



## Appendix B: Test Data for E-UTRA Band 4

**Product Name: 4G module**

**Test Model: TM18NA**

### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 23.8° C    |
| Relative Humidity: | 52.1%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Eason Zhou |
| 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  
Scan code to check authenticity



## B.1 Conducted Output Power Data

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#0            | 19.93       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#0            | 20.14       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#2            | 19.86       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#2            | 20.04       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#5            | 19.73       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#5            | 19.41       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 3RB#0            | 19.95       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 3RB#0            | 18.87       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 3RB#1            | 19.94       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 3RB#1            | 18.86       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 3RB#3            | 19.93       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 3RB#3            | 18.75       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 19.03       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 18.42       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#0            | 20.63       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#0            | 19.31       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#2            | 20.60       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#2            | 19.25       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#5            | 20.67       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#5            | 19.35       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 3RB#0            | 20.73       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 3RB#0            | 19.63       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 3RB#1            | 20.71       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 3RB#1            | 20.07       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 3RB#3            | 20.69       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 3RB#3            | 20.12       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 19.83       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 19.31       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#0            | 20.61       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#0            | 20.25       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#2            | 20.67       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#2            | 20.21       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#5            | 20.62       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#5            | 20.35       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 3RB#0            | 20.86       | PASS    |



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

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

Scan code to check authenticity



|       |        |       |       |        |       |      |
|-------|--------|-------|-------|--------|-------|------|
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#0  | 19.86 | PASS |
| Band4 | 1.4MHz | QPSK  | 20393 | 3RB#1  | 20.86 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#1  | 19.87 | PASS |
| Band4 | 1.4MHz | QPSK  | 20393 | 3RB#3  | 20.85 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#3  | 19.82 | PASS |
| Band4 | 1.4MHz | QPSK  | 20393 | 6RB#0  | 19.95 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0  | 19.09 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#0  | 19.89 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 1RB#0  | 19.33 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#8  | 19.88 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 1RB#8  | 19.20 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#14 | 19.78 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 1RB#14 | 19.23 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 8RB#0  | 19.17 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 8RB#0  | 18.62 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 8RB#4  | 19.18 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 8RB#4  | 18.68 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 8RB#7  | 19.09 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 8RB#7  | 18.51 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | 19.03 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 15RB#0 | 18.38 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#0  | 20.49 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 1RB#0  | 19.14 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#8  | 20.57 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 1RB#8  | 19.22 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#14 | 20.74 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 1RB#14 | 19.43 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 8RB#0  | 19.72 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 8RB#0  | 19.35 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 8RB#4  | 19.71 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 8RB#4  | 19.30 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 8RB#7  | 19.87 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 8RB#7  | 19.37 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | 19.64 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 15RB#0 | 18.96 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#0  | 20.71 | PASS |
| Band4 | 3MHz   | 16QAM | 20385 | 1RB#0  | 20.30 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#8  | 20.72 | PASS |
| Band4 | 3MHz   | 16QAM | 20385 | 1RB#8  | 20.19 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#14 | 20.69 | PASS |



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

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

Scan code to check authenticity



|       |      |       |       |         |       |      |
|-------|------|-------|-------|---------|-------|------|
| Band4 | 3MHz | 16QAM | 20385 | 1RB#14  | 20.23 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 8RB#0   | 19.95 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#0   | 19.51 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 8RB#4   | 19.96 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#4   | 19.38 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 8RB#7   | 19.95 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#7   | 19.29 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 15RB#0  | 19.86 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0  | 19.27 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#0   | 20.08 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#0   | 18.75 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#12  | 19.97 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#12  | 18.59 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#24  | 19.84 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#24  | 18.46 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 12RB#0  | 19.10 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#0  | 18.44 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 12RB#6  | 19.12 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#6  | 18.42 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 12RB#13 | 18.94 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#13 | 18.26 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0  | 18.98 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0  | 18.44 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#0   | 20.30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#0   | 20.18 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#12  | 20.47 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#12  | 20.24 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#24  | 21.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#24  | 20.06 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 12RB#0  | 19.75 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#0  | 19.03 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 12RB#6  | 19.75 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#6  | 19.18 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 12RB#13 | 19.96 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#13 | 19.17 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0  | 19.80 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0  | 19.05 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#0   | 20.87 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#0   | 19.76 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#12  | 20.80 | PASS |



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

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

Scan code to check authenticity



|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#12  | 19.74 | PASS |
| Band4 | 5MHz  | QPSK  | 20375 | 1RB#24  | 20.78 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#24  | 19.63 | PASS |
| Band4 | 5MHz  | QPSK  | 20375 | 12RB#0  | 19.96 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 12RB#0  | 19.23 | PASS |
| Band4 | 5MHz  | QPSK  | 20375 | 12RB#6  | 20.01 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 12RB#6  | 19.11 | PASS |
| Band4 | 5MHz  | QPSK  | 20375 | 12RB#13 | 20.00 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 12RB#13 | 19.08 | PASS |
| Band4 | 5MHz  | QPSK  | 20375 | 25RB#0  | 19.96 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 25RB#0  | 19.27 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#0   | 19.97 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0   | 19.37 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#24  | 19.63 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#24  | 19.07 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#49  | 19.57 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#49  | 19.07 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 25RB#0  | 19.06 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#0  | 18.24 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 25RB#12 | 18.98 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#12 | 18.31 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 25RB#25 | 18.83 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#25 | 18.15 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0  | 18.86 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0  | 18.21 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#0   | 20.26 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0   | 19.63 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#24  | 20.63 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#24  | 19.99 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#49  | 20.94 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#49  | 20.28 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 25RB#0  | 19.67 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#0  | 19.09 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 25RB#12 | 19.52 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#12 | 19.04 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 25RB#25 | 19.94 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#25 | 19.36 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0  | 19.85 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0  | 19.12 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#0   | 20.82 | PASS |



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

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

Scan code to check authenticity



|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0   | 20.98 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#24  | 20.66 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#24  | 20.77 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#49  | 20.76 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#49  | 20.30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 25RB#0  | 19.99 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#0  | 19.41 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 25RB#12 | 19.99 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#12 | 19.45 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 25RB#25 | 20.02 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#25 | 19.24 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0  | 20.01 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0  | 19.25 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#0   | 19.92 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0   | 19.34 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#38  | 19.59 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#38  | 19.07 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#74  | 19.76 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#74  | 19.21 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 38RB#0  | 18.95 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 38RB#0  | 18.95 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 38RB#18 | 18.95 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 38RB#18 | 18.95 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 38RB#37 | 18.95 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 38RB#37 | 18.95 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0  | 18.95 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0  | 18.23 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#0   | 20.38 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0   | 19.72 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#38  | 21.06 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#38  | 20.28 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#74  | 21.33 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#74  | 20.62 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 38RB#0  | 19.74 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 38RB#0  | 19.73 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 38RB#18 | 19.72 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 38RB#18 | 19.72 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 38RB#37 | 19.72 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 38RB#37 | 19.72 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 75RB#0  | 19.71 | PASS |



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

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

Scan code to check authenticity



|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0  | 19.24 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#0   | 20.86 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0   | 20.83 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#38  | 20.74 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#38  | 20.67 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#74  | 20.63 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74  | 20.39 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 38RB#0  | 20.22 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 38RB#0  | 20.08 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 38RB#18 | 19.93 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 38RB#18 | 20.08 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 38RB#37 | 20.12 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 38RB#37 | 20.02 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 75RB#0  | 20.11 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0  | 19.34 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#0   | 20.39 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0   | 19.36 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#49  | 20.09 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#49  | 19.12 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#99  | 20.72 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#99  | 19.64 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 50RB#0  | 18.95 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#0  | 18.31 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 50RB#25 | 18.89 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#25 | 18.31 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 50RB#50 | 19.11 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#50 | 18.49 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | 18.88 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 18.32 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#0   | 19.84 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0   | 19.97 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#49  | 20.59 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#49  | 20.48 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#99  | 21.26 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#99  | 20.92 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 50RB#0  | 19.49 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#0  | 18.79 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 50RB#25 | 19.48 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#25 | 18.79 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 50RB#50 | 20.11 | PASS |



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

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

Scan code to check authenticity



|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band4 | 20MHz | 16QAM | 20175 | 50RB#50 | 19.35 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 19.89 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 19.15 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#0   | 21.06 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0   | 19.79 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#49  | 21.15 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#49  | 19.83 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#99  | 20.94 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99  | 19.57 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 50RB#0  | 20.16 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#0  | 19.63 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 50RB#25 | 20.13 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#25 | 19.62 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 50RB#50 | 20.05 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#50 | 19.55 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 20.08 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 19.42 | PASS |



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

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

Scan code to check authenticity



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

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#0            | 3.59       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#0            | 4.16       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 4.33       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 4.91       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#0            | 3.84       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#0            | 4.30       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 4.74       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 5.35       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#0            | 3.36       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#0            | 3.82       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 4.26       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 4.91       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 1RB#0            | 3.54       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 1RB#0            | 4.23       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 4.34       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 4.99       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 1RB#0            | 4.02       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 1RB#0            | 4.72       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 4.77       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | 5.47       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 1RB#0            | 3.42       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 1RB#0            | 4.14       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | 4.25       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | 4.90       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 1RB#0            | 3.66       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 1RB#0            | 4.37       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | 4.90       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | 5.43       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 1RB#0            | 4.18       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 1RB#0            | 5.02       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | 5.11       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | 5.71       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 1RB#0            | 3.40       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 1RB#0            | 4.24       | 13        | PASS    |



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

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

Scan code to check authenticity



|       |       |       |       |         |      |    |      |
|-------|-------|-------|-------|---------|------|----|------|
| Band4 | 5MHz  | QPSK  | 20375 | 25RB#0  | 4.74 | 13 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 25RB#0  | 5.32 | 13 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#0   | 3.63 | 13 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0   | 4.21 | 13 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0  | 5.00 | 13 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0  | 5.59 | 13 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#0   | 4.25 | 13 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0   | 4.87 | 13 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0  | 5.13 | 13 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0  | 5.75 | 13 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#0   | 3.31 | 13 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0   | 4.19 | 13 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0  | 4.73 | 13 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0  | 5.36 | 13 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#0   | 3.61 | 13 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0   | 4.25 | 13 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0  | 5.32 | 13 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0  | 5.76 | 13 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#0   | 4.25 | 13 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0   | 4.86 | 13 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 75RB#0  | 5.34 | 13 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0  | 5.84 | 13 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#0   | 3.55 | 13 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0   | 4.14 | 13 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 75RB#0  | 5.00 | 13 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0  | 5.46 | 13 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#0   | 3.25 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0   | 4.13 | 13 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | 5.08 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 5.71 | 13 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#0   | 3.96 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0   | 4.87 | 13 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 5.08 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 5.73 | 13 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#0   | 3.57 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0   | 4.16 | 13 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 4.77 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 5.36 | 13 | PASS |



Shenzhen LCS Compliance Testing Laboratory Ltd.

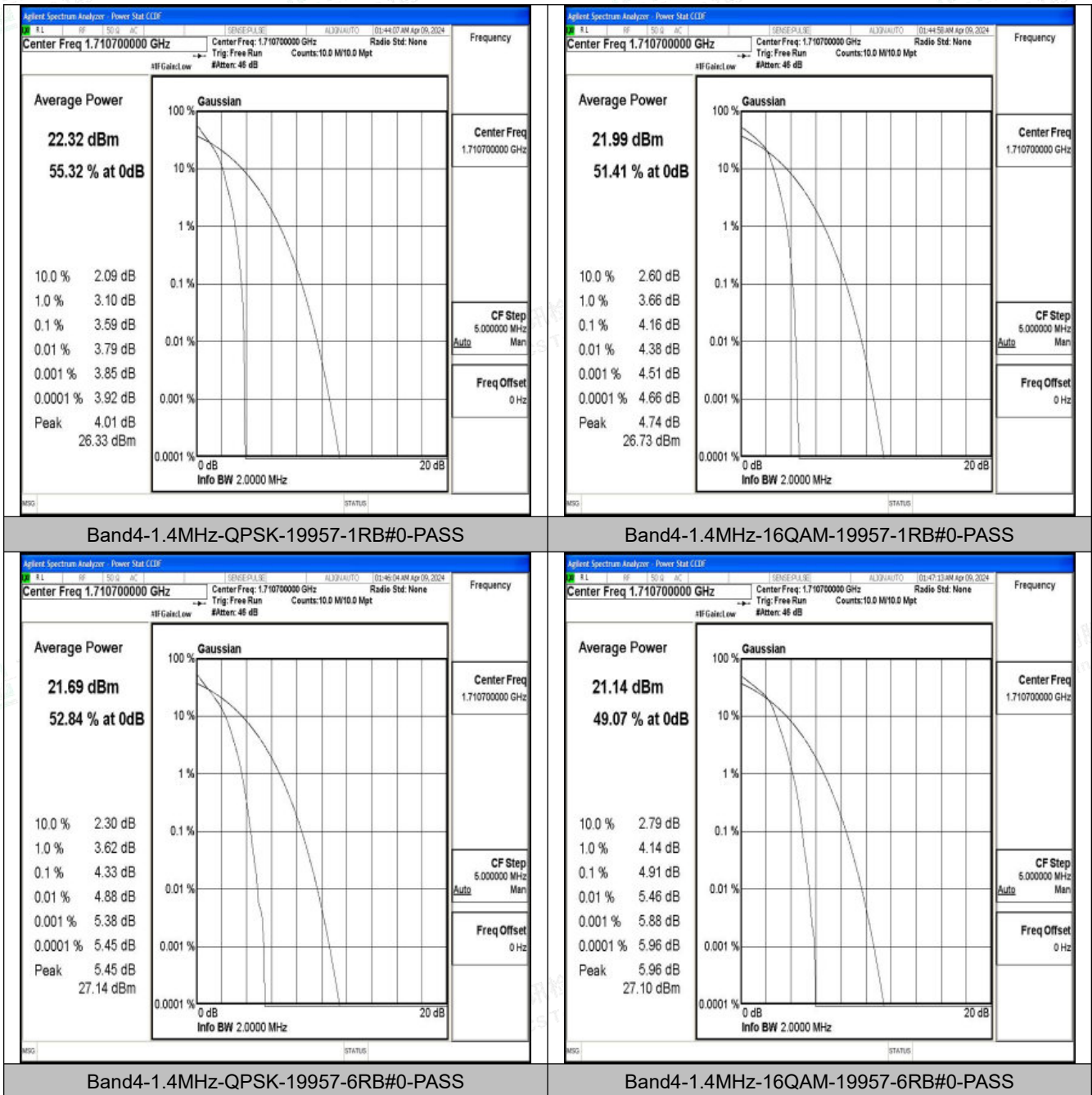
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

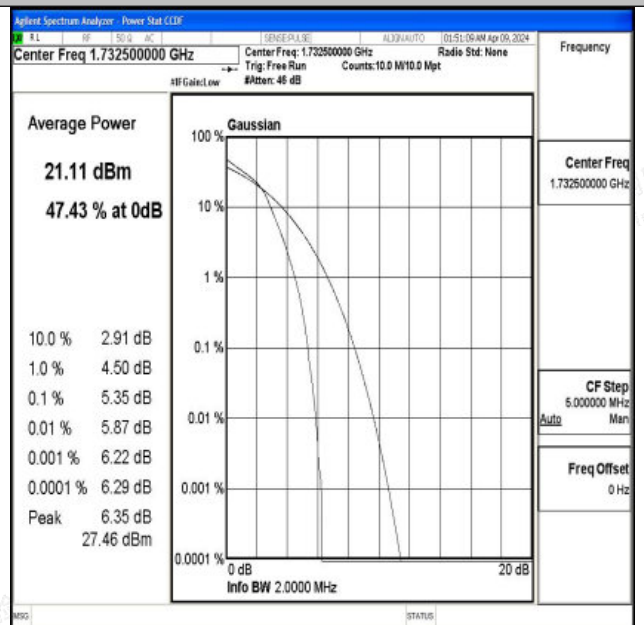
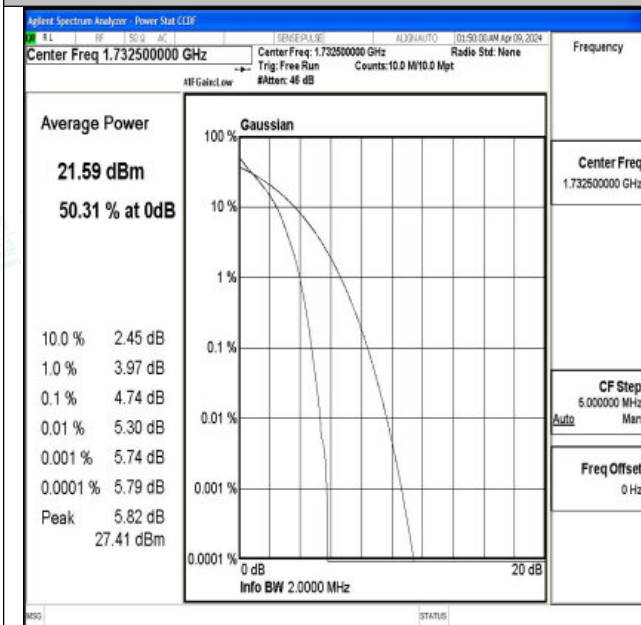
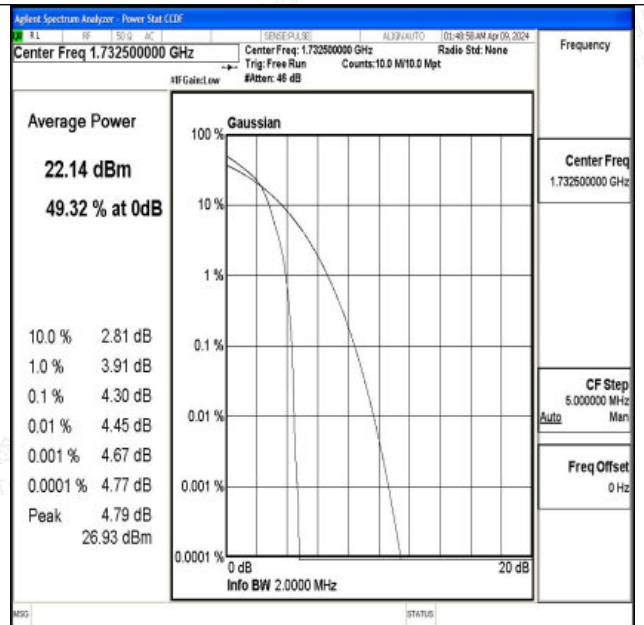
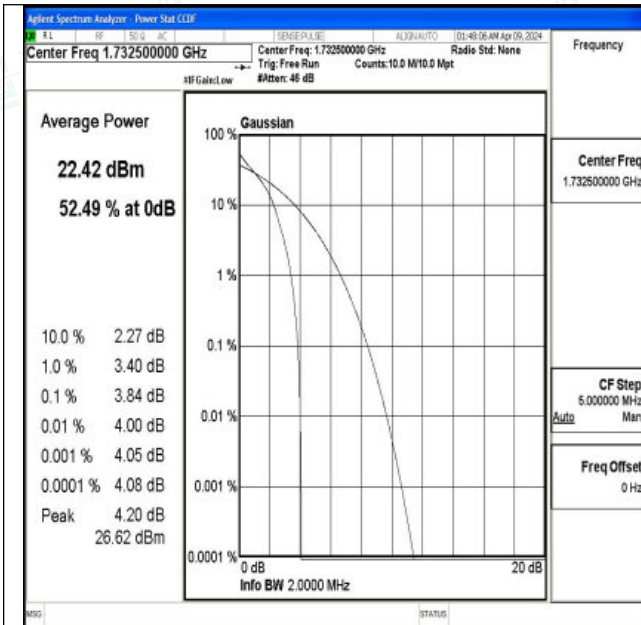
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



