

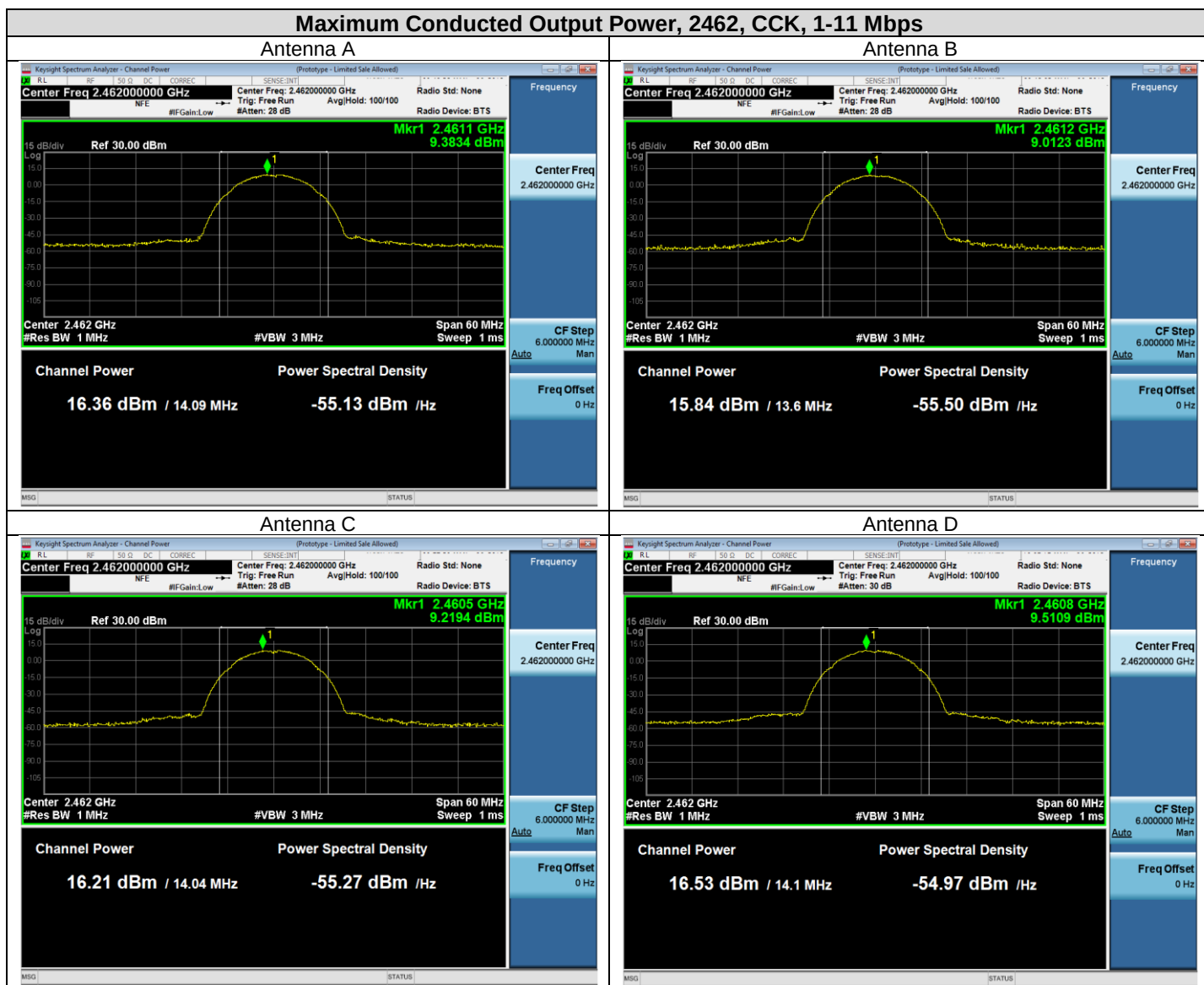
|      |                                     |   |    |   |       |      |      |      |      |       |    |       |
|------|-------------------------------------|---|----|---|-------|------|------|------|------|-------|----|-------|
|      | HT20 STBC, M0 to M7                 | 2 | 15 | 3 | 98.76 | 15.3 | 14.9 |      |      | 18.17 | 30 | 11.83 |
|      | HT20 STBC, M0 to M7                 | 3 | 15 | 3 | 98.76 | 15.3 | 14.9 | 15.2 |      | 19.96 | 30 | 10.04 |
|      | HT20 STBC, M0 to M7                 | 4 | 14 | 3 | 98.76 | 14.2 | 14.0 | 14.3 | 14.6 | 20.36 | 30 | 9.64  |
|      | HE20, M0 to M7                      | 1 | 15 | 3 | 98.28 | 15.6 |      |      |      | 15.68 | 30 | 14.32 |
|      | HE20, M0 to M7                      | 2 | 14 | 3 | 98.28 | 14.5 | 14.3 |      |      | 17.49 | 30 | 12.51 |
|      | HE20, M8 to M15                     | 2 | 14 | 3 | 98.28 | 14.5 | 14.3 |      |      | 17.49 | 30 | 12.51 |
|      | HE20, M0 to M7                      | 3 | 14 | 3 | 98.28 | 14.5 | 14.3 | 14.6 |      | 19.32 | 30 | 10.68 |
|      | HE20, M8 to M15                     | 3 | 14 | 3 | 98.28 | 14.5 | 14.3 | 14.6 |      | 19.32 | 30 | 10.68 |
|      | HE20, M16 to M23                    | 3 | 14 | 3 | 98.28 | 14.5 | 14.3 | 14.6 |      | 19.32 | 30 | 10.68 |
|      | HE20, M0 to M7                      | 4 | 13 | 3 | 98.28 | 13.6 | 13.4 | 13.6 | 14.0 | 19.75 | 30 | 10.25 |
|      | HE20, M8 to M15                     | 4 | 13 | 3 | 98.28 | 13.6 | 13.4 | 13.6 | 14.0 | 19.75 | 30 | 10.25 |
|      | HE20, M16 to M23                    | 4 | 13 | 3 | 98.28 | 13.6 | 13.4 | 13.6 | 14.0 | 19.75 | 30 | 10.25 |
|      | HE20, M24 to M31                    | 4 | 13 | 3 | 98.28 | 13.6 | 13.4 | 13.6 | 14.0 | 19.75 | 30 | 10.25 |
|      | HE20 Beam Forming, M0 to M7         | 2 | 14 | 6 | 98.28 | 14.5 | 14.3 |      |      | 17.49 | 30 | 12.51 |
|      | HE20 Beam Forming, M8 to M15        | 2 | 14 | 3 | 98.28 | 14.5 | 14.3 |      |      | 17.49 | 30 | 12.51 |
|      | HE20 Beam Forming, M0 to M7         | 3 | 12 | 8 | 98.28 | 12.8 | 12.5 | 12.6 |      | 17.48 | 28 | 10.52 |
|      | HE20 Beam Forming, M8 to M15        | 3 | 13 | 5 | 98.28 | 13.6 | 13.4 | 13.6 |      | 18.38 | 30 | 11.62 |
|      | HE20 Beam Forming, M16 to M23       | 3 | 14 | 3 | 98.28 | 14.5 | 14.3 | 14.6 |      | 19.32 | 30 | 10.68 |
|      | HE20 Beam Forming, M0 to M7         | 4 | 10 | 9 | 98.28 | 10.7 | 10.6 | 10.6 | 11.1 | 16.85 | 27 | 10.15 |
|      | HE20 Beam Forming, M8 to M15        | 4 | 12 | 6 | 98.28 | 12.8 | 12.5 | 12.6 | 12.8 | 18.7  | 30 | 11.3  |
|      | HE20 Beam Forming, M16 to M23       | 4 | 13 | 4 | 98.28 | 13.6 | 13.4 | 13.6 | 14.0 | 19.6  | 30 | 10.4  |
|      | HE20 Beam Forming, M24 to M31       | 4 | 13 | 3 | 98.28 | 13.6 | 13.4 | 13.6 | 14.0 | 19.6  | 30 | 10.4  |
|      | HE20 STBC, M0 to M7                 | 2 | 14 | 3 | 98.28 | 14.5 | 14.3 |      |      | 19.21 | 30 | 10.79 |
|      | HE20 STBC, M0 to M7                 | 3 | 14 | 3 | 98.28 | 14.5 | 14.3 | 14.6 |      | 20.52 | 30 | 9.48  |
|      | HE20 STBC, M0 to M7                 | 4 | 13 | 3 | 98.28 | 13.6 | 13.4 | 13.6 | 14.0 | 19.6  | 30 | 10.4  |
| 2437 |                                     |   |    |   |       |      |      |      |      |       |    |       |
|      | CCK, 1 to 11 MB/s                   | 1 | 17 | 3 | 69.13 | 16.2 |      |      |      | 18.11 | 30 | 11.89 |
|      | CCK, 1 to 11 MB/s                   | 2 | 17 | 3 | 69.13 | 16.2 | 16.1 |      |      | 20.87 | 30 | 9.13  |
|      | CCK, 1 to 11 MB/s                   | 3 | 17 | 3 | 69.13 | 16.2 | 16.1 | 16.0 |      | 22.51 | 30 | 7.49  |
|      | CCK, 1 to 11 MB/s                   | 4 | 17 | 3 | 69.13 | 16.2 | 16.1 | 16.0 | 16.2 | 23.75 | 30 | 6.25  |
|      | Non HT20, 6 to 54 Mbps              | 1 | 17 | 3 | 99.01 | 17.4 |      |      |      | 17.67 | 30 | 12.33 |
|      | Non HT20, 6 to 54 Mbps              | 2 | 17 | 3 | 99.01 | 17.4 | 17.0 |      |      | 20.34 | 30 | 9.66  |
|      | Non HT20, 6 to 54 Mbps              | 3 | 17 | 3 | 99.01 | 17.4 | 17.0 | 17.4 |      | 22.11 | 30 | 7.89  |
|      | Non HT20, 6 to 54 Mbps              | 4 | 17 | 3 | 99.01 | 17.4 | 17.0 | 17.4 | 17.7 | 23.45 | 30 | 6.55  |
|      | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 17 | 6 | 99.01 | 17.4 | 17.0 |      |      | 20.34 | 30 | 9.66  |
|      | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 17 | 8 | 99.01 | 17.4 | 17.0 | 17.4 |      | 22.11 | 28 | 5.89  |
|      | Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 17 | 9 | 99.01 | 17.4 | 17.0 | 17.4 | 17.7 | 23.45 | 27 | 3.55  |
|      | HT20, M0 to M7                      | 1 | 17 | 3 | 98.76 | 17.3 |      |      |      | 17.59 | 30 | 12.41 |
|      | HT20, M0 to M7                      | 2 | 17 | 3 | 98.76 | 17.3 | 17.1 |      |      | 20.35 | 30 | 9.65  |
|      | HT20, M8 to M15                     | 2 | 17 | 3 | 98.76 | 17.3 | 17.1 |      |      | 20.35 | 30 | 9.65  |
|      | HT20, M0 to M7                      | 3 | 17 | 3 | 98.76 | 17.3 | 17.1 | 17.2 |      | 22.05 | 30 | 7.95  |
|      | HT20, M8 to M15                     | 3 | 17 | 3 | 98.76 | 17.3 | 17.1 | 17.2 |      | 22.05 | 30 | 7.95  |
|      | HT20, M16 to M23                    | 3 | 17 | 3 | 98.76 | 17.3 | 17.1 | 17.2 |      | 22.05 | 30 | 7.95  |
|      | HT20, M0 to M7                      | 4 | 17 | 3 | 98.76 | 17.3 | 17.1 | 17.2 | 17.5 | 23.35 | 30 | 6.65  |
|      | HT20, M8 to M15                     | 4 | 17 | 3 | 98.76 | 17.3 | 17.1 | 17.2 | 17.5 | 23.35 | 30 | 6.65  |

