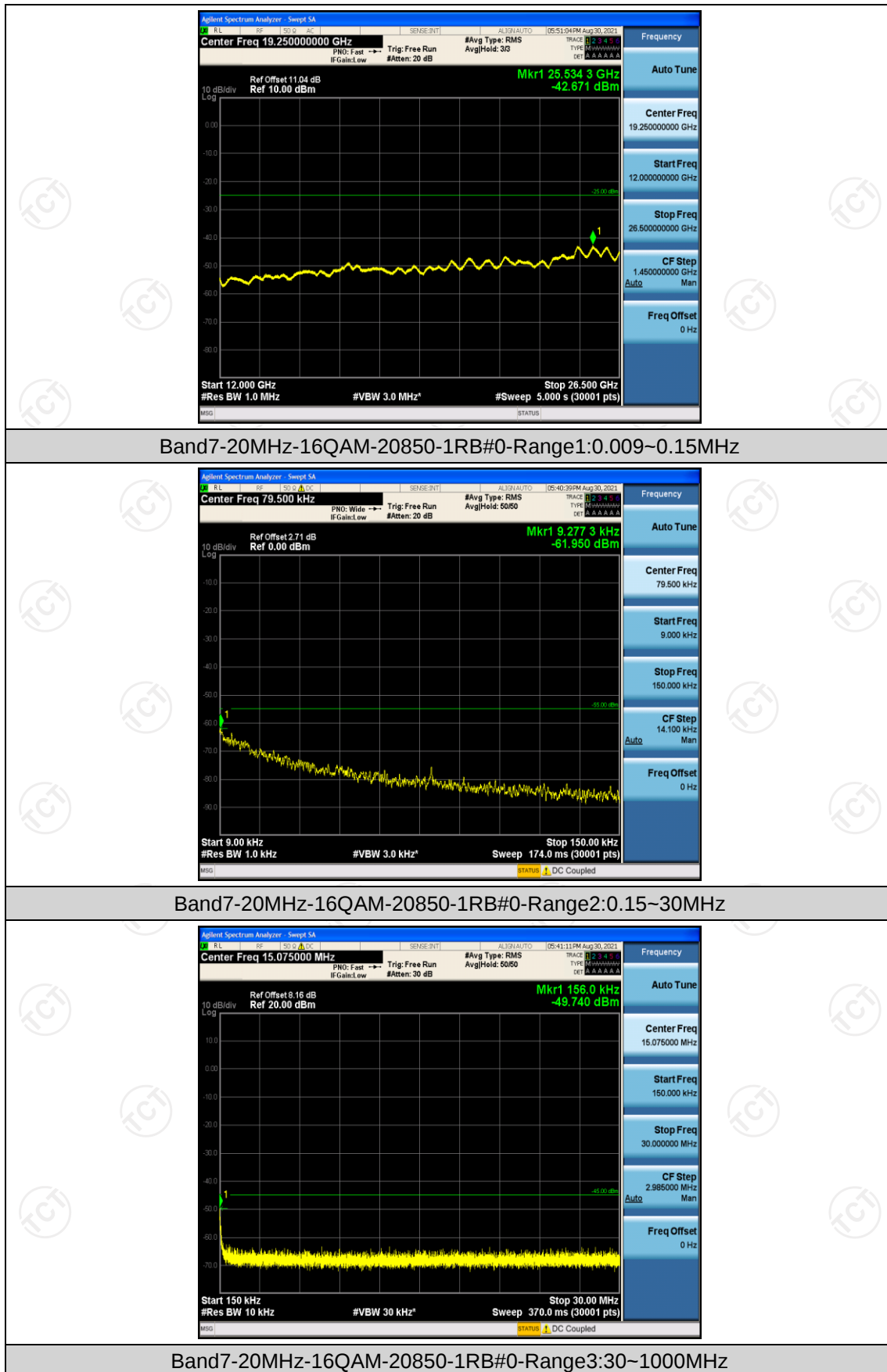
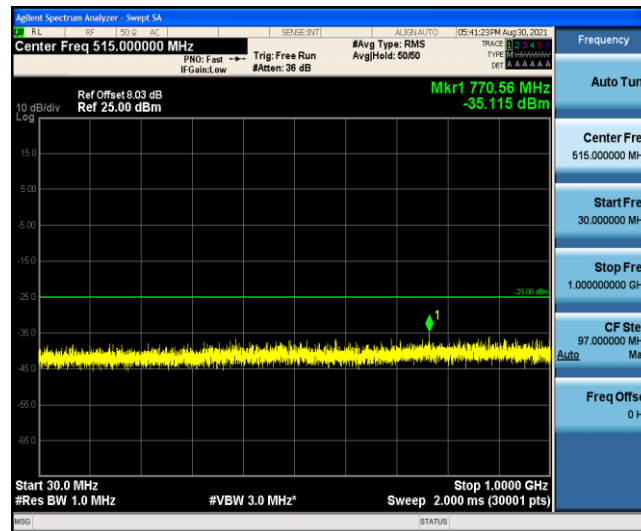
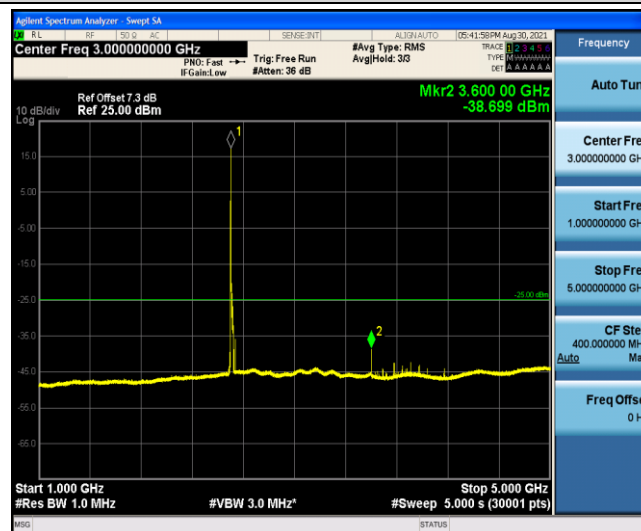


