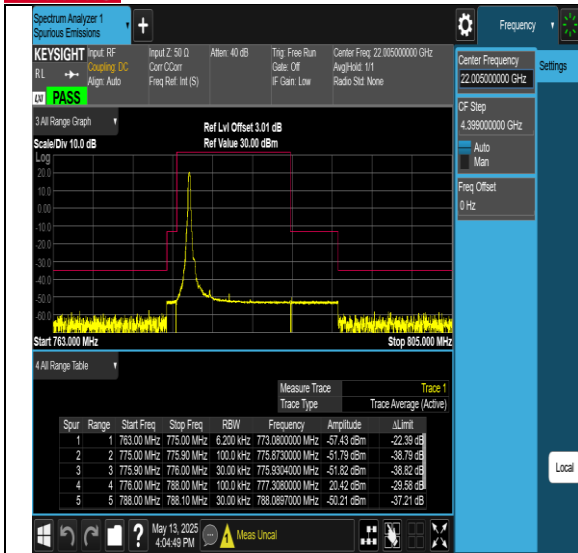


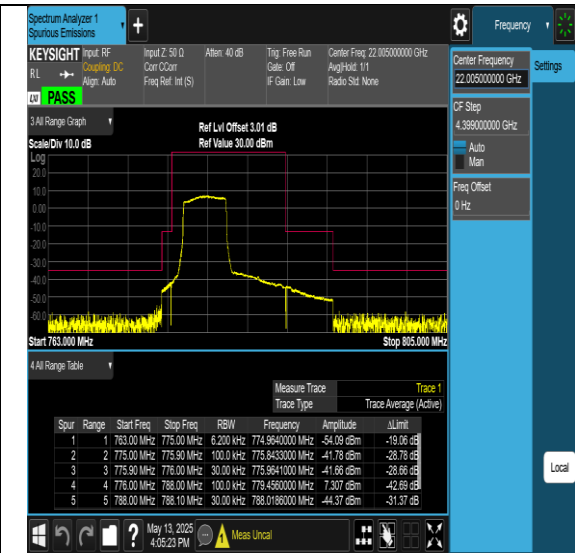


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Test Report No.: PSU-QSU2411180418RF04



