



## Appendix I: Test Data for E-UTRA Band 12

Product Name: Smart Phone

Test Model: HPPH88C

### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 24.2°C     |
| Relative Humidity: | 52.6%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Paddi Chen |
| Supervised by:     | Nick Peng  |



Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
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## I.1 Conducted Output Power Data

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 23.84       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 22.73       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#2            | 23.87       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#2            | 22.27       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#5            | 23.66       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#5            | 22.42       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 3RB#0            | 23.61       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 3RB#0            | 22.49       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 3RB#1            | 23.59       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 3RB#1            | 22.47       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 3RB#3            | 23.54       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 3RB#3            | 22.65       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 22.62       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 22.08       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 23.38       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 22.79       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#2            | 23.55       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#2            | 22.76       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#5            | 23.62       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#5            | 22.85       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 3RB#0            | 23.59       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 3RB#0            | 22.47       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 3RB#1            | 23.58       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 3RB#1            | 22.63       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 3RB#3            | 23.64       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 3RB#3            | 22.55       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 22.72       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 21.74       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 23.14       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#0            | 22.97       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#2            | 23.40       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#2            | 23.00       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#5            | 23.50       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#5            | 23.23       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 3RB#0            | 23.52       | PASS    |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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|        |        |       |       |        |       |      |
|--------|--------|-------|-------|--------|-------|------|
| Band12 | 1.4MHz | 16QAM | 23173 | 3RB#0  | 22.50 | PASS |
| Band12 | 1.4MHz | QPSK  | 23173 | 3RB#1  | 23.52 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 3RB#1  | 22.50 | PASS |
| Band12 | 1.4MHz | QPSK  | 23173 | 3RB#3  | 23.47 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 3RB#3  | 22.41 | PASS |
| Band12 | 1.4MHz | QPSK  | 23173 | 6RB#0  | 22.71 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6RB#0  | 21.89 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 1RB#0  | 23.46 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 1RB#0  | 22.31 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 1RB#8  | 23.40 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 1RB#8  | 22.50 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 1RB#14 | 23.38 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 1RB#14 | 22.48 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 8RB#0  | 22.67 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 8RB#0  | 21.95 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 8RB#4  | 22.68 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 8RB#4  | 21.86 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 8RB#7  | 22.59 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 8RB#7  | 21.88 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 15RB#0 | 22.62 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 15RB#0 | 21.75 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 1RB#0  | 23.55 | PASS |
| Band12 | 3MHz   | 16QAM | 23095 | 1RB#0  | 22.18 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 1RB#8  | 23.41 | PASS |
| Band12 | 3MHz   | 16QAM | 23095 | 1RB#8  | 22.22 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 1RB#14 | 23.19 | PASS |
| Band12 | 3MHz   | 16QAM | 23095 | 1RB#14 | 22.30 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 8RB#0  | 22.40 | PASS |
| Band12 | 3MHz   | 16QAM | 23095 | 8RB#0  | 21.79 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 8RB#4  | 22.41 | PASS |
| Band12 | 3MHz   | 16QAM | 23095 | 8RB#4  | 21.79 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 8RB#7  | 22.50 | PASS |
| Band12 | 3MHz   | 16QAM | 23095 | 8RB#7  | 21.88 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 15RB#0 | 22.46 | PASS |
| Band12 | 3MHz   | 16QAM | 23095 | 15RB#0 | 21.53 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 1RB#0  | 23.60 | PASS |
| Band12 | 3MHz   | 16QAM | 23165 | 1RB#0  | 23.00 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 1RB#8  | 23.46 | PASS |
| Band12 | 3MHz   | 16QAM | 23165 | 1RB#8  | 22.85 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 1RB#14 | 23.42 | PASS |



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|        |      |       |       |         |       |      |
|--------|------|-------|-------|---------|-------|------|
| Band12 | 3MHz | 16QAM | 23165 | 1RB#14  | 22.81 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 8RB#0   | 22.47 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 8RB#0   | 21.88 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 8RB#4   | 22.48 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 8RB#4   | 21.86 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 8RB#7   | 22.49 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 8RB#7   | 21.74 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 15RB#0  | 22.54 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 15RB#0  | 21.66 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#0   | 23.54 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0   | 22.06 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#12  | 23.62 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#12  | 22.17 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#24  | 23.53 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#24  | 21.97 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 12RB#0  | 22.55 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 12RB#0  | 21.74 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 12RB#6  | 22.71 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 12RB#6  | 21.78 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 12RB#13 | 22.55 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 12RB#13 | 21.76 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 25RB#0  | 22.54 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 25RB#0  | 21.84 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#0   | 23.31 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#0   | 22.89 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#12  | 23.31 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#12  | 22.83 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#24  | 23.38 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#24  | 22.83 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 12RB#0  | 22.63 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 12RB#0  | 21.82 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 12RB#6  | 22.48 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 12RB#6  | 21.92 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 12RB#13 | 22.56 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 12RB#13 | 21.79 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 25RB#0  | 22.56 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 25RB#0  | 21.80 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 1RB#0   | 23.44 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#0   | 22.37 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 1RB#12  | 23.35 | PASS |



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|--------|-------|-------|-------|---------|-------|------|
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#12  | 22.35 | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 1RB#24  | 23.34 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#24  | 22.31 | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 12RB#0  | 22.59 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 12RB#0  | 21.56 | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 12RB#6  | 22.59 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 12RB#6  | 21.64 | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 12RB#13 | 22.59 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 12RB#13 | 21.81 | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 25RB#0  | 22.61 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 25RB#0  | 21.82 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#0   | 23.35 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0   | 22.30 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#24  | 23.24 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#24  | 22.39 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#49  | 23.30 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#49  | 22.30 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 25RB#0  | 22.49 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 25RB#0  | 21.67 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 25RB#12 | 22.49 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 25RB#12 | 21.67 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 25RB#25 | 22.60 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 25RB#25 | 21.61 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 50RB#0  | 22.56 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0  | 21.75 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#0   | 23.68 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0   | 22.55 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#24  | 23.63 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#24  | 22.58 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#49  | 23.52 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#49  | 21.97 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 25RB#0  | 22.52 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 25RB#0  | 21.79 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 25RB#12 | 22.52 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 25RB#12 | 21.79 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 25RB#25 | 22.44 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 25RB#25 | 21.81 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0  | 22.54 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0  | 21.74 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#0   | 23.35 | PASS |



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|--------|-------|-------|-------|---------|-------|------|
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0   | 23.23 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#24  | 23.37 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#24  | 23.26 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#49  | 23.24 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#49  | 23.24 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 25RB#0  | 22.61 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 25RB#0  | 21.67 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 25RB#12 | 22.59 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 25RB#12 | 21.67 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 25RB#25 | 22.56 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 25RB#25 | 21.79 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0  | 22.36 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0  | 21.64 | PASS |





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

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 4.83       | 13        | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 5.37       | 13        | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 5.50       | 13        | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 6.25       | 13        | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 4.79       | 13        | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 5.38       | 13        | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 5.50       | 13        | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 6.22       | 13        | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 4.26       | 13        | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#0            | 4.80       | 13        | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 4.98       | 13        | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 5.70       | 13        | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 1RB#0            | 4.95       | 13        | PASS    |
| Band12 | 3MHz      | 16QAM      | 23025   | 1RB#0            | 5.75       | 13        | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 15RB#0           | 5.52       | 13        | PASS    |
| Band12 | 3MHz      | 16QAM      | 23025   | 15RB#0           | 6.30       | 13        | PASS    |
| Band12 | 3MHz      | QPSK       | 23095   | 1RB#0            | 4.92       | 13        | PASS    |
| Band12 | 3MHz      | 16QAM      | 23095   | 1RB#0            | 5.76       | 13        | PASS    |
| Band12 | 3MHz      | QPSK       | 23095   | 15RB#0           | 5.53       | 13        | PASS    |
| Band12 | 3MHz      | 16QAM      | 23095   | 15RB#0           | 6.31       | 13        | PASS    |
| Band12 | 3MHz      | QPSK       | 23165   | 1RB#0            | 4.59       | 13        | PASS    |
| Band12 | 3MHz      | 16QAM      | 23165   | 1RB#0            | 5.40       | 13        | PASS    |
| Band12 | 3MHz      | QPSK       | 23165   | 15RB#0           | 5.17       | 13        | PASS    |
| Band12 | 3MHz      | 16QAM      | 23165   | 15RB#0           | 5.90       | 13        | PASS    |
| Band12 | 5MHz      | QPSK       | 23035   | 1RB#0            | 4.99       | 13        | PASS    |
| Band12 | 5MHz      | 16QAM      | 23035   | 1RB#0            | 5.81       | 13        | PASS    |
| Band12 | 5MHz      | QPSK       | 23035   | 25RB#0           | 5.65       | 13        | PASS    |
| Band12 | 5MHz      | 16QAM      | 23035   | 25RB#0           | 6.29       | 13        | PASS    |
| Band12 | 5MHz      | QPSK       | 23095   | 1RB#0            | 4.99       | 13        | PASS    |
| Band12 | 5MHz      | 16QAM      | 23095   | 1RB#0            | 5.82       | 13        | PASS    |
| Band12 | 5MHz      | QPSK       | 23095   | 25RB#0           | 5.60       | 13        | PASS    |
| Band12 | 5MHz      | 16QAM      | 23095   | 25RB#0           | 6.27       | 13        | PASS    |
| Band12 | 5MHz      | QPSK       | 23155   | 1RB#0            | 4.90       | 13        | PASS    |
| Band12 | 5MHz      | 16QAM      | 23155   | 1RB#0            | 5.72       | 13        | PASS    |



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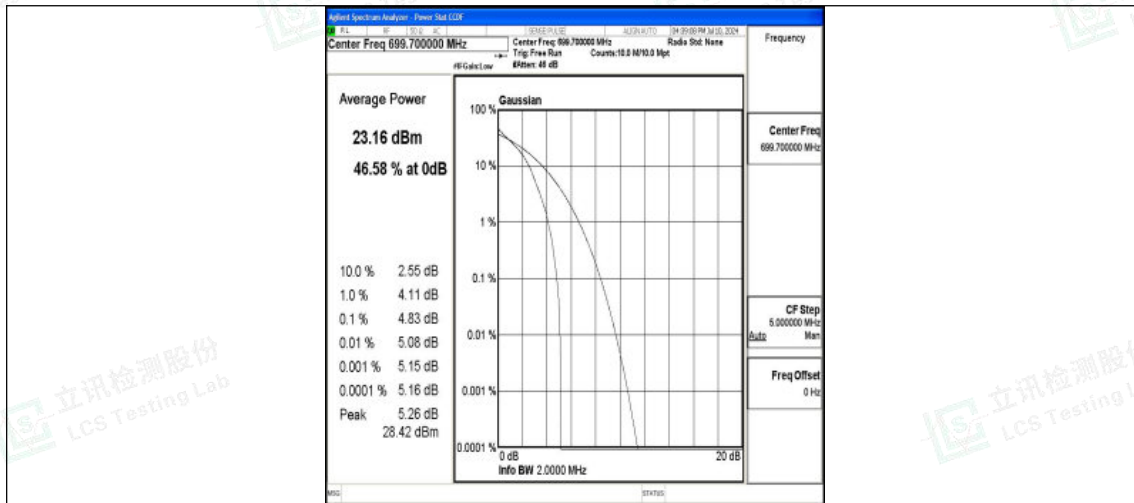


|        |       |       |       |        |      |    |      |
|--------|-------|-------|-------|--------|------|----|------|
| Band12 | 5MHz  | QPSK  | 23155 | 25RB#0 | 5.40 | 13 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 25RB#0 | 6.07 | 13 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#0  | 4.92 | 13 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0  | 5.63 | 13 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 50RB#0 | 5.62 | 13 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | 6.33 | 13 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#0  | 4.97 | 13 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0  | 5.87 | 13 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0 | 5.63 | 13 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | 6.31 | 13 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#0  | 4.92 | 13 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0  | 5.79 | 13 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0 | 5.53 | 13 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | 6.23 | 13 | PASS |

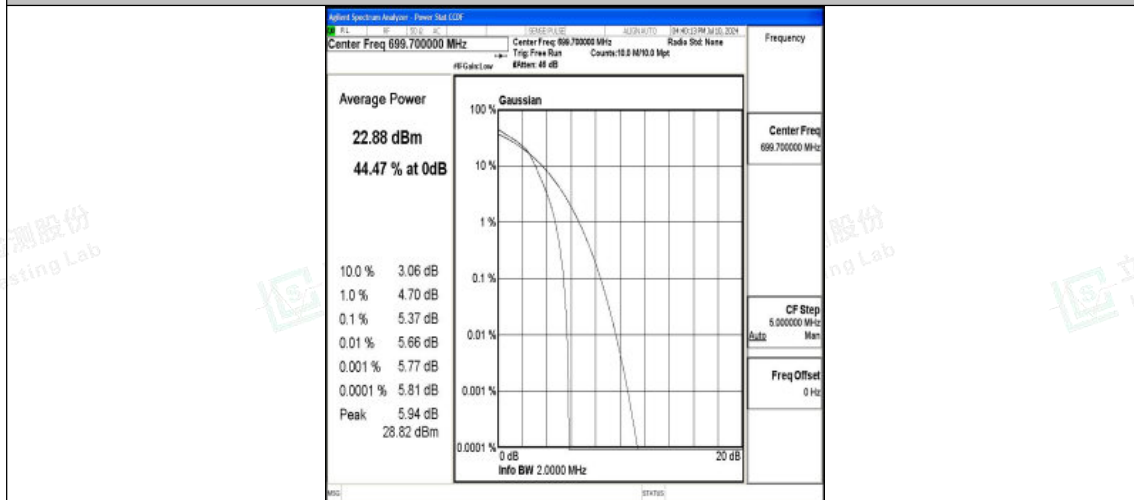




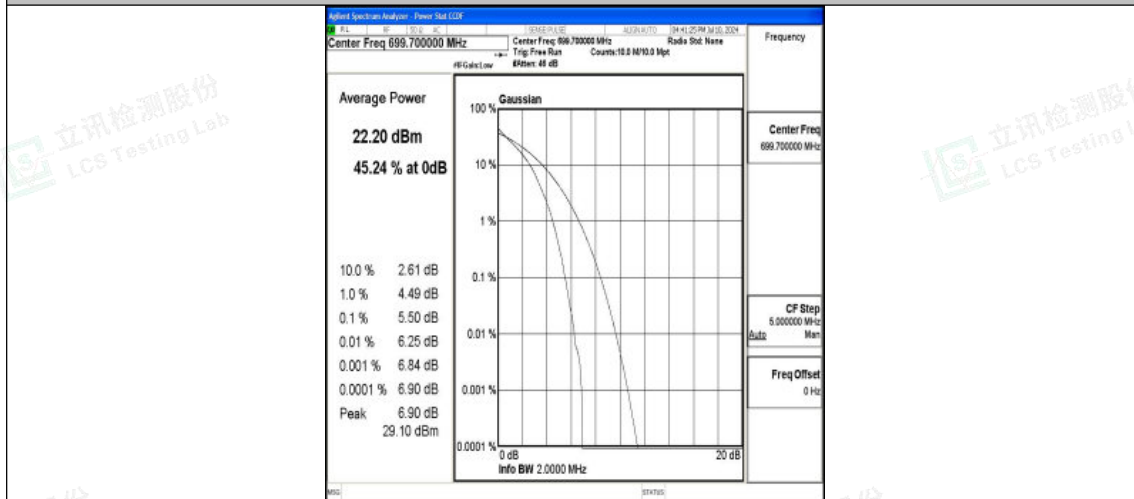
## Test Graphs



Band12-1.4MHz-QPSK-23017-1RB#0-PASS



Band12-1.4MHz-16QAM-23017-1RB#0-PASS



Band12-1.4MHz-QPSK-23017-6RB#0-PASS

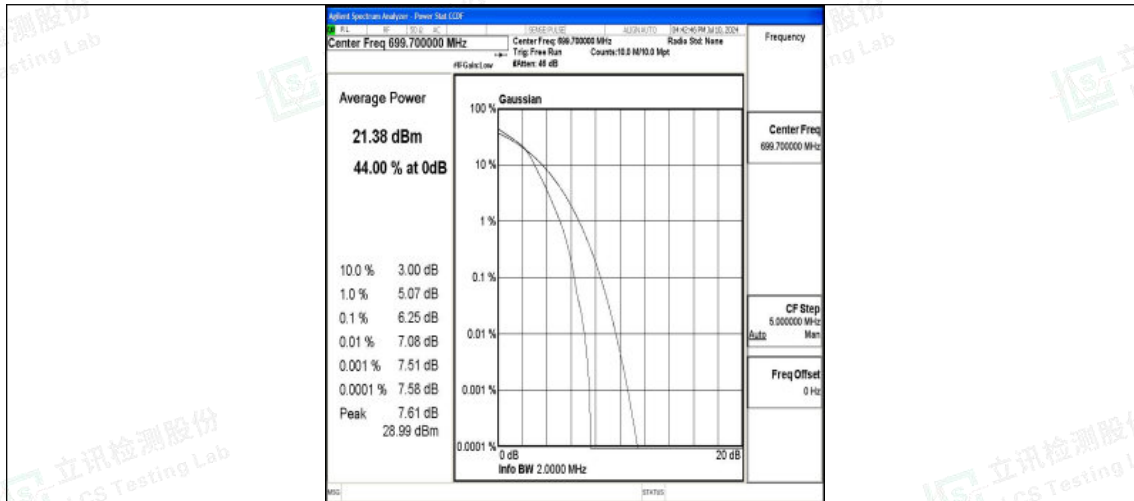


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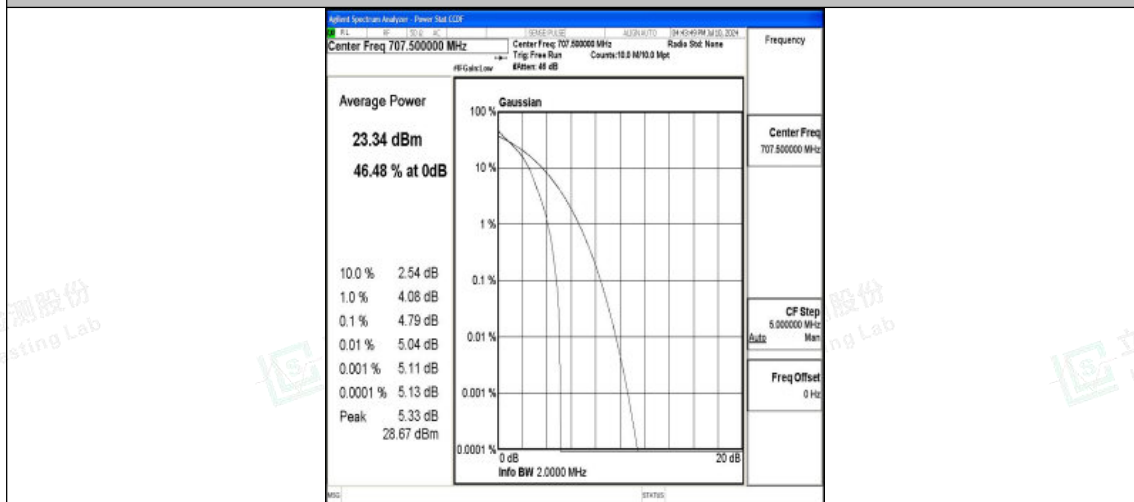
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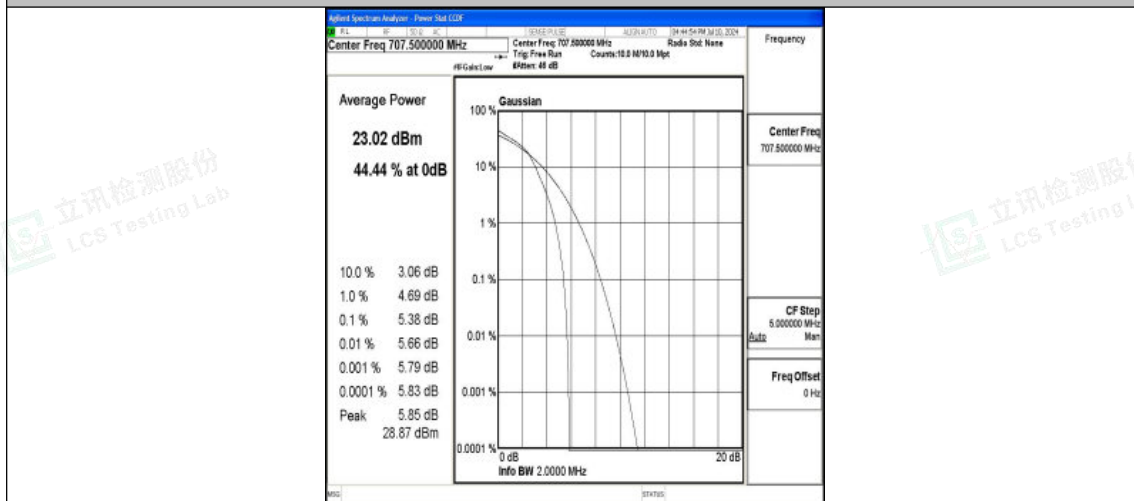
Scan code to check authenticity



Band12-1.4MHz-16QAM-23017-6RB#0-PASS



Band12-1.4MHz-QPSK-23095-1RB#0-PASS



Band12-1.4MHz-16QAM-23095-1RB#0-PASS

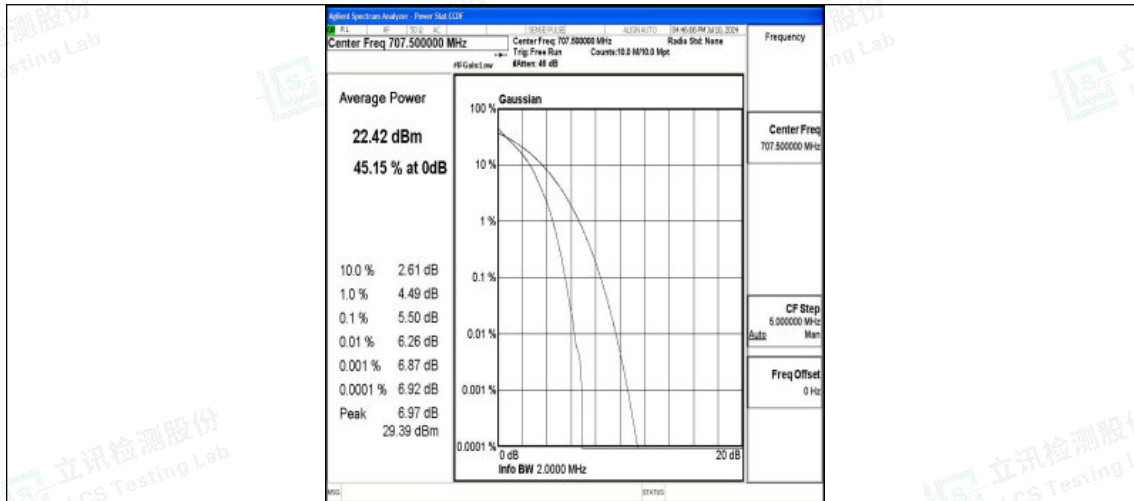


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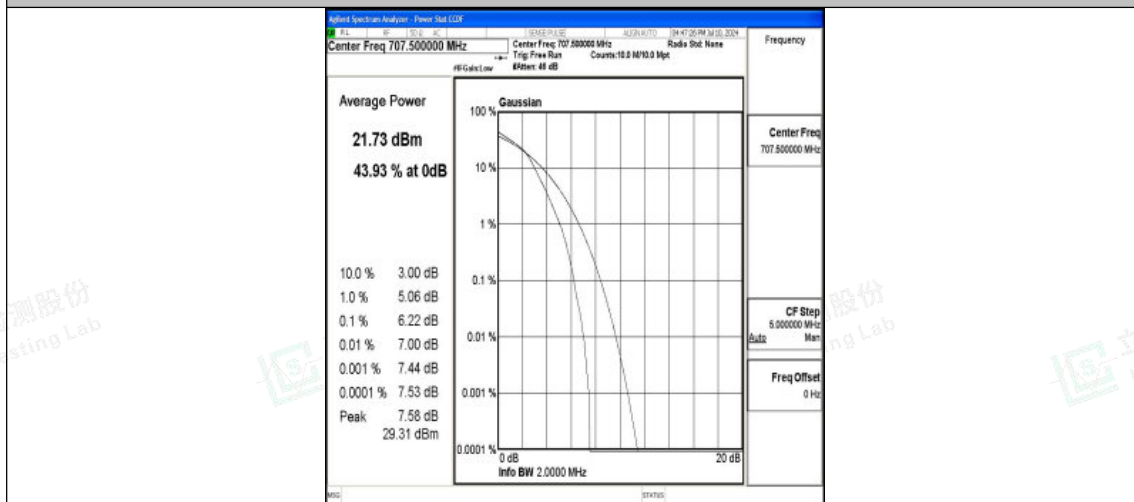
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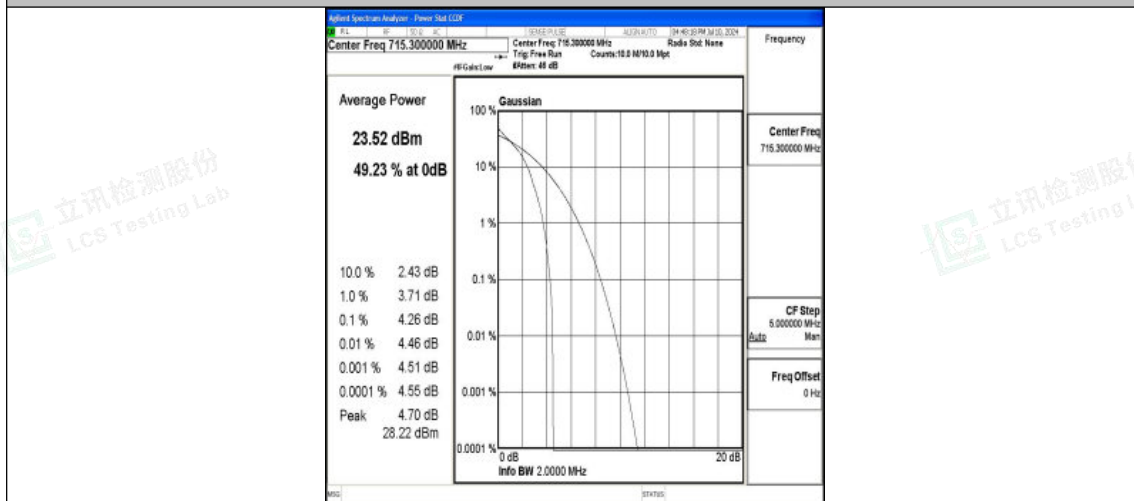
Scan code to check authenticity



