



## Appendix L: Test Data for E-UTRA Band 66

**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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## L.1 Conducted Output Power Data

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|---------|
| Band66 | 1.4MHz    | QPSK       | 131979  | 6RB#0            | 20.11       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6RB#0            | 19.36       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6RB#0            | 20.47       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 6RB#0            | 19.85       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6RB#0            | 21.97       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 6RB#0            | 21.25       | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 15RB#0           | 22.35       | PASS    |
| Band66 | 3MHz      | 16QAM      | 131987  | 15RB#0           | 21.67       | PASS    |
| Band66 | 3MHz      | QPSK       | 132322  | 15RB#0           | 22.26       | PASS    |
| Band66 | 3MHz      | 16QAM      | 132322  | 15RB#0           | 21.36       | PASS    |
| Band66 | 3MHz      | QPSK       | 132657  | 15RB#0           | 22.00       | PASS    |
| Band66 | 3MHz      | 16QAM      | 132657  | 15RB#0           | 21.32       | PASS    |
| Band66 | 5MHz      | QPSK       | 131997  | 25RB#0           | 22.31       | PASS    |
| Band66 | 5MHz      | 16QAM      | 131997  | 25RB#0           | 21.78       | PASS    |
| Band66 | 5MHz      | QPSK       | 132322  | 25RB#0           | 22.19       | PASS    |
| Band66 | 5MHz      | 16QAM      | 132322  | 25RB#0           | 21.59       | PASS    |
| Band66 | 5MHz      | QPSK       | 132647  | 25RB#0           | 22.02       | PASS    |
| Band66 | 5MHz      | 16QAM      | 132647  | 25RB#0           | 21.35       | PASS    |
| Band66 | 10MHz     | QPSK       | 132022  | 50RB#0           | 22.30       | PASS    |
| Band66 | 10MHz     | 16QAM      | 132022  | 50RB#0           | 21.68       | PASS    |
| Band66 | 10MHz     | QPSK       | 132322  | 50RB#0           | 22.22       | PASS    |
| Band66 | 10MHz     | 16QAM      | 132322  | 50RB#0           | 21.54       | PASS    |
| Band66 | 10MHz     | QPSK       | 132622  | 50RB#0           | 22.09       | PASS    |
| Band66 | 10MHz     | 16QAM      | 132622  | 50RB#0           | 21.38       | PASS    |
| Band66 | 15MHz     | QPSK       | 132047  | 75RB#0           | 22.23       | PASS    |
| Band66 | 15MHz     | 16QAM      | 132047  | 75RB#0           | 21.60       | PASS    |
| Band66 | 15MHz     | QPSK       | 132322  | 75RB#0           | 22.17       | PASS    |
| Band66 | 15MHz     | 16QAM      | 132322  | 75RB#0           | 21.57       | PASS    |
| Band66 | 15MHz     | QPSK       | 132597  | 75RB#0           | 22.07       | PASS    |
| Band66 | 15MHz     | 16QAM      | 132597  | 75RB#0           | 21.38       | PASS    |
| Band66 | 20MHz     | QPSK       | 132072  | 100RB#0          | 22.18       | PASS    |
| Band66 | 20MHz     | 16QAM      | 132072  | 100RB#0          | 21.50       | PASS    |
| Band66 | 20MHz     | QPSK       | 132322  | 100RB#0          | 22.14       | PASS    |
| Band66 | 20MHz     | 16QAM      | 132322  | 100RB#0          | 21.60       | PASS    |
| Band66 | 20MHz     | QPSK       | 132572  | 100RB#0          | 22.14       | PASS    |
| Band66 | 20MHz     | 16QAM      | 132572  | 100RB#0          | 21.43       | PASS    |



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

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band66 | 1.4MHz    | QPSK       | 131979  | 6RB#0            | 4.33       | 13        | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6RB#0            | 4.93       | 13        | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6RB#0            | 4.26       | 13        | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 6RB#0            | 4.87       | 13        | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6RB#0            | 4.00       | 13        | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 6RB#0            | 4.72       | 13        | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 15RB#0           | 4.35       | 13        | PASS    |
| Band66 | 3MHz      | 16QAM      | 131987  | 15RB#0           | 4.95       | 13        | PASS    |
| Band66 | 3MHz      | QPSK       | 132322  | 15RB#0           | 4.19       | 13        | PASS    |
| Band66 | 3MHz      | 16QAM      | 132322  | 15RB#0           | 4.85       | 13        | PASS    |
| Band66 | 3MHz      | QPSK       | 132657  | 15RB#0           | 4.14       | 13        | PASS    |
| Band66 | 3MHz      | 16QAM      | 132657  | 15RB#0           | 4.86       | 13        | PASS    |
| Band66 | 5MHz      | QPSK       | 131997  | 25RB#0           | 4.88       | 13        | PASS    |
| Band66 | 5MHz      | 16QAM      | 131997  | 25RB#0           | 5.41       | 13        | PASS    |
| Band66 | 5MHz      | QPSK       | 132322  | 25RB#0           | 4.72       | 13        | PASS    |
| Band66 | 5MHz      | 16QAM      | 132322  | 25RB#0           | 5.28       | 13        | PASS    |
| Band66 | 5MHz      | QPSK       | 132647  | 25RB#0           | 4.79       | 13        | PASS    |
| Band66 | 5MHz      | 16QAM      | 132647  | 25RB#0           | 5.42       | 13        | PASS    |
| Band66 | 10MHz     | QPSK       | 132022  | 50RB#0           | 5.07       | 13        | PASS    |
| Band66 | 10MHz     | 16QAM      | 132022  | 50RB#0           | 5.70       | 13        | PASS    |
| Band66 | 10MHz     | QPSK       | 132322  | 50RB#0           | 4.90       | 13        | PASS    |
| Band66 | 10MHz     | 16QAM      | 132322  | 50RB#0           | 5.53       | 13        | PASS    |
| Band66 | 10MHz     | QPSK       | 132622  | 50RB#0           | 5.27       | 13        | PASS    |
| Band66 | 10MHz     | 16QAM      | 132622  | 50RB#0           | 5.92       | 13        | PASS    |
| Band66 | 15MHz     | QPSK       | 132047  | 75RB#0           | 5.35       | 13        | PASS    |
| Band66 | 15MHz     | 16QAM      | 132047  | 75RB#0           | 5.80       | 13        | PASS    |
| Band66 | 15MHz     | QPSK       | 132322  | 75RB#0           | 5.04       | 13        | PASS    |
| Band66 | 15MHz     | 16QAM      | 132322  | 75RB#0           | 5.51       | 13        | PASS    |
| Band66 | 15MHz     | QPSK       | 132597  | 75RB#0           | 5.46       | 13        | PASS    |
| Band66 | 15MHz     | 16QAM      | 132597  | 75RB#0           | 5.97       | 13        | PASS    |
| Band66 | 20MHz     | QPSK       | 132072  | 100RB#0          | 5.14       | 13        | PASS    |
| Band66 | 20MHz     | 16QAM      | 132072  | 100RB#0          | 5.72       | 13        | PASS    |
| Band66 | 20MHz     | QPSK       | 132322  | 100RB#0          | 4.77       | 13        | PASS    |
| Band66 | 20MHz     | 16QAM      | 132322  | 100RB#0          | 5.40       | 13        | PASS    |
| Band66 | 20MHz     | QPSK       | 132572  | 100RB#0          | 5.17       | 13        | PASS    |
| Band66 | 20MHz     | 16QAM      | 132572  | 100RB#0          | 5.84       | 13        | PASS    |



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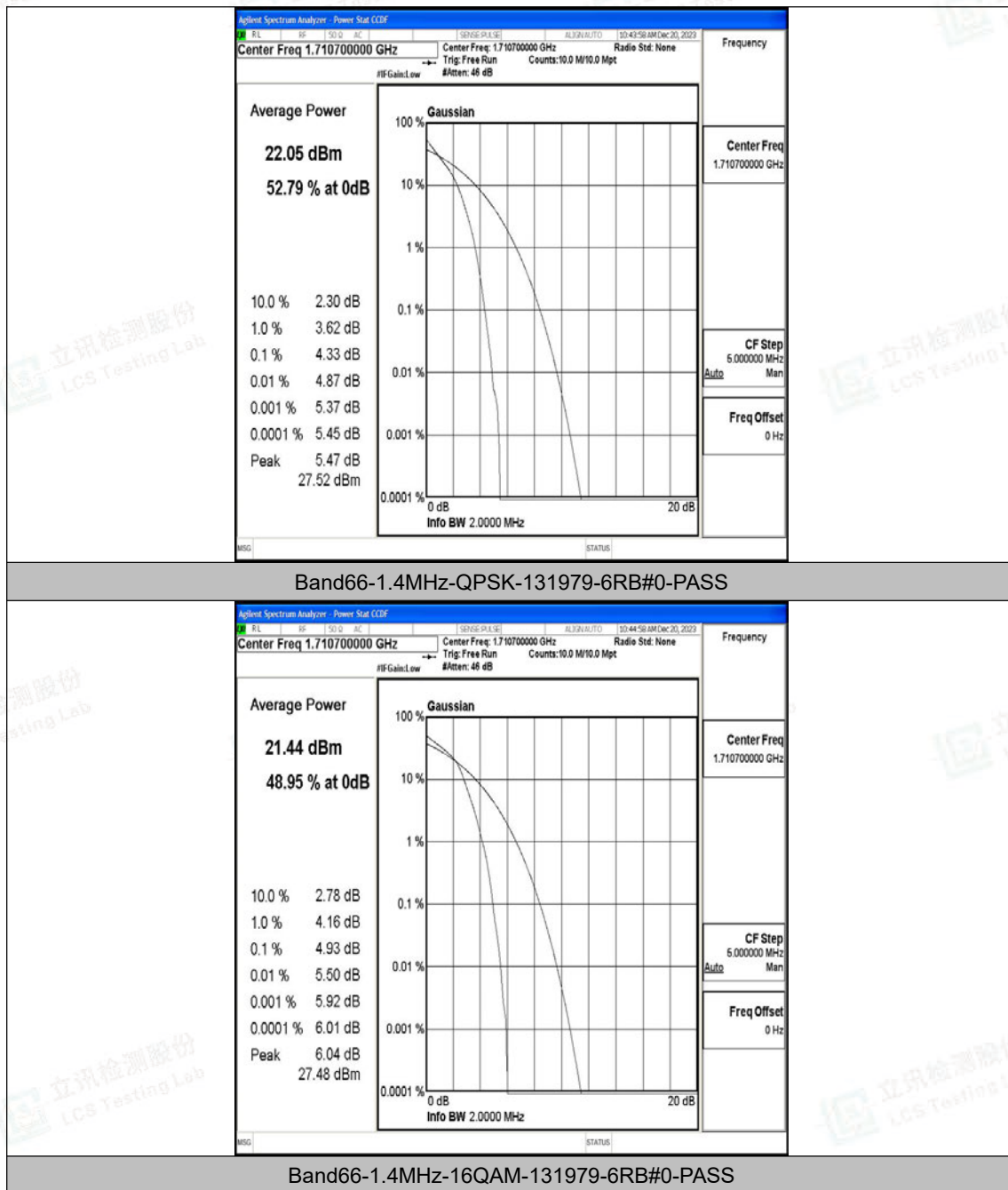
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## Test Graphs

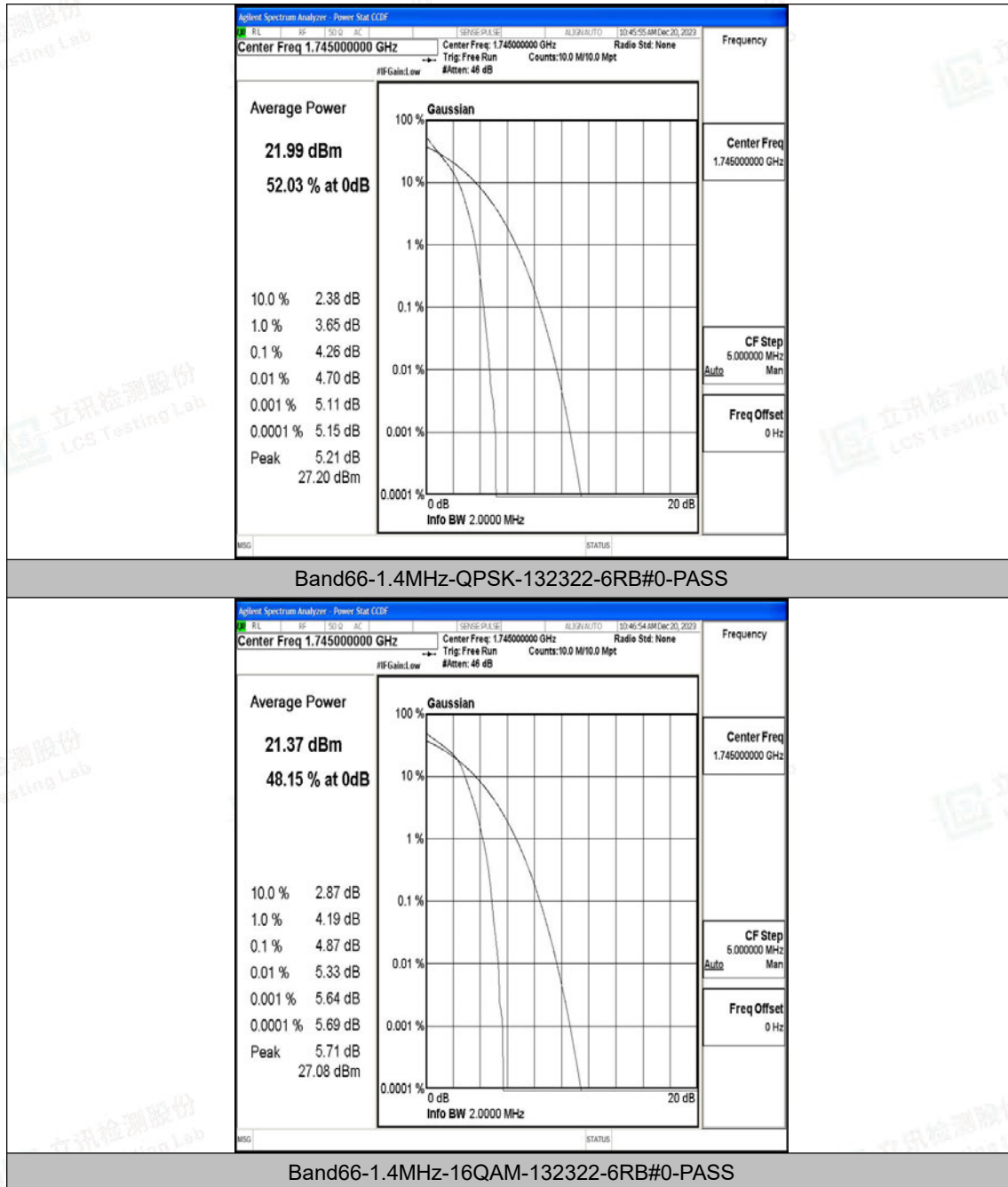


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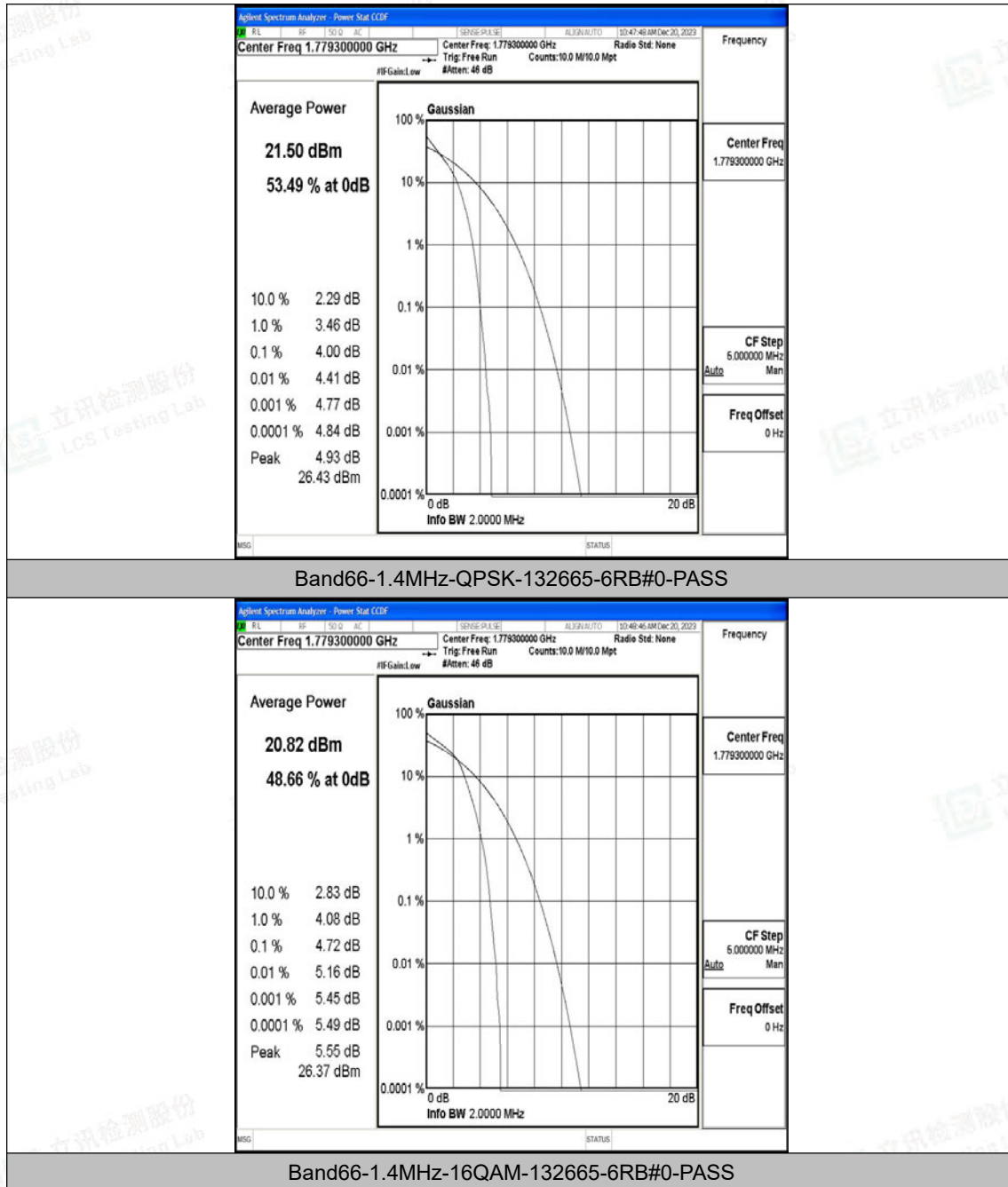
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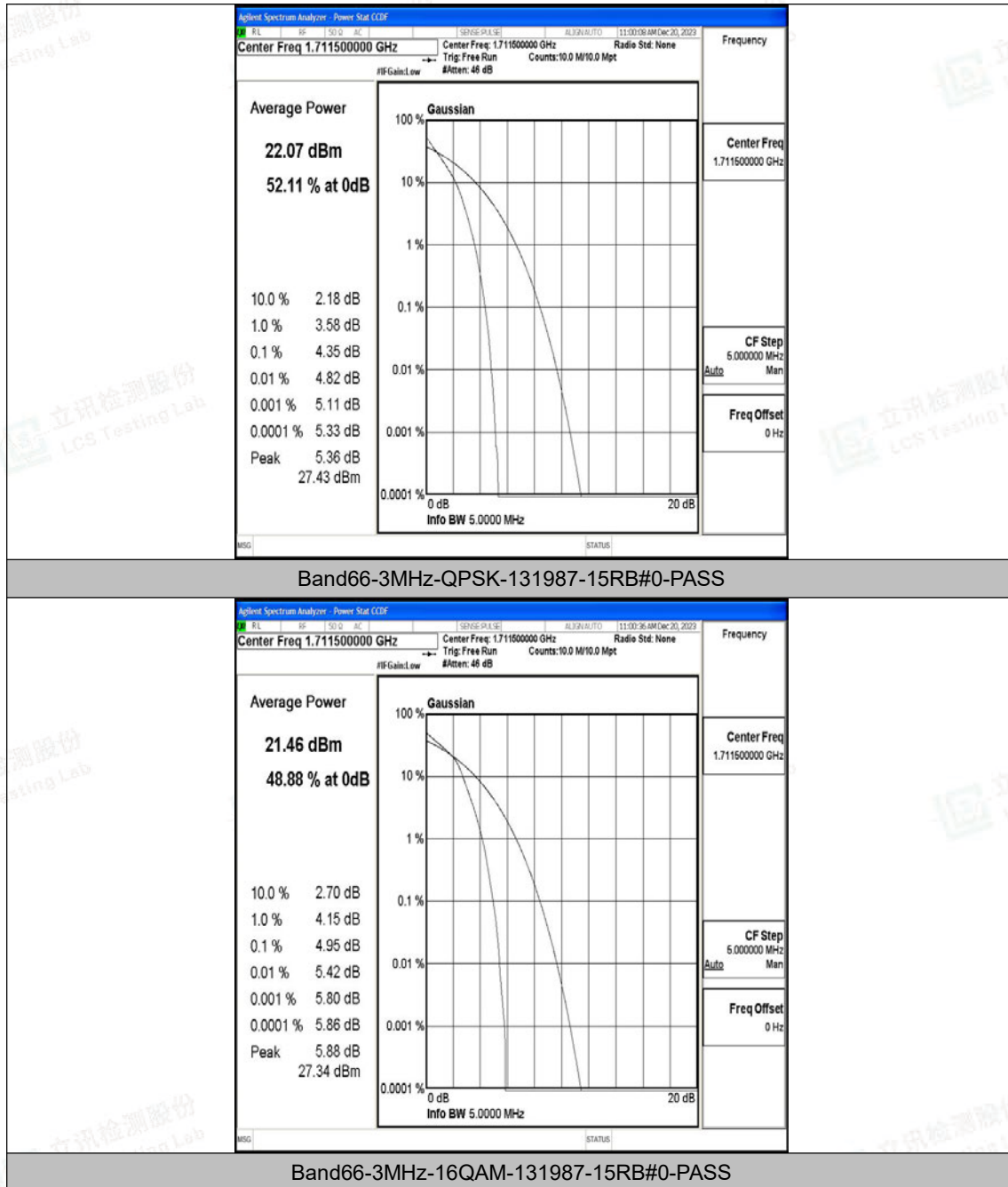
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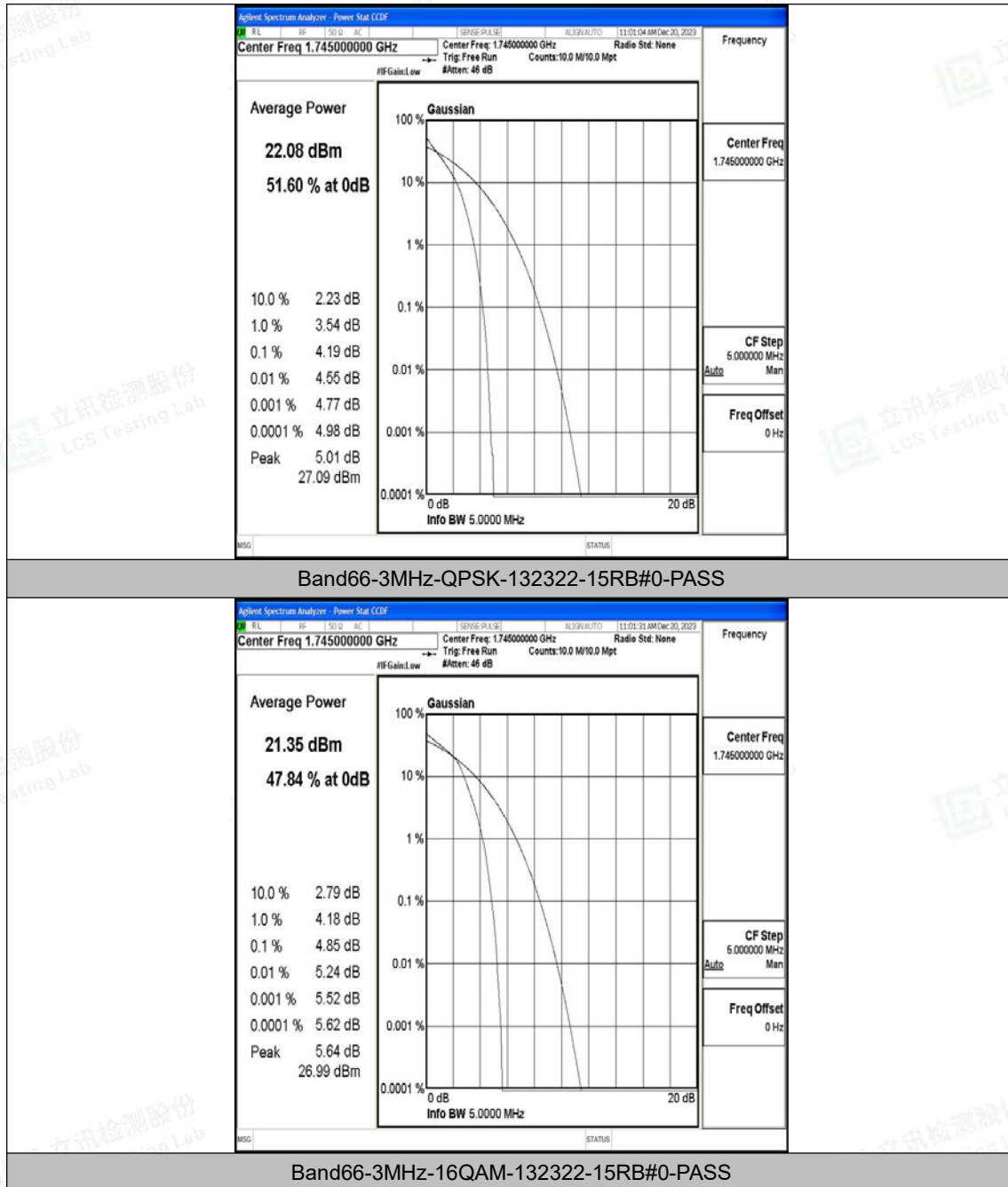