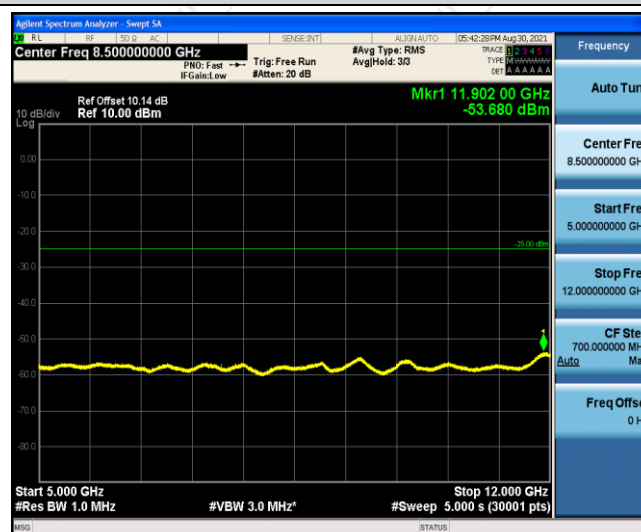




Band7-20MHz-16QAM-20850-1RB#0-Range4:1000~5000MHz



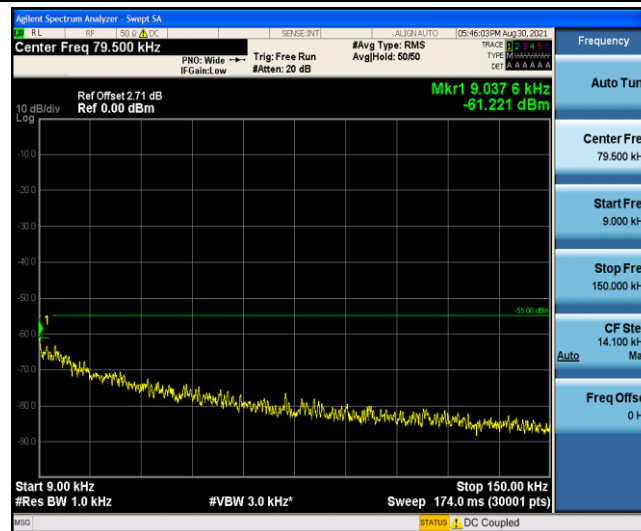
Band7-20MHz-16QAM-20850-1RB#0-Range5:5000~12000MHz



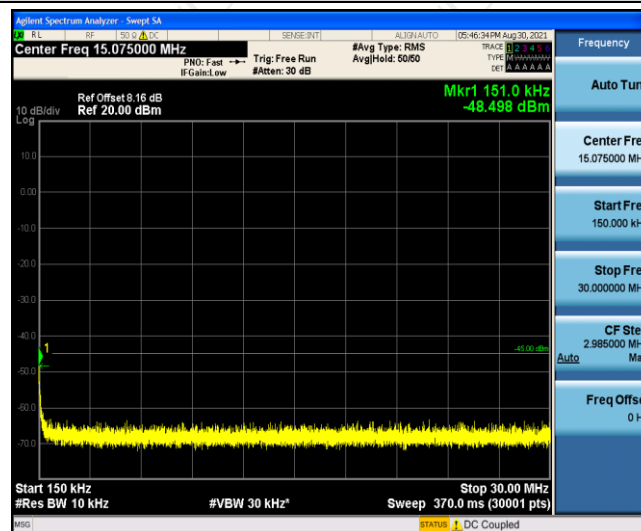
Band7-20MHz-16QAM-20850-1RB#0-Range6:12000~26500MHz



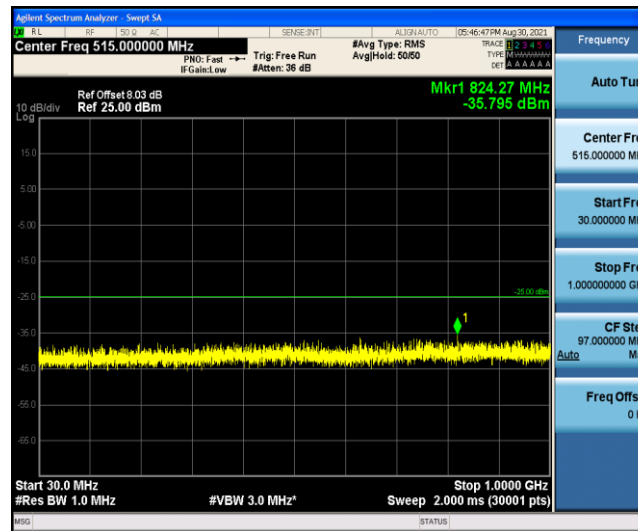
Band7-20MHz-16QAM-21100-1RB#0-Range1:0.009~0.15MHz



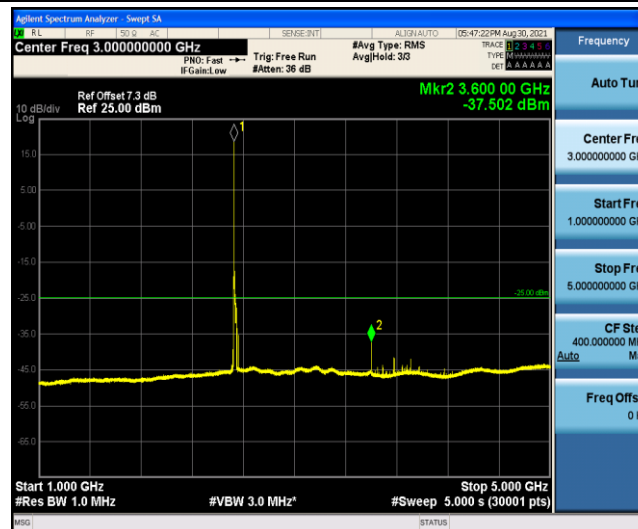
Band7-20MHz-16QAM-21100-1RB#0-Range2:0.15~30MHz