Band12-1.4MHz-QPSK-23095-6RB#0-PASS



Band12-1.4MHz-16QAM-23095-6RB#0-PASS



Band12-1.4MHz-QPSK-23173-1RB#0-PASS

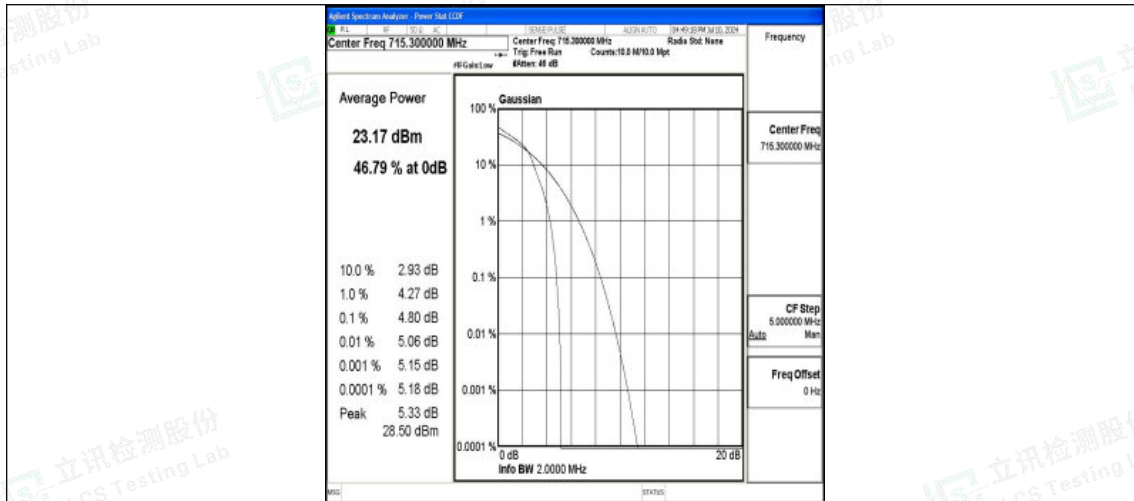


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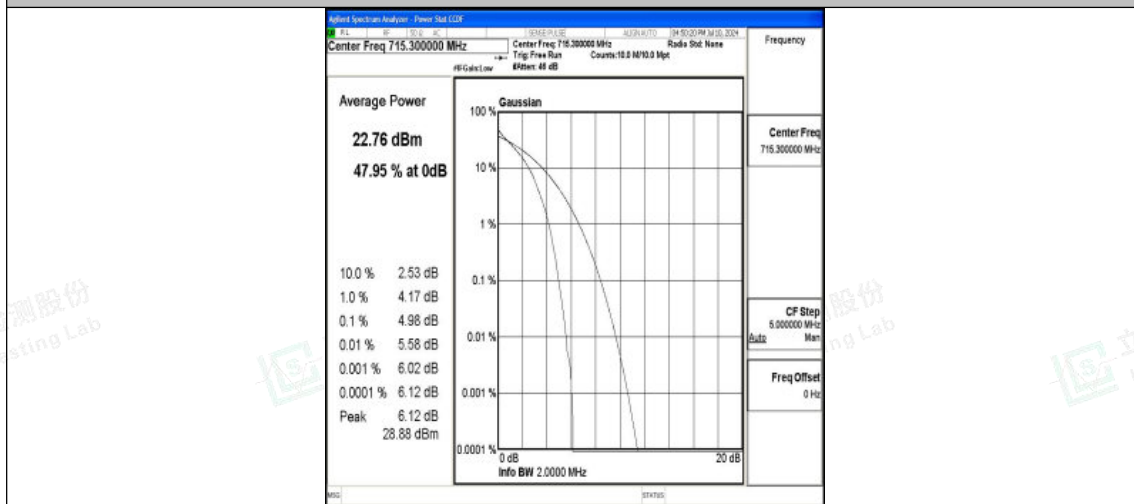
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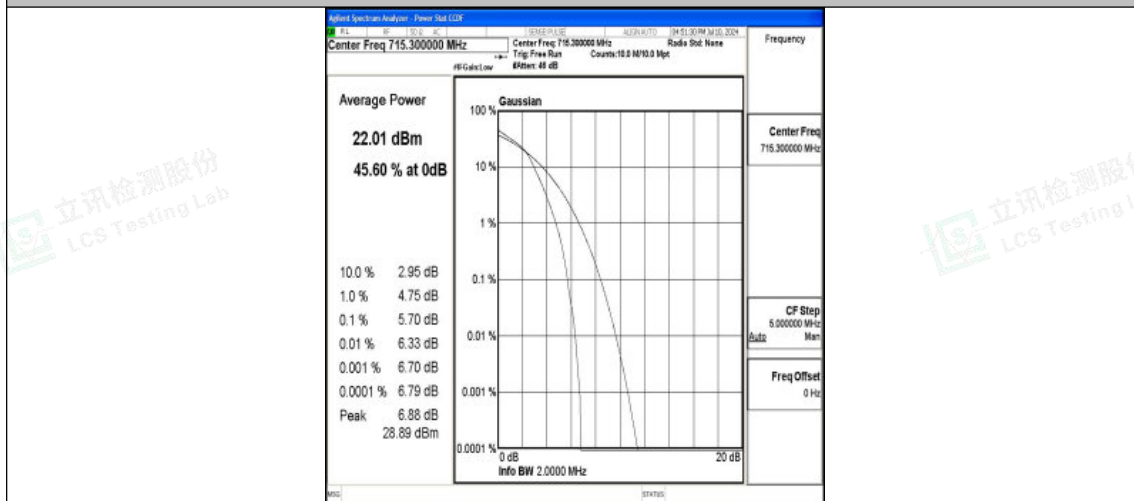
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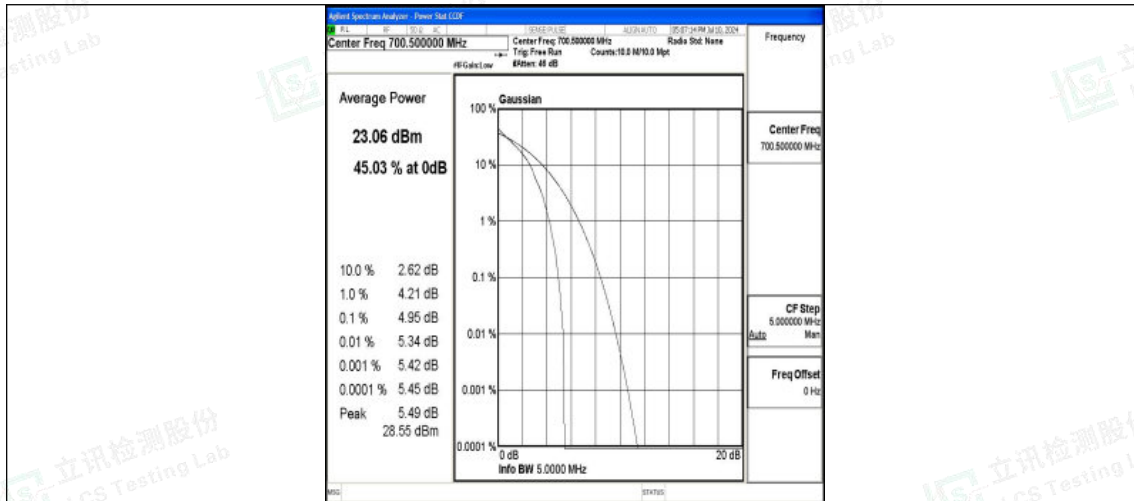


Shenzhen LCS Compliance Testing Laboratory Ltd.

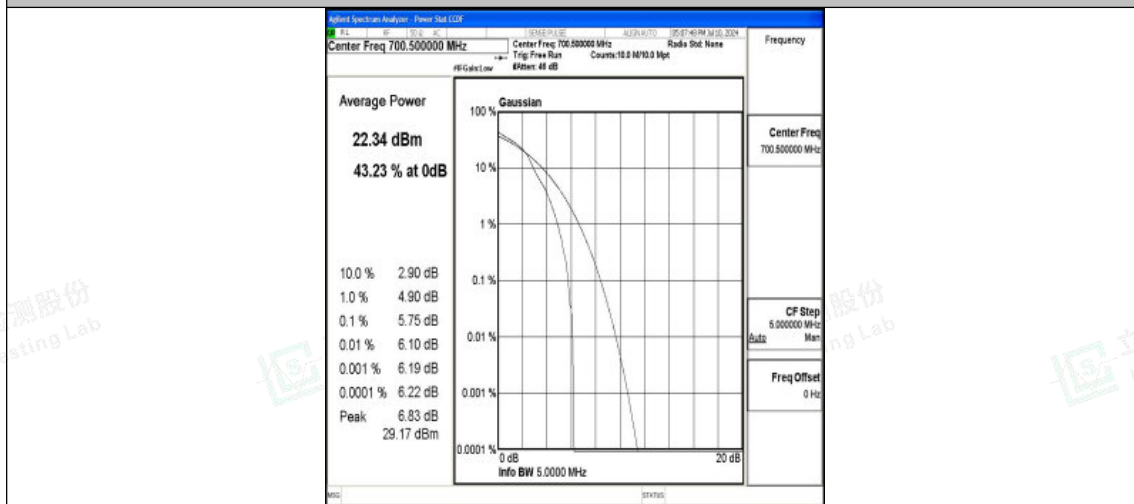
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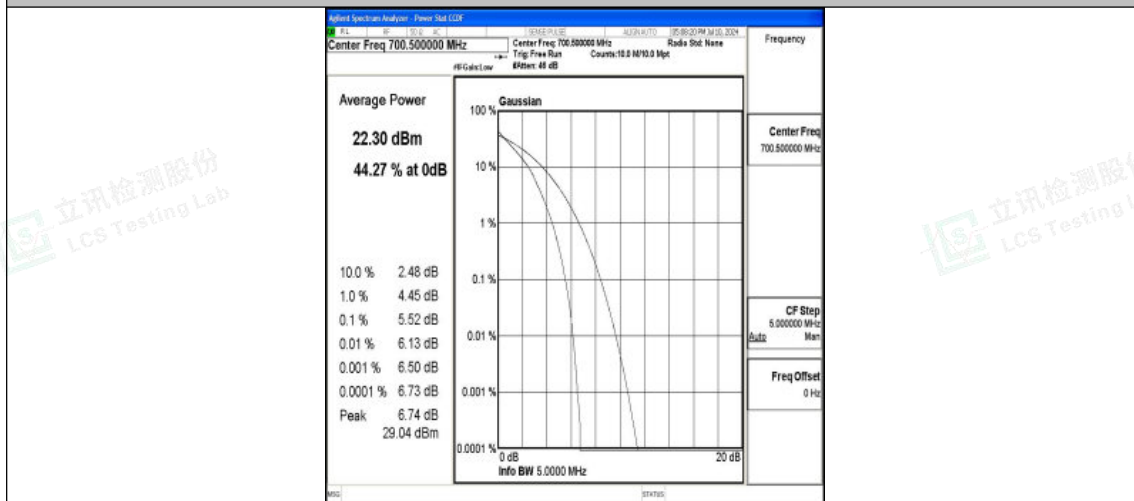
Scan code to check authenticity



Band12-3MHz-QPSK-23025-1RB#0-PASS



Band12-3MHz-16QAM-23025-1RB#0-PASS



Band12-3MHz-QPSK-23025-15RB#0-PASS

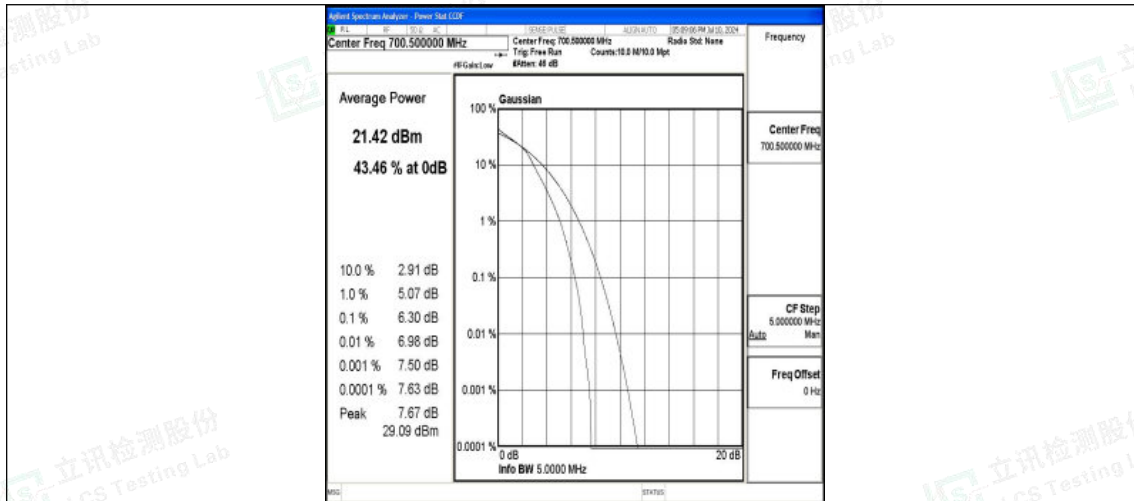


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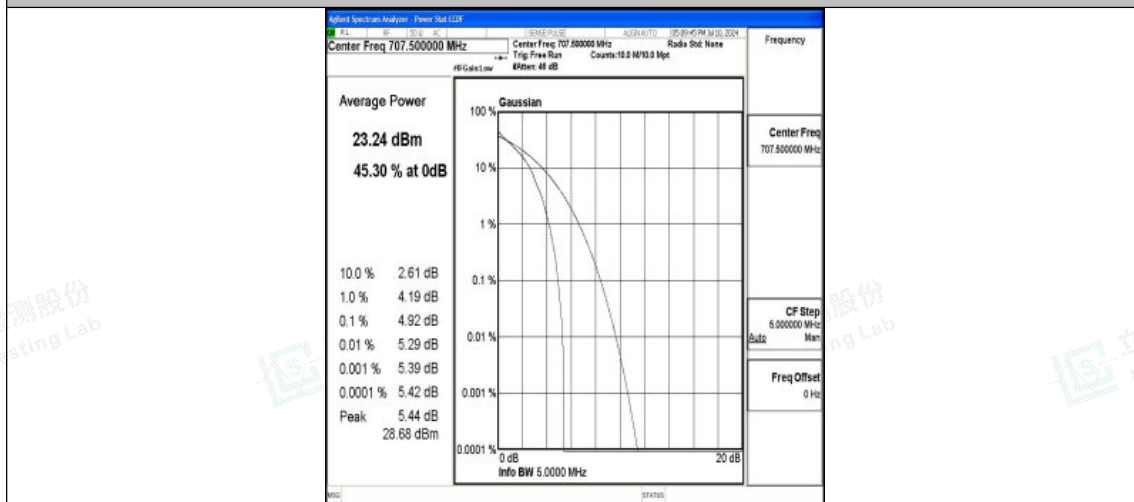
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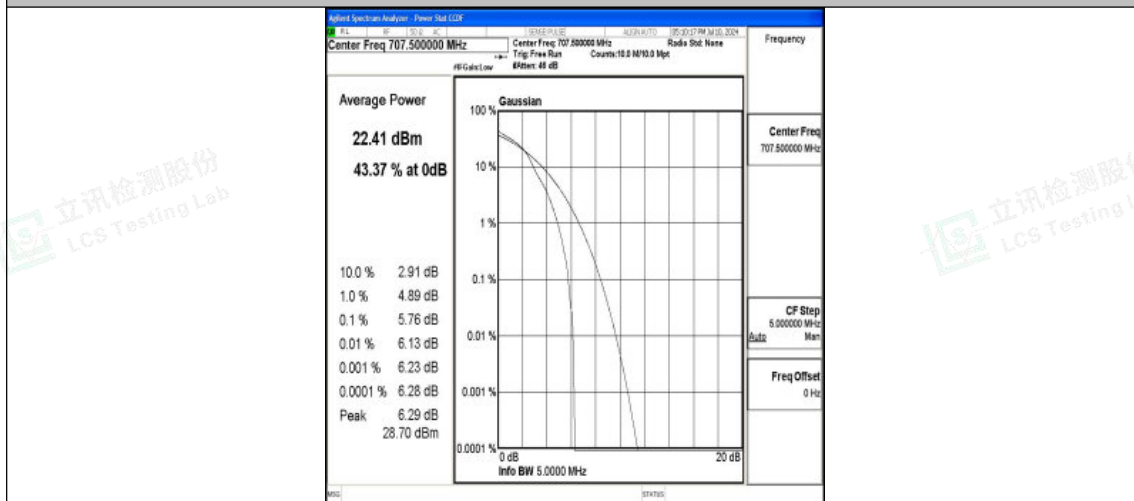
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Band12-3MHz-16QAM-23095-1RB#0-PASS

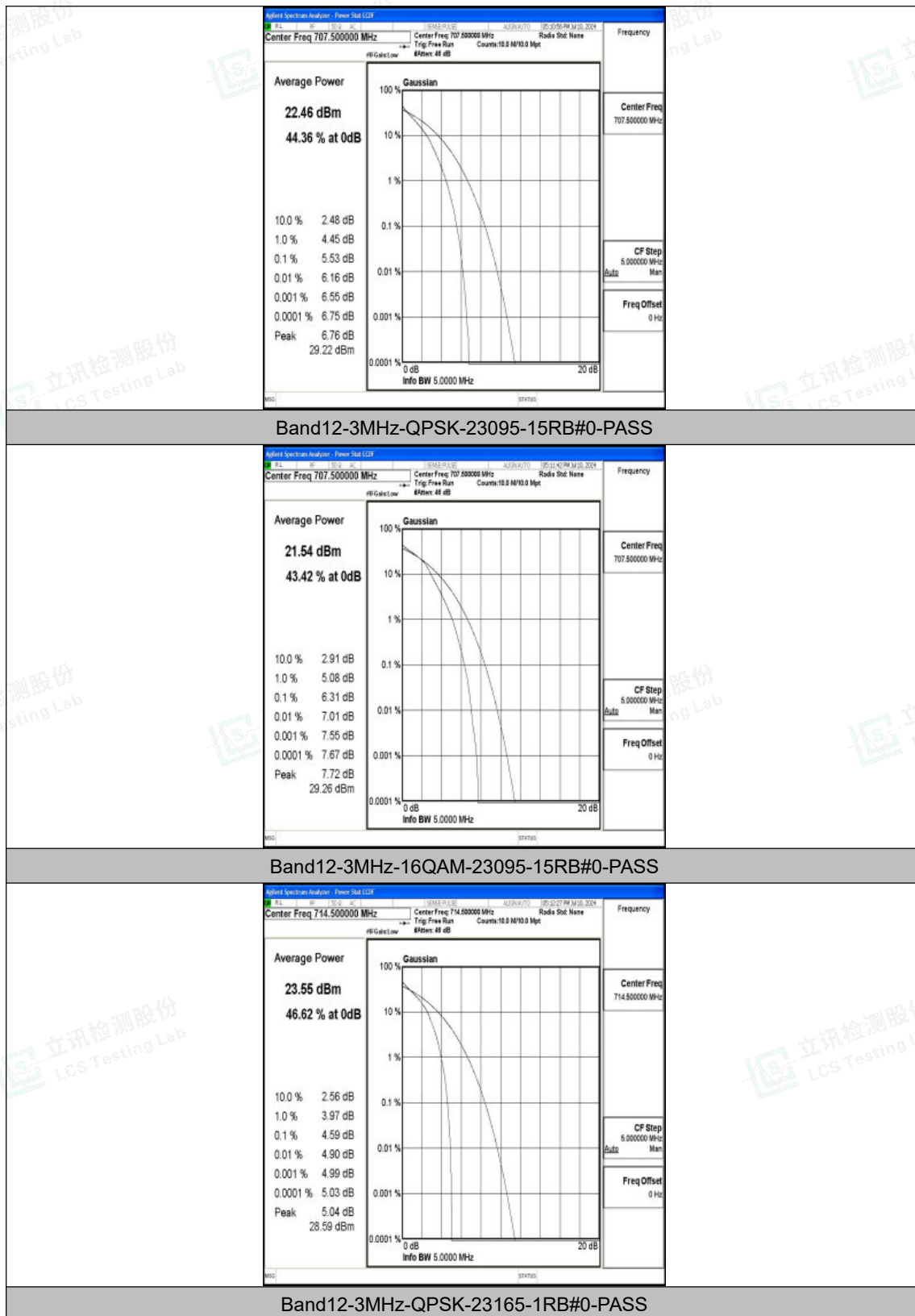


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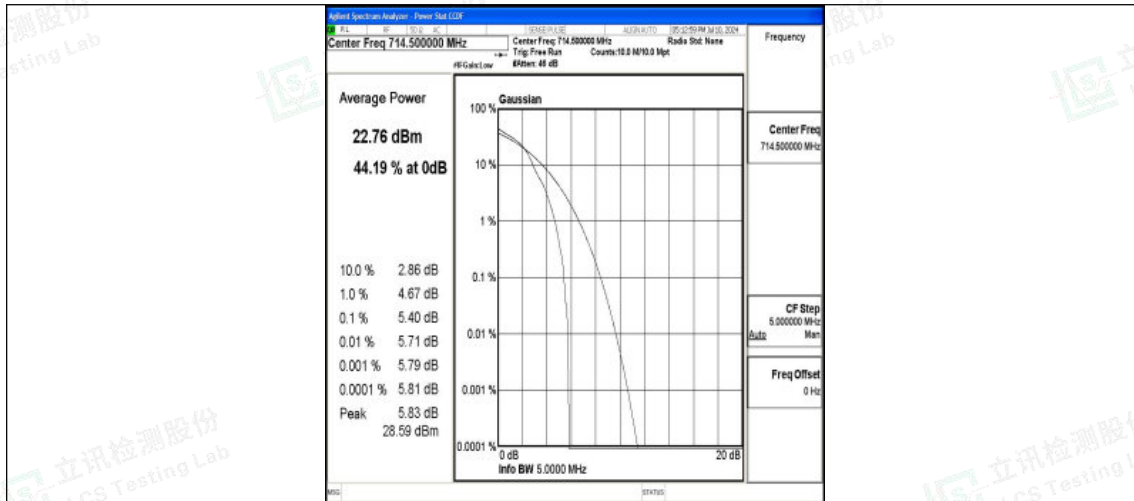


Shenzhen LCS Compliance Testing Laboratory Ltd.

