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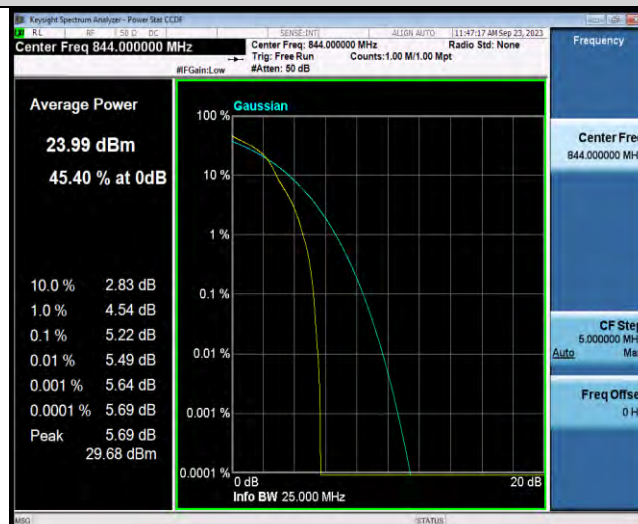
Test Report No.: W7L-P23080017RF04



Band5-10MHz-64QAM-20525-50RB#0



Band5-10MHz-64QAM-20600-1RB#0

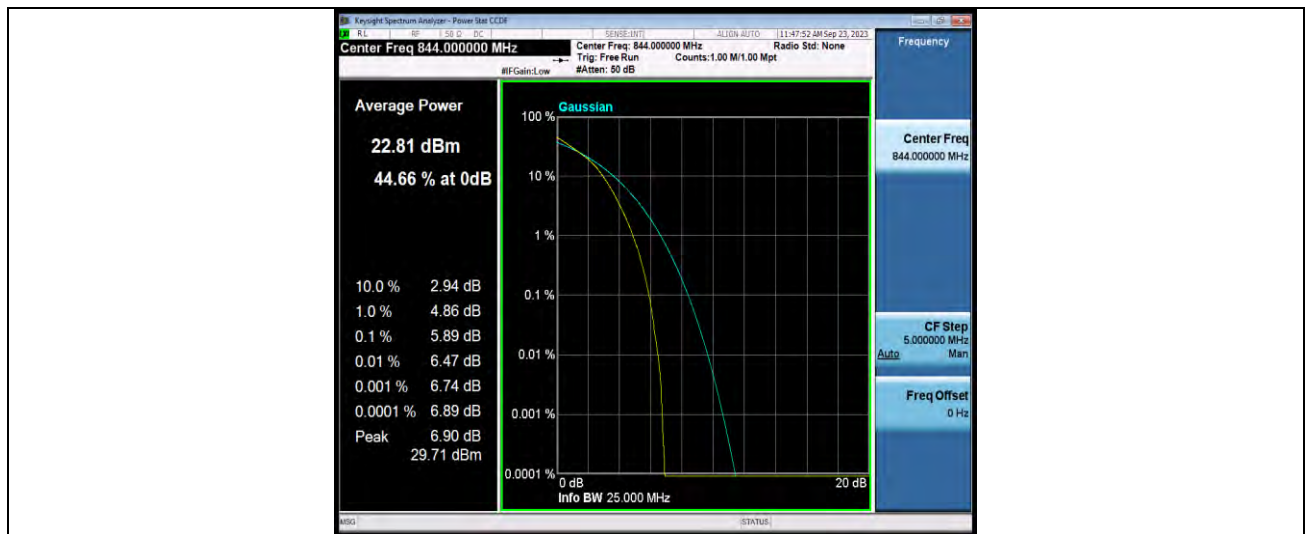


Band5-10MHz-64QAM-20600-50RB#0



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Test Report No.: W7L-P23080017RF04





## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 1.0914                   | 1.271                | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 1.0903                   | 1.283                | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 1.0903                   | 1.282                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 1.0954                   | 1.287                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 1.0958                   | 1.300                | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 1.0966                   | 1.311                | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20407   | 6RB#0            | 1.0945                   | 1.280                | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20525   | 6RB#0            | 1.0966                   | 1.305                | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20643   | 6RB#0            | 1.0996                   | 1.293                | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | 2.6874                   | 2.915                | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 15RB#0           | 2.6910                   | 2.901                | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | 2.6816                   | 2.905                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | 2.6818                   | 2.908                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 15RB#0           | 2.6808                   | 2.893                | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | 2.6798                   | 2.881                | PASS    |
| Band5 | 3MHz      | 64QAM      | 20415   | 15RB#0           | 2.6831                   | 2.902                | PASS    |
| Band5 | 3MHz      | 64QAM      | 20525   | 15RB#0           | 2.6813                   | 2.913                | PASS    |
| Band5 | 3MHz      | 64QAM      | 20635   | 15RB#0           | 2.6814                   | 2.902                | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | 4.5040                   | 4.992                | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | 4.4899                   | 4.943                | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | 4.4991                   | 4.930                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | 4.4877                   | 4.906                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | 4.4952                   | 4.955                | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | 4.4828                   | 4.908                | PASS    |
| Band5 | 5MHz      | 64QAM      | 20425   | 25RB#0           | 4.4902                   | 4.907                | PASS    |
| Band5 | 5MHz      | 64QAM      | 20525   | 25RB#0           | 4.4910                   | 4.956                | PASS    |
| Band5 | 5MHz      | 64QAM      | 20625   | 25RB#0           | 4.4839                   | 4.895                | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | 8.9927                   | 9.827                | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | 8.9799                   | 9.728                | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | 8.9819                   | 9.836                | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0           | 8.9758                   | 9.721                | PASS    |
| Band5 | 10MHz     | 16QAM      | 20525   | 50RB#0           | 8.9685                   | 9.776                | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0           | 8.9761                   | 9.728                | PASS    |
| Band5 | 10MHz     | 64QAM      | 20450   | 50RB#0           | 8.9842                   | 9.748                | PASS    |
| Band5 | 10MHz     | 64QAM      | 20525   | 50RB#0           | 8.9616                   | 9.772                | PASS    |
| Band5 | 10MHz     | 64QAM      | 20600   | 50RB#0           | 8.9780                   | 9.755                | PASS    |

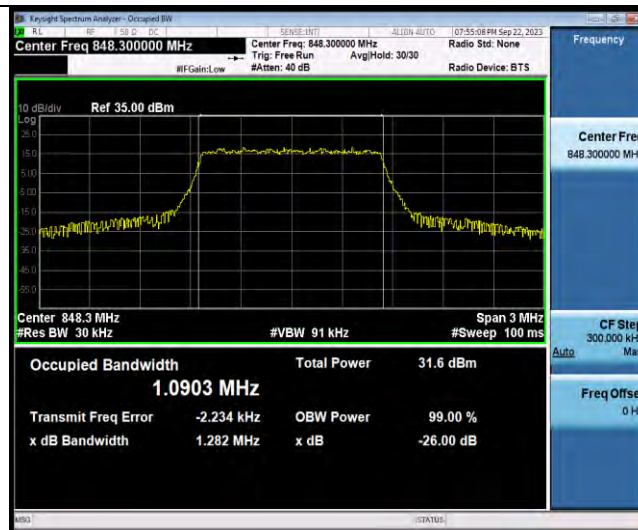
## Test Graphs





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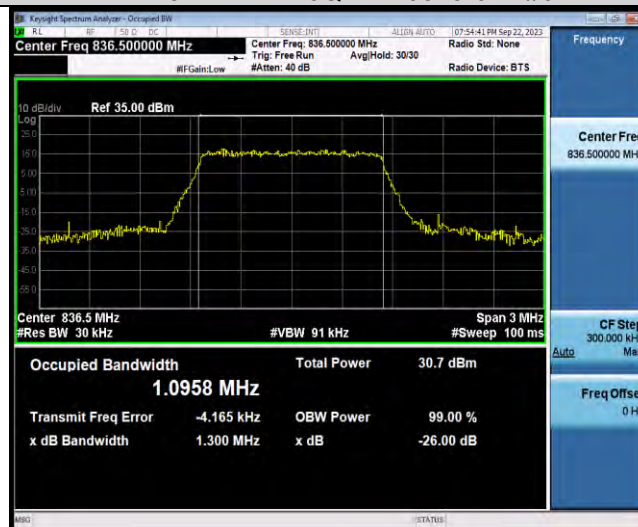
Test Report No.: W7L-P23080017RF04



Band5-1.4MHz-16QAM-20407-6RB#0



Band5-1.4MHz-16QAM-20525-6RB#0

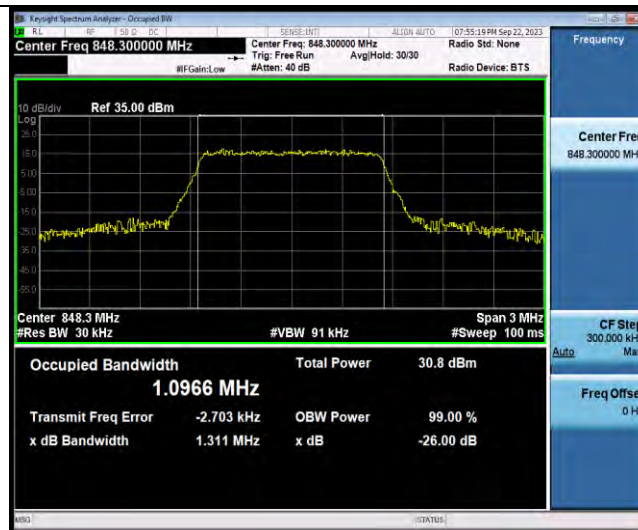


Band5-1.4MHz-16QAM-20643-6RB#0



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Test Report No.: W7L-P23080017RF04



Band5-1.4MHz-64QAM-20407-6RB#0



Band5-1.4MHz-64QAM-20525-6RB#0



Band5-1.4MHz-64QAM-20643-6RB#0

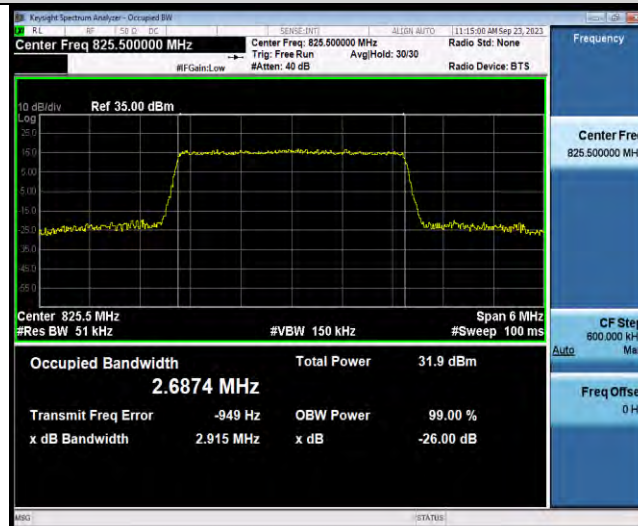


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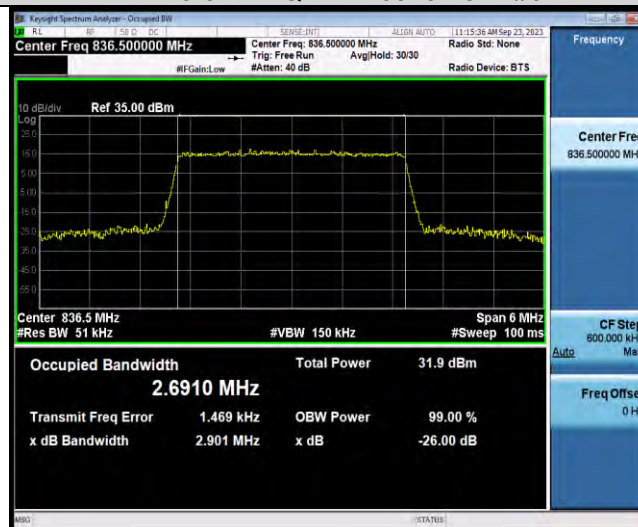
Test Report No.: W7L-P23080017RF04



