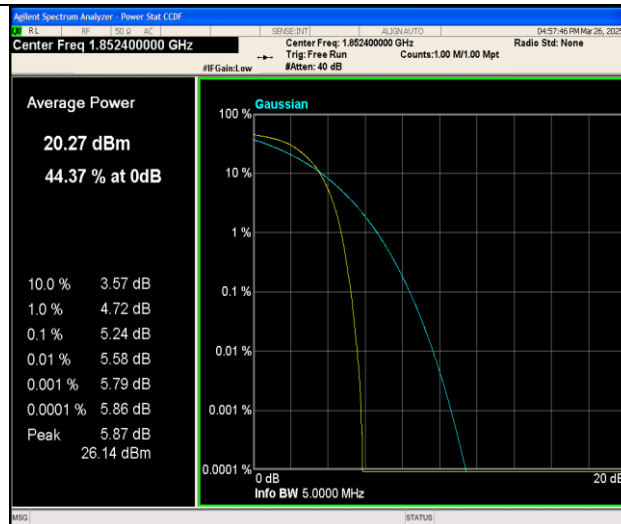
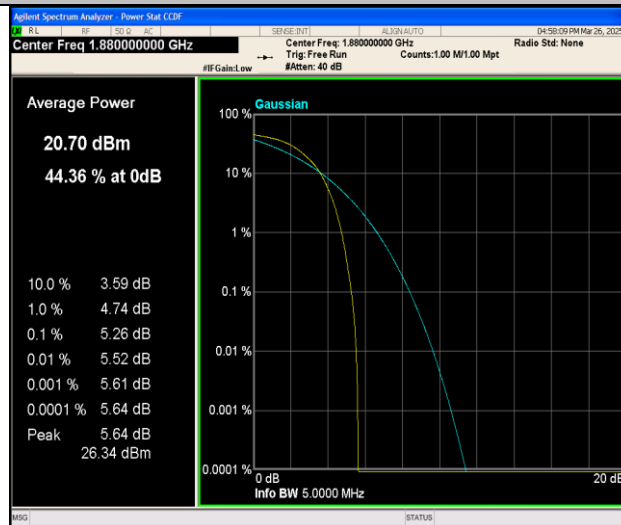
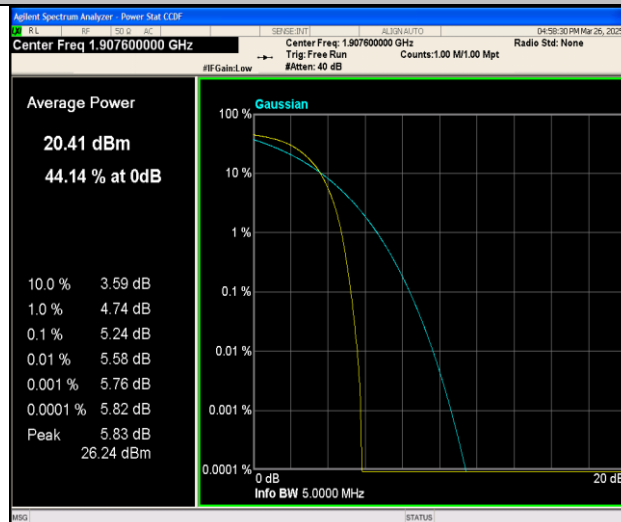




Band2-9262-4-PASS



Band2-9400-4-PASS



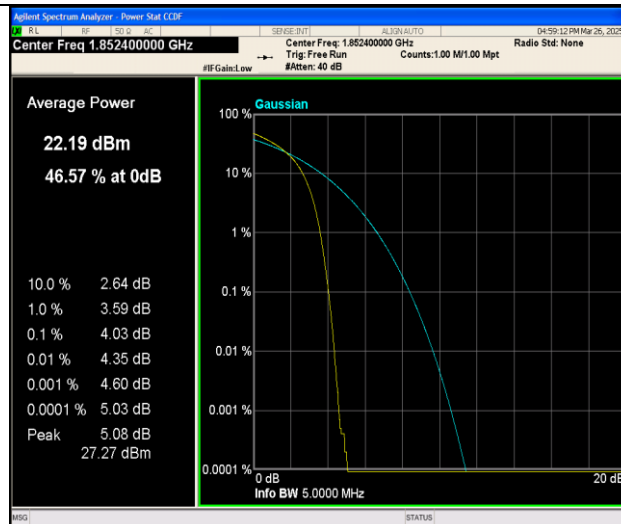
Band2-9538-4-PASS

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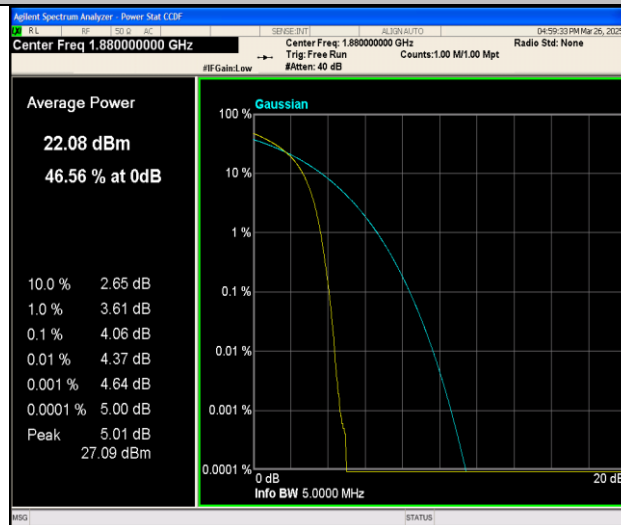
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China  
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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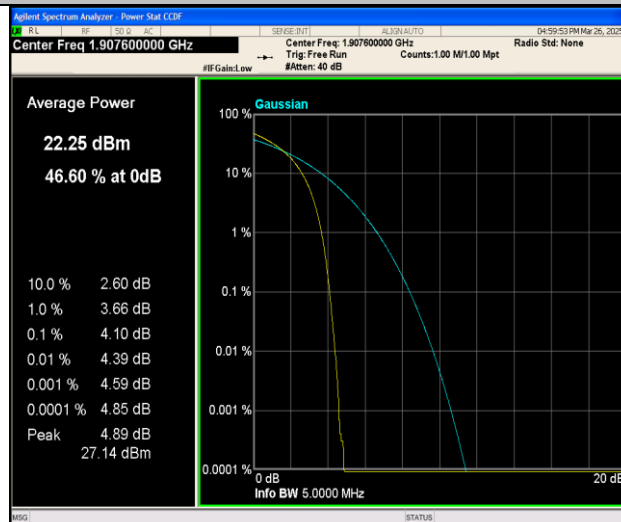
For anti-fake verification, please visit the official website of China Inspection And Testing Society : [yz.cnca.cn](http://www.cnca.cn)