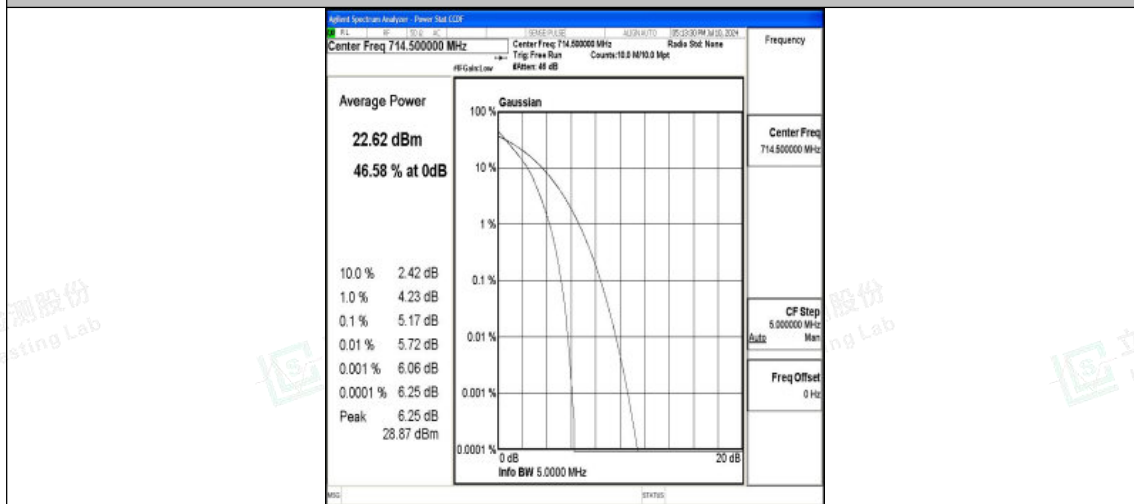
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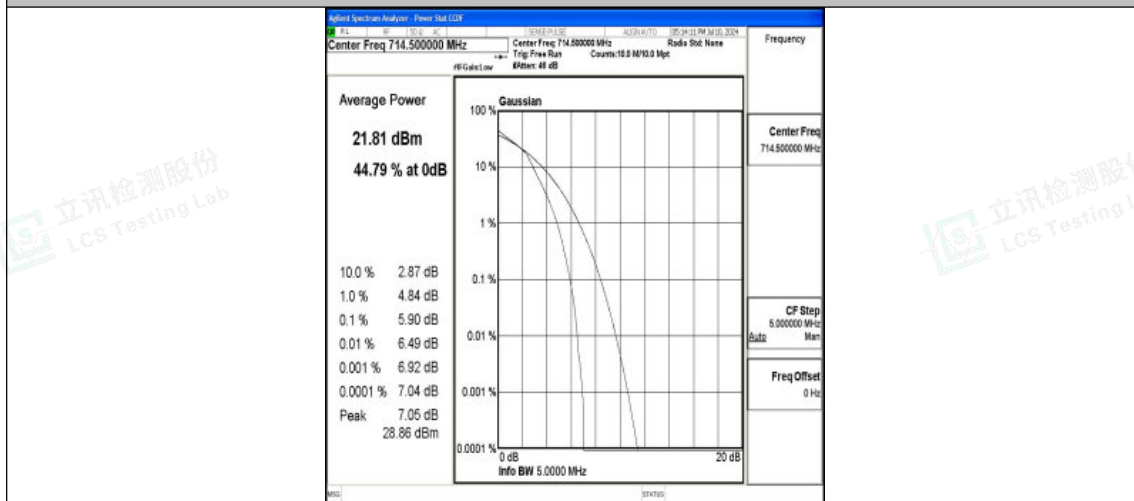
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Band12-3MHz-16QAM-23165-1RB#0-PASS



Band12-3MHz-QPSK-23165-15RB#0-PASS



Band12-3MHz-16QAM-23165-15RB#0-PASS

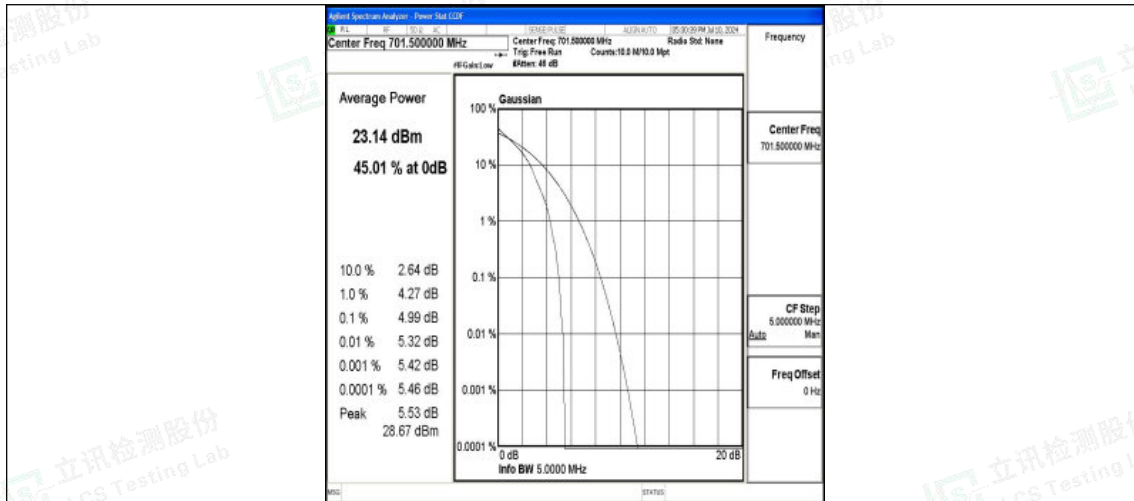


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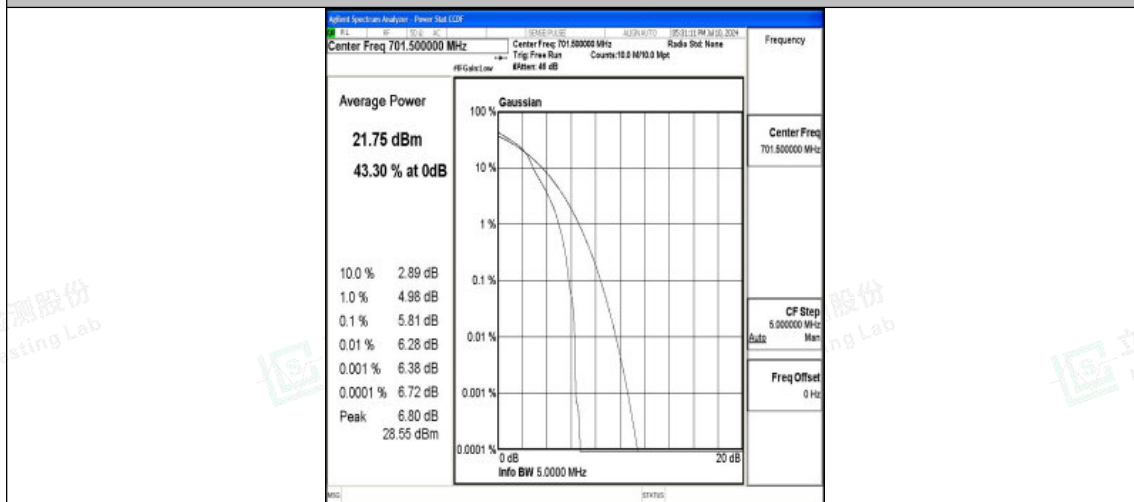
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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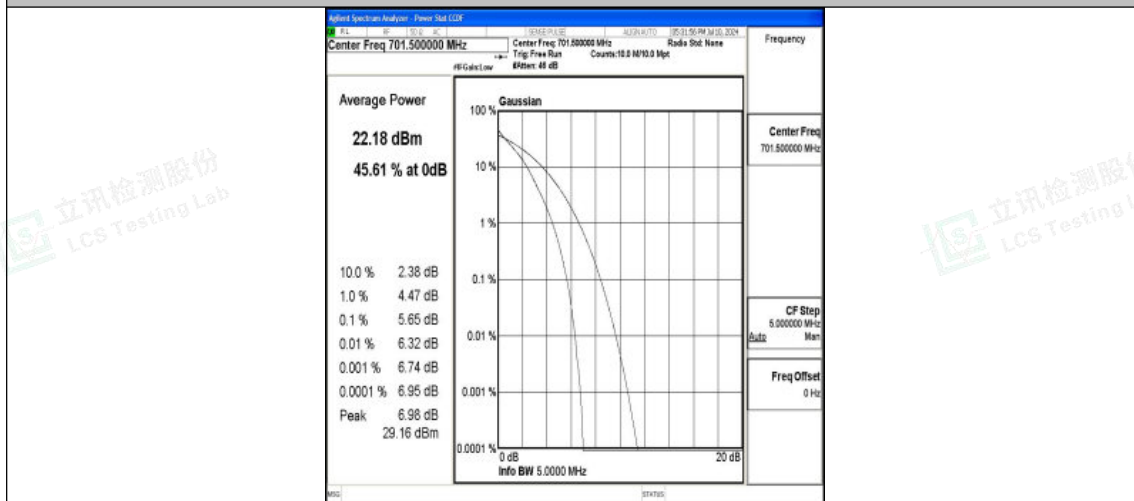
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Band12-5MHz-QPSK-23035-1RB#0-PASS



Band12-5MHz-16QAM-23035-1RB#0-PASS



Band12-5MHz-QPSK-23035-25RB#0-PASS

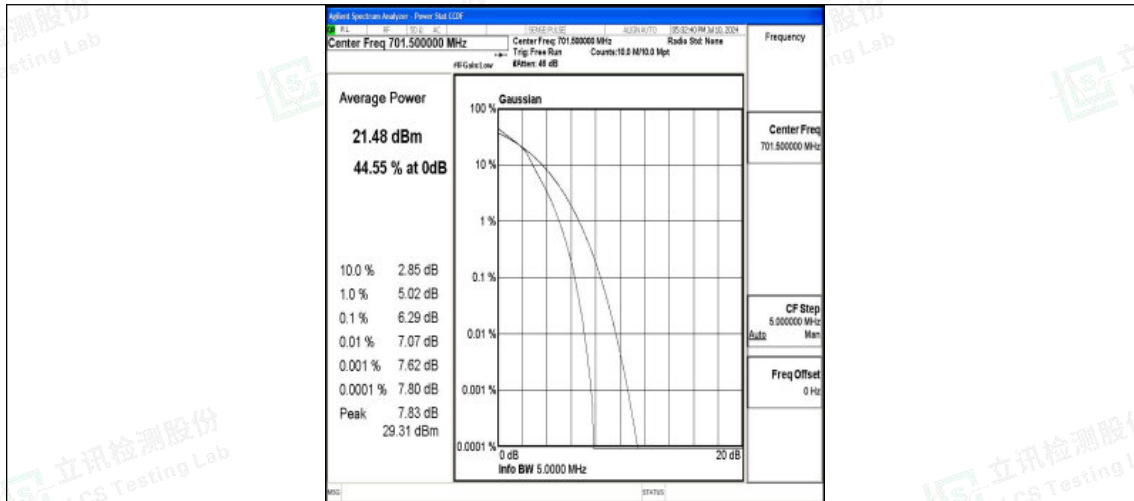


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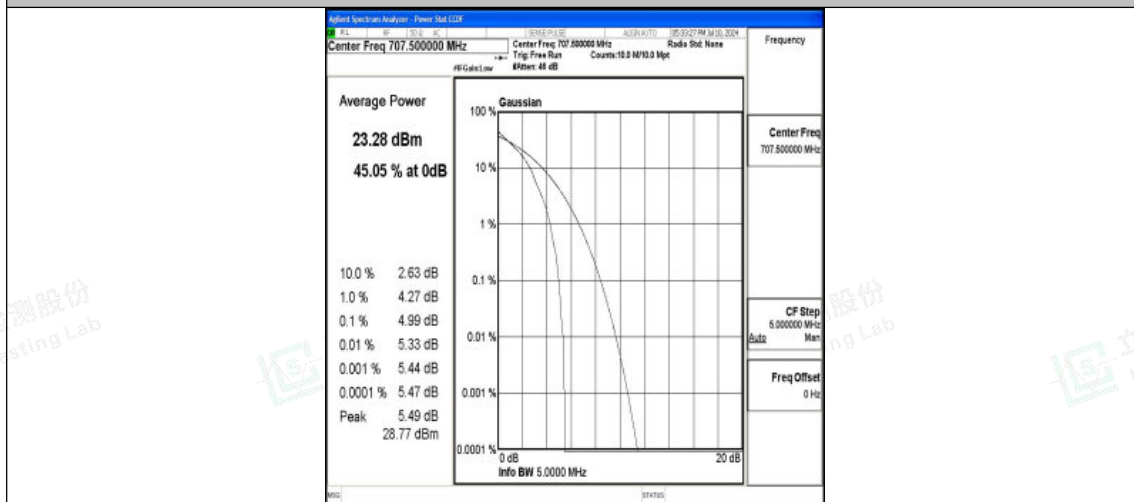
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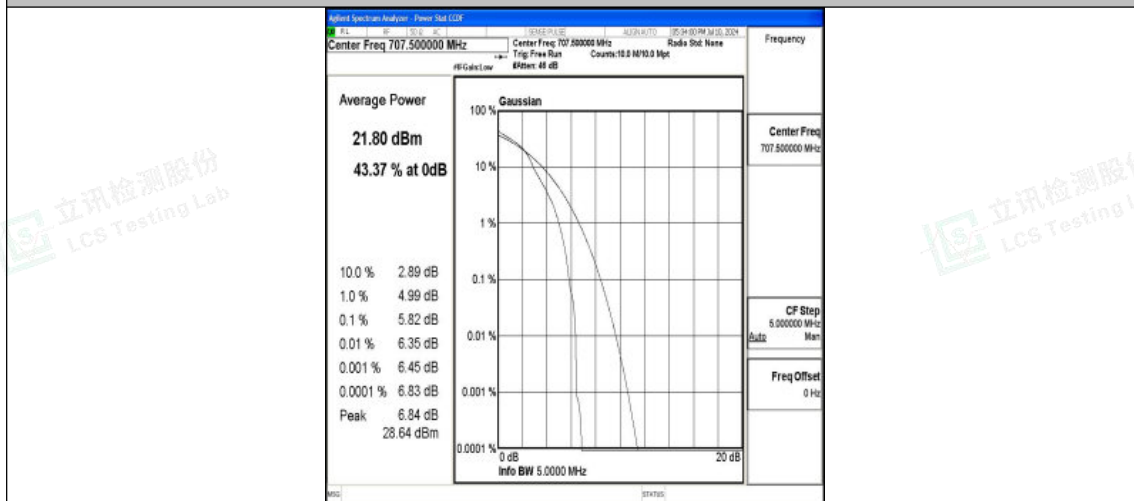
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Band12-5MHz-16QAM-23035-25RB#0-PASS



Band12-5MHz-QPSK-23095-1RB#0-PASS



Band12-5MHz-16QAM-23095-1RB#0-PASS

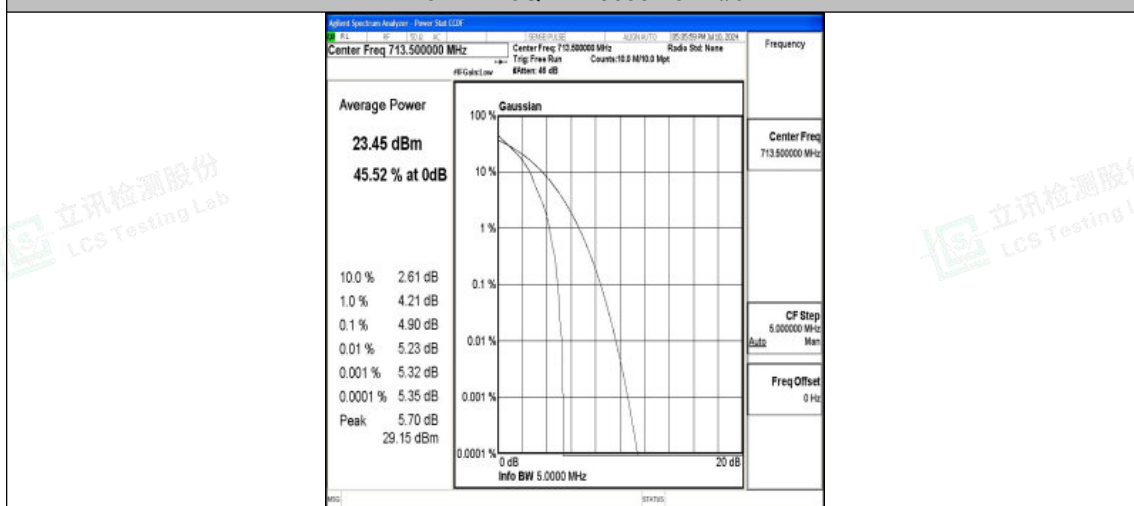
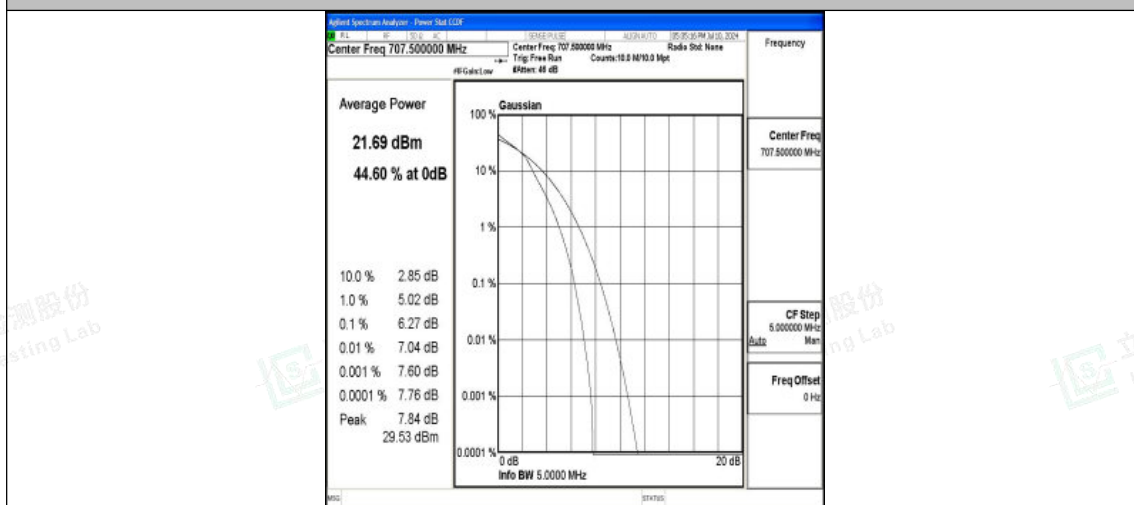
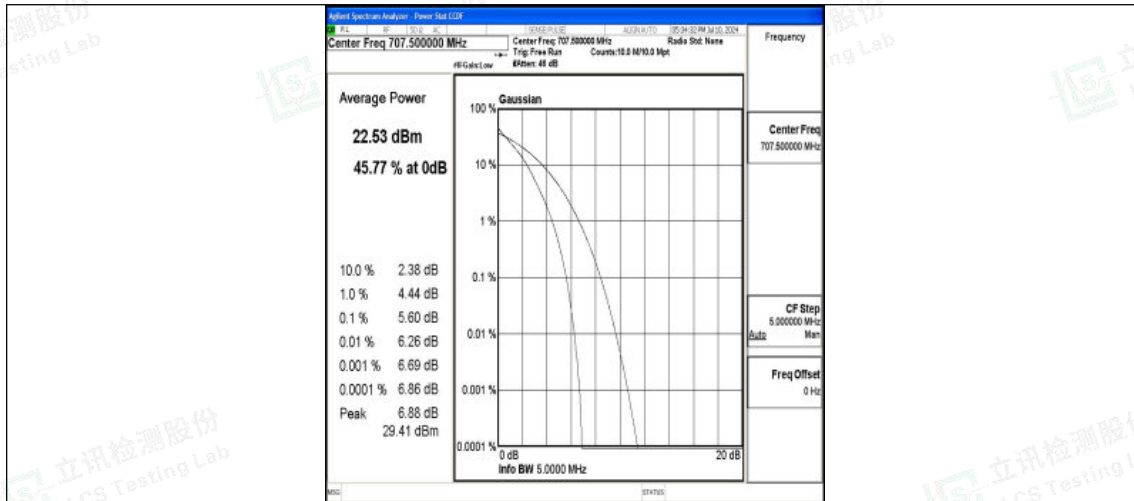


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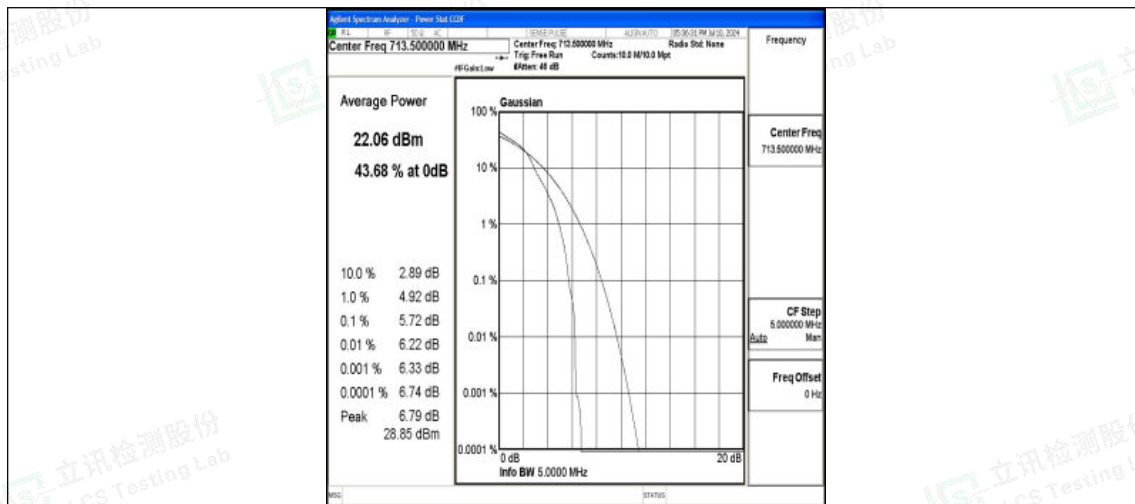


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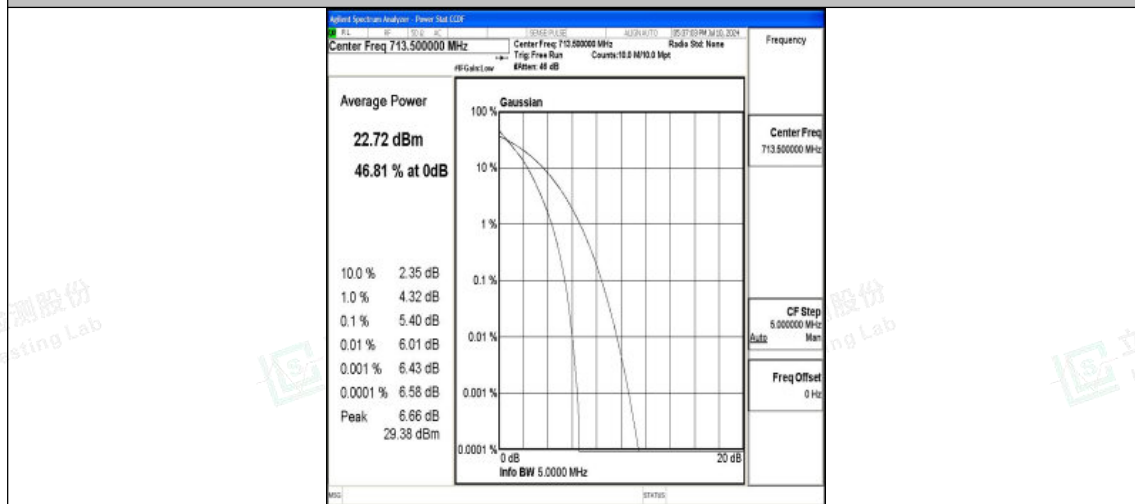
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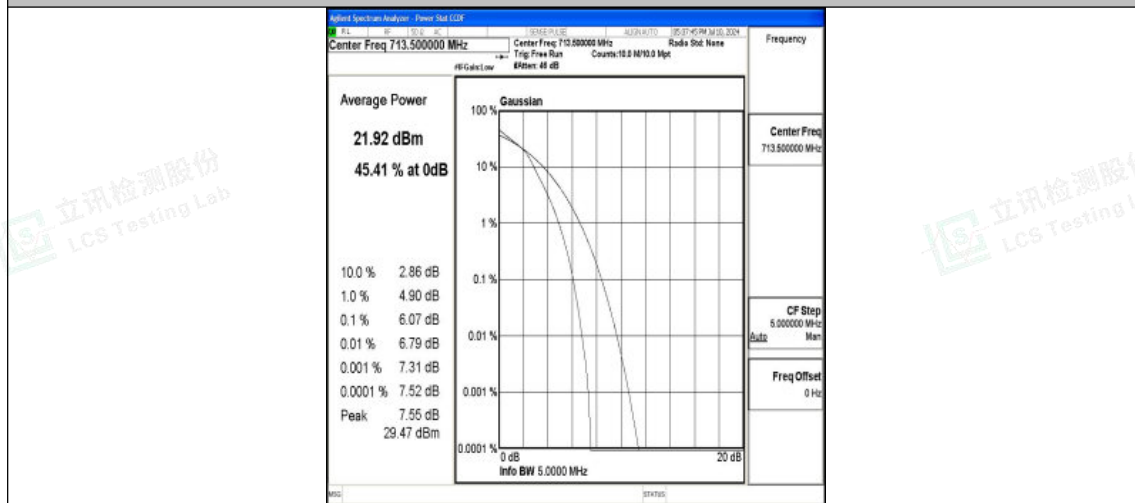
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## Band12-5MHz-16QAM-23155-1RB#0-PASS



## Band12-5MHz-QPSK-23155-25RB#0-PASS



## Band12-5MHz-16QAM-23155-25RB#0-PASS

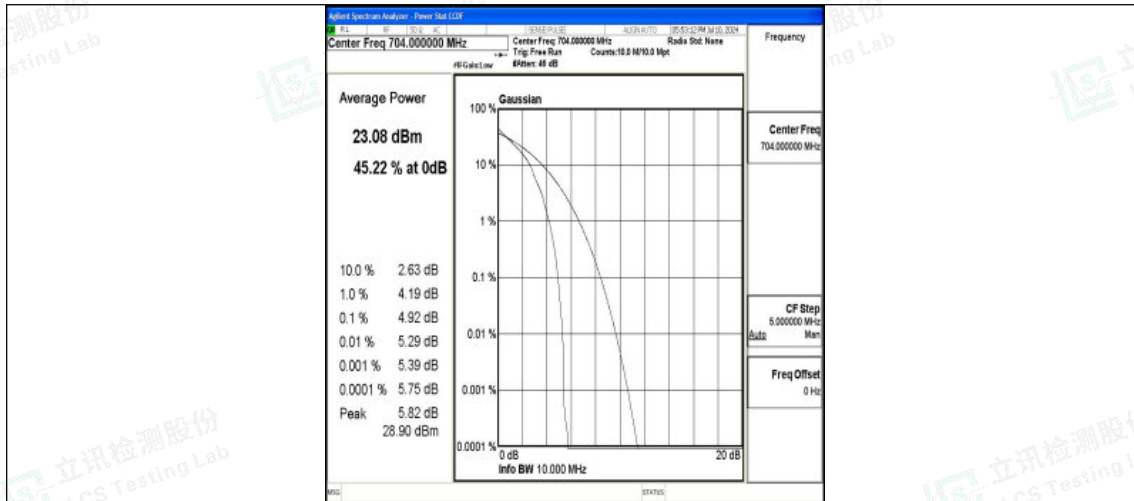


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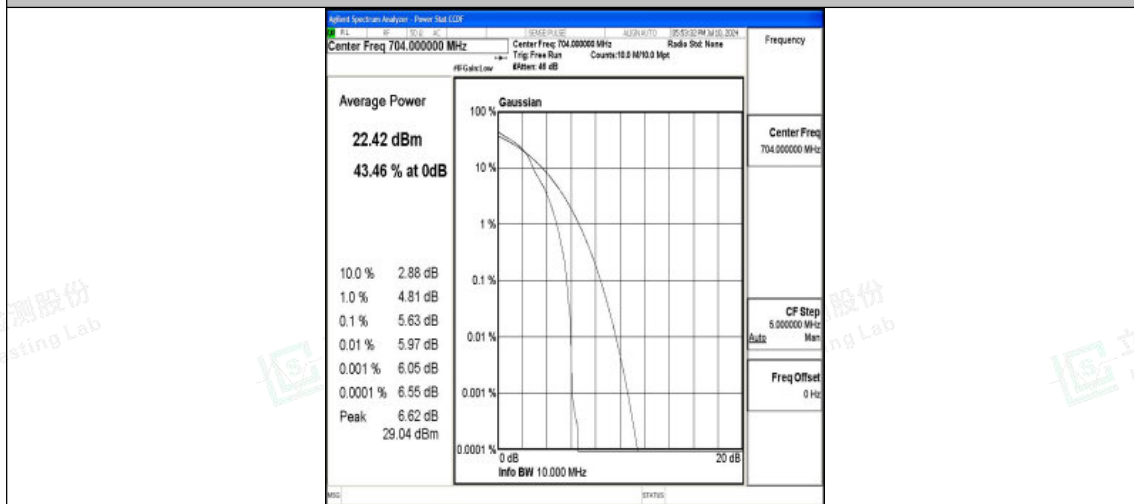
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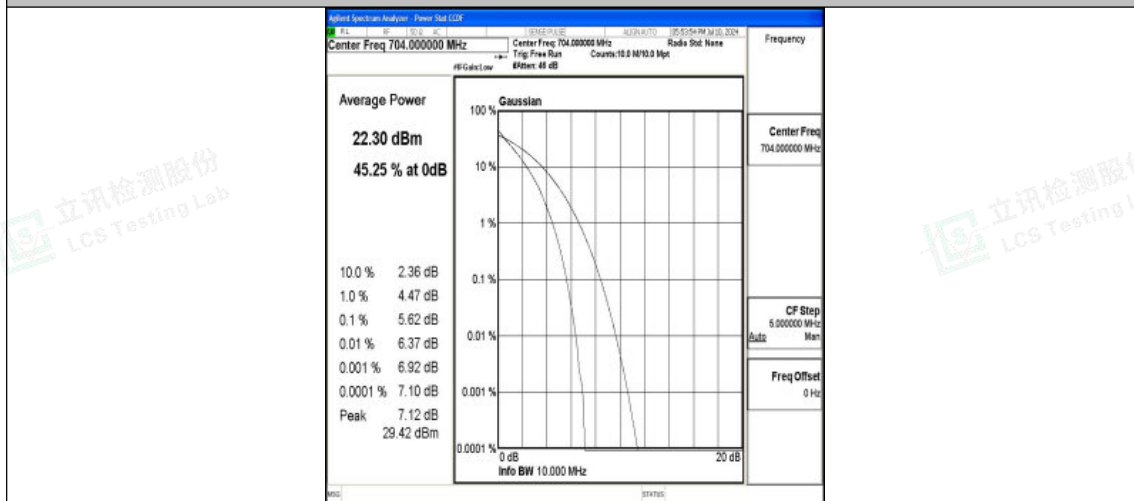
Scan code to check authenticity



