

## ISED CDD/SDM Conducted Output Power Measurements (RU26)

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |                             |                    |                          |                      |
| 5180                   | 36         |         | SDM  | AVG      | 26      | 0        | 270/286.8 (MCS11) | 2.06                   | 2.50       | 5.30   | -                           | -                           | 3.81                        | 9.11               | 22.76                    | -13.65               |
|                        |            |         | SDM  | AVG      | 26      | 4        | 270/286.8 (MCS11) | 2.04                   | 2.38       | 5.22   | -                           | -                           | 3.81                        | 9.03               | 22.76                    | -13.73               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 270/286.8 (MCS11) | 1.57                   | 2.00       | 4.80   | -                           | -                           | 3.81                        | 8.61               | 22.76                    | -14.15               |
| 5200                   | 40         |         | SDM  | AVG      | 26      | 0        | 270/286.8 (MCS11) | 1.54                   | 1.98       | 4.78   | -                           | -                           | 3.81                        | 8.59               | 22.76                    | -14.17               |
|                        |            |         | SDM  | AVG      | 26      | 4        | 270/286.8 (MCS11) | 2.19                   | 2.49       | 5.35   | -                           | -                           | 3.81                        | 9.16               | 22.76                    | -13.60               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 270/286.8 (MCS11) | 1.52                   | 1.78       | 4.66   | -                           | -                           | 3.81                        | 8.47               | 22.76                    | -14.29               |
| 5240                   | 48         |         | SDM  | AVG      | 26      | 0        | 270/286.8 (MCS11) | 1.51                   | 1.67       | 4.60   | -                           | -                           | 3.81                        | 8.41               | 22.76                    | -14.35               |
|                        |            |         | SDM  | AVG      | 26      | 4        | 270/286.8 (MCS11) | 2.03                   | 2.15       | 5.10   | -                           | -                           | 3.81                        | 8.91               | 22.76                    | -13.85               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 270/286.8 (MCS11) | 1.99                   | 2.12       | 5.07   | -                           | -                           | 3.81                        | 8.88               | 22.76                    | -13.88               |
| 5260                   | 52         |         | SDM  | AVG      | 26      | 0        | 270/286.8 (MCS11) | 8.95                   | 8.69       | 11.83  | 23.73                       | -11.90                      | 3.34                        | 15.17              | 29.73                    | -14.57               |
|                        |            |         | SDM  | AVG      | 26      | 4        | 270/286.8 (MCS11) | 8.80                   | 8.94       | 11.88  | 23.73                       | -11.85                      | 3.34                        | 15.22              | 29.73                    | -14.52               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 270/286.8 (MCS11) | 8.69                   | 8.68       | 11.70  | 23.73                       | -12.03                      | 3.34                        | 15.04              | 29.73                    | -14.70               |
| 5300                   | 60         |         | SDM  | AVG      | 26      | 0        | 270/286.8 (MCS11) | 8.60                   | 8.73       | 11.68  | 23.73                       | -12.05                      | 3.34                        | 15.02              | 29.73                    | -14.72               |
|                        |            |         | SDM  | AVG      | 26      | 4        | 270/286.8 (MCS11) | 8.83                   | 8.98       | 11.92  | 23.73                       | -11.81                      | 3.34                        | 15.26              | 29.73                    | -14.48               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 270/286.8 (MCS11) | 8.72                   | 8.80       | 11.77  | 23.73                       | -11.96                      | 3.34                        | 15.11              | 29.73                    | -14.63               |
| 5320                   | 64         |         | SDM  | AVG      | 26      | 0        | 270/286.8 (MCS11) | 8.54                   | 8.69       | 11.63  | 23.73                       | -12.10                      | 3.34                        | 14.97              | 29.73                    | -14.77               |
|                        |            |         | SDM  | AVG      | 26      | 4        | 270/286.8 (MCS11) | 8.94                   | 8.93       | 11.95  | 23.73                       | -11.78                      | 3.34                        | 15.29              | 29.73                    | -14.45               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 270/286.8 (MCS11) | 8.56                   | 8.61       | 11.60  | 23.73                       | -12.13                      | 3.34                        | 14.94              | 29.73                    | -14.80               |
| 5500                   | 100        |         | SDM  | AVG      | 26      | 0        | 270/286.8 (MCS11) | 8.88                   | 8.64       | 11.77  | 23.65                       | -11.88                      | 3.09                        | 14.86              | 29.65                    | -14.79               |
|                        |            |         | SDM  | AVG      | 26      | 4        | 270/286.8 (MCS11) | 8.80                   | 8.94       | 11.88  | 23.65                       | -11.77                      | 3.09                        | 14.97              | 29.65                    | -14.68               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 270/286.8 (MCS11) | 8.79                   | 8.85       | 11.83  | 23.65                       | -11.82                      | 3.09                        | 14.92              | 29.65                    | -14.73               |
| 5580                   | 116        |         | SDM  | AVG      | 26      | 0        | 270/286.8 (MCS11) | 8.94                   | 8.87       | 11.92  | 23.65                       | -11.73                      | 3.09                        | 15.01              | 29.65                    | -14.64               |
|                        |            |         | SDM  | AVG      | 26      | 4        | 270/286.8 (MCS11) | 8.82                   | 8.84       | 11.84  | 23.65                       | -11.81                      | 3.09                        | 14.93              | 29.65                    | -14.72               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 270/286.8 (MCS11) | 8.55                   | 8.78       | 11.68  | 23.65                       | -11.97                      | 3.09                        | 14.77              | 29.65                    | -14.88               |
| 5700                   | 140        |         | SDM  | AVG      | 26      | 0        | 270/286.8 (MCS11) | 8.62                   | 8.78       | 11.71  | 23.65                       | -11.94                      | 3.09                        | 14.80              | 29.65                    | -14.85               |
|                        |            |         | SDM  | AVG      | 26      | 4        | 270/286.8 (MCS11) | 8.84                   | 8.77       | 11.82  | 23.65                       | -11.83                      | 3.09                        | 14.91              | 29.65                    | -14.74               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 270/286.8 (MCS11) | 8.75                   | 8.79       | 11.78  | 23.65                       | -11.87                      | 3.09                        | 14.87              | 29.65                    | -14.78               |
| 5720                   | 144        |         | SDM  | AVG      | 26      | 0        | 270/286.8 (MCS11) | 8.83                   | 8.55       | 11.70  | 23.65                       | -11.95                      | 3.09                        | 14.79              | 29.65                    | -14.86               |
|                        |            |         | SDM  | AVG      | 26      | 4        | 270/286.8 (MCS11) | 8.92                   | 8.76       | 11.85  | 23.65                       | -11.80                      | 3.09                        | 14.94              | 29.65                    | -14.71               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 270/286.8 (MCS11) | 8.89                   | 8.78       | 11.85  | 23.65                       | -11.80                      | 3.09                        | 14.94              | 29.65                    | -14.71               |
| 5745                   | 149        |         | CDD  | AVG      | 26      | 0        | 270/286.8 (MCS11) | 19.21                  | 19.09      | 22.16  | 28.78                       | -6.62                       | 7.22                        | 29.38              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 26      | 4        | 270/286.8 (MCS11) | 19.46                  | 19.47      | 22.48  | 28.78                       | -6.30                       | 7.22                        | 29.70              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 26      | 8        | 270/286.8 (MCS11) | 19.33                  | 19.36      | 22.36  | 28.78                       | -6.42                       | 7.22                        | 29.58              | -                        | -                    |
| 5785                   | 157        |         | CDD  | AVG      | 26      | 0        | 270/286.8 (MCS11) | 19.38                  | 19.14      | 22.27  | 28.78                       | -6.51                       | 7.22                        | 29.49              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 26      | 4        | 270/286.8 (MCS11) | 19.40                  | 19.37      | 22.40  | 28.78                       | -6.38                       | 7.22                        | 29.62              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 26      | 8        | 270/286.8 (MCS11) | 19.42                  | 19.28      | 22.36  | 28.78                       | -6.42                       | 7.22                        | 29.58              | -                        | -                    |
| 5825                   | 165        |         | CDD  | AVG      | 26      | 0        | 270/286.8 (MCS11) | 19.10                  | 19.17      | 22.15  | 28.78                       | -6.63                       | 7.22                        | 29.37              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 26      | 4        | 270/286.8 (MCS11) | 19.48                  | 19.23      | 22.37  | 28.78                       | -6.41                       | 7.22                        | 29.59              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 26      | 8        | 270/286.8 (MCS11) | 19.33                  | 19.09      | 22.22  | 28.78                       | -6.56                       | 7.22                        | 29.44              | -                        | -                    |

Table 7-49. ISED CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |                             |                    |                          |                      |
| 5190                   | 38         |         | SDM  | AVG      | 26      | 0        | 542/573.6 (MCS11) | 2.44                   | 2.48       | 5.47   | -                           | -                           | 3.81                        | 9.28               | 22.76                    | -13.48               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 542/573.6 (MCS11) | 2.41                   | 2.50       | 5.47   | -                           | -                           | 3.81                        | 9.28               | 22.76                    | -13.48               |
|                        |            |         | SDM  | AVG      | 26      | 17       | 542/573.6 (MCS11) | 1.99                   | 2.36       | 5.19   | -                           | -                           | 3.81                        | 9.00               | 22.76                    | -13.76               |
| 5230                   | 46         |         | SDM  | AVG      | 26      | 0        | 542/573.6 (MCS11) | 2.12                   | 2.44       | 5.29   | -                           | -                           | 3.81                        | 9.10               | 22.76                    | -13.66               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 542/573.6 (MCS11) | 2.25                   | 2.49       | 5.38   | -                           | -                           | 3.81                        | 9.19               | 22.76                    | -13.57               |
|                        |            |         | SDM  | AVG      | 26      | 17       | 542/573.6 (MCS11) | 2.19                   | 2.50       | 5.36   | -                           | -                           | 3.81                        | 9.17               | 22.76                    | -13.59               |
| 5270                   | 54         |         | SDM  | AVG      | 26      | 0        | 542/573.6 (MCS11) | 8.97                   | 8.90       | 11.95  | 23.73                       | -11.78                      | 3.34                        | 15.29              | 29.73                    | -14.45               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 542/573.6 (MCS11) | 8.74                   | 8.82       | 11.79  | 23.73                       | -11.94                      | 3.34                        | 15.13              | 29.73                    | -14.61               |
|                        |            |         | SDM  | AVG      | 26      | 17       | 542/573.6 (MCS11) | 8.80                   | 8.87       | 11.85  | 23.73                       | -11.88                      | 3.34                        | 15.19              | 29.73                    | -14.55               |
| 5310                   | 62         |         | SDM  | AVG      | 26      | 0        | 542/573.6 (MCS11) | 8.70                   | 8.81       | 11.77  | 23.73                       | -11.96                      | 3.34                        | 15.11              | 29.73                    | -14.63               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 542/573.6 (MCS11) | 8.71                   | 8.73       | 11.73  | 23.73                       | -12.00                      | 3.34                        | 15.07              | 29.73                    | -14.67               |
|                        |            |         | SDM  | AVG      | 26      | 17       | 542/573.6 (MCS11) | 8.90                   | 8.82       | 11.87  | 23.73                       | -11.86                      | 3.34                        | 15.21              | 29.73                    | -14.53               |
| 5510                   | 102        |         | SDM  | AVG      | 26      | 0        | 542/573.6 (MCS11) | 8.74                   | 8.79       | 11.78  | 23.65                       | -11.87                      | 3.09                        | 14.87              | 29.65                    | -14.78               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 542/573.6 (MCS11) | 8.86                   | 8.96       | 11.92  | 23.65                       | -11.73                      | 3.09                        | 15.01              | 29.65                    | -14.64               |
|                        |            |         | SDM  | AVG      | 26      | 17       | 542/573.6 (MCS11) | 8.79                   | 8.72       | 11.77  | 23.65                       | -11.88                      | 3.09                        | 14.86              | 29.65                    | -14.79               |
| 5550                   | 110        |         | SDM  | AVG      | 26      | 0        | 542/573.6 (MCS11) | 8.91                   | 8.73       | 11.83  | 23.65                       | -11.82                      | 3.09                        | 14.92              | 29.65                    | -14.73               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 542/573.6 (MCS11) | 8.88                   | 8.71       | 11.81  | 23.65                       | -11.84                      | 3.09                        | 14.90              | 29.65                    | -14.75               |
|                        |            |         | SDM  | AVG      | 26      | 17       | 542/573.6 (MCS11) | 8.82                   | 8.80       | 11.82  | 23.65                       | -11.83                      | 3.09                        | 14.91              | 29.65                    | -14.74               |
| 5670                   | 134        |         | SDM  | AVG      | 26      | 0        | 542/573.6 (MCS11) | 8.73                   | 8.91       | 11.83  | 23.65                       | -11.82                      | 3.09                        | 14.92              | 29.65                    | -14.73               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 542/573.6 (MCS11) | 8.70                   | 8.93       | 11.83  | 23.65                       | -11.82                      | 3.09                        | 14.92              | 29.65                    | -14.73               |
|                        |            |         | SDM  | AVG      | 26      | 17       | 542/573.6 (MCS11) | 8.89                   | 8.80       | 11.86  | 23.65                       | -11.79                      | 3.09                        | 14.95              | 29.65                    | -14.70               |
| 5710                   | 142        |         | SDM  | AVG      | 26      | 0        | 542/573.6 (MCS11) | 8.77                   | 8.82       | 11.81  | 23.65                       | -11.84                      | 3.09                        | 14.90              | 29.65                    | -14.75               |
|                        |            |         | SDM  | AVG      | 26      | 8        | 542/573.6 (MCS11) | 8.70                   | 8.95       | 11.84  | 23.65                       | -11.81                      | 3.09                        | 14.93              | 29.65                    | -14.72               |
|                        |            |         | SDM  | AVG      | 26      | 17       | 542/573.6 (MCS11) | 8.74                   | 8.96       | 11.86  | 23.65                       | -11.79                      | 3.09                        | 14.95              | 29.65                    | -14.70               |
| 5755                   | 151        |         | CDD  | AVG      | 26      | 0        | 542/573.6 (MCS11) | 19.38                  | 19.41      | 22.41  | 28.78                       | -6.37                       | 7.22                        | 29.63              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 26      | 8        | 542/573.6 (MCS11) | 19.30                  | 19.23      | 22.28  | 28.78                       | -6.50                       | 7.22                        | 29.50              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 26      | 17       | 542/573.6 (MCS11) | 19.33                  | 19.45      | 22.40  | 28.78                       | -6.38                       | 7.22                        | 29.62              | -                        | -                    |
| 5795                   | 159        |         | CDD  | AVG      | 26      | 0        | 542/573.6 (MCS11) | 19.21                  | 19.26      | 22.25  | 28.78                       | -6.53                       | 7.22                        | 29.47              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 26      | 8        | 542/573.6 (MCS11) | 19.20                  | 19.21      | 22.22  | 28.78                       | -6.56                       | 7.22                        | 29.44              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 26      | 17       | 542/573.6 (MCS11) | 19.30                  | 19.20      | 22.26  | 28.78                       | -6.52                       | 7.22                        | 29.48              | -                        | -                    |

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |                             |                    |                          |                      |
| 5GHz (80MHz Bandwidth) | 5210       | 42      | SDM  | AVG      | 26      | 0        | 1134/1201 (MCS11) | 2.35                   | 2.49       | 5.43   | -                           | -                           | 3.81                        | 9.24               | 22.76                    | -13.52               |
|                        |            |         | SDM  | AVG      | 26      | 18       | 1134/1201 (MCS11) | 2.39                   | 2.50       | 5.46   | -                           | -                           | 3.81                        | 9.27               | 22.76                    | -13.49               |
|                        |            |         | SDM  | AVG      | 26      | 36       | 1134/1201 (MCS11) | 2.46                   | 2.37       | 5.43   | -                           | -                           | 3.81                        | 9.24               | 22.76                    | -13.52               |
|                        | 5290       | 58      | SDM  | AVG      | 26      | 0        | 1134/1201 (MCS11) | 8.79                   | 8.71       | 11.76  | 23.73                       | -11.97                      | 3.34                        | 15.10              | 29.73                    | -14.64               |
|                        |            |         | SDM  | AVG      | 26      | 18       | 1134/1201 (MCS11) | 8.70                   | 8.70       | 11.71  | 23.73                       | -12.02                      | 3.34                        | 15.05              | 29.73                    | -14.69               |
|                        |            |         | SDM  | AVG      | 26      | 36       | 1134/1201 (MCS11) | 8.71                   | 8.80       | 11.77  | 23.73                       | -11.96                      | 3.34                        | 15.11              | 29.73                    | -14.63               |
|                        | 5530       | 106     | SDM  | AVG      | 26      | 0        | 1134/1201 (MCS11) | 8.79                   | 8.81       | 11.81  | 23.65                       | -11.84                      | 3.09                        | 14.90              | 29.65                    | -14.75               |
|                        |            |         | SDM  | AVG      | 26      | 18       | 1134/1201 (MCS11) | 8.74                   | 8.79       | 11.78  | 23.65                       | -11.87                      | 3.09                        | 14.87              | 29.65                    | -14.78               |
|                        |            |         | SDM  | AVG      | 26      | 36       | 1134/1201 (MCS11) | 8.73                   | 8.70       | 11.73  | 23.65                       | -11.92                      | 3.09                        | 14.82              | 29.65                    | -14.83               |
|                        | 5690       | 138     | SDM  | AVG      | 26      | 0        | 1134/1201 (MCS11) | 8.81                   | 8.89       | 11.86  | 23.65                       | -11.79                      | 3.09                        | 14.95              | 29.65                    | -14.70               |
|                        |            |         | SDM  | AVG      | 26      | 18       | 1134/1201 (MCS11) | 8.71                   | 8.70       | 11.72  | 23.65                       | -11.93                      | 3.09                        | 14.81              | 29.65                    | -14.84               |
|                        |            |         | SDM  | AVG      | 26      | 36       | 1134/1201 (MCS11) | 8.77                   | 8.84       | 11.82  | 23.65                       | -11.83                      | 3.09                        | 14.91              | 29.65                    | -14.74               |
|                        | 5775       | 155     | CDD  | AVG      | 26      | 0        | 1134/1201 (MCS11) | 14.81                  | 14.75      | 17.79  | 28.78                       | -10.99                      | 7.22                        | 25.01              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 26      | 18       | 1134/1201 (MCS11) | 14.77                  | 14.81      | 17.80  | 28.78                       | -10.98                      | 7.22                        | 25.02              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 26      | 36       | 1134/1201 (MCS11) | 14.90                  | 14.78      | 17.85  | 28.78                       | -10.93                      | 7.22                        | 25.07              | -                        | -                    |

