



HAC RF EMISSIONS TEST REPORT

**FCC 47 CFR § 20.19
ANSI C63.19-2019**

For
PHONE

**FCC ID: A4RGZC4K
Model Name: GZC4K & GQ57S**

**Report Number: 15107858-S8V3
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Prepared for
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CERT #0751.05

Revision History

Rev.	Date	Revisions	Revised By
V1	4/30/2024	Initial Issue	--
V2	5/22/2024	Section 4: Added Power mode column Section 7: Added Statement	Coltyce Sanders
V3	5/29/2024	Section 4: Added Note	

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1. Attestation of Test Results



Applicant Name	GOOGLE LLC
FCC ID	A4RGZC4K
Model Name	GZC4K & GQ57S
Difference in Model Name	Model GQ57S is electrically identical to Model GZC4K. Two model numbers are allocated for marketing and logistic purposes. Model GZC4K was used for all final testing.
Applicable Standards	FCC 47 CFR § 20.19 ANSI C63.19-2019
Date Tested	4/15/2024
Test Results	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested can demonstrate compliance with the requirements as documented in this report.

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not considered unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the U.S. Government, or any agency of the U.S. government.

Approved & Released By: 	Prepared By: 
Devin Chang Senior Laboratory Engineer UL Verification Services Inc.	Coltyce Sanders Staff Laboratory Engineer UL Verification Services Inc.

2. Test Methodology

The tests documented in this report were performed in accordance with ANSI C63.19-2019 Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids and FCC Published procedure:

- KDB 285076 D01 HAC Guidance v06r04
- KDB 285076 D03 HAC FAQ v01r06
- TCB workshop updates

3. Facilities and Accreditation

UL Verification Services Inc. is accredited by A2LA, Certificate Number 0751.05

4. Air Interfaces and Operating Modes

Air Interface	Bands (MHz)	Type	C63.19 Tested ¹	Simultaneous Transmitter	Name of Voice Service	Power Mode ³	Power Reduction
GSM	850	VO	No	Wi-Fi 2.4G, Wi-Fi 5/6G, BT, 802.15.4	CMRS	Index 1	N/A
	1900						N/A
	GPRS/EDGE	DT/VD	No	Wi-Fi 2.4G, Wi-Fi 5/6G, BT, 802.15.4	Google Meet	Index 1	N/A
W-CDMA (UMTS)	850	VO	No	Wi-Fi 2.4G, Wi-Fi 5/6G, BT, 802.15.4	CMRS	Index 1	N/A
	1700						
	1900	VD	No	Wi-Fi 2.4G, Wi-Fi 5/6G, BT, 802.15.4	Google Meet	Index 1	N/A
LTE - FDD	600 (B71)	VD	No	5G NR, Wi-Fi 2.4G, Wi-Fi 5/6G, BT, 802.15.4	CMRS Google Meet	Index 1	N/A
	700 (B12/13/14/17)						
	850 (B5/26)						
	1700 (B4/66)						
	1900 (B2/25)						
	2300 (B30)						
2500 (B7)							
LTE - TDD	2600 (B38/41)	VD	No	5G NR, Wi-Fi 2.4G, Wi-Fi 5/6G, BT, 802.15.4	CMRS Google Meet	Index 1	N/A
	3600 (B48)						
5G NR(FR1) FDD	600 (n71)	VD	No	LTE, Wi-Fi 2.4G, Wi-Fi 5/6G, BT, 802.15.4	CMRS Google Meet	Index 1	N/A
	700 (n12/n14)						
	850 (n5/n26)						
	1700 (n66)						
	1900 (n2/n25)						
	2300 (n30)						
2500 (n7)							
5G NR(FR1) TDD	2600 (n38/n41)	VD	No	LTE, Wi-Fi 2.4G, Wi-Fi 5/6G, BT, 802.15.4	CMRS Google Meet	Index 1	N/A
	3500 (n78 Block A/B/C)						
	3700 (n77 Block A/B/C)						
Wi-Fi	2450	VD	No	WWAN, Wi-Fi 5/6G	CMRS Google Meet	Index 0	N/A
	U-NII-1						
	U-NII-2A						
	U-NII-2C						
	U-NII-3	VD	No	WWAN, BT, Wi-Fi 2.4G, 802.15.4	CMRS Google Meet	Index 0	N/A
	U-NII-4						
	U-NII-5 (SL, LPI)						
	U-NII-6 (LPI)						
U-NII-7 (SL, LPI)	VD	No ²	WWAN, BT, Wi-Fi 2.4G, 802.15.4	CMRS Google Meet	N/A	N/A	
U-NII-8 (LPI)							

Note:

1. Evaluated for RF audio interference power level.
2. Supported Frequency > 6GHz. ANSI C63.19 2019 only requires HAC evaluations for Frequencies < 6GHz.
3. For all air interfaces, the declared maximum output across all power tables, including held-to-head, off-body and body-worn, was used for the RF_{AIRL} evaluation. The declared maximum output power is Index 1 for WWAN operating modes and Index 0 for WLAN operating modes.

Type
 VO: Legacy Cellular Voice Service
 DT: Digital Transport only (no voice)
 VD: IP Voice Service over Digital Transport
 CMRS: Commercial Mobile Radio Service

Air Interfaces and Operating Modes

Air Interface	Bands (MHz)	Type	C63.19 Tested	Simultaneous Transmitter	Name of Voice Service	Power Mode	Power Reduction
802.15.4	2450	DT	N/A	WWAN, Wi-Fi 5/6G	N/A	N/A	N/A
BT	2450	DT	N/A	WWAN, Wi-Fi 5/6G	NA	N/A	N/A
NTN (Non-Terrestrial Networks)	(1600) L-Band	DT	N/A	N/A	N/A	N/A	N/A
	(2000) S-Band						
NFC	13	DT	N/A	WWAN, BT, Wi-Fi 2.4G, Wi-Fi 5/6G, 802.15.4	N/A	N/A	N/A
UWB (Ultra-Wideband)	6500	DT	N/A	N/A	N/A	N/A	N/A
	8000						

Type
VO: Legacy Cellular Voice Service
DT: Digital Transport only (no voice)
VD: IP Voice Service over Digital Transport
CMRS: Commercial Mobile Radio Service

5. Modulation Interference Factor (MIF)

A WD's interference potential is a function of both the WD's average in-use near-field field strength and of the signal's audio-frequency amplitude modulation characteristics. The portion of the interference potential attributable to the modulation characteristic can be evaluated independently of any particular WD. This evaluation of this interference potential relative to a signal's average field strength is described in D.7 and is termed its Modulation Interference Factor (MIF). The MIF may be determined through analysis and simulation, allowing evaluation of an RF technology's RF interference potential in advance of actual product development.

The evaluation method or the MIF is defined in ANSI C63.19 section D.7. MIF values were not tested by a probe or as specified in the standards but are based on analysis provided by SPEAG for all the air interfaces (GSM, WCDMA, LTE, 5G NR, and Wi-Fi). The data included in this report are for the worst case operating modes. The UIDs used are listed below:

UID	Communication System Name	MIF (dB)
10021-DAC	GSM-FDD (TDMA, GMSK)	3.63
10023-DAC	GPRS-FDD (TDMA, GMSK, TN 0)	3.80
10024-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	1.15
10027-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	-0.67
10028-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	-2.05
10011-CAC	UMTS-FDD (WCDMA)	-27.23
10225-CAC	UMTS-FDD (HSPA+)	-20.39
10170-CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16QAM)	-9.76
10182-CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16QAM)	-9.76
10176-CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16QAM)	-9.76
10173-CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16QAM)	-1.44
10235-CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16QAM)	-1.44
10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	-2.02
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	0.12
10069-CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	-3.15
10317-AAE	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	-9.82
10591-AAD	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	-5.59
10636-AAE	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	-5.56
10671-AAC	IEEE 802.11ax/be (20MHz, MCS0, 90pc duty cycle)	-5.58
10797-AAF	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	-14.32
10803-AAF	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	-14.38
10866-AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	-16.69
10898-AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	-16.68
10903-AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	-16.68
10929-AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	-15.06
10930-AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	-15.06
10931-AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	-15.06
10932-AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	-15.06
10933-AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	-15.06
10934-AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	-15.07
10935-AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	-15.07

Refer to Appendix B for RF-E UID Specifications summary provided by SPEAG.