|      |                               |   |    |   |       |      |      |      |      |       |    |       |
|------|-------------------------------|---|----|---|-------|------|------|------|------|-------|----|-------|
|      | HT20, M16 to M23              | 4 | 17 | 3 | 98.76 | 17.3 | 17.1 | 17.2 | 17.5 | 23.35 | 30 | 6.65  |
|      | HT20, M24 to M31              | 4 | 17 | 3 | 98.76 | 17.3 | 17.1 | 17.2 | 17.5 | 23.35 | 30 | 6.65  |
|      | HT20 Beam Forming, M0 to M7   | 2 | 17 | 6 | 98.76 | 17.3 | 17.1 |      |      | 20.35 | 30 | 9.65  |
|      | HT20 Beam Forming, M8 to M15  | 2 | 17 | 3 | 98.76 | 17.3 | 17.1 |      |      | 22.02 | 30 | 7.98  |
|      | HT20 Beam Forming, M0 to M7   | 3 | 17 | 8 | 98.76 | 17.3 | 17.1 | 17.2 |      | 23.25 | 28 | 4.75  |
|      | HT20 Beam Forming, M8 to M15  | 3 | 17 | 5 | 98.76 | 17.3 | 17.1 | 17.2 |      | 23.25 | 30 | 6.75  |
|      | HT20 Beam Forming, M16 to M23 | 3 | 17 | 3 | 98.76 | 17.3 | 17.1 | 17.2 |      | 23.25 | 30 | 6.75  |
|      | HT20 Beam Forming, M0 to M7   | 4 | 17 | 9 | 98.76 | 17.3 | 17.1 | 17.2 | 17.5 | 23.25 | 27 | 3.75  |
|      | HT20 Beam Forming, M8 to M15  | 4 | 17 | 6 | 98.76 | 17.3 | 17.1 | 17.2 | 17.5 | 22.1  | 30 | 7.9   |
|      | HT20 Beam Forming, M16 to M23 | 4 | 17 | 4 | 98.76 | 17.3 | 17.1 | 17.2 | 17.5 | 22.1  | 30 | 7.9   |
|      | HT20 Beam Forming, M24 to M31 | 4 | 17 | 3 | 98.76 | 17.3 | 17.1 | 17.2 | 17.5 | 23.35 | 30 | 6.65  |
|      | HT20 STBC, M0 to M7           | 2 | 17 | 3 | 98.76 | 17.3 | 17.1 |      |      | 20.35 | 30 | 9.65  |
|      | HT20 STBC, M0 to M7           | 3 | 17 | 3 | 98.76 | 17.3 | 17.1 | 17.2 |      | 22.05 | 30 | 7.95  |
|      | HT20 STBC, M0 to M7           | 4 | 17 | 3 | 98.76 | 17.3 | 17.1 | 17.2 | 17.5 | 23.35 | 30 | 6.65  |
|      | HE20, M0 to M7                | 1 | 17 | 3 | 98.28 | 17.4 |      |      |      | 17.48 | 30 | 12.52 |
|      | HE20, M0 to M7                | 2 | 17 | 3 | 98.28 | 17.4 | 17.3 |      |      | 20.44 | 30 | 9.56  |
|      | HE20, M8 to M15               | 2 | 17 | 3 | 98.28 | 17.4 | 17.3 |      |      | 20.44 | 30 | 9.56  |
|      | HE20, M0 to M7                | 3 | 17 | 3 | 98.28 | 17.4 | 17.3 | 17.7 |      | 22.32 | 30 | 7.68  |
|      | HE20, M8 to M15               | 3 | 17 | 3 | 98.28 | 17.4 | 17.3 | 17.7 |      | 22.32 | 30 | 7.68  |
|      | HE20, M16 to M23              | 3 | 17 | 3 | 98.28 | 17.4 | 17.3 | 17.7 |      | 22.32 | 30 | 7.68  |
|      | HE20, M0 to M7                | 4 | 17 | 3 | 98.28 | 17.4 | 17.3 | 17.7 | 17.8 | 23.65 | 30 | 6.35  |
|      | HE20, M8 to M15               | 4 | 17 | 3 | 98.28 | 17.4 | 17.3 | 17.7 | 17.8 | 23.65 | 30 | 6.35  |
|      | HE20, M16 to M23              | 4 | 17 | 3 | 98.28 | 17.4 | 17.3 | 17.7 | 17.8 | 23.65 | 30 | 6.35  |
|      | HE20, M24 to M31              | 4 | 17 | 3 | 98.28 | 17.4 | 17.3 | 17.7 | 17.8 | 23.65 | 30 | 6.35  |
|      | HE20 Beam Forming, M0 to M7   | 2 | 17 | 6 | 98.28 | 17.4 | 17.3 |      |      | 20.44 | 30 | 9.56  |
|      | HE20 Beam Forming, M8 to M15  | 2 | 17 | 3 | 98.28 | 17.4 | 17.3 |      |      | 20.44 | 30 | 9.56  |
|      | HE20 Beam Forming, M0 to M7   | 3 | 17 | 8 | 98.28 | 17.4 | 17.3 | 17.7 |      | 22.32 | 28 | 5.68  |
|      | HE20 Beam Forming, M8 to M15  | 3 | 17 | 5 | 98.28 | 17.4 | 17.3 | 17.7 |      | 22.32 | 30 | 7.68  |
|      | HE20 Beam Forming, M16 to M23 | 3 | 17 | 3 | 98.28 | 17.4 | 17.3 | 17.7 |      | 22.32 | 30 | 7.68  |
|      | HE20 Beam Forming, M0 to M7   | 4 | 17 | 9 | 98.28 | 17.4 | 17.3 | 17.7 | 17.8 | 23.65 | 27 | 3.35  |
|      | HE20 Beam Forming, M8 to M15  | 4 | 17 | 6 | 98.28 | 17.4 | 17.3 | 17.7 | 17.8 | 23.65 | 30 | 6.35  |
|      | HE20 Beam Forming, M16 to M23 | 4 | 17 | 4 | 98.28 | 17.4 | 17.3 | 17.7 | 17.8 | 23.65 | 30 | 6.35  |
|      | HE20 Beam Forming, M24 to M31 | 4 | 17 | 3 | 98.28 | 17.4 | 17.3 | 17.7 | 17.8 | 23.65 | 30 | 6.35  |
|      | HE20 STBC, M0 to M7           | 2 | 17 | 3 | 98.28 | 17.4 | 17.3 |      |      | 20.44 | 30 | 9.56  |
|      | HE20 STBC, M0 to M7           | 3 | 17 | 3 | 98.28 | 17.4 | 17.3 | 17.7 |      | 22.32 | 30 | 7.68  |
|      | HE20 STBC, M0 to M7           | 4 | 17 | 3 | 98.28 | 17.4 | 17.3 | 17.7 | 17.8 | 23.65 | 30 | 6.35  |
| 2462 |                               |   |    |   |       |      |      |      |      |       |    |       |
|      | CCK, 1 to 11 MB/s             | 1 | 17 | 3 | 69.13 | 16.4 |      |      |      | 18.29 | 30 | 11.71 |
|      | CCK, 1 to 11 MB/s             | 2 | 17 | 3 | 69.13 | 16.4 | 15.8 |      |      | 20.83 | 30 | 9.17  |
|      | CCK, 1 to 11 MB/s             | 3 | 17 | 3 | 69.13 | 16.4 | 15.8 | 16.2 |      | 22.55 | 30 | 7.45  |
|      | CCK, 1 to 11 MB/s             | 4 | 17 | 3 | 69.13 | 16.4 | 15.8 | 16.2 | 16.5 | 23.86 | 30 | 6.14  |
|      | Non HT20, 6 to 54 Mbps        | 1 | 15 | 3 | 99.01 | 15.3 |      |      |      | 15.71 | 30 | 14.29 |
|      | Non HT20, 6 to 54 Mbps        | 2 | 15 | 3 | 99.01 | 15.3 | 15.0 |      |      | 18.34 | 30 | 11.66 |
|      | Non HT20, 6 to 54 Mbps        | 3 | 14 | 3 | 99.01 | 14.3 | 14.1 | 14.2 |      | 19.07 | 30 | 10.93 |
|      | Non HT20, 6 to 54 Mbps        | 4 | 14 | 3 | 99.01 | 14.3 | 14.1 | 14.2 | 14.4 | 20.32 | 30 | 9.68  |