**Table 7-51. ISED CDD/SDM 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (RU26)**

|                                                   |                                                                                                                                                                                                              |                                               |                                        |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301                |  <b>PCTEST</b><br>Proud to be part of  | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C2101020002-16-R1.BCG | <b>Test Dates:</b><br>12/12/2020 - 3/10/2021                                                                                                                                                                 | <b>EUT Type:</b><br>Tablet Device             | Page 66 of 257                         |

### FCC CDD/SDM Conducted Output Power Measurements (Highest Power Among Partially-Loaded RU's)

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |
|                        | 5180       | 36      | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.44                  | 14.41      | 17.44  | 23.98                       | -6.54                       |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.45                  | 14.25      | 17.36  | 23.98                       | -6.62                       |
|                        | 5200       | 40      | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.95                  | 14.81      | 17.89  | 23.98                       | -6.09                       |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.94                  | 14.86      | 17.91  | 23.98                       | -6.07                       |
|                        | 5240       | 48      | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.95                  | 14.88      | 17.93  | 23.98                       | -6.05                       |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.94                  | 14.87      | 17.92  | 23.98                       | -6.06                       |
|                        | 5260       | 52      | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.76                  | 14.77      | 17.78  | 23.73                       | -5.95                       |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.73                  | 14.75      | 17.75  | 23.73                       | -5.98                       |
|                        | 5300       | 60      | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.72                  | 14.79      | 17.77  | 23.73                       | -5.96                       |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.71                  | 15.00      | 17.87  | 23.73                       | -5.86                       |
|                        | 5320       | 64      | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.98                  | 14.69      | 17.85  | 23.73                       | -5.88                       |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.94                  | 14.97      | 17.97  | 23.73                       | -5.76                       |
|                        | 5500       | 100     | CDD  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 13.37                  | 13.32      | 16.36  | 23.65                       | -7.29                       |
|                        |            |         | CDD  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 13.41                  | 13.23      | 16.33  | 23.65                       | -7.32                       |
|                        | 5520       | 104     | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.79                  | 14.90      | 17.86  | 23.65                       | -5.79                       |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.94                  | 14.87      | 17.92  | 23.65                       | -5.73                       |
|                        | 5580       | 116     | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.59                  | 14.97      | 17.79  | 23.65                       | -5.86                       |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.83                  | 14.97      | 17.91  | 23.65                       | -5.74                       |
|                        | 5680       | 136     | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.80                  | 14.68      | 17.75  | 23.65                       | -5.90                       |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.71                  | 14.87      | 17.80  | 23.65                       | -5.85                       |
|                        | 5700       | 140     | CDD  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 12.85                  | 12.71      | 15.79  | 23.65                       | -7.86                       |
|                        |            |         | CDD  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 12.86                  | 12.93      | 15.91  | 23.65                       | -7.74                       |
|                        | 5720       | 144     | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.84                  | 14.73      | 17.80  | 23.65                       | -5.85                       |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.89                  | 14.97      | 17.94  | 23.65                       | -5.71                       |
|                        | 5745       | 149     | CDD  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 19.08                  | 19.28      | 22.19  | 28.78                       | -6.59                       |
|                        |            |         | CDD  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 19.49                  | 19.35      | 22.43  | 28.78                       | -6.35                       |
|                        | 5785       | 157     | CDD  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 19.01                  | 19.34      | 22.19  | 28.78                       | -6.59                       |
|                        |            |         | CDD  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 19.27                  | 19.28      | 22.29  | 28.78                       | -6.49                       |
|                        | 5825       | 165     | CDD  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 19.22                  | 19.28      | 22.26  | 28.78                       | -6.52                       |
|                        |            |         | CDD  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 19.19                  | 19.28      | 22.25  | 28.78                       | -6.53                       |

Table 7-52. FCC CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |
|                        | 5190       | 38      | CDD  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 11.32                  | 11.39      | 14.37  | 23.43                       | -9.06                       |
|                        |            |         | CDD  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 11.51                  | 11.63      | 14.58  | 23.43                       | -8.85                       |
|                        | 5230       | 46      | SDM  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 16.41                  | 16.71      | 19.57  | 23.98                       | -4.41                       |
|                        |            |         | SDM  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 16.88                  | 16.90      | 19.90  | 23.98                       | -4.08                       |
|                        | 5270       | 54      | SDM  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 16.64                  | 16.63      | 19.65  | 23.73                       | -4.08                       |
|                        |            |         | SDM  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 16.80                  | 16.88      | 19.85  | 23.73                       | -3.88                       |
|                        | 5310       | 62      | CDD  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 12.54                  | 12.48      | 15.52  | 23.73                       | -8.21                       |
|                        |            |         | CDD  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 12.70                  | 12.92      | 15.82  | 23.73                       | -7.91                       |
|                        | 5510       | 102     | CDD  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 10.23                  | 10.09      | 13.17  | 23.65                       | -10.48                      |
|                        |            |         | CDD  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 10.38                  | 10.27      | 13.34  | 23.65                       | -10.31                      |
|                        | 5550       | 110     | SDM  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 16.65                  | 16.78      | 19.73  | 23.65                       | -3.92                       |
|                        |            |         | SDM  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 16.85                  | 16.96      | 19.92  | 23.65                       | -3.73                       |
|                        | 5630       | 126     | CDD  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 16.68                  | 16.77      | 19.74  | 23.65                       | -3.91                       |
|                        |            |         | CDD  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 16.86                  | 16.92      | 19.90  | 23.65                       | -3.75                       |
|                        | 5670       | 134     | CDD  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 14.00                  | 14.02      | 17.02  | 23.65                       | -6.63                       |
|                        |            |         | CDD  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 14.30                  | 14.29      | 17.31  | 23.65                       | -6.34                       |
|                        | 5710       | 142     | SDM  | AVG      | 106     | 53       | 542/573.6 (MCS11) | 14.50                  | 14.13      | 17.33  | 23.65                       | -6.32                       |
|                        |            |         | SDM  | AVG      | 106     | 54       | 542/573.6 (MCS11) | 14.96                  | 14.97      | 17.98  | 23.65                       | -5.67                       |
|                        | 5755       | 151     | CDD  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 19.22                  | 19.05      | 22.15  | 28.78                       | -6.63                       |
|                        |            |         | CDD  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 19.42                  | 19.27      | 22.36  | 28.78                       | -6.42                       |
|                        | 5795       | 159     | CDD  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 19.42                  | 19.15      | 22.30  | 28.78                       | -6.48                       |
|                        |            |         | CDD  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 19.39                  | 19.32      | 22.37  | 28.78                       | -6.41                       |

Table 7-53. FCC CDD/SDM 40MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

|                                            |                                                                                                                                         |                            |                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         |  <b>MEASUREMENT REPORT</b><br><b>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021                                                                                                   | EUT Type:<br>Tablet Device | Page 67 of 257                  |

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |
|                        | 5210       | 42      | CDD  | AVG      | 484     | 65       | 1134/1201 (MCS11) | 10.37                  | 10.44      | 13.42  | 23.43                       | -10.01                      |
|                        |            |         | CDD  | AVG      | 484     | 66       | 1134/1201 (MCS11) | 10.89                  | 10.90      | 13.91  | 23.43                       | -9.52                       |
|                        | 5290       | 58      | CDD  | AVG      | 484     | 65       | 1134/1201 (MCS11) | 11.70                  | 11.57      | 14.65  | 23.73                       | -9.08                       |
|                        |            |         | CDD  | AVG      | 484     | 66       | 1134/1201 (MCS11) | 11.89                  | 12.00      | 14.96  | 23.73                       | -8.77                       |
|                        | 5530       | 106     | CDD  | AVG      | 242     | 61       | 1134/1201 (MCS11) | 11.68                  | 11.80      | 14.75  | 23.65                       | -8.90                       |
|                        |            |         | CDD  | AVG      | 242     | 62       | 1134/1201 (MCS11) | 11.93                  | 11.92      | 14.94  | 23.65                       | -8.71                       |
|                        |            |         | CDD  | AVG      | 242     | 64       | 1134/1201 (MCS11) | 11.86                  | 11.89      | 14.89  | 23.65                       | -8.76                       |
|                        | 5610       | 122     | CDD  | AVG      | 484     | 65       | 1134/1201 (MCS11) | 16.23                  | 16.19      | 19.22  | 23.65                       | -4.43                       |
|                        |            |         | CDD  | AVG      | 484     | 66       | 1134/1201 (MCS11) | 16.50                  | 16.30      | 19.41  | 23.65                       | -4.24                       |
|                        | 5690       | 138     | SDM  | AVG      | 106     | 53       | 1134/1201 (MCS11) | 14.57                  | 14.33      | 17.46  | 23.65                       | -6.19                       |
|                        |            |         | SDM  | AVG      | 106     | 56       | 1134/1201 (MCS11) | 14.84                  | 14.93      | 17.90  | 23.65                       | -5.75                       |
|                        |            |         | SDM  | AVG      | 106     | 60       | 1134/1201 (MCS11) | 14.67                  | 15.00      | 17.85  | 23.65                       | -5.80                       |
|                        | 5775       | 155     | CDD  | AVG      | 484     | 65       | 1134/1201 (MCS11) | 14.94                  | 14.76      | 17.86  | 28.78                       | -10.92                      |
|                        |            |         | CDD  | AVG      | 484     | 66       | 1134/1201 (MCS11) | 15.00                  | 14.98      | 18.00  | 28.78                       | -10.78                      |

Table 7-54. FCC CDD/SDM 80MHz BW (UNII) Maximum Conducted Output Power (Highest Power Among Partially-Loaded RU's)

|                                            |                                                                                                                                         |                            |                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         |  <b>MEASUREMENT REPORT</b><br><b>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021                                                                                                   | EUT Type:<br>Tablet Device | Page 68 of 257                  |

## ISED CDD/SDM Conducted Output Power Measurements (Highest Power Among Partially-Loaded RU's)

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |                             |                    |                          |                      |
|                        |            |         |      |          |         |          |                   |                        |            |        |                             |                             |                             |                    |                          |                      |
| 5180                   | 36         |         | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 8.42                   | 8.50       | 11.47  | -                           | -                           | 3.81                        | 15.28              | 22.76                    | -7.48                |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 8.44                   | 8.38       | 11.42  | -                           | -                           | 3.81                        | 15.23              | 22.76                    | -7.53                |
| 5200                   | 40         |         | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 8.50                   | 8.42       | 11.47  | -                           | -                           | 3.81                        | 15.28              | 22.76                    | -7.48                |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 8.50                   | 8.33       | 11.43  | -                           | -                           | 3.81                        | 15.24              | 22.76                    | -7.52                |
| 5240                   | 48         |         | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 8.30                   | 8.27       | 11.30  | -                           | -                           | 3.81                        | 15.11              | 22.76                    | -7.65                |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 8.32                   | 8.31       | 11.33  | -                           | -                           | 3.81                        | 15.14              | 22.76                    | -7.62                |
| 5260                   | 52         |         | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.76                  | 14.77      | 17.78  | 23.73                       | -5.95                       | 3.34                        | 21.12              | 29.73                    | -8.62                |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.73                  | 14.75      | 17.75  | 23.73                       | -5.98                       | 3.34                        | 21.09              | 29.73                    | -8.65                |
| 5300                   | 60         |         | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.72                  | 14.79      | 17.77  | 23.73                       | -5.96                       | 3.34                        | 21.11              | 29.73                    | -8.63                |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.71                  | 15.00      | 17.77  | 23.73                       | -5.86                       | 3.34                        | 21.21              | 29.73                    | -8.53                |
| 5320                   | 64         |         | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.98                  | 14.69      | 17.85  | 23.73                       | -5.88                       | 3.34                        | 21.19              | 29.73                    | -8.55                |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.94                  | 14.97      | 17.97  | 23.73                       | -5.76                       | 3.34                        | 21.31              | 29.73                    | -8.43                |
| 5500                   | 100        |         | CDD  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 13.37                  | 13.32      | 16.36  | 23.65                       | -7.29                       | 6.01                        | 22.37              | 29.65                    | -7.28                |
|                        |            |         | CDD  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 13.41                  | 13.23      | 16.33  | 23.65                       | -7.32                       | 6.01                        | 22.34              | 29.65                    | -7.31                |
| 5520                   | 104        |         | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.79                  | 14.90      | 17.86  | 23.65                       | -5.79                       | 3.09                        | 20.95              | 29.65                    | -8.70                |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.94                  | 14.87      | 17.92  | 23.65                       | -5.73                       | 3.09                        | 21.01              | 29.65                    | -8.64                |
| 5580                   | 116        |         | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.59                  | 14.97      | 17.79  | 23.65                       | -5.86                       | 3.09                        | 20.88              | 29.65                    | -8.77                |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.83                  | 14.97      | 17.91  | 23.65                       | -5.74                       | 3.09                        | 21.00              | 29.65                    | -8.65                |
| 5680                   | 136        |         | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.80                  | 14.68      | 17.75  | 23.65                       | -5.90                       | 3.09                        | 20.84              | 29.65                    | -8.81                |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.71                  | 14.87      | 17.80  | 23.65                       | -5.85                       | 3.09                        | 20.89              | 29.65                    | -8.76                |
| 5700                   | 140        |         | CDD  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 12.85                  | 12.71      | 15.79  | 23.65                       | -7.86                       | 6.01                        | 21.80              | 29.65                    | -7.85                |
|                        |            |         | CDD  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 12.86                  | 12.93      | 15.91  | 23.65                       | -7.74                       | 6.01                        | 21.92              | 29.65                    | -7.73                |
| 5720                   | 144        |         | SDM  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 14.84                  | 14.73      | 17.80  | 23.65                       | -5.85                       | 3.09                        | 20.89              | 29.65                    | -8.76                |
|                        |            |         | SDM  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 14.89                  | 14.97      | 17.94  | 23.65                       | -5.71                       | 3.09                        | 21.03              | 29.65                    | -8.62                |
| 5745                   | 149        |         | CDD  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 19.08                  | 19.28      | 22.19  | 28.78                       | -6.59                       | 7.22                        | 29.41              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 19.49                  | 19.35      | 22.43  | 28.78                       | -6.35                       | 7.22                        | 29.65              | -                        | -                    |
| 5785                   | 157        |         | CDD  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 19.01                  | 19.34      | 22.19  | 28.78                       | -6.59                       | 7.22                        | 29.41              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 19.27                  | 19.28      | 22.29  | 28.78                       | -6.49                       | 7.22                        | 29.51              | -                        | -                    |
| 5825                   | 165        |         | CDD  | AVG      | 106     | 53       | 270/286.8 (MCS11) | 19.22                  | 19.28      | 22.26  | 28.78                       | -6.52                       | 7.22                        | 29.48              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 106     | 54       | 270/286.8 (MCS11) | 19.19                  | 19.28      | 22.25  | 28.78                       | -6.53                       | 7.22                        | 29.47              | -                        | -                    |

