



**TAS Part 1: Test Under Static Transmission Scenario**

*For*  
**SMARTPHONE**

**FCC ID: BCG-E8949A**  
**Model Name: A3256**

**Report Number: 15496224-S6V1**  
**Issue Date: 7/17/2025**

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**Revision History**

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| V1   | 7/17/2025 | Initial Issue | --         |
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|      |           |               |            |

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## 1. Attestation of Test Results

|                                               |                                            |
|-----------------------------------------------|--------------------------------------------|
| Applicant Name                                | APPLE INC.                                 |
| FCC ID                                        | BCG-E8949A                                 |
| Model Name                                    | A3256                                      |
| Reference SAR Report                          | 15496224-S1                                |
| Exposure Category                             | PD Limit (W/m <sup>2</sup> )               |
| General Population<br>(Uncontrolled Exposure) | 10                                         |
| RF Exposure Conditions                        | Highest Reported PD<br>(W/m <sup>2</sup> ) |
|                                               | 3.980                                      |
| Date Tested                                   | 6/10/2025 to 6/21/2025                     |

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the U.S. Government, or any agency of the U.S. government.

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Approved & Released By:                                                             | Prepared By:                                                                         |
|  |  |
| Michael Heckrotte<br>Principal Engineer<br>UL Verification Services Inc.            | Nathan Sousa<br>Senior Engineering Associate<br>UL Verification Services Inc.        |

## 2. Test Specifications, Methods/Procedures, Facilities, and Accreditation

The tests documented in this report were performed in accordance with FCC 47 CFR §2.1093 and IEC/IEEE 63195-1:2022.

The test sites and measurement facilities used to collect data are located at

|                      |                      |
|----------------------|----------------------|
| 47173 Benicia Street | 47266 Benicia Street |
| SAR Labs A to I      | SAR Labs 1 to 19     |

UL Verification Services Inc. is accredited by A2LA, Certificate Number 0751.05

The Test Lab Conformity Assessment Body Identifier (CABID)

| Location                                               | CABID  | Company Number |
|--------------------------------------------------------|--------|----------------|
| 47173 Benicia Street, Fremont, CA, 94538 UNITED STATES | US0104 | 2324A          |
| 47266 Benicia Street, Fremont, CA, 94538 UNITED STATES |        |                |

## 3. Introduction

The equipment under test (EUT) contains the Qualcomm modem supporting 2G/3G/4G/5G technologies and millimeter wave 5G NR bands. Both WWAN modems are enabled with Qualcomm's Smart Transmit GEN2 feature with algorithms to control and manage transmitting power in real time and to ensure the time-averaged RF exposure from the WWAN modems are always in compliance with FCC requirements.

In addition to these WWAN modems, the EUT supports WLAN/BT/MSS radio(s) as well, but the WLAN/BT/MSS modem is not enabled with Qualcomm's Smart Transmit feature.

The purpose of this TAS Part 1 report is to demonstrate that this EUT complies with FCC RF exposure limits at maximum time-averaged transmit power limits for WWAN technologies, and at maximum transmit power limits for WLAN technologies. The specifics of this report are, as listed:

- SAR and power density (PD) compliance for all WWAN radios (Sub-6 GHz + 5G millimeter wave NR) is assessed based on maximum time-averaged transmit power (static transmission condition). Relevant FCC KDBs and exclusion criteria are applied on a time-average power basis for WWAN technologies. The maximum time-averaged transmit power limits for supported WWAN technologies, bands, and antennas in this report are derived in the TAS Part 0 report. The validation of the Qualcomm's Smart Transmit time-averaging algorithm and compliance under the Tx varying transmission scenario for WWAN technologies are reported in the TAS Part 2 report.
- SAR compliance for WLAN radios is assessed based on maximum transmit power as per relevant FCC KDBs.
- Demonstrated compliance in simultaneous transmission scenarios involving both WWAN and WLAN transmissions, where WWAN exposure is assessed based on time-averaged transmit power limits, and WLAN exposure is assessed based on maximum transmit power limits.

$P_{limit}$  used in this report is determined and listed in the TAS Part 0 report.

## 4. Measurement Setup and General Information

This section provides the details of the test setup used for PD measurement.

### 4.1. Test Environment

| Test Location            | UL Verification Services |
|--------------------------|--------------------------|
| Ambient Temperature      | 22±2°C                   |
| Tissue Simulating Liquid | 22±2°C                   |
| Humidity Range           | 30% ~ 49%                |

### 4.2. Power Density Measurement System

The power density measurement system is constructed based on the DASY6 platform by SPEAG. The DASY6/8 with EUmWV and 5G software module can measure the electromagnetic exposure (electromagnetic and power density) up to 110GHz as close as 2mm from any transmitter.

#### 4.2.1. Power Density Probe

The novel EUmWV probe is used in the power density measurement. It is designed for precise near-field measurements in the mm-wave range by Schmid & Partner Engineering AG of Zurich, Switzerland. The specifications are:

- Frequency range: 0.75 ~ 110 GHz
- Dynamic range: <50 – 3000 V/m (up to 10000 V/m with additional PRE-10 voltage divider)
- Linearity: < ± 0.2 dB
- Supports sensor model calibration (SMC)
- ISO17025 accredited calibration

#### 4.2.2. Power Density Measurement System Verification

The power density system verification is performed using the SPEAG verification device. It consists of a ka-band horn antenna with a corresponding gun oscillator packaged within a cube-shaped housing.

The specification of the verification device is:

- Calibrated frequency: 30 GHz at 10 mm from the case surface
- Frequency accuracy: ± 100 MHz
- E-field polarization: linear
- Harmonics: -20 dBc (typ)
- Total radiated power: 14 dBm (typ)
- Power stability: 0.05 dB
- Power consumption: 5 W (max)
- Size: 100 × 100 × 100 mm
- Weight: 1 kg

Tables 4-1 and 4-2 shows the verification test results. The measured power density (PD) value is within ±0.66 dB of the target level; for the 5G verification source's uncertainty, please refer to Appendix B.

**Table 4-1: System validation results for SAR 25**

| SAR Lab        | Test Date | 5G Probe SN | Probe Cal. Due Date | DAE SN | DAE Cal. Due Date | 5G Verification Source                 | Source Cal. Due Date | Averaging Type | Meas. 4 cm <sup>2</sup> psPDn+ (W/m <sup>2</sup> ) | Target 4 cm <sup>2</sup> psPDn+ (W/m <sup>2</sup> ) | Deviation (dB) | Meas. 4 cm <sup>2</sup> psPDtot+ (W/m <sup>2</sup> ) | Target 4 cm <sup>2</sup> psPDtot+ (W/m <sup>2</sup> ) | Deviation (dB) | Meas. 4 cm <sup>2</sup> psPDmod+ (W/m <sup>2</sup> ) | Target 4 cm <sup>2</sup> psPDmod+ (W/m <sup>2</sup> ) | Deviation (dB) |
|----------------|-----------|-------------|---------------------|--------|-------------------|----------------------------------------|----------------------|----------------|----------------------------------------------------|-----------------------------------------------------|----------------|------------------------------------------------------|-------------------------------------------------------|----------------|------------------------------------------------------|-------------------------------------------------------|----------------|
| 25             | 5/14/2025 | 9493        | 1/13/2026           | 1716   | 3/11/2026         | 5G Verification Source 30 GHz SN: 1117 | 9/6/2025             | Square         | 86.6                                               | 86.0                                                | 0.03           | 89.9                                                 | 87.5                                                  | 0.12           | 90.3                                                 | 87.8                                                  | 0.12           |
| 25             | 5/14/2025 | 9493        | 1/13/2026           | 1716   | 3/11/2026         | 5G Verification Source 30 GHz SN: 1117 | 9/6/2025             | Square         | 87.5                                               | 86.0                                                | 0.08           | 90.1                                                 | 87.5                                                  | 0.13           | 90.5                                                 | 87.8                                                  | 0.13           |
| 25             | 5/14/2025 | 9493        | 1/13/2026           | 1716   | 3/11/2026         | 5G Verification Source 30 GHz SN: 1117 | 9/6/2025             | Square         | 88.0                                               | 86.0                                                | 0.10           | 89.4                                                 | 87.5                                                  | 0.09           | 89.8                                                 | 87.8                                                  | 0.10           |
| 25             | 5/14/2025 | 9493        | 1/13/2026           | 1716   | 3/11/2026         | 5G Verification Source 30 GHz SN: 1117 | 9/6/2025             | Square         | 88.6                                               | 86.0                                                | 0.13           | 90.0                                                 | 87.5                                                  | 0.12           | 90.3                                                 | 87.8                                                  | 0.12           |
| 25             | 5/14/2025 | 9493        | 1/13/2026           | 1716   | 3/11/2026         | 5G Verification Source 30 GHz SN: 1117 | 9/6/2025             | Square         | 88.1                                               | 86.0                                                | 0.10           | 90.2                                                 | 87.5                                                  | 0.13           | 90.6                                                 | 87.8                                                  | 0.14           |
| 25             | 5/14/2025 | 9493        | 1/13/2026           | 1716   | 3/11/2026         | 5G Verification Source 30 GHz SN: 1117 | 9/6/2025             | Square         | 88.4                                               | 86.0                                                | 0.12           | 90.6                                                 | 87.5                                                  | 0.15           | 91.0                                                 | 87.8                                                  | 0.16           |
| 25             | 5/14/2025 | 9493        | 1/13/2026           | 1716   | 3/11/2026         | 5G Verification Source 30 GHz SN: 1117 | 9/6/2025             | Square         | 88.6                                               | 86.0                                                | 0.13           | 91.1                                                 | 87.5                                                  | 0.18           | 91.4                                                 | 87.8                                                  | 0.17           |
| 25             | 5/15/2025 | 9493        | 1/13/2026           | 1716   | 3/11/2026         | 5G Verification Source 30 GHz SN: 1117 | 9/6/2025             | Square         | 89.1                                               | 86.0                                                | 0.15           | 90.3                                                 | 87.5                                                  | 0.14           | 90.7                                                 | 87.8                                                  | 0.14           |
| 25             | 5/15/2025 | 9493        | 1/13/2026           | 1716   | 3/11/2026         | 5G Verification Source 30 GHz SN: 1117 | 9/6/2025             | Square         | 87.9                                               | 86.0                                                | 0.09           | 89.1                                                 | 87.5                                                  | 0.08           | 89.4                                                 | 87.8                                                  | 0.08           |
| 25             | 5/15/2025 | 9493        | 1/13/2026           | 1716   | 3/11/2026         | 5G Verification Source 30 GHz SN: 1117 | 9/6/2025             | Square         | 87.7                                               | 86.0                                                | 0.09           | 89.0                                                 | 87.5                                                  | 0.07           | 89.4                                                 | 87.8                                                  | 0.08           |
| <b>Average</b> |           |             |                     |        |                   |                                        |                      |                | 88.1                                               | 86.0                                                | 0.10           | 90.0                                                 | 87.5                                                  | 0.12           | 90.3                                                 | 87.8                                                  | 0.12           |

**Table 4-2: System Check Results for SAR 25**

| SAR Lab    | Date      | 5G Verification Source                 | Source Cal. Due Date | Averaging Type | Meas. 4 cm <sup>2</sup> psPDn+ (W/m <sup>2</sup> ) | Target 4 cm <sup>2</sup> psPDn+ (W/m <sup>2</sup> ) | Deviation (dB) | Meas. 4 cm <sup>2</sup> psPDtot+ (W/m <sup>2</sup> ) | Target 4 cm <sup>2</sup> psPDtot+ (W/m <sup>2</sup> ) | Deviation (dB) | Meas. 4 cm <sup>2</sup> psPDmod+ (W/m <sup>2</sup> ) | Target 4 cm <sup>2</sup> psPDmod+ (W/m <sup>2</sup> ) | Deviation (dB) |
|------------|-----------|----------------------------------------|----------------------|----------------|----------------------------------------------------|-----------------------------------------------------|----------------|------------------------------------------------------|-------------------------------------------------------|----------------|------------------------------------------------------|-------------------------------------------------------|----------------|
| SAR Lab 25 | 6/9/2025  | 5G Verification Source 30 GHz SN: 1117 | 9/6/2025             | Square         | 88.5                                               | 88.1                                                | 0.02           | 89.8                                                 | 90.0                                                  | -0.01          | 90.1                                                 | 90.3                                                  | -0.01          |
| SAR Lab 25 | 6/14/2025 | 5G Verification Source 30 GHz SN: 1117 | 9/6/2025             | Square         | 88.8                                               | 88.1                                                | 0.03           | 90.1                                                 | 90.0                                                  | 0.00           | 90.5                                                 | 90.3                                                  | 0.01           |
| SAR Lab 25 | 6/20/2025 | 5G Verification Source 30 GHz SN: 1117 | 9/6/2025             | Square         | 87.0                                               | 88.1                                                | -0.05          | 88.3                                                 | 90.0                                                  | -0.08          | 88.6                                                 | 90.3                                                  | -0.08          |

Validation band: CW, FRONT

Exposure Conditions

|                                  |                 |                               |              |
|----------------------------------|-----------------|-------------------------------|--------------|
| Band                             | Validation band | Phantom Section               | 5G           |
| Frequency [MHz]   Channel Number | 30000.0   30000 | Conversion Factor             | 1.0          |
| Group   UID                      | CW, 0--         | Position   Test Distance [mm] | FRONT   5.55 |

Hardware Setup

|                          |                                        |         |               |
|--------------------------|----------------------------------------|---------|---------------|
| Probe   Calibration Date | EUmmWV4 - SN9493_F1-55GHz   2025-01-13 | Phantom | mmWave   xxxx |
| DAE   Calibration Date   | DAE4 Sn1716   2025-03-11               | Medium  | Air   -       |
| Software Version         | 3.2.2.2358                             |         |               |

Scan Setup

|                     |             |                     |             |
|---------------------|-------------|---------------------|-------------|
| Scan Type           | 5G Scan     | Grid Extents [mm]   | 60.0 x 60.0 |
| Grid Steps [lambda] | 0.25 x 0.25 | Sensor Surface [mm] | 5.55        |

Measurement Results

|                        |       |
|------------------------|-------|
| Avg. Area [cm²]        | 4.00  |
| psPDn+ [W/m²]          | 88.6  |
| psPDtot+ [W/m²]        | 91.1  |
| psPDmod+ [W/m²]        | 91.4  |
| E <sub>max</sub> [V/m] | 213   |
| H <sub>max</sub> [A/m] | 0.575 |
| Power Drift [dB]       | -0.01 |

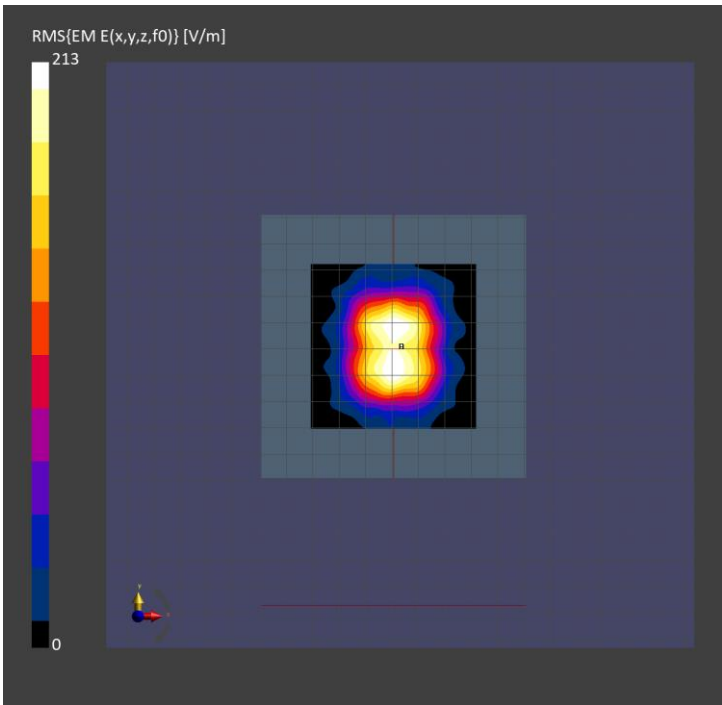


Figure 4-1: 4cm² PD for source validation (worst-case Δ) SAR 25

## 5. Test Condition, Configuration, and Assessment

### 5.1. Qualcomm Smart Transmit Parameters

These parameters are entered through the *Embedded File System* (EFS) and cannot be accessed by the end-user.

The TAS Part 0 report documents the determination of  $P_{limit}$  for Sub-6 GHz WWAN bands and the  $P_{limit}$  for 5G millimeter wave NR bands using the design targets.