6. RF Emissions Measurement Criteria

The WD's conducted power must be at or below either the stated $RF_{A IPL}$ (Table 4.1) or the stated peak power level (Table 4.2), or the average near-field emissions over the measurement area must be at or below the stated $RF_{A IL}$ (Table 4.3), or the stated peak field strength (Table 4.4). The WD may demonstrate compliance by meeting any of these four requirements, but it must do so in each of its operating bands at its established worst-case normal speech-mode operating condition.

Table 4.1 - Wireless device RF audio interference power level

Frequency Range (MHz)	$RF_{A IPL}$ (dBm)
< 960	29
960 – 2000	26
> 2000	25

Table 4.2 - Wireless device RF peak power level

Frequency Range (MHz)	$RF_{Peak Power}$ (dBm)
< 960	35
960 – 2000	32
> 2000	31

Table 4.3 - Wireless device RF audio interference level

Frequency Range (MHz)	$RF_{A IL}$ [dB(V/m)]
≤ 960	39
960 – 2000	36
> 2000	35

Table 4.4 - Wireless device RF peak near-field level

Frequency Range (MHz)	RF_{peak} [dB(V/m)]
≤ 960	45
960 – 2000	42
> 2000	41

7. Evaluation for RF Audio Interference Power Level (RF_{AIPL})

An RF air interface technology of a device is exempt from testing when its average antenna input power plus its MIF is at or below the RF_{AIPL} listed in the table below (from ANSI C63.19 2019 §4.7) for any of its operating modes. If a device supports multiple RF air interfaces, each RF air interface shall be evaluated individually.

Table 4.1—Wireless device RF audio interference power level

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

For all air interfaces the declared maximum output across all power tables, including held-to-head, off-body and body-worn, was used for the RF_{AIPL} evaluation. The declared maximum output power is Index 1 for WWAN operating modes and Index 0 for WLAN operating modes. Using the declared maximum output power is more conservative for RF_{AIPL} evaluation since the average antenna input power will never exceed this power level for any operating mode.

ANT 0

Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Average Burst Output Power (dBm)	Duty Cycle	Average Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{AIPL} (dBm)	RF _{AIPL} Limit (dBm)	HAC Tested
GSM850	824.2 - 848.8	TDMA	GMSK	NA	NA	33.5	12.5%	24.5	3.80	28.3	29	No
GSM850	824.2 - 848.8	TDMA	GMSK	NA	NA	32.3	25.0%	26.3	1.15	27.4	29	No
GSM850	824.2 - 848.8	TDMA	GMSK	NA	NA	31.3	37.5%	27.0	-0.67	26.4	29	No
GSM850	824.2 - 848.8	TDMA	GMSK	NA	NA	30.3	50.0%	27.3	-2.05	25.2	29	No
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	30.4	12.5%	21.4	3.80	25.2	26	No
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	28.9	25.0%	22.9	1.15	24.0	26	No
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	28.4	37.5%	24.1	-0.67	23.5	26	No
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	27.4	50.0%	24.4	-2.05	22.3	26	No
W-CDMA Band II	1850 - 1910	FDD	HSPA+	NA	NA	25.5	100.0%	25.5	-20.39	5.1	26	No
W-CDMA Band IV	1710 - 1755	FDD	HSPA+	NA	NA	25.5	100.0%	25.5	-20.39	5.1	26	No
W-CDMA Band V	824 - 849	FDD	HSPA+	NA	NA	25.5	100.0%	25.5	-20.39	5.1	29	No
LTE Band 2	1850 - 1910	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	26	No
LTE Band 4	1710 - 1755	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	26	No
LTE Band 5	824 - 849	FDD SC-FDMA	16-QAM	10	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
LTE Band 7	2500 - 2570	FDD SC-FDMA	16-QAM	20	NA	24.9	100.0%	24.9	-9.76	15.1	25	No
LTE Band 12	699 - 716	FDD SC-FDMA	16-QAM	10	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
LTE Band 13	777 - 787	FDD SC-FDMA	16-QAM	10	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
LTE Band 14	788 - 798	FDD SC-FDMA	16-QAM	10	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
LTE Band 17	704 - 716	FDD SC-FDMA	16-QAM	10	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
LTE Band 25	1850 - 1915	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	26	No
LTE Band 26	814 - 849	FDD SC-FDMA	16-QAM	15	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
LTE Band 30	2305 - 2315	FDD SC-FDMA	16-QAM	10	NA	24.8	100.0%	24.8	-9.76	15.0	25	No
LTE Band 38 (PC3)	2570 - 2620	TDD SC-FDMA	16-QAM	20	NA	24.9	63.3%	22.9	-1.44	21.5	25	No
LTE Band 38 (PC2)	2570 - 2620	TDD SC-FDMA	16-QAM	20	NA	26.8	43.3%	23.2	-1.44	21.7	25	No
LTE Band 41 (PC3)	2496 - 2690	TDD SC-FDMA	16-QAM	20	NA	24.9	63.3%	22.9	-1.44	21.5	25	No
LTE Band 41 (PC2)	2496 - 2690	TDD SC-FDMA	16-QAM	20	NA	26.8	43.3%	23.2	-1.44	21.7	25	No
LTE Band 66	2110 - 2200	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	25	No
LTE Band 71	617 - 652	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
5G NR Band n2	1850 - 1910	FDD DFT-s-OFDM	QPSK	40	15	25.0	100.0%	25.0	-15.07	9.9	26	No
5G NR Band n5	824 - 849	FDD DFT-s-OFDM	QPSK	25	15	25.0	100.0%	25.0	-15.06	9.9	29	No
5G NR Band n7	2500 - 2570	FDD DFT-s-OFDM	QPSK	50	15	24.9	100.0%	24.9	-15.07	9.8	25	No
5G NR Band n12	699 - 716	FDD DFT-s-OFDM	QPSK	15	15	25.0	100.0%	25.0	-15.06	9.9	29	No
5G NR Band n14	788 - 798	FDD DFT-s-OFDM	QPSK	10	15	25.0	100.0%	25.0	-15.06	9.9	29	No
5G NR Band n25	1850 - 1915	FDD DFT-s-OFDM	QPSK	40	15	25.0	100.0%	25.0	-15.07	9.9	26	No
5G NR Band n26	814 - 849	FDD DFT-s-OFDM	QPSK	30	15	25.0	100.0%	25.0	-15.06	9.9	29	No
5G NR Band n30	2305 - 2315	FDD DFT-s-OFDM	QPSK	10	15	24.8	100.0%	24.8	-15.06	9.7	25	No
5G NR Band n38	2570 - 2620	TDD DFT-s-OFDM	QPSK	40	30	24.9	100.0%	24.9	-16.68	8.2	25	No
5G NR Band n38	2570 - 2620	TDD CP-OFDM	QPSK	40	30	24.9	100.0%	24.9	-14.32	10.6	25	No
5G NR Band n41 PC3	2496 - 2690	TDD DFT-s-OFDM	QPSK	100	30	24.9	100.0%	24.9	-16.69	8.2	25	No
5G NR Band n41 PC3	2496 - 2690	TDD CP-OFDM	QPSK	100	30	24.9	100.0%	24.9	-14.38	10.5	25	No
5G NR Band n41 PC2	2496 - 2690	TDD DFT-s-OFDM	QPSK	100	30	26.8	50.0%	23.8	-16.69	7.1	25	No
5G NR Band n41 PC2	2496 - 2690	TDD CP-OFDM	QPSK	100	30	26.8	50.0%	23.8	-14.38	9.4	25	No
5G NR Band n41 PC1.5	2496 - 2690	TDD DFT-s-OFDM	QPSK	100	30	26.8	25.0%	20.8	-16.69	4.1	25	No
5G NR Band n41 PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	26.8	25.0%	20.8	-14.38	6.4	25	No
5G NR Band n66	2110 - 2200	FDD DFT-s-OFDM	QPSK	40	15	25.0	100.0%	25.0	-15.07	9.9	25	No
5G NR Band n71	617 - 652	FDD DFT-s-OFDM	QPSK	30	15	25.0	100.0%	25.0	-15.06	9.9	29	No

