

## Appendix for KSCR2207001267AT-FCC-LTE-Frequency Stability

### 1. Frequency Stability

#### 1.1 B2\_1.4MHz

##### 1.1.1 Test Result

| Band: 2 / Bandwidth: 1.4MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 1850.7          | 6             | 0      | 20         | 10.8          | -1.616           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -5.651           | -0.0031               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -2.317           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | -1.717           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | 0.401            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | -4.778           | -0.0026               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | -0.129           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | -5.808           | -0.0031               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | -1.287           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | -1.802           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 12            | 1.903            | 0.0010                | -2.5 to 2.5 | Pass    |
|                             | 1880            | 6             | 0      | 20         | 10.8          | 4.635            | 0.0025                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | 3.376            | 0.0018                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | 3.247            | 0.0017                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | 3.219            | 0.0017                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | 3.619            | 0.0019                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | 6.065            | 0.0032                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | 8.998            | 0.0048                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 4.807            | 0.0026                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 7.567            | 0.0040                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | 2.861            | 0.0015                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 12            | 8.039            | 0.0043                | -2.5 to 2.5 | Pass    |
|                             | 1909.3          | 6             | 0      | 20         | 10.8          | -0.229           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -2.604           | -0.0014               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -2.003           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | -0.572           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | 0.830            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | 1.073            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | -0.401           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 3.076            | 0.0016                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 0.501            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | -1.488           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 12            | -4.091           | -0.0021               | -2.5 to 2.5 | Pass    |
| 16QAM                       | 1850.7          | 6             | 0      | 20         | 10.8          | 3.977            | 0.0021                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | 2.775            | 0.0015                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | 3.862            | 0.0021                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | 1.101            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | -1.860           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | -1.173           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | 2.975            | 0.0016                | -2.5 to 2.5 | Pass    |



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|       |        |   |   |     |      |        |         |             |      |
|-------|--------|---|---|-----|------|--------|---------|-------------|------|
| 64QAM | 1880   | 6 | 0 | 10  | 12   | -4.306 | -0.0023 | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 12   | 6.824  | 0.0037  | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 12   | 2.875  | 0.0016  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | -4.392 | -0.0024 | -2.5 to 2.5 | Pass |
|       |        |   |   | 20  | 10.8 | 0.701  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | 2.918  | 0.0016  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | 5.465  | 0.0029  | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | 9.999  | 0.0053  | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | 4.077  | 0.0022  | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | 8.397  | 0.0045  | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 12   | 4.807  | 0.0026  | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 12   | 5.364  | 0.0029  | -2.5 to 2.5 | Pass |
|       | 1909.3 | 6 | 0 | 30  | 12   | 6.294  | 0.0033  | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 12   | 1.330  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | 6.480  | 0.0034  | -2.5 to 2.5 | Pass |
|       |        |   |   | 20  | 10.8 | 1.817  | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | 0.257  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | 1.745  | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | -0.443 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | -1.130 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | 0.987  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 12   | -1.388 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 12   | 5.722  | 0.0030  | -2.5 to 2.5 | Pass |
|       | 1850.7 | 6 | 0 | 30  | 12   | 3.619  | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 12   | 4.778  | 0.0025  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | -1.602 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |   |   | 20  | 10.8 | 1.559  | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | 5.980  | 0.0032  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | 2.275  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | 1.831  | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | -2.475 | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | 3.419  | 0.0018  | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 12   | -2.246 | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 12   | 3.347  | 0.0018  | -2.5 to 2.5 | Pass |
|       | 1880   | 6 | 0 | 30  | 12   | -1.216 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 12   | -4.134 | -0.0022 | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | 2.904  | 0.0016  | -2.5 to 2.5 | Pass |
|       |        |   |   | 20  | 10.8 | 4.821  | 0.0026  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | 5.393  | 0.0029  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | 7.925  | 0.0042  | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | 4.706  | 0.0025  | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | 3.662  | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | 1.445  | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 12   | 9.656  | 0.0051  | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 12   | 8.798  | 0.0047  | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 12   | 2.031  | 0.0011  | -2.5 to 2.5 | Pass |
|       | 1909.3 | 6 | 0 | 40  | 12   | 5.608  | 0.0030  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | 6.680  | 0.0036  | -2.5 to 2.5 | Pass |
|       |        |   |   | 20  | 10.8 | 2.975  | 0.0016  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | -0.029 | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | -0.401 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | 1.059  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | -0.644 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | -4.492 | -0.0024 | -2.5 to 2.5 | Pass |



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|        |        |   |   |     |      |        |         |             |      |
|--------|--------|---|---|-----|------|--------|---------|-------------|------|
|        |        |   |   | 0   | 12   | -1.917 | -0.0010 | -2.5 to 2.5 | Pass |
|        |        |   |   | 10  | 12   | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
|        |        |   |   | 30  | 12   | -3.233 | -0.0017 | -2.5 to 2.5 | Pass |
|        |        |   |   | 40  | 12   | -6.022 | -0.0032 | -2.5 to 2.5 | Pass |
|        |        |   |   | 50  | 12   | -4.463 | -0.0023 | -2.5 to 2.5 | Pass |
| 256QAM | 1850.7 | 6 | 0 | 20  | 10.8 | -2.775 | -0.0015 | -2.5 to 2.5 | Pass |
|        |        |   |   |     | 12   | 8.755  | 0.0047  | -2.5 to 2.5 | Pass |
|        |        |   |   |     | 13.2 | 2.346  | 0.0013  | -2.5 to 2.5 | Pass |
|        |        |   |   | -30 | 12   | 1.531  | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |   |   | -20 | 12   | 3.204  | 0.0017  | -2.5 to 2.5 | Pass |
|        |        |   |   | -10 | 12   | 6.680  | 0.0036  | -2.5 to 2.5 | Pass |
|        |        |   |   | 0   | 12   | 1.216  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |   |   | 10  | 12   | 2.761  | 0.0015  | -2.5 to 2.5 | Pass |
|        |        |   |   | 30  | 12   | -2.275 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |   |   | 40  | 12   | 5.093  | 0.0028  | -2.5 to 2.5 | Pass |
|        |        |   |   | 50  | 12   | 2.203  | 0.0012  | -2.5 to 2.5 | Pass |
|        | 1880   | 6 | 0 | 20  | 10.8 | 4.191  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |   |   |     | 12   | 2.189  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |   |   |     | 13.2 | 6.166  | 0.0033  | -2.5 to 2.5 | Pass |
|        |        |   |   | -30 | 12   | 6.180  | 0.0033  | -2.5 to 2.5 | Pass |
|        |        |   |   | -20 | 12   | 2.389  | 0.0013  | -2.5 to 2.5 | Pass |
|        |        |   |   | -10 | 12   | 4.964  | 0.0026  | -2.5 to 2.5 | Pass |
|        |        |   |   | 0   | 12   | 1.187  | 0.0006  | -2.5 to 2.5 | Pass |
|        |        |   |   | 10  | 12   | 5.565  | 0.0030  | -2.5 to 2.5 | Pass |
|        |        |   |   | 30  | 12   | 4.048  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |   |   | 40  | 12   | -2.732 | -0.0015 | -2.5 to 2.5 | Pass |
|        |        |   |   | 50  | 12   | 7.911  | 0.0042  | -2.5 to 2.5 | Pass |
|        | 1909.3 | 6 | 0 | 20  | 10.8 | 0.157  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |   |   |     | 12   | -6.323 | -0.0033 | -2.5 to 2.5 | Pass |
|        |        |   |   |     | 13.2 | -6.680 | -0.0035 | -2.5 to 2.5 | Pass |
|        |        |   |   | -30 | 12   | 0.501  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |   |   | -20 | 12   | -7.281 | -0.0038 | -2.5 to 2.5 | Pass |
|        |        |   |   | -10 | 12   | -4.406 | -0.0023 | -2.5 to 2.5 | Pass |
|        |        |   |   | 0   | 12   | -2.031 | -0.0011 | -2.5 to 2.5 | Pass |
|        |        |   |   | 10  | 12   | -1.473 | -0.0008 | -2.5 to 2.5 | Pass |
|        |        |   |   | 30  | 12   | 2.904  | 0.0015  | -2.5 to 2.5 | Pass |
|        |        |   |   | 40  | 12   | -2.875 | -0.0015 | -2.5 to 2.5 | Pass |
|        |        |   |   | 50  | 12   | -2.689 | -0.0014 | -2.5 to 2.5 | Pass |

## 1.2 B2\_3MHz

### 1.2.1 Test Result

| Band: 2 / Bandwidth: 3MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 1851.5          | 15            | 0      | 20         | 10.8          | -3.076           | -0.0017               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | -5.307           | -0.0029               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | -4.921           | -0.0027               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | -1.130           | -0.0006               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | -7.024           | -0.0038               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | -4.792           | -0.0026               | -2.5 to 2.5 | Pass    |



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|       |        |    |   |     |      |        |         |             |      |
|-------|--------|----|---|-----|------|--------|---------|-------------|------|
| 16QAM |        |    |   | 0   | 12   | -0.229 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | 2.747  | 0.0015  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | -3.204 | -0.0017 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | -0.644 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12   | -6.981 | -0.0038 | -2.5 to 2.5 | Pass |
|       | 1880   | 15 | 0 | 20  | 10.8 | 2.875  | 0.0015  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | 2.360  | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | -0.043 | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | 1.702  | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | -2.689 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | -1.044 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | 0.243  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | 0.372  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | -2.146 | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | 1.988  | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12   | -1.302 | -0.0007 | -2.5 to 2.5 | Pass |
|       | 1908.5 | 15 | 0 | 20  | 10.8 | 10.86  | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | -1.674 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | 1.760  | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | 3.862  | 0.0020  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | 3.104  | 0.0016  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | -0.243 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | 1.259  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | -0.057 | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | -1.588 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | -1.101 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12   | -0.544 | -0.0003 | -2.5 to 2.5 | Pass |
|       | 1851.5 | 15 | 0 | 20  | 10.8 | 0.100  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | -2.260 | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | -4.163 | -0.0022 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | 0.973  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | 2.174  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | -0.772 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | 1.202  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | -0.029 | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | 6.351  | 0.0034  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | 3.161  | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12   | 3.705  | 0.0020  | -2.5 to 2.5 | Pass |
|       | 1880   | 15 | 0 | 20  | 10.8 | 2.360  | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | 0.672  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | 0.987  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | -1.945 | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | 0.687  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | 2.375  | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | 2.847  | 0.0015  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | 0.358  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | 1.373  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | 3.648  | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12   | 0.129  | 0.0001  | -2.5 to 2.5 | Pass |
|       | 1908.5 | 15 | 0 | 20  | 10.8 | 3.490  | 0.0018  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | -0.286 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | 0.329  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | 2.160  | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | 2.575  | 0.0013  | -2.5 to 2.5 | Pass |



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|        |        |        |         |             |             |         |             |             |      |
|--------|--------|--------|---------|-------------|-------------|---------|-------------|-------------|------|
|        |        |        |         | -10         | 12          | -2.232  | -0.0012     | -2.5 to 2.5 | Pass |
|        |        |        |         | 0           | 12          | -0.315  | -0.0002     | -2.5 to 2.5 | Pass |
|        |        |        |         | 10          | 12          | -4.535  | -0.0024     | -2.5 to 2.5 | Pass |
|        |        |        |         | 30          | 12          | 1.230   | 0.0006      | -2.5 to 2.5 | Pass |
|        |        |        |         | 40          | 12          | -1.588  | -0.0008     | -2.5 to 2.5 | Pass |
|        |        |        |         | 50          | 12          | 2.518   | 0.0013      | -2.5 to 2.5 | Pass |
| 64QAM  | 1851.5 | 15     | 0       | 20          | 10.8        | 4.106   | 0.0022      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 12          | 2.847   | 0.0015      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 13.2        | 2.189   | 0.0012      | -2.5 to 2.5 | Pass |
|        |        |        |         | -30         | 12          | 1.831   | 0.0010      | -2.5 to 2.5 | Pass |
|        |        |        |         | -20         | 12          | 7.911   | 0.0043      | -2.5 to 2.5 | Pass |
|        |        |        |         | -10         | 12          | 0.157   | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |        |         | 0           | 12          | 2.232   | 0.0012      | -2.5 to 2.5 | Pass |
|        |        |        |         | 10          | 12          | 2.246   | 0.0012      | -2.5 to 2.5 | Pass |
|        |        |        |         | 30          | 12          | 7.696   | 0.0042      | -2.5 to 2.5 | Pass |
|        |        |        |         | 40          | 12          | 4.520   | 0.0024      | -2.5 to 2.5 | Pass |
|        | 50     | 12     | 1.431   | 0.0008      | -2.5 to 2.5 | Pass    |             |             |      |
|        | 1880   | 15     | 0       | 20          | 10.8        | 0.100   | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 12          | 7.067   | 0.0038      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 13.2        | 0.143   | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |        |         | -30         | 12          | 5.636   | 0.0030      | -2.5 to 2.5 | Pass |
|        |        |        |         | -20         | 12          | 2.632   | 0.0014      | -2.5 to 2.5 | Pass |
|        |        |        |         | -10         | 12          | -0.143  | -0.0001     | -2.5 to 2.5 | Pass |
|        |        |        |         | 0           | 12          | 1.302   | 0.0007      | -2.5 to 2.5 | Pass |
|        |        |        |         | 10          | 12          | -3.877  | -0.0021     | -2.5 to 2.5 | Pass |
|        |        |        |         | 30          | 12          | 3.119   | 0.0017      | -2.5 to 2.5 | Pass |
|        |        |        |         | 40          | 12          | 2.403   | 0.0013      | -2.5 to 2.5 | Pass |
|        | 50     | 12     | -1.159  | -0.0006     | -2.5 to 2.5 | Pass    |             |             |      |
|        | 1908.5 | 15     | 0       | 20          | 10.8        | -4.621  | -0.0024     | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 12          | 1.130   | 0.0006      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 13.2        | 2.489   | 0.0013      | -2.5 to 2.5 | Pass |
|        |        |        |         | -30         | 12          | 3.204   | 0.0017      | -2.5 to 2.5 | Pass |
|        |        |        |         | -20         | 12          | 2.103   | 0.0011      | -2.5 to 2.5 | Pass |
|        |        |        |         | -10         | 12          | -0.129  | -0.0001     | -2.5 to 2.5 | Pass |
|        |        |        |         | 0           | 12          | -1.087  | -0.0006     | -2.5 to 2.5 | Pass |
|        |        |        |         | 10          | 12          | 0.143   | 0.0001      | -2.5 to 2.5 | Pass |
| 30     |        |        |         | 12          | -7.653      | -0.0040 | -2.5 to 2.5 | Pass        |      |
| 40     |        |        |         | 12          | -3.233      | -0.0017 | -2.5 to 2.5 | Pass        |      |
| 50     | 12     | -2.074 | -0.0011 | -2.5 to 2.5 | Pass        |         |             |             |      |
| 256QAM | 1851.5 | 15     | 0       | 20          | 10.8        | -0.772  | -0.0004     | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 12          | 6.237   | 0.0034      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 13.2        | 3.147   | 0.0017      | -2.5 to 2.5 | Pass |
|        |        |        |         | -30         | 12          | -3.905  | -0.0021     | -2.5 to 2.5 | Pass |
|        |        |        |         | -20         | 12          | 1.130   | 0.0006      | -2.5 to 2.5 | Pass |
|        |        |        |         | -10         | 12          | -0.715  | -0.0004     | -2.5 to 2.5 | Pass |
|        |        |        |         | 0           | 12          | -1.230  | -0.0007     | -2.5 to 2.5 | Pass |
|        |        |        |         | 10          | 12          | -2.847  | -0.0015     | -2.5 to 2.5 | Pass |
|        |        |        |         | 30          | 12          | 0.715   | 0.0004      | -2.5 to 2.5 | Pass |
|        |        |        |         | 40          | 12          | 2.632   | 0.0014      | -2.5 to 2.5 | Pass |
|        | 50     | 12     | -1.302  | -0.0007     | -2.5 to 2.5 | Pass    |             |             |      |
|        | 1880   | 15     | 0       | 20          | 10.8        | 3.161   | 0.0017      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 12          | -1.717  | -0.0009     | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 13.2        | -0.257  | -0.0001     | -2.5 to 2.5 | Pass |
|        |        |        |         | -30         | 12          | 2.847   | 0.0015      | -2.5 to 2.5 | Pass |



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|  |        |    |   |     |      |        |         |             |      |
|--|--------|----|---|-----|------|--------|---------|-------------|------|
|  |        |    |   | -20 | 12   | 0.072  | 0.0000  | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 12   | 1.616  | 0.0009  | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 12   | -1.488 | -0.0008 | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 12   | -0.043 | 0.0000  | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 12   | -3.247 | -0.0017 | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 12   | 4.206  | 0.0022  | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 12   | 0.572  | 0.0003  | -2.5 to 2.5 | Pass |
|  | 1908.5 | 15 | 0 | 20  | 10.8 | 0.587  | 0.0003  | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 12   | 0.529  | 0.0003  | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 13.2 | 3.304  | 0.0017  | -2.5 to 2.5 | Pass |
|  |        |    |   | -30 | 12   | 3.147  | 0.0016  | -2.5 to 2.5 | Pass |
|  |        |    |   | -20 | 12   | 3.161  | 0.0017  | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 12   | 1.402  | 0.0007  | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 12   | -2.332 | -0.0012 | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 12   | 0.644  | 0.0003  | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 12   | 3.119  | 0.0016  | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 12   | 2.446  | 0.0013  | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 12   | -2.046 | -0.0011 | -2.5 to 2.5 | Pass |

## 1.3 B2\_5MHz

### 1.3.1 Test Result

| Band: 2 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 1852.5          | 25            | 0      | 20         | 10.8          | -5.765           | -0.0031               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | -0.987           | -0.0005               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | 1.302            | 0.0007                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | 1.416            | 0.0008                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | -1.831           | -0.0010               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | 0.157            | 0.0001                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 12            | -2.046           | -0.0011               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 12            | -1.974           | -0.0011               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 12            | -1.874           | -0.0010               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 12            | 1.516            | 0.0008                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 12            | -0.672           | -0.0004               | -2.5 to 2.5 | Pass    |
|                           | 1880            | 25            | 0      | 20         | 10.8          | 5.293            | 0.0028                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | 2.346            | 0.0012                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | 3.033            | 0.0016                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | 0.572            | 0.0003                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | 6.509            | 0.0035                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | 7.267            | 0.0039                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 12            | 7.310            | 0.0039                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 12            | -1.073           | -0.0006               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 12            | 4.392            | 0.0023                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 12            | 4.077            | 0.0022                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 12            | 5.178            | 0.0028                | -2.5 to 2.5 | Pass    |
|                           | 1907.5          | 25            | 0      | 20         | 10.8          | -2.360           | -0.0012               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | -2.561           | -0.0013               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | -4.807           | -0.0025               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | -1.888           | -0.0010               | -2.5 to 2.5 | Pass    |



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|       |        |    |   |     |      |        |         |             |      |
|-------|--------|----|---|-----|------|--------|---------|-------------|------|
|       |        |    |   | -20 | 12   | -0.157 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | -1.073 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | -3.791 | -0.0020 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | -7.467 | -0.0039 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | -1.817 | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | -1.559 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12   | -0.257 | -0.0001 | -2.5 to 2.5 | Pass |
| 16QAM | 1852.5 | 25 | 0 | 20  | 10.8 | -3.948 | -0.0021 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | 0.229  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | -1.516 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | 1.059  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | 1.044  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | -3.433 | -0.0019 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | -4.134 | -0.0022 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | 3.619  | 0.0020  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | -1.416 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | 1.574  | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12   | 2.332  | 0.0013  | -2.5 to 2.5 | Pass |
|       | 1880   | 25 | 0 | 20  | 10.8 | 4.964  | 0.0026  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | 4.320  | 0.0023  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | 5.922  | 0.0032  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | 5.136  | 0.0027  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | 4.392  | 0.0023  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | 6.022  | 0.0032  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | 3.963  | 0.0021  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | 7.381  | 0.0039  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | 6.380  | 0.0034  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | 2.046  | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12   | 4.535  | 0.0024  | -2.5 to 2.5 | Pass |
|       | 1907.5 | 25 | 0 | 20  | 10.8 | 2.375  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | -2.575 | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | -1.802 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | -3.891 | -0.0020 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | 5.021  | 0.0026  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | 10.86  | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | 1.559  | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | 4.234  | 0.0022  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | 3.848  | 0.0020  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | -0.772 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12   | 4.649  | 0.0024  | -2.5 to 2.5 | Pass |
| 64QAM | 1852.5 | 25 | 0 | 20  | 10.8 | 3.905  | 0.0021  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | 1.731  | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | 0.629  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | -2.246 | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | 3.133  | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | -1.245 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | -0.257 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | 1.059  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | 0.615  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | -0.787 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12   | 5.579  | 0.0030  | -2.5 to 2.5 | Pass |
|       | 1880   | 25 | 0 | 20  | 10.8 | 2.289  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | 6.037  | 0.0032  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | 5.035  | 0.0027  | -2.5 to 2.5 | Pass |



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|        |        |    |   |     |      |        |         |             |      |
|--------|--------|----|---|-----|------|--------|---------|-------------|------|
| 256QAM | 1907.5 | 25 | 0 | -30 | 12   | 7.296  | 0.0039  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 8.111  | 0.0043  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 0.944  | 0.0005  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 6.466  | 0.0034  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 4.392  | 0.0023  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 6.194  | 0.0033  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 6.895  | 0.0037  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 7.653  | 0.0041  | -2.5 to 2.5 | Pass |
|        |        |    |   | 20  | 10.8 | -2.203 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 3.176  | 0.0017  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 2.933  | 0.0015  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 3.376  | 0.0018  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 0.901  | 0.0005  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 6.809  | 0.0036  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 2.346  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 1.903  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 1.402  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 1.903  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 2.289  | 0.0012  | -2.5 to 2.5 | Pass |
| 256QAM | 1852.5 | 25 | 0 | 20  | 10.8 | 2.189  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -2.074 | -0.0011 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 0.100  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 3.734  | 0.0020  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -1.831 | -0.0010 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 0.486  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 0.329  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | -4.377 | -0.0024 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | -1.945 | -0.0010 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 2.217  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -4.964 | -0.0027 | -2.5 to 2.5 | Pass |
|        | 1880   | 25 | 0 | 20  | 10.8 | 6.137  | 0.0033  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 2.403  | 0.0013  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 6.537  | 0.0035  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 2.203  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 5.679  | 0.0030  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 4.063  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 1.359  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 6.795  | 0.0036  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 5.379  | 0.0029  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 4.420  | 0.0024  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 5.293  | 0.0028  | -2.5 to 2.5 | Pass |
|        | 1907.5 | 25 | 0 | 20  | 10.8 | 0.644  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -1.388 | -0.0007 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 2.131  | 0.0011  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 0.415  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 0.544  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -0.243 | -0.0001 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 4.163  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 1.259  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 3.033  | 0.0016  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 6.065  | 0.0032  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -0.730 | -0.0004 | -2.5 to 2.5 | Pass |



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## 1.4 B2\_10MHz

### 1.4.1 Test Result

| Band: 2 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1855            | 50            | 0      | 20         | 10.8          | -2.189           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -2.947           | -0.0016               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -1.559           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -1.516           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -1.745           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -1.702           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -6.137           | -0.0033               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -4.005           | -0.0022               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | -2.561           | -0.0014               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -1.459           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            | 1880            | 50            | 0      | 20         | 10.8          | -1.903           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -2.203           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 2.646            | 0.0014                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -1.531           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 0.000            | 0.0000                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -0.830           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -0.143           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -1.631           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 1.359            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -0.858           | -0.0005               | -2.5 to 2.5 | Pass    |
|                            | 1905            | 50            | 0      | 20         | 10.8          | 4.363            | 0.0023                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 1.216            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 3.476            | 0.0018                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 2.160            | 0.0011                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 5.822            | 0.0031                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 1.402            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 4.377            | 0.0023                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 3.033            | 0.0016                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 5.822            | 0.0031                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | 4.463            | 0.0023                | -2.5 to 2.5 | Pass    |
| 16QAM                      | 1855            | 50            | 0      | 20         | 10.8          | 0.830            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -1.130           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -2.160           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -1.531           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -5.336           | -0.0029               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -2.704           | -0.0015               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 1.459            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -0.587           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | -3.605           | -0.0019               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -4.091           | -0.0022               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | -1.159           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            | 1880            | 50            | 0      | 20         | 10.8          | 2.561            | 0.0014                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 0.415            | 0.0002                | -2.5 to 2.5 | Pass    |



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|        |      |    |   |     |      |        |         |             |      |
|--------|------|----|---|-----|------|--------|---------|-------------|------|
| 64QAM  | 1905 | 50 | 0 |     | 13.2 | 0.901  | 0.0005  | -2.5 to 2.5 | Pass |
|        |      |    |   | -30 | 12   | 2.990  | 0.0016  | -2.5 to 2.5 | Pass |
|        |      |    |   | -20 | 12   | 0.572  | 0.0003  | -2.5 to 2.5 | Pass |
|        |      |    |   | -10 | 12   | -1.101 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |    |   | 0   | 12   | 2.332  | 0.0012  | -2.5 to 2.5 | Pass |
|        |      |    |   | 10  | 12   | 1.845  | 0.0010  | -2.5 to 2.5 | Pass |
|        |      |    |   | 30  | 12   | 3.705  | 0.0020  | -2.5 to 2.5 | Pass |
|        |      |    |   | 40  | 12   | -1.502 | -0.0008 | -2.5 to 2.5 | Pass |
|        |      |    |   | 50  | 12   | -1.187 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |    |   | 20  | 10.8 | 2.575  | 0.0014  | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 12   | 0.572  | 0.0003  | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 13.2 | -1.702 | -0.0009 | -2.5 to 2.5 | Pass |
|        |      |    |   | -30 | 12   | -1.187 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |    |   | -20 | 12   | -1.245 | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |    |   | -10 | 12   | -1.259 | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |    |   | 0   | 12   | -2.618 | -0.0014 | -2.5 to 2.5 | Pass |
|        |      |    |   | 10  | 12   | -1.945 | -0.0010 | -2.5 to 2.5 | Pass |
|        |      |    |   | 30  | 12   | -1.373 | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |    |   | 40  | 12   | -2.246 | -0.0012 | -2.5 to 2.5 | Pass |
|        |      |    |   | 50  | 12   | -5.536 | -0.0029 | -2.5 to 2.5 | Pass |
|        | 1855 | 50 | 0 | 20  | 10.8 | -3.390 | -0.0018 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 12   | -0.958 | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 13.2 | -6.309 | -0.0034 | -2.5 to 2.5 | Pass |
|        |      |    |   | -30 | 12   | -0.844 | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |    |   | -20 | 12   | -2.460 | -0.0013 | -2.5 to 2.5 | Pass |
|        |      |    |   | -10 | 12   | -4.721 | -0.0025 | -2.5 to 2.5 | Pass |
|        |      |    |   | 0   | 12   | -1.717 | -0.0009 | -2.5 to 2.5 | Pass |
|        |      |    |   | 10  | 12   | -7.424 | -0.0040 | -2.5 to 2.5 | Pass |
|        |      |    |   | 30  | 12   | -3.891 | -0.0021 | -2.5 to 2.5 | Pass |
|        |      |    |   | 40  | 12   | -0.572 | -0.0003 | -2.5 to 2.5 | Pass |
|        |      |    |   | 50  | 12   | -0.687 | -0.0004 | -2.5 to 2.5 | Pass |
|        |      |    |   | 20  | 10.8 | 0.057  | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 12   | -0.973 | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 13.2 | 1.159  | 0.0006  | -2.5 to 2.5 | Pass |
|        |      |    |   | -30 | 12   | 2.060  | 0.0011  | -2.5 to 2.5 | Pass |
|        |      |    |   | -20 | 12   | 1.130  | 0.0006  | -2.5 to 2.5 | Pass |
|        |      |    |   | -10 | 12   | -2.303 | -0.0012 | -2.5 to 2.5 | Pass |
|        |      |    |   | 0   | 12   | 5.779  | 0.0031  | -2.5 to 2.5 | Pass |
|        |      |    |   | 10  | 12   | -1.230 | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |    |   | 30  | 12   | 2.003  | 0.0011  | -2.5 to 2.5 | Pass |
|        |      |    |   | 40  | 12   | -1.116 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |    |   | 50  | 12   | -0.043 | 0.0000  | -2.5 to 2.5 | Pass |
| 256QAM | 1880 | 50 | 0 | 20  | 10.8 | -1.688 | -0.0009 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 12   | -4.392 | -0.0023 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 13.2 | 0.858  | 0.0005  | -2.5 to 2.5 | Pass |
|        |      |    |   | -30 | 12   | -1.502 | -0.0008 | -2.5 to 2.5 | Pass |
|        |      |    |   | -20 | 12   | -2.604 | -0.0014 | -2.5 to 2.5 | Pass |
|        |      |    |   | -10 | 12   | -2.575 | -0.0014 | -2.5 to 2.5 | Pass |
|        |      |    |   | 0   | 12   | -1.073 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |    |   | 10  | 12   | 2.904  | 0.0015  | -2.5 to 2.5 | Pass |
|        |      |    |   | 30  | 12   | 3.433  | 0.0018  | -2.5 to 2.5 | Pass |
|        |      |    |   | 40  | 12   | -1.602 | -0.0008 | -2.5 to 2.5 | Pass |
|        |      |    |   | 50  | 12   | -0.858 | -0.0005 | -2.5 to 2.5 | Pass |
|        | 1905 | 50 | 0 | 20  | 10.8 | -2.189 | -0.0012 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 12   | -0.858 | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 13.2 | 0.858  | 0.0005  | -2.5 to 2.5 | Pass |
|        |      |    |   |     | 10.8 | -2.189 | -0.0012 | -2.5 to 2.5 | Pass |



