10 GHz NB	July 16 2007 SDMWG EIRP/MDS Event					Range Feet	220		Path Loss dB	89
10368 MHZ										
Call	Dish size "	Output dBm	ERP PM dBm	Atten. Value dB	MDS Gen dBm	Calc Ant Gain	Calc ERP dBm	Meas ERP	Meas-Calc	
W6OYJ	30	24	-8	10	-82	35	59	60	1	
AE6QU	30	27	-20	10	-80	35	62	48	-14	
K6NKC	30	31.6	-2.8	10	-84	37	69	66	-3	
24 GHz NB	with RX preamp									
24192 MHz	Dish Size									95
W6OYJ	24	18	-5	10	-55	41	59	39	-19	
47 GHz NB	with RX Preamp									103
47088 MHz										
K6NKC	12	-8	-48	10	-53	40	32	33	0	
W6OYJ	12	-8	-69	10	0	40	32	12	-21	
WB frequency is 10280 MHz, IF is 57 MHz RX with 10.5 dB cable loss & amp gain of 46 db										
WB frequency is 10250 MHz, IF is 27 MHz TX										
NB frequency is 10368 MHz, IF is 145 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										
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)										
noise floor on 47 GHz is -80 dBm										