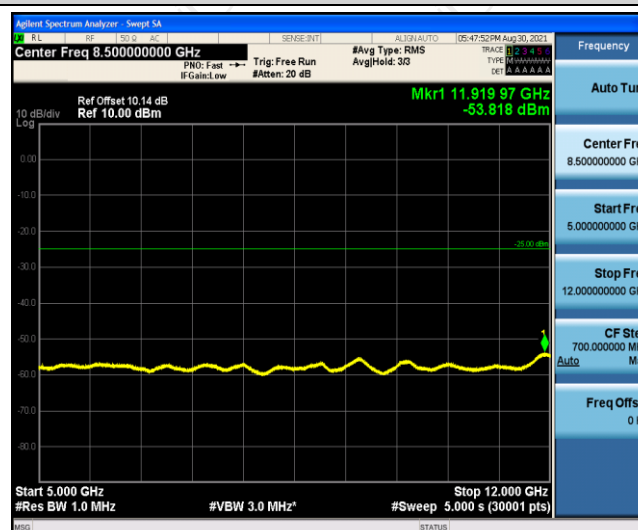
Band7-20MHz-16QAM-21100-1RB#0-Range3:30~1000MHz



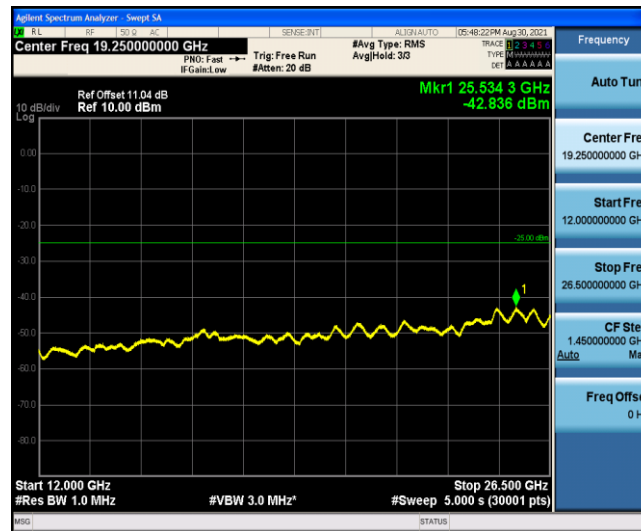
Band7-20MHz-16QAM-21100-1RB#0-Range4:1000~5000MHz



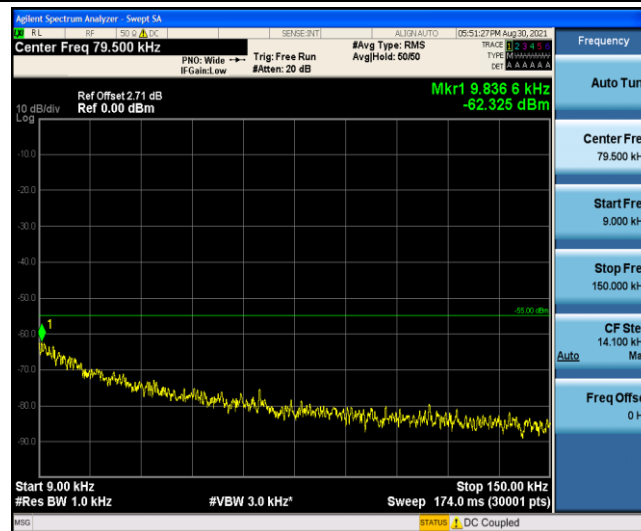
Band7-20MHz-16QAM-21100-1RB#0-Range5:5000~12000MHz



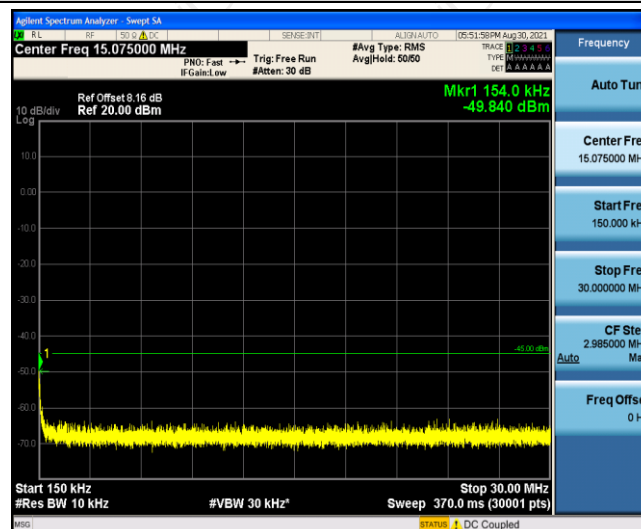
Band7-20MHz-16QAM-21100-1RB#0-Range6:12000~26500MHz



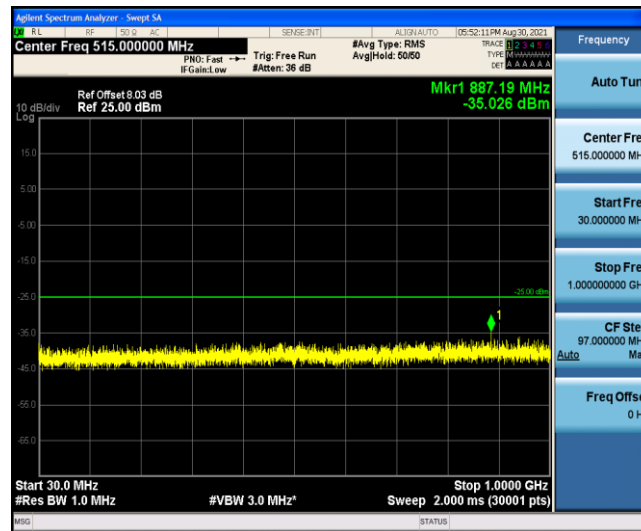
Band7-20MHz-16QAM-21350-1RB#0-Range1:0.009~0.15MHz



