**HEARING AID COMPATIBILITY****Applicant Name:**
Samsung Electronics Co., Ltd.
129, Samsung-ro, Maetan dong,
Yeongtong-gu, Suwon-si
Gyeonggi-do 16677, Korea**Date of Testing:**
10/3/2023 – 10/23/2023
Test Site/Location:
Element Washington DC LLC,
Columbia, MD, USA
Test Report Serial No.:
1M2308210092-26.A3L
Date of Issue:
11/2/2023**FCC ID:** A3LSMS928U
APPLICANT: SAMSUNG ELECTRONICS CO., LTD.**Scope of Test:** RF Emissions Testing
Application Type: Certification
FCC Rule Part(s): CFR §20.19(b)
HAC Standard: ANSI C63.19-2019
285076 D01 HAC Guidance v06r02
285076 D02 T-Coil testing for CMRS IP v04
DUT Type: Portable Handset
Model: SM-S928U
Additional Model(s): SM-S928U1
Test Device Serial No.: Pre-Production Sample [S/N: 0855M]**C63.19-2019 HAC Verdict:** PASS

This wireless portable device has been shown to be hearing-aid compatible under the above rated category, specified in ANSI/IEEE Std. C63.19-2019 and has been tested in accordance with the specified measurement procedures. Hearing-Aid Compatibility is based on the assumption that all production units will be designed electrically identical to the device tested in this report. Test results reported herein relate only to the item(s) tested. North America bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.


RJ Ortañez
Executive Vice President

| | | | |
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1. INTRODUCTION

On July 10, 2003, the Federal Communications Commission (FCC) adopted new rules requiring wireless manufacturers and service providers to provide digital wireless phones that are compatible with hearing aids. The FCC has modified the exemption for wireless phones under the Hearing Aid Compatibility Act of 1998 (HAC Act) in WT Docket 01-309 RM-8658¹ to extend the benefits of wireless telecommunications to individuals with hearing disabilities. These benefits encompass business, social and emergency communications, which increase the value of the wireless network for everyone. An estimated more than 10% of the population in the United States show signs of hearing impairment and of that fraction, almost 80% use hearing aids. Approximately 500 million people worldwide and 30 million people in the United States suffer from hearing loss.

Compatibility Tests Involved:

The standard calls for wireless communications devices to be measured for:

- RF Electric-field emissions
- T-coil mode, magnetic-signal strength in the audio band
- T-coil mode, magnetic-signal frequency response through the audio band
- T-coil mode, magnetic-signal and noise articulation index
- T-coil mode, acoustic-signal conversational gain in the audio band
- T-coil mode, acoustic-signal frequency response through the audio band
- T-coil mode, acoustic-signal distortion through audio band
- Volume Control, receive volume control performance
- Volume Control, receive distortion and noise performance
- Volume Control, receive acoustic frequency response performance

The hearing aid must be measured for:


- RF immunity in microphone mode
- RF immunity in T-coil mode

In the following tests and results, this report includes the evaluation for a wireless communications device.



Figure 1-1 Hearing Aid *in-vitu*

¹ FCC Rule & Order, WT Docket 01-309 RM-8658

| | | | |
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2. DUT DESCRIPTION



FCC ID: A3LSMS928U
Manufacturer: Samsung Electronics Co., Ltd.
129, Samsung-ro, Maetan dong,
Yeongtong-gu, Suwon-si
Gyeonggi-do 16677, Korea
Model: SM-S928U
Additional Model(s): SM-S928U1
Serial Number: 0855M
Antenna Configurations: Internal Antenna
DUT Type: Portable Handset

I. LTE Band Selection

This device supports LTE capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE band falls completely within an LTE band with a larger transmission frequency range, both LTE bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE bands share the same transmission path and signal characteristics, hearing-aid compatibility compliance was only assessed for the band with the larger transmission frequency range. However, overlapped LTE bands which are anchor bands for dual connectivity (EN-DC) scenarios between LTE and NR were evaluated as independent LTE bands.

II. NR Band Selection

This device supports NR capabilities with overlapping transmission frequency ranges. When the supported frequency range of an NR band falls completely within an NR band with a larger transmission frequency range, both NR bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both NR bands share the same transmission path and signal characteristics, hearing-aid compatibility compliance was only assessed for the band with the larger transmission frequency range.

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**Table 2-1
HAC Air Interfaces**

| Air-Interface | Band (MHz) | Type Transport | HAC Tested | Simultaneous But Not Tested | Name of Voice Service |
|----------------|-----------------|----------------|-------------------|-----------------------------|-----------------------|
| GSM | 850 | VO | No ¹ | Yes: WIFI or BT | CMRS Voice |
| | 1900 | | | | |
| | GPRS/EDGE | VD | | | |
| UMTS | 850 | VD | No ¹ | Yes: WIFI or BT | CMRS Voice |
| | 1700 | | | | |
| | 1900 | | | | |
| | HSPA | | | | |
| LTE (FDD) | 680 (B71) | VD | No ^{1 2} | Yes: NR, WIFI or BT | VoLTE, Google Meet |
| | 700 (B12) | | | | |
| | 780 (B13) | | | | |
| | 790 (B14) | | | | |
| | 850 (B5) | | | | |
| | 850 (B26) | | | | |
| | 1700 (B4) | | | | |
| | 1700 (B66) | | | | |
| | 1900 (B2) | | | | |
| | 1900 (B25) | | | | |
| | 2300 (B30) | | | | |
| | 2500 (B7) | | | | |
| | LTE (TDD) | | 2600 (B38) | | |
| 2600 (B41) | | | | | |
| 3600 (B48) | | | | | |
| NR (FDD) | 680 (n71) | VD | No ^{1 2} | Yes: LTE, WIFI or BT | VoNR, Google Meet |
| | 700 (n12) | | | | |
| | 850 (n5) | | | | |
| | 850 (n26) | | | | |
| | 1700 (n70) | | | | |
| | 1700 (n66) | | | | |
| | 1900 (n2) | | | | |
| | 1900 (n25) | | | | |
| | 2300 (n30) | | | | |
| | 2500 (n7) | | | | |
| NR (TDD) | 2600 (n38) | VD | No ¹ | Yes: LTE, WIFI or BT | VoNR, Google Meet |
| | 2600 (n41) | | | | |
| | 3500 (n77, DoD) | | | | |
| | 3600 (n48) | | | | |
| | 3700 (n77) | | No ³ | | |
| | 24500 (n258) | | | | |
| | 28000 (n261) | | | | |
| 39000 (n260) | | | | | |
| WIFI | 2450 | VD | No ¹ | Yes: GSM, UMTS, LTE, or NR | VoWIFI, Google Meet |
| | 5200 (U-NII 1) | | | | |
| | 5300 (U-NII 2A) | | | | |
| | 5500 (U-NII 2C) | | | | |
| | 5800 (U-NII 3) | | | | |
| | 5900 (U-NII 4) | | | | |
| | 6175 (U-NII 5) | | No ¹⁻⁴ | | |
| | 6475 (U-NII 6) | | | | |
| | 6700 (U-NII 7) | | No ⁵ | | |
| 7000 (U-NII 8) | | | | | |
| BT | 2450 | DT | No | Yes: GSM, UMTS, LTE, or NR | N/A |

Type Transport
VO = Voice Only
DT = Digital Data - Not intended for Voice Services
VD = CMRS and/or IP Voice over Data Transport

Notes:
1. Evaluated for WD RF peak power level requirements.
2. LTE B71 and NR n71, while outside the scope of ANSI C63.19 and FCC HAC regulations, were additionally tested according to the existing HAC procedures with currently available test equipment.
3. NR FR2 bands are currently outside the scope of ANSI C63.19 and FCC HAC regulations therefore they were not evaluated.
4. WIFI U-NII band 5 was evaluated for operations which are entirely below 6GHz. Operations partially or entirely above 6GHz were not evaluated due to equipment limitations and being outside of the current scope of ANSI C63.19 and FCC HAC regulations.
5. WIFI U-NII bands 6 through 8 were not evaluated due to equipment limitations and being outside of the current scope of ANSI C63.19 and FCC HAC regulations.

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3. ANSI/IEEE C63.19-2019 PERFORMANCE REQUIREMENTS

I. WD EMISSIONS Requirements

The ANSI Standard presents performance requirements for acceptable interoperability of hearing aids with wireless communications devices. When these parameters are met, a hearing aid operates acceptably in close proximity to a wireless communications device. The WD may demonstrate compliance by meeting any of the four requirements listed below for each of its operating bands.

| Frequency Range (MHz) | RF _{AIPL} (dBm) |
|-----------------------|--------------------------|
| <960 | 29 |
| 960-2000 | 26 |
| >2000 | 25 |

Table 3-1

WD RF audio interference power level requirements

| Frequency Range (MHz) | RF _{Peak Power} (dBm) |
|-----------------------|--------------------------------|
| <960 | 35 |
| 960-2000 | 32 |
| >2000 | 31 |

Table 3-2

WD RF peak power level requirements

| Frequency Range (MHz) | RF _{AIL} (dB(V/m)) |
|-----------------------|-----------------------------|
| <960 | 39 |
| 960-2000 | 36 |
| >2000 | 35 |


Table 3-3

WD RF audio interference level requirements

| Frequency Range (MHz) | RF _{Peak} (dB(V/m)) |
|-----------------------|------------------------------|
| <960 | 29 |
| 960-2000 | 26 |
| >2000 | 25 |

Table 3-4

WD RF peak near-field level requirements

| | | | |
|----------------------------------|---|--------------------------------|-----------------------------------|
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4. RF SYSTEM SPECIFICATIONS

EF3DV3 E-Field Probe Description

| | |
|---------------|--|
| Construction: | One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges |
| Calibration: | In air from 30 MHz to 6.0 GHz (absolute accuracy $\pm 5.1\%$, $k=2$) |
| Frequency: | 30 MHz to > 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz) |
| Directivity | ± 0.2 dB in air (rotation around probe axis) ± 0.4 dB in air (rotation normal to probe axis) |
| Dynamic Range | 2 V/m to > 1000 V/m (M3 or better device readings fall well below diode compression point) |
| Linearity: | ± 0.2 dB |
| Dimensions | Overall length: 337 mm (Tip: 20 mm) Tip diameter: 4.0 mm (Body: 12 mm) Distance from probe tip to dipole centers: 1.5 mm |

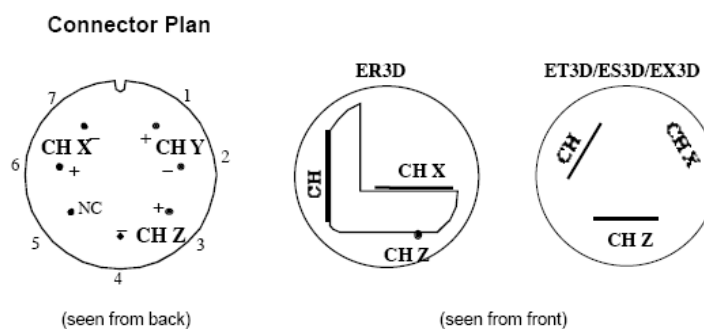


Figure 4-1
E-field Free-space Probe

Probe Tip Description

HAC field measurements take place in the close near field with high gradients. Increasing the measuring distance from the source will generally decrease the measured field values (in case of the validation dipole approx. 10% per mm).

The electric field probes have an irregular internal geometry because it is physically not possible to have the 3 orthogonal sensors situated with the same center. The effect of the different sensor centers is accounted for in the HAC uncertainty budget ("sensor displacement").



The antistatic shielding inside the probe is connected to the probe connector case.

| | | | |
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Instrumentation Chain

Equation 1

Conversion of Connector Voltage u_i to E-Field E_i

$$E_i = \sqrt{\frac{u_i + (u_i^2 \cdot CF)/(DCP)}{Norm_i \cdot ConvF}}$$

whereby

E_i : electric field in V/m
 u_i : voltage of channel i at the connector in μV
 $Norm_i$: sensitivity of channel i in $\mu\text{V}/(\text{V/m})^2$
 $ConvF$: enhancement factor in liquid ($ConvF=1$ for Air)
 DCP : diode compression point in μV
 CF : signal crest factor (peak power/average power)

Conditions of Calibration



Please note:

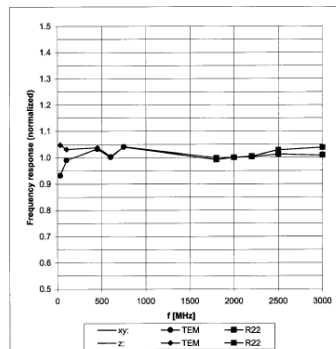
- a lower input impedance of the amplifier will result in different sensitivity factors $Norm_i$ and DCP
- larger bias currents will cause higher offset

Probe Response to Frequency

The E-field sensors have inherently a very flat frequency response. They are calibrated with a number of frequencies resulting in a common calibration factor, with the frequency behavior documented in the calibration certificate (See also below).

Frequency Response of E-Field

(TEM-Cell:if110 EXX, Waveguide R22)



Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

Figure 4-2 E-Field Probe Frequency Response

| | | | |
|----------------------------------|---------------------------------------|--------------------------------|-----------------------------------|
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SPEAG Robotic System


E-field measurements are performed using the DASY5 automated dosimetric assessment system. The DASY5 is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland and consists of high precision robotics system (Staubli), robot controller, Intel CORE i7 computer, near-field probe, probe alignment sensor, and the HAC phantom. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF).



Figure 4-3
SPEAG Robotic System

System Hardware

A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and a remote control used to drive the robot motors. The PC consists of the computer with operating system and RF Measurement Software DASY5 v52.8 (with HAC Extension), A/D interface card, monitor, mouse, and keyboard. The Staubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit that performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

| | | | |
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System Electronics

The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer.

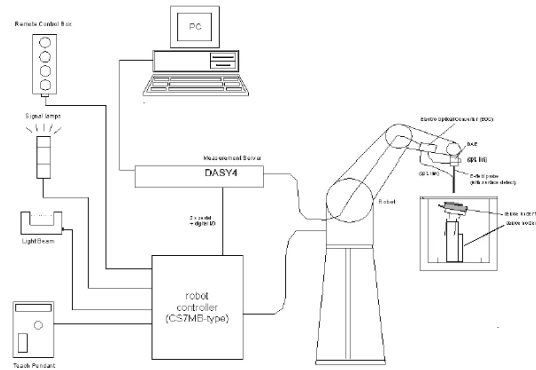



Figure 4-4
SPEAG Robotic System Diagram

DASY5 Instrumentation Chain

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

| | | |
|------------|-----------------------------------|------------------|
| with V_i | = compensated signal of channel i | (i = x, y, z) |
| U_i | = input signal of channel i | (i = x, y, z) |
| cf | = crest factor of exciting field | (DASY parameter) |
| dcp_i | = diode compression point | (DASY parameter) |

| | | | |
|----------------------------------|---|--------------------------------|-----------------------------------|
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From the compensated input signals the primary field data for each channel can be evaluated:

$$E - \text{fieldprobes} : \quad E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$$

with V_i = compensated signal of channel i (i = x, y, z)
 $Norm_i$ = sensor sensitivity of channel i (i = x, y, z)
 $\mu\text{V}/(\text{V}/\text{m})^2$ for E-field Probes
 $ConvF$ = sensitivity enhancement in solution
 E_i = electric field strength of channel i in V/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.


The measurement/integration time per point, as specified by the system manufacturer is >500ms.

The signal response time is evaluated as the time required by the system to reach 90% of the expected final value after an on/off switch of the power source with an integration time of 500ms and a probe response time of <5 ms. In the current implementation, DASYS5 waits longer than 100ms after having reached the grid point before starting a measurement, i.e., the response time uncertainty is negligible.

If the device under test does not emit a CW signal, the integration time applied to measure the electric field at a specific point may introduce additional uncertainties due to the discretization. The tolerances for the different systems had the worst-case of 2.6%.

Environmental Conditions

Environmental conditions such as temperature and relative humidity are monitored to ensure there are no impacts on system specifications. Proper voltage and power line frequency conditions are maintained with three phase power sources. Environmental noise and reflections are monitored through system checks.


| | | | |
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5. TEST PROCEDURE

I. PEAK POWER LEVEL EVALUATION

To demonstrate hearing aid compliance with the ANSI standard C63.19-2019, an evaluation was performed using the peak power level requirements detailed in Table 3-2. Conducted power measurements were performed to verify maximum target power levels for all relevant operating bands/modes. An evaluation of each applicable air interface was performed to ensure compliance for each band.

| | | | |
|---|--|---------------------------------------|--|
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6. CONDUCTED POWER CONFIGURATIONS AND TARGETS

I. Procedures Used to Establish RF Signal for HAC Testing

The handset was configured to transmit the required air interface in a shielded chamber. Measurements were taken with a fully charged battery.

II. HAC Target Powers

All applicable modes supported by the device have their held-to-ear conducted power targets listed below and were used for the individual mode evaluations in Section 7. All conducted power targets have a tolerance of +1.0dB and -1.5dB unless otherwise noted. For WIFI modes, the overall maximum power amongst all bands per IEEE standards is listed.

III. RF Conducted Power Measurement Setup and Conditions

Output Power Verification

Maximum output power is verified for all applicable test channels for all air interfaces which require HAC compliance. See Table 6-1 for air interface specific settings of transmit power parameters.

**Table 6-1
Power Control Parameters and Settings by Air Interface**

| Air Interface: | Parameter Name: | Parameter Set To: |
|----------------|--------------------|---------------------------|
| CDMA | Power Control Bits | "All Up" |
| GSM | PCL | GSM850: "5"; GSM1900: "0" |
| UMTS | TPC | "All 1's" |
| LTE | TPC | "Max Power" |
| NR | PLS | Mfr Specified |
| WIFI | PLS | Mfr Specified |

The general setup for conducted powers included in Tables 6-11 to 6-77 is shown in Figure 6-1 below. The power measurement equipment could be a base station simulator, signal analyzer, or power meter depending on the applicable air interface.

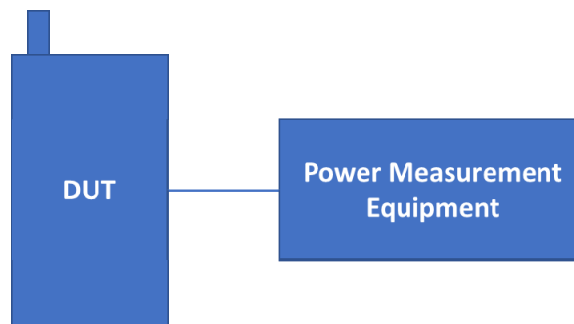



Figure 6-1
Power Measurement Setup

| | | | |
|----------------------------------|---|--------------------------------|-----------------------------------|
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IV. GSM Target Powers

**Table 6-2
GSM Conducted Power Targets**

| Band | Modulated Average Output Power (in dBm) | |
|---------------|---|------|
| | Voice | Data |
| GSM/EDGE 850 | 32.5 | 27.0 |
| GSM/EDGE 1900 | 29.0 | 26.0 |

V. UMTS Target Powers


**Table 6-3
UMTS Conducted Power Targets**

| Band | Modulated Average Output Power (in dBm) | |
|---------|---|------------------|
| | 3GPP WCDMA Rel 99 | 3GPP HSUPA Rel 6 |
| UMTS V | 24.0 | 23.0 |
| UMTS IV | 23.0 | 22.0 |
| UMTS II | 23.0 | 22.0 |

VI. LTE FDD Target Powers

**Table 6-4
LTE FDD Conducted Power Targets**

| Band | Modulated Average Output Power (in dBm) |
|-------------|---|
| LTE Band 71 | 24.0 |
| LTE Band 12 | 24.3 |
| LTE Band 13 | 24.0 |
| LTE Band 14 | 24.3 |
| LTE Band 5 | 24.0 |
| LTE Band 26 | 24.0 |
| LTE Band 4 | 23.5 |
| LTE Band 66 | 23.5 |
| LTE Band 2 | 23.5 |
| LTE Band 25 | 23.5 |
| LTE Band 30 | 22.5 |
| LTE Band 7 | 23.0 |

| | | | |
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Table 6-5
LTE FDD Uplink Carrier Aggregation Conducted Power Targets

| Band | Modulated Average Output Power (in dBm) |
|-------------|---|
| LTE Band 66 | 23.5 |


VII. LTE TDD Target Powers

Table 6-6
LTE TDD Conducted Power Targets

| Band | Modulated Average Output Power (in dBm) |
|-----------------|---|
| LTE Band 38 | 24.0 |
| LTE Band 41 PC3 | 24.0 |
| LTE Band 41 PC2 | 25.7 |
| LTE Band 48 | 22.5 |

Table 6-7
LTE TDD Uplink Carrier Aggregation Conducted Power Targets

| Band | Modulated Average Output Power (in dBm) |
|-----------------|---|
| LTE Band 41 PC3 | 24.0 |
| LTE Band 41 PC2 | 25.7 |
| LTE Band 48 | 22.5 |

| | | |
|---|---|--|
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VIII. NR FDD Target Powers

**Table 6-8
NR FDD Conducted Power Targets**

| Band | Modulated Average Output Power (in dBm) |
|-------------|---|
| NR Band n71 | 24.0 |
| NR Band n12 | 24.3 |
| NR Band n26 | 24.0 |
| NR Band n5 | 24.0 |
| NR Band n70 | 23.0 |
| NR Band n66 | 23.5 |
| NR Band n2 | 23.5 |
| NR Band n25 | 23.5 |
| NR Band n7 | 23.0 |
| NR Band n30 | 22.5 |

IX. NR TDD Target Powers


**Table 6-9
NR TDD Conducted Power Targets**

| Band | Modulated Average Output Power (in dBm) |
|-------------------|---|
| NR Band n38 | 24.0 |
| NR Band n41 PC2 | 26.0 |
| NR Band n48 | 22.5 |
| NR Band n77 | 26.0 |
| NR Band n77 (DoD) | 26.0 |
| NR Band n78 | 26.0 |