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|  |      |    |        |         |             |        |         |             |      |
|--|------|----|--------|---------|-------------|--------|---------|-------------|------|
|  |      |    |        |         | 12          | -1.559 | -0.0008 | -2.5 to 2.5 | Pass |
|  |      |    |        |         | 13.2        | 1.245  | 0.0007  | -2.5 to 2.5 | Pass |
|  |      |    |        | -30     | 12          | 3.033  | 0.0016  | -2.5 to 2.5 | Pass |
|  |      |    |        | -20     | 12          | 4.048  | 0.0022  | -2.5 to 2.5 | Pass |
|  |      |    |        | -10     | 12          | 2.146  | 0.0012  | -2.5 to 2.5 | Pass |
|  |      |    |        | 0       | 12          | 1.860  | 0.0010  | -2.5 to 2.5 | Pass |
|  |      |    |        | 10      | 12          | 2.089  | 0.0011  | -2.5 to 2.5 | Pass |
|  |      |    |        | 30      | 12          | 3.161  | 0.0017  | -2.5 to 2.5 | Pass |
|  |      |    |        | 40      | 12          | 4.306  | 0.0023  | -2.5 to 2.5 | Pass |
|  |      |    |        | 50      | 12          | 4.735  | 0.0026  | -2.5 to 2.5 | Pass |
|  | 1880 | 50 | 0      | 20      | 10.8        | 0.415  | 0.0002  | -2.5 to 2.5 | Pass |
|  |      |    |        |         | 12          | -0.300 | -0.0002 | -2.5 to 2.5 | Pass |
|  |      |    |        |         | 13.2        | -0.629 | -0.0003 | -2.5 to 2.5 | Pass |
|  |      |    |        | -30     | 12          | -1.431 | -0.0008 | -2.5 to 2.5 | Pass |
|  |      |    |        | -20     | 12          | 0.529  | 0.0003  | -2.5 to 2.5 | Pass |
|  |      |    |        | -10     | 12          | -0.844 | -0.0004 | -2.5 to 2.5 | Pass |
|  |      |    |        | 0       | 12          | 0.315  | 0.0002  | -2.5 to 2.5 | Pass |
|  |      |    |        | 10      | 12          | 3.963  | 0.0021  | -2.5 to 2.5 | Pass |
|  |      |    |        | 30      | 12          | 3.176  | 0.0017  | -2.5 to 2.5 | Pass |
|  |      |    |        | 40      | 12          | 0.958  | 0.0005  | -2.5 to 2.5 | Pass |
|  | 50   | 12 | 2.060  | 0.0011  | -2.5 to 2.5 | Pass   |         |             |      |
|  | 1905 | 50 | 0      | 20      | 10.8        | -1.459 | -0.0008 | -2.5 to 2.5 | Pass |
|  |      |    |        |         | 12          | 1.645  | 0.0009  | -2.5 to 2.5 | Pass |
|  |      |    |        |         | 13.2        | -0.243 | -0.0001 | -2.5 to 2.5 | Pass |
|  |      |    |        | -30     | 12          | 2.532  | 0.0013  | -2.5 to 2.5 | Pass |
|  |      |    |        | -20     | 12          | 3.190  | 0.0017  | -2.5 to 2.5 | Pass |
|  |      |    |        | -10     | 12          | 1.845  | 0.0010  | -2.5 to 2.5 | Pass |
|  |      |    |        | 0       | 12          | 0.973  | 0.0005  | -2.5 to 2.5 | Pass |
|  |      |    |        | 10      | 12          | 2.275  | 0.0012  | -2.5 to 2.5 | Pass |
|  |      |    |        | 30      | 12          | 0.229  | 0.0001  | -2.5 to 2.5 | Pass |
|  |      |    |        | 40      | 12          | 2.246  | 0.0012  | -2.5 to 2.5 | Pass |
|  | 50   | 12 | -1.917 | -0.0010 | -2.5 to 2.5 | Pass   |         |             |      |

## 1.5 B2\_15MHz

### 1.5.1 Test Result

| Band: 2 / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1857.5          | 75            | 0      | 20         | 10.8          | 6.294            | 0.0034                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 12         | 1.388         | 0.0007           | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 13.2       | 3.834         | 0.0021           | 0.0021                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 2.990            | 0.0016                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 4.177            | 0.0022                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 1.330            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 1.602            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 3.519            | 0.0019                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 3.676            | 0.0020                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | 1.273            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | 3.877            | 0.0021                | -2.5 to 2.5 | Pass    |
|                            | 1880            | 75            | 0      | 20         | 10.8          | 2.503            | 0.0013                | -2.5 to 2.5 | Pass    |



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|       |        |       |        |             |       |        |             |             |      |
|-------|--------|-------|--------|-------------|-------|--------|-------------|-------------|------|
|       |        |       |        |             | 12    | -2.460 | -0.0013     | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 13.2  | 0.000  | 0.0000      | -2.5 to 2.5 | Pass |
|       |        |       |        | -30         | 12    | -1.602 | -0.0009     | -2.5 to 2.5 | Pass |
|       |        |       |        | -20         | 12    | -2.532 | -0.0013     | -2.5 to 2.5 | Pass |
|       |        |       |        | -10         | 12    | 4.592  | 0.0024      | -2.5 to 2.5 | Pass |
|       |        |       |        | 0           | 12    | 1.330  | 0.0007      | -2.5 to 2.5 | Pass |
|       |        |       |        | 10          | 12    | 1.187  | 0.0006      | -2.5 to 2.5 | Pass |
|       |        |       |        | 30          | 12    | -3.462 | -0.0018     | -2.5 to 2.5 | Pass |
|       |        |       |        | 40          | 12    | -0.215 | -0.0001     | -2.5 to 2.5 | Pass |
|       |        |       |        | 50          | 12    | -0.944 | -0.0005     | -2.5 to 2.5 | Pass |
|       | 1902.5 | 75    | 0      | 20          | 10.8  | 6.652  | 0.0035      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 12    | 3.619  | 0.0019      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 13.2  | 4.592  | 0.0024      | -2.5 to 2.5 | Pass |
|       |        |       |        | -30         | 12    | 1.230  | 0.0006      | -2.5 to 2.5 | Pass |
|       |        |       |        | -20         | 12    | 3.748  | 0.0020      | -2.5 to 2.5 | Pass |
|       |        |       |        | -10         | 12    | 4.420  | 0.0023      | -2.5 to 2.5 | Pass |
|       |        |       |        | 0           | 12    | 1.187  | 0.0006      | -2.5 to 2.5 | Pass |
|       |        |       |        | 10          | 12    | 3.591  | 0.0019      | -2.5 to 2.5 | Pass |
|       |        |       |        | 30          | 12    | 3.347  | 0.0018      | -2.5 to 2.5 | Pass |
| 40    |        |       |        | 12          | 3.576 | 0.0019 | -2.5 to 2.5 | Pass        |      |
| 50    | 12     | 2.317 | 0.0012 | -2.5 to 2.5 | Pass  |        |             |             |      |
| 16QAM | 1857.5 | 75    | 0      | 20          | 10.8  | 3.104  | 0.0017      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 12    | 0.744  | 0.0004      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 13.2  | 0.987  | 0.0005      | -2.5 to 2.5 | Pass |
|       |        |       |        | -30         | 12    | 1.602  | 0.0009      | -2.5 to 2.5 | Pass |
|       |        |       |        | -20         | 12    | -1.631 | -0.0009     | -2.5 to 2.5 | Pass |
|       |        |       |        | -10         | 12    | -1.287 | -0.0007     | -2.5 to 2.5 | Pass |
|       |        |       |        | 0           | 12    | -3.490 | -0.0019     | -2.5 to 2.5 | Pass |
|       |        |       |        | 10          | 12    | -3.819 | -0.0021     | -2.5 to 2.5 | Pass |
|       |        |       |        | 30          | 12    | -2.904 | -0.0016     | -2.5 to 2.5 | Pass |
|       |        |       |        | 40          | 12    | -3.133 | -0.0017     | -2.5 to 2.5 | Pass |
|       |        |       |        | 50          | 12    | 1.516  | 0.0008      | -2.5 to 2.5 | Pass |
|       | 1880   | 75    | 0      | 20          | 10.8  | 2.060  | 0.0011      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 12    | 2.618  | 0.0014      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 13.2  | 1.001  | 0.0005      | -2.5 to 2.5 | Pass |
|       |        |       |        | -30         | 12    | 0.901  | 0.0005      | -2.5 to 2.5 | Pass |
|       |        |       |        | -20         | 12    | 0.558  | 0.0003      | -2.5 to 2.5 | Pass |
|       |        |       |        | -10         | 12    | -0.501 | -0.0003     | -2.5 to 2.5 | Pass |
|       |        |       |        | 0           | 12    | 1.030  | 0.0005      | -2.5 to 2.5 | Pass |
|       |        |       |        | 10          | 12    | 3.219  | 0.0017      | -2.5 to 2.5 | Pass |
|       |        |       |        | 30          | 12    | -0.043 | 0.0000      | -2.5 to 2.5 | Pass |
|       |        |       |        | 40          | 12    | 1.559  | 0.0008      | -2.5 to 2.5 | Pass |
|       |        |       |        | 50          | 12    | 2.604  | 0.0014      | -2.5 to 2.5 | Pass |
|       | 1902.5 | 75    | 0      | 20          | 10.8  | 0.229  | 0.0001      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 12    | 3.090  | 0.0016      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 13.2  | 1.187  | 0.0006      | -2.5 to 2.5 | Pass |
|       |        |       |        | -30         | 12    | 2.861  | 0.0015      | -2.5 to 2.5 | Pass |
|       |        |       |        | -20         | 12    | 2.689  | 0.0014      | -2.5 to 2.5 | Pass |
|       |        |       |        | -10         | 12    | 4.263  | 0.0022      | -2.5 to 2.5 | Pass |
|       |        |       |        | 0           | 12    | 3.819  | 0.0020      | -2.5 to 2.5 | Pass |
|       |        |       |        | 10          | 12    | 4.892  | 0.0026      | -2.5 to 2.5 | Pass |
|       |        |       |        | 30          | 12    | 1.416  | 0.0007      | -2.5 to 2.5 | Pass |
|       |        |       |        | 40          | 12    | 3.405  | 0.0018      | -2.5 to 2.5 | Pass |
|       |        |       |        | 50          | 12    | 2.346  | 0.0012      | -2.5 to 2.5 | Pass |



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|        |        |        |         |             |             |         |             |             |      |
|--------|--------|--------|---------|-------------|-------------|---------|-------------|-------------|------|
| 64QAM  | 1857.5 | 75     | 0       | 20          | 10.8        | 1.674   | 0.0009      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 12          | -2.747  | -0.0015     | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 13.2        | -0.057  | 0.0000      | -2.5 to 2.5 | Pass |
|        |        |        |         | -30         | 12          | -2.789  | -0.0015     | -2.5 to 2.5 | Pass |
|        |        |        |         | -20         | 12          | -2.875  | -0.0015     | -2.5 to 2.5 | Pass |
|        |        |        |         | -10         | 12          | -0.658  | -0.0004     | -2.5 to 2.5 | Pass |
|        |        |        |         | 0           | 12          | -0.772  | -0.0004     | -2.5 to 2.5 | Pass |
|        |        |        |         | 10          | 12          | -1.316  | -0.0007     | -2.5 to 2.5 | Pass |
|        |        |        |         | 30          | 12          | -3.176  | -0.0017     | -2.5 to 2.5 | Pass |
|        |        |        |         | 40          | 12          | -1.173  | -0.0006     | -2.5 to 2.5 | Pass |
|        | 50     | 12     | -1.388  | -0.0007     | -2.5 to 2.5 | Pass    |             |             |      |
|        | 1880   | 75     | 0       | 20          | 10.8        | 1.960   | 0.0010      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 12          | 0.286   | 0.0002      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 13.2        | -1.402  | -0.0007     | -2.5 to 2.5 | Pass |
|        |        |        |         | -30         | 12          | 1.359   | 0.0007      | -2.5 to 2.5 | Pass |
|        |        |        |         | -20         | 12          | -0.372  | -0.0002     | -2.5 to 2.5 | Pass |
|        |        |        |         | -10         | 12          | 1.903   | 0.0010      | -2.5 to 2.5 | Pass |
|        |        |        |         | 0           | 12          | 2.346   | 0.0012      | -2.5 to 2.5 | Pass |
|        |        |        |         | 10          | 12          | 5.407   | 0.0029      | -2.5 to 2.5 | Pass |
|        |        |        |         | 30          | 12          | -0.057  | 0.0000      | -2.5 to 2.5 | Pass |
|        |        |        |         | 40          | 12          | 2.160   | 0.0011      | -2.5 to 2.5 | Pass |
|        | 50     | 12     | -0.286  | -0.0002     | -2.5 to 2.5 | Pass    |             |             |      |
|        | 1902.5 | 75     | 0       | 20          | 10.8        | 3.505   | 0.0018      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 12          | 1.416   | 0.0007      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 13.2        | 1.616   | 0.0008      | -2.5 to 2.5 | Pass |
|        |        |        |         | -30         | 12          | 3.119   | 0.0016      | -2.5 to 2.5 | Pass |
|        |        |        |         | -20         | 12          | 0.873   | 0.0005      | -2.5 to 2.5 | Pass |
|        |        |        |         | -10         | 12          | 1.745   | 0.0009      | -2.5 to 2.5 | Pass |
|        |        |        |         | 0           | 12          | 5.093   | 0.0027      | -2.5 to 2.5 | Pass |
|        |        |        |         | 10          | 12          | 3.018   | 0.0016      | -2.5 to 2.5 | Pass |
| 30     |        |        |         | 12          | 3.018       | 0.0016  | -2.5 to 2.5 | Pass        |      |
| 40     |        |        |         | 12          | -2.861      | -0.0015 | -2.5 to 2.5 | Pass        |      |
| 50     | 12     | -5.121 | -0.0027 | -2.5 to 2.5 | Pass        |         |             |             |      |
| 256QAM | 1857.5 | 75     | 0       | 20          | 10.8        | -1.044  | -0.0006     | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 12          | -3.190  | -0.0017     | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 13.2        | -2.761  | -0.0015     | -2.5 to 2.5 | Pass |
|        |        |        |         | -30         | 12          | -0.772  | -0.0004     | -2.5 to 2.5 | Pass |
|        |        |        |         | -20         | 12          | -0.858  | -0.0005     | -2.5 to 2.5 | Pass |
|        |        |        |         | -10         | 12          | -3.462  | -0.0019     | -2.5 to 2.5 | Pass |
|        |        |        |         | 0           | 12          | 0.100   | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |        |         | 10          | 12          | -5.679  | -0.0031     | -2.5 to 2.5 | Pass |
|        |        |        |         | 30          | 12          | -3.018  | -0.0016     | -2.5 to 2.5 | Pass |
|        |        |        |         | 40          | 12          | -2.017  | -0.0011     | -2.5 to 2.5 | Pass |
|        | 50     | 12     | -1.073  | -0.0006     | -2.5 to 2.5 | Pass    |             |             |      |
|        | 1880   | 75     | 0       | 20          | 10.8        | 4.163   | 0.0022      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 12          | -2.818  | -0.0015     | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 13.2        | 2.575   | 0.0014      | -2.5 to 2.5 | Pass |
|        |        |        |         | -30         | 12          | 1.316   | 0.0007      | -2.5 to 2.5 | Pass |
|        |        |        |         | -20         | 12          | 0.257   | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |        |         | -10         | 12          | 1.202   | 0.0006      | -2.5 to 2.5 | Pass |
|        |        |        |         | 0           | 12          | 0.801   | 0.0004      | -2.5 to 2.5 | Pass |
| 10     |        |        |         | 12          | -0.386      | -0.0002 | -2.5 to 2.5 | Pass        |      |
| 30     | 12     | 2.475  | 0.0013  | -2.5 to 2.5 | Pass        |         |             |             |      |
| 40     | 12     | -0.272 | -0.0001 | -2.5 to 2.5 | Pass        |         |             |             |      |



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|  |        |    |   |     |      |        |         |             |             |
|--|--------|----|---|-----|------|--------|---------|-------------|-------------|
|  |        |    |   | 50  | 12   | 0.000  | 0.0000  | -2.5 to 2.5 | Pass        |
|  | 1902.5 | 75 | 0 | 20  | 10.8 | -4.821 | -0.0025 | -2.5 to 2.5 | Pass        |
|  |        |    |   |     | 12   | -2.546 | -0.0013 | -2.5 to 2.5 | Pass        |
|  |        |    |   |     | 13.2 | -2.232 | -0.0012 | -2.5 to 2.5 | Pass        |
|  |        |    |   |     | -30  | 12     | -1.760  | -0.0009     | -2.5 to 2.5 |
|  |        |    |   | -20 | 12   | -2.561 | -0.0013 | -2.5 to 2.5 | Pass        |
|  |        |    |   | -10 | 12   | -3.262 | -0.0017 | -2.5 to 2.5 | Pass        |
|  |        |    |   | 0   | 12   | -2.589 | -0.0014 | -2.5 to 2.5 | Pass        |
|  |        |    |   | 10  | 12   | 5.050  | 0.0027  | -2.5 to 2.5 | Pass        |
|  |        |    |   | 30  | 12   | 3.848  | 0.0020  | -2.5 to 2.5 | Pass        |
|  |        |    |   | 40  | 12   | 3.619  | 0.0019  | -2.5 to 2.5 | Pass        |
|  |        |    |   | 50  | 12   | 0.916  | 0.0005  | -2.5 to 2.5 | Pass        |

## 1.6 B2\_20MHz

### 1.6.1 Test Result

| Band: 2 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1860            | 100           | 0      | 20         | 10.8          | -0.386           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 1.101            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 0.987            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -4.077           | -0.0022               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -0.415           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -3.319           | -0.0018               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 1.030            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 3.333            | 0.0018                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 1.345            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -3.762           | -0.0020               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | -1.745           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            | 1880            | 100           | 0      | 20         | 10.8          | -2.475           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -1.588           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -4.892           | -0.0026               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -1.030           | -0.0005               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -1.316           | -0.0007               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -4.077           | -0.0022               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -1.802           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -2.203           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | -5.178           | -0.0028               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -2.289           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | -0.558           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            | 1900            | 100           | 0      | 20         | 10.8          | 1.745            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 1.545            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 1.159            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 1.101            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 0.658            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -0.300           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 1.173            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -0.100           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 2.875            | 0.0015                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -0.029           | 0.0000                | -2.5 to 2.5 | Pass    |



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|       |      |     |   |     |      |        |         |             |      |
|-------|------|-----|---|-----|------|--------|---------|-------------|------|
| 16QAM | 1860 | 100 | 0 | 50  | 12   | -0.629 | -0.0003 | -2.5 to 2.5 | Pass |
|       |      |     |   | 20  | 10.8 | -5.236 | -0.0028 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 12   | -2.489 | -0.0013 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 13.2 | -2.146 | -0.0012 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 12   | 0.758  | 0.0004  | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 12   | -3.862 | -0.0021 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 12   | -3.490 | -0.0019 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 12   | -1.373 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 12   | -3.819 | -0.0021 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 12   | -3.791 | -0.0020 | -2.5 to 2.5 | Pass |
|       | 1880 | 100 | 0 | 40  | 12   | -4.091 | -0.0022 | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 12   | -6.108 | -0.0033 | -2.5 to 2.5 | Pass |
|       |      |     |   | 20  | 10.8 | -2.446 | -0.0013 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 12   | -3.190 | -0.0017 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 13.2 | -1.330 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 12   | -2.875 | -0.0015 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 12   | -3.877 | -0.0021 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 12   | -2.518 | -0.0013 | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 12   | -5.021 | -0.0027 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 12   | -5.693 | -0.0030 | -2.5 to 2.5 | Pass |
|       | 1900 | 100 | 0 | 30  | 12   | -5.393 | -0.0029 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 12   | -2.861 | -0.0015 | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 12   | -2.689 | -0.0014 | -2.5 to 2.5 | Pass |
|       |      |     |   | 20  | 10.8 | 1.659  | 0.0009  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 12   | 2.174  | 0.0011  | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 13.2 | 3.390  | 0.0018  | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 12   | -3.076 | -0.0016 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 12   | 1.974  | 0.0010  | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 12   | 1.130  | 0.0006  | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 12   | 1.388  | 0.0007  | -2.5 to 2.5 | Pass |
| 64QAM | 1860 | 100 | 0 | 10  | 12   | -1.760 | -0.0009 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 12   | 3.591  | 0.0019  | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 12   | 1.130  | 0.0006  | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 12   | 4.120  | 0.0022  | -2.5 to 2.5 | Pass |
|       |      |     |   | 20  | 10.8 | -2.446 | -0.0013 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 12   | -1.888 | -0.0010 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 13.2 | -4.635 | -0.0025 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 12   | -5.178 | -0.0028 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 12   | -2.389 | -0.0013 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 12   | -4.549 | -0.0024 | -2.5 to 2.5 | Pass |
|       | 1880 | 100 | 0 | 0   | 12   | -2.131 | -0.0011 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 12   | -0.315 | -0.0002 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 12   | -4.292 | -0.0023 | -2.5 to 2.5 | Pass |
|       |      |     |   | 40  | 12   | -3.161 | -0.0017 | -2.5 to 2.5 | Pass |
|       |      |     |   | 50  | 12   | -0.772 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |     |   | 20  | 10.8 | -0.658 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 12   | -1.831 | -0.0010 | -2.5 to 2.5 | Pass |
|       |      |     |   |     | 13.2 | -1.559 | -0.0008 | -2.5 to 2.5 | Pass |
|       |      |     |   | -30 | 12   | -2.761 | -0.0015 | -2.5 to 2.5 | Pass |
|       |      |     |   | -20 | 12   | -3.018 | -0.0016 | -2.5 to 2.5 | Pass |
|       |      |     |   | -10 | 12   | 0.801  | 0.0004  | -2.5 to 2.5 | Pass |
|       |      |     |   | 0   | 12   | -4.206 | -0.0022 | -2.5 to 2.5 | Pass |
|       |      |     |   | 10  | 12   | -0.257 | -0.0001 | -2.5 to 2.5 | Pass |
|       |      |     |   | 30  | 12   | 4.163  | 0.0022  | -2.5 to 2.5 | Pass |



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|        |      |     |   |     |      |        |         |             |      |
|--------|------|-----|---|-----|------|--------|---------|-------------|------|
|        | 1900 | 100 | 0 | 40  | 12   | -2.260 | -0.0012 | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 12   | -1.745 | -0.0009 | -2.5 to 2.5 | Pass |
|        |      |     |   | 20  | 10.8 | -0.801 | -0.0004 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 12   | 3.076  | 0.0016  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 13.2 | -1.202 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 12   | 2.933  | 0.0015  | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 12   | 5.565  | 0.0029  | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 12   | 2.804  | 0.0015  | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 12   | 3.033  | 0.0016  | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 12   | 4.721  | 0.0025  | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 12   | 3.462  | 0.0018  | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 12   | -0.415 | -0.0002 | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 12   | 3.448  | 0.0018  | -2.5 to 2.5 | Pass |
| 256QAM | 1860 | 100 | 0 | 20  | 10.8 | -3.219 | -0.0017 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 12   | -4.349 | -0.0023 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 13.2 | -2.947 | -0.0016 | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 12   | -4.992 | -0.0027 | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 12   | -5.336 | -0.0029 | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 12   | -4.148 | -0.0022 | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 12   | 0.043  | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 12   | 1.731  | 0.0009  | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 12   | 2.403  | 0.0013  | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 12   | 5.822  | 0.0031  | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 12   | 5.736  | 0.0031  | -2.5 to 2.5 | Pass |
|        | 1880 | 100 | 0 | 20  | 10.8 | 1.202  | 0.0006  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 12   | 0.730  | 0.0004  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 13.2 | -0.401 | -0.0002 | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 12   | 1.960  | 0.0010  | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 12   | -4.764 | -0.0025 | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 12   | -0.730 | -0.0004 | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 12   | -1.717 | -0.0009 | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 12   | -1.016 | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 12   | -3.548 | -0.0019 | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 12   | -4.220 | -0.0022 | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 12   | -1.616 | -0.0009 | -2.5 to 2.5 | Pass |
|        | 1900 | 100 | 0 | 20  | 10.8 | 5.021  | 0.0026  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 12   | 1.431  | 0.0008  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 13.2 | 4.520  | 0.0024  | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 12   | 4.420  | 0.0023  | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 12   | -0.329 | -0.0002 | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 12   | 4.220  | 0.0022  | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 12   | 2.260  | 0.0012  | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 12   | 4.764  | 0.0025  | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 12   | 5.264  | 0.0028  | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 12   | 1.044  | 0.0005  | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 12   | 5.794  | 0.0030  | -2.5 to 2.5 | Pass |



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## 2. Frequency Stability

### 2.1 B4\_1.4MHz

#### 2.1.1 Test Result

| Band: 4 / Bandwidth: 1.4MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 1710.7          | 6             | 0      | 20         | 10.8          | 2.646            | 0.0015                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | 1.760            | 0.0010                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -0.143           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | 2.947            | 0.0017                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | 5.207            | 0.0030                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | 2.317            | 0.0014                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | 8.354            | 0.0049                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 2.918            | 0.0017                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 1.445            | 0.0008                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | 2.046            | 0.0012                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 12            | 2.275            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             | 1732.5          | 6             | 0      | 20         | 10.8          | -4.649           | -0.0027               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -1.059           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -1.202           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | -3.333           | -0.0019               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | -3.119           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | -0.157           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | 0.143            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 2.217            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 1.988            | 0.0011                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | 1.202            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 12            | 5.894            | 0.0034                | -2.5 to 2.5 | Pass    |
|                             | 1754.3          | 6             | 0      | 20         | 10.8          | 4.692            | 0.0027                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | 2.933            | 0.0017                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | 0.644            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | 2.232            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | -3.219           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | 1.359            | 0.0008                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | 0.472            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 1.144            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 3.333            | 0.0019                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | -2.017           | -0.0011               | -2.5 to 2.5 | Pass    |
| 16QAM                       | 1710.7          | 6             | 0      | 20         | 10.8          | -0.629           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -1.059           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -1.173           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | 0.687            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | 1.101            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | 10.86            | 0.0019                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | 1.502            | 0.0009                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 2.117            | 0.0012                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 4.735            | 0.0028                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | 0.844            | 0.0005                | -2.5 to 2.5 | Pass    |



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|       |        |   |   |     |      |        |         |             |      |
|-------|--------|---|---|-----|------|--------|---------|-------------|------|
| 64QAM | 1732.5 | 6 | 0 | 50  | 12   | 1.059  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |   |   | 20  | 10.8 | 2.317  | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | 3.633  | 0.0021  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | -2.890 | -0.0017 | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | -0.486 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | 2.632  | 0.0015  | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | 3.390  | 0.0020  | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 12   | -4.420 | -0.0026 | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 12   | -2.675 | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 12   | -2.789 | -0.0016 | -2.5 to 2.5 | Pass |
|       | 1754.3 | 6 | 0 | 40  | 12   | -1.173 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | 0.916  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |   |   | 20  | 10.8 | 3.533  | 0.0020  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | 7.181  | 0.0041  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | 2.346  | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | 3.834  | 0.0022  | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | -1.874 | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | 3.119  | 0.0018  | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 12   | 3.319  | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 12   | -10.86 | -0.0019 | -2.5 to 2.5 | Pass |
| 64QAM | 1710.7 | 6 | 0 | 30  | 12   | -2.131 | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 12   | 2.475  | 0.0014  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | 0.558  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |   |   | 20  | 10.8 | 7.224  | 0.0042  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | -1.802 | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | 2.146  | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | 4.678  | 0.0027  | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | 2.961  | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | 0.100  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 12   | 9.856  | 0.0058  | -2.5 to 2.5 | Pass |
|       | 1732.5 | 6 | 0 | 10  | 12   | 5.450  | 0.0032  | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 12   | 5.422  | 0.0032  | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 12   | 0.873  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | 1.717  | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |   |   | 20  | 10.8 | -0.415 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | 1.473  | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | -0.801 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | -0.472 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | -5.822 | -0.0034 | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | -1.588 | -0.0009 | -2.5 to 2.5 | Pass |
| 64QAM | 1754.3 | 6 | 0 | 0   | 12   | -8.039 | -0.0046 | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 12   | -4.649 | -0.0027 | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 12   | -3.290 | -0.0019 | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 12   | 1.345  | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | -2.861 | -0.0017 | -2.5 to 2.5 | Pass |
|       |        |   |   | 20  | 10.8 | 2.933  | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | 2.017  | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | -0.415 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | -0.658 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | -0.143 | -0.0001 | -2.5 to 2.5 | Pass |
| 64QAM |        |   |   | -10 | 12   | 0.129  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 12   | -2.017 | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 12   | -1.831 | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 12   | -1.388 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |   |   |     |      |        |         |             |      |