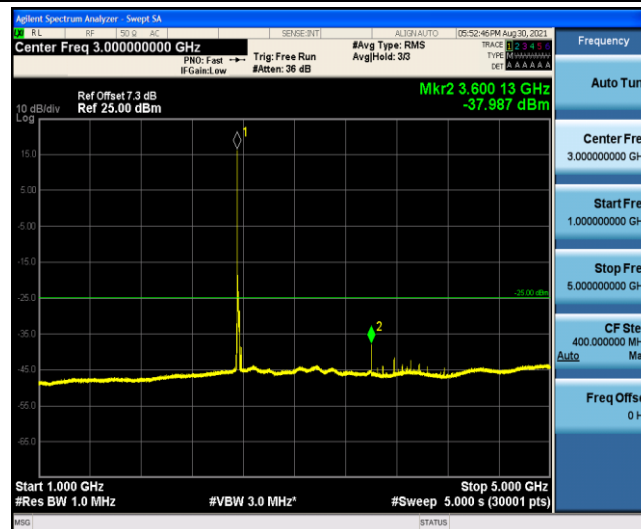
Band7-20MHz-16QAM-21350-1RB#0-Range2:0.15~30MHz



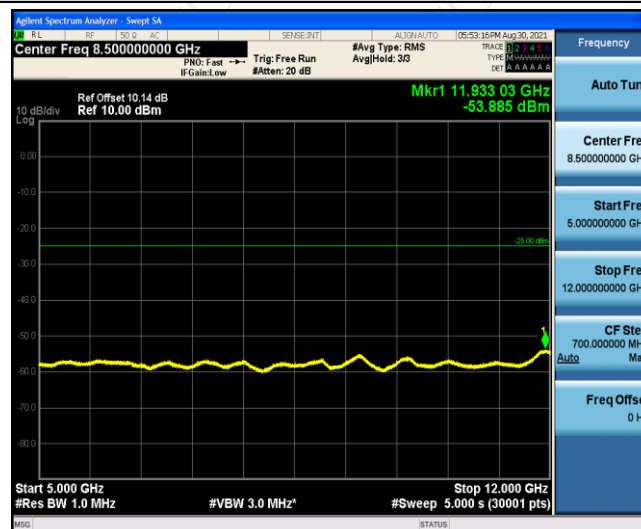
Band7-20MHz-16QAM-21350-1RB#0-Range3:30~1000MHz



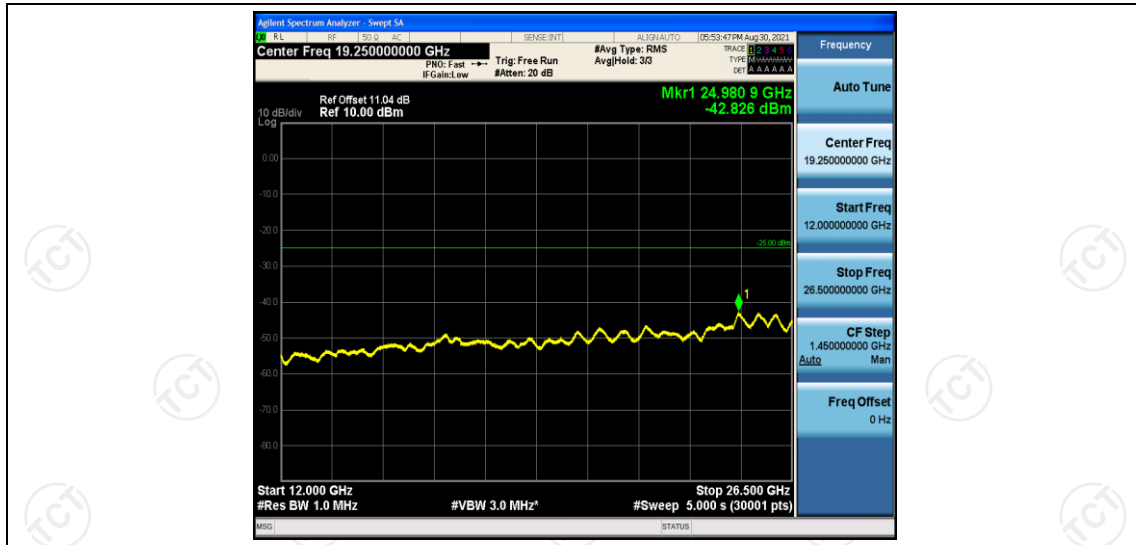
Band7-20MHz-16QAM-21350-1RB#0-Range4:1000~5000MHz



