

**First Annual 3905 Century Club
Mobile Antenna Shoot Out**

July 27, 2002



Callsign	Antenna	Vehicle	Mount	Recorded Voltage (mV)
K0WJ	Predator	Full size SUV	receiver hitch	421
KB0OKS	BugCatcher	Semi Tractor	mirror	353
AA0ZP	Hamstick	Mini-Van	top rear	218
W9JAY	Screwdriver	Semi Tractor	mirror	181
AC6LU	Hamstick	mid size car	mag mt roof	160
W5IL	Hamstick	mid size car	mag mt roof	160
WA1VQY	Hamstick	full size P/U	rear box	141
K1FAL	Screwdriver	Humongous M/H	front bumper	132
WQ1H	Hustler Std	mid size car	rear trunk	121
K0MRC	Screwdriver	Semi Tractor	mirror	111
NT4Z	Hamstick	mid size	mag mt trunk	95
WM4SG	Outbacker	full size car	rear trunk	92
AG4LB	Hustler	mid size P/U	rear box	72
AA1NZ	Stealth	mid size car	hitch	* 60
KA9JAC	Hustler	mid size car	rear trunk	** 22.5

* **AA1NZ** was doing all the recording at the Rx-ing end. When it was his turn to test, an innocent observer held the metal RXer box. It was later demonstrated that holding the box dropped a 340 reading down to 40 mV. Tom did not protest, but vowed to improve the test method for next year.

** **KA9JAC** was aware of the fact that his antenna was not loading properly. However, he wanted to test to see the effects.

The Rxer circuit was a small loop antenna fed into a parallel tuned circuit which was tuned for 7.2335 MHz. There, the RF was rectified in a germanium full wave bridge. The DC voltage was fed down a 40 foot shielded cable to a metal box with two terminals for a digital millivoltmeter connection. The transmitter used for all contestants was an IC706 with a cigar lighter plug.

The output was set to 50W for all contestants as the rig was switched between vehicles being tested. The antenna under test was placed above a marker which was located at 40 Meters from the receiving loop. Mebbe not too scientific, but it sure was an interesting experience for all involved.

See you next year !!

Thanks Tom, AA1NZ, for a great report on the antenna shootout and the work involved in getting it all set up to run a smooth event.

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