

## Appendix T-4G Frequency Stability

## Frequency Stability

| Band                  | Freq (MHz) | Lower Edge (MHz) (Result) | Limit (1850MHz) | Upper Edge(MHz) (Result) | Limit (1910MHz) | Environment              |
|-----------------------|------------|---------------------------|-----------------|--------------------------|-----------------|--------------------------|
| 20MHz Bandwidth QPSK  |            |                           |                 |                          |                 |                          |
| 2                     | 1860/1900  | 1850.0779                 | 1850.000        | 1909.9606                | 1910.000        | 20℃/3.45V <sub>DC</sub>  |
| 2                     | 1860/1900  | 1850.1429                 | 1850.000        | 1909.9747                | 1910.000        | 20℃/4.4V <sub>DC</sub>   |
| 2                     | 1860/1900  | 1850.1499                 | 1850.000        | 1909.9393                | 1910.000        | -30℃/3.85V <sub>DC</sub> |
| 2                     | 1860/1900  | 1850.1273                 | 1850.000        | 1909.9417                | 1910.000        | -20℃/3.85V <sub>DC</sub> |
| 2                     | 1860/1900  | 1850.0220                 | 1850.000        | 1909.9718                | 1910.000        | -10℃/3.85V <sub>DC</sub> |
| 2                     | 1860/1900  | 1850.0900                 | 1850.000        | 1909.7956                | 1910.000        | 0℃/3.85V <sub>DC</sub>   |
| 2                     | 1860/1900  | 1850.0483                 | 1850.000        | 1909.9213                | 1910.000        | 10℃/3.85V <sub>DC</sub>  |
| 2                     | 1860/1900  | 1850.0897                 | 1850.000        | 1909.8915                | 1910.000        | 20℃/3.85V <sub>DC</sub>  |
| 2                     | 1860/1900  | 1850.1486                 | 1850.000        | 1909.8388                | 1910.000        | 30℃/3.85V <sub>DC</sub>  |
| 2                     | 1860/1900  | 1850.1915                 | 1850.000        | 1909.9466                | 1910.000        | 40℃/3.85V <sub>DC</sub>  |
| 2                     | 1860/1900  | 1850.0965                 | 1850.000        | 1909.9676                | 1910.000        | 50℃/3.85V <sub>DC</sub>  |
| 20MHz Bandwidth 16QAM |            |                           |                 |                          |                 |                          |
| 2                     | 1860/1900  | 1850.1131                 | 1850.000        | 1909.9998                | 1910.000        | 20℃/3.45V <sub>DC</sub>  |
| 2                     | 1860/1900  | 1850.0923                 | 1850.000        | 1909.9522                | 1910.000        | 20℃/4.4V <sub>DC</sub>   |
| 2                     | 1860/1900  | 1850.1526                 | 1850.000        | 1909.9138                | 1910.000        | -30℃/3.85V <sub>DC</sub> |
| 2                     | 1860/1900  | 1850.1310                 | 1850.000        | 1909.9320                | 1910.000        | -20℃/3.85V <sub>DC</sub> |
| 2                     | 1860/1900  | 1850.0392                 | 1850.000        | 1909.9317                | 1910.000        | -10℃/3.85V <sub>DC</sub> |
| 2                     | 1860/1900  | 1850.0574                 | 1850.000        | 1909.8447                | 1910.000        | 0℃/3.85V <sub>DC</sub>   |
| 2                     | 1860/1900  | 1850.0523                 | 1850.000        | 1909.8968                | 1910.000        | 10℃/3.85V <sub>DC</sub>  |
| 2                     | 1860/1900  | 1850.1275                 | 1850.000        | 1909.9057                | 1910.000        | 20℃/3.85V <sub>DC</sub>  |
| 2                     | 1860/1900  | 1850.1710                 | 1850.000        | 1909.8582                | 1910.000        | 30℃/3.85V <sub>DC</sub>  |
| 2                     | 1860/1900  | 1850.2049                 | 1850.000        | 1909.9234                | 1910.000        | 40℃/3.85V <sub>DC</sub>  |
| 2                     | 1860/1900  | 1850.1024                 | 1850.000        | 1909.9504                | 1910.000        | 50℃/3.85V <sub>DC</sub>  |

| Band                         | Freq (MHz) | Lower Edge (MHz) (Result) | Limit (1710MHz) | Upper Edge(MHz) (Result) | Limit (1755MHz) | Environment              |
|------------------------------|------------|---------------------------|-----------------|--------------------------|-----------------|--------------------------|
| <b>20MHz Bandwidth QPSK</b>  |            |                           |                 |                          |                 |                          |
| 4                            | 1720/1745  | 1710.1398                 | 1710.000        | 1754.8771                | 1755.000        | 20℃/3.45V <sub>DC</sub>  |
| 4                            | 1720/1745  | 1710.1367                 | 1710.000        | 1754.9290                | 1755.000        | 20℃/4.4V <sub>DC</sub>   |
| 4                            | 1720/1745  | 1710.1582                 | 1710.000        | 1754.8240                | 1755.000        | -30℃/3.85V <sub>DC</sub> |
| 4                            | 1720/1745  | 1710.0436                 | 1710.000        | 1754.8595                | 1755.000        | -20℃/3.85V <sub>DC</sub> |
| 4                            | 1720/1745  | 1710.0749                 | 1710.000        | 1754.9318                | 1755.000        | -10℃/3.85V <sub>DC</sub> |
| 4                            | 1720/1745  | 1710.0541                 | 1710.000        | 1754.9558                | 1755.000        | 0℃/3.85V <sub>DC</sub>   |
| 4                            | 1720/1745  | 1710.0892                 | 1710.000        | 1754.9780                | 1755.000        | 10℃/3.85V <sub>DC</sub>  |
| 4                            | 1720/1745  | 1710.0958                 | 1710.000        | 1754.8380                | 1755.000        | 20℃/3.85V <sub>DC</sub>  |
| 4                            | 1720/1745  | 1710.1080                 | 1710.000        | 1754.8897                | 1755.000        | 30℃/3.85V <sub>DC</sub>  |
| 4                            | 1720/1745  | 1710.1762                 | 1710.000        | 1754.8119                | 1755.000        | 40℃/3.85V <sub>DC</sub>  |
| 4                            | 1720/1745  | 1710.1410                 | 1710.000        | 1754.8571                | 1755.000        | 50℃/3.85V <sub>DC</sub>  |
| <b>20MHz Bandwidth 16QAM</b> |            |                           |                 |                          |                 |                          |
| 4                            | 1720/1745  | 1710.1152                 | 1710.000        | 1754.8709                | 1755.000        | 20℃/3.45V <sub>DC</sub>  |
| 4                            | 1720/1745  | 1710.1741                 | 1710.000        | 1754.9924                | 1755.000        | 20℃/4.4V <sub>DC</sub>   |
| 4                            | 1720/1745  | 1710.1767                 | 1710.000        | 1754.8144                | 1755.000        | -30℃/3.85V <sub>DC</sub> |
| 4                            | 1720/1745  | 1710.0643                 | 1710.000        | 1754.8142                | 1755.000        | -20℃/3.85V <sub>DC</sub> |
| 4                            | 1720/1745  | 1710.0712                 | 1710.000        | 1754.9095                | 1755.000        | -10℃/3.85V <sub>DC</sub> |
| 4                            | 1720/1745  | 1710.0318                 | 1710.000        | 1754.9540                | 1755.000        | 0℃/3.85V <sub>DC</sub>   |
| 4                            | 1720/1745  | 1710.0700                 | 1710.000        | 1754.9691                | 1755.000        | 10℃/3.85V <sub>DC</sub>  |
| 4                            | 1720/1745  | 1710.0738                 | 1710.000        | 1754.8612                | 1755.000        | 20℃/3.85V <sub>DC</sub>  |
| 4                            | 1720/1745  | 1710.1336                 | 1710.000        | 1754.8570                | 1755.000        | 30℃/3.85V <sub>DC</sub>  |
| 4                            | 1720/1745  | 1710.1703                 | 1710.000        | 1754.8470                | 1755.000        | 40℃/3.85V <sub>DC</sub>  |
| 4                            | 1720/1745  | 1710.1940                 | 1710.000        | 1754.8543                | 1755.000        | 50℃/3.85V <sub>DC</sub>  |

