



## Appendix D: Test Data for LTE Band 5

Product Name: GNSS Tracker

Test Model: GV75CG

### Environmental Conditions

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





## D.1 Conducted Output Power Data for LTE

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 22.87       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 22.73       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#2            | 22.70       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#2            | 22.69       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#5            | 22.87       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#5            | 22.75       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#0            | 22.88       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#0            | 22.35       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#1            | 22.79       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#1            | 22.36       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#3            | 22.86       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#3            | 22.03       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 22.08       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 21.51       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 22.45       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 22.55       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#2            | 22.46       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#2            | 22.55       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#5            | 22.46       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#5            | 23.23       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#0            | 22.24       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#0            | 21.70       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#1            | 22.08       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#1            | 21.98       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#3            | 22.68       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#3            | 21.69       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 21.69       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 20.54       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 21.38       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 22.33       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#2            | 22.09       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#2            | 21.44       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#5            | 21.21       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#5            | 21.83       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#0            | 22.53       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 3RB#0            | 22.14       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#1            | 22.48       | PASS    |



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|       |        |       |       |        |       |      |
|-------|--------|-------|-------|--------|-------|------|
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#1  | 21.91 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 3RB#3  | 22.09 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#3  | 21.74 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0  | 21.62 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | 21.03 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#0  | 21.98 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#0  | 21.51 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#8  | 22.11 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#8  | 21.48 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#14 | 21.95 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#14 | 21.60 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#0  | 21.03 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#0  | 20.61 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#4  | 20.92 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#4  | 20.60 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#7  | 20.94 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#7  | 20.56 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | 20.85 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | 20.18 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#0  | 21.50 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#0  | 20.50 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#8  | 21.61 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#8  | 20.56 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#14 | 21.51 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#14 | 20.58 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#0  | 20.52 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 8RB#0  | 20.23 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#4  | 20.47 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 8RB#4  | 20.20 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#7  | 20.57 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 8RB#7  | 20.18 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | 20.44 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | 19.74 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#0  | 21.54 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 1RB#0  | 22.12 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#8  | 21.44 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 1RB#8  | 21.58 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#14 | 20.83 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 1RB#14 | 21.04 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 8RB#0  | 20.56 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 8RB#0  | 20.11 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 8RB#4  | 20.55 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 8RB#4  | 20.07 | PASS |



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|-------|------|-------|-------|---------|-------|------|
| Band5 | 3MHz | QPSK  | 20635 | 8RB#7   | 20.38 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#7   | 19.91 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0  | 20.32 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0  | 20.07 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0   | 23.18 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0   | 23.04 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#12  | 22.60 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12  | 22.55 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#24  | 22.57 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24  | 22.55 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#0  | 22.53 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#0  | 22.52 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#6  | 23.17 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#6  | 23.30 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#13 | 23.33 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#13 | 23.31 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0  | 23.29 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0  | 23.27 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0   | 22.64 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0   | 21.55 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#12  | 22.60 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12  | 21.68 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#24  | 22.79 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24  | 21.70 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#0  | 21.71 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#0  | 21.27 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#6  | 21.56 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#6  | 21.12 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#13 | 21.63 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#13 | 21.25 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0  | 21.58 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0  | 21.27 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#0   | 22.48 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0   | 22.63 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#12  | 22.66 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#12  | 22.27 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#24  | 22.78 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#24  | 22.19 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 12RB#0  | 21.69 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#0  | 21.34 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 12RB#6  | 21.84 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#6  | 21.43 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 12RB#13 | 21.80 | PASS |



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|-------|-------|-------|-------|---------|-------|------|
| Band5 | 5MHz  | 16QAM | 20625 | 12RB#13 | 21.41 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0  | 21.89 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0  | 21.42 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0   | 22.78 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0   | 22.58 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#24  | 22.77 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24  | 22.48 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#49  | 22.75 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49  | 22.57 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#0  | 21.95 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#0  | 21.31 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#12 | 21.76 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#12 | 21.54 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#25 | 21.68 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#25 | 21.35 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0  | 21.75 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0  | 21.33 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0   | 22.84 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0   | 22.46 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#24  | 22.91 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24  | 22.55 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#49  | 22.92 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49  | 22.57 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#0  | 21.92 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#0  | 21.54 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#12 | 21.99 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#12 | 21.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#25 | 21.81 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#25 | 21.52 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0  | 21.92 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0  | 21.37 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0   | 22.78 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0   | 22.99 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#24  | 22.82 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24  | 22.56 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#49  | 22.73 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49  | 22.30 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#0  | 22.02 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#0  | 21.55 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#12 | 22.01 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#12 | 21.51 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#25 | 21.94 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#25 | 21.46 | PASS |



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|-------|-------|-------|-------|--------|-------|------|
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | 21.83 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 21.53 | PASS |







## D.2 Peak-to-Average Ratio(CCDF) for LTE

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 4.75       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 5.01       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 5.49       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 6.08       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 4.59       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 5.29       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 5.34       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 5.89       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 3.94       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 3.69       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | 4.84       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 1RB#0            | 4.99       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | 5.51       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | 6.21       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 1RB#0            | 4.71       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 1RB#0            | 5.14       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 15RB#0           | 5.33       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 15RB#0           | 5.96       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 1RB#0            | 4.03       | 13        | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 4.63       | 13        | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 5.18       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 1RB#0            | 4.18       | 13        | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | 4.87       | 13        | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | 5.44       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 1RB#0            | 5.23       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 1RB#0            | 5.76       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | 5.69       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | 6.29       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 1RB#0            | 4.95       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 1RB#0            | 5.27       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | 5.53       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | 6.14       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 1RB#0            | 4.32       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 1RB#0            | 4.73       | 13        | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | 5.40       | 13        | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | 5.93       | 13        | PASS    |



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|-------|-------|-------|-------|--------|------|----|------|
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0  | 5.12 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0  | 5.66 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | 5.63 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 6.29 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0  | 4.92 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0  | 5.68 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | 5.54 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 6.21 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0  | 4.82 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0  | 5.01 | 13 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | 5.34 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 5.99 | 13 | PASS |



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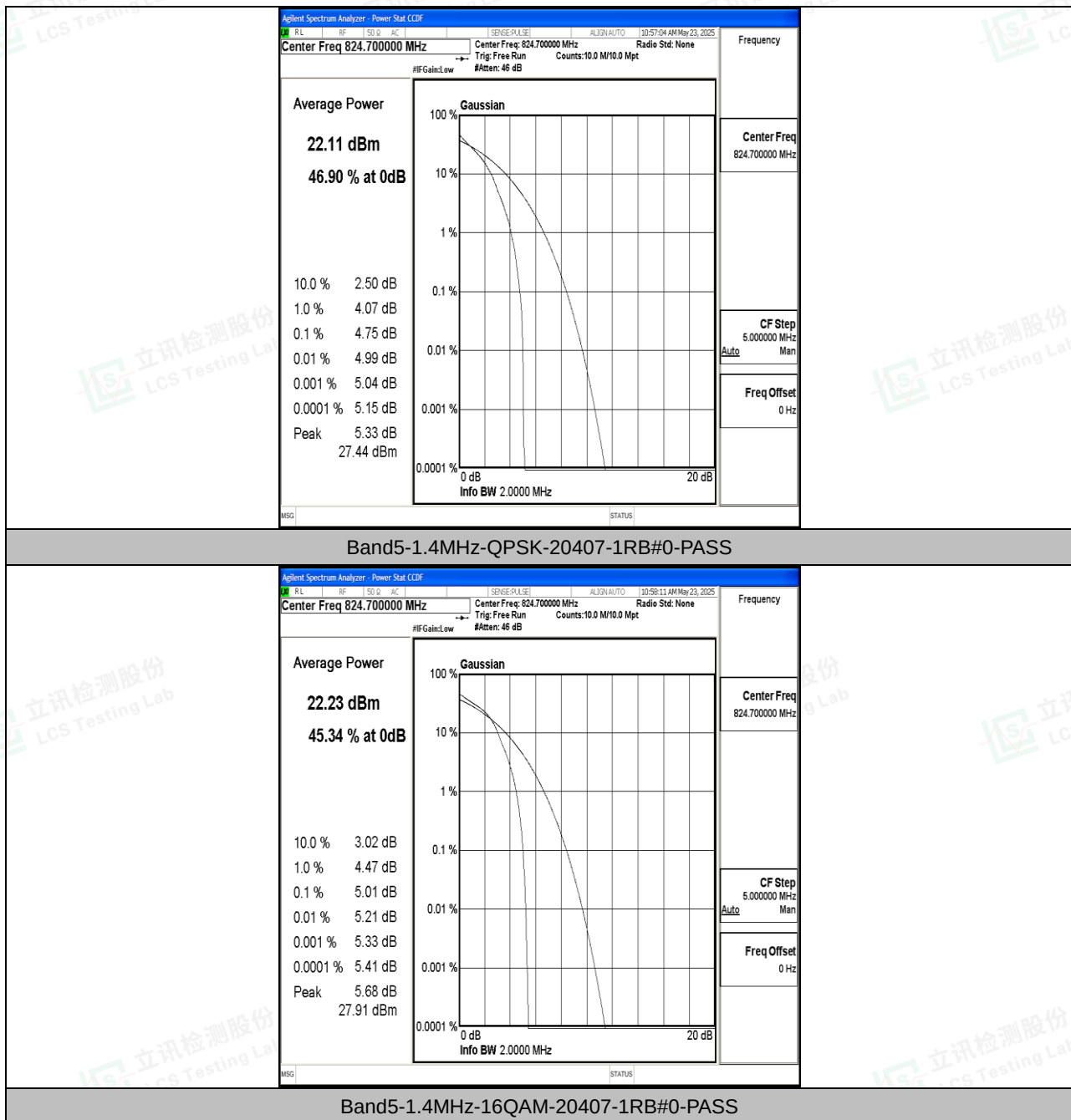
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## Test Graphs

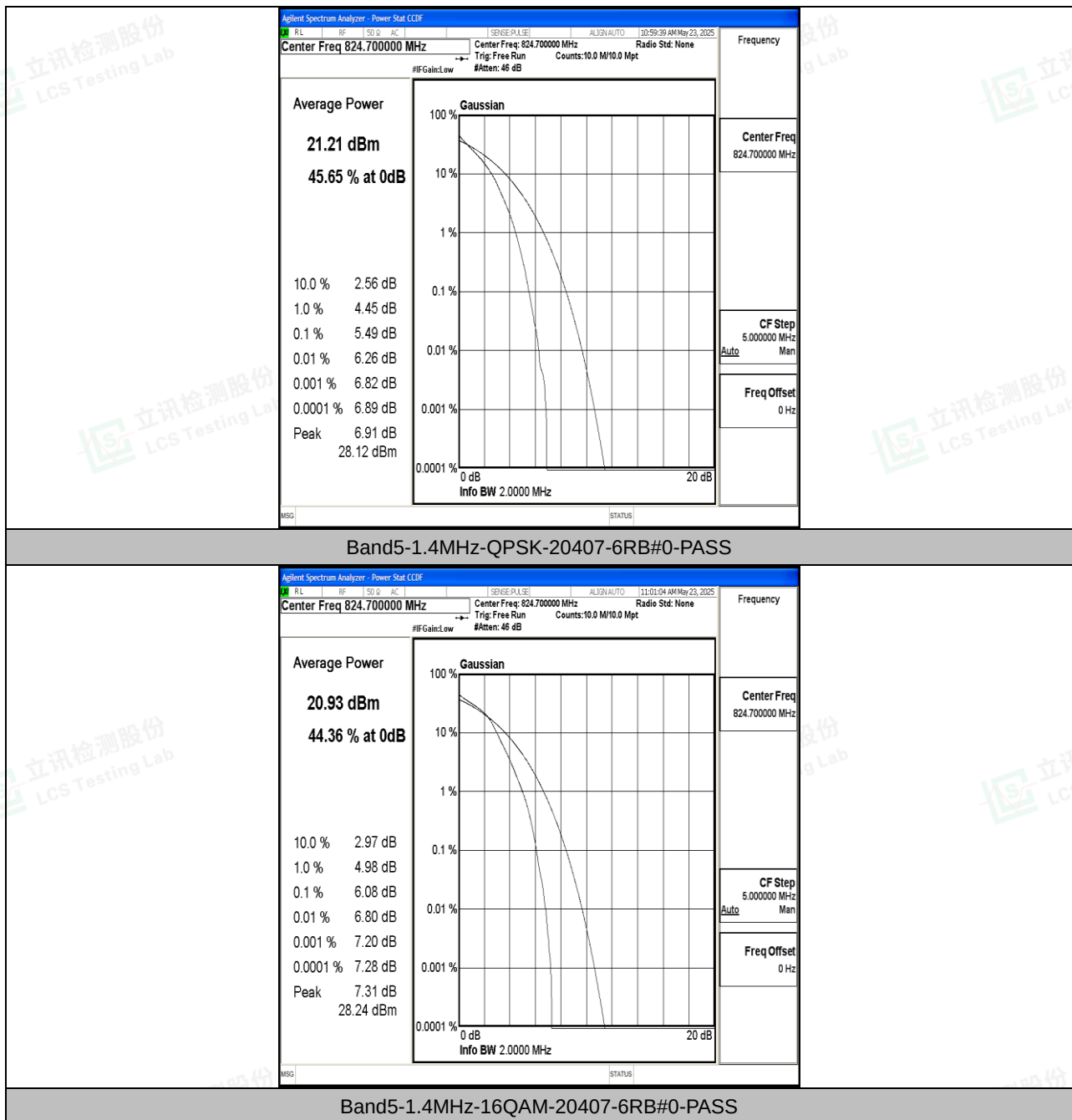


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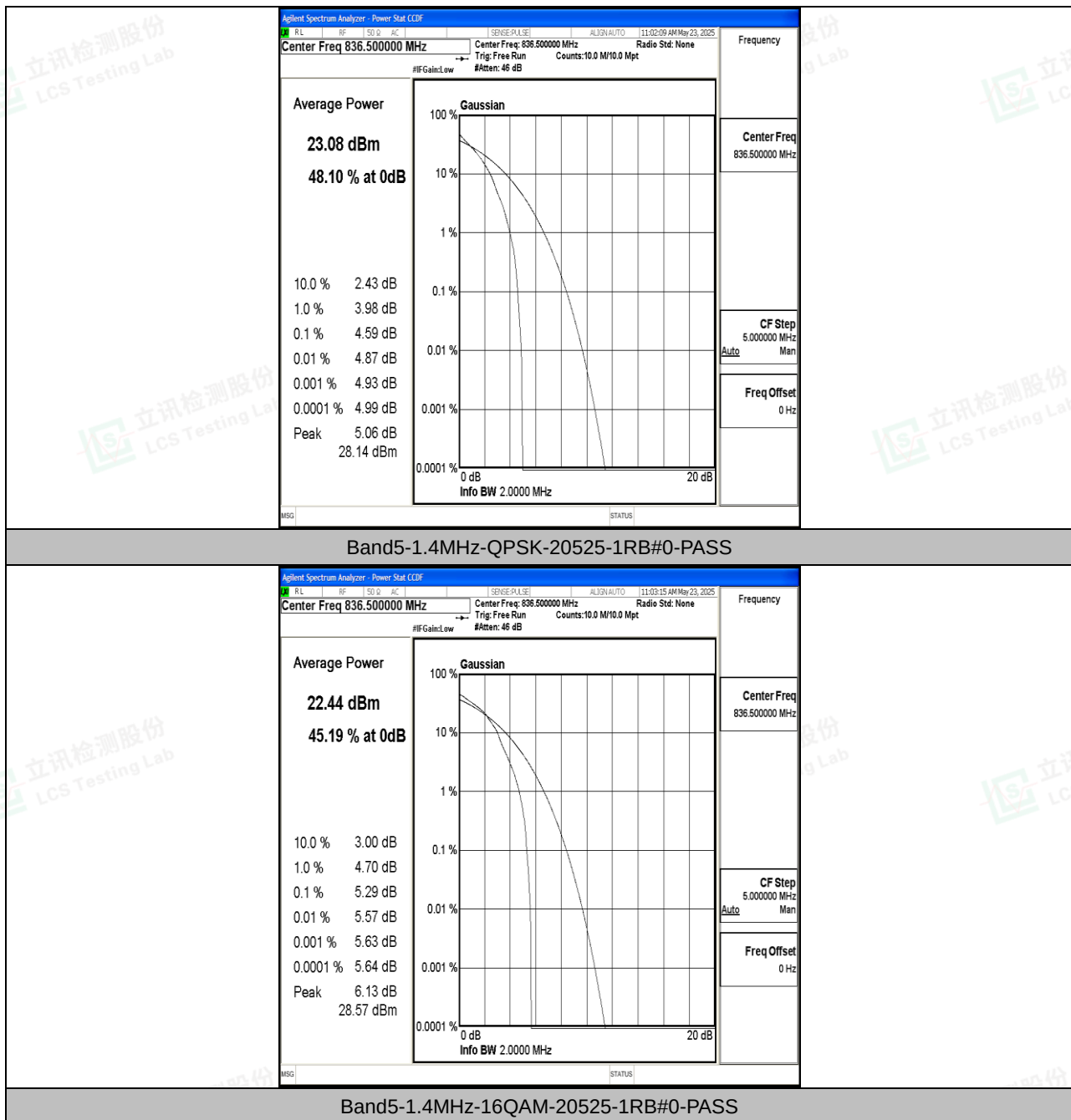


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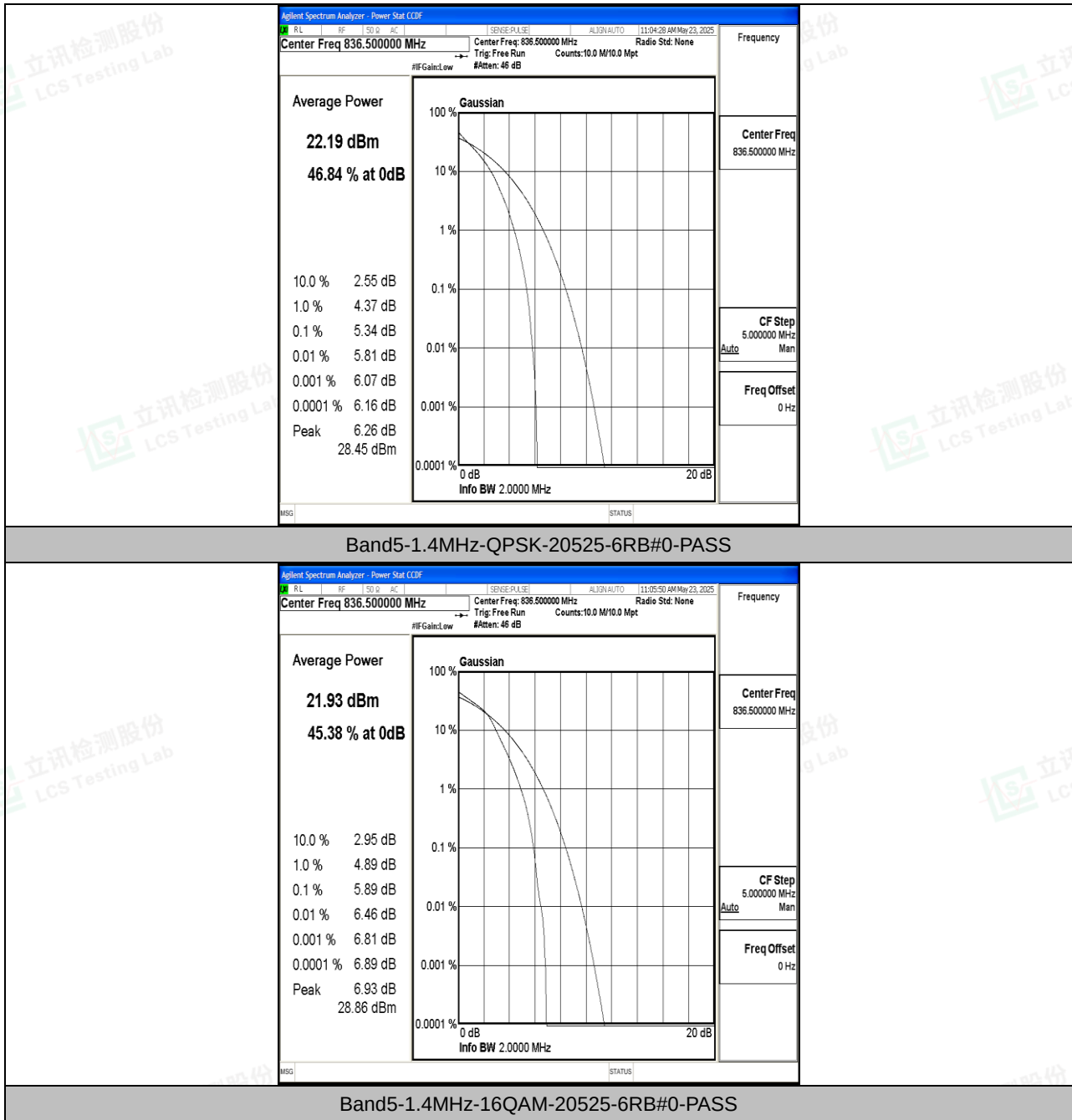


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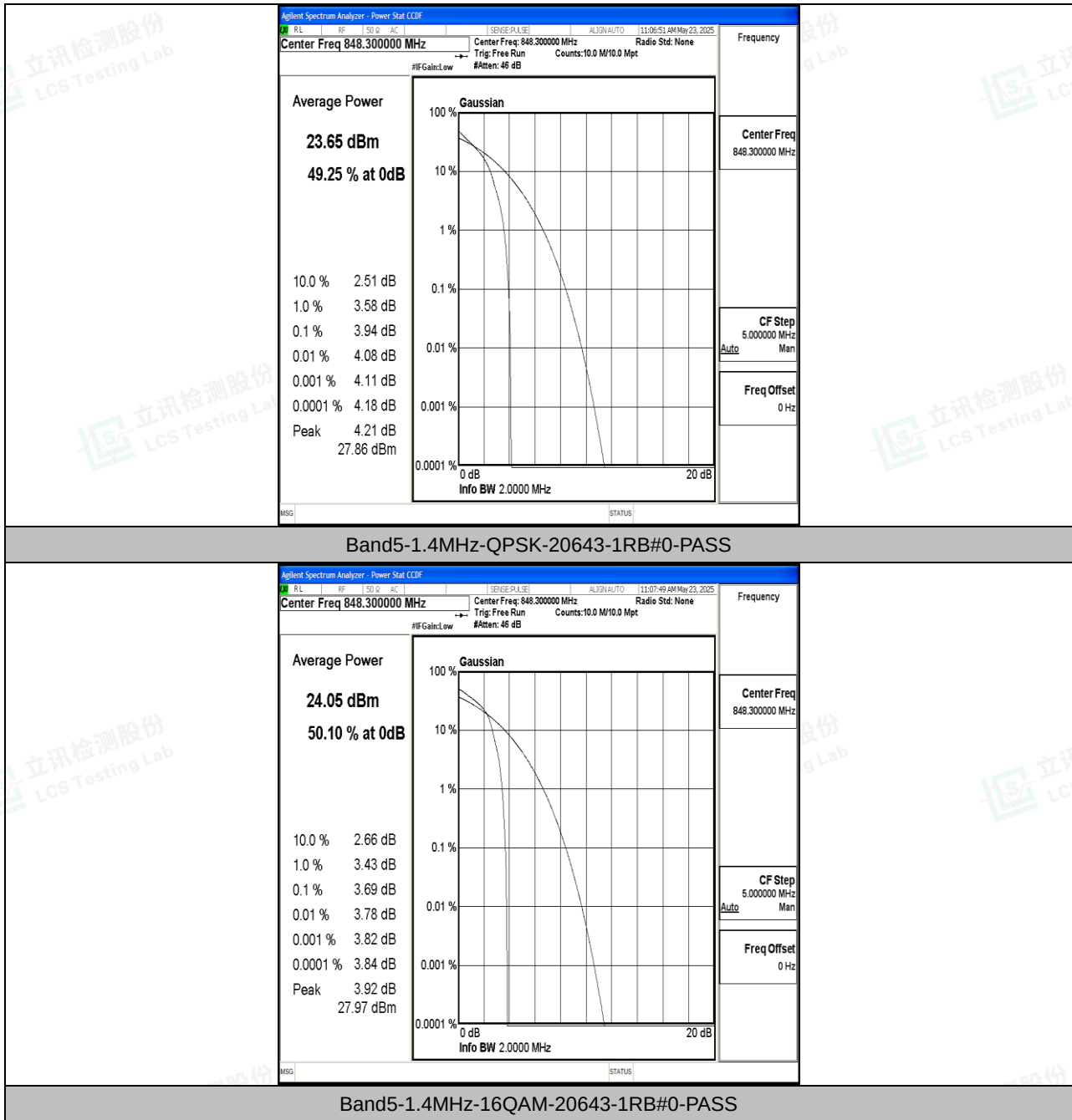


