

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:
1/23/2025 – 2/17/2025
Test Site/Location:
Element Washington DC LLC,
Columbia, MD, USA
Test Report Serial No.:
1M2501020001-28.A3L
Date of Issue:
2/27/2025

FCC ID: A3LSMG766U

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-G766U
Additional Model(s): SM-G766U1
Test Device Serial No.: Pre-Production Sample [S/N: 4450M]

HAC Compliance: PASS

This wireless portable device has been shown to be hearing-aid compatible as 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 Ortanez
Executive Vice President



FCC ID: A3LSMG766U		HAC (RF EMISSIONS) TEST REPORT	Approved by: Technical Manager
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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
- Volume Control, receive volume control performance
- Volume Control, receive distortion and noise performance
- Volume Control, receive acoustic frequency response performance

The hearing aid may 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.

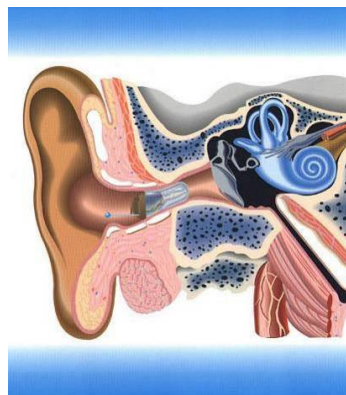


Figure 1-1 Hearing Aid *in-vitu*

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

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2. DUT DESCRIPTION

FCC ID: A3LSMG766U
Manufacturer: Samsung Electronics Co., Ltd.
129, Samsung-ro, Maetan dong,
Yeongtong-gu, Suwon-si
Gyeonggi-do 16677, Korea
Model: SM-G766U
Additional Model(s): SM-G766U1
Serial Number: 4450M
Antenna Configurations: Internal Antenna
DUT Type: Portable Handset

I. LTE/NR Band Selection

This device supports LTE/NR capabilities with overlapping transmission frequency ranges. When the supported frequency range of a band falls completely within a band with a larger transmission frequency range, both bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both 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.

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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	No ¹	Yes: WIFI or BT	Google Meet
UMTS	850	VD	No ¹	Yes: WIFI or BT	CMRS Voice
	1700				
	1900				
	HSPA	VD	No ¹	Yes: WIFI or BT	Google Meet
LTE (FDD)	680 (B71)	VD	No ¹	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)	VD	No ¹	Yes: NR, WIFI or BT	VoLTE, Google Meet
	2600 (B41)				
	3600 (B48)				
NR (FDD)	680 (n71)	VD	No ¹	Yes: LTE, WIFI or BT	VoNR, Google Meet
	700 (n14)				
	850 (n5)				
	1700 (n70)				
	1700 (n66)				
	1900 (n2)				
	1900 (n25)				
NR (TDD)	2300 (n30)	VD	No ¹	Yes: LTE, WIFI or BT	VoNR, Google Meet
	2600 (n41)				
	3500 (n77, DoD)				
	3500 (n78, DoD)				
	3600 (n48)				
WIFI	3750 (n78)	VD	No ¹	Yes: GSM, UMTS, LTE, or NR	VoWIFI, Google Meet
	3800 (n77)				
	2450				
	5200 (U-NII 1)				
	5300 (U-NII 2A)				
	5500 (U-NII 2C)				
	5800 (U-NII 3)				
	5900 (U-NII 4)				
	6175 (U-NII 5)				
	6475 (U-NII 6)				
WIFI	6700 (U-NII 7)				
	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. NR FR2 bands are currently outside the scope of ANSI C63.19 and FCC HAC regulations therefore they were not evaluated. 3. 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. 4. WIFI U-NII bands 6 through 8 were not evaluated due to 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 provides guidance on measuring the potential for wireless device (WD) RF emissions to cause audio frequency interference in a hearing aid. When the performance requirements of the Standard below are met, the WD demonstrates compliance to emission requirements for operation in close proximity with a hearing aid. 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

Description of test system for measurement of near-field RF audio interference level

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

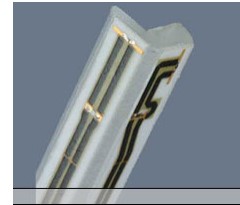
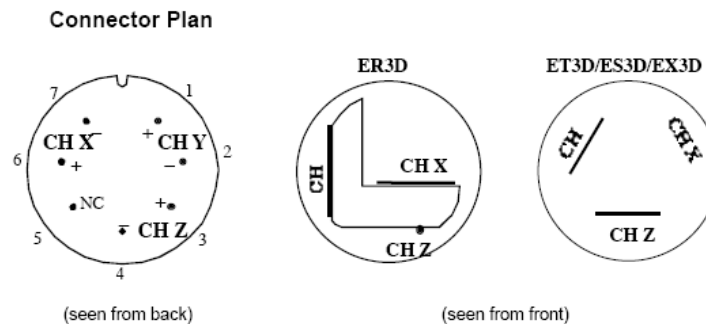


Figure 4-1
E-field Free-space
Probe

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 $\mu V/(V/m)^2$
 $ConvF$: 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

SPEAG Robotic System

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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

U_i

cf

dcp_i

= compensated signal of channel i

= input signal of channel i

= crest factor of exciting field

= diode compression point

(i = x, y, z)

(i = x, y, z)

(DASY parameter)

(DASY parameter)

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

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

with V_i = compensated signal of channel i (i = x, y, z)
 $Norm_i$ = sensor sensitivity of channel i (i = x, y, z)
 $\mu V/(V/m)^2$ 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, DASY5 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:
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 the tables below is shown in Figure 6-1. The power measurement equipment could be a base station simulator, signal analyzer, or power meter depending on the applicable air interface.

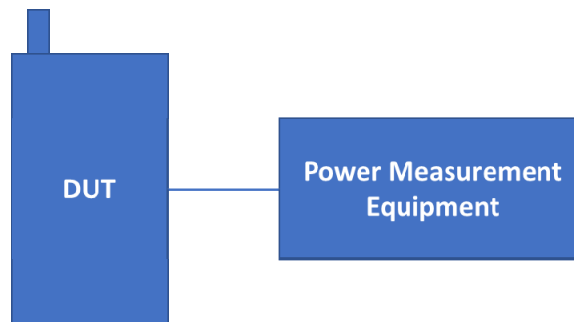


Figure 6-1
Power Measurement Setup

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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	33.0	26.5
GSM/EDGE 1900	30.0	25.3

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	23.5
UMTS IV	23.5	22.5
UMTS II	23.5	22.5

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	24.0
LTE Band 13	24.0
LTE Band 14	24.0
LTE Band 20	24.0
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	23.0
LTE Band 7	23.5

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VII. LTE TDD Target Powers

Table 6-5
LTE TDD Conducted Power Targets

Band	Modulated Average Output Power (in dBm)
LTE Band 38	23.0
LTE Band 41 PC3	23.0
LTE Band 48	21.0

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

Band	Modulated Average Output Power (in dBm)
LTE Band 48	21.0

VIII. NR FDD Target Powers

Table 6-7
NR FDD Conducted Power Targets

Band	Modulated Average Output Power (in dBm)
NR Band n71	24.0
NR Band n14	23.0
NR Band n5	24.0
NR Band n70	23.5
NR Band n66	23.5
NR Band n2	23.5
NR Band n25	23.5
NR Band n30	23.0

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IX. NR TDD Target Powers

Table 6-8
NR TDD Conducted Power Targets

Band	Modulated Average Output Power (in dBm)
NR Band n41 PC2	26.0
NR Band n48	21.0
NR Band n77 PC2	27.0

X. WIFI Target Powers

Table 6-9
IEEE 802.11a/b/g/n/ac/ax/be Reduced Average RF Power Targets

Band	Modulated Average Output Power (in dBm)
WLAN - 2.4GHz	20.0
WLAN - 5GHz	19.0
WLAN - RSDB/DBS	22.5

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XI. Conducted Power Measurements

Table 6-10
GSM Conducted Powers

Band	Channel	GSM [dBm] CS (1 Slot)	EDGE [dBm] 1 Tx Slot
GSM 850	128	33.00	26.23
	190	33.15	26.26
	251	33.08	26.24
GSM 1900	512	28.80	25.39
	661	28.69	25.34
	810	28.99	24.69

Table 6-11
UMTS Conducted Powers

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	23.92	23.88	23.70	23.84	23.76	23.54	23.95	23.80	23.65
	12.2 kbps AMR	23.93	23.91	23.71	23.24	23.26	23.02	23.38	23.35	23.41
HSUPA	Subtest 1	23.05	23.00	22.81	22.57	22.55	22.31	22.39	22.35	22.42

Table 6-12
LTE Band 71 Conducted Powers

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	QPSK	133222	673.0	1 / 50	24.04
		133297	680.5	1 / 50	24.05
		133372	688.0	1 / 99	24.21
	16-QAM	133222	673.0	1 / 50	23.09
		133297	680.5	1 / 50	23.75
		133372	688.0	1 / 50	23.16
15 MHz	QPSK	133197	670.5	1 / 37	24.02
		133297	680.5	1 / 74	24.01
		133397	690.5	1 / 74	24.14
	16-QAM	133197	670.5	1 / 74	23.15
		133297	680.5	1 / 37	23.23
		133397	690.5	1 / 37	23.34
10 MHz	QPSK	133172	668.0	1 / 25	24.14
		133297	680.5	1 / 0	24.11
		133422	693.0	1 / 25	24.32
	16-QAM	133172	668.0	1 / 49	23.45
		133297	680.5	1 / 0	23.30
		133422	693.0	1 / 0	23.54
5 MHz	QPSK	133147	665.5	1 / 12	24.24
		133297	680.5	1 / 12	24.26
		133447	695.5	1 / 12	24.40
	16-QAM	133147	665.5	1 / 0	23.43
		133297	680.5	1 / 0	23.21
		133447	695.5	1 / 12	23.44

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Table 6-13
LTE Band 12 Conducted Powers