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|        |        |       |        |             |             |         |             |             |      |
|--------|--------|-------|--------|-------------|-------------|---------|-------------|-------------|------|
|        |        |       |        | 40          | 12          | -1.173  | -0.0007     | -2.5 to 2.5 | Pass |
|        |        |       |        | 50          | 12          | -1.059  | -0.0006     | -2.5 to 2.5 | Pass |
|        |        |       |        |             |             |         |             |             |      |
| 256QAM | 1710.7 | 6     | 0      | 20          | 10.8        | 4.406   | 0.0026      | -2.5 to 2.5 | Pass |
|        |        |       |        |             | 12          | 4.306   | 0.0025      | -2.5 to 2.5 | Pass |
|        |        |       |        |             | 13.2        | 3.748   | 0.0022      | -2.5 to 2.5 | Pass |
|        |        |       |        | -30         | 12          | 4.005   | 0.0023      | -2.5 to 2.5 | Pass |
|        |        |       |        | -20         | 12          | 4.034   | 0.0024      | -2.5 to 2.5 | Pass |
|        |        |       |        | -10         | 12          | 0.730   | 0.0004      | -2.5 to 2.5 | Pass |
|        |        |       |        | 0           | 12          | 2.947   | 0.0017      | -2.5 to 2.5 | Pass |
|        |        |       |        | 10          | 12          | 3.490   | 0.0020      | -2.5 to 2.5 | Pass |
|        |        |       |        | 30          | 12          | 1.216   | 0.0007      | -2.5 to 2.5 | Pass |
|        |        |       |        | 40          | 12          | 3.591   | 0.0021      | -2.5 to 2.5 | Pass |
|        | 50     | 12    | -0.858 | -0.0005     | -2.5 to 2.5 | Pass    |             |             |      |
|        | 1732.5 | 6     | 0      | 20          | 10.8        | -5.479  | -0.0032     | -2.5 to 2.5 | Pass |
|        |        |       |        |             | 12          | 0.229   | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |       |        |             | 13.2        | -3.204  | -0.0018     | -2.5 to 2.5 | Pass |
|        |        |       |        | -30         | 12          | 0.844   | 0.0005      | -2.5 to 2.5 | Pass |
|        |        |       |        | -20         | 12          | -0.873  | -0.0005     | -2.5 to 2.5 | Pass |
|        |        |       |        | -10         | 12          | -0.315  | -0.0002     | -2.5 to 2.5 | Pass |
|        |        |       |        | 0           | 12          | -2.131  | -0.0012     | -2.5 to 2.5 | Pass |
|        |        |       |        | 10          | 12          | 0.186   | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |       |        | 30          | 12          | 0.129   | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |       |        | 40          | 12          | -2.890  | -0.0017     | -2.5 to 2.5 | Pass |
|        | 50     | 12    | -2.203 | -0.0013     | -2.5 to 2.5 | Pass    |             |             |      |
|        | 1754.3 | 6     | 0      | 20          | 10.8        | -2.232  | -0.0013     | -2.5 to 2.5 | Pass |
|        |        |       |        |             | 12          | 0.515   | 0.0003      | -2.5 to 2.5 | Pass |
|        |        |       |        |             | 13.2        | 2.146   | 0.0012      | -2.5 to 2.5 | Pass |
|        |        |       |        | -30         | 12          | 2.217   | 0.0013      | -2.5 to 2.5 | Pass |
|        |        |       |        | -20         | 12          | 13.25   | 0.0025      | -2.5 to 2.5 | Pass |
|        |        |       |        | -10         | 12          | -0.186  | -0.0001     | -2.5 to 2.5 | Pass |
|        |        |       |        | 0           | 12          | 2.189   | 0.0012      | -2.5 to 2.5 | Pass |
|        |        |       |        | 10          | 12          | 0.515   | 0.0003      | -2.5 to 2.5 | Pass |
| 30     |        |       |        | 12          | -0.415      | -0.0002 | -2.5 to 2.5 | Pass        |      |
| 40     |        |       |        | 12          | -4.249      | -0.0024 | -2.5 to 2.5 | Pass        |      |
| 50     | 12     | 0.401 | 0.0002 | -2.5 to 2.5 | Pass        |         |             |             |      |

## 2.2 B4 3MHz

### 2.2.1 Test Result

| Band: 4 / Bandwidth: 3MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 1711.5          | 15            | 0      | 20         | 10.8          | 5.236            | 0.0031                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | 0.186            | 0.0001                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | -2.460           | -0.0014               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | -0.572           | -0.0003               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | 2.847            | 0.0017                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | -2.875           | -0.0017               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 12            | 0.544            | 0.0003                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 12            | -3.076           | -0.0018               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 12            | -2.160           | -0.0013               | -2.5 to 2.5 | Pass    |



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|       |        |    |   |     |      |        |         |             |      |
|-------|--------|----|---|-----|------|--------|---------|-------------|------|
|       | 1732.5 | 15 | 0 | 40  | 12   | -0.815 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12   | -0.143 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | 20  | 10.8 | -1.431 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | -2.875 | -0.0017 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | 2.375  | 0.0014  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | -0.873 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | 1.030  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | 3.791  | 0.0022  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | 0.372  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | -2.403 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | 3.533  | 0.0020  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | 1.645  | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12   | 5.264  | 0.0030  | -2.5 to 2.5 | Pass |
|       | 1753.5 | 15 | 0 | 20  | 10.8 | 2.174  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | 0.343  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | -3.462 | -0.0020 | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | -1.631 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | -0.386 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | -2.575 | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | 1.245  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | -0.830 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | -1.302 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | -1.659 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12   | -2.375 | -0.0014 | -2.5 to 2.5 | Pass |
| 16QAM | 1711.5 | 15 | 0 | 20  | 10.8 | -0.858 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | -1.717 | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | 1.187  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | -3.576 | -0.0021 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | -1.988 | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | 1.731  | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | -0.215 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | -2.246 | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | 0.057  | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | -1.459 | -0.0009 | -2.5 to 2.5 | Pass |
|       | 1732.5 | 15 | 0 | 20  | 10.8 | -1.230 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | -0.343 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | 1.831  | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | -3.519 | -0.0020 | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | -1.259 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | -3.562 | -0.0021 | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | -3.734 | -0.0022 | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12   | -2.146 | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12   | -1.359 | -0.0008 | -2.5 to 2.5 | Pass |
|       | 1753.5 | 15 | 0 | 20  | 10.8 | 0.429  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12   | 2.403  | 0.0014  | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2 | 2.060  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12   | 1.917  | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12   | -4.263 | -0.0024 | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12   | 0.858  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12   | 2.332  | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12   | -3.018 | -0.0017 | -2.5 to 2.5 | Pass |



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|        |        |    |   |     |      |        |         |             |      |
|--------|--------|----|---|-----|------|--------|---------|-------------|------|
|        |        |    |   | 30  | 12   | 4.449  | 0.0025  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 5.965  | 0.0034  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -1.845 | -0.0011 | -2.5 to 2.5 | Pass |
| 64QAM  | 1711.5 | 15 | 0 | 20  | 10.8 | 0.629  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -1.016 | -0.0006 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 1.316  | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | -4.263 | -0.0025 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -0.300 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 0.286  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -2.789 | -0.0016 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 4.106  | 0.0024  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 4.992  | 0.0029  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -2.403 | -0.0014 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -0.515 | -0.0003 | -2.5 to 2.5 | Pass |
|        | 1732.5 | 15 | 0 | 20  | 10.8 | 0.858  | 0.0005  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 1.702  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | -3.948 | -0.0023 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | -2.360 | -0.0014 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -2.632 | -0.0015 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -1.187 | -0.0007 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -2.017 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 1.488  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | -1.388 | -0.0008 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 2.260  | 0.0013  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 1.359  | 0.0008  | -2.5 to 2.5 | Pass |
|        | 1753.5 | 15 | 0 | 20  | 10.8 | -0.558 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -2.260 | -0.0013 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | -0.730 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 2.604  | 0.0015  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -2.060 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -0.300 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -3.934 | -0.0022 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | -1.616 | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 0.129  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -2.747 | -0.0016 | -2.5 to 2.5 | Pass |
| 256QAM | 1711.5 | 15 | 0 | 20  | 10.8 | -1.116 | -0.0007 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -0.730 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | -0.587 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 0.143  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -6.294 | -0.0037 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 0.358  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 2.275  | 0.0013  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | -2.232 | -0.0013 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | -3.748 | -0.0022 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 0.443  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -2.761 | -0.0016 | -2.5 to 2.5 | Pass |
|        | 1732.5 | 15 | 0 | 20  | 10.8 | -1.731 | -0.0010 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -0.515 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 3.362  | 0.0019  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | -1.702 | -0.0010 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -5.364 | -0.0031 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -1.101 | -0.0006 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -0.501 | -0.0003 | -2.5 to 2.5 | Pass |



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|    |        |        |         |             |      |        |         |             |      |
|----|--------|--------|---------|-------------|------|--------|---------|-------------|------|
|    |        |        |         | 10          | 12   | 4.249  | 0.0025  | -2.5 to 2.5 | Pass |
|    |        |        |         | 30          | 12   | -2.089 | -0.0012 | -2.5 to 2.5 | Pass |
|    |        |        |         | 40          | 12   | 4.606  | 0.0027  | -2.5 to 2.5 | Pass |
|    |        |        |         | 50          | 12   | 0.772  | 0.0004  | -2.5 to 2.5 | Pass |
|    | 1753.5 | 15     | 0       | 20          | 10.8 | -2.017 | -0.0012 | -2.5 to 2.5 | Pass |
|    |        |        |         |             | 12   | 0.515  | 0.0003  | -2.5 to 2.5 | Pass |
|    |        |        |         |             | 13.2 | 0.372  | 0.0002  | -2.5 to 2.5 | Pass |
|    |        |        |         | -30         | 12   | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|    |        |        |         | -20         | 12   | 0.358  | 0.0002  | -2.5 to 2.5 | Pass |
|    |        |        |         | -10         | 12   | 1.974  | 0.0011  | -2.5 to 2.5 | Pass |
|    |        |        |         | 0           | 12   | 2.160  | 0.0012  | -2.5 to 2.5 | Pass |
|    |        |        |         | 10          | 12   | -0.029 | 0.0000  | -2.5 to 2.5 | Pass |
|    |        |        |         | 30          | 12   | -3.662 | -0.0021 | -2.5 to 2.5 | Pass |
|    |        |        |         | 40          | 12   | 13.25  | 0.0025  | -2.5 to 2.5 | Pass |
| 50 | 12     | -3.362 | -0.0019 | -2.5 to 2.5 | Pass |        |         |             |      |

### 2.3 B4 5MHz

### 2.3.1 Test Result

| Band: 4 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 1712.5          | 25            | 0      | 20         | 10.8          | -0.987           | -0.0006               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | 5.894            | 0.0034                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | 2.804            | 0.0016                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | -0.658           | -0.0004               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | -2.875           | -0.0017               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | 3.362            | 0.0020                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 12            | -1.359           | -0.0008               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 12            | 4.020            | 0.0023                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 12            | -1.216           | -0.0007               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 12            | 0.257            | 0.0002                | -2.5 to 2.5 | Pass    |
|                           | 50              | 12            | 1.559  | 0.0009     | -2.5 to 2.5   | Pass             |                       |             |         |
|                           | 1732.5          | 25            | 0      | 20         | 10.8          | 3.576            | 0.0021                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | 0.687            | 0.0004                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | 2.832            | 0.0016                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | -0.415           | -0.0002               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | 5.221            | 0.0030                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | 1.044            | 0.0006                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 12            | 3.891            | 0.0022                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 12            | -0.100           | -0.0001               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 12            | 2.847            | 0.0016                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 12            | 0.758            | 0.0004                | -2.5 to 2.5 | Pass    |
|                           | 50              | 12            | 0.887  | 0.0005     | -2.5 to 2.5   | Pass             |                       |             |         |
|                           | 1752.5          | 25            | 0      | 20         | 10.8          | -0.587           | -0.0003               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | -2.861           | -0.0016               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | -2.847           | -0.0016               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | -1.159           | -0.0007               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | -5.522           | -0.0032               | -2.5 to 2.5 | Pass    |
| -10                       |                 |               |        | 12         | -6.022        | -0.0034          | -2.5 to 2.5           | Pass        |         |
| 0                         |                 |               |        | 12         | 0.143         | 0.0001           | -2.5 to 2.5           | Pass        |         |



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|       |        |        |         |             |             |         |             |             |        |
|-------|--------|--------|---------|-------------|-------------|---------|-------------|-------------|--------|
|       |        |        |         | 10          | 12          | -0.629  | -0.0004     | -2.5 to 2.5 | Pass   |
|       |        |        |         | 30          | 12          | -0.987  | -0.0006     | -2.5 to 2.5 | Pass   |
|       |        |        |         | 40          | 12          | -4.520  | -0.0026     | -2.5 to 2.5 | Pass   |
|       |        |        |         | 50          | 12          | -5.622  | -0.0032     | -2.5 to 2.5 | Pass   |
| 16QAM | 1712.5 | 25     | 0       | 20          | 10.8        | 0.744   | 0.0004      | -2.5 to 2.5 | Pass   |
|       |        |        |         |             | 12          | -1.144  | -0.0007     | -2.5 to 2.5 | Pass   |
|       |        |        |         |             | 13.2        | 0.458   | 0.0003      | -2.5 to 2.5 | Pass   |
|       |        |        |         | -30         | 12          | 0.200   | 0.0001      | -2.5 to 2.5 | Pass   |
|       |        |        |         | -20         | 12          | 2.875   | 0.0017      | -2.5 to 2.5 | Pass   |
|       |        |        |         | -10         | 12          | 0.429   | 0.0003      | -2.5 to 2.5 | Pass   |
|       |        |        |         | 0           | 12          | -1.116  | -0.0007     | -2.5 to 2.5 | Pass   |
|       |        |        |         | 10          | 12          | 0.515   | 0.0003      | -2.5 to 2.5 | Pass   |
|       |        |        |         | 30          | 12          | -2.160  | -0.0013     | -2.5 to 2.5 | Pass   |
|       |        |        |         | 40          | 12          | -0.830  | -0.0005     | -2.5 to 2.5 | Pass   |
|       |        |        |         | 50          | 12          | -1.402  | -0.0008     | -2.5 to 2.5 | Pass   |
|       |        |        |         | 1732.5      | 25          | 0       | 20          | 10.8        | 0.057  |
|       | 12     | 1.674  | 0.0010  |             |             |         |             | -2.5 to 2.5 | Pass   |
|       | 13.2   | 0.787  | 0.0005  |             |             |         |             | -2.5 to 2.5 | Pass   |
|       | -30    | 12     | 2.260   |             |             |         | 0.0013      | -2.5 to 2.5 | Pass   |
|       | -20    | 12     | 1.831   |             |             |         | 0.0011      | -2.5 to 2.5 | Pass   |
|       | -10    | 12     | 1.717   |             |             |         | 0.0010      | -2.5 to 2.5 | Pass   |
|       | 0      | 12     | 0.572   |             |             |         | 0.0003      | -2.5 to 2.5 | Pass   |
|       | 10     | 12     | -1.845  |             |             |         | -0.0011     | -2.5 to 2.5 | Pass   |
|       | 30     | 12     | -1.016  |             |             |         | -0.0006     | -2.5 to 2.5 | Pass   |
|       | 40     | 12     | -0.386  |             |             |         | -0.0002     | -2.5 to 2.5 | Pass   |
|       | 50     | 12     | 1.216   |             |             |         | 0.0007      | -2.5 to 2.5 | Pass   |
|       | 1752.5 | 25     | 0       |             |             |         | 20          | 10.8        | -1.187 |
|       |        |        |         | 12          | 0.172       | 0.0001  |             | -2.5 to 2.5 | Pass   |
|       |        |        |         | 13.2        | -2.418      | -0.0014 |             | -2.5 to 2.5 | Pass   |
|       |        |        |         | -30         | 12          | -3.648  | -0.0021     | -2.5 to 2.5 | Pass   |
|       |        |        |         | -20         | 12          | -3.233  | -0.0018     | -2.5 to 2.5 | Pass   |
|       |        |        |         | -10         | 12          | -0.830  | -0.0005     | -2.5 to 2.5 | Pass   |
| 0     |        |        |         | 12          | -3.390      | -0.0019 | -2.5 to 2.5 | Pass        |        |
| 10    |        |        |         | 12          | 1.187       | 0.0007  | -2.5 to 2.5 | Pass        |        |
| 30    |        |        |         | 12          | 3.505       | 0.0020  | -2.5 to 2.5 | Pass        |        |
| 40    |        |        |         | 12          | 3.033       | 0.0017  | -2.5 to 2.5 | Pass        |        |
| 50    |        |        |         | 12          | 4.807       | 0.0027  | -2.5 to 2.5 | Pass        |        |
| 64QAM |        |        |         | 1712.5      | 25          | 0       | 20          | 10.8        | 0.615  |
|       | 12     | -1.731 | -0.0010 |             |             |         |             | -2.5 to 2.5 | Pass   |
|       | 13.2   | 2.432  | 0.0014  |             |             |         |             | -2.5 to 2.5 | Pass   |
|       | -30    | 12     | 0.472   |             |             |         | 0.0003      | -2.5 to 2.5 | Pass   |
|       | -20    | 12     | 0.730   |             |             |         | 0.0004      | -2.5 to 2.5 | Pass   |
|       | -10    | 12     | 3.047   |             |             |         | 0.0018      | -2.5 to 2.5 | Pass   |
|       | 0      | 12     | 3.405   |             |             |         | 0.0020      | -2.5 to 2.5 | Pass   |
|       | 10     | 12     | 0.587   |             |             |         | 0.0003      | -2.5 to 2.5 | Pass   |
|       | 30     | 12     | 2.031   |             |             |         | 0.0012      | -2.5 to 2.5 | Pass   |
|       | 40     | 12     | -2.017  |             |             |         | -0.0012     | -2.5 to 2.5 | Pass   |
|       | 50     | 12     | 1.101   |             |             |         | 0.0006      | -2.5 to 2.5 | Pass   |
|       | 1732.5 | 25     | 0       |             |             |         | 20          | 10.8        | 3.533  |
|       |        |        |         | 12          | 0.029       | 0.0000  |             | -2.5 to 2.5 | Pass   |
|       |        |        |         | 13.2        | -2.861      | -0.0017 |             | -2.5 to 2.5 | Pass   |
|       |        |        |         | -30         | 12          | 1.144   | 0.0007      | -2.5 to 2.5 | Pass   |
|       | -20    | 12     | 1.373   | 0.0008      | -2.5 to 2.5 | Pass    |             |             |        |
| -10   | 12     | -3.347 | -0.0019 | -2.5 to 2.5 | Pass        |         |             |             |        |



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|        |        |    |   |     |      |        |         |             |      |
|--------|--------|----|---|-----|------|--------|---------|-------------|------|
|        |        |    |   | 0   | 12   | -3.662 | -0.0021 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | -1.760 | -0.0010 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | -2.074 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -2.904 | -0.0017 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -3.362 | -0.0019 | -2.5 to 2.5 | Pass |
|        | 1752.5 | 25 | 0 | 20  | 10.8 | -0.286 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 1.431  | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | -0.343 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 3.405  | 0.0019  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 4.363  | 0.0025  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 0.701  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 4.292  | 0.0024  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 2.518  | 0.0014  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 4.792  | 0.0027  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 0.129  | 0.0001  | -2.5 to 2.5 | Pass |
|        | 1712.5 | 25 | 0 | 20  | 10.8 | -0.744 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -1.230 | -0.0007 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 4.292  | 0.0025  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 1.402  | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 4.592  | 0.0027  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -0.072 | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 2.532  | 0.0015  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 0.358  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | -1.044 | -0.0006 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -0.157 | -0.0001 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -0.157 | -0.0001 | -2.5 to 2.5 | Pass |
|        | 1732.5 | 25 | 0 | 20  | 10.8 | 0.601  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 2.532  | 0.0015  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | -2.289 | -0.0013 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | -3.920 | -0.0023 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 1.817  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -0.272 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -1.616 | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 1.216  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | -4.148 | -0.0024 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -0.715 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -2.561 | -0.0015 | -2.5 to 2.5 | Pass |
| 256QAM | 1752.5 | 25 | 0 | 20  | 10.8 | 0.744  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 3.047  | 0.0017  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 1.831  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 0.916  | 0.0005  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 2.003  | 0.0011  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 0.930  | 0.0005  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 6.638  | 0.0038  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 3.576  | 0.0020  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 5.121  | 0.0029  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 2.031  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 3.018  | 0.0017  | -2.5 to 2.5 | Pass |

## 2.4 B4\_10MHz



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Test Report Form Version: Rev01

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## 2.4.1 Test Result

| Band: 4 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1715            | 50            | 0      | 20         | 10.8          | 1.559            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -1.373           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 1.974            | 0.0012                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 0.801            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 1.860            | 0.0011                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 1.802            | 0.0011                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -0.272           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -2.131           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 1.245            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | 3.319            | 0.0019                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | 4.950            | 0.0029                | -2.5 to 2.5 | Pass    |
|                            | 1732.5          | 50            | 0      | 20         | 10.8          | -1.774           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 0.129            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 1.516            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 1.230            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -0.615           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -0.644           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -0.658           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 2.875            | 0.0017                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | -4.048           | -0.0023               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | 0.858            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | -0.772           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            | 1750            | 50            | 0      | 20         | 10.8          | 1.044            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 2.432            | 0.0014                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 3.147            | 0.0018                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 0.958            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 2.146            | 0.0012                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 6.495            | 0.0037                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 1.588            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 3.777            | 0.0022                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 1.245            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | 4.578            | 0.0026                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | 3.591            | 0.0021                | -2.5 to 2.5 | Pass    |
| 16QAM                      | 1715            | 50            | 0      | 20         | 10.8          | 1.502            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -1.631           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 2.503            | 0.0015                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 1.631            | 0.0010                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 0.715            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 1.173            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 4.721            | 0.0028                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -0.758           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 2.475            | 0.0014                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -1.674           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | 1.230            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            | 1732.5          | 50            | 0      | 20         | 10.8          | 1.402            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 0.873            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 1.631            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -0.701           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 2.117            | 0.0012                | -2.5 to 2.5 | Pass    |



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|        |        |         |             |        |       |        |             |             |        |         |             |             |      |
|--------|--------|---------|-------------|--------|-------|--------|-------------|-------------|--------|---------|-------------|-------------|------|
|        |        |         |             | -10    | 12    | -0.300 | -0.0002     | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | 0      | 12    | 1.001  | 0.0006      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | 10     | 12    | 0.086  | 0.0000      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | 30     | 12    | 1.874  | 0.0011      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | 40     | 12    | 2.532  | 0.0015      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | 50     | 12    | 1.330  | 0.0008      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        | 1750   | 50      | 0           | 20     | 10.8  | 6.523  | 0.0037      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             |        | 12    | 6.108  | 0.0035      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             |        | 13.2  | 5.865  | 0.0034      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | -30    | 12    | 4.506  | 0.0026      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | -20    | 12    | 1.359  | 0.0008      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | -10    | 12    | 6.123  | 0.0035      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | 0      | 12    | 3.219  | 0.0018      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | 10     | 12    | 4.034  | 0.0023      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | 30     | 12    | 3.119  | 0.0018      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | 40     | 12    | 3.076  | 0.0018      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | 50     | 12    | 7.553  | 0.0043      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         |             | 64QAM  | 1715  | 50     | 0           | 20          | 10.8   | 0.043   | 0.0000      | -2.5 to 2.5 | Pass |
|        |        |         |             |        |       |        |             |             | 12     | -1.273  | -0.0007     | -2.5 to 2.5 | Pass |
| 13.2   | -0.143 | -0.0001 | -2.5 to 2.5 |        |       |        |             |             | Pass   |         |             |             |      |
| -30    | 12     | 4.034   | 0.0024      |        |       |        |             | -2.5 to 2.5 | Pass   |         |             |             |      |
| -20    | 12     | 3.605   | 0.0021      |        |       |        |             | -2.5 to 2.5 | Pass   |         |             |             |      |
| -10    | 12     | 0.401   | 0.0002      |        |       |        |             | -2.5 to 2.5 | Pass   |         |             |             |      |
| 0      | 12     | 3.362   | 0.0020      |        |       |        |             | -2.5 to 2.5 | Pass   |         |             |             |      |
| 10     | 12     | 3.691   | 0.0022      |        |       |        |             | -2.5 to 2.5 | Pass   |         |             |             |      |
| 30     | 12     | 3.777   | 0.0022      |        |       |        |             | -2.5 to 2.5 | Pass   |         |             |             |      |
| 40     | 12     | -0.501  | -0.0003     |        |       |        |             | -2.5 to 2.5 | Pass   |         |             |             |      |
| 50     | 12     | 2.089   | 0.0012      |        |       |        |             | -2.5 to 2.5 | Pass   |         |             |             |      |
| 1732.5 | 50     | 0       | 20          |        |       |        |             | 10.8        | -0.100 | -0.0001 | -2.5 to 2.5 | Pass        |      |
|        |        |         |             |        |       |        |             | 12          | -0.114 | -0.0001 | -2.5 to 2.5 | Pass        |      |
|        |        |         |             |        | 13.2  | 1.173  | 0.0007      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         | -30         |        | 12    | -1.860 | -0.0011     | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         | -20         |        | 12    | 0.687  | 0.0004      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         | -10         |        | 12    | 1.159  | 0.0007      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         | 0           |        | 12    | 0.114  | 0.0001      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         | 10          |        | 12    | 3.862  | 0.0022      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         | 30          |        | 12    | -0.558 | -0.0003     | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         | 40          |        | 12    | 2.761  | 0.0016      | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         | 50          |        | 12    | -2.704 | -0.0016     | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         | 1750        |        | 50    | 0      | 20          | 10.8        | 3.633  | 0.0021  | -2.5 to 2.5 | Pass        |      |
|        |        |         |             |        |       |        |             | 12          | 3.347  | 0.0019  | -2.5 to 2.5 | Pass        |      |
|        |        |         |             |        |       |        |             | 13.2        | 6.795  | 0.0039  | -2.5 to 2.5 | Pass        |      |
|        |        |         |             |        |       |        | -30         | 12          | 4.735  | 0.0027  | -2.5 to 2.5 | Pass        |      |
| -20    | 12     | 5.064   |             |        |       |        | 0.0029      | -2.5 to 2.5 | Pass   |         |             |             |      |
| -10    | 12     | 7.353   |             |        |       |        | 0.0042      | -2.5 to 2.5 | Pass   |         |             |             |      |
| 0      | 12     | 7.195   |             | 0.0041 |       |        | -2.5 to 2.5 | Pass        |        |         |             |             |      |
| 10     | 12     | 5.407   |             | 0.0031 |       |        | -2.5 to 2.5 | Pass        |        |         |             |             |      |
| 30     | 12     | 7.367   |             | 0.0042 |       |        | -2.5 to 2.5 | Pass        |        |         |             |             |      |
| 40     | 12     | 7.210   |             | 0.0041 |       |        | -2.5 to 2.5 | Pass        |        |         |             |             |      |
| 50     | 12     | 7.138   |             | 0.0041 |       |        | -2.5 to 2.5 | Pass        |        |         |             |             |      |
| 256QAM | 1715   | 50      |             | 0      |       |        | 20          | 10.8        | 2.403  | 0.0014  | -2.5 to 2.5 | Pass        |      |
|        |        |         | 12          |        | 4.563 | 0.0027 |             | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         | 13.2        |        | 3.161 | 0.0018 |             | -2.5 to 2.5 | Pass   |         |             |             |      |
|        |        |         | -30         |        | 12    | 2.518  | 0.0015      | -2.5 to 2.5 | Pass   |         |             |             |      |



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|  |        |    |   |     |      |        |         |             |      |
|--|--------|----|---|-----|------|--------|---------|-------------|------|
|  |        |    |   | -20 | 12   | 2.017  | 0.0012  | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 12   | 1.116  | 0.0007  | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 12   | 3.576  | 0.0021  | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 12   | 3.076  | 0.0018  | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 12   | 1.688  | 0.0010  | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 12   | 2.232  | 0.0013  | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 12   | 3.033  | 0.0018  | -2.5 to 2.5 | Pass |
|  | 1732.5 | 50 | 0 | 20  | 10.8 | 0.315  | 0.0002  | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 12   | -2.904 | -0.0017 | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 13.2 | 2.174  | 0.0013  | -2.5 to 2.5 | Pass |
|  |        |    |   | -30 | 12   | -0.458 | -0.0003 | -2.5 to 2.5 | Pass |
|  |        |    |   | -20 | 12   | -2.460 | -0.0014 | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 12   | -2.131 | -0.0012 | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 12   | -1.774 | -0.0010 | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 12   | -3.104 | -0.0018 | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 12   | -1.788 | -0.0010 | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 12   | -1.445 | -0.0008 | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 12   | -1.316 | -0.0008 | -2.5 to 2.5 | Pass |
|  | 1750   | 50 | 0 | 20  | 10.8 | 3.662  | 0.0021  | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 12   | 2.632  | 0.0015  | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 13.2 | 3.719  | 0.0021  | -2.5 to 2.5 | Pass |
|  |        |    |   | -30 | 12   | 6.151  | 0.0035  | -2.5 to 2.5 | Pass |
|  |        |    |   | -20 | 12   | 2.031  | 0.0012  | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 12   | 2.704  | 0.0015  | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 12   | 4.492  | 0.0026  | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 12   | 3.862  | 0.0022  | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 12   | 3.290  | 0.0019  | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 12   | 4.535  | 0.0026  | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 12   | 1.931  | 0.0011  | -2.5 to 2.5 | Pass |

## 2.5 B4\_15MHz

### 2.5.1 Test Result

| Band: 4 / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1717.5          | 75            | 0      | 20         | 10.8          | 4.735            | 0.0028                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 2.203            | 0.0013                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 3.476            | 0.0020                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 2.375            | 0.0014                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 3.633            | 0.0021                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 1.488            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 1.874            | 0.0011                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 2.017            | 0.0012                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 1.860            | 0.0011                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | 3.462            | 0.0020                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | 5.336            | 0.0031                | -2.5 to 2.5 | Pass    |
|                            | 1732.5          | 75            | 0      | 20         | 10.8          | -0.901           | -0.0005               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -0.644           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 5.021            | 0.0029                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 2.575            | 0.0015                | -2.5 to 2.5 | Pass    |



