



REPORT No.: SZ23010190S01

## Annex E Conducted Power

**Note:**

Conducted power unit: dBm

The target power was recorded in the manufacture document.



| Band 2 (1900MHz Band) (dBm) |            |         |           |             |                |              |                     |
|-----------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| Part 24E                    |            |         |           |             |                |              |                     |
| BW [MHz]                    | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                     |            |         |           | 18700       | 18900          | 19100        |                     |
| Frequency (MHz)             |            |         |           | 1860        | 1880           | 1900         |                     |
| 20                          | 16QAM      | 1       | 0         | 21.93       | 22.02          | 21.95        |                     |
| 20                          | 16QAM      | 1       | 49        | 21.90       | 22.00          | 21.94        | 23                  |
| 20                          | 16QAM      | 1       | 99        | 21.91       | 21.98          | 21.96        |                     |
| 20                          | 16QAM      | 50      | 0         | 21.07       | 21.15          | 21.05        |                     |
| 20                          | 16QAM      | 50      | 24        | 21.06       | 21.13          | 21.12        | 22                  |
| 20                          | 16QAM      | 50      | 50        | 21.03       | 21.11          | 21.04        |                     |
| 20                          | 16QAM      | 100     | 0         | 21.03       | 21.08          | 21.01        |                     |
| Channel                     |            |         |           | 18675       | 18900          | 19125        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 1857.5      | 1880           | 1902.5       |                     |
| 15                          | 16QAM      | 1       | 0         | 21.85       | 21.93          | 21.86        |                     |
| 15                          | 16QAM      | 1       | 37        | 21.82       | 21.97          | 21.90        | 23                  |
| 15                          | 16QAM      | 1       | 74        | 21.88       | 21.93          | 21.88        |                     |
| 15                          | 16QAM      | 36      | 0         | 21.06       | 21.08          | 21.02        |                     |
| 15                          | 16QAM      | 36      | 20        | 20.98       | 21.04          | 21.11        | 22                  |
| 15                          | 16QAM      | 36      | 39        | 20.94       | 21.09          | 20.99        |                     |
| 15                          | 16QAM      | 75      | 0         | 20.96       | 21.01          | 20.92        |                     |
| Channel                     |            |         |           | 18650       | 18900          | 19150        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 1855        | 1880           | 1905         |                     |
| 10                          | 16QAM      | 1       | 0         | 21.87       | 21.93          | 21.88        |                     |
| 10                          | 16QAM      | 1       | 25        | 21.82       | 21.98          | 21.87        | 23                  |
| 10                          | 16QAM      | 1       | 49        | 21.88       | 21.93          | 21.95        |                     |
| 10                          | 16QAM      | 25      | 0         | 21.05       | 21.13          | 21.01        |                     |
| 10                          | 16QAM      | 25      | 12        | 21.01       | 21.09          | 21.05        | 22                  |
| 10                          | 16QAM      | 25      | 25        | 20.93       | 21.04          | 21.03        |                     |
| 10                          | 16QAM      | 50      | 0         | 20.98       | 21.03          | 20.96        |                     |
| Channel                     |            |         |           | 18625       | 18900          | 19175        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 1852.5      | 1880           | 1907.5       |                     |
| 5                           | 16QAM      | 1       | 0         | 21.90       | 21.96          | 21.85        |                     |
| 5                           | 16QAM      | 1       | 12        | 21.80       | 21.97          | 21.87        | 23                  |
| 5                           | 16QAM      | 1       | 24        | 21.87       | 21.90          | 21.94        |                     |
| 5                           | 16QAM      | 12      | 0         | 21.05       | 21.06          | 20.97        |                     |
| 5                           | 16QAM      | 12      | 7         | 21.01       | 21.12          | 21.02        | 22                  |
| 5                           | 16QAM      | 12      | 13        | 21.00       | 21.01          | 21.00        |                     |
| 5                           | 16QAM      | 25      | 0         | 20.95       | 21.00          | 20.93        |                     |
| Channel                     |            |         |           | 18615       | 18900          | 19185        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 1851.5      | 1880           | 1908.5       |                     |
| 3                           | 16QAM      | 1       | 0         | 21.92       | 21.93          | 21.85        |                     |
| 3                           | 16QAM      | 1       | 8         | 21.80       | 21.96          | 21.89        | 23                  |
| 3                           | 16QAM      | 1       | 14        | 21.83       | 21.89          | 21.94        |                     |
| 3                           | 16QAM      | 8       | 0         | 21.05       | 21.13          | 21.01        |                     |
| 3                           | 16QAM      | 8       | 4         | 21.04       | 21.09          | 21.03        | 22                  |
| 3                           | 16QAM      | 8       | 7         | 21.01       | 21.02          | 21.00        |                     |
| 3                           | 16QAM      | 15      | 0         | 20.95       | 21.00          | 20.99        |                     |
| Channel                     |            |         |           | 18607       | 18900          | 19193        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 1850.7      | 1880           | 1909.3       |                     |
| 1.4                         | 16QAM      | 1       | 0         | 21.92       | 21.93          | 21.90        |                     |
| 1.4                         | 16QAM      | 1       | 3         | 21.83       | 21.90          | 21.85        | 23                  |
| 1.4                         | 16QAM      | 1       | 5         | 21.86       | 21.94          | 21.92        |                     |
| 1.4                         | 16QAM      | 3       | 0         | 21.85       | 21.89          | 21.82        |                     |
| 1.4                         | 16QAM      | 3       | 1         | 21.87       | 21.95          | 21.91        | 22                  |
| 1.4                         | 16QAM      | 3       | 3         | 21.81       | 21.89          | 21.83        |                     |
| 1.4                         | 16QAM      | 6       | 0         | 20.95       | 21.04          | 20.96        |                     |