Note(s):

- Average Antenna Input power = Average Frame power in order to account for the Operating Duty cycles for each respective Air Interface.
- Worst Case MIF = the Highest MIF value for each respective RF Air Interface.
- Average Antenna Input power plus MIF is below RF_{AIPL} therefore is compliant to RF_{AIPL} requirements.

ANT 1

Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Average Burst Output Power (dBm)	Duty Cycle	Average Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{AIFL} (dBm)	RF _{AIFL} Limit (dBm)	HAC Tested
GSM850	824.2 - 848.8	TDMA	GMSK	NA	NA	33.5	12.5%	24.5	3.80	28.3	29	No
GSM850	824.2 - 848.8	TDMA	GMSK	NA	NA	32.3	25.0%	26.3	1.15	27.4	29	No
GSM850	824.2 - 848.8	TDMA	GMSK	NA	NA	31.3	37.5%	27.0	-0.67	26.4	29	No
GSM850	824.2 - 848.8	TDMA	GMSK	NA	NA	30.3	50.0%	27.3	-2.05	25.2	29	No
W-CDMA Band V	824 - 849	FDD	HSPA+	NA	NA	25.5	100.0%	25.5	-20.39	5.1	29	No
LTE Band 2	1850 - 1910	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	26	No
LTE Band 4	1710 - 1755	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	26	No
LTE Band 5	824 - 849	FDD SC-FDMA	16-QAM	10	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
LTE Band 12	699 - 716	FDD SC-FDMA	16-QAM	10	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
LTE Band 13	777 - 787	FDD SC-FDMA	16-QAM	10	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
LTE Band 14	788 - 798	FDD SC-FDMA	16-QAM	10	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
LTE Band 17	704 - 716	FDD SC-FDMA	16-QAM	10	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
LTE Band 25	1850 - 1915	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	26	No
LTE Band 26	814 - 849	FDD SC-FDMA	16-QAM	15	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
LTE Band 66	2110 - 2200	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	25	No
LTE Band 71	617 - 652	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	29	No
5G NR Band n2	1850 - 1910	FDD DFT-s-OFDM	QPSK	40	15	25.0	100.0%	25.0	-15.07	9.9	26	No
5G NR Band n5	824 - 849	FDD DFT-s-OFDM	QPSK	25	15	25.0	100.0%	25.0	-15.06	9.9	29	No
5G NR Band n12	699 - 716	FDD DFT-s-OFDM	QPSK	15	15	25.0	100.0%	25.0	-15.06	9.9	29	No
5G NR Band n14	788 - 798	FDD DFT-s-OFDM	QPSK	10	15	25.0	100.0%	25.0	-15.06	9.9	29	No
5G NR Band n25	1850 - 1915	FDD DFT-s-OFDM	QPSK	40	15	25.0	100.0%	25.0	-15.07	9.9	26	No
5G NR Band n26	814 - 849	FDD DFT-s-OFDM	QPSK	30	15	25.0	100.0%	25.0	-15.06	9.9	29	No
5G NR Band n38	2570 - 2620	TDD DFT-s-OFDM	QPSK	40	30	25.0	100.0%	25.0	-16.68	8.3	25	No
5G NR Band n38	2570 - 2620	TDD CP-OFDM	QPSK	40	30	25.0	100.0%	25.0	-14.32	10.7	25	No
5G NR Band n41 PC3	2496 - 2690	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n41 PC2	2496 - 2690	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n41 PC2	2496 - 2690	TDD DFT-s-OFDM	QPSK	100	30	26.9	50.0%	23.9	-16.69	7.2	25	No
5G NR Band n41 PC2	2496 - 2690	TDD CP-OFDM	QPSK	100	30	26.9	50.0%	23.9	-14.38	9.5	25	No
5G NR Band n41 PC1.5	2496 - 2690	TDD DFT-s-OFDM	QPSK	100	30	26.9	25.0%	20.9	-16.69	4.2	25	No
5G NR Band n41 PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	26.9	25.0%	20.9	-14.38	6.5	25	No
5G NR Band n66	2110 - 2200	FDD DFT-s-OFDM	QPSK	40	15	25.0	100.0%	25.0	-15.07	9.9	25	No
5G NR Band n71	617 - 652	FDD DFT-s-OFDM	QPSK	30	15	25.0	100.0%	25.0	-15.06	9.9	29	No
5G NR Band n77 Block A PC3	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n77 Block A PC3	3450 - 3550	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n77 Block A PC2	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	26.0	50.0%	23.0	-16.69	6.3	25	No
5G NR Band n77 Block A PC2	3450 - 3550	TDD CP-OFDM	QPSK	100	30	26.0	50.0%	23.0	-14.38	8.6	25	No
5G NR Band n77 Block A PC1.5	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	26.0	25.0%	20.0	-16.69	3.3	25	No
5G NR Band n77 Block A PC1.5	3450 - 3550	TDD CP-OFDM	QPSK	100	30	26.0	25.0%	20.0	-14.38	5.6	25	No
5G NR Band n77 Block B PC3	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n77 Block B PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n77 Block B PC2	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	26.0	50.0%	23.0	-16.69	6.3	25	No
5G NR Band n77 Block B PC2	3550 - 3700	TDD CP-OFDM	QPSK	100	30	26.0	50.0%	23.0	-14.38	8.6	25	No
5G NR Band n77 Block B PC1.5	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	26.0	25.0%	20.0	-16.69	3.3	25	No
5G NR Band n77 Block B PC1.5	3550 - 3700	TDD CP-OFDM	QPSK	100	30	26.0	25.0%	20.0	-14.38	5.6	25	No
5G NR Band n77 Block C PC3	3700 - 3980	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n77 Block C PC3	3700 - 3980	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n77 Block C PC2	3700 - 3980	TDD DFT-s-OFDM	QPSK	100	30	26.0	50.0%	23.0	-16.69	6.3	25	No
5G NR Band n77 Block C PC2	3700 - 3980	TDD CP-OFDM	QPSK	100	30	26.0	50.0%	23.0	-14.38	8.6	25	No
5G NR Band n77 Block C PC1.5	3700 - 3980	TDD DFT-s-OFDM	QPSK	100	30	26.0	25.0%	20.0	-16.69	3.3	25	No
5G NR Band n77 Block C PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	26.0	25.0%	20.0	-14.38	5.6	25	No
5G NR Band n78 Block A PC3	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n78 Block A PC3	3450 - 3550	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n78 Block A PC2	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	26.0	50.0%	23.0	-16.69	6.3	25	No
5G NR Band n78 Block A PC2	3450 - 3550	TDD CP-OFDM	QPSK	100	30	26.0	50.0%	23.0	-14.38	8.6	25	No
5G NR Band n78 Block A PC1.5	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	26.0	25.0%	20.0	-16.69	3.3	25	No
5G NR Band n78 Block A PC1.5	3450 - 3550	TDD CP-OFDM	QPSK	100	30	26.0	25.0%	20.0	-14.38	5.6	25	No
5G NR Band n78 Block B PC3	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n78 Block B PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n78 Block B PC2	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	26.0	50.0%	23.0	-16.69	6.3	25	No
5G NR Band n78 Block B PC2	3550 - 3700	TDD CP-OFDM	QPSK	100	30	26.0	50.0%	23.0	-14.38	8.6	25	No
5G NR Band n78 Block B PC1.5	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	26.0	25.0%	20.0	-16.69	3.3	25	No
5G NR Band n78 Block B PC1.5	3550 - 3700	TDD CP-OFDM	QPSK	100	30	26.0	25.0%	20.0	-14.38	5.6	25	No
5G NR Band n78 Block C PC3	3700 - 3800	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n78 Block C PC3	3700 - 3800	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n78 Block C PC2	3700 - 3800	TDD DFT-s-OFDM	QPSK	100	30	26.0	50.0%	23.0	-16.69	6.3	25	No
5G NR Band n78 Block C PC2	3700 - 3800	TDD CP-OFDM	QPSK	100	30	26.0	50.0%	23.0	-14.38	8.6	25	No
5G NR Band n78 Block C PC1.5	3700 - 3800	TDD DFT-s-OFDM	QPSK	100	30	26.0	25.0%	20.0	-16.69	3.3	25	No
5G NR Band n78 Block C PC1.5	3700 - 3800	TDD CP-OFDM	QPSK	100	30	26.0	25.0%	20.0	-14.38	5.6	25	No