## Test Graphs



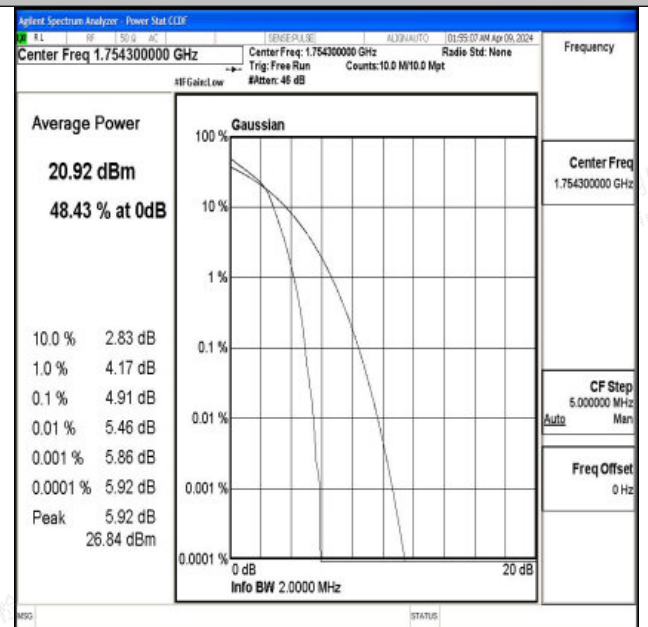
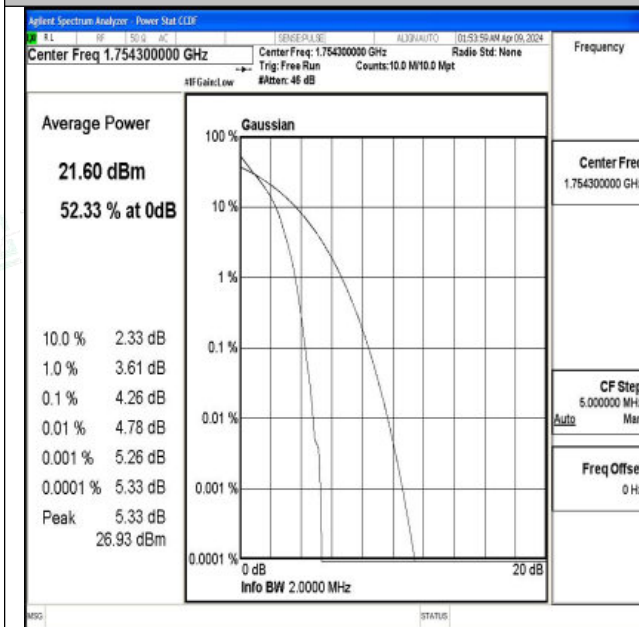
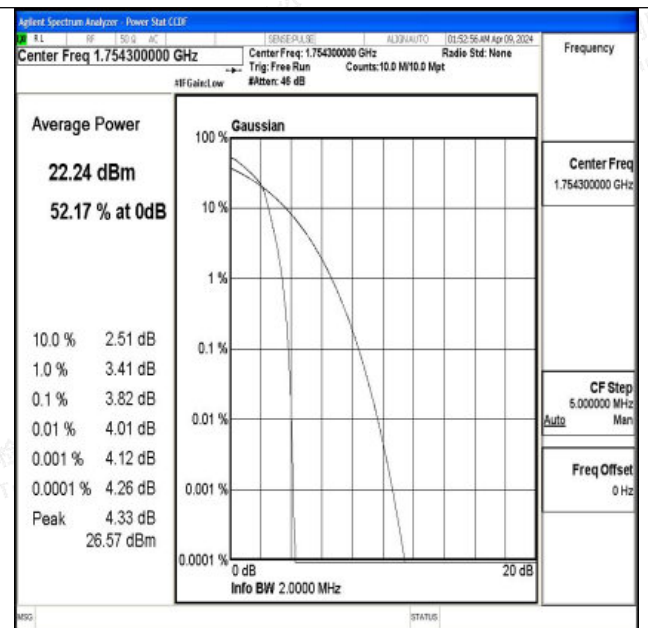
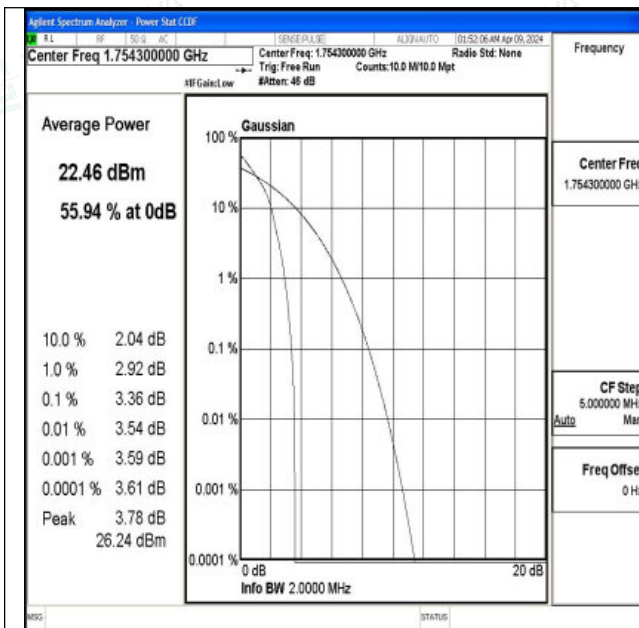


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

Scan code to check authenticity

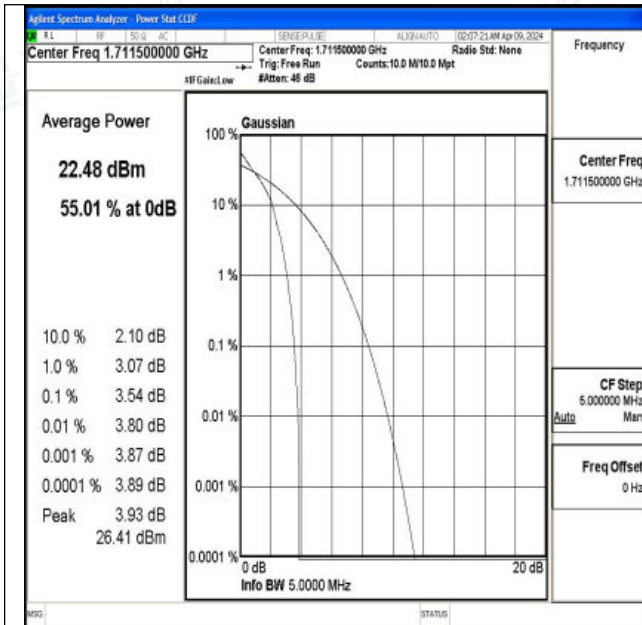


Shenzhen LCS Compliance Testing Laboratory Ltd.

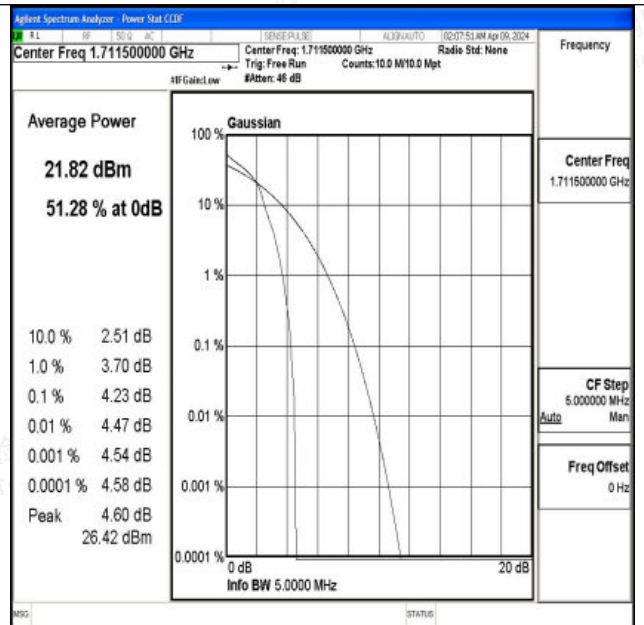
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

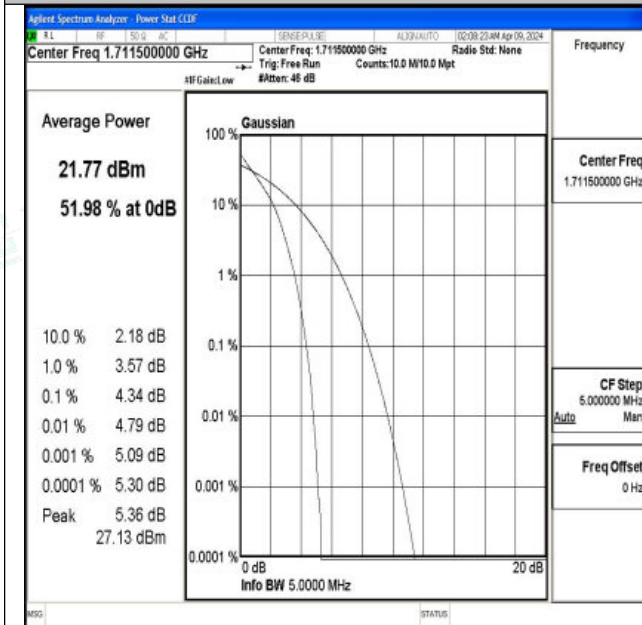
Scan code to check authenticity



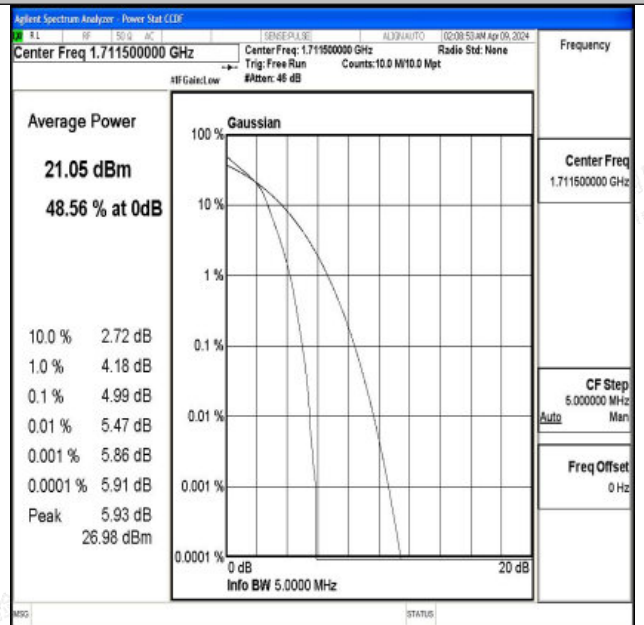
Band4-3MHz-QPSK-19965-1RB#0-PASS



Band4-3MHz-16QAM-19965-1RB#0-PASS



Band4-3MHz-QPSK-19965-15RB#0-PASS



Band4-3MHz-16QAM-19965-15RB#0-PASS

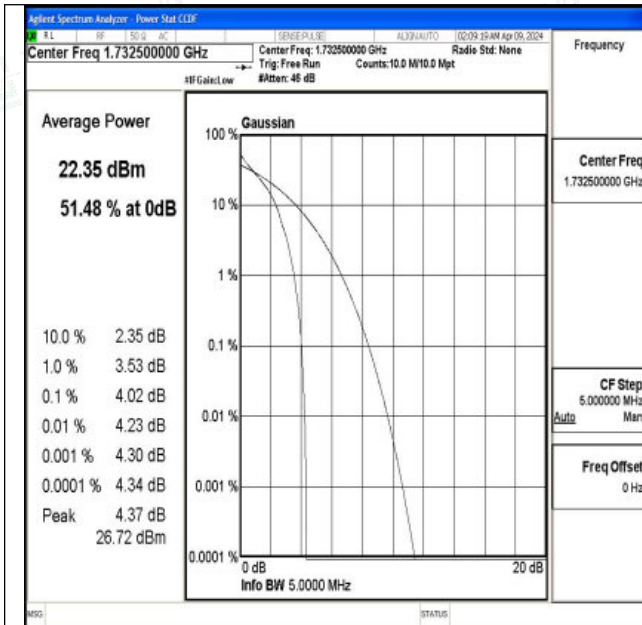


Shenzhen LCS Compliance Testing Laboratory Ltd.

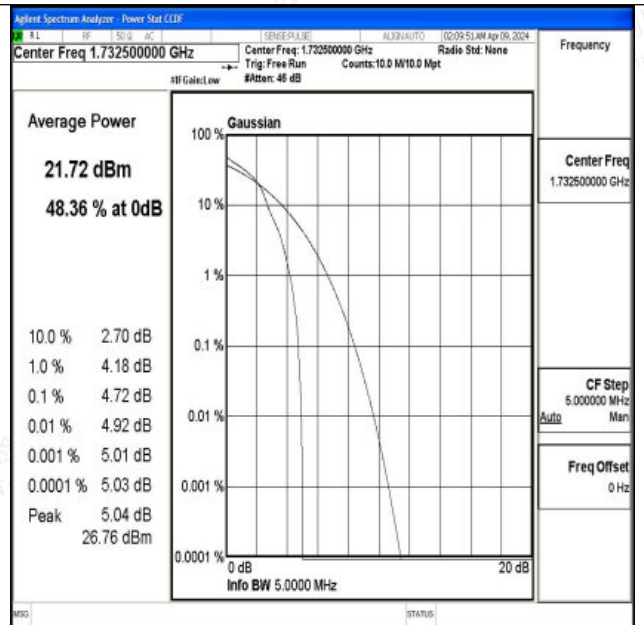
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

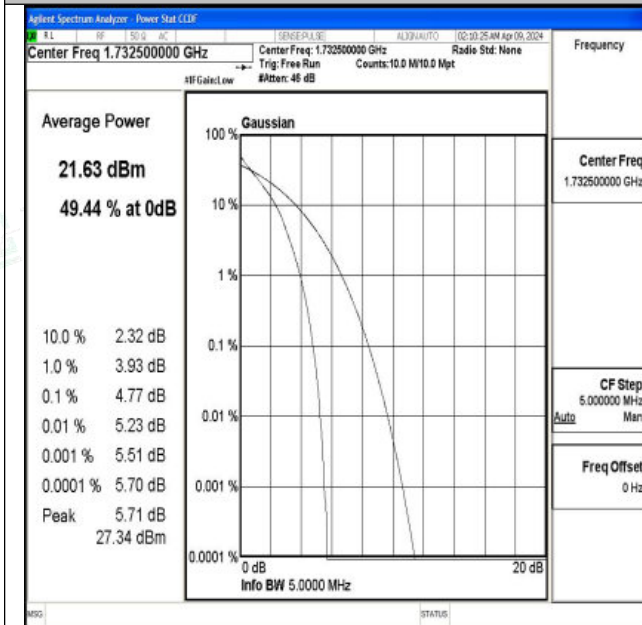
Scan code to check authenticity



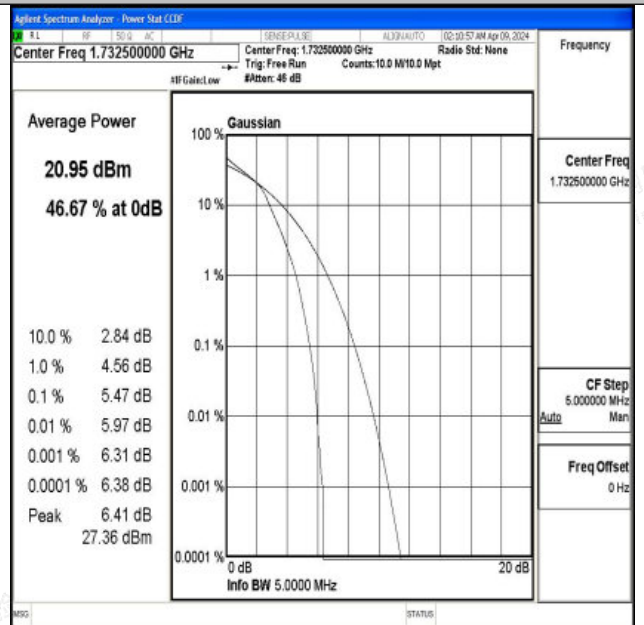
Band4-3MHz-QPSK-20175-1RB#0-PASS



Band4-3MHz-16QAM-20175-1RB#0-PASS



Band4-3MHz-QPSK-20175-15RB#0-PASS



Band4-3MHz-16QAM-20175-15RB#0-PASS

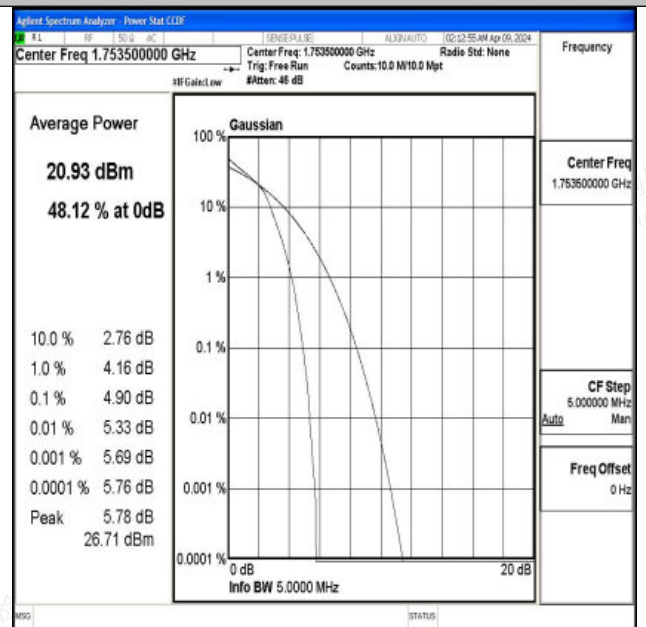
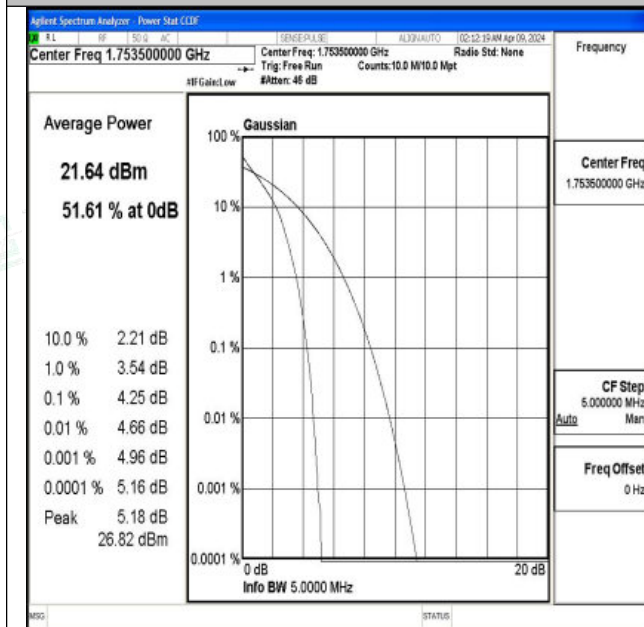
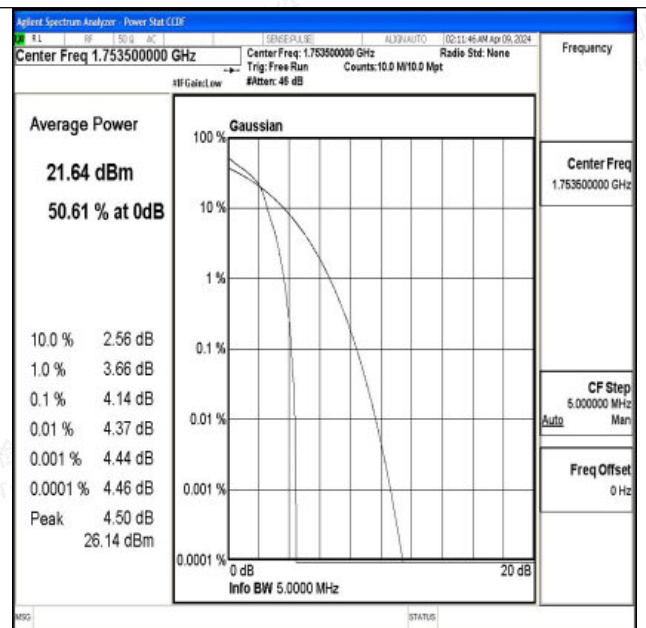
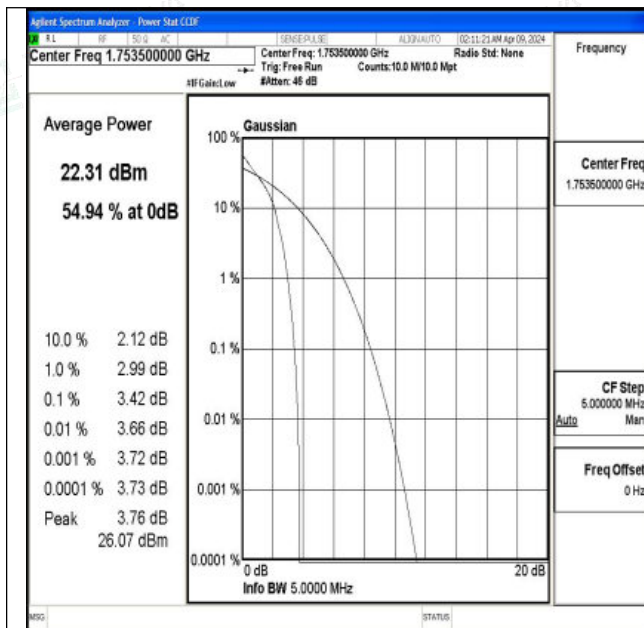


