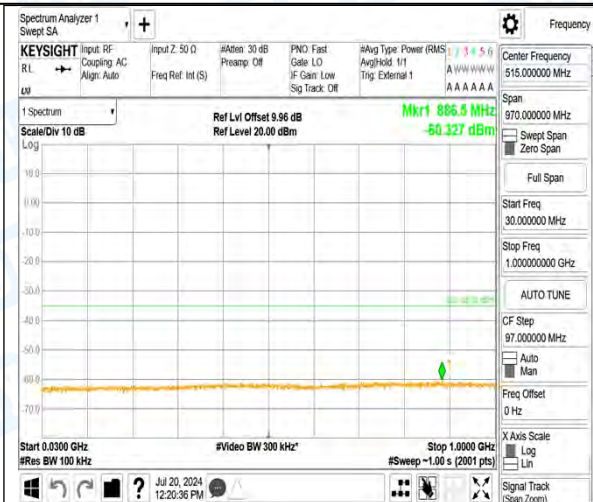




Band38\_5MHz\_QPSK\_38225\_1RB#0\_20000-27000\_20000-270

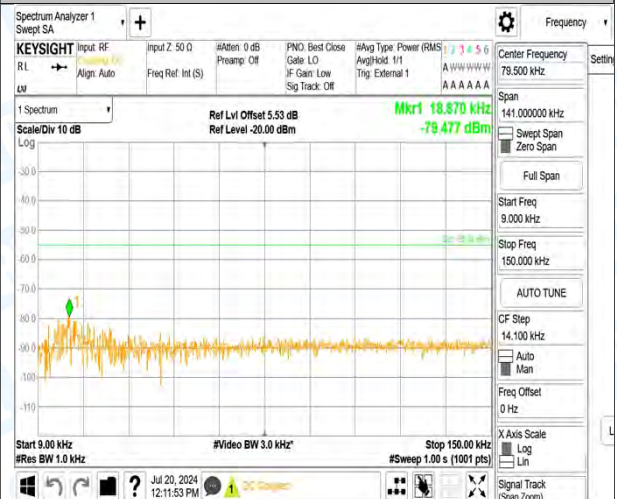
00



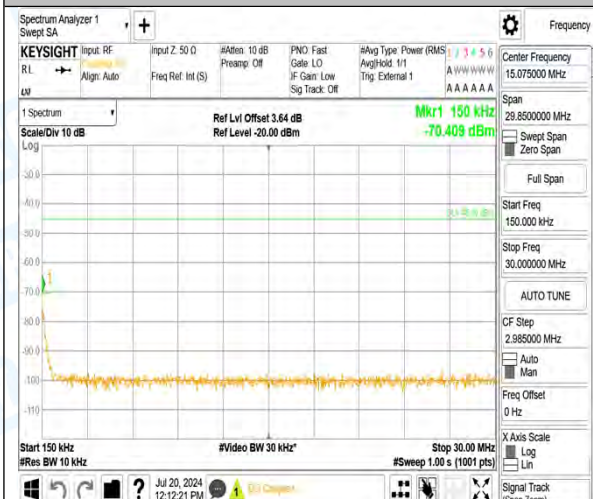
Band38\_5MHz\_16QAM\_37775\_1RB#0\_0.009-0.15\_0.009-0.15



Band38\_5MHz\_16QAM\_37775\_1RB#0\_0.15-30\_0.15-30



Band38\_5MHz\_16QAM\_37775\_1RB#0\_30-1000\_30-1000



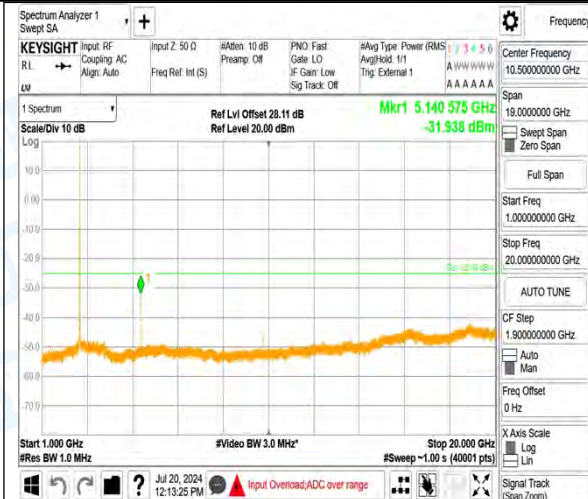
Band38\_5MHz\_16QAM\_37775\_1RB#0\_1000-20000\_1000-2000

0

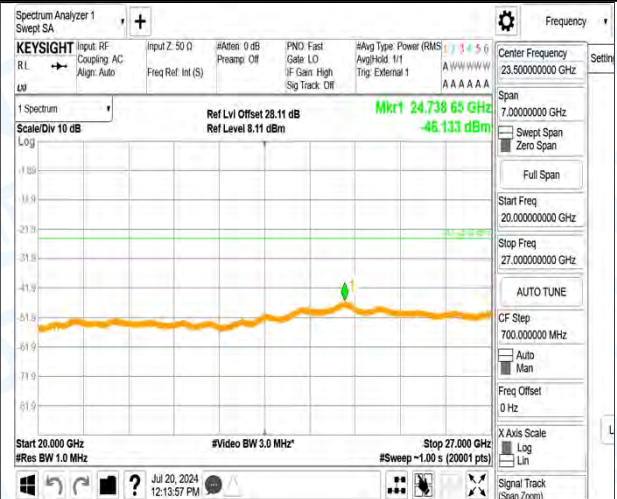


Band38\_5MHz\_16QAM\_37775\_1RB#0\_20000-27000\_20000-27

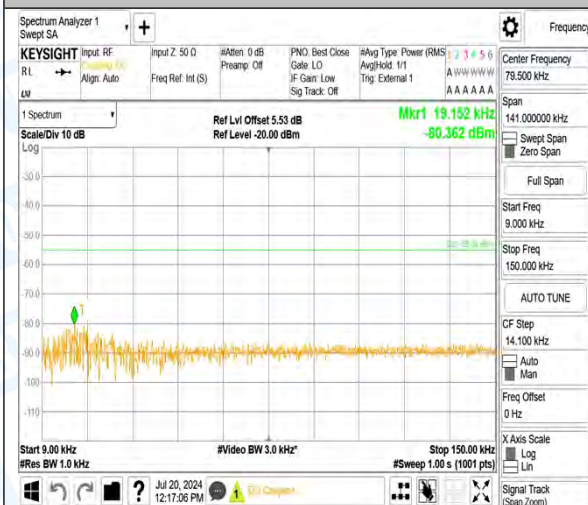
000



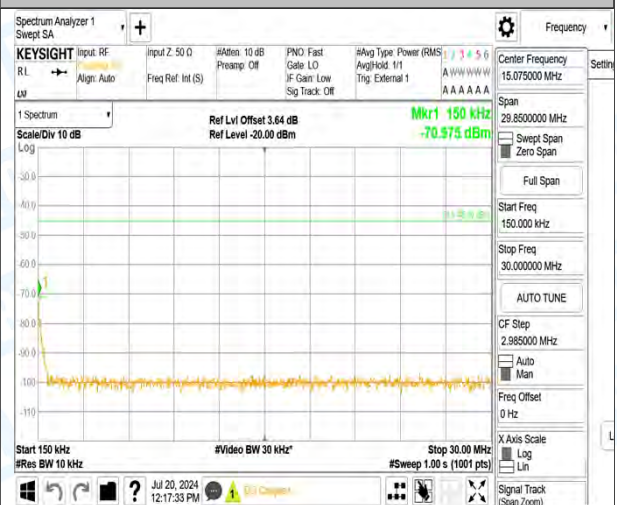
Band38\_5MHz\_16QAM\_38000\_1RB#0\_0.009-0.15\_0.009-0.15



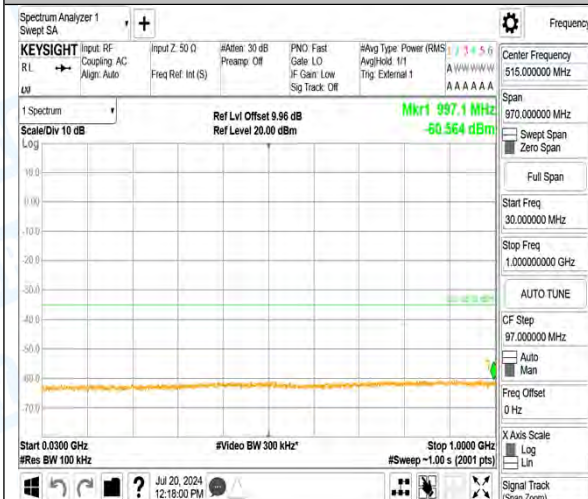
Band38\_5MHz\_16QAM\_38000\_1RB#0\_0.15-30\_0.15-30



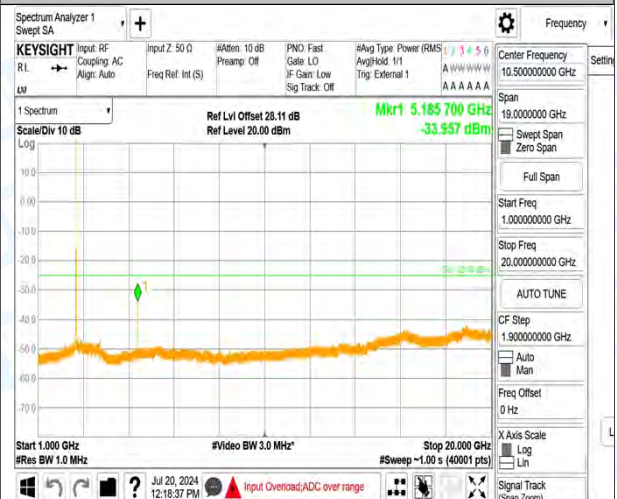
Band38\_5MHz\_16QAM\_38000\_1RB#0\_30-1000\_30-1000