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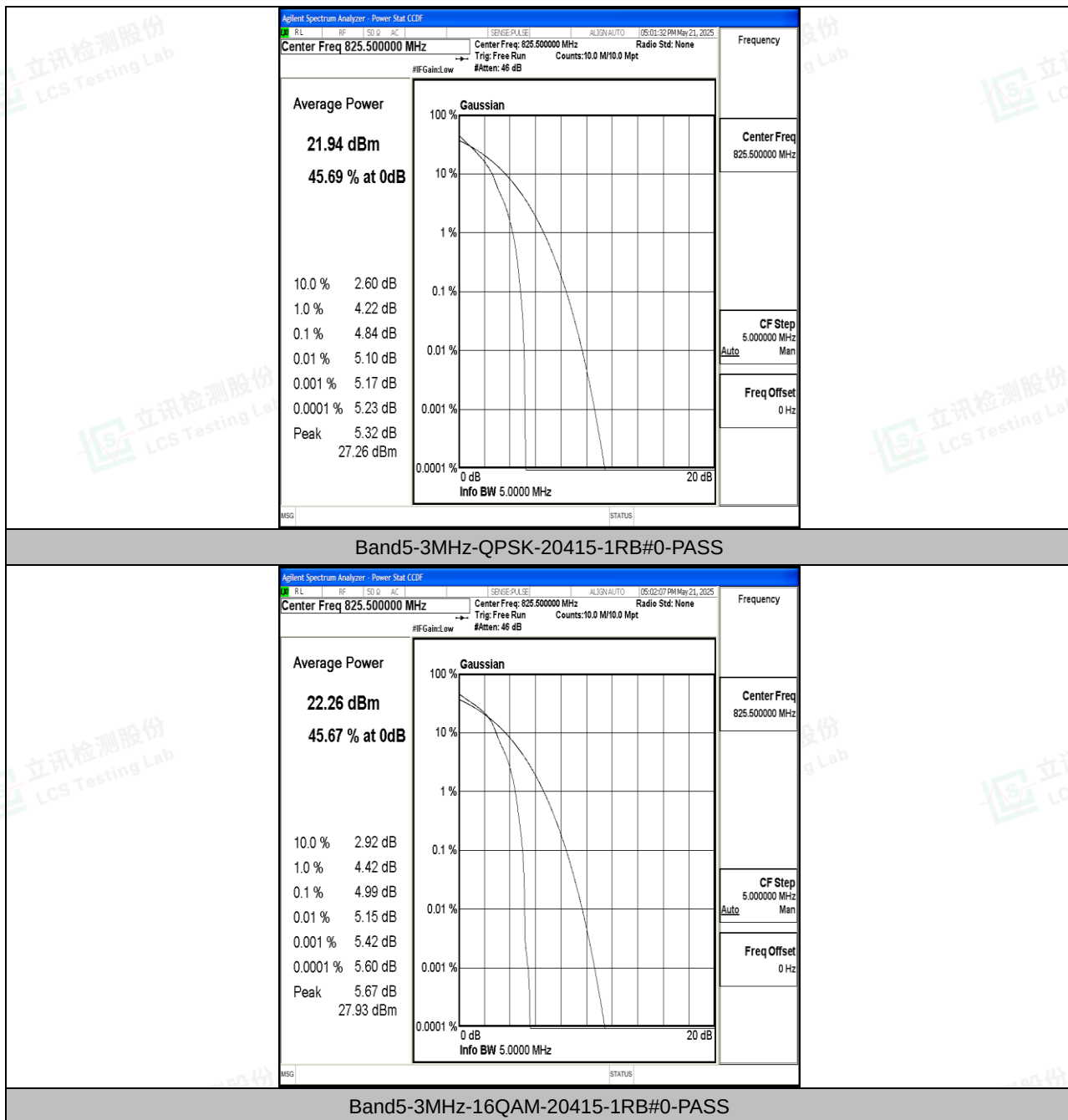


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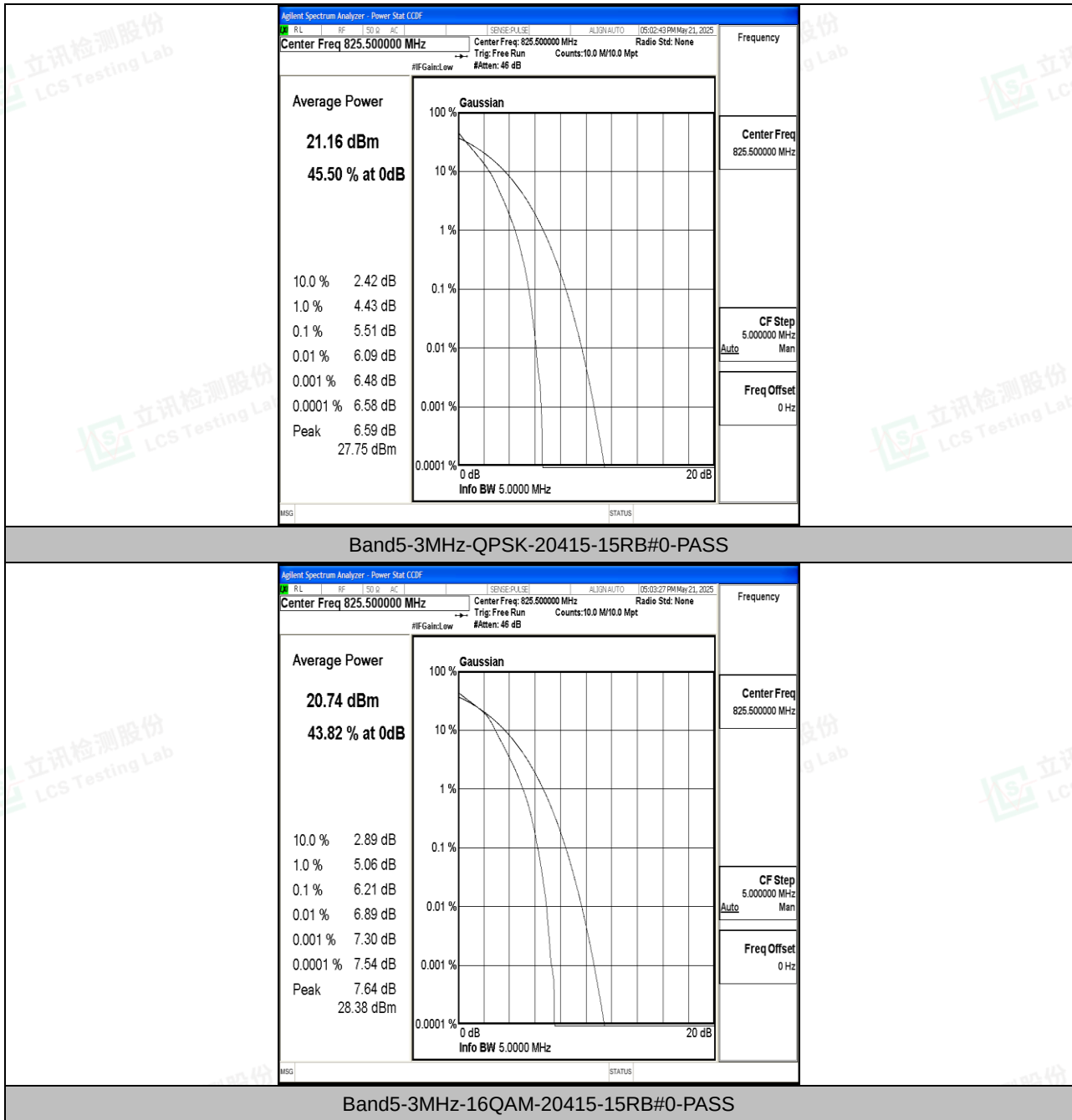
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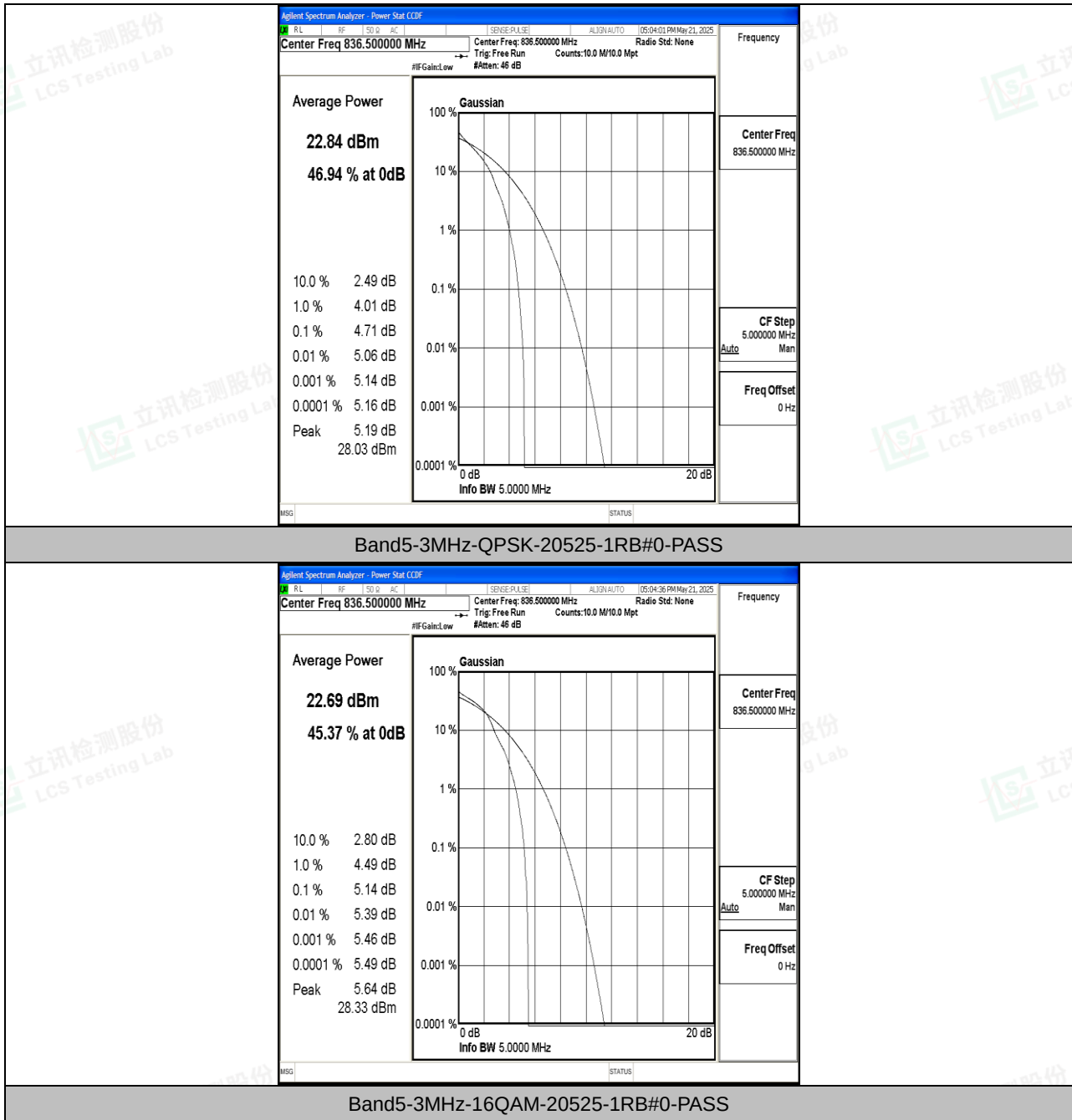


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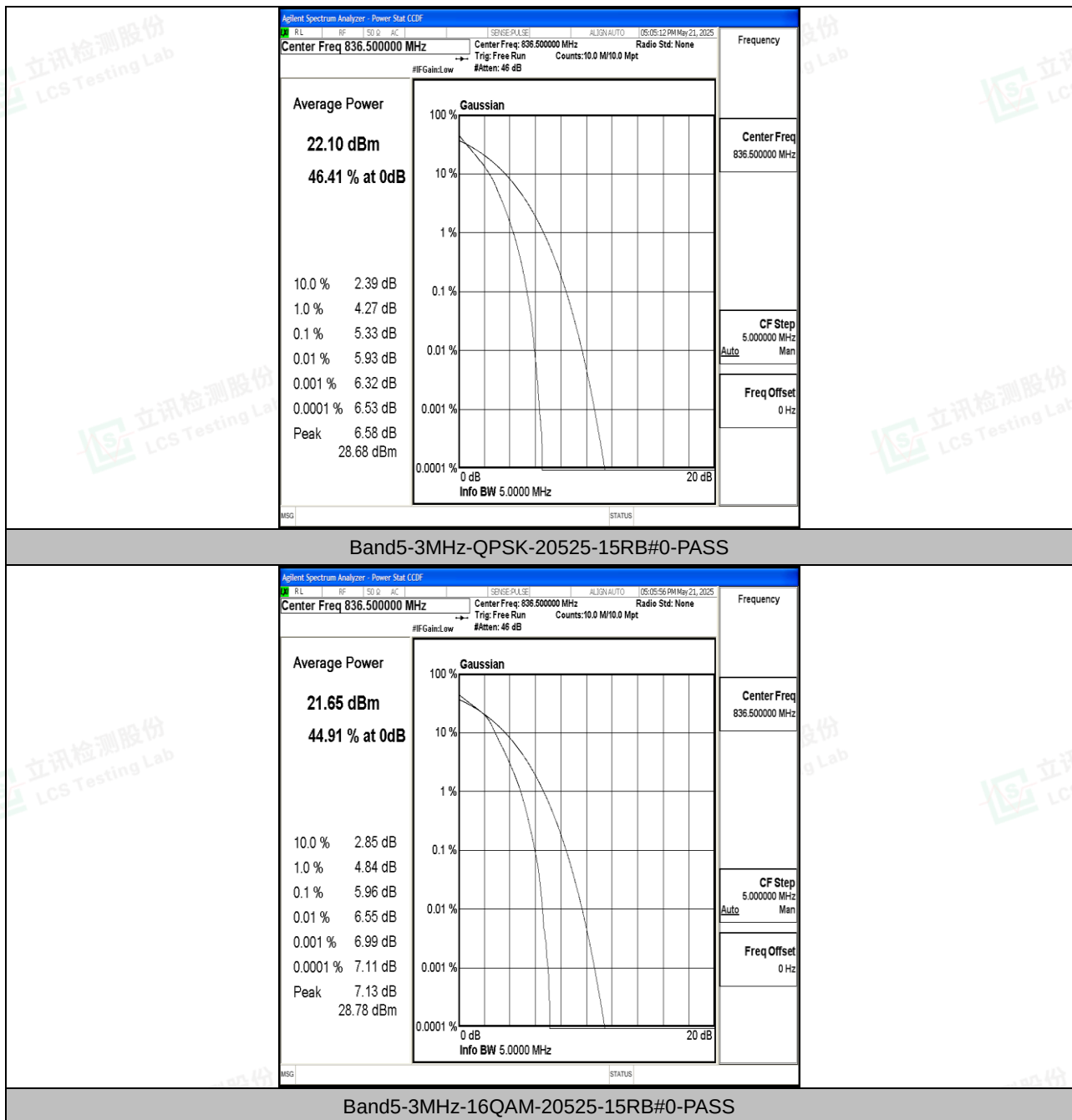


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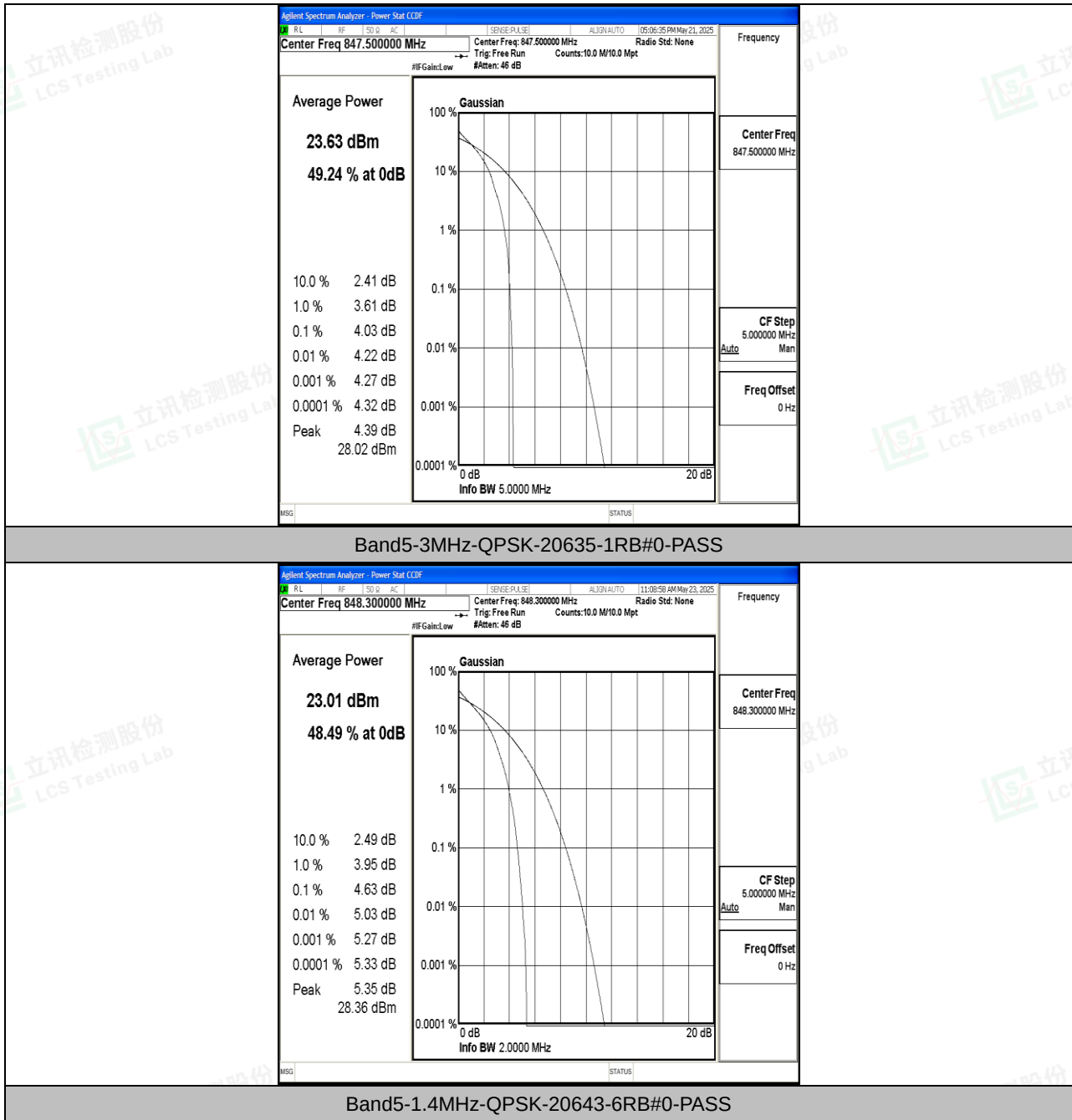


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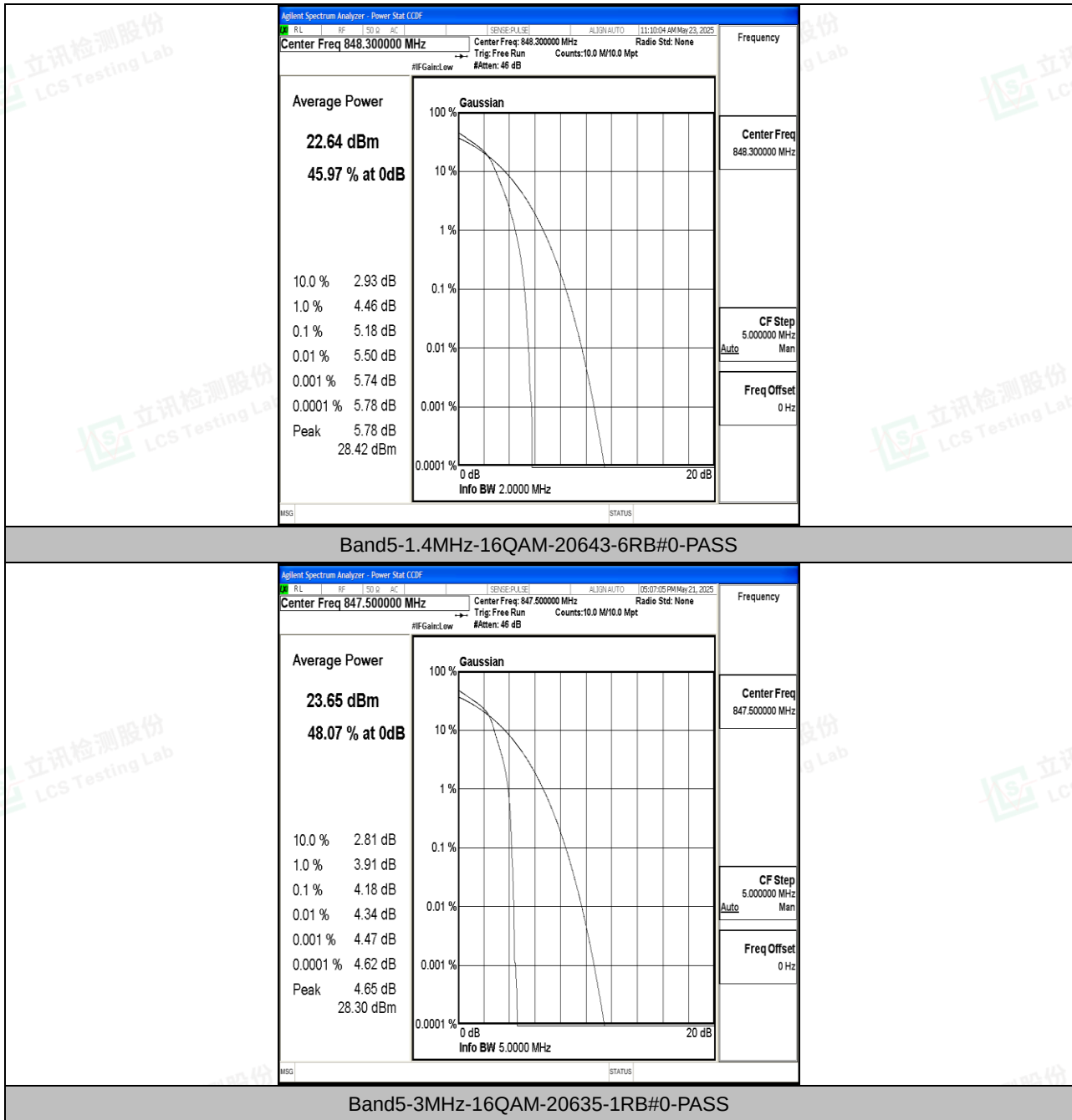