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

Scan code to check authenticity

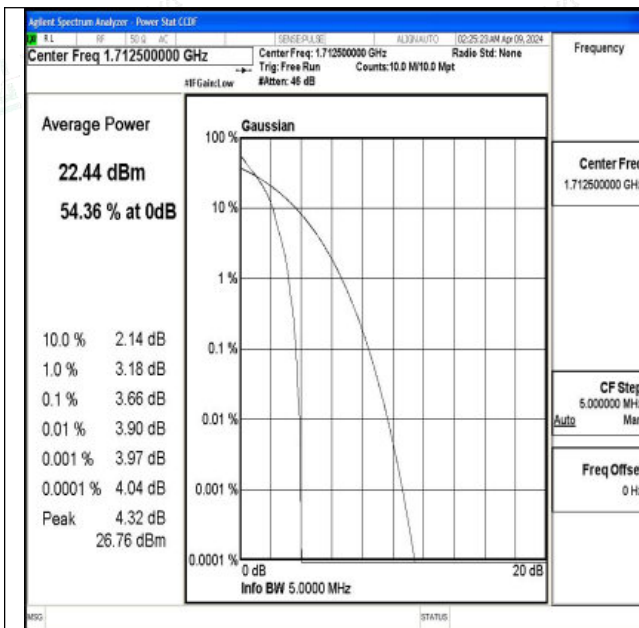


Shenzhen LCS Compliance Testing Laboratory Ltd.

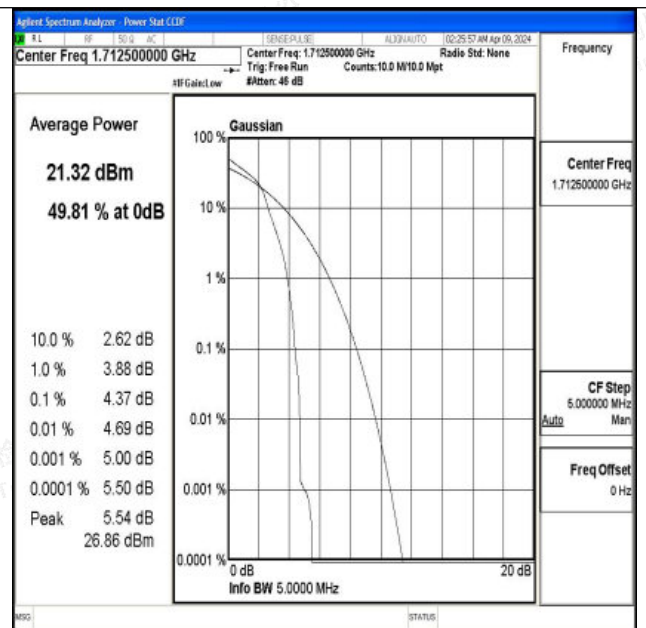
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

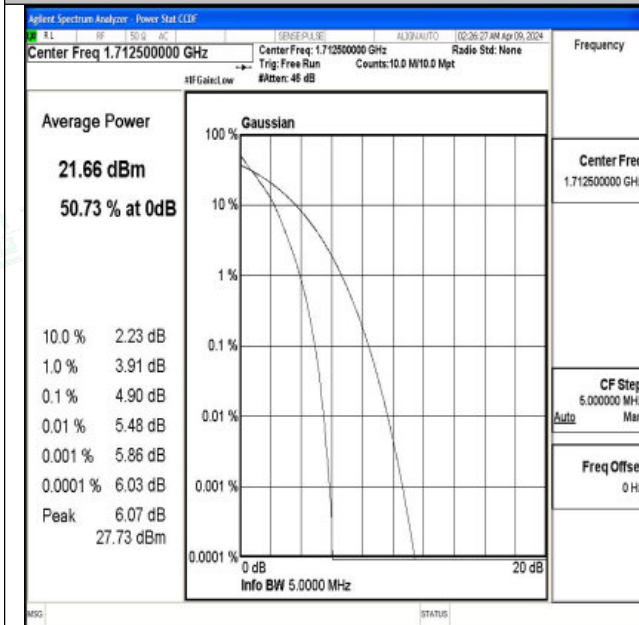
Scan code to check authenticity



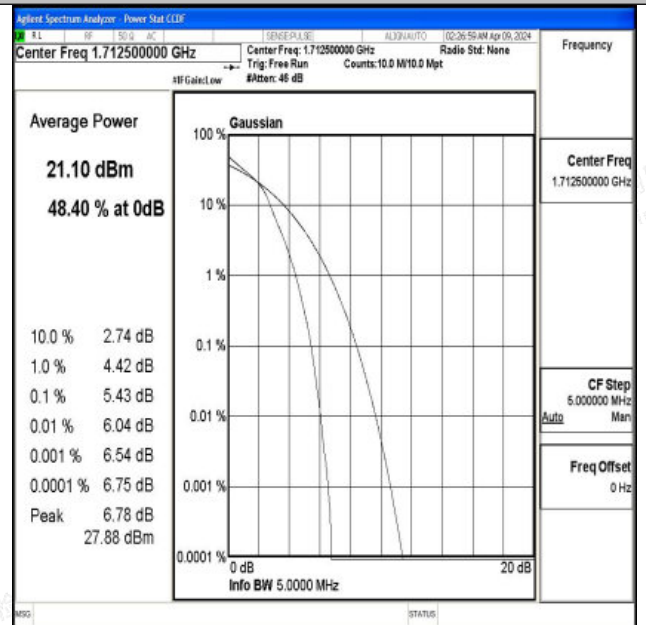
Band4-5MHz-QPSK-19975-1RB#0-PASS



Band4-5MHz-16QAM-19975-1RB#0-PASS



Band4-5MHz-QPSK-19975-25RB#0-PASS



Band4-5MHz-16QAM-19975-25RB#0-PASS

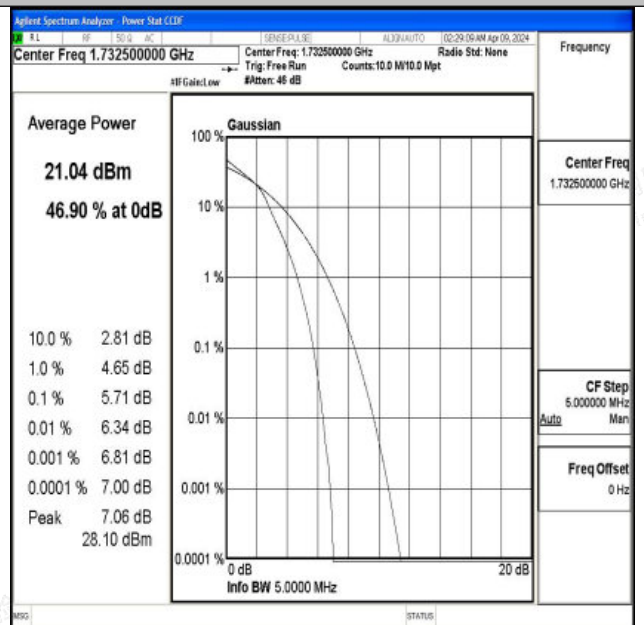
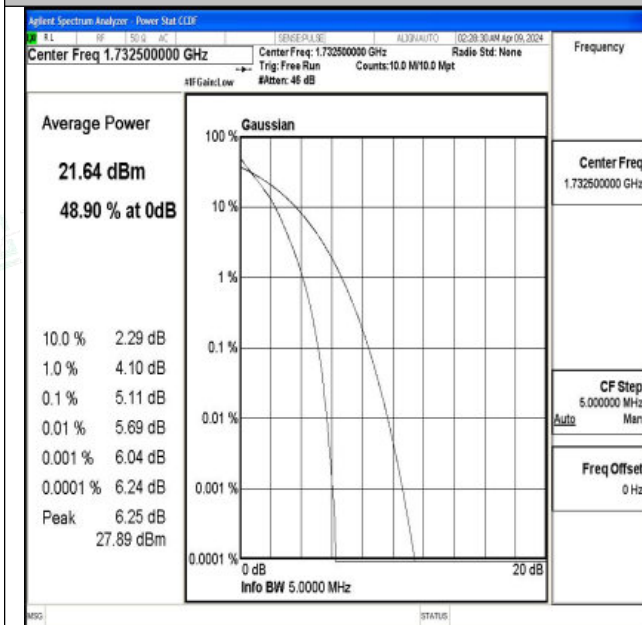
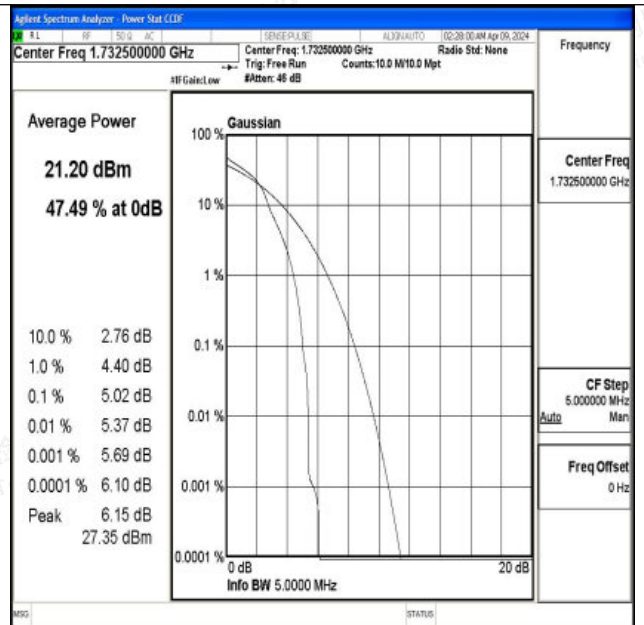
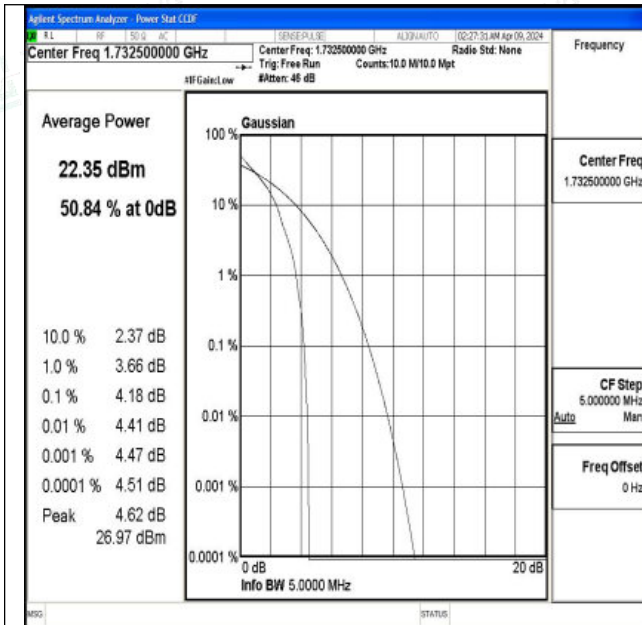


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

Scan code to check authenticity

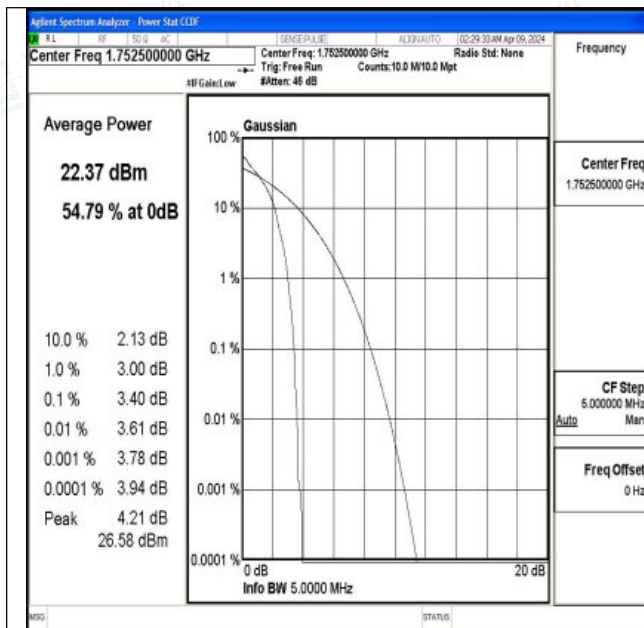


Shenzhen LCS Compliance Testing Laboratory Ltd.

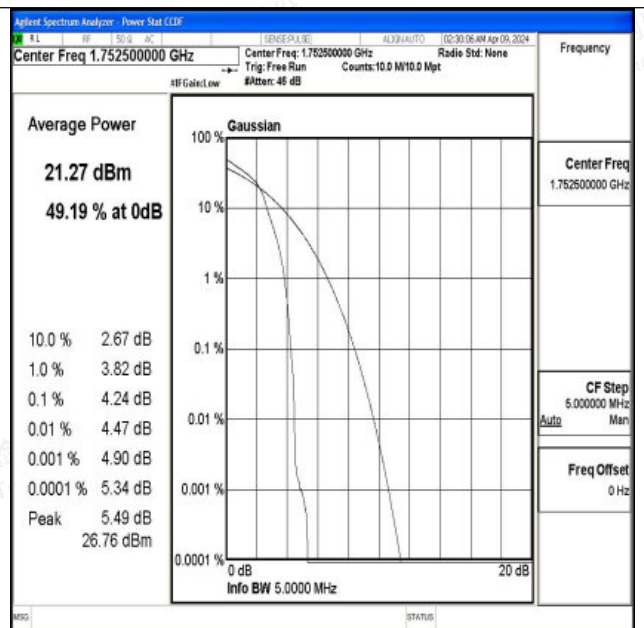
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