X. WIFI Target Powers

**Table 6-10
IEEE 802.11a/b/g/n/ac/ax Reduced Average RF Power Targets¹**

| Band | Modulated Average Output Power (in dBm) |
|-----------------|---|
| WLAN - 2.4GHz | 22.0 |
| WLAN - 5GHz | 20.0 |
| WLAN - RSDB/DBS | 24.1 |

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XI. Conducted Power Measurements

**Table 6-11
GSM850 Conducted Powers – Ant A**

| Band | Channel | GSM [dBm] CS (1 Slot) |
|---------|---------|-----------------------|
| GSM 850 | 128 | 31.54 |
| | 190 | 31.85 |
| | 251 | 31.71 |

**Table 6-12
GSM850 Conducted Powers – Ant E**

| Band | Channel | GSM [dBm] CS (1 Slot) |
|---------|---------|-----------------------|
| GSM 850 | 128 | 32.08 |
| | 190 | 32.39 |
| | 251 | 32.06 |

**Table 6-13
GSM1900 Conducted Powers**


| Band | Channel | GSM [dBm] CS (1 Slot) |
|----------|---------|-----------------------|
| GSM 1900 | 512 | 28.57 |
| | 661 | 28.63 |
| | 810 | 28.85 |

**Table 6-14
UMTS Conducted Powers – Ant A**

| Mode | 3GPP 34.121 Subtest | Cellular Band [dBm] | | | AWS Band [dBm] | | | PCS Band [dBm] | | |
|-------|---------------------|---------------------|--------------|-------|----------------|-------|--------------|----------------|-------|--------------|
| | | 4132 | 4183 | 4233 | 1312 | 1412 | 1513 | 9262 | 9400 | 9538 |
| WCDMA | 12.2 kbps RMC | 23.28 | 23.29 | 23.15 | 19.52 | 19.52 | 19.54 | 17.77 | 18.05 | 18.08 |
| | 12.2 kbps AMR | 23.28 | 23.29 | 23.12 | 19.50 | 19.48 | 19.57 | 17.83 | 18.15 | 18.16 |
| HSUPA | Subtest 1 | 22.53 | 22.54 | 22.38 | 18.61 | 18.54 | 18.64 | 16.53 | 16.75 | 16.84 |

**Table 6-15
UMTS850 Conducted Powers – Ant E**

| Mode | 3GPP 34.121 Subtest | Cellular Band [dBm] | | |
|-------|---------------------|---------------------|--------------|-------|
| | | 4132 | 4183 | 4233 |
| WCDMA | 12.2 kbps RMC | 22.56 | 22.61 | 22.57 |
| | 12.2 kbps AMR | 22.55 | 22.60 | 22.54 |
| HSUPA | Subtest 1 | 22.11 | 21.66 | 22.02 |

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Table 6-16
LTE Band 71 Conducted Powers – Ant A

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | QPSK | 133222 | 673.0 | 1 / 0 | 24.06 |
| | | 133297 | 680.5 | 1 / 99 | 24.01 |
| | | 133372 | 688.0 | 1 / 50 | 23.93 |
| | 16-QAM | 133222 | 673.0 | 1 / 50 | 23.16 |
| | | 133297 | 680.5 | 1 / 99 | 23.16 |
| | | 133372 | 688.0 | 1 / 99 | 23.23 |
| 15 MHz | QPSK | 133197 | 670.5 | 1 / 0 | 24.08 |
| | | 133297 | 680.5 | 1 / 37 | 24.02 |
| | | 133397 | 690.5 | 1 / 0 | 24.04 |
| | 16-QAM | 133197 | 670.5 | 1 / 37 | 23.40 |
| | | 133297 | 680.5 | 1 / 0 | 23.25 |
| | | 133397 | 690.5 | 1 / 74 | 23.15 |
| 10 MHz | QPSK | 133172 | 668.0 | 1 / 25 | 24.12 |
| | | 133297 | 680.5 | 1 / 25 | 24.05 |
| | | 133422 | 693.0 | 1 / 0 | 24.02 |
| | 16-QAM | 133172 | 668.0 | 1 / 0 | 23.17 |
| | | 133297 | 680.5 | 1 / 0 | 23.16 |
| | | 133422 | 693.0 | 1 / 25 | 23.20 |
| 5 MHz | QPSK | 133147 | 665.5 | 1 / 12 | 24.00 |
| | | 133297 | 680.5 | 1 / 12 | 24.05 |
| | | 133447 | 695.5 | 1 / 12 | 24.10 |
| | 16-QAM | 133147 | 665.5 | 1 / 24 | 23.16 |
| | | 133297 | 680.5 | 1 / 0 | 23.06 |
| | | 133447 | 695.5 | 1 / 24 | 23.15 |

Table 6-17
LTE Band 71 Conducted Powers – Ant E

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | QPSK | 133222 | 673.0 | 1 / 99 | 23.41 |
| | | 133297 | 680.5 | 1 / 99 | 23.84 |
| | | 133372 | 688.0 | 1 / 50 | 23.71 |
| | 16-QAM | 133222 | 673.0 | 1 / 99 | 22.95 |
| | | 133297 | 680.5 | 1 / 50 | 22.82 |
| | | 133372 | 688.0 | 1 / 50 | 23.20 |
| 15 MHz | QPSK | 133197 | 670.5 | 1 / 74 | 23.77 |
| | | 133297 | 680.5 | 1 / 74 | 23.71 |
| | | 133397 | 690.5 | 1 / 74 | 23.79 |
| | 16-QAM | 133197 | 670.5 | 1 / 74 | 22.93 |
| | | 133297 | 680.5 | 1 / 37 | 23.07 |
| | | 133397 | 690.5 | 1 / 37 | 23.08 |
| 10 MHz | QPSK | 133172 | 668.0 | 1 / 49 | 23.47 |
| | | 133297 | 680.5 | 1 / 0 | 23.77 |
| | | 133422 | 693.0 | 1 / 25 | 23.66 |
| | 16-QAM | 133172 | 668.0 | 1 / 0 | 22.73 |
| | | 133297 | 680.5 | 1 / 0 | 22.93 |
| | | 133422 | 693.0 | 1 / 49 | 22.90 |
| 5 MHz | QPSK | 133147 | 665.5 | 1 / 24 | 23.45 |
| | | 133297 | 680.5 | 1 / 12 | 23.68 |
| | | 133447 | 695.5 | 1 / 12 | 23.85 |
| | 16-QAM | 133147 | 665.5 | 1 / 12 | 22.63 |
| | | 133297 | 680.5 | 1 / 24 | 22.72 |
| | | 133447 | 695.5 | 1 / 0 | 22.90 |

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Table 6-18
LTE Band 12 Conducted Powers – Ant A


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 10 MHz | QPSK | 23060 | 704.0 | 1 / 49 | 24.11 |
| | | 23095 | 707.5 | 1 / 0 | 24.06 |
| | | 23130 | 711.0 | 1 / 49 | 24.15 |
| | 16-QAM | 23060 | 704.0 | 1 / 0 | 23.35 |
| | | 23095 | 707.5 | 1 / 25 | 23.27 |
| | | 23130 | 711.0 | 1 / 25 | 23.23 |
| 5 MHz | QPSK | 23035 | 701.5 | 1 / 0 | 24.12 |
| | | 23095 | 707.5 | 1 / 12 | 24.24 |
| | | 23155 | 713.5 | 1 / 0 | 24.23 |
| | 16-QAM | 23035 | 701.5 | 1 / 12 | 23.45 |
| | | 23095 | 707.5 | 1 / 12 | 23.29 |
| | | 23155 | 713.5 | 1 / 0 | 23.36 |
| 3 MHz | QPSK | 23025 | 700.5 | 1 / 0 | 24.02 |
| | | 23095 | 707.5 | 1 / 7 | 24.26 |
| | | 23165 | 714.5 | 1 / 7 | 24.09 |
| | 16-QAM | 23025 | 700.5 | 1 / 7 | 23.54 |
| | | 23095 | 707.5 | 1 / 7 | 23.33 |
| | | 23165 | 714.5 | 1 / 7 | 23.24 |
| 1.4 MHz | QPSK | 23017 | 699.7 | 1 / 3 | 24.07 |
| | | 23095 | 707.5 | 1 / 3 | 24.09 |
| | | 23173 | 715.3 | 1 / 3 | 23.93 |
| | 16-QAM | 23017 | 699.7 | 1 / 3 | 23.25 |
| | | 23095 | 707.5 | 1 / 3 | 23.14 |
| | | 23173 | 715.3 | 1 / 3 | 23.10 |

Table 6-19
LTE Band 12 Conducted Powers – Ant E

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 10 MHz | QPSK | 23060 | 704.0 | 1 / 25 | 24.19 |
| | | 23095 | 707.5 | 1 / 49 | 24.22 |
| | | 23130 | 711.0 | 1 / 49 | 24.20 |
| | 16-QAM | 23060 | 704.0 | 1 / 49 | 23.38 |
| | | 23095 | 707.5 | 1 / 25 | 23.41 |
| | | 23130 | 711.0 | 1 / 49 | 23.56 |
| 5 MHz | QPSK | 23035 | 701.5 | 1 / 12 | 24.26 |
| | | 23095 | 707.5 | 1 / 12 | 24.17 |
| | | 23155 | 713.5 | 1 / 12 | 24.32 |
| | 16-QAM | 23035 | 701.5 | 1 / 12 | 23.63 |
| | | 23095 | 707.5 | 1 / 12 | 23.47 |
| | | 23155 | 713.5 | 1 / 12 | 23.56 |
| 3 MHz | QPSK | 23025 | 700.5 | 1 / 7 | 24.09 |
| | | 23095 | 707.5 | 1 / 7 | 24.23 |
| | | 23165 | 714.5 | 1 / 7 | 24.21 |
| | 16-QAM | 23025 | 700.5 | 1 / 7 | 23.43 |
| | | 23095 | 707.5 | 1 / 0 | 23.48 |
| | | 23165 | 714.5 | 1 / 0 | 23.38 |
| 1.4 MHz | QPSK | 23017 | 699.7 | 1 / 3 | 24.07 |
| | | 23095 | 707.5 | 1 / 3 | 24.12 |
| | | 23173 | 715.3 | 1 / 0 | 24.13 |
| | 16-QAM | 23017 | 699.7 | 1 / 0 | 23.29 |
| | | 23095 | 707.5 | 1 / 0 | 23.34 |
| | | 23173 | 715.3 | 1 / 0 | 23.39 |

Table 6-20
LTE Band 13 Conducted Powers – Ant A

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 10 MHz | QPSK | 23230 | 782.0 | 1 / 0 | 24.18 |
| | 16-QAM | 23230 | 782.0 | 1 / 0 | 23.32 |
| 5 MHz | QPSK | 23205 | 779.5 | 1 / 0 | 24.18 |
| | | 23230 | 782.0 | 1 / 0 | 24.18 |
| | | 23255 | 784.5 | 1 / 12 | 24.12 |
| | 16-QAM | 23205 | 779.5 | 1 / 0 | 23.44 |
| | | 23230 | 782.0 | 1 / 0 | 23.42 |
| | | 23255 | 784.5 | 1 / 0 | 23.47 |

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Table 6-21
LTE Band 13 Conducted Powers – Ant E


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 10 MHz | QPSK | 23230 | 782.0 | 1 / 0 | 23.70 |
| | 16-QAM | 23230 | 782.0 | 1 / 25 | 22.61 |
| 5 MHz | QPSK | 23205 | 779.5 | 1 / 0 | 23.72 |
| | | 23230 | 782.0 | 1 / 0 | 23.49 |
| | | 23255 | 784.5 | 1 / 0 | 23.46 |
| | 16-QAM | 23205 | 779.5 | 1 / 0 | 22.83 |
| | | 23230 | 782.0 | 1 / 0 | 22.62 |
| | | 23255 | 784.5 | 1 / 24 | 22.75 |

Table 6-22
LTE Band 14 Conducted Powers – Ant A

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 10 MHz | QPSK | 23330 | 793.0 | 1 / 25 | 24.09 |
| | 16-QAM | 23330 | 793.0 | 1 / 25 | 23.37 |
| 5 MHz | QPSK | 23305 | 790.5 | 1 / 12 | 24.04 |
| | | 23330 | 793.0 | 1 / 0 | 24.03 |
| | | 23355 | 795.5 | 1 / 24 | 24.07 |
| | 16-QAM | 23305 | 790.5 | 1 / 12 | 23.05 |
| | | 23330 | 793.0 | 1 / 0 | 23.14 |
| | | 23355 | 795.5 | 1 / 24 | 23.18 |

Table 6-23
LTE Band 14 Conducted Powers – Ant E

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 10 MHz | QPSK | 23330 | 793.0 | 1 / 49 | 23.91 |
| | 16-QAM | 23330 | 793.0 | 1 / 49 | 22.86 |
| 5 MHz | QPSK | 23305 | 790.5 | 1 / 0 | 23.84 |
| | | 23330 | 793.0 | 1 / 12 | 23.91 |
| | | 23355 | 795.5 | 1 / 24 | 23.81 |
| | 16-QAM | 23305 | 790.5 | 1 / 0 | 22.91 |
| | | 23330 | 793.0 | 1 / 12 | 22.91 |
| | | 23355 | 795.5 | 1 / 24 | 22.86 |


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**Table 6-24
LTE Band 26/5 Conducted Powers – Ant A**

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|----------------------|------------|---------|-----------------|----------------|-----------------------|
| 15MHz (Band 26 only) | QPSK | 26865 | 831.5 | 1 / 0 | 23.88 |
| | | 26915 | 836.5 | 1 / 37 | 23.93 |
| | | 26965 | 841.5 | 1 / 37 | 23.92 |
| | 16QAM | 26865 | 831.5 | 1 / 0 | 22.76 |
| | | 26915 | 836.5 | 1 / 37 | 23.12 |
| | | 26965 | 841.5 | 1 / 37 | 22.76 |
| 10 MHz | QPSK | 26840 | 829.0 | 1 / 25 | 23.81 |
| | | 26915 | 836.5 | 1 / 25 | 23.93 |
| | | 26990 | 844.0 | 1 / 49 | 24.03 |
| | 16QAM | 26840 | 829.0 | 1 / 25 | 22.68 |
| | | 26915 | 836.5 | 1 / 25 | 22.89 |
| | | 26990 | 844.0 | 1 / 49 | 23.22 |
| 5 MHz | QPSK | 26815 | 826.5 | 1 / 0 | 23.85 |
| | | 26915 | 836.5 | 1 / 24 | 23.92 |
| | | 27015 | 846.5 | 1 / 12 | 24.10 |
| | 16QAM | 26815 | 826.5 | 1 / 0 | 22.93 |
| | | 26915 | 836.5 | 1 / 24 | 22.91 |
| | | 27015 | 846.5 | 1 / 12 | 23.02 |
| 3 MHz | QPSK | 26805 | 825.5 | 1 / 0 | 23.89 |
| | | 26915 | 836.5 | 1 / 7 | 23.85 |
| | | 27025 | 847.5 | 1 / 14 | 24.06 |
| | 16QAM | 26805 | 825.5 | 1 / 0 | 22.93 |
| | | 26915 | 836.5 | 1 / 7 | 22.89 |
| | | 27025 | 847.5 | 1 / 14 | 22.90 |
| 1.4 MHz | QPSK | 26797 | 824.7 | 1 / 3 | 23.78 |
| | | 26915 | 836.5 | 1 / 3 | 23.84 |
| | | 27033 | 848.3 | 1 / 0 | 24.06 |
| | 16QAM | 26797 | 824.7 | 1 / 3 | 23.00 |
| | | 26915 | 836.5 | 1 / 3 | 22.84 |
| | | 27033 | 848.3 | 1 / 0 | 23.22 |

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Table 6-25
LTE Band 26/5 Conducted Powers – Ant E

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|----------------------|------------|---------|-----------------|----------------|-----------------------|
| 15MHz (Band 26 only) | QPSK | 26865 | 831.5 | 1 / 74 | 23.58 |
| | | 26915 | 836.5 | 1 / 37 | 23.60 |
| | | 26965 | 841.5 | 1 / 0 | 23.64 |
| | 16QAM | 26865 | 831.5 | 1 / 74 | 22.67 |
| | | 26915 | 836.5 | 1 / 37 | 22.59 |
| | | 26965 | 841.5 | 1 / 0 | 22.67 |
| 10 MHz | QPSK | 26840 | 829.0 | 1 / 49 | 23.70 |
| | | 26915 | 836.5 | 1 / 0 | 23.69 |
| | | 26990 | 844.0 | 1 / 49 | 23.69 |
| | 16QAM | 26840 | 829.0 | 1 / 49 | 22.78 |
| | | 26915 | 836.5 | 1 / 0 | 22.81 |
| | | 26990 | 844.0 | 1 / 49 | 22.75 |
| 5 MHz | QPSK | 26815 | 826.5 | 1 / 12 | 23.55 |
| | | 26915 | 836.5 | 1 / 24 | 23.61 |
| | | 27015 | 846.5 | 1 / 12 | 23.77 |
| | 16QAM | 26815 | 826.5 | 1 / 12 | 22.72 |
| | | 26915 | 836.5 | 1 / 24 | 22.67 |
| | | 27015 | 846.5 | 1 / 12 | 22.71 |
| 3 MHz | QPSK | 26805 | 825.5 | 1 / 0 | 23.64 |
| | | 26915 | 836.5 | 1 / 14 | 23.87 |
| | | 27025 | 847.5 | 1 / 14 | 23.63 |
| | 16QAM | 26805 | 825.5 | 1 / 0 | 22.64 |
| | | 26915 | 836.5 | 1 / 14 | 22.67 |
| | | 27025 | 847.5 | 1 / 14 | 22.48 |
| 1.4 MHz | QPSK | 26797 | 824.7 | 1 / 3 | 23.53 |
| | | 26915 | 836.5 | 1 / 3 | 23.57 |
| | | 27033 | 848.3 | 1 / 0 | 23.55 |
| | 16QAM | 26797 | 824.7 | 1 / 3 | 22.53 |
| | | 26915 | 836.5 | 1 / 3 | 22.66 |
| | | 27033 | 848.3 | 1 / 0 | 22.59 |

Table 6-26
LTE Band 66/4 Conducted Powers – Ant A


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | QPSK | 132072 | 1720.0 | 1 / 0 | 23.78 |
| | | 132322 | 1745.0 | 1 / 50 | 23.59 |
| | | 132572 | 1770.0 | 1 / 99 | 23.91 |
| | 16-QAM | 132072 | 1720.0 | 1 / 99 | 22.90 |
| | | 132322 | 1745.0 | 1 / 99 | 22.80 |
| | | 132572 | 1770.0 | 1 / 99 | 23.13 |
| 15 MHz | QPSK | 132047 | 1717.5 | 1 / 0 | 23.68 |
| | | 132322 | 1745.0 | 1 / 0 | 23.34 |
| | | 132597 | 1772.5 | 1 / 37 | 23.82 |
| | 16-QAM | 132047 | 1717.5 | 1 / 0 | 23.06 |
| | | 132322 | 1745.0 | 1 / 0 | 22.89 |
| | | 132597 | 1772.5 | 1 / 37 | 23.01 |
| 10 MHz | QPSK | 132022 | 1715.0 | 1 / 0 | 23.73 |
| | | 132322 | 1745.0 | 1 / 0 | 23.34 |
| | | 132622 | 1775.0 | 1 / 49 | 23.66 |
| | 16-QAM | 132022 | 1715.0 | 1 / 25 | 22.93 |
| | | 132322 | 1745.0 | 1 / 0 | 22.63 |
| | | 132622 | 1775.0 | 1 / 25 | 23.26 |
| 5 MHz | QPSK | 131997 | 1712.5 | 1 / 24 | 23.81 |
| | | 132322 | 1745.0 | 1 / 0 | 23.36 |
| | | 132647 | 1777.5 | 1 / 24 | 23.87 |
| | 16-QAM | 131997 | 1712.5 | 1 / 12 | 23.19 |
| | | 132322 | 1745.0 | 1 / 24 | 22.73 |
| | | 132647 | 1777.5 | 1 / 12 | 22.96 |
| 3 MHz | QPSK | 131987 | 1711.5 | 1 / 7 | 23.74 |
| | | 132322 | 1745.0 | 1 / 0 | 23.45 |
| | | 132657 | 1778.5 | 1 / 7 | 23.81 |
| | 16-QAM | 131987 | 1711.5 | 1 / 7 | 23.17 |
| | | 132322 | 1745.0 | 1 / 0 | 22.73 |
| | | 132657 | 1778.5 | 1 / 7 | 22.88 |
| 1.4 MHz | QPSK | 131979 | 1710.7 | 1 / 0 | 23.84 |
| | | 132322 | 1745.0 | 1 / 3 | 23.28 |
| | | 132665 | 1779.3 | 1 / 0 | 23.71 |
| | 16-QAM | 131979 | 1710.7 | 1 / 3 | 22.96 |
| | | 132322 | 1745.0 | 1 / 5 | 22.60 |
| | | 132665 | 1779.3 | 1 / 5 | 23.11 |

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Table 6-27
LTE Band 66/4 Conducted Powers – Ant F

