

ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)
7185 Oakland Mills Road, Columbia, MD 21046 USA
Tel. +1.410.290.6652 / Fax +1.410.290.6654
http://www.element.com



COMPLIANCE SUMMARY REPORT

Applicant Name:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Maetan dong, Yeongtong-gu, Suwon-si Gyeonggi-do, 16677, Korea Test Site/Location: Element, Columbia, MD, USA Document Serial No.: 1M2501020001-04.A3L

FCC ID: A3LSMG766U

APPLICANT: SAMSUNG ELECTRONICS CO., LTD

Report Type: Compliance Summary

DUT Type: Portable Handset

Model(s): SM-G766U Additional Model(s): SM-G766U1



FCC ID: A3LSMG766U	COMPLIANCE SUMMARY REPORT	Approved by: Technical Manager
Document S/N: 1M2501020001-04.A3L	DUT Type: Portable Handset	Page 1 of 9



TABLE OF CONTENTS

1	STR	ATEGY FOR COMPLIANCE DEMONSTRATION	3
	1.1	RF Exposure Evaluation Strategy	3
	1.2	Nomenclature	4
	1.3	Bibliography	4
2	TIM	E AVERAGING ALGORITHM	5
	2.1	Algorithm Description	5
	2.2	Basic concept of the algorithm	5
	2.3	Configurable Parameters	7
3	DUT	DESCRIPTION	8
	3.1	Device Overview	8
4	CO	MPLIANCE SUMMARY	9
	4.1	RF Exposure Compliance Summary	9

FCC ID: A3LSMG766U	COMPLIANCE SUMMARY REPORT	Approved by: Technical Manager
Document S/N: 1M2501020001-04.A3L	DUT Type: Portable Handset	Page 2 of 9



STRATEGY FOR COMPLIANCE DEMONSTRATION

1.1 RF Exposure Evaluation Strategy

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

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

0. RF Exposure Compliance Test Report Part 0: SAR Characterization

The SAR Characterization, denoted as SAR 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 and WLAN, SAR Char is derived from SAR test measurements and conducted power measurements to determine P_{Limit} for each technology/band. The P_{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 limits when transmitting at pre-determined maximum time-averaged power level: P_{Limit} for 2G/3G/4G/5G and WLAN. The SAR measurement in Part 1 is under static transmission condition.

The compliance for BT radio is demonstrated at a fixed power level (fixed = maximum RF tune-up level or power-back off level).

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 and Qualcomm FastConnect 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 and Qualcomm FastConnect algorithm.

FCC ID: A3LSMG766U	COMPLIANCE SUMMARY REPORT	Approved by: Technical Manager
Document S/N: 1M2501020001-04.A3L	DUT Type: Portable Handset	Page 3 of 9



1.2 Nomenclature

Applicable Technologies	Term	Description	
	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	
WWAN,	T_{SAR}	Defined time averaging window for <i>f</i> < 6 GHz	
WLAN	SAR_design_target	Target SAR level resulting in maximum time-averaged exposure optimized from total uncertainty	
	SAR Char	Table containing <i>Plimit</i> for all technologies	
	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	1M2501020001-02.A3L
RF Exposure Part 1 Test Report	1M2501020001-01.A3L
RF Exposure Part 2 Test Report	1M2501020001-03.A3L

FCC ID: A3LSMG766U	COMPLIANCE SUMMARY REPORT	Approved by: Technical Manager
Document S/N: 1M2501020001-04.A3L	DUT Type: Portable Handset	Page 4 of 9



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 and Qualcomm FastConnect algorithms enable 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} for specific absorption rate (SAR for transmit frequency < 6 GHz).

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 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 and FastConnect 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, timeaveraged 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 in this report.
- The wireless device continuously transmitting at P_{Limit} level 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.

2.2 Basic concept of the algorithm

The Smart Transmit algorithm and FastConnect 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} , then the modem needs to limit instantaneous transmit power to ensure the time-averaged transmit power does not exceed P_{Limit} in any T_{SAR} time windows since the time-averaged RF exposure is required to comply with the FCC RF exposure limit in any T_{SAR} time window.
- The wireless device can instantaneously transmit at high transmit powers and exceed the P_{I imit} level for a short duration before limiting the power to maintain the time-averaged transmit power under PLimit.
- 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 and FastConnect Algorithm starts the power limiting enforcement earlier in time to back off the Tx power to a reserve level (denoted as

FCC ID: A3LSMG766U	COMPLIANCE SUMMARY REPORT	Approved by: Technical Manager
Document S/N: 1M2501020001-04.A3L	DUT Type: Portable Handset	Page 5 of 9
		DEV.4.4



Preserve), 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 PLimit at all times (see Figure 2-2). At all times, Smart Transmit and FastConnect 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.