Band12-10MHz-QPSK-23060-1RB#0-PASS



Band12-10MHz-16QAM-23060-1RB#0-PASS



Band12-10MHz-QPSK-23060-50RB#0-PASS

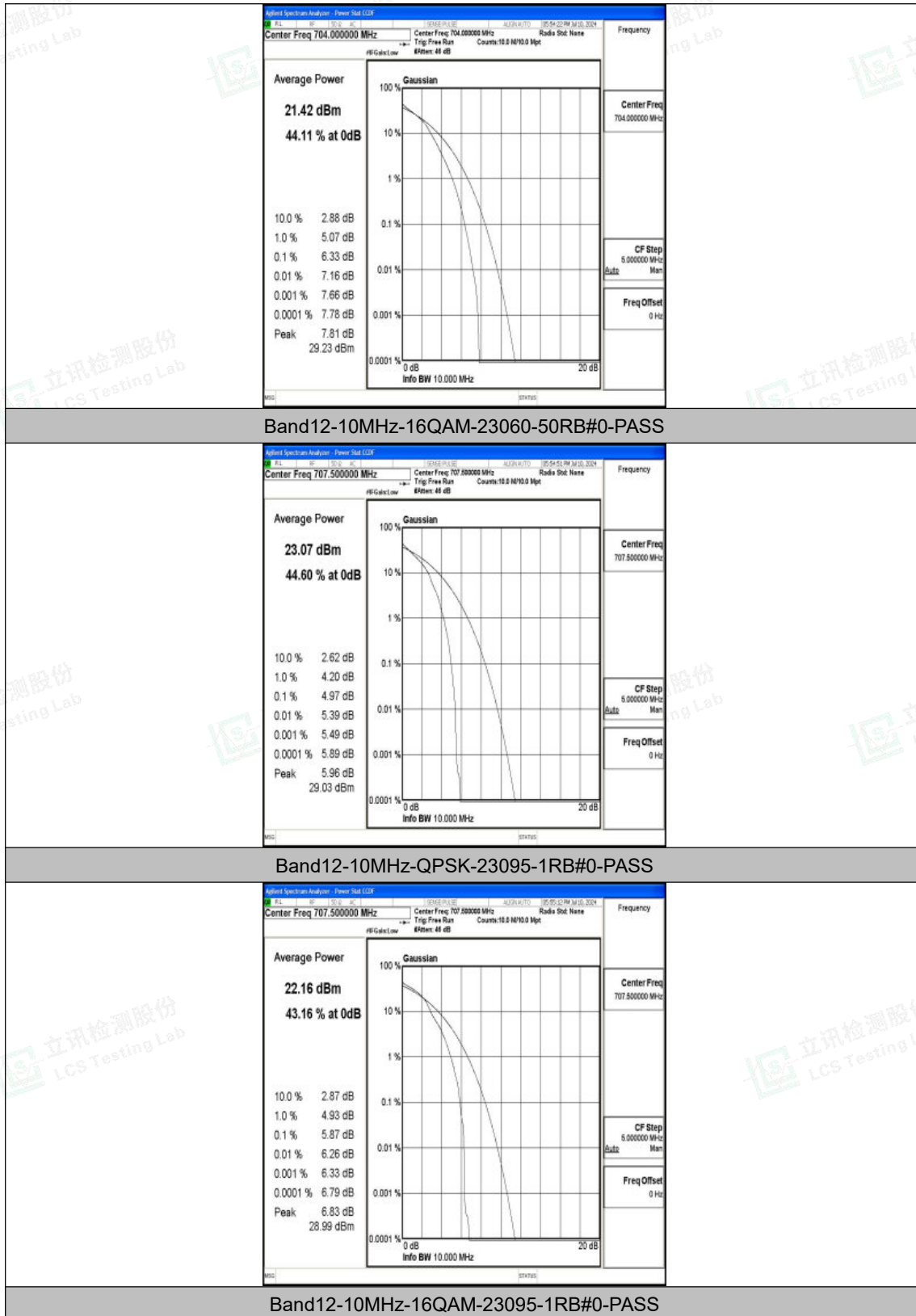


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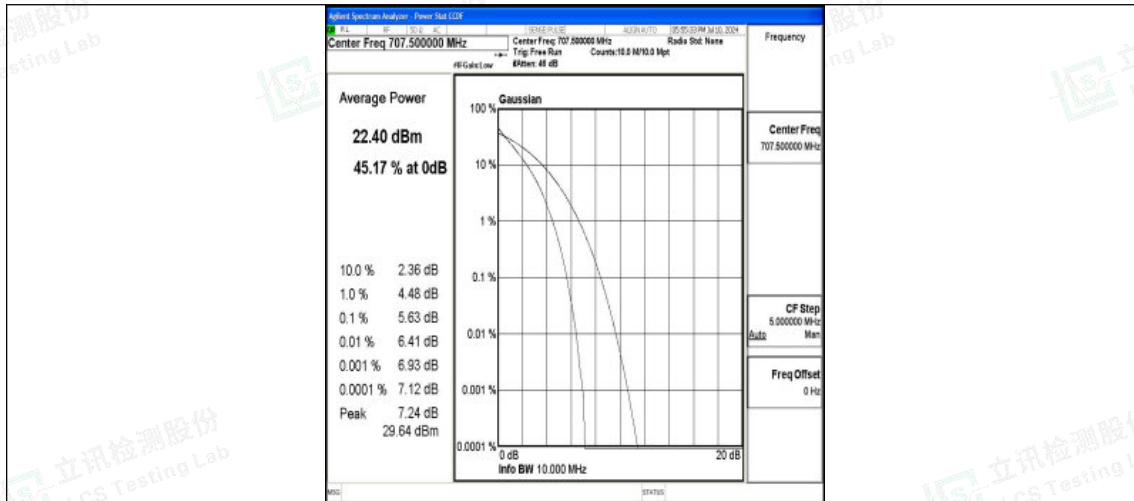


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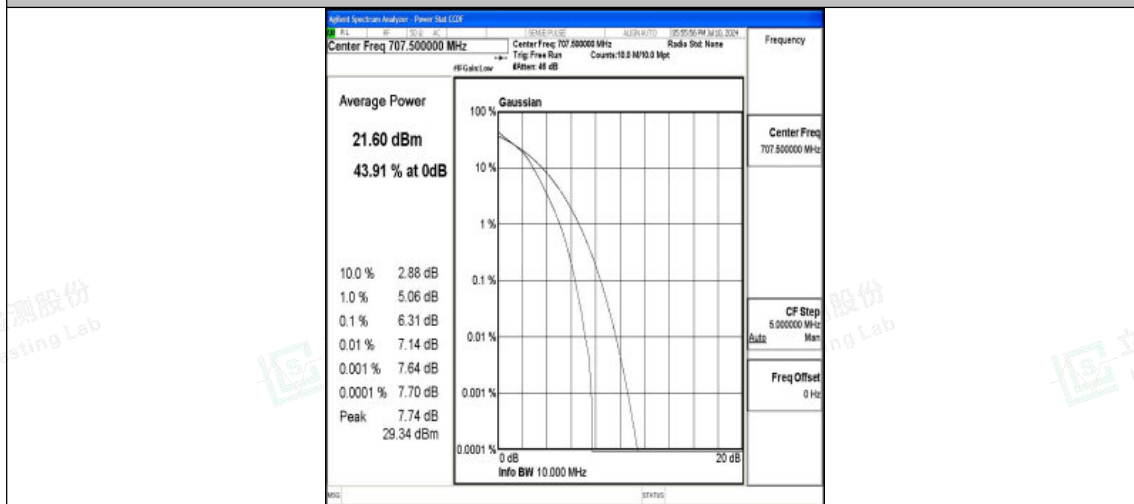
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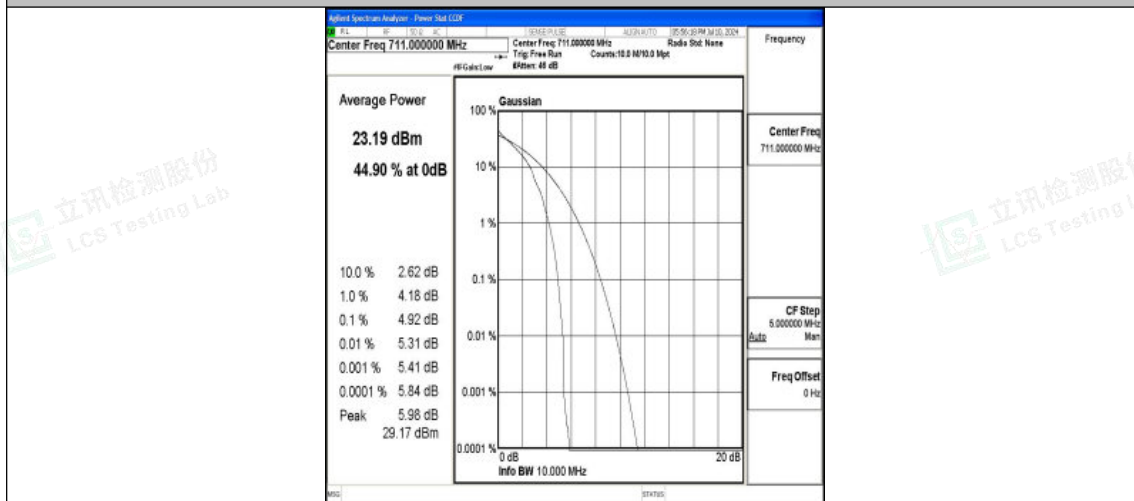
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Band12-10MHz-QPSK-23095-50RB#0-PASS



Band12-10MHz-16QAM-23095-50RB#0-PASS



Band12-10MHz-QPSK-23130-1RB#0-PASS

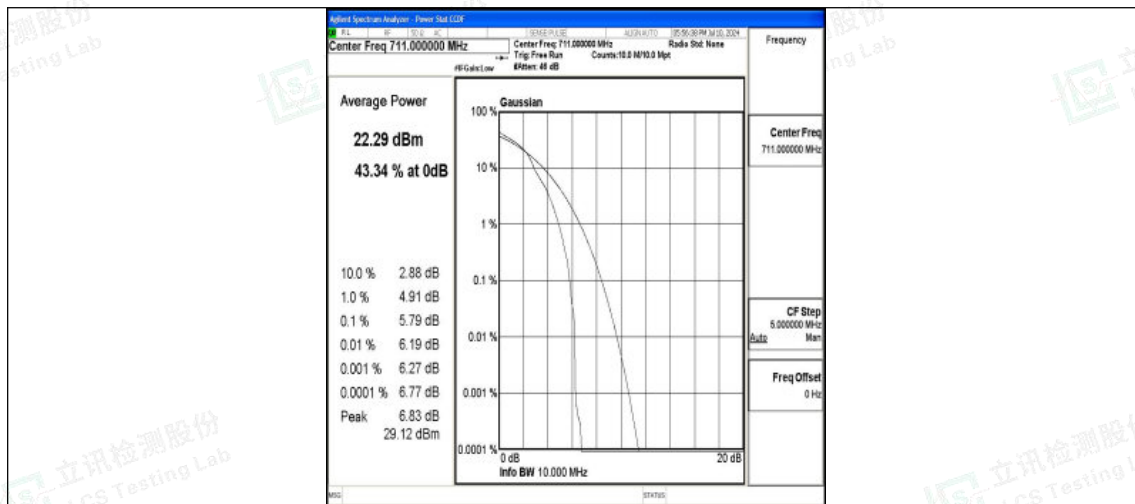


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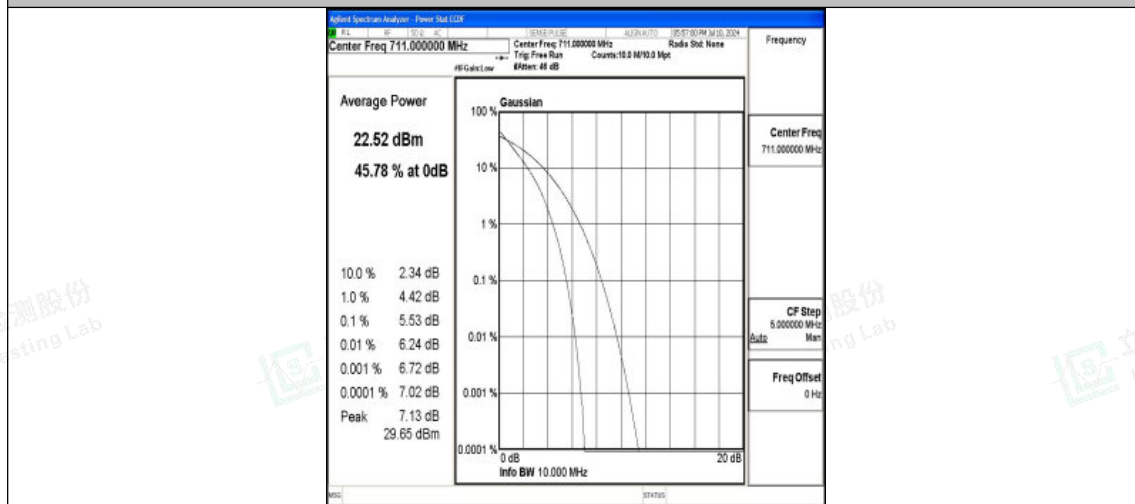
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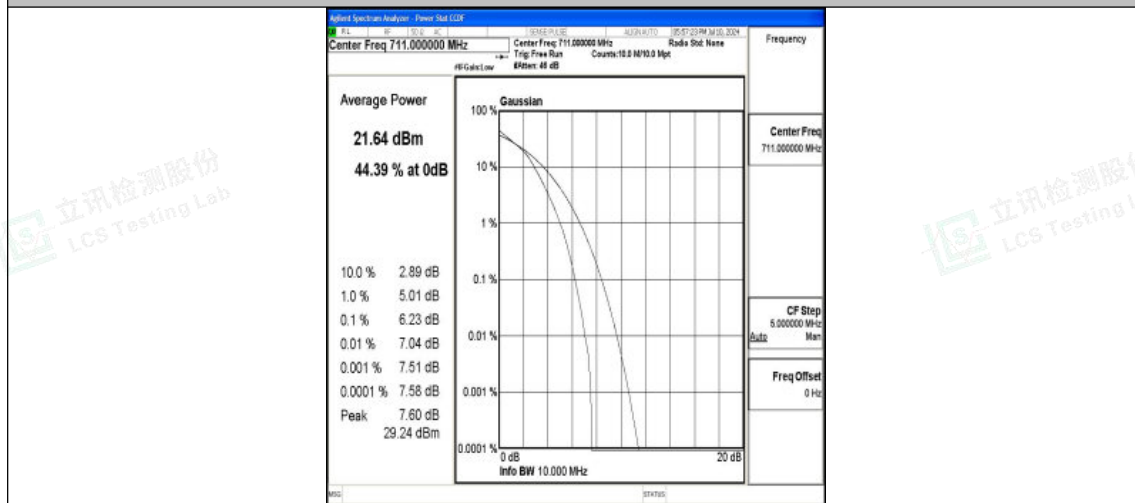
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Band12-10MHz-16QAM-23130-1RB#0-PASS



Band12-10MHz-QPSK-23130-50RB#0-PASS



Band12-10MHz-16QAM-23130-50RB#0-PASS



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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 |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 1.0967                   | 1.293                | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 1.1006                   | 1.282                | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 1.0923                   | 1.297                | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 1.1055                   | 1.327                | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 1.0947                   | 1.287                | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 1.1038                   | 1.298                | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 15RB#0           | 2.7200                   | 3.111                | PASS    |
| Band12 | 3MHz      | 16QAM      | 23025   | 15RB#0           | 2.7010                   | 3.099                | PASS    |
| Band12 | 3MHz      | QPSK       | 23095   | 15RB#0           | 2.7139                   | 3.207                | PASS    |
| Band12 | 3MHz      | 16QAM      | 23095   | 15RB#0           | 2.6999                   | 3.078                | PASS    |
| Band12 | 3MHz      | QPSK       | 23165   | 15RB#0           | 2.7114                   | 3.167                | PASS    |
| Band12 | 3MHz      | 16QAM      | 23165   | 15RB#0           | 2.7034                   | 3.066                | PASS    |
| Band12 | 5MHz      | QPSK       | 23035   | 25RB#0           | 4.5117                   | 5.281                | PASS    |
| Band12 | 5MHz      | 16QAM      | 23035   | 25RB#0           | 4.5182                   | 5.281                | PASS    |
| Band12 | 5MHz      | QPSK       | 23095   | 25RB#0           | 4.5236                   | 5.345                | PASS    |
| Band12 | 5MHz      | 16QAM      | 23095   | 25RB#0           | 4.5141                   | 5.352                | PASS    |
| Band12 | 5MHz      | QPSK       | 23155   | 25RB#0           | 4.5191                   | 5.294                | PASS    |
| Band12 | 5MHz      | 16QAM      | 23155   | 25RB#0           | 4.5105                   | 4.966                | PASS    |
| Band12 | 10MHz     | QPSK       | 23060   | 50RB#0           | 8.9965                   | 10.01                | PASS    |
| Band12 | 10MHz     | 16QAM      | 23060   | 50RB#0           | 8.9841                   | 10.19                | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0           | 8.9963                   | 10.08                | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 50RB#0           | 9.0004                   | 10.10                | PASS    |
| Band12 | 10MHz     | QPSK       | 23130   | 50RB#0           | 9.0052                   | 9.993                | PASS    |
| Band12 | 10MHz     | 16QAM      | 23130   | 50RB#0           | 8.9951                   | 10.10                | PASS    |



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## Test Graphs

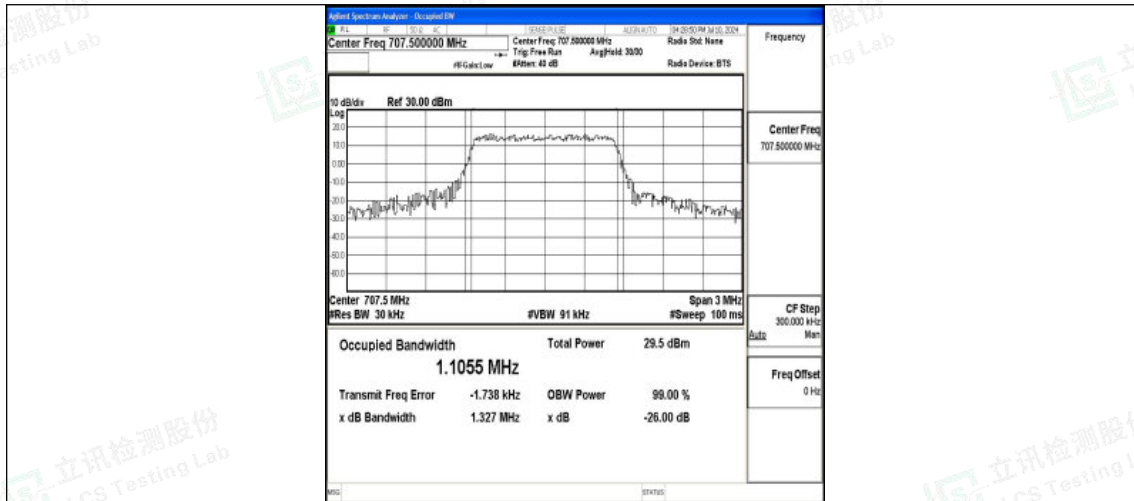


Shenzhen LCS Compliance Testing Laboratory Ltd.

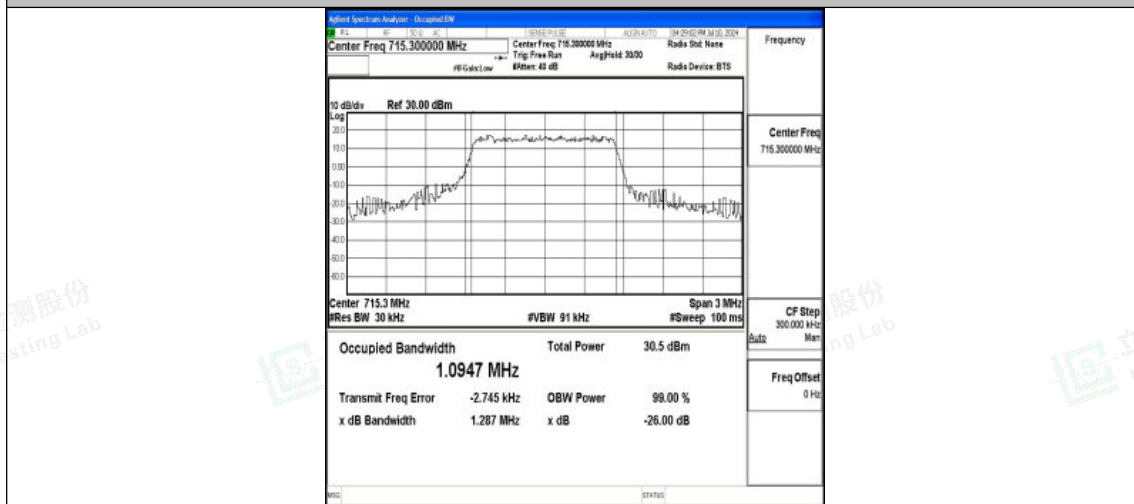
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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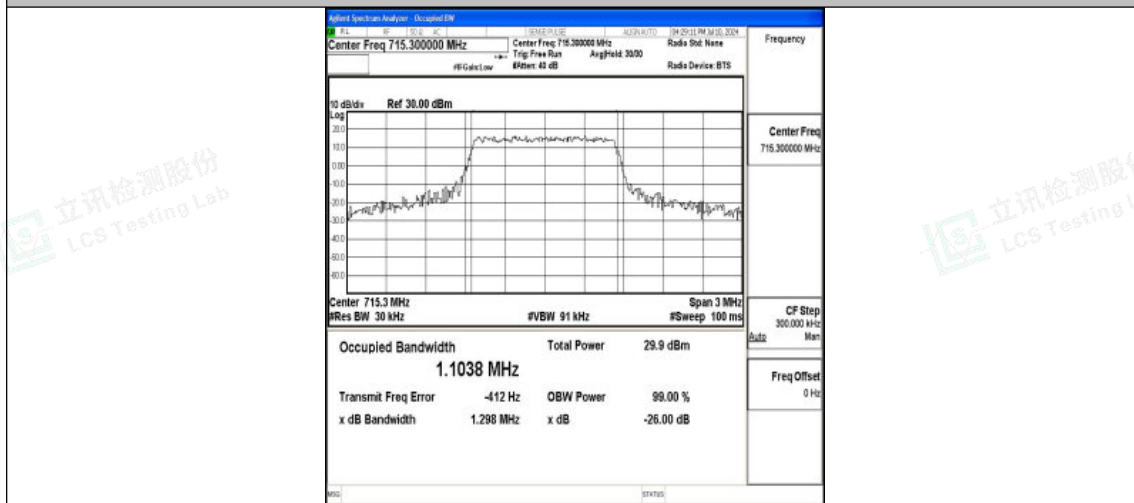
Scan code to check authenticity