Table 7-55. ISED CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |                             |                    |                          |                      |
|                        |            |         |      |          |         |          |                   |                        |            |        |                             |                             |                             |                    |                          |                      |
| 5190                   | 38         |         | SDM  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 10.56                  | 10.87      | 13.73  | -                           | -                           | 3.81                        | 17.54              | 22.76                    | -5.22                |
|                        |            |         | SDM  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 10.98                  | 11.00      | 14.00  | -                           | -                           | 3.81                        | 17.81              | 22.76                    | -4.95                |
| 5230                   | 46         |         | SDM  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 10.73                  | 10.74      | 13.75  | -                           | -                           | 3.81                        | 17.56              | 22.76                    | -5.20                |
|                        |            |         | SDM  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 11.00                  | 11.00      | 14.01  | -                           | -                           | 3.81                        | 17.82              | 22.76                    | -4.94                |
| 5270                   | 54         |         | SDM  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 16.64                  | 16.63      | 19.65  | 23.73                       | -4.08                       | 3.34                        | 22.99              | 29.73                    | -6.75                |
|                        |            |         | SDM  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 16.80                  | 16.88      | 19.85  | 23.73                       | -3.88                       | 3.34                        | 23.19              | 29.73                    | -6.55                |
| 5310                   | 62         |         | CDD  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 12.54                  | 12.48      | 15.52  | 23.73                       | -8.21                       | 5.99                        | 21.51              | 29.73                    | -8.22                |
|                        |            |         | CDD  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 12.70                  | 12.92      | 15.82  | 23.73                       | -7.91                       | 5.99                        | 21.81              | 29.73                    | -7.92                |
| 5510                   | 102        |         | CDD  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 10.23                  | 10.09      | 13.17  | 23.65                       | -10.48                      | 6.01                        | 19.18              | 29.65                    | -10.47               |
|                        |            |         | CDD  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 10.38                  | 10.27      | 13.34  | 23.65                       | -10.31                      | 6.01                        | 19.35              | 29.65                    | -10.30               |
| 5550                   | 110        |         | SDM  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 16.65                  | 16.78      | 19.73  | 23.65                       | -3.92                       | 3.09                        | 22.82              | 29.65                    | -6.83                |
|                        |            |         | SDM  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 16.85                  | 16.96      | 19.92  | 23.65                       | -3.73                       | 3.09                        | 23.01              | 29.65                    | -6.64                |
| 5670                   | 134        |         | CDD  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 14.00                  | 14.02      | 17.02  | 23.65                       | -6.63                       | 6.01                        | 23.03              | 29.65                    | -6.62                |
|                        |            |         | CDD  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 14.30                  | 14.29      | 17.31  | 23.65                       | -6.34                       | 6.01                        | 23.32              | 29.65                    | -6.33                |
| 5710                   | 142        |         | SDM  | AVG      | 106     | 53       | 542/573.6 (MCS11) | 14.50                  | 14.13      | 17.33  | 23.65                       | -6.32                       | 3.09                        | 20.42              | 29.65                    | -9.23                |
|                        |            |         | SDM  | AVG      | 106     | 54       | 542/573.6 (MCS11) | 14.96                  | 14.97      | 17.98  | 23.65                       | -5.67                       | 3.09                        | 21.07              | 29.65                    | -8.58                |
| 5755                   | 151        |         | SDM  | AVG      | 106     | 56       | 542/573.6 (MCS11) | 14.60                  | 14.61      | 17.62  | 23.65                       | -6.03                       | 3.09                        | 20.71              | 29.65                    | -8.94                |
|                        |            |         | CDD  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 19.22                  | 19.05      | 22.15  | 28.78                       | -6.63                       | 7.22                        | 29.37              | -                        | -                    |
| 5795                   | 159        |         | CDD  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 19.42                  | 19.27      | 22.36  | 28.78                       | -6.42                       | 7.22                        | 29.58              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 242     | 61       | 542/573.6 (MCS11) | 19.42                  | 19.15      | 22.30  | 28.78                       | -6.48                       | 7.22                        | 29.52              | -                        | -                    |
|                        |            |         | CDD  | AVG      | 242     | 62       | 542/573.6 (MCS11) | 19.39                  | 19.32      | 22.37  | 28.78                       | -6.41                       | 7.22                        | 29.59              | -                        | -                    |

Table 7-56. ISED CDD/SDM 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Highest Power Among Partially-Loaded RU's)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index          | Data Rate [Mbps] | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|------|----------|---------|-------------------|------------------|------------------------|------------|--------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
|                        |            |         |      |          |         |                   |                  | Antenna 5b             | Antenna 4b | Summed |                             |                             |                             |                    |                          |                      |
|                        |            |         |      |          |         |                   |                  |                        |            |        |                             |                             |                             |                    |                          |                      |
| 5210                   | 42         | SDM     | AVG  | 484      | 65      | 1134/1201 (MCS11) | 10.37            | 10.44                  | 13.42      | -      | -                           | 3.81                        | 17.23                       | 22.76              | -5.53                    |                      |
|                        |            | SDM     | AVG  | 484      | 66      | 1134/1201 (MCS11) | 10.89            | 10.90                  | 13.91      | -      | -                           | 3.81                        | 17.72                       | 22.76              | -5.04                    |                      |
| 5290                   | 58         | CDD     | AVG  | 484      | 65      | 1134/1201 (MCS11) | 11.70            | 11.57                  | 14.65      | 23.73  | -9.08                       | 5.99                        | 20.64                       | 29.73              | -9.09                    |                      |
|                        |            | CDD     | AVG  | 484      | 66      | 1134/1201 (MCS11) | 11.89            | 12.00                  | 14.96      | 23.73  | -8.77                       | 5.99                        | 20.95                       | 29.73              | -8.78                    |                      |
| 5530                   | 106        | CDD     | AVG  | 242      | 61      | 1134/1201 (MCS11) | 11.68            | 11.80                  | 14.75      | 23.65  | -8.90                       | 6.01                        | 20.76                       | 29.65              | -8.89                    |                      |
|                        |            | CDD     | AVG  | 242      | 62      | 1134/1201 (MCS11) | 11.93            | 11.92                  | 14.94      | 23.65  | -8.71                       | 6.01                        | 20.95                       | 29.65              | -8.70                    |                      |
|                        |            | CDD     | AVG  | 242      | 64      | 1134/1201 (MCS11) | 11.86            | 11.89                  | 14.89      | 23.65  | -8.76                       | 6.01                        | 20.90                       | 29.65              | -8.75                    |                      |
|                        |            | SDM     | AVG  | 106      | 53      | 1134/1201 (MCS11) | 14.57            | 14.33                  | 17.46      | 23.65  | -6.19                       | 3.09                        | 20.55                       | 29.65              | -9.10                    |                      |
| 5690                   | 138        | SDM     | AVG  | 106      | 56      | 1134/1201 (MCS11) | 14.84            | 14.93                  | 17.90      | 23.65  | -5.75                       | 3.09                        | 20.99                       | 29.65              | -8.66                    |                      |
|                        |            | SDM     | AVG  | 106      | 60      | 1134/1201 (MCS11) | 14.67            | 15.00                  | 17.85      | 23.65  | -5.80                       | 3.09                        | 20.94                       | 29.65              | -8.71                    |                      |
| 5775                   | 155        | CDD     | AVG  | 484      | 65      | 1134/1201 (MCS11) | 14.94            | 14.76                  | 17.86      | 28.78  | -10.92                      | 7.22                        | 25.08                       | -                  | -                        |                      |
|                        |            | CDD     | AVG  | 484      | 66      | 1134/1201 (MCS11) | 15.00            | 14.98                  | 18.00      | 28.78  | -10.78                      | 7.22                        | 25.22                       | -                  | -                        |                      |

## FCC CDD/SDM Conducted Output Power Measurements (Fully-loaded RU)

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |
|                        | 5180       | 36      | CDD  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 14.42                  | 14.35      | 17.40  | 23.43                       | -6.03                       |
|                        | 5200       | 40      | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.78                  | 16.86      | 19.83  | 23.98                       | -4.15                       |
|                        | 5240       | 48      | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.76                  | 16.87      | 19.83  | 23.98                       | -4.15                       |
|                        | 5260       | 52      | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.83                  | 16.88      | 19.87  | 23.73                       | -3.86                       |
|                        | 5300       | 60      | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.81                  | 16.70      | 19.77  | 23.73                       | -3.96                       |
|                        | 5320       | 64      | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.40                  | 16.22      | 19.32  | 23.73                       | -4.41                       |
|                        | 5500       | 100     | CDD  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 13.27                  | 13.40      | 16.35  | 23.65                       | -7.30                       |
|                        | 5520       | 104     | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.40                  | 16.23      | 19.33  | 23.65                       | -4.32                       |
|                        | 5540       | 108     | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.77                  | 16.72      | 19.76  | 23.65                       | -3.89                       |
|                        | 5580       | 116     | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.78                  | 16.76      | 19.78  | 23.65                       | -3.87                       |
|                        | 5680       | 136     | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.85                  | 16.82      | 19.85  | 23.65                       | -3.80                       |
|                        | 5700       | 140     | CDD  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 12.60                  | 12.86      | 15.74  | 23.65                       | -7.91                       |
|                        | 5720       | 144     | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.75                  | 16.80      | 19.79  | 23.65                       | -3.86                       |
|                        | 5745       | 149     | CDD  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 19.32                  | 19.20      | 22.27  | 28.78                       | -6.51                       |
|                        | 5785       | 157     | CDD  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 19.26                  | 19.32      | 22.30  | 28.78                       | -6.48                       |
|                        | 5825       | 165     | CDD  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 19.36                  | 19.37      | 22.38  | 28.78                       | -6.40                       |

Table 7-58. FCC CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |
|                        | 5190       | 38      | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 11.45                  | 11.72      | 14.60  | 23.43                       | -8.83                       |
|                        | 5230       | 46      | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 17.31                  | 17.36      | 20.35  | 23.43                       | -3.08                       |
|                        | 5270       | 54      | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 17.90                  | 17.72      | 20.82  | 23.73                       | -2.91                       |
|                        | 5310       | 62      | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 12.94                  | 12.97      | 15.97  | 23.73                       | -7.76                       |
|                        | 5510       | 102     | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 10.20                  | 10.39      | 13.31  | 23.65                       | -10.34                      |
|                        | 5550       | 110     | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 16.86                  | 16.70      | 19.79  | 23.65                       | -3.86                       |
|                        | 5590       | 118     | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 17.95                  | 17.94      | 20.96  | 23.65                       | -2.69                       |
|                        | 5630       | 126     | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 17.91                  | 17.94      | 20.94  | 23.65                       | -2.71                       |
|                        | 5670       | 134     | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 14.35                  | 14.34      | 17.36  | 23.65                       | -6.29                       |
|                        | 5710       | 142     | SDM  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 19.30                  | 19.36      | 22.34  | 23.65                       | -1.31                       |
|                        | 5755       | 151     | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 19.37                  | 19.27      | 22.33  | 28.78                       | -6.45                       |
|                        | 5795       | 159     | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 19.48                  | 19.49      | 22.50  | 28.78                       | -6.28                       |

Table 7-59. FCC CDD/SDM 40MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |
|                        | 5210       | 42      | CDD  | AVG      | 996     | 67       | 1134/1201 (MCS11) | 10.98                  | 11.00      | 14.00  | 23.43                       | -9.43                       |
|                        | 5290       | 58      | CDD  | AVG      | 996     | 67       | 1134/1201 (MCS11) | 11.78                  | 11.79      | 14.80  | 23.73                       | -8.93                       |
|                        | 5530       | 106     | CDD  | AVG      | 996     | 67       | 1134/1201 (MCS11) | 10.44                  | 10.41      | 13.44  | 23.65                       | -10.21                      |
|                        | 5610       | 122     | CDD  | AVG      | 996     | 67       | 1134/1201 (MCS11) | 16.35                  | 16.37      | 19.37  | 23.65                       | -4.28                       |
|                        | 5690       | 138     | CDD  | AVG      | 996     | 67       | 1134/1201 (MCS11) | 19.25                  | 19.20      | 22.24  | 23.65                       | -1.41                       |
|                        | 5775       | 155     | CDD  | AVG      | 996     | 67       | 1134/1201 (MCS11) | 14.84                  | 14.82      | 17.84  | 28.78                       | -10.94                      |

Table 7-60. FCC CDD/SDM 80MHz BW (UNII) Maximum Conducted Output Power (Fully-loaded RU)

|                                            |                                                                                                                                         |                            |                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         |  <b>MEASUREMENT REPORT</b><br><b>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021                                                                                                   | EUT Type:<br>Tablet Device | Page 70 of 257                  |

## ISED CDD/SDM Conducted Output Power Measurements (Fully-loaded RU)

| 5GHz (20MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |                             |                    |                          |                      |
|                        | 5180       | 36      | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 10.79                  | 10.84      | 13.83  | -                           | -                           | 3.81                        | 17.64              | 22.76                    | -5.12                |
|                        | 5200       | 40      | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 10.79                  | 10.94      | 13.88  | -                           | -                           | 3.81                        | 17.69              | 22.76                    | -5.07                |
|                        | 5240       | 48      | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 10.77                  | 10.79      | 13.79  | -                           | -                           | 3.81                        | 17.60              | 22.76                    | -5.16                |
|                        | 5260       | 52      | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.83                  | 16.88      | 19.87  | 23.73                       | -3.86                       | 3.34                        | 23.21              | 29.73                    | -6.53                |
|                        | 5300       | 60      | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.81                  | 16.70      | 19.77  | 23.73                       | -3.96                       | 3.34                        | 23.11              | 29.73                    | -6.63                |
|                        | 5320       | 64      | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.40                  | 16.22      | 19.32  | 23.73                       | -4.41                       | 3.34                        | 22.66              | 29.73                    | -7.08                |
|                        | 5500       | 100     | CDD  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 13.27                  | 13.40      | 16.35  | 23.65                       | -7.30                       | 6.01                        | 22.36              | 29.65                    | -7.29                |
|                        | 5520       | 104     | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.40                  | 16.23      | 19.33  | 23.65                       | -4.32                       | 3.09                        | 22.42              | 29.65                    | -7.23                |
|                        | 5540       | 108     | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.77                  | 16.72      | 19.76  | 23.65                       | -3.89                       | 3.09                        | 22.85              | 29.65                    | -6.80                |
|                        | 5580       | 116     | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.78                  | 16.76      | 19.78  | 23.65                       | -3.87                       | 3.09                        | 22.87              | 29.65                    | -6.78                |
|                        | 5680       | 136     | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.85                  | 16.82      | 19.85  | 23.65                       | -3.80                       | 3.09                        | 22.94              | 29.65                    | -6.71                |
|                        | 5700       | 140     | CDD  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 12.60                  | 12.86      | 15.74  | 23.65                       | -7.91                       | 6.01                        | 21.75              | 29.65                    | -7.90                |
|                        | 5720       | 144     | SDM  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 16.75                  | 16.80      | 19.79  | 23.65                       | -3.86                       | 3.09                        | 22.88              | 29.65                    | -6.77                |
|                        | 5745       | 149     | CDD  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 19.32                  | 19.20      | 22.27  | 28.78                       | -6.51                       | 7.22                        | 29.49              | -                        | -                    |
|                        | 5785       | 157     | CDD  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 19.26                  | 19.32      | 22.30  | 28.78                       | -6.48                       | 7.22                        | 29.52              | -                        | -                    |
|                        | 5825       | 165     | CDD  | AVG      | 242     | 61       | 270/286.8 (MCS11) | 19.36                  | 19.37      | 22.38  | 28.78                       | -6.40                       | 7.22                        | 29.60              | -                        | -                    |

Table 7-61. ISED CDD/SDM 20MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

| 5GHz (40MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |                             |                    |                          |                      |
|                        | 5190       | 38      | SDM  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 11.60                  | 11.56      | 14.59  | -                           | -                           | 3.81                        | 18.40              | 22.76                    | -4.36                |
|                        | 5230       | 46      | SDM  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 13.96                  | 13.84      | 16.91  | -                           | -                           | 3.81                        | 20.72              | 22.76                    | -2.04                |
|                        | 5270       | 54      | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 17.90                  | 17.72      | 20.82  | 23.73                       | -2.91                       | 5.99                        | 26.81              | 29.73                    | -2.92                |
|                        | 5310       | 62      | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 12.94                  | 12.97      | 15.97  | 23.73                       | -7.76                       | 5.99                        | 21.96              | 29.73                    | -7.77                |
|                        | 5510       | 102     | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 10.20                  | 10.39      | 13.31  | 23.65                       | -10.34                      | 6.01                        | 19.32              | 29.65                    | -10.33               |
|                        | 5550       | 110     | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 16.86                  | 16.70      | 19.79  | 23.65                       | -3.86                       | 6.01                        | 25.80              | 29.65                    | -3.85                |
|                        | 5670       | 134     | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 14.35                  | 14.34      | 17.36  | 23.65                       | -6.29                       | 6.01                        | 23.37              | 29.65                    | -6.28                |
|                        | 5710       | 142     | SDM  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 19.30                  | 19.36      | 22.34  | 23.65                       | -1.31                       | 3.09                        | 25.43              | 29.65                    | -4.22                |
|                        | 5755       | 151     | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 19.37                  | 19.27      | 22.33  | 28.78                       | -6.45                       | 7.22                        | 29.55              | -                        | -                    |
|                        | 5795       | 159     | CDD  | AVG      | 484     | 65       | 542/573.6 (MCS11) | 19.48                  | 19.49      | 22.50  | 28.78                       | -6.28                       | 7.22                        | 29.72              | -                        | -                    |