Band38\_5MHz\_16QAM\_38000\_1RB#0\_1000-20000\_1000-20000

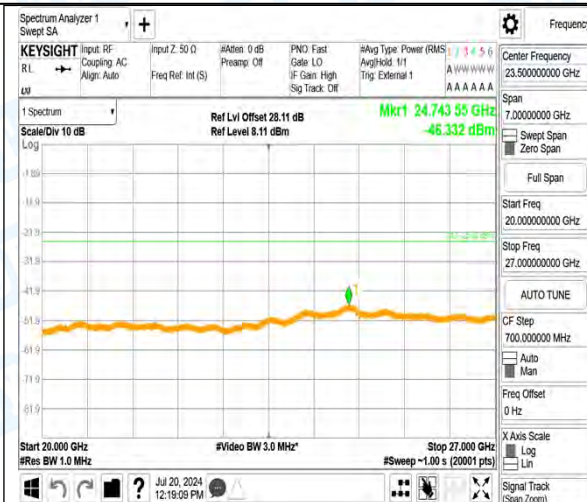


Band38\_5MHz\_16QAM\_38000\_1RB#0\_20000-27000\_20000-27000

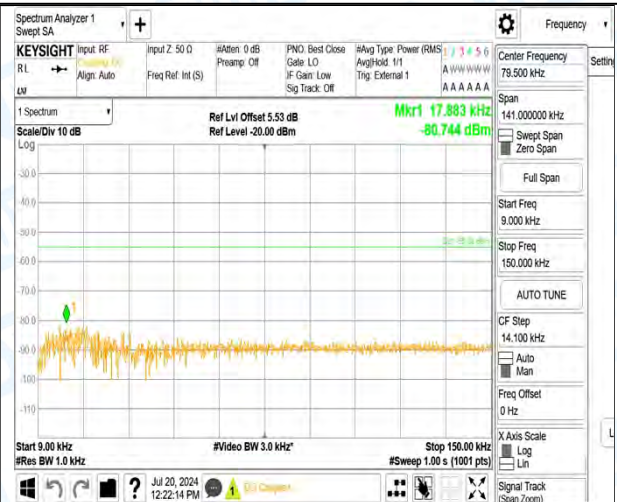


Band38\_5MHz\_16QAM\_38225\_1RB#0\_0.009-0.15\_0.009-0.15

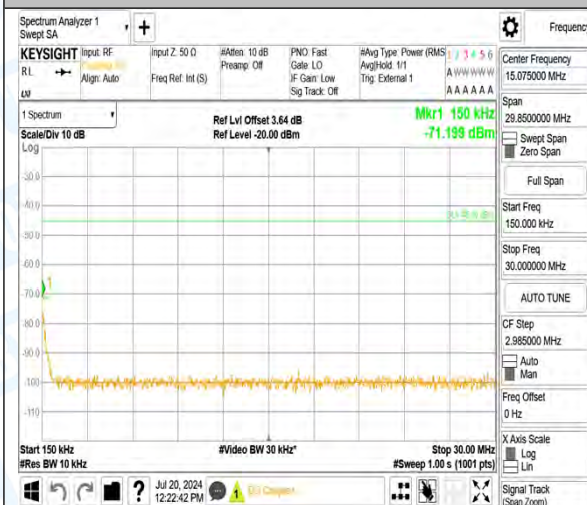
000



Band38\_5MHz\_16QAM\_38225\_1RB#0\_0.15~30\_0.15~30

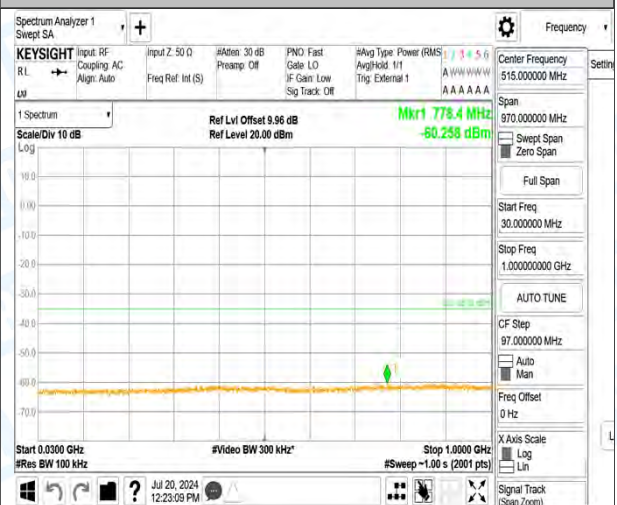


Band38\_5MHz\_16QAM\_38225\_1RB#0\_30~1000\_30~1000



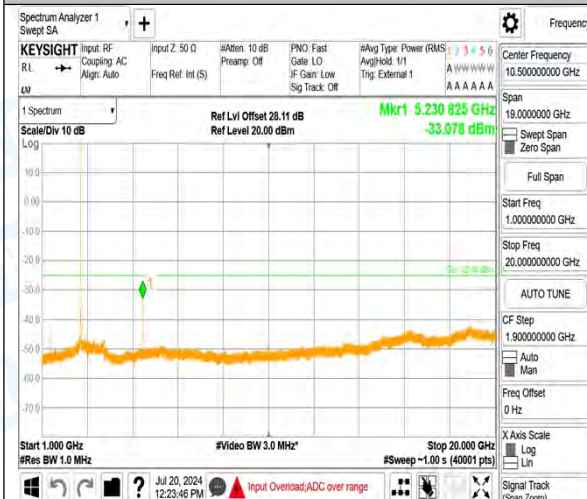
Band38\_5MHz\_16QAM\_38225\_1RB#0\_1000~20000\_1000~2000

0

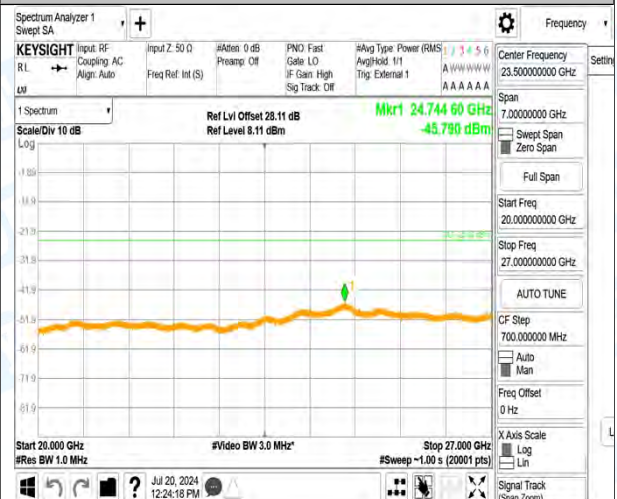


Band38\_5MHz\_16QAM\_38225\_1RB#0\_20000~27000\_20000~27

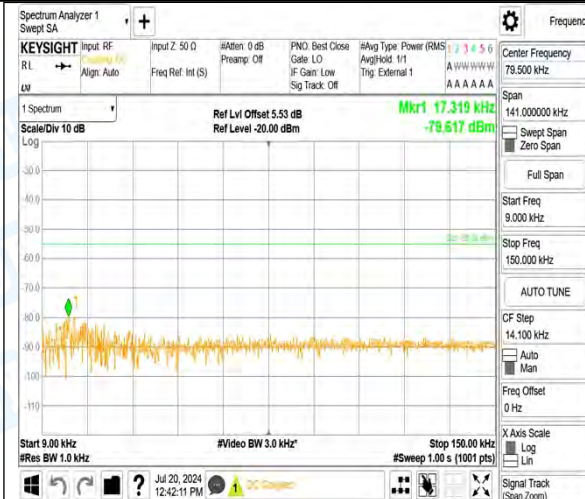
000



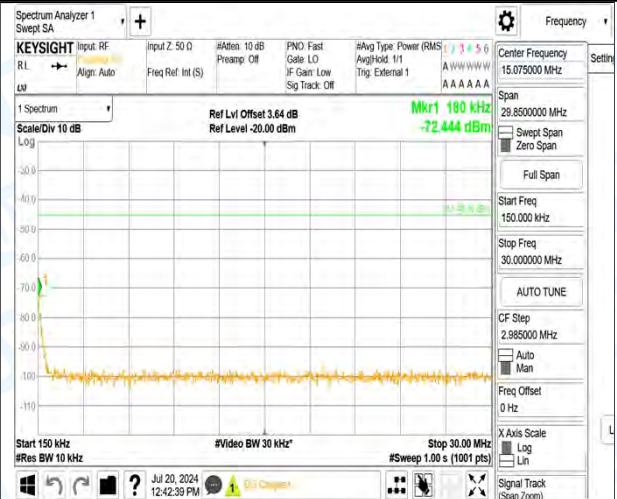
Band38\_10MHz\_QPSK\_37800\_1RB#0\_0.009~0.15\_0.009~0.15



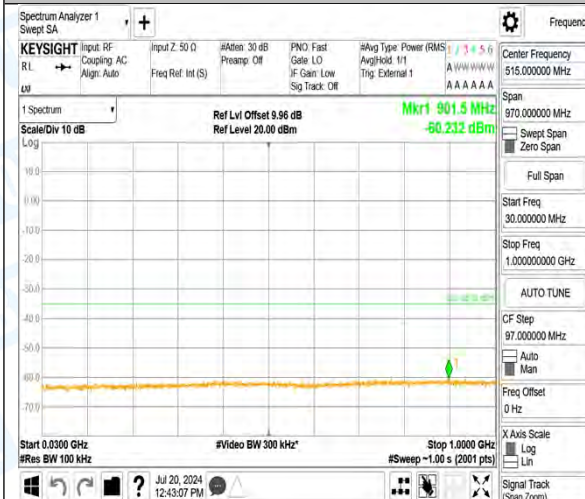
Band38\_10MHz\_QPSK\_37800\_1RB#0\_0.15~30\_0.15~30



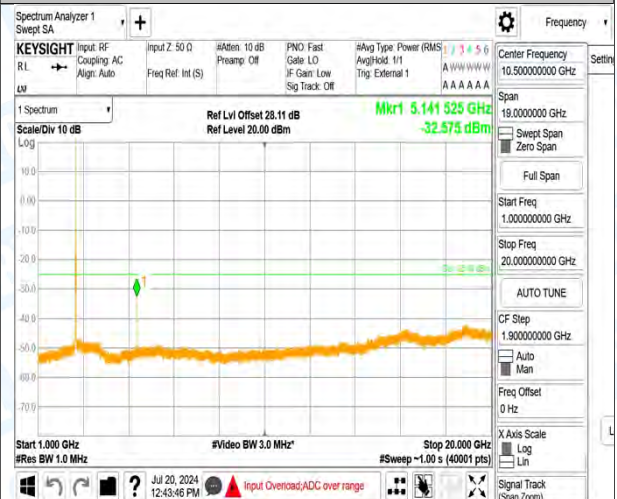
Band38\_10MHz\_QPSK\_37800\_1RB#0\_30~1000\_30~1000



Band38\_10MHz\_QPSK\_37800\_1RB#0\_1000~20000\_1000~2000  
0



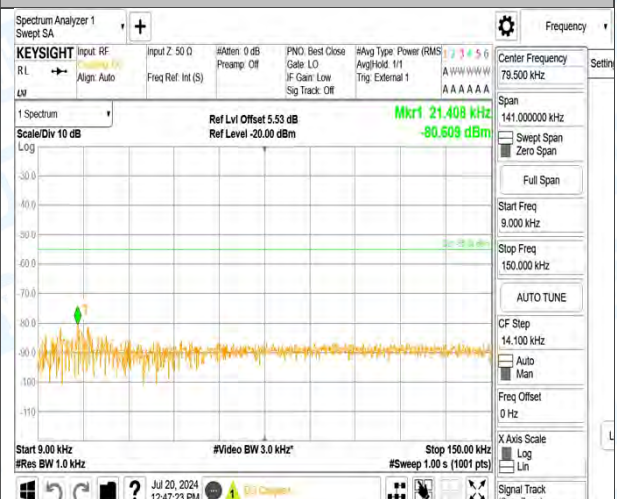
Band38\_10MHz\_QPSK\_37800\_1RB#0\_20000~27000\_20000~27  
000