- Tx\_power\_at\_SAR\_design\_target ( $P_{limit}$  in dBm) for Tx transmitting frequency < 6 GHz
  - The maximum time-average transmit power, in dBm, at which this radio configuration (i.e., band and technology) reaches the *SAR\_design\_target*. This *SAR\_design\_target* is pre-determined for the specific device, and it shall be less than regulatory SAR limit after accounting for all design related tolerances. The time-averaged SAR is assessed against this *SAR\_design\_target* in real time to determine the compliance. The  $P_{limit}$  could vary with technology, band and DSI (device state index), therefore it has the unique value for each technology, band and DSI.
- Reserve\_power\_margin (dB)
  - With Smart Transmit EFS version 17 or lower:
    - The margin, in dB, below the  $P_{limit}$  to reserve for future transmission with a minimum transmit power ( $P_{reserve}$ ):

$$P_{reserve} \text{ (dBm)} = P_{limit} \text{ (dBm)} - \text{Reserve}_{power \text{ margin}} \text{ (dB)}$$

- The *Reserve\_power\_margin* is a global parameter, meaning it applies to all the technologies and bands. When the *Reserve\_power\_margin* is set to zero dB, Smart Transmit effectively limits the upper bound of EUT transmit power to  $P_{limit}$ , in other words, the EUT transmits continuously at  $P_{limit}$ .
- With Smart Transmit EFS version 18 or higher:
  - For 2G and 3G WWAN technologies, the parameter of *Reserve\_power\_margin* has been re-named to *Reserve\_power\_margin\_db\_2g\_3g\_wwan*.
  - For 4G/5G WWAN technologies, the equivalent reserve of *Reserve\_power\_margin* is denoted as *total\_min\_exp\_budget\_linear\_4g\_5g\_wwan*. Furthermore, the parameter of *secondary\_split\_ratio* is introduced in EFS version 18 and higher so the OEM can determine the minimum reserve margin out of total minimum reserve (i.e.,  $\text{secondary\_split\_ratio} * \text{total\_min\_exp\_budget\_linear\_4g\_5g\_wwan}$ ) that is used for the secondary WWAN radio in a two-WWAN-radio transmission scenario. Here, primary WWAN radio in a two-WWAN-radio transmission scenario can get minimum reserve margin of  $(1 - \text{secondary\_split\_ratio}) * \text{total\_min\_exp\_budget\_linear\_4g\_5g\_wwan}$ .
- $P_{limit}$  (dBm) for Tx transmitting frequency  $\geq 6$  GHz
  - The maximum time-average power at the input of antenna element port, in dBm, at which each beam meets the *PD\_design\_target* that is less than the regulatory power density limit after accounting for all design related tolerances.

- **Smart Tx Gen:** **ONLY** applicable for Smart Transmit EFS version 16 or higher
  - The EFS version 16 (or higher) supports 2<sup>nd</sup> generation of Smart Transmit (GEN2). The EUT with Smart Transmit EFS version 16 (or higher) has an option to select GEN1 or GEN2. The procedure to determine PD char (i.e.,  $P_{limit}$ ) is different. Therefore, in the case of EUT with Smart Transmit EFS version 16 (or higher), additional millimeter wave module switch test is needed to confirm if Smart Transmit EFS used in EUT is configured for GEN1 or GEN2. The EFS configuration (GEN1 or GEN2) should correspond to the PD char performed in TAS Part 0 report, otherwise, EFS configuration should be changed to match GEN1/GEN2 PD char of TAS Part 0 report.
  - Qualcomm 2<sup>nd</sup> generation of Smart Transmit (GEN2) supports Sub-6 GHz and millimeter wave favor modes. The Smart Transmit EFS provides below options to configure for a given MCC (country/region):
    - GEN1
    - GEN2\_MILLIMETER WAVE
    - GEN2\_SUB-6 GHZ
    - GEN2\_SUB-6 GHZ\_MILLIMETER WAVE
- **force peak** for Tx transmitting frequency < 6 GHz
  - The Smart Transmit feature applies time-averaging windows when the device detects an MCC that matches Time-Averaged Exposure MCCs list. For each of the MCCs under Time-Averaged Exposure MCCs list, the Smart Transmit feature can limit either maximum instantaneous Tx power or maximum time-average power to  $P_{limit}$  per tech/band/antenna/DSI. If force peak is set to '1' for a given tech/band/antenna/DSI in the EFS, then the Smart Transmit feature limits the maximum instantaneous Tx power to  $P_{limit}$  for the selected tech/band/antenna/DSI. In other words, with force peak set to '1', under static condition (i.e., fixed tech/band/antenna/DSI) and in single active Tx scenario, Smart Transmit can guarantee Tx power level of  $P_{limit}$  at all times.
- **WWAN Backoff (dB) for WiFi/BT:** **ONLY** applicable for Smart Transmit EFS version 16 (or higher) in GEN1 or GEN2\_MILLIMETER WAVE configurations<sup>1</sup>
  - The EFS version 16 (or higher) provides the entry to backoff WWAN radio when WLAN is transmitting. This backoff when WiFi/BT is transmitting can be configured per tech/band/DSI/antenna (Sub-6 GHz antenna and millimeter wave module) in GEN1 or GEN2\_MILLIMETER WAVE configuration only. Therefore, in the case of EUT with Smart Transmit EFS version 16 (or higher), perform additional tests (one for Sub-6 GHz WWAN radio, and one for millimeter wave WWAN radio) to verify whether backoff configured in EFS is properly applied by Smart Transmit for GEN1 or GEN2\_MILLIMETER WAVE configurations when WiFi/BT is transmitting.

### 5.1.1. Qualcomm Smart Transmit Parameters for the Sub-6 Modem

For this EUT, the input parameters listed in §5.3 of the TAS Part 0 report are populated via the EFS entry.

### 5.1.2. Qualcomm Smart Transmit parameters for the 5G modem

For this EUT, the  $P_{limit}$  parameters for the 5G millimeter wave NR radio(s) are listed in §5.7.3 of the TAS Part 0 report and are populated via EFS entry into the EUT.

## 5.2. Device Test Configuration for SAR Measurements

In summary, SAR is evaluated on this EUT in test configurations and test conditions listed below:

- **Test configurations:** Body-worn & Hotspot SAR exposure (1-g SAR) from all device surfaces/edges (front, back, left, right, top, bottom) having a transmitting antenna located  $\leq 25\text{mm}$  from that device surface/edge when in direct contact with flat section of SAM phantom.
- **Test condition:** The SAR measurements on all supported Sub-6 WWAN technologies and bands are conducted with the EUT transmitting at maximum time-average transmit power ( $P_{limit}$ ) or maximum RF tune-up power ( $P_{max}$ ) if  $P_{max} \leq P_{limit}$ .

<sup>1</sup> This is not a compliance test, the compliance in WWAN + WLAN/BT scenario should be demonstrated in Part 1 simultaneous transmission analysis section; **WWAN Backoff (dB) for WiFi/BT** is applicable **ONLY** when EUT is configured as GEN1 and/or GEN2\_MMW.

### 5.3. Device Test Configuration for PD Measurements

As can be seen in §5 of the TAS Part 0 report, the PD exposure for this EUT has been assessed against the  $PD_{Design\ Target}$  listed in §5.1 of this report using a validated simulation approach for the worst cases for all its beams. To further confirm the compliance, a subset of beams and test cases were selected for PD verification, see §6.2.

The below beam selection criteria for the PD verification test are followed:

- Select one single beam (antenna array config) per antenna type (dipole or patch) and per millimeter wave antenna module
  - The single beam containing highest number of active antenna ports. For example, the single beam with 4 active patch ports should be selected over the beam with a single active patch port
- Select one beam pair (if applicable) per antenna type (dipole or patch) and per millimeter wave antenna module
  - The beam pair containing the highest number of active antenna ports.

Additionally, since the worst-case surface dictates the compliance, the PD measurement is made on the worst channel and worst surface determined through the validated simulation approach, see Appendix B of the TAS Part 0 report.

Based on the aforementioned criteria and the EUT codebook in §5.3 of the TAS Part 0 report, Tables 5-1 to 5-3 list the selected beams and test cases for PD verification measurement(s). The definition of the EUT surface is illustrated in Figure 5-1.

**Table 5-1: PD verification test cases for n258**

| Module/Antenna | Ch.   | Beam ID1 | Beam ID2 | BW  | RB | DUT     |
|----------------|-------|----------|----------|-----|----|---------|
|                |       | V        | H        | MHz | #  | Surface |
| ANT M1         | 24350 | 12       |          | 100 | 1  | Top     |
|                | 25200 |          | 274      | 100 | 33 | Top     |
|                | 25200 | 19       | 275      | 100 | 1  | Top     |
|                | 24350 |          | 274      | 100 | 33 | Left    |
|                | 24350 |          | 274      | 100 | 33 | Right   |

**Table 5-2: PD verification test cases for n260**

| Module/Antenna | Ch.   | Beam ID1 | Beam ID2 | BW  | RB | DUT     |
|----------------|-------|----------|----------|-----|----|---------|
|                |       | V        | H        | MHz | #  | Surface |
| ANT M1         | 38500 | 19       |          | 100 | 1  | Top     |
|                | 39950 |          | 269      | 50  | 66 | Top     |
|                | 38500 | 19       | 275      | 100 | 1  | Top     |
|                | 39950 |          | 269      | 50  | 66 | Left    |
|                | 39950 |          | 269      | 50  | 66 | Right   |

**Table 5-3: PD verification test cases for n261**

| Module/Antenna | Ch.   | Beam ID1 | Beam ID2 | BW  | RB | DUT     |
|----------------|-------|----------|----------|-----|----|---------|
|                |       | V        | H        | MHz | #  | Surface |
| ANT M1         | 27550 | 11       |          | 100 | 1  | Top     |
|                | 27925 |          | 272      | 100 | 66 | Top     |
|                | 28300 | 15       | 271      | 100 | 1  | Top     |
|                | 27925 |          | 272      | 100 | 66 | Left    |
|                | 27925 |          | 272      | 100 | 66 | Right   |

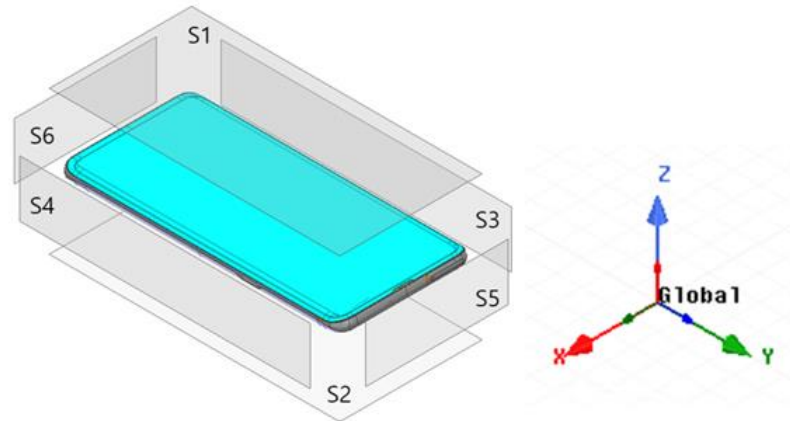


Figure 5-1: EUT surface definition (S1=Front, S2=Back, S3=Edge Left, S4=Edge Right, S5=Edge Top, S6=Edge Bottom)

## 6. Summary of Results

### 6.1. SAR Measurement and Conducted Power Results at $P_{\text{limit}}$

The transmit power limit,  $P_{\text{limit}}$ , that corresponds to the  $SAR_{\text{Design Target}}$ , stated in §5.1 for all technologies and bands, was determined through the TAS Part 0 report and are listed in EFS entries in §5.3 of the TAS Part 0 report. For this EUT, the  $P_{\text{max}}$  (maximum RF tune-up power) for select Sub-6 GHz technologies is less than, or equal to, the corresponding  $P_{\text{limit}}$ , as summarized and shown in Table 6-1.