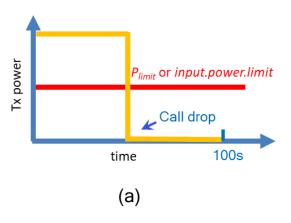


Figure 2-1 Transmit at high power when needed and permitted

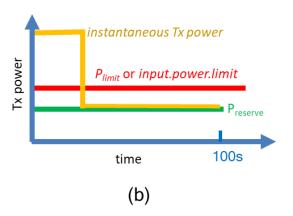


Figure 2-2 Transmit with reserve power to support continuous transmission at a minimum power level (Preserve)

FCC ID: A3LSMG766U	COMPLIANCE SUMMARY REPORT	Approved by: Technical Manager
Document S/N: 1M2501020001-04.A3L	DUT Type: Portable Handset	Page 6 of 9



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

$$\sum \frac{\frac{1}{T_{SAR}} \int_{t-T_{SAR}}^{t} SAR(t) \, dt}{FCC \, SAR \, limit} \leq 1$$

Equation 2-2

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
regulatory body	 Inputs of "0" and "1" corresponding to FCC and ICNIRP requirements for the averaging time windows. For FCC, algorithm uses an averaging window of 100 seconds for f < 3 GHz, 60 seconds for 3 GHz < f < 6 GHz, and 4 seconds for 24 GHz < f < 42 GHz.
Tx_power_at_SAR_design_target (P _{Limit} in dBm) f < 6 GHz	The maximum time-averaged transmit power, in dBm, corresponding to the SAR_design_target.
	SAR_design_target 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 SAR_design_target in real time to determine the compliance.
	<i>P</i> _{Limit} could vary with technology, band and Device State Index (DSI) and therefore, it has the unique value for each technology, band and DSI.

FCC ID: A3LSMG766U	COMPLIANCE SUMMARY REPORT	Approved by: Technical Manager
Document S/N: 1M2501020001-04.A3L	DUT Type: Portable Handset	Page 7 of 9