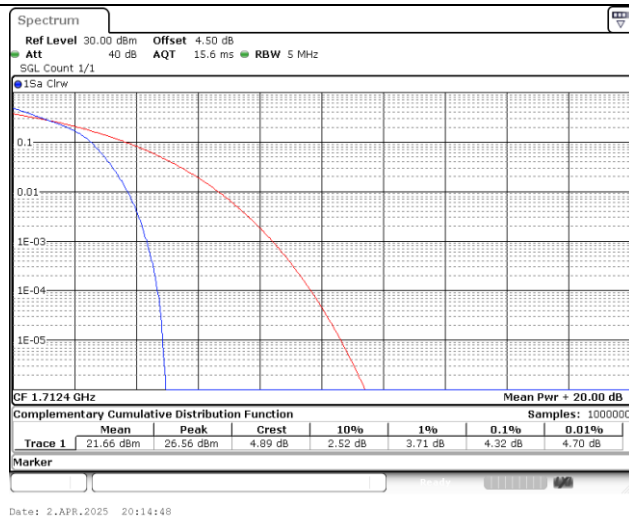
Band2-9262-5-PASS



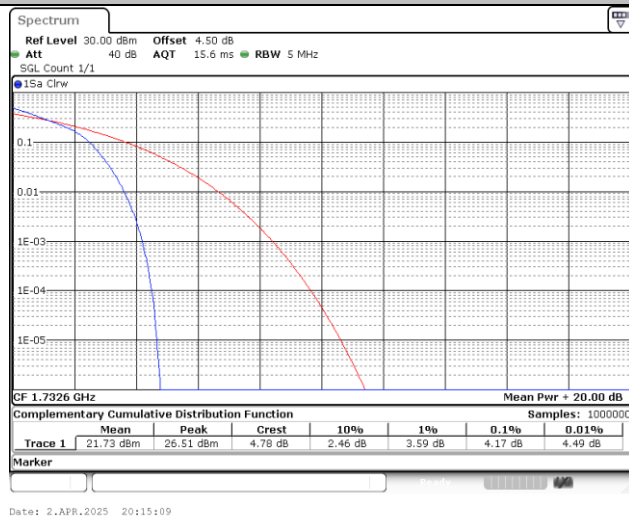
Band2-9400-5-PASS



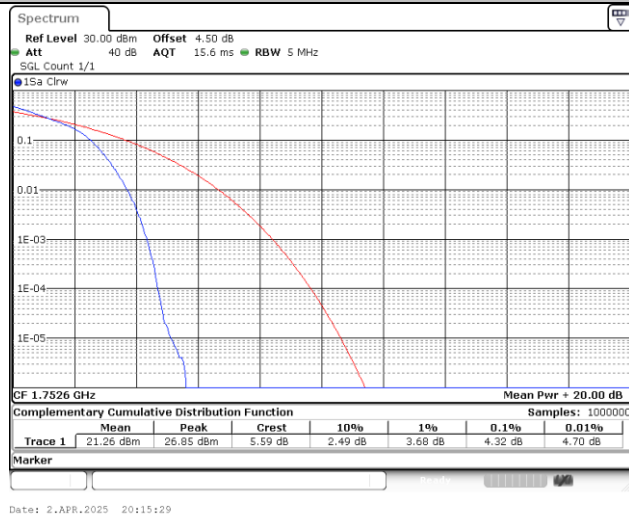
Band2-9538-5-PASS



## Band4-1312-1-PASS



## Band4-1413-1-PASS



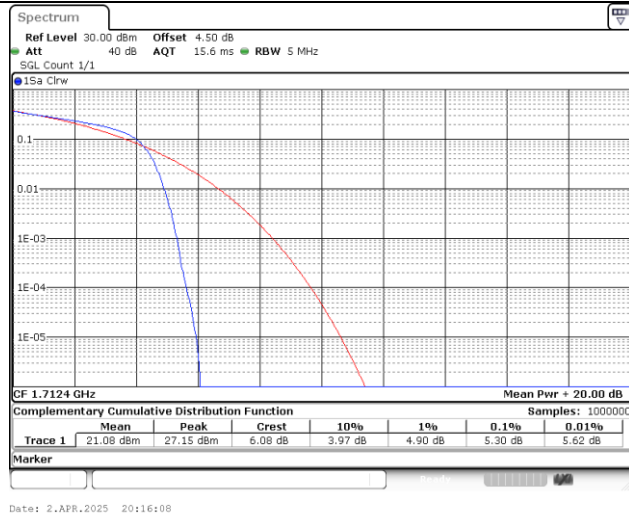
## Band4-1513-1-PASS

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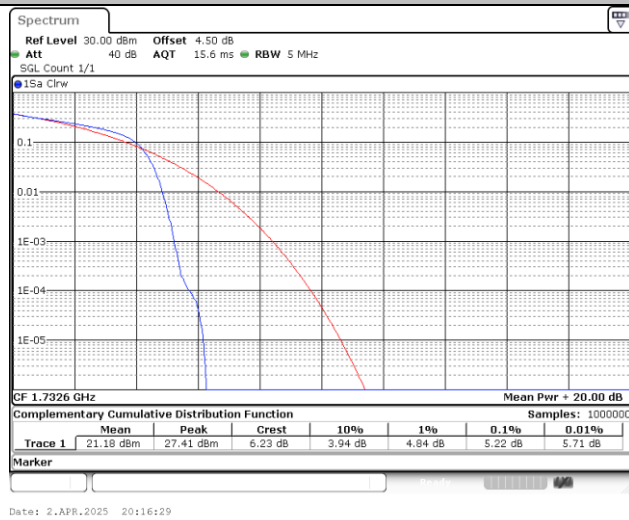
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057\_A1

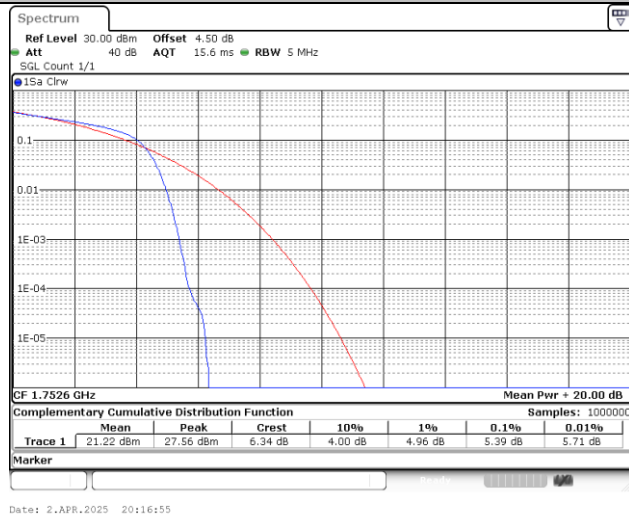
For anti-fake verification, please visit the official website of China Inspection And Testing Society : [yz.cnca.cn](http://yz.cnca.cn)



## Band4-1312-2-PASS



## Band4-1413-2-PASS



## Band4-1513-2-PASS

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TRF No: CTC-TR-057\_A1

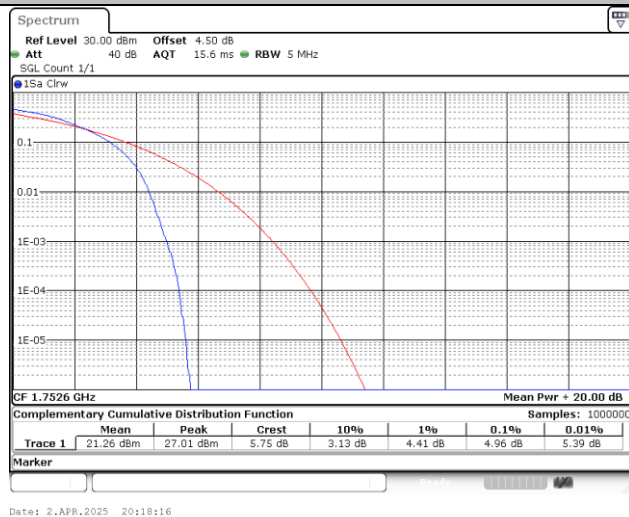
For anti-fake verification, please visit the official website of China Inspection And Testing Society : [yz.cnca.cn](http://yz.cnca.cn)



