

2019_MicrowaveUpdate_Ant_Range-Rev-A.xls

902/903

CALL	TYPE	MFG	DESCRIPTION	MEASURED dB	GAIN dBi	COMMENTS
WB0DBS	LP Yagi	Sci. Atlanta	Ref Antenna 400 - 1400 LP	-2.7	9.0	902 MHz

1296

CALL	TYPE	MFG	DESCRIPTION	MEASURED dB	GAIN dBi	COMMENTS
WC5Z	Horn	HB	3 3# coffee cans	-6.3	5.8	
WB0DBS	LP Yagi	Sci. Atlanta	400 - 1400 LP	-5.4	6.0	
WB0DBS	LP Yagi	Sci. Atlanta	Dual Polarity #2	-5.8	6.3	"Unmarked"
WB0DBS	LP Yagi	Sci. Atlanta	Dual Polarity #1	-5.8	6.3	"Red Dot"
K7CVU	Yagi	HB	5 el Yagi	-5.4	6.8	"Unmarked"
KD5URL	Yagi	HB	Ref Antenna 16 el AI boom w/ thru el	-5.2	6.9	"Red Dot"
				-3.1	9.0	1296 MHz
				0.7	12.1	
					12.8	
WA5VJB	Vivaldi	Comm	Ref Antenna	-10.5	9.0	1296 MHz
					-2.5	Conference ID badge

2304

CALL	TYPE	MFG	DESCRIPTION	MEASURED dB	GAIN dBi	COMMENTS
			Ref Antenna		17.0	2304 MHz

UNABLE TO TEST DUE TO EQUIPMENT PROBLEMS

5760

CALL	TYPE	MFG	DESCRIPTION	MEASURED dB	GAIN dBi	COMMENTS
			Ref Antenna		22.2	5670 MHz

UNABLE TO TEST DUE TO EQUIPMENT PROBLEMS

8450

CALL	TYPE	MFG	DESCRIPTION	MEASURED dB	GAIN dBi	COMMENTS
KC2TDS	Circular Feed Horn	HB	Compression circularity	-8.2	13.2	8540 MHz
						-2.5 dB Axial ratio

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10GHz

CALL	TYPE	MFG	DESCRIPTION	MEASURED dB	GAIN dBi	COMMENTS
WB0DBS	10/24 GHz Dish Feed	Comm	Cross-polarized dual feed	-7.2	9.4	
K0MHC	WG slot #2	HB	12 slot	-7.1	9.5	nulls not measured ~8 deg uptilt
K0MHC	WG slot #1	HB	12 slot	-2.0	14.6	-6dB nulls on corners ~8 deg uptilt
K0DSP	Horn	Comm	Ref Antenna Cast metal	-5	16.6	10.368 MHz
K0DSP	Horn	HB	Conductive paint inside	2.9	19.5	"Yellow" horn
K0DSP	Horn	Comm	Alarm system horn	3.0	19.6	
K0DSP	Horn	HB	Circuit board	3.5	20.1	
K7CVU	Horn	Comm	17dB plastic, metalized	3.5	20.1	Well known commerical product
W0JT	19" DSS	Comm/HB	19" Dish 500/orig feed	NOT TESTED	17.0	
K0MHC	Dish	HB	Ref Antenna 1' w/splash-plate feed	-5.5	17.0	Feed mod to 10GHz
K0MHC	19" DSS	Comm/HB	Pegasus/mod orig feed	4.3	22.5	10.368 MHz
K0MHC	24" Center-fed dish - Dual feed	Comm	Commerical with Directive Systems feed	8.0	30.5	Feed mod to 10GHz
K0MHC	2' Center-fed dish - Dual feed	Comm	Commerical with Directive Systems feed	10.5	33.0	5.6 & 10.3 GHz feed; 5.6 not used/tested
W3XO	Dual feed	Comm	Directive Systems feed	10.5	33.0	5.6 & 10.3 GHz feed; 5.6 not used/tested
K0MHC	19" DSS	Comm/HB	Dish Network/mod orig feed	10.7	33.2	Feed mod to 10GHz
K5LLL	2' DSS	Comm/HB	PrimeStar w/3/4" pipe feed	11.0	33.5	Orig design for multiple satellites
K0MHC	19" DSS	Comm/HB	Mod orig feed	12.0	34.5	"Loaner" system
K0MHC	2' Dish 1m offset feed	Comm	"White box" w/orig feed Channel Master/mod orig feed	13.0	35.5	
K0MHC	10/24 GHz Dish Feed	Comm/HB	Cross-polarized dual feed	18.0	40.5	Feed mod to 10GHz

24GHz

CALL	TYPE	MFG	DESCRIPTION	MEASURED dB	GAIN dBi	COMMENTS
WB0DBS	10/24 GHz Dish Feed	Comm	Cross-polarized dual feed	-12.	8.7	
K5RUS	Horn	Comm	Ref Antenna Lens/Horn 24.5-26.6GHz	-10.0	10.7	24.192 MHz
K5RUS	Horn	Comm	Lens/Horn 24.5-26.6GHz	-16.2	20.7	
K5RUS	Horn	Comm	Lens/Horn 24.5-26.6GHz		36.9	