

# FCC SAR TEST REPORT

FCC ID : A4RGBC0H  
Equipment : Phone  
Model Name : GBC0H  
Applicant : Google LLC  
1600 Amphitheatre Parkway,  
Mountain View, CA, 94043 USA  
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Nov. 25, 2025 and testing was started from Jan. 02, 2026 and completed on Apr. 10, 2026. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



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## History of this test report

[illegible]



## 1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for Google LLC, Phone, GBC0H, are as follows.

| Equipment Class  | Frequency Band | Highest SAR Summary                |                             |                               |                                      | Highest Simultaneous Transmission<br>1g SAR (W/kg) |
|------------------|----------------|------------------------------------|-----------------------------|-------------------------------|--------------------------------------|----------------------------------------------------|
|                  |                | Head<br>(Separation 0mm)           | Hotspot<br>(Separation 5mm) | Body-Worn<br>(Separation 5mm) | Product Specific<br>(Separation 0mm) |                                                    |
|                  |                | 1g SAR (W/kg)                      |                             |                               | 10g SAR (W/kg)                       |                                                    |
| Licensed         | GSM850         | 0.99                               | 0.79                        | 0.79                          |                                      | 1.59                                               |
|                  | GSM1900        | 0.41                               | 0.82                        | 0.73                          |                                      |                                                    |
|                  | WCDMA II       | 0.74                               | 0.85                        | 0.78                          |                                      |                                                    |
|                  | WCDMA IV       | 0.38                               | 0.84                        | 0.84                          |                                      |                                                    |
|                  | WCDMA V        | 0.78                               | 0.84                        | 0.84                          |                                      |                                                    |
|                  | LTE Band 7     | 0.99                               | 0.85                        | 0.78                          |                                      |                                                    |
|                  | LTE Band 12/17 | 0.91                               | 0.74                        | 0.74                          |                                      |                                                    |
|                  | LTE Band 13    | 0.90                               | 0.78                        | 0.78                          |                                      |                                                    |
|                  | LTE Band 14    | 0.91                               | 0.79                        | 0.79                          |                                      |                                                    |
|                  | LTE Band 2/25  | 0.90                               | 0.85                        | 0.99                          |                                      |                                                    |
|                  | LTE Band 5/26  | 0.99                               | 0.78                        | 0.78                          |                                      |                                                    |
|                  | LTE Band 30    | 0.73                               | 0.83                        | 0.79                          |                                      |                                                    |
|                  | LTE Band 4/66  | 0.99                               | 0.85                        | 0.98                          |                                      |                                                    |
|                  | LTE Band 71    | 0.96                               | 0.77                        | 0.78                          |                                      |                                                    |
|                  | LTE Band 38/41 | 0.99                               | 0.85                        | 0.91                          |                                      |                                                    |
|                  | LTE Band 48    | 0.99                               | 0.84                        | 0.99                          |                                      |                                                    |
|                  | FR1 n7         | 0.99                               | 0.80                        | 0.78                          |                                      |                                                    |
|                  | FR1 n12        | 0.93                               | 0.78                        | 0.78                          |                                      |                                                    |
|                  | FR1 n13        | 0.83                               | 0.78                        | 0.78                          |                                      |                                                    |
|                  | FR1 n14        | 0.90                               | 0.74                        | 0.78                          |                                      |                                                    |
|                  | FR1 n2/n25     | 0.99                               | 0.84                        | 0.97                          |                                      |                                                    |
|                  | FR1 n5/n26     | 0.82                               | 0.76                        | 0.76                          |                                      |                                                    |
|                  | FR1 n30        | 0.71                               | 0.81                        | 0.79                          | 1.32                                 |                                                    |
|                  | FR1 n66        | 0.97                               | 0.84                        | 0.99                          |                                      |                                                    |
|                  | FR1 n70        | 0.98                               | 0.83                        | 0.93                          |                                      |                                                    |
|                  | FR1 n71        | 0.87                               | 0.72                        | 0.78                          |                                      |                                                    |
|                  | FR1 n38/n41    | 0.96                               | 0.84                        | 0.89                          | 1.18                                 |                                                    |
|                  | FR1 n48        | 0.99                               | 0.84                        | 0.99                          | 1.73                                 |                                                    |
|                  | FR1 n77/n78    | 0.93                               | 0.83                        | 0.89                          |                                      |                                                    |
|                  | NTN Band 23    |                                    |                             |                               | 2.45                                 |                                                    |
|                  | NTN Band 255   |                                    |                             |                               | 2.49                                 |                                                    |
| DTS              | 2.4GHz WLAN    | 0.77                               | 0.20                        | 0.74                          |                                      | 1.59                                               |
| NII              | 5GHz WLAN      | 0.74                               | 0.25                        | 0.77                          | 0.90                                 | 1.59                                               |
| 6CD/6VL          | 6GHz WLAN      | 0.63                               | 0.25                        | 0.79                          | 0.91                                 | 1.59                                               |
| DSS              | Bluetooth      | 0.25                               | 0.48                        | 1.12                          |                                      | 1.59                                               |
| DTS              | Thread         | 0.23                               | 0.31                        | 1.12                          |                                      | 1.59                                               |
| DXX              | NFC            |                                    |                             |                               | 0.01                                 |                                                    |
| Equipment Class  | Frequency Band | Reported IPD (mW/cm <sup>2</sup> ) |                             |                               |                                      |                                                    |
| 5GM              | 6GHz WLAN      | 0.75                               |                             |                               |                                      |                                                    |
| Date of Testing: |                | 2026/01/02 ~ 2026/04/10            |                             |                               |                                      |                                                    |

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Extremity 10g SAR) specified in FCC 47 CFR part 2 (2.1093), Human Exposure to RF Radiation Limits (1.0 mW/cm<sup>2</sup>=10 W/m<sup>2</sup>) specified in FCC 47 CFR part 1.1310 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

**Reviewed by: Jason Wang**  
**Report Producer: Carlie Tsai**



## 2. Equipment Under Test (EUT) Information

### 2.1 General Information

| Product Feature & Specification         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment Name                          | Phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Model Name                              | GBC0H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| FCC ID                                  | A4RGBC0H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| S/N                                     | 63161FDDV0002X, 5B061FDDV0004W, 5B151FDDV0000C, 5B151FDDV00007, 5B151FDDV00008, 61041FDDV0000F, 61031FDDV000AZ, 61031FDDV000B7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Wireless Technology and Frequency Range | GSM850: 824.2 MHz ~ 848.8 MHz<br>GSM1900: 1850.2 MHz ~ 1909.8 MHz<br>WCDMA Band II: 1850 MHz ~ 1910 MHz<br>WCDMA Band IV: 1710 MHz ~ 1755 MHz<br>WCDMA Band V: 824 MHz ~ 849 MHz<br>LTE Band 2: 1850 MHz ~ 1910 MHz<br>LTE Band 4: 1710 MHz ~ 1755 MHz<br>LTE Band 5: 824 MHz ~ 849 MHz<br>LTE Band 7: 2500 MHz ~ 2570 MHz<br>LTE Band 12: 699 MHz ~ 716 MHz<br>LTE Band 13: 777 MHz ~ 787 MHz<br>LTE Band 14: 788 MHz ~ 798 MHz<br>LTE Band 17: 704 MHz ~ 716 MHz<br>LTE Band 25: 1850 MHz ~ 1915 MHz<br>LTE Band 26: 814 MHz ~ 849 MHz<br>LTE Band 30: 2305 MHz ~ 2315 MHz<br>LTE Band 38: 2570 MHz ~ 2620 MHz<br>LTE Band 41: 2496 MHz ~ 2690 MHz<br>LTE Band 48: 3550 MHz ~ 3700 MHz<br>LTE Band 66: 1710 MHz ~ 1780 MHz<br>LTE Band 71: 663 MHz ~ 698 MHz<br>5G NR n2 : 1850 MHz ~ 1910 MHz<br>5G NR n5 : 824 MHz ~ 849 MHz<br>5G NR n7 : 2500 MHz ~ 2570 MHz<br>5G NR n12 : 699 MHz ~ 716 MHz<br>5G NR n13 : 777 MHz ~ 787 MHz<br>5G NR n14 : 788 MHz ~ 798 MHz<br>5G NR n25 : 1850 MHz ~ 1915 MHz<br>5G NR n26 : 814 MHz ~ 849 MHz<br>5G NR n30 : 2305 MHz ~ 2315 MHz<br>5G NR n38 : 2570 MHz ~ 2620 MHz<br>5G NR n41 : 2496 MHz ~ 2690 MHz<br>5G NR n48 : 3550 MHz ~ 3700 MHz<br>5G NR n66 : 1710 MHz ~ 1780 MHz<br>5G NR n70 : 1695 MHz ~ 1710 MHz<br>5G NR n71 : 663 MHz ~ 698 MHz<br>5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz<br>5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz<br>5G NR n258: 24.25 GHz~24.45 GHz, 24.75GHz ~25.25GHz<br>5G NR n260: 37 GHz~40 GHz<br>5G NR n261: 27.5 GHz~28.35 GHz<br>NTN NB IoT B23: 2000 MHz ~2020 MHz<br>NTN NB IoT B255: 1626.5 MHz ~ 1660.5 MHz<br>WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz<br>WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz<br>WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz<br>WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz<br>WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz<br>WLAN 5.9 GHz Band: 5850 MHz ~ 5895 MHz<br>WLAN 6GHz Band: 5925 MHz ~ 6425 MHz, 6425 MHz~6525 MHz, 6525 MHz~6875 MHz, 6875 MHz~7125 MHz<br>Bluetooth: 2400 MHz ~ 2483.5 MHz<br>NFC: 13.56 MHz<br>WPC: 110 kHz ~ 148.5 kHz(Rx)<br>UWB: 6489.6 MHz, 7987.2 MHz<br>Thread: 2405 MHz ~ 2480 MHz |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mode</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GSM/GPRS/EGPRS<br>UMTS: RMC/AMR 12.2Kbps, HSDPA, HSUPA<br>LTE: QPSK, 16QAM, 64QAM, 256QAM<br>NTN: BPSK, QPSK<br>5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM<br>WLAN: 802.11a/b/g/n/ac/ax/be<br>HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160<br>Bluetooth BR/EDR/LE/CS<br>NFC: ASK<br>WPC: ASK<br>UWB: BPM-BPSK/HPSK<br>Thread: QPSK |
| <b>GSM / (E)GPRS Transfer mode</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.                                                                                                                                                                                                                       |
| <b>Remark:</b> <ol style="list-style-type: none"> <li>Dynamic antenna tuning mechanism is available at Ant. 0, for its &lt; 1GHz LTE and NR band, and the supplemental antenna tuner test results were included in appendix G, details are illustrated in the operational description.</li> <li>This device WLAN 2.4GHz / 5.2GHz / 5.8GHz and 6GHz VLP supports Hotspot operation and Bluetooth support tethering applications</li> <li>The device implements the power management and power reduction mechanism for SAR compliance at different exposure conditions (head, body, hotspot and product specific), the TAS feature will manage to ensure the power level not exceeding the associated power table. Also device support RTAs antenna group to analysis simultaneous transmission include in appendix F.</li> <li>The device implements power reduction mechanism for SAR compliance, the power reduction verification results are provided in Appendix E.</li> <li>The device supports uplink MIMO. Since the uplink MIMO antennas operate on different antenna groups, TAS validation is not required.</li> <li>Power Class 1.5 (PC1.5) supports only uplink MIMO configurations.</li> <li>The UWB output power is -11.04 dBm and it is less than 1mW and exempt from power density testing</li> </ol> |                                                                                                                                                                                                                                                                                                                                                                                          |

## 2.2 Maximum Tune-up Limit

### General Note:

- In this report, PC3, PC2, and PC1.5 refer to Power Class 3, Power Class 2, and Power Class 1.5, respectively.
- For each cellular band, the device utilizes multiple WWAN antennas. Antenna selection is dynamically managed based on real-time connection quality.
- The following table shows maximum output power configurations for various exposure conditions (output power index) with tune-up tolerance accounted. For TAS enabled bands, the values associate with Plimit plus the total uncertainty, or Pmax plus total uncertainty when the derived Plimit is higher than Pmax. In some frequency bands, for some power indexes which associate with the same power level, conducted power measurement for those only need to perform at once. Detail output power measurement refer to appendix D.
- The PC1.5 NR SAR was not required, due to PC1.5 operate in the time-averaged and burst transmission power is less than PC2, therefore, only PC2 was performed on the highest SAR test configuration in PC3, and use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%.
- Thread only transmits using antenna 3, and it cannot operate concurrently with Bluetooth transmission.
- PC1.5 supports only uplink MIMO configurations. In this mode, the target power per transmit chain is set equivalent to the PC2 standalone (SA) power level, such that the total combined output power across all chains achieves the aggregate power level defined for Power Class 1.5 (i.e., PC2 SA level + 3 dB).

| Antenna | Support Transmit Band                                                                                                                                                               |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ant 0   | GSM850/1900, UMTS B2/ B4/ B5, LTE B2/ B4/ B5/ B7/ B12/ B13/ B14/ B17/ B25/ B26/ B30 / B38/ B41 / B66 / B71<br>FR1 n2/ n5/ n7/ n12/ n13/ n14/ n25/ n26/ n30/ n38/ n41/ n66/ n70/ n71 |
| Ant 1   | GSM850, UMTS B5, LTE B2/ B4/ B5/ B12/ B13/ B14/ B17/ B25/ B26 / B38/ B41 / B48/ B66 / B71<br>FR1 n2/ n5/ n12/ n13/ n14/ n25/ n26/ n38/ n41/ n48/ n66/ n70/ n71/n77/n78              |
| Ant 2   | GSM1900, UMTS B2/ B4, LTE B2/ B4/ B7 / B25/ B30/ B38 / B41 / B66, FR1 n2/ n7/ n25/ n30/ n38/ n41/ n66/ n70                                                                          |
| Ant 5   | LTE B2/ B4/ B25/ B38 / B41 / B48/ B66, FR1 n2/ n25/ n38/ n41 / n48/ n66/ n70/n77/n78, NTN B23 / B255                                                                                |
| Ant 6   | LTE B48, FR1 n48/n77/n78                                                                                                                                                            |
| Ant 7   | LTE B48, FR1 n48/n77/n78                                                                                                                                                            |



| Maximum Transmit Burst Average Power (dBm) |       |      |         |                         |            |              |              |                         |                         |
|--------------------------------------------|-------|------|---------|-------------------------|------------|--------------|--------------|-------------------------|-------------------------|
| Wireless technology                        | Mode  | Mode | Antenna | Maximum Power Condition | Head       | Head         | Hotspot      | Body-worn/<br>Extremity | Body-worn/<br>Extremity |
|                                            |       |      |         |                         | Standalone | Simultaneous | Simultaneous | Standalone              | Simultaneous            |
|                                            |       |      |         |                         | ECI 2      | ECI 3        | ECI 6        | ECI 4                   | ECI 5                   |
| GSM                                        | B850  | 1TX  | Ant0    | 33.50                   | 33.50      | 33.50        | 31.40        | 31.40                   | 31.40                   |
| GPRS                                       | B850  | 1TX  | Ant0    | 33.50                   | 33.50      | 33.50        | 31.40        | 31.40                   | 31.40                   |
| GPRS                                       | B850  | 2TX  | Ant0    | 32.30                   | 32.30      | 32.30        | 28.40        | 28.40                   | 28.40                   |
| GPRS                                       | B850  | 3TX  | Ant0    | 31.30                   | 31.30      | 31.30        | 26.60        | 26.60                   | 26.60                   |
| GPRS                                       | B850  | 4TX  | Ant0    | 30.30                   | 30.30      | 30.30        | 25.40        | 25.40                   | 25.40                   |
| EGPRS                                      | B850  | 1TX  | Ant0    | 27.30                   | 27.30      | 27.30        | 27.30        | 27.30                   | 27.30                   |
| EGPRS                                      | B850  | 2TX  | Ant0    | 26.30                   | 26.30      | 26.30        | 26.30        | 26.30                   | 26.30                   |
| EGPRS                                      | B850  | 3TX  | Ant0    | 25.30                   | 25.30      | 25.30        | 25.30        | 25.30                   | 25.30                   |
| EGPRS                                      | B850  | 4TX  | Ant0    | 24.30                   | 24.30      | 24.30        | 24.30        | 24.30                   | 24.30                   |
| GSM                                        | B850  | 1TX  | Ant1    | 33.30                   | 32.40      | 31.70        | 33.30        | 33.30                   | 33.30                   |
| GPRS                                       | B850  | 1TX  | Ant1    | 33.30                   | 32.40      | 31.70        | 33.30        | 33.30                   | 33.30                   |
| GPRS                                       | B850  | 2TX  | Ant1    | 32.10                   | 29.40      | 28.70        | 31.90        | 32.10                   | 31.90                   |
| GPRS                                       | B850  | 3TX  | Ant1    | 31.10                   | 27.60      | 26.90        | 30.10        | 30.60                   | 30.10                   |
| GPRS                                       | B850  | 4TX  | Ant1    | 30.10                   | 26.40      | 25.70        | 28.90        | 29.40                   | 28.90                   |
| EGPRS                                      | B850  | 1TX  | Ant1    | 27.10                   | 27.10      | 27.10        | 27.10        | 27.10                   | 27.10                   |
| EGPRS                                      | B850  | 2TX  | Ant1    | 26.10                   | 26.10      | 26.10        | 26.10        | 26.10                   | 26.10                   |
| EGPRS                                      | B850  | 3TX  | Ant1    | 25.10                   | 25.10      | 25.10        | 25.10        | 25.10                   | 25.10                   |
| EGPRS                                      | B850  | 4TX  | Ant1    | 24.10                   | 24.10      | 24.10        | 24.10        | 24.10                   | 24.10                   |
| GSM                                        | B1900 | 1TX  | Ant2    | 30.40                   | 30.40      | 30.40        | 29.50        | 30.30                   | 29.50                   |
| GPRS                                       | B1900 | 1TX  | Ant2    | 30.40                   | 30.40      | 30.40        | 29.50        | 30.30                   | 29.50                   |
| GPRS                                       | B1900 | 2TX  | Ant2    | 28.90                   | 28.90      | 28.90        | 26.50        | 27.30                   | 26.50                   |
| GPRS                                       | B1900 | 3TX  | Ant2    | 28.40                   | 28.40      | 28.40        | 24.70        | 25.50                   | 24.70                   |
| GPRS                                       | B1900 | 4TX  | Ant2    | 27.40                   | 27.40      | 27.40        | 23.50        | 24.30                   | 23.50                   |
| EGPRS                                      | B1900 | 1TX  | Ant2    | 26.40                   | 26.40      | 26.40        | 26.40        | 26.40                   | 26.40                   |
| EGPRS                                      | B1900 | 2TX  | Ant2    | 25.40                   | 25.40      | 25.40        | 25.40        | 25.40                   | 25.40                   |
| EGPRS                                      | B1900 | 3TX  | Ant2    | 24.40                   | 24.40      | 24.40        | 24.40        | 24.40                   | 24.40                   |
| EGPRS                                      | B1900 | 4TX  | Ant2    | 23.40                   | 23.40      | 23.40        | 23.40        | 23.40                   | 23.40                   |
| GSM                                        | B1900 | 1TX  | Ant0    | 30.20                   | 30.20      | 30.20        | 24.40        | 25.80                   | 24.40                   |
| GPRS                                       | B1900 | 1TX  | Ant0    | 30.20                   | 30.20      | 30.20        | 24.40        | 25.80                   | 24.40                   |
| GPRS                                       | B1900 | 2TX  | Ant0    | 28.70                   | 28.70      | 28.70        | 21.40        | 22.80                   | 21.40                   |
| GPRS                                       | B1900 | 3TX  | Ant0    | 28.20                   | 28.20      | 28.20        | 19.60        | 21.00                   | 19.60                   |
| GPRS                                       | B1900 | 4TX  | Ant0    | 27.20                   | 27.20      | 27.20        | 18.40        | 19.80                   | 18.40                   |
| EGPRS                                      | B1900 | 1TX  | Ant0    | 26.20                   | 26.20      | 26.20        | 24.40        | 25.80                   | 24.40                   |
| EGPRS                                      | B1900 | 2TX  | Ant0    | 25.20                   | 25.20      | 25.20        | 21.40        | 22.80                   | 21.40                   |
| EGPRS                                      | B1900 | 3TX  | Ant0    | 24.20                   | 24.20      | 24.20        | 19.60        | 21.00                   | 19.60                   |
| EGPRS                                      | B1900 | 4TX  | Ant0    | 23.20                   | 23.20      | 23.20        | 18.40        | 19.80                   | 18.40                   |



| Maximum Transmit Burst Average Power (dBm) |      |         |         |                         |            |              |              |                         |                         |
|--------------------------------------------|------|---------|---------|-------------------------|------------|--------------|--------------|-------------------------|-------------------------|
| Wireless technology                        | Mode | Mode    | Antenna | Maximum Power Condition | Head       | Head         | Hotspot      | Body-worn/<br>Extremity | Body-worn/<br>Extremity |
|                                            |      |         |         |                         | Standalone | Simultaneous | Simultaneous | Standalone              | Simultaneous            |
|                                            |      |         |         |                         | ECI 2      | ECI 3        | ECI 6        | ECI 4                   | ECI 5                   |
| WCDMA                                      | B2   | RMC12.2 | Ant2    | 25.50                   | 25.50      | 25.40        | 19.30        | 20.20                   | 19.30                   |
| WCDMA                                      | B2   | RMC12.2 | Ant0    | 24.90                   | 24.90      | 24.90        | 15.00        | 15.90                   | 15.00                   |
| WCDMA                                      | B4   | RMC12.2 | Ant2    | 25.50                   | 25.50      | 25.50        | 20.70        | 21.90                   | 20.70                   |
| WCDMA                                      | B4   | RMC12.2 | Ant0    | 24.90                   | 24.90      | 24.90        | 15.20        | 16.60                   | 15.20                   |
| WCDMA                                      | B5   | RMC12.2 | Ant0    | 25.50                   | 25.50      | 25.50        | 21.50        | 21.50                   | 21.50                   |
| WCDMA                                      | B5   | RMC12.2 | Ant1    | 24.90                   | 22.70      | 22.00        | 24.90        | 24.90                   | 24.90                   |
| LTE                                        | B2   | PC3     | Ant2    | 25.00                   | 25.00      | 24.90        | 18.70        | 20.10                   | 18.70                   |
| LTE                                        | B2   | PC3     | Ant0    | 24.90                   | 24.90      | 24.90        | 15.20        | 16.00                   | 15.20                   |
| LTE                                        | B2   | PC3     | Ant1    | 25.00                   | 17.40      | 17.20        | 18.70        | 19.40                   | 18.70                   |
| LTE                                        | B2   | PC3     | Ant5    | 24.90                   | 17.90      | 16.70        | 17.20        | 18.60                   | 17.20                   |
| LTE                                        | B4   | PC3     | Ant2    | 25.00                   | 25.00      | 25.00        | 20.40        | 20.70                   | 20.40                   |
| LTE                                        | B4   | PC3     | Ant0    | 24.90                   | 24.90      | 24.90        | 14.90        | 16.90                   | 14.90                   |
| LTE                                        | B4   | PC3     | Ant1    | 25.00                   | 21.00      | 20.20        | 21.50        | 22.20                   | 21.50                   |
| LTE                                        | B4   | PC3     | Ant5    | 24.90                   | 18.60      | 17.30        | 17.40        | 18.80                   | 17.40                   |
| LTE                                        | B5   | PC3     | Ant0    | 25.00                   | 25.00      | 25.00        | 21.50        | 21.50                   | 21.50                   |
| LTE                                        | B5   | PC3     | Ant1    | 24.90                   | 23.80      | 23.00        | 24.90        | 24.90                   | 24.90                   |
| LTE                                        | B7   | PC3     | Ant2    | 25.00                   | 24.40      | 23.00        | 16.80        | 18.20                   | 16.80                   |
| LTE                                        | B7   | PC3     | Ant0    | 25.00                   | 25.00      | 25.00        | 16.40        | 18.10                   | 16.40                   |
| LTE                                        | B12  | PC3     | Ant0    | 25.00                   | 25.00      | 25.00        | 23.20        | 23.20                   | 23.20                   |
| LTE                                        | B12  | PC3     | Ant1    | 24.80                   | 24.80      | 24.40        | 24.80        | 24.80                   | 24.80                   |
| LTE                                        | B13  | PC3     | Ant0    | 25.00                   | 25.00      | 25.00        | 21.60        | 21.60                   | 21.60                   |
| LTE                                        | B13  | PC3     | Ant1    | 24.80                   | 24.80      | 24.40        | 24.80        | 24.80                   | 24.80                   |
| LTE                                        | B14  | PC3     | Ant0    | 25.00                   | 25.00      | 25.00        | 21.90        | 21.90                   | 21.90                   |
| LTE                                        | B14  | PC3     | Ant1    | 24.80                   | 24.80      | 24.40        | 24.80        | 24.80                   | 24.80                   |
| LTE                                        | B17  | PC3     | Ant0    | 25.00                   | 25.00      | 25.00        | 23.20        | 23.20                   | 23.20                   |
| LTE                                        | B17  | PC3     | Ant1    | 24.80                   | 24.80      | 24.40        | 24.80        | 24.80                   | 24.80                   |
| LTE                                        | B25  | PC3     | Ant2    | 25.00                   | 25.00      | 24.90        | 18.70        | 20.60                   | 18.70                   |
| LTE                                        | B25  | PC3     | Ant0    | 24.90                   | 24.90      | 24.90        | 15.20        | 16.00                   | 15.20                   |
| LTE                                        | B25  | PC3     | Ant1    | 25.00                   | 17.40      | 17.20        | 18.70        | 19.40                   | 18.70                   |
| LTE                                        | B25  | PC3     | Ant5    | 24.90                   | 17.90      | 16.70        | 17.20        | 18.60                   | 17.20                   |
| LTE                                        | B26  | PC3     | Ant0    | 25.00                   | 25.00      | 25.00        | 21.50        | 21.50                   | 21.50                   |
| LTE                                        | B26  | PC3     | Ant1    | 24.90                   | 23.80      | 23.00        | 24.90        | 24.90                   | 24.90                   |
| LTE                                        | B30  | PC3     | Ant2    | 24.50                   | 24.50      | 24.50        | 17.30        | 18.70                   | 17.30                   |
| LTE                                        | B30  | PC3     | Ant0    | 23.60                   | 23.60      | 23.60        | 15.30        | 18.20                   | 15.30                   |
| LTE                                        | B38  | PC3     | Ant2    | 25.00                   | 25.00      | 24.90        | 19.00        | 19.30                   | 19.00                   |
| LTE                                        | B38  | PC2     | Ant2    | 26.90                   | 26.90      | 26.50        | 20.60        | 20.90                   | 20.60                   |
| LTE                                        | B38  | PC3     | Ant0    | 24.90                   | 24.90      | 24.90        | 18.10        | 18.90                   | 18.10                   |
| LTE                                        | B38  | PC2     | Ant0    | 26.80                   | 26.80      | 26.80        | 19.70        | 20.50                   | 19.70                   |
| LTE                                        | B38  | PC3     | Ant1    | 25.00                   | 19.00      | 18.30        | 18.70        | 20.60                   | 18.70                   |
| LTE                                        | B38  | PC2     | Ant1    | 26.90                   | 20.60      | 19.90        | 20.30        | 22.20                   | 20.30                   |
| LTE                                        | B38  | PC3     | Ant5    | 24.90                   | 18.80      | 18.10        | 18.10        | 21.50                   | 18.10                   |
| LTE                                        | B38  | PC2     | Ant5    | 26.70                   | 20.40      | 19.70        | 19.70        | 23.10                   | 19.70                   |
| LTE                                        | B41  | PC3     | Ant2    | 25.00                   | 25.00      | 24.90        | 19.00        | 19.30                   | 19.00                   |
| LTE                                        | B41  | PC2     | Ant2    | 26.90                   | 26.90      | 26.50        | 20.60        | 20.90                   | 20.60                   |
| LTE                                        | B41  | PC3     | Ant0    | 24.90                   | 24.90      | 24.90        | 18.10        | 18.90                   | 18.10                   |
| LTE                                        | B41  | PC2     | Ant0    | 26.80                   | 26.80      | 26.80        | 19.70        | 20.50                   | 19.70                   |
| LTE                                        | B41  | PC3     | Ant1    | 25.00                   | 19.00      | 18.30        | 18.70        | 20.60                   | 18.70                   |
| LTE                                        | B41  | PC2     | Ant1    | 26.90                   | 20.60      | 19.90        | 20.30        | 22.20                   | 20.30                   |
| LTE                                        | B41  | PC3     | Ant5    | 25.00                   | 18.80      | 18.10        | 18.10        | 21.50                   | 18.10                   |
| LTE                                        | B41  | PC2     | Ant5    | 26.90                   | 20.40      | 19.70        | 19.70        | 23.10                   | 19.70                   |
| LTE                                        | B48  | PC3     | Ant6    | 22.00                   | 22.00      | 22.00        | 17.60        | 19.00                   | 17.60                   |
| LTE                                        | B48  | PC3     | Ant7    | 22.70                   | 22.70      | 22.70        | 18.40        | 19.80                   | 18.40                   |
| LTE                                        | B48  | PC3     | Ant1    | 22.60                   | 18.70      | 18.00        | 16.30        | 18.90                   | 16.30                   |
| LTE                                        | B48  | PC3     | Ant5    | 25.00                   | 20.90      | 20.20        | 20.10        | 20.80                   | 20.10                   |
| LTE                                        | B66  | PC3     | Ant2    | 25.00                   | 25.00      | 25.00        | 20.40        | 20.70                   | 20.40                   |
| LTE                                        | B66  | PC3     | Ant0    | 24.90                   | 24.90      | 24.90        | 14.90        | 16.90                   | 14.90                   |
| LTE                                        | B66  | PC3     | Ant1    | 25.00                   | 21.00      | 20.20        | 21.50        | 22.20                   | 21.50                   |
| LTE                                        | B66  | PC3     | Ant5    | 25.00                   | 18.60      | 17.30        | 17.40        | 18.80                   | 17.40                   |
| LTE                                        | B71  | PC3     | Ant0    | 25.00                   | 25.00      | 25.00        | 24.70        | 24.80                   | 24.70                   |
| LTE                                        | B71  | PC3     | Ant1    | 24.80                   | 24.10      | 23.40        | 24.80        | 24.80                   | 24.80                   |
| NR                                         | n2   | PC3     | Ant2    | 25.00                   | 25.00      | 25.00        | 19.10        | 19.80                   | 19.10                   |
| NR                                         | n2   | PC3     | Ant0    | 24.90                   | 24.90      | 24.90        | 15.00        | 16.00                   | 15.00                   |
| NR                                         | n2   | PC3     | Ant1    | 25.00                   | 17.90      | 17.70        | 18.70        | 19.40                   | 18.70                   |
| NR                                         | n2   | PC3     | Ant5    | 24.90                   | 18.60      | 17.90        | 17.90        | 19.30                   | 17.90                   |
| NR                                         | n5   | PC3     | Ant0    | 25.00                   | 25.00      | 25.00        | 21.70        | 21.70                   | 21.70                   |
| NR                                         | n5   | PC3     | Ant1    | 24.90                   | 23.80      | 23.80        | 24.90        | 24.90                   | 24.90                   |
| NR                                         | n7   | PC3     | Ant2    | 25.00                   | 24.60      | 23.20        | 16.80        | 17.80                   | 16.80                   |



# FCC SAR TEST REPORT

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|     |      |       |      |       |       |       |       |       |       |
|-----|------|-------|------|-------|-------|-------|-------|-------|-------|
| NR  | n7   | PC3   | Ant0 | 25.00 | 25.00 | 25.00 | 16.50 | 17.90 | 16.50 |
| NR  | n12  | PC3   | Ant0 | 25.00 | 25.00 | 25.00 | 23.80 | 23.80 | 23.80 |
| NR  | n12  | PC3   | Ant1 | 24.80 | 24.30 | 23.60 | 24.80 | 24.80 | 24.80 |
| NR  | n13  | PC3   | Ant0 | 25.00 | 25.00 | 25.00 | 22.30 | 22.30 | 22.30 |
| NR  | n13  | PC3   | Ant1 | 24.80 | 24.80 | 24.70 | 24.70 | 24.80 | 24.70 |
| NR  | n14  | PC3   | Ant0 | 25.00 | 25.00 | 25.00 | 22.40 | 22.60 | 22.40 |
| NR  | n14  | PC3   | Ant1 | 24.80 | 24.30 | 23.90 | 24.80 | 24.80 | 24.80 |
| NR  | n25  | PC3   | Ant2 | 25.00 | 25.00 | 25.00 | 19.10 | 19.80 | 19.10 |
| NR  | n25  | PC3   | Ant0 | 24.90 | 24.90 | 24.90 | 15.00 | 16.00 | 15.00 |
| NR  | n25  | PC3   | Ant1 | 25.00 | 17.90 | 17.70 | 18.70 | 19.40 | 18.70 |
| NR  | n25  | PC3   | Ant5 | 24.90 | 18.60 | 17.90 | 17.90 | 19.30 | 17.90 |
| NR  | n26  | PC3   | Ant0 | 25.00 | 25.00 | 25.00 | 21.70 | 21.70 | 21.70 |
| NR  | n26  | PC3   | Ant1 | 24.90 | 23.80 | 23.80 | 24.90 | 24.90 | 24.90 |
| NR  | n30  | PC3   | Ant2 | 24.50 | 24.50 | 24.50 | 17.20 | 19.20 | 17.20 |
| NR  | n30  | PC3   | Ant0 | 23.60 | 23.60 | 23.60 | 15.50 | 18.10 | 15.50 |
| NR  | n38  | PC3   | Ant2 | 25.00 | 24.80 | 23.60 | 17.20 | 18.60 | 17.20 |
| NR  | n38  | PC3   | Ant0 | 24.90 | 24.90 | 24.90 | 15.80 | 17.10 | 15.80 |
| NR  | n38  | PC3   | Ant1 | 25.00 | 18.30 | 17.60 | 18.20 | 21.00 | 18.20 |
| NR  | n38  | PC3   | Ant5 | 24.90 | 17.50 | 17.50 | 16.70 | 19.30 | 16.70 |
| NR  | n41  | PC3   | Ant2 | 25.00 | 24.80 | 23.60 | 17.20 | 18.60 | 17.20 |
| NR  | n41  | PC2   | Ant2 | 26.90 | 26.90 | 26.60 | 20.20 | 21.60 | 20.20 |
| NR  | n41  | PC1.5 | Ant2 | 26.90 | 26.90 | 26.60 | 20.20 | 21.60 | 20.20 |
| NR  | n41  | PC3   | Ant0 | 24.90 | 24.90 | 24.90 | 15.80 | 17.10 | 15.80 |
| NR  | n41  | PC2   | Ant0 | 26.80 | 26.80 | 26.80 | 18.80 | 20.10 | 18.80 |
| NR  | n41  | PC1.5 | Ant0 | 26.80 | 26.80 | 26.80 | 18.80 | 20.10 | 18.80 |
| NR  | n41  | PC3   | Ant1 | 25.00 | 18.30 | 17.60 | 18.20 | 21.00 | 18.20 |
| NR  | n41  | PC2   | Ant1 | 26.90 | 21.30 | 20.60 | 21.20 | 24.00 | 21.20 |
| NR  | n41  | PC1.5 | Ant1 | 26.90 | 21.30 | 20.60 | 21.20 | 24.00 | 21.20 |
| NR  | n41  | PC3   | Ant5 | 25.00 | 17.50 | 17.50 | 16.70 | 19.30 | 16.70 |
| NR  | n41  | PC2   | Ant5 | 26.90 | 20.50 | 20.50 | 19.70 | 22.30 | 19.70 |
| NR  | n41  | PC1.5 | Ant5 | 26.90 | 20.50 | 20.50 | 19.70 | 22.30 | 19.70 |
| NR  | n48  | PC3   | Ant6 | 22.00 | 22.00 | 22.00 | 15.30 | 17.60 | 15.30 |
| NR  | n48  | PC3   | Ant7 | 22.70 | 22.70 | 22.70 | 15.90 | 18.20 | 15.90 |
| NR  | n48  | PC3   | Ant1 | 22.60 | 20.30 | 19.50 | 17.50 | 20.40 | 17.50 |
| NR  | n48  | PC3   | Ant5 | 24.50 | 19.10 | 18.40 | 19.40 | 20.10 | 19.40 |
| NR  | n66  | PC3   | Ant2 | 25.00 | 25.00 | 25.00 | 20.30 | 21.00 | 20.30 |
| NR  | n66  | PC3   | Ant0 | 24.90 | 24.90 | 24.90 | 15.40 | 16.80 | 15.40 |
| NR  | n66  | PC3   | Ant1 | 25.00 | 20.30 | 19.60 | 21.70 | 22.40 | 21.70 |
| NR  | n66  | PC3   | Ant5 | 24.90 | 19.80 | 19.10 | 18.10 | 19.00 | 18.10 |
| NR  | n70  | PC3   | Ant2 | 24.80 | 24.80 | 24.80 | 21.00 | 21.00 | 21.00 |
| NR  | n70  | PC3   | Ant0 | 24.70 | 24.70 | 24.70 | 16.50 | 16.80 | 16.50 |
| NR  | n70  | PC3   | Ant1 | 24.80 | 22.40 | 21.70 | 24.00 | 24.70 | 24.00 |
| NR  | n70  | PC3   | Ant5 | 24.60 | 19.30 | 17.90 | 18.10 | 19.50 | 18.10 |
| NR  | n71  | PC3   | Ant0 | 25.00 | 25.00 | 25.00 | 23.80 | 24.20 | 23.80 |
| NR  | n71  | PC3   | Ant1 | 24.80 | 24.80 | 24.50 | 24.80 | 24.80 | 24.80 |
| NR  | n77  | PC3   | Ant6 | 25.00 | 25.00 | 22.50 | 14.00 | 15.40 | 14.00 |
| NR  | n77  | PC2   | Ant6 | 27.00 | 27.00 | 25.50 | 17.00 | 18.40 | 17.00 |
| NR  | n77  | PC1.5 | Ant6 | 27.00 | 27.00 | 25.50 | 17.00 | 18.40 | 17.00 |
| NR  | n77  | PC3   | Ant7 | 24.50 | 24.50 | 24.50 | 15.70 | 18.20 | 15.70 |
| NR  | n77  | PC2   | Ant7 | 26.50 | 26.50 | 26.50 | 18.70 | 21.20 | 18.70 |
| NR  | n77  | PC1.5 | Ant7 | 26.50 | 26.50 | 26.50 | 18.70 | 21.20 | 18.70 |
| NR  | n77  | PC3   | Ant1 | 25.00 | 15.60 | 14.90 | 14.30 | 17.30 | 14.30 |
| NR  | n77  | PC2   | Ant1 | 27.00 | 18.60 | 17.90 | 17.30 | 20.30 | 17.30 |
| NR  | n77  | PC1.5 | Ant1 | 27.00 | 18.60 | 17.90 | 17.30 | 20.30 | 17.30 |
| NR  | n77  | PC3   | Ant5 | 25.00 | 18.30 | 17.60 | 18.20 | 18.90 | 18.20 |
| NR  | n77  | PC2   | Ant5 | 27.00 | 21.30 | 20.60 | 21.20 | 21.90 | 21.20 |
| NR  | n77  | PC1.5 | Ant5 | 27.00 | 21.30 | 20.60 | 21.20 | 21.90 | 21.20 |
| NR  | n78  | PC3   | Ant6 | 25.00 | 25.00 | 22.50 | 14.00 | 15.40 | 14.00 |
| NR  | n78  | PC2   | Ant6 | 27.00 | 27.00 | 25.50 | 17.00 | 18.40 | 17.00 |
| NR  | n78  | PC1.5 | Ant6 | 27.00 | 27.00 | 25.50 | 17.00 | 18.40 | 17.00 |
| NR  | n78  | PC3   | Ant7 | 24.50 | 24.50 | 24.50 | 15.70 | 18.20 | 15.70 |
| NR  | n78  | PC2   | Ant7 | 26.50 | 26.50 | 26.50 | 18.70 | 21.20 | 18.70 |
| NR  | n78  | PC1.5 | Ant7 | 26.50 | 26.50 | 26.50 | 18.70 | 21.20 | 18.70 |
| NR  | n78  | PC3   | Ant1 | 25.00 | 15.60 | 14.90 | 14.30 | 17.30 | 14.30 |
| NR  | n78  | PC2   | Ant1 | 27.00 | 18.60 | 17.90 | 17.30 | 20.30 | 17.30 |
| NR  | n78  | PC1.5 | Ant1 | 27.00 | 18.60 | 17.90 | 17.30 | 20.30 | 17.30 |
| NR  | n78  | PC3   | Ant5 | 25.00 | 18.30 | 17.60 | 18.20 | 18.90 | 18.20 |
| NR  | n78  | PC2   | Ant5 | 27.00 | 21.30 | 20.60 | 21.20 | 21.90 | 21.20 |
| NR  | n78  | PC1.5 | Ant5 | 27.00 | 21.30 | 20.60 | 21.20 | 21.90 | 21.20 |
| NTN | B23  | PC3   | Ant5 | 25.00 |       |       |       | 24.10 |       |
| NTN | B255 | PC3   | Ant5 | 25.00 |       |       |       | 22.50 |       |

**< WLAN Maximum Power >**
**General Note:**

1. The device implements power management mechanisms to ensure WLAN SAR compliance under various exposure conditions and user scenarios. For each exposure condition, the transmit power index is selected based on the specific user scenario as tested and documented in Sections 14 of this report. Detailed information regarding the proprietary power management logic is provided in the operational description.
2. The designation "4+3(3)" refers to a 2TX transmission configuration in which antennas 4 and 3 are simultaneously active, and the SAR or output power measurement is specifically attributed to antenna 3.
3. The designation "4+3(4)" refers to a 2TX transmission configuration in which antennas 4 and 3 are simultaneously active, and the SAR or output power measurement is specifically attributed to antenna 4.