Band38\_10MHz\_QPSK\_38000\_1RB#0\_0.009~0.15\_0.009~0.15

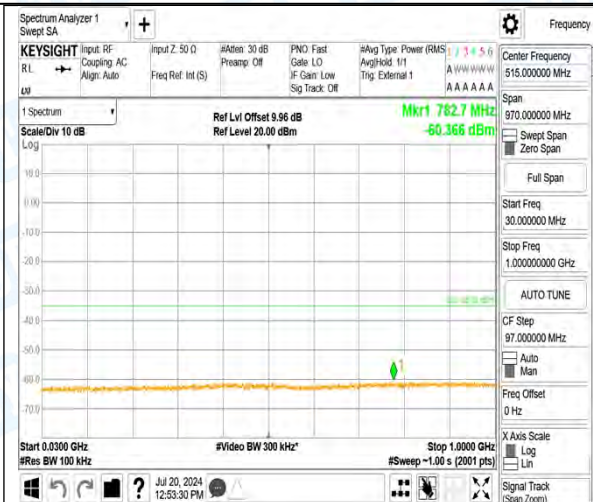


Band38\_10MHz\_QPSK\_38000\_1RB#0\_0.15~30\_0.15~30

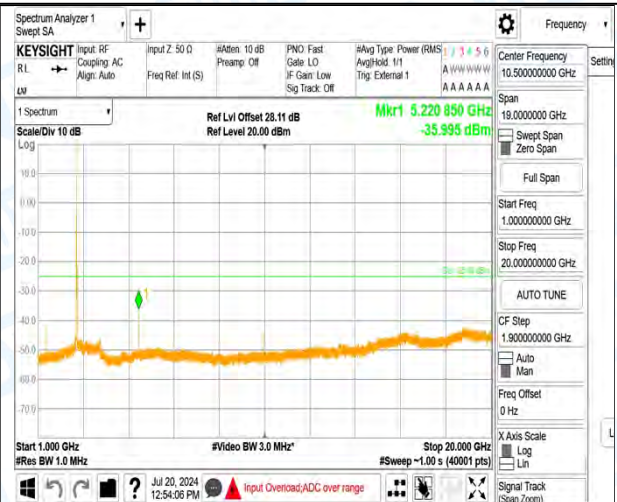


Band38\_10MHz\_QPSK\_38000\_1RB#0\_30~1000\_30~1000





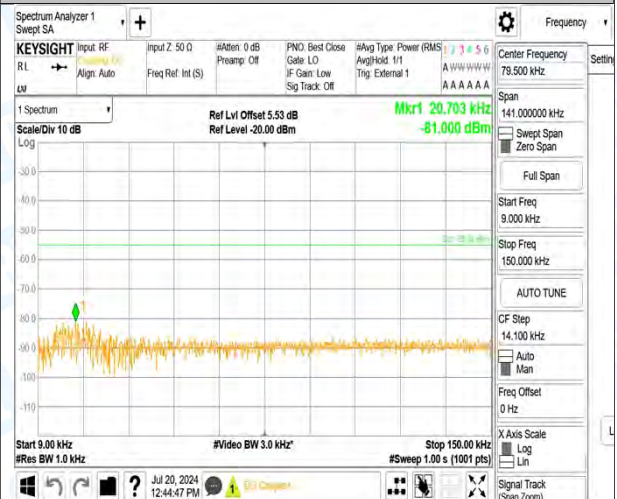
Band38\_10MHz\_QPSK\_38200\_1RB#0\_20000-27000\_20000-27000



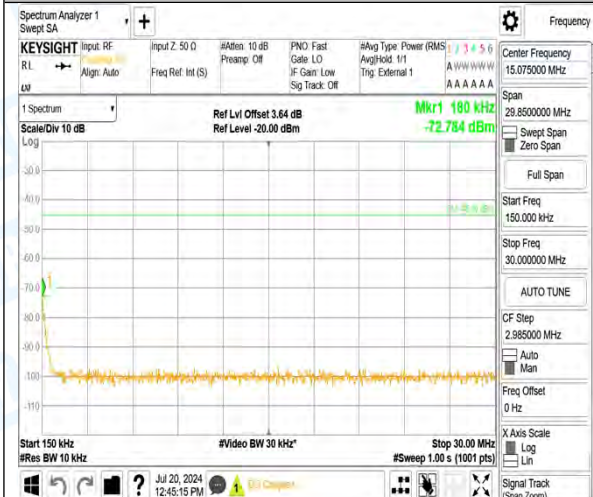
Band38\_10MHz\_16QAM\_37800\_1RB#0\_0.009-0.15\_0.009-0.15



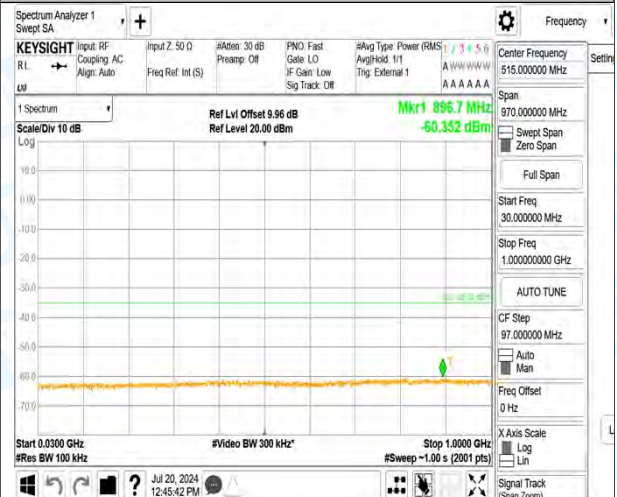
Band38\_10MHz\_16QAM\_37800\_1RB#0\_0.15-30\_0.15-30



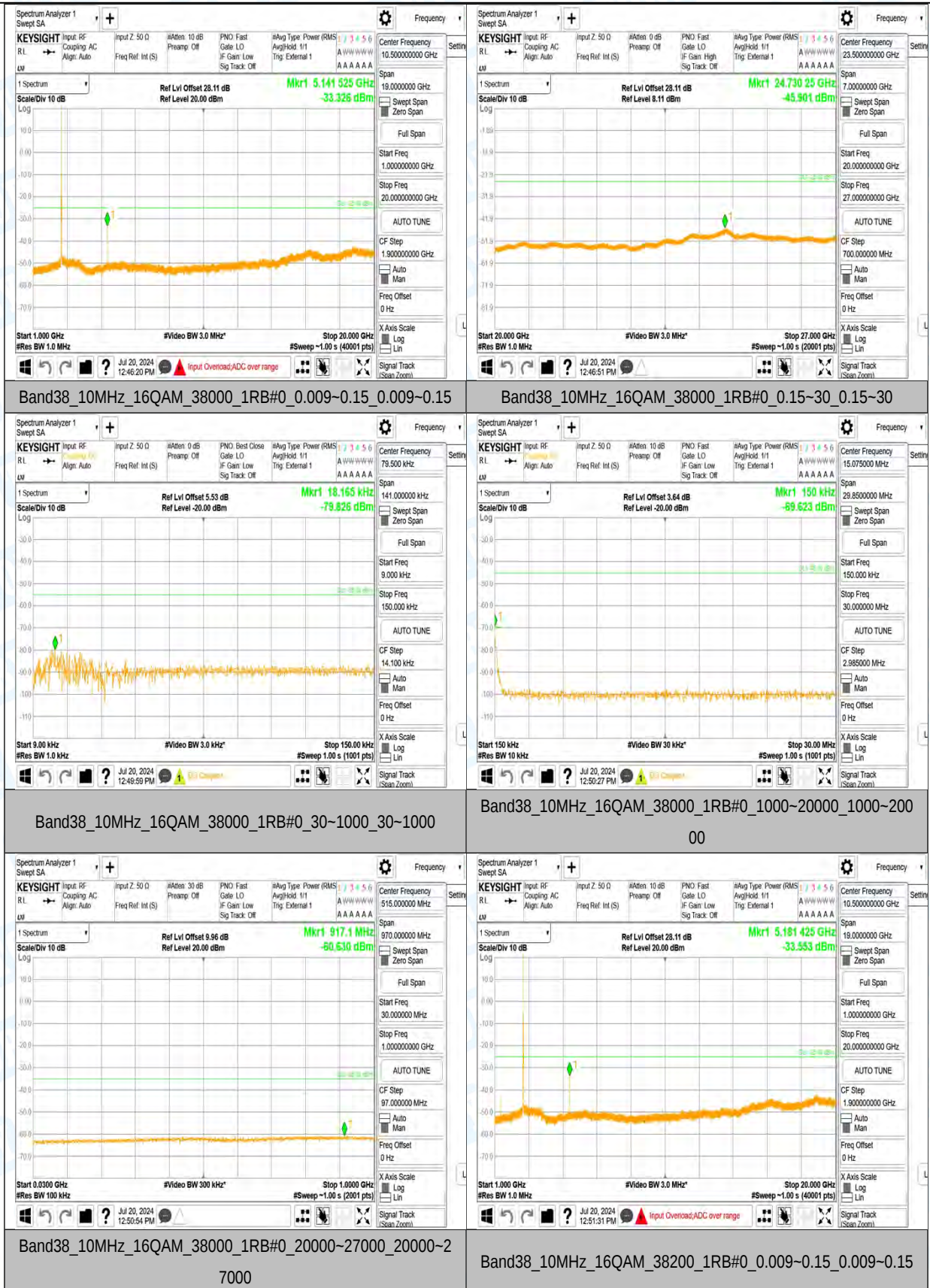
Band38\_10MHz\_16QAM\_37800\_1RB#0\_30-1000\_30-1000



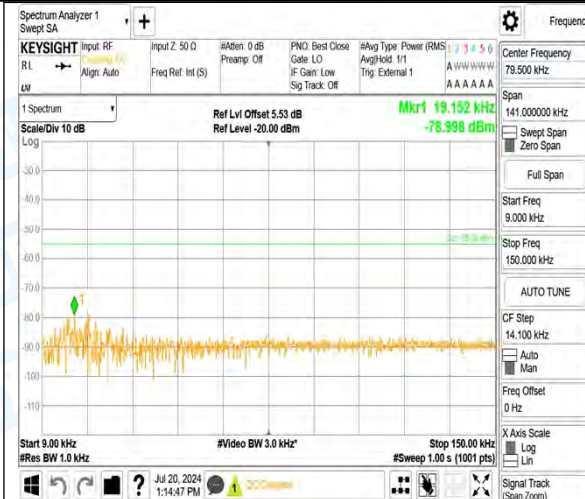
Band38\_10MHz\_16QAM\_37800\_1RB#0\_1000-20000\_1000-20000



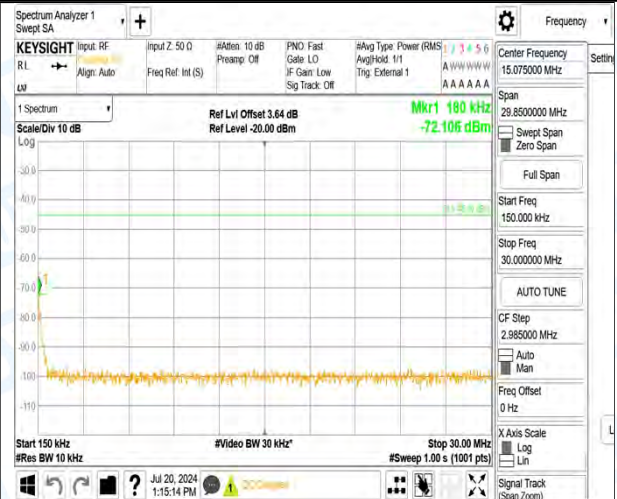
Band38\_10MHz\_16QAM\_37800\_1RB#0\_20000-27000\_20000-27000