Band5-3MHz-QPSK-20415-15RB#0



Band5-3MHz-QPSK-20525-15RB#0



Band5-3MHz-QPSK-20635-15RB#0



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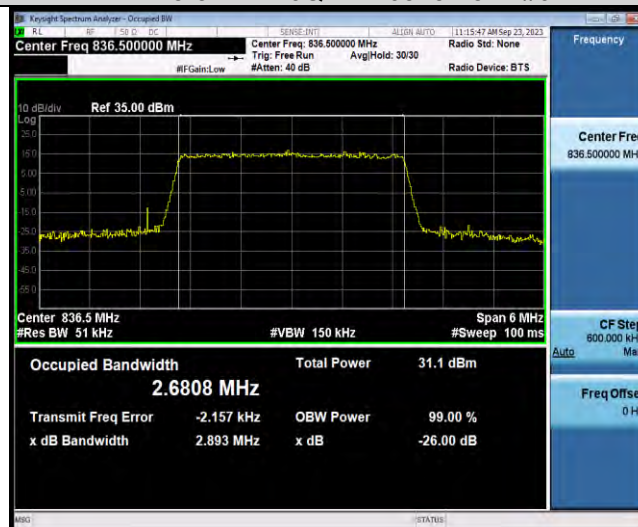
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Band5-3MHz-16QAM-20415-15RB#0



Band5-3MHz-16QAM-20525-15RB#0



Band5-3MHz-16QAM-20635-15RB#0



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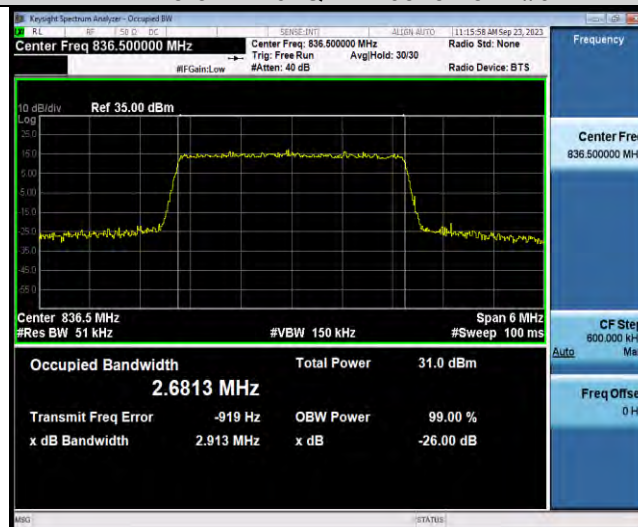
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Band5-3MHz-64QAM-20415-15RB#0



Band5-3MHz-64QAM-20525-15RB#0



Band5-3MHz-64QAM-20635-15RB#0



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Test Report No.: W7L-P23080017RF04



Band5-5MHz-QPSK-20425-25RB#0



Band5-5MHz-QPSK-20525-25RB#0



Band5-5MHz-QPSK-20625-25RB#0

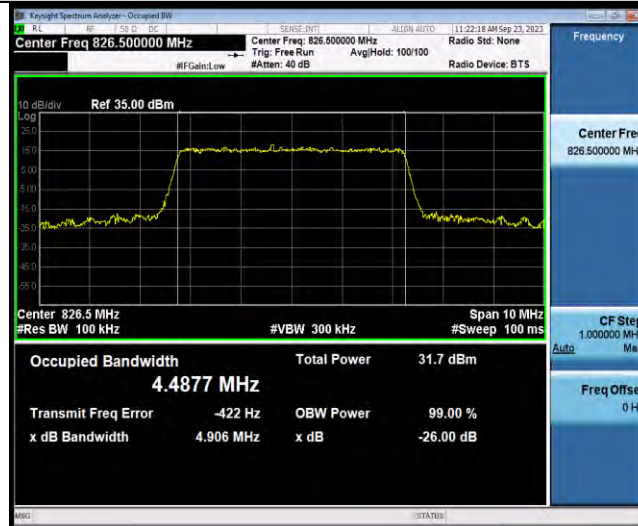


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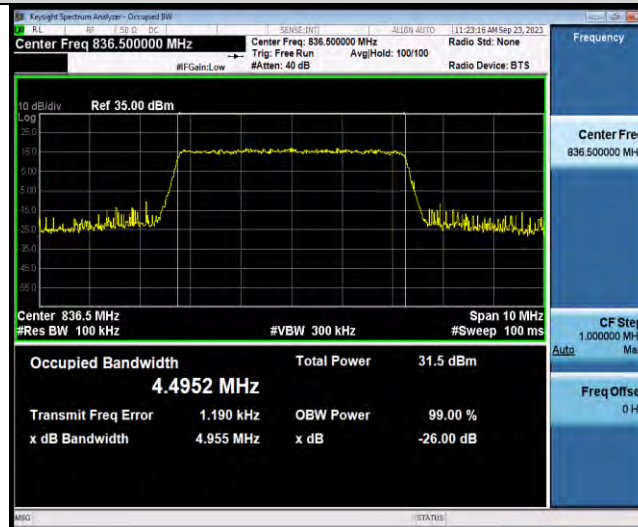
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Band5-5MHz-16QAM-20425-25RB#0



Band5-5MHz-16QAM-20525-25RB#0

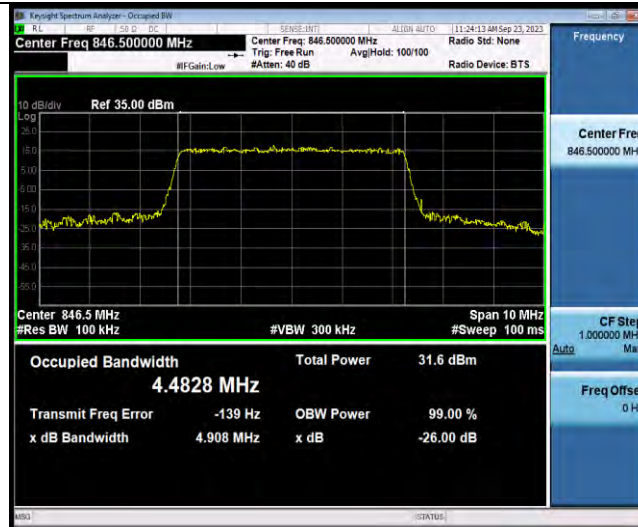


Band5-5MHz-16QAM-20625-25RB#0



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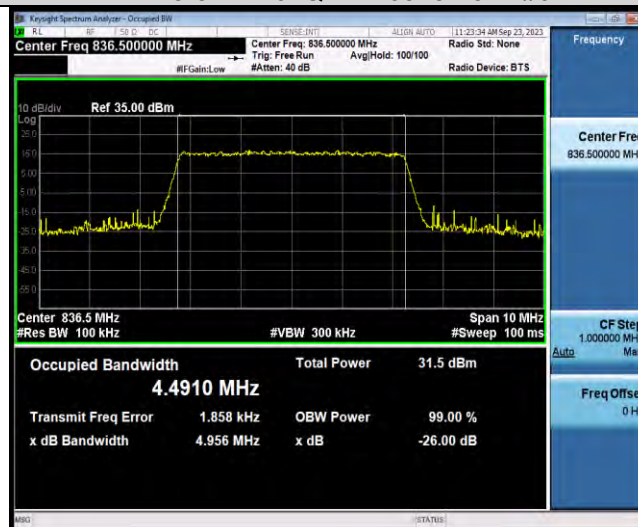
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Band5-5MHz-64QAM-20425-25RB#0



Band5-5MHz-64QAM-20525-25RB#0

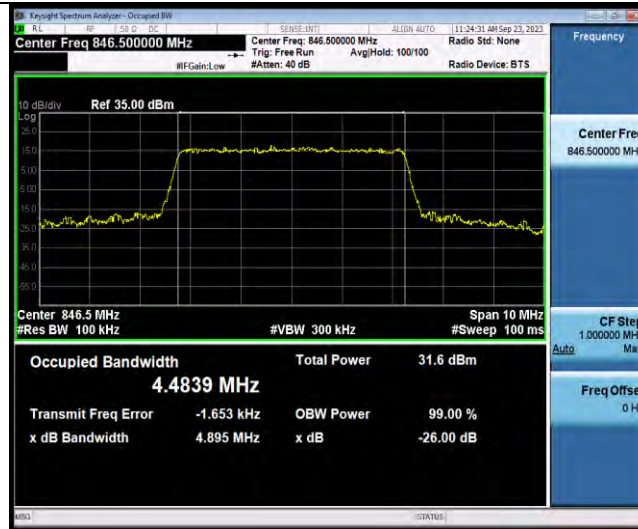


Band5-5MHz-64QAM-20625-25RB#0



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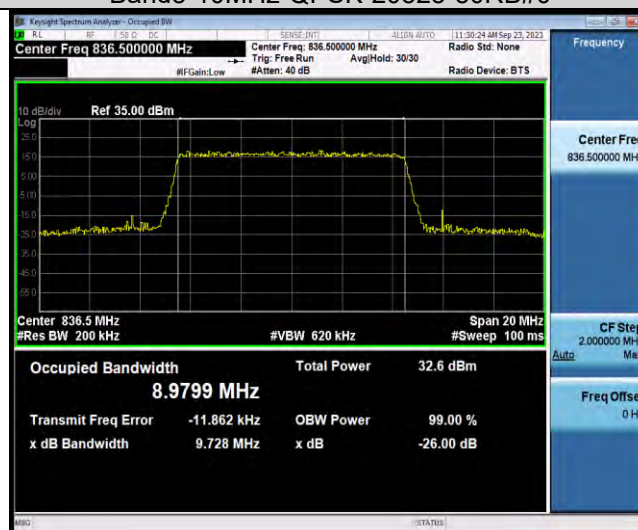
Test Report No.: W7L-P23080017RF04



Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20525-50RB#0



Band5-10MHz-QPSK-20600-50RB#0



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Test Report No.: W7L-P23080017RF04



Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0



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Test Report No.: W7L-P23080017RF04



Band5-10MHz-64QAM-20450-50RB#0



Band5-10MHz-64QAM-20525-50RB#0

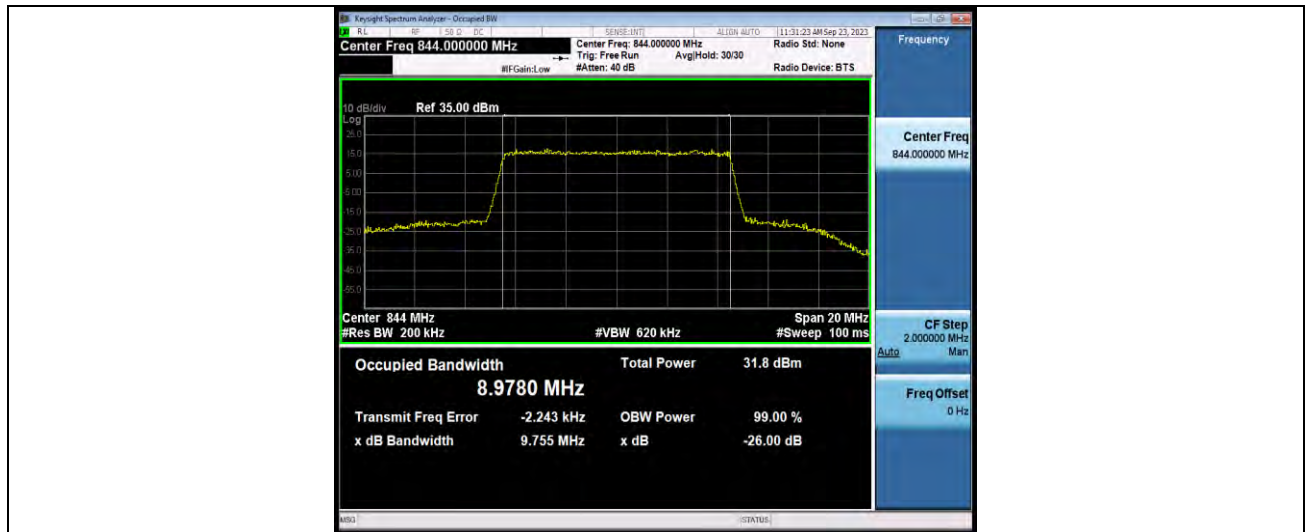


Band5-10MHz-64QAM-20600-50RB#0



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Test Report No.: W7L-P23080017RF04