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | QPSK | 132072 | 1720.0 | 1 / 50 | 23.31 |
| | | 132322 | 1745.0 | 1 / 0 | 23.26 |
| | | 132572 | 1770.0 | 1 / 99 | 23.53 |
| | 16-QAM | 132072 | 1720.0 | 1 / 99 | 22.53 |
| | | 132322 | 1745.0 | 1 / 99 | 22.55 |
| | | 132572 | 1770.0 | 1 / 99 | 22.59 |
| 15 MHz | QPSK | 132047 | 1717.5 | 1 / 74 | 23.46 |
| | | 132322 | 1745.0 | 1 / 37 | 23.24 |
| | | 132597 | 1772.5 | 1 / 74 | 23.56 |
| | 16-QAM | 132047 | 1717.5 | 1 / 74 | 22.50 |
| | | 132322 | 1745.0 | 1 / 37 | 22.44 |
| | | 132597 | 1772.5 | 1 / 74 | 22.76 |
| 10 MHz | QPSK | 132022 | 1715.0 | 1 / 0 | 23.37 |
| | | 132322 | 1745.0 | 1 / 25 | 23.32 |
| | | 132622 | 1775.0 | 1 / 49 | 23.54 |
| | 16-QAM | 132022 | 1715.0 | 1 / 25 | 22.56 |
| | | 132322 | 1745.0 | 1 / 25 | 22.55 |
| | | 132622 | 1775.0 | 1 / 0 | 22.69 |
| 5 MHz | QPSK | 131997 | 1712.5 | 1 / 0 | 23.50 |
| | | 132322 | 1745.0 | 1 / 24 | 23.51 |
| | | 132647 | 1777.5 | 1 / 12 | 23.54 |
| | 16-QAM | 131997 | 1712.5 | 1 / 24 | 22.69 |
| | | 132322 | 1745.0 | 1 / 0 | 22.45 |
| | | 132647 | 1777.5 | 1 / 12 | 22.86 |
| 3 MHz | QPSK | 131987 | 1711.5 | 1 / 7 | 23.38 |
| | | 132322 | 1745.0 | 1 / 0 | 23.47 |
| | | 132657 | 1778.5 | 1 / 0 | 23.54 |
| | 16-QAM | 131987 | 1711.5 | 1 / 14 | 22.55 |
| | | 132322 | 1745.0 | 1 / 14 | 22.58 |
| | | 132657 | 1778.5 | 1 / 7 | 22.76 |
| 1.4 MHz | QPSK | 131979 | 1710.7 | 1 / 0 | 23.36 |
| | | 132322 | 1745.0 | 1 / 5 | 23.24 |
| | | 132665 | 1779.3 | 1 / 3 | 23.54 |
| | 16-QAM | 131979 | 1710.7 | 1 / 3 | 22.53 |
| | | 132322 | 1745.0 | 1 / 5 | 22.48 |
| | | 132665 | 1779.3 | 1 / 5 | 22.68 |

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**Table 6-28
LTE Band 25/2 Conducted Powers – Ant A**

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | QPSK | 26140 | 1860.0 | 1 / 99 | 23.46 |
| | | 26365 | 1882.5 | 1 / 99 | 23.84 |
| | | 26590 | 1905.0 | 1 / 50 | 23.66 |
| | 16-QAM | 26140 | 1860.0 | 1 / 99 | 22.35 |
| | | 26365 | 1882.5 | 1 / 99 | 23.01 |
| | | 26590 | 1905.0 | 1 / 50 | 22.70 |
| 15 MHz | QPSK | 26115 | 1857.5 | 1 / 0 | 23.41 |
| | | 26365 | 1882.5 | 1 / 74 | 23.94 |
| | | 26615 | 1907.5 | 1 / 74 | 23.72 |
| | 16-QAM | 26115 | 1857.5 | 1 / 0 | 22.46 |
| | | 26365 | 1882.5 | 1 / 74 | 23.00 |
| | | 26615 | 1907.5 | 1 / 74 | 23.01 |
| 10 MHz | QPSK | 26090 | 1855.0 | 1 / 25 | 23.79 |
| | | 26365 | 1882.5 | 1 / 49 | 23.89 |
| | | 26640 | 1910.0 | 1 / 49 | 23.81 |
| | 16-QAM | 26090 | 1855.0 | 1 / 25 | 22.71 |
| | | 26365 | 1882.5 | 1 / 49 | 23.12 |
| | | 26640 | 1910.0 | 1 / 49 | 22.73 |
| 5 MHz | QPSK | 26065 | 1852.5 | 1 / 0 | 23.86 |
| | | 26365 | 1882.5 | 1 / 12 | 23.87 |
| | | 26665 | 1912.5 | 1 / 24 | 23.80 |
| | 16-QAM | 26065 | 1852.5 | 1 / 0 | 22.79 |
| | | 26365 | 1882.5 | 1 / 12 | 23.03 |
| | | 26665 | 1912.5 | 1 / 24 | 22.94 |
| 3 MHz | QPSK | 26055 | 1851.5 | 1 / 7 | 23.70 |
| | | 26365 | 1882.5 | 1 / 14 | 23.86 |
| | | 26675 | 1913.5 | 1 / 14 | 23.84 |
| | 16-QAM | 26055 | 1851.5 | 1 / 7 | 22.66 |
| | | 26365 | 1882.5 | 1 / 14 | 23.03 |
| | | 26675 | 1913.5 | 1 / 14 | 22.90 |
| 1.4 MHz | QPSK | 26047 | 1850.7 | 1 / 3 | 23.54 |
| | | 26365 | 1882.5 | 1 / 0 | 23.94 |
| | | 26683 | 1914.3 | 1 / 0 | 23.72 |
| | 16-QAM | 26047 | 1850.7 | 1 / 3 | 22.68 |
| | | 26365 | 1882.5 | 1 / 0 | 22.92 |
| | | 26683 | 1914.3 | 1 / 0 | 22.82 |

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**Table 6-29
LTE Band 25/2 Conducted Powers – Ant F**


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | QPSK | 26140 | 1860.0 | 1 / 0 | 23.97 |
| | | 26365 | 1882.5 | 1 / 50 | 24.07 |
| | | 26590 | 1905.0 | 1 / 99 | 24.01 |
| | 16-QAM | 26140 | 1860.0 | 1 / 0 | 22.86 |
| | | 26365 | 1882.5 | 1 / 50 | 23.20 |
| | | 26590 | 1905.0 | 1 / 99 | 23.09 |
| 15 MHz | QPSK | 26115 | 1857.5 | 1 / 37 | 23.92 |
| | | 26365 | 1882.5 | 1 / 37 | 24.07 |
| | | 26615 | 1907.5 | 1 / 74 | 23.88 |
| | 16-QAM | 26115 | 1857.5 | 1 / 37 | 22.97 |
| | | 26365 | 1882.5 | 1 / 37 | 23.25 |
| | | 26615 | 1907.5 | 1 / 74 | 22.94 |
| 10 MHz | QPSK | 26090 | 1855.0 | 1 / 49 | 24.11 |
| | | 26365 | 1882.5 | 1 / 49 | 24.06 |
| | | 26640 | 1910.0 | 1 / 25 | 23.77 |
| | 16-QAM | 26090 | 1855.0 | 1 / 49 | 23.03 |
| | | 26365 | 1882.5 | 1 / 49 | 23.07 |
| | | 26640 | 1910.0 | 1 / 25 | 22.89 |
| 5 MHz | QPSK | 26065 | 1852.5 | 1 / 24 | 23.93 |
| | | 26365 | 1882.5 | 1 / 0 | 24.19 |
| | | 26665 | 1912.5 | 1 / 24 | 24.18 |
| | 16-QAM | 26065 | 1852.5 | 1 / 24 | 22.79 |
| | | 26365 | 1882.5 | 1 / 0 | 23.05 |
| | | 26665 | 1912.5 | 1 / 24 | 23.10 |
| 3 MHz | QPSK | 26055 | 1851.5 | 1 / 7 | 24.01 |
| | | 26365 | 1882.5 | 1 / 14 | 24.03 |
| | | 26675 | 1913.5 | 1 / 7 | 23.99 |
| | 16-QAM | 26055 | 1851.5 | 1 / 7 | 23.08 |
| | | 26365 | 1882.5 | 1 / 14 | 23.18 |
| | | 26675 | 1913.5 | 1 / 7 | 23.11 |
| 1.4 MHz | QPSK | 26047 | 1850.7 | 1 / 3 | 23.84 |
| | | 26365 | 1882.5 | 1 / 0 | 24.08 |
| | | 26683 | 1914.3 | 1 / 3 | 23.93 |
| | 16-QAM | 26047 | 1850.7 | 1 / 3 | 22.89 |
| | | 26365 | 1882.5 | 1 / 0 | 23.19 |
| | | 26683 | 1914.3 | 1 / 3 | 22.90 |

**Table 6-30
LTE Band 30 Conducted Powers – Ant F**

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 10 MHz | QPSK | 27710 | 2310.0 | 1 / 25 | 22.54 |
| | 16-QAM | 27710 | 2310.0 | 1 / 0 | 21.82 |
| 5 MHz | QPSK | 27685 | 2307.5 | 1 / 12 | 22.52 |
| | | 27710 | 2310.0 | 1 / 24 | 22.75 |
| | | 27735 | 2312.5 | 1 / 0 | 22.59 |
| | 16-QAM | 27685 | 2307.5 | 1 / 12 | 21.80 |
| | | 27710 | 2310.0 | 1 / 12 | 21.79 |
| | | 27735 | 2312.5 | 1 / 0 | 21.95 |

**Table 6-31
LTE Band 30 Conducted Powers – Ant A**

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 10 MHz | QPSK | 27710 | 2310.0 | 1 / 25 | 22.97 |
| | 16-QAM | 27710 | 2310.0 | 1 / 25 | 22.16 |
| 5 MHz | QPSK | 27685 | 2307.5 | 1 / 0 | 22.75 |
| | | 27710 | 2310.0 | 1 / 0 | 22.92 |
| | | 27735 | 2312.5 | 1 / 0 | 22.84 |
| | 16-QAM | 27685 | 2307.5 | 1 / 0 | 21.50 |
| | | 27710 | 2310.0 | 1 / 0 | 22.04 |
| | | 27735 | 2312.5 | 1 / 0 | 20.74 |

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**Table 6-32
LTE Band 7 Conducted Powers – Ant B**

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | QPSK | 20850 | 2510.0 | 1 / 50 | 23.07 |
| | | 21100 | 2535.0 | 1 / 99 | 23.08 |
| | | 21350 | 2560.0 | 1 / 0 | 23.19 |
| | 16-QAM | 20850 | 2510.0 | 1 / 99 | 22.23 |
| | | 21100 | 2535.0 | 1 / 50 | 22.47 |
| | | 21350 | 2560.0 | 1 / 50 | 22.69 |
| 15 MHz | QPSK | 20825 | 2507.5 | 1 / 37 | 23.02 |
| | | 21100 | 2535.0 | 1 / 37 | 23.22 |
| | | 21375 | 2562.5 | 1 / 74 | 23.28 |
| | 16-QAM | 20825 | 2507.5 | 1 / 74 | 22.27 |
| | | 21100 | 2535.0 | 1 / 37 | 22.39 |
| | | 21375 | 2562.5 | 1 / 74 | 22.44 |
| 10 MHz | QPSK | 20800 | 2505.0 | 1 / 25 | 23.04 |
| | | 21100 | 2535.0 | 1 / 25 | 23.27 |
| | | 21400 | 2565.0 | 1 / 25 | 23.37 |
| | 16-QAM | 20800 | 2505.0 | 1 / 0 | 22.27 |
| | | 21100 | 2535.0 | 1 / 25 | 22.72 |
| | | 21400 | 2565.0 | 1 / 25 | 22.73 |
| 5 MHz | QPSK | 20775 | 2502.5 | 1 / 12 | 23.03 |
| | | 21100 | 2535.0 | 1 / 12 | 23.27 |
| | | 21425 | 2567.5 | 1 / 24 | 23.33 |
| | 16-QAM | 20775 | 2502.5 | 1 / 24 | 22.13 |
| | | 21100 | 2535.0 | 1 / 24 | 22.65 |
| | | 21425 | 2567.5 | 1 / 24 | 22.59 |

**Table 6-33
LTE Band 7 Conducted Powers – Ant F**

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | QPSK | 20850 | 2510.0 | 1 / 0 | 23.21 |
| | | 21100 | 2535.0 | 1 / 99 | 23.54 |
| | | 21350 | 2560.0 | 1 / 99 | 23.41 |
| | 16-QAM | 20850 | 2510.0 | 1 / 0 | 22.35 |
| | | 21100 | 2535.0 | 1 / 99 | 22.68 |
| | | 21350 | 2560.0 | 1 / 99 | 22.57 |
| 15 MHz | QPSK | 20825 | 2507.5 | 1 / 74 | 23.22 |
| | | 21100 | 2535.0 | 1 / 74 | 23.55 |
| | | 21375 | 2562.5 | 1 / 74 | 23.46 |
| | 16-QAM | 20825 | 2507.5 | 1 / 74 | 22.59 |
| | | 21100 | 2535.0 | 1 / 74 | 22.47 |
| | | 21375 | 2562.5 | 1 / 74 | 22.94 |
| 10 MHz | QPSK | 20800 | 2505.0 | 1 / 49 | 23.46 |
| | | 21100 | 2535.0 | 1 / 49 | 23.51 |
| | | 21400 | 2565.0 | 1 / 25 | 23.71 |
| | 16-QAM | 20800 | 2505.0 | 1 / 49 | 22.71 |
| | | 21100 | 2535.0 | 1 / 49 | 22.59 |
| | | 21400 | 2565.0 | 1 / 25 | 22.72 |
| 5 MHz | QPSK | 20775 | 2502.5 | 1 / 24 | 23.43 |
| | | 21100 | 2535.0 | 1 / 12 | 23.66 |
| | | 21425 | 2567.5 | 1 / 24 | 23.89 |
| | 16-QAM | 20775 | 2502.5 | 1 / 24 | 22.40 |
| | | 21100 | 2535.0 | 1 / 12 | 22.62 |
| | | 21425 | 2567.5 | 1 / 24 | 22.77 |

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Table 6-34
LTE Band 41/38 Power Class 3 Conducted Powers – Ant B

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | QPSK | 39750 | 2506.0 | 1 / 99 | 23.52 |
| | | 40620 | 2593.0 | 1 / 0 | 23.51 |
| | | 41490 | 2680.0 | 1 / 50 | 23.27 |
| | 16-QAM | 39750 | 2506.0 | 1 / 99 | 22.69 |
| | | 40620 | 2593.0 | 1 / 0 | 22.62 |
| 15 MHz | QPSK | 41490 | 2680.0 | 1 / 50 | 22.56 |
| | | 39725 | 2503.5 | 1 / 74 | 23.35 |
| | | 40620 | 2593.0 | 1 / 0 | 23.34 |
| | 16-QAM | 41515 | 2682.5 | 1 / 0 | 23.07 |
| | | 39725 | 2503.5 | 1 / 74 | 22.73 |
| | | 40620 | 2593.0 | 1 / 0 | 22.60 |
| 10 MHz | QPSK | 41515 | 2682.5 | 1 / 0 | 22.70 |
| | | 39700 | 2501.0 | 1 / 0 | 23.26 |
| | | 40620 | 2593.0 | 1 / 0 | 23.22 |
| | 16-QAM | 41540 | 2685.0 | 1 / 25 | 23.13 |
| | | 39700 | 2501.0 | 1 / 0 | 22.28 |
| | | 40620 | 2593.0 | 1 / 0 | 22.60 |
| 5 MHz | QPSK | 41540 | 2685.0 | 1 / 25 | 22.25 |
| | | 39675 | 2498.5 | 1 / 24 | 23.45 |
| | | 40620 | 2593.0 | 1 / 0 | 23.36 |
| | 16-QAM | 41565 | 2687.5 | 1 / 0 | 23.20 |
| | | 39675 | 2498.5 | 1 / 24 | 22.44 |
| | | 40620 | 2593.0 | 1 / 0 | 22.23 |
| | | 41565 | 2687.5 | 1 / 0 | 22.36 |

Table 6-35
LTE Band 41/38 Power Class 3 Conducted Powers – Ant F

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | QPSK | 39750 | 2506.0 | 1 / 50 | 23.94 |
| | | 40620 | 2593.0 | 1 / 50 | 23.79 |
| | | 41490 | 2680.0 | 1 / 50 | 23.83 |
| | 16-QAM | 39750 | 2506.0 | 1 / 99 | 23.41 |
| | | 40620 | 2593.0 | 1 / 50 | 23.53 |
| 15 MHz | QPSK | 41490 | 2680.0 | 1 / 99 | 22.90 |
| | | 39725 | 2503.5 | 1 / 37 | 24.07 |
| | | 40620 | 2593.0 | 1 / 0 | 24.78 |
| | 16-QAM | 41515 | 2682.5 | 1 / 37 | 23.84 |
| | | 39725 | 2503.5 | 1 / 74 | 23.29 |
| | | 40620 | 2593.0 | 1 / 37 | 23.56 |
| 10 MHz | QPSK | 41515 | 2682.5 | 1 / 74 | 23.19 |
| | | 39700 | 2501.0 | 1 / 25 | 24.78 |
| | | 40620 | 2593.0 | 1 / 0 | 24.59 |
| | 16-QAM | 41540 | 2685.0 | 1 / 25 | 24.48 |
| | | 39700 | 2501.0 | 1 / 49 | 23.14 |
| | | 40620 | 2593.0 | 1 / 49 | 23.33 |
| 5 MHz | QPSK | 41540 | 2685.0 | 1 / 49 | 22.93 |
| | | 39675 | 2498.5 | 1 / 0 | 24.92 |
| | | 40620 | 2593.0 | 1 / 0 | 24.98 |
| | 16-QAM | 41565 | 2687.5 | 1 / 0 | 24.52 |
| | | 39675 | 2498.5 | 1 / 24 | 23.89 |
| | | 40620 | 2593.0 | 1 / 24 | 23.10 |
| | | 41565 | 2687.5 | 1 / 24 | 23.79 |

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Table 6-36
LTE Band 41 Power Class 2 Conducted Powers – Ant B

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | QPSK | 39750 | 2506.0 | 1 / 0 | 25.09 |
| | | 40620 | 2593.0 | 1 / 0 | 25.37 |
| | | 41490 | 2680.0 | 1 / 0 | 24.93 |
| | 16-QAM | 39750 | 2506.0 | 1 / 0 | 24.51 |
| | | 40620 | 2593.0 | 1 / 0 | 24.90 |
| 15 MHz | QPSK | 41490 | 2680.0 | 1 / 0 | 24.34 |
| | | 39725 | 2503.5 | 1 / 74 | 25.16 |
| | | 40620 | 2593.0 | 1 / 0 | 25.10 |
| | 16-QAM | 41515 | 2682.5 | 1 / 0 | 24.87 |
| | | 39725 | 2503.5 | 1 / 74 | 24.48 |
| | | 40620 | 2593.0 | 1 / 0 | 24.68 |
| 10 MHz | QPSK | 41515 | 2682.5 | 1 / 0 | 24.29 |
| | | 39700 | 2501.0 | 1 / 0 | 24.96 |
| | | 40620 | 2593.0 | 1 / 0 | 25.02 |
| | 16-QAM | 41540 | 2685.0 | 1 / 0 | 24.82 |
| | | 39700 | 2501.0 | 1 / 0 | 24.39 |
| | | 40620 | 2593.0 | 1 / 0 | 24.20 |
| 5 MHz | QPSK | 41540 | 2685.0 | 1 / 0 | 24.12 |
| | | 39675 | 2498.5 | 1 / 0 | 25.12 |
| | | 40620 | 2593.0 | 1 / 0 | 25.06 |
| | 16-QAM | 41565 | 2687.5 | 1 / 0 | 24.88 |
| | | 39675 | 2498.5 | 1 / 0 | 24.14 |
| | | 40620 | 2593.0 | 1 / 0 | 24.15 |
| | | 41565 | 2687.5 | 1 / 0 | 24.17 |

Table 6-37
LTE Band 41 Power Class 2 Conducted Powers – Ant B

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | QPSK | 39750 | 2506.0 | 1 / 50 | 25.75 |
| | | 40620 | 2593.0 | 1 / 50 | 25.20 |
| | | 41490 | 2680.0 | 1 / 50 | 25.52 |
| | 16-QAM | 39750 | 2506.0 | 1 / 99 | 25.14 |
| | | 40620 | 2593.0 | 1 / 50 | 25.05 |
| 15 MHz | QPSK | 41490 | 2680.0 | 1 / 99 | 24.67 |
| | | 39725 | 2503.5 | 1 / 0 | 26.52 |
| | | 40620 | 2593.0 | 1 / 0 | 26.43 |
| | 16-QAM | 41515 | 2682.5 | 1 / 74 | 26.70 |
| | | 39725 | 2503.5 | 1 / 74 | 25.29 |
| | | 40620 | 2593.0 | 1 / 37 | 25.05 |
| 10 MHz | QPSK | 41515 | 2682.5 | 1 / 74 | 24.91 |
| | | 39700 | 2501.0 | 1 / 25 | 26.66 |
| | | 40620 | 2593.0 | 1 / 0 | 26.22 |
| | 16-QAM | 41540 | 2685.0 | 1 / 25 | 26.05 |
| | | 39700 | 2501.0 | 1 / 25 | 24.78 |
| | | 40620 | 2593.0 | 1 / 25 | 24.96 |
| 5 MHz | QPSK | 41540 | 2685.0 | 1 / 49 | 24.45 |
| | | 39675 | 2498.5 | 1 / 0 | 26.78 |
| | | 40620 | 2593.0 | 1 / 0 | 26.55 |
| | 16-QAM | 41565 | 2687.5 | 1 / 0 | 26.25 |
| | | 39675 | 2498.5 | 1 / 24 | 24.54 |
| | | 40620 | 2593.0 | 1 / 24 | 24.76 |
| | | 41565 | 2687.5 | 1 / 24 | 24.41 |

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Table 6-38
LTE Band 48 Power Class 3 Conducted Powers – Ant xx

