



# RF Exposure Report

## (Part 0: SAR Characterization Evaluation)

FCC ID : 2AFZZPN8EG  
Equipment : Mobile Phone  
Brand Name : Xiaomi  
Model Name : 2407FPN8EG  
Applicant : Xiaomi Communications Co., Ltd.  
#019, 9th Floor, Building 6, 33 Xi'erqi Middle  
Road, Haidian District, Beijing, China, 100085  
Standard : FCC 47 CFR Part 2 (2.1093)

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., 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

| Report No. | Version | Description             | Issued Date  |
|------------|---------|-------------------------|--------------|
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## 1. Introduction

The FCC RF exposure limit is based on time-averaged RF exposure. SAR regulatory specifications are defined over certain measurement duration allowing for time-averaging. The MediaTek TA-SAR (Time Average SAR) 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.

This report shows SAR characterization of sub6GHz. The characterization is achieved by determination of Plimit. In the case of sub6GHz, power is measured by antenna connection port power. Plimit is the power level that corresponds to the exposure design target. Design target is defined as SAR\_design target for sub6GHz.

The compliance test under static transmission and simultaneous transmission are performed and summarized in Part 1 report. The validation of TAS algorithm under the dynamic transmission scenarios are conducted are reported in Part 2. Terminologies for this report are listed up in the table below.

|                      |   |
|----------------------|---|
| Pmax                 | Maximum target power level  |
| SAR_FCC_limit        | SAR limit specified by FCC 1.6 W/kg averaged over 1-gram, for head and body exposure, and 4 W/kg averaged over 10-gram, for extremity exposure    |
| SAR_target           | The design target for SAR compliance. It should be less than regulatory power density limit to account for all device design related uncertainty. |
| Plimit               | The time-averaged RF power that corresponds to SAR_target.  |
| SAR characterization | Characterization of SAR value for all sub6GHz technologies  |



## 2. SAR Characterization

SAR characterization must be performed to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for TA-SAR feature to control and manage RF exposure for  $f < 6$  GHz.

### 2.1 SAR design target and uncertainty

Accounting for total uncertainty, SAR\_design\_target should meet the following condition:

$$SAR_{design\_target} < SAR_{regulatory\_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