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|       |        |    |   |     |        |         |             |             |      |
|-------|--------|----|---|-----|--------|---------|-------------|-------------|------|
|       |        |    |   | -20 | 12     | 2.503   | 0.0014      | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12     | -0.286  | -0.0002     | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12     | -0.958  | -0.0006     | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12     | 1.416   | 0.0008      | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12     | -3.633  | -0.0021     | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12     | -2.503  | -0.0014     | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12     | 2.589   | 0.0015      | -2.5 to 2.5 | Pass |
|       | 1747.5 | 75 | 0 | 20  | 10.8   | 4.191   | 0.0024      | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12     | 2.432   | 0.0014      | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2   | 1.760   | 0.0010      | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12     | 6.752   | 0.0039      | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12     | 2.861   | 0.0016      | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12     | 6.452   | 0.0037      | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12     | -0.787  | -0.0005     | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12     | -1.116  | -0.0006     | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12     | -0.944  | -0.0005     | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12     | -6.223  | -0.0036     | -2.5 to 2.5 | Pass |
|       |        |    |   | 50  | 12     | -2.418  | -0.0014     | -2.5 to 2.5 | Pass |
| 16QAM | 1717.5 | 75 | 0 | 20  | 10.8   | 2.017   | 0.0012      | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12     | 3.462   | 0.0020      | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2   | 3.347   | 0.0019      | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12     | 3.920   | 0.0023      | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12     | 5.879   | 0.0034      | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12     | 3.204   | 0.0019      | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12     | 4.163   | 0.0024      | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12     | 2.489   | 0.0014      | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12     | 2.689   | 0.0016      | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12     | 2.604   | 0.0015      | -2.5 to 2.5 | Pass |
|       | 1732.5 | 75 | 0 | 20  | 10.8   | 1.645   | 0.0009      | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12     | -0.801  | -0.0005     | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2   | 0.458   | 0.0003      | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12     | 1.488   | 0.0009      | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12     | 0.558   | 0.0003      | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12     | -0.114  | -0.0001     | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12     | 1.545   | 0.0009      | -2.5 to 2.5 | Pass |
|       |        |    |   | 10  | 12     | -2.990  | -0.0017     | -2.5 to 2.5 | Pass |
|       |        |    |   | 30  | 12     | -1.087  | -0.0006     | -2.5 to 2.5 | Pass |
|       |        |    |   | 40  | 12     | 1.545   | 0.0009      | -2.5 to 2.5 | Pass |
|       | 1747.5 | 75 | 0 | 20  | 10.8   | 1.388   | 0.0008      | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12     | -0.200  | -0.0001     | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2   | -1.130  | -0.0006     | -2.5 to 2.5 | Pass |
|       |        |    |   | -30 | 12     | 0.715   | 0.0004      | -2.5 to 2.5 | Pass |
|       |        |    |   | -20 | 12     | -0.558  | -0.0003     | -2.5 to 2.5 | Pass |
|       |        |    |   | -10 | 12     | 1.202   | 0.0007      | -2.5 to 2.5 | Pass |
|       |        |    |   | 0   | 12     | -0.572  | -0.0003     | -2.5 to 2.5 | Pass |
| 10    |        |    |   | 12  | -1.760 | -0.0010 | -2.5 to 2.5 | Pass        |      |
| 30    |        |    |   | 12  | 2.818  | 0.0016  | -2.5 to 2.5 | Pass        |      |
| 40    |        |    |   | 12  | 3.076  | 0.0018  | -2.5 to 2.5 | Pass        |      |
| 64QAM | 1717.5 | 75 | 0 | 20  | 10.8   | 2.203   | 0.0013      | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 12     | 4.535   | 0.0026      | -2.5 to 2.5 | Pass |
|       |        |    |   |     | 13.2   | 3.891   | 0.0023      | -2.5 to 2.5 | Pass |



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|        |        |    |   |     |      |        |         |             |      |
|--------|--------|----|---|-----|------|--------|---------|-------------|------|
| 256QAM | 1732.5 | 75 | 0 | -30 | 12   | 2.017  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 3.576  | 0.0021  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 3.862  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 3.319  | 0.0019  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 1.974  | 0.0011  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 1.817  | 0.0011  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 0.100  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 3.462  | 0.0020  | -2.5 to 2.5 | Pass |
|        |        |    |   | 20  | 10.8 | -0.386 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 1.488  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 0.472  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 0.343  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 0.157  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 0.072  | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -0.544 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 1.316  | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 0.601  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -0.615 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 0.429  | 0.0002  | -2.5 to 2.5 | Pass |
|        | 1747.5 | 75 | 0 | 20  | 10.8 | 0.286  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 1.960  | 0.0011  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 3.047  | 0.0017  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 2.403  | 0.0014  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -1.631 | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 1.960  | 0.0011  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 4.106  | 0.0023  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 2.375  | 0.0014  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 3.777  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 1.960  | 0.0011  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 1.616  | 0.0009  | -2.5 to 2.5 | Pass |
|        | 1717.5 | 75 | 0 | 20  | 10.8 | 0.458  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 3.777  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 3.161  | 0.0018  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 0.358  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -0.129 | -0.0001 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 4.077  | 0.0024  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 3.161  | 0.0018  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 3.791  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | -0.272 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 3.648  | 0.0021  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 1.502  | 0.0009  | -2.5 to 2.5 | Pass |
|        | 1732.5 | 75 | 0 | 20  | 10.8 | -0.215 | -0.0001 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 0.815  | 0.0005  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 0.830  | 0.0005  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 1.831  | 0.0011  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -1.960 | -0.0011 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -1.030 | -0.0006 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -0.587 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 0.186  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | -2.103 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -0.343 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -0.443 | -0.0003 | -2.5 to 2.5 | Pass |
|        | 1747.5 | 75 | 0 | 20  | 10.8 | 1.273  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 3.390  | 0.0019  | -2.5 to 2.5 | Pass |



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|  |  |  |     |      |       |        |             |      |
|--|--|--|-----|------|-------|--------|-------------|------|
|  |  |  |     | 13.2 | 4.063 | 0.0023 | -2.5 to 2.5 | Pass |
|  |  |  | -30 | 12   | 1.688 | 0.0010 | -2.5 to 2.5 | Pass |
|  |  |  | -20 | 12   | 4.048 | 0.0023 | -2.5 to 2.5 | Pass |
|  |  |  | -10 | 12   | 4.263 | 0.0024 | -2.5 to 2.5 | Pass |
|  |  |  | 0   | 12   | 6.380 | 0.0037 | -2.5 to 2.5 | Pass |
|  |  |  | 10  | 12   | 3.033 | 0.0017 | -2.5 to 2.5 | Pass |
|  |  |  | 30  | 12   | 2.632 | 0.0015 | -2.5 to 2.5 | Pass |
|  |  |  | 40  | 12   | 1.445 | 0.0008 | -2.5 to 2.5 | Pass |
|  |  |  | 50  | 12   | 2.389 | 0.0014 | -2.5 to 2.5 | Pass |

## 2.6 B4\_20MHz

### 2.6.1 Test Result

| Band: 4 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1720            | 100           | 0      | 20         | 10.8          | -5.751           | -0.0033               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -2.117           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -3.633           | -0.0021               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -2.103           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 0.129            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -0.873           | -0.0005               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -3.519           | -0.0020               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -1.030           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | -3.691           | -0.0021               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -1.373           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | -1.817           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            | 1732.5          | 100           | 0      | 20         | 10.8          | 1.001            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -1.445           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -0.100           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -0.830           | -0.0005               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -1.674           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 0.701            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 0.658            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -0.544           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 0.844            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -0.157           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | -1.674           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            | 1745            | 100           | 0      | 20         | 10.8          | 5.794            | 0.0033                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 2.761            | 0.0016                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 6.437            | 0.0037                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -0.486           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 5.550            | 0.0032                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 5.765            | 0.0033                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 3.076            | 0.0018                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 2.704            | 0.0015                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 3.777            | 0.0022                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | 2.203            | 0.0013                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | 3.576            | 0.0020                | -2.5 to 2.5 | Pass    |
| 16QAM                      | 1720            | 100           | 0      | 20         | 10.8          | -3.605           | -0.0021               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -1.030           | -0.0006               | -2.5 to 2.5 | Pass    |



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|       |        |     |   |     |      |        |         |             |      |
|-------|--------|-----|---|-----|------|--------|---------|-------------|------|
| 64QAM |        |     |   |     | 13.2 | 1.359  | 0.0008  | -2.5 to 2.5 | Pass |
|       |        |     |   | -30 | 12   | 2.646  | 0.0015  | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 12   | -0.787 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 12   | 1.802  | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 12   | -4.721 | -0.0027 | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 12   | -1.059 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 12   | -1.087 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 12   | -1.903 | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 12   | -2.532 | -0.0015 | -2.5 to 2.5 | Pass |
|       | 1732.5 | 100 | 0 | 20  | 10.8 | 0.186  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 12   | -0.243 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 13.2 | -0.114 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |     |   | -30 | 12   | -0.987 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 12   | 0.887  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 12   | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 12   | -1.116 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 12   | -0.114 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 12   | -0.558 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 12   | 4.077  | 0.0024  | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 12   | 2.074  | 0.0012  | -2.5 to 2.5 | Pass |
|       | 1745   | 100 | 0 | 20  | 10.8 | 3.262  | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 12   | 2.189  | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 13.2 | 2.103  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |     |   | -30 | 12   | 0.944  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 12   | 1.616  | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 12   | -0.143 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 12   | -0.687 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 12   | 0.415  | 0.0002  | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 12   | 1.702  | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 12   | 3.119  | 0.0018  | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 12   | -0.286 | -0.0002 | -2.5 to 2.5 | Pass |
|       | 1720   | 100 | 0 | 20  | 10.8 | -1.431 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 12   | -1.845 | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 13.2 | -0.601 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |     |   | -30 | 12   | -3.233 | -0.0019 | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 12   | 0.901  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 12   | -0.987 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 12   | 0.443  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 12   | 0.472  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 12   | -4.463 | -0.0026 | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 12   | -1.116 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 12   | -0.958 | -0.0006 | -2.5 to 2.5 | Pass |
|       | 1732.5 | 100 | 0 | 20  | 10.8 | 1.588  | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 12   | -2.089 | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 13.2 | -2.232 | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |     |   | -30 | 12   | 2.103  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 12   | 1.745  | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 12   | -3.104 | -0.0018 | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 12   | 2.003  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 12   | -0.286 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 12   | 1.974  | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 12   | 2.618  | 0.0015  | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 12   | -1.931 | -0.0011 | -2.5 to 2.5 | Pass |
|       | 1745   | 100 | 0 | 20  | 10.8 | 0.358  | 0.0002  | -2.5 to 2.5 | Pass |



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|        |        |     |        |         |             |         |             |             |      |
|--------|--------|-----|--------|---------|-------------|---------|-------------|-------------|------|
|        |        |     |        |         | 12          | -1.116  | -0.0006     | -2.5 to 2.5 | Pass |
|        |        |     |        |         | 13.2        | -0.329  | -0.0002     | -2.5 to 2.5 | Pass |
|        |        |     |        | -30     | 12          | -1.202  | -0.0007     | -2.5 to 2.5 | Pass |
|        |        |     |        | -20     | 12          | -2.303  | -0.0013     | -2.5 to 2.5 | Pass |
|        |        |     |        | -10     | 12          | -2.775  | -0.0016     | -2.5 to 2.5 | Pass |
|        |        |     |        | 0       | 12          | -3.161  | -0.0018     | -2.5 to 2.5 | Pass |
|        |        |     |        | 10      | 12          | 0.687   | 0.0004      | -2.5 to 2.5 | Pass |
|        |        |     |        | 30      | 12          | -1.631  | -0.0009     | -2.5 to 2.5 | Pass |
|        |        |     |        | 40      | 12          | -1.144  | -0.0007     | -2.5 to 2.5 | Pass |
|        |        |     |        | 50      | 12          | -3.204  | -0.0018     | -2.5 to 2.5 | Pass |
| 256QAM | 1720   | 100 | 0      | 20      | 10.8        | -0.515  | -0.0003     | -2.5 to 2.5 | Pass |
|        |        |     |        |         | 12          | -3.877  | -0.0023     | -2.5 to 2.5 | Pass |
|        |        |     |        |         | 13.2        | -0.801  | -0.0005     | -2.5 to 2.5 | Pass |
|        |        |     |        | -30     | 12          | 0.358   | 0.0002      | -2.5 to 2.5 | Pass |
|        |        |     |        | -20     | 12          | -0.644  | -0.0004     | -2.5 to 2.5 | Pass |
|        |        |     |        | -10     | 12          | -0.043  | 0.0000      | -2.5 to 2.5 | Pass |
|        |        |     |        | 0       | 12          | 0.458   | 0.0003      | -2.5 to 2.5 | Pass |
|        |        |     |        | 10      | 12          | 0.386   | 0.0002      | -2.5 to 2.5 | Pass |
|        |        |     |        | 30      | 12          | 3.676   | 0.0021      | -2.5 to 2.5 | Pass |
|        |        |     |        | 40      | 12          | 5.507   | 0.0032      | -2.5 to 2.5 | Pass |
|        | 50     | 12  | 4.635  | 0.0027  | -2.5 to 2.5 | Pass    |             |             |      |
|        | 1732.5 | 100 | 0      | 20      | 10.8        | -0.072  | 0.0000      | -2.5 to 2.5 | Pass |
|        |        |     |        |         | 12          | 0.200   | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |     |        |         | 13.2        | -0.100  | -0.0001     | -2.5 to 2.5 | Pass |
|        |        |     |        | -30     | 12          | 0.172   | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |     |        | -20     | 12          | -3.462  | -0.0020     | -2.5 to 2.5 | Pass |
|        |        |     |        | -10     | 12          | -0.472  | -0.0003     | -2.5 to 2.5 | Pass |
|        |        |     |        | 0       | 12          | 0.415   | 0.0002      | -2.5 to 2.5 | Pass |
|        |        |     |        | 10      | 12          | 1.059   | 0.0006      | -2.5 to 2.5 | Pass |
|        |        |     |        | 30      | 12          | 1.631   | 0.0009      | -2.5 to 2.5 | Pass |
|        |        |     |        | 40      | 12          | 0.329   | 0.0002      | -2.5 to 2.5 | Pass |
|        | 50     | 12  | -2.189 | -0.0013 | -2.5 to 2.5 | Pass    |             |             |      |
|        | 1745   | 100 | 0      | 20      | 10.8        | 0.272   | 0.0002      | -2.5 to 2.5 | Pass |
|        |        |     |        |         | 12          | 0.229   | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |     |        |         | 13.2        | 2.232   | 0.0013      | -2.5 to 2.5 | Pass |
|        |        |     |        | -30     | 12          | -2.232  | -0.0013     | -2.5 to 2.5 | Pass |
|        |        |     |        | -20     | 12          | -1.602  | -0.0009     | -2.5 to 2.5 | Pass |
|        |        |     |        | -10     | 12          | -0.286  | -0.0002     | -2.5 to 2.5 | Pass |
|        |        |     |        | 0       | 12          | -2.389  | -0.0014     | -2.5 to 2.5 | Pass |
|        |        |     |        | 10      | 12          | 3.576   | 0.0020      | -2.5 to 2.5 | Pass |
|        |        |     |        | 30      | 12          | -1.230  | -0.0007     | -2.5 to 2.5 | Pass |
|        |        |     |        | 40      | 12          | -0.658  | -0.0004     | -2.5 to 2.5 | Pass |
| 50     |        |     |        | 12      | -2.160      | -0.0012 | -2.5 to 2.5 | Pass        |      |



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## 3. Frequency Stability

### 3.1 B5\_1.4MHz

#### 3.1.1 Test Result

| Band: 5 / Bandwidth: 1.4MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 824.7           | 6             | 0      | 20         | 10.8          | -2.303           | -0.0028               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -4.077           | -0.0049               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -5.965           | -0.0072               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | -7.782           | -0.0094               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | -5.922           | -0.0072               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | -4.091           | -0.0050               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | -4.220           | -0.0051               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | -3.762           | -0.0046               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | -1.845           | -0.0022               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | -3.963           | -0.0048               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 12            | -2.060           | -0.0025               | -2.5 to 2.5 | Pass    |
|                             | 836.5           | 6             | 0      | 20         | 10.8          | -1.688           | -0.0020               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -1.888           | -0.0023               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -1.874           | -0.0022               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | -3.219           | -0.0038               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | -3.390           | -0.0041               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | -1.745           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | -1.616           | -0.0019               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | -1.760           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | -1.545           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | -3.061           | -0.0037               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 12            | -1.917           | -0.0023               | -2.5 to 2.5 | Pass    |
|                             | 848.3           | 6             | 0      | 20         | 10.8          | -0.401           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -2.489           | -0.0029               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -0.830           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | -2.990           | -0.0035               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | 1.931            | 0.0023                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | 0.172            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | -1.302           | -0.0015               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | -0.830           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 0.629            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | 1.030            | 0.0012                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 12            | 1.302            | 0.0015                | -2.5 to 2.5 | Pass    |
| 16QAM                       | 824.7           | 6             | 0      | 20         | 10.8          | -1.817           | -0.0022               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -0.501           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -0.515           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | -1.030           | -0.0012               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | -0.801           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | -1.788           | -0.0022               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | 1.130            | 0.0014                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 1.030            | 0.0012                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 1.159            | 0.0014                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | -0.086           | -0.0001               | -2.5 to 2.5 | Pass    |



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|       |       |   |   |     |      |        |         |             |      |
|-------|-------|---|---|-----|------|--------|---------|-------------|------|
|       | 836.5 | 6 | 0 | 50  | 12   | -1.101 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |   |   | 20  | 10.8 | 0.215  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 12   | -2.017 | -0.0024 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 13.2 | -1.545 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 12   | -2.661 | -0.0032 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 12   | -2.232 | -0.0027 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 12   | -3.591 | -0.0043 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 12   | -4.363 | -0.0052 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 12   | -6.995 | -0.0084 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 12   | -2.246 | -0.0027 | -2.5 to 2.5 | Pass |
|       | 848.3 | 6 | 0 | 40  | 12   | -2.832 | -0.0034 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 12   | -3.161 | -0.0038 | -2.5 to 2.5 | Pass |
|       |       |   |   | 20  | 10.8 | -3.576 | -0.0042 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 12   | -0.587 | -0.0007 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 13.2 | 2.189  | 0.0026  | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 12   | -1.001 | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 12   | -1.044 | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 12   | -0.029 | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 12   | -2.961 | -0.0035 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 12   | 1.488  | 0.0018  | -2.5 to 2.5 | Pass |
| 64QAM | 824.7 | 6 | 0 | 30  | 12   | -1.731 | -0.0020 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 12   | -0.243 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 12   | -1.659 | -0.0020 | -2.5 to 2.5 | Pass |
|       |       |   |   | 20  | 10.8 | -1.659 | -0.0020 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 12   | -2.761 | -0.0033 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 13.2 | -4.091 | -0.0050 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 12   | -3.490 | -0.0042 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 12   | -6.166 | -0.0075 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 12   | -5.236 | -0.0063 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 12   | -0.858 | -0.0010 | -2.5 to 2.5 | Pass |
|       | 836.5 | 6 | 0 | 10  | 12   | -3.891 | -0.0047 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 12   | 0.544  | 0.0007  | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 12   | -5.236 | -0.0063 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 12   | -5.193 | -0.0063 | -2.5 to 2.5 | Pass |
|       |       |   |   | 20  | 10.8 | -2.103 | -0.0025 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 12   | -3.433 | -0.0041 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 13.2 | -3.390 | -0.0041 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 12   | 1.302  | 0.0016  | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 12   | -2.618 | -0.0031 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 12   | -5.093 | -0.0061 | -2.5 to 2.5 | Pass |
|       | 848.3 | 6 | 0 | 0   | 12   | -1.373 | -0.0016 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 12   | -0.501 | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 12   | -2.403 | -0.0029 | -2.5 to 2.5 | Pass |
|       |       |   |   | 40  | 12   | -1.101 | -0.0013 | -2.5 to 2.5 | Pass |
|       |       |   |   | 50  | 12   | 1.130  | 0.0014  | -2.5 to 2.5 | Pass |
|       |       |   |   | 20  | 10.8 | 0.315  | 0.0004  | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 12   | -0.057 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |   |   |     | 13.2 | -1.645 | -0.0019 | -2.5 to 2.5 | Pass |
|       |       |   |   | -30 | 12   | -0.086 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |   |   | -20 | 12   | -0.501 | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |   |   | -10 | 12   | -0.243 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |   |   | 0   | 12   | -1.259 | -0.0015 | -2.5 to 2.5 | Pass |
|       |       |   |   | 10  | 12   | -1.202 | -0.0014 | -2.5 to 2.5 | Pass |
|       |       |   |   | 30  | 12   | -4.807 | -0.0057 | -2.5 to 2.5 | Pass |



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|        |       |        |         |             |             |         |             |             |      |
|--------|-------|--------|---------|-------------|-------------|---------|-------------|-------------|------|
|        |       |        |         | 40          | 12          | -0.687  | -0.0008     | -2.5 to 2.5 | Pass |
|        |       |        |         | 50          | 12          | -1.016  | -0.0012     | -2.5 to 2.5 | Pass |
|        |       |        |         |             |             |         |             |             |      |
| 256QAM | 824.7 | 6      | 0       | 20          | 10.8        | -1.516  | -0.0018     | -2.5 to 2.5 | Pass |
|        |       |        |         |             | 12          | -6.151  | -0.0075     | -2.5 to 2.5 | Pass |
|        |       |        |         |             | 13.2        | -0.529  | -0.0006     | -2.5 to 2.5 | Pass |
|        |       |        |         | -30         | 12          | -1.001  | -0.0012     | -2.5 to 2.5 | Pass |
|        |       |        |         | -20         | 12          | -3.490  | -0.0042     | -2.5 to 2.5 | Pass |
|        |       |        |         | -10         | 12          | -2.146  | -0.0026     | -2.5 to 2.5 | Pass |
|        |       |        |         | 0           | 12          | -2.031  | -0.0025     | -2.5 to 2.5 | Pass |
|        |       |        |         | 10          | 12          | 1.273   | 0.0015      | -2.5 to 2.5 | Pass |
|        |       |        |         | 30          | 12          | -1.631  | -0.0020     | -2.5 to 2.5 | Pass |
|        |       |        |         | 40          | 12          | -0.143  | -0.0002     | -2.5 to 2.5 | Pass |
|        | 50    | 12     | -5.465  | -0.0066     | -2.5 to 2.5 | Pass    |             |             |      |
|        | 836.5 | 6      | 0       | 20          | 10.8        | -2.346  | -0.0028     | -2.5 to 2.5 | Pass |
|        |       |        |         |             | 12          | -2.131  | -0.0025     | -2.5 to 2.5 | Pass |
|        |       |        |         |             | 13.2        | -2.804  | -0.0034     | -2.5 to 2.5 | Pass |
|        |       |        |         | -30         | 12          | -1.659  | -0.0020     | -2.5 to 2.5 | Pass |
|        |       |        |         | -20         | 12          | -1.788  | -0.0021     | -2.5 to 2.5 | Pass |
|        |       |        |         | -10         | 12          | -0.887  | -0.0011     | -2.5 to 2.5 | Pass |
|        |       |        |         | 0           | 12          | -2.375  | -0.0028     | -2.5 to 2.5 | Pass |
|        |       |        |         | 10          | 12          | -0.172  | -0.0002     | -2.5 to 2.5 | Pass |
|        |       |        |         | 30          | 12          | -5.465  | -0.0065     | -2.5 to 2.5 | Pass |
|        |       |        |         | 40          | 12          | -4.635  | -0.0055     | -2.5 to 2.5 | Pass |
|        | 50    | 12     | -0.615  | -0.0007     | -2.5 to 2.5 | Pass    |             |             |      |
|        | 848.3 | 6      | 0       | 20          | 10.8        | -0.486  | -0.0006     | -2.5 to 2.5 | Pass |
|        |       |        |         |             | 12          | 1.202   | 0.0014      | -2.5 to 2.5 | Pass |
|        |       |        |         |             | 13.2        | -0.243  | -0.0003     | -2.5 to 2.5 | Pass |
|        |       |        |         | -30         | 12          | -1.073  | -0.0013     | -2.5 to 2.5 | Pass |
|        |       |        |         | -20         | 12          | 0.343   | 0.0004      | -2.5 to 2.5 | Pass |
|        |       |        |         | -10         | 12          | -2.346  | -0.0028     | -2.5 to 2.5 | Pass |
|        |       |        |         | 0           | 12          | -0.086  | -0.0001     | -2.5 to 2.5 | Pass |
|        |       |        |         | 10          | 12          | -2.847  | -0.0034     | -2.5 to 2.5 | Pass |
| 30     |       |        |         | 12          | -1.760      | -0.0021 | -2.5 to 2.5 | Pass        |      |
| 40     |       |        |         | 12          | -1.245      | -0.0015 | -2.5 to 2.5 | Pass        |      |
| 50     | 12    | -3.605 | -0.0042 | -2.5 to 2.5 | Pass        |         |             |             |      |

### 3.2 B5 3MHz

### 3.2.1 Test Result

| Band: 5 / Bandwidth: 3MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 825.5           | 15            | 0      | 20         | 10.8          | -0.386           | -0.0005               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | -3.362           | -0.0041               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | 1.874            | 0.0023                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | 2.375            | 0.0029                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | -2.203           | -0.0027               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | 0.830            | 0.0010                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 12            | 0.229            | 0.0003                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 12            | 0.186            | 0.0002                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 12            | -0.057           | -0.0001               | -2.5 to 2.5 | Pass    |



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|       |       |    |   |     |      |        |         |             |      |
|-------|-------|----|---|-----|------|--------|---------|-------------|------|
|       | 836.5 | 15 | 0 | 40  | 12   | -1.931 | -0.0023 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 12   | 0.157  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |    |   | 20  | 10.8 | 1.831  | 0.0022  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 12   | 1.345  | 0.0016  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 13.2 | -1.473 | -0.0018 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 12   | -1.588 | -0.0019 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 12   | 0.772  | 0.0009  | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 12   | -2.275 | -0.0027 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 12   | -1.287 | -0.0015 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 12   | 2.360  | 0.0028  | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 12   | -3.905 | -0.0047 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 12   | -1.945 | -0.0023 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 12   | -1.359 | -0.0016 | -2.5 to 2.5 | Pass |
|       | 847.5 | 15 | 0 | 20  | 10.8 | -4.606 | -0.0054 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 12   | -1.659 | -0.0020 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 13.2 | -0.300 | -0.0004 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 12   | -1.674 | -0.0020 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 12   | -2.246 | -0.0027 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 12   | -3.691 | -0.0044 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 12   | -3.161 | -0.0037 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 12   | -1.030 | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 12   | 0.257  | 0.0003  | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 12   | -2.933 | -0.0035 | -2.5 to 2.5 | Pass |
|       |       |    |   | 50  | 12   | -4.363 | -0.0051 | -2.5 to 2.5 | Pass |
| 16QAM | 825.5 | 15 | 0 | 20  | 10.8 | -0.987 | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 12   | -0.029 | 0.0000  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 13.2 | -1.874 | -0.0023 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 12   | -0.730 | -0.0009 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 12   | -0.272 | -0.0003 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 12   | -2.360 | -0.0029 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 12   | -2.275 | -0.0028 | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 12   | -0.072 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 12   | -0.114 | -0.0001 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 12   | 1.345  | 0.0016  | -2.5 to 2.5 | Pass |
|       | 836.5 | 15 | 0 | 20  | 10.8 | 1.373  | 0.0016  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 12   | -2.947 | -0.0035 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 13.2 | -1.459 | -0.0017 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 12   | -1.144 | -0.0014 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 12   | -3.233 | -0.0039 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 12   | 1.259  | 0.0015  | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 12   | 0.515  | 0.0006  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 12   | -0.129 | -0.0002 | -2.5 to 2.5 | Pass |
|       |       |    |   | 30  | 12   | -3.004 | -0.0036 | -2.5 to 2.5 | Pass |
|       |       |    |   | 40  | 12   | -0.029 | 0.0000  | -2.5 to 2.5 | Pass |
|       | 847.5 | 15 | 0 | 20  | 10.8 | -0.715 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 12   | 0.157  | 0.0002  | -2.5 to 2.5 | Pass |
|       |       |    |   |     | 13.2 | -5.279 | -0.0062 | -2.5 to 2.5 | Pass |
|       |       |    |   | -30 | 12   | -1.059 | -0.0012 | -2.5 to 2.5 | Pass |
|       |       |    |   | -20 | 12   | -0.658 | -0.0008 | -2.5 to 2.5 | Pass |
|       |       |    |   | -10 | 12   | -2.103 | -0.0025 | -2.5 to 2.5 | Pass |
|       |       |    |   | 0   | 12   | 1.574  | 0.0019  | -2.5 to 2.5 | Pass |
|       |       |    |   | 10  | 12   | -0.415 | -0.0005 | -2.5 to 2.5 | Pass |