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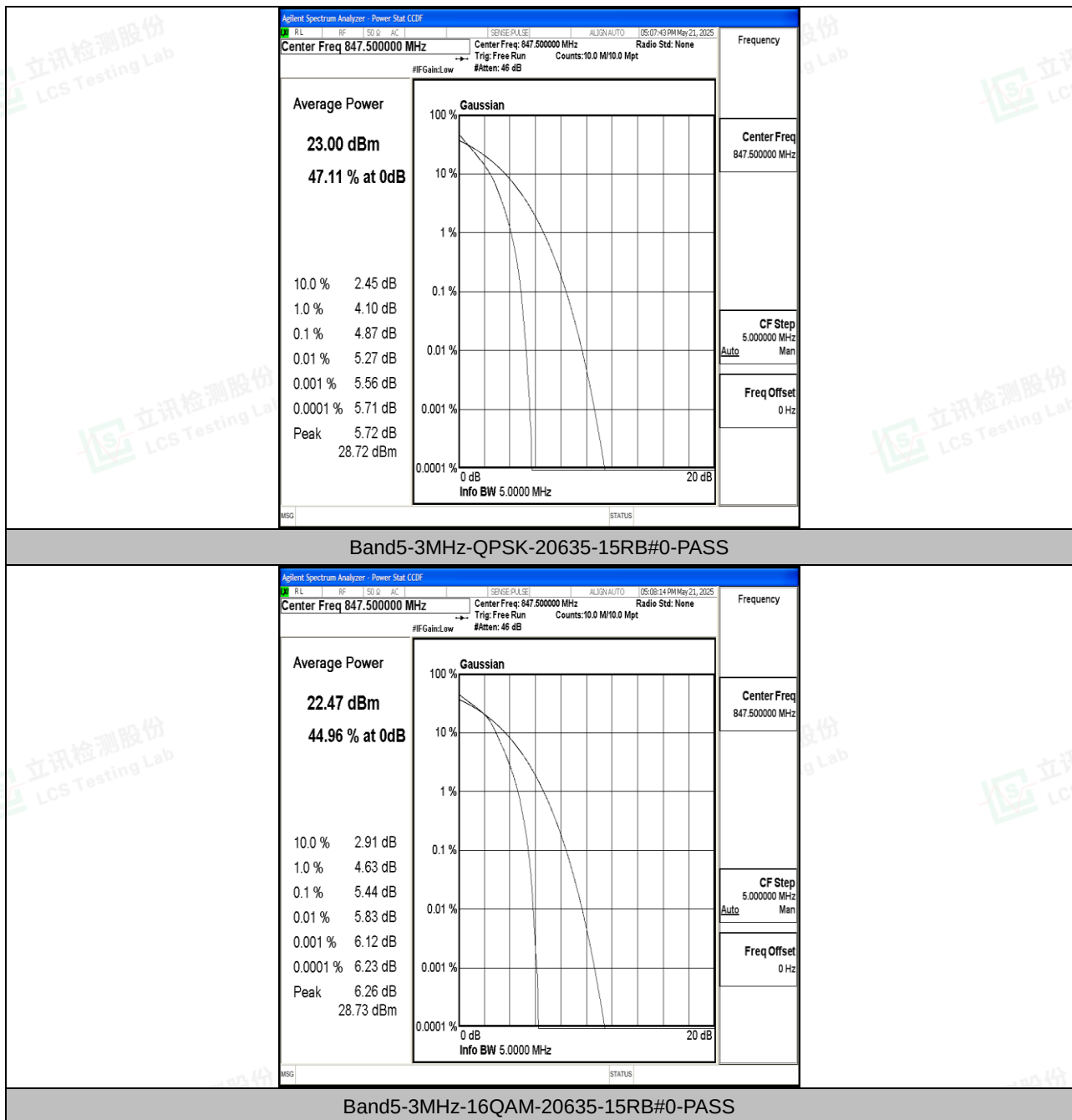


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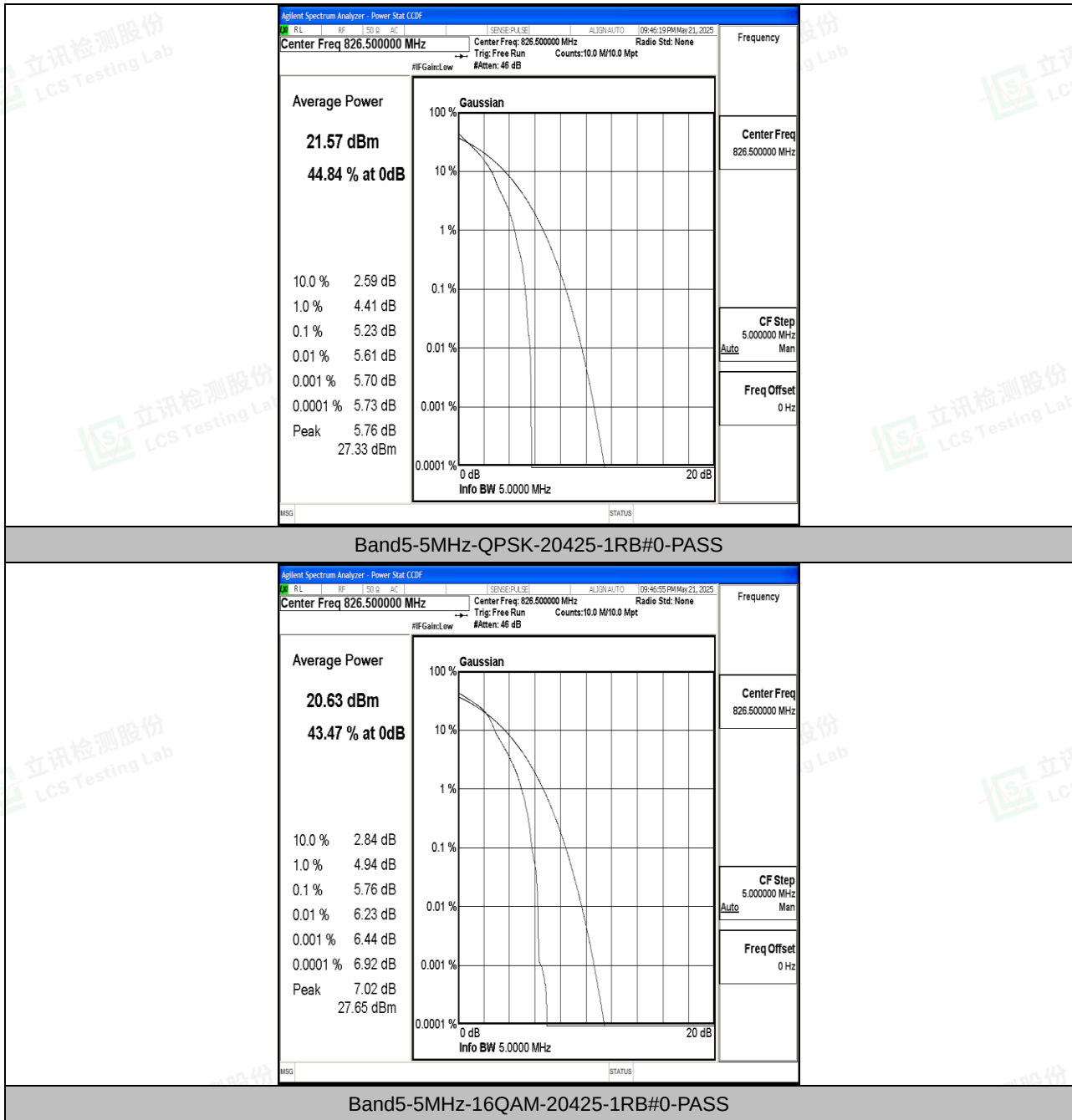


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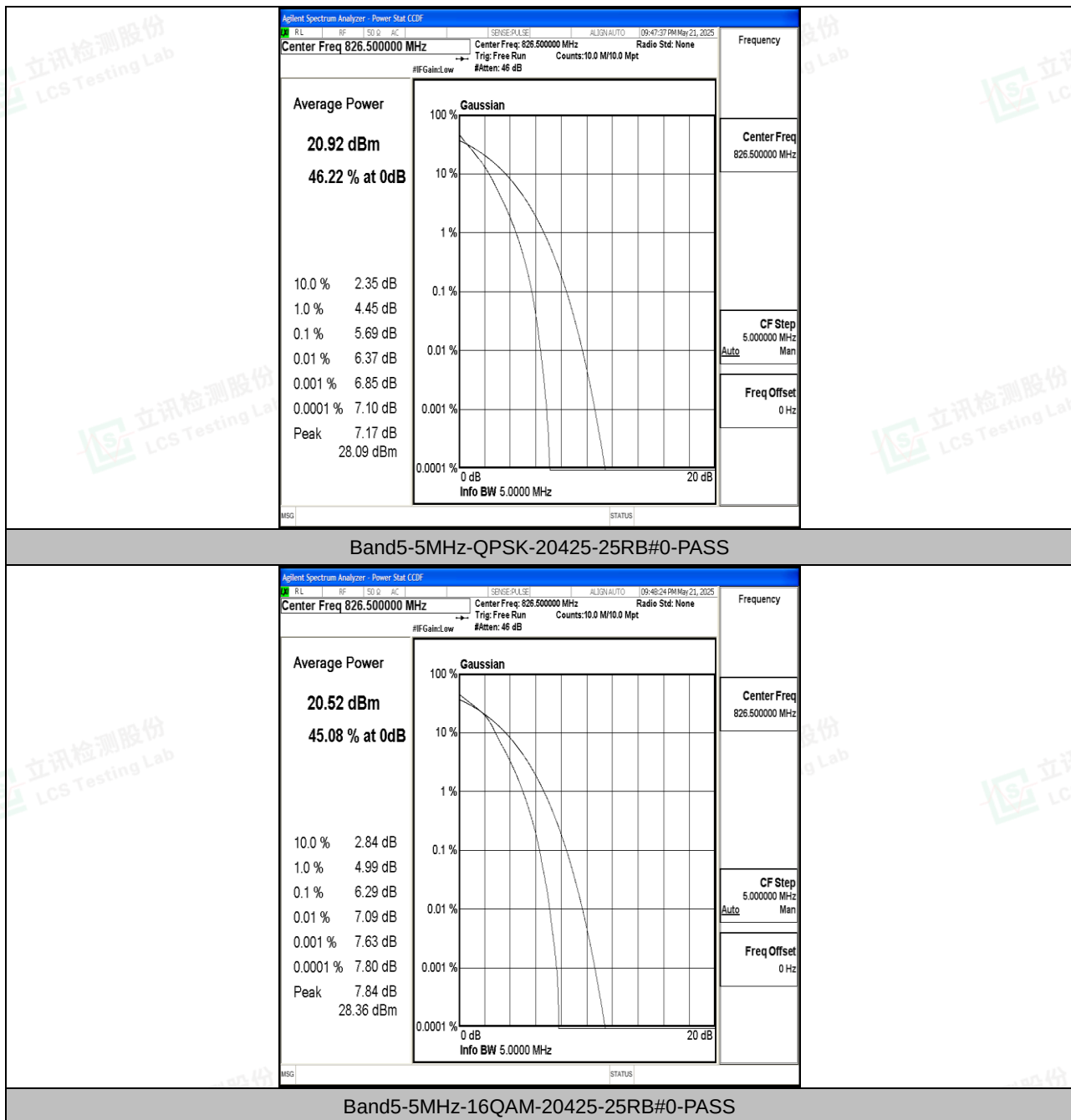
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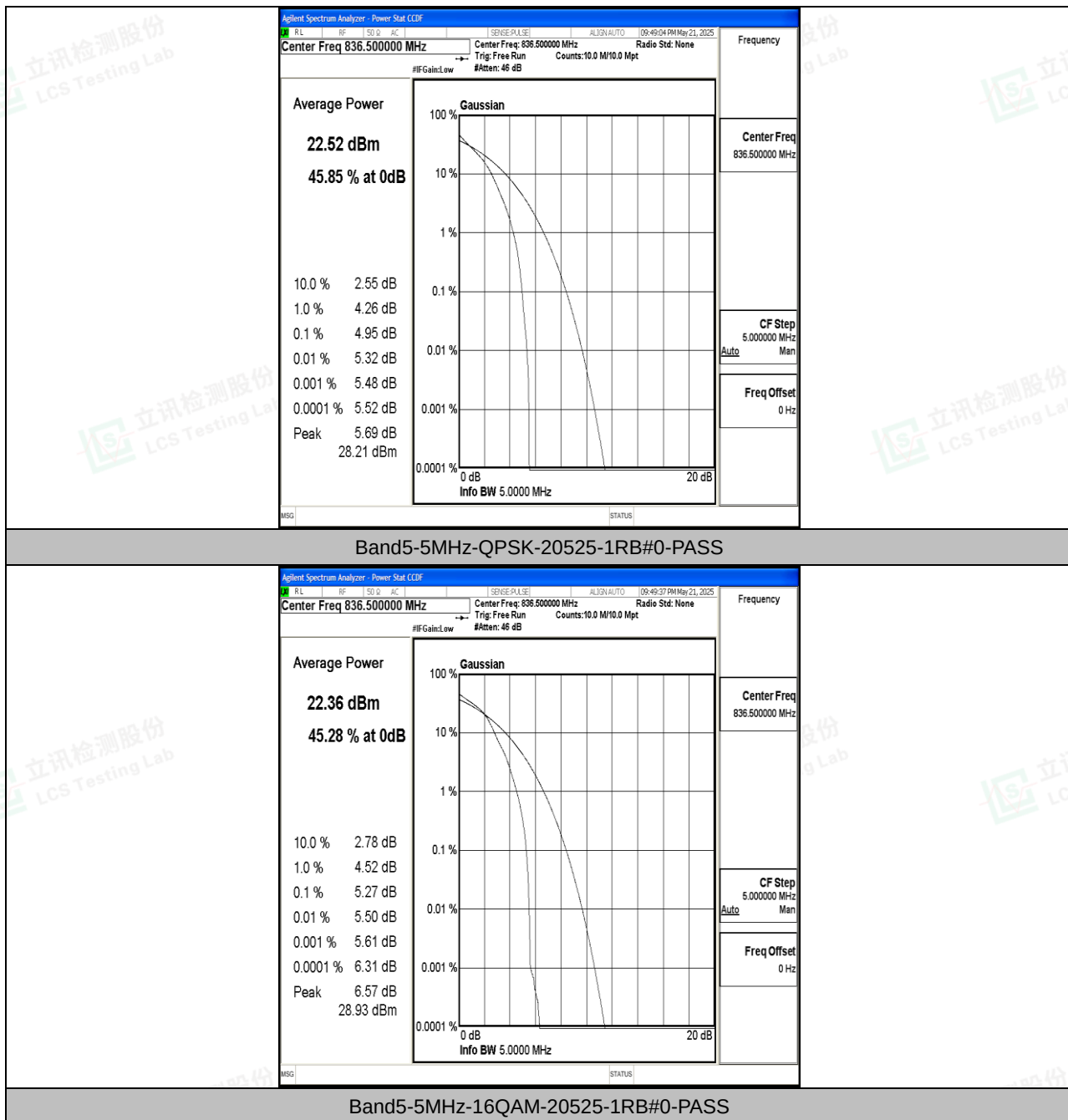


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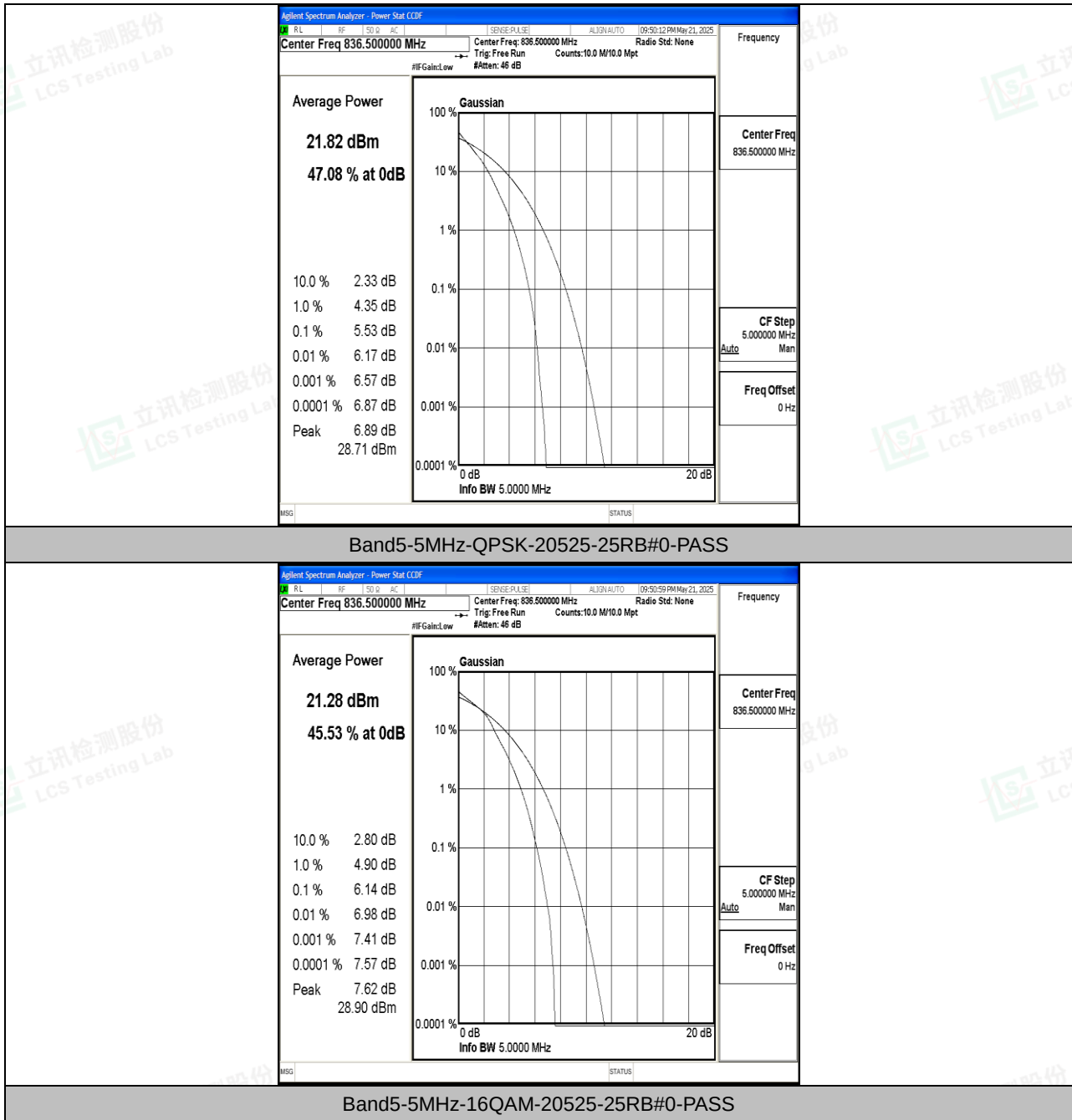


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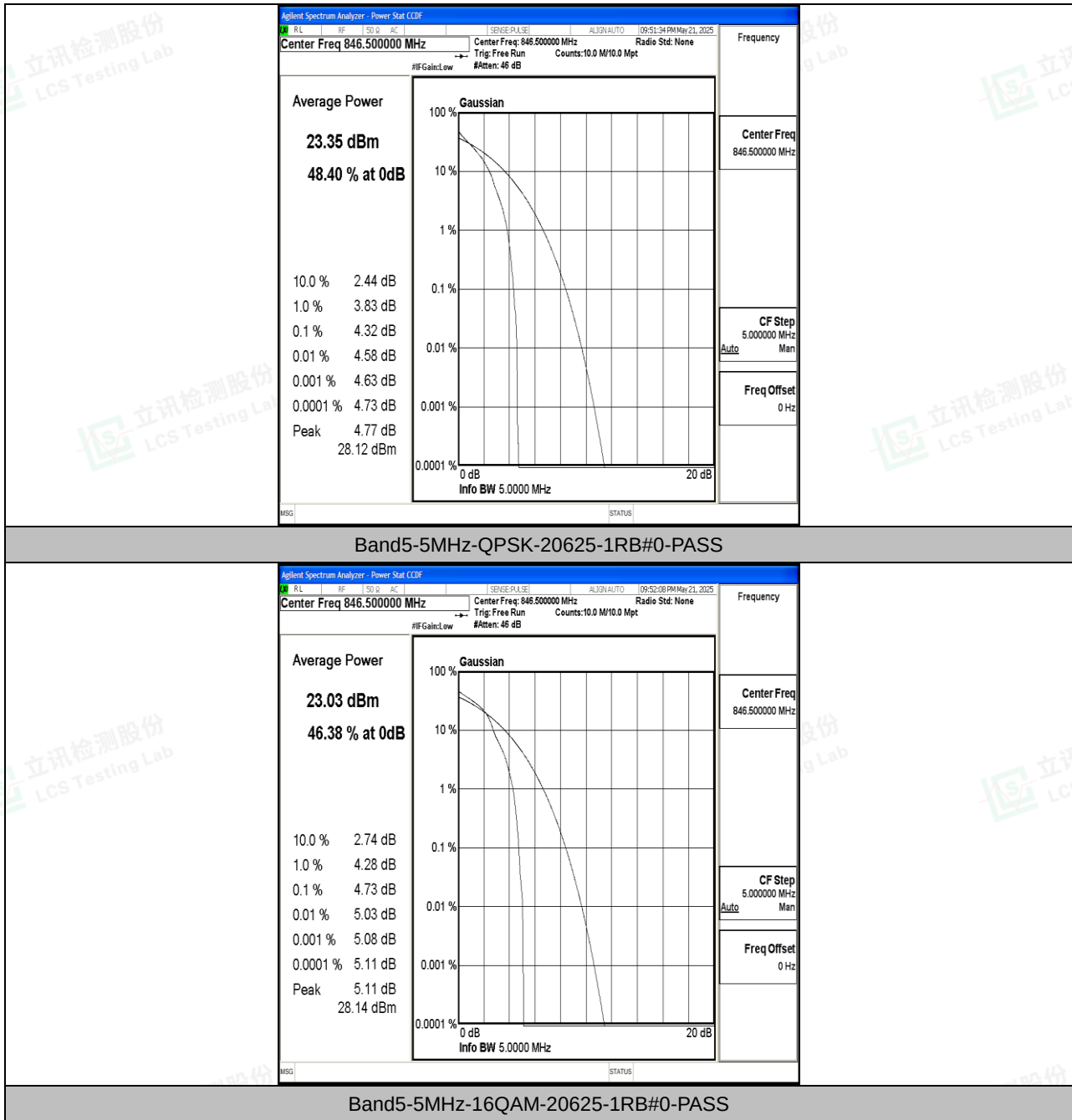


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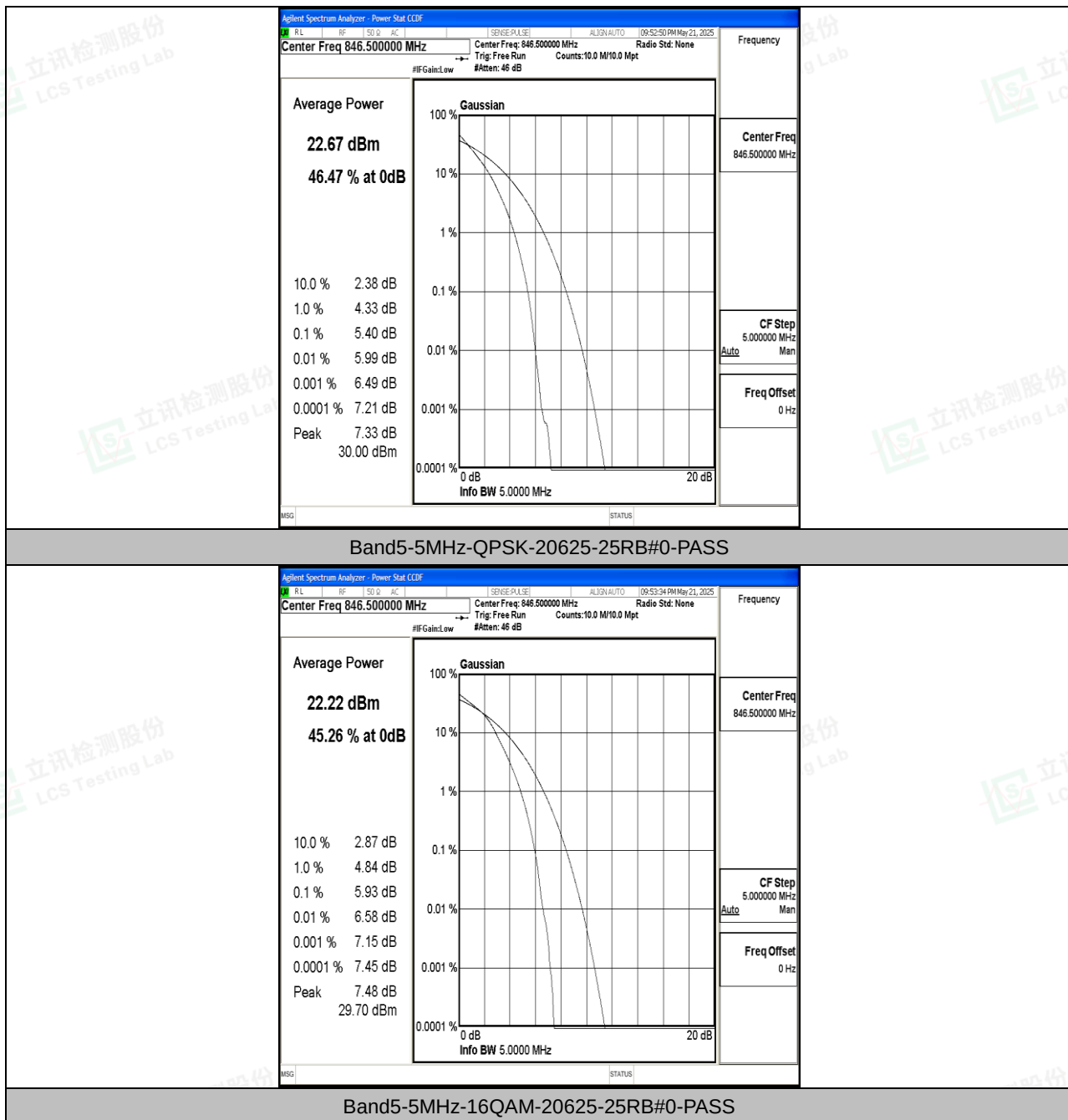


