

### B.3 Measured Data for a Transmitter on Squaw Mountain at 533 MHz.

At this location and frequency, the transmitter power level was 28.6 dBm (0.72 W) with an antenna height of 8.20 m (26.91 ft) and a gain of 6.5 dBi (4.47). The height of the receiving antenna was 2.95 m (9.68 ft) with a gain of 1.9 dBi (1.55). Figures B.21 through B.27 present the measured power levels for various locations around the Boulder area.

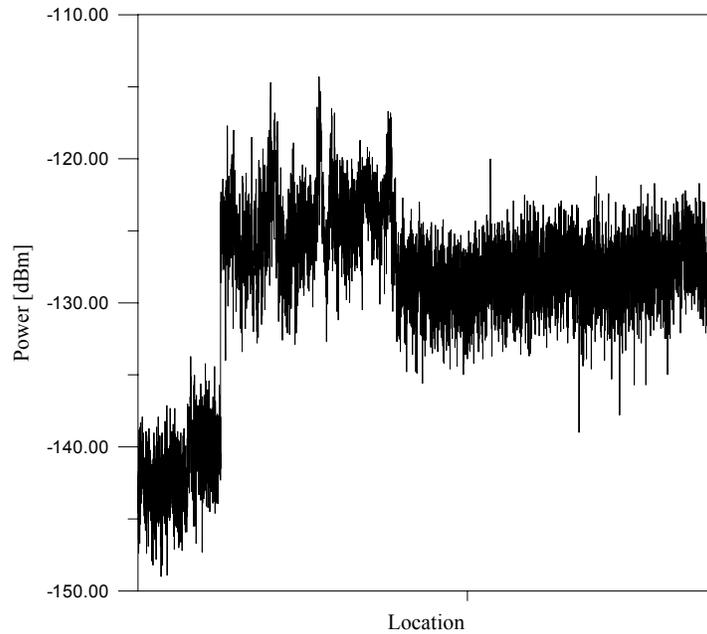


Figure B.21. Measured power levels for various locations at the DOC Laboratories for 533 MHz from a transmitter on Squaw Mountain. The results correspond to different locations as the measurement vehicle was driven along various roads on the Laboratory property.

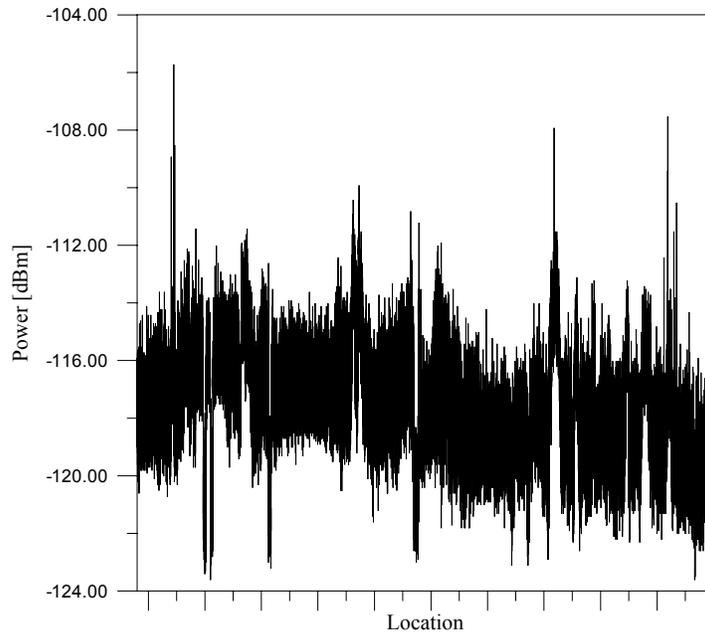


Figure B.22. Measured power levels at different locations on the Table Mountain NRQZ for 533 MHz from a transmitter on Squaw Mountain. The results correspond to different locations as the measurement vehicle was driven along the north-south road and the east-west road on the NRQZ.