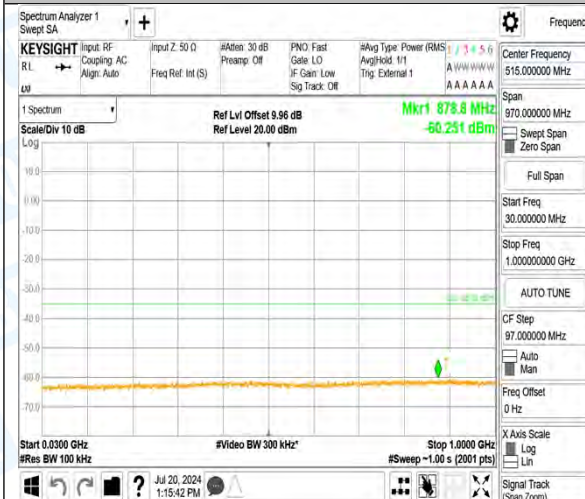




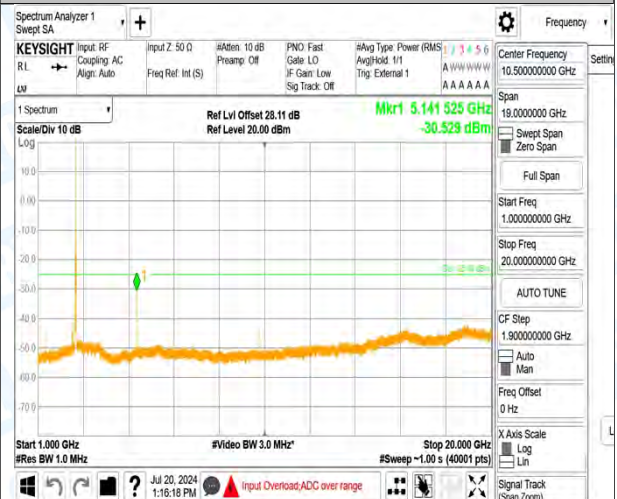
Band38\_15MHz\_QPSK\_37825\_1RB#0\_30~1000\_30~1000



Band38\_15MHz\_QPSK\_37825\_1RB#0\_1000~20000\_1000~2000  
0



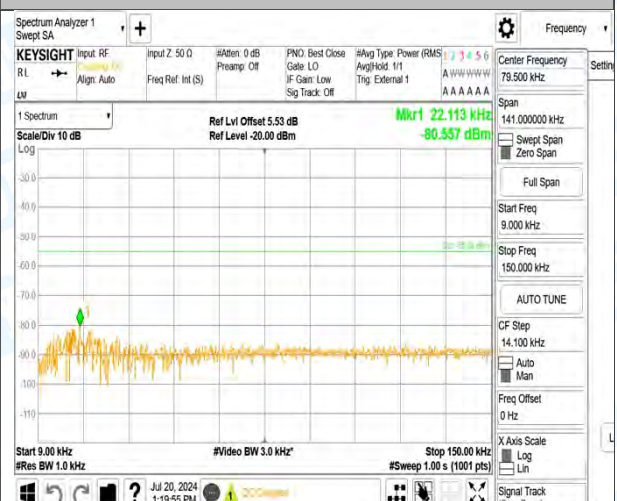
Band38\_15MHz\_QPSK\_37825\_1RB#0\_20000~27000\_20000~27  
000



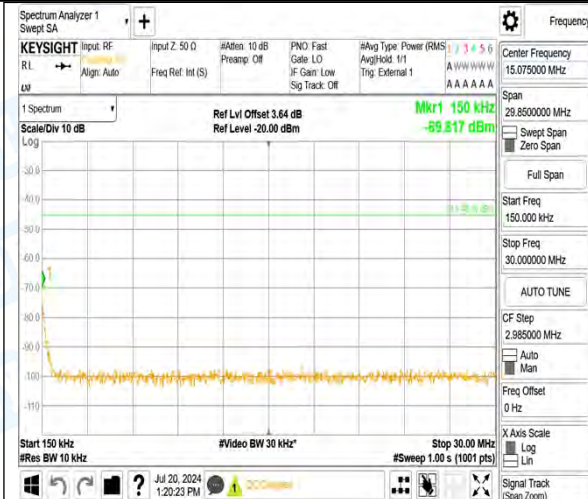
Band38\_15MHz\_QPSK\_38000\_1RB#0\_0.009~0.15\_0.009~0.15



Band38\_15MHz\_QPSK\_38000\_1RB#0\_0.15~30\_0.15~30

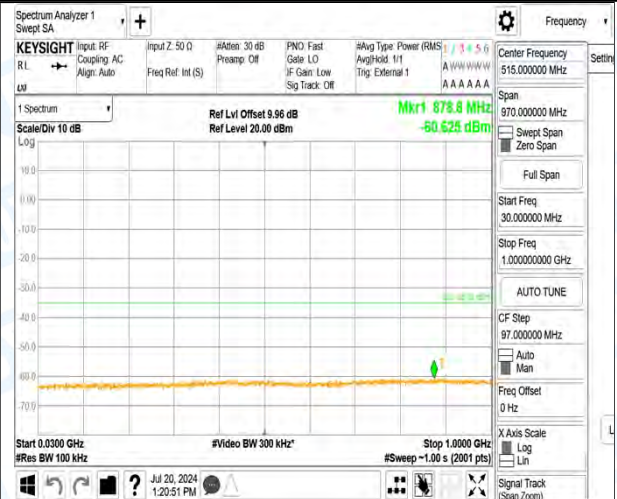


Band38\_15MHz\_QPSK\_38000\_1RB#0\_30~1000\_30~1000



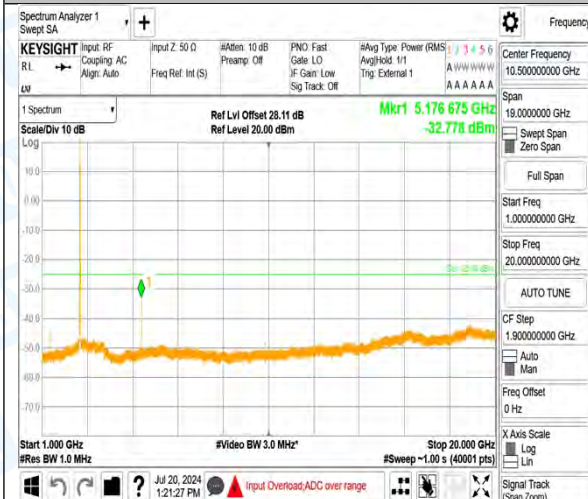
Band38\_15MHz\_QPSK\_38000\_1RB#0\_1000-20000\_1000-2000

0



Band38\_15MHz\_QPSK\_38000\_1RB#0\_20000-27000\_20000-27

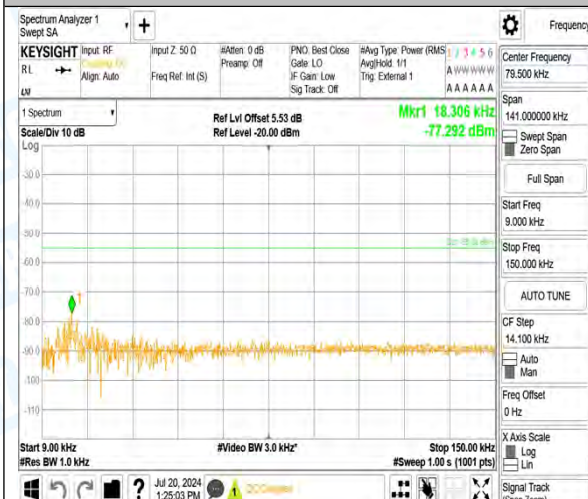
000



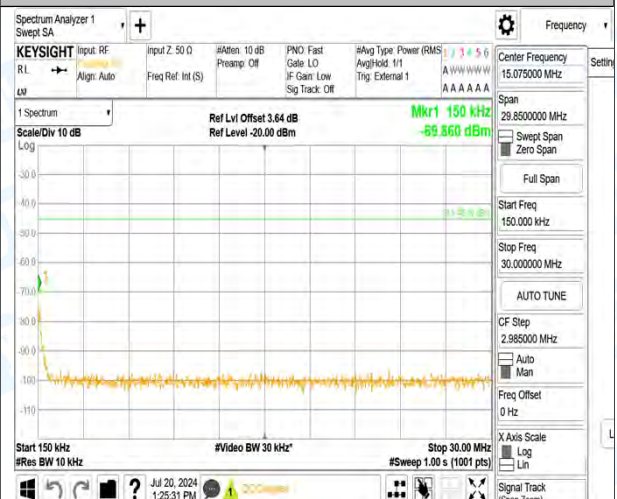
Band38\_15MHz\_QPSK\_38175\_1RB#0\_0.009-0.15\_0.009-0.15