3 DUT DESCRIPTION

3.1 Device Overview

GSM/GPRS/EDGE 850	Band & Mode	Operating Modes	Tx Frequency
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 26 Voice/Data 1710.7 - 1779.3 MHz LTE Band 66 Voice/Data 1710.7 - 1779.3 MHz LTE Band 67 Voice/Data 1710.7 - 1779.3 MHz LTE Band 25 Voice/Data 1850.7 - 1914.3 MHz LTE Band 27 Voice/Data 1850.7 - 1909.3 MHz LTE Band 28 Voice/Data 1850.7 - 1909.3 MHz LTE Band 30 Voice/Data 1850.7 - 1909.3 MHz LTE Band 30 Voice/Data 2307.5 - 2312.5 MHz LTE Band 41 Voice/Data 2502.5 - 2667.5 MHz LTE Band 47 Voice/Data 2572.5 - 2617.5 MHz LTE Ba	GSWGPRS/EDGE 850	Voice/Data	824.20 - 848.80 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 - 1779.3 MHz LTE Band 25 Voice/Data 1850.7 - 1914.3 MHz LTE Band 25 Voice/Data 1850.7 - 1909.3 MHz LTE Band 25 Voice/Data 1850.7 - 1909.3 MHz LTE Band 2 Voice/Data 2502.5 - 2567.5 MHz LTE Band 30 Voice/Data 2502.5 - 2567.5 MHz LTE Band 41 Voice/Data 2502.5 - 2687.5 MHz LTE Band 48 Voice/Data 2572.5 - 2617.5 MHz NR Band n71 Voice/Data 3552.5 - 3697.5 MHz NR Band	GSMGPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 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 66 Voice/Data 1710.7 - 1779.3 MHz LTE Band 2 Voice/Data 1850.7 - 1914.3 MHz LTE Band 2 Voice/Data 1850.7 - 1914.3 MHz LTE Band 30 Voice/Data 2307.5 - 2312.5 MHz LTE Band 30 Voice/Data 2307.5 - 2312.5 MHz LTE Band 41 Voice/Data 2502.5 - 2687.5 MHz LTE Band 43 Voice/Data 2572.5 - 2687.5 MHz LTE Band 44 Voice/Data 2572.5 - 2687.5 MHz LTE Band 47 Voice/Data 2572.5 - 2687.5 MHz LTE Band 48 Voice/Data 3552.5 - 3697.5 MHz NR Band n71 Voice/Data 665.5 - 695.5 MHz NR Band n61 Voice/Data 826.5 - 846.5 MHz NR Band n70 Voice/Data 1697.5 - 1777.5 MHz NR Band n60 Voice/Data 1852.5 - 1912.5 MHz NR Band n60 Voice/Data 1852.5 - 1912.5 MHz NR Band n61 Voice/Data 1852.5 - 1912.5 MHz NR Band n62 Voice/Data 1852.5 - 1912.5 MHz NR Band n63 Voice/Data 2572.5 - 2312.5 MHz NR Band n64 Voice/Data 1852.5 - 1912.5 MHz NR Band n70 Voice/Data 1852.5 - 1912.5 MHz NR Band n80 Voice/Data 2507.5 - 2312.5 MHz NR Band n90 Voice/Data 1852.5 - 1912.5 MHz NR Band n90 Voice/Data 2507.5 - 2312.5 MHz U-NII-2.5 560 - 5720 MHz U-NII-2.5 560 - 5320 MHz U-NII-2.5 563 - 6875 MHz U-NII-2.5 5645 - 6415 MHz U-NII-2.5 5645 - 6415 MHz U-NII-2.5 5645 - 6415 MHz U-NII-3 5845 - 6	UMTS 850	Voice/Data	826.40 - 846.60 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 1710.7 - 1779.3 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 - 1914.3 MHz LTE Band 30 Voice/Data 2307.5 - 2312.5 MHz LTE Band 31 Voice/Data 2502.5 - 2687.5 MHz LTE Band 41 Voice/Data 2502.5 - 2687.5 MHz LTE Band 43 Voice/Data 2502.5 - 2687.5 MHz LTE Band 44 Voice/Data 2502.5 - 2687.5 MHz LTE Band 45 Voice/Data 2502.5 - 2687.5 MHz LTE Band 46 Voice/Data 2552.5 - 3697.5 MHz LTE Band 47 Voice/Data 2552.5 - 3697.5 MHz LTE Band 48 Voice/Data 3352.5 - 3697.5 MHz NR Band n71 Voice/Data 665.5 - 695.5 MHz NR Band n71 Voice/Data 665.5 - 695.5 MHz NR Band n71 Voice/Data 826.5 - 846.5 MHz NR Band n66 Voice/Data 1697.5 - 1707.5 MHz NR Band n60 Voice/Data 1852.5 - 1912.5 MHz NR Band n70 Voice/Data 1852.5 - 1912.5 MHz NR Band n20 Voice/Data 1852.5 - 1912.5 MHz NR Band n20 Voice/Data 2507.5 - 2312.5 MHz NR Band n30 Voice/Data 2507.5 - 2312.5 MHz NR Band n41 Voice/Data 2507.5 - 2312.5 MHz NR Band n48 Voice/Data 2507.5 - 2312.5 MHz NR Band n49 Voice/Data 2507.5 - 3795 MHz U-NII-2: 5180 - 5240 MHz U-NII-2: 5560 - 5720 MHz U-NII-2: 5580 - 5825 MHz U-NII-2: 5580 - 5835 MHz U-NII-2: 5580 - 5835 