

		<i>user supplied</i>	<i>Rx test meas</i>		Range	419	ft		
	7/19/2015	50 MHz and	mgf			SORTED BY Measured MDS (incl. ant.)			
	10 GHz					95	dB Path Loss		
Name	Call	Dish size "	MDS Gen dBm	MDS Atten	Calc Ant Gain	Meas MDS (includes Ant Gain)	Meas MDS (excludes Ant Gain)	Implied NF assuming 500 Hz BW	
Gary L	AD6FP	48	-45	20	39.4	-190	-150	-3.2	AD6FP
Brian Yee	W6BY	30	-42	20	35.3	-187	-151	-4.3	W6BY
Mike L	K6ML	20	-37	20	31.8	-182	-150	-2.8	K6ML
Brian Kline	WA6QDP	18	-36	20	30.8	-181	-150	-2.7	WA6QDP
Oliver B	KB6BA	18	-18	20	30.8	-163	-132	15.3	KB6BA
David Vieira	KI6CLA	12" panel	-17	20	25.0	-162	-137	10.5	KI6CLA
Brian W	K6OJM	18	-4	20	30.8	-149	-118	29.3	K6OJM
	24 GHz					103	dB Path Loss		
Name	Call	Dish size "	MDS Gen dBm	MDS Atten	Calc Ant Gain	Meas MDS (includes Ant Gain)	Meas MDS (excludes Ant Gain)	Implied NF assuming 500 Hz BW	
Brian Yee	W6BY	30	-24	20	42.6	-183	-140	6.5	W6BY
Gary L	AD6FP	48	-23	20	46.7	-182	-135	11.6	AD6FP
Brian Kline	WA6QDP	18	-9	20	38.2	-168	-130	17.1	WA6QDP
Ant gain Calc assumes 64% efficiency =7+20*LOG(size inches/12)+20*LOG(freq in GHz)									
Measured MDS = Sig Gen Level - Attenuator - Pathloss - Cable & Mixer loss + Horn gain									
Path Loss = -37.5+20*LOG(Dist in feet)+20*LOG(Freq MHz)									