| SAR Design Target          |         |           |              |                |                |             |
|----------------------------|---------|-----------|--------------|----------------|----------------|-------------|
| Band                       | Antenna | Head ECI1 | Hotspot ECI5 | Body-worn ECI4 | Extremity ECI3 | Uncertainty |
| GSM850                     | Ant 1   | 0.72      | 0.33         | 0.78           | 1.84           | 1.50        |
| GSM850                     | Ant 0   | 0.87      | 0.87         | 0.87           | 2.07           | 1.00        |
| GSM1900                    | Ant 5   | 0.78      | 0.78         | 0.78           | 1.84           | 1.50        |
| GSM1900                    | Ant 2   | 0.73      | 0.20         | 0.87           | 2.07           | 1.00        |
| WCDMA II                   | Ant 5   | 0.78      | 0.63         | 0.78           | 1.84           | 1.50        |
| WCDMA II                   | Ant 2   | 0.72      | 0.26         | 0.87           | 2.07           | 1.00        |
| WCDMA IV                   | Ant 5   | 0.78      | 0.71         | 0.78           | 1.84           | 1.50        |
| WCDMA IV                   | Ant 2   | 0.85      | 0.40         | 0.87           | 2.07           | 1.00        |
| WCDMA V                    | Ant 1   | 1.02      | 0.24         | 0.78           | 1.84           | 1.50        |
| WCDMA V                    | Ant 0   | 0.87      | 0.87         | 0.87           | 2.07           | 1.00        |
| LTE Band 4                 | Ant 3   | 0.66      | 0.21         | 0.78           | 1.84           | 1.50        |
| LTE Band 4_Other PA        | Ant 3   | 0.65      | 0.21         | 0.78           | 1.84           | 1.50        |
| LTE Band 4                 | Ant 2   | 0.74      | 0.45         | 0.60           | 2.21           | 0.70        |
| LTE Band 4_Other PA        | Ant 2   | 0.69      | 0.35         | 0.64           | 1.84           | 1.50        |
| LTE Band 4                 | Ant 5   | 0.78      | 0.75         | 0.78           | 1.84           | 1.50        |
| LTE Band 4_Other PA        | Ant 5   | 0.87      | 0.73         | 0.87           | 2.07           | 1.00        |
| LTE Band 5                 | Ant 1   | 0.68      | 0.34         | 0.78           | 1.84           | 1.50        |
| LTE Band 5_Other PA        | Ant 1   | 0.61      | 0.33         | 0.78           | 1.84           | 1.50        |
| LTE Band 5_Code 6          | Ant 0   | 0.94      | 0.30         | 0.94           | 2.21           | 0.70        |
| LTE Band 5_Other PA_Code 6 | Ant 0   | 0.87      | 0.25         | 0.87           | 2.07           | 1.00        |
| LTE Band 5_Code 1          | Ant 0   | 0.94      | 0.49         | 0.94           | 2.21           | 0.70        |
| LTE Band 5_Other PA_Code 1 | Ant 0   | 0.87      | 0.39         | 0.87           | 2.07           | 1.00        |
| LTE Band 5_Code 3          | Ant 0   | 0.94      | 0.46         | 0.94           | 2.21           | 0.70        |
| LTE Band 5_Other PA_Code 3 | Ant 0   | 0.87      | 0.38         | 0.87           | 2.07           | 1.00        |
| LTE Band 5_Code 4          | Ant 0   | 0.94      | 0.37         | 0.94           | 2.21           | 0.70        |
| LTE Band 5_Other PA_Code 4 | Ant 0   | 0.87      | 0.11         | 0.87           | 2.07           | 1.00        |
| LTE Band 7                 | Ant 3   | 0.66      | 0.17         | 0.78           | 1.84           | 1.50        |
| LTE Band 7                 | Ant 2   | 0.80      | 0.29         | 0.51           | 2.21           | 0.70        |
| LTE Band 7                 | Ant 5   | 0.78      | 0.51         | 0.78           | 1.84           | 1.50        |
| LTE Band 7                 | Ant 4   | 0.69      | 0.26         | 0.78           | 1.84           | 1.50        |
| LTE Band 12(17)_Other PA   | Ant 1   | 0.74      | 0.46         | 0.78           | 1.84           | 1.50        |
| LTE Band 12(17)_Other PA   | Ant 0   | 0.87      | 0.87         | 0.87           | 2.07           | 1.00        |
| LTE Band 25                | Ant 3   | 0.59      | 0.20         | 0.78           | 1.84           | 1.50        |
| LTE Band 25                | Ant 2   | 0.78      | 0.40         | 0.44           | 2.07           | 1.00        |
| LTE Band 25                | Ant 5   | 0.78      | 0.71         | 0.78           | 1.84           | 1.50        |
| LTE Band 25                | Ant 4   | 0.71      | 0.26         | 0.78           | 1.84           | 1.50        |
| LTE Band 26                | Ant 1   | 0.59      | 0.30         | 0.78           | 1.84           | 1.50        |
| LTE Band 26                | Ant 0   | 0.94      | 0.94         | 0.94           | 2.21           | 0.70        |
| LTE Band 66                | Ant 3   | 0.62      | 0.18         | 0.78           | 1.84           | 1.50        |
| LTE Band 66_Other PA       | Ant 3   | 0.65      | 0.17         | 0.78           | 1.84           | 1.50        |



