



## Appendix I: Test Data for E-UTRA Band 17

Product Name: Smart phone

Test Model: JK68

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.9° C   |
| Relative Humidity: | 52.3%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Jay Luo   |
| Supervised by:     | Nick Peng |



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## I.1 Conducted Output Power Data

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 24.37       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 23.22       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#12           | 24.40       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#12           | 23.20       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#24           | 24.44       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#24           | 23.29       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 12RB#0           | 23.27       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 12RB#0           | 22.26       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 12RB#6           | 23.26       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 12RB#6           | 22.27       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 12RB#13          | 23.24       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 12RB#13          | 22.25       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 23.32       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 22.31       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 24.30       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 23.29       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#12           | 24.31       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#12           | 23.34       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#24           | 24.25       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#24           | 23.27       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 12RB#0           | 23.28       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 12RB#0           | 22.36       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 12RB#6           | 23.29       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 12RB#6           | 22.36       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 12RB#13          | 23.21       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 12RB#13          | 22.28       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 23.31       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 22.26       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 24.29       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 23.13       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#12           | 24.29       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#12           | 23.11       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#24           | 24.33       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#24           | 23.16       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 12RB#0           | 23.25       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 12RB#0           | 22.28       | PASS    |



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|        |       |       |       |         |       |      |
|--------|-------|-------|-------|---------|-------|------|
| Band17 | 5MHz  | QPSK  | 23825 | 12RB#6  | 23.26 | PASS |
| Band17 | 5MHz  | 16QAM | 23825 | 12RB#6  | 22.27 | PASS |
| Band17 | 5MHz  | QPSK  | 23825 | 12RB#13 | 23.25 | PASS |
| Band17 | 5MHz  | 16QAM | 23825 | 12RB#13 | 22.27 | PASS |
| Band17 | 5MHz  | QPSK  | 23825 | 25RB#0  | 23.29 | PASS |
| Band17 | 5MHz  | 16QAM | 23825 | 25RB#0  | 22.28 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 1RB#0   | 24.22 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#0   | 23.13 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 1RB#24  | 24.26 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#24  | 23.11 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 1RB#49  | 24.21 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#49  | 23.04 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 25RB#0  | 23.26 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 25RB#0  | 22.26 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 25RB#12 | 23.26 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 25RB#12 | 22.26 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 25RB#25 | 23.23 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 25RB#25 | 22.24 | PASS |
| Band17 | 10MHz | QPSK  | 23780 | 50RB#0  | 23.24 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 50RB#0  | 22.24 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#0   | 24.20 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#0   | 22.99 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#24  | 24.18 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#24  | 22.98 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#49  | 24.19 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#49  | 23.03 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 25RB#0  | 23.24 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 25RB#0  | 22.24 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 25RB#12 | 23.24 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 25RB#12 | 22.26 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 25RB#25 | 23.20 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 25RB#25 | 22.20 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 50RB#0  | 23.23 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 50RB#0  | 22.22 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#0   | 24.34 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#0   | 23.30 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#24  | 24.15 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#24  | 23.17 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#49  | 24.27 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#49  | 23.28 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 25RB#0  | 23.28 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 25RB#0  | 22.26 | PASS |



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|        |       |       |       |         |       |      |
|--------|-------|-------|-------|---------|-------|------|
| Band17 | 10MHz | QPSK  | 23800 | 25RB#12 | 23.28 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 25RB#12 | 22.23 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 25RB#25 | 23.21 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 25RB#25 | 22.16 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 50RB#0  | 23.23 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 50RB#0  | 22.21 | PASS |





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

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 4.13       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 4.86       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 5.29       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 6.00       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 4.12       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 4.86       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 5.23       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 5.91       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 4.01       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#0            | 4.18       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 1RB#0            | 5.31       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 5.25       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 6.01       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 1RB#0            | 4.14       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 1RB#0            | 5.05       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 5.23       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 5.97       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 4.79       | 13        | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 5.18       | 13        | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 5.87       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 1RB#0            | 3.99       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 1RB#0            | 4.85       | 13        | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 5.20       | 13        | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 5.99       | 13        | PASS    |



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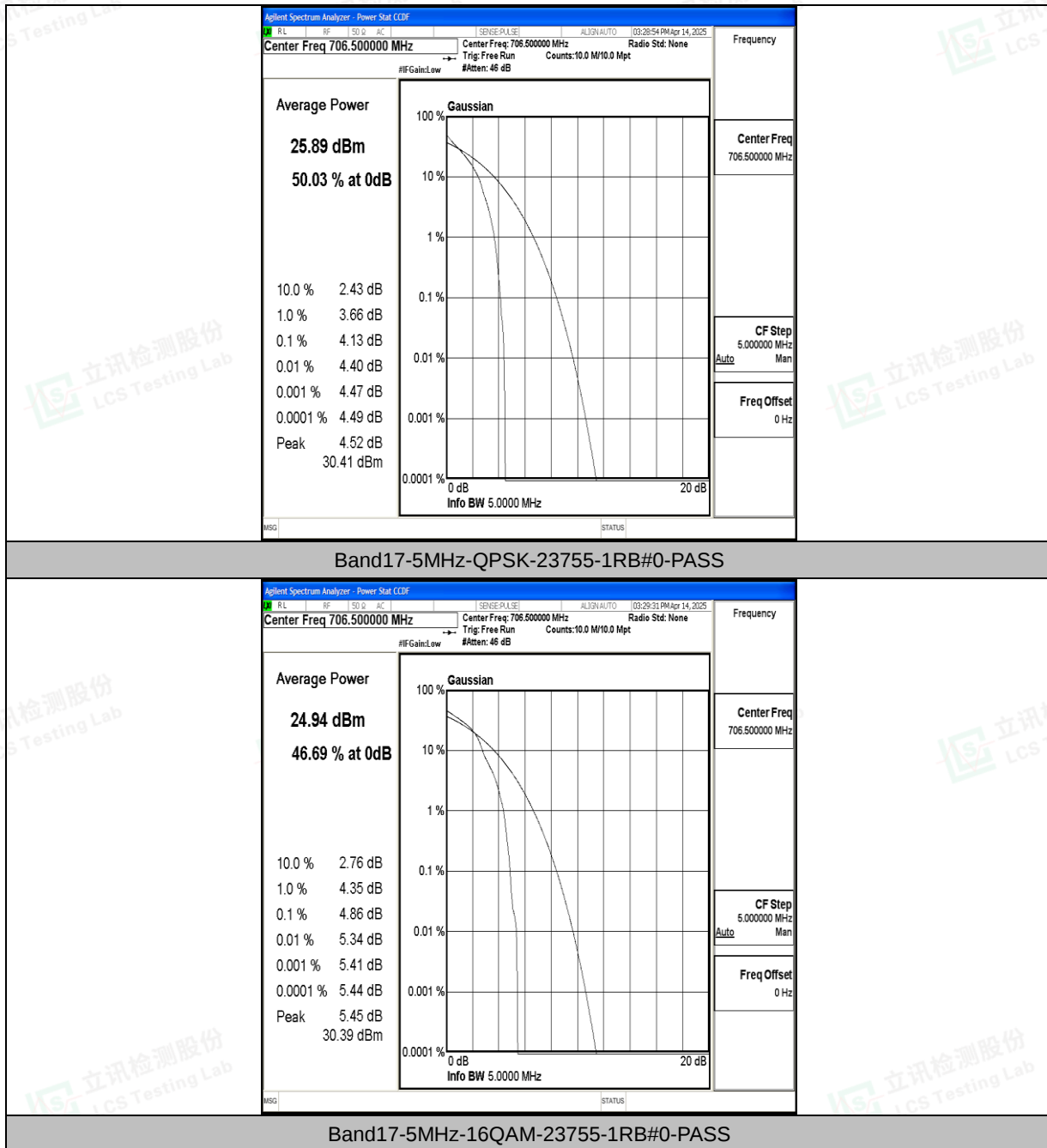
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## Test Graphs

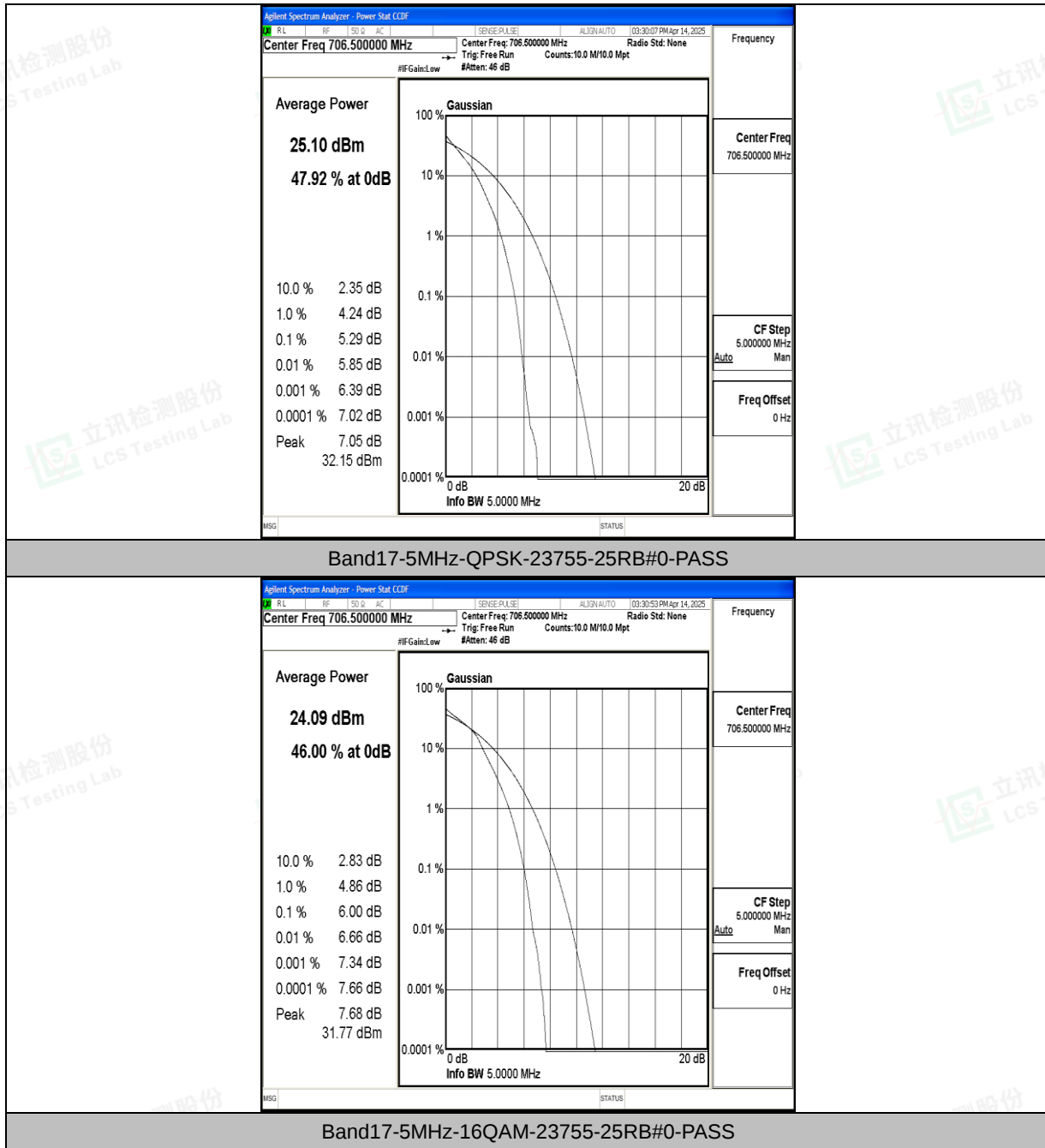


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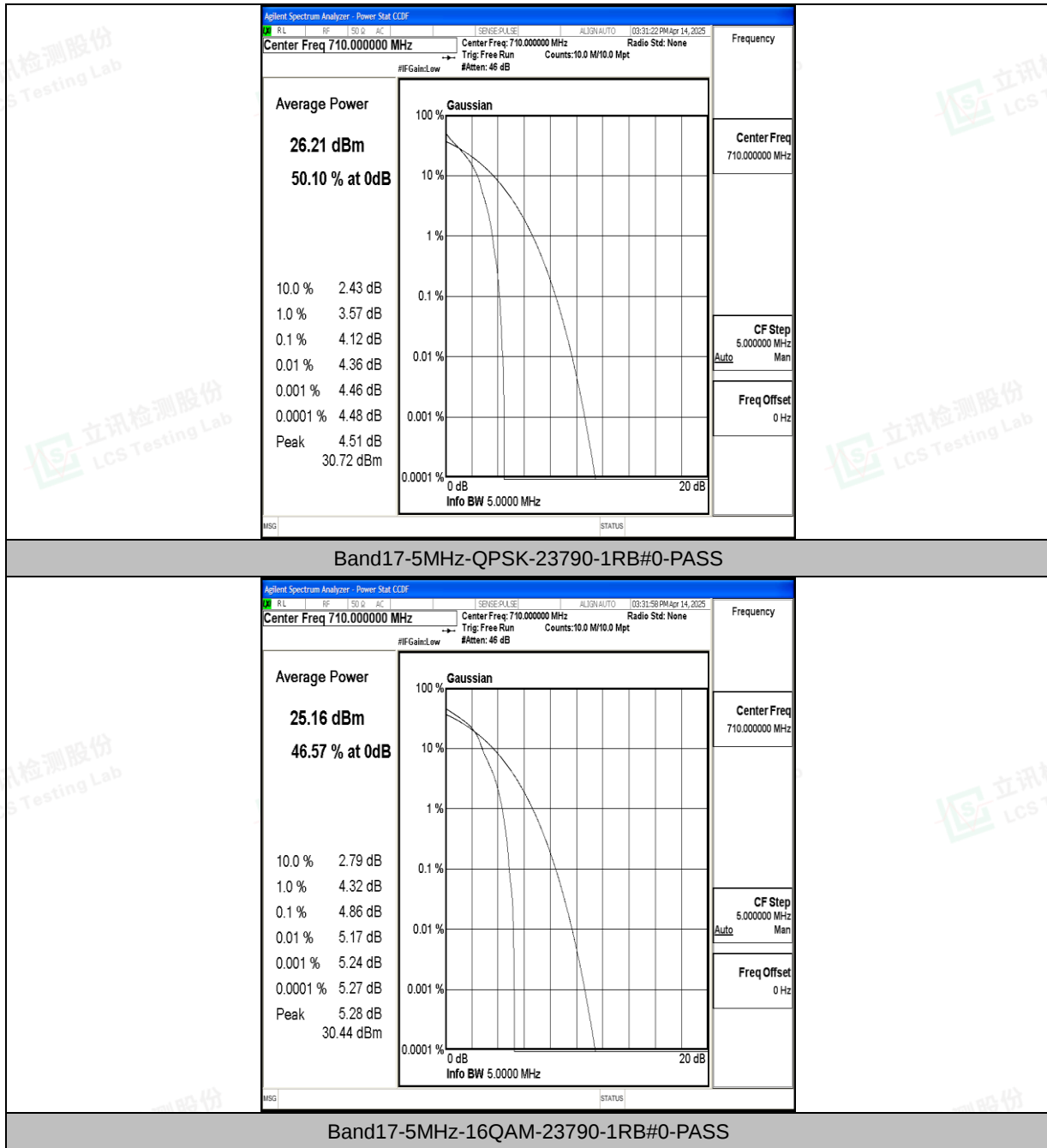


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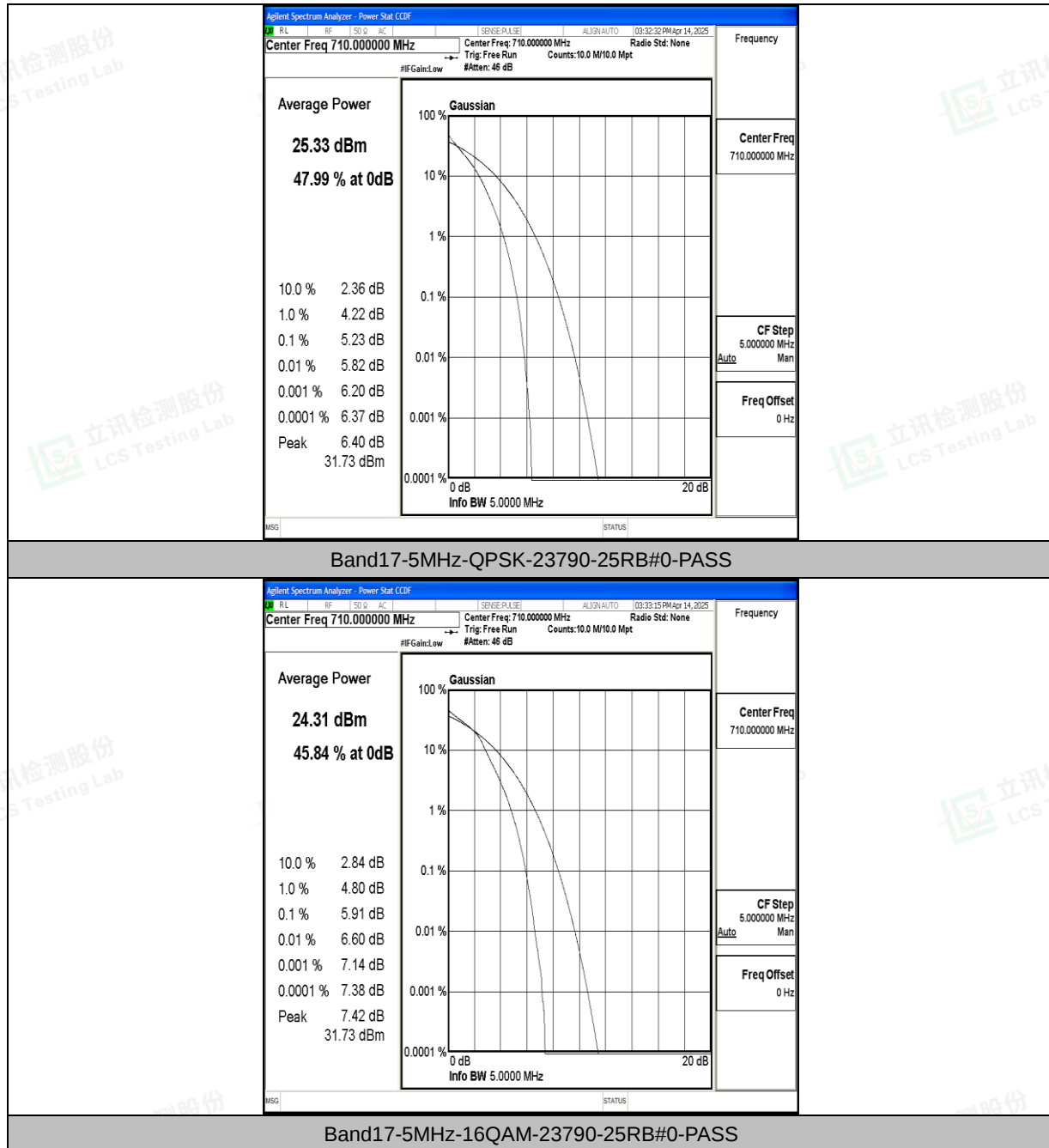


