



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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# Appendix E

## Conducted RF Output Power

|                                   |                              |
|-----------------------------------|------------------------------|
| Measurement of RF conducted Power |                              |
| 1                                 | Conducted Power of WIFI      |
| 2                                 | Conducted Power of Bluetooth |

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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# 1 Conducted Power of WIFI

| WIFI 2.4G Ant     |         |                |                 |                     |         |
|-------------------|---------|----------------|-----------------|---------------------|---------|
| Mode              | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| 802.11b           | 1       | 2412           | 1               | 14.92               | 16.00   |
|                   | 6       | 2437           |                 | 15.29               | 16.00   |
|                   | 11      | 2462           |                 | 15.30               | 16.00   |
| 802.11g           | 1       | 2412           | 6               | 19.85               | 20.00   |
|                   | 6       | 2437           |                 | 19.76               | 20.00   |
|                   | 11      | 2462           |                 | 19.80               | 20.00   |
| 802.11n<br>HT20   | 1       | 2412           | 6.5             | 19.78               | 20.00   |
|                   | 6       | 2437           |                 | 19.84               | 20.00   |
|                   | 11      | 2462           |                 | 19.81               | 20.00   |
| 802.11n<br>HT40   | 3       | 2422           | 13.5            | 19.84               | 20.00   |
|                   | 6       | 2437           |                 | 19.80               | 20.00   |
|                   | 9       | 2452           |                 | 19.83               | 20.00   |
| 802.11ac<br>VHT20 | 1       | 2412           | MCS0            | 18.75               | 20.00   |
|                   | 6       | 2437           |                 | 18.69               | 20.00   |
|                   | 11      | 2462           |                 | 18.78               | 20.00   |
| 802.11ac<br>VHT40 | 3       | 2422           | MCS0            | 18.99               | 20.00   |
|                   | 6       | 2437           |                 | 18.56               | 20.00   |
|                   | 9       | 2452           |                 | 18.91               | 20.00   |



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| WIFI 5G Ant                         |                |         |                 |                     |         |
|-------------------------------------|----------------|---------|-----------------|---------------------|---------|
| 5GHz                                |                | Channel | Frequency (MHz) | Average Power (dBm) | Tune up |
| 5GHz U-NII-1&2A<br>(5.15-5.35GHzHz) | 802.11a        | 36      | 5180            | 6.72                | 8.00    |
|                                     |                | 52      | 5260            | 7.40                | 8.00    |
|                                     |                | 64      | 5320            | 7.72                | 8.00    |
|                                     | 802.11n HT20   | 36      | 5180            | 7.44                | 8.00    |
|                                     |                | 52      | 5260            | 6.36                | 8.00    |
|                                     |                | 64      | 5320            | 6.23                | 8.00    |
|                                     | 802.11n HT40   | 38      | 5190            | 7.32                | 8.00    |
|                                     |                | 54      | 5270            | 6.83                | 8.00    |
|                                     |                | 62      | 5310            | 6.83                | 8.00    |
|                                     | 802.11ac VHT20 | 36      | 5180            | 7.44                | 8.00    |
|                                     |                | 52      | 5260            | 6.36                | 8.00    |
|                                     |                | 64      | 5320            | 6.23                | 8.00    |
|                                     | 802.11ac VHT40 | 38      | 5190            | 7.32                | 8.00    |
|                                     |                | 54      | 5270            | 6.83                | 8.00    |
|                                     |                | 62      | 5310            | 6.82                | 8.00    |
|                                     | 802.11ac VHT80 | 42      | 5210            | 7.75                | 8.00    |
|                                     |                | 58      | 5290            | 7.38                | 8.00    |
|                                     | 802.11ax HE20  | 36      | 5180            | 6.09                | 7.00    |
|                                     |                | 52      | 5260            | 6.14                | 7.00    |
|                                     |                | 64      | 5320            | 5.67                | 7.00    |
|                                     | 802.11ax HE40  | 38      | 5190            | 6.37                | 7.00    |
|                                     |                | 54      | 5270            | 6.17                | 7.00    |
|                                     |                | 62      | 5310            | 5.96                | 7.00    |
|                                     | 802.11ax HE80  | 42      | 5210            | 6.76                | 7.00    |
|                                     |                | 58      | 5290            | 5.70                | 7.00    |
| 5GHz UNII-2C<br>(5.47-5.725GHzHz)   | 802.11a        | 100     | 5500            | 6.90                | 8.00    |
|                                     |                | 120     | 5600            | 7.27                | 8.00    |
|                                     |                | 140     | 5700            | 7.27                | 8.00    |
|                                     | 802.11n HT20   | 100     | 5500            | 5.58                | 7.00    |
|                                     |                | 120     | 5600            | 6.27                | 7.00    |
|                                     |                | 140     | 5700            | 5.44                | 7.00    |
|                                     | 802.11n HT40   | 102     | 5510            | 6.33                | 8.00    |
|                                     |                | 118     | 5590            | 6.41                | 8.00    |
|                                     |                | 134     | 5670            | 6.18                | 8.00    |
|                                     | 802.11ac VHT20 | 100     | 5500            | 5.58                | 7.00    |
|                                     |                | 120     | 5600            | 6.27                | 7.00    |
|                                     |                | 140     | 5700            | 5.44                | 7.00    |
|                                     | 802.11ac VHT40 | 102     | 5510            | 6.33                | 8.00    |
|                                     |                | 118     | 5590            | 6.41                | 8.00    |
|                                     |                | 134     | 5670            | 6.18                | 8.00    |
|                                     | 802.11ac VHT80 | 106     | 5530            | 7.66                | 8.00    |
|                                     |                | 122     | 5610            | 7.57                | 8.00    |
|                                     | 802.11ax HE20  | 100     | 5500            | 6.36                | 8.00    |
|                                     |                | 120     | 5600            | 7.47                | 8.00    |
|                                     |                | 140     | 5700            | 7.19                | 8.00    |
|                                     | 802.11ax HE40  | 102     | 5510            | 5.43                | 7.00    |
|                                     |                | 118     | 5590            | 5.55                | 7.00    |
|                                     |                | 134     | 5670            | 7.09                | 7.00    |
|                                     | 802.11ax HE80  | 106     | 5530            | 6.26                | 7.00    |
|                                     |                | 122     | 5610            | 6.58                | 7.00    |
| 5GHz UNII-3<br>(5.725-5.85GHzHz)    | 802.11a        | 149     | 5745            | 7.97                | 8.00    |
|                                     |                | 157     | 5785            | 7.60                | 8.00    |
|                                     |                | 165     | 5825            | 7.10                | 8.00    |



