

## ELEMENT MATERIALS TECHNOLOGY

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### COMPLIANCE SUMMARY REPORT

**Applicant Name:**

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**Test Site/Location:**

Element, Columbia, MD, USA  
Element, Morgan Hill, CA, USA  
Element, Suwon, Korea

**Document Serial No.:**

1M2502210015-05.A3L (Rev 1)

**FCC ID:**

**A3LSMF966U**

**APPLICANT:**

**SAMSUNG ELECTRONICS CO., LTD**

**Report Type:**

Compliance Summary

**DUT Type:**

Portable Handset

**Model:**

SM-F966U

**Additional Model(s):**

SM-F966U1

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.



|                                             |                               |                                   |
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# 1 STRATEGY FOR COMPLIANCE DEMONSTRATION

## 1.1 RF Exposure Evaluation Strategy

The FCC RF exposure limits defined based on time-averaged RF exposure. The device under test (DUT) uses the Qualcomm® Smart Transmit Gen2 feature to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is in compliance with the FCC requirement for 2G/3G/4G/5G NR, WLAN, and Bluetooth operations. Additionally, this device supports NTN/UWB and NFC but the output power of these modems is not controlled by the smart transmit algorithm.

Demonstrating compliance of DUT enabled with Qualcomm Smart Transmit feature is completed in three parts:

### 0. RF Exposure Compliance Test Report Part 0: SAR Characterization and PD Characterization

The SAR and PD Characterization, denoted as SAR Char and PD Char, determines the power limit that meets FCC exposure requirement after accounting for device design related uncertainties for each supported radio configuration and RF exposure usage scenario. The determined power limits will be loaded and stored in the EUT via the Embedded File System (EFS), and then used as inputs for Smart Transmit to operate.

For 2G/3G/4G/5G Sub6, WLAN, and Bluetooth, SAR Char is derived from SAR test measurements and conducted power measurements to determine  $P_{Limit}$  for each technology/band. For 5G mmW NR, PD Char is derived using simulation in combination with measurement as validation to determine the *input.power.limit* for each radio/antenna configuration (each beam). The  $P_{Limit}$  and *input.power.limit* represents the maximum time-averaged power level for the corresponding radio/antenna configuration.

### 1. RF Exposure Compliance Test Report Part 1: Test in Static Transmission Condition

Part 1 demonstrates that DUT meets FCC SAR and PD limits when transmitting at pre-determined maximum time-averaged power level:  $P_{Limit}$  for 2G/3G/4G/5G Sub6 NR, WLAN, and Bluetooth, and *input.power.limit* for 5G mmW NR. The SAR and PD measurement in Part 1 is under static transmission condition.

The exposure from the simultaneous transmission of WWAN and WLAN/BT is evaluated in Part 1 report.

### 2. RF Exposure Compliance Test Report Part 2: Test in Dynamic Transmission Condition

Part 2 demonstrates compliance in Tx varying transmission conditions and validates Qualcomm Smart Transmit algorithm. The test results reported in Part 2 demonstrates that DUT complies with FCC RF exposure requirement under Tx varying transmission scenarios, thereby validity of Qualcomm Smart Transmit algorithm.

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## 1.2 Nomenclature

| Applicable Technologies                  | Term                   | Description                                                                                                                                        |
|------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 2G/3G/4G/5G<br>Sub6/WLAN/BT              | $P_{Limit}$            | Power level that corresponds to the exposure design target ( $SAR_{design\_target}$ ) after accounting for all device design related uncertainties |
|                                          | $P_{Max}$              | Maximum tune up output power                                                                                                                       |
|                                          | $T_{SAR}$              | Defined time averaging window for $f < 6$ GHz                                                                                                      |
|                                          | $SAR_{design\_target}$ | Target SAR level resulting in maximum time-averaged exposure optimized from total uncertainty                                                      |
|                                          | $SAR_{Char}$           | Table containing $P_{limit}$ for all technologies                                                                                                  |
| 5G mmW NR                                | $input.power.limit$    | Power level at antenna element for each beam corresponding to the exposure design target ( $PD_{design\_target}$ )                                 |
|                                          | $T_{PD}$               | Defined time averaging window for $f > 6$ GHz                                                                                                      |
|                                          | $PD_{design\_target}$  | Target PD level resulting in maximum time-averaged exposure optimized from total uncertainty                                                       |
|                                          | $PD_{Char}$            | Table containing $input.power.limit$ for all beams                                                                                                 |
| 2G/3G/4G/5G<br>Sub6/5G mmW<br>NR/WLAN/BT | $regulatory\_body$     | Regulatory body that the algorithm is designed to comply. Algorithm's time averaging window is dependent on either FCC or ICNIRP requirements.     |