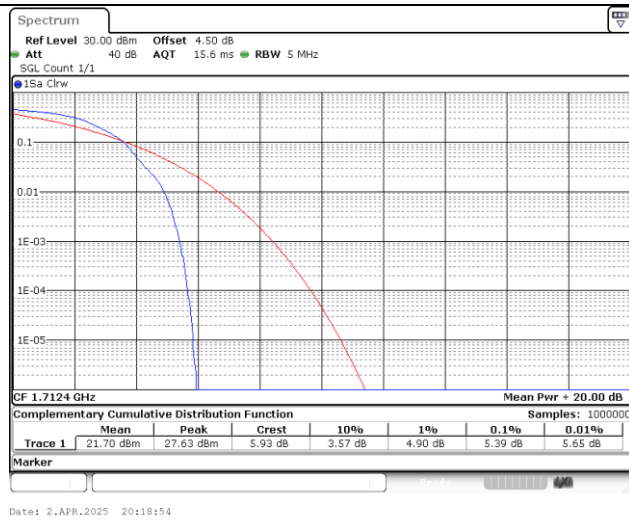
## Band4-1312-3-PASS



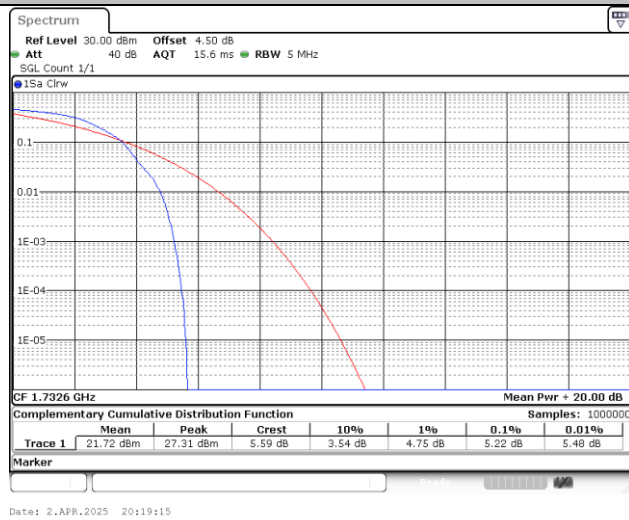
## Band4-1413-3-PASS



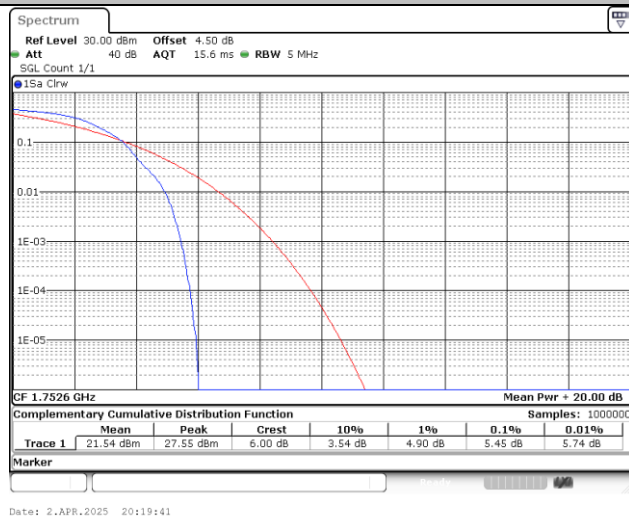
## Band4-1513-3-PASS



## Band4-1312-4-PASS

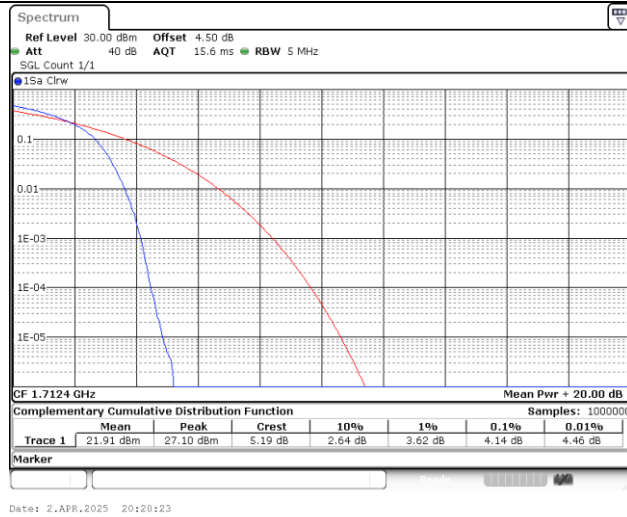


## Band4-1413-4-PASS

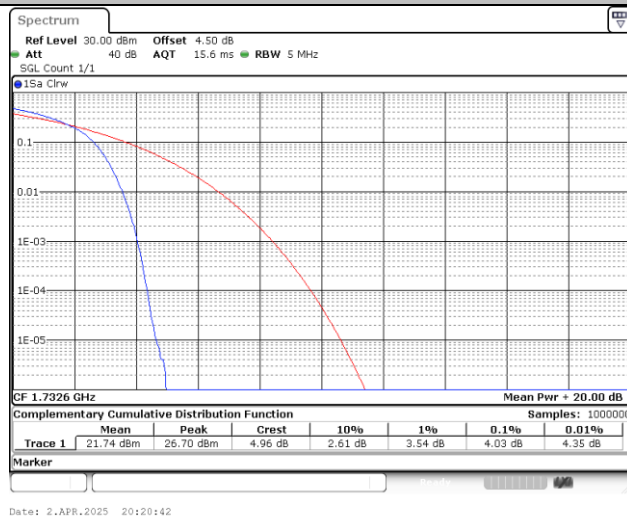


## Band4-1513-4-PASS

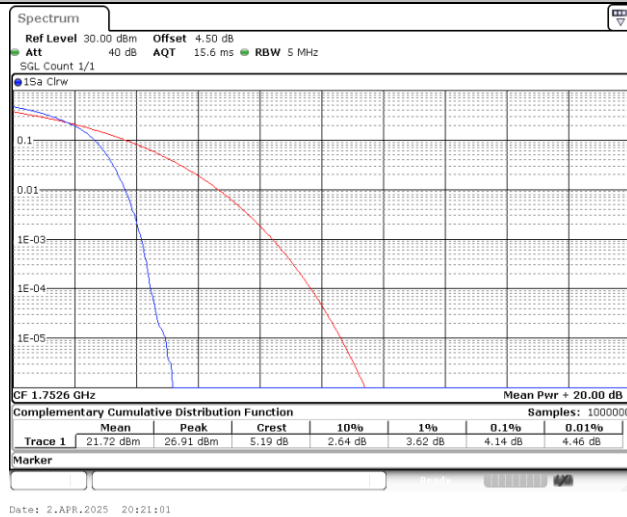




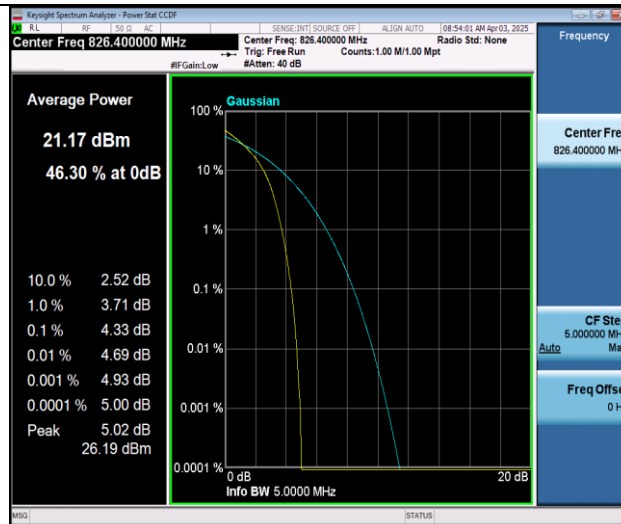
## Band4-1312-5-PASS



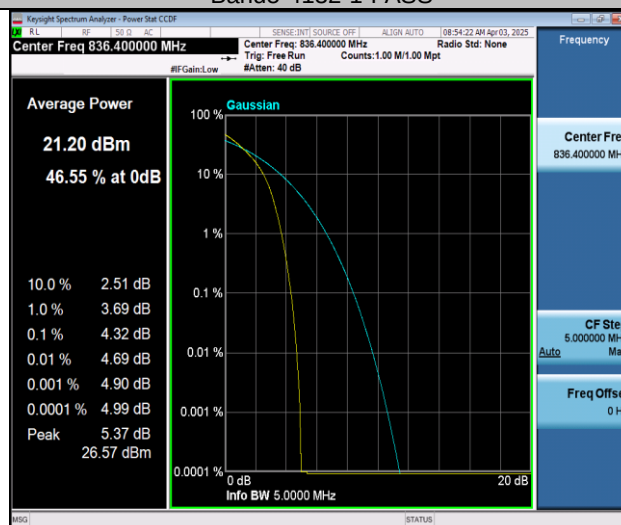
## Band4-1413-5-PASS



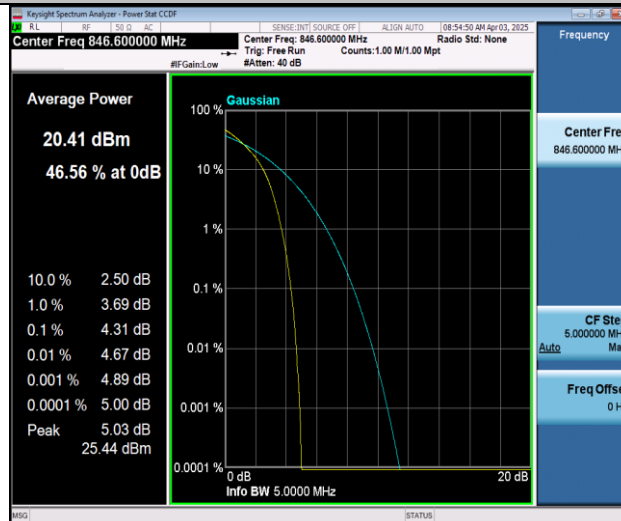
## Band4-1513-5-PASS



Band5-4132-1-PASS



Band5-4182-1-PASS



Band5-4233-1-PASS