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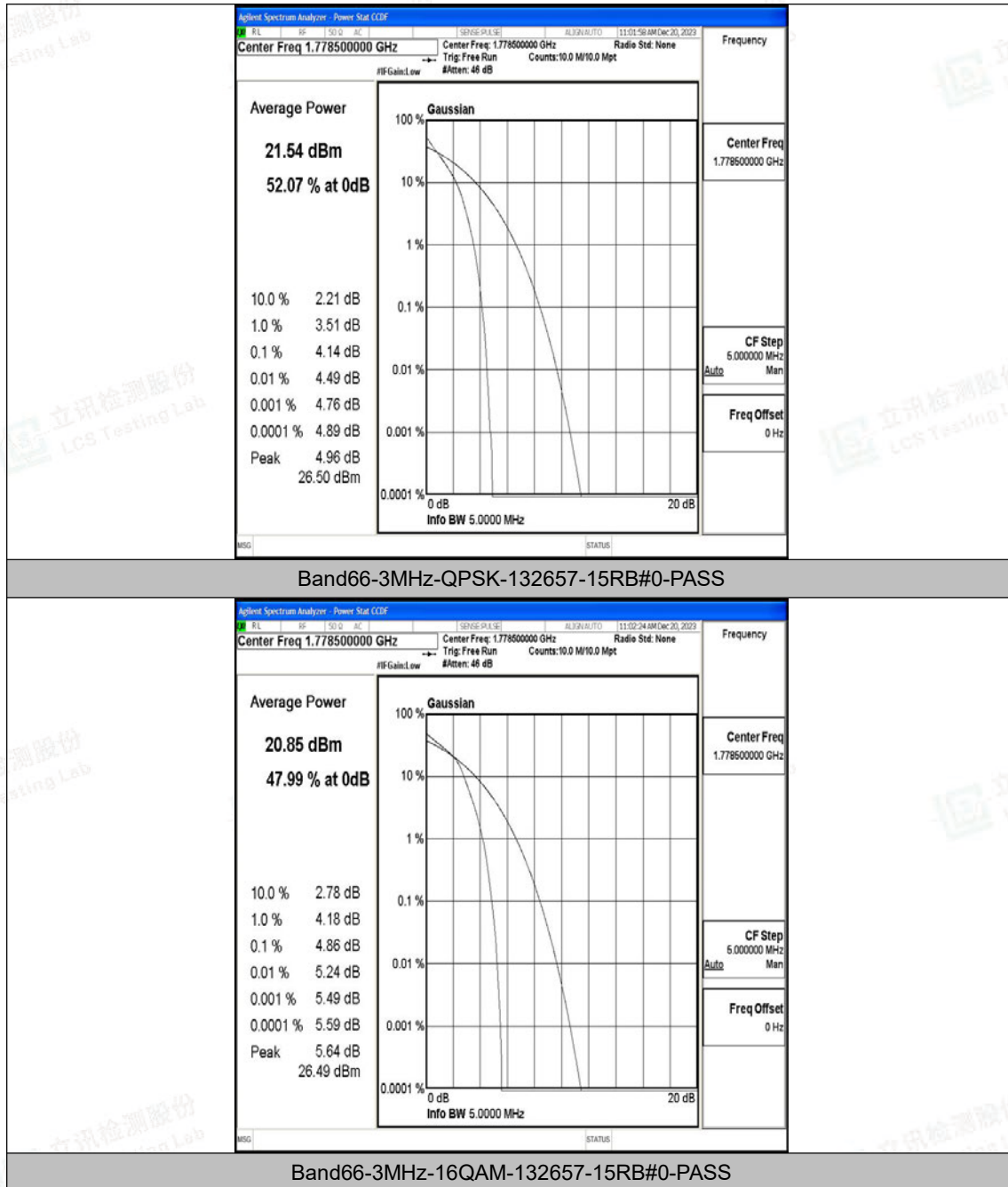
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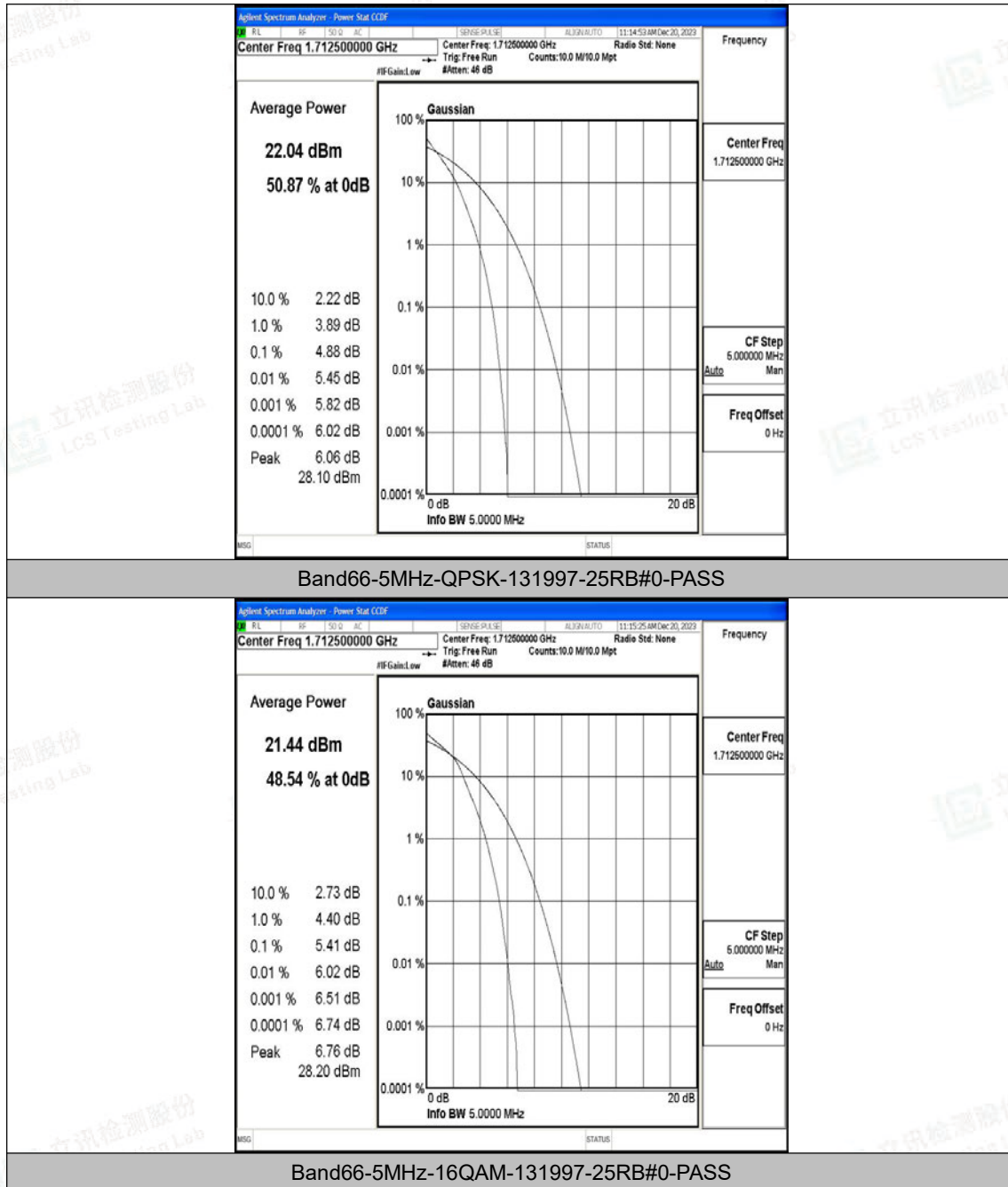
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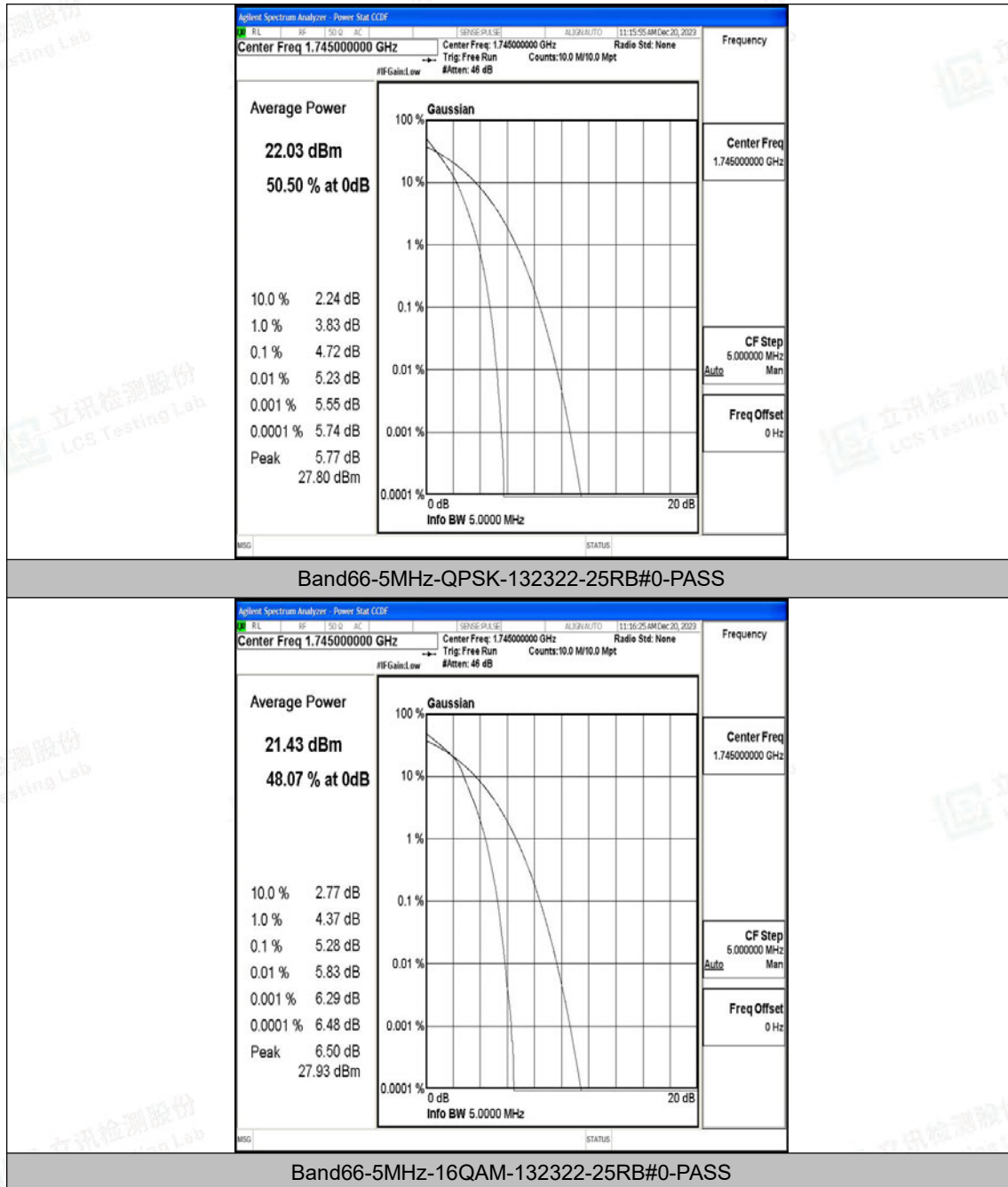


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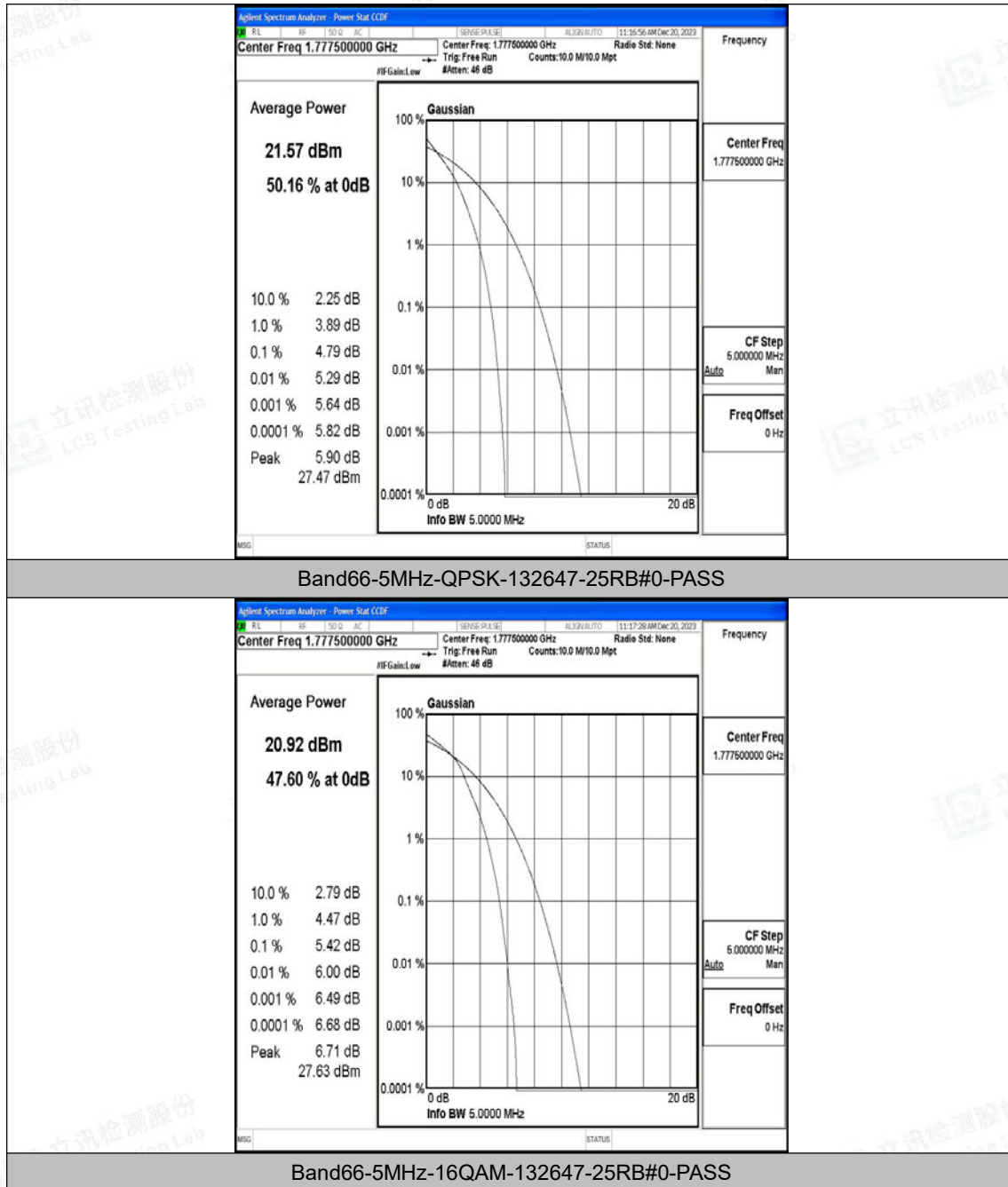


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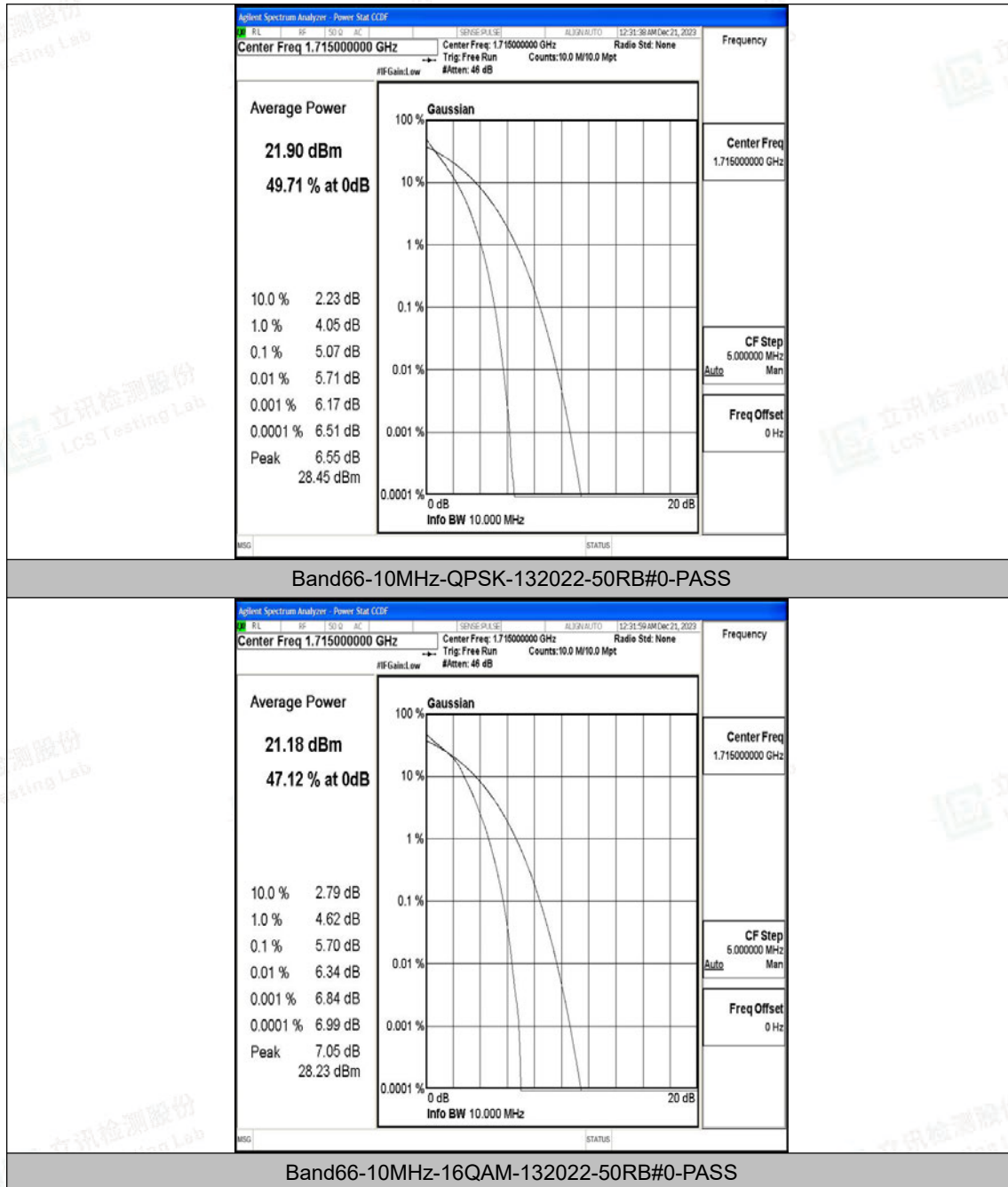


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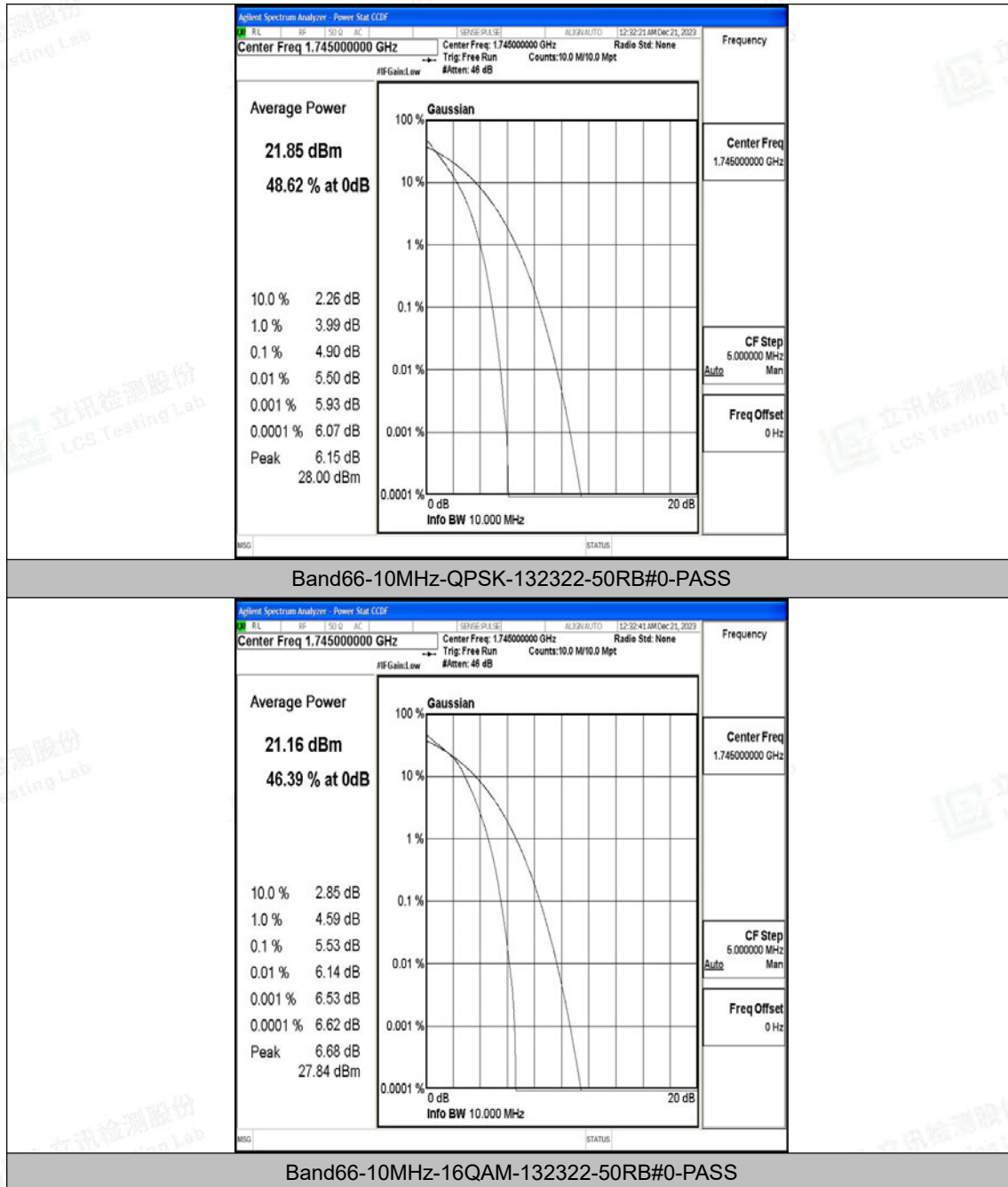
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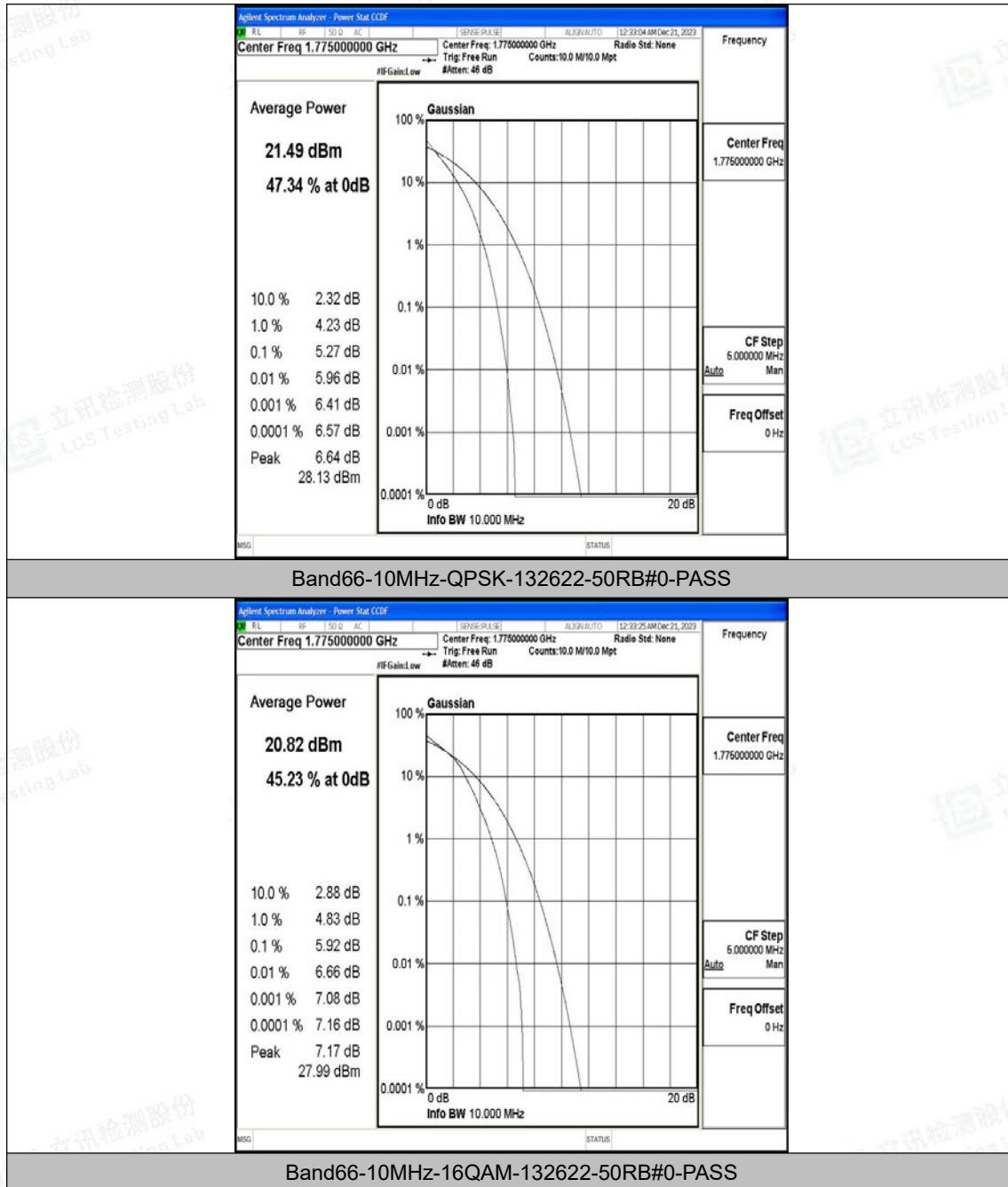