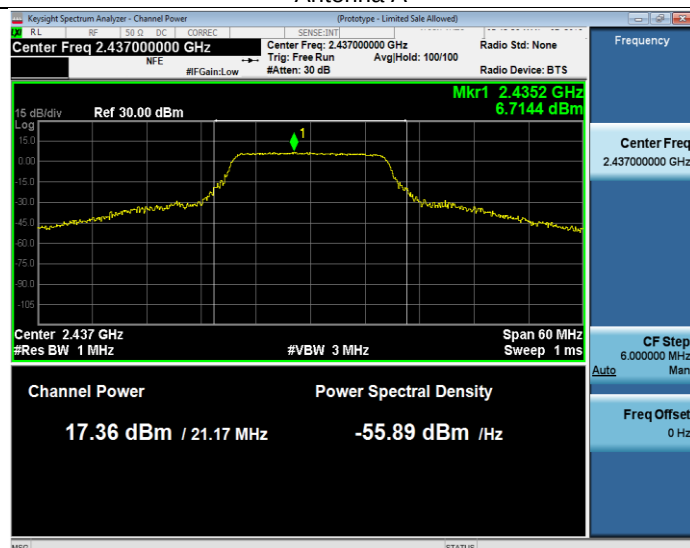
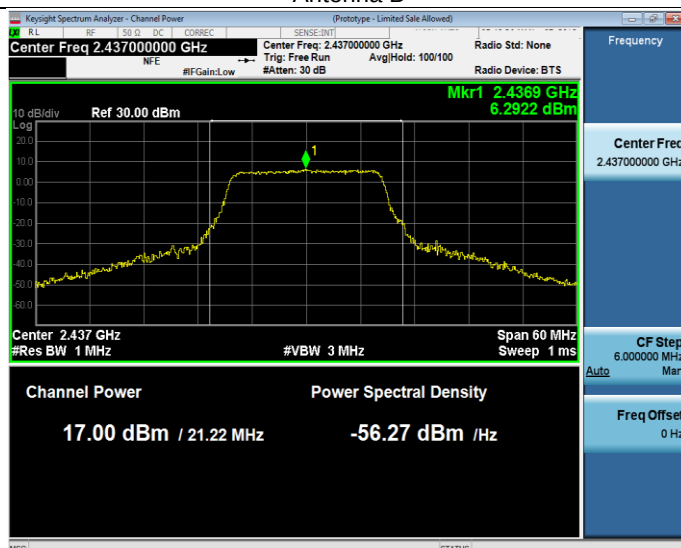
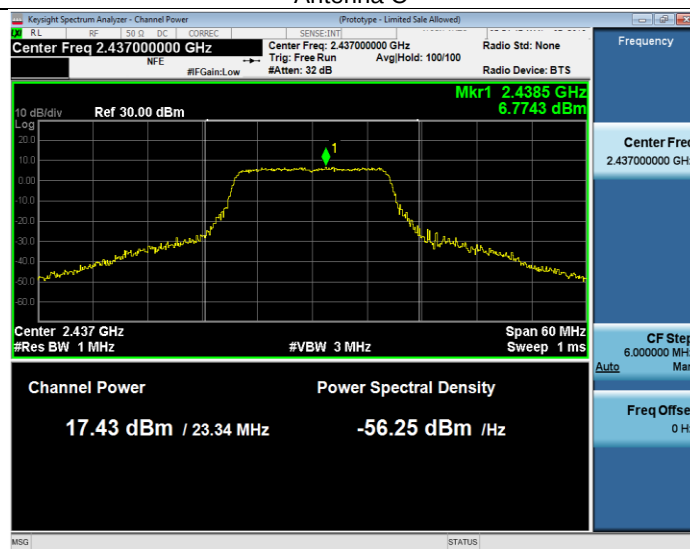
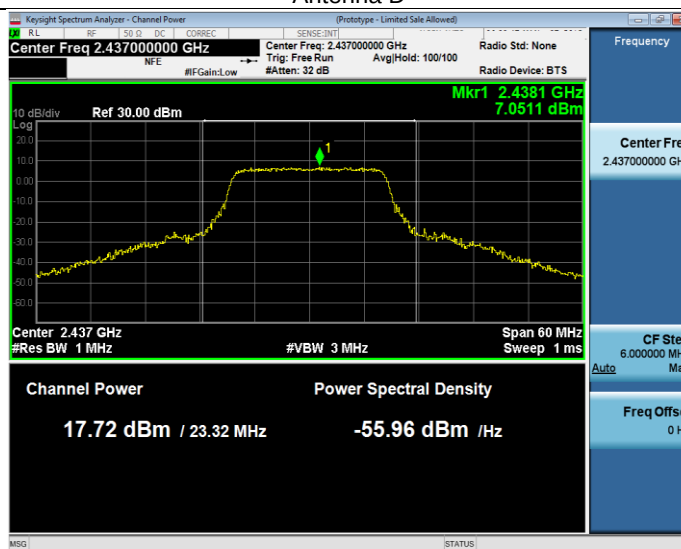
|                                     |   |    |   |       |      |      |      |      |       |    |       |
|-------------------------------------|---|----|---|-------|------|------|------|------|-------|----|-------|
| Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 14 | 6 | 99.01 | 14.3 | 14.1 |      |      | 17.42 | 30 | 12.58 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 13 | 8 | 99.01 | 13.4 | 13.1 | 13.4 |      | 18.18 | 28 | 9.82  |
| Non HT20 Beam Forming, 6 to 54 Mbps | 4 | 12 | 9 | 99.01 | 12.3 | 12.1 | 12.5 | 12.2 | 18.34 | 27 | 8.66  |
| HT20, M0 to M7                      | 1 | 15 | 3 | 98.76 | 15.4 |      |      |      | 15.81 | 30 | 14.19 |
| HT20, M0 to M7                      | 2 | 15 | 3 | 98.76 | 15.4 | 14.8 |      |      | 18.31 | 30 | 11.69 |
| HT20, M8 to M15                     | 2 | 15 | 3 | 98.76 | 15.4 | 14.8 |      |      | 18.31 | 30 | 11.69 |
| HT20, M0 to M7                      | 3 | 14 | 3 | 98.76 | 14.2 | 14.0 | 14.3 |      | 19.05 | 30 | 10.95 |
| HT20, M8 to M15                     | 3 | 14 | 3 | 98.76 | 14.2 | 14.0 | 14.3 |      | 19.05 | 30 | 10.95 |
| HT20, M16 to M23                    | 3 | 14 | 3 | 98.76 | 14.2 | 14.0 | 14.3 |      | 19.05 | 30 | 10.95 |
| HT20, M0 to M7                      | 4 | 14 | 3 | 98.76 | 14.2 | 14.0 | 14.3 | 14.3 | 20.28 | 30 | 9.72  |
| HT20, M8 to M15                     | 4 | 14 | 3 | 98.76 | 14.2 | 14.0 | 14.3 | 14.3 | 20.28 | 30 | 9.72  |
| HT20, M16 to M23                    | 4 | 14 | 3 | 98.76 | 14.2 | 14.0 | 14.3 | 14.3 | 20.28 | 30 | 9.72  |
| HT20, M24 to M31                    | 4 | 14 | 3 | 98.76 | 14.2 | 14.0 | 14.3 | 14.3 | 20.28 | 30 | 9.72  |
| HT20 Beam Forming, M0 to M7         | 2 | 14 | 6 | 98.76 | 14.2 | 14.0 |      |      | 17.33 | 30 | 12.67 |
| HT20 Beam Forming, M8 to M15        | 2 | 15 | 3 | 98.76 | 15.4 | 14.8 |      |      | 19.88 | 30 | 10.12 |
| HT20 Beam Forming, M0 to M7         | 3 | 13 | 8 | 98.76 | 13.3 | 13.0 | 13.4 |      | 19.25 | 28 | 8.75  |
| HT20 Beam Forming, M8 to M15        | 3 | 14 | 5 | 98.76 | 14.2 | 14.0 | 14.3 |      | 20.2  | 30 | 9.8   |
| HT20 Beam Forming, M16 to M23       | 3 | 14 | 3 | 98.76 | 14.2 | 14.0 | 14.3 |      | 20.2  | 30 | 9.8   |
| HT20 Beam Forming, M0 to M7         | 4 | 12 | 9 | 98.76 | 12.3 | 12.0 | 12.4 | 12.3 | 18.25 | 27 | 8.75  |
| HT20 Beam Forming, M8 to M15        | 4 | 13 | 6 | 98.76 | 13.3 | 13.0 | 13.4 | 13.8 | 18.24 | 30 | 11.76 |
| HT20 Beam Forming, M16 to M23       | 4 | 14 | 4 | 98.76 | 14.2 | 14.0 | 14.3 | 14.3 | 19.03 | 30 | 10.97 |
| HT20 Beam Forming, M24 to M31       | 4 | 14 | 3 | 98.76 | 14.2 | 14.0 | 14.3 | 14.3 | 20.28 | 30 | 9.72  |
| HT20 STBC, M0 to M7                 | 2 | 15 | 3 | 98.76 | 15.4 | 14.8 |      |      | 18.31 | 30 | 11.69 |
| HT20 STBC, M0 to M7                 | 3 | 14 | 3 | 98.76 | 14.2 | 14.0 | 14.3 |      | 19.05 | 30 | 10.95 |
| HT20 STBC, M0 to M7                 | 4 | 14 | 3 | 98.76 | 14.2 | 14.0 | 14.3 | 14.3 | 20.28 | 30 | 9.72  |
| HE20, M0 to M7                      | 1 | 14 | 3 | 98.28 | 14.5 |      |      |      | 14.58 | 30 | 15.42 |
| HE20, M0 to M7                      | 2 | 14 | 3 | 98.28 | 14.5 | 14.4 |      |      | 17.54 | 30 | 12.46 |
| HE20, M8 to M15                     | 2 | 14 | 3 | 98.28 | 14.5 | 14.4 |      |      | 17.54 | 30 | 12.46 |
| HE20, M0 to M7                      | 3 | 13 | 3 | 98.28 | 13.6 | 13.3 | 13.7 |      | 18.38 | 30 | 11.62 |
| HE20, M8 to M15                     | 3 | 13 | 3 | 98.28 | 13.6 | 13.3 | 13.7 |      | 18.38 | 30 | 11.62 |
| HE20, M16 to M23                    | 3 | 13 | 3 | 98.28 | 13.6 | 13.3 | 13.7 |      | 18.38 | 30 | 11.62 |
| HE20, M0 to M7                      | 4 | 13 | 3 | 98.28 | 13.6 | 13.3 | 13.7 | 14.0 | 19.75 | 30 | 10.25 |
| HE20, M8 to M15                     | 4 | 13 | 3 | 98.28 | 13.6 | 13.3 | 13.7 | 14.0 | 19.75 | 30 | 10.25 |
| HE20, M16 to M23                    | 4 | 13 | 3 | 98.28 | 13.6 | 13.3 | 13.7 | 14.0 | 19.75 | 30 | 10.25 |
| HE20, M24 to M31                    | 4 | 13 | 3 | 98.28 | 13.6 | 13.3 | 13.7 | 14.0 | 19.75 | 30 | 10.25 |
| HE20 Beam Forming, M0 to M7         | 2 | 13 | 6 | 98.28 | 13.6 | 13.3 |      |      | 16.54 | 30 | 13.46 |
| HE20 Beam Forming, M8 to M15        | 2 | 14 | 3 | 98.28 | 14.5 | 14.4 |      |      | 17.54 | 30 | 12.46 |
| HE20 Beam Forming, M0 to M7         | 3 | 12 | 8 | 98.28 | 12.6 | 12.4 | 12.6 |      | 17.38 | 28 | 10.62 |
| HE20 Beam Forming, M8 to M15        | 3 | 13 | 5 | 98.28 | 13.6 | 13.3 | 13.7 |      | 18.38 | 30 | 11.62 |
| HE20 Beam Forming, M16 to M23       | 3 | 13 | 3 | 98.28 | 13.6 | 13.3 | 13.7 |      | 18.38 | 30 | 11.62 |
| HE20 Beam Forming, M0 to M7         | 4 | 11 | 9 | 98.28 | 11.8 | 11.6 | 11.8 | 12.0 | 17.9  | 27 | 9.1   |
| HE20 Beam Forming, M8 to M15        | 4 | 12 | 6 | 98.28 | 12.6 | 12.4 | 12.6 | 12.8 | 18.7  | 30 | 11.3  |
| HE20 Beam Forming, M16 to M23       | 4 | 13 | 4 | 98.28 | 13.6 | 13.3 | 13.7 | 14.0 | 19.75 | 30 | 10.25 |
| HE20 Beam Forming, M24 to M31       | 4 | 13 | 3 | 98.28 | 13.6 | 13.3 | 13.7 | 14.0 | 19.75 | 30 | 10.25 |
| HE20 STBC, M0 to M7                 | 2 | 14 | 3 | 98.28 | 14.5 | 14.4 |      |      | 17.54 | 30 | 12.46 |