|                      |       |      |      |      |      |      |
|----------------------|-------|------|------|------|------|------|
| LTE Band 66          | Ant 2 | 0.67 | 0.33 | 0.87 | 2.07 | 1.00 |
| LTE Band 66_Other PA | Ant 2 | 0.79 | 0.34 | 0.78 | 1.84 | 1.50 |
| LTE Band 66          | Ant 5 | 0.78 | 0.50 | 0.78 | 1.84 | 1.50 |
| LTE Band 66_Other PA | Ant 5 | 0.87 | 0.50 | 0.87 | 2.07 | 1.00 |
| LTE Band 66          | Ant 4 | 0.78 | 0.13 | 0.78 | 1.84 | 1.50 |
| LTE Band 66_Other PA | Ant 4 | 0.77 | 0.09 | 0.78 | 1.84 | 1.50 |
| LTE Band 38          | Ant 3 | 0.77 | 0.14 | 0.78 | 1.84 | 1.50 |
| LTE Band 38          | Ant 2 | 0.67 | 0.22 | 0.29 | 2.21 | 0.70 |
| LTE Band 38          | Ant 5 | 0.78 | 0.50 | 0.78 | 1.84 | 1.50 |
| LTE Band 38          | Ant 4 | 0.74 | 0.32 | 0.78 | 1.84 | 1.50 |
| LTE Band 41          | Ant 3 | 0.77 | 0.22 | 0.78 | 1.84 | 1.50 |
| LTE Band 41          | Ant 2 | 0.71 | 0.21 | 0.28 | 2.21 | 0.70 |
| LTE Band 41          | Ant 5 | 0.78 | 0.51 | 0.78 | 1.84 | 1.50 |
| LTE Band 41          | Ant 4 | 0.71 | 0.34 | 0.78 | 1.84 | 1.50 |
| LTE Band 42          | Ant 6 | 0.81 | 0.16 | 0.94 | 2.21 | 0.70 |
| LTE Band 42          | Ant 8 | 0.78 | 0.51 | 0.78 | 1.84 | 1.50 |
| LTE Band 42          | Ant 7 | 0.56 | 0.21 | 0.16 | 1.84 | 1.50 |
| LTE Band 42          | Ant 9 | 0.74 | 0.18 | 0.78 | 1.84 | 1.50 |
| LTE Band 48          | Ant 6 | 0.59 | 0.16 | 0.94 | 2.21 | 0.70 |
| LTE Band 48          | Ant 8 | 0.78 | 0.46 | 0.78 | 1.84 | 1.50 |
| LTE Band 48          | Ant 7 | 0.43 | 0.18 | 0.12 | 1.84 | 1.50 |
| LTE Band 48          | Ant 9 | 0.78 | 0.23 | 0.78 | 1.84 | 1.50 |
| FR1 n5               | Ant 1 | 0.60 | 0.38 | 0.78 | 1.84 | 1.50 |
| FR1 n5_Other PA      | Ant 1 | 0.61 | 0.35 | 0.78 | 1.84 | 1.50 |
| FR1 n5               | Ant 0 | 0.94 | 0.43 | 0.94 | 2.21 | 0.70 |
| FR1 n5_Other PA      | Ant 0 | 0.87 | 0.39 | 0.87 | 2.07 | 1.00 |
| FR1 n26              | Ant 1 | 0.60 | 0.38 | 0.78 | 1.84 | 1.50 |
| FR1 n26              | Ant 0 | 0.94 | 0.43 | 0.94 | 2.21 | 0.70 |
| FR1 n12              | Ant 1 | 0.63 | 0.50 | 0.78 | 1.84 | 1.50 |
| FR1 n12              | Ant 0 | 0.87 | 0.87 | 0.87 | 2.07 | 1.00 |
| FR1 n25              | Ant 3 | 0.67 | 0.24 | 0.78 | 1.84 | 1.50 |
| FR1 n25              | Ant 2 | 0.70 | 0.33 | 0.87 | 2.07 | 1.00 |
| FR1 n25              | Ant 5 | 0.78 | 0.73 | 0.78 | 1.84 | 1.50 |
| FR1 n25              | Ant 4 | 0.70 | 0.31 | 0.78 | 1.84 | 1.50 |
| FR1 n66              | Ant 3 | 0.59 | 0.24 | 0.78 | 1.84 | 1.50 |
| FR1 n66_Other PA     | Ant 3 | 0.62 | 0.25 | 0.78 | 1.84 | 1.50 |
| FR1 n66              | Ant 2 | 0.56 | 0.55 | 0.27 | 2.07 | 1.00 |
| FR1 n66_Other PA     | Ant 2 | 0.63 | 0.36 | 0.27 | 2.07 | 1.00 |
| FR1 n66              | Ant 5 | 0.78 | 0.66 | 0.78 | 1.84 | 1.50 |
| FR1 n66_Other PA     | Ant 5 | 0.87 | 0.69 | 0.87 | 2.07 | 1.00 |
| FR1 n66              | Ant 4 | 0.78 | 0.12 | 0.78 | 1.84 | 1.50 |
| FR1 n66_Other PA     | Ant 4 | 0.78 | 0.10 | 0.78 | 1.84 | 1.50 |
| FR1 n7               | Ant 3 | 0.56 | 0.14 | 0.78 | 1.84 | 1.50 |
| FR1 n7               | Ant 2 | 0.80 | 0.38 | 0.22 | 2.21 | 0.70 |
| FR1 n7               | Ant 5 | 0.78 | 0.51 | 0.78 | 1.84 | 1.50 |
| FR1 n7               | Ant 4 | 0.73 | 0.32 | 0.78 | 1.84 | 1.50 |
| FR1 n38              | Ant 3 | 0.57 | 0.18 | 0.78 | 1.84 | 1.50 |
| FR1 n38              | Ant 2 | 0.85 | 0.28 | 0.26 | 2.21 | 0.70 |
| FR1 n38              | Ant 5 | 0.78 | 0.48 | 0.78 | 1.84 | 1.50 |
| FR1 n38              | Ant 4 | 0.77 | 0.33 | 0.78 | 1.84 | 1.50 |
| FR1 n41_PC3          | Ant 3 | 0.54 | 0.15 | 0.78 | 1.84 | 1.50 |
| FR1 n41_PC2          | Ant 3 | 0.63 | 0.16 | 0.78 | 1.84 | 1.50 |
| FR1 n41_PC3          | Ant 2 | 0.63 | 0.19 | 0.19 | 2.07 | 1.00 |
| FR1 n41_PC2          | Ant 2 | 0.65 | 0.23 | 0.18 | 2.07 | 1.00 |
| FR1 n41_PC3          | Ant 5 | 0.78 | 0.43 | 0.78 | 1.84 | 1.50 |
| FR1 n41_PC2          | Ant 5 | 0.78 | 0.50 | 0.78 | 1.84 | 1.50 |