MHz U-NII-2: 5580 - 5835 MHz U-NII-2: 5635 - 6875 MHz U-NII-3: 6835 - 6815 MHz U-NII-3: 6835 - 6815 MHz U-NII-3: 6835 - 6815 MHz U-NI	UMTS 1750	Voice/Data	1712.4 - 1752.6 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 25 Voice/Data 1710.7 - 1779.3 MHz LTE Band 25 Voice/Data 1850.7 - 1914.3 MHz LTE Band 2 Voice/Data 1850.7 - 1914.3 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 48 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 n5 Voice/Data 1697.5 - 1707.5 MHz NR Band n66 Voice/Data 1697.5 - 1707.5 MHz NR Band n66 Voice/Data 1712.5 - 1777.5 MHz NR Band n66 Voice/Data 1852.5 - 1907.5 MHz NR Band n2 Voice/Data 1852.5 - 1907.5 MHz NR Band n30 Voice/Data 2307.5 - 2312.5 MHz NR Band n41 Voice/Data 1712.5 - 1777.5 MHz NR Band n66 Voice/Data 1712.5 - 1777.5 MHz NR Band n67 Voice/Data 1852.5 - 1907.5 MHz NR Band n68 Voice/Data 2307.5 - 2312.5 MHz NR Band n44 Voice/Data 2307.5 - 2312.5 MHz NR Band n45 Voice/Data 2307.5 - 3312.5 MHz NR Band n66 Voice/Data 2307.5 - 3312.5 MHz NR Band n67 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555 - 3694.98 MHz; 3705 - 3975 MHz Voice/Data 2412 - 2462 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5545 - 6815 MHz U-NII-2: 5580 - 5320 MHz U-NII-2: 5580 - 5320 MHz U-NII-2: 5580 - 5320 MHz U-NII-2: 5585 - 6615 MHz U-NII-2: 5635 - 66875 MHz U-NII-2: 5635 - 66875 MHz U-NII-3: 5745 - 5825 MHz U-NII-3: 5745 - 5825 MHz U-NII-3: 6635 - 6615 MHz U-NII-3: 6635 - 6635 MHz U-NII-3: 6635 - 6615 MHz U-NII-3: 6635 - 6615 MHz U-NII-3: 6635 - 6615	UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 13	LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 14	LTE Band 12	Voice/Data	699.7 - 715.3 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 - 1779.3 MHz LTE Band 25 Voice/Data 1850.7 - 1914.3 MHz LTE Band 2 Voice/Data 1850.7 - 1914.3 MHz LTE Band 2 Voice/Data 1850.7 - 1914.3 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 n8 Voice/Data 790.5 - 795.5 MHz NR Band n9 Voice/Data 826.5 - 846.5 MHz NR Band n6 Voice/Data 1712.5 - 1707.5 MHz NR Band n70 Voice/Data 1712.5 - 1707.5 MHz NR Band n66 Voice/Data 1712.5 - 1707.5 MHz NR Band n2 Voice/Data 1852.5 - 1907.5 MHz NR Band n2 Voice/Data 1852.5 - 1907.5 MHz NR Band n30 Voice/Data 2307.5 - 2312.5 MHz NR Band n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555 - 3694.98 MHz NR Band n77 Voice/Data 2412 - 2462 MHz Voice/Data 1412.5 - 5240 MHz Voice/Data 2412 - 2462 MHz U-NII-2: 5180 - 5240 MHz U-NII-2: 5580 - 5320 MHz U-NII-2: 5585 - 6875 MHz U-NII-2: 5845 - 6875 MHz U-NII-3: 5745 - 5825 MHz U-NII-2: 5845 - 5885 MHz U-NII-3: 5745 - 5825 MHz U-NII-1: 7635 - 6875 MHz U-NII-1: 6435 - 6875 MHz U-NII-1: 6435 - 6875 MHz U-NII-1: 6345 - 6875 MHz U-NII-1: 6345 - 6875 MHz U-NII-1: 6345 - 6875 MHz U-NII-3: 6895 - 7115 MHz 24 GHz Bluetooth Data 2402 - 2480 MHz	LTE Band 13	Voice/Data	779.5 - 784.5 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 - 1914.3 MHz LTE Band 2 Voice/Data 1850.7 - 1914.3 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 n71 Voice/Data 790.5 - 795.5 MHz NR Band n8 Voice/Data 826.5 - 846.5 MHz NR Band n70 Voice/Data 1852.5 - 1707.5 MHz NR Band n66 Voice/Data 1712.5 - 1707.5 MHz NR Band n66 Voice/Data 1852.5 - 1912.5 MHz NR Band n2 Voice/Data 1852.5 - 1907.5 MHz NR Band n30 Voice/Data 1852.5 - 1907.5 MHz NR Band n41 Voice/Data 2307.5 - 2312.5 MHz NR Band n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555 - 3694.98 MHz NR Band n77 Voice/Data 3455.01 - 3544.98 MHz; 3705 - 3975 MHz Voice/Data 1452.5 - 399.4 MHz Voice/Data 2412 - 2462 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5580 - 5320 MHz U-NII-2: 55845 - 6815 MHz U-NII-2: 55845 - 6815 MHz U-NII-2: 55845 - 6815 MHz U-NII-2: 55805 - 5320 MHz U-NII-2: 55845 - 6815 MHz U-NII-3: 6835 - 6875 MHz U-NII-6: 6435 - 6815 MHz U-NII-6: 6435 - 6815 MHz U-NII-6: 6435 - 6815 MHz U-NII-7: 6535 - 68675 MHz U-NII-8: 6895 - 7115 MHz 2402 - 2480 MHz	LTE Band 14	Voice/Data	790.5 - 795.5 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 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 n71 Voice/Data 790.5 - 795.5 MHz NR Band n6 Voice/Data 826.5 - 846.5 MHz NR Band n70 Voice/Data 1712.5 - 1707.5 MHz NR Band n66 Voice/Data 1712.5 - 1707.5 MHz NR Band n66 Voice/Data 1852.5 - 1907.5 MHz NR Band n2 Voice/Data 1852.5 - 1907.5 MHz NR Band n30 Voice/Data 2307.5 - 2312.5 MHz NR Band n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555 - 3694.98 MHz NR Band n77 Voice/Data 2412 - 2462 MHz U-NII-2: 544.98 MHz; 3705 - 3395 MHz 3455.01 - 3544.98 MHz; 3705 - 3395 MHz Voice/Data Voice/Data 2412 - 2462 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5545 - 5885 MHz U-NII-2: 5545 - 6875 MHz U-NII-2: 5545 - 6875 MHz U-NII-2: 5545 - 6875 MHz U-NII-3: 5745 - 5825 MHz U-NII-3: 5745 - 5825 MHz U-NII-6: 6435 - 6515 MHz U-NII-6: 6435 - 6615 MHz	LTE Band 26	Voice/Data	814.7 - 848.3 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 - 1914.3 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 2592.5 - 2687.5 MHz LTE Band 43 Voice/Data 2572.5 - 2687.5 MHz LTE Band 48 Voice/Data 2572.5 - 2617.5 MHz LTE Band 48 Voice/Data 33552.5 - 3697.5 MHz NR Band n71 Voice/Data 665.5 - 695.5 MHz NR Band n81 Voice/Data 790.5 - 795.5 MHz NR Band n91 Voice/Data 826.5 - 846.5 MHz NR Band n65 Voice/Data 1697.5 - 1707.5 MHz NR Band n70 Voice/Data 1697.5 - 1707.5 MHz NR Band n66 Voice/Data 1852.5 - 1912.5 MHz NR Band n2 Voice/Data 1852.5 - 1912.5 MHz NR Band n30 Voice/Data 1852.5 - 1912.5 MHz NR Band n30 Voice/Data 2307.5 - 2312.5 MHz NR Band n41 Voice/Data 2501.01 - 2685 MHz NR Band n78 Voice/Data 3455.01 - 3544.98 MHz; 3705 - 3975 MHz Voice/Data 2412 - 2462 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5545 - 6815 MHz U-NII-2: 5545 - 6855 MHz U-NII-3: 5745 - 5825 MHz U-NII-6: 6435 - 6515 MHz U-NII-6: 6435 - 6515 MHz U-NII-6: 6435 - 6615 MHz U-NII-6: 6535 - 66875 MHz U-NII-6: 6535 - 66875 MHz U-NII-7: 6535 - 66875 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	LTE Band 5	Voice/Data	824.7 - 848.3 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 2498.5 - 2687.5 MHz LTE Band 48 Voice/Data 3552.5 - 3697.5 MHz NR Band n71 Voice/Data 665.5 - 695.5 MHz NR Band n71 Voice/Data 790.5 - 795.5 MHz NR Band n5 Voice/Data 826.5 - 846.5 MHz NR Band n6 Voice/Data 1697.5 - 1707.5 MHz NR Band n66 Voice/Data 1712.5 - 1777.5 MHz NR Band n65 Voice/Data 1852.5 - 1907.5 MHz NR Band n2 Voice/Data 1852.5 - 1907.5 MHz NR Band n30 Voice/Data 2307.5 - 2312.5 MHz NR Band n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555 - 3694.98 MHz NR Band n77 Voice/Data 3455.01 - 3544.98 MHz; 3705 - 3975 MHz Voice/Data 2412 - 2462 MHz U-NIII-2: 5500 - 5720 MHz U-NIII-2: 5580 - 5320 MHz U-NIII-2: 55845 - 6815 MHz U-NIII-2: 55845 - 6885 MHz U-NIII-2: 55845 - 6885 MHz U-NIII-2: 55845 - 6885 MHz U-NIII-2: 5580 - 5320 MHz U-NIII-2: 55845 - 6885 MHz U-NIII-3: 5745 - 5825 MHz U-NIII-3: 5745 - 6415 MHz U-NIII-3: 6835 - 6615 MHz U-NIII-3: 6835 - 6875 MHz U-NIII-3: 6835 - 6875 MHz	LTE Band 66	Voice/Data	1710.7 - 1779.3 