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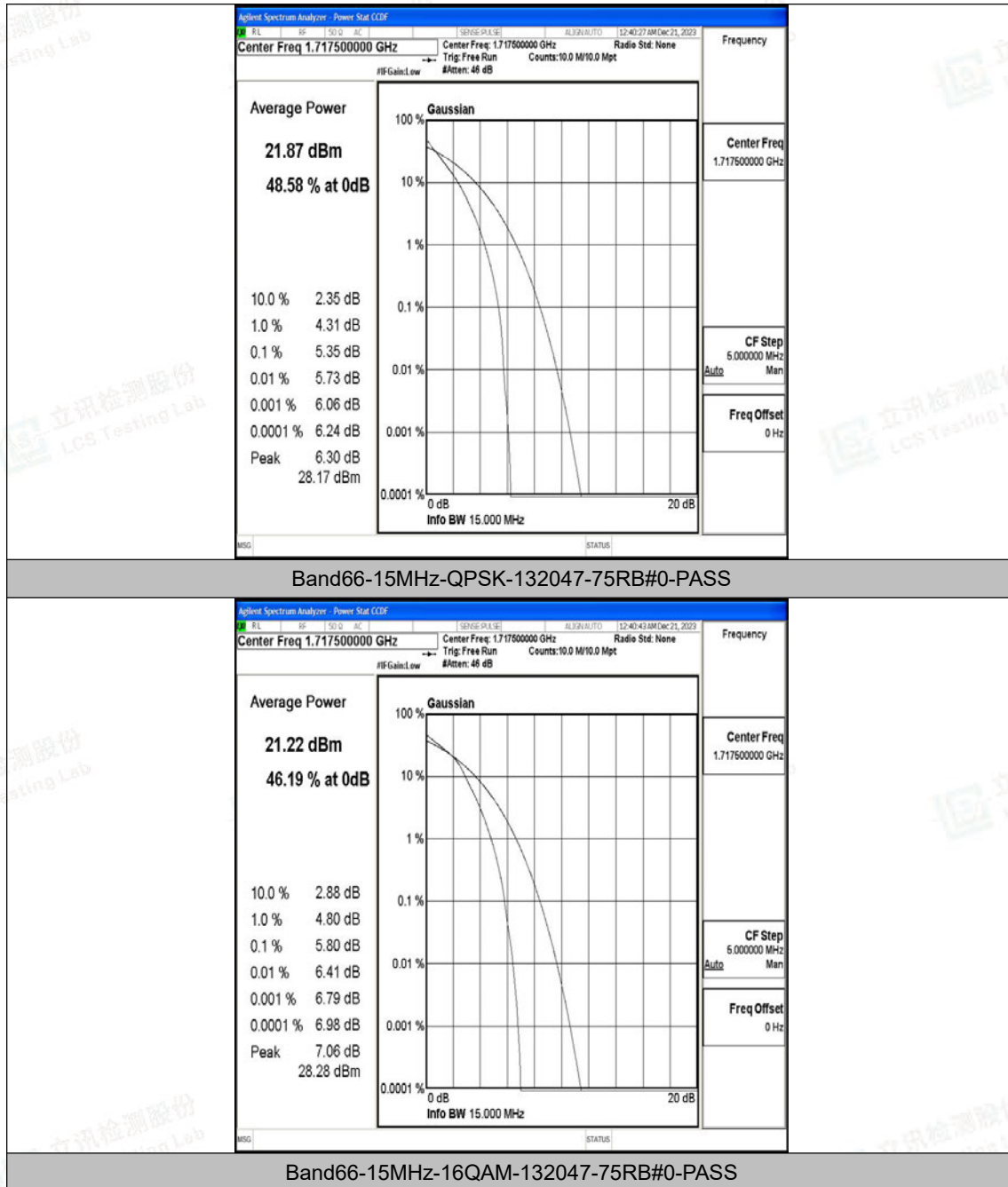


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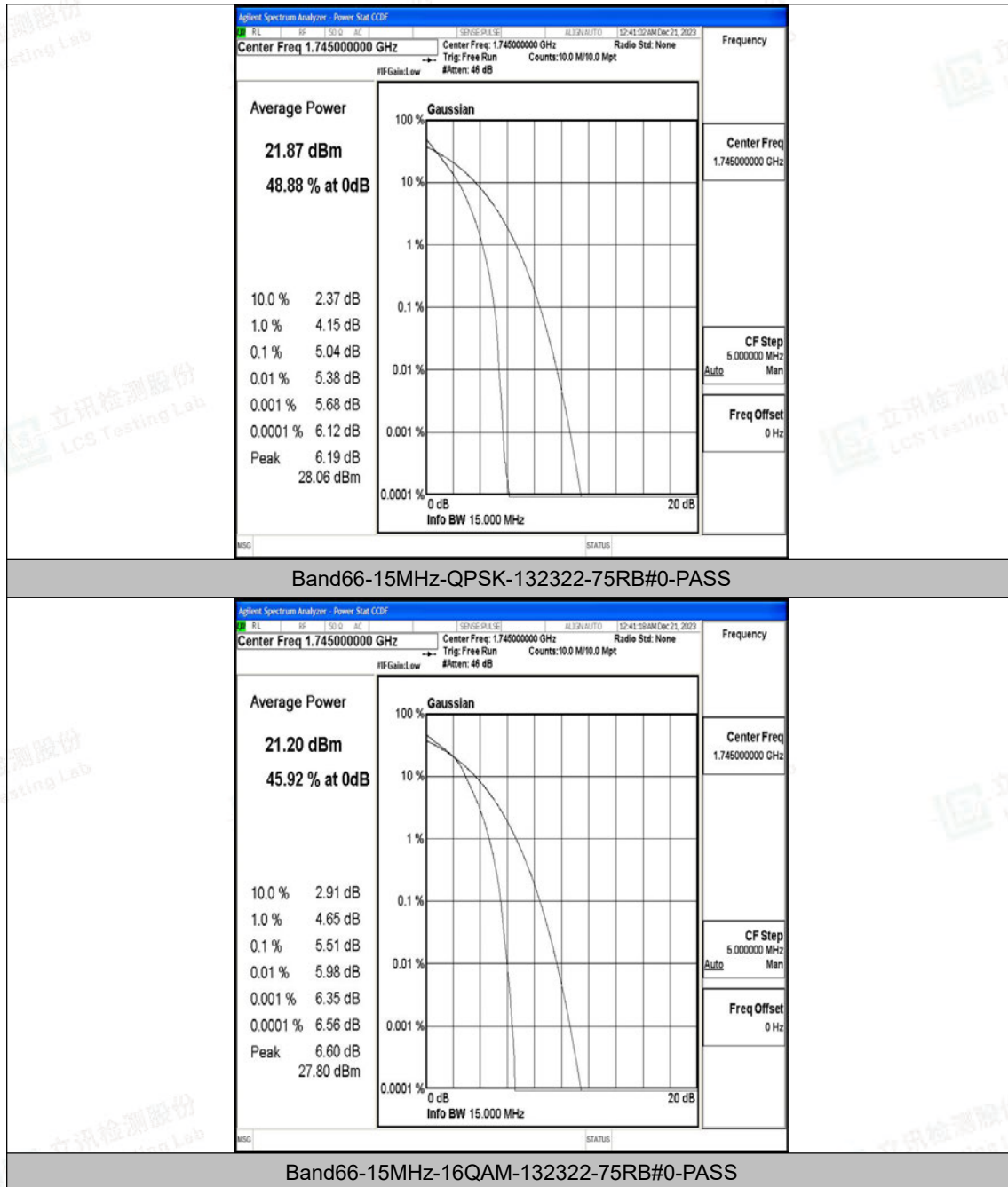


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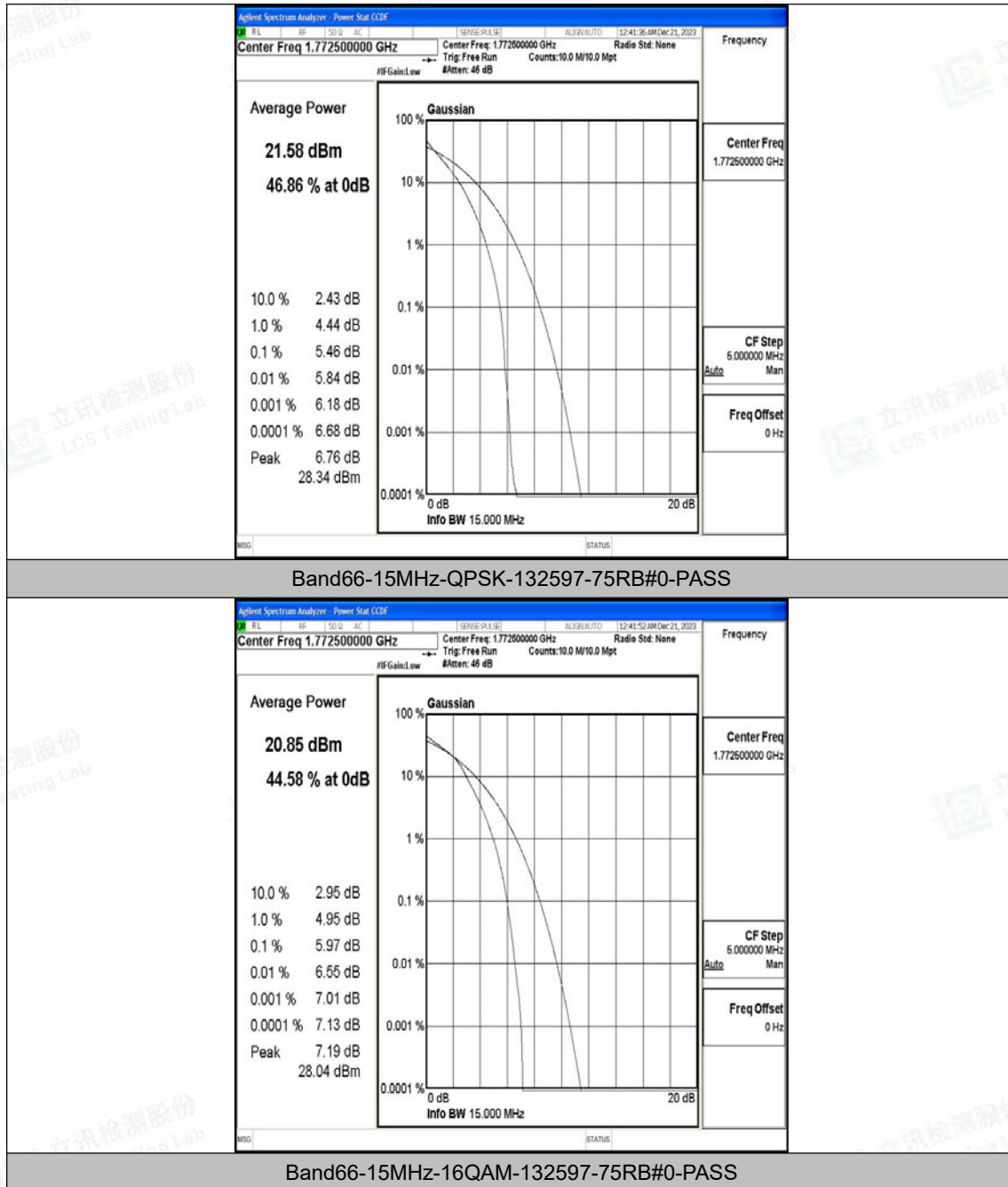


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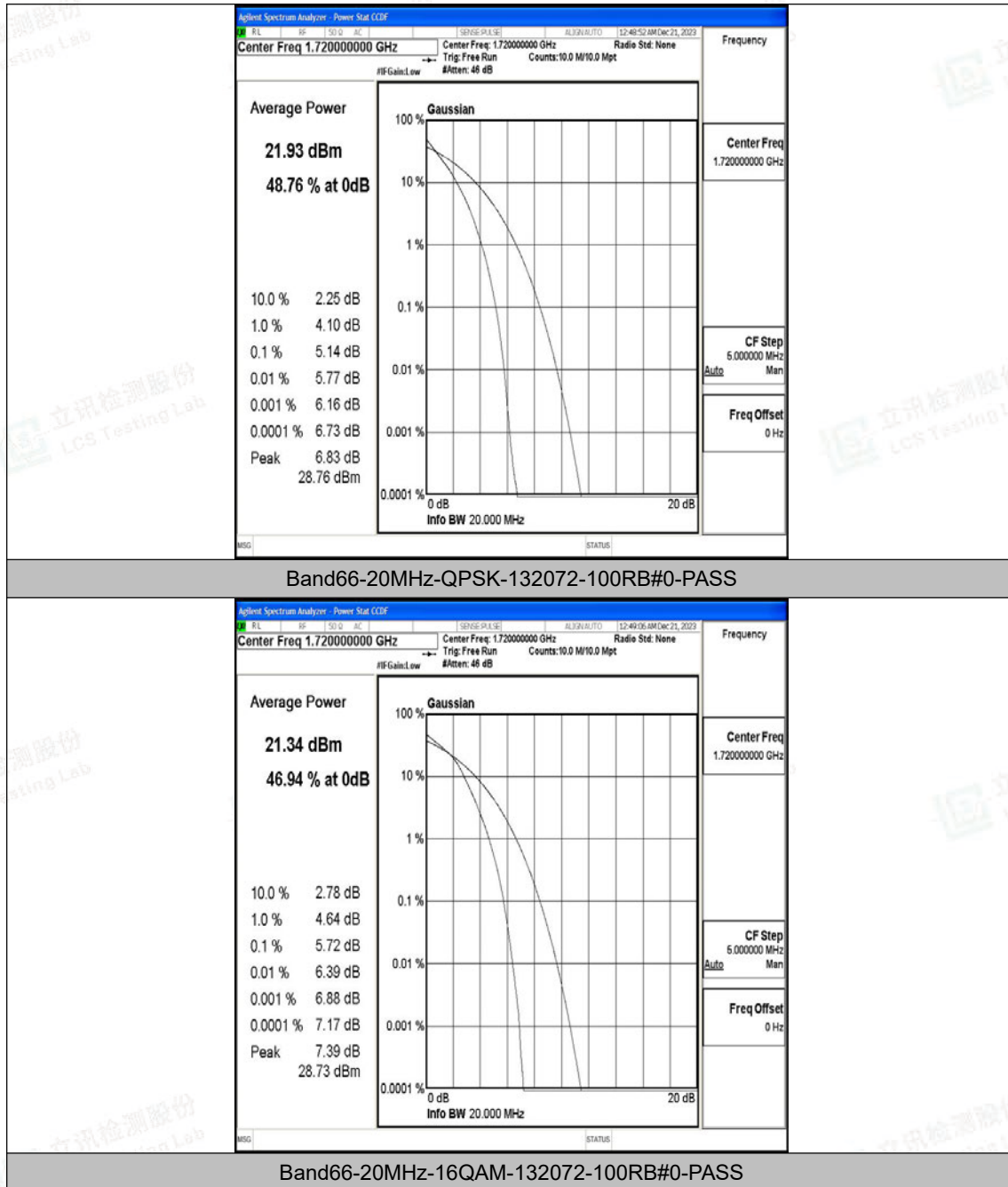
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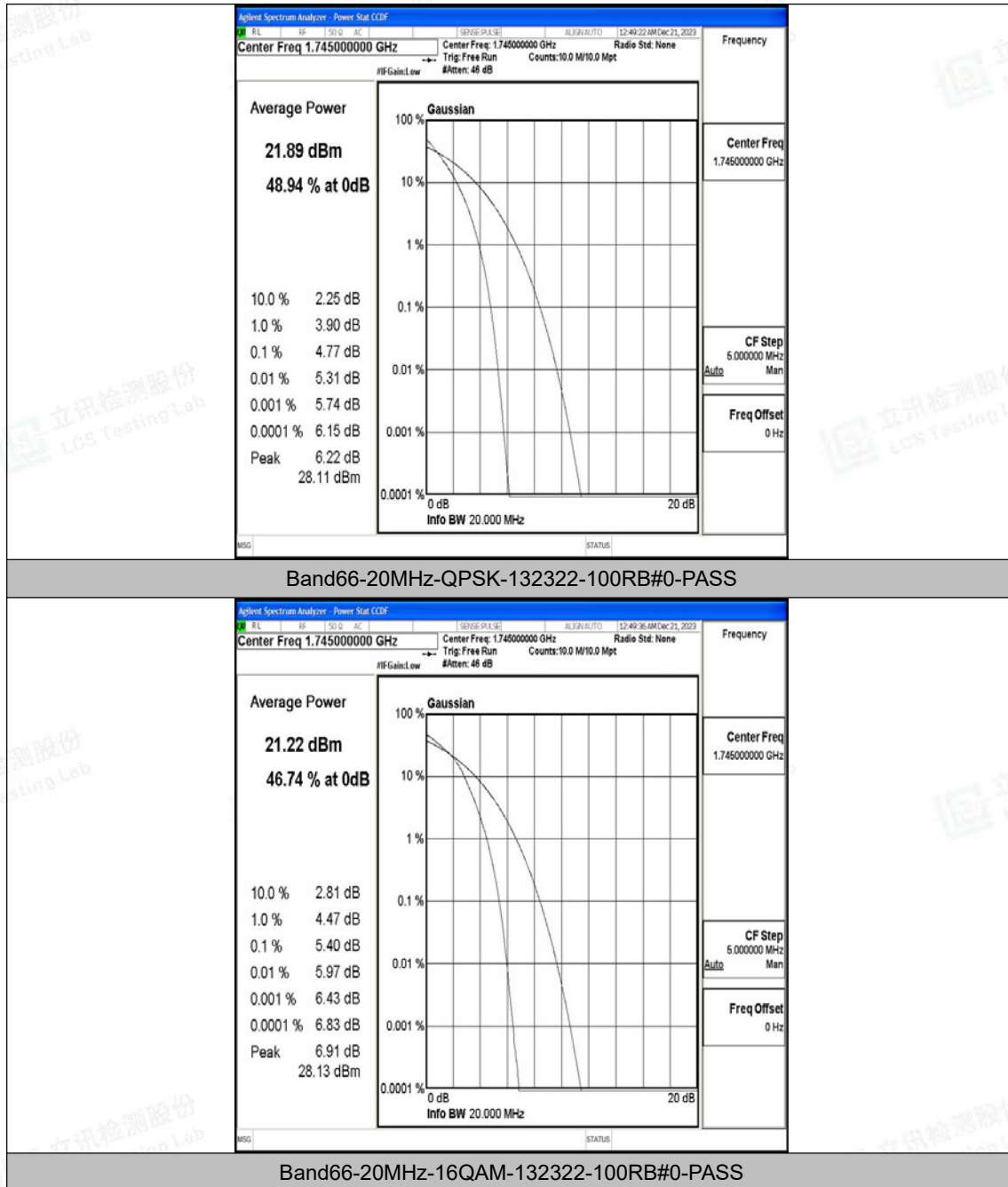


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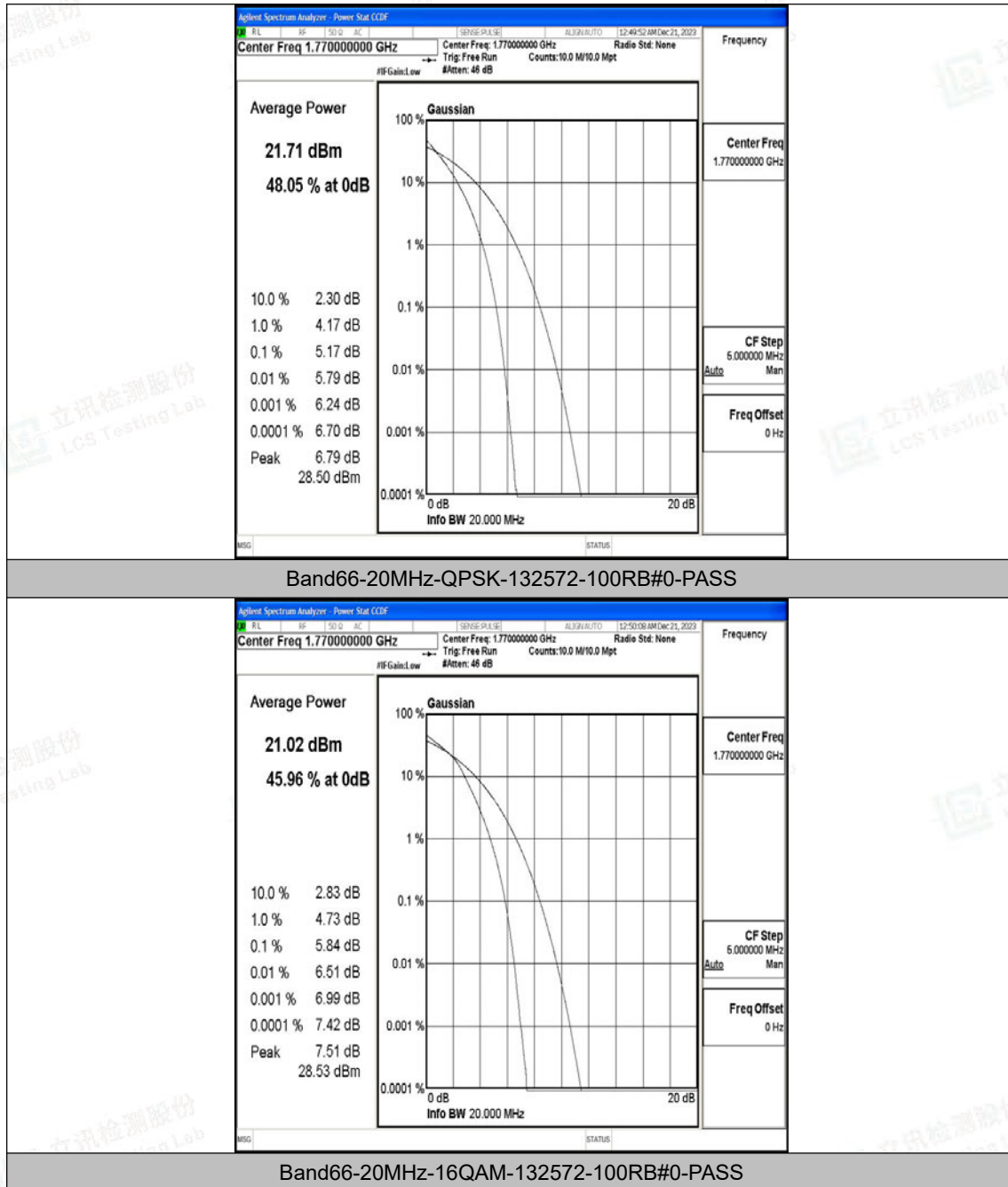