## 1.3 Bibliography

| Report Type                    | Report Serial Number |
|--------------------------------|----------------------|
| RF Exposure Part 0 Test Report | 1M2502210015-02.A3L  |
| RF Exposure Part 1 Test Report | 1M2502210015-01.A3L  |
| RF Exposure Part 2 Test Report | 1M2502210015-03.A3L  |
| PD Part 1 Test Report          | 1M2502210015-04.A3L  |
| PD Part 0 Test Report          |                      |

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## 2 TIME AVERAGING ALGORITHM

### 2.1 Algorithm Description

The FCC RF exposure limit is defined based on time-averaged RF exposure. When running in a wireless device, Qualcomm Smart Transmit algorithm enables more elegant power control mechanisms for RF exposure management. It ensures at all times the wireless device is in compliance with the FCC limit of RF exposure time-averaged over a defined time window, denoted as  $T_{SAR}$  and  $T_{PD}$  for specific absorption rate (SAR for transmit frequency < 6 GHz) and power density (PD for transmit frequency > 6 GHz) time windows, respectively.

The Smart Transmit algorithm not only ensures the wireless device complies with RF exposure requirement, but also improves the user experience and network performance.

For a given wireless device, RF exposure is proportional to the transmitting power.

- Once the SAR and PD of the wireless device is characterized at a transmit power level, RF exposure at a different power level for the characterized configurations can be scaled by the change in the corresponding power level.
- Therefore, for a characterized device, RF exposure compliance can be achieved through transmit power control and management.

The Smart Transmit algorithm embedded in Qualcomm modems reliably controls the transmit power of the wireless device in real time to maintain the time-averaged transmit power, in turn, time-averaged RF exposure, below the predefined time-averaged power limit for each characterized technology and band.

- This predefined time-averaged power limit is denoted as  $P_{Limit}$  corresponding SAR limit (frequency < 6 GHz) and *input.power.limit* corresponding PD limit (frequency > 6 GHz) in this report.
- The wireless device continuously transmitting at  $P_{Limit}$  level or *input.power.limit* level complies with the FCC RF exposure requirement.

In a simultaneous transmission scenario, the algorithm manages all active transmitters and make sure the total exposure ratio from each transmitter not exceeding to 1.

|                                             |                               |                                   |
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## 2.2 Basic concept of the algorithm

The Smart Transmit algorithm controls and manages the instantaneous transmit power (Tx) to maintain the time-averaged Tx power and therefore, time-averaged RF exposure in compliance with FCC limits.

- If time-averaged transmit power approaches  $P_{Limit}$  or *input.power.limit*, then the modem needs to limit instantaneous transmit power to ensure the time-averaged transmit power does not exceed  $P_{Limit}$  or *input.power.limit* in any  $T_{SAR}$  and  $T_{PD}$  time windows since the time-averaged RF exposure is required to comply with the FCC RF exposure limit in any  $T_{SAR}$  or  $T_{PD}$  time window.
- The wireless device can instantaneously transmit at high transmit powers and exceed the  $P_{Limit}$  or *input.power.limit* level for a short duration before limiting the power to maintain the time-averaged transmit power under  $P_{Limit}$  or *input.power.limit*.
- If the wireless device transmits at high power for a long time, then the radio link needs to be dropped to be compliant with time-averaged Tx power requirement (see Figure 2-1).
- To avoid dropping the radio link, Smart Transmit algorithm starts the power limiting enforcement earlier in time to back off the Tx power to a reserve level (denoted as  $P_{reserve}$ ), so the wireless device can maintain the radio link at a minimum reserve power level for as long as needed, and at the same time ensure the time-averaged Tx power over any defined time window is less than  $P_{Limit}$  at all times (see Figure 2-2). At all times, Smart Transmit meets the below equation:

$$time.avg.Tx\ power = \frac{1}{T_{SAR}} \int_{t-T_{SAR}}^t inst.Tx\ power(t) dt \leq P_{limit}$$