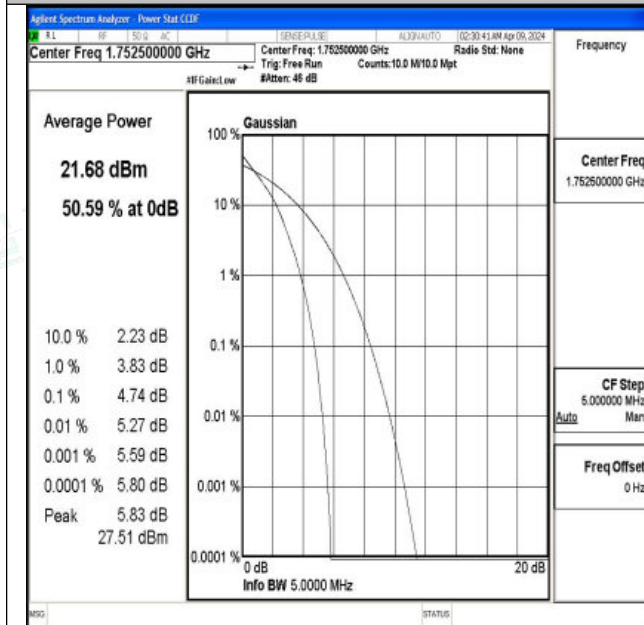
Scan code to check authenticity



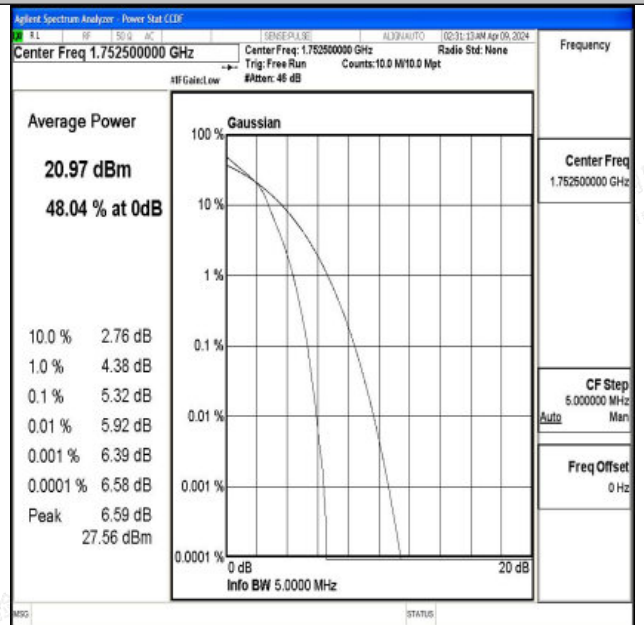
Band4-5MHz-QPSK-20375-1RB#0-PASS



Band4-5MHz-16QAM-20375-1RB#0-PASS



Band4-5MHz-QPSK-20375-25RB#0-PASS



Band4-5MHz-16QAM-20375-25RB#0-PASS

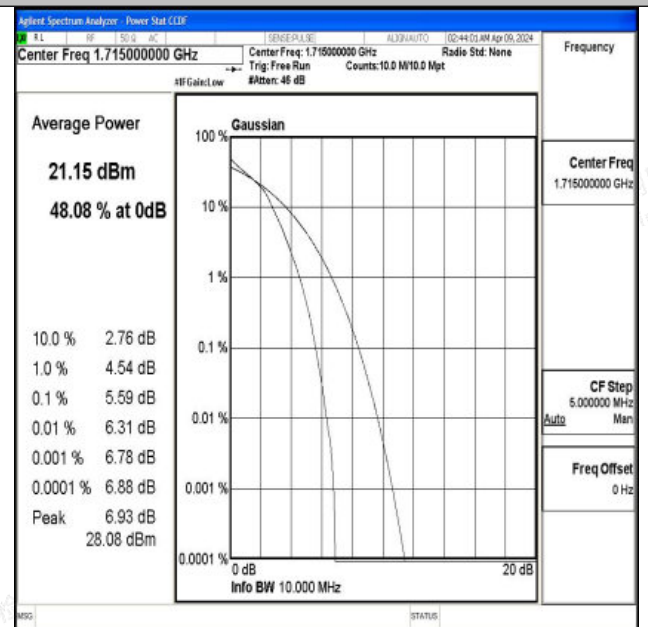
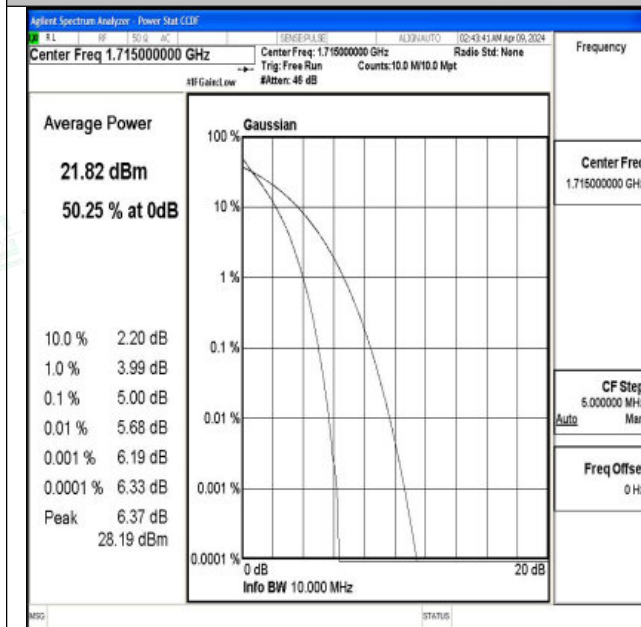
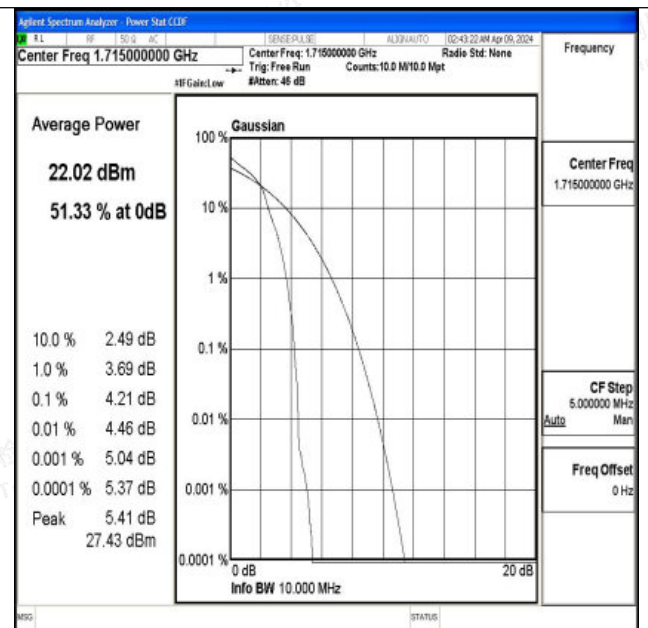
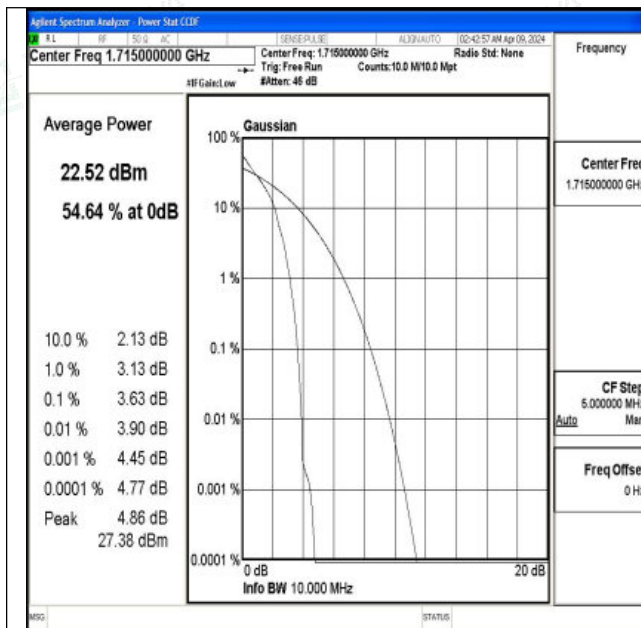


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

Scan code to check authenticity

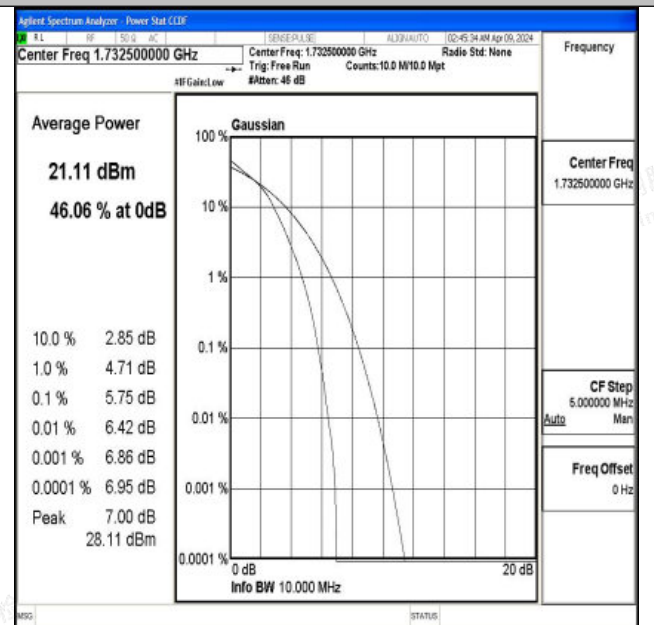
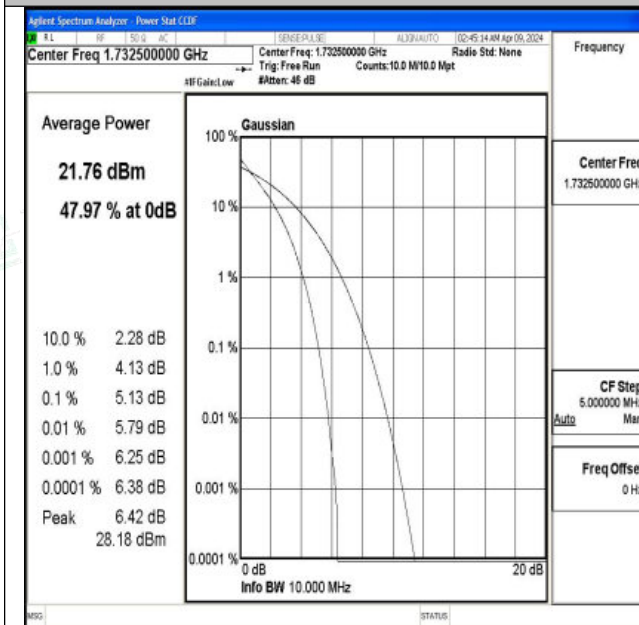
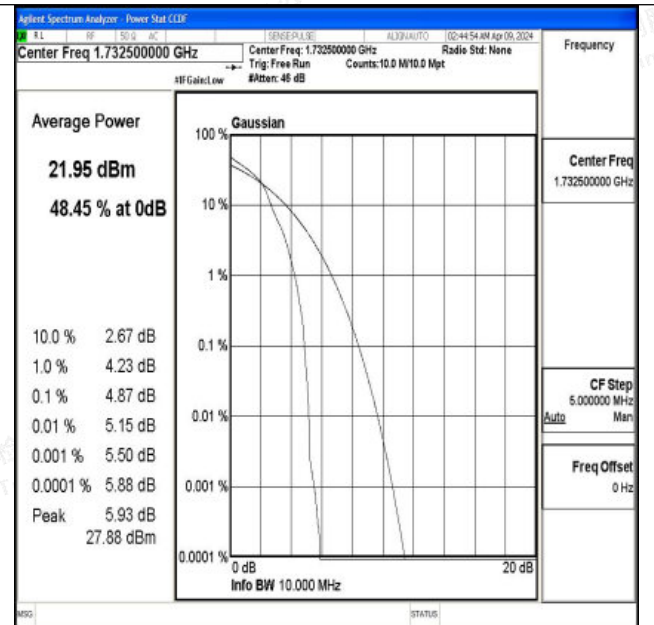
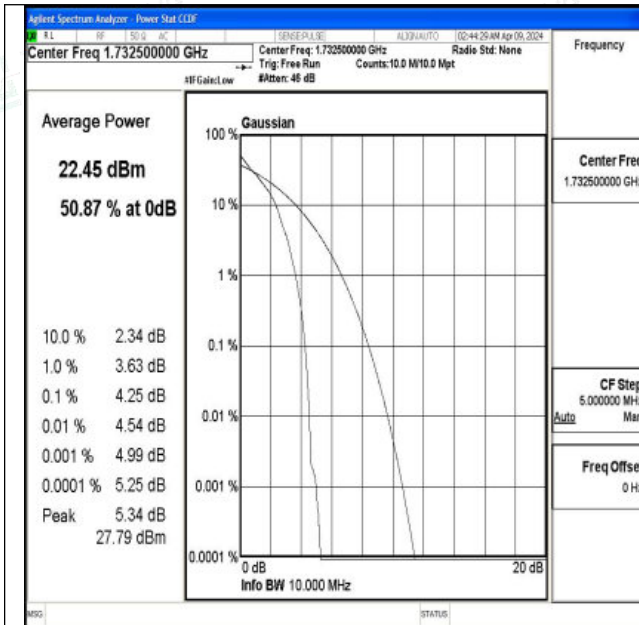


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

Scan code to check authenticity

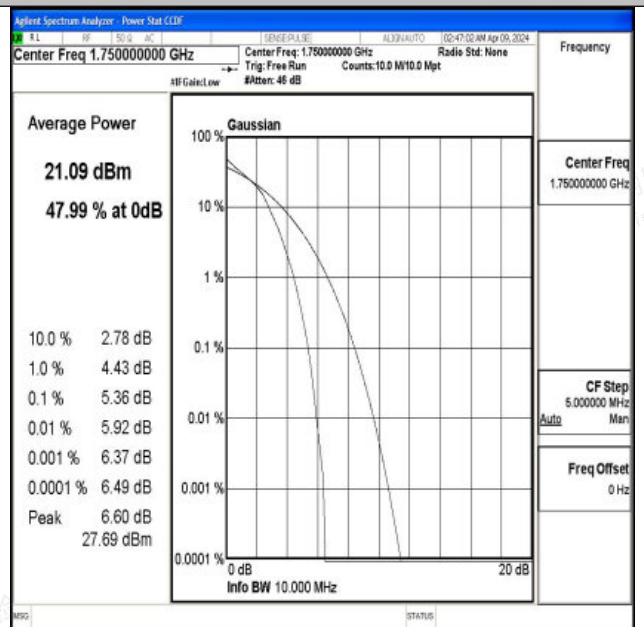
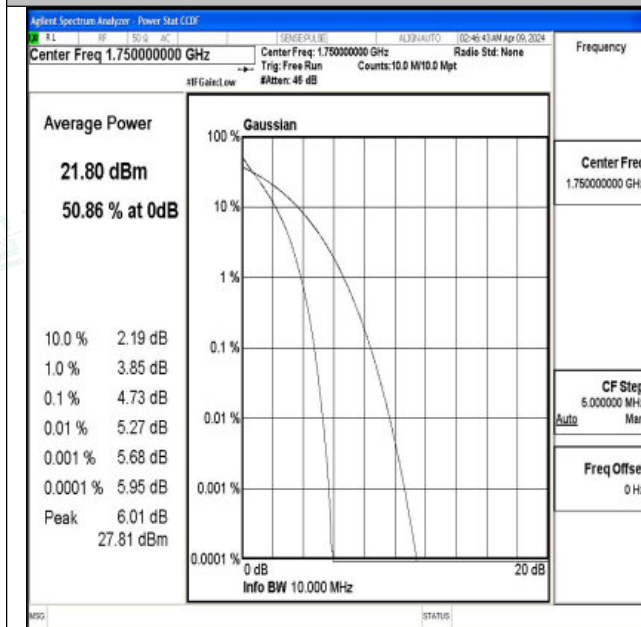
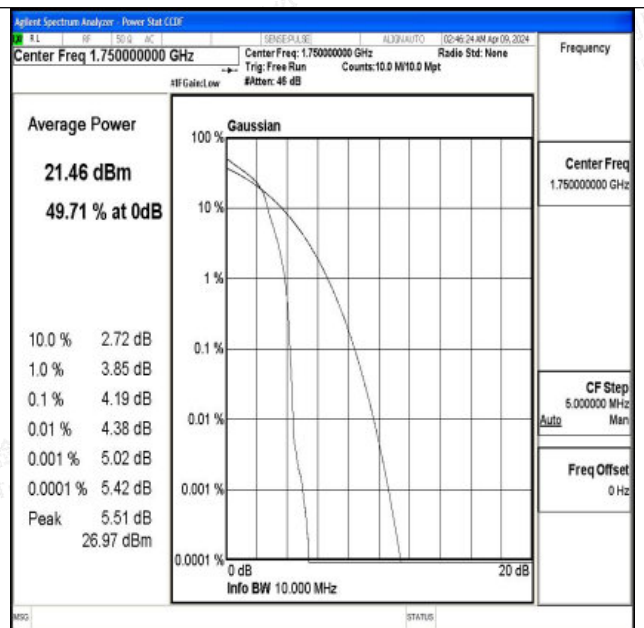
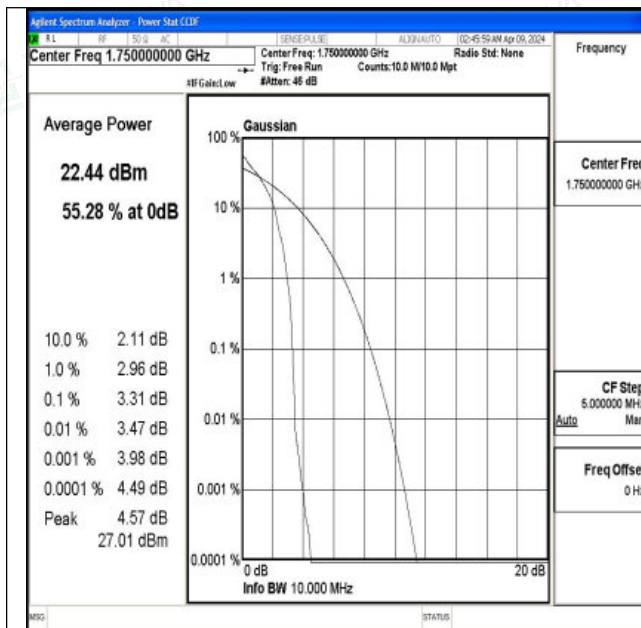


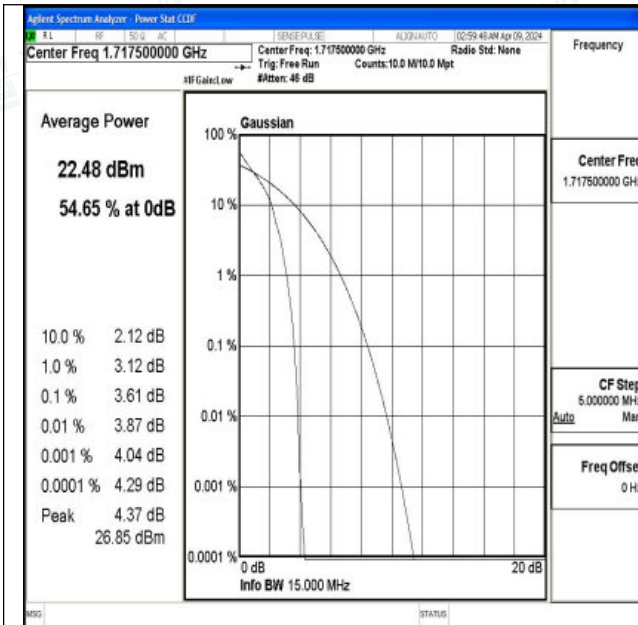
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

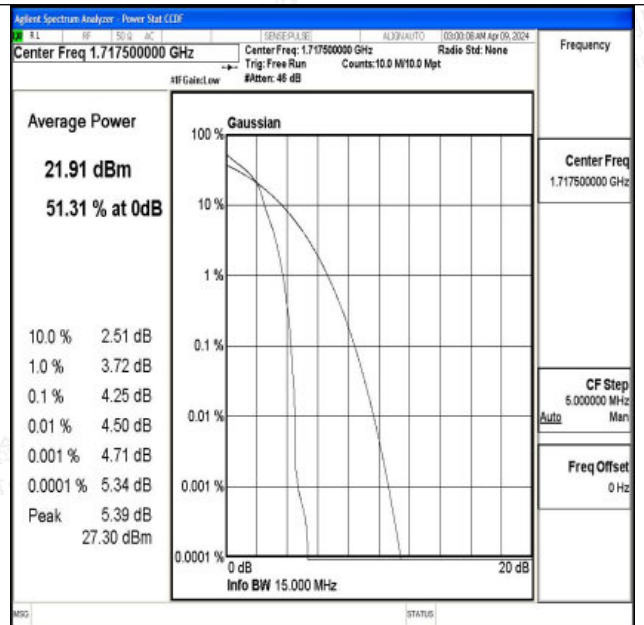
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