Table 7-62. ISED CDD/SDM 40MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

| 5GHz (80MHz Bandwidth) | Freq [MHz] | Channel | Mode | Detector | RU Size | RU Index | Data Rate [Mbps]  | Conducted Powers [dBm] |            |        | Conducted Power Limit [dBm] | Conducted Power Margin [dB] | Directional Ant. Gain [dBi] | Max e.i.r.p. [dBm] | Max e.i.r.p. Limit [dBm] | e.i.r.p. Margin [dB] |
|------------------------|------------|---------|------|----------|---------|----------|-------------------|------------------------|------------|--------|-----------------------------|-----------------------------|-----------------------------|--------------------|--------------------------|----------------------|
|                        |            |         |      |          |         |          |                   | Antenna 5b             | Antenna 4b | Summed |                             |                             |                             |                    |                          |                      |
|                        | 5210       | 42      | SDM  | AVG      | 996     | 67       | 1134/1201 (MCS11) | 10.98                  | 11.00      | 14.00  | -                           | -                           | 3.81                        | 17.81              | 22.76                    | -4.95                |
|                        | 5290       | 58      | CDD  | AVG      | 996     | 67       | 1134/1201 (MCS11) | 11.78                  | 11.79      | 14.80  | 23.73                       | -8.93                       | 5.99                        | 20.79              | 29.73                    | -8.94                |
|                        | 5530       | 106     | CDD  | AVG      | 996     | 67       | 1134/1201 (MCS11) | 10.44                  | 10.41      | 13.44  | 23.65                       | -10.21                      | 6.01                        | 19.45              | 29.65                    | -10.20               |
|                        | 5690       | 138     | CDD  | AVG      | 996     | 67       | 1134/1201 (MCS11) | 19.25                  | 19.20      | 22.24  | 23.65                       | -1.41                       | 6.01                        | 28.25              | 29.65                    | -1.40                |
|                        | 5775       | 155     | CDD  | AVG      | 996     | 67       | 1134/1201 (MCS11) | 14.84                  | 14.82      | 17.84  | 28.78                       | -10.94                      | 7.22                        | 25.06              | -                        | -                    |

Table 7-63. ISED CDD/SDM 80MHz BW (UNII) Maximum Conducted Output Power and Max EIRP (Fully-loaded RU)

|                                            |                                                                                     |                                       |                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021                                               | EUT Type:<br>Tablet Device            | Page 71 of 257                  |



#### Note:

Per ANSI C63.10-2013 and KDB 662911 v02r01 Section E1), the conducted powers at Antenna 5b and Antenna 4b were first measured separately during CDD/SDM transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2013 Section 14.4.3, the correlated directional gain is calculated using the following formula, where  $G_N$  is the gain of the nth antenna and  $N_{ANT}$ , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Per ANSI C63.10-2013 Section 14.4.3, the uncorrelated directional gain is calculated using the following formula, where  $G_N$  is the gain of the nth antenna and  $N_{ANT}$ , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}] \text{ dBi}$$

#### Sample CDD/SDM Calculation:

At 5180MHz in 802.11ax (20MHz BW) mode, the average conducted output power was measured to be 2.06 dBm for Antenna-5b and 2.50 dBm for Antenna-4b.

$$\text{Antenna 5b} + \text{Antenna 4b} = \text{CDD/SDM}$$

$$(2.06 \text{ dBm} + 2.50 \text{ dBm}) = (1.61 \text{ mW} + 1.78 \text{ mW}) = 3.39 \text{ mW} = 5.30 \text{ dBm}$$

#### Sample e.i.r.p. Calculation:

At 5180MHz in 802.11ax (20MHz BW) mode, the average CDD/SDM conducted power was calculated to be 5.30 dBm with directional gain of 3.81 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$5.30 \text{ dBm} + 3.81 \text{ dBi} = 9.11 \text{ dBm}$$

|                                            |                                                                                                                                                                                                              |                                       |                                 |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         |  <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021                                                                                                                                                                        | EUT Type:<br>Tablet Device            | Page 72 of 257                  |



## 7.5 Maximum Power Spectral Density – 802.11ax OFDMA §15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

### Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. Method SA-1, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

***In the 5.15 – 5.25GHz, 5.25 – 5.35GHz, 5.47 – 5.725GHz bands, the maximum permissible power spectral density is 11dBm/MHz.***

***In the 5.725 – 5.850GHz band, the maximum permissible power spectral density is 30dBm/500kHz.***

### Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2

KDB 789033 D02 v02r01 – Section F

ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique

KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique

### Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points  $\geq 2 \times (\text{span/RBW})$
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-4. Test Instrument & Measurement Setup**

### Test Notes

1. All of the partially-loaded RU configurations have been investigated for Power Spectral Density measurement and among all partially-loaded RU configurations, the RU26 configuration was found to be the worst case. Therefore, only the RU26 (Partially-loaded RU) and RU242 (Fully-loaded RU) data are included in this section.
2. Low, mid, and high channels were tested and tabular data has been reported. Only mid channels psd plots have been reported.

|                                            |                                                                                                                                                                                                              |                                       |                                 |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         |  <b>PCTEST</b><br>Proud to be part of  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021                                                                                                                                                                        | EUT Type:<br>Tablet Device            | Page 73 of 257                  |

## Antenna 5b Power Spectral Density Measurements

|         | Frequency [MHz] | Channel No. | 802.11 Mode | RU Size | RU Index | Data Rate [Mbps]  | Measured Power Density [dBm/MHz] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|---------|----------|-------------------|----------------------------------|-----------------------------|-------------|
| Band 1  | 5180            | 36          | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | 8.57                             | 11.0                        | -2.43       |
|         |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | 8.22                             | 11.0                        | -2.78       |
|         |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 8.68                             | 11.0                        | -2.32       |
|         | 5200            | 40          | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | 8.72                             | 11.0                        | -2.28       |
|         |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | 7.91                             | 11.0                        | -3.09       |
|         |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 8.62                             | 11.0                        | -2.38       |
|         | 5240            | 48          | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | 8.98                             | 11.0                        | -2.02       |
|         |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | 8.45                             | 11.0                        | -2.55       |
|         |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 8.99                             | 11.0                        | -2.01       |
|         | 5190            | 38          | ax (40MHz)  | 26      | 0        | 271/286.8 (MCS11) | 8.46                             | 11.0                        | -2.54       |
|         |                 |             |             | 26      | 8        | 271/286.8 (MCS11) | 9.18                             | 11.0                        | -1.82       |
|         |                 |             |             | 26      | 17       | 271/286.8 (MCS11) | 8.72                             | 11.0                        | -2.28       |
|         | 5230            | 46          | ax (40MHz)  | 26      | 0        | 271/286.8 (MCS11) | 8.43                             | 11.0                        | -2.57       |
|         |                 |             |             | 26      | 8        | 271/286.8 (MCS11) | 9.48                             | 11.0                        | -1.53       |
|         |                 |             |             | 26      | 17       | 271/286.8 (MCS11) | 9.12                             | 11.0                        | -1.88       |
|         | 5210            | 42          | ax (80MHz)  | 26      | 0        | 567/600.5 (MCS11) | 8.05                             | 11.0                        | -2.95       |
|         |                 |             |             | 26      | 18       | 567/600.5 (MCS11) | 7.61                             | 11.0                        | -3.39       |
|         |                 |             |             | 26      | 36       | 567/600.5 (MCS11) | 8.72                             | 11.0                        | -2.28       |
| Band 2A | 5260            | 52          | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | 9.57                             | 11.0                        | -1.43       |
|         |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | 8.86                             | 11.0                        | -2.14       |
|         |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 9.76                             | 11.0                        | -1.24       |
|         | 5280            | 56          | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | 9.47                             | 11.0                        | -1.54       |
|         |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | 8.93                             | 11.0                        | -2.07       |
|         |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 9.58                             | 11.0                        | -1.42       |
|         | 5320            | 64          | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | 9.39                             | 11.0                        | -1.61       |
|         |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | 8.66                             | 11.0                        | -2.34       |
|         |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 9.25                             | 11.0                        | -1.75       |
|         | 5270            | 54          | ax (40MHz)  | 26      | 0        | 271/286.8 (MCS11) | 9.28                             | 11.0                        | -1.72       |
|         |                 |             |             | 26      | 8        | 271/286.8 (MCS11) | 10.44                            | 11.0                        | -0.56       |
|         |                 |             |             | 26      | 17       | 271/286.8 (MCS11) | 9.20                             | 11.0                        | -1.80       |
|         | 5310            | 62          | ax (40MHz)  | 26      | 0        | 271/286.8 (MCS11) | 8.63                             | 11.0                        | -2.37       |
|         |                 |             |             | 26      | 8        | 271/286.8 (MCS11) | 9.31                             | 11.0                        | -1.69       |
|         |                 |             |             | 26      | 17       | 271/286.8 (MCS11) | 8.96                             | 11.0                        | -2.04       |
|         | 5290            | 58          | ax (80MHz)  | 26      | 0        | 567/600.5 (MCS11) | 8.36                             | 11.0                        | -2.64       |
|         |                 |             |             | 26      | 18       | 567/600.5 (MCS11) | 8.19                             | 11.0                        | -2.82       |
|         |                 |             |             | 26      | 36       | 567/600.5 (MCS11) | 8.90                             | 11.0                        | -2.10       |
| Band 2C | 5500            | 100         | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | 9.21                             | 11.0                        | -1.79       |
|         |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | 6.55                             | 11.0                        | -4.45       |
|         |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 7.21                             | 11.0                        | -3.79       |
|         | 5580            | 116         | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | 9.21                             | 11.0                        | -1.79       |
|         |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | 7.97                             | 11.0                        | -3.03       |
|         |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 8.78                             | 11.0                        | -2.22       |
|         | 5720            | 144         | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | 9.06                             | 11.0                        | -1.94       |
|         |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | 8.68                             | 11.0                        | -2.32       |
|         |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 9.50                             | 11.0                        | -1.50       |
|         | 5510            | 102         | ax (40MHz)  | 26      | 0        | 271/286.8 (MCS11) | 8.39                             | 11.0                        | -2.61       |
|         |                 |             |             | 26      | 8        | 271/286.8 (MCS11) | 8.88                             | 11.0                        | -2.12       |
|         |                 |             |             | 26      | 17       | 271/286.8 (MCS11) | 8.49                             | 11.0                        | -2.51       |
|         | 5550            | 110         | ax (40MHz)  | 26      | 0        | 271/286.8 (MCS11) | 9.50                             | 11.0                        | -1.50       |
|         |                 |             |             | 26      | 8        | 271/286.8 (MCS11) | 9.40                             | 11.0                        | -1.60       |
|         |                 |             |             | 26      | 17       | 271/286.8 (MCS11) | 9.75                             | 11.0                        | -1.25       |
|         | 5710            | 142         | ax (40MHz)  | 26      | 0        | 271/286.8 (MCS11) | 9.52                             | 11.0                        | -1.48       |
|         |                 |             |             | 26      | 8        | 271/286.8 (MCS11) | 10.17                            | 11.0                        | -0.83       |
|         |                 |             |             | 26      | 17       | 271/286.8 (MCS11) | 9.74                             | 11.0                        | -1.26       |
|         | 5530            | 106         | ax (80MHz)  | 26      | 0        | 567/600.5 (MCS11) | 7.17                             | 11.0                        | -3.83       |
|         |                 |             |             | 26      | 18       | 567/600.5 (MCS11) | 7.06                             | 11.0                        | -3.94       |
|         |                 |             |             | 26      | 36       | 567/600.5 (MCS11) | 8.34                             | 11.0                        | -2.66       |
|         | *5610           | 122         | ax (80MHz)  | 26      | 0        | 567/600.5 (MCS11) | 8.16                             | 11.0                        | -2.84       |
|         |                 |             |             | 26      | 18       | 567/600.5 (MCS11) | 7.73                             | 11.0                        | -3.27       |
|         |                 |             |             | 26      | 36       | 567/600.5 (MCS11) | 8.69                             | 11.0                        | -2.31       |
|         | 5690            | 138         | ax (80MHz)  | 26      | 0        | 567/600.5 (MCS11) | 8.75                             | 11.0                        | -2.25       |
|         |                 |             |             | 26      | 18       | 567/600.5 (MCS11) | 8.00                             | 11.0                        | -3.00       |
|         |                 |             |             | 26      | 36       | 567/600.5 (MCS11) | 9.00                             | 11.0                        | -2.01       |

Table 7-64. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 5b (RU26)

\*TDWR channel is not supported for ISED (denoted by a \* next to the frequency)

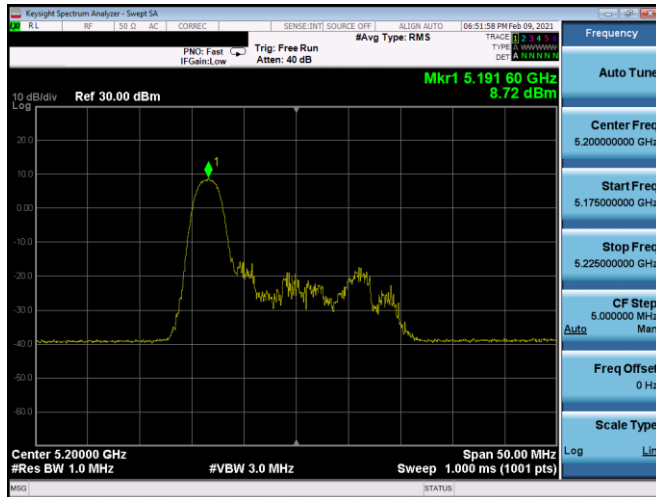
|                                            |                                                                                     |                                       |                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021                                               | EUT Type:<br>Tablet Device            | Page 74 of 257                  |

|         | Frequency [MHz] | Channel No. | 802.11 Mode | RU Size | RU Index | Data Rate [Mbps]  | Measured Power Density [dBm/MHz] | Max Power Density [dBm/MHz] | Margin [dB] |
|---------|-----------------|-------------|-------------|---------|----------|-------------------|----------------------------------|-----------------------------|-------------|
| Band 1  | 5180            | 36          | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 3.24                             | 11.0                        | -7.76       |
|         | 5200            | 40          | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 7.12                             | 11.0                        | -3.88       |
|         | 5240            | 48          | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 7.87                             | 11.0                        | -3.13       |
|         | 5190            | 38          | ax (40MHz)  | 484     | 65       | 271/286.8 (MCS11) | -2.59                            | 11.0                        | -13.59      |
|         | 5230            | 46          | ax (40MHz)  | 484     | 65       | 271/286.8 (MCS11) | 3.78                             | 11.0                        | -7.22       |
|         | 5210            | 42          | ax (80MHz)  | 996     | 67       | 567/600.5 (MCS11) | -5.34                            | 11.0                        | -16.34      |
| Band 2A | 5260            | 52          | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 8.32                             | 11.0                        | -2.68       |
|         | 5280            | 56          | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 8.18                             | 11.0                        | -2.82       |
|         | 5320            | 64          | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 5.49                             | 11.0                        | -5.51       |
|         | 5270            | 54          | ax (40MHz)  | 484     | 65       | 271/286.8 (MCS11) | 4.40                             | 11.0                        | -6.60       |
|         | 5310            | 62          | ax (40MHz)  | 484     | 65       | 271/286.8 (MCS11) | -1.11                            | 11.0                        | -12.11      |
|         | 5290            | 58          | ax (80MHz)  | 996     | 67       | 567/600.5 (MCS11) | -3.36                            | 11.0                        | -14.36      |
| Band 2C | 5500            | 100         | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 2.98                             | 11.0                        | -8.02       |
|         | 5580            | 116         | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 8.33                             | 11.0                        | -2.67       |
|         | 5720            | 144         | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 8.34                             | 11.0                        | -2.66       |
|         | 5510            | 102         | ax (40MHz)  | 484     | 65       | 271/286.8 (MCS11) | -3.48                            | 11.0                        | -14.48      |
|         | 5550            | 110         | ax (40MHz)  | 484     | 65       | 271/286.8 (MCS11) | 3.36                             | 11.0                        | -7.64       |
|         | *5590           | 118         | ax (40MHz)  | 484     | 65       | 271/286.8 (MCS11) | 3.47                             | 11.0                        | -7.53       |
|         | 5710            | 142         | ax (40MHz)  | 484     | 65       | 271/286.8 (MCS11) | 5.42                             | 11.0                        | -5.58       |
|         | 5530            | 106         | ax (80MHz)  | 996     | 67       | 567/600.5 (MCS11) | -5.31                            | 11.0                        | -16.31      |
|         | *5610           | 122         | ax (80MHz)  | 996     | 67       | 567/600.5 (MCS11) | -0.57                            | 11.0                        | -11.57      |
|         | 5690            | 138         | ax (80MHz)  | 996     | 67       | 567/600.5 (MCS11) | 2.49                             | 11.0                        | -8.51       |