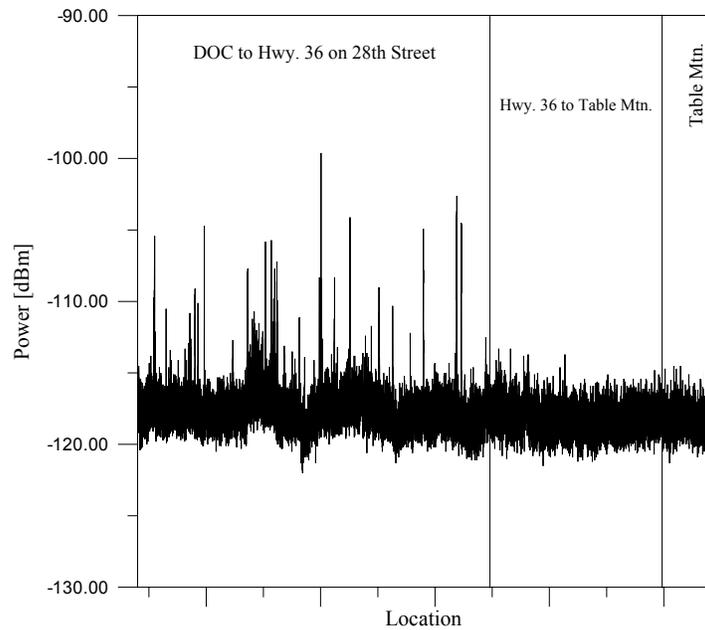


Figure B.23. Measured power levels on the 28<sup>th</sup> Street route for 533 MHz from a transmitter on Squaw Mountain. These data were taken on 28<sup>th</sup> Street to Highway 36 (from the DOC Laboratories to the Table Mountain NRQZ).

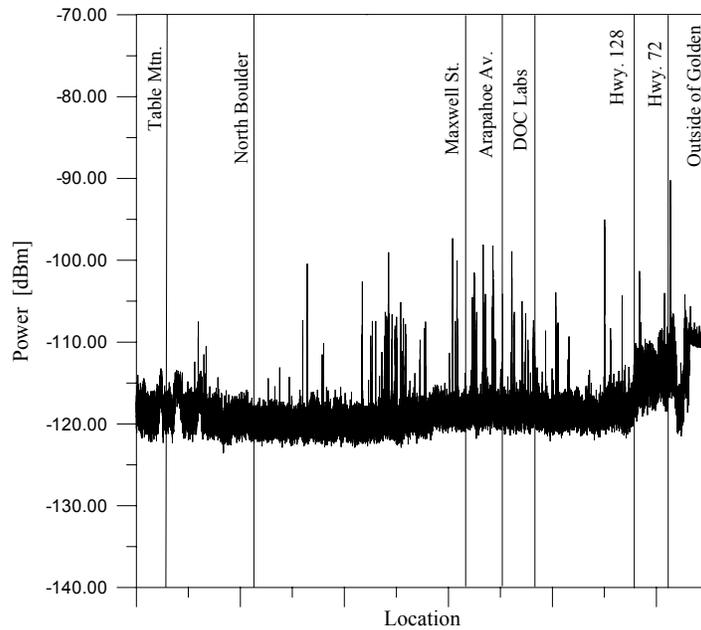


Figure B.24. Measured power levels on the Broadway loop for 533 MHz from a transmitter on Squaw Mountain. These data were taken on Highway 36 and Highway 93, starting at the Table Mountain NRQZ, going to Highway 72, and returning to the DOC Laboratories.

