

Date: June 23, 2020

Federal Communications Commission
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD21046

Subject: Declaration - MIF for HAC RF Interference Evaluation
FCC ID: A4RG025E

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
10081	CDMA2000 (1xRTT, RC3)	-19.71
10295	CDMA2000 (1xRTT, RC1 SO3, 1/8th Rate 25 fr.)	3.26
10403	CDMA2000 (1xEV-DO, Rev. 0)	-17.67
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
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 Greenfield, 150 Mbps, 64-QAM)	-13.44
10069	IEEE 802.11a/n WiFi 5 GHz (OFDM, 54 Mbps)	-3.15
10616	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	-5.57

Sincerely yours,



John McNulty
Head of Safety and Compliance Engineering
Google LLC
1600 Amphitheatre Parkway
Mountain View, CA 94043
T: 650-253-0000
E: jcmcnulty@google.com