     | QPSK       | 26140   | 100RB#0          | 18.017                   | 20.03                | PASS    |
| Band25 | 20MHz     | 16QAM      | 26140   | 100RB#0          | 18.041                   | 20.11                | PASS    |
| Band25 | 20MHz     | QPSK       | 26365   | 100RB#0          | 18.013                   | 20.19                | PASS    |
| Band25 | 20MHz     | 16QAM      | 26365   | 100RB#0          | 18.086                   | 20.27                | PASS    |



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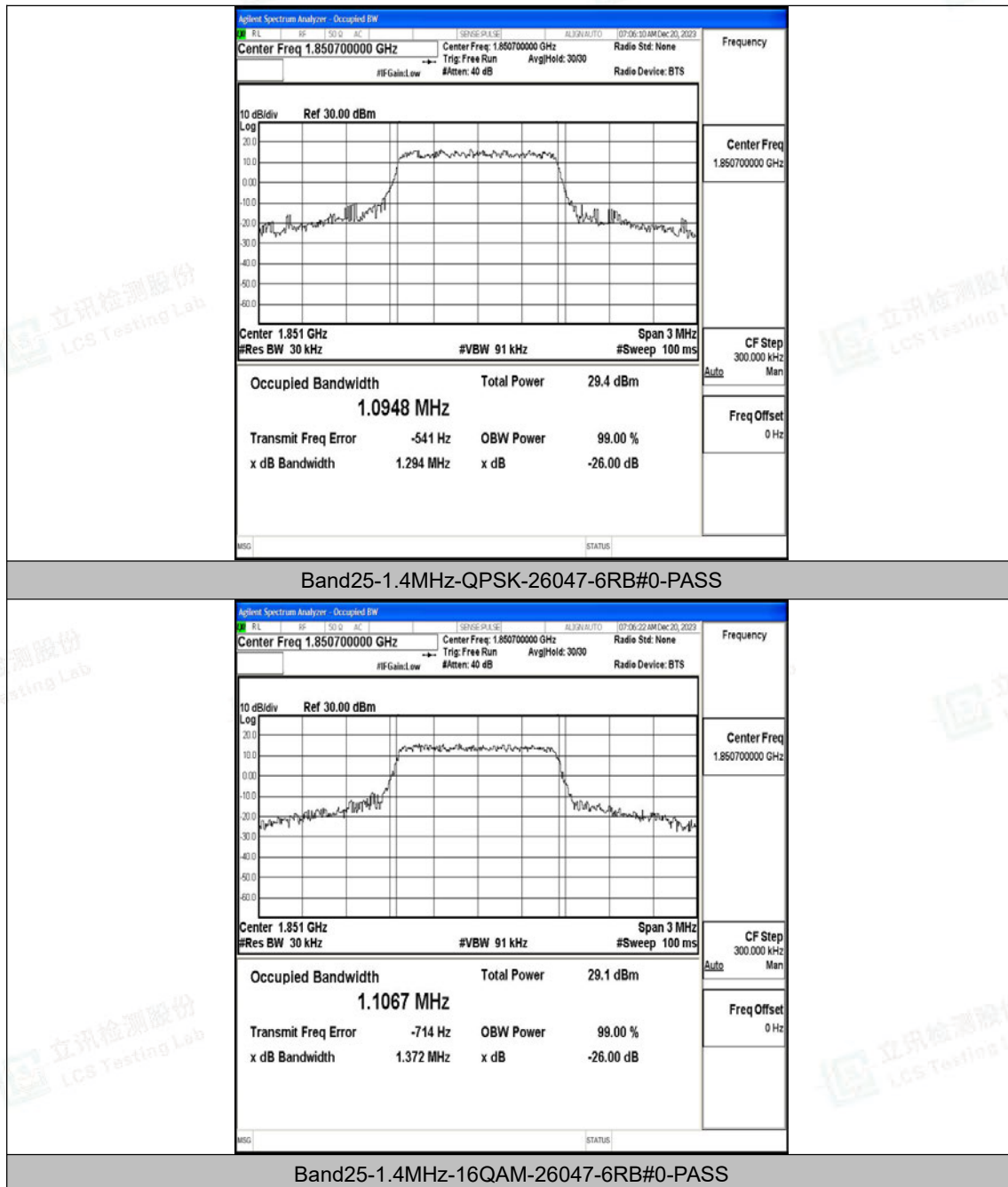
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|--------|-------|-------|-------|---------|--------|-------|------|
| Band25 | 20MHz | QPSK  | 26590 | 100RB#0 | 17.989 | 19.93 | PASS |
| Band25 | 20MHz | 16QAM | 26590 | 100RB#0 | 17.986 | 19.97 | PASS |