Band12-1.4MHz-16QAM-23095-6RB#0-PASS



Band12-1.4MHz-QPSK-23173-6RB#0-PASS



Band12-1.4MHz-16QAM-23173-6RB#0-PASS

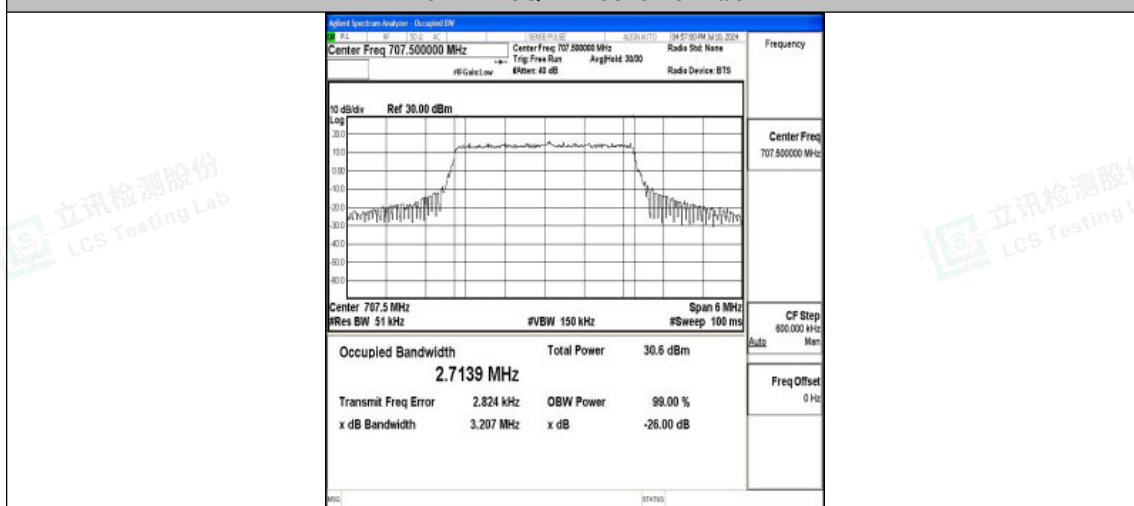
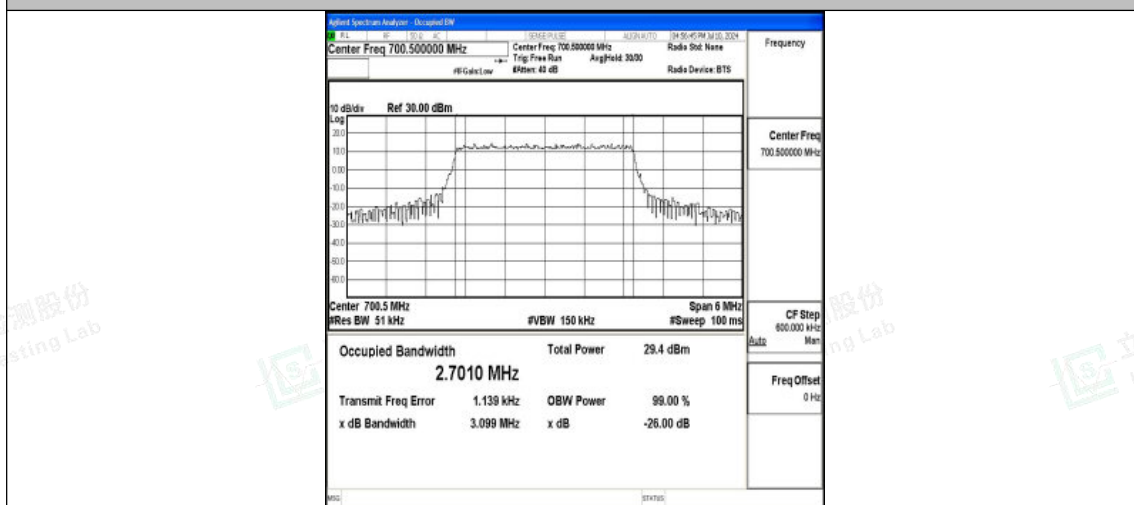
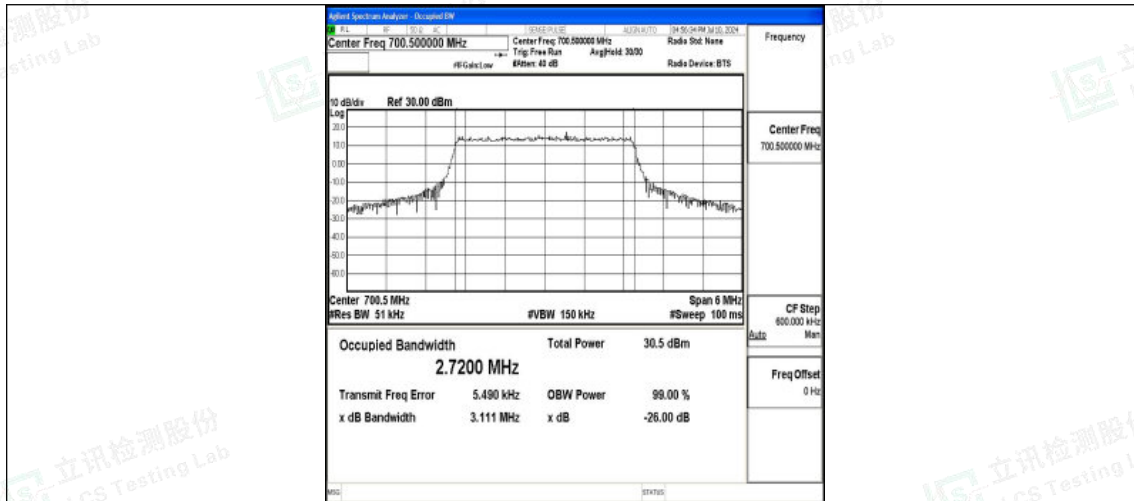


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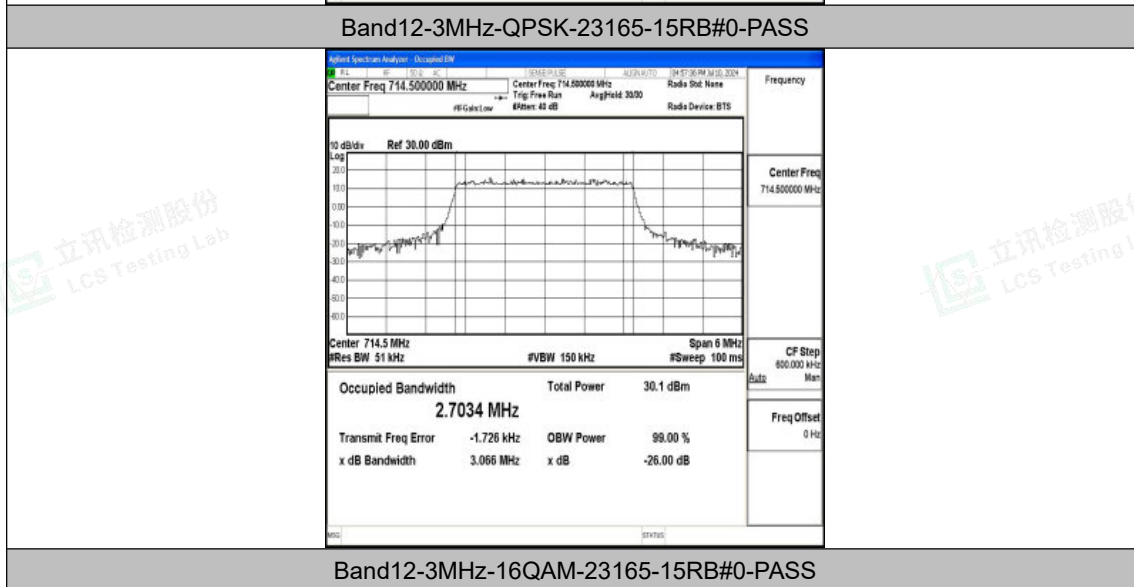
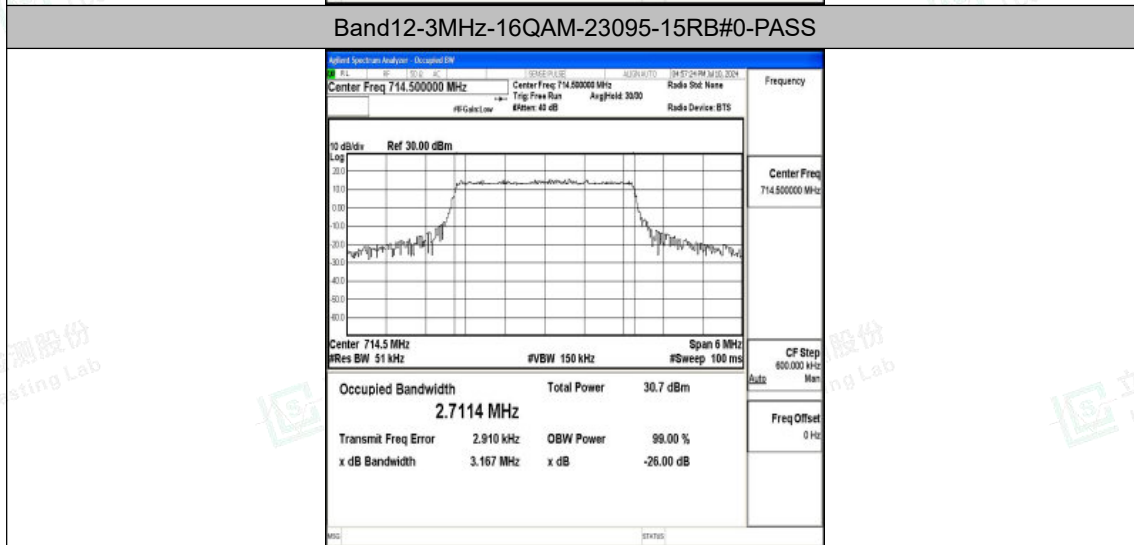
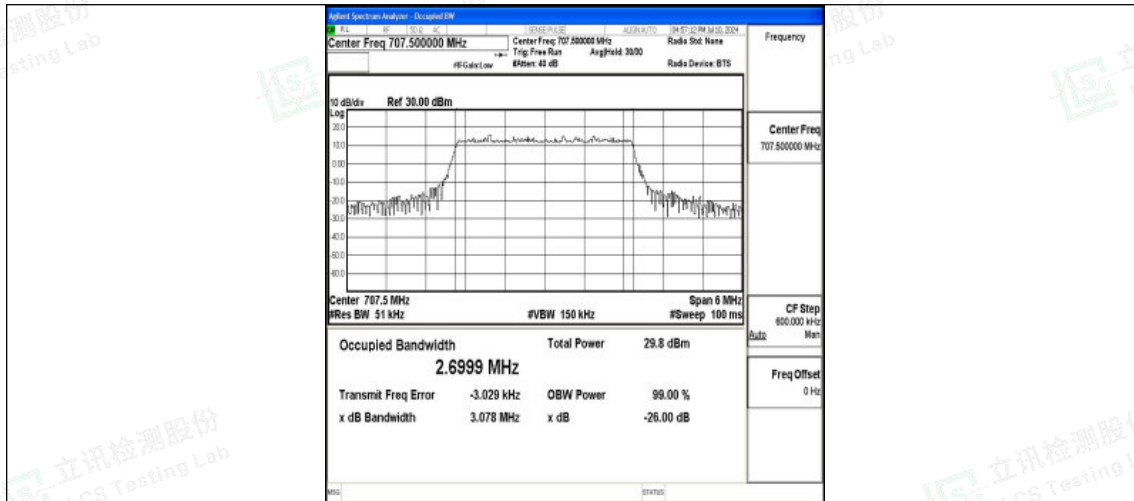


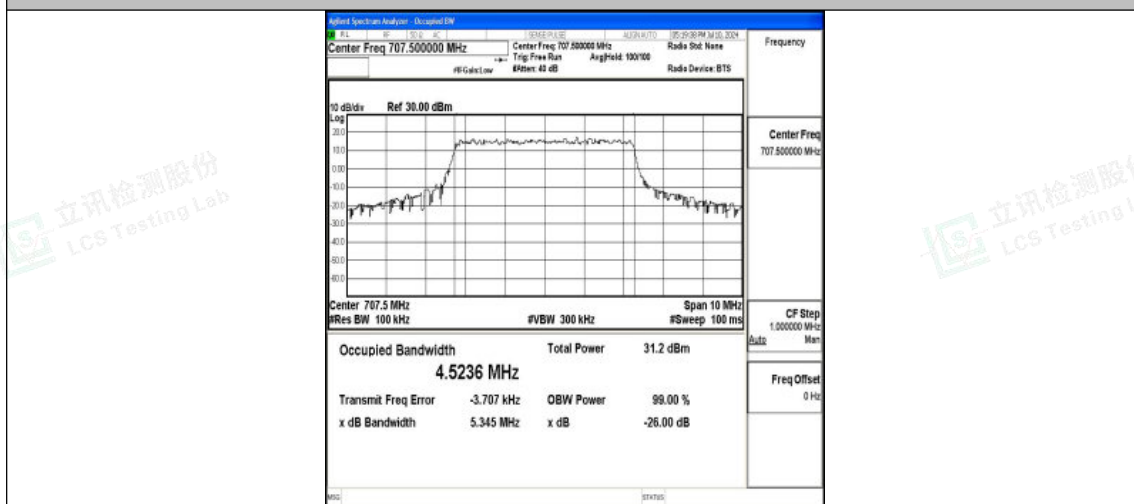
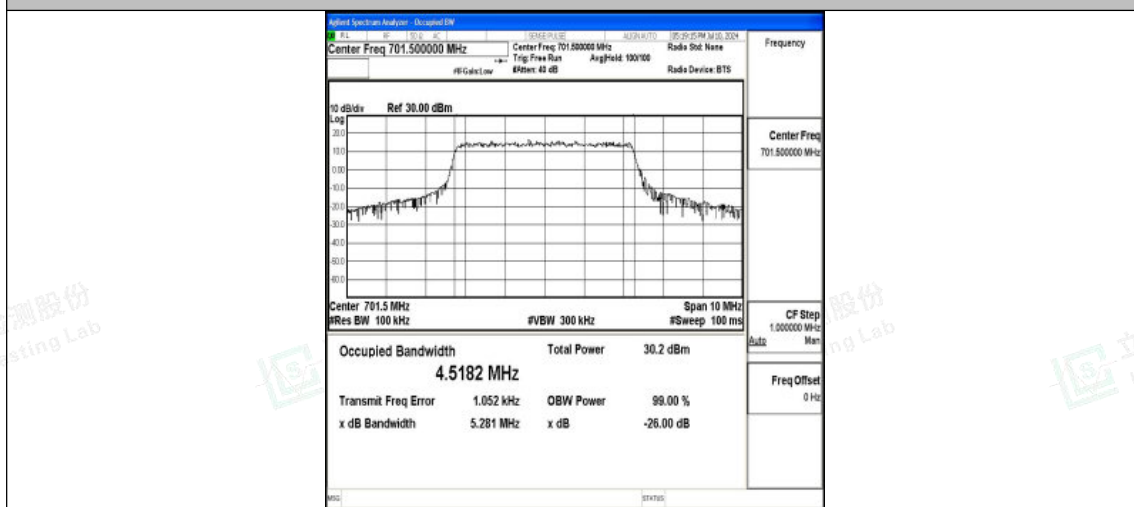
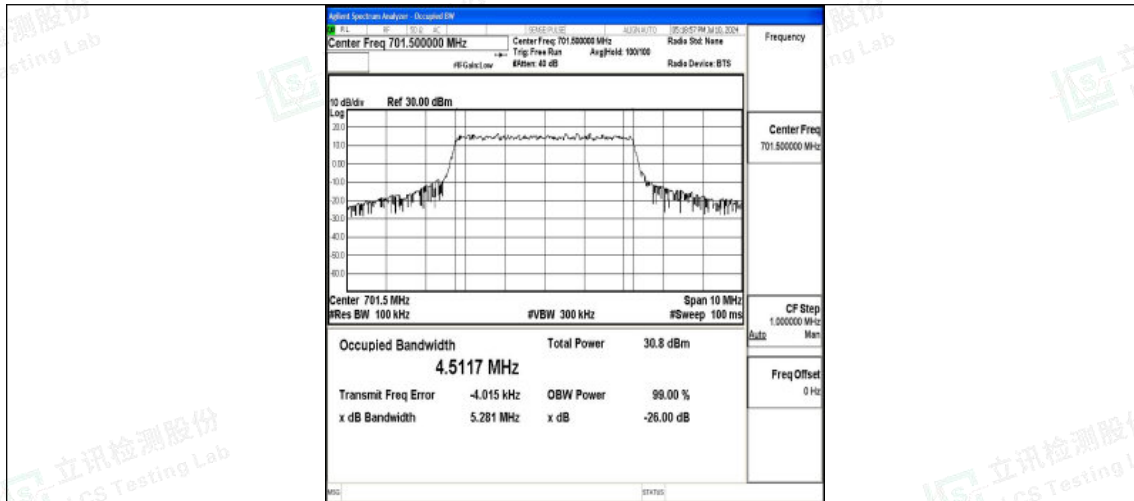
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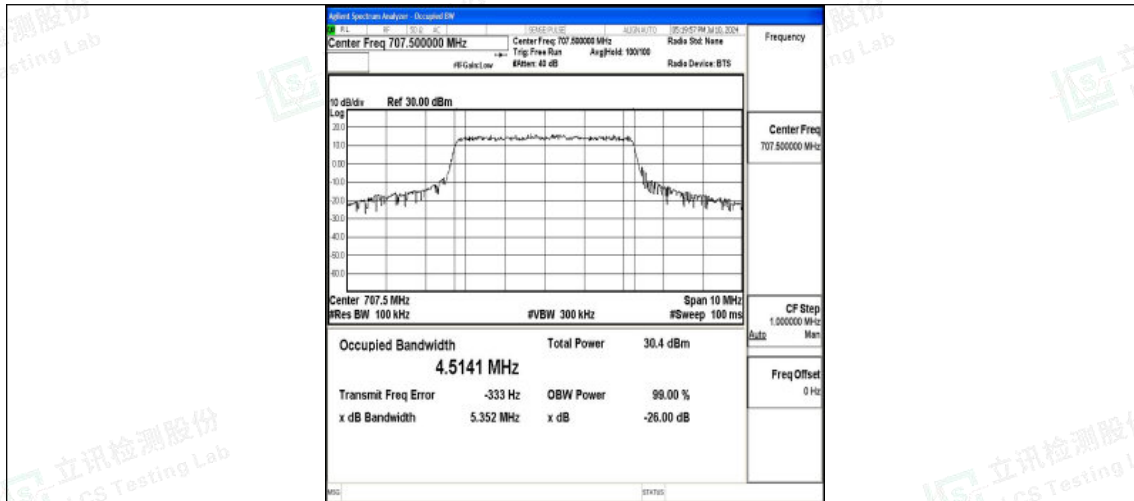


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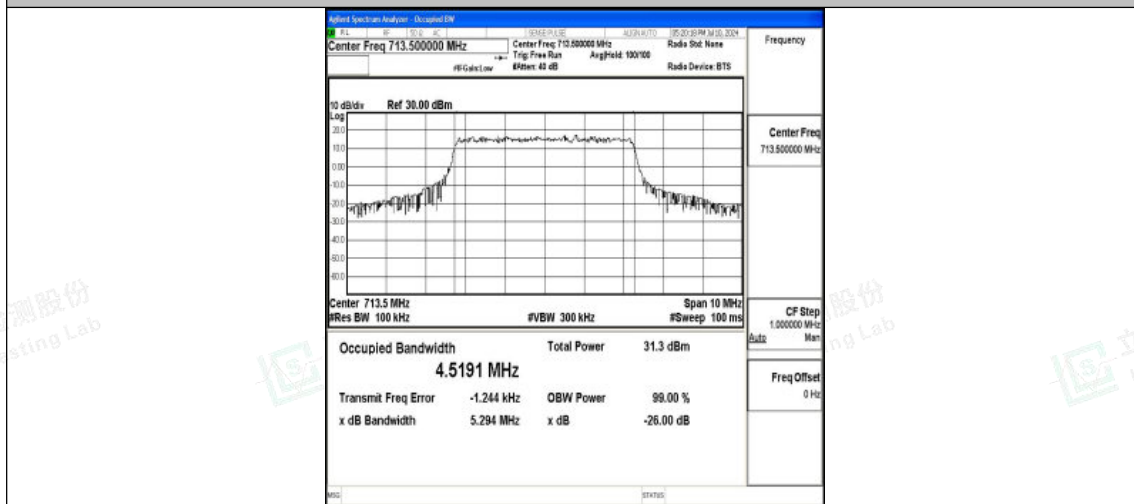
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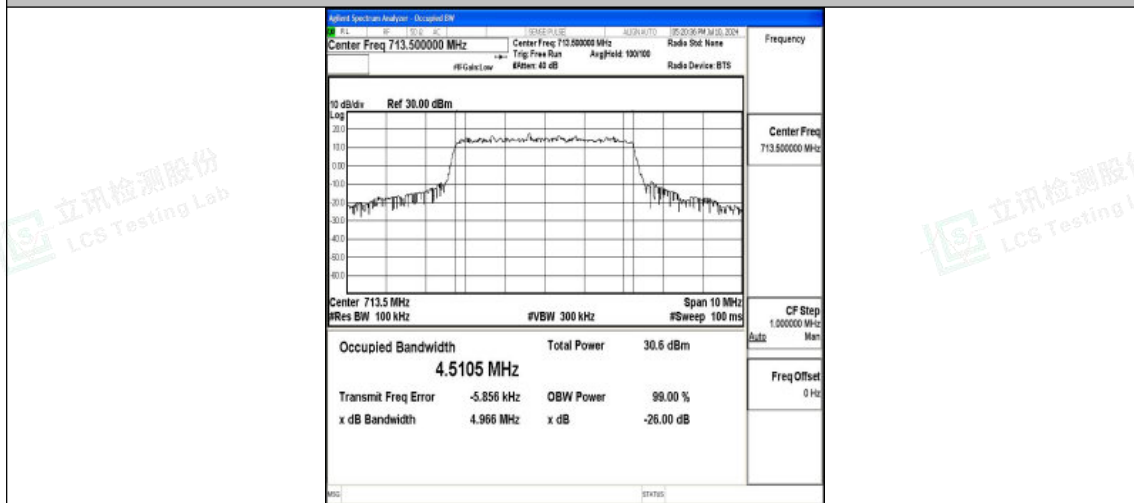
Scan code to check authenticity



## Band12-5MHz-16QAM-23095-25RB#0-PASS



## Band12-5MHz-QPSK-23155-25RB#0-PASS



## Band12-5MHz-16QAM-23155-25RB#0-PASS

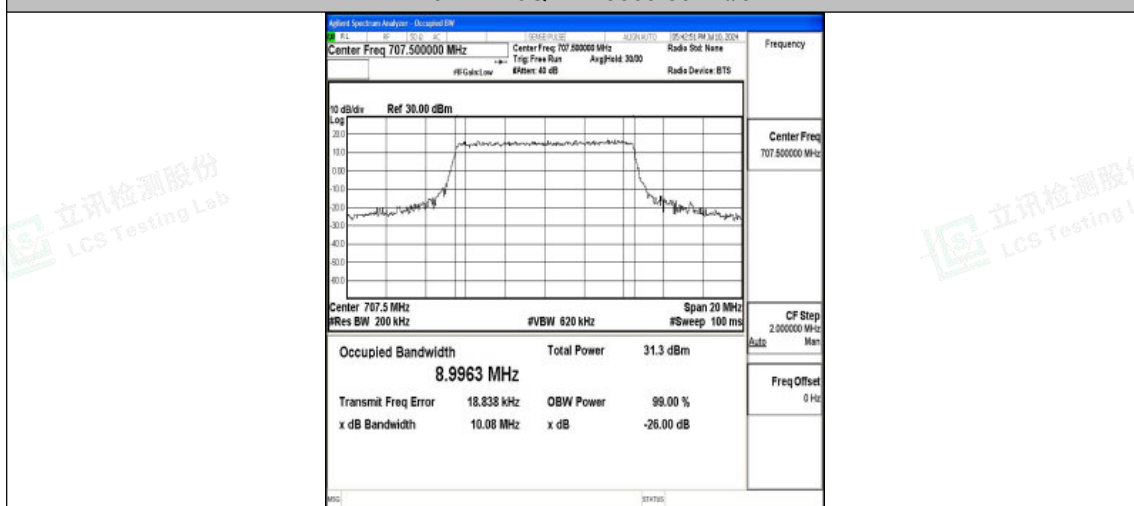
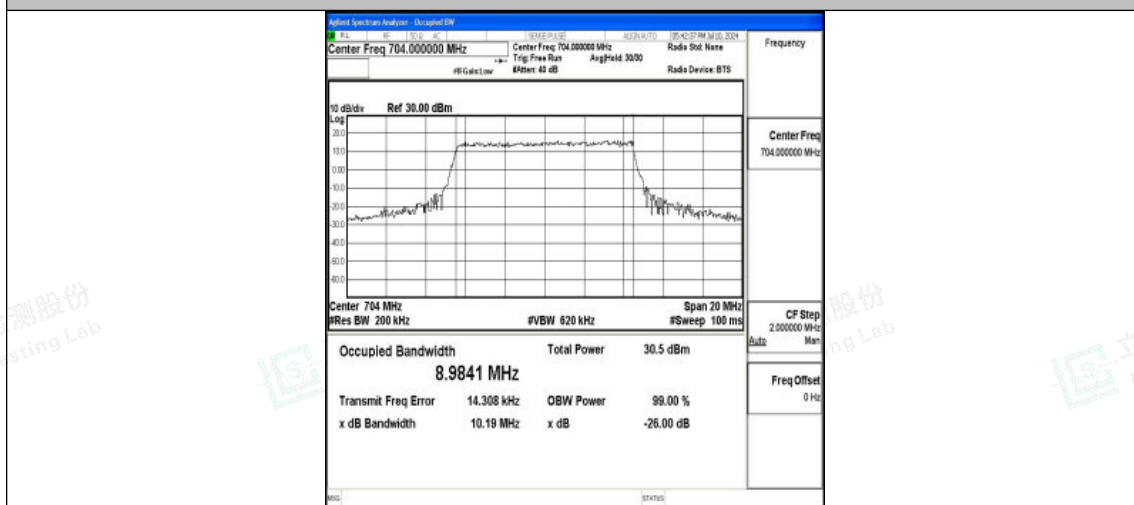
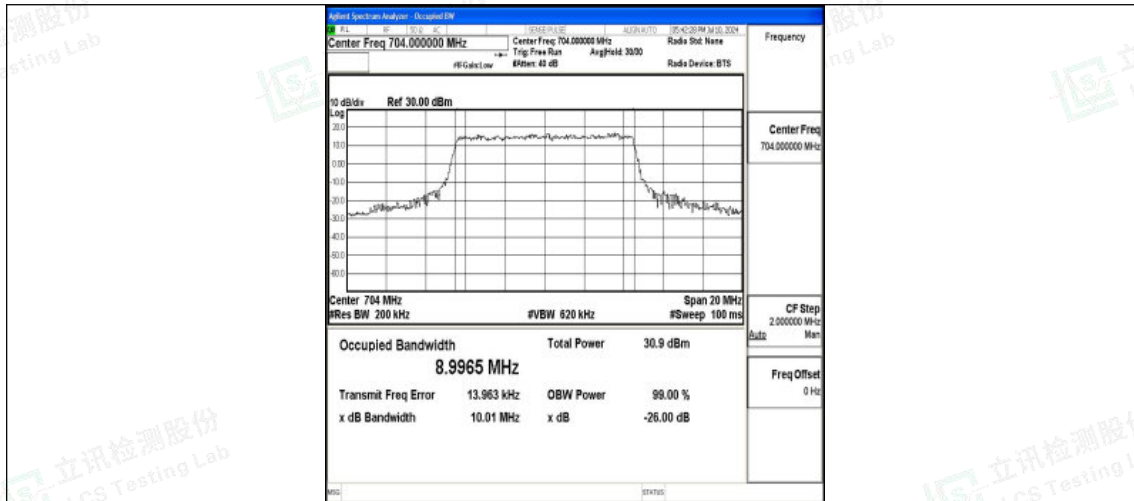