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
10 MHz	QPSK	23060	704.0	1 / 0	24.71
		23095	707.5	1 / 25	24.70
		23130	711.0	1 / 0	24.65
	16-QAM	23060	704.0	1 / 0	23.91
		23095	707.5	1 / 49	23.85
		23130	711.0	1 / 0	23.98
5 MHz	QPSK	23035	701.5	1 / 12	24.65
		23095	707.5	1 / 24	24.74
		23155	713.5	1 / 0	24.67
	16-QAM	23035	701.5	1 / 0	23.93
		23095	707.5	1 / 24	23.81
		23155	713.5	1 / 12	23.80
3 MHz	QPSK	23025	700.5	1 / 7	24.53
		23095	707.5	1 / 7	24.55
		23165	714.5	1 / 14	24.34
	16-QAM	23025	700.5	1 / 7	24.03
		23095	707.5	1 / 14	23.73
		23165	714.5	1 / 7	23.78
1.4 MHz	QPSK	23017	699.7	1 / 3	24.60
		23095	707.5	1 / 0	24.51
		23173	715.3	1 / 0	24.44
	16-QAM	23017	699.7	1 / 5	23.81
		23095	707.5	1 / 0	23.79
		23173	715.3	1 / 5	23.71

Table 6-14
LTE Band 13 Conducted Powers

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
10 MHz	QPSK	23230	782.0	1 / 25	24.03
	16-QAM	23230	782.0	1 / 0	23.20
5 MHz	QPSK	23205	779.5	1 / 0	24.16
		23230	782.0	1 / 12	24.25
		23255	784.5	1 / 24	24.14
	16-QAM	23205	779.5	1 / 24	23.28
		23230	782.0	1 / 12	23.46
		23255	784.5	1 / 12	23.33

Table 6-15
LTE Band 14 Conducted Powers

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
10 MHz	QPSK	23330	793.0	1 / 25	23.96
	16-QAM	23330	793.0	1 / 25	23.09
5 MHz	QPSK	23305	790.5	1 / 0	24.07
		23330	793.0	1 / 0	23.92
		23355	795.5	1 / 12	24.11
	16-QAM	23305	790.5	1 / 12	23.21
		23330	793.0	1 / 24	23.15
		23355	795.5	1 / 12	23.38

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Table 6-16
LTE Band 26/5 Conducted Powers

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
15 MHz	QPSK	26765	821.5	1 / 37	24.57
	16-QAM	26765	821.5	1 / 37	23.69
10 MHz	QPSK	26740	819.0	1 / 25	24.66
	16-QAM	26740	819.0	1 / 25	24.21
5 MHz	QPSK	26715	816.5	1 / 24	24.66
		26765	821.5	1 / 0	24.76
	16-QAM	26715	816.5	1 / 24	23.94
		26765	821.5	1 / 0	23.86
3 MHz	QPSK	26705	815.5	1 / 0	24.49
		26775	822.5	1 / 7	24.74
	16-QAM	26705	815.5	1 / 0	23.66
		26775	822.5	1 / 7	23.86
1.4 MHz	QPSK	26697	814.7	1 / 3	24.59
		26783	823.3	1 / 0	24.71
	16-QAM	26697	814.7	1 / 3	23.90
		26783	823.3	1 / 3	24.10

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Table 6-17
LTE Band 66/4 Conducted Powers – Lower Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	QPSK	132072	1720.0	1 / 99	23.35
		132322	1745.0	1 / 0	23.17
		132572	1770.0	1 / 99	23.14
	16-QAM	132072	1720.0	1 / 50	22.57
		132322	1745.0	1 / 99	22.29
		132572	1770.0	1 / 50	22.29
15 MHz	QPSK	132047	1717.5	1 / 0	23.37
		132322	1745.0	1 / 37	23.19
		132597	1772.5	1 / 37	23.21
	16-QAM	132047	1717.5	1 / 74	22.55
		132322	1745.0	1 / 74	22.33
		132597	1772.5	1 / 37	22.41
10 MHz	QPSK	132022	1715.0	1 / 49	23.49
		132322	1745.0	1 / 25	23.22
		132622	1775.0	1 / 0	23.31
	16-QAM	132022	1715.0	1 / 49	22.64
		132322	1745.0	1 / 25	22.34
		132622	1775.0	1 / 0	22.55
5 MHz	QPSK	131997	1712.5	1 / 24	23.33
		132322	1745.0	1 / 12	23.22
		132647	1777.5	1 / 0	23.20
	16-QAM	131997	1712.5	1 / 12	22.52
		132322	1745.0	1 / 24	22.38
		132647	1777.5	1 / 12	22.42
3 MHz	QPSK	131987	1711.5	1 / 7	23.30
		132322	1745.0	1 / 7	23.09
		132657	1778.5	1 / 7	23.13
	16-QAM	131987	1711.5	1 / 7	22.71
		132322	1745.0	1 / 7	22.44
		132657	1778.5	1 / 7	22.27
1.4 MHz	QPSK	131979	1710.7	1 / 0	23.30
		132322	1745.0	1 / 3	23.25
		132665	1779.3	1 / 0	23.09
	16-QAM	131979	1710.7	1 / 5	22.64
		132322	1745.0	1 / 3	22.46
		132665	1779.3	1 / 3	22.30

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Table 6-18
LTE Band 66/4 Conducted Powers – Upper Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	QPSK	132072	1720.0	1 / 50	23.36
		132322	1745.0	1 / 99	23.22
		132572	1770.0	1 / 0	23.15
	16-QAM	132072	1720.0	1 / 50	22.69
		132322	1745.0	1 / 99	22.52
		132572	1770.0	1 / 0	22.16
15 MHz	QPSK	132047	1717.5	1 / 37	23.49
		132322	1745.0	1 / 74	23.26
		132597	1772.5	1 / 37	23.05
	16-QAM	132047	1717.5	1 / 37	22.53
		132322	1745.0	1 / 74	22.28
		132597	1772.5	1 / 37	22.42
10 MHz	QPSK	132022	1715.0	1 / 25	23.63
		132322	1745.0	1 / 25	23.48
		132622	1775.0	1 / 25	23.22
	16-QAM	132022	1715.0	1 / 25	22.72
		132322	1745.0	1 / 25	22.44
		132622	1775.0	1 / 25	22.45
5 MHz	QPSK	131997	1712.5	1 / 0	23.47
		132322	1745.0	1 / 12	23.27
		132647	1777.5	1 / 12	23.13
	16-QAM	131997	1712.5	1 / 0	22.56
		132322	1745.0	1 / 12	22.46
		132647	1777.5	1 / 12	22.44
3 MHz	QPSK	131987	1711.5	1 / 0	23.57
		132322	1745.0	1 / 7	23.24
		132657	1778.5	1 / 14	23.15
	16-QAM	131987	1711.5	1 / 0	22.57
		132322	1745.0	1 / 7	22.44
		132657	1778.5	1 / 14	22.32
1.4 MHz	QPSK	131979	1710.7	1 / 3	23.52
		132322	1745.0	1 / 3	23.36
		132665	1779.3	1 / 3	23.08
	16-QAM	131979	1710.7	1 / 3	22.66
		132322	1745.0	1 / 3	22.61
		132665	1779.3	1 / 3	22.18

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Table 6-19
LTE Band 25/2 Conducted Powers – Lower Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	QPSK	26140	1860.0	1 / 50	23.24
		26365	1882.5	1 / 50	23.03
		26590	1905.0	1 / 99	23.05
	16-QAM	26140	1860.0	1 / 0	22.31
15 MHz	QPSK	26115	1857.5	1 / 37	23.08
		26365	1882.5	1 / 37	23.10
		26615	1907.5	1 / 37	22.98
	16-QAM	26115	1857.5	1 / 74	22.44
10 MHz	QPSK	26090	1855.0	1 / 0	23.25
		26365	1882.5	1 / 25	23.22
		26640	1910.0	1 / 0	23.07
	16-QAM	26090	1855.0	1 / 25	22.57
5 MHz	QPSK	26065	1852.5	1 / 12	23.21
		26365	1882.5	1 / 12	23.25
		26665	1912.5	1 / 12	23.14
	16-QAM	26065	1852.5	1 / 12	22.60
3 MHz	QPSK	26055	1851.5	1 / 0	23.16
		26365	1882.5	1 / 7	23.19
		26675	1913.5	1 / 7	23.14
	16-QAM	26675	1913.5	1 / 7	22.74
1.4 MHz	QPSK	26047	1850.7	1 / 3	23.67
		26365	1882.5	1 / 3	23.53
		26683	1914.3	1 / 3	23.50
	16-QAM	26683	1914.3	1 / 3	22.92

Table 6-20
LTE Band 25/2 Conducted Powers – Upper Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	QPSK	26140	1860.0	1 / 0	23.33
		26365	1882.5	1 / 50	23.26
		26590	1905.0	1 / 0	23.26
	16-QAM	26590	1905.0	1 / 0	22.45
15 MHz	QPSK	26115	1857.5	1 / 37	23.24
		26365	1882.5	1 / 37	23.29
		26615	1907.5	1 / 37	23.15
	16-QAM	26615	1907.5	1 / 37	22.37
10 MHz	QPSK	26090	1855.0	1 / 25	23.48
		26365	1882.5	1 / 49	23.50
		26640	1910.0	1 / 0	23.32
	16-QAM	26640	1910.0	1 / 0	22.81
5 MHz	QPSK	26065	1852.5	1 / 12	23.42
		26365	1882.5	1 / 24	23.58
		26665	1912.5	1 / 12	23.37
	16-QAM	26665	1912.5	1 / 12	22.56
3 MHz	QPSK	26055	1851.5	1 / 14	23.38
		26365	1882.5	1 / 7	23.42
		26675	1913.5	1 / 0	23.28
	16-QAM	26675	1913.5	1 / 0	22.38
1.4 MHz	QPSK	26047	1850.7	1 / 0	23.39
		26365	1882.5	1 / 3	23.33
		26683	1914.3	1 / 3	23.27
	16-QAM	26683	1914.3	1 / 3	22.52

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Table 6-21
LTE Band 30 Conducted Powers – Lower Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
10 MHz	QPSK	27710	2310.0	1 / 49	23.42
	16-QAM	27710	2310.0	1 / 49	22.65
5 MHz	QPSK	27685	2307.5	1 / 24	22.65
		27710	2310.0	1 / 24	23.32
		27735	2312.5	1 / 12	23.47
	16-QAM	27685	2307.5	1 / 24	22.05
		27710	2310.0	1 / 24	22.78
		27735	2312.5	1 / 12	22.73