| Band 4 (AWS Band) (dBm)             |            |         |           |             |                |              |                     |
|-------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| Part 27L (only on channel required) |            |         |           |             |                |              |                     |
| BW [MHz]                            | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                             |            |         |           | 20050       | 20175          | 20300        |                     |
| Frequency (MHz)                     |            |         |           | 1720        | 1732.5         | 1745         |                     |
| 20                                  | 16QAM      | 1       | 0         | 21.86       | 21.92          | 21.89        |                     |
| 20                                  | 16QAM      | 1       | 49        | 21.83       | 21.90          | 21.87        | 23                  |
| 20                                  | 16QAM      | 1       | 99        | 21.81       | 21.88          | 21.84        |                     |
| 20                                  | 16QAM      | 50      | 0         | 21.32       | 21.38          | 21.31        |                     |
| 20                                  | 16QAM      | 50      | 24        | 21.28       | 21.35          | 21.25        | 22                  |
| 20                                  | 16QAM      | 50      | 50        | 21.24       | 21.31          | 21.26        |                     |
| 20                                  | 16QAM      | 100     | 0         | 21.26       | 21.33          | 21.28        |                     |
| Channel                             |            |         |           | 20025       | 20175          | 20325        | Tune-up limit (dBm) |
| Frequency (MHz)                     |            |         |           | 1717.5      | 1732.5         | 1747.5       |                     |
| 15                                  | 16QAM      | 1       | 0         | 21.83       | 21.84          | 21.84        |                     |
| 15                                  | 16QAM      | 1       | 37        | 21.74       | 21.80          | 21.81        | 23                  |
| 15                                  | 16QAM      | 1       | 74        | 21.73       | 21.83          | 21.76        |                     |
| 15                                  | 16QAM      | 36      | 0         | 21.25       | 21.31          | 21.25        |                     |
| 15                                  | 16QAM      | 36      | 20        | 21.24       | 21.31          | 21.20        | 22                  |
| 15                                  | 16QAM      | 36      | 39        | 21.21       | 21.28          | 21.17        |                     |
| 15                                  | 16QAM      | 75      | 0         | 21.25       | 21.25          | 21.21        |                     |
| Channel                             |            |         |           | 20000       | 20175          | 20350        | Tune-up limit (dBm) |
| Frequency (MHz)                     |            |         |           | 1715        | 1732.5         | 1750         |                     |
| 10                                  | 16QAM      | 1       | 0         | 21.80       | 21.90          | 21.86        |                     |
| 10                                  | 16QAM      | 1       | 25        | 21.82       | 21.85          | 21.77        | 23                  |
| 10                                  | 16QAM      | 1       | 49        | 21.76       | 21.86          | 21.81        |                     |
| 10                                  | 16QAM      | 25      | 0         | 21.31       | 21.36          | 21.23        |                     |
| 10                                  | 16QAM      | 25      | 12        | 21.20       | 21.29          | 21.20        | 22                  |
| 10                                  | 16QAM      | 25      | 25        | 21.17       | 21.26          | 21.21        |                     |