|             |       |      |      |      |      |      |
|-------------|-------|------|------|------|------|------|
| FR1 n41_PC3 | Ant 4 | 0.39 | 0.17 | 0.78 | 1.84 | 1.50 |
| FR1 n41_PC2 | Ant 4 | 0.38 | 0.20 | 0.78 | 1.84 | 1.50 |
| FR1 n48     | Ant 6 | 0.46 | 0.12 | 0.94 | 2.21 | 0.70 |
| FR1 n48     | Ant 8 | 0.78 | 0.45 | 0.78 | 1.84 | 1.50 |
| FR1 n48     | Ant 7 | 0.44 | 0.19 | 0.08 | 1.84 | 1.50 |
| FR1 n48     | Ant 9 | 0.51 | 0.24 | 0.78 | 1.84 | 1.50 |
| FR1 n77_PC3 | Ant 6 | 0.69 | 0.19 | 0.87 | 2.07 | 1.00 |
| FR1 n77_PC2 | Ant 6 | 0.78 | 0.23 | 0.87 | 2.07 | 1.00 |
| FR1 n77_PC3 | Ant 8 | 0.78 | 0.40 | 0.78 | 1.84 | 1.50 |
| FR1 n77_PC2 | Ant 8 | 0.78 | 0.50 | 0.78 | 1.84 | 1.50 |
| FR1 n77_PC3 | Ant 7 | 0.40 | 0.17 | 0.09 | 1.84 | 1.50 |
| FR1 n77_PC2 | Ant 7 | 0.41 | 0.20 | 0.18 | 1.84 | 1.50 |
| FR1 n77_PC3 | Ant 9 | 0.36 | 0.17 | 0.18 | 1.84 | 1.50 |
| FR1 n77_PC2 | Ant 9 | 0.37 | 0.22 | 0.20 | 1.84 | 1.50 |
| FR1 n78_PC3 | Ant 6 | 0.65 | 0.18 | 0.87 | 2.07 | 1.00 |
| FR1 n78_PC2 | Ant 6 | 0.63 | 0.21 | 0.87 | 2.07 | 1.00 |
| FR1 n78_PC3 | Ant 8 | 0.78 | 0.39 | 0.78 | 1.84 | 1.50 |
| FR1 n78_PC2 | Ant 8 | 0.78 | 0.45 | 0.78 | 1.84 | 1.50 |
| FR1 n78_PC3 | Ant 7 | 0.53 | 0.22 | 0.10 | 1.84 | 1.50 |
| FR1 n78_PC2 | Ant 7 | 0.54 | 0.27 | 0.12 | 1.84 | 1.50 |
| FR1 n78_PC3 | Ant 9 | 0.30 | 0.21 | 0.78 | 1.84 | 1.50 |
| FR1 n78_PC2 | Ant 9 | 0.30 | 0.23 | 0.78 | 1.84 | 1.50 |

**Trigger condition**

| Exposure conditions | Trigger Conditions        | ECI |
|---------------------|---------------------------|-----|
| Head                | Receiver                  | 1   |
| Hotspot             | Hotspot SW                | 5   |
| Body-worn           | Proximity Sensor detected | 4   |
| Extremity           | Proximity Sensor detected | 3   |



## 2.2 SAR Characterization – Power Table

\*Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + device uncertainty.