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## Test Graphs

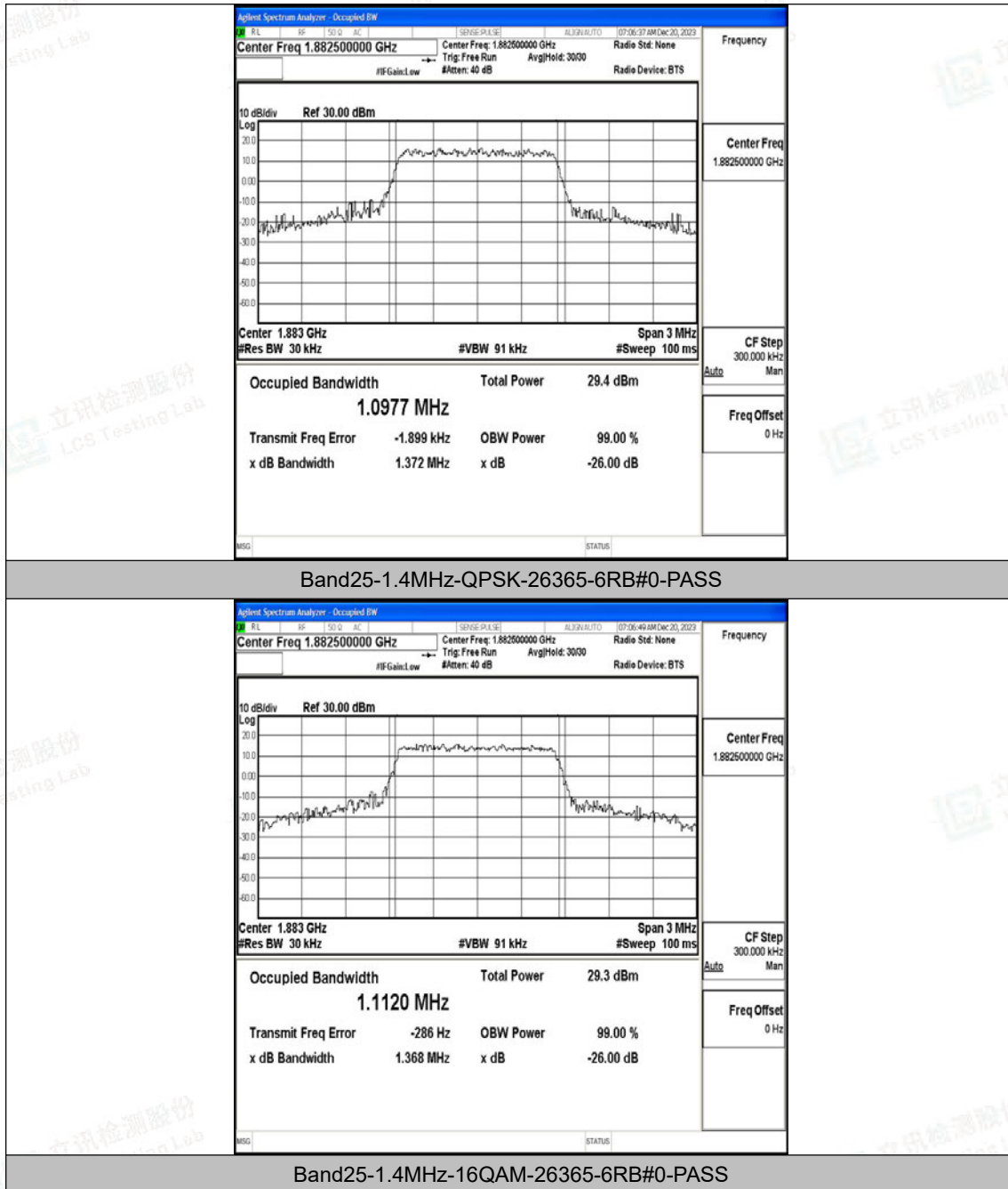


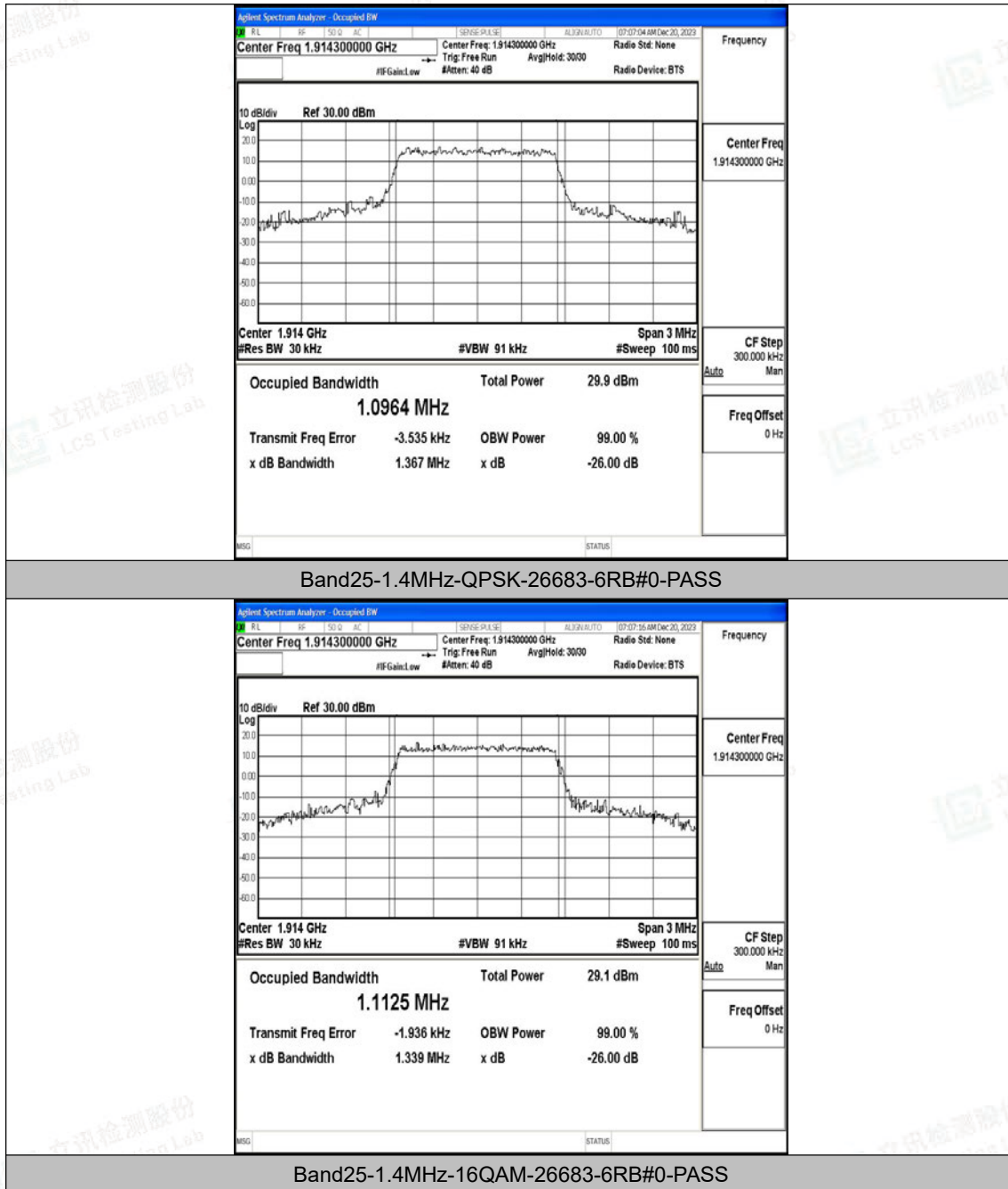
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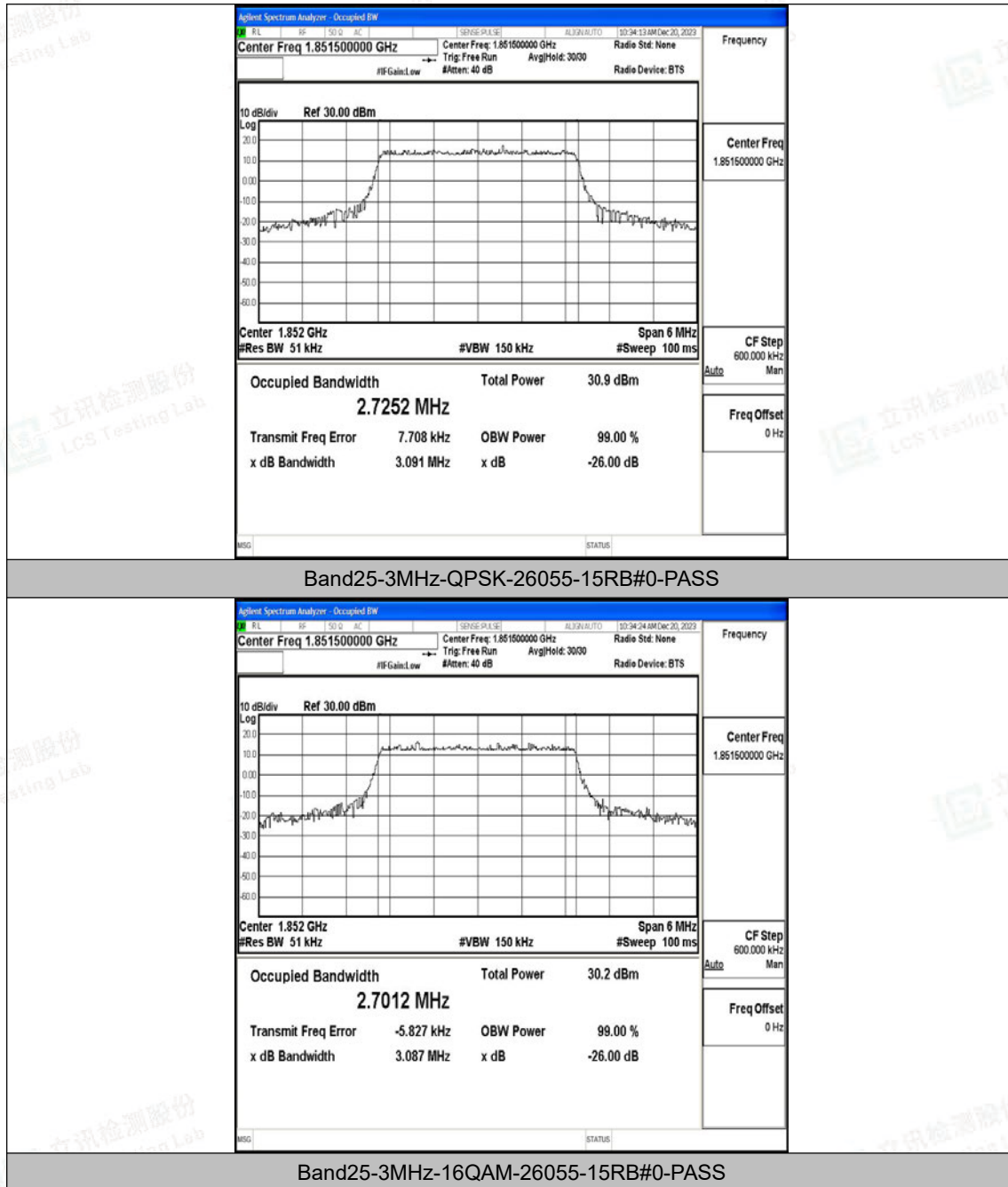
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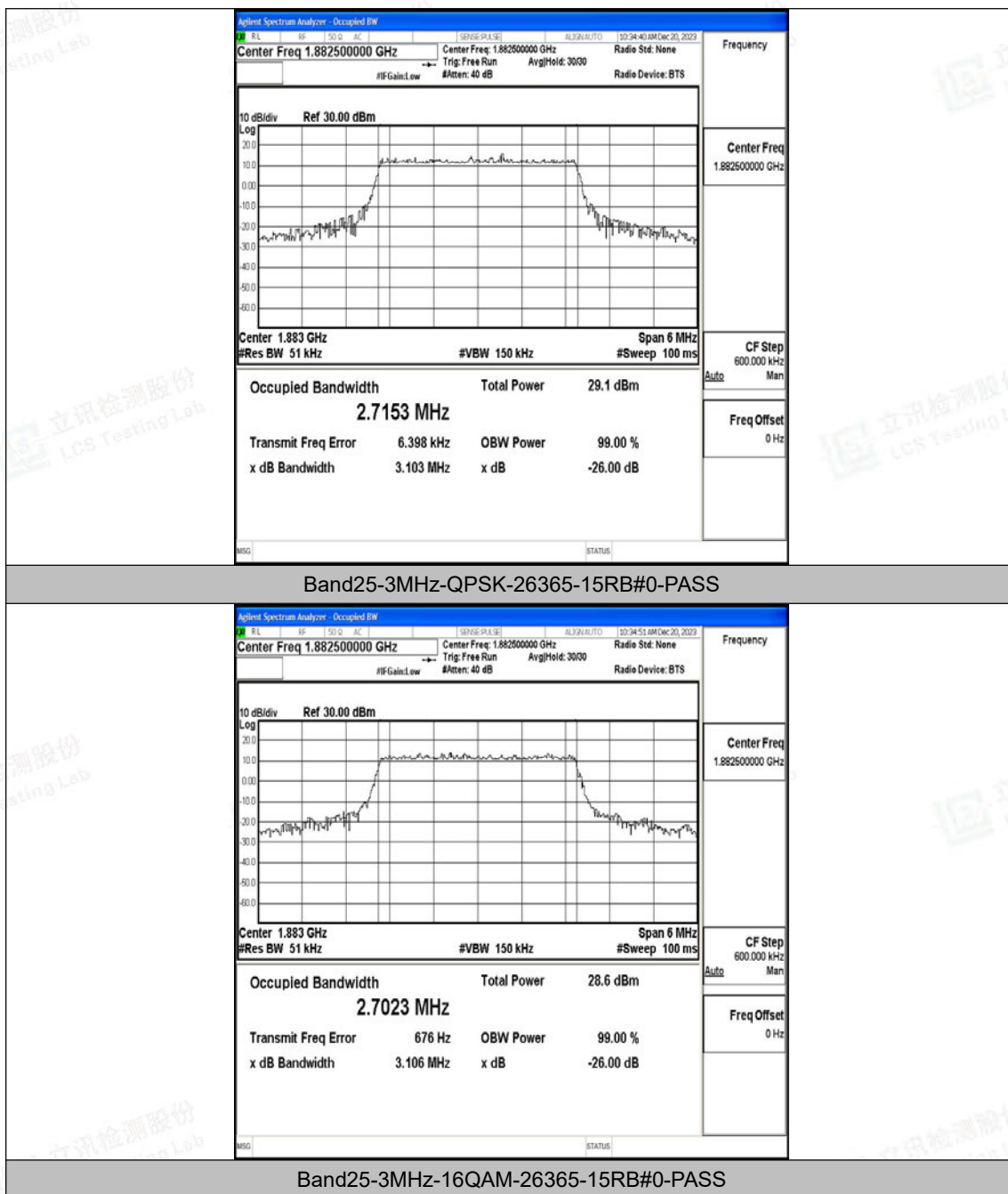
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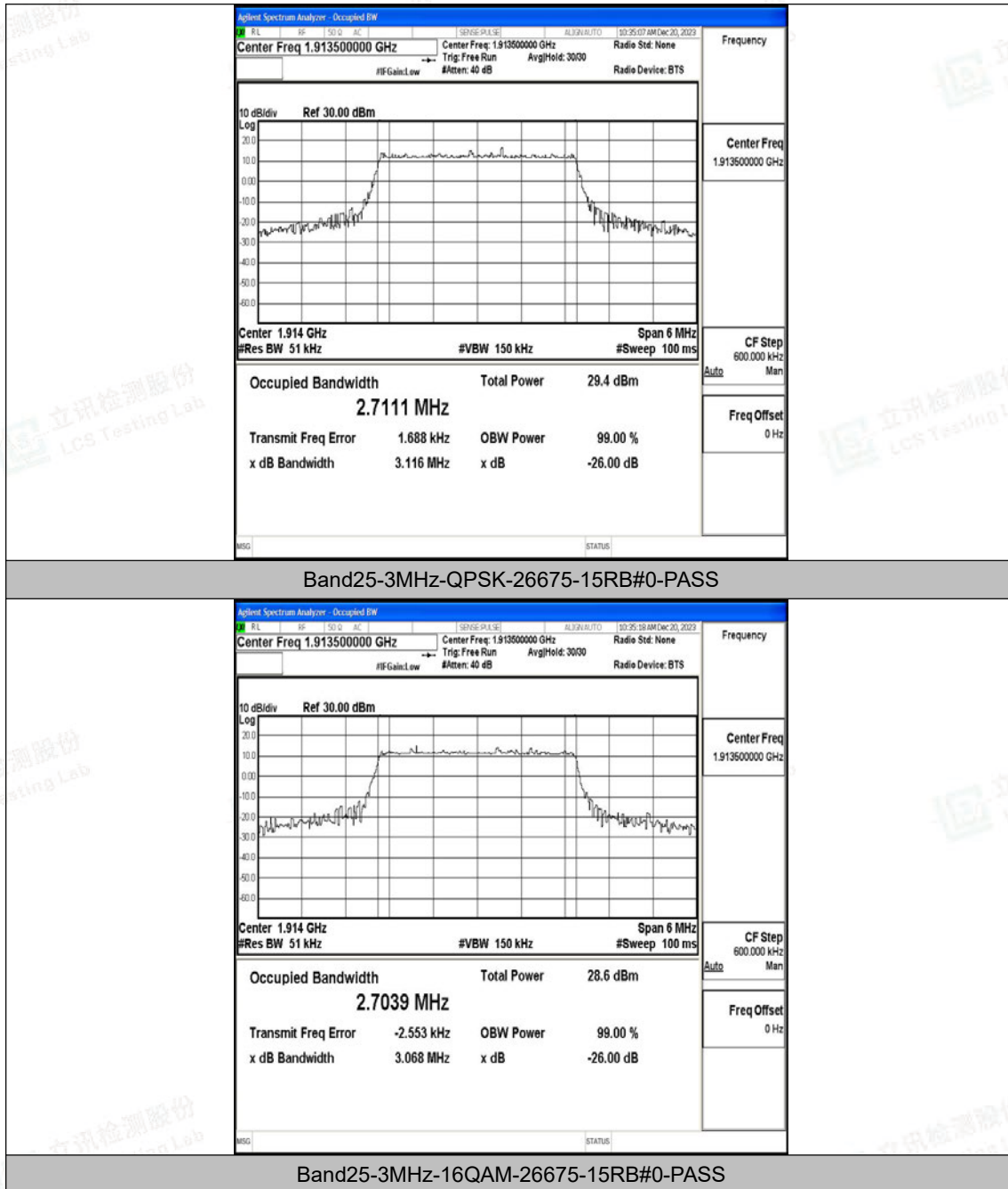
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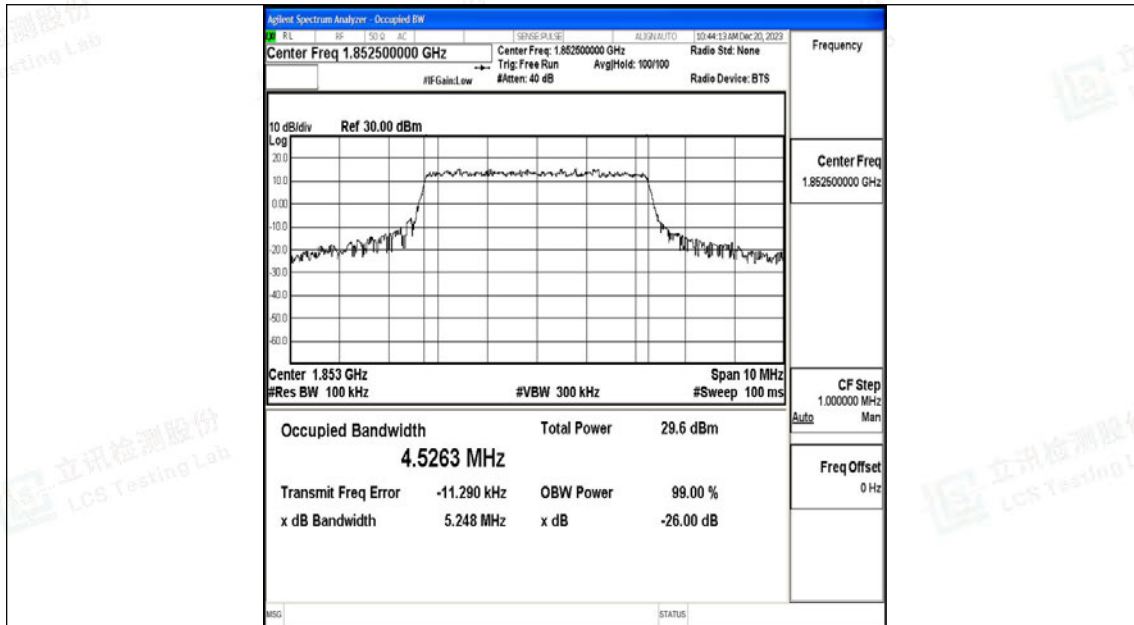


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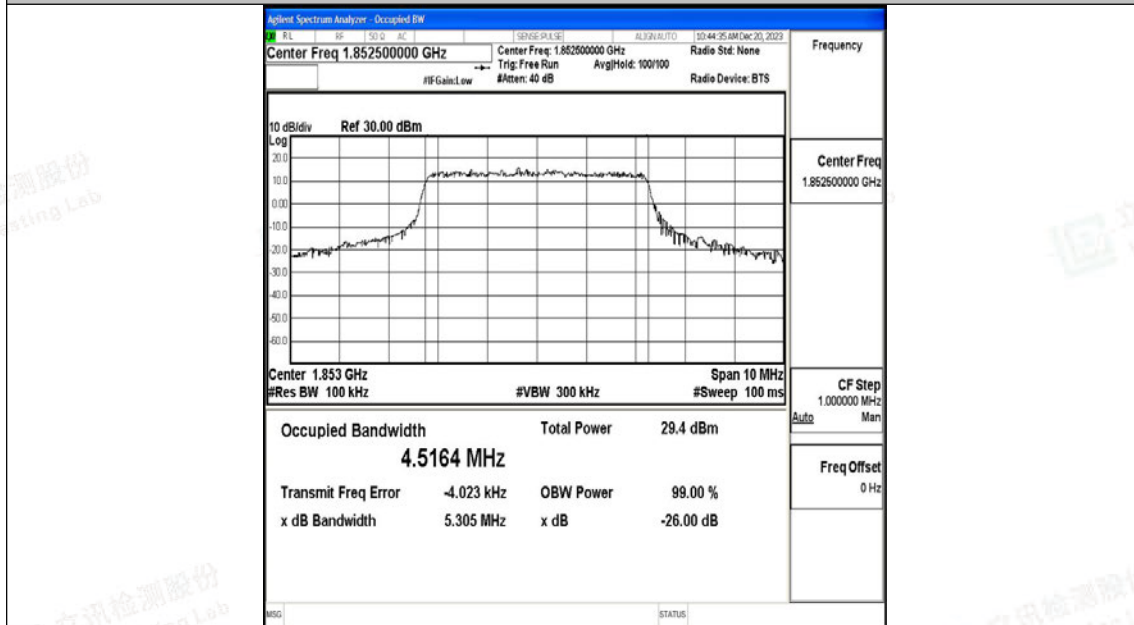
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Band25-5MHz-QPSK-26065-25RB#0-PASS



