

# FCC LTE Band Test Data

**FCC ID** : 2BKLE-ORION

**Company:** : Versa World Inc.

**EUT** : Body Worn Camera

**Model Number** : Orion

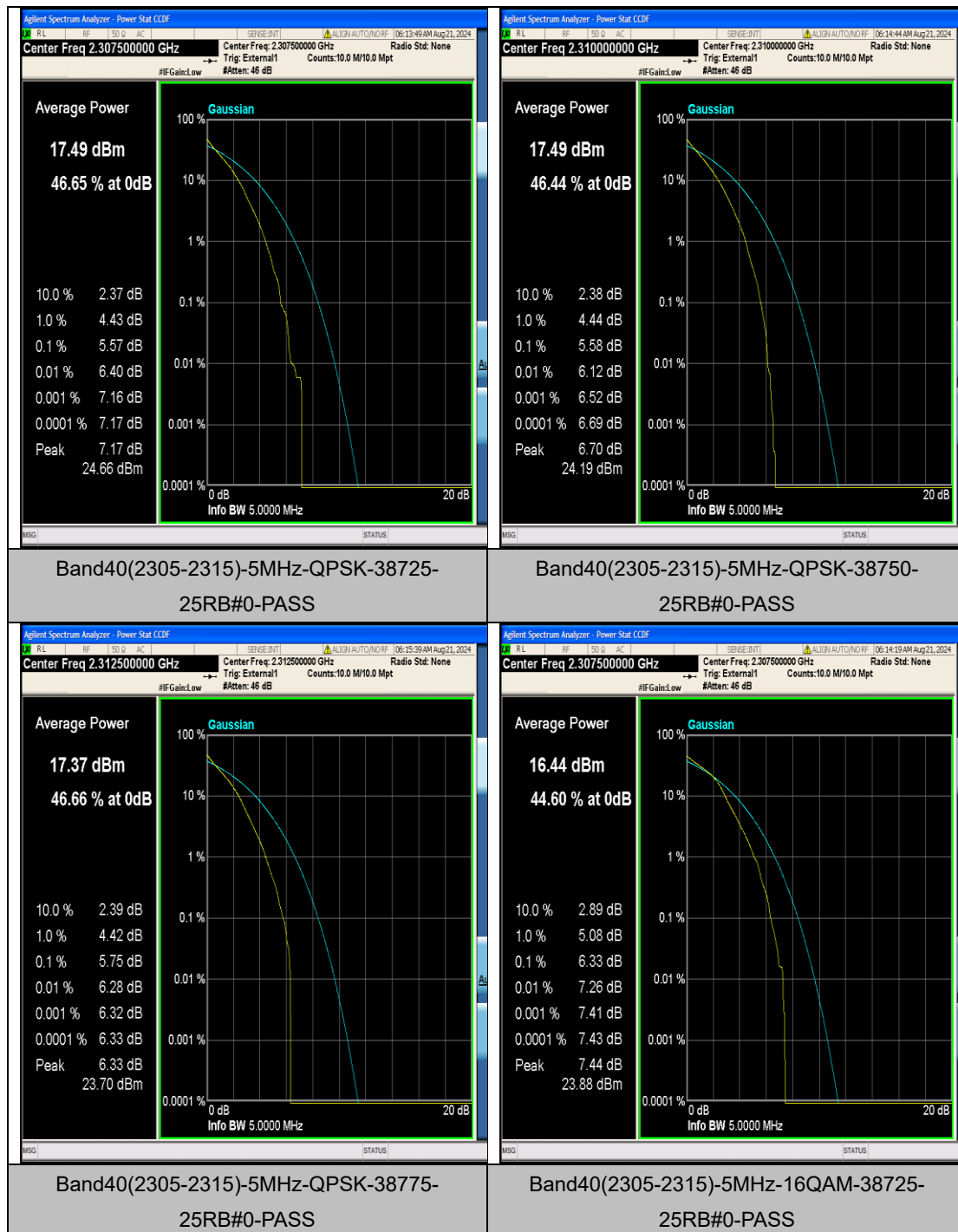
**Reviewed By** : Eric Wang

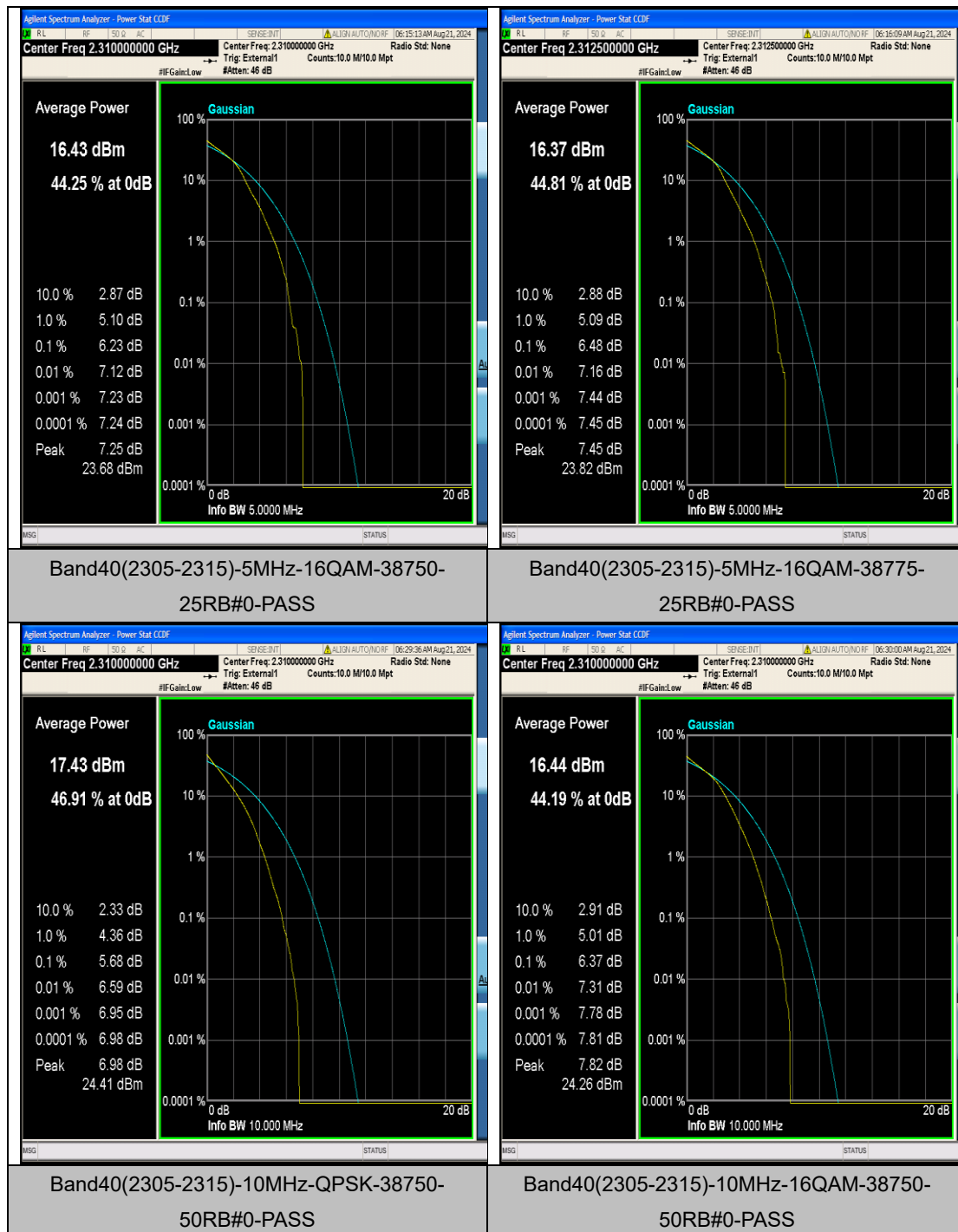
## Appendix B: Peak-to-Average Ratio(CCDF)