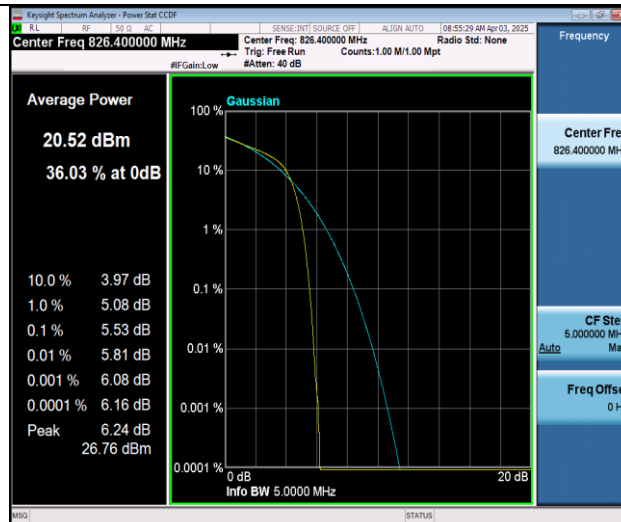
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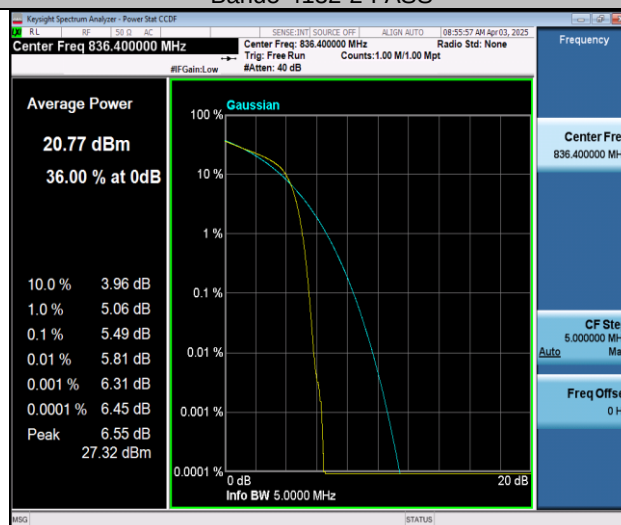
TRF No: CTC-TR-057\_A1

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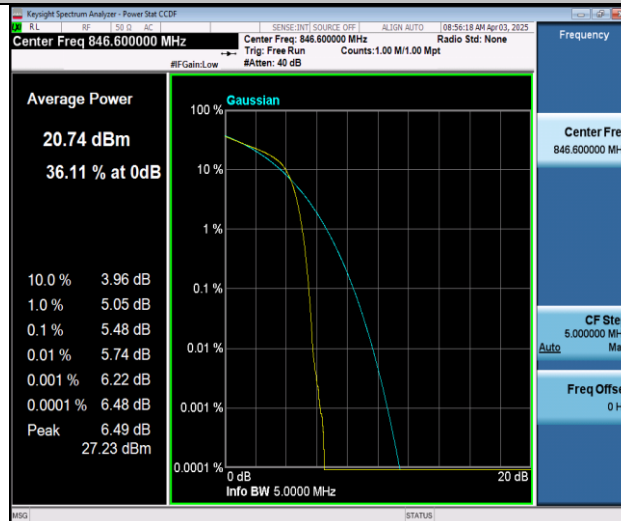




Band5-4132-2-PASS



Band5-4182-2-PASS



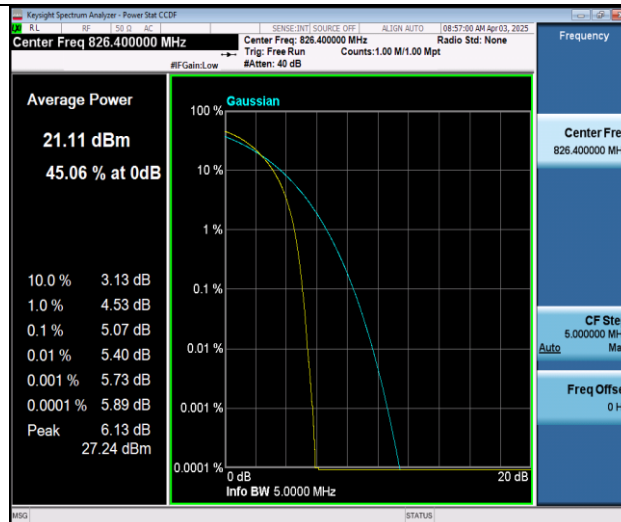
Band5-4233-2-PASS

CTC Laboratories, Inc.

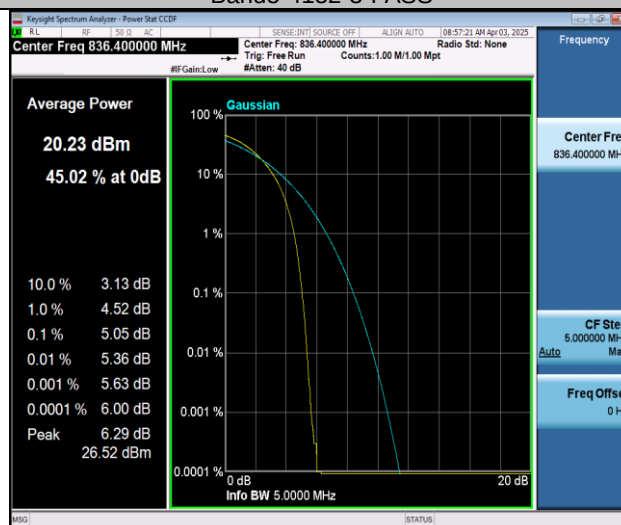
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057\_A1

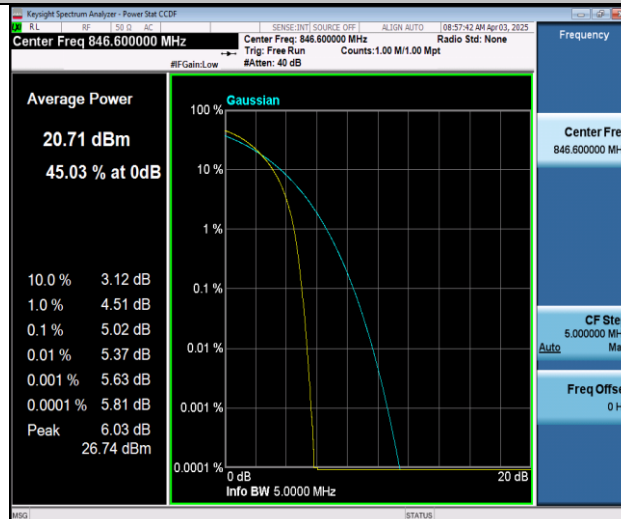
For anti-fake verification, please visit the official website of China Inspection And Testing Society : [yz.cnca.cn](http://yz.cnca.cn)