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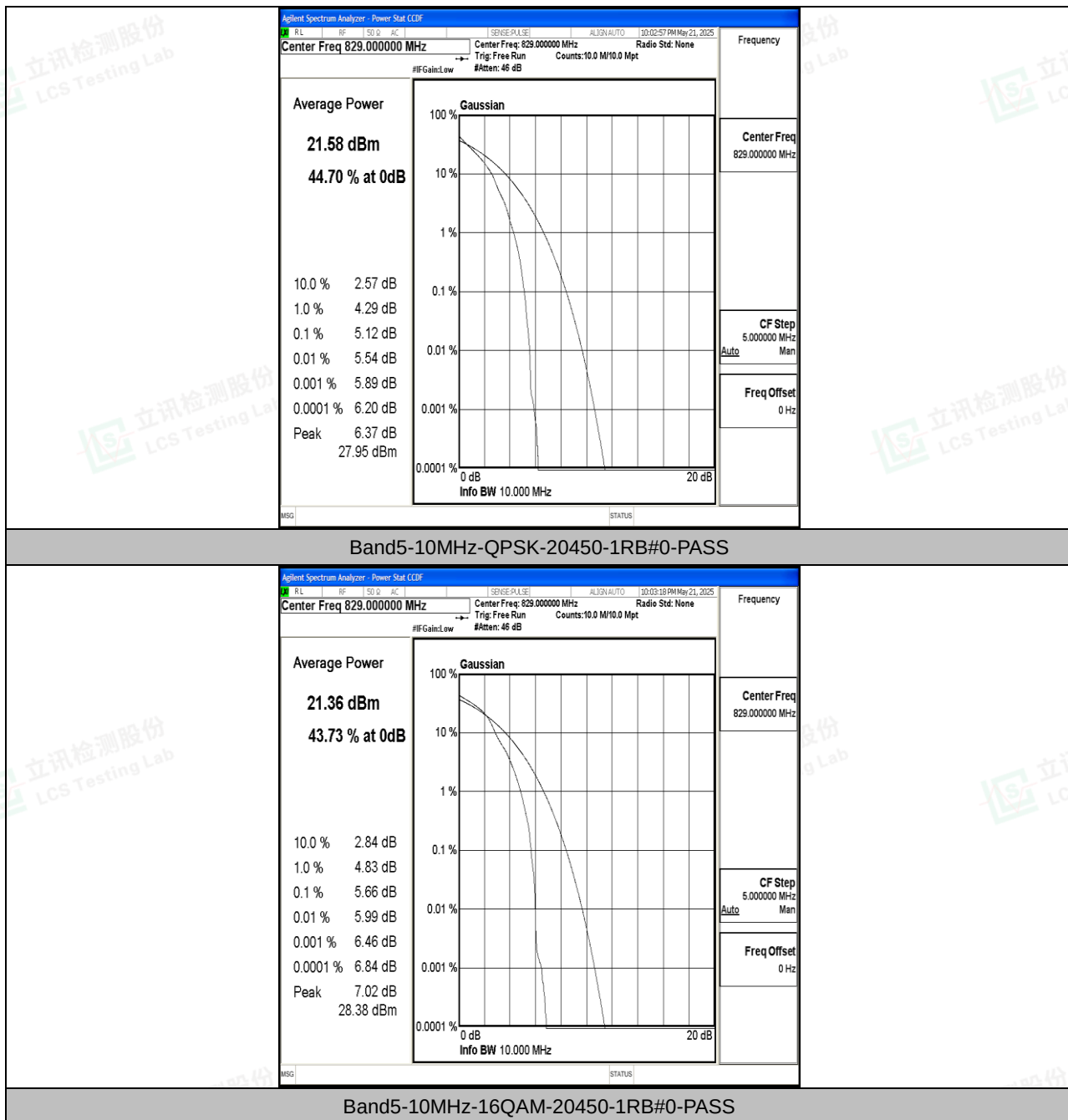


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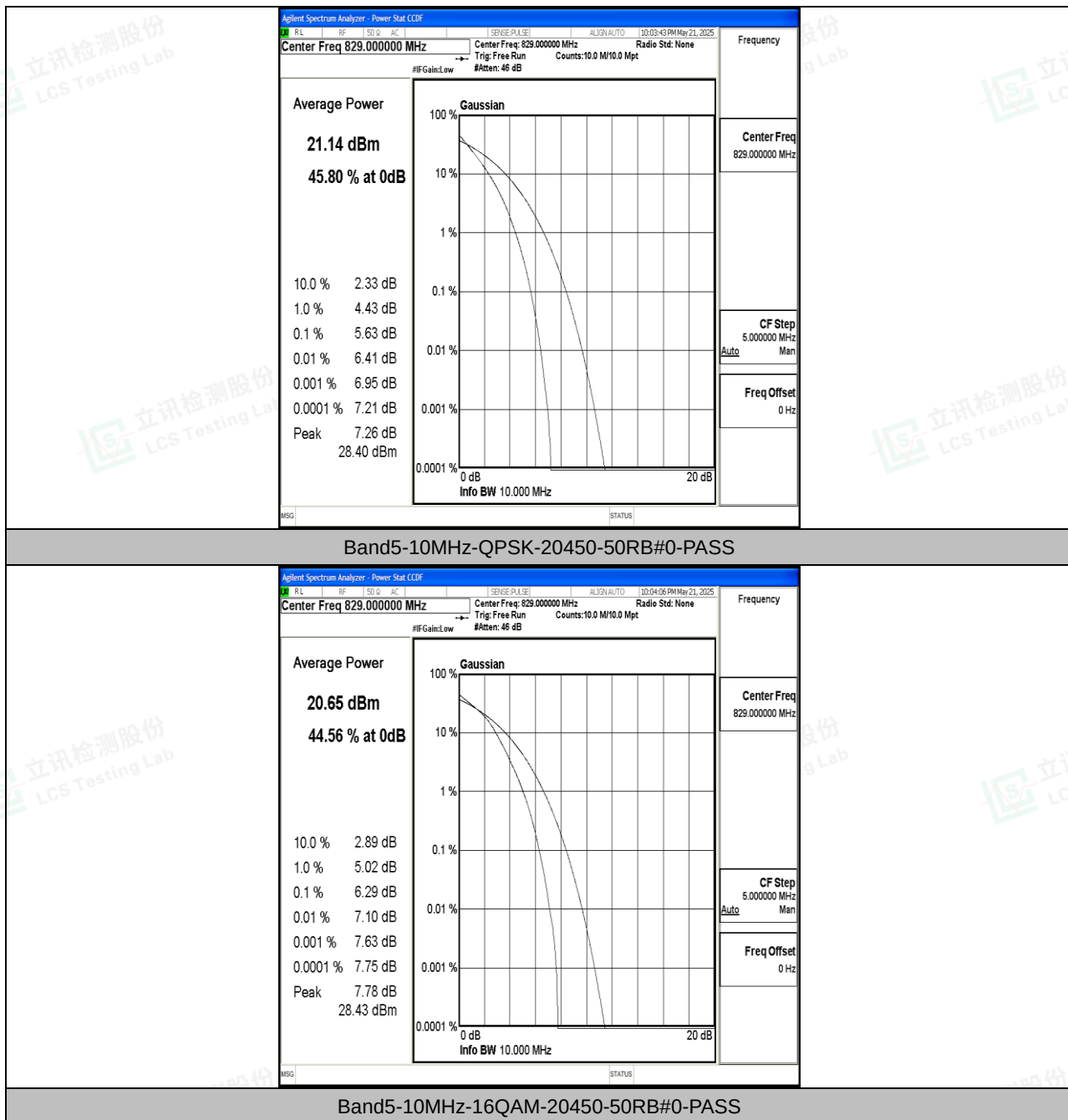


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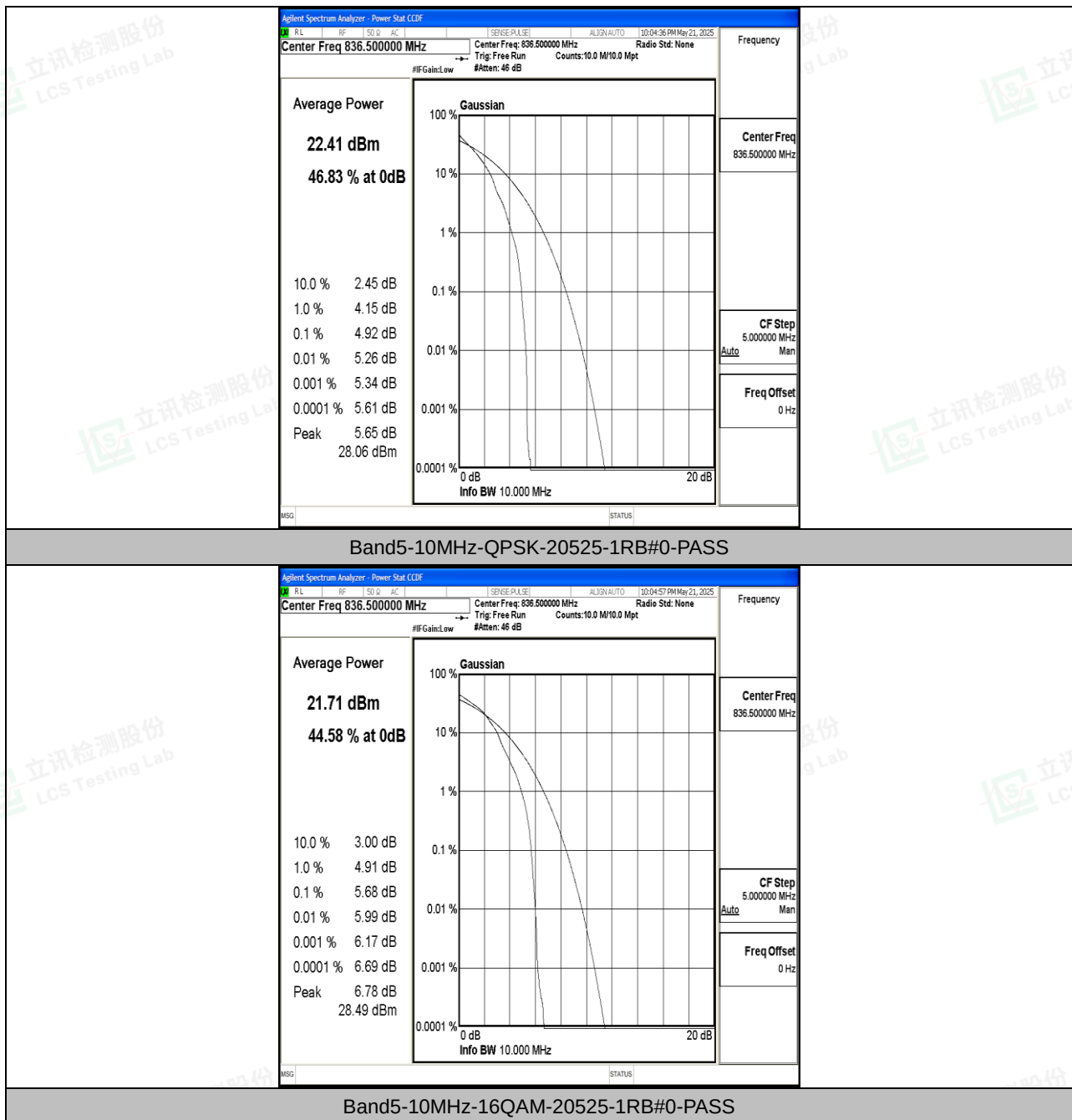
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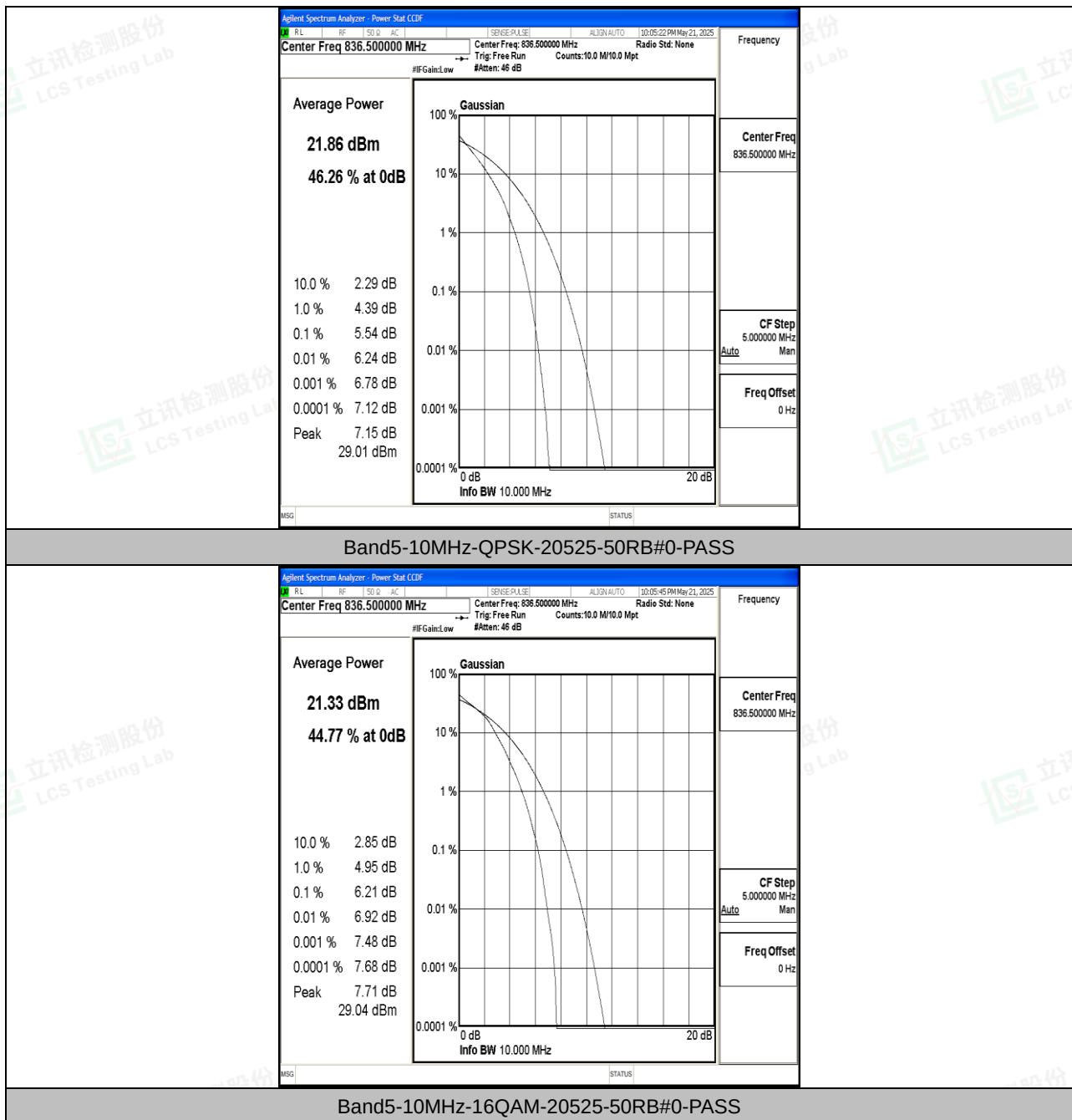


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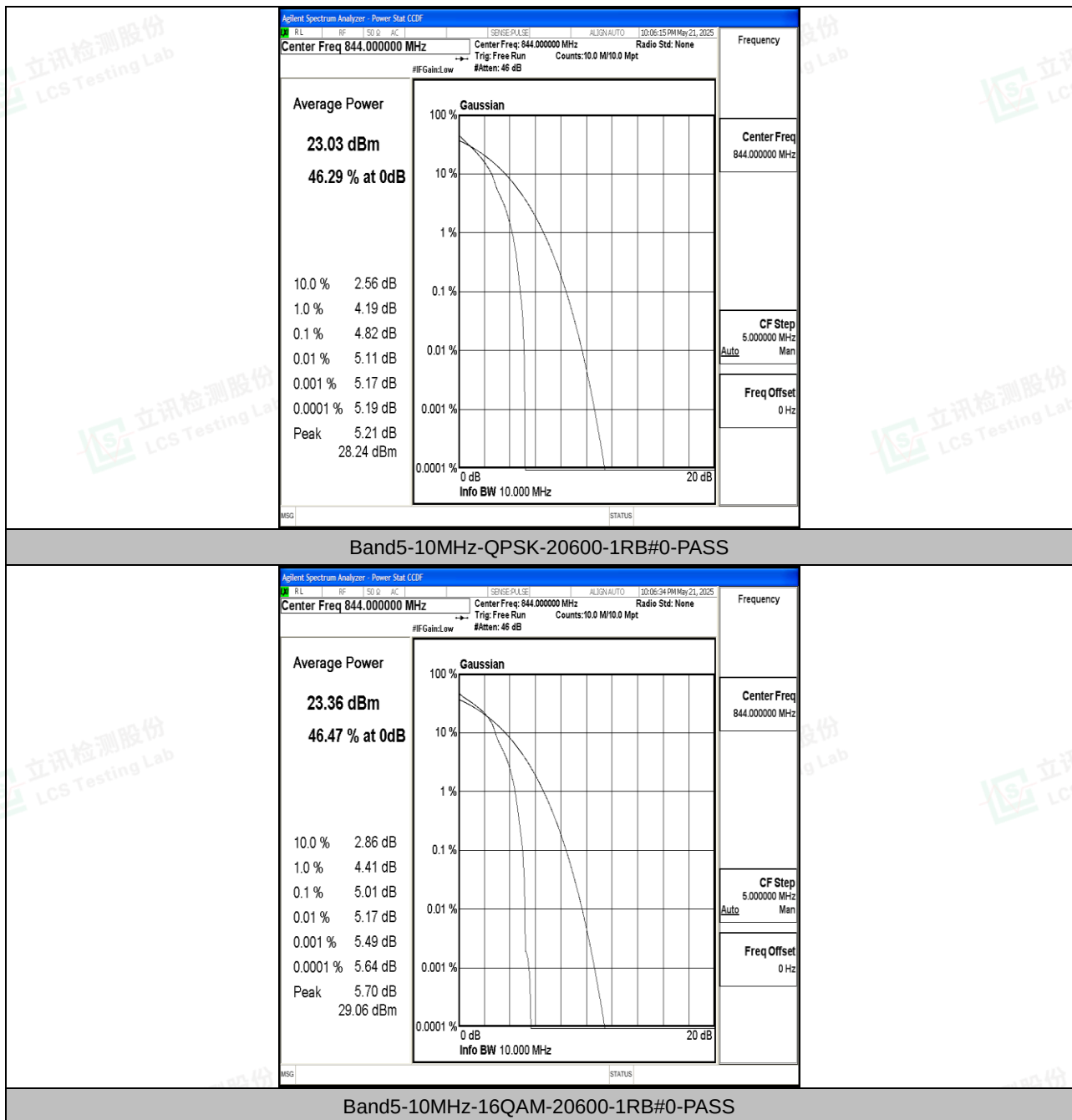


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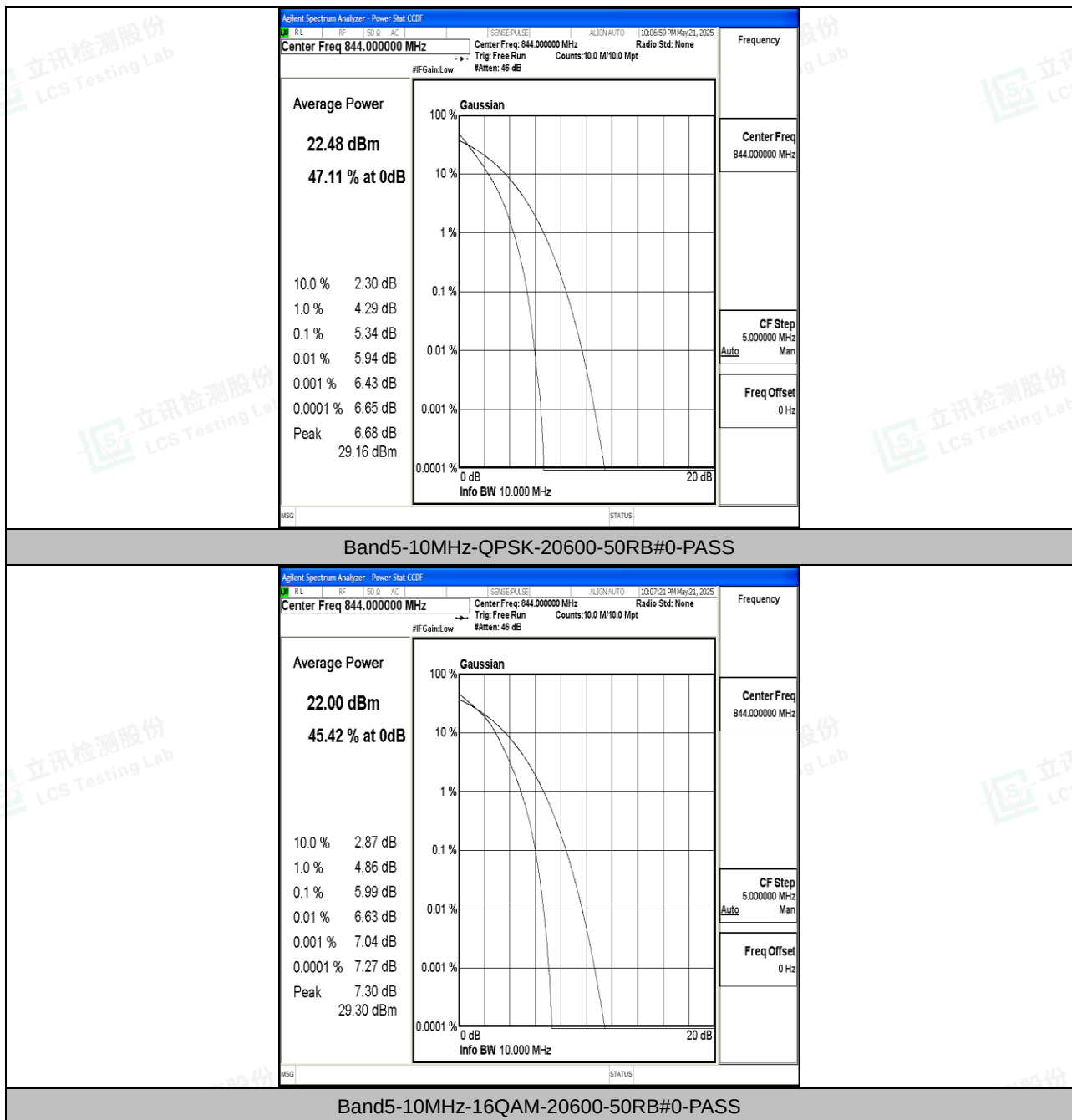


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### D.3 26dB Bandwidth and Occupied Bandwidth for LTE

#### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 1.0957                   | 1.301                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 1.1013                   | 1.284                | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 1.0978                   | 1.307                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 1.1022                   | 1.362                | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 1.1015                   | 1.283                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 1.0969                   | 1.356                | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | 2.7624                   | 3.275                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | 2.7670                   | 3.505                | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 15RB#0           | 2.7605                   | 3.441                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 15RB#0           | 2.7470                   | 3.280                | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | 2.7656                   | 3.466                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | 2.7747                   | 3.687                | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | 4.5141                   | 5.237                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | 4.5228                   | 5.270                | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | 4.5080                   | 5.390                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | 4.5248                   | 5.363                | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | 4.5200                   | 5.239                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | 4.5483                   | 5.273                | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | 8.9863                   | 10.00                | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0           | 8.9631                   | 9.894                | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | 9.0171                   | 10.15                | PASS    |
| Band5 | 10MHz     | 16QAM      | 20525   | 50RB#0           | 9.0241                   | 10.42                | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | 8.9555                   | 9.938                | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0           | 8.9847                   | 9.964                | PASS    |



