

July 18, 2011 SDMG EIRP/MDS Event						Range	220			89
10 GHz NB										Path Loss dB
Call	Dish size "	Output dBm	ERP PM dBm	Atten. Value dB	MDS Gen dBm	Calc Ant Gain	Calc ERP dBm	Meas ERP	Meas-Calc	
WB6TFC 1	41.5	27	-13	20	-82	38	65	65	0	
WB6TFC 2	41.5	27	-12	20	-85	38	65	66	1	
KD0IF	22	27	-22	20	-81	33	60	56	-3	
K6DYD	48	44			-79	39	83	N/A	N/A	
K6VCR	30	25	-15	20	-76	35	60	63	3	
W6OYJ	30	28	-17	20	-80	35	63	61	-2	
KE6PBH	20	27	-26	20	70	32	59	52	-6	
KI6ACI	12	26	-25	20	-69	27	53	53	0	
KJ6GYC	12	20	-12	0	-70	27	47	46	-1	
NB frequency is 10368 MHz, IF is 144 MHz with 18 dB cable loss & amp gain of 46 dB										
NB frequency is 24192 MHz, IF is 147 MHz with 18 dB cable loss ( used 44 dB premp this time)										
Ant gain Calc assumes 64% efficiency =7+20*LOG(size inches/12)+20*LOG(freq in GHz)										
Measured ERP = Power meter reading+Attenuator + Pathloss +Cable & Mixer loss-Amp & Horn gain										
Path Loss = -37.5+20*LOG(Dist in feet)+20*LOG(Freq MHz)										
Replaced FW brick with QC Synth on 10GHz unit										