**< 2.4GHz WLAN >**

| Maximum Transmit Average Power (dBm) |         |                 |               |       |         |       |         |       |         |       |         |       |
|--------------------------------------|---------|-----------------|---------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| 2.4GHz Mode (CDD/SDM)                | Channel | Frequency (MHz) | Maximum power |       | Index 1 |       | Index 2 |       | Index 3 |       | Index 4 |       |
|                                      |         |                 | Ant 3         | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 |
| 802.11b (SISO)                       | 1       | 2412            | 22.50         | 22.50 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 6       | 2437            | 22.50         | 22.50 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 11      | 2462            | 22.50         | 22.50 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 12      | 2467            | 21.50         | 22.50 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 13      | 2472            | 17.50         | 21.00 | 17.50   | 17.50 | 11.00   | 11.00 | 17.50   | 18.00 | 10.50   | 10.50 |
| 802.11g (SISO)                       | 1       | 2412            | 20.00         | 20.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 6       | 2437            | 22.00         | 22.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 11      | 2462            | 20.00         | 20.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 12      | 2467            | 17.50         | 17.50 | 17.50   | 17.50 | 11.00   | 11.00 | 17.50   | 17.50 | 10.50   | 10.50 |
|                                      | 13      | 2472            | 15.00         | 15.00 | 15.00   | 15.00 | 11.00   | 11.00 | 15.00   | 15.00 | 10.50   | 10.50 |

| Maximum Transmit Average Power (dBm) |         |                 |               |       |         |       |         |       |         |       |         |       |
|--------------------------------------|---------|-----------------|---------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| 2.4GHz Mode (CDD/SDM)                | Channel | Frequency (MHz) | Maximum power |       | Index 1 |       | Index 2 |       | Index 3 |       | Index 4 |       |
|                                      |         |                 | Ant 3         | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 |
| 802.11b (MIMO)                       | 1       | 2412            | 22.50         | 22.50 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 6       | 2437            | 22.50         | 22.50 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 11      | 2462            | 22.50         | 22.50 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 12      | 2467            | 22.50         | 22.50 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 13      | 2472            | 18.00         | 18.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
| 802.11g (MIMO)                       | 1       | 2412            | 20.00         | 20.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 6       | 2437            | 22.00         | 22.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 11      | 2462            | 20.00         | 20.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 12      | 2467            | 17.50         | 17.50 | 17.50   | 17.50 | 11.00   | 11.00 | 17.50   | 17.50 | 10.50   | 10.50 |
|                                      | 13      | 2472            | 15.00         | 15.00 | 15.00   | 15.00 | 11.00   | 11.00 | 15.00   | 15.00 | 10.50   | 10.50 |
| 802.11n HT20 (MIMO)                  | 1       | 2412            | 19.50         | 19.50 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 6       | 2437            | 21.00         | 21.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 11      | 2462            | 19.00         | 19.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 12      | 2467            | 17.00         | 17.00 | 17.00   | 17.00 | 11.00   | 11.00 | 17.00   | 17.00 | 10.50   | 10.50 |
|                                      | 13      | 2472            | 15.00         | 15.00 | 15.00   | 15.00 | 11.00   | 11.00 | 15.00   | 15.00 | 10.50   | 10.50 |
| 802.11ac VHT20 (MIMO)                | 1       | 2412            | 19.50         | 19.50 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 6       | 2437            | 21.00         | 21.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 11      | 2462            | 19.00         | 19.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 12      | 2467            | 17.00         | 17.00 | 17.00   | 17.00 | 11.00   | 11.00 | 17.00   | 17.00 | 10.50   | 10.50 |
|                                      | 13      | 2472            | 15.00         | 15.00 | 15.00   | 15.00 | 11.00   | 11.00 | 15.00   | 15.00 | 10.50   | 10.50 |
| 802.11ax HE20 (MIMO)                 | 1       | 2412            | 19.00         | 19.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 6       | 2437            | 21.00         | 21.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 11      | 2462            | 18.50         | 18.50 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 12      | 2467            | 17.00         | 17.00 | 17.00   | 17.00 | 11.00   | 11.00 | 17.00   | 17.00 | 10.50   | 10.50 |
|                                      | 13      | 2472            | 15.50         | 15.50 | 15.50   | 15.50 | 11.00   | 11.00 | 15.50   | 15.50 | 10.50   | 10.50 |
| 802.11be EHT20 (MIMO)                | 1       | 2412            | 19.00         | 19.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 6       | 2437            | 21.00         | 21.00 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 11      | 2462            | 18.50         | 18.50 | 17.50   | 17.50 | 11.00   | 11.00 | 18.00   | 18.00 | 10.50   | 10.50 |
|                                      | 12      | 2467            | 17.00         | 17.00 | 17.00   | 17.00 | 11.00   | 11.00 | 17.00   | 17.00 | 10.50   | 10.50 |
|                                      | 13      | 2472            | 15.50         | 15.50 | 15.50   | 15.50 | 11.00   | 11.00 | 15.50   | 15.50 | 10.50   | 10.50 |

**< 5GHz WLAN >**

| 5.2GHz Mode (CDD/SDM) | Channel | Frequency (MHz) | Maximum Transmit Average Power (dBm) |       |         |       |         |       |         |       |         |       |
|-----------------------|---------|-----------------|--------------------------------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|                       |         |                 | Maximum power                        |       | Index 1 |       | Index 2 |       | Index 3 |       | Index 4 |       |
|                       |         |                 | Ant 3                                | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 |
| 802.11a (MIMO)        | 36      | 5180            | 18.50                                | 18.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 40      | 5200            | 18.50                                | 18.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 44      | 5220            | 18.50                                | 18.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 48      | 5240            | 18.50                                | 18.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11n HT20 (MIMO)   | 36      | 5180            | 18.50                                | 18.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 40      | 5200            | 18.50                                | 18.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 44      | 5220            | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 48      | 5240            | 18.50                                | 18.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11n HT40 (MIMO)   | 38      | 5190            | 17.00                                | 17.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.00   | 17.00 | 12.50   | 12.50 |
|                       | 46      | 5230            | 19.50                                | 19.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11ac VHT20 (MIMO) | 36      | 5180            | 18.50                                | 18.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 40      | 5200            | 18.50                                | 18.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 44      | 5220            | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 48      | 5240            | 18.50                                | 18.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11ac VHT40 (MIMO) | 38      | 5190            | 17.00                                | 17.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.00   | 17.00 | 12.50   | 12.50 |
|                       | 46      | 5230            | 19.50                                | 19.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11ac VHT80 (MIMO) | 42      | 5210            | 15.50                                | 15.50 | 15.00   | 15.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.50   | 12.50 |
| 802.11ax HE20 (MIMO)  | 36      | 5180            | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 40      | 5200            | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 44      | 5220            | 19.50                                | 19.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 48      | 5240            | 18.50                                | 18.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11ax HE40 (MIMO)  | 38      | 5190            | 17.50                                | 17.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 46      | 5230            | 20.00                                | 20.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11ax HE80 (MIMO)  | 42      | 5210            | 15.50                                | 15.50 | 15.00   | 15.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.50   | 12.50 |
| 802.11be EHT20 (MIMO) | 36      | 5180            | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 40      | 5200            | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 44      | 5220            | 19.50                                | 19.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 48      | 5240            | 18.50                                | 18.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11be EHT40 (MIMO) | 38      | 5190            | 17.50                                | 17.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                       | 46      | 5230            | 20.00                                | 20.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11be EHT80 (MIMO) | 42      | 5210            | 15.50                                | 15.50 | 15.00   | 15.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.50   | 12.50 |

| 5.3GHz<br>Mode<br>(CDD/SDM)  | Channel | Frequency<br>(MHz) | Maximum Transmit Average Power (dBm) |       |         |       |         |       |         |       |         |       |
|------------------------------|---------|--------------------|--------------------------------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|                              |         |                    | Maximum power                        |       | Index 1 |       | Index 2 |       | Index 3 |       | Index 4 |       |
|                              |         |                    | Ant 3                                | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 |
| 802.11a<br>(MIMO)            | 52      | 5260               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 56      | 5280               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 60      | 5300               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 64      | 5320               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11n<br>HT20<br>(MIMO)    | 52      | 5260               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 56      | 5280               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 60      | 5300               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 64      | 5320               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11n<br>HT40<br>(MIMO)    | 54      | 5270               | 20.00                                | 20.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 62      | 5310               | 17.00                                | 17.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.00   | 17.00 | 12.50   | 12.50 |
| 802.11ac<br>VHT20<br>(MIMO)  | 52      | 5260               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 56      | 5280               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 60      | 5300               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 64      | 5320               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11ac<br>VHT40<br>(MIMO)  | 54      | 5270               | 20.00                                | 20.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 62      | 5310               | 17.00                                | 17.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.00   | 17.00 | 12.50   | 12.50 |
| 802.11ac<br>VHT80<br>(MIMO)  | 58      | 5290               | 16.00                                | 16.00 | 15.00   | 15.00 | 11.50   | 11.50 | 16.00   | 16.00 | 12.50   | 12.50 |
| 802.11ac<br>VHT160<br>(MIMO) | 50      | 5250               | 13.00                                | 13.00 | 13.00   | 13.00 | 11.50   | 11.50 | 13.00   | 13.00 | 12.50   | 12.50 |
| 802.11ax<br>HE20<br>(MIMO)   | 52      | 5260               | 19.50                                | 19.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 56      | 5280               | 19.50                                | 19.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 60      | 5300               | 19.50                                | 19.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 64      | 5320               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11ax<br>HE40<br>(MIMO)   | 54      | 5270               | 20.00                                | 20.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 62      | 5310               | 16.50                                | 16.50 | 15.00   | 15.00 | 11.50   | 11.50 | 16.50   | 16.50 | 12.50   | 12.50 |
| 802.11ax<br>HE80<br>(MIMO)   | 58      | 5290               | 16.00                                | 16.00 | 15.00   | 15.00 | 11.50   | 11.50 | 16.00   | 16.00 | 12.50   | 12.50 |
| 802.11ax<br>HE160<br>(MIMO)  | 50      | 5250               | 13.00                                | 13.00 | 13.00   | 13.00 | 11.50   | 11.50 | 13.00   | 13.00 | 12.50   | 12.50 |
| 802.11be<br>EHT20<br>(MIMO)  | 52      | 5260               | 19.50                                | 19.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 56      | 5280               | 19.50                                | 19.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 60      | 5300               | 19.50                                | 19.50 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 64      | 5320               | 19.00                                | 19.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
| 802.11be<br>EHT40<br>(MIMO)  | 54      | 5270               | 20.00                                | 20.00 | 15.00   | 15.00 | 11.50   | 11.50 | 17.50   | 17.50 | 12.50   | 12.50 |
|                              | 62      | 5310               | 16.50                                | 16.50 | 15.00   | 15.00 | 11.50   | 11.50 | 16.50   | 16.50 | 12.50   | 12.50 |
| 802.11be<br>EHT80<br>(MIMO)  | 58      | 5290               | 16.00                                | 16.00 | 15.00   | 15.00 | 11.50   | 11.50 | 16.00   | 16.00 | 12.50   | 12.50 |
| 802.11be<br>EHT160<br>(MIMO) | 50      | 5250               | 13.00                                | 13.00 | 13.00   | 13.00 | 11.50   | 11.50 | 13.00   | 13.00 | 12.50   | 12.50 |



| 5.5GHz<br>Mode<br>(CDD/SDM)  | Channel | Frequency<br>(MHz) | Maximum Transmit Average Power (dBm) |       |         |       |         |       |         |       |         |       |
|------------------------------|---------|--------------------|--------------------------------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|                              |         |                    | Maximum power                        |       | Index 1 |       | Index 2 |       | Index 3 |       | Index 4 |       |
|                              |         |                    | Ant 3                                | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 |
| 802.11a<br>(MIMO)            | 100     | 5500               | 18.50                                | 18.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 104     | 5520               | 18.50                                | 18.50 |         |       |         |       |         |       |         |       |
|                              | 116     | 5580               | 18.50                                | 18.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 124     | 5620               | 18.50                                | 18.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 132     | 5660               | 18.50                                | 18.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 136     | 5680               | 18.50                                | 18.50 |         |       |         |       |         |       |         |       |
|                              | 140     | 5700               | 18.50                                | 18.50 |         |       |         |       |         |       |         |       |
| 802.11n<br>HT20<br>(MIMO)    | 144     | 5720               | 18.50                                | 18.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 100     | 5500               | 19.00                                | 19.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 104     | 5520               | 19.00                                | 19.00 |         |       |         |       |         |       |         |       |
|                              | 116     | 5580               | 19.00                                | 19.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 124     | 5620               | 19.00                                | 19.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 132     | 5660               | 19.00                                | 19.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 136     | 5680               | 19.00                                | 19.00 |         |       |         |       |         |       |         |       |
| 802.11n<br>HT40<br>(MIMO)    | 140     | 5700               | 19.00                                | 19.00 |         |       |         |       |         |       |         |       |
|                              | 144     | 5720               | 19.00                                | 19.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 102     | 5510               | 17.00                                | 17.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 110     | 5550               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 126     | 5630               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 134     | 5670               | 19.50                                | 19.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 142     | 5710               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
| 802.11ac<br>VHT20<br>(MIMO)  | 100     | 5500               | 19.00                                | 19.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 104     | 5520               | 19.00                                | 19.00 |         |       |         |       |         |       |         |       |
|                              | 116     | 5580               | 19.00                                | 19.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 124     | 5620               | 19.00                                | 19.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 132     | 5660               | 19.00                                | 19.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 136     | 5680               | 19.00                                | 19.00 |         |       |         |       |         |       |         |       |
|                              | 140     | 5700               | 19.00                                | 19.00 |         |       |         |       |         |       |         |       |
| 802.11ac<br>VHT40<br>(MIMO)  | 144     | 5720               | 19.00                                | 19.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 102     | 5510               | 17.00                                | 17.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 110     | 5550               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 126     | 5630               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 134     | 5670               | 19.50                                | 19.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 142     | 5710               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 106     | 5530               | 15.50                                | 15.50 | 15.50   | 15.50 | 9.50    | 9.50  | 15.50   | 15.50 | 12.50   | 12.50 |
| 802.11ac<br>VHT80<br>(MIMO)  | 122     | 5610               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 138     | 5690               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
| 802.11ac<br>VHT160<br>(MIMO) | 114     | 5570               | 13.00                                | 13.00 | 13.00   | 13.00 | 9.50    | 9.50  | 13.00   | 13.00 | 12.50   | 12.50 |
| 802.11ax<br>HE20<br>(MIMO)   | 100     | 5500               | 19.50                                | 19.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 104     | 5520               | 19.50                                | 19.50 |         |       |         |       |         |       |         |       |
|                              | 116     | 5580               | 19.50                                | 19.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 124     | 5620               | 19.50                                | 19.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 132     | 5660               | 19.50                                | 19.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 136     | 5680               | 18.50                                | 18.50 |         |       |         |       |         |       |         |       |
|                              | 140     | 5700               | 17.50                                | 17.50 |         |       |         |       |         |       |         |       |
| 802.11ax<br>HE40<br>(MIMO)   | 144     | 5720               | 19.00                                | 19.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 102     | 5510               | 16.50                                | 16.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 110     | 5550               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 126     | 5630               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 134     | 5670               | 19.50                                | 19.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 142     | 5710               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 106     | 5530               | 15.50                                | 15.50 | 15.50   | 15.50 | 9.50    | 9.50  | 15.50   | 15.50 | 12.50   | 12.50 |
| 802.11ax<br>HE80<br>(MIMO)   | 122     | 5610               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 138     | 5690               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
| 802.11ax<br>HE160<br>(MIMO)  | 114     | 5570               | 13.00                                | 13.00 | 13.00   | 13.00 | 9.50    | 9.50  | 13.00   | 13.00 | 12.50   | 12.50 |
| 802.11be<br>EHT20<br>(MIMO)  | 100     | 5500               | 19.50                                | 19.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 104     | 5520               | 19.50                                | 19.50 |         |       |         |       |         |       |         |       |
|                              | 116     | 5580               | 19.50                                | 19.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 124     | 5620               | 19.50                                | 19.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 132     | 5660               | 19.50                                | 19.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 136     | 5680               | 18.50                                | 18.50 |         |       |         |       |         |       |         |       |
|                              | 140     | 5700               | 17.50                                | 17.50 |         |       |         |       |         |       |         |       |
| 802.11be<br>EHT40<br>(MIMO)  | 144     | 5720               | 19.00                                | 19.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 102     | 5510               | 16.50                                | 16.50 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 110     | 5550               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |
|                              | 126     | 5630               | 20.00                                | 20.00 | 16.50   | 16.50 | 9.50    | 9.50  | 16.00   | 16.00 | 12.50   | 12.50 |

|                              |     |      |       |       |       |       |      |      |       |       |       |       |
|------------------------------|-----|------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|
|                              | 134 | 5670 | 19.50 | 19.50 | 16.50 | 16.50 | 9.50 | 9.50 | 16.00 | 16.00 | 12.50 | 12.50 |
|                              | 142 | 5710 | 20.00 | 20.00 | 16.50 | 16.50 | 9.50 | 9.50 | 16.00 | 16.00 | 12.50 | 12.50 |
| 802.11be<br>EHT80<br>(MIMO)  | 106 | 5530 | 15.50 | 15.50 | 15.50 | 15.50 | 9.50 | 9.50 | 15.50 | 15.50 | 12.50 | 12.50 |
|                              | 122 | 5610 | 20.00 | 20.00 | 16.50 | 16.50 | 9.50 | 9.50 | 16.00 | 16.00 | 12.50 | 12.50 |
|                              | 138 | 5690 | 20.00 | 20.00 | 16.50 | 16.50 | 9.50 | 9.50 | 16.00 | 16.00 | 12.50 | 12.50 |
| 802.11be<br>EHT160<br>(MIMO) | 114 | 5570 | 13.00 | 13.00 | 13.00 | 13.00 | 9.50 | 9.50 | 13.00 | 13.00 | 12.50 | 12.50 |

| Maximum Transmit Average Power (dBm) |         |                    |               |       |         |       |         |       |         |       |         |       |
|--------------------------------------|---------|--------------------|---------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| 5.8GHz<br>Mode<br>(CDD/SDM)          | Channel | Frequency<br>(MHz) | Maximum power |       | Index 1 |       | Index 2 |       | Index 3 |       | Index 4 |       |
|                                      |         |                    | Ant 3         | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 |
| 802.11a<br>(MIMO)                    | 149     | 5745               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 157     | 5785               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 165     | 5825               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
| 802.11n<br>HT20<br>(MIMO)            | 149     | 5745               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 157     | 5785               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 165     | 5825               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
| 802.11n<br>HT40<br>(MIMO)            | 151     | 5755               | 20.00         | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 159     | 5795               | 20.00         | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
| 802.11ac<br>VHT20<br>(MIMO)          | 149     | 5745               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 157     | 5785               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 165     | 5825               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
| 802.11ac<br>VHT40<br>(MIMO)          | 151     | 5755               | 20.00         | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 159     | 5795               | 20.00         | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
| 802.11ac<br>VHT80<br>(MIMO)          | 155     | 5775               | 20.00         | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
| 802.11ax<br>HE20<br>(MIMO)           | 149     | 5745               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 157     | 5785               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 165     | 5825               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
| 802.11ax<br>HE40<br>(MIMO)           | 151     | 5755               | 20.00         | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 159     | 5795               | 20.00         | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
| 802.11ax<br>HE80<br>(MIMO)           | 155     | 5775               | 20.00         | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
| 802.11be<br>EHT20<br>(MIMO)          | 149     | 5745               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 157     | 5785               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 165     | 5825               | 21.00         | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
| 802.11be<br>EHT40<br>(MIMO)          | 151     | 5755               | 20.00         | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
|                                      | 159     | 5795               | 20.00         | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |
| 802.11be<br>EHT80<br>(MIMO)          | 155     | 5775               | 20.00         | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 16.00   | 16.00 | 11.50   | 11.50 |

| 5.9GHz Mode (CDD/SDM)  | Channel | Frequency (MHz) | Maximum Transmit Average Power (dBm) |       |         |       |         |       |         |       |         |       |
|------------------------|---------|-----------------|--------------------------------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|                        |         |                 | Maximum power                        |       | Index 1 |       | Index 2 |       | Index 3 |       | Index 4 |       |
|                        |         |                 | Ant 3                                | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 |
| 802.11a (MIMO)         | 169     | 5845            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 173     | 5865            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 177     | 5885            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11n HT20 (MIMO)    | 169     | 5845            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 173     | 5865            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 177     | 5885            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11n HT40 (MIMO)    | 167     | 5835            | 20.00                                | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 175     | 5875            | 20.00                                | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11ac VHT20 (MIMO)  | 169     | 5845            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 173     | 5865            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 177     | 5885            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11ac VHT40 (MIMO)  | 167     | 5835            | 20.00                                | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 175     | 5875            | 20.00                                | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11ac VHT80 (MIMO)  | 171     | 5855            | 20.00                                | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11ac VHT160 (MIMO) | 163     | 5815            | 19.00                                | 19.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11ax HE20 (MIMO)   | 169     | 5845            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 173     | 5865            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 177     | 5885            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11ax HE40 (MIMO)   | 167     | 5835            | 20.00                                | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 175     | 5875            | 20.00                                | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11ax HE80 (MIMO)   | 171     | 5855            | 20.00                                | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11ax HE160 (MIMO)  | 163     | 5815            | 19.00                                | 19.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11be EHT20 (MIMO)  | 169     | 5845            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 173     | 5865            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 177     | 5885            | 21.00                                | 21.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11be EHT40 (MIMO)  | 167     | 5835            | 20.00                                | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
|                        | 175     | 5875            | 20.00                                | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11be EHT80 (MIMO)  | 171     | 5855            | 20.00                                | 20.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |
| 802.11be EHT160 (MIMO) | 163     | 5815            | 19.00                                | 19.00 | 17.00   | 17.00 | 11.50   | 11.50 | 15.50   | 15.50 | 12.00   | 12.00 |

**< 6GHz WLAN >**
**Standard Power (SP)**

| Maximum Transmit Average Power (dBm) |        |         |                 |               |       |
|--------------------------------------|--------|---------|-----------------|---------------|-------|
| 6GHz Mode (SDM/CDD)                  | Band   | Channel | Frequency (MHz) | Maximum power |       |
|                                      |        |         |                 | Ant 3         | Ant 4 |
| 802.11a (MIMO)                       | UNII 5 | 1       | 5955            | 21.00         | 21.00 |
|                                      | UNII 5 | 49      | 6195            | 21.00         | 21.00 |
|                                      | UNII 5 | 93      | 6415            | 21.00         | 21.00 |
|                                      | UNII 7 | 117     | 6535            | 21.00         | 21.00 |
|                                      | UNII 7 | 149     | 6695            | 21.00         | 21.00 |
|                                      | UNII 7 | 181     | 6855            | 21.00         | 21.00 |
| 802.11ax-HE20 (MIMO)                 | UNII 5 | 1       | 5955            | 21.00         | 21.00 |
|                                      | UNII 5 | 49      | 6195            | 21.00         | 21.00 |
|                                      | UNII 5 | 93      | 6415            | 21.00         | 21.00 |
|                                      | UNII 7 | 117     | 6535            | 21.00         | 21.00 |
|                                      | UNII 7 | 149     | 6695            | 21.00         | 21.00 |
|                                      | UNII 7 | 181     | 6855            | 21.00         | 21.00 |
| 802.11ax-HE40 (MIMO)                 | UNII 5 | 3       | 5965            | 20.00         | 20.00 |
|                                      | UNII 5 | 51      | 6205            | 20.00         | 20.00 |
|                                      | UNII 5 | 91      | 6405            | 20.00         | 20.00 |
|                                      | UNII 7 | 123     | 6565            | 20.00         | 20.00 |
|                                      | UNII 7 | 147     | 6685            | 20.00         | 20.00 |
|                                      | UNII 7 | 179     | 6845            | 20.00         | 20.00 |
| 802.11ax-HE80 (MIMO)                 | UNII 5 | 7       | 5985            | 20.00         | 20.00 |
|                                      | UNII 5 | 55      | 6225            | 20.00         | 20.00 |
|                                      | UNII 5 | 87      | 6385            | 20.00         | 20.00 |
|                                      | UNII 7 | 135     | 6625            | 20.00         | 20.00 |
|                                      | UNII 7 | 151     | 6705            | 20.00         | 20.00 |
|                                      | UNII 7 | 167     | 6785            | 20.00         | 20.00 |
| 802.11ax-HE160 (MIMO)                | UNII 5 | 15      | 6025            | 20.00         | 20.00 |
|                                      | UNII 5 | 47      | 6185            | 20.00         | 20.00 |
|                                      | UNII 5 | 79      | 6345            | 19.50         | 19.50 |
|                                      | UNII 7 | 143     | 6665            | 19.50         | 19.50 |
| 802.11be-EHT20 (MIMO)                | UNII 5 | 1       | 5955            | 21.00         | 21.00 |
|                                      | UNII 5 | 49      | 6195            | 21.00         | 21.00 |
|                                      | UNII 5 | 93      | 6415            | 21.00         | 21.00 |
|                                      | UNII 7 | 117     | 6535            | 21.00         | 21.00 |
|                                      | UNII 7 | 149     | 6695            | 21.00         | 21.00 |
|                                      | UNII 7 | 181     | 6855            | 21.00         | 21.00 |
| 802.11be-EHT40 (MIMO)                | UNII 5 | 3       | 5965            | 20.00         | 20.00 |
|                                      | UNII 5 | 51      | 6205            | 20.00         | 20.00 |
|                                      | UNII 5 | 91      | 6405            | 20.00         | 20.00 |
|                                      | UNII 7 | 123     | 6565            | 20.00         | 20.00 |
|                                      | UNII 7 | 147     | 6685            | 20.00         | 20.00 |
|                                      | UNII 7 | 179     | 6845            | 20.00         | 20.00 |
| 802.11be-EHT80 (MIMO)                | UNII 5 | 7       | 5985            | 20.00         | 20.00 |
|                                      | UNII 5 | 55      | 6225            | 20.00         | 20.00 |
|                                      | UNII 5 | 87      | 6385            | 20.00         | 20.00 |
|                                      | UNII 7 | 135     | 6625            | 20.00         | 20.00 |
|                                      | UNII 7 | 151     | 6705            | 20.00         | 20.00 |
|                                      | UNII 7 | 167     | 6785            | 20.00         | 20.00 |
| 802.11be-EHT160 (MIMO)               | UNII 5 | 15      | 6025            | 20.00         | 20.00 |
|                                      | UNII 5 | 47      | 6185            | 20.00         | 20.00 |
|                                      | UNII 5 | 79      | 6345            | 19.50         | 19.50 |
|                                      | UNII 7 | 143     | 6665            | 19.50         | 19.50 |

| 6GHz Mode (CDD/SDM)    | Band   | Channel | Frequency (MHz) | Maximum Transmit Average Power (dBm) |       |         |       |         |       |         |       |         |       |
|------------------------|--------|---------|-----------------|--------------------------------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|                        |        |         |                 | Maximum power                        |       | Index 1 |       | Index 2 |       | Index 3 |       | Index 4 |       |
|                        |        |         |                 | Ant 3                                | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 |
| 802.11a (MIMO)         | UNII 5 | 1       | 5955            | 21.00                                | 21.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 5 | 57      | 6235            | 21.00                                | 21.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 7 | 173     | 6815            | 21.00                                | 21.00 | 16.50   | 16.50 | 15.00   | 15.00 | 16.00   | 16.00 | 11.00   | 11.00 |
| 802.11ax HE20 (MIMO)   | UNII 5 | 1       | 5955            | 21.00                                | 21.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 5 | 57      | 6235            | 21.00                                | 21.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 7 | 173     | 6815            | 21.00                                | 21.00 | 16.50   | 16.50 | 15.00   | 15.00 | 16.00   | 16.00 | 11.00   | 11.00 |
| 802.11ax HE40 (MIMO)   | UNII 5 | 3       | 5965            | 20.00                                | 20.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 5 | 59      | 6245            | 20.00                                | 20.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 7 | 171     | 6805            | 20.00                                | 20.00 | 16.50   | 16.50 | 15.00   | 15.00 | 16.00   | 16.00 | 11.00   | 11.00 |
| 802.11ax HE80 (MIMO)   | UNII 5 | 7       | 5985            | 20.00                                | 20.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 5 | 71      | 6305            | 20.00                                | 20.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 7 | 167     | 6785            | 20.00                                | 20.00 | 16.50   | 16.50 | 15.00   | 15.00 | 16.00   | 16.00 | 11.00   | 11.00 |
| 802.11ax HE160 (MIMO)  | UNII 5 | 15      | 6025            | 20.00                                | 20.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 5 | 47      | 6185            | 20.00                                | 20.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 7 | 143     | 6665            | 19.50                                | 19.50 | 16.50   | 16.50 | 15.00   | 15.00 | 16.00   | 16.00 | 11.00   | 11.00 |
| 802.11be EHT20 (MIMO)  | UNII 5 | 1       | 5955            | 21.00                                | 21.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 5 | 57      | 6235            | 21.00                                | 21.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 7 | 173     | 6815            | 21.00                                | 21.00 | 16.50   | 16.50 | 15.00   | 15.00 | 16.00   | 16.00 | 11.00   | 11.00 |
| 802.11be EHT40 (MIMO)  | UNII 5 | 3       | 5965            | 20.00                                | 20.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 5 | 59      | 6245            | 20.00                                | 20.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 7 | 171     | 6805            | 20.00                                | 20.00 | 16.50   | 16.50 | 15.00   | 15.00 | 16.00   | 16.00 | 11.00   | 11.00 |
| 802.11be EHT80 (MIMO)  | UNII 5 | 7       | 5985            | 20.00                                | 20.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 5 | 71      | 6305            | 20.00                                | 20.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 7 | 167     | 6785            | 20.00                                | 20.00 | 16.50   | 16.50 | 15.00   | 15.00 | 16.00   | 16.00 | 11.00   | 11.00 |
| 802.11be EHT160 (MIMO) | UNII 5 | 15      | 6025            | 20.00                                | 20.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 5 | 47      | 6185            | 20.00                                | 20.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                        | UNII 7 | 143     | 6665            | 19.50                                | 19.50 | 16.50   | 16.50 | 15.00   | 15.00 | 16.00   | 16.00 | 11.00   | 11.00 |

**Low Power Indoor (LPI)**

| Maximum Transmit Average Power (dBm) |        |         |                 |               |       |               |       |
|--------------------------------------|--------|---------|-----------------|---------------|-------|---------------|-------|
| 6GHz Mode (SDM/CDD)                  | Band   | Channel | Frequency (MHz) | SDM           |       | CDD           |       |
|                                      |        |         |                 | Maximum power |       | Maximum power |       |
|                                      |        |         |                 | Ant 3         | Ant 4 | Ant 3         | Ant 4 |
| 802.11a (MIMO)                       | UNII 5 | 1       | 5955            | 10.50         | 10.50 | 6.00          | 6.00  |
|                                      | UNII 5 | 49      | 6195            | 10.50         | 10.50 | 6.00          | 6.00  |
|                                      | UNII 5 | 93      | 6415            | 10.50         | 10.50 | 6.00          | 6.00  |
|                                      | UNII 6 | 97      | 6435            | 7.50          | 7.50  | 7.50          | 7.50  |
|                                      | UNII 6 | 105     | 6475            | 9.50          | 9.50  | 7.50          | 7.50  |
|                                      | UNII 6 | 113     | 6515            | 7.50          | 7.50  | 7.50          | 7.50  |
|                                      | UNII 7 | 117     | 6535            | 10.50         | 10.50 | 7.00          | 7.00  |
|                                      | UNII 7 | 149     | 6695            | 10.50         | 10.50 | 7.00          | 7.00  |
|                                      | UNII 7 | 181     | 6855            | 8.00          | 8.00  | 7.00          | 7.00  |
|                                      | UNII 7 | 185     | 6875            | 8.00          | 8.00  | 7.00          | 7.00  |
|                                      | UNII 8 | 189     | 6895            | 12.00         | 12.00 | 8.00          | 8.00  |
| 802.11ax-HE20 (MIMO)                 | UNII 8 | 209     | 6995            | 12.00         | 12.00 | 7.00          | 7.00  |
|                                      | UNII 8 | 229     | 7095            | 12.00         | 12.00 | 7.00          | 7.00  |
|                                      | UNII 5 | 1       | 5955            | 11.00         | 11.00 | 6.50          | 6.50  |
|                                      | UNII 5 | 49      | 6195            | 11.00         | 11.00 | 6.50          | 6.50  |
|                                      | UNII 5 | 93      | 6415            | 11.00         | 11.00 | 6.50          | 6.50  |
|                                      | UNII 6 | 97      | 6435            | 10.50         | 10.50 | 7.50          | 7.50  |
|                                      | UNII 6 | 105     | 6475            | 10.50         | 10.50 | 7.00          | 7.00  |
|                                      | UNII 6 | 113     | 6515            | 10.50         | 10.50 | 7.00          | 7.00  |
|                                      | UNII 7 | 117     | 6535            | 11.00         | 11.00 | 7.50          | 7.50  |
|                                      | UNII 7 | 149     | 6695            | 11.00         | 11.00 | 7.50          | 7.50  |
|                                      | UNII 7 | 181     | 6855            | 8.50          | 8.50  | 7.50          | 7.50  |
| 802.11ax-HE40 (MIMO)                 | UNII 7 | 185     | 6875            | 8.50          | 8.50  | 7.50          | 7.50  |
|                                      | UNII 8 | 189     | 6895            | 12.50         | 12.50 | 8.50          | 8.50  |
|                                      | UNII 8 | 209     | 6995            | 12.00         | 12.00 | 8.00          | 8.00  |
|                                      | UNII 8 | 229     | 7095            | 12.00         | 12.00 | 8.00          | 8.00  |
|                                      | UNII 5 | 3       | 5965            | 13.50         | 13.50 | 10.50         | 10.50 |
|                                      | UNII 5 | 51      | 6205            | 13.50         | 13.50 | 10.50         | 10.50 |
|                                      | UNII 5 | 91      | 6405            | 13.50         | 13.50 | 10.50         | 10.50 |
|                                      | UNII 6 | 99      | 6445            | 12.50         | 12.50 | 11.50         | 11.50 |
|                                      | UNII 6 | 107     | 6485            | 13.00         | 13.00 | 11.50         | 11.50 |
|                                      | UNII 6 | 115     | 6525            | 12.50         | 12.50 | 11.50         | 11.50 |
|                                      | UNII 7 | 123     | 6565            | 14.00         | 14.00 | 11.00         | 11.00 |
| 802.11ax-HE80 (MIMO)                 | UNII 7 | 147     | 6685            | 14.00         | 14.00 | 11.00         | 11.00 |
|                                      | UNII 7 | 179     | 6845            | 14.00         | 14.00 | 9.00          | 9.00  |
|                                      | UNII 7 | 187     | 6885            | 14.00         | 14.00 | 9.00          | 9.00  |
|                                      | UNII 8 | 195     | 6925            | 15.50         | 15.50 | 12.00         | 12.00 |
|                                      | UNII 8 | 211     | 7005            | 15.50         | 15.50 | 12.00         | 12.00 |
|                                      | UNII 8 | 227     | 7085            | 15.50         | 15.50 | 12.00         | 12.00 |
|                                      | UNII 5 | 7       | 5985            | 16.50         | 16.50 | 13.50         | 13.50 |
|                                      | UNII 5 | 55      | 6225            | 16.50         | 16.50 | 13.50         | 13.50 |
|                                      | UNII 5 | 87      | 6385            | 16.50         | 16.50 | 13.50         | 13.50 |
|                                      | UNII 6 | 103     | 6465            | 16.00         | 16.00 | 14.00         | 14.00 |
|                                      | UNII 6 | 119     | 6545            | 15.50         | 15.50 | 14.00         | 14.00 |
| 802.11ax-HE160 (MIMO)                | UNII 7 | 135     | 6625            | 17.00         | 17.00 | 14.00         | 14.00 |
|                                      | UNII 7 | 151     | 6705            | 17.00         | 17.00 | 14.00         | 14.00 |
|                                      | UNII 7 | 167     | 6785            | 17.00         | 17.00 | 14.00         | 14.00 |
|                                      | UNII 7 | 183     | 6865            | 17.00         | 17.00 | 14.00         | 14.00 |
|                                      | UNII 8 | 199     | 6945            | 18.00         | 18.00 | 15.00         | 15.00 |
|                                      | UNII 8 | 215     | 7025            | 18.00         | 18.00 | 15.00         | 15.00 |
|                                      | UNII 5 | 15      | 6025            | 19.00         | 19.00 | 16.50         | 16.50 |
| 802.11be-EHT20 (MIMO)                | UNII 5 | 47      | 6185            | 19.00         | 19.00 | 16.50         | 16.50 |
|                                      | UNII 5 | 79      | 6345            | 19.00         | 19.00 | 16.50         | 16.50 |
|                                      | UNII 6 | 111     | 6505            | 17.50         | 17.50 | 17.00         | 17.00 |
|                                      | UNII 7 | 143     | 6665            | 18.50         | 18.50 | 17.00         | 17.00 |
|                                      | UNII 7 | 175     | 6825            | 18.50         | 18.50 | 17.00         | 17.00 |
|                                      | UNII 8 | 207     | 6985            | 17.00         | 17.00 | 17.00         | 17.00 |
| 802.11be-EHT20 (MIMO)                | UNII 5 | 1       | 5955            | 11.00         | 11.00 | 6.50          | 6.50  |
|                                      | UNII 5 | 49      | 6195            | 11.00         | 11.00 | 6.50          | 6.50  |
|                                      | UNII 5 | 93      | 6415            | 11.00         | 11.00 | 6.50          | 6.50  |
|                                      | UNII 6 | 97      | 6435            | 10.50         | 10.50 | 7.50          | 7.50  |
|                                      | UNII 6 | 105     | 6475            | 10.50         | 10.50 | 7.00          | 7.00  |
|                                      | UNII 6 | 113     | 6515            | 10.50         | 10.50 | 7.00          | 7.00  |
|                                      | UNII 7 | 117     | 6535            | 11.00         | 11.00 | 7.50          | 7.50  |
|                                      | UNII 7 | 149     | 6695            | 11.00         | 11.00 | 7.50          | 7.50  |
| 802.11be-EHT20 (MIMO)                | UNII 7 | 181     | 6855            | 8.50          | 8.50  | 7.50          | 7.50  |
|                                      | UNII 7 | 185     | 6875            | 8.50          | 8.50  | 7.50          | 7.50  |