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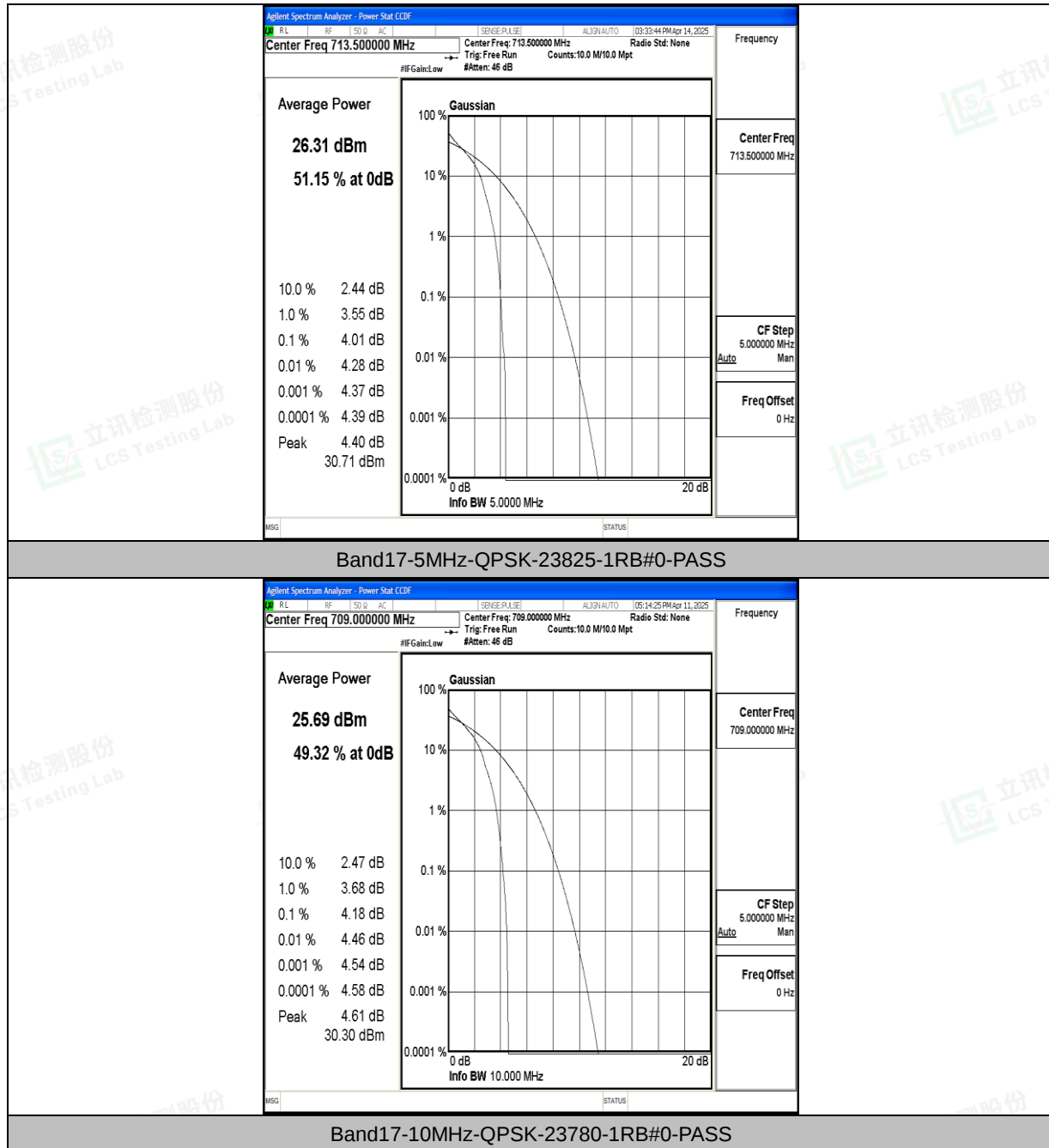


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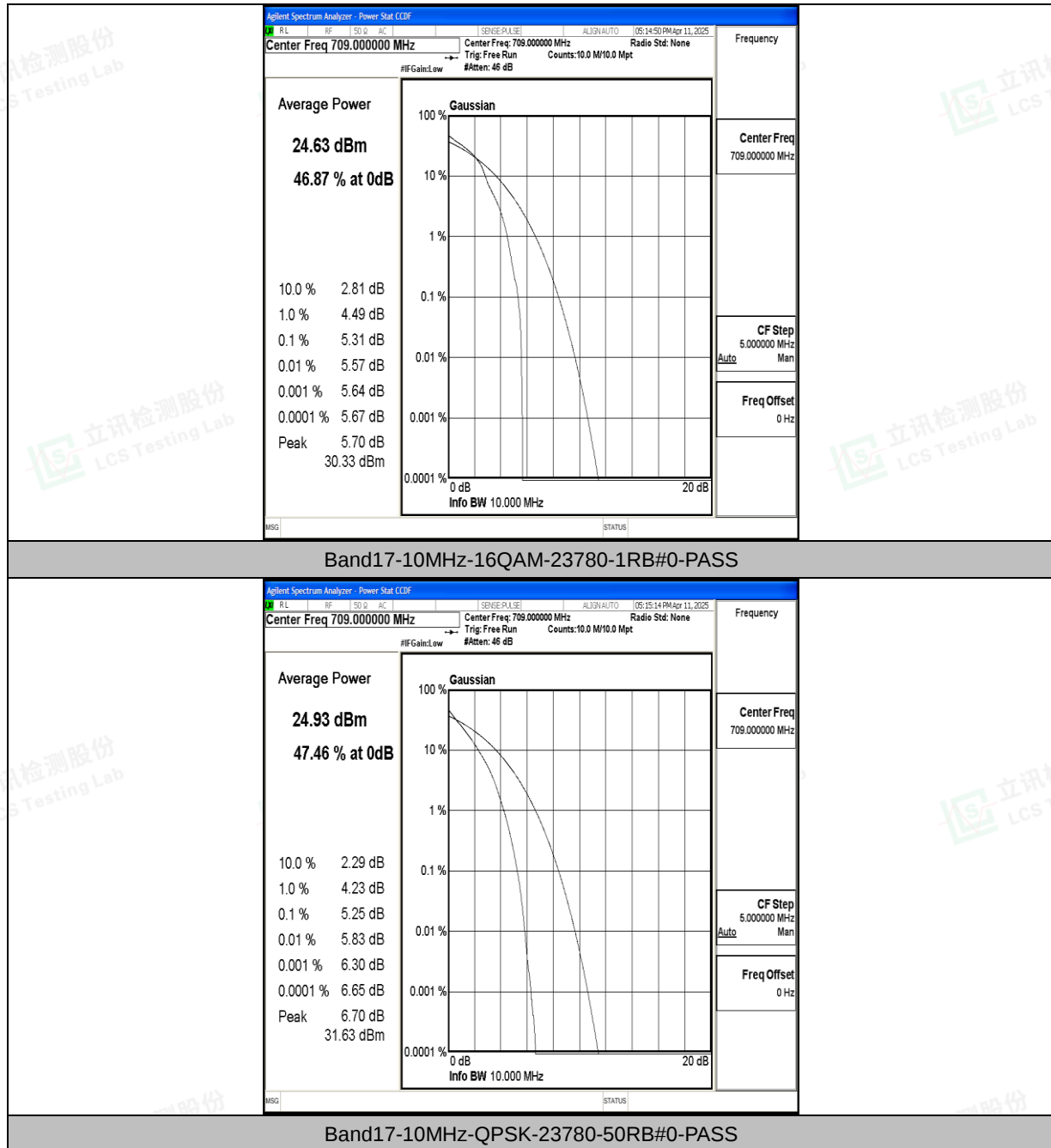


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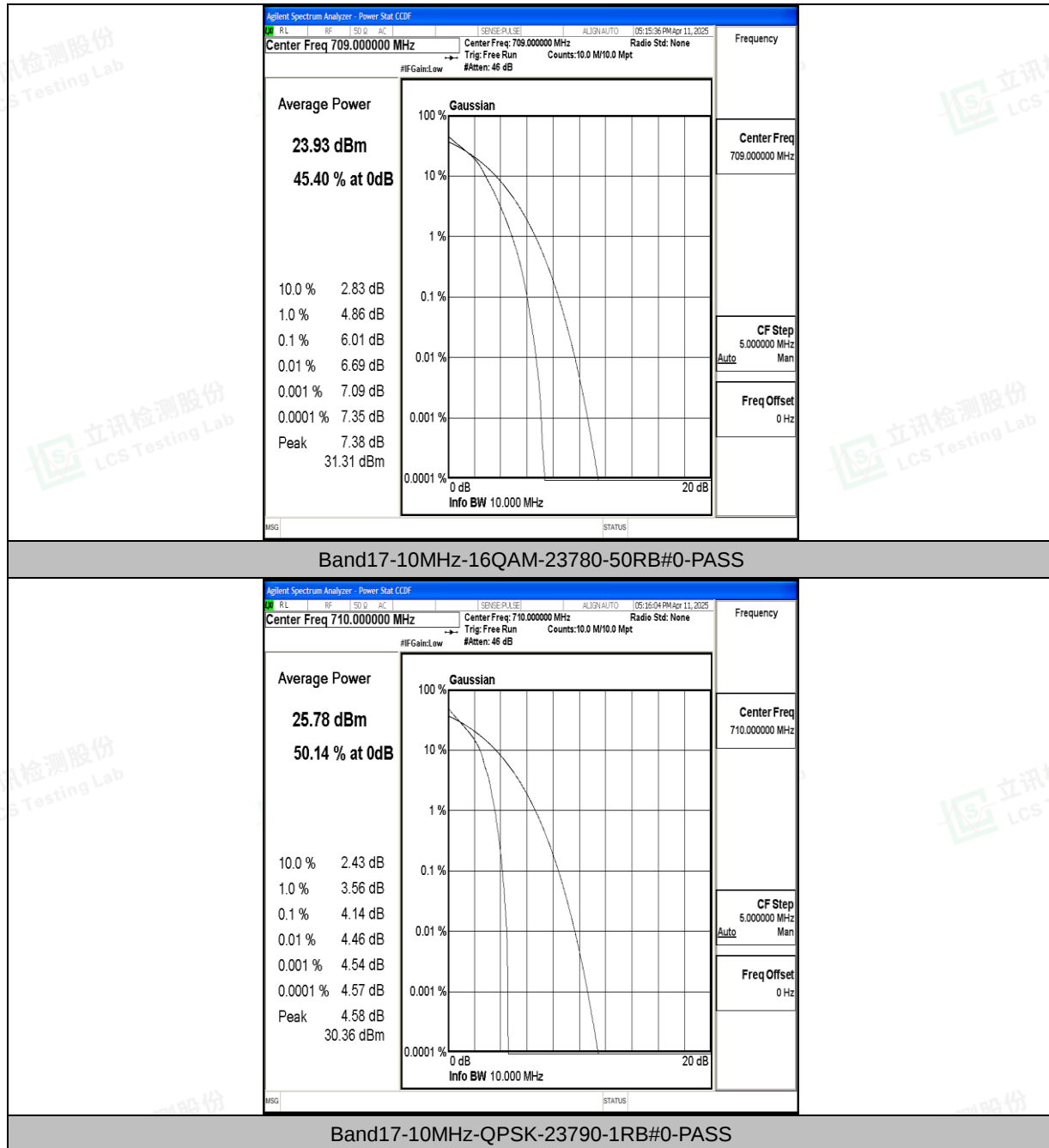


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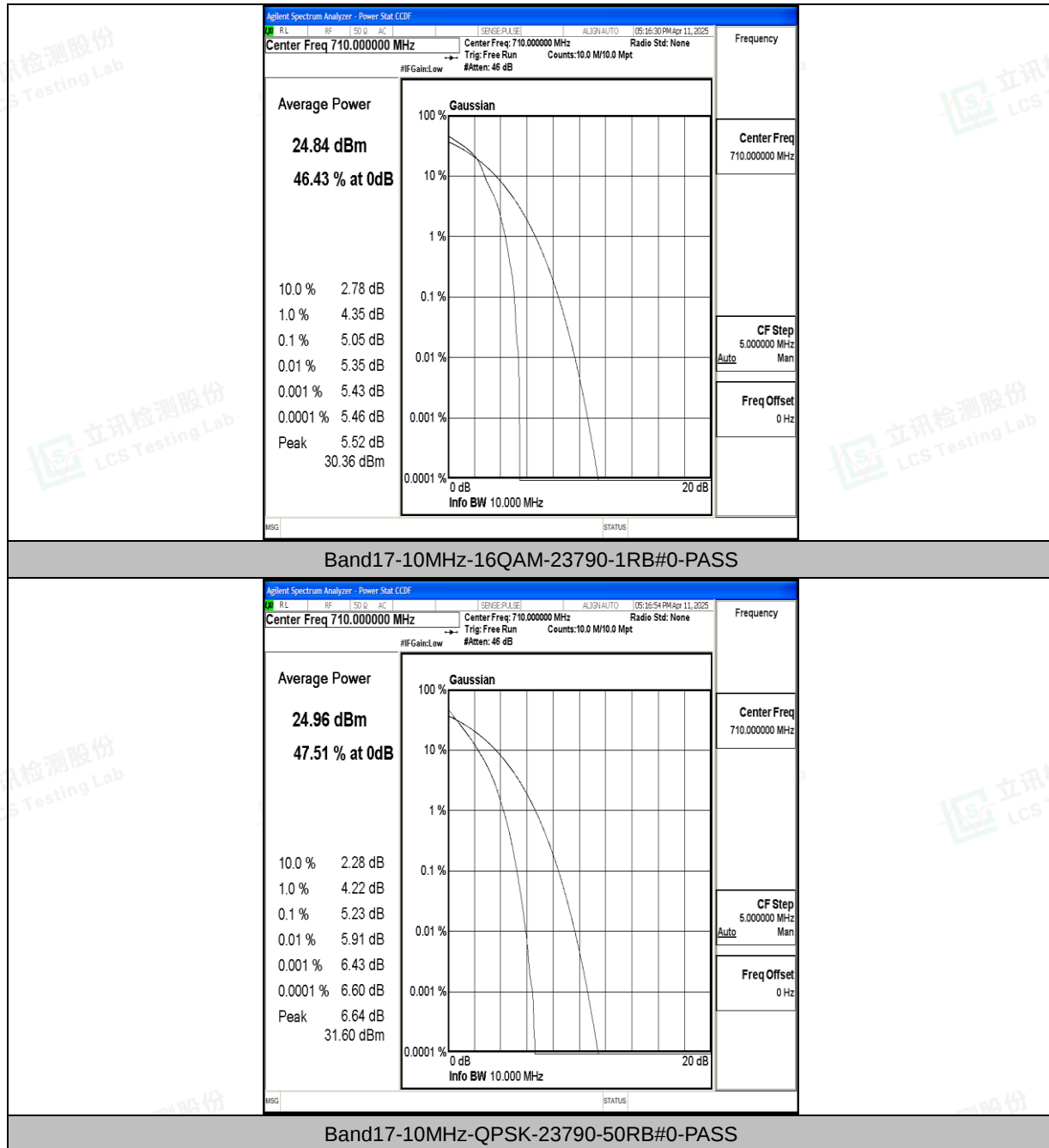