Band38\_15MHz\_QPSK\_38175\_1RB#0\_0.15-30\_0.15-30

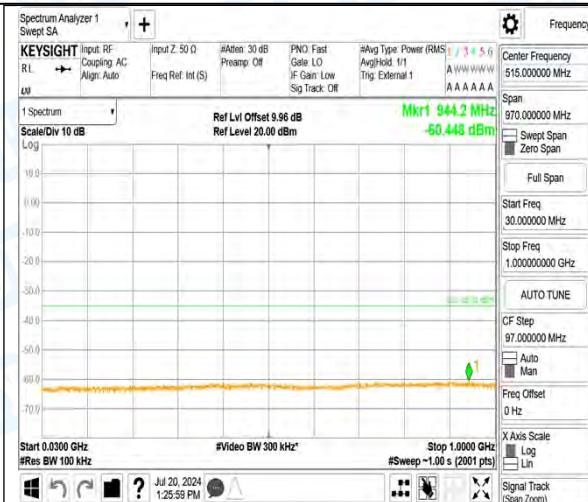


Band38\_15MHz\_QPSK\_38175\_1RB#0\_30-1000\_30-1000

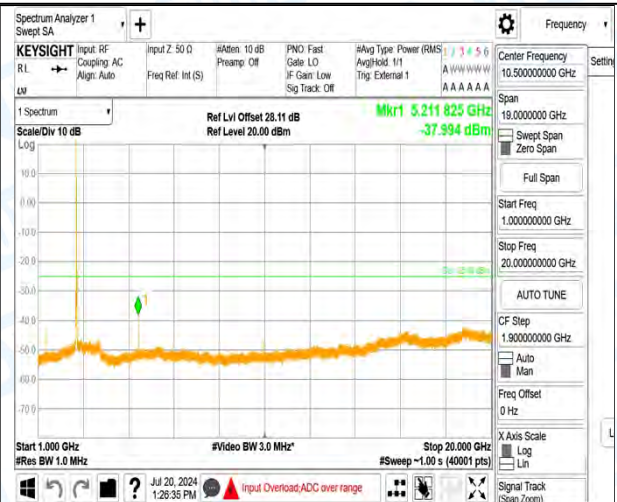


Band38\_15MHz\_QPSK\_38175\_1RB#0\_1000-20000\_1000-2000

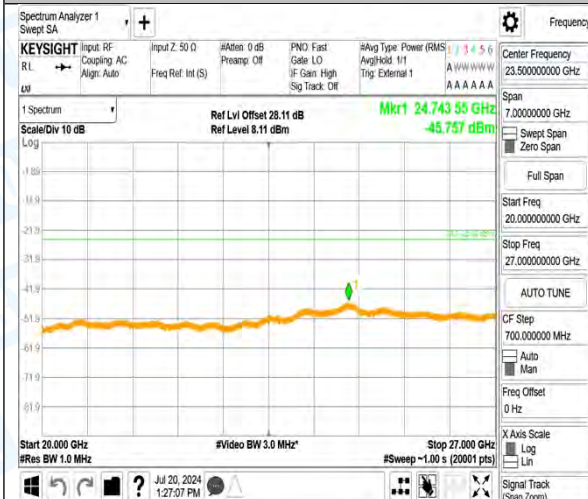
0



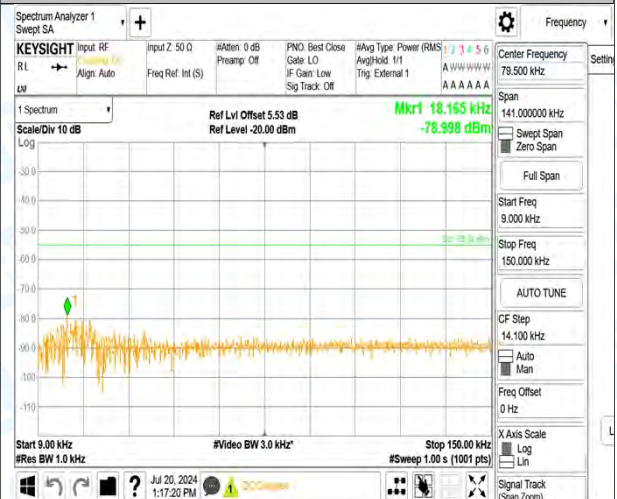
Band38\_15MHz\_QPSK\_38175\_1RB#0\_20000-27000\_20000-27000



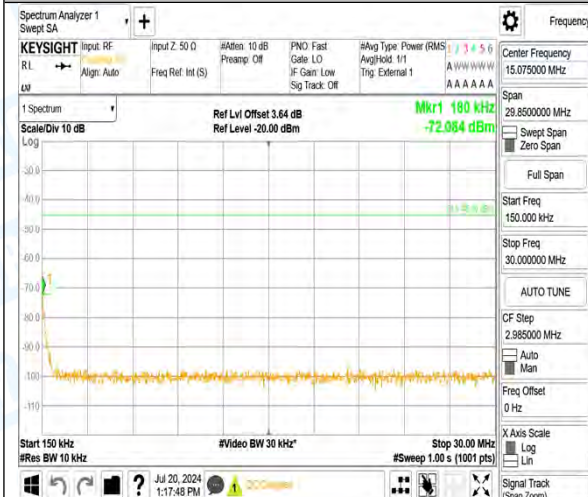
Band38\_15MHz\_16QAM\_37825\_1RB#0\_0.009-0.15\_0.009-0.15



Band38\_15MHz\_16QAM\_37825\_1RB#0\_0.15-30\_0.15-30



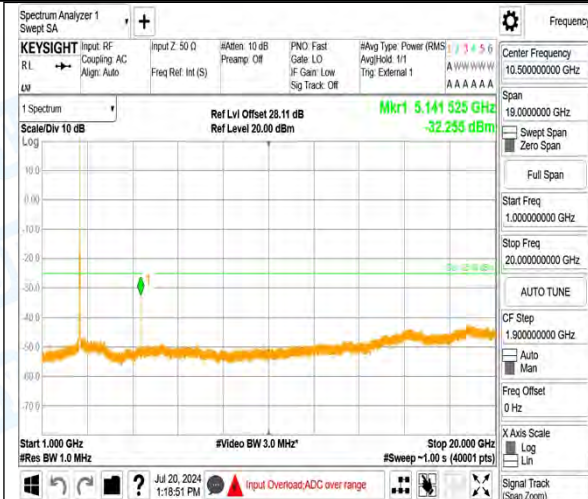
Band38\_15MHz\_16QAM\_37825\_1RB#0\_30-1000\_30-1000



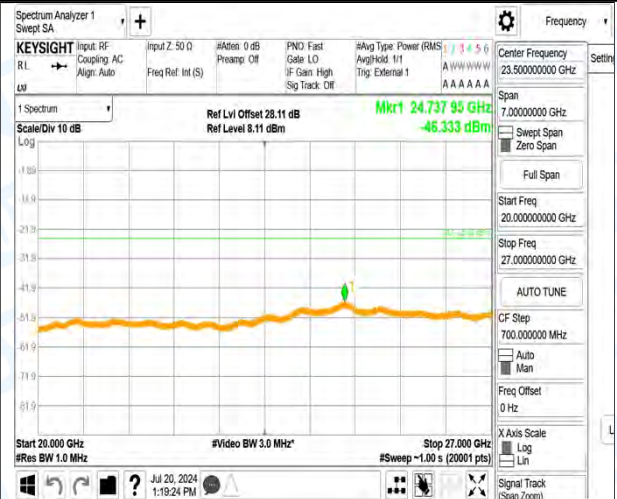
Band38\_15MHz\_16QAM\_37825\_1RB#0\_1000-20000\_1000-20000



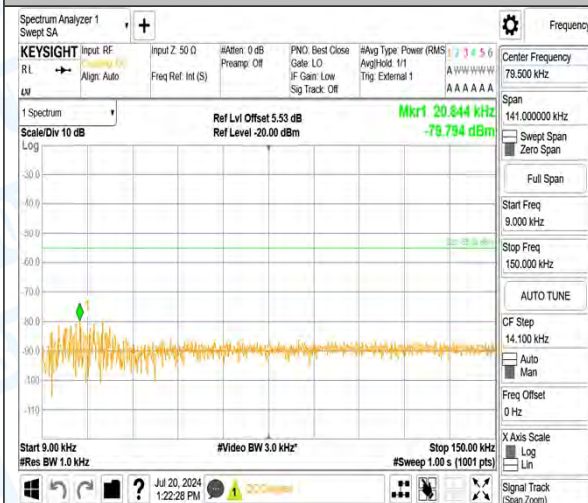
Band38\_15MHz\_16QAM\_37825\_1RB#0\_20000-27000\_20000-27000



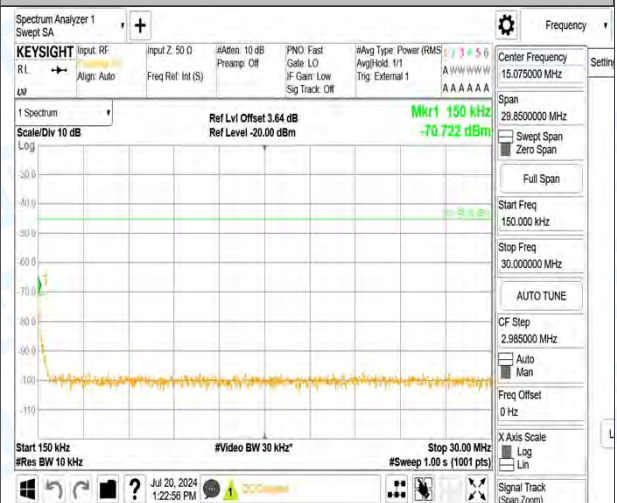
Band38\_15MHz\_16QAM\_38000\_1RB#0\_0.009-0.15\_0.009-0.15



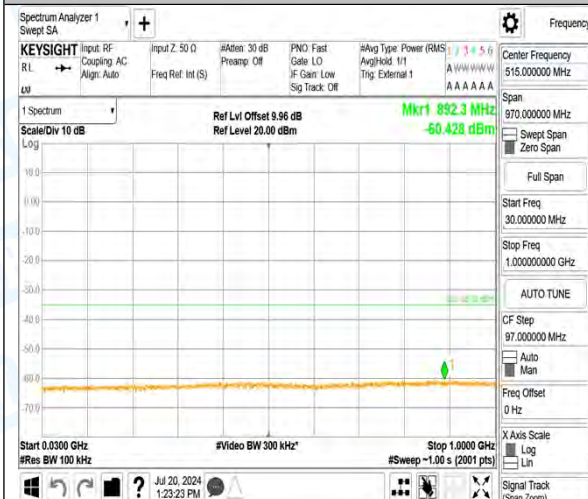
Band38\_15MHz\_16QAM\_38000\_1RB#0\_0.15-30\_0.15-30



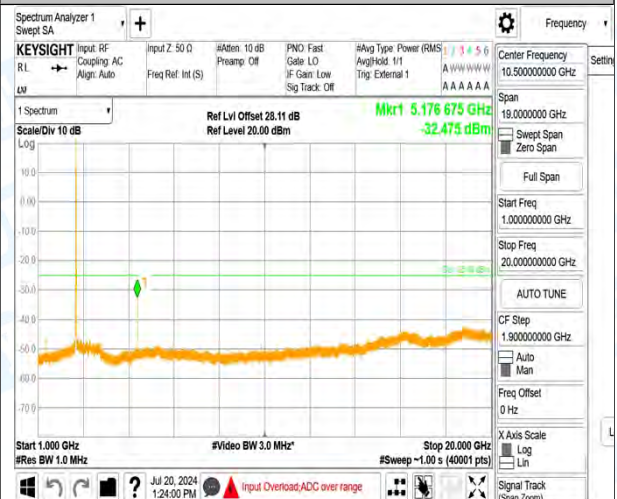
Band38\_15MHz\_16QAM\_38000\_1RB#0\_30-1000\_30-1000