|  |                     |   |    |   |       |      |      |      |      |       |    |       |
|--|---------------------|---|----|---|-------|------|------|------|------|-------|----|-------|
|  | HE20 STBC, M0 to M7 | 3 | 13 | 3 | 98.28 | 13.6 | 13.3 | 13.7 |      | 18.38 | 30 | 11.62 |
|  | HE20 STBC, M0 to M7 | 4 | 13 | 3 | 98.28 | 13.6 | 13.3 | 13.7 | 14.0 | 19.75 | 30 | 10.25 |

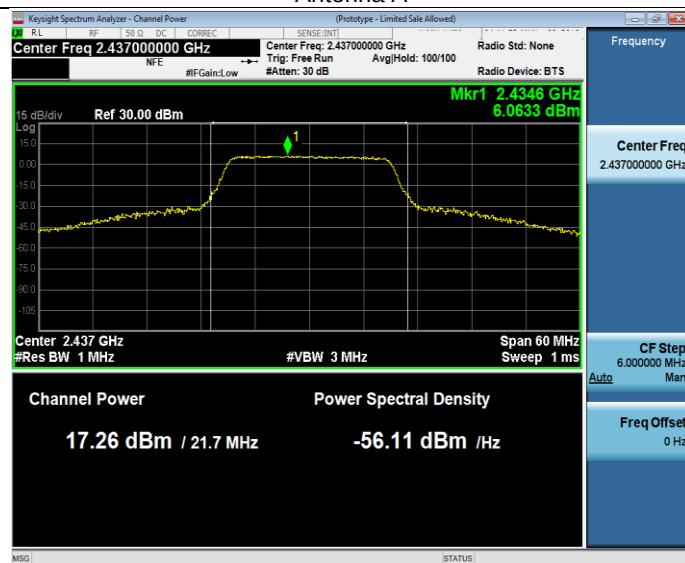
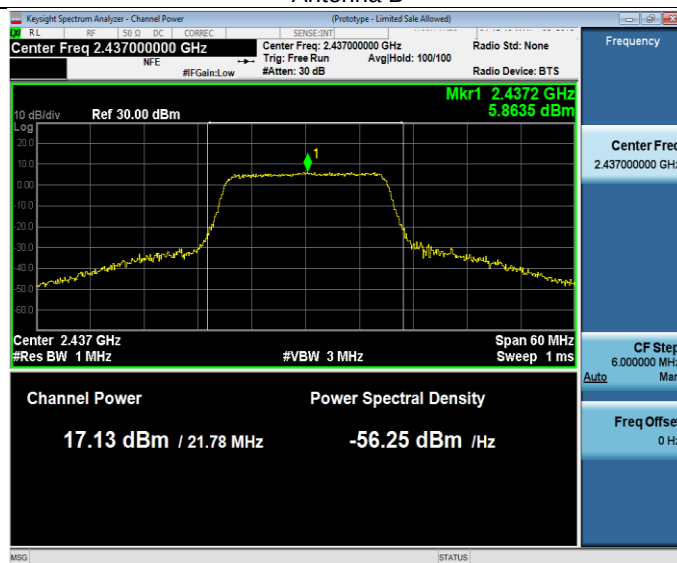
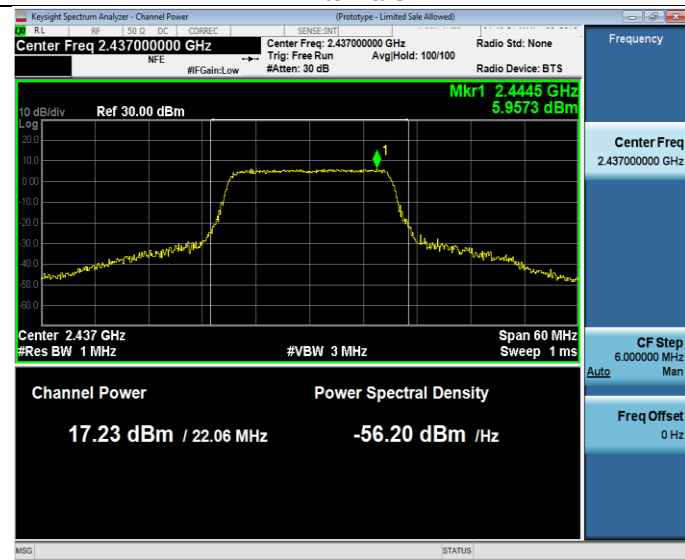
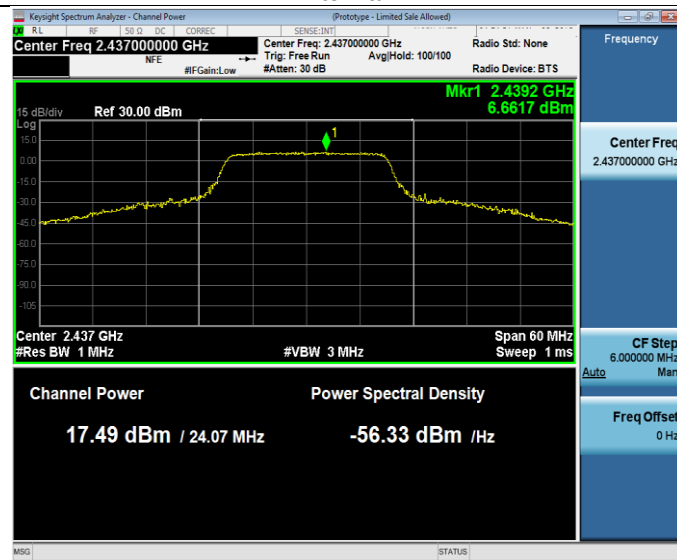
### 5.4.5 Maximum Conducted Output Power Screenshots