Notes(s):

- Average Antenna Input power = Average Frame power in order to account for the Operating Duty cycles for each respective Air Interface.
- Worst Case MIF = the Highest MIF value for each respective RF Air Interface.
- Average Antenna Input power plus MIF is below RF_{AIFL} therefore is compliant to RF_{AIFL} requirements.

ANT 2

Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Average Burst Output Power (dBm)	Duty Cycle	Average Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{AIFL} (dBm)	RF _{AIFL} Limit (dBm)	HAC Tested
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	30.4	12.5%	21.4	3.80	25.2	26	No
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	28.9	25.0%	22.9	1.15	24.0	26	No
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	28.4	37.5%	24.1	-0.67	23.5	26	No
GSM1900	1850.2 - 1909.8	TDMA	GMSK	NA	NA	27.4	50.0%	24.4	-2.05	22.3	26	No
W-CDMA Band II	1850 - 1910	FDD	HSPA+	NA	NA	25.5	100.0%	25.5	-20.39	5.1	26	No
W-CDMA Band IV	1710 - 1755	FDD	HSPA+	NA	NA	25.5	100.0%	25.5	-20.39	5.1	26	No
LTE Band 2	1850 - 1910	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	26	No
LTE Band 4	1710 - 1755	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	26	No
LTE Band 7	2500 - 2570	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	25	No
LTE Band 25	1850 - 1915	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	26	No
LTE Band 30	2305 - 2315	FDD SC-FDMA	16-QAM	10	NA	24.9	100.0%	24.9	-9.76	15.1	25	No
LTE Band 38 (PC3)	2570 - 2620	TDD SC-FDMA	16-QAM	20	NA	25.0	63.3%	23.0	-1.44	21.6	25	No
LTE Band 38 (PC2)	2570 - 2620	TDD SC-FDMA	16-QAM	20	NA	26.9	43.3%	23.3	-1.44	21.8	25	No
LTE Band 41 (PC3)	2496 - 2690	TDD SC-FDMA	16-QAM	20	NA	25.0	63.3%	23.0	-1.44	21.6	25	No
LTE Band 41 (PC2)	2496 - 2690	TDD SC-FDMA	16-QAM	20	NA	26.9	43.3%	23.3	-1.44	21.8	25	No
LTE Band 66	2110 - 2200	FDD SC-FDMA	16-QAM	20	NA	25.0	100.0%	25.0	-9.76	15.2	25	No
5G NR Band n2	1850 - 1910	FDD DFT-s-OFDM	QPSK	40	15	25.0	100.0%	25.0	-15.07	9.9	26	No
5G NR Band n7	2500 - 2570	FDD DFT-s-OFDM	QPSK	50	15	25.0	100.0%	25.0	-15.07	9.9	25	No
5G NR Band n25	1850 - 1915	FDD DFT-s-OFDM	QPSK	40	15	25.0	100.0%	25.0	-15.07	9.9	26	No
5G NR Band n30	2305 - 2315	FDD DFT-s-OFDM	QPSK	10	15	24.9	100.0%	24.9	-15.06	9.8	25	No
5G NR Band n38	2570 - 2620	TDD DFT-s-OFDM	QPSK	40	30	25.0	100.0%	25.0	-16.68	8.3	25	No
5G NR Band n38	2570 - 2620	TDD CP-OFDM	QPSK	40	30	25.0	100.0%	25.0	-14.32	10.7	25	No
5G NR Band n41 PC3	2496 - 2690	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n41 PC3	2496 - 2690	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n41 PC2	2496 - 2690	TDD DFT-s-OFDM	QPSK	100	30	26.9	50.0%	23.9	-16.69	7.2	25	No
5G NR Band n41 PC2	2496 - 2690	TDD CP-OFDM	QPSK	100	30	26.9	50.0%	23.9	-14.38	9.5	25	No
5G NR Band n41 PC1.5	2496 - 2690	TDD DFT-s-OFDM	QPSK	100	30	26.9	25.0%	20.9	-16.69	4.2	25	No
5G NR Band n41 PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	26.9	25.0%	20.9	-14.38	6.5	25	No
5G NR Band n66	2110 - 2200	FDD DFT-s-OFDM	QPSK	40	15	25.0	100.0%	25.0	-15.07	9.9	25	No

Note(s):

- Average Antenna Input power = Average Frame power in order to account for the Operating Duty cycles for each respective Air Interface.
- Worst Case MIF = the Highest MIF value for each respective RF Air Interface.
- Average Antenna Input power plus MIF is below RF_{AIFL} therefore is compliant to RF_{AIFL} requirements.