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|        |       |    |   |     |      |        |         |             |      |
|--------|-------|----|---|-----|------|--------|---------|-------------|------|
|        |       |    |   | 30  | 12   | -1.287 | -0.0015 | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 12   | -2.818 | -0.0033 | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 12   | -1.130 | -0.0013 | -2.5 to 2.5 | Pass |
| 64QAM  | 825.5 | 15 | 0 | 20  | 10.8 | -2.604 | -0.0032 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 12   | -0.215 | -0.0003 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 13.2 | 1.860  | 0.0023  | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 12   | -1.431 | -0.0017 | -2.5 to 2.5 | Pass |
|        |       |    |   | -20 | 12   | -1.116 | -0.0014 | -2.5 to 2.5 | Pass |
|        |       |    |   | -10 | 12   | -2.775 | -0.0034 | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 12   | -2.732 | -0.0033 | -2.5 to 2.5 | Pass |
|        |       |    |   | 10  | 12   | -1.602 | -0.0019 | -2.5 to 2.5 | Pass |
|        |       |    |   | 30  | 12   | 0.257  | 0.0003  | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 12   | 1.159  | 0.0014  | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 12   | 0.730  | 0.0009  | -2.5 to 2.5 | Pass |
|        | 836.5 | 15 | 0 | 20  | 10.8 | -3.576 | -0.0043 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 12   | -1.445 | -0.0017 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 13.2 | 1.531  | 0.0018  | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 12   | 0.372  | 0.0004  | -2.5 to 2.5 | Pass |
|        |       |    |   | -20 | 12   | -1.101 | -0.0013 | -2.5 to 2.5 | Pass |
|        |       |    |   | -10 | 12   | 0.687  | 0.0008  | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 12   | -2.289 | -0.0027 | -2.5 to 2.5 | Pass |
|        |       |    |   | 10  | 12   | -3.734 | -0.0045 | -2.5 to 2.5 | Pass |
|        |       |    |   | 30  | 12   | -2.632 | -0.0031 | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 12   | -1.345 | -0.0016 | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 12   | 0.629  | 0.0008  | -2.5 to 2.5 | Pass |
|        | 847.5 | 15 | 0 | 20  | 10.8 | -4.148 | -0.0049 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 12   | -4.463 | -0.0053 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 13.2 | -2.360 | -0.0028 | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 12   | -0.901 | -0.0011 | -2.5 to 2.5 | Pass |
|        |       |    |   | -20 | 12   | -3.762 | -0.0044 | -2.5 to 2.5 | Pass |
|        |       |    |   | -10 | 12   | -3.247 | -0.0038 | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 12   | -3.376 | -0.0040 | -2.5 to 2.5 | Pass |
|        |       |    |   | 10  | 12   | 1.059  | 0.0012  | -2.5 to 2.5 | Pass |
|        |       |    |   | 30  | 12   | 0.215  | 0.0003  | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 12   | -4.134 | -0.0049 | -2.5 to 2.5 | Pass |
| 256QAM | 825.5 | 15 | 0 | 20  | 10.8 | -0.401 | -0.0005 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 12   | 1.416  | 0.0017  | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 13.2 | 0.901  | 0.0011  | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 12   | -1.631 | -0.0020 | -2.5 to 2.5 | Pass |
|        |       |    |   | -20 | 12   | -1.445 | -0.0018 | -2.5 to 2.5 | Pass |
|        |       |    |   | -10 | 12   | 0.916  | 0.0011  | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 12   | -0.930 | -0.0011 | -2.5 to 2.5 | Pass |
|        |       |    |   | 10  | 12   | 0.229  | 0.0003  | -2.5 to 2.5 | Pass |
|        |       |    |   | 30  | 12   | 1.402  | 0.0017  | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 12   | -0.429 | -0.0005 | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 12   | 0.343  | 0.0004  | -2.5 to 2.5 | Pass |
|        | 836.5 | 15 | 0 | 20  | 10.8 | -0.587 | -0.0007 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 12   | -4.134 | -0.0049 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 13.2 | -0.687 | -0.0008 | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 12   | 0.415  | 0.0005  | -2.5 to 2.5 | Pass |
|        |       |    |   | -20 | 12   | -2.933 | -0.0035 | -2.5 to 2.5 | Pass |
|        |       |    |   | -10 | 12   | 1.245  | 0.0015  | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 12   | 0.572  | 0.0007  | -2.5 to 2.5 | Pass |



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|  |       |    |   |     |      |        |         |             |      |
|--|-------|----|---|-----|------|--------|---------|-------------|------|
|  |       |    |   | 10  | 12   | -2.432 | -0.0029 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 12   | -1.659 | -0.0020 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 12   | -0.257 | -0.0003 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 12   | 0.429  | 0.0005  | -2.5 to 2.5 | Pass |
|  | 847.5 | 15 | 0 | 20  | 10.8 | -4.463 | -0.0053 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12   | 1.230  | 0.0015  | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 13.2 | -3.219 | -0.0038 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 12   | -0.601 | -0.0007 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 12   | -3.948 | -0.0047 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 12   | -2.704 | -0.0032 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 12   | -3.934 | -0.0046 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 12   | -0.587 | -0.0007 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 12   | -3.905 | -0.0046 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 12   | -5.264 | -0.0062 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 12   | -2.561 | -0.0030 | -2.5 to 2.5 | Pass |

## 3.3 B5\_5MHz

### 3.3.1 Test Result

| Band: 5 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 826.5           | 25            | 0      | 20         | 10.8          | -2.589           | -0.0031               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | -3.948           | -0.0048               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | -2.561           | -0.0031               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | -4.563           | -0.0055               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | -0.043           | -0.0001               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | -3.605           | -0.0044               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 12            | -2.031           | -0.0025               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 12            | -2.031           | -0.0025               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 12            | -1.516           | -0.0018               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 12            | -2.360           | -0.0029               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 12            | -3.405           | -0.0041               | -2.5 to 2.5 | Pass    |
|                           | 836.5           | 25            | 0      | 20         | 10.8          | 0.086            | 0.0001                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | -2.875           | -0.0034               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | -3.662           | -0.0044               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | -3.190           | -0.0038               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | -1.445           | -0.0017               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | -1.631           | -0.0019               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 12            | -4.249           | -0.0051               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 12            | -2.661           | -0.0032               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 12            | -2.532           | -0.0030               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 12            | -2.003           | -0.0024               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 12            | -0.801           | -0.0010               | -2.5 to 2.5 | Pass    |
|                           | 846.5           | 25            | 0      | 20         | 10.8          | -2.160           | -0.0026               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | -2.818           | -0.0033               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | -3.562           | -0.0042               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | -2.460           | -0.0029               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | -3.004           | -0.0035               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | -4.678           | -0.0055               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 12            | -0.472           | -0.0006               | -2.5 to 2.5 | Pass    |



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|       |       |        |         |             |             |         |             |             |        |
|-------|-------|--------|---------|-------------|-------------|---------|-------------|-------------|--------|
|       |       |        |         | 10          | 12          | -5.007  | -0.0059     | -2.5 to 2.5 | Pass   |
|       |       |        |         | 30          | 12          | -3.619  | -0.0043     | -2.5 to 2.5 | Pass   |
|       |       |        |         | 40          | 12          | -2.046  | -0.0024     | -2.5 to 2.5 | Pass   |
|       |       |        |         | 50          | 12          | -1.230  | -0.0015     | -2.5 to 2.5 | Pass   |
| 16QAM | 826.5 | 25     | 0       | 20          | 10.8        | -0.415  | -0.0005     | -2.5 to 2.5 | Pass   |
|       |       |        |         |             | 12          | -3.719  | -0.0045     | -2.5 to 2.5 | Pass   |
|       |       |        |         |             | 13.2        | -1.345  | -0.0016     | -2.5 to 2.5 | Pass   |
|       |       |        |         | -30         | 12          | -4.621  | -0.0056     | -2.5 to 2.5 | Pass   |
|       |       |        |         | -20         | 12          | -0.229  | -0.0003     | -2.5 to 2.5 | Pass   |
|       |       |        |         | -10         | 12          | -5.007  | -0.0061     | -2.5 to 2.5 | Pass   |
|       |       |        |         | 0           | 12          | -1.731  | -0.0021     | -2.5 to 2.5 | Pass   |
|       |       |        |         | 10          | 12          | -0.644  | -0.0008     | -2.5 to 2.5 | Pass   |
|       |       |        |         | 30          | 12          | -2.518  | -0.0030     | -2.5 to 2.5 | Pass   |
|       |       |        |         | 40          | 12          | -3.304  | -0.0040     | -2.5 to 2.5 | Pass   |
|       |       |        |         | 50          | 12          | -1.030  | -0.0012     | -2.5 to 2.5 | Pass   |
|       |       |        |         | 836.5       | 25          | 0       | 20          | 10.8        | -0.658 |
|       | 12    | -4.249 | -0.0051 |             |             |         |             | -2.5 to 2.5 | Pass   |
|       | 13.2  | -0.987 | -0.0012 |             |             |         |             | -2.5 to 2.5 | Pass   |
|       | -30   | 12     | 0.472   |             |             |         | 0.0006      | -2.5 to 2.5 | Pass   |
|       | -20   | 12     | -0.687  |             |             |         | -0.0008     | -2.5 to 2.5 | Pass   |
|       | -10   | 12     | -1.001  |             |             |         | -0.0012     | -2.5 to 2.5 | Pass   |
|       | 0     | 12     | -1.001  |             |             |         | -0.0012     | -2.5 to 2.5 | Pass   |
|       | 10    | 12     | -0.401  |             |             |         | -0.0005     | -2.5 to 2.5 | Pass   |
|       | 30    | 12     | -0.429  |             |             |         | -0.0005     | -2.5 to 2.5 | Pass   |
|       | 40    | 12     | -0.129  |             |             |         | -0.0002     | -2.5 to 2.5 | Pass   |
|       | 50    | 12     | -2.275  |             |             |         | -0.0027     | -2.5 to 2.5 | Pass   |
|       | 846.5 | 25     | 0       |             |             |         | 20          | 10.8        | -4.592 |
|       |       |        |         | 12          | -1.974      | -0.0023 |             | -2.5 to 2.5 | Pass   |
|       |       |        |         | 13.2        | -1.302      | -0.0015 |             | -2.5 to 2.5 | Pass   |
|       |       |        |         | -30         | 12          | -0.215  | -0.0003     | -2.5 to 2.5 | Pass   |
|       |       |        |         | -20         | 12          | -3.147  | -0.0037     | -2.5 to 2.5 | Pass   |
|       |       |        |         | -10         | 12          | -2.217  | -0.0026     | -2.5 to 2.5 | Pass   |
| 0     |       |        |         | 12          | -3.047      | -0.0036 | -2.5 to 2.5 | Pass        |        |
| 10    |       |        |         | 12          | -3.762      | -0.0044 | -2.5 to 2.5 | Pass        |        |
| 30    |       |        |         | 12          | -4.621      | -0.0055 | -2.5 to 2.5 | Pass        |        |
| 40    |       |        |         | 12          | -3.963      | -0.0047 | -2.5 to 2.5 | Pass        |        |
| 50    |       |        |         | 12          | -1.931      | -0.0023 | -2.5 to 2.5 | Pass        |        |
| 64QAM |       |        |         | 826.5       | 25          | 0       | 20          | 10.8        | -0.215 |
|       | 12    | -2.789 | -0.0034 |             |             |         |             | -2.5 to 2.5 | Pass   |
|       | 13.2  | -4.005 | -0.0048 |             |             |         |             | -2.5 to 2.5 | Pass   |
|       | -30   | 12     | -3.076  |             |             |         | -0.0037     | -2.5 to 2.5 | Pass   |
|       | -20   | 12     | -1.259  |             |             |         | -0.0015     | -2.5 to 2.5 | Pass   |
|       | -10   | 12     | -4.091  |             |             |         | -0.0049     | -2.5 to 2.5 | Pass   |
|       | 0     | 12     | -4.535  |             |             |         | -0.0055     | -2.5 to 2.5 | Pass   |
|       | 10    | 12     | -3.061  |             |             |         | -0.0037     | -2.5 to 2.5 | Pass   |
|       | 30    | 12     | -5.722  |             |             |         | -0.0069     | -2.5 to 2.5 | Pass   |
|       | 40    | 12     | 0.858   |             |             |         | 0.0010      | -2.5 to 2.5 | Pass   |
|       | 50    | 12     | -3.419  |             |             |         | -0.0041     | -2.5 to 2.5 | Pass   |
|       | 836.5 | 25     | 0       |             |             |         | 20          | 10.8        | -3.548 |
|       |       |        |         | 12          | 0.472       | 0.0006  |             | -2.5 to 2.5 | Pass   |
|       |       |        |         | 13.2        | 1.717       | 0.0021  |             | -2.5 to 2.5 | Pass   |
|       |       |        |         | -30         | 12          | -3.405  | -0.0041     | -2.5 to 2.5 | Pass   |
|       | -20   | 12     | -2.403  | -0.0029     | -2.5 to 2.5 | Pass    |             |             |        |
| -10   | 12    | -2.446 | -0.0029 | -2.5 to 2.5 | Pass        |         |             |             |        |



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|  |       |    |   |     |      |        |         |             |      |
|--|-------|----|---|-----|------|--------|---------|-------------|------|
|  |       |    |   | 0   | 12   | -3.576 | -0.0043 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 12   | -4.005 | -0.0048 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 12   | -2.933 | -0.0035 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 12   | -4.234 | -0.0051 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 12   | -0.715 | -0.0009 | -2.5 to 2.5 | Pass |
|  | 846.5 | 25 | 0 | 20  | 10.8 | -1.788 | -0.0021 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12   | -1.974 | -0.0023 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 13.2 | -2.646 | -0.0031 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 12   | -4.792 | -0.0057 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 12   | -3.347 | -0.0040 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 12   | -2.418 | -0.0029 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 12   | -1.802 | -0.0021 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 12   | -2.503 | -0.0030 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 12   | -0.987 | -0.0012 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 12   | -2.961 | -0.0035 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 12   | -2.503 | -0.0030 | -2.5 to 2.5 | Pass |
|  | 826.5 | 25 | 0 | 20  | 10.8 | -6.166 | -0.0075 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12   | -2.532 | -0.0031 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 13.2 | -1.245 | -0.0015 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 12   | -2.518 | -0.0030 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 12   | -4.277 | -0.0052 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 12   | -2.003 | -0.0024 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 12   | -2.432 | -0.0029 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 12   | -3.104 | -0.0038 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 12   | -1.359 | -0.0016 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 12   | -2.675 | -0.0032 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 12   | -1.559 | -0.0019 | -2.5 to 2.5 | Pass |
|  | 836.5 | 25 | 0 | 20  | 10.8 | -4.220 | -0.0050 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12   | -2.847 | -0.0034 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 13.2 | -4.935 | -0.0059 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 12   | -0.801 | -0.0010 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 12   | -2.518 | -0.0030 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 12   | -2.332 | -0.0028 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 12   | -2.460 | -0.0029 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 12   | -0.286 | -0.0003 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 12   | 0.100  | 0.0001  | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 12   | -1.674 | -0.0020 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 12   | -1.173 | -0.0014 | -2.5 to 2.5 | Pass |
|  | 846.5 | 25 | 0 | 20  | 10.8 | -4.706 | -0.0056 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12   | -2.975 | -0.0035 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 13.2 | -1.130 | -0.0013 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 12   | -4.549 | -0.0054 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 12   | -3.176 | -0.0038 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 12   | -0.815 | -0.0010 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 12   | -4.549 | -0.0054 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 12   | -1.760 | -0.0021 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 12   | -3.934 | -0.0046 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 12   | -1.960 | -0.0023 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 12   | -3.390 | -0.0040 | -2.5 to 2.5 | Pass |

## 3.4 B5\_10MHz



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Test Report Form Version: Rev01

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## 3.4.1 Test Result

| Band: 5 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 829             | 50            | 0      | 20         | 10.8          | -0.987           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -1.373           | -0.0017               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -2.275           | -0.0027               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -2.661           | -0.0032               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 0.315            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -2.289           | -0.0028               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 0.029            | 0.0000                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -0.215           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | -2.046           | -0.0025               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -1.245           | -0.0015               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | -0.930           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            | 836.5           | 50            | 0      | 20         | 10.8          | -4.349           | -0.0052               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -2.961           | -0.0035               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -1.988           | -0.0024               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -2.060           | -0.0025               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -2.618           | -0.0031               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -3.748           | -0.0045               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -2.489           | -0.0030               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -4.392           | -0.0053               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | -2.632           | -0.0031               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -2.818           | -0.0034               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | -2.446           | -0.0029               | -2.5 to 2.5 | Pass    |
|                            | 844             | 50            | 0      | 20         | 10.8          | -3.119           | -0.0037               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -0.529           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 0.072            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -0.930           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -1.216           | -0.0014               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -1.030           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -0.901           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -3.433           | -0.0041               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | -1.745           | -0.0021               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -2.732           | -0.0032               | -2.5 to 2.5 | Pass    |
| 16QAM                      | 829             | 50            | 0      | 20         | 10.8          | -0.458           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -2.375           | -0.0029               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -0.916           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 0.286            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -1.388           | -0.0017               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -1.030           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 0.157            | 0.0002                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -0.644           | -0.0008               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | -1.631           | -0.0020               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -1.059           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | -0.372           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            | 836.5           | 50            | 0      | 20         | 10.8          | -1.631           | -0.0019               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -2.832           | -0.0034               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -3.247           | -0.0039               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -2.031           | -0.0024               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -1.516           | -0.0018               | -2.5 to 2.5 | Pass    |



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|        |       |    |   |     |      |        |         |             |      |
|--------|-------|----|---|-----|------|--------|---------|-------------|------|
|        |       |    |   | -10 | 12   | -4.277 | -0.0051 | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 12   | -3.090 | -0.0037 | -2.5 to 2.5 | Pass |
|        |       |    |   | 10  | 12   | -0.572 | -0.0007 | -2.5 to 2.5 | Pass |
|        |       |    |   | 30  | 12   | -1.974 | -0.0024 | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 12   | -2.904 | -0.0035 | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 12   | -3.190 | -0.0038 | -2.5 to 2.5 | Pass |
|        | 844   | 50 | 0 | 20  | 10.8 | 1.302  | 0.0015  | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 12   | 0.143  | 0.0002  | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 13.2 | -0.100 | -0.0001 | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 12   | 0.329  | 0.0004  | -2.5 to 2.5 | Pass |
|        |       |    |   | -20 | 12   | -1.760 | -0.0021 | -2.5 to 2.5 | Pass |
|        |       |    |   | -10 | 12   | -2.761 | -0.0033 | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 12   | 0.014  | 0.0000  | -2.5 to 2.5 | Pass |
|        |       |    |   | 10  | 12   | -2.403 | -0.0028 | -2.5 to 2.5 | Pass |
|        |       |    |   | 30  | 12   | -1.717 | -0.0020 | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 12   | -3.204 | -0.0038 | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 12   | -1.588 | -0.0019 | -2.5 to 2.5 | Pass |
| 64QAM  | 829   | 50 | 0 | 20  | 10.8 | -1.874 | -0.0023 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 12   | -0.715 | -0.0009 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 13.2 | -0.973 | -0.0012 | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 12   | -0.029 | 0.0000  | -2.5 to 2.5 | Pass |
|        |       |    |   | -20 | 12   | -1.988 | -0.0024 | -2.5 to 2.5 | Pass |
|        |       |    |   | -10 | 12   | -2.489 | -0.0030 | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 12   | -0.472 | -0.0006 | -2.5 to 2.5 | Pass |
|        |       |    |   | 10  | 12   | -2.217 | -0.0027 | -2.5 to 2.5 | Pass |
|        |       |    |   | 30  | 12   | -1.330 | -0.0016 | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 12   | -1.059 | -0.0013 | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 12   | -3.176 | -0.0038 | -2.5 to 2.5 | Pass |
|        | 836.5 | 50 | 0 | 20  | 10.8 | -2.460 | -0.0029 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 12   | -1.760 | -0.0021 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 13.2 | -1.230 | -0.0015 | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 12   | -0.429 | -0.0005 | -2.5 to 2.5 | Pass |
|        |       |    |   | -20 | 12   | -2.160 | -0.0026 | -2.5 to 2.5 | Pass |
|        |       |    |   | -10 | 12   | -0.029 | 0.0000  | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 12   | -2.375 | -0.0028 | -2.5 to 2.5 | Pass |
|        |       |    |   | 10  | 12   | -2.689 | -0.0032 | -2.5 to 2.5 | Pass |
|        |       |    |   | 30  | 12   | -4.106 | -0.0049 | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 12   | -2.618 | -0.0031 | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 12   | -1.502 | -0.0018 | -2.5 to 2.5 | Pass |
|        | 844   | 50 | 0 | 20  | 10.8 | -2.990 | -0.0035 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 12   | -1.674 | -0.0020 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 13.2 | -2.146 | -0.0025 | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 12   | -2.632 | -0.0031 | -2.5 to 2.5 | Pass |
|        |       |    |   | -20 | 12   | -1.688 | -0.0020 | -2.5 to 2.5 | Pass |
|        |       |    |   | -10 | 12   | -0.486 | -0.0006 | -2.5 to 2.5 | Pass |
|        |       |    |   | 0   | 12   | 0.687  | 0.0008  | -2.5 to 2.5 | Pass |
|        |       |    |   | 10  | 12   | -1.674 | -0.0020 | -2.5 to 2.5 | Pass |
|        |       |    |   | 30  | 12   | -1.674 | -0.0020 | -2.5 to 2.5 | Pass |
|        |       |    |   | 40  | 12   | -2.375 | -0.0028 | -2.5 to 2.5 | Pass |
|        |       |    |   | 50  | 12   | -1.216 | -0.0014 | -2.5 to 2.5 | Pass |
| 256QAM | 829   | 50 | 0 | 20  | 10.8 | -1.788 | -0.0022 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 12   | -2.818 | -0.0034 | -2.5 to 2.5 | Pass |
|        |       |    |   |     | 13.2 | -0.958 | -0.0012 | -2.5 to 2.5 | Pass |
|        |       |    |   | -30 | 12   | -0.329 | -0.0004 | -2.5 to 2.5 | Pass |



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|  |       |    |   |     |      |        |         |             |      |
|--|-------|----|---|-----|------|--------|---------|-------------|------|
|  |       |    |   | -20 | 12   | -2.332 | -0.0028 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 12   | -1.101 | -0.0013 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 12   | -3.705 | -0.0045 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 12   | -0.744 | -0.0009 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 12   | -3.204 | -0.0039 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 12   | -0.701 | -0.0008 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 12   | -2.804 | -0.0034 | -2.5 to 2.5 | Pass |
|  | 836.5 | 50 | 0 | 20  | 10.8 | -3.777 | -0.0045 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12   | -0.973 | -0.0012 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 13.2 | -2.990 | -0.0036 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 12   | -1.688 | -0.0020 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 12   | -2.689 | -0.0032 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 12   | -2.460 | -0.0029 | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 12   | -2.775 | -0.0033 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 12   | -1.230 | -0.0015 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 12   | -3.047 | -0.0036 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 12   | -1.502 | -0.0018 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 12   | -2.632 | -0.0031 | -2.5 to 2.5 | Pass |
|  | 844   | 50 | 0 | 20  | 10.8 | -0.472 | -0.0006 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 12   | -0.401 | -0.0005 | -2.5 to 2.5 | Pass |
|  |       |    |   |     | 13.2 | -1.330 | -0.0016 | -2.5 to 2.5 | Pass |
|  |       |    |   | -30 | 12   | -1.645 | -0.0019 | -2.5 to 2.5 | Pass |
|  |       |    |   | -20 | 12   | -0.157 | -0.0002 | -2.5 to 2.5 | Pass |
|  |       |    |   | -10 | 12   | 1.431  | 0.0017  | -2.5 to 2.5 | Pass |
|  |       |    |   | 0   | 12   | -2.089 | -0.0025 | -2.5 to 2.5 | Pass |
|  |       |    |   | 10  | 12   | -1.359 | -0.0016 | -2.5 to 2.5 | Pass |
|  |       |    |   | 30  | 12   | -1.245 | -0.0015 | -2.5 to 2.5 | Pass |
|  |       |    |   | 40  | 12   | -1.616 | -0.0019 | -2.5 to 2.5 | Pass |
|  |       |    |   | 50  | 12   | -2.775 | -0.0033 | -2.5 to 2.5 | Pass |



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## 4. Frequency Stability

### 4.1 B7\_5MHz

#### 4.1.1 Test Result

| Band: 7 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|---------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                           |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                      | 2502.5          | 25            | 0      | 20         | 10.8          | -2.317           | -0.0009               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | 0.629            | 0.0003                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | 0.687            | 0.0003                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | 1.903            | 0.0008                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | 3.462            | 0.0014                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | 2.060            | 0.0008                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 12            | -4.563           | -0.0018               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 12            | 3.090            | 0.0012                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 12            | -4.034           | -0.0016               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 12            | -2.360           | -0.0009               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 12            | 3.204            | 0.0013                | -2.5 to 2.5 | Pass    |
|                           | 2535            | 25            | 0      | 20         | 10.8          | -1.373           | -0.0005               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | 1.101            | 0.0004                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | -1.359           | -0.0005               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | 4.449            | 0.0018                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | -0.129           | -0.0001               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | -2.089           | -0.0008               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 12            | 3.419            | 0.0013                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 12            | -1.960           | -0.0008               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 12            | -0.186           | -0.0001               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 12            | -1.431           | -0.0006               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 12            | 1.731            | 0.0007                | -2.5 to 2.5 | Pass    |
|                           | 2567.5          | 25            | 0      | 20         | 10.8          | 3.190            | 0.0012                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | 5.250            | 0.0020                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | -2.217           | -0.0009               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | 2.217            | 0.0009                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | -3.448           | -0.0013               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | 1.631            | 0.0006                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 12            | 4.234            | 0.0016                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 12            | -2.232           | -0.0009               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 12            | -3.204           | -0.0012               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 12            | 0.830            | 0.0003                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 50         | 12            | 4.878            | 0.0019                | -2.5 to 2.5 | Pass    |
| 16QAM                     | 2502.5          | 25            | 0      | 20         | 10.8          | -5.207           | -0.0021               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 12            | -1.845           | -0.0007               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        |            | 13.2          | -2.174           | -0.0009               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -30        | 12            | 2.317            | 0.0009                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -20        | 12            | 0.958            | 0.0004                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | -10        | 12            | -1.888           | -0.0008               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 0          | 12            | 1.674            | 0.0007                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 10         | 12            | 2.403            | 0.0010                | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 30         | 12            | -1.631           | -0.0007               | -2.5 to 2.5 | Pass    |
|                           |                 |               |        | 40         | 12            | 3.219            | 0.0013                | -2.5 to 2.5 | Pass    |



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|       |        |       |        |             |             |        |             |             |      |
|-------|--------|-------|--------|-------------|-------------|--------|-------------|-------------|------|
|       |        |       |        | 50          | 12          | 3.877  | 0.0015      | -2.5 to 2.5 | Pass |
|       | 2535   | 25    | 0      | 20          | 10.8        | 5.407  | 0.0021      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 12          | 1.688  | 0.0007      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 13.2        | -3.462 | -0.0014     | -2.5 to 2.5 | Pass |
|       |        |       |        | -30         | 12          | -3.977 | -0.0016     | -2.5 to 2.5 | Pass |
|       |        |       |        | -20         | 12          | -2.375 | -0.0009     | -2.5 to 2.5 | Pass |
|       |        |       |        | -10         | 12          | 2.289  | 0.0009      | -2.5 to 2.5 | Pass |
|       |        |       |        | 0           | 12          | -2.189 | -0.0009     | -2.5 to 2.5 | Pass |
|       |        |       |        | 10          | 12          | -0.100 | 0.0000      | -2.5 to 2.5 | Pass |
|       |        |       |        | 30          | 12          | -0.672 | -0.0003     | -2.5 to 2.5 | Pass |
|       |        |       |        | 40          | 12          | 2.975  | 0.0012      | -2.5 to 2.5 | Pass |
|       | 50     | 12    | -4.134 | -0.0016     | -2.5 to 2.5 | Pass   |             |             |      |
|       | 2567.5 | 25    | 0      | 20          | 10.8        | -1.974 | -0.0008     | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 12          | 3.605  | 0.0014      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 13.2        | 1.187  | 0.0005      | -2.5 to 2.5 | Pass |
|       |        |       |        | -30         | 12          | -0.916 | -0.0004     | -2.5 to 2.5 | Pass |
|       |        |       |        | -20         | 12          | -3.033 | -0.0012     | -2.5 to 2.5 | Pass |
|       |        |       |        | -10         | 12          | -0.429 | -0.0002     | -2.5 to 2.5 | Pass |
|       |        |       |        | 0           | 12          | 1.273  | 0.0005      | -2.5 to 2.5 | Pass |
|       |        |       |        | 10          | 12          | 3.176  | 0.0012      | -2.5 to 2.5 | Pass |
| 30    |        |       |        | 12          | 3.862       | 0.0015 | -2.5 to 2.5 | Pass        |      |
| 40    |        |       |        | 12          | 5.422       | 0.0021 | -2.5 to 2.5 | Pass        |      |
| 50    | 12     | 4.563 | 0.0018 | -2.5 to 2.5 | Pass        |        |             |             |      |
| 64QAM | 2502.5 | 25    | 0      | 20          | 10.8        | 1.545  | 0.0006      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 12          | 1.416  | 0.0006      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 13.2        | -0.601 | -0.0002     | -2.5 to 2.5 | Pass |
|       |        |       |        | -30         | 12          | 3.619  | 0.0014      | -2.5 to 2.5 | Pass |
|       |        |       |        | -20         | 12          | 3.934  | 0.0016      | -2.5 to 2.5 | Pass |
|       |        |       |        | -10         | 12          | 6.480  | 0.0026      | -2.5 to 2.5 | Pass |
|       |        |       |        | 0           | 12          | 5.507  | 0.0022      | -2.5 to 2.5 | Pass |
|       |        |       |        | 10          | 12          | 0.601  | 0.0002      | -2.5 to 2.5 | Pass |
|       |        |       |        | 30          | 12          | 6.995  | 0.0028      | -2.5 to 2.5 | Pass |
|       |        |       |        | 40          | 12          | 1.702  | 0.0007      | -2.5 to 2.5 | Pass |
|       | 50     | 12    | -1.030 | -0.0004     | -2.5 to 2.5 | Pass   |             |             |      |
|       | 2535   | 25    | 0      | 20          | 10.8        | -0.300 | -0.0001     | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 12          | -6.723 | -0.0027     | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 13.2        | 4.206  | 0.0017      | -2.5 to 2.5 | Pass |
|       |        |       |        | -30         | 12          | 2.389  | 0.0009      | -2.5 to 2.5 | Pass |
|       |        |       |        | -20         | 12          | 3.190  | 0.0013      | -2.5 to 2.5 | Pass |
|       |        |       |        | -10         | 12          | 3.362  | 0.0013      | -2.5 to 2.5 | Pass |
|       |        |       |        | 0           | 12          | -4.106 | -0.0016     | -2.5 to 2.5 | Pass |
|       |        |       |        | 10          | 12          | 2.689  | 0.0011      | -2.5 to 2.5 | Pass |
|       |        |       |        | 30          | 12          | -1.774 | -0.0007     | -2.5 to 2.5 | Pass |
|       |        |       |        | 40          | 12          | 1.502  | 0.0006      | -2.5 to 2.5 | Pass |
|       | 50     | 12    | -0.587 | -0.0002     | -2.5 to 2.5 | Pass   |             |             |      |
|       | 2567.5 | 25    | 0      | 20          | 10.8        | 3.734  | 0.0015      | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 12          | -2.418 | -0.0009     | -2.5 to 2.5 | Pass |
|       |        |       |        |             | 13.2        | 8.154  | 0.0032      | -2.5 to 2.5 | Pass |
|       |        |       |        | -30         | 12          | 0.129  | 0.0001      | -2.5 to 2.5 | Pass |
|       |        |       |        | -20         | 12          | -0.944 | -0.0004     | -2.5 to 2.5 | Pass |
|       |        |       |        | -10         | 12          | 3.805  | 0.0015      | -2.5 to 2.5 | Pass |
|       |        |       |        | 0           | 12          | 3.676  | 0.0014      | -2.5 to 2.5 | Pass |
|       |        |       |        | 10          | 12          | 0.873  | 0.0003      | -2.5 to 2.5 | Pass |
| 30    | 12     | 4.778 | 0.0019 | -2.5 to 2.5 | Pass        |        |             |             |      |