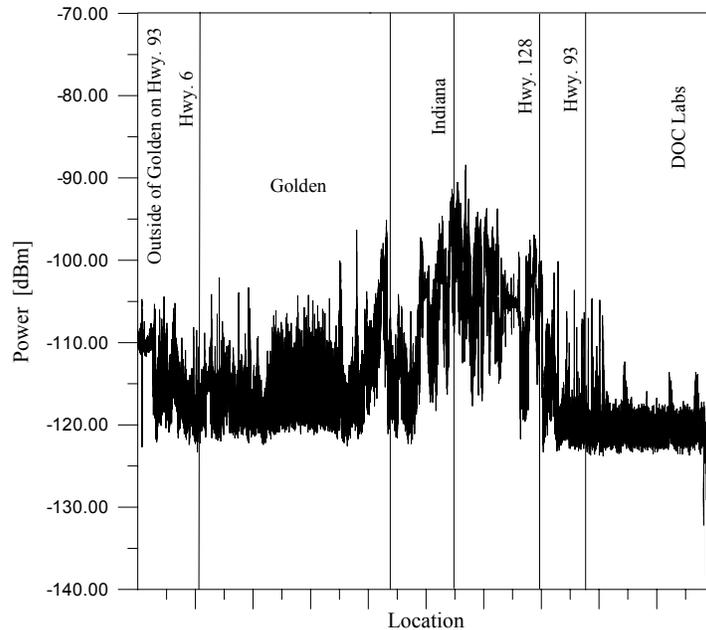


Figure B.25. Measured power levels on the Golden loop for 533 MHz from a transmitter on Squaw Mountain. These data were taken in Golden, Colorado returning to the DOC Laboratories via Indiana Ave.

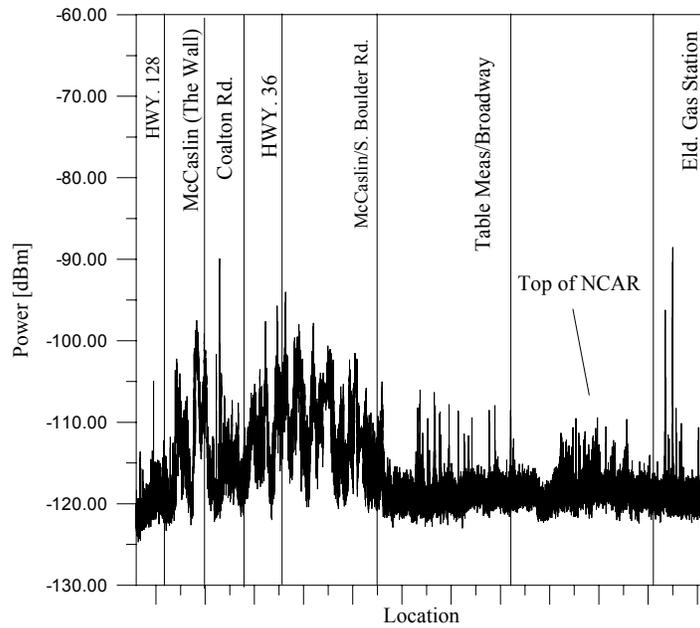


Figure B.26. Measured power levels on the McCaslin loop for 533 MHz from a transmitter on Squaw Mountain. These data were taken on various roads starting at a gas station at Eldorado Canyon and returning to the starting point.

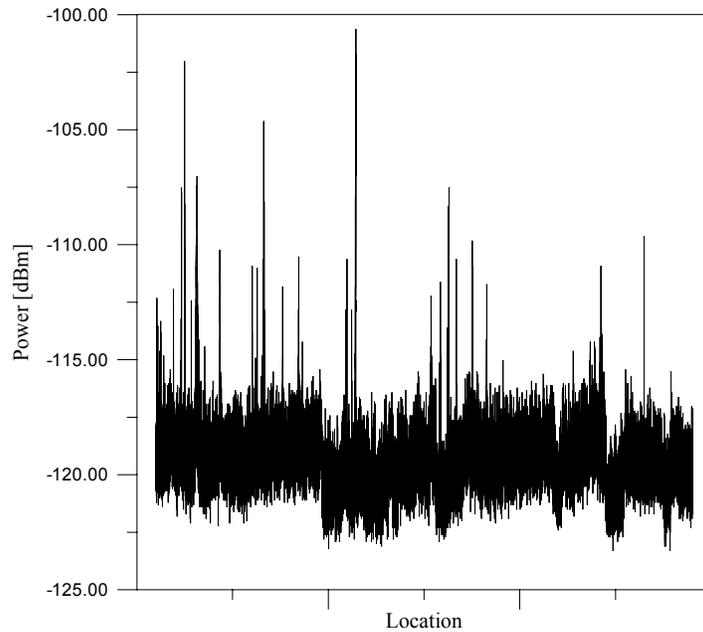


Figure B.27. Measured power levels on the Greenbriar loop for 533 MHz from a transmitter on Squaw Mountain. This loop consisted of Greenbriar Blvd., Lehigh Street, Table Mesa Drive, and Gillaspie Drive.