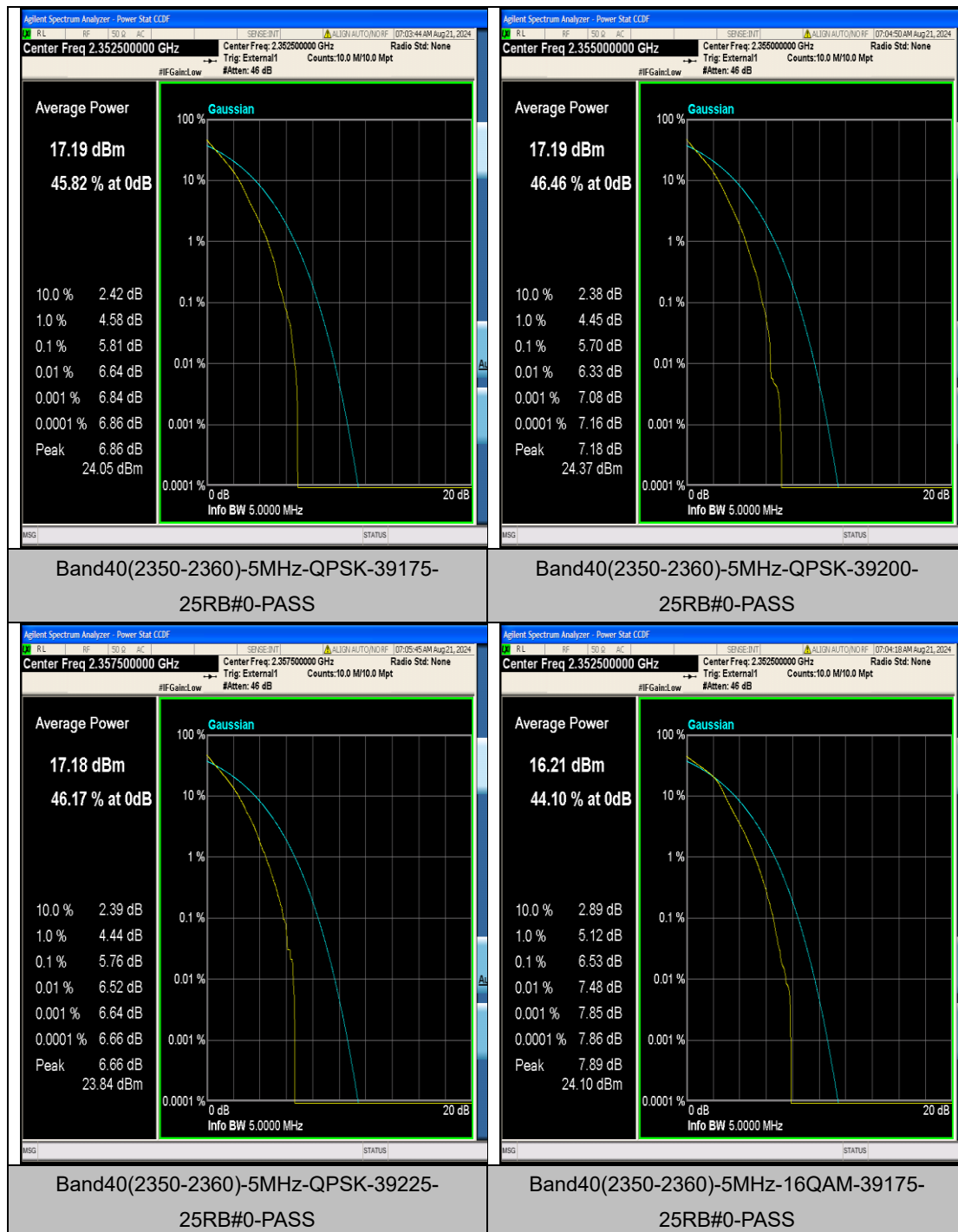
### Test Result

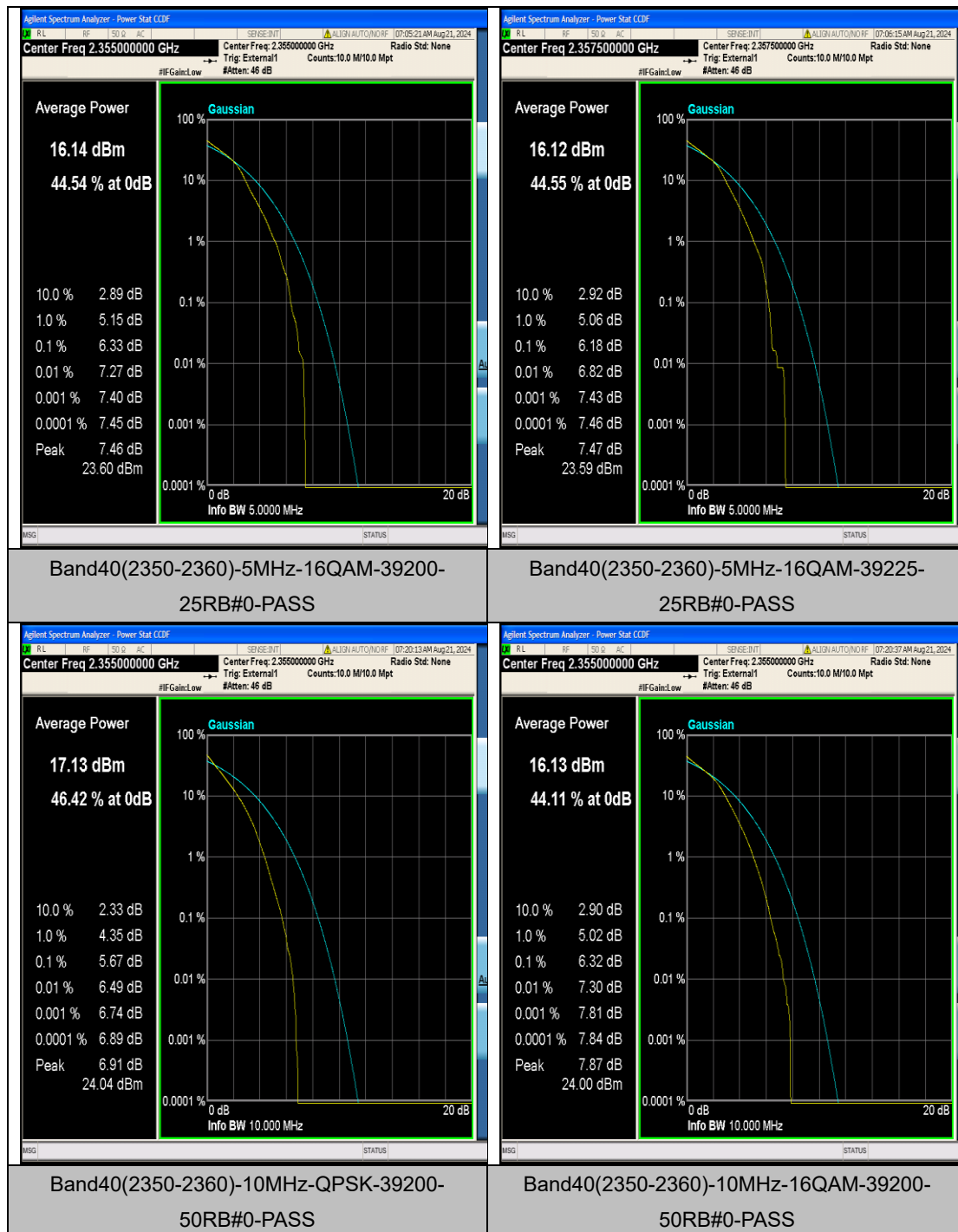
| Band              | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------------------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | 5.57       | 13        | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0           | 5.58       | 13        | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | 5.75       | 13        | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0           | 6.33       | 13        | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38750   | 25RB#0           | 6.23       | 13        | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38775   | 25RB#0           | 6.48       | 13        | PASS    |
| Band40(2305-2315) | 10MHz     | QPSK       | 38750   | 50RB#0           | 5.68       | 13        | PASS    |
| Band40(2305-2315) | 10MHz     | 16QAM      | 38750   | 50RB#0           | 6.37       | 13        | PASS    |
| Band40(2350-2360) | 5MHz      | QPSK       | 39175   | 25RB#0           | 5.81       | 13        | PASS    |
| Band40(2350-2360) | 5MHz      | QPSK       | 39200   | 25RB#0           | 5.70       | 13        | PASS    |
| Band40(2350-2360) | 5MHz      | QPSK       | 39225   | 25RB#0           | 5.76       | 13        | PASS    |
| Band40(2350-2360) | 5MHz      | 16QAM      | 39175   | 25RB#0           | 6.53       | 13        | PASS    |
| Band40(2350-2360) | 5MHz      | 16QAM      | 39200   | 25RB#0           | 6.33       | 13        | PASS    |
| Band40(2350-2360) | 5MHz      | 16QAM      | 39225   | 25RB#0           | 6.18       | 13        | PASS    |
| Band40(2350-2360) | 10MHz     | QPSK       | 39200   | 50RB#0           | 5.67       | 13        | PASS    |
| Band40(2350-2360) | 10MHz     | 16QAM      | 39200   | 50RB#0           | 6.32       | 13        | PASS    |