Table 6-22
LTE Band 30 Conducted Powers - Upper Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
10 MHz	QPSK	27710	2310.0	1 / 0	23.00
	16-QAM	27710	2310.0	1 / 0	22.25
5 MHz	QPSK	27685	2307.5	1 / 0	23.16
		27710	2310.0	1 / 0	22.88
		27735	2312.5	1 / 0	22.94
	16-QAM	27685	2307.5	1 / 0	22.19
		27710	2310.0	1 / 0	22.05
		27735	2312.5	1 / 0	21.91

Table 6-23
LTE Band 7 Conducted Powers – Lower Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	QPSK	20850	2510.0	1 / 0	24.15
		21100	2535.0	1 / 99	23.94
		21350	2560.0	1 / 99	23.92
	16-QAM	20850	2510.0	1 / 0	23.30
		21100	2535.0	1 / 99	23.30
		21350	2560.0	1 / 99	22.95
15 MHz	QPSK	20825	2507.5	1 / 0	24.10
		21100	2535.0	1 / 74	24.01
		21375	2562.5	1 / 37	23.98
	16-QAM	20825	2507.5	1 / 0	23.52
		21100	2535.0	1 / 74	23.06
		21375	2562.5	1 / 37	23.20
10 MHz	QPSK	20800	2505.0	1 / 0	24.21
		21100	2535.0	1 / 49	24.11
		21400	2565.0	1 / 25	24.09
	16-QAM	20800	2505.0	1 / 0	23.60
		21100	2535.0	1 / 49	23.23
		21400	2565.0	1 / 25	23.15
5 MHz	QPSK	20775	2502.5	1 / 12	24.34
		21100	2535.0	1 / 24	24.07
		21425	2567.5	1 / 12	24.20
	16-QAM	20775	2502.5	1 / 12	23.28
		21100	2535.0	1 / 24	23.23
		21425	2567.5	1 / 12	23.32

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Table 6-24
LTE Band 7 Conducted Powers – Upper Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	QPSK	20850	2510.0	1 / 99	23.07
		21100	2535.0	1 / 99	23.41
		21350	2560.0	1 / 99	23.77
	16-QAM	20850	2510.0	1 / 99	22.24
		21100	2535.0	1 / 99	22.55
		21350	2560.0	1 / 99	23.03
15 MHz	QPSK	20825	2507.5	1 / 37	22.37
		21100	2535.0	1 / 0	23.13
		21375	2562.5	1 / 37	23.62
	16-QAM	20825	2507.5	1 / 37	21.51
		21100	2535.0	1 / 0	22.32
		21375	2562.5	1 / 37	22.81
10 MHz	QPSK	20800	2505.0	1 / 0	23.25
		21100	2535.0	1 / 49	23.46
		21400	2565.0	1 / 0	23.92
	16-QAM	20800	2505.0	1 / 0	22.19
		21100	2535.0	1 / 49	22.67
		21400	2565.0	1 / 0	22.96
5 MHz	QPSK	20775	2502.5	1 / 24	23.19
		21100	2535.0	1 / 24	23.45
		21425	2567.5	1 / 12	23.93
	16-QAM	20775	2502.5	1 / 24	22.49
		21100	2535.0	1 / 24	22.61
		21425	2567.5	1 / 12	22.97

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Table 6-25
LTE Band 41/38 Power Class 3 Conducted Powers – Lower Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	QPSK	39750	2506.0	1 / 0	23.74
		40620	2593.0	1 / 99	23.69
		41490	2680.0	1 / 0	23.80
	16-QAM	39750	2506.0	1 / 0	22.84
		40620	2593.0	1 / 99	22.71
		41490	2680.0	1 / 0	21.87
15 MHz	QPSK	39725	2503.5	1 / 37	23.76
		40620	2593.0	1 / 74	23.61
		41515	2682.5	1 / 0	23.75
	16-QAM	39725	2503.5	1 / 37	22.85
		40620	2593.0	1 / 74	22.68
		41515	2682.5	1 / 0	22.84
10 MHz	QPSK	39700	2501.0	1 / 25	23.91
		40620	2593.0	1 / 25	23.70
		41540	2685.0	1 / 25	23.83
	16-QAM	39700	2501.0	1 / 25	22.94
		40620	2593.0	1 / 25	22.75
		41540	2685.0	1 / 25	22.89
5 MHz	QPSK	39675	2498.5	1 / 12	23.95
		40620	2593.0	1 / 12	23.72
		41565	2687.5	1 / 12	23.74
	16-QAM	39675	2498.5	1 / 12	22.95
		40620	2593.0	1 / 12	22.75
		41565	2687.5	1 / 12	22.81

Table 6-26
LTE Band 41/38 Power Class 3 Conducted Powers – Upper Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	QPSK	39750	2506.0	1 / 99	23.46
		40620	2593.0	1 / 99	24.02
		41490	2680.0	1 / 99	23.98
	16-QAM	39750	2506.0	1 / 99	22.47
		40620	2593.0	1 / 99	23.03
		41490	2680.0	1 / 99	22.97
15 MHz	QPSK	39725	2503.5	1 / 74	23.73
		40620	2593.0	1 / 74	24.27
		41515	2682.5	1 / 74	24.30
	16-QAM	39725	2503.5	1 / 74	22.81
		40620	2593.0	1 / 74	23.36
		41515	2682.5	1 / 74	23.38
10 MHz	QPSK	39700	2501.0	1 / 25	23.30
		40620	2593.0	1 / 25	23.69
		41540	2685.0	1 / 25	23.60
	16-QAM	39700	2501.0	1 / 25	22.51
		40620	2593.0	1 / 25	22.14
		41540	2685.0	1 / 25	22.43
5 MHz	QPSK	39675	2498.5	1 / 24	23.49
		40620	2593.0	1 / 0	23.86
		41565	2687.5	1 / 24	23.82
	16-QAM	39675	2498.5	1 / 24	22.09
		40620	2593.0	1 / 0	22.49
		41565	2687.5	1 / 24	22.15

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Table 6-27
LTE Band 48 Power Class 3 Conducted Powers

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	QPSK	55340	3560.0	1 / 1	22.14
		55990	3625.0	1 / 25	21.90
		56640	3690.0	1 / 25	22.33
	16-QAM	55340	3560.0	1 / 1	21.07
15 MHz	QPSK	55315	3557.5	1 / 36	22.29
		55990	3625.0	1 / 19	21.66
		56665	3692.5	1 / 36	22.00
	16-QAM	55315	3557.5	1 / 19	20.77
10 MHz	QPSK	55290	3555.0	1 / 12	22.55
		55990	3625.0	1 / 12	21.33
		56690	3695.0	1 / 1	22.06
	16-QAM	55290	3555.0	1 / 12	20.79
5 MHz	QPSK	55265	3552.5	1 / 1	22.59
		55990	3625.0	1 / 1	21.57
		56715	3697.5	1 / 1	21.66
	16-QAM	55265	3552.5	1 / 1	21.46

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Table 6-28
NR Band 71 Conducted Powers

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	$\pi/2$ BPSK	134600	673.0	1 / 53	24.31
		136100	680.5	1 / 53	24.26
		137600	688.0	1 / 53	24.56
	QPSK	134600	673.0	1 / 53	24.11
		136100	680.5	1 / 53	24.11
		137600	688.0	1 / 53	24.54
	16-QAM	134600	673.0	1 / 53	23.18
		136100	680.5	1 / 53	23.37
		137600	688.0	1 / 53	23.31
15 MHz	$\pi/2$ BPSK	134100	670.5	1 / 77	24.55
		136100	680.5	1 / 77	24.49
		138100	690.5	1 / 77	24.73
	QPSK	134100	670.5	1 / 77	24.59
		136100	680.5	1 / 77	24.59
		138100	690.5	1 / 77	24.64
	16-QAM	134100	670.5	1 / 77	23.92
		136100	680.5	1 / 77	23.38
		138100	690.5	1 / 77	23.57
10 MHz	$\pi/2$ BPSK	133600	668.0	1 / 1	24.28
		136100	680.5	1 / 26	24.58
		138600	693.0	1 / 50	24.76
	QPSK	133600	668.0	1 / 1	24.19
		136100	680.5	1 / 26	24.35
		138600	693.0	1 / 50	24.68
	16-QAM	133600	668.0	1 / 1	23.34
		136100	680.5	1 / 26	23.39
		138600	693.0	1 / 50	23.62
5 MHz	$\pi/2$ BPSK	133100	665.5	1 / 1	24.32
		136100	680.5	1 / 12	24.50
		139100	695.5	1 / 12	24.61
	QPSK	133100	665.5	1 / 1	24.19
		136100	680.5	1 / 12	24.09
		139100	695.5	1 / 12	24.67
	16-QAM	133100	665.5	1 / 1	23.05
		136100	680.5	1 / 12	23.42
		139100	695.5	1 / 12	23.26

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Table 6-29
NR Band 14 Conducted Powers

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
10 MHz	$\pi/2$ BPSK	23330	793.0	1 / 26	23.48
	QPSK	23330	793.0	1 / 26	23.56
	16-QAM	23330	793.0	1 / 26	22.72
5 MHz	$\pi/2$ BPSK	23305	790.5	1 / 23	23.68
		23330	793.0	1 / 1	23.73
		23355	795.5	1 / 12	23.70
	QPSK	23305	790.5	1 / 23	23.41
		23330	793.0	1 / 1	23.58
		23355	795.5	1 / 12	23.86
	16-QAM	23305	790.5	1 / 23	22.53
		23330	793.0	1 / 1	22.76
		23355	795.5	1 / 12	22.62