Band7-20MHz-16QAM-21350-1RB#0-Range5:5000~12000MHz



Band7-20MHz-16QAM-21350-1RB#0-Range6:12000~26500MHz



## Appendix F: Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band7   | 5MHz      | QPSK       | 20775   | 25RB#0       | VL            | NT               | 7.65           | 0.003057        | ±2.5        | PASS    |
| Band7   | 5MHz      | QPSK       | 20775   | 25RB#0       | VN            | NT               | -46.62         | -0.018629       | ±2.5        | PASS    |
| Band7   | 5MHz      | QPSK       | 20775   | 25RB#0       | VH            | NT               | 14.43          | 0.005766        | ±2.5        | PASS    |
| Band7   | 5MHz      | QPSK       | 21100   | 25RB#0       | VL            | NT               | -42.09         | -0.016604       | ±2.5        | PASS    |
| Band7   | 5MHz      | QPSK       | 21100   | 25RB#0       | VN            | NT               | -27.29         | -0.010765       | ±2.5        | PASS    |
| Band7   | 5MHz      | QPSK       | 21100   | 25RB#0       | VH            | NT               | 9.30           | 0.003669        | ±2.5        | PASS    |
| Band7   | 5MHz      | QPSK       | 21425   | 25RB#0       | VL            | NT               | 19.20          | 0.007478        | ±2.5        | PASS    |
| Band7   | 5MHz      | QPSK       | 21425   | 25RB#0       | VN            | NT               | 26.42          | 0.010290        | ±2.5        | PASS    |
| Band7   | 5MHz      | QPSK       | 21425   | 25RB#0       | VH            | NT               | 17.04          | 0.006637        | ±2.5        | PASS    |
| Band7   | 5MHz      | 16QAM      | 20775   | 25RB#0       | VL            | NT               | 27.42          | 0.010957        | ±2.5        | PASS    |
| Band7   | 5MHz      | 16QAM      | 20775   | 25RB#0       | VN            | NT               | 17.67          | 0.007061        | ±2.5        | PASS    |
| Band7   | 5MHz      | 16QAM      | 20775   | 25RB#0       | VH            | NT               | 24.95          | 0.009970        | ±2.5        | PASS    |
| Band7   | 5MHz      | 16QAM      | 21100   | 25RB#0       | VL            | NT               | -28.95         | -0.011420       | ±2.5        | PASS    |
| Band7   | 5MHz      | 16QAM      | 21100   | 25RB#0       | VN            | NT               | -17.34         | -0.006840       | ±2.5        | PASS    |
| Band7   | 5MHz      | 16QAM      | 21100   | 25RB#0       | VH            | NT               | -31.64         | -0.012481       | ±2.5        | PASS    |
| Band7   | 5MHz      | 16QAM      | 21425   | 25RB#0       | VL            | NT               | 27.45          | 0.010691        | ±2.5        | PASS    |
| Band7   | 5MHz      | 16QAM      | 21425   | 25RB#0       | VN            | NT               | 21.03          | 0.008191        | ±2.5        | PASS    |
| Band7   | 5MHz      | 16QAM      | 21425   | 25RB#0       | VH            | NT               | 23.10          | 0.008997        | ±2.5        | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band7       | 5MHz      | QPSK       | 20775   | 25RB#0       | NV            | -30              | 31.21          | 0.012472        | ±2.5        | PASS    |
| Band7       | 5MHz      | QPSK       | 20775   | 25RB#0       | NV            | -20              | -10.67         | -0.004264       | ±2.5        | PASS    |
| Band7       | 5MHz      | QPSK       | 20775   | 25RB#0       | NV            | 0                | 17.80          | 0.007113        | ±2.5        | PASS    |
| Band7       | 5MHz      | QPSK       | 20775   | 25RB#0       | NV            | 10               | 30.30          | 0.012108        | ±2.5        | PASS    |
| Band7       | 5MHz      | QPSK       | 20775   | 25RB#0       | NV            | 20               | 50.95          | 0.020360        | ±2.5        | PASS    |
| Band7       | 5MHz      | QPSK       | 21100   | 25RB#0       | NV            | -30              | 6.31           | 0.002489        | ±2.5        | PASS    |
| Band7       | 5MHz      | QPSK       | 21100   | 25RB#0       | NV            | -20              | -7.57          | -0.002986       | ±2.5        | PASS    |
| Band7       | 5MHz      | QPSK       | 21100   | 25RB#0       | NV            | 0                | -8.68          | -0.003424       | ±2.5        | PASS    |
| Band7       | 5MHz      | QPSK       | 21100   | 25RB#0       | NV            | 10               | -15.22         | -0.006004       | ±2.5        | PASS    |