| 10                                  | 16QAM      | 50      | 0         | 21.19       | 21.29          | 21.19        |                     |
| Channel                             |            |         |           | 19975       | 20175          | 20375        | Tune-up limit (dBm) |
| Frequency (MHz)                     |            |         |           | 1712.5      | 1732.5         | 1752.5       |                     |
| 5                                   | 16QAM      | 1       | 0         | 21.80       | 21.91          | 21.83        |                     |
| 5                                   | 16QAM      | 1       | 12        | 21.76       | 21.83          | 21.83        | 23                  |
| 5                                   | 16QAM      | 1       | 24        | 21.72       | 21.79          | 21.83        |                     |
| 5                                   | 16QAM      | 12      | 0         | 21.23       | 21.34          | 21.28        |                     |
| 5                                   | 16QAM      | 12      | 7         | 21.26       | 21.31          | 21.18        | 22                  |
| 5                                   | 16QAM      | 12      | 13        | 21.18       | 21.22          | 21.16        |                     |
| 5                                   | 16QAM      | 25      | 0         | 21.25       | 21.28          | 21.19        |                     |
| Channel                             |            |         |           | 19965       | 20175          | 20385        | Tune-up limit (dBm) |
| Frequency (MHz)                     |            |         |           | 1711.5      | 1732.5         | 1753.5       |                     |
| 3                                   | 16QAM      | 1       | 0         | 21.79       | 21.83          | 21.84        |                     |
| 3                                   | 16QAM      | 1       | 8         | 21.79       | 21.81          | 21.82        | 23                  |
| 3                                   | 16QAM      | 1       | 14        | 21.73       | 21.84          | 21.79        |                     |
| 3                                   | 16QAM      | 8       | 0         | 21.22       | 21.29          | 21.24        |                     |
| 3                                   | 16QAM      | 8       | 4         | 21.27       | 21.25          | 21.21        | 22                  |
| 3                                   | 16QAM      | 8       | 7         | 21.16       | 21.28          | 21.23        |                     |
| 3                                   | 16QAM      | 15      | 0         | 21.16       | 21.31          | 21.26        |                     |
| Channel                             |            |         |           | 19957       | 20175          | 20393        | Tune-up limit (dBm) |
| Frequency (MHz)                     |            |         |           | 1710.7      | 1732.5         | 1754.3       |                     |
| 1.4                                 | 16QAM      | 1       | 0         | 21.80       | 21.87          | 21.83        |                     |
| 1.4                                 | 16QAM      | 1       | 3         | 21.76       | 21.80          | 21.83        | 23                  |
| 1.4                                 | 16QAM      | 1       | 5         | 21.74       | 21.84          | 21.82        |                     |
| 1.4                                 | 16QAM      | 3       | 0         | 21.77       | 21.82          | 21.72        |                     |
| 1.4                                 | 16QAM      | 3       | 1         | 21.70       | 21.84          | 21.74        | 22                  |
| 1.4                                 | 16QAM      | 3       | 3         | 21.68       | 21.72          | 21.75        |                     |
| 1.4                                 | 16QAM      | 6       | 0         | 21.22       | 21.23          | 21.20        |                     |