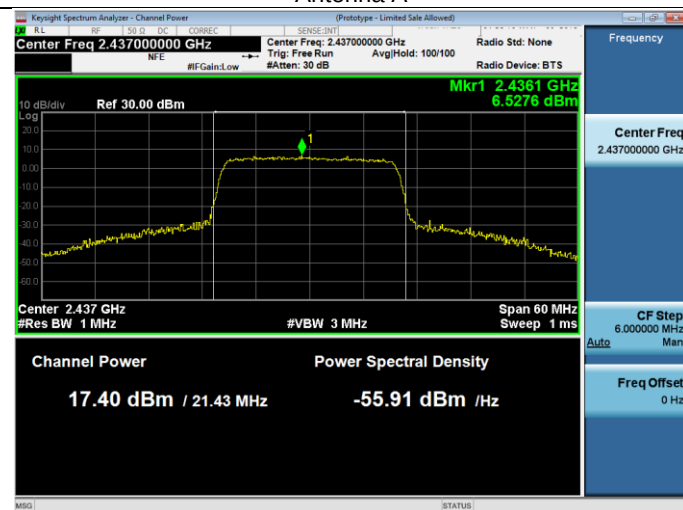
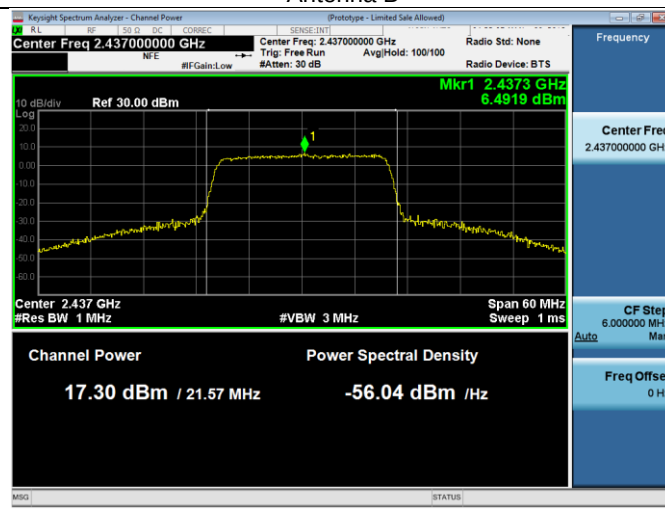
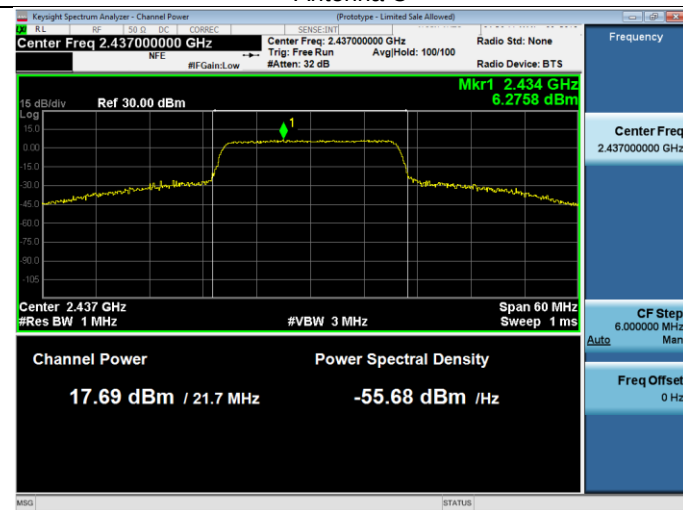
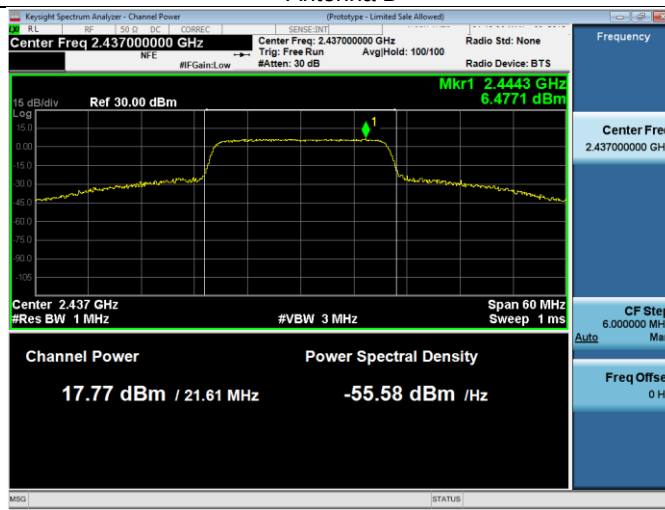
### Maximum Conducted Output Power, 2437, NonHT20, 6-54 Mbps

**Antenna A**

**Antenna B**

**Antenna C**

**Antenna D**


### Maximum Conducted Output Power, 2437, HT20, M0 – M31

**Antenna A**

**Antenna B**

**Antenna C**

**Antenna D**


### Maximum Conducted Output Power, 2437, HE20, M0 – M11

**Antenna A**

**Antenna B**

**Antenna C**

**Antenna D**


## **5.5 Power Spectral Density**

### **5.5.1 Power Spectral Density Test Requirement**

15.247 (e) / RSS-247 5.2 (b) / LP0002 (2018-01-10) (3.10.1.6) (2) (B):

#### **5.2 Digital transmission systems**

DTSs include systems that employ digital modulation techniques resulting in spectral characteristics similar to direct sequence systems. The following applies to the bands 902-928 MHz and 2400-2483.5 MHz:

b) The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

## 5.5.2 Power Spectral Density Test Method

Ref. KDB 558074 D01 DTS Meas. Guidance v04

ANSI C63.10: 2013

|                               |
|-------------------------------|
| <b>Power Spectral Density</b> |
|-------------------------------|

|                |
|----------------|
| Test Procedure |
|----------------|

- |                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Set the radio in the continuous transmitting mode at full power</li> <li>2. Configure Spectrum analyzer as per test parameters below and Peak search marker</li> <li>3. Capture graphs and record pertinent measurement data.</li> </ol> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Ref. 558074 D01 DTS Meas. Guidance v04, section 10.2 Peak PSD

ANSI C63.10: 2013, section 11.10.2 Peak PSD

|                               |
|-------------------------------|
| <b>Power Spectral Density</b> |
|-------------------------------|

|                 |
|-----------------|
| Test parameters |
|-----------------|

|                                     |
|-------------------------------------|
| <b>10.2 Method PKPSD (peak PSD)</b> |
|-------------------------------------|

|                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>a) Set analyzer center frequency to DTS channel center frequency.</li> <li>b) Set the span to 1.5 times the <i>DTS bandwidth</i>.</li> <li>c) Set the RBW to: <math>3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}</math>.</li> <li>d) Set the VBW <math>\geq 3 \times \text{RBW}</math>.</li> <li>e) Detector = peak.</li> <li>f) Sweep time = auto couple.</li> <li>g) Trace mode = max hold.</li> <li>h) Allow trace to fully stabilize.</li> <li>i) Use the peak marker function to determine the maximum amplitude level within the RBW.</li> <li>j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.</li> </ol> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

The “Measure and add  $10 \log(N)$  dB technique”, where N is the number of outputs, is used for measuring in-band Power Spectral Density. With this technique, spectrum measurements are performed at each output of the device, and the quantity  $10 \log(4)$  (or 6dB) is added to the worst case spectrum value before comparing to the emission limit. (See ANSI C63.10 section 14.3.2.3)

### 5.5.3 Power Spectral Density Test Information

#### Samples, Systems, and Modes

| System Number | Description | Samples | System under test                   | Support equipment                   |
|---------------|-------------|---------|-------------------------------------|-------------------------------------|
| 1             | EUT         | S01     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|               | Support     | S02     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| <b>Tested By:</b><br>Julian Land | <b>Date of testing:</b><br>11/5/2018 – 11/8/2018 |
| <b>Test Result:</b> PASS         |                                                  |