Table 6-30
NR Band 26/5 Conducted Powers

20 MHz	$\pi/2$ BPSK	166800	834.0	1 / 1	24.86
		167300	836.5	1 / 53	24.79
		167800	839.0	1 / 1	24.72
	QPSK	166800	834.0	1 / 1	24.99
		167300	836.5	1 / 53	24.77
		167800	839.0	1 / 1	24.84
	16-QAM	166800	834.0	1 / 1	24.15
		167300	836.5	1 / 53	23.68
		167800	839.0	1 / 1	23.68
15 MHz	$\pi/2$ BPSK	166300	831.5	1 / 1	24.90
		167300	836.5	1 / 1	24.87
		168300	841.5	1 / 1	24.80
	QPSK	166300	831.5	1 / 1	24.87
		167300	836.5	1 / 1	24.90
		168300	841.5	1 / 1	24.69
	16-QAM	166300	831.5	1 / 1	24.23
		167300	836.5	1 / 1	24.02
		168300	841.5	1 / 1	23.76
10 MHz	$\pi/2$ BPSK	165800	829.0	1 / 1	24.74
		167300	836.5	1 / 1	24.70
		168800	844.0	1 / 1	24.45
	QPSK	165800	829.0	1 / 1	24.77
		167300	836.5	1 / 1	24.66
		168800	844.0	1 / 1	24.43
	16-QAM	165800	829.0	1 / 1	23.70
		167300	836.5	1 / 1	23.64
		168800	844.0	1 / 1	23.54
5 MHz	$\pi/2$ BPSK	165300	826.5	1 / 23	24.87
		167300	836.5	1 / 1	24.72
		169300	846.5	1 / 1	24.32
	QPSK	165300	826.5	1 / 23	24.78
		167300	836.5	1 / 1	24.79
		169300	846.5	1 / 1	24.36
	16-QAM	165300	826.5	1 / 23	23.81
		167300	836.5	1 / 1	23.61
		169300	846.5	1 / 1	23.36

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Table 6-31
NR Band 70 Conducted Powers – Lower Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
15 MHz	$\pi/2$ BPSK	340500	1702.5	1 / 1	24.24
	QPSK	340500	1702.5	1 / 1	24.01
	16-QAM	340500	1702.5	1 / 1	23.41
10 MHz	$\pi/2$ BPSK	340000	1700.0	1 / 1	24.38
		340500	1702.5	1 / 26	24.39
		341000	1705.0	1 / 1	24.31
	QPSK	340000	1700.0	1 / 1	24.43
		340500	1702.5	1 / 26	24.41
		341000	1705.0	1 / 1	24.25
	16-QAM	340000	1700.0	1 / 1	23.46
		340500	1702.5	1 / 26	23.51
		341000	1705.0	1 / 1	23.41
5 MHz	$\pi/2$ BPSK	339500	1697.5	1 / 1	24.41
		340500	1702.5	1 / 12	24.30
		341500	1707.5	1 / 23	24.12
	QPSK	339500	1697.5	1 / 1	24.30
		340500	1702.5	1 / 12	23.97
		341500	1707.5	1 / 23	24.01
	16-QAM	339500	1697.5	1 / 1	23.27
		340500	1702.5	1 / 12	23.33
		341500	1707.5	1 / 23	23.07

Table 6-32
NR Band 70 Conducted Powers – Upper Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
15 MHz	$\pi/2$ BPSK	340500	1702.5	1 / 77	23.98
	QPSK	340500	1702.5	1 / 77	23.96
	16-QAM	340500	1702.5	1 / 77	23.19
10 MHz	$\pi/2$ BPSK	340000	1700.0	1 / 1	23.98
		340500	1702.5	1 / 50	23.96
		341000	1705.0	1 / 50	23.99
	QPSK	340000	1700.0	1 / 1	23.87
		340500	1702.5	1 / 50	23.93
		341000	1705.0	1 / 50	23.74
	16-QAM	340000	1700.0	1 / 1	23.04
		340500	1702.5	1 / 50	23.12
		341000	1705.0	1 / 50	23.11
5 MHz	$\pi/2$ BPSK	339500	1697.5	1 / 1	23.97
		340500	1702.5	1 / 12	23.99
		341500	1707.5	1 / 1	23.93
	QPSK	339500	1697.5	1 / 1	23.89
		340500	1702.5	1 / 12	23.94
		341500	1707.5	1 / 1	23.90
	16-QAM	339500	1697.5	1 / 1	23.03
		340500	1702.5	1 / 12	23.01
		341500	1707.5	1 / 1	22.99

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Table 6-33
NR Band 66 Conducted Powers – Lower Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
40 MHz	$\pi/2$ BPSK	346000	1730.0	1 / 108	24.14
		349000	1745.0	1 / 108	24.09
		352000	1760.0	1 / 1	24.20
	QPSK	346000	1730.0	1 / 108	24.00
		349000	1745.0	1 / 108	24.14
		352000	1760.0	1 / 1	24.07
	16-QAM	346000	1730.0	1 / 108	23.32
		349000	1745.0	1 / 108	22.98
		352000	1760.0	1 / 1	23.00
30 MHz	$\pi/2$ BPSK	345000	1725.0	1 / 80	24.22
		349000	1745.0	1 / 80	24.15
		353000	1765.0	1 / 80	24.24
	QPSK	345000	1725.0	1 / 80	24.09
		349000	1745.0	1 / 80	24.11
		353000	1765.0	1 / 80	24.20
	16-QAM	345000	1725.0	1 / 80	23.17
		349000	1745.0	1 / 80	23.22
		353000	1765.0	1 / 80	23.21
25 MHz	$\pi/2$ BPSK	344500	1722.5	1 / 131	24.19
		349000	1745.0	1 / 131	24.30
		353500	1767.5	1 / 131	24.21
	QPSK	344500	1722.5	1 / 131	24.20
		349000	1745.0	1 / 131	24.43
		353500	1767.5	1 / 131	24.15
	16-QAM	344500	1722.5	1 / 131	23.18
		349000	1745.0	1 / 131	23.12
		353500	1767.5	1 / 131	23.25
20 MHz	$\pi/2$ BPSK	344000	1720.0	1 / 104	24.15
		349000	1745.0	1 / 1	24.00
		354000	1770.0	1 / 104	24.07
	QPSK	344000	1720.0	1 / 104	24.18
		349000	1745.0	1 / 1	24.17
		354000	1770.0	1 / 104	24.15
	16-QAM	344000	1720.0	1 / 104	23.11
		349000	1745.0	1 / 1	23.33
		354000	1770.0	1 / 104	22.90
15 MHz	$\pi/2$ BPSK	343500	1717.5	1 / 39	24.19
		349000	1745.0	1 / 77	24.11
		354500	1772.5	1 / 77	24.07
	QPSK	343500	1717.5	1 / 39	24.08
		349000	1745.0	1 / 77	24.09
		354500	1772.5	1 / 77	24.01
	16-QAM	343500	1717.5	1 / 39	23.12
		349000	1745.0	1 / 77	23.16
		354500	1772.5	1 / 77	22.84
10 MHz	$\pi/2$ BPSK	343000	1715.0	1 / 1	24.17
		349000	1745.0	1 / 1	24.05
		355000	1775.0	1 / 50	24.02
	QPSK	343000	1715.0	1 / 1	24.02
		349000	1745.0	1 / 1	23.92
		355000	1775.0	1 / 50	24.20
	16-QAM	343000	1715.0	1 / 1	23.20
		349000	1745.0	1 / 1	22.92
		355000	1775.0	1 / 50	23.12
5 MHz	$\pi/2$ BPSK	342500	1712.5	1 / 23	24.02
		349000	1745.0	1 / 12	23.91
		355500	1777.5	1 / 23	23.94
	QPSK	342500	1712.5	1 / 23	24.16
		349000	1745.0	1 / 12	23.87
		355500	1777.5	1 / 23	23.89
	16-QAM	342500	1712.5	1 / 23	22.94
		349000	1745.0	1 / 12	23.10
		355500	1777.5	1 / 23	22.76

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Table 6-34
NR Band 66 Conducted Powers – Upper Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
40 MHz	$\pi/2$ BPSK	346000	1730.0	1 / 108	23.85
		349000	1745.0	1 / 1	23.78
		352000	1760.0	1 / 1	23.71
	QPSK	346000	1730.0	1 / 108	23.86
		349000	1745.0	1 / 1	23.50
		352000	1760.0	1 / 1	23.72
	16-QAM	346000	1730.0	1 / 108	22.93
		349000	1745.0	1 / 1	22.42
		352000	1760.0	1 / 1	22.90
30 MHz	$\pi/2$ BPSK	345000	1725.0	1 / 80	23.98
		349000	1745.0	1 / 1	23.90
		353000	1765.0	1 / 1	23.66
	QPSK	345000	1725.0	1 / 80	23.88
		349000	1745.0	1 / 1	23.81
		353000	1765.0	1 / 1	23.65
	16-QAM	345000	1725.0	1 / 80	23.07
		349000	1745.0	1 / 1	22.90
		353000	1765.0	1 / 1	22.75
25 MHz	$\pi/2$ BPSK	344500	1722.5	1 / 1	23.99
		349000	1745.0	1 / 1	23.84
		353500	1767.5	1 / 131	23.83
	QPSK	344500	1722.5	1 / 1	23.99
		349000	1745.0	1 / 1	23.93
		353500	1767.5	1 / 131	23.66
	16-QAM	344500	1722.5	1 / 1	23.26
		349000	1745.0	1 / 1	22.96
		353500	1767.5	1 / 131	22.63
20 MHz	$\pi/2$ BPSK	344000	1720.0	1 / 1	23.95
		349000	1745.0	1 / 1	23.84
		354000	1770.0	1 / 104	23.55
	QPSK	344000	1720.0	1 / 1	24.00
		349000	1745.0	1 / 1	23.82
		354000	1770.0	1 / 104	23.53
	16-QAM	344000	1720.0	1 / 1	22.72
		349000	1745.0	1 / 1	22.89
		354000	1770.0	1 / 104	22.68
15 MHz	$\pi/2$ BPSK	343500	1717.5	1 / 77	23.97
		349000	1745.0	1 / 77	23.67
		354500	1772.5	1 / 77	23.46
	QPSK	343500	1717.5	1 / 77	23.99
		349000	1745.0	1 / 77	23.64
		354500	1772.5	1 / 77	23.63
	16-QAM	343500	1717.5	1 / 77	23.39
		349000	1745.0	1 / 77	22.54
		354500	1772.5	1 / 77	22.52
10 MHz	$\pi/2$ BPSK	343000	1715.0	1 / 26	23.87
		349000	1745.0	1 / 26	23.59
		355000	1775.0	1 / 26	23.44
	QPSK	343000	1715.0	1 / 26	23.82
		349000	1745.0	1 / 26	23.55
		355000	1775.0	1 / 26	23.41
	16-QAM	343000	1715.0	1 / 26	22.69
		349000	1745.0	1 / 26	22.67
		355000	1775.0	1 / 26	22.14
5 MHz	$\pi/2$ BPSK	342500	1712.5	1 / 12	23.93
		349000	1745.0	1 / 23	23.58
		355500	1777.5	1 / 1	23.29
	QPSK	342500	1712.5	1 / 12	23.84
		349000	1745.0	1 / 23	23.60
		355500	1777.5	1 / 1	23.21
	16-QAM	342500	1712.5	1 / 12	22.80
		349000	1745.0	1 / 23	22.52
		355500	1777.5	1 / 1	22.19