**BAND EDGE****Test Result**

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm)   | Verdict |
|-------|-----------|------------|---------|------------------|---------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | -46.14,-22.87 | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | -36.89,-28.50 | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#5            | -22.82,-47.09 | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | -28.71,-38.15 | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | -47.03,-26.66 | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | -37.84,-29.58 | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#5            | -24.90,-47.79 | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | -31.29,-39.75 | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20407   | 1RB#0            | -46.63,-25.56 | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20407   | 6RB#0            | -38.30,-30.21 | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20643   | 1RB#5            | -26.16,-47.89 | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20643   | 6RB#0            | -31.14,-39.78 | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | -33.07,-27.52 | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | -34.12,-29.57 | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 1RB#14           | -24.02,-32.99 | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | -28.94,-34.82 | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 1RB#0            | -35.07,-28.27 | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | -34.28,-30.55 | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 1RB#14           | -28.35,-34.63 | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | -31.11,-36.89 | PASS    |
| Band5 | 3MHz      | 64QAM      | 20415   | 1RB#0            | -34.75,-29.78 | PASS    |
| Band5 | 3MHz      | 64QAM      | 20415   | 15RB#0           | -34.79,-29.93 | PASS    |
| Band5 | 3MHz      | 64QAM      | 20635   | 1RB#14           | -28.93,-34.76 | PASS    |
| Band5 | 3MHz      | 64QAM      | 20635   | 15RB#0           | -31.09,-37.58 | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 1RB#0            | -32.42,-26.94 | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | -34.42,-31.06 | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 1RB#24           | -26.60,-32.88 | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | -30.53,-34.74 | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 1RB#0            | -33.56,-27.45 | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | -35.62,-32.70 | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 1RB#24           | -27.09,-34.97 | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | -32.74,-37.95 | PASS    |
| Band5 | 5MHz      | 64QAM      | 20425   | 1RB#0            | -33.47,-30.39 | PASS    |
| Band5 | 5MHz      | 64QAM      | 20425   | 25RB#0           | -36.07,-32.89 | PASS    |
| Band5 | 5MHz      | 64QAM      | 20625   | 1RB#24           | -27.30,-34.39 | PASS    |
| Band5 | 5MHz      | 64QAM      | 20625   | 25RB#0           | -33.05,-37.07 | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 1RB#0            | -32.50,-31.46 | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | -37.07,-30.36 | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 1RB#49           | -32.34,-40.34 | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | -31.53,-37.43 | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 1RB#0            | -34.45,-30.39 | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0           | -37.97,-31.33 | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 1RB#49           | -31.00,-43.01 | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0           | -33.74,-39.87 | PASS    |
| Band5 | 10MHz     | 64QAM      | 20450   | 1RB#0            | -33.93,-31.61 | PASS    |

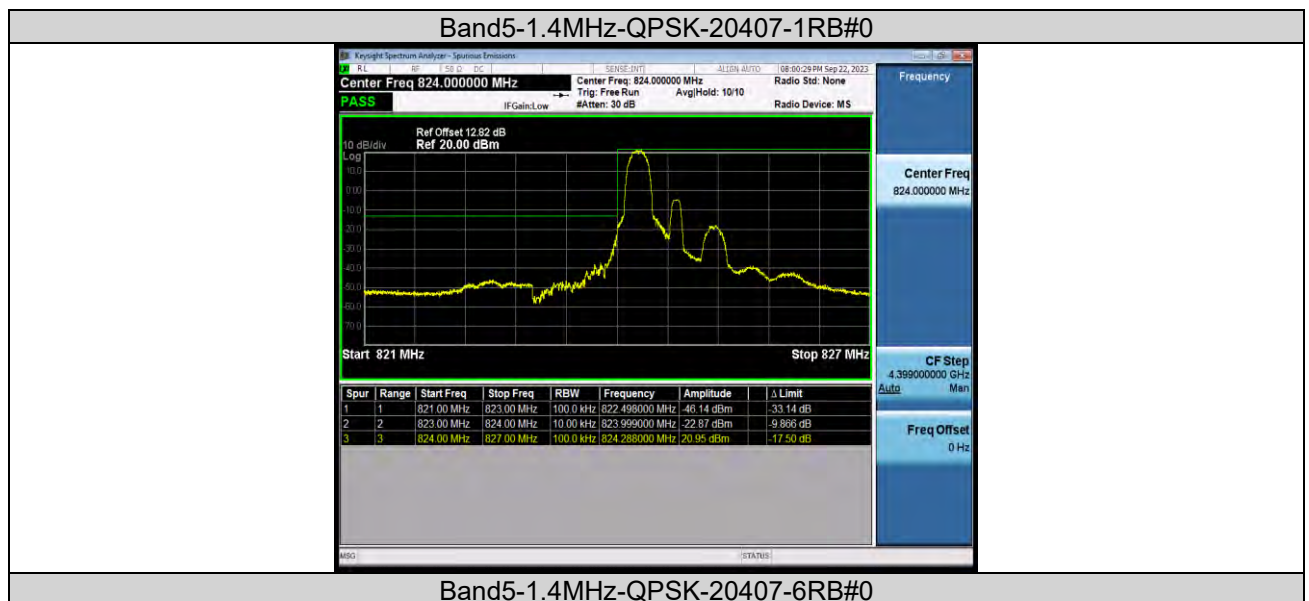


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**Test Report No.: W7L-P23080017RF04**

|       |       |       |       |        |               |      |
|-------|-------|-------|-------|--------|---------------|------|
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0 | -38.26,-31.28 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 1RB#49 | -32.28,-43.08 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0 | -33.21,-39.84 | PASS |

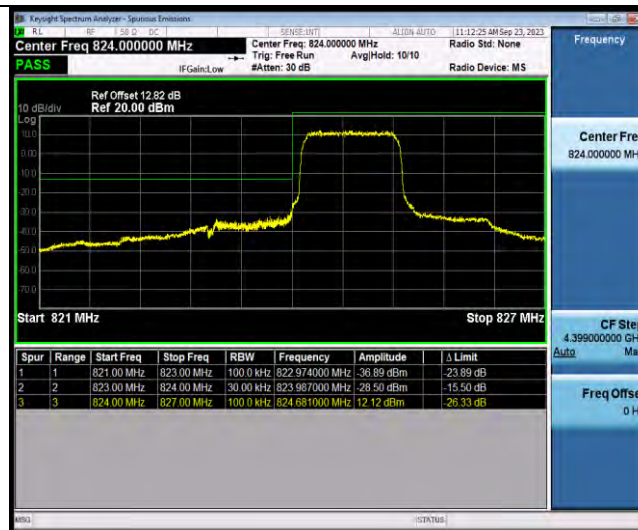
## Test Graphs





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Test Report No.: W7L-P23080017RF04



Band5-1.4MHz-QPSK-20643-1RB#5



Band5-1.4MHz-QPSK-20643-6RB#0

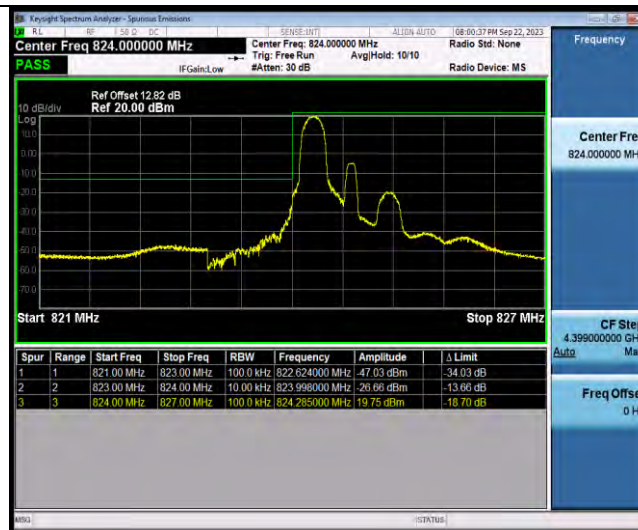


Band5-1.4MHz-16QAM-20407-1RB#0

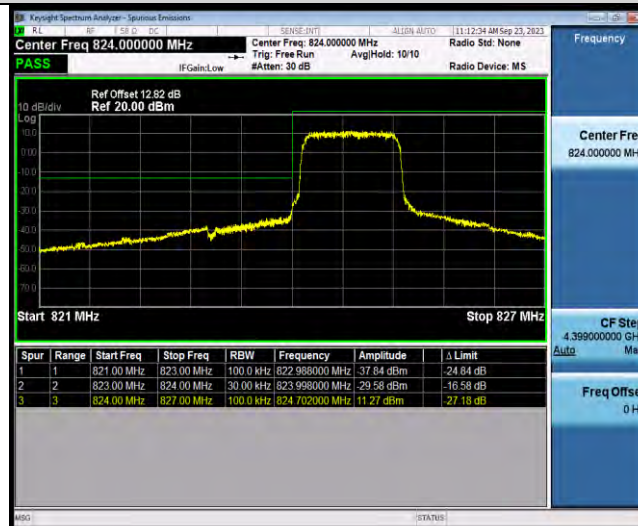


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Test Report No.: W7L-P23080017RF04



Band5-1.4MHz-16QAM-20407-6RB#0



Band5-1.4MHz-16QAM-20643-1RB#5



Band5-1.4MHz-16QAM-20643-6RB#0

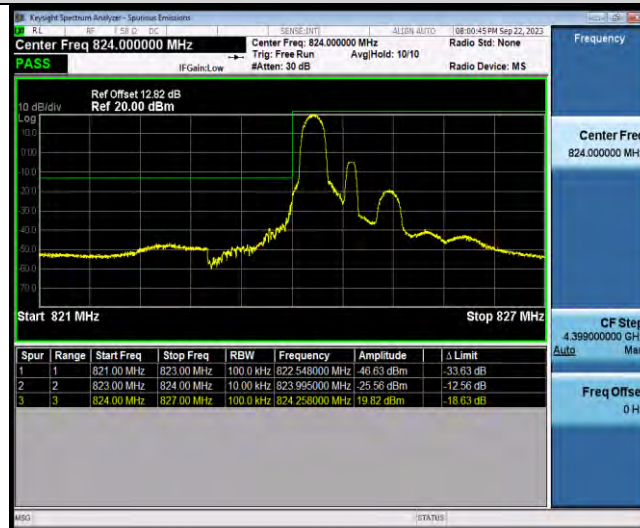


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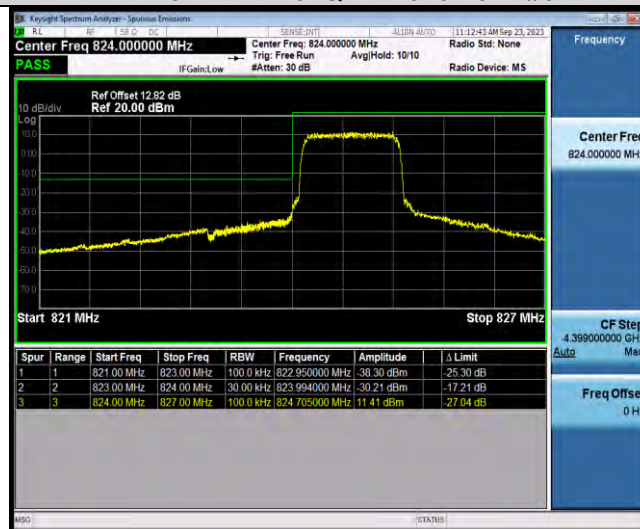
Test Report No.: W7L-P23080017RF04



Band5-1.4MHz-64QAM-20407-1RB#0



Band5-1.4MHz-64QAM-20407-6RB#0

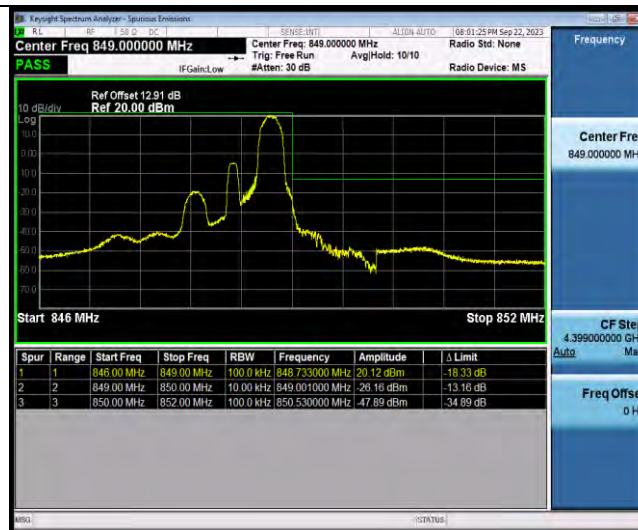


Band5-1.4MHz-64QAM-20643-1RB#5



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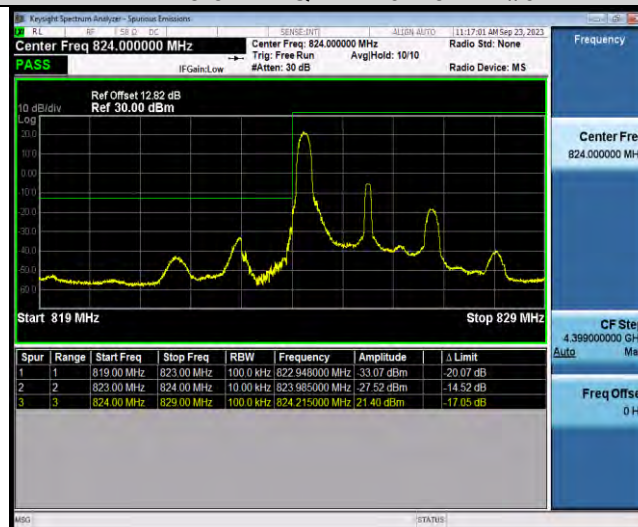
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Band5-1.4MHz-64QAM-20643-6RB#0