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | QPSK | 55340 | 3560.0 | 1 / 1 | 21.88 |
| | | 55990 | 3625.0 | 1 / 1 | 21.76 |
| | | 56640 | 3690.0 | 1 / 49 | 21.71 |
| | 16-QAM | 55340 | 3560.0 | 1 / 1 | 21.09 |
| | | 55990 | 3625.0 | 1 / 1 | 21.04 |
| | | 56640 | 3690.0 | 1 / 49 | 21.15 |
| 15 MHz | QPSK | 55315 | 3557.5 | 1 / 19 | 21.88 |
| | | 55990 | 3625.0 | 1 / 1 | 21.46 |
| | | 56665 | 3692.5 | 1 / 36 | 21.69 |
| | 16-QAM | 55315 | 3557.5 | 1 / 19 | 21.22 |
| | | 55990 | 3625.0 | 1 / 1 | 20.71 |
| | | 56665 | 3692.5 | 1 / 36 | 21.00 |
| 10 MHz | QPSK | 55290 | 3555.0 | 1 / 1 | 22.16 |
| | | 55990 | 3625.0 | 1 / 1 | 21.79 |
| | | 56690 | 3695.0 | 1 / 22 | 21.98 |
| | 16-QAM | 55290 | 3555.0 | 1 / 1 | 21.28 |
| | | 55990 | 3625.0 | 1 / 1 | 20.74 |
| | | 56690 | 3695.0 | 1 / 22 | 21.17 |
| 5 MHz | QPSK | 55265 | 3552.5 | 1 / 5 | 22.15 |
| | | 55990 | 3625.0 | 1 / 1 | 21.61 |
| | | 56715 | 3697.5 | 1 / 9 | 21.96 |
| | 16-QAM | 55265 | 3552.5 | 1 / 5 | 21.34 |
| | | 55990 | 3625.0 | 1 / 1 | 20.71 |
| | | 56715 | 3697.5 | 1 / 9 | 21.01 |

Table 6-39
NR Band 71 Conducted Powers – Ant A

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | π/2 BPSK | 134600 | 673.0 | 1 / 1 | 23.96 |
| | | 136100 | 680.5 | 1 / 1 | 24.02 |
| | | 137600 | 688.0 | 1 / 104 | 24.06 |
| | QPSK | 134600 | 673.0 | 1 / 1 | 23.93 |
| | | 136100 | 680.5 | 1 / 1 | 23.79 |
| | | 137600 | 688.0 | 1 / 104 | 23.92 |
| | 16-QAM | 134600 | 673.0 | 1 / 104 | 23.05 |
| | | 136100 | 680.5 | 1 / 53 | 23.05 |
| | | 137600 | 688.0 | 1 / 1 | 23.01 |
| 15 MHz | π/2 BPSK | 134100 | 670.5 | 1 / 1 | 24.18 |
| | | 136100 | 680.5 | 1 / 39 | 24.00 |
| | | 138100 | 690.5 | 1 / 77 | 24.13 |
| | QPSK | 134100 | 670.5 | 1 / 39 | 24.04 |
| | | 136100 | 680.5 | 1 / 77 | 23.96 |
| | | 138100 | 690.5 | 1 / 77 | 24.10 |
| | 16-QAM | 134100 | 670.5 | 1 / 39 | 23.05 |
| | | 136100 | 680.5 | 1 / 39 | 22.93 |
| | | 138100 | 690.5 | 1 / 39 | 22.96 |
| 10 MHz | π/2 BPSK | 133600 | 668.0 | 1 / 1 | 24.09 |
| | | 136100 | 680.5 | 1 / 50 | 24.08 |
| | | 138600 | 693.0 | 1 / 26 | 23.98 |
| | QPSK | 133600 | 668.0 | 1 / 50 | 24.00 |
| | | 136100 | 680.5 | 1 / 1 | 24.04 |
| | | 138600 | 693.0 | 1 / 26 | 23.91 |
| | 16-QAM | 133600 | 668.0 | 1 / 50 | 22.82 |
| | | 136100 | 680.5 | 1 / 26 | 23.07 |
| | | 138600 | 693.0 | 1 / 50 | 22.86 |
| 5 MHz | π/2 BPSK | 133100 | 665.5 | 1 / 12 | 23.96 |
| | | 136100 | 680.5 | 1 / 12 | 24.09 |
| | | 139100 | 695.5 | 1 / 23 | 24.07 |
| | QPSK | 133100 | 665.5 | 1 / 12 | 24.09 |
| | | 136100 | 680.5 | 1 / 1 | 24.15 |
| | | 139100 | 695.5 | 1 / 23 | 24.13 |
| | 16-QAM | 133100 | 665.5 | 1 / 1 | 23.18 |
| | | 136100 | 680.5 | 1 / 1 | 23.45 |
| | | 139100 | 695.5 | 1 / 23 | 23.13 |

Table 6-40
NR Band 71 Conducted Powers – Ant E

| | | | |
|---|--|---------------------------------------|--|
| FCC ID: A3LSMS928U |  element | HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
| Filename: 1M2308210092-26.A3L | Test Dates: 10/3/2023 – 10/23/2023 | DUT Type: Portable Handset | Page 29 of 59 |


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| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | π/2 BPSK | 134600 | 673.0 | 1 / 104 | 23.91 |
| | | 136100 | 680.5 | 1 / 53 | 23.88 |
| | | 137600 | 688.0 | 1 / 104 | 23.99 |
| | QPSK | 134600 | 673.0 | 1 / 104 | 23.96 |
| | | 136100 | 680.5 | 1 / 104 | 23.76 |
| | | 137600 | 688.0 | 1 / 53 | 23.80 |
| | 16-QAM | 134600 | 673.0 | 1 / 104 | 22.55 |
| | | 136100 | 680.5 | 1 / 1 | 22.76 |
| | | 137600 | 688.0 | 1 / 53 | 22.62 |
| 15 MHz | π/2 BPSK | 134100 | 670.5 | 1 / 77 | 23.63 |
| | | 136100 | 680.5 | 1 / 77 | 23.81 |
| | | 138100 | 690.5 | 1 / 39 | 23.72 |
| | QPSK | 134100 | 670.5 | 1 / 77 | 23.48 |
| | | 136100 | 680.5 | 1 / 39 | 23.72 |
| | | 138100 | 690.5 | 1 / 77 | 23.84 |
| | 16-QAM | 134100 | 670.5 | 1 / 77 | 22.50 |
| | | 136100 | 680.5 | 1 / 77 | 22.83 |
| | | 138100 | 690.5 | 1 / 39 | 22.48 |
| 10 MHz | π/2 BPSK | 133600 | 668.0 | 1 / 50 | 23.70 |
| | | 136100 | 680.5 | 1 / 26 | 23.94 |
| | | 138600 | 693.0 | 1 / 50 | 24.11 |
| | QPSK | 133600 | 668.0 | 1 / 50 | 23.58 |
| | | 136100 | 680.5 | 1 / 1 | 23.81 |
| | | 138600 | 693.0 | 1 / 26 | 23.87 |
| | 16-QAM | 133600 | 668.0 | 1 / 50 | 22.60 |
| | | 136100 | 680.5 | 1 / 26 | 22.61 |
| | | 138600 | 693.0 | 1 / 50 | 22.80 |
| 5 MHz | π/2 BPSK | 133100 | 665.5 | 1 / 23 | 23.62 |
| | | 136100 | 680.5 | 1 / 12 | 24.00 |
| | | 139100 | 695.5 | 1 / 23 | 24.06 |
| | QPSK | 133100 | 665.5 | 1 / 12 | 23.68 |
| | | 136100 | 680.5 | 1 / 1 | 23.86 |
| | | 139100 | 695.5 | 1 / 12 | 23.89 |
| | 16-QAM | 133100 | 665.5 | 1 / 23 | 22.40 |
| | | 136100 | 680.5 | 1 / 1 | 22.72 |
| | | 139100 | 695.5 | 1 / 12 | 22.92 |

Table 6-41
NR Band 12 Conducted Powers – Ant A

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 15 MHz | π/2 BPSK | 141300 | 706.5 | 1 / 77 | 23.91 |
| | | 141500 | 707.5 | 1 / 77 | 23.88 |
| | | 141700 | 708.5 | 1 / 77 | 24.07 |
| | QPSK | 141300 | 706.5 | 1 / 39 | 23.91 |
| | | 141500 | 707.5 | 1 / 1 | 23.96 |
| | | 141700 | 708.5 | 1 / 1 | 23.84 |
| | 16-QAM | 141300 | 706.5 | 1 / 1 | 23.18 |
| | | 141500 | 707.5 | 1 / 39 | 22.77 |
| | | 141700 | 708.5 | 1 / 1 | 22.82 |
| 10 MHz | π/2 BPSK | 140800 | 704.0 | 1 / 50 | 23.96 |
| | | 141500 | 707.5 | 1 / 50 | 23.98 |
| | | 142200 | 711.0 | 1 / 50 | 23.93 |
| | QPSK | 140800 | 704.0 | 1 / 26 | 23.74 |
| | | 141500 | 707.5 | 1 / 50 | 23.92 |
| | | 142200 | 711.0 | 1 / 1 | 23.80 |
| | 16-QAM | 140800 | 704.0 | 1 / 1 | 22.81 |
| | | 141500 | 707.5 | 1 / 26 | 22.85 |
| | | 142200 | 711.0 | 1 / 50 | 23.02 |
| 5 MHz | π/2 BPSK | 140300 | 701.5 | 1 / 1 | 23.89 |
| | | 141500 | 707.5 | 1 / 12 | 23.89 |
| | | 142700 | 713.5 | 1 / 12 | 24.20 |
| | QPSK | 140300 | 701.5 | 1 / 1 | 23.31 |
| | | 141500 | 707.5 | 1 / 12 | 24.04 |
| | | 142700 | 713.5 | 1 / 1 | 24.15 |
| | 16-QAM | 140300 | 701.5 | 1 / 23 | 22.66 |
| | | 141500 | 707.5 | 1 / 23 | 23.05 |
| | | 142700 | 713.5 | 1 / 12 | 22.82 |

Table 6-42
NR Band 12 Conducted Powers – Ant E


| | | | |
|---|--|---------------------------------------|--|
| FCC ID: A3LSMS928U |  element | HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
| Filename: 1M2308210092-26.A3L | Test Dates: 10/3/2023 – 10/23/2023 | DUT Type: Portable Handset | Page 30 of 59 |

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| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 15 MHz | π/2 BPSK | 141300 | 706.5 | 1 / 77 | 24.42 |
| | | 141500 | 707.5 | 1 / 77 | 24.39 |
| | | 141700 | 708.5 | 1 / 77 | 24.32 |
| | QPSK | 141300 | 706.5 | 1 / 77 | 24.22 |
| | | 141500 | 707.5 | 1 / 1 | 24.25 |
| | | 141700 | 708.5 | 1 / 77 | 24.28 |
| | | 141300 | 706.5 | 1 / 77 | 23.25 |
| | | 141500 | 707.5 | 1 / 77 | 23.25 |
| | | 141700 | 708.5 | 1 / 39 | 23.51 |
| 10 MHz | π/2 BPSK | 140800 | 704.0 | 1 / 50 | 24.53 |
| | | 141500 | 707.5 | 1 / 26 | 24.43 |
| | | 142200 | 711.0 | 1 / 26 | 24.27 |
| | QPSK | 140800 | 704.0 | 1 / 26 | 24.36 |
| | | 141500 | 707.5 | 1 / 1 | 24.32 |
| | | 142200 | 711.0 | 1 / 50 | 24.38 |
| | | 140800 | 704.0 | 1 / 50 | 23.31 |
| | | 141500 | 707.5 | 1 / 50 | 23.46 |
| | | 142200 | 711.0 | 1 / 1 | 23.21 |
| 5 MHz | π/2 BPSK | 140300 | 701.5 | 1 / 12 | 24.46 |
| | | 141500 | 707.5 | 1 / 23 | 24.54 |
| | | 142700 | 713.5 | 1 / 12 | 24.35 |
| | QPSK | 140300 | 701.5 | 1 / 12 | 24.33 |
| | | 141500 | 707.5 | 1 / 1 | 24.37 |
| | | 142700 | 713.5 | 1 / 12 | 24.50 |
| | | 140300 | 701.5 | 1 / 23 | 23.27 |
| | | 141500 | 707.5 | 1 / 23 | 23.27 |
| | | 142700 | 713.5 | 1 / 1 | 23.34 |

**Table 6-43
NR Band 26/5 Conducted Powers – Ant A**

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | π/2 BPSK | 166800 | 834.0 | 1 / 1 | 23.95 |
| | | 167300 | 836.5 | 1 / 1 | 23.96 |
| | | 167800 | 839.0 | 1 / 104 | 23.93 |
| | QPSK | 166800 | 834.0 | 1 / 104 | 23.87 |
| | | 167300 | 836.5 | 1 / 53 | 24.00 |
| | | 167800 | 839.0 | 1 / 104 | 23.96 |
| | | 166800 | 834.0 | 1 / 1 | 22.76 |
| | | 167300 | 836.5 | 1 / 53 | 22.75 |
| | | 167800 | 839.0 | 1 / 104 | 22.97 |
| 15 MHz | π/2 BPSK | 166300 | 831.5 | 1 / 77 | 23.88 |
| | | 167300 | 836.5 | 1 / 77 | 23.88 |
| | | 168300 | 841.5 | 1 / 1 | 24.08 |
| | QPSK | 166300 | 831.5 | 1 / 77 | 23.84 |
| | | 167300 | 836.5 | 1 / 1 | 23.89 |
| | | 168300 | 841.5 | 1 / 77 | 23.97 |
| | | 166300 | 831.5 | 1 / 77 | 22.75 |
| | | 167300 | 836.5 | 1 / 1 | 22.57 |
| | | 168300 | 841.5 | 1 / 1 | 22.97 |
| 10 MHz | π/2 BPSK | 165800 | 829.0 | 1 / 1 | 23.99 |
| | | 167300 | 836.5 | 1 / 26 | 23.98 |
| | | 168800 | 844.0 | 1 / 1 | 24.07 |
| | QPSK | 165800 | 829.0 | 1 / 26 | 23.95 |
| | | 167300 | 836.5 | 1 / 26 | 23.94 |
| | | 168800 | 844.0 | 1 / 1 | 23.90 |
| | | 165800 | 829.0 | 1 / 1 | 22.88 |
| | | 167300 | 836.5 | 1 / 26 | 22.96 |
| | | 168800 | 844.0 | 1 / 1 | 22.62 |
| 5 MHz | π/2 BPSK | 165300 | 826.5 | 1 / 1 | 24.01 |
| | | 167300 | 836.5 | 1 / 1 | 23.95 |
| | | 169300 | 846.5 | 1 / 12 | 24.17 |
| | QPSK | 165300 | 826.5 | 1 / 1 | 24.15 |
| | | 167300 | 836.5 | 1 / 1 | 24.00 |
| | | 169300 | 846.5 | 1 / 1 | 24.20 |
| | | 165300 | 826.5 | 1 / 1 | 22.80 |
| | | 167300 | 836.5 | 1 / 1 | 22.88 |
| | | 169300 | 846.5 | 1 / 1 | 22.91 |

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| FCC ID: A3LSMS928U |  HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
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Table 6-44
NR Band 26/5 Conducted Powers – Ant E

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 20 MHz | π/2 BPSK | 166800 | 834.0 | 1 / 1 | 23.19 |
| | | 167300 | 836.5 | 1 / 53 | 23.27 |
| | | 167800 | 839.0 | 1 / 104 | 23.19 |
| | QPSK | 166800 | 834.0 | 1 / 1 | 23.14 |
| | | 167300 | 836.5 | 1 / 53 | 23.14 |
| | | 167800 | 839.0 | 1 / 53 | 23.30 |
| | 16-QAM | 166800 | 834.0 | 1 / 1 | 22.44 |
| | | 167300 | 836.5 | 1 / 53 | 22.33 |
| | | 167800 | 839.0 | 1 / 53 | 22.46 |
| 15 MHz | π/2 BPSK | 166300 | 831.5 | 1 / 77 | 23.21 |
| | | 167300 | 836.5 | 1 / 1 | 23.15 |
| | | 168300 | 841.5 | 1 / 1 | 23.12 |
| | QPSK | 166300 | 831.5 | 1 / 1 | 23.13 |
| | | 167300 | 836.5 | 1 / 1 | 23.13 |
| | | 168300 | 841.5 | 1 / 77 | 23.09 |
| | 16-QAM | 166300 | 831.5 | 1 / 77 | 22.64 |
| | | 167300 | 836.5 | 1 / 1 | 22.57 |
| | | 168300 | 841.5 | 1 / 1 | 22.74 |
| 10 MHz | π/2 BPSK | 165800 | 829.0 | 1 / 50 | 23.37 |
| | | 167300 | 836.5 | 1 / 50 | 23.15 |
| | | 168800 | 844.0 | 1 / 50 | 23.33 |
| | QPSK | 165800 | 829.0 | 1 / 50 | 23.27 |
| | | 167300 | 836.5 | 1 / 1 | 23.17 |
| | | 168800 | 844.0 | 1 / 50 | 23.28 |
| | 16-QAM | 165800 | 829.0 | 1 / 50 | 22.62 |
| | | 167300 | 836.5 | 1 / 1 | 22.65 |
| | | 168800 | 844.0 | 1 / 50 | 22.29 |
| 5 MHz | π/2 BPSK | 165300 | 826.5 | 1 / 1 | 23.38 |
| | | 167300 | 836.5 | 1 / 23 | 23.25 |
| | | 169300 | 846.5 | 1 / 1 | 23.44 |
| | QPSK | 165300 | 826.5 | 1 / 12 | 23.28 |
| | | 167300 | 836.5 | 1 / 23 | 23.32 |
| | | 169300 | 846.5 | 1 / 23 | 23.23 |
| | 16-QAM | 165300 | 826.5 | 1 / 1 | 22.44 |
| | | 167300 | 836.5 | 1 / 23 | 22.57 |
| | | 169300 | 846.5 | 1 / 1 | 22.50 |

Table 6-45
NR Band 70 Conducted Powers – Ant A


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 15 MHz | π/2 BPSK | 340500 | 1702.5 | 1 / 1 | 23.21 |
| | QPSK | 340500 | 1702.5 | 1 / 39 | 23.12 |
| | 16-QAM | 340500 | 1702.5 | 1 / 1 | 22.32 |
| 10 MHz | π/2 BPSK | 340000 | 1700.0 | 1 / 1 | 23.35 |
| | | 340500 | 1702.5 | 1 / 1 | 23.33 |
| | | 341000 | 1705.0 | 1 / 1 | 23.47 |
| | QPSK | 340000 | 1700.0 | 1 / 1 | 23.38 |
| | | 340500 | 1702.5 | 1 / 1 | 23.35 |
| | | 341000 | 1705.0 | 1 / 1 | 23.34 |
| | 16-QAM | 340000 | 1700.0 | 1 / 1 | 22.15 |
| | | 340500 | 1702.5 | 1 / 50 | 22.24 |
| | | 341000 | 1705.0 | 1 / 26 | 22.22 |
| 5 MHz | π/2 BPSK | 339500 | 1697.5 | 1 / 23 | 23.36 |
| | | 340500 | 1702.5 | 1 / 1 | 23.39 |
| | | 341500 | 1707.5 | 1 / 12 | 23.47 |
| | QPSK | 339500 | 1697.5 | 1 / 1 | 23.36 |
| | | 340500 | 1702.5 | 1 / 12 | 23.20 |
| | | 341500 | 1707.5 | 1 / 23 | 23.36 |
| | 16-QAM | 339500 | 1697.5 | 1 / 1 | 22.33 |
| | | 340500 | 1702.5 | 1 / 1 | 22.28 |
| | | 341500 | 1707.5 | 1 / 1 | 22.17 |

Table 6-46
NR Band 70 Conducted Powers – Ant F

| | | | |
|---|--|---------------------------------------|--|
| FCC ID: A3LSMS928U |  element | HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
| Filename: 1M2308210092-26.A3L | Test Dates: 10/3/2023 – 10/23/2023 | DUT Type: Portable Handset | Page 32 of 59 |

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| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] | |
|-----------|--------------|--------------|-----------------|----------------|-----------------------|-------|
| 15 MHz | $\pi/2$ BPSK | 340500 | 1702.5 | 1 / 1 | 22.25 | |
| | QPSK | 340500 | 1702.5 | 1 / 1 | 22.21 | |
| | 16-QAM | 340500 | 1702.5 | 1 / 77 | 22.34 | |
| 10 MHz | $\pi/2$ BPSK | 340000 | 1700.0 | 1 / 26 | 22.51 | |
| | | 340500 | 1702.5 | 1 / 1 | 22.45 | |
| | | 341000 | 1705.0 | 1 / 1 | 22.50 | |
| | QPSK | 340000 | 1700.0 | 1 / 26 | 22.35 | |
| | | 340500 | 1702.5 | 1 / 50 | 22.26 | |
| | | 341000 | 1705.0 | 1 / 1 | 22.28 | |
| | 16-QAM | 340000 | 1700.0 | 1 / 1 | 22.11 | |
| | | 340500 | 1702.5 | 1 / 50 | 22.28 | |
| | | 341000 | 1705.0 | 1 / 1 | 22.33 | |
| | 5 MHz | $\pi/2$ BPSK | 339500 | 1697.5 | 1 / 23 | 22.38 |
| | | | 340500 | 1702.5 | 1 / 12 | 22.44 |
| | | | 341500 | 1707.5 | 1 / 12 | 22.48 |
| QPSK | | 339500 | 1697.5 | 1 / 12 | 22.31 | |
| | | 340500 | 1702.5 | 1 / 1 | 22.32 | |
| | | 341500 | 1707.5 | 1 / 23 | 22.27 | |
| 16-QAM | | 339500 | 1697.5 | 1 / 1 | 22.25 | |
| | | 340500 | 1702.5 | 1 / 1 | 22.27 | |
| | | 341500 | 1707.5 | 1 / 12 | 22.26 | |


| | | |
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| FCC ID: A3LSMS928U |  HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
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**Table 6-47
NR Band 66 Conducted Powers – Ant A**


