



## FREQUENCY STABILITY

## Test Result

| Voltage |           |            |         |                  |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|------------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configuration | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5   | 1.4MHz    | QPSK       | 20407   | 6RB#0            | VL            | NT               | -3.20          | -0.003880       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20407   | 6RB#0            | VN            | NT               | 4.29           | 0.005202        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20407   | 6RB#0            | VH            | NT               | 5.65           | 0.006851        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20525   | 6RB#0            | VL            | NT               | -6.09          | -0.007280       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20525   | 6RB#0            | VN            | NT               | -7.10          | -0.008488       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20525   | 6RB#0            | VH            | NT               | 4.33           | 0.005176        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20643   | 6RB#0            | VL            | NT               | -6.34          | -0.007474       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20643   | 6RB#0            | VN            | NT               | -10.90         | -0.012849       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | QPSK       | 20643   | 6RB#0            | VH            | NT               | -4.71          | -0.005552       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | VL            | NT               | 15.61          | 0.018928        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | VN            | NT               | 14.98          | 0.018164        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | VH            | NT               | 18.11          | 0.021960        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | VL            | NT               | 12.45          | 0.014883        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | VN            | NT               | 13.19          | 0.015768        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | VH            | NT               | 17.92          | 0.021423        | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | VL            | NT               | -6.71          | -0.007910       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | VN            | NT               | -7.20          | -0.008488       | ±2.5        | PASS    |
| Band5   | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | VH            | NT               | -4.52          | -0.005328       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20415   | 15RB#0           | VL            | NT               | -9.97          | -0.012078       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20415   | 15RB#0           | VN            | NT               | -8.98          | -0.010878       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20415   | 15RB#0           | VH            | NT               | -10.07         | -0.012199       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20525   | 15RB#0           | VL            | NT               | -6.32          | -0.007555       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20525   | 15RB#0           | VN            | NT               | -8.88          | -0.010616       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20525   | 15RB#0           | VH            | NT               | -7.62          | -0.009109       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20635   | 15RB#0           | VL            | NT               | -5.32          | -0.006277       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20635   | 15RB#0           | VN            | NT               | -5.85          | -0.006903       | ±2.5        | PASS    |
| Band5   | 3MHz      | QPSK       | 20635   | 15RB#0           | VH            | NT               | 3.92           | 0.004625        | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20415   | 15RB#0           | VL            | NT               | -10.87         | -0.013168       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20415   | 15RB#0           | VN            | NT               | -12.47         | -0.015106       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20415   | 15RB#0           | VH            | NT               | -9.88          | -0.011969       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20525   | 15RB#0           | VL            | NT               | -4.46          | -0.005332       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20525   | 15RB#0           | VN            | NT               | -3.86          | -0.004614       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20525   | 15RB#0           | VH            | NT               | -5.28          | -0.006312       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20635   | 15RB#0           | VL            | NT               | -4.99          | -0.005888       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20635   | 15RB#0           | VN            | NT               | -7.45          | -0.008791       | ±2.5        | PASS    |
| Band5   | 3MHz      | 16QAM      | 20635   | 15RB#0           | VH            | NT               | -6.11          | -0.007209       | ±2.5        | PASS    |
| Band5   | 5MHz      | QPSK       | 20425   | 25RB#0           | VL            | NT               | -5.28          | -0.006388       | ±2.5        | PASS    |
| Band5   | 5MHz      | QPSK       | 20425   | 25RB#0           | VN            | NT               | 1.42           | 0.001718        | ±2.5        | PASS    |
| Band5   | 5MHz      | QPSK       | 20425   | 25RB#0           | VH            | NT               | -5.19          | -0.006279       | ±2.5        | PASS    |



