

**FCC 47 CFR § 2.1093
IEC/IEEE Std 63195-1: 2022**

**POWER DENSITY EVALUATION REPORT
(Part 1 : Test in Static Transmission Condition)**

FOR

GSM/WCDMA/LTE/NR/NTN Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, NFC, UWB and WPT

MODEL NUMBER: SM-F971U, SM-F971U1

FCC ID: A3LSMF971U

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Testing Laboratory

TL-637

Revision History

Rev.	Date	Revisions	Revised By
V1	2026-04-23	Initial Issue	--
V2	2026-04-28	Revised Reported psPD Sec. 1. Revised input.power.limit in Sec. 7.5., 10. Revised Result table in Sec. 10.1. Revised TER table in Sec. 11.	JeongYeon Won
V3	2026-06-05	Modified Beam ID pole in Sec. 10.3.	JeongYeon Won

Table of Contents

1.	Attestation of Test Results	5
2.	Introduction	6
3.	Measurement setup and General Information	7
3.1.	<i>Power density measurement system</i>	<i>7</i>
3.1.1.	<i>Power density probe</i>	<i>7</i>
3.1.2.	<i>Power density measurement system verification.....</i>	<i>7</i>
3.2.	<i>Test Specification, Methods and Procedures</i>	<i>8</i>
3.3.	<i>Facilities and Accreditation</i>	<i>8</i>
4.	Test Condition, Configuration, and Assessment	8
4.1.	<i>Qualcomm Smart Transmit parameters</i>	<i>8</i>
4.2.	<i>Qualcomm Smart Transmit parameters for the 5G mmW NR</i>	<i>8</i>
5.	Measurement System & Test Equipment.....	9
5.1.	<i>Measurement System</i>	<i>9</i>
5.2.	<i>EUmmWVx / 5G Probe</i>	<i>10</i>
5.3.	<i>Data Acquisition Electronics(DAE)</i>	<i>10</i>
6.	Measurement Procedures.....	11
6.1.	<i>System Verification/DUT Scan Procedures.....</i>	<i>11</i>
6.2.	<i>Total Field and Power Flux Density Reconstruction(measurement distance)</i>	<i>11</i>
6.3.	<i>Test Equipment.....</i>	<i>12</i>
6.4.	<i>Measurement Uncertainty</i>	<i>12</i>
6.5.	<i>DECISION RULE.....</i>	<i>12</i>
7.	DUT Information	13
7.1.	<i>DUT Description</i>	<i>13</i>
7.2.	<i>Wireless Technologies.....</i>	<i>13</i>
7.3.	<i>5G NR mmWave PD Test and Reporting Considerations</i>	<i>13</i>
7.4.	<i>Time-Averaging Algorithm for RF Exposure Compliance</i>	<i>14</i>
7.5.	<i>Input Power Limit.....</i>	<i>15</i>
8.	RF Exposure Conditions (Test Configurations)	16
8.1.	<i>Operating mode(s).....</i>	<i>16</i>
8.2.	<i>Test position Configurations.....</i>	<i>16</i>
9.	Dielectric Property & System Check.....	17
9.1.	<i>Dielectric Property</i>	<i>17</i>
9.2.	<i>System Check.....</i>	<i>17</i>

10. Measured Power Density Results 18

10.1. NR Band n258 Test Results..... 20

10.2. NR Band n261 Test Results..... 20

10.3. NR Band n260 Test Results..... 21

11. TER (Total Exposure Ratio) Conditions..... 22

Appendixes 26

S-4792147575-S2 FCC Report PD App A Photos..... 26

S-4792147575-S2 FCC Report PD App B Test Plots 26

S-4792147575-S2 FCC Report PD App C System Plots 26

S-4792147575-S2 FCC Report PD App D Probe Certi..... 26

S-4792147575-S2 FCC Report PD App E Source Certi 26

1. Attestation of Test Results

Applicant Name	SAMSUNG ELECTRONICS CO.,LTD.	
FCC ID	A3LSMF971U	
Model Name	SM-F971U, SM-F971U1	
Applicable Standards	FCC 47 CFR § 2.1093 IEC/IEEE Std 63195-1: 2022	
Exposure Category	Power Density Limit (mW/cm²)	
General population / Uncontrolled exposure	1.0	
RF exposure Conditions	Power Density Results (mW/cm²)	
	Measured psPD	Reported psPD
NR Band n258	0.579	0.98
NR Band n261	0.663	0.98
NR Band n260	0.680	0.98
TER (Total Exposure Ratio)	0.98	
Date Tested	2026-02-19 to 2026-04-23	
Test Results	Pass	
UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. 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 IAS, any agency of the Federal Government, or any agency of any government. This report is written to support regulatory compliance of the applicable standards stated above.		
Approved & Released By:		Prepared By:
		
Justin Park Operations Leader UL Korea, Ltd. Suwon Laboratory		JeongYeon Won Laboratory Engineer Associate UL Korea, Ltd. Suwon Laboratory

2. Introduction

The equipment under test (EUT) is a Phone, model SM-F971U, SM-F971U1 (FCC ID: A3LSMF971U), it contains Qualcomm modems supporting Sub6(2G/3G/4G/5G/NTN technologies and WLAN bands(with BT)) and 5G-NR mmW technology.

The device uses Qualcomm Smart Transmit (GEN2) to dynamically manage transmit power in real time, ensuring that time-averaged RF exposure always complies with FCC requirements.

The purpose of this PD Part 1 report is to demonstrate that this EUT complies with FCC RF exposure limits at maximum time-averaged transmit power limits for 5G NR_mmW technology.

- Time-averaged RF exposure of PD design target, which predefined time-averaged power limit (Input.power.limit for 5G mmW NR), for each characterized mmW bands. (please refer to PD Part.0 report)
- Smart Transmit enables the device to transmit at higher instantaneous power when necessary, while dynamically managing power to ensure that the time-averaged transmit power does not exceed the input.power.limit.
- To demonstrate that the EUT complies with FCC Power Density (PD) limits when transmitting under static transmission conditions at the maximum allowable time-averaged power level defined by input.power.limit.
- Demonstrate compliance in simultaneous transmission scenarios involving both supported TAS Sub6 techs and Non-supported TAS External Ratio techs(UWB and NFC), where Sub6 techs exposure is assessed based on time-averaged transmit power limits in Part 2, and External Ratio exposure are assessed separately in Part.1.

By following the above steps, this report demonstrates that this EUT complies with FCC RF exposure limits for FCC equipment authorization of FCC ID: A3LSMF971U.