Band25-5MHz-16QAM-26065-25RB#0-PASS

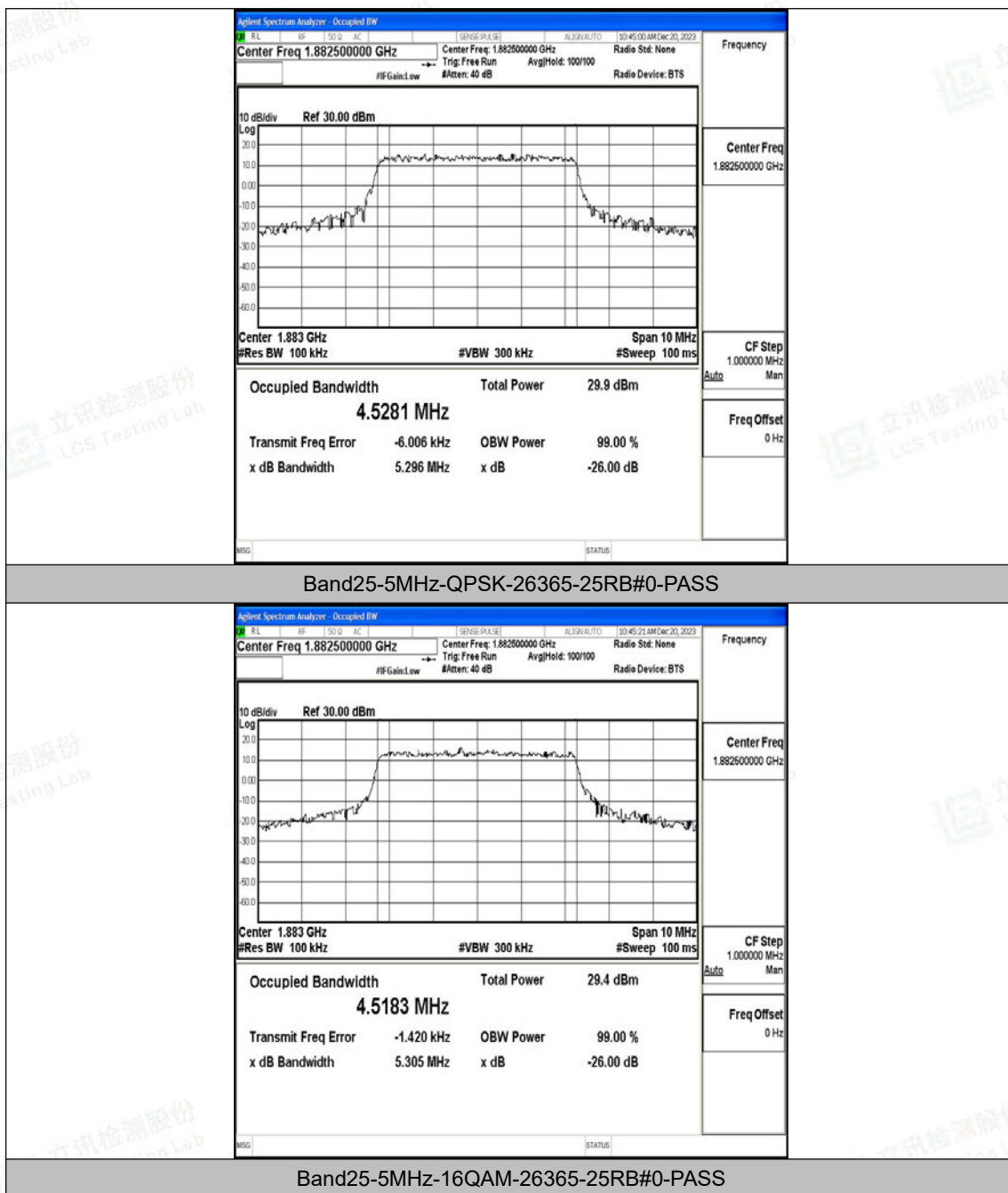


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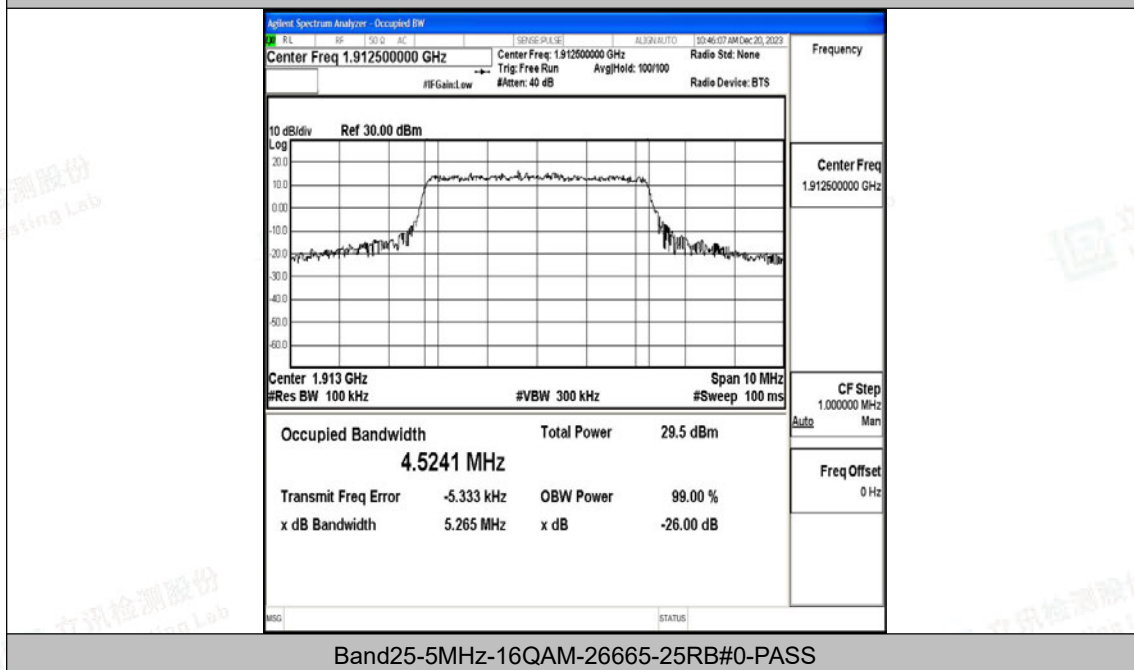
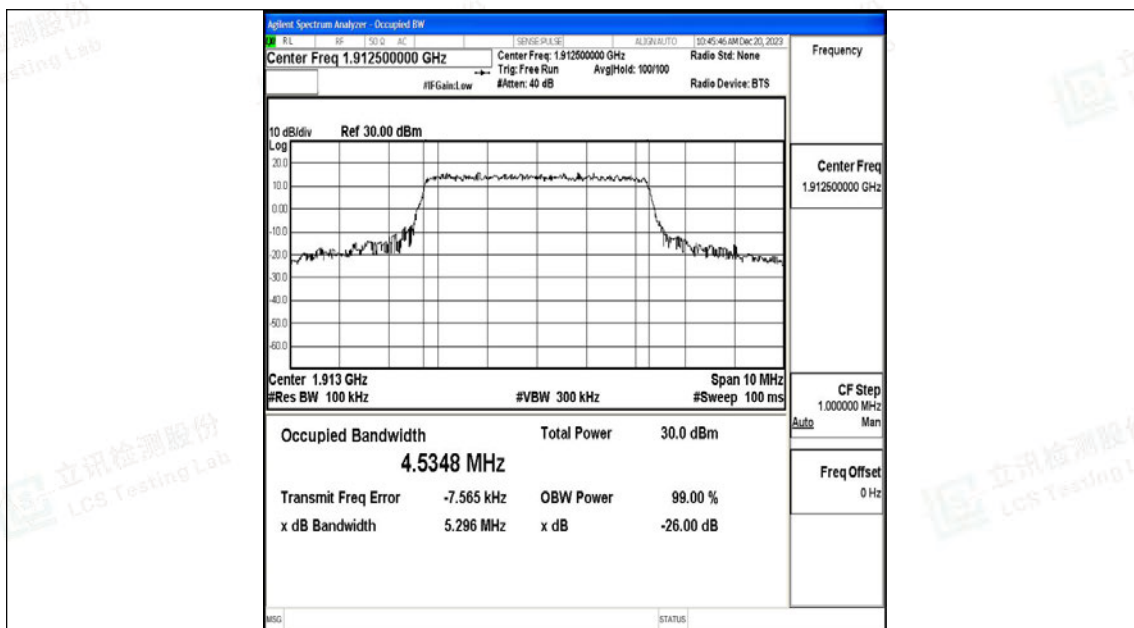


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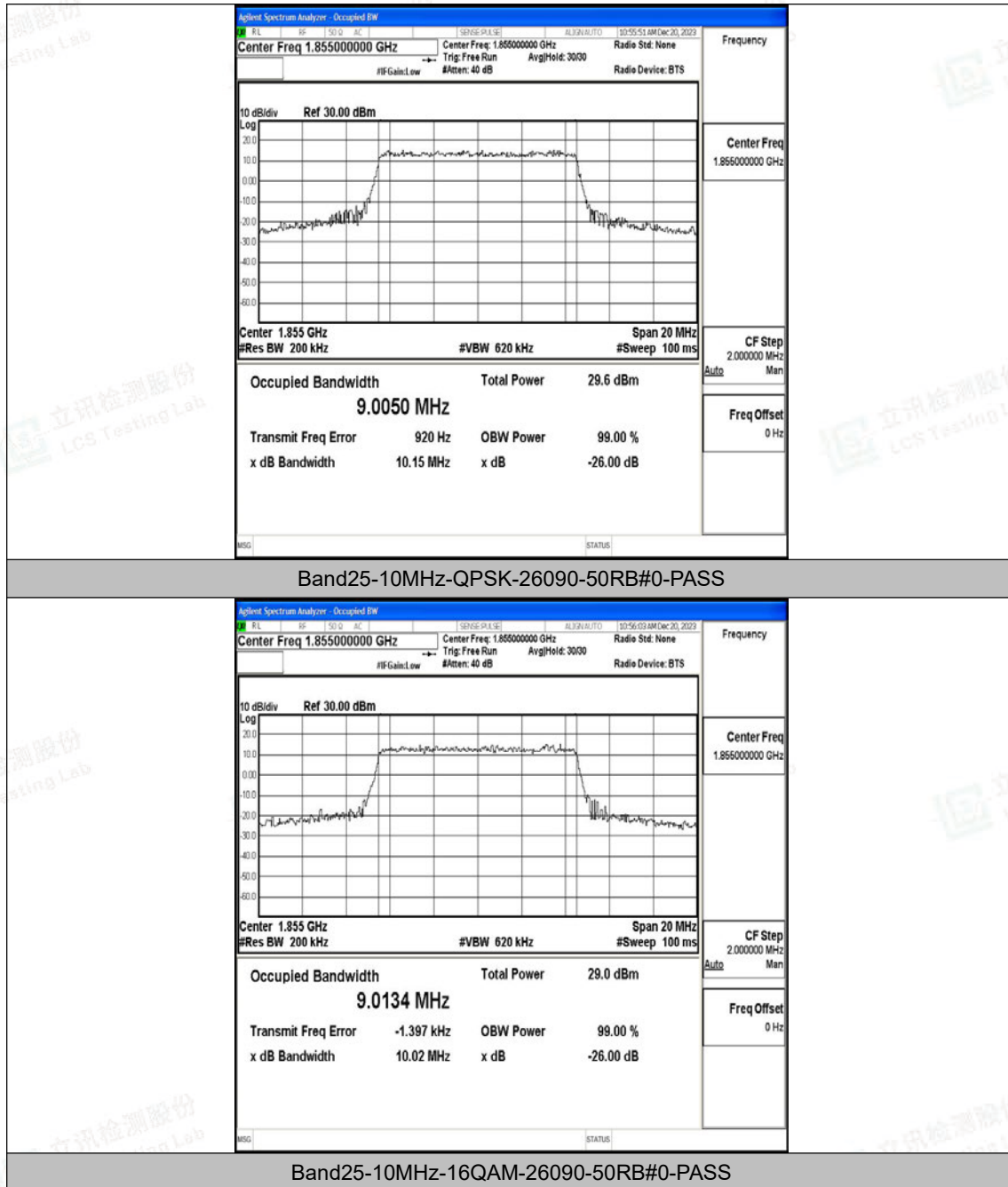