Table 6-1: Comparison of  $P_{\text{limit}}$  and  $P_{\text{max}}$ 

| Transmitter | Technology              | DS1: 0 (Head)                 |             |                               |                          |                        |                               |                               |                        |             |             |                               |                          | DS1: 1 (Body & Extremity)     |                               |                          |                        |             |             |                               |                          |                        |             |             |                               |
|-------------|-------------------------|-------------------------------|-------------|-------------------------------|--------------------------|------------------------|-------------------------------|-------------------------------|------------------------|-------------|-------------|-------------------------------|--------------------------|-------------------------------|-------------------------------|--------------------------|------------------------|-------------|-------------|-------------------------------|--------------------------|------------------------|-------------|-------------|-------------------------------|
|             |                         | Cell PS1 + Connectivity PS3/6 |             |                               |                          |                        |                               | Cell PS2 + Connectivity PS3/4 |                        |             |             |                               |                          | Cell PS1 + Connectivity PS3/6 |                               |                          |                        |             |             | Cell PS2 + Connectivity PS3/4 |                          |                        |             |             |                               |
|             |                         | Uncert. (+)                   | Uncert. (-) | $P_{\text{Limit, nom}}$ (dBm) | $P_{\text{Limit}}$ (dBm) | $P_{\text{Max}}$ (dBm) | $P_{\text{Limit, nom}}$ (dBm) | $P_{\text{Limit}}$ (dBm)      | $P_{\text{Max}}$ (dBm) | Uncert. (+) | Uncert. (-) | $P_{\text{Limit, nom}}$ (dBm) | $P_{\text{Limit}}$ (dBm) | $P_{\text{Max}}$ (dBm)        | $P_{\text{Limit, nom}}$ (dBm) | $P_{\text{Limit}}$ (dBm) | $P_{\text{Max}}$ (dBm) | Uncert. (+) | Uncert. (-) | $P_{\text{Limit, nom}}$ (dBm) | $P_{\text{Limit}}$ (dBm) | $P_{\text{Max}}$ (dBm) | Uncert. (+) | Uncert. (-) | $P_{\text{Limit, nom}}$ (dBm) |
| ANT 1       | GSM 1900 GMSK 1 Slot    | 1.6                           | -1.6        | 27.4                          | 29.0                     | 29.0                   | 27.4                          | 29.0                          | 29.0                   | 1.6         | -1.6        | 27.4                          | 29.0                     | 29.0                          | 27.4                          | 29.0                     | 29.0                   | 1.6         | -1.6        | 27.4                          | 29.0                     | 29.0                   | 1.6         | -1.6        | 27.4                          |
| ANT 1       | GSM 1900 GMSK 2 Slot(s) | 1.6                           | -1.6        | 26.4                          | 28.0                     | 28.0                   | 26.4                          | 28.0                          | 28.0                   | 1.6         | -1.6        | 26.4                          | 28.0                     | 28.0                          | 26.4                          | 28.0                     | 28.0                   | 1.6         | -1.6        | 26.4                          | 28.0                     | 28.0                   | 1.6         | -1.6        | 26.4                          |
| ANT 1       | GSM 1900 8PSK 1 Slot    | 1.6                           | -1.6        | 22.4                          | 24.0                     | 24.0                   | 22.4                          | 24.0                          | 24.0                   | 1.6         | -1.6        | 22.4                          | 24.0                     | 24.0                          | 22.4                          | 24.0                     | 24.0                   | 1.6         | -1.6        | 22.4                          | 24.0                     | 24.0                   | 1.6         | -1.6        | 22.4                          |
| ANT 1       | GSM 1900 8PSK 2 Slot(s) | 1.6                           | -1.6        | 21.4                          | 23.0                     | 23.0                   | 21.4                          | 23.0                          | 23.0                   | 1.6         | -1.6        | 21.4                          | 23.0                     | 23.0                          | 21.4                          | 23.0                     | 23.0                   | 1.6         | -1.6        | 21.4                          | 23.0                     | 23.0                   | 1.6         | -1.6        | 21.4                          |
| ANT 1       | W-CDMA B2 Rel. 99       | 1.6                           | -1.6        | 22.6                          | 24.2                     | 24.2                   | 22.6                          | 24.2                          | 24.2                   | 1.6         | -1.6        | 22.6                          | 24.2                     | 24.2                          | 22.6                          | 24.2                     | 24.2                   | 1.6         | -1.6        | 22.6                          | 24.2                     | 24.2                   | 1.6         | -1.6        | 22.6                          |
| ANT 1       | W-CDMA B2 HSDPA         | 1.6                           | -1.6        | 22.6                          | 24.2                     | 24.2                   | 22.6                          | 24.2                          | 24.2                   | 1.6         | -1.6        | 22.6                          | 24.2                     | 24.2                          | 22.6                          | 24.2                     | 24.2                   | 1.6         | -1.6        | 22.6                          | 24.2                     | 24.2                   | 1.6         | -1.6        | 22.6                          |
| ANT 1       | W-CDMA B2 HSUPA         | 1.6                           | -1.6        | 22.6                          | 24.2                     | 24.2                   | 22.6                          | 24.2                          | 24.2                   | 1.6         | -1.6        | 22.6                          | 24.2                     | 24.2                          | 22.6                          | 24.2                     | 24.2                   | 1.6         | -1.6        | 22.6                          | 24.2                     | 24.2                   | 1.6         | -1.6        | 22.6                          |
| ANT 1       | W-CDMA B2 HSPA+         | 1.6                           | -1.6        | 22.6                          | 24.2                     | 24.2                   | 22.6                          | 24.2                          | 24.2                   | 1.6         | -1.6        | 22.6                          | 24.2                     | 24.2                          | 22.6                          | 24.2                     | 24.2                   | 1.6         | -1.6        | 22.6                          | 24.2                     | 24.2                   | 1.6         | -1.6        | 22.6                          |
| ANT 1       | W-CDMA B4 Rel. 99       | 1.7                           | -1.7        | 22.5                          | 24.2                     | 24.2                   | 22.5                          | 24.2                          | 24.2                   | 1.7         | -1.7        | 22.1                          | 23.8                     | 24.2                          | 21.3                          | 23.0                     | 24.2                   | 1.7         | -1.7        | 22.1                          | 23.8                     | 24.2                   | 1.7         | -1.7        | 22.1                          |
| ANT 1       | W-CDMA B4 HSDPA         | 1.7                           | -1.7        | 22.5                          | 24.2                     | 24.2                   | 22.5                          | 24.2                          | 24.2                   | 1.7         | -1.7        | 22.1                          | 23.8                     | 24.2                          | 21.3                          | 23.0                     | 24.2                   | 1.7         | -1.7        | 22.1                          | 23.8                     | 24.2                   | 1.7         | -1.7        | 22.1                          |
| ANT 1       | W-CDMA B4 HSUPA         | 1.7                           | -1.7        | 22.5                          | 24.2                     | 24.2                   | 22.5                          | 24.2                          | 24.2                   | 1.7         | -1.7        | 22.1                          | 23.8                     | 24.2                          | 21.3                          | 23.0                     | 24.2                   | 1.7         | -1.7        | 22.1                          | 23.8                     | 24.2                   | 1.7         | -1.7        | 22.1                          |
| ANT 1       | W-CDMA B4 HSPA+         | 1.7                           | -1.7        | 22.5                          | 24.2                     | 24.2                   | 22.5                          | 24.2                          | 24.2                   | 1.7         | -1.7        | 22.1                          | 23.8                     | 24.2                          | 21.3                          | 23.0                     | 24.2                   | 1.7         | -1.7        | 22.1                          | 23.8                     | 24.2                   | 1.7         | -1.7        | 22.1                          |
| ANT 1       | LTE B2 PC3              | 1.6                           | -1.6        | 22.6                          | 24.2                     | 24.2                   | 22.6                          | 24.2                          | 24.2                   | 1.6         | -1.6        | 22.6                          | 24.2                     | 24.2                          | 22.6                          | 24.2                     | 24.2                   | 1.6         | -1.6        | 22.6                          | 24.2                     | 24.2                   | 1.6         | -1.6        | 22.6                          |
| ANT 1       | LTE B4 PC3              | 1.7                           | -1.7        | 22.5                          | 24.2                     | 24.2                   | 22.5                          | 24.2                          | 24.2                   | 1.7         | -1.7        | 22.5                          | 24.2                     | 24.2                          | 21.7                          | 23.4                     | 24.2                   | 1.7         | -1.7        | 22.5                          | 24.2                     | 24.2                   | 1.7         | -1.7        | 22.5                          |
| ANT 1       | LTE B7 PC3              | 2.0                           | -2.0        | 22.2                          | 24.2                     | 24.2                   | 22.2                          | 24.2                          | 24.2                   | 2.0         | -2.0        | 21.1                          | 23.1                     | 24.2                          | 20.3                          | 22.3                     | 24.2                   | 2.0         | -2.0        | 21.1                          | 23.1                     | 24.2                   | 2.0         | -2.0        | 21.1                          |
| ANT 1       | LTE B25 PC3             | 1.6                           | -1.6        | 22.6                          | 24.2                     | 24.2                   | 22.6                          | 24.2                          | 24.2                   | 1.6         | -1.6        | 22.6                          | 24.2                     | 24.2                          | 22.6                          | 24.2                     | 24.2                   | 1.6         | -1.6        | 22.6                          | 24.2                     | 24.2                   | 1.6         | -1.6        | 22.6                          |
| ANT 1       | LTE B30 PC3             | 1.5                           | -1.5        | 22.7                          | 24.2                     | 24.2                   | 22.7                          | 24.2                          | 24.2                   | 1.5         | -1.5        | 22.7                          | 24.2                     | 24.2                          | 22.7                          | 24.2                     | 24.2                   | 1.5         | -1.5        | 22.7                          | 24.2                     | 24.2                   | 1.5         | -1.5        | 22.7                          |
| ANT 1       | LTE B41 PC3             | 1.9                           | -1.9        | 23.8                          | 25.7                     | 25.7                   | 23.8                          | 25.7                          | 25.7                   | 1.9         | -1.9        | 21.7                          | 23.6                     | 25.7                          | 20.9                          | 22.8                     | 25.7                   | 1.9         | -1.9        | 21.7                          | 23.6                     | 25.7                   | 1.9         | -1.9        | 21.7                          |
| ANT 1       | LTE B41 PC2             | 1.9                           | -1.9        | 26.8                          | 28.7                     | 28.7                   | 26.8                          | 28.7                          | 28.7                   | 1.9         | -1.9        | 23.7                          | 25.6                     | 28.7                          | 22.9                          | 24.8                     | 28.7                   | 1.9         | -1.9        | 23.7                          | 25.6                     | 28.7                   | 1.9         | -1.9        | 23.7                          |
| ANT 1       | LTE B66 PC3             | 1.7                           | -1.7        | 24.0                          | 25.7                     | 25.7                   | 24.0                          | 25.7                          | 25.7                   | 1.7         | -1.7        | 22.5                          | 24.2                     | 25.7                          | 21.7                          | 23.4                     | 25.7                   | 1.7         | -1.7        | 22.5                          | 24.2                     | 25.7                   | 1.7         | -1.7        | 22.5                          |
| ANT 1       | LTE ULCA B7 PC3         | 2.0                           | -2.0        | 22.2                          | 24.2                     | 24.2                   | 22.2                          | 24.2                          | 24.2                   | 2.0         | -2.0        | 21.1                          | 23.1                     | 24.2                          | 20.3                          | 22.3                     | 24.2                   | 2.0         | -2.0        | 21.1                          | 23.1                     | 24.2                   | 2.0         | -2.0        | 21.1                          |
| ANT 1       | LTE ULCA B41 PC3        | 1.9                           | -1.9        | 23.8                          | 25.7                     | 25.7                   | 23.8                          | 25.7                          | 25.7                   | 1.9         | -1.9        | 21.7                          | 23.6                     | 25.7                          | 20.9                          | 22.8                     | 25.7                   | 1.9         | -1.9        | 21.7                          | 23.6                     | 25.7                   | 1.9         | -1.9        | 21.7                          |
| ANT 1       | LTE ULCA B41 PC2        | 1.9                           | -1.9        | 26.8                          | 28.7                     | 28.7                   | 26.8                          | 28.7                          | 28.7                   | 1.9         | -1.9        | 23.7                          | 25.6                     | 28.7                          | 22.9                          | 24.8                     | 28.7                   | 1.9         | -1.9        | 23.7                          | 25.6                     | 28.7                   | 1.9         | -1.9        | 23.7                          |
| ANT 1       | FR1 n2 PC3              | 0.9                           | -0.9        | 23.3                          | 24.2                     | 24.2                   | 23.3                          | 24.2                          | 24.2                   | 0.9         | -0.9        | 23.3                          | 24.2                     | 24.2                          | 23.3                          | 24.2                     | 24.2                   | 0.9         | -0.9        | 23.3                          | 24.2                     | 24.2                   | 0.9         | -0.9        | 23.3                          |
| ANT 1       | FR1 n7 PC3              | 1.8                           | -1.8        | 22.4                          | 24.2                     | 24.2                   | 22.4                          | 24.2                          | 24.2                   | 1.8         | -1.8        | 21.3                          | 23.1                     | 24.2                          | 20.5                          | 22.3                     | 24.2                   | 1.8         | -1.8        | 21.3                          | 23.1                     | 24.2                   | 1.8         | -1.8        | 21.3                          |
| ANT 1       | FR1 n25 PC3             | 0.9                           | -0.9        | 23.3                          | 24.2                     | 24.2                   | 23.3                          | 24.2                          | 24.2                   | 0.9         | -0.9        | 23.3                          | 24.2                     | 24.2                          | 23.3                          | 24.2                     | 24.2                   | 0.9         | -0.9        | 23.3                          | 24.2                     | 24.2                   | 0.9         | -0.9        | 23.3                          |
| ANT 1       | FR1 n30 PC3             | 1.0                           | -1.0        | 23.2                          | 24.2                     | 24.2                   | 23.2                          | 24.2                          | 24.2                   | 1.0         | -1.0        | 23.2                          | 24.2                     | 24.2                          | 23.2                          | 24.2                     | 24.2                   | 1.0         | -1.0        | 23.2                          | 24.2                     | 24.2                   | 1.0         | -1.0        | 23.2                          |
| ANT 1       | FR1 n41 PC3             | 1.6                           | -1.6        | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                          | 25.7                   | 1.6         | -1.6        | 21.0                          | 22.6                     | 25.7                          | 20.2                          | 21.8                     | 25.7                   | 1.6         | -1.6        | 21.0                          | 22.6                     | 25.7                   | 1.6         | -1.6        | 21.0                          |
| ANT 1       | FR1 n41 PC2             | 1.6                           | -1.6        | 27.1                          | 28.7                     | 28.7                   | 27.1                          | 28.7                          | 28.7                   | 1.6         | -1.6        | 24.0                          | 25.6                     | 28.7                          | 22.2                          | 23.8                     | 28.7                   | 1.6         | -1.6        | 24.0                          | 25.6                     | 28.7                   | 1.6         | -1.6        | 24.0                          |
| ANT 1       | FR1 n66 PC3             | 1.0                           | -1.0        | 24.7                          | 25.7                     | 25.7                   | 24.7                          | 25.7                          | 25.7                   | 1.0         | -1.0        | 23.2                          | 24.2                     | 25.7                          | 22.4                          | 23.4                     | 25.7                   | 1.0         | -1.0        | 23.2                          | 24.2                     | 25.7                   | 1.0         | -1.0        | 23.2                          |
| ANT 1       | FR1 n70 PC3             | 0.8                           | -0.8        | 23.4                          | 24.2                     | 24.2                   | 23.4                          | 24.2                          | 24.2                   | 0.8         | -0.8        | 23.4                          | 24.2                     | 24.2                          | 23.4                          | 24.2                     | 24.2                   | 0.8         | -0.8        | 23.4                          | 24.2                     | 24.2                   | 0.8         | -0.8        | 23.4                          |
| ANT 2       | GSM 850 GMSK 1 Slot     | 1.4                           | -1.4        | 31.1                          | 32.5                     | 32.5                   | 31.1                          | 32.5                          | 32.5                   | 1.4         | -1.4        | 31.1                          | 32.5                     | 32.5                          | 31.1                          | 32.5                     | 32.5                   | 1.4         | -1.4        | 31.1                          | 32.5                     | 32.5                   | 1.4         | -1.4        | 31.1                          |
| ANT 2       | GSM 850 GMSK 2 Slot(s)  | 1.4                           | -1.4        | 29.3                          | 30.7                     | 30.7                   | 29.3                          | 30.7                          | 30.7                   | 1.4         | -1.4        | 29.8                          | 31.5                     | 31.5                          | 29.8                          | 31.5                     | 31.5                   | 1.4         | -1.4        | 29.8                          | 31.5                     | 31.5                   | 1.4         | -1.4        | 29.8                          |
| ANT 2       | GSM 850 8PSK 1 Slot     | 1.4                           | -1.4        | 25.6                          | 27.0                     | 27.0                   | 25.6                          | 27.0                          | 27.0                   | 1.4         | -1.4        | 25.6                          | 27.0                     | 27.0                          | 25.6                          | 27.0                     | 27.0                   | 1.4         | -1.4        | 25.6                          | 27.0                     | 27.0                   | 1.4         | -1.4        | 25.6                          |
| ANT 2       | GSM 850 8PSK 2 Slot(s)  | 1.4                           | -1.4        | 24.6                          | 26.0                     | 26.0                   | 24.6                          | 26.0                          | 26.0                   | 1.4         | -1.4        | 24.6                          | 26.0                     | 26.0                          | 24.6                          | 26.0                     | 26.0                   | 1.4         | -1.4        | 24.6                          | 26.0                     | 26.0                   | 1.4         | -1.4        | 24.6                          |
| ANT 2       | GSM 1900 GMSK 1 Slot    | 1.7                           | -1.7        | 29.1                          | 30.8                     | 31.0                   | 28.3                          | 30.0                          | 31.0                   | 1.7         | -1.7        | 29.3                          | 31.0                     | 31.0                          | 29.3                          | 31.0                     | 31.0                   | 1.7         | -1.7        | 29.3                          | 31.0                     | 31.0                   | 1.7         | -1.7        | 29.3                          |
| ANT 2       | GSM 1900 GMSK 2 Slot(s) | 1.7                           | -1.7        | 26.1                          | 27.8                     | 30.0                   | 25.3                          | 27.0                          | 30.0                   | 1.7         | -1.7        | 28.3                          | 30.0                     | 30.0                          | 27.5                          | 29.2                     | 30.0                   | 1.7         | -1.7        | 28.3                          | 30.0                     | 30.0                   | 1.7         | -1.7        | 28.3                          |
| ANT 2       | GSM 1900 8PSK 1 Slot    | 1.7                           | -1.7        | 24.3                          | 26.0                     | 26.0                   | 24.3                          | 26.0                          | 26.0                   | 1.7         | -1.7        | 24.3                          | 26.0                     | 26.0                          | 24.3                          | 26.0                     | 26.0                   | 1.7         | -1.7        | 24.3                          | 26.0                     | 26.0                   | 1.7         | -1.7        | 24.3                          |
| ANT 2       | GSM 1900 8PSK 2 Slot(s) | 1.7                           | -1.7        | 23.3                          | 25.0                     | 25.0                   | 23.3                          | 25.0                          | 25.0                   | 1.7         | -1.7        | 23.3                          | 25.0                     | 25.0                          | 23.3                          | 25.0                     | 25.0                   | 1.7         | -1.7        | 23.3                          | 25.0                     | 25.0                   | 1.7         | -1.7        | 23.3                          |
| ANT 2       | W-CDMA B2 Rel. 99       | 1.7                           | -1.7        | 20.0                          | 21.7                     | 25.7                   | 19.2                          | 20.9                          | 25.7                   | 1.7         | -1.7        | 22.3                          | 24.0                     | 25.7                          | 21.5                          | 23.2                     | 25.7                   | 1.7         | -1.7        | 22.3                          | 24.0                     | 25.7                   | 1.7         | -1.7        | 22.3                          |
| ANT 2       | W-CDMA B2 HSDPA         | 1.7                           | -1.7        | 20.0                          | 21.7                     | 25.7                   | 19.2                          | 20.9                          | 25.7                   | 1.7         | -1.7        | 22.3                          | 24.0                     | 25.7                          | 21.5                          | 23.2                     | 25.7                   | 1.7         | -1.7        | 22.3                          | 24.0                     | 25.7                   | 1.7         | -1.7        | 22.3                          |
| ANT 2       | W-CDMA B2 HSUPA         | 1.7                           | -1.7        | 20.0                          | 21.7                     | 25.7                   | 19.2                          | 20.9                          | 25.7                   | 1.7         | -1.7        | 22.3                          | 24.0                     | 25.7                          | 21.5                          | 23.2                     | 25.7                   | 1.7         | -1.7        | 22.3                          | 24.0                     | 25.7                   | 1.7         | -1.7        | 22.3                          |
| ANT 2       | W-CDMA B2 HSPA+         | 1.7                           | -1.7        | 20.0                          | 21.7                     | 25.7                   | 19.2                          | 20.9                          | 25.7                   | 1.7         | -1.7        | 22.3                          | 24.0                     | 25.7                          | 21.5                          | 23.2                     | 25.7                   | 1.7         | -1.7        | 22.3                          | 24.0                     | 25.7                   | 1.7         | -1.7        | 22.3                          |
| ANT 2       | W-CDMA B4 Rel. 99       | 1.5                           | -1.5        | 20.3                          | 21.8                     | 25.7                   | 19.5                          | 21.0                          | 25.7                   | 1.5         | -1.5        | 21.8                          | 23.3                     | 25.7                          | 21.0                          | 22.5                     | 25.7                   | 1.5         | -1.5        | 21.8                          | 23.3                     | 25.7                   | 1.5         | -1.5        | 21.8                          |
| ANT 2       | W-CDMA B4 HSDPA         | 1.5                           | -1.5        | 20.3                          | 21.8                     | 25.7                   | 19.5                          | 21.0                          | 25.7                   | 1.5         | -1.5        | 21.8                          | 23.3                     | 25.7                          | 21.0                          | 22.5                     | 25.7                   | 1.5         | -1.5        | 21.8                          | 23.3                     | 25.7                   | 1.5         | -1.5        | 21.8                          |
| ANT 2       | W-CDMA B4 HSUPA         | 1.5                           | -1.5        | 20.3                          | 21.8                     | 25.7                   | 19.5                          | 21.0                          | 25.7                   | 1.5         | -1.5        | 21.8                          | 23.3                     | 25.7                          | 21.0                          | 22.5                     | 25.7                   | 1.5         | -1.5        | 21.8                          | 23.3                     | 25.7                   | 1.5         | -1.5        | 21.8                          |
| ANT 2       | W-CDMA B4 HSPA+         | 1.5                           | -1.5        | 20.3                          | 21.8                     | 25.7                   | 19.5                          | 21.0                          | 25.7                   | 1.5         | -1.5        | 21.8                          | 23.3                     | 25.7                          | 21.0                          | 22.5                     | 25.7                   | 1.5         | -1.5        | 21.8                          | 23.3                     | 25.7                   | 1.5         | -1.5        | 21.8                          |
| ANT 2       | W-CDMA B5 Rel. 99       | 1.4                           | -1.4        | 23.2                          | 24.6                     | 25.2                   | 22.4                          | 23.8                          | 25.2                   | 1.4         | -1.4        | 23.6                          | 25.0                     | 25.2                          | 22.8                          | 24.2                     | 25.2                   | 1.4         | -1.4        | 23.6                          | 25.0                     | 25.2                   | 1.4         | -1.4        |                               |