The *input.power.limit* used in this report are determined and listed in PD Part 0 report.

Refer to compliance Summary report for product description and terminology used in this report.

3. Measurement setup and General Information

The SAR measurement are recorded in UL FCC Report_SAR_Part.1 (Report No. S-4792147575-S1). This section provides the detail of the test setup used for PD measurement.

3.1. Power density measurement system

The power density measurement system is constructed based on the DASY8 platform by SPEAG. The DASY8 with EummmWV2 and 5G software module can measure the RF exposure (power density) up to 110 GHz as close as 2 mm from any transmitter.

3.1.1. Power density probe

The EummmWV2 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)
- ISO 17025 accredited calibration

3.1.2. 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 x 100 x 100 mm
- Weight: 1 kg

Table 2-1 shows the verification test results. The measured power density (PD) value is within 10 % of target level. Note that the uncertainty of 5G verification source is 1.4 dB (k=2).

3.2. Test Specification, Methods and Procedures

Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEC/IEEE 63195-1:2022, IEC TR 63170:2018 the following FCC Published RF exposure KDB procedures:

- 447498 D04 Interim General RF Exposure Guidance v01

In addition to the above, [TCB workshop](#) information was used.

- [TCB workshop](#) November, 2017; Page 19 - 25, RF Exposure Procedures (Power Density Evaluation)
- [TCB workshop](#) October, 2018; Page 3 - 5, RF Exposure Procedures (Millimeter Wave guidance)
- [TCB workshop](#) April, 2019; Page 3, RF Exposure Procedures (Millimeter Wave RF Exposure Evaluation)
- [TCB workshop](#) November, 2019; Page 14, RF Exposure Procedures (Millimeter Wave Scan Requirements)
- SPEAG, DASY8/6 Module mmWave Manual, April 2023

3.3. Facilities and Accreditation

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

Suwon
SAR 9

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637.

The full scope of accreditation can be viewed at :

<https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. Test Condition, Configuration, and Assessment

4.1. Qualcomm Smart Transmit parameters

The input parameters described are required for functionality of Qualcomm Smart Transmit algorithm.

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

Part 0 report documents determination of P_{limit} for sub-6 WWAN bands, and *input.power.limit* for 5G mmW NR bands using the below design targets and device related uncertainty:

- SAR_design_target of 1.0 W/kg for 1-g SAR and sub-6 device design related uncertainty of 1.0 dB.
- PD_design_target of 0.724 mW/cm² and mmW device design related uncertainty of 1.4 dB.

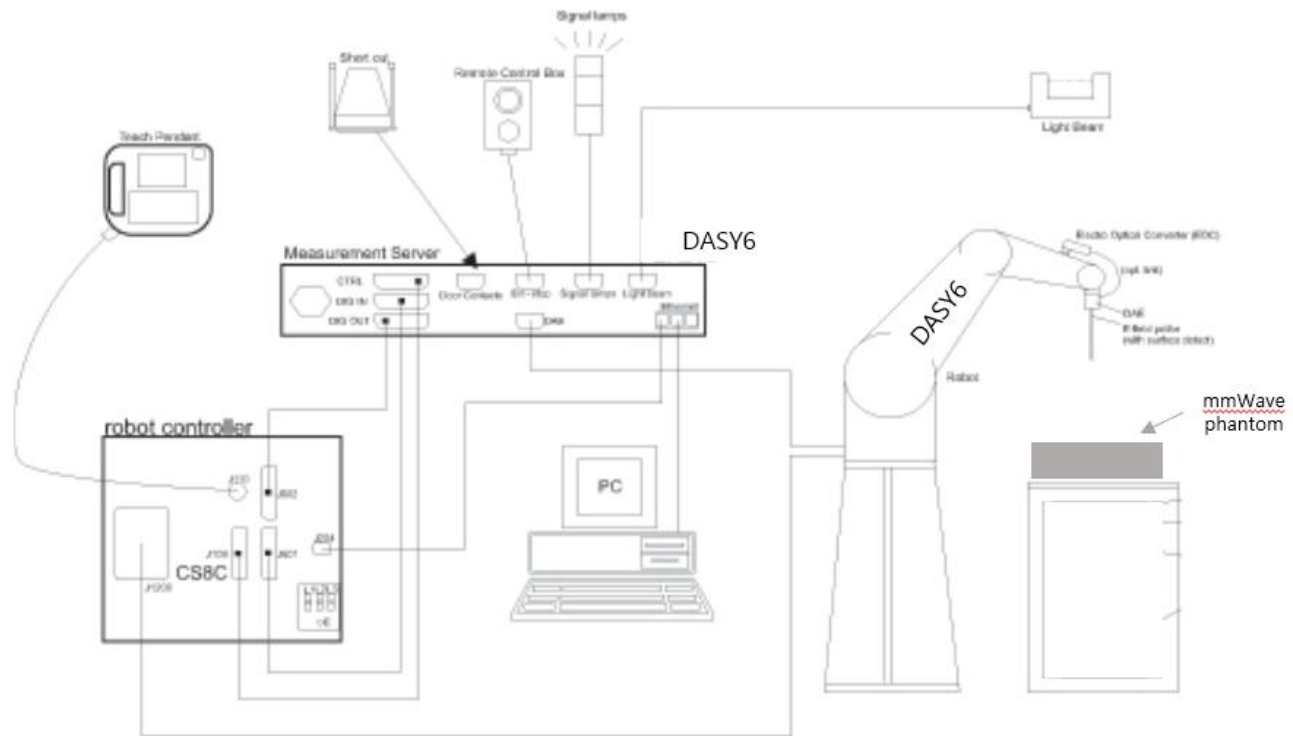
4.2. Qualcomm Smart Transmit parameters for the 5G mmW NR

The *input.power.limit* parameter for 5G mmW NR radio determined in Section 7.5 of this report are populated via EFS entry into the EUT.

5. Measurement System & Test Equipment

5.1. Measurement System

The DASY 6/8 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- The EUmmWVx probe is based on the pseudo-vector probe design, which not only measures the field magnitude but also derives its polarization ellipse.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win11 and the DASY8/6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom which is specialized for 5G other accessories according to the targeted measurement.