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## L.3 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band66 | 1.4MHz    | QPSK       | 131979  | 6RB#0            | 1.0932                   | 1.333                | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6RB#0            | 1.1074                   | 1.372                | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6RB#0            | 1.0997                   | 1.455                | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 6RB#0            | 1.1093                   | 1.387                | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6RB#0            | 1.0986                   | 1.444                | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 6RB#0            | 1.1064                   | 1.401                | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 15RB#0           | 2.7207                   | 3.153                | PASS    |
| Band66 | 3MHz      | 16QAM      | 131987  | 15RB#0           | 2.6998                   | 3.119                | PASS    |
| Band66 | 3MHz      | QPSK       | 132322  | 15RB#0           | 2.7259                   | 3.182                | PASS    |
| Band66 | 3MHz      | 16QAM      | 132322  | 15RB#0           | 2.7044                   | 3.131                | PASS    |
| Band66 | 3MHz      | QPSK       | 132657  | 15RB#0           | 2.7112                   | 3.364                | PASS    |
| Band66 | 3MHz      | 16QAM      | 132657  | 15RB#0           | 2.7127                   | 3.070                | PASS    |
| Band66 | 5MHz      | QPSK       | 131997  | 25RB#0           | 4.5343                   | 5.455                | PASS    |
| Band66 | 5MHz      | 16QAM      | 131997  | 25RB#0           | 4.5244                   | 5.332                | PASS    |
| Band66 | 5MHz      | QPSK       | 132322  | 25RB#0           | 4.5266                   | 5.351                | PASS    |
| Band66 | 5MHz      | 16QAM      | 132322  | 25RB#0           | 4.5323                   | 5.495                | PASS    |
| Band66 | 5MHz      | QPSK       | 132647  | 25RB#0           | 4.5339                   | 5.344                | PASS    |
| Band66 | 5MHz      | 16QAM      | 132647  | 25RB#0           | 4.5214                   | 5.311                | PASS    |
| Band66 | 10MHz     | QPSK       | 132022  | 50RB#0           | 9.0167                   | 10.18                | PASS    |
| Band66 | 10MHz     | 16QAM      | 132022  | 50RB#0           | 9.0143                   | 10.07                | PASS    |
| Band66 | 10MHz     | QPSK       | 132322  | 50RB#0           | 9.0012                   | 10.01                | PASS    |
| Band66 | 10MHz     | 16QAM      | 132322  | 50RB#0           | 9.0045                   | 10.19                | PASS    |
| Band66 | 10MHz     | QPSK       | 132622  | 50RB#0           | 9.0157                   | 10.02                | PASS    |
| Band66 | 10MHz     | 16QAM      | 132622  | 50RB#0           | 9.0093                   | 10.07                | PASS    |
| Band66 | 15MHz     | QPSK       | 132047  | 75RB#0           | 13.536                   | 15.49                | PASS    |
| Band66 | 15MHz     | 16QAM      | 132047  | 75RB#0           | 13.504                   | 14.98                | PASS    |
| Band66 | 15MHz     | QPSK       | 132322  | 75RB#0           | 13.544                   | 15.31                | PASS    |
| Band66 | 15MHz     | 16QAM      | 132322  | 75RB#0           | 13.496                   | 15.02                | PASS    |
| Band66 | 15MHz     | QPSK       | 132597  | 75RB#0           | 13.528                   | 15.45                | PASS    |
| Band66 | 15MHz     | 16QAM      | 132597  | 75RB#0           | 13.511                   | 14.91                | PASS    |
| Band66 | 20MHz     | QPSK       | 132072  | 100RB#0          | 18.001                   | 19.99                | PASS    |
| Band66 | 20MHz     | 16QAM      | 132072  | 100RB#0          | 18.060                   | 19.93                | PASS    |
| Band66 | 20MHz     | QPSK       | 132322  | 100RB#0          | 17.993                   | 20.11                | PASS    |
| Band66 | 20MHz     | 16QAM      | 132322  | 100RB#0          | 18.031                   | 19.89                | PASS    |



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|        |       |       |        |         |        |       |      |
|--------|-------|-------|--------|---------|--------|-------|------|
| Band66 | 20MHz | QPSK  | 132572 | 100RB#0 | 18.051 | 20.20 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 100RB#0 | 18.054 | 20.41 | PASS |

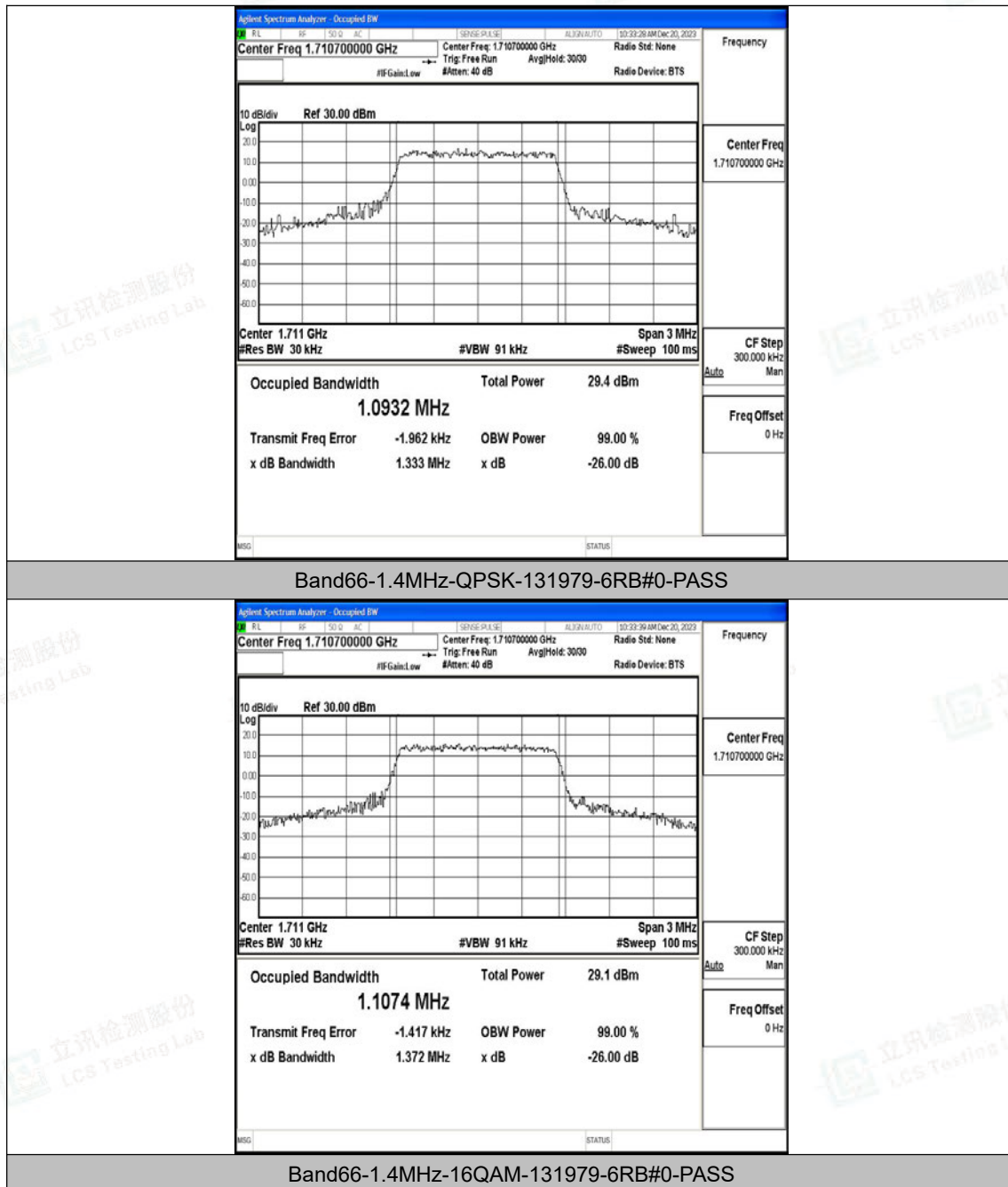


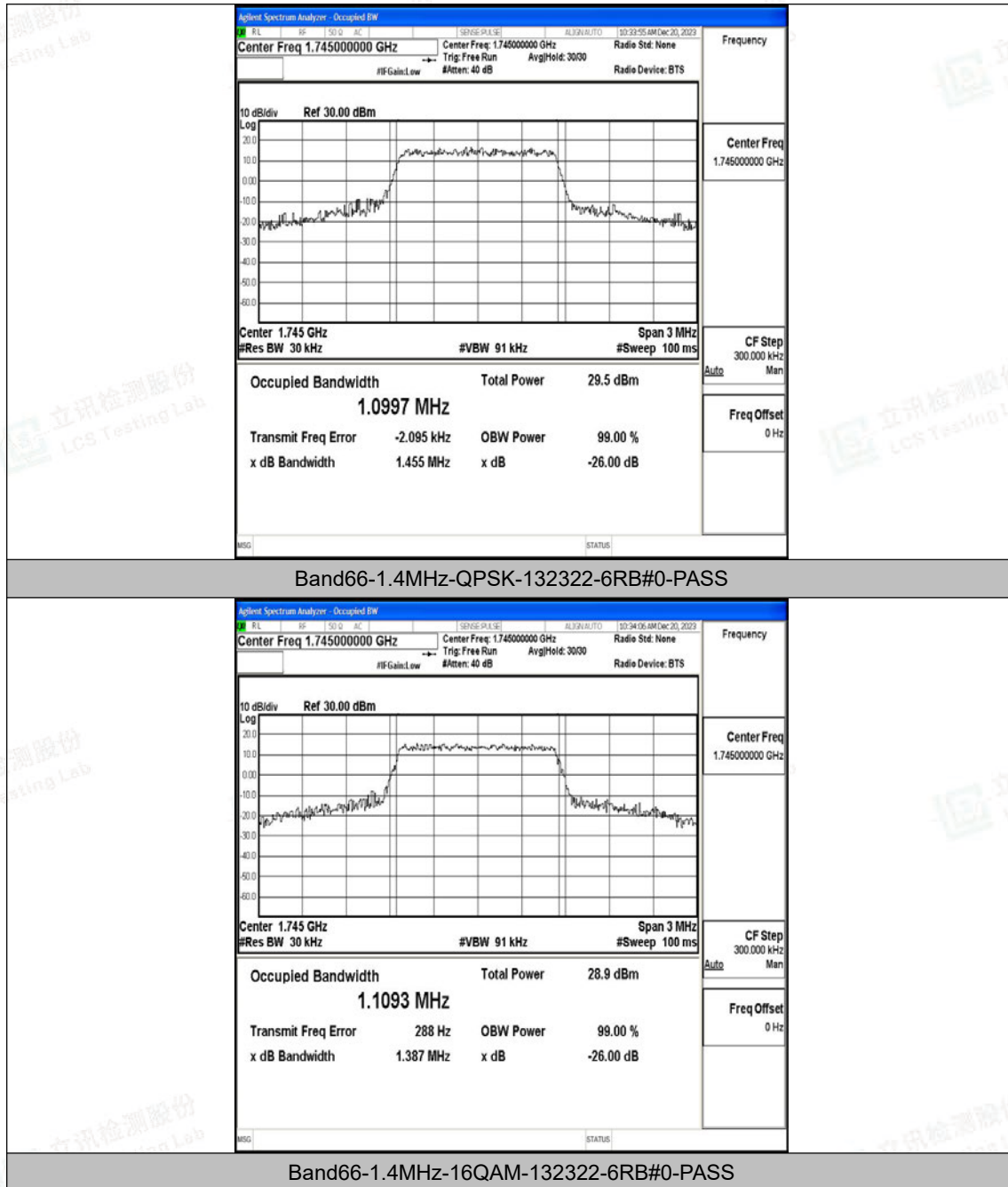
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## Test Graphs



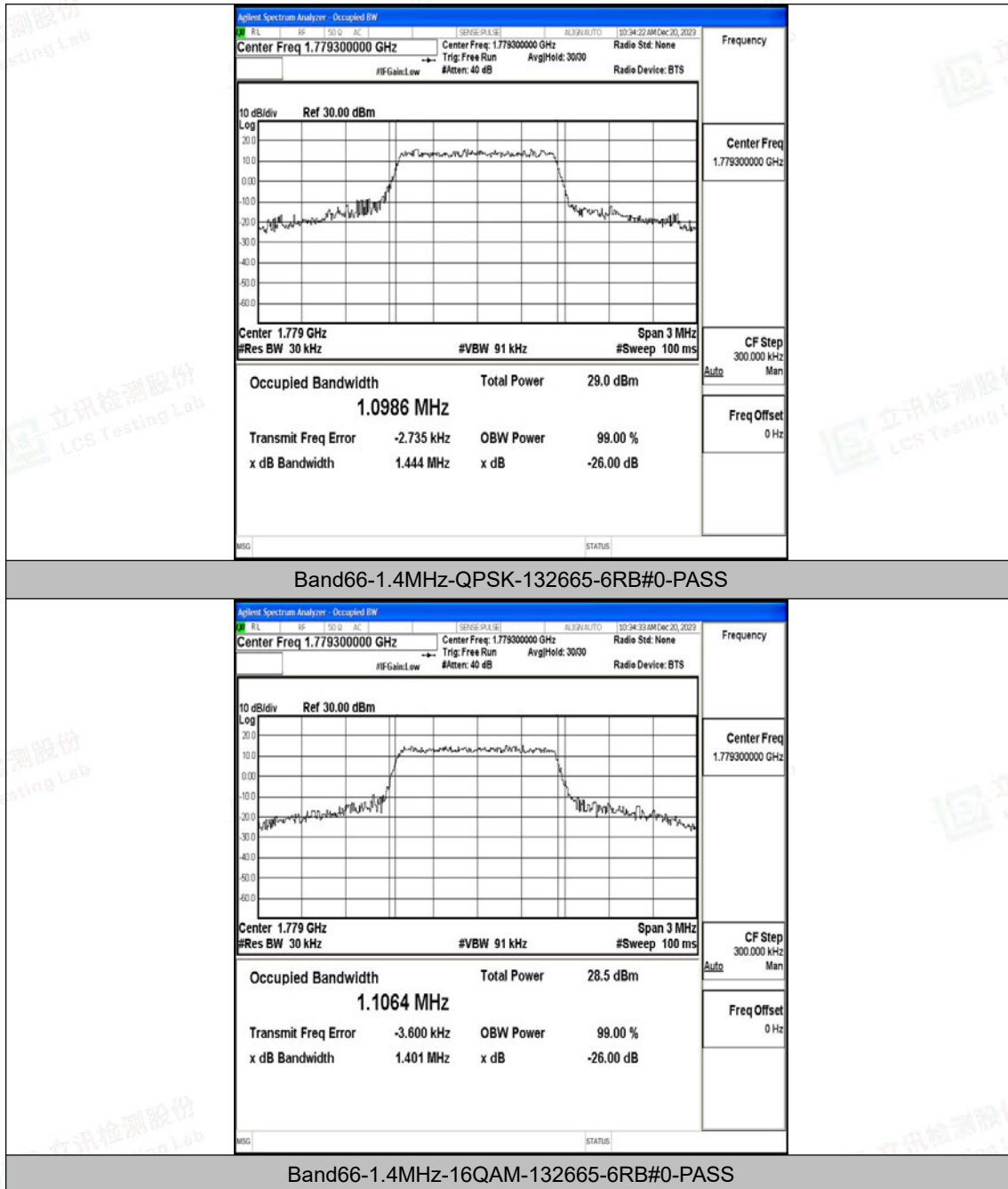


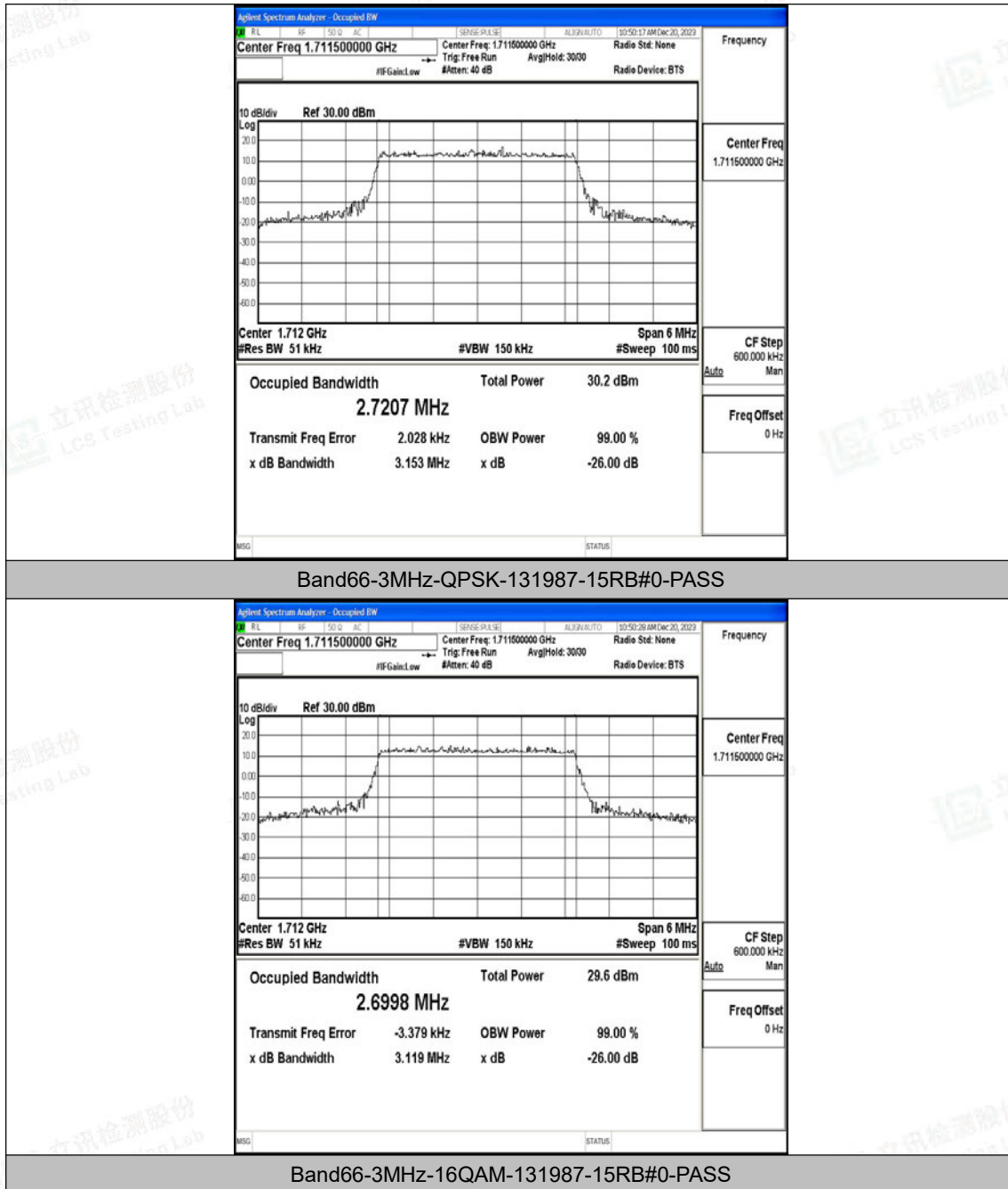
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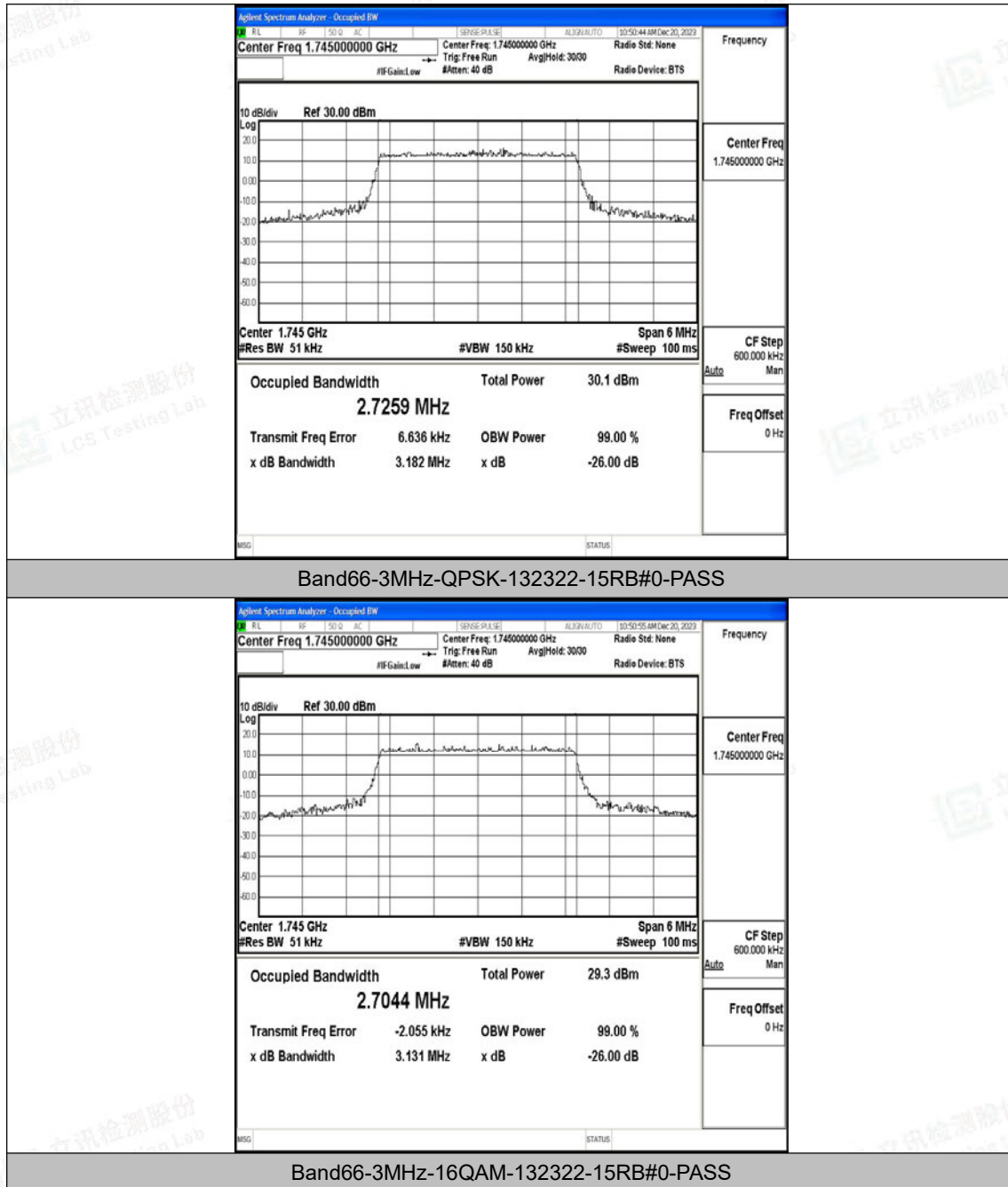