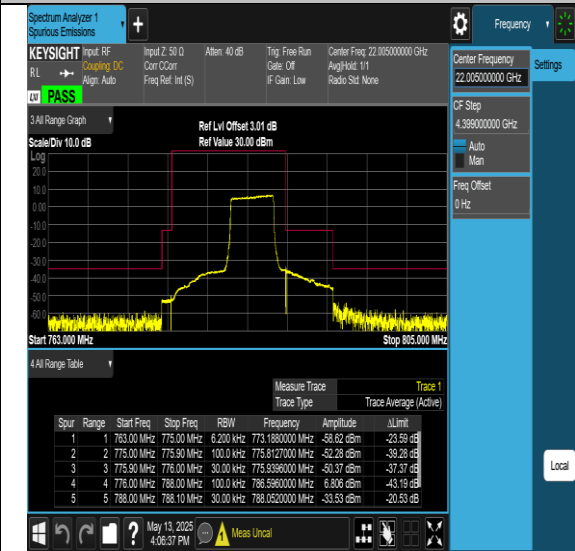
Band13-5MHz-64QAM-23255-1RB#24-PASS



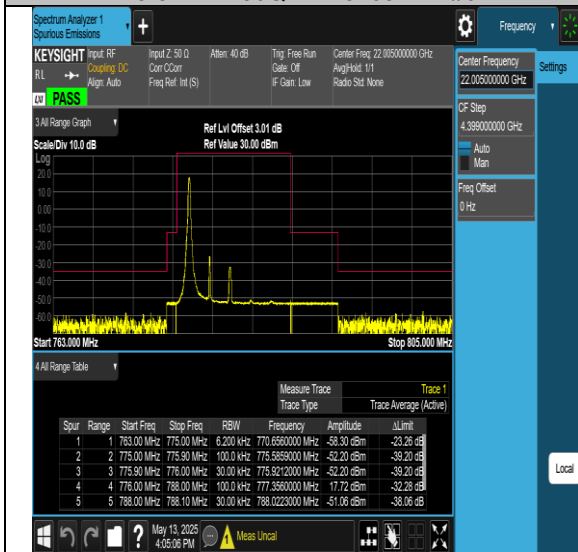
Band13-5MHz-64QAM-23255-25RB#0-PASS



Band13-5MHz-256QAM-23205-1RB#0-PASS



Band13-5MHz-256QAM-23205-25RB#0-PASS



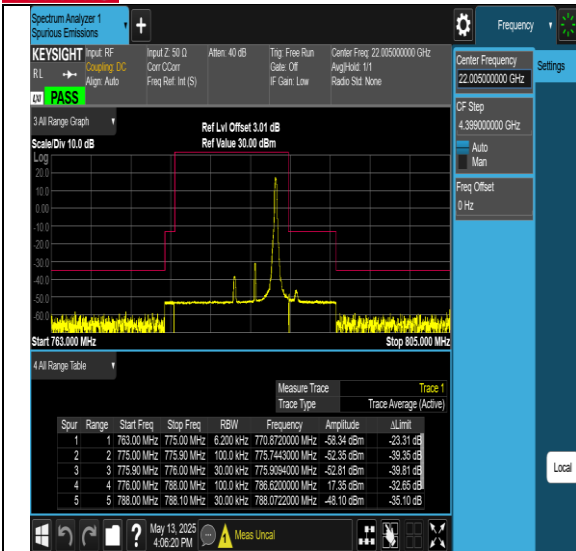
Band13-5MHz-256QAM-23255-1RB#24-PASS



Band13-5MHz-256QAM-23255-25RB#0-PASS



**BUREAU VERITAS** Test Report No.: PSU-QSU2411180418RF04



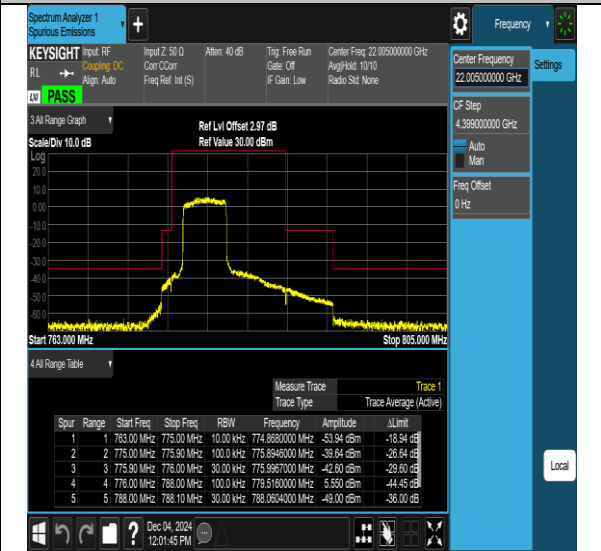
Band13-5MHz-16QAM-23205-1RB#0-PASS



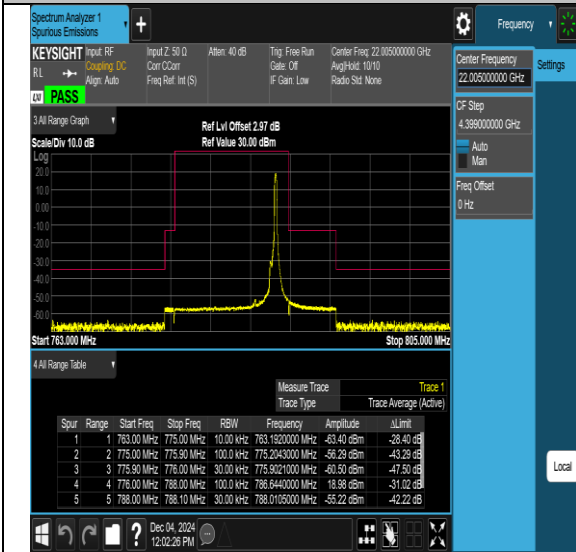
Band13-5MHz-16QAM-23205-25RB#0-PASS



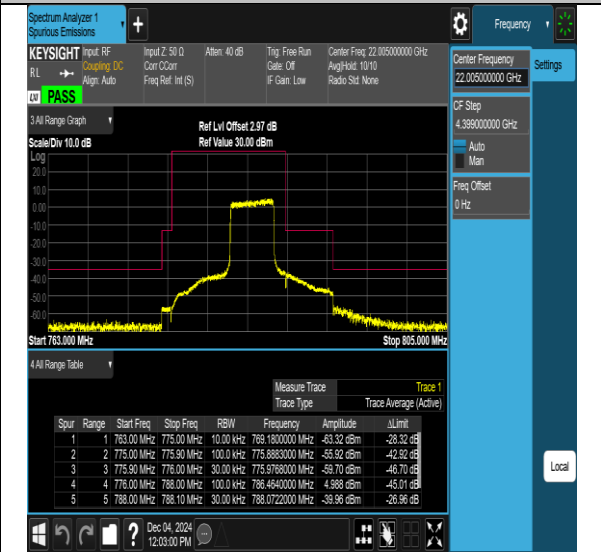
Band13-5MHz-16QAM-23255-1RB#24-PASS



Band13-5MHz-16QAM-23255-25RB#0-PASS



Band13-10MHz-QPSK-23230-1RB#0-PASS

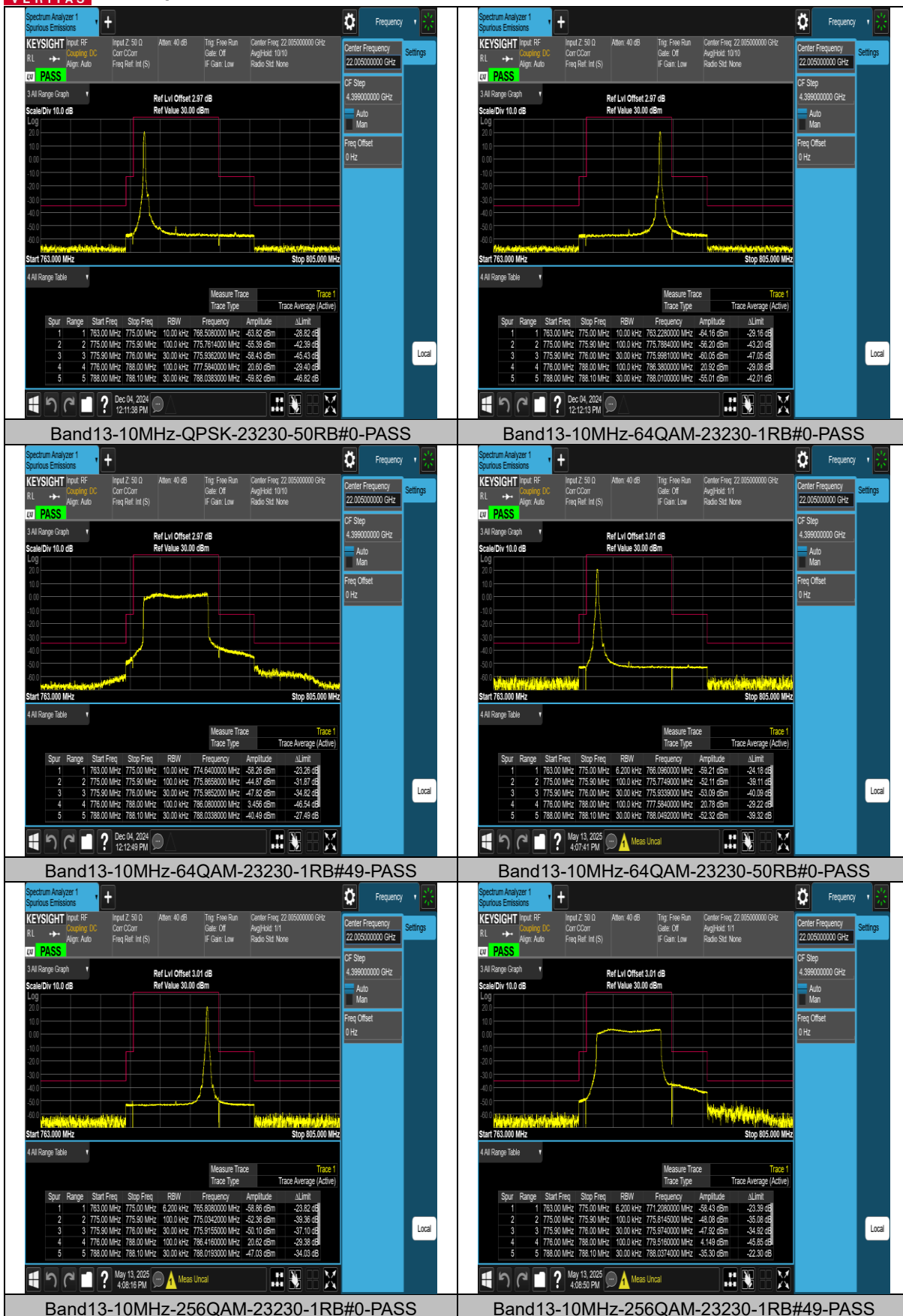


Band13-10MHz-QPSK-23230-1RB#49-PASS



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## Test Report No.: PSU-QSU2411180418RF04



Huarui 7layers High Technology  
(Suzhou) Co., Ltd.

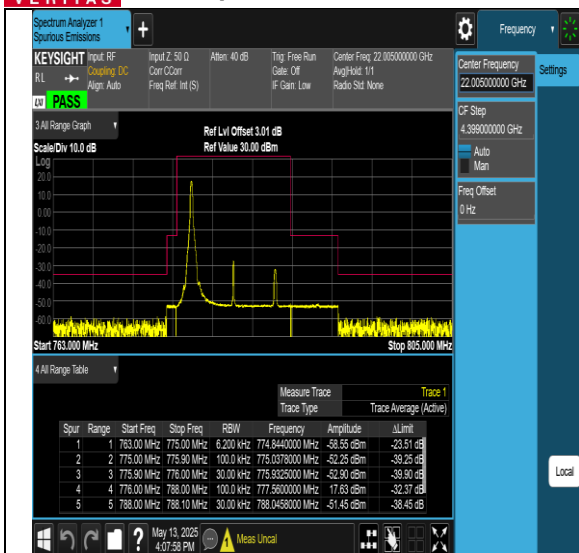
Tower N, Innovation Center, 88 Zuyi Road, High-tech  
District, Suzhou City, Anhui Province, China

Tel: +86 (0557) 368 1008

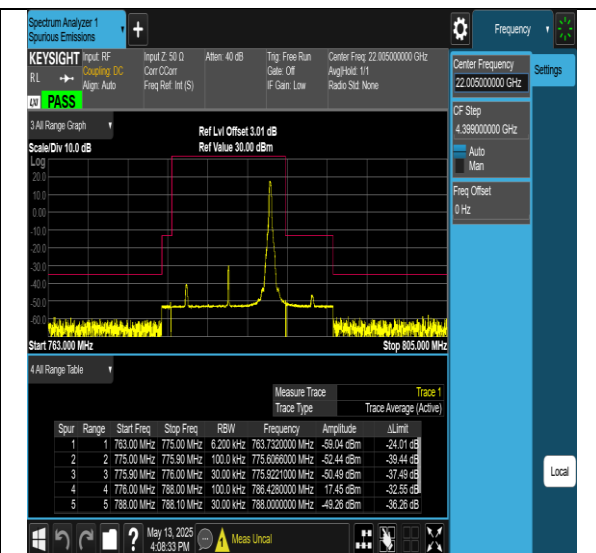


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Test Report No.: PSU-QSU2411180418RF04



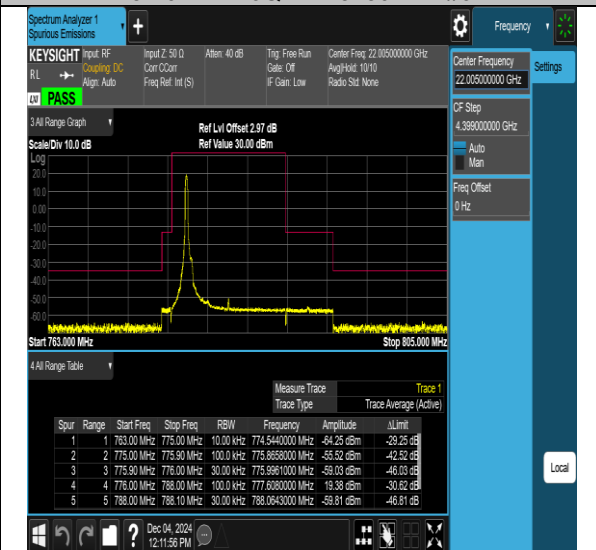
Band13-10MHz-256QAM-23230-50RB#0-PASS



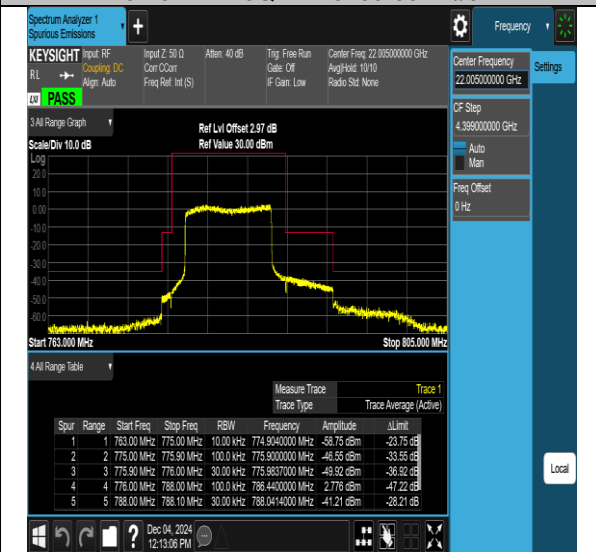
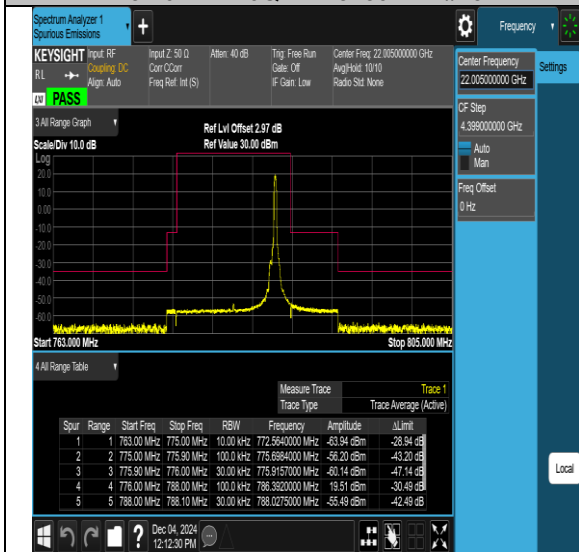
Band13-10MHz-16QAM-23230-1RB#0-PASS