#### Test Equipment

See Appendix A for list of test equipment

### 5.5.4 Power Spectral Density Data Table

| Frequency (MHz) | Mode                               | Tx Paths | Index Power (dBm) | Correlated Antenna Gain (dBi) | Duty Cycle | Tx 1 PSD (dBm/3kHz) | Tx 2 PSD (dBm/3kHz) | Tx 3 PSD (dBm/3kHz) | Tx 4 PSD (dBm/3kHz) | Total PSD - corrected for duty cycle (dBm/3kHz) | Limit (dBm/3kHz) | Margin (dB) |
|-----------------|------------------------------------|----------|-------------------|-------------------------------|------------|---------------------|---------------------|---------------------|---------------------|-------------------------------------------------|------------------|-------------|
| 2412            | CCK, 1 – 11 Mbps                   | 1        | 17                | 3                             | 69.13      | -3.734              |                     |                     |                     | -2.13                                           | 8                | 10.13       |
|                 | CCK, 1 – 11 Mbps                   | 2        | 17                | 3                             | 69.13      | -3.734              | 0.046               |                     |                     | 3.17                                            | 8                | 4.83        |
|                 | CCK, 1 – 11 Mbps                   | 3        | 17                | 3                             | 69.13      | -3.734              | 0.046               | -4.692              |                     | 4.09                                            | 8                | 3.91        |
|                 | CCK, 1 – 11 Mbps                   | 4        | 17                | 3                             | 69.13      | -3.734              | 0.046               | -4.692              | -3.224              | 5.12                                            | 8                | 2.88        |
|                 | Non HT20, 6 – 54 Mbps              | 1        | 15                | 3                             | 99.01      | -1.755              |                     |                     |                     | -1.71                                           | 8                | 9.71        |
|                 | Non HT20, 6 – 54 Mbps              | 2        | 15                | 3                             | 99.01      | -1.755              | -0.319              |                     |                     | 2.08                                            | 8                | 5.92        |
|                 | Non HT20, 6 – 54 Mbps              | 3        | 14                | 3                             | 99.01      | -3.125              | -0.870              | -6.002              |                     | 1.96                                            | 8                | 6.04        |
|                 | Non HT20, 6 – 54 Mbps              | 4        | 14                | 3                             | 99.01      | -3.125              | -0.870              | -6.002              | -4.546              | 2.85                                            | 8                | 5.15        |
|                 | Non HT20 Beam Forming, 6 – 54 Mbps | 2        | 14                | 6                             | 99.01      | -3.125              | -0.870              |                     |                     | 1.2                                             | 8                | 6.8         |
|                 | Non HT20 Beam Forming, 6 – 54 Mbps | 3        | 13                | 8                             | 99.01      | -3.598              | -2.074              | -7.131              |                     | 1.01                                            | 8                | 6.99        |
|                 | Non HT20 Beam Forming, 6 – 54 Mbps | 4        | 11                | 9                             | 99.01      | -5.183              | -4.367              | -10.155             | -7.488              | -0.21                                           | 8                | 8.21        |
|                 | HT20, M0 - M7                      | 1        | 16                | 3                             | 98.76      | -1.259              |                     |                     |                     | -1.2                                            | 8                | 9.2         |
|                 | HT20, M0 - M7                      | 2        | 15                | 3                             | 98.76      | -1.808              | -0.737              |                     |                     | 1.83                                            | 8                | 6.17        |
|                 | HT20, M8 - M15                     | 2        | 15                | 3                             | 98.76      | -1.808              | -0.737              |                     |                     | 1.83                                            | 8                | 6.17        |
|                 | HT20, M0 - M7                      | 3        | 15                | 3                             | 98.76      | -1.808              | -0.737              | -5.913              |                     | 2.51                                            | 8                | 5.49        |
|                 | HT20, M8 - M15                     | 3        | 15                | 3                             | 98.76      | -1.808              | -0.737              | -5.913              |                     | 2.51                                            | 8                | 5.49        |
|                 | HT20, M16 - M23                    | 3        | 15                | 3                             | 98.76      | -1.808              | -0.737              | -5.913              |                     | 2.51                                            | 8                | 5.49        |
|                 | HT20, M0 - M7                      | 4        | 14                | 3                             | 98.76      | -2.744              | -1.652              | -7.024              | -5.216              | 2.4                                             | 8                | 5.6         |
|                 | HT20, M8 - M15                     | 4        | 14                | 3                             | 98.76      | -2.744              | -1.652              | -7.024              | -5.216              | 2.4                                             | 8                | 5.6         |
|                 | HT20, M16 - M23                    | 4        | 14                | 3                             | 98.76      | -2.744              | -1.652              | -7.024              | -5.216              | 2.4                                             | 8                | 5.6         |
|                 | HT20, M24 - M31                    | 4        | 14                | 3                             | 98.76      | -2.744              | -1.652              | -7.024              | -5.216              | 2.4                                             | 8                | 5.6         |
|                 | HT20 Beam Forming, M0 - M7         | 2        | 14                | 6                             | 98.76      | -2.744              | -1.652              |                     |                     | 0.9                                             | 8                | 7.1         |
|                 | HT20 Beam Forming, M8 - M15        | 2        | 15                | 3                             | 98.76      | -1.808              | -0.737              |                     |                     | 3.76                                            | 8                | 4.24        |
|                 | HT20 Beam Forming, M0 - M7         | 3        | 13                | 8                             | 98.76      | -3.830              | -2.785              | -7.270              |                     | 2.24                                            | 8                | 5.76        |
|                 | HT20 Beam Forming, M8 - M15        | 3        | 14                | 5                             | 98.76      | -2.744              | -1.652              | -7.024              |                     | 3.27                                            | 8                | 4.73        |
|                 | HT20 Beam Forming, M16 - M23       | 3        | 15                | 3                             | 98.76      | -1.808              | -0.737              | -5.913              |                     | 4.21                                            | 8                | 3.79        |
|                 | HT20 Beam Forming, M0 - M7         | 4        | 11                | 9                             | 98.76      | -5.375              | -4.450              | -9.429              | -7.616              | 0.55                                            | 8                | 7.45        |
|                 | HT20 Beam Forming, M8 to M15       | 4        | 13                | 6                             | 98.76      | -3.830              | -2.785              | -7.270              | -5.162              | 0.14                                            | 8                | 7.86        |
|                 | HT20 Beam Forming, M16 to M23      | 4        | 14                | 4                             | 98.76      | -2.744              | -1.652              | -7.024              | -5.216              | 0.78                                            | 8                | 7.22        |
|                 | HT20 Beam Forming, M24 to M31      | 4        | 14                | 3                             | 98.76      | -2.744              | -1.652              | -7.024              | -5.216              | 2.4                                             | 8                | 5.6         |
|                 | HT20 STBC, M0 to M7                | 2        | 15                | 3                             | 98.76      | -1.808              | -0.737              |                     |                     | 1.83                                            | 8                | 6.17        |
|                 | HT20 STBC, M0 to M7                | 3        | 15                | 3                             | 98.76      | -1.808              | -0.737              | -5.913              |                     | 2.51                                            | 8                | 5.49        |
|                 | HT20 STBC, M0 to M7                | 4        | 14                | 3                             | 98.76      | -2.744              | -1.652              | -7.024              | -5.216              | 2.4                                             | 8                | 5.6         |

|      |                                    |   |    |   |       |        |        |        |        |       |   |       |
|------|------------------------------------|---|----|---|-------|--------|--------|--------|--------|-------|---|-------|
|      | HE20, M0 - M7                      | 1 | 16 | 3 | 98.28 | -1.182 |        |        |        | -1.11 | 8 | 9.11  |
|      | HE20, M0 - M7                      | 2 | 15 | 3 | 98.28 | -1.658 | -1.033 |        |        | 1.75  | 8 | 6.25  |
|      | HE20, M8 - M15                     | 2 | 15 | 3 | 98.28 | -1.658 | -1.033 |        |        | 1.75  | 8 | 6.25  |
|      | HE20, M0 - M7                      | 3 | 15 | 3 | 98.28 | -1.658 | -1.033 | -6.330 |        | 2.39  | 8 | 5.61  |
|      | HE20, M8 - M15                     | 3 | 15 | 3 | 98.28 | -1.658 | -1.033 | -6.330 |        | 2.39  | 8 | 5.61  |
|      | HE20, M16 - M23                    | 3 | 15 | 3 | 98.28 | -1.658 | -1.033 | -6.330 |        | 2.39  | 8 | 5.61  |
|      | HE20, M0 - M7                      | 4 | 14 | 3 | 98.28 | -3.152 | -1.960 | -6.568 | -5.074 | 2.26  | 8 | 5.74  |
|      | HE20, M8 - M15                     | 4 | 14 | 3 | 98.28 | -3.152 | -1.960 | -6.568 | -5.074 | 2.26  | 8 | 5.74  |
|      | HE20, M16 - M23                    | 4 | 14 | 3 | 98.28 | -3.152 | -1.960 | -6.568 | -5.074 | 2.26  | 8 | 5.74  |
|      | HE20, M24 - M31                    | 4 | 14 | 3 | 98.28 | -3.152 | -1.960 | -6.568 | -5.074 | 2.26  | 8 | 5.74  |
|      | HE20 Beam Forming, M0 - M7         | 2 | 14 | 6 | 98.28 | -3.152 | -1.960 |        |        | 0.57  | 8 | 7.43  |
|      | HE20 Beam Forming, M8 - M15        | 2 | 15 | 3 | 98.28 | -1.658 | -1.033 |        |        | 1.75  | 8 | 6.25  |
|      | HE20 Beam Forming, M0 - M7         | 3 | 13 | 8 | 98.28 | -4.048 | -2.479 | -8.507 |        | 0.49  | 8 | 7.51  |
|      | HE20 Beam Forming, M8 - M15        | 3 | 14 | 5 | 98.28 | -3.152 | -1.960 | -6.568 |        | 1.35  | 8 | 6.65  |
|      | HE20 Beam Forming, M16 - M23       | 3 | 15 | 3 | 98.28 | -1.658 | -1.033 | -6.330 |        | 2.39  | 8 | 5.61  |
|      | HE20 Beam Forming, M0 - M7         | 4 | 11 | 9 | 98.28 | -5.949 | -4.097 | -9.679 | -8.268 | -0.38 | 8 | 8.38  |
|      | HE20 Beam Forming, M8 to M15       | 4 | 13 | 6 | 98.28 | -4.048 | -2.479 | -8.507 | -5.749 | 2.29  | 8 | 5.71  |
|      | HE20 Beam Forming, M16 to M23      | 4 | 14 | 4 | 98.28 | -3.152 | -1.960 | -6.568 | -5.074 | 3.04  | 8 | 4.96  |
|      | HE20 Beam Forming, M24 to M31      | 4 | 14 | 3 | 98.28 | -3.152 | -1.960 | -6.568 | -5.074 | 3.04  | 8 | 4.96  |
|      | HE20 STBC, M0 to M7                | 2 | 15 | 3 | 98.28 | -1.658 | -1.033 |        |        | 3.62  | 8 | 4.38  |
|      | HE20 STBC, M0 to M7                | 3 | 15 | 3 | 98.28 | -1.658 | -1.033 | -6.330 |        | 4.04  | 8 | 3.96  |
|      | HE20 STBC, M0 to M7                | 4 | 14 | 3 | 98.28 | -3.152 | -1.960 | -6.568 | -5.074 | 3.04  | 8 | 4.96  |
|      |                                    |   |    |   |       |        |        |        |        |       |   |       |
| 2437 | CCK, 1 to 11 MB/s                  | 1 | 17 | 3 | 69.13 | -3.688 |        |        |        | -2.08 | 8 | 10.08 |
|      | CCK, 1 to 11 MB/s                  | 2 | 17 | 3 | 69.13 | -3.688 | 0.894  |        |        | 3.79  | 8 | 4.21  |
|      | CCK, 1 to 11 MB/s                  | 3 | 17 | 3 | 69.13 | -3.688 | 0.894  | -4.505 |        | 4.64  | 8 | 3.36  |
|      | CCK, 1 to 11 MB/s                  | 4 | 17 | 3 | 69.13 | -3.688 | 0.894  | -4.505 | -2.815 | 5.64  | 8 | 2.36  |
|      | Non HT20, 6 to 54 Mbps             | 1 | 17 | 3 | 99.01 | 0.040  |        |        |        | 0.08  | 8 | 7.92  |
|      | Non HT20, 6 to 54 Mbps             | 2 | 17 | 3 | 99.01 | 0.040  | 1.990  |        |        | 4.18  | 8 | 3.82  |
|      | Non HT20, 6 to 54 Mbps             | 3 | 17 | 3 | 99.01 | 0.040  | 1.990  | -3.868 |        | 4.82  | 8 | 3.18  |
|      | Non HT20, 6 to 54 Mbps             | 4 | 17 | 3 | 99.01 | 0.040  | 1.990  | -3.868 | -1.622 | 5.71  | 8 | 2.29  |
|      | Non HT20 Beam Forming, 6 - 54 Mbps | 2 | 17 | 6 | 99.01 | 0.040  | 1.990  |        |        | 4.18  | 8 | 3.82  |
|      | Non HT20 Beam Forming, 6 - 54 Mbps | 3 | 17 | 8 | 99.01 | 0.040  | 1.990  | -3.868 |        | 4.82  | 8 | 3.18  |
|      | Non HT20 Beam Forming, 6 - 54 Mbps | 4 | 17 | 9 | 99.01 | 0.040  | 1.990  | -3.868 | -1.622 | 5.71  | 8 | 2.29  |
|      | HT20, M0 to M7                     | 1 | 17 | 3 | 98.76 | 0.015  |        |        |        | 0.07  | 8 | 7.93  |
|      | HT20, M0 to M7                     | 2 | 17 | 3 | 98.76 | 0.015  | 1.520  |        |        | 3.9   | 8 | 4.1   |
|      | HT20, M8 to M15                    | 2 | 17 | 3 | 98.76 | 0.015  | 1.520  |        |        | 3.9   | 8 | 4.1   |
|      | HT20, M0 to M7                     | 3 | 17 | 3 | 98.76 | 0.015  | 1.520  | -3.815 |        | 4.58  | 8 | 3.42  |
|      | HT20, M8 to M15                    | 3 | 17 | 3 | 98.76 | 0.015  | 1.520  | -3.815 |        | 4.58  | 8 | 3.42  |
|      | HT20, M16 to M23                   | 3 | 17 | 3 | 98.76 | 0.015  | 1.520  | -3.815 |        | 4.58  | 8 | 3.42  |
|      | HT20, M0 to M7                     | 4 | 17 | 3 | 98.76 | 0.015  | 1.520  | -3.815 | -1.740 | 5.5   | 8 | 2.5   |
|      | HT20, M8 to M15                    | 4 | 17 | 3 | 98.76 | 0.015  | 1.520  | -3.815 | -1.740 | 5.5   | 8 | 2.5   |
|      | HT20, M16 to M23                   | 4 | 17 | 3 | 98.76 | 0.015  | 1.520  | -3.815 | -1.740 | 5.5   | 8 | 2.5   |
|      | HT20, M24 to M31                   | 4 | 17 | 3 | 98.76 | 0.015  | 1.520  | -3.815 | -1.740 | 5.5   | 8 | 2.5   |
|      | HT20 Beam Forming, M0 to M7        | 2 | 17 | 6 | 98.76 | 0.015  | 1.520  |        |        | 3.9   | 8 | 4.1   |