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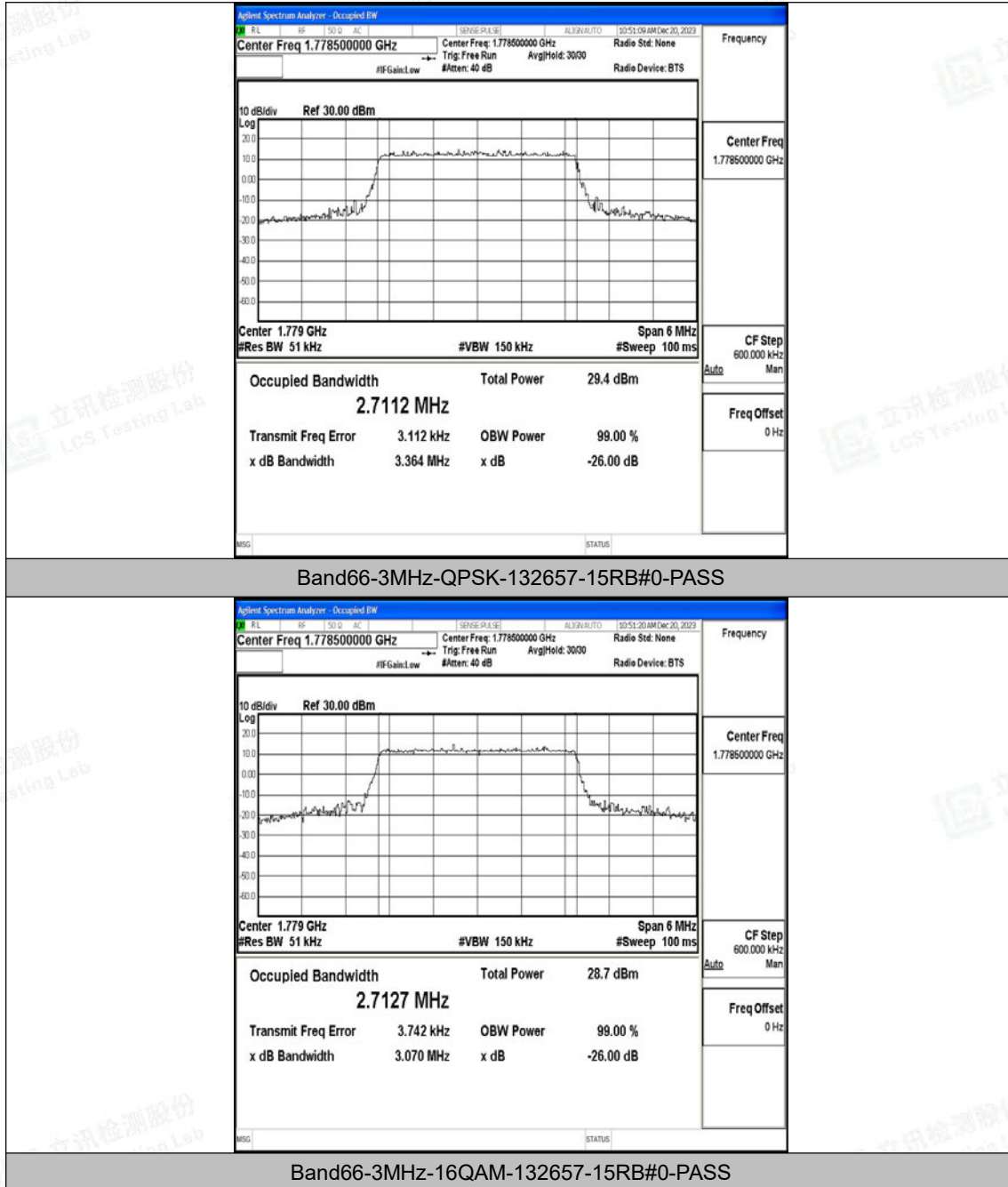
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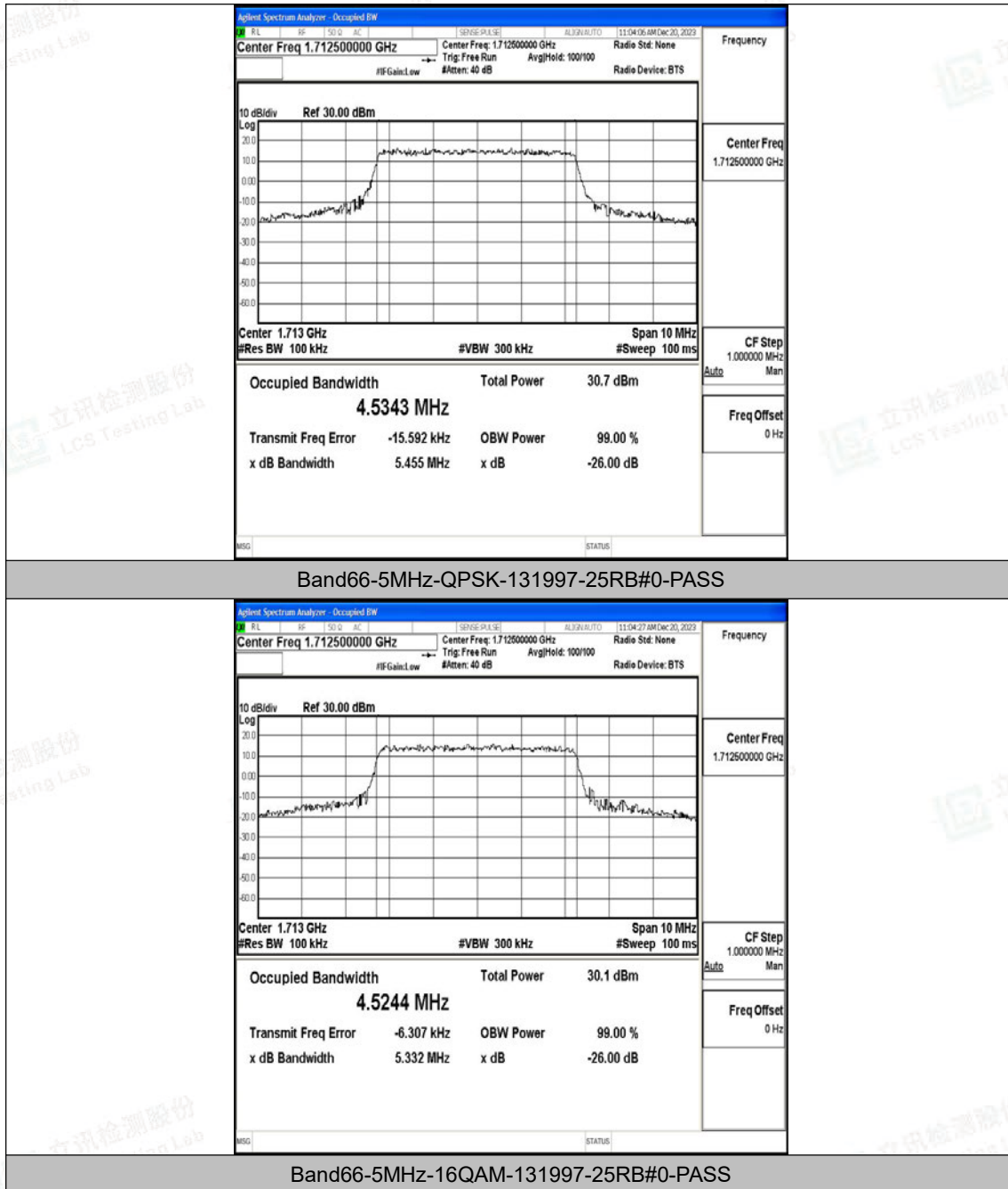
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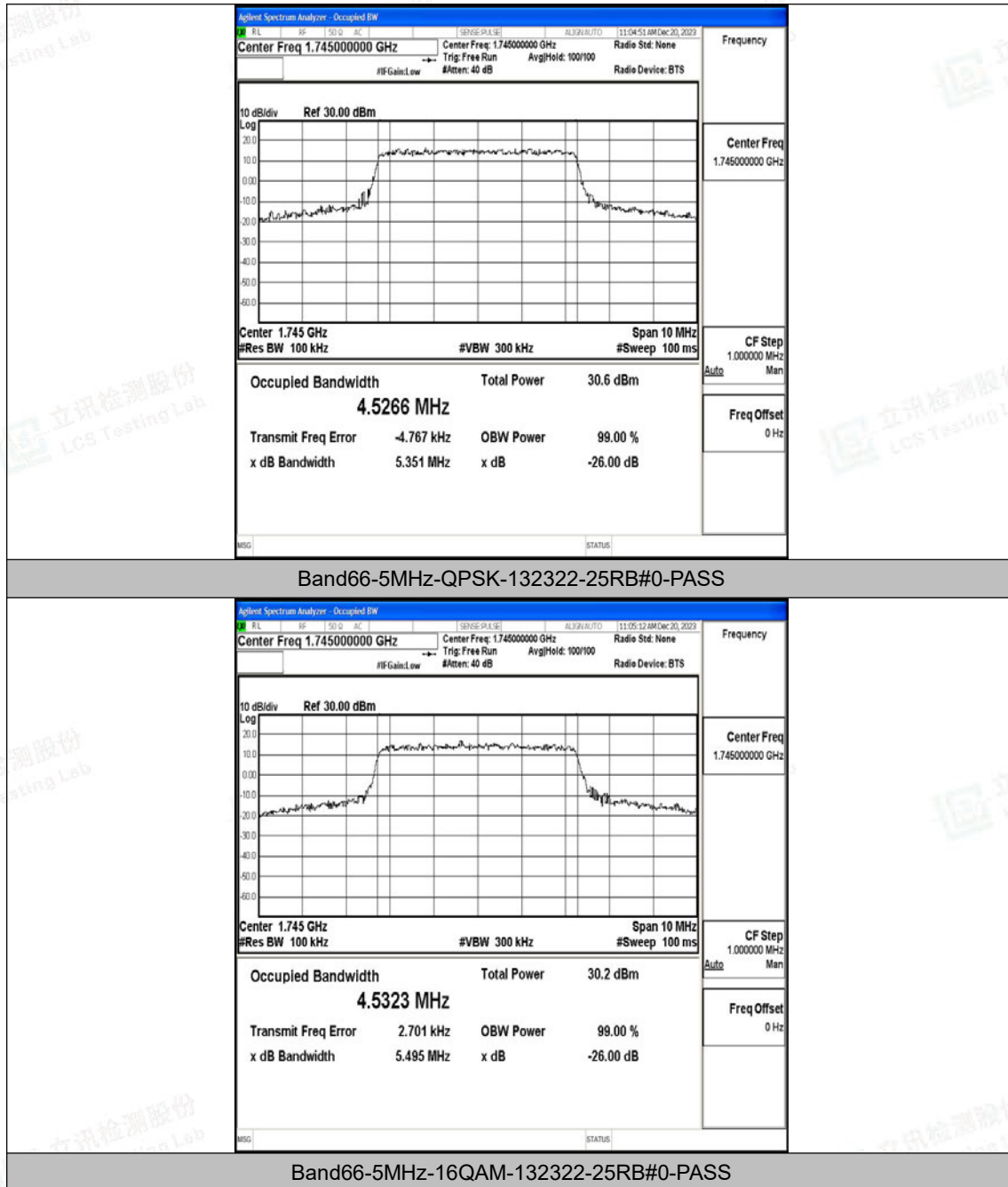


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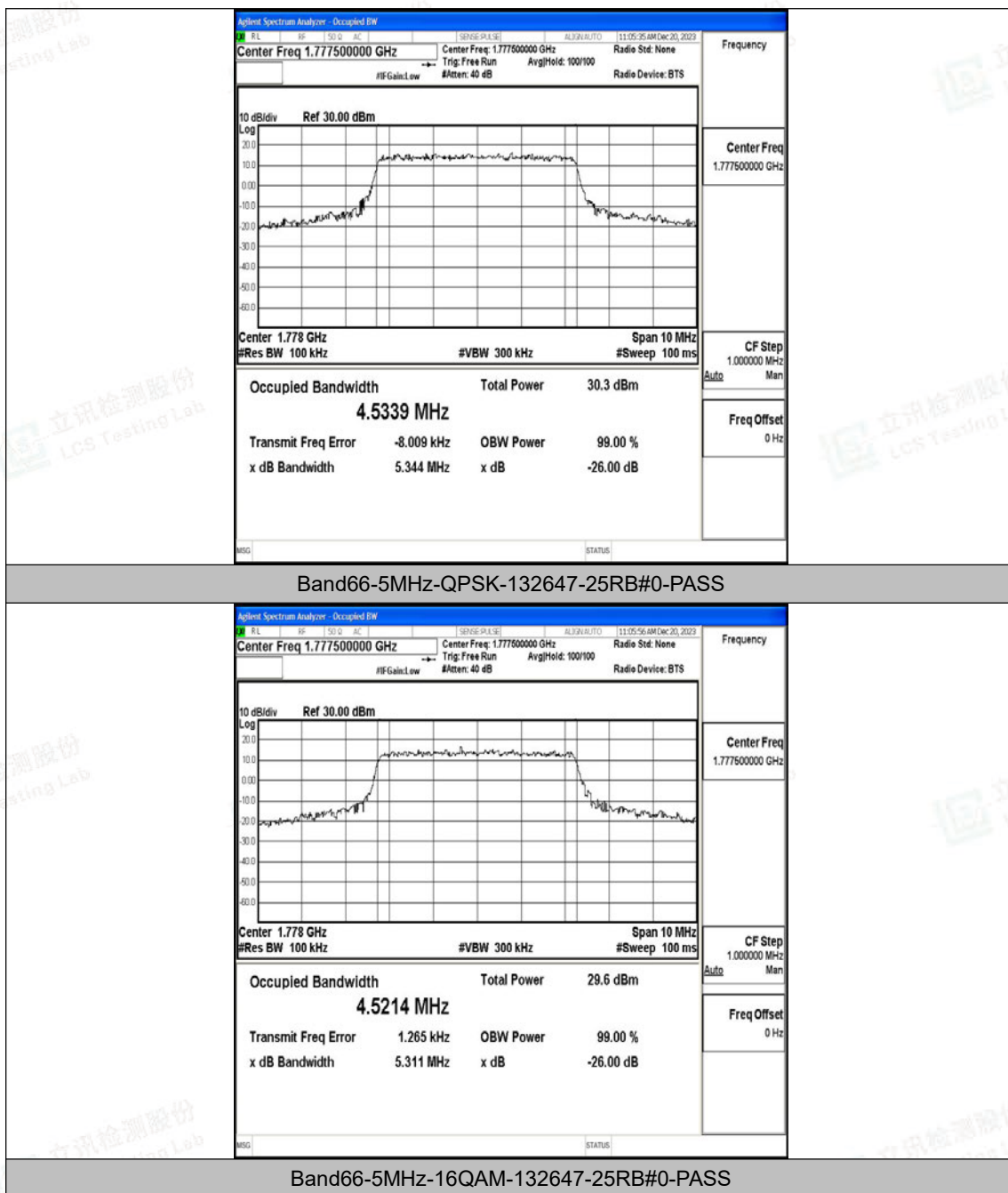


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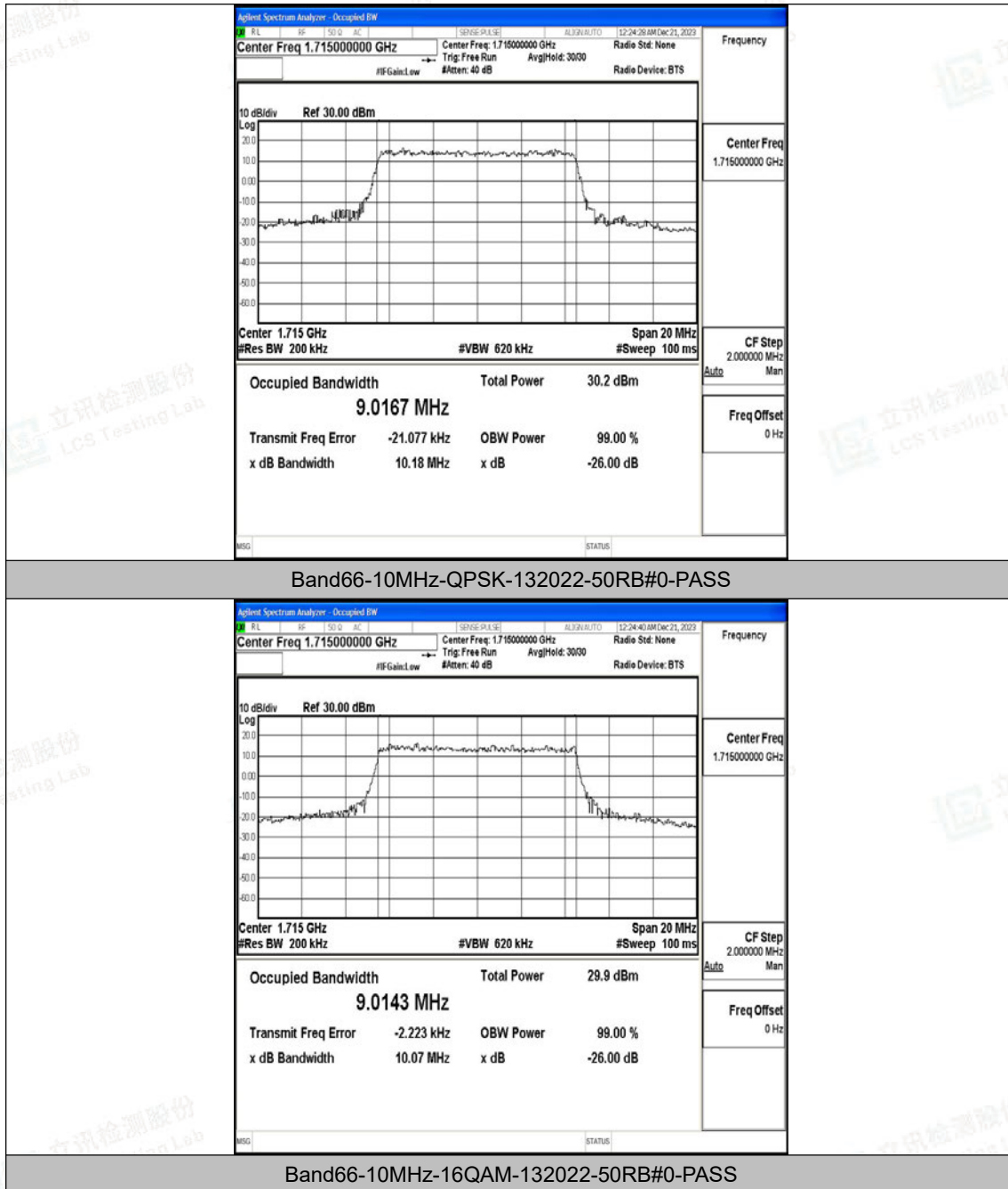


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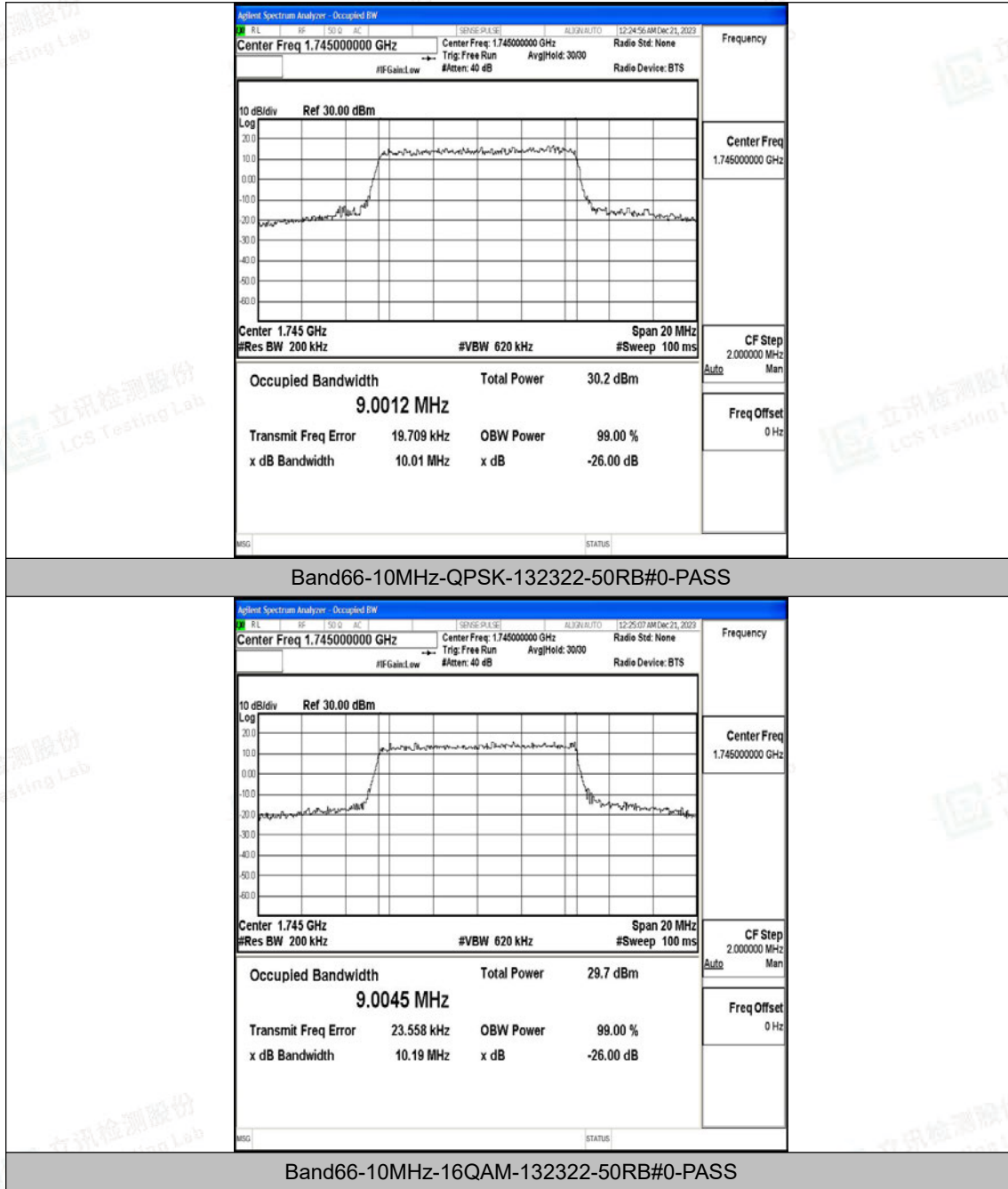