5.2. EUmmWVx / 5G Probe

E-Field mm-Wave Probe for General Near-Field Measurements



Two dipoles optimally arranged to obtain pseudo-vector information
 Minimum 3 measurements/point, 120° rotated around probe axis
 Sensors (0.8 mm length) printed on glass substrate protected by high density foam
 Low perturbation of the measured field
 Requires positioner which can do accurate probe rotation

Frequency Range
Dynamic Range
Position Precision

750 MHz – 110 GHz
 <20 V/m - 10'000 V/m with PRE-10 (min <50 V/m - 3000 V/m)
 <0.2 mm (DASY6)

Dimensions

Overall length: 337 mm (tip: 20 mm)
 Tip diameter: encapsulation 8 mm (internal sensor <1 mm)
 Distance from probe tip to dipole centers: <2 mm
 Sensor displacement to probe's calibration point: <0.3 mm

Applications

E-field measurements of 5G devices and other mm-wave transmitters operating above 10 GHz in <2 mm distance from device (free-space)
 Power density, H-field and far-field analysis using total field reconstruction (cDASY6 5G or ICEy-mmW module required)

Compatibility

cDASY6 + 5G-Module SW1.0 and higher

5.3. Data Acquisition Electronics(DAE)



Serial optical link for communication with DASY4/5 embedded system (fully remote controlled) Two-step probe touch detector for mechanical surface detection and emergency robot stop

Measurement Range

-100 – +300 mV (16 bit resolution and two range settings: 4 mV, 400 mV)

Input Offset Voltage

<5 µV (with auto zero)

Input Resistance

200 Mohm

Input Bias Current

<50 fA

Battery Power

>10 hours of operation (with two 9.6 V NiMH batteries)

Dimensions (L × W × H)

60 × 60 × 68 mm

6. Measurement Procedures

6.1. System Verification/DUT Scan Procedures

cDASY8/6 5G Module supports “5G Scan”, a fine resolution scan performed on two different planes which is used to reconstruct the E- and H-fields as well as the power density; the average power density is derived from this measurement.

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to device under test.

Step 2: 5G Scan

The steps in the X, Y, and Z directions are specified in terms of fractions of the signal wavelength, λ . Area Scan Parameters extracted from SPEAG, 5G Module Application Note.

Recommended settings for measurement of verification sources

Frequency [GHz]	Grid step	Grid extent X/Y [mm]	Measurement points
10	$0.125 (\frac{\lambda}{8})$	60/60	18 × 18
30	$0.25 (\frac{\lambda}{4})$	60/60	26 × 26
45	$0.25 (\frac{\lambda}{4})$	42/42	28 × 28
60	$0.25 (\frac{\lambda}{4})$	32.5/32.5	28 × 28
90	$0.25 (\frac{\lambda}{4})$	30/30	38 × 38

The minimum distance of probe sensors to verification source surface, horn antenna, is 10 mm.

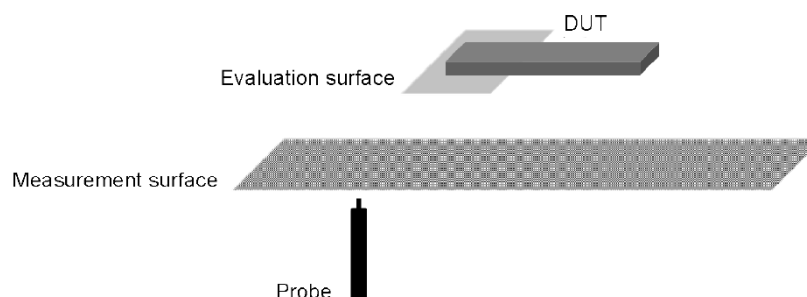
In other case, distance is determined as $\lambda/5$, details are shown in section 6.2.

Step 3: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1. When the drift is larger than $\pm 5\%$, test is repeated from step1.

6.2. Total Field and Power Flux Density Reconstruction(measurement distance)

Reconstruction algorithms are used to project or transform the measured fields from the measurement surface to the evaluation surface (below fig) in order to determine power density or to compute spatial-average and/or local power density with known uncertainty. Manufacture has developed a reconstruction approach based on the Gerchberg-Saxton algorithm, which benefits from the availability of the E-field polarization ellipse information obtained with the EUmmWVx probe. This reconstruction algorithm, together with the ability of the probe to measure extremely close to the source without perturbing the field, permits reconstruction of the E- and H-fields, as well as of the power density, on measurement planes located as near as $\lambda/5$ away.



6.3. Test Equipment

The measuring equipment used to perform the tests documented in this report has been calibrated in accordance with the manufacturers' recommendations, and is traceable to recognized national standards.

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
5G probe	SPEAG	EumMWV4	9536	2027-02-16
Data Acquisition Electronics	SPEAG	DAE4	1343	2026-07-09
Verification kit	SPEAG	5G verification source_30GHz	1082	2027-02-16
Thermometer	Lutron	MHB-382SD	AK.12102	2025-07-24

6.4. Measurement Uncertainty

Measurement Uncertainty for cDASY6 Module mmWave

Error Description	Uncertainty value ($\pm$ dB)	Probe Dist.	Divisor	(Ci)	Std. Unc. ($\pm$ dB)	(Vi)
Uncertainty terms dependent on the measurement system						
Calibration	0.49	Normal	1	1	0.49	Infinity
Probe correction	0.00	Rectangular	1.73	1	0.00	Infinity
Frequency response (BW $\leq$ 1 GHz)	0.20	Rectangular	1.73	1	0.12	Infinity
Sensor cross coupling	0.00	Rectangular	1.73	1	0.00	Infinity
Isotropy	0.50	Rectangular	1.73	1	0.29	Infinity
Linearity	0.20	Rectangular	1.73	1	0.12	Infinity
Probe scattering	0.00	Rectangular	1.73	1	0.00	Infinity
Probe positioning offset	0.30	Rectangular	1.73	1	0.17	Infinity
Probe positioning repeatability	0.04	Rectangular	1.73	1	0.02	Infinity
Sensor mechanical offset	0.00	Rectangular	1.73	1	0.00	Infinity
Probe spatial resolution	0.00	Rectangular	1.73	1	0.00	Infinity
Field impedance dependence	0.00	Rectangular	1.73	1	0.00	Infinity
Measurement drift	0.05	Rectangular	1.73	1	0.03	Infinity
Amplitude and phase noise	0.04	Rectangular	1.73	1	0.02	Infinity
Measurement area truncation	0.10	Rectangular	1.73	1	0.06	Infinity
Data acquisition	0.03	Normal	1.00	1	0.03	Infinity
Sampling	0.00	Rectangular	1.73	1	0.00	Infinity
Field reconstruction	0.60	Rectangular	1.73	1	0.35	Infinity
Signal-to-Noise Ratio	0.00	Rectangular	1.73	1	0.00	Infinity
FTE/MEO	0.00	Rectangular	1.73	1	0.00	Infinity
Power density scaling	0.00	Rectangular	1.73	1	0.00	Infinity
Spatial averaging	0.10	Rectangular	1.73	1	0.06	Infinity
Uncertainty terms dependent on the DUT and environmental factors						
Probe coupling with DUT	0.00	Rectangular	1.73	1	0.00	Infinity
Modulation response	0.40	Rectangular	1.73	1	0.23	Infinity
Integration time	0.00	Rectangular	1.73	1	0.00	Infinity
Response time	0.00	Rectangular	1.73	1	0.00	Infinity
Device holder influence	0.10	Rectangular	1.73	1	0.06	Infinity
DUT alignment	0.00	Rectangular	1.73	1	0.00	Infinity
RF ambient conditions	0.04	Rectangular	1.73	1	0.02	Infinity
Laboratory Temperature	0.05	Rectangular	1.73	1	0.03	Infinity
Laboratory Reflections	0.04	Rectangular	1.73	1	0.02	Infinity
Immunity / secondary reception	0.00	Rectangular	1.73	1	0.00	Infinity
Drift of the DUT	0.20	Rectangular	1.73	1	0.12	Infinity
Combined Std. Uncertainty					0.76	
Expanded Standard Uncertainty (95%)					1.53	