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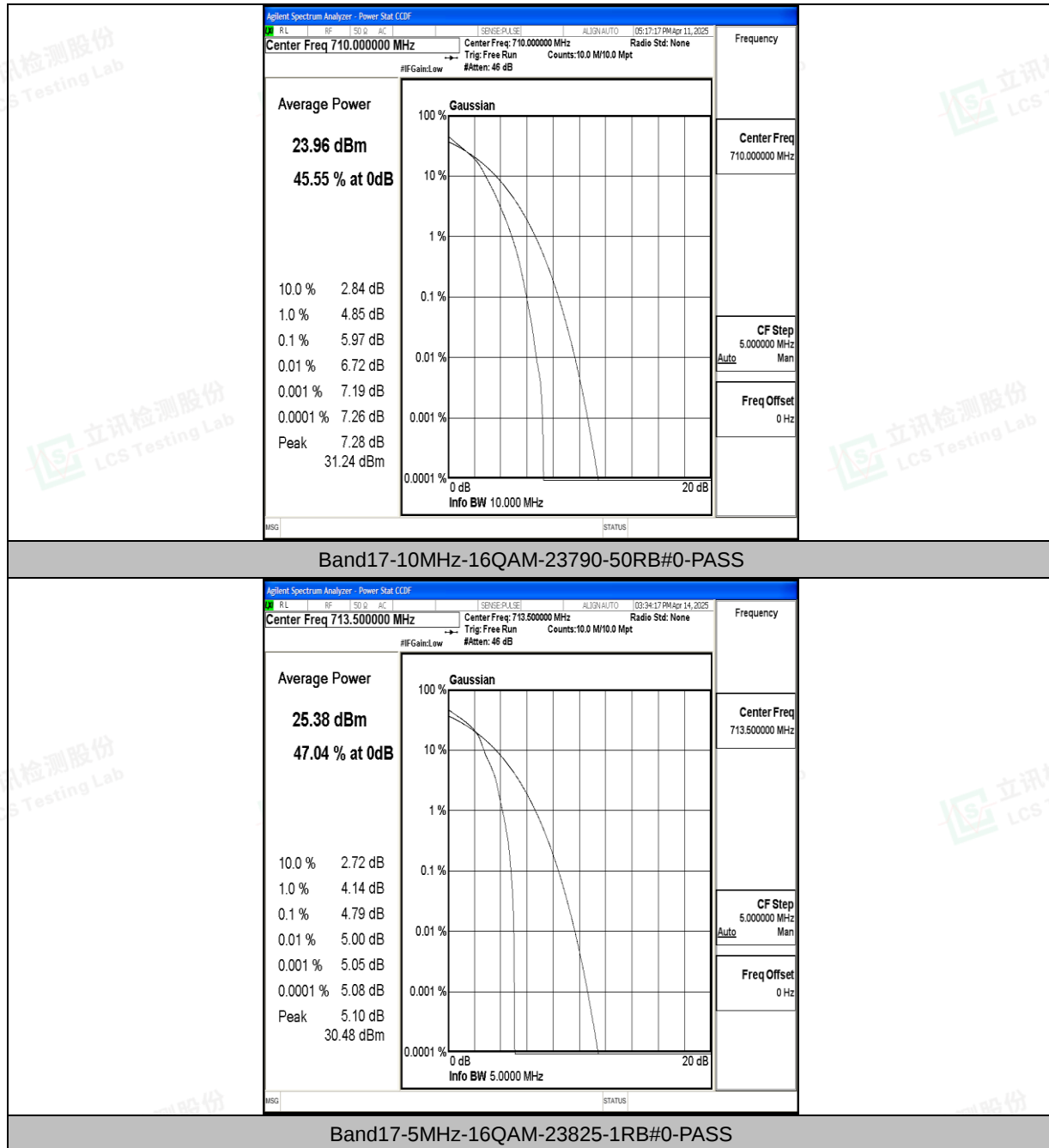


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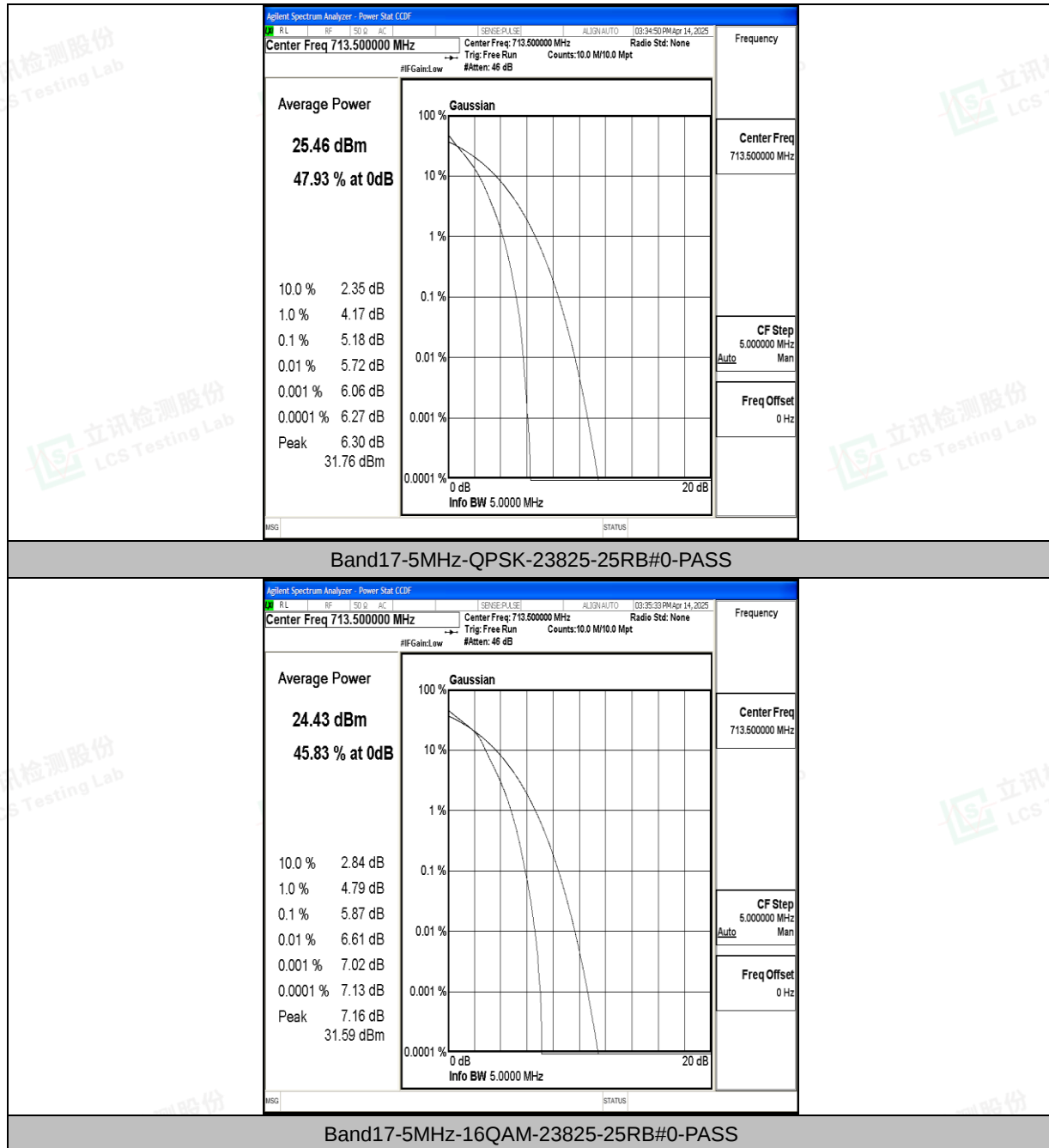


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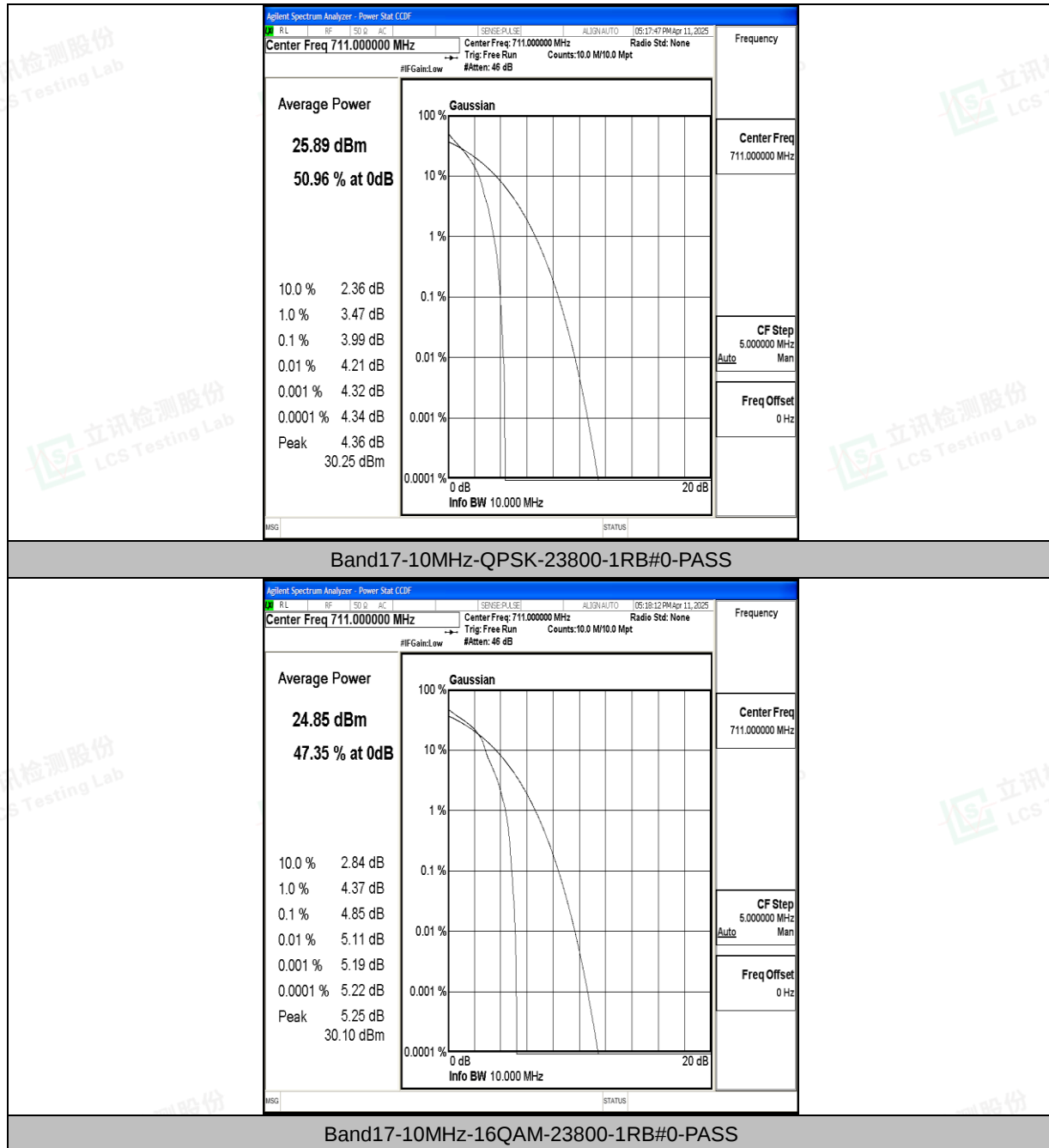


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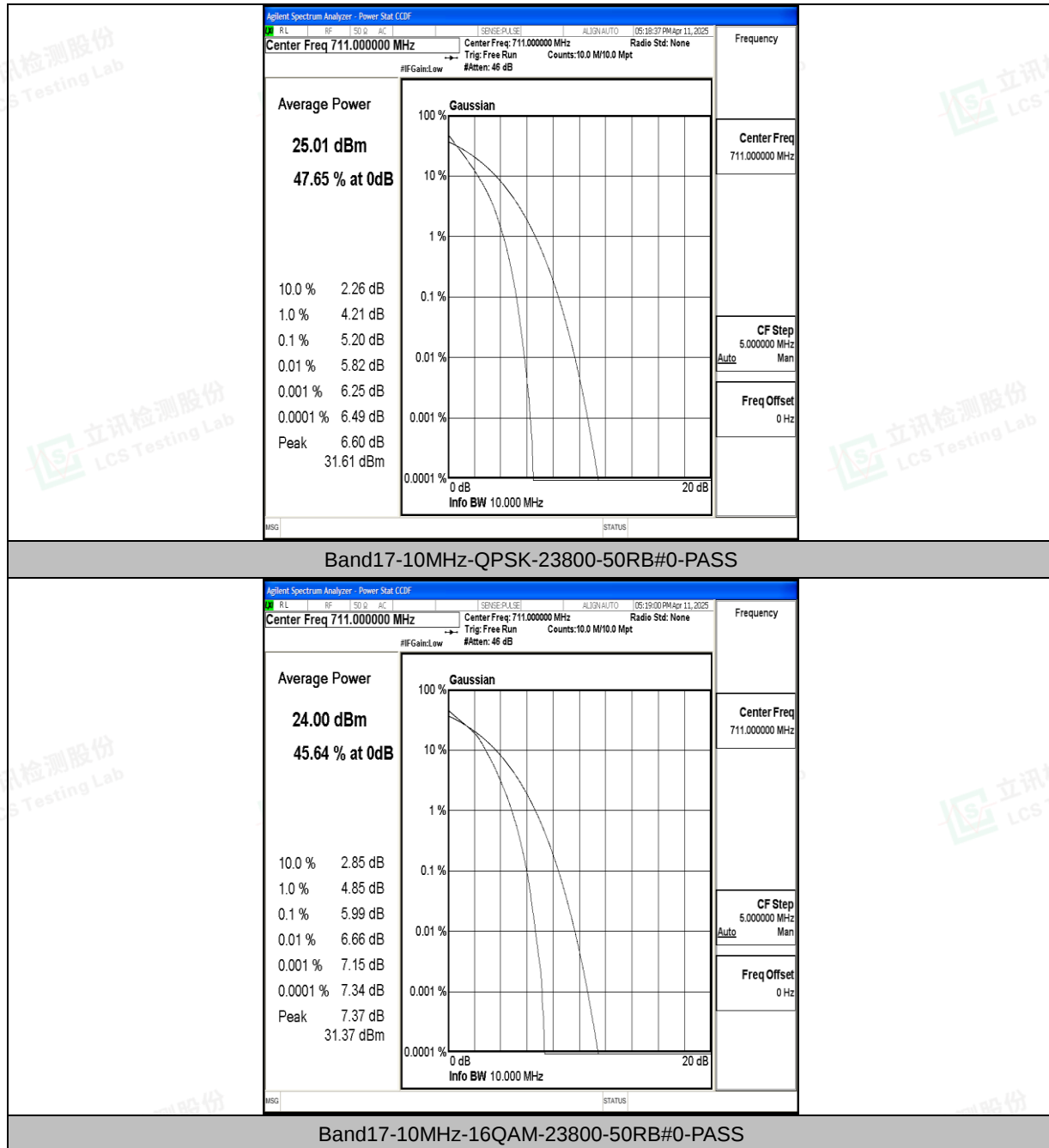


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### I.3 26dB Bandwidth and Occupied Bandwidth

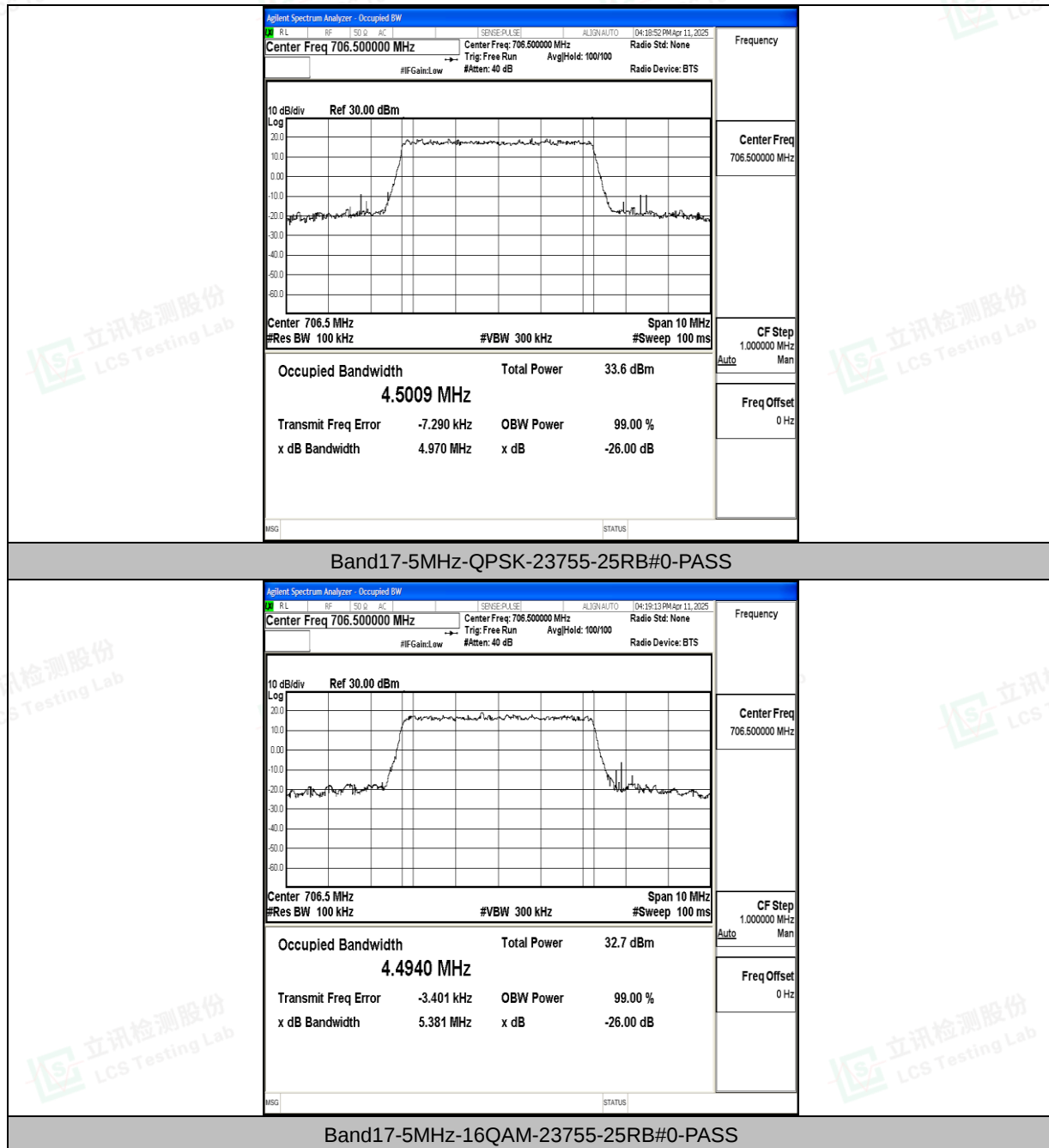
#### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 4.5009                   | 4.970                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 4.4940                   | 5.381                | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 4.5086                   | 4.991                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 4.4982                   | 4.936                | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 4.4944                   | 5.428                | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 4.5092                   | 4.995                | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 8.9942                   | 9.862                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 8.9825                   | 9.830                | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 8.9857                   | 9.789                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 50RB#0           | 8.9812                   | 9.810                | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 8.9620                   | 9.795                | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 8.9717                   | 9.745                | PASS    |