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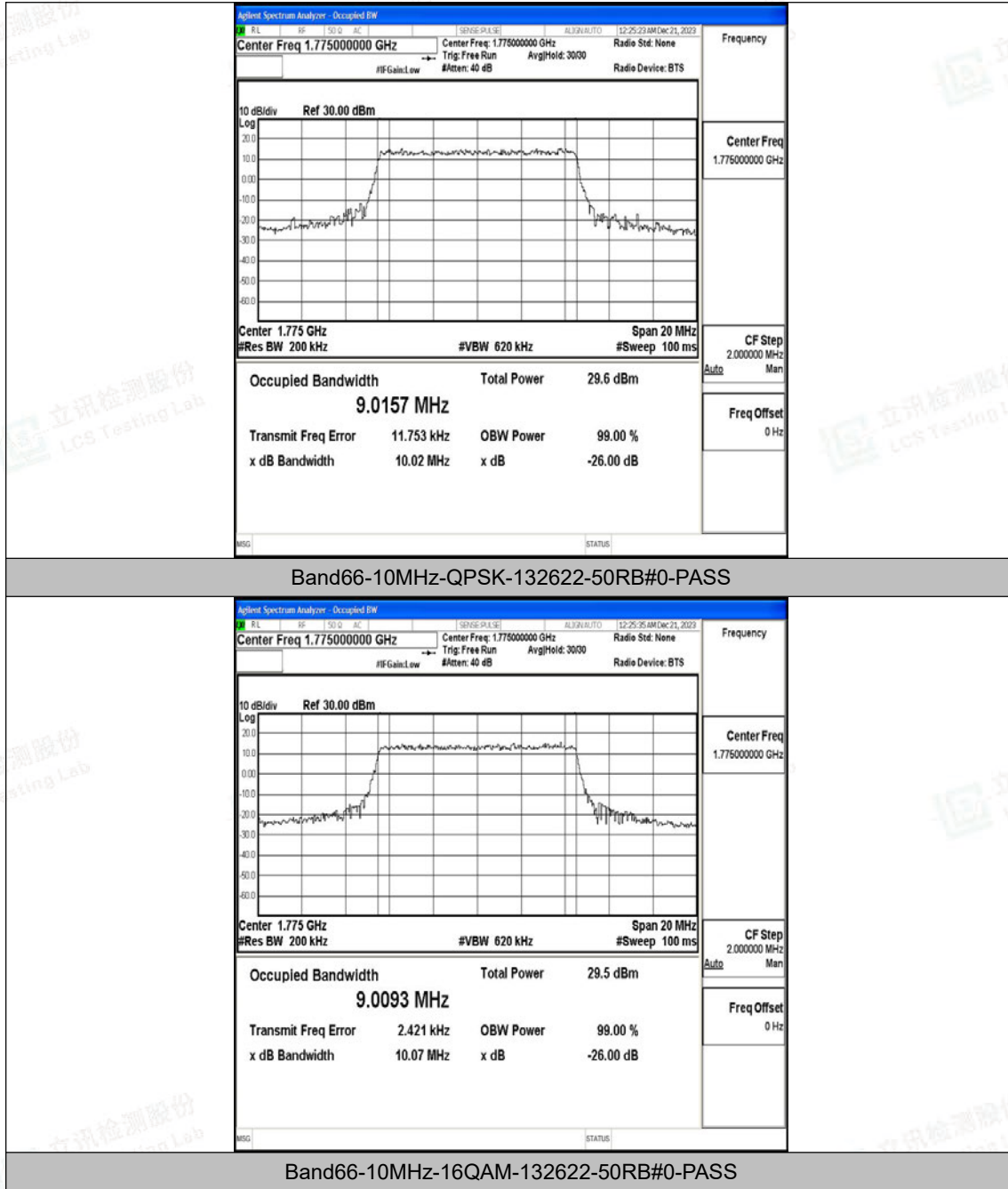
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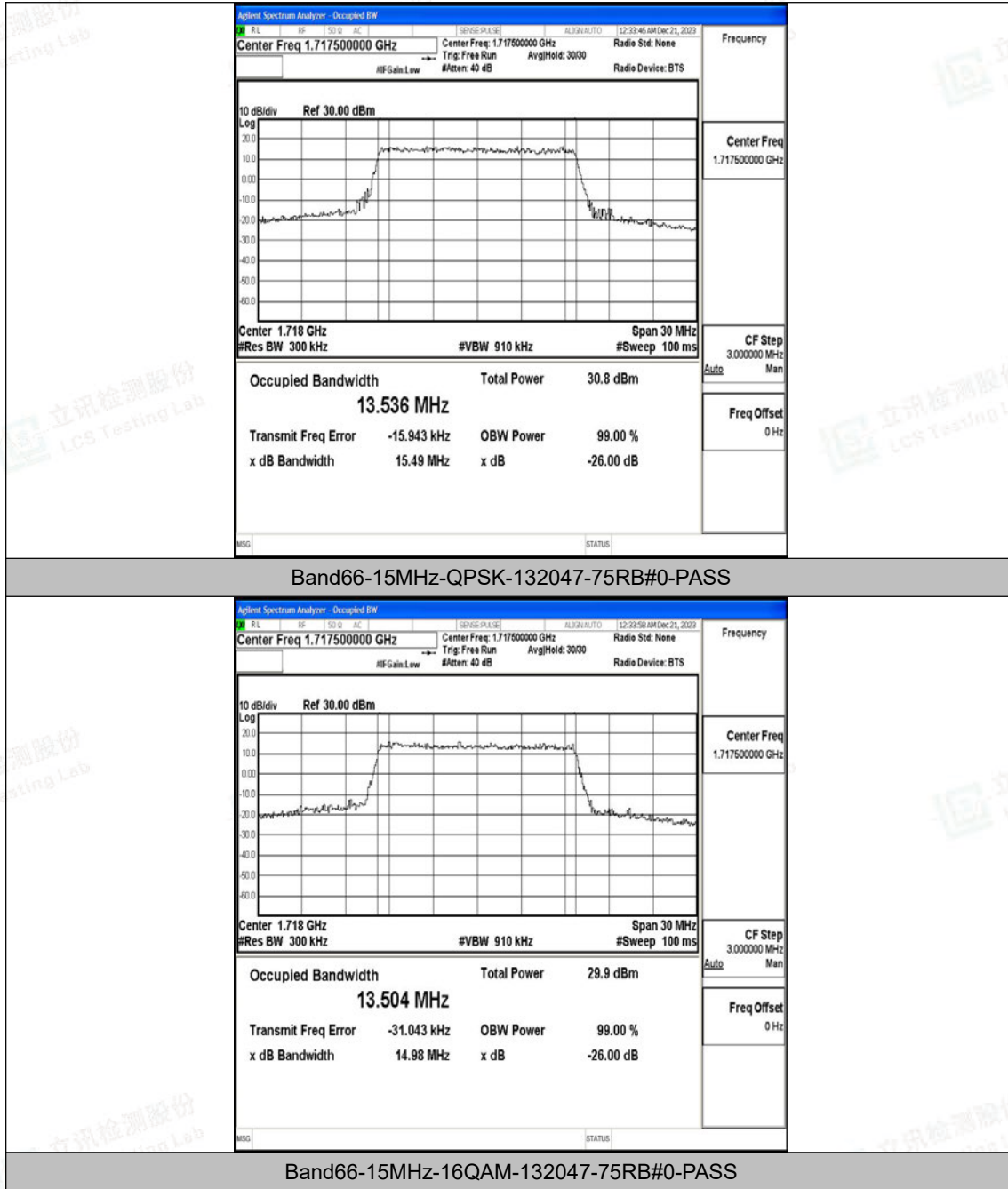
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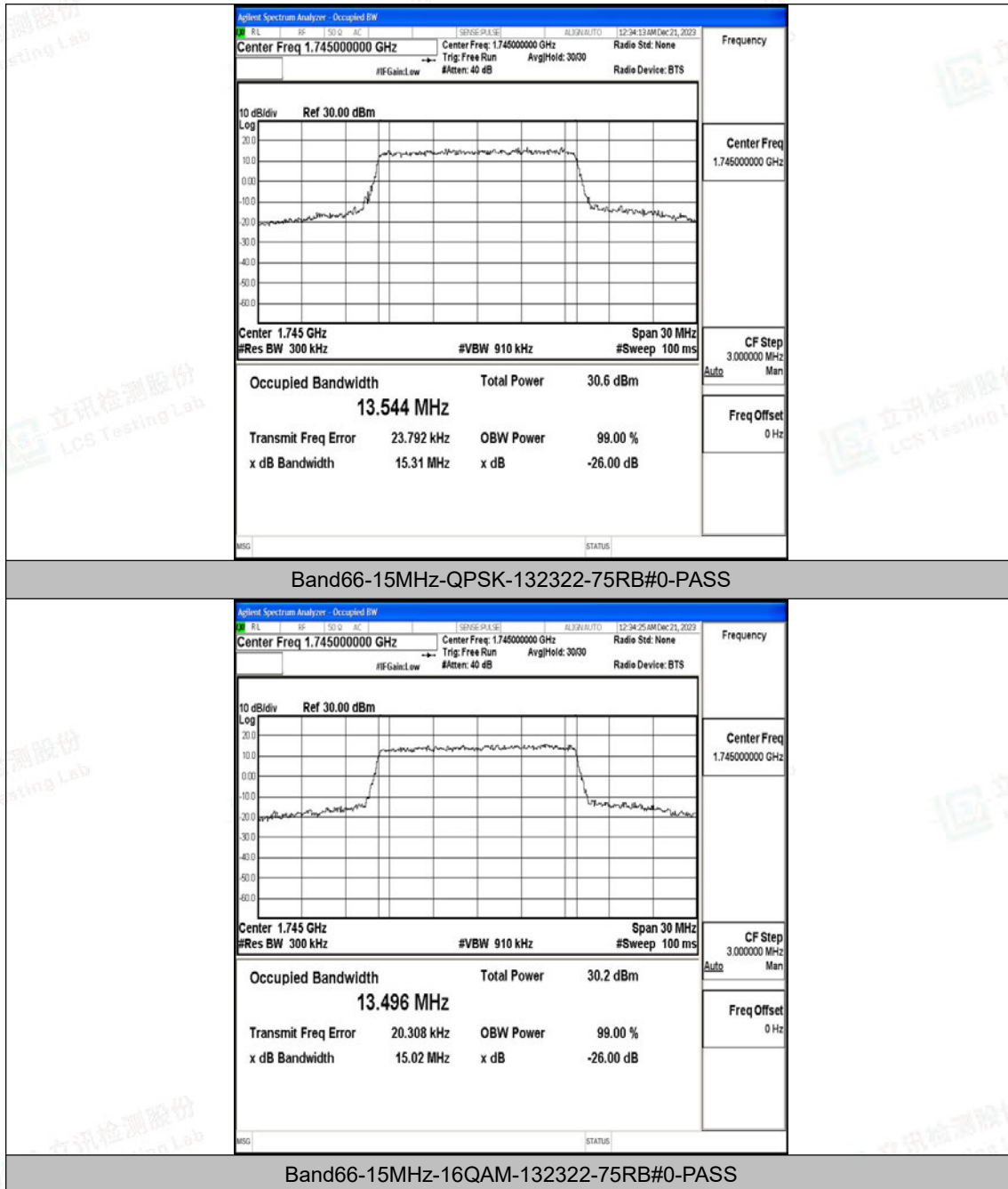


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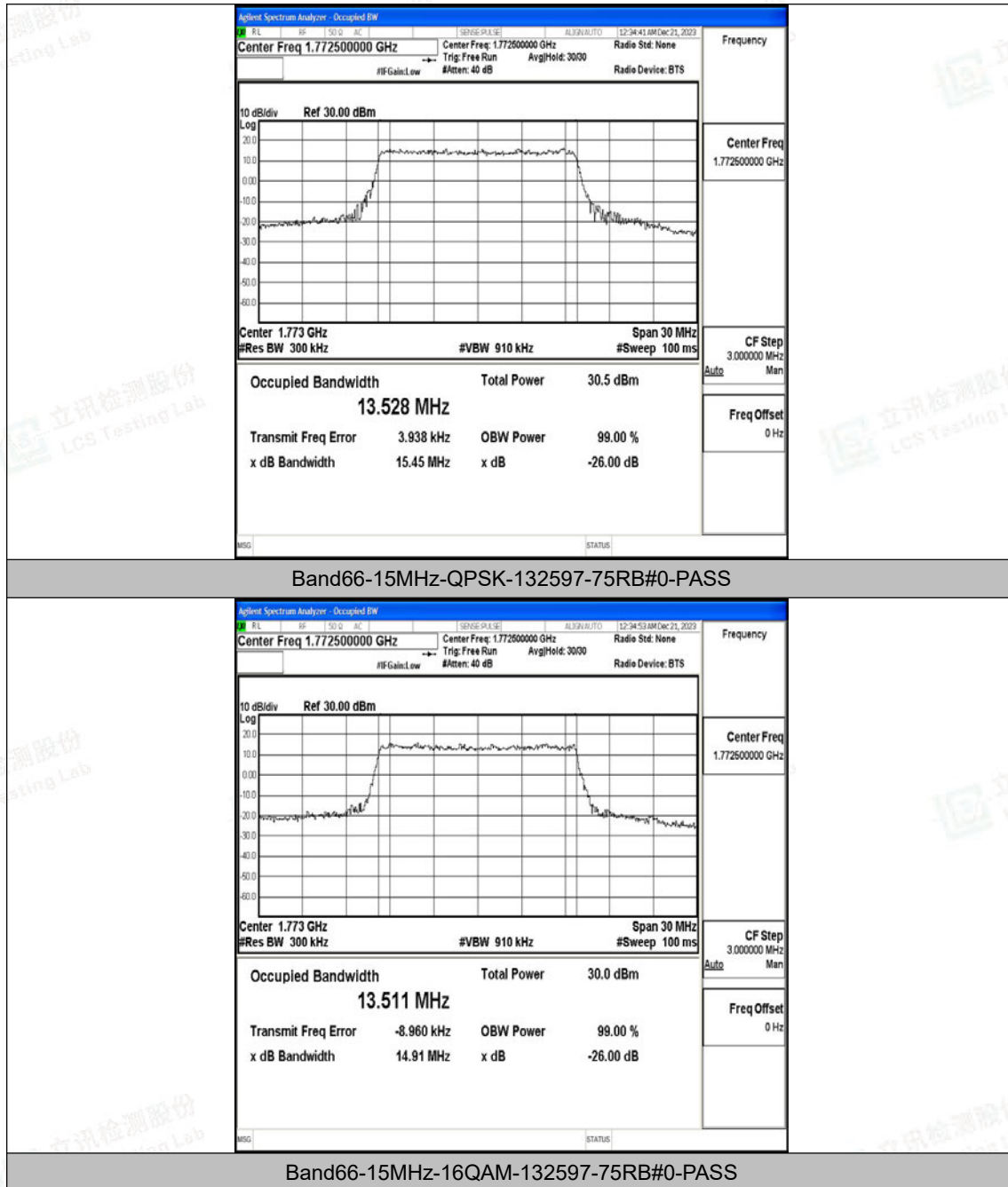


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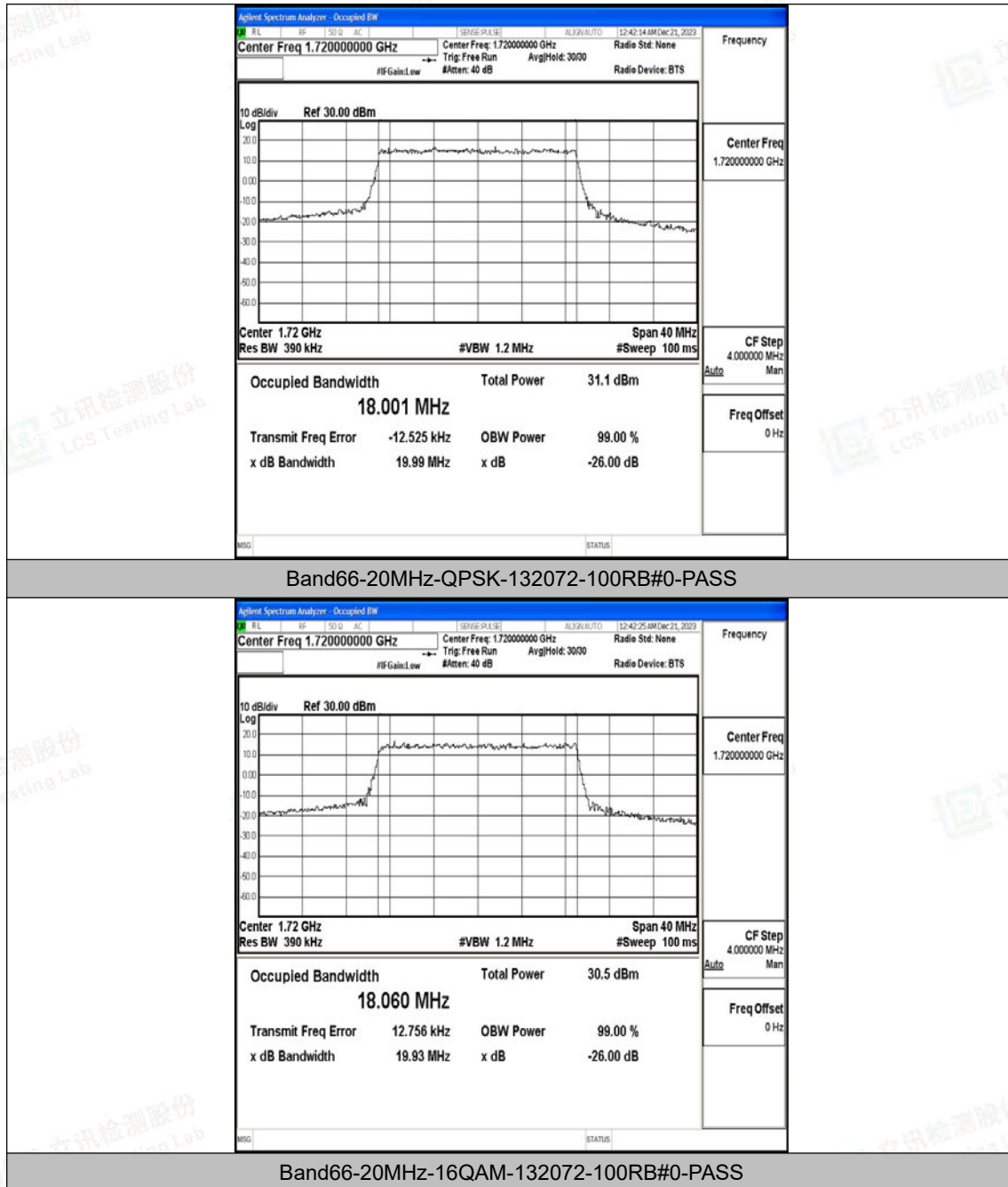


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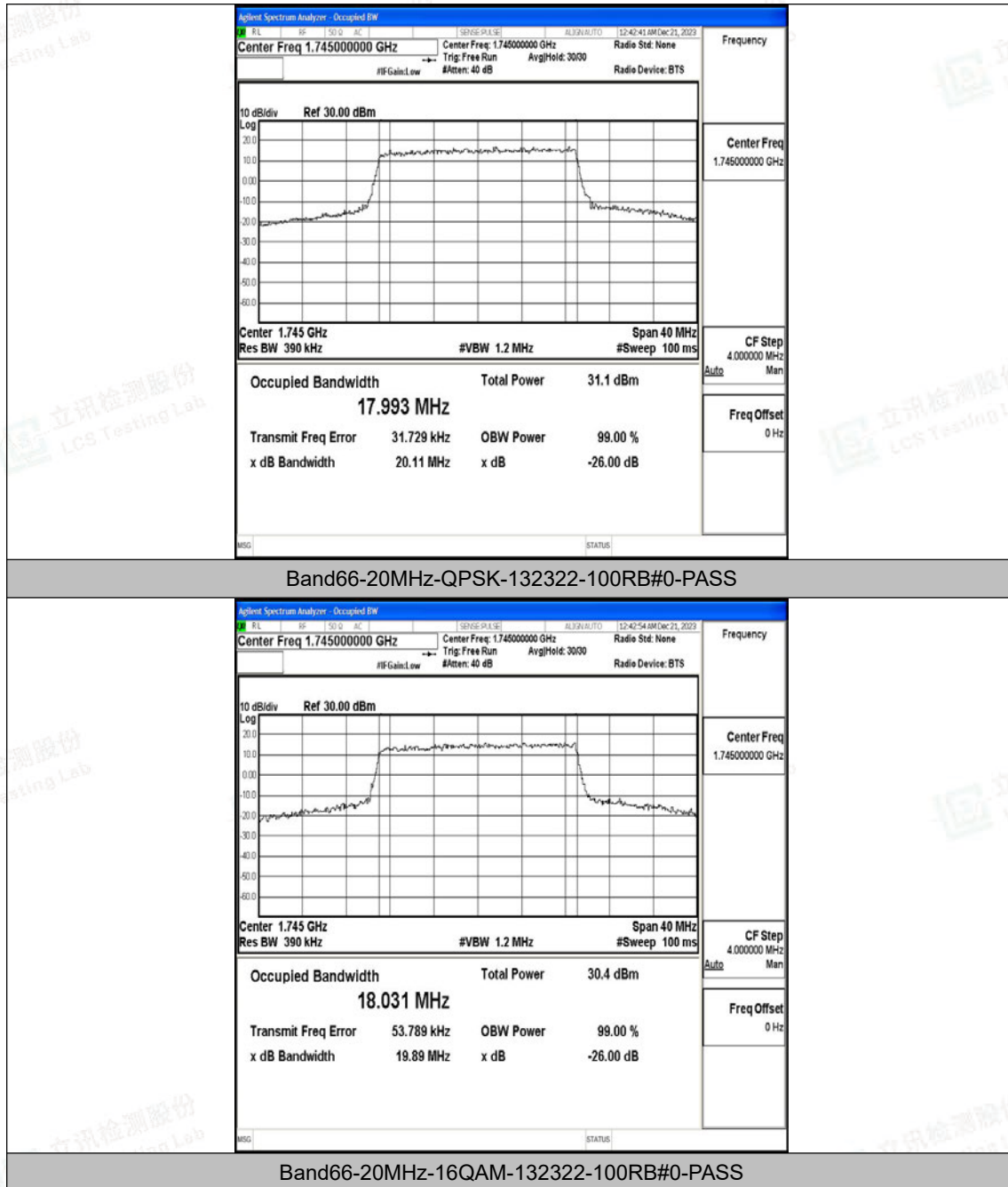
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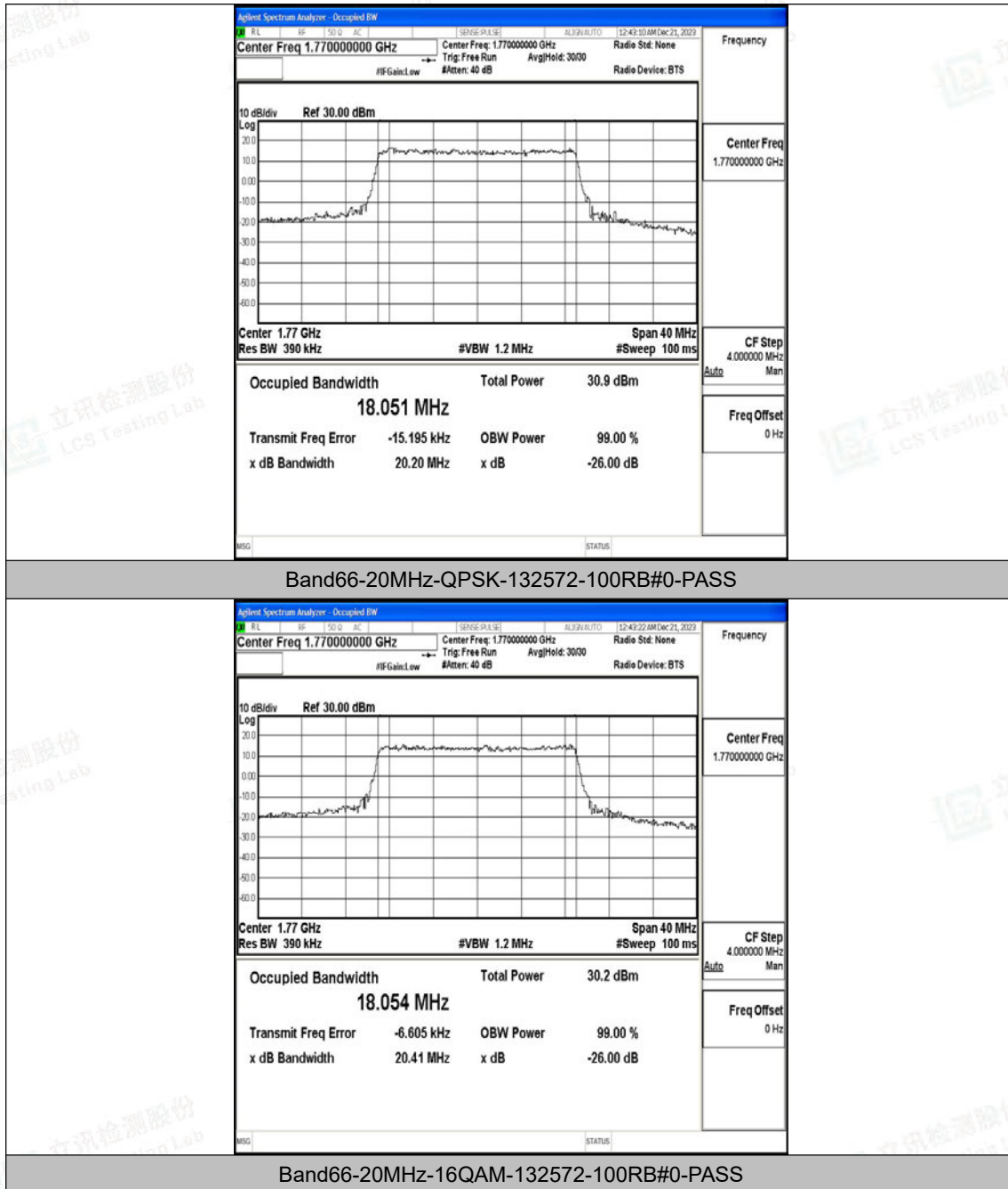