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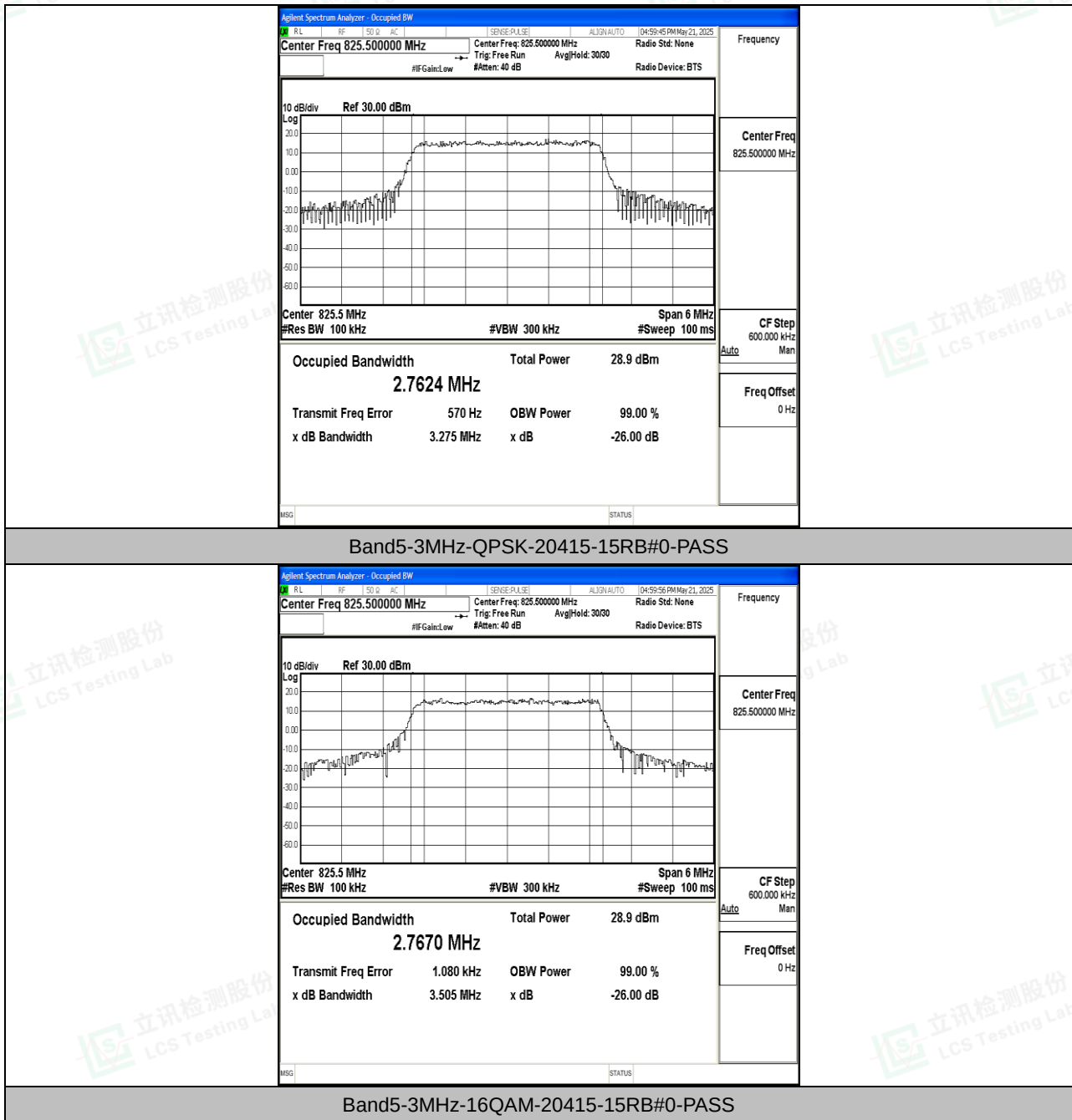
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## Test Graphs

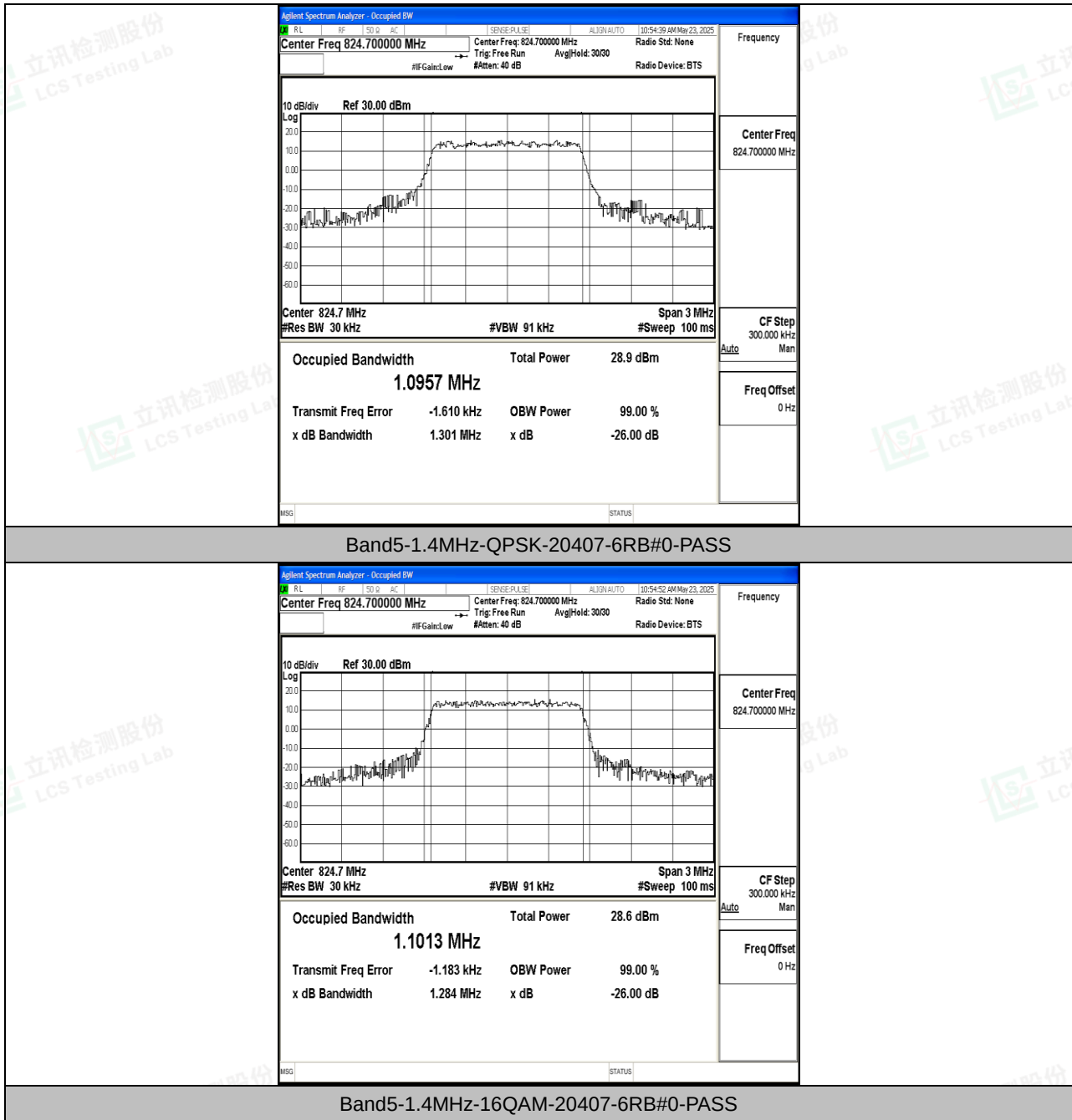


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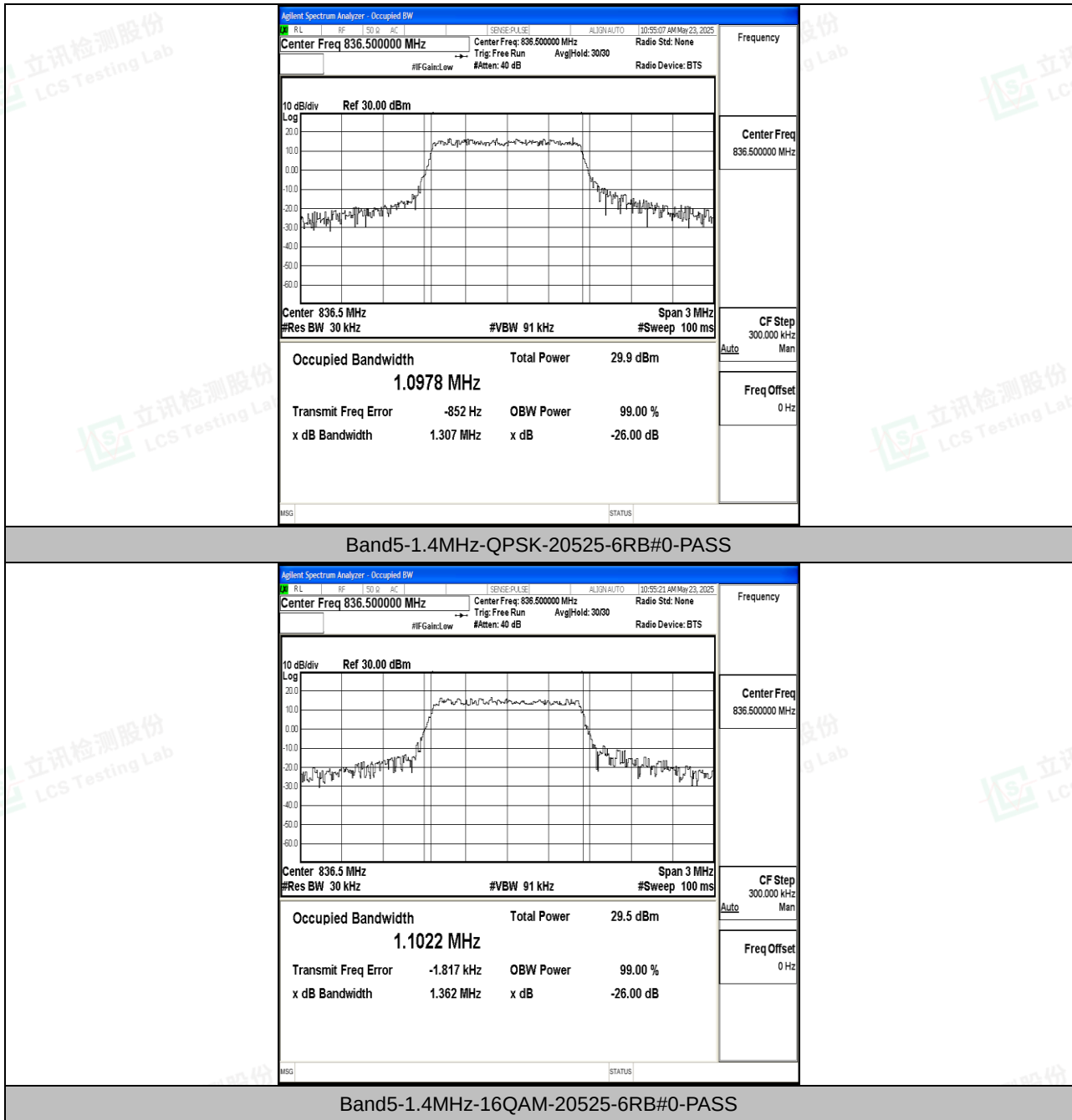
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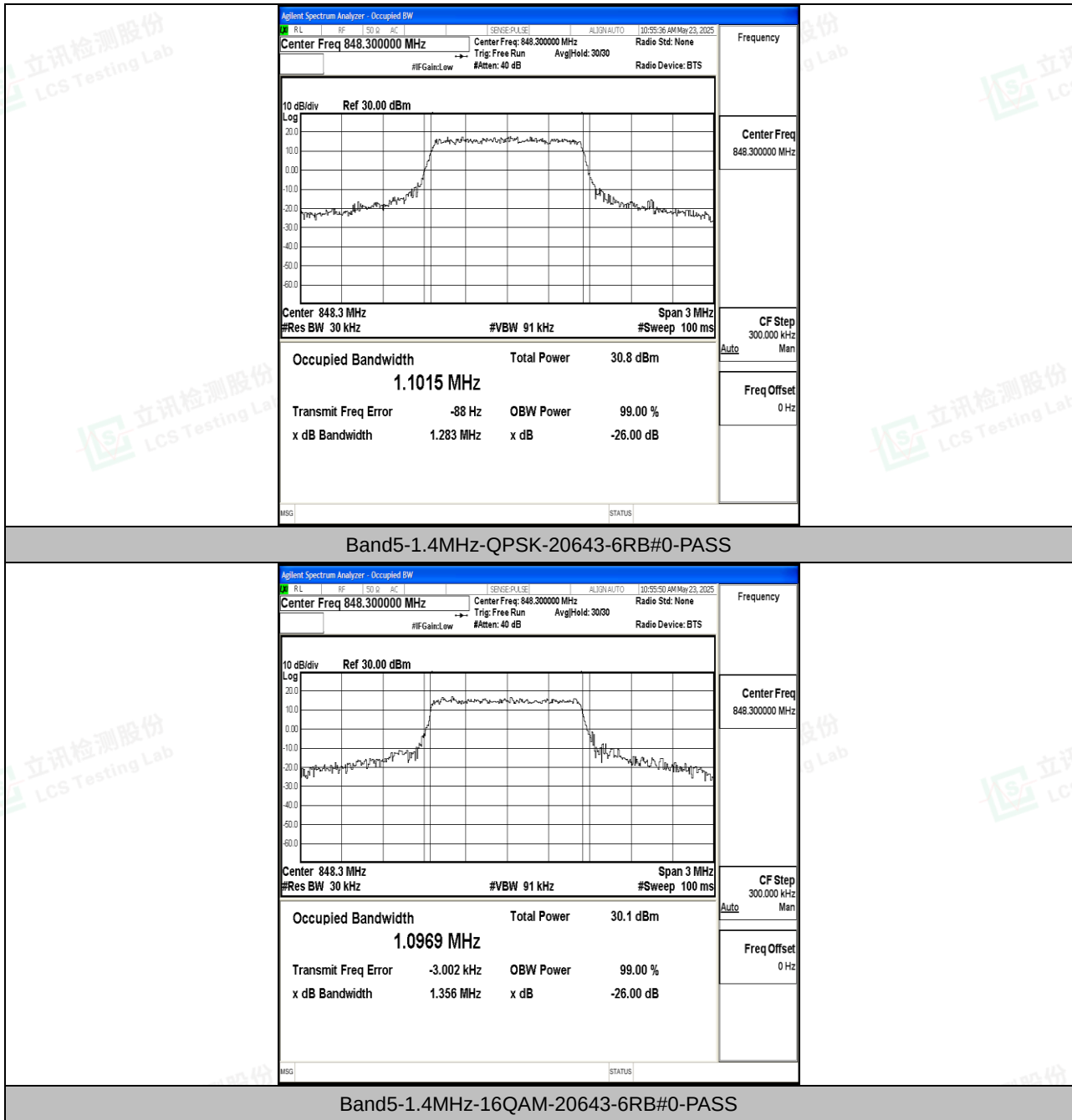


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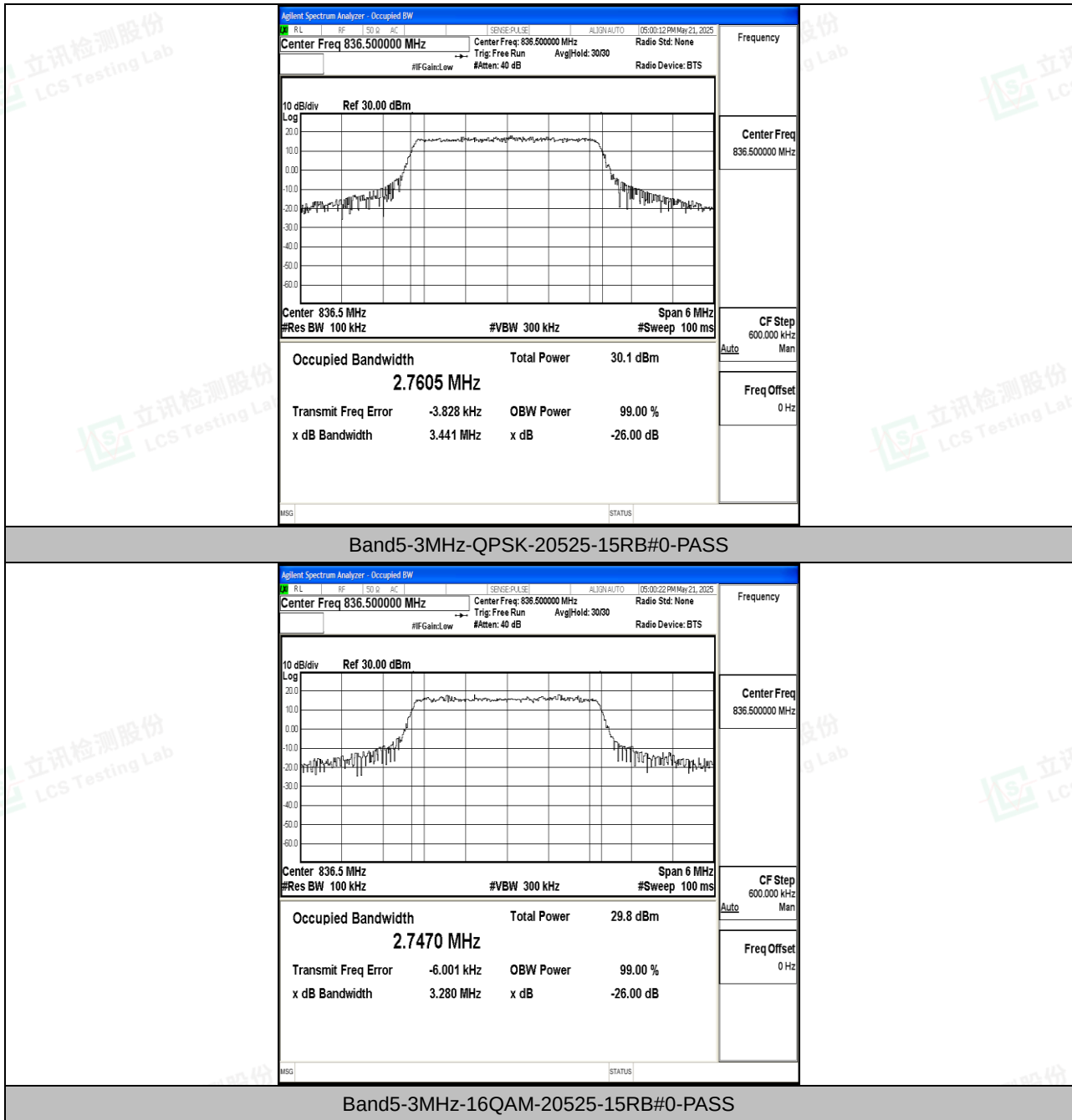


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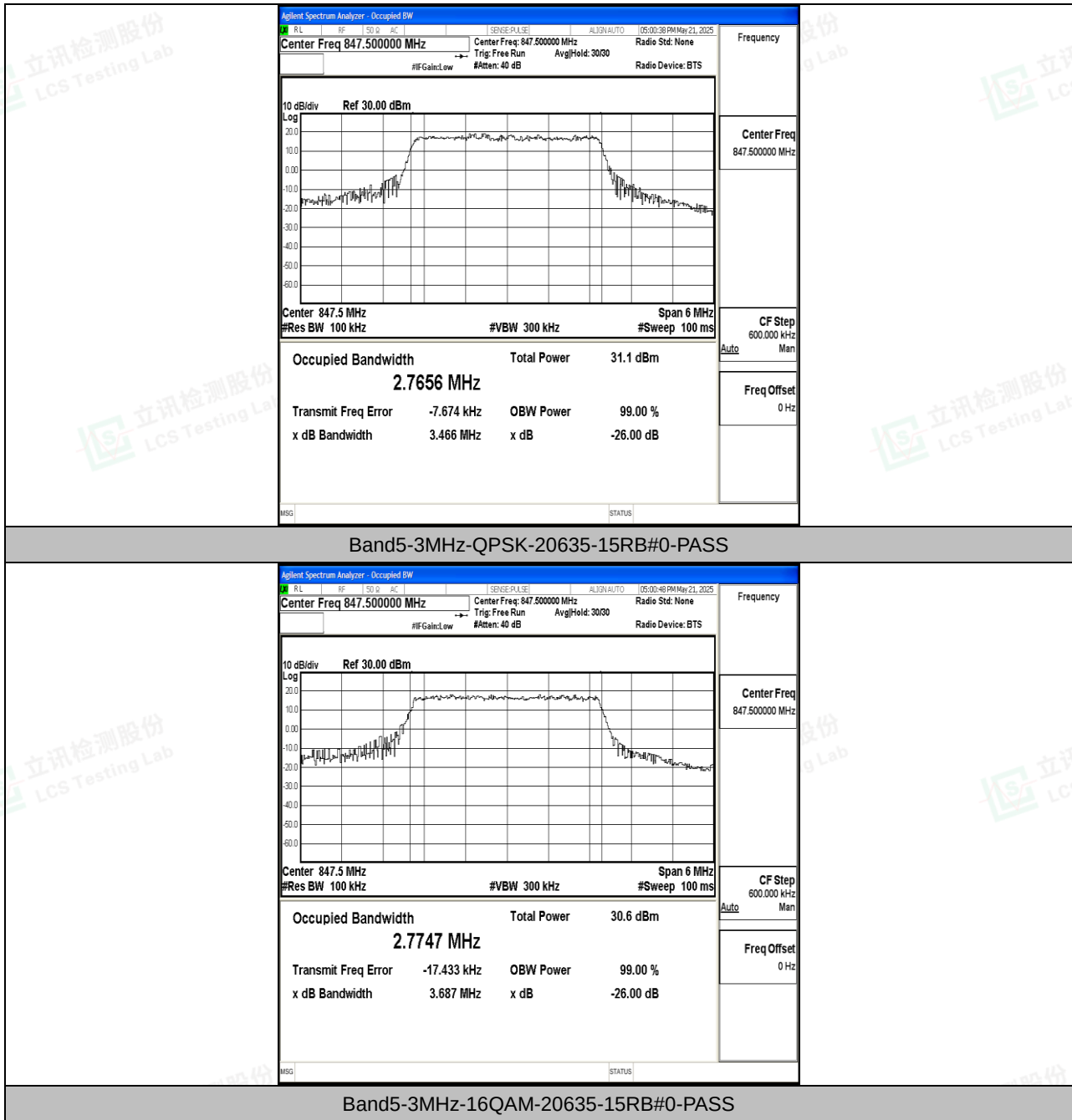


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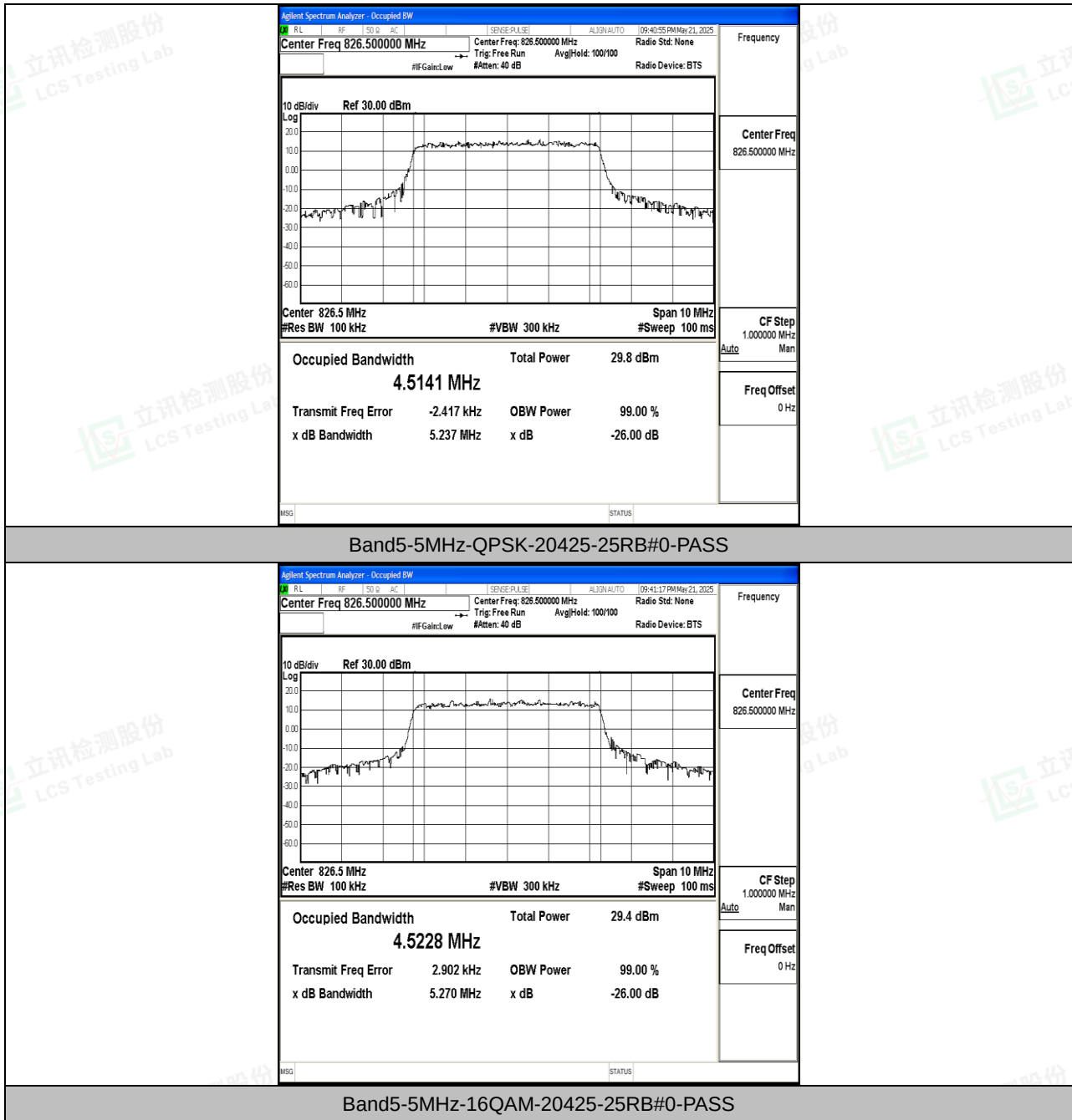