**Equation 2-1**

where, *time.avg.Tx power* is the transmit power averaged between  $t-T_{SAR}$  and  $t$  time period;  $T_{SAR}$  is the time window defined by FCC for time-averaging RF exposure for Tx frequency less than 6GHz (sub6); *inst. Tx power (t)* is the instantaneous transmit power at  $t$  time instant;  $P_{Limit}$  is the predefined time-averaged power limit. Similarly, Smart Transmit meets the below equation for mmW transmission:

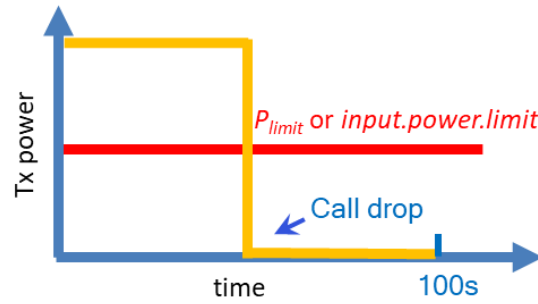
$$mmW\_time.avg.Tx\ power = \frac{1}{T_{PD}} \int_{t-T_{PD}}^t mmW\_Tx\ power(t) dt \leq input.power.limit$$

**Equation 2-2**

where, *mmW\_time.avg.Tx power* is the mmW transmit power averaged between  $t-T_{PD}$  and  $t$  time period;  $T_{PD}$  is the time window defined by FCC for time-averaging RF exposure for mmW bands; *mmW\_Tx power (t)* is the instantaneous mmW transmit power at  $t$  time instant; *input.power.limit* is the predefined time-averaged power limit for the beam under test.

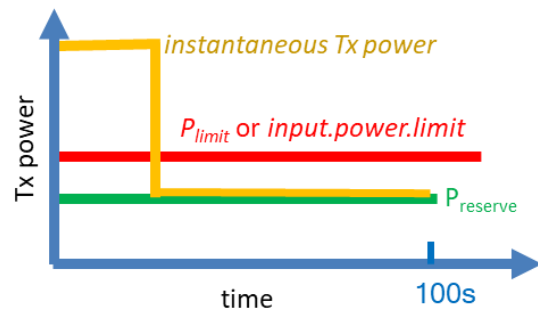
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(a)

**Figure 2-1**  
Transmit at high power when needed and permitted



(b)

**Figure 2-2**  
Transmit with reserve power to support continuous transmission at a minimum power level ( $P_{reserve}$ )

- In the case of simultaneous transmission, Smart Transmit manages all active transmitters and make sure the total exposure ratio is less than 1

$$\sum \frac{1}{T_{SAR}} \int_{t-T_{SAR}}^t \frac{SAR(t) dt}{FCC SAR limit} + \sum \frac{1}{T_{PD}} \int_{t-T_{psPD}}^t \frac{4cm^2 psPD(t) dt}{FCC psPD limit} \leq 1$$

**Equation 2-3**

|                                             |                               |                                   |
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## 2.3 Configurable Parameters

The following input parameters are required for functionality of Qualcomm Smart Transmit algorithm. These parameters cannot be accessed by the end user, because at the factory they are entered through the embedded file system (EFS) entries by the OEM