| Band 12 (700MHz Low Band) (dBm)<br>Part 27F(only on channel required) |            |         |           |             |                |              |                     |
|-----------------------------------------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]                                                              | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                                                               |            |         |           | 23090       | 23095          | 23130        |                     |
| Frequency (MHz)                                                       |            |         |           | 704         | 707.5          | 711          |                     |
| 10                                                                    | 16QAM      | 1       | 0         | 21.92       | 21.97          | 21.95        | 23                  |
| 10                                                                    | 16QAM      | 1       | 25        | 21.88       | 21.95          | 21.85        |                     |
| 10                                                                    | 16QAM      | 1       | 49        | 21.85       | 21.92          | 21.83        |                     |
| 10                                                                    | 16QAM      | 25      | 0         | 21.31       | 21.36          | 21.30        | 22                  |
| 10                                                                    | 16QAM      | 25      | 12        | 21.26       | 21.33          | 21.24        |                     |
| 10                                                                    | 16QAM      | 25      | 25        | 21.31       | 21.34          | 21.24        |                     |
| 10                                                                    | 16QAM      | 50      | 0         | 21.32       | 21.33          | 21.30        |                     |
| Channel                                                               |            |         |           | 23035       | 23095          | 23155        | Tune-up limit (dBm) |
| Frequency (MHz)                                                       |            |         |           | 701.5       | 707.5          | 713.5        |                     |
| 5                                                                     | 16QAM      | 1       | 0         | 21.86       | 21.92          | 21.89        | 23                  |
| 5                                                                     | 16QAM      | 1       | 12        | 21.81       | 21.94          | 21.81        |                     |
| 5                                                                     | 16QAM      | 1       | 24        | 21.83       | 21.83          | 21.73        |                     |
| 5                                                                     | 16QAM      | 12      | 0         | 21.30       | 21.29          | 21.21        | 22                  |
| 5                                                                     | 16QAM      | 12      | 7         | 21.19       | 21.30          | 21.15        |                     |
| 5                                                                     | 16QAM      | 12      | 13        | 21.24       | 21.24          | 21.20        |                     |
| 5                                                                     | 16QAM      | 25      | 0         | 21.30       | 21.26          | 21.22        |                     |
| Channel                                                               |            |         |           | 23025       | 23095          | 23165        | Tune-up limit (dBm) |
| Frequency (MHz)                                                       |            |         |           | 700.5       | 707.5          | 714.5        |                     |
| 3                                                                     | 16QAM      | 1       | 0         | 21.87       | 21.91          | 21.85        | 23                  |
| 3                                                                     | 16QAM      | 1       | 8         | 21.79       | 21.85          | 21.77        |                     |
| 3                                                                     | 16QAM      | 1       | 14        | 21.76       | 21.88          | 21.79        |                     |
| 3                                                                     | 16QAM      | 8       | 0         | 21.22       | 21.35          | 21.24        | 22                  |
| 3                                                                     | 16QAM      | 8       | 4         | 21.25       | 21.32          | 21.15        |                     |
| 3                                                                     | 16QAM      | 8       | 7         | 21.30       | 21.32          | 21.21        |                     |
| 3                                                                     | 16QAM      | 15      | 0         | 21.27       | 21.26          | 21.24        |                     |
| Channel                                                               |            |         |           | 23017       | 23095          | 23173        | Tune-up limit (dBm) |
| Frequency (MHz)                                                       |            |         |           | 699.7       | 707.5          | 715.3        |                     |
| 1.4                                                                   | 16QAM      | 1       | 0         | 21.90       | 21.90          | 21.86        | 23                  |
| 1.4                                                                   | 16QAM      | 1       | 3         | 21.82       | 21.91          | 21.78        |                     |
| 1.4                                                                   | 16QAM      | 1       | 5         | 21.75       | 21.90          | 21.74        |                     |
| 1.4                                                                   | 16QAM      | 3       | 0         | 21.75       | 21.78          | 21.78        |                     |
| 1.4                                                                   | 16QAM      | 3       | 1         | 21.68       | 21.77          | 21.66        |                     |
| 1.4                                                                   | 16QAM      | 3       | 3         | 21.77       | 21.76          | 21.73        |                     |
| 1.4                                                                   | 16QAM      | 6       | 0         | 21.29       | 21.25          | 21.23        |                     |

