

July 30, 2011 SDMG-SBMS 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			
K6BNN	18	23	N/A		-62	31	54	N/A	N/A			
WB6DNX	36	26	-15	20	-82	37	63	63	0			
N6RMJ1	30	39	-7	20	-88	35	74	71	-3			
W6QIW	30	39	-12	30	-94	35	74	76	2			
N9RIN	36	33	-8	20	-78	37	70	70	0			
AF6NA	20.1875	35	-9	20	-85	32	67	69	2			
KH6WZ	13db	39	-24	10	-45	13	52	44	-8	60MNI		
W6SZ	30	25			-76	35	60	58	N/A	MDS-93 wsjt		
KN6VR	30				-49	35	35	58	N/A			
WB6DNX2	17DB	24	-14	0	-62	17	41	44	3			
AF6NA	17DB	35	-22	0	-49	17	52	36	-16			
WB6DNX3	17DB	26	-19	0	-55	17	43	39	-4	160MNI		
KJ6HZ	30	34	-20	0	-72	35	69	38	-31			
WALTER	18				-15	31				RADIOMETER		
24 GHZ NB	TEST RANGE	NOT	AVAIL	THIS	BAND	TODA				95		
N6RMJ	34	34				34	68	N/A		Path Loss dB		
W6QIW	24	21				41	62	N/A				
KC6QHP	12	30				35	65	N/A				
K6JEY	12	27				35	62	N/A				
47GHZ										90	Range feet	50
										Path Loss dB		
KC6QHP	12	25	-23	30	-76	40	65	53	-13			
W6QIW	24	1	-22	20	-83	46	47	44	-4			
K6JEY	12	1	N/A		-91	40	41	N/A	N/A	CW FILTER		
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 preabmp 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 2010												