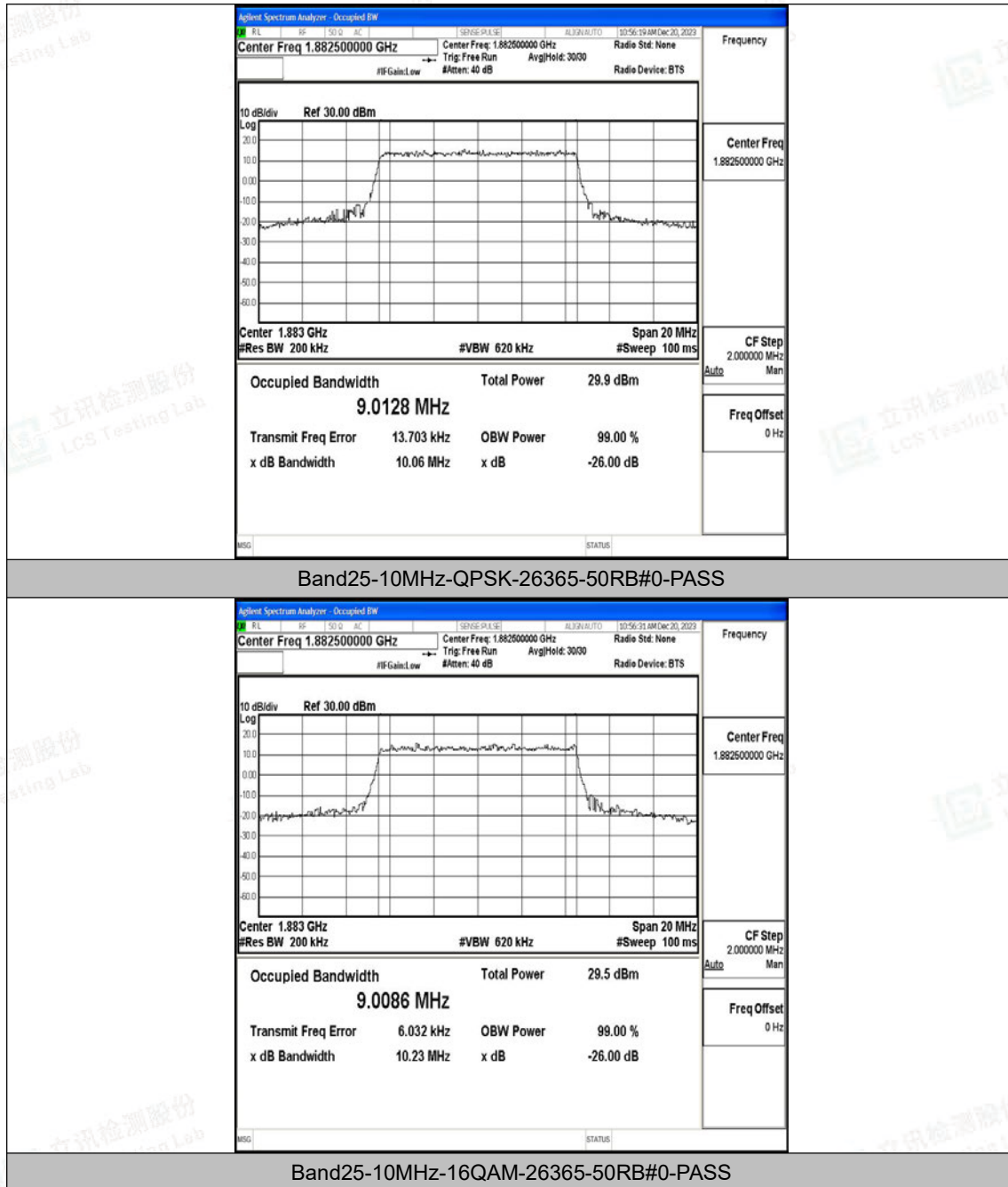
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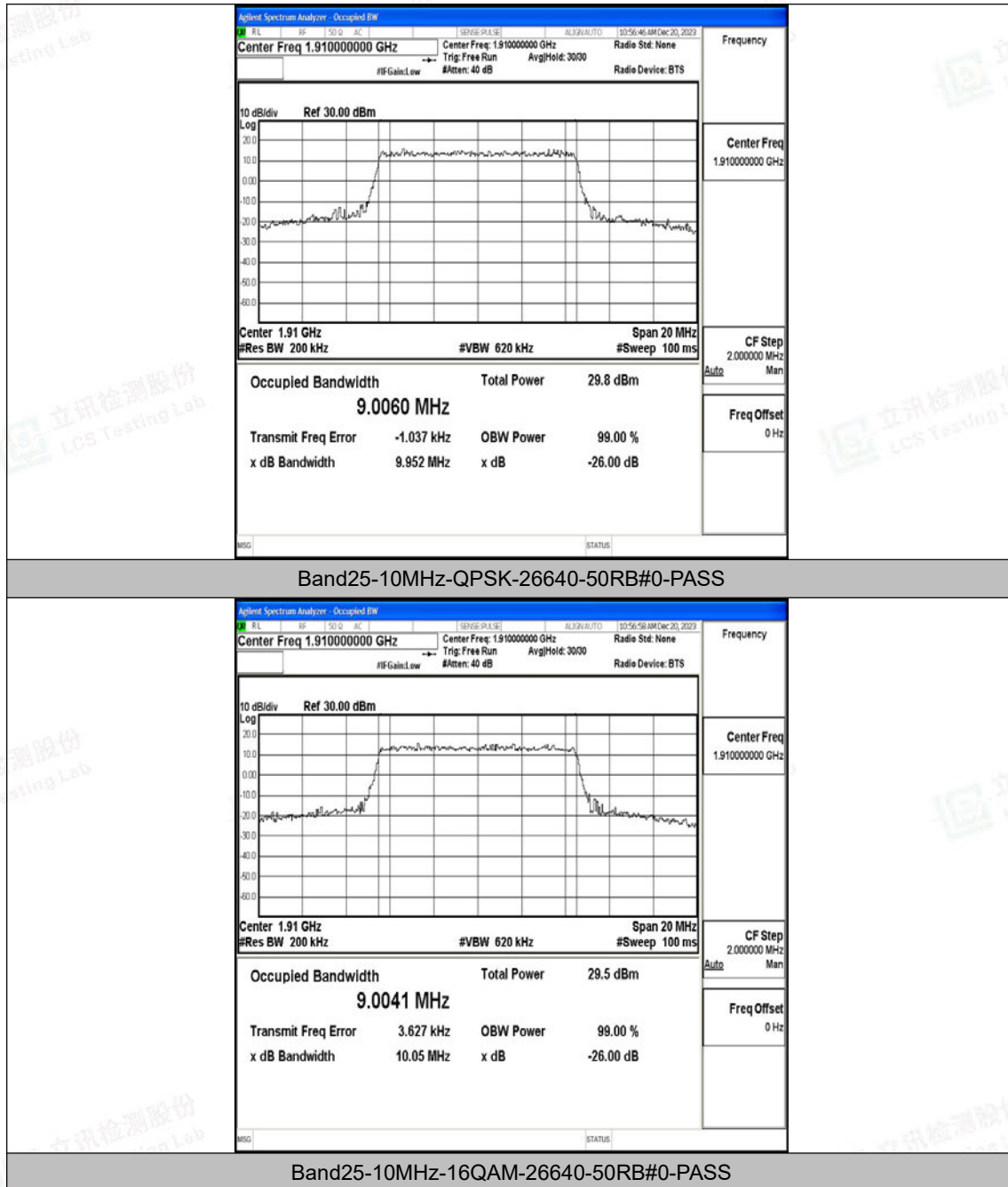
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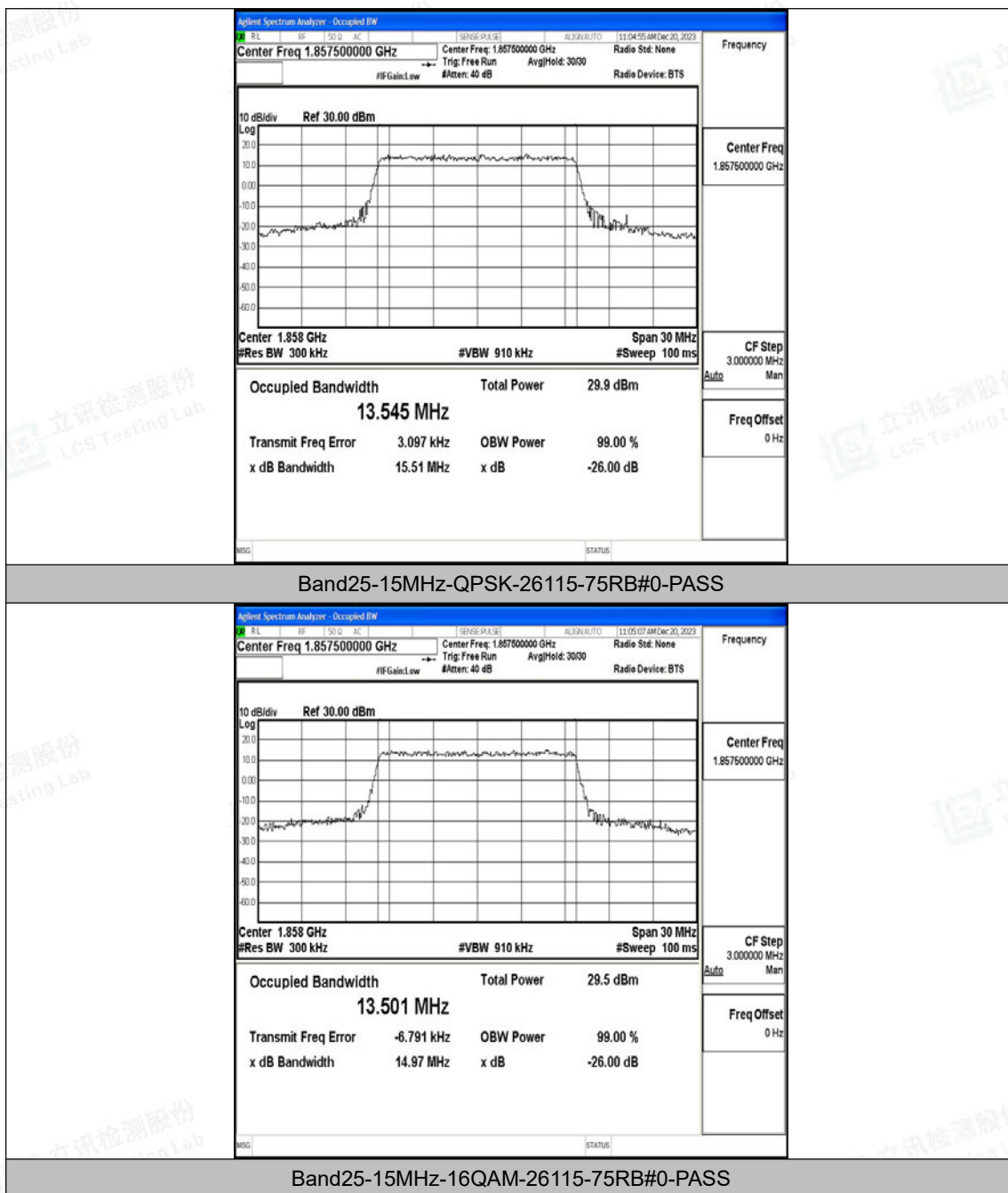


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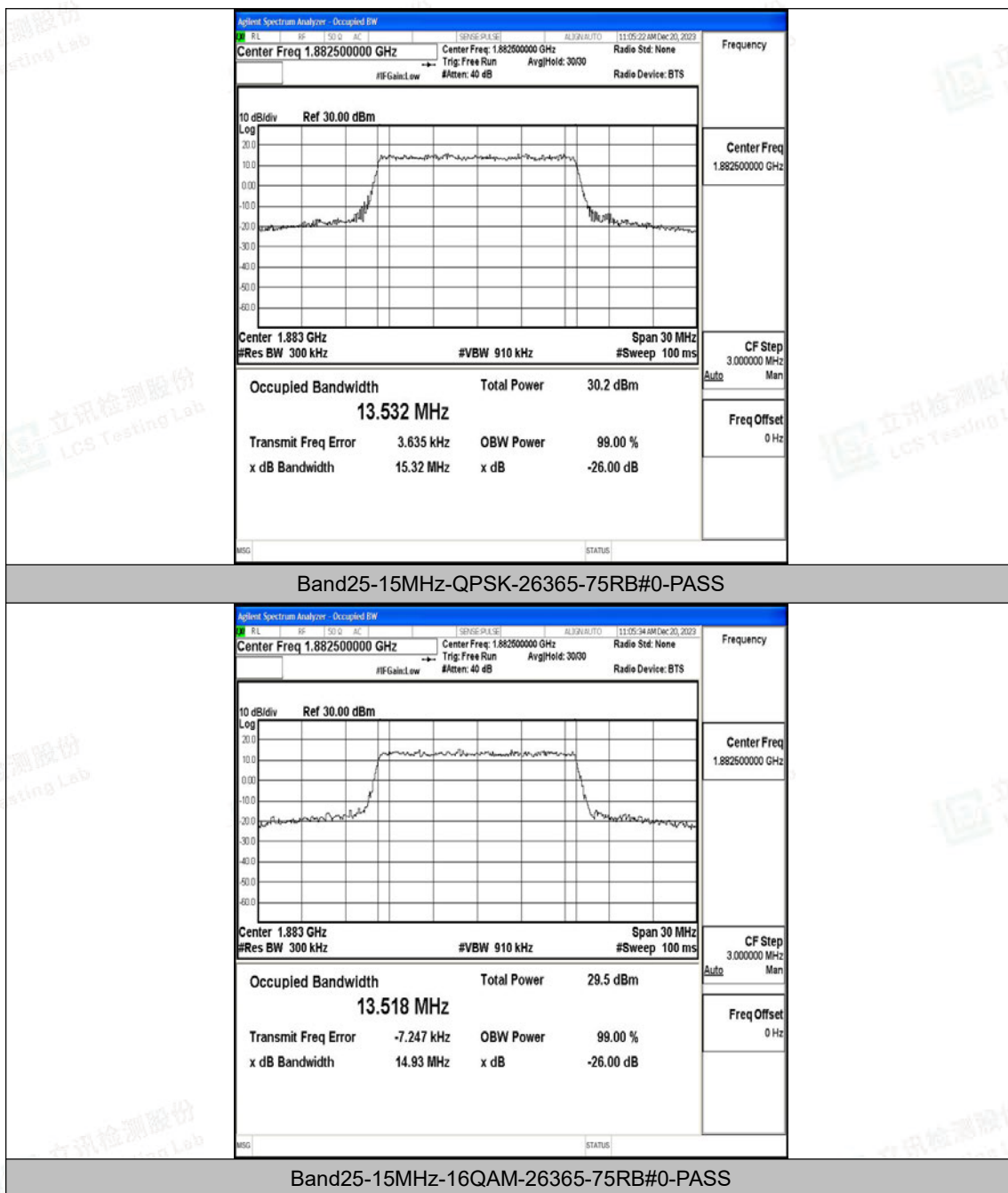


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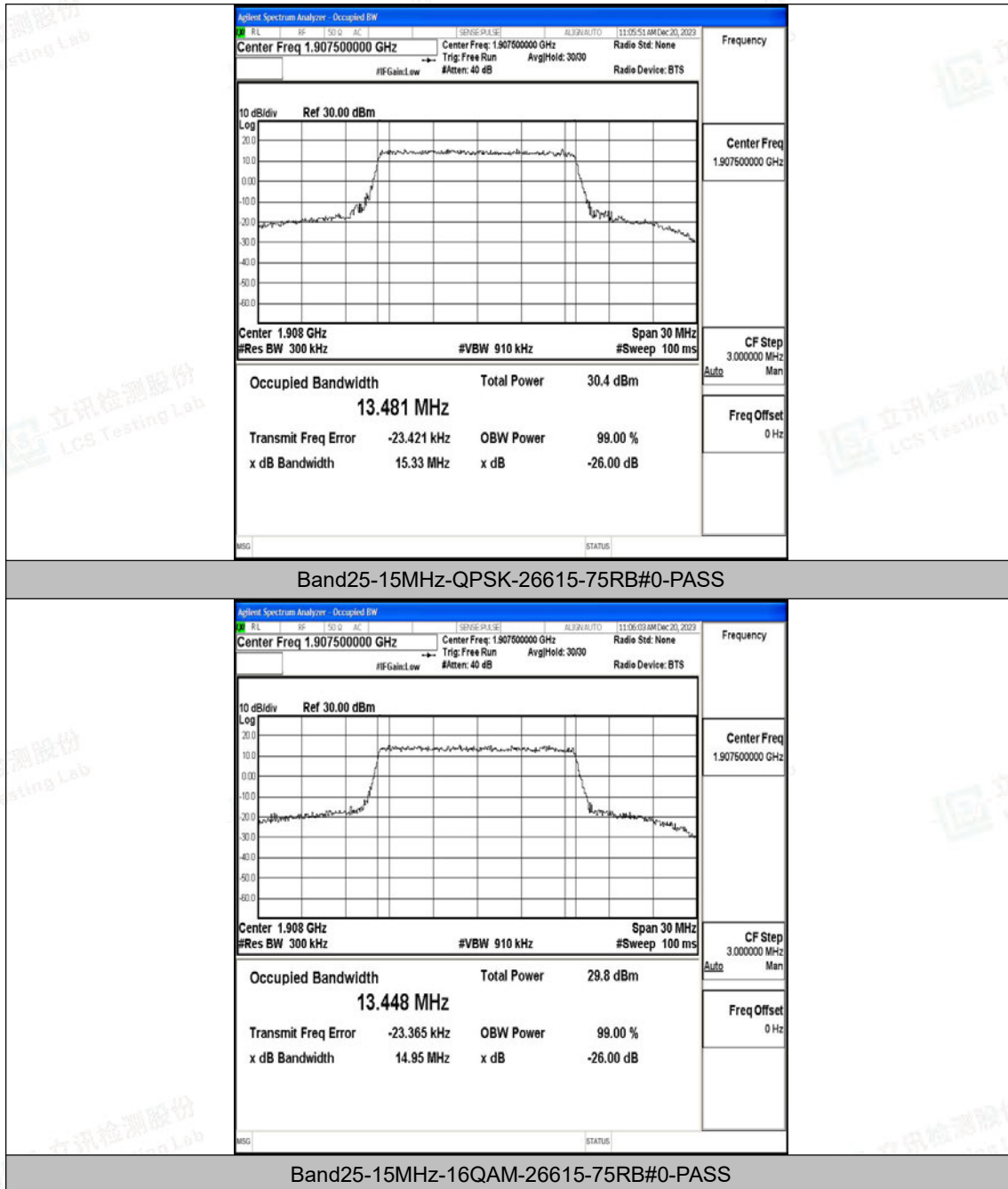