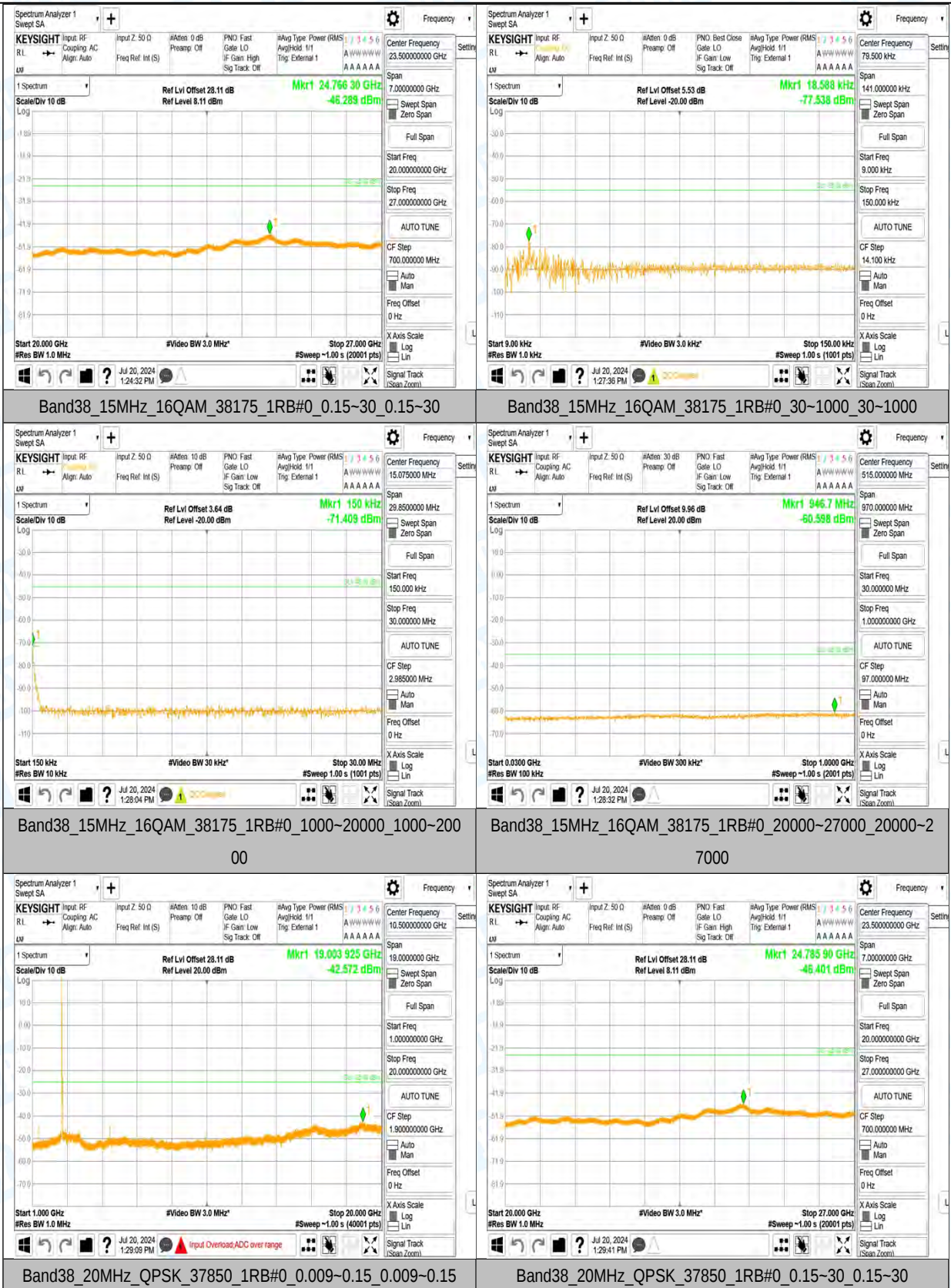
Band38\_15MHz\_16QAM\_38000\_1RB#0\_1000-20000\_1000-20000

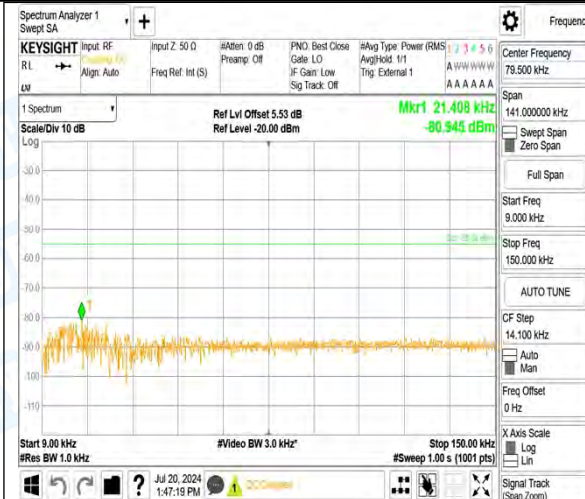


Band38\_15MHz\_16QAM\_38000\_1RB#0\_20000-27000\_20000-27000

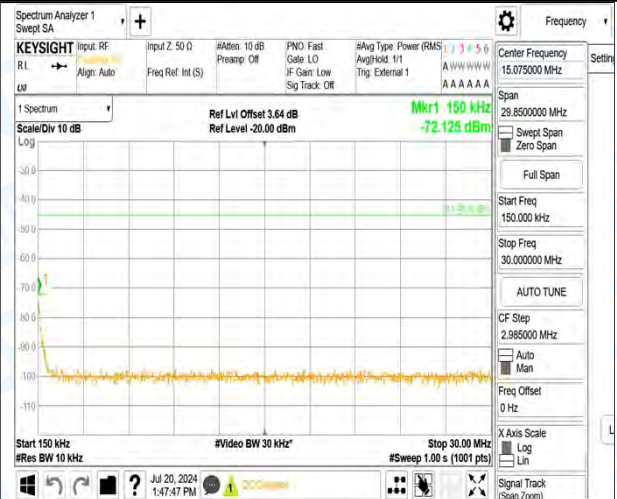


Band38\_15MHz\_16QAM\_38175\_1RB#0\_0.009-0.15\_0.009-0.15



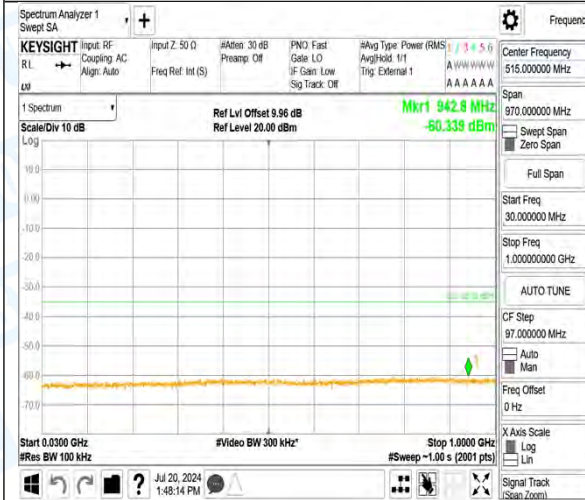


Band38\_20MHz\_QPSK\_37850\_1RB#0\_30~1000\_30~1000



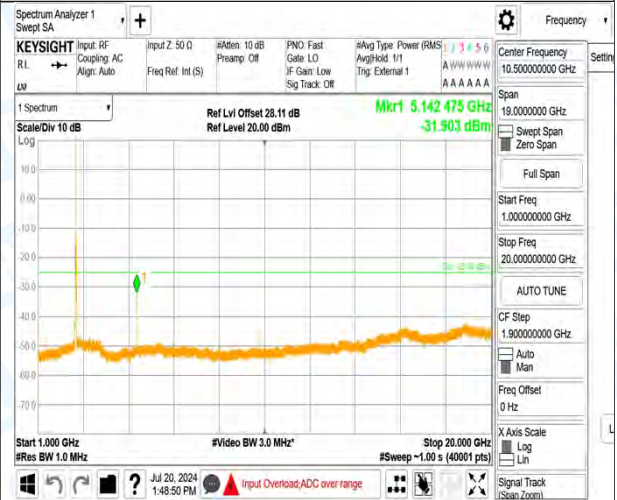
Band38\_20MHz\_QPSK\_37850\_1RB#0\_1000~20000\_1000~2000

0



Band38\_20MHz\_QPSK\_37850\_1RB#0\_20000~27000\_20000~27

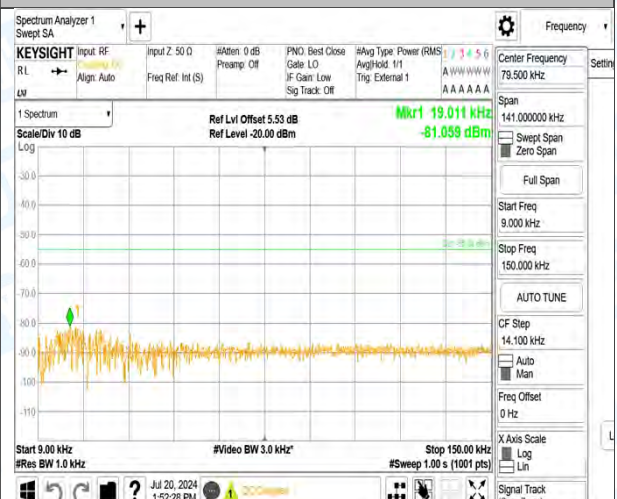
000



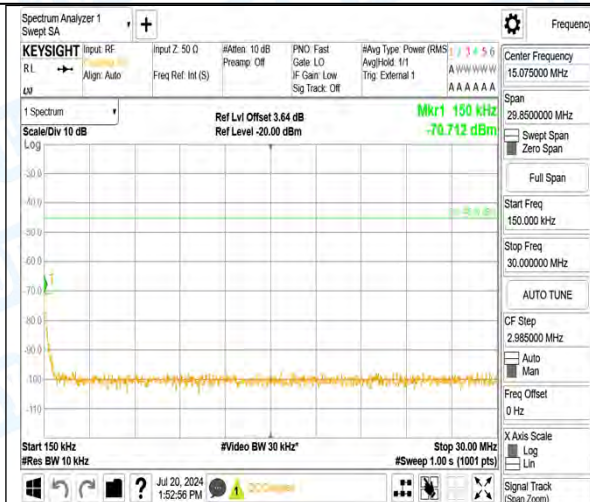
Band38\_20MHz\_QPSK\_38000\_1RB#0\_0.009~0.15\_0.009~0.15



Band38\_20MHz\_QPSK\_38000\_1RB#0\_0.15~30\_0.15~30



Band38\_20MHz\_QPSK\_38000\_1RB#0\_30~1000\_30~1000



Band38\_20MHz\_QPSK\_38000\_1RB#0\_1000-20000\_1000-2000

0

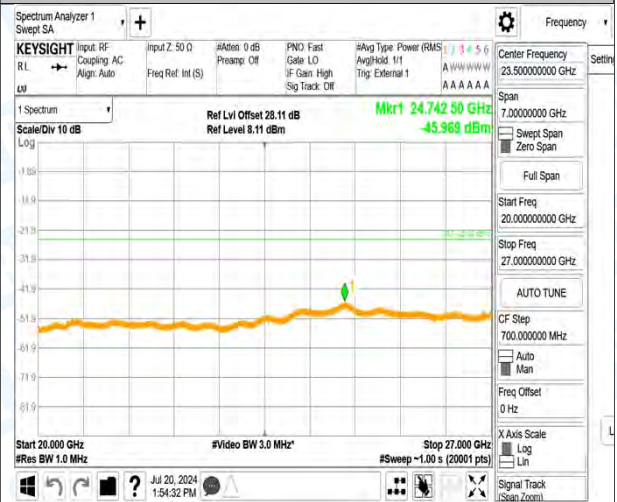


Band38\_20MHz\_QPSK\_38000\_1RB#0\_20000-27000\_20000-27

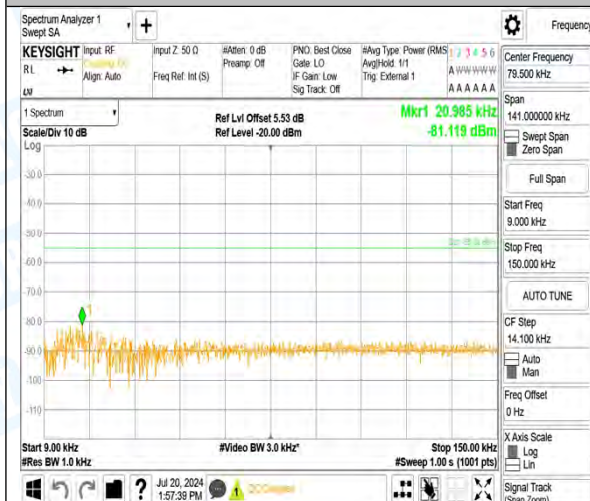
000



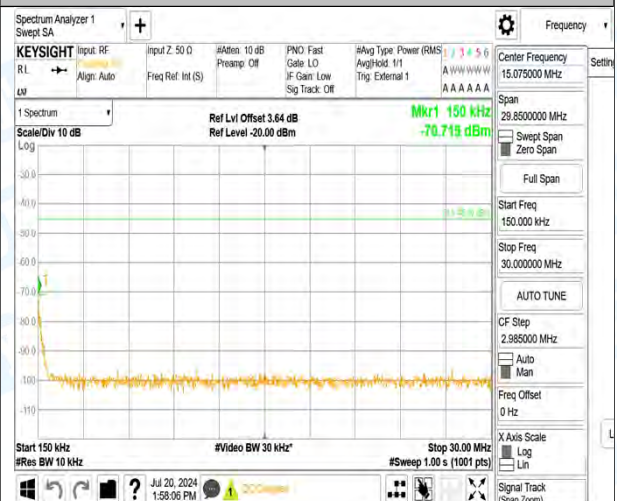
Band38\_20MHz\_QPSK\_38150\_1RB#0\_0.009-0.15\_0.009-0.15