## Test Graphs







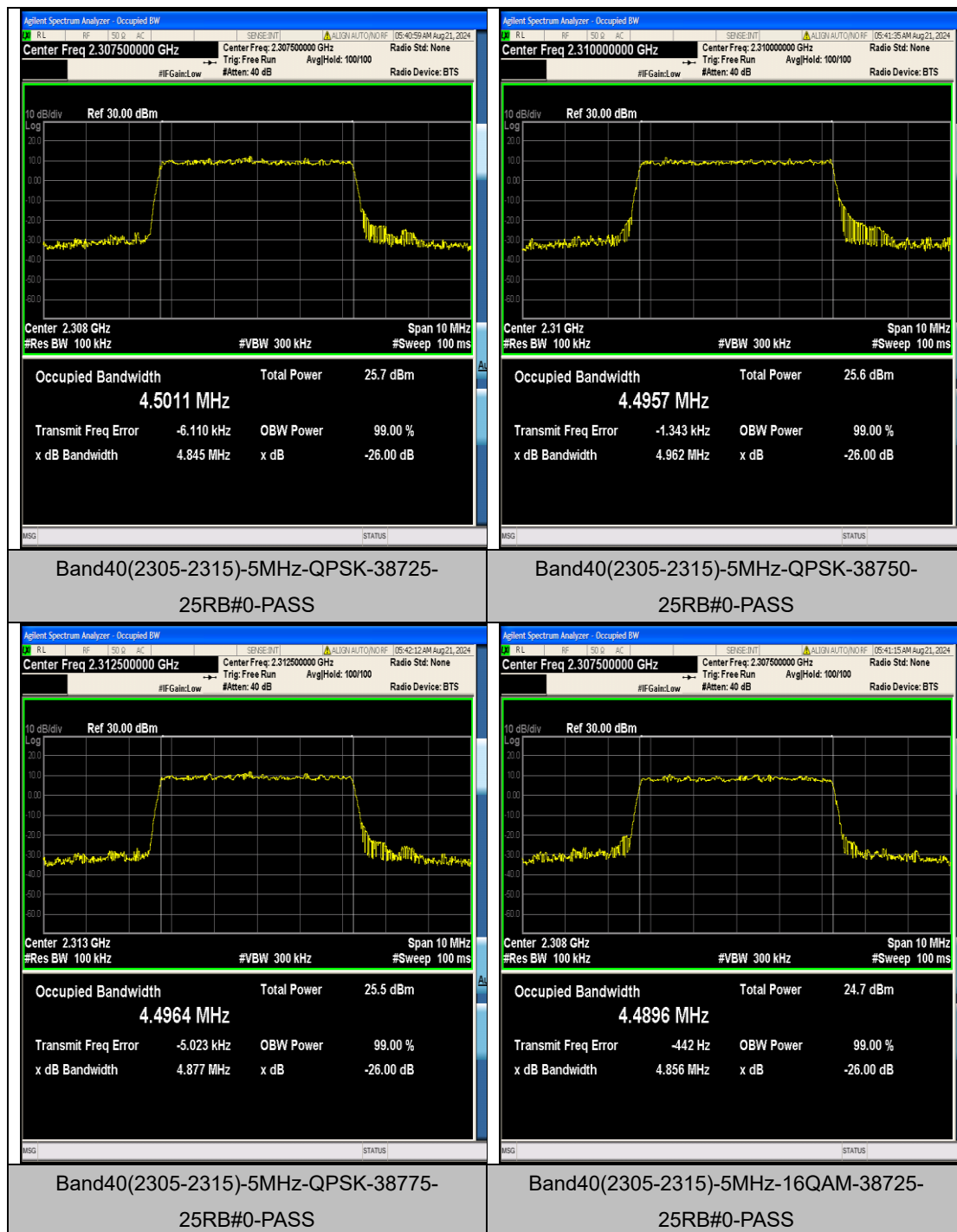


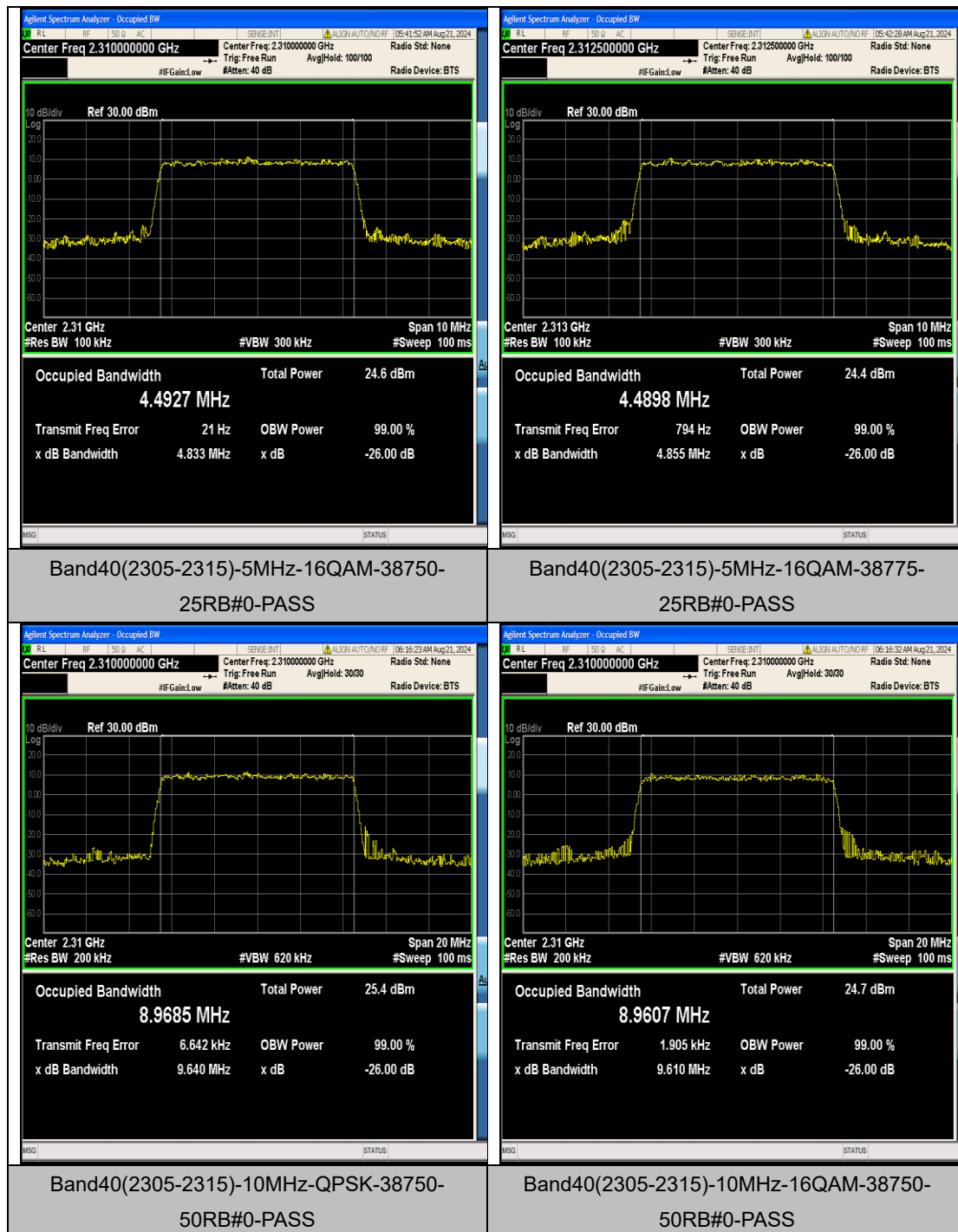
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

