

Description of Proposed Experimental Operations

Patriot One Technologies, Inc. (“Patriot One”) seeks authorization to conduct pre-commercial field trials in order to develop new, additional functionalities for future versions of the innovative threat-detection radar technology and software solution, the PATSCAN-CMR 1.0. Although the PATSCAN-CMR 1.0 has been certified by the Commission (FCC ID: 2ALZTCMR) Patriot One continually seeks to make advancements and improvements to its technology. As a result, Patriot One now seeks the authority to develop enhanced capabilities in threat detection using the PATSCAN-CMR 1.0. The PATSCAN-CMR 1.0 device will continue to operate at extremely low power levels that are within the limits imposed by the Commission’s rules from 370.422 MHz – 4807.692 MHz. The field test will evaluate the performance of the PATSCAN-CMR 1.0 when utilizing a new and different sweep rate in order to obtain data and advance Patriot One’s understanding of the full potential of the technology.

Location of Testing

Patriot One will conduct fixed testing in targeted areas with radio frequency emissions (“RF”) contained to a roughly 1-meter radius. Specifically, testing will be conducted for limited periods within a 1-meter radius at the following location:

# Units	Address	Latitude	Longitude
1	3000 Paradise Road, Las Vegas, NV 89109	36.147447	-115.152701

Description of Testing

The experimental operations will field test Patriot One’s pre-commercial threat detection equipment in various configurations and at various frequencies from 370.422 MHz – 4807.692 MHz.¹ In particular, Patriot One will test the operational functionality of different sweep rates within those frequencies maintaining (or adjusting accordingly) the required average power levels. Field testing will take place for limited periods of time over the course of one year at the location listed above. Through this testing, Patriot One hopes to validate the use of its PATSCAN technology at different sweep rates. Patriot One will also test to ensure that it has accounted for real-world factors such as interference, variation in subjects, clothing and materials.

Radio Equipment Description

The radio equipment that will be used in the proposed experiment will be the exact same equipment described in its successful application for certification of the PATSCAN-CMR 1.0, FCC ID: 2ALZTCMR. The radio equipment will operate in the UWB spectrum bands set aside for, among other things, “D-wall imaging” systems (which are regulated by Section 15.510 of the Commission’s rules). In this proposed experiment, Patriot One will be testing differences in the

¹ The operational parameters will be nearly identical to the certified PATSCAN-CMR 1.0, FCC ID: 2ALZTCMR. For example, the frequency range, power levels, frequency tolerance, and emissions designator will all be the same.

rate of frequency steps, but will maintain a bandwidth of less than 500 MHz consistent with the Commission's rules.²

Prototype Equipment

Patriot One will test the PATSCAN-CMR 1.0 prototype within the power limits found in Section 15.209 and Section 15.510(d) of the Commission's rules.³ Depending on the performance of the PATSCAN-CMR 1.0 device at the various sweep rates tested, Patriot One will hopefully seek a permanent Commission certification for the device at the specific sweep rates.

Protection Against Interference

Pursuant to the Commission's experimental licensing rules,⁴ Patriot One understands that, for purposes of the experimental operations described in this application, it must accept interference from any incumbent users in the bands of operation, and that Patriot One's experimental operation will be conducted on a secondary basis.

To ensure prompt resolution of any potential interference events, Patriot One will establish a point of contact, available 24/7 during the time when all experiments are conducted. This person will have authority and the ability to disable all transmissions when notified that interference is impacting incumbent users in the services. Should interference occur during these testing periods, Patriot One will take immediate steps to resolve the interference, including discontinuing operations, or, if appropriate, moving operations to a different channel.

Restrictions on Operation

Patriot One does not seek authority to perform a commercial market study under the requested experimental license. Patriot One will retain control over all of the prototype equipment utilized in the testing at all times.

Contact Information

FCC licensing issues:

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² 47 CFR §§ 15.503(d).

³ 47 CFR §§ 15.209, 15.510(d).

⁴ See 47 C.F.R Part 5.

Test Bed Operations:

Gordon Relyea
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Patriot One, Inc.
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Field Test Managers (available at all-times for all issues and requests to cease transmissions)

Address	Manager
3000 Paradise Rd, Las Vegas, NV 89109	Tim Cook, Director of Security 702-882-6005 Tim_cook@wgrsorts.com 1-702-882-6005

In light of the foregoing and pursuant to Sections 5.3(j) and 5.54(a)(1) of the Commission’s rules (47 C.F.R. §§ 5.3(j), 5.54(a)(1)), Patriot One requests authorization to conduct experimental operations under a conventional radio experimental license issued by the Commission for a term of one year after Commission approval, which we respectfully request to be on or about July 15, 2019.