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Table 6-35
NR Band 25/2 Conducted Powers – Lower Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
40 MHz	$\pi/2$ BPSK	374000	1870.0	1 / 108	24.10
		376500	1882.5	1 / 1	24.20
		379000	1895.0	1 / 108	24.21
	QPSK	374000	1870.0	1 / 108	24.08
		376500	1882.5	1 / 1	24.25
		379000	1895.0	1 / 108	24.24
	16-QAM	374000	1870.0	1 / 108	23.37
		376500	1882.5	1 / 1	23.31
		379000	1895.0	1 / 108	23.22
30 MHz	$\pi/2$ BPSK	372000	1865.0	1 / 80	24.25
		376500	1882.5	1 / 80	24.23
		381000	1900.0	1 / 80	24.18
	QPSK	372000	1865.0	1 / 80	24.22
		376500	1882.5	1 / 80	24.26
		381000	1900.0	1 / 80	24.28
	16-QAM	372000	1865.0	1 / 80	23.37
		376500	1882.5	1 / 80	22.97
		381000	1900.0	1 / 80	23.19
25 MHz	$\pi/2$ BPSK	372000	1862.5	1 / 1	24.22
		376500	1882.5	1 / 1	24.23
		381000	1902.5	1 / 131	24.09
	QPSK	372000	1862.5	1 / 1	24.11
		376500	1882.5	1 / 1	24.09
		381000	1902.5	1 / 131	24.11
	16-QAM	372000	1862.5	1 / 1	23.35
		376500	1882.5	1 / 1	23.33
		381000	1902.5	1 / 131	22.99
20 MHz	$\pi/2$ BPSK	372000	1860.0	1 / 1	24.22
		376500	1882.5	1 / 1	24.21
		381000	1905.0	1 / 1	24.10
	QPSK	372000	1860.0	1 / 1	24.15
		376500	1882.5	1 / 1	24.16
		381000	1905.0	1 / 1	24.20
	16-QAM	372000	1860.0	1 / 1	23.37
		376500	1882.5	1 / 1	23.36
		381000	1905.0	1 / 1	23.03
15 MHz	$\pi/2$ BPSK	371500	1857.5	1 / 39	24.17
		376500	1882.5	1 / 1	24.11
		381500	1907.5	1 / 1	24.04
	QPSK	371500	1857.5	1 / 39	24.06
		376500	1882.5	1 / 1	24.17
		381500	1907.5	1 / 1	24.02
	16-QAM	371500	1857.5	1 / 39	22.96
		376500	1882.5	1 / 1	22.95
		381500	1907.5	1 / 1	23.09
10 MHz	$\pi/2$ BPSK	371000	1855.0	1 / 1	24.12
		376500	1882.5	1 / 26	24.10
		382000	1910.0	1 / 1	24.21
	QPSK	371000	1855.0	1 / 1	24.13
		376500	1882.5	1 / 26	23.95
		382000	1910.0	1 / 1	24.10
	16-QAM	371000	1855.0	1 / 1	23.55
		376500	1882.5	1 / 26	22.85
		382000	1910.0	1 / 1	22.98
5 MHz	$\pi/2$ BPSK	370500	1852.5	1 / 1	24.25
		376500	1882.5	1 / 1	24.18
		382500	1912.5	1 / 12	24.07
	QPSK	370500	1852.5	1 / 1	24.16
		376500	1882.5	1 / 1	23.96
		382500	1912.5	1 / 12	23.92
	16-QAM	370500	1852.5	1 / 1	23.14
		376500	1882.5	1 / 1	23.18
		382500	1912.5	1 / 12	22.96

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Table 6-36
NR Band 25/2 Conducted Powers – Upper Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
40 MHz	$\pi/2$ BPSK	374000	1870.0	1 / 214	23.81
		376500	1882.5	1 / 108	23.88
		379000	1895.0	1 / 108	23.82
	QPSK	374000	1870.0	1 / 214	23.76
		376500	1882.5	1 / 108	23.78
		379000	1895.0	1 / 108	23.91
	16-QAM	374000	1870.0	1 / 214	22.76
30 MHz	$\pi/2$ BPSK	372000	1865.0	1 / 80	23.89
		376500	1882.5	1 / 80	23.96
		381000	1900.0	1 / 1	23.86
	QPSK	372000	1865.0	1 / 1	23.84
		376500	1882.5	1 / 80	23.96
		381000	1900.0	1 / 1	23.92
	16-QAM	372000	1865.0	1 / 1	22.93
25 MHz	$\pi/2$ BPSK	372000	1862.5	1 / 1	23.84
		376500	1882.5	1 / 66	23.97
		381000	1902.5	1 / 1	23.71
	QPSK	372000	1862.5	1 / 1	23.88
		376500	1882.5	1 / 66	23.79
		381000	1902.5	1 / 1	23.70
	16-QAM	372000	1862.5	1 / 1	22.94
20 MHz	$\pi/2$ BPSK	372000	1860.0	1 / 53	23.87
		376500	1882.5	1 / 104	23.90
		381000	1905.0	1 / 1	23.88
	QPSK	372000	1860.0	1 / 53	23.85
		376500	1882.5	1 / 104	23.99
		381000	1905.0	1 / 1	24.00
	16-QAM	372000	1860.0	1 / 53	23.11
15 MHz	$\pi/2$ BPSK	371500	1857.5	1 / 39	23.91
		376500	1882.5	1 / 1	23.93
		381500	1907.5	1 / 1	23.90
	QPSK	371500	1857.5	1 / 39	23.93
		376500	1882.5	1 / 1	23.90
		381500	1907.5	1 / 1	23.92
	16-QAM	371500	1857.5	1 / 39	22.80
10 MHz	$\pi/2$ BPSK	371000	1855.0	1 / 1	23.79
		376500	1882.5	1 / 26	23.85
		382000	1910.0	1 / 26	23.77
	QPSK	371000	1855.0	1 / 1	23.81
		376500	1882.5	1 / 26	23.73
		382000	1910.0	1 / 26	23.72
	16-QAM	371000	1855.0	1 / 1	22.93
5 MHz	$\pi/2$ BPSK	370500	1852.5	1 / 12	23.82
		376500	1882.5	1 / 23	23.99
		382500	1912.5	1 / 23	23.73
	QPSK	370500	1852.5	1 / 12	23.79
		376500	1882.5	1 / 23	23.91
		382500	1912.5	1 / 23	23.57
	16-QAM	370500	1852.5	1 / 12	22.98

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Table 6-37
NR Band 30 Conducted Powers – Lower Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
10 MHz	$\pi/2$ BPSK	27710	2310.0	1 / 26	23.97
	QPSK	27710	2310.0	1 / 50	23.89
	16-QAM	27710	2310.0	1 / 26	22.39
5 MHz	$\pi/2$ BPSK	27685	2307.5	1 / 23	23.72
		27710	2310.0	1 / 23	23.70
		27735	2312.5	1 / 12	23.82
	QPSK	27685	2307.5	1 / 23	23.14
		27710	2310.0	1 / 23	23.69
		27735	2312.5	1 / 12	23.95
	16-QAM	27685	2307.5	1 / 23	22.47
		27710	2310.0	1 / 23	23.80
		27735	2312.5	1 / 12	23.06

Table 6-38
NR Band 30 Conducted Powers – Upper Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
10 MHz	$\pi/2$ BPSK	27710	2310.0	1 / 50	23.74
	QPSK	27710	2310.0	1 / 50	23.61
	16-QAM	27710	2310.0	1 / 50	22.75
5 MHz	$\pi/2$ BPSK	27685	2307.5	1 / 1	23.61
		27710	2310.0	1 / 12	23.77
		27735	2312.5	1 / 12	23.66
	QPSK	27685	2307.5	1 / 1	23.56
		27710	2310.0	1 / 12	23.79
		27735	2312.5	1 / 1	23.86
	16-QAM	27685	2307.5	1 / 1	22.68
		27710	2310.0	1 / 12	22.66
		27735	2312.5	1 / 1	22.65