## Test Graphs

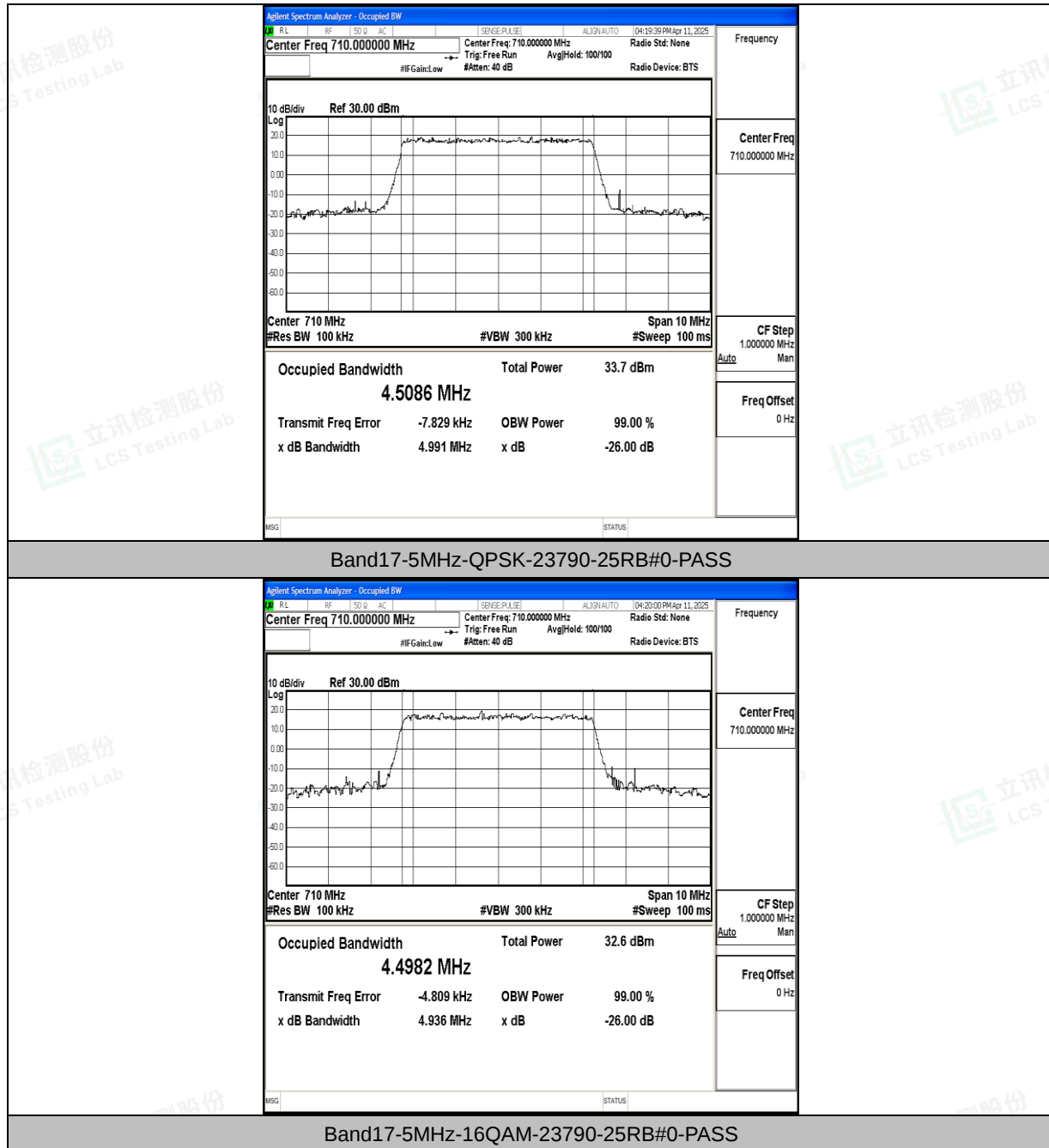


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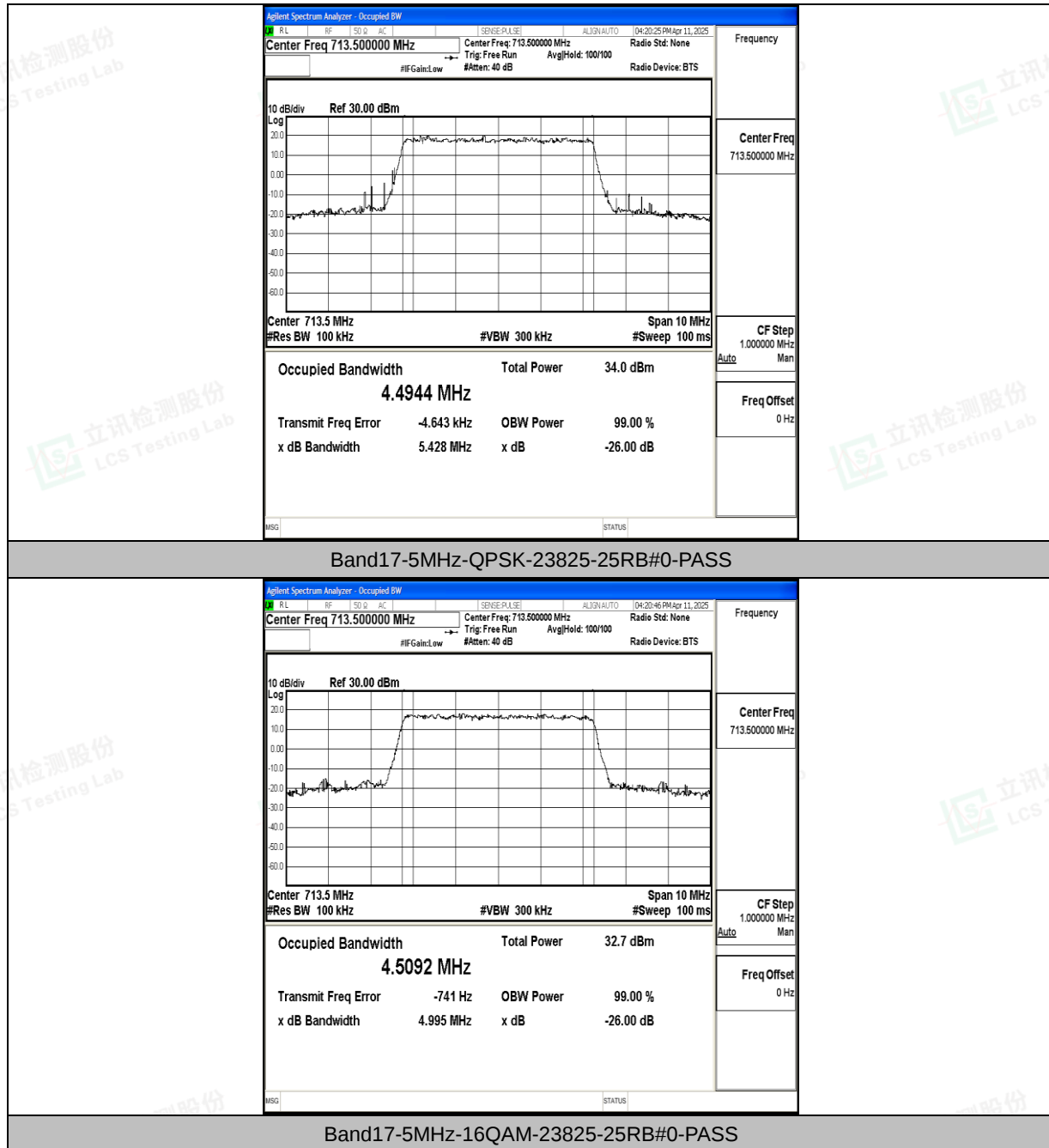


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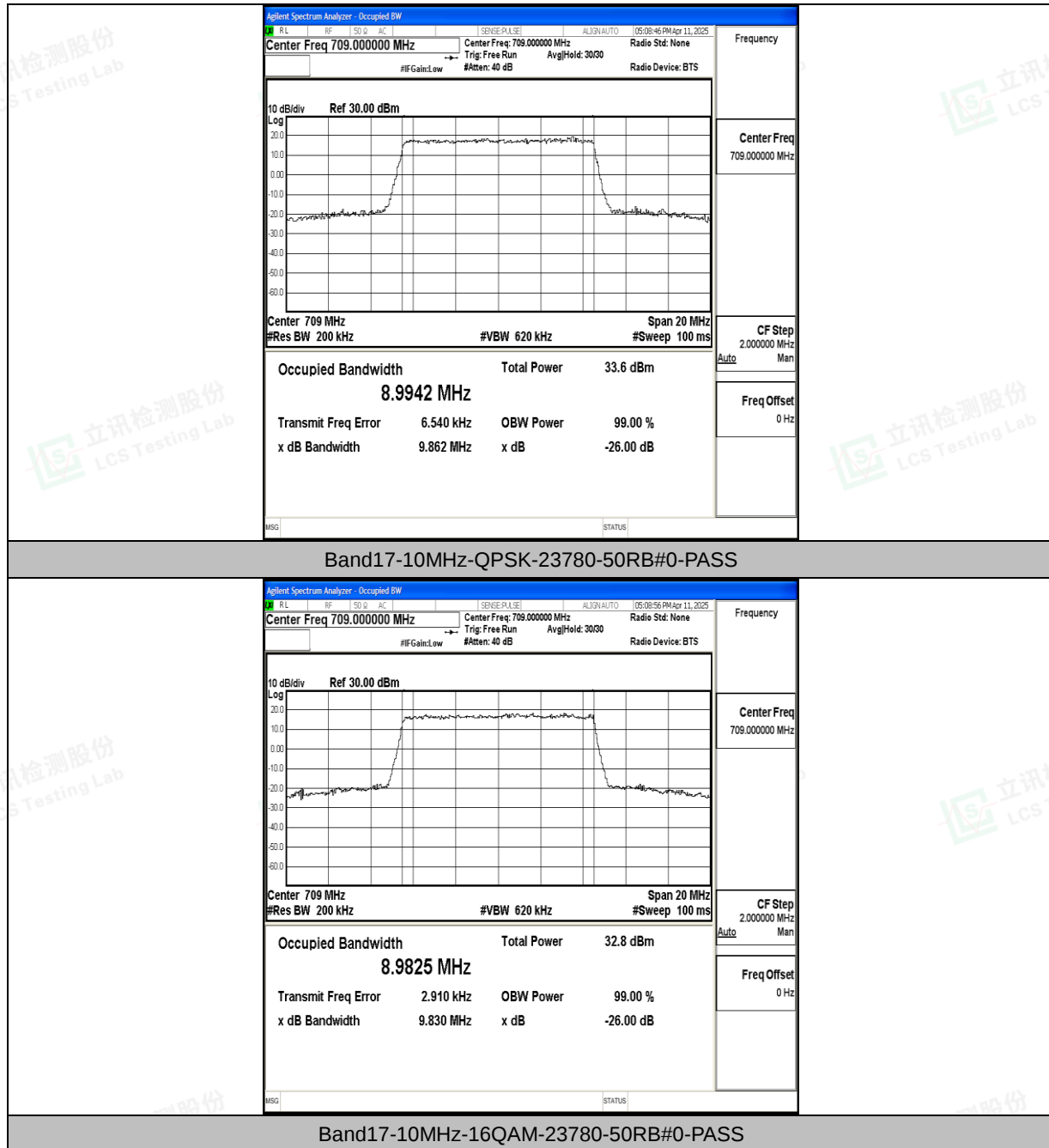


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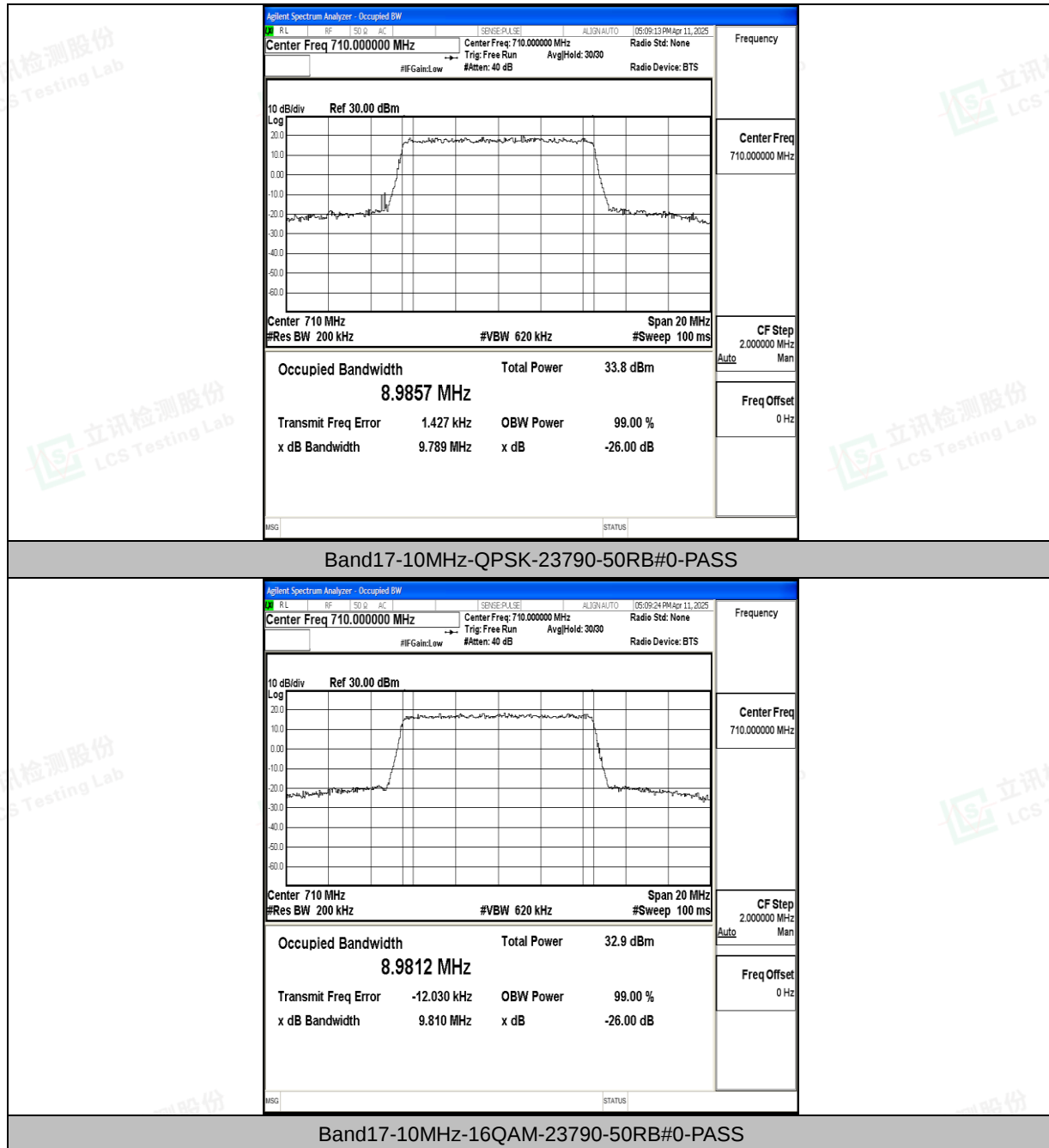