**2.4GHz WLAN ANT 1**

| 2.4GHz WLAN<br>ANT 1 | Mode              | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Power Setting | Duty Cycle % |
|----------------------|-------------------|---------|--------------------|------------------------|------------------|---------------|--------------|
|                      | 802.11b 1Mbps     | CH 1    | 2412               | 16.90                  | 18.00            | 16.00         | 97.86        |
|                      |                   | CH 6    | 2437               | 16.87                  | 18.00            | 16.00         |              |
|                      |                   | CH 11   | 2462               | 16.78                  | 18.00            | 16.00         |              |
|                      | 802.11g 6Mbps     | CH 1    | 2412               | 13.18                  | 14.00            | 13.00         | 87.82        |
|                      |                   | CH 6    | 2437               | 13.35                  | 14.00            | 13.00         |              |
|                      |                   | CH 11   | 2462               | 13.21                  | 14.00            | 13.00         |              |
|                      | 802.11n-HT20 MCS0 | CH 1    | 2412               | 11.20                  | 12.00            | 11.00         | 87.07        |
|                      |                   | CH 6    | 2437               | 11.49                  | 12.50            | 11.00         |              |
|                      |                   | CH 11   | 2462               | 11.25                  | 12.00            | 11.00         |              |

**5GHz WLAN ANT 1**

| 5.2GHz WLAN<br>ANT 1 | Mode              | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Power Setting | Duty Cycle % |
|----------------------|-------------------|---------|--------------------|------------------------|------------------|---------------|--------------|
|                      | 802.11a 6Mbps     | CH 36   | 5180               | 14.45                  | 15.50            | 15.00         | 87.18        |
|                      |                   | CH 44   | 5220               | 14.97                  | 16.00            | 15.00         |              |
|                      |                   | CH 48   | 5240               | 15.01                  | 16.00            | 15.00         |              |
|                      | 802.11n-HT20 MCS0 | CH 36   | 5180               | 13.18                  | 14.00            | 14.00         | 86.49        |
|                      |                   | CH 44   | 5220               | 13.73                  | 14.50            | 14.00         |              |
|                      |                   | CH 48   | 5240               | 13.65                  | 14.50            | 14.00         |              |
|                      | 802.11n-HT40 MCS0 | CH 36   | 5190               | 10.72                  | 11.50            | 14.00         | 77.11        |
|                      |                   | CH 46   | 5230               | 11.27                  | 12.50            | 14.00         |              |

**5GHz WLAN ANT 1**

| 5.8GHz WLAN<br>ANT 1 | Mode              | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Power Setting | Duty Cycle % |
|----------------------|-------------------|---------|--------------------|------------------------|------------------|---------------|--------------|
|                      | 802.11a 6Mbps     | CH 149  | 5745               | 14.02                  | 15.00            | 15.00         | 88.46        |
|                      |                   | CH 157  | 5785               | 13.79                  | 15.00            | 15.00         |              |
|                      |                   | CH 165  | 5825               | 14.25                  | 15.00            | 15.00         |              |
|                      | 802.11n-HT20 MCS0 | CH 149  | 5745               | 12.96                  | 14.00            | 14.00         | 86.39        |
|                      |                   | CH 157  | 5785               | 12.31                  | 13.00            | 14.00         |              |
|                      |                   | CH 165  | 5825               | 13.36                  | 14.50            | 14.00         |              |
|                      | 802.11n-HT40 MCS0 | CH 151  | 5755               | 10.27                  | 11.50            | 14.00         | 77.11        |
|                      |                   | CH 159  | 5795               | 10.44                  | 11.50            | 14.00         |              |

| Mode          | Channel | Frequency<br>(MHz) | Average power (dBm) |       |       |
|---------------|---------|--------------------|---------------------|-------|-------|
|               |         |                    | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402               | 6.95                | 4.66  | 4.47  |
|               | CH 39   | 2441               | 6.34                | 4.07  | 4.11  |
|               | CH 78   | 2480               | 6.41                | 3.84  | 4     |
| Tune-up Limit |         |                    | 7.5                 | 5.5   | 6     |
| Duty Cycle %  |         |                    | 77.04               | 77.07 | 77.12 |

| Mode          | Channel | Frequency<br>(MHz) | Average power (dBm) |  |
|---------------|---------|--------------------|---------------------|--|
|               |         |                    | GFSK                |  |
| LE            | CH 00   | 2402               | 1.54                |  |
|               | CH 19   | 2440               | 1.07                |  |
|               | CH 39   | 2480               | 1.00                |  |
| Tune-up Limit |         |                    | 2                   |  |
| Duty Cycle %  |         |                    | 63.2                |  |