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|--|----------------|-----|------|------|-------|
|  | 802.11n HT20   | 149 | 5745 | 7.85 | 8.00  |
|  |                | 157 | 5785 | 7.42 | 8.00  |
|  |                | 165 | 5825 | 7.18 | 8.00  |
|  | 802.11n HT40   | 151 | 5755 | 8.25 | 9.00  |
|  |                | 159 | 5795 | 7.82 | 9.00  |
|  | 802.11ac VHT20 | 149 | 5745 | 7.85 | 8.00  |
|  |                | 157 | 5785 | 7.42 | 8.00  |
|  |                | 165 | 5825 | 7.18 | 8.00  |
|  | 802.11ac VHT40 | 151 | 5755 | 8.25 | 9.00  |
|  |                | 159 | 5795 | 7.82 | 9.00  |
|  | 802.11ac VHT80 | 155 | 5775 | 9.49 | 10.00 |
|  | 802.11ax HE20  | 149 | 5745 | 7.27 | 8.00  |
|  |                | 157 | 5785 | 6.94 | 8.00  |
|  |                | 165 | 5825 | 6.66 | 8.00  |
|  | 802.11ax HE40  | 151 | 5755 | 7.62 | 9.00  |
|  |                | 159 | 5795 | 7.37 | 9.00  |
|  | 802.11ax HE80  | 155 | 5775 | 9.07 | 9.00  |



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## 2 Conducted Power of Bluetooth

|        |               | Average Conducted Power(dBm) |      |      | Tune up |
|--------|---------------|------------------------------|------|------|---------|
| Band   | Channel       | 0                            | 39   | 78   |         |
| BT     | GFSK          | 2.63                         | 2.52 | 3.15 | 3.50    |
|        | $\pi/4$ DQPSK | 1.43                         | 1.58 | 1.73 | 2.50    |
|        | 8DPSK         | 1.44                         | 1.60 | 1.74 | 2.50    |
| Band   | Channel       | 0                            | 19   | 39   | Tune up |
| BLE 1M | GFSK          | 0.81                         | 0.96 | 1.13 | 1.50    |
| BLE 2M | GFSK          | 0.86                         | 1.01 | 1.16 | 1.50    |