Band13-10MHz-16QAM-23230-1RB#49-PASS



Band13-10MHz-16QAM-23230-50RB#0-PASS



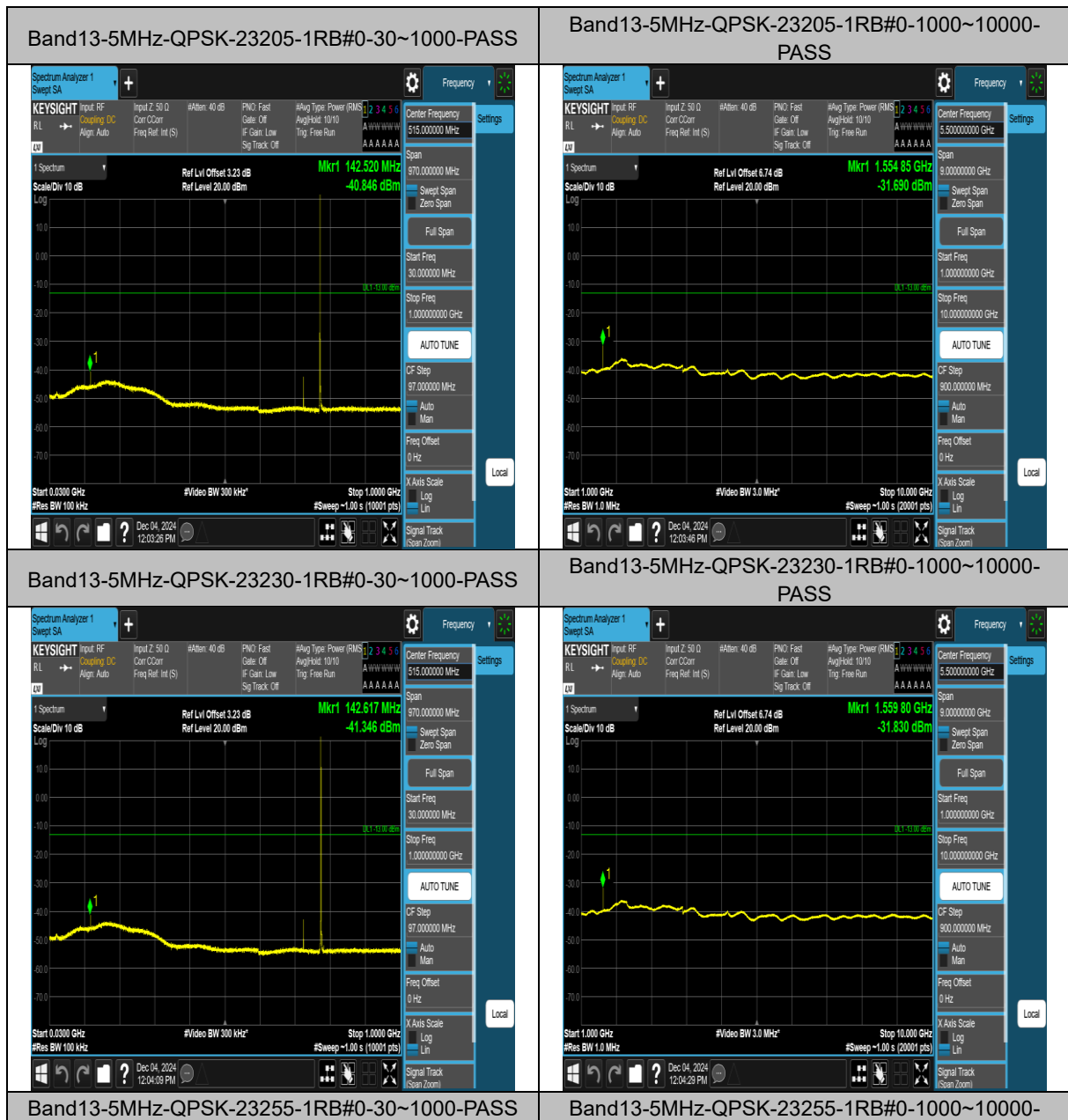


**BUREAU VERITAS** Test Report No.: PSU-QSU2411180418RF04  
**CONDUCTED SPURIOUS EMISSION**

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-----------------|--------------|---------|
| Band13 | 5MHz      | QPSK       | 23205   | 1RB#0            | 30~1000         | -40.85       | PASS    |
| Band13 | 5MHz      | QPSK       | 23205   | 1RB#0            | 1000~10000      | -31.69       | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 1RB#0            | 30~1000         | -41.35       | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 1RB#0            | 1000~10000      | -31.83       | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 1RB#0            | 30~1000         | -41.15       | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 1RB#0            | 1000~10000      | -31.61       | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 1RB#0            | 30~1000         | -40.77       | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 1RB#0            | 1000~10000      | -31.66       | PASS    |

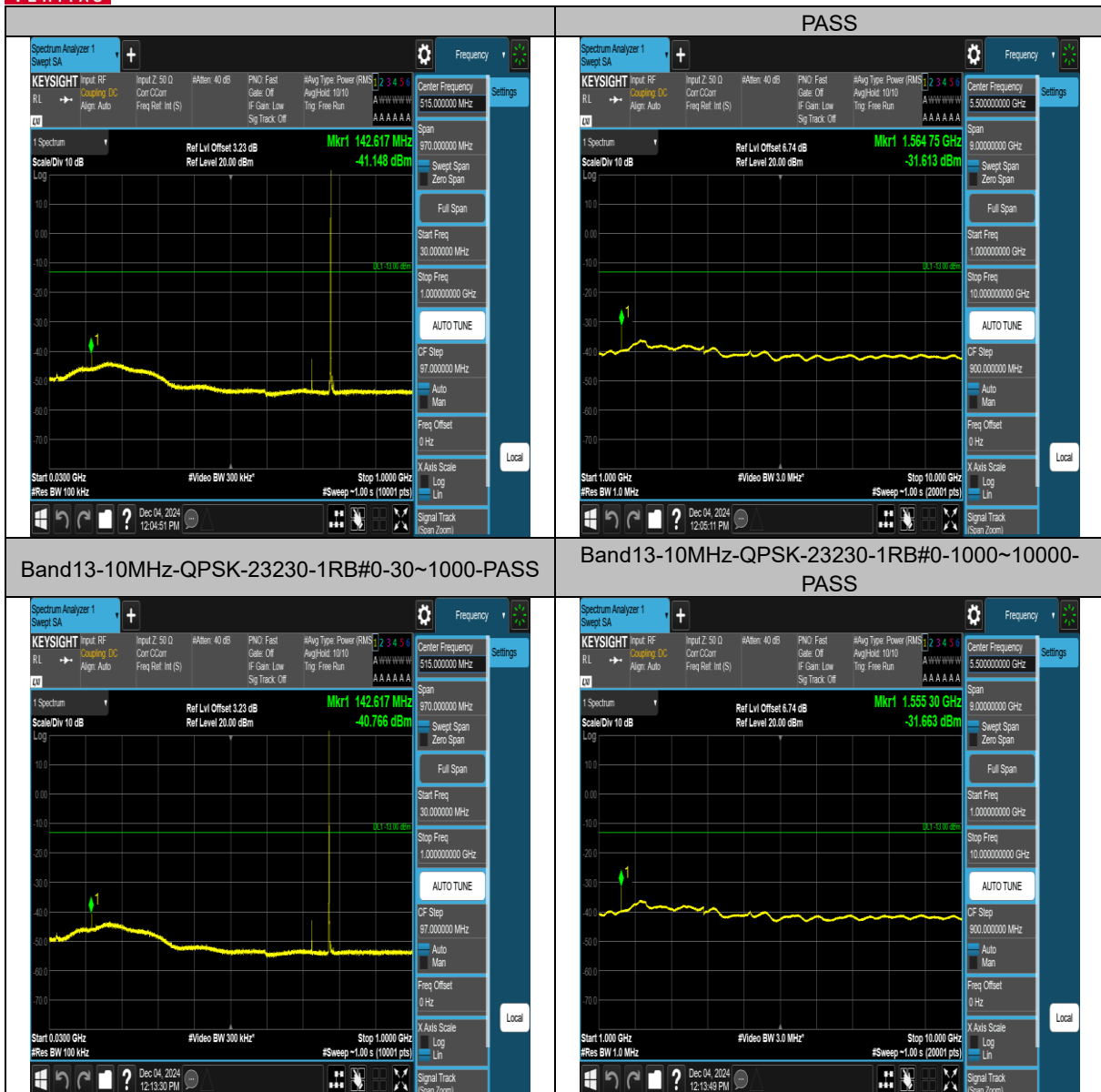
### Test Graphs



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**BUREAU VERITAS** Test Report No.: PSU-QSU2411180418RF04