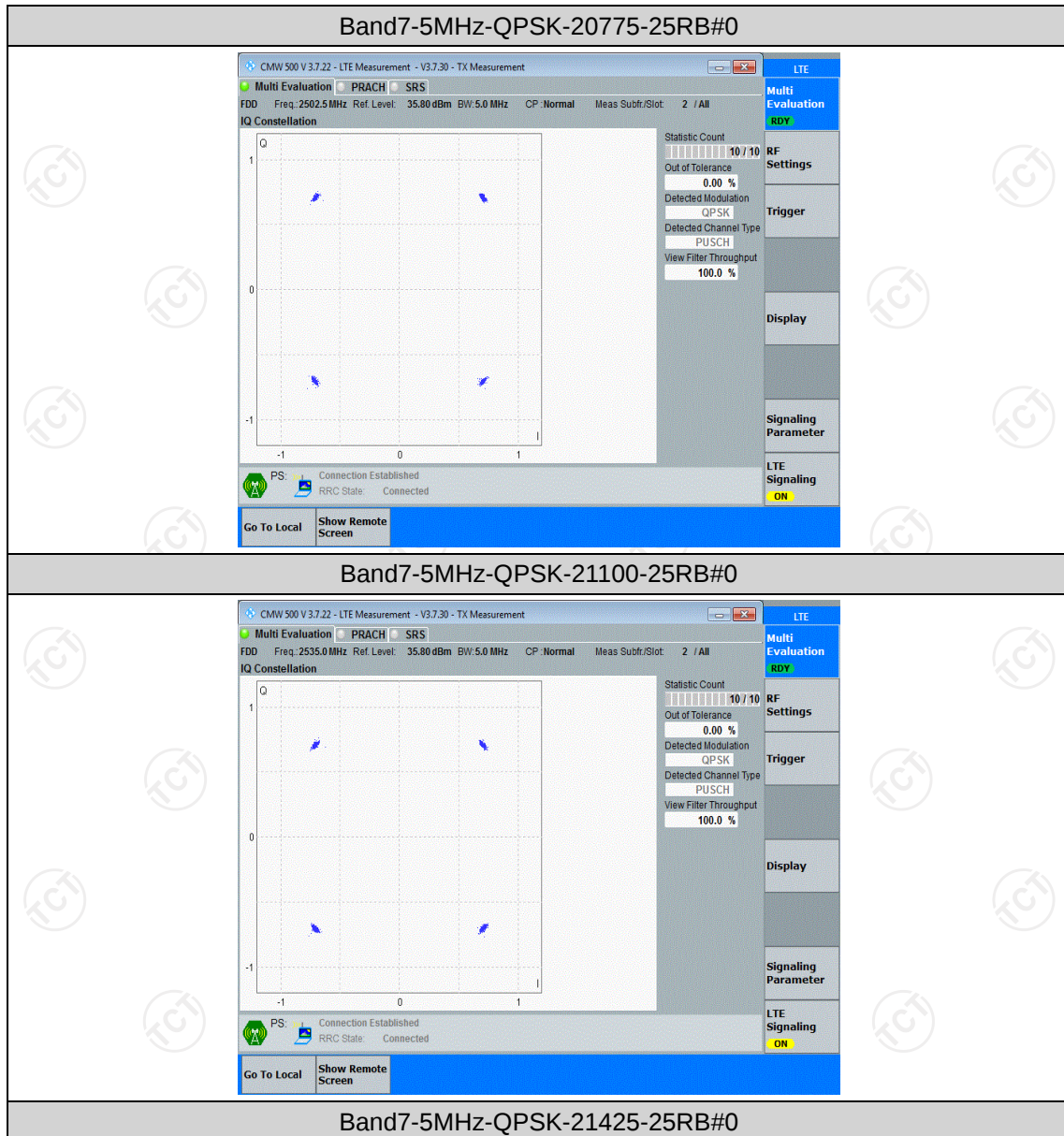
|       |      |       |       |        |    |     |        |           |      |      |
|-------|------|-------|-------|--------|----|-----|--------|-----------|------|------|
| Band7 | 5MHz | QPSK  | 21100 | 25RB#0 | NV | 20  | -19.34 | -0.007629 | ±2.5 | PASS |
| Band7 | 5MHz | QPSK  | 21425 | 25RB#0 | NV | -30 | 15.13  | 0.005893  | ±2.5 | PASS |
| Band7 | 5MHz | QPSK  | 21425 | 25RB#0 | NV | -20 | 25.09  | 0.009772  | ±2.5 | PASS |
| Band7 | 5MHz | QPSK  | 21425 | 25RB#0 | NV | 0   | 17.47  | 0.006804  | ±2.5 | PASS |
| Band7 | 5MHz | QPSK  | 21425 | 25RB#0 | NV | 10  | 14.85  | 0.005784  | ±2.5 | PASS |
| Band7 | 5MHz | QPSK  | 21425 | 25RB#0 | NV | 20  | 22.24  | 0.008662  | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | NV | -30 | 10.23  | 0.004088  | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | NV | -20 | -5.02  | -0.002006 | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | NV | 0   | -30.88 | -0.012340 | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | NV | 10  | -50.45 | -0.020160 | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | NV | 20  | -4.43  | -0.001770 | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | NV | -30 | -37.97 | -0.014978 | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | NV | -20 | -40.45 | -0.015957 | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | NV | 0   | -47.89 | -0.018892 | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | NV | 10  | -54.73 | -0.021590 | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | NV | 20  | 6.47   | 0.002552  | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | NV | -30 | 26.26  | 0.010228  | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | NV | -20 | 22.09  | 0.008604  | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | NV | 0   | 22.87  | 0.008907  | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | NV | 10  | 22.42  | 0.008732  | ±2.5 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | NV | 20  | 20.40  | 0.007945  | ±2.5 | PASS |

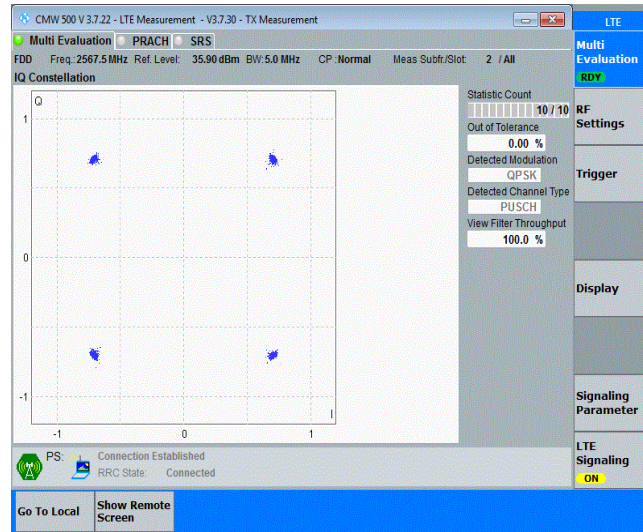
## Appendix G: Modulation Characteristics

### Test Result

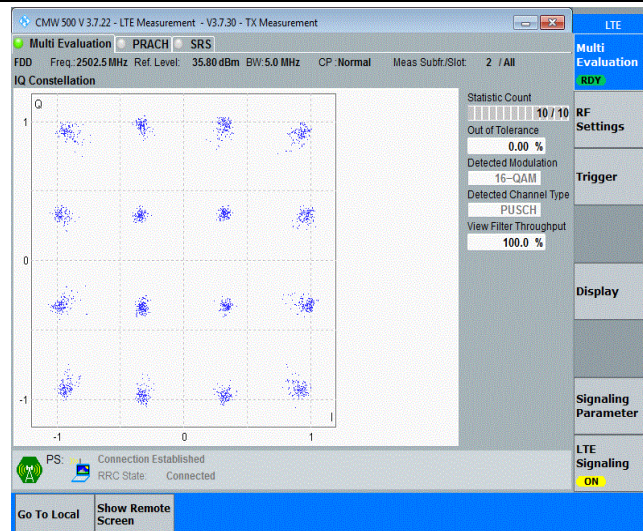
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|-------|-----------|------------|---------|------------------|--------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | PASS   | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0           | PASS   | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0           | PASS   | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0           | PASS   | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0           | PASS   | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 25RB#0           | PASS   | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 50RB#0           | PASS   | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 50RB#0           | PASS   | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 50RB#0           | PASS   | PASS    |
| Band7 | 10MHz     | 16QAM      | 20800   | 50RB#0           | PASS   | PASS    |
| Band7 | 10MHz     | 16QAM      | 21100   | 50RB#0           | PASS   | PASS    |
| Band7 | 10MHz     | 16QAM      | 21400   | 50RB#0           | PASS   | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 75RB#0           | PASS   | PASS    |
| Band7 | 15MHz     | QPSK       | 21100   | 75RB#0           | PASS   | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 75RB#0           | PASS   | PASS    |
| Band7 | 15MHz     | 16QAM      | 20825   | 75RB#0           | PASS   | PASS    |
| Band7 | 15MHz     | 16QAM      | 21100   | 75RB#0           | PASS   | PASS    |
| Band7 | 15MHz     | 16QAM      | 21375   | 75RB#0           | PASS   | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0          | PASS   | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | PASS   | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0          | PASS   | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0          | PASS   | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0          | PASS   | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0          | PASS   | PASS    |