ANT 3

Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Average Burst Output Power (dBm)	Duty Cycle	Average Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{AIFL} (dBm)	RF _{AIFL} Limit (dBm)	HAC Tested
802.11b	2402 - 2482	802.11b	DSSS	NA	NA	22.0	100.0%	22.0	-2.02	20.0	25	No
802.11g	2402 - 2482	802.11g	DSSS/OFDM	NA	NA	21.0	100.0%	21.0	0.12	21.1	25	No
802.11n	2402 - 2482	802.11n	MCS0	NA	NA	19.0	100.0%	19.0	-5.59	13.4	25	No
802.11ac	2402 - 2482	802.11ac	MCS0	NA	NA	19.0	100.0%	19.0	-5.56	13.4	25	No
802.11ax	2402 - 2482	802.11ax	MCS0	NA	NA	21.0	100.0%	21.0	-5.58	15.4	25	No
802.11be	2402 - 2482	802.11be	MCS0	NA	NA	21.0	100.0%	21.0	-5.58	15.4	25	No
802.11a/h	5150 - 5250	802.11a/h	OFDM	NA	NA	17.5	100.0%	17.5	-3.15	14.4	25	No
802.11a	5150 - 5250	802.11a	OFDM	NA	NA	17.5	100.0%	17.5	-9.82	7.7	25	No
802.11n	5150 - 5250	802.11n	MCS0	NA	NA	20.0	100.0%	20.0	-5.59	14.4	25	No
802.11ac	5150 - 5250	802.11ac	MCS0	NA	NA	20.0	100.0%	20.0	-5.56	14.4	25	No
802.11ax	5150 - 5250	802.11ax	MCS0	NA	NA	20.0	100.0%	20.0	-5.58	14.4	25	No
802.11be	5150 - 5250	802.11be	MCS0	NA	NA	20.0	100.0%	20.0	-5.58	14.4	25	No
802.11a/h	5250 - 5350	802.11a/h	OFDM	NA	NA	18.0	100.0%	18.0	-3.15	14.9	25	No
802.11a	5250 - 5350	802.11a	OFDM	NA	NA	18.0	100.0%	18.0	-9.82	8.2	25	No
802.11n	5250 - 5350	802.11n	MCS0	NA	NA	19.0	100.0%	19.0	-5.59	13.4	25	No
802.11ac	5250 - 5350	802.11ac	MCS0	NA	NA	19.0	100.0%	19.0	-5.56	13.4	25	No
802.11ax	5250 - 5350	802.11ax	MCS0	NA	NA	18.0	100.0%	18.0	-5.58	12.4	25	No
802.11be	5250 - 5350	802.11be	MCS0	NA	NA	18.0	100.0%	18.0	-5.58	12.4	25	No
802.11a/h	5470 - 5725	802.11a/h	OFDM	NA	NA	18.0	100.0%	18.0	-3.15	14.9	25	No
802.11a	5470 - 5725	802.11a	OFDM	NA	NA	18.0	100.0%	18.0	-9.82	8.2	25	No
802.11n	5470 - 5725	802.11n	MCS0	NA	NA	21.0	100.0%	21.0	-5.59	15.4	25	No
802.11ac	5470 - 5725	802.11ac	MCS0	NA	NA	21.0	100.0%	21.0	-5.56	15.4	25	No
802.11ax	5470 - 5725	802.11ax	MCS0	NA	NA	20.5	100.0%	20.5	-5.58	14.9	25	No
802.11be	5470 - 5725	802.11be	MCS0	NA	NA	20.5	100.0%	20.5	-5.58	14.9	25	No
802.11a/h	5725 - 5825	802.11a/h	OFDM	NA	NA	22.0	100.0%	22.0	-3.15	18.9	25	No
802.11a	5725 - 5825	802.11a	OFDM	NA	NA	22.0	100.0%	22.0	-9.82	12.2	25	No
802.11n	5725 - 5825	802.11n	MCS0	NA	NA	22.0	100.0%	22.0	-5.59	16.4	25	No
802.11ac	5725 - 5825	802.11ac	MCS0	NA	NA	22.0	100.0%	22.0	-5.56	16.4	25	No
802.11ax	5725 - 5825	802.11ax	MCS0	NA	NA	21.5	100.0%	21.5	-5.58	15.9	25	No
802.11be	5725 - 5825	802.11be	MCS0	NA	NA	21.5	100.0%	21.5	-5.58	15.9	25	No
802.11a/h	5835 - 5915	802.11a/h	OFDM	NA	NA	20.5	100.0%	20.5	-3.15	17.4	25	No
802.11a	5835 - 5915	802.11a	OFDM	NA	NA	20.5	100.0%	20.5	-9.82	10.7	25	No
802.11n	5835 - 5915	802.11n	MCS0	NA	NA	21.0	100.0%	21.0	-5.59	15.4	25	No
802.11ac	5835 - 5915	802.11ac	MCS0	NA	NA	21.0	100.0%	21.0	-5.56	15.4	25	No
802.11ax	5835 - 5915	802.11ax	MCS0	NA	NA	21.0	100.0%	21.0	-5.58	15.4	25	No
802.11be	5835 - 5915	802.11be	MCS0	NA	NA	21.0	100.0%	21.0	-5.58	15.4	25	No
802.11a/h	5925 - 6000	802.11a/h	OFDM	NA	NA	21.5	100.0%	21.5	-3.15	18.4	25	No
802.11a	5925 - 6000	802.11a	OFDM	NA	NA	21.5	100.0%	21.5	-9.82	11.7	25	No
802.11ax	5925 - 6000	802.11ax	MCS0	NA	NA	22.0	100.0%	22.0	-5.58	16.4	25	No
802.11be	5925 - 6000	802.11be	MCS0	NA	NA	22.0	100.0%	22.0	-5.58	16.4	25	No

Note(s):

- Average Antenna Input power = Average Frame power in order to account for the Operating Duty cycles for each respective Air Interface.
- Worst Case MIF = the Highest MIF value for each respective RF Air Interface.
- Average Antenna Input power plus MIF is below RF_{AIFL} therefore is compliant to RF_{AIFL} requirements.