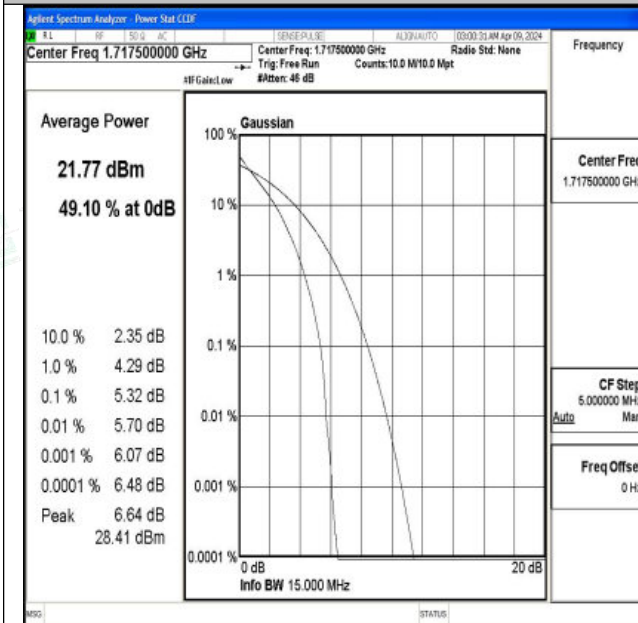




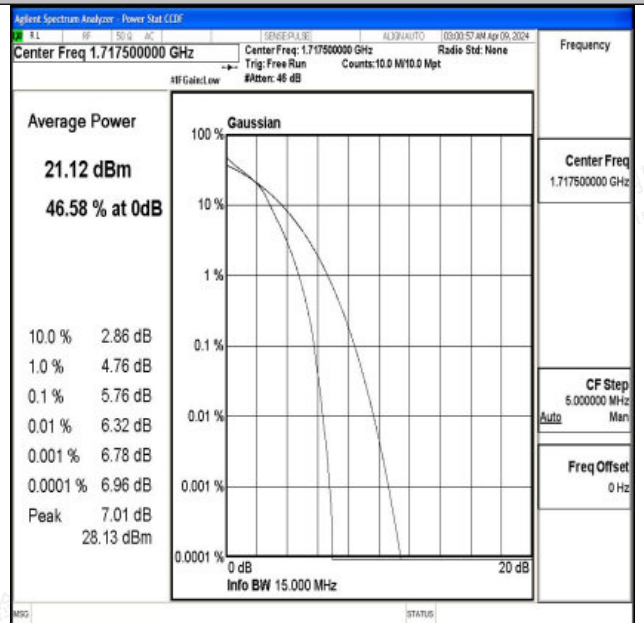
Band4-15MHz-QPSK-20025-1RB#0-PASS



Band4-15MHz-16QAM-20025-1RB#0-PASS



Band4-15MHz-QPSK-20025-75RB#0-PASS



Band4-15MHz-16QAM-20025-75RB#0-PASS

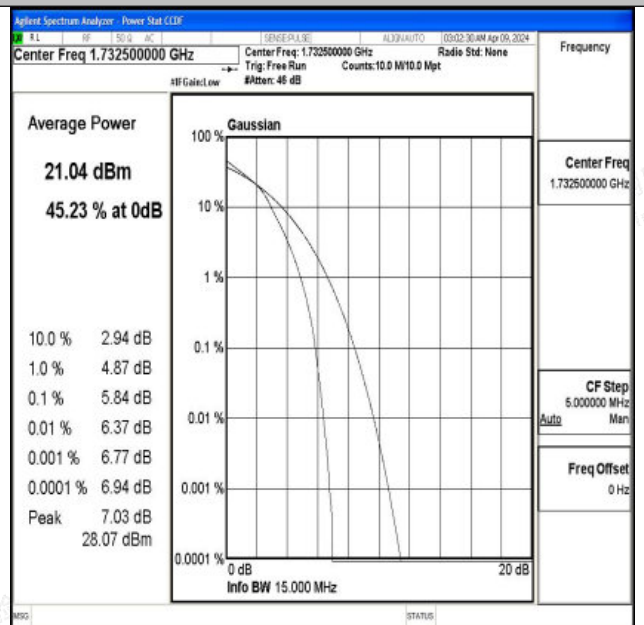
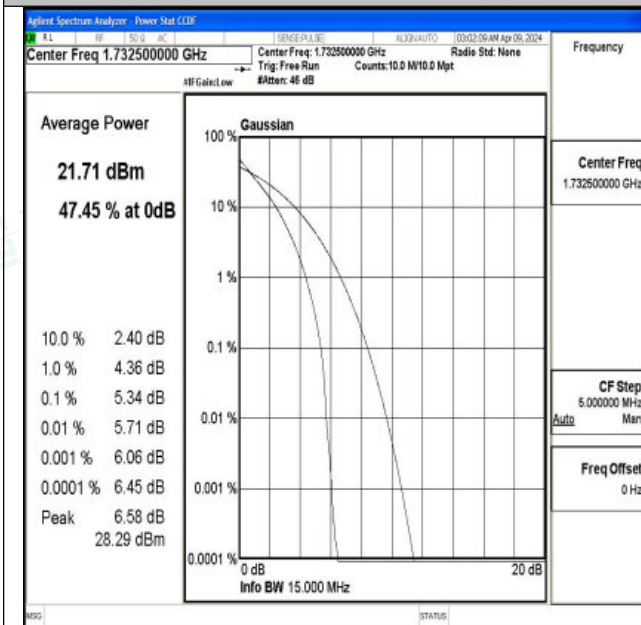
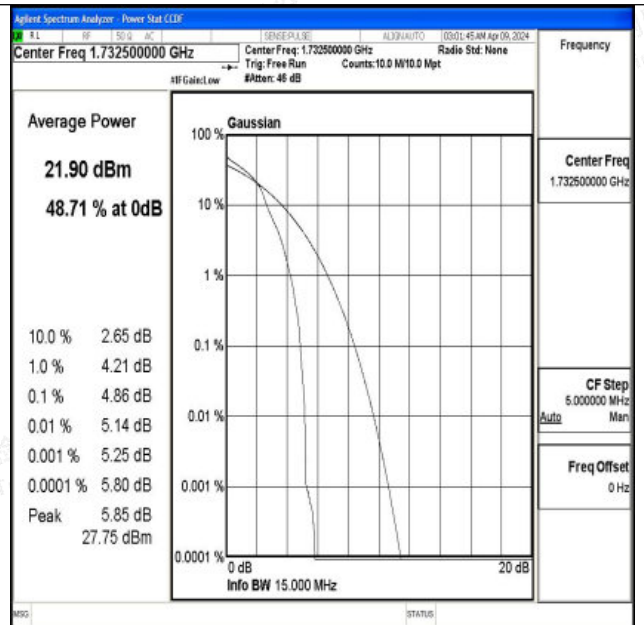
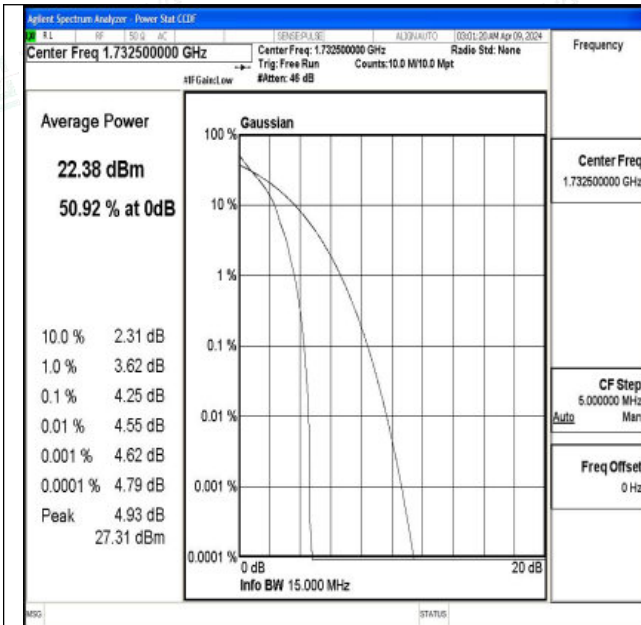


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

Scan code to check authenticity

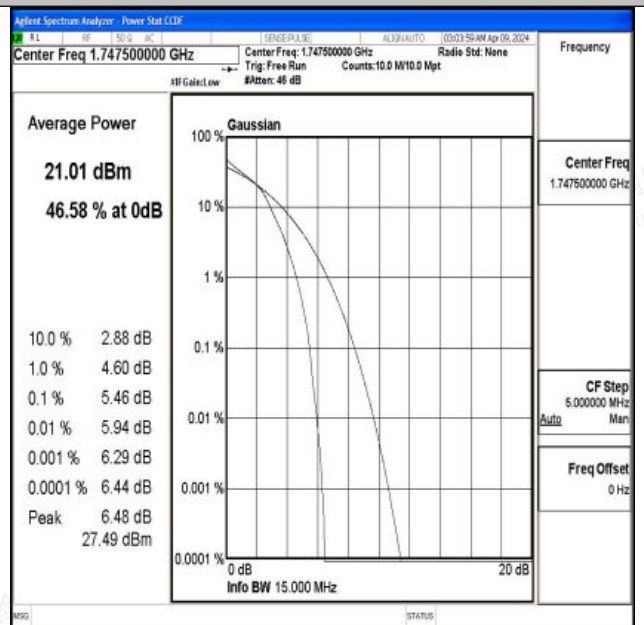
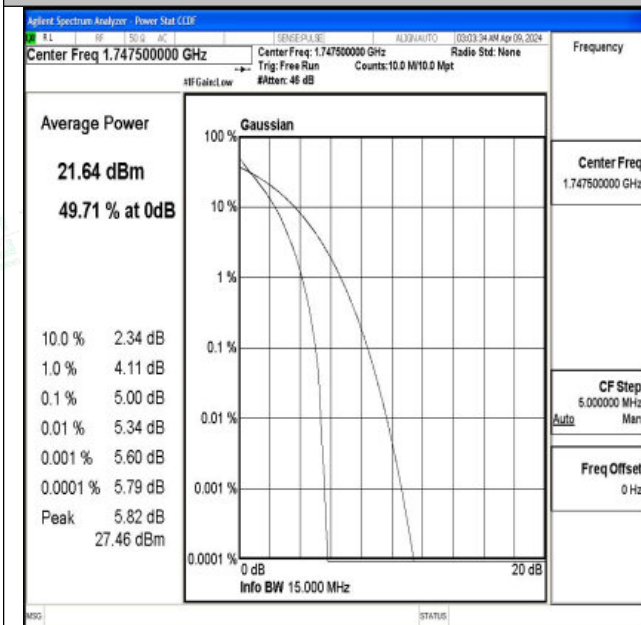
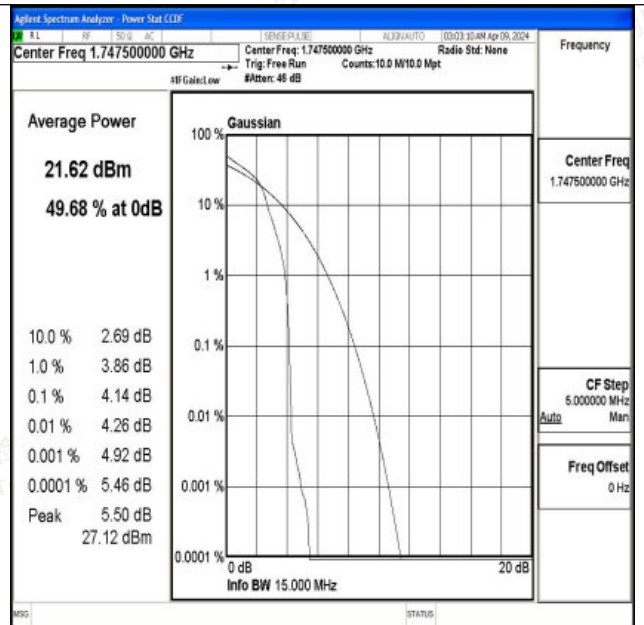
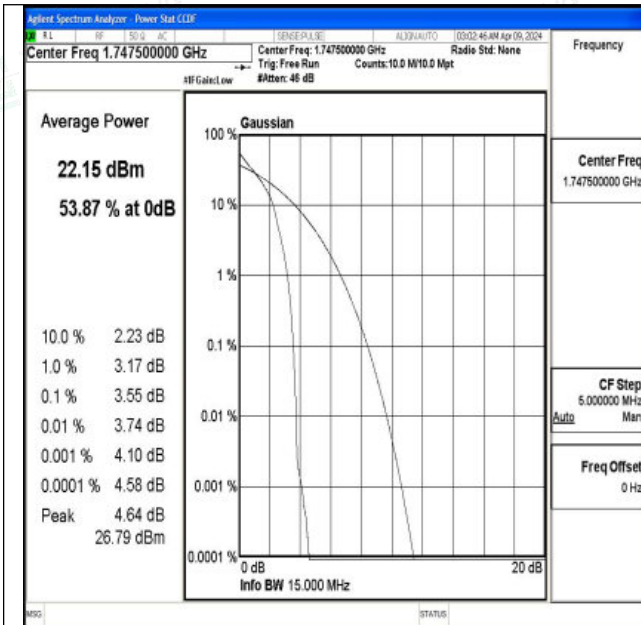


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

Scan code to check authenticity

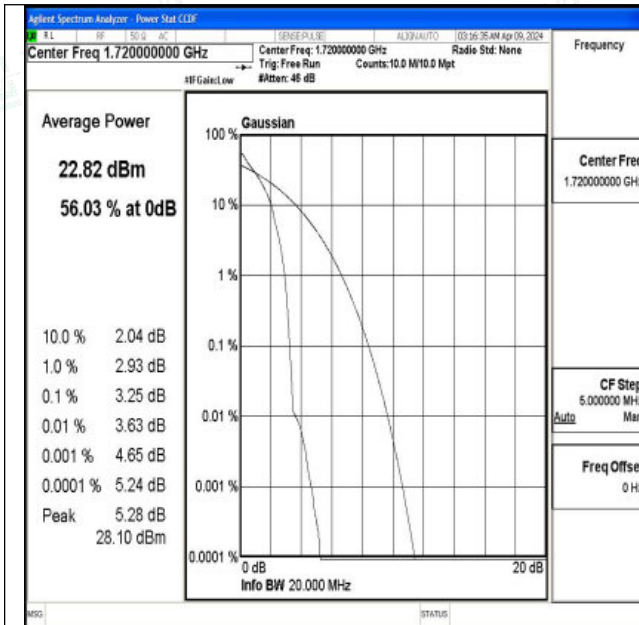


Shenzhen LCS Compliance Testing Laboratory Ltd.

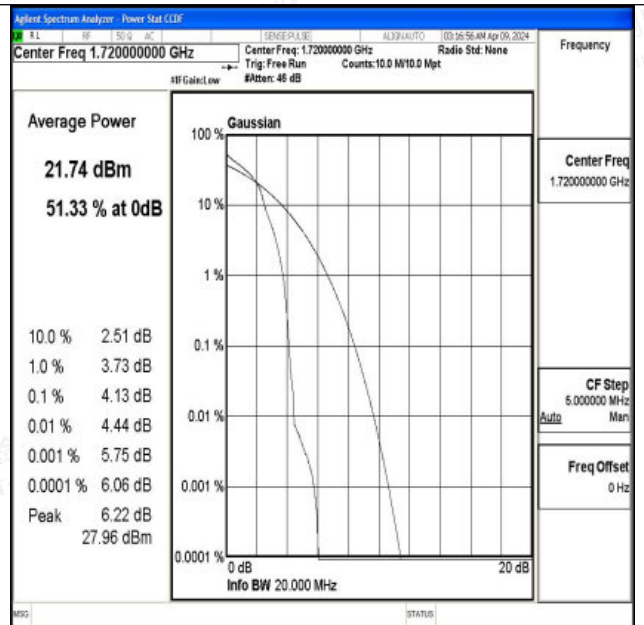
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

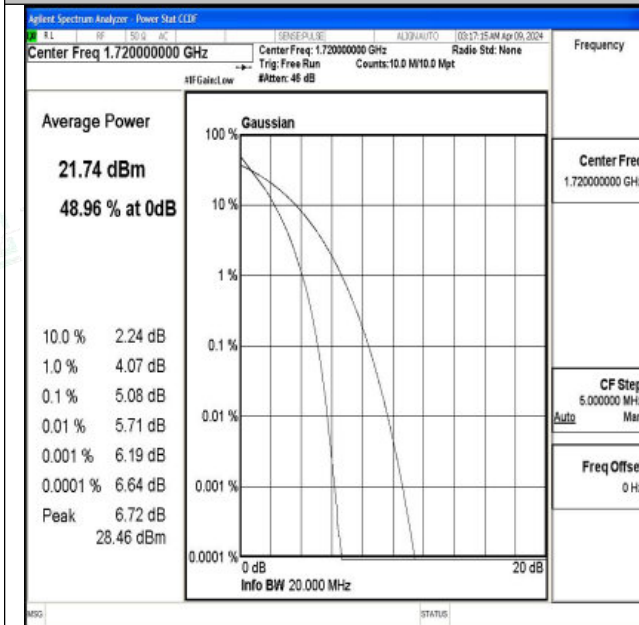
Scan code to check authenticity



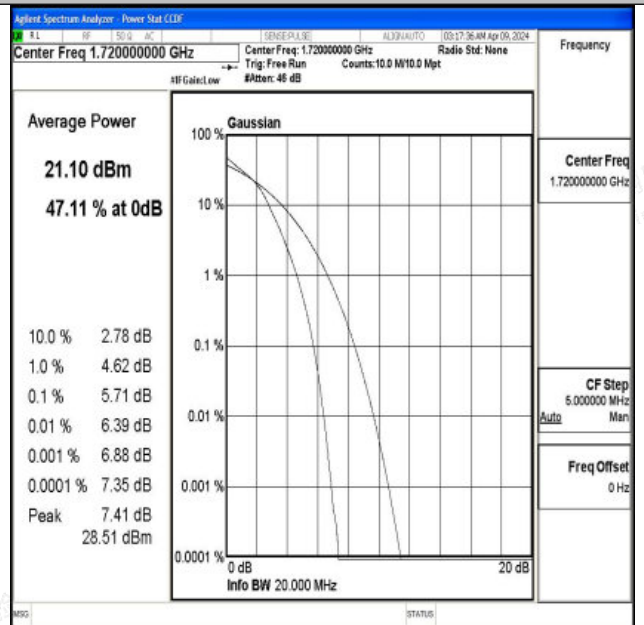
Band4-20MHz-QPSK-20050-1RB#0-PASS



Band4-20MHz-16QAM-20050-1RB#0-PASS



Band4-20MHz-QPSK-20050-100RB#0-PASS



Band4-20MHz-16QAM-20050-100RB#0-PASS

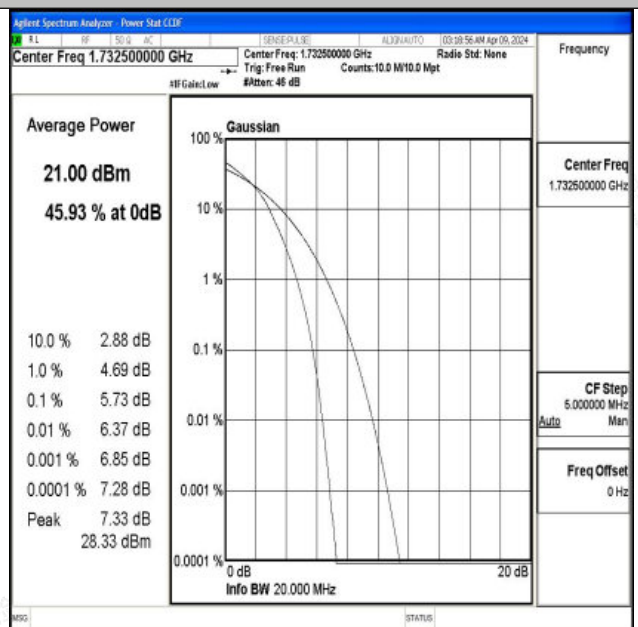
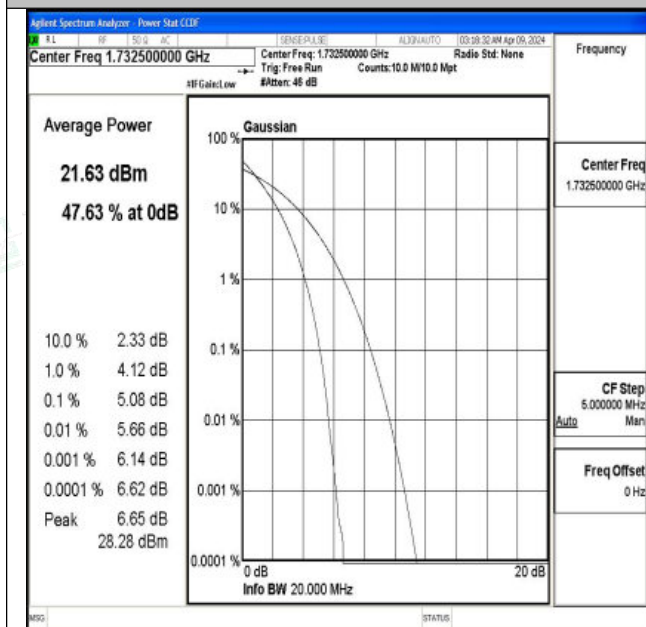
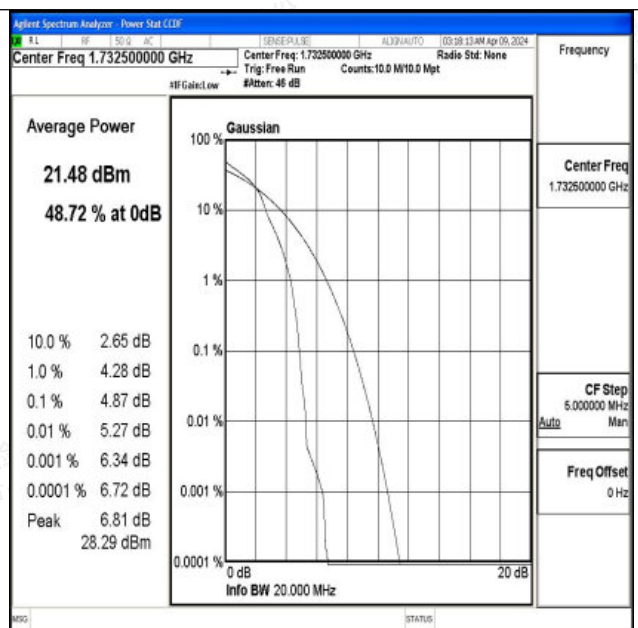
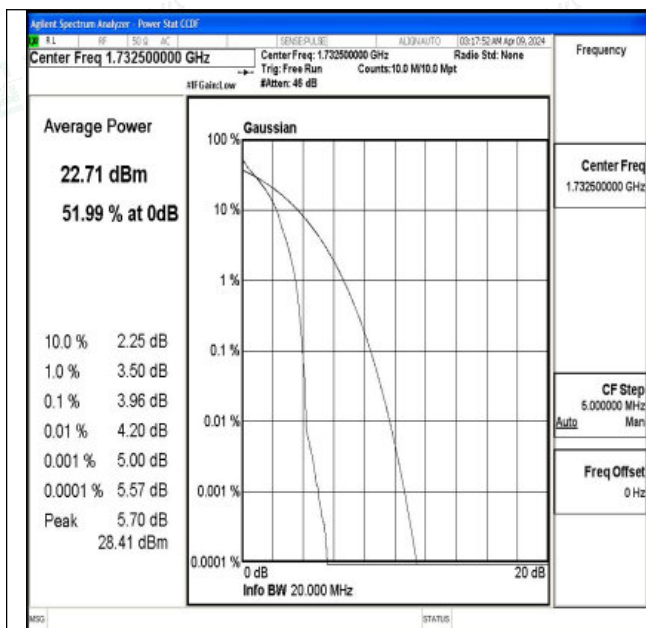