6.5. DECISION RULE

Measurement Uncertainty is not applied when providing statements of conformity in accordance with IEC Guide 115:2023, 4.3.3.

7. DUT Information

7.1. DUT Description

Device Dimension	Refer to Appendix A.		
Back Cover	The Back Cover is not removable		
Battery Options	The rechargeable battery is not user accessible.		
Test sample information	No.	S/N	Notes
	1	ZBJ0615M	mmWave Radiation
	2	ZBJ0561M	mmWave Radiation

7.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating mode	Duty Cycle used for SAR testing
5G NR mmW	NR Band n258 NR Band n261 NR Band n260	DFT-s-OFDM : QPSK, 16QAM, 64QAM CP-OFDM : QPSK, 16QAM, 64QAM	100%

7.3. 5G NR mmWave PD Test and Reporting Considerations

Item	Description	
Frequency range, Channel Bandwidth, Numbers and Frequencies	Band 258	Frequency range: 24250 – 24450 MHz, 24750 – 25250 MHz
		Channel Bandwidth
		100MHz
		50MHz
		MHz / Channel
	Low	24350.04 / 2018333
	Mid	24800.04 / 2025833
	High	25200.00 / 2032499
	Band 261	Frequency range: 27500 – 28350 MHz
		Channel Bandwidth
		100MHz
		50MHz
		MHz / Channel
	Low	27550.08 / 2071677
	Mid	27924.96 / 2077915
	High	28299.96 / 2084165
	Band 260	Frequency range: 37000 – 40000 MHz
		Channel Bandwidth
		100MHz
		50MHz
		MHz / Channel
	Low	37050.00 / 2229999
	Mid	38499.96 / 2254165
	High	39949.92 / 2278331
Sub carrier Spacing	120 kHz	
Total Number of Supported Uplink CCs (SISO)	4	
Total Number of Supported Uplink CCs (MIMO)	4	
LTE Anchor Bands	n258: 2/4/5/12/14/30/66/71 n260: 2/5/12/13/14/30/48/66 n261: 2/5/12/13/48/66	
NR FR1 Anchor Bands	n258: n25/41/66/77 n261: n2/5/14/25/30/41/48/66/71/77 n260: n2/5/25/41/48/66/71/77	
Duplex Type (mmWave)	TDD	

7.4. Time-Averaging Algorithm for RF Exposure Compliance

The equipment under test (EUT) are supporting 2G/3G/4G/5G/NTN NR and WLAN (with BT) technologies through Qualcomm® modem. Qualcomm® modem is enabled with Qualcomm® Smart Transmit feature. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of *SAR_design_target* or *PD_design_target*, below the predefined time-averaged power limit (i.e., P_{limit} for sub-6 radio, and *input.power.limit* for 5G mmW NR), for each characterized technology and band. Smart Transmit allows the device to transmit at higher power instantaneously when needed. but manages power limiting to maintain time-averaged transmit power to *input.power.limit* listed in Section 7.5.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC PD limits when transmitting in static transmission scenario at maximum allowable time-averaged power level given by *input.power.limit*.

7.5. Input Power Limit

All power density measurements for this device were performed at the *input.power.limit* given in below tables. Input power is per antenna element and polarization for each antenna module.