\*\*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).

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 (P<sub>limit</sub> corresponding to SAR design target)>

| Band                       | Antenna | Duty Cycle % | P <sub>limit</sub> |              |                |                | Pmax* |
|----------------------------|---------|--------------|--------------------|--------------|----------------|----------------|-------|
|                            |         |              | Head ECI1          | Hotspot ECI5 | Body-worn ECI4 | Extremity ECI3 |       |
| GSM850**                   | Ant 1   | 50           | 19.0               | 19.0         | 25.4           | 23.0           | 23.0  |
| GSM850**                   | Ant 0   | 50           | 28.9               | 27.1         | 30.2           | 24.0           | 24.0  |
| GSM1900**                  | Ant 5   | 50           | 30.8               | 21.2         | 26.4           | 19.5           | 19.5  |
| GSM1900**                  | Ant 2   | 50           | 18.0               | 18.0         | 26.9           | 21.0           | 21.0  |
| WCDMA II                   | Ant 5   | 100          | 31.6               | 20.5         | 27.2           | 20.5           | 23.5  |
| WCDMA II                   | Ant 2   | 100          | 17.5               | 17.5         | 26.5           | 24.0           | 24.0  |
| WCDMA IV                   | Ant 5   | 100          | 30.6               | 21.7         | 27.3           | 22.7           | 23.7  |
| WCDMA IV                   | Ant 2   | 100          | 17.5               | 17.5         | 26.4           | 24.0           | 24.0  |
| WCDMA V                    | Ant 1   | 100          | 18.5               | 18.5         | 25.8           | 22.5           | 23.5  |
| WCDMA V                    | Ant 0   | 100          | 29.6               | 26.7         | 29.6           | 24.0           | 24.0  |
| LTE Band 4                 | Ant 3   | 100          | 16.2               | 16.2         | 26.9           | 20.2           | 24.2  |
| LTE Band 4_Other PA        | Ant 3   | 100          | 16.2               | 16.2         | 27.4           | 20.2           | 24.2  |
| LTE Band 4                 | Ant 2   | 100          | 18.0               | 18.0         | 23.0           | 23.0           | 25.0  |
| LTE Band 4_Other PA        | Ant 2   | 100          | 16.0               | 16.0         | 21.0           | 21.0           | 23.0  |
| LTE Band 4                 | Ant 5   | 100          | 30.4               | 22.2         | 26.9           | 22.7           | 24.2  |
| LTE Band 4_Other PA        | Ant 5   | 100          | 31.6               | 22.5         | 27.9           | 23.0           | 24.5  |
| LTE Band 5                 | Ant 1   | 100          | 18.7               | 18.7         | 29.6           | 22.2           | 24.2  |
| LTE Band 5_Other PA        | Ant 1   | 100          | 18.5               | 18.5         | 29.6           | 22.0           | 24.0  |
| LTE Band 5_Code 6          | Ant 0   | 100          | 32.2               | 24.0         | 31.4           | 24.0           | 25.0  |
| LTE Band 5_Other PA_Code 6 | Ant 0   | 100          | 33.0               | 23.5         | 31.6           | 23.5           | 24.5  |
| LTE Band 5_Code 1          | Ant 0   | 100          | 30.8               | 24.0         | 30.0           | 24.0           | 25.0  |
| LTE Band 5_Other PA_Code 1 | Ant 0   | 100          | 28.9               | 23.5         | 29.9           | 23.5           | 24.5  |
| LTE Band 5_Code 3          | Ant 0   | 100          | 30.0               | 24.0         | 29.6           | 24.0           | 25.0  |
| LTE Band 5_Other PA_Code 3 | Ant 0   | 100          | 30.1               | 23.5         | 30.1           | 23.5           | 24.5  |
| LTE Band 5_Code 4          | Ant 0   | 100          | 31.0               | 24.0         | 30.0           | 24.0           | 25.0  |
| LTE Band 5_Other PA_Code 4 | Ant 0   | 100          | 30.6               | 23.5         | 34.2           | 23.5           | 24.5  |
| LTE Band 7                 | Ant 3   | 100          | 15.7               | 15.7         | 26.5           | 19.7           | 24.2  |
| LTE Band 7                 | Ant 2   | 100          | 16.0               | 16.0         | 19.5           | 19.5           | 25.0  |
| LTE Band 7                 | Ant 5   | 100          | 29.5               | 19.2         | 26.8           | 19.2           | 24.2  |
| LTE Band 7                 | Ant 4   | 100          | 16.0               | 16.0         | 27.4           | 19.5           | 22.5  |
| LTE Band 12(17)_Other PA   | Ant 1   | 100          | 21.0               | 21.0         | 27.8           | 23.5           | 23.5  |
| LTE Band 12(17)_Other PA   | Ant 0   | 100          | 29.8               | 28.3         | 29.5           | 24.0           | 24.0  |
| LTE Band 25                | Ant 3   | 100          | 16.5               | 16.5         | 28.6           | 19.5           | 23.5  |
| LTE Band 25                | Ant 2   | 100          | 18.5               | 18.5         | 22.5           | 22.5           | 24.0  |
| LTE Band 25                | Ant 5   | 100          | 30.3               | 20.5         | 27.4           | 20.5           | 23.5  |
| LTE Band 25                | Ant 4   | 100          | 17.0               | 17.0         | 28.2           | 22.0           | 22.0  |
| LTE Band 26                | Ant 1   | 100          | 18.7               | 18.7         | 26.2           | 24.2           | 24.2  |
| LTE Band 26                | Ant 0   | 100          | 29.3               | 26.7         | 29.9           | 25.0           | 25.0  |
| LTE Band 66                | Ant 3   | 100          | 15.5               | 15.5         | 27.4           | 19.5           | 23.5  |
| LTE Band 66_Other PA       | Ant 3   | 100          | 16.0               | 16.0         | 27.9           | 20.0           | 24.0  |
| LTE Band 66                | Ant 2   | 100          | 16.5               | 16.5         | 25.9           | 24.0           | 24.0  |
| LTE Band 66_Other PA       | Ant 2   | 100          | 15.0               | 15.0         | 23.9           | 22.5           | 22.5  |
| LTE Band 66                | Ant 5   | 100          | 30.5               | 21.0         | 26.9           | 22.0           | 23.5  |
| LTE Band 66_Other PA       | Ant 5   | 100          | 31.1               | 21.5         | 27.8           | 22.5           | 24.0  |
| LTE Band 66                | Ant 4   | 100          | 21.5               | 21.5         | 32.7           | 21.5           | 22.0  |
| LTE Band 66_Other PA       | Ant 4   | 100          | 22.5               | 22.5         | 35.1           | 22.5           | 23.0  |