|                           |        |     |      |       |       |       |       |
|---------------------------|--------|-----|------|-------|-------|-------|-------|
|                           | UNII 8 | 189 | 6895 | 12.50 | 12.50 | 8.50  | 8.50  |
|                           | UNII 8 | 209 | 6995 | 12.00 | 12.00 | 8.00  | 8.00  |
|                           | UNII 8 | 229 | 7095 | 12.00 | 12.00 | 8.00  | 8.00  |
| 802.11be-EHT40<br>(MIMO)  | UNII 5 | 3   | 5965 | 13.50 | 13.50 | 10.50 | 10.50 |
|                           | UNII 5 | 51  | 6205 | 13.50 | 13.50 | 10.50 | 10.50 |
|                           | UNII 5 | 91  | 6405 | 13.50 | 13.50 | 10.50 | 10.50 |
|                           | UNII 6 | 99  | 6445 | 12.50 | 12.50 | 11.50 | 11.50 |
|                           | UNII 6 | 107 | 6485 | 13.00 | 13.00 | 11.50 | 11.50 |
|                           | UNII 6 | 115 | 6525 | 12.50 | 12.50 | 11.50 | 11.50 |
|                           | UNII 7 | 123 | 6565 | 14.00 | 14.00 | 11.00 | 11.00 |
|                           | UNII 7 | 147 | 6685 | 14.00 | 14.00 | 11.00 | 11.00 |
|                           | UNII 7 | 179 | 6845 | 14.00 | 14.00 | 9.00  | 9.00  |
|                           | UNII 7 | 187 | 6885 | 14.00 | 14.00 | 9.00  | 9.00  |
|                           | UNII 8 | 195 | 6925 | 15.50 | 15.50 | 12.00 | 12.00 |
|                           | UNII 8 | 211 | 7005 | 15.50 | 15.50 | 12.00 | 12.00 |
|                           | UNII 8 | 227 | 7085 | 15.50 | 15.50 | 12.00 | 12.00 |
| 802.11be-EHT80<br>(MIMO)  | UNII 5 | 7   | 5985 | 16.50 | 16.50 | 13.50 | 13.50 |
|                           | UNII 5 | 55  | 6225 | 16.50 | 16.50 | 13.50 | 13.50 |
|                           | UNII 5 | 87  | 6385 | 16.50 | 16.50 | 13.50 | 13.50 |
|                           | UNII 6 | 103 | 6465 | 16.00 | 16.00 | 14.00 | 14.00 |
|                           | UNII 6 | 119 | 6545 | 15.50 | 15.50 | 14.00 | 14.00 |
|                           | UNII 7 | 135 | 6625 | 17.00 | 17.00 | 14.00 | 14.00 |
|                           | UNII 7 | 151 | 6705 | 17.00 | 17.00 | 14.00 | 14.00 |
|                           | UNII 7 | 167 | 6785 | 17.00 | 17.00 | 14.00 | 14.00 |
|                           | UNII 7 | 183 | 6865 | 17.00 | 17.00 | 14.00 | 14.00 |
|                           | UNII 8 | 199 | 6945 | 18.00 | 18.00 | 15.00 | 15.00 |
| 802.11be-EHT160<br>(MIMO) | UNII 8 | 215 | 7025 | 18.00 | 18.00 | 15.00 | 15.00 |
|                           | UNII 5 | 15  | 6025 | 19.00 | 19.00 | 16.50 | 16.50 |
|                           | UNII 5 | 47  | 6185 | 19.00 | 19.00 | 16.50 | 16.50 |
|                           | UNII 5 | 79  | 6345 | 19.00 | 19.00 | 16.50 | 16.50 |
|                           | UNII 6 | 111 | 6505 | 17.50 | 17.50 | 17.00 | 17.00 |
|                           | UNII 7 | 143 | 6665 | 18.50 | 18.50 | 17.00 | 17.00 |
|                           | UNII 7 | 175 | 6825 | 18.50 | 18.50 | 17.00 | 17.00 |
|                           | UNII 8 | 207 | 6985 | 17.00 | 17.00 | 17.00 | 17.00 |

| 6GHz<br>Mode<br>(CDD/SDM)    | Band   | Channel | Frequency<br>(MHz) | Maximum Transmit Average Power (dBm) |       |         |       |         |       |         |       |         |       |
|------------------------------|--------|---------|--------------------|--------------------------------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|                              |        |         |                    | Maximum power                        |       | Index 1 |       | Index 2 |       | Index 3 |       | Index 4 |       |
|                              |        |         |                    | Ant 3                                | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 |
| 802.11a<br>(MIMO)            | UNII 5 | 1       | 5955               | 10.50                                | 10.50 | 10.50   | 10.50 | 10.50   | 10.50 | 10.50   | 10.50 | 10.50   | 10.50 |
|                              | UNII 5 | 57      | 6235               | 10.50                                | 10.50 | 10.50   | 10.50 | 10.50   | 10.50 | 10.50   | 10.50 | 10.50   | 10.50 |
|                              | UNII 6 | 113     | 6515               | 7.50                                 | 7.50  | 7.50    | 7.50  | 7.50    | 7.50  | 7.50    | 7.50  | 7.50    | 7.50  |
|                              | UNII 7 | 173     | 6815               | 8.00                                 | 8.00  | 8.00    | 8.00  | 8.00    | 8.00  | 8.00    | 8.00  | 8.00    | 8.00  |
| 802.11ax<br>HE20<br>(MIMO)   | UNII 5 | 1       | 5955               | 11.00                                | 11.00 | 11.00   | 11.00 | 11.00   | 11.00 | 11.00   | 11.00 | 11.00   | 11.00 |
|                              | UNII 5 | 57      | 6235               | 11.00                                | 11.00 | 11.00   | 11.00 | 11.00   | 11.00 | 11.00   | 11.00 | 11.00   | 11.00 |
|                              | UNII 6 | 113     | 6515               | 10.50                                | 10.50 | 10.50   | 10.50 | 10.50   | 10.50 | 10.50   | 10.50 | 10.50   | 10.50 |
|                              | UNII 7 | 173     | 6815               | 8.50                                 | 8.50  | 8.50    | 8.50  | 8.50    | 8.50  | 8.50    | 8.50  | 8.50    | 8.50  |
| 802.11ax<br>HE40<br>(MIMO)   | UNII 5 | 3       | 5965               | 13.50                                | 13.50 | 13.50   | 13.50 | 13.50   | 13.50 | 13.50   | 13.50 | 12.00   | 12.00 |
|                              | UNII 5 | 59      | 6245               | 13.50                                | 13.50 | 13.50   | 13.50 | 13.50   | 13.50 | 13.50   | 13.50 | 12.00   | 12.00 |
|                              | UNII 6 | 107     | 6485               | 13.00                                | 13.00 | 13.00   | 13.00 | 13.00   | 13.00 | 13.00   | 13.00 | 10.50   | 10.50 |
|                              | UNII 7 | 171     | 6805               | 14.00                                | 14.00 | 14.00   | 14.00 | 14.00   | 14.00 | 14.00   | 14.00 | 11.00   | 11.00 |
| 802.11ax<br>HE80<br>(MIMO)   | UNII 8 | 227     | 7085               | 15.50                                | 15.50 | 15.50   | 15.50 | 12.00   | 12.00 | 15.00   | 15.00 | 10.00   | 10.00 |
|                              | UNII 5 | 7       | 5985               | 16.50                                | 16.50 | 16.50   | 16.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                              | UNII 5 | 71      | 6305               | 16.50                                | 16.50 | 16.50   | 16.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                              | UNII 6 | 119     | 6545               | 15.50                                | 15.50 | 15.50   | 15.50 | 14.50   | 14.50 | 15.50   | 15.50 | 10.50   | 10.50 |
| 802.11ax<br>HE160<br>(MIMO)  | UNII 7 | 167     | 6785               | 17.00                                | 17.00 | 16.50   | 16.50 | 15.00   | 15.00 | 16.00   | 16.00 | 11.00   | 11.00 |
|                              | UNII 8 | 215     | 7025               | 18.00                                | 18.00 | 17.00   | 17.00 | 12.00   | 12.00 | 15.00   | 15.00 | 10.00   | 10.00 |
|                              | UNII 5 | 15      | 6025               | 19.00                                | 19.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                              | UNII 5 | 47      | 6185               | 19.00                                | 19.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
| 802.11be<br>EHT20<br>(MIMO)  | UNII 6 | 111     | 6505               | 17.50                                | 17.50 | 17.50   | 17.50 | 14.50   | 14.50 | 17.00   | 17.00 | 10.50   | 10.50 |
|                              | UNII 7 | 143     | 6665               | 18.50                                | 18.50 | 16.50   | 16.50 | 15.00   | 15.00 | 16.00   | 16.00 | 11.00   | 11.00 |
|                              | UNII 8 | 207     | 6985               | 17.00                                | 17.00 | 17.00   | 17.00 | 12.00   | 12.00 | 15.00   | 15.00 | 10.00   | 10.00 |
|                              | UNII 5 | 1       | 5955               | 11.00                                | 11.00 | 11.00   | 11.00 | 11.00   | 11.00 | 11.00   | 11.00 | 11.00   | 11.00 |
| 802.11be<br>EHT40<br>(MIMO)  | UNII 5 | 57      | 6235               | 11.00                                | 11.00 | 11.00   | 11.00 | 11.00   | 11.00 | 11.00   | 11.00 | 11.00   | 11.00 |
|                              | UNII 6 | 113     | 6515               | 10.50                                | 10.50 | 10.50   | 10.50 | 10.50   | 10.50 | 10.50   | 10.50 | 10.50   | 10.50 |
|                              | UNII 7 | 173     | 6815               | 8.50                                 | 8.50  | 8.50    | 8.50  | 8.50    | 8.50  | 8.50    | 8.50  | 8.50    | 8.50  |
|                              | UNII 5 | 3       | 5965               | 13.50                                | 13.50 | 13.50   | 13.50 | 13.50   | 13.50 | 13.50   | 13.50 | 12.00   | 12.00 |
| 802.11be<br>EHT80<br>(MIMO)  | UNII 5 | 59      | 6245               | 13.50                                | 13.50 | 13.50   | 13.50 | 13.50   | 13.50 | 13.50   | 13.50 | 12.00   | 12.00 |
|                              | UNII 6 | 107     | 6485               | 13.00                                | 13.00 | 13.00   | 13.00 | 13.00   | 13.00 | 13.00   | 13.00 | 10.50   | 10.50 |
|                              | UNII 7 | 171     | 6805               | 14.00                                | 14.00 | 14.00   | 14.00 | 14.00   | 14.00 | 14.00   | 14.00 | 11.00   | 11.00 |
|                              | UNII 8 | 227     | 7085               | 15.50                                | 15.50 | 15.50   | 15.50 | 12.00   | 12.00 | 15.00   | 15.00 | 10.00   | 10.00 |
| 802.11be<br>EHT160<br>(MIMO) | UNII 5 | 7       | 5985               | 16.50                                | 16.50 | 16.50   | 16.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                              | UNII 5 | 71      | 6305               | 16.50                                | 16.50 | 16.50   | 16.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                              | UNII 6 | 119     | 6545               | 15.50                                | 15.50 | 15.50   | 15.50 | 14.50   | 14.50 | 15.50   | 15.50 | 10.50   | 10.50 |
|                              | UNII 7 | 167     | 6785               | 17.00                                | 17.00 | 16.50   | 16.50 | 15.00   | 15.00 | 16.00   | 16.00 | 11.00   | 11.00 |
| 802.11be<br>EHT160<br>(MIMO) | UNII 8 | 215     | 7025               | 18.00                                | 18.00 | 17.00   | 17.00 | 12.00   | 12.00 | 15.00   | 15.00 | 10.00   | 10.00 |
|                              | UNII 5 | 15      | 6025               | 19.00                                | 19.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                              | UNII 5 | 47      | 6185               | 19.00                                | 19.00 | 17.50   | 17.50 | 14.50   | 14.50 | 14.50   | 14.50 | 12.00   | 12.00 |
|                              | UNII 6 | 111     | 6505               | 17.50                                | 17.50 | 17.50   | 17.50 | 14.50   | 14.50 | 17.00   | 17.00 | 10.50   | 10.50 |
| 802.11be<br>EHT160<br>(MIMO) | UNII 7 | 143     | 6665               | 18.50                                | 18.50 | 16.50   | 16.50 | 15.00   | 15.00 | 16.00   | 16.00 | 11.00   | 11.00 |
|                              | UNII 8 | 207     | 6985               | 17.00                                | 17.00 | 17.00   | 17.00 | 12.00   | 12.00 | 15.00   | 15.00 | 10.00   | 10.00 |

**Very Low Power (VLP)**

| Maximum Transmit Average Power (dBm) |        |         |                    |               |       |               |       |
|--------------------------------------|--------|---------|--------------------|---------------|-------|---------------|-------|
| 6GHz<br>Mode<br>(CDD/SDM)            | Band   | Channel | Frequency<br>(MHz) | SDM           |       | CDD           |       |
|                                      |        |         |                    | Maximum power |       | Maximum power |       |
|                                      |        |         |                    | Ant 3         | Ant 4 | Ant 3         | Ant 4 |
| 802.11a<br>(MIMO)                    | UNII 5 | 1       | 5955               | 5.00          | 5.00  | 2.00          | 2.00  |
|                                      | UNII 5 | 49      | 6195               | 5.00          | 5.00  | 2.00          | 2.00  |
|                                      | UNII 5 | 93      | 6415               | 5.00          | 5.00  | 2.00          | 2.00  |
|                                      | UNII 6 | 97      | 6435               | 4.50          | 4.50  | 2.50          | 2.50  |
|                                      | UNII 6 | 105     | 6475               | 4.50          | 4.50  | 3.00          | 3.00  |
|                                      | UNII 6 | 113     | 6515               | 5.00          | 5.00  | 3.00          | 3.00  |
|                                      | UNII 7 | 117     | 6535               | 5.50          | 5.50  | 2.50          | 2.50  |
|                                      | UNII 7 | 149     | 6695               | 5.50          | 5.50  | 2.50          | 2.50  |
|                                      | UNII 7 | 181     | 6855               | 5.50          | 5.50  | 2.50          | 2.50  |
|                                      | UNII 7 | 185     | 6875               | 5.50          | 5.50  | 2.50          | 2.50  |
|                                      | UNII 8 | 189     | 6895               | 8.00          | 8.00  | 4.00          | 4.00  |
| 802.11ax-HE20<br>(MIMO)              | UNII 8 | 209     | 6995               | 6.50          | 6.50  | 4.00          | 4.00  |
|                                      | UNII 8 | 229     | 7095               | 6.50          | 6.50  | 4.00          | 4.00  |
|                                      | UNII 5 | 1       | 5955               | 6.00          | 6.00  | 2.50          | 2.50  |
|                                      | UNII 5 | 49      | 6195               | 6.00          | 6.00  | 2.50          | 2.50  |
|                                      | UNII 5 | 93      | 6415               | 6.00          | 6.00  | 2.50          | 2.50  |
|                                      | UNII 6 | 97      | 6435               | 5.00          | 5.00  | 2.50          | 2.50  |
|                                      | UNII 6 | 105     | 6475               | 5.00          | 5.00  | 3.00          | 3.00  |
|                                      | UNII 6 | 113     | 6515               | 5.00          | 5.00  | 3.50          | 3.50  |
|                                      | UNII 7 | 117     | 6535               | 6.00          | 6.00  | 3.50          | 3.50  |
|                                      | UNII 7 | 149     | 6695               | 6.00          | 6.00  | 3.50          | 3.50  |
|                                      | UNII 7 | 181     | 6855               | 6.00          | 6.00  | 3.50          | 3.50  |
| 802.11ax-HE40<br>(MIMO)              | UNII 7 | 185     | 6875               | 6.00          | 6.00  | 3.50          | 3.50  |
|                                      | UNII 8 | 189     | 6895               | 7.50          | 7.50  | 4.50          | 4.50  |
|                                      | UNII 8 | 209     | 6995               | 7.50          | 7.50  | 4.50          | 4.50  |
|                                      | UNII 8 | 229     | 7095               | 7.50          | 7.50  | 4.50          | 4.50  |
|                                      | UNII 5 | 3       | 5965               | 7.50          | 7.50  | 5.50          | 5.50  |
|                                      | UNII 5 | 51      | 6205               | 7.50          | 7.50  | 5.50          | 5.50  |
|                                      | UNII 5 | 91      | 6405               | 7.50          | 7.50  | 5.50          | 5.50  |
|                                      | UNII 6 | 99      | 6445               | 7.50          | 7.50  | 6.50          | 6.50  |
|                                      | UNII 6 | 107     | 6485               | 7.00          | 7.00  | 6.50          | 6.50  |
|                                      | UNII 6 | 115     | 6525               | 7.50          | 7.50  | 6.50          | 6.50  |
|                                      | UNII 7 | 123     | 6565               | 7.50          | 7.50  | 6.50          | 6.50  |
| 802.11ax-HE80<br>(MIMO)              | UNII 7 | 147     | 6685               | 7.50          | 7.50  | 6.50          | 6.50  |
|                                      | UNII 7 | 179     | 6845               | 8.50          | 8.50  | 6.50          | 6.50  |
|                                      | UNII 7 | 187     | 6885               | 8.50          | 8.50  | 6.50          | 6.50  |
|                                      | UNII 8 | 195     | 6925               | 11.00         | 11.00 | 7.50          | 7.50  |
|                                      | UNII 8 | 211     | 7005               | 11.00         | 11.00 | 7.50          | 7.50  |
|                                      | UNII 8 | 227     | 7085               | 11.00         | 11.00 | 7.50          | 7.50  |
|                                      | UNII 5 | 7       | 5985               | 12.50         | 12.50 | 7.50          | 7.50  |
|                                      | UNII 5 | 55      | 6225               | 12.50         | 12.50 | 7.50          | 7.50  |
|                                      | UNII 5 | 87      | 6385               | 12.50         | 12.50 | 7.50          | 7.50  |
|                                      | UNII 6 | 103     | 6465               | 11.50         | 11.50 | 10.00         | 10.00 |
|                                      | UNII 6 | 119     | 6545               | 11.50         | 11.50 | 10.00         | 10.00 |
| 802.11ax-HE160<br>(MIMO)             | UNII 7 | 135     | 6625               | 12.50         | 12.50 | 7.50          | 7.50  |
|                                      | UNII 7 | 151     | 6705               | 12.50         | 12.50 | 7.50          | 7.50  |
|                                      | UNII 7 | 167     | 6785               | 12.50         | 12.50 | 8.50          | 8.50  |
|                                      | UNII 7 | 183     | 6865               | 12.50         | 12.50 | 8.50          | 8.50  |
|                                      | UNII 8 | 199     | 6945               | 13.50         | 13.50 | 11.00         | 11.00 |
|                                      | UNII 8 | 215     | 7025               | 13.50         | 13.50 | 11.00         | 11.00 |
| 802.11be-EHT20<br>(MIMO)             | UNII 5 | 15      | 6025               | 15.00         | 15.00 | 12.00         | 12.00 |
|                                      | UNII 5 | 47      | 6185               | 15.00         | 15.00 | 12.00         | 12.00 |
|                                      | UNII 5 | 79      | 6345               | 15.00         | 15.00 | 12.00         | 12.00 |
|                                      | UNII 6 | 111     | 6505               | 14.00         | 14.00 | 12.50         | 12.50 |
|                                      | UNII 7 | 143     | 6665               | 15.50         | 15.50 | 13.00         | 13.00 |
|                                      | UNII 7 | 175     | 6825               | 15.50         | 15.50 | 13.00         | 13.00 |
| 802.11be-EHT20<br>(MIMO)             | UNII 8 | 207     | 6985               | 16.50         | 16.50 | 14.00         | 14.00 |
|                                      | UNII 5 | 1       | 5955               | 6.00          | 6.00  | 2.50          | 2.50  |
|                                      | UNII 5 | 49      | 6195               | 6.00          | 6.00  | 2.50          | 2.50  |
|                                      | UNII 5 | 93      | 6415               | 6.00          | 6.00  | 2.50          | 2.50  |
|                                      | UNII 6 | 97      | 6435               | 5.00          | 5.00  | 2.50          | 2.50  |
|                                      | UNII 6 | 105     | 6475               | 5.00          | 5.00  | 3.00          | 3.00  |
|                                      | UNII 6 | 113     | 6515               | 5.00          | 5.00  | 3.50          | 3.50  |
| 802.11be-EHT20<br>(MIMO)             | UNII 7 | 117     | 6535               | 6.00          | 6.00  | 3.50          | 3.50  |
|                                      | UNII 7 | 149     | 6695               | 6.00          | 6.00  | 3.50          | 3.50  |
|                                      | UNII 7 | 181     | 6855               | 6.00          | 6.00  | 3.50          | 3.50  |
|                                      | UNII 7 | 185     | 6875               | 6.00          | 6.00  | 3.50          | 3.50  |

|                           |        |     |      |       |       |       |       |
|---------------------------|--------|-----|------|-------|-------|-------|-------|
|                           | UNII 8 | 189 | 6895 | 7.50  | 7.50  | 4.50  | 4.50  |
|                           | UNII 8 | 209 | 6995 | 7.50  | 7.50  | 4.50  | 4.50  |
|                           | UNII 8 | 229 | 7095 | 7.50  | 7.50  | 4.50  | 4.50  |
| 802.11be-EHT40<br>(MIMO)  | UNII 5 | 3   | 5965 | 7.50  | 7.50  | 5.50  | 5.50  |
|                           | UNII 5 | 51  | 6205 | 7.50  | 7.50  | 5.50  | 5.50  |
|                           | UNII 5 | 91  | 6405 | 7.50  | 7.50  | 5.50  | 5.50  |
|                           | UNII 6 | 99  | 6445 | 7.50  | 7.50  | 6.50  | 6.50  |
|                           | UNII 6 | 107 | 6485 | 7.00  | 7.00  | 6.50  | 6.50  |
|                           | UNII 6 | 115 | 6525 | 7.50  | 7.50  | 6.50  | 6.50  |
|                           | UNII 7 | 123 | 6565 | 7.50  | 7.50  | 6.50  | 6.50  |
|                           | UNII 7 | 147 | 6685 | 7.50  | 7.50  | 6.50  | 6.50  |
|                           | UNII 7 | 179 | 6845 | 8.50  | 8.50  | 6.50  | 6.50  |
|                           | UNII 7 | 187 | 6885 | 8.50  | 8.50  | 6.50  | 6.50  |
|                           | UNII 8 | 195 | 6925 | 11.00 | 11.00 | 7.50  | 7.50  |
|                           | UNII 8 | 211 | 7005 | 11.00 | 11.00 | 7.50  | 7.50  |
|                           | UNII 8 | 227 | 7085 | 11.00 | 11.00 | 7.50  | 7.50  |
| 802.11be-EHT80<br>(MIMO)  | UNII 5 | 7   | 5985 | 12.50 | 12.50 | 7.50  | 7.50  |
|                           | UNII 5 | 55  | 6225 | 12.50 | 12.50 | 7.50  | 7.50  |
|                           | UNII 5 | 87  | 6385 | 12.50 | 12.50 | 7.50  | 7.50  |
|                           | UNII 6 | 103 | 6465 | 11.50 | 11.50 | 10.00 | 10.00 |
|                           | UNII 6 | 119 | 6545 | 11.50 | 11.50 | 10.00 | 10.00 |
|                           | UNII 7 | 135 | 6625 | 12.50 | 12.50 | 7.50  | 7.50  |
|                           | UNII 7 | 151 | 6705 | 12.50 | 12.50 | 7.50  | 7.50  |
|                           | UNII 7 | 167 | 6785 | 12.50 | 12.50 | 8.50  | 8.50  |
|                           | UNII 7 | 183 | 6865 | 12.50 | 12.50 | 8.50  | 8.50  |
|                           | UNII 8 | 199 | 6945 | 13.50 | 13.50 | 11.00 | 11.00 |
|                           | UNII 8 | 215 | 7025 | 13.50 | 13.50 | 11.00 | 11.00 |
| 802.11be-EHT160<br>(MIMO) | UNII 5 | 15  | 6025 | 15.00 | 15.00 | 12.00 | 12.00 |
|                           | UNII 5 | 47  | 6185 | 15.00 | 15.00 | 12.00 | 12.00 |
|                           | UNII 5 | 79  | 6345 | 15.00 | 15.00 | 12.00 | 12.00 |
|                           | UNII 6 | 111 | 6505 | 14.00 | 14.00 | 12.50 | 12.50 |
|                           | UNII 7 | 143 | 6665 | 15.50 | 15.50 | 13.00 | 13.00 |
|                           | UNII 7 | 175 | 6825 | 15.50 | 15.50 | 13.00 | 13.00 |
|                           | UNII 8 | 207 | 6985 | 16.50 | 16.50 | 14.00 | 14.00 |

| Maximum Transmit Average Power (dBm) |        |         |                    |               |       |         |       |
|--------------------------------------|--------|---------|--------------------|---------------|-------|---------|-------|
| 6GHz<br>Mode<br>(CDD/SDM)            | Band   | Channel | Frequency<br>(MHz) | Maximum power |       | Index 4 |       |
|                                      |        |         |                    | Ant 3         | Ant 4 | Ant 3   | Ant 4 |
| 802.11a<br>(MIMO)                    | UNII 5 | 1       | 5955               | 5.00          | 5.00  | 5.00    | 5.00  |
|                                      | UNII 5 | 57      | 6235               | 5.00          | 5.00  | 5.00    | 5.00  |
|                                      | UNII 6 | 113     | 6515               | 5.00          | 5.00  | 5.00    | 5.00  |
|                                      | UNII 7 | 173     | 6815               | 5.50          | 5.50  | 5.50    | 5.50  |
| 802.11ax<br>HE20<br>(MIMO)           | UNII 5 | 1       | 5955               | 6.00          | 6.00  | 6.00    | 6.00  |
|                                      | UNII 5 | 57      | 6235               | 6.00          | 6.00  | 6.00    | 6.00  |
|                                      | UNII 6 | 113     | 6515               | 5.00          | 5.00  | 5.00    | 5.00  |
|                                      | UNII 7 | 173     | 6815               | 6.00          | 6.00  | 6.00    | 6.00  |
| 802.11ax<br>HE40<br>(MIMO)           | UNII 5 | 3       | 5965               | 7.50          | 7.50  | 7.50    | 7.50  |
|                                      | UNII 5 | 59      | 6245               | 7.50          | 7.50  | 7.50    | 7.50  |
|                                      | UNII 6 | 107     | 6485               | 7.00          | 7.00  | 7.00    | 7.00  |
|                                      | UNII 7 | 171     | 6805               | 8.50          | 8.50  | 8.50    | 8.50  |
| 802.11ax<br>HE80<br>(MIMO)           | UNII 8 | 227     | 7085               | 11.00         | 11.00 | 10.00   | 10.00 |
|                                      | UNII 5 | 7       | 5985               | 12.50         | 12.50 | 12.00   | 12.00 |
|                                      | UNII 5 | 71      | 6305               | 12.50         | 12.50 | 12.00   | 12.00 |
|                                      | UNII 6 | 119     | 6545               | 11.50         | 11.50 | 10.50   | 10.50 |
| 802.11ax<br>HE160<br>(MIMO)          | UNII 7 | 167     | 6785               | 12.50         | 12.50 | 11.00   | 11.00 |
|                                      | UNII 8 | 215     | 7025               | 13.50         | 13.50 | 10.00   | 10.00 |
|                                      | UNII 5 | 15      | 6025               | 15.00         | 15.00 | 12.00   | 12.00 |
|                                      | UNII 5 | 47      | 6185               | 15.00         | 15.00 | 12.00   | 12.00 |
| 802.11be<br>EHT20<br>(MIMO)          | UNII 6 | 111     | 6505               | 14.00         | 14.00 | 10.50   | 10.50 |
|                                      | UNII 7 | 143     | 6665               | 15.50         | 15.50 | 11.00   | 11.00 |
|                                      | UNII 8 | 207     | 6985               | 16.50         | 16.50 | 10.00   | 10.00 |
|                                      | UNII 5 | 1       | 5955               | 6.00          | 6.00  | 6.00    | 6.00  |
| 802.11be<br>EHT40<br>(MIMO)          | UNII 5 | 57      | 6235               | 6.00          | 6.00  | 6.00    | 6.00  |
|                                      | UNII 6 | 113     | 6515               | 5.00          | 5.00  | 5.00    | 5.00  |
|                                      | UNII 7 | 173     | 6815               | 6.00          | 6.00  | 6.00    | 6.00  |
|                                      | UNII 5 | 3       | 5965               | 7.50          | 7.50  | 7.50    | 7.50  |
| 802.11be<br>EHT80<br>(MIMO)          | UNII 5 | 59      | 6245               | 7.50          | 7.50  | 7.50    | 7.50  |
|                                      | UNII 6 | 107     | 6485               | 7.00          | 7.00  | 7.00    | 7.00  |
|                                      | UNII 7 | 171     | 6805               | 8.50          | 8.50  | 8.50    | 8.50  |
|                                      | UNII 8 | 227     | 7085               | 11.00         | 11.00 | 10.00   | 10.00 |
| 802.11be<br>EHT160<br>(MIMO)         | UNII 5 | 7       | 5985               | 12.50         | 12.50 | 12.00   | 12.00 |
|                                      | UNII 5 | 71      | 6305               | 12.50         | 12.50 | 12.00   | 12.00 |
|                                      | UNII 6 | 119     | 6545               | 11.50         | 11.50 | 10.50   | 10.50 |
|                                      | UNII 7 | 167     | 6785               | 12.50         | 12.50 | 11.00   | 11.00 |
| 802.11be<br>EHT20<br>(MIMO)          | UNII 8 | 215     | 7025               | 13.50         | 13.50 | 10.00   | 10.00 |
|                                      | UNII 5 | 15      | 6025               | 15.00         | 15.00 | 12.00   | 12.00 |
|                                      | UNII 5 | 47      | 6185               | 15.00         | 15.00 | 12.00   | 12.00 |
|                                      | UNII 6 | 111     | 6505               | 14.00         | 14.00 | 10.50   | 10.50 |
| 802.11be<br>EHT40<br>(MIMO)          | UNII 7 | 143     | 6665               | 15.50         | 15.50 | 11.00   | 11.00 |
|                                      | UNII 8 | 207     | 6985               | 16.50         | 16.50 | 10.00   | 10.00 |
|                                      | UNII 5 | 1       | 5955               | 6.00          | 6.00  | 6.00    | 6.00  |
|                                      | UNII 5 | 57      | 6235               | 6.00          | 6.00  | 6.00    | 6.00  |
| 802.11be<br>EHT80<br>(MIMO)          | UNII 6 | 113     | 6515               | 5.00          | 5.00  | 5.00    | 5.00  |
|                                      | UNII 7 | 173     | 6815               | 6.00          | 6.00  | 6.00    | 6.00  |
|                                      | UNII 5 | 3       | 5965               | 7.50          | 7.50  | 7.50    | 7.50  |
|                                      | UNII 5 | 59      | 6245               | 7.50          | 7.50  | 7.50    | 7.50  |
| 802.11be<br>EHT160<br>(MIMO)         | UNII 6 | 107     | 6485               | 7.00          | 7.00  | 7.00    | 7.00  |
|                                      | UNII 7 | 171     | 6805               | 8.50          | 8.50  | 8.50    | 8.50  |
|                                      | UNII 8 | 227     | 7085               | 11.00         | 11.00 | 10.00   | 10.00 |
|                                      | UNII 5 | 7       | 5985               | 12.50         | 12.50 | 12.00   | 12.00 |
| 802.11be<br>EHT20<br>(MIMO)          | UNII 5 | 71      | 6305               | 12.50         | 12.50 | 12.00   | 12.00 |
|                                      | UNII 6 | 119     | 6545               | 11.50         | 11.50 | 10.50   | 10.50 |
|                                      | UNII 7 | 167     | 6785               | 12.50         | 12.50 | 11.00   | 11.00 |
|                                      | UNII 8 | 215     | 7025               | 13.50         | 13.50 | 10.00   | 10.00 |
| 802.11be<br>EHT40<br>(MIMO)          | UNII 5 | 15      | 6025               | 15.00         | 15.00 | 12.00   | 12.00 |
|                                      | UNII 5 | 47      | 6185               | 15.00         | 15.00 | 12.00   | 12.00 |
|                                      | UNII 6 | 111     | 6505               | 14.00         | 14.00 | 10.50   | 10.50 |
|                                      | UNII 7 | 143     | 6665               | 15.50         | 15.50 | 11.00   | 11.00 |
| 802.11be<br>EHT80<br>(MIMO)          | UNII 8 | 207     | 6985               | 16.50         | 16.50 | 10.00   | 10.00 |
|                                      | UNII 5 | 1       | 5955               | 6.00          | 6.00  | 6.00    | 6.00  |
|                                      | UNII 5 | 57      | 6235               | 6.00          | 6.00  | 6.00    | 6.00  |
|                                      | UNII 6 | 113     | 6515               | 5.00          | 5.00  | 5.00    | 5.00  |
| 802.11be<br>EHT160<br>(MIMO)         | UNII 7 | 173     | 6815               | 6.00          | 6.00  | 6.00    | 6.00  |
|                                      | UNII 5 | 3       | 5965               | 7.50          | 7.50  | 7.50    | 7.50  |
|                                      | UNII 5 | 59      | 6245               | 7.50          | 7.50  | 7.50    | 7.50  |
|                                      | UNII 6 | 107     | 6485               | 7.00          | 7.00  | 7.00    | 7.00  |
| 802.11be<br>EHT20<br>(MIMO)          | UNII 7 | 171     | 6805               | 8.50          | 8.50  | 8.50    | 8.50  |
|                                      | UNII 8 | 227     | 7085               | 11.00         | 11.00 | 10.00   | 10.00 |
|                                      | UNII 5 | 7       | 5985               | 12.50         | 12.50 | 12.00   | 12.00 |
|                                      | UNII 5 | 71      | 6305               | 12.50         | 12.50 | 12.00   | 12.00 |
| 802.11be<br>EHT40<br>(MIMO)          | UNII 6 | 119     | 6545               | 11.50         | 11.50 | 10.50   | 10.50 |
|                                      | UNII 7 | 167     | 6785               | 12.50         | 12.50 | 11.00   | 11.00 |
|                                      | UNII 8 | 215     | 7025               | 13.50         | 13.50 | 10.00   | 10.00 |
|                                      | UNII 5 | 15      | 6025               | 15.00         | 15.00 | 12.00   | 12.00 |
| 802.11be<br>EHT80<br>(MIMO)          | UNII 5 | 47      | 6185               | 15.00         | 15.00 | 12.00   | 12.00 |
|                                      | UNII 6 | 111     | 6505               | 14.00         | 14.00 | 10.50   | 10.50 |
|                                      | UNII 7 | 143     | 6665               | 15.50         | 15.50 | 11.00   | 11.00 |
|                                      | UNII 8 | 207     | 6985               | 16.50         | 16.50 | 10.00   | 10.00 |

**<Bluetooth/Thread/UWB Maximum Power>**
**General Note:**

- The device implements the power management for Bluetooth/Thread SAR compliance for different exposure conditions and user cases. In each exposure condition, the power index selection is determined by the user cases as tested in Section 14 of this report. Full details about the proprietary power management decision are illustrated in the operational description.

| Maximum Transmit Average Power (dBm) |         |                 |               |       |         |       |         |       |         |       |         |       |
|--------------------------------------|---------|-----------------|---------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| Bluetooth Mode                       | Channel | Frequency (MHz) | Maximum power |       | Index 1 |       | Index 2 |       | Index 3 |       | Index 4 |       |
|                                      |         |                 | Ant 3         | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 |
| BR / EDR 1Mbps (SISO)                | 0       | 2402            | 21.00         | 21.00 | 14.50   | 13.00 | 20.50   | 21.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 39      | 2441            | 21.00         | 21.00 | 14.50   | 13.00 | 20.50   | 21.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 78      | 2480            | 21.00         | 21.00 | 14.50   | 13.00 | 20.50   | 21.00 | 15.00   | 18.00 | 13.50   | 15.00 |
| BR / EDR 2Mbps (SISO)                | 0       | 2402            | 19.00         | 19.00 | 14.50   | 13.00 | 19.00   | 19.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 39      | 2441            | 19.00         | 19.00 | 14.50   | 13.00 | 19.00   | 19.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 78      | 2480            | 19.00         | 19.00 | 14.50   | 13.00 | 19.00   | 19.00 | 15.00   | 18.00 | 13.50   | 15.00 |
| BR / EDR 3Mbps (SISO)                | 0       | 2402            | 19.00         | 19.00 | 14.50   | 13.00 | 19.00   | 19.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 39      | 2441            | 19.00         | 19.00 | 14.50   | 13.00 | 19.00   | 19.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 78      | 2480            | 19.00         | 19.00 | 14.50   | 13.00 | 19.00   | 19.00 | 15.00   | 18.00 | 13.50   | 15.00 |
| LE 1Mbps (SISO)                      | 0       | 2402            | 21.00         | 21.00 | 14.50   | 13.00 | 20.50   | 21.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 19      | 2440            | 21.00         | 21.00 | 14.50   | 13.00 | 20.50   | 21.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 39      | 2480            | 21.00         | 21.00 | 14.50   | 13.00 | 20.50   | 21.00 | 15.00   | 18.00 | 13.50   | 15.00 |
| LE 2Mbps (SISO)                      | 1       | 2404            | 21.00         | 21.00 | 14.50   | 13.00 | 20.50   | 21.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 19      | 2440            | 21.00         | 21.00 | 14.50   | 13.00 | 20.50   | 21.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 38      | 2478            | 21.00         | 21.00 | 14.50   | 13.00 | 20.50   | 21.00 | 15.00   | 18.00 | 13.50   | 15.00 |
| BLE CS GFSK 1Mbps (SISO)             | 2       | 2404            | 20.00         | 20.00 | 14.50   | 13.00 | 20.00   | 20.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 38      | 2440            | 20.00         | 20.00 | 14.50   | 13.00 | 20.00   | 20.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 76      | 2478            | 20.00         | 20.00 | 14.50   | 13.00 | 20.00   | 20.00 | 15.00   | 18.00 | 13.50   | 15.00 |
| BLE CS GFSK 2Mbps (SISO)             | 2       | 2404            | 20.00         | 20.00 | 14.50   | 13.00 | 20.00   | 20.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 38      | 2440            | 20.00         | 20.00 | 14.50   | 13.00 | 20.00   | 20.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 76      | 2478            | 20.00         | 20.00 | 14.50   | 13.00 | 20.00   | 20.00 | 15.00   | 18.00 | 13.50   | 15.00 |
| BLE CS ASK 1Mbps (SISO)              | 2       | 2404            | 20.00         | 20.00 | 14.50   | 13.00 | 20.00   | 20.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 38      | 2440            | 20.00         | 20.00 | 14.50   | 13.00 | 20.00   | 20.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 76      | 2478            | 20.00         | 20.00 | 14.50   | 13.00 | 20.00   | 20.00 | 15.00   | 18.00 | 13.50   | 15.00 |
| BLE CS ASK 2Mbps (SISO)              | 2       | 2404            | 20.00         | 20.00 | 14.50   | 13.00 | 20.00   | 20.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 38      | 2440            | 20.00         | 20.00 | 14.50   | 13.00 | 20.00   | 20.00 | 15.00   | 18.00 | 13.50   | 15.00 |
|                                      | 76      | 2478            | 20.00         | 20.00 | 14.50   | 13.00 | 20.00   | 20.00 | 15.00   | 18.00 | 13.50   | 15.00 |

| Maximum Transmit Average Power (dBm) |         |                 |               |       |         |       |         |       |         |       |         |       |
|--------------------------------------|---------|-----------------|---------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| Bluetooth Mode                       | Channel | Frequency (MHz) | Maximum power |       | Index 1 |       | Index 2 |       | Index 3 |       | Index 4 |       |
|                                      |         |                 | Ant 3         | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 | Ant 3   | Ant 4 |
| BR / EDR 1Mbps (MIMO)                | 0       | 2402            | 21.00         | 21.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
|                                      | 39      | 2441            | 21.00         | 21.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
|                                      | 78      | 2480            | 21.00         | 21.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
| BR / EDR 2Mbps (MIMO)                | 0       | 2402            | 19.00         | 19.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
|                                      | 39      | 2441            | 19.00         | 19.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
|                                      | 78      | 2480            | 19.00         | 19.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
| BR / EDR 3Mbps (MIMO)                | 0       | 2402            | 19.00         | 19.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
|                                      | 39      | 2441            | 19.00         | 19.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
|                                      | 78      | 2480            | 19.00         | 19.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
| LE 1Mbps (MIMO)                      | 0       | 2402            | 21.00         | 21.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
|                                      | 19      | 2440            | 21.00         | 21.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
|                                      | 39      | 2480            | 21.00         | 21.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
| LE 2Mbps (MIMO)                      | 1       | 2404            | 21.00         | 21.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
|                                      | 19      | 2440            | 21.00         | 21.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |
|                                      | 38      | 2478            | 21.00         | 21.00 | 13.50   | 13.50 | 19.00   | 19.00 | 15.50   | 15.50 | 13.50   | 13.50 |

| Maximum Transmit Average Power (dBm) |         |                 |               |       |         |         |         |
|--------------------------------------|---------|-----------------|---------------|-------|---------|---------|---------|
| Thread Mode                          | Channel | Frequency (MHz) | Maximum power |       | Index 1 | Index 2 | Index 3 |
|                                      |         |                 | Ant 3         | Ant 4 | Ant 3   | Ant 3   | Ant 3   |
| 250K (SISO)                          | 11      | 2405            | 22.00         |       | 14.00   | 21.00   | 14.00   |
|                                      | 18      | 2440            | 22.00         |       | 14.00   | 21.00   | 13.00   |
|                                      | 25      | 2475            | 22.00         |       | 14.00   | 21.00   | 13.00   |
|                                      | 26      | 2480            | 22.00         |       | 14.00   | 21.00   | 13.00   |

| Maximum Transmit Average Power (dBm) |              |  |                      |  |
|--------------------------------------|--------------|--|----------------------|--|
| UWB                                  | Ant 5 (CH05) |  | Patch Antenna (CH09) |  |
|                                      | -13.36       |  | -14.93               |  |
|                                      |              |  | -11.04               |  |
|                                      |              |  | -13.6                |  |