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|        |        |    |   |     |      |        |         |             |      |
|--------|--------|----|---|-----|------|--------|---------|-------------|------|
|        |        |    |   | 40  | 12   | 5.007  | 0.0020  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 1.674  | 0.0007  | -2.5 to 2.5 | Pass |
| 256QAM | 2502.5 | 25 | 0 | 20  | 10.8 | -0.930 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -0.730 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 0.730  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 2.146  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -5.393 | -0.0022 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -0.958 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 1.931  | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | -1.173 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 2.890  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 2.561  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 4.206  | 0.0017  | -2.5 to 2.5 | Pass |
|        | 2535   | 25 | 0 | 20  | 10.8 | 0.114  | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 2.890  | 0.0011  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | -5.736 | -0.0023 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | -3.104 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -0.029 | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 3.619  | 0.0014  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 0.243  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | -2.632 | -0.0010 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 4.377  | 0.0017  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -0.744 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 3.219  | 0.0013  | -2.5 to 2.5 | Pass |
|        | 2567.5 | 25 | 0 | 20  | 10.8 | -1.316 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 4.077  | 0.0016  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 8.297  | 0.0032  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 7.854  | 0.0031  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 5.379  | 0.0021  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 2.618  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 7.310  | 0.0028  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 6.166  | 0.0024  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 3.648  | 0.0014  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 5.107  | 0.0020  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 8.340  | 0.0032  | -2.5 to 2.5 | Pass |

## 4.2 B7\_10MHz

### 4.2.1 Test Result

| Band: 7 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 2505            | 50            | 0      | 20         | 10.8          | -3.319           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -3.963           | -0.0016               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 0.916            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -4.921           | -0.0020               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -6.237           | -0.0025               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -3.004           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -2.174           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 1.559            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | -0.372           | -0.0001               | -2.5 to 2.5 | Pass    |



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|       |      |    |   |     |      |        |         |             |      |
|-------|------|----|---|-----|------|--------|---------|-------------|------|
|       |      |    |   | 40  | 12   | -0.458 | -0.0002 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 12   | -2.217 | -0.0009 | -2.5 to 2.5 | Pass |
|       | 2535 | 50 | 0 | 20  | 10.8 | -0.172 | -0.0001 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 12   | 2.847  | 0.0011  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 13.2 | 1.988  | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 12   | -13.25 | -0.0017 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 12   | -4.148 | -0.0016 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 12   | 0.787  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 12   | 1.245  | 0.0005  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 12   | -0.830 | -0.0003 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 12   | 1.473  | 0.0006  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 12   | -0.186 | -0.0001 | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 12   | 3.304  | 0.0013  | -2.5 to 2.5 | Pass |
|       | 2565 | 50 | 0 | 20  | 10.8 | 6.595  | 0.0026  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 12   | 1.760  | 0.0007  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 13.2 | 0.472  | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 12   | 3.433  | 0.0013  | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 12   | 0.672  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 12   | 1.445  | 0.0006  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 12   | 4.950  | 0.0019  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 12   | -5.851 | -0.0023 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 12   | 4.406  | 0.0017  | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 12   | 2.532  | 0.0010  | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 12   | 1.388  | 0.0005  | -2.5 to 2.5 | Pass |
| 16QAM | 2505 | 50 | 0 | 20  | 10.8 | -1.616 | -0.0006 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 12   | -1.173 | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 13.2 | -1.116 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 12   | -0.844 | -0.0003 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 12   | -4.249 | -0.0017 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 12   | 1.845  | 0.0007  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 12   | -1.688 | -0.0007 | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 12   | -1.431 | -0.0006 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 12   | -0.916 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 12   | 3.991  | 0.0016  | -2.5 to 2.5 | Pass |
|       |      |    |   | 50  | 12   | 0.072  | 0.0000  | -2.5 to 2.5 | Pass |
|       | 2535 | 50 | 0 | 20  | 10.8 | -2.246 | -0.0009 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 12   | 1.860  | 0.0007  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 13.2 | 3.562  | 0.0014  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 12   | 3.819  | 0.0015  | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 12   | -1.087 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 12   | -1.073 | -0.0004 | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 12   | 2.060  | 0.0008  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 12   | -1.259 | -0.0005 | -2.5 to 2.5 | Pass |
|       |      |    |   | 30  | 12   | -0.315 | -0.0001 | -2.5 to 2.5 | Pass |
|       |      |    |   | 40  | 12   | 1.030  | 0.0004  | -2.5 to 2.5 | Pass |
|       | 2565 | 50 | 0 | 20  | 10.8 | -0.429 | -0.0002 | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 12   | 4.206  | 0.0016  | -2.5 to 2.5 | Pass |
|       |      |    |   |     | 13.2 | 0.873  | 0.0003  | -2.5 to 2.5 | Pass |
|       |      |    |   | -30 | 12   | -1.645 | -0.0006 | -2.5 to 2.5 | Pass |
|       |      |    |   | -20 | 12   | 0.601  | 0.0002  | -2.5 to 2.5 | Pass |
|       |      |    |   | -10 | 12   | 1.459  | 0.0006  | -2.5 to 2.5 | Pass |
|       |      |    |   | 0   | 12   | 3.061  | 0.0012  | -2.5 to 2.5 | Pass |
|       |      |    |   | 10  | 12   | 2.160  | 0.0008  | -2.5 to 2.5 | Pass |



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|        |      |        |         |        |             |         |             |             |       |
|--------|------|--------|---------|--------|-------------|---------|-------------|-------------|-------|
|        |      |        |         | 30     | 12          | -3.304  | -0.0013     | -2.5 to 2.5 | Pass  |
|        |      |        |         | 40     | 12          | 5.007   | 0.0020      | -2.5 to 2.5 | Pass  |
|        |      |        |         | 50     | 12          | 3.262   | 0.0013      | -2.5 to 2.5 | Pass  |
| 64QAM  | 2505 | 50     | 0       | 20     | 10.8        | 1.445   | 0.0006      | -2.5 to 2.5 | Pass  |
|        |      |        |         |        | 12          | 2.747   | 0.0011      | -2.5 to 2.5 | Pass  |
|        |      |        |         |        | 13.2        | -0.029  | 0.0000      | -2.5 to 2.5 | Pass  |
|        |      |        |         | -30    | 12          | -0.358  | -0.0001     | -2.5 to 2.5 | Pass  |
|        |      |        |         | -20    | 12          | -4.678  | -0.0019     | -2.5 to 2.5 | Pass  |
|        |      |        |         | -10    | 12          | 1.960   | 0.0008      | -2.5 to 2.5 | Pass  |
|        |      |        |         | 0      | 12          | -0.386  | -0.0002     | -2.5 to 2.5 | Pass  |
|        |      |        |         | 10     | 12          | 2.832   | 0.0011      | -2.5 to 2.5 | Pass  |
|        |      |        |         | 30     | 12          | -1.330  | -0.0005     | -2.5 to 2.5 | Pass  |
|        |      |        |         | 40     | 12          | 3.920   | 0.0016      | -2.5 to 2.5 | Pass  |
|        |      |        |         | 50     | 12          | 0.029   | 0.0000      | -2.5 to 2.5 | Pass  |
|        |      |        |         | 2535   | 50          | 0       | 20          | 10.8        | 0.458 |
|        | 12   | -0.730 | -0.0003 |        |             |         |             | -2.5 to 2.5 | Pass  |
|        | 13.2 | 1.674  | 0.0007  |        |             |         |             | -2.5 to 2.5 | Pass  |
|        | -30  | 12     | -1.674  |        |             |         | -0.0007     | -2.5 to 2.5 | Pass  |
|        | -20  | 12     | 5.565   |        |             |         | 0.0022      | -2.5 to 2.5 | Pass  |
|        | -10  | 12     | 7.253   |        |             |         | 0.0029      | -2.5 to 2.5 | Pass  |
|        | 0    | 12     | 3.204   |        |             |         | 0.0013      | -2.5 to 2.5 | Pass  |
|        | 10   | 12     | 4.549   |        |             |         | 0.0018      | -2.5 to 2.5 | Pass  |
|        | 30   | 12     | 2.646   |        |             |         | 0.0010      | -2.5 to 2.5 | Pass  |
|        | 40   | 12     | 5.851   |        |             |         | 0.0023      | -2.5 to 2.5 | Pass  |
|        | 50   | 12     | 3.605   |        |             |         | 0.0014      | -2.5 to 2.5 | Pass  |
|        | 2565 | 50     | 0       |        |             |         | 20          | 10.8        | 0.429 |
|        |      |        |         | 12     | 2.046       | 0.0008  |             | -2.5 to 2.5 | Pass  |
|        |      |        |         | 13.2   | 5.322       | 0.0021  |             | -2.5 to 2.5 | Pass  |
|        |      |        |         | -30    | 12          | -0.200  | -0.0001     | -2.5 to 2.5 | Pass  |
|        |      |        |         | -20    | 12          | 2.217   | 0.0009      | -2.5 to 2.5 | Pass  |
|        |      |        |         | -10    | 12          | 1.888   | 0.0007      | -2.5 to 2.5 | Pass  |
|        |      |        |         | 0      | 12          | 2.890   | 0.0011      | -2.5 to 2.5 | Pass  |
|        |      |        |         | 10     | 12          | -2.375  | -0.0009     | -2.5 to 2.5 | Pass  |
| 30     |      |        |         | 12     | 3.347       | 0.0013  | -2.5 to 2.5 | Pass        |       |
| 40     |      |        |         | 12     | -1.073      | -0.0004 | -2.5 to 2.5 | Pass        |       |
| 50     |      |        |         | 12     | 1.903       | 0.0007  | -2.5 to 2.5 | Pass        |       |
| 256QAM |      |        |         | 2505   | 50          | 0       | 20          | 10.8        | 0.558 |
|        | 12   | 6.552  | 0.0026  |        |             |         |             | -2.5 to 2.5 | Pass  |
|        | 13.2 | 6.008  | 0.0024  |        |             |         |             | -2.5 to 2.5 | Pass  |
|        | -30  | 12     | 1.159   |        |             |         | 0.0005      | -2.5 to 2.5 | Pass  |
|        | -20  | 12     | 3.891   |        |             |         | 0.0016      | -2.5 to 2.5 | Pass  |
|        | -10  | 12     | 0.544   |        |             |         | 0.0002      | -2.5 to 2.5 | Pass  |
|        | 0    | 12     | 2.532   |        |             |         | 0.0010      | -2.5 to 2.5 | Pass  |
|        | 10   | 12     | 3.247   |        |             |         | 0.0013      | -2.5 to 2.5 | Pass  |
|        | 30   | 12     | 2.875   |        |             |         | 0.0011      | -2.5 to 2.5 | Pass  |
|        | 40   | 12     | 1.373   |        |             |         | 0.0005      | -2.5 to 2.5 | Pass  |
|        | 50   | 12     | 0.758   |        |             |         | 0.0003      | -2.5 to 2.5 | Pass  |
|        | 2535 | 50     | 0       |        |             |         | 20          | 10.8        | 5.507 |
|        |      |        |         | 12     | 6.595       | 0.0026  |             | -2.5 to 2.5 | Pass  |
|        |      |        |         | 13.2   | 6.237       | 0.0025  |             | -2.5 to 2.5 | Pass  |
|        |      |        |         | -30    | 12          | 5.364   | 0.0021      | -2.5 to 2.5 | Pass  |
|        |      |        |         | -20    | 12          | 0.272   | 0.0001      | -2.5 to 2.5 | Pass  |
|        |      |        |         | -10    | 12          | 3.805   | 0.0015      | -2.5 to 2.5 | Pass  |
|        | 0    | 12     | 6.194   | 0.0024 | -2.5 to 2.5 | Pass    |             |             |       |



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|    |      |       |        |             |      |        |         |             |      |
|----|------|-------|--------|-------------|------|--------|---------|-------------|------|
|    |      |       |        | 10          | 12   | 9.055  | 0.0036  | -2.5 to 2.5 | Pass |
|    |      |       |        | 30          | 12   | 5.150  | 0.0020  | -2.5 to 2.5 | Pass |
|    |      |       |        | 40          | 12   | 0.944  | 0.0004  | -2.5 to 2.5 | Pass |
|    |      |       |        | 50          | 12   | 0.172  | 0.0001  | -2.5 to 2.5 | Pass |
|    | 2565 | 50    | 0      | 20          | 10.8 | 1.702  | 0.0007  | -2.5 to 2.5 | Pass |
|    |      |       |        |             | 12   | 1.359  | 0.0005  | -2.5 to 2.5 | Pass |
|    |      |       |        |             | 13.2 | 2.489  | 0.0010  | -2.5 to 2.5 | Pass |
|    |      |       |        | -30         | 12   | 3.819  | 0.0015  | -2.5 to 2.5 | Pass |
|    |      |       |        | -20         | 12   | 0.458  | 0.0002  | -2.5 to 2.5 | Pass |
|    |      |       |        | -10         | 12   | 7.825  | 0.0031  | -2.5 to 2.5 | Pass |
|    |      |       |        | 0           | 12   | 3.233  | 0.0013  | -2.5 to 2.5 | Pass |
|    |      |       |        | 10          | 12   | -1.116 | -0.0004 | -2.5 to 2.5 | Pass |
|    |      |       |        | 30          | 12   | -4.134 | -0.0016 | -2.5 to 2.5 | Pass |
|    |      |       |        | 40          | 12   | 1.745  | 0.0007  | -2.5 to 2.5 | Pass |
| 50 | 12   | 4.077 | 0.0016 | -2.5 to 2.5 | Pass |        |         |             |      |

### 4.3 B7 15MHz

### 4.3.1 Test Result

| Band: 7 / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 2507.5          | 75            | 0      | 20         | 10.8          | 2.847            | 0.0011                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 0.200            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 5.422            | 0.0022                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -0.629           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 5.050            | 0.0020                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 7.224            | 0.0029                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 5.980            | 0.0024                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 5.164            | 0.0021                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 5.150            | 0.0021                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -2.704           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            | 50              | 12            | -1.101 | -0.0004    | -2.5 to 2.5   | Pass             |                       |             |         |
|                            | 2535            | 75            | 0      | 20         | 10.8          | -2.174           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -3.219           | -0.0013               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -0.615           | -0.0002               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -2.804           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -1.473           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -2.818           | -0.0011               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 2.160            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -2.575           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | -1.059           | -0.0004               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -6.323           | -0.0025               | -2.5 to 2.5 | Pass    |
|                            | 50              | 12            | 0.186  | 0.0001     | -2.5 to 2.5   | Pass             |                       |             |         |
|                            | 2562.5          | 75            | 0      | 20         | 10.8          | -3.619           | -0.0014               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | -3.190           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -2.260           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -1.631           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -3.147           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -1.616           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -5.264           | -0.0021               | -2.5 to 2.5 | Pass    |



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|       |        |        |         |        |        |         |             |             |        |
|-------|--------|--------|---------|--------|--------|---------|-------------|-------------|--------|
|       |        |        |         | 10     | 12     | -3.633  | -0.0014     | -2.5 to 2.5 | Pass   |
|       |        |        |         | 30     | 12     | -5.393  | -0.0021     | -2.5 to 2.5 | Pass   |
|       |        |        |         | 40     | 12     | -4.263  | -0.0017     | -2.5 to 2.5 | Pass   |
|       |        |        |         | 50     | 12     | 1.130   | 0.0004      | -2.5 to 2.5 | Pass   |
| 16QAM | 2507.5 | 75     | 0       | 20     | 10.8   | -0.501  | -0.0002     | -2.5 to 2.5 | Pass   |
|       |        |        |         |        | 12     | 2.589   | 0.0010      | -2.5 to 2.5 | Pass   |
|       |        |        |         |        | 13.2   | 3.519   | 0.0014      | -2.5 to 2.5 | Pass   |
|       |        |        |         | -30    | 12     | 6.795   | 0.0027      | -2.5 to 2.5 | Pass   |
|       |        |        |         | -20    | 12     | 3.147   | 0.0013      | -2.5 to 2.5 | Pass   |
|       |        |        |         | -10    | 12     | 10.629  | 0.0042      | -2.5 to 2.5 | Pass   |
|       |        |        |         | 0      | 12     | 5.550   | 0.0022      | -2.5 to 2.5 | Pass   |
|       |        |        |         | 10     | 12     | 1.159   | 0.0005      | -2.5 to 2.5 | Pass   |
|       |        |        |         | 30     | 12     | 2.518   | 0.0010      | -2.5 to 2.5 | Pass   |
|       |        |        |         | 40     | 12     | 0.844   | 0.0003      | -2.5 to 2.5 | Pass   |
|       |        |        |         | 50     | 12     | 1.359   | 0.0005      | -2.5 to 2.5 | Pass   |
|       |        |        |         | 2535   | 75     | 0       | 20          | 10.8        | -3.376 |
|       | 12     | -0.601 | -0.0002 |        |        |         |             | -2.5 to 2.5 | Pass   |
|       | 13.2   | 0.129  | 0.0001  |        |        |         |             | -2.5 to 2.5 | Pass   |
|       | -30    | 12     | 1.645   |        |        |         | 0.0006      | -2.5 to 2.5 | Pass   |
|       | -20    | 12     | 0.830   |        |        |         | 0.0003      | -2.5 to 2.5 | Pass   |
|       | -10    | 12     | -0.272  |        |        |         | -0.0001     | -2.5 to 2.5 | Pass   |
|       | 0      | 12     | 0.672   |        |        |         | 0.0003      | -2.5 to 2.5 | Pass   |
|       | 10     | 12     | 0.887   |        |        |         | 0.0003      | -2.5 to 2.5 | Pass   |
|       | 30     | 12     | 1.659   |        |        |         | 0.0007      | -2.5 to 2.5 | Pass   |
|       | 40     | 12     | 2.532   |        |        |         | 0.0010      | -2.5 to 2.5 | Pass   |
|       | 50     | 12     | 5.336   |        |        |         | 0.0021      | -2.5 to 2.5 | Pass   |
|       | 2562.5 | 75     | 0       |        |        |         | 20          | 10.8        | -3.490 |
|       |        |        |         | 12     | 3.033  | 0.0012  |             | -2.5 to 2.5 | Pass   |
|       |        |        |         | 13.2   | -4.263 | -0.0017 |             | -2.5 to 2.5 | Pass   |
|       |        |        |         | -30    | 12     | -0.415  | -0.0002     | -2.5 to 2.5 | Pass   |
|       |        |        |         | -20    | 12     | -1.330  | -0.0005     | -2.5 to 2.5 | Pass   |
|       |        |        |         | -10    | 12     | -3.977  | -0.0016     | -2.5 to 2.5 | Pass   |
|       |        |        |         | 0      | 12     | -5.364  | -0.0021     | -2.5 to 2.5 | Pass   |
|       |        |        |         | 10     | 12     | 0.544   | 0.0002      | -2.5 to 2.5 | Pass   |
|       |        |        |         | 30     | 12     | 4.592   | 0.0018      | -2.5 to 2.5 | Pass   |
|       |        |        |         | 40     | 12     | 3.448   | 0.0013      | -2.5 to 2.5 | Pass   |
| 50    |        |        |         | 12     | 6.781  | 0.0026  | -2.5 to 2.5 | Pass        |        |
| 64QAM |        |        |         | 2507.5 | 75     | 0       | 20          | 10.8        | 6.366  |
|       | 12     | 7.796  | 0.0031  |        |        |         |             | -2.5 to 2.5 | Pass   |
|       | 13.2   | 0.901  | 0.0004  |        |        |         |             | -2.5 to 2.5 | Pass   |
|       | -30    | 12     | 2.246   |        |        |         | 0.0009      | -2.5 to 2.5 | Pass   |
|       | -20    | 12     | 1.130   |        |        |         | 0.0005      | -2.5 to 2.5 | Pass   |
|       | -10    | 12     | 5.436   |        |        |         | 0.0022      | -2.5 to 2.5 | Pass   |
|       | 0      | 12     | 7.353   |        |        |         | 0.0029      | -2.5 to 2.5 | Pass   |
|       | 10     | 12     | 3.390   |        |        |         | 0.0014      | -2.5 to 2.5 | Pass   |
|       | 30     | 12     | 4.406   |        |        |         | 0.0018      | -2.5 to 2.5 | Pass   |
|       | 40     | 12     | 7.210   |        |        |         | 0.0029      | -2.5 to 2.5 | Pass   |
|       | 50     | 12     | 6.266   |        |        |         | 0.0025      | -2.5 to 2.5 | Pass   |
|       | 2535   | 75     | 0       |        |        |         | 20          | 10.8        | 0.129  |
|       |        |        |         | 12     | 4.578  | 0.0018  |             | -2.5 to 2.5 | Pass   |
|       |        |        |         | 13.2   | 4.935  | 0.0019  |             | -2.5 to 2.5 | Pass   |
|       |        |        |         | -30    | 12     | 0.072   | 0.0000      | -2.5 to 2.5 | Pass   |
|       |        |        |         | -20    | 12     | 3.805   | 0.0015      | -2.5 to 2.5 | Pass   |
|       |        |        |         | -10    | 12     | 2.789   | 0.0011      | -2.5 to 2.5 | Pass   |



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|        |        |    |   |     |      |        |         |             |      |
|--------|--------|----|---|-----|------|--------|---------|-------------|------|
| 256QAM |        |    |   | 0   | 12   | 0.987  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 2.303  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 2.561  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 3.433  | 0.0014  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 0.844  | 0.0003  | -2.5 to 2.5 | Pass |
|        | 2562.5 | 75 | 0 | 20  | 10.8 | 6.137  | 0.0024  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 5.894  | 0.0023  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 8.497  | 0.0033  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 7.639  | 0.0030  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 7.281  | 0.0028  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 0.973  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 2.217  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 5.651  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 2.418  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 5.622  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 4.349  | 0.0017  | -2.5 to 2.5 | Pass |
|        | 2507.5 | 75 | 0 | 20  | 10.8 | 3.633  | 0.0014  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 3.948  | 0.0016  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 5.064  | 0.0020  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 3.018  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 10.843 | 0.0043  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 4.020  | 0.0016  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 5.150  | 0.0021  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 1.588  | 0.0006  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 0.529  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 6.881  | 0.0027  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 9.613  | 0.0038  | -2.5 to 2.5 | Pass |
|        | 2535   | 75 | 0 | 20  | 10.8 | -3.219 | -0.0013 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 0.615  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | -0.830 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | -3.362 | -0.0013 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -6.394 | -0.0025 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -6.194 | -0.0024 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -5.980 | -0.0024 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | -3.419 | -0.0013 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 1.488  | 0.0006  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 0.801  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 1.202  | 0.0005  | -2.5 to 2.5 | Pass |
|        | 2562.5 | 75 | 0 | 20  | 10.8 | 4.420  | 0.0017  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 8.912  | 0.0035  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 5.450  | 0.0021  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 1.974  | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 2.990  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 4.792  | 0.0019  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 9.270  | 0.0036  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 1.502  | 0.0006  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 2.189  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 3.290  | 0.0013  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 4.692  | 0.0018  | -2.5 to 2.5 | Pass |

## 4.4 B7\_20MHz



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Test Report Form Version: Rev01

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## 4.4.1 Test Result

| Band: 7 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 2510            | 100           | 0      | 20         | 10.8          | 2.518            | 0.0010                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 3.948            | 0.0016                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 1.516            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 0.629            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 0.644            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 2.933            | 0.0012                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 3.934            | 0.0016                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 0.443            | 0.0002                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 2.146            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | 5.493            | 0.0022                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | 3.004            | 0.0012                | -2.5 to 2.5 | Pass    |
|                            | 2535            | 100           | 0      | 20         | 10.8          | 1.087            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 0.215            | 0.0001                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 3.476            | 0.0014                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -0.815           | -0.0003               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 4.549            | 0.0018                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 2.689            | 0.0011                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -0.243           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | -2.432           | -0.0010               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 5.250            | 0.0021                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | -3.061           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | 1.245            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            | 2560            | 100           | 0      | 20         | 10.8          | 3.304            | 0.0013                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 5.178            | 0.0020                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -1.516           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 4.592            | 0.0018                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 4.935            | 0.0019                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 2.489            | 0.0010                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 6.180            | 0.0024                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 4.935            | 0.0019                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 2.904            | 0.0011                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | 4.964            | 0.0019                | -2.5 to 2.5 | Pass    |
| 16QAM                      | 2510            | 100           | 0      | 20         | 10.8          | 1.287            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 3.605            | 0.0014                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 5.050            | 0.0020                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 0.944            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 4.220            | 0.0017                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -0.200           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 2.103            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 1.903            | 0.0008                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 1.173            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | 1.531            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 50         | 12            | 13.25            | 0.0018                | -2.5 to 2.5 | Pass    |
|                            | 2535            | 100           | 0      | 20         | 10.8          | 5.236            | 0.0021                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 1.845            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 1.116            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -1.502           | -0.0006               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 4.263            | 0.0017                | -2.5 to 2.5 | Pass    |



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|        |      |     |   |     |      |        |         |             |      |
|--------|------|-----|---|-----|------|--------|---------|-------------|------|
|        |      |     |   | -10 | 12   | 4.921  | 0.0019  | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 12   | -0.229 | -0.0001 | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 12   | -1.016 | -0.0004 | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 12   | 0.315  | 0.0001  | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 12   | -0.043 | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 12   | 2.933  | 0.0012  | -2.5 to 2.5 | Pass |
|        | 2560 | 100 | 0 | 20  | 10.8 | 1.559  | 0.0006  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 12   | 4.492  | 0.0018  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 13.2 | 1.874  | 0.0007  | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 12   | 2.646  | 0.0010  | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 12   | 2.432  | 0.0010  | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 12   | 0.544  | 0.0002  | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 12   | -2.003 | -0.0008 | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 12   | 2.103  | 0.0008  | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 12   | 3.104  | 0.0012  | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 12   | 1.802  | 0.0007  | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 12   | -3.362 | -0.0013 | -2.5 to 2.5 | Pass |
| 64QAM  | 2510 | 100 | 0 | 20  | 10.8 | 1.845  | 0.0007  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 12   | 3.805  | 0.0015  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 13.2 | 1.845  | 0.0007  | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 12   | 4.792  | 0.0019  | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 12   | 1.416  | 0.0006  | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 12   | 1.616  | 0.0006  | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 12   | 0.029  | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 12   | 6.480  | 0.0026  | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 12   | -0.629 | -0.0003 | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 12   | 4.506  | 0.0018  | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 12   | -2.189 | -0.0009 | -2.5 to 2.5 | Pass |
|        | 2535 | 100 | 0 | 20  | 10.8 | 0.558  | 0.0002  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 12   | 0.472  | 0.0002  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 13.2 | 1.059  | 0.0004  | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 12   | 1.302  | 0.0005  | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 12   | 0.100  | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 12   | -0.944 | -0.0004 | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 12   | -1.745 | -0.0007 | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 12   | 2.947  | 0.0012  | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 12   | -0.043 | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 12   | -2.117 | -0.0008 | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 12   | -2.203 | -0.0009 | -2.5 to 2.5 | Pass |
|        | 2560 | 100 | 0 | 20  | 10.8 | 5.665  | 0.0022  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 12   | -2.832 | -0.0011 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 13.2 | -2.875 | -0.0011 | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 12   | -1.574 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |     |   | -20 | 12   | 1.588  | 0.0006  | -2.5 to 2.5 | Pass |
|        |      |     |   | -10 | 12   | -2.847 | -0.0011 | -2.5 to 2.5 | Pass |
|        |      |     |   | 0   | 12   | 0.901  | 0.0004  | -2.5 to 2.5 | Pass |
|        |      |     |   | 10  | 12   | 0.401  | 0.0002  | -2.5 to 2.5 | Pass |
|        |      |     |   | 30  | 12   | 2.503  | 0.0010  | -2.5 to 2.5 | Pass |
|        |      |     |   | 40  | 12   | -1.359 | -0.0005 | -2.5 to 2.5 | Pass |
|        |      |     |   | 50  | 12   | 4.520  | 0.0018  | -2.5 to 2.5 | Pass |
| 256QAM | 2510 | 100 | 0 | 20  | 10.8 | -1.588 | -0.0006 | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 12   | -0.043 | 0.0000  | -2.5 to 2.5 | Pass |
|        |      |     |   |     | 13.2 | 3.476  | 0.0014  | -2.5 to 2.5 | Pass |
|        |      |     |   | -30 | 12   | -0.672 | -0.0003 | -2.5 to 2.5 | Pass |