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Table 6-39
NR Band 41/38 Power Class 2 Conducted Powers – Lower Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	509202	2546.01	1 / 136	26.96
		518598	2592.99	1 / 271	26.94
		528000	2640.00	1 / 136	26.99
	QPSK	509202	2546.01	1 / 136	26.63
		518598	2592.99	1 / 136	26.62
		528000	2640.00	1 / 136	26.67
	16-QAM	509202	2546.01	1 / 136	25.92
		518598	2592.99	1 / 271	25.56
		528000	2640.00	1 / 136	26.09
90 MHz	$\pi/2$ BPSK	508200	2541.00	1 / 122	26.85
		518598	2592.99	1 / 243	26.98
		528996	2644.98	1 / 122	26.73
	QPSK	508200	2541.00	1 / 122	26.78
		518598	2592.99	1 / 243	26.97
		528996	2644.98	1 / 122	26.44
	16-QAM	508200	2541.00	1 / 122	25.90
		518598	2592.99	1 / 243	25.95
		528996	2644.98	1 / 122	25.15
80 MHz	$\pi/2$ BPSK	507204	2536.02	1 / 108	26.82
		518598	2592.99	1 / 215	26.78
		529998	2649.99	1 / 108	26.98
	QPSK	507204	2536.02	1 / 108	26.72
		518598	2592.99	1 / 1	26.77
		529998	2649.99	1 / 108	26.82
	16-QAM	507204	2536.02	1 / 108	25.87
		518598	2592.99	1 / 215	25.63
		529998	2649.99	1 / 108	25.61
70 MHz	$\pi/2$ BPSK	506202	2531.01	1 / 187	26.75
		518598	2592.99	1 / 1	26.83
		531000	2655.00	1 / 94	26.86
	QPSK	506202	2531.01	1 / 94	26.79
		518598	2592.99	1 / 1	26.80
		531000	2655.00	1 / 94	26.85
	16-QAM	506202	2531.01	1 / 94	25.51
		518598	2592.99	1 / 94	25.43
		531000	2655.00	1 / 94	25.49
60 MHz	$\pi/2$ BPSK	505200	2526.00	1 / 160	26.93
		518598	2592.99	1 / 160	26.86
		531996	2659.98	1 / 81	26.81
	QPSK	505200	2526.00	1 / 160	26.91
		518598	2592.99	1 / 1	26.92
		531996	2659.98	1 / 1	26.77
	16-QAM	505200	2526.00	1 / 160	26.55
		518598	2592.99	1 / 1	25.72
		531996	2659.98	1 / 81	25.62
50 MHz	$\pi/2$ BPSK	504204	2521.02	1 / 131	26.98
		518598	2592.99	1 / 131	26.98
		532998	2664.99	1 / 1	26.99
	QPSK	504204	2521.02	1 / 131	26.99
		518598	2592.99	1 / 131	26.64
		532998	2664.99	1 / 1	27.00
	16-QAM	504204	2521.02	1 / 131	26.29
		518598	2592.99	1 / 131	25.83
		532998	2664.99	1 / 1	26.02
40 MHz	$\pi/2$ BPSK	503202	2516.01	1 / 104	27.30
		518598	2592.99	1 / 104	27.23
		534000	2670.00	1 / 1	27.34
	QPSK	503202	2516.01	1 / 104	26.95
		518598	2592.99	1 / 104	27.00
		534000	2670.00	1 / 1	27.03
	16-QAM	503202	2516.01	1 / 104	26.31
		518598	2592.99	1 / 104	26.49
		534000	2670.00	1 / 1	26.08
30 MHz	$\pi/2$ BPSK	502200	2511.00	1 / 76	27.33
		518598	2592.99	1 / 76	27.13
		534996	2674.98	1 / 1	27.35
	QPSK	502200	2511.00	1 / 76	27.22
		518598	2592.99	1 / 76	27.18
		534996	2674.98	1 / 1	27.02
	16-QAM	502200	2511.00	1 / 76	26.35
		518598	2592.99	1 / 76	26.01
		534996	2674.98	1 / 1	26.10
20 MHz	$\pi/2$ BPSK	501204	2506.02	1 / 49	27.19
		518598	2592.99	1 / 49	27.28
		535998	2679.99	1 / 1	27.36
	QPSK	501204	2506.02	1 / 49	26.59
		518598	2592.99	1 / 49	27.17
		535998	2679.99	1 / 1	27.05
	16-QAM	501204	2506.02	1 / 49	25.68
		518598	2592.99	1 / 49	26.02
		535998	2679.99	1 / 1	26.26

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Table 6-40
NR Band 41/38 Power Class 2 Conducted Powers – Upper Ant

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	509202	2546.01	1 / 136	26.17
		518598	2592.99	1 / 136	26.09
		528000	2640.00	270 / 0	25.67
	QPSK	509202	2546.01	1 / 136	26.06
		518598	2592.99	1 / 136	25.89
		528000	2640.00	1 / 1	25.77
	16-QAM	509202	2546.01	1 / 136	25.09
		518598	2592.99	1 / 136	24.92
		528000	2640.00	1 / 1	24.62

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Table 6-41
NR Band 48 Conducted Powers

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
40 MHz	$\pi/2$ BPSK	638000	3570.0	1 / 1	22.81
		641666	3625.0	1 / 1	22.08
		645332	3680.0	1 / 104	22.25
	QPSK	638000	3570.0	1 / 1	22.65
		641666	3625.0	1 / 1	22.19
		645332	3680.0	1 / 104	22.30
	16-QAM	638000	3570.0	1 / 1	21.73
		641666	3625.0	1 / 1	21.60
		645332	3680.0	1 / 104	21.79
30 MHz	$\pi/2$ BPSK	637666	3565.0	1 / 1	22.58
		641666	3625.0	1 / 1	22.17
		645666	3685.0	1 / 39	22.00
	QPSK	637666	3565.0	1 / 1	22.61
		641666	3625.0	1 / 1	22.14
		645666	3685.0	1 / 39	22.05
	16-QAM	637666	3565.0	1 / 1	21.97
		641666	3625.0	1 / 1	21.52
		645666	3685.0	1 / 39	21.15
20 MHz	$\pi/2$ BPSK	637334	3560.0	1 / 1	21.67
		641666	3625.0	1 / 49	21.81
		646000	3690.0	1 / 1	21.96
	QPSK	637334	3560.0	1 / 1	21.62
		641666	3625.0	1 / 49	21.80
		646000	3690.0	1 / 1	21.84
	16-QAM	637334	3560.0	1 / 1	21.26
		641666	3625.0	1 / 49	21.21
		646000	3690.0	1 / 1	21.26
15 MHz	$\pi/2$ BPSK	637166	3557.5	1 / 1	21.55
		641666	3625.0	1 / 36	21.41
		646166	3692.5	1 / 36	21.78
	QPSK	637166	3557.5	1 / 1	21.57
		641666	3625.0	1 / 36	21.46
		646166	3692.5	1 / 36	21.91
	16-QAM	637166	3557.5	1 / 1	21.05
		641666	3625.0	1 / 36	21.24
		646166	3692.5	1 / 36	21.06
10 MHz	$\pi/2$ BPSK	637000	3555.0	1 / 1	21.49
		641666	3625.0	1 / 1	21.06
		646332	3695.0	1 / 12	21.30
	QPSK	637000	3555.0	1 / 1	21.61
		641666	3625.0	1 / 1	20.95
		646332	3695.0	1 / 12	21.22
	16-QAM	637000	3555.0	1 / 1	21.26
		641666	3625.0	1 / 1	20.34
		646332	3695.0	1 / 12	21.06

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Table 6-42
NR Band 77 (C-Band) Power Class 2 Conducted Powers (100MHz through 50MHz)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	650000	3750.00	1 / 136	25.45
		656000	3840.00	1 / 136	25.46
		662000	3930.00	1 / 271	25.97
	QPSK	650000	3750.00	1 / 136	25.43
		656000	3840.00	1 / 136	25.38
		662000	3930.00	1 / 136	25.89
	16-QAM	650000	3750.00	1 / 136	24.65
		656000	3840.00	1 / 136	24.50
		662000	3930.00	1 / 271	24.99
90 MHz	$\pi/2$ BPSK	649668	3745.02	1 / 122	25.77
		656000	3840.00	1 / 122	25.49
		662332	3934.98	1 / 243	25.91
	QPSK	649668	3745.02	1 / 122	25.91
		656000	3840.00	1 / 122	25.39
		662332	3934.98	1 / 243	25.88
	16-QAM	649668	3745.02	1 / 122	25.07
		656000	3840.00	1 / 122	24.41
		662332	3934.98	1 / 243	25.02
80 MHz	$\pi/2$ BPSK	649334	3740.01	1 / 108	26.17
		656000	3840.00	1 / 108	26.05
		662666	3939.99	1 / 108	26.25
	QPSK	649334	3740.01	1 / 108	26.15
		656000	3840.00	1 / 108	25.98
		662666	3939.99	1 / 108	26.24
	16-QAM	649334	3740.01	1 / 108	25.09
		656000	3840.00	1 / 108	24.77
		662666	3939.99	1 / 108	25.19
70 MHz	$\pi/2$ BPSK	649000	3735.00	1 / 94	26.25
		656000	3840.00	1 / 187	25.99
		663000	3945.00	1 / 94	26.30
	QPSK	649000	3735.00	1 / 94	26.19
		656000	3840.00	1 / 94	26.04
		663000	3945.00	1 / 94	26.37
	16-QAM	649000	3735.00	1 / 94	25.22
		656000	3840.00	1 / 94	25.08
		663000	3945.00	1 / 94	25.05
60 MHz	$\pi/2$ BPSK	648668	3730.02	1 / 81	26.50
		656000	3840.00	1 / 160	26.14
		663332	3949.98	1 / 81	26.43
	QPSK	648668	3730.02	1 / 81	26.38
		656000	3840.00	1 / 160	25.98
		663332	3949.98	1 / 81	26.45
	16-QAM	648668	3730.02	1 / 81	25.27
		656000	3840.00	1 / 160	25.26
		663332	3949.98	1 / 81	24.97
50 MHz	$\pi/2$ BPSK	648334	3725.01	1 / 66	26.26
		656000	3840.00	1 / 131	26.18
		663666	3954.99	1 / 1	26.53
	QPSK	648334	3725.01	1 / 66	26.33
		656000	3840.00	1 / 131	26.30
		663666	3954.99	1 / 1	26.66
	16-QAM	648334	3725.01	1 / 66	25.28
		656000	3840.00	1 / 131	25.26
		663666	3954.99	1 / 1	25.80

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Table 6-43
NR Band 77 (C-Band) Power Class 2 Conducted Powers (40MHz through 10MHz)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
40 MHz	$\pi/2$ BPSK	648000	3720.00	1 / 104	26.82
		656000	3840.00	1 / 104	26.31
		664000	3960.00	1 / 1	26.94
	QPSK	648000	3720.00	1 / 104	26.66
		656000	3840.00	1 / 104	26.29
		664000	3960.00	1 / 1	26.96
	16-QAM	648000	3720.00	1 / 104	25.61
		656000	3840.00	1 / 104	25.34
		664000	3960.00	1 / 1	26.11
30 MHz	$\pi/2$ BPSK	647668	3715.02	1 / 76	26.51
		656000	3840.00	1 / 76	25.97
		664332	3964.98	1 / 1	26.82
	QPSK	647668	3715.02	1 / 76	26.50
		656000	3840.00	1 / 76	26.07
		664332	3964.98	1 / 1	26.98
	16-QAM	647668	3715.02	1 / 76	25.21
		656000	3840.00	1 / 76	24.79
		664332	3964.98	1 / 1	25.99
25 MHz	$\pi/2$ BPSK	647500	3712.50	1 / 104	26.80
		656000	3840.00	1 / 104	26.58
		664500	3967.50	1 / 104	26.96
	QPSK	647500	3712.50	1 / 104	26.82
		656000	3840.00	1 / 104	26.70
		664500	3967.50	1 / 1	26.98
	16-QAM	647500	3712.50	1 / 104	26.17
		656000	3840.00	1 / 104	25.83
		664500	3967.50	1 / 1	26.24
20 MHz	$\pi/2$ BPSK	647334	3710.01	1 / 49	26.19
		656000	3840.00	1 / 49	25.65
		664666	3969.99	1 / 1	26.72
	QPSK	647334	3710.01	1 / 49	26.04
		656000	3840.00	1 / 49	25.64
		664666	3969.99	1 / 1	26.82
	16-QAM	647334	3710.01	1 / 49	24.99
		656000	3840.00	1 / 49	24.88
		664666	3969.99	1 / 1	25.76
15 MHz	$\pi/2$ BPSK	647168	3707.52	1 / 1	25.99
		656000	3840.00	1 / 36	25.72
		664832	3972.48	1 / 1	26.82
	QPSK	647168	3707.52	1 / 1	26.16
		656000	3840.00	1 / 36	25.78
		664832	3972.48	1 / 19	26.77
	16-QAM	647168	3707.52	1 / 1	25.17
		656000	3840.00	1 / 36	24.75
		664832	3972.48	1 / 1	25.89
10 MHz	$\pi/2$ BPSK	647000	3705.00	1 / 1	25.91
		656000	3840.00	1 / 22	25.47
		664332	3975.00	1 / 1	26.74
	QPSK	647000	3705.00	1 / 12	26.05
		656000	3840.00	1 / 22	25.56
		664332	3975.00	1 / 1	26.81
	16-QAM	647000	3705.00	1 / 12	25.01
		656000	3840.00	1 / 22	24.32
		664332	3975.00	1 / 1	25.83