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 - 2687.5 MHz LTE Band 48 Voice/Data 3552.5 - 3697.5 MHz NR Band n71 Voice/Data 665.5 - 695.5 MHz NR Band n71 Voice/Data 790.5 - 795.5 MHz NR Band n5 Voice/Data 826.5 - 846.5 MHz NR Band n66 Voice/Data 1697.5 - 1707.5 MHz NR Band n66 Voice/Data 1712.5 - 1777.5 MHz NR Band n25 Voice/Data 1852.5 - 1907.5 MHz NR Band n2 Voice/Data 1852.5 - 1907.5 MHz NR Band n2 Voice/Data 2307.5 - 2312.5 MHz NR Band n41 Voice/Data 2501.01 - 2685 MHz NR Band n41 Voice/Data 3555 - 3694.98 MHz NR Band n77 Voice/Data 3455.01 - 3544.98 MHz; 3705 - 3795 MHz Voice/Data 2412 - 2462 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5545 - 6415 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5545 - 6415 MHz U-NII-3: 5745 - 5825 MHz U-NII-3: 5745 - 6415 MHz U-NII-3: 6535 - 6675 MHz	LTE Band 4	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 30	LTE Band 25	Voice/Data	1850.7 - 1914.3 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 n14 Voice/Data 790.5 - 795.5 MHz NR Band n5 Voice/Data 826.5 - 846.5 MHz NR Band n5 Voice/Data 1697.5 - 1707.5 MHz NR Band n66 Voice/Data 1712.5 - 1777.5 MHz NR Band n66 Voice/Data 1852.5 - 1912.5 MHz NR Band n2 Voice/Data 1852.5 - 1912.5 MHz NR Band n2 Voice/Data 2307.5 - 2312.5 MHz NR Band n30 Voice/Data 2307.5 - 2312.5 MHz NR Band n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3455.01 - 3544.98 MHz NR Band n77 Voice/Data 3455.01 - 3544.98 MHz 412 - 2462 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5845 - 5885 MHz U-NII-2: 5845 - 6415 MHz U-NII-6: 6435 - 6875 MHz U-NII-6: 6435 - 6615 MHz U-NII-6: 6835 - 6875 MHz U-NII-6: 6835 - 6815 MHz U-NII-6: 6835 - 6815 MHz U-NII-6: 6835 - 6815 MHz U-NII-6: 6835 - 6875 MHz	LTE Band 2	Voice/Data	1850.7 - 1909.3 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 n14 Voice/Data 790.5 - 795.5 MHz NR Band n5 Voice/Data 826.5 - 846.5 MHz NR Band n66 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 - 1912.5 MHz NR Band n30 Voice/Data 2307.5 - 2312.5 MHz NR Band n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555.01 - 3544.98 MHz NR Band n77 Voice/Data 2412 - 2462 MHz U-NII-2: 5180 - 5240 MHz 5 GHz WIFI Voice/Data U-NII-2: 5805 - 5825 MHz U-NII-2: 5805 - 5320 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5845 - 5885 MHz U-NII-2: 5845 - 6415 MHz U-NII-6: 6435 - 6875 MHz U-NII-6: 6435 - 6875 MHz U-NII-7: 6535 - 68675 MHz U-NII-7: 6535 - 68675 MHz U-NII-7: 6535 - 68675 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz 2402 - 2480 MHz	LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 38	LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 48	LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n71 Voice/Data 665.5 - 695.5 MHz NR Band n14 Voice/Data 790.5 - 795.5 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 n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555 - 3694.98 MHz NR Band n78 Voice/Data 3455.01 - 3544.98 MHz; 3705 - 3795 MHz 3455.01 - 3544.98 MHz; 3705 - 3975 MHz 3455.01 - 3544.98	LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