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Scan code to check authenticity

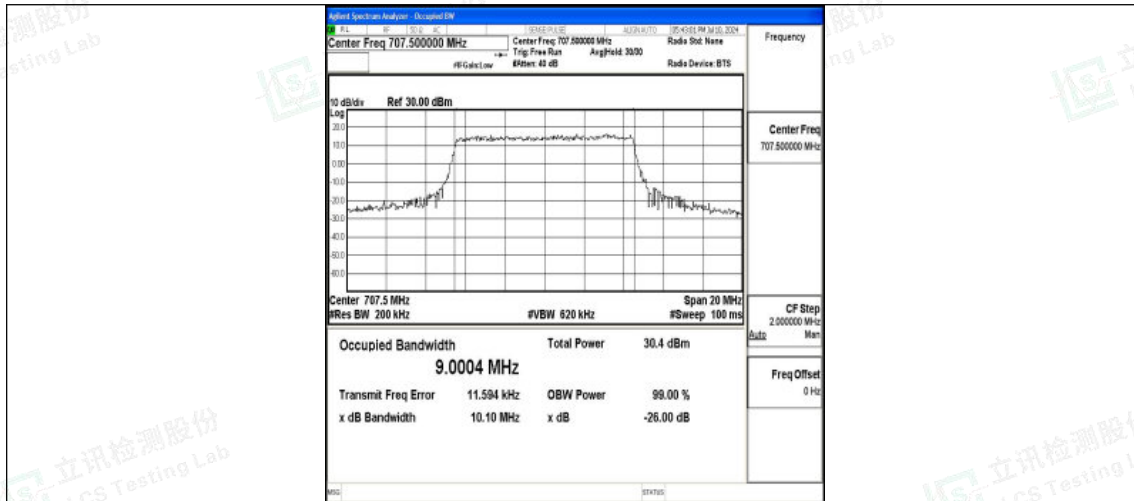


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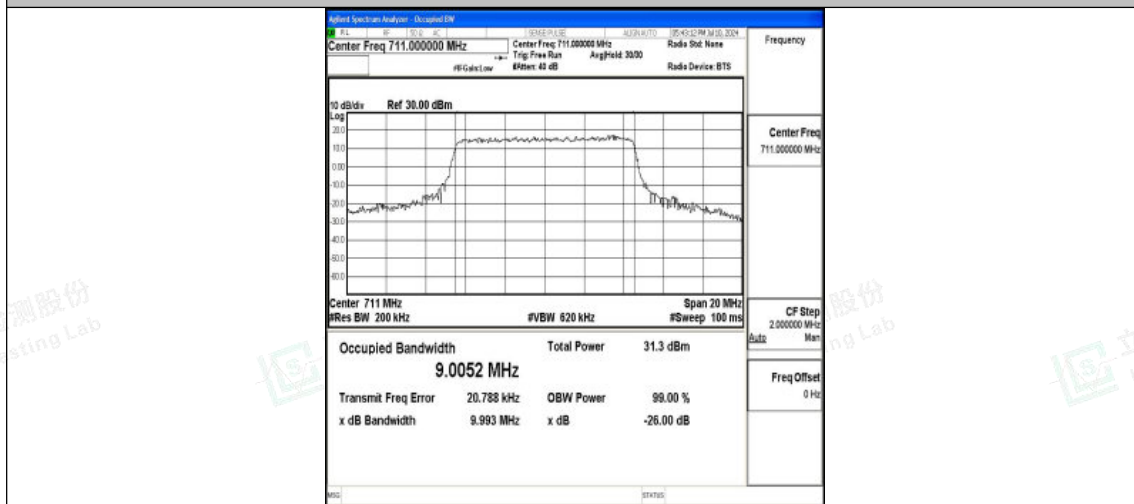
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

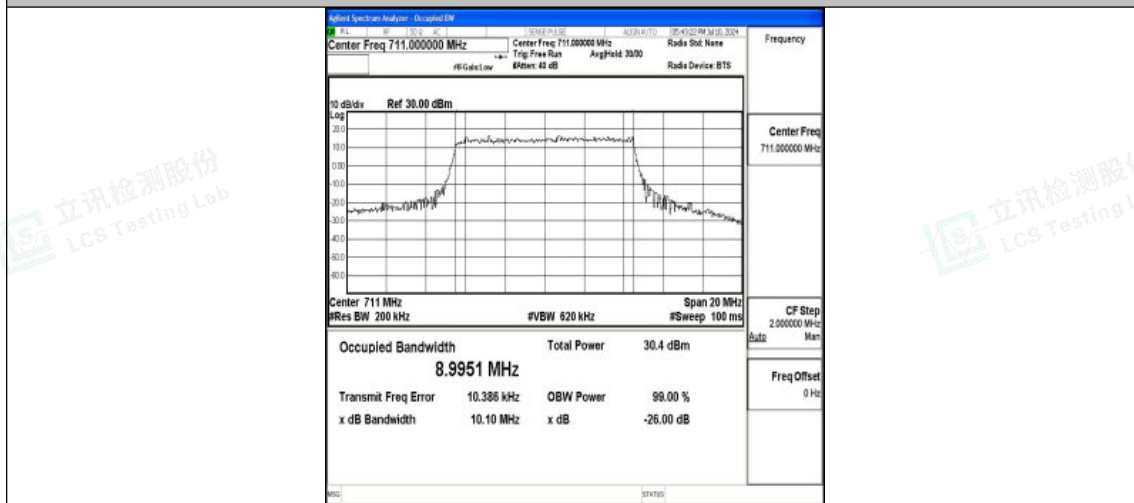
Scan code to check authenticity



## Band12-10MHz-16QAM-23095-50RB#0-PASS



## Band12-10MHz-QPSK-23130-50RB#0-PASS



## Band12-10MHz-16QAM-23130-50RB#0-PASS



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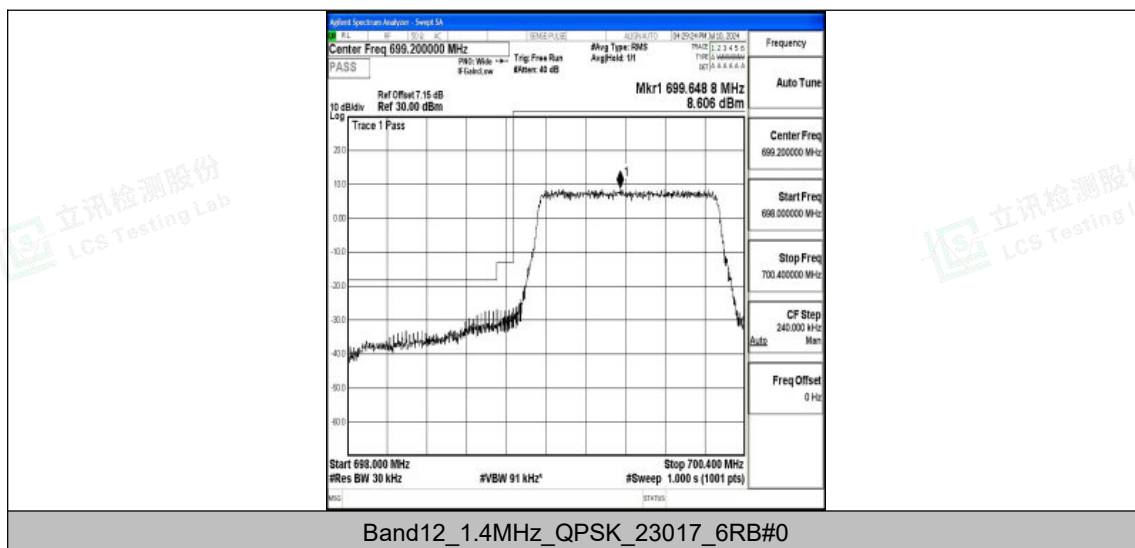
Scan code to check authenticity

## I.4 Band Edge

## Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Peak Frenquency | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-----------------|-------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 698.86          | -27.31      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 698.89          | -29.67      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 716.13          | -27.68      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 716.13          | -28.91      | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 15RB#0           | 699.00          | -24.87      | PASS    |
| Band12 | 3MHz      | 16QAM      | 23025   | 15RB#0           | 698.99          | -25.93      | PASS    |
| Band12 | 3MHz      | QPSK       | 23165   | 15RB#0           | 716.00          | -24.43      | PASS    |
| Band12 | 3MHz      | 16QAM      | 23165   | 15RB#0           | 716.00          | -24.45      | PASS    |
| Band12 | 5MHz      | QPSK       | 23035   | 25RB#0           | 698.84          | -34.50      | PASS    |
| Band12 | 5MHz      | 16QAM      | 23035   | 25RB#0           | 698.87          | -34.48      | PASS    |
| Band12 | 5MHz      | QPSK       | 23155   | 25RB#0           | 716.11          | -36.21      | PASS    |
| Band12 | 5MHz      | 16QAM      | 23155   | 25RB#0           | 716.11          | -33.93      | PASS    |
| Band12 | 10MHz     | QPSK       | 23060   | 50RB#0           | 698.57          | -37.66      | PASS    |
| Band12 | 10MHz     | 16QAM      | 23060   | 50RB#0           | 698.86          | -39.00      | PASS    |
| Band12 | 10MHz     | QPSK       | 23130   | 50RB#0           | 716.11          | -40.70      | PASS    |
| Band12 | 10MHz     | 16QAM      | 23130   | 50RB#0           | 716.13          | -41.28      | PASS    |

## Test Graphs

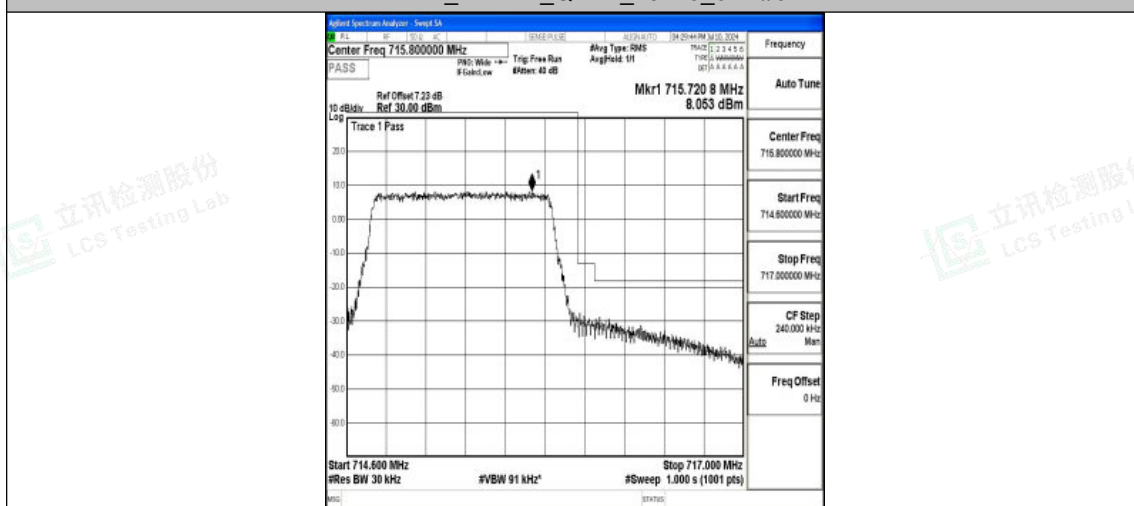
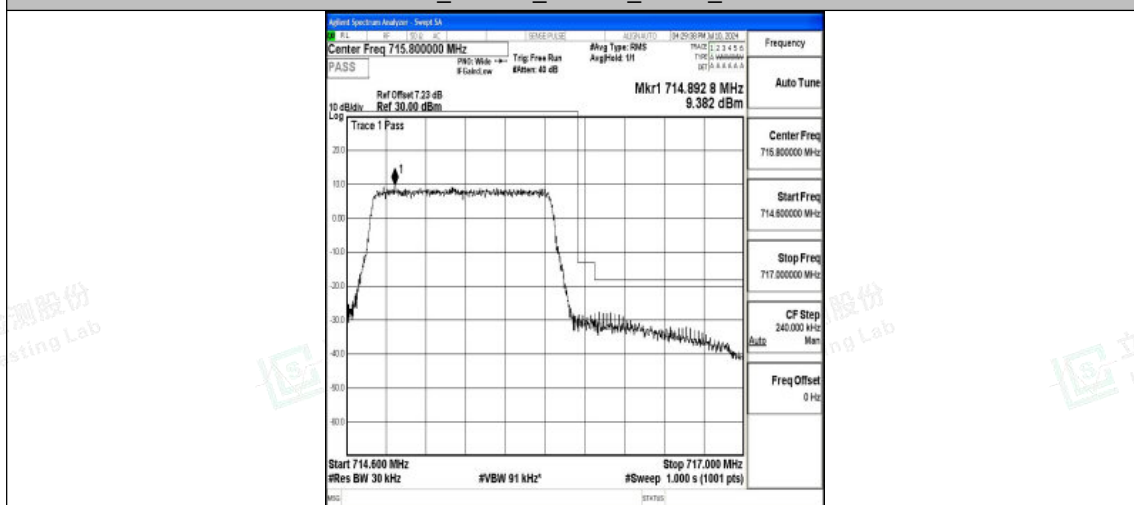
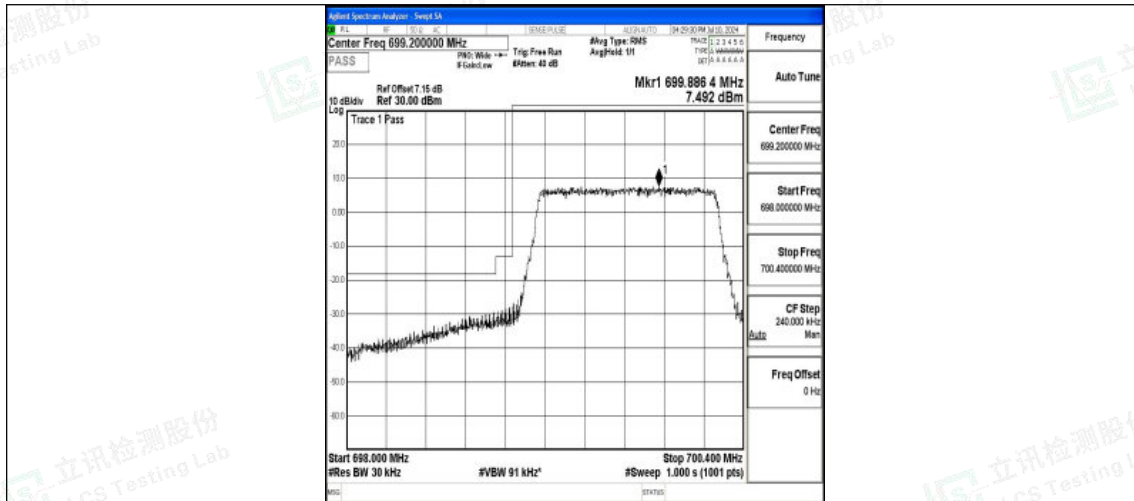


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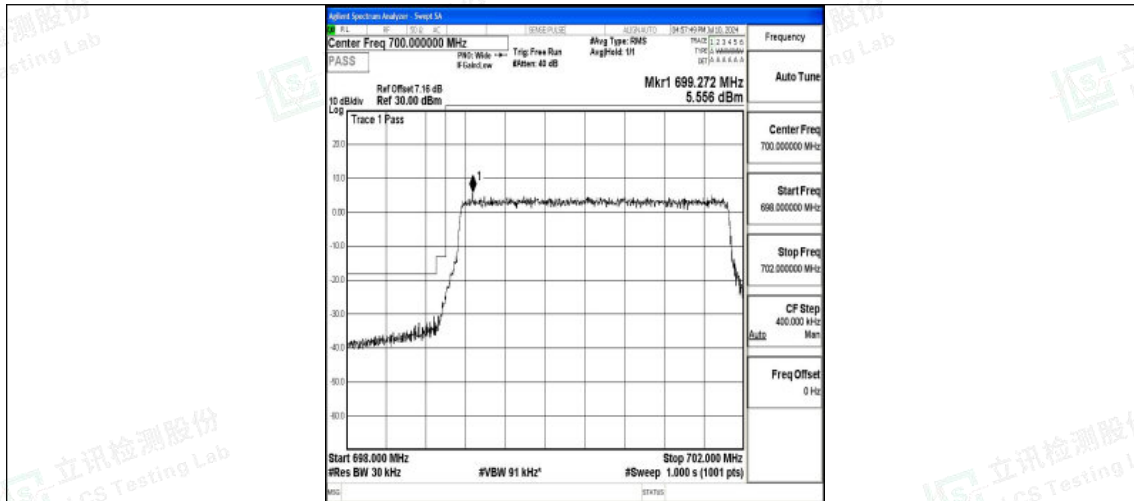


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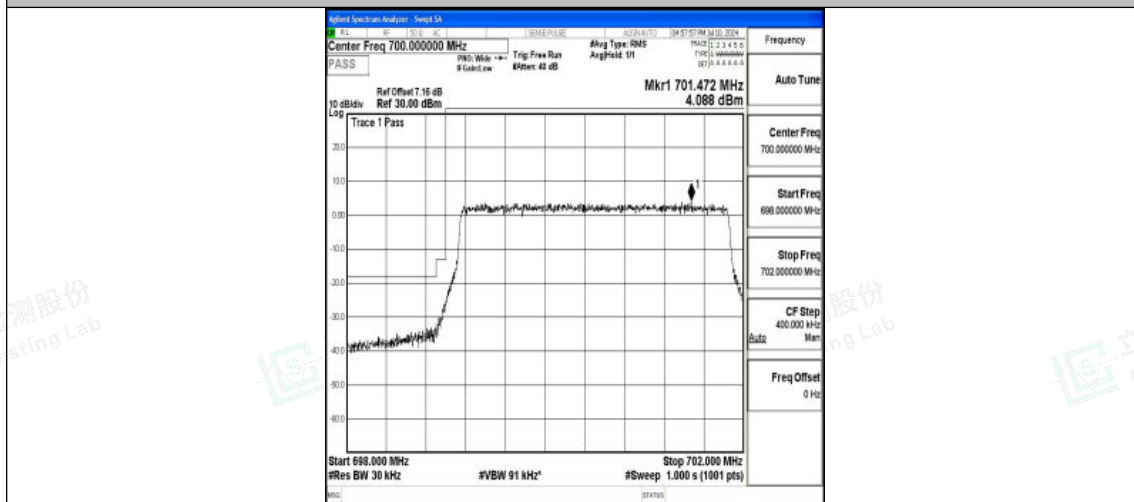
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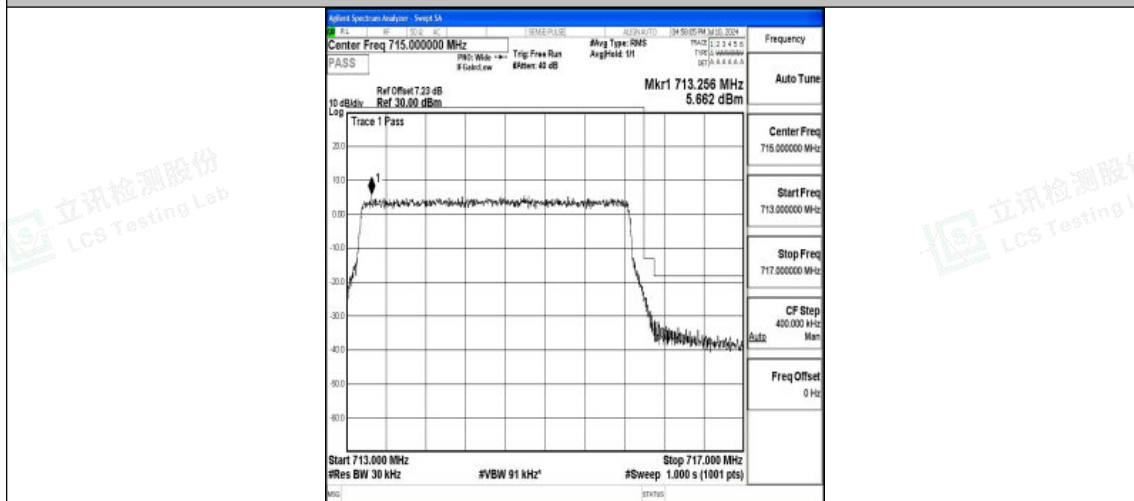
Scan code to check authenticity



Band12\_3MHz\_QPSK\_23025\_15RB#0



Band12\_3MHz\_16QAM\_23025\_15RB#0



Band12\_3MHz\_QPSK\_23165\_15RB#0

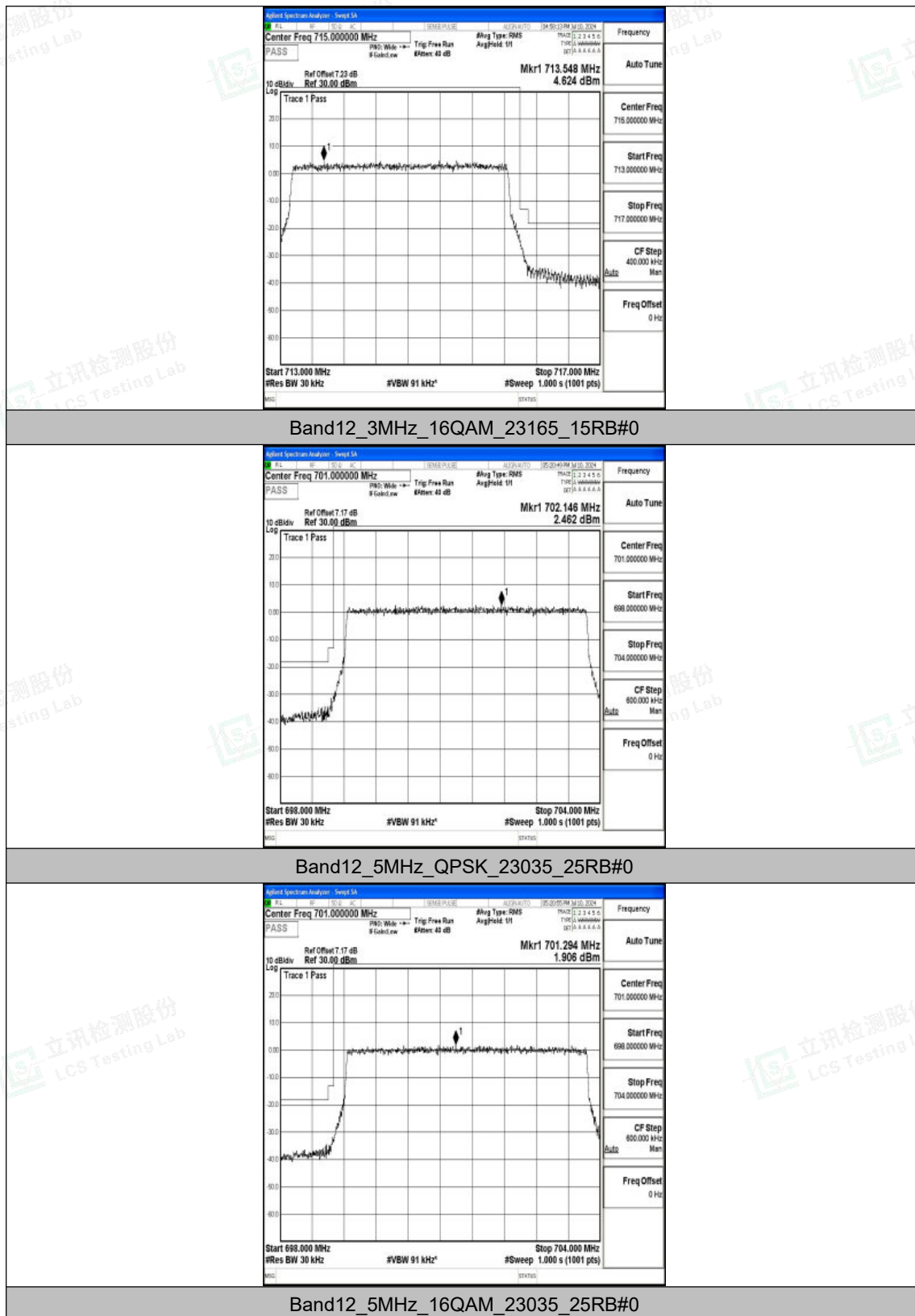


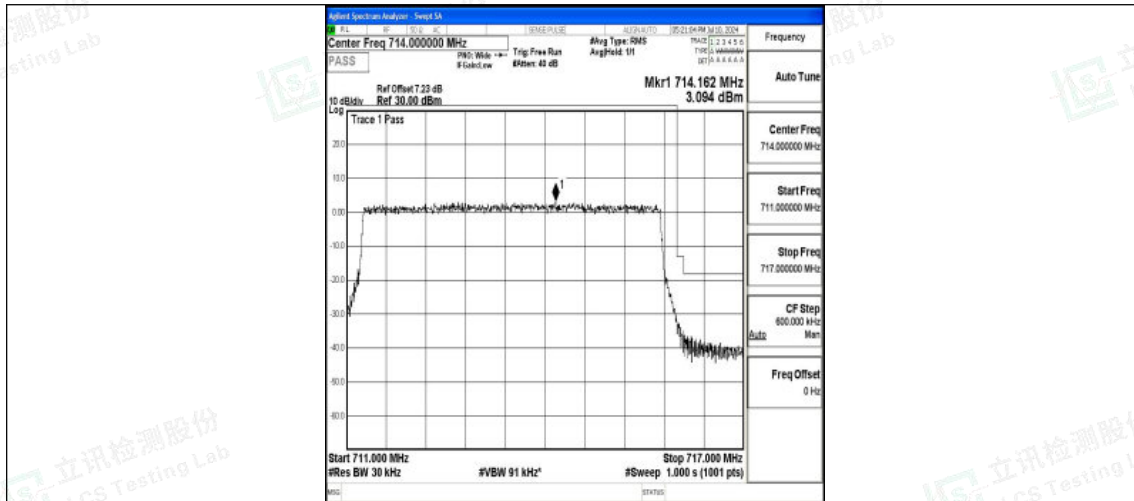
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Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