|                  |       |      |      |      |      |      |      |
|------------------|-------|------|------|------|------|------|------|
| LTE Band 38**    | Ant 3 | 63.3 | 16.5 | 16.5 | 26.4 | 20.5 | 22.2 |
| LTE Band 38**    | Ant 2 | 63.3 | 15.8 | 15.8 | 20.8 | 20.8 | 23.0 |
| LTE Band 38**    | Ant 5 | 63.3 | 30.4 | 19.5 | 26.7 | 19.5 | 22.2 |
| LTE Band 38**    | Ant 4 | 63.3 | 16.8 | 16.8 | 27.2 | 20.3 | 20.5 |
| LTE Band 41**    | Ant 3 | 63.3 | 16.5 | 16.5 | 26.5 | 20.5 | 22.2 |
| LTE Band 41**    | Ant 2 | 63.3 | 15.8 | 15.8 | 19.8 | 19.8 | 23.0 |
| LTE Band 41**    | Ant 5 | 63.3 | 30.7 | 19.5 | 27.0 | 19.5 | 22.2 |
| LTE Band 41**    | Ant 4 | 63.3 | 16.8 | 16.8 | 27.4 | 20.3 | 20.5 |
| LTE Band 42**    | Ant 6 | 63.3 | 14.8 | 14.8 | 28.4 | 17.8 | 23.0 |
| LTE Band 42**    | Ant 8 | 63.3 | 24.2 | 18.8 | 25.3 | 18.8 | 21.0 |
| LTE Band 42**    | Ant 7 | 63.3 | 13.8 | 13.8 | 16.3 | 16.3 | 22.0 |
| LTE Band 42**    | Ant 9 | 63.3 | 19.8 | 19.8 | 26.4 | 20.5 | 20.5 |
| LTE Band 48**    | Ant 6 | 63.3 | 14.3 | 14.3 | 28.9 | 17.3 | 21.0 |
| LTE Band 48**    | Ant 8 | 63.3 | 24.0 | 17.8 | 25.0 | 17.8 | 19.0 |
| LTE Band 48**    | Ant 7 | 63.3 | 12.8 | 12.8 | 16.8 | 16.8 | 20.0 |
| LTE Band 48**    | Ant 9 | 63.3 | 20.5 | 17.3 | 27.1 | 17.3 | 18.5 |
| FR1 n5           | Ant 1 | 100  | 19.5 | 19.5 | 25.8 | 21.5 | 24.0 |
| FR1 n5_Other PA  | Ant 1 | 100  | 19.5 | 19.5 | 25.5 | 21.5 | 24.0 |
| FR1 n5           | Ant 0 | 100  | 30.7 | 24.0 | 29.9 | 24.0 | 25.0 |
| FR1 n5_Other PA  | Ant 0 | 100  | 30.2 | 23.5 | 29.4 | 23.5 | 24.5 |
| FR1 n26          | Ant 1 | 100  | 19.5 | 19.5 | 25.8 | 21.5 | 24.0 |
| FR1 n26          | Ant 0 | 100  | 30.7 | 24.0 | 29.9 | 24.0 | 25.0 |
| FR1 n12          | Ant 1 | 100  | 21.5 | 21.5 | 27.4 | 23.0 | 23.0 |
| FR1 n12          | Ant 0 | 100  | 29.7 | 28.0 | 29.7 | 24.0 | 24.0 |
| FR1 n25          | Ant 3 | 100  | 17.5 | 17.5 | 28.9 | 19.5 | 23.5 |
| FR1 n25          | Ant 2 | 100  | 18.5 | 18.5 | 27.0 | 24.0 | 24.0 |
| FR1 n25          | Ant 5 | 100  | 29.9 | 21.5 | 26.9 | 21.5 | 23.5 |
