



Google LLC
1600 Amphitheatre Parkway
Mountain View, CA 94043
650 253-0000 main
Google.com

Federal Communications Commission
7435 Oakland Mills Road
Columbia MD 21046

June 20, 2023

Subject: Declaration - MIF for HAC RF Interference Evaluation
FCC ID: A4RG1MNW

To Whom It May Concern:

Google LLC hereby declares that the MIF values detailed below are based on worst-case operating modes for all air interfaces for which the HAC M rating is provided based on the current methodology for determining MIF values.

UID	Communication System Name	MIF(dB)
10021	GSM-FDD(TDMA,GMSK)	3.63
10025	EDGE-FDD (TDMA, 8PSK, TN 0)	3.75
10460	UMTS-FDD(WCDMA, AMR)	-25.43
10225	UMTS-FDD (HSPA+)	-20.39
10170	LTE-FDD(SC-FDMA,1RB,20MHz,16-QAM)	-9.76
10173	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	-1.44
10769	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	-12.08
10797	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	-14.32
10900	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	-16.68
10932	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	-15.06
10973	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	-1.64
10061	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	-2.02
10077	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	0.12
10427	IEEE 802.11n (HT Greeneld, 150 Mbps, 64-QAM)	-13.44
10069	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	-3.15
10616	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	-5.57
10671	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	-5.58
11026	IEEE 802.11be (320MHz, MCS0, 99pc duty cycle)	-28.73

Sincerely yours,



Clarence Ip
Regulatory Compliance Program Manager
Google LLC
1600 Amphitheatre Parkway
Mountain View, CA 94043