#### B.4 Measured Data for a Transmitter on Squaw Mountain at 772 MHz.

At this location and frequency, the transmitter power level was 37.0 dBm (5.0 W) with an antenna height of 8.20 m (26.91 ft) and a gain of 6.5 dBi (4.47). The height of the receiving antenna was 2.95 m (9.68 ft) with a gain of 1.9 dBi (1.55). Figures B.28 through B.34 present the measured power levels for various locations around the Boulder area.

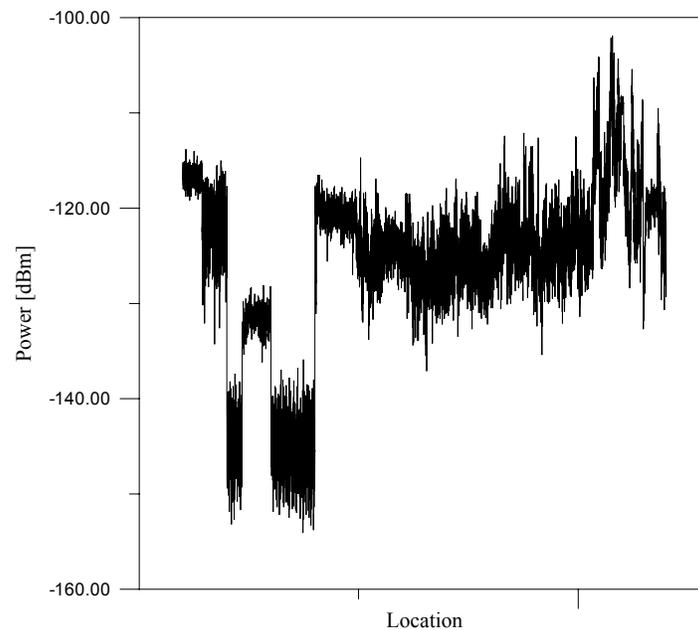


Figure B.28. Measured power levels for various locations at the DOC Laboratories for 772 MHz from a transmitter on Squaw Mountain. The results correspond to different locations as the measurement vehicle was driven along various roads on the Laboratory property.

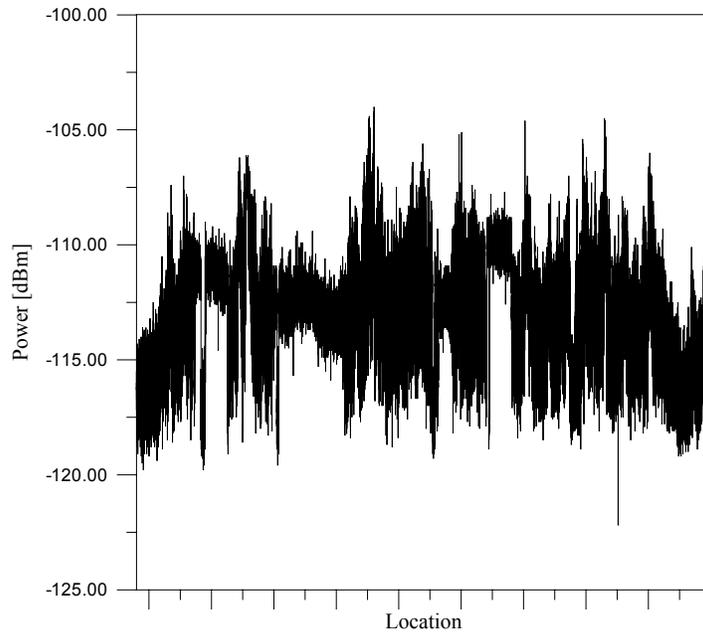


Figure B.29. Measured power levels at various locations on the Table Mountain NRQZ for 772 MHz from a transmitter on Squaw Mountain. The results correspond to different locations as the measurement vehicle was driven around the north-south road and the east-west road on the NRQZ.