Band5-4132-3-PASS



Band5-4182-3-PASS



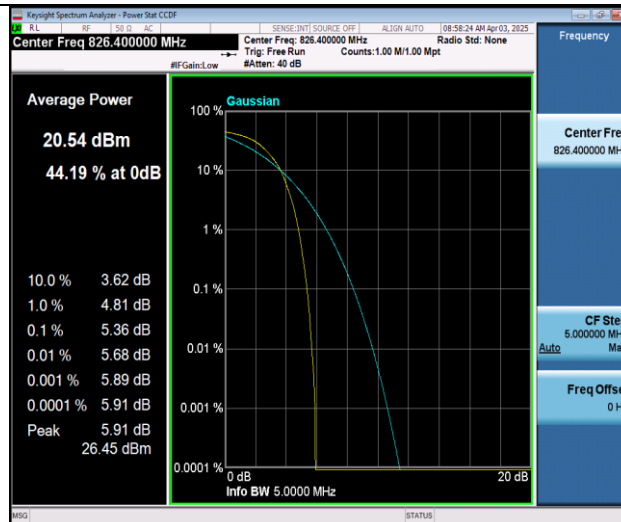
Band5-4233-3-PASS

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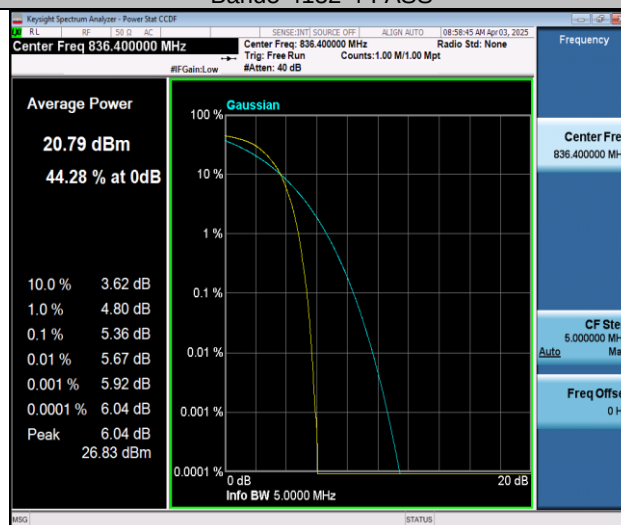
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TRF No: CTC-TR-057\_A1

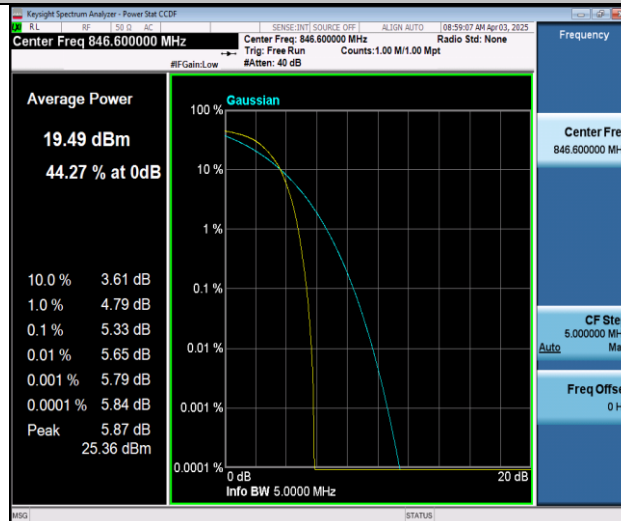
For anti-fake verification, please visit the official website of China Inspection And Testing Society : [yz.cnca.cn](http://yz.cnca.cn)



Band5-4132-4-PASS



Band5-4182-4-PASS



Band5-4233-4-PASS

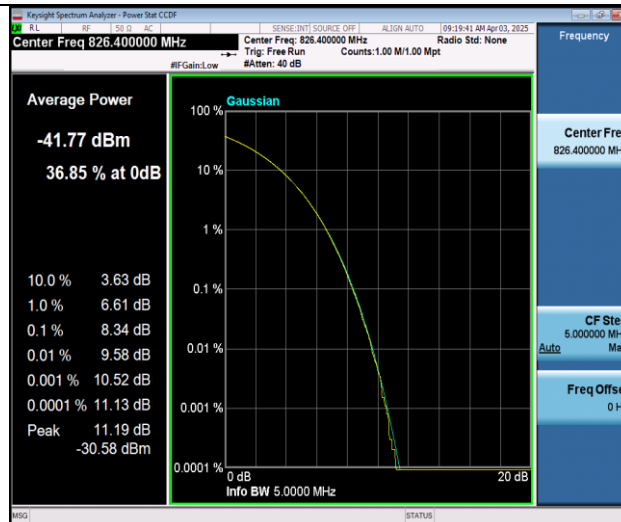
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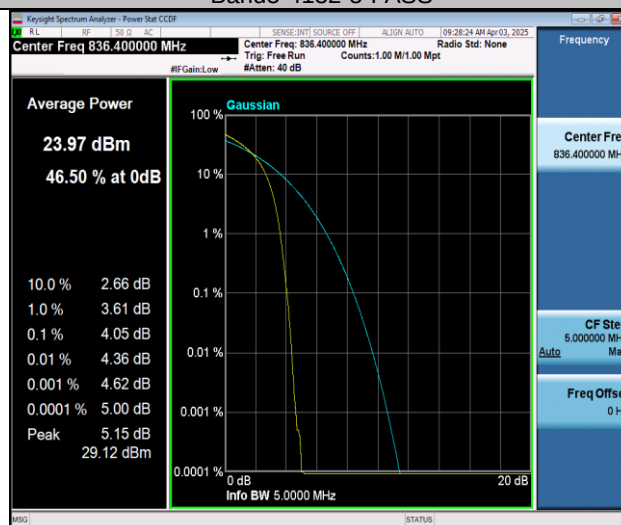
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

For anti-fake verification, please visit the official website of China Inspection And Testing Society : [yz.cnca.cn](http://yz.cnca.cn)

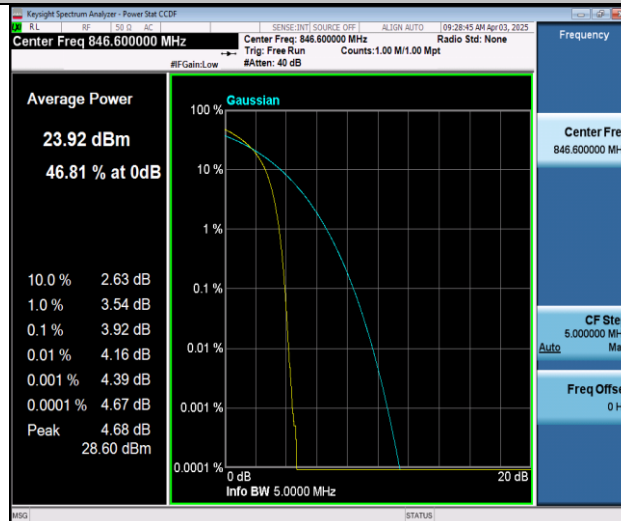
TRF No: CTC-TR-057\_A1



Band5-4132-5-PASS



Band5-4182-5-PASS



Band5-4233-5-PASS

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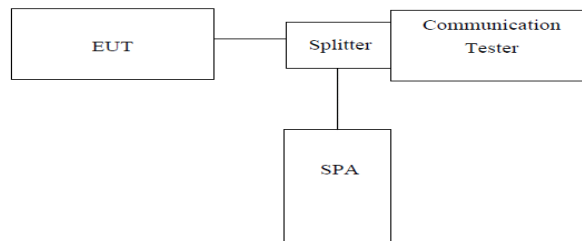
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### 3.3. Occupy Bandwidth

#### LIMIT

For reporting purposes only.