| Transmitter | Technology              | DSI: 0 (Head)   |      |                               |                          |                        |                               |                          |                        |                 |      | DSI 1: (Body & Extremity)     |                          |                        |                               |                          |                        |                               |                          |                        |                        |
|-------------|-------------------------|-----------------|------|-------------------------------|--------------------------|------------------------|-------------------------------|--------------------------|------------------------|-----------------|------|-------------------------------|--------------------------|------------------------|-------------------------------|--------------------------|------------------------|-------------------------------|--------------------------|------------------------|------------------------|
|             |                         | Uncert. (+) (-) |      | Cell PS1 + Connectivity PS5/6 |                          |                        |                               |                          |                        | Uncert. (+) (-) |      | Cell PS1 + Connectivity PS5/6 |                          |                        |                               |                          |                        | Cell PS2 + Connectivity PS3/4 |                          |                        |                        |
|             |                         |                 |      | P <sub>Limit, nom</sub> (dBm) | P <sub>Limit</sub> (dBm) | P <sub>Max</sub> (dBm) | P <sub>Limit, nom</sub> (dBm) | P <sub>Limit</sub> (dBm) | P <sub>Max</sub> (dBm) |                 |      | P <sub>Limit, nom</sub> (dBm) | P <sub>Limit</sub> (dBm) | P <sub>Max</sub> (dBm) | P <sub>Limit, nom</sub> (dBm) | P <sub>Limit</sub> (dBm) | P <sub>Max</sub> (dBm) | P <sub>Limit, nom</sub> (dBm) | P <sub>Limit</sub> (dBm) | P <sub>Max</sub> (dBm) | P <sub>Max</sub> (dBm) |
| ANT 3       | GSM 850 GMSK 1 Slot     | 1.6             | -1.6 | 31.9                          | 33.5                     | 33.5                   | 31.9                          | 33.5                     | 33.5                   | 1.6             | -1.6 | 31.9                          | 33.5                     | 33.5                   | 31.9                          | 33.5                     | 33.5                   | 31.9                          | 33.5                     | 33.5                   | 33.5                   |
| ANT 3       | GSM 850 GMSK 2 Slot(s)  | 1.6             | -1.6 | 30.9                          | 32.5                     | 32.5                   | 30.9                          | 32.5                     | 32.5                   | 1.6             | -1.6 | 30.9                          | 32.5                     | 32.5                   | 30.9                          | 32.5                     | 32.5                   | 30.9                          | 32.5                     | 32.5                   | 32.5                   |
| ANT 3       | GSM 850 8PSK 1 Slot     | 1.6             | -1.6 | 26.4                          | 28.0                     | 28.0                   | 26.4                          | 28.0                     | 28.0                   | 1.6             | -1.6 | 26.4                          | 28.0                     | 28.0                   | 26.4                          | 28.0                     | 28.0                   | 26.4                          | 28.0                     | 28.0                   | 28.0                   |
| ANT 3       | GSM 850 8PSK 2 Slot(s)  | 1.6             | -1.6 | 25.4                          | 27.0                     | 27.0                   | 25.4                          | 27.0                     | 27.0                   | 1.6             | -1.6 | 25.4                          | 27.0                     | 27.0                   | 25.4                          | 27.0                     | 27.0                   | 25.4                          | 27.0                     | 27.0                   | 27.0                   |
| ANT 3       | GSM 1900 GMSK 1 Slot    | 1.3             | -1.3 | 30.7                          | 32.0                     | 32.0                   | 30.7                          | 32.0                     | 32.0                   | 1.3             | -1.3 | 30.4                          | 31.7                     | 32.0                   | 29.6                          | 30.9                     | 32.0                   | 29.6                          | 30.9                     | 32.0                   | 32.0                   |
| ANT 3       | GSM 1900 GMSK 2 Slot(s) | 1.3             | -1.3 | 29.7                          | 31.0                     | 31.0                   | 29.7                          | 31.0                     | 31.0                   | 1.3             | -1.3 | 27.4                          | 28.7                     | 31.0                   | 26.6                          | 27.9                     | 31.0                   | 26.6                          | 27.9                     | 31.0                   | 31.0                   |
| ANT 3       | GSM 1900 8PSK 1 Slot    | 1.3             | -1.3 | 25.7                          | 27.0                     | 27.0                   | 25.7                          | 27.0                     | 27.0                   | 1.3             | -1.3 | 25.7                          | 27.0                     | 27.0                   | 25.7                          | 27.0                     | 27.0                   | 25.7                          | 27.0                     | 27.0                   | 27.0                   |
| ANT 3       | GSM 1900 8PSK 2 Slot(s) | 1.3             | -1.3 | 24.7                          | 26.0                     | 26.0                   | 24.7                          | 26.0                     | 26.0                   | 1.3             | -1.3 | 24.7                          | 26.0                     | 26.0                   | 24.7                          | 26.0                     | 26.0                   | 24.7                          | 26.0                     | 26.0                   | 26.0                   |
| ANT 3       | W-CDMA B2 Rel. 99       | 1.3             | -1.3 | 24.4                          | 25.7                     | 25.7                   | 24.4                          | 25.7                     | 25.7                   | 1.3             | -1.3 | 20.7                          | 22.0                     | 25.7                   | 19.9                          | 21.2                     | 25.7                   | 19.9                          | 21.2                     | 25.7                   | 25.7                   |
| ANT 3       | W-CDMA B2 HSDPA         | 1.3             | -1.3 | 24.4                          | 25.7                     | 25.7                   | 24.4                          | 25.7                     | 25.7                   | 1.3             | -1.3 | 20.7                          | 22.0                     | 25.7                   | 19.9                          | 21.2                     | 25.7                   | 19.9                          | 21.2                     | 25.7                   | 25.7                   |
| ANT 3       | W-CDMA B2 HSPA+         | 1.3             | -1.3 | 24.4                          | 25.7                     | 25.7                   | 24.4                          | 25.7                     | 25.7                   | 1.3             | -1.3 | 20.7                          | 22.0                     | 25.7                   | 19.9                          | 21.2                     | 25.7                   | 19.9                          | 21.2                     | 25.7                   | 25.7                   |
| ANT 3       | W-CDMA B4 Rel. 99       | 1.3             | -1.3 | 24.4                          | 25.7                     | 25.7                   | 24.4                          | 25.7                     | 25.7                   | 1.3             | -1.3 | 20.1                          | 21.4                     | 25.7                   | 19.3                          | 20.6                     | 25.7                   | 19.3                          | 20.6                     | 25.7                   | 25.7                   |
| ANT 3       | W-CDMA B4 HSDPA         | 1.3             | -1.3 | 24.4                          | 25.7                     | 25.7                   | 24.4                          | 25.7                     | 25.7                   | 1.3             | -1.3 | 20.1                          | 21.4                     | 25.7                   | 19.3                          | 20.6                     | 25.7                   | 19.3                          | 20.6                     | 25.7                   | 25.7                   |
| ANT 3       | W-CDMA B4 HSPA+         | 1.3             | -1.3 | 24.4                          | 25.7                     | 25.7                   | 24.4                          | 25.7                     | 25.7                   | 1.3             | -1.3 | 20.1                          | 21.4                     | 25.7                   | 19.3                          | 20.6                     | 25.7                   | 19.3                          | 20.6                     | 25.7                   | 25.7                   |
| ANT 3       | W-CDMA B5 Rel. 99       | 1.6             | -1.6 | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 1.6             | -1.6 | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | W-CDMA B5 HSDPA         | 1.6             | -1.6 | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 1.6             | -1.6 | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | W-CDMA B5 HSPA+         | 1.6             | -1.6 | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 1.6             | -1.6 | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | W-CDMA B5 HSPA+         | 1.6             | -1.6 | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 1.6             | -1.6 | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B2 PC3              | 1.3             | -1.3 | 24.4                          | 25.7                     | 25.7                   | 24.4                          | 25.7                     | 25.7                   | 1.3             | -1.3 | 21.1                          | 22.4                     | 25.7                   | 20.3                          | 21.6                     | 25.7                   | 20.3                          | 21.6                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B4 PC3              | 1.3             | -1.3 | 24.4                          | 25.7                     | 25.7                   | 24.4                          | 25.7                     | 25.7                   | 1.3             | -1.3 | 20.1                          | 21.4                     | 25.7                   | 19.3                          | 20.6                     | 25.7                   | 19.3                          | 20.6                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B5 PC3              | 1.6             | -1.6 | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 1.6             | -1.6 | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B7 PC3              | 1.7             | -1.7 | 24.0                          | 25.7                     | 25.7                   | 24.0                          | 25.7                     | 25.7                   | 1.7             | -1.7 | 19.1                          | 20.8                     | 25.7                   | 18.3                          | 20.0                     | 25.7                   | 18.3                          | 20.0                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B12 PC3             | 1.6             | -1.6 | 24.2                          | 25.7                     | 25.7                   | 24.2                          | 25.7                     | 25.7                   | 1.6             | -1.6 | 24.2                          | 25.7                     | 25.7                   | 24.2                          | 25.7                     | 25.7                   | 24.2                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B13 PC3             | 1.8             | -1.8 | 23.9                          | 25.7                     | 25.7                   | 23.9                          | 25.7                     | 25.7                   | 1.8             | -1.8 | 23.9                          | 25.7                     | 25.7                   | 23.9                          | 25.7                     | 25.7                   | 23.9                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B14 PC3             | 1.5             | -1.5 | 24.2                          | 25.7                     | 25.7                   | 24.2                          | 25.7                     | 25.7                   | 1.5             | -1.5 | 24.2                          | 25.7                     | 25.7                   | 24.2                          | 25.7                     | 25.7                   | 24.2                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B17 PC3             | 1.6             | -1.6 | 24.2                          | 25.7                     | 25.7                   | 24.2                          | 25.7                     | 25.7                   | 1.6             | -1.6 | 24.2                          | 25.7                     | 25.7                   | 24.2                          | 25.7                     | 25.7                   | 24.2                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B25 PC3             | 1.3             | -1.3 | 24.4                          | 25.7                     | 25.7                   | 24.4                          | 25.7                     | 25.7                   | 1.3             | -1.3 | 21.1                          | 22.4                     | 25.7                   | 20.3                          | 21.6                     | 25.7                   | 20.3                          | 21.6                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B26 PC3             | 1.6             | -1.6 | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 1.6             | -1.6 | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 24.1                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B30 PC3             | 1.4             | -1.4 | 23.5                          | 24.9                     | 24.9                   | 23.5                          | 24.9                     | 24.9                   | 1.4             | -1.4 | 21.3                          | 22.7                     | 24.9                   | 20.5                          | 21.9                     | 24.9                   | 20.5                          | 21.9                     | 24.9                   | 24.9                   |
| ANT 3       | LTE B41 PC3             | 1.4             | -1.4 | 24.3                          | 25.7                     | 25.7                   | 24.3                          | 25.7                     | 25.7                   | 1.4             | -1.4 | 21.8                          | 23.2                     | 25.7                   | 21.0                          | 22.4                     | 25.7                   | 21.0                          | 22.4                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B41 PC2             | 1.4             | -1.4 | 24.3                          | 25.7                     | 25.7                   | 24.3                          | 25.7                     | 25.7                   | 1.4             | -1.4 | 21.8                          | 23.2                     | 25.7                   | 21.0                          | 22.4                     | 25.7                   | 21.0                          | 22.4                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B53 PC3             | 1.5             | -1.5 | 19.2                          | 20.7                     | 20.7                   | 19.2                          | 20.7                     | 20.7                   | 1.5             | -1.5 | 19.2                          | 20.7                     | 20.7                   | 19.2                          | 20.7                     | 20.7                   | 19.2                          | 20.7                     | 20.7                   | 20.7                   |
| ANT 3       | LTE B66 PC3             | 1.3             | -1.3 | 24.4                          | 25.7                     | 25.7                   | 24.4                          | 25.7                     | 25.7                   | 1.3             | -1.3 | 20.1                          | 21.4                     | 25.7                   | 19.3                          | 20.6                     | 25.7                   | 19.3                          | 20.6                     | 25.7                   | 25.7                   |
| ANT 3       | LTE B71 PC3             | 1.6             | -1.6 | 24.2                          | 25.7                     | 25.7                   | 24.2                          | 25.7                     | 25.7                   | 1.6             | -1.6 | 24.2                          | 25.7                     | 25.7                   | 24.2                          | 25.7                     | 25.7                   | 24.2                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | LTE ULCA B5 PC3         | 1.6             | -1.6 | 24.1                          | 25.7                     | 26.0                   | 24.1                          | 25.7                     | 26.0                   | 1.6             | -1.6 | 24.1                          | 25.7                     | 26.0                   | 24.1                          | 25.7                     | 26.0                   | 24.1                          | 25.7                     | 26.0                   | 26.0                   |
| ANT 3       | LTE ULCA B7 PC3         | 1.7             | -1.7 | 24.0                          | 25.7                     | 26.0                   | 24.0                          | 25.7                     | 26.0                   | 1.7             | -1.7 | 19.1                          | 20.8                     | 26.0                   | 18.3                          | 20.0                     | 26.0                   | 18.3                          | 20.0                     | 26.0                   | 26.0                   |
| ANT 3       | LTE ULCA B41 PC3        | 1.4             | -1.4 | 24.3                          | 25.7                     | 26.0                   | 24.3                          | 25.7                     | 26.0                   | 1.4             | -1.4 | 21.8                          | 23.2                     | 26.0                   | 21.0                          | 22.4                     | 26.0                   | 21.0                          | 22.4                     | 26.0                   | 26.0                   |
| ANT 3       | LTE ULCA B41 PC2        | 1.4             | -1.4 | 27.3                          | 28.7                     | 28.7                   | 27.3                          | 28.7                     | 28.7                   | 1.4             | -1.4 | 23.8                          | 25.2                     | 28.7                   | 23.0                          | 24.4                     | 28.7                   | 23.0                          | 24.4                     | 28.7                   | 28.7                   |
| ANT 3       | FR1 n2 PC3              | 0.9             | -0.9 | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 0.9             | -0.9 | 21.5                          | 22.4                     | 25.7                   | 20.7                          | 21.6                     | 25.7                   | 20.7                          | 21.6                     | 25.7                   | 25.7                   |
| ANT 3       | FR1 n5 PC3              | 1.0             | -1.0 | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 1.0             | -1.0 | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | FR1 n7 PC3              | 1.0             | -1.0 | 24.7                          | 25.7                     | 25.7                   | 24.7                          | 25.7                     | 25.7                   | 1.0             | -1.0 | 19.9                          | 20.9                     | 25.7                   | 19.1                          | 20.1                     | 25.7                   | 19.1                          | 20.1                     | 25.7                   | 25.7                   |
| ANT 3       | FR1 n12 PC3             | 0.9             | -0.9 | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 0.9             | -0.9 | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | FR1 n14 PC3             | 0.9             | -0.9 | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 0.9             | -0.9 | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | FR1 n25 PC3             | 0.9             | -0.9 | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 0.9             | -0.9 | 21.5                          | 22.4                     | 25.7                   | 20.7                          | 21.6                     | 25.7                   | 20.7                          | 21.6                     | 25.7                   | 25.7                   |
| ANT 3       | FR1 n26 PC3             | 1.0             | -1.0 | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 1.0             | -1.0 | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | FR1 n30 PC3             | 0.9             | -0.9 | 24.0                          | 24.9                     | 24.9                   | 24.0                          | 24.9                     | 24.9                   | 0.9             | -0.9 | 21.8                          | 22.7                     | 24.9                   | 21.0                          | 21.9                     | 24.9                   | 21.0                          | 21.9                     | 24.9                   | 24.9                   |
| ANT 3       | FR1 n41 PC3             | 1.5             | -1.5 | 24.2                          | 25.7                     | 25.7                   | 24.2                          | 25.7                     | 25.7                   | 1.5             | -1.5 | 19.4                          | 20.9                     | 25.7                   | 18.6                          | 20.1                     | 25.7                   | 18.6                          | 20.1                     | 25.7                   | 25.7                   |
| ANT 3       | FR1 n41 PC2             | 1.5             | -1.5 | 27.2                          | 28.7                     | 28.7                   | 27.2                          | 28.7                     | 28.7                   | 1.5             | -1.5 | 22.4                          | 23.9                     | 28.7                   | 20.6                          | 22.1                     | 28.7                   | 20.6                          | 22.1                     | 28.7                   | 28.7                   |
| ANT 3       | FR1 n53 PC3             | 1.3             | -1.3 | 19.4                          | 20.7                     | 20.7                   | 19.4                          | 20.7                     | 20.7                   | 1.3             | -1.3 | 19.4                          | 20.7                     | 20.7                   | 19.4                          | 20.7                     | 20.7                   | 19.4                          | 20.7                     | 20.7                   | 20.7                   |
| ANT 3       | FR1 n66 PC3             | 0.7             | -0.7 | 25.0                          | 25.7                     | 25.7                   | 25.0                          | 25.7                     | 25.7                   | 0.7             | -0.7 | 20.7                          | 21.4                     | 25.7                   | 19.9                          | 20.6                     | 25.7                   | 19.9                          | 20.6                     | 25.7                   | 25.7                   |
| ANT 3       | FR1 n70 PC3             | 0.8             | -0.8 | 24.9                          | 25.7                     | 25.7                   | 24.9                          | 25.7                     | 25.7                   | 0.8             | -0.8 | 21.9                          | 22.7                     | 25.7                   | 21.1                          | 21.9                     | 25.7                   | 21.1                          | 21.9                     | 25.7                   | 25.7                   |
| ANT 3       | FR1 n71 PC3             | 0.9             | -0.9 | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 0.9             | -0.9 | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 24.8                          | 25.7                     | 25.7                   | 25.7                   |
| ANT 3       | MSS (L-Band)            | 1.1             | -1.1 | N/A                           | N/A                      | 24.7                   | N/A                           | N/A                      | 24.7                   | 1.1             | -1.1 | N/A                           | N/A                      | 24.7                   | N/A                           | N/A                      | 24.7                   | N/A                           | N/A                      | 24.7                   | 24.7                   |
| ANT 4       | GSM 1900 GMSK 1 Slot    | 1.7             | -1.7 | 27.8                          | 29.5                     | 29.5                   | 27.0                          | 28.7                     | 29.5                   | 1.7             | -1.7 | 27.8                          | 29.5                     | 29.5                   | 27.5                          | 29.2                     | 29.5                   | 27.5                          | 29.2                     | 29.5                   | 29.5                   |
| ANT 4       | GSM 1900 GMSK 2 Slot(s) | 1.7             | -1.7 | 26.3                          | 28.0                     | 28.5                   | 25.5                          | 27.2                     | 28.5                   | 1.7             | -1.7 | 25.3                          | 27.0                     | 28.5                   | 24.5                          | 26.2                     | 28.5                   | 24.5                          | 26.2                     | 28.5                   | 28.5                   |
| ANT 4       | GSM 1900 8PSK 1 Slot    | 1.7             | -1.7 | 22.3                          | 24.0                     | 24.0                   | 22.3                          | 24.0                     | 24.0                   | 1.7             | -1.7 | 22.3                          | 24.0                     | 24.0                   | 22.3                          | 24.0                     | 24.0                   | 22.3                          | 24.0                     | 24.0                   | 24.0                   |
| ANT 4       | GSM 1900 8PSK 2 Slot(s) | 1.7             | -1.7 | 21.3                          | 23.0                     | 23.0                   | 21.3                          | 23.0                     | 23.0                   | 1.7             | -1.7 | 21.3                          | 23.0                     | 23.0                   | 21.3                          | 23.0                     | 23.0                   | 21.3                          | 23.0                     | 23.0                   | 23.0</                 |