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**Test Report No.: W7L-P22050002RF04**

|       |       |       |       |        |    |    |        |           |      |      |
|-------|-------|-------|-------|--------|----|----|--------|-----------|------|------|
| Band5 | 5MHz  | QPSK  | 20525 | 25RB#0 | VL | NT | 3.35   | 0.004005  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20525 | 25RB#0 | VN | NT | 3.00   | 0.003586  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20525 | 25RB#0 | VH | NT | -5.31  | -0.006348 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | VL | NT | 12.72  | 0.015027  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | VN | NT | 10.29  | 0.012156  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | VH | NT | -13.86 | -0.016373 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | VL | NT | -11.44 | -0.013842 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | VN | NT | -11.59 | -0.014023 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | VH | NT | -12.22 | -0.014785 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | VL | NT | -7.57  | -0.009050 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | VN | NT | -6.64  | -0.007938 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | VH | NT | -4.88  | -0.005834 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | VL | NT | 9.40   | 0.011105  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | VN | NT | 8.57   | 0.010124  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | VH | NT | 10.11  | 0.011943  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | VL | NT | -3.71  | -0.004475 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | VN | NT | -4.53  | -0.005464 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | VH | NT | 4.69   | 0.005657  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | VL | NT | -5.49  | -0.006563 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | VN | NT | 3.43   | 0.004100  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | VH | NT | -6.38  | -0.007627 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | VL | NT | 6.25   | 0.007405  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | VN | NT | 4.22   | 0.005000  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | VH | NT | -5.51  | -0.006528 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VL | NT | -10.29 | -0.012413 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VN | NT | -8.00  | -0.009650 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VH | NT | -13.18 | -0.015899 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VL | NT | -10.63 | -0.012708 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VN | NT | -11.54 | -0.013796 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VH | NT | -9.76  | -0.011668 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VL | NT | 6.08   | 0.007204  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VN | NT | 6.77   | 0.008021  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VH | NT | 5.74   | 0.006801  | ±2.5 | PASS |

| Temperature |           |            |         |                  |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|------------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configuration | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | -30              | 9.36           | 0.011350        | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | -20              | 8.88           | 0.010768        | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | 0                | 8.25           | 0.010004        | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | 10               | 9.83           | 0.011919        | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | 20               | 13.93          | 0.016891        | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | 30               | 13.82          | 0.016758        | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | 40               | 14.88          | 0.018043        | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20407   | 6RB#0            | NV            | 50               | 14.62          | 0.017728        | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20525   | 6RB#0            | NV            | -30              | 3.43           | 0.004100        | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20525   | 6RB#0            | NV            | -20              | 7.12           | 0.008512        | ±2.5        | PASS    |
| Band5       | 1.4MHz    | QPSK       | 20525   | 6RB#0            | NV            | 0                | 8.34           | 0.009970        | ±2.5        | PASS    |



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|       |        |       |       |        |    |     |        |           |      |      |
|-------|--------|-------|-------|--------|----|-----|--------|-----------|------|------|
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0  | NV | 10  | 8.05   | 0.009623  | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0  | NV | 20  | 7.22   | 0.008631  | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0  | NV | 30  | 8.17   | 0.009767  | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0  | NV | 40  | 9.06   | 0.010831  | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20525 | 6RB#0  | NV | 50  | 10.37  | 0.012397  | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0  | NV | -30 | -3.81  | -0.004491 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0  | NV | -20 | -3.89  | -0.004586 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0  | NV | 0   | -3.78  | -0.004456 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0  | NV | 10  | -3.72  | -0.004385 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0  | NV | 20  | 4.41   | 0.005199  | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0  | NV | 30  | -4.38  | -0.005163 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0  | NV | 40  | -2.93  | -0.003454 | ±2.5 | PASS |
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0  | NV | 50  | -5.38  | -0.006342 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0  | NV | -30 | 17.61  | 0.021353  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0  | NV | -20 | 20.71  | 0.025112  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0  | NV | 0   | 22.26  | 0.026992  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0  | NV | 10  | 24.60  | 0.029829  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0  | NV | 20  | 25.86  | 0.031357  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0  | NV | 30  | 22.73  | 0.027562  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0  | NV | 40  | 24.88  | 0.030169  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0  | NV | 50  | 25.68  | 0.031139  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0  | NV | -30 | 15.69  | 0.018757  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0  | NV | -20 | 18.17  | 0.021721  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0  | NV | 0   | 17.40  | 0.020801  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0  | NV | 10  | 16.77  | 0.020048  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0  | NV | 20  | 18.10  | 0.021638  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0  | NV | 30  | 21.17  | 0.025308  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0  | NV | 40  | 24.10  | 0.028811  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0  | NV | 50  | 28.00  | 0.033473  | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | NV | -30 | -7.80  | -0.009195 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | NV | -20 | -7.27  | -0.008570 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | NV | 0   | -7.11  | -0.008381 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | NV | 10  | -5.72  | -0.006743 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | NV | 20  | -7.01  | -0.008264 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | NV | 30  | -7.64  | -0.009006 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | NV | 40  | -7.60  | -0.008959 | ±2.5 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | NV | 50  | -8.37  | -0.009867 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | -30 | -13.05 | -0.015809 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | -20 | -12.02 | -0.014561 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | 0   | -10.66 | -0.012913 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | 10  | -13.39 | -0.016220 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | 20  | -13.83 | -0.016753 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | 30  | -11.60 | -0.014052 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | 40  | -10.89 | -0.013192 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | NV | 50  | -10.20 | -0.012356 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | -30 | -5.34  | -0.006384 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | -20 | -5.28  | -0.006312 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | 0   | -6.11  | -0.007304 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | 10  | -5.22  | -0.006240 | ±2.5 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | NV | 20  | -4.49  | -0.005368 | ±2.5 | PASS |