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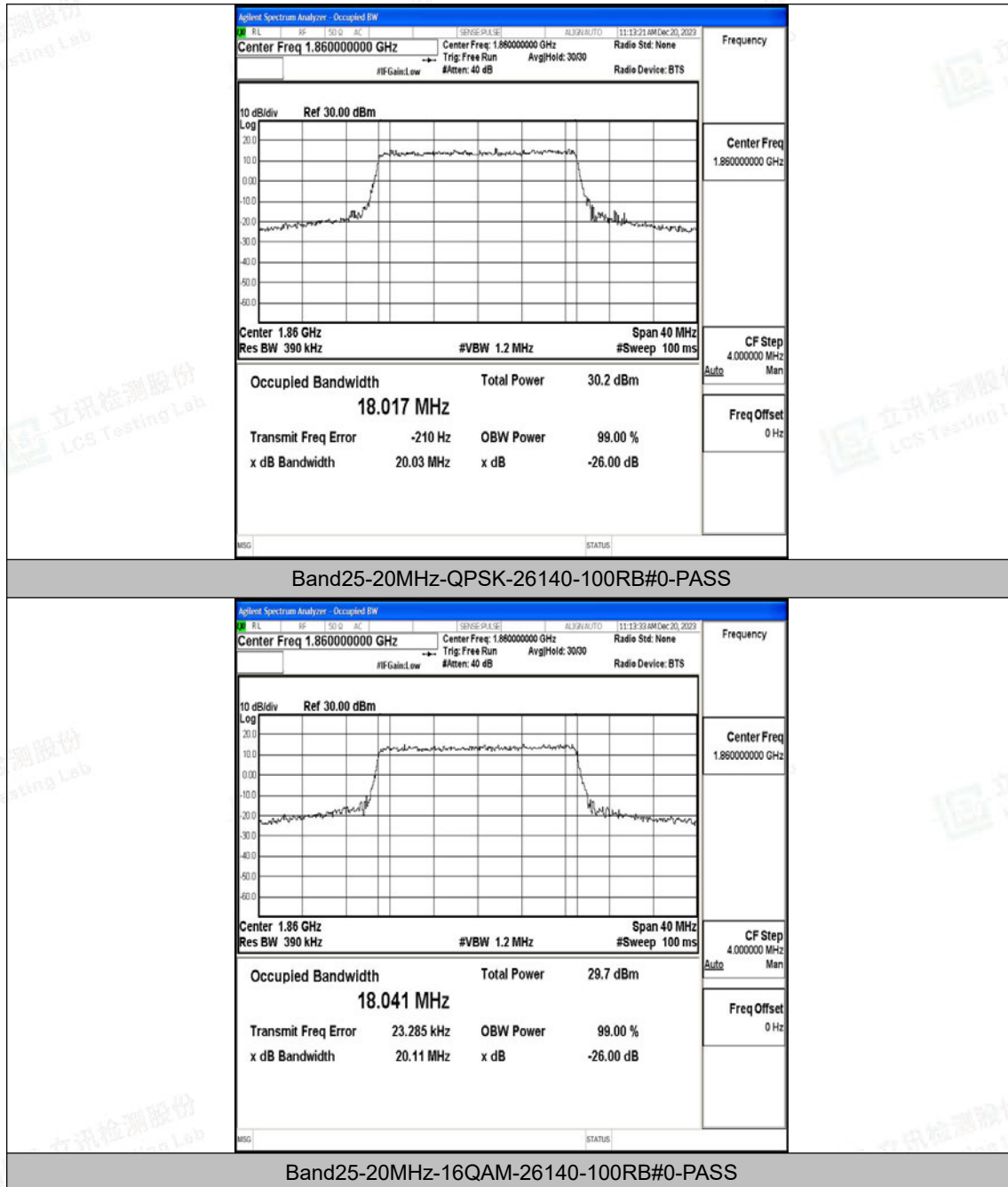


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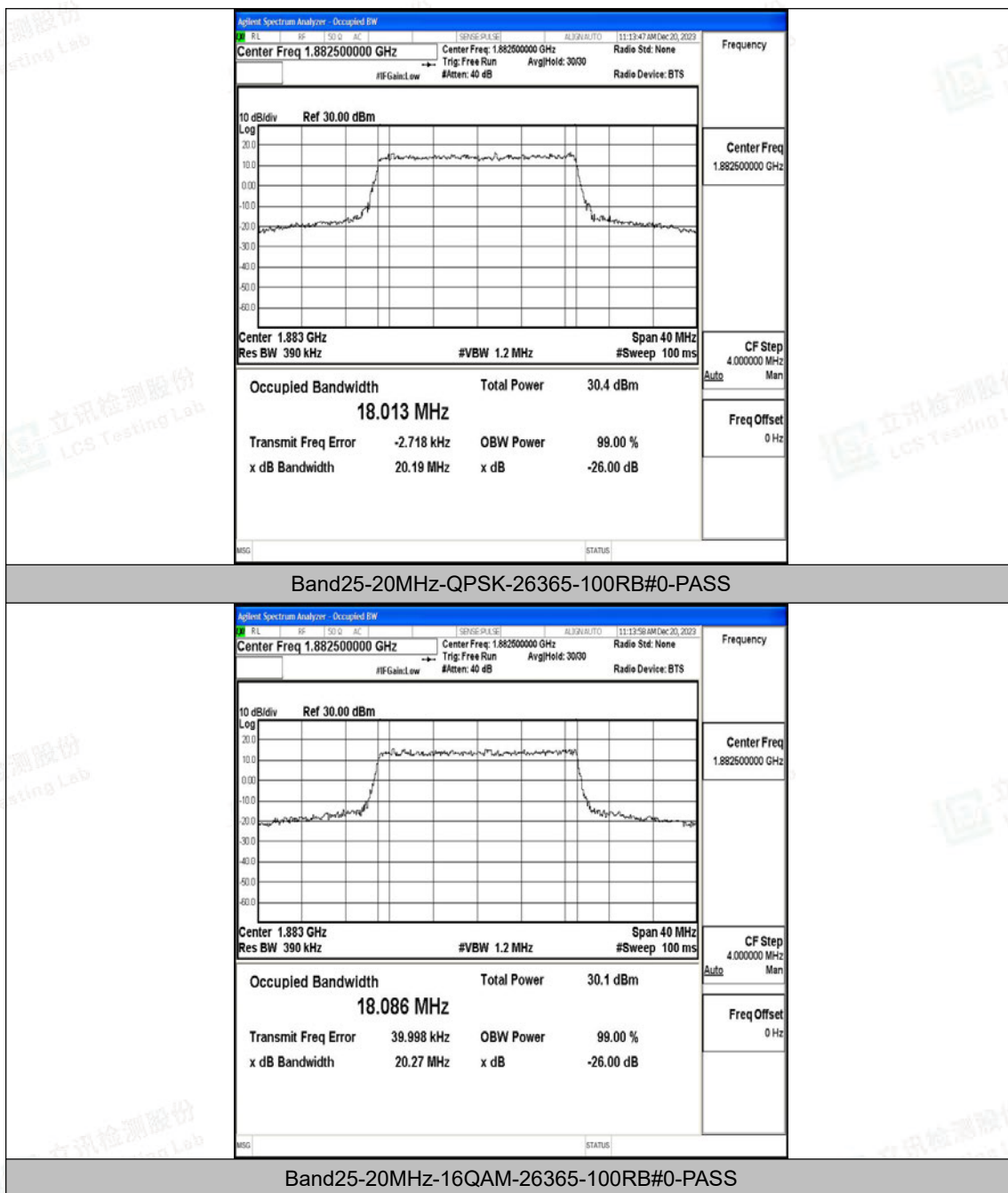


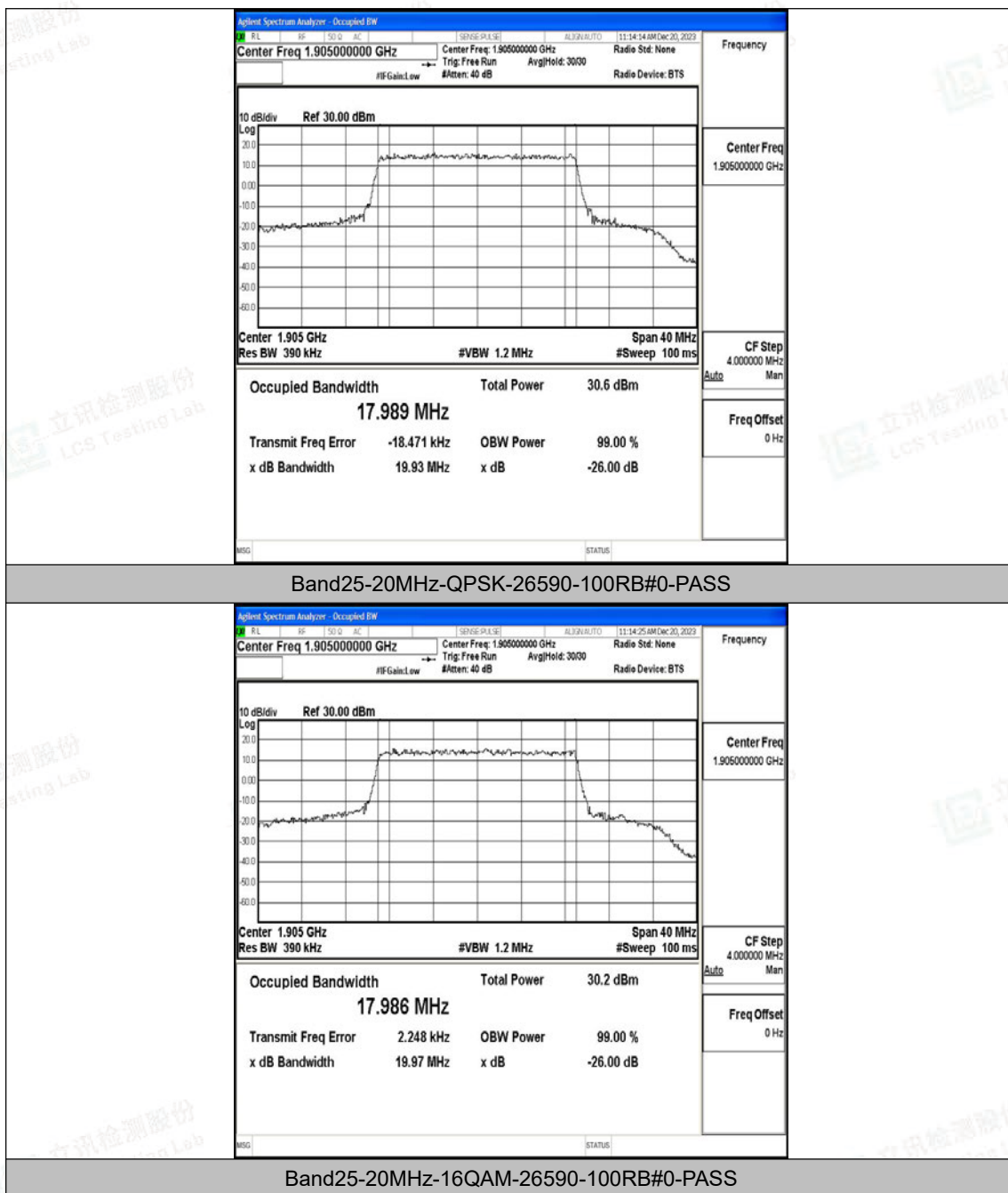
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## G.4 Band Edge

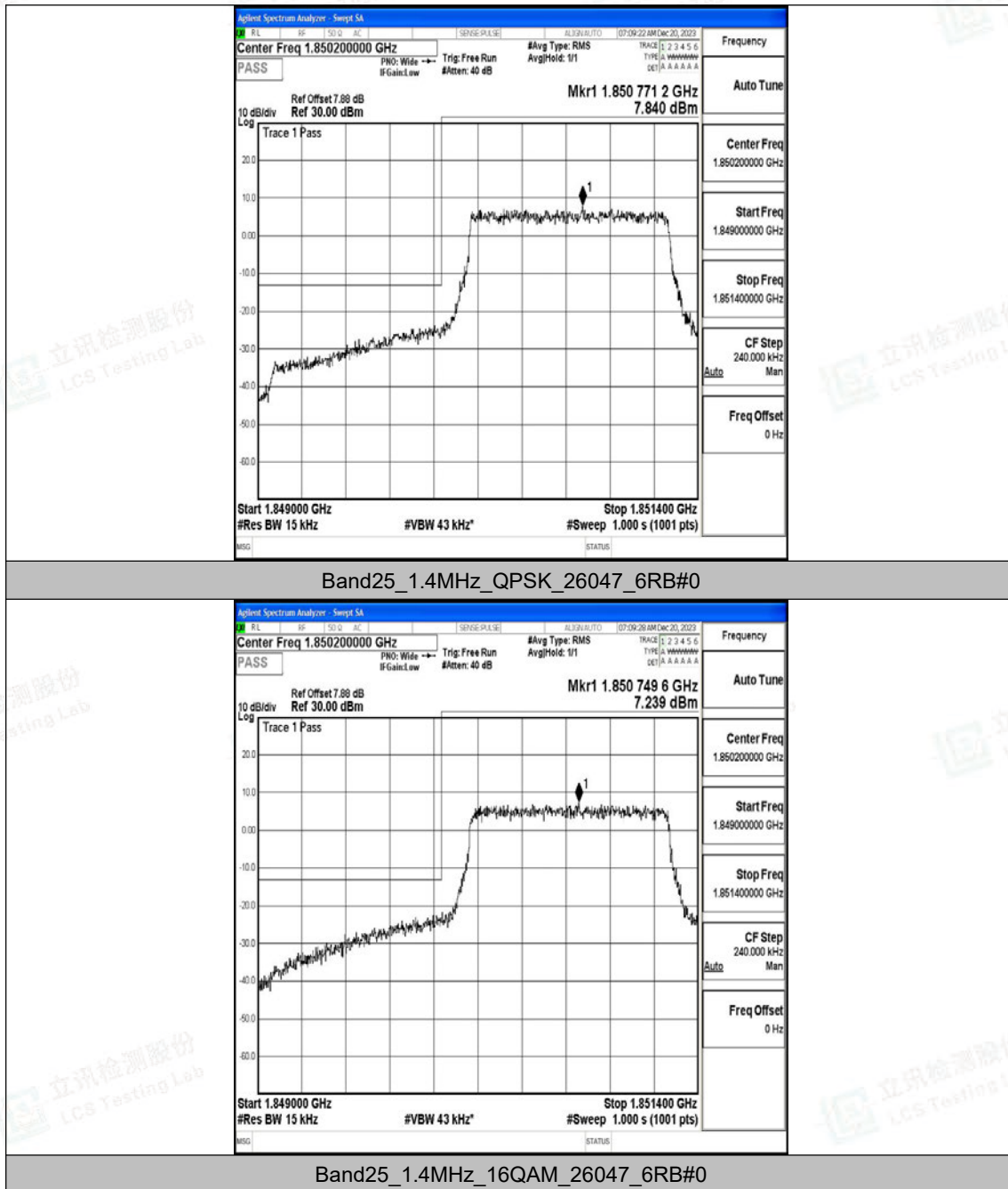
### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Peak Frequency | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|----------------|-------------|---------|
| Band25 | 1.4MHz    | QPSK       | 26047   | 6RB#0            | 1849.96        | -23.93      | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 6RB#0            | 1849.96        | -22.53      | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 6RB#0            | 1915.04        | -23.81      | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 6RB#0            | 1915.05        | -23.82      | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 15RB#0           | 1849.99        | -24.60      | PASS    |
| Band25 | 3MHz      | 16QAM      | 26055   | 15RB#0           | 1850.00        | -24.77      | PASS    |
| Band25 | 3MHz      | QPSK       | 26675   | 15RB#0           | 1915.01        | -24.25      | PASS    |
| Band25 | 3MHz      | 16QAM      | 26675   | 15RB#0           | 1915.02        | -25.71      | PASS    |
| Band25 | 5MHz      | QPSK       | 26065   | 25RB#0           | 1850.00        | -29.07      | PASS    |
| Band25 | 5MHz      | 16QAM      | 26065   | 25RB#0           | 1850.00        | -29.81      | PASS    |
| Band25 | 5MHz      | QPSK       | 26665   | 25RB#0           | 1915.00        | -27.26      | PASS    |
| Band25 | 5MHz      | 16QAM      | 26665   | 25RB#0           | 1915.01        | -29.04      | PASS    |
| Band25 | 10MHz     | QPSK       | 26090   | 50RB#0           | 1849.94        | -31.07      | PASS    |
| Band25 | 10MHz     | 16QAM      | 26090   | 50RB#0           | 1849.92        | -31.78      | PASS    |
| Band25 | 10MHz     | QPSK       | 26640   | 50RB#0           | 1915.03        | -28.77      | PASS    |
| Band25 | 10MHz     | 16QAM      | 26640   | 50RB#0           | 1915.02        | -30.61      | PASS    |
| Band25 | 15MHz     | QPSK       | 26115   | 75RB#0           | 1849.88        | -29.87      | PASS    |
| Band25 | 15MHz     | 16QAM      | 26115   | 75RB#0           | 1849.93        | -31.25      | PASS    |
| Band25 | 15MHz     | QPSK       | 26615   | 75RB#0           | 1915.01        | -27.94      | PASS    |
| Band25 | 15MHz     | 16QAM      | 26615   | 75RB#0           | 1915.06        | -30.26      | PASS    |
| Band25 | 20MHz     | QPSK       | 26140   | 100RB#0          | 1849.97        | -30.56      | PASS    |
| Band25 | 20MHz     | 16QAM      | 26140   | 100RB#0          | 1849.99        | -31.06      | PASS    |
| Band25 | 20MHz     | QPSK       | 26590   | 100RB#0          | 1915.03        | -28.37      | PASS    |
| Band25 | 20MHz     | 16QAM      | 26590   | 100RB#0          | 1915.08        | -29.95      | PASS    |