Band5-3MHz-QPSK-20415-1RB#0

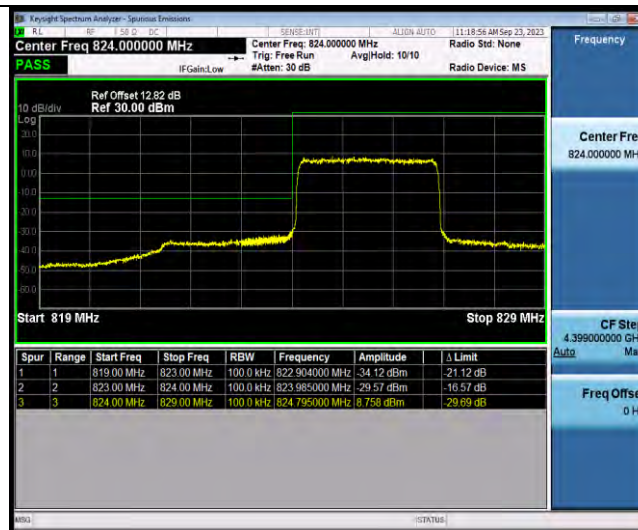


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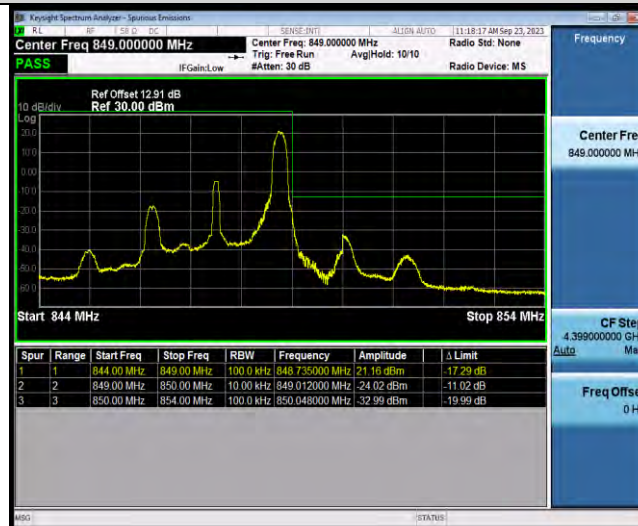


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Test Report No.: W7L-P23080017RF04



Band5-3MHz-QPSK-20635-1RB#14



Band5-3MHz-QPSK-20635-15RB#0

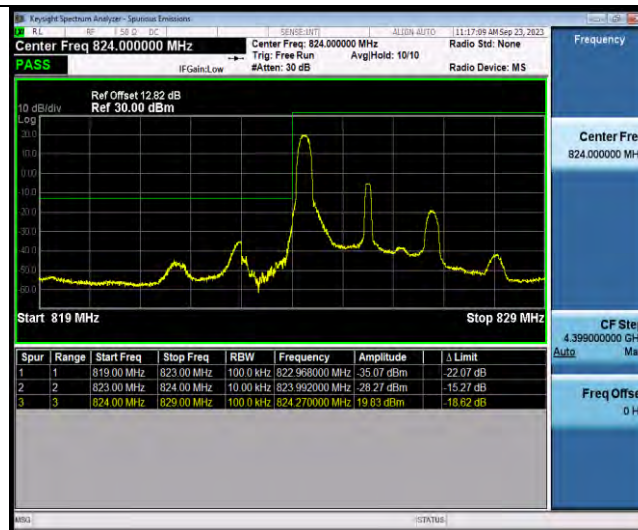


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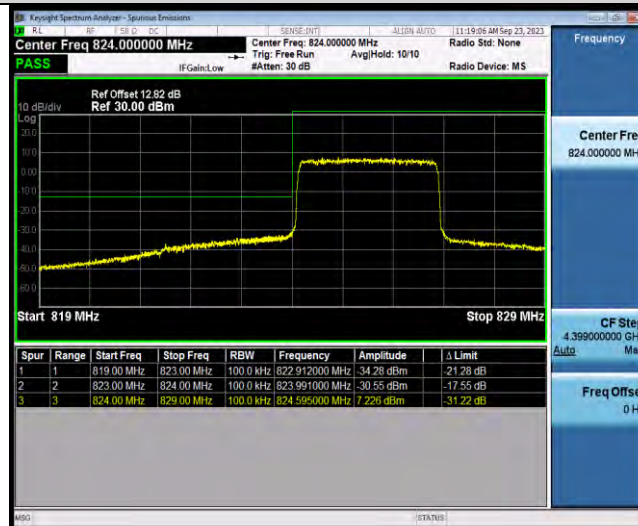


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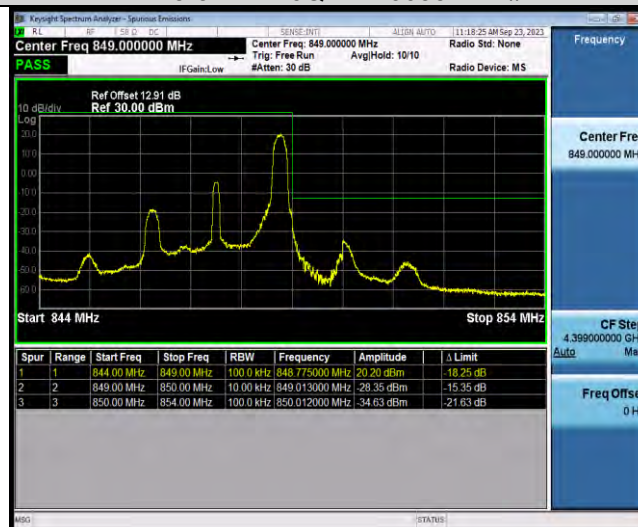
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Band5-3MHz-16QAM-20415-15RB#0



Band5-3MHz-16QAM-20635-1RB#14



Band5-3MHz-16QAM-20635-15RB#0

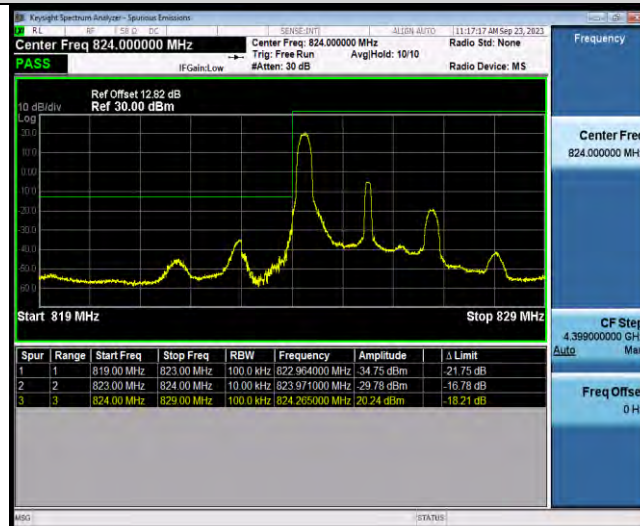


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Band5-3MHz-64QAM-20415-1RB#0



Band5-3MHz-64QAM-20415-15RB#0

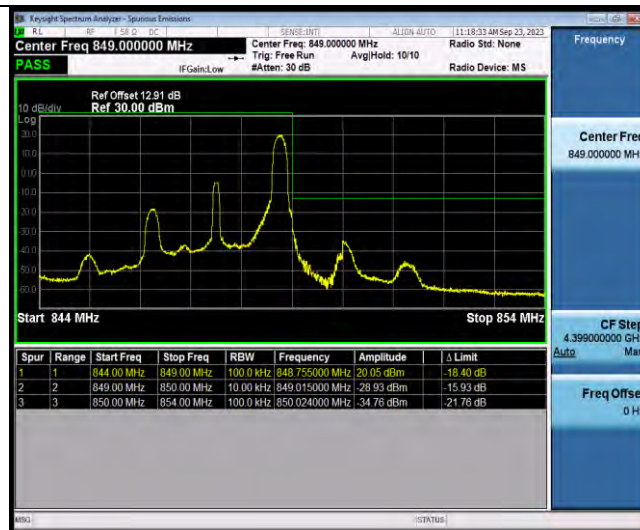


Band5-3MHz-64QAM-20635-1RB#14



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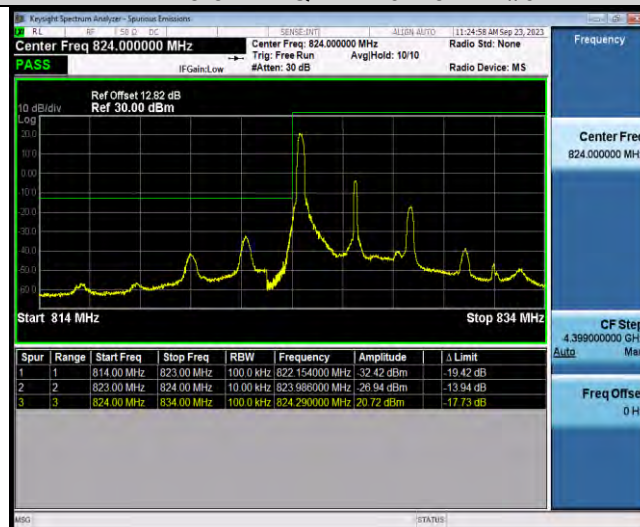
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Band5-3MHz-64QAM-20635-15RB#0



Band5-5MHz-QPSK-20425-1RB#0

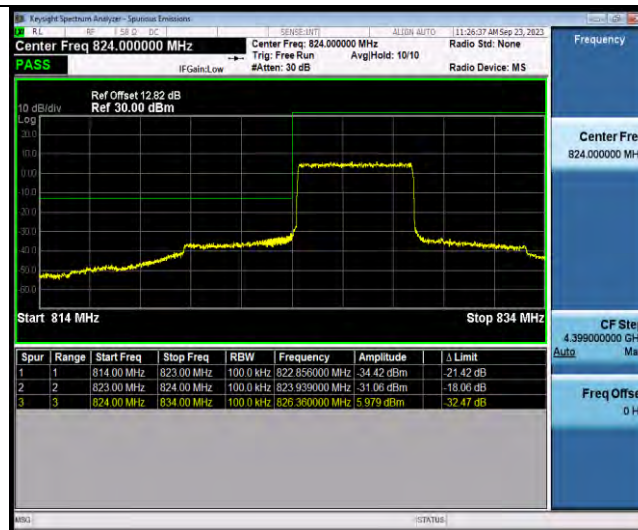


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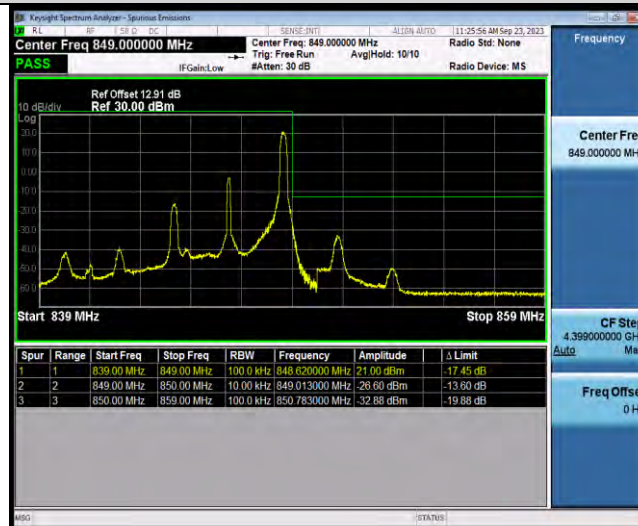