| Transmitter | Technology            | DSI 0 (Head)   |                |                                  |                          |                        |                                  |                          |                        |                | DSI 1: (Body & Extremity) |                                  |                          |                        |                                  |                          |                        |                |                |
|-------------|-----------------------|----------------|----------------|----------------------------------|--------------------------|------------------------|----------------------------------|--------------------------|------------------------|----------------|---------------------------|----------------------------------|--------------------------|------------------------|----------------------------------|--------------------------|------------------------|----------------|----------------|
|             |                       | Uncert.<br>(+) | Uncert.<br>(-) | Cell PS1 + Connectivity PS5/6    |                          |                        | Cell PS2 + Connectivity PS3/4    |                          |                        | Uncert.<br>(+) | Uncert.<br>(-)            | Cell PS1 + Connectivity PS5/6    |                          |                        | Cell PS2 + Connectivity PS3/4    |                          |                        | Uncert.<br>(+) | Uncert.<br>(-) |
|             |                       |                |                | P <sub>Limit, nom</sub><br>(dBm) | P <sub>Limit</sub> (dBm) | P <sub>Max</sub> (dBm) | P <sub>Limit, nom</sub><br>(dBm) | P <sub>Limit</sub> (dBm) | P <sub>Max</sub> (dBm) |                |                           | P <sub>Limit, nom</sub><br>(dBm) | P <sub>Limit</sub> (dBm) | P <sub>Max</sub> (dBm) | P <sub>Limit, nom</sub><br>(dBm) | P <sub>Limit</sub> (dBm) | P <sub>Max</sub> (dBm) |                |                |
| ANT 7       | LTE B48 PC3           | 1.5            | -1.5           | 24.5                             | 26.0                     | 26.0                   | 24.5                             | 26.0                     | 26.0                   | 1.5            | -1.5                      | 22.0                             | 23.5                     | 26.0                   | 21.2                             | 22.7                     | 26.0                   |                |                |
| ANT 7       | LTE ULCA B48 PC3      | 1.5            | -1.5           | 24.5                             | 26.0                     | 26.0                   | 24.5                             | 26.0                     | 26.0                   | 1.5            | -1.5                      | 22.0                             | 23.5                     | 26.0                   | 21.2                             | 22.7                     | 26.0                   |                |                |
| ANT 7       | FR1 n48 PC3           | 1.5            | -1.5           | 24.5                             | 26.0                     | 26.0                   | 24.5                             | 26.0                     | 26.0                   | 1.5            | -1.5                      | 20.2                             | 21.7                     | 26.0                   | 19.4                             | 20.9                     | 26.0                   |                |                |
| ANT 7       | FR1 n77 (Block A) PC3 | 2.5            | -2.5           | 23.5                             | 26.0                     | 26.0                   | 23.5                             | 26.0                     | 26.0                   | 2.5            | -2.5                      | 19.5                             | 22.0                     | 26.0                   | 18.7                             | 21.2                     | 26.0                   |                |                |
| ANT 7       | FR1 n77 (Block A) PC2 | 2.5            | -2.5           | 26.2                             | 28.7                     | 28.7                   | 26.2                             | 28.7                     | 28.7                   | 2.5            | -2.5                      | 22.5                             | 25.0                     | 28.7                   | 21.7                             | 24.2                     | 28.7                   |                |                |
| ANT 7       | FR1 n77 (Block C) PC3 | 2.5            | -2.5           | 23.5                             | 26.0                     | 26.0                   | 23.5                             | 26.0                     | 26.0                   | 2.5            | -2.5                      | 19.5                             | 22.0                     | 26.0                   | 18.7                             | 21.2                     | 26.0                   |                |                |
| ANT 7       | FR1 n77 (Block C) PC2 | 2.5            | -2.5           | 26.2                             | 28.7                     | 28.7                   | 26.2                             | 28.7                     | 28.7                   | 2.5            | -2.5                      | 22.5                             | 25.0                     | 28.7                   | 21.7                             | 24.2                     | 28.7                   |                |                |
| ANT 8       | LTE B48 PC3           | 1.4            | -1.4           | 22.3                             | 23.7                     | 24.5                   | 21.5                             | 22.9                     | 24.5                   | 1.4            | -1.4                      | 18.1                             | 19.5                     | 24.5                   | 17.3                             | 18.7                     | 24.5                   |                |                |
| ANT 8       | LTE ULCA B48 PC3      | 1.4            | -1.4           | 22.3                             | 23.7                     | 24.5                   | 21.5                             | 22.9                     | 24.5                   | 1.4            | -1.4                      | 18.1                             | 19.5                     | 24.5                   | 17.3                             | 18.7                     | 24.5                   |                |                |
| ANT 8       | FR1 n48 PC3           | 1.5            | -1.5           | 22.2                             | 23.7                     | 24.5                   | 21.4                             | 22.9                     | 24.5                   | 1.5            | -1.5                      | 16.0                             | 17.5                     | 24.5                   | 15.2                             | 16.7                     | 24.5                   |                |                |
| ANT 8       | FR1 n77 (Block A) PC3 | 1.8            | -1.8           | 21.3                             | 23.0                     | 26.0                   | 20.5                             | 22.2                     | 26.0                   | 1.8            | -1.8                      | 16.7                             | 18.4                     | 26.0                   | 15.9                             | 17.6                     | 26.0                   |                |                |
| ANT 8       | FR1 n77 (Block A) PC2 | 1.8            | -1.8           | 24.3                             | 26.0                     | 28.7                   | 23.5                             | 25.2                     | 28.7                   | 1.8            | -1.8                      | 19.7                             | 21.4                     | 28.7                   | 18.9                             | 20.6                     | 28.7                   |                |                |
| ANT 8       | FR1 n77 (Block C) PC3 | 1.8            | -1.8           | 21.3                             | 23.0                     | 26.0                   | 20.5                             | 22.2                     | 26.0                   | 1.8            | -1.8                      | 16.7                             | 18.4                     | 26.0                   | 15.9                             | 17.6                     | 26.0                   |                |                |
| ANT 8       | FR1 n77 (Block C) PC2 | 1.8            | -1.8           | 24.3                             | 26.0                     | 28.7                   | 23.5                             | 25.2                     | 28.7                   | 1.8            | -1.8                      | 19.7                             | 21.4                     | 28.7                   | 18.9                             | 20.6                     | 28.7                   |                |                |
| ANT 9       | LTE B48 PC3           | 1.4            | -1.4           | 22.9                             | 24.3                     | 24.3                   | 22.9                             | 24.3                     | 24.3                   | 1.4            | -1.4                      | 20.7                             | 22.1                     | 24.3                   | 19.9                             | 21.3                     | 24.3                   |                |                |
| ANT 9       | LTE ULCA B48 PC3      | 1.4            | -1.4           | 22.9                             | 24.3                     | 24.3                   | 22.9                             | 24.3                     | 24.3                   | 1.4            | -1.4                      | 20.7                             | 22.1                     | 24.3                   | 19.9                             | 21.3                     | 24.3                   |                |                |
| ANT 9       | FR1 n48 PC3           | 1.3            | -1.3           | 23.0                             | 24.3                     | 24.3                   | 23.0                             | 24.3                     | 24.3                   | 1.3            | -1.3                      | 19.1                             | 20.4                     | 24.3                   | 18.3                             | 19.6                     | 24.3                   |                |                |
| ANT 9       | FR1 n77 (Block A) PC3 | 1.5            | -1.5           | 24.5                             | 26.0                     | 26.0                   | 24.5                             | 26.0                     | 26.0                   | 1.5            | -1.5                      | 18.4                             | 19.9                     | 26.0                   | 17.6                             | 19.1                     | 26.0                   |                |                |
| ANT 9       | FR1 n77 (Block A) PC2 | 1.5            | -1.5           | 27.2                             | 28.7                     | 28.7                   | 27.2                             | 28.7                     | 28.7                   | 1.5            | -1.5                      | 21.4                             | 22.9                     | 28.7                   | 20.6                             | 22.1                     | 28.7                   |                |                |
| ANT 9       | FR1 n77 (Block C) PC3 | 1.5            | -1.5           | 24.5                             | 26.0                     | 26.0                   | 24.5                             | 26.0                     | 26.0                   | 1.5            | -1.5                      | 18.4                             | 19.9                     | 26.0                   | 17.6                             | 19.1                     | 26.0                   |                |                |
| ANT 9       | FR1 n77 (Block C) PC2 | 1.5            | -1.5           | 27.2                             | 28.7                     | 28.7                   | 27.2                             | 28.7                     | 28.7                   | 1.5            | -1.5                      | 21.4                             | 22.9                     | 28.7                   | 20.6                             | 22.1                     | 28.7                   |                |                |

Therefore, for this EUT, SAR and conducted power measurements at  $P_{limit}$  will be the same as those performed at  $P_{max}$ . SAR measured at  $P_{max}$  can be leveraged in this section to avoid re-testing. The worst-case reported SAR values for Sub-6 GHz are listed in §4.4 of the TAS Part 0 report and the worst-case reported WLAN SAR results are listed in Table 6-2 and Table 6-5.

**Table 6-2: Worst-case reported WLAN SAR (Power State 5)**

| Technology             | ANT   |                |         |           | Reported 1-g SAR (W/kg) |                |         |           | $P_{max}$ |                |         |           |
|------------------------|-------|----------------|---------|-----------|-------------------------|----------------|---------|-----------|-----------|----------------|---------|-----------|
|                        | Head  | Body & Hotspot | Hotspot | Extremity | Head                    | Body & Hotspot | Hotspot | Extremity | Head      | Body & Hotspot | Hotspot | Extremity |
| Wi-Fi 2.4 GHz          | ANT 2 | ANT 2          | ANT 1   | N/A       | 0.381                   | 0.372          | 0.383   | N/A       | 16.00     | 17.00          | 17.75   | N/A       |
| Wi-Fi 5.2 GHz          | N/A   | ANT 5          | N/A     | N/A       | N/A                     | 0.266          | N/A     | N/A       | N/A       | 16.50          | N/A     | N/A       |
| Wi-Fi 5.3 GHz          | N/A   | ANT 6          | N/A     | N/A       | N/A                     | 0.396          | N/A     | N/A       | N/A       | 12.75          | N/A     | N/A       |
| Wi-Fi 5.5 GHz          | N/A   | ANT 5          | ANT 5   | N/A       | N/A                     | 0.397          | 0.007   | N/A       | N/A       | 14.50          | 14.50   | N/A       |
| Wi-Fi 5.8 GHz          | N/A   | ANT 5          | N/A     | N/A       | N/A                     | 0.395          | N/A     | N/A       | N/A       | 15.50          | N/A     | N/A       |
| U-NII 5                | ANT 5 | ANT 6          | N/A     | N/A       | 0.002                   | 0.222          | N/A     | N/A       | 11.00     | 7.00           | N/A     | N/A       |
| U-NII 6                | ANT 6 | ANT 6          | N/A     | N/A       | 0.000                   | 0.160          | N/A     | N/A       | 7.00      | 7.00           | N/A     | N/A       |
| U-NII 7                | ANT 5 | ANT 6          | N/A     | N/A       | 0.000                   | 0.169          | N/A     | N/A       | 12.00     | 7.00           | N/A     | N/A       |
| U-NII 8                | ANT 5 | ANT 6          | N/A     | N/A       | 0.000                   | 0.305          | N/A     | N/A       | 12.25     | 8.00           | N/A     | N/A       |
| Bluetooth (2.4 GHz)    | ANT 2 | ANT 2          | ANT 1   | N/A       | 0.310                   | 0.390          | 0.385   | N/A       | 15.25     | 16.75          | 18.75   | N/A       |
| Bluetooth (NB U-NII 1) | ANT 5 | ANT 6          | ANT 5   | N/A       | 0.000                   | 0.353          | 0.000   | N/A       | 14.50     | 14.00          | 14.50   | N/A       |
| Bluetooth (NB U-NII 3) | N/A   | ANT 5          | N/A     | N/A       | N/A                     | 0.378          | N/A     | N/A       | N/A       | 16.00          | N/A     | N/A       |
| Bluetooth (NB U-NII 5) | ANT 6 | ANT 5          | ANT 5   | N/A       | 0.006                   | 0.037          | 0.006   | N/A       | -1.90     | 7.10           | 7.10    | N/A       |
| 802.15.4               | ANT 2 | ANT 1          | ANT 1   | N/A       | 0.324                   | 0.357          | 0.392   | N/A       | 15.75     | 18.25          | 18.25   | N/A       |
| 802.15.4ab             | N/A   | N/A            | N/A     | N/A       | N/A                     | N/A            | N/A     | N/A       | N/A       | N/A            | N/A     | N/A       |