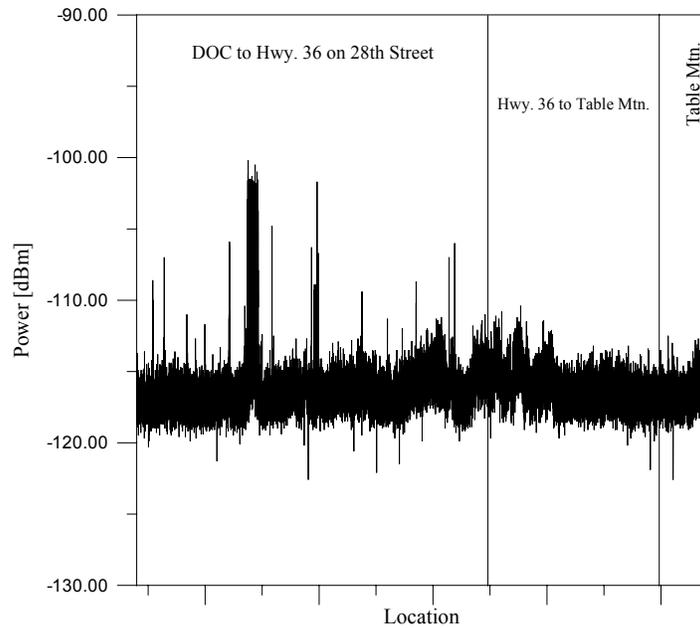


Figure B.30. Measured power levels on the 28<sup>th</sup> Street route for 772 MHz from a transmitter on Squaw Mountain. These data were taken on 28<sup>th</sup> Street to Highway 36 (from the DOC Laboratories to the Table Mountain NRQZ).

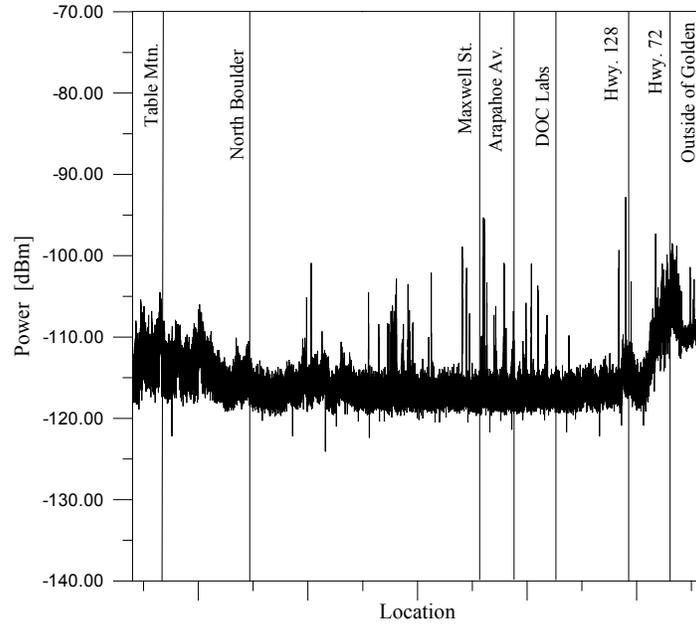


Figure B.31. Measured power levels on the Broadway loop for 772 MHz from a transmitter on Squaw Mountain. These data were taken on Highway 36 and Highway 93, starting at the Table Mountain NRQZ, going to Highway 72, and returning to the DOC Laboratories.

