2013 Tune Up Results

SDMG-SBMS2013

							Range Feet	220			89	
July 27, 2013 SDMG-SBMS EIRP/MDS Event											Path Loss dB	
10 GHz NB												
Call	Dish size "	Output dBm	ERP PM dBm	Atten. Value dB	MDS Gen dBm	Calc Ant Gain	Calc ERP dBm	Mea s ERP	Meas-Calc			
N5BF	20.2	35	-11	20	-85	32	67	67	0			
N6EQ	24	35	-10	20	-82	33	68	68	0			
W6DQ	13Db	39	-23	0	-52	13	52	35	-17			
W6QIW	30	39	-12	30	-90	35	74	76	2			
N9RIN	30	38	-15	20	-72	35	73	63	-10			
AF6NA1	33	35	-6	20	-88	36	71	72	1			
AF6NA2	2ND LNA				-89							
AG6QV	18	23	-19	10	-70	31	54	49	-5			
WB6DNX1	17db	30	-18	10	-63	17	47	50	3			
WB6DNX2	13Db	30	-23	10	-59	13	43	45	2			
WB6NOA	24	31	-14	0	-65	33	64	44	-20			
KC6QHP	18	30	-5	10	-84	31	61	63	2			
N9RIN-2	36	36	-9	20	-80	37	73	69	-4			
N6MN	24	23			-54	33	56	58	2			
KB6CJZ	18	25	-14	10	-73	31	56	54	-2			
24 GHz NB											95	200
W6QIW	23	20	-18	30	-76	40	60	63	3			
47GHZ											102	200
K6JEY	12	2	-25	10	-84	40	42	43	1			
W6QIW	17	5	-9	20	-102	43	48	69	20			
79.8 GHZ											107	200
K6JEY	16	-10	-47	0	-45	48	38	36	-2			

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