**Table 6-3: Worst-case reported WLAN SAR (Power State 6)**

| Technology             | ANT   |                |         |           | Reported 1-g SAR (W/kg) |                |         |           | $P_{max}$ |                |         |           |
|------------------------|-------|----------------|---------|-----------|-------------------------|----------------|---------|-----------|-----------|----------------|---------|-----------|
|                        | Head  | Body & Hotspot | Hotspot | Extremity | Head                    | Body & Hotspot | Hotspot | Extremity | Head      | Body & Hotspot | Hotspot | Extremity |
| Wi-Fi 2.4 GHz          | ANT 2 | ANT 2          | ANT 1   | N/A       | 0.285                   | 0.279          | 0.287   | N/A       | 14.75     | 15.75          | 16.50   | N/A       |
| Wi-Fi 5.2 GHz          | N/A   | ANT 5          | N/A     | N/A       | N/A                     | 0.200          | N/A     | N/A       | N/A       | 15.25          | N/A     | N/A       |
| Wi-Fi 5.3 GHz          | N/A   | ANT 6          | N/A     | N/A       | N/A                     | 0.297          | N/A     | N/A       | N/A       | 11.50          | N/A     | N/A       |
| Wi-Fi 5.5 GHz          | N/A   | ANT 5          | ANT 5   | N/A       | N/A                     | 0.298          | 0.005   | N/A       | N/A       | 13.25          | 13.25   | N/A       |
| Wi-Fi 5.8 GHz          | N/A   | ANT 5          | N/A     | N/A       | N/A                     | 0.297          | N/A     | N/A       | N/A       | 14.25          | N/A     | N/A       |
| U-NII 5                | ANT 5 | ANT 6          | N/A     | N/A       | 0.001                   | 0.167          | N/A     | N/A       | 9.75      | 5.75           | N/A     | N/A       |
| U-NII 6                | ANT 6 | ANT 6          | N/A     | N/A       | 0.000                   | 0.120          | N/A     | N/A       | 5.75      | 5.75           | N/A     | N/A       |
| U-NII 7                | ANT 5 | ANT 6          | N/A     | N/A       | 0.000                   | 0.127          | N/A     | N/A       | 10.75     | 5.75           | N/A     | N/A       |
| U-NII 8                | ANT 5 | ANT 6          | N/A     | N/A       | 0.000                   | 0.229          | N/A     | N/A       | 11.00     | 6.75           | N/A     | N/A       |
| Bluetooth (2.4 GHz)    | ANT 2 | ANT 2          | ANT 1   | N/A       | 0.232                   | 0.292          | 0.289   | N/A       | 14.00     | 15.50          | 17.50   | N/A       |
| Bluetooth (NB U-NII 1) | ANT 5 | ANT 6          | ANT 5   | N/A       | 0.000                   | 0.353          | 0.000   | N/A       | 14.50     | 14.00          | 14.50   | N/A       |
| Bluetooth (NB U-NII 3) | N/A   | ANT 5          | N/A     | N/A       | N/A                     | 0.284          | N/A     | N/A       | N/A       | 14.75          | N/A     | N/A       |
| Bluetooth (NB U-NII 5) | ANT 6 | ANT 5          | ANT 5   | N/A       | 0.006                   | 0.037          | 0.006   | N/A       | -1.90     | 7.10           | 7.10    | N/A       |
| 802.15.4               | ANT 2 | ANT 1          | ANT 1   | N/A       | 0.243                   | 0.268          | 0.294   | N/A       | 14.50     | 17.00          | 17.00   | N/A       |
| 802.15.4ab             | N/A   | N/A            | N/A     | N/A       | N/A                     | N/A            | N/A     | N/A       | N/A       | N/A            | N/A     | N/A       |

Note that WLAN SAR for each of the bands in the above table lists the worst-case SAR out of both WLAN antennas and WLAN MIMO.

## 6.2. PD Measurement Results at $P_{limit}$

Tables 5-1 to 5-3 list the beams selected for PD verification test for this EUT and Tables 6-4 to 6-6 list the corresponding PD measurement results at 2 mm spacing. Qualcomm's Smart Transmit algorithm operates based on time-averaged transmit power reported on a per symbol basis, which is independent of modulation, channel, and bandwidth (RBs). Therefore, PD measurements in Tables 6-4 to 6-6 were conducted with the EUT in *Factory Test Mode* (FTM), with CW modulation and on the worst-case channel determined through simulations (See Appendix B of the TAS Part 0 report), with the EUT transmitting at  $P_{limit}$  (listed in Table 5-7 of the TAS Part 0 report) corresponding to the tested beams.

All 4cm<sup>2</sup> PD values for the selected beams are listed in Tables 5-1 to 5-3. In addition to these selected beams, 4cm<sup>2</sup> PD for a few more beams were used in the TAS Part 2 report.

**Table 6-4: PD Measurement results n258**

| Module/Antenna | Frequency |       | Beam ID1 | Beam ID2 | P <sub>limit</sub> | CC | BW  | Modulation | RB | Signal Type | Eval. Distance | DUT Surface | Power Drift<br>dB | Normal psPD<br>W/m <sup>2</sup> | Total psPD<br>W/m <sup>2</sup> |
|----------------|-----------|-------|----------|----------|--------------------|----|-----|------------|----|-------------|----------------|-------------|-------------------|---------------------------------|--------------------------------|
|                | MHz       | Ch.   | V        | H        | dBm                | #  | MHz |            | #  |             |                |             |                   |                                 |                                |
| M1             | Low       | 24350 | 12       |          | -0.2               | 1  | 100 | QPSK       | 1  | CW          | 2mm            | Top         | -0.02             | 1.880                           | 2.850                          |
|                | High      | 25200 |          | 274      | 0                  | 1  | 100 | QPSK       | 33 | CW          | 2mm            | Top         | -0.08             | 2.950                           | <b>3.980</b>                   |
|                | High      | 25200 | 19       | 275      | -4.2               | 1  | 100 | QPSK       | 1  | CW          | 2mm            | Top         | -0.06             | 2.080                           | 3.110                          |
|                | Low       | 24350 |          | 274      | 0                  | 1  | 100 | QPSK       | 33 | CW          | 2mm            | Left        | 4.98              | 0.090                           | 0.012                          |
|                | Low       | 24350 |          | 274      | 0                  | 1  | 100 | QPSK       | 33 | CW          | 2mm            | Right       | 0.49              | 0.048                           | 0.051                          |

**Table 6-5: PD Measurement results n260**

| Module/Antenna | Frequency |       | Beam ID1 | Beam ID2 | P <sub>limit</sub> | CC | BW  | Modulation | RB | Signal Type | Eval. Distance | DUT Surface | Power Drift<br>dB | Normal psPD<br>W/m <sup>2</sup> | Total psPD<br>W/m <sup>2</sup> |
|----------------|-----------|-------|----------|----------|--------------------|----|-----|------------|----|-------------|----------------|-------------|-------------------|---------------------------------|--------------------------------|
|                | MHz       | Ch.   | V        | H        | dBm                | #  | MHz |            | #  |             |                |             |                   |                                 |                                |
| M1             | Mid       | 38500 | 19       |          | 0.8                | 1  | 100 | QPSK       | 1  | CW          | 2mm            | Top         | -0.03             | 0.930                           | 1.350                          |
|                | High      | 39950 |          | 269      | 0                  | 1  | 50  | QPSK       | 66 | CW          | 2mm            | Top         | 0.10              | 2.940                           | <b>3.470</b>                   |
|                | Mid       | 38500 | 19       | 275      | -4.1               | 1  | 100 | QPSK       | 1  | CW          | 2mm            | Top         | 0.03              | 0.580                           | 0.898                          |
|                | High      | 39950 |          | 269      | 0                  | 1  | 50  | QPSK       | 66 | CW          | 2mm            | Left        | 0.00              | 0.012                           | 0.014                          |
|                | High      | 39950 |          | 269      | 0                  | 1  | 50  | QPSK       | 66 | CW          | 2mm            | Right       | -1.36             | 0.052                           | 0.053                          |

**Table 6-6: PD Measurement results n261**

| Module/Antenna | Frequency |       | Beam ID1 | Beam ID2 | P <sub>limit</sub> | CC | BW  | Modulation | RB | Signal Type | Eval. Distance | DUT Surface | Power Drift<br>dB | Normal psPD<br>W/m <sup>2</sup> | Total psPD<br>W/m <sup>2</sup> |
|----------------|-----------|-------|----------|----------|--------------------|----|-----|------------|----|-------------|----------------|-------------|-------------------|---------------------------------|--------------------------------|
|                | MHz       | Ch.   | V        | H        | dBm                | #  | MHz |            | #  |             |                |             |                   |                                 |                                |
| M1             | Low       | 27550 | 11       |          | -1.9               | 1  | 100 | QPSK       | 1  | CW          | 2mm            | Top         | -0.15             | 1.230                           | 2.230                          |
|                | Mid       | 27925 |          | 272      | -1.3               | 1  | 100 | QPSK       | 66 | CW          | 2mm            | Top         | 0.00              | 2.200                           | <b>3.670</b>                   |
|                | High      | 28300 | 15       | 271      | -5.4               | 1  | 100 | QPSK       | 1  | CW          | 2mm            | Top         | -0.01             | 1.900                           | 3.080                          |
|                | Mid       | 27925 |          | 272      | -1.3               | 1  | 100 | QPSK       | 66 | CW          | 2mm            | Left        | -8.34             | 0.034                           | 0.037                          |
|                | Mid       | 27925 |          | 272      | -1.3               | 1  | 100 | QPSK       | 66 | CW          | 2mm            | Right       | 9.97              | 0.016                           | 0.018                          |

The PD distribution plots for both point PD and 4cm<sup>2</sup> avg PD for the highest PD configuration in Tables 6-4 to 6-6 are given below.

Custom Band: CW, EDGE TOP

Exposure Conditions

|                                  |                    |                               |                 |
|----------------------------------|--------------------|-------------------------------|-----------------|
| Band                             | Custom Band        | Phantom Section               | 5G              |
| Frequency [MHz]   Channel Number | 24350.0   24350000 | Conversion Factor             | 1.0             |
| Group   UID                      | CW, 0--            | Position   Test Distance [mm] | EDGE TOP   2.00 |

Hardware Setup

|                          |                                        |         |               |
|--------------------------|----------------------------------------|---------|---------------|
| Probe   Calibration Date | EUmmWV4 - SN9493_F1-55GHz   2025-01-13 | Phantom | mmWave   xxxx |
| DAE   Calibration Date   | DAE4 Sn1716   2025-03-11               | Medium  | Air   -       |
| Software Version         | 3.2.0.1840                             |         |               |

Scan Setup

|                     |                                         |                     |             |
|---------------------|-----------------------------------------|---------------------|-------------|
| Scan Type           | 5G Scan                                 | Grid Extents [mm]   | 25.0 x 25.0 |
| Grid Steps [lambda] | 0.1657954629531585 x 0.1657954629531585 | Sensor Surface [mm] | 2.0         |

Measurement Results

|                        |       |
|------------------------|-------|
| Avg. Area [cm²]        | 4.00  |
| psPDn+ [W/m²]          | 2.95  |
| psPDtot+ [W/m²]        | 3.98  |
| psPDmod+ [W/m²]        | 4.43  |
| E <sub>max</sub> [V/m] | 94.9  |
| H <sub>max</sub> [A/m] | 0.282 |
| Power Drift [dB]       | -0.08 |

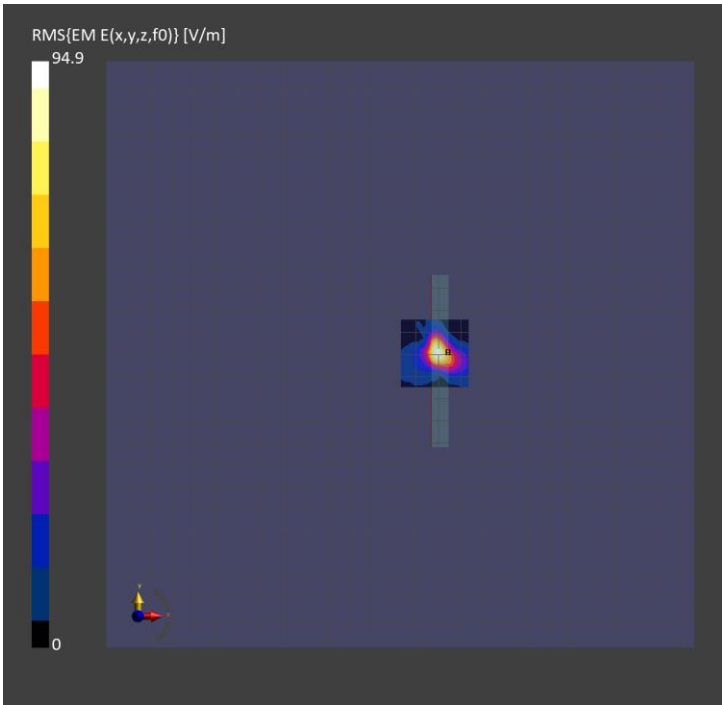


Figure 6-1: Band n258, Beam ID 274, point PD and 4cm² PD, Top

Custom Band: CW, EDGE TOP

Exposure Conditions

|                                  |                    |                               |                 |
|----------------------------------|--------------------|-------------------------------|-----------------|
| Band                             | Custom Band        | Phantom Section               | 5G              |
| Frequency [MHz]   Channel Number | 39950.0   39950000 | Conversion Factor             | 1.0             |
| Group   UID                      | CW, 0--            | Position   Test Distance [mm] | EDGE TOP   2.00 |

Hardware Setup

|                          |                                        |         |               |
|--------------------------|----------------------------------------|---------|---------------|
| Probe   Calibration Date | EUmmWV4 - SN9493_F1-55GHz   2025-01-13 | Phantom | mmWave   xxxx |
| DAE   Calibration Date   | DAE4 Sn1716   2025-03-11               | Medium  | Air   -       |
| Software Version         | 3.2.2.2358                             |         |               |

Scan Setup

|                     |             |                     |             |
|---------------------|-------------|---------------------|-------------|
| Scan Type           | 5G Scan     | Grid Extents [mm]   | 25.0 x 25.0 |
| Grid Steps [lambda] | 0.25 x 0.25 | Sensor Surface [mm] | 2.0         |

Measurement Results

|                        |       |
|------------------------|-------|
| Avg. Area [cm²]        | 4.00  |
| psPDn+ [W/m²]          | 2.94  |
| psPDtot+ [W/m²]        | 3.47  |
| psPDmod+ [W/m²]        | 3.65  |
| E <sub>max</sub> [V/m] | 93.3  |
| H <sub>max</sub> [A/m] | 0.258 |
| Power Drift [dB]       | 0.10  |

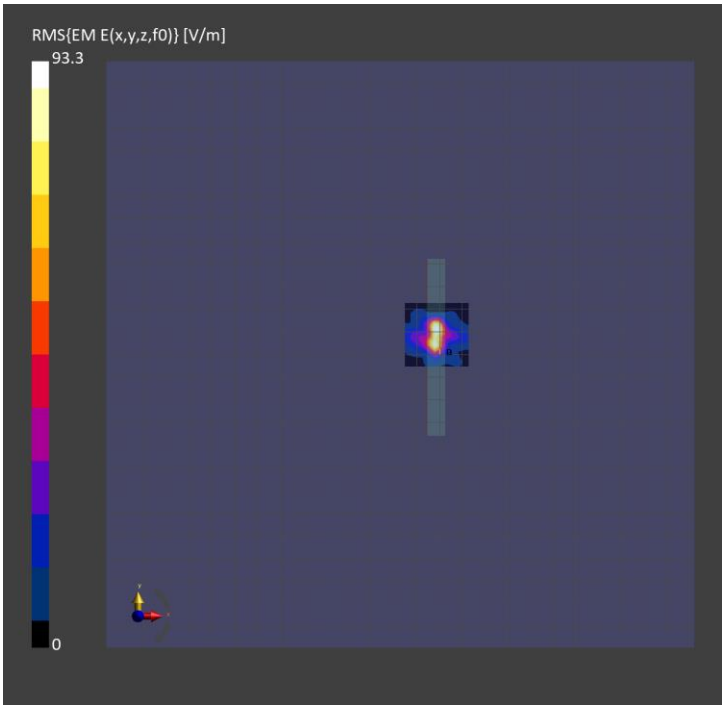


Figure 6-2: Band n260, Beam ID 269, point PD and 4cm² PD, Back

Custom Band: CW, EDGE TOP

Exposure Conditions

|                                  |                    |                               |                 |
|----------------------------------|--------------------|-------------------------------|-----------------|
| Band                             | Custom Band        | Phantom Section               | 5G              |
| Frequency [MHz]   Channel Number | 27925.0   27925000 | Conversion Factor             | 1.0             |
| Group   UID                      | CW, 0--            | Position   Test Distance [mm] | EDGE TOP   2.00 |

Hardware Setup

|                          |                                        |         |               |
|--------------------------|----------------------------------------|---------|---------------|
| Probe   Calibration Date | EUmmWV4 - SN9493_F1-55GHz   2025-01-13 | Phantom | mmWave   xxxx |
| DAE   Calibration Date   | DAE4 Sn1716   2025-03-11               | Medium  | Air   -       |
| Software Version         | 3.2.2.2358                             |         |               |