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 40 MHz | π/2 BPSK | 346000 | 1730.0 | 1 / 1 | 24.25 |
| | | 349000 | 1745.0 | 1 / 1 | 24.05 |
| | | 352000 | 1760.0 | 1 / 108 | 24.10 |
| | QPSK | 346000 | 1730.0 | 1 / 1 | 24.18 |
| | | 349000 | 1745.0 | 1 / 1 | 23.96 |
| | | 352000 | 1760.0 | 1 / 108 | 23.97 |
| | 16-QAM | 346000 | 1730.0 | 1 / 1 | 23.04 |
| | | 349000 | 1745.0 | 1 / 1 | 22.92 |
| | | 352000 | 1760.0 | 1 / 214 | 22.99 |
| 30 MHz | π/2 BPSK | 345000 | 1725.0 | 1 / 1 | 24.27 |
| | | 349000 | 1745.0 | 1 / 158 | 24.06 |
| | | 353000 | 1765.0 | 1 / 158 | 24.15 |
| | QPSK | 345000 | 1725.0 | 1 / 1 | 24.36 |
| | | 349000 | 1745.0 | 1 / 158 | 24.05 |
| | | 353000 | 1765.0 | 1 / 158 | 24.12 |
| | 16-QAM | 345000 | 1725.0 | 1 / 1 | 23.32 |
| | | 349000 | 1745.0 | 1 / 1 | 22.98 |
| | | 353000 | 1765.0 | 1 / 158 | 23.18 |
| 20 MHz | π/2 BPSK | 344000 | 1720.0 | 1 / 104 | 24.12 |
| | | 349000 | 1745.0 | 1 / 1 | 23.94 |
| | | 354000 | 1770.0 | 1 / 104 | 24.00 |
| | QPSK | 344000 | 1720.0 | 1 / 1 | 24.08 |
| | | 349000 | 1745.0 | 1 / 1 | 23.84 |
| | | 354000 | 1770.0 | 1 / 104 | 24.03 |
| | 16-QAM | 344000 | 1720.0 | 1 / 1 | 22.96 |
| | | 349000 | 1745.0 | 1 / 104 | 22.82 |
| | | 354000 | 1770.0 | 1 / 104 | 23.06 |
| 15 MHz | π/2 BPSK | 343500 | 1717.5 | 1 / 1 | 24.27 |
| | | 349000 | 1745.0 | 1 / 77 | 23.98 |
| | | 354500 | 1772.5 | 1 / 77 | 24.23 |
| | QPSK | 343500 | 1717.5 | 1 / 1 | 24.10 |
| | | 349000 | 1745.0 | 1 / 77 | 23.88 |
| | | 354500 | 1772.5 | 1 / 39 | 24.01 |
| | 16-QAM | 343500 | 1717.5 | 1 / 1 | 23.18 |
| | | 349000 | 1745.0 | 1 / 1 | 23.01 |
| | | 354500 | 1772.5 | 1 / 77 | 22.99 |
| 10 MHz | π/2 BPSK | 343000 | 1715.0 | 1 / 1 | 24.23 |
| | | 349000 | 1745.0 | 1 / 1 | 23.90 |
| | | 355000 | 1775.0 | 1 / 50 | 24.14 |
| | QPSK | 343000 | 1715.0 | 1 / 1 | 24.12 |
| | | 349000 | 1745.0 | 1 / 1 | 23.83 |
| | | 355000 | 1775.0 | 1 / 50 | 24.08 |
| | 16-QAM | 343000 | 1715.0 | 1 / 1 | 22.95 |
| | | 349000 | 1745.0 | 1 / 1 | 22.70 |
| | | 355000 | 1775.0 | 1 / 1 | 22.91 |
| 5 MHz | π/2 BPSK | 342500 | 1712.5 | 1 / 1 | 24.24 |
| | | 349000 | 1745.0 | 1 / 1 | 23.78 |
| | | 355500 | 1777.5 | 1 / 1 | 24.14 |
| | QPSK | 342500 | 1712.5 | 1 / 12 | 24.26 |
| | | 349000 | 1745.0 | 1 / 23 | 23.93 |
| | | 355500 | 1777.5 | 25 / 0 | 23.05 |
| | 16-QAM | 342500 | 1712.5 | 1 / 23 | 22.99 |
| | | 349000 | 1745.0 | 1 / 23 | 22.78 |
| | | 355500 | 1777.5 | 1 / 12 | 23.16 |

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**Table 6-48
NR Band 66 Conducted Powers – Ant F**


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 40 MHz | π/2 BPSK | 346000 | 1730.0 | 1 / 1 | 22.24 |
| | | 349000 | 1745.0 | 1 / 214 | 22.13 |
| | | 352000 | 1760.0 | 1 / 214 | 22.11 |
| | QPSK | 346000 | 1730.0 | 1 / 1 | 22.35 |
| | | 349000 | 1745.0 | 1 / 214 | 22.13 |
| | | 352000 | 1760.0 | 1 / 214 | 22.05 |
| | 16-QAM | 346000 | 1730.0 | 1 / 1 | 22.29 |
| | | 349000 | 1745.0 | 1 / 214 | 21.87 |
| | | 352000 | 1760.0 | 1 / 214 | 22.02 |
| 30 MHz | π/2 BPSK | 345000 | 1725.0 | 1 / 1 | 22.53 |
| | | 349000 | 1745.0 | 1 / 1 | 22.47 |
| | | 353000 | 1765.0 | 1 / 1 | 22.51 |
| | QPSK | 345000 | 1725.0 | 1 / 1 | 22.51 |
| | | 349000 | 1745.0 | 1 / 1 | 22.49 |
| | | 353000 | 1765.0 | 1 / 1 | 22.47 |
| | 16-QAM | 345000 | 1725.0 | 1 / 1 | 22.36 |
| | | 349000 | 1745.0 | 1 / 80 | 21.99 |
| | | 353000 | 1765.0 | 1 / 80 | 21.95 |
| 20 MHz | π/2 BPSK | 344000 | 1720.0 | 1 / 1 | 22.23 |
| | | 349000 | 1745.0 | 1 / 53 | 22.01 |
| | | 354000 | 1770.0 | 1 / 104 | 22.31 |
| | QPSK | 344000 | 1720.0 | 1 / 1 | 22.32 |
| | | 349000 | 1745.0 | 1 / 53 | 22.06 |
| | | 354000 | 1770.0 | 1 / 104 | 22.09 |
| | 16-QAM | 344000 | 1720.0 | 1 / 53 | 21.99 |
| | | 349000 | 1745.0 | 1 / 1 | 21.93 |
| | | 354000 | 1770.0 | 1 / 104 | 21.90 |
| 15 MHz | π/2 BPSK | 343500 | 1717.5 | 1 / 1 | 22.15 |
| | | 349000 | 1745.0 | 1 / 1 | 21.99 |
| | | 354500 | 1772.5 | 1 / 39 | 22.19 |
| | QPSK | 343500 | 1717.5 | 1 / 1 | 22.36 |
| | | 349000 | 1745.0 | 1 / 1 | 21.98 |
| | | 354500 | 1772.5 | 1 / 77 | 22.05 |
| | 16-QAM | 343500 | 1717.5 | 1 / 1 | 22.37 |
| | | 349000 | 1745.0 | 1 / 1 | 21.88 |
| | | 354500 | 1772.5 | 1 / 77 | 22.12 |
| 10 MHz | π/2 BPSK | 343000 | 1715.0 | 1 / 26 | 23.35 |
| | | 349000 | 1745.0 | 1 / 50 | 22.98 |
| | | 355000 | 1775.0 | 1 / 50 | 23.16 |
| | QPSK | 343000 | 1715.0 | 1 / 1 | 23.29 |
| | | 349000 | 1745.0 | 1 / 1 | 22.98 |
| | | 355000 | 1775.0 | 1 / 26 | 23.10 |
| | 16-QAM | 343000 | 1715.0 | 1 / 1 | 22.77 |
| | | 349000 | 1745.0 | 1 / 50 | 22.37 |
| | | 355000 | 1775.0 | 1 / 26 | 22.64 |
| 5 MHz | π/2 BPSK | 342500 | 1712.5 | 1 / 1 | 20.57 |
| | | 349000 | 1745.0 | 1 / 1 | 23.07 |
| | | 355500 | 1777.5 | 1 / 23 | 19.95 |
| | QPSK | 342500 | 1712.5 | 1 / 12 | 20.66 |
| | | 349000 | 1745.0 | 1 / 12 | 23.22 |
| | | 355500 | 1777.5 | 1 / 23 | 20.35 |
| | 16-QAM | 342500 | 1712.5 | 1 / 23 | 20.42 |
| | | 349000 | 1745.0 | 1 / 23 | 22.32 |
| | | 355500 | 1777.5 | 1 / 23 | 19.67 |

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| FCC ID: A3LSMS928U |  HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
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**Table 6-49
NR Band 25/2 Conducted Powers – Ant A**


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 40 MHz | π/2 BPSK | 374000 | 1870.0 | 1 / 214 | 23.79 |
| | | 376500 | 1882.5 | 1 / 108 | 23.69 |
| | | 379000 | 1895.0 | 1 / 108 | 23.56 |
| | QPSK | 374000 | 1870.0 | 1 / 214 | 23.70 |
| | | 376500 | 1882.5 | 1 / 108 | 23.67 |
| | | 379000 | 1895.0 | 1 / 108 | 23.53 |
| | 16-QAM | 374000 | 1870.0 | 1 / 214 | 22.50 |
| | | 376500 | 1882.5 | 1 / 108 | 22.72 |
| | | 379000 | 1895.0 | 1 / 108 | 22.40 |
| 35 MHz | π/2 BPSK | 373500 | 1867.5 | 1 / 186 | 23.69 |
| | | 376500 | 1882.5 | 1 / 90 | 23.87 |
| | | 379500 | 1897.5 | 1 / 90 | 23.74 |
| | QPSK | 373500 | 1867.5 | 1 / 186 | 23.68 |
| | | 376500 | 1882.5 | 1 / 186 | 23.76 |
| | | 379500 | 1897.5 | 1 / 90 | 23.80 |
| | 16-QAM | 373500 | 1867.5 | 1 / 186 | 22.56 |
| | | 376500 | 1882.5 | 1 / 90 | 22.56 |
| | | 379500 | 1897.5 | 1 / 90 | 22.54 |
| 30 MHz | π/2 BPSK | 373000 | 1865.0 | 1 / 80 | 23.59 |
| | | 376500 | 1882.5 | 1 / 80 | 23.81 |
| | | 380000 | 1900.0 | 1 / 1 | 23.68 |
| | QPSK | 373000 | 1865.0 | 1 / 158 | 23.61 |
| | | 376500 | 1882.5 | 1 / 158 | 23.72 |
| | | 380000 | 1900.0 | 1 / 1 | 23.75 |
| | 16-QAM | 373000 | 1865.0 | 1 / 158 | 22.40 |
| | | 376500 | 1882.5 | 1 / 158 | 22.67 |
| | | 380000 | 1900.0 | 1 / 1 | 22.60 |
| 25 MHz | π/2 BPSK | 372500 | 1862.5 | 1 / 66 | 23.55 |
| | | 376500 | 1882.5 | 1 / 66 | 23.72 |
| | | 380500 | 1902.5 | 1 / 1 | 23.71 |
| | QPSK | 372500 | 1862.5 | 1 / 66 | 23.54 |
| | | 376500 | 1882.5 | 1 / 66 | 23.81 |
| | | 380500 | 1902.5 | 1 / 1 | 23.72 |
| | 16-QAM | 372500 | 1862.5 | 1 / 66 | 22.20 |
| | | 376500 | 1882.5 | 1 / 66 | 22.59 |
| | | 380500 | 1902.5 | 1 / 1 | 22.48 |
| 20 MHz | π/2 BPSK | 372000 | 1860.0 | 1 / 104 | 23.46 |
| | | 376500 | 1882.5 | 1 / 104 | 23.61 |
| | | 381000 | 1905.0 | 1 / 1 | 23.45 |
| | QPSK | 372000 | 1860.0 | 1 / 53 | 23.33 |
| | | 376500 | 1882.5 | 1 / 104 | 23.57 |
| | | 381000 | 1905.0 | 1 / 1 | 23.48 |
| | 16-QAM | 372000 | 1860.0 | 1 / 104 | 22.43 |
| | | 376500 | 1882.5 | 1 / 104 | 22.50 |
| | | 381000 | 1905.0 | 1 / 1 | 22.38 |
| 15 MHz | π/2 BPSK | 371500 | 1857.5 | 1 / 1 | 23.64 |
| | | 376500 | 1882.5 | 1 / 1 | 23.62 |
| | | 381500 | 1907.5 | 1 / 77 | 23.55 |
| | QPSK | 371500 | 1857.5 | 1 / 1 | 23.44 |
| | | 376500 | 1882.5 | 1 / 77 | 23.55 |
| | | 381500 | 1907.5 | 1 / 39 | 23.51 |
| | 16-QAM | 371500 | 1857.5 | 1 / 1 | 22.33 |
| | | 376500 | 1882.5 | 1 / 1 | 22.52 |
| | | 381500 | 1907.5 | 1 / 77 | 22.47 |
| 10 MHz | π/2 BPSK | 371000 | 1855.0 | 1 / 26 | 23.46 |
| | | 376500 | 1882.5 | 1 / 50 | 23.63 |
| | | 382000 | 1910.0 | 1 / 26 | 23.55 |
| | QPSK | 371000 | 1855.0 | 1 / 26 | 23.54 |
| | | 376500 | 1882.5 | 1 / 1 | 23.64 |
| | | 382000 | 1910.0 | 1 / 26 | 23.47 |
| | 16-QAM | 371000 | 1855.0 | 1 / 26 | 22.40 |
| | | 376500 | 1882.5 | 1 / 1 | 22.47 |
| | | 382000 | 1910.0 | 1 / 26 | 22.20 |
| 5 MHz | π/2 BPSK | 370500 | 1852.5 | 1 / 23 | 23.57 |
| | | 376500 | 1882.5 | 1 / 23 | 23.74 |
| | | 382500 | 1912.5 | 1 / 1 | 23.62 |
| | QPSK | 370500 | 1852.5 | 1 / 1 | 23.52 |
| | | 376500 | 1882.5 | 1 / 12 | 23.84 |
| | | 382500 | 1912.5 | 1 / 12 | 23.69 |
| | 16-QAM | 370500 | 1852.5 | 1 / 23 | 22.31 |
| | | 376500 | 1882.5 | 1 / 12 | 22.48 |
| | | 382500 | 1912.5 | 1 / 12 | 22.66 |

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| FCC ID: A3LSMS928U |  element | HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
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**Table 6-50
NR Band 25/2 Conducted Powers – Ant F**

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 40 MHz | π/2 BPSK | 374000 | 1870.0 | 1 / 214 | 23.66 |
| | | 376500 | 1882.5 | 1 / 108 | 23.57 |
| | | 379000 | 1895.0 | 1 / 214 | 23.39 |
| | QPSK | 374000 | 1870.0 | 1 / 214 | 23.51 |
| | | 376500 | 1882.5 | 1 / 108 | 23.52 |
| | | 379000 | 1895.0 | 1 / 214 | 23.45 |
| | 16-QAM | 374000 | 1870.0 | 1 / 214 | 22.56 |
| | | 376500 | 1882.5 | 1 / 108 | 22.63 |
| | | 379000 | 1895.0 | 1 / 214 | 22.33 |
| 35 MHz | π/2 BPSK | 373500 | 1867.5 | 1 / 90 | 23.85 |
| | | 376500 | 1882.5 | 1 / 90 | 23.83 |
| | | 379500 | 1897.5 | 1 / 90 | 23.87 |
| | QPSK | 373500 | 1867.5 | 1 / 90 | 23.74 |
| | | 376500 | 1882.5 | 1 / 90 | 23.77 |
| | | 379500 | 1897.5 | 1 / 90 | 23.76 |
| | 16-QAM | 373500 | 1867.5 | 1 / 90 | 22.49 |
| | | 376500 | 1882.5 | 1 / 90 | 22.58 |
| | | 379500 | 1897.5 | 1 / 90 | 22.63 |
| 30 MHz | π/2 BPSK | 372000 | 1865.0 | 1 / 158 | 23.59 |
| | | 376500 | 1882.5 | 1 / 80 | 23.67 |
| | | 381000 | 1900.0 | 1 / 1 | 23.74 |
| | QPSK | 372000 | 1865.0 | 1 / 158 | 23.52 |
| | | 376500 | 1882.5 | 1 / 80 | 23.64 |
| | | 381000 | 1900.0 | 1 / 1 | 23.51 |
| | 16-QAM | 372000 | 1865.0 | 1 / 158 | 22.51 |
| | | 376500 | 1882.5 | 1 / 80 | 22.68 |
| | | 381000 | 1900.0 | 1 / 1 | 22.65 |
| 25 MHz | π/2 BPSK | 372000 | 1862.5 | 1 / 66 | 23.61 |
| | | 376500 | 1882.5 | 1 / 66 | 23.63 |
| | | 381000 | 1902.5 | 1 / 1 | 23.67 |
| | QPSK | 372000 | 1862.5 | 1 / 131 | 23.57 |
| | | 376500 | 1882.5 | 1 / 66 | 23.61 |
| | | 381000 | 1902.5 | 1 / 1 | 23.57 |
| | 16-QAM | 372000 | 1862.5 | 1 / 66 | 22.22 |
| | | 376500 | 1882.5 | 1 / 66 | 22.37 |
| | | 381000 | 1902.5 | 1 / 1 | 22.47 |
| 20 MHz | π/2 BPSK | 372000 | 1860.0 | 1 / 104 | 23.38 |
| | | 376500 | 1882.5 | 1 / 53 | 23.65 |
| | | 381000 | 1905.0 | 1 / 104 | 23.49 |
| | QPSK | 372000 | 1860.0 | 1 / 104 | 23.40 |
| | | 376500 | 1882.5 | 1 / 104 | 23.67 |
| | | 381000 | 1905.0 | 1 / 1 | 23.45 |
| | 16-QAM | 372000 | 1860.0 | 1 / 104 | 22.37 |
| | | 376500 | 1882.5 | 1 / 104 | 22.42 |
| | | 381000 | 1905.0 | 1 / 104 | 22.05 |
| 15 MHz | π/2 BPSK | 371500 | 1857.5 | 1 / 77 | 23.36 |
| | | 376500 | 1882.5 | 1 / 77 | 23.62 |
| | | 381500 | 1907.5 | 1 / 77 | 23.30 |
| | QPSK | 371500 | 1857.5 | 1 / 77 | 23.21 |
| | | 376500 | 1882.5 | 1 / 39 | 23.58 |
| | | 381500 | 1907.5 | 1 / 1 | 23.21 |
| | 16-QAM | 371500 | 1857.5 | 1 / 77 | 22.22 |
| | | 376500 | 1882.5 | 1 / 77 | 22.18 |
| | | 381500 | 1907.5 | 1 / 77 | 22.06 |
| 10 MHz | π/2 BPSK | 371000 | 1855.0 | 1 / 1 | 23.25 |
| | | 376500 | 1882.5 | 1 / 1 | 23.59 |
| | | 382000 | 1910.0 | 1 / 1 | 23.49 |
| | QPSK | 371000 | 1855.0 | 1 / 50 | 23.26 |
| | | 376500 | 1882.5 | 1 / 26 | 23.68 |
| | | 382000 | 1910.0 | 1 / 50 | 23.39 |
| | 16-QAM | 371000 | 1855.0 | 1 / 50 | 22.02 |
| | | 376500 | 1882.5 | 1 / 26 | 22.56 |
| | | 382000 | 1910.0 | 1 / 1 | 22.10 |
| 5 MHz | π/2 BPSK | 370500 | 1852.5 | 1 / 1 | 23.36 |
| | | 376500 | 1882.5 | 1 / 23 | 23.68 |
| | | 382500 | 1912.5 | 1 / 12 | 23.55 |
| | QPSK | 370500 | 1852.5 | 1 / 1 | 23.39 |
| | | 376500 | 1882.5 | 1 / 12 | 23.89 |
| | | 382500 | 1912.5 | 1 / 23 | 23.47 |
| | 16-QAM | 370500 | 1852.5 | 1 / 1 | 22.38 |
| | | 376500 | 1882.5 | 1 / 12 | 22.53 |
| | | 382500 | 1912.5 | 1 / 12 | 21.78 |

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**Table 6-51
NR Band 30 Conducted Powers – Ant F**

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|--------------|---------|-----------------|----------------|-----------------------|
| 10 MHz | $\pi/2$ BPSK | 27710 | 2310.0 | 1 / 1 | 22.72 |
| | QPSK | 27710 | 2310.0 | 1 / 1 | 22.62 |
| | 16-QAM | 27710 | 2310.0 | 1 / 1 | 21.35 |
| 5 MHz | $\pi/2$ BPSK | 27685 | 2307.5 | 1 / 12 | 22.65 |
| | | 27710 | 2310.0 | 1 / 1 | 22.94 |
| | | 27735 | 2312.5 | 1 / 1 | 22.44 |
| | QPSK | 27685 | 2307.5 | 1 / 12 | 22.71 |
| | | 27710 | 2310.0 | 1 / 1 | 22.77 |
| | | 27735 | 2312.5 | 1 / 1 | 22.51 |
| | 16-QAM | 27685 | 2307.5 | 1 / 1 | 21.58 |
| | | 27710 | 2310.0 | 1 / 1 | 21.76 |
| | | 27735 | 2312.5 | 1 / 12 | 21.70 |

