

**Antenna Measuring Results**  
**29<sup>th</sup> Eastern VHF/UHF Conference, with Microwave Update, held in**  
**Enfield, CT, at the Radisson Hotel, August 24, 2003**

Antenna measurements were conducted by Chris Fagas, WB2VVV, using modern Hewlett Packard (Agilent) Test Equipment supplied by W1GHZ, with known reference standard antennas.

144 MHz (Reference: Half Wave Dipole, 0 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
N1DPM	5 Element Yagi-Uda	5.5'	+9.5	+9.5
WB2VVV	Half Wave Dipole	0'	0	0

222 MHz (Reference: Half Wave Dipole, 0 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
WZ1V	14 Element Yagi-Uda	19'	+12.8	+12.8
WB2VVV	Half Wave Dipole	0'	0	0

432 MHz (Reference: Half Wave Dipole, 0 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
WB2VVV	Big Wheel	13"	+1.5	+1.5
WZ1V	HZ Omni Plumber's Spec'l	5"	-1.7	-1.7
WB2VVV	Half Wave Dipole	0'	0	0
WB2VVV	Patch Antenna $E_r=10$	4" X 4"	-9.9	-9.9

903 MHz (Reference: 4" X 4" Patch,  $E_r = 2.3$ , +5.2 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
WB2VVV	15 Element Wood Boom Y/U	4' 6"	+8.5	+13.7
WB2VVV	Patch Antenna $E_r=1$	5" X 5"	+3.1	+8.3
WB2VVV	Patch Antenna $E_r=2.3$	4" X 4"	0	+5.2

1296 MHz (Reference: 3" X 3" Patch,  $E_r = 2.3$ , +6.9 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
WB2VVV	Quad Patch Array $E_r=2.3$	11" X 11"	+3.9	+10.8
WB2VVV	Patch Antenna $E_r=2.3$	3" X 3"	0	+6.9
WB2VVV	Tin Can Horn	15"	-0.6	+6.3

2304 MHz (Reference: 1.75" X 1.75" Patch,  $E_r = 2.3$ , +6.0 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
W1AIM	30" Dish RMX Feed	0"	+14.1	+20.1
W1AIM	30" Dish VJB Tri Feed	0"	+12.1	+18.1
WB2VVV	Patch Antenna $E_r=1$	2.5" X 2.5"	+1.0	+7.0
WB2VVV	Patch Antenna $E_r=2.3$	1.75" X 1.75"	0	+6.0
WB2VVV	Coffee Can Horn	12"	-1.0	+5.0

3456 MHz (Reference: 1.3" X 1.3" Patch,  $E_r = 2.3$ , +5.9 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
W1AIM	30" Dish VJB Feed	0"	+13.5	+19.4
W1AIM	4" X 3" Horn	0"	+2.4	+8.3
WB2VVV	Open 2 GHz WG	0"	+0.5	+6.4
WB2VVV	Patch Antenna	1.3" X 1.3"	0	+5.9

5760 MHz (Reference: 1" X 1" Patch,  $E_r = 1$ , +6.4 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
W1AIM	30" Dish VJB Feed	0"	+17.1	+23.5
W1AIM	4" X 3" Horn	0"	+4.5	+10.9
WB2VVV	Patch Antenna	1" X 1"	0	+6.4

10368 MHz (Reference: 2.75" X 2.375" Horn, + 10 dBd)

Owner	Antenna Description	Boom Length	Reference Gain	Dipole Gain (dBd)
W1FKF	24" Dish Flange Feed	0"	+16.7	+26.7
KA1ZD	18" Dish Offset Feed	0"	+14.6	+24.6
W1AIM	30" Dish VJB Feed	0"	+8.2	+18.2
WB2VVV	2.75" X 2.375" Horn	0"	0	+10.0
WB2VVV	Patch Antenna $E_r=1$	0.6" X 0.6"	-4.3	+5.7

WB2VVV Patch Antenna  $E_r=2.3$  0.4" X 0.4" -6.6 +3.4

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