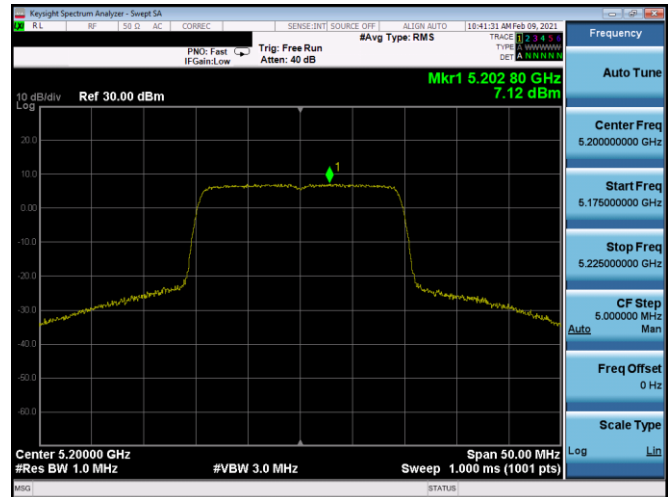
**Table 7-65. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 5b (Fully-loaded RU)**

\*TDWR channel is not supported for ISSED (denoted by a \* next to the frequency)

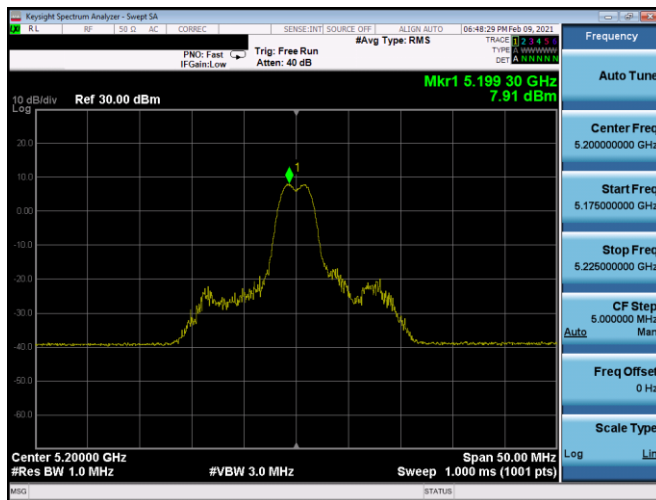
|                                            |                                                                                                                                         |                            |                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         |  <b>MEASUREMENT REPORT</b><br><b>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021                                                                                                   | EUT Type:<br>Tablet Device | Page 75 of 257                  |



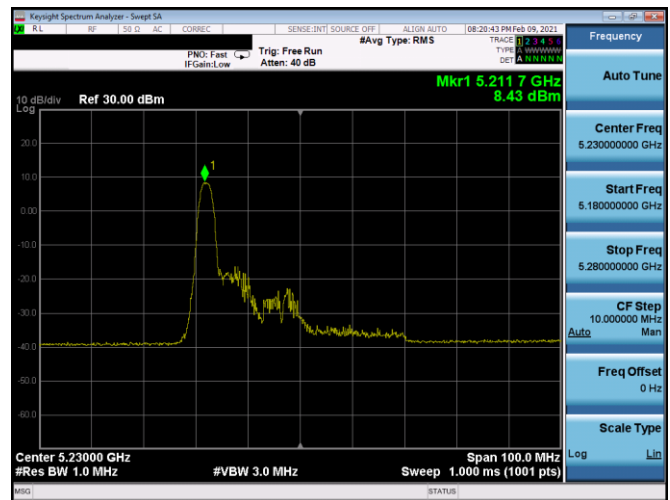
Plot 7-97. PSD Antenna 5b (20MHz BW 11ax Index 0 – RU26 – Ch.40)



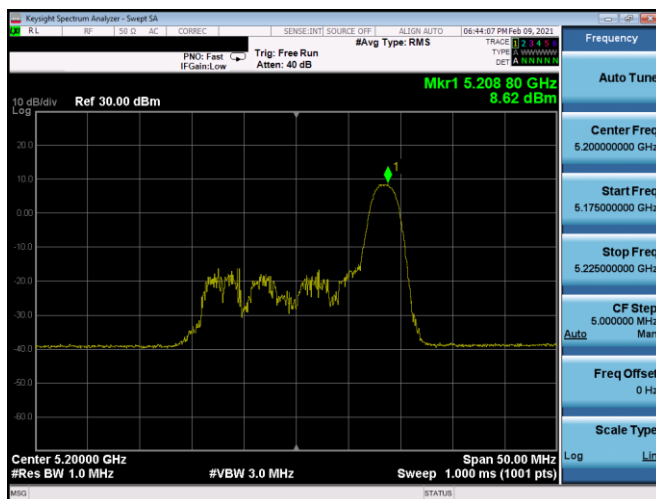
Plot 7-100. PSD Antenna 5b (20MHz BW 11ax – RU242 – Ch.40)



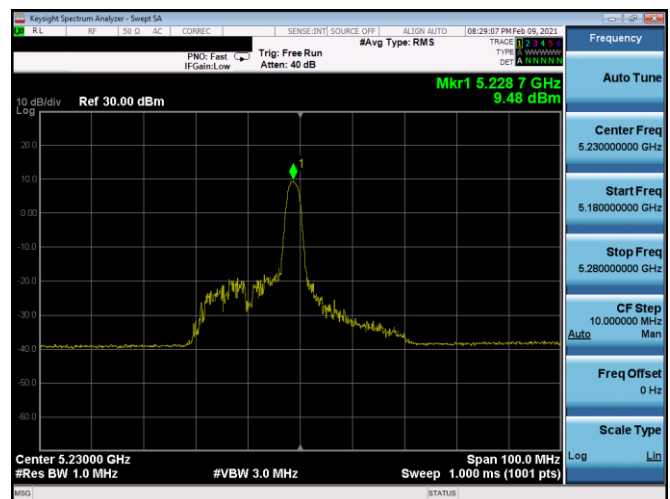
Plot 7-98. PSD Antenna 5b (20MHz BW 11ax Index 4 – RU26 – Ch.40)



Plot 7-101. PSD Antenna 5b (40MHz BW 11ax Index 0 – RU26 – Ch.46)

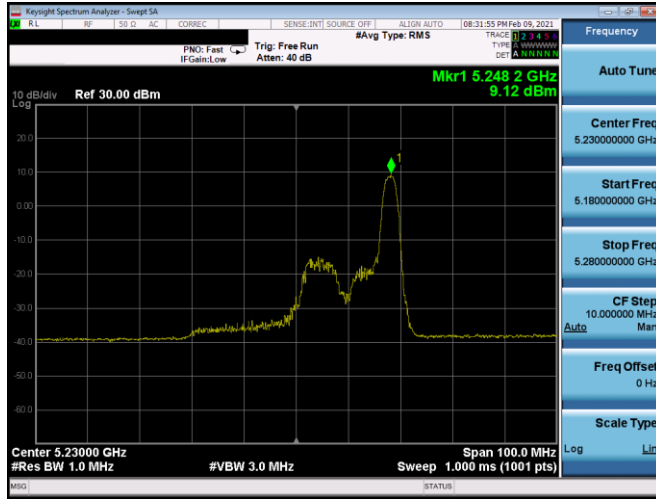


Plot 7-99. PSD Antenna 5b (20MHz BW 11ax Index 8 – RU26 – Ch.40)

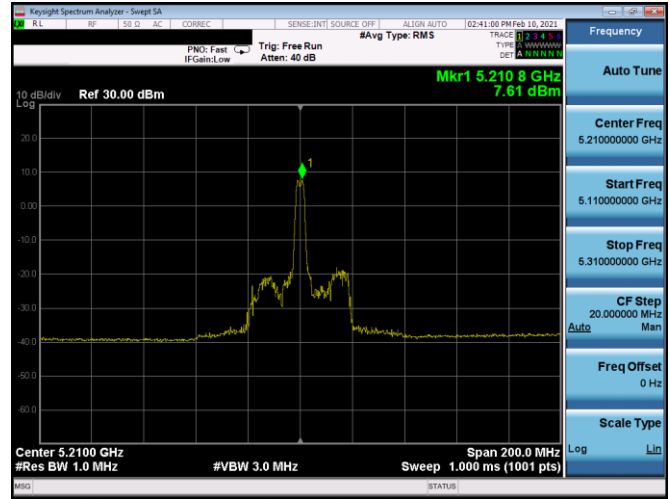


Plot 7-102. PSD Antenna 5b (40MHz BW 11ax Index 8 – RU26 – Ch.46)

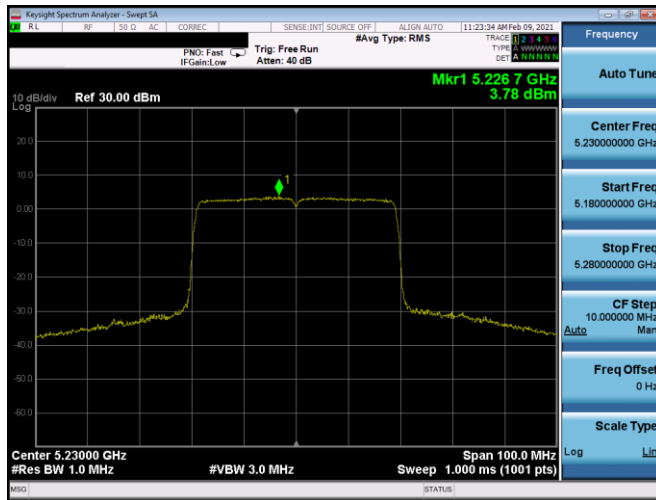
|                                            |                                              |                                       |                                 |
|--------------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021        | EUT Type:<br>Tablet Device            | Page 76 of 257                  |



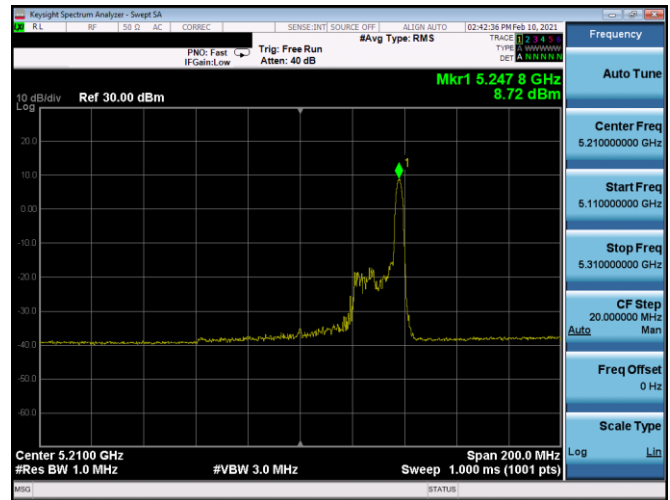
Plot 7-103. PSD Antenna 5b (40MHz BW 11ax Index 17 – RU26 – Ch.46)



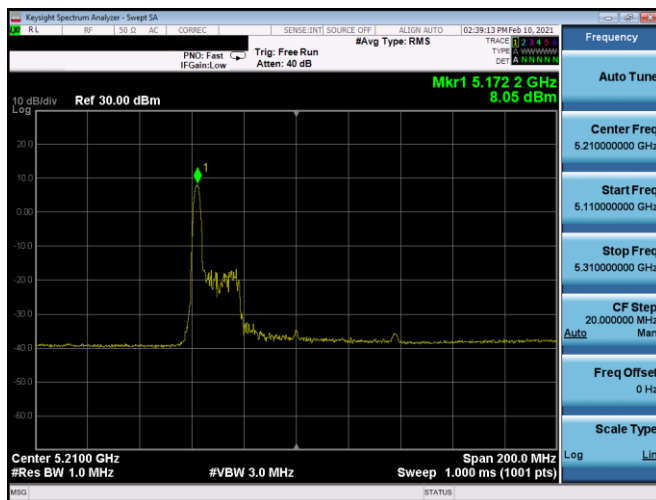
Plot 7-106. PSD Antenna 5b (80MHz BW 11ax Index 18 – RU26 – Ch.42)



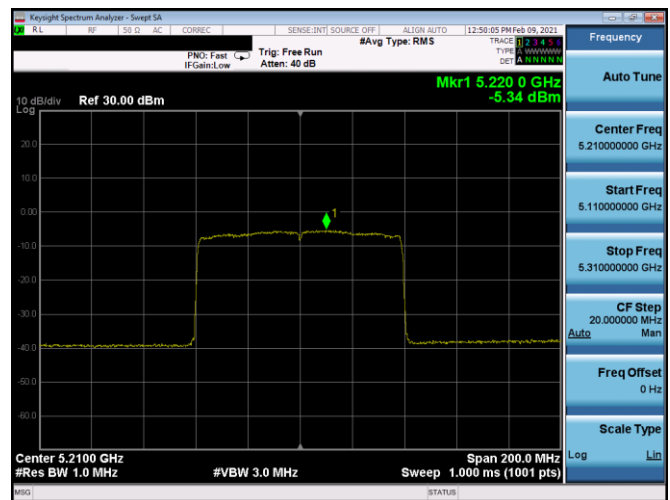
Plot 7-104. PSD Antenna 5b (40MHz BW 11ax – RU484 – Ch.46)



Plot 7-107. PSD Antenna 5b (80MHz BW 11ax Index 36 – RU26 – Ch.42)

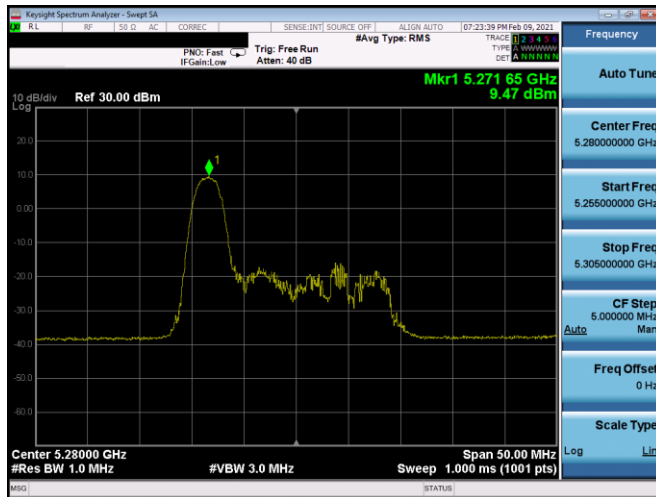


Plot 7-105. PSD Antenna 5b (80MHz BW 11ax Index 0 – RU26 – Ch.42)

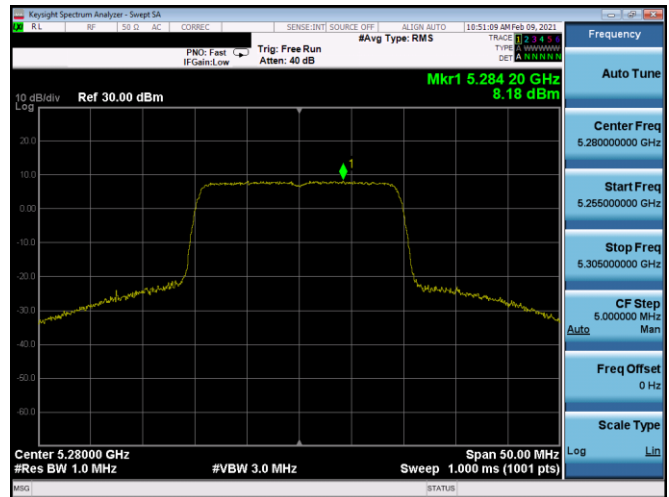


Plot 7-108. PSD Antenna 5b (80MHz BW 11ax – RU996 – Ch.42)

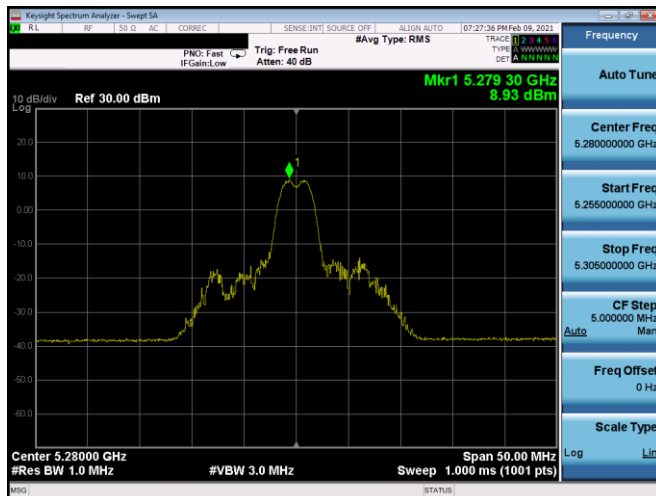
|                                            |                                              |                                       |                                 |
|--------------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021        | EUT Type:<br>Tablet Device            | Page 77 of 257                  |



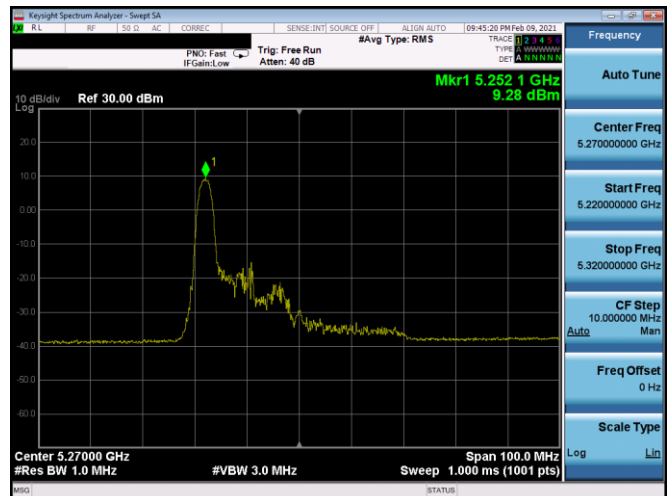
Plot 7-109. PSD Antenna 5b (20MHz BW 11ax Index 0 – RU26 – Ch.56)