## Test Graphs

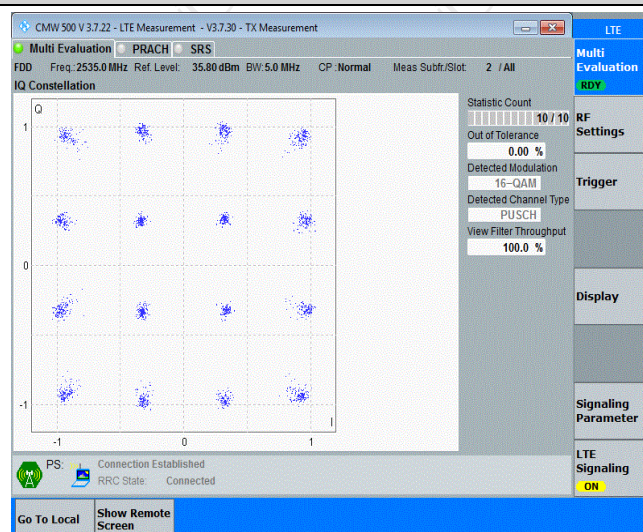




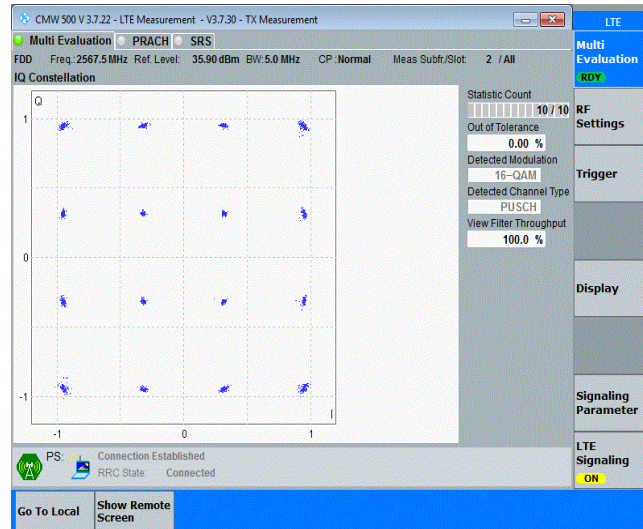
Band7-5MHz-16QAM-20775-25RB#0



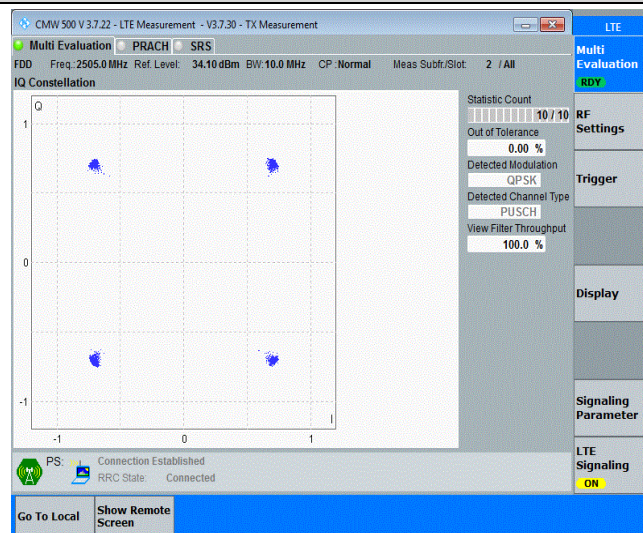
Band7-5MHz-16QAM-21100-25RB#0



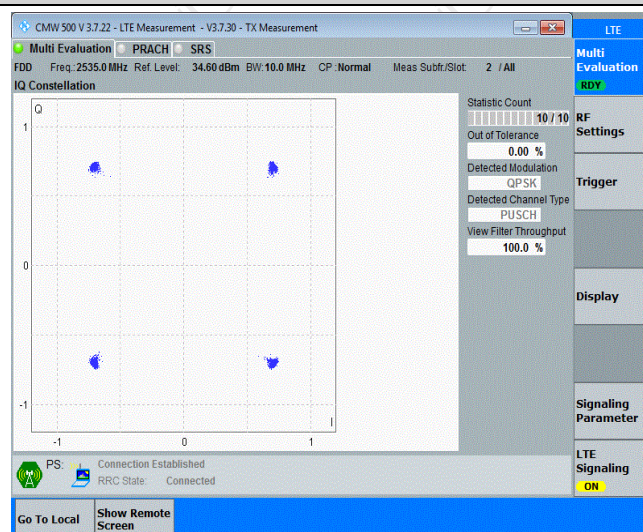
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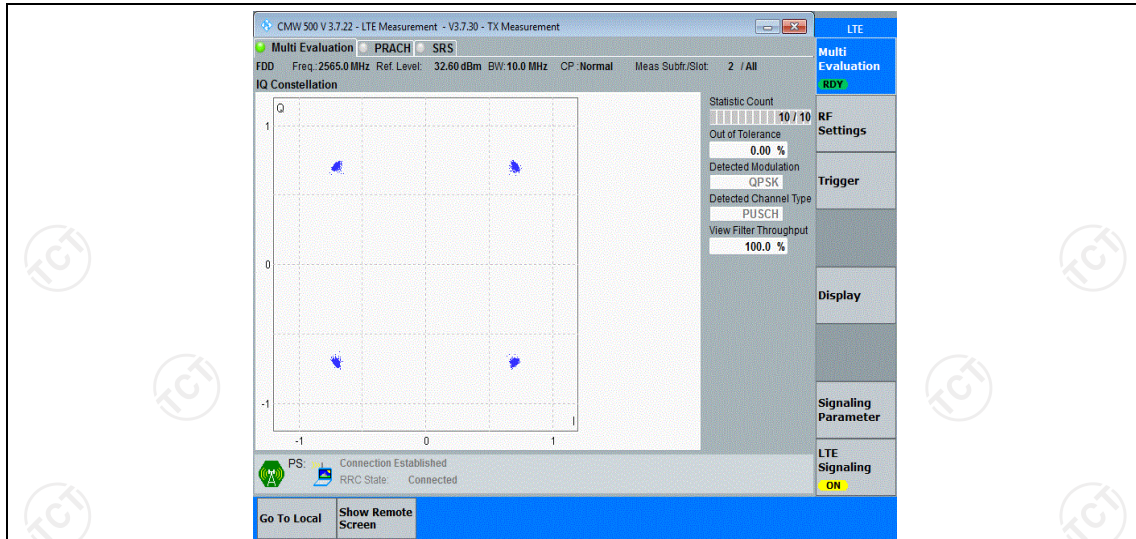
Band7-10MHz-QPSK-20800-50RB#0