## FREQUENCY STABILITY

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |           |           |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-----------|-----------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | FL (MHz)  | FH (MHz)  | Limit (MHz) | Verdict |
| Band13  | 5MHz      | QPSK       | 23205   | 25RB#0       | VN            | NT               | 871.79         | 1.12            | 777.25264 | --        | 777-787     | PASS    |
| Band13  | 5MHz      | QPSK       | 23205   | 25RB#0       | VL            | NT               | 867.95         | 1.11            | 777.26371 | --        | 777-787     | PASS    |
| Band13  | 5MHz      | QPSK       | 23205   | 25RB#0       | VH            | NT               | 733.13         | 0.94            | 777.26442 | --        | 777-787     | PASS    |
| Band13  | 5MHz      | QPSK       | 23255   | 25RB#0       | VN            | NT               | 987.09         | 1.26            | --        | 786.73604 | 777-787     | PASS    |
| Band13  | 5MHz      | QPSK       | 23255   | 25RB#0       | VL            | NT               | 867.08         | 1.11            | --        | 786.73567 | 777-787     | PASS    |
| Band13  | 5MHz      | QPSK       | 23255   | 25RB#0       | VH            | NT               | 627.06         | 0.80            | --        | 786.73496 | 777-787     | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |           |           |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-----------|-----------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | FL (MHz)  | FH (MHz)  | Limit (MHz) | Verdict |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | -30              | 1290.21        | 1.66            | 777.26002 | --        | 777-787     | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | -20              | 860.88         | 1.10            | 777.26039 | --        | 777-787     | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | -10              | 1050.23        | 1.35            | 777.26224 | --        | 777-787     | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | 0                | 1210.94        | 1.55            | 777.26241 | --        | 777-787     | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | 10               | 741.51         | 0.95            | 777.26093 | --        | 777-787     | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | 20               | 1020.93        | 1.31            | 777.25884 | --        | 777-787     | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | 30               | 830.26         | 1.07            | 777.26374 | --        | 777-787     | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | 40               | 510.74         | 0.66            | 777.25331 | --        | 777-787     | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | 50               | 810.33         | 1.04            | 777.26662 | --        | 777-787     | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | -30              | 938.25         | 1.20            | --        | 786.73887 | 777-787     | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | -20              | 785.63         | 1.00            | --        | 786.73397 | 777-787     | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | -10              | 644.89         | 0.82            | --        | 786.73554 | 777-787     | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | 0                | 470.41         | 0.60            | --        | 786.73627 | 777-787     | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | 10               | 232.90         | 0.30            | --        | 786.73047 | 777-787     | PASS    |

**Test Report No.: PSU-QSU2411180418RF04**

|        |      |      |       |        |    |    |         |      |    |           |         |      |
|--------|------|------|-------|--------|----|----|---------|------|----|-----------|---------|------|
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | NV | 20 | 102.86  | 0.13 | -- | 786.73555 | 777-787 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | NV | 30 | 597.08  | 0.76 | -- | 786.73627 | 777-787 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | NV | 40 | 1005.68 | 1.28 | -- | 786.4109  | 777-787 | PASS |
| Band13 | 5MHz | QPSK | 23255 | 25RB#0 | NV | 50 | 1095.40 | 1.40 | -- | 786.74037 | 777-787 | PASS |



## LTE BAND 30

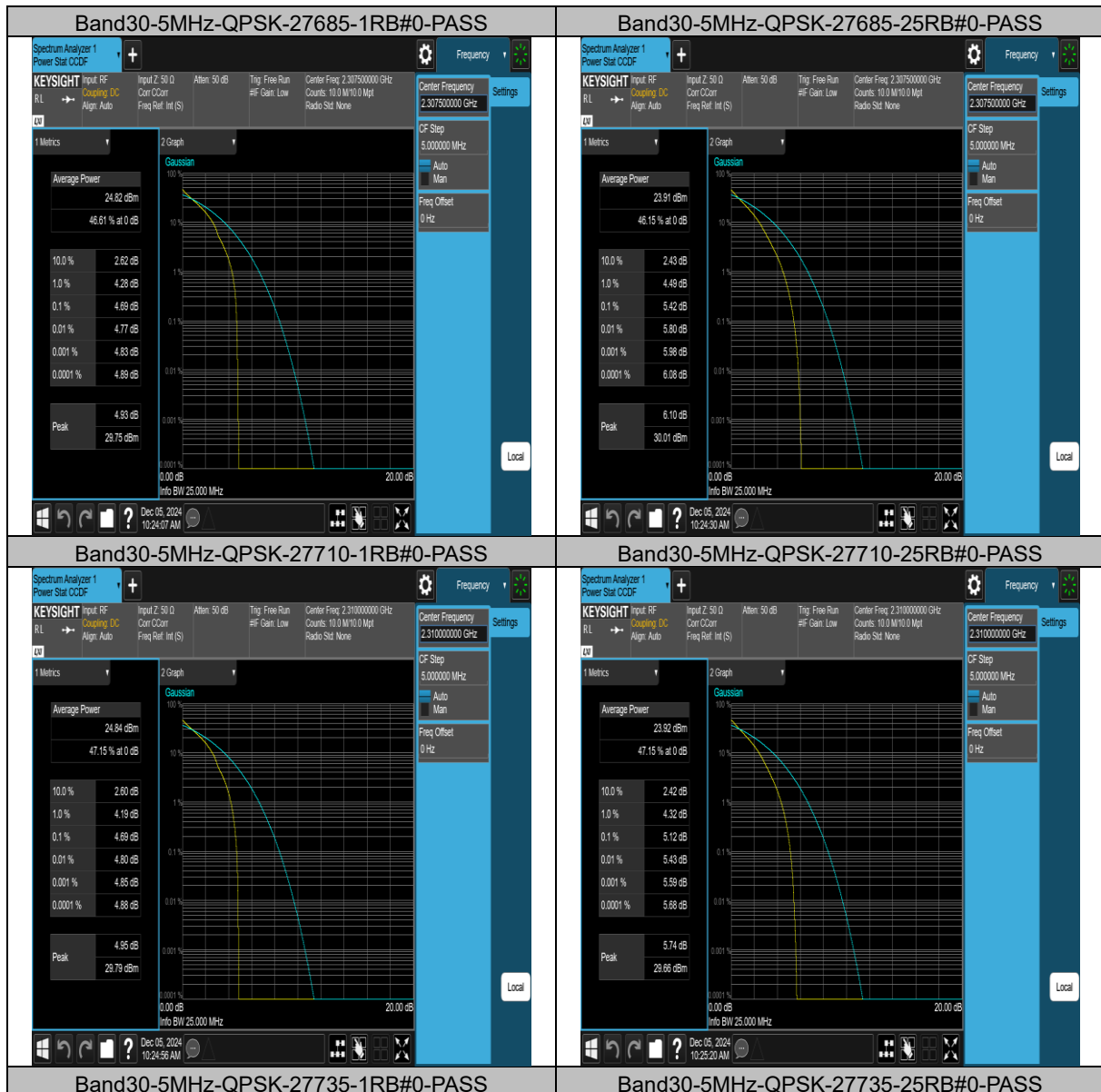
### PEAK-TO-AVERAGE RATIO(CCDF)

#### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band30 | 5MHz      | QPSK       | 27685   | 1RB#0            | 4.69       | 13        | PASS    |
| Band30 | 5MHz      | QPSK       | 27685   | 25RB#0           | 5.42       | 13        | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 1RB#0            | 4.69       | 13        | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 25RB#0           | 5.12       | 13        | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 1RB#0            | 4.39       | 13        | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 25RB#0           | 4.72       | 13        | PASS    |
| Band30 | 5MHz      | 64QAM      | 27685   | 1RB#0            | 6.15       | 13        | PASS    |
| Band30 | 5MHz      | 64QAM      | 27685   | 25RB#0           | 6.54       | 13        | PASS    |
| Band30 | 5MHz      | 64QAM      | 27710   | 1RB#0            | 6.17       | 13        | PASS    |
| Band30 | 5MHz      | 64QAM      | 27710   | 25RB#0           | 6.42       | 13        | PASS    |
| Band30 | 5MHz      | 64QAM      | 27735   | 1RB#0            | 6.07       | 13        | PASS    |
| Band30 | 5MHz      | 64QAM      | 27735   | 25RB#0           | 6.18       | 13        | PASS    |
| Band30 | 5MHz      | 256QAM     | 27685   | 1RB#0            | 6.78       | 13        | PASS    |
| Band30 | 5MHz      | 256QAM     | 27685   | 25RB#0           | 6.76       | 13        | PASS    |
| Band30 | 5MHz      | 256QAM     | 27710   | 1RB#0            | 6.76       | 13        | PASS    |
| Band30 | 5MHz      | 256QAM     | 27710   | 25RB#0           | 6.70       | 13        | PASS    |
| Band30 | 5MHz      | 256QAM     | 27735   | 1RB#0            | 6.81       | 13        | PASS    |
| Band30 | 5MHz      | 256QAM     | 27735   | 25RB#0           | 6.63       | 13        | PASS    |
| Band30 | 5MHz      | 16QAM      | 27685   | 1RB#0            | 5.69       | 13        | PASS    |
| Band30 | 5MHz      | 16QAM      | 27685   | 25RB#0           | 6.28       | 13        | PASS    |
| Band30 | 5MHz      | 16QAM      | 27710   | 1RB#0            | 5.65       | 13        | PASS    |
| Band30 | 5MHz      | 16QAM      | 27710   | 25RB#0           | 6.02       | 13        | PASS    |
| Band30 | 5MHz      | 16QAM      | 27735   | 1RB#0            | 5.42       | 13        | PASS    |
| Band30 | 5MHz      | 16QAM      | 27735   | 25RB#0           | 5.71       | 13        | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 1RB#0            | 4.70       | 13        | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0           | 5.21       | 13        | PASS    |
| Band30 | 10MHz     | 64QAM      | 27710   | 1RB#0            | 6.05       | 13        | PASS    |
| Band30 | 10MHz     | 64QAM      | 27710   | 50RB#0           | 6.39       | 13        | PASS    |
| Band30 | 10MHz     | 256QAM     | 27710   | 1RB#0            | 6.77       | 13        | PASS    |
| Band30 | 10MHz     | 256QAM     | 27710   | 50RB#0           | 6.72       | 13        | PASS    |
| Band30 | 10MHz     | 16QAM      | 27710   | 1RB#0            | 5.71       | 13        | PASS    |
| Band30 | 10MHz     | 16QAM      | 27710   | 50RB#0           | 6.10       | 13        | PASS    |

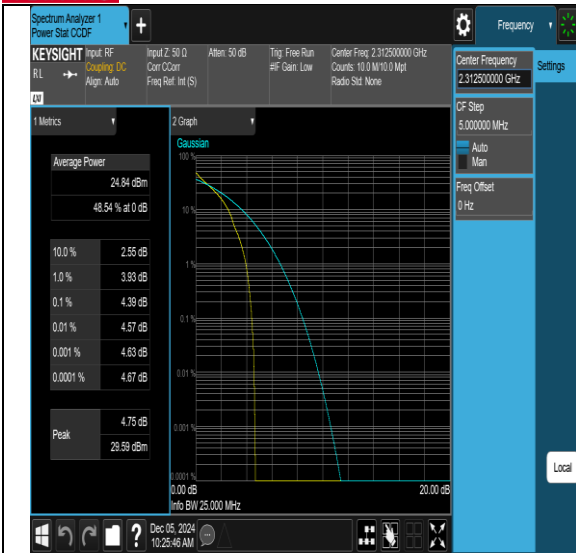


## Test Graphs

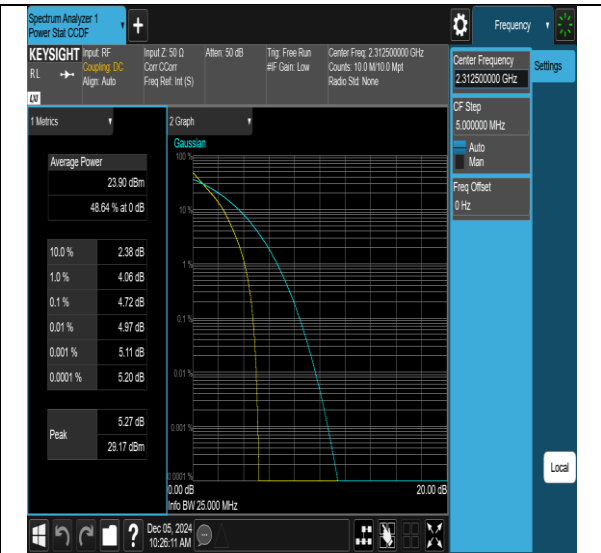




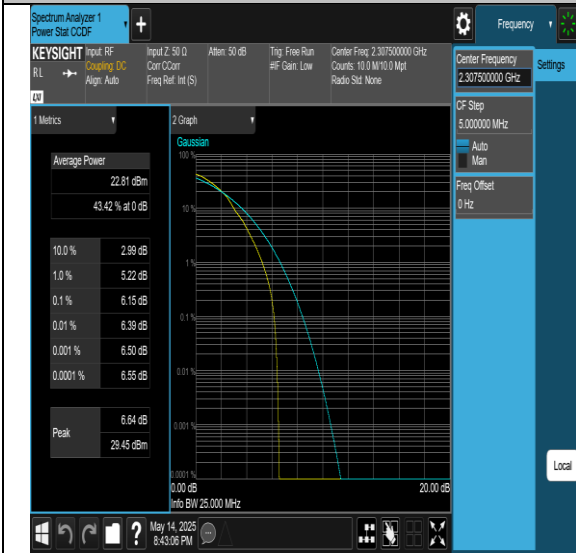
**BUREAU VERITAS** Test Report No.: PSU-QSU2411180418RF04



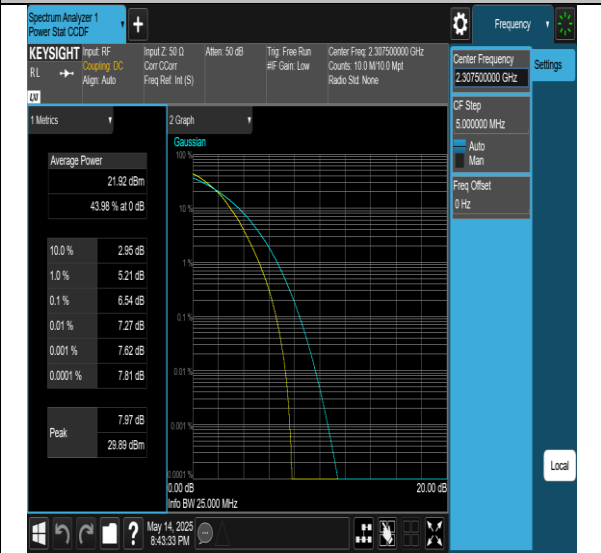
Band30-5MHz-64QAM-27685-1RB#0-PASS



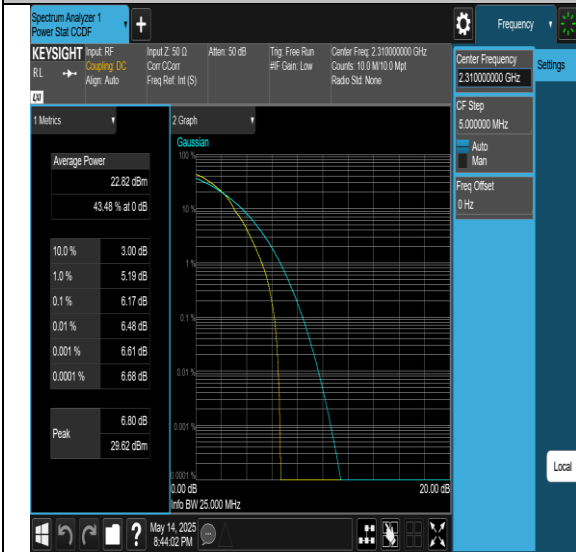
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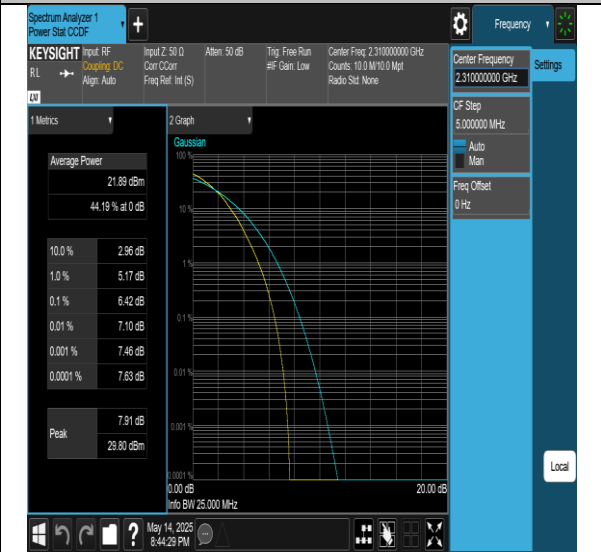
Band30-5MHz-64QAM-27710-1RB#0-PASS