| FR1 n25          | Ant 4 | 100  | 17.5 | 17.5 | 27.9 | 22.0 | 22.0 |
| FR1 n66          | Ant 3 | 100  | 16.5 | 16.5 | 27.5 | 19.5 | 23.5 |
| FR1 n66_Other PA | Ant 3 | 100  | 17.0 | 17.0 | 27.7 | 20.0 | 24.0 |
| FR1 n66          | Ant 2 | 100  | 19.0 | 19.0 | 21.0 | 21.0 | 24.0 |
| FR1 n66_Other PA | Ant 2 | 100  | 17.5 | 17.5 | 19.5 | 19.5 | 22.5 |
| FR1 n66          | Ant 5 | 100  | 29.4 | 22.0 | 27.0 | 22.5 | 23.5 |
| FR1 n66_Other PA | Ant 5 | 100  | 30.5 | 22.5 | 27.8 | 23.0 | 24.0 |
| FR1 n66          | Ant 4 | 100  | 23.6 | 21.5 | 32.7 | 21.5 | 22.0 |
| FR1 n66_Other PA | Ant 4 | 100  | 24.2 | 22.5 | 35.2 | 22.5 | 23.0 |
| FR1 n7           | Ant 3 | 100  | 15.7 | 15.7 | 26.9 | 19.7 | 24.2 |
| FR1 n7           | Ant 2 | 100  | 16.5 | 16.5 | 19.5 | 19.5 | 25.0 |
| FR1 n7           | Ant 5 | 100  | 27.9 | 19.2 | 27.0 | 19.2 | 24.2 |
| FR1 n7           | Ant 4 | 100  | 17.0 | 17.0 | 27.1 | 19.5 | 23.0 |
| FR1 n38          | Ant 3 | 100  | 16.2 | 16.2 | 26.2 | 20.7 | 24.2 |
| FR1 n38          | Ant 2 | 100  | 16.0 | 16.0 | 21.0 | 21.0 | 25.0 |
| FR1 n38          | Ant 5 | 100  | 28.1 | 19.7 | 26.6 | 19.7 | 24.2 |
| FR1 n38          | Ant 4 | 100  | 17.0 | 17.0 | 26.7 | 19.5 | 22.5 |
| FR1 n41_PC3      | Ant 3 | 100  | 15.5 | 15.5 | 26.5 | 19.5 | 23.0 |
| FR1 n41_PC2**    | Ant 3 | 50   | 15.5 | 15.5 | 26.4 | 19.5 | 23.0 |
| FR1 n41_PC3      | Ant 2 | 100  | 15.5 | 15.5 | 19.0 | 19.0 | 23.5 |
| FR1 n41_PC2**    | Ant 2 | 50   | 15.5 | 15.5 | 19.0 | 19.0 | 23.5 |
| FR1 n41_PC3      | Ant 5 | 100  | 28.1 | 18.5 | 25.8 | 18.5 | 22.5 |
| FR1 n41_PC2**    | Ant 5 | 50   | 27.7 | 18.5 | 25.9 | 18.5 | 22.5 |
| FR1 n41_PC3      | Ant 4 | 100  | 14.5 | 14.5 | 26.9 | 18.5 | 21.0 |
| FR1 n41_PC2**    | Ant 4 | 50   | 14.5 | 14.5 | 26.6 | 18.5 | 21.0 |
| FR1 n48          | Ant 6 | 100  | 13.3 | 13.3 | 28.6 | 16.8 | 23.3 |
| FR1 n48          | Ant 8 | 100  | 24.1 | 19.5 | 26.3 | 21.0 | 21.0 |
| FR1 n48          | Ant 7 | 100  | 13.0 | 13.0 | 15.5 | 15.5 | 22.0 |
| FR1 n48          | Ant 9 | 100  | 19.5 | 18.5 | 26.8 | 18.5 | 20.5 |