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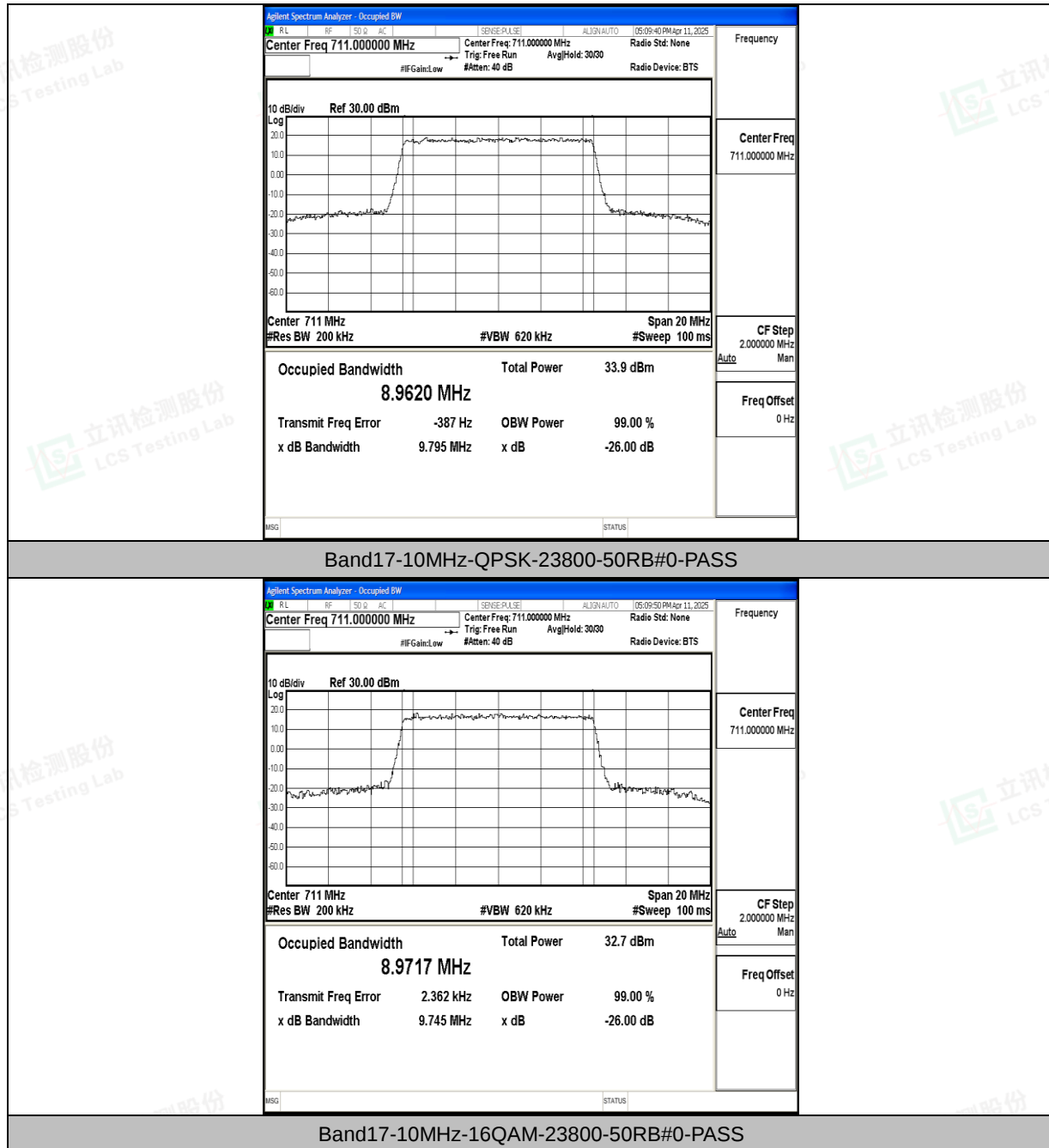


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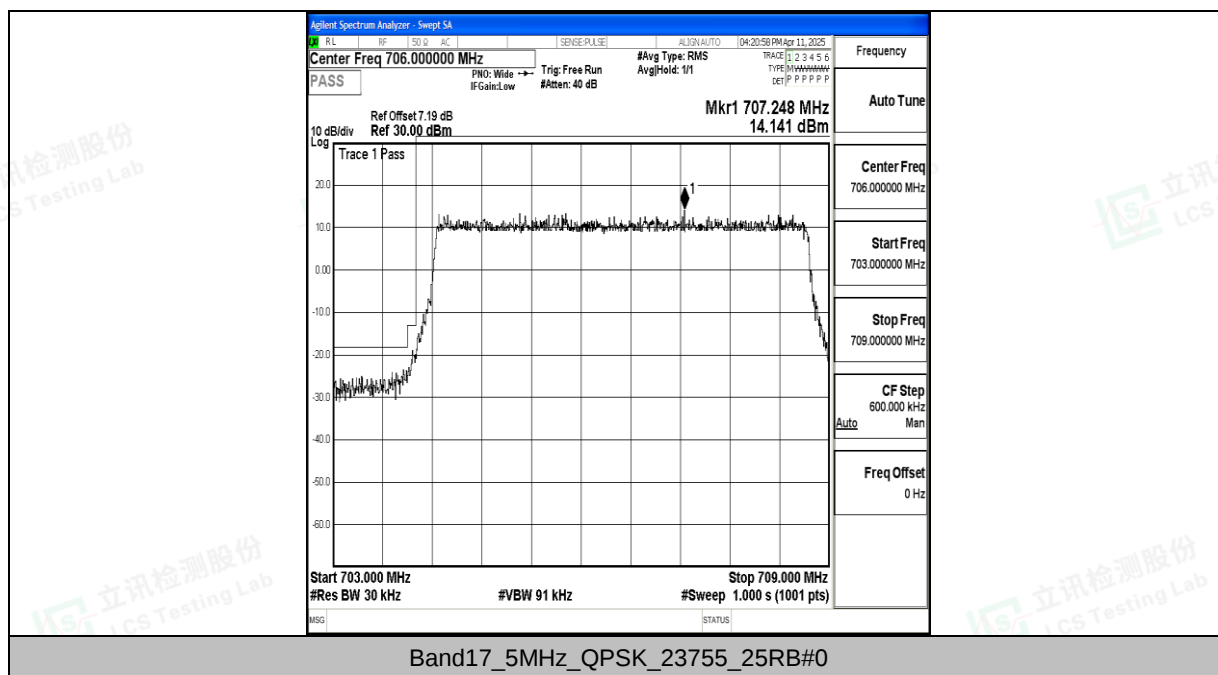


## I.4 Band Edge

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Peak Frequency | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|----------------|-------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 703.86         | -23.57      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 704.00         | -19.64      | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 716.30         | -22.34      | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 716.14         | -23.62      | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 703.81         | -26.49      | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 50RB#0           | 703.55         | -29.46      | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 716.46         | -22.21      | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 50RB#0           | 716.74         | -30.75      | PASS    |

### Test Graphs

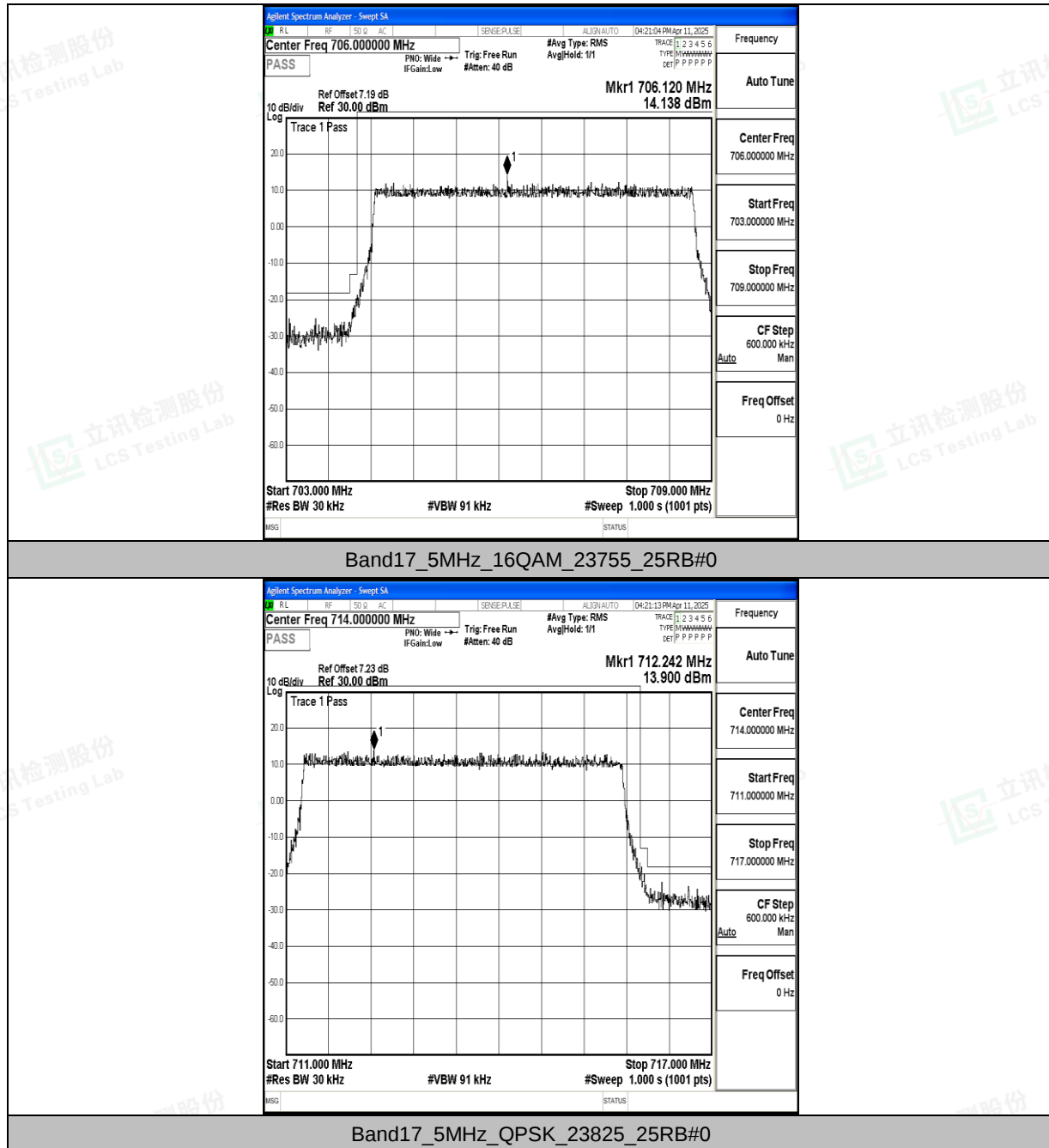


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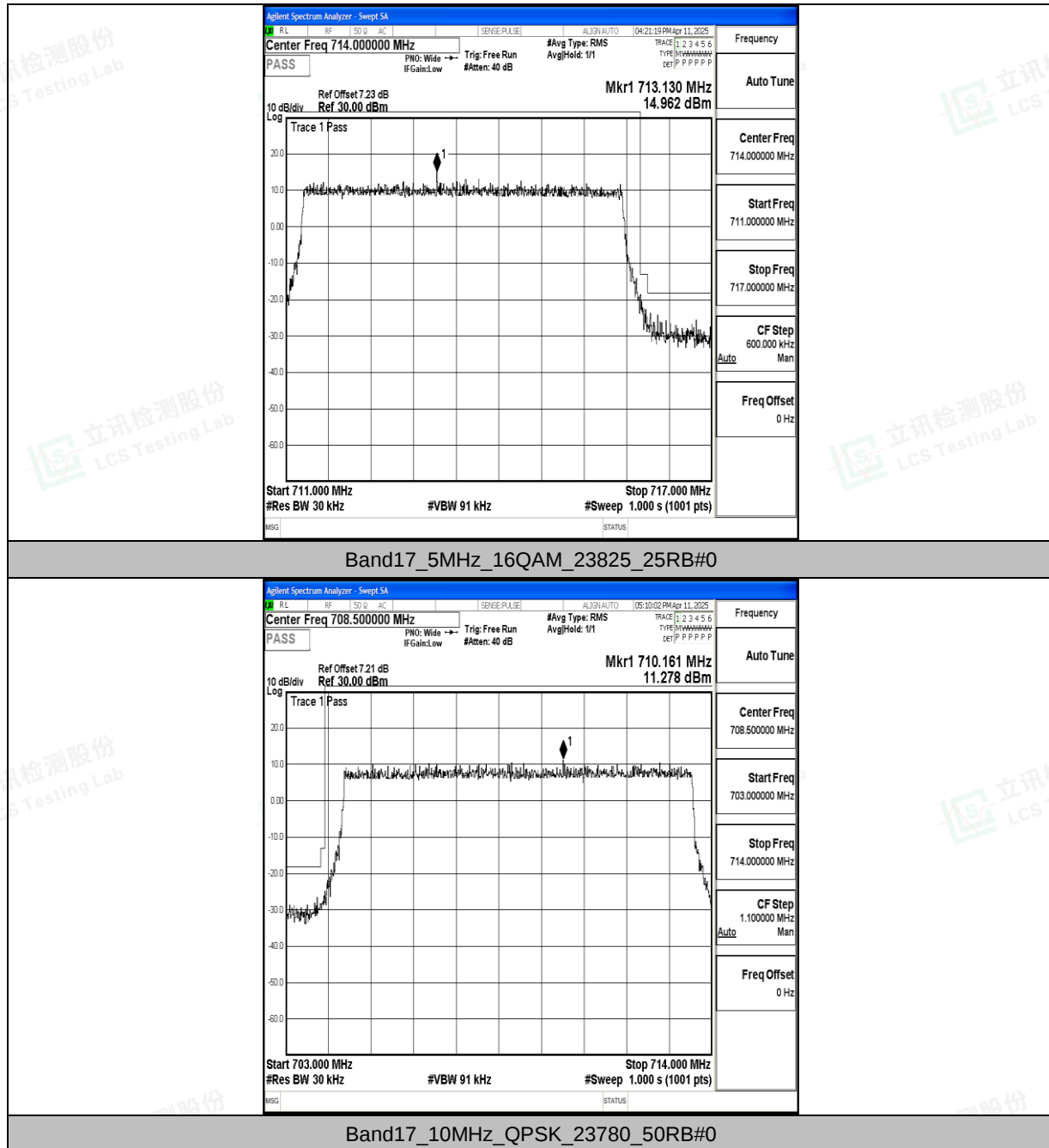


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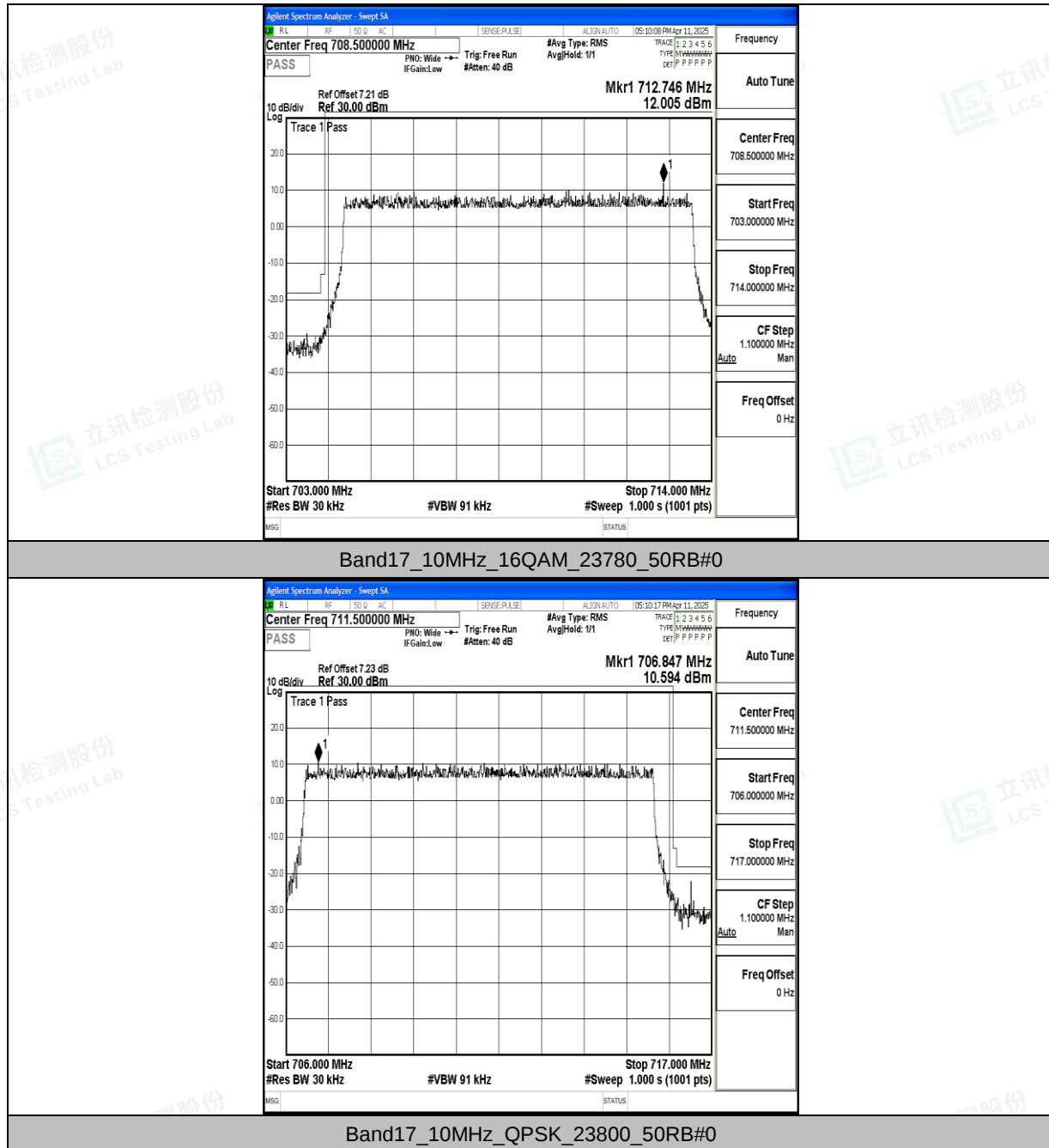