#### TEST CONFIGURATION



*Note: Measurement setup for testing on Antenna connector*

#### TEST PROCEDURE

1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
2. RBW was set to about 1% of emission BW,  $VBW \geq 3$  times RBW.
3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

#### TEST RESULTS

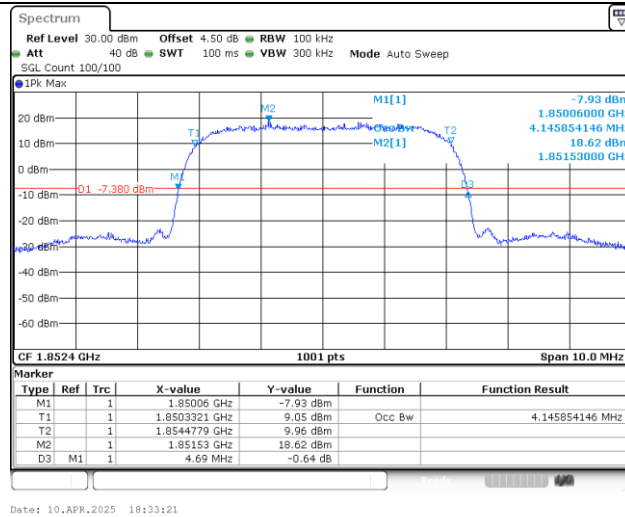


| EUT Mode             | Channel | Frequency (MHz) | 99% Occupy bandwidth (MHz) | -26dB bandwidth (MHz) |
|----------------------|---------|-----------------|----------------------------|-----------------------|
| WCDMA Band II (QPSK) | 9262    | 1852.40         | 4.146                      | 4.69                  |
|                      | 9400    | 1880.00         | 4.146                      | 4.69                  |
|                      | 9538    | 1907.60         | 4.156                      | 4.69                  |
| WCDMA Band IV (QPSK) | 1312    | 1712.40         | 4.1557                     | 4.678                 |
|                      | 1413    | 1732.60         | 4.1530                     | 4.681                 |
|                      | 1513    | 1752.60         | 4.1533                     | 4.670                 |
| WCDMA Band V (QPSK)  | 4132    | 826.40          | 4.1520                     | 4.672                 |
|                      | 4183    | 836.60          | 4.1490                     | 4.675                 |
|                      | 4233    | 846.60          | 4.1433                     | 4.659                 |