## 2.3 General LTE SAR Test and Reporting Considerations

| Summarized necessary items addressed in KDB 941225 D05 v02r05           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------|--------|--------|----------|-------------------------------------------------------------------------|--|--|--|--|--|--|--|------------|---------------------------------------------------------------|--|--|--|--|--|----------|---------|---------|-------|--------|--------|--------|------|-----|-----|-----|------|------|------|-----|--------|-----|-----|-----|------|------|------|-----|--------|-----|-----|-----|------|------|------|-----|--------|-----|-----|-----|------|------|------|-----|--------|-----|-----|-----|------|------|------|-----|---------|-----|--|--|--|--|--|-----|
| FCC ID                                                                  | A4RGBC0H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| Equipment Name                                                          | Phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| Operating Frequency Range of each LTE transmission band                 | LTE Band 2: 1850 MHz ~ 1910 MHz<br>LTE Band 4: 1710 MHz ~ 1755 MHz<br>LTE Band 5: 824 MHz ~ 849 MHz<br>LTE Band 7: 2500 MHz ~ 2570 MHz<br>LTE Band 12: 699 MHz ~ 716 MHz<br>LTE Band 13: 777 MHz ~ 787 MHz<br>LTE Band 14: 788 MHz ~ 798 MHz<br>LTE Band 17: 704 MHz ~ 716 MHz<br>LTE Band 25: 1850 MHz ~ 1915 MHz<br>LTE Band 26: 814 MHz ~ 849 MHz<br>LTE Band 30: 2305 MHz ~ 2315 MHz<br>LTE Band 38: 2570 MHz ~ 2620 MHz<br>LTE Band 41: 2496 MHz ~ 2690 MHz<br>LTE Band 48: 3550 MHz ~ 3700 MHz<br>LTE Band 66: 1710 MHz ~ 1780 MHz<br>LTE Band 71: 663 MHz ~ 698 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| Channel Bandwidth                                                       | LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz<br>LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz<br>LTE Band 13: 5MHz, 10MHz<br>LTE Band 14: 5MHz, 10MHz<br>LTE Band 17: 5MHz, 10MHz<br>LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz<br>LTE Band 30: 5MHz, 10MHz<br>LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz                                                                                                                                                                                                                                                                                                                                                                                 |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| uplink modulations used                                                 | QPSK / 16QAM / 64QAM / 256QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| LTE Voice / Data requirements                                           | Voice and Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| LTE MPR permanently built-in by design                                  | <table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N<sub>RB</sub>)</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>&gt; 5</td><td>&gt; 4</td><td>&gt; 8</td><td>&gt; 12</td><td>&gt; 16</td><td>&gt; 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>&gt; 5</td><td>&gt; 4</td><td>&gt; 8</td><td>&gt; 12</td><td>&gt; 16</td><td>&gt; 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>&gt; 5</td><td>&gt; 4</td><td>&gt; 8</td><td>&gt; 12</td><td>&gt; 16</td><td>&gt; 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table> |         |       |        |        |        |          | Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3 |  |  |  |  |  |  |  | Modulation | Channel bandwidth / Transmission bandwidth (N <sub>RB</sub> ) |  |  |  |  |  | MPR (dB) | 1.4 MHz | 3.0 MHz | 5 MHz | 10 MHz | 15 MHz | 20 MHz | QPSK | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | ≤ 1 | 16 QAM | ≤ 5 | ≤ 4 | ≤ 8 | ≤ 12 | ≤ 16 | ≤ 18 | ≤ 1 | 16 QAM | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | ≤ 2 | 64 QAM | ≤ 5 | ≤ 4 | ≤ 8 | ≤ 12 | ≤ 16 | ≤ 18 | ≤ 2 | 64 QAM | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | ≤ 3 | 256 QAM | ≥ 1 |  |  |  |  |  | ≤ 5 |
| Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| Modulation                                                              | Channel bandwidth / Transmission bandwidth (N <sub>RB</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |       |        |        |        | MPR (dB) |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
|                                                                         | 1.4 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.0 MHz | 5 MHz | 10 MHz | 15 MHz | 20 MHz |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| QPSK                                                                    | > 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | > 4     | > 8   | > 12   | > 16   | > 18   | ≤ 1      |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| 16 QAM                                                                  | ≤ 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ≤ 4     | ≤ 8   | ≤ 12   | ≤ 16   | ≤ 18   | ≤ 1      |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| 16 QAM                                                                  | > 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | > 4     | > 8   | > 12   | > 16   | > 18   | ≤ 2      |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| 64 QAM                                                                  | ≤ 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ≤ 4     | ≤ 8   | ≤ 12   | ≤ 16   | ≤ 18   | ≤ 2      |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| 64 QAM                                                                  | > 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | > 4     | > 8   | > 12   | > 16   | > 18   | ≤ 3      |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| 256 QAM                                                                 | ≥ 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |       |        |        |        | ≤ 5      |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| LTE A-MPR                                                               | In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| Spectrum plots for RB configuration                                     | A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| Power reduction applied to satisfy SAR compliance                       | The device has several different power modes for each exposure conditions SAR compliance; power selection is determined by the device's positioning and usage scenarios. Detail refer to operational description.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| LTE Carrier Aggregation Combinations                                    | The UL CA referred to section 12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| LTE Carrier Aggregation Additional Information                          | Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |



| Transmission (H, M, L) channel numbers and frequencies in each LTE band |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|-------------------------------------------------------------------------|------------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| LTE Band 2                                                              |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 1.4MHz |             | Bandwidth 3MHz  |             | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |
|                                                                         | Ch. #            | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 18607            | 1850.7      | 18615           | 1851.5      | 18625           | 1852.5      | 18650           | 1855        | 18675           | 1857.5      | 18700           | 1860        |
| M                                                                       | 18900            | 1880        | 18900           | 1880        | 18900           | 1880        | 18900           | 1880        | 18900           | 1880        | 18900           | 1880        |
| H                                                                       | 19193            | 1909.3      | 19185           | 1908.5      | 19175           | 1907.5      | 19150           | 1905        | 19125           | 1902.5      | 19100           | 1900        |
| LTE Band 4                                                              |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 1.4MHz |             | Bandwidth 3MHz  |             | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |
|                                                                         | Ch. #            | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 19957            | 1710.7      | 19965           | 1711.5      | 19975           | 1712.5      | 20000           | 1715        | 20025           | 1717.5      | 20050           | 1720        |
| M                                                                       | 20175            | 1732.5      | 20175           | 1732.5      | 20175           | 1732.5      | 20175           | 1732.5      | 20175           | 1732.5      | 20175           | 1732.5      |
| H                                                                       | 20393            | 1754.3      | 20385           | 1753.5      | 20375           | 1752.5      | 20350           | 1750        | 20325           | 1747.5      | 20300           | 1745        |
| LTE Band 5                                                              |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 1.4MHz |             | Bandwidth 3MHz  |             | Bandwidth 5MHz  |             | Bandwidth 10MHz |             |                 |             |                 |             |
|                                                                         | Ch. #            | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 20407            | 824.7       | 20415           | 825.5       | 20425           | 826.5       | 20450           | 829         |                 |             |                 |             |
| M                                                                       | 20525            | 836.5       | 20525           | 836.5       | 20525           | 836.5       | 20525           | 836.5       |                 |             |                 |             |
| H                                                                       | 20643            | 848.3       | 20635           | 847.5       | 20625           | 846.5       | 20600           | 844         |                 |             |                 |             |
| LTE Band 7                                                              |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 5MHz   |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |                 |             |                 |             |
|                                                                         | Ch. #            | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 20775            | 2502.5      | 20800           | 2505        | 20825           | 2507.5      | 20850           | 2510        |                 |             |                 |             |
| M                                                                       | 21100            | 2535        | 21100           | 2535        | 21100           | 2535        | 21100           | 2535        |                 |             |                 |             |
| H                                                                       | 21425            | 2567.5      | 21400           | 2565        | 21375           | 2562.5      | 21350           | 2560        |                 |             |                 |             |
| LTE Band 12                                                             |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 1.4MHz |             | Bandwidth 3MHz  |             | Bandwidth 5MHz  |             | Bandwidth 10MHz |             |                 |             |                 |             |
|                                                                         | Ch. #            | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 23017            | 699.7       | 23025           | 700.5       | 23035           | 701.5       | 23060           | 704         |                 |             |                 |             |
| M                                                                       | 23095            | 707.5       | 23095           | 707.5       | 23095           | 707.5       | 23095           | 707.5       |                 |             |                 |             |
| H                                                                       | 23173            | 715.3       | 23165           | 714.5       | 23115           | 713.5       | 23130           | 711         |                 |             |                 |             |
| LTE Band 13                                                             |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 5MHz   |             |                 |             | Bandwidth 10MHz |             |                 |             |                 |             |                 |             |
|                                                                         | Ch. #            |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             |
| L                                                                       | 23205            |             | 779.5           |             | 23230           |             | 782             |             |                 |             |                 |             |
| M                                                                       | 23230            |             | 782             |             |                 |             |                 |             |                 |             |                 |             |
| H                                                                       | 23255            |             | 784.5           |             |                 |             |                 |             |                 |             |                 |             |
| LTE Band 14                                                             |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 5MHz   |             |                 |             | Bandwidth 10MHz |             |                 |             |                 |             |                 |             |
|                                                                         | Ch. #            |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             |
| L                                                                       | 23305            |             | 790.5           |             | 23330           |             | 793             |             |                 |             |                 |             |
| M                                                                       | 23330            |             | 793             |             |                 |             |                 |             |                 |             |                 |             |
| H                                                                       | 23355            |             | 795.5           |             |                 |             |                 |             |                 |             |                 |             |
| LTE Band 17                                                             |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 5MHz   |             |                 |             | Bandwidth 10MHz |             |                 |             |                 |             |                 |             |
|                                                                         | Ch. #            |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             |
| L                                                                       | 23755            |             | 706.5           |             | 23780           |             | 709             |             |                 |             |                 |             |
| M                                                                       | 23790            |             | 710             |             | 23790           |             | 710             |             |                 |             |                 |             |
| H                                                                       | 23825            |             | 713.5           |             | 23800           |             | 711             |             |                 |             |                 |             |
| LTE Band 25                                                             |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 1.4MHz |             | Bandwidth 3MHz  |             | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |
|                                                                         | Ch. #            | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 26047            | 1850.7      | 26055           | 1851.5      | 26065           | 1852.5      | 26090           | 1855        | 26115           | 1857.5      | 26140           | 1860        |
| M                                                                       | 26340            | 1880        | 26340           | 1880        | 26340           | 1880        | 26340           | 1880        | 26340           | 1880        | 26340           | 1880        |
| H                                                                       | 26683            | 1914.3      | 26675           | 1913.5      | 26665           | 1912.5      | 26640           | 1910        | 26615           | 1907.5      | 26590           | 1905        |
| LTE Band 26                                                             |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 1.4MHz |             | Bandwidth 3MHz  |             | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             |                 |             |
|                                                                         | Ch. #            | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 26697            | 814.7       | 26705           | 815.5       | 26715           | 816.5       | 26740           | 819         | 26765           | 821.5       |                 |             |
| M                                                                       | 26865            | 831.5       | 26865           | 831.5       | 26865           | 831.5       | 26865           | 831.5       | 26865           | 831.5       |                 |             |
| H                                                                       | 27033            | 848.3       | 27025           | 847.5       | 27015           | 846.5       | 26990           | 844         | 26965           | 841.5       |                 |             |



| LTE Band 30 |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|-------------|------------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
|             | Bandwidth 5MHz   |             |                 |             | Bandwidth 10MHz |             |                 |             |                 |             |                 |             |
|             | Ch. #            |             | Freq. (MHz)     |             | Ch. #           |             |                 |             | Freq. (MHz)     |             |                 |             |
| L           | 27685            |             | 2307.5          |             | 27710           |             |                 |             | 2310            |             |                 |             |
| M           | 27710            |             | 2310            |             |                 |             |                 |             |                 |             |                 |             |
| H           | 27735            |             | 2312.5          |             |                 |             |                 |             |                 |             |                 |             |
| LTE Band 38 |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|             | Bandwidth 5MHz   |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |                 |             |                 |             |
|             | Ch. #            | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |                 |             |                 |             |
| L           | 37775            | 2572.5      | 37800           | 2575        | 37825           | 2577.5      | 37850           | 2580        |                 |             |                 |             |
| M           | 38000            | 2595        | 38000           | 2595        | 38000           | 2595        | 38000           | 2595        |                 |             |                 |             |
| H           | 38225            | 2617.5      | 38200           | 2615        | 38175           | 2612.5      | 38150           | 2610        |                 |             |                 |             |
| LTE Band 41 |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|             | Bandwidth 5MHz   |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |                 |             |                 |             |
|             | Ch. #            | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |                 |             |                 |             |
| L           | 39675            | 2498.5      | 39700           | 2501        | 39725           | 2503.5      | 39750           | 2506        |                 |             |                 |             |
| LMM         | 40148            | 2545.8      | 40160           | 2547        | 40173           | 2548.3      | 40185           | 2549.5      |                 |             |                 |             |
| M           | 40620            | 2593        | 40620           | 2593        | 40620           | 2593        | 40620           | 2593        |                 |             |                 |             |
| HMM         | 41093            | 2640.3      | 41080           | 2639        | 41068           | 2637.8      | 41055           | 2636.5      |                 |             |                 |             |
| H           | 41565            | 2687.5      | 41540           | 2685        | 41515           | 2682.5      | 41490           | 2680        |                 |             |                 |             |
| LTE Band 48 |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|             | Bandwidth 5MHz   |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |                 |             |                 |             |
|             | Ch. #            | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |                 |             |                 |             |
| L           | 55265            | 3552.5      | 55290           | 3555        | 55315           | 3557.5      | 55340           | 3560        |                 |             |                 |             |
| LMM         | 55810            | 3607        | 55815           | 3607.5      | 55820           | 3608        | 55830           | 3609        |                 |             |                 |             |
| M           | 55990            | 3625        | 55990           | 3625        | 55990           | 3625        | 55990           | 3625        |                 |             |                 |             |
| HMM         | 56170            | 3643        | 56165           | 3642.5      | 56160           | 3642        | 56150           | 3641        |                 |             |                 |             |
| H           | 56715            | 3697.5      | 56690           | 3695        | 56665           | 3692.5      | 56640           | 3690        |                 |             |                 |             |
| LTE Band 66 |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|             | Bandwidth 1.4MHz |             | Bandwidth 3MHz  |             | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |
|             | Ch. #            | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L           | 131979           | 1710.7      | 131987          | 1711.5      | 131997          | 1712.5      | 132022          | 1715        | 132047          | 1717.5      | 132072          | 1720        |
| M           | 132322           | 1745        | 132322          | 1745        | 132322          | 1745        | 132322          | 1745        | 132322          | 1745        | 132322          | 1745        |
| H           | 132665           | 1779.3      | 132657          | 1778.5      | 132647          | 1777.5      | 132622          | 1775        | 132597          | 1772.5      | 132572          | 1770        |
| LTE Band 71 |                  |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|             | Bandwidth 5MHz   |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |                 |             |                 |             |
|             | Ch. #            | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |                 |             |                 |             |
| L           | 133147           | 665.5       | 133172          | 668         | 133197          | 670.5       | 133222          | 673         |                 |             |                 |             |
| M           | 133297           | 680.5       | 133297          | 680.5       | 133297          | 680.5       | 133297          | 680.5       |                 |             |                 |             |
| H           | 133447           | 695.5       | 133422          | 693         | 133397          | 690.5       | 133372          | 688         |                 |             |                 |             |



## 2.4 General 5G NR SAR Test and Reporting Considerations

| 5G NR Information                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC ID                                                    | A4RGBC0H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Equipment Name                                            | Phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Operating Frequency Range of each 5G NR transmission band | 5G NR n2 : 1850 MHz ~ 1910 MHz<br>5G NR n5 : 824 MHz ~ 849 MHz<br>5G NR n7 : 2500 MHz ~ 2570 MHz<br>5G NR n12 : 699 MHz ~ 716 MHz<br>5G NR n13 : 777 MHz ~ 787 MHz<br>5G NR n14 : 788 MHz ~ 798 MHz<br>5G NR n25 : 1850 MHz ~ 1915 MHz<br>5G NR n26 : 814 MHz ~ 849 MHz<br>5G NR n30 : 2305 MHz ~ 2315 MHz<br>5G NR n38 : 2570 MHz ~ 2620 MHz<br>5G NR n41 : 2496 MHz ~ 2690 MHz<br>5G NR n48 : 3550 MHz ~ 3700 MHz<br>5G NR n66 : 1710 MHz ~ 1780 MHz<br>5G NR n70 : 1695 MHz ~ 1710 MHz<br>5G NR n71 : 663 MHz ~ 698 MHz<br>5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz<br>5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz                                                                                                                                                                                                                                                                   |
| Channel Bandwidth                                         | 5G NR n2: 5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 35MHz, 40MHz<br>5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz<br>5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 35MHz, 40MHz, 50MHz<br>5G NR n12: 5MHz, 10MHz, 15MHz<br>5G NR n13: 5MHz, 10MHz<br>5G NR n14: 5MHz, 10MHz<br>5G NR n25: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 35MHz, 40MHz<br>5G NR n26: 5MHz, 10MHz, 15MHz, 20MHz<br>5G NR n30: 5MHz, 10MHz<br>5G NR n38: 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz<br>5G NR n41: 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz<br>5G NR n48: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz<br>5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 35MHz, 40MHz, 45MHz<br>5G NR n70: 5MHz, 10MHz, 15MHz<br>5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 35MHz<br>5G NR n77/n78: 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz |
| SCS                                                       | FDD: SCS15KHz, TDD: SCS30KHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| uplink modulations used                                   | DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM<br>CP-OFDM QPSK / 16QAM / 64QAM / 256QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| A-MPR (Additional MPR) disabled for SAR Testing?          | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| LTE Anchor Band 2                                         | FR1 n2/5/7/12/25/30/38/41/48/66/71/77/78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| LTE Anchor Band 4                                         | FR1 n2/7/38/41/78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| LTE Anchor Band 5                                         | FR1 n2/7/30/38/41/66/77/78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| LTE Anchor Band 7                                         | FR1 n2/5/12/25/26/66/71/77/78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| LTE Anchor Band 12                                        | FR1 n2/7/25/30/38/41/66/77/78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| LTE Anchor Band 13                                        | FR1 n2/7/25/66/77/78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| LTE Anchor Band 14                                        | FR1 n2/30/66/77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| LTE Anchor Band 25                                        | FR1 n41/77/78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| LTE Anchor Band 26                                        | FR1 n41/78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| LTE Anchor Band 30                                        | FR1 n2/5/66/77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| LTE Anchor Band 38                                        | FR1 n78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| LTE Anchor Band 41                                        | FR1 n77/78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| LTE Anchor Band 48                                        | FR1 n2/5/12/25/66/71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| LTE Anchor Band 66                                        | FR1 n2/5/7/12/25/38/41/48/66/71/77/78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| LTE Anchor Band 71                                        | FR1 n2/7/38/41/48/66/77/78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |



| Transmission (H, M, L) channel numbers and frequencies in each FR1 band |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|-------------------------------------------------------------------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| FR1 n2                                                                  |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 35MHz |             | Bandwidth 40MHz |             |
|                                                                         | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 370500          | 1852.5      | 371000          | 1855        | 371500          | 1857.5      | 372000          | 1860        | 372500          | 1862.5      | 373000          | 1865        | 373500          | 1867.5      | 374000          | 1870        |
| M                                                                       | 376000          | 1880        | 376000          | 1880        | 376000          | 1880        | 376000          | 1880        | 376000          | 1880        | 376000          | 1880        | 376000          | 1880        | 376000          | 1880        |
| H                                                                       | 381500          | 1907.5      | 381000          | 1905        | 380500          | 1902.5      | 380000          | 1900        | 379500          | 1897.5      | 379000          | 1895        | 378500          | 1892.5      | 378000          | 1890        |
| FR1 n5                                                                  |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 35MHz |             | Bandwidth 40MHz |             |
|                                                                         | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 165300          | 826.5       |                 |             | 165800          |             |                 |             | 166300          |             |                 |             | 166800          |             |                 |             |
| M                                                                       | 167300          | 836.5       |                 |             | 167300          |             |                 |             | 167300          |             |                 |             | 167300          |             |                 |             |
| H                                                                       | 169300          | 846.5       |                 |             | 168800          |             |                 |             | 168300          |             |                 |             | 167800          |             |                 |             |
| FR1 n7                                                                  |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 35MHz |             | Bandwidth 40MHz |             |
|                                                                         | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 500500          | 2502.5      | 501000          | 2505        | 501500          | 2507.5      | 502000          | 2510        | 502500          | 2512.5      | 503000          | 2515        | 503500          | 2517.5      | 504000          | 2520        |
| M                                                                       | 507000          | 2535        | 507000          | 2535        | 507000          | 2535        | 507000          | 2535        | 507000          | 2535        | 507000          | 2535        | 507000          | 2535        | 507000          | 2535        |
| H                                                                       | 513500          | 2567.5      | 513000          | 2565        | 512500          | 2562.5      | 512000          | 2560        | 511500          | 2557.5      | 511000          | 2555        | 510500          | 2552.5      | 510000          | 2550        |
| FR1 n12                                                                 |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 35MHz |             | Bandwidth 40MHz |             |
|                                                                         | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 140300          |             |                 | 701.5       |                 |             | 140800          |             |                 | 704         |                 |             | 141300          |             |                 | 706.5       |
| M                                                                       | 141500          |             |                 | 707.5       |                 |             | 141500          |             |                 | 707.5       |                 |             | 141500          |             |                 | 707.5       |
| H                                                                       | 142700          |             |                 | 713.5       |                 |             | 142200          |             |                 | 711         |                 |             | 141700          |             |                 | 708.5       |
| FR1 n13                                                                 |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 35MHz |             | Bandwidth 40MHz |             |
|                                                                         | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 155900          |             |                 | 779.5       |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
| M                                                                       | 156400          |             |                 | 782         |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
| H                                                                       | 156900          |             |                 | 784.5       |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
| FR1 n14                                                                 |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 35MHz |             | Bandwidth 40MHz |             |
|                                                                         | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 158100          |             |                 | 790.5       |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
| M                                                                       | 158600          |             |                 | 793         |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
| H                                                                       | 159100          |             |                 | 795.5       |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
| FR1 n25                                                                 |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 35MHz |             | Bandwidth 40MHz |             |
|                                                                         | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 370500          | 1852.5      | 371000          | 1855        | 371500          | 1857.5      | 372000          | 1860        | 372500          | 1862.5      | 373000          | 1865        | 373500          | 1867.5      | 374000          | 1870        |
| M                                                                       | 376500          | 1882.5      | 376500          | 1882.5      | 376500          | 1882.5      | 376500          | 1882.5      | 376500          | 1882.5      | 376500          | 1882.5      | 376500          | 1882.5      | 376500          | 1882.5      |
| H                                                                       | 382500          | 1912.5      | 382000          | 1910        | 381500          | 1907.5      | 381000          | 1905        | 380500          | 1902.5      | 380000          | 1900        | 379500          | 1897.5      | 379000          | 1895        |
| FR1 n26                                                                 |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 3MHz  |             | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 35MHz |             |
|                                                                         | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 163100          | 815.5       | 163300          | 816.5       | 163800          | 819         | 164300          | 821.5       | 164800          | 824         | 165300          | 826.5       | 165800          | 829         | 166300          | 831.5       |
| M                                                                       | 166300          | 831.5       | 166300          | 831.5       | 166300          | 831.5       | 166300          | 831.5       | 166300          | 831.5       | 166300          | 831.5       | 166300          | 831.5       | 166300          | 831.5       |
| H                                                                       | 169500          | 847.5       | 169300          | 846.5       | 168800          | 844         | 168300          | 841.5       | 167800          | 839         | 167300          | 836.5       | 166800          | 833.5       | 166300          | 831.5       |
| FR1 n30                                                                 |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 35MHz |             | Bandwidth 40MHz |             |
|                                                                         | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 461500          |             |                 | 2307.5      |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
| M                                                                       | 462000          |             |                 | 2310        |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
| H                                                                       | 462500          |             |                 | 2312.5      |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
| FR1 n38                                                                 |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |
|                                                                         | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 35MHz |             | Bandwidth 40MHz |             | Bandwidth 45MHz |             |
|                                                                         | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                       | 515000          | 2575        | 515500          | 2577.5      | 516000          | 2580        | 516500          | 2582.5      | 517000          | 2585        | 517500          | 2587.5      | 518000          | 2590        | 518500          | 2592.5      |
| M                                                                       | 519000          | 2595        | 519000          | 2595        | 519000          | 2595        | 519000          | 2595        | 519000          | 2595        | 519000          | 2595        | 519000          | 2595        | 519000          | 2595        |
| H                                                                       | 523000          | 2615        | 522500          | 2612.5      | 522000          | 2610        | 521500          | 2607.5      | 521000          | 2605        | 520500          | 2602.5      | 520000          | 2600        | 519500          | 2597.5      |



# FCC SAR TEST REPORT

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| FR1 n41       |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                  |             |
|---------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|------------------|-------------|
|               | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 40MHz |             | Bandwidth 50MHz |             | Bandwidth 60MHz |             | Bandwidth 70MHz |             | Bandwidth 80MHz |             | Bandwidth 90MHz |             | Bandwidth 100MHz |             |
|               | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L             | 500202          | 2501.01     | 500700          | 2503.5      | 501204          | 2506.02     | 501702          | 2508.51     | 502200          | 2511        | 503202          | 2516.01     | 504204          | 2521.02     | 505200          | 2526        | 506202          | 2531.01     | 507204          | 2536.02     | 508200          | 2541        | 509202           | 2546.01     |
| M             | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598           | 2592.99     |
| H             | 537000          | 2685        | 536496          | 2682.48     | 535998          | 2679.99     | 535500          | 2677.5      | 534996          | 2674.98     | 534000          | 2670        | 532998          | 2664.99     | 531996          | 2659.98     | 531000          | 2655        | 529998          | 2649.99     | 528996          | 2644.98     | 528000           | 2640        |
| FR1 n48       |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                  |             |
|               | Bandwidth 10MHz |             |                 |             | Bandwidth 15MHz |             |                 |             | Bandwidth 20MHz |             |                 |             | Bandwidth 30MHz |             |                 |             | Bandwidth 40MHz |             |                 |             |                 |             |                  |             |
|               | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)      |             |
| L             | 637000          |             | 3555            |             | 637168          |             | 3557.52         |             | 637334          |             | 3560.01         |             | 637668          |             | 3565.02         |             | 638000          |             | 3570            |             |                 |             |                  |             |
| M             | 641666          |             | 3624.99         |             | 641666          |             | 3624.99         |             | 641666          |             | 3624.99         |             | 641666          |             | 3624.99         |             | 641666          |             | 3624.99         |             |                 |             |                  |             |
| H             | 646332          |             | 3694.98         |             | 646166          |             | 3692.49         |             | 646000          |             | 3690            |             | 645666          |             | 3684.99         |             | 645332          |             | 3679.98         |             |                 |             |                  |             |
| FR1 n66       |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                  |             |
|               | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 35MHz |             | Bandwidth 40MHz |             | Bandwidth 45MHz |             |                 |             |                 |             |                  |             |
|               | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L             | 342500          | 1712.5      | 343000          | 1715        | 343500          | 1717.5      | 344000          | 1720        | 344500          | 1722.5      | 345000          | 1725        | 345500          | 1727.5      | 346000          | 1730        | 346500          | 1732.5      |                 |             |                 |             |                  |             |
| M             | 349000          | 1745        | 349000          | 1745        | 349000          | 1745        | 349000          | 1745        | 349000          | 1745        | 349000          | 1745        | 349000          | 1745        | 349000          | 1745        | 349000          | 1745        |                 |             |                 |             |                  |             |
| H             | 355500          | 1777.5      | 355000          | 1775        | 354500          | 1772.5      | 354000          | 1770        | 353500          | 1767.5      | 353000          | 1765        | 352500          | 1762.5      | 352000          | 1760        | 351500          | 1757.5      |                 |             |                 |             |                  |             |
| FR1 n70       |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                  |             |
|               | Bandwidth 5MHz  |             |                 |             | Bandwidth 10MHz |             |                 |             | Bandwidth 10MHz |             |                 |             | Bandwidth 15MHz |             |                 |             | Bandwidth 15MHz |             |                 |             |                 |             |                  |             |
|               | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)     |             | Ch. #           |             | Freq. (MHz)      |             |
| L             | 339500          |             | 1697.5          |             | 340000          |             | 1700            |             | 340500          |             | 1702.5          |             | 340500          |             | 1702.5          |             | 340500          |             | 1702.5          |             |                 |             |                  |             |
| M             | 340500          |             | 1702.5          |             | 340500          |             | 1702.5          |             | 340500          |             | 1702.5          |             | 340500          |             | 1702.5          |             | 340500          |             | 1702.5          |             |                 |             |                  |             |
| H             | 341500          |             | 1707.5          |             | 341000          |             | 1705            |             | 341000          |             | 1705            |             | 341000          |             | 1705            |             | 341000          |             | 1705            |             |                 |             |                  |             |
| FR1 n71       |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                  |             |
|               | Bandwidth 5MHz  |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 35MHz |             | Bandwidth 40MHz |             | Bandwidth 45MHz |             |                 |             |                 |             |                  |             |
|               | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L             | 133100          | 665.5       | 133600          | 668         | 134100          | 670.5       | 134600          | 673         | 135100          | 675.5       | 135600          | 678         | 136100          | 680.5       | 136600          | 683         | 137100          | 685.5       | 137600          | 688         | 138100          | 690.5       | 138600           | 693         |
| M             | 136100          | 680.5       | 136100          | 680.5       | 136100          | 680.5       | 136100          | 680.5       | 136100          | 680.5       | 136100          | 680.5       | 136100          | 680.5       | 136100          | 680.5       | 136100          | 680.5       | 136100          | 680.5       | 136100          | 680.5       | 136100           | 680.5       |
| H             | 139100          | 695.5       | 138600          | 693         | 138100          | 690.5       | 137600          | 688         | 137100          | 685.5       | 136600          | 683         | 136100          | 680.5       | 135600          | 678         | 135100          | 675.5       | 134600          | 673         | 134100          | 670.5       | 133600           | 668         |
| FR1 n77 (27Q) |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                  |             |
|               | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 40MHz |             | Bandwidth 50MHz |             | Bandwidth 60MHz |             | Bandwidth 70MHz |             | Bandwidth 80MHz |             | Bandwidth 90MHz |             | Bandwidth 100MHz |             |
|               | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L             | 630334          | 3455.01     | 630500          | 3457.5      | 630668          | 3460.02     | 630834          | 3462.51     | 631000          | 3465        | 631334          | 3470.01     | 631668          | 3475.02     | 632000          | 3480        | 632334          | 3485.01     | 632668          | 3490.02     | 633000          | 3495        | 633332           | 3499.98     |
| M             | 633332          | 3499.98     | 633332          | 3499.98     | 633332          | 3499.98     | 633332          | 3499.98     | 633332          | 3499.98     | 633332          | 3499.98     | 633332          | 3499.98     | 633332          | 3499.98     | 633332          | 3499.98     | 633332          | 3499.98     | 633332          | 3499.98     | 633332           | 3499.98     |
| H             | 636332          | 3544.98     | 636166          | 3542.49     | 636000          | 3540        | 635832          | 3537.48     | 635666          | 3534.99     | 635332          | 3529.98     | 635000          | 3525        | 634666          | 3519.99     | 634332          | 3514.98     | 634000          | 3510        | 633666          | 3504.99     | 633332           | 3499.98     |
| FR1 n77 (27Q) |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                  |             |
|               | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 25MHz |             | Bandwidth 30MHz |             | Bandwidth 40MHz |             | Bandwidth 50MHz |             | Bandwidth 60MHz |             | Bandwidth 70MHz |             | Bandwidth 80MHz |             | Bandwidth 90MHz |             | Bandwidth 100MHz |             |
|               | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           |             |                  |             |

### **3. TAS feature for RF Exposure compliance**

The FCC RF exposure limit is based on time-averaged RF exposure. Both SAR regulatory specifications are defined over certain measurement duration allowing for time-averaging. The MediaTek TA-SAR v2 algorithm has been designed to meet the compliance limits over the required duration, while still allowing dynamic control of transmit power for meeting system performance. Under the control of TAS algorithm, the device can transmit at high power up to Pmax for certain interval, but the average power will be maintained not exceeding the pre-defined averaged level (Plimit), and thus maintain the time-averaged RF exposure compliance

|                      |                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pmax                 | Maximum Tx power that can be transmitted physically from RFIC for a given RAT                                                                                                         |
| SAR_FCC_limit        | SAR limit specified by FCC 1.6 W/kg averaged over 1-gram, for head and body exposure                                                                                                  |
| SAR_target           | Target SAR level used in TAS algorithm. This SAR value should be less than FCC limit and should be determined after accounting for all uncertainties and other design considerations. |
| Plimit               | The time-averaged RF power that corresponds to SAR_target.                                                                                                                            |
| SAR characterization | Characterization of SAR value for all sub6GHz technologies                                                                                                                            |

### 3.1 SAR Characterization – Power Table

**General Note:**

1. Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + device uncertainty.
2. All Plimit power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM& LTE TDD & NR TDD).
3. The max allowed output power is the Plimit + device uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.

