

31 August 2020

Federal Communications Commission
Office of Engineering and Technology
445 12th Street, SW
Washington, DC 20554

Subject: Experiment 2020_08_EU Bands UHF

Dear Sirs:

Subject:

In order to measure and improve the performance of new UHF RFID systems, we would like to operate systems using the European frequency plans for UHF RFID. Because these UHF systems typically operate using channels around either 915 MHz or 868 MHz, depending on the country, overall system performance can vary significantly between these two frequency ranges.

We plan to run experiments that would use both EU UHF RFID Bands:

EU1, using four frequency channels as specified in the EU RFID standard EN 302 208:

- Center frequency = 865.7, 866.3, 866.9, 867.5 MHz
- Each channel has a bandwidth of 200 kHz.
- We plan to operate a maximum of ten transmitters at any one time.
- Maximum power for each transmitter will be 3.28 Watts EIRP.
- Experiments will be conducted indoors only, in engineering labs.

EU2 using

- Center frequency = 916.1, 917.3, 918.5, 919.7 MHz
- Each channel has a bandwidth of 400 kHz.
- We plan to operate a maximum of ten transmitters at any one time.
- Maximum power for each transmitter will be 6.56 Watts EIRP.
- Experiments will be conducted indoors only, in engineering labs.

Location:	Operation will be limited to our engineering lab located at 15370 Barranca Parkway, Irvine, CA 92618 / USA
Hours of operation:	During normal business hours (8AM to 6PM Pacific Time).

If a complaint of interference is received, the equipment will be clearly marked and can be shut down immediately.

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