|               |       |     |      |      |      |      |      |
|---------------|-------|-----|------|------|------|------|------|
| FR1 n77_PC3   | Ant 6 | 100 | 14.5 | 14.5 | 27.3 | 15.5 | 22.5 |
| FR1 n77_PC2** | Ant 6 | 50  | 14.5 | 14.5 | 26.4 | 15.5 | 22.5 |
| FR1 n77_PC3   | Ant 8 | 100 | 23.5 | 18.0 | 24.7 | 18.0 | 21.0 |
| FR1 n77_PC2** | Ant 8 | 50  | 23.8 | 18.0 | 23.9 | 18.0 | 21.0 |
| FR1 n77_PC3   | Ant 7 | 100 | 13.0 | 13.0 | 15.5 | 15.5 | 21.5 |
| FR1 n77_PC2** | Ant 7 | 50  | 13.0 | 13.0 | 15.5 | 15.5 | 21.5 |
| FR1 n77_PC3   | Ant 9 | 100 | 17.0 | 15.0 | 19.5 | 15.5 | 20.5 |
| FR1 n77_PC2** | Ant 9 | 50  | 17.0 | 15.0 | 19.5 | 15.5 | 20.5 |
| FR1 n78_PC3   | Ant 6 | 100 | 14.5 | 14.5 | 27.7 | 16.5 | 23.5 |
| FR1 n78_PC2** | Ant 6 | 50  | 14.5 | 14.5 | 27.1 | 16.5 | 23.5 |
| FR1 n78_PC3   | Ant 8 | 100 | 23.5 | 18.0 | 24.6 | 18.0 | 22.0 |
| FR1 n78_PC2** | Ant 8 | 50  | 23.3 | 18.0 | 23.8 | 18.0 | 22.0 |
| FR1 n78_PC3   | Ant 7 | 100 | 14.0 | 14.0 | 16.0 | 16.0 | 23.0 |
| FR1 n78_PC2** | Ant 7 | 50  | 14.0 | 14.0 | 16.0 | 16.0 | 23.0 |
| FR1 n78_PC3   | Ant 9 | 100 | 17.0 | 17.0 | 25.9 | 19.0 | 21.5 |
| FR1 n78_PC2** | Ant 9 | 50  | 17.0 | 17.0 | 25.2 | 19.0 | 21.5 |