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Test Report No.: W7L-P23080017RF04



Band5-5MHz-QPSK-20625-1RB#24



Band5-5MHz-QPSK-20625-25RB#0

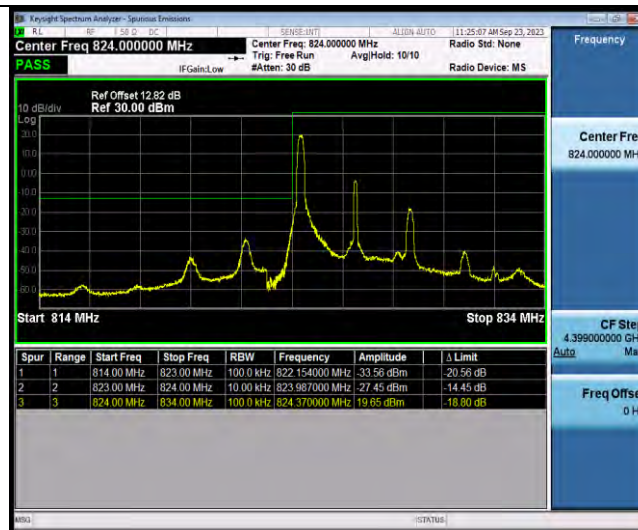


Band5-5MHz-16QAM-20425-1RB#0

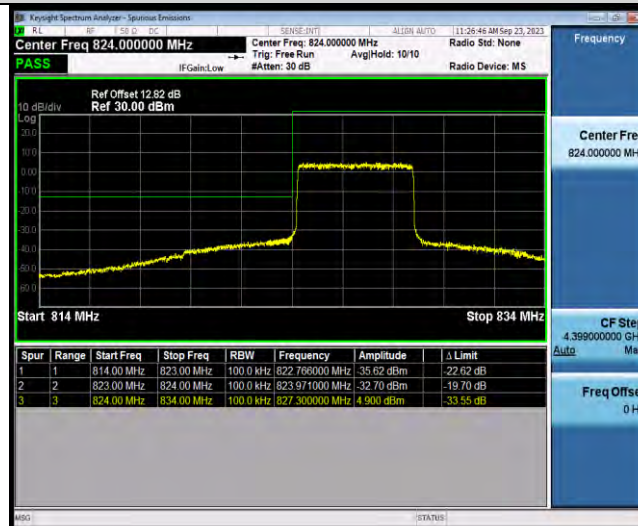


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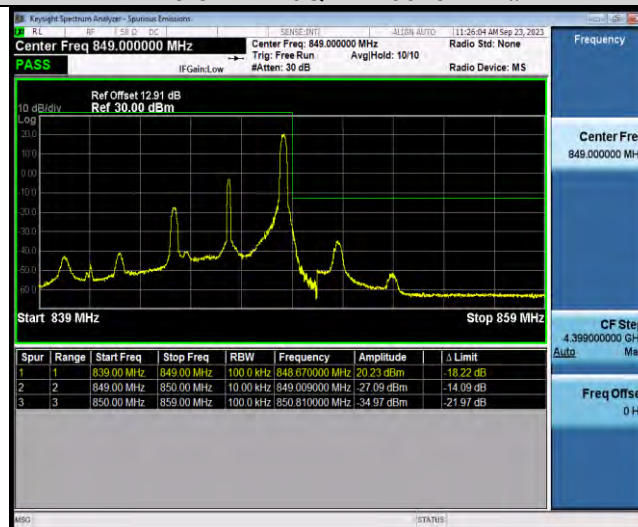
Test Report No.: W7L-P23080017RF04



Band5-5MHz-16QAM-20425-25RB#0



Band5-5MHz-16QAM-20625-1RB#24



Band5-5MHz-16QAM-20625-25RB#0

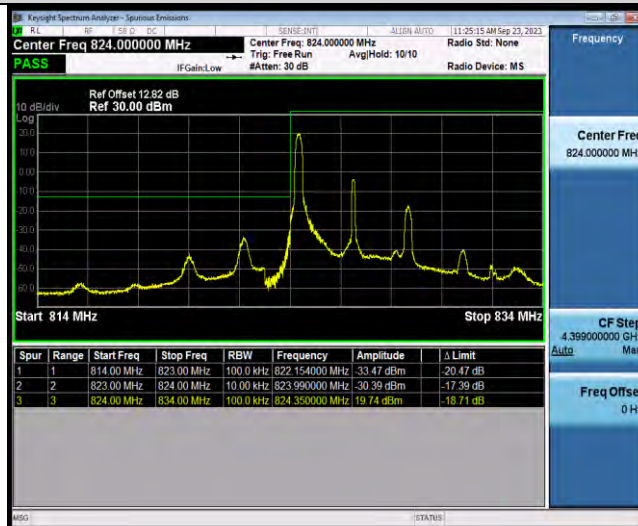


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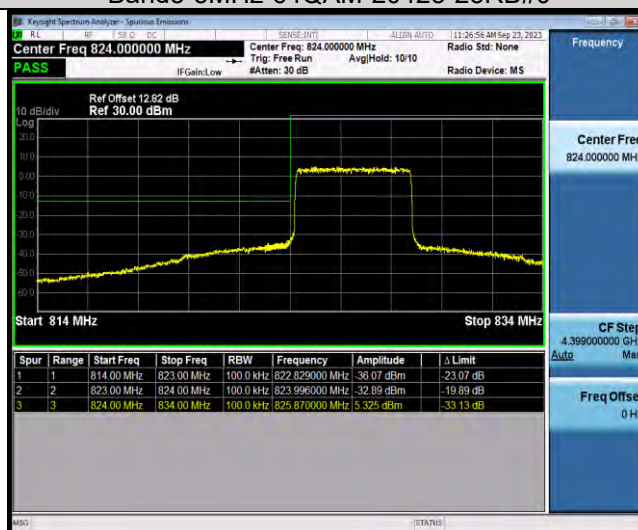
Test Report No.: W7L-P23080017RF04



Band5-5MHz-64QAM-20425-1RB#0



Band5-5MHz-64QAM-20425-25RB#0

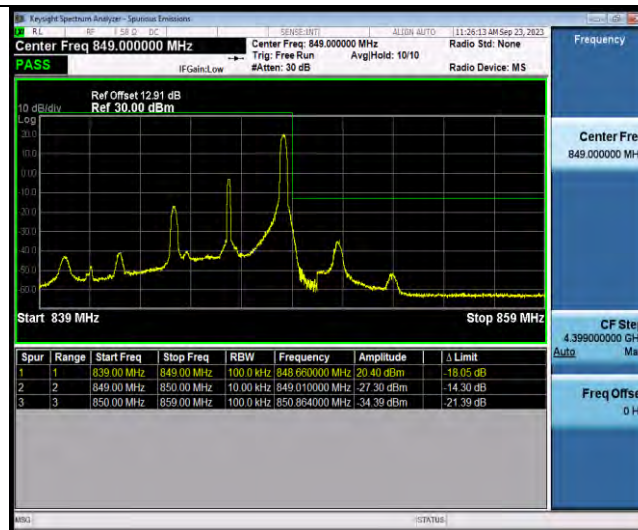


Band5-5MHz-64QAM-20625-1RB#24



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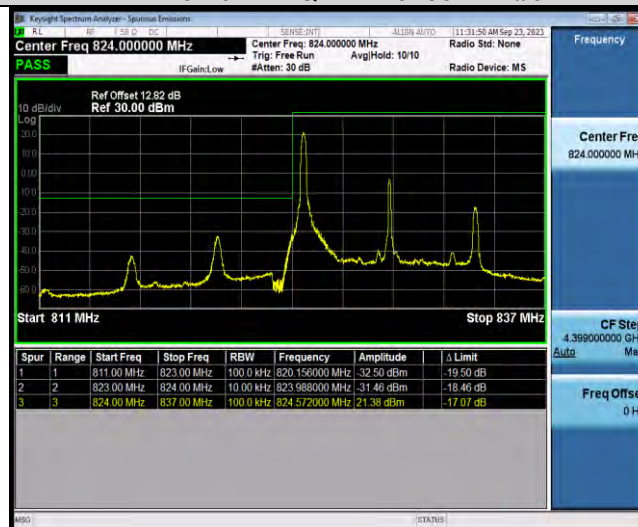
Test Report No.: W7L-P23080017RF04



Band5-5MHz-64QAM-20625-25RB#0



Band5-10MHz-QPSK-20450-1RB#0

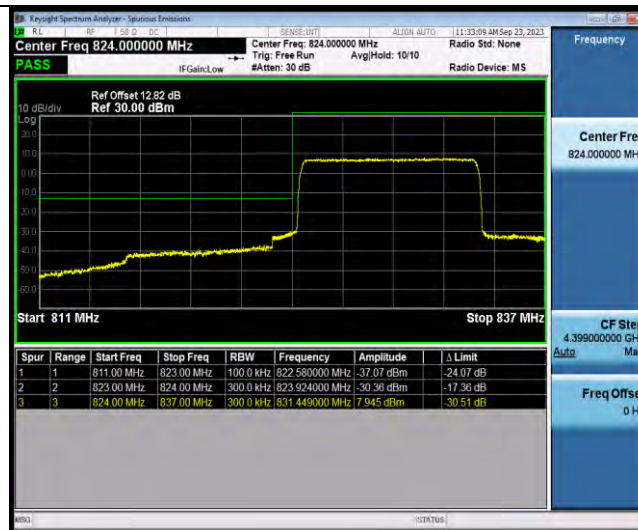


Band5-10MHz-QPSK-20450-50RB#0

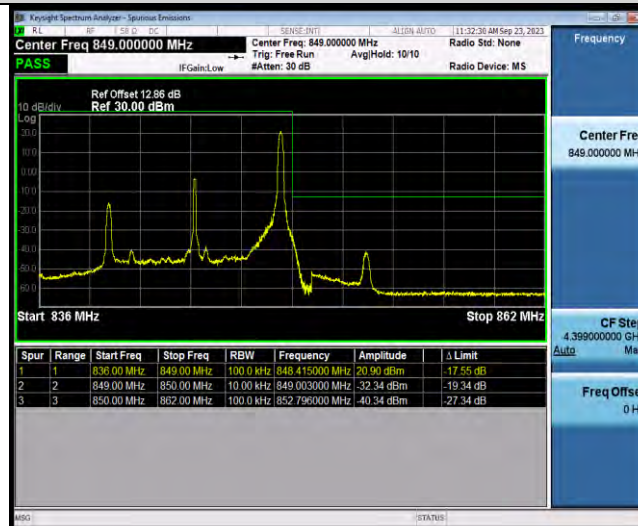


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Test Report No.: W7L-P23080017RF04