Band30-5MHz-64QAM-27710-25RB#0-PASS



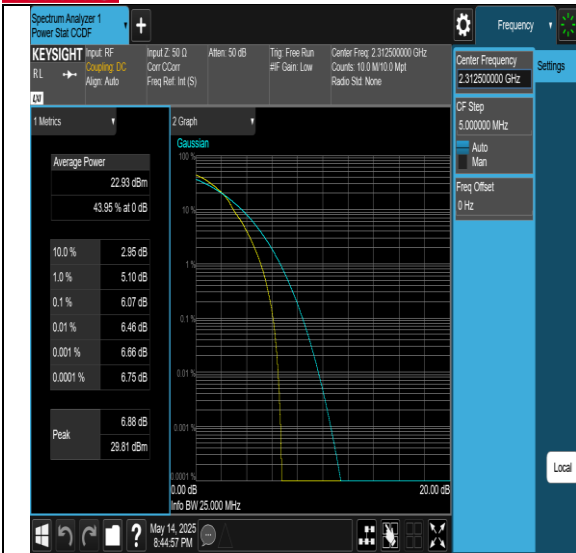
Band30-5MHz-64QAM-27735-1RB#0-PASS



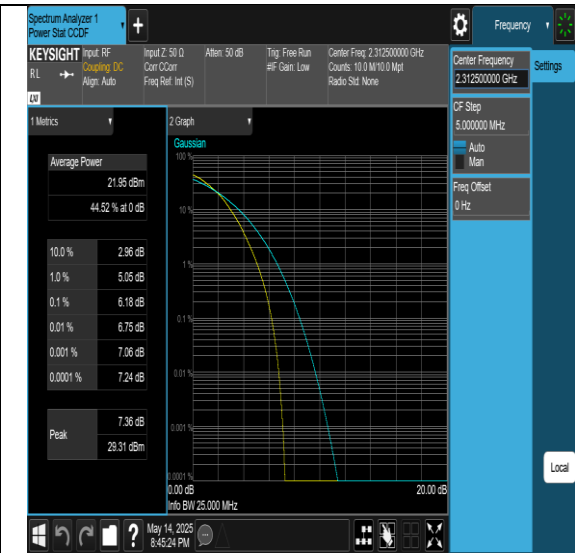
Band30-5MHz-64QAM-27735-25RB#0-PASS



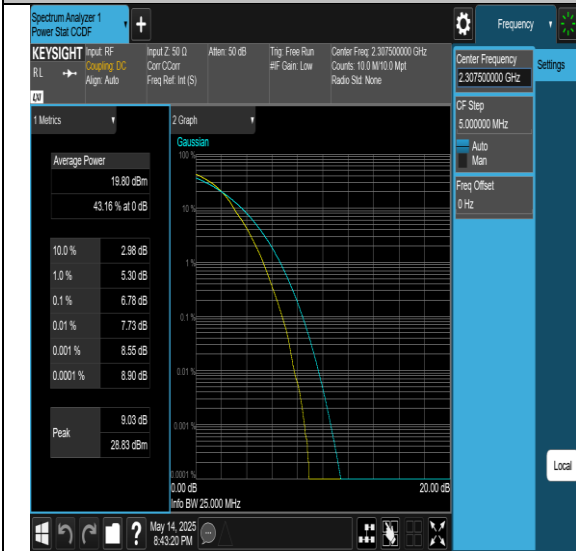
**BUREAU VERITAS** Test Report No.: PSU-QSU2411180418RF04



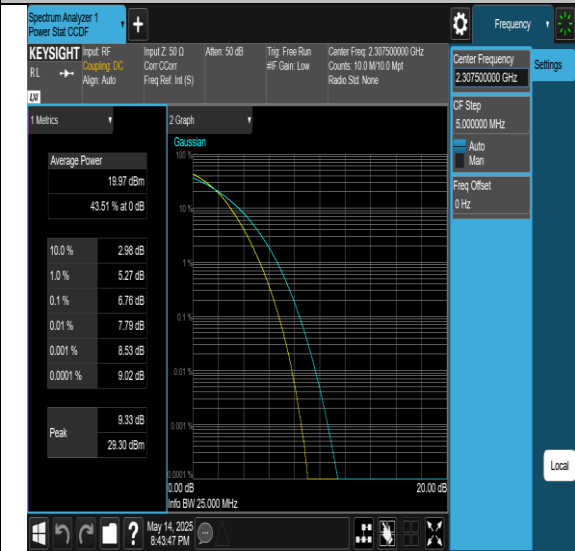
Band30-5MHz-256QAM-27685-1RB#0-PASS



Band30-5MHz-256QAM-27685-25RB#0-PASS



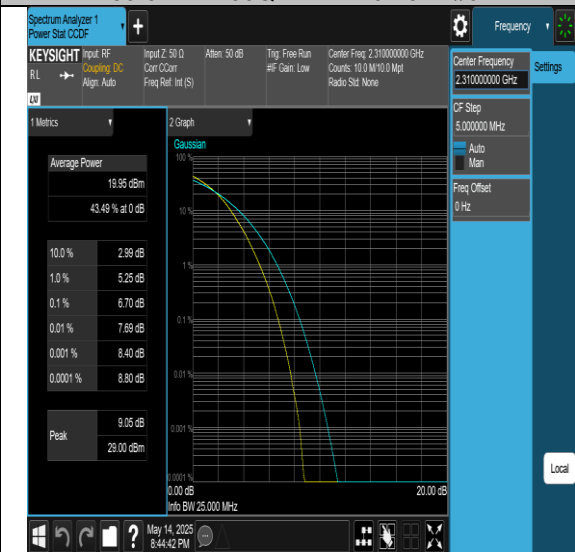
Band30-5MHz-256QAM-27710-1RB#0-PASS



Band30-5MHz-256QAM-27710-25RB#0-PASS



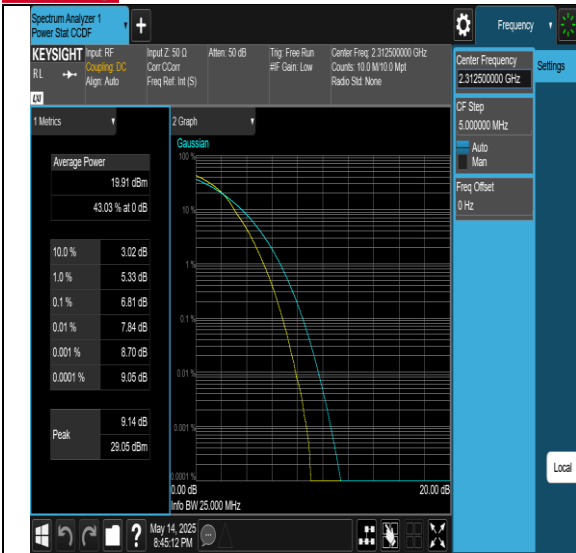
Band30-5MHz-256QAM-27735-1RB#0-PASS



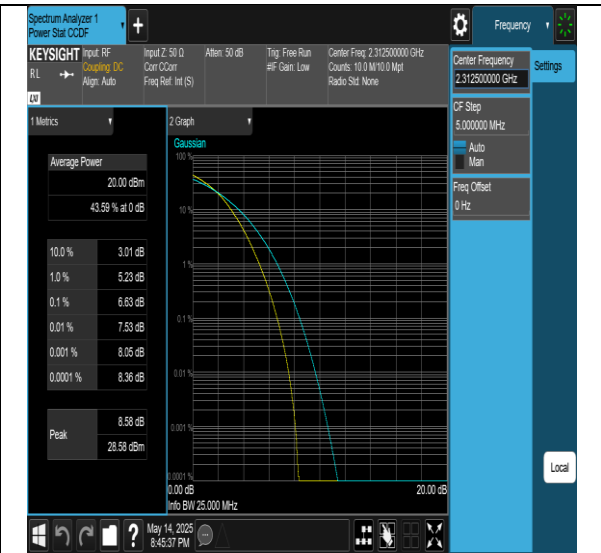
Band30-5MHz-256QAM-27735-25RB#0-PASS



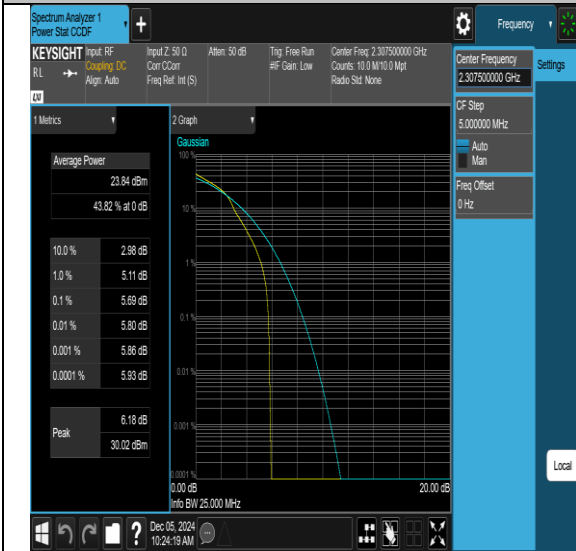
**BUREAU VERITAS** Test Report No.: PSU-QSU2411180418RF04