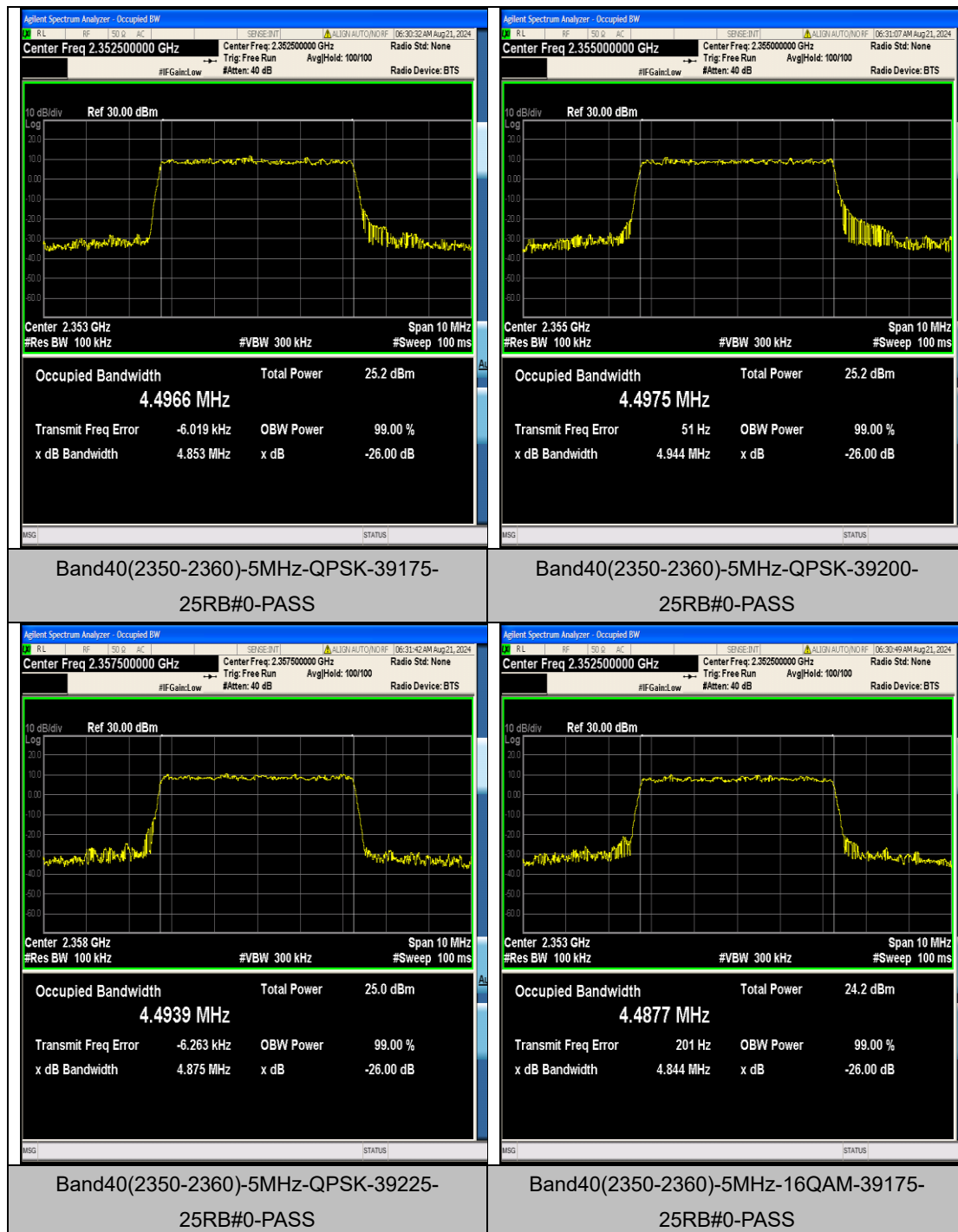
### Test Result

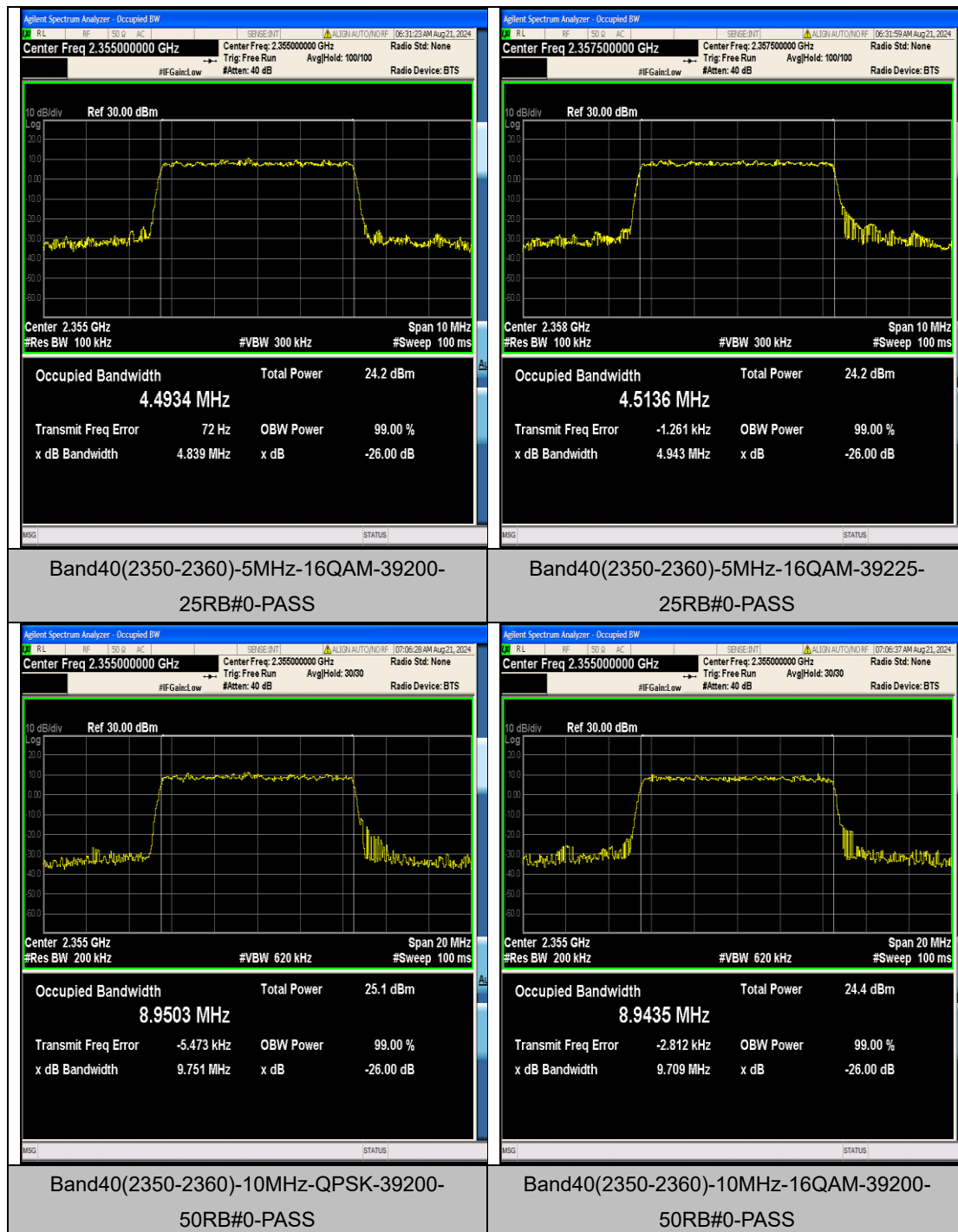
| Band              | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------------------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | 4.5011                   | 4.845                | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0           | 4.4957                   | 4.962                | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | 4.4964                   | 4.877                | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0           | 4.4896                   | 4.856                | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38750   | 25RB#0           | 4.4927                   | 4.833                | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38775   | 25RB#0           | 4.4898                   | 4.855                | PASS    |
| Band40(2305-2315) | 10MHz     | QPSK       | 38750   | 50RB#0           | 8.9685                   | 9.640                | PASS    |
| Band40(2305-2315) | 10MHz     | 16QAM      | 38750   | 50RB#0           | 8.9607                   | 9.610                | PASS    |
| Band40(2350-2360) | 5MHz      | QPSK       | 39175   | 25RB#0           | 4.4966                   | 4.853                | PASS    |
| Band40(2350-2360) | 5MHz      | QPSK       | 39200   | 25RB#0           | 4.4975                   | 4.944                | PASS    |
| Band40(2350-2360) | 5MHz      | QPSK       | 39225   | 25RB#0           | 4.4939                   | 4.875                | PASS    |
| Band40(2350-2360) | 5MHz      | 16QAM      | 39175   | 25RB#0           | 4.4877                   | 4.844                | PASS    |
| Band40(2350-2360) | 5MHz      | 16QAM      | 39200   | 25RB#0           | 4.4934                   | 4.839                | PASS    |
| Band40(2350-2360) | 5MHz      | 16QAM      | 39225   | 25RB#0           | 4.5136                   | 4.943                | PASS    |
| Band40(2350-2360) | 10MHz     | QPSK       | 39200   | 50RB#0           | 8.9503                   | 9.751                | PASS    |
| Band40(2350-2360) | 10MHz     | 16QAM      | 39200   | 50RB#0           | 8.9435                   | 9.709                | PASS    |