Band5-10MHz-QPSK-20600-1RB#49



Band5-10MHz-QPSK-20600-50RB#0

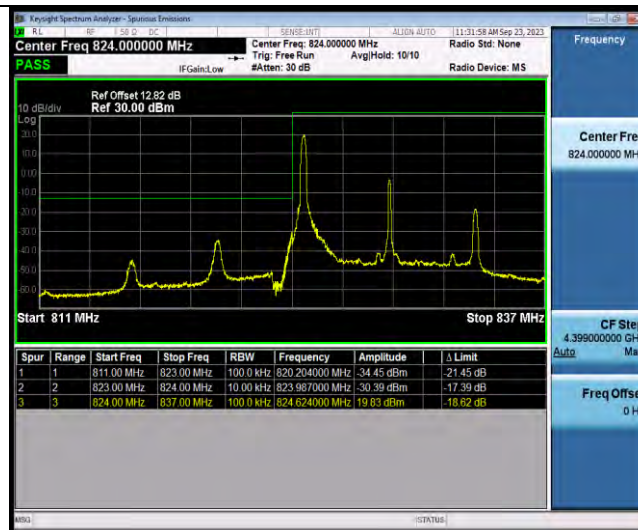


Band5-10MHz-16QAM-20450-1RB#0

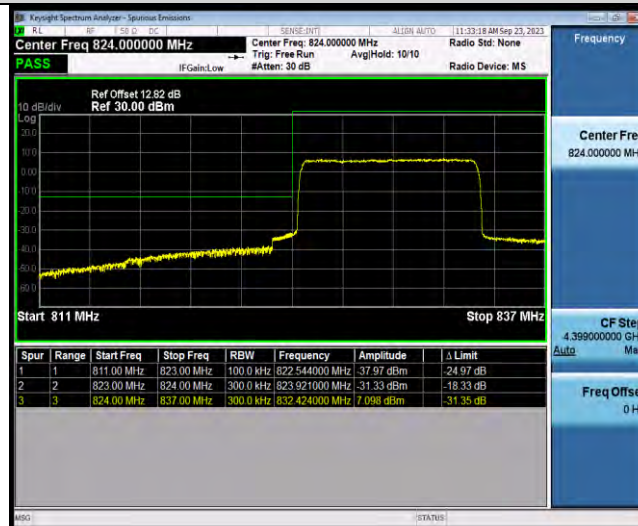


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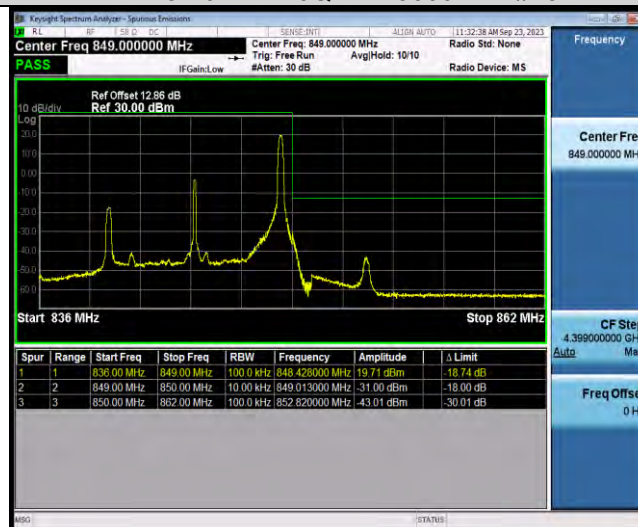
Test Report No.: W7L-P23080017RF04



Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20600-1RB#49



Band5-10MHz-16QAM-20600-50RB#0

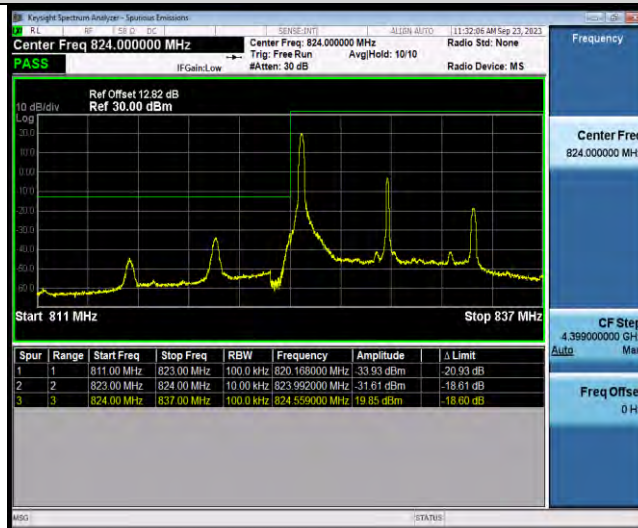


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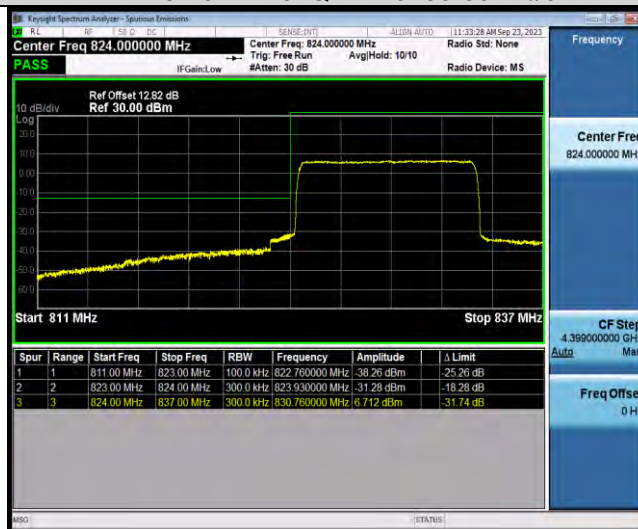
Test Report No.: W7L-P23080017RF04



Band5-10MHz-64QAM-20450-1RB#0



Band5-10MHz-64QAM-20450-50RB#0



Band5-10MHz-64QAM-20600-1RB#49



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Test Report No.: W7L-P23080017RF04



Band5-10MHz-64QAM-20600-50RB#0



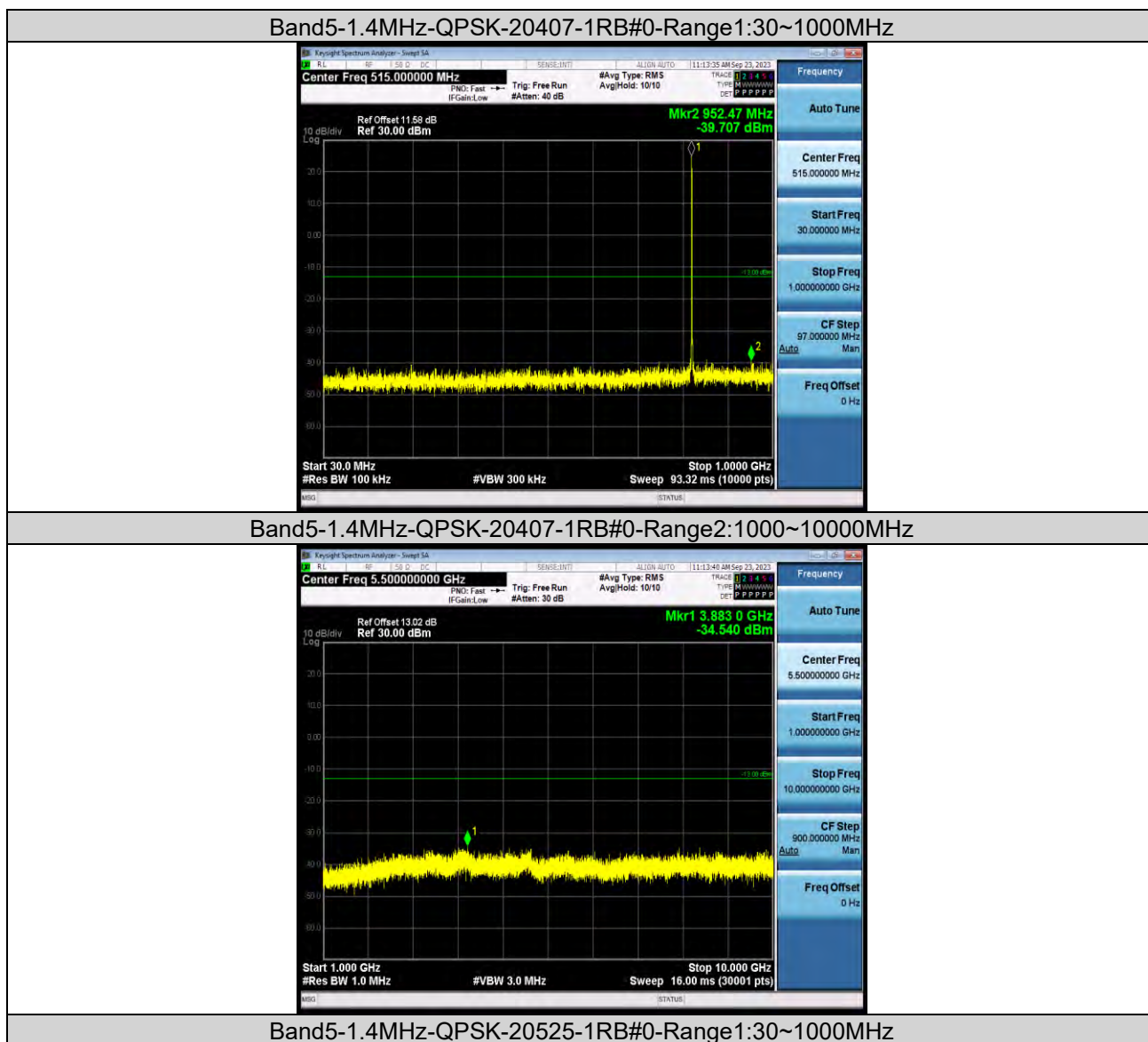


## CONDUCTED SPURIOUS EMISSION

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range      | Result (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|----------------------|--------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | Range1:30~1000MHz    | -39.71       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | Range2:1000~10000MHz | -34.54       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | Range1:30~1000MHz    | -40.01       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | Range2:1000~10000MHz | -33.95       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | Range1:30~1000MHz    | -39          | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | Range2:1000~10000MHz | -34.09       | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | Range1:30~1000MHz    | -39.03       | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 1RB#0            | Range2:1000~10000MHz | -33.59       | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 1RB#0            | Range1:30~1000MHz    | -38.93       | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 1RB#0            | Range2:1000~10000MHz | -32.4        | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 1RB#0            | Range1:30~1000MHz    | -40.24       | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 1RB#0            | Range2:1000~10000MHz | -32.93       | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 1RB#0            | Range1:30~1000MHz    | -38.96       | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 1RB#0            | Range2:1000~10000MHz | -33.49       | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 1RB#0            | Range1:30~1000MHz    | -40.62       | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 1RB#0            | Range2:1000~10000MHz | -33.67       | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 1RB#0            | Range1:30~1000MHz    | -40.41       | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 1RB#0            | Range2:1000~10000MHz | -33.85       | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 1RB#0            | Range1:30~1000MHz    | -39.74       | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 1RB#0            | Range2:1000~10000MHz | -34.03       | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 1RB#0            | Range1:30~1000MHz    | -39.8        | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 1RB#0            | Range2:1000~10000MHz | -33.57       | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 1RB#0            | Range1:30~1000MHz    | -38.69       | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 1RB#0            | Range2:1000~10000MHz | -33.02       | PASS    |

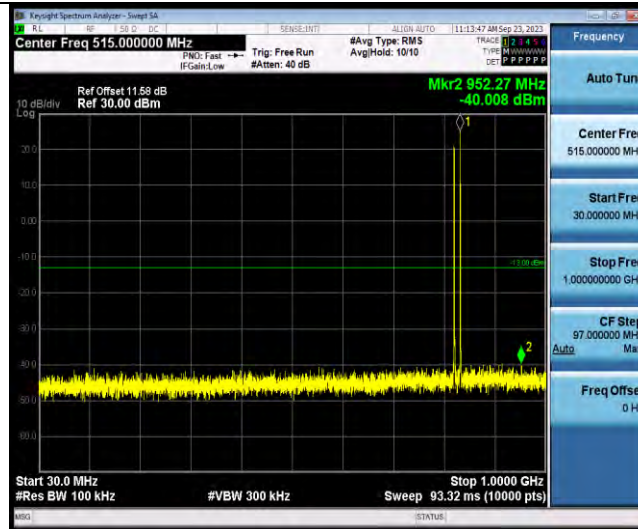
## Test Graphs



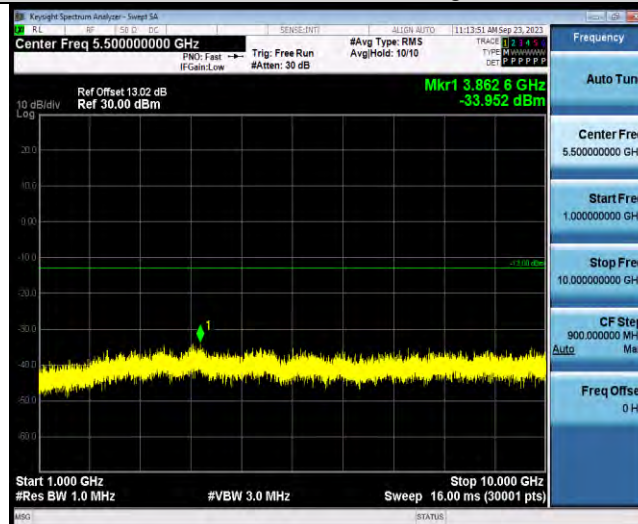


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Test Report No.: W7L-P23080017RF04



Band5-1.4MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Band5-1.4MHz-QPSK-20643-1RB#0-Range1:30~1000MHz