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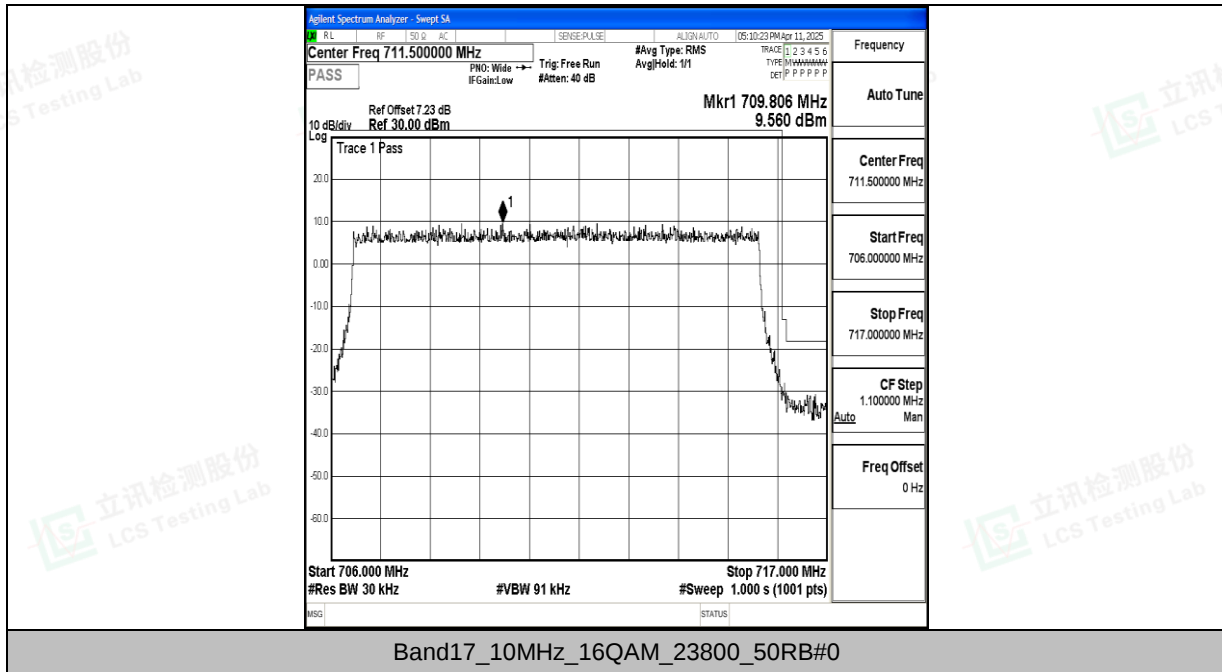


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## I.5 Conducted Spurious Emission

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-----------------|--------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 0.009~0.15      | -57.99       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 0.15~30         | -45.96       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 30~1000         | -51.98       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 1000~3000       | -30.71       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 3000~10000      | -35.24       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 0.009~0.15      | -59.35       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 0.15~30         | -46.05       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 30~1000         | -52.30       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 1000~3000       | -32.95       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 3000~10000      | -34.31       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 0.009~0.15      | -56.75       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 0.15~30         | -44.94       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 30~1000         | -51.58       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 1000~3000       | -30.51       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 3000~10000      | -35.34       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 0.009~0.15      | -56.13       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 0.15~30         | -45.88       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 30~1000         | -53.06       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 1000~3000       | -34.41       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 3000~10000      | -34.84       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 0.009~0.15      | -56.68       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 0.15~30         | -47.55       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 30~1000         | -51.93       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 1000~3000       | -27.44       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 3000~10000      | -35.14       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 0.009~0.15      | -58.55       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 0.15~30         | -44.25       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 30~1000         | -52.85       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 1000~3000       | -28.74       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 3000~10000      | -34.94       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#0            | 0.009~0.15      | -58.72       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#0            | 0.15~30         | -43.02       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#0            | 30~1000         | -52.16       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#0            | 1000~3000       | -30.06       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#0            | 3000~10000      | -35.39       | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 1RB#0            | 0.009~0.15      | -57.06       | PASS    |



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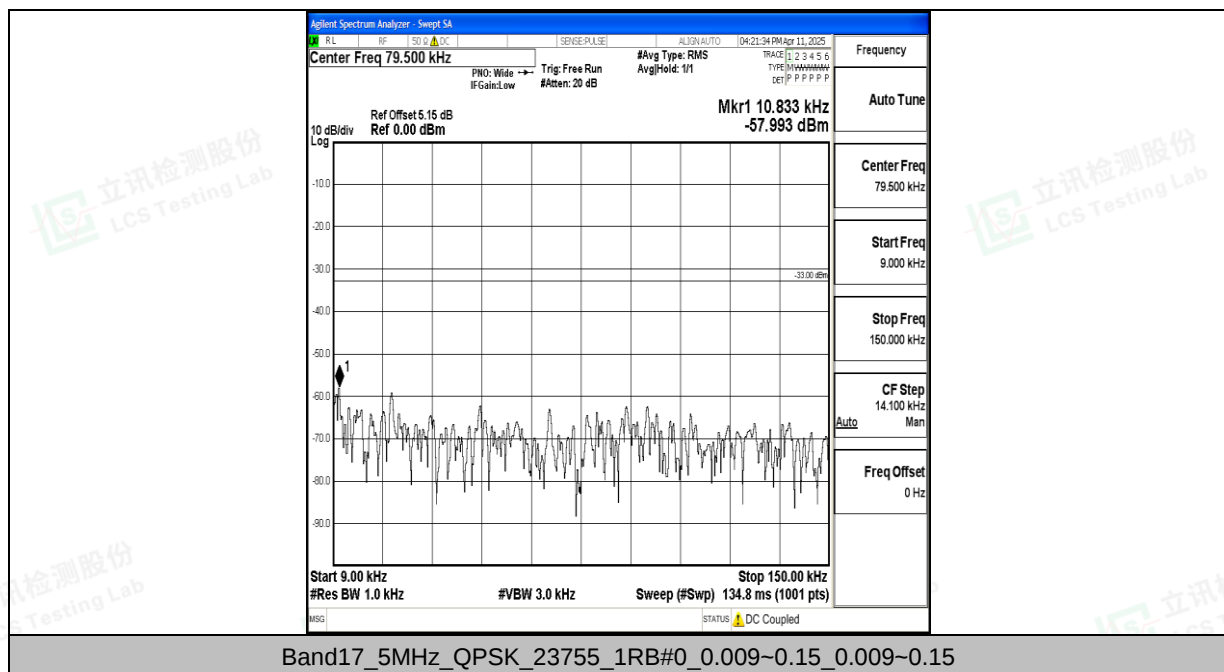
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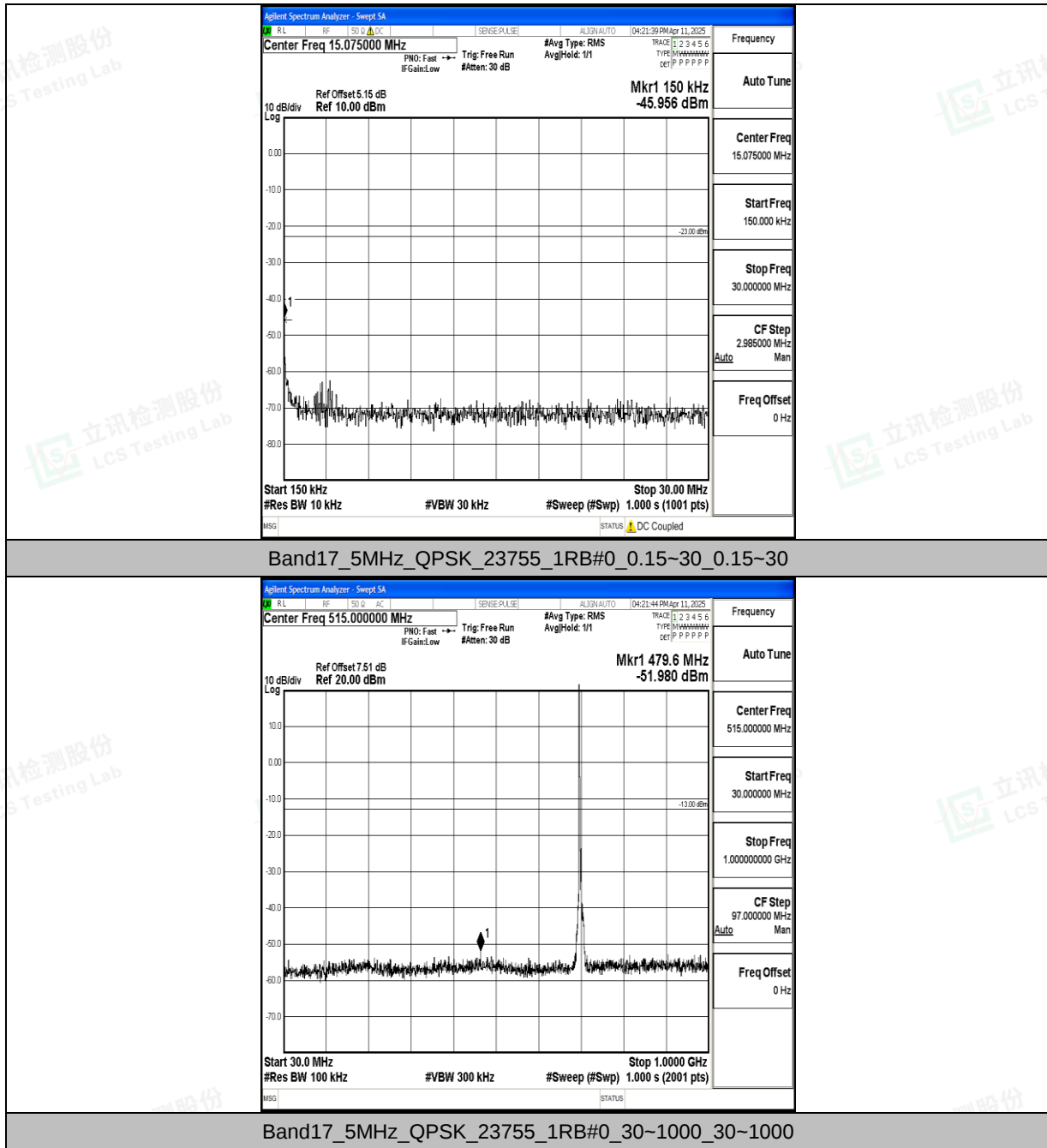
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|        |       |       |       |       |            |        |      |
|--------|-------|-------|-------|-------|------------|--------|------|
| Band17 | 10MHz | 16QAM | 23780 | 1RB#0 | 0.15~30    | -47.64 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#0 | 30~1000    | -52.35 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#0 | 1000~3000  | -33.13 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#0 | 3000~10000 | -34.76 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#0 | 0.009~0.15 | -56.99 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#0 | 0.15~30    | -47.07 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#0 | 30~1000    | -52.74 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#0 | 1000~3000  | -30.54 | PASS |
| Band17 | 10MHz | QPSK  | 23790 | 1RB#0 | 3000~10000 | -35.22 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#0 | 0.009~0.15 | -59.36 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#0 | 0.15~30    | -46.70 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#0 | 30~1000    | -52.85 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#0 | 1000~3000  | -31.46 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#0 | 3000~10000 | -35.76 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#0 | 0.009~0.15 | -58.68 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#0 | 0.15~30    | -43.84 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#0 | 30~1000    | -52.41 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#0 | 1000~3000  | -31.72 | PASS |
| Band17 | 10MHz | QPSK  | 23800 | 1RB#0 | 3000~10000 | -35.61 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#0 | 0.009~0.15 | -56.98 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#0 | 0.15~30    | -46.54 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#0 | 30~1000    | -52.47 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#0 | 1000~3000  | -30.75 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#0 | 3000~10000 | -35.52 | PASS |

## Test Graphs



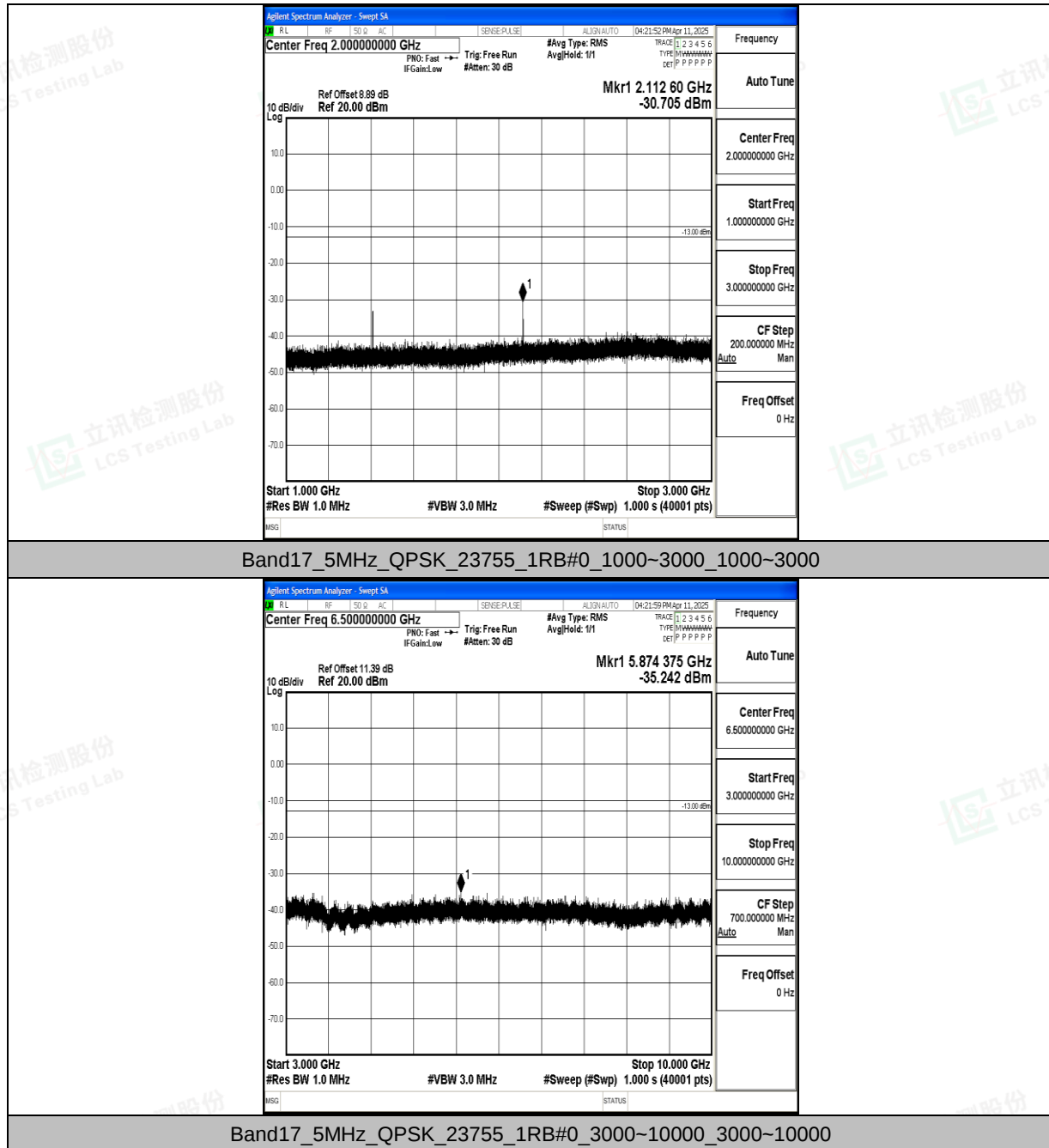


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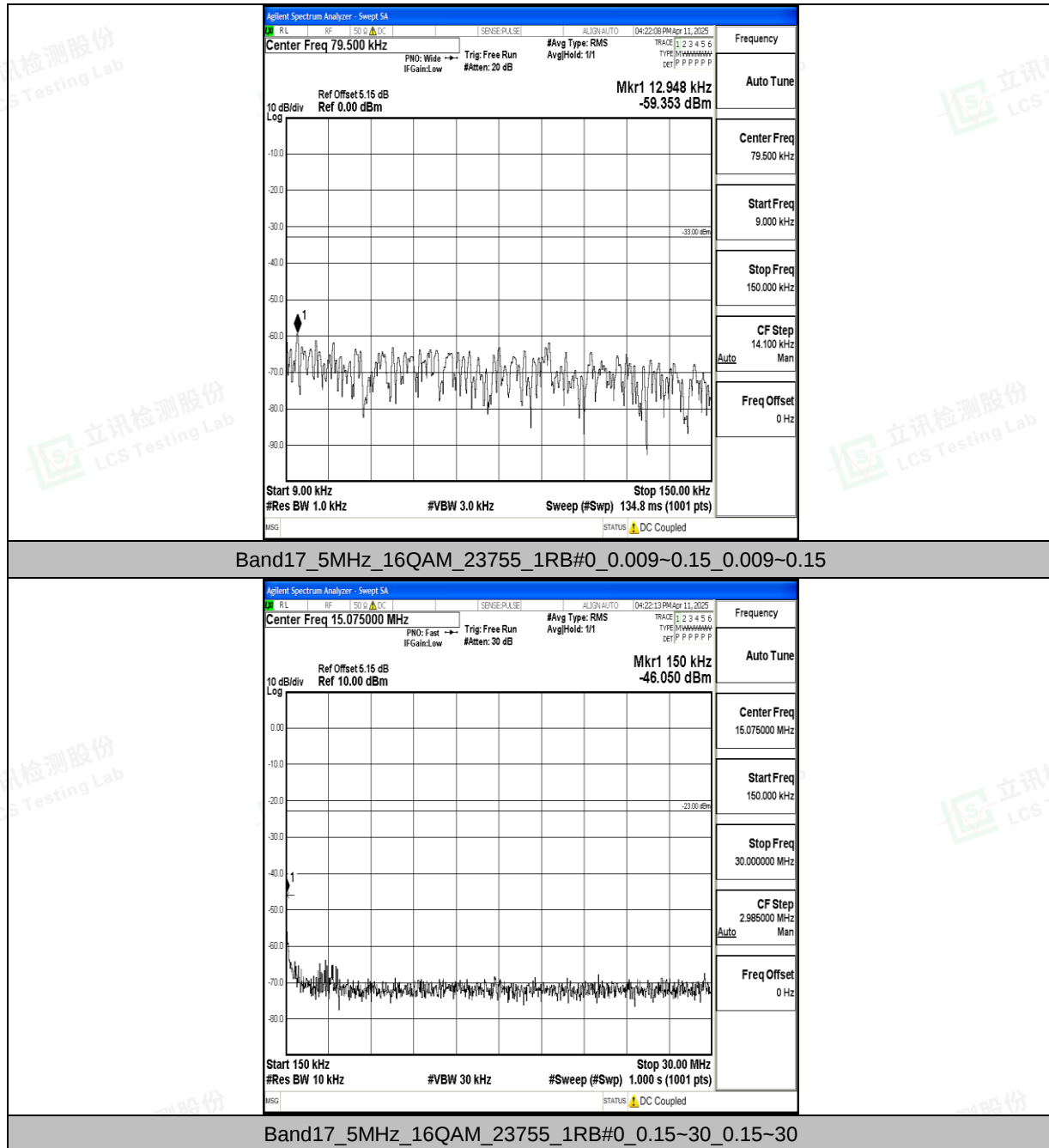