Scan Setup

|                     |                                         |                     |             |
|---------------------|-----------------------------------------|---------------------|-------------|
| Scan Type           | 5G Scan                                 | Grid Extents [mm]   | 25.0 x 25.0 |
| Grid Steps [lambda] | 0.1901370966310863 x 0.1901370966310863 | Sensor Surface [mm] | 2.0         |

Measurement Results

|                        |       |
|------------------------|-------|
| Avg. Area [cm²]        | 4.00  |
| psPDn+ [W/m²]          | 2.20  |
| psPDtot+ [W/m²]        | 3.67  |
| psPDmod+ [W/m²]        | 4.34  |
| E <sub>max</sub> [V/m] | 131   |
| H <sub>max</sub> [A/m] | 0.364 |
| Power Drift [dB]       | -0.00 |

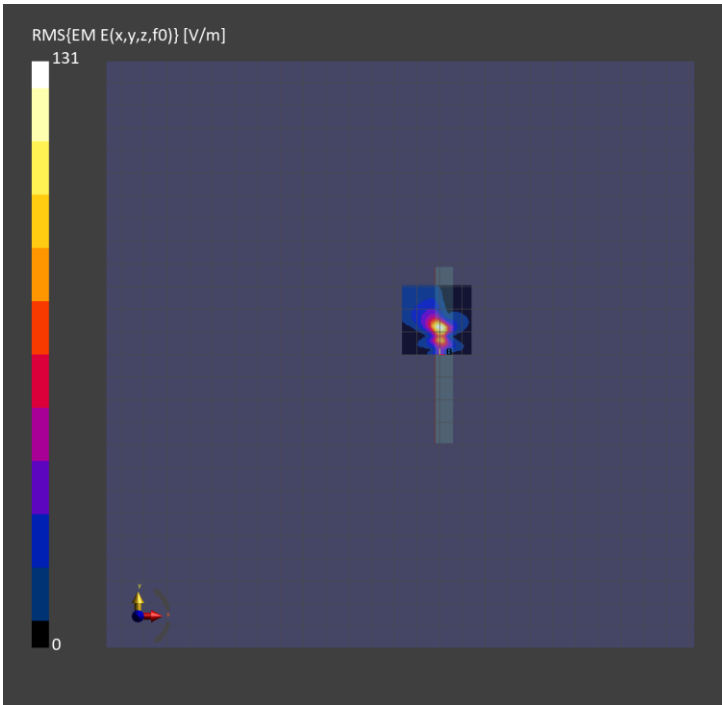


Figure 6-3: Band n261, Beam ID 272, point PD and 4cm² PD, Back

### 6.3. Simultaneous Transmission Analysis

The EUT supports simultaneous transmission of multiple radios. RF exposure compliance in simultaneous transmission scenarios is evaluated in this section.

It must be noted here that Qualcomm's Smart Transmit time-averaging algorithm was applied to only WWAN (Sub-6GHz/5G millimeter wave NR) on this device, where the time-averaged power level is controlled so that the RF exposure is  $\leq \text{SAR}_{\text{Design Target}}$  (corresponding to  $P_{\text{limit}}$ ) for Sub-6 GHz WWAN and  $\leq \text{PD}_{\text{Design Target}}$  (corresponding to  $P_{\text{limit}}$ ) for 5G millimeter wave NR. Since there is total design-related uncertainty arising from TxAGC and device-to-device variation, the worst-case RF exposure should be determined by accounting for this uncertainty in the corresponding design target, listed in Table 6-7.

**Table 6-7: Worst-case time-averaged RF exposure for WWAN**

| Scenario                                        | WWAN                                         |                                     |
|-------------------------------------------------|----------------------------------------------|-------------------------------------|
|                                                 | Sub-6 GHz WWAN                               | 5G mmW NR                           |
| Maximum time-averaged power level               | $P_{\text{limit}}$                           |                                     |
| Maximum time-averaged exposure (Design Targets) | 1.19 W/kg (1-g SAR)                          | 4 W/m <sup>2</sup>                  |
| Worst-case time-averaged RF exposure            | Reported SAR $\dagger$ = 1.19 W/kg (1-g SAR) | Reported PD = 3.98 W/m <sup>2</sup> |

$\dagger$ : For this EUT,  $(P_{\text{limit}} + \text{dB uncertainty}) \geq P_{\text{max}}$  (maximum RF tune-up output power). Therefore, time-averaged SAR exposure from Smart Transmit enabled EUT (at  $P_{\text{limit}}$ ) cannot exceed the reported SAR corresponding to  $P_{\text{max}}$  listed in the referenced SAR report found in §1.

WLAN does not employ Qualcomm's Smart Transmit time-averaging feature in this device, reported 1-g SAR at the maximum RF tune-up output power is listed in Table 6-2 and Table 6-3.

#### 6.3.1. Analysis

RF exposure compliance with WWAN+WLAN simultaneous transmission scenarios is demonstrated for various radio configurations using the equation below:

Total norm. RF exposure = norm. RF exposure from Smart Transmit enabled WWAN (norm. SAR from Sub-6 GHz + norm. PD from 5G millimeter wave NR) + norm. SAR from WLAN  $\leq$  1.0 normalized limit (1)

Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from Sub-6 GHz WWAN and time-averaged RF exposure from 5G millimeter wave NR, i.e.,

norm. RF exposure from Smart Transmit enabled WWAN: (normalized SAR exposure from Sub-6 GHz) + (normalized PD exposure from 5G millimeter wave NR)  $\leq$  1.0 normalized limit (2)

In other words, Smart Transmit algorithm controls the total RF exposure from both Sub-6 GHz radio and 5G millimeter wave NR to not exceed the FCC limit. Smart transmit algorithm assumes hotspots are collocated (i.e., ignoring spatial distribution of hotspots) and directly adds normalized RF exposures from Sub-6 GHz WWAN and from 5G millimeter wave NR, i.e.,

If A = max normalized time-averaged SAR exposure from 4G,  
B = max normalized time-averaged PD exposure from 5G millimeter wave NR,

Then, equation (2) can be re-written as below because Smart Transmit assumes Sub-6 GHz WWAN hotspots are collocated with 5G millimeter wave NR hotspot:

Smart Transmit enabled WWAN:  $x(t) * A + (1-x(t)) * B \leq$  1.0 normalized limit (3)

Here, " $x(t)*A$ " represents percentage of normalized time-averaged RF exposure from Sub-6 GHz WWAN, and  $x(t)$  ranges between  $[0,1]$ ; " $(1-x(t))*B$ " is remaining percentage of RF exposure contribution from 5G millimeter wave NR. Smart Transmit controls ' $x$ ' in real time such that the sum of these exposures never exceeds the 1.0 normalized limit.

Note that mathematically:

$$x(t) * A + (1 - x(t)) * B \leq \max(A, B) \leq 1.0 \text{ normalized limit for } x(t) \in [0,1] \quad (4)$$

Therefore, if equations (5a) and (5b) are proven:

$$A + \text{norm. SAR from WLAN} \leq 1.0 \text{ norm. limit} \quad (5a),$$

$$B + \text{norm. SAR from WLAN} \leq 1.0 \text{ norm. limit} \quad (5b),$$

Then, based on equation (4), the condition below is also proved:

$$[x(t) * A + (1 - x(t)) * B] + \text{norm. SAR from WLAN} \leq 1.0 \text{ norm. limit} \quad (5c)$$

which is the same as equation (1), as a means to demonstrate compliance for simultaneous transmission.

Additionally, it should be noted that in the absence of 5G millimeter wave NR, Smart Transmit limits the maximum RF exposure contributed from Sub-6 GHz WWAN to 100% normalized exposure (i.e.,  $x=1.0$  in equation 3), while with 5G millimeter wave NR active, Smart Transmit limits the maximum RF exposure contributed from 5G millimeter wave NR to 75% normalized exposure to guarantee at least 25% margin allocated to the Sub-6 GHz WWAN anchor to maintain the link (i.e.,  $x=0.25$  in equation 3). Therefore:

$$\text{Smart Transmit enabled WWAN: } A = \max(\text{normalized SAR exposure from 4G}) \leq 1.0 \text{ normalized limit} \quad (6a)$$

$$\text{Smart Transmit enabled WWAN: } B = \max(\text{normalized PD exposure from 5G millimeter wave NR}) \leq 0.75 \text{ normalized limit} \quad (6b)$$

Thus, for compliance demonstration given by equation (1), equation (7) is obtained by combining equations (5a & 5b) and (6a & 6b) and should be proven to guarantee simultaneous transmission compliance:

$$\text{Total normalized RF exposure} = \text{norm. SAR from 4G WWAN} + \text{norm. SAR from WLAN} < 1.0 \text{ normalized FCC limit} \quad (7a)$$

$$\text{Total normalized RF exposure} = 0.75 * \text{norm. PD from 5G millimeter wave NR WWAN} + \text{norm. SAR from WLAN} < 1.0 \text{ normalized FCC limit} \quad (7b)$$

The compliance for simultaneous transmission scenarios of WWAN (Sub-6 GHz/5G millimeter wave NR) radio enabled with Smart Transmit and WLAN without Smart Transmit is re-evaluated for all transmission scenarios supported by this EUT.

As described in equation (7), simultaneous transmission analysis for WWAN + WLAN is performed in two parts:

1. Sub-6 GHz WWAN + WLAN (i.e., Eq. (7a) with compliance demonstration in §5.3.2)
2. 5G millimeter wave NR WWAN + WLAN (i.e., Eq. (7b) with compliance demonstration in §5.3.3)

By combining equations a and b variants, the FCC requirement expressed in Eq. (1) is re-written below:

$$\text{Total norm. RF exposure} = \text{norm. RF exposure from Smart Transmit enabled WWAN (norm. SAR from Sub-6 GHz WWAN} + \text{norm. PD from 5G millimeter wave NR)} + \text{norm. SAR from WLAN} \leq 1.0 \text{ normalized limit} \quad (1)$$

### 6.3.2. Simultaneous Transmission Compliance Demonstration for Sub-6 GHz WWAN + WLAN

Simultaneous transmission analysis for Sub-6 WWAN + WLAN is shown in the referenced UL FCC SAR Test Report mentioned in §1.

### 6.3.3. Simultaneous Transmission Compliance demonstration for 5G millimeter wave NR WWAN + WLAN

Simultaneous transmission analysis is performed in this section using worst-case PD values listed in Tables 6-4 to 6-6 for compliance demonstration of 5G millimeter wave NR WWAN + WLAN.

Simultaneous transmission analysis on all 5G millimeter wave NR WWAN + WLAN scenarios are listed below:

**Table 6-8: Simultaneous transmission analysis scenarios for 5G millimeter wave NR WWAN + WLAN**

|   |                                                                 |
|---|-----------------------------------------------------------------|
| 1 | 5G millimeter wave NR + Connectivity Power State 5              |
| 2 | 5G millimeter wave NR + Connectivity Power State 6 + 802.15.4ab |

\*: For each of the WLAN bands, worst-case SAR out of both WLAN antennas and WLAN MIMO scenarios is used during simultaneous transmission analysis. Additionally, note that WLAN 2.4 GHz, WLAN 5 GHz, and WLAN 6E cannot transmit simultaneously.

The total exposure ratio (TER) is calculated using the equation below, followed by the calculated TER for this EUT:

$$TER = \sum_{n=1}^N \frac{SAR_n}{SAR_{n,limit}} + \sum_{n=1}^N \frac{S_{m,avg}}{S_{m,limit}} < 1$$

**Table 6-9: 5G Millimeter Wave NR Simulation PD Surface Ratio for n258**

| n258    |                      |                       |                                               |                                                |                                    |
|---------|----------------------|-----------------------|-----------------------------------------------|------------------------------------------------|------------------------------------|
| Surface | PD Magnitude Ratio   |                       | Head                                          | Body <sup>1</sup>                              | Meas. Total PD (W/m <sup>2</sup> ) |
|         | PD Measurement Plane | SAR Measurement Plane | PD Measurement Plane 0 mm (W/m <sup>2</sup> ) | SAR Measurement Plane 5 mm (W/m <sup>2</sup> ) |                                    |
| S1      | 0.556                | -                     | 3.504                                         | 2.394                                          | -                                  |
| S2      | 0.572                | -                     | -                                             | 2.463                                          | -                                  |
| S3      | 0.059                | -                     | -                                             | 0.258                                          | 0.012                              |
| S4      | 0.085                | -                     | -                                             | 0.365                                          | 0.051                              |
| S5      | 1.000                | 0.684                 | -                                             | 4.309                                          | 3.980                              |
| S6      | 0.000                | -                     | -                                             | 0.000                                          | -                                  |

<sup>1</sup> Results for Body were calculated using the most conservative ratio between the PD Magnitudes for 2mm and 5mm with the following multiplier: PD<sub>Design Limit</sub>

**Table 6-10: 5G Millimeter Wave NR Simulation PD Surface Ratio for n260**

| n260    |                      |                       |                                               |                                                |                                    |
|---------|----------------------|-----------------------|-----------------------------------------------|------------------------------------------------|------------------------------------|
| Surface | PD Magnitude Ratio   |                       | Head                                          | Body <sup>1</sup>                              | Meas. Total PD (W/m <sup>2</sup> ) |
|         | PD Measurement Plane | SAR Measurement Plane | PD Measurement Plane 0 mm (W/m <sup>2</sup> ) | SAR Measurement Plane 5 mm (W/m <sup>2</sup> ) |                                    |
| S1      | 0.386                | -                     | 2.431                                         | 1.852                                          | -                                  |
| S2      | 0.472                | -                     | -                                             | 2.262                                          | -                                  |
| S3      | 0.115                | -                     | -                                             | 0.554                                          | 0.014                              |
| S4      | 0.213                | -                     | -                                             | 1.021                                          | 0.053                              |
| S5      | 1.000                | 0.762                 | -                                             | 4.801                                          | 3.470                              |
| S6      | 0.000                | -                     | -                                             | 0.000                                          | -                                  |

<sup>1</sup> Results for Body were calculated using the most conservative ratio between the PD Magnitudes for 2mm and 5mm with the following multiplier: PD<sub>Design Limit</sub>

**Table 6-11: 5G Millimeter Wave NR Simulation PD Surface Ratio for n261**

| n261    |                      |                       |                                               |                                                |                                    |
|---------|----------------------|-----------------------|-----------------------------------------------|------------------------------------------------|------------------------------------|
| Surface | PD Magnitude Ratio   |                       | Head                                          | Body <sup>1</sup>                              | Meas. Total PD (W/m <sup>2</sup> ) |
|         | PD Measurement Plane | SAR Measurement Plane | PD Measurement Plane 0 mm (W/m <sup>2</sup> ) | SAR Measurement Plane 5 mm (W/m <sup>2</sup> ) |                                    |
| S1      | 0.492                | -                     | 3.101                                         | 2.167                                          | -                                  |
| S2      | 0.577                | -                     | -                                             | 2.539                                          | -                                  |
| S3      | 0.092                | -                     | -                                             | 0.403                                          | 0.037                              |
| S4      | 0.109                | -                     | -                                             | 0.479                                          | 0.018                              |
| S5      | 1.000                | 0.698                 | -                                             | 4.397                                          | 3.670                              |
| S6      | 0.000                | -                     | -                                             | 0.000                                          | -                                  |

<sup>1</sup> Results for Body were calculated using the most conservative ratio between the PD Magnitudes for 2mm and 5mm with the following multiplier: PD<sub>Design Limit</sub>

**Table 6-12: TER for Worst-case WLAN + 5G Millimeter Wave NR for n258 Head**

| n258              |                  |                                                    |                                                    |             |                        |                                        |
|-------------------|------------------|----------------------------------------------------|----------------------------------------------------|-------------|------------------------|----------------------------------------|
| Head TER          | psPD             | Max Connectivity PS5<br>(Wi-Fi/Bluetooth/802.15.4) | Max Connectivity PS6<br>(Wi-Fi/Bluetooth/802.15.4) | 802.15.4.ab | psPD +<br>Connectivity | psPD +<br>Connectivity +<br>802.15.4ab |
|                   | W/m <sup>2</sup> | W/kg                                               | W/kg                                               | W/kg        |                        |                                        |
| TER Combinations  | 1                | 2                                                  | 3                                                  | 4           | 1+2                    | 1+3+4                                  |
| Applicable limit  | 10               | 1.6                                                | 1.6                                                | 1.6         | 1                      | 1                                      |
| Reported Exposure | 3.504            | 0.381                                              | 0.285                                              | 0.000       | -                      | -                                      |
| Ratio to Limit    | 0.350            | 0.238                                              | 0.178                                              | 0.000       | 0.588                  | 0.528                                  |