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Table 6-44
NR Band 77 (DoD) Power Class 2 Conducted Powers (100MHz through 50MHz)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	633334	3500.01	1 / 136	26.56
	QPSK	633334	3500.01	1 / 136	26.57
	16-QAM	633334	3500.01	1 / 136	25.55
	$\pi/2$ BPSK	633000	3495.00	1 / 243	26.52
		633334	3500.01	1 / 122	26.55
		633666	3504.99	1 / 122	26.54
	QPSK	633000	3495.00	1 / 122	26.54
		633334	3500.01	1 / 122	26.56
		633666	3504.99	1 / 122	26.69
	16-QAM	633000	3495.00	1 / 122	25.35
		633334	3500.01	1 / 122	25.49
		633666	3504.99	1 / 122	25.32
	$\pi/2$ BPSK	632668	3490.02	1 / 1	26.57
		633334	3500.01	1 / 108	26.63
		634000	3510.00	1 / 215	26.57
	QPSK	632668	3490.02	1 / 1	26.54
		633334	3500.01	1 / 1	26.63
		634000	3510.00	1 / 108	26.57
	16-QAM	632668	3490.02	1 / 1	25.12
		633334	3500.01	1 / 1	25.63
		634000	3510.00	1 / 215	25.40
	$\pi/2$ BPSK	632334	3485.01	1 / 94	26.73
		633334	3500.01	1 / 1	26.62
		634332	3514.98	1 / 1	26.67
	QPSK	632334	3485.01	1 / 1	26.87
		633334	3500.01	1 / 1	26.58
		634332	3514.98	1 / 1	26.85
	16-QAM	632334	3485.01	1 / 1	25.98
		633334	3500.01	1 / 1	25.75
		634332	3514.98	1 / 1	25.70
90 MHz	$\pi/2$ BPSK	632000	3480.00	1 / 81	26.96
		633334	3500.01	1 / 81	26.85
		634666	3519.99	1 / 81	26.81
	QPSK	632000	3480.00	1 / 81	26.89
		633334	3500.01	1 / 81	26.98
		634666	3519.99	1 / 81	26.87
	16-QAM	632000	3480.00	1 / 81	26.10
		633334	3500.01	1 / 81	25.82
		634666	3519.99	1 / 81	26.10
	$\pi/2$ BPSK	631668	3475.02	1 / 1	26.96
		633334	3500.01	1 / 1	26.91
		635000	3525.00	1 / 1	26.92
	QPSK	631668	3475.02	1 / 1	26.96
		633334	3500.01	1 / 1	26.96
		635000	3525.00	1 / 1	26.85
	16-QAM	631668	3475.02	1 / 1	25.85
		633334	3500.01	1 / 1	26.01
	$\pi/2$ BPSK	632000	3480.00	1 / 81	26.96
		633334	3500.01	1 / 81	26.85
		634666	3519.99	1 / 81	26.81
	QPSK	632000	3480.00	1 / 81	26.89
		633334	3500.01	1 / 81	26.98
		634666	3519.99	1 / 81	26.87
	16-QAM	632000	3480.00	1 / 81	26.10
		633334	3500.01	1 / 81	25.82
		634666	3519.99	1 / 81	26.10
80 MHz	$\pi/2$ BPSK	632000	3480.00	1 / 81	26.96
		633334	3500.01	1 / 81	26.85
		634666	3519.99	1 / 81	26.81
	QPSK	632000	3480.00	1 / 81	26.89
		633334	3500.01	1 / 81	26.98
		634666	3519.99	1 / 81	26.87
	16-QAM	632000	3480.00	1 / 81	26.10
		633334	3500.01	1 / 81	25.82
		634666	3519.99	1 / 81	26.10
	$\pi/2$ BPSK	631668	3475.02	1 / 1	26.96
		633334	3500.01	1 / 1	26.91
		635000	3525.00	1 / 1	26.92
	QPSK	631668	3475.02	1 / 1	26.96
		633334	3500.01	1 / 1	26.96
		635000	3525.00	1 / 1	26.85
	16-QAM	631668	3475.02	1 / 1	25.85
		633334	3500.01	1 / 1	26.01
	$\pi/2$ BPSK	632000	3480.00	1 / 81	26.96
		633334	3500.01	1 / 81	26.85
		634666	3519.99	1 / 81	26.81
	QPSK	632000	3480.00	1 / 81	26.89
		633334	3500.01	1 / 81	26.98
		634666	3519.99	1 / 81	26.87
	16-QAM	632000	3480.00	1 / 81	26.10
		633334	3500.01	1 / 81	25.82
		634666	3519.99	1 / 81	26.10
70 MHz	$\pi/2$ BPSK	632000	3480.00	1 / 81	26.96
		633334	3500.01	1 / 81	26.85
		634666	3519.99	1 / 81	26.81
	QPSK	632000	3480.00	1 / 81	26.89
		633334	3500.01	1 / 81	26.98
		634666	3519.99	1 / 81	26.87
	16-QAM	632000	3480.00	1 / 81	26.10
		633334	3500.01	1 / 81	25.82
		634666	3519.99	1 / 81	26.10
	$\pi/2$ BPSK	631668	3475.02	1 / 1	26.96
		633334	3500.01	1 / 1	26.91
		635000	3525.00	1 / 1	26.92
	QPSK	631668	3475.02	1 / 1	26.96
		633334	3500.01	1 / 1	26.96
		635000	3525.00	1 / 1	26.85
	16-QAM	631668	3475.02	1 / 1	25.85
		633334	3500.01	1 / 1	26.01
	$\pi/2$ BPSK	632000	3480.00	1 / 81	26.96
		633334	3500.01	1 / 81	26.85
		634666	3519.99	1 / 81	26.81
	QPSK	632000	3480.00	1 / 81	26.89
		633334	3500.01	1 / 81	26.98
		634666	3519.99	1 / 81	26.87
	16-QAM	632000	3480.00	1 / 81	26.10
		633334	3500.01	1 / 81	25.82
		634666	3519.99	1 / 81	26.10
60 MHz	$\pi/2$ BPSK	632000	3480.00	1 / 81	26.96
		633334	3500.01	1 / 81	26.85
		634666	3519.99	1 / 81	26.81
	QPSK	632000	3480.00	1 / 81	26.89
		633334	3500.01	1 / 81	26.98
		634666	3519.99	1 / 81	26.87
	16-QAM	632000	3480.00	1 / 81	26.10
		633334	3500.01	1 / 81	25.82
		634666	3519.99	1 / 81	26.10
	$\pi/2$ BPSK	631668	3475.02	1 / 1	26.96
		633334	3500.01	1 / 1	26.91
		635000	3525.00	1 / 1	26.92
	QPSK	631668	3475.02	1 / 1	26.96
		633334	3500.01	1 / 1	26.96
		635000	3525.00	1 / 1	26.85
	16-QAM	631668	3475.02	1 / 1	25.85
		633334	3500.01	1 / 1	26.01
	$\pi/2$ BPSK	632000	3480.00	1 / 81	26.96
		633334	3500.01	1 / 81	26.85
		634666	3519.99	1 / 81	26.81
	QPSK	632000	3480.00	1 / 81	26.89
		633334	3500.01	1 / 81	26.98
		634666	3519.99	1 / 81	26.87
	16-QAM	632000	3480.00	1 / 81	26.10
		633334	3500.01	1 / 81	25.82
		634666	3519.99	1 / 81	26.10
50 MHz	$\pi/2$ BPSK	632000	3480.00	1 / 81	26.96
		633334	3500.01	1 / 81	26.85
		634666	3519.99	1 / 81	26.81
	QPSK	632000	3480.00	1 / 81	26.89
		633334	3500.01	1 / 81	26.98
		634666	3519.99	1 / 81	26.87
	16-QAM	632000	3480.00	1 / 81	26.10
		633334	3500.01	1 / 81	25.82
		634666	3519.99	1 / 81	26.10
	$\pi/2$ BPSK	631668	3475.02	1 / 1	26.96
		633334	3500.01	1 / 1	26.91
		635000	3525.00	1 / 1	26.92
	QPSK	631668	3475.02	1 / 1	26.96
		633334	3500.01	1 / 1	26.96
		635000	3525.00	1 / 1	26.85
	16-QAM	631668	3475.02	1 / 1	25.85
		633334	3500.01	1 / 1	26.01
	$\pi/2$ BPSK	632000	3480.00	1 / 81	26.96
		633334	3500.01	1 / 81	26.85
		634666	3519.99	1 / 81	26.81
	QPSK	632000	3480.00	1 / 81	26.89
		633334	3500.01	1 / 81	26.98
		634666	3519.99	1 / 81	26.87
	16-QAM	632000	3480.00	1 / 81	26.10
		633334	3500.01	1 / 81	25.82
		634666	3519.99	1 / 81	26.10

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Table 6-45
NR Band 77 (DoD) Power Class 2 Conducted Powers (40MHz through 10MHz)