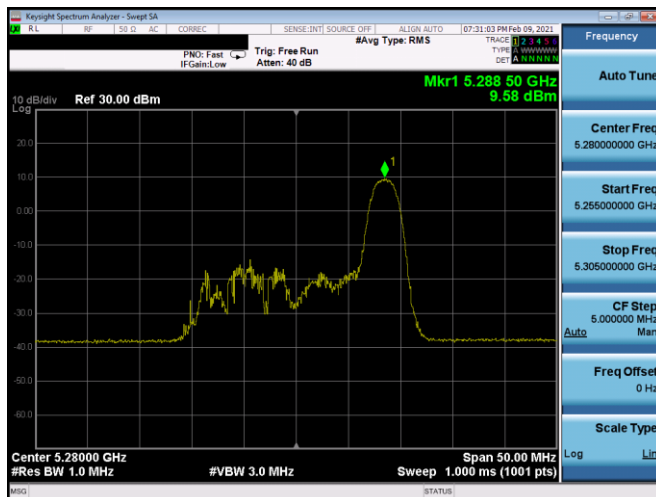
Plot 7-112. PSD Antenna 5b (20MHz BW 11ax–RU242 – Ch.56)



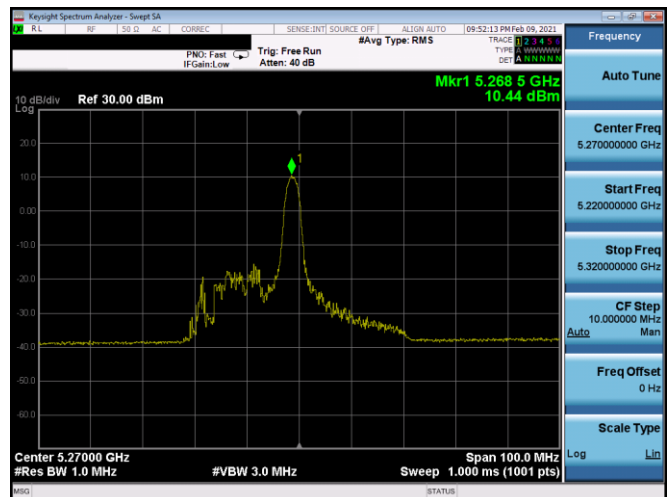
Plot 7-110. PSD Antenna 5b (20MHz BW 11ax Index 4 – RU26 – Ch.56)



Plot 7-113. PSD Antenna 5b (40MHz BW 11ax Index 0 – RU26 – Ch.54)

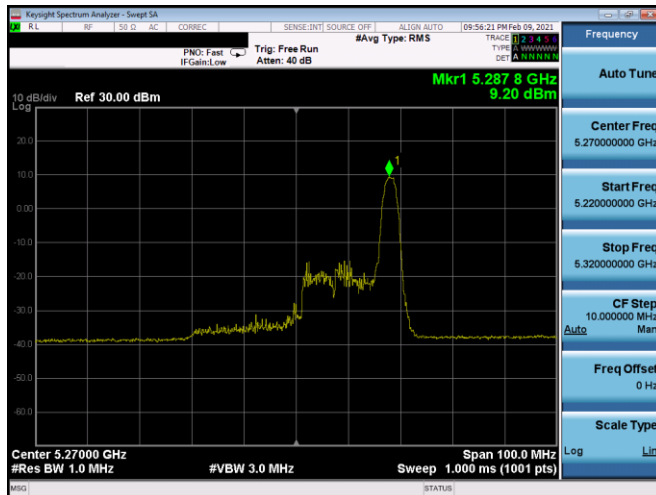


Plot 7-111. PSD Antenna 5b (20MHz BW 11ax Index 8– RU26 – Ch.56)

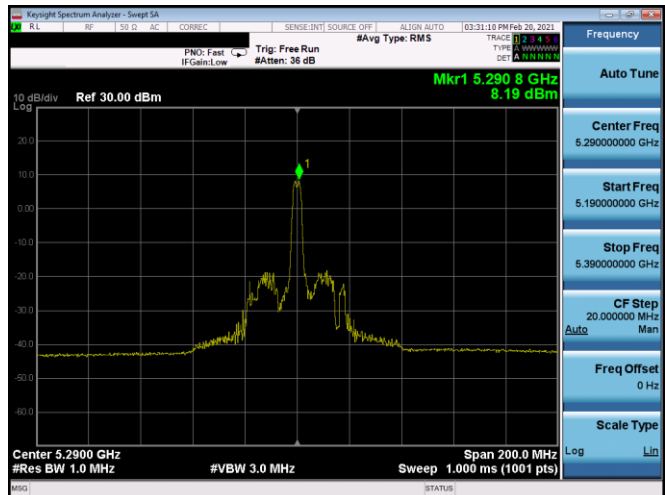


Plot 7-114. PSD Antenna 5b (40MHz BW 11ax Index 8 – RU26 – Ch.54)

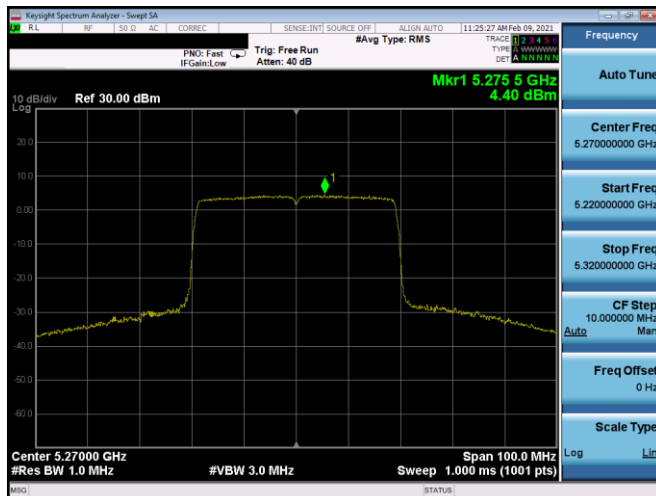
|                                            |                                              |                                       |                                 |
|--------------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021        | EUT Type:<br>Tablet Device            | Page 78 of 257                  |



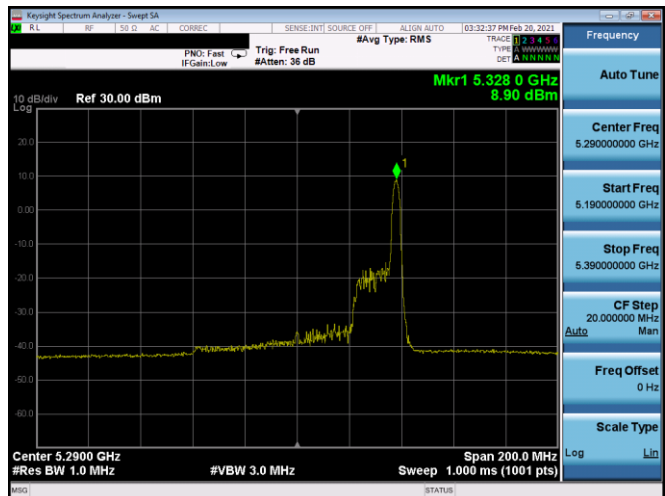
Plot 7-115. PSD Antenna 5b (40MHz BW 11ax Index 17 – RU26 – Ch.54)



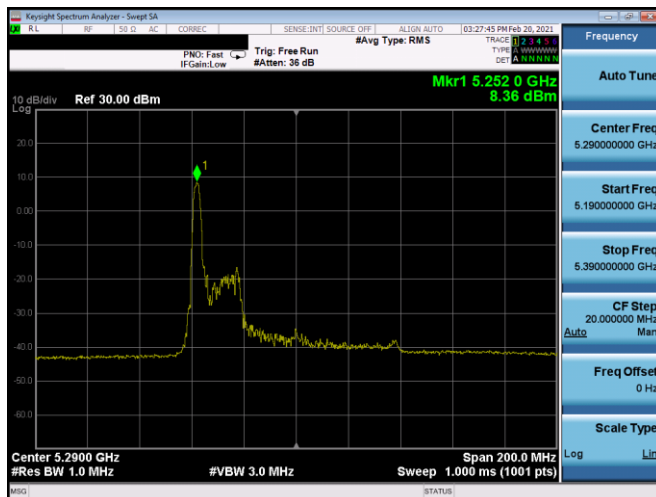
Plot 7-118. PSD Antenna 5b (80MHz BW 11ax Index 18 – RU26 – Ch.58)



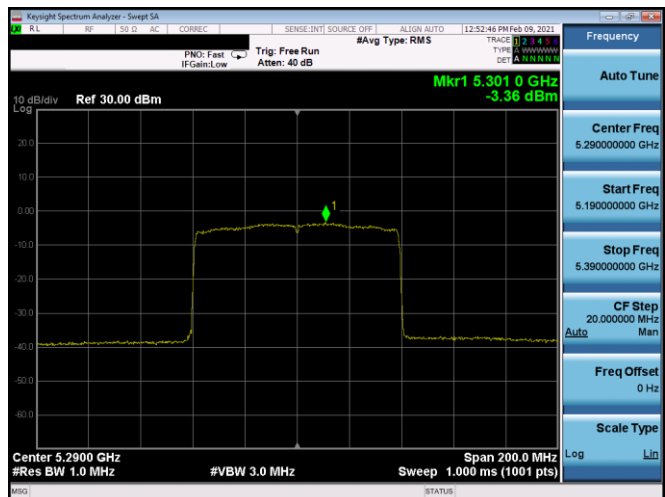
Plot 7-116. PSD Antenna 5b (40MHz BW 11ax – RU484 – Ch.54)



Plot 7-119. PSD Antenna 5b (80MHz BW 11ax Index 36 – RU26 – Ch.58)



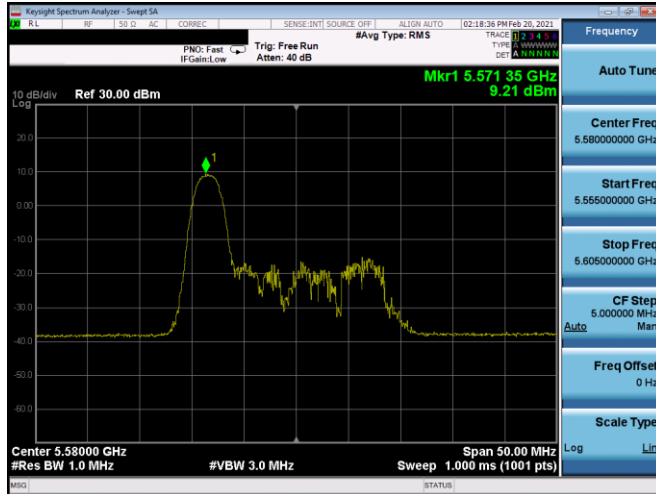
Plot 7-117. PSD Antenna 5b (80MHz BW 11ax Index 0 – RU26 – Ch.58)



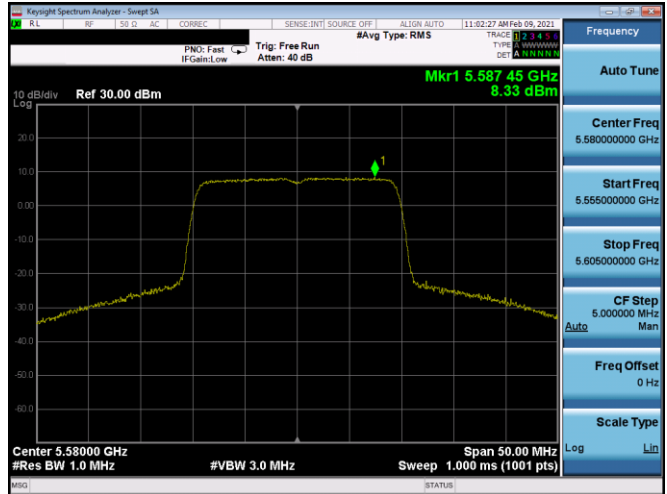
Plot 7-120. PSD Antenna 5b (80MHz BW 11ax – RU996 – Ch.58)

|                                            |                                              |                                       |                                 |
|--------------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021        | EUT Type:<br>Tablet Device            | Page 79 of 257                  |

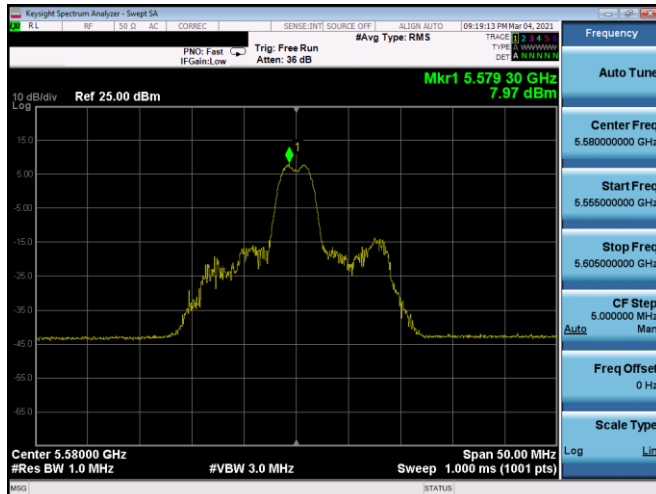




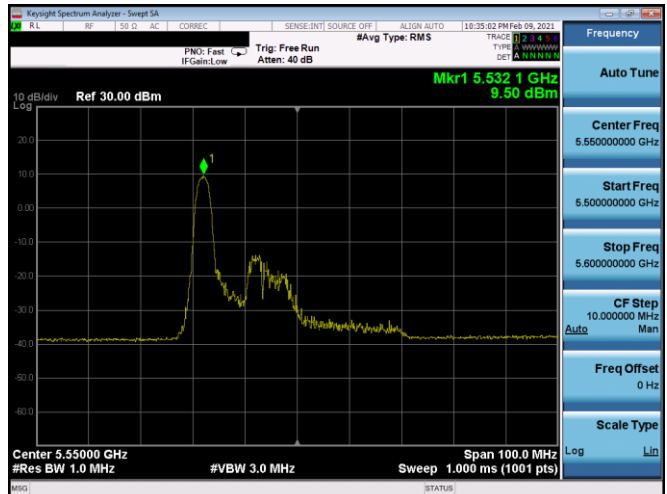
Plot 7-121. PSD Antenna 5b (20MHz BW 11ax Index 0 – RU26 – Ch.116)



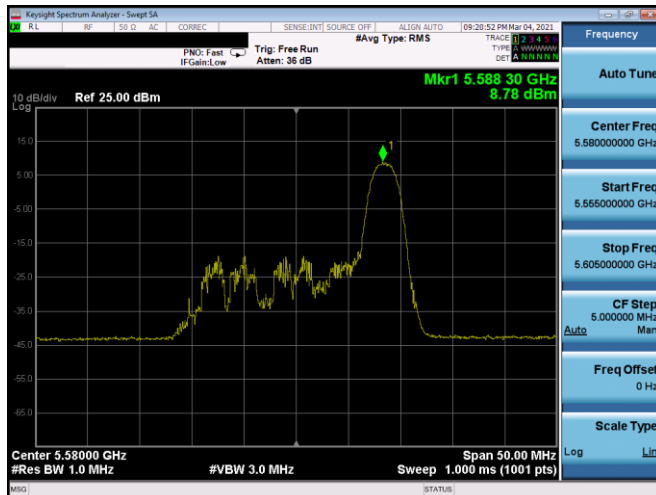
Plot 7-124. PSD Antenna 5b (20MHz BW 11ax– RU242 – Ch.116)



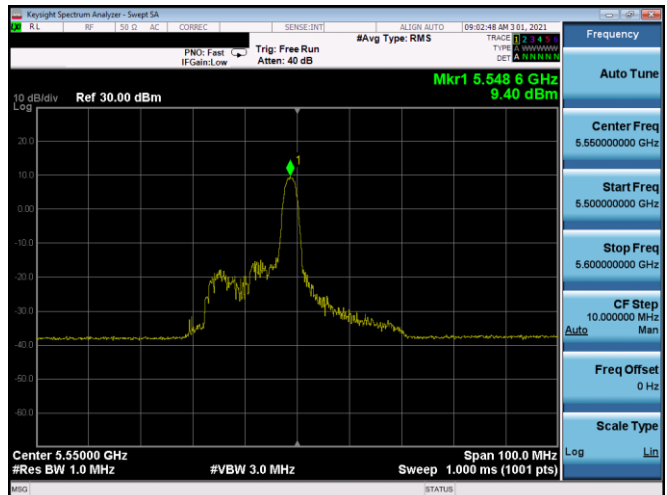
Plot 7-122. PSD Antenna 5b (20MHz BW 11ax Index 4 – RU26 – Ch.116)