|      |                                    |   |    |   |       |        |        |        |        |       |   |      |
|------|------------------------------------|---|----|---|-------|--------|--------|--------|--------|-------|---|------|
|      | HT20 Beam Forming, M8 to M15       | 2 | 17 | 3 | 98.76 | 0.015  | 1.520  |        |        | 5.9   | 8 | 2.1  |
|      | HT20 Beam Forming, M0 to M7        | 3 | 17 | 8 | 98.76 | 0.015  | 1.520  | -3.815 |        | 6.35  | 8 | 1.65 |
|      | HT20 Beam Forming, M8 to M15       | 3 | 17 | 5 | 98.76 | 0.015  | 1.520  | -3.815 |        | 6.35  | 8 | 1.65 |
|      | HT20 Beam Forming, M16 to M23      | 3 | 17 | 3 | 98.76 | 0.015  | 1.520  | -3.815 |        | 6.35  | 8 | 1.65 |
|      | HT20 Beam Forming, M0 to M7        | 4 | 17 | 9 | 98.76 | 0.015  | 1.520  | -3.815 | -1.740 | 6.35  | 8 | 1.65 |
|      | HT20 Beam Forming, M8 to M15       | 4 | 17 | 6 | 98.76 | 0.015  | 1.520  | -3.815 | -1.740 | 4.04  | 8 | 3.96 |
|      | HT20 Beam Forming, M16 to M23      | 4 | 17 | 4 | 98.76 | 0.015  | 1.520  | -3.815 | -1.740 | 4.04  | 8 | 3.96 |
|      | HT20 Beam Forming, M24 to M31      | 4 | 17 | 3 | 98.76 | 0.015  | 1.520  | -3.815 | -1.740 | 5.5   | 8 | 2.5  |
|      | HT20 STBC, M0 to M7                | 2 | 17 | 3 | 98.76 | 0.015  | 1.520  |        |        | 3.9   | 8 | 4.1  |
|      | HT20 STBC, M0 to M7                | 3 | 17 | 3 | 98.76 | 0.015  | 1.520  | -3.815 |        | 4.58  | 8 | 3.42 |
|      | HT20 STBC, M0 to M7                | 4 | 17 | 3 | 98.76 | 0.015  | 1.520  | -3.815 | -1.740 | 5.5   | 8 | 2.5  |
|      | HE20, M0 to M7                     | 1 | 17 | 3 | 98.28 | 0.542  |        |        |        | 0.62  | 8 | 7.38 |
|      | HE20, M0 to M7                     | 2 | 17 | 3 | 98.28 | 0.542  | 1.461  |        |        | 4.11  | 8 | 3.89 |
|      | HE20, M8 to M15                    | 2 | 17 | 3 | 98.28 | 0.542  | 1.461  |        |        | 4.11  | 8 | 3.89 |
|      | HE20, M0 to M7                     | 3 | 17 | 3 | 98.28 | 0.542  | 1.461  | -4.257 |        | 4.71  | 8 | 3.29 |
|      | HE20, M8 to M15                    | 3 | 17 | 3 | 98.28 | 0.542  | 1.461  | -4.257 |        | 4.71  | 8 | 3.29 |
|      | HE20, M16 to M23                   | 3 | 17 | 3 | 98.28 | 0.542  | 1.461  | -4.257 |        | 4.71  | 8 | 3.29 |
|      | HE20, M0 to M7                     | 4 | 17 | 3 | 98.28 | 0.542  | 1.461  | -4.257 | -2.301 | 5.51  | 8 | 2.49 |
|      | HE20, M8 to M15                    | 4 | 17 | 3 | 98.28 | 0.542  | 1.461  | -4.257 | -2.301 | 5.51  | 8 | 2.49 |
|      | HE20, M16 to M23                   | 4 | 17 | 3 | 98.28 | 0.542  | 1.461  | -4.257 | -2.301 | 5.51  | 8 | 2.49 |
|      | HE20, M24 to M31                   | 4 | 17 | 3 | 98.28 | 0.542  | 1.461  | -4.257 | -2.301 | 5.51  | 8 | 2.49 |
|      | HE20 Beam Forming, M0 to M7        | 2 | 17 | 6 | 98.28 | 0.542  | 1.461  |        |        | 4.11  | 8 | 3.89 |
|      | HE20 Beam Forming, M8 to M15       | 2 | 17 | 3 | 98.28 | 0.542  | 1.461  |        |        | 4.11  | 8 | 3.89 |
|      | HE20 Beam Forming, M0 to M7        | 3 | 17 | 8 | 98.28 | 0.542  | 1.461  | -4.257 |        | 4.71  | 8 | 3.29 |
|      | HE20 Beam Forming, M8 to M15       | 3 | 17 | 5 | 98.28 | 0.542  | 1.461  | -4.257 |        | 4.71  | 8 | 3.29 |
|      | HE20 Beam Forming, M16 to M23      | 3 | 17 | 3 | 98.28 | 0.542  | 1.461  | -4.257 |        | 4.71  | 8 | 3.29 |
|      | HE20 Beam Forming, M0 to M7        | 4 | 17 | 9 | 98.28 | 0.542  | 1.461  | -4.257 | -2.301 | 5.51  | 8 | 2.49 |
|      | HE20 Beam Forming, M8 to M15       | 4 | 17 | 6 | 98.28 | 0.542  | 1.461  | -4.257 | -2.301 | 6.42  | 8 | 1.58 |
|      | HE20 Beam Forming, M16 to M23      | 4 | 17 | 4 | 98.28 | 0.542  | 1.461  | -4.257 | -2.301 | 6.42  | 8 | 1.58 |
|      | HE20 Beam Forming, M24 to M31      | 4 | 17 | 3 | 98.28 | 0.542  | 1.461  | -4.257 | -2.301 | 6.42  | 8 | 1.58 |
|      | HE20 STBC, M0 to M7                | 2 | 17 | 3 | 98.28 | 0.542  | 1.461  |        |        | 6.02  | 8 | 1.98 |
|      | HE20 STBC, M0 to M7                | 3 | 17 | 3 | 98.28 | 0.542  | 1.461  | -4.257 |        | 6.42  | 8 | 1.58 |
|      | HE20 STBC, M0 to M7                | 4 | 17 | 3 | 98.28 | 0.542  | 1.461  | -4.257 | -2.301 | 6.42  | 8 | 1.58 |
|      |                                    |   |    |   |       |        |        |        |        |       |   |      |
| 2462 | CCK, 1 to 11 MB/s                  | 1 | 17 | 3 | 69.13 | -3.551 |        |        |        | -1.95 | 8 | 9.95 |
|      | CCK, 1 to 11 MB/s                  | 2 | 17 | 3 | 69.13 | -3.551 | 0.674  |        |        | 3.67  | 8 | 4.33 |
|      | CCK, 1 to 11 MB/s                  | 3 | 17 | 3 | 69.13 | -3.551 | 0.674  | -5.749 |        | 4.33  | 8 | 3.67 |
|      | CCK, 1 to 11 MB/s                  | 4 | 17 | 3 | 69.13 | -3.551 | 0.674  | -5.749 | -2.922 | 5.38  | 8 | 2.62 |
|      | Non HT20, 6 to 54 Mbps             | 1 | 15 | 3 | 99.01 | -1.777 |        |        |        | -1.73 | 8 | 9.73 |
|      | Non HT20, 6 to 54 Mbps             | 2 | 15 | 3 | 99.01 | -1.777 | -0.721 |        |        | 1.84  | 8 | 6.16 |
|      | Non HT20, 6 to 54 Mbps             | 3 | 14 | 3 | 99.01 | -2.930 | -1.381 | -5.992 |        | 1.77  | 8 | 6.23 |
|      | Non HT20, 6 to 54 Mbps             | 4 | 14 | 3 | 99.01 | -2.930 | -1.381 | -5.992 | -4.872 | 2.63  | 8 | 5.37 |
|      | Non HT20 Beam Forming, 6 - 54 Mbps | 2 | 14 | 6 | 99.01 | -2.930 | -1.381 |        |        | 0.97  | 8 | 7.03 |
|      | Non HT20 Beam Forming, 6 - 54 Mbps | 3 | 13 | 8 | 99.01 | -3.534 | -1.325 | -6.958 |        | 1.45  | 8 | 6.55 |
|      | Non HT20 Beam Forming, 6 - 54 Mbps | 4 | 12 | 9 | 99.01 | -4.501 | -2.659 | -8.744 | -7.346 | 0.89  | 8 | 7.11 |