**Table 6-52
NR Band 30 Conducted Powers – Ant A**


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|--------------|---------|-----------------|----------------|-----------------------|
| 10 MHz | $\pi/2$ BPSK | 27710 | 2310.0 | 1 / 26 | 21.57 |
| | QPSK | 27710 | 2310.0 | 1 / 26 | 21.55 |
| | 16-QAM | 27710 | 2310.0 | 1 / 26 | 20.71 |
| 5 MHz | $\pi/2$ BPSK | 27685 | 2307.5 | 1 / 1 | 21.59 |
| | | 27710 | 2310.0 | 1 / 23 | 21.85 |
| | | 27735 | 2312.5 | 1 / 1 | 21.65 |
| | QPSK | 27685 | 2307.5 | 1 / 1 | 21.59 |
| | | 27710 | 2310.0 | 1 / 23 | 21.73 |
| | | 27735 | 2312.5 | 1 / 1 | 21.74 |
| | 16-QAM | 27685 | 2307.5 | 1 / 1 | 20.68 |
| | | 27710 | 2310.0 | 1 / 23 | 20.38 |
| | | 27735 | 2312.5 | 1 / 1 | 20.45 |

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| FCC ID: A3LSMS928U |  element | HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
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**Table 6-53
NR Band 7 Conducted Powers – Ant B**


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 40 MHz | π/2 BPSK | 504000 | 2520.0 | 1 / 108 | 22.37 |
| | | 507000 | 2535.0 | 1 / 108 | 22.38 |
| | | 510000 | 2550.0 | 1 / 1 | 22.34 |
| | QPSK | 504000 | 2520.0 | 1 / 108 | 22.13 |
| | | 507000 | 2535.0 | 1 / 108 | 22.39 |
| | | 510000 | 2550.0 | 1 / 1 | 22.22 |
| | 16-QAM | 504000 | 2520.0 | 1 / 108 | 21.23 |
| | | 507000 | 2535.0 | 1 / 108 | 21.19 |
| | | 510000 | 2550.0 | 1 / 1 | 21.19 |
| 30 MHz | π/2 BPSK | 503000 | 2515.0 | 1 / 80 | 22.45 |
| | | 507000 | 2535.0 | 1 / 80 | 22.55 |
| | | 511000 | 2555.0 | 1 / 80 | 22.51 |
| | QPSK | 503000 | 2515.0 | 1 / 80 | 22.32 |
| | | 507000 | 2535.0 | 1 / 80 | 22.40 |
| | | 511000 | 2555.0 | 1 / 80 | 22.39 |
| | 16-QAM | 503000 | 2515.0 | 1 / 80 | 21.21 |
| | | 507000 | 2535.0 | 1 / 80 | 21.40 |
| | | 511000 | 2555.0 | 1 / 80 | 22.27 |
| 25 MHz | π/2 BPSK | 502500 | 2512.5 | 1 / 66 | 22.45 |
| | | 507000 | 2535.0 | 1 / 131 | 22.64 |
| | | 511500 | 2557.5 | 1 / 66 | 22.72 |
| | QPSK | 502500 | 2512.5 | 1 / 66 | 22.29 |
| | | 507000 | 2535.0 | 1 / 131 | 22.44 |
| | | 511500 | 2557.5 | 1 / 66 | 22.46 |
| | 16-QAM | 502500 | 2512.5 | 1 / 66 | 21.18 |
| | | 507000 | 2535.0 | 1 / 131 | 21.33 |
| | | 511500 | 2557.5 | 1 / 66 | 21.31 |
| 20 MHz | π/2 BPSK | 502000 | 2510.0 | 1 / 104 | 22.39 |
| | | 507000 | 2535.0 | 1 / 1 | 22.54 |
| | | 512000 | 2560.0 | 1 / 53 | 22.47 |
| | QPSK | 502000 | 2510.0 | 1 / 104 | 22.34 |
| | | 507000 | 2535.0 | 1 / 1 | 22.39 |
| | | 512000 | 2560.0 | 1 / 53 | 22.30 |
| | 16-QAM | 502000 | 2510.0 | 1 / 104 | 21.23 |
| | | 507000 | 2535.0 | 1 / 1 | 21.28 |
| | | 512000 | 2560.0 | 1 / 53 | 21.36 |
| 15 MHz | π/2 BPSK | 501500 | 2507.5 | 1 / 77 | 22.38 |
| | | 507000 | 2535.0 | 1 / 39 | 22.50 |
| | | 512500 | 2562.5 | 1 / 77 | 22.41 |
| | QPSK | 501500 | 2507.5 | 1 / 77 | 22.31 |
| | | 507000 | 2535.0 | 1 / 39 | 22.37 |
| | | 512500 | 2562.5 | 1 / 77 | 22.31 |
| | 16-QAM | 501500 | 2507.5 | 1 / 77 | 21.08 |
| | | 507000 | 2535.0 | 1 / 39 | 20.94 |
| | | 512500 | 2562.5 | 1 / 77 | 21.32 |
| 10 MHz | π/2 BPSK | 501000 | 2505.0 | 1 / 1 | 22.44 |
| | | 507000 | 2535.0 | 1 / 1 | 22.55 |
| | | 513000 | 2565.0 | 1 / 26 | 22.43 |
| | QPSK | 501000 | 2505.0 | 1 / 1 | 22.32 |
| | | 507000 | 2535.0 | 1 / 1 | 22.47 |
| | | 513000 | 2565.0 | 1 / 26 | 22.35 |
| | 16-QAM | 501000 | 2505.0 | 1 / 1 | 21.21 |
| | | 507000 | 2535.0 | 1 / 1 | 21.73 |
| | | 513000 | 2565.0 | 1 / 26 | 21.43 |
| 5 MHz | π/2 BPSK | 500500 | 2502.5 | 1 / 23 | 22.45 |
| | | 507000 | 2535.0 | 1 / 12 | 22.62 |
| | | 513500 | 2567.5 | 1 / 1 | 22.61 |
| | QPSK | 500500 | 2502.5 | 1 / 23 | 22.40 |
| | | 507000 | 2535.0 | 1 / 12 | 22.58 |
| | | 513500 | 2567.5 | 1 / 1 | 22.52 |
| | 16-QAM | 500500 | 2502.5 | 1 / 23 | 21.36 |
| | | 507000 | 2535.0 | 1 / 12 | 21.37 |
| | | 513500 | 2567.5 | 1 / 1 | 21.29 |

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| FCC ID: A3LSMS928U |  element | HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
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**Table 6-54
NR Band 7 Conducted Powers – Ant F**


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 40 MHz | π/2 BPSK | 504000 | 2520.0 | 1 / 108 | 22.54 |
| | | 507000 | 2535.0 | 1 / 108 | 22.48 |
| | | 510000 | 2550.0 | 1 / 108 | 22.38 |
| | QPSK | 504000 | 2520.0 | 1 / 108 | 22.57 |
| | | 507000 | 2535.0 | 1 / 108 | 22.53 |
| | | 510000 | 2550.0 | 1 / 108 | 22.54 |
| | 16-QAM | 504000 | 2520.0 | 1 / 108 | 21.65 |
| | | 507000 | 2535.0 | 1 / 108 | 21.26 |
| | | 510000 | 2550.0 | 1 / 108 | 21.45 |
| 30 MHz | π/2 BPSK | 503000 | 2515.0 | 1 / 80 | 22.49 |
| | | 507000 | 2535.0 | 1 / 1 | 22.44 |
| | | 511000 | 2555.0 | 1 / 80 | 22.35 |
| | QPSK | 503000 | 2515.0 | 1 / 80 | 22.39 |
| | | 507000 | 2535.0 | 1 / 1 | 22.41 |
| | | 511000 | 2555.0 | 1 / 80 | 22.32 |
| | 16-QAM | 503000 | 2515.0 | 1 / 80 | 21.50 |
| | | 507000 | 2535.0 | 1 / 1 | 21.40 |
| | | 511000 | 2555.0 | 1 / 80 | 21.45 |
| 25 MHz | π/2 BPSK | 502500 | 2512.5 | 1 / 66 | 22.49 |
| | | 507000 | 2535.0 | 1 / 66 | 22.57 |
| | | 511500 | 2557.5 | 1 / 66 | 22.31 |
| | QPSK | 502500 | 2512.5 | 1 / 66 | 22.35 |
| | | 507000 | 2535.0 | 1 / 66 | 22.34 |
| | | 511500 | 2557.5 | 1 / 66 | 22.25 |
| | 16-QAM | 502500 | 2512.5 | 1 / 66 | 21.33 |
| | | 507000 | 2535.0 | 1 / 66 | 21.44 |
| | | 511500 | 2557.5 | 1 / 66 | 21.03 |
| 20 MHz | π/2 BPSK | 502000 | 2510.0 | 1 / 53 | 22.40 |
| | | 507000 | 2535.0 | 1 / 1 | 22.43 |
| | | 512000 | 2560.0 | 1 / 104 | 22.24 |
| | QPSK | 502000 | 2510.0 | 1 / 53 | 22.11 |
| | | 507000 | 2535.0 | 1 / 1 | 22.27 |
| | | 512000 | 2560.0 | 1 / 104 | 22.14 |
| | 16-QAM | 502000 | 2510.0 | 1 / 53 | 21.37 |
| | | 507000 | 2535.0 | 1 / 1 | 21.48 |
| | | 512000 | 2560.0 | 1 / 104 | 21.18 |
| 15 MHz | π/2 BPSK | 501500 | 2507.5 | 1 / 1 | 22.51 |
| | | 507000 | 2535.0 | 1 / 77 | 22.47 |
| | | 512500 | 2562.5 | 1 / 77 | 22.25 |
| | QPSK | 501500 | 2507.5 | 1 / 1 | 22.26 |
| | | 507000 | 2535.0 | 1 / 77 | 22.36 |
| | | 512500 | 2562.5 | 1 / 77 | 21.98 |
| | 16-QAM | 501500 | 2507.5 | 1 / 1 | 21.04 |
| | | 507000 | 2535.0 | 1 / 77 | 21.27 |
| | | 512500 | 2562.5 | 1 / 77 | 21.21 |
| 10 MHz | π/2 BPSK | 501000 | 2505.0 | 1 / 1 | 22.39 |
| | | 507000 | 2535.0 | 1 / 26 | 22.49 |
| | | 513000 | 2565.0 | 1 / 1 | 22.25 |
| | QPSK | 501000 | 2505.0 | 1 / 50 | 22.14 |
| | | 507000 | 2535.0 | 1 / 26 | 22.43 |
| | | 513000 | 2565.0 | 1 / 1 | 22.16 |
| | 16-QAM | 501000 | 2505.0 | 1 / 50 | 21.32 |
| | | 507000 | 2535.0 | 1 / 26 | 21.20 |
| | | 513000 | 2565.0 | 1 / 1 | 21.08 |
| 5 MHz | π/2 BPSK | 500500 | 2502.5 | 1 / 1 | 22.39 |
| | | 507000 | 2535.0 | 1 / 23 | 22.44 |
| | | 513500 | 2567.5 | 1 / 12 | 22.40 |
| | QPSK | 500500 | 2502.5 | 1 / 1 | 22.18 |
| | | 507000 | 2535.0 | 1 / 23 | 22.39 |
| | | 513500 | 2567.5 | 1 / 12 | 22.33 |
| | 16-QAM | 500500 | 2502.5 | 1 / 1 | 21.39 |
| | | 507000 | 2535.0 | 1 / 23 | 21.57 |
| | | 513500 | 2567.5 | 1 / 12 | 20.95 |

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| FCC ID: A3LSMS928U |  HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
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**Table 6-55
NR Band 41/38 Power Class 2 Conducted Powers – Ant 1**


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 100 MHz | π/2 BPSK | 509202 | 2546.01 | 1 / 271 | 25.46 |
| | | 518598 | 2592.99 | 1 / 271 | 25.99 |
| | | 528000 | 2640.00 | 1 / 271 | 25.85 |
| | QPSK | 509202 | 2546.01 | 1 / 271 | 25.67 |
| | | 518598 | 2592.99 | 1 / 271 | 25.99 |
| | | 528000 | 2640.00 | 1 / 271 | 25.87 |
| | 16-QAM | 509202 | 2546.01 | 1 / 271 | 24.62 |
| | | 518598 | 2592.99 | 1 / 271 | 24.98 |
| | | 528000 | 2640.00 | 1 / 271 | 24.67 |
| 90 MHz | π/2 BPSK | 508200 | 2541.00 | 1 / 122 | 25.81 |
| | | 518598 | 2592.99 | 1 / 243 | 25.99 |
| | | 528996 | 2644.98 | 1 / 122 | 26.04 |
| | QPSK | 508200 | 2541.00 | 1 / 122 | 25.72 |
| | | 518598 | 2592.99 | 1 / 243 | 25.98 |
| | | 528996 | 2644.98 | 1 / 122 | 26.00 |
| | 16-QAM | 508200 | 2541.00 | 1 / 122 | 24.65 |
| | | 518598 | 2592.99 | 1 / 243 | 24.97 |
| | | 528996 | 2644.98 | 1 / 122 | 24.93 |
| 80 MHz | π/2 BPSK | 507204 | 2536.02 | 1 / 215 | 25.70 |
| | | 518598 | 2592.99 | 1 / 215 | 26.01 |
| | | 529998 | 2649.99 | 1 / 108 | 25.82 |
| | QPSK | 507204 | 2536.02 | 1 / 215 | 25.75 |
| | | 518598 | 2592.99 | 1 / 215 | 25.95 |
| | | 529998 | 2649.99 | 1 / 108 | 25.89 |
| | 16-QAM | 507204 | 2536.02 | 1 / 215 | 24.76 |
| | | 518598 | 2592.99 | 1 / 215 | 25.02 |
| | | 529998 | 2649.99 | 1 / 108 | 24.77 |
| 70 MHz | π/2 BPSK | 506202 | 2531.01 | 1 / 187 | 25.84 |
| | | 518598 | 2592.99 | 1 / 187 | 26.01 |
| | | 531000 | 2655.00 | 1 / 187 | 25.73 |
| | QPSK | 506202 | 2531.01 | 1 / 187 | 25.79 |
| | | 518598 | 2592.99 | 1 / 187 | 25.91 |
| | | 531000 | 2655.00 | 1 / 187 | 25.76 |
| | 16-QAM | 506202 | 2531.01 | 1 / 187 | 24.80 |
| | | 518598 | 2592.99 | 1 / 187 | 24.96 |
| | | 531000 | 2655.00 | 1 / 187 | 24.80 |
| 60 MHz | π/2 BPSK | 505200 | 2526.00 | 1 / 160 | 25.62 |
| | | 518598 | 2592.99 | 1 / 160 | 25.88 |
| | | 531996 | 2659.98 | 1 / 1 | 25.75 |
| | QPSK | 505200 | 2526.00 | 1 / 160 | 25.63 |
| | | 518598 | 2592.99 | 1 / 160 | 25.87 |
| | | 531996 | 2659.98 | 1 / 1 | 25.71 |
| | 16-QAM | 505200 | 2526.00 | 1 / 160 | 24.63 |
| | | 518598 | 2592.99 | 1 / 160 | 24.94 |
| | | 531996 | 2659.98 | 1 / 1 | 24.79 |
| 50 MHz | π/2 BPSK | 504204 | 2521.02 | 1 / 66 | 25.67 |
| | | 518598 | 2592.99 | 1 / 131 | 26.07 |
| | | 532998 | 2664.99 | 1 / 1 | 25.98 |
| | QPSK | 504204 | 2521.02 | 1 / 66 | 25.62 |
| | | 518598 | 2592.99 | 1 / 131 | 26.05 |
| | | 532998 | 2664.99 | 1 / 1 | 25.96 |
| | 16-QAM | 504204 | 2521.02 | 1 / 66 | 24.62 |
| | | 518598 | 2592.99 | 1 / 131 | 25.04 |
| | | 532998 | 2664.99 | 1 / 1 | 25.02 |
| 40 MHz | π/2 BPSK | 503202 | 2516.01 | 1 / 104 | 25.55 |
| | | 518598 | 2592.99 | 1 / 53 | 25.85 |
| | | 534000 | 2670.00 | 1 / 1 | 25.65 |
| | QPSK | 503202 | 2516.01 | 1 / 104 | 25.55 |
| | | 518598 | 2592.99 | 1 / 53 | 25.84 |
| | | 534000 | 2670.00 | 1 / 1 | 25.67 |
| | 16-QAM | 503202 | 2516.01 | 1 / 104 | 24.51 |
| | | 518598 | 2592.99 | 1 / 53 | 24.81 |
| | | 534000 | 2670.00 | 1 / 1 | 24.73 |
| 30 MHz | π/2 BPSK | 502200 | 2511.00 | 1 / 76 | 25.68 |
| | | 518598 | 2592.99 | 1 / 76 | 25.94 |
| | | 534996 | 2674.98 | 1 / 1 | 25.91 |
| | QPSK | 502200 | 2511.00 | 1 / 76 | 25.68 |
| | | 518598 | 2592.99 | 1 / 76 | 25.94 |
| | | 534996 | 2674.98 | 1 / 1 | 25.95 |
| | 16-QAM | 502200 | 2511.00 | 1 / 76 | 24.71 |
| | | 518598 | 2592.99 | 1 / 76 | 24.98 |
| | | 534996 | 2674.98 | 1 / 1 | 24.99 |
| 20 MHz | π/2 BPSK | 501204 | 2506.02 | 1 / 49 | 25.30 |
| | | 518598 | 2592.99 | 1 / 25 | 25.78 |
| | | 535998 | 2679.99 | 1 / 1 | 25.61 |
| | QPSK | 501204 | 2506.02 | 1 / 49 | 25.26 |
| | | 518598 | 2592.99 | 1 / 25 | 25.76 |
| | | 535998 | 2679.99 | 1 / 1 | 25.67 |
| | 16-QAM | 501204 | 2506.02 | 1 / 49 | 24.35 |
| | | 518598 | 2592.99 | 1 / 25 | 24.81 |
| | | 535998 | 2679.99 | 1 / 1 | 24.68 |

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| FCC ID: A3LSMS928U |  element | HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
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Table 6-56
NR Band 41_switching Power Class 2 Conducted Powers – Ant B

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 100 MHz | π/2 BPSK | 509202 | 2546.01 | 1 / 271 | 25.62 |
| | | 518598 | 2592.99 | 1 / 271 | 26.06 |
| | | 528000 | 2640.00 | 1 / 271 | 26.08 |
| | QPSK | 509202 | 2546.01 | 1 / 271 | 25.61 |
| | | 518598 | 2592.99 | 1 / 271 | 26.08 |
| | | 528000 | 2640.00 | 1 / 271 | 26.07 |
| | 16-QAM | 509202 | 2546.01 | 1 / 271 | 24.61 |
| | | 518598 | 2592.99 | 1 / 271 | 25.05 |
| | | 528000 | 2640.00 | 1 / 271 | 25.15 |
| 90 MHz | π/2 BPSK | 508200 | 2541.00 | 1 / 122 | 25.67 |
| | | 518598 | 2592.99 | 1 / 243 | 25.95 |
| | | 528996 | 2644.98 | 1 / 122 | 26.11 |
| | QPSK | 508200 | 2541.00 | 1 / 122 | 25.60 |
| | | 518598 | 2592.99 | 1 / 243 | 25.98 |
| | | 528996 | 2644.98 | 1 / 122 | 26.04 |
| | 16-QAM | 508200 | 2541.00 | 1 / 122 | 24.54 |
| | | 518598 | 2592.99 | 1 / 243 | 25.03 |
| | | 528996 | 2644.98 | 1 / 122 | 24.99 |
| 80 MHz | π/2 BPSK | 507204 | 2536.02 | 1 / 215 | 25.54 |
| | | 518598 | 2592.99 | 1 / 215 | 25.94 |
| | | 529998 | 2649.99 | 1 / 1 | 25.80 |
| | QPSK | 507204 | 2536.02 | 1 / 215 | 25.51 |
| | | 518598 | 2592.99 | 1 / 215 | 25.91 |
| | | 529998 | 2649.99 | 1 / 1 | 25.87 |
| | 16-QAM | 507204 | 2536.02 | 1 / 215 | 24.52 |
| | | 518598 | 2592.99 | 1 / 215 | 24.87 |
| | | 529998 | 2649.99 | 1 / 1 | 24.76 |
| 70 MHz | π/2 BPSK | 506202 | 2531.01 | 1 / 187 | 25.62 |
| | | 518598 | 2592.99 | 1 / 187 | 25.93 |
| | | 531000 | 2655.00 | 1 / 1 | 25.71 |
| | QPSK | 506202 | 2531.01 | 1 / 187 | 25.58 |
| | | 518598 | 2592.99 | 1 / 187 | 25.93 |
| | | 531000 | 2655.00 | 1 / 1 | 25.75 |
| | 16-QAM | 506202 | 2531.01 | 1 / 187 | 24.57 |
| | | 518598 | 2592.99 | 1 / 187 | 25.00 |
| | | 531000 | 2655.00 | 1 / 1 | 24.76 |
| 60 MHz | π/2 BPSK | 505200 | 2526.00 | 1 / 160 | 25.43 |
| | | 518598 | 2592.99 | 1 / 160 | 25.83 |
| | | 531996 | 2659.98 | 1 / 1 | 25.74 |
| | QPSK | 505200 | 2526.00 | 1 / 160 | 25.42 |
| | | 518598 | 2592.99 | 1 / 160 | 25.82 |
| | | 531996 | 2659.98 | 1 / 1 | 25.77 |
| | 16-QAM | 505200 | 2526.00 | 1 / 160 | 24.48 |
| | | 518598 | 2592.99 | 1 / 160 | 24.90 |
| | | 531996 | 2659.98 | 1 / 1 | 24.77 |
| 50 MHz | π/2 BPSK | 504204 | 2521.02 | 1 / 131 | 25.76 |
| | | 518598 | 2592.99 | 1 / 131 | 26.08 |
| | | 532998 | 2664.99 | 1 / 1 | 26.04 |
| | QPSK | 504204 | 2521.02 | 1 / 131 | 25.75 |
| | | 518598 | 2592.99 | 1 / 131 | 26.05 |
| | | 532998 | 2664.99 | 1 / 1 | 26.09 |
| | 16-QAM | 504204 | 2521.02 | 1 / 131 | 24.75 |
| | | 518598 | 2592.99 | 1 / 131 | 25.12 |
| | | 532998 | 2664.99 | 1 / 1 | 25.10 |
| 40 MHz | π/2 BPSK | 503202 | 2516.01 | 1 / 104 | 25.47 |
| | | 518598 | 2592.99 | 1 / 104 | 25.82 |
| | | 534000 | 2670.00 | 1 / 53 | 25.82 |
| | QPSK | 503202 | 2516.01 | 1 / 104 | 25.45 |
| | | 518598 | 2592.99 | 1 / 104 | 25.80 |
| | | 534000 | 2670.00 | 1 / 53 | 25.78 |
| | 16-QAM | 503202 | 2516.01 | 1 / 104 | 24.43 |
| | | 518598 | 2592.99 | 1 / 104 | 24.91 |
| | | 534000 | 2670.00 | 1 / 53 | 24.81 |
| 30 MHz | π/2 BPSK | 502200 | 2511.00 | 1 / 76 | 25.58 |
| | | 518598 | 2592.99 | 1 / 76 | 25.91 |
| | | 534996 | 2674.98 | 1 / 1 | 25.95 |
| | QPSK | 502200 | 2511.00 | 1 / 76 | 25.55 |
| | | 518598 | 2592.99 | 1 / 76 | 25.90 |
| | | 534996 | 2674.98 | 1 / 1 | 25.93 |
| | 16-QAM | 502200 | 2511.00 | 1 / 76 | 24.55 |
| | | 518598 | 2592.99 | 1 / 76 | 24.94 |
| | | 534996 | 2674.98 | 1 / 1 | 24.99 |
| 20 MHz | π/2 BPSK | 501204 | 2506.02 | 1 / 49 | 25.26 |
| | | 518598 | 2592.99 | 1 / 49 | 25.78 |
| | | 535998 | 2679.99 | 1 / 25 | 25.70 |
| | QPSK | 501204 | 2506.02 | 1 / 49 | 25.22 |
| | | 518598 | 2592.99 | 1 / 49 | 25.74 |
| | | 535998 | 2679.99 | 1 / 25 | 25.66 |
| | 16-QAM | 501204 | 2506.02 | 1 / 49 | 24.28 |
| | | 518598 | 2592.99 | 1 / 49 | 24.86 |
| | | 535998 | 2679.99 | 1 / 25 | 24.68 |