## Test Graphs

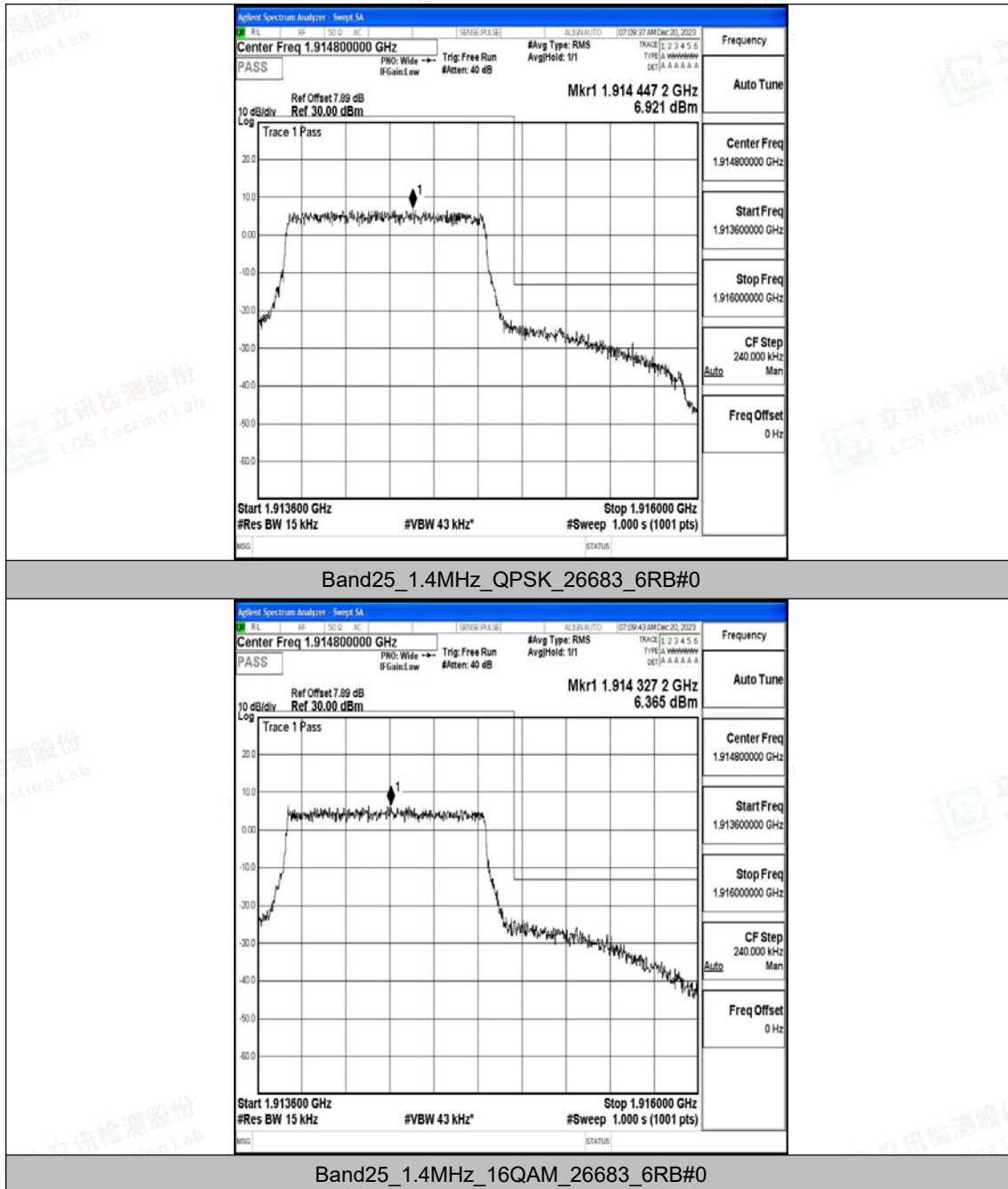


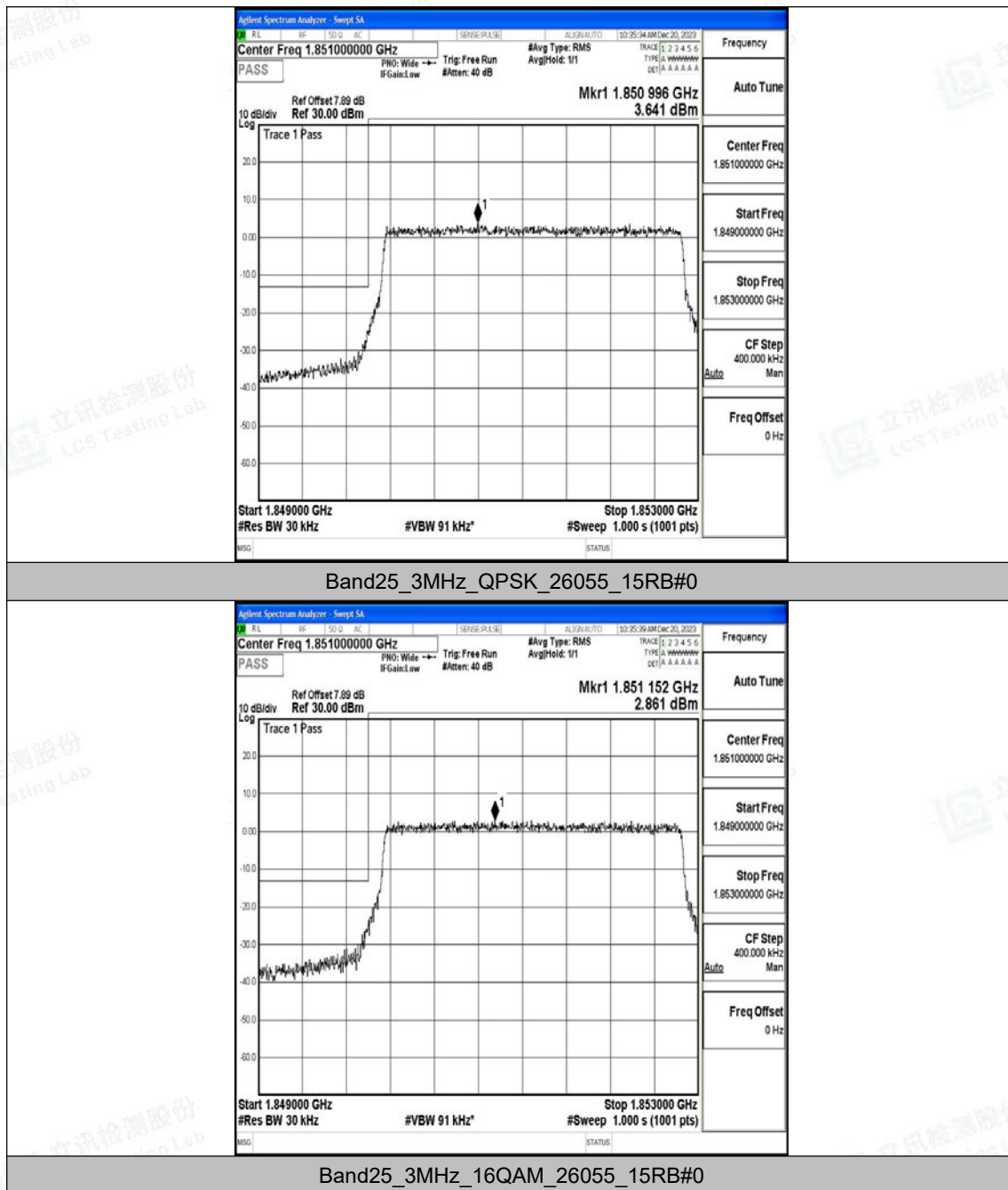
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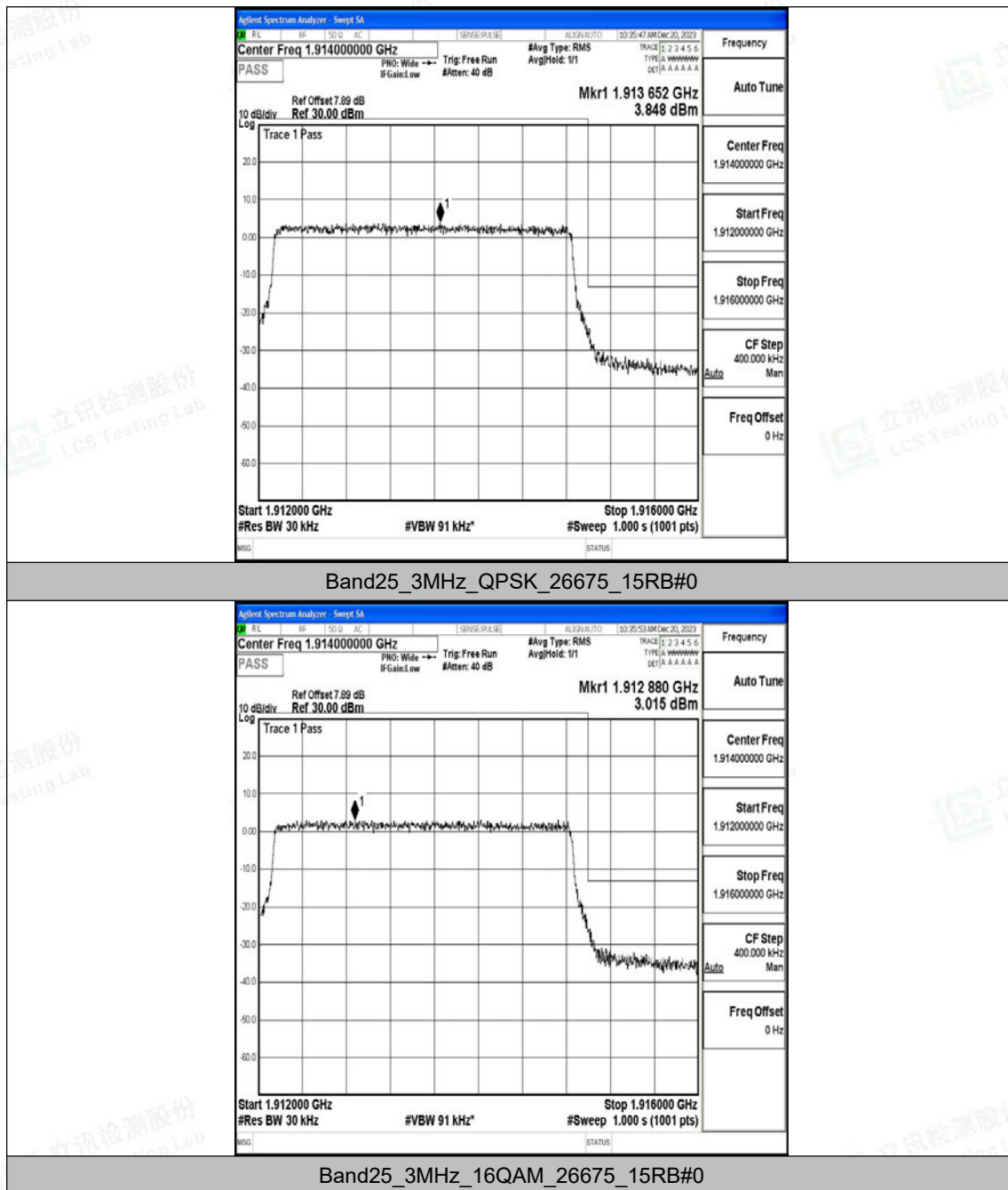
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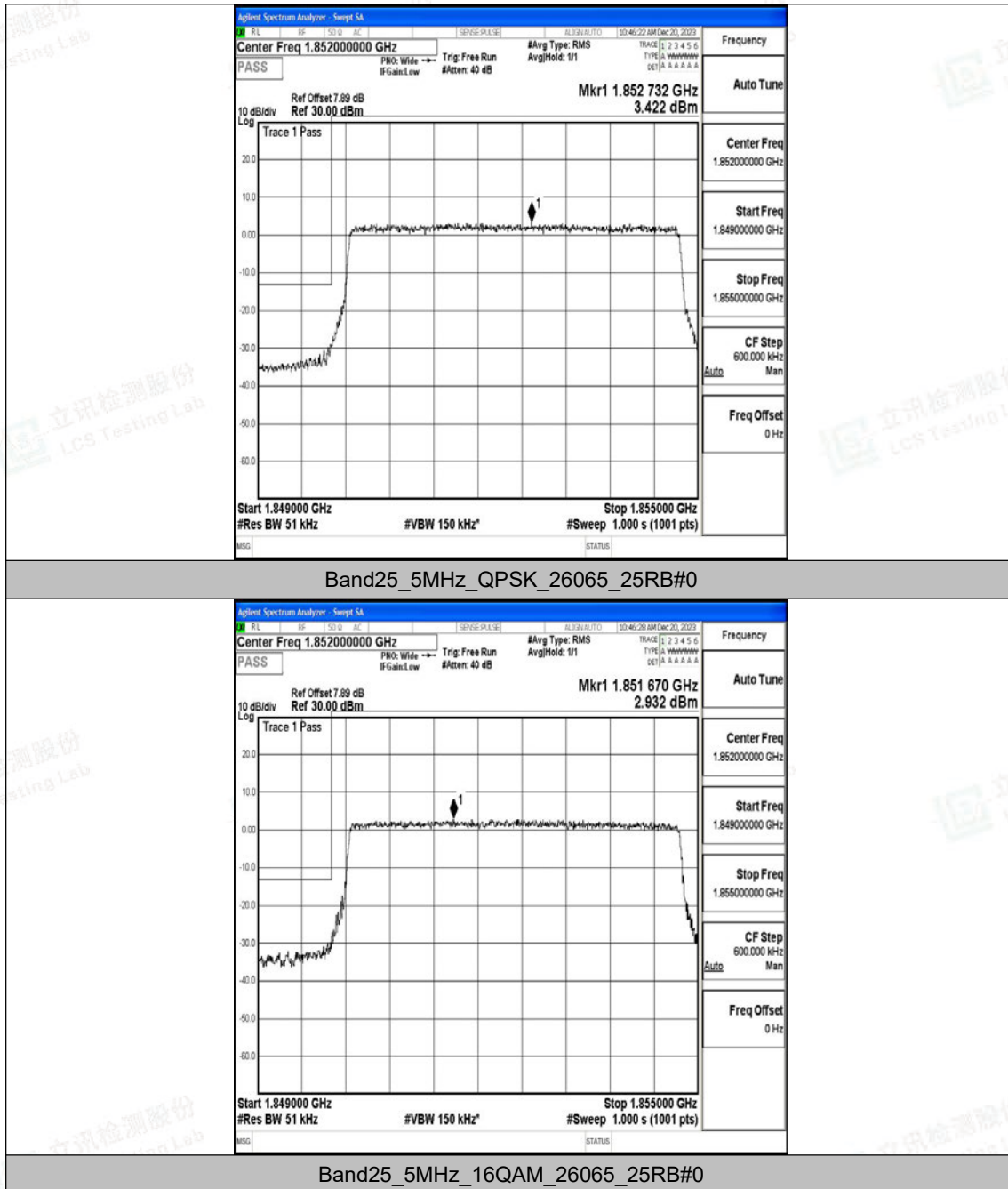
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