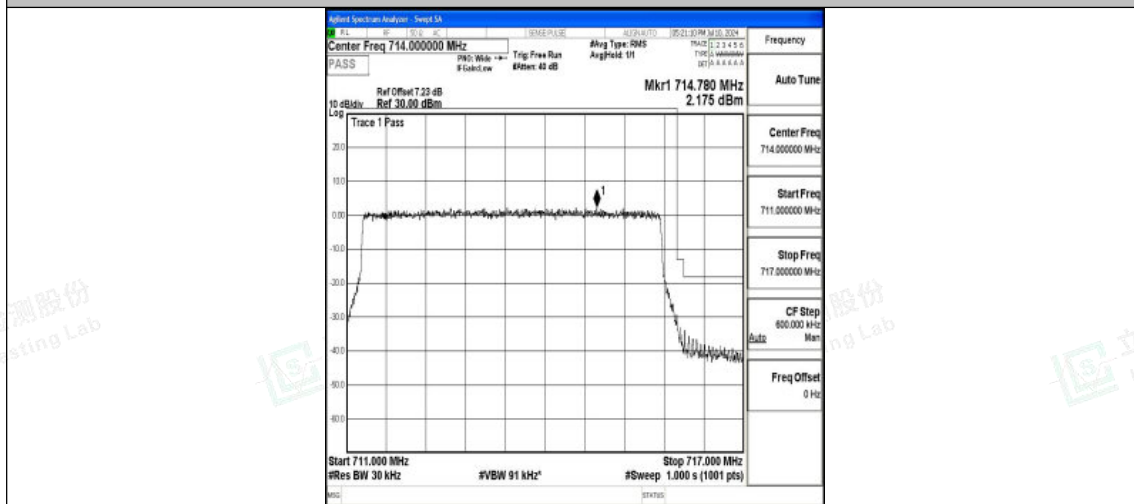
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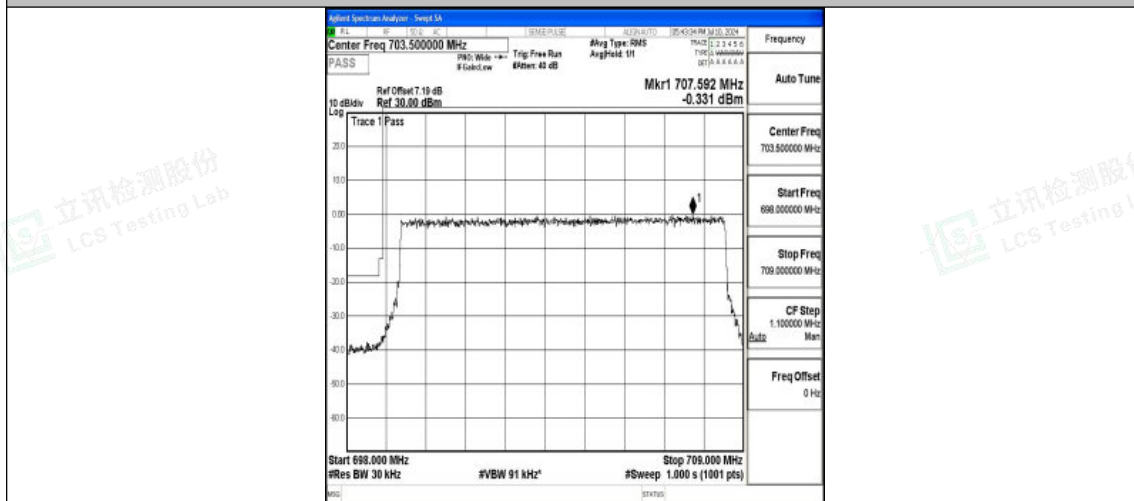




Band12\_5MHz\_QPSK\_23155\_25RB#0



Band12\_5MHz\_16QAM\_23155\_25RB#0



Band12\_10MHz\_QPSK\_23060\_50RB#0

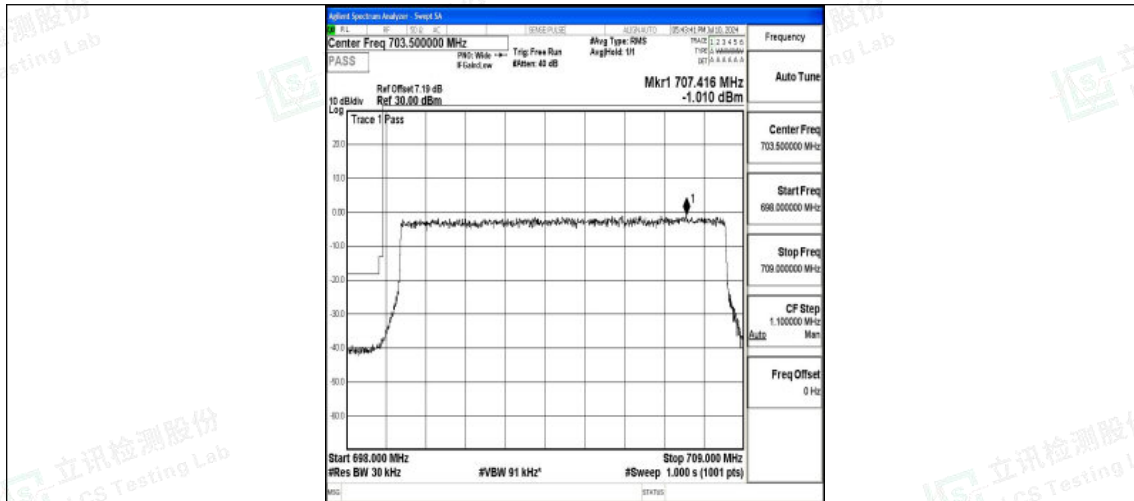


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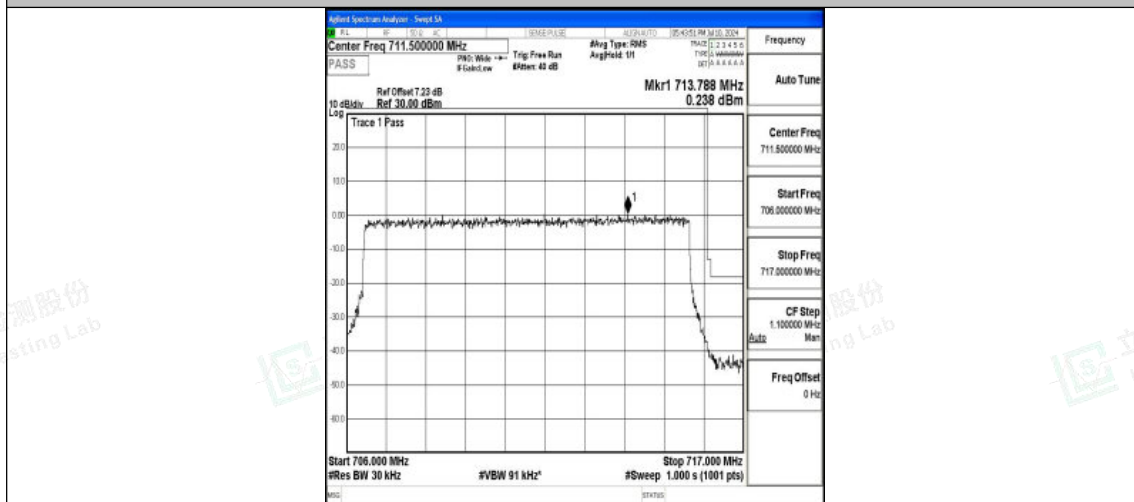
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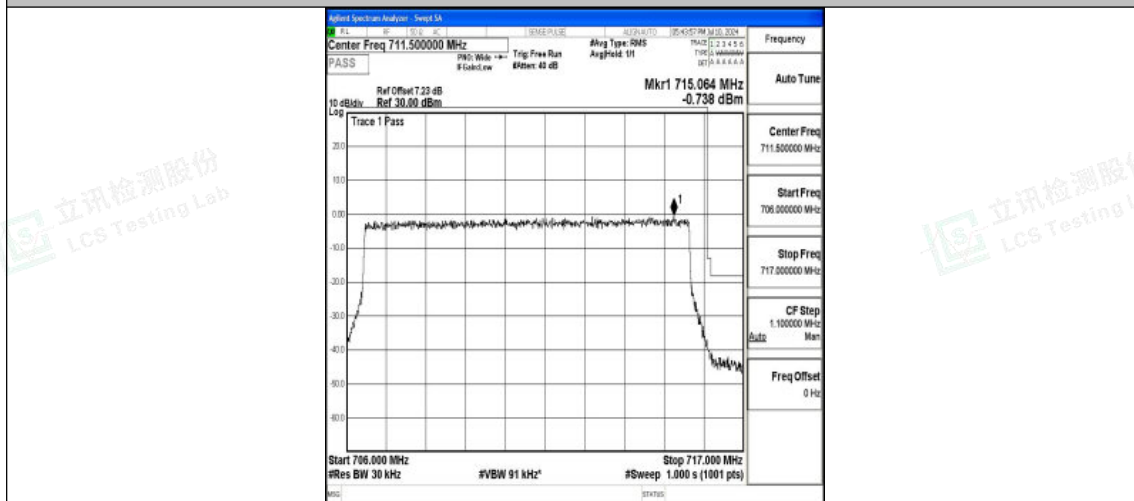
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Band12\_10MHz\_16QAM\_23060\_50RB#0



Band12\_10MHz\_QPSK\_23130\_50RB#0



Band12\_10MHz\_16QAM\_23130\_50RB#0



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## I.5 Conducted Spurious Emission

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-----------------|--------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 0.009~0.15      | -58.05       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 0.15~30         | -51.72       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 30~1000         | -47.27       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 1000~3000       | -45.05       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 3000~10000      | -44.23       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 0.009~0.15      | -57.33       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 0.15~30         | -53.08       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 30~1000         | -47.35       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 1000~3000       | -42.80       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 3000~10000      | -44.02       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 0.009~0.15      | -57.81       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 0.15~30         | -51.90       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 30~1000         | -43.57       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 1000~3000       | -44.64       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 3000~10000      | -44.13       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 0.009~0.15      | -57.81       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 0.15~30         | -51.84       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 30~1000         | -43.13       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 1000~3000       | -43.98       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 3000~10000      | -44.21       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 0.009~0.15      | -57.37       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 0.15~30         | -53.39       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 30~1000         | -44.91       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 1000~3000       | -44.45       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 3000~10000      | -44.01       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#0            | 0.009~0.15      | -58.35       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#0            | 0.15~30         | -51.31       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#0            | 30~1000         | -45.30       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#0            | 1000~3000       | -43.63       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#0            | 3000~10000      | -44.03       | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 1RB#0            | 0.009~0.15      | -56.45       | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 1RB#0            | 0.15~30         | -54.45       | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 1RB#0            | 30~1000         | -46.99       | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 1RB#0            | 1000~3000       | -44.99       | PASS    |



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|        |      |       |       |       |            |        |      |
|--------|------|-------|-------|-------|------------|--------|------|
| Band12 | 3MHz | QPSK  | 23025 | 1RB#0 | 3000~10000 | -43.88 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0 | 0.009~0.15 | -57.26 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0 | 0.15~30    | -50.87 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0 | 30~1000    | -46.92 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0 | 1000~3000  | -44.42 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0 | 3000~10000 | -44.20 | PASS |
| Band12 | 3MHz | QPSK  | 23095 | 1RB#0 | 0.009~0.15 | -57.39 | PASS |
| Band12 | 3MHz | QPSK  | 23095 | 1RB#0 | 0.15~30    | -50.49 | PASS |
| Band12 | 3MHz | QPSK  | 23095 | 1RB#0 | 30~1000    | -48.38 | PASS |
| Band12 | 3MHz | QPSK  | 23095 | 1RB#0 | 1000~3000  | -45.27 | PASS |
| Band12 | 3MHz | QPSK  | 23095 | 1RB#0 | 3000~10000 | -44.03 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0 | 0.009~0.15 | -57.48 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0 | 0.15~30    | -53.73 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0 | 30~1000    | -50.99 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0 | 1000~3000  | -45.83 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0 | 3000~10000 | -44.07 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 1RB#0 | 0.009~0.15 | -58.90 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 1RB#0 | 0.15~30    | -55.47 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 1RB#0 | 30~1000    | -50.29 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 1RB#0 | 1000~3000  | -44.78 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 1RB#0 | 3000~10000 | -44.06 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0 | 0.009~0.15 | -56.09 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0 | 0.15~30    | -48.70 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0 | 30~1000    | -49.16 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0 | 1000~3000  | -44.37 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0 | 3000~10000 | -43.93 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#0 | 0.009~0.15 | -56.41 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#0 | 0.15~30    | -50.91 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#0 | 30~1000    | -57.92 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#0 | 1000~3000  | -44.43 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#0 | 3000~10000 | -44.04 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0 | 0.009~0.15 | -57.17 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0 | 0.15~30    | -55.22 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0 | 30~1000    | -58.12 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0 | 1000~3000  | -44.88 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0 | 3000~10000 | -44.15 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#0 | 0.009~0.15 | -58.25 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#0 | 0.15~30    | -53.62 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#0 | 30~1000    | -59.57 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#0 | 1000~3000  | -45.23 | PASS |



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|        |       |       |       |       |            |        |      |
|--------|-------|-------|-------|-------|------------|--------|------|
| Band12 | 5MHz  | QPSK  | 23095 | 1RB#0 | 3000~10000 | -43.57 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#0 | 0.009~0.15 | -56.30 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#0 | 0.15~30    | -53.69 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#0 | 30~1000    | -59.54 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#0 | 1000~3000  | -46.06 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#0 | 3000~10000 | -43.68 | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 1RB#0 | 0.009~0.15 | -59.75 | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 1RB#0 | 0.15~30    | -50.52 | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 1RB#0 | 30~1000    | -58.72 | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 1RB#0 | 1000~3000  | -43.95 | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 1RB#0 | 3000~10000 | -44.33 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#0 | 0.009~0.15 | -59.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#0 | 0.15~30    | -53.11 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#0 | 30~1000    | -60.12 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#0 | 1000~3000  | -44.89 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#0 | 3000~10000 | -43.83 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#0 | 0.009~0.15 | -57.90 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#0 | 0.15~30    | -53.59 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#0 | 30~1000    | -62.32 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#0 | 1000~3000  | -44.07 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#0 | 3000~10000 | -44.07 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0 | 0.009~0.15 | -58.02 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0 | 0.15~30    | -51.51 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0 | 30~1000    | -61.85 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0 | 1000~3000  | -44.18 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0 | 3000~10000 | -44.21 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#0 | 0.009~0.15 | -59.95 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#0 | 0.15~30    | -51.71 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#0 | 30~1000    | -62.31 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#0 | 1000~3000  | -44.87 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#0 | 3000~10000 | -44.28 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0 | 0.009~0.15 | -56.00 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0 | 0.15~30    | -51.33 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0 | 30~1000    | -62.21 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0 | 1000~3000  | -44.55 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0 | 3000~10000 | -44.28 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#0 | 0.009~0.15 | -56.12 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#0 | 0.15~30    | -51.49 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#0 | 30~1000    | -61.71 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#0 | 1000~3000  | -41.44 | PASS |



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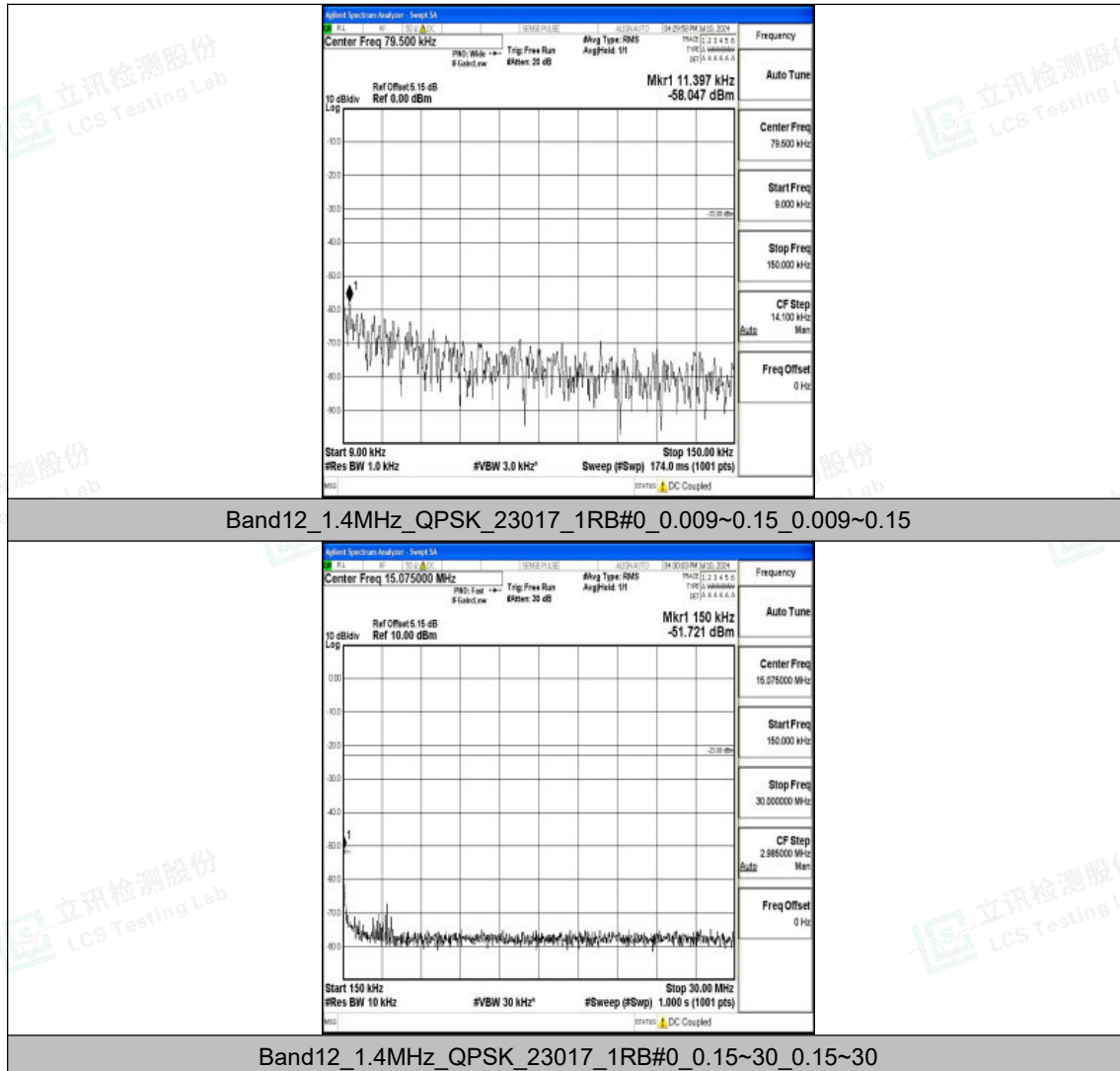
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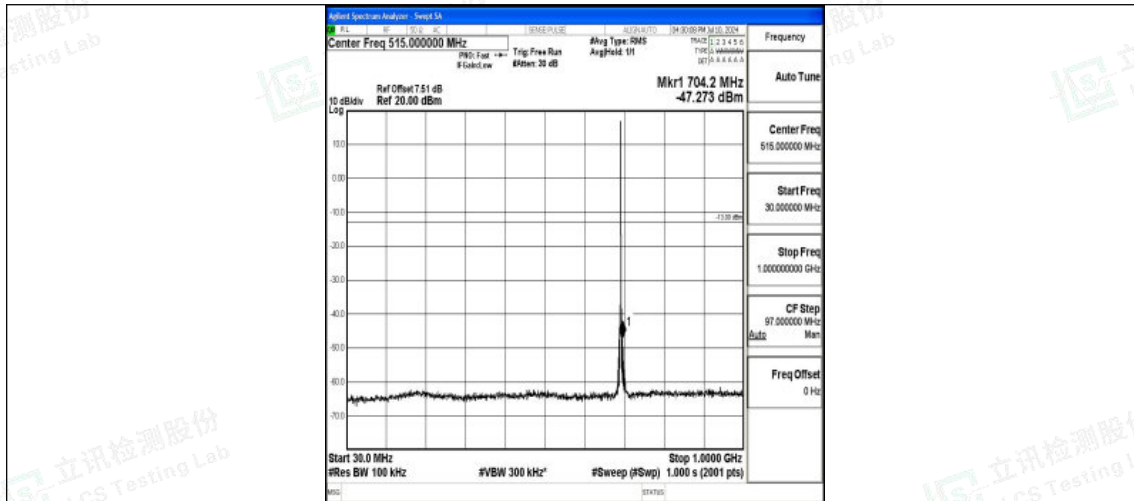
Scan code to check authenticity



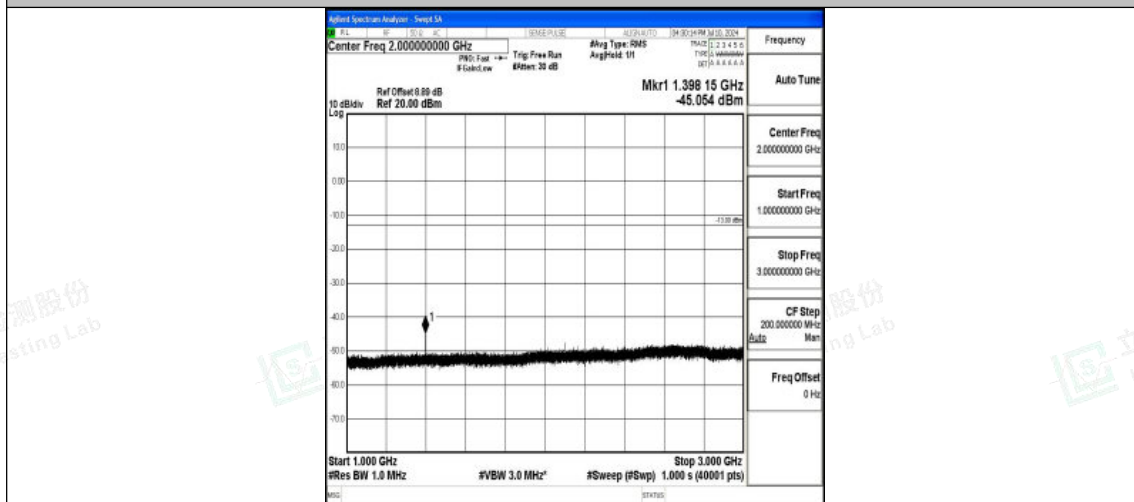
|        |       |       |       |       |            |        |      |
|--------|-------|-------|-------|-------|------------|--------|------|
| Band12 | 10MHz | QPSK  | 23130 | 1RB#0 | 3000~10000 | -44.26 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0 | 0.009~0.15 | -57.04 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0 | 0.15~30    | -53.40 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0 | 30~1000    | -62.00 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0 | 1000~3000  | -45.21 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0 | 3000~10000 | -43.47 | PASS |