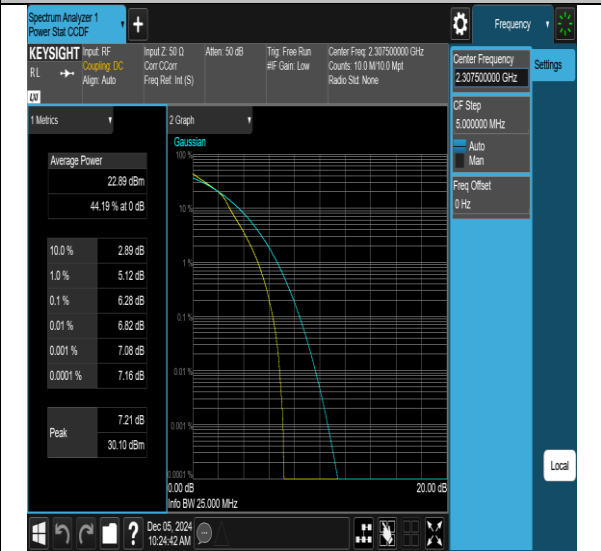
Band30-5MHz-16QAM-27685-1RB#0-PASS



Band30-5MHz-16QAM-27685-25RB#0-PASS



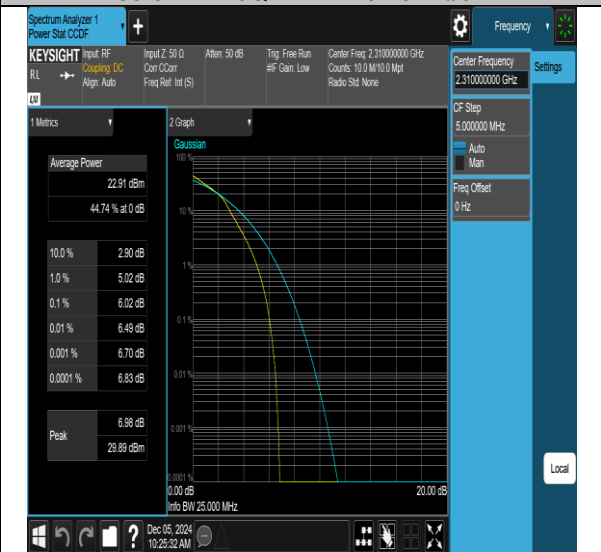
Band30-5MHz-16QAM-27710-1RB#0-PASS



Band30-5MHz-16QAM-27710-25RB#0-PASS



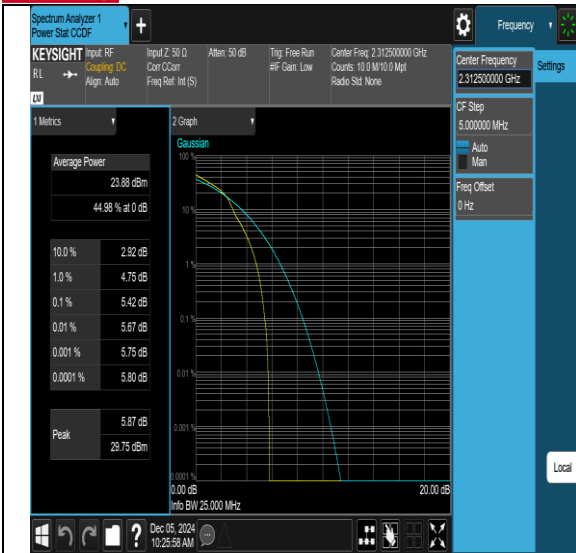
Band30-5MHz-16QAM-27735-1RB#0-PASS



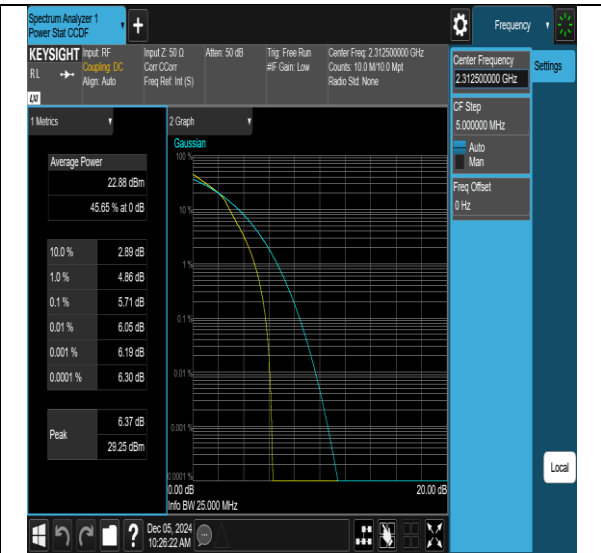
Band30-5MHz-16QAM-27735-25RB#0-PASS



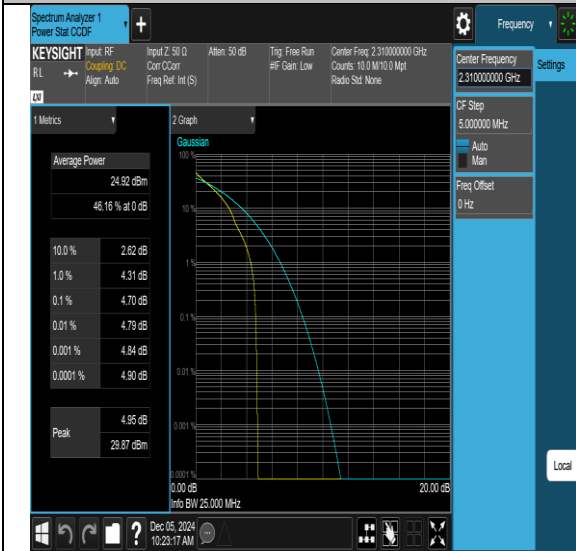
**BUREAU VERITAS** Test Report No.: PSU-QSU2411180418RF04