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| FCC ID: A3LSMS928U |  HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
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**Table 6-57
NR Band 48 Power Class 3 Conducted Powers – Ant 1**


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 40 MHz | 11/2 BPSK | 638000 | 3570.0 | 1 / 1 | 22.87 |
| | | 641666 | 3625.0 | 1 / 1 | 22.91 |
| | | 645332 | 3680.0 | 1 / 1 | 22.78 |
| | QPSK | 638000 | 3570.0 | 1 / 1 | 22.82 |
| | | 641666 | 3625.0 | 1 / 1 | 22.97 |
| | | 645332 | 3680.0 | 1 / 1 | 22.71 |
| | 16-QAM | 638000 | 3570.0 | 1 / 1 | 21.59 |
| | | 641666 | 3625.0 | 1 / 1 | 22.05 |
| | | 645332 | 3680.0 | 1 / 1 | 21.83 |
| 30 MHz | 11/2 BPSK | 637666 | 3565.0 | 1 / 1 | 23.04 |
| | | 641666 | 3625.0 | 1 / 1 | 22.98 |
| | | 645666 | 3685.0 | 1 / 1 | 22.86 |
| | QPSK | 637666 | 3565.0 | 1 / 1 | 22.99 |
| | | 641666 | 3625.0 | 1 / 1 | 22.95 |
| | | 645666 | 3685.0 | 1 / 1 | 22.84 |
| | 16-QAM | 637666 | 3565.0 | 1 / 1 | 22.06 |
| | | 641666 | 3625.0 | 1 / 1 | 22.05 |
| | | 645666 | 3685.0 | 1 / 1 | 21.97 |
| 20 MHz | 11/2 BPSK | 637334 | 3560.0 | 1 / 1 | 22.75 |
| | | 641666 | 3625.0 | 1 / 1 | 22.83 |
| | | 646000 | 3690.0 | 1 / 1 | 22.51 |
| | QPSK | 637334 | 3560.0 | 1 / 1 | 22.74 |
| | | 641666 | 3625.0 | 1 / 1 | 22.79 |
| | | 646000 | 3690.0 | 1 / 1 | 22.53 |
| | 16-QAM | 637334 | 3560.0 | 1 / 1 | 21.83 |
| | | 641666 | 3625.0 | 1 / 1 | 21.93 |
| | | 646000 | 3690.0 | 1 / 1 | 21.55 |
| 15 MHz | 11/2 BPSK | 637166 | 3557.5 | 1 / 1 | 22.79 |
| | | 641666 | 3625.0 | 1 / 36 | 22.86 |
| | | 646166 | 3692.5 | 1 / 36 | 22.63 |
| | QPSK | 637166 | 3557.5 | 1 / 1 | 22.75 |
| | | 641666 | 3625.0 | 1 / 36 | 22.82 |
| | | 646166 | 3692.5 | 1 / 36 | 22.56 |
| | 16-QAM | 637166 | 3557.5 | 1 / 1 | 21.85 |
| | | 641666 | 3625.0 | 1 / 36 | 21.72 |
| | | 646166 | 3692.5 | 1 / 36 | 21.61 |
| 10 MHz | 11/2 BPSK | 637000 | 3555.0 | 1 / 1 | 22.74 |
| | | 641666 | 3625.0 | 1 / 22 | 22.93 |
| | | 646332 | 3695.0 | 1 / 22 | 22.67 |
| | QPSK | 637000 | 3555.0 | 1 / 1 | 22.71 |
| | | 641666 | 3625.0 | 1 / 22 | 22.89 |
| | | 646332 | 3695.0 | 1 / 22 | 22.63 |
| | 16-QAM | 637000 | 3555.0 | 1 / 1 | 21.47 |
| | | 641666 | 3625.0 | 1 / 22 | 21.76 |
| | | 646332 | 3695.0 | 1 / 22 | 21.50 |

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Table 6-58
NR Band 77 (C-Band) Power Class 2 Conducted Powers (100MHz through 50MHz) – Ant 1


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 100 MHz | π/2 BPSK | 650000 | 3750.00 | 1 / 1 | 25.57 |
| | | 656000 | 3840.00 | 1 / 271 | 25.70 |
| | | 662000 | 3930.00 | 1 / 271 | 25.72 |
| | QPSK | 650000 | 3750.00 | 1 / 1 | 25.58 |
| | | 656000 | 3840.00 | 1 / 271 | 25.76 |
| | | 662000 | 3930.00 | 1 / 271 | 25.84 |
| | 16-QAM | 650000 | 3750.00 | 1 / 1 | 24.67 |
| | | 656000 | 3840.00 | 1 / 271 | 24.77 |
| | | 662000 | 3930.00 | 1 / 271 | 24.84 |
| 90 MHz | π/2 BPSK | 649668 | 3745.02 | 1 / 243 | 25.50 |
| | | 656000 | 3840.00 | 1 / 243 | 25.66 |
| | | 662332 | 3934.98 | 1 / 122 | 25.71 |
| | QPSK | 649668 | 3745.02 | 1 / 243 | 25.48 |
| | | 656000 | 3840.00 | 1 / 243 | 25.63 |
| | | 662332 | 3934.98 | 1 / 122 | 25.78 |
| | 16-QAM | 649668 | 3745.02 | 1 / 243 | 24.47 |
| | | 656000 | 3840.00 | 1 / 243 | 24.73 |
| | | 662332 | 3934.98 | 1 / 122 | 24.79 |
| 80 MHz | π/2 BPSK | 649334 | 3740.01 | 1 / 1 | 25.40 |
| | | 656000 | 3840.00 | 1 / 215 | 25.56 |
| | | 662666 | 3939.99 | 1 / 215 | 25.66 |
| | QPSK | 649334 | 3740.01 | 1 / 1 | 25.45 |
| | | 656000 | 3840.00 | 1 / 215 | 25.52 |
| | | 662666 | 3939.99 | 1 / 215 | 25.68 |
| | 16-QAM | 649334 | 3740.01 | 1 / 1 | 24.47 |
| | | 656000 | 3840.00 | 1 / 215 | 24.63 |
| | | 662666 | 3939.99 | 1 / 215 | 24.72 |
| 70 MHz | π/2 BPSK | 649000 | 3735.00 | 1 / 187 | 25.32 |
| | | 656000 | 3840.00 | 1 / 1 | 25.31 |
| | | 663000 | 3945.00 | 1 / 1 | 25.81 |
| | QPSK | 649000 | 3735.00 | 1 / 187 | 25.34 |
| | | 656000 | 3840.00 | 1 / 1 | 25.39 |
| | | 663000 | 3945.00 | 1 / 187 | 25.75 |
| | 16-QAM | 649000 | 3735.00 | 1 / 187 | 24.27 |
| | | 656000 | 3840.00 | 1 / 1 | 24.39 |
| | | 663000 | 3945.00 | 1 / 1 | 24.84 |
| 60 MHz | π/2 BPSK | 648668 | 3730.02 | 1 / 1 | 25.28 |
| | | 656000 | 3840.00 | 1 / 160 | 25.46 |
| | | 663332 | 3949.98 | 1 / 81 | 25.67 |
| | QPSK | 648668 | 3730.02 | 1 / 1 | 25.25 |
| | | 656000 | 3840.00 | 1 / 160 | 25.46 |
| | | 663332 | 3949.98 | 1 / 81 | 25.64 |
| | 16-QAM | 648668 | 3730.02 | 1 / 1 | 24.31 |
| | | 656000 | 3840.00 | 1 / 160 | 24.46 |
| | | 663332 | 3949.98 | 1 / 81 | 24.63 |
| 50 MHz | π/2 BPSK | 648334 | 3725.01 | 1 / 131 | 25.40 |
| | | 656000 | 3840.00 | 1 / 131 | 25.36 |
| | | 663666 | 3954.99 | 1 / 66 | 25.99 |
| | QPSK | 648334 | 3725.01 | 1 / 131 | 25.36 |
| | | 656000 | 3840.00 | 1 / 131 | 25.33 |
| | | 663666 | 3954.99 | 1 / 66 | 25.93 |
| | 16-QAM | 648334 | 3725.01 | 1 / 131 | 24.44 |
| | | 656000 | 3840.00 | 1 / 131 | 24.51 |
| | | 663666 | 3954.99 | 1 / 66 | 24.95 |

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Table 6-59
NR Band 77 (C-Band) Power Class 2 Conducted Powers (40MHz through 10MHz) – Ant 1


| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 40 MHz | π/2 BPSK | 648000 | 3720.00 | 1 / 1 | 25.35 |
| | | 656000 | 3840.00 | 1 / 1 | 25.22 |
| | | 664000 | 3960.00 | 1 / 104 | 25.71 |
| | QPSK | 648000 | 3720.00 | 1 / 1 | 25.30 |
| | | 656000 | 3840.00 | 1 / 1 | 25.20 |
| | | 664000 | 3960.00 | 1 / 104 | 25.67 |
| | 16-QAM | 648000 | 3720.00 | 1 / 1 | 24.37 |
| | | 656000 | 3840.00 | 1 / 1 | 24.27 |
| | | 664000 | 3960.00 | 1 / 104 | 24.66 |
| 30 MHz | π/2 BPSK | 647668 | 3715.02 | 1 / 76 | 25.19 |
| | | 656000 | 3840.00 | 1 / 1 | 25.08 |
| | | 664332 | 3964.98 | 1 / 1 | 25.91 |
| | QPSK | 647668 | 3715.02 | 1 / 76 | 25.28 |
| | | 656000 | 3840.00 | 1 / 1 | 25.08 |
| | | 664332 | 3964.98 | 1 / 1 | 25.85 |
| | 16-QAM | 647668 | 3715.02 | 1 / 76 | 24.18 |
| | | 656000 | 3840.00 | 1 / 1 | 24.05 |
| | | 664332 | 3964.98 | 1 / 1 | 24.89 |
| 25 MHz | π/2 BPSK | 647500 | 3712.50 | 1 / 32 | 25.38 |
| | | 656000 | 3840.00 | 1 / 63 | 25.14 |
| | | 664500 | 3967.50 | 1 / 32 | 25.85 |
| | QPSK | 647500 | 3712.50 | 1 / 32 | 25.33 |
| | | 656000 | 3840.00 | 1 / 63 | 25.13 |
| | | 664500 | 3967.50 | 1 / 32 | 25.81 |
| | 16-QAM | 647500 | 3712.50 | 1 / 32 | 24.29 |
| | | 656000 | 3840.00 | 1 / 63 | 24.08 |
| | | 664500 | 3967.50 | 1 / 32 | 24.64 |
| 20 MHz | π/2 BPSK | 647334 | 3710.01 | 1 / 1 | 25.16 |
| | | 656000 | 3840.00 | 1 / 1 | 24.94 |
| | | 664666 | 3969.99 | 1 / 25 | 25.72 |
| | QPSK | 647334 | 3710.01 | 1 / 1 | 25.12 |
| | | 656000 | 3840.00 | 1 / 1 | 24.98 |
| | | 664666 | 3969.99 | 1 / 25 | 25.67 |
| | 16-QAM | 647334 | 3710.01 | 1 / 1 | 24.18 |
| | | 656000 | 3840.00 | 1 / 1 | 23.96 |
| | | 664666 | 3969.99 | 1 / 25 | 24.77 |
| 15 MHz | π/2 BPSK | 647168 | 3707.52 | 1 / 36 | 25.18 |
| | | 656000 | 3840.00 | 1 / 36 | 24.86 |
| | | 664832 | 3972.48 | 1 / 1 | 25.75 |
| | QPSK | 647168 | 3707.52 | 1 / 36 | 25.14 |
| | | 656000 | 3840.00 | 1 / 36 | 25.01 |
| | | 664832 | 3972.48 | 1 / 1 | 25.74 |
| | 16-QAM | 647168 | 3707.52 | 1 / 36 | 24.20 |
| | | 656000 | 3840.00 | 1 / 36 | 24.11 |
| | | 664832 | 3972.48 | 1 / 1 | 24.75 |
| 10 MHz | π/2 BPSK | 647000 | 3705.00 | 1 / 22 | 25.17 |
| | | 656000 | 3840.00 | 1 / 12 | 24.90 |
| | | 664332 | 3975.00 | 1 / 22 | 25.73 |
| | QPSK | 647000 | 3705.00 | 1 / 22 | 25.14 |
| | | 656000 | 3840.00 | 1 / 12 | 24.91 |
| | | 664332 | 3975.00 | 1 / 22 | 25.68 |
| | 16-QAM | 647000 | 3705.00 | 1 / 22 | 24.26 |
| | | 656000 | 3840.00 | 1 / 12 | 24.07 |
| | | 664332 | 3975.00 | 1 / 22 | 24.78 |

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Table 6-60
NR Band 77 (DoD) Power Class 2 Conducted Powers (100MHz through 50MHz) – Ant 1

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|--------------|---------|-----------------|----------------|-----------------------|
| 100 MHz | $\pi/2$ BPSK | 633334 | 3500.01 | 1 / 1 | 25.91 |
| | QPSK | 633334 | 3500.01 | 1 / 1 | 25.91 |
| | 16-QAM | 633334 | 3500.01 | 1 / 1 | 25.00 |
| 90 MHz | $\pi/2$ BPSK | 633000 | 3495.00 | 1 / 1 | 25.81 |
| | | 633334 | 3500.01 | 1 / 1 | 25.82 |
| | | 633666 | 3504.99 | 1 / 1 | 25.83 |
| | QPSK | 633000 | 3495.00 | 1 / 1 | 25.77 |
| | | 633334 | 3500.01 | 1 / 1 | 25.79 |
| | | 633666 | 3504.99 | 1 / 1 | 25.81 |
| | 16-QAM | 633000 | 3495.00 | 1 / 1 | 24.82 |
| | | 633334 | 3500.01 | 1 / 1 | 24.77 |
| | | 633666 | 3504.99 | 1 / 1 | 24.81 |
| 80 MHz | $\pi/2$ BPSK | 632668 | 3490.02 | 1 / 1 | 25.81 |
| | | 633334 | 3500.01 | 1 / 1 | 25.72 |
| | | 634000 | 3510.00 | 1 / 1 | 25.73 |
| | QPSK | 632668 | 3490.02 | 1 / 1 | 25.80 |
| | | 633334 | 3500.01 | 1 / 1 | 25.65 |
| | | 634000 | 3510.00 | 1 / 1 | 25.68 |
| | 16-QAM | 632668 | 3490.02 | 1 / 1 | 24.87 |
| | | 633334 | 3500.01 | 1 / 1 | 24.81 |
| | | 634000 | 3510.00 | 1 / 1 | 24.78 |
| 70 MHz | $\pi/2$ BPSK | 632334 | 3485.01 | 1 / 1 | 25.72 |
| | | 633334 | 3500.01 | 1 / 1 | 25.68 |
| | | 634332 | 3514.98 | 1 / 1 | 25.75 |
| | QPSK | 632334 | 3485.01 | 1 / 1 | 25.72 |
| | | 633334 | 3500.01 | 1 / 1 | 25.74 |
| | | 634332 | 3514.98 | 1 / 1 | 25.72 |
| | 16-QAM | 632334 | 3485.01 | 1 / 1 | 24.77 |
| | | 633334 | 3500.01 | 1 / 1 | 24.73 |
| | | 634332 | 3514.98 | 1 / 1 | 24.69 |
| 60 MHz | $\pi/2$ BPSK | 632000 | 3480.00 | 1 / 1 | 25.68 |
| | | 633334 | 3500.01 | 1 / 1 | 25.65 |
| | | 634666 | 3519.99 | 1 / 1 | 25.51 |
| | QPSK | 632000 | 3480.00 | 1 / 1 | 25.65 |
| | | 633334 | 3500.01 | 1 / 1 | 25.64 |
| | | 634666 | 3519.99 | 1 / 1 | 25.46 |
| | 16-QAM | 632000 | 3480.00 | 1 / 1 | 24.73 |
| | | 633334 | 3500.01 | 1 / 1 | 24.70 |
| | | 634666 | 3519.99 | 1 / 1 | 24.57 |
| 50 MHz | $\pi/2$ BPSK | 631668 | 3475.02 | 1 / 1 | 25.88 |
| | | 633334 | 3500.01 | 1 / 1 | 25.79 |
| | | 635000 | 3525.00 | 1 / 1 | 25.63 |
| | QPSK | 631668 | 3475.02 | 1 / 1 | 25.80 |
| | | 633334 | 3500.01 | 1 / 1 | 25.78 |
| | | 635000 | 3525.00 | 1 / 1 | 25.51 |
| | 16-QAM | 631668 | 3475.02 | 1 / 1 | 24.84 |
| | | 633334 | 3500.01 | 1 / 1 | 24.82 |
| | | | 635000 | 3525.00 | 1 / 1 |

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Table 6-61
NR Band 77 (DoD) Power Class 2 Conducted Powers (40MHz through 10MHz) – Ant 1

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] |
|-----------|------------|---------|-----------------|----------------|-----------------------|
| 40 MHz | π/2 BPSK | 631334 | 3470.01 | 1 / 1 | 25.81 |
| | | 633334 | 3500.01 | 1 / 1 | 25.71 |
| | | 635332 | 3529.98 | 1 / 1 | 25.52 |
| | QPSK | 631334 | 3470.01 | 1 / 1 | 25.78 |
| | | 633334 | 3500.01 | 1 / 1 | 25.72 |
| | | 635332 | 3529.98 | 1 / 1 | 25.49 |
| | 16-QAM | 631334 | 3470.01 | 1 / 1 | 24.83 |
| | | 633334 | 3500.01 | 1 / 1 | 24.74 |
| | | 635332 | 3529.98 | 1 / 1 | 24.52 |
| 30 MHz | π/2 BPSK | 631000 | 3465.00 | 1 / 1 | 25.65 |
| | | 633334 | 3500.01 | 1 / 1 | 25.70 |
| | | 635666 | 3534.99 | 1 / 1 | 25.56 |
| | QPSK | 631000 | 3465.00 | 1 / 1 | 25.68 |
| | | 633334 | 3500.01 | 1 / 1 | 25.70 |
| | | 635666 | 3534.99 | 1 / 1 | 25.53 |
| | 16-QAM | 631000 | 3465.00 | 1 / 1 | 24.69 |
| | | 633334 | 3500.01 | 1 / 1 | 24.69 |
| | | 635666 | 3534.99 | 1 / 1 | 24.56 |
| 25 MHz | π/2 BPSK | 630834 | 3462.51 | 1 / 32 | 25.47 |
| | | 633334 | 3500.01 | 1 / 1 | 25.69 |
| | | 635832 | 3537.48 | 1 / 1 | 25.49 |
| | QPSK | 630834 | 3462.51 | 1 / 32 | 25.50 |
| | | 633334 | 3500.01 | 1 / 1 | 25.69 |
| | | 635832 | 3537.48 | 1 / 1 | 25.41 |
| | 16-QAM | 630834 | 3462.51 | 1 / 32 | 24.38 |
| | | 633334 | 3500.01 | 1 / 1 | 24.64 |
| | | 635832 | 3537.48 | 1 / 1 | 24.45 |
| 20 MHz | π/2 BPSK | 630668 | 3460.02 | 1 / 1 | 25.65 |
| | | 633334 | 3500.01 | 1 / 1 | 25.54 |
| | | 636000 | 3540.00 | 1 / 1 | 25.34 |
| | QPSK | 630668 | 3460.02 | 1 / 1 | 25.58 |
| | | 633334 | 3500.01 | 1 / 1 | 25.49 |
| | | 636000 | 3540.00 | 1 / 1 | 25.36 |
| | 16-QAM | 630668 | 3460.02 | 1 / 1 | 24.66 |
| | | 633334 | 3500.01 | 1 / 1 | 24.53 |
| | | 636000 | 3540.00 | 1 / 1 | 24.40 |
| 15 MHz | π/2 BPSK | 630500 | 3457.50 | 1 / 1 | 25.54 |
| | | 633334 | 3500.01 | 1 / 1 | 25.42 |
| | | 636166 | 3542.49 | 1 / 1 | 25.36 |
| | QPSK | 630500 | 3457.50 | 1 / 1 | 25.49 |
| | | 633334 | 3500.01 | 1 / 1 | 25.38 |
| | | 636166 | 3542.49 | 1 / 1 | 25.31 |
| | 16-QAM | 630500 | 3457.50 | 1 / 1 | 24.49 |
| | | 633334 | 3500.01 | 1 / 1 | 24.40 |
| | | 636166 | 3542.49 | 1 / 1 | 24.29 |
| 10 MHz | π/2 BPSK | 630334 | 3455.01 | 1 / 1 | 25.51 |
| | | 633334 | 3500.01 | 1 / 1 | 25.42 |
| | | 636332 | 3544.98 | 1 / 1 | 25.31 |
| | QPSK | 630334 | 3455.01 | 1 / 1 | 25.50 |
| | | 633334 | 3500.01 | 1 / 1 | 25.43 |
| | | 636332 | 3544.98 | 1 / 1 | 25.30 |
| | 16-QAM | 630334 | 3455.01 | 1 / 1 | 24.59 |
| | | 633334 | 3500.01 | 1 / 1 | 24.54 |
| | | 636332 | 3544.98 | 1 / 1 | 24.40 |

