

What is claimed is:

1. A method for acquiring and transmitting a channel measurement at a user equipment (32) in response to a request from a cellular radio network, the method comprising:

receiving, at a cellular radio transceiver (36) of the user equipment (32), a request from a cellular radio base station requesting the user equipment (32) to measure at least one channel (S108), from unlicensed radio spectrum channels associated with the user equipment (32);

receiving (S112), at a unlicensed radio spectrum transceiver (38) of the user equipment (32), signals on the at least one channel of the unlicensed radio spectrum;

processing the received signals to determine a measurement of at least one channel (S114) of the unlicensed radio spectrum; and

transmitting the measurement to the cellular radio base station via the cellular radio transceiver (36; S116).

2. A user equipment (32), comprising:

a cellular radio unit (36) configured to:

receive a request from the cellular radio base station requesting the user equipment to measure at least one channel (S108) ), from channels of unlicensed radio spectrum associated with the user equipment (32); and

transmit to the cellular radio base station a report having the measurement of the at least one channel (S116)of the unlicensed spectrum; and

an unlicensed radio spectrum transceiver (38) configured to;

receive signals on the at least one channel of the unlicensed radio spectrum;

and

process the received signals to determine a measurement of at least one channel (S114) of the unlicensed radio spectrum; and

an interface (40) to facilitate communications between the cellular radio unit and the unlicensed radio spectrum transceiver.

3. The user equipment of Claim 2, wherein the report having the measurement is generated in the unlicensed radio spectrum transceiver (38)or

wherein the report having the measurement is generated in the cellular radio unit (36).

4. The user equipment of claim 3, wherein the unlicensed radio spectrum channel is a WiFi channel.