NR Band n14 Voice/Data 790.5 - 795.5 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 n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555 - 3694.98 MHz NR Band n78 Voice/Data 3455.01 - 3544.98 MHz; NR Band n77 Voice/Data 3455.01 - 3544.98 MHz; 3705 - 3795 MHz 3455.01 - 3544.98 MHz; 2.4 GHz WIFI Voice/Data 2412 - 2462 MHz U-NII-2: 5180 - 5240 MHz U-NII-2: 5560 - 5320 MHz U-NII-2: 5500 - 5320 MHz U-NII-2: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-6: 6435 - 6515 MHz U-NII-6: 5945 - 6415 MHz U-NII-6: 6535 - 6875 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz U-NII-8: 6895 - 7115 MHz U-NII-8: 6895 - 7115 MH	LTE Band 48	Voice/Data	3552.5 - 3697.5 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 n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555 - 3694.98 MHz NR Band n78 Voice/Data 3455.01 - 3544.98 MHz; 3705 - 3795 MHz 3705 - 3975 MHz NR Band n77 Voice/Data 2412 - 2462 MHz U-NII-1: 5180 - 5240 MHz U-NII-2C: 5500 - 5720 MHz U-NII-2A: 5260 - 5320 MHz U-NII-3: 5745 - 5825 MHz U-NII-3: 5745 - 5825 MHz U-NII-6: 6435 - 6875 MHz U-NII-6: 6435 - 6875 MHz U-NII-6: 6435 - 6875 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	NR Band n71	Voice/Data	665.5 - 695.5 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 n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555 - 3694.98 MHz NR Band n78 Voice/Data 3455.01 - 3544.98 MHz; 3705 - 3795 MHz 3705 - 3975 MHz 2.4 GHz WIFI Voice/Data U-NII-15 180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-5: 5845 - 5885 MHz U-NII-6: 6435 - 6515 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-6: 6435 - 6515 MHz U-NII-8: 6895 - 7115 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	NR Band n14	Voice/Data	790.5 - 795.5 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 n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555 - 3694.98 MHz NR Band n78 Voice/Data 3455.01 - 3544.98 MHz; 3705 - 3795 MHz 3705 - 3975 MHz 2.4 GHz WIFI Voice/Data 2412 - 2462 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2A: 5260 - 5320 MHz U-NII-3: 5745 - 5825 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz U-NII-5: 5945 - 6415 MHz U-NII-6: 6435 - 6875 MHz U-NII-6: 6435 - 6875 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	NR Band n5	Voice/Data	826.5 - 846.5 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 n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555 - 3694.98 MHz NR Band n78 Voice/Data 3455.01 - 3544.98 MHz; 3705 - 3795 MHz 3705 - 3975 MHz 2.4 GHz WIFI Voice/Data 2412 - 2462 MHz U-NII-15 180 - 5240 MHz U-NII-26: 5500 - 5720 MHz U-NII-27: 5500 - 5720 MHz U-NII-35: 5745 - 5825 MHz U-NII-5 5945 - 6415 MHz U-NII-6: 6435 - 6615 MHz U-NII-6: 6435 - 6515 MHz U-NII-6: 6435 - 6875 MHz U-NII-8: 6895 - 7115 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	NR Band n70	Voice/Data	1697.5 - 1707.5 MHz
NR Band n2 Voice/Data 1852.5 - 1907.5 MHz NR Band n30 Voice/Data 2307.5 - 2312.5 MHz NR Band n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555 - 3694.98 MHz NR Band n78 Voice/Data 3455.01 - 3544.98 MHz; 3705 - 3795 MHz 3705 - 3975 MHz NR Band n77 Voice/Data 2412 - 2462 MHz U-NII-1: 5180 - 5240 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5945 - 6815 MHz U-NII-5: 5945 - 6415 MHz U-NII-6: 6435 - 6875 MHz U-NII-6: 6435 - 6875 MHz U-NII-7: 6535 - 68675 MHz U-NII-8: 6895 - 7115 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n30	NR Band n25	Voice/Data	1852.5 - 1912.5 MHz
NR Band n41 Voice/Data 2501.01 - 2685 MHz NR Band n48 Voice/Data 3555 - 3694.98 MHz NR Band n78 Voice/Data 3455.01 - 3544.98 MHz; 3705 - 3795 MHz NR Band n77 Voice/Data 3455.01 - 3544.98 MHz; 3705 - 3975 MHz 2.4 GHz WIFI Voice/Data 2412 - 2462 MHz U-NII-2: 5260 - 5320 MHz U-NII-2: 5260 - 5320 MHz U-NII-2: 5500 - 5720 MHz U-NII-2: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz U-NII-6: 6435 - 6515 MHz U-NII-6: 6535 - 6675 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	NR Band n2	Voice/Data	1852.5 - 1907.5 MHz