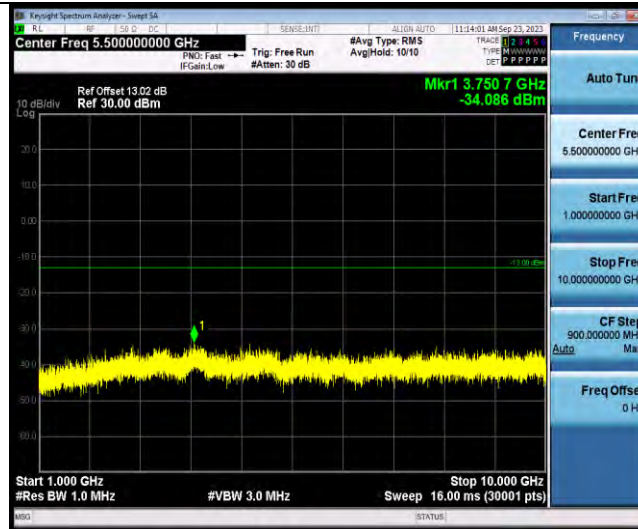


Band5-1.4MHz-QPSK-20643-1RB#0-Range2:1000~10000MHz

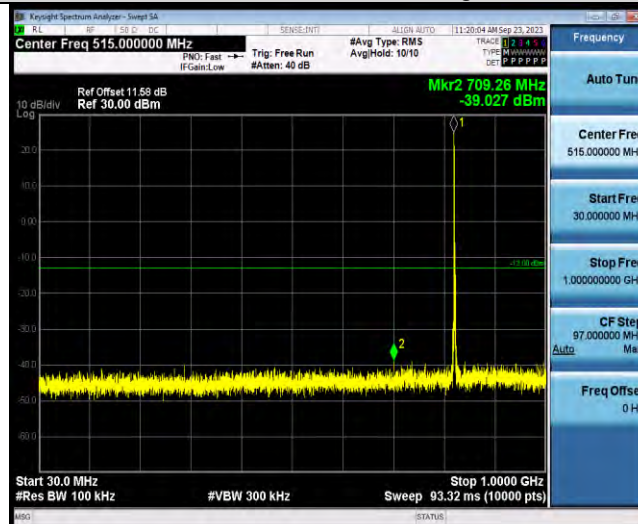


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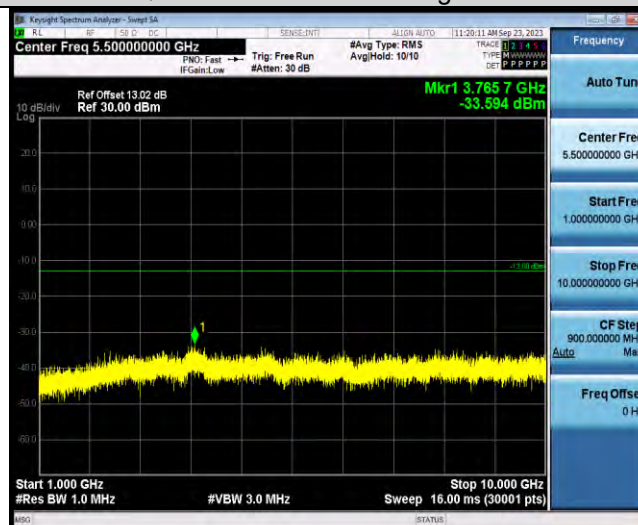
Test Report No.: W7L-P23080017RF04



Band5-3MHz-QPSK-20415-1RB#0-Range1:30~1000MHz



Band5-3MHz-QPSK-20415-1RB#0-Range2:1000~10000MHz

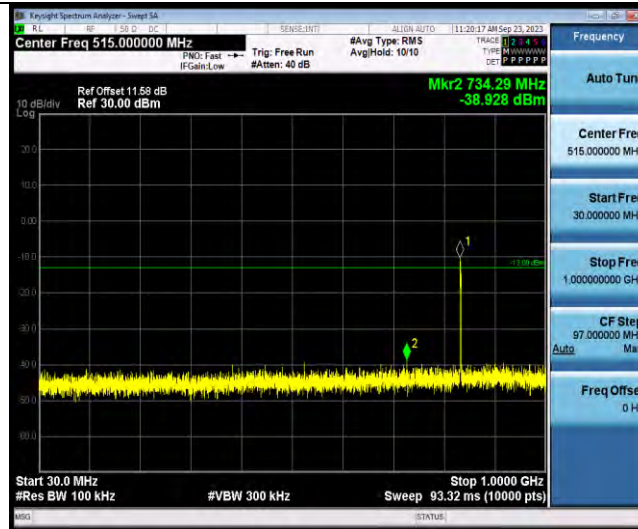


Band5-3MHz-QPSK-20525-1RB#0-Range1:30~1000MHz

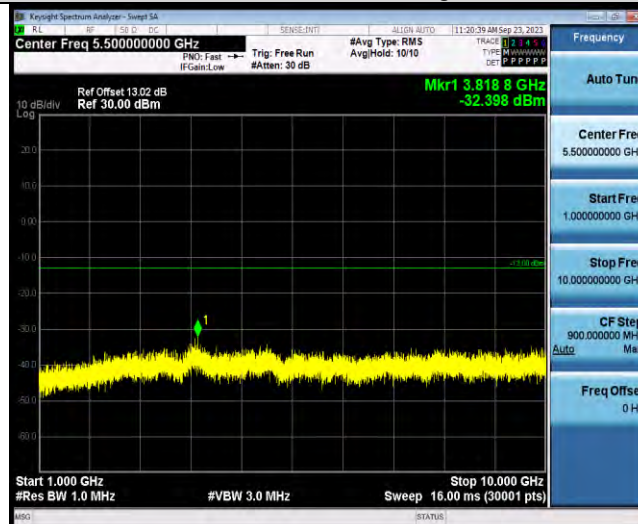


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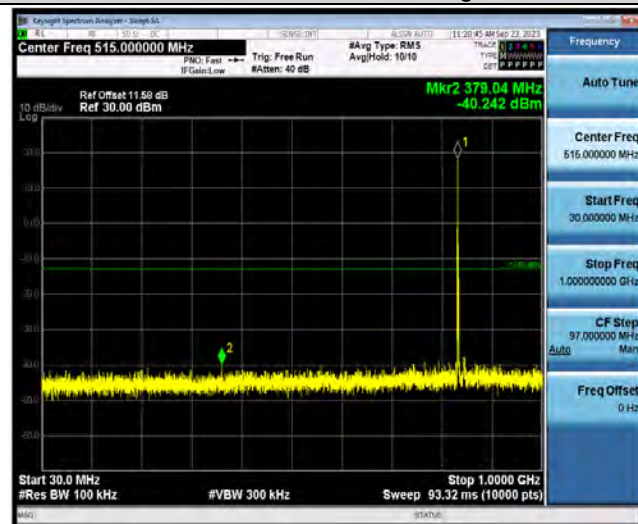
Test Report No.: W7L-P23080017RF04



Band5-3MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Band5-3MHz-QPSK-20635-1RB#0-Range1:30~1000MHz

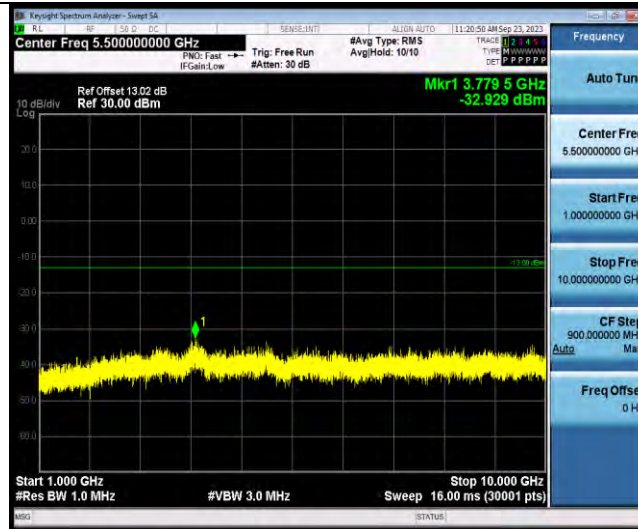


Band5-3MHz-QPSK-20635-1RB#0-Range2:1000~10000MHz

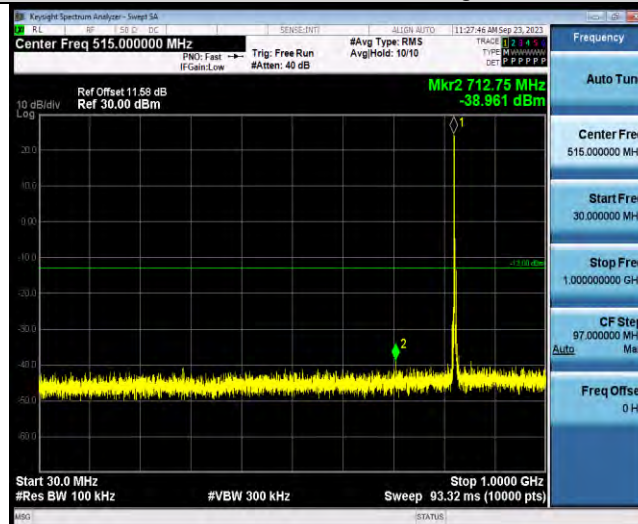


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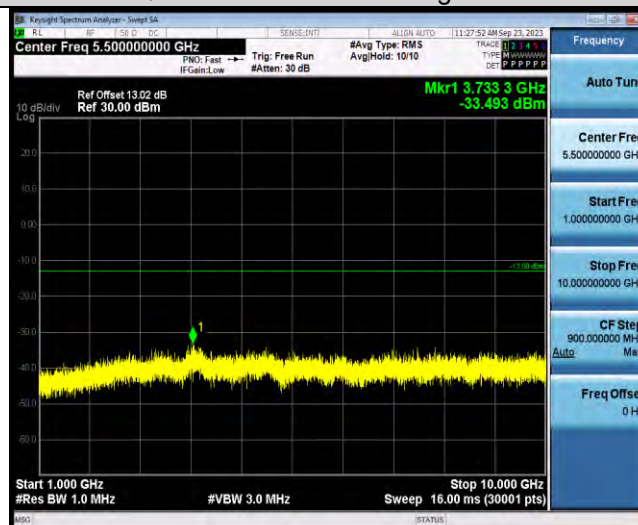
Test Report No.: W7L-P23080017RF04



Band5-5MHz-QPSK-20425-1RB#0-Range1:30~1000MHz



Band5-5MHz-QPSK-20425-1RB#0-Range2:1000~10000MHz



Band5-5MHz-QPSK-20525-1RB#0-Range1:30~1000MHz

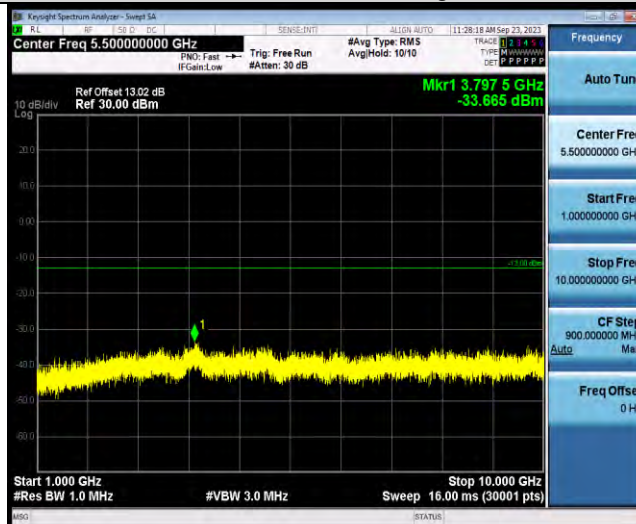


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VERITAS

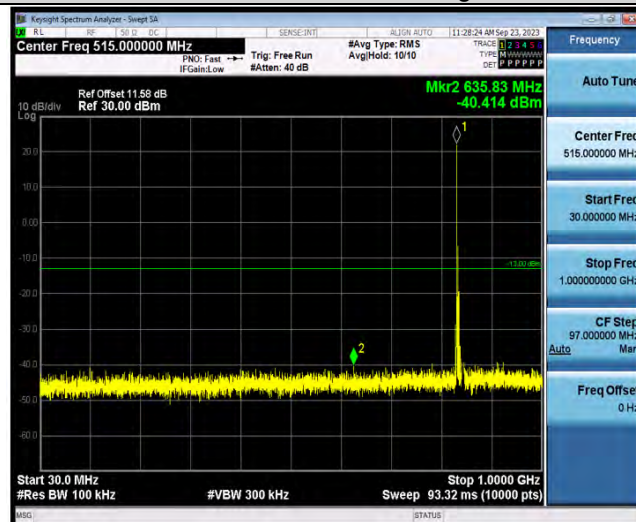
Test Report No.: W7L-P23080017RF04



Band5-5MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Band5-5MHz-QPSK-20625-1RB#0-Range1:30~1000MHz