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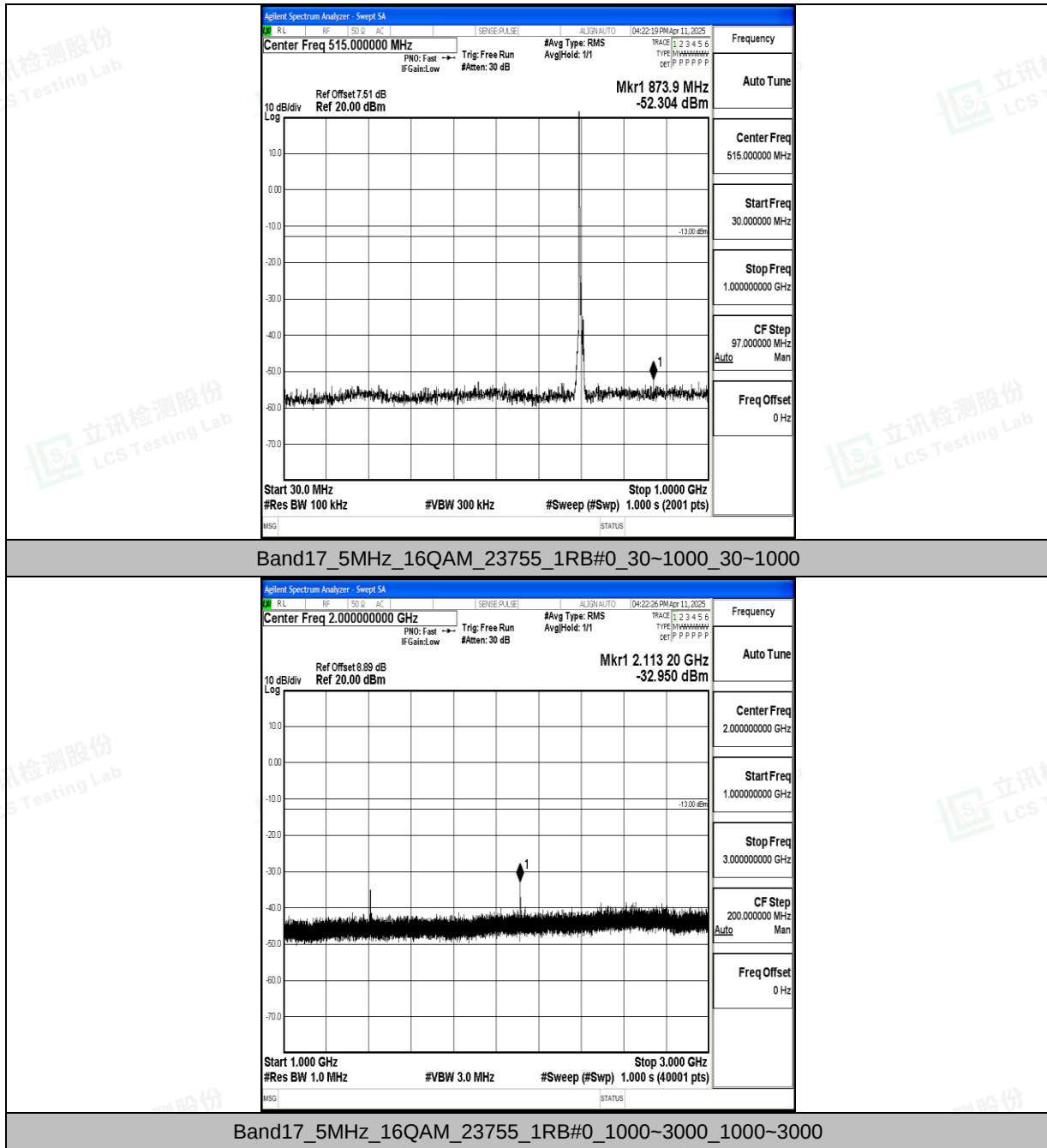


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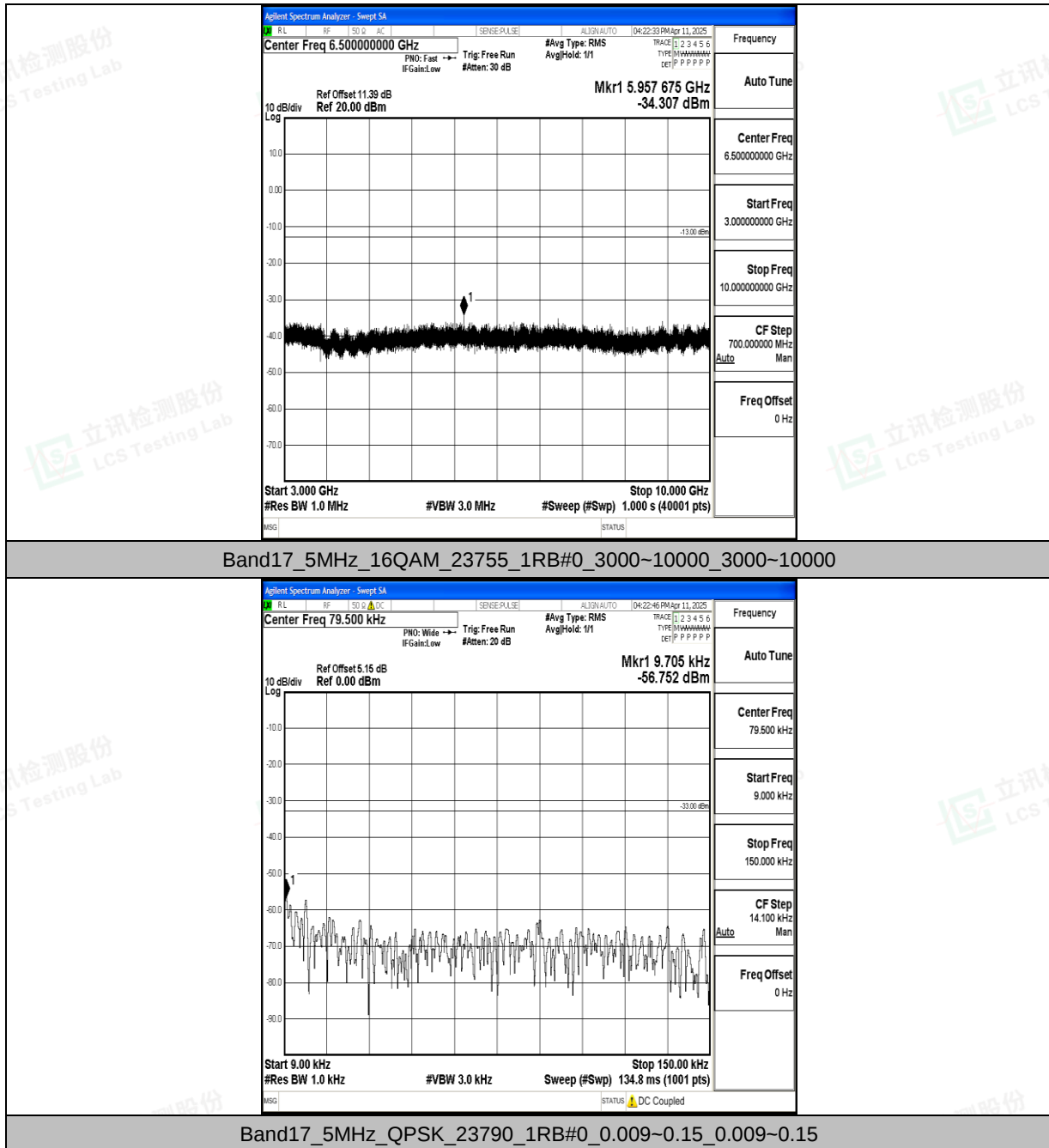


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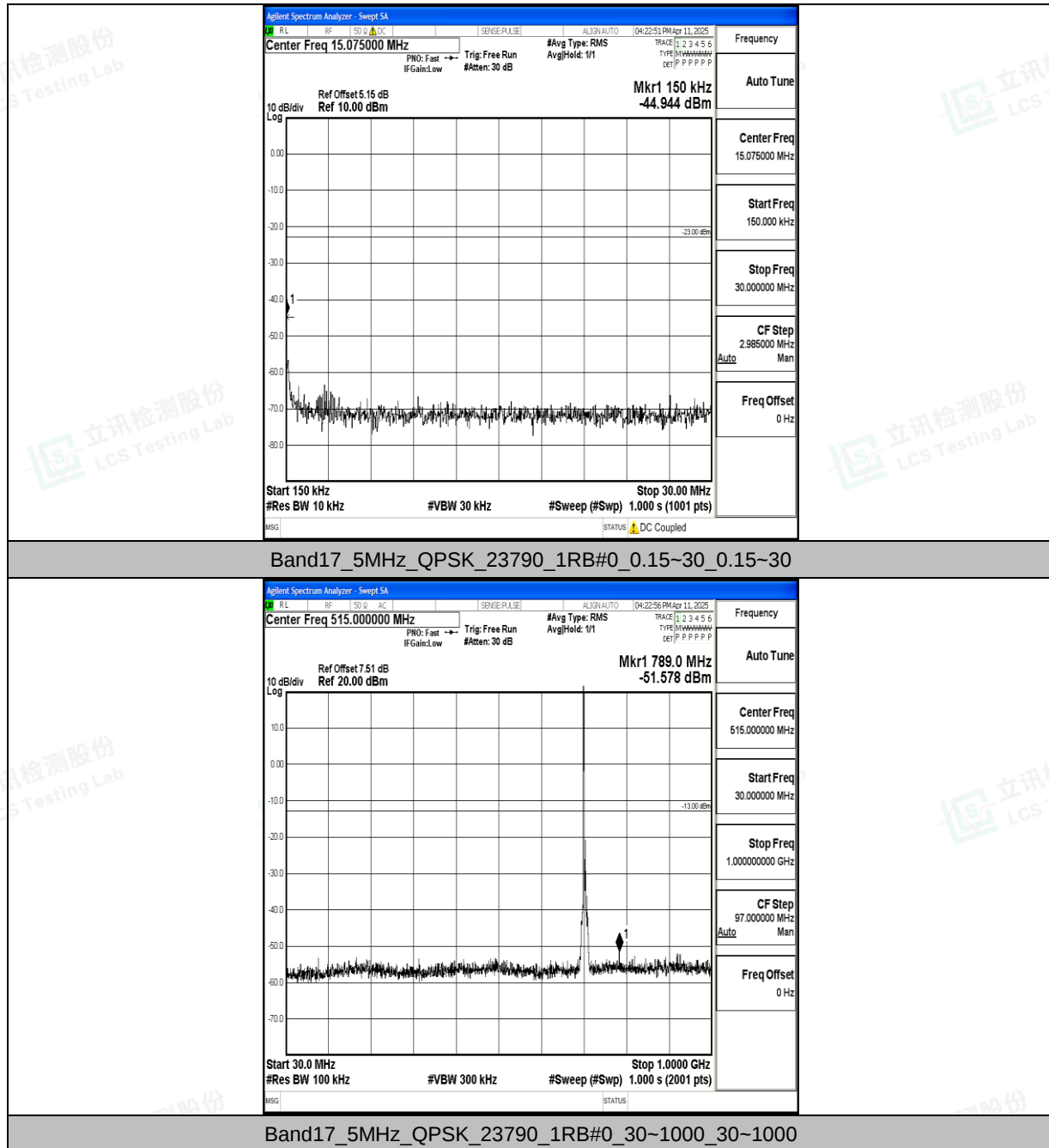


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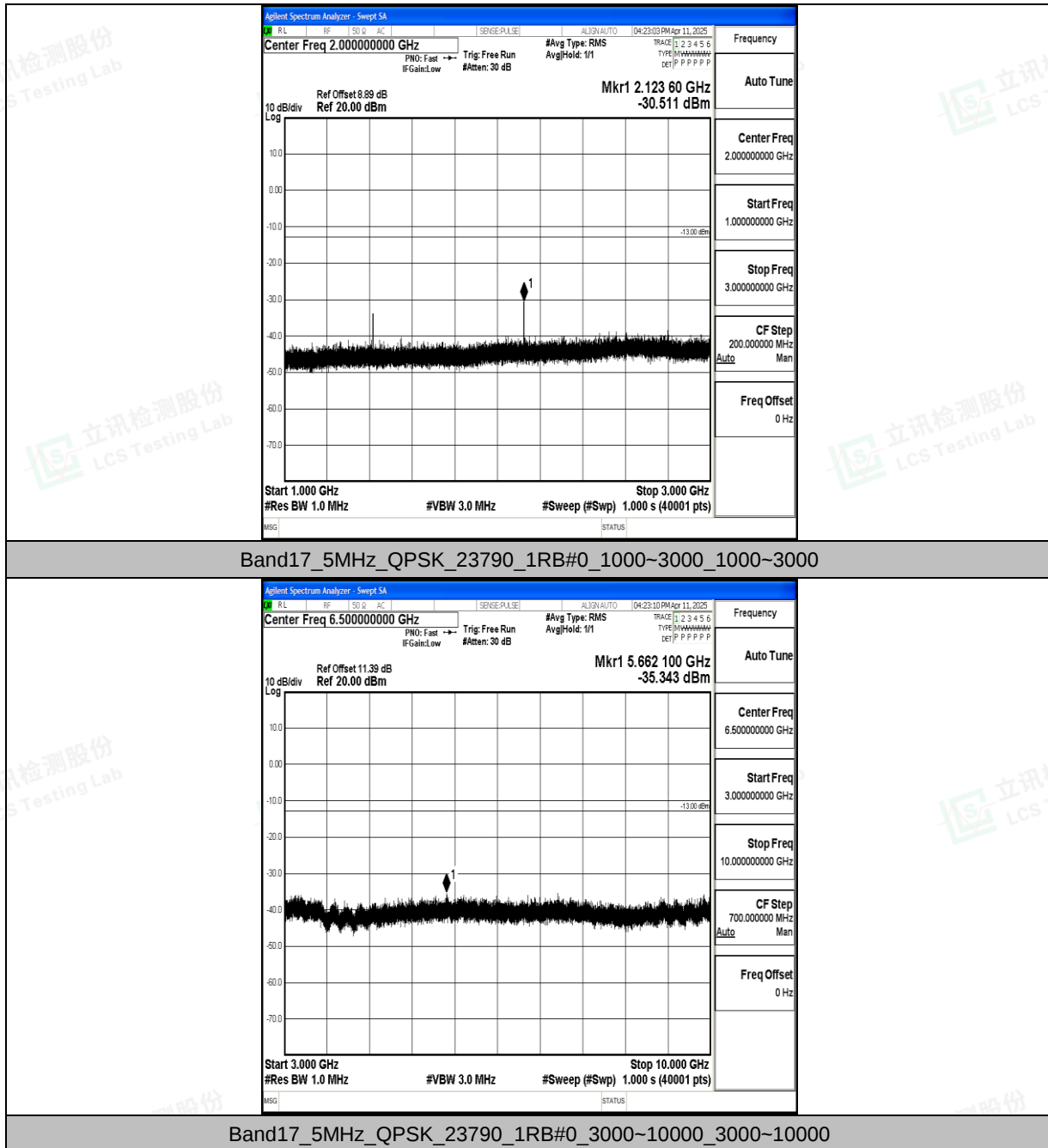