## Band 5

| Test Modulation:                    | QPSK             |               | Test Channel:   | 836.5MHz |       |
|-------------------------------------|------------------|---------------|-----------------|----------|-------|
| Test Item                           | Temperature (°C) | Voltage (VDC) | Frequency Error |          | Limit |
|                                     |                  |               | (Hz)            | (ppm)    | (ppm) |
| Frequency Stability vs. Temperature | -30              | 3.85          | 8.38            | 0.01002  | 2.5   |
|                                     | -20              | 3.85          | 5.64            | 0.00674  | 2.5   |
|                                     | -10              | 3.85          | 1.89            | 0.00226  | 2.5   |
|                                     | 0                | 3.85          | 5.09            | 0.00608  | 2.5   |
|                                     | 10               | 3.85          | 3.60            | 0.00430  | 2.5   |
|                                     | 20               | 3.85          | 5.25            | 0.00628  | 2.5   |
|                                     | 30               | 3.85          | 8.46            | 0.01011  | 2.5   |
|                                     | 40               | 3.85          | 6.96            | 0.00832  | 2.5   |
|                                     | 50               | 3.85          | 5.11            | 0.00611  | 2.5   |
| Frequency Stability vs. Voltage     | 20               | 3.45          | 1.65            | 0.00197  | 2.5   |
|                                     | 20               | 4.40          | 0.72            | 0.00086  | 2.5   |

| Test Modulation:                    | 16QAM            |               | Test Channel:   | 836.5MHz |       |
|-------------------------------------|------------------|---------------|-----------------|----------|-------|
| Test Item                           | Temperature (°C) | Voltage (VDC) | Frequency Error |          | Limit |
|                                     |                  |               | (Hz)            | (ppm)    | (ppm) |
| Frequency Stability vs. Temperature | -30              | 3.85          | 6.29            | 0.00752  | 2.5   |
|                                     | -20              | 3.85          | 2.11            | 0.00252  | 2.5   |
|                                     | -10              | 3.85          | -8.90           | -0.01064 | 2.5   |
|                                     | 0                | 3.85          | 6.91            | 0.00826  | 2.5   |
|                                     | 10               | 3.85          | 6.74            | 0.00806  | 2.5   |
|                                     | 20               | 3.85          | -4.64           | -0.00555 | 2.5   |
|                                     | 30               | 3.85          | 1.28            | 0.00153  | 2.5   |
|                                     | 40               | 3.85          | 6.98            | 0.00834  | 2.5   |
|                                     | 50               | 3.85          | -4.39           | -0.00525 | 2.5   |
| Frequency Stability vs. Voltage     | 20               | 3.45          | 2.96            | 0.00354  | 2.5   |
|                                     | 20               | 4.40          | 3.42            | 0.00409  | 2.5   |

| Band                         | Freq (MHz) | Lower Edge (MHz) (Result) | Limit (2500MHz) | Upper Edge(MHz) (Result) | Limit (2570MHz) | Environment              |
|------------------------------|------------|---------------------------|-----------------|--------------------------|-----------------|--------------------------|
| <b>20MHz Bandwidth QPSK</b>  |            |                           |                 |                          |                 |                          |
| 7                            | 2510/2560  | 2500.1853                 | 2500.000        | 2569.9159                | 2570.000        | 20℃/3.45V <sub>DC</sub>  |
| 7                            | 2510/2560  | 2500.0712                 | 2500.000        | 2569.9677                | 2570.000        | 20℃/4.4V <sub>DC</sub>   |
| 7                            | 2510/2560  | 2500.1476                 | 2500.000        | 2569.8685                | 2570.000        | -30℃/3.85V <sub>DC</sub> |
| 7                            | 2510/2560  | 2500.0890                 | 2500.000        | 2569.9490                | 2570.000        | -20℃/3.85V <sub>DC</sub> |
| 7                            | 2510/2560  | 2500.0412                 | 2500.000        | 2569.9084                | 2570.000        | -10℃/3.85V <sub>DC</sub> |
| 7                            | 2510/2560  | 2500.1224                 | 2500.000        | 2569.9245                | 2570.000        | 0℃/3.85V <sub>DC</sub>   |
| 7                            | 2510/2560  | 2500.1869                 | 2500.000        | 2569.8384                | 2570.000        | 10℃/3.85V <sub>DC</sub>  |
| 7                            | 2510/2560  | 2500.0369                 | 2500.000        | 2569.8398                | 2570.000        | 20℃/3.85V <sub>DC</sub>  |
| 7                            | 2510/2560  | 2500.1054                 | 2500.000        | 2569.8652                | 2570.000        | 30℃/3.85V <sub>DC</sub>  |
| 7                            | 2510/2560  | 2500.1659                 | 2500.000        | 2569.9128                | 2570.000        | 40℃/3.85V <sub>DC</sub>  |
| 7                            | 2510/2560  | 2500.1920                 | 2500.000        | 2569.9045                | 2570.000        | 50℃/3.85V <sub>DC</sub>  |
| <b>20MHz Bandwidth 16QAM</b> |            |                           |                 |                          |                 |                          |
| 7                            | 2510/2560  | 2500.1535                 | 2500.000        | 2569.8980                | 2570.000        | 20℃/3.45V <sub>DC</sub>  |
| 7                            | 2510/2560  | 2500.1008                 | 2500.000        | 2569.9448                | 2570.000        | 20℃/4.4V <sub>DC</sub>   |
| 7                            | 2510/2560  | 2500.1240                 | 2500.000        | 2569.8645                | 2570.000        | -30℃/3.85V <sub>DC</sub> |
| 7                            | 2510/2560  | 2500.0774                 | 2500.000        | 2569.9767                | 2570.000        | -20℃/3.85V <sub>DC</sub> |
| 7                            | 2510/2560  | 2500.0297                 | 2500.000        | 2569.8997                | 2570.000        | -10℃/3.85V <sub>DC</sub> |
| 7                            | 2510/2560  | 2500.1428                 | 2500.000        | 2569.9099                | 2570.000        | 0℃/3.85V <sub>DC</sub>   |
| 7                            | 2510/2560  | 2500.1974                 | 2500.000        | 2569.8735                | 2570.000        | 10℃/3.85V <sub>DC</sub>  |
| 7                            | 2510/2560  | 2500.0567                 | 2500.000        | 2569.8044                | 2570.000        | 20℃/3.85V <sub>DC</sub>  |
| 7                            | 2510/2560  | 2500.0948                 | 2500.000        | 2569.8439                | 2570.000        | 30℃/3.85V <sub>DC</sub>  |
| 7                            | 2510/2560  | 2500.1896                 | 2500.000        | 2569.9460                | 2570.000        | 40℃/3.85V <sub>DC</sub>  |
| 7                            | 2510/2560  | 2500.2083                 | 2500.000        | 2569.8679                | 2570.000        | 50℃/3.85V <sub>DC</sub>  |