**Table 6-13: TER for Worst-case WLAN + 5G Millimeter Wave NR for n260 Head**

| n260              |                  |                                                    |                                                    |             |                        |                                        |
|-------------------|------------------|----------------------------------------------------|----------------------------------------------------|-------------|------------------------|----------------------------------------|
| Head TER          | psPD             | Max Connectivity PS5<br>(Wi-Fi/Bluetooth/802.15.4) | Max Connectivity PS6<br>(Wi-Fi/Bluetooth/802.15.4) | 802.15.4.ab | psPD +<br>Connectivity | psPD +<br>Connectivity +<br>802.15.4ab |
|                   | W/m <sup>2</sup> | W/kg                                               | W/kg                                               | W/kg        |                        |                                        |
| TER Combinations  | 1                | 2                                                  | 3                                                  | 4           | 1+2                    | 1+3+4                                  |
| Applicable limit  | 10               | 1.6                                                | 1.6                                                | 1.6         | 1                      | 1                                      |
| Reported Exposure | 2.431            | 0.381                                              | 0.285                                              | 0.001       | -                      | -                                      |
| Ratio to Limit    | 0.243            | 0.238                                              | 0.178                                              | 0.001       | 0.481                  | 0.422                                  |

**Table 6-14: TER for Worst-case WLAN + 5G Millimeter Wave NR for n261 Head**

| n261              |                  |                                                    |                                                    |             |                        |                                        |
|-------------------|------------------|----------------------------------------------------|----------------------------------------------------|-------------|------------------------|----------------------------------------|
| Head TER          | psPD             | Max Connectivity PS5<br>(Wi-Fi/Bluetooth/802.15.4) | Max Connectivity PS6<br>(Wi-Fi/Bluetooth/802.15.4) | 802.15.4.ab | psPD +<br>Connectivity | psPD +<br>Connectivity +<br>802.15.4ab |
|                   | W/m <sup>2</sup> | W/kg                                               | W/kg                                               | W/kg        |                        |                                        |
| TER Combinations  | 1                | 2                                                  | 3                                                  | 4           | 1+2                    | 1+3+4                                  |
| Applicable limit  | 10               | 1.6                                                | 1.6                                                | 1.6         | 1                      | 1                                      |
| Reported Exposure | 3.101            | 0.381                                              | 0.285                                              | 0.001       | -                      | -                                      |
| Ratio to Limit    | 0.310            | 0.238                                              | 0.178                                              | 0.001       | 0.548                  | 0.489                                  |

**Table 6-15: TER for Worst-case WLAN + 5G Millimeter Wave NR for n258 Body/Hotspot**

| n258             |                   |                  |                                                    |                                                    |            |                        |                                        |
|------------------|-------------------|------------------|----------------------------------------------------|----------------------------------------------------|------------|------------------------|----------------------------------------|
| Body/Hotspot TER |                   | psPD             | Max Connectivity PS5<br>(Wi-Fi/Bluetooth/802.15.4) | Max Connectivity PS6<br>(Wi-Fi/Bluetooth/802.15.4) | 802.15.4ab | psPD +<br>Connectivity | psPD +<br>Connectivity +<br>802.15.4ab |
|                  |                   | W/m <sup>2</sup> | W/kg                                               | W/kg                                               | W/kg       |                        |                                        |
| Scenario         |                   | 1                | 2                                                  | 3                                                  | 4          | 1+2                    | 1+3+4                                  |
| Applicable limit |                   | 10               | 1.6                                                | 1.6                                                | 1.6        | 1                      | 1                                      |
| S1 @ 5 mm        | Reported Exposure | 2.394            | 0.229                                              | 0.172                                              | 0.000      | -                      | -                                      |
|                  | Ratio to Limit    | 0.239            | 0.143                                              | 0.107                                              | 0.000      | 0.383                  | 0.347                                  |
| S2 @ 5 mm        | Reported Exposure | 2.463            | 0.397                                              | 0.397                                              | 0.000      | -                      | -                                      |
|                  | Ratio to Limit    | 0.246            | 0.248                                              | 0.248                                              | 0.000      | 0.495                  | 0.495                                  |
| S3 @ 5 mm        | Reported Exposure | 0.258            | 0.181                                              | 0.135                                              | 0.000      | -                      | -                                      |
|                  | Ratio to Limit    | 0.026            | 0.113                                              | 0.085                                              | 0.000      | 0.139                  | 0.110                                  |
| S4 @ 5 mm        | Reported Exposure | 0.365            | 0.392                                              | 0.294                                              | 0.000      | -                      | -                                      |
|                  | Ratio to Limit    | 0.037            | 0.245                                              | 0.184                                              | 0.000      | 0.282                  | 0.220                                  |
| S5 @ 5 mm        | Reported Exposure | 4.309            | 0.000                                              | 0.000                                              | 0.000      | -                      | -                                      |
|                  | Ratio to Limit    | 0.431            | 0.000                                              | 0.000                                              | 0.000      | 0.431                  | 0.431                                  |
| S6 @ 5 mm        | Reported Exposure | 0.000            | 0.201                                              | 0.151                                              | 0.000      | -                      | -                                      |
|                  | Ratio to Limit    | 0.000            | 0.126                                              | 0.094                                              | 0.000      | 0.126                  | 0.094                                  |

**Table 6-16: TER for Worst-case WLAN + 5G Millimeter Wave NR for n260 Body/Hotspot**

| n260             |                   |                  |                                                    |                                                    |            |                        |                                        |
|------------------|-------------------|------------------|----------------------------------------------------|----------------------------------------------------|------------|------------------------|----------------------------------------|
| Body/Hotspot TER |                   | psPD             | Max Connectivity PS5<br>(Wi-Fi/Bluetooth/802.15.4) | Max Connectivity PS6<br>(Wi-Fi/Bluetooth/802.15.4) | 802.15.4ab | psPD +<br>Connectivity | psPD +<br>Connectivity +<br>802.15.4ab |
|                  |                   | W/m <sup>2</sup> | W/kg                                               | W/kg                                               | W/kg       |                        |                                        |
| Scenario         |                   | 1                | 2                                                  | 3                                                  | 4          | 1+2                    | 1+3+4                                  |
| Applicable limit |                   | 10               | 1.6                                                | 1.6                                                | 1.6        | 1                      | 1                                      |
| S1 @ 5 mm        | Reported Exposure | 1.852            | 0.229                                              | 0.172                                              | 0.000      | -                      | -                                      |
|                  | Ratio to Limit    | 0.185            | 0.143                                              | 0.107                                              | 0.000      | 0.328                  | 0.293                                  |
| S2 @ 5 mm        | Reported Exposure | 2.262            | 0.397                                              | 0.397                                              | 0.000      | -                      | -                                      |
|                  | Ratio to Limit    | 0.226            | 0.248                                              | 0.248                                              | 0.000      | 0.474                  | 0.474                                  |
| S3 @ 5 mm        | Reported Exposure | 0.554            | 0.181                                              | 0.135                                              | 0.000      | -                      | -                                      |
|                  | Ratio to Limit    | 0.055            | 0.113                                              | 0.085                                              | 0.000      | 0.168                  | 0.140                                  |
| S4 @ 5 mm        | Reported Exposure | 1.021            | 0.392                                              | 0.294                                              | 0.000      | -                      | -                                      |
|                  | Ratio to Limit    | 0.102            | 0.245                                              | 0.184                                              | 0.000      | 0.347                  | 0.286                                  |
| S5 @ 5 mm        | Reported Exposure | 4.801            | 0.000                                              | 0.000                                              | 0.000      | -                      | -                                      |
|                  | Ratio to Limit    | 0.480            | 0.000                                              | 0.000                                              | 0.000      | 0.480                  | 0.480                                  |
| S6 @ 5 mm        | Reported Exposure | 0.000            | 0.201                                              | 0.151                                              | 0.000      | -                      | -                                      |
|                  | Ratio to Limit    | 0.000            | 0.126                                              | 0.094                                              | 0.000      | 0.126                  | 0.094                                  |

**Table 6-17: TER for Worst-case WLAN + 5G Millimeter Wave NR for n261 Body/Hotspot**

| n261             |                   |                                                    |                                                    |            |                        |                                        |
|------------------|-------------------|----------------------------------------------------|----------------------------------------------------|------------|------------------------|----------------------------------------|
| Body/Hotspot TER | psPD              | Max Connectivity PS5<br>(Wi-Fi/Bluetooth/802.15.4) | Max Connectivity PS6<br>(Wi-Fi/Bluetooth/802.15.4) | 802.15.4ab | psPD +<br>Connectivity | psPD +<br>Connectivity +<br>802.15.4ab |
|                  | W/m <sup>2</sup>  | W/kg                                               | W/kg                                               | W/kg       |                        |                                        |
| Scenario         | 1                 | 2                                                  | 3                                                  | 4          | 1+2                    | 1+3+4                                  |
| Applicable limit | 10                | 1.6                                                | 1.6                                                | 1.6        | 1                      | 1                                      |
| S1 @ 5 mm        | Reported Exposure | 2.167                                              | 0.229                                              | 0.172      | 0.000                  | -                                      |
|                  | Ratio to Limit    | 0.217                                              | 0.143                                              | 0.107      | 0.000                  | 0.324                                  |
| S2 @ 5 mm        | Reported Exposure | 2.539                                              | 0.397                                              | 0.397      | 0.000                  | -                                      |
|                  | Ratio to Limit    | 0.254                                              | 0.248                                              | 0.248      | 0.000                  | 0.502                                  |
| S3 @ 5 mm        | Reported Exposure | 0.403                                              | 0.181                                              | 0.135      | 0.000                  | -                                      |
|                  | Ratio to Limit    | 0.040                                              | 0.113                                              | 0.085      | 0.000                  | 0.125                                  |
| S4 @ 5 mm        | Reported Exposure | 0.479                                              | 0.392                                              | 0.294      | 0.000                  | -                                      |
|                  | Ratio to Limit    | 0.048                                              | 0.245                                              | 0.184      | 0.000                  | 0.232                                  |
| S5 @ 5 mm        | Reported Exposure | 4.397                                              | 0.000                                              | 0.000      | 0.000                  | -                                      |
|                  | Ratio to Limit    | 0.440                                              | 0.000                                              | 0.000      | 0.000                  | 0.440                                  |
| S6 @ 5 mm        | Reported Exposure | 0.000                                              | 0.201                                              | 0.151      | 0.000                  | -                                      |
|                  | Ratio to Limit    | 0.000                                              | 0.126                                              | 0.094      | 0.000                  | 0.094                                  |

## 7. Conclusions

Table 7-1 shows the worst-case 1-g SAR and worst-case 4cm<sup>2</sup>-avg PD at  $P_{limit}$ .

**Table 7-1: Reported RF Exposure Level**

| Reported RF Exposure Level                                                       |       | Notes                                   |
|----------------------------------------------------------------------------------|-------|-----------------------------------------|
| Highest 1-g SAR at $P_{limit}$ (W/kg)                                            | 1.190 | Refer to §1 of the reference SAR Report |
| Highest 4cm <sup>2</sup> -avg PD at <i>input.power.limit</i> (W/m <sup>2</sup> ) | 3.980 | §6.2                                    |
| Highest 1-g SAR (W/kg) for simultaneous Tx (Sub-6 WWAN + WLAN)                   | 1.593 | Refer to §1 of the reference SAR Report |
| Highest Total Exposure Ratio for simultaneous Tx (5G mmW NR + WLAN)              | 0.588 | §6.3                                    |

Qualcomm's Smart Transmit feature employed in the EUT meets the  $SAR_{Design Target}$  and  $PD_{Design Target}$  (within the design uncertainties) when operating in the static transmission condition at  $P_{limit}$  and is compliant with the FCC RF exposure limits.

## Appendices

### A. Millimeter Wave Probe Certificate

### B. Verification Source Certificate

### C. Setup Photo

### D. Measurement Equipment

#### Lab Equipment

| Name of Equipment                         | Manufacturer | Type/Model | Serial No. | Cal. Due Date |
|-------------------------------------------|--------------|------------|------------|---------------|
| E-Field Probe (SAR Lab 25)                | SPEAG        | EUmmWV4    | 9493       | 1/13/2026     |
| Data Acquisition Electronics (SAR Lab 25) | SPEAG        | DAE4       | 1716       | 3/11/2026     |
| Thermometer                               | TRACABLE     | 6530CC     | 170024398  | 2/28/2026     |
| 5G Verification Source                    | SPEAG        | 30 GHz     | 1117       | 9/6/2025      |

## E. Measurement Uncertainty

### DASY 6/8 PD Measurement Uncertainty

| a                                                                |                                 | b                  | c                  | d<br>f(d,k) | e         | f =<br>b×e/d       | g  |
|------------------------------------------------------------------|---------------------------------|--------------------|--------------------|-------------|-----------|--------------------|----|
| Error Description                                                |                                 | Unc.Value<br>(±dB) | Probab.<br>Distri. | Div.        | <i>ci</i> | Std. Unc.<br>(±dB) | vi |
| Uncertainty terms dependent on the measurement system            |                                 |                    |                    |             |           |                    |    |
| CAL                                                              | Calibration Repeatability       | 0.49               | Normal             | 1           | 1         | 0.49               | ∞  |
| COR                                                              | Probe correction                | 0                  | Rectangular        | 1.732       | 1         | 0.00               | ∞  |
| FRS                                                              | Frequency response (BW 1 GHz)   | 0.20               | Rectangular        | 1.732       | 1         | 0.12               | ∞  |
| SCC                                                              | Sensor cross coupling           | 0                  | Rectangular        | 1.732       | 1         | 0.00               | ∞  |
| ISO                                                              | Isotropy                        | 0.50               | Rectangular        | 1.732       | 1         | 0.29               | ∞  |
| LIN                                                              | Linearity                       | 0.20               | Rectangular        | 1.732       | 1         | 0.12               | ∞  |
| PSC                                                              | Probe scattering                | 0                  | Rectangular        | 1.732       | 1         | 0.00               | ∞  |
| PPO                                                              | Probe positioning o set         | 0.30               | Rectangular        | 1.732       | 1         | 0.17               | ∞  |
| PPR                                                              | Probe positioning repeatability | 0.04               | Rectangular        | 1.732       | 1         | 0.02               | ∞  |
| SMO                                                              | Sensor mechanical o set         | 0                  | Rectangular        | 1.732       | 1         | 0.00               | ∞  |
| PSR                                                              | Probe spatial resolution        | 0                  | Rectangular        | 1.732       | 1         | 0.00               | ∞  |
| FLD                                                              | Field impedance dependance      | 0                  | Rectangular        | 1.732       | 1         | 0.00               | ∞  |
| APD                                                              | Amplitude and phase drift       | 0                  | Rectangular        | 1.732       | 1         | 0.00               | ∞  |
| APN                                                              | Amplitude and phase noise       | 0.04               | Rectangular        | 1.732       | 1         | 0.02               | ∞  |
| TR                                                               | Measurement area truncation     | 0                  | Rectangular        | 1.732       | 1         | 0.00               | ∞  |
| DAQ                                                              | Data acquisition                | 0.03               | Normal             | 1           | 1         | 0.03               | ∞  |
| SMP                                                              | Sampling                        | 0                  | Rectangular        | 1.732       | 1         | 0.00               | ∞  |
| REC                                                              | Field reconstruction            | 0.60               | Rectangular        | 1.732       | 1         | 0.35               | ∞  |
| TRA                                                              | Forw ard transformation         | 0                  | Rectangular        | 1.732       | 1         | 0.00               | ∞  |
| SCA                                                              | Pow er density scaling          | -                  | Rectangular        | 1.732       | 1         | -                  | ∞  |
| SAV                                                              | Spatial averaging               | 0.10               | Rectangular        | 1.732       | 1         | 0.06               | ∞  |
| SDL                                                              | System detection limit          | 0.04               | Rectangular        | 1.732       | 1         | 0.02               | ∞  |
| Uncertainty terms dependent on the DUT and environmental factors |                                 |                    |                    |             |           |                    |    |
| PC                                                               | Probe coupling w ith DUT        | 0                  | Rectangular        | 1.732       | 1         | 0                  | ∞  |
| MOD                                                              | Modulation response             | 0.40               | Rectangular        | 1.732       | 1         | 0.23               | ∞  |
| IT                                                               | Integration time                | 0                  | Rectangular        | 1.732       | 1         | 0                  | ∞  |
| RT                                                               | Response time                   | 0                  | Rectangular        | 1.732       | 1         | 0                  | ∞  |
| DH                                                               | Device holder influence         | 0.10               | Rectangular        | 1.732       | 1         | 0.06               | ∞  |
| DAQ                                                              | DUT alignment                   | 0                  | Rectangular        | 1.732       | 1         | 0                  | ∞  |
| AC                                                               | RF ambient conditions           | 0.04               | Rectangular        | 1.732       | 1         | 0.02               | ∞  |
| AR                                                               | Ambient reflections             | 0.04               | Rectangular        | 1.732       | 1         | 0.02               | ∞  |
| MSI                                                              | Immunity / secondary reception  | 0                  | Rectangular        | 1.732       | 1         | 0                  | ∞  |
| DRI                                                              | Drift of the DUT                | 0.21               | Rectangular        | 1.732       | 1         | 0.12               | ∞  |
| Combined Standard Uncertainty Uc(f) =                            |                                 |                    | RSS                |             |           | 0.76               | ∞  |
| Expanded Uncertainty U, Coverage Factor = 2, > 95 % Confidence = |                                 |                    |                    |             |           | 1.52               |    |

END OF REPORT