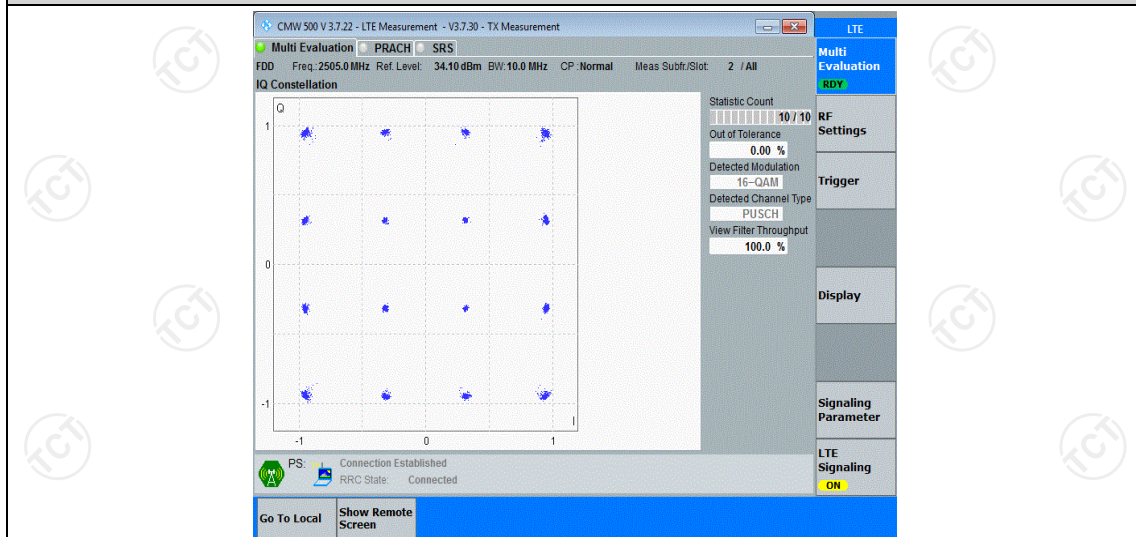
Band7-10MHz-QPSK-21100-50RB#0



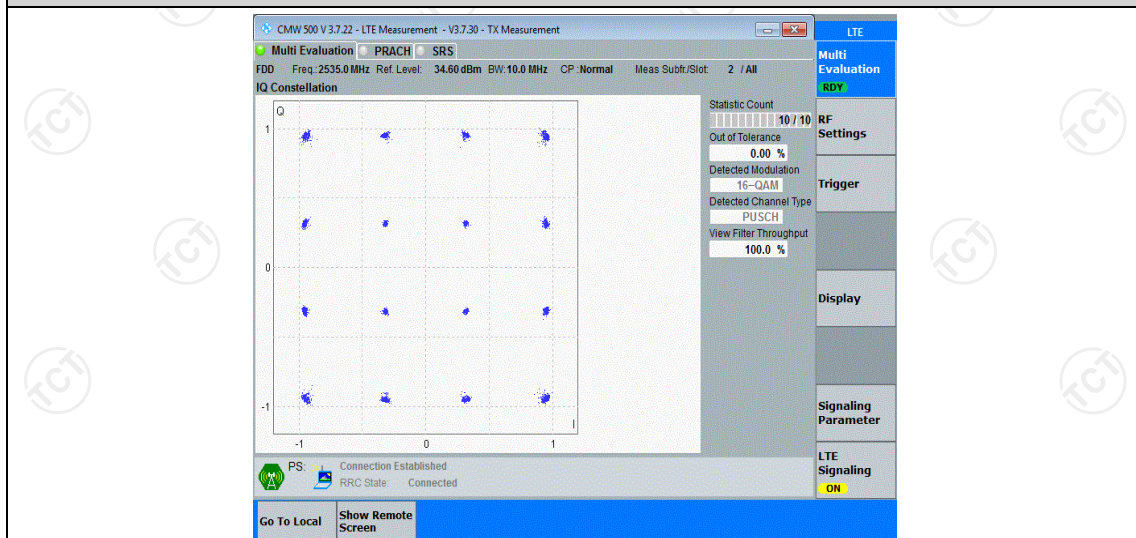
Band7-10MHz-QPSK-21400-50RB#0



Band7-10MHz-16QAM-20800-50RB#0



Band7-10MHz-16QAM-21100-50RB#0



Band7-10MHz-16QAM-21400-50RB#0

