

Antenna Report

FCC ID: A4R-6GZUC

Product Model: 6GZUC

June 16 2022

Google LLC

1. Antenna Description

Internal Proprietary Antenna Solution consisting of 6 antennas.

- a. The antennas can all be classified as stamped sheet metal IFAs (inverted-F antennas)
- b. 2 x 2.4GHz/5GHz dual band antennas for BT, Thread, 5GHz WiFi Primary
- c. 2 x 5GHz WiFi Diversity
- d. 2 x 2.4GHz/6GHz dual band antennas for WiFi
- e. Detailed antenna photos provided as part of internal photos submission; EUT Photo No.: ER/2022/30035~39, 95-P

2. Measurement Methodology

The antenna gains are measured in a full 3d anechoic chamber. Antenna gain was measured with antennas inside device's enclosure.

- Measured in ETS far field anechoic chamber
 - ETS chamber AMS-8813
 - VNA Rhode & Schwarz ZNB20 - 4 port VNA

3. WLAN/BT/Thread antennae gains

PCB Antenna	Ant1 (5GHz Wi-Fi / 15.4 Thread)	Ant2 (5GHz Wi-Fi)	Ant3 (5GHz Wi-Fi / BLE)	Ant4 (5GHz Wi-Fi)	Ant5 (2.4GHz Wi-Fi / 6GHz Wi-Fi)	Ant6 (2.4GHz Wi-Fi / 6GHz Wi-Fi)
2.4 - 2.4835 GHz	3.3 dBi	N/A	3.2 dBi	N/A	2.4 dBi	2.3 dBi
5.15 - 5.25 GHz	4.8 dBi	3.7 dBi	4.5 dBi	3.7 dBi	N/A	N/A
5.725 - 5.895 GHz	5.0 dBi	3.3 dBi	3.3 dBi	3.3 dBi	N/A	N/A
5.925 - 6.425 GHz	N/A	N/A	N/A	N/A	6.0 dBi	5.3 dBi
6.425 - 6.875 GHz	N/A	N/A	N/A	N/A	5.5 dBi	5.2 dBi
6.875 - 7.125 GHz	N/A	N/A	N/A	N/A	3.4 dBi	3.3 dBi