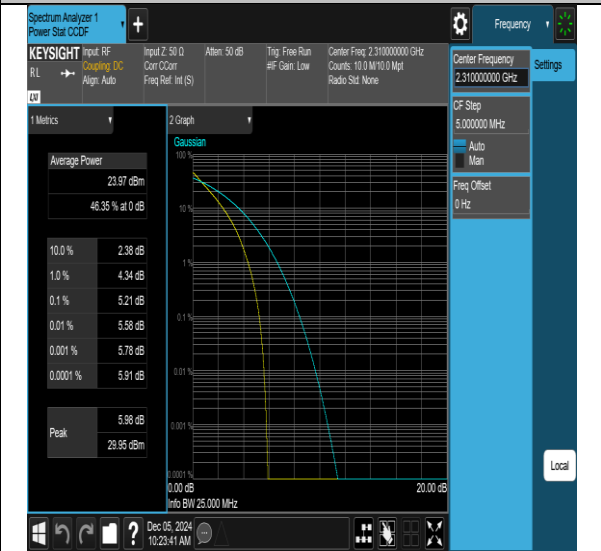
Band30-10MHz-QPSK-27710-1RB#0-PASS



Band30-10MHz-QPSK-27710-50RB#0-PASS



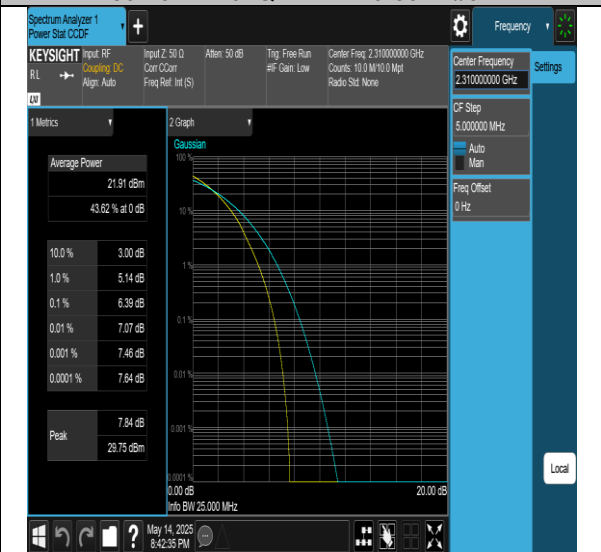
Band30-10MHz-64QAM-27710-1RB#0-PASS



Band30-10MHz-64QAM-27710-50RB#0-PASS



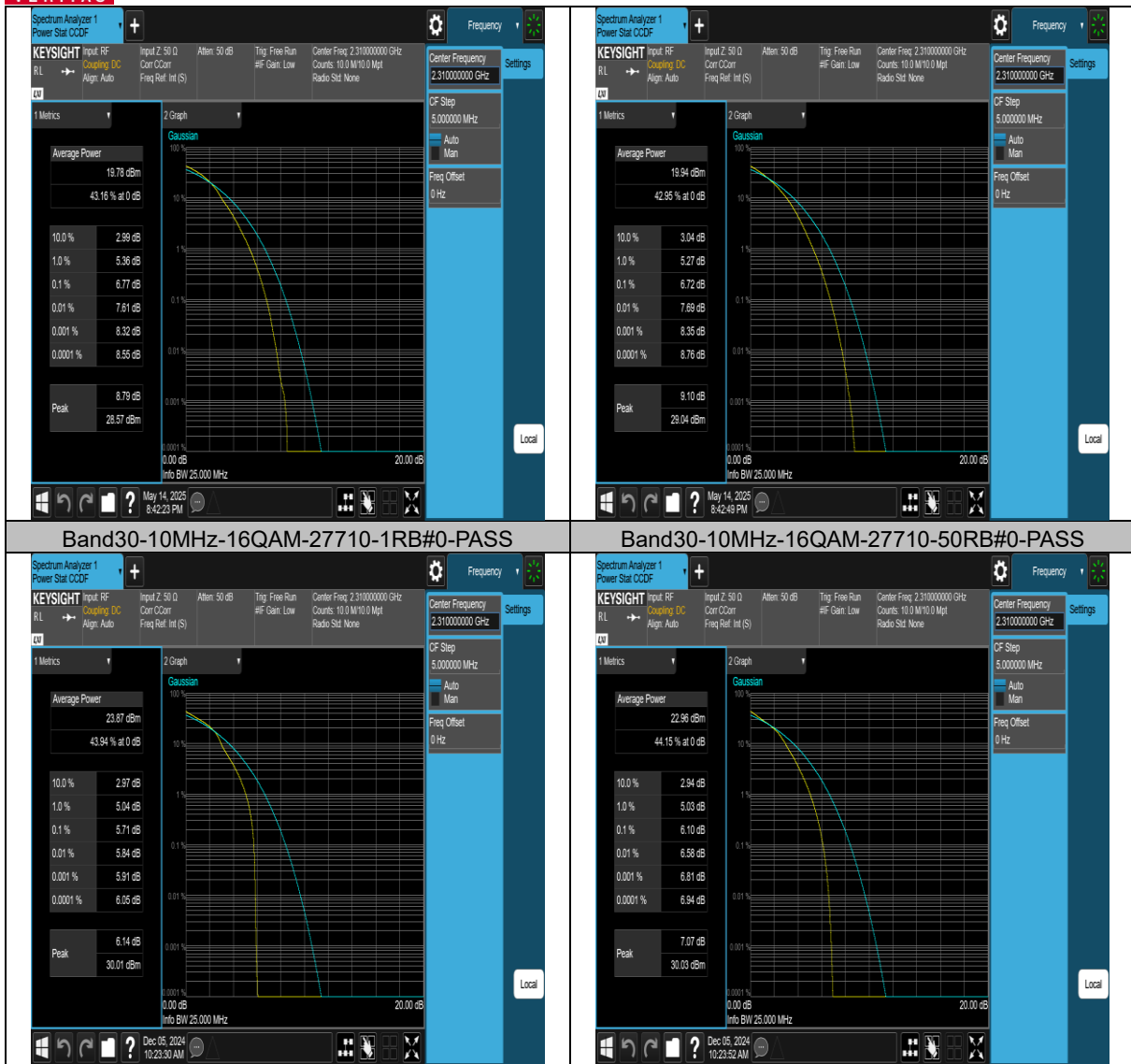
Band30-10MHz-256QAM-27710-1RB#0-PASS



Band30-10MHz-256QAM-27710-50RB#0-PASS



**BUREAU VERITAS** Test Report No.: PSU-QSU2411180418RF04



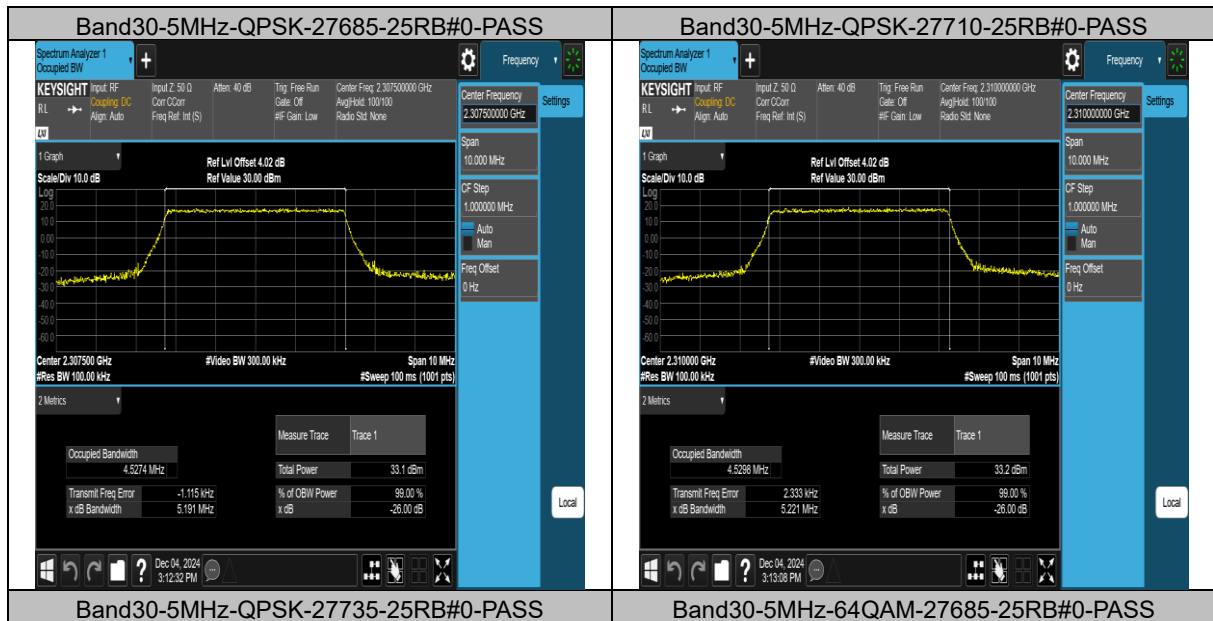


**BUREAU VERITAS** Test Report No.: PSU-QSU2411180418RF04  
**26DB BANDWIDTH AND OCCUPIED BANDWIDTH**

**Test Result**

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band30 | 5MHz      | QPSK       | 27685   | 25RB#0           | 4.5274                   | 5.191                | PASS    |
| Band30 | 5MHz      | QPSK       | 27710   | 25RB#0           | 4.5298                   | 5.221                | PASS    |
| Band30 | 5MHz      | QPSK       | 27735   | 25RB#0           | 4.5201                   | 5.167                | PASS    |
| Band30 | 5MHz      | 64QAM      | 27685   | 25RB#0           | 4.5174                   | 5.176                | PASS    |
| Band30 | 5MHz      | 64QAM      | 27710   | 25RB#0           | 4.5260                   | 5.169                | PASS    |
| Band30 | 5MHz      | 64QAM      | 27735   | 25RB#0           | 4.5167                   | 5.163                | PASS    |
| Band30 | 5MHz      | 256QAM     | 27685   | 25RB#0           | 4.5132                   | 5.224                | PASS    |
| Band30 | 5MHz      | 256QAM     | 27710   | 25RB#0           | 4.5263                   | 5.190                | PASS    |
| Band30 | 5MHz      | 256QAM     | 27735   | 25RB#0           | 4.5201                   | 5.163                | PASS    |
| Band30 | 5MHz      | 16QAM      | 27685   | 25RB#0           | 4.5258                   | 5.198                | PASS    |
| Band30 | 5MHz      | 16QAM      | 27710   | 25RB#0           | 4.5123                   | 5.166                | PASS    |
| Band30 | 5MHz      | 16QAM      | 27735   | 25RB#0           | 4.5196                   | 5.185                | PASS    |
| Band30 | 10MHz     | QPSK       | 27710   | 50RB#0           | 9.0348                   | 10.09                | PASS    |
| Band30 | 10MHz     | 64QAM      | 27710   | 50RB#0           | 9.0015                   | 9.992                | PASS    |
| Band30 | 10MHz     | 256QAM     | 27710   | 50RB#0           | 9.0098                   | 10.00                | PASS    |
| Band30 | 10MHz     | 16QAM      | 27710   | 50RB#0           | 9.0203                   | 10.07                | PASS    |

**Test Graphs**





**BUREAU VERITAS** Test Report No.: PSU-QSU2411180418RF04