ANT 4

Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Average Burst Output Power (dBm)	Duty Cycle	Average Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{AIFL} (dBm)	RF _{AIFL} Limit (dBm)	HAC Tested
802.11b	2402 - 2482	802.11b	DSSS	NA	NA	22.0	100.0%	22.0	-2.02	20.0	25	No
802.11g	2402 - 2482	802.11g	DSSS/OFDM	NA	NA	21.0	100.0%	21.0	0.12	21.1	25	No
802.11n	2402 - 2482	802.11n	MCS0	NA	NA	19.0	100.0%	19.0	-5.59	13.4	25	No
802.11ac	2402 - 2482	802.11ac	MCS0	NA	NA	19.0	100.0%	19.0	-5.56	13.4	25	No
802.11ax	2402 - 2482	802.11ax	MCS0	NA	NA	21.0	100.0%	21.0	-5.58	15.4	25	No
802.11be	2402 - 2482	802.11be	MCS0	NA	NA	21.0	100.0%	21.0	-5.58	15.4	25	No
802.11a/h	5150 - 5250	802.11a/h	OFDM	NA	NA	17.5	100.0%	17.5	-3.15	14.4	25	No
802.11a	5150 - 5250	802.11a	OFDM	NA	NA	17.5	100.0%	17.5	-9.82	7.7	25	No
802.11n	5150 - 5250	802.11n	MCS0	NA	NA	20.0	100.0%	20.0	-5.59	14.4	25	No
802.11ac	5150 - 5250	802.11ac	MCS0	NA	NA	20.0	100.0%	20.0	-5.56	14.4	25	No
802.11ax	5150 - 5250	802.11ax	MCS0	NA	NA	20.0	100.0%	20.0	-5.58	14.4	25	No
802.11be	5150 - 5250	802.11be	MCS0	NA	NA	20.0	100.0%	20.0	-5.58	14.4	25	No
802.11a/h	5250 - 5350	802.11a/h	OFDM	NA	NA	18.0	100.0%	18.0	-3.15	14.9	25	No
802.11a	5250 - 5350	802.11a	OFDM	NA	NA	18.0	100.0%	18.0	-9.82	8.2	25	No
802.11n	5250 - 5350	802.11n	MCS0	NA	NA	19.0	100.0%	19.0	-5.59	13.4	25	No
802.11ac	5250 - 5350	802.11ac	MCS0	NA	NA	19.0	100.0%	19.0	-5.56	13.4	25	No
802.11ax	5250 - 5350	802.11ax	MCS0	NA	NA	18.0	100.0%	18.0	-5.58	12.4	25	No
802.11be	5250 - 5350	802.11be	MCS0	NA	NA	18.0	100.0%	18.0	-5.58	12.4	25	No
802.11a/h	5470 - 5725	802.11a/h	OFDM	NA	NA	18.0	100.0%	18.0	-3.15	14.9	25	No
802.11a	5470 - 5725	802.11a	OFDM	NA	NA	18.0	100.0%	18.0	-9.82	8.2	25	No
802.11n	5470 - 5725	802.11n	MCS0	NA	NA	21.0	100.0%	21.0	-5.59	15.4	25	No
802.11ac	5470 - 5725	802.11ac	MCS0	NA	NA	21.0	100.0%	21.0	-5.56	15.4	25	No
802.11ax	5470 - 5725	802.11ax	MCS0	NA	NA	20.5	100.0%	20.5	-5.58	14.9	25	No
802.11be	5470 - 5725	802.11be	MCS0	NA	NA	20.5	100.0%	20.5	-5.58	14.9	25	No
802.11a/h	5725 - 5825	802.11a/h	OFDM	NA	NA	22.0	100.0%	22.0	-3.15	18.9	25	No
802.11a	5725 - 5825	802.11a	OFDM	NA	NA	22.0	100.0%	22.0	-9.82	12.2	25	No
802.11n	5725 - 5825	802.11n	MCS0	NA	NA	22.0	100.0%	22.0	-5.59	16.4	25	No
802.11ac	5725 - 5825	802.11ac	MCS0	NA	NA	22.0	100.0%	22.0	-5.56	16.4	25	No
802.11ax	5725 - 5825	802.11ax	MCS0	NA	NA	21.5	100.0%	21.5	-5.58	15.9	25	No
802.11be	5725 - 5825	802.11be	MCS0	NA	NA	21.5	100.0%	21.5	-5.58	15.9	25	No
802.11a/h	5835 - 5915	802.11a/h	OFDM	NA	NA	20.5	100.0%	20.5	-3.15	17.4	25	No
802.11a	5835 - 5915	802.11a	OFDM	NA	NA	20.5	100.0%	20.5	-9.82	10.7	25	No
802.11n	5835 - 5915	802.11n	MCS0	NA	NA	21.0	100.0%	21.0	-5.59	15.4	25	No
802.11ac	5835 - 5915	802.11ac	MCS0	NA	NA	21.0	100.0%	21.0	-5.56	15.4	25	No
802.11ax	5835 - 5915	802.11ax	MCS0	NA	NA	21.0	100.0%	21.0	-5.58	15.4	25	No
802.11be	5835 - 5915	802.11be	MCS0	NA	NA	21.0	100.0%	21.0	-5.58	15.4	25	No
802.11a/h	5925 - 6000	802.11a/h	OFDM	NA	NA	20.0	100.0%	20.0	-3.15	16.9	25	No
802.11a	5925 - 6000	802.11a	OFDM	NA	NA	20.0	100.0%	20.0	-9.82	10.2	25	No
802.11ax	5925 - 6000	802.11ax	MCS0	NA	NA	21.0	100.0%	21.0	-5.58	15.4	25	No
802.11be	5925 - 6000	802.11be	MCS0	NA	NA	21.0	100.0%	21.0	-5.58	15.4	25	No

Note(s):

- Average Antenna Input power = Average Frame power in order to account for the Operating Duty cycles for each respective Air Interface.
- Worst Case MIF = the Highest MIF value for each respective RF Air Interface.
- Average Antenna Input power plus MIF is below RF_{AIFL} therefore is compliant to RF_{AIFL} requirements.

ANT 5

Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Average Burst Output Power (dBm)	Duty Cycle	Average Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{AIFL} (dBm)	RF _{AIFL} Limit (dBm)	HAC Tested
LTE Band 2	1850 - 1910	FDD SC-FDMA	16-QAM	20	NA	24.6	100.0%	24.6	-9.76	14.8	26	No
LTE Band 4	1710 - 1755	FDD SC-FDMA	16-QAM	20	NA	24.6	100.0%	24.6	-9.76	14.8	26	No
LTE Band 25	1850 - 1915	FDD SC-FDMA	16-QAM	20	NA	24.6	100.0%	24.6	-9.76	14.8	26	No
LTE Band 66	2110 - 2200	FDD SC-FDMA	16-QAM	20	NA	24.6	100.0%	24.6	-9.76	14.8	25	No
5G NR Band n2	1850 - 1910	FDD DFT-s-OFDM	QPSK	40	15	24.6	100.0%	24.6	-15.07	9.5	26	No
5G NR Band n25	1850 - 1915	FDD DFT-s-OFDM	QPSK	40	15	24.6	100.0%	24.6	-15.07	9.5	26	No
5G NR Band n38	2570 - 2620	TDD DFT-s-OFDM	QPSK	40	30	24.9	100.0%	24.9	-16.68	8.2	25	No
5G NR Band n38	2570 - 2620	TDD CP-OFDM	QPSK	40	30	24.9	100.0%	24.9	-14.32	10.6	25	No
5G NR Band n41 PC3	2496 - 2690	TDD DFT-s-OFDM	QPSK	100	30	24.9	100.0%	24.9	-16.69	8.2	25	No
5G NR Band n41 PC3	2496 - 2690	TDD CP-OFDM	QPSK	100	30	24.9	100.0%	24.9	-14.38	10.5	25	No
5G NR Band n41 PC2	2496 - 2690	TDD DFT-s-OFDM	QPSK	100	30	26.8	50.0%	23.8	-16.69	7.1	25	No
5G NR Band n41 PC2	2496 - 2690	TDD CP-OFDM	QPSK	100	30	26.8	50.0%	23.8	-14.38	9.4	25	No
5G NR Band n41 PC1.5	2496 - 2690	TDD DFT-s-OFDM	QPSK	100	30	26.8	25.0%	20.8	-16.69	4.1	25	No
5G NR Band n41 PC1.5	2496 - 2690	TDD CP-OFDM	QPSK	100	30	26.8	25.0%	20.8	-14.38	6.4	25	No
5G NR Band n66	2110 - 2200	FDD DFT-s-OFDM	QPSK	40	15	24.6	100.0%	24.6	-15.07	9.5	25	No
5G NR Band n77 Block A PC3	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	24.0	100.0%	24.0	-16.69	7.3	25	No
5G NR Band n77 Block A PC3	3450 - 3550	TDD CP-OFDM	QPSK	100	30	24.0	100.0%	24.0	-14.38	9.6	25	No
5G NR Band n77 Block A PC2	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	25.0	50.0%	22.0	-16.69	5.3	25	No
5G NR Band n77 Block A PC2	3450 - 3550	TDD CP-OFDM	QPSK	100	30	25.0	50.0%	22.0	-14.38	7.6	25	No
5G NR Band n77 Block A PC1.5	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	25.0	25.0%	19.0	-16.69	2.3	25	No
5G NR Band n77 Block A PC1.5	3450 - 3550	TDD CP-OFDM	QPSK	100	30	25.0	25.0%	19.0	-14.38	4.6	25	No
5G NR Band n77 Block B PC3	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	24.0	100.0%	24.0	-16.69	7.3	25	No
5G NR Band n77 Block B PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	24.0	100.0%	24.0	-14.38	9.6	25	No
5G NR Band n77 Block B PC2	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	25.0	50.0%	22.0	-16.69	5.3	25	No
5G NR Band n77 Block B PC2	3550 - 3700	TDD CP-OFDM	QPSK	100	30	25.0	50.0%	22.0	-14.38	7.6	25	No
5G NR Band n77 Block B PC1.5	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	25.0	25.0%	19.0	-16.69	2.3	25	No
5G NR Band n77 Block B PC1.5	3550 - 3700	TDD CP-OFDM	QPSK	100	30	25.0	25.0%	19.0	-14.38	4.6	25	No
5G NR Band n77 Block C PC3	3700 - 3980	TDD DFT-s-OFDM	QPSK	100	30	24.0	100.0%	24.0	-16.69	7.3	25	No
5G NR Band n77 Block C PC3	3700 - 3980	TDD CP-OFDM	QPSK	100	30	24.0	100.0%	24.0	-14.38	9.6	25	No
5G NR Band n77 Block C PC2	3700 - 3980	TDD DFT-s-OFDM	QPSK	100	30	25.0	50.0%	22.0	-16.69	5.3	25	No
5G NR Band n77 Block C PC2	3700 - 3980	TDD CP-OFDM	QPSK	100	30	25.0	50.0%	22.0	-14.38	7.6	25	No
5G NR Band n77 Block C PC1.5	3700 - 3980	TDD DFT-s-OFDM	QPSK	100	30	25.0	25.0%	19.0	-16.69	2.3	25	No
5G NR Band n77 Block C PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	25.0	25.0%	19.0	-14.38	4.6	25	No
5G NR Band n78 Block A PC3	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	24.0	100.0%	24.0	-16.69	7.3	25	No
5G NR Band n78 Block A PC3	3450 - 3550	TDD CP-OFDM	QPSK	100	30	24.0	100.0%	24.0	-14.38	9.6	25	No
5G NR Band n78 Block A PC2	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	25.0	50.0%	22.0	-16.69	5.3	25	No
5G NR Band n78 Block A PC2	3450 - 3550	TDD CP-OFDM	QPSK	100	30	25.0	50.0%	22.0	-14.38	7.6	25	No
5G NR Band n78 Block A PC1.5	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	25.0	25.0%	19.0	-16.69	2.3	25	No
5G NR Band n78 Block A PC1.5	3450 - 3550	TDD CP-OFDM	QPSK	100	30	25.0	25.0%	19.0	-14.38	4.6	25	No
5G NR Band n78 Block B PC3	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	24.0	100.0%	24.0	-16.69	7.3	25	No
5G NR Band n78 Block B PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	24.0	100.0%	24.0	-14.38	9.6	25	No
5G NR Band n78 Block B PC2	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	25.0	50.0%	22.0	-16.69	5.3	25	No
5G NR Band n78 Block B PC2	3550 - 3700	TDD CP-OFDM	QPSK	100	30	25.0	50.0%	22.0	-14.38	7.6	25	No
5G NR Band n78 Block B PC1.5	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	25.0	25.0%	19.0	-16.69	2.3	25	No
5G NR Band n78 Block B PC1.5	3550 - 3700	TDD CP-OFDM	QPSK	100	30	25.0	25.0%	19.0	-14.38	4.6	25	No
5G NR Band n78 Block C PC3	3700 - 3800	TDD DFT-s-OFDM	QPSK	100	30	24.0	100.0%	24.0	-16.69	7.3	25	No
5G NR Band n78 Block C PC3	3700 - 3800	TDD CP-OFDM	QPSK	100	30	24.0	100.0%	24.0	-14.38	9.6	25	No
5G NR Band n78 Block C PC2	3700 - 3800	TDD DFT-s-OFDM	QPSK	100	30	25.0	50.0%	22.0	-16.69	5.3	25	No
5G NR Band n78 Block C PC2	3700 - 3800	TDD CP-OFDM	QPSK	100	30	25.0	50.0%	22.0	-14.38	7.6	25	No
5G NR Band n78 Block C PC1.5	3700 - 3800	TDD DFT-s-OFDM	QPSK	100	30	25.0	25.0%	19.0	-16.69	2.3	25	No
5G NR Band n78 Block C PC1.5	3700 - 3800	TDD CP-OFDM	QPSK	100	30	25.0	25.0%	19.0	-14.38	4.6	25	No