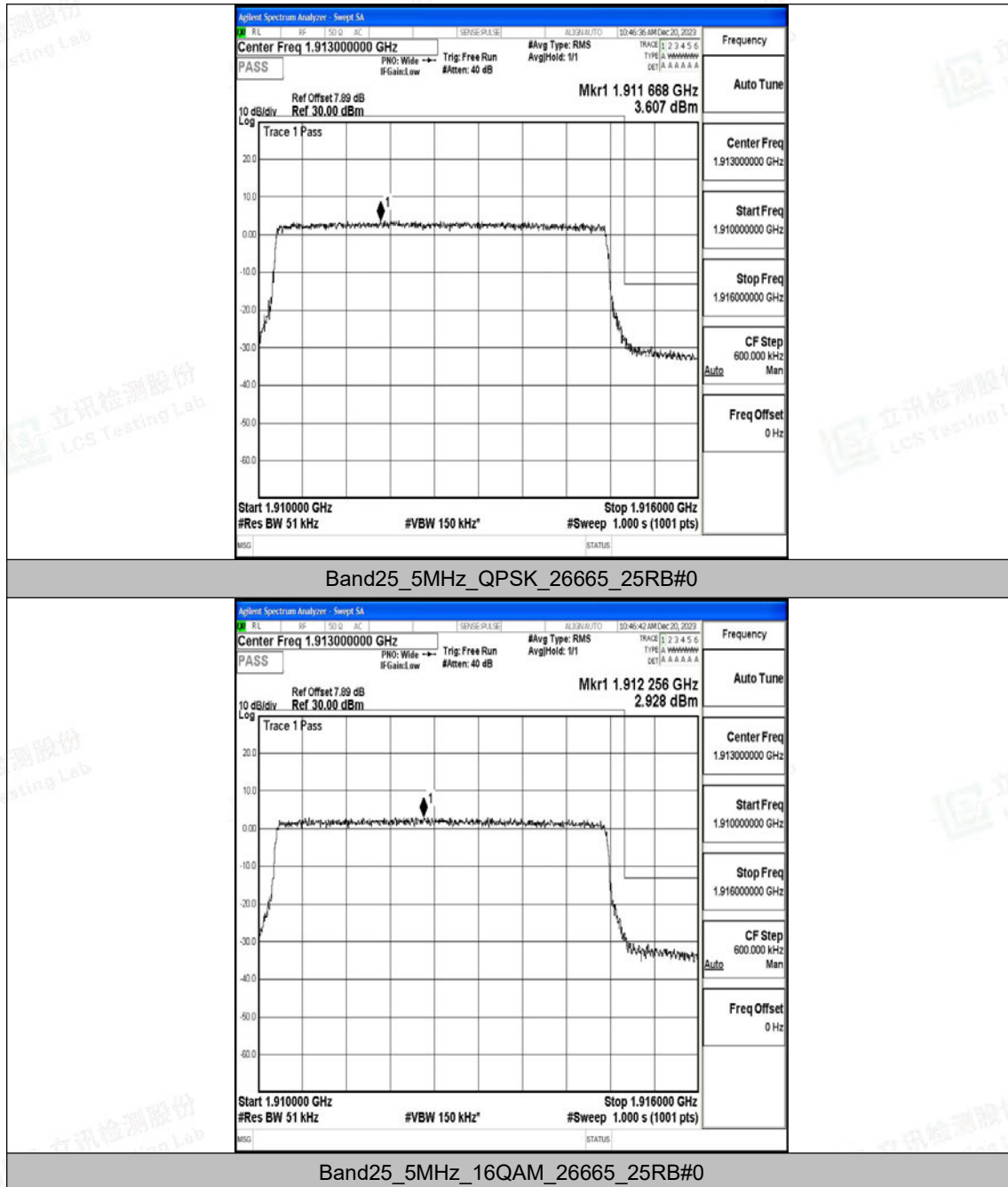
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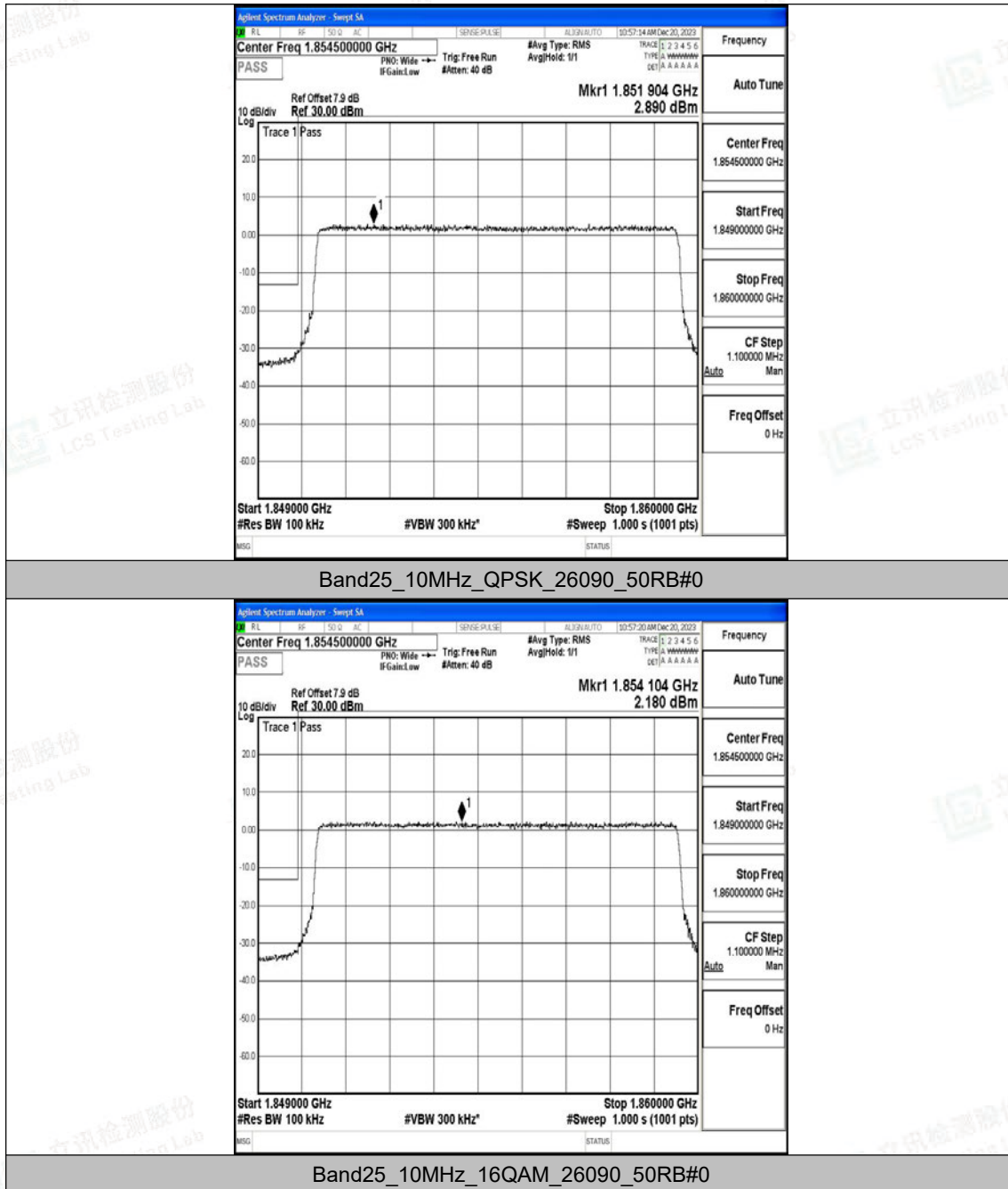