Plot 7-125. PSD Antenna 5b (40MHz BW 11ax Index 0 – RU26 – Ch.110)

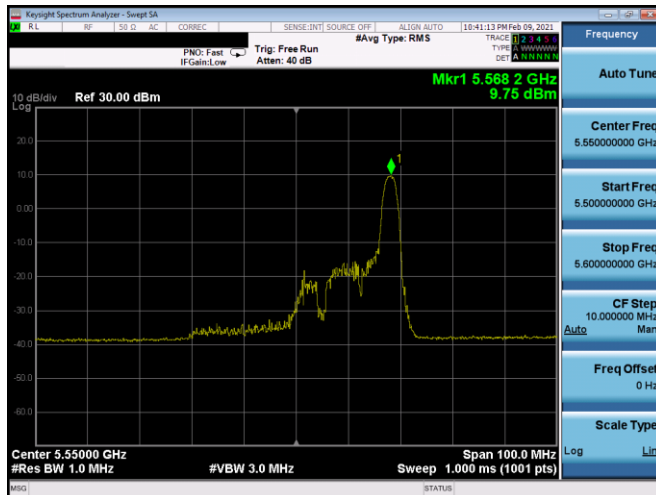


Plot 7-123. PSD Antenna 5b (20MHz BW 11ax Index 8 – RU26 – Ch.116)



Plot 7-126. PSD Antenna 5b (40MHz BW 11ax Index 8 – RU26 – Ch.110)

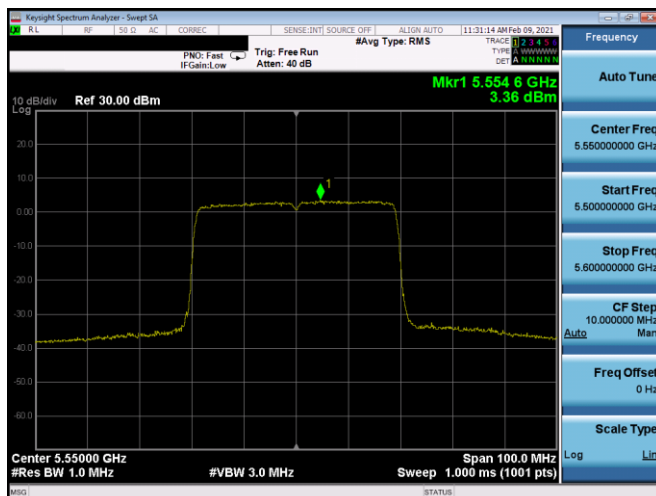
|                                            |                                              |                                       |                                 |
|--------------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021        | EUT Type:<br>Tablet Device            | Page 80 of 257                  |



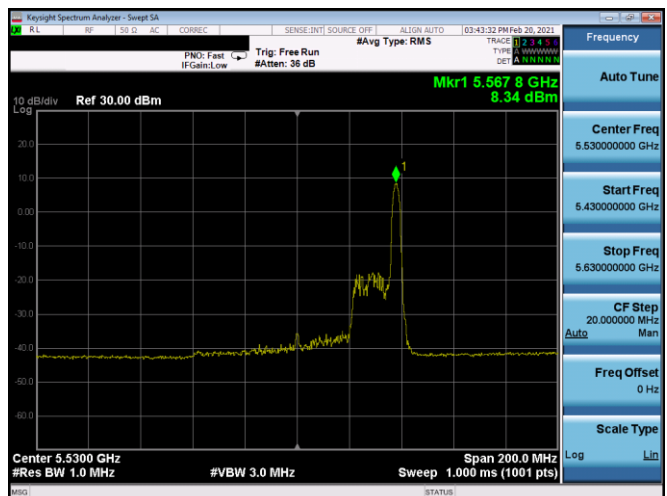
Plot 7-127. PSD Antenna 5b (40MHz BW 11ax Index 17 – RU26 – Ch.110)



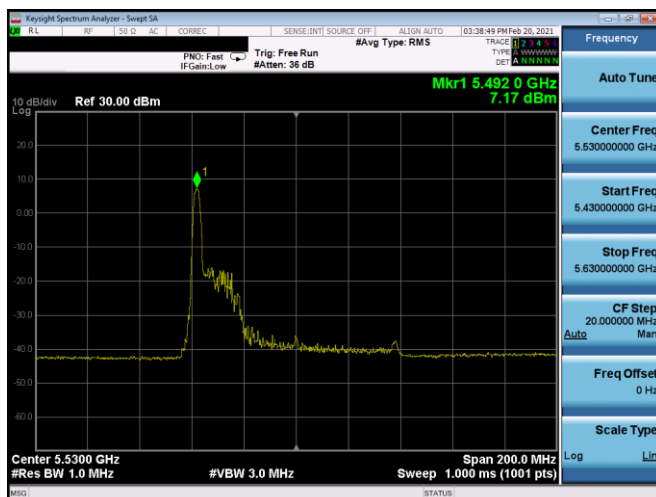
Plot 7-130. PSD Antenna 5b (80MHz BW 11ax Index 18 – RU26 – Ch.106)



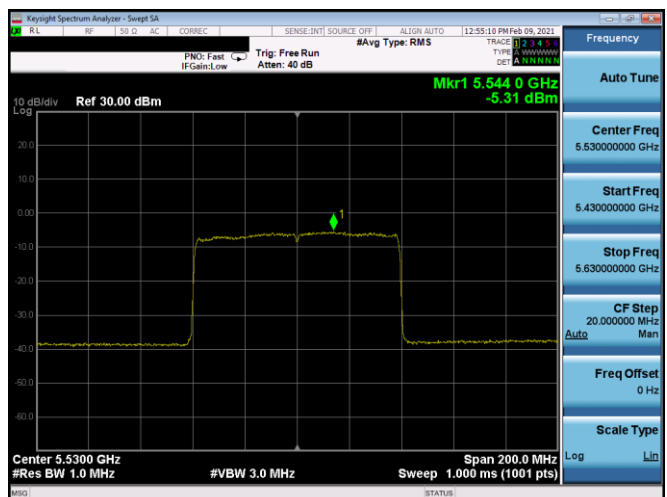
Plot 7-128. PSD Antenna 5b (40MHz BW 11ax – RU484 – Ch.110)



Plot 7-131. PSD Antenna 5b (80MHz BW 11ax Index 36 – RU26 – Ch.106)



Plot 7-129. PSD Antenna 5b (80MHz BW 11ax Index 0 – RU26 – Ch.106)



Plot 7-132. PSD Antenna 5b (80MHz BW 11ax – RU996 – Ch.106)

|                                            |                                              |                                       |                                 |
|--------------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021        | EUT Type:<br>Tablet Device            | Page 81 of 257                  |

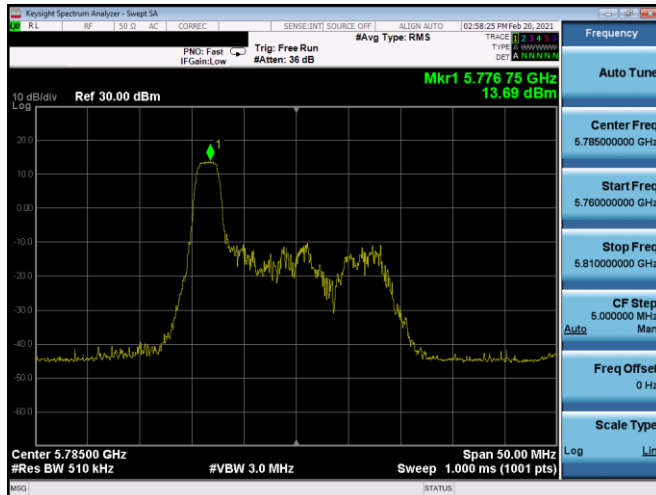
|        | Frequency [MHz] | Channel No. | 802.11 Mode | RU Size | RU Index | Data Rate [Mbps]  | Measured Power Density [dBm/500kHz] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|---------|----------|-------------------|-------------------------------------|--------------------------------------------|-------------|
| Band 3 | 5745            | 149         | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | 14.01                               | 30.00                                      | -15.99      |
|        |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | 14.23                               | 30.00                                      | -15.77      |
|        |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 14.36                               | 30.00                                      | -15.64      |
|        | 5785            | 157         | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | 13.69                               | 30.00                                      | -16.31      |
|        |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | 14.06                               | 30.00                                      | -15.94      |
|        |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 13.89                               | 30.00                                      | -16.11      |
|        | 5825            | 165         | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | 13.85                               | 30.00                                      | -16.16      |
|        |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | 14.07                               | 30.00                                      | -15.94      |
|        |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 13.75                               | 30.00                                      | -16.25      |
|        | 5755            | 151         | ax (40MHz)  | 26      | 0        | 271/286.8 (MCS11) | 14.32                               | 30.00                                      | -15.68      |
|        |                 |             |             | 26      | 8        | 271/286.8 (MCS11) | 15.52                               | 30.00                                      | -14.48      |
|        |                 |             |             | 26      | 17       | 271/286.8 (MCS11) | 14.58                               | 30.00                                      | -15.42      |
|        | 5795            | 159         | ax (40MHz)  | 26      | 0        | 271/286.8 (MCS11) | 13.87                               | 30.00                                      | -16.13      |
|        |                 |             |             | 26      | 8        | 271/286.8 (MCS11) | 14.97                               | 30.00                                      | -15.03      |
|        |                 |             |             | 26      | 17       | 271/286.8 (MCS11) | 14.15                               | 30.00                                      | -15.85      |
|        | 5775            | 155         | ax (80MHz)  | 26      | 0        | 567/600.5 (MCS11) | 10.12                               | 30.00                                      | -19.88      |
|        |                 |             |             | 26      | 18       | 567/600.5 (MCS11) | 10.03                               | 30.00                                      | -19.97      |
|        |                 |             |             | 26      | 36       | 567/600.5 (MCS11) | 10.10                               | 30.00                                      | -19.90      |

Table 7-66. Band 3 Power Spectral Density Measurements Antenna 5b (RU26)

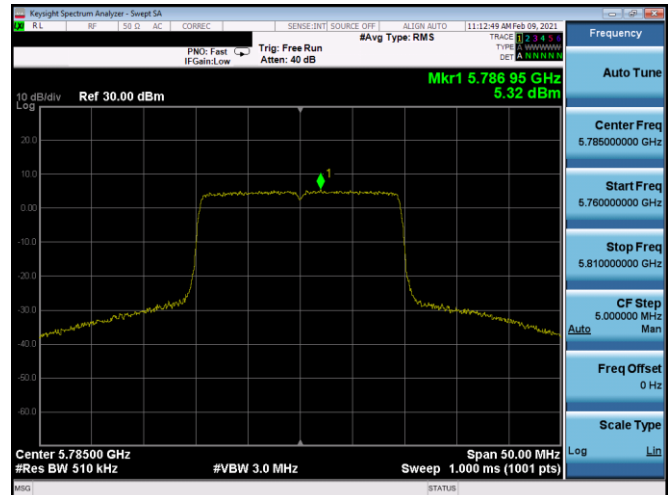
|        | Frequency [MHz] | Channel No. | 802.11 Mode | RU Size | RU Index | Data Rate [Mbps]  | Measured Power Density [dBm/500kHz] | Max Permissible Power Density [dBm/500kHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|---------|----------|-------------------|-------------------------------------|--------------------------------------------|-------------|
| Band 3 | 5745            | 149         | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 5.48                                | 30.00                                      | -24.52      |
|        | 5785            | 157         | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 5.32                                | 30.00                                      | -24.68      |
|        | 5825            | 165         | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 5.11                                | 30.00                                      | -24.89      |
|        | 5755            | 151         | ax (40MHz)  | 484     | 65       | 271/286.8 (MCS11) | 2.35                                | 30.00                                      | -27.65      |
|        | 5795            | 159         | ax (40MHz)  | 484     | 65       | 271/286.8 (MCS11) | 2.23                                | 30.00                                      | -27.77      |
|        | 5775            | 155         | ax (80MHz)  | 996     | 67       | 567/600.5 (MCS11) | -3.65                               | 30.00                                      | -33.65      |

Table 7-67. Band 3 Power Spectral Density Measurements Antenna 5b (Fully-loaded RU)

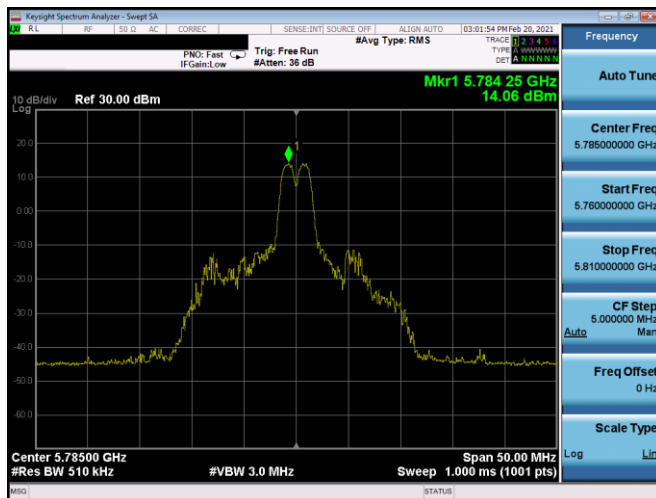
|                                            |                                                                                                                                  |                            |                                 |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         |  <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021                                                                                            | EUT Type:<br>Tablet Device | Page 82 of 257                  |



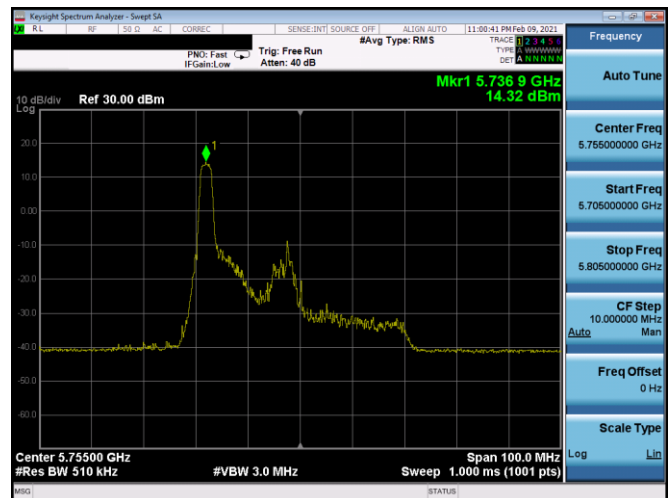
Plot 7-133. PSD Antenna 5b (20MHz BW 11ax Index 0 - RU26 - Ch.157)



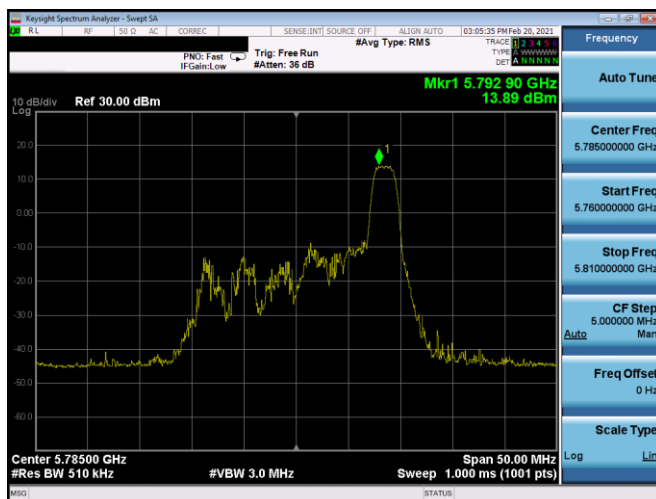
Plot 7-136. PSD Antenna 5b (20MHz BW 11ax - RU242 - Ch.157)



Plot 7-134. PSD Antenna 5b (20MHz BW 11ax Index 4 - RU26 - Ch.157)



Plot 7-137. PSD Antenna 5b (40MHz BW 11ax Index 0 - RU26 - Ch.151)

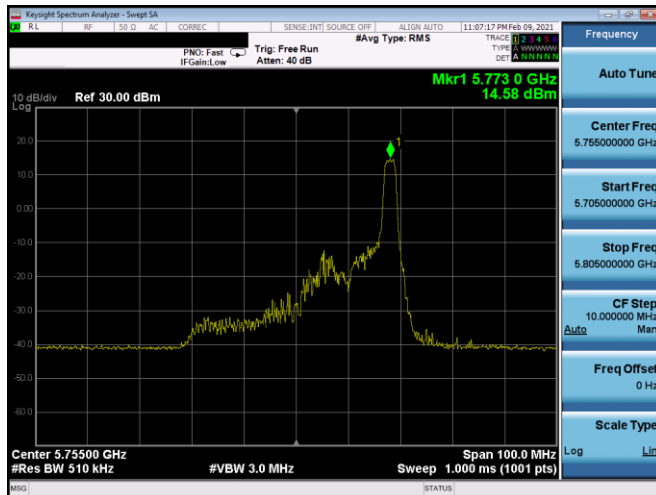


Plot 7-135. PSD Antenna 5b (20MHz BW 11ax Index 8 - RU26 - Ch.157)