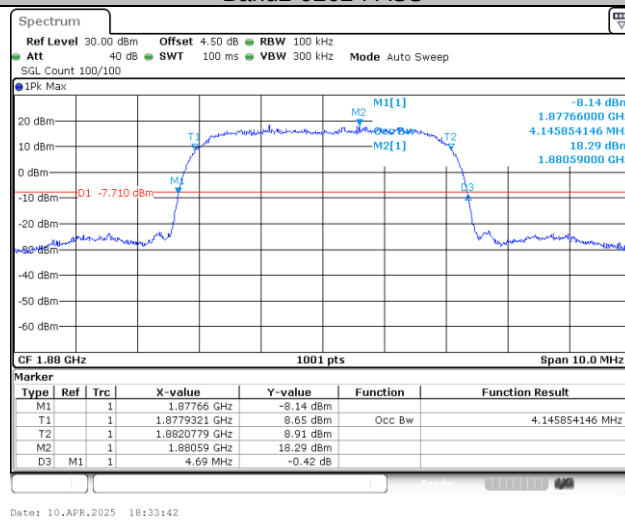




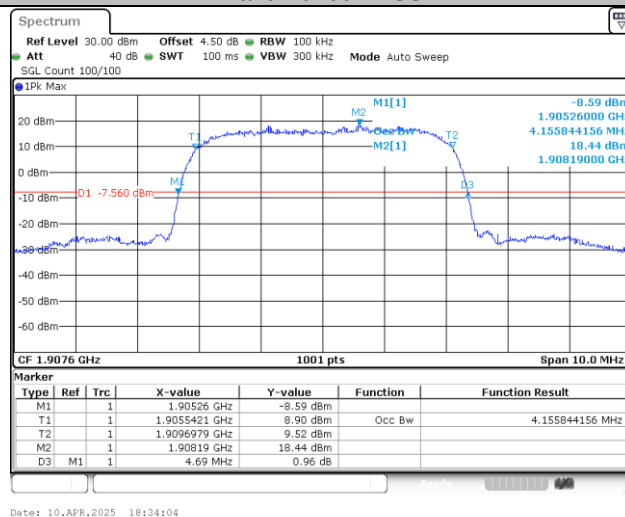
## Test Graphs



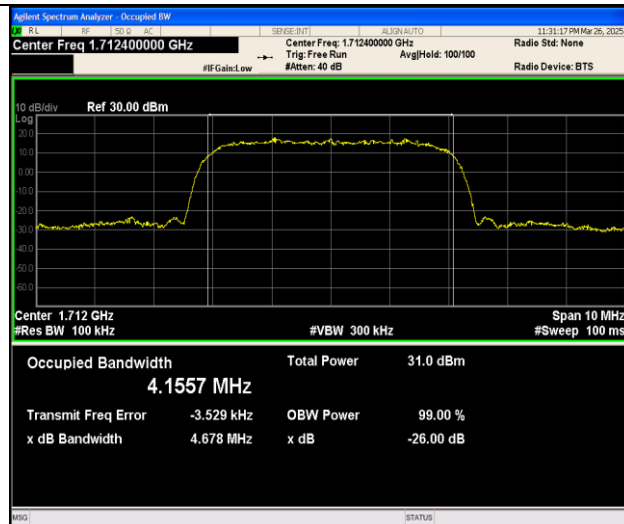
## Band2-9262-PASS



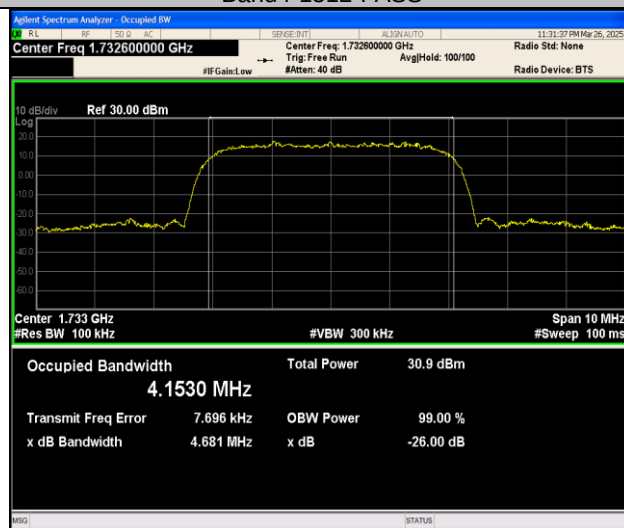
## Band2-9400-PASS



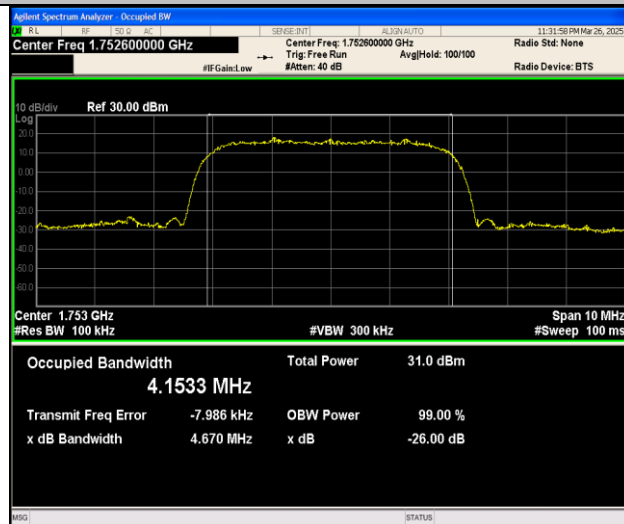
## Band2-9538-PASS



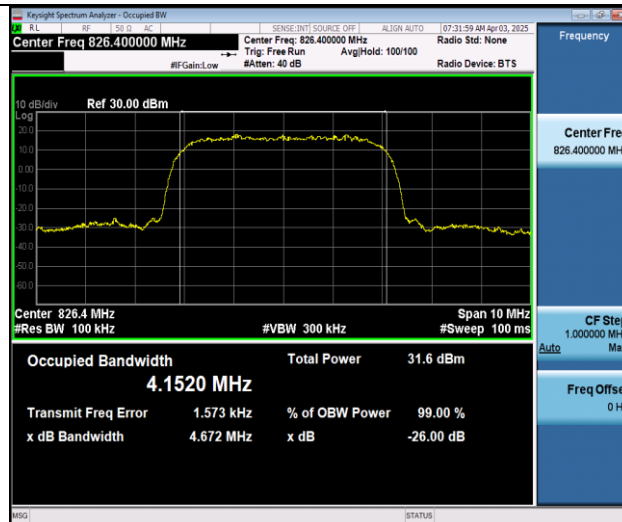
Band4-1312-PASS



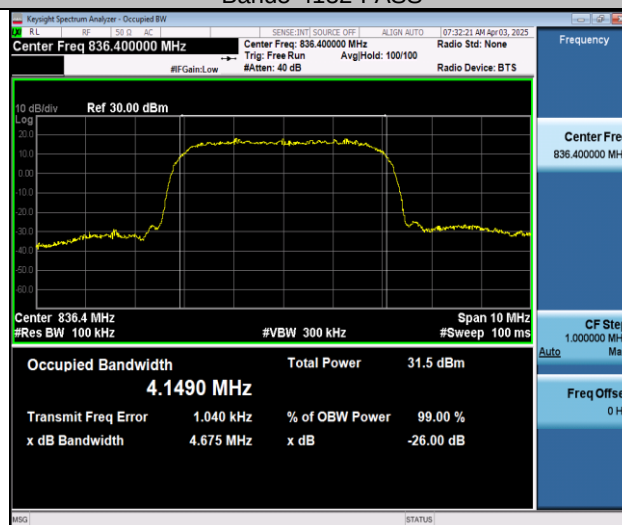
Band4-1413-PASS



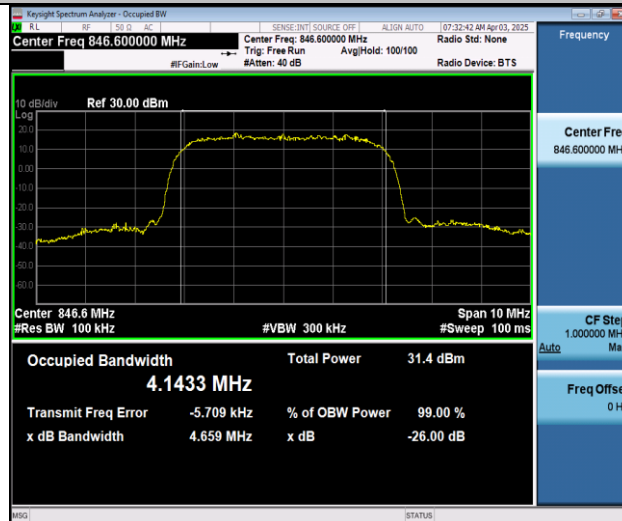
Band4-1513-PASS



Band5-4132-PASS



Band5-4182-PASS



Band5-4233-PASS

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### 3.4. Out Of Band Emissions

#### LIMIT

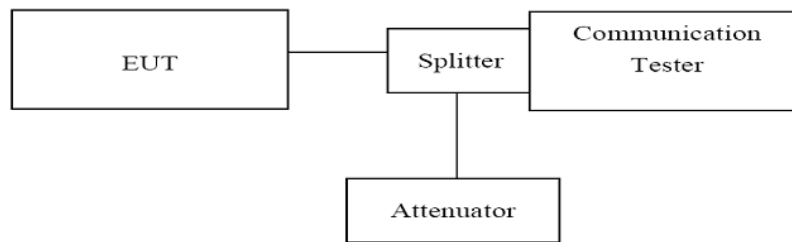
FCC: §22.917, §24.238, §27.53 (h), §90.691

The minimum permissible attenuation level of any spurious emissions is  $43 + 10 \log (P)$  dB where transmitting power (P) in Watts.

RSS132§5.5, RSS133§6.5, RSS139§6.6

The minimum permissible attenuation level of any spurious emissions is  $43 + 10 \log (P)$  dB where transmitting power (P) in Watts.

#### TEST CONFIGURATION



#### TEST PROCEDURE

1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. Sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

#### TEST RESULTS

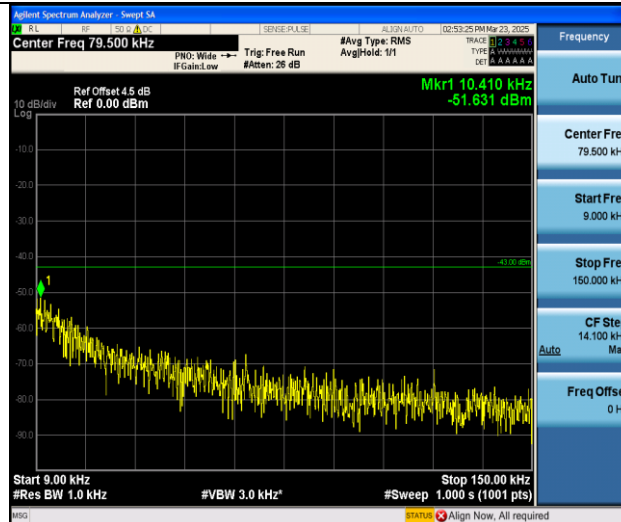
Remark: We test all modulation type and record worst case at Voice mode for WCDMA.