| Band                         | Freq (MHz) | Lower Edge (MHz) (Result) | Limit (699MHz) | Upper Edge(MHz) (Result) | Limit (716MHz) | Environment              |
|------------------------------|------------|---------------------------|----------------|--------------------------|----------------|--------------------------|
| <b>10MHz Bandwidth QPSK</b>  |            |                           |                |                          |                |                          |
| 12                           | 704/711    | 699.1738                  | 699.000        | 715.9044                 | 716.000        | 20℃/3.45V <sub>DC</sub>  |
| 12                           | 704/711    | 699.1103                  | 699.000        | 715.8994                 | 716.000        | 20℃/4.4V <sub>DC</sub>   |
| 12                           | 704/711    | 699.1172                  | 699.000        | 715.9932                 | 716.000        | -30℃/3.85V <sub>DC</sub> |
| 12                           | 704/711    | 699.1082                  | 699.000        | 715.8762                 | 716.000        | -20℃/3.85V <sub>DC</sub> |
| 12                           | 704/711    | 699.0036                  | 699.000        | 715.9459                 | 716.000        | -10℃/3.85V <sub>DC</sub> |
| 12                           | 704/711    | 699.1198                  | 699.000        | 715.8037                 | 716.000        | 0℃/3.85V <sub>DC</sub>   |
| 12                           | 704/711    | 699.0624                  | 699.000        | 715.9374                 | 716.000        | 10℃/3.85V <sub>DC</sub>  |
| 12                           | 704/711    | 699.0289                  | 699.000        | 715.9875                 | 716.000        | 20℃/3.85V <sub>DC</sub>  |
| 12                           | 704/711    | 699.1152                  | 699.000        | 715.8566                 | 716.000        | 30℃/3.85V <sub>DC</sub>  |
| 12                           | 704/711    | 699.0313                  | 699.000        | 715.9778                 | 716.000        | 40℃/3.85V <sub>DC</sub>  |
| 12                           | 704/711    | 699.1933                  | 699.000        | 715.8571                 | 716.000        | 50℃/3.85V <sub>DC</sub>  |
| <b>10MHz Bandwidth 16QAM</b> |            |                           |                |                          |                |                          |
| 12                           | 704/711    | 699.2087                  | 699.000        | 715.8933                 | 716.000        | 20℃/3.45V <sub>DC</sub>  |
| 12                           | 704/711    | 699.1334                  | 699.000        | 715.9438                 | 716.000        | 20℃/4.4V <sub>DC</sub>   |
| 12                           | 704/711    | 699.1204                  | 699.000        | 715.9737                 | 716.000        | -30℃/3.85V <sub>DC</sub> |
| 12                           | 704/711    | 699.1502                  | 699.000        | 715.8303                 | 716.000        | -20℃/3.85V <sub>DC</sub> |
| 12                           | 704/711    | 698.9927                  | 699.000        | 715.9471                 | 716.000        | -10℃/3.85V <sub>DC</sub> |
| 12                           | 704/711    | 699.1405                  | 699.000        | 715.8127                 | 716.000        | 0℃/3.85V <sub>DC</sub>   |
| 12                           | 704/711    | 699.0782                  | 699.000        | 715.9140                 | 716.000        | 10℃/3.85V <sub>DC</sub>  |
| 12                           | 704/711    | 699.0026                  | 699.000        | 715.9942                 | 716.000        | 20℃/3.85V <sub>DC</sub>  |
| 12                           | 704/711    | 699.0950                  | 699.000        | 715.8130                 | 716.000        | 30℃/3.85V <sub>DC</sub>  |
| 12                           | 704/711    | 699.0871                  | 699.000        | 715.9655                 | 716.000        | 40℃/3.85V <sub>DC</sub>  |
| 12                           | 704/711    | 699.2193                  | 699.000        | 715.8589                 | 716.000        | 50℃/3.85V <sub>DC</sub>  |