#### <P<sub>limit</sub> for supported technologies and bands>

| Wireless Tech.           | Band  | Mode    | Antenna | Duty cycle | Head       |              | Hotspot      | Body-worn/Extremity |              | P Max<br>Time-average power (dBm) |
|--------------------------|-------|---------|---------|------------|------------|--------------|--------------|---------------------|--------------|-----------------------------------|
|                          |       |         |         |            | ECI 2      | ECI 3        | ECI 6        | ECI 4               | ECI 5        |                                   |
|                          |       |         |         |            | Standalone | Simultaneous | Simultaneous | Standalone          | Simultaneous |                                   |
|                          |       |         |         |            | P limit    |              |              |                     |              |                                   |
| Time-average power (dBm) |       |         |         |            |            |              |              |                     |              |                                   |
| GSM                      | B850  | 1TX     | Ant0    | 12.50%     | 30.80      | 30.80        | 21.40        | 21.40               | 21.40        | 23.50                             |
| GPRS                     | B850  | 1TX     | Ant0    | 12.50%     | 30.80      | 30.80        | 21.40        | 21.40               | 21.40        | 23.50                             |
| GPRS                     | B850  | 2TX     | Ant0    | 25.00%     | 30.80      | 30.80        | 21.40        | 21.40               | 21.40        | 25.30                             |
| GPRS                     | B850  | 3TX     | Ant0    | 37.50%     | 30.80      | 30.80        | 21.40        | 21.40               | 21.40        | 26.10                             |
| GPRS                     | B850  | 4TX     | Ant0    | 50.00%     | 30.80      | 30.80        | 21.40        | 21.40               | 21.40        | 26.30                             |
| EGPRS                    | B850  | 1TX     | Ant0    | 12.50%     | 30.80      | 30.80        | 21.40        | 21.40               | 21.40        | 17.30                             |
| EGPRS                    | B850  | 2TX     | Ant0    | 25.00%     | 30.80      | 30.80        | 21.40        | 21.40               | 21.40        | 19.30                             |
| EGPRS                    | B850  | 3TX     | Ant0    | 37.50%     | 30.80      | 30.80        | 21.40        | 21.40               | 21.40        | 20.10                             |
| EGPRS                    | B850  | 4TX     | Ant0    | 50.00%     | 30.80      | 30.80        | 21.40        | 21.40               | 21.40        | 20.30                             |
| GSM                      | B850  | 1TX     | Ant1    | 12.50%     | 22.40      | 21.70        | 24.90        | 25.40               | 24.90        | 23.30                             |
| GPRS                     | B850  | 1TX     | Ant1    | 12.50%     | 22.40      | 21.70        | 24.90        | 25.40               | 24.90        | 23.30                             |
| GPRS                     | B850  | 2TX     | Ant1    | 25.00%     | 22.40      | 21.70        | 24.90        | 25.40               | 24.90        | 25.10                             |
| GPRS                     | B850  | 3TX     | Ant1    | 37.50%     | 22.40      | 21.70        | 24.90        | 25.40               | 24.90        | 25.90                             |
| GPRS                     | B850  | 4TX     | Ant1    | 50.00%     | 22.40      | 21.70        | 24.90        | 25.40               | 24.90        | 26.10                             |
| EGPRS                    | B850  | 1TX     | Ant1    | 12.50%     | 22.40      | 21.70        | 24.90        | 25.40               | 24.90        | 17.10                             |
| EGPRS                    | B850  | 2TX     | Ant1    | 25.00%     | 22.40      | 21.70        | 24.90        | 25.40               | 24.90        | 19.10                             |
| EGPRS                    | B850  | 3TX     | Ant1    | 37.50%     | 22.40      | 21.70        | 24.90        | 25.40               | 24.90        | 19.90                             |
| EGPRS                    | B850  | 4TX     | Ant1    | 50.00%     | 22.40      | 21.70        | 24.90        | 25.40               | 24.90        | 20.10                             |
| GSM                      | B1900 | 1TX     | Ant2    | 12.50%     | 27.40      | 27.40        | 19.50        | 20.30               | 19.50        | 20.40                             |
| GPRS                     | B1900 | 1TX     | Ant2    | 12.50%     | 27.40      | 27.40        | 19.50        | 20.30               | 19.50        | 20.40                             |
| GPRS                     | B1900 | 2TX     | Ant2    | 25.00%     | 27.40      | 27.40        | 19.50        | 20.30               | 19.50        | 21.90                             |
| GPRS                     | B1900 | 3TX     | Ant2    | 37.50%     | 27.40      | 27.40        | 19.50        | 20.30               | 19.50        | 23.20                             |
| GPRS                     | B1900 | 4TX     | Ant2    | 50.00%     | 27.40      | 27.40        | 19.50        | 20.30               | 19.50        | 23.40                             |
| EGPRS                    | B1900 | 1TX     | Ant2    | 12.50%     | 27.40      | 27.40        | 19.50        | 20.30               | 19.50        | 16.40                             |
| EGPRS                    | B1900 | 2TX     | Ant2    | 25.00%     | 27.40      | 27.40        | 19.50        | 20.30               | 19.50        | 18.40                             |
| EGPRS                    | B1900 | 3TX     | Ant2    | 37.50%     | 27.40      | 27.40        | 19.50        | 20.30               | 19.50        | 19.20                             |
| EGPRS                    | B1900 | 4TX     | Ant2    | 50.00%     | 27.40      | 27.40        | 19.50        | 20.30               | 19.50        | 19.40                             |
| GSM                      | B1900 | 1TX     | Ant0    | 12.50%     | 35.40      | 35.40        | 14.40        | 15.80               | 14.40        | 20.20                             |
| GPRS                     | B1900 | 1TX     | Ant0    | 12.50%     | 35.40      | 35.40        | 14.40        | 15.80               | 14.40        | 20.20                             |
| GPRS                     | B1900 | 2TX     | Ant0    | 25.00%     | 35.40      | 35.40        | 14.40        | 15.80               | 14.40        | 21.70                             |
| GPRS                     | B1900 | 3TX     | Ant0    | 37.50%     | 35.40      | 35.40        | 14.40        | 15.80               | 14.40        | 23.00                             |
| GPRS                     | B1900 | 4TX     | Ant0    | 50.00%     | 35.40      | 35.40        | 14.40        | 15.80               | 14.40        | 23.20                             |
| EGPRS                    | B1900 | 1TX     | Ant0    | 12.50%     | 35.40      | 35.40        | 14.40        | 15.80               | 14.40        | 16.20                             |
| EGPRS                    | B1900 | 2TX     | Ant0    | 25.00%     | 35.40      | 35.40        | 14.40        | 15.80               | 14.40        | 18.20                             |
| EGPRS                    | B1900 | 3TX     | Ant0    | 37.50%     | 35.40      | 35.40        | 14.40        | 15.80               | 14.40        | 19.00                             |
| EGPRS                    | B1900 | 4TX     | Ant0    | 50.00%     | 35.40      | 35.40        | 14.40        | 15.80               | 14.40        | 19.20                             |
| WCDMA                    | B2    | RMC12.2 | Ant2    | 100.00%    | 25.70      | 24.40        | 18.30        | 19.20               | 18.30        | 24.50                             |
| WCDMA                    | B2    | RMC12.2 | Ant0    | 100.00%    | 34.80      | 34.80        | 14.00        | 14.90               | 14.00        | 23.90                             |
| WCDMA                    | B4    | RMC12.2 | Ant2    | 100.00%    | 28.30      | 28.30        | 19.70        | 20.90               | 19.70        | 24.50                             |
| WCDMA                    | B4    | RMC12.2 | Ant0    | 100.00%    | 33.20      | 33.20        | 14.20        | 15.60               | 14.20        | 23.90                             |
| WCDMA                    | B5    | RMC12.2 | Ant0    | 100.00%    | 30.00      | 30.00        | 20.50        | 20.50               | 20.50        | 24.50                             |



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|       |                 |         |      |         |       |       |       |       |       |       |
|-------|-----------------|---------|------|---------|-------|-------|-------|-------|-------|-------|
| WCDMA | B5              | RMC12.2 | Ant1 | 100.00% | 21.70 | 21.00 | 24.10 | 24.80 | 24.10 | 23.90 |
| LTE   | B2              | PC3     | Ant2 | 100.00% | 25.50 | 23.90 | 17.70 | 19.10 | 17.70 | 24.00 |
| LTE   | B2              | PC3     | Ant0 | 100.00% | 46.90 | 46.90 | 14.20 | 15.00 | 14.20 | 23.90 |
| LTE   | B2              | PC3     | Ant1 | 100.00% | 16.40 | 16.20 | 17.70 | 18.40 | 17.70 | 24.00 |
| LTE   | B2              | PC3     | Ant5 | 100.00% | 16.90 | 15.70 | 16.20 | 17.60 | 16.20 | 23.90 |
| LTE   | B4              | PC3     | Ant2 | 100.00% | 28.70 | 28.70 | 19.40 | 19.70 | 19.40 | 24.00 |
| LTE   | B4              | PC3     | Ant0 | 100.00% | 37.90 | 37.90 | 13.90 | 15.90 | 13.90 | 23.90 |
| LTE   | B4              | PC3     | Ant1 | 100.00% | 20.00 | 19.20 | 20.50 | 21.20 | 20.50 | 24.00 |
| LTE   | B4              | PC3     | Ant5 | 100.00% | 17.60 | 16.30 | 16.40 | 17.80 | 16.40 | 23.90 |
| LTE   | B5 / 5B         | PC3     | Ant0 | 100.00% | 29.20 | 29.20 | 20.50 | 20.50 | 20.50 | 24.00 |
| LTE   | B5 / 5B         | PC3     | Ant1 | 100.00% | 22.80 | 22.00 | 24.50 | 25.30 | 24.50 | 23.90 |
| LTE   | B7 / 7C         | PC3     | Ant2 | 100.00% | 23.40 | 22.00 | 15.80 | 17.20 | 15.80 | 24.00 |
| LTE   | B7 / 7C         | PC3     | Ant0 | 100.00% | 31.50 | 31.50 | 15.40 | 17.10 | 15.40 | 24.00 |
| LTE   | B12             | PC3     | Ant0 | 100.00% | 30.00 | 30.00 | 22.20 | 22.20 | 22.20 | 24.00 |
| LTE   | B12             | PC3     | Ant1 | 100.00% | 24.10 | 23.40 | 25.10 | 25.80 | 25.10 | 23.80 |
| LTE   | B13             | PC3     | Ant0 | 100.00% | 29.60 | 29.60 | 20.60 | 20.60 | 20.60 | 24.00 |
| LTE   | B13             | PC3     | Ant1 | 100.00% | 24.20 | 23.40 | 25.50 | 25.80 | 25.50 | 23.80 |
| LTE   | B14             | PC3     | Ant0 | 100.00% | 29.40 | 29.40 | 20.90 | 20.90 | 20.90 | 24.00 |
| LTE   | B14             | PC3     | Ant1 | 100.00% | 24.20 | 23.40 | 24.40 | 24.40 | 24.40 | 23.80 |
| LTE   | B17             | PC3     | Ant0 | 100.00% | 30.00 | 30.00 | 22.20 | 22.20 | 22.20 | 24.00 |
| LTE   | B17             | PC3     | Ant1 | 100.00% | 24.10 | 23.40 | 25.10 | 25.80 | 25.10 | 23.80 |
| LTE   | B25             | PC3     | Ant2 | 100.00% | 25.50 | 23.90 | 17.70 | 19.60 | 17.70 | 24.00 |
| LTE   | B25             | PC3     | Ant0 | 100.00% | 46.90 | 46.90 | 14.20 | 15.00 | 14.20 | 23.90 |
| LTE   | B25             | PC3     | Ant1 | 100.00% | 16.40 | 16.20 | 17.70 | 18.40 | 17.70 | 24.00 |
| LTE   | B25             | PC3     | Ant5 | 100.00% | 16.90 | 15.70 | 16.20 | 17.60 | 16.20 | 23.90 |
| LTE   | B26             | PC3     | Ant0 | 100.00% | 29.20 | 29.20 | 20.50 | 20.50 | 20.50 | 24.00 |
| LTE   | B26             | PC3     | Ant1 | 100.00% | 22.80 | 22.00 | 24.50 | 25.30 | 24.50 | 23.90 |
| LTE   | B30             | PC3     | Ant2 | 100.00% | 24.80 | 23.50 | 16.30 | 17.70 | 16.30 | 23.50 |
| LTE   | B30             | PC3     | Ant0 | 100.00% | 35.10 | 35.10 | 14.30 | 17.20 | 14.30 | 22.60 |
| LTE   | B38 / 38C       | PC3     | Ant2 | 63.30%  | 24.50 | 21.90 | 16.00 | 16.30 | 16.00 | 22.00 |
| LTE   | B38             | PC2     | Ant2 | 43.30%  | 24.50 | 21.90 | 16.00 | 16.30 | 16.00 | 22.30 |
| LTE   | B38 / 38C       | PC3     | Ant0 | 63.30%  | 32.30 | 32.30 | 15.10 | 15.90 | 15.10 | 21.90 |
| LTE   | B38             | PC2     | Ant0 | 43.30%  | 32.30 | 32.30 | 15.10 | 15.90 | 15.10 | 22.20 |
| LTE   | B38 / 38C       | PC3     | Ant1 | 63.30%  | 16.00 | 15.30 | 15.70 | 17.60 | 15.70 | 22.00 |
| LTE   | B38             | PC2     | Ant1 | 43.30%  | 16.00 | 15.30 | 15.70 | 17.60 | 15.70 | 22.30 |
| LTE   | B38 / 38C       | PC3     | Ant5 | 63.30%  | 15.80 | 15.10 | 15.10 | 18.50 | 15.10 | 21.90 |
| LTE   | B38             | PC2     | Ant5 | 43.30%  | 15.80 | 15.10 | 15.10 | 18.50 | 15.10 | 22.10 |
| LTE   | B41 / 41C       | PC3     | Ant2 | 63.30%  | 24.50 | 21.90 | 16.00 | 16.30 | 16.00 | 22.00 |
| LTE   | B41             | PC2     | Ant2 | 43.30%  | 24.50 | 21.90 | 16.00 | 16.30 | 16.00 | 22.30 |
| LTE   | B41 / 41C       | PC3     | Ant0 | 63.30%  | 32.30 | 32.30 | 15.10 | 15.90 | 15.10 | 21.90 |
| LTE   | B41             | PC2     | Ant0 | 43.30%  | 32.30 | 32.30 | 15.10 | 15.90 | 15.10 | 22.20 |
| LTE   | B41 / 41C       | PC3     | Ant1 | 63.30%  | 16.00 | 15.30 | 15.70 | 17.60 | 15.70 | 22.00 |
| LTE   | B41             | PC2     | Ant1 | 43.30%  | 16.00 | 15.30 | 15.70 | 17.60 | 15.70 | 22.30 |
| LTE   | B41 / 41C       | PC3     | Ant5 | 63.30%  | 15.80 | 15.10 | 15.10 | 18.50 | 15.10 | 22.00 |
| LTE   | B41             | PC2     | Ant5 | 43.30%  | 15.80 | 15.10 | 15.10 | 18.50 | 15.10 | 22.30 |
| LTE   | B48             | PC3     | Ant6 | 63.30%  | 26.60 | 26.60 | 14.60 | 16.00 | 14.60 | 19.00 |
| LTE   | B48             | PC3     | Ant7 | 63.30%  | 29.10 | 29.10 | 15.40 | 16.80 | 15.40 | 19.70 |
| LTE   | B48             | PC3     | Ant1 | 63.30%  | 15.70 | 15.00 | 13.30 | 15.90 | 13.30 | 19.60 |
| LTE   | B48             | PC3     | Ant5 | 63.30%  | 17.90 | 17.20 | 17.10 | 17.80 | 17.10 | 22.00 |
| LTE   | B66 / 66C / 66B | PC3     | Ant2 | 100.00% | 28.70 | 28.70 | 19.40 | 19.70 | 19.40 | 24.00 |
| LTE   | B66 / 66C / 66B | PC3     | Ant0 | 100.00% | 37.90 | 37.90 | 13.90 | 15.90 | 13.90 | 23.90 |
| LTE   | B66 / 66C / 66B | PC3     | Ant1 | 100.00% | 20.00 | 19.20 | 20.50 | 21.20 | 20.50 | 24.00 |
| LTE   | B66 / 66C / 66B | PC3     | Ant5 | 100.00% | 17.60 | 16.30 | 16.40 | 17.80 | 16.40 | 24.00 |
| LTE   | B71             | PC3     | Ant0 | 100.00% | 30.10 | 30.10 | 23.70 | 23.80 | 23.70 | 24.00 |
| LTE   | B71             | PC3     | Ant1 | 100.00% | 23.10 | 22.40 | 26.00 | 26.70 | 26.00 | 23.80 |
| NR    | n2              | PC3     | Ant2 | 100.00% | 26.20 | 26.20 | 18.10 | 18.80 | 18.10 | 24.00 |



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|----|-------------------|-------|------|---------|-------|-------|-------|-------|-------|-------|
| NR | n2                | PC3   | Ant0 | 100.00% | 38.20 | 38.20 | 14.00 | 15.00 | 14.00 | 23.90 |
| NR | n2                | PC3   | Ant1 | 100.00% | 16.90 | 16.70 | 17.70 | 18.40 | 17.70 | 24.00 |
| NR | n2                | PC3   | Ant5 | 100.00% | 17.60 | 16.90 | 16.90 | 18.30 | 16.90 | 23.90 |
| NR | n5                | PC3   | Ant0 | 100.00% | 29.80 | 29.10 | 20.70 | 20.70 | 20.70 | 24.00 |
| NR | n5                | PC3   | Ant1 | 100.00% | 22.80 | 22.80 | 25.00 | 25.80 | 25.00 | 23.90 |
| NR | n7                | PC3   | Ant2 | 100.00% | 23.60 | 22.20 | 15.80 | 16.80 | 15.80 | 24.00 |
| NR | n7                | PC3   | Ant0 | 100.00% | 29.00 | 29.00 | 15.50 | 16.90 | 15.50 | 24.00 |
| NR | n12               | PC3   | Ant0 | 100.00% | 30.80 | 30.10 | 22.80 | 22.80 | 22.80 | 24.00 |
| NR | n12               | PC3   | Ant1 | 100.00% | 23.30 | 22.60 | 26.10 | 26.40 | 26.10 | 23.80 |
| NR | n13               | PC3   | Ant0 | 100.00% | 30.10 | 29.30 | 21.30 | 21.30 | 21.30 | 24.00 |
| NR | n13               | PC3   | Ant1 | 100.00% | 24.40 | 23.70 | 23.70 | 25.10 | 23.70 | 23.80 |
| NR | n14               | PC3   | Ant0 | 100.00% | 30.20 | 29.50 | 21.40 | 21.60 | 21.40 | 24.00 |
| NR | n14               | PC3   | Ant1 | 100.00% | 23.30 | 22.90 | 26.10 | 26.20 | 26.10 | 23.80 |
| NR | n25               | PC3   | Ant2 | 100.00% | 26.20 | 26.20 | 18.10 | 18.80 | 18.10 | 24.00 |
| NR | n25               | PC3   | Ant0 | 100.00% | 38.20 | 38.20 | 14.00 | 15.00 | 14.00 | 23.90 |
| NR | n25               | PC3   | Ant1 | 100.00% | 16.90 | 16.70 | 17.70 | 18.40 | 17.70 | 24.00 |
| NR | n25               | PC3   | Ant5 | 100.00% | 17.60 | 16.90 | 16.90 | 18.30 | 16.90 | 23.90 |
| NR | n26               | PC3   | Ant0 | 100.00% | 29.80 | 29.10 | 20.70 | 20.70 | 20.70 | 24.00 |
| NR | n26               | PC3   | Ant1 | 100.00% | 22.80 | 22.80 | 25.00 | 25.80 | 25.00 | 23.90 |
| NR | n30               | PC3   | Ant2 | 100.00% | 25.90 | 25.90 | 16.20 | 18.20 | 16.20 | 23.50 |
| NR | n30               | PC3   | Ant0 | 100.00% | 36.00 | 36.00 | 14.50 | 17.10 | 14.50 | 22.60 |
| NR | n38               | PC3   | Ant2 | 100.00% | 23.80 | 22.60 | 16.20 | 17.60 | 16.20 | 24.00 |
| NR | n38               | PC3   | Ant0 | 100.00% | 31.60 | 31.60 | 14.80 | 16.10 | 14.80 | 23.90 |
| NR | n38               | PC3   | Ant1 | 100.00% | 17.30 | 16.60 | 17.20 | 20.00 | 17.20 | 24.00 |
| NR | n38               | PC3   | Ant5 | 100.00% | 16.50 | 16.50 | 15.70 | 18.30 | 15.70 | 23.90 |
| NR | n41 / n41C / n41B | PC3   | Ant2 | 100.00% | 23.80 | 22.60 | 16.20 | 17.60 | 16.20 | 24.00 |
| NR | n41               | PC2   | Ant2 | 50.00%  | 23.80 | 22.60 | 16.20 | 17.60 | 16.20 | 22.90 |
| NR | n41               | PC1.5 | Ant2 | 25.00%  | 23.80 | 22.60 | 16.20 | 17.60 | 16.20 | 19.90 |
| NR | n41 / n41C / n41B | PC3   | Ant0 | 100.00% | 31.60 | 31.60 | 14.80 | 16.10 | 14.80 | 23.90 |
| NR | n41               | PC2   | Ant0 | 50.00%  | 31.60 | 31.60 | 14.80 | 16.10 | 14.80 | 22.80 |
| NR | n41               | PC1.5 | Ant0 | 25.00%  | 31.60 | 31.60 | 14.80 | 16.10 | 14.80 | 19.80 |
| NR | n41 / n41C / n41B | PC3   | Ant1 | 100.00% | 17.30 | 16.60 | 17.20 | 20.00 | 17.20 | 24.00 |
| NR | n41               | PC2   | Ant1 | 50.00%  | 17.30 | 16.60 | 17.20 | 20.00 | 17.20 | 22.90 |
| NR | n41               | PC1.5 | Ant1 | 25.00%  | 17.30 | 16.60 | 17.20 | 20.00 | 17.20 | 19.90 |
| NR | n41 / n41C / n41B | PC3   | Ant5 | 100.00% | 16.50 | 16.50 | 15.70 | 18.30 | 15.70 | 24.00 |
| NR | n41               | PC2   | Ant5 | 50.00%  | 16.50 | 16.50 | 15.70 | 18.30 | 15.70 | 22.90 |
| NR | n41               | PC1.5 | Ant5 | 25.00%  | 16.50 | 16.50 | 15.70 | 18.30 | 15.70 | 19.90 |
| NR | n48               | PC3   | Ant6 | 100.00% | 27.00 | 27.00 | 14.30 | 16.60 | 14.30 | 21.00 |
| NR | n48               | PC3   | Ant7 | 100.00% | 25.90 | 25.90 | 14.90 | 17.20 | 14.90 | 21.70 |
| NR | n48               | PC3   | Ant1 | 100.00% | 19.30 | 18.50 | 16.50 | 19.40 | 16.50 | 21.60 |
| NR | n48               | PC3   | Ant5 | 100.00% | 18.10 | 17.40 | 18.40 | 19.10 | 18.40 | 23.50 |
| NR | n66               | PC3   | Ant2 | 100.00% | 28.50 | 28.50 | 19.30 | 20.00 | 19.30 | 24.00 |
| NR | n66               | PC3   | Ant0 | 100.00% | 33.50 | 33.50 | 14.40 | 15.80 | 14.40 | 23.90 |
| NR | n66               | PC3   | Ant1 | 100.00% | 19.30 | 18.60 | 20.70 | 21.40 | 20.70 | 24.00 |
| NR | n66               | PC3   | Ant5 | 100.00% | 18.80 | 18.10 | 17.10 | 18.00 | 17.10 | 23.90 |
| NR | n70               | PC3   | Ant2 | 100.00% | 28.80 | 28.80 | 20.00 | 20.00 | 20.00 | 23.80 |
| NR | n70               | PC3   | Ant0 | 100.00% | 34.10 | 34.10 | 15.50 | 15.80 | 15.50 | 23.70 |
| NR | n70               | PC3   | Ant1 | 100.00% | 21.40 | 20.70 | 23.00 | 23.70 | 23.00 | 23.80 |
| NR | n70               | PC3   | Ant5 | 100.00% | 18.30 | 16.90 | 17.10 | 18.50 | 17.10 | 23.60 |
| NR | n71               | PC3   | Ant0 | 100.00% | 30.40 | 29.70 | 22.80 | 23.20 | 22.80 | 24.00 |
| NR | n71               | PC3   | Ant1 | 100.00% | 24.30 | 23.50 | 27.20 | 27.50 | 27.20 | 23.80 |
| NR | n77 / n77C        | PC3   | Ant6 | 100.00% | 24.60 | 21.50 | 13.00 | 14.40 | 13.00 | 24.00 |
| NR | n77               | PC2   | Ant6 | 50.00%  | 24.60 | 21.50 | 13.00 | 14.40 | 13.00 | 23.00 |
| NR | n77               | PC1.5 | Ant6 | 25.00%  | 24.60 | 21.50 | 13.00 | 14.40 | 13.00 | 20.00 |
| NR | n77 / n77C        | PC3   | Ant7 | 100.00% | 25.40 | 25.40 | 14.70 | 17.20 | 14.70 | 23.50 |
| NR | n77               | PC2   | Ant7 | 50.00%  | 25.40 | 25.40 | 14.70 | 17.20 | 14.70 | 22.50 |



# FCC SAR TEST REPORT

Report No. : FA5N0803-01C

|     |            |       |      |         |       |       |       |       |       |       |
|-----|------------|-------|------|---------|-------|-------|-------|-------|-------|-------|
| NR  | n77        | PC1.5 | Ant7 | 25.00%  | 25.40 | 25.40 | 14.70 | 17.20 | 14.70 | 19.50 |
| NR  | n77 / n77C | PC3   | Ant1 | 100.00% | 14.60 | 13.90 | 13.30 | 16.30 | 13.30 | 24.00 |
| NR  | n77        | PC2   | Ant1 | 50.00%  | 14.60 | 13.90 | 13.30 | 16.30 | 13.30 | 23.00 |
| NR  | n77        | PC1.5 | Ant1 | 25.00%  | 14.60 | 13.90 | 13.30 | 16.30 | 13.30 | 20.00 |
| NR  | n77 / n77C | PC3   | Ant5 | 100.00% | 17.30 | 16.60 | 17.20 | 17.90 | 17.20 | 24.00 |
| NR  | n77        | PC2   | Ant5 | 50.00%  | 17.30 | 16.60 | 17.20 | 17.90 | 17.20 | 23.00 |
| NR  | n77        | PC1.5 | Ant5 | 25.00%  | 17.30 | 16.60 | 17.20 | 17.90 | 17.20 | 20.00 |
| NR  | n78        | PC3   | Ant6 | 100.00% | 24.60 | 21.50 | 13.00 | 14.40 | 13.00 | 24.00 |
| NR  | n78        | PC2   | Ant6 | 50.00%  | 24.60 | 21.50 | 13.00 | 14.40 | 13.00 | 23.00 |
| NR  | n78        | PC1.5 | Ant6 | 25.00%  | 24.60 | 21.50 | 13.00 | 14.40 | 13.00 | 20.00 |
| NR  | n78        | PC3   | Ant7 | 100.00% | 25.40 | 25.40 | 14.70 | 17.20 | 14.70 | 23.50 |
| NR  | n78        | PC2   | Ant7 | 50.00%  | 25.40 | 25.40 | 14.70 | 17.20 | 14.70 | 22.50 |
| NR  | n78        | PC1.5 | Ant7 | 25.00%  | 25.40 | 25.40 | 14.70 | 17.20 | 14.70 | 19.50 |
| NR  | n78        | PC3   | Ant1 | 100.00% | 14.60 | 13.90 | 13.30 | 16.30 | 13.30 | 24.00 |
| NR  | n78        | PC2   | Ant1 | 50.00%  | 14.60 | 13.90 | 13.30 | 16.30 | 13.30 | 23.00 |
| NR  | n78        | PC1.5 | Ant1 | 25.00%  | 14.60 | 13.90 | 13.30 | 16.30 | 13.30 | 20.00 |
| NR  | n78        | PC3   | Ant5 | 100.00% | 17.30 | 16.60 | 17.20 | 17.90 | 17.20 | 24.00 |
| NR  | n78        | PC2   | Ant5 | 50.00%  | 17.30 | 16.60 | 17.20 | 17.90 | 17.20 | 23.00 |
| NR  | n78        | PC1.5 | Ant5 | 25.00%  | 17.30 | 16.60 | 17.20 | 17.90 | 17.20 | 20.00 |
| NTN | B23        | PC3   | Ant5 | 100.00% |       |       |       | 22.60 |       | 23.50 |
| NTN | B255       | PC3   | Ant5 | 100.00% |       |       |       | 21.00 |       | 23.50 |

## **4. RF Exposure Limits**

### **4.1 Uncontrolled Environment**

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

### **4.2 Controlled Environment**

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

**Limits for Occupational/Controlled Exposure (W/kg)**

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.4        | 8.0          | 20.0                           |

**Limits for General Population/Uncontrolled Exposure (W/kg)**

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.08       | 1.6          | 4.0                            |

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

### **4.3 RF Exposure limit for above 6GHz**

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm<sup>2</sup> per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

| Frequency range (MHz)                                          | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposures</b>        |                               |                               |                                     |                          |
| 0.3-3.0                                                        | 614                           | 1.63                          | *(100)                              | 6                        |
| 3.0-30                                                         | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | 6                        |
| 30-300                                                         | 61.4                          | 0.163                         | 1.0                                 | 6                        |
| 300-1500                                                       |                               |                               | f/300                               | 6                        |
| 1500-100,000                                                   |                               |                               | 5                                   | 6                        |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 0.3-1.34                                                       | 614                           | 1.63                          | *(100)                              | 30                       |
| 1.34-30                                                        | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | 30                       |
| 30-300                                                         | 27.5                          | 0.073                         | 0.2                                 | 30                       |
| 300-1500                                                       |                               |                               | f/1500                              | 30                       |
| 1500-100,000                                                   |                               |                               | 1.0                                 | 30                       |

## 5. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 941225 D07 UMPC Mini Tablet v01r02
- IEC/IEEE 62209-1528:2020
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

## 6. Specific Absorption Rate (SAR)

### 6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

### 6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left( \frac{dW}{dm} \right) = \frac{d}{dt} \left( \frac{dW}{\rho dv} \right)$$

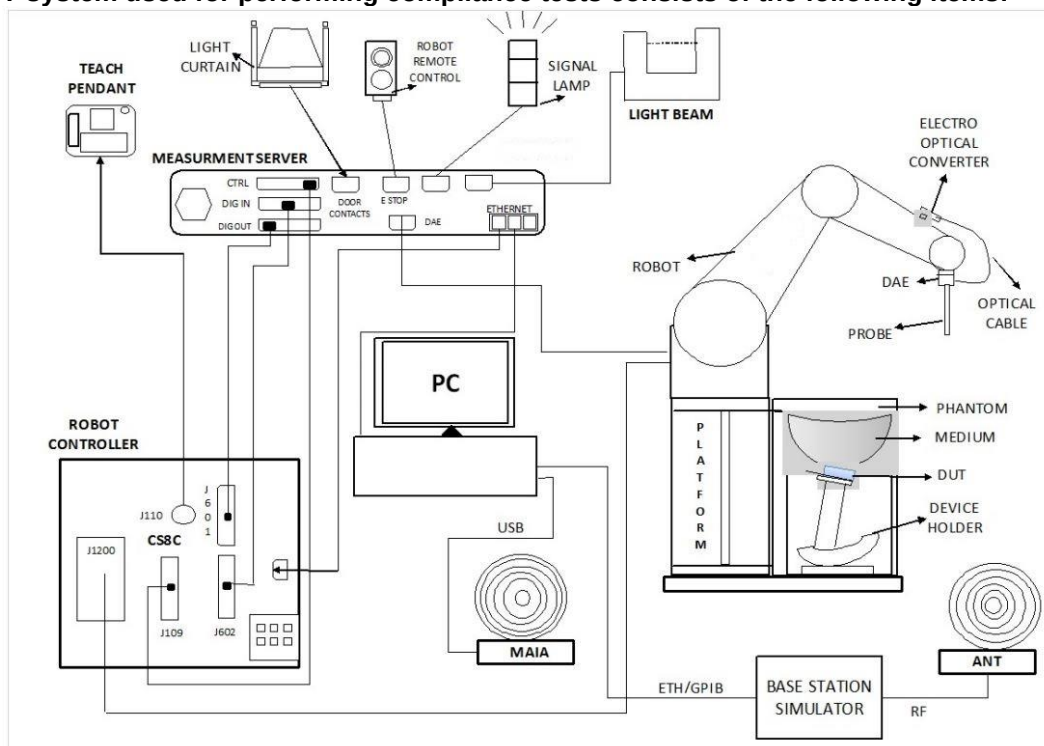
SAR is expressed in units of Watts per kilogram (W/kg)

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

## 7. System Description and Setup

The DASY system used for performing compliance tests consists of the following items:



- The DASY system in SAR Configuration is shown above
- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running windows software and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

### 7.1 Test Site Location

The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190 and 3786) and the FCC designation No. TW1190 and TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

| Laboratory         | EMC & Wireless Communications Laboratory                      |          | Wensan Laboratory                                                                    |          |          |          |          |
|--------------------|---------------------------------------------------------------|----------|--------------------------------------------------------------------------------------|----------|----------|----------|----------|
| Test Site Location | TW1190                                                        |          | TW3786                                                                               |          |          |          |          |
|                    | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan |          | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan |          |          |          |          |
| Test Site No.      | SAR01-HY                                                      | SAR03-HY | SAR08-HY                                                                             | SAR09-HY | SAR15-HY | SAR18-HY | SAR21-HY |
|                    | SAR04-HY                                                      | SAR05-HY | SAR11-HY                                                                             | SAR12-HY | SAR16-HY | SAR19-HY | SAR22-HY |
|                    | SAR06-HY                                                      | SAR10-HY | SAR13-HY                                                                             | SAR14-HY | SAR17-HY | SAR20-HY |          |

## 7.2 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

### < ES3DV3 Probe >

|                      |                                                                                                                                                                                  |                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Construction</b>  | Symmetric design with triangular core<br>Interleaved sensors<br>Built-in shielding against static charges<br>PEEK enclosure material (resistant to organic solvents, e.g., DGBE) |  |
| <b>Frequency</b>     | 4 MHz – 4 GHz;<br>Linearity: $\pm 0.2$ dB (30 MHz – 4 GHz)                                                                                                                       |                                                                                    |
| <b>Directivity</b>   | $\pm 0.2$ dB in TSL (rotation around probe axis)<br>$\pm 0.3$ dB in TSL (rotation normal to probe axis)                                                                          |                                                                                    |
| <b>Dynamic Range</b> | 5 $\mu$ W/g – > 100 mW/g;<br>Linearity: $\pm 0.2$ dB                                                                                                                             |                                                                                    |
| <b>Dimensions</b>    | Overall length: 337 mm (tip: 20 mm)<br>Tip diameter: 3.9 mm (body: 12 mm)<br>Distance from probe tip to dipole centers: 3.0 mm                                                   |                                                                                    |

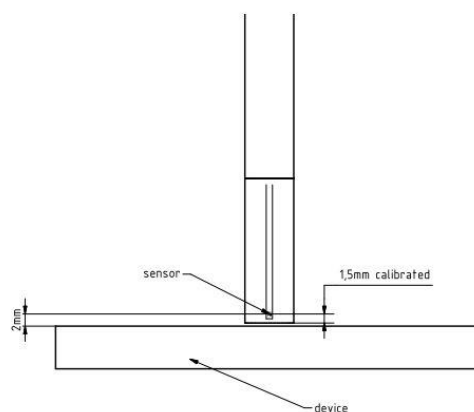
### < EX3DV4 Probe >

|                      |                                                                                                                                                           |                                                                                      |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Construction</b>  | Symmetric design with triangular core<br>Built-in shielding against static charges<br>PEEK enclosure material (resistant to organic solvents, e.g., DGBE) |  |
| <b>Frequency</b>     | 4 MHz – > 6 GHz<br>Linearity: $\pm 0.2$ dB (30 MHz – 6 GHz)                                                                                               |                                                                                      |
| <b>Directivity</b>   | $\pm 0.3$ dB in TSL (rotation around probe axis)<br>$\pm 0.5$ dB in TSL (rotation normal to probe axis)                                                   |                                                                                      |
| <b>Dynamic Range</b> | 10 $\mu$ W/g – > 100 mW/g<br>Linearity: $\pm 0.2$ dB (noise: typically < 1 $\mu$ W/g)                                                                     |                                                                                      |
| <b>Dimensions</b>    | Overall length: 337 mm (tip: 20 mm)<br>Tip diameter: 2.5 mm (body: 12 mm)<br>Typical distance from probe tip to dipole centers: 1 mm                      |                                                                                      |

### **7.3 EUmmWave Probe / E-Field 5G Probe**

The probe design allows measurements at distances as small as 2 mm from the sensors to the surface of the device under test (DUT). The typical sensor to probe tip distance is 1.5 mm.

|                                                               |                                                                                                                                                                                                                        |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency                                                     | 750 MHz – 110 GHz                                                                                                                                                                                                      |
| Probe Overall Length                                          | 320 mm                                                                                                                                                                                                                 |
| Probe Body Diameter                                           | 8.0 mm                                                                                                                                                                                                                 |
| Tip Length                                                    | 23.0 mm                                                                                                                                                                                                                |
| Tip Diameter                                                  | 8.0 mm                                                                                                                                                                                                                 |
| Probe's two dipoles length                                    | 0.9 mm – Diode loaded                                                                                                                                                                                                  |
| Dynamic Range                                                 | < 20 V/m - 10000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)                                                                                                                                                             |
| Position Precision                                            | < 0.2 mm                                                                                                                                                                                                               |
| Distance between diode sensors and probe's tip                | 1.5 mm                                                                                                                                                                                                                 |
| Minimum Mechanical separation between probe tip and a Surface | 0.5 mm                                                                                                                                                                                                                 |
| Applications                                                  | E-field measurements of 5G devices and other mm-wave transmitters operating above 10GHz in < 2 mm distance from device (free-space)<br>Power density, H-field and far-field analysis using total field reconstruction. |
| Compatibility                                                 | cDASY6 + 5G-Module SW1.0 and higher                                                                                                                                                                                    |



## 7.4 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

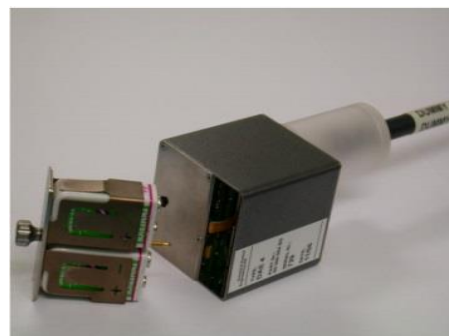


**Fig 5.1 Photo of DAE**

## 7.5 Phantom

### < SAM Twin Phantom >

|                          |                                                            |
|--------------------------|------------------------------------------------------------|
| <b>Shell Thickness</b>   | 2 ± 0.2 mm;<br>Center ear point: 6 ± 0.2 mm                |
| <b>Filling Volume</b>    | Approx. 25 liters                                          |
| <b>Dimensions</b>        | Length: 1000 mm; Width: 500 mm; Height:<br>adjustable feet |
| <b>Measurement Areas</b> | Left Hand, Right Hand, Flat Phantom                        |



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

### < ELI Phantom >

|                        |                                                  |
|------------------------|--------------------------------------------------|
| <b>Shell Thickness</b> | 2 ± 0.2 mm (sagging: < 1%)                       |
| <b>Filling Volume</b>  | Approx. 30 liters                                |
| <b>Dimensions</b>      | Major ellipse axis: 600 mm<br>Minor axis: 400 mm |



The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

## **7.6 Device Holder**

### **< Mounting Device for Hand-Held Transmitter >**

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

### **< Mounting Device for Laptops and other Body-Worn Transmitters >**

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

## **8. Measurement Procedures**

The measurement procedures are as follows:

- (a) Configure the device RF transmitters to be in continuous transmission mode., at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

### **8.1 Spatial Peak SAR Evaluation**

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

## **8.2 Power Reference Measurement**

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

## **8.3 Area Scan**

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

|                                                                                                        | $\leq 3$ GHz                                                                                                                                                                                                                                                           | $> 3$ GHz                                              |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | $5 \pm 1$ mm                                                                                                                                                                                                                                                           | $\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm     |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location              | $30^\circ \pm 1^\circ$                                                                                                                                                                                                                                                 | $20^\circ \pm 1^\circ$                                 |
| Maximum area scan spatial resolution: $\Delta x_{Area}$ , $\Delta y_{Area}$                            | $\leq 2$ GHz: $\leq 15$ mm<br>$2 - 3$ GHz: $\leq 12$ mm                                                                                                                                                                                                                | $3 - 4$ GHz: $\leq 12$ mm<br>$4 - 6$ GHz: $\leq 10$ mm |
|                                                                                                        | When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device. |                                                        |

### 8.4 Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

|                                                                                                                                                                                                                                                                                                             |                                           |                                                                                             | $\leq 3$ GHz                                         | $> 3$ GHz                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------|
| Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$                                                                                                                                                                                                                      |                                           |                                                                                             | $\leq 2$ GHz: $\leq 8$ mm<br>2 – 3 GHz: $\leq 5$ mm* | 3 – 4 GHz: $\leq 5$ mm*<br>4 – 6 GHz: $\leq 4$ mm*                            |
| Maximum zoom scan spatial resolution, normal to phantom surface                                                                                                                                                                                                                                             | uniform grid: $\Delta z_{\text{Zoom}}(n)$ |                                                                                             | $\leq 5$ mm                                          | 3 – 4 GHz: $\leq 4$ mm<br>4 – 5 GHz: $\leq 3$ mm<br>5 – 6 GHz: $\leq 2$ mm    |
|                                                                                                                                                                                                                                                                                                             | graded grid                               | $\Delta z_{\text{Zoom}}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface | $\leq 4$ mm                                          | 3 – 4 GHz: $\leq 3$ mm<br>4 – 5 GHz: $\leq 2.5$ mm<br>5 – 6 GHz: $\leq 2$ mm  |
|                                                                                                                                                                                                                                                                                                             |                                           | $\Delta z_{\text{Zoom}}(n>1)$ : between subsequent points                                   | $\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$         |                                                                               |
| Minimum zoom scan volume                                                                                                                                                                                                                                                                                    | x, y, z                                   |                                                                                             | $\geq 30$ mm                                         | 3 – 4 GHz: $\geq 28$ mm<br>4 – 5 GHz: $\geq 25$ mm<br>5 – 6 GHz: $\geq 22$ mm |
| Note: $\delta$ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.                                                                                                                                                           |                                           |                                                                                             |                                                      |                                                                               |
| * When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4$ W/kg, $\leq 8$ mm, $\leq 7$ mm and $\leq 5$ mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz. |                                           |                                                                                             |                                                      |                                                                               |