| Input Parameter                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>regulatory body</i>                                                               | <ul style="list-style-type: none"> <li>Inputs of “0” and “1” corresponding to FCC and ICNIRP requirements for the averaging time windows.</li> <li>For FCC, algorithm uses an averaging window of 100 seconds for <math>f &lt; 3</math> GHz, 60 seconds for <math>3 \text{ GHz} &lt; f &lt; 6 \text{ GHz}</math>, and 4 seconds for <math>24 \text{ GHz} &lt; f &lt; 42 \text{ GHz}</math>.</li> </ul>                                                                                                                                                      |
| <i>Tx_power_at_SAR_design_target</i><br>( $P_{Limit}$ in dBm)<br>$f < 6 \text{ GHz}$ | <p>The maximum time-averaged transmit power, in dBm, corresponding to the <i>SAR_design_target</i>.</p> <p><i>SAR_design_target</i> is pre-determined for this DUT and it is less than regulatory SAR limit after accounting for all design related tolerances. The time-averaged SAR is assessed against this <i>SAR_design_target</i> in real time to determine the compliance.</p> <p><math>P_{Limit}</math> could vary with technology, band and Device State Index (DSI) and therefore, it has the unique value for each technology, band and DSI.</p> |
| <i>input.power.limit</i> in dBm<br>$f \geq 6 \text{ GHz}$                            | Maximum time-averaged power at the input of antenna element port at which each antenna configuration/beam meets <i>PD_design_target</i> .                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                             |                               |                                   |
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## 3 DUT DESCRIPTION

### 3.1 Device Overview

| Band & Mode        | Operating Modes | Tx Frequency                                                                                                                               |
|--------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| GSM/GPRS/EDGE 850  | Voice/Data      | 824.20 - 848.80 MHz                                                                                                                        |
| GSM/GPRS/EDGE 1900 | Voice/Data      | 1850.20 - 1909.80 MHz                                                                                                                      |
| UMTS 850           | Voice/Data      | 826.40 - 846.60 MHz                                                                                                                        |
| UMTS 1750          | Voice/Data      | 1712.4 - 1752.6 MHz                                                                                                                        |
| UMTS 1900          | Voice/Data      | 1852.4 - 1907.6 MHz                                                                                                                        |
| LTE Band 71        | Voice/Data      | 665.5 - 695.5 MHz                                                                                                                          |
| LTE Band 12        | Voice/Data      | 699.7 - 715.3 MHz                                                                                                                          |
| LTE Band 13        | Voice/Data      | 779.5 - 784.5 MHz                                                                                                                          |
| LTE Band 14        | Voice/Data      | 790.5 - 795.5 MHz                                                                                                                          |
| LTE Band 26        | Voice/Data      | 814.7 - 848.3 MHz                                                                                                                          |
| LTE Band 5         | Voice/Data      | 824.7 - 848.3 MHz                                                                                                                          |
| LTE Band 66        | Voice/Data      | 1710.7 - 1779.3 MHz                                                                                                                        |
| LTE Band 4         | Voice/Data      | 1710.7 - 1754.3 MHz                                                                                                                        |
| LTE Band 25        | Voice/Data      | 1850.7 - 1914.3 MHz                                                                                                                        |
| LTE Band 2         | Voice/Data      | 1850.7 - 1909.3 MHz                                                                                                                        |
| LTE Band 30        | Voice/Data      | 2307.5 - 2312.5 MHz                                                                                                                        |
| LTE Band 7         | Voice/Data      | 2502.5 - 2567.5 MHz                                                                                                                        |
| LTE Band 41        | Voice/Data      | 2498.5 - 2687.5 MHz                                                                                                                        |
| LTE Band 38        | Voice/Data      | 2572.5 - 2617.5 MHz                                                                                                                        |
| LTE Band 48        | Voice/Data      | 3552.5 - 3697.5 MHz                                                                                                                        |
| NR Band n71        | Voice/Data      | 665.5 - 695.5 MHz                                                                                                                          |
| NR Band n12        | Voice/Data      | 701.5 - 713.5 MHz                                                                                                                          |
| NR Band n14        | Voice/Data      | 790.5 - 795.5 MHz                                                                                                                          |
| NR Band n26        | Voice/Data      | 816.5 - 846.5 MHz                                                                                                                          |
| NR Band n5         | Voice/Data      | 826.5 - 846.5 MHz                                                                                                                          |
| NR Band n70        | Voice/Data      | 1697.5 - 1707.5 MHz                                                                                                                        |
| NR Band n66        | Voice/Data      | 1712.5 - 1777.5 MHz                                                                                                                        |
| NR Band n25        | Voice/Data      | 1852.5 - 1912.5 MHz                                                                                                                        |
| NR Band n2         | Voice/Data      | 1852.5 - 1907.5 MHz                                                                                                                        |
| NR Band n30        | Voice/Data      | 2307.5 - 2312.5 MHz                                                                                                                        |
| NR Band n7         | Voice/Data      | 2502.5 - 2567.5 MHz                                                                                                                        |
| NR Band n41        | Voice/Data      | 2501.01 - 2685 MHz                                                                                                                         |
| NR Band n38        | Voice/Data      | 2575 - 2615 MHz                                                                                                                            |
| NR Band n48        | Voice/Data      | 3555 - 3694.98 MHz                                                                                                                         |
| NR Band n78        | Voice/Data      | 3455.01 - 3544.98 MHz;<br>3705 - 3795 MHz                                                                                                  |
| NR Band n77        | Voice/Data      | 3455.01 - 3544.98 MHz;<br>3705 - 3975 MHz                                                                                                  |
| NTN Band 255       | Data            | 1629 - 1658 MHz                                                                                                                            |
| NR Band n258       | Data            | 24250 - 24450 MHz;<br>24750 - 25250 MHz                                                                                                    |
| NR Band n260       | Data            | 37000 - 40000 MHz                                                                                                                          |
| NR Band n261       | Data            | 27500 - 28350 MHz                                                                                                                          |
| 2.4 GHz WIFI       | Voice/Data      | 2412 - 2462 MHz                                                                                                                            |
| 5 GHz WIFI         | Voice/Data      | U-NII-1: 5180 - 5240 MHz<br>U-NII-2A: 5260 - 5320 MHz<br>U-NII-2C: 5500 - 5720 MHz<br>U-NII-3: 5745 - 5825 MHz<br>U-NII-4: 5845 - 5885 MHz |
| 6 GHz WIFI         | Voice/Data      | U-NII-5: 5935 - 6415 MHz<br>U-NII-6: 6435 - 6515 MHz<br>U-NII-7: 6535 - 6875 MHz<br>U-NII-8: 6895 - 7115 MHz                               |
| 2.4 GHz Bluetooth  | Data            | 2402 - 2480 MHz                                                                                                                            |
| NFC                | Data            | 13.56 MHz                                                                                                                                  |
| UWB                | Data            | 6489.6 - 7987.2 MHz                                                                                                                        |