5G NR mmW H Patch Input Power Limit

Antenna	NR Band n258			NR Band n261			NR Band n260		
	Beam ID_1	Beam ID_2	input.power.limit (dBm)	Beam ID_1	Beam ID_2	input.power.limit (dBm)	Beam ID_1	Beam ID_2	input.power.limit (dBm)
Ant.H (Patch H)	0		11.3	0		9.2	0		12.6
	1		11.0	1		10.6	1		10.6
	2		11.6	2		11.4	2		10.1
	3		13.9	3		10.6	3		10.5
	4		12.8	4		10.5	4		11.7
	5		8.7	5		9.5	5		9.0
	6		9.5	6		6.0	6		7.4
	7		7.4	7		6.1	7		7.6
	8		10.1	8		10.9	8		9.0
	9		10.0	9		7.4	9		6.9
	10		8.1	10		6.6	10		7.6
	11		9.8	11		8.3	11		7.4
	12		4.6	12		6.5	12		3.9
	13		4.8	13		2.7	13		4.4
	14		4.1	14		2.2	14		4.6
	15		5.6	15		2.7	15		4.5
	16		6.3	16		6.8	16		4.3
	17		5.1	17		4.1	17		4.1
	18		4.1	18		2.6	18		4.3
	19		4.7	19		2.4	19		4.1
	20		6.4	20		6.6	20		4.4
		256	9.7		256	9.9		256	11.3
		257	9.6		257	10.2		257	10.6
		258	11.2		258	9.8		258	10.5
		259	10.6		259	10.8		259	10.5
		260	9.9		260	10.6		260	10.7
		261	6.7		261	8.2		261	7.7
		262	7.1		262	6.6		262	7.4
		263	6.2		263	6.6		263	8.4
		264	6.9		264	7.7		264	7.3
		265	6.9		265	6.5		265	8.9
		266	5.9		266	6.6		266	7.1
		267	7.6		267	6.8		267	7.9
		268	3.1		268	2.6		268	4.6
		269	2.9		269	3.4		269	5.4
		270	2.7		270	3.1		270	3.8
		271	2.3		271	3.1		271	4.1
		272	2.4		272	2.8		272	4.3
		273	2.7		273	3.0		273	5.0
		274	2.9		274	2.8		274	3.3
		275	2.9		275	3.3		275	4.1
		276	2.2		276	2.7		276	3.9
	0	256	7.2	0	256	5.6	0	256	7.8
	1	257	7.1	1	257	6.6	1	257	7.3
	2	258	8.3	2	258	6.9	2	258	6.8
	3	259	8.0	3	259	6.8	3	259	7.0
	4	260	7.6	4	260	7.5	4	260	7.4
	5	261	4.1	5	261	5.5	5	261	4.5
	6	262	4.8	6	262	3.2	6	262	4.1
	7	263	4.9	7	263	3.1	7	263	4.1
	8	264	4.4	8	264	5.5	8	264	4.3
	9	265	4.2	9	265	4.2	9	265	4.3
	10	266	3.7	10	266	3.1	10	266	4.3
	11	267	4.6	11	267	4.3	11	267	4.1
	12	268	-0.1	12	268	0.5	12	268	0.2
	13	269	0.1	13	269	-0.4	13	269	1.3
	14	270	0.0	14	270	-0.9	14	270	1.0
	15	271	0.2	15	271	-0.6	15	271	0.5
	16	272	-1.0	16	272	0.4	16	272	-0.6
	17	273	0.0	17	273	-0.2	17	273	0.5
	18	274	0.1	18	274	-1.2	18	274	0.6
	19	275	0.2	19	275	-0.6	19	275	0.5
	20	276	-0.2	20	276	0.7	20	276	-0.3

8. RF Exposure Conditions (Test Configurations)

8.1. Operating mode(s)

5G NR mmW band were tested Power density through FTM (Factory Test Mode) provided by manufacturer.

8.2. Test position Configurations

Power density evaluated at worst-surfaces according to test results of Power density Part.0 report.

Folder Close

Band	Antenna	Rear	Front	Top	Bottom	Right	Left
n258	Ant.H	Yes	No	No	No	Yes	No
n261	Ant.H	Yes	No	No	No	No	No
n260	Ant.H	Yes	No	No	No	Yes	No

Folder Open

Band	Antenna	Rear	Front	Top	Bottom	Right	Left
n258	Ant.H	Yes	No	No	No	Yes	No
n261	Ant.H	Yes	No	No	No	No	No
n260	Ant.H	Yes	No	No	No	Yes	No

Please refer to Appendix A for Antenna's location.

9. Dielectric Property & System Check

9.1. Dielectric Property

Media is air so Relative Permittivity (ϵ_r) and Conductivity (σ) is 1.

9.2. System Check

Per Nov 2017, TCB Workshop note,

System Check should be verified with 24 hours before DUT's PD test.

System check is verified using 5G verification source provide by the equipment manufacturer.

- the same spatial resolution and measurement region used in the waveguide calibration should be applied to system check
- 4 cm² spatial averaging have been used according to FCC requirement.
- power density distribution should also be verified, both spatially (shape) and numerically (level) through visual inspection for noticeable differences.
- the measured results should be within 10 % of the calibrated target.
- The SPEAG software requires a setting of '5.55 mm' for the correct set up.

SAR 9 Room

Date	Source SN	Source Cal. Due Data	Measured Total psPD for 4 cm ² (W/m ²)	Target (Ref. Value) (W/m ²)	Delta $\pm 10\%$ (within 0.66 dB)	Visual Inspection	Plot No.
2026-03-25	1082	2027-02-16	55.8	53.2	4.89	confirmed	
2026-03-26	1082	2027-02-16	56.3	53.2	5.83	confirmed	1
2026-03-27	1082	2027-02-16	55.4	53.2	4.14	confirmed	
2026-03-28	1082	2027-02-16	56.2	53.2	5.64	confirmed	
2026-03-29	1082	2027-02-16	54.6	53.2	2.63	confirmed	
2026-03-30	1082	2027-02-16	55.0	53.2	3.38	confirmed	
2026-03-31	1082	2027-02-16	54.3	53.2	2.07	confirmed	
2026-04-01	1082	2027-02-16	54.5	53.2	2.44	confirmed	
2026-04-08	1082	2027-02-16	55.1	53.2	3.57	confirmed	
2026-04-10	1082	2027-02-16	55.6	53.2	4.51	confirmed	

Note(s):

psPD value used the pS_{tot} avg value of test result plot.

10. Measured Power Density Results

Both Normal psPD and Total psPD are record in test results according to TCB workshop October 2018 note . But only Total psPD level are considered according to FCC requirement.

PD Measurement options for the PD verification test

The PD measurement test is time-consuming. Therefore, two options are recommened.

-.Option 1: hybrid approach using electromagnetic (EM) simulation in combination with the measurement as validation for PD characterization.

-.Option 2: Theoretical calculation based on the FCC mmW RF exposure requirement of 1 mW/cm² over any 4cm² area.

Among two options, We choose option 1 (using electromagnetic (EM) simulation).

- PD is assessed for all bands and beams, the three channels, and identified surfaces of the EUT through the validated simulation approach in *QRD SAR Char and PD Char for Qualcomm® Smart Transmit, Using Combination of Simulation and Measurement* ('80-W2112-2).
- The QRD assessment is made against the *PD_design_target* to account for all design related uncertainties to determine the maximum input power for the beams.

Beam selection criteria for the PD verification test

- Select at least one single beam (antenna array config) per antenna type and module
 - The single beam containing highest number of active antenna ports.

Since the worst-case surface dictates the compliance, the PD measurement can be made only on the worst surfaces and for the worst channel as determined through EM simulations.