### 8.5 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

### 8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASy measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.



## 9. Test Equipment List

| Manufacturer  | Name of Equipment                            | Type/Model      | Serial Number | Last Cal.     | Due Date      |
|---------------|----------------------------------------------|-----------------|---------------|---------------|---------------|
| SPEAG         | 750MHz System Validation Kit                 | D750V3          | 1117          | Mar. 12, 2025 | Mar. 11, 2026 |
| SPEAG         | 750MHz System Validation Kit                 | D750V3          | 1107          | Jun. 11, 2025 | Jun. 10, 2026 |
| SPEAG         | 835MHz System Validation Kit                 | D835V2          | 4d060         | Feb. 17, 2025 | Feb. 16, 2026 |
| SPEAG         | 835MHz System Validation Kit                 | D835V2          | 4d167         | Dec. 02, 2025 | Dec. 01, 2026 |
| SPEAG         | 1640MHz System Validation Kit                | D1640V2         | 346           | Aug. 14, 2025 | Aug. 13, 2026 |
| SPEAG         | 1750MHz System Validation Kit                | D1750V2         | 1112          | Feb. 20, 2025 | Feb. 19, 2026 |
| SPEAG         | 1750MHz System Validation Kit <sup>(2)</sup> | D1750V2         | 1112          | Feb. 20, 2025 | Feb. 18, 2027 |
| SPEAG         | 1900MHz System Validation Kit <sup>(2)</sup> | D1900V2         | 5d041         | Aug. 15, 2024 | Aug. 13, 2026 |
| SPEAG         | 1900MHz System Validation Kit                | D1900V2         | 5d185         | Jun. 11, 2025 | Jun. 10, 2026 |
| SPEAG         | 2000MHz System Validation Kit <sup>(2)</sup> | D2000V2         | 1070          | Mar. 13, 2025 | Mar. 11, 2027 |
| SPEAG         | 2000MHz System Validation Kit                | D2000V2         | 1010          | Dec. 04, 2025 | Dec. 03, 2026 |
| SPEAG         | 2300MHz System Validation Kit <sup>(2)</sup> | D2300V2         | 1006          | Jan. 14, 2025 | Jan. 12, 2027 |
| SPEAG         | 2300MHz System Validation Kit                | D2300V2         | 1006          | Jan. 14, 2025 | Jan. 13, 2026 |
| SPEAG         | 2450MHz System Validation Kit <sup>(2)</sup> | D2450V2         | 736           | Aug. 15, 2024 | Aug. 13, 2026 |
| SPEAG         | 2450MHz System Validation Kit                | D2450V2         | 929           | Nov. 12, 2025 | Nov. 11, 2026 |
| SPEAG         | 2600MHz System Validation Kit <sup>(2)</sup> | D2600V2         | 1008          | Aug. 15, 2024 | Aug. 13, 2026 |
| SPEAG         | 3500MHz System Validation Kit <sup>(2)</sup> | D3500V2         | 1014          | Jan. 15, 2025 | Jan. 13, 2027 |
| SPEAG         | 3500MHz System Validation Kit                | D3500V2         | 1014          | Jan. 15, 2025 | Jan. 14, 2026 |
| SPEAG         | 3700MHz System Validation Kit                | D3700V2         | 1006          | Jun. 12, 2025 | Jun. 11, 2026 |
| SPEAG         | 3900MHz System Validation Kit <sup>(2)</sup> | D3900V2         | 1092          | May. 15, 2023 | May. 12, 2026 |
| SPEAG         | 5GHz System Validation Kit <sup>(2)</sup>    | D5GHzV2         | 1006          | Oct. 15, 2024 | Oct. 13, 2026 |
| SPEAG         | 6500MHz System Validation Kit                | D6.5GHzV2       | 1083          | Oct. 22, 2025 | Oct. 21, 2026 |
| SPEAG         | 5G Verification Source                       | 10GHz           | 1020          | Jan. 15, 2026 | Jan. 14, 2027 |
| SPEAG         | 13MHz System Validation Kit <sup>(2)</sup>   | CLA13           | 1011          | Jul. 10, 2023 | Jul. 07, 2026 |
| SPEAG         | Data Acquisition Electronics                 | DAE4ip          | 1800          | Jun. 16, 2025 | Jun. 15, 2026 |
| SPEAG         | Data Acquisition Electronics                 | DAE4ip          | 1823          | Jul. 11, 2025 | Jul. 10, 2026 |
| SPEAG         | Data Acquisition Electronics                 | DAE4            | 1697          | Nov. 19, 2025 | Nov. 18, 2026 |
| SPEAG         | Data Acquisition Electronics                 | DAE4            | 1707          | Nov. 20, 2025 | Nov. 19, 2026 |
| SPEAG         | Data Acquisition Electronics                 | DAE4            | 778           | Jan. 15, 2026 | Jan. 14, 2027 |
| SPEAG         | Data Acquisition Electronics                 | DAE4            | 1776          | Feb. 12, 2025 | Feb. 11, 2026 |
| SPEAG         | Data Acquisition Electronics                 | DAE4            | 656           | Jan. 15, 2026 | Jan. 14, 2027 |
| SPEAG         | Data Acquisition Electronics                 | DAE4ip          | 1823          | Jul. 11, 2025 | Jul. 10, 2026 |
| SPEAG         | Dosimetric E-Field Probe                     | EX3DV4          | 7814          | Jun. 19, 2025 | Jun. 18, 2026 |
| SPEAG         | Dosimetric E-Field Probe                     | EX3DV4          | 7695          | Jul. 01, 2025 | Jun. 30, 2026 |
| SPEAG         | Dosimetric E-Field Probe                     | EX3DV4          | 3931          | Oct. 23, 2025 | Oct. 22, 2026 |
| SPEAG         | Dosimetric E-Field Probe                     | EX3DV4          | 7785          | Nov. 26, 2025 | Nov. 25, 2026 |
| SPEAG         | Dosimetric E-Field Probe                     | EX3DV4          | 7625          | Dec. 09, 2025 | Dec. 08, 2026 |
| SPEAG         | EUmmWV Probe Tip Protection                  | EUmmWV4         | 9461          | Oct. 15, 2025 | Oct. 14, 2026 |
| SPEAG         | EUmmWV Probe Tip Protection                  | EUmmWV3         | 9424          | Mar. 12, 2026 | Mar. 11, 2027 |
| SPEAG         | Dielectric Probe Kit                         | DAK-3.5         | 1270          | May. 19, 2025 | May. 18, 2026 |
| SPEAG         | Dielectric Probe Kit                         | DAK-12          | 1156          | Jul. 14, 2025 | Jul. 13, 2026 |
| Testo         | Hygro meter                                  | 608-H1          | 45196600      | Nov. 04, 2025 | Nov. 03, 2026 |
| Testo         | Hygro meter                                  | 608-H1          | 45207528      | Nov. 04, 2025 | Nov. 03, 2026 |
| Anritsu       | Radio Communication Analyzer                 | MT8821C         | 6201074414    | Aug. 19, 2025 | Aug. 18, 2026 |
| Keysight      | 5G Wireless Test Platform                    | E7515B          | MY59321595    | Jun. 20, 2025 | Jun. 19, 2026 |
| SPEAG         | Device Holder                                | N/A             | N/A           | N/A           | N/A           |
| Anritsu       | Signal Generator                             | MG3710A         | 6201502524    | Sep. 24, 2025 | Sep. 23, 2026 |
| Keysight      | ENA Network Analyzer                         | E5071C          | MY46104758    | Oct. 14, 2025 | Oct. 13, 2026 |
| LINE SEIKI    | Digital Thermometer                          | DTM3000-spezial | 3690          | Aug. 14, 2025 | Aug. 13, 2026 |
| Anritsu       | Power Meter                                  | ML2496A         | 2119003       | Jul. 14, 2025 | Jul. 13, 2026 |
| R&S           | Power Sensor                                 | NRP8S           | 103999        | Jan. 06, 2025 | Jan. 05, 2026 |
| Anritsu       | Power Sensor                                 | MA2411B         | 1911334       | Jul. 14, 2025 | Jul. 13, 2026 |
| Anritsu       | Spectrum Analyzer                            | MS2830A         | 6201396378    | Jul. 09, 2025 | Jul. 08, 2026 |
| Mini-Circuits | Power Amplifier                              | ZVE-3W-183+     | 031302302     | Feb. 24, 2025 | Feb. 23, 2026 |
| Mini-Circuits | Power Amplifier                              | ZVE-3W-183+     | 072602118     | Apr. 08, 2025 | Apr. 07, 2026 |
| Mini-Circuits | Power Amplifier                              | ZHL-42W+        | 715701915     | May. 19, 2025 | May. 18, 2026 |
| ATM           | Dual Directional Coupler                     | C122H-10        | P610410z-02   | Note 1        |               |
| Warison       | Directional Coupler                          | WCOU-10-50S-10  | WR889BMC4B1   | Note 1        |               |
| Woken         | Attenuator 1                                 | WK0602-XX       | N/A           | Note 1        |               |
| PE            | Attenuator 2                                 | PE7005-10       | N/A           | Note 1        |               |
| PE            | Attenuator 3                                 | PE7005- 3       | N/A           | Note 1        |               |

### General Note:

- Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
- The dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is <-20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.



## 10. System Verification

### 10.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within  $\pm 2^\circ\text{C}$  of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The liquid tissue depth was at least 15cm in the phantom for all SAR testing

The SPEAG Dasy Measurement system implement a SAR error compensation algorithm as documented in IEEE Std 1528-2013 to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, according to KDB 865664 D01 and IEC/IEEE 62209-1528, the tolerance for "Delta ( $\sigma$ )" and "Delta ( $\epsilon_r$ )" can be relaxed to  $\pm 10\%$

#### < Tissue Dielectric Parameter Check Results >

| Frequency (MHz) | Liquid Temp (°C) | Conductivity ( $\sigma$ ) | Permittivity ( $\epsilon_r$ ) | Conductivity Target ( $\sigma$ ) | Permittivity Target ( $\epsilon_r$ ) | Delta ( $\sigma$ ) (%) | Delta ( $\epsilon_r$ ) (%) | Limit (%)  | Date       |
|-----------------|------------------|---------------------------|-------------------------------|----------------------------------|--------------------------------------|------------------------|----------------------------|------------|------------|
| 750             | 22.5             | 0.879                     | 44.3                          | 0.89                             | 41.9                                 | -1.24                  | 5.73                       | $\pm 10.0$ | 2026-01-06 |
| 750             | 22.8             | 0.889                     | 44.4                          | 0.89                             | 41.9                                 | -0.11                  | 5.97                       | $\pm 10.0$ | 2026-01-22 |
| 750             | 22.6             | 0.917                     | 42.6                          | 0.89                             | 41.9                                 | 3.03                   | 1.67                       | $\pm 10.0$ | 2026-01-26 |
| 750             | 22.4             | 0.89                      | 44.9                          | 0.89                             | 41.9                                 | 0.00                   | 7.16                       | $\pm 10.0$ | 2026-02-01 |
| 750             | 22.4             | 0.899                     | 42.3                          | 0.89                             | 41.9                                 | 1.01                   | 0.95                       | $\pm 10.0$ | 2026-02-04 |
| 750             | 22.4             | 0.891                     | 42.8                          | 0.89                             | 41.9                                 | 0.11                   | 2.15                       | $\pm 10.0$ | 2026-02-17 |
| 750             | 22.6             | 0.913                     | 42.8                          | 0.89                             | 41.9                                 | 2.58                   | 2.15                       | $\pm 10.0$ | 2026-02-18 |
| 750             | 22.5             | 0.886                     | 42.3                          | 0.89                             | 41.9                                 | -0.45                  | 0.95                       | $\pm 10.0$ | 2026-02-20 |
| 750             | 22.8             | 0.883                     | 42.8                          | 0.89                             | 41.9                                 | -0.79                  | 2.15                       | $\pm 10.0$ | 2026-02-24 |
| 750             | 22.2             | 0.891                     | 42.5                          | 0.89                             | 41.9                                 | 0.11                   | 1.43                       | $\pm 10.0$ | 2026-03-02 |
| 750             | 22.6             | 0.883                     | 42.3                          | 0.89                             | 41.9                                 | -0.79                  | 0.95                       | $\pm 10.0$ | 2026-03-16 |
| 835             | 22.5             | 0.912                     | 44.1                          | 0.9                              | 41.5                                 | 1.33                   | 6.27                       | $\pm 10.0$ | 2026-01-05 |
| 835             | 22.5             | 0.907                     | 44.1                          | 0.9                              | 41.5                                 | 0.78                   | 6.27                       | $\pm 10.0$ | 2026-01-06 |
| 835             | 22.7             | 0.95                      | 43.2                          | 0.9                              | 41.5                                 | 5.56                   | 4.10                       | $\pm 10.0$ | 2026-01-27 |
| 835             | 22.4             | 0.917                     | 44.6                          | 0.9                              | 41.5                                 | 1.89                   | 7.47                       | $\pm 10.0$ | 2026-02-01 |
| 835             | 22.4             | 0.938                     | 42.2                          | 0.9                              | 41.5                                 | 4.22                   | 1.69                       | $\pm 10.0$ | 2026-02-04 |
| 835             | 22.4             | 0.923                     | 42.5                          | 0.9                              | 41.5                                 | 2.56                   | 2.41                       | $\pm 10.0$ | 2026-02-17 |
| 835             | 22.6             | 0.94                      | 42.5                          | 0.9                              | 41.5                                 | 4.44                   | 2.41                       | $\pm 10.0$ | 2026-02-18 |
| 835             | 22.5             | 0.915                     | 42.1                          | 0.9                              | 41.5                                 | 1.67                   | 1.45                       | $\pm 10.0$ | 2026-02-20 |
| 835             | 22.8             | 0.915                     | 42.5                          | 0.9                              | 41.5                                 | 1.67                   | 2.41                       | $\pm 10.0$ | 2026-02-24 |
| 835             | 22.2             | 0.921                     | 42.3                          | 0.9                              | 41.5                                 | 2.33                   | 1.93                       | $\pm 10.0$ | 2026-03-02 |
| 835             | 22.7             | 0.928                     | 42.6                          | 0.9                              | 41.5                                 | 3.11                   | 2.65                       | $\pm 10.0$ | 2026-03-07 |
| 835             | 22.2             | 0.912                     | 42.0                          | 0.9                              | 41.5                                 | 1.33                   | 1.20                       | $\pm 10.0$ | 2026-03-14 |
| 1640            | 22.1             | 1.3                       | 43.0                          | 1.31                             | 40.23                                | -0.76                  | 6.89                       | $\pm 10.0$ | 2026-03-21 |
| 1640            | 22.8             | 1.26                      | 43.6                          | 1.31                             | 40.23                                | -3.82                  | 8.38                       | $\pm 10.0$ | 2026-04-08 |
| 1750            | 22.2             | 1.35                      | 40.5                          | 1.37                             | 40.1                                 | -1.46                  | 1.00                       | $\pm 10.0$ | 2026-01-02 |
| 1750            | 22.5             | 1.34                      | 42.4                          | 1.37                             | 40.1                                 | -2.19                  | 5.74                       | $\pm 10.0$ | 2026-01-05 |
| 1750            | 22.8             | 1.37                      | 42.1                          | 1.37                             | 40.1                                 | 0.00                   | 4.99                       | $\pm 10.0$ | 2026-01-20 |
| 1750            | 22.5             | 1.36                      | 42.1                          | 1.37                             | 40.1                                 | -0.73                  | 4.99                       | $\pm 10.0$ | 2026-01-25 |
| 1750            | 22.7             | 1.36                      | 40.7                          | 1.37                             | 40.1                                 | -0.73                  | 1.50                       | $\pm 10.0$ | 2026-01-28 |
| 1750            | 22.5             | 1.32                      | 42.8                          | 1.37                             | 40.1                                 | -3.65                  | 6.73                       | $\pm 10.0$ | 2026-01-30 |
| 1750            | 22.6             | 1.35                      | 40.4                          | 1.37                             | 40.1                                 | -1.46                  | 0.75                       | $\pm 10.0$ | 2026-02-06 |
| 1750            | 22.8             | 1.38                      | 40.8                          | 1.37                             | 40.1                                 | 0.73                   | 1.75                       | $\pm 10.0$ | 2026-02-10 |
| 1750            | 22.4             | 1.36                      | 40.9                          | 1.37                             | 40.1                                 | -0.73                  | 2.00                       | $\pm 10.0$ | 2026-02-17 |
| 1750            | 22.6             | 1.35                      | 40.9                          | 1.37                             | 40.1                                 | -1.46                  | 2.00                       | $\pm 10.0$ | 2026-02-18 |
| 1750            | 22.2             | 1.35                      | 41.0                          | 1.37                             | 40.1                                 | -1.46                  | 2.24                       | $\pm 10.0$ | 2026-02-22 |
| 1750            | 22.7             | 1.38                      | 42.0                          | 1.37                             | 40.1                                 | 0.73                   | 4.74                       | $\pm 10.0$ | 2026-02-27 |
| 1750            | 22.8             | 1.34                      | 42.8                          | 1.37                             | 40.1                                 | -2.19                  | 6.73                       | $\pm 10.0$ | 2026-02-28 |
| 1750            | 22.6             | 1.37                      | 40.9                          | 1.37                             | 40.1                                 | 0.00                   | 2.00                       | $\pm 10.0$ | 2026-03-06 |
| 1750            | 22.5             | 1.37                      | 40.6                          | 1.37                             | 40.1                                 | 0.00                   | 1.25                       | $\pm 10.0$ | 2026-03-30 |
| 1900            | 22.2             | 1.43                      | 40.2                          | 1.4                              | 40.0                                 | 2.14                   | 0.50                       | $\pm 10.0$ | 2026-01-02 |
| 1900            | 22.8             | 1.48                      | 42.0                          | 1.4                              | 40.0                                 | 5.71                   | 5.00                       | $\pm 10.0$ | 2026-01-20 |
| 1900            | 22.5             | 1.47                      | 42.0                          | 1.4                              | 40.0                                 | 5.00                   | 5.00                       | $\pm 10.0$ | 2026-01-25 |
| 1900            | 22.7             | 1.44                      | 40.4                          | 1.4                              | 40.0                                 | 2.86                   | 1.00                       | $\pm 10.0$ | 2026-01-28 |
| 1900            | 22.5             | 1.41                      | 42.6                          | 1.4                              | 40.0                                 | 0.71                   | 6.50                       | $\pm 10.0$ | 2026-01-30 |
| 1900            | 22.4             | 1.44                      | 40.7                          | 1.4                              | 40.0                                 | 2.86                   | 1.75                       | $\pm 10.0$ | 2026-02-17 |
| 1900            | 22.2             | 1.43                      | 40.8                          | 1.4                              | 40.0                                 | 2.14                   | 2.00                       | $\pm 10.0$ | 2026-02-22 |
| 1900            | 22.3             | 1.43                      | 42.4                          | 1.4                              | 40.0                                 | 2.14                   | 6.00                       | $\pm 10.0$ | 2026-02-23 |
| 1900            | 22.7             | 1.47                      | 41.7                          | 1.4                              | 40.0                                 | 5.00                   | 4.25                       | $\pm 10.0$ | 2026-02-27 |
| 1900            | 22.6             | 1.45                      | 40.6                          | 1.4                              | 40.0                                 | 3.57                   | 1.50                       | $\pm 10.0$ | 2026-03-06 |



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|      |      |       |        |      |       |       |       |       |            |
|------|------|-------|--------|------|-------|-------|-------|-------|------------|
| 1900 | 22.5 | 1.46  | 40.4   | 1.4  | 40.0  | 4.29  | 1.00  | ±10.0 | 2026-03-06 |
| 1900 | 22.2 | 1.42  | 40.0   | 1.4  | 40.0  | 1.43  | 0.00  | ±10.0 | 2026-03-14 |
| 2000 | 22.1 | 1.52  | 42.5   | 1.4  | 40.0  | 8.57  | 6.25  | ±10.0 | 2026-03-21 |
| 2000 | 22.8 | 1.47  | 43.1   | 1.4  | 40.0  | 5.00  | 7.75  | ±10.0 | 2026-04-08 |
| 2300 | 22.5 | 1.7   | 41.6   | 1.67 | 39.5  | 1.80  | 5.32  | ±10.0 | 2026-01-03 |
| 2300 | 22.8 | 1.76  | 41.3   | 1.67 | 39.5  | 5.39  | 4.56  | ±10.0 | 2026-01-19 |
| 2300 | 22.7 | 1.73  | 39.9   | 1.67 | 39.5  | 3.59  | 1.01  | ±10.0 | 2026-01-29 |
| 2300 | 22.8 | 1.71  | 40.1   | 1.67 | 39.5  | 2.40  | 1.52  | ±10.0 | 2026-02-18 |
| 2300 | 22.6 | 1.7   | 40.0   | 1.67 | 39.5  | 1.80  | 1.27  | ±10.0 | 2026-02-18 |
| 2300 | 22.1 | 1.73  | 41.1   | 1.67 | 39.5  | 3.59  | 4.05  | ±10.0 | 2026-02-21 |
| 2300 | 22.1 | 1.73  | 40.2   | 1.67 | 39.5  | 3.59  | 1.77  | ±10.0 | 2026-03-01 |
| 2300 | 22.5 | 1.73  | 39.8   | 1.67 | 39.5  | 3.59  | 0.76  | ±10.0 | 2026-03-30 |
| 2600 | 22.5 | 1.93  | 41.1   | 1.96 | 39.0  | -1.53 | 5.38  | ±10.0 | 2026-01-03 |
| 2600 | 22.8 | 2.0   | 40.9   | 1.96 | 39.0  | 2.04  | 4.87  | ±10.0 | 2026-01-19 |
| 2600 | 22.8 | 2.01  | 41.1   | 1.96 | 39.0  | 2.55  | 5.38  | ±10.0 | 2026-01-22 |
| 2600 | 22.5 | 1.93  | 39.9   | 1.96 | 39.0  | -1.53 | 2.31  | ±10.0 | 2026-01-24 |
| 2600 | 22.7 | 1.96  | 39.4   | 1.96 | 39.0  | 0.00  | 1.03  | ±10.0 | 2026-01-29 |
| 2600 | 22.3 | 1.98  | 41.6   | 1.96 | 39.0  | 1.02  | 6.67  | ±10.0 | 2026-01-31 |
| 2600 | 22.5 | 1.95  | 39.5   | 1.96 | 39.0  | -0.51 | 1.28  | ±10.0 | 2026-02-10 |
| 2600 | 22.8 | 1.94  | 39.7   | 1.96 | 39.0  | -1.02 | 1.79  | ±10.0 | 2026-02-18 |
| 2600 | 22.5 | 1.96  | 42.3   | 1.96 | 39.0  | 0.00  | 8.46  | ±10.0 | 2026-02-20 |
| 2600 | 22.1 | 1.95  | 40.7   | 1.96 | 39.0  | -0.51 | 4.36  | ±10.0 | 2026-02-21 |
| 2600 | 22.8 | 1.89  | 42.5   | 1.96 | 39.0  | -3.57 | 8.97  | ±10.0 | 2026-02-26 |
| 2600 | 22.8 | 1.95  | 41.4   | 1.96 | 39.0  | -0.51 | 6.15  | ±10.0 | 2026-02-28 |
| 2600 | 22.2 | 1.97  | 39.5   | 1.96 | 39.0  | 0.51  | 1.28  | ±10.0 | 2026-03-02 |
| 2600 | 22.2 | 1.97  | 39.6   | 1.96 | 39.0  | 0.51  | 1.54  | ±10.0 | 2026-03-02 |
| 2600 | 22.5 | 1.96  | 39.3   | 1.96 | 39.0  | 0.00  | 0.77  | ±10.0 | 2026-03-30 |
| 3500 | 22.7 | 2.7   | 39.5   | 2.91 | 37.9  | -7.22 | 4.22  | ±10.0 | 2026-01-04 |
| 3500 | 22.5 | 2.74  | 39.7   | 2.91 | 37.9  | -5.84 | 4.75  | ±10.0 | 2026-01-07 |
| 3500 | 22.4 | 2.65  | 40.6   | 2.91 | 37.9  | -8.93 | 7.12  | ±10.0 | 2026-02-02 |
| 3500 | 22.6 | 2.69  | 39.5   | 2.91 | 37.9  | -7.56 | 4.22  | ±10.0 | 2026-02-03 |
| 3500 | 22.7 | 2.69  | 38.9   | 2.91 | 37.9  | -7.56 | 2.64  | ±10.0 | 2026-02-07 |
| 3500 | 22.8 | 2.65  | 38.6   | 2.91 | 37.9  | -8.93 | 1.85  | ±10.0 | 2026-02-08 |
| 3500 | 22.8 | 2.83  | 39.1   | 2.91 | 37.9  | -2.75 | 3.17  | ±10.0 | 2026-02-09 |
| 3500 | 22.9 | 2.71  | 37.8   | 2.91 | 37.9  | -6.87 | -0.26 | ±10.0 | 2026-02-09 |
| 3500 | 22.4 | 2.72  | 37.9   | 2.91 | 37.9  | -6.53 | 0.00  | ±10.0 | 2026-02-17 |
| 3500 | 22.4 | 2.79  | 38.0   | 2.91 | 37.9  | -4.12 | 0.26  | ±10.0 | 2026-02-24 |
| 3500 | 22.5 | 2.79  | 37.9   | 2.91 | 37.9  | -4.12 | 0.00  | ±10.0 | 2026-02-25 |
| 3500 | 22.8 | 2.7   | 40.5   | 2.91 | 37.9  | -7.22 | 6.86  | ±10.0 | 2026-02-26 |
| 3500 | 22.6 | 2.8   | 38.0   | 2.91 | 37.9  | -3.78 | 0.26  | ±10.0 | 2026-02-26 |
| 3500 | 22.5 | 2.73  | 39.8   | 2.91 | 37.9  | -6.19 | 5.01  | ±10.0 | 2026-03-01 |
| 3500 | 22.2 | 2.75  | 37.9   | 2.91 | 37.9  | -5.50 | 0.00  | ±10.0 | 2026-03-02 |
| 3500 | 22.6 | 2.7   | 39.0   | 2.91 | 37.9  | -7.22 | 2.90  | ±10.0 | 2026-03-15 |
| 3500 | 22.7 | 2.68  | 39.1   | 2.91 | 37.9  | -7.90 | 3.17  | ±10.0 | 2026-03-31 |
| 3500 | 22.5 | 2.81  | 38.0   | 2.91 | 37.9  | -3.44 | 0.26  | ±10.0 | 2026-04-01 |
| 3700 | 22.7 | 2.87  | 39.2   | 3.12 | 37.7  | -8.01 | 3.98  | ±10.0 | 2026-01-04 |
| 3700 | 22.4 | 2.91  | 39.4   | 3.12 | 37.7  | -6.73 | 4.51  | ±10.0 | 2026-01-07 |
| 3700 | 22.4 | 2.83  | 40.3   | 3.12 | 37.7  | -9.29 | 6.90  | ±10.0 | 2026-02-02 |
| 3700 | 22.6 | 2.86  | 39.2   | 3.12 | 37.7  | -8.33 | 3.98  | ±10.0 | 2026-02-03 |
| 3700 | 22.8 | 2.86  | 38.5   | 3.12 | 37.7  | -8.33 | 2.12  | ±10.0 | 2026-02-07 |
| 3700 | 22.8 | 2.82  | 38.3   | 3.12 | 37.7  | -9.62 | 1.59  | ±10.0 | 2026-02-08 |
| 3700 | 22.8 | 3.01  | 38.9   | 3.12 | 37.7  | -3.53 | 3.18  | ±10.0 | 2026-02-09 |
| 3700 | 22.9 | 2.89  | 37.5   | 3.12 | 37.7  | -7.37 | -0.53 | ±10.0 | 2026-02-09 |
| 3700 | 22.4 | 2.92  | 37.5   | 3.12 | 37.7  | -6.41 | -0.53 | ±10.0 | 2026-02-17 |
| 3700 | 22.4 | 2.97  | 37.7   | 3.12 | 37.7  | -4.81 | 0.00  | ±10.0 | 2026-02-24 |
| 3700 | 22.5 | 2.97  | 37.6   | 3.12 | 37.7  | -4.81 | -0.27 | ±10.0 | 2026-02-25 |
| 3700 | 22.8 | 2.95  | 40.6   | 3.12 | 37.7  | -5.45 | 7.69  | ±10.0 | 2026-02-26 |
| 3700 | 22.6 | 2.98  | 37.6   | 3.12 | 37.7  | -4.49 | -0.27 | ±10.0 | 2026-02-26 |
| 3700 | 22.5 | 2.9   | 39.6   | 3.12 | 37.7  | -7.05 | 5.04  | ±10.0 | 2026-03-01 |
| 3700 | 22.2 | 2.93  | 37.5   | 3.12 | 37.7  | -6.09 | -0.53 | ±10.0 | 2026-03-02 |
| 3700 | 22.6 | 2.87  | 38.7   | 3.12 | 37.7  | -8.01 | 2.65  | ±10.0 | 2026-03-15 |
| 3700 | 22.7 | 2.87  | 38.9   | 3.12 | 37.7  | -8.01 | 3.18  | ±10.0 | 2026-03-31 |
| 3700 | 22.5 | 2.98  | 37.8   | 3.12 | 37.7  | -4.49 | 0.27  | ±10.0 | 2026-04-01 |
| 3900 | 22.8 | 3.05  | 38.3   | 3.33 | 37.51 | -8.41 | 2.11  | ±10.0 | 2026-02-07 |
| 3900 | 22.8 | 3.0   | 38.0   | 3.33 | 37.51 | -9.91 | 1.31  | ±10.0 | 2026-02-08 |
| 3900 | 22.8 | 3.23  | 38.6   | 3.33 | 37.51 | -3.00 | 2.91  | ±10.0 | 2026-02-09 |
| 3900 | 22.9 | 3.09  | 37.2   | 3.33 | 37.51 | -7.21 | -0.83 | ±10.0 | 2026-02-09 |
| 3900 | 22.4 | 3.14  | 37.4   | 3.33 | 37.51 | -5.71 | -0.29 | ±10.0 | 2026-02-24 |
| 3900 | 22.5 | 3.14  | 37.3   | 3.33 | 37.51 | -5.71 | -0.56 | ±10.0 | 2026-02-25 |
| 3900 | 22.6 | 3.15  | 37.5   | 3.33 | 37.51 | -5.41 | -0.03 | ±10.0 | 2026-02-26 |
| 3900 | 22.2 | 3.1   | 37.2   | 3.33 | 37.51 | -6.91 | -0.83 | ±10.0 | 2026-03-02 |
| 3900 | 22.6 | 3.06  | 38.5   | 3.33 | 37.51 | -8.11 | 2.64  | ±10.0 | 2026-03-15 |
| 3900 | 22.7 | 3.04  | 38.7   | 3.33 | 37.51 | -8.71 | 3.17  | ±10.0 | 2026-03-31 |
| 2450 | 22.5 | 1.790 | 41.300 | 1.80 | 39.20 | -0.56 | 5.36  | ±10.0 | 2026/1/8   |



## FCC SAR TEST REPORT

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|      |      |       |        |      |       |       |       |       |           |
|------|------|-------|--------|------|-------|-------|-------|-------|-----------|
| 2450 | 22.5 | 1.780 | 39.200 | 1.80 | 39.20 | -1.11 | 0.00  | ±10.0 | 2026/1/12 |
| 2450 | 22.5 | 1.840 | 39.400 | 1.80 | 39.20 | 2.22  | 0.51  | ±10.0 | 2026/3/5  |
| 2450 | 22.5 | 1.840 | 39.500 | 1.80 | 39.20 | 2.22  | 0.77  | ±10.0 | 2026/3/6  |
| 2450 | 22.7 | 1.860 | 41.400 | 1.80 | 39.20 | 3.33  | 5.61  | ±10.0 | 2026/3/21 |
| 2450 | 22.3 | 1.850 | 39.700 | 1.80 | 39.20 | 2.78  | 1.28  | ±10.0 | 2026/3/23 |
| 2450 | 22.3 | 1.810 | 39.400 | 1.80 | 39.20 | 0.56  | 0.51  | ±10.0 | 2026/3/25 |
| 5250 | 22.5 | 4.46  | 36.4   | 4.71 | 35.95 | -5.31 | 1.25  | ±10.0 | 2026/1/9  |
| 5250 | 22.5 | 4.530 | 34.600 | 4.71 | 35.95 | -3.82 | -3.76 | ±10.0 | 2026/3/5  |
| 5250 | 22.7 | 4.610 | 37.000 | 4.71 | 35.95 | -2.12 | 2.92  | ±10.0 | 2026/3/17 |
| 5250 | 22.7 | 4.670 | 37.100 | 4.71 | 35.95 | -0.85 | 3.20  | ±10.0 | 2026/3/18 |
| 5600 | 22.5 | 4.83  | 35.7   | 5.07 | 35.50 | -4.73 | 0.56  | ±10.0 | 2026/1/9  |
| 5600 | 22.5 | 4.870 | 34.200 | 5.07 | 35.50 | -3.94 | -3.66 | ±10.0 | 2026/3/5  |
| 5600 | 22.7 | 5.010 | 36.400 | 5.07 | 35.50 | -1.18 | 2.54  | ±10.0 | 2026/3/17 |
| 5600 | 22.7 | 5.080 | 36.500 | 5.07 | 35.50 | 0.20  | 2.82  | ±10.0 | 2026/3/18 |
| 5800 | 22.5 | 5.070 | 35.400 | 5.27 | 35.30 | -3.80 | 0.28  | ±10.0 | 2026/1/9  |
| 5800 | 22.5 | 5.110 | 33.700 | 5.27 | 35.30 | -3.04 | -4.53 | ±10.0 | 2026/3/5  |
| 5800 | 22.7 | 5.240 | 36.000 | 5.27 | 35.30 | -0.57 | 1.98  | ±10.0 | 2026/3/17 |
| 5800 | 22.7 | 5.310 | 36.200 | 5.27 | 35.30 | 0.76  | 2.55  | ±10.0 | 2026/3/18 |
| 6500 | 22.5 | 6.090 | 34.100 | 6.07 | 34.50 | 0.33  | -1.16 | ±10.0 | 2026/3/19 |
| 6500 | 22.5 | 6.060 | 32.400 | 6.07 | 34.50 | -0.16 | -6.09 | ±10.0 | 2026/3/28 |
| 6500 | 22.5 | 6.110 | 32.700 | 6.07 | 34.50 | 0.66  | -5.22 | ±10.0 | 2026/3/28 |
| 6500 | 22.5 | 6.040 | 32.800 | 6.07 | 34.50 | -0.49 | -4.93 | ±10.0 | 2026/3/29 |
| 13   | 23.5 | 0.719 | 53.500 | 0.75 | 55.00 | -4.13 | -2.73 | ±10.0 | 2026/4/10 |