Note(s):

- Average Antenna Input power = Average Frame power in order to account for the Operating Duty cycles for each respective Air Interface.
- Worst Case MIF = the Highest MIF value for each respective RF Air Interface.
- Average Antenna Input power plus MIF is below RF_{AIFL} therefore is compliant to RF_{AIFL} requirements.

ANT 6

Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Average Burst Output Power (dBm)	Duty Cycle	Average Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{AIFL} (dBm)	RF _{AIFL} Limit (dBm)	HAC Tested
LTE Band 48	3550 - 3700	TDD SC-FDMA	16-QAM	20	NA	23.1	63.3%	21.1	-1.44	19.7	25	No
5G NR Band n77 Block A PC3	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n77 Block A PC3	3450 - 3550	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n77 Block A PC2	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	27.0	50.0%	24.0	-16.69	7.3	25	No
5G NR Band n77 Block A PC2	3450 - 3550	TDD CP-OFDM	QPSK	100	30	27.0	50.0%	24.0	-14.38	9.6	25	No
5G NR Band n77 Block A PC1.5	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	27.0	25.0%	21.0	-16.69	4.3	25	No
5G NR Band n77 Block A PC1.5	3450 - 3550	TDD CP-OFDM	QPSK	100	30	27.0	25.0%	21.0	-14.38	6.6	25	No
5G NR Band n77 Block B PC3	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n77 Block B PC2	3550 - 3700	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n77 Block B PC3	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	27.0	50.0%	24.0	-16.69	7.3	25	No
5G NR Band n77 Block B PC2	3550 - 3700	TDD CP-OFDM	QPSK	100	30	27.0	50.0%	24.0	-14.38	9.6	25	No
5G NR Band n77 Block C PC3	3700 - 3980	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n77 Block C PC3	3700 - 3980	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n77 Block C PC2	3700 - 3980	TDD DFT-s-OFDM	QPSK	100	30	27.0	50.0%	24.0	-16.69	7.3	25	No
5G NR Band n77 Block C PC2	3700 - 3980	TDD CP-OFDM	QPSK	100	30	27.0	50.0%	24.0	-14.38	9.6	25	No
5G NR Band n77 Block C PC1.5	3700 - 3980	TDD DFT-s-OFDM	QPSK	100	30	27.0	25.0%	21.0	-16.69	4.3	25	No
5G NR Band n77 Block C PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	27.0	25.0%	21.0	-14.38	6.6	25	No
5G NR Band n78 Block A PC3	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n78 Block A PC3	3450 - 3550	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n78 Block A PC2	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	27.0	50.0%	24.0	-16.69	7.3	25	No
5G NR Band n78 Block A PC2	3450 - 3550	TDD CP-OFDM	QPSK	100	30	27.0	50.0%	24.0	-14.38	9.6	25	No
5G NR Band n78 Block A PC1.5	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	27.0	25.0%	21.0	-16.69	4.3	25	No
5G NR Band n78 Block A PC1.5	3450 - 3550	TDD CP-OFDM	QPSK	100	30	27.0	25.0%	21.0	-14.38	6.6	25	No
5G NR Band n78 Block B PC3	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n78 Block B PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n78 Block B PC2	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	27.0	50.0%	24.0	-16.69	7.3	25	No
5G NR Band n78 Block B PC2	3550 - 3700	TDD CP-OFDM	QPSK	100	30	27.0	50.0%	24.0	-14.38	9.6	25	No
5G NR Band n78 Block B PC1.5	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	27.0	25.0%	21.0	-16.69	4.3	25	No
5G NR Band n78 Block B PC1.5	3550 - 3700	TDD CP-OFDM	QPSK	100	30	27.0	25.0%	21.0	-14.38	6.6	25	No
5G NR Band n78 Block C PC3	3700 - 3800	TDD DFT-s-OFDM	QPSK	100	30	25.0	100.0%	25.0	-16.69	8.3	25	No
5G NR Band n78 Block C PC3	3700 - 3800	TDD CP-OFDM	QPSK	100	30	25.0	100.0%	25.0	-14.38	10.6	25	No
5G NR Band n78 Block C PC2	3700 - 3800	TDD DFT-s-OFDM	QPSK	100	30	27.0	50.0%	24.0	-16.69	7.3	25	No
5G NR Band n78 Block C PC2	3700 - 3800	TDD CP-OFDM	QPSK	100	30	27.0	50.0%	24.0	-14.38	9.6	25	No
5G NR Band n78 Block C PC1.5	3700 - 3800	TDD DFT-s-OFDM	QPSK	100	30	27.0	25.0%	21.0	-16.69	4.3	25	No
5G NR Band n78 Block C PC1.5	3700 - 3800	TDD CP-OFDM	QPSK	100	30	27.0	25.0%	21.0	-14.38	6.6	25	No

Note(s):

- Average Antenna Input power = Average Frame power in order to account for the Operating Duty cycles for each respective Air Interface.
- Worst Case MIF = the Highest MIF value for each respective RF Air Interface.
- Average Antenna Input power plus MIF is below RF_{AIFL} therefore is compliant to RF_{AIFL} requirements.