EM Simulation Results**Folder Close**

Band	Position	Low			Mid			High			input.power. limit
		Beam ID 1	Beam ID 2	Sim.Value	Beam ID 1	Beam ID 2	Sim.Value	Beam ID 1	Beam ID 2	Sim.Value	
n258	Rear	18		1.089	18		1.190	18		1.249	4.1
			276	1.785		271	1.838		276	1.927	2.2
		16	272	3.900	16	272	4.002	16	272	3.951	-1.0
	Right	13		0.768	13		0.694	17		0.621	4.8
			276	0.754		271	0.811		276	0.836	2.2
		15	271	1.676	15	271	1.809	17	273	1.786	0.2
n261	Rear	14		1.513	14		1.535	14		1.504	2.2
			268	1.567		276	1.426		276	1.343	2.6
		14	270	3.095	18	274	3.126	18	274	3.045	-1.2
n260	Rear	12		1.353	18		1.229	19		1.275	3.9
			274	1.533		274	1.148		276	1.348	3.3
		12	268	3.063	16	272	3.646	16	272	3.764	-0.6
	Right	18		0.767	15		0.749	19		1.030	4.1
			271	0.457		275	0.682		270	0.647	4.1
		15	271	1.654	15	271	2.069	15	271	2.032	0.5

Folder Open

Band	Position	Low			Mid			High			input.power. limit
		Beam ID 1	Beam ID 2	Sim.Value	Beam ID 1	Beam ID 2	Sim.Value	Beam ID 1	Beam ID 2	Sim.Value	
n258	Rear	18		1.029	12		1.264	18		1.220	4.6
			271	1.961		276	1.841		276	1.850	2.3
		16	272	4.022	16	272	3.903	16	272	3.984	-1.0
	Right	13		0.686	13		0.687	13		0.594	4.8
			270	0.799		273	0.756		272	0.817	2.4
		13	269	1.609	17	273	1.703	16	272	1.838	-1.0
n261	Rear	14		1.678	14		1.633	14		1.699	2.2
			268	1.488		276	1.540		271	1.363	2.7
		18	274	3.745	18	274	3.455	18	274	3.256	-1.2
n260	Rear	12		1.635	18		1.692	16		1.491	4.3
			270	1.739		269	1.352		276	1.704	3.8
		12	268	3.576	16	272	4.397	16	272	3.975	-0.6
	Right	15		0.830	17		0.852	19		0.899	4.1
			270	0.635		272	0.723		275	0.893	4.1
		15	271	1.825	16	272	2.242	19	275	2.021	-0.6

Note(s):

The blue box represents the worst EM simulation values of among the channels for each bands.
Through this EM simulation, we can identify the worst-case surface, beam number, channel and determine the input.power.limit.
(Please refer to the Part.0 Report.)
Part.1 (sec.10.1~10.3) measured the Power Density measurements under these identified worst-case conditions.

10.1. NR Band n258 Test Results

Folder Close

Antenna	Dist. (mm)	Test Position	Freq. (MHz)	Ch.	Beam ID1	Beam ID2	input.power. limit (dBm)	Tested input.power. limit (dBm)	Tested Signal	Duty Cycle	Power Drift	Normal psPD (mW/cm ²)	Total psPD (mW/cm ²)	Plot No.
					V	H						Meas.	Meas.	
Ant.H	2 mm	Rear	25200.00	High	18		4.1	4.2	CW	100.0%	-0.03	0.431	0.539	1
Ant.H	2 mm	Rear	25200.00	High		276	2.2	2.3	CW	100.0%	-0.03	0.373	0.510	
Ant.H	2 mm	Rear	24800.04	Mid	16	272	-1.0	-0.9	CW	100.0%	0.01	0.301	0.483	
Ant.H	2 mm	Right	24350.04	Low	13		4.8	4.9	CW	100.0%	0.04	0.225	0.347	
Ant.H	2 mm	Right	25200.00	High		276	2.2	2.3	CW	100.0%	0.14	0.214	0.312	
Ant.H	2 mm	Right	24800.04	Mid	15	271	0.2	0.3	CW	100.0%	-0.02	0.330	0.397	

Folder Open

Antenna	Dist. (mm)	Test Position	Freq. (MHz)	Ch.	Beam ID1	Beam ID2	input.power. limit (dBm)	Tested input.power. limit (dBm)	Tested Signal	Duty Cycle	Power Drift	Normal psPD (mW/cm ²)	Total psPD (mW/cm ²)	Plot No.
					V	H						Meas.	Meas.	
Ant.H	2 mm	Rear	24800.04	Mid	12		4.6	4.7	CW	100.0%	-0.16	0.246	0.358	
Ant.H	2 mm	Rear	24350.04	Low		271	2.3	2.4	CW	100.0%	0.02	0.477	0.579	2
Ant.H	2 mm	Rear	24350.04	Low	16	272	-1.0	-0.9	CW	100.0%	0.04	0.236	0.294	
Ant.H	2 mm	Right	24800.04	Mid	13		4.8	4.9	CW	100.0%	-0.19	0.230	0.331	
Ant.H	2 mm	Right	25200.00	High		272	2.4	2.5	CW	100.0%	0.04	0.187	0.266	
Ant.H	2 mm	Right	25200.00	High	16	272	-1.0	-0.9	CW	100.0%	0.13	0.188	0.218	

10.2. NR Band n261 Test Results

Folder Close

Antenna	Dist. (mm)	Test Position	Freq. (MHz)	Ch.	Beam ID1	Beam ID2	input.power. limit (dBm)	Tested input.power. limit (dBm)	Tested Signal	Duty Cycle	Power Drift	Normal psPD (mW/cm ²)	Total psPD (mW/cm ²)	Plot No.
					V	H						Meas.	Meas.	
Ant.H	2 mm	Rear	27924.96	Mid	14		2.2	2.3	CW	100.0%	0.02	0.382	0.452	
Ant.H	2 mm	Rear	27550.08	Low		268	2.6	2.7	CW	100.0%	-0.11	0.465	0.663	3
Ant.H	2 mm	Rear	27924.96	Mid	18	274	-1.2	-1.1	CW	100.0%	0.06	0.404	0.463	

Folder Open

Antenna	Dist. (mm)	Test Position	Freq. (MHz)	Ch.	Beam ID1	Beam ID2	input.power. limit (dBm)	Tested input.power. limit (dBm)	Tested Signal	Duty Cycle	Power Drift	Normal psPD (mW/cm ²)	Total psPD (mW/cm ²)	Plot No.
					V	H						Meas.	Meas.	
Ant.H	2 mm	Rear	28299.96	High	14		2.2	2.3	CW	100.0%	0.09	0.407	0.479	
Ant.H	2 mm	Rear	27924.96	Mid		276	2.7	2.8	CW	100.0%	0.04	0.502	0.638	4
Ant.H	2 mm	Rear	27550.08	Low	18	274	-1.2	-1.1	CW	100.0%	0.09	0.399	0.452	

Note(s):

- 10 W/m² = 1.0 mW/cm²
- PD_design_target of 0.724 mW/cm² was used with mmW device design related uncertainty of 1.4 dB.
- Input.power.limit parameter for 5G mmW NR radio was calculated in Power Density Part 0 test report.
- The device was configured to transmit CW wave signal for testing. Additional testing was not evaluated for different modulations, RB configurations, component carriers, channel configurations since the smart transmit algorithm monitors powers on a per symbol basis, which is independent of these signal characteristics.