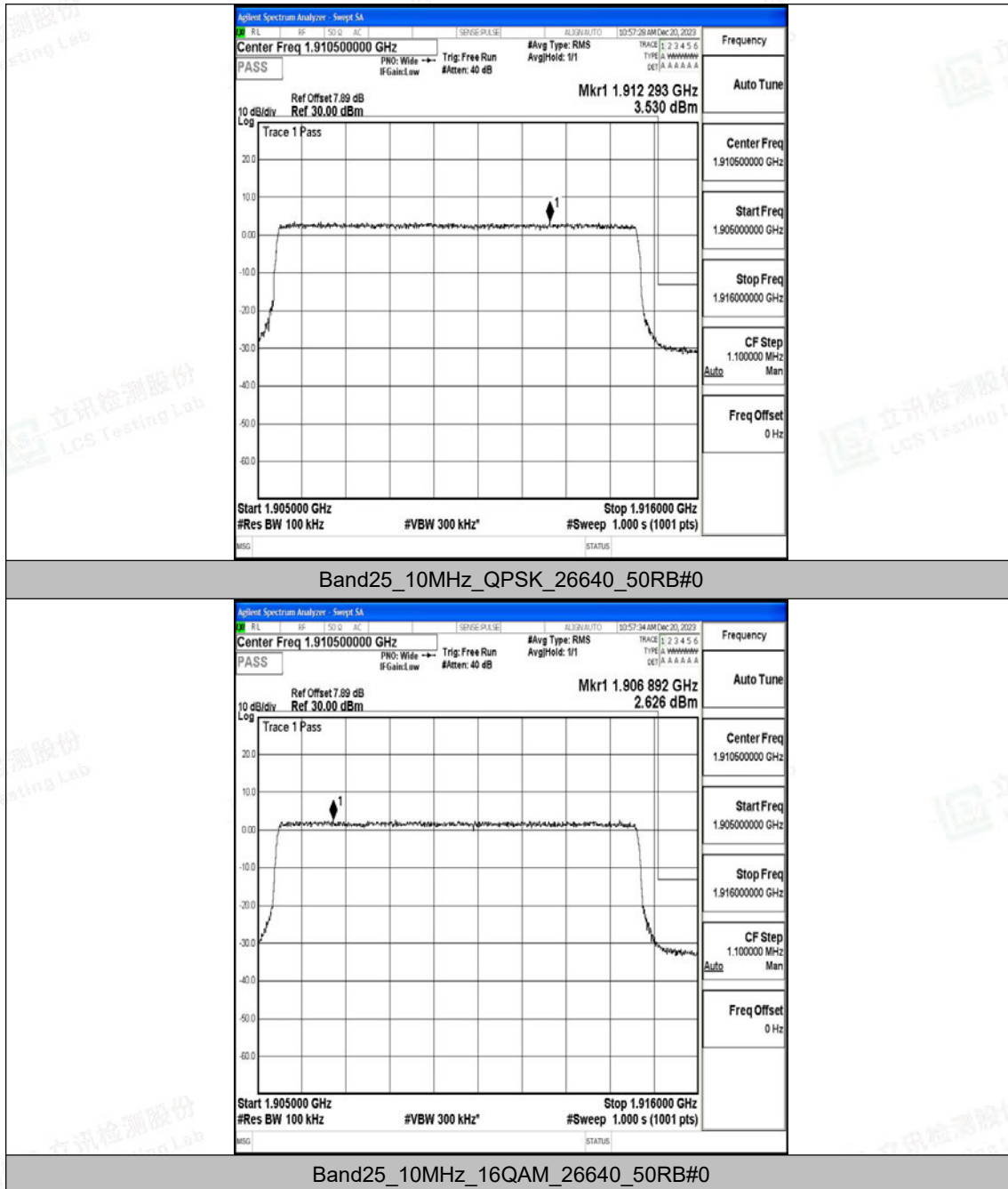


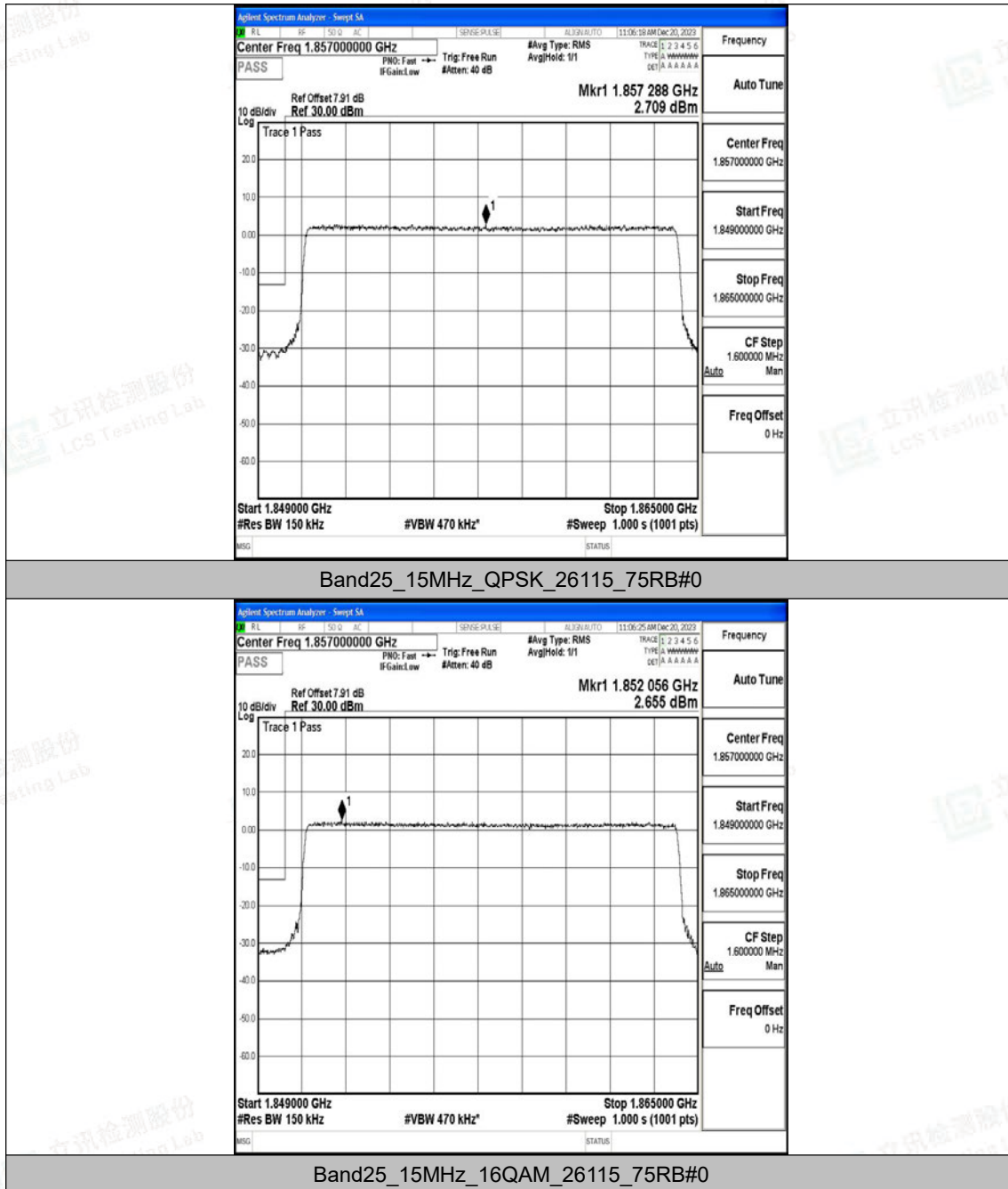


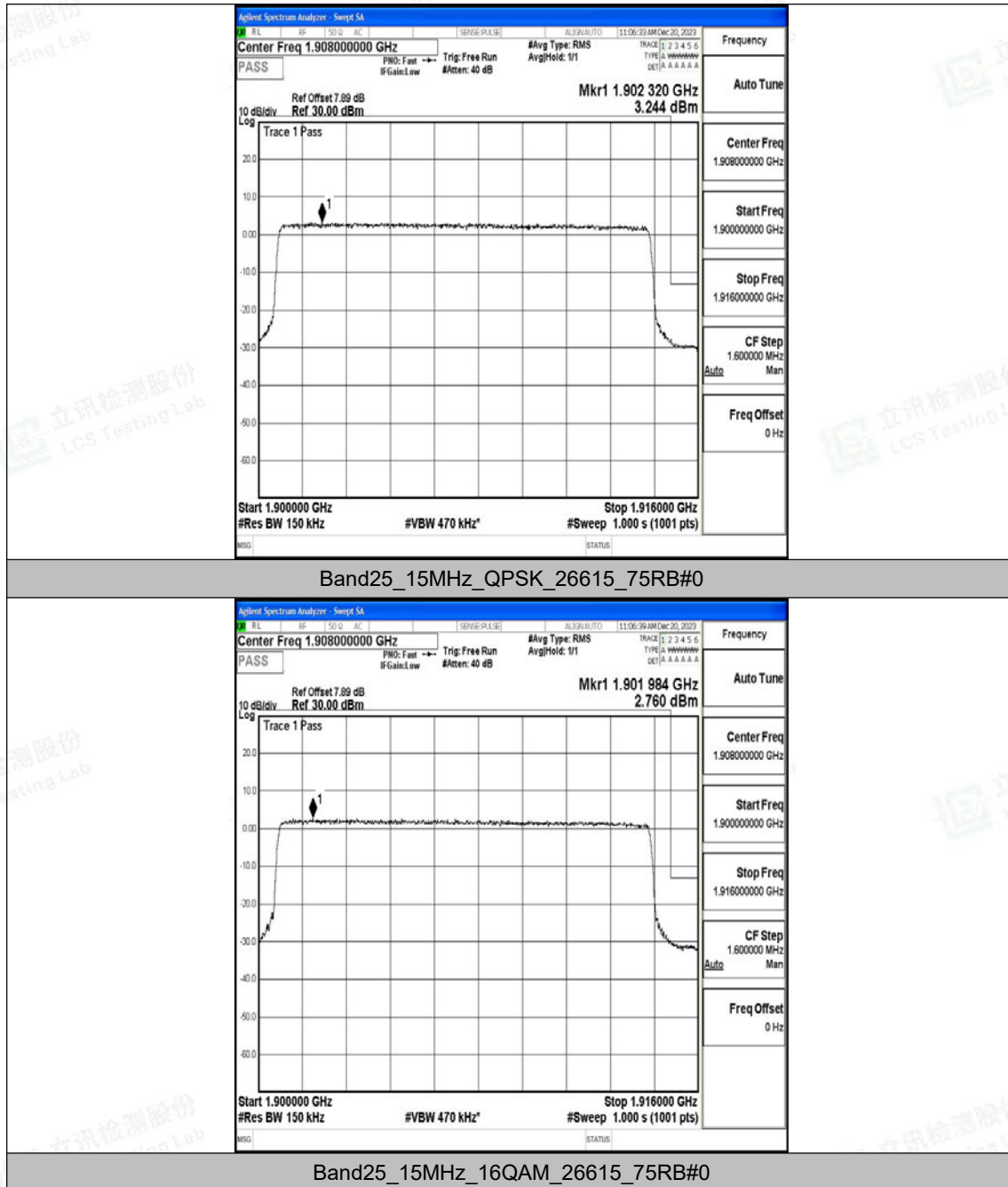


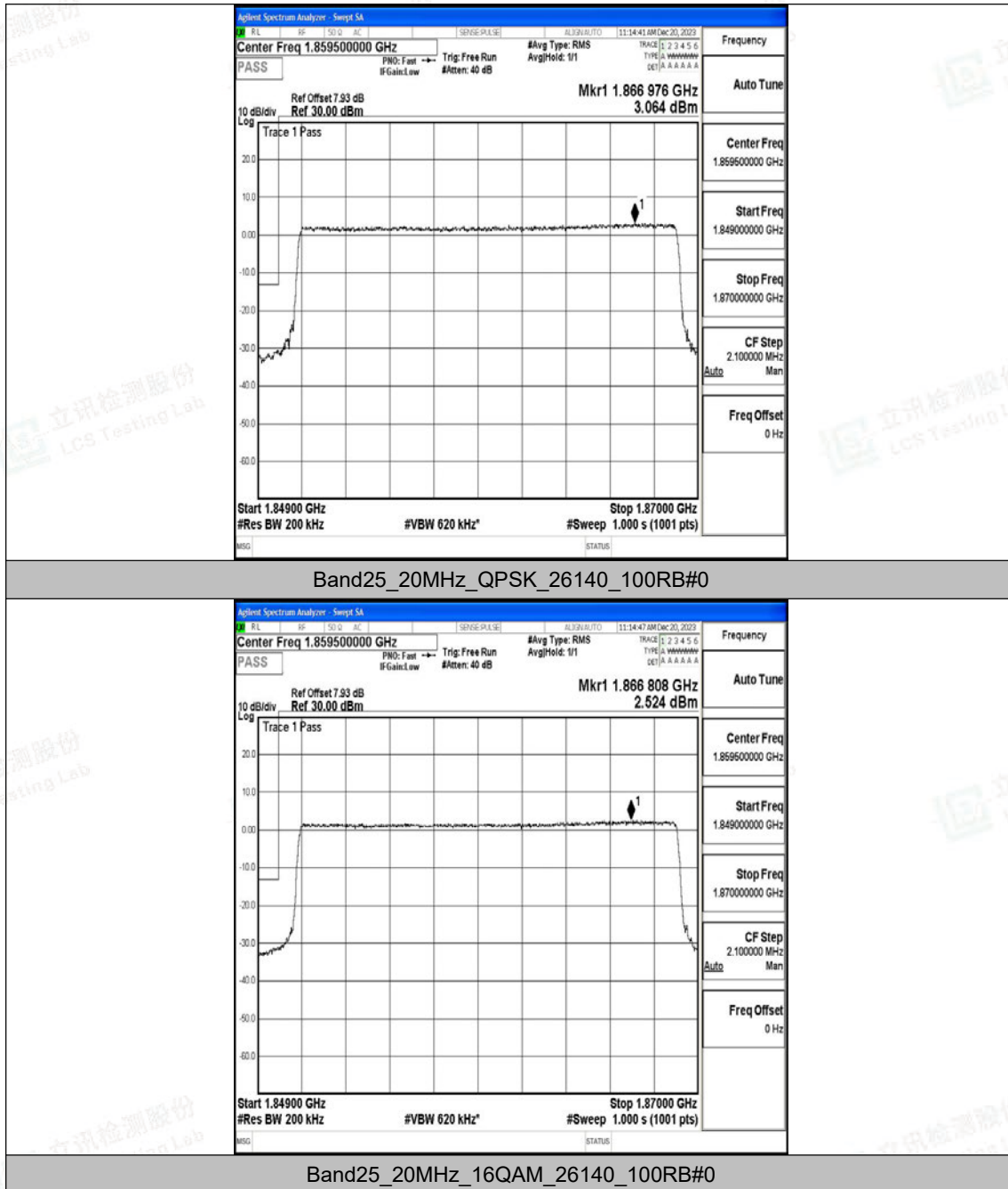










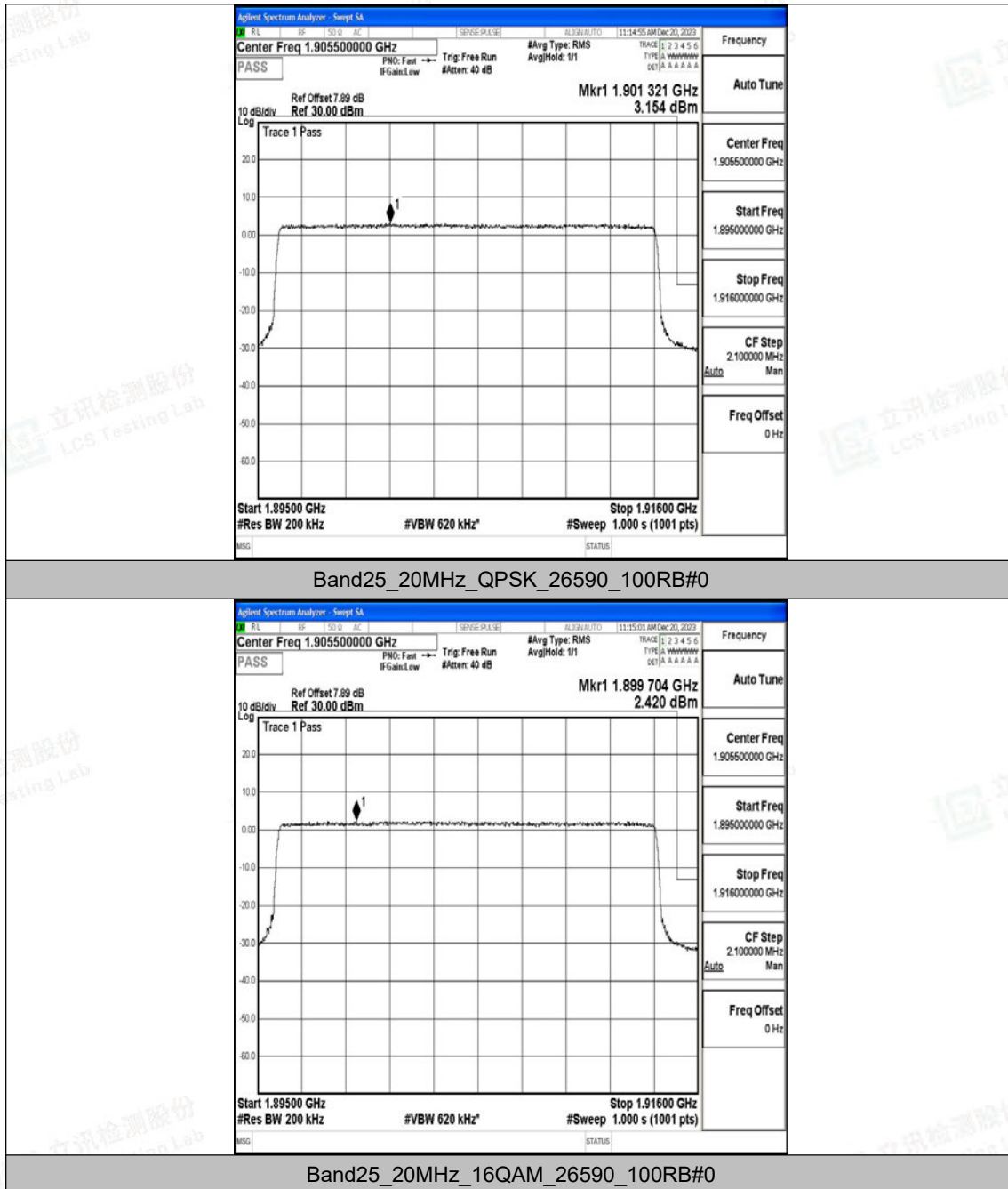


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## G.5 Conducted Spurious Emission

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-----------------|--------------|---------|
| Band25 | 1.4MHz    | QPSK       | 26047   | 1RB#0            | 0.009~0.15      | -57.96       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26047   | 1RB#0            | 0.15~30         | -52.74       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26047   | 1RB#0            | 30~1000         | -62.26       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26047   | 1RB#0            | 1000~3000       | -18.11       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26047   | 1RB#0            | 3000~20000      | -33.42       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 1RB#0            | 0.009~0.15      | -56.07       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 1RB#0            | 0.15~30         | -52.18       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 1RB#0            | 30~1000         | -62.29       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 1RB#0            | 1000~3000       | -20.98       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26047   | 1RB#0            | 3000~20000      | -33.01       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26365   | 1RB#0            | 0.009~0.15      | -57.70       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26365   | 1RB#0            | 0.15~30         | -52.43       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26365   | 1RB#0            | 30~1000         | -62.18       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26365   | 1RB#0            | 1000~3000       | -17.28       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26365   | 1RB#0            | 3000~20000      | -33.08       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26365   | 1RB#0            | 0.009~0.15      | -58.44       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26365   | 1RB#0            | 0.15~30         | -51.03       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26365   | 1RB#0            | 30~1000         | -62.06       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26365   | 1RB#0            | 1000~3000       | -18.99       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26365   | 1RB#0            | 3000~20000      | -33.44       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 1RB#0            | 0.009~0.15      | -55.66       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 1RB#0            | 0.15~30         | -51.02       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 1RB#0            | 30~1000         | -62.11       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 1RB#0            | 1000~3000       | -22.82       | PASS    |
| Band25 | 1.4MHz    | QPSK       | 26683   | 1RB#0            | 3000~20000      | -33.36       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 1RB#0            | 0.009~0.15      | -57.38       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 1RB#0            | 0.15~30         | -50.70       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 1RB#0            | 30~1000         | -62.12       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 1RB#0            | 1000~3000       | -21.70       | PASS    |
| Band25 | 1.4MHz    | 16QAM      | 26683   | 1RB#0            | 3000~20000      | -33.36       | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 1RB#0            | 0.009~0.15      | -58.29       | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 1RB#0            | 0.15~30         | -53.47       | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 1RB#0            | 30~1000         | -61.91       | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 1RB#0            | 1000~3000       | -29.88       | PASS    |
| Band25 | 3MHz      | QPSK       | 26055   | 1RB#0            | 3000~20000      | -33.32       | PASS    |



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