| Band                         | Freq (MHz) | Lower Edge (MHz) (Result) | Limit (777MHz) | Upper Edge(MHz) (Result) | Limit (787MHz) | Environment              |
|------------------------------|------------|---------------------------|----------------|--------------------------|----------------|--------------------------|
| <b>10MHz Bandwidth QPSK</b>  |            |                           |                |                          |                |                          |
| 13                           | 782        | 777.1283                  | 777.000        | 786.9808                 | 787.000        | 20℃/3.45V <sub>DC</sub>  |
| 13                           | 782        | 777.1428                  | 777.000        | 786.9848                 | 787.000        | 20℃/4.4V <sub>DC</sub>   |
| 13                           | 782        | 777.1304                  | 777.000        | 786.9346                 | 787.000        | -30℃/3.85V <sub>DC</sub> |
| 13                           | 782        | 777.1973                  | 777.000        | 786.8213                 | 787.000        | -20℃/3.85V <sub>DC</sub> |
| 13                           | 782        | 777.2156                  | 777.000        | 786.8966                 | 787.000        | -10℃/3.85V <sub>DC</sub> |
| 13                           | 782        | 777.0649                  | 777.000        | 786.9240                 | 787.000        | 0℃/3.85V <sub>DC</sub>   |
| 13                           | 782        | 777.1206                  | 777.000        | 786.8584                 | 787.000        | 10℃/3.85V <sub>DC</sub>  |
| 13                           | 782        | 777.1503                  | 777.000        | 786.9587                 | 787.000        | 20℃/3.85V <sub>DC</sub>  |
| 13                           | 782        | 777.0676                  | 777.000        | 786.8467                 | 787.000        | 30℃/3.85V <sub>DC</sub>  |
| 13                           | 782        | 777.0049                  | 777.000        | 786.8252                 | 787.000        | 40℃/3.85V <sub>DC</sub>  |
| 13                           | 782        | 777.0956                  | 777.000        | 786.8865                 | 787.000        | 50℃/3.85V <sub>DC</sub>  |
| <b>10MHz Bandwidth 16QAM</b> |            |                           |                |                          |                |                          |
| 13                           | 782        | 777.1238                  | 777.000        | 786.9627                 | 787.000        | 20℃/3.45V <sub>DC</sub>  |
| 13                           | 782        | 777.1528                  | 777.000        | 786.9678                 | 787.000        | 20℃/4.4V <sub>DC</sub>   |
| 13                           | 782        | 777.0977                  | 777.000        | 786.9216                 | 787.000        | -30℃/3.85V <sub>DC</sub> |
| 13                           | 782        | 777.1919                  | 777.000        | 786.8227                 | 787.000        | -20℃/3.85V <sub>DC</sub> |
| 13                           | 782        | 777.1814                  | 777.000        | 786.8249                 | 787.000        | -10℃/3.85V <sub>DC</sub> |
| 13                           | 782        | 777.0590                  | 777.000        | 786.9696                 | 787.000        | 0℃/3.85V <sub>DC</sub>   |
| 13                           | 782        | 777.1131                  | 777.000        | 786.8244                 | 787.000        | 10℃/3.85V <sub>DC</sub>  |
| 13                           | 782        | 777.0921                  | 777.000        | 786.9896                 | 787.000        | 20℃/3.85V <sub>DC</sub>  |
| 13                           | 782        | 777.1383                  | 777.000        | 786.8651                 | 787.000        | 30℃/3.85V <sub>DC</sub>  |
| 13                           | 782        | 777.0396                  | 777.000        | 786.7864                 | 787.000        | 40℃/3.85V <sub>DC</sub>  |
| 13                           | 782        | 777.0992                  | 777.000        | 786.8727                 | 787.000        | 50℃/3.85V <sub>DC</sub>  |

| Band                         | Freq (MHz) | Lower Edge (MHz) (Result) | Limit (1850MHz) | Upper Edge(MHz) (Result) | Limit (1915MHz) | Environment              |
|------------------------------|------------|---------------------------|-----------------|--------------------------|-----------------|--------------------------|
| <b>20MHz Bandwidth QPSK</b>  |            |                           |                 |                          |                 |                          |
| 25                           | 1860/1905  | 1850.1465                 | 1850.000        | 1914.9658                | 1915.000        | 20℃/3.45V <sub>DC</sub>  |
| 25                           | 2510/2560  | 1850.1413                 | 1850.000        | 1914.9738                | 1915.000        | 20℃/4.4V <sub>DC</sub>   |
| 25                           | 2510/2560  | 1850.1130                 | 1850.000        | 1914.8478                | 1915.000        | -30℃/3.85V <sub>DC</sub> |
| 25                           | 2510/2560  | 1850.1959                 | 1850.000        | 1914.9913                | 1915.000        | -20℃/3.85V <sub>DC</sub> |
| 25                           | 2510/2560  | 1850.1310                 | 1850.000        | 1914.9397                | 1915.000        | -10℃/3.85V <sub>DC</sub> |
| 25                           | 2510/2560  | 1850.1595                 | 1850.000        | 1914.9451                | 1915.000        | 0℃/3.85V <sub>DC</sub>   |
| 25                           | 2510/2560  | 1850.1281                 | 1850.000        | 1914.8626                | 1915.000        | 10℃/3.85V <sub>DC</sub>  |
| 25                           | 2510/2560  | 1850.1442                 | 1850.000        | 1914.8439                | 1915.000        | 20℃/3.85V <sub>DC</sub>  |
| 25                           | 2510/2560  | 1850.1563                 | 1850.000        | 1914.8138                | 1915.000        | 30℃/3.85V <sub>DC</sub>  |
| 25                           | 2510/2560  | 1850.1195                 | 1850.000        | 1914.9174                | 1915.000        | 40℃/3.85V <sub>DC</sub>  |
| 25                           | 2510/2560  | 1850.1445                 | 1850.000        | 1914.9307                | 1915.000        | 50℃/3.85V <sub>DC</sub>  |
| <b>20MHz Bandwidth 16QAM</b> |            |                           |                 |                          |                 |                          |
| 25                           | 2510/2560  | 1850.1466                 | 1850.000        | 1914.9695                | 1915.000        | 20℃/3.45V <sub>DC</sub>  |
| 25                           | 2510/2560  | 1850.1424                 | 1850.000        | 1914.9578                | 1915.000        | 20℃/4.4V <sub>DC</sub>   |
| 25                           | 2510/2560  | 1850.0886                 | 1850.000        | 1914.8612                | 1915.000        | -30℃/3.85V <sub>DC</sub> |
| 25                           | 2510/2560  | 1850.2139                 | 1850.000        | 1914.9587                | 1915.000        | -20℃/3.85V <sub>DC</sub> |
| 25                           | 2510/2560  | 1850.1419                 | 1850.000        | 1914.9104                | 1915.000        | -10℃/3.85V <sub>DC</sub> |
| 25                           | 2510/2560  | 1850.1752                 | 1850.000        | 1914.9195                | 1915.000        | 0℃/3.85V <sub>DC</sub>   |
| 25                           | 2510/2560  | 1850.1525                 | 1850.000        | 1914.8363                | 1915.000        | 10℃/3.85V <sub>DC</sub>  |
| 25                           | 2510/2560  | 1850.1477                 | 1850.000        | 1914.8660                | 1915.000        | 20℃/3.85V <sub>DC</sub>  |
| 25                           | 2510/2560  | 1850.1220                 | 1850.000        | 1914.8173                | 1915.000        | 30℃/3.85V <sub>DC</sub>  |
| 25                           | 2510/2560  | 1850.1013                 | 1850.000        | 1914.9935                | 1915.000        | 40℃/3.85V <sub>DC</sub>  |
| 25                           | 2510/2560  | 1850.1202                 | 1850.000        | 1914.8645                | 1915.000        | 50℃/3.85V <sub>DC</sub>  |