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## L.4 Band Edge

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Peak Frequency | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|----------------|-------------|---------|
| Band66 | 1.4MHz    | QPSK       | 131979  | 6RB#0            | 1709.88        | -24.98      | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6RB#0            | 1709.96        | -24.88      | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6RB#0            | 1780.04        | -23.81      | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 6RB#0            | 1780.06        | -23.92      | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 15RB#0           | 1710.00        | -22.23      | PASS    |
| Band66 | 3MHz      | 16QAM      | 131987  | 15RB#0           | 1709.99        | -22.31      | PASS    |
| Band66 | 3MHz      | QPSK       | 132657  | 15RB#0           | 1780.00        | -21.70      | PASS    |
| Band66 | 3MHz      | 16QAM      | 132657  | 15RB#0           | 1780.01        | -23.46      | PASS    |
| Band66 | 5MHz      | QPSK       | 131997  | 25RB#0           | 1710.00        | -24.12      | PASS    |
| Band66 | 5MHz      | 16QAM      | 131997  | 25RB#0           | 1709.96        | -25.09      | PASS    |
| Band66 | 5MHz      | QPSK       | 132647  | 25RB#0           | 1780.00        | -24.54      | PASS    |
| Band66 | 5MHz      | 16QAM      | 132647  | 25RB#0           | 1780.00        | -25.64      | PASS    |
| Band66 | 10MHz     | QPSK       | 132022  | 50RB#0           | 1709.92        | -36.36      | PASS    |
| Band66 | 10MHz     | 16QAM      | 132022  | 50RB#0           | 1709.96        | -34.59      | PASS    |
| Band66 | 10MHz     | QPSK       | 132622  | 50RB#0           | 1780.01        | -33.48      | PASS    |
| Band66 | 10MHz     | 16QAM      | 132622  | 50RB#0           | 1780.01        | -33.08      | PASS    |
| Band66 | 15MHz     | QPSK       | 132047  | 75RB#0           | 1709.74        | -26.97      | PASS    |
| Band66 | 15MHz     | 16QAM      | 132047  | 75RB#0           | 1709.99        | -27.81      | PASS    |
| Band66 | 15MHz     | QPSK       | 132597  | 75RB#0           | 1780.01        | -30.33      | PASS    |
| Band66 | 15MHz     | 16QAM      | 132597  | 75RB#0           | 1780.06        | -31.56      | PASS    |
| Band66 | 20MHz     | QPSK       | 132072  | 100RB#0          | 1709.88        | -26.34      | PASS    |
| Band66 | 20MHz     | 16QAM      | 132072  | 100RB#0          | 1709.95        | -27.81      | PASS    |
| Band66 | 20MHz     | QPSK       | 132572  | 100RB#0          | 1780.10        | -30.35      | PASS    |
| Band66 | 20MHz     | 16QAM      | 132572  | 100RB#0          | 1780.01        | -32.32      | PASS    |



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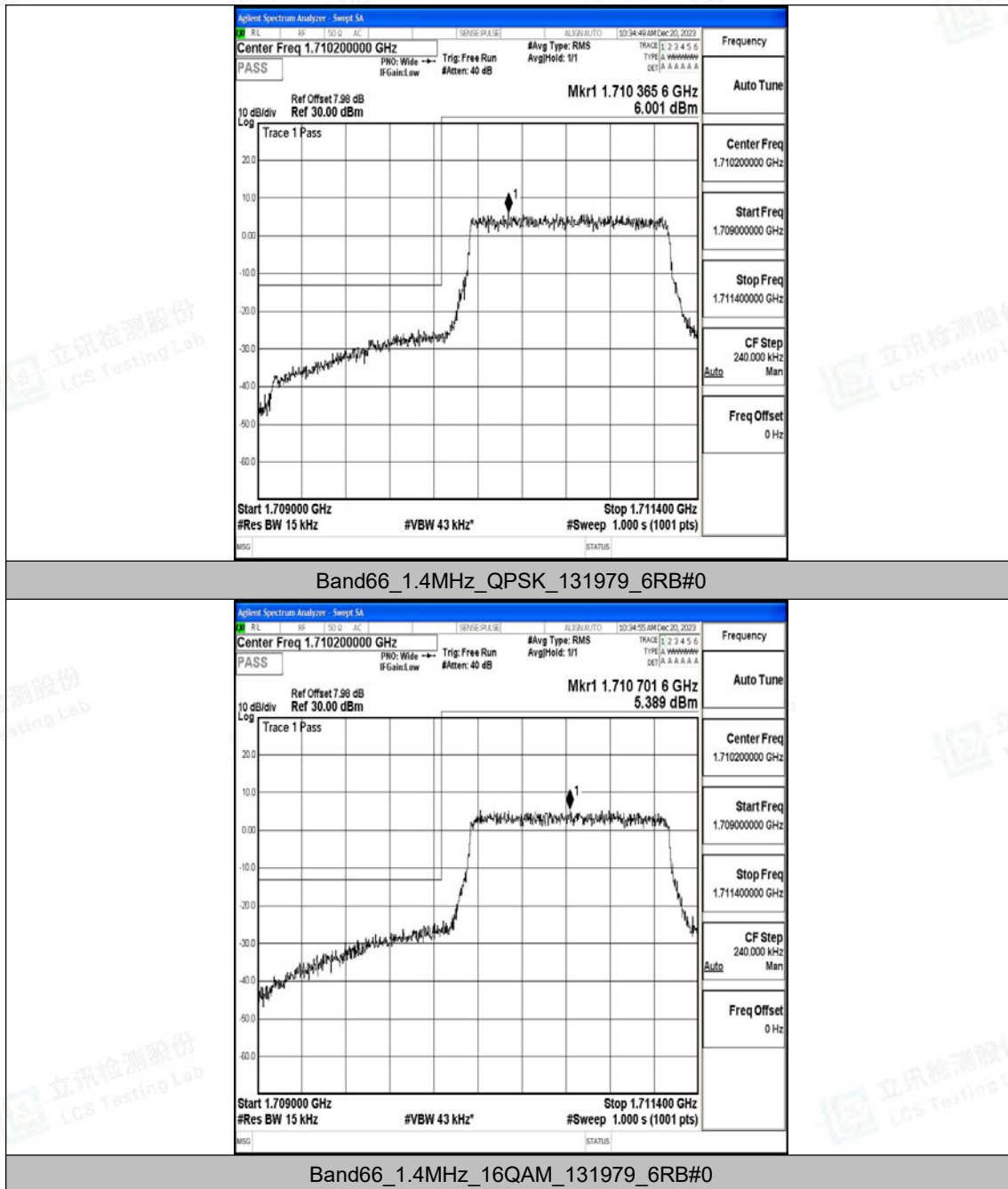
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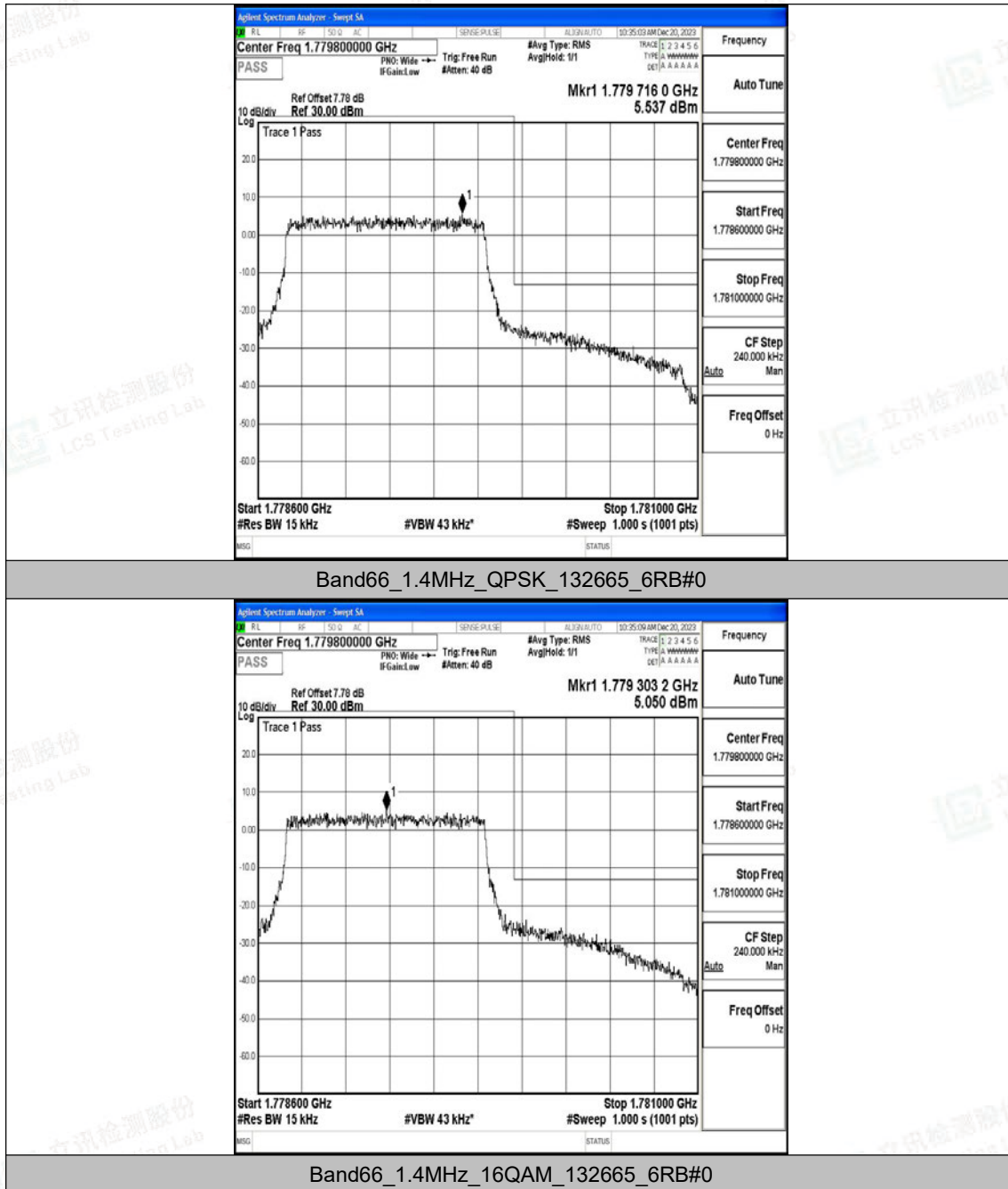
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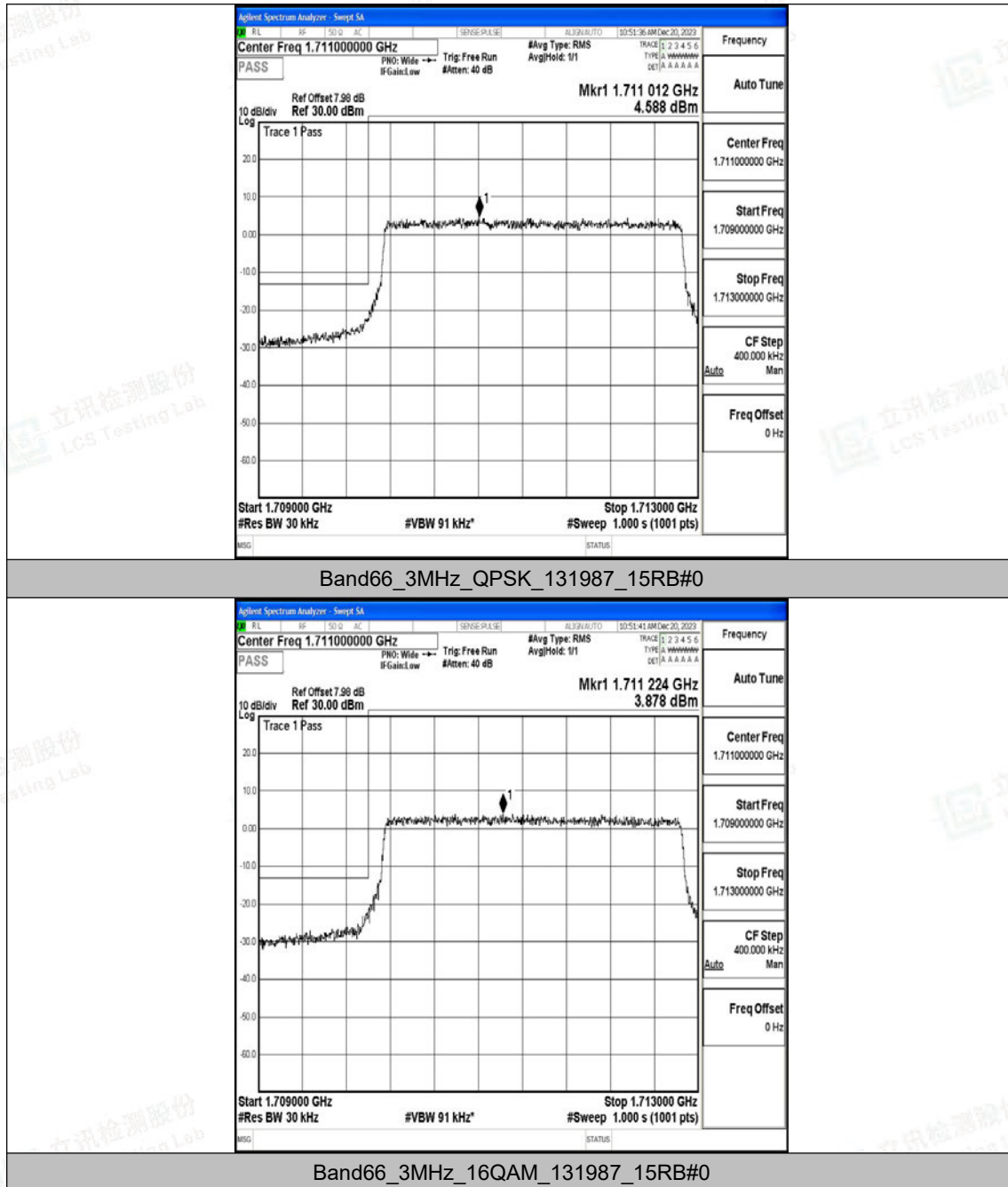


## Test Graphs







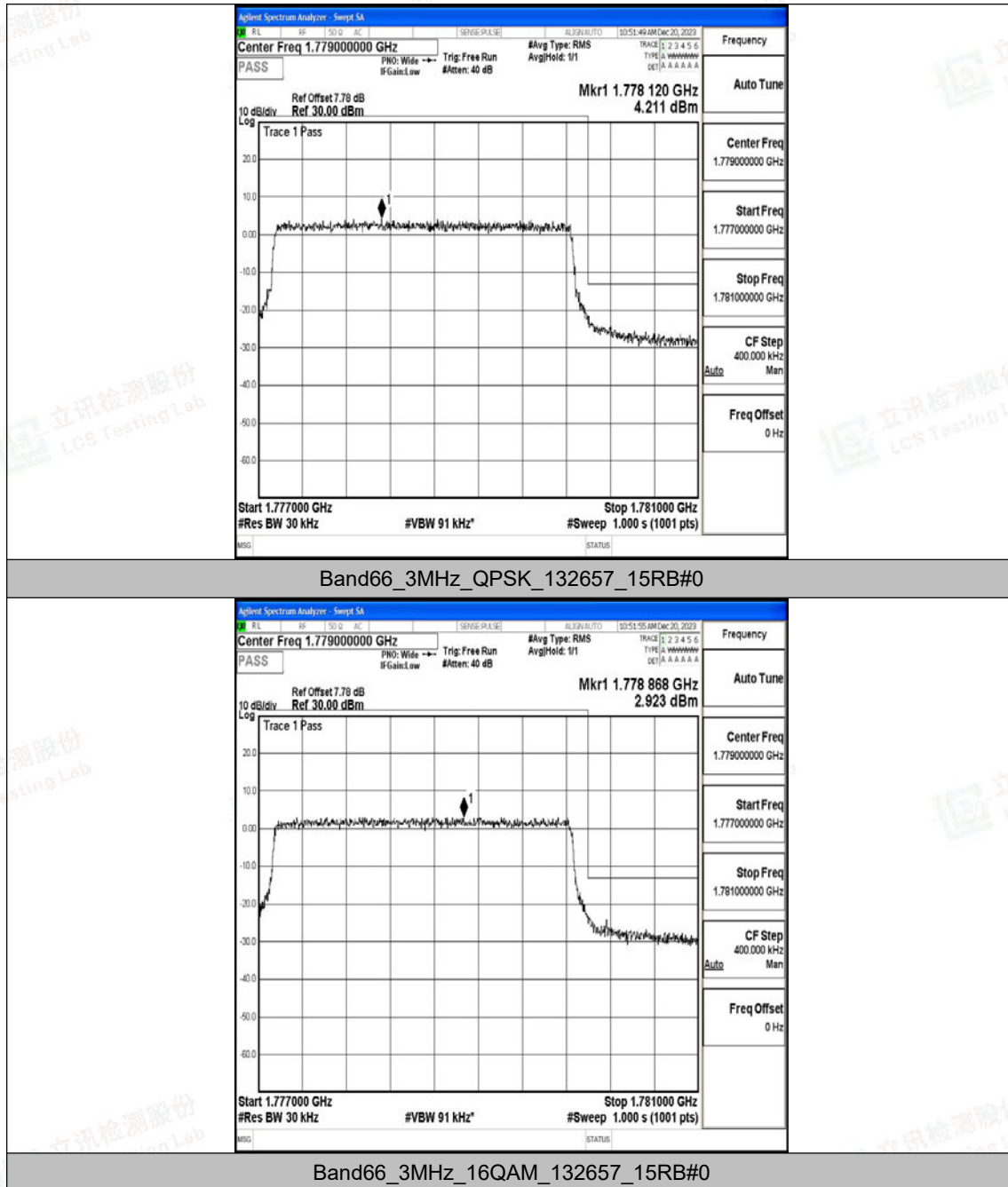


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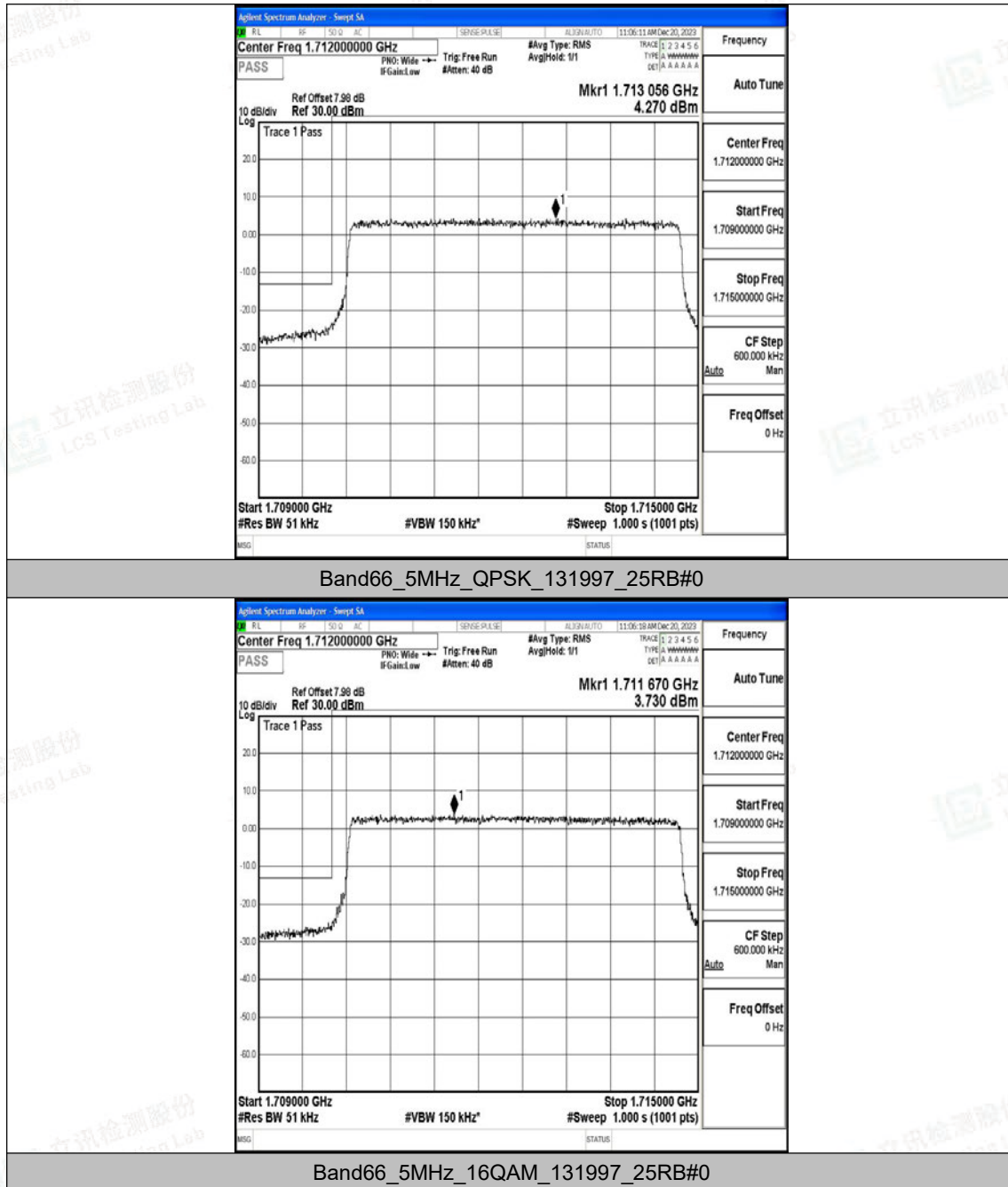


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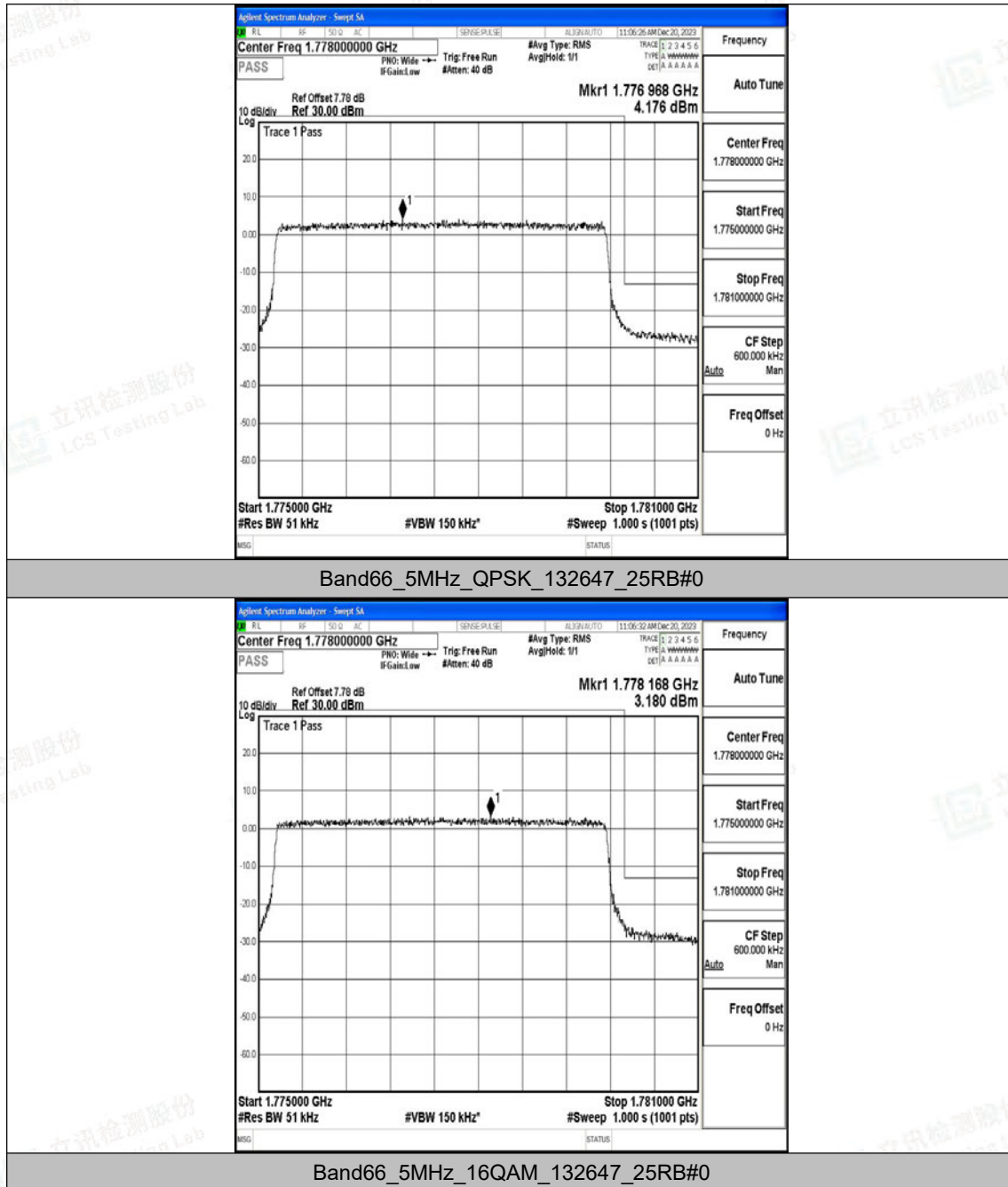