## Test Graphs







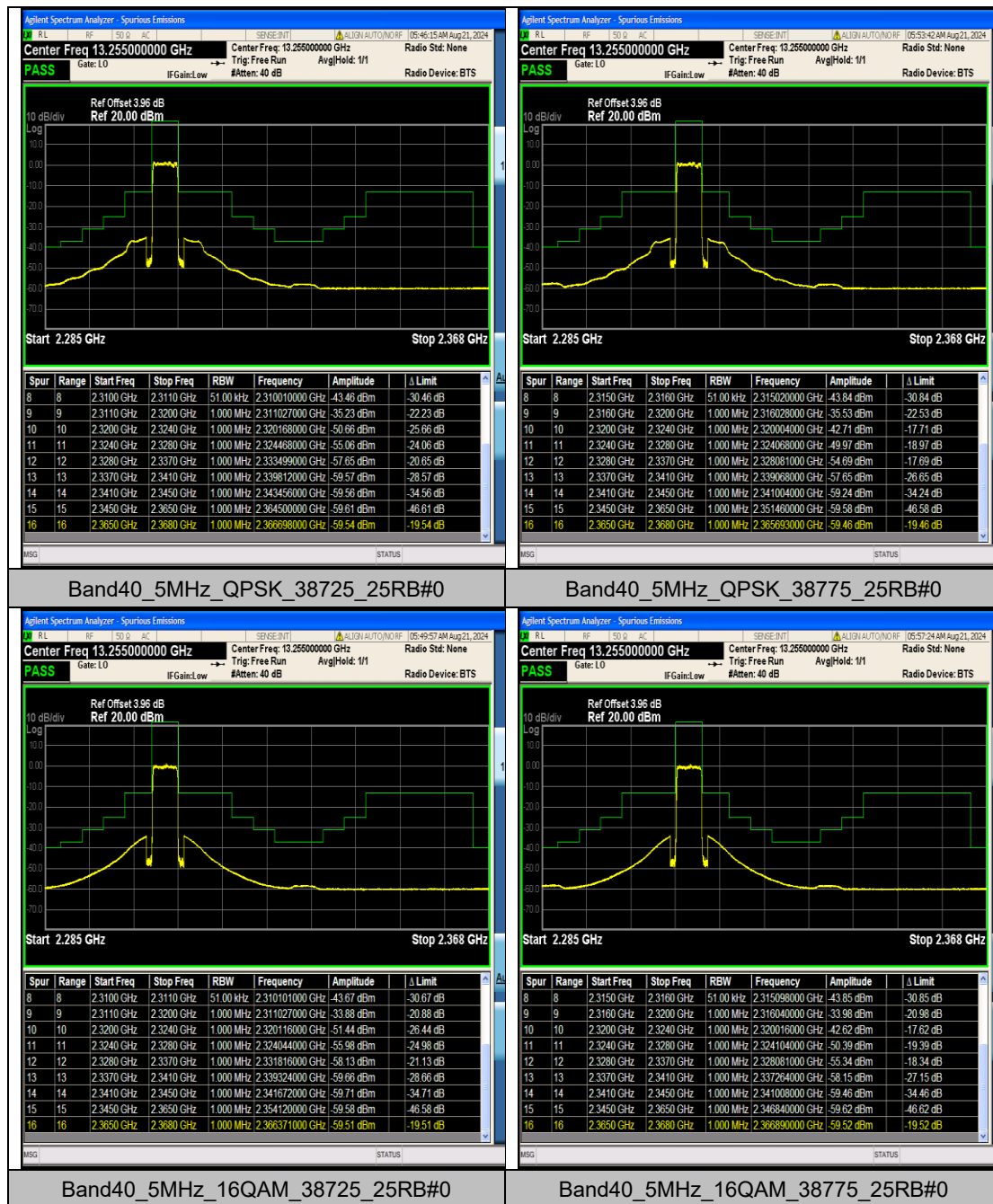


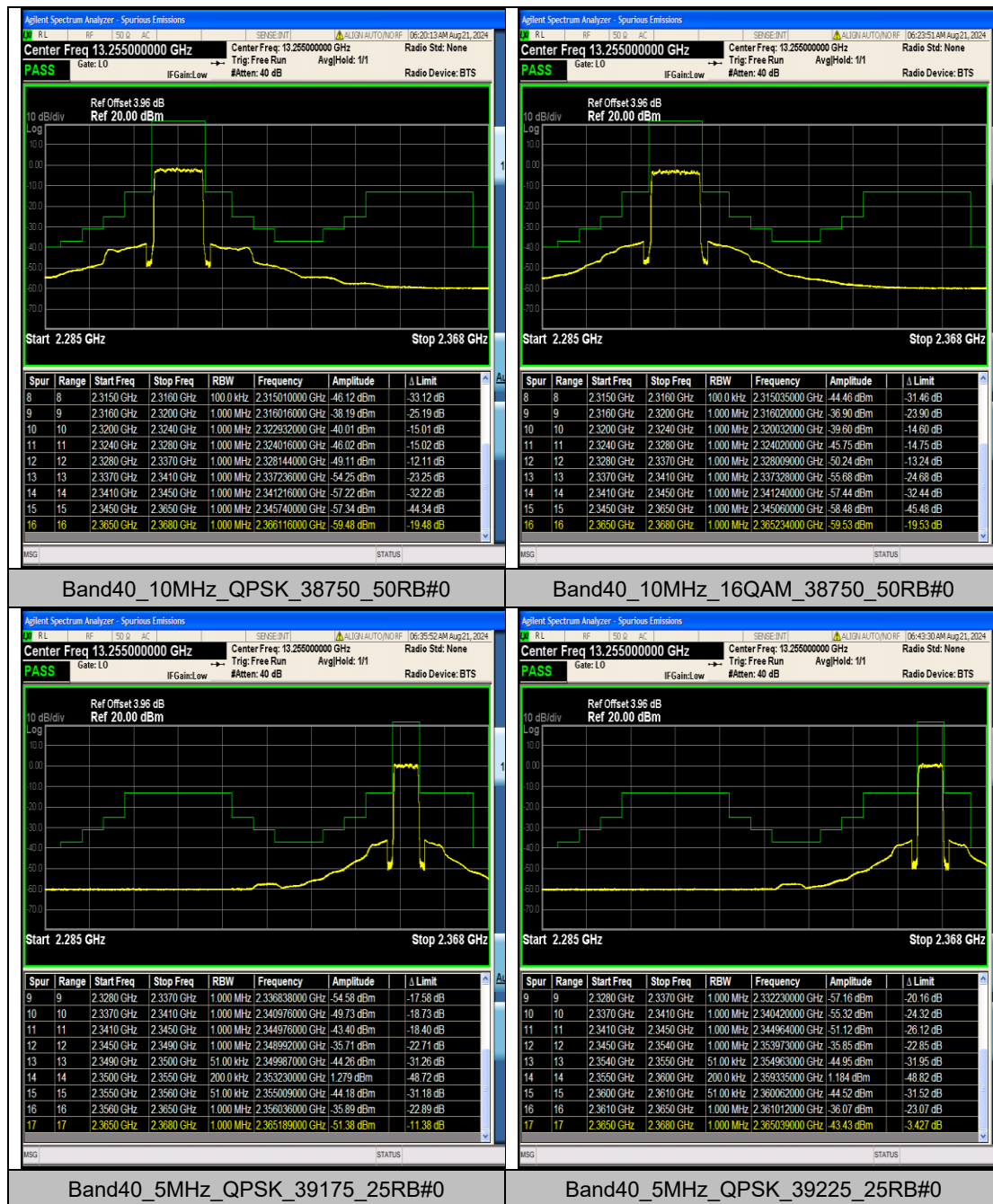
## Appendix D: Band Edge

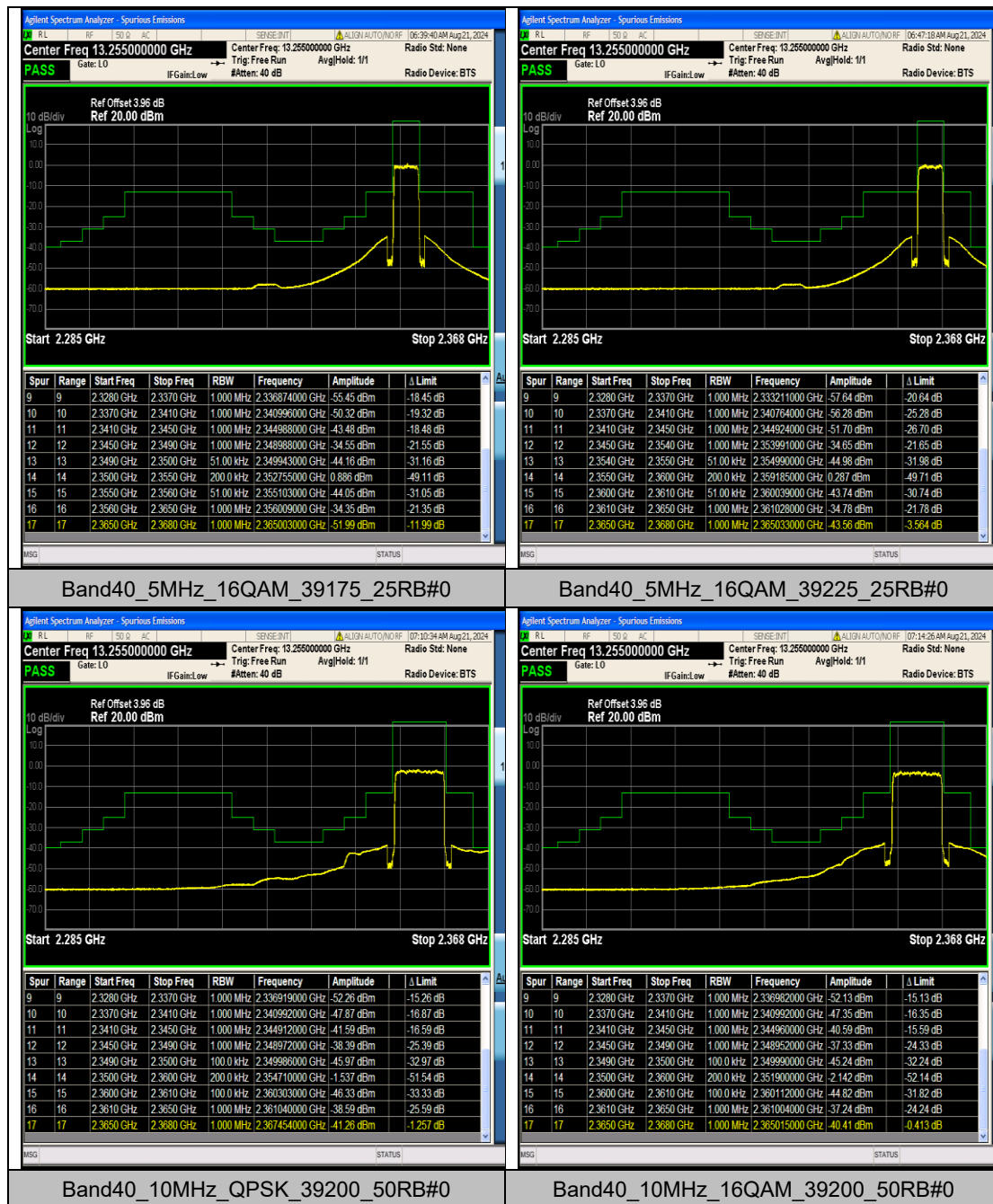
### Test Result

| Band              | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------------------|-----------|------------|---------|------------------|-------------|---------|
| Band40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | -53.90      | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | -57.15      | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0           | -42.24      | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38775   | 25RB#0           | -42.62      | PASS    |
| Band40(2305-2315) | 10MHz     | QPSK       | 38750   | 50RB#0           | -49.11      | PASS    |
| Band40(2305-2315) | 10MHz     | 16QAM      | 38750   | 50RB#0           | -50.24      | PASS    |
| Band40(2350-2360) | 5MHz      | QPSK       | 39175   | 25RB#0           | -51.38      | PASS    |
| Band40(2350-2360) | 5MHz      | QPSK       | 39225   | 25RB#0           | -43.43      | PASS    |
| Band40(2350-2360) | 5MHz      | 16QAM      | 39175   | 25RB#0           | -51.99      | PASS    |
| Band40(2350-2360) | 5MHz      | 16QAM      | 39225   | 25RB#0           | -43.56      | PASS    |
| Band40(2350-2360) | 10MHz     | QPSK       | 39200   | 50RB#0           | -41.26      | PASS    |
| Band40(2350-2360) | 10MHz     | 16QAM      | 39200   | 50RB#0           | -40.41      | PASS    |

## Test Graphs







## Appendix E: Conducted Spurious Emission

### Test Result

| Band              | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|-------------------|-----------|------------|---------|------------------|-----------------|--------------|---------|
| Band40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | 0.009~0.15      | -70.32       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | 0.15~30         | -65.10       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | 30~1000         | -67.05       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | 1000~3000       | -51.20       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38725   | 25RB#0           | 3000~26500      | -60.36       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0           | 0.009~0.15      | -71.21       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0           | 0.15~30         | -67.72       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0           | 30~1000         | -67.15       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0           | 1000~3000       | -50.40       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38750   | 25RB#0           | 3000~26500      | -60.41       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | 0.009~0.15      | -71.93       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | 0.15~30         | -65.25       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | 30~1000         | -66.97       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | 1000~3000       | -50.46       | PASS    |
| Band40(2305-2315) | 5MHz      | QPSK       | 38775   | 25RB#0           | 3000~26500      | -60.40       | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0           | 0.009~0.15      | -86.12       | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0           | 0.15~30         | -68.40       | PASS    |
| Band40(2305-2315) | 5MHz      | 16QAM      | 38725   | 25RB#0           | 30~1000         | -67.02       | PASS    |