## Test Graphs

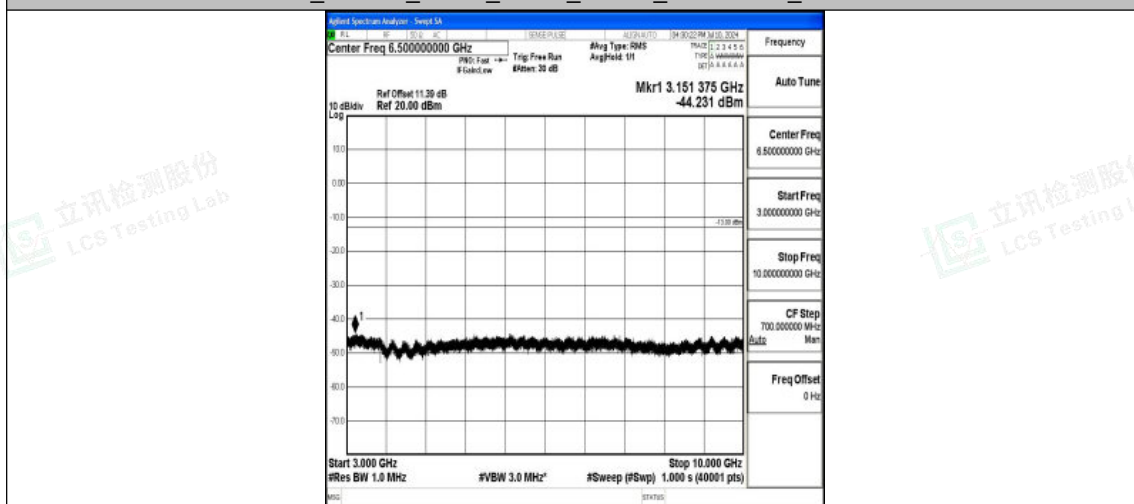




Band12\_1.4MHz\_QPSK\_23017\_1RB#0\_30~1000\_30~1000



Band12\_1.4MHz\_QPSK\_23017\_1RB#0\_1000~3000\_1000~3000



Band12\_1.4MHz\_QPSK\_23017\_1RB#0\_3000~10000\_3000~10000

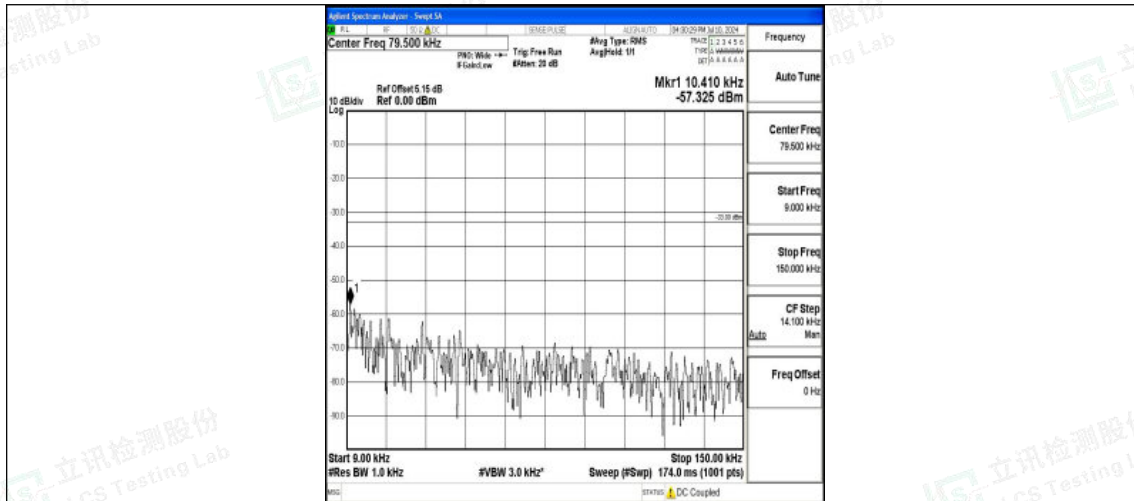


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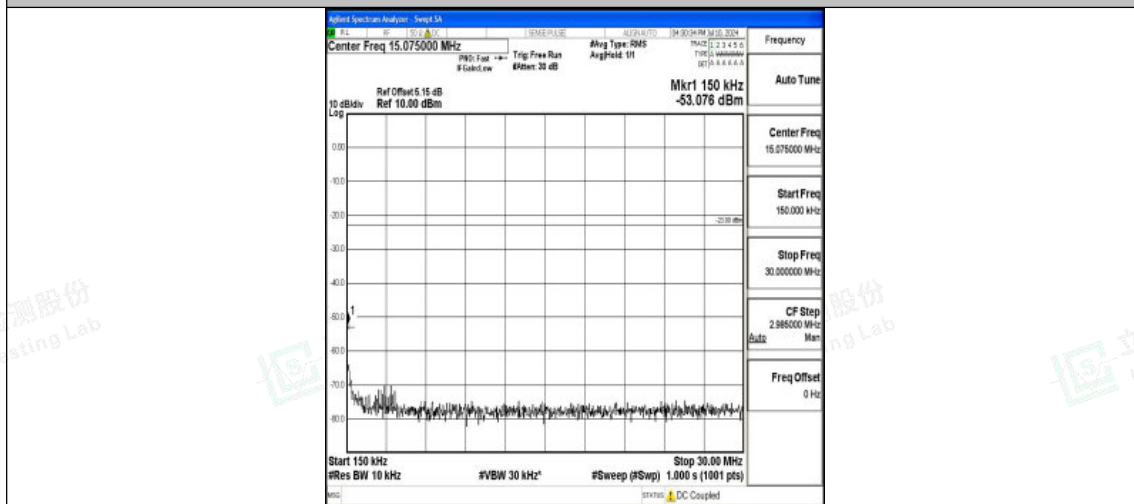
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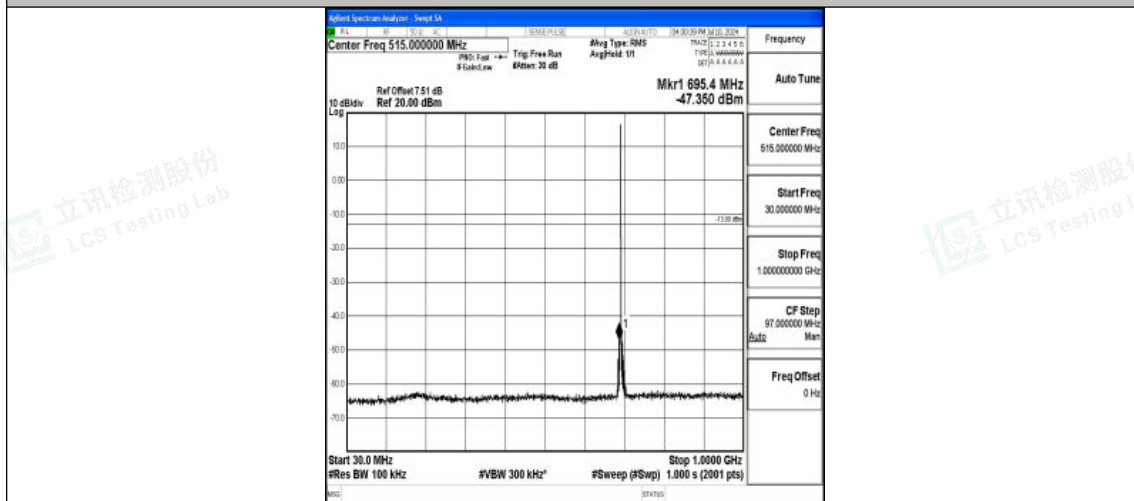
Scan code to check authenticity



Band12\_1.4MHz\_16QAM\_23017\_1RB#0\_0.009~0.15\_0.009~0.15



Band12\_1.4MHz\_16QAM\_23017\_1RB#0\_0.15~30\_0.15~30



Band12\_1.4MHz\_16QAM\_23017\_1RB#0\_30~1000\_30~1000

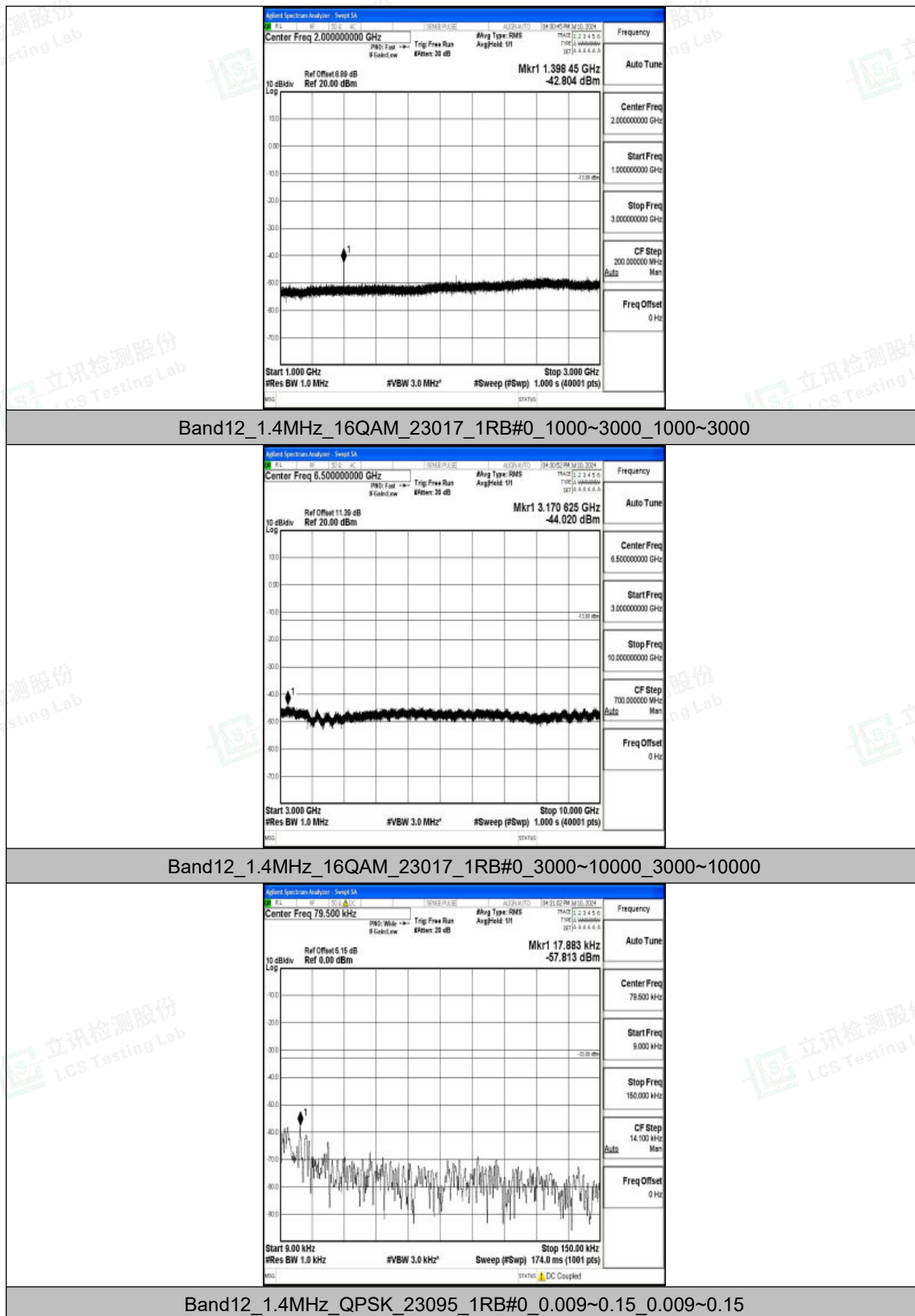


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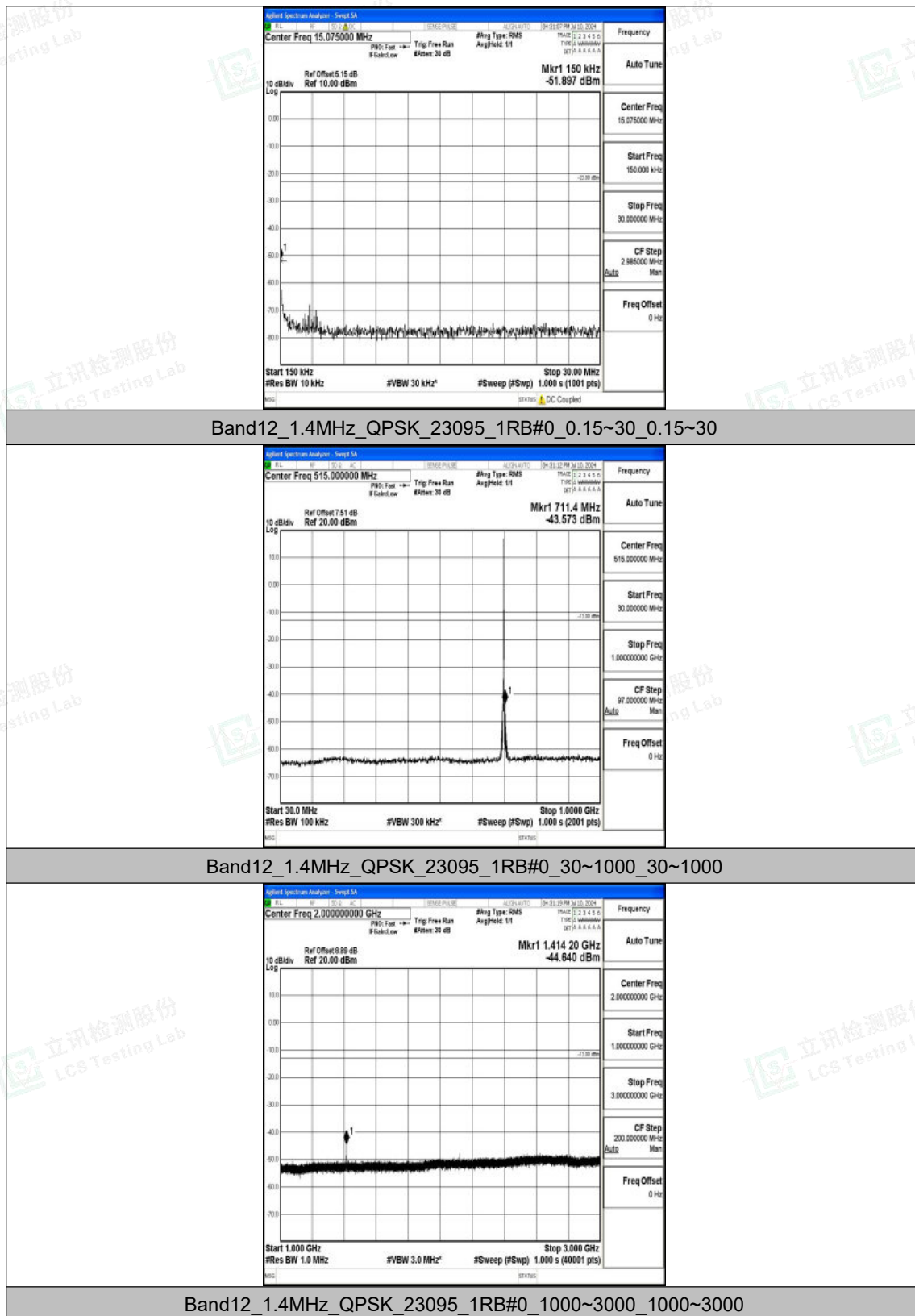


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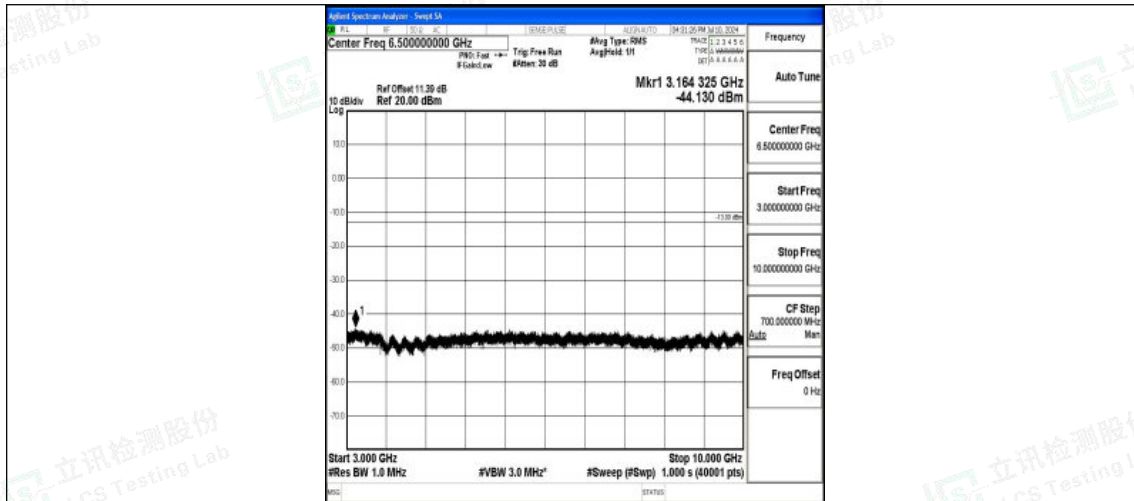


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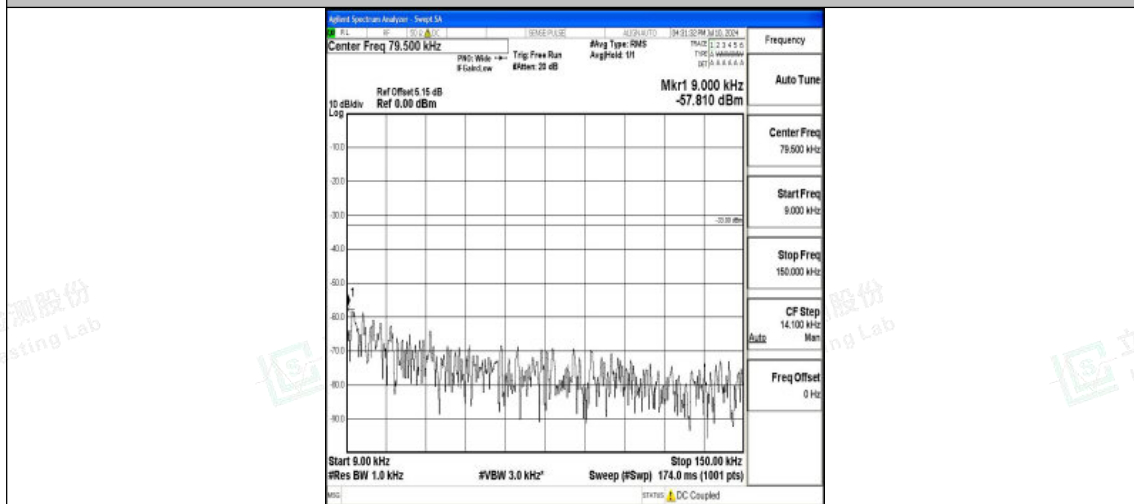
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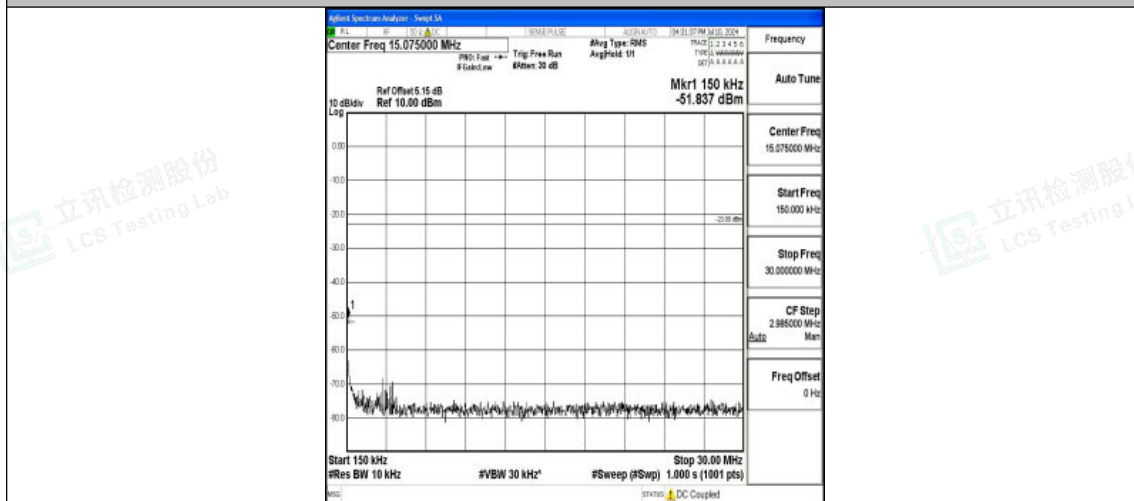
Scan code to check authenticity



Band12\_1.4MHz\_QPSK\_23095\_1RB#0\_3000~10000\_3000~10000



Band12\_1.4MHz\_16QAM\_23095\_1RB#0\_0.009~0.15\_0.009~0.15



Band12\_1.4MHz\_16QAM\_23095\_1RB#0\_0.15~30\_0.15~30



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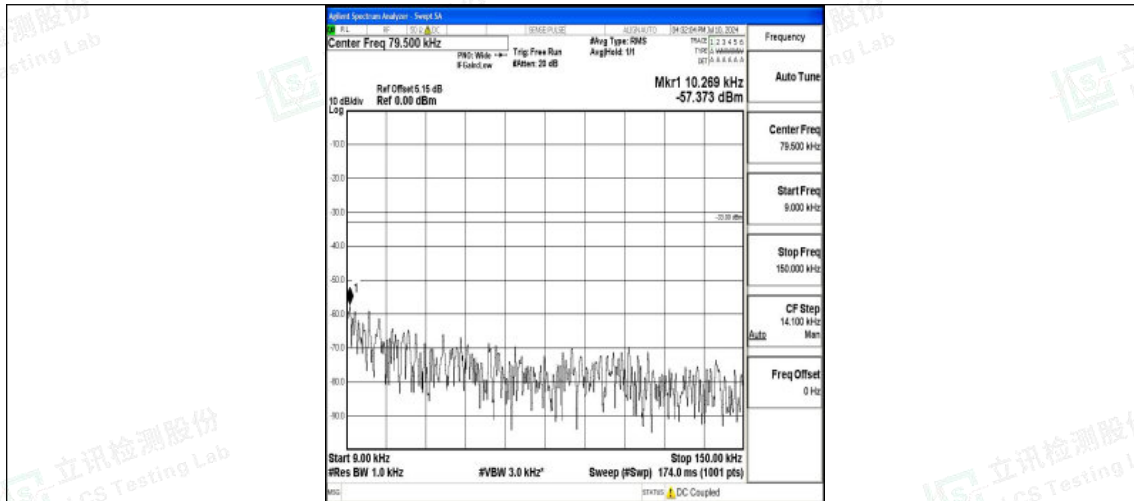


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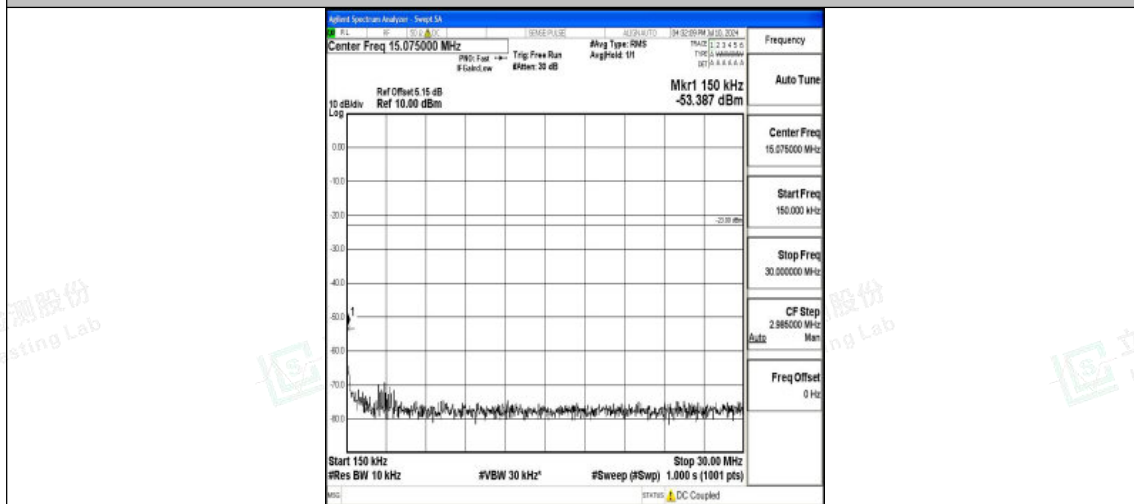
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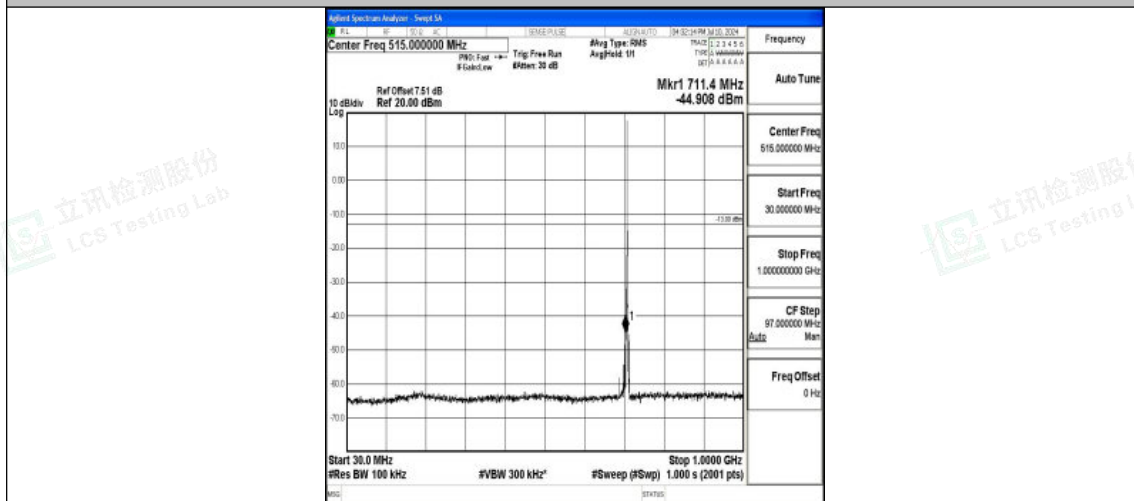
Scan code to check authenticity



Band12\_1.4MHz\_QPSK\_23173\_1RB#0\_0.009~0.15\_0.009~0.15



Band12\_1.4MHz\_QPSK\_23173\_1RB#0\_0.15~30\_0.15~30



Band12\_1.4MHz\_QPSK\_23173\_1RB#0\_30~1000\_30~1000



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