## Band 26\_1

| Test Modulation:                    | QPSK             |                            | Test Channel:   | 821.5MHz |       |
|-------------------------------------|------------------|----------------------------|-----------------|----------|-------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> ) | Frequency Error |          | Limit |
|                                     |                  |                            | (Hz)            | (ppm)    | (ppm) |
| Frequency Stability vs. Temperature | -30              | 3.85                       | -23.93          | -0.02913 | 2.5   |
|                                     | -20              | 3.85                       | -21.52          | -0.02588 | 2.5   |
|                                     | -10              | 3.85                       | -24.43          | -0.02938 | 2.5   |
|                                     | 0                | 3.85                       | -22.21          | -0.02671 | 2.5   |
|                                     | 10               | 3.85                       | -21.94          | -0.02639 | 2.5   |
|                                     | 20               | 3.85                       | -21.09          | -0.02536 | 2.5   |
|                                     | 30               | 3.85                       | -22.46          | -0.02701 | 2.5   |
|                                     | 40               | 3.85                       | -15.89          | -0.01911 | 2.5   |
|                                     | 50               | 3.85                       | -20.90          | -0.02514 | 2.5   |
| Frequency Stability vs. Voltage     | 20               | 3.45                       | -16.45          | -0.01978 | 2.5   |
|                                     | 20               | 4.40                       | -21.14          | -0.02542 | 2.5   |

| Test Modulation:                    | 16QAM            |                            | Test Channel:   | 821.5MHz |       |
|-------------------------------------|------------------|----------------------------|-----------------|----------|-------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> ) | Frequency Error |          | Limit |
|                                     |                  |                            | (Hz)            | (ppm)    | (ppm) |
| Frequency Stability vs. Temperature | -30              | 3.85                       | -23.77          | -0.02893 | 2.5   |
|                                     | -20              | 3.85                       | -21.81          | -0.02623 | 2.5   |
|                                     | -10              | 3.85                       | -24.38          | -0.02932 | 2.5   |
|                                     | 0                | 3.85                       | -21.65          | -0.02604 | 2.5   |
|                                     | 10               | 3.85                       | -21.59          | -0.02597 | 2.5   |
|                                     | 20               | 3.85                       | -21.43          | -0.02577 | 2.5   |
|                                     | 30               | 3.85                       | -22.79          | -0.02741 | 2.5   |
|                                     | 40               | 3.85                       | -16.57          | -0.01993 | 2.5   |
|                                     | 50               | 3.85                       | -21.01          | -0.02527 | 2.5   |
| Frequency Stability vs. Voltage     | 20               | 3.45                       | -16.78          | -0.02018 | 2.5   |
|                                     | 20               | 4.40                       | -20.83          | -0.02505 | 2.5   |

## Band 26\_2

| Test Modulation:                    | QPSK             |                            | Test Channel:   | 831.5MHz |       |
|-------------------------------------|------------------|----------------------------|-----------------|----------|-------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> ) | Frequency Error |          | Limit |
|                                     |                  |                            | (Hz)            | (ppm)    | (ppm) |
| Frequency Stability vs. Temperature | -30              | 3.85                       | -18.63          | -0.02241 | 2.5   |
|                                     | -20              | 3.85                       | -12.83          | -0.01543 | 2.5   |
|                                     | -10              | 3.85                       | -12.83          | -0.01543 | 2.5   |
|                                     | 0                | 3.85                       | -21.76          | -0.02617 | 2.5   |
|                                     | 10               | 3.85                       | -14.22          | -0.01710 | 2.5   |
|                                     | 20               | 3.85                       | -16.92          | -0.02035 | 2.5   |
|                                     | 30               | 3.85                       | -18.99          | -0.02284 | 2.5   |
|                                     | 40               | 3.85                       | -19.76          | -0.02376 | 2.5   |
|                                     | 50               | 3.85                       | -21.65          | -0.02604 | 2.5   |
| Frequency Stability vs. Voltage     | 20               | 3.45                       | -19.53          | -0.02349 | 2.5   |
|                                     | 20               | 4.40                       | -23.92          | -0.02877 | 2.5   |

| Test Modulation:                    | 16QAM            |                            | Test Channel:   | 831.5MHz |       |
|-------------------------------------|------------------|----------------------------|-----------------|----------|-------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> ) | Frequency Error |          | Limit |
|                                     |                  |                            | (Hz)            | (ppm)    | (ppm) |
| Frequency Stability vs. Temperature | -30              | 3.85                       | -18.56          | -0.02232 | 2.5   |
|                                     | -20              | 3.85                       | -13.15          | -0.01581 | 2.5   |
|                                     | -10              | 3.85                       | -13.17          | -0.01584 | 2.5   |
|                                     | 0                | 3.85                       | -21.29          | -0.02560 | 2.5   |
|                                     | 10               | 3.85                       | -14.26          | -0.01715 | 2.5   |
|                                     | 20               | 3.85                       | -17.43          | -0.02096 | 2.5   |
|                                     | 30               | 3.85                       | -18.54          | -0.02230 | 2.5   |
|                                     | 40               | 3.85                       | -19.80          | -0.02381 | 2.5   |
|                                     | 50               | 3.85                       | -21.23          | -0.02553 | 2.5   |
| Frequency Stability vs. Voltage     | 20               | 3.45                       | -19.50          | -0.02345 | 2.5   |
|                                     | 20               | 4.40                       | -23.40          | -0.02814 | 2.5   |

## Band 26\_3

| Test Modulation:                    | QPSK             |                            | Test Channel:   | 824MHz   |       |
|-------------------------------------|------------------|----------------------------|-----------------|----------|-------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> ) | Frequency Error |          | Limit |
|                                     |                  |                            | (Hz)            | (ppm)    | (ppm) |
| Frequency Stability vs. Temperature | -30              | 3.85                       | -19.11          | -0.02319 | 2.5   |
|                                     | -20              | 3.85                       | -12.78          | -0.01551 | 2.5   |
|                                     | -10              | 3.85                       | -12.94          | -0.01570 | 2.5   |
|                                     | 0                | 3.85                       | -22.05          | -0.02676 | 2.5   |
|                                     | 10               | 3.85                       | -14.56          | -0.01767 | 2.5   |
|                                     | 20               | 3.85                       | -17.25          | -0.02093 | 2.5   |
|                                     | 30               | 3.85                       | -18.75          | -0.02275 | 2.5   |
|                                     | 40               | 3.85                       | -19.68          | -0.02388 | 2.5   |
|                                     | 50               | 3.85                       | -21.43          | -0.02601 | 2.5   |
| Frequency Stability vs. Voltage     | 20               | 3.45                       | -19.19          | -0.02329 | 2.5   |
|                                     | 20               | 4.40                       | -23.86          | -0.02896 | 2.5   |

