

50 MHz and Up ERP/MDS Event 7/28/2019

Range **410** feet

10.368 GHz

Noise floor	8	dBm	Range Loss	124.4	dB	ERP loss	67.4	dB
1st reflect. peak	60	inches high at		10.368				
Meas ref ERP	44.4	dBm		37	above noise floor			
Calc ref ERP	46	dBm		-1.6	meas-calc ref			

User Supplied Info				& Expected ERP		ERP Measurement			Difference
Operator	Call	PA Out dBm	Dish Size (in)	Calc Ant Gain	Calc ERP dBm	Meter dBm	dB Atten	ERP dBm	Meas - Calc ERP
David V	KI6CLA	33.0	12" panel	25.0	58	-15	10	62	4
Chris V	N6JET	34.8	20.5	32.0	67	-20	20	67	1
Andreas	N6NU	40.0	18.1	30.9	71	-19.5	20	68	-3
Steve S	N6KLD	34.8	20.5	32.0	67	-19	20	68	2
Dave F	AD6A	39.0	18.1	30.9	70	-18	20	69	-1
Brian W	K6OJM	34.0	23.6	33.2	67	-17	20	70	3
Mike L	K6ML	40.8	23.6	33.2	74	-14	20	73	-1
Brian K	WA6QDP	42.0	18.1	30.9	73	-7	20	80	7

User Supplied Info				MDS Measurement			Derived Results	
Operator	Call	Dish Size (in)	Calc Ant Gain	Signal dBm	dB Atten	MDS @ Ant	MDS @ Rx	Compared to 500 Hz 2 dB NF
Chris V	N6JET	20.5	32.0	-16	20	-160	-128	17
Dave F	AD6A	18.1	30.9	-16	20	-160	-129	16
David V	KI6CLA	12" panel	25.0	-29	10	-163	-138	7
Mike L	K6ML	23.6	33.2	-38	20	-182	-149	-4
Brian W	K6OJM	23.6	33.2	-38	20	-182	-149	-4
Steve S	N6KLD	20.5	32.0	-38	20	-182	-150	-5
Brian K	WA6QDP	18.1	30.9	-38	20	-182	-151	-6
Andreas	N6NU	18.1	30.9	-39	20	-183	-152	-7

24.192 GHz

noise floor	25.9	dBm	Range Loss	141.9	dB	ERP loss	84.9	dB
First peak	62	inches high at		24.192				
meas ref ERP	25.9	dBm		0	above noise floor			
calc ref ERP	47	dBm		-21.1	meas-calc ref			

User Supplied Info				& Expected ERP		ERP Measurement			Difference
Operator	Call	PA Out dBm	Dish Size (in)	Calc Ant Gain	Calc ERP dBm	Meter dBm	dB Atten	Meas ERP	Meas - Calc ERP
Andreas	N6NU	34.8	18.1	38.2	73	-49.5	0	35	-38
Joel	KD6W	31.0	18.1	38.2	69	-40.5	0	44	-25
Brian K	WA6QDP	28.8	18.1	38.2	67	-40.5	0	44	-23
Mike	K6ML	34.8	23.6	40.5	75	-37.0	0	48	-27
Chris V	N6JET	34.8	20.5	39.3	74	-36.5	0	48	-26

User Supplied Info				MDS Measurement			Derived Results	
Operator	Call	Dish Size (in)	Calc Ant Gain	Signal dBm	dB Atten	MDS @ Ant	MDS @ Rx	Compared to 500 Hz 2 dB NF
Joel	KD6W	18.1	38.2	-10	20	-172	-134	11
Andreas	N6NU	18.1	38.2	-11	20	-173	-135	10
Chris V	N6JET	20.5	39.3	-17	20	-179	-140	5
Brian K	WA6QDP	18.1	38.2	-19	20	-181	-143	2
Mike	K6ML	23.6	40.5	-28	20	-190	-149	-4