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|       |      |       |       |        |    |     |        |           |      |      |
|-------|------|-------|-------|--------|----|-----|--------|-----------|------|------|
| Band5 | 3MHz | QPSK  | 20525 | 15RB#0 | NV | 30  | 4.75   | 0.005678  | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 15RB#0 | NV | 40  | -6.31  | -0.007543 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20525 | 15RB#0 | NV | 50  | -6.81  | -0.008141 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | -30 | -3.36  | -0.003965 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | -20 | -5.34  | -0.006301 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | 0   | -7.48  | -0.008826 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | 10  | -6.34  | -0.007481 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | 20  | -6.97  | -0.008224 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | 30  | -5.81  | -0.006855 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | 40  | -6.12  | -0.007221 | ±2.5 | PASS |
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0 | NV | 50  | -6.68  | -0.007882 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | -30 | -12.99 | -0.015736 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | -20 | -11.10 | -0.013446 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | 0   | -9.41  | -0.011399 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | 10  | -9.27  | -0.011230 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | 20  | -10.20 | -0.012356 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | 30  | -11.77 | -0.014258 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | 40  | -8.38  | -0.010151 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | NV | 50  | -7.68  | -0.009303 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | -30 | -5.44  | -0.006503 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | -20 | -8.71  | -0.010412 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | 0   | -5.72  | -0.006838 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | 10  | -7.70  | -0.009205 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | 20  | -6.42  | -0.007675 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | 30  | -5.61  | -0.006707 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | 40  | -4.88  | -0.005834 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | NV | 50  | -4.03  | -0.004818 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | -30 | -3.63  | -0.004283 | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | -20 | 4.95   | 0.005841  | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 0   | 6.18   | 0.007292  | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 10  | 8.04   | 0.009487  | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 20  | 5.54   | 0.006537  | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 30  | 7.77   | 0.009168  | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 40  | 8.93   | 0.010537  | ±2.5 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | NV | 50  | 9.33   | 0.011009  | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | -30 | -5.64  | -0.006824 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | -20 | -7.51  | -0.009087 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | 0   | -8.31  | -0.010054 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | 10  | -9.26  | -0.011204 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | 20  | -10.31 | -0.012474 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | 30  | -10.00 | -0.012099 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | 40  | -12.32 | -0.014906 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | NV | 50  | -11.72 | -0.014180 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | NV | -30 | 7.00   | 0.008368  | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | NV | -20 | -4.08  | -0.004877 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | NV | 0   | 4.73   | 0.005655  | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | NV | 10  | -5.65  | -0.006754 | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | NV | 20  | 6.02   | 0.007197  | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | NV | 30  | 3.08   | 0.003682  | ±2.5 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | NV | 40  | -3.00  | -0.003586 | ±2.5 | PASS |