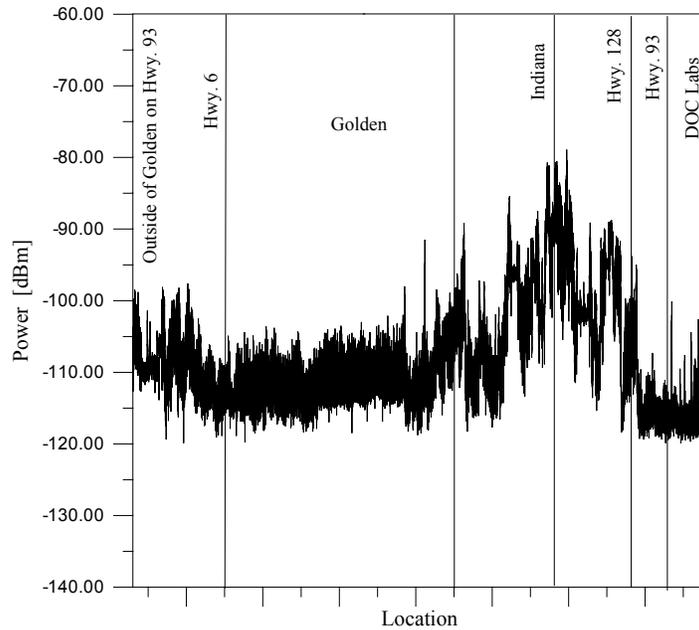


Figure B.32. Measured power levels on the Golden loop for 772 MHz from a transmitter on Squaw Mountain. These measured data were taken in Golden, Colorado returning to the DOC Laboratories via Indiana Ave.

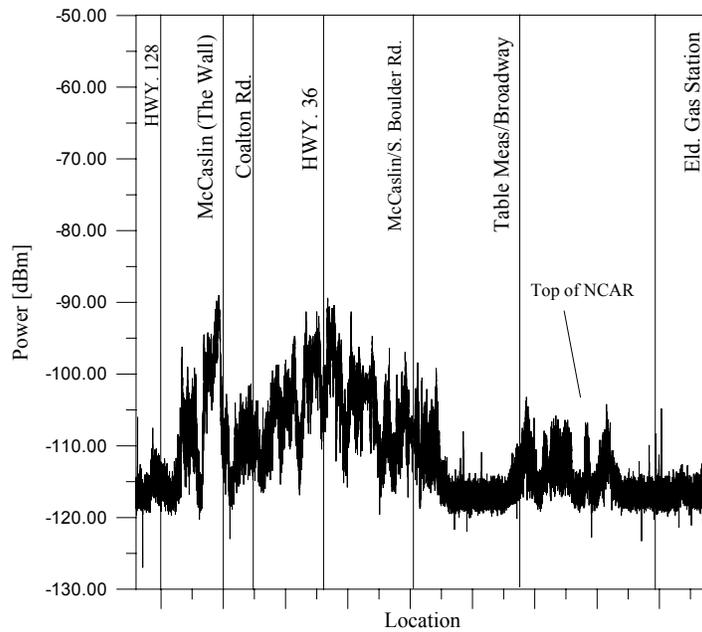


Figure B.33. Measured power levels on the McCaslin loop for 772 MHz from a transmitter on Squaw Mountain. These data were taken on various roads starting at a gas station at Eldorado Canyon and returning to the starting point.

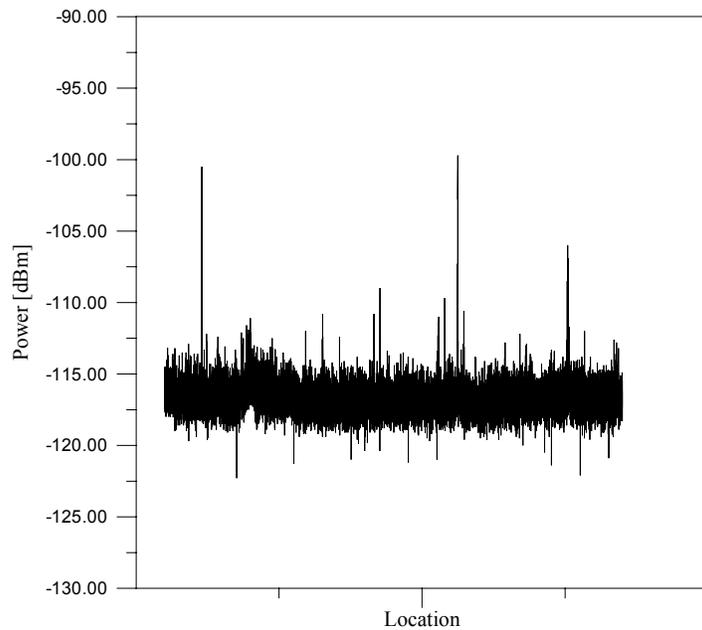


Figure B.34. Measured power levels on the Greenbriar loop for 772 MHz from a transmitter on Squaw Mountain. This loop consisted of Greenbriar Blvd., Lehigh Street, Table Mesa Drive, and Gillaspie Drive.