Plot 7-138. PSD Antenna 5b (40MHz BW 11ax Index 8 - RU26 - Ch.151)

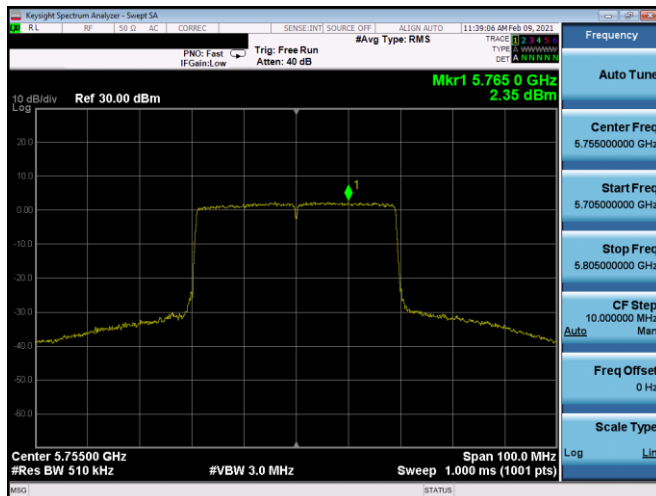
|                                            |                                              |                                       |                                 |
|--------------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021        | EUT Type:<br>Tablet Device            | Page 83 of 257                  |



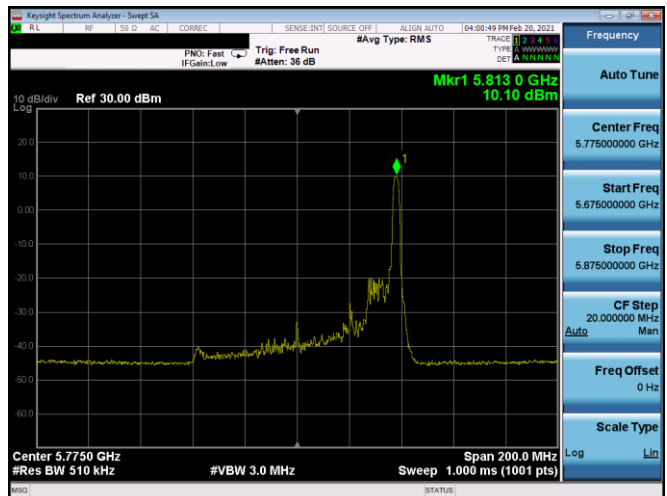
Plot 7-139. PSD Antenna 5b (40MHz BW 11ax Index 17 – RU26 – Ch.151)



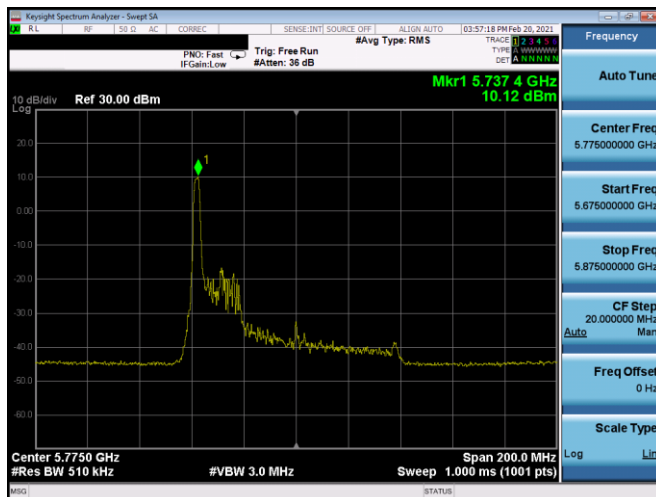
Plot 7-142. PSD Antenna 5b (80MHz BW 11ax Index 18 – RU26 – Ch.155)



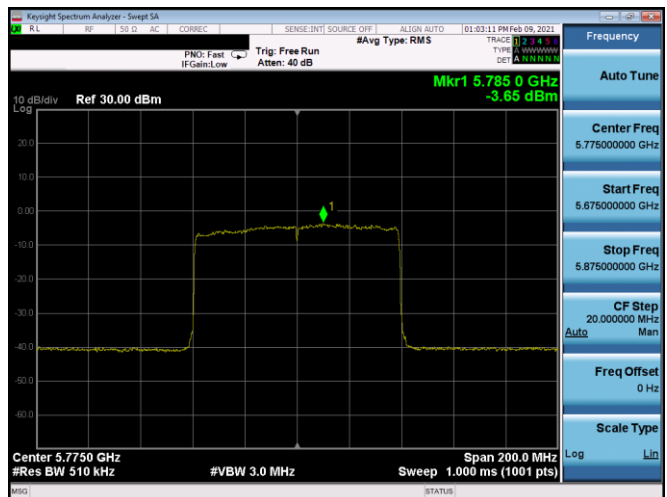
Plot 7-140. PSD Antenna 5b (40MHz BW 11ax – RU484 – Ch.151)



Plot 7-143. PSD Antenna 5b (80MHz BW 11ax Index 36 – RU26 – Ch.155)



Plot 7-141. PSD Antenna 5b (80MHz BW 11ax Index 0 – RU26 – Ch.155)



Plot 7-144. PSD Antenna 5b (80MHz BW 11ax – RU996 – Ch.155)

|                                            |                                              |                                       |                                 |
|--------------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021        | EUT Type:<br>Tablet Device            | Page 84 of 257                  |

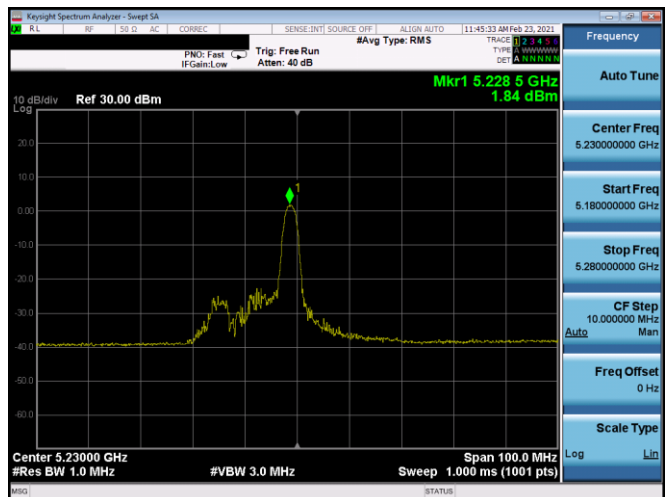
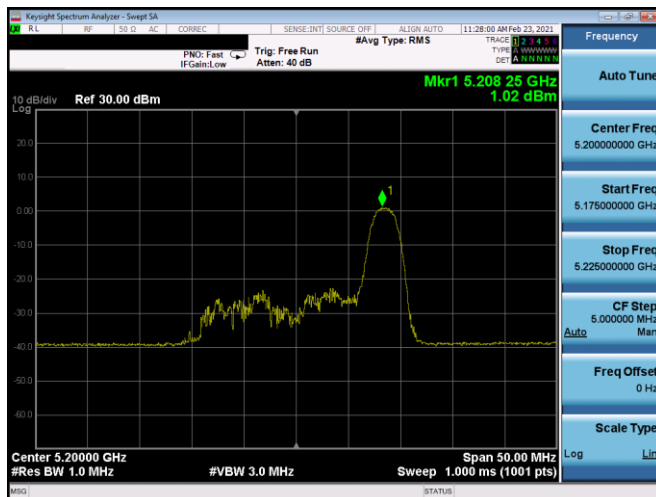
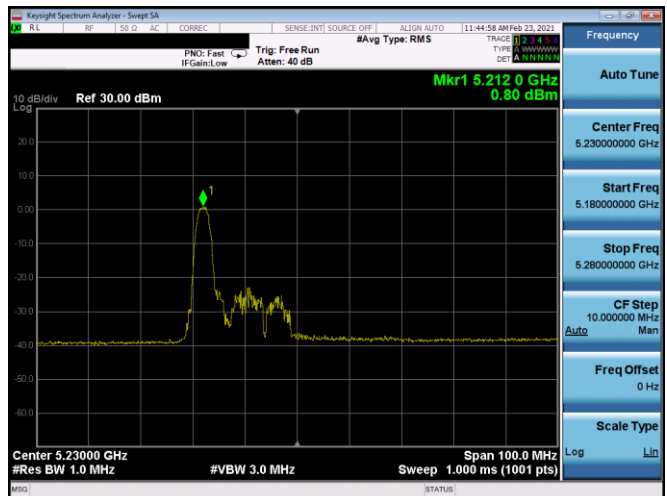
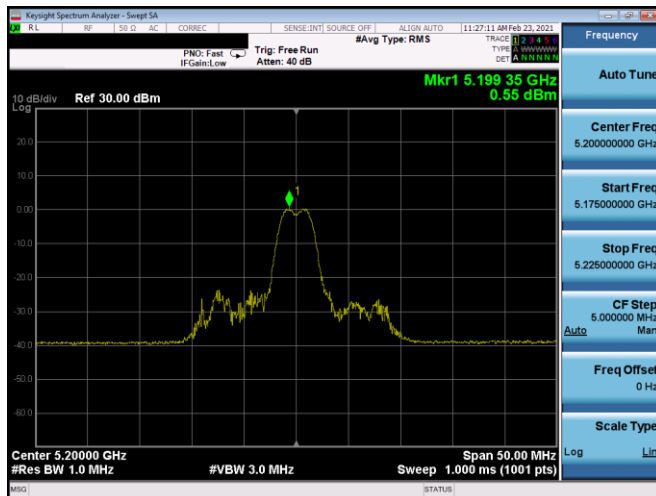
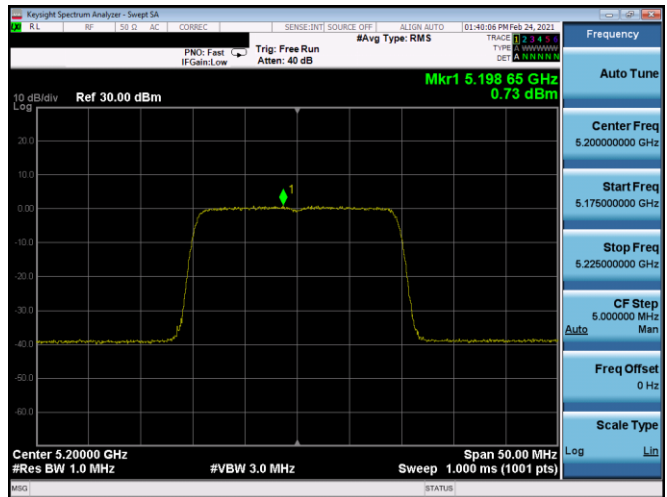
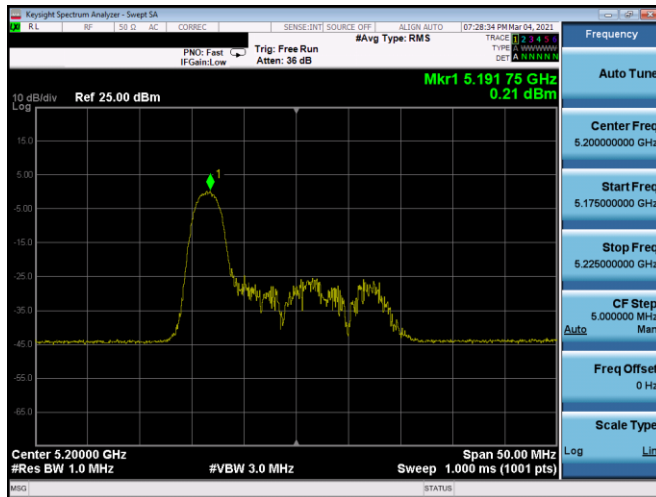
|        | Frequency [MHz] | Channel No. | 802.11 Mode | RU Size | RU Index | Data Rate [Mbps]  | Measured Power Density [dBm/MHz] | Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|---------|----------|-------------------|----------------------------------|--------------------|----------------------------------|-------------------------------------------|-------------|
| Band 1 | 5180            | 36          | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | -0.15                            | 5.50               | 5.35                             | 10.0                                      | -4.65       |
|        |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | -0.55                            | 5.50               | 4.95                             | 10.0                                      | -5.05       |
|        |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | -0.16                            | 5.50               | 5.34                             | 10.0                                      | -4.66       |
|        | 5200            | 40          | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | 0.21                             | 5.50               | 5.71                             | 10.0                                      | -4.29       |
|        |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | 0.55                             | 5.50               | 6.05                             | 10.0                                      | -3.95       |
|        |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 1.02                             | 5.50               | 6.52                             | 10.0                                      | -3.48       |
|        | 5240            | 48          | ax (20MHz)  | 26      | 0        | 135/143.4 (MCS11) | -0.01                            | 5.50               | 5.49                             | 10.0                                      | -4.51       |
|        |                 |             |             | 26      | 4        | 135/143.4 (MCS11) | -0.19                            | 5.50               | 5.31                             | 10.0                                      | -4.69       |
|        |                 |             |             | 26      | 8        | 135/143.4 (MCS11) | 0.28                             | 5.50               | 5.78                             | 10.0                                      | -4.22       |
|        | 5190            | 38          | ax (40MHz)  | 26      | 0        | 271/286.8 (MCS11) | 0.74                             | 5.50               | 6.24                             | 10.0                                      | -3.76       |
|        |                 |             |             | 26      | 8        | 271/286.8 (MCS11) | 1.74                             | 5.50               | 7.24                             | 10.0                                      | -2.76       |
|        |                 |             |             | 26      | 17       | 271/286.8 (MCS11) | 1.17                             | 5.50               | 6.67                             | 10.0                                      | -3.33       |
|        | 5230            | 46          | ax (40MHz)  | 26      | 0        | 271/286.8 (MCS11) | 0.80                             | 5.50               | 6.30                             | 10.0                                      | -3.70       |
|        |                 |             |             | 26      | 8        | 271/286.8 (MCS11) | 1.84                             | 5.50               | 7.34                             | 10.0                                      | -2.66       |
|        |                 |             |             | 26      | 17       | 271/286.8 (MCS11) | 1.51                             | 5.50               | 7.01                             | 10.0                                      | -2.99       |
|        | 5210            | 42          | ax (80MHz)  | 26      | 0        | 567/600.5 (MCS11) | -1.40                            | 5.50               | 4.10                             | 10.0                                      | -5.90       |
|        |                 |             |             | 26      | 18       | 567/600.5 (MCS11) | -0.32                            | 5.50               | 5.18                             | 10.0                                      | -4.82       |
|        |                 |             |             | 26      | 36       | 567/600.5 (MCS11) | 0.37                             | 5.50               | 5.87                             | 10.0                                      | -4.13       |

**Table 7-68. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna 5b (RU26)**

|        | Frequency [MHz] | Channel No. | 802.11 Mode | RU Size | RU Index | Data Rate [Mbps]  | Measured Power Density [dBm/MHz] | Antenna Gain [dBi] | e.i.r.p. Power Density [dBm/MHz] | ISED Max e.i.r.p. Power Density [dBm/MHz] | Margin [dB] |
|--------|-----------------|-------------|-------------|---------|----------|-------------------|----------------------------------|--------------------|----------------------------------|-------------------------------------------|-------------|
| Band 1 | 5180            | 36          | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 0.67                             | 5.50               | 6.17                             | 10.0                                      | -3.83       |
|        | 5200            | 40          | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 0.73                             | 5.50               | 6.23                             | 10.0                                      | -3.77       |
|        | 5240            | 48          | ax (20MHz)  | 242     | 61       | 135/143.4 (MCS11) | 1.11                             | 5.50               | 6.61                             | 10.0                                      | -3.39       |
|        | 5190            | 38          | ax (40MHz)  | 484     | 65       | 271/286.8 (MCS11) | -2.47                            | 5.50               | 3.03                             | 10.0                                      | -6.97       |
|        | 5230            | 46          | ax (40MHz)  | 484     | 65       | 271/286.8 (MCS11) | 0.71                             | 5.50               | 6.21                             | 10.0                                      | -3.79       |
|        | 5210            | 42          | ax (80MHz)  | 996     | 67       | 567/600.5 (MCS11) | -5.34                            | 5.50               | 0.16                             | 10.0                                      | -9.84       |

**Table 7-69. ISED Band 1 e.i.r.p. Power Spectral Density Measurements Antenna 5b (Fully-loaded RU)**

|                                                   |                                                                                                                                                                                                              |                                               |                                        |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301                |  <b>PCTEST</b><br>Proud to be part of  | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C2101020002-16-R1.BCG | <b>Test Dates:</b><br>12/12/2020 - 3/10/2021                                                                                                                                                                 | <b>EUT Type:</b><br>Tablet Device             | Page 85 of 257                         |



|                                            |                                              |                                       |                                 |
|--------------------------------------------|----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2301<br>IC: 579C-A2301         | <b>PCTEST</b><br>Proud to be part of element | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C2101020002-16-R1.BCG | Test Dates:<br>12/12/2020 - 3/10/2021        | EUT Type:<br>Tablet Device            | Page 86 of 257                  |