## 10.2 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

| Test Site | Date       | Frequency (MHz) | Input Power (mW) | Dipole S/N      | Probe S/N       | DAE S/N       | Measured 1g SAR (W/kg) | Targeted 1g SAR (W/kg) | Normalized 1g SAR (W/kg) | Deviation (%) | Measured 10g SAR (W/kg) | Targeted 10g SAR (W/kg) | Normalized 10g SAR (W/kg) | Deviation (%) |
|-----------|------------|-----------------|------------------|-----------------|-----------------|---------------|------------------------|------------------------|--------------------------|---------------|-------------------------|-------------------------|---------------------------|---------------|
| SAR18     | 2026-01-06 | 750             | 251.19           | D750V3 - 1117   | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.220                  | 8.600                  | 8.838                    | 2.77          | 1.470                   | 5.570                   | 5.852                     | 5.07          |
| SAR19     | 2026-01-22 | 750             | 251.19           | D750V3 - 1117   | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.260                  | 8.600                  | 8.997                    | 4.62          | 1.490                   | 5.570                   | 5.932                     | 6.49          |
| SAR19     | 2026-01-26 | 750             | 251.19           | D750V3 - 1117   | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.280                  | 8.600                  | 9.077                    | 5.54          | 1.510                   | 5.570                   | 6.011                     | 7.92          |
| SAR19     | 2026-02-01 | 750             | 251.19           | D750V3 - 1117   | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.290                  | 8.600                  | 9.117                    | 6.01          | 1.520                   | 5.570                   | 6.051                     | 8.64          |
| SAR19     | 2026-02-04 | 750             | 251.19           | D750V3 - 1117   | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.000                  | 8.600                  | 7.962                    | -7.42         | 1.320                   | 5.570                   | 5.255                     | -5.66         |
| SAR20     | 2026-02-17 | 750             | 251.19           | D750V3 - 1117   | EX3DV4 - SN7814 | DAE4 Sn778    | 2.230                  | 8.600                  | 8.878                    | 3.23          | 1.480                   | 5.570                   | 5.892                     | 5.78          |
| SAR20     | 2026-02-18 | 750             | 251.19           | D750V3 - 1117   | EX3DV4 - SN7814 | DAE4 Sn778    | 2.280                  | 8.600                  | 9.077                    | 5.54          | 1.520                   | 5.570                   | 6.051                     | 8.64          |
| SAR18     | 2026-02-20 | 750             | 251.19           | D750V3 - 1117   | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.180                  | 8.600                  | 8.679                    | 0.91          | 1.450                   | 5.570                   | 5.773                     | 3.64          |
| SAR19     | 2026-02-24 | 750             | 251.19           | D750V3 - 1117   | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.090                  | 8.600                  | 8.320                    | -3.25         | 1.380                   | 5.570                   | 5.494                     | -1.37         |
| SAR19     | 2026-03-02 | 750             | 251.19           | D750V3 - 1117   | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.020                  | 8.600                  | 8.042                    | -6.49         | 1.340                   | 5.570                   | 5.335                     | -4.23         |
| SAR18     | 2026-03-16 | 750             | 251.19           | D750V3 - 1107   | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.270                  | 8.840                  | 9.037                    | 2.23          | 1.510                   | 5.810                   | 6.011                     | 3.47          |
| SAR18     | 2026-01-05 | 835             | 251.19           | D835V2 - 4d060  | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.480                  | 9.280                  | 9.873                    | 6.39          | 1.630                   | 6.010                   | 6.489                     | 7.97          |
| SAR18     | 2026-01-06 | 835             | 251.19           | D835V2 - 4d060  | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.490                  | 9.280                  | 9.913                    | 6.82          | 1.640                   | 6.010                   | 6.529                     | 8.63          |
| SAR19     | 2026-01-27 | 835             | 251.19           | D835V2 - 4d167  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.510                  | 9.360                  | 9.992                    | 6.76          | 1.650                   | 6.050                   | 6.569                     | 8.57          |
| SAR19     | 2026-02-01 | 835             | 251.19           | D835V2 - 4d167  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.540                  | 9.360                  | 10.112                   | 8.03          | 1.670                   | 6.050                   | 6.648                     | 9.89          |
| SAR19     | 2026-02-04 | 835             | 251.19           | D835V2 - 4d167  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.440                  | 9.360                  | 9.714                    | 3.78          | 1.610                   | 6.050                   | 6.409                     | 5.94          |
| SAR20     | 2026-02-17 | 835             | 251.19           | D835V2 - 4d167  | EX3DV4 - SN7814 | DAE4 Sn778    | 2.440                  | 9.360                  | 9.714                    | 3.78          | 1.610                   | 6.050                   | 6.409                     | 5.94          |
| SAR20     | 2026-02-18 | 835             | 251.19           | D835V2 - 4d167  | EX3DV4 - SN7814 | DAE4 Sn778    | 2.510                  | 9.360                  | 9.992                    | 6.76          | 1.650                   | 6.050                   | 6.569                     | 8.57          |
| SAR18     | 2026-02-20 | 835             | 251.19           | D835V2 - 4d167  | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.570                  | 9.360                  | 10.231                   | 9.31          | 1.600                   | 6.050                   | 6.370                     | 5.28          |
| SAR19     | 2026-02-24 | 835             | 251.19           | D835V2 - 4d167  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.410                  | 9.360                  | 9.594                    | 2.50          | 1.590                   | 6.050                   | 6.330                     | 4.63          |
| SAR19     | 2026-03-02 | 835             | 251.19           | D835V2 - 4d167  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.380                  | 9.360                  | 9.475                    | 1.23          | 1.570                   | 6.050                   | 6.250                     | 3.31          |
| SAR20     | 2026-03-07 | 835             | 251.19           | D835V2 - 4d167  | EX3DV4 - SN7814 | DAE4 Sn778    | 2.430                  | 9.360                  | 9.674                    | 3.35          | 1.600                   | 6.050                   | 6.370                     | 5.28          |
| SAR18     | 2026-03-14 | 835             | 251.19           | D835V2 - 4d167  | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.370                  | 9.360                  | 9.435                    | 0.80          | 1.570                   | 6.050                   | 6.250                     | 3.31          |
| SAR18     | 2026-03-21 | 1640            | 50.12            | D1640V2 - 346   | EX3DV4 - SN7785 | DAE4 Sn1707   | 1.680                  | 34.200                 | 33.520                   | -1.99         | 0.905                   | 18.600                  | 18.057                    | -2.92         |
| SAR18     | 2026-04-08 | 1640            | 50.12            | D1640V2 - 346   | EX3DV4 - SN7785 | DAE4 Sn1707   | 1.700                  | 34.200                 | 33.919                   | -0.82         | 0.911                   | 18.600                  | 18.176                    | -2.28         |
| SAR18     | 2026-01-02 | 1750            | 50.12            | D1750V2 - 1112  | EX3DV4 - SN7785 | DAE4 Sn1707   | 1.710                  | 36.300                 | 34.118                   | -6.01         | 0.910                   | 19.300                  | 18.156                    | -5.93         |
| SAR18     | 2026-01-05 | 1750            | 50.12            | D1750V2 - 1112  | EX3DV4 - SN7785 | DAE4 Sn1707   | 1.750                  | 36.300                 | 34.916                   | -3.81         | 0.927                   | 19.300                  | 18.496                    | -4.17         |
| SAR19     | 2026-01-20 | 1750            | 50.12            | D1750V2 - 1112  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.840                  | 36.300                 | 36.712                   | 1.13          | 0.973                   | 19.300                  | 19.413                    | 0.59          |
| SAR19     | 2026-01-25 | 1750            | 50.12            | D1750V2 - 1112  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.780                  | 36.300                 | 35.515                   | -2.16         | 0.940                   | 19.300                  | 18.755                    | -2.82         |
| SAR19     | 2026-01-28 | 1750            | 50.12            | D1750V2 - 1112  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.800                  | 36.300                 | 35.914                   | -1.06         | 0.951                   | 19.300                  | 18.974                    | -1.69         |
| SAR19     | 2026-01-30 | 1750            | 50.12            | D1750V2 - 1112  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.800                  | 36.300                 | 35.914                   | -1.06         | 0.947                   | 19.300                  | 18.895                    | -2.10         |
| SAR19     | 2026-02-06 | 1750            | 50.12            | D1750V2 - 1112  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.750                  | 36.300                 | 34.916                   | -3.81         | 0.926                   | 19.300                  | 18.476                    | -4.27         |
| SAR18     | 2026-02-10 | 1750            | 251.19           | D1750V2 - 1112  | EX3DV4 - SN7785 | DAE4 Sn1707   | 9.000                  | 36.300                 | 35.829                   | -1.30         | 4.830                   | 19.300                  | 19.228                    | -0.37         |
| SAR18     | 2026-02-17 | 1750            | 251.19           | D1750V2 - 1112  | EX3DV4 - SN7785 | DAE4 Sn1707   | 8.960                  | 36.300                 | 35.670                   | -1.73         | 4.790                   | 19.300                  | 19.069                    | -1.20         |
| SAR20     | 2026-02-18 | 1750            | 50.12            | D1750V2 - 1112  | EX3DV4 - SN7814 | DAE4 Sn778    | 1.780                  | 36.300                 | 35.515                   | -2.16         | 0.948                   | 19.300                  | 18.915                    | -2.00         |
| SAR19     | 2026-02-22 | 1750            | 50.12            | D1750V2 - 1112  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.800                  | 36.300                 | 35.914                   | -1.06         | 0.957                   | 19.300                  | 19.094                    | -1.07         |
| SAR19     | 2026-02-27 | 1750            | 50.12            | D1750V2 - 1112  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.830                  | 36.300                 | 36.512                   | 0.59          | 0.972                   | 19.300                  | 19.393                    | 0.48          |
| SAR19     | 2026-02-28 | 1750            | 50.12            | D1750V2 - 1112  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.800                  | 36.300                 | 35.914                   | -1.06         | 0.950                   | 19.300                  | 18.955                    | -1.79         |
| SAR19     | 2026-03-06 | 1750            | 50.12            | D1750V2 - 1112  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.780                  | 36.300                 | 35.515                   | -2.16         | 0.949                   | 19.300                  | 18.935                    | -1.89         |
| SAR18     | 2026-03-30 | 1750            | 50.12            | D1750V2 - 1112  | EX3DV4 - SN7785 | DAE4 Sn1707   | 1.770                  | 36.300                 | 35.315                   | -2.71         | 0.946                   | 19.300                  | 18.875                    | -2.20         |
| SAR18     | 2026-01-02 | 1900            | 50.12            | D1900V2 - 5d185 | EX3DV4 - SN7785 | DAE4 Sn1707   | 1.950                  | 39.600                 | 38.907                   | -1.75         | 1.010                   | 20.800                  | 20.152                    | -3.12         |
| SAR19     | 2026-01-20 | 1900            | 50.12            | D1900V2 - 5d185 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.080                  | 39.600                 | 41.500                   | 4.80          | 1.070                   | 20.800                  | 21.349                    | 2.64          |
| SAR19     | 2026-01-25 | 1900            | 50.12            | D1900V2 - 5d185 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.010                  | 39.600                 | 40.104                   | 1.27          | 1.040                   | 20.800                  | 20.750                    | -0.24         |
| SAR19     | 2026-01-28 | 1900            | 50.12            | D1900V2 - 5d041 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.990                  | 39.200                 | 39.705                   | 1.29          | 1.030                   | 20.700                  | 20.551                    | -0.72         |
| SAR19     | 2026-01-30 | 1900            | 50.12            | D1900V2 - 5d185 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.930                  | 39.600                 | 38.508                   | -2.76         | 0.997                   | 20.800                  | 19.892                    | -4.36         |
| SAR18     | 2026-02-17 | 1900            | 251.19           | D1900V2 - 5d185 | EX3DV4 - SN7785 | DAE4 Sn1707   | 10.300                 | 39.600                 | 41.005                   | 3.55          | 5.350                   | 20.800                  | 21.299                    | 2.40          |
| SAR19     | 2026-02-22 | 1900            | 50.12            | D1900V2 - 5d185 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.990                  | 39.600                 | 39.705                   | 0.26          | 1.030                   | 20.800                  | 20.551                    | -1.20         |
| SAR19     | 2026-02-23 | 1900            | 50.12            | D1900V2 - 5d041 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.970                  | 39.200                 | 39.306                   | 0.27          | 1.020                   | 20.700                  | 20.351                    | -1.69         |
| SAR19     | 2026-02-27 | 1900            | 50.12            | D1900V2 - 5d185 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.070                  | 39.600                 | 41.301                   | 4.30          | 1.070                   | 20.800                  | 21.349                    | 2.64          |
| SAR19     | 2026-03-06 | 1900            | 50.12            | D1900V2 - 5d185 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 1.990                  | 39.600                 | 39.705                   | 0.26          | 1.040                   | 20.800                  | 20.750                    | -0.24         |
| SAR20     | 2026-03-06 | 1900            | 50.12            | D1900V2 - 5d185 | EX3DV4 - SN7814 | DAE4 Sn778    | 2.010                  | 39.600                 | 40.104                   | 1.27          | 1.040                   | 20.800                  | 20.750                    | -0.24         |
| SAR18     | 2026-03-14 | 1900            | 50.12            | D1900V2 - 5d185 | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.010                  | 39.600                 | 40.104                   | 1.27          | 1.050                   | 20.800                  | 20.950                    | 0.72          |
| SAR18     | 2026-03-21 | 2000            | 50.12            | D2000V2 - 1070  | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.100                  | 41.000                 | 41.899                   | 2.19          | 1.070                   | 21.300                  | 21.349                    | 0.23          |
| SAR18     | 2026-04-08 | 2000            | 50.12            | D2000V2 - 1010  | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.090                  | 41.000                 | 41.700                   | 1.71          | 1.070                   | 21.500                  | 21.349                    | -0.70         |
| SAR18     | 2026-01-03 | 2300            | 50.12            | D2300V2 - 1006  | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.350                  | 48.200                 | 46.887                   | -2.72         | 1.130                   | 23.200                  | 22.546                    | -2.82         |
| SAR19     | 2026-01-19 | 2300            | 50.12            | D2300V2 - 1006  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.490                  | 48.200                 | 49.681                   | 3.07          | 1.190                   | 23.200                  | 23.743                    | 2.34          |
| SAR19     | 2026-01-29 | 2300            | 50.12            | D2300V2 - 1006  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.470                  | 48.200                 | 49.282                   | 2.24          | 1.180                   | 23.200                  | 23.543                    | 1.48          |
| SAR21     | 2026-02-18 | 2300            | 50.12            | D2300V2 - 1006  | EX3DV4 - SN3931 | DAE4 Sn1697   | 2.550                  | 48.200                 | 50.878                   | 5.56          | 1.220                   | 23.200                  | 24.342                    | 4.92          |
| SAR20     | 2026-02-18 | 2300            | 50.12            | D2300V2 - 1006  | EX3DV4 - SN7814 | DAE4 Sn778    | 2.380                  | 48.200                 | 47.486                   | -1.48         | 1.140                   | 23.200                  | 22.745                    | -1.96         |
| SAR19     | 2026-02-21 | 2300            | 50.12            | D2300V2 - 1006  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.430                  | 48.200                 | 48.484                   | 0.59          | 1.170                   | 23.200                  | 23.344                    | 0.62          |
| SAR18     | 2026-03-01 | 2300            | 50.12            | D2300V2 - 1006  | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.470                  | 48.200                 | 49.282                   | 2.24          | 1.180                   | 23.200                  | 23.543                    | 1.48          |
| SAR18     | 2026-03-30 | 2300            | 50.12            | D2300V2 - 1006  | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.400                  | 48.200                 | 47.885                   | -0.65         | 1.150                   | 23.200                  | 22.945                    | -1.10         |
| SAR18     | 2026-01-03 | 2600            | 251.19           | D2600V2 - 1008  | EX3DV4 - SN7785 | DAE4 Sn1707   | 12.800                 | 55.700                 | 50.957                   | -8.51         | 5.740                   | 25.300                  | 22.851                    | -9.68         |
| SAR19     | 2026-01-19 | 2600            | 50.12            | D2600V2 - 1008  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.650                  | 55.700                 | 52.873                   | -5.08         | 1.200                   | 25.300                  | 23.943                    | -5.37         |
| SAR19     | 2026-01-22 | 2600            | 50.12            | D2600V2 - 1008  | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.660                  | 55.700                 | 53.073                   | -4.72         | 1.190                   | 25.300                  | 23.743                    | -6.15         |



# FCC SAR TEST REPORT

Report No. : FA5N0803-01C

|        |            |      |        |                |                 |               |       |        |        |       |       |        |        |       |
|--------|------------|------|--------|----------------|-----------------|---------------|-------|--------|--------|-------|-------|--------|--------|-------|
| SAR20  | 2026-01-24 | 2600 | 50.12  | D2600V2 - 1008 | EX3DV4 - SN7814 | DAE4 Sn1776   | 2.580 | 55.700 | 51.476 | -7.58 | 1.150 | 25.300 | 22.945 | -9.31 |
| SAR19  | 2026-01-29 | 2600 | 50.12  | D2600V2 - 1008 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.660 | 55.700 | 53.073 | -4.72 | 1.190 | 25.300 | 23.743 | -6.15 |
| SAR19  | 2026-01-31 | 2600 | 50.12  | D2600V2 - 1008 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.670 | 55.700 | 53.272 | -4.36 | 1.190 | 25.300 | 23.743 | -6.15 |
| SAR19  | 2026-02-10 | 2600 | 50.12  | D2600V2 - 1008 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.580 | 55.700 | 51.476 | -7.58 | 1.150 | 25.300 | 22.945 | -9.31 |
| SAR21  | 2026-02-18 | 2600 | 50.12  | D2600V2 - 1008 | EX3DV4 - SN3931 | DAE4 Sn1697   | 2.620 | 55.700 | 52.275 | -6.15 | 1.180 | 25.300 | 23.543 | -6.94 |
| SAR22  | 2026-02-20 | 2600 | 50.12  | D2600V2 - 1008 | EX3DV4 - SN7695 | DAE4ip Sn1823 | 3.060 | 55.700 | 61.053 | 9.61  | 1.390 | 25.300 | 27.733 | 9.62  |
| SAR19  | 2026-02-21 | 2600 | 50.12  | D2600V2 - 1008 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.630 | 55.700 | 52.474 | -5.79 | 1.180 | 25.300 | 23.543 | -6.94 |
| SAR19  | 2026-02-26 | 2600 | 50.12  | D2600V2 - 1008 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.630 | 55.700 | 52.474 | -5.79 | 1.170 | 25.300 | 23.344 | -7.73 |
| SAR19  | 2026-02-28 | 2600 | 50.12  | D2600V2 - 1008 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.680 | 55.700 | 53.472 | -4.00 | 1.200 | 25.300 | 23.943 | -5.37 |
| SAR18  | 2026-03-02 | 2600 | 50.12  | D2600V2 - 1008 | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.530 | 55.700 | 50.479 | -9.37 | 1.150 | 25.300 | 22.945 | -9.31 |
| SAR20  | 2026-03-02 | 2600 | 50.12  | D2600V2 - 1008 | EX3DV4 - SN7814 | DAE4 Sn778    | 2.740 | 55.700 | 54.669 | -1.85 | 1.230 | 25.300 | 24.541 | -3.00 |
| SAR18  | 2026-03-30 | 2600 | 47.64  | D2600V2 - 1008 | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.500 | 55.700 | 52.477 | -5.79 | 1.120 | 25.300 | 23.510 | -7.08 |
| SAR18  | 2026-01-04 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.210 | 65.700 | 64.046 | -2.52 | 1.220 | 24.900 | 24.342 | -2.24 |
| SAR18  | 2026-01-07 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.400 | 65.700 | 67.837 | 3.25  | 1.290 | 24.900 | 25.738 | 3.37  |
| SAR19  | 2026-02-02 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.140 | 65.700 | 62.650 | -4.64 | 1.170 | 24.900 | 23.344 | -6.25 |
| SAR18  | 2026-02-03 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.120 | 65.700 | 62.251 | -5.25 | 1.180 | 24.900 | 23.543 | -5.45 |
| SAR19  | 2026-02-07 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.180 | 65.700 | 63.448 | -3.43 | 1.200 | 24.900 | 23.943 | -3.85 |
| SAR19  | 2026-02-08 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.130 | 65.700 | 62.450 | -4.95 | 1.170 | 24.900 | 23.344 | -6.25 |
| SAR19  | 2026-02-09 | 3500 | 100.00 | D3500V2 - 1014 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 6.290 | 65.700 | 62.900 | -4.26 | 2.380 | 24.900 | 23.800 | -4.42 |
| SAR21  | 2026-02-09 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN3931 | DAE4 Sn1697   | 3.090 | 65.700 | 61.652 | -6.16 | 1.190 | 24.900 | 23.743 | -4.65 |
| SAR20  | 2026-02-17 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7814 | DAE4 Sn778    | 3.230 | 65.700 | 64.445 | -1.91 | 1.230 | 24.900 | 24.541 | -1.44 |
| SAR18  | 2026-02-24 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.430 | 65.700 | 68.436 | 4.16  | 1.320 | 24.900 | 26.337 | 5.77  |
| SAR18  | 2026-02-25 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.350 | 65.700 | 66.840 | 1.73  | 1.280 | 24.900 | 25.539 | 2.57  |
| SAR19  | 2026-02-26 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.230 | 65.700 | 64.445 | -1.91 | 1.220 | 24.900 | 24.342 | -2.24 |
| SAR18  | 2026-02-26 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.420 | 65.700 | 68.236 | 3.86  | 1.310 | 24.900 | 26.137 | 4.97  |
| SAR19  | 2026-03-01 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.270 | 65.700 | 65.243 | -0.69 | 1.250 | 24.900 | 24.940 | 0.16  |
| SAR18  | 2026-03-02 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.340 | 65.700 | 66.640 | 1.43  | 1.290 | 24.900 | 25.738 | 3.37  |
| SAR19  | 2026-03-15 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.120 | 65.700 | 62.251 | -5.25 | 1.170 | 24.900 | 23.344 | -6.25 |
| SAR19  | 2026-03-31 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.150 | 65.700 | 62.849 | -4.34 | 1.190 | 24.900 | 23.743 | -4.65 |
| SAR18  | 2026-04-01 | 3500 | 50.12  | D3500V2 - 1014 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.380 | 65.700 | 67.438 | 2.65  | 1.300 | 24.900 | 25.938 | 4.17  |
| SAR18  | 2026-01-04 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.310 | 69.900 | 66.042 | -5.52 | 1.230 | 25.600 | 24.541 | -4.14 |
| SAR18  | 2026-01-07 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.460 | 69.900 | 69.034 | -1.24 | 1.280 | 25.600 | 25.539 | -0.24 |
| SAR19  | 2026-02-02 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.250 | 69.900 | 64.844 | -7.23 | 1.180 | 25.600 | 23.543 | -8.03 |
| SAR18  | 2026-02-03 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.290 | 69.900 | 65.642 | -6.09 | 1.220 | 25.600 | 24.342 | -4.92 |
| SAR19  | 2026-02-07 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.310 | 69.900 | 66.042 | -5.52 | 1.210 | 25.600 | 24.142 | -5.70 |
| SAR19  | 2026-02-08 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.450 | 69.900 | 68.835 | -1.52 | 1.250 | 25.600 | 24.940 | -2.58 |
| SAR19  | 2026-02-09 | 3700 | 100.00 | D3700V2 - 1006 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 6.480 | 69.900 | 64.800 | -7.30 | 2.380 | 25.600 | 23.800 | -7.03 |
| SAR21  | 2026-02-09 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN3931 | DAE4 Sn1697   | 3.180 | 69.900 | 63.448 | -9.23 | 1.180 | 25.600 | 23.543 | -8.03 |
| SAR20  | 2026-02-17 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7814 | DAE4 Sn778    | 3.480 | 69.900 | 69.433 | -0.67 | 1.290 | 25.600 | 25.738 | 0.54  |
| SAR18  | 2026-02-24 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.570 | 69.900 | 71.229 | 1.90  | 1.340 | 25.600 | 26.736 | 4.44  |
| SAR18  | 2026-02-25 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.400 | 69.900 | 67.837 | -2.95 | 1.260 | 25.600 | 25.140 | -1.80 |
| SAR19  | 2026-02-26 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.410 | 69.900 | 68.037 | -2.67 | 1.260 | 25.600 | 25.140 | -1.80 |
| SAR18  | 2026-02-26 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.540 | 69.900 | 70.630 | 1.05  | 1.320 | 25.600 | 26.337 | 2.88  |
| SAR19  | 2026-03-01 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.460 | 69.900 | 69.034 | -1.24 | 1.280 | 25.600 | 25.539 | -0.24 |
| SAR18  | 2026-03-02 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.510 | 69.900 | 70.032 | 0.19  | 1.320 | 25.600 | 26.337 | 2.88  |
| SAR19  | 2026-03-15 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.310 | 69.900 | 66.042 | -5.52 | 1.210 | 25.600 | 24.142 | -5.70 |
| SAR19  | 2026-03-31 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.320 | 69.900 | 66.241 | -5.23 | 1.230 | 25.600 | 24.541 | -4.14 |
| SAR18  | 2026-04-01 | 3700 | 50.12  | D3700V2 - 1006 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.450 | 69.900 | 68.835 | -1.52 | 1.280 | 25.600 | 25.539 | -0.24 |
| SAR19  | 2026-02-07 | 3900 | 50.12  | D3900V2 - 1092 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.060 | 67.000 | 61.053 | -8.88 | 1.070 | 23.200 | 21.349 | -7.98 |
| SAR19  | 2026-02-08 | 3900 | 50.12  | D3900V2 - 1092 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.360 | 67.000 | 67.039 | 0.06  | 1.170 | 23.200 | 23.344 | 0.62  |
| SAR19  | 2026-02-09 | 3900 | 100.00 | D3900V2 - 1092 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 6.720 | 67.000 | 67.200 | 0.30  | 2.360 | 23.200 | 23.600 | 1.72  |
| SAR21  | 2026-02-09 | 3900 | 50.12  | D3900V2 - 1092 | EX3DV4 - SN3931 | DAE4 Sn1697   | 3.100 | 67.000 | 61.852 | -7.68 | 1.120 | 23.200 | 22.346 | -3.68 |
| SAR18  | 2026-02-24 | 3900 | 50.12  | D3900V2 - 1092 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.350 | 67.000 | 66.840 | -0.24 | 1.200 | 23.200 | 23.943 | 3.20  |
| SAR18  | 2026-02-25 | 3900 | 50.12  | D3900V2 - 1092 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.260 | 67.000 | 65.044 | -2.92 | 1.160 | 23.200 | 23.144 | -0.24 |
| SAR18  | 2026-02-26 | 3900 | 50.12  | D3900V2 - 1092 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.310 | 67.000 | 66.042 | -1.43 | 1.180 | 23.200 | 23.543 | 1.48  |
| SAR18  | 2026-03-02 | 3900 | 50.12  | D3900V2 - 1092 | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.370 | 67.000 | 67.239 | 0.36  | 1.200 | 23.200 | 23.943 | 3.20  |
| SAR19  | 2026-03-15 | 3900 | 50.12  | D3900V2 - 1092 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.070 | 67.000 | 61.253 | -8.58 | 1.070 | 23.200 | 21.349 | -7.98 |
| SAR19  | 2026-03-31 | 3900 | 50.12  | D3900V2 - 1092 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.030 | 67.000 | 60.455 | -9.77 | 1.070 | 23.200 | 21.349 | -7.98 |
| SAR-20 | 2026/1/8   | 2450 | 50     | D2450V2-736    | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.570 | 51.400 | 51.4   | 0.00  | 1.190 | 24.200 | 23.8   | -1.65 |
| SAR-20 | 2026/1/12  | 2450 | 50     | D2450V2-929    | EX3DV4 - SN7785 | DAE4 Sn1707   | 2.550 | 53.300 | 51     | -4.32 | 1.190 | 25.200 | 23.8   | -5.56 |
| SAR-18 | 2026/3/5   | 2450 | 50     | D2450V2-929    | EX3DV4 - SN3931 | DAE4 Sn1697   | 2.540 | 53.300 | 50.8   | -4.69 | 1.200 | 25.200 | 24     | -4.76 |
| SAR-18 | 2026/3/6   | 2450 | 50     | D2450V2-736    | EX3DV4 - SN3931 | DAE4 Sn1697   | 2.590 | 51.400 | 51.8   | 0.78  | 1.220 | 24.200 | 24.4   | 0.83  |
| SAR-19 | 2026/3/21  | 2450 | 50     | D2450V2-929    | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.640 | 53.300 | 52.8   | -0.94 | 1.230 | 25.200 | 24.6   | -2.38 |
| SAR-19 | 2026/3/23  | 2450 | 50     | D2450V2-929    | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.580 | 53.300 | 51.6   | -3.19 | 1.200 | 25.200 | 24     | -4.76 |
| SAR-19 | 2026/3/25  | 2450 | 50     | D2450V2-736    | EX3DV4 - SN7625 | DAE4ip Sn1800 | 2.530 | 51.400 | 50.6   | -1.56 | 1.180 | 24.200 | 23.6   | -2.48 |
| SAR-20 | 2026/1/9   | 5250 | 50     | D5GHzV2-1006   | EX3DV4 - SN7785 | DAE4 Sn1707   | 4.210 | 80.600 | 84.2   | 4.47  | 1.210 | 22.800 | 24.2   | 6.14  |
| SAR-18 | 2026/3/5   | 5250 | 49     | D5GHzV2-1006   | EX3DV4 - SN3931 | DAE4 Sn1697   | 3.590 | 80.600 | 73.3   | -9.10 | 1.050 | 22.800 | 21.4   | -6.02 |
| SAR-19 | 2026/3/17  | 5250 | 50     | D5GHzV2-1006   | EX3DV4 - SN7625 | DAE4ip Sn1800 | 3.910 | 80.600 | 78.2   | -2.98 | 1.130 | 22.800 | 22.6   | -0.88 |
| SAR-19 | 2026/3/18  | 5250 | 50     | D5GHzV2-1006   | EX3DV4 - SN7625 | DAE4ip Sn1800 | 4.020 | 80.600 | 80.4   | -0.25 | 1.160 | 22.800 | 23.2   | 1.75  |
| SAR-20 | 2026/1/9   | 5600 | 50     | D5GHzV2-1006   | EX3DV4 - SN7785 | DAE4 Sn1707   | 3.770 | 83.400 | 75.4   | -9.59 | 1.110 | 23.700 | 22.2   | -6.33 |
| SAR-18 | 2026/3/5   | 5600 | 50     | D5GHzV2-1006   | EX3DV4 - SN3931 | DAE4 Sn1697   | 3.840 | 80.600 | 76.8   | -4.71 | 1.110 | 22.700 | 22.2   | -2.20 |
| SAR-19 | 2026/3/17  | 5600 | 50     | D5GHzV2-1006   | EX3DV           |               |       |        |        |       |       |        |        |       |

|        |           |      |      |                |                 |               |        |         |      |       |       |        |       |       |
|--------|-----------|------|------|----------------|-----------------|---------------|--------|---------|------|-------|-------|--------|-------|-------|
| SAR-18 | 2026/3/5  | 5800 | 50   | D5GHzV2-1006   | EX3DV4 - SN3931 | DAE4 Sn1697   | 3.760  | 83.400  | 75.2 | -9.83 | 1.080 | 23.700 | 21.6  | -8.86 |
| SAR-19 | 2026/3/17 | 5800 | 50   | D5GHzV2-1006   | EX3DV4 - SN7625 | DAE4ip Sn1800 | 4.140  | 80.600  | 82.8 | 2.73  | 1.190 | 22.700 | 23.8  | 4.85  |
| SAR-19 | 2026/3/18 | 5800 | 50   | D5GHzV2-1006   | EX3DV4 - SN7625 | DAE4ip Sn1800 | 4.250  | 80.600  | 85   | 5.46  | 1.210 | 22.700 | 24.2  | 6.61  |
| SAR-19 | 2026/3/19 | 6500 | 100  | D6.5GHzV2-1083 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 32.100 | 302.000 | 321  | 6.29  | 5.930 | 56.500 | 59.3  | 4.96  |
| SAR-19 | 2026/3/28 | 6500 | 100  | D6.5GHzV2-1083 | EX3DV4 - SN7625 | DAE4ip Sn1800 | 31.800 | 302.000 | 318  | 5.30  | 5.880 | 56.500 | 58.8  | 4.07  |
| SAR-18 | 2026/3/28 | 6500 | 100  | D6.5GHzV2-1083 | EX3DV4 - SN3931 | DAE4 Sn1697   | 30.500 | 302.000 | 305  | 0.99  | 5.620 | 56.500 | 56.2  | -0.53 |
| SAR-18 | 2026/3/29 | 6500 | 100  | D6.5GHzV2-1083 | EX3DV4 - SN3931 | DAE4 Sn1697   | 30.000 | 302.000 | 300  | -0.66 | 5.510 | 56.500 | 55.1  | -2.48 |
| SAR-18 | 2026/4/10 | 13   | 1000 | CLA13-1011     | EX3DV4 - SN3931 | DAE4 Sn1697   |        |         |      |       | 0.309 | 0.340  | 0.309 | -9.12 |

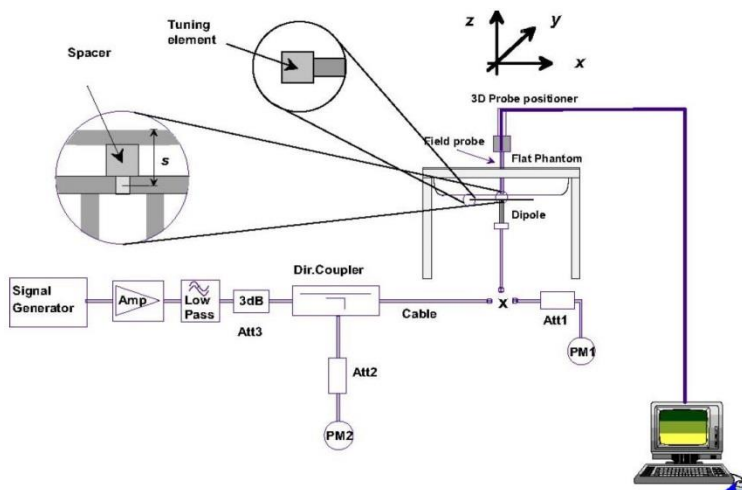


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

### **10.3 PD System Performance Check Results**

The system was verified to be within  $\pm 0.66$  dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes

| Test Location | Frequency (GHz) | 5G Verification Source | Probe S/N        | DAE S/N       | Distance (mm) | Measured 4 cm <sup>2</sup> (W/m <sup>2</sup> ) | Targeted 4 cm <sup>2</sup> (W/m <sup>2</sup> ) | Deviation (dB) | Date      |
|---------------|-----------------|------------------------|------------------|---------------|---------------|------------------------------------------------|------------------------------------------------|----------------|-----------|
| SAR14         | 10G             | 10GHz_1020             | EUmmWV4 - SN9461 | DAE4 Sn656    | 10mm          | 53.8                                           | 54.6                                           | -0.06          | 2026/3/25 |
| SAR17         | 10G             | 10GHz_1020             | EUmmWV4 - SN9461 | DAE4ip Sn1823 | 10mm          | 62                                             | 54.6                                           | 0.55           | 2026/3/27 |
| SAR14         | 10G             | 10GHz_1020             | EUmmWV3 - SN9424 | DAE4 Sn656    | 10mm          | 55.4                                           | 54.6                                           | 0.06           | 2026/4/1  |

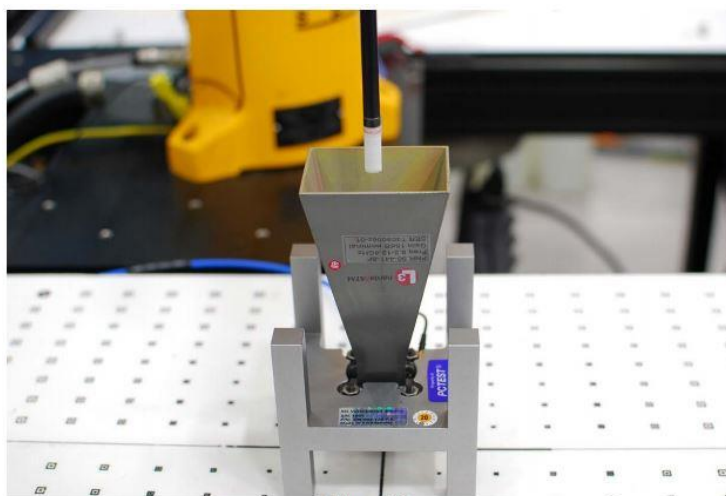


**Figure 4-3**  
**System Verification Setup Photo**

System Performance Check Setup

### 10.4 Computation of the Electric Field Polarization Ellipse

For the numerical description of an arbitrarily oriented ellipse in three-dimensional space, five parameters are needed: the semi-major axis ( $a$ ), the semi-minor axis ( $b$ ), two angles describing the orientation of the normal vector of the ellipse ( $\phi$ ,  $\theta$ ), and one angle describing the tilt of the semi-major axis ( $\psi$ ). For the two extreme cases, i.e., circular and linear polarizations, three parameters only ( $a$ ,  $\phi$  and  $\theta$ ) are sufficient for the description of the incident field.

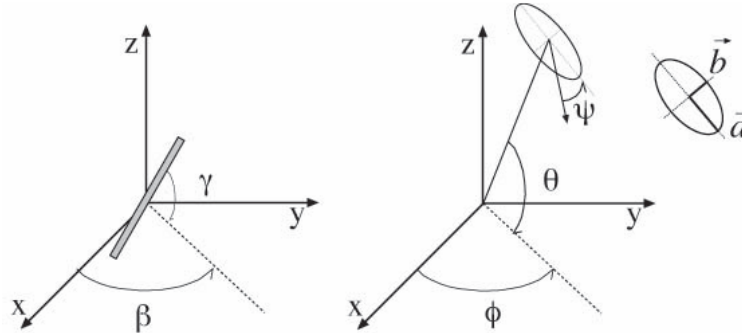


Illustration of the angles used for the numerical description of the sensor and the orientation of an ellipse in 3-D space.

For the reconstruction of the ellipse parameters from measured data, the problem can be reformulated as a nonlinear search problem. The semi-major and semi-minor axes of an elliptical field can be expressed as functions of the three angles ( $\phi$ ,  $\theta$  and  $\psi$ ). The parameters can be uniquely determined towards minimizing the error based on least-squares for the given set of angles and the measured data. In this way, the number of free parameters is reduced from five to three, which means that at least three sensor readings are necessary to gain sufficient information for the reconstruction of the ellipse parameters. However, to suppress the noise and increase the reconstruction accuracy, it is desirable that the system of equations be over determined. The solution to use a probe consisting of two sensors angled by  $r_1$  and  $r_2$  toward the probe axis and to perform measurements at three angular positions of the probe, i.e., at  $\beta_1$ ,  $\beta_2$  and  $\beta_3$ , results in over-determinations by a factor of two. If there is a need for more information or increased accuracy, more rotation angles can be added. The reconstruction of the ellipse parameters can be separated into linear and non-linear parts that are best solved by the Givens algorithm combined with a downhill simplex algorithm. To minimize the mutual coupling, sensor angles are set with a shift of 90 degree ( $r_2 = r_1 + 90$  degree), and to simplify, the first rotation angle of the probe ( $\beta_1$ ) can be set to 0 degree.

### 10.5 Total Field and Power Flux Density Reconstruction

Computation of the power density in general requires knowledge of the electric and magnetic field amplitudes and phases in the plane of incidence. Reconstruction of these quantities from pseudo-vector E-field measurements is feasible, as they are constrained by Maxwell's equations. SPEAG have developed a reconstruction approach based on the Gerchberg-Saxton algorithm, which benefits from the availability of the E-field polarization ellipse information obtained with the EUmmWV2 probe. The average of the reconstructed power density is evaluated over a circular area in each measurement plane. Two average power density values can be computed, the average total power density and the average incident power density, and the average total power density is used to determine compliance.

- $|Re\{S\}|$  is the total Poynting vector
- $\mathbf{n} \cdot Re\{S\}$  is the normal Poynting vector

The software post-processing reports to values, "S avg tot" and "S avg inc". "S avg tot" represents average total power density (all three xyz components included), and "S avg inc" represents average normal power density. The average total power density "S avg tot" is reported to determine the device compliance.