|                   |       |       |       |        |                |            |      |
|-------------------|-------|-------|-------|--------|----------------|------------|------|
| Band40(2305-2315) | 5MHz  | 16QAM | 38725 | 25RB#0 | 1000~3000      | -<br>52.27 | PASS |
| Band40(2305-2315) | 5MHz  | 16QAM | 38725 | 25RB#0 | 3000~2650<br>0 | -<br>60.48 | PASS |
| Band40(2305-2315) | 5MHz  | 16QAM | 38750 | 25RB#0 | 0.009~0.15     | -<br>84.15 | PASS |
| Band40(2305-2315) | 5MHz  | 16QAM | 38750 | 25RB#0 | 0.15~30        | -<br>70.24 | PASS |
| Band40(2305-2315) | 5MHz  | 16QAM | 38750 | 25RB#0 | 30~1000        | -<br>67.13 | PASS |
| Band40(2305-2315) | 5MHz  | 16QAM | 38750 | 25RB#0 | 1000~3000      | -<br>51.76 | PASS |
| Band40(2305-2315) | 5MHz  | 16QAM | 38750 | 25RB#0 | 3000~2650<br>0 | -<br>60.45 | PASS |
| Band40(2305-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | 0.009~0.15     | -<br>83.13 | PASS |
| Band40(2305-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | 0.15~30        | -<br>68.04 | PASS |
| Band40(2305-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | 30~1000        | -<br>67.07 | PASS |
| Band40(2305-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | 1000~3000      | -<br>51.41 | PASS |
| Band40(2305-2315) | 5MHz  | 16QAM | 38775 | 25RB#0 | 3000~2650<br>0 | -<br>60.38 | PASS |
| Band40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | 0.009~0.15     | -<br>70.16 | PASS |
| Band40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | 0.15~30        | -<br>65.95 | PASS |
| Band40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | 30~1000        | -<br>67.03 | PASS |
| Band40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | 1000~3000      | -<br>50.79 | PASS |
| Band40(2305-2315) | 10MHz | QPSK  | 38750 | 50RB#0 | 3000~2650<br>0 | -<br>60.28 | PASS |
| Band40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | 0.009~0.15     | -<br>71.77 | PASS |
| Band40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | 0.15~30        | -<br>67.82 | PASS |
| Band40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | 30~1000        | -<br>67.12 | PASS |
| Band40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | 1000~3000      | -<br>51.98 | PASS |
| Band40(2305-2315) | 10MHz | 16QAM | 38750 | 50RB#0 | 3000~2650<br>0 | -<br>60.48 | PASS |

|                   |      |       |       |        |                |            |      |
|-------------------|------|-------|-------|--------|----------------|------------|------|
| Band40(2350-2360) | 5MHz | QPSK  | 39175 | 25RB#0 | 0.009~0.15     | -<br>71.35 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39175 | 25RB#0 | 0.15~30        | -<br>68.87 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39175 | 25RB#0 | 30~1000        | -<br>67.03 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39175 | 25RB#0 | 1000~3000      | -<br>47.97 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39175 | 25RB#0 | 3000~2650<br>0 | -<br>60.40 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39200 | 25RB#0 | 0.009~0.15     | -<br>73.15 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39200 | 25RB#0 | 0.15~30        | -<br>67.19 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39200 | 25RB#0 | 30~1000        | -<br>67.16 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39200 | 25RB#0 | 1000~3000      | -<br>48.27 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39200 | 25RB#0 | 3000~2650<br>0 | -<br>60.43 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39225 | 25RB#0 | 0.009~0.15     | -<br>72.13 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39225 | 25RB#0 | 0.15~30        | -<br>68.74 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39225 | 25RB#0 | 30~1000        | -<br>67.10 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39225 | 25RB#0 | 1000~3000      | -<br>48.63 | PASS |
| Band40(2350-2360) | 5MHz | QPSK  | 39225 | 25RB#0 | 3000~2650<br>0 | -<br>60.39 | PASS |
| Band40(2350-2360) | 5MHz | 16QAM | 39175 | 25RB#0 | 0.009~0.15     | -<br>71.44 | PASS |
| Band40(2350-2360) | 5MHz | 16QAM | 39175 | 25RB#0 | 0.15~30        | -<br>65.69 | PASS |
| Band40(2350-2360) | 5MHz | 16QAM | 39175 | 25RB#0 | 30~1000        | -<br>67.32 | PASS |
| Band40(2350-2360) | 5MHz | 16QAM | 39175 | 25RB#0 | 1000~3000      | -<br>48.95 | PASS |
| Band40(2350-2360) | 5MHz | 16QAM | 39175 | 25RB#0 | 3000~2650<br>0 | -<br>60.45 | PASS |
| Band40(2350-2360) | 5MHz | 16QAM | 39200 | 25RB#0 | 0.009~0.15     | -<br>73.94 | PASS |
| Band40(2350-2360) | 5MHz | 16QAM | 39200 | 25RB#0 | 0.15~30        | -<br>68.17 | PASS |

|                   |       |       |       |        |                |            |      |
|-------------------|-------|-------|-------|--------|----------------|------------|------|
| Band40(2350-2360) | 5MHz  | 16QAM | 39200 | 25RB#0 | 30~1000        | -<br>67.16 | PASS |
| Band40(2350-2360) | 5MHz  | 16QAM | 39200 | 25RB#0 | 1000~3000      | -<br>49.83 | PASS |
| Band40(2350-2360) | 5MHz  | 16QAM | 39200 | 25RB#0 | 3000~2650<br>0 | -<br>60.42 | PASS |
| Band40(2350-2360) | 5MHz  | 16QAM | 39225 | 25RB#0 | 0.009~0.15     | -<br>71.74 | PASS |
| Band40(2350-2360) | 5MHz  | 16QAM | 39225 | 25RB#0 | 0.15~30        | -<br>65.68 | PASS |
| Band40(2350-2360) | 5MHz  | 16QAM | 39225 | 25RB#0 | 30~1000        | -<br>67.12 | PASS |
| Band40(2350-2360) | 5MHz  | 16QAM | 39225 | 25RB#0 | 1000~3000      | -<br>50.09 | PASS |
| Band40(2350-2360) | 5MHz  | 16QAM | 39225 | 25RB#0 | 3000~2650<br>0 | -<br>60.38 | PASS |
| Band40(2350-2360) | 10MHz | QPSK  | 39200 | 50RB#0 | 0.009~0.15     | -<br>72.42 | PASS |
| Band40(2350-2360) | 10MHz | QPSK  | 39200 | 50RB#0 | 0.15~30        | -<br>68.79 | PASS |
| Band40(2350-2360) | 10MHz | QPSK  | 39200 | 50RB#0 | 30~1000        | -<br>66.94 | PASS |
| Band40(2350-2360) | 10MHz | QPSK  | 39200 | 50RB#0 | 1000~3000      | -<br>51.25 | PASS |
| Band40(2350-2360) | 10MHz | QPSK  | 39200 | 50RB#0 | 3000~2650<br>0 | -<br>60.48 | PASS |
| Band40(2350-2360) | 10MHz | 16QAM | 39200 | 50RB#0 | 0.009~0.15     | -<br>74.15 | PASS |
| Band40(2350-2360) | 10MHz | 16QAM | 39200 | 50RB#0 | 0.15~30        | -<br>67.59 | PASS |
| Band40(2350-2360) | 10MHz | 16QAM | 39200 | 50RB#0 | 30~1000        | -<br>67.27 | PASS |
| Band40(2350-2360) | 10MHz | 16QAM | 39200 | 50RB#0 | 1000~3000      | -<br>52.19 | PASS |
| Band40(2350-2360) | 10MHz | 16QAM | 39200 | 50RB#0 | 3000~2650<br>0 | -<br>60.52 | PASS |

## Test Graphs