This device uses the Qualcomm Smart Transmit feature to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is in compliance with the FCC requirement for 2G/3G/4G/5G NR/WLAN/Bluetooth operations. Additionally, this device supports NFC/UWB/NTN technologies but the output power of these modems is not controlled by the smart transmit algorithm.

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## 4 COMPLIANCE SUMMARY

### 4.1 RF Exposure Compliance Summary

All transmission scenarios that the DUT supports comply with FCC time-averaged RF exposure requirements, as shown in Table 4-1.

**Table 4-1**  
**Reported RF Exposure Levels**

|                                      | RFx Evaluation             | Power Level                                                  | FCC Limit | <u>Reported</u><br>RF<br>Exposure<br>Level | Test Report                           |
|--------------------------------------|----------------------------|--------------------------------------------------------------|-----------|--------------------------------------------|---------------------------------------|
| <b>SAR</b><br>(W/kg)                 | Standalone<br>1g SAR       | $P_{limit}$                                                  | 1.6       | 1.25                                       | FCC SAR Evaluation<br>Report (Part 1) |
|                                      | Standalone<br>10g SAR      | $P_{limit}$                                                  | 4.0       | 1.47                                       |                                       |
|                                      | Simultaneous Tx<br>1g SAR  | $P_{limit}$                                                  | 1.6       | 1.59                                       |                                       |
|                                      | Simultaneous Tx<br>10g SAR | $P_{limit}$                                                  | 4.0       | 1.98                                       |                                       |
| <b>psPD</b><br>(mW/cm <sup>2</sup> ) | 4cm <sup>2</sup> psPD      | <i>input.power.limit</i>                                     | 1.0       | 0.891                                      | FCC PD Evaluation<br>Report (Part 1)  |
| <b>TER</b>                           | Total Exposure Ratio       | $P_{limit}$ for SAR,<br><i>input.power.limit</i> for<br>psPD | 1.0       | 0.996                                      | FCC SAR Evaluation<br>Report (Part 1) |

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