ANT 7

Air-Interface	Frequency Range	Multiplex Scheme	Modulation	BW (MHz)	SCS (kHz)	Average Burst Output Power (dBm)	Duty Cycle	Average Frame Output Power (dBm)	Worst Case MIF (dB)	RF _{AIFL} (dBm)	RF _{AIFL} Limit (dBm)	HAC Tested
LTE Band 48	3550 - 3700	TDD SC-FDMA	16-QAM	20	NA	23.8	63.3%	21.8	-1.44	20.4	25	No
5G NR Band n77 Block A PC3	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	24.0	100.0%	24.0	-16.69	7.3	25	No
5G NR Band n77 Block A PC3	3450 - 3550	TDD CP-OFDM	QPSK	100	30	24.0	100.0%	24.0	-14.38	9.6	25	No
5G NR Band n77 Block A PC2	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	25.0	50.0%	22.0	-16.69	5.3	25	No
5G NR Band n77 Block A PC2	3450 - 3550	TDD CP-OFDM	QPSK	100	30	25.0	50.0%	22.0	-14.38	7.6	25	No
5G NR Band n77 Block A PC1.5	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	25.0	25.0%	19.0	-16.69	2.3	25	No
5G NR Band n77 Block A PC1.5	3450 - 3550	TDD CP-OFDM	QPSK	100	30	25.0	25.0%	19.0	-14.38	4.6	25	No
5G NR Band n77 Block B PC3	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	24.0	100.0%	24.0	-16.69	7.3	25	No
5G NR Band n77 Block B PC2	3550 - 3700	TDD CP-OFDM	QPSK	100	30	24.0	100.0%	24.0	-14.38	9.6	25	No
5G NR Band n77 Block B PC2	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	25.0	50.0%	22.0	-16.69	5.3	25	No
5G NR Band n77 Block B PC2	3550 - 3700	TDD CP-OFDM	QPSK	100	30	25.0	50.0%	22.0	-14.38	7.6	25	No
5G NR Band n77 Block B PC1.5	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	25.0	25.0%	19.0	-16.69	2.3	25	No
5G NR Band n77 Block B PC1.5	3550 - 3700	TDD CP-OFDM	QPSK	100	30	25.0	25.0%	19.0	-14.38	4.6	25	No
5G NR Band n77 Block C PC3	3700 - 3980	TDD DFT-s-OFDM	QPSK	100	30	24.0	100.0%	24.0	-16.69	7.3	25	No
5G NR Band n77 Block C PC3	3700 - 3980	TDD CP-OFDM	QPSK	100	30	24.0	100.0%	24.0	-14.38	9.6	25	No
5G NR Band n77 Block C PC2	3700 - 3980	TDD DFT-s-OFDM	QPSK	100	30	25.0	50.0%	22.0	-16.69	5.3	25	No
5G NR Band n77 Block C PC2	3700 - 3980	TDD CP-OFDM	QPSK	100	30	25.0	50.0%	22.0	-14.38	7.6	25	No
5G NR Band n77 Block C PC1.5	3700 - 3980	TDD DFT-s-OFDM	QPSK	100	30	25.0	25.0%	19.0	-16.69	2.3	25	No
5G NR Band n77 Block C PC1.5	3700 - 3980	TDD CP-OFDM	QPSK	100	30	25.0	25.0%	19.0	-14.38	4.6	25	No
5G NR Band n78 Block A PC3	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	24.0	100.0%	24.0	-16.69	7.3	25	No
5G NR Band n78 Block A PC3	3450 - 3550	TDD CP-OFDM	QPSK	100	30	24.0	100.0%	24.0	-14.38	9.6	25	No
5G NR Band n78 Block A PC2	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	25.0	50.0%	22.0	-16.69	5.3	25	No
5G NR Band n78 Block A PC2	3450 - 3550	TDD CP-OFDM	QPSK	100	30	25.0	50.0%	22.0	-14.38	7.6	25	No
5G NR Band n78 Block A PC1.5	3450 - 3550	TDD DFT-s-OFDM	QPSK	100	30	25.0	25.0%	19.0	-16.69	2.3	25	No
5G NR Band n78 Block A PC1.5	3450 - 3550	TDD CP-OFDM	QPSK	100	30	25.0	25.0%	19.0	-14.38	4.6	25	No
5G NR Band n78 Block B PC3	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	24.0	100.0%	24.0	-16.69	7.3	25	No
5G NR Band n78 Block B PC3	3550 - 3700	TDD CP-OFDM	QPSK	100	30	24.0	100.0%	24.0	-14.38	9.6	25	No
5G NR Band n78 Block B PC2	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	25.0	50.0%	22.0	-16.69	5.3	25	No
5G NR Band n78 Block B PC2	3550 - 3700	TDD CP-OFDM	QPSK	100	30	25.0	50.0%	22.0	-14.38	7.6	25	No
5G NR Band n78 Block B PC1.5	3550 - 3700	TDD DFT-s-OFDM	QPSK	100	30	25.0	25.0%	19.0	-16.69	2.3	25	No
5G NR Band n78 Block B PC1.5	3550 - 3700	TDD CP-OFDM	QPSK	100	30	25.0	25.0%	19.0	-14.38	4.6	25	No
5G NR Band n78 Block C PC3	3700 - 3800	TDD DFT-s-OFDM	QPSK	100	30	24.0	100.0%	24.0	-16.69	7.3	25	No
5G NR Band n78 Block C PC3	3700 - 3800	TDD CP-OFDM	QPSK	100	30	24.0	100.0%	24.0	-14.38	9.6	25	No
5G NR Band n78 Block C PC2	3700 - 3800	TDD DFT-s-OFDM	QPSK	100	30	25.0	50.0%	22.0	-16.69	5.3	25	No
5G NR Band n78 Block C PC2	3700 - 3800	TDD CP-OFDM	QPSK	100	30	25.0	50.0%	22.0	-14.38	7.6	25	No
5G NR Band n78 Block C PC1.5	3700 - 3800	TDD DFT-s-OFDM	QPSK	100	30	25.0	25.0%	19.0	-16.69	2.3	25	No
5G NR Band n78 Block C PC1.5	3700 - 3800	TDD CP-OFDM	QPSK	100	30	25.0	25.0%	19.0	-14.38	4.6	25	No

Note(s):

- Average Antenna Input power = Average Frame power in order to account for the Operating Duty cycles for each respective Air Interface.
- Worst Case MIF = the Highest MIF value for each respective RF Air Interface.
- Average Antenna Input power plus MIF is below RF_{AIFL} therefore is compliant to RF_{AIFL} requirements.

Appendixes

Refer to separated files for the following appendixes

Appendix A: RF-E MIF Attestation Letter

Appendix B: RF-E UID Specifications

END OF REPORT