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
40 MHz	$\pi/2$ BPSK	631334	3470.01	1 / 1	26.93
		633334	3500.01	1 / 1	26.86
		635332	3529.98	1 / 104	26.93
	QPSK	631334	3470.01	1 / 1	26.96
		633334	3500.01	1 / 1	26.88
		635332	3529.98	1 / 1	26.74
	16-QAM	631334	3470.01	1 / 1	25.59
		633334	3500.01	1 / 1	26.01
		635332	3529.98	1 / 104	25.74
30 MHz	$\pi/2$ BPSK	631000	3465.00	1 / 1	26.90
		633334	3500.01	1 / 39	26.79
		635666	3534.99	1 / 1	26.73
	QPSK	631000	3465.00	1 / 1	26.93
		633334	3500.01	1 / 1	26.73
		635666	3534.99	1 / 39	26.81
	16-QAM	631000	3465.00	1 / 1	26.21
		633334	3500.01	1 / 39	25.87
		635666	3534.99	1 / 39	25.39
25 MHz	$\pi/2$ BPSK	630834	3462.51	1 / 1	26.92
		633334	3500.01	1 / 63	26.90
		635832	3537.48	1 / 63	26.85
	QPSK	630834	3462.51	1 / 63	26.96
		633334	3500.01	1 / 1	26.80
		635832	3537.48	1 / 63	26.75
	16-QAM	630834	3462.51	1 / 63	26.28
		633334	3500.01	1 / 63	25.73
		635832	3537.48	1 / 63	26.12
20 MHz	$\pi/2$ BPSK	630668	3460.02	1 / 25	26.72
		633334	3500.01	1 / 1	26.77
		636000	3540.00	1 / 1	26.63
	QPSK	630668	3460.02	1 / 1	26.92
		633334	3500.01	1 / 1	26.69
		636000	3540.00	1 / 49	26.59
	16-QAM	630668	3460.02	1 / 1	25.27
		633334	3500.01	1 / 1	25.52
		636000	3540.00	1 / 1	25.77
15 MHz	$\pi/2$ BPSK	630500	3457.50	1 / 36	26.95
		633334	3500.01	1 / 36	26.87
		636166	3542.49	1 / 36	26.86
	QPSK	630500	3457.50	1 / 19	26.92
		633334	3500.01	1 / 1	26.86
		636166	3542.49	1 / 1	26.84
	16-QAM	630500	3457.50	1 / 36	25.89
		633334	3500.01	1 / 36	25.61
		636166	3542.49	1 / 36	25.91
10 MHz	$\pi/2$ BPSK	630334	3455.01	1 / 22	26.84
		633334	3500.01	1 / 22	26.77
		636332	3544.98	1 / 22	26.82
	QPSK	630334	3455.01	1 / 22	26.71
		633334	3500.01	1 / 12	26.95
		636332	3544.98	1 / 1	26.74
	16-QAM	630334	3455.01	1 / 22	25.71
		633334	3500.01	1 / 12	25.47
		636332	3544.98	1 / 22	25.85

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Table 6-46
2.4GHz 802.11b WLAN Conducted Powers

Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	17.26
2417	2	17.25
2437	6	17.84
2457	10	17.38
2462	11	17.44

Table 6-47
2.4GHz 802.11g WLAN Conducted Powers

Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	16.12
2417	2	16.15
2437	6	16.69
2457	10	16.82
2462	11	16.37

Table 6-48
2.4GHz 802.11n WLAN Conducted Powers

Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	16.22
2417	2	16.35
2437	6	16.47
2457	10	16.44
2462	11	16.57

Table 6-49
2.4GHz 802.11ac WLAN Conducted Powers

Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	16.19
2417	2	16.27
2437	6	16.40
2457	10	16.37
2462	11	16.56

Table 6-50
2.4GHz 802.11ax SU WLAN Conducted Powers

Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	16.79
2417	2	16.86
2437	6	16.99
2457	10	16.96
2462	11	16.51

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Table 6-51
5GHz 20MHz BW 802.11a WLAN Conducted Powers

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1	5180	36	16.21
	5200	40	16.37
	5220	44	16.54
	5240	48	16.92
UNII-2A	5260	52	15.52
	5280	56	15.07
	5300	60	15.74
	5320	64	15.89
UNII-2C	5500	100	16.68
	5600	120	16.29
	5620	124	16.20
	5720	144	16.73
UNII-3	5745	149	16.34
	5785	157	16.99
	5825	165	16.43
UNII-4	5845	169	15.74
	5865	173	15.26
	5885	177	15.89

Table 6-52
5GHz 20MHz BW 802.11n WLAN Conducted Powers

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1	5180	36	15.23
	5200	40	15.39
	5220	44	15.41
	5240	48	15.38
UNII-2A	5260	52	15.66
	5280	56	14.54
	5300	60	14.66
	5320	64	15.34
UNII-2C	5500	100	15.59
	5620	124	15.19
	5720	144	15.66
UNII-3	5745	149	15.33
	5785	157	15.86
	5825	165	15.44
UNII-4	5845	169	15.15
	5865	173	14.21
	5885	177	14.44

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Table 6-53
5GHz 20MHz BW 802.11ac WLAN Conducted Powers

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1	5180	36	15.14
	5200	40	15.23
	5220	44	15.36
	5240	48	15.78
UNII-2A	5260	52	14.45
	5280	56	14.45
	5300	60	14.62
	5320	64	15.29
UNII-2C	5500	100	15.48
	5620	124	15.16
	5720	144	15.65
UNII-3	5745	149	15.30
	5785	157	15.79
	5825	165	15.41
UNII-4	5845	169	15.15
	5865	173	14.55
	5885	177	14.79

Table 6-54
5GHz 20MHz BW 802.11ax WLAN Conducted Powers

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1	5180	36	15.44
	5200	40	15.61
	5220	44	15.60
	5240	48	15.98
UNII-2A	5260	52	14.21
	5280	56	14.27
	5300	60	14.89
	5320	64	15.02
UNII-2C	5500	100	15.75
	5600	120	15.49
	5620	124	15.41
	5720	144	15.92
UNII-3	5745	149	15.55
	5785	157	15.62
	5825	165	15.66
UNII-4	5845	169	14.92
	5865	173	14.25
	5885	177	14.69

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Table 6-55
5GHz 40MHz BW 802.11n WLAN Conducted Powers

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1	5190	38	14.01
	5230	46	14.86
UNII-2A	5270	54	14.01
	5310	62	14.16
UNII-2C	5510	102	14.97
	5590	118	14.67
	5630	126	14.45
	5710	142	14.99
UNII-3	5755	151	14.44
	5795	159	14.74
UNII-4	5835	167	14.23
	5875	175	14.21

Table 6-56
5GHz 40MHz BW 802.11ac WLAN Conducted Powers

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1	5190	38	14.01
	5230	46	14.84
UNII-2A	5270	54	13.64
	5310	62	14.11
UNII-2C	5510	102	14.95
	5590	118	14.59
	5630	126	14.40
	5710	142	14.67
UNII-3	5755	151	14.41
	5795	159	14.68
UNII-4	5835	167	14.18
	5875	175	13.56

Table 6-57
5GHz 40MHz BW 802.11ax WLAN Conducted Powers

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1	5190	38	14.76
	5230	46	14.60
UNII-2A	5270	54	13.87
	5310	62	14.38
UNII-2C	5510	102	14.70
	5590	118	14.81
	5630	126	14.66
	5710	142	14.94
UNII-3	5755	151	14.75
	5795	159	14.51
UNII-4	5835	167	14.95
	5875	175	13.27

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Table 6-58
5GHz 80MHz BW 802.11ac WLAN Conducted Powers

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1	5210	42	14.03
UNII-2A	5290	58	13.71
UNII-2C	5530	106	13.94
	5610	122	14.51
	5690	138	14.65
UNII-3	5775	155	14.89
UNII-4	5885	171	13.39

Table 6-59
5GHz 80MHz BW 802.11ax WLAN Conducted Powers

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1	5210	42	14.29
UNII-2A	5290	58	13.40
UNII-2C	5530	106	14.62
	5610	122	14.67
	5690	138	14.79
UNII-3	5775	155	14.56
UNII-4	5885	171	13.42

Table 6-60
5GHz 160MHz BW 802.11ac WLAN Conducted Powers

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1/2A	5250	50	13.59
UNII-2C	5570	114	13.39
UNII-3/4	5815	163	13.55

Table 6-61
5GHz 160MHz BW 802.11ax WLAN Conducted Powers

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]
UNII-1/2A	5250	50	13.45
UNII-2C	5570	114	13.16
UNII-3/4	5815	163	13.31

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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	34.00	1.00	PASS
GSM - GSM1900	31.00	1.00	PASS
GSM - EDGE850	27.50	7.50	PASS
GSM - EDGE1900	26.30	5.70	PASS
UMTS - RMC	25.00	10.00	PASS
UMTS - AMR	24.50	10.50	PASS
UMTS - HSPA	24.50	10.50	PASS
LTE FDD	25.00	10.00	PASS
LTE TDD - Band 41 (PC3)	24.00	7.00	PASS
LTE TDD - Band 48	22.00	9.00	PASS
LTE TDD - Uplink Carrier Aggregation	22.00	9.00	PASS
NR FDD	25.00	10.00	PASS
NR TDD - n41 PC2	27.00	4.00	PASS
NR TDD - n48	22.00	9.00	PASS
NR TDD - n77 PC2	28.00	3.00	PASS
WIFI - 2.4GHz	21.00	10.00	PASS
WIFI - 5GHz	20.00	11.00	PASS
Simultaneous 2.4GHz and 5GHz WIFI Operations*	23.50	7.50	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.

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8. EQUIPMENT LIST

Table 8-1
Equipment List

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Keysight Technologies	N9020A	MXA Signal Analyzer	3/22/2024	Annual	3/22/2025	US46470561
Amplifier Research	15S1G6	Amplifier	N/A	CBT*	N/A	433978
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	1827528
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	Biennial	8/9/2025	162125
Rohde & Schwarz	CMW500	Radio Communication Tester	8/10/2023	Biennial	8/10/2025	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	
Combined Standard Uncertainty (k=1)						0.66	16.3%
Expanded Uncertainty [95% confidence]						1.31	32.6%
Expanded Uncertainty [95% confidence] on Field						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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