

Interference Avoidance Procedures

The advanced technology testing as identified in the submitted STA application is to be performed on location at 7061 Columbia Gateway Drive, Columbia, Howard County, Maryland. This testing is to include all advanced technology feature sets (*i.e.*, voice, data, etc.) in a standard macro radio base station configuration as specified by 3GPP standard specifications. All RF emissions associated with radio base stations used for the testing of the technologies have been type approved. The commercial UE equipment is industry standard and meets all 3GPP specification requirements.

Tecore will employ the following procedures prior to any specific test and demonstration activity under the STA:

1. Validate Designated Test Spectrum

The designated test spectrum is validated over a monitoring period. The utilization of industry-standard RF spectrum sweeping equipment will validate the test RF spectrum by confirming no other carriers are broadcasting in the specified spectrum domain. Prior to any RF emissions by the test radio base station, additional RF spectrum sweeps will be performed to ensure that no carrier is broadcasting on the test frequencies.

2. Equipment Validation

The radio base station equipment will be stage tested prior to any test phase. Stage testing includes the process of validating all radio emission parameters per specifications with industry standard test equipment. The test methodology is based on common industry practice for normal operation of any advanced technology radio base station technology.

3. Preventive Interference Measures

Preventive measures to ensure non-interference to license holders are key to the success of our testing. Active monitoring utilizing industry standard RF spectrum monitoring test equipment will remain present during all phases of the test period. Any indication of the presence of RF interference will cause the test phase to be terminated immediately.

4. Test Configuration

The main beam width orientation will be ~220 degrees with ± 10 degrees adjustments. The distance is max is 15 kilometers from site location. The maximum height of the directional antennas will be ~45 feet from ground level.

It is not in the best interest of Tecore to create RF interference of any kind as it invalidates our test goals. A conservative approach to the testing has been adopted for the duration of the STA. Adherence to FCC requirements are paramount in the performance of Tecore's testing and demonstration activities.

The results of the area frequency analysis for the initial testing and demonstration have identified the following clear frequencies in the test area and these are the initial frequencies intended to be used under the STA:

DL UARFCN	DL Center Frequency (MHz)	UL UARFCN	UL Center Frequency (MHz)
10612	2122.4	9662	1932.4
10637	2127.4	9687	1937.4
10662	2132.4	9712	1942.4
10687	2137.4	9737	1947.4
10737	2147.4	9787	1957.4
10762	2152.4	9812	1962.4

A similar process will be undertaken, consistent with the above-described procedures, for additional testing and demonstration in the future.