|                               |   |    |   |       |        |        |        |        |       |   |       |
|-------------------------------|---|----|---|-------|--------|--------|--------|--------|-------|---|-------|
| HT20, M0 to M7                | 1 | 15 | 3 | 98.76 | -1.912 |        |        |        | -1.86 | 8 | 9.86  |
| HT20, M0 to M7                | 2 | 15 | 3 | 98.76 | -1.912 | -0.981 |        |        | 1.64  | 8 | 6.36  |
| HT20, M8 to M15               | 2 | 15 | 3 | 98.76 | -1.912 | -0.981 |        |        | 1.64  | 8 | 6.36  |
| HT20, M0 to M7                | 3 | 14 | 3 | 98.76 | -3.006 | -0.983 | -7.427 |        | 1.75  | 8 | 6.25  |
| HT20, M8 to M15               | 3 | 14 | 3 | 98.76 | -3.006 | -0.983 | -7.427 |        | 1.75  | 8 | 6.25  |
| HT20, M16 to M23              | 3 | 14 | 3 | 98.76 | -3.006 | -0.983 | -7.427 |        | 1.75  | 8 | 6.25  |
| HT20, M0 to M7                | 4 | 14 | 3 | 98.76 | -3.006 | -0.983 | -7.427 | -4.805 | 2.63  | 8 | 5.37  |
| HT20, M8 to M15               | 4 | 14 | 3 | 98.76 | -3.006 | -0.983 | -7.427 | -4.805 | 2.63  | 8 | 5.37  |
| HT20, M16 to M23              | 4 | 14 | 3 | 98.76 | -3.006 | -0.983 | -7.427 | -4.805 | 2.63  | 8 | 5.37  |
| HT20, M24 to M31              | 4 | 14 | 3 | 98.76 | -3.006 | -0.983 | -7.427 | -4.805 | 2.63  | 8 | 5.37  |
| HT20 Beam Forming, M0 to M7   | 2 | 14 | 6 | 98.76 | -3.006 | -0.983 |        |        | 1.19  | 8 | 6.81  |
| HT20 Beam Forming, M8 to M15  | 2 | 15 | 3 | 98.76 | -1.912 | -0.981 |        |        | 3.56  | 8 | 4.44  |
| HT20 Beam Forming, M0 to M7   | 3 | 13 | 8 | 98.76 | -3.815 | -1.804 | -7.148 |        | 2.91  | 8 | 5.09  |
| HT20 Beam Forming, M8 to M15  | 3 | 14 | 5 | 98.76 | -3.006 | -0.983 | -7.427 |        | 3.63  | 8 | 4.37  |
| HT20 Beam Forming, M16 to M23 | 3 | 14 | 3 | 98.76 | -3.006 | -0.983 | -7.427 |        | 3.63  | 8 | 4.37  |
| HT20 Beam Forming, M0 to M7   | 4 | 12 | 9 | 98.76 | -5.559 | -3.002 | -8.904 | -7.202 | 1.54  | 8 | 6.46  |
| HT20 Beam Forming, M8 to M15  | 4 | 13 | 6 | 98.76 | -3.815 | -1.804 | -7.148 | -5.281 | 0.66  | 8 | 7.34  |
| HT20 Beam Forming, M16 to M23 | 4 | 14 | 4 | 98.76 | -3.006 | -0.983 | -7.427 | -4.805 | 1.22  | 8 | 6.78  |
| HT20 Beam Forming, M24 to M31 | 4 | 14 | 3 | 98.76 | -3.006 | -0.983 | -7.427 | -4.805 | 2.63  | 8 | 5.37  |
| HT20 STBC, M0 to M7           | 2 | 15 | 3 | 98.76 | -1.912 | -0.981 |        |        | 1.64  | 8 | 6.36  |
| HT20 STBC, M0 to M7           | 3 | 14 | 3 | 98.76 | -3.006 | -0.983 | -7.427 |        | 1.75  | 8 | 6.25  |
| HT20 STBC, M0 to M7           | 4 | 14 | 3 | 98.76 | -3.006 | -0.983 | -7.427 | -4.805 | 2.63  | 8 | 5.37  |
| HE20, M0 to M7                | 1 | 15 | 3 | 98.28 | -2.204 |        |        |        | -2.13 | 8 | 10.13 |
| HE20, M0 to M7                | 2 | 15 | 3 | 98.28 | -2.204 | -0.843 |        |        | 1.62  | 8 | 6.38  |
| HE20, M8 to M15               | 2 | 15 | 3 | 98.28 | -2.204 | -0.843 |        |        | 1.62  | 8 | 6.38  |
| HE20, M0 to M7                | 3 | 14 | 3 | 98.28 | -2.843 | -1.131 | -7.245 |        | 1.77  | 8 | 6.23  |
| HE20, M8 to M15               | 3 | 14 | 3 | 98.28 | -2.843 | -1.131 | -7.245 |        | 1.77  | 8 | 6.23  |
| HE20, M16 to M23              | 3 | 14 | 3 | 98.28 | -2.843 | -1.131 | -7.245 |        | 1.77  | 8 | 6.23  |
| HE20, M0 to M7                | 4 | 14 | 3 | 98.28 | -2.843 | -1.131 | -7.245 | -5.073 | 2.6   | 8 | 5.4   |
| HE20, M8 to M15               | 4 | 14 | 3 | 98.28 | -2.843 | -1.131 | -7.245 | -5.073 | 2.6   | 8 | 5.4   |
| HE20, M16 to M23              | 4 | 14 | 3 | 98.28 | -2.843 | -1.131 | -7.245 | -5.073 | 2.6   | 8 | 5.4   |
| HE20, M24 to M31              | 4 | 14 | 3 | 98.28 | -2.843 | -1.131 | -7.245 | -5.073 | 2.6   | 8 | 5.4   |
| HE20 Beam Forming, M0 to M7   | 2 | 14 | 6 | 98.28 | -2.843 | -1.131 |        |        | 1.18  | 8 | 6.82  |
| HE20 Beam Forming, M8 to M15  | 2 | 15 | 3 | 98.28 | -2.204 | -0.843 |        |        | 1.62  | 8 | 6.38  |
| HE20 Beam Forming, M0 to M7   | 3 | 13 | 8 | 98.28 | -4.126 | -2.227 | -7.713 |        | 0.7   | 8 | 7.3   |
| HE20 Beam Forming, M8 to M15  | 3 | 14 | 5 | 98.28 | -2.843 | -1.131 | -7.245 |        | 1.77  | 8 | 6.23  |
| HE20 Beam Forming, M16 to M23 | 3 | 14 | 3 | 98.28 | -2.843 | -1.131 | -7.245 |        | 1.77  | 8 | 6.23  |
| HE20 Beam Forming, M0 to M7   | 4 | 12 | 9 | 98.28 | -5.367 | -3.727 | -8.959 | -7.088 | 0.23  | 8 | 7.77  |
| HE20 Beam Forming, M8 to M15  | 4 | 13 | 6 | 98.28 | -4.126 | -2.227 | -7.713 | -5.944 | 2.51  | 8 | 5.49  |
| HE20 Beam Forming, M16 to M23 | 4 | 14 | 4 | 98.28 | -2.843 | -1.131 | -7.245 | -5.073 | 3.6   | 8 | 4.4   |
| HE20 Beam Forming, M24 to M31 | 4 | 14 | 3 | 98.28 | -2.843 | -1.131 | -7.245 | -5.073 | 3.6   | 8 | 4.4   |
| HE20 STBC, M0 to M7           | 2 | 15 | 3 | 98.28 | -2.204 | -0.843 |        |        | 3.6   | 8 | 4.4   |
| HE20 STBC, M0 to M7           | 3 | 14 | 3 | 98.28 | -2.843 | -1.131 | -7.245 |        | 3.6   | 8 | 4.4   |
| HE20 STBC, M0 to M7           | 4 | 14 | 3 | 98.28 | -2.843 | -1.131 | -7.245 | -5.073 | 3.6   | 8 | 4.4   |