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|  |      |     |   |     |      |        |         |             |      |
|--|------|-----|---|-----|------|--------|---------|-------------|------|
|  |      |     |   | -20 | 12   | 4.764  | 0.0019  | -2.5 to 2.5 | Pass |
|  |      |     |   | -10 | 12   | 2.460  | 0.0010  | -2.5 to 2.5 | Pass |
|  |      |     |   | 0   | 12   | 1.574  | 0.0006  | -2.5 to 2.5 | Pass |
|  |      |     |   | 10  | 12   | 1.016  | 0.0004  | -2.5 to 2.5 | Pass |
|  |      |     |   | 30  | 12   | 7.296  | 0.0029  | -2.5 to 2.5 | Pass |
|  |      |     |   | 40  | 12   | 6.337  | 0.0025  | -2.5 to 2.5 | Pass |
|  |      |     |   | 50  | 12   | 7.195  | 0.0029  | -2.5 to 2.5 | Pass |
|  | 2535 | 100 | 0 | 20  | 10.8 | 0.072  | 0.0000  | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 12   | 5.922  | 0.0023  | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 13.2 | 1.731  | 0.0007  | -2.5 to 2.5 | Pass |
|  |      |     |   | -30 | 12   | 2.203  | 0.0009  | -2.5 to 2.5 | Pass |
|  |      |     |   | -20 | 12   | 1.130  | 0.0004  | -2.5 to 2.5 | Pass |
|  |      |     |   | -10 | 12   | -0.744 | -0.0003 | -2.5 to 2.5 | Pass |
|  |      |     |   | 0   | 12   | 2.890  | 0.0011  | -2.5 to 2.5 | Pass |
|  |      |     |   | 10  | 12   | 2.646  | 0.0010  | -2.5 to 2.5 | Pass |
|  |      |     |   | 30  | 12   | 0.200  | 0.0001  | -2.5 to 2.5 | Pass |
|  |      |     |   | 40  | 12   | 7.195  | 0.0028  | -2.5 to 2.5 | Pass |
|  |      |     |   | 50  | 12   | 1.202  | 0.0005  | -2.5 to 2.5 | Pass |
|  | 2560 | 100 | 0 | 20  | 10.8 | 1.559  | 0.0006  | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 12   | 2.518  | 0.0010  | -2.5 to 2.5 | Pass |
|  |      |     |   |     | 13.2 | -0.844 | -0.0003 | -2.5 to 2.5 | Pass |
|  |      |     |   | -30 | 12   | 3.204  | 0.0013  | -2.5 to 2.5 | Pass |
|  |      |     |   | -20 | 12   | 1.101  | 0.0004  | -2.5 to 2.5 | Pass |
|  |      |     |   | -10 | 12   | 0.730  | 0.0003  | -2.5 to 2.5 | Pass |
|  |      |     |   | 0   | 12   | 0.072  | 0.0000  | -2.5 to 2.5 | Pass |
|  |      |     |   | 10  | 12   | 1.559  | 0.0006  | -2.5 to 2.5 | Pass |
|  |      |     |   | 30  | 12   | 5.922  | 0.0023  | -2.5 to 2.5 | Pass |
|  |      |     |   | 40  | 12   | 3.147  | 0.0012  | -2.5 to 2.5 | Pass |
|  |      |     |   | 50  | 12   | 1.516  | 0.0006  | -2.5 to 2.5 | Pass |



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## 5. Frequency Stability

## 5.1 B25\_1.4MHz

## 5.1.1 Test Result

| Band: 25 / Bandwidth: 1.4MHz |                 |               |        |            |               |                  |                       |             |         |
|------------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                   | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                              |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                         | 1850.7          | 6             | 0      | 20         | 10.8          | 4.692            | 0.0025                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 12            | -0.544           | -0.0003               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 13.2          | -2.260           | -0.0012               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 12            | 1.845            | 0.0010                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 12            | 5.493            | 0.0030                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 12            | -1.345           | -0.0007               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 12            | 4.907            | 0.0027                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 12            | 1.101            | 0.0006                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 12            | 3.476            | 0.0019                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 12            | 6.380            | 0.0034                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 12            | 3.018            | 0.0016                | -2.5 to 2.5 | Pass    |
|                              | 1882.5          | 6             | 0      | 20         | 10.8          | -1.588           | -0.0008               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 12            | -0.815           | -0.0004               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 13.2          | 0.658            | 0.0003                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 12            | -1.745           | -0.0009               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 12            | -1.416           | -0.0008               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 12            | 2.604            | 0.0014                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 12            | 2.317            | 0.0012                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 12            | -4.420           | -0.0023               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 12            | -4.406           | -0.0023               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 12            | 4.320            | 0.0023                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 12            | -4.277           | -0.0023               | -2.5 to 2.5 | Pass    |
|                              | 1914.3          | 6             | 0      | 20         | 10.8          | 0.758            | 0.0004                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 12            | -0.157           | -0.0001               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 13.2          | -1.302           | -0.0007               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 12            | -3.290           | -0.0017               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 12            | 2.532            | 0.0013                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 12            | 2.131            | 0.0011                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 12            | -2.847           | -0.0015               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 12            | -5.422           | -0.0028               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 12            | -2.432           | -0.0013               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 40         | 12            | -1.574           | -0.0008               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 50         | 12            | 1.144            | 0.0006                | -2.5 to 2.5 | Pass    |
| 16QAM                        | 1850.7          | 6             | 0      | 20         | 10.8          | 2.661            | 0.0014                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 12            | -2.904           | -0.0016               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        |            | 13.2          | -2.518           | -0.0014               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -30        | 12            | 2.317            | 0.0013                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -20        | 12            | 5.622            | 0.0030                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | -10        | 12            | 7.753            | 0.0042                | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 0          | 12            | -0.386           | -0.0002               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 10         | 12            | -1.645           | -0.0009               | -2.5 to 2.5 | Pass    |
|                              |                 |               |        | 30         | 12            | 5.922            | 0.0032                | -2.5 to 2.5 | Pass    |



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|       |        |   |   |     |      |        |         |             |      |
|-------|--------|---|---|-----|------|--------|---------|-------------|------|
|       | 1882.5 | 6 | 0 | 40  | 12   | 4.849  | 0.0026  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | -7.067 | -0.0038 | -2.5 to 2.5 | Pass |
|       |        |   |   | 20  | 10.8 | 1.702  | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | -2.875 | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | -4.249 | -0.0023 | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | -4.377 | -0.0023 | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | 3.691  | 0.0020  | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | -0.615 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 12   | 1.931  | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 12   | -2.675 | -0.0014 | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 12   | -2.446 | -0.0013 | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 12   | 5.021  | 0.0027  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | 1.459  | 0.0008  | -2.5 to 2.5 | Pass |
|       | 1914.3 | 6 | 0 | 20  | 10.8 | 10.157 | 0.0053  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | 1.774  | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | 2.217  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | 5.207  | 0.0027  | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | 0.730  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | 1.230  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 12   | 2.489  | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 12   | -2.003 | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 12   | 6.967  | 0.0036  | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 12   | 6.022  | 0.0031  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | 0.672  | 0.0004  | -2.5 to 2.5 | Pass |
| 64QAM | 1850.7 | 6 | 0 | 20  | 10.8 | 1.130  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | -2.103 | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | 1.173  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | 1.259  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | -0.372 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | 5.407  | 0.0029  | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 12   | -2.689 | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 12   | 1.988  | 0.0011  | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 12   | 1.302  | 0.0007  | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 12   | 3.176  | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | 1.817  | 0.0010  | -2.5 to 2.5 | Pass |
|       | 1882.5 | 6 | 0 | 20  | 10.8 | -2.031 | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | -3.161 | -0.0017 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | 2.203  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | -4.034 | -0.0021 | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | 3.605  | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | -3.791 | -0.0020 | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 12   | -1.388 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 12   | 1.774  | 0.0009  | -2.5 to 2.5 | Pass |
|       |        |   |   | 30  | 12   | 0.629  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |   |   | 40  | 12   | -5.465 | -0.0029 | -2.5 to 2.5 | Pass |
|       |        |   |   | 50  | 12   | 1.760  | 0.0009  | -2.5 to 2.5 | Pass |
|       | 1914.3 | 6 | 0 | 20  | 10.8 | -1.988 | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 12   | -1.945 | -0.0010 | -2.5 to 2.5 | Pass |
|       |        |   |   |     | 13.2 | 1.159  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |   |   | -30 | 12   | -3.676 | -0.0019 | -2.5 to 2.5 | Pass |
|       |        |   |   | -20 | 12   | -0.458 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |   |   | -10 | 12   | -0.358 | -0.0002 | -2.5 to 2.5 | Pass |
|       |        |   |   | 0   | 12   | 3.376  | 0.0018  | -2.5 to 2.5 | Pass |
|       |        |   |   | 10  | 12   | 0.186  | 0.0001  | -2.5 to 2.5 | Pass |



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|        |        |        |         |             |             |         |             |             |      |
|--------|--------|--------|---------|-------------|-------------|---------|-------------|-------------|------|
|        |        |        |         | 30          | 12          | 0.429   | 0.0002      | -2.5 to 2.5 | Pass |
|        |        |        |         | 40          | 12          | -1.903  | -0.0010     | -2.5 to 2.5 | Pass |
|        |        |        |         | 50          | 12          | -0.973  | -0.0005     | -2.5 to 2.5 | Pass |
| 256QAM | 1850.7 | 6      | 0       | 20          | 10.8        | 1.388   | 0.0007      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 12          | 8.512   | 0.0046      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 13.2        | 4.935   | 0.0027      | -2.5 to 2.5 | Pass |
|        |        |        |         | -30         | 12          | 5.322   | 0.0029      | -2.5 to 2.5 | Pass |
|        |        |        |         | -20         | 12          | 4.048   | 0.0022      | -2.5 to 2.5 | Pass |
|        |        |        |         | -10         | 12          | 3.018   | 0.0016      | -2.5 to 2.5 | Pass |
|        |        |        |         | 0           | 12          | 0.501   | 0.0003      | -2.5 to 2.5 | Pass |
|        |        |        |         | 10          | 12          | 2.503   | 0.0014      | -2.5 to 2.5 | Pass |
|        |        |        |         | 30          | 12          | 1.745   | 0.0009      | -2.5 to 2.5 | Pass |
|        |        |        |         | 40          | 12          | 4.549   | 0.0025      | -2.5 to 2.5 | Pass |
|        | 50     | 12     | 2.389   | 0.0013      | -2.5 to 2.5 | Pass    |             |             |      |
|        | 1882.5 | 6      | 0       | 20          | 10.8        | 0.443   | 0.0002      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 12          | -0.529  | -0.0003     | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 13.2        | -2.761  | -0.0015     | -2.5 to 2.5 | Pass |
|        |        |        |         | -30         | 12          | 0.000   | 0.0000      | -2.5 to 2.5 | Pass |
|        |        |        |         | -20         | 12          | 1.659   | 0.0009      | -2.5 to 2.5 | Pass |
|        |        |        |         | -10         | 12          | 3.190   | 0.0017      | -2.5 to 2.5 | Pass |
|        |        |        |         | 0           | 12          | 4.506   | 0.0024      | -2.5 to 2.5 | Pass |
|        |        |        |         | 10          | 12          | 4.778   | 0.0025      | -2.5 to 2.5 | Pass |
|        |        |        |         | 30          | 12          | 3.591   | 0.0019      | -2.5 to 2.5 | Pass |
|        |        |        |         | 40          | 12          | 1.416   | 0.0008      | -2.5 to 2.5 | Pass |
|        | 50     | 12     | 6.752   | 0.0036      | -2.5 to 2.5 | Pass    |             |             |      |
|        | 1914.3 | 6      | 0       | 20          | 10.8        | 3.333   | 0.0017      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 12          | 5.536   | 0.0029      | -2.5 to 2.5 | Pass |
|        |        |        |         |             | 13.2        | 1.473   | 0.0008      | -2.5 to 2.5 | Pass |
|        |        |        |         | -30         | 12          | -2.418  | -0.0013     | -2.5 to 2.5 | Pass |
|        |        |        |         | -20         | 12          | -1.445  | -0.0008     | -2.5 to 2.5 | Pass |
|        |        |        |         | -10         | 12          | 4.063   | 0.0021      | -2.5 to 2.5 | Pass |
|        |        |        |         | 0           | 12          | -5.808  | -0.0030     | -2.5 to 2.5 | Pass |
|        |        |        |         | 10          | 12          | 1.874   | 0.0010      | -2.5 to 2.5 | Pass |
| 30     |        |        |         | 12          | 1.144       | 0.0006  | -2.5 to 2.5 | Pass        |      |
| 40     |        |        |         | 12          | -0.572      | -0.0003 | -2.5 to 2.5 | Pass        |      |
| 50     | 12     | -3.290 | -0.0017 | -2.5 to 2.5 | Pass        |         |             |             |      |

## 5.2 B25 3MHz

### 5.2.1 Test Result

| Band: 25 / Bandwidth: 3MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1851.5          | 15            | 0      | 20         | 10.8          | 0.472            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 5.636            | 0.0030                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 1.631            | 0.0009                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -4.206           | -0.0023               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -1.659           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | -3.405           | -0.0018               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 4.249            | 0.0023                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 6.022            | 0.0033                | -2.5 to 2.5 | Pass    |



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|        |        |    |   |     |      |        |         |             |      |
|--------|--------|----|---|-----|------|--------|---------|-------------|------|
|        |        |    |   | 30  | 12   | 1.187  | 0.0006  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -6.466 | -0.0035 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -3.247 | -0.0018 | -2.5 to 2.5 | Pass |
| 1882.5 | 15     | 0  |   | 20  | 10.8 | 3.719  | 0.0020  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -3.376 | -0.0018 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | -3.605 | -0.0019 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | -0.329 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -6.022 | -0.0032 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -3.848 | -0.0020 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -0.973 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | -1.330 | -0.0007 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 0.057  | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -1.187 | -0.0006 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 1.330  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | 20  | 10.8 | -0.558 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -0.672 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | -2.561 | -0.0013 | -2.5 to 2.5 | Pass |
| 1913.5 | 15     | 0  |   | -30 | 12   | -1.802 | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 3.061  | 0.0016  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 3.219  | 0.0017  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -3.076 | -0.0016 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 2.003  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 4.220  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 0.401  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 3.304  | 0.0017  | -2.5 to 2.5 | Pass |
| 16QAM  | 1851.5 | 15 | 0 | 20  | 10.8 | 0.815  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -0.815 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 0.186  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | -2.232 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -4.206 | -0.0023 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 3.762  | 0.0020  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -0.644 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | -2.518 | -0.0014 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 1.373  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -0.887 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -1.316 | -0.0007 | -2.5 to 2.5 | Pass |
|        | 1882.5 | 15 | 0 | 20  | 10.8 | -1.802 | -0.0010 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -4.020 | -0.0021 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 1.802  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | -2.289 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -2.847 | -0.0015 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 1.402  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -0.601 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | -1.216 | -0.0006 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | -6.409 | -0.0034 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -2.961 | -0.0016 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -1.445 | -0.0008 | -2.5 to 2.5 | Pass |
|        | 1913.5 | 15 | 0 | 20  | 10.8 | 0.815  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 0.801  | 0.0004  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | -1.359 | -0.0007 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | -2.518 | -0.0013 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -0.386 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -0.443 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 5.164  | 0.0027  | -2.5 to 2.5 | Pass |



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|        |        |        |         |        |        |         |             |             |        |
|--------|--------|--------|---------|--------|--------|---------|-------------|-------------|--------|
|        |        |        |         | 10     | 12     | 2.532   | 0.0013      | -2.5 to 2.5 | Pass   |
|        |        |        |         | 30     | 12     | 4.992   | 0.0026      | -2.5 to 2.5 | Pass   |
|        |        |        |         | 40     | 12     | -2.604  | -0.0014     | -2.5 to 2.5 | Pass   |
|        |        |        |         | 50     | 12     | 1.245   | 0.0007      | -2.5 to 2.5 | Pass   |
| 64QAM  | 1851.5 | 15     | 0       | 20     | 10.8   | 4.220   | 0.0023      | -2.5 to 2.5 | Pass   |
|        |        |        |         |        | 12     | -4.392  | -0.0024     | -2.5 to 2.5 | Pass   |
|        |        |        |         |        | 13.2   | -0.544  | -0.0003     | -2.5 to 2.5 | Pass   |
|        |        |        |         | -30    | 12     | -1.774  | -0.0010     | -2.5 to 2.5 | Pass   |
|        |        |        |         | -20    | 12     | -0.157  | -0.0001     | -2.5 to 2.5 | Pass   |
|        |        |        |         | -10    | 12     | -2.432  | -0.0013     | -2.5 to 2.5 | Pass   |
|        |        |        |         | 0      | 12     | -0.944  | -0.0005     | -2.5 to 2.5 | Pass   |
|        |        |        |         | 10     | 12     | -2.632  | -0.0014     | -2.5 to 2.5 | Pass   |
|        |        |        |         | 30     | 12     | -1.688  | -0.0009     | -2.5 to 2.5 | Pass   |
|        |        |        |         | 40     | 12     | -4.020  | -0.0022     | -2.5 to 2.5 | Pass   |
|        |        |        |         | 50     | 12     | -0.014  | 0.0000      | -2.5 to 2.5 | Pass   |
|        |        |        |         | 1882.5 | 15     | 0       | 20          | 10.8        | -0.701 |
|        | 12     | -0.973 | -0.0005 |        |        |         |             | -2.5 to 2.5 | Pass   |
|        | 13.2   | -0.072 | 0.0000  |        |        |         |             | -2.5 to 2.5 | Pass   |
|        | -30    | 12     | -0.472  |        |        |         | -0.0003     | -2.5 to 2.5 | Pass   |
|        | -20    | 12     | 0.930   |        |        |         | 0.0005      | -2.5 to 2.5 | Pass   |
|        | -10    | 12     | -4.349  |        |        |         | -0.0023     | -2.5 to 2.5 | Pass   |
|        | 0      | 12     | -3.405  |        |        |         | -0.0018     | -2.5 to 2.5 | Pass   |
|        | 10     | 12     | -3.190  |        |        |         | -0.0017     | -2.5 to 2.5 | Pass   |
|        | 30     | 12     | -1.788  |        |        |         | -0.0009     | -2.5 to 2.5 | Pass   |
|        | 40     | 12     | -3.161  |        |        |         | -0.0017     | -2.5 to 2.5 | Pass   |
|        | 50     | 12     | -6.938  |        |        |         | -0.0037     | -2.5 to 2.5 | Pass   |
|        | 1913.5 | 15     | 0       |        |        |         | 20          | 10.8        | 2.532  |
|        |        |        |         | 12     | 0.987  | 0.0005  |             | -2.5 to 2.5 | Pass   |
|        |        |        |         | 13.2   | 1.717  | 0.0009  |             | -2.5 to 2.5 | Pass   |
|        |        |        |         | -30    | 12     | -0.100  | -0.0001     | -2.5 to 2.5 | Pass   |
|        |        |        |         | -20    | 12     | -1.459  | -0.0008     | -2.5 to 2.5 | Pass   |
|        |        |        |         | -10    | 12     | -1.731  | -0.0009     | -2.5 to 2.5 | Pass   |
|        |        |        |         | 0      | 12     | 1.416   | 0.0007      | -2.5 to 2.5 | Pass   |
|        |        |        |         | 10     | 12     | 4.606   | 0.0024      | -2.5 to 2.5 | Pass   |
|        |        |        |         | 30     | 12     | 1.016   | 0.0005      | -2.5 to 2.5 | Pass   |
|        |        |        |         | 40     | 12     | -1.702  | -0.0009     | -2.5 to 2.5 | Pass   |
| 50     |        |        |         | 12     | -2.146 | -0.0011 | -2.5 to 2.5 | Pass        |        |
| 256QAM |        |        |         | 1851.5 | 15     | 0       | 20          | 10.8        | -0.014 |
|        | 12     | 0.858  | 0.0005  |        |        |         |             | -2.5 to 2.5 | Pass   |
|        | 13.2   | -1.888 | -0.0010 |        |        |         |             | -2.5 to 2.5 | Pass   |
|        | -30    | 12     | -5.293  |        |        |         | -0.0029     | -2.5 to 2.5 | Pass   |
|        | -20    | 12     | 1.130   |        |        |         | 0.0006      | -2.5 to 2.5 | Pass   |
|        | -10    | 12     | 3.791   |        |        |         | 0.0020      | -2.5 to 2.5 | Pass   |
|        | 0      | 12     | 6.194   |        |        |         | 0.0033      | -2.5 to 2.5 | Pass   |
|        | 10     | 12     | 4.964   |        |        |         | 0.0027      | -2.5 to 2.5 | Pass   |
|        | 30     | 12     | 6.337   |        |        |         | 0.0034      | -2.5 to 2.5 | Pass   |
|        | 40     | 12     | 7.482   |        |        |         | 0.0040      | -2.5 to 2.5 | Pass   |
|        | 50     | 12     | 5.479   |        |        |         | 0.0030      | -2.5 to 2.5 | Pass   |
|        | 1882.5 | 15     | 0       |        |        |         | 20          | 10.8        | -1.144 |
|        |        |        |         | 12     | -5.193 | -0.0028 |             | -2.5 to 2.5 | Pass   |
|        |        |        |         | 13.2   | 3.190  | 0.0017  |             | -2.5 to 2.5 | Pass   |
|        |        |        |         | -30    | 12     | -4.134  | -0.0022     | -2.5 to 2.5 | Pass   |
|        |        |        |         | -20    | 12     | -6.766  | -0.0036     | -2.5 to 2.5 | Pass   |
|        |        |        |         | -10    | 12     | 0.887   | 0.0005      | -2.5 to 2.5 | Pass   |



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|    |        |       |        |             |      |        |         |             |      |
|----|--------|-------|--------|-------------|------|--------|---------|-------------|------|
|    |        |       |        | 0           | 12   | 1.659  | 0.0009  | -2.5 to 2.5 | Pass |
|    |        |       |        | 10          | 12   | 3.476  | 0.0018  | -2.5 to 2.5 | Pass |
|    |        |       |        | 30          | 12   | -0.987 | -0.0005 | -2.5 to 2.5 | Pass |
|    |        |       |        | 40          | 12   | -1.960 | -0.0010 | -2.5 to 2.5 | Pass |
|    |        |       |        | 50          | 12   | 5.822  | 0.0031  | -2.5 to 2.5 | Pass |
|    | 1913.5 | 15    | 0      | 20          | 10.8 | -6.180 | -0.0032 | -2.5 to 2.5 | Pass |
|    |        |       |        |             | 12   | -0.501 | -0.0003 | -2.5 to 2.5 | Pass |
|    |        |       |        |             | 13.2 | 0.944  | 0.0005  | -2.5 to 2.5 | Pass |
|    |        |       |        | -30         | 12   | 0.958  | 0.0005  | -2.5 to 2.5 | Pass |
|    |        |       |        | -20         | 12   | 0.501  | 0.0003  | -2.5 to 2.5 | Pass |
|    |        |       |        | -10         | 12   | -0.458 | -0.0002 | -2.5 to 2.5 | Pass |
|    |        |       |        | 0           | 12   | 3.290  | 0.0017  | -2.5 to 2.5 | Pass |
|    |        |       |        | 10          | 12   | -0.815 | -0.0004 | -2.5 to 2.5 | Pass |
|    |        |       |        | 30          | 12   | -1.216 | -0.0006 | -2.5 to 2.5 | Pass |
|    |        |       |        | 40          | 12   | 4.449  | 0.0023  | -2.5 to 2.5 | Pass |
| 50 | 12     | 1.402 | 0.0007 | -2.5 to 2.5 | Pass |        |         |             |      |

### 5.3 B25 5MHz

### 5.3.1 Test Result

| Band: 25 / Bandwidth: 5MHz |                 |               |        |            |               |                  |                       |             |         |
|----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                 | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                            |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                       | 1852.5          | 25            | 0      | 20         | 10.8          | 5.050            | 0.0027                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 2.260            | 0.0012                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -2.146           | -0.0012               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 5.221            | 0.0028                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -1.717           | -0.0009               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 3.576            | 0.0019                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | 3.619            | 0.0020                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 2.174            | 0.0012                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 0.973            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | 0.701            | 0.0004                | -2.5 to 2.5 | Pass    |
|                            | 50              | 12            | -0.215 | -0.0001    | -2.5 to 2.5   | Pass             |                       |             |         |
|                            | 1882.5          | 25            | 0      | 20         | 10.8          | -1.316           | -0.0007               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 2.575            | 0.0014                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | 1.216            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | 0.629            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | 5.207            | 0.0028                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -10        | 12            | 1.159            | 0.0006                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 0          | 12            | -0.186           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 10         | 12            | 3.133            | 0.0017                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 30         | 12            | 0.887            | 0.0005                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | 40         | 12            | 1.388            | 0.0007                | -2.5 to 2.5 | Pass    |
|                            | 50              | 12            | 4.177  | 0.0022     | -2.5 to 2.5   | Pass             |                       |             |         |
|                            | 1912.5          | 25            | 0      | 20         | 10.8          | -1.388           | -0.0007               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 12            | 0.544            | 0.0003                | -2.5 to 2.5 | Pass    |
|                            |                 |               |        |            | 13.2          | -0.257           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -30        | 12            | -0.100           | -0.0001               | -2.5 to 2.5 | Pass    |
|                            |                 |               |        | -20        | 12            | -0.243           | -0.0001               | -2.5 to 2.5 | Pass    |
| -10                        |                 |               |        | 12         | 2.074         | 0.0011           | -2.5 to 2.5           | Pass        |         |



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|       |        |        |         |             |             |        |             |             |      |
|-------|--------|--------|---------|-------------|-------------|--------|-------------|-------------|------|
|       |        |        |         | 0           | 12          | 1.745  | 0.0009      | -2.5 to 2.5 | Pass |
|       |        |        |         | 10          | 12          | -0.300 | -0.0002     | -2.5 to 2.5 | Pass |
|       |        |        |         | 30          | 12          | -3.333 | -0.0017     | -2.5 to 2.5 | Pass |
|       |        |        |         | 40          | 12          | 1.831  | 0.0010      | -2.5 to 2.5 | Pass |
|       |        |        |         | 50          | 12          | 2.604  | 0.0014      | -2.5 to 2.5 | Pass |
| 16QAM | 1852.5 | 25     | 0       | 20          | 10.8        | 3.047  | 0.0016      | -2.5 to 2.5 | Pass |
|       |        |        |         |             | 12          | 1.602  | 0.0009      | -2.5 to 2.5 | Pass |
|       |        |        |         |             | 13.2        | 4.535  | 0.0024      | -2.5 to 2.5 | Pass |
|       |        |        |         | -30         | 12          | 4.034  | 0.0022      | -2.5 to 2.5 | Pass |
|       |        |        |         | -20         | 12          | -1.230 | -0.0007     | -2.5 to 2.5 | Pass |
|       |        |        |         | -10         | 12          | 1.888  | 0.0010      | -2.5 to 2.5 | Pass |
|       |        |        |         | 0           | 12          | 2.275  | 0.0012      | -2.5 to 2.5 | Pass |
|       |        |        |         | 10          | 12          | 1.588  | 0.0009      | -2.5 to 2.5 | Pass |
|       |        |        |         | 30          | 12          | -0.215 | -0.0001     | -2.5 to 2.5 | Pass |
|       |        |        |         | 40          | 12          | 2.289  | 0.0012      | -2.5 to 2.5 | Pass |
|       | 50     | 12     | 1.259   | 0.0007      | -2.5 to 2.5 | Pass   |             |             |      |
|       | 1882.5 | 25     | 0       | 20          | 10.8        | 2.389  | 0.0013      | -2.5 to 2.5 | Pass |
|       |        |        |         |             | 12          | 2.275  | 0.0012      | -2.5 to 2.5 | Pass |
|       |        |        |         |             | 13.2        | 2.933  | 0.0016      | -2.5 to 2.5 | Pass |
|       |        |        |         | -30         | 12          | 1.445  | 0.0008      | -2.5 to 2.5 | Pass |
|       |        |        |         | -20         | 12          | 1.473  | 0.0008      | -2.5 to 2.5 | Pass |
|       |        |        |         | -10         | 12          | 1.616  | 0.0009      | -2.5 to 2.5 | Pass |
|       |        |        |         | 0           | 12          | 2.332  | 0.0012      | -2.5 to 2.5 | Pass |
|       |        |        |         | 10          | 12          | 4.663  | 0.0025      | -2.5 to 2.5 | Pass |
|       |        |        |         | 30          | 12          | 1.030  | 0.0005      | -2.5 to 2.5 | Pass |
|       |        |        |         | 40          | 12          | 4.206  | 0.0022      | -2.5 to 2.5 | Pass |
|       | 50     | 12     | 4.163   | 0.0022      | -2.5 to 2.5 | Pass   |             |             |      |
|       | 1912.5 | 25     | 0       | 20          | 10.8        | 6.380  | 0.0033      | -2.5 to 2.5 | Pass |
|       |        |        |         |             | 12          | 4.950  | 0.0026      | -2.5 to 2.5 | Pass |
|       |        |        |         |             | 13.2        | 0.672  | 0.0004      | -2.5 to 2.5 | Pass |
|       |        |        |         | -30         | 12          | 1.173  | 0.0006      | -2.5 to 2.5 | Pass |
|       |        |        |         | -20         | 12          | 5.436  | 0.0028      | -2.5 to 2.5 | Pass |
|       |        |        |         | -10         | 12          | 5.636  | 0.0029      | -2.5 to 2.5 | Pass |
|       |        |        |         | 0           | 12          | 5.708  | 0.0030      | -2.5 to 2.5 | Pass |
|       |        |        |         | 10          | 12          | 3.476  | 0.0018      | -2.5 to 2.5 | Pass |
| 30    |        |        |         | 12          | 2.689       | 0.0014 | -2.5 to 2.5 | Pass        |      |
| 40    |        |        |         | 12          | 6.008       | 0.0031 | -2.5 to 2.5 | Pass        |      |
| 50    | 12     | -0.715 | -0.0004 | -2.5 to 2.5 | Pass        |        |             |             |      |
| 64QAM | 1852.5 | 25     | 0       | 20          | 10.8        | 4.864  | 0.0026      | -2.5 to 2.5 | Pass |
|       |        |        |         |             | 12          | 2.689  | 0.0015      | -2.5 to 2.5 | Pass |
|       |        |        |         |             | 13.2        | 5.078  | 0.0027      | -2.5 to 2.5 | Pass |
|       |        |        |         | -30         | 12          | 4.606  | 0.0025      | -2.5 to 2.5 | Pass |
|       |        |        |         | -20         | 12          | -0.672 | -0.0004     | -2.5 to 2.5 | Pass |
|       |        |        |         | -10         | 12          | 1.287  | 0.0007      | -2.5 to 2.5 | Pass |
|       |        |        |         | 0           | 12          | 4.892  | 0.0026      | -2.5 to 2.5 | Pass |
|       |        |        |         | 10          | 12          | 2.818  | 0.0015      | -2.5 to 2.5 | Pass |
|       |        |        |         | 30          | 12          | 2.003  | 0.0011      | -2.5 to 2.5 | Pass |
|       |        |        |         | 40          | 12          | 3.591  | 0.0019      | -2.5 to 2.5 | Pass |
|       | 50     | 12     | 1.431   | 0.0008      | -2.5 to 2.5 | Pass   |             |             |      |
|       | 1882.5 | 25     | 0       | 20          | 10.8        | 0.644  | 0.0003      | -2.5 to 2.5 | Pass |
|       |        |        |         |             | 12          | -1.817 | -0.0010     | -2.5 to 2.5 | Pass |
|       |        |        |         |             | 13.2        | 1.030  | 0.0005      | -2.5 to 2.5 | Pass |
|       |        |        |         | -30         | 12          | 10.86  | 0.0017      | -2.5 to 2.5 | Pass |
|       | -20    | 12     | 2.332   | 0.0012      | -2.5 to 2.5 | Pass   |             |             |      |