10.3. NR Band n260 Test Results

Folder Close

Antenna	Dist. (mm)	Test Position	Freq. (MHz)	Ch.	Beam ID1	Beam ID2	input.power.limit (dBm)	Tested input.power.limit (dBm)	Tested Signal	Duty Cycle	Power Drift	Normal psPD (mW/cm ²)	Total psPD (mW/cm ²)	Plot No.
					H	V						Meas.	Meas.	
Ant.H	2 mm	Rear	37050.00	Low	12		3.9	4.0	CW	100.0%	-0.01	0.391	0.516	
Ant.H	2 mm	Rear	37050.00	Low		274	3.3	3.4	CW	100.0%	0.24	0.539	0.669	5
Ant.H	2 mm	Rear	39949.92	High	16	272	-0.6	-0.5	CW	100.0%	0.10	0.387	0.503	
Ant.H	2 mm	Right	39949.92	High	19		4.1	4.2	CW	100.0%	-0.06	0.353	0.364	
Ant.H	2 mm	Right	38499.96	Mid		275	4.1	4.2	CW	100.0%	0.13	0.106	0.135	
Ant.H	2 mm	Right	38499.96	Mid	15	271	0.5	0.6	CW	100.0%	0.12	0.159	0.180	

Folder Open

Antenna	Dist. (mm)	Test Position	Freq. (MHz)	Ch.	Beam ID1	Beam ID2	input.power.limit (dBm)	Tested input.power.limit (dBm)	Tested Signal	Duty Cycle	Power Drift	Normal psPD (mW/cm ²)	Total psPD (mW/cm ²)	Plot No.
					H	V						Meas.	Meas.	
Ant.H	2 mm	Rear	38499.96	Mid	18		4.3	4.4	CW	100.0%	-0.08	0.588	0.642	
Ant.H	2 mm	Rear	37050.00	Low		270	3.8	3.9	CW	100.0%	0.02	0.582	0.680	6
Ant.H	2 mm	Rear	38499.96	Mid	16	272	-0.6	-0.5	CW	100.0%	0.02	0.205	0.332	
Ant.H	2 mm	Right	39949.92	High	19		4.1	4.2	CW	100.0%	0.15	0.342	0.354	
Ant.H	2 mm	Right	39949.92	High		275	4.1	4.2	CW	100.0%	0.05	0.135	0.169	
Ant.H	2 mm	Right	38499.96	Mid	16	272	-0.6	-0.5	CW	100.0%	0.11	0.115	0.160	

Note(s):

1. $10 \text{ W/m}^2 = 1.0 \text{ mW/cm}^2$
2. *PD_design_target* of 0.724 mW/cm^2 was used with mmW device design related uncertainty of 1.4 dB.
3. *Input.power.limit* parameter for 5G mmW NR radio was calculated in Power Density Part 0 test report.
4. The device was configured to transmit CW wave signal for testing. Additional testing was not evaluated for different modulations, RB configurations, component carriers, channel configurations since the smart transmit algorithm monitors powers on a per symbol basis, which is independent of these signal characteristics.

11. TER (Total Exposure Ratio) Conditions

Per FCC guidance for devices enabled with Qualcomm® Smart Transmit feature, simultaneous transmission analysis is evaluated by combining the exposure the NFC/UWB antenna.

The simultaneous transmission scenario for 5G mmW NR FR2, NFC/UWB antenna. Is evaluated under the Total Exposure Ratio (TER).

Exposure scaling for mmW radios

i. On the worst-case surface/position (dominant): PD exposure should correspond to reported input.power.limit, i.e., PD exposure should be equal to $Reported_psPD = (PD_design_target + device\ uncertainty)$ if at least one beam has $input.power.limit \leq NV$ setting Pmax, PD exposure should be equal to PD design target.

ii. For all other surfaces/positions (non-dominant): it is exposure ratio (of evaluated surface/position to worst-case surface/position for a given Tx Power) multiplied by scaled PD exposure on the worst-case surface as computed above.

Note: If manufacturer applies Permanent back-off, it is reflected in $Reported_psPD$ (PD design_target + device uncertainty). The formula is as follows;

$$Reported_psPD = (PD_design_target + device\ uncertainty) \times 10^{(-Permanent\ back-off\ in\ dB/10)}$$

Permanent back-off is mentioned in the PD Part.0 report.

PD(Reported psPD) ER for TER analysis – 2 mm

Antenna	NR Band	Surface	Evaluation Distance (mm)	Folder Close				Folder Open			
				Adjustment Factor due to Simulation	Adjusted Reported psPD (mW/cm²)	Measured psPD (mW/cm²)	Final Reported psPD (mW/cm²)	Adjustment Factor due to Simulation	Adjusted Reported psPD (mW/cm²)	Measured psPD (mW/cm²)	Final Reported psPD (mW/cm²)
Ant.H H patch	n258	Rear	2	1.000	0.977	0.539	0.977	1.000	0.977	0.579	0.977
	n258	Front	2	0.161	0.157	-	0.157	0.415	0.405	-	0.405
	n258	Top	2	0.490	0.479	-	0.479	0.568	0.555	-	0.555
	n258	Left	2	0.062	0.061	-	0.061	0.014	0.014	-	0.014
	n258	Bottom	2	0.065	0.064	-	0.064	0.068	0.067	-	0.067
	n258	Right	2	0.962	0.940	0.397	0.940	0.875	0.855	0.331	0.855
	n261	Rear	2	1.000	0.977	0.663	0.977	1.000	0.977	0.638	0.977
	n261	Front	2	0.170	0.166	-	0.166	0.506	0.494	-	0.494
	n261	Top	2	0.524	0.512	-	0.512	0.511	0.499	-	0.499
	n261	Left	2	0.078	0.076	-	0.076	0.013	0.013	-	0.013
	n261	Bottom	2	0.039	0.038	-	0.038	0.090	0.088	-	0.088
	n261	Right	2	0.696	0.680	-	0.680	0.623	0.609	-	0.609
	n260	Rear	2	1.000	0.977	0.669	0.977	1.000	0.977	0.680	0.977
	n260	Front	2	0.085	0.083	-	0.083	0.505	0.493	-	0.493
	n260	Top	2	0.488	0.477	-	0.477	0.569	0.556	-	0.556
	n260	Left	2	0.075	0.073	-	0.073	0.014	0.013	-	0.013
	n260	Bottom	2	0.051	0.050	-	0.050	0.125	0.122	-	0.122
	n260	Right	2	0.808	0.789	0.364	0.789	0.762	0.744	0.354	0.744

Note(s):

The 'Final reported psPD' results was applied to the TER evaluation with a higher value by comparing the measured psPD result to the adjusted psPD result.

