

Antenna Measuring Results
29th 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