| Test Modulation:                    | 16QAM            |                            | Test Channel:   | 824MHz   |       |
|-------------------------------------|------------------|----------------------------|-----------------|----------|-------|
| Test Item                           | Temperature (°C) | Voltage (V <sub>DC</sub> ) | Frequency Error |          | Limit |
|                                     |                  |                            | (Hz)            | (ppm)    | (ppm) |
| Frequency Stability vs. Temperature | -30              | 3.85                       | -16.34          | -0.01983 | 2.5   |
|                                     | -20              | 3.85                       | -13.96          | -0.01694 | 2.5   |
|                                     | -10              | 3.85                       | -12.45          | -0.01511 | 2.5   |
|                                     | 0                | 3.85                       | -21.73          | -0.02637 | 2.5   |
|                                     | 10               | 3.85                       | -17.73          | -0.02152 | 2.5   |
|                                     | 20               | 3.85                       | -20.07          | -0.02436 | 2.5   |
|                                     | 30               | 3.85                       | -17.18          | -0.02085 | 2.5   |
|                                     | 40               | 3.85                       | -20.11          | -0.02441 | 2.5   |
|                                     | 50               | 3.85                       | -20.91          | -0.02538 | 2.5   |
| Frequency Stability vs. Voltage     | 20               | 3.45                       | -21.84          | -0.02650 | 2.5   |
|                                     | 20               | 4.40                       | -22.87          | -0.02775 | 2.5   |

| Band                         | Freq (MHz) | Lower Edge (MHz) (Result) | Limit (2570MHz) | Upper Edge(MHz) (Result) | Limit (2620MHz) | Environment              |
|------------------------------|------------|---------------------------|-----------------|--------------------------|-----------------|--------------------------|
| <b>20MHz Bandwidth QPSK</b>  |            |                           |                 |                          |                 |                          |
| 38                           | 2580/2610  | 2570.0962                 | 2570.000        | 2619.8366                | 2620.000        | 20℃/3.45V <sub>DC</sub>  |
| 38                           | 2580/2610  | 2570.1258                 | 2570.000        | 2619.9168                | 2620.000        | 20℃/4.4V <sub>DC</sub>   |
| 38                           | 2580/2610  | 2570.0397                 | 2570.000        | 2619.8732                | 2620.000        | -30℃/3.85V <sub>DC</sub> |
| 38                           | 2580/2610  | 2570.1074                 | 2570.000        | 2619.9997                | 2620.000        | -20℃/3.85V <sub>DC</sub> |
| 38                           | 2580/2610  | 2570.1081                 | 2570.000        | 2619.9721                | 2620.000        | -10℃/3.85V <sub>DC</sub> |
| 38                           | 2580/2610  | 2570.2134                 | 2570.000        | 2619.9190                | 2620.000        | 0℃/3.85V <sub>DC</sub>   |
| 38                           | 2580/2610  | 2570.0305                 | 2570.000        | 2619.8985                | 2620.000        | 10℃/3.85V <sub>DC</sub>  |
| 38                           | 2580/2610  | 2570.1781                 | 2570.000        | 2619.9645                | 2620.000        | 20℃/3.85V <sub>DC</sub>  |
| 38                           | 2580/2610  | 2570.0447                 | 2570.000        | 2619.8287                | 2620.000        | 30℃/3.85V <sub>DC</sub>  |
| 38                           | 2580/2610  | 2570.1662                 | 2570.000        | 2619.9260                | 2620.000        | 40℃/3.85V <sub>DC</sub>  |
| 38                           | 2580/2610  | 2570.0465                 | 2570.000        | 2619.9003                | 2620.000        | 50℃/3.85V <sub>DC</sub>  |
| <b>20MHz Bandwidth 16QAM</b> |            |                           |                 |                          |                 |                          |
| 38                           | 2580/2610  | 2570.1070                 | 2570.000        | 2619.8649                | 2620.000        | 20℃/3.45V <sub>DC</sub>  |
| 38                           | 2580/2610  | 2570.0963                 | 2570.000        | 2619.8960                | 2620.000        | 20℃/4.4V <sub>DC</sub>   |
| 38                           | 2580/2610  | 2570.0121                 | 2570.000        | 2619.8912                | 2620.000        | -30℃/3.85V <sub>DC</sub> |
| 38                           | 2580/2610  | 2570.0884                 | 2570.000        | 2619.8942                | 2620.000        | -20℃/3.85V <sub>DC</sub> |
| 38                           | 2580/2610  | 2570.0073                 | 2570.000        | 2619.9877                | 2620.000        | -10℃/3.85V <sub>DC</sub> |
| 38                           | 2580/2610  | 2570.1892                 | 2570.000        | 2619.8961                | 2620.000        | 0℃/3.85V <sub>DC</sub>   |
| 38                           | 2580/2610  | 2570.0121                 | 2570.000        | 2619.8853                | 2620.000        | 10℃/3.85V <sub>DC</sub>  |
| 38                           | 2580/2610  | 2570.1254                 | 2570.000        | 2619.9302                | 2620.000        | 20℃/3.85V <sub>DC</sub>  |
| 38                           | 2580/2610  | 2570.0515                 | 2570.000        | 2619.8359                | 2620.000        | 30℃/3.85V <sub>DC</sub>  |
| 38                           | 2580/2610  | 2570.1422                 | 2570.000        | 2619.9268                | 2620.000        | 40℃/3.85V <sub>DC</sub>  |
| 38                           | 2580/2610  | 2570.0401                 | 2570.000        | 2619.9126                | 2620.000        | 50℃/3.85V <sub>DC</sub>  |