PD(Reported psPD) ER for TER analysis – 10 mm

Antenna	NR Band	Surface	Evaluation Distance (mm)	Folder Close				Folder Open			
				Adjustment Factor due to Simulation	Adjusted Reported psPD (mW/cm ²)	Measured psPD (mW/cm ²)	Final Reported psPD (mW/cm ²)	Adjustment Factor due to Simulation	Adjusted Reported psPD (mW/cm ²)	Measured psPD (mW/cm ²)	Final Reported psPD (mW/cm ²)
Ant.M L patch	n258	Rear	10	0.600	0.586	-	0.586	0.582	0.569	-	0.569
	n258	Front	10	0.068	0.066	-	0.066	0.148	0.145	-	0.145
	n258	Top	10	0.322	0.314	-	0.314	0.419	0.409	-	0.409
	n258	Left	10	0.052	0.050	-	0.050	0.009	0.009	-	0.009
	n258	Bottom	10	0.054	0.052	-	0.052	0.044	0.043	-	0.043
	n258	Right	10	0.398	0.389	-	0.389	0.350	0.342	-	0.342
	n261	Rear	10	0.686	0.670	-	0.670	0.710	0.693	-	0.693
	n261	Front	10	0.082	0.080	-	0.080	0.203	0.199	-	0.199
	n261	Top	10	0.293	0.286	-	0.286	0.301	0.294	-	0.294
	n261	Left	10	0.059	0.058	-	0.058	0.008	0.008	-	0.008
	n261	Bottom	10	0.031	0.030	-	0.030	0.038	0.037	-	0.037
	n261	Right	10	0.318	0.311	-	0.311	0.350	0.342	-	0.342
	n260	Rear	10	0.818	0.799	-	0.799	0.942	0.920	-	0.920
	n260	Front	10	0.040	0.039	-	0.039	0.340	0.333	-	0.333
	n260	Top	10	0.322	0.315	-	0.315	0.372	0.363	-	0.363
	n260	Left	10	0.056	0.055	-	0.055	0.009	0.008	-	0.008
	n260	Bottom	10	0.035	0.034	-	0.034	0.065	0.064	-	0.064
	n260	Right	10	0.465	0.454	-	0.454	0.437	0.427	-	0.427

Note(s):

The 'Final reported psPD' results was applied to the TER evaluation with a higher value by comparing the measured psPD result to the adjusted psPD result.

Head (DSI=2, 3) exposure Analysis**PD+ER Summation Results**

RF exposure	Conditionn	Test position	PD		Test position	SAR		TER (Total Exposure Ratio)
			Adjusted psPD	psPD ER		UWB Measured SAR	SAR ER	
Head	Folder Close	Front	0.166	0.166	Front	0.006	0.004	0.17
	Folder Open	Rear	0.977	0.977	Rear	0.002	0.001	0.98

Body-worn & Hotspot (DSI=0, 1) exposure Analysis**PD+ER Summation Results**

RF exposure	Condition	Test position	PD		SAR		TER (Total Exposure Ratio)
			Adjusted psPD	psPD ER	UWB Measured SAR	SAR ER	
Body-worn & Hotspot	Folder Close	Rear	0.977	0.977	0.005	0.003	0.98
		Front	0.166	0.166	0.006	0.004	0.17
		Top	0.315	0.315		0.000	0.31
		Left	0.058	0.058		0.000	0.06
		Bottom	0.053	0.053		0.000	0.05
		Right	0.454	0.454		0.000	0.45
	Folder Open	Rear	0.977	0.977	0.002	0.001	0.98
		Front	0.494	0.494	0.004	0.003	0.50
		Top	0.409	0.409		0.000	0.41
		Left	0.009	0.009		0.000	0.01
		Bottom	0.064	0.064		0.000	0.06
		Right	0.427	0.427		0.000	0.43

Note(s):

1. Used 2 mm PD ER in TER calculation of Body-worn.
2. PD TER calculation of Head/Body-worn/Hotspot performed with ER (UWB). Additional evaluation is not required due to below TER limit

Product Specific 10-g (DSI=0, 1) exposure Analysis**PD+ER Summation Results**

RF exposure	Condition	Test position	PD		SAR			TER (Total Exposure Ratio)
			Adjusted psPD	psPD ER	UWB Measured SAR	NFC Measured SAR	SUM SAR ER (UWB+NFC)	
Product Specific 10-g	Folder Close	Rear	0.977	0.977	0.002	0.014	0.004	0.98
		Front	0.166	0.166	0.003	0.000	0.001	0.17
		Top	0.512	0.512	0.002	0.000	0.001	0.51
		Left	0.076	0.076		0.000	0.000	0.08
		Bottom	0.064	0.064			0.000	0.06
		Right	0.940	0.940			0.000	0.94
	Folder Open	Rear	0.977	0.977	0.000	0.014	0.004	0.98
		Front	0.494	0.494	0.002	0.000	0.001	0.49
		Top	0.556	0.556	0.000	0.000	0.000	0.56
		Left	0.014	0.014			0.000	0.01
		Bottom	0.122	0.122			0.000	0.12
		Right	0.855	0.855			0.000	0.85

Note(s):

PD TER calculation of Product Specific 10-g performed with ER (NFC & UWB).
Additional evaluation is not required due to below TER limit.

Conclusion

Simultaneous transmission analysis results is satisfied the FCC TER limit requirement (1.0).

Appendixes

Refer to separated files for the following appendixes.

S-4792147575-S2 FCC Report PD App A Photos

S-4792147575-S2 FCC Report PD App B Test Plots

S-4792147575-S2 FCC Report PD App C System Plots

S-4792147575-S2 FCC Report PD App D Probe Certi

S-4792147575-S2 FCC Report PD App E Source Certi

END OF REPORT