Description of Experiment for STA Request

Reference: FCC file no. 0961-EX-ST-2021

This is planned as a radar demonstration to potential customers based on customer requests, methods and available facilities (indoor/outdoor):

- Indoor: lab (typically involving anechoic chambers) or large hangars, where radar would be transmitting and receiving echoes, potentially using radar target simulators or real targets (car, pedestrian) ranges of <10m (chambers) to up to 200m (hangars).
    - Typical test time – several hours for several days running different test procedures/modes/measurements.
- Outdoor stationary mounted: radar would be mounted on a tripod/table and would be tested up to 350m.
    - Typical test time – several hours
- Outdoor dynamic tests: Radar would be mounted on a car, can be moving in private test areas or public roads.
    - Typical test time – sub 1 hour.

During the demos we would be showing various radar capabilities such as:

- Field of View – max detection range for different RCS targets, on radial and lateral ranges.
- Parameters accuracy – when radar reports range of velocity how similar are these to ground truth/reference.

Please contact me at your convenience for any questions.

Regards,

Steven C. Hackett
Wireless Regulations Engineer
Mobile Wireless Group
TEL: 803-216-2344
CELL: 803-315-6704
steven.c.hackett@intel.com

100 Center Point Circle
Columbia, SC 29210