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

Scan code to check authenticity

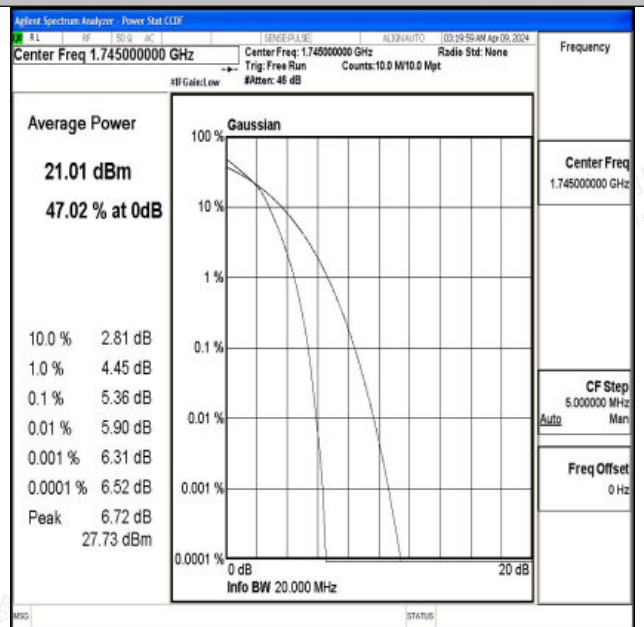
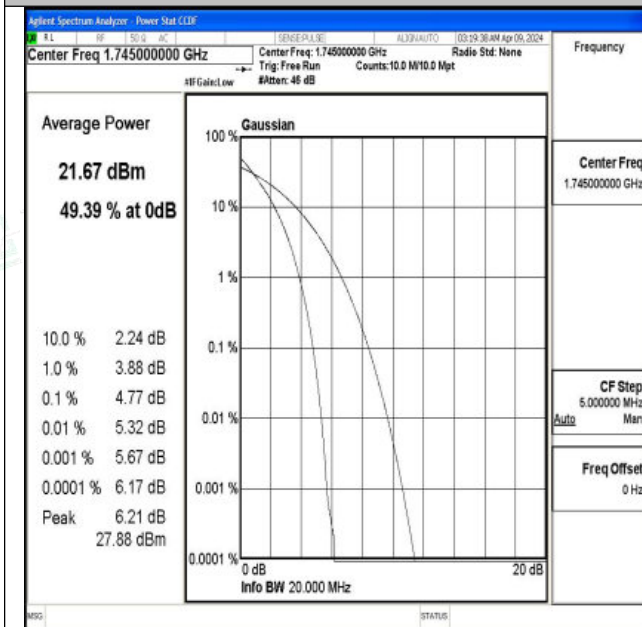
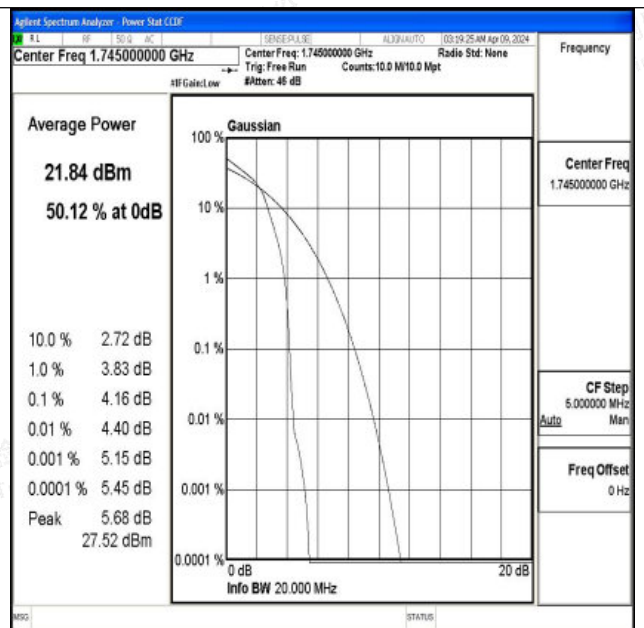
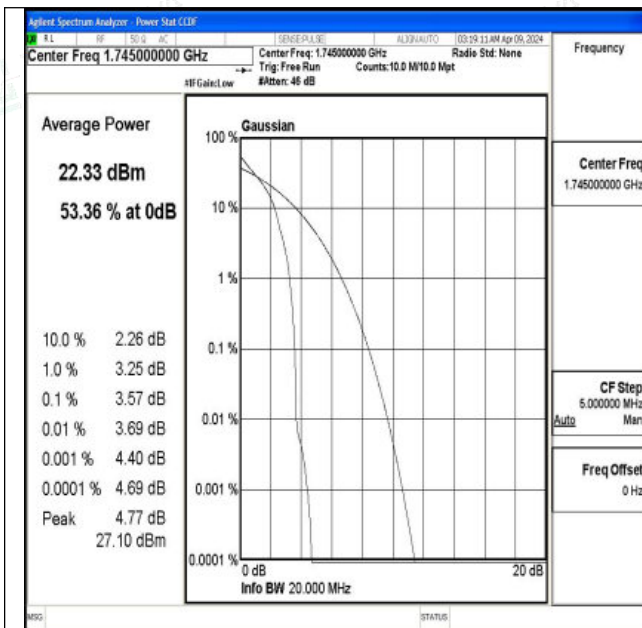


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

Scan code to check authenticity



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

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

Scan code to check authenticity



## B.3 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 1.0976                   | 1.344                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 1.1098                   | 1.380                | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 1.0973                   | 1.425                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 1.1029                   | 1.381                | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 1.0988                   | 1.318                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 1.1038                   | 1.474                | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 2.7059                   | 3.153                | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 2.7041                   | 3.131                | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 2.7215                   | 3.144                | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | 2.7074                   | 3.097                | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | 2.7133                   | 3.308                | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | 2.7087                   | 3.136                | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | 4.5405                   | 5.451                | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | 4.5298                   | 5.334                | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | 4.5216                   | 5.301                | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | 4.5346                   | 5.294                | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | 4.5397                   | 5.300                | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | 4.5176                   | 5.312                | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | 9.0130                   | 10.18                | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 50RB#0           | 9.0264                   | 10.23                | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 50RB#0           | 8.9929                   | 10.03                | PASS    |
| Band4 | 10MHz     | 16QAM      | 20175   | 50RB#0           | 8.9923                   | 10.04                | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | 8.9883                   | 10.47                | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 50RB#0           | 9.0169                   | 10.07                | PASS    |
| Band4 | 15MHz     | QPSK       | 20025   | 75RB#0           | 13.540                   | 15.37                | PASS    |
| Band4 | 15MHz     | 16QAM      | 20025   | 75RB#0           | 13.503                   | 14.97                | PASS    |
| Band4 | 15MHz     | QPSK       | 20175   | 75RB#0           | 13.545                   | 15.16                | PASS    |
| Band4 | 15MHz     | 16QAM      | 20175   | 75RB#0           | 13.495                   | 14.93                | PASS    |
| Band4 | 15MHz     | QPSK       | 20325   | 75RB#0           | 13.533                   | 15.62                | PASS    |
| Band4 | 15MHz     | 16QAM      | 20325   | 75RB#0           | 13.522                   | 15.07                | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | 18.008                   | 20.04                | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0          | 18.070                   | 19.96                | PASS    |



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

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

Scan code to check authenticity

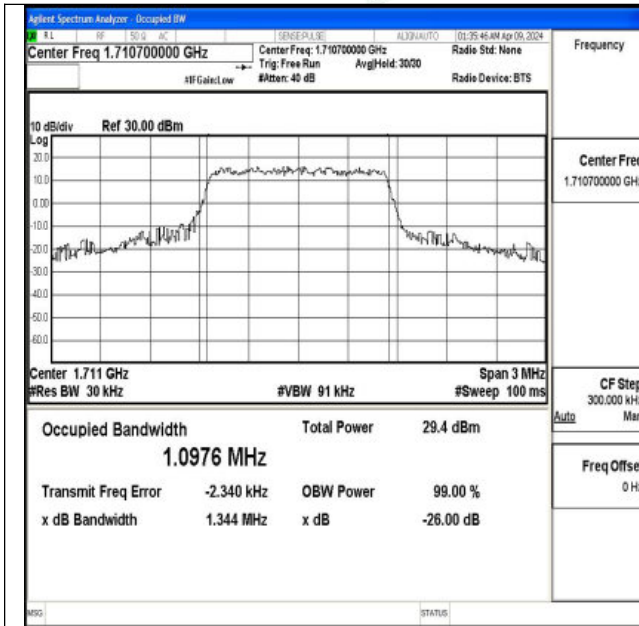


|       |       |       |       |         |        |       |      |
|-------|-------|-------|-------|---------|--------|-------|------|
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 18.047 | 19.94 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 18.080 | 20.04 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 18.042 | 20.49 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 18.037 | 20.44 | PASS |

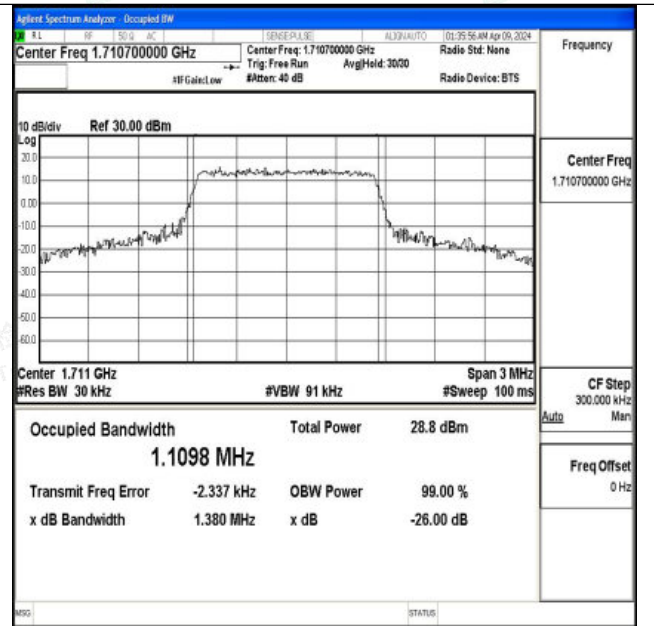




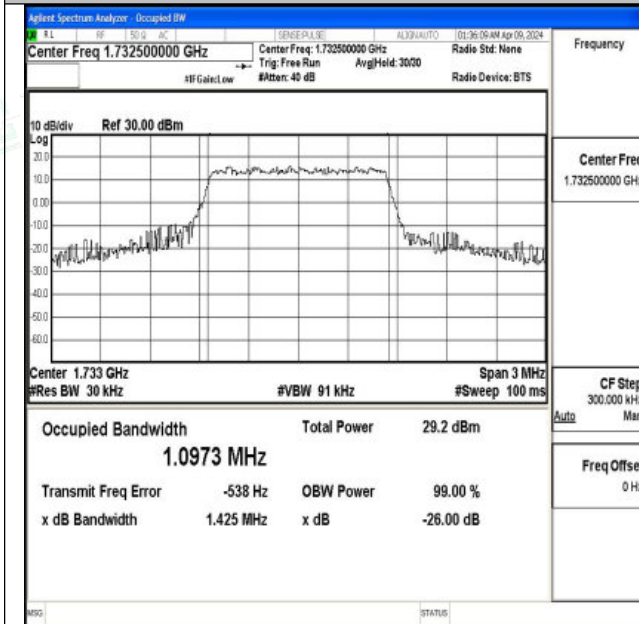
## Test Graphs



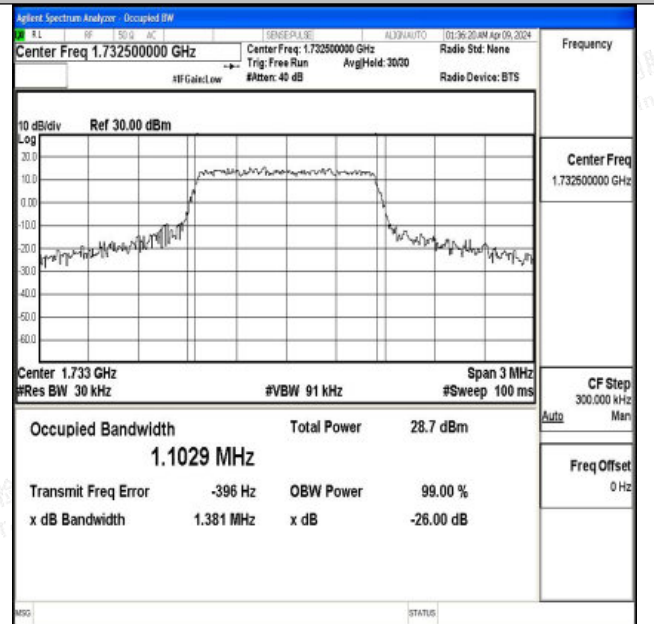
Band4-1.4MHz-QPSK-19957-6RB#0-PASS



Band4-1.4MHz-16QAM-19957-6RB#0-PASS



Band4-1.4MHz-QPSK-20175-6RB#0-PASS



Band4-1.4MHz-16QAM-20175-6RB#0-PASS

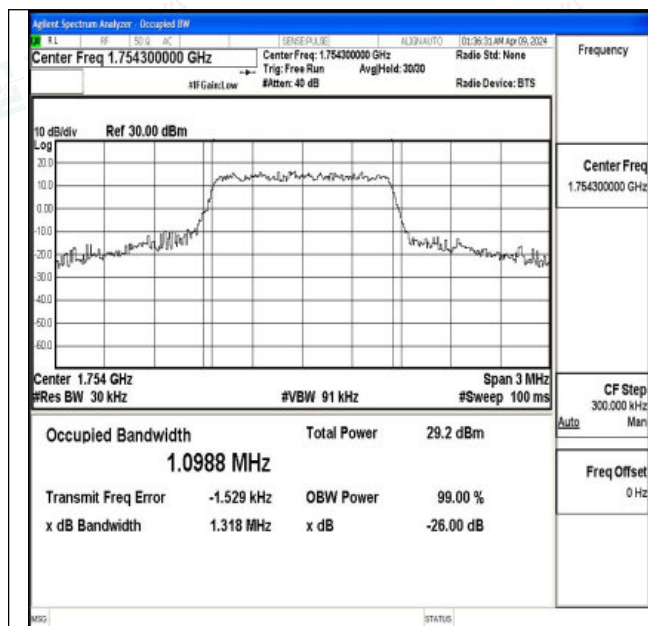


Shenzhen LCS Compliance Testing Laboratory Ltd.

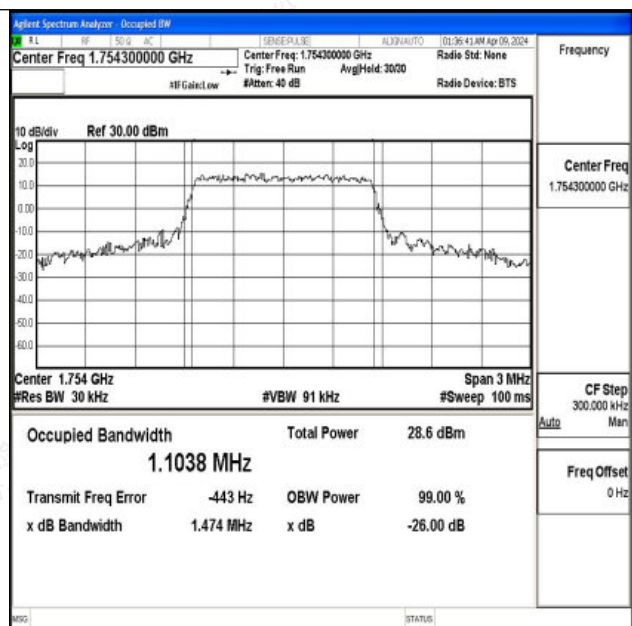
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