Band38\_20MHz\_QPSK\_38150\_1RB#0\_0.15-30\_0.15-30

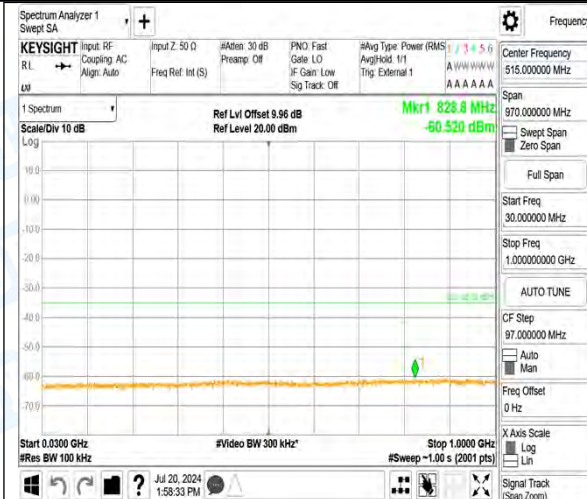


Band38\_20MHz\_QPSK\_38150\_1RB#0\_30-1000\_30-1000

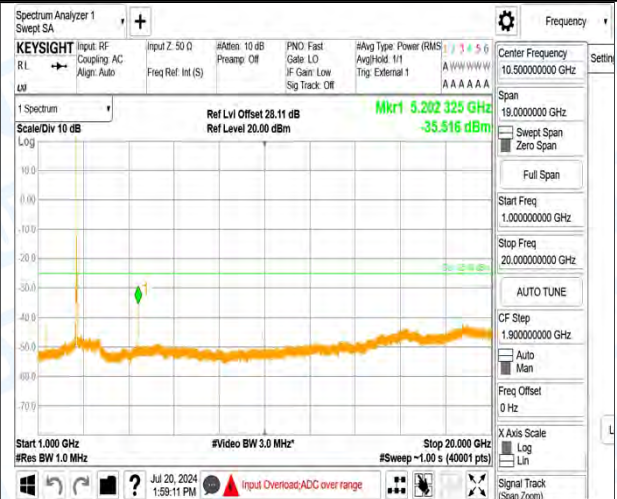


Band38\_20MHz\_QPSK\_38150\_1RB#0\_1000-20000\_1000-2000

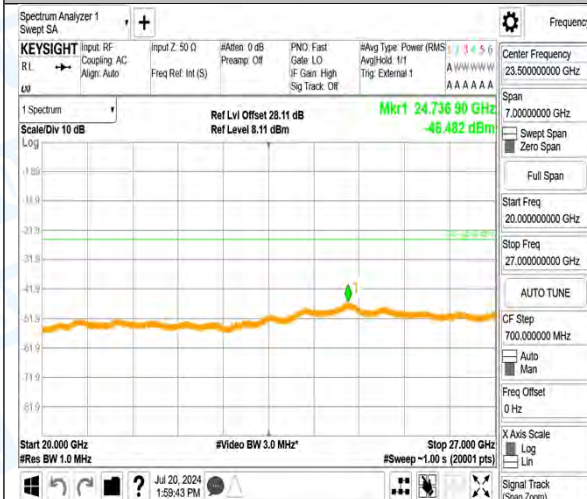
0



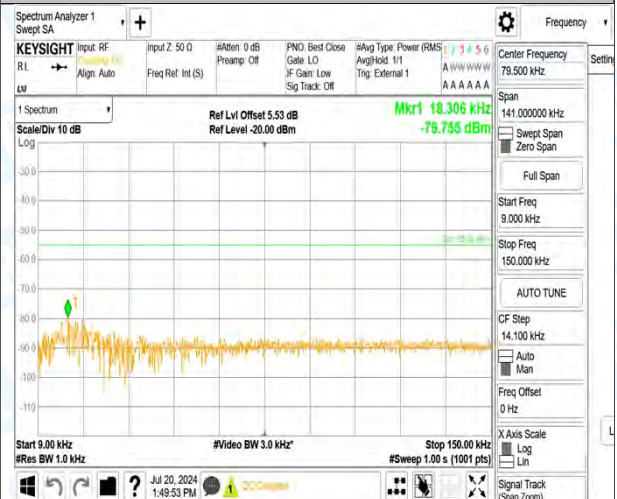
Band38\_20MHz\_QPSK\_38150\_1RB#0\_20000-27000\_20000-27000



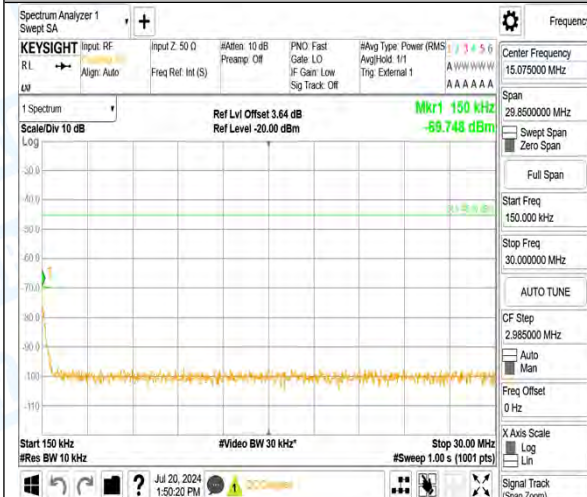
Band38\_20MHz\_16QAM\_37850\_1RB#0\_0.009-0.15\_0.009-0.15



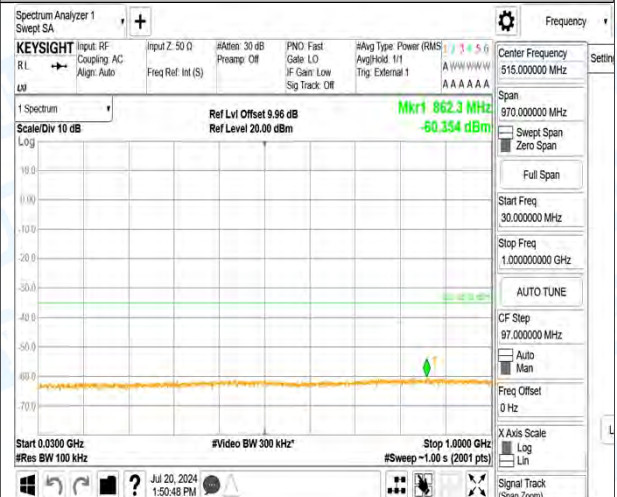
Band38\_20MHz\_16QAM\_37850\_1RB#0\_0.15-30\_0.15-30



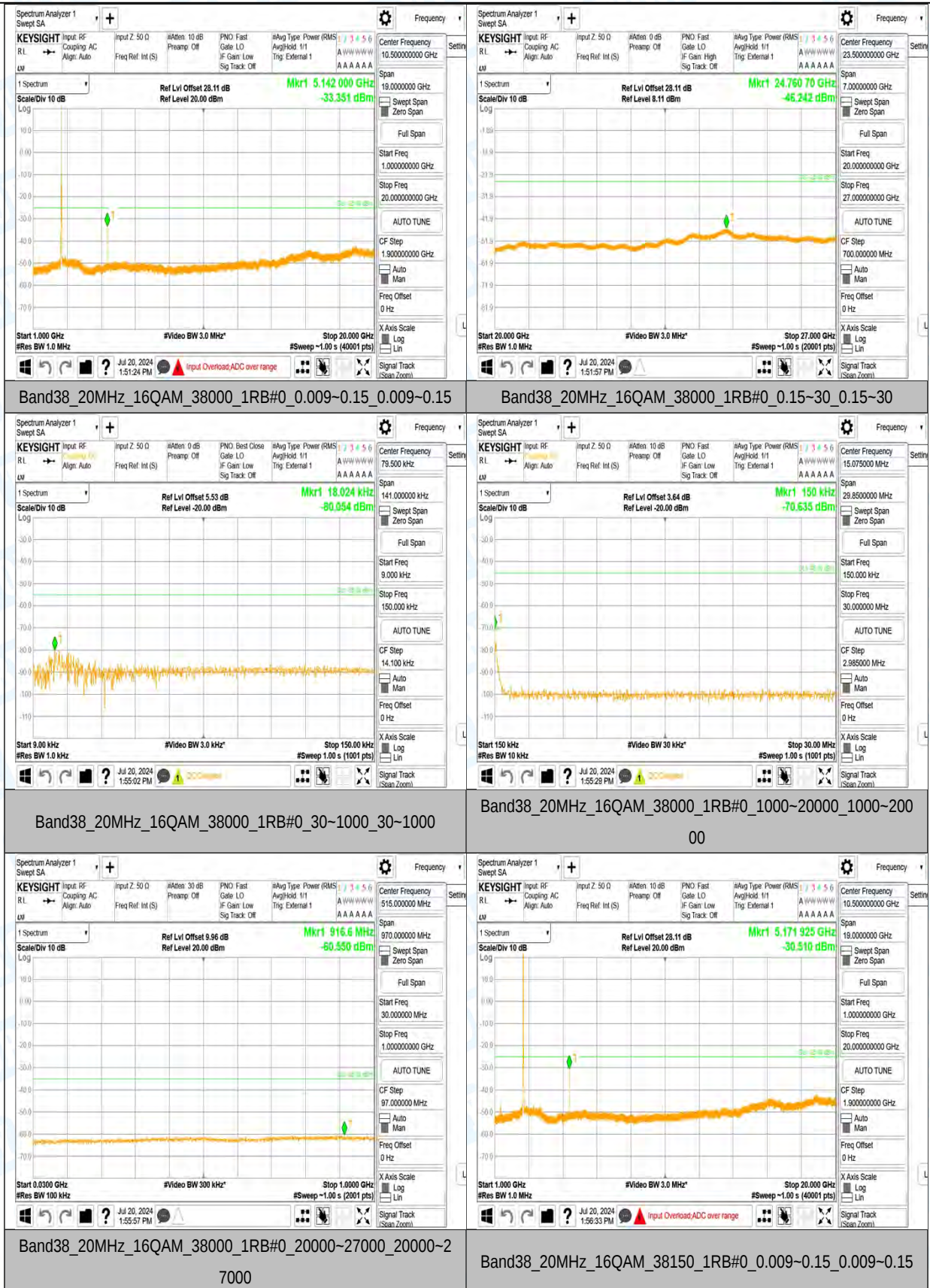
Band38\_20MHz\_16QAM\_37850\_1RB#0\_30-1000\_30-1000