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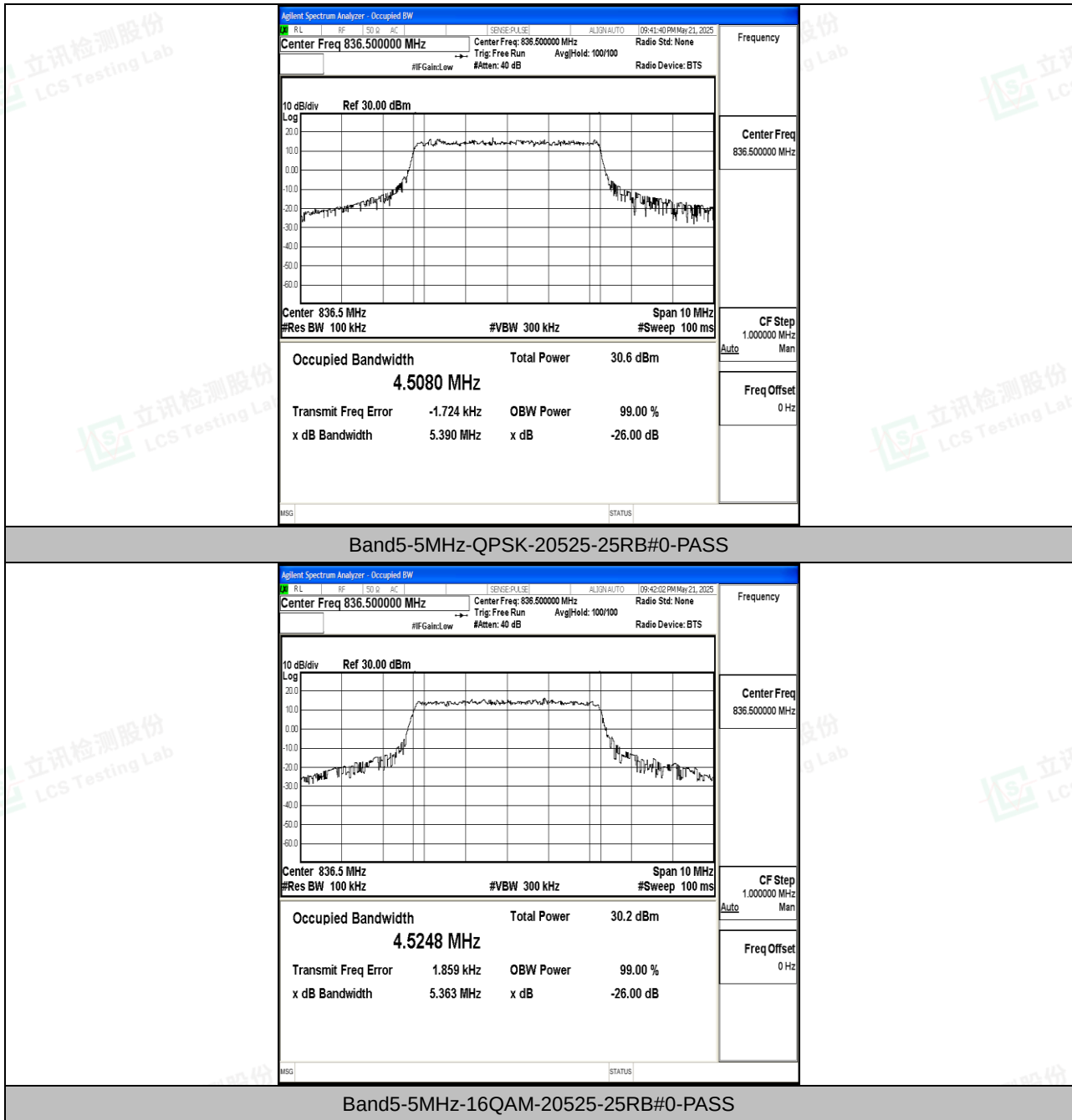


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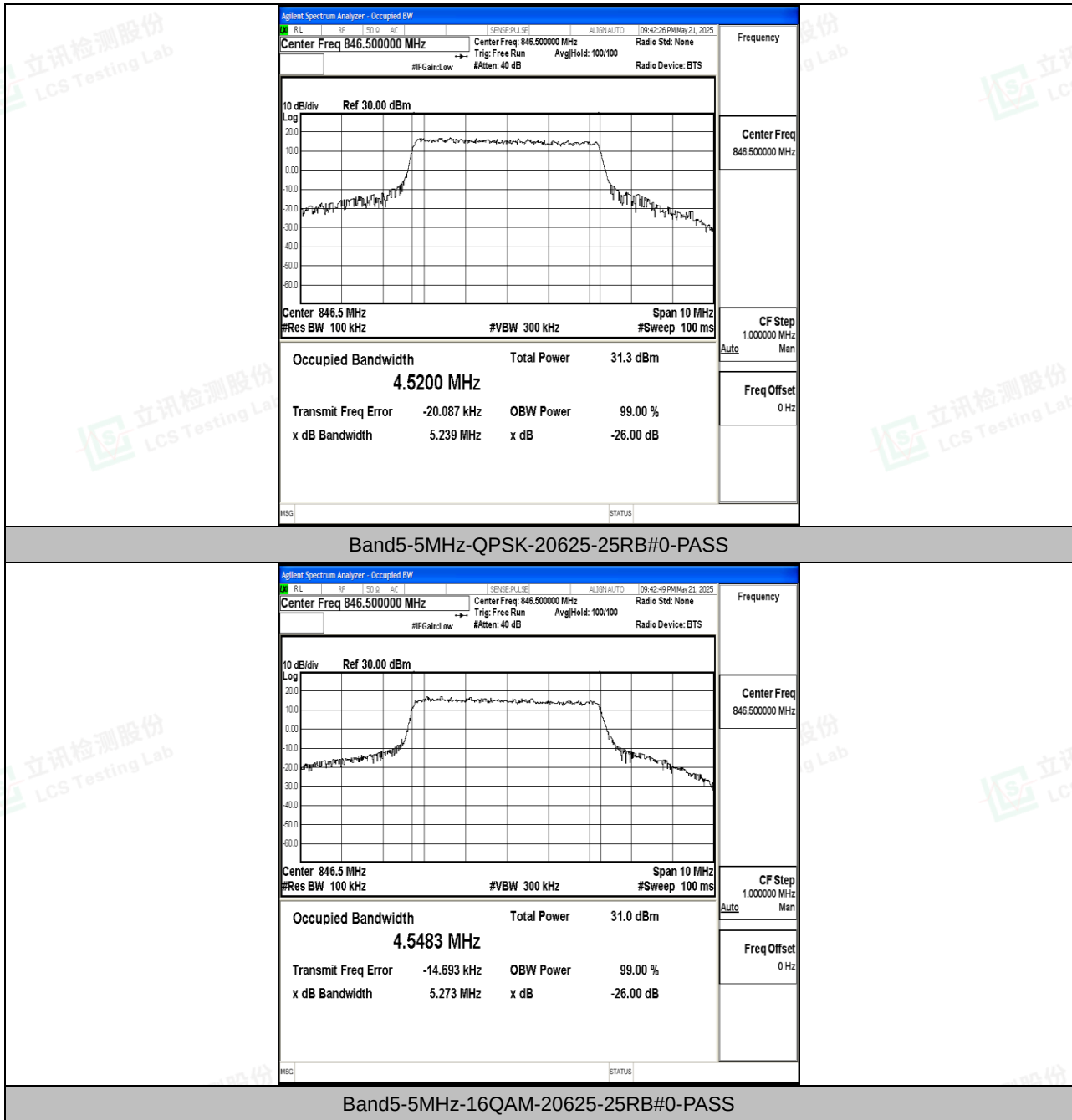


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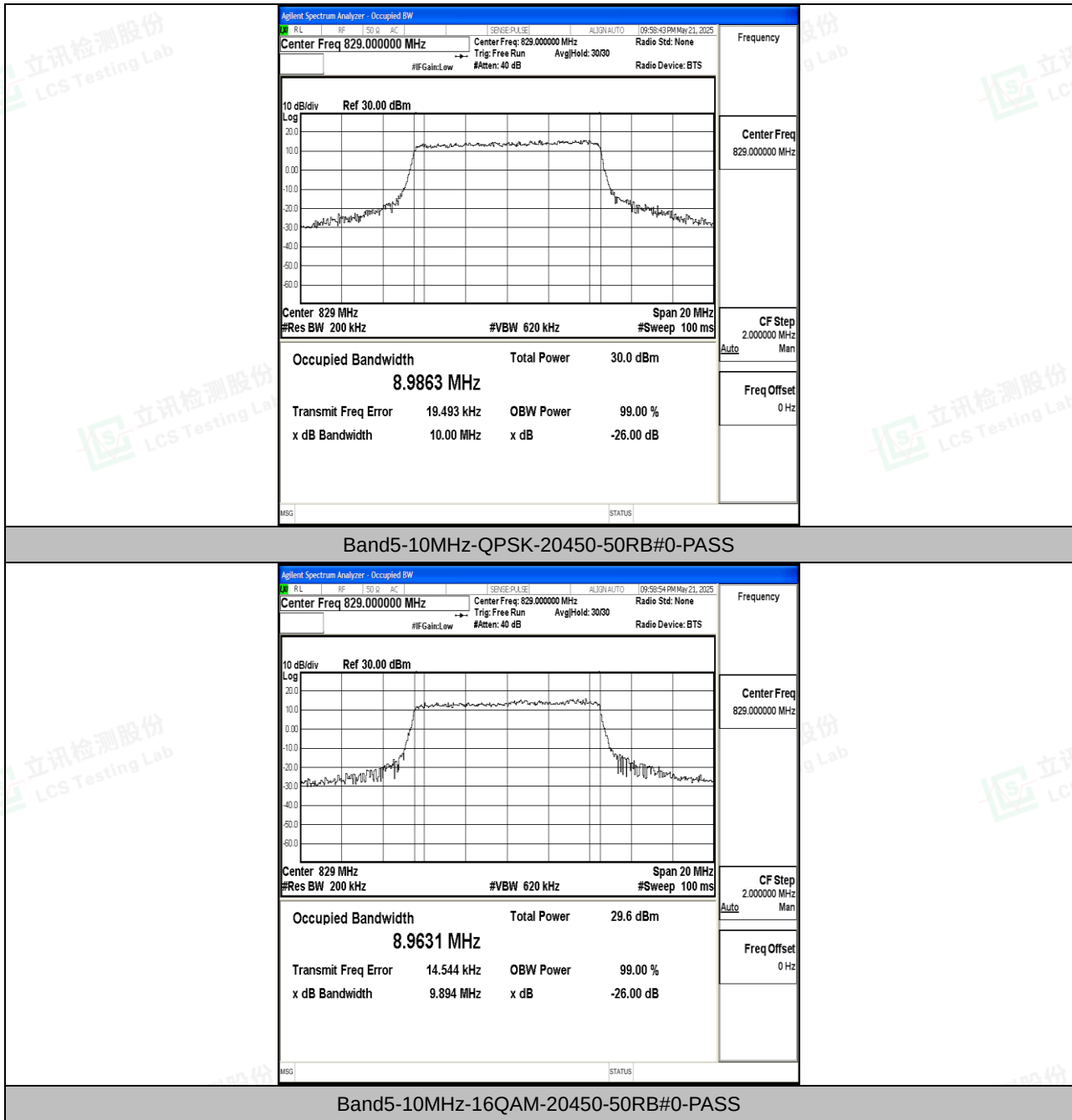
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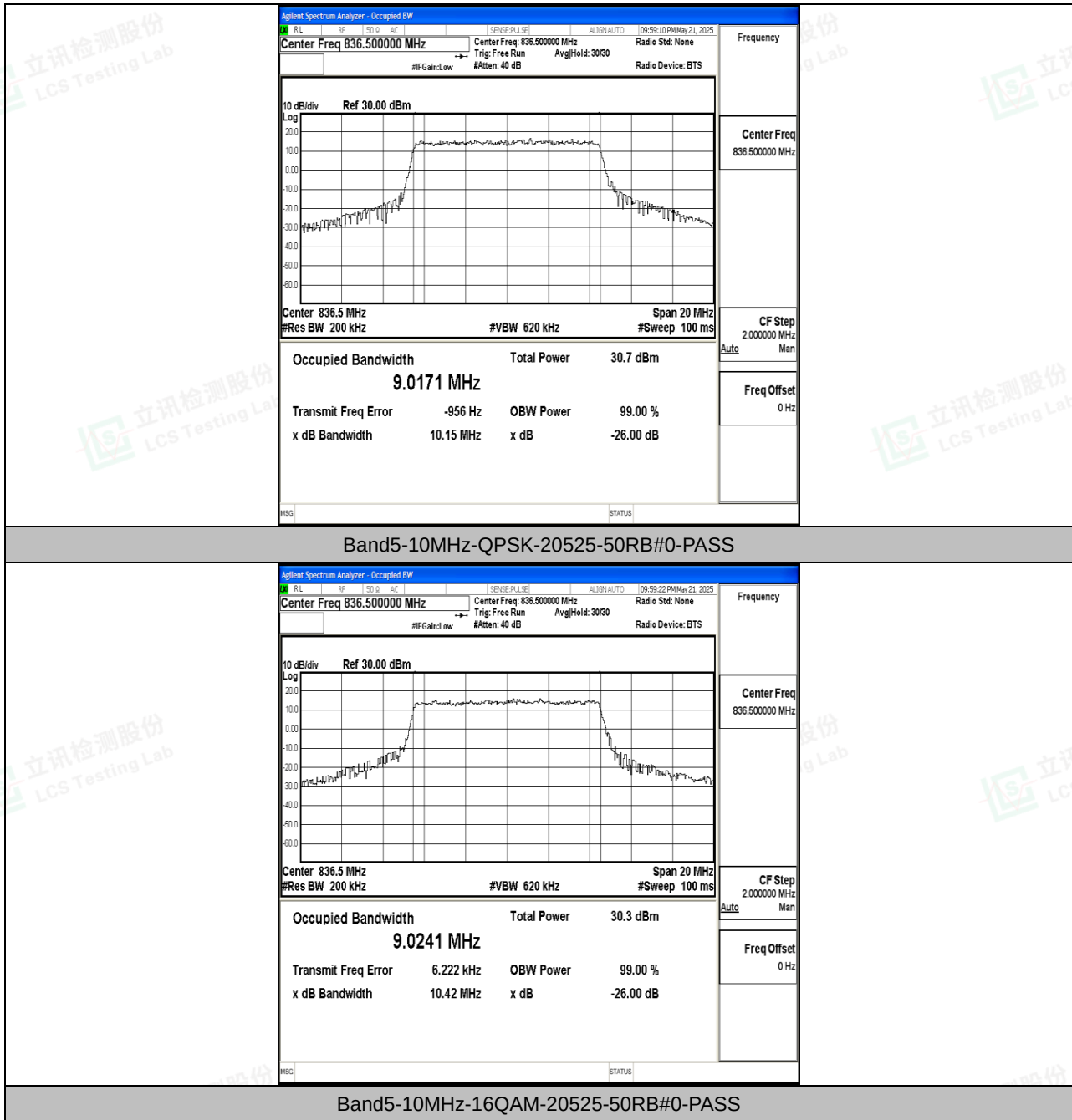


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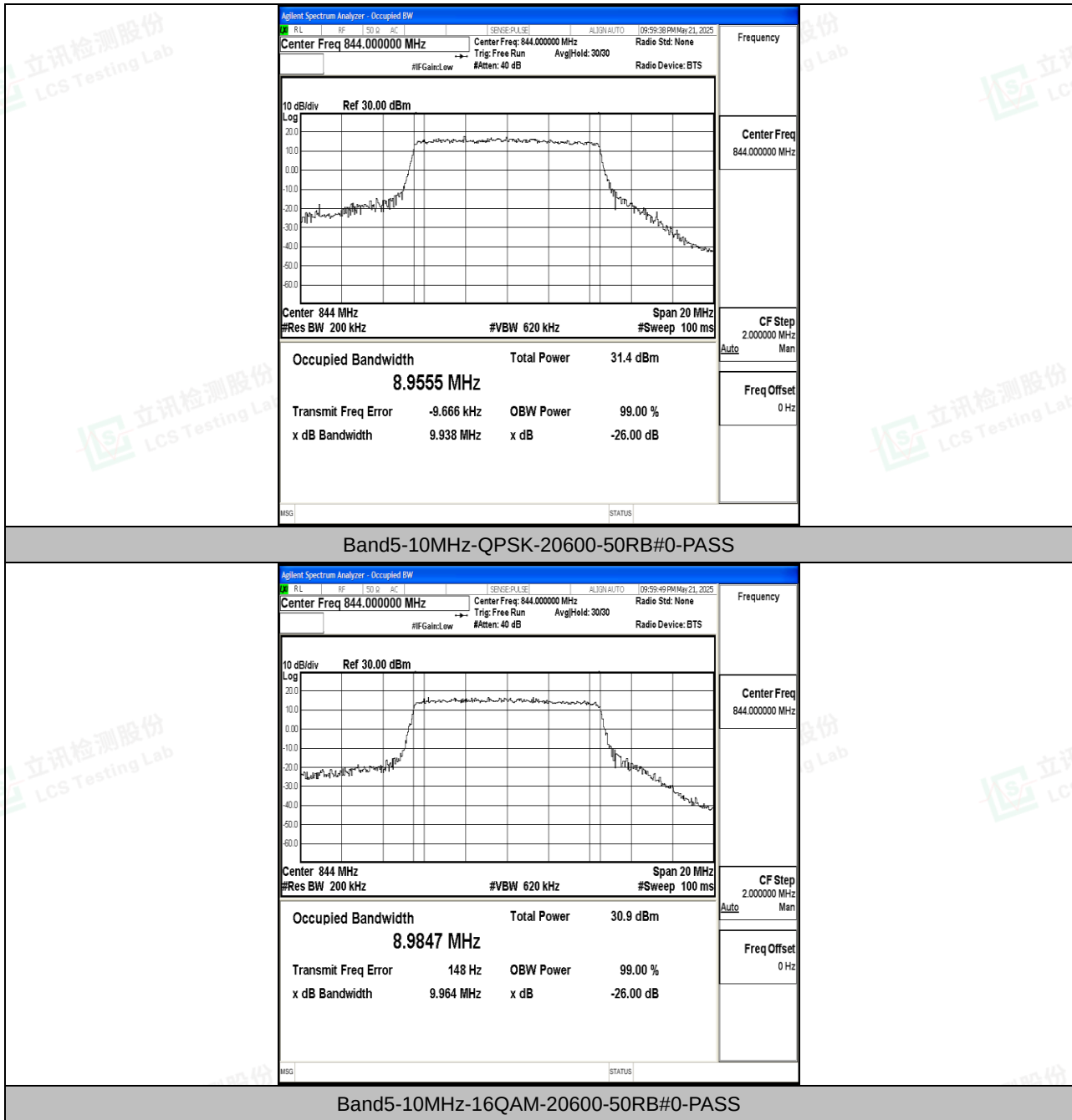


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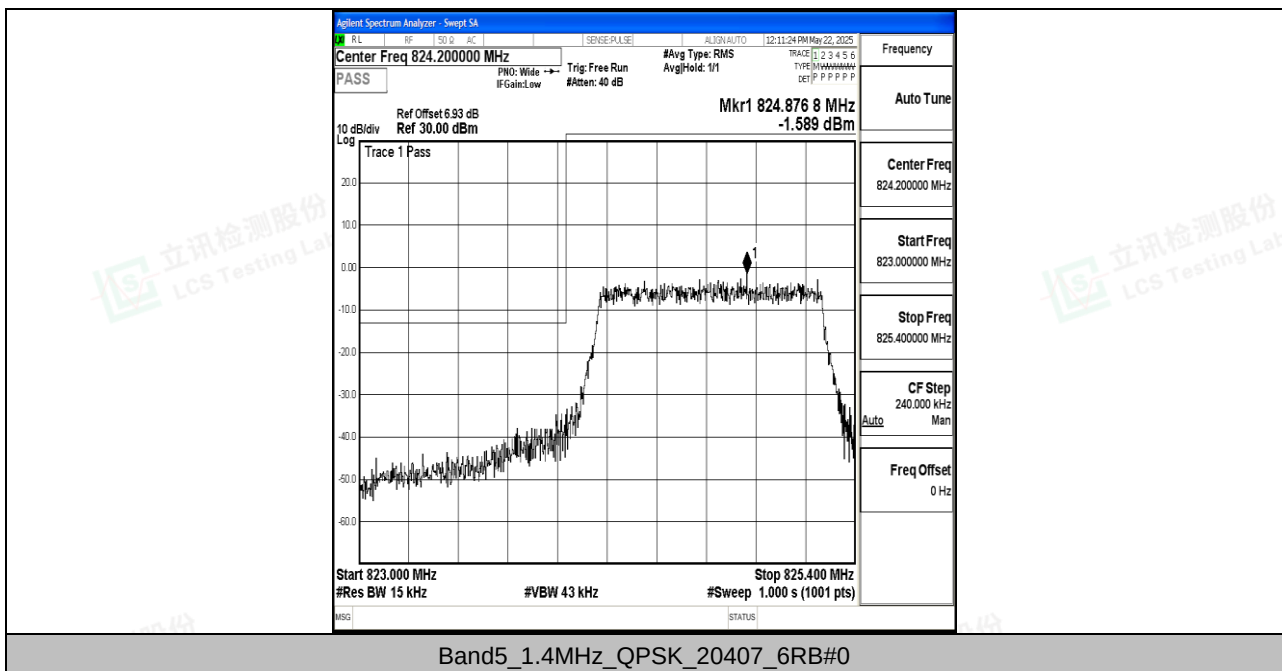


## D.4 Band Edge for LTE

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Peak Frequency | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|----------------|-------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 823.98         | -34.47      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 823.99         | -33.11      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 849.15         | -31.99      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 849.02         | -31.97      | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | 823.98         | -29.09      | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | 824.00         | -29.36      | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | 849.04         | -26.80      | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | 849.00         | -27.70      | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | 823.97         | -27.47      | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | 823.98         | -29.68      | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | 849.05         | -26.98      | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | 849.03         | -25.30      | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | 823.97         | -31.74      | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0           | 823.92         | -31.74      | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | 849.08         | -28.10      | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0           | 849.07         | -28.29      | PASS    |