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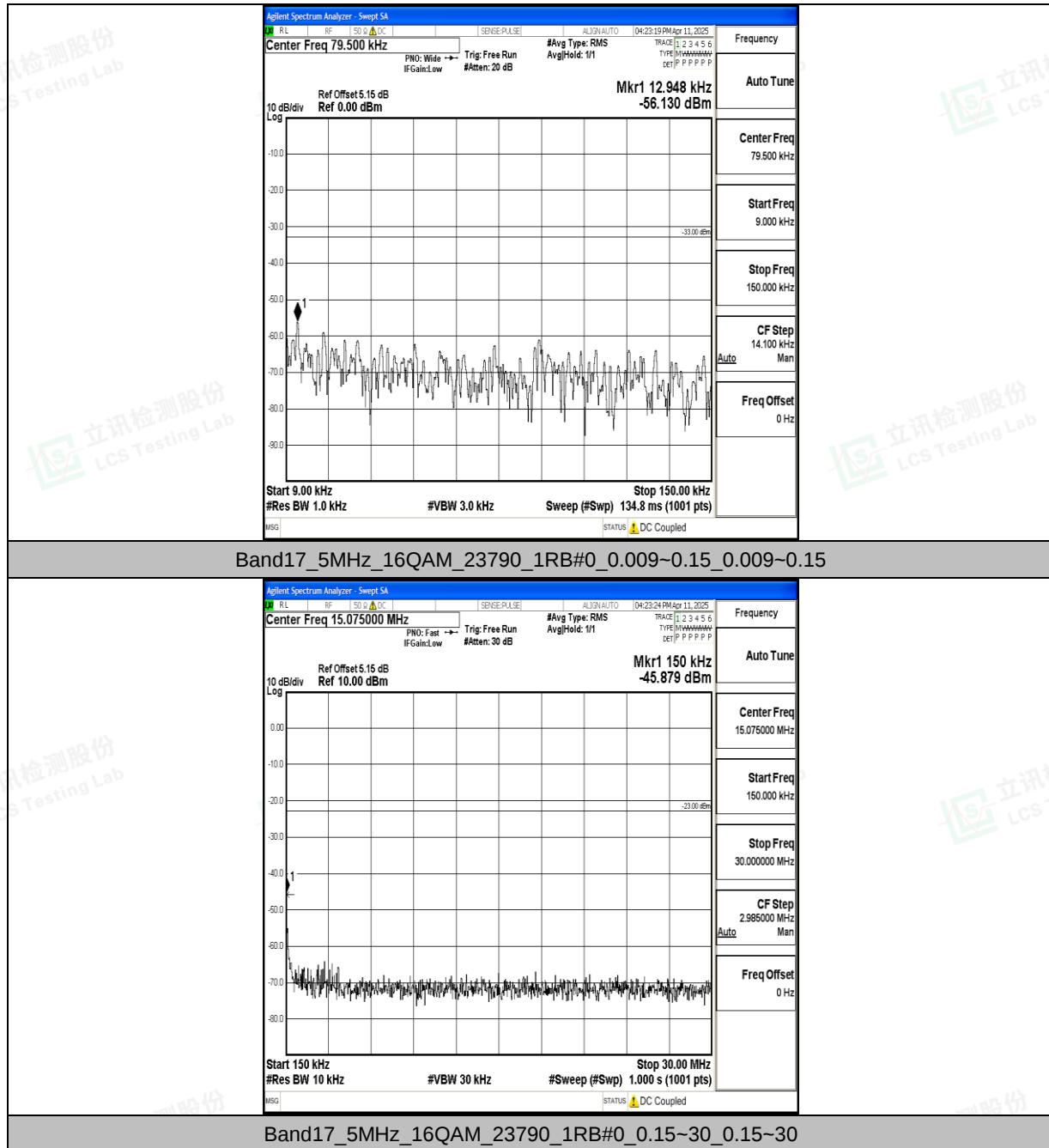


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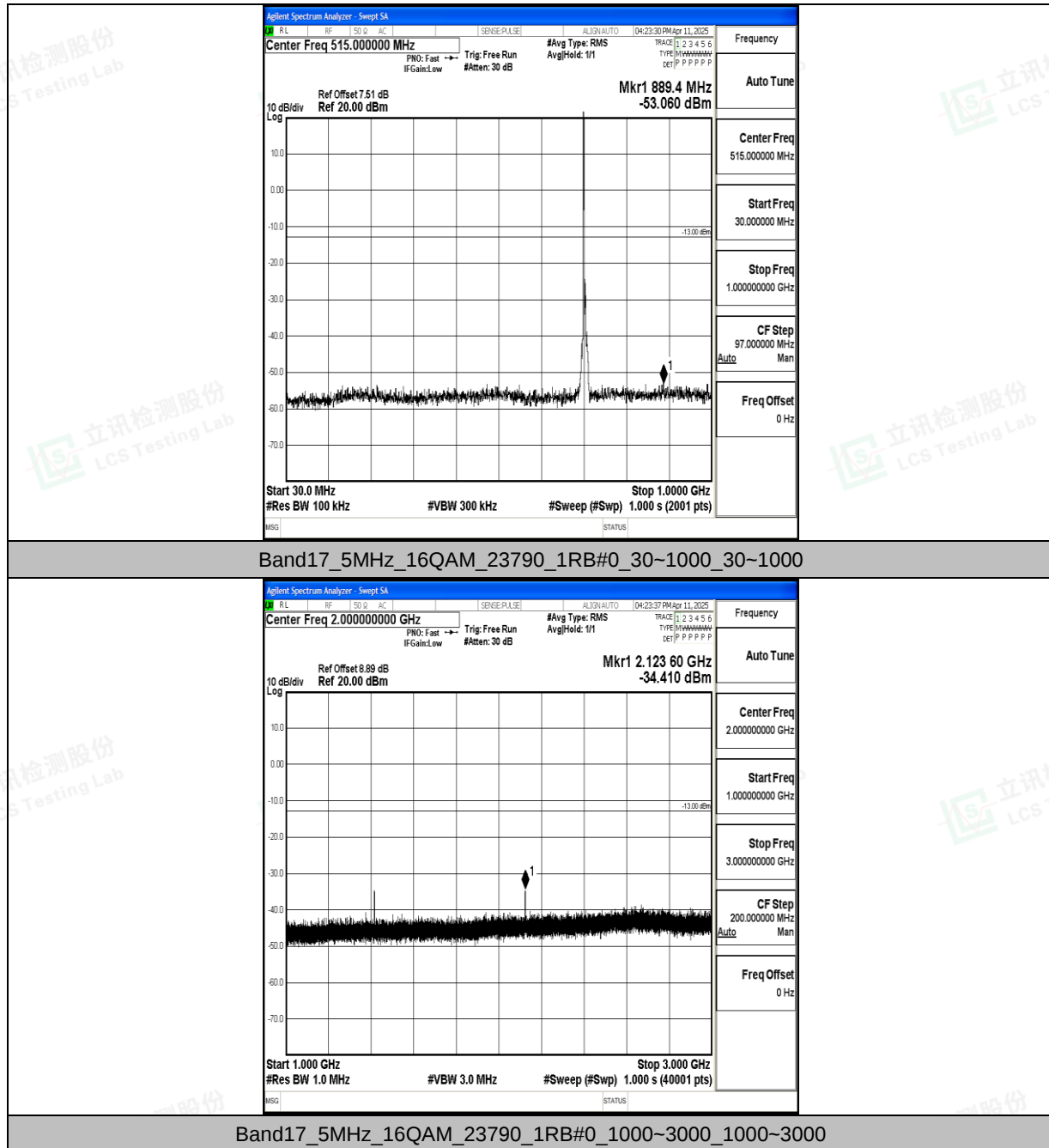


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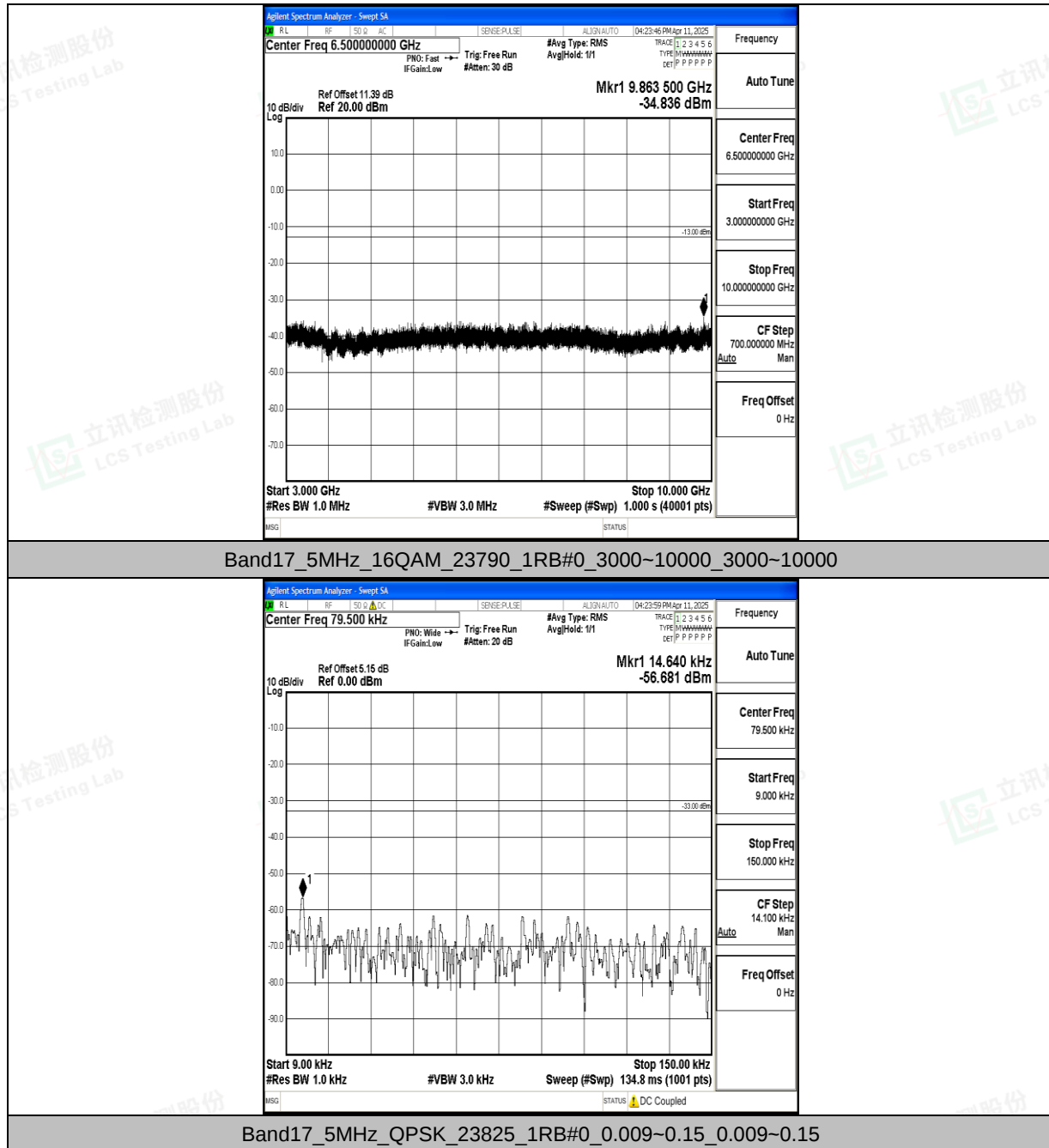


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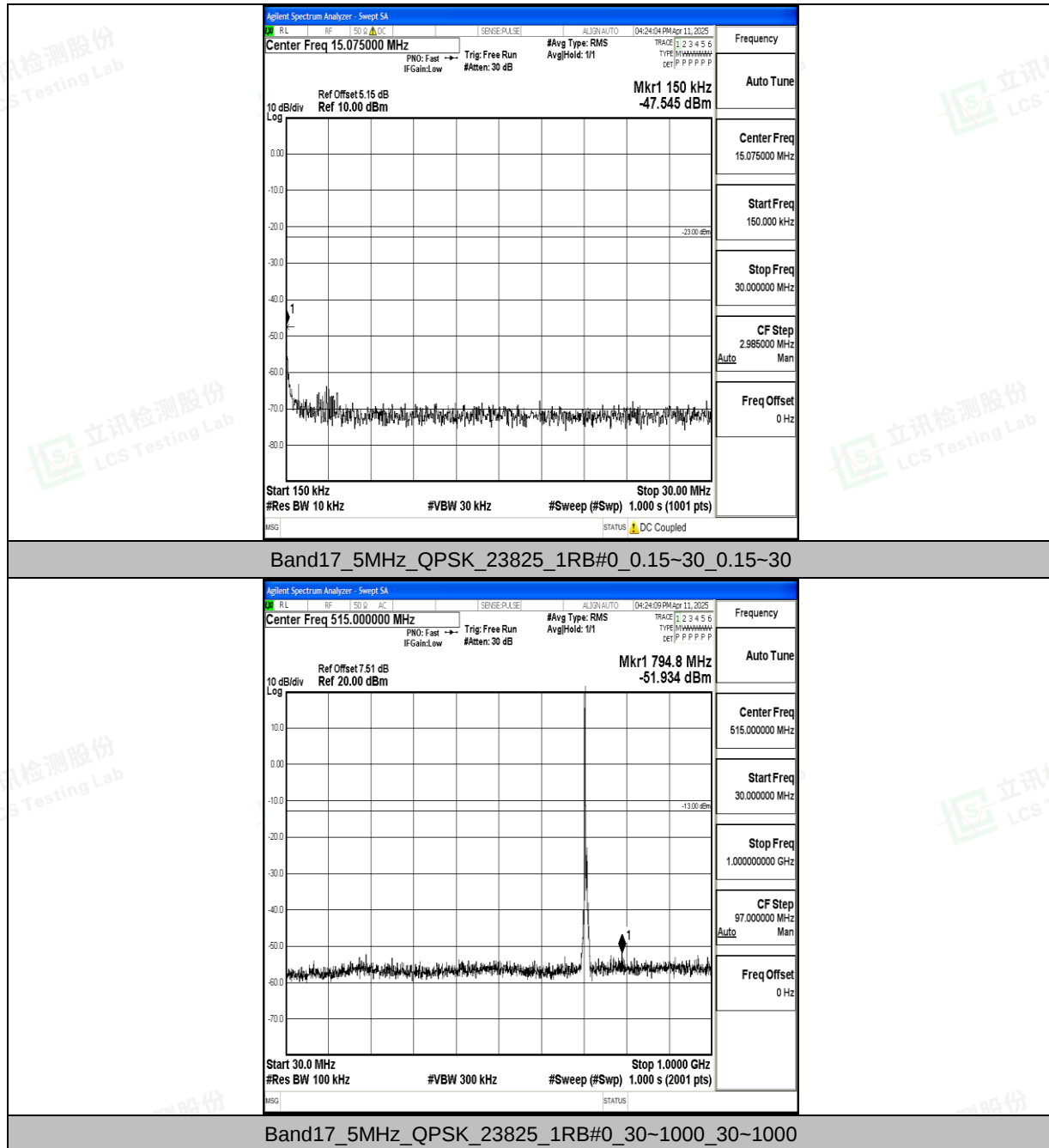


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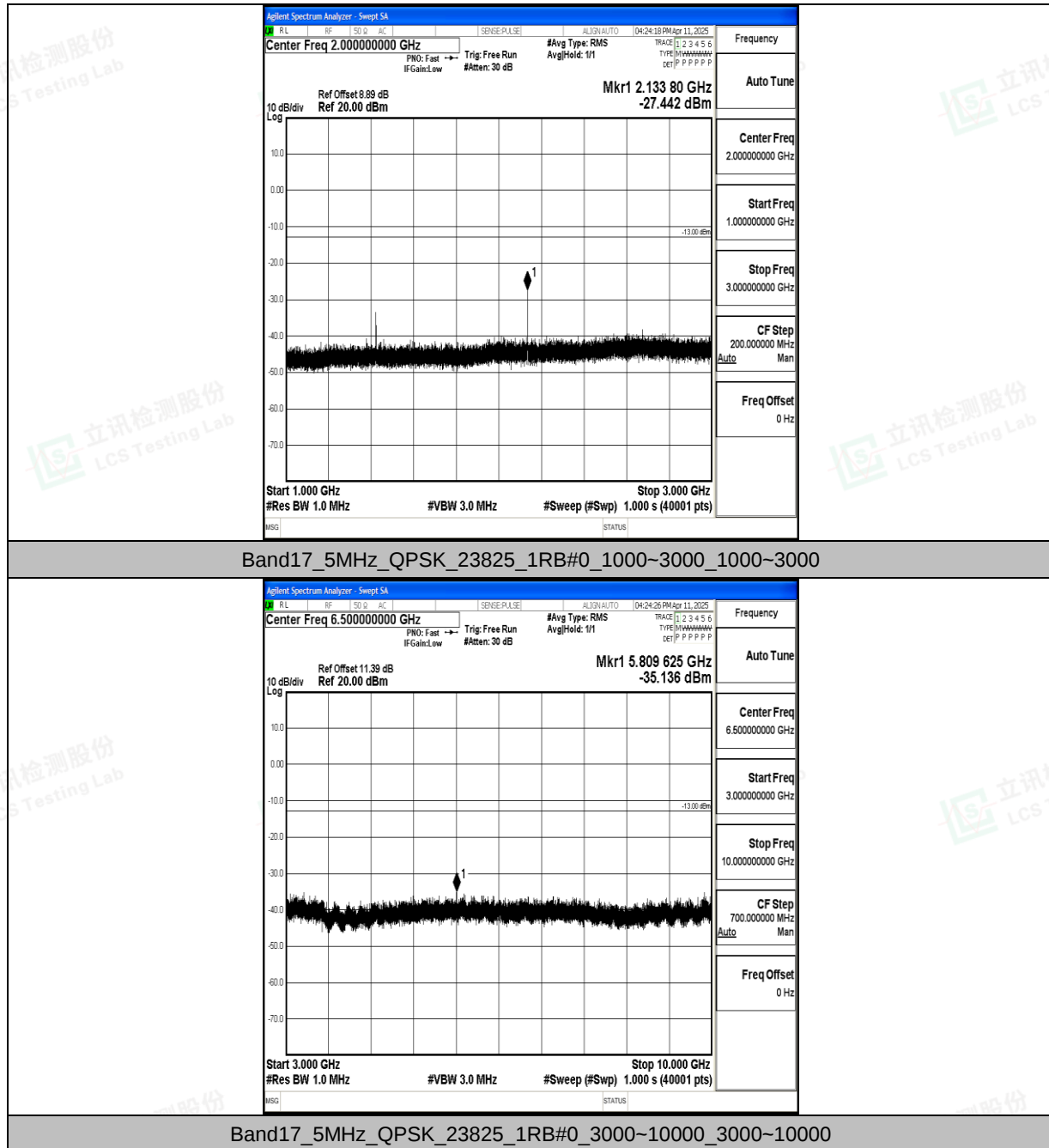


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