



Parallel Wireless, Inc.
300 Innovative Way, Suite 2310
Nashua, NH 03062
1-603-367-3607
www.parallelwireless.com

January 17, 2024

The Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Form 422 Conf. No.: EL432059
Form 442 File No: 0061-EX-CN-2024

Submitted Electronically via ELS

To Whom It May Concern:

Parallel Wireless, Inc., an innovative company developing next-generation 2G, 3G, 4G, and 5G radio access networks, respectfully submits a request for an experimental license under 47 C.F.R. Part 5 (Experimental Radio Service). This letter is attached to the above-identified application according to FCC Form 422.

Parallel Wireless seeks an experimental license grant for the frequencies 925-960, 1805-1880, and 2110-2170 MHz. Parallel Wireless intends to operate in Wilton, New Hampshire. The proposed term is February 1, 2023 to February 1, 2025 but in any event as soon as possible.

Grant of this experimental license application will enable Parallel Wireless to undertake additional product development, research, and testing that supports its goal to facilitate deployment of mobile broadband networks. The product, and the attendant experimental testing, is relevant to the continued expansion of mobile broadband networks, including methods for increasing capacity, network speed, equipment density, and ease of operation. A full listing of Parallel Wireless certified hardware may be found under FCC Grantee Code 2AI7F.

The following information is provided to satisfy FCC Form 422, Question 7, a–c.

a. The complete program of research and experimentation proposed including description of equipment and theory of operation

The equipment to be experimentally tested consists of Parallel Wireless 4G experimental base stations, which connect to the operator network and provide cellular service. Testing of the experimental base stations will entail conventional handsets connecting to the base stations in their typical operating environment.

b. The specific objectives sought to be accomplished

The objectives to be accomplished is continued testing of both Parallel Wireless software and hardware. This includes testing of hardware revisions and new software releases required to meet the requirements of, and fix bugs for, Parallel Wireless's customers, various network operators. Furthermore, Parallel Wireless hopes to assess performance in real-world RF environments, and performance of various UEs (user equipments) with the experimental equipment.

c. How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion, or utilization of radio art, or is along lines not already investigated.



In testing the Parallel Wireless hardware and software, Parallel Wireless hopes to additionally further the understanding of 4G radios and algorithms, research meshing capabilities relevant to 4G radios, and study integration of multiple radio access technologies with antennas in over-the-air testing, including 4G.

Parallel Wireless includes this letter as part of the above-referenced application to affirm its understanding of its obligation to conduct operations under this license. Parallel Wireless accordingly agrees that it:

- Will not utilize the license in conjunction with the provision of mission-critical communications.
- Has designated an overall project manager and a “stop buzzer” contact for these experiments, identified in an attachment to this letter. Parallel Wireless has successfully coordinated such testing for all of its licenses to date.
- Understands that the experimental license will only permit shared use of the subject radio frequencies and that Parallel Wireless may have to coordinate with other licensed entities.
- Affirms that all of its experimental operations will be secondary, such that they must not cause interference to narrowband or broadband operations authorized on a primary basis; and that narrowband and broadband operators authorized on a primary basis have no obligation to mitigate any interference that such primary operation may present to the Parallel Wireless experimental operations.

We welcome any comments or questions from the Commission, either to myself, Senior Corporate Counsel at the contact information below, or to Amit Joshi, Manager, Software and System Test, amjoshi@parallelwireless.com, 603-514-8868, who will be the stop buzzer contact as well for this application.

Best Regards,

/s/ Michael Saji

Senior Corporate Counsel
msaji@parallelwireless.com
1-603-367-3607



ATTACHMENT

The designated project management and “stop buzzer” contact for the experimental operations to be conducted as proposed under the Experimental License Service Application filed by Parallel Wireless Inc. and pending under File No. 0801-EX-CN-2021 is:

Amit Joshi
QA Manager
Parallel Wireless, Inc.
300 Innovative Way, Suite 2310
Nashua, NH 03062
Cell: 1-603-514-8868
amjoshi@parallelwireless.com