### Test Graphs

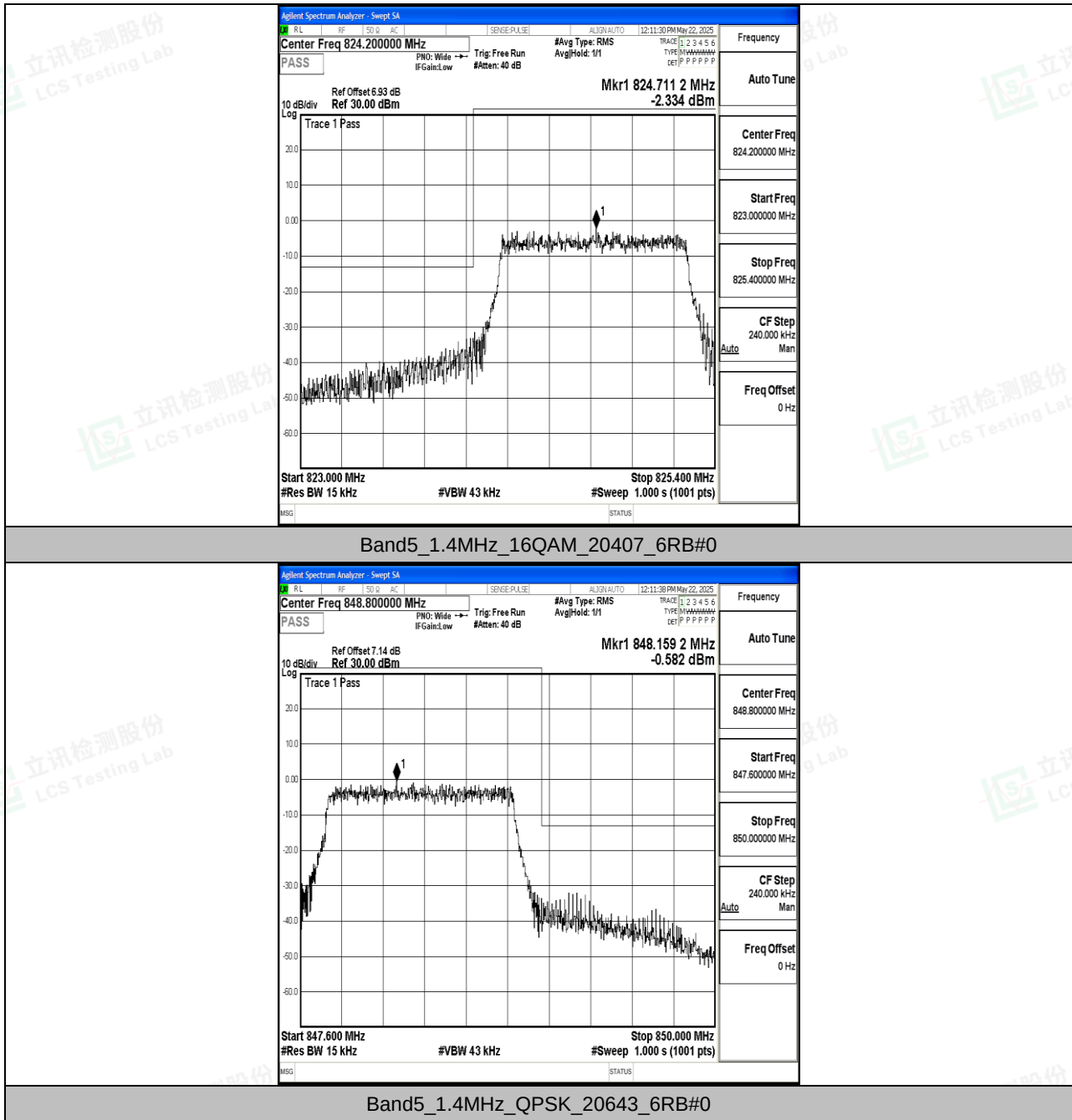


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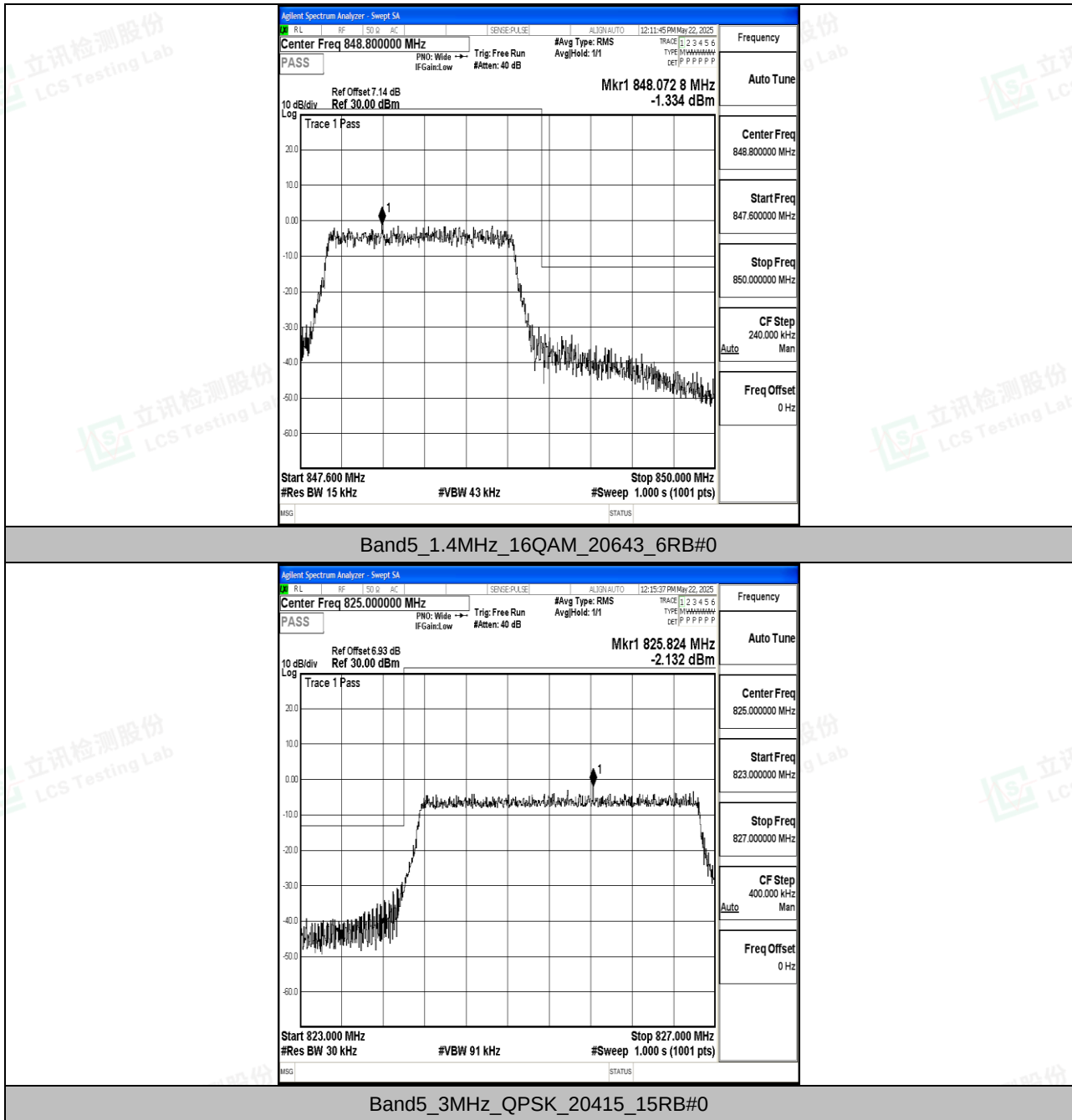


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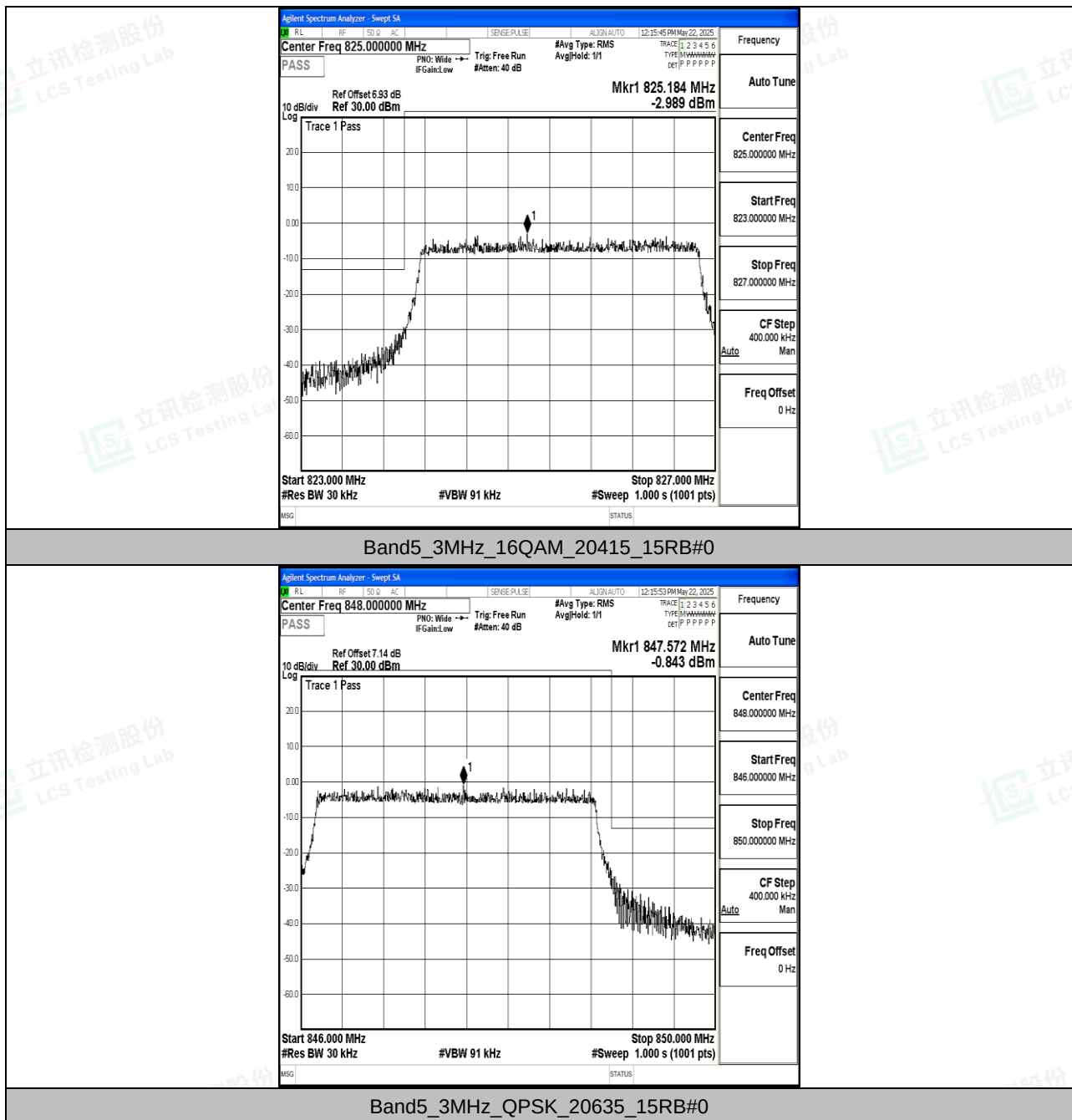


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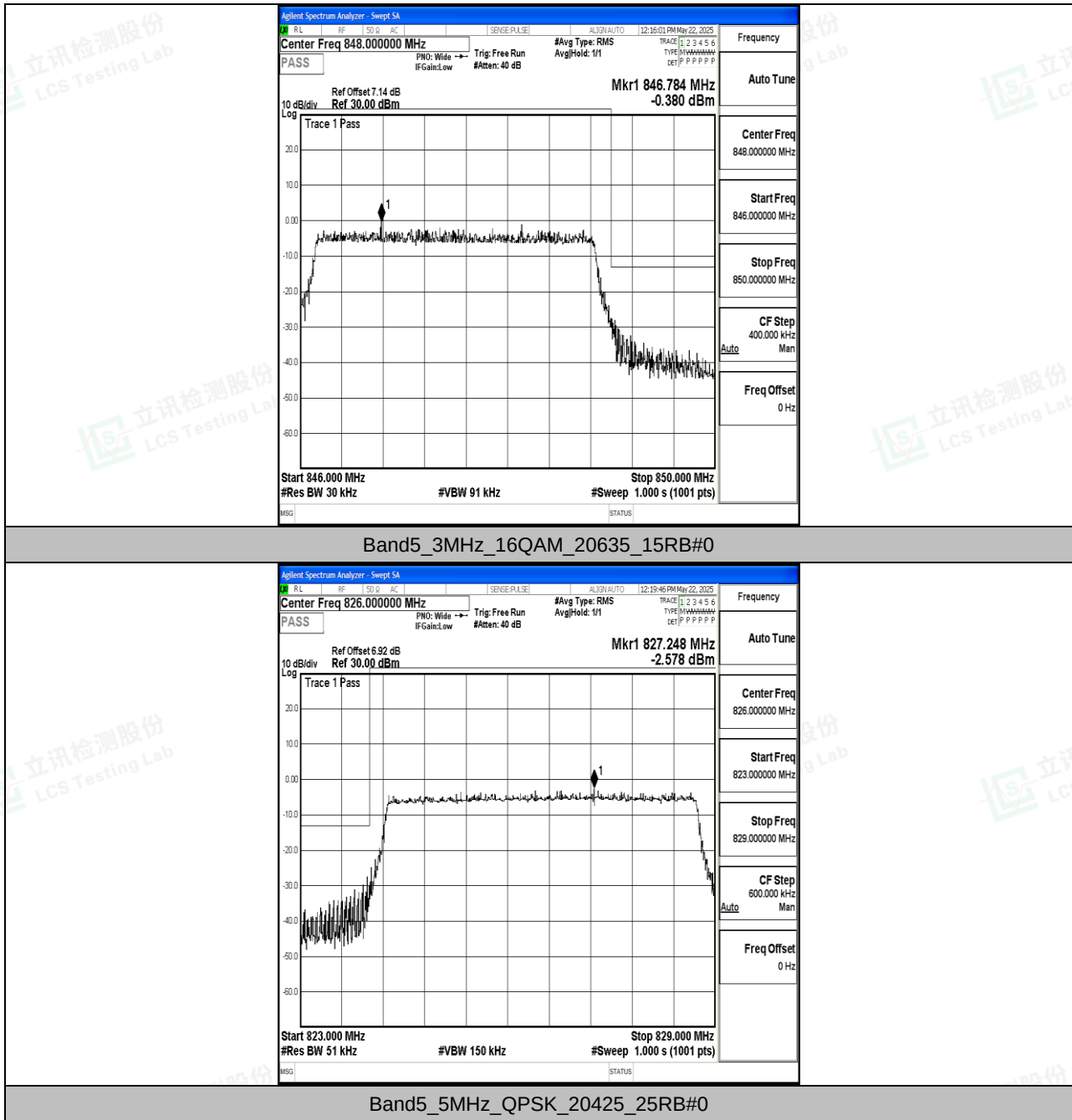
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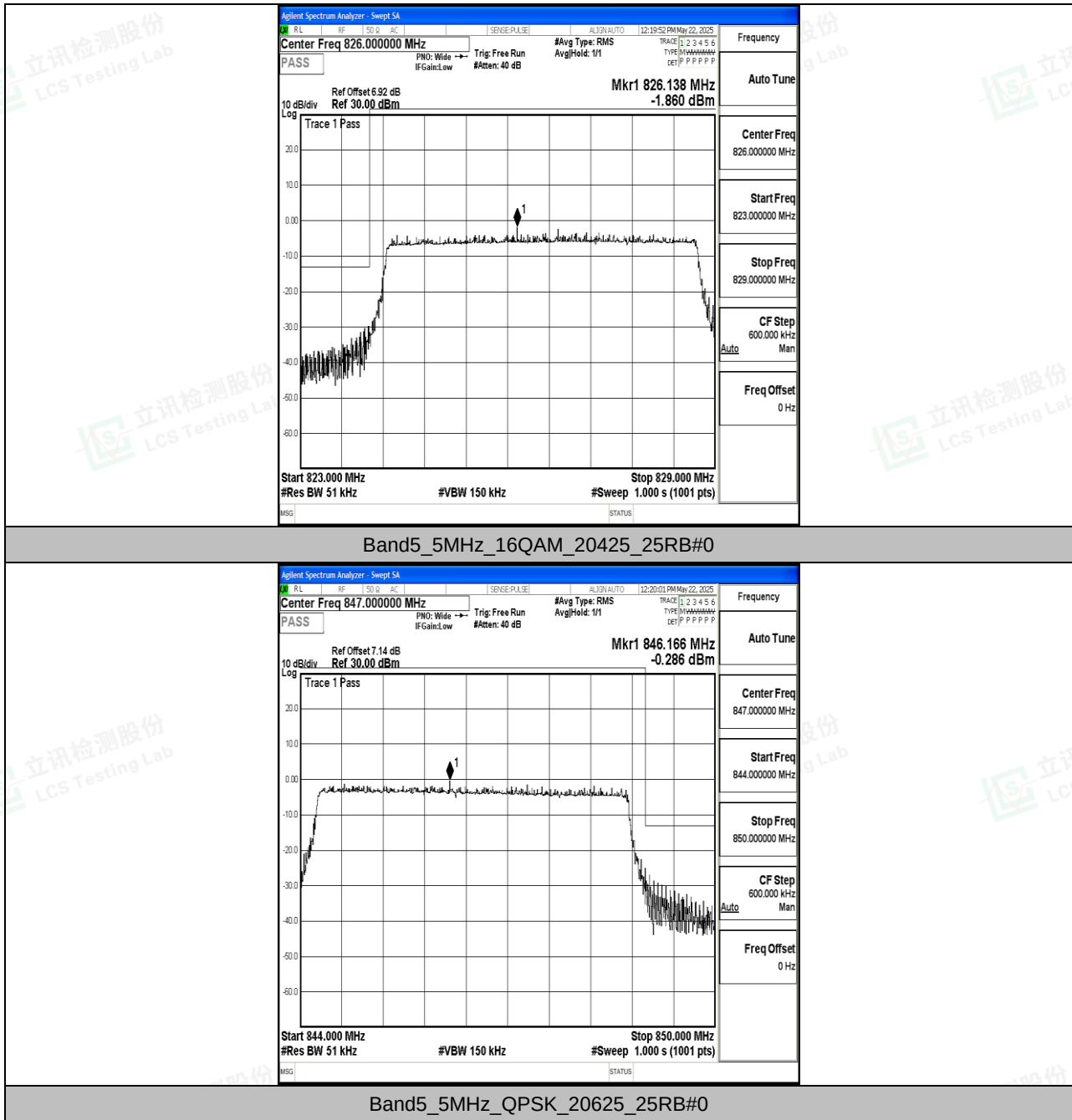


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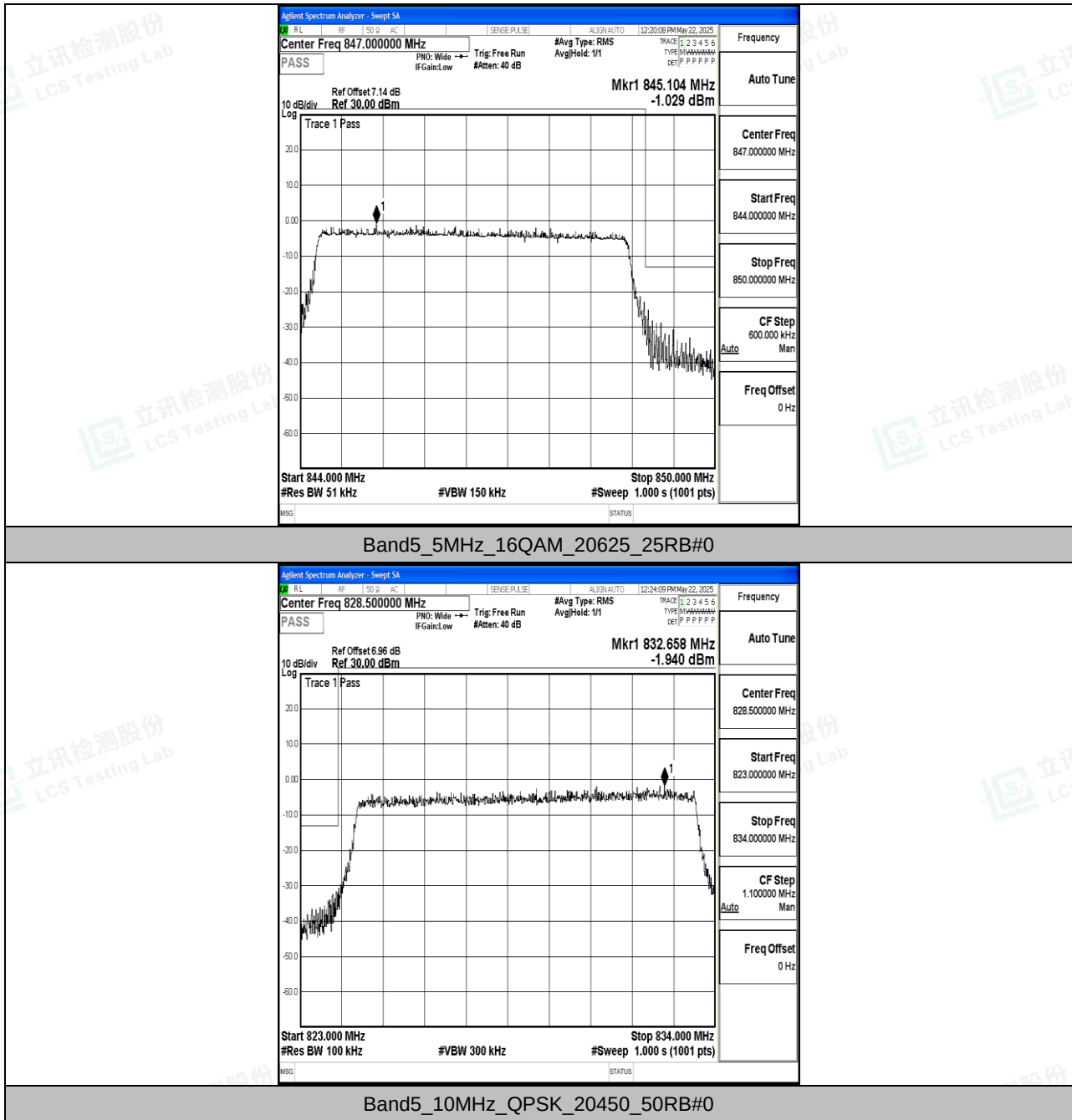


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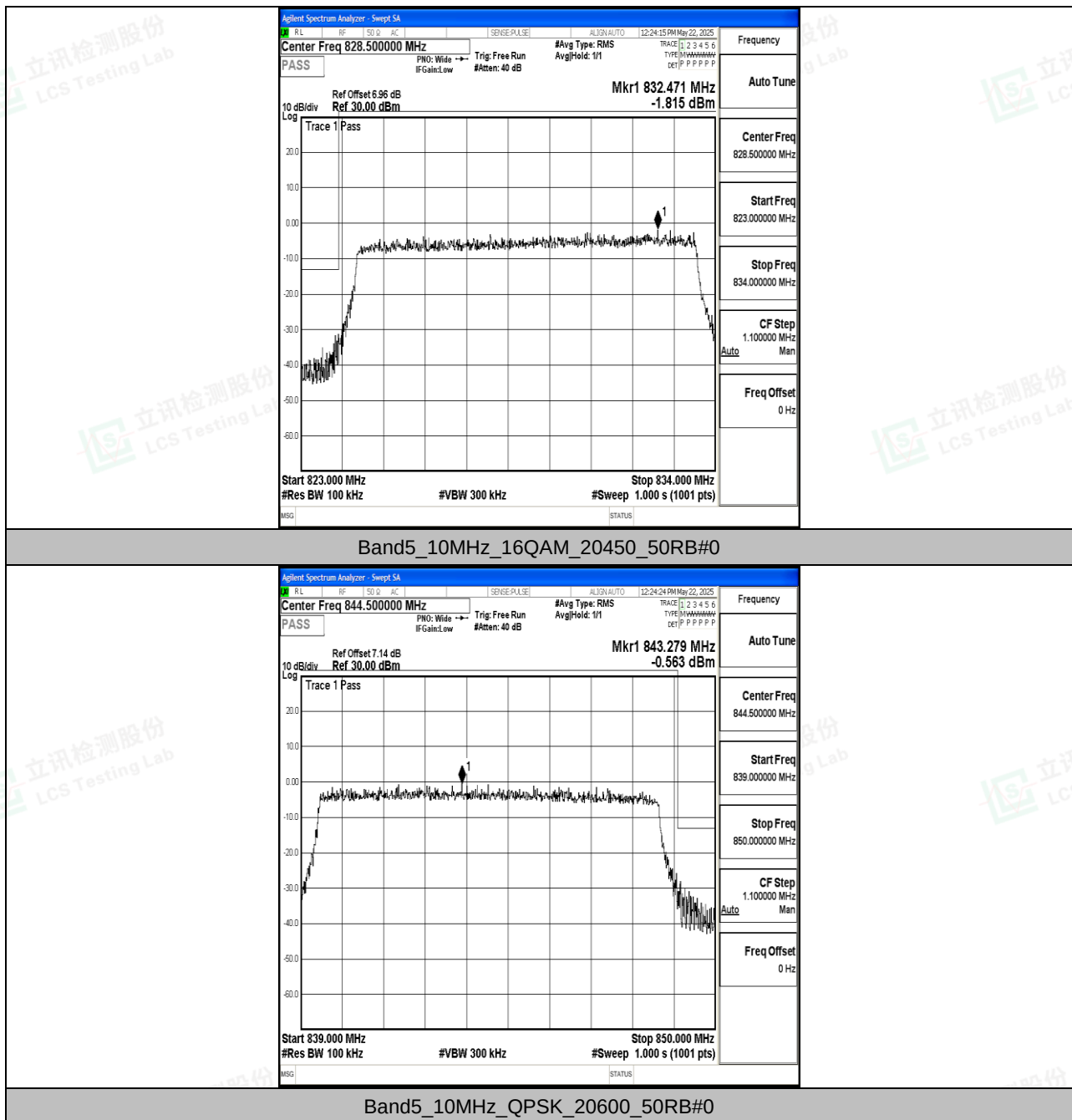