| Band                         | Freq (MHz) | Lower Edge (MHz) (Result) | Limit (2496MHz) | Upper Edge(MHz) (Result) | Limit (2690MHz) | Environment              |
|------------------------------|------------|---------------------------|-----------------|--------------------------|-----------------|--------------------------|
| <b>20MHz Bandwidth QPSK</b>  |            |                           |                 |                          |                 |                          |
| 41                           | 2506/2680  | 2496.1160                 | 2496.000        | 2689.7980                | 2690.000        | 20℃/3.4V <sub>DC</sub>   |
| 41                           | 2506/2680  | 2496.1013                 | 2496.000        | 2689.9844                | 2690.000        | 20℃/4.4V <sub>DC</sub>   |
| 41                           | 2506/2680  | 2496.0225                 | 2496.000        | 2689.8435                | 2690.000        | -30℃/3.85V <sub>DC</sub> |
| 41                           | 2506/2680  | 2496.2180                 | 2496.000        | 2689.8554                | 2690.000        | -20℃/3.85V <sub>DC</sub> |
| 41                           | 2506/2680  | 2496.1139                 | 2496.000        | 2689.8587                | 2690.000        | -10℃/3.85V <sub>DC</sub> |
| 41                           | 2506/2680  | 2496.1488                 | 2496.000        | 2689.7998                | 2690.000        | 0℃/3.85V <sub>DC</sub>   |
| 41                           | 2506/2680  | 2496.1699                 | 2496.000        | 2689.9860                | 2690.000        | 10℃/3.85V <sub>DC</sub>  |
| 41                           | 2506/2680  | 2496.1169                 | 2496.000        | 2689.8575                | 2690.000        | 20℃/3.85V <sub>DC</sub>  |
| 41                           | 2506/2680  | 2496.0863                 | 2496.000        | 2689.8483                | 2690.000        | 30℃/3.85V <sub>DC</sub>  |
| 41                           | 2506/2680  | 2496.0155                 | 2496.000        | 2689.8059                | 2690.000        | 40℃/3.85V <sub>DC</sub>  |
| 41                           | 2506/2680  | 2496.0489                 | 2496.000        | 2689.9447                | 2690.000        | 50℃/3.85V <sub>DC</sub>  |
| <b>20MHz Bandwidth 16QAM</b> |            |                           |                 |                          |                 |                          |
| 41                           | 2506/2680  | 2496.1178                 | 2496.000        | 2689.7825                | 2690.000        | 20℃/3.4V <sub>DC</sub>   |
| 41                           | 2506/2680  | 2496.0556                 | 2496.000        | 2689.9601                | 2690.000        | 20℃/4.4V <sub>DC</sub>   |
| 41                           | 2506/2680  | 2496.0598                 | 2496.000        | 2689.8777                | 2690.000        | -30℃/3.85V <sub>DC</sub> |
| 41                           | 2506/2680  | 2496.1328                 | 2496.000        | 2689.8315                | 2690.000        | -20℃/3.85V <sub>DC</sub> |
| 41                           | 2506/2680  | 2496.1236                 | 2496.000        | 2689.8773                | 2690.000        | -10℃/3.85V <sub>DC</sub> |
| 41                           | 2506/2680  | 2496.1394                 | 2496.000        | 2689.8165                | 2690.000        | 0℃/3.85V <sub>DC</sub>   |
| 41                           | 2506/2680  | 2496.1671                 | 2496.000        | 2689.9771                | 2690.000        | 10℃/3.85V <sub>DC</sub>  |
| 41                           | 2506/2680  | 2496.1281                 | 2496.000        | 2689.8518                | 2690.000        | 20℃/3.85V <sub>DC</sub>  |
| 41                           | 2506/2680  | 2496.0665                 | 2496.000        | 2689.8384                | 2690.000        | 30℃/3.85V <sub>DC</sub>  |
| 41                           | 2506/2680  | 2495.9672                 | 2496.000        | 2689.8291                | 2690.000        | 40℃/3.85V <sub>DC</sub>  |
| 41                           | 2506/2680  | 2496.0745                 | 2496.000        | 2689.9454                | 2690.000        | 50℃/3.85V <sub>DC</sub>  |

| Band                  | Freq (MHz) | Lower Edge (MHz) (Result) | Limit (1710MHz) | Upper Edge(MHz) (Result) | Limit (1780MHz) | Environment              |
|-----------------------|------------|---------------------------|-----------------|--------------------------|-----------------|--------------------------|
| 20MHz Bandwidth QPSK  |            |                           |                 |                          |                 |                          |
| 66                    | 1720/1770  | 1710.1229                 | 1710.000        | 1779.7659                | 1780.000        | 20℃/3.45V <sub>DC</sub>  |
| 66                    | 1720/1770  | 1710.0344                 | 1710.000        | 1779.9192                | 1780.000        | 20℃/4.4V <sub>DC</sub>   |
| 66                    | 1720/1770  | 1710.0879                 | 1710.000        | 1779.8114                | 1780.000        | -30℃/3.85V <sub>DC</sub> |
| 66                    | 1720/1770  | 1710.1847                 | 1710.000        | 1779.8799                | 1780.000        | -20℃/3.85V <sub>DC</sub> |
| 66                    | 1720/1770  | 1710.1035                 | 1710.000        | 1779.8572                | 1780.000        | -10℃/3.85V <sub>DC</sub> |
| 66                    | 1720/1770  | 1710.1794                 | 1710.000        | 1779.8109                | 1780.000        | 0℃/3.85V <sub>DC</sub>   |
| 66                    | 1720/1770  | 1710.1472                 | 1710.000        | 1779.9914                | 1780.000        | 10℃/3.85V <sub>DC</sub>  |
| 66                    | 1720/1770  | 1710.1000                 | 1710.000        | 1779.8474                | 1780.000        | 20℃/3.85V <sub>DC</sub>  |
| 66                    | 1720/1770  | 1710.0240                 | 1710.000        | 1779.8345                | 1780.000        | 30℃/3.85V <sub>DC</sub>  |
| 66                    | 1720/1770  | 1710.0409                 | 1710.000        | 1779.8803                | 1780.000        | 40℃/3.85V <sub>DC</sub>  |
| 66                    | 1720/1770  | 1710.0384                 | 1710.000        | 1779.9975                | 1780.000        | 50℃/3.85V <sub>DC</sub>  |
| 20MHz Bandwidth 16QAM |            |                           |                 |                          |                 |                          |
| 66                    | 1720/1770  | 1710.1143                 | 1710.000        | 1779.7926                | 1780.000        | 20℃/3.45V <sub>DC</sub>  |
| 66                    | 1720/1770  | 1710.0483                 | 1710.000        | 1779.9195                | 1780.000        | 20℃/4.4V <sub>DC</sub>   |
| 66                    | 1720/1770  | 1710.0966                 | 1710.000        | 1779.8089                | 1780.000        | -30℃/3.85V <sub>DC</sub> |
| 66                    | 1720/1770  | 1710.2412                 | 1710.000        | 1779.8791                | 1780.000        | -20℃/3.85V <sub>DC</sub> |
| 66                    | 1720/1770  | 1710.1053                 | 1710.000        | 1779.8463                | 1780.000        | -10℃/3.85V <sub>DC</sub> |
| 66                    | 1720/1770  | 1710.1332                 | 1710.000        | 1779.7740                | 1780.000        | 0℃/3.85V <sub>DC</sub>   |
| 66                    | 1720/1770  | 1710.1389                 | 1710.000        | 1779.9662                | 1780.000        | 10℃/3.85V <sub>DC</sub>  |
| 66                    | 1720/1770  | 1710.0873                 | 1710.000        | 1779.8415                | 1780.000        | 20℃/3.85V <sub>DC</sub>  |
| 66                    | 1720/1770  | 1710.0383                 | 1710.000        | 1779.8394                | 1780.000        | 30℃/3.85V <sub>DC</sub>  |
| 66                    | 1720/1770  | 1710.0213                 | 1710.000        | 1779.8997                | 1780.000        | 40℃/3.85V <sub>DC</sub>  |
| 66                    | 1720/1770  | 1710.0556                 | 1710.000        | 1779.9807                | 1780.000        | 50℃/3.85V <sub>DC</sub>  |