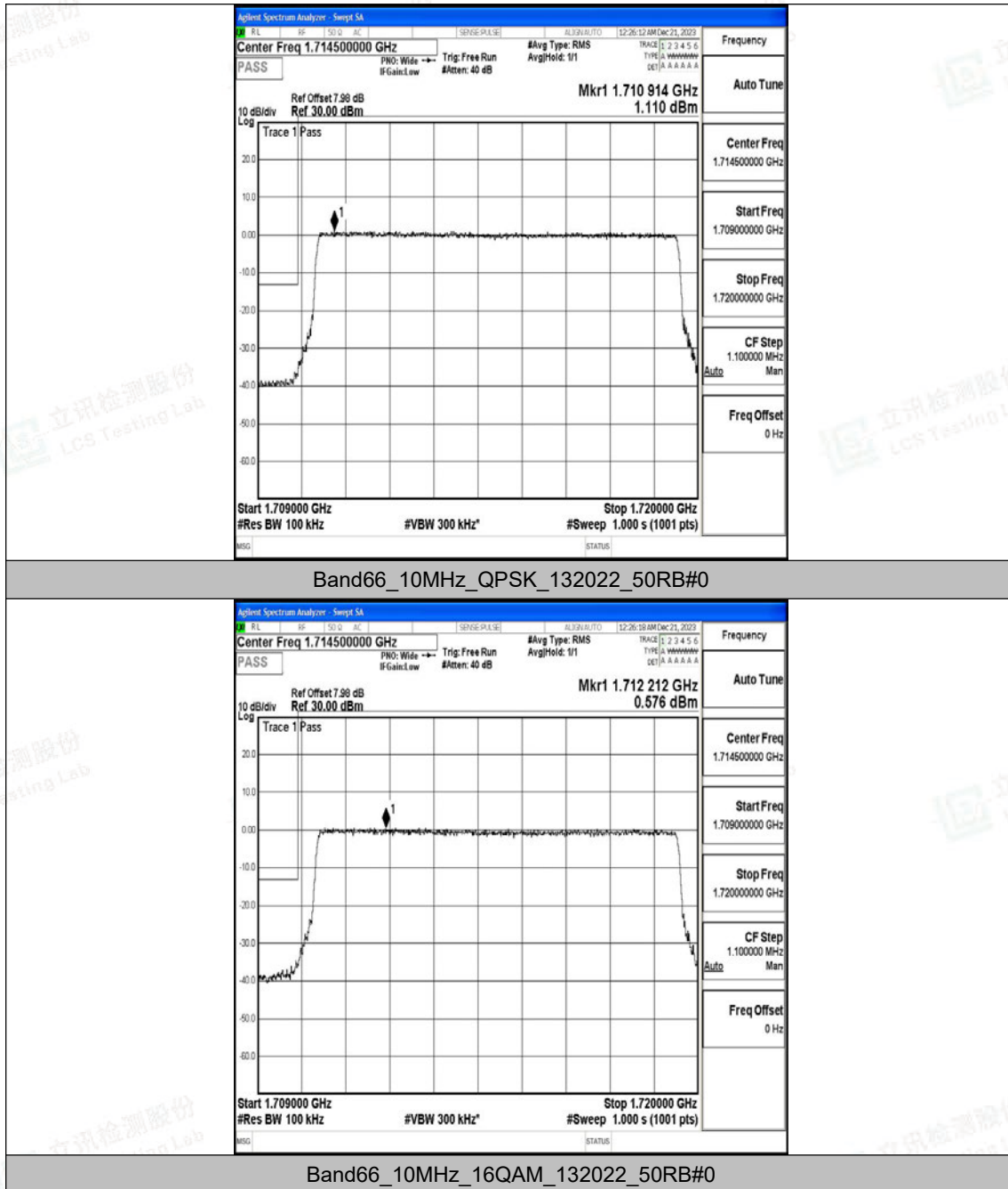
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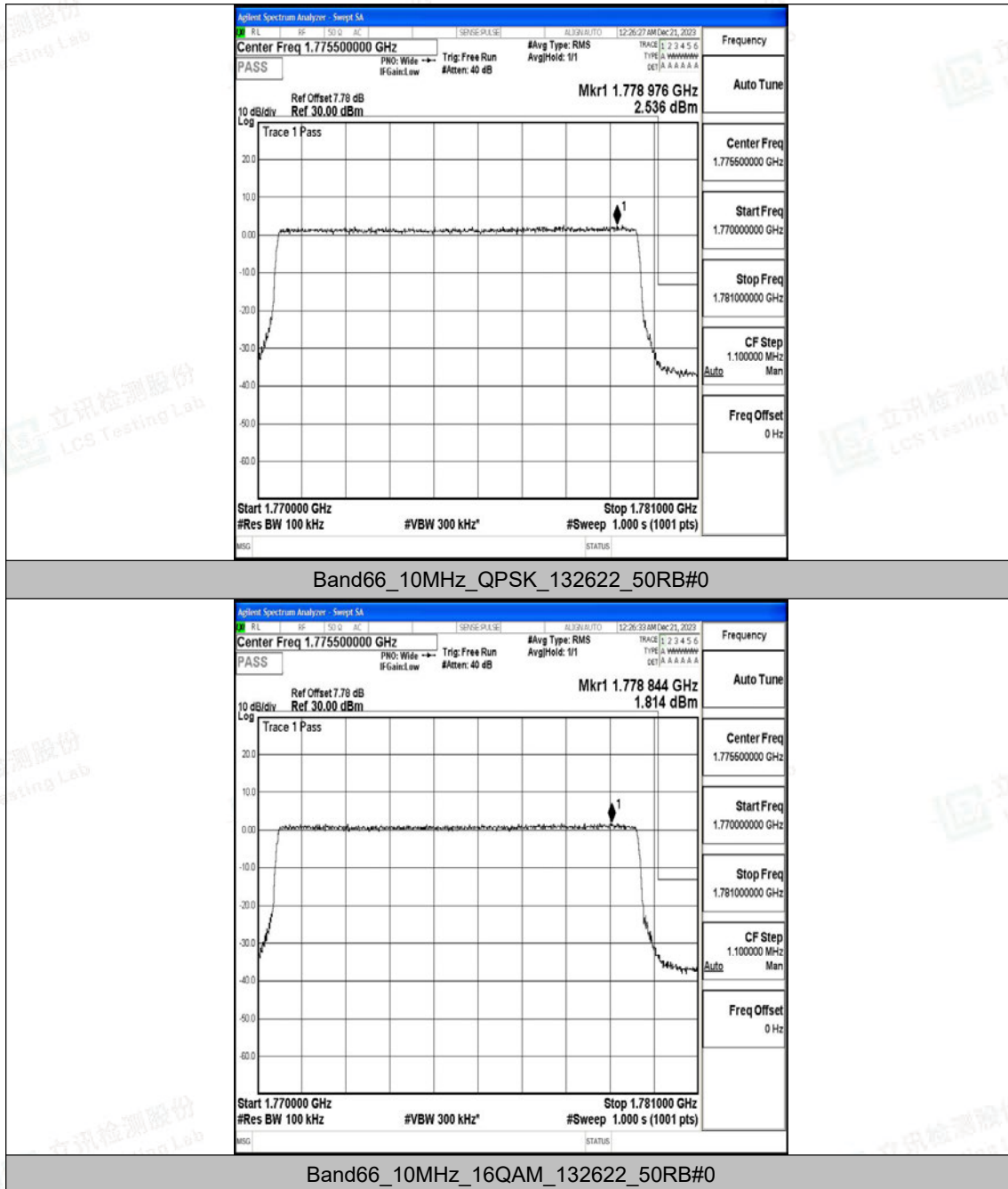
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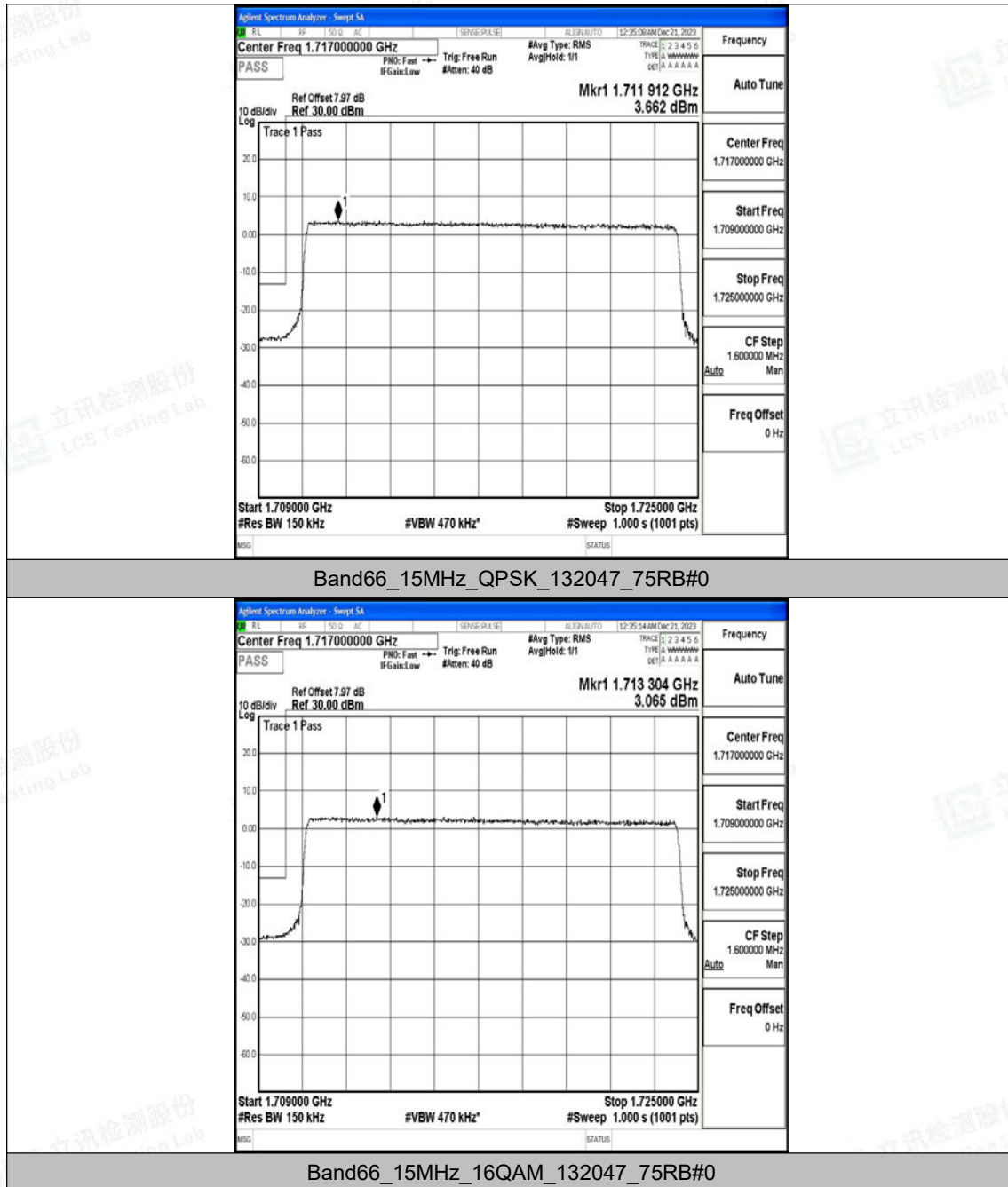
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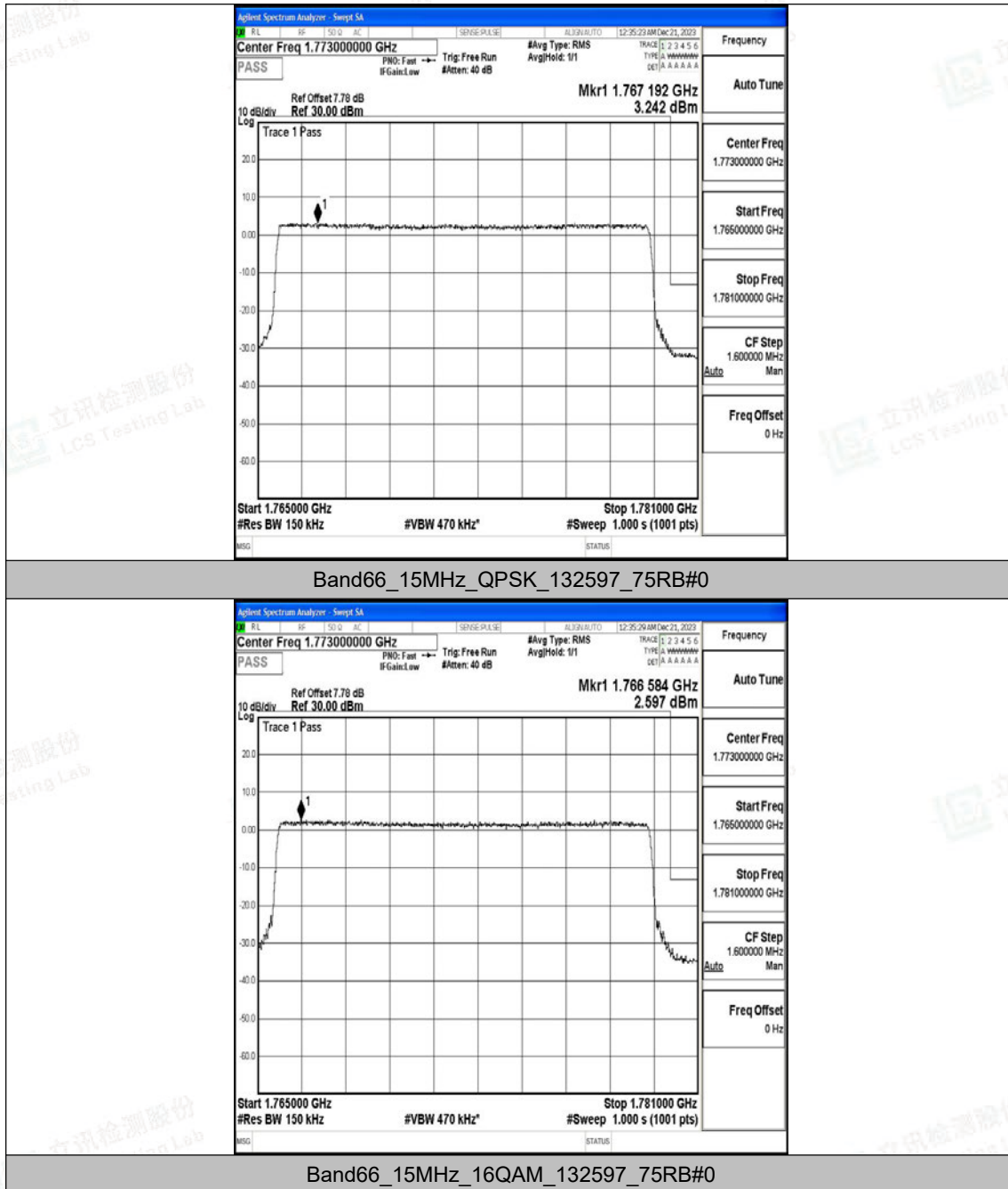










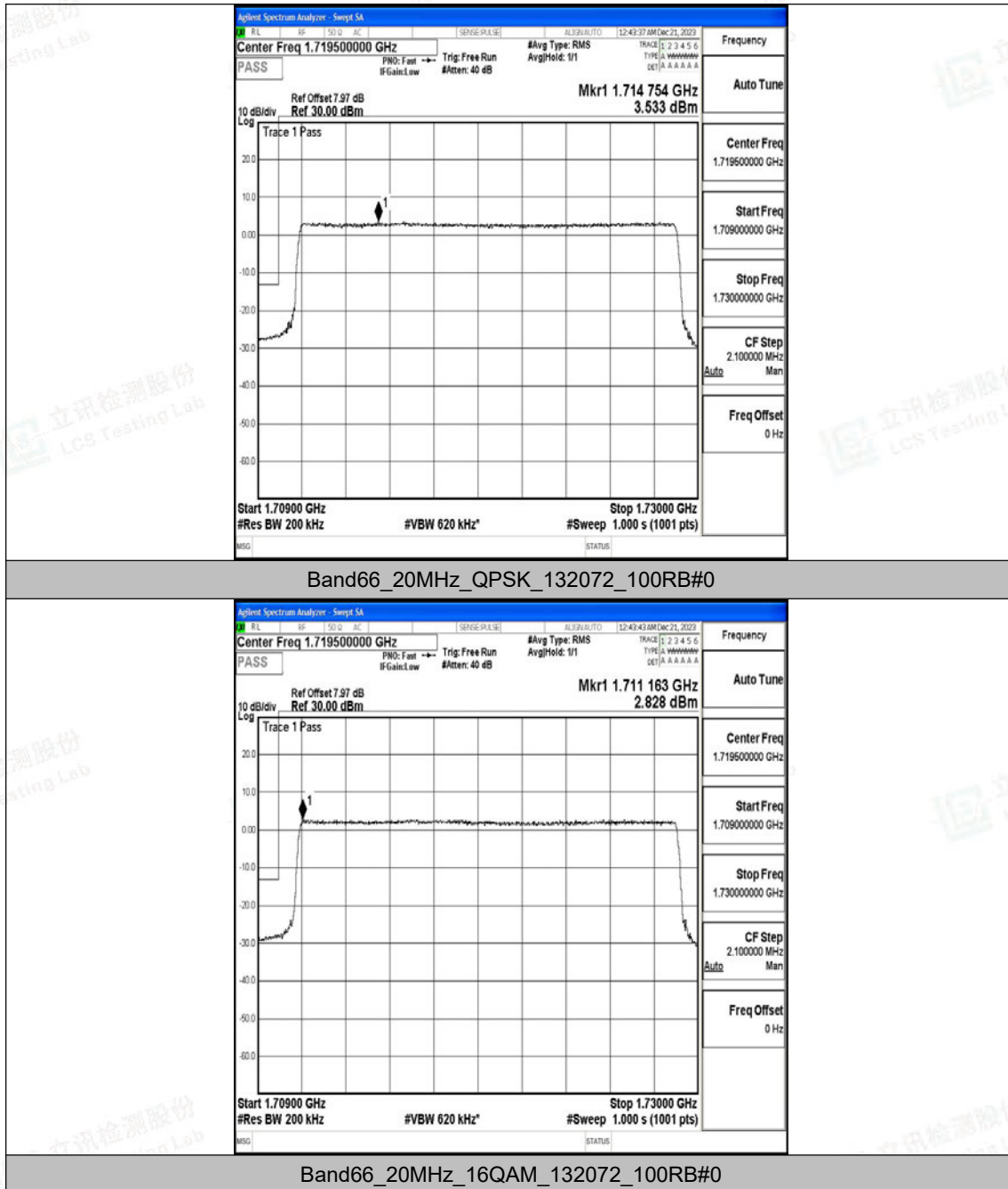


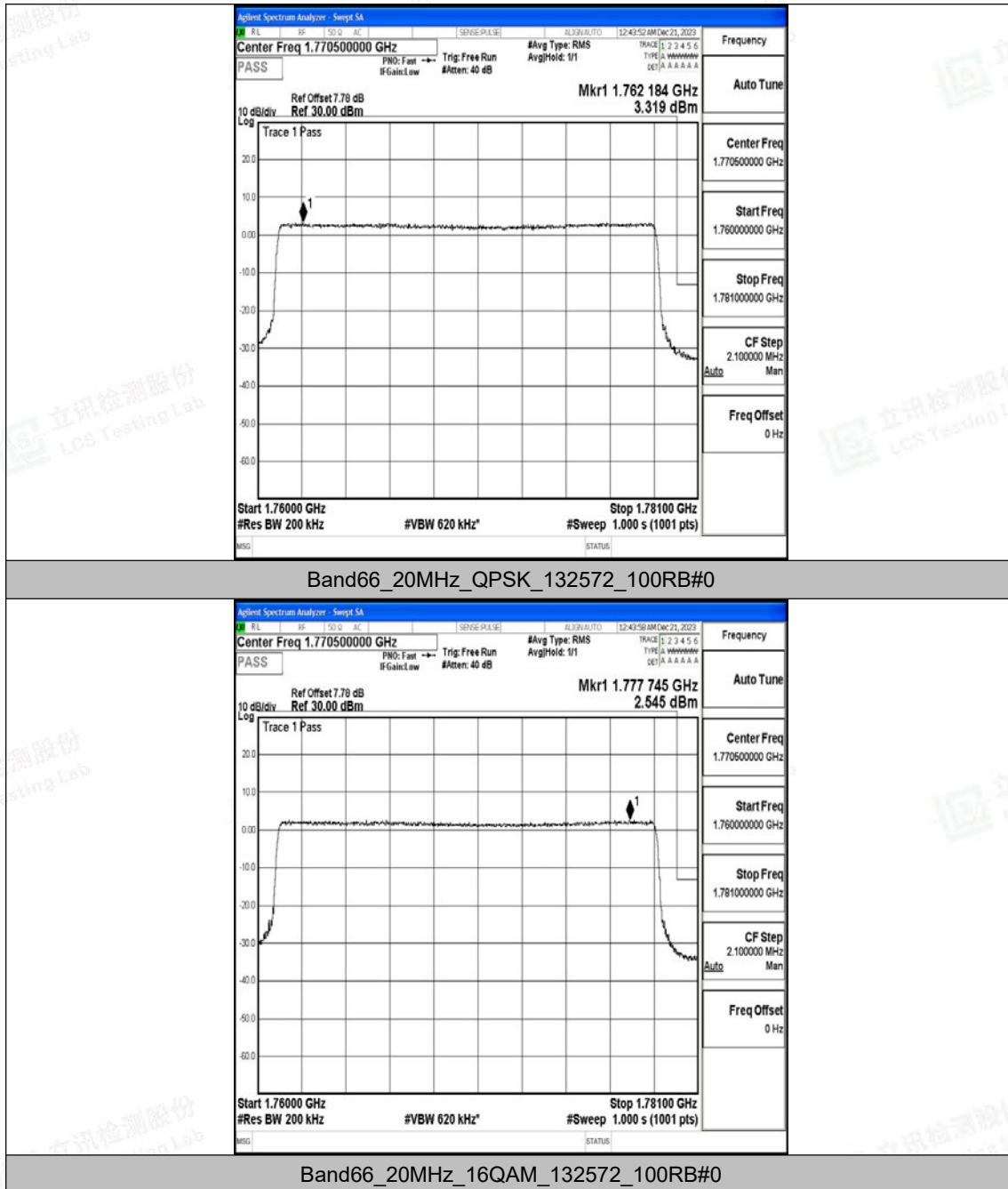
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## L.5 Conducted Spurious Emission

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-----------------|--------------|---------|
| Band66 | 1.4MHz    | QPSK       | 131979  | 1RB#0            | 0.009~0.15      | -55.56       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 1RB#0            | 0.15~30         | -53.38       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 1RB#0            | 30~1000         | -62.34       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 1RB#0            | 1000~3000       | -19.72       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 1RB#0            | 3000~20000      | -32.88       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1RB#0            | 0.009~0.15      | -57.48       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1RB#0            | 0.15~30         | -51.88       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1RB#0            | 30~1000         | -62.22       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1RB#0            | 1000~3000       | -26.45       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1RB#0            | 3000~20000      | -33.02       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1RB#0            | 0.009~0.15      | -56.69       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1RB#0            | 0.15~30         | -50.75       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1RB#0            | 30~1000         | -62.40       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1RB#0            | 1000~3000       | -17.55       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1RB#0            | 3000~20000      | -33.17       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1RB#0            | 0.009~0.15      | -56.41       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1RB#0            | 0.15~30         | -50.21       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1RB#0            | 30~1000         | -62.06       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1RB#0            | 1000~3000       | -23.68       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1RB#0            | 3000~20000      | -32.88       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1RB#0            | 0.009~0.15      | -57.84       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1RB#0            | 0.15~30         | -53.25       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1RB#0            | 30~1000         | -62.25       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1RB#0            | 1000~3000       | -23.65       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1RB#0            | 3000~20000      | -32.90       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 1RB#0            | 0.009~0.15      | -60.20       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 1RB#0            | 0.15~30         | -51.68       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 1RB#0            | 30~1000         | -62.16       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 1RB#0            | 1000~3000       | -27.62       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 1RB#0            | 3000~20000      | -33.05       | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 1RB#0            | 0.009~0.15      | -58.19       | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 1RB#0            | 0.15~30         | -53.05       | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 1RB#0            | 30~1000         | -62.09       | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 1RB#0            | 1000~3000       | -25.96       | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 1RB#0            | 3000~20000      | -33.39       | PASS    |



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