# Test Report No.: W7L-P22050002RF04

|       |       |       |       |        |    |     |        |           |      |      |
|-------|-------|-------|-------|--------|----|-----|--------|-----------|------|------|
| Band5 | 5MHz  | QPSK  | 20525 | 25RB#0 | NV | 50  | -7.31  | -0.008739 | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | -30 | 7.58   | 0.008955  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | -20 | 11.56  | 0.013656  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | 0   | 8.08   | 0.009545  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | 10  | 6.92   | 0.008175  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | 20  | 8.94   | 0.010561  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | 30  | 9.98   | 0.011790  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | 40  | 9.73   | 0.011494  | ±2.5 | PASS |
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0 | NV | 50  | 10.80  | 0.012758  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | NV | -30 | -13.32 | -0.016116 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | NV | -20 | -13.83 | -0.016733 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | NV | 0   | -11.53 | -0.013950 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | NV | 10  | -13.33 | -0.016128 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | NV | 20  | -12.66 | -0.015318 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | NV | 30  | -13.23 | -0.016007 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | NV | 40  | -11.69 | -0.014144 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0 | NV | 50  | -12.16 | -0.014713 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | -30 | -5.98  | -0.007149 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | -20 | -6.25  | -0.007472 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | 0   | -8.15  | -0.009743 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | 10  | -8.83  | -0.010556 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | 20  | -9.87  | -0.011799 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | 30  | -6.74  | -0.008057 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | 40  | -7.93  | -0.009480 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0 | NV | 50  | -6.15  | -0.007352 | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | -30 | 9.33   | 0.011022  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | -20 | 9.53   | 0.011258  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | 0   | 7.12   | 0.008411  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | 10  | 9.60   | 0.011341  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | 20  | 10.10  | 0.011931  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | 30  | 10.77  | 0.012723  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | 40  | 13.70  | 0.016184  | ±2.5 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | NV | 50  | 12.96  | 0.015310  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | -30 | -2.86  | -0.003450 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | -20 | -5.02  | -0.006055 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | 0   | -5.69  | -0.006864 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | 10  | -5.21  | -0.006285 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | 20  | -7.64  | -0.009216 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | 30  | -7.65  | -0.009228 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | 40  | -6.62  | -0.007986 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | NV | 50  | -8.23  | -0.009928 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | NV | -30 | -5.41  | -0.006467 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | NV | -20 | -6.92  | -0.008273 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | NV | 0   | -8.78  | -0.010496 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | NV | 10  | -7.17  | -0.008571 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | NV | 20  | -5.87  | -0.007017 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | NV | 30  | -7.68  | -0.009181 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | NV | 40  | -6.45  | -0.007711 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | NV | 50  | -9.43  | -0.011273 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | NV | -30 | -3.81  | -0.004514 | ±2.5 | PASS |



**BUREAU**  
**VERITAS**

**Test Report No.: W7L-P22050002RF04**

|       |       |       |       |        |    |     |        |           |      |      |
|-------|-------|-------|-------|--------|----|-----|--------|-----------|------|------|
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | NV | -20 | 5.39   | 0.006386  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | NV | 0   | 4.85   | 0.005746  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | NV | 10  | 3.91   | 0.004633  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | NV | 20  | -3.23  | -0.003827 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | NV | 30  | 3.38   | 0.004005  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | NV | 40  | 6.45   | 0.007642  | ±2.5 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | NV | 50  | 3.69   | 0.004372  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | -30 | -9.04  | -0.010905 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | -20 | -9.53  | -0.011496 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 0   | -9.24  | -0.011146 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 10  | -10.99 | -0.013257 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 20  | -9.24  | -0.011146 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 30  | -15.01 | -0.018106 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 40  | -10.96 | -0.013221 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 50  | -8.65  | -0.010434 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | -30 | -10.80 | -0.012911 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | -20 | -10.54 | -0.012600 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 0   | -8.57  | -0.010245 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 10  | -7.62  | -0.009109 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 20  | -7.71  | -0.009217 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 30  | -6.47  | -0.007735 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 40  | -7.84  | -0.009372 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 50  | -5.62  | -0.006718 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | -30 | 7.02   | 0.008318  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | -20 | 6.01   | 0.007121  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 0   | 4.45   | 0.005273  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 10  | 3.42   | 0.004052  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 20  | 4.56   | 0.005403  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 30  | 2.80   | 0.003318  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 40  | 3.66   | 0.004336  | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 50  | 5.68   | 0.006730  | ±2.5 | PASS |