## **11. RF Exposure Positions**

### **11.1 Ear and handset reference point**

Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2. The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

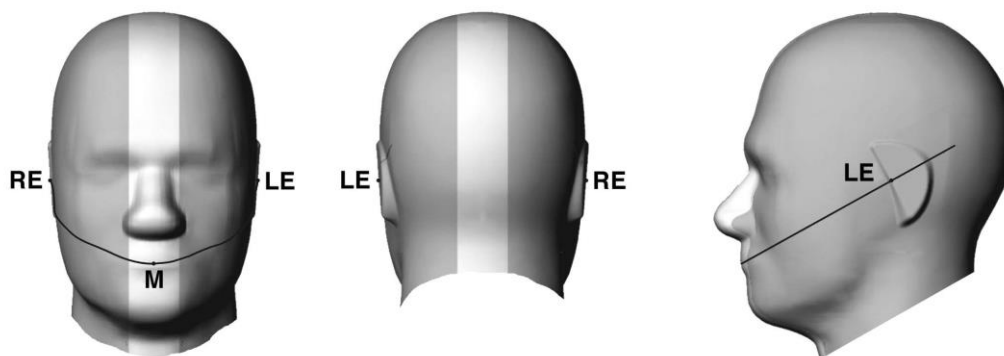


**Fig 9.1.1 Front, back, and side views of SAM twin phantom**

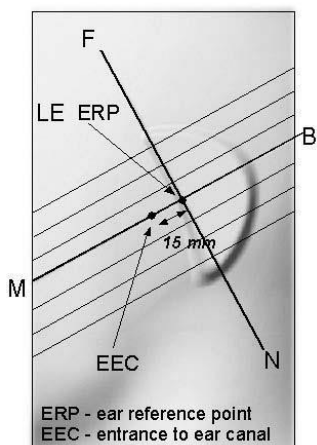


**Fig 9.1.2 Close-up side view of phantom showing the ear region.**

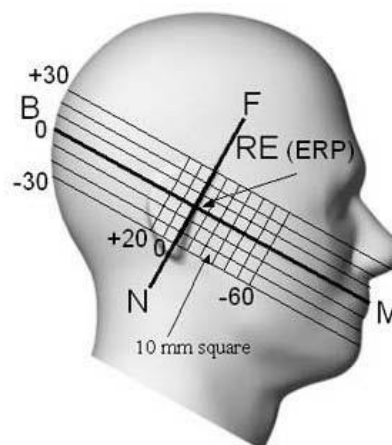


**Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations**

## 11.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width  $w_t$  of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width  $w_b$  of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

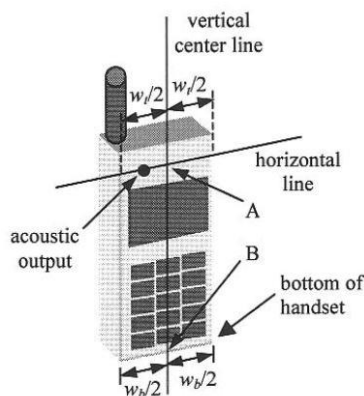


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case"

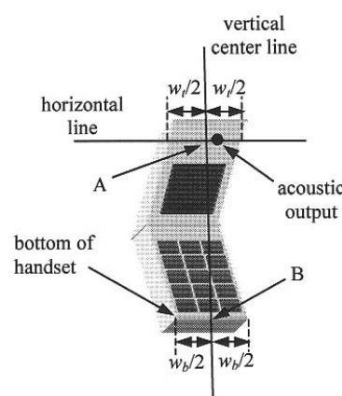


Fig 9.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

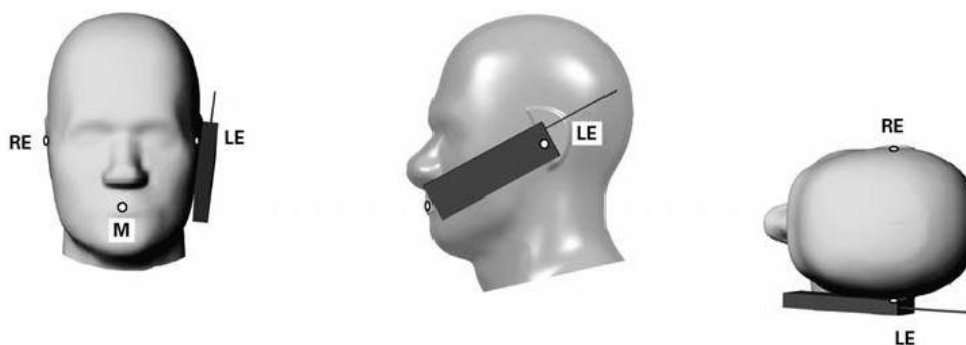


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

### **11.3 Definition of the tilt position**

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
3. Rotate the handset around the horizontal line by 15°.
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

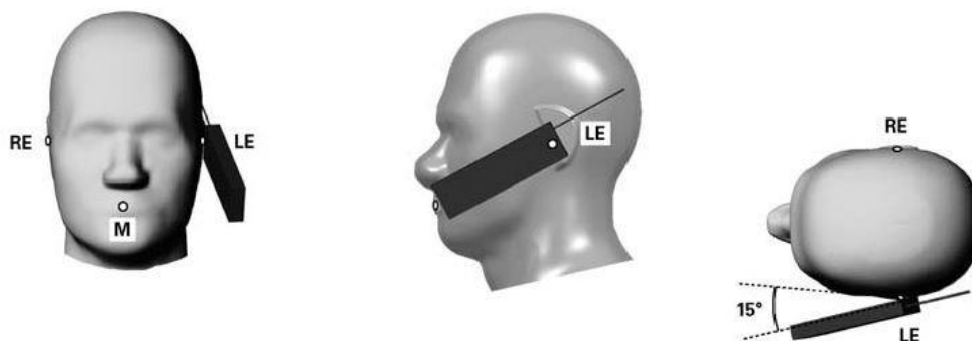


**Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.**

### **11.4 Body Worn Accessory**

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is  $> 1.2$  W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

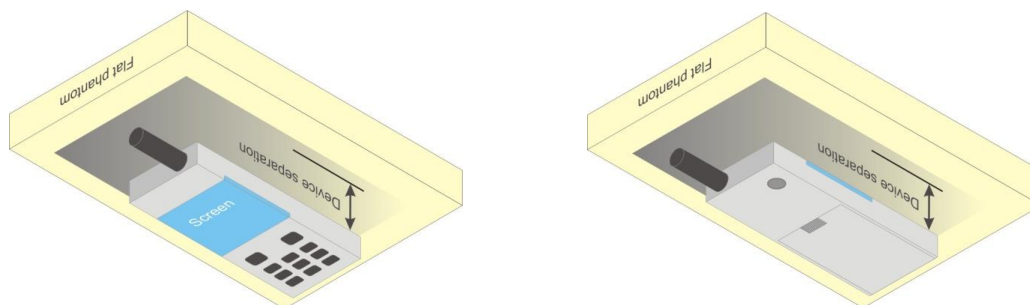


**Fig 9.4 Body Worn Position**



### **11.5 Product Specific Exposure**

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at  $\leq 25$  mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.<sup>6</sup> The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

### **11.6 Wireless Router**

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets ( $L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$ ) are based on a composite test separation distance of 5mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

## **12. UL/DL Carrier aggregation**

### **< DL Carrier Aggregation >**

#### **General Note:**

1. According to 202410 TCB workshop, the downlink (DL) pertains to receiver functionality, thus it is not related to RF exposure compliance limits related to cumulative effects of different transmitters.
2. According to 202410 TCB workshop, equipment authorization applications shall refer to the worst-case UL powers resulting from all the possible modes of operations. Accordingly, CA-DL cases do not need to be analyzed separately, unless pertinent to establishing UL power setting.
3. This device supports LTE carrier aggregation in the downlink. All uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded

### **< LTE UL carrier aggregation >**

#### **General Note:**

1. The device supports uplink carrier aggregation with a maximum of two component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.10 allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the 3GPP requirement.
2. According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
3. Additional SAR measurement for UL CA whit other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

| 2CC Uplink Carrier Aggregation |             |
|--------------------------------|-------------|
| Number                         | Combination |
| 1                              | 5B          |
| 2                              | 7C          |
| 3                              | 66B         |
| 4                              | 66C         |
| 5                              | 38C         |
| 6                              | 41C         |

**【CA\_5B\_Ant 0\_ECI 2】**

| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 24.28                | 25.00               |
| 20475                               | 20574       | QPSK       | 1       | 49        | 1       | 0         | 24.31                | 25.00               |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 24.31                | 25.00               |

**【CA\_5B\_Ant 0\_ECI 3】**

| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 24.28                | 25.00               |
| 20475                               | 20574       | QPSK       | 1       | 49        | 1       | 0         | 24.31                | 25.00               |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 24.31                | 25.00               |

**【CA\_5B\_Ant 0\_ECI 6】**

| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 21.13                | 21.50               |
| 20475                               | 20574       | QPSK       | 1       | 49        | 1       | 0         | 21.06                | 21.50               |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 21.14                | 21.50               |

**【CA\_5B\_Ant 0\_ECI 4】**

| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 21.13                | 21.50               |
| 20475                               | 20574       | QPSK       | 1       | 49        | 1       | 0         | 21.06                | 21.50               |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 21.14                | 21.50               |

**【CA\_5B\_Ant 0\_ECI 5】**

| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 21.13                | 21.50               |
| 20475                               | 20574       | QPSK       | 1       | 49        | 1       | 0         | 21.06                | 21.50               |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 21.14                | 21.50               |

**【CA\_5B\_Ant 1\_ECI 2】**

| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 21.88                | 23.80               |
| 20475                               | 20574       | QPSK       | 1       | 49        | 1       | 0         | 21.87                | 23.80               |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 22.01                | 23.80               |

**【CA\_5B\_Ant 1\_ECI 3】**

| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 21.88                | 23.00               |
| 20475                               | 20574       | QPSK       | 1       | 49        | 1       | 0         | 21.87                | 23.00               |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 22.01                | 23.00               |

**【CA\_5B\_Ant 1\_ECI 6】**

| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 23.97                | 24.90               |
| 20475                               | 20574       | QPSK       | 1       | 49        | 1       | 0         | 24.12                | 24.90               |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 24.03                | 24.90               |

**【CA\_5B\_Ant 1\_ECI 4】**

| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 23.97                | 24.90               |
| 20475                               | 20574       | QPSK       | 1       | 49        | 1       | 0         | 24.12                | 24.90               |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 24.03                | 24.90               |

**【CA\_5B\_Ant 1\_ECI 5】**

| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 49        | 1       | 0         | 23.97                | 24.90               |
| 20475                               | 20574       | QPSK       | 1       | 49        | 1       | 0         | 24.12                | 24.90               |
| 20600                               | 20501       | QPSK       | 1       | 0         | 1       | 49        | 24.03                | 24.90               |

**【CA\_7C\_Ant 0\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 24.02                | 25.00               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 24.12                | 25.00               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 24.23                | 25.00               |

**【CA\_7C\_Ant 0\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 24.02                | 25.00               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 24.12                | 25.00               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 24.23                | 25.00               |

**【CA\_7C\_Ant 0\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 16.21                | 16.40               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 16.11                | 16.40               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 16.26                | 16.40               |

**【CA\_7C\_Ant 0\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 16.21                | 18.10               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 16.11                | 18.10               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 16.26                | 18.10               |

**【CA\_7C\_Ant 0\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 16.21                | 16.40               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 16.11                | 16.40               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 16.26                | 16.40               |

**【CA\_7C\_Ant 2\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 22.95                | 24.40               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 22.98                | 24.40               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 22.99                | 24.40               |

**【CA\_7C\_Ant 2\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 22.95                | 23.00               |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 22.98                | 23.00               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 22.99                | 23.00               |

**【CA\_7C\_Ant 2\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 16.79                | 16.80               |
| 21100                                 | 20902       | QPSK       | 1       | 99        | 1       | 0         | 16.75                | 16.80               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 16.71                | 16.80               |

**【CA\_7C\_Ant 2\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 16.79                | 18.20               |
| 21100                                 | 20902       | QPSK       | 1       | 99        | 1       | 0         | 16.75                | 18.20               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 16.71                | 18.20               |

**【CA\_7C\_Ant 2\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 99        | 1       | 0         | 16.79                | 16.80               |
| 21100                                 | 20902       | QPSK       | 1       | 99        | 1       | 0         | 16.75                | 16.80               |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 16.71                | 16.80               |

**【CA\_38C\_Ant 0\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 24.11                | 24.90               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 24.16                | 24.90               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 24.10                | 24.90               |

**【CA\_38C\_Ant 0\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 24.11                | 24.90               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 24.16                | 24.90               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 24.10                | 24.90               |

**【CA\_38C\_Ant 0\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 18.08                | 18.10               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 18.09                | 18.10               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 18.06                | 18.10               |

**【CA\_38C\_Ant 0\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 18.08                | 18.90               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 18.09                | 18.90               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 18.06                | 18.90               |

**【CA\_38C\_Ant 0\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 18.08                | 18.10               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 18.09                | 18.10               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 18.06                | 18.10               |

**【CA\_38C\_Ant 1\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 17.23                | 19.00               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 17.14                | 19.00               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 17.22                | 19.00               |

**【CA\_38C\_Ant 1\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 17.23                | 18.30               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 17.14                | 18.30               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 17.22                | 18.30               |

**【CA\_38C\_Ant 1\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 18.63                | 18.70               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 18.61                | 18.70               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 18.65                | 18.70               |

**【CA\_38C\_Ant 1\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 18.63                | 20.60               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 18.61                | 20.60               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 18.65                | 20.60               |

**【CA\_38C\_Ant 1\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 18.63                | 18.70               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 18.61                | 18.70               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 18.65                | 18.70               |

**【CA\_38C\_Ant 2\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 24.21                | 25.00               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 24.12                | 25.00               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 24.23                | 25.00               |

**【CA\_38C\_Ant 2\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 24.21                | 24.90               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 24.12                | 24.90               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 24.23                | 24.90               |

**【CA\_38C\_Ant 2\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 18.88                | 19.00               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 18.90                | 19.00               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 18.95                | 19.00               |

**【CA\_38C\_Ant 2\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 18.88                | 19.30               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 18.90                | 19.30               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 18.95                | 19.30               |

**【CA\_38C\_Ant 2\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 18.88                | 19.00               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 18.90                | 19.00               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 18.95                | 19.00               |

**【CA\_38C\_Ant 5\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 17.54                | 18.80               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 17.44                | 18.80               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 17.57                | 18.80               |

**【CA\_38C\_Ant 5\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 17.54                | 18.10               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 17.44                | 18.10               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 17.57                | 18.10               |

**【CA\_38C\_Ant 5\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 17.54                | 18.10               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 17.44                | 18.10               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 17.57                | 18.10               |

**【CA\_38C\_Ant 5\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 19.75                | 21.50               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 19.67                | 21.50               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 19.74                | 21.50               |

**【CA\_38C\_Ant 5\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 37850                                 | 38048       | QPSK       | 1       | 99        | 1       | 0         | 17.54                | 18.10               |
| 37901                                 | 38099       | QPSK       | 1       | 99        | 1       | 0         | 17.44                | 18.10               |
| 38150                                 | 37952       | QPSK       | 1       | 0         | 1       | 99        | 17.57                | 18.10               |

**【CA\_41C\_Ant 0\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 23.94                | 24.90               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 24.00                | 24.90               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 24.01                | 24.90               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 23.96                | 24.90               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 24.06                | 24.90               |

**【CA\_41C HPUE\_Ant 0\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 23.94                | 24.90               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 24.00                | 24.90               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 24.01                | 24.90               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 23.96                | 24.90               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 24.06                | 24.90               |

**【CA\_41C HPUE\_Ant 0\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.06                | 18.10               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 18.09                | 18.10               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 18.08                | 18.10               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 18.05                | 18.10               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 18.06                | 18.10               |

**【CA\_41C HPUE\_Ant 0\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.06                | 18.90               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 18.09                | 18.90               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 18.08                | 18.90               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 18.05                | 18.90               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 18.06                | 18.90               |

**【CA\_41C HPUE\_Ant 0\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.06                | 18.10               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 18.09                | 18.10               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 18.08                | 18.10               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 18.05                | 18.10               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 18.06                | 18.10               |

**【CA\_41C HPUE\_Ant 1\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 17.42                | 19.00               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 17.48                | 19.00               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 17.34                | 19.00               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 17.46                | 19.00               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 17.18                | 19.00               |

**【CA\_41C HPUE\_Ant 1\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 17.42                | 18.30               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 17.48                | 18.30               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 17.34                | 18.30               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 17.46                | 18.30               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 17.18                | 18.30               |

**【CA\_41C HPUE\_Ant 1\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.66                | 18.70               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 18.67                | 18.70               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 18.67                | 18.70               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 18.65                | 18.70               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 18.66                | 18.70               |

**【CA\_41C HPUE\_Ant 1\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.66                | 20.60               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 18.67                | 20.60               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 18.67                | 20.60               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 18.65                | 20.60               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 18.66                | 20.60               |

**【CA\_41C HPUE\_Ant 1\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.66                | 18.70               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 18.67                | 18.70               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 18.67                | 18.70               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 18.65                | 18.70               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 18.66                | 18.70               |

**【CA\_41C HPUE\_Ant 2\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 24.09                | 25.00               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 24.24                | 25.00               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 24.20                | 25.00               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 24.17                | 25.00               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 24.05                | 25.00               |

**【CA\_41C HPUE\_Ant 2\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 24.09                | 24.90               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 24.24                | 24.90               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 24.20                | 24.90               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 24.17                | 24.90               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 24.05                | 24.90               |

**【CA\_41C HPUE\_Ant 2\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.90                | 19.00               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 18.98                | 19.00               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 18.97                | 19.00               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 18.93                | 19.00               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 18.96                | 19.00               |

**【CA\_41C HPUE\_Ant 2\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.90                | 19.30               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 18.98                | 19.30               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 18.97                | 19.30               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 18.93                | 19.30               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 18.96                | 19.30               |

**【CA\_41C HPUE\_Ant 2\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.90                | 19.00               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 18.98                | 19.00               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 18.97                | 19.00               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 18.93                | 19.00               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 18.96                | 19.00               |

**【CA\_41C HPUE\_Ant 5\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.03                | 18.80               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 17.84                | 18.80               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 17.89                | 18.80               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 17.92                | 18.80               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 17.49                | 18.80               |

**【CA\_41C HPUE\_Ant 5\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.03                | 18.10               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 17.84                | 18.10               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 17.89                | 18.10               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 17.92                | 18.10               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 17.49                | 18.10               |

**【CA\_41C HPUE\_Ant 5\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.03                | 18.10               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 17.84                | 18.10               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 17.89                | 18.10               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 17.92                | 18.10               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 17.49                | 18.10               |

**【CA\_41C HPUE\_Ant 5\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 20.00                | 21.50               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 19.78                | 21.50               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 19.84                | 21.50               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 19.91                | 21.50               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 19.72                | 21.50               |

**【CA\_41C HPUE\_Ant 5\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 99        | 1       | 0         | 18.03                | 18.10               |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 17.84                | 18.10               |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 17.89                | 18.10               |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 17.92                | 18.10               |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 17.49                | 18.10               |

**【CA\_66B\_Ant 0\_ECI 2】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 23.90                | 24.90               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 23.96                | 24.90               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 23.95                | 24.90               |

**【CA\_66C\_Ant 0\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 24.05                | 24.90               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 23.82                | 24.90               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 23.92                | 24.90               |

**【CA\_66B\_Ant 0\_ECI 3】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 23.90                | 24.90               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 23.96                | 24.90               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 23.95                | 24.90               |

**【CA\_66C\_Ant 0\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 24.05                | 24.90               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 23.82                | 24.90               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 23.92                | 24.90               |

**【CA\_66B\_Ant 0\_ECI 6】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 14.62                | 14.90               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 14.75                | 14.90               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 14.70                | 14.90               |

**【CA\_66C\_Ant 0\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 14.68                | 14.90               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 14.67                | 14.90               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 14.77                | 14.90               |

**【CA\_66B\_Ant 0\_ECI 4】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 15.56                | 16.90               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 15.51                | 16.90               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 15.60                | 16.90               |

**【CA\_66C\_Ant 0\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 15.67                | 16.90               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 15.61                | 16.90               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 15.70                | 16.90               |

**【CA\_66B\_Ant 0\_ECI 5】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 14.62                | 14.90               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 14.75                | 14.90               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 14.70                | 14.90               |

**【CA\_66C\_Ant 0\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 14.68                | 14.90               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 14.67                | 14.90               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 14.77                | 14.90               |

**【CA\_66B\_Ant 1\_ECI 2】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 19.46                | 21.00               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 19.55                | 21.00               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 19.45                | 21.00               |

**【CA\_66C\_Ant 1\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 19.46                | 21.00               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 19.53                | 21.00               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 19.41                | 21.00               |

**【CA\_66B\_Ant 1\_ECI 3】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 19.46                | 20.20               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 19.55                | 20.20               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 19.45                | 20.20               |

**【CA\_66C\_Ant 1\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 19.46                | 20.20               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 19.53                | 20.20               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 19.41                | 20.20               |

**【CA\_66B\_Ant 1\_ECI 6】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 21.00                | 21.50               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 21.01                | 21.50               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 20.91                | 21.50               |

**【CA\_66C\_Ant 1\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 21.07                | 21.50               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 20.95                | 21.50               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 20.87                | 21.50               |

**【CA\_66B\_Ant 1\_ECI 4】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 21.00                | 22.20               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 21.01                | 22.20               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 20.91                | 22.20               |

**【CA\_66C\_Ant 1\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 21.07                | 22.20               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 20.95                | 22.20               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 20.87                | 22.20               |

**【CA\_66B\_Ant 1\_ECI 5】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 21.00                | 21.50               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 21.01                | 21.50               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 20.91                | 21.50               |

**【CA\_66C\_Ant 1\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 21.07                | 21.50               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 20.95                | 21.50               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 20.87                | 21.50               |

**【CA\_66B\_Ant 2\_ECI 2】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 24.00                | 25.00               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 23.91                | 25.00               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 23.95                | 25.00               |

**【CA\_66C\_Ant 2\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 24.22                | 25.00               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 23.99                | 25.00               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 24.11                | 25.00               |

**【CA\_66B\_Ant 2\_ECI 3】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 24.00                | 25.00               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 23.91                | 25.00               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 23.95                | 25.00               |

**【CA\_66C\_Ant 2\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 24.22                | 25.00               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 23.99                | 25.00               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 24.11                | 25.00               |

**【CA\_66B\_Ant 2\_ECI 6】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 20.34                | 20.40               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 20.33                | 20.40               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 20.21                | 20.40               |

**【CA\_66C\_Ant 2\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 20.35                | 20.40               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 20.31                | 20.40               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 20.13                | 20.40               |

**【CA\_66B\_Ant 2\_ECI 4】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 20.34                | 20.70               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 20.33                | 20.70               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 20.21                | 20.70               |

**【CA\_66C\_Ant 2\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 20.35                | 20.70               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 20.31                | 20.70               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 20.13                | 20.70               |

**【CA\_66B\_Ant 2\_ECI 5】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 20.34                | 20.40               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 20.33                | 20.40               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 20.21                | 20.40               |

**【CA\_66C\_Ant 2\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 20.35                | 20.40               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 20.31                | 20.40               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 20.13                | 20.40               |

**【CA\_66B\_Ant 5\_ECI 2】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 16.91                | 18.60               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 16.90                | 18.60               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 17.01                | 18.60               |

**【CA\_66C\_Ant 5\_ECI 2】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 16.88                | 18.60               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 16.94                | 18.60               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 17.04                | 18.60               |

**【CA\_66B\_Ant 5\_ECI 3】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 16.91                | 17.30               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 16.90                | 17.30               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 17.01                | 17.30               |

**【CA\_66C\_Ant 5\_ECI 3】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 16.88                | 17.30               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 16.94                | 17.30               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 17.04                | 17.30               |

**【CA\_66B\_Ant 5\_ECI 6】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 17.35                | 17.40               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 17.39                | 17.40               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 17.33                | 17.40               |

**【CA\_66C\_Ant 5\_ECI 6】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 17.30                | 17.40               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 17.36                | 17.40               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 17.35                | 17.40               |

**【CA\_66B\_Ant 5\_ECI 4】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 17.35                | 18.80               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 17.39                | 18.80               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 17.33                | 18.80               |

**【CA\_66C\_Ant 5\_ECI 4】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 17.30                | 18.80               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 17.36                | 18.80               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 17.35                | 18.80               |

**【CA\_66B\_Ant 5\_ECI 5】**

| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 74        | 1       | 0         | 17.35                | 17.40               |
| 132322                             | 132229      | QPSK       | 1       | 0         | 1       | 24        | 17.39                | 17.40               |
| 132597                             | 132504      | QPSK       | 1       | 0         | 1       | 24        | 17.33                | 17.40               |

**【CA\_66C\_Ant 5\_ECI 5】**

| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 99        | 1       | 0         | 17.30                | 17.40               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 1       | 99        | 17.36                | 17.40               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 1       | 99        | 17.35                | 17.40               |

**< FR1 UL carrier aggregation >**
**General Note:**

1. The device supports intra-band uplink carrier aggregation with a maximum of two component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 38.101 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 38.101 allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
2. According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
3. Additional SAR measurement for UL CA whit other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

| 2CC Uplink Carrier Aggregation |             |
|--------------------------------|-------------|
| Number                         | Combination |
| 1                              | n41B        |
| 2                              | n41C        |
| 3                              | n77C        |

**【CA\_n41B\_FCC\_Ant 2\_ECI 2】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | QPSK       | 64      | 69        | 64      | 0         | 21.68                | 22.50               |
| 518598                  | 528594      | QPSK       | 64      | 69        | 64      | 0         | 21.70                | 22.50               |
| 532998                  | 523002      | QPSK       | 64      | 0         | 64      | 69        | 21.67                | 22.50               |

**【CA\_n41C\_FCC\_Ant 2\_ECI 2】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | QPSK       | 108     | 137       | 144     | 0         | 21.17                | 22.50               |
| 518598                   | 537582      | QPSK       | 108     | 137       | 144     | 0         | 21.18                | 22.50               |
| 528996                   | 510012      | QPSK       | 108     | 0         | 144     | 129       | 21.17                | 22.50               |

**【CA\_n41B\_FCC\_Ant 0\_ECI 2】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | QPSK       | 64      | 69        | 64      | 0         | 21.50                | 22.40               |
| 518598                  | 528594      | QPSK       | 64      | 69        | 64      | 0         | 21.52                | 22.40               |
| 532998                  | 523002      | QPSK       | 64      | 0         | 64      | 69        | 21.50                | 22.40               |

**【CA\_n41C\_FCC\_Ant 0\_ECI 2】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | QPSK       | 108     | 137       | 144     | 0         | 21.00                | 22.40               |
| 518598                   | 537582      | QPSK       | 108     | 137       | 144     | 0         | 21.01                | 22.40               |
| 528996                   | 510012      | QPSK       | 108     | 0         | 144     | 129       | 20.98                | 22.40               |

**【CA\_n41B\_FCC\_Ant 1\_ECI 2】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 16.66                | 18.30               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 16.68                | 18.30               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 16.67                | 18.30               |

**【CA\_n41C\_FCC\_Ant 1\_ECI 2】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 16.58                | 18.30               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 16.63                | 18.30               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 16.59                | 18.30               |

**【CA\_n41B\_FCC\_Ant 5\_ECI 2】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 17.05                | 17.50               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 17.08                | 17.50               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 17.06                | 17.50               |

**【CA\_n41C\_FCC\_Ant 5\_ECI 2】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 17.02                | 17.50               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 17.06                | 17.50               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 17.05                | 17.50               |

**【CA\_n41B\_FCC\_Ant 2\_ECI 3】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | QPSK       | 64      | 69        | 64      | 0         | 21.68                | 22.50               |
| 518598                  | 528594      | QPSK       | 64      | 69        | 64      | 0         | 21.70                | 22.50               |
| 532998                  | 523002      | QPSK       | 64      | 0         | 64      | 69        | 21.67                | 22.50               |

**【CA\_n41C\_FCC\_Ant 2\_ECI 3】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | QPSK       | 108     | 137       | 144     | 0         | 21.17                | 22.50               |
| 518598                   | 537582      | QPSK       | 108     | 137       | 144     | 0         | 21.18                | 22.50               |
| 528996                   | 510012      | QPSK       | 108     | 0         | 144     | 129       | 21.17                | 22.50               |

**【CA\_n41B\_FCC\_Ant 0\_ECI 3】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | QPSK       | 64      | 69        | 64      | 0         | 21.50                | 22.40               |
| 518598                  | 528594      | QPSK       | 64      | 69        | 64      | 0         | 21.52                | 22.40               |
| 532998                  | 523002      | QPSK       | 64      | 0         | 64      | 69        | 21.50                | 22.40               |

**【CA\_n41C\_FCC\_Ant 0\_ECI 3】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | QPSK       | 108     | 137       | 144     | 0         | 21.00                | 22.40               |
| 518598                   | 537582      | QPSK       | 108     | 137       | 144     | 0         | 21.01                | 22.40               |
| 528996                   | 510012      | QPSK       | 108     | 0         | 144     | 129       | 20.98                | 22.40               |

**【CA\_n41B\_FCC\_Ant 1\_ECI 3】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 16.66                | 17.60               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 16.68                | 17.60               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 16.67                | 17.60               |

**【CA\_n41C\_FCC\_Ant 1\_ECI 3】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 16.58                | 17.60               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 16.63                | 17.60               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 16.59                | 17.60               |

**【CA\_n41B\_FCC\_Ant 5\_ECI 3】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 17.05                | 17.50               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 17.08                | 17.50               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 17.06                | 17.50               |

**【CA\_n41C\_FCC\_Ant 5\_ECI 3】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 17.02                | 17.50               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 17.06                | 17.50               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 17.05                | 17.50               |

**【CA\_n41B\_FCC\_Ant 2\_ECI 6】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 16.65                | 17.20               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 16.66                | 17.20               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 16.60                | 17.20               |

**【CA\_n41C\_FCC\_Ant 2\_ECI 6】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 16.68                | 17.20               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 16.70                | 17.20               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 16.69                | 17.20               |

**【CA\_n41B\_FCC\_Ant 0\_ECI 6】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 15.51                | 15.80               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 15.52                | 15.80               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 15.50                | 15.80               |

**【CA\_n41C\_FCC\_Ant 0\_ECI 6】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 15.50                | 15.80               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 15.52                | 15.80               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 15.52                | 15.80               |

**【CA\_n41B\_FCC\_Ant 1\_ECI 6】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 16.66                | 18.20               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 16.68                | 18.20               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 16.67                | 18.20               |

**【CA\_n41C\_FCC\_Ant 1\_ECI 6】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 16.58                | 18.20               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 16.63                | 18.20               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 16.59                | 18.20               |

**【CA\_n41B\_FCC\_Ant 5\_ECI 6】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 16.02                | 16.70               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 16.04                | 16.70               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 16.00                | 16.70               |

**【CA\_n41C\_FCC\_Ant 5\_ECI 6】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 64      | 69        | 64      | 0         | 16.02                | 16.70               |
| 518598                   | 537582      | BPSK       | 64      | 69        | 64      | 0         | 16.04                | 16.70               |
| 528996                   | 510012      | BPSK       | 64      | 0         | 64      | 69        | 16.00                | 16.70               |

**【CA\_n41B\_FCC\_Ant 2\_ECI 4】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 16.65                | 18.60               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 16.66                | 18.60               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 16.60                | 18.60               |

**【CA\_n41C\_FCC\_Ant 2\_ECI 4】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 16.68                | 18.60               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 16.70                | 18.60               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 16.69                | 18.60               |

**【CA\_n41B\_FCC\_Ant 0\_ECI 4】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 15.51                | 17.10               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 15.52                | 17.10               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 15.50                | 17.10               |

**【CA\_n41C\_FCC\_Ant 0\_ECI 4】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 15.50                | 17.10               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 15.52                | 17.10               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 15.52                | 17.10               |

**【CA\_n41B\_FCC\_Ant 1\_ECI 4】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 20.70                | 21.00               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 20.72                | 21.00               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 20.69                | 21.00               |

**【CA\_n41C\_FCC\_Ant 1\_ECI 4】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 20.66                | 21.00               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 20.69                | 21.00               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 20.68                | 21.00               |

**【CA\_n41B\_FCC\_Ant 5\_ECI 4】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 18.05                | 19.30               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 18.08                | 19.30               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 18.03                | 19.30               |

**【CA\_n41C\_FCC\_Ant 5\_ECI 4】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 18.08                | 19.30               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 18.09                | 19.30               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 18.03                | 19.30               |

**【CA\_n41B\_FCC\_Ant 2\_ECI 5】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 16.65                | 17.20               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 16.66                | 17.20               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 16.60                | 17.20               |

**【CA\_n41C\_FCC\_Ant 2\_ECI 5】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 16.68                | 17.20               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 16.70                | 17.20               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 16.69                | 17.20               |

**【CA\_n41B\_FCC\_Ant 0\_ECI 5】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 15.51                | 15.80               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 15.52                | 15.80               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 15.50                | 15.80               |

**【CA\_n41C\_FCC\_Ant 0\_ECI 5】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 15.50                | 15.80               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 15.52                | 15.80               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 15.52                | 15.80               |

**【CA\_n41B\_FCC\_Ant 1\_ECI 5】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 16.66                | 18.20               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 16.68                | 18.20               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 16.67                | 18.20               |

**【CA\_n41C\_FCC\_Ant 1\_ECI 5】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 16.58                | 18.20               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 16.63                | 18.20               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 16.59                | 18.20               |

**【CA\_n41B\_FCC\_Ant 5\_ECI 5】**

| Combination 50MHz+50MHz |             |            |         |           |         |           |                      |                     |
|-------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel             | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                         |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 504204                  | 514200      | BPSK       | 64      | 69        | 64      | 0         | 16.02                | 16.70               |
| 518598                  | 528594      | BPSK       | 64      | 69        | 64      | 0         | 16.04                | 16.70               |
| 532998                  | 523002      | BPSK       | 64      | 0         | 64      | 69        | 16.00                | 16.70               |

**【CA\_n41C\_FCC\_Ant 5\_ECI 5】**

| Combination 90MHz+100MHz |             |            |         |           |         |           |                      |                     |
|--------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel              | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                          |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 508200                   | 527184      | BPSK       | 108     | 137       | 144     | 0         | 16.00                | 16.70               |
| 518598                   | 537582      | BPSK       | 108     | 137       | 144     | 0         | 16.05                | 16.70               |
| 528996                   | 510012      | BPSK       | 108     | 0         | 144     | 129       | 16.02                | 16.70               |

**【CA\_n77C\_Ant 1\_ECI 2】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 14.68                | 15.60               |

**【CA\_n77C\_Ant 1\_ECI 2】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | BPSK       | 135     | 138       | 135     | 0         | 14.77                | 15.60               |
| 656000                    | 662664      | BPSK       | 135     | 138       | 135     | 0         | 14.79                | 15.60               |
| 662000                    | 655336      | BPSK       | 135     | 0         | 135     | 138       | 14.72                | 15.60               |

**【CA\_n77C\_Ant 1\_ECI 3】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 14.68                | 14.90               |

**【CA\_n77C\_Ant 1\_ECI 3】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | BPSK       | 135     | 138       | 135     | 0         | 14.77                | 14.90               |
| 656000                    | 662664      | BPSK       | 135     | 138       | 135     | 0         | 14.79                | 14.90               |
| 662000                    | 655336      | BPSK       | 135     | 0         | 135     | 138       | 14.72                | 14.90               |

**【CA\_n77C\_Ant 1\_ECI 6】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 13.63                | 14.30               |

**【CA\_n77C\_Ant 1\_ECI 6】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | BPSK       | 135     | 138       | 135     | 0         | 13.75                | 14.30               |
| 656000                    | 662664      | BPSK       | 135     | 138       | 135     | 0         | 13.76                | 14.30               |
| 662000                    | 655336      | BPSK       | 135     | 0         | 135     | 138       | 13.72                | 14.30               |

**【CA\_n77C\_Ant 1\_ECI 4】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 15.64                | 17.30               |

**【CA\_n77C\_Ant 1\_ECI 4】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | BPSK       | 135     | 138       | 135     | 0         | 15.75                | 17.30               |
| 656000                    | 662664      | BPSK       | 135     | 138       | 135     | 0         | 15.80                | 17.30               |
| 662000                    | 655336      | BPSK       | 135     | 0         | 135     | 138       | 15.76                | 17.30               |

**【CA\_n77C\_Ant 1\_ECI 5】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 13.63                | 14.30               |

**【CA\_n77C\_Ant 1\_ECI 5】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | BPSK       | 135     | 138       | 135     | 0         | 13.75                | 14.30               |
| 656000                    | 662664      | BPSK       | 135     | 138       | 135     | 0         | 13.76                | 14.30               |
| 662000                    | 655336      | BPSK       | 135     | 0         | 135     | 138       | 13.72                | 14.30               |

**【CA\_n77C\_Ant 5\_ECI 2】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 17.44                | 18.30               |

**【CA\_n77C\_Ant 5\_ECI 2】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | BPSK       | 135     | 138       | 135     | 0         | 17.54                | 18.30               |
| 656000                    | 662664      | BPSK       | 135     | 138       | 135     | 0         | 17.55                | 18.30               |
| 662000                    | 655336      | BPSK       | 135     | 0         | 135     | 138       | 17.52                | 18.30               |

**【CA\_n77C\_Ant 5\_ECI 3】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 17.44                | 17.60               |

**【CA\_n77C\_Ant 5\_ECI 3】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | BPSK       | 135     | 138       | 135     | 0         | 17.54                | 17.60               |
| 656000                    | 662664      | BPSK       | 135     | 138       | 135     | 0         | 17.55                | 17.60               |
| 662000                    | 655336      | BPSK       | 135     | 0         | 135     | 138       | 17.52                | 17.60               |

**【CA\_n77C\_Ant 5\_ECI 6】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 17.44                | 18.20               |

**【CA\_n77C\_Ant 5\_ECI 6】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | BPSK       | 135     | 138       | 135     | 0         | 17.54                | 18.20               |
| 656000                    | 662664      | BPSK       | 135     | 138       | 135     | 0         | 17.55                | 18.20               |
| 662000                    | 655336      | BPSK       | 135     | 0         | 135     | 138       | 17.52                | 18.20               |

**【CA\_n77C\_Ant 5\_ECI 4】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 17.44                | 18.90               |

**【CA\_n77C\_Ant 5\_ECI 4】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | BPSK       | 135     | 138       | 135     | 0         | 17.54                | 18.90               |
| 656000                    | 662664      | BPSK       | 135     | 138       | 135     | 0         | 17.55                | 18.90               |
| 662000                    | 655336      | BPSK       | 135     | 0         | 135     | 138       | 17.52                | 18.90               |

**【CA\_n77C\_Ant 5\_ECI 5】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 17.44                | 18.20               |

**【CA\_n77C\_Ant 5\_ECI 5】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | BPSK       | 135     | 138       | 135     | 0         | 17.54                | 18.20               |
| 656000                    | 662664      | BPSK       | 135     | 138       | 135     | 0         | 17.55                | 18.20               |
| 662000                    | 655336      | BPSK       | 135     | 0         | 135     | 138       | 17.52                | 18.20               |

**【CA\_n77C\_Ant 6\_ECI 2】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | QPSK       | 135     | 138       | 135     | 0         | 21.93                | 22.50               |

**【CA\_n77C\_Ant 6\_ECI 2】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | QPSK       | 135     | 138       | 135     | 0         | 21.92                | 22.50               |
| 656000                    | 662664      | QPSK       | 135     | 138       | 135     | 0         | 21.54                | 22.50               |
| 662000                    | 655336      | QPSK       | 135     | 0         | 135     | 138       | 21.58                | 22.50               |

**【CA\_n77C\_Ant 6\_ECI 3】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | QPSK       | 135     | 138       | 135     | 0         | 21.93                | 22.50               |

**【CA\_n77C\_Ant 6\_ECI 3】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | QPSK       | 135     | 138       | 135     | 0         | 21.92                | 22.50               |
| 656000                    | 662664      | QPSK       | 135     | 138       | 135     | 0         | 21.54                | 22.50               |
| 662000                    | 655336      | QPSK       | 135     | 0         | 135     | 138       | 21.58                | 22.50               |

**【CA\_n77C\_Ant 6\_ECI 6】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 13.81                | 14.00               |

**【CA\_n77C\_Ant 6\_ECI 6】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | QPSK       | 135     | 138       | 135     | 0         | 13.84                | 14.00               |
| 656000                    | 662664      | QPSK       | 135     | 138       | 135     | 0         | 13.50                | 14.00               |
| 662000                    | 655336      | QPSK       | 135     | 0         | 135     | 138       | 13.57                | 14.00               |

**【CA\_n77C\_Ant 6\_ECI 4】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 13.81                | 15.40               |

**【CA\_n77C\_Ant 6\_ECI 4】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | QPSK       | 135     | 138       | 135     | 0         | 13.84                | 15.40               |
| 656000                    | 662664      | QPSK       | 135     | 138       | 135     | 0         | 13.50                | 15.40               |
| 662000                    | 655336      | QPSK       | 135     | 0         | 135     | 138       | 13.57                | 15.40               |

**【CA\_n77C\_Ant 6\_ECI 5】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 13.81                | 14.00               |

**【CA\_n77C\_Ant 6\_ECI 5】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | QPSK       | 135     | 138       | 135     | 0         | 13.84                | 14.00               |
| 656000                    | 662664      | QPSK       | 135     | 138       | 135     | 0         | 13.50                | 14.00               |
| 662000                    | 655336      | QPSK       | 135     | 0         | 135     | 138       | 13.57                | 14.00               |

**【CA\_n77C\_Ant 7\_ECI 2】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | QPSK       | 135     | 138       | 135     | 0         | 21.69                | 22.00               |

**【CA\_n77C\_Ant 7\_ECI 2】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | QPSK       | 135     | 138       | 135     | 0         | 21.46                | 22.00               |
| 656000                    | 662664      | QPSK       | 135     | 138       | 135     | 0         | 21.26                | 22.00               |
| 662000                    | 655336      | QPSK       | 135     | 0         | 135     | 138       | 21.23                | 22.00               |

**【CA\_n77C\_Ant 7\_ECI 3】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | QPSK       | 135     | 138       | 135     | 0         | 21.69                | 22.00               |

**【CA\_n77C\_Ant 7\_ECI 3】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | QPSK       | 135     | 138       | 135     | 0         | 21.46                | 22.00               |
| 656000                    | 662664      | QPSK       | 135     | 138       | 135     | 0         | 21.26                | 22.00               |
| 662000                    | 655336      | QPSK       | 135     | 0         | 135     | 138       | 21.23                | 22.00               |

**【CA\_n77C\_Ant 7\_ECI 6】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 15.12                | 15.70               |

**【CA\_n77C\_Ant 7\_ECI 6】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | BPSK       | 135     | 138       | 135     | 0         | 14.91                | 15.70               |
| 656000                    | 662664      | BPSK       | 135     | 138       | 135     | 0         | 14.70                | 15.70               |
| 662000                    | 655336      | BPSK       | 135     | 0         | 135     | 138       | 14.71                | 15.70               |

**【CA\_n77C\_Ant 7\_ECI 4】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 17.23                | 18.20               |

**【CA\_n77C\_Ant 7\_ECI 4】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | QPSK       | 135     | 138       | 135     | 0         | 16.99                | 18.20               |
| 656000                    | 662664      | QPSK       | 135     | 138       | 135     | 0         | 16.78                | 18.20               |
| 662000                    | 655336      | QPSK       | 135     | 0         | 135     | 138       | 16.77                | 18.20               |

**【CA\_n77C\_Ant 7\_ECI 5】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 633332                    | 639996      | BPSK       | 135     | 138       | 135     | 0         | 15.12                | 15.70               |

**【CA\_n77C\_Ant 7\_ECI 5】**

| Combination 100MHz+100MHz |             |            |         |           |         |           |                      |                     |
|---------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| PCC Channel               | SCC Channel | Modulation | PCC     |           | SCC     |           | Measured Power (dBm) | Tune up Power (dBm) |
|                           |             |            | RB Size | RB Offset | RB Size | RB Offset |                      |                     |
| 650000                    | 656664      | BPSK       | 135     | 138       | 135     | 0         | 14.91                | 15.70               |
| 656000                    | 662664      | BPSK       | 135     | 138       | 135     | 0         | 14.70                | 15.70               |
| 662000                    | 655336      | BPSK       | 135     | 0         | 135     | 138       | 14.71                | 15.70               |