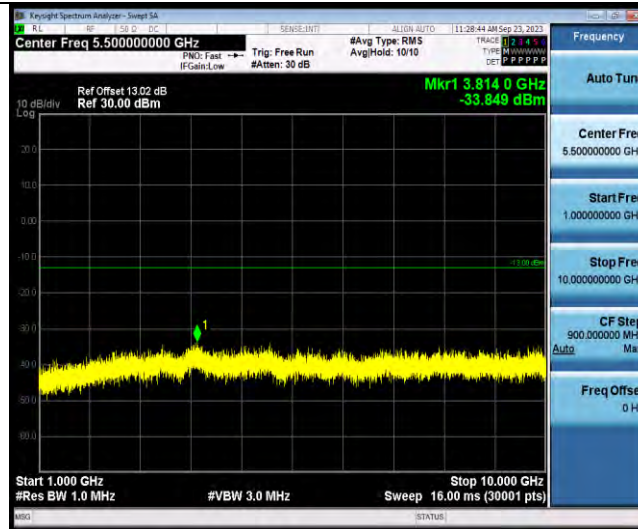


Band5-5MHz-QPSK-20625-1RB#0-Range2:1000~10000MHz

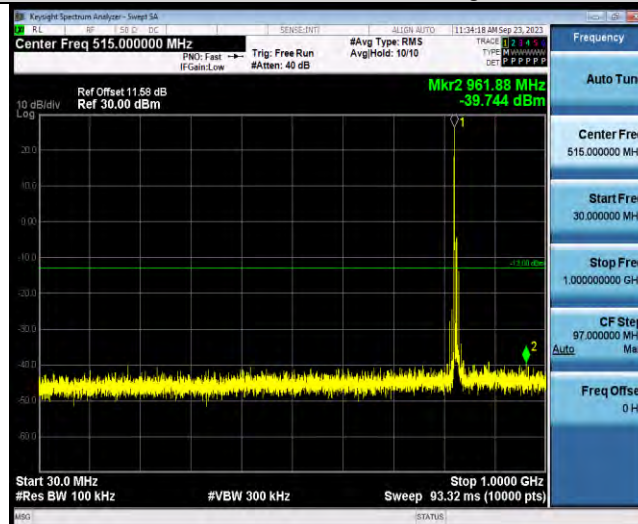


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VERITAS

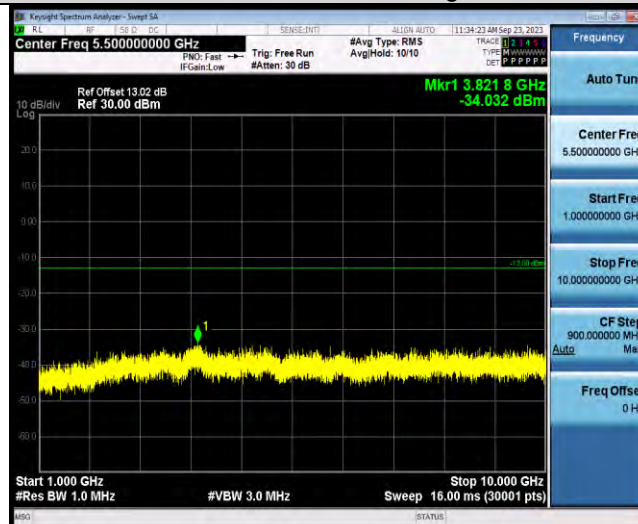
Test Report No.: W7L-P23080017RF04



Band5-10MHz-QPSK-20450-1RB#0-Range1:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz

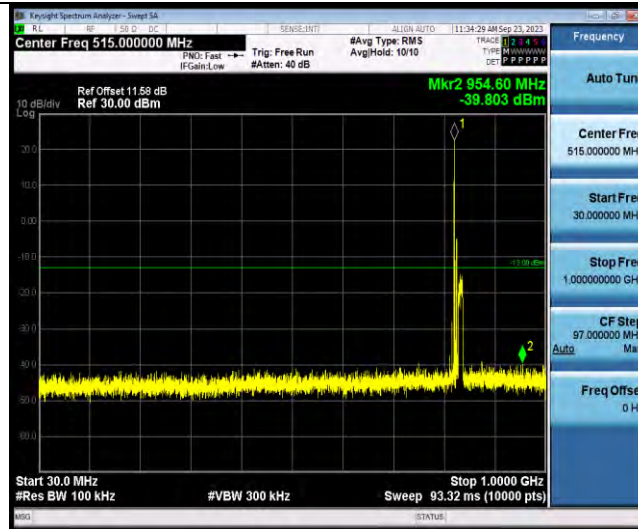


Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz

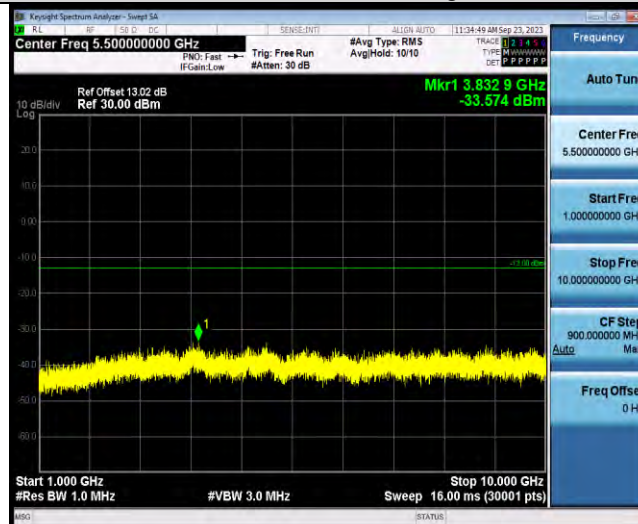


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VERITAS

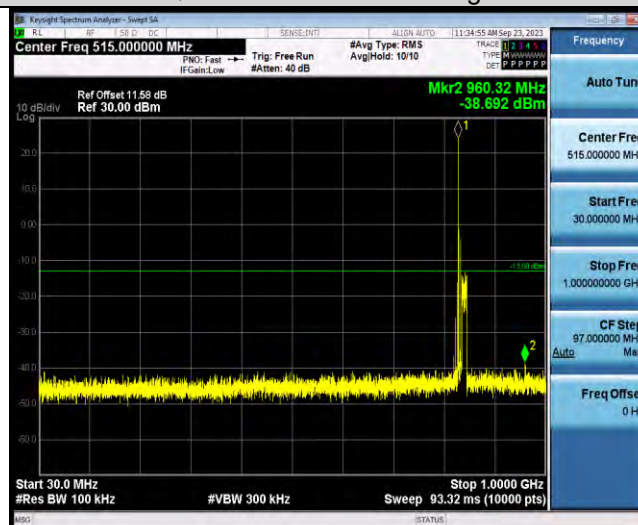
Test Report No.: W7L-P23080017RF04



Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz

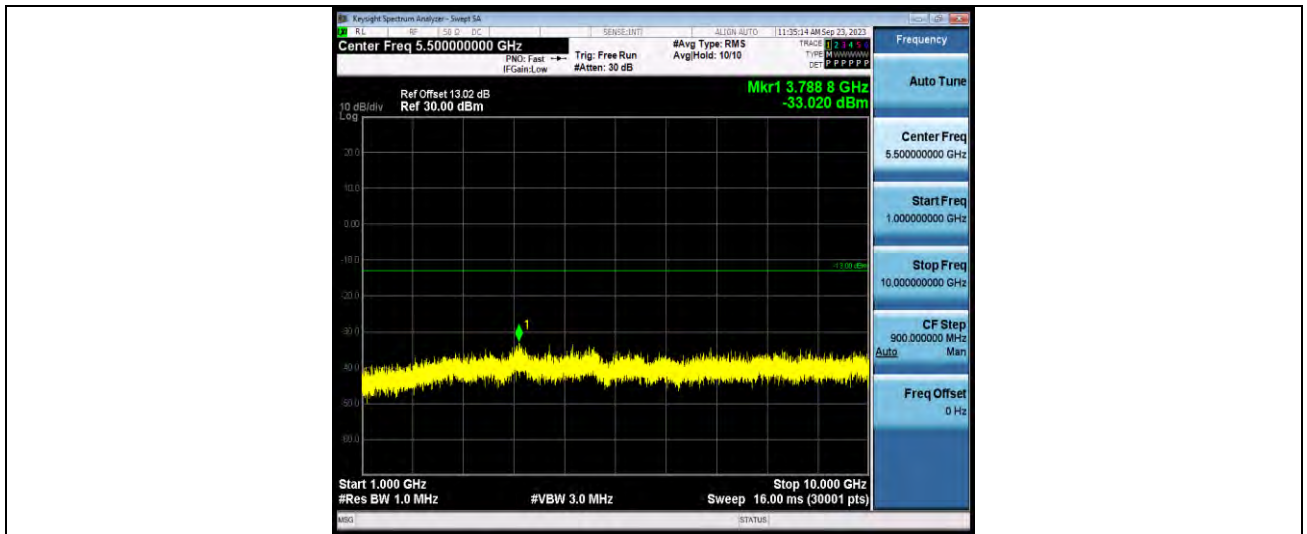


Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz



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Test Report No.: W7L-P23080017RF04





## FREQUENCY STABILITY

## Test Result

| Voltage |           |            |         |              |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5   | 10MHz     | QPSK       | 20450   | 50RB#0       | LV            | NT               | -8.75          | -0.010555       | ±2.5        | PASS    |
| Band5   | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | NT               | -9.53          | -0.011496       | ±2.5        | PASS    |
| Band5   | 10MHz     | QPSK       | 20450   | 50RB#0       | HV            | NT               | -11.49         | -0.013860       | ±2.5        | PASS    |
| Band5   | 10MHz     | QPSK       | 20525   | 50RB#0       | LV            | NT               | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band5   | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | NT               | -4.68          | -0.005595       | ±2.5        | PASS    |
| Band5   | 10MHz     | QPSK       | 20525   | 50RB#0       | HV            | NT               | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band5   | 10MHz     | QPSK       | 20600   | 50RB#0       | LV            | NT               | -9.16          | -0.010853       | ±2.5        | PASS    |
| Band5   | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | NT               | -10.47         | -0.012405       | ±2.5        | PASS    |
| Band5   | 10MHz     | QPSK       | 20600   | 50RB#0       | HV            | NT               | -11.34         | -0.013436       | ±2.5        | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5       | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | -30              | -11.96         | -0.014427       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | -20              | -9.74          | -0.011749       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | -10              | -11.82         | -0.014258       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | 0                | -5.38          | -0.006490       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | 10               | -9.03          | -0.010893       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | 20               | -14.31         | -0.017262       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | 30               | -2.90          | -0.003498       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | 40               | -12.62         | -0.015223       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20450   | 50RB#0       | NV            | 50               | -6.91          | -0.008335       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | -30              | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | -20              | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | -10              | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 0                | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 10               | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 20               | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 30               | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 40               | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 50               | 0.00           | 0.000000        | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | -30              | -9.57          | -0.011339       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | -20              | -8.08          | -0.009573       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | -10              | -10.07         | -0.011931       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | 0                | -10.97         | -0.012998       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | 10               | -8.05          | -0.009538       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | 20               | -8.28          | -0.009810       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | 30               | -5.79          | -0.006860       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | 40               | -18.47         | -0.021884       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20600   | 50RB#0       | NV            | 50               | -9.03          | -0.010699       | ±2.5        | PASS    |

## MAX Deviation calculation

| Frequency Stability            | Frequency (MHz) | Limit Line(MHz) | Result |
|--------------------------------|-----------------|-----------------|--------|
| $f_L -  \text{MAX}(\Delta f) $ | 824.50365       | $\geq 824$      | PASS   |
| $f_H +  \text{MAX}(\Delta f) $ | 848.49095       | $\leq 849$      |        |

- Note :
1.  $|\text{MAX}(\Delta f)|$  = Max Deviation
  2.  $f_L$  = Occ low channel  $f_L$ (-13dBm/MHz)
  3.  $f_H$  = Occ High channel  $f_H$ (-13dBm/MHz)
  4.  $|\text{MAX}(\Delta f)|$  = 18.47 Hz.