| Band                         | Freq (MHz) | Lower Edge (MHz) (Result) | Limit (663MHz) | Upper Edge(MHz) (Result) | Limit (698MHz) | Environment              |
|------------------------------|------------|---------------------------|----------------|--------------------------|----------------|--------------------------|
| <b>20MHz Bandwidth QPSK</b>  |            |                           |                |                          |                |                          |
| 71                           | 673/688    | 663.1742                  | 663.000        | 697.9845                 | 698.000        | 20℃/3.4V <sub>DC</sub>   |
| 71                           | 673/688    | 663.1522                  | 663.000        | 697.9801                 | 698.000        | 20℃/4.4V <sub>DC</sub>   |
| 71                           | 673/688    | 663.1642                  | 663.000        | 697.9694                 | 698.000        | -30℃/3.85V <sub>DC</sub> |
| 71                           | 673/688    | 663.2166                  | 663.000        | 697.8090                 | 698.000        | -20℃/3.85V <sub>DC</sub> |
| 71                           | 673/688    | 663.1923                  | 663.000        | 697.8545                 | 698.000        | -10℃/3.85V <sub>DC</sub> |
| 71                           | 673/688    | 663.0833                  | 663.000        | 697.9805                 | 698.000        | 0℃/3.85V <sub>DC</sub>   |
| 71                           | 673/688    | 663.0729                  | 663.000        | 697.8572                 | 698.000        | 10℃/3.85V <sub>DC</sub>  |
| 71                           | 673/688    | 663.1125                  | 663.000        | 697.9399                 | 698.000        | 20℃/3.85V <sub>DC</sub>  |
| 71                           | 673/688    | 663.0758                  | 663.000        | 697.8608                 | 698.000        | 30℃/3.85V <sub>DC</sub>  |
| 71                           | 673/688    | 663.0214                  | 663.000        | 697.7735                 | 698.000        | 40℃/3.85V <sub>DC</sub>  |
| 71                           | 673/688    | 663.1684                  | 663.000        | 697.9154                 | 698.000        | 50℃/3.85V <sub>DC</sub>  |
| <b>20MHz Bandwidth 16QAM</b> |            |                           |                |                          |                |                          |
| 71                           | 673/688    | 663.1130                  | 663.000        | 697.9845                 | 698.000        | 20℃/3.4VDC               |
| 71                           | 673/688    | 663.1358                  | 663.000        | 697.9947                 | 698.000        | 20℃/4.4VDC               |
| 71                           | 673/688    | 663.1428                  | 663.000        | 697.9744                 | 698.000        | -30℃/3.85VDC             |
| 71                           | 673/688    | 663.1586                  | 663.000        | 697.7840                 | 698.000        | -20℃/3.85VDC             |
| 71                           | 673/688    | 663.1623                  | 663.000        | 697.8455                 | 698.000        | -10℃/3.85VDC             |
| 71                           | 673/688    | 663.0667                  | 663.000        | 697.9380                 | 698.000        | 0℃/3.85VDC               |
| 71                           | 673/688    | 663.0496                  | 663.000        | 697.8851                 | 698.000        | 10℃/3.85VDC              |
| 71                           | 673/688    | 663.1586                  | 663.000        | 697.9877                 | 698.000        | 20℃/3.85VDC              |
| 71                           | 673/688    | 663.1357                  | 663.000        | 697.8847                 | 698.000        | 30℃/3.85VDC              |
| 71                           | 673/688    | 663.0433                  | 663.000        | 697.8060                 | 698.000        | 40℃/3.85VDC              |
| 71                           | 673/688    | 663.1290                  | 663.000        | 697.8911                 | 698.000        | 50℃/3.85VDC              |

| Band                  | Freq (MHz) | Lower Edge (MHz) (Result) | Limit (704MHz) | Upper Edge(MHz) (Result) | Limit (716MHz) | Environment              |
|-----------------------|------------|---------------------------|----------------|--------------------------|----------------|--------------------------|
| 10MHz Bandwidth QPSK  |            |                           |                |                          |                |                          |
| 17                    | 709/711    | 704.1686                  | 704.000        | 715.9824                 | 716.000        | 20℃/3.4V <sub>DC</sub>   |
| 17                    | 709/711    | 704.1250                  | 704.000        | 715.9537                 | 716.000        | 20℃/4.4V <sub>DC</sub>   |
| 17                    | 709/711    | 704.1347                  | 704.000        | 715.9423                 | 716.000        | -30℃/3.85V <sub>DC</sub> |
| 17                    | 709/711    | 704.2128                  | 704.000        | 715.8370                 | 716.000        | -20℃/3.85V <sub>DC</sub> |
| 17                    | 709/711    | 704.2255                  | 704.000        | 715.8700                 | 716.000        | -10℃/3.85V <sub>DC</sub> |
| 17                    | 709/711    | 704.0819                  | 704.000        | 715.9380                 | 716.000        | 0℃/3.85V <sub>DC</sub>   |
| 17                    | 709/711    | 704.1051                  | 704.000        | 715.8554                 | 716.000        | 10℃/3.85V <sub>DC</sub>  |
| 17                    | 709/711    | 704.1555                  | 704.000        | 715.9451                 | 716.000        | 20℃/3.85V <sub>DC</sub>  |
| 17                    | 709/711    | 704.0211                  | 704.000        | 715.8352                 | 716.000        | 30℃/3.85V <sub>DC</sub>  |
| 17                    | 709/711    | 704.0379                  | 704.000        | 715.8404                 | 716.000        | 40℃/3.85V <sub>DC</sub>  |
| 17                    | 709/711    | 704.0925                  | 704.000        | 715.8750                 | 716.000        | 50℃/3.85V <sub>DC</sub>  |
| 10MHz Bandwidth 16QAM |            |                           |                |                          |                |                          |
| 17                    | 709/711    | 704.1686                  | 704.000        | 715.9691                 | 716.000        | 20℃/3.4VDC               |
| 17                    | 709/711    | 704.1250                  | 704.000        | 715.9860                 | 716.000        | 20℃/4.4VDC               |
| 17                    | 709/711    | 704.1347                  | 704.000        | 715.9517                 | 716.000        | -30℃/3.85VDC             |
| 17                    | 709/711    | 704.2128                  | 704.000        | 715.7783                 | 716.000        | -20℃/3.85VDC             |
| 17                    | 709/711    | 704.2255                  | 704.000        | 715.9215                 | 716.000        | -10℃/3.85VDC             |
| 17                    | 709/711    | 704.0819                  | 704.000        | 715.9092                 | 716.000        | 0℃/3.85VDC               |
| 17                    | 709/711    | 704.1051                  | 704.000        | 715.8809                 | 716.000        | 10℃/3.85VDC              |
| 17                    | 709/711    | 704.1555                  | 704.000        | 715.9620                 | 716.000        | 20℃/3.85VDC              |
| 17                    | 709/711    | 704.0211                  | 704.000        | 715.8161                 | 716.000        | 30℃/3.85VDC              |
| 17                    | 709/711    | 704.0379                  | 704.000        | 715.8236                 | 716.000        | 40℃/3.85VDC              |
| 17                    | 709/711    | 704.0925                  | 704.000        | 715.8527                 | 716.000        | 50℃/3.85VDC              |