Table 6-62
2.4GHz 802.11b WLAN Conducted Powers

| Freq. [MHz] | Channel | Conducted Power [dBm] |
|-------------|---------|-----------------------|
| 2412 | 1 | 19.70 |
| 2437 | 6 | 19.61 |
| 2462 | 11 | 19.80 |

| | | |
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Table 6-63
2.4GHz 802.11g WLAN Conducted Powers

| Freq. [MHz] | Channel | Conducted Power [dBm] |
|-------------|---------|-----------------------|
| 2412 | 1 | 17.79 |
| 2437 | 6 | 17.66 |
| 2462 | 11 | 17.84 |

Table 6-64
2.4GHz 802.11n WLAN Conducted Powers

| Freq. [MHz] | Channel | Conducted Power [dBm] |
|-------------|---------|-----------------------|
| 2412 | 1 | 17.88 |
| 2437 | 6 | 17.73 |
| 2462 | 11 | 17.86 |

Table 6-65
2.4GHz 802.11ac WLAN Conducted Powers

| Freq. [MHz] | Channel | Conducted Power [dBm] |
|-------------|---------|-----------------------|
| 2412 | 1 | 17.40 |
| 2437 | 6 | 17.10 |
| 2462 | 11 | 17.21 |


Table 6-66
2.4GHz 802.11ax SU WLAN Conducted Powers

| Freq. [MHz] | Channel | Conducted Power [dBm] |
|-------------|---------|-----------------------|
| 2412 | 1 | 15.66 |
| 2437 | 6 | 17.95 |
| 2462 | 11 | 15.88 |

Table 6-67
5GHz 20MHz BW 802.11a WLAN Conducted Powers

| Band | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
|---------|-------------|---------|----------------------------|
| UNII-1 | 5180 | 36 | 17.77 |
| | 5200 | 40 | 17.96 |
| | 5220 | 44 | 17.82 |
| | 5240 | 48 | 17.86 |
| UNII-2A | 5260 | 52 | 17.91 |
| | 5280 | 56 | 17.98 |
| | 5300 | 60 | 17.48 |
| | 5320 | 64 | 17.92 |
| UNII-2C | 5500 | 100 | 17.96 |
| | 5600 | 120 | 17.49 |
| | 5620 | 124 | 17.99 |
| | 5720 | 144 | 17.68 |
| UNII-3 | 5745 | 149 | 17.49 |
| | 5785 | 157 | 17.45 |
| | 5825 | 165 | 17.47 |
| UNII-4 | 5845 | 169 | 17.46 |
| | 5865 | 173 | 17.51 |
| | 5885 | 177 | 17.48 |

Table 6-68

| | | | |
|----------------------------------|--|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS928U |  element | HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
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5GHz 20MHz BW 802.11n WLAN Conducted Powers

| Band | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] | Target |
|---------|-------------|---------|----------------------------|--------|
| UNII-1 | 5180 | 36 | 17.91 | 17.0 |
| | 5200 | 40 | 17.43 | 17.0 |
| | 5220 | 44 | 17.54 | 17.0 |
| | 5240 | 48 | 17.54 | 17.0 |
| UNII-2A | 5260 | 52 | 17.44 | 17.0 |
| | 5280 | 56 | 17.61 | 17.0 |
| | 5300 | 60 | 17.72 | 17.0 |
| UNII-2C | 5320 | 64 | 17.61 | 17.0 |
| | 5500 | 100 | 17.53 | 17.0 |
| | 5600 | 120 | 17.64 | 17.0 |
| | 5620 | 124 | 17.60 | 17.0 |
| UNII-3 | 5720 | 144 | 17.71 | 17.0 |
| | 5745 | 149 | 17.62 | 17.0 |
| | 5785 | 157 | 17.58 | 17.0 |
| | 5825 | 165 | 17.60 | 17.0 |
| UNII-4 | 5845 | 169 | 17.69 | 17.0 |
| | 5865 | 173 | 17.69 | 17.0 |
| | 5885 | 177 | 17.64 | 17.0 |


Table 6-69
5GHz 20MHz BW 802.11ac WLAN Conducted Powers

| Band | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] | Target |
|---------|-------------|---------|----------------------------|--------|
| UNII-1 | 5180 | 36 | 17.91 | 17.0 |
| | 5200 | 40 | 17.47 | 17.0 |
| | 5220 | 44 | 17.47 | 17.0 |
| | 5240 | 48 | 17.56 | 17.0 |
| UNII-2A | 5260 | 52 | 17.96 | 17.0 |
| | 5280 | 56 | 17.48 | 17.0 |
| | 5300 | 60 | 17.65 | 17.0 |
| UNII-2C | 5320 | 64 | 17.43 | 17.0 |
| | 5500 | 100 | 17.56 | 17.0 |
| | 5600 | 120 | 17.59 | 17.0 |
| | 5620 | 124 | 17.58 | 17.0 |
| UNII-3 | 5720 | 144 | 17.86 | 17.0 |
| | 5745 | 149 | 17.66 | 17.0 |
| | 5785 | 157 | 17.68 | 17.0 |
| | 5825 | 165 | 17.76 | 17.0 |
| UNII-4 | 5845 | 169 | 17.76 | 17.0 |
| | 5865 | 173 | 17.64 | 17.0 |
| | 5885 | 177 | 17.63 | 17.0 |

Table 6-70
5GHz 20MHz BW 802.11ax WLAN Conducted Powers

| Band | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
|---------|-------------|---------|----------------------------|
| UNII-1 | 5180 | 36 | 17.94 |
| | 5200 | 40 | 17.40 |
| | 5220 | 44 | 17.56 |
| | 5240 | 48 | 17.50 |
| UNII-2A | 5260 | 52 | 17.98 |
| | 5280 | 56 | 17.47 |
| | 5300 | 60 | 17.59 |
| UNII-2C | 5320 | 64 | 17.36 |
| | 5500 | 100 | 17.59 |
| | 5600 | 120 | 17.65 |
| | 5620 | 124 | 17.56 |
| UNII-3 | 5720 | 144 | 17.84 |
| | 5745 | 149 | 17.89 |
| | 5785 | 157 | 17.65 |
| | 5825 | 165 | 17.69 |
| UNII-4 | 5845 | 169 | 17.64 |
| | 5865 | 173 | 17.66 |
| | 5885 | 177 | 17.56 |

Table 6-71

| | | | |
|---|--|---------------------------------------|--|
| FCC ID: A3LSMS928U |  element | HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
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5GHz 40MHz BW 802.11n WLAN Conducted Powers

| Band | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
|---------|-------------|---------|----------------------------|
| UNII-1 | 5190 | 38 | 17.87 |
| | 5230 | 46 | 17.54 |
| UNII-2A | 5270 | 54 | 17.51 |
| | 5310 | 62 | 17.69 |
| UNII-2C | 5510 | 102 | 17.73 |
| | 5590 | 118 | 17.81 |
| | 5630 | 126 | 17.55 |
| | 5710 | 142 | 17.86 |
| UNII-3 | 5755 | 151 | 17.70 |
| | 5795 | 159 | 17.72 |
| UNII-4 | 5835 | 167 | 17.77 |
| | 5875 | 175 | 17.86 |

Table 6-72


5GHz 40MHz BW 802.11ac WLAN Conducted Powers

| Band | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
|---------|-------------|---------|----------------------------|
| UNII-1 | 5190 | 38 | 17.91 |
| | 5230 | 46 | 17.54 |
| UNII-2A | 5270 | 54 | 17.42 |
| | 5310 | 62 | 17.73 |
| UNII-2C | 5510 | 102 | 17.74 |
| | 5590 | 118 | 17.48 |
| | 5630 | 126 | 17.54 |
| | 5710 | 142 | 17.75 |
| UNII-3 | 5755 | 151 | 17.75 |
| | 5795 | 159 | 17.70 |
| UNII-4 | 5835 | 167 | 17.75 |
| | 5875 | 175 | 17.89 |

Table 6-73

5GHz 40MHz BW 802.11ax WLAN Conducted Powers

| Band | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
|---------|-------------|---------|----------------------------|
| UNII-1 | 5190 | 38 | 17.74 |
| | 5230 | 46 | 17.87 |
| UNII-2A | 5270 | 54 | 17.79 |
| | 5310 | 62 | 17.98 |
| UNII-2C | 5510 | 102 | 17.48 |
| | 5590 | 118 | 17.60 |
| | 5630 | 126 | 17.37 |
| | 5710 | 142 | 17.56 |
| UNII-3 | 5755 | 151 | 17.52 |
| | 5795 | 159 | 17.56 |
| UNII-4 | 5835 | 167 | 17.56 |
| | 5875 | 175 | 17.64 |

| | | | |
|----------------------------------|--|---------------------------------------|--|
| FCC ID: A3LSMS928U |  element | HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
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Table 6-74
5GHz 80MHz BW 802.11ac WLAN Conducted Powers

| Band | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
|---------|-------------|---------|----------------------------|
| UNII-1 | 5210 | 42 | 17.54 |
| UNII-2A | 5290 | 58 | 17.74 |
| UNII-2C | 5530 | 106 | 17.70 |
| | 5610 | 122 | 17.86 |
| | 5690 | 138 | 17.79 |
| UNII-3 | 5775 | 155 | 17.87 |
| UNII-4 | 5885 | 171 | 17.91 |

Table 6-75
5GHz 80MHz BW 802.11ax WLAN Conducted Powers


| Band | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
|---------|-------------|---------|----------------------------|
| UNII-1 | 5210 | 42 | 16.97 |
| UNII-2A | 5290 | 58 | 16.12 |
| UNII-2C | 5530 | 106 | 17.46 |
| | 5610 | 122 | 17.54 |
| | 5690 | 138 | 17.73 |
| UNII-3 | 5775 | 155 | 17.49 |
| UNII-4 | 5885 | 171 | 17.61 |

Table 6-76
5GHz 160MHz BW 802.11ac WLAN Conducted Powers

| Band | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
|-----------|-------------|---------|----------------------------|
| UNII-1/2A | 5250 | 50 | 17.82 |
| UNII-2C | 5570 | 114 | 17.97 |
| UNII-3/4 | 5815 | 163 | 17.52 |

Table 6-77
5GHz 160MHz BW 802.11ax WLAN Conducted Powers

| Band | Freq. [MHz] | Channel | Avg. Conducted Power [dBm] |
|-----------|-------------|---------|----------------------------|
| UNII-1/2A | 5250 | 50 | 15.63 |
| UNII-2C | 5570 | 114 | 17.64 |
| UNII-3/4 | 5815 | 163 | 17.35 |

| | | | |
|---|--|---------------------------------------|--|
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7. JUSTIFICATION OF HELD TO EAR MODES TESTED

I. Analysis of RF Air Interface Technologies

An analysis was performed, following the guidance of §4.7 of the ANSI standard, of the RF air interface technologies being evaluated. For this analysis, the stated peak power levels were verified to be within the requirements detailed in Table 3-2.

II. Individual Mode Evaluations


Table 7-1
Peak power levels of individual air interfaces evaluated for emission compliance

| Air Interface | Peak Power [dBm] | Peak Power Level Margin [dB] | Emission Compliance |
|---|------------------|------------------------------|---------------------|
| GSM - GSM850 | 33.50 | 1.50 | PASS |
| GSM - GSM1900 | 30.00 | 2.00 | PASS |
| GSM - EDGE850 | 28.00 | 7.00 | PASS |
| GSM - EDGE1900 | 27.00 | 5.00 | PASS |
| UMTS - RMC | 25.00 | 10.00 | PASS |
| UMTS - AMR | 25.00 | 10.00 | PASS |
| UMTS - HSPA | 24.00 | 11.00 | PASS |
| LTE FDD | 25.30 | 9.70 | PASS |
| LTE FDD - Uplink Carrier Aggregation | 25.30 | 6.70 | PASS |
| LTE TDD - Band 41 (PC3) | 25.00 | 6.00 | PASS |
| LTE TDD - Band 41 (PC2) | 26.70 | 4.30 | PASS |
| LTE TDD - Band 48 | 23.50 | 7.50 | PASS |
| LTE TDD - Uplink Carrier Aggregation | 26.70 | 4.30 | PASS |
| NR FDD | 25.30 | 9.70 | PASS |
| NR TDD - n41 | 27.00 | 4.00 | PASS |
| NR TDD - n77 (DoD) | 27.00 | 4.00 | PASS |
| NR TDD - n48 | 23.50 | 7.50 | PASS |
| NR TDD - n77 | 28.00 | 3.00 | PASS |
| WIFI - 2.4GHz | 20.00 | 11.00 | PASS |
| WIFI - 5GHz | 18.00 | 13.00 | PASS |
| Simultaneous 2.4GHz and 5GHz WIFI Operations* | 25.10 | 5.90 | PASS |

* Note: This value is calculated as the linear sum of the worst-case power for each band and antenna combination while in simultaneous 2.4GHz and 5GHz operation. This calculation is conservative and for use in this investigation only.

III. WD RF Peak power level conclusions

Per ANSI C63.19-2019, all applicable air interfaces demonstrate compliance to the peak power requirements shown in Table 3-2 of this report.

| | | | |
|----------------------------------|--|--------------------------------|-----------------------------------|
| FCC ID: A3LSMS928U |  element | HAC (RF EMISSIONS) TEST REPORT | Approved by: Managing Director |
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8. EQUIPMENT LIST

Table 8-1
Equipment List

| Manufacturer | Model | Description | Cal Date | Cal Interval | Cal Due | Serial Number |
|-----------------------|-----------|-------------------------------------|------------|--------------|------------|---------------|
| Agilent | E4438C | ESG Vector Signal Generator | 1/18/2023 | Annual | 1/18/2024 | MY47270002 |
| Agilent | N5182A | MXG Vector Signal Generator | 11/30/2022 | Annual | 11/30/2023 | MY47420603 |
| Keysight Technologies | N9020A | MXA Signal Analyzer | 3/15/2023 | Annual | 3/15/2024 | US46470561 |
| Amplifier Research | 15S1G6 | Amplifier | N/A | CBT* | N/A | 433978 |
| Anritsu | MA2411B | Pulse Power Sensor | 1/10/2023 | Annual | 1/10/2024 | 1315051 |
| Anritsu | MA24106A | USB Power Sensor | 2/14/2023 | Annual | 2/14/2024 | 1827529 |
| Anritsu | ML2496A | Power Meter | 4/4/2023 | Annual | 4/4/2024 | 1840005 |
| Control Company | 4040 | Digital Thermometer | 3/27/2023 | Biennial | 3/27/2025 | 230208036 |
| Mini-Circuits | NLP-1200+ | Low Pass Filter DC to 1000 MHz | N/A | CBT* | N/A | N/A |
| Mini-Circuits | NLP-2950+ | Low Pass Filter DC to 2700 MHz | N/A | CBT* | N/A | N/A |
| Mini-Circuits | BW-N20W5 | Power Attenuator | N/A | CBT* | N/A | 1226 |
| Pasternack | PE2237-20 | Bidirectional Coupler | N/A | CBT* | N/A | N/A |
| Rohde & Schwarz | CMW500 | Wideband Radio Communication Tester | 8/9/2023 | Annual | 8/9/2024 | 162125 |
| Rohde & Schwarz | CMW500 | Wideband Radio Communication Tester | | | | 167283 |
| Rohde & Schwarz | CMW500 | Radio Communication Tester | 8/10/2023 | Annual | 8/10/2024 | 140144 |
| Rohde & Schwarz | CMX500 | Radio Communication Tester | N/A | | N/A | 100298 |
| Seekonk | NC-100 | Torque Wrench (8" lb) | N/A | | N/A | 21053 |

Calibration traceable to the National Institute of Standards and Technology (NIST).

***Note: CBT (Calibrated Before Testing).** Prior to testing, the measurement paths containing a cable, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.

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9. MEASUREMENT UNCERTAINTY

Table 9-1
Uncertainty Estimation Table

| Wireless Communications Device Near-Field Measurement Uncertainty Estimation | | | | | | | |
|---|-----------|-----------|-------------|---------|--------|-----------|---------------------------------|
| Uncertainty Component | Data (dB) | Data Type | Prob. Dist. | Divisor | Ci (E) | Unc. (dB) | Notes/Comments |
| Measurement System | | | | | | | |
| RF System Reflections | 0.50 | Tolerance | N | 1.00 | 1 | 0.50 | * Refl. < -20 dB |
| Field Probe Calibration | 0.21 | Tolerance | N | 1.00 | 1 | 0.21 | |
| Field Probe Isotropy | 0.01 | Tolerance | N | 1.00 | 1 | 0.01 | |
| Field Probe Frequency Response | 0.135 | Tolerance | N | 1.00 | 1 | 0.14 | |
| Field Probe Linearity | 0.013 | Tolerance | N | 1.00 | 1 | 0.01 | |
| Modulation Interference Factor | 0.20 | Tolerance | R | 1.73 | 1 | 0.12 | Applicable for M-rating testing |
| Boundary Effects | 0.105 | Accuracy | R | 1.73 | 1 | 0.06 | * |
| Probe Positioning Accuracy | 0.20 | Accuracy | R | 1.73 | 1 | 0.12 | * |
| Probe Positioner | 0.050 | Accuracy | R | 1.73 | 1 | 0.03 | * |
| Extrapolation/Interpolation | 0.045 | Tolerance | R | 1.73 | 1 | 0.03 | * |
| Resolution to 2mm error | 0.21 | Tolerance | N | 1.00 | 1 | 0.21 | |
| System Detection Limit | 0.05 | Tolerance | R | 1.73 | 1 | 0.03 | * |
| Readout Electronics | 0.015 | Tolerance | N | 1.00 | 1 | 0.02 | * |
| Integration Time | 0.11 | Tolerance | R | 1.73 | 1 | 0.06 | * |
| Response Time | 0.033 | Tolerance | R | 1.73 | 1 | 0.02 | * |
| Phantom Thickness | 0.10 | Tolerance | R | 1.73 | 1 | 0.06 | * |
| System Repeatability (Field x 2=power) | 0.17 | Tolerance | N | 1.00 | 1 | 0.17 | * |
| Test Sample Related | | | | | | | |
| Device Positioning Vertical | 0.2 | Tolerance | R | 1.73 | 1 | 0.12 | * |
| Device Positioning Lateral | 0.045 | Tolerance | R | 1.73 | 1 | 0.03 | * |
| Device Holder and Phantom | 0.1 | Tolerance | R | 1.73 | 1 | 0.06 | * |
| Power Drift | 0.21 | Tolerance | R | 1.73 | 1 | 0.12 | |
| <i>Combined Standard Uncertainty (k=1)</i> | | | | | | 0.66 | 16.3% |
| <i>Expanded Uncertainty [95% confidence]</i> | | | | | | 1.31 | 32.6% |
| <i>Expanded Uncertainty [95% confidence] on Field</i> | | | | | | 0.66 | 16.3% |

Notes:

1. Test equipments are calibrated according to techniques outlined in NIS81, NIS3003 and NIST Tech Note 1297. All equipments have traceability according to NIST. Measurement Uncertainties are defined in further detail in NIS 81 and NIST Tech Note 1297 and UKAS M3003.
2. * Uncertainty specifications from Schmidt & Partner Engineering AG (not site specific)


Measurement uncertainty reflects the quality and accuracy of a measured result as compared to the true value. Such statements are generally required when stating results of measurements so that it is clear to the intended audience that the results may differ when reproduced by different facilities. Measurement results vary due to the measurement uncertainty of the instrumentation, measurement technique, and test engineer. Most uncertainties are calculated using the tolerances of the instrumentation used in the measurement, the measurement setup variability, and the technique used in performing the test. While not generally included, the variability of the equipment under test also figures into the overall measurement uncertainty. Another component of the overall uncertainty is based on the variability of repeated measurements (so-called Type A uncertainty). This may mean that the Hearing Aid immunity tests may have to be repeated by taking down the test setup and resetting it up so that there are a statistically significant number of repeat measurements to identify the measurement uncertainty. By combining the repeat measurement results with that of the instrumentation chain using the technique contained in NIS 81 and NIS 3003, the overall measurement uncertainty was estimated.

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10. CONCLUSION


The measurements indicate that the referenced wireless communications device complies with the HAC limits specified in accordance with the ANSI C63.19-2019 Standard and FCC WT Docket No. 01-309 RM-8658. Precise laboratory measures were taken to assure repeatability of the tests. The tested device complies with the requirements in respect to all parameters specific to the test. The test results and statements relate only to the item(s) tested.

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