Band38\_20MHz\_16QAM\_37850\_1RB#0\_1000-20000\_1000-20000



Band38\_20MHz\_16QAM\_37850\_1RB#0\_20000-27000\_20000-27000





## 6: Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band38  | 5MHz      | QPSK       | 38000   | 25RB#0       | VN            | NT               | -16.68         | -0.006428       | ±2.5        | PASS    |
| Band38  | 5MHz      | QPSK       | 38000   | 25RB#0       | VL            | NT               | -13.23         | -0.005098       | ±2.5        | PASS    |
| Band38  | 5MHz      | QPSK       | 38000   | 25RB#0       | VH            | NT               | 1.54           | 0.000593        | ±2.5        | PASS    |
| Band38  | 5MHz      | 16QAM      | 38000   | 25RB#0       | VN            | NT               | -18.33         | -0.007064       | ±2.5        | PASS    |
| Band38  | 5MHz      | 16QAM      | 38000   | 25RB#0       | VL            | NT               | -11.02         | -0.004247       | ±2.5        | PASS    |
| Band38  | 5MHz      | 16QAM      | 38000   | 25RB#0       | VH            | NT               | -3.41          | -0.001314       | ±2.5        | PASS    |
| Band38  | 10MHz     | QPSK       | 38000   | 50RB#0       | VN            | NT               | -9.62          | -0.003707       | ±2.5        | PASS    |
| Band38  | 10MHz     | QPSK       | 38000   | 50RB#0       | VL            | NT               | -14.11         | -0.005437       | ±2.5        | PASS    |
| Band38  | 10MHz     | QPSK       | 38000   | 50RB#0       | VH            | NT               | -10.56         | -0.004069       | ±2.5        | PASS    |
| Band38  | 10MHz     | 16QAM      | 38000   | 50RB#0       | VN            | NT               | -7.31          | -0.002817       | ±2.5        | PASS    |
| Band38  | 10MHz     | 16QAM      | 38000   | 50RB#0       | VL            | NT               | 4.66           | 0.001796        | ±2.5        | PASS    |
| Band38  | 10MHz     | 16QAM      | 38000   | 50RB#0       | VH            | NT               | -8.48          | -0.003268       | ±2.5        | PASS    |
| Band38  | 15MHz     | QPSK       | 38000   | 75RB#0       | VN            | NT               | -23.53         | -0.009067       | ±2.5        | PASS    |
| Band38  | 15MHz     | QPSK       | 38000   | 75RB#0       | VL            | NT               | -16.81         | -0.006478       | ±2.5        | PASS    |
| Band38  | 15MHz     | QPSK       | 38000   | 75RB#0       | VH            | NT               | -14.13         | -0.005445       | ±2.5        | PASS    |
| Band38  | 15MHz     | 16QAM      | 38000   | 75RB#0       | VN            | NT               | 2.64           | 0.001017        | ±2.5        | PASS    |
| Band38  | 15MHz     | 16QAM      | 38000   | 75RB#0       | VL            | NT               | -11.38         | -0.004385       | ±2.5        | PASS    |
| Band38  | 15MHz     | 16QAM      | 38000   | 75RB#0       | VH            | NT               | 8.15           | 0.003141        | ±2.5        | PASS    |
| Band38  | 20MHz     | QPSK       | 38000   | 100RB#0      | VN            | NT               | -22.70         | -0.008748       | ±2.5        | PASS    |
| Band38  | 20MHz     | QPSK       | 38000   | 100RB#0      | VL            | NT               | -7.12          | -0.002744       | ±2.5        | PASS    |
| Band38  | 20MHz     | QPSK       | 38000   | 100RB#0      | VH            | NT               | -12.95         | -0.004990       | ±2.5        | PASS    |
| Band38  | 20MHz     | 16QAM      | 38000   | 100RB#0      | VN            | NT               | -8.06          | -0.003106       | ±2.5        | PASS    |
| Band38  | 20MHz     | 16QAM      | 38000   | 100RB#0      | VL            | NT               | 5.31           | 0.002046        | ±2.5        | PASS    |
| Band38  | 20MHz     | 16QAM      | 38000   | 100RB#0      | VH            | NT               | 4.81           | 0.001854        | ±2.5        | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band38      | 5MHz      | QPSK       | 38000   | 25RB#0       | NV            | 0                | -16.11         | -0.006208       | ±2.5        | PASS    |
| Band38      | 5MHz      | QPSK       | 38000   | 25RB#0       | NV            | 10               | -18.66         | -0.007191       | ±2.5        | PASS    |
| Band38      | 5MHz      | QPSK       | 38000   | 25RB#0       | NV            | 20               | -1.96          | -0.000755       | ±2.5        | PASS    |
| Band38      | 5MHz      | QPSK       | 38000   | 25RB#0       | NV            | 30               | -9.84          | -0.003792       | ±2.5        | PASS    |
| Band38      | 5MHz      | QPSK       | 38000   | 25RB#0       | NV            | 45               | 7.82           | 0.003013        | ±2.5        | PASS    |
| Band38      | 5MHz      | 16QAM      | 38000   | 25RB#0       | NV            | 0                | -11.68         | -0.004501       | ±2.5        | PASS    |
| Band38      | 5MHz      | 16QAM      | 38000   | 25RB#0       | NV            | 10               | -8.10          | -0.003121       | ±2.5        | PASS    |
| Band38      | 5MHz      | 16QAM      | 38000   | 25RB#0       | NV            | 20               | -12.73         | -0.004906       | ±2.5        | PASS    |
| Band38      | 5MHz      | 16QAM      | 38000   | 25RB#0       | NV            | 30               | -14.19         | -0.005468       | ±2.5        | PASS    |
| Band38      | 5MHz      | 16QAM      | 38000   | 25RB#0       | NV            | 45               | -24.27         | -0.009353       | ±2.5        | PASS    |
| Band38      | 10MHz     | QPSK       | 38000   | 50RB#0       | NV            | 0                | 2.88           | 0.001110        | ±2.5        | PASS    |
| Band38      | 10MHz     | QPSK       | 38000   | 50RB#0       | NV            | 10               | -8.86          | -0.003414       | ±2.5        | PASS    |
| Band38      | 10MHz     | QPSK       | 38000   | 50RB#0       | NV            | 20               | -10.32         | -0.003977       | ±2.5        | PASS    |
| Band38      | 10MHz     | QPSK       | 38000   | 50RB#0       | NV            | 30               | -9.67          | -0.003726       | ±2.5        | PASS    |
| Band38      | 10MHz     | QPSK       | 38000   | 50RB#0       | NV            | 45               | -16.19         | -0.006239       | ±2.5        | PASS    |
| Band38      | 10MHz     | 16QAM      | 38000   | 50RB#0       | NV            | 0                | 8.54           | 0.003291        | ±2.5        | PASS    |
| Band38      | 10MHz     | 16QAM      | 38000   | 50RB#0       | NV            | 10               | -10.59         | -0.004081       | ±2.5        | PASS    |
| Band38      | 10MHz     | 16QAM      | 38000   | 50RB#0       | NV            | 20               | 3.57           | 0.001376        | ±2.5        | PASS    |
| Band38      | 10MHz     | 16QAM      | 38000   | 50RB#0       | NV            | 30               | 4.81           | 0.001854        | ±2.5        | PASS    |
| Band38      | 10MHz     | 16QAM      | 38000   | 50RB#0       | NV            | 45               | -12.80         | -0.004933       | ±2.5        | PASS    |
| Band38      | 15MHz     | QPSK       | 38000   | 75RB#0       | NV            | 0                | -10.45         | -0.004027       | ±2.5        | PASS    |
| Band38      | 15MHz     | QPSK       | 38000   | 75RB#0       | NV            | 10               | -10.72         | -0.004131       | ±2.5        | PASS    |
| Band38      | 15MHz     | QPSK       | 38000   | 75RB#0       | NV            | 20               | -11.33         | -0.004366       | ±2.5        | PASS    |
| Band38      | 15MHz     | QPSK       | 38000   | 75RB#0       | NV            | 30               | -13.64         | -0.005256       | ±2.5        | PASS    |
| Band38      | 15MHz     | QPSK       | 38000   | 75RB#0       | NV            | 45               | 6.01           | 0.002316        | ±2.5        | PASS    |
| Band38      | 15MHz     | 16QAM      | 38000   | 75RB#0       | NV            | 0                | -14.23         | -0.005484       | ±2.5        | PASS    |
| Band38      | 15MHz     | 16QAM      | 38000   | 75RB#0       | NV            | 10               | -16.83         | -0.006486       | ±2.5        | PASS    |
| Band38      | 15MHz     | 16QAM      | 38000   | 75RB#0       | NV            | 20               | 3.07           | 0.001183        | ±2.5        | PASS    |
| Band38      | 15MHz     | 16QAM      | 38000   | 75RB#0       | NV            | 30               | -3.10          | -0.001195       | ±2.5        | PASS    |
| Band38      | 15MHz     | 16QAM      | 38000   | 75RB#0       | NV            | 45               | -5.95          | -0.002293       | ±2.5        | PASS    |
| Band38      | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | 0                | 2.49           | 0.000960        | ±2.5        | PASS    |
| Band38      | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | 10               | -10.46         | -0.004031       | ±2.5        | PASS    |
| Band38      | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | 20               | 11.13          | 0.004289        | ±2.5        | PASS    |
| Band38      | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | 30               | -10.59         | -0.004081       | ±2.5        | PASS    |
| Band38      | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | 45               | -11.99         | -0.004620       | ±2.5        | PASS    |
| Band38      | 20MHz     | 16QAM      | 38000   | 100RB#0      | NV            | 0                | -13.53         | -0.005214       | ±2.5        | PASS    |
| Band38      | 20MHz     | 16QAM      | 38000   | 100RB#0      | NV            | 10               | -12.02         | -0.004632       | ±2.5        | PASS    |
| Band38      | 20MHz     | 16QAM      | 38000   | 100RB#0      | NV            | 20               | 5.00           | 0.001927        | ±2.5        | PASS    |
| Band38      | 20MHz     | 16QAM      | 38000   | 100RB#0      | NV            | 30               | 7.94           | 0.003060        | ±2.5        | PASS    |
| Band38      | 20MHz     | 16QAM      | 38000   | 100RB#0      | NV            | 45               | -5.67          | -0.002185       | ±2.5        | PASS    |

-----END OF THE REPORT-----