NR Band n48	NR Band n30	Voice/Data	2307.5 - 2312.5 MHz
NR Band n78	NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n78	NR Band n48	Voice/Data	3555 - 3694.98 MHz
NR Band n77 Voice/Data 3705 - 3795 MHz 2.4 GHz WIFI Voice/Data 2412 - 2462 MHz U-NII-1: 5180 - 5240 MHz U-NII-2C: 5500 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5825 MHz U-NII-5: 5945 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz U-NII-8: 6895 - 7115 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	NP Rand n79	Voice/Data	3455.01 - 3544.98 MHz;
NR Band n77 Voice/Data 3705 - 3975 MHz 2.4 GHz WIFI Voice/Data 2412 - 2462 MHz U-NII-1: 5180 - 5240 MHz U-NII-2: 5260 - 5320 MHz U-NII-2: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-3: 5745 - 5825 MHz U-NII-3: 5745 - 5825 MHz U-NII-3: 5945 - 6415 MHz U-NII-5: 5945 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	TVIX Dallu 1170	VOICE/Data	3705 - 3795 MHz
2.4 GHz WIFI Voice/Data 2412 - 2424 MHz U-NII-1: 5180 - 5240 MHz U-NII-24: 5260 - 5320 MHz U-NII-24: 5260 - 5320 MHz U-NII-26: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-3: 5745 - 5825 MHz U-NII-5: 5845 - 5885 MHz U-NII-6: 6435 - 6615 MHz U-NII-6: 6435 - 6615 MHz U-NII-6: 6435 - 6615 MHz U-NII-6: 6435 - 6875 MHz U-NII-8: 6895 - 7115 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	NR Band n77	Voice/Data	,
U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5825 MHz U-NII-4: 5845 - 5825 MHz U-NII-5: 5945 - 6415 MHz U-NII-6: 6435 - 6615 MHz U-NII-7: 6535 - 6875 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz			
5 GHz WIFI Voice/Data U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5825 MHz U-NII-5: 5945 - 6415 MHz U-NII-6: 6435 - 6615 MHz U-NII-6: 6435 - 6615 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	2.4 GHz WIFI	Voice/Data	
5 GHz WIFI Voice/Data U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz U-NII-5: 5945 - 6415 MHz U-NII-6: 6435 - 6615 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz			
U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz U-NII-4: 5845 - 5885 MHz U-NII-6: 5945 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	5 GHz WIFI	Voice/Data	
6 GHz WIFI Voice/Data U-NII-5: 5945 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	0 0112 4411 1	VOICO/ Bala	
6 GHz WIFI Voice/Data U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz			U-NII-4: 5845 - 5885 MHz
6 GHz WIFI Voice/Data U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz			U-NII-5: 5945 - 6415 MHz
U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz 2.4 GHz Bluetooth Data 2402 - 2480 MHz	6 GHz WIEI	Voice/Data	
2.4 GHz Bluetooth Data 2402 - 2480 MHz	U GI IZ WIFI	VOICE/Dala	
			U-NII-8: 6895 - 7115 MHz
NFC Data 13.56 MHz		Data	2402 - 2480 MHz
	NFC	Data	13.56 MHz

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

FCC ID: A3LSMG766U	COMPLIANCE SUMMARY REPORT	Approved by: Technical Manager
Document S/N: 1M2501020001-04.A3L	DUT Type: Portable Handset	Page 8 of 9



COMPLIANCE SUMMARY

RF Exposure Compliance Summary 4.1

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	Reported RF Exposure Level	Test Report
SAR (W/kg)	Standalone 1g SAR	P _{limit}	1.6	1.01	
	Standalone 10g SAR	P_{limit}	4.0	0.50	FCC SAR
	Simultaneous Tx 1g SAR	P_{limit}	1.6	1.59	Evaluation Report (Part 1)
	Simultaneous Tx 10g SAR	P _{limit}	4.0	0.96	

FCC ID: A3LSMG766U	COMPLIANCE SUMMARY REPORT	Approved by: Technical Manager
Document S/N: 1M2501020001-04.A3L	DUT Type: Portable Handset	Page 9 of 9