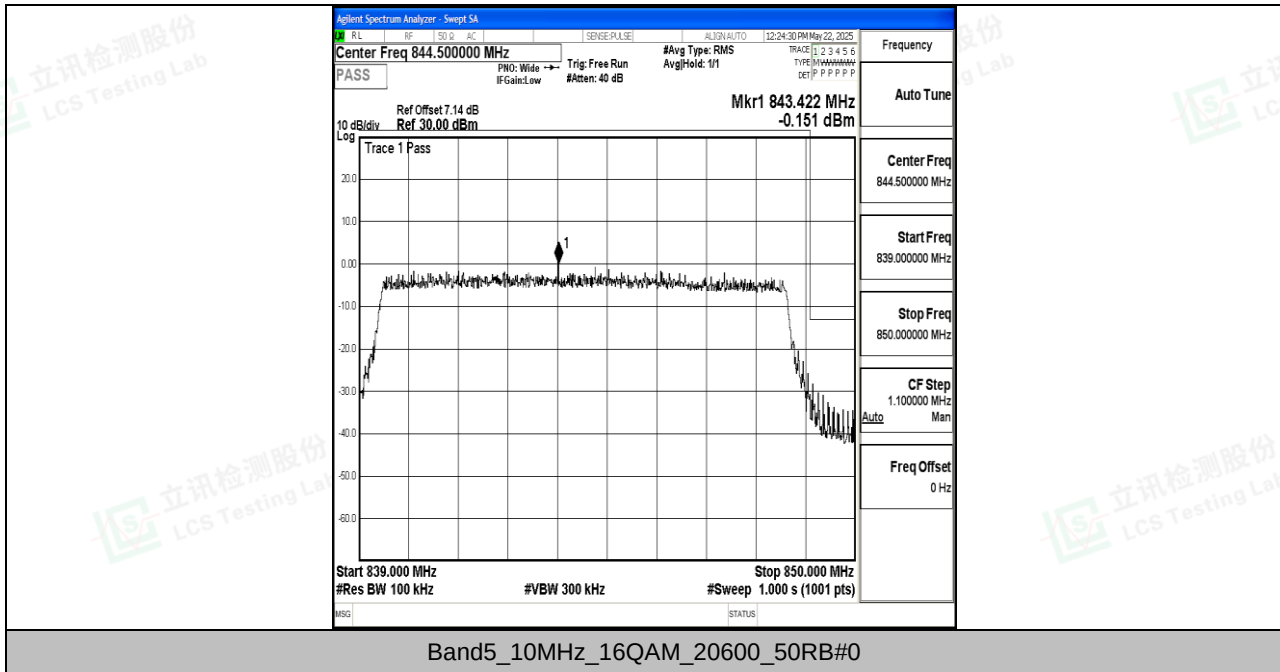
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## D.5 Conducted Spurious Emission for LTE

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-----------------|--------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 0.009~0.15      | -58.11       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 0.15~30         | -48.41       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 30~1000         | -41.52       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 1000~3000       | -38.88       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 3000~10000      | -35.46       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 0.009~0.15      | -58.18       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 0.15~30         | -45.86       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 30~1000         | -41.50       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 1000~3000       | -38.79       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 3000~10000      | -35.35       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 0.009~0.15      | -55.36       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 0.15~30         | -48.86       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 30~1000         | -43.51       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 1000~3000       | -39.28       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 3000~10000      | -35.00       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 0.009~0.15      | -56.96       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 0.15~30         | -45.05       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 30~1000         | -37.30       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 1000~3000       | -39.14       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 3000~10000      | -34.93       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 0.009~0.15      | -57.29       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 0.15~30         | -45.18       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 30~1000         | -37.90       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 1000~3000       | -38.88       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 3000~10000      | -34.77       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 0.009~0.15      | -56.92       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 0.15~30         | -45.10       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 30~1000         | -36.43       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 1000~3000       | -38.18       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 3000~10000      | -35.23       | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | 0.009~0.15      | -59.23       | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | 0.15~30         | -48.39       | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | 30~1000         | -46.46       | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | 1000~3000       | -38.48       | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | 3000~10000      | -34.87       | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 1RB#0            | 0.009~0.15      | -53.98       | PASS    |



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|       |      |       |       |       |            |        |      |
|-------|------|-------|-------|-------|------------|--------|------|
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 0.15~30    | -44.47 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 30~1000    | -43.65 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 1000~3000  | -37.80 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 3000~10000 | -35.02 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 1RB#0 | 0.009~0.15 | -57.59 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 1RB#0 | 0.15~30    | -43.94 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 1RB#0 | 30~1000    | -46.83 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 1RB#0 | 1000~3000  | -38.32 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 1RB#0 | 3000~10000 | -35.33 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 0.009~0.15 | -60.06 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 0.15~30    | -46.23 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 30~1000    | -44.23 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 1000~3000  | -38.66 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 3000~10000 | -34.55 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#0 | 0.009~0.15 | -57.15 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#0 | 0.15~30    | -46.71 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#0 | 30~1000    | -45.53 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#0 | 1000~3000  | -39.53 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 1RB#0 | 3000~10000 | -35.36 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 0.009~0.15 | -60.15 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 0.15~30    | -45.99 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 30~1000    | -43.36 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 1000~3000  | -39.02 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 3000~10000 | -35.40 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0 | 0.009~0.15 | -58.64 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0 | 0.15~30    | -47.34 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0 | 30~1000    | -52.78 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0 | 1000~3000  | -38.51 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0 | 3000~10000 | -35.36 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 0.009~0.15 | -56.47 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 0.15~30    | -46.73 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 30~1000    | -53.07 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 1000~3000  | -39.01 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 3000~10000 | -35.57 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0 | 0.009~0.15 | -55.36 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0 | 0.15~30    | -48.53 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0 | 30~1000    | -52.68 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0 | 1000~3000  | -38.81 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0 | 3000~10000 | -34.60 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 0.009~0.15 | -56.50 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 0.15~30    | -49.32 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 30~1000    | -52.89 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 1000~3000  | -38.80 | PASS |



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| Band5 | 5MHz  | 16QAM | 20525 | 1RB#0 | 3000~10000 | -34.64 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#0 | 0.009~0.15 | -57.56 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#0 | 0.15~30    | -42.85 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#0 | 30~1000    | -52.75 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#0 | 1000~3000  | -38.47 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 1RB#0 | 3000~10000 | -34.79 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0 | 0.009~0.15 | -56.95 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0 | 0.15~30    | -43.54 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0 | 30~1000    | -52.99 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0 | 1000~3000  | -39.38 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0 | 3000~10000 | -34.65 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0 | 0.009~0.15 | -55.72 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0 | 0.15~30    | -47.51 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0 | 30~1000    | -52.84 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0 | 1000~3000  | -38.92 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0 | 3000~10000 | -34.32 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 0.009~0.15 | -51.33 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 0.15~30    | -45.61 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 30~1000    | -53.06 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 1000~3000  | -38.91 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 3000~10000 | -35.23 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0 | 0.009~0.15 | -58.63 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0 | 0.15~30    | -45.06 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0 | 30~1000    | -52.43 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0 | 1000~3000  | -38.48 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0 | 3000~10000 | -34.99 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 0.009~0.15 | -58.57 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 0.15~30    | -49.22 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 30~1000    | -52.72 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 1000~3000  | -39.08 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 3000~10000 | -35.02 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0 | 0.009~0.15 | -56.68 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0 | 0.15~30    | -47.76 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0 | 30~1000    | -52.94 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0 | 1000~3000  | -38.96 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0 | 3000~10000 | -34.98 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 0.009~0.15 | -61.12 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 0.15~30    | -46.58 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 30~1000    | -52.58 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 1000~3000  | -38.98 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 3000~10000 | -34.53 | PASS |



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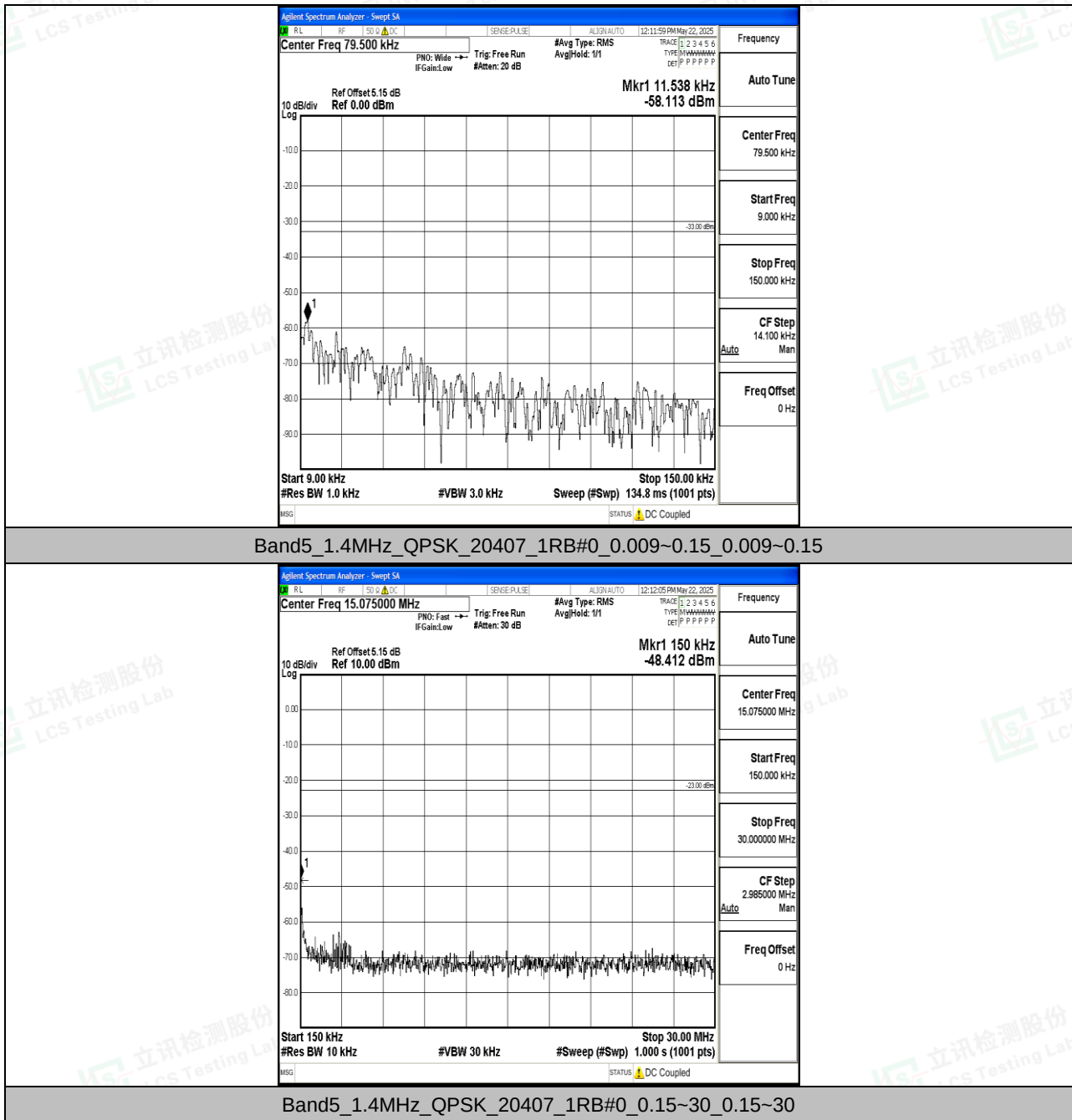
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## Test Graphs

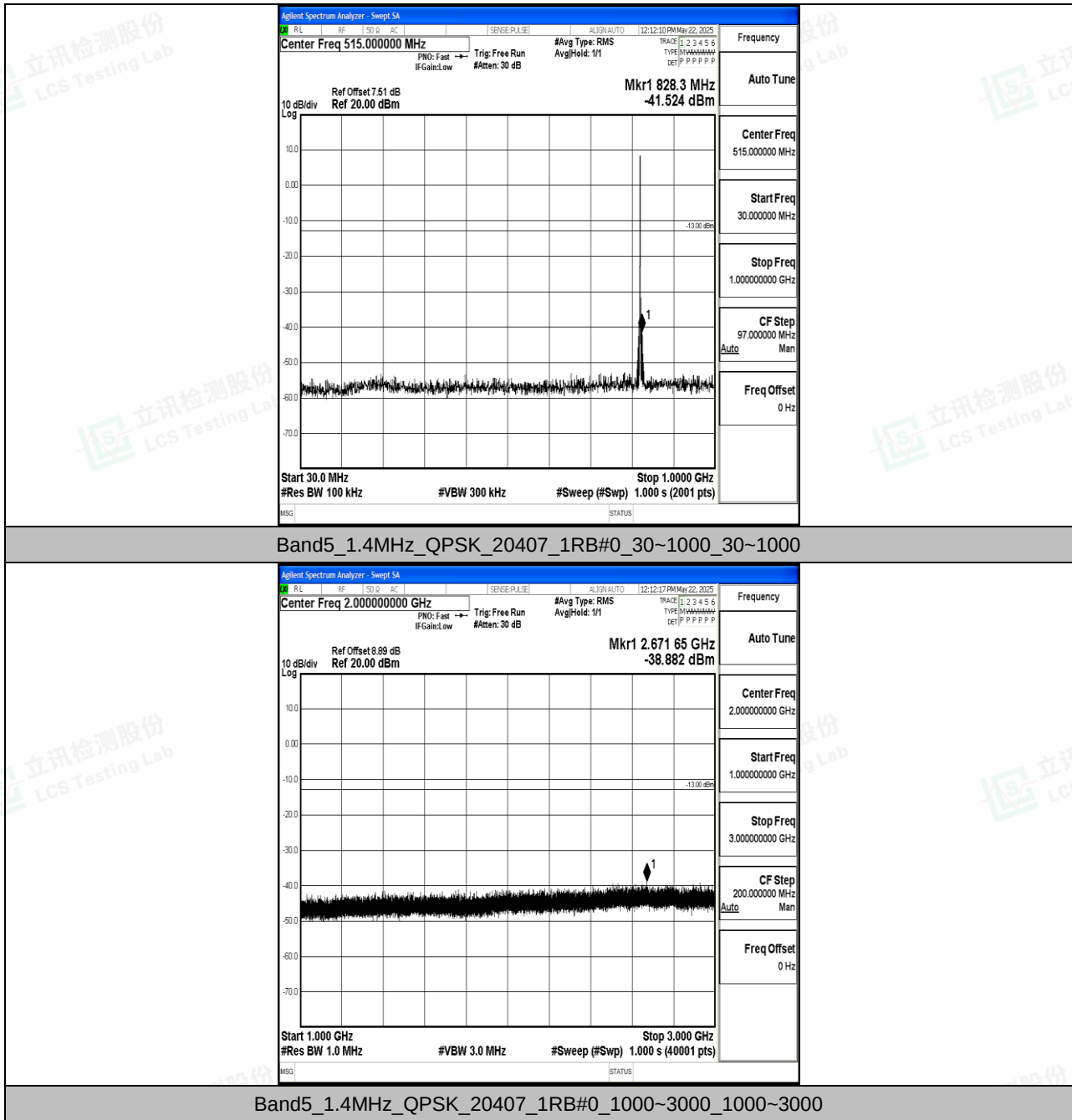


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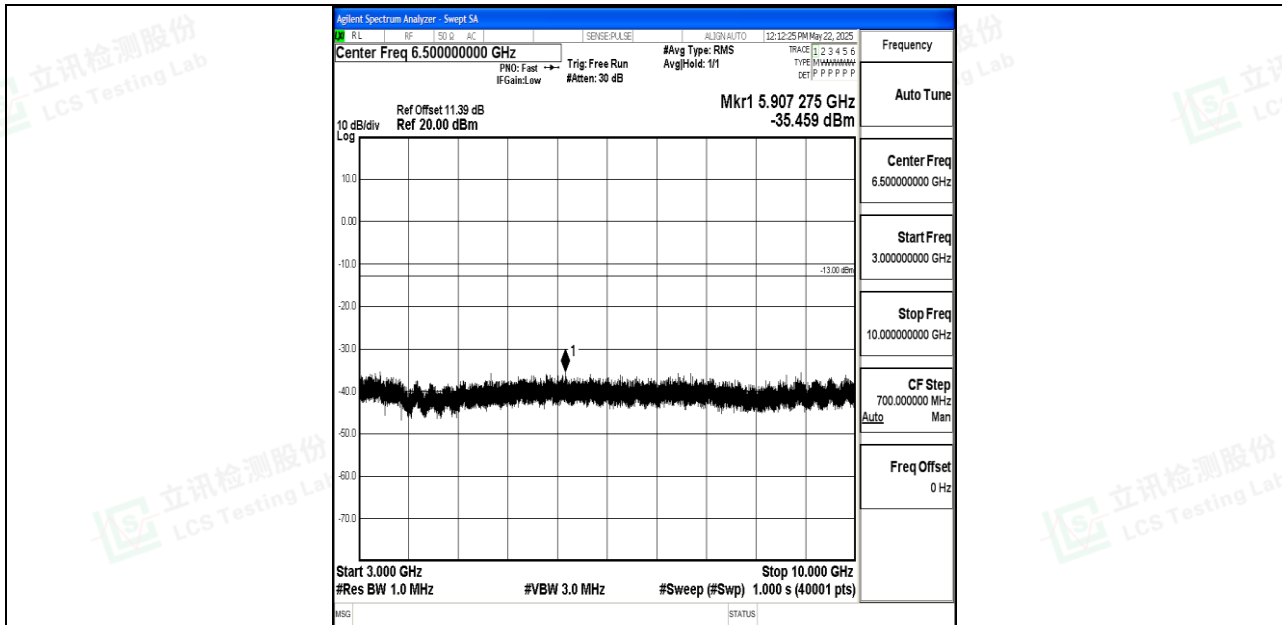


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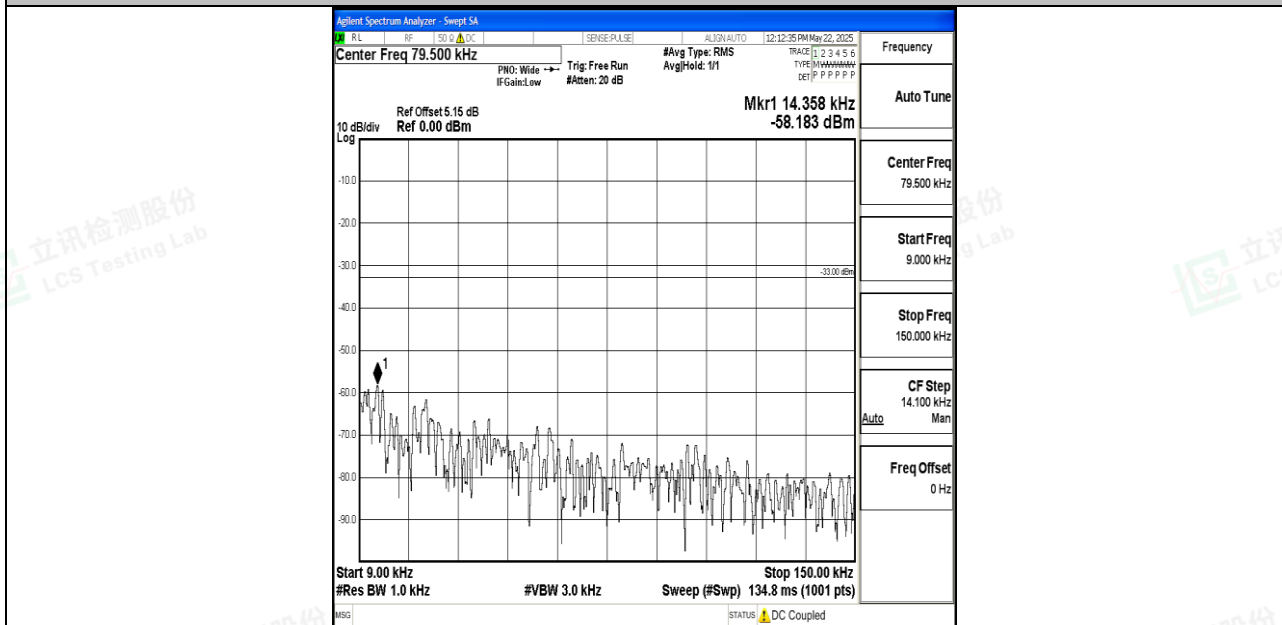
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Band5\_1.4MHz\_QPSK\_20407\_1RB#0\_3000~10000\_3000~10000



Band5\_1.4MHz\_16QAM\_20407\_1RB#0\_0.009~0.15\_0.009~0.15

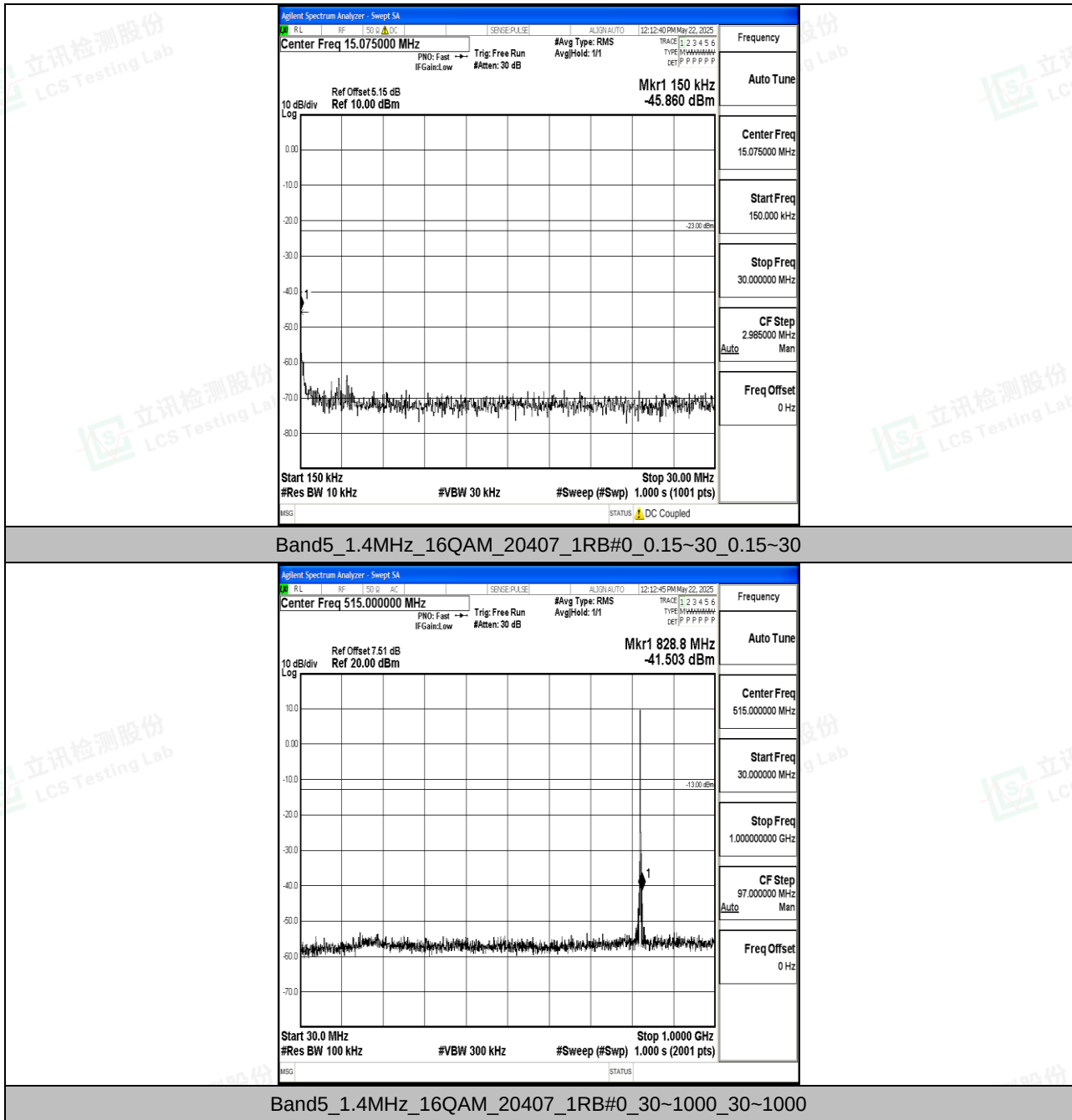


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