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|        |        |    |   |     |      |        |         |             |      |
|--------|--------|----|---|-----|------|--------|---------|-------------|------|
|        |        |    |   | -10 | 12   | 0.300  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 3.719  | 0.0020  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | -1.473 | -0.0008 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 4.592  | 0.0024  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 0.343  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 2.174  | 0.0012  | -2.5 to 2.5 | Pass |
|        | 1912.5 | 25 | 0 | 20  | 10.8 | 2.618  | 0.0014  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 1.001  | 0.0005  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | -0.987 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 5.722  | 0.0030  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 1.345  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 2.689  | 0.0014  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -0.343 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 1.202  | 0.0006  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 6.094  | 0.0032  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 0.587  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 5.951  | 0.0031  | -2.5 to 2.5 | Pass |
| 256QAM | 1852.5 | 25 | 0 | 20  | 10.8 | 4.592  | 0.0025  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 1.602  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 2.160  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 0.887  | 0.0005  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 2.146  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 3.190  | 0.0017  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 4.449  | 0.0024  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 3.448  | 0.0019  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | -0.916 | -0.0005 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -1.717 | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 0.215  | 0.0001  | -2.5 to 2.5 | Pass |
|        | 1882.5 | 25 | 0 | 20  | 10.8 | 4.148  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 5.393  | 0.0029  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 4.349  | 0.0023  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | -0.501 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 2.174  | 0.0012  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -0.143 | -0.0001 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 8.154  | 0.0043  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 0.386  | 0.0002  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 2.575  | 0.0014  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 1.817  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -2.317 | -0.0012 | -2.5 to 2.5 | Pass |
|        | 1912.5 | 25 | 0 | 20  | 10.8 | 3.777  | 0.0020  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 4.234  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 5.250  | 0.0027  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 6.437  | 0.0034  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -2.332 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 6.509  | 0.0034  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 1.988  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 2.589  | 0.0014  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | -2.017 | -0.0011 | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 0.486  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 6.809  | 0.0036  | -2.5 to 2.5 | Pass |

## 5.4 B25\_10MHz



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Test Report Form Version: Rev01

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## 5.4.1 Test Result

| Band: 25 / Bandwidth: 10MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 1855            | 50            | 0      | 20         | 10.8          | -0.901           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -4.907           | -0.0026               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -1.960           | -0.0011               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | -3.290           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | 2.489            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | -1.874           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | -1.588           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 0.815            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 5.593            | 0.0030                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | -1.831           | -0.0010               | -2.5 to 2.5 | Pass    |
|                             | 1882.5          | 50            | 0      | 20         | 10.8          | 2.089            | 0.0011                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | 1.402            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | 2.332            | 0.0012                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | 1.359            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | 0.529            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | 4.735            | 0.0025                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | 1.087            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 3.047            | 0.0016                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 0.029            | 0.0000                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | 1.202            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             | 1910            | 50            | 0      | 20         | 10.8          | -0.401           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | 2.260            | 0.0012                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | 0.429            | 0.0002                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | 1.230            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | 0.629            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | -0.443           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | 4.463            | 0.0023                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 7.181            | 0.0038                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 4.077            | 0.0021                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | 5.593            | 0.0029                | -2.5 to 2.5 | Pass    |
| 16QAM                       | 1855            | 50            | 0      | 20         | 10.8          | 4.621            | 0.0025                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | 4.764            | 0.0026                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | 2.975            | 0.0016                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | 2.418            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | 3.705            | 0.0020                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | -0.758           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | 6.323            | 0.0034                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 2.961            | 0.0016                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 4.048            | 0.0022                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | 0.987            | 0.0005                | -2.5 to 2.5 | Pass    |
|                             | 1882.5          | 50            | 0      | 20         | 10.8          | 1.144            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | 0.830            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -0.215           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | 2.389            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | 0.587            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 20         | 10.8          | 1.144            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | 0.830            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -0.215           | -0.0001               | -2.5 to 2.5 | Pass    |



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|        |        |    |   |     |      |        |         |             |      |
|--------|--------|----|---|-----|------|--------|---------|-------------|------|
|        | 1910   | 50 | 0 | -10 | 12   | 1.431  | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 1.831  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 1.945  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 4.334  | 0.0023  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 2.761  | 0.0015  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 5.779  | 0.0031  | -2.5 to 2.5 | Pass |
|        |        |    |   | 20  | 10.8 | 7.138  | 0.0037  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 5.794  | 0.0030  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 5.093  | 0.0027  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | -0.086 | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | -0.086 | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -2.074 | -0.0011 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | -0.830 | -0.0004 | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | -4.635 | -0.0024 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 1.402  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 1.259  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 2.947  | 0.0015  | -2.5 to 2.5 | Pass |
| 64QAM  | 1855   | 50 | 0 | 20  | 10.8 | 3.877  | 0.0021  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 2.947  | 0.0016  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 1.645  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 1.745  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 1.860  | 0.0010  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | -0.644 | -0.0003 | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 1.659  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | -1.588 | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 1.760  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -0.186 | -0.0001 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -1.674 | -0.0009 | -2.5 to 2.5 | Pass |
|        | 1882.5 | 50 | 0 | 20  | 10.8 | 4.191  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | 4.063  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 1.502  | 0.0008  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 0.486  | 0.0003  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 0.958  | 0.0005  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 1.745  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 1.202  | 0.0006  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 3.362  | 0.0018  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 1.259  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | 1.359  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | 0.930  | 0.0005  | -2.5 to 2.5 | Pass |
|        | 1910   | 50 | 0 | 20  | 10.8 | 0.257  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -1.788 | -0.0009 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | 1.702  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 1.302  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | -20 | 12   | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|        |        |    |   | -10 | 12   | 2.117  | 0.0011  | -2.5 to 2.5 | Pass |
|        |        |    |   | 0   | 12   | 0.100  | 0.0001  | -2.5 to 2.5 | Pass |
|        |        |    |   | 10  | 12   | 1.402  | 0.0007  | -2.5 to 2.5 | Pass |
|        |        |    |   | 30  | 12   | 4.134  | 0.0022  | -2.5 to 2.5 | Pass |
|        |        |    |   | 40  | 12   | -0.315 | -0.0002 | -2.5 to 2.5 | Pass |
|        |        |    |   | 50  | 12   | -2.604 | -0.0014 | -2.5 to 2.5 | Pass |
| 256QAM | 1855   | 50 | 0 | 20  | 10.8 | 1.659  | 0.0009  | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 12   | -2.303 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   |     | 13.2 | -2.217 | -0.0012 | -2.5 to 2.5 | Pass |
|        |        |    |   | -30 | 12   | 0.615  | 0.0003  | -2.5 to 2.5 | Pass |



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|  |        |    |   |     |      |        |         |             |      |
|--|--------|----|---|-----|------|--------|---------|-------------|------|
|  |        |    |   | -20 | 12   | -2.289 | -0.0012 | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 12   | 0.672  | 0.0004  | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 12   | 0.243  | 0.0001  | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 12   | -2.861 | -0.0015 | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 12   | 0.000  | 0.0000  | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 12   | 1.674  | 0.0009  | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 12   | 1.974  | 0.0011  | -2.5 to 2.5 | Pass |
|  | 1882.5 | 50 | 0 | 20  | 10.8 | -0.944 | -0.0005 | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 12   | 3.490  | 0.0019  | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 13.2 | 3.505  | 0.0019  | -2.5 to 2.5 | Pass |
|  |        |    |   | -30 | 12   | -1.974 | -0.0010 | -2.5 to 2.5 | Pass |
|  |        |    |   | -20 | 12   | 0.415  | 0.0002  | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 12   | -1.159 | -0.0006 | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 12   | 4.106  | 0.0022  | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 12   | -0.086 | 0.0000  | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 12   | 2.904  | 0.0015  | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 12   | 1.431  | 0.0008  | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 12   | -0.644 | -0.0003 | -2.5 to 2.5 | Pass |
|  | 1910   | 50 | 0 | 20  | 10.8 | -1.073 | -0.0006 | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 12   | -0.801 | -0.0004 | -2.5 to 2.5 | Pass |
|  |        |    |   |     | 13.2 | 2.189  | 0.0011  | -2.5 to 2.5 | Pass |
|  |        |    |   | -30 | 12   | -0.472 | -0.0002 | -2.5 to 2.5 | Pass |
|  |        |    |   | -20 | 12   | 0.415  | 0.0002  | -2.5 to 2.5 | Pass |
|  |        |    |   | -10 | 12   | -0.916 | -0.0005 | -2.5 to 2.5 | Pass |
|  |        |    |   | 0   | 12   | 1.030  | 0.0005  | -2.5 to 2.5 | Pass |
|  |        |    |   | 10  | 12   | 1.330  | 0.0007  | -2.5 to 2.5 | Pass |
|  |        |    |   | 30  | 12   | -0.429 | -0.0002 | -2.5 to 2.5 | Pass |
|  |        |    |   | 40  | 12   | -2.475 | -0.0013 | -2.5 to 2.5 | Pass |
|  |        |    |   | 50  | 12   | -2.904 | -0.0015 | -2.5 to 2.5 | Pass |

## 5.5 B25\_15MHz

### 5.5.1 Test Result

| Band: 25 / Bandwidth: 15MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 1857.5          | 75            | 0      | 20         | 10.8          | 2.718            | 0.0015                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -0.787           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -0.386           | -0.0002               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | -0.973           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | -0.515           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | 0.272            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | -3.161           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 2.503            | 0.0013                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | -1.173           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | -1.974           | -0.0011               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 12            | -1.559           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             | 1882.5          | 75            | 0      | 20         | 10.8          | -3.934           | -0.0021               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -1.316           | -0.0007               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -0.257           | -0.0001               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | -0.143           | -0.0001               | -2.5 to 2.5 | Pass    |



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|       |        |        |         |        |        |         |             |             |        |         |             |      |
|-------|--------|--------|---------|--------|--------|---------|-------------|-------------|--------|---------|-------------|------|
|       |        |        |         | -20    | 12     | -0.029  | 0.0000      | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | -10    | 12     | -3.934  | -0.0021     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 0      | 12     | -2.232  | -0.0012     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 10     | 12     | 0.014   | 0.0000      | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 30     | 12     | -0.944  | -0.0005     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 40     | 12     | -2.561  | -0.0014     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 50     | 12     | 1.831   | 0.0010      | -2.5 to 2.5 | Pass   |         |             |      |
|       | 1907.5 | 75     | 0       | 20     | 10.8   | -3.347  | -0.0018     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         |        | 12     | -0.730  | -0.0004     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         |        | 13.2   | -2.832  | -0.0015     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | -30    | 12     | -1.531  | -0.0008     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | -20    | 12     | -1.802  | -0.0009     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | -10    | 12     | -3.119  | -0.0016     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 0      | 12     | -1.774  | -0.0009     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 10     | 12     | -1.974  | -0.0010     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 30     | 12     | 0.486   | 0.0003      | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 40     | 12     | 4.535   | 0.0024      | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 50     | 12     | 0.958   | 0.0005      | -2.5 to 2.5 | Pass   |         |             |      |
| 16QAM | 1857.5 | 75     | 0       | 20     | 10.8   | 0.315   | 0.0002      | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         |        | 12     | -1.988  | -0.0011     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         |        | 13.2   | -0.401  | -0.0002     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | -30    | 12     | 2.089   | 0.0011      | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | -20    | 12     | 0.958   | 0.0005      | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | -10    | 12     | 0.129   | 0.0001      | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 0      | 12     | 1.187   | 0.0006      | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 10     | 12     | 1.802   | 0.0010      | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 30     | 12     | -0.844  | -0.0005     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 40     | 12     | -2.503  | -0.0013     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 50     | 12     | 1.316   | 0.0007      | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | 1882.5 | 75     | 0       | 20          | 10.8        | 0.501  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |        |         |        |        |         |             | 12          | -2.861 | -0.0015 | -2.5 to 2.5 | Pass |
|       | 13.2   | -1.488 | -0.0008 |        |        |         |             | -2.5 to 2.5 | Pass   |         |             |      |
|       | -30    | 12     | -4.206  |        |        |         | -0.0022     | -2.5 to 2.5 | Pass   |         |             |      |
|       | -20    | 12     | 1.173   |        |        |         | 0.0006      | -2.5 to 2.5 | Pass   |         |             |      |
|       | -10    | 12     | -2.403  |        |        |         | -0.0013     | -2.5 to 2.5 | Pass   |         |             |      |
|       | 0      | 12     | -2.904  |        |        |         | -0.0015     | -2.5 to 2.5 | Pass   |         |             |      |
|       | 10     | 12     | -1.416  |        |        |         | -0.0008     | -2.5 to 2.5 | Pass   |         |             |      |
|       | 30     | 12     | 0.601   |        |        |         | 0.0003      | -2.5 to 2.5 | Pass   |         |             |      |
|       | 40     | 12     | 1.502   |        |        |         | 0.0008      | -2.5 to 2.5 | Pass   |         |             |      |
|       | 50     | 12     | 0.315   |        |        |         | 0.0002      | -2.5 to 2.5 | Pass   |         |             |      |
|       | 1907.5 | 75     | 0       |        |        |         | 20          | 10.8        | -1.731 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |        |         |        |        |         |             | 12          | -1.345 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |        |         | 13.2   | -0.286 | -0.0001 |             | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | -30    | 12     | 3.948   | 0.0021      | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         | -20    | 12     | 0.730   | 0.0004      | -2.5 to 2.5 | Pass   |         |             |      |
| -10   |        |        |         | 12     | 0.815  | 0.0004  | -2.5 to 2.5 | Pass        |        |         |             |      |
| 0     |        |        |         | 12     | 1.059  | 0.0006  | -2.5 to 2.5 | Pass        |        |         |             |      |
| 10    |        |        |         | 12     | -1.245 | -0.0007 | -2.5 to 2.5 | Pass        |        |         |             |      |
| 30    |        |        |         | 12     | 2.818  | 0.0015  | -2.5 to 2.5 | Pass        |        |         |             |      |
| 40    |        |        |         | 12     | -0.315 | -0.0002 | -2.5 to 2.5 | Pass        |        |         |             |      |
| 50    |        |        |         | 12     | 3.247  | 0.0017  | -2.5 to 2.5 | Pass        |        |         |             |      |
| 64QAM | 1857.5 | 75     | 0       | 20     | 10.8   | -1.774  | -0.0010     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         |        | 12     | -0.372  | -0.0002     | -2.5 to 2.5 | Pass   |         |             |      |
|       |        |        |         |        | 13.2   | -2.203  | -0.0012     | -2.5 to 2.5 | Pass   |         |             |      |



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|        |        |    |        |         |             |        |             |             |      |
|--------|--------|----|--------|---------|-------------|--------|-------------|-------------|------|
|        |        |    |        | -30     | 12          | 0.172  | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |    |        | -20     | 12          | -0.215 | -0.0001     | -2.5 to 2.5 | Pass |
|        |        |    |        | -10     | 12          | 1.130  | 0.0006      | -2.5 to 2.5 | Pass |
|        |        |    |        | 0       | 12          | -0.401 | -0.0002     | -2.5 to 2.5 | Pass |
|        |        |    |        | 10      | 12          | 1.216  | 0.0007      | -2.5 to 2.5 | Pass |
|        |        |    |        | 30      | 12          | -0.701 | -0.0004     | -2.5 to 2.5 | Pass |
|        |        |    |        | 40      | 12          | 1.631  | 0.0009      | -2.5 to 2.5 | Pass |
|        |        |    |        | 50      | 12          | -2.403 | -0.0013     | -2.5 to 2.5 | Pass |
|        | 1882.5 | 75 | 0      | 20      | 10.8        | 0.057  | 0.0000      | -2.5 to 2.5 | Pass |
|        |        |    |        |         | 12          | 2.546  | 0.0014      | -2.5 to 2.5 | Pass |
|        |        |    |        |         | 13.2        | 0.000  | 0.0000      | -2.5 to 2.5 | Pass |
|        |        |    |        | -30     | 12          | -2.246 | -0.0012     | -2.5 to 2.5 | Pass |
|        |        |    |        | -20     | 12          | 0.587  | 0.0003      | -2.5 to 2.5 | Pass |
|        |        |    |        | -10     | 12          | 3.262  | 0.0017      | -2.5 to 2.5 | Pass |
|        |        |    |        | 0       | 12          | 0.458  | 0.0002      | -2.5 to 2.5 | Pass |
|        |        |    |        | 10      | 12          | -0.758 | -0.0004     | -2.5 to 2.5 | Pass |
|        |        |    |        | 30      | 12          | -1.388 | -0.0007     | -2.5 to 2.5 | Pass |
|        |        |    |        | 40      | 12          | -0.644 | -0.0003     | -2.5 to 2.5 | Pass |
|        | 50     | 12 | -0.429 | -0.0002 | -2.5 to 2.5 | Pass   |             |             |      |
|        | 1907.5 | 75 | 0      | 20      | 10.8        | 0.358  | 0.0002      | -2.5 to 2.5 | Pass |
|        |        |    |        |         | 12          | 0.415  | 0.0002      | -2.5 to 2.5 | Pass |
|        |        |    |        |         | 13.2        | 0.186  | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |    |        | -30     | 12          | 3.219  | 0.0017      | -2.5 to 2.5 | Pass |
|        |        |    |        | -20     | 12          | 4.191  | 0.0022      | -2.5 to 2.5 | Pass |
|        |        |    |        | -10     | 12          | 2.589  | 0.0014      | -2.5 to 2.5 | Pass |
|        |        |    |        | 0       | 12          | -0.815 | -0.0004     | -2.5 to 2.5 | Pass |
|        |        |    |        | 10      | 12          | 0.544  | 0.0003      | -2.5 to 2.5 | Pass |
|        |        |    |        | 30      | 12          | -0.329 | -0.0002     | -2.5 to 2.5 | Pass |
|        |        |    |        | 40      | 12          | 1.760  | 0.0009      | -2.5 to 2.5 | Pass |
|        | 50     | 12 | 6.065  | 0.0032  | -2.5 to 2.5 | Pass   |             |             |      |
| 256QAM | 1857.5 | 75 | 0      | 20      | 10.8        | -4.063 | -0.0022     | -2.5 to 2.5 | Pass |
|        |        |    |        |         | 12          | 3.004  | 0.0016      | -2.5 to 2.5 | Pass |
|        |        |    |        |         | 13.2        | 1.674  | 0.0009      | -2.5 to 2.5 | Pass |
|        |        |    |        | -30     | 12          | 0.029  | 0.0000      | -2.5 to 2.5 | Pass |
|        |        |    |        | -20     | 12          | 1.473  | 0.0008      | -2.5 to 2.5 | Pass |
|        |        |    |        | -10     | 12          | 5.322  | 0.0029      | -2.5 to 2.5 | Pass |
|        |        |    |        | 0       | 12          | 1.130  | 0.0006      | -2.5 to 2.5 | Pass |
|        |        |    |        | 10      | 12          | 2.589  | 0.0014      | -2.5 to 2.5 | Pass |
|        |        |    |        | 30      | 12          | 2.890  | 0.0016      | -2.5 to 2.5 | Pass |
|        |        |    |        | 40      | 12          | 2.818  | 0.0015      | -2.5 to 2.5 | Pass |
|        | 50     | 12 | -0.629 | -0.0003 | -2.5 to 2.5 | Pass   |             |             |      |
|        | 1882.5 | 75 | 0      | 20      | 10.8        | -1.874 | -0.0010     | -2.5 to 2.5 | Pass |
|        |        |    |        |         | 12          | -1.431 | -0.0008     | -2.5 to 2.5 | Pass |
|        |        |    |        |         | 13.2        | -2.217 | -0.0012     | -2.5 to 2.5 | Pass |
|        |        |    |        | -30     | 12          | 0.358  | 0.0002      | -2.5 to 2.5 | Pass |
|        |        |    |        | -20     | 12          | -0.186 | -0.0001     | -2.5 to 2.5 | Pass |
|        |        |    |        | -10     | 12          | -2.060 | -0.0011     | -2.5 to 2.5 | Pass |
|        |        |    |        | 0       | 12          | -2.589 | -0.0014     | -2.5 to 2.5 | Pass |
|        |        |    |        | 10      | 12          | 0.544  | 0.0003      | -2.5 to 2.5 | Pass |
|        |        |    |        | 30      | 12          | 0.229  | 0.0001      | -2.5 to 2.5 | Pass |
|        |        |    |        | 40      | 12          | -2.990 | -0.0016     | -2.5 to 2.5 | Pass |
|        | 50     | 12 | -0.386 | -0.0002 | -2.5 to 2.5 | Pass   |             |             |      |
| 1907.5 | 75     | 0  | 20     | 10.8    | 3.433       | 0.0018 | -2.5 to 2.5 | Pass        |      |
|        |        |    |        | 12      | 3.762       | 0.0020 | -2.5 to 2.5 | Pass        |      |



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|  |  |  |     |      |        |         |             |      |
|--|--|--|-----|------|--------|---------|-------------|------|
|  |  |  |     | 13.2 | 4.878  | 0.0026  | -2.5 to 2.5 | Pass |
|  |  |  | -30 | 12   | 5.150  | 0.0027  | -2.5 to 2.5 | Pass |
|  |  |  | -20 | 12   | 4.249  | 0.0022  | -2.5 to 2.5 | Pass |
|  |  |  | -10 | 12   | 3.233  | 0.0017  | -2.5 to 2.5 | Pass |
|  |  |  | 0   | 12   | 5.364  | 0.0028  | -2.5 to 2.5 | Pass |
|  |  |  | 10  | 12   | 4.420  | 0.0023  | -2.5 to 2.5 | Pass |
|  |  |  | 30  | 12   | -0.329 | -0.0002 | -2.5 to 2.5 | Pass |
|  |  |  | 40  | 12   | 3.791  | 0.0020  | -2.5 to 2.5 | Pass |
|  |  |  | 50  | 12   | 5.150  | 0.0027  | -2.5 to 2.5 | Pass |

## 5.6 B25\_20MHz

### 5.6.1 Test Result

| Band: 25 / Bandwidth: 20MHz |                 |               |        |            |               |                  |                       |             |         |
|-----------------------------|-----------------|---------------|--------|------------|---------------|------------------|-----------------------|-------------|---------|
| Modulation                  | Frequency (MHz) | RB Allocation |        | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|                             |                 | Size          | Offset |            |               |                  | Result                | Limit       |         |
| QPSK                        | 1860            | 100           | 0      | 20         | 10.8          | -1.187           | -0.0006               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -1.674           | -0.0009               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | 0.143            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | 1.459            | 0.0008                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | -4.849           | -0.0026               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | -0.916           | -0.0005               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | 2.775            | 0.0015                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 3.548            | 0.0019                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 2.675            | 0.0014                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | 0.529            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 12            | 0.830            | 0.0004                | -2.5 to 2.5 | Pass    |
|                             | 1882.5          | 100           | 0      | 20         | 10.8          | 0.129            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -0.844           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | -3.204           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | -5.093           | -0.0027               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | -2.432           | -0.0013               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | 0.644            | 0.0003                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | -1.488           | -0.0008               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | -0.758           | -0.0004               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | -3.462           | -0.0018               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | -3.262           | -0.0017               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 50         | 12            | 1.130            | 0.0006                | -2.5 to 2.5 | Pass    |
|                             | 1905            | 100           | 0      | 20         | 10.8          | -0.501           | -0.0003               | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | 3.390            | 0.0018                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 13.2          | 3.676            | 0.0019                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -30        | 12            | 3.147            | 0.0017                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -20        | 12            | 2.918            | 0.0015                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | -10        | 12            | 1.373            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 0          | 12            | 2.017            | 0.0011                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 10         | 12            | 1.345            | 0.0007                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 30         | 12            | 0.257            | 0.0001                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        | 40         | 12            | -0.072           | 0.0000                | -2.5 to 2.5 | Pass    |
| 16QAM                       | 1860            | 100           | 0      | 20         | 10.8          | 4.191            | 0.0023                | -2.5 to 2.5 | Pass    |
|                             |                 |               |        |            | 12            | -2.289           | -0.0012               | -2.5 to 2.5 | Pass    |



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|       |        |     |   |     |      |        |         |             |      |
|-------|--------|-----|---|-----|------|--------|---------|-------------|------|
| 64QAM |        |     |   |     | 13.2 | 3.619  | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |     |   | -30 | 12   | 1.931  | 0.0010  | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 12   | -1.330 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 12   | 2.203  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 12   | 2.489  | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 12   | 2.489  | 0.0013  | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 12   | 2.275  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 12   | 4.349  | 0.0023  | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 12   | 0.300  | 0.0002  | -2.5 to 2.5 | Pass |
|       | 1882.5 | 100 | 0 | 20  | 10.8 | -2.060 | -0.0011 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 12   | -4.907 | -0.0026 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 13.2 | -2.260 | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |     |   | -30 | 12   | -1.616 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 12   | -3.662 | -0.0019 | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 12   | -3.119 | -0.0017 | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 12   | -1.616 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 12   | -0.587 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 12   | -2.832 | -0.0015 | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 12   | -3.362 | -0.0018 | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 12   | -0.544 | -0.0003 | -2.5 to 2.5 | Pass |
|       |        |     |   | 20  | 10.8 | 3.633  | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 12   | -2.317 | -0.0012 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 13.2 | -1.917 | -0.0010 | -2.5 to 2.5 | Pass |
|       | 1905   | 100 | 0 | -30 | 12   | -0.129 | -0.0001 | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 12   | 0.715  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 12   | 3.691  | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 12   | -0.787 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 12   | 3.004  | 0.0016  | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 12   | 0.916  | 0.0005  | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 12   | -0.672 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 12   | 3.648  | 0.0019  | -2.5 to 2.5 | Pass |
|       |        |     |   | 20  | 10.8 | 2.246  | 0.0012  | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 12   | -0.658 | -0.0004 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 13.2 | -0.801 | -0.0004 | -2.5 to 2.5 | Pass |
|       | 1860   | 100 | 0 | -30 | 12   | 3.004  | 0.0016  | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 12   | -0.072 | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 12   | 0.114  | 0.0001  | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 12   | -1.488 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 12   | 3.133  | 0.0017  | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 12   | 1.073  | 0.0006  | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 12   | 3.648  | 0.0020  | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 12   | 5.064  | 0.0027  | -2.5 to 2.5 | Pass |
|       |        |     |   | 20  | 10.8 | -1.130 | -0.0006 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 12   | -1.645 | -0.0009 | -2.5 to 2.5 | Pass |
|       |        |     |   |     | 13.2 | -2.460 | -0.0013 | -2.5 to 2.5 | Pass |
|       | 1882.5 | 100 | 0 | -30 | 12   | 0.715  | 0.0004  | -2.5 to 2.5 | Pass |
|       |        |     |   | -20 | 12   | -1.373 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |     |   | -10 | 12   | -1.574 | -0.0008 | -2.5 to 2.5 | Pass |
|       |        |     |   | 0   | 12   | -1.345 | -0.0007 | -2.5 to 2.5 | Pass |
|       |        |     |   | 10  | 12   | -0.014 | 0.0000  | -2.5 to 2.5 | Pass |
|       |        |     |   | 30  | 12   | -0.944 | -0.0005 | -2.5 to 2.5 | Pass |
|       |        |     |   | 40  | 12   | 0.529  | 0.0003  | -2.5 to 2.5 | Pass |
|       |        |     |   | 50  | 12   | -5.136 | -0.0027 | -2.5 to 2.5 | Pass |
|       | 1905   | 100 | 0 | 20  | 10.8 | 0.229  | 0.0001  | -2.5 to 2.5 | Pass |



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