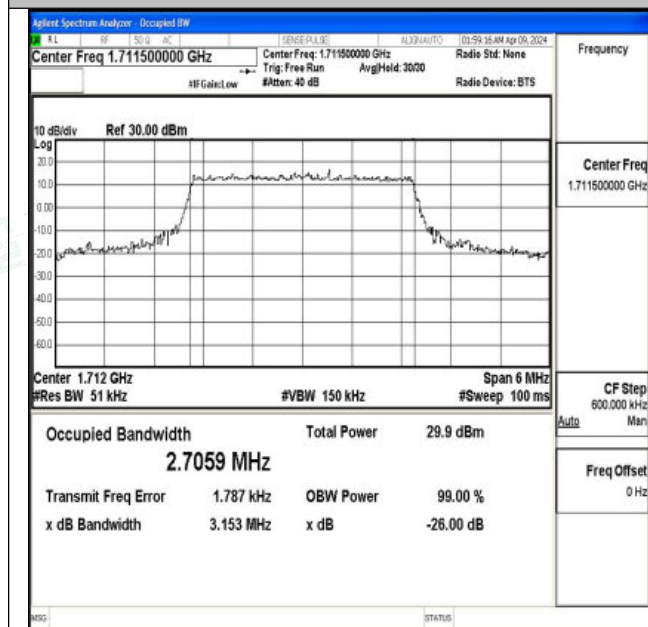
Scan code to check authenticity



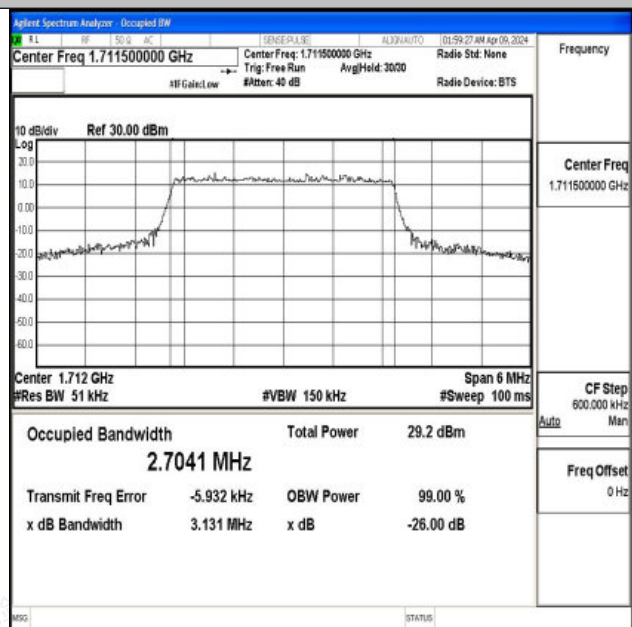
Band4-1.4MHz-QPSK-20393-6RB#0-PASS



Band4-1.4MHz-16QAM-20393-6RB#0-PASS



Band4-3MHz-QPSK-19965-15RB#0-PASS



Band4-3MHz-16QAM-19965-15RB#0-PASS

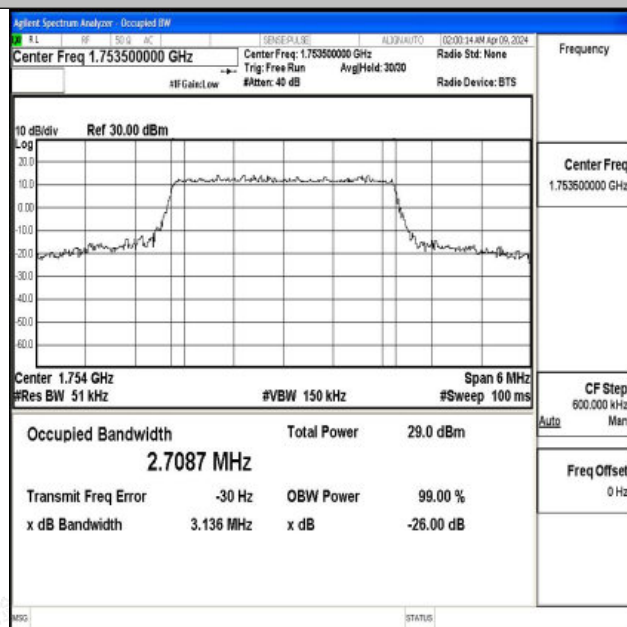
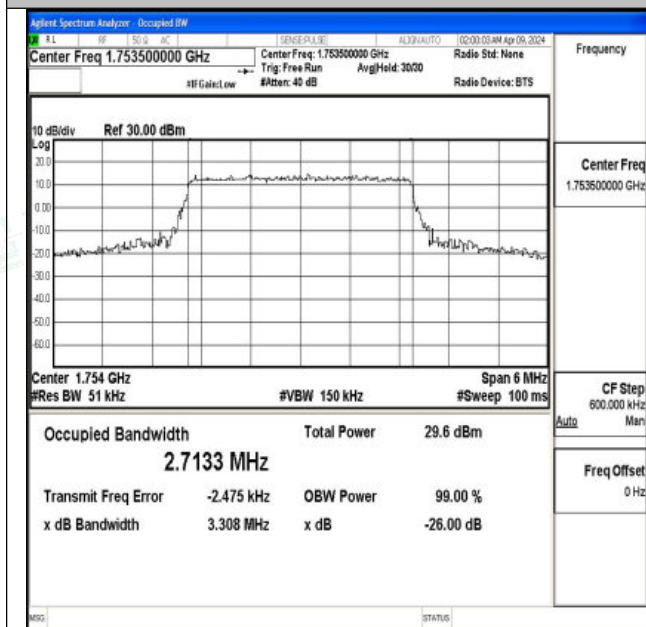
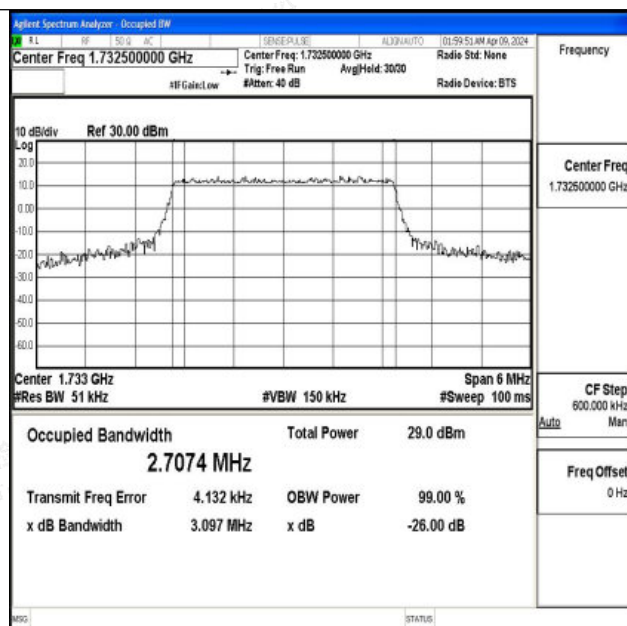
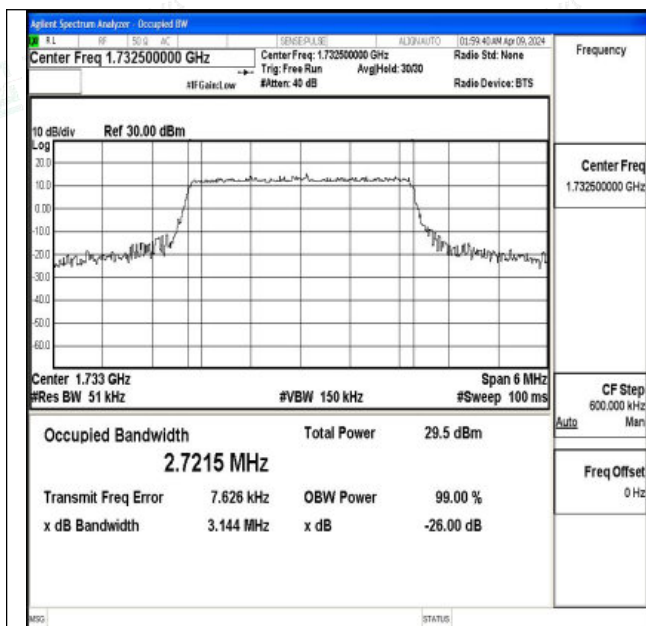


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

Scan code to check authenticity

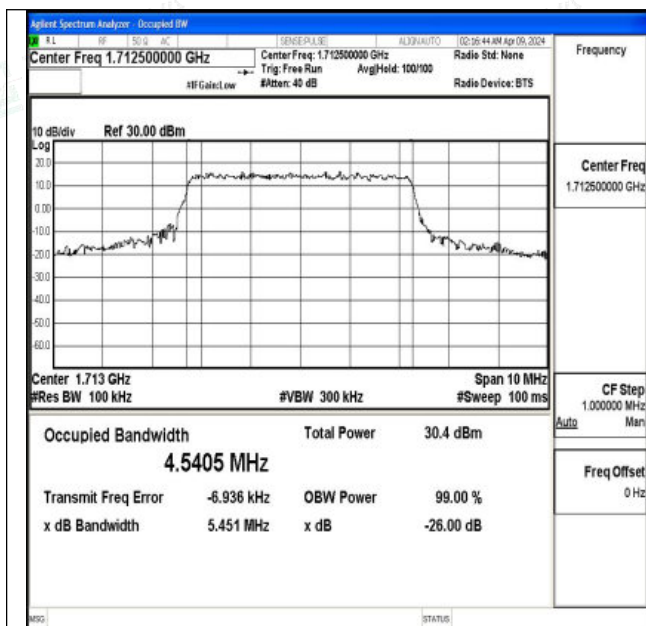


Shenzhen LCS Compliance Testing Laboratory Ltd.

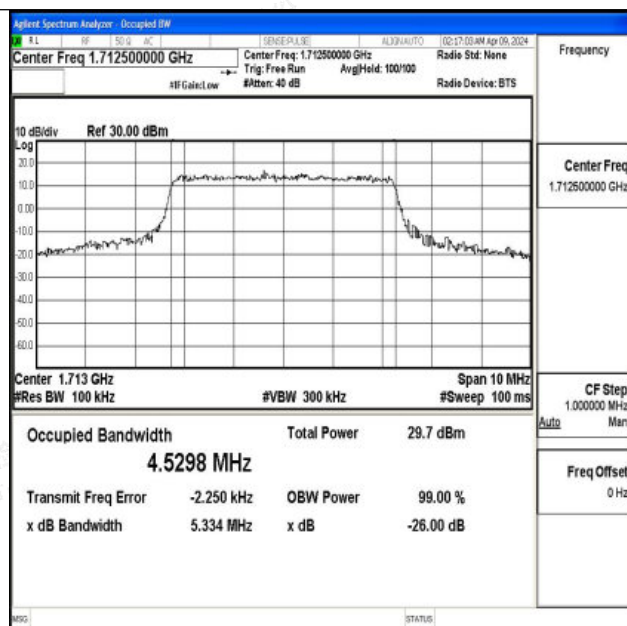
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

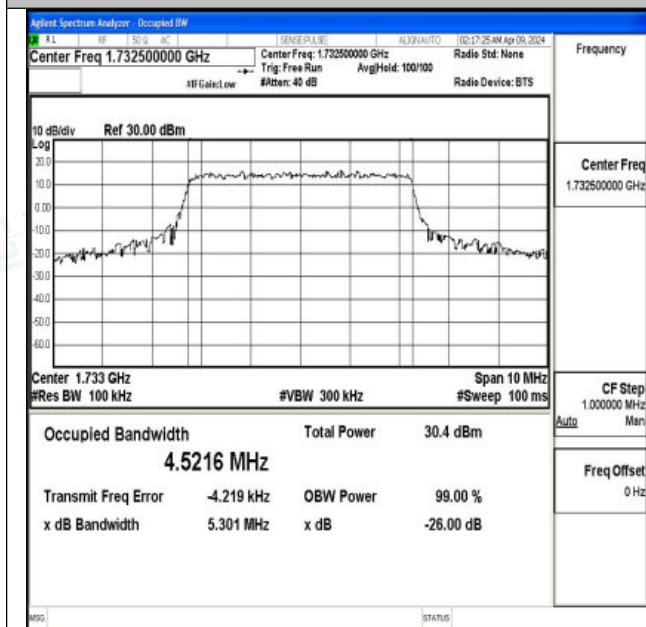
Scan code to check authenticity



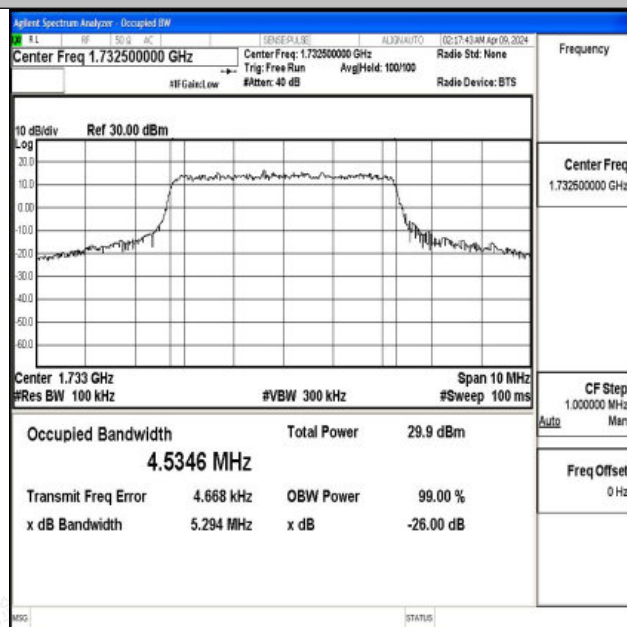
Band4-5MHz-QPSK-19975-25RB#0-PASS



Band4-5MHz-16QAM-19975-25RB#0-PASS



Band4-5MHz-QPSK-20175-25RB#0-PASS



Band4-5MHz-16QAM-20175-25RB#0-PASS

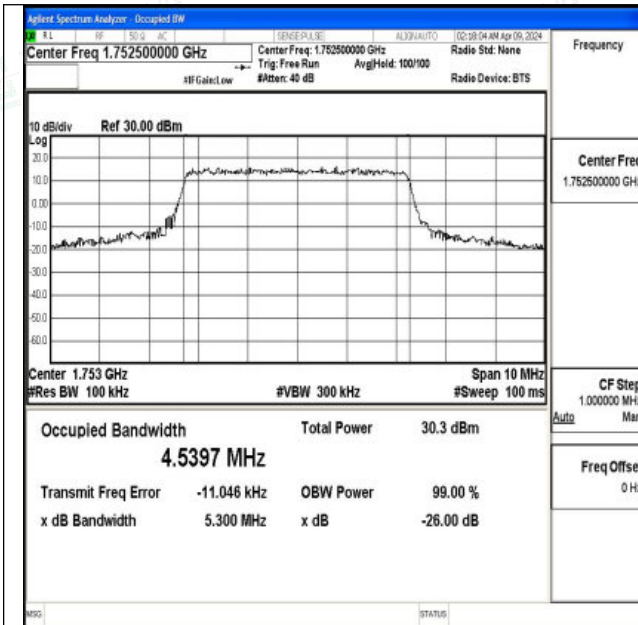


Shenzhen LCS Compliance Testing Laboratory Ltd.

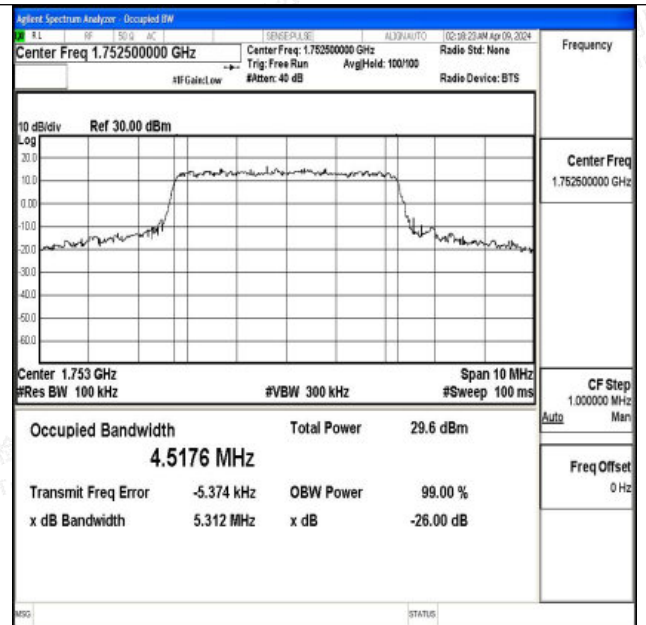
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

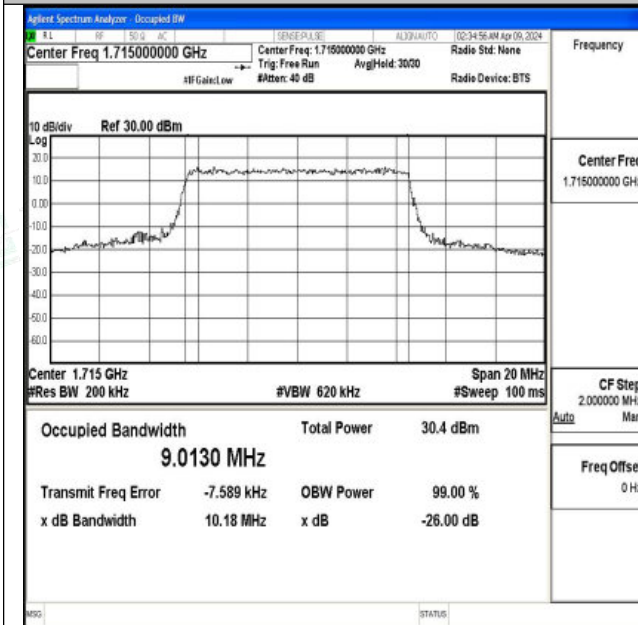
Scan code to check authenticity



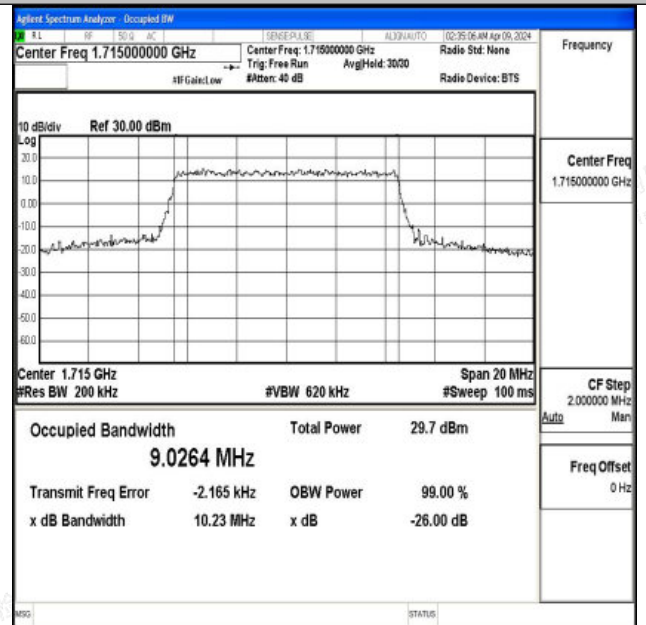
Band4-5MHz-QPSK-20375-25RB#0-PASS



Band4-5MHz-16QAM-20375-25RB#0-PASS



Band4-10MHz-QPSK-20000-50RB#0-PASS



Band4-10MHz-16QAM-20000-50RB#0-PASS

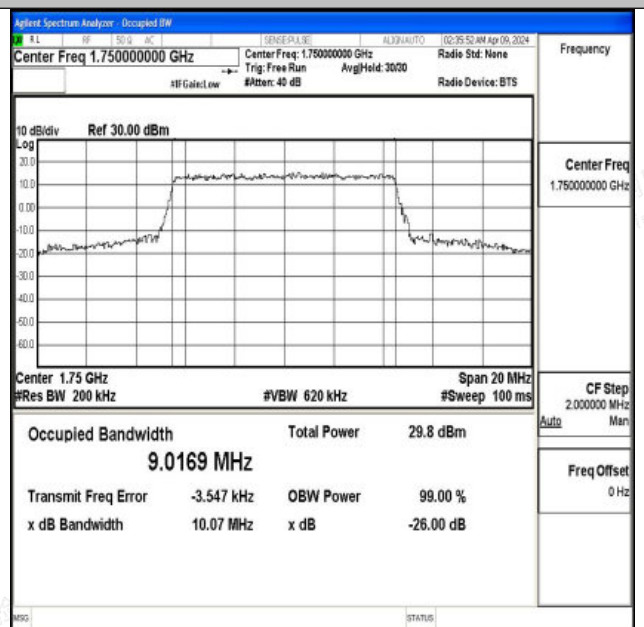
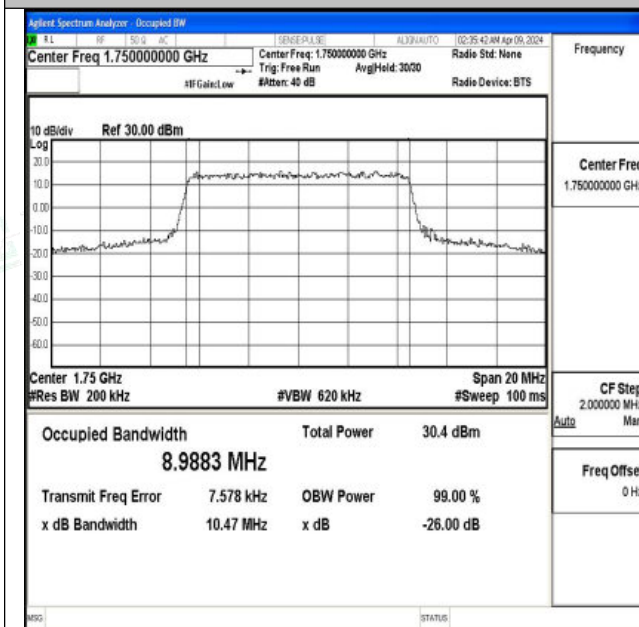
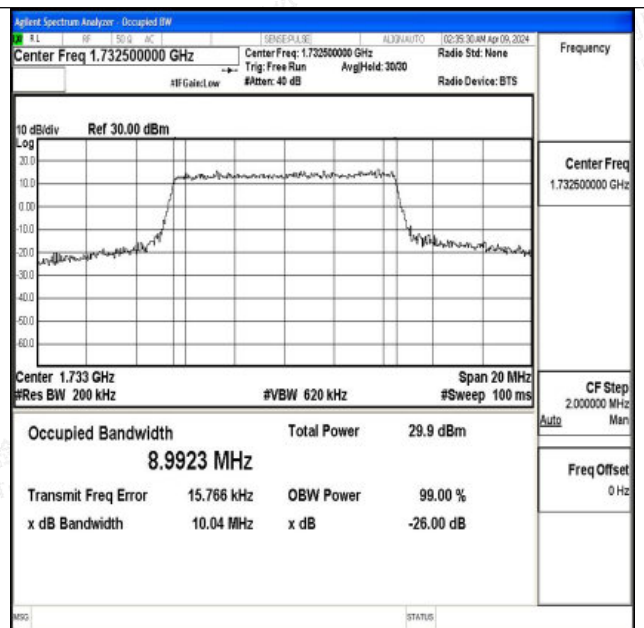
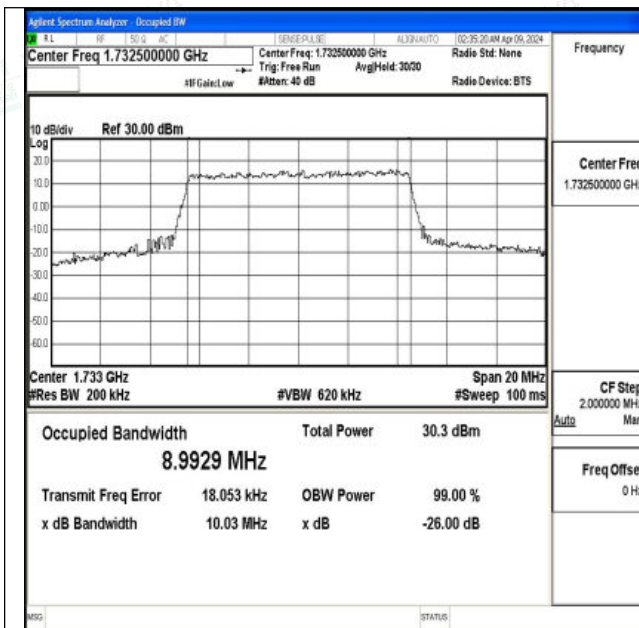