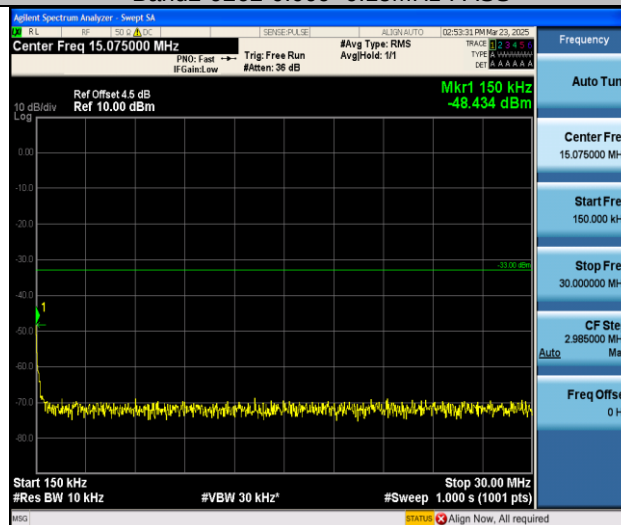
| Band  | Channel | Frequency Range (MHz) | Frequency (dBm) | Result (dBm) | Limit (dBm) | Verdict |
|-------|---------|-----------------------|-----------------|--------------|-------------|---------|
| Band2 | 9262    | 0.009~0.15MHz         | 0.01            | -51.63       | -43         | PASS    |
| Band2 | 9262    | 0.15~30MHz            | 0.15            | -48.43       | -33         | PASS    |
| Band2 | 9262    | 30~1000MHz            | 923.86          | -49.97       | -13         | PASS    |
| Band2 | 9262    | 1000~20000MHz         | 16863.1         | -38.25       | -13         | PASS    |
| Band2 | 9400    | 0.009~0.15MHz         | 0.01            | -51.06       | -43         | PASS    |
| Band2 | 9400    | 0.15~30MHz            | 0.15            | -47.72       | -33         | PASS    |
| Band2 | 9400    | 30~1000MHz            | 920.95          | -49.94       | -13         | PASS    |
| Band2 | 9400    | 1000~20000MHz         | 16411.85        | -38.12       | -13         | PASS    |
| Band2 | 9538    | 0.009~0.15MHz         | 0.01            | -52.17       | -43         | PASS    |
| Band2 | 9538    | 0.15~30MHz            | 0.15            | -48.94       | -33         | PASS    |
| Band2 | 9538    | 30~1000MHz            | 838.5           | -50          | -13         | PASS    |
| Band2 | 9538    | 1000~20000MHz         | 16885.43        | -38.06       | -13         | PASS    |
| Band4 | 1312    | 0.009~0.15MHz         | 0.01            | -53.62       | -43         | PASS    |
| Band4 | 1312    | 0.15~30MHz            | 0.15            | -46.96       | -33         | PASS    |
| Band4 | 1312    | 30~1000MHz            | 390.36          | -50.18       | -13         | PASS    |
| Band4 | 1312    | 1000~20000MHz         | 16780.45        | -39.82       | -13         | PASS    |
| Band4 | 1413    | 0.009~0.15MHz         | 0.01            | -52.55       | -43         | PASS    |
| Band4 | 1413    | 0.15~30MHz            | 0.15            | -48.14       | -33         | PASS    |
| Band4 | 1413    | 30~1000MHz            | 900.09          | -50.16       | -13         | PASS    |
| Band4 | 1413    | 1000~20000MHz         | 16785.68        | -39.16       | -13         | PASS    |
| Band4 | 1513    | 0.009~0.15MHz         | 0.01            | -50.36       | -43         | PASS    |
| Band4 | 1513    | 0.15~30MHz            | 0.15            | -48.64       | -33         | PASS    |
| Band4 | 1513    | 30~1000MHz            | 413.15          | -50.05       | -13         | PASS    |
| Band4 | 1513    | 1000~20000MHz         | 16787.1         | -40.08       | -13         | PASS    |
| Band5 | 4132    | 0.009~0.15MHz         | 0.01            | -59.11       | -33         | PASS    |
| Band5 | 4132    | 0.15~30MHz            | 0.15            | -54.63       | -23         | PASS    |
| Band5 | 4132    | 30~1000MHz            | 962.17          | -59.64       | -13         | PASS    |
| Band5 | 4132    | 1000~10000MHz         | 7310.35         | -45.39       | -13         | PASS    |
| Band5 | 4182    | 0.009~0.15MHz         | 0.01            | -59.43       | -33         | PASS    |
| Band5 | 4182    | 0.15~30MHz            | 0.15            | -52.78       | -23         | PASS    |
| Band5 | 4182    | 30~1000MHz            | 982.54          | -59.44       | -13         | PASS    |
| Band5 | 4182    | 1000~10000MHz         | 6465.25         | -45.6        | -13         | PASS    |
| Band5 | 4233    | 0.009~0.15MHz         | 0.01            | -58.71       | -33         | PASS    |
| Band5 | 4233    | 0.15~30MHz            | 0.15            | -52.78       | -23         | PASS    |
| Band5 | 4233    | 30~1000MHz            | 961.2           | -59.74       | -13         | PASS    |
| Band5 | 4233    | 1000~10000MHz         | 6532.75         | -45.59       | -13         | PASS    |



## Test Graphs



Band2-9262-0.009~0.15MHz-PASS



Band2-9262-0.15~30MHz-PASS



Band2-9262-30~1000MHz-PASS

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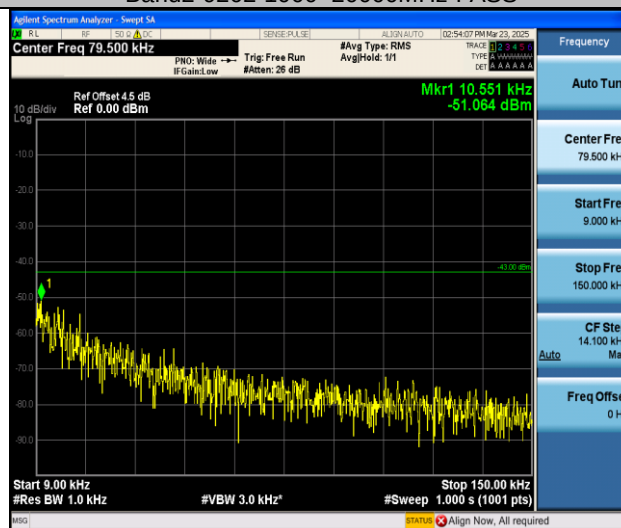
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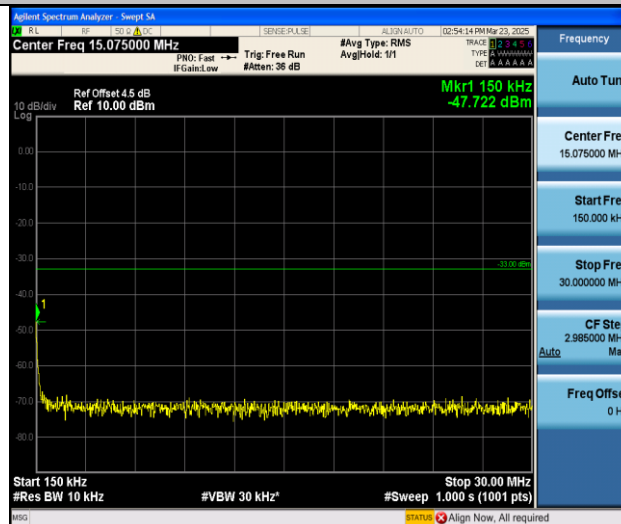
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## Band2-9262-1000~20000MHz-PASS



## Band2-9400-0.009~0.15MHz-PASS



## Band2-9400-0.15~30MHz-PASS

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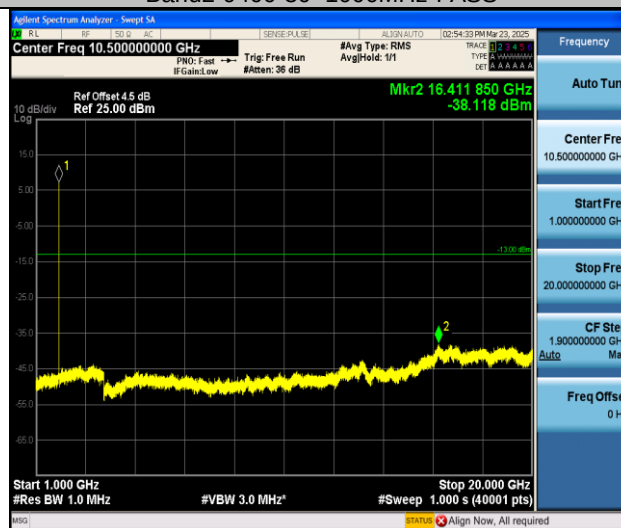
TRF No: CTC-TR-057\_A1

For anti-fake verification, please visit the official website of China Inspection And Testing Society : [yz.cnca.cn](http://yz.cnca.cn)

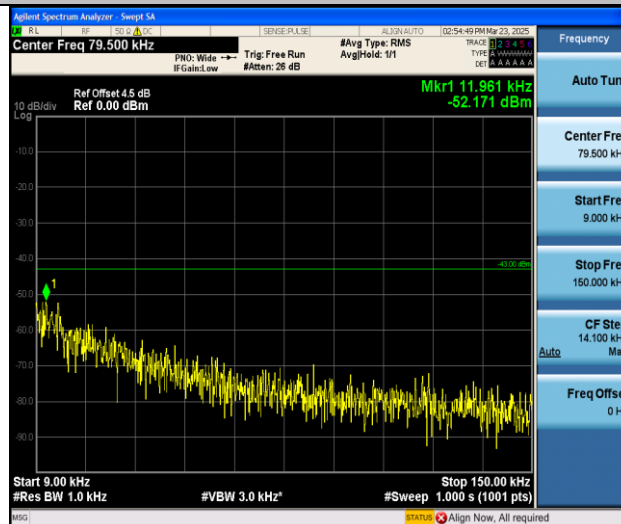




## Band2-9400-30~1000MHz-PASS



## Band2-9400-1000~20000MHz-PASS



## Band2-9538-0.009~0.15MHz-PASS

CTC Laboratories, Inc.

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