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

Scan code to check authenticity

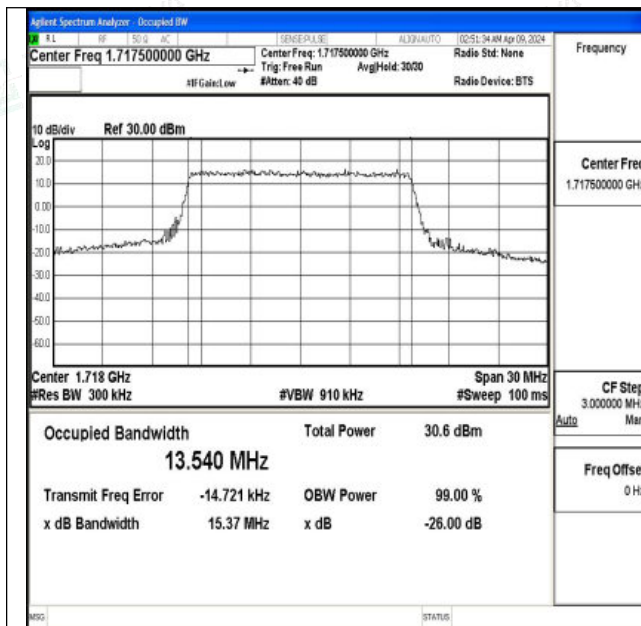


Shenzhen LCS Compliance Testing Laboratory Ltd.

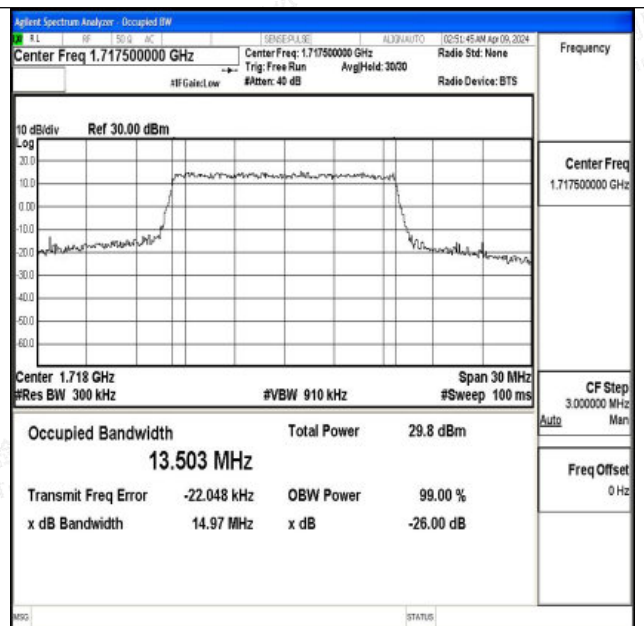
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

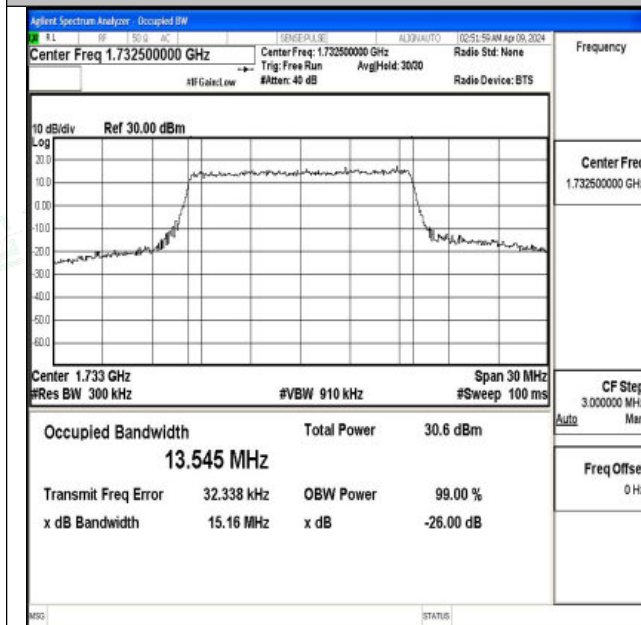
Scan code to check authenticity



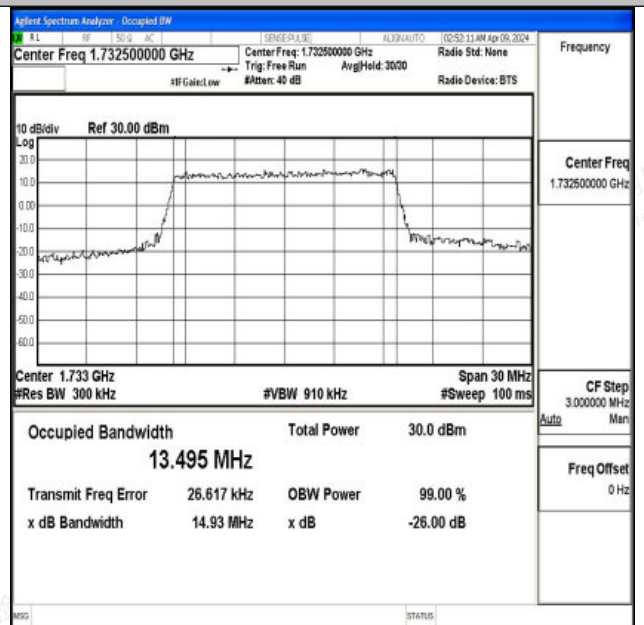
Band4-15MHz-QPSK-20025-75RB#0-PASS



Band4-15MHz-16QAM-20025-75RB#0-PASS



Band4-15MHz-QPSK-20175-75RB#0-PASS



Band4-15MHz-16QAM-20175-75RB#0-PASS

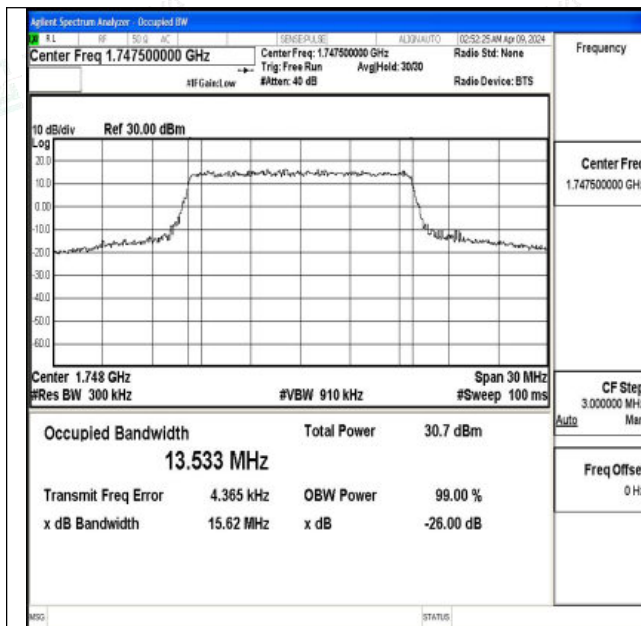


Shenzhen LCS Compliance Testing Laboratory Ltd.

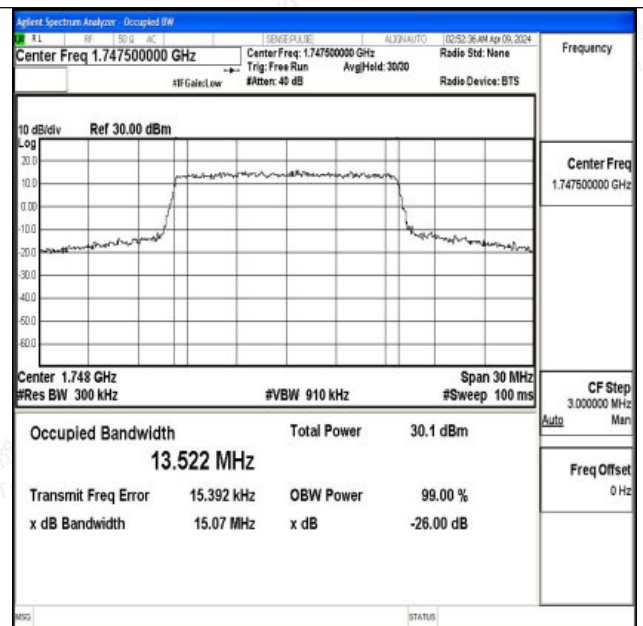
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

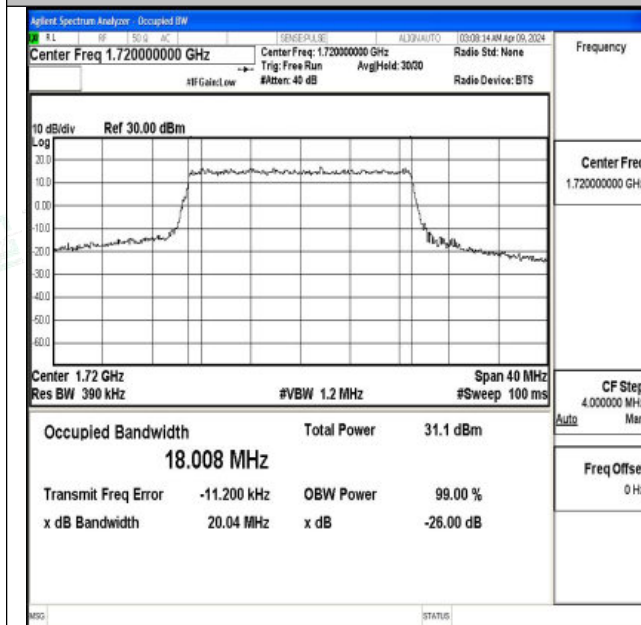
Scan code to check authenticity



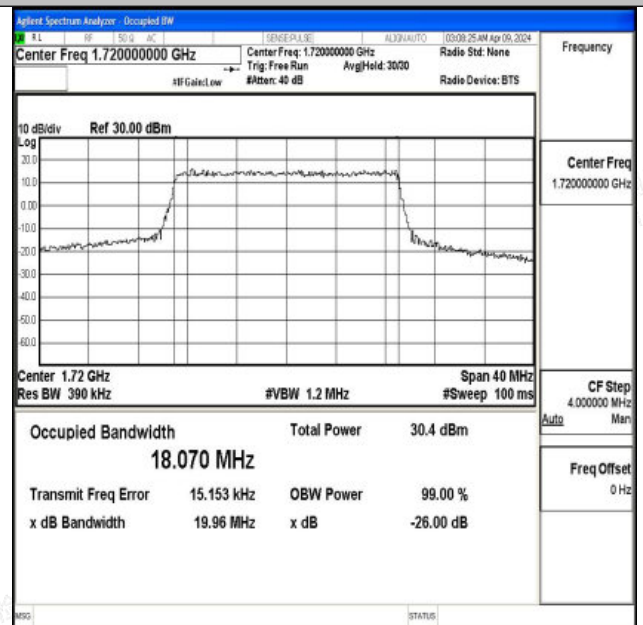
Band4-15MHz-QPSK-20325-75RB#0-PASS



Band4-15MHz-16QAM-20325-75RB#0-PASS



Band4-20MHz-QPSK-20050-100RB#0-PASS



Band4-20MHz-16QAM-20050-100RB#0-PASS

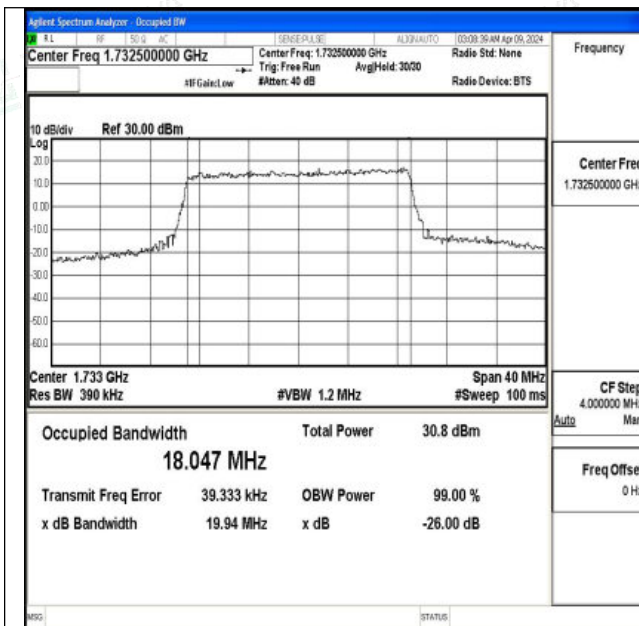


Shenzhen LCS Compliance Testing Laboratory Ltd.

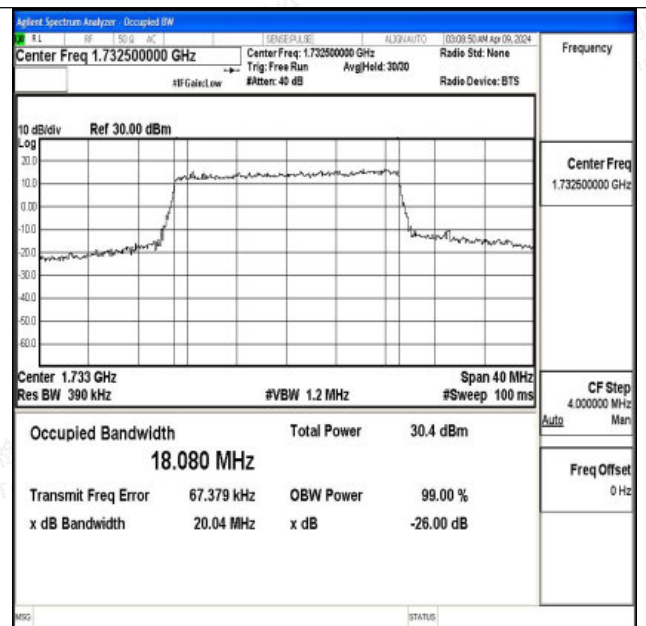
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

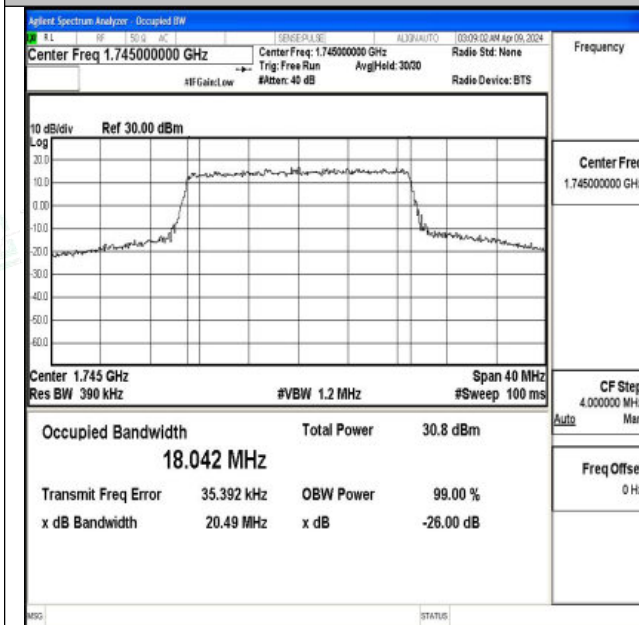
Scan code to check authenticity



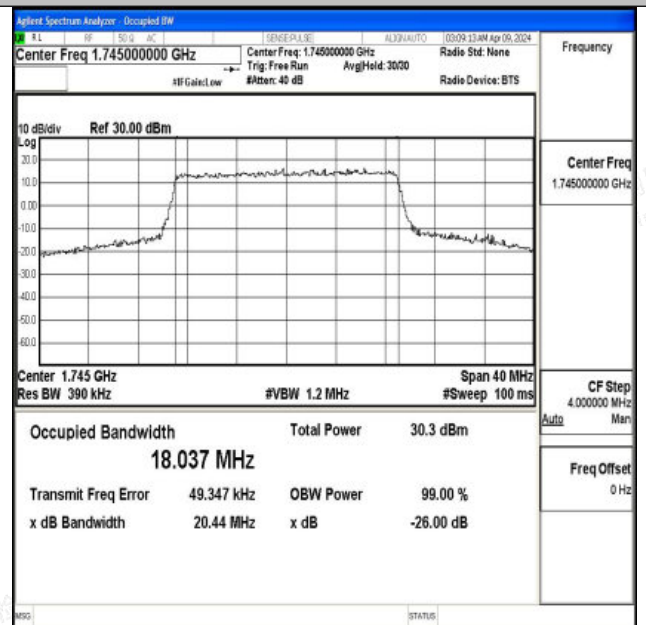
Band4-20MHz-QPSK-20175-100RB#0-PASS



Band4-20MHz-16QAM-20175-100RB#0-PASS



Band4-20MHz-QPSK-20300-100RB#0-PASS



Band4-20MHz-16QAM-20300-100RB#0-PASS



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

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

Scan code to check authenticity



## B.4 Band Edge

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | -24.25      | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | -25.90      | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | -24.81      | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | -25.62      | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | -21.72      | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | -23.15      | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | -22.81      | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | -23.24      | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | -25.21      | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | -25.42      | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | -25.30      | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | -25.65      | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | -26.49      | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 50RB#0           | -27.76      | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | -24.86      | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 50RB#0           | -26.55      | PASS    |
| Band4 | 15MHz     | QPSK       | 20025   | 75RB#0           | -25.70      | PASS    |
| Band4 | 15MHz     | 16QAM      | 20025   | 75RB#0           | -27.38      | PASS    |
| Band4 | 15MHz     | QPSK       | 20325   | 75RB#0           | -24.11      | PASS    |
| Band4 | 15MHz     | 16QAM      | 20325   | 75RB#0           | -25.61      | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | -26.10      | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0          | -27.85      | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0          | -24.52      | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0          | -25.84      | 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

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

Scan code to check authenticity