

June 2008 Scan 103 Beam 1 & 2 FF

From Andrey - direct FT

Enter values below	Derived parameters
Freq 661 GHz	k 13853.56 m ⁻¹
Sec dist 6000 mm	Edge ang 3.58 deg
Sec radius 375 mm	Feed x,y 0.000 -100.000 mm
Feed rad 100 mm	Nom u,v 0.0000 -0.9550 deg
Feed az -90 deg	Inner 3.43
Step size 0.30 deg	Outer 3.73
Nom Z_off 300 mm	Fitted cen -0.1108 -1.0070
	Mom -0.0561 -0.9822
	Phase model in radians
	slope_u slope_v curve
	-0.679 2.102 -1.255

Direct	Peak dB	Edge dB	spill %	u & v moments mrad	eta_spill	eta_taper	eta_ill
calculation	6.64	-10.52	5.06	-0.98 -0.48	0.9494	0.8991	0.8536

Fit_phase	phi_err	X,Y&Z off in frame of nom beam			eta_phi	eta_tot_np
minimize	0.40	2.81	-8.69	297.37	0.9960	0.8501
in frame of scanner		2.81	-3.74	297.37	check	0.8501

Fit_amp	amp_err	amp	width(deg)	u_off(deg)	v_off(deg)	D_0-90	D_45-135	N
minimize	0.22	0.962	2.699	-0.11	-0.05	-0.065	0.014	2.000
	both_errors				moments in degrees			const(deg)
minimize	0.62				-0.05608	-0.02725		-123.16
sumsq	182.33	172.25	108.30	sumsq	120.64	51.60		0.22 N_pts
sum	380.2024	327.68	243.25	173.10	sum	-203.22	-132.79	0.03 128.00

June 2008 Scan 103 Beams 1 & 2 FF

from Josh - using NSI

Enter values below	Derived parameters
Freq 661 GHz	k 13853.56 m ⁻¹
Sec dist 6000 mm	Edge ang 3.58 deg
Sec radius 375 mm	Feed x,y 0.000 100.000 mm
Feed rad 100 mm	Nom u,v 0.0000 0.9550 deg
Feed az 90 deg	Inner 3.43
Step size 0.30 deg	Outer 3.73
Nom Z_off 300 mm	Fitted cen 0.2708 1.1592
	Mom 0.1449 1.0604
	Phase model in radians
	slope_u slope_v curve
	-0.802 2.018 1.286

Direct	Peak dB	Edge dB	spill %	u & v moments mrad	eta_spill	eta_taper	eta_ill
calculation	-77.74	-10.71	5.08	2.53 1.84	0.9492	0.8887	0.8435

Fit_phase	phi_err	X,Y&Z off in frame of nom beam			eta_phi	eta_tot_np	eta_pol	eta_tot_nd
minimize	0.43	3.32	-8.35	-304.74	0.9957	0.8399	0.9265	0.7781
in frame of scanner		3.32	-3.27	-304.74	check	0.8399		

Fit_amp	amp_err	amp	width(deg)	u_off(deg)	v_off(deg)	D_0-90	D_45-135	N
minimize	0.21	0.960	2.674	0.27	0.20	-0.060	0.015	2.000
	both_errors				moments in degrees			const(deg)
minimize	0.65				0.144888	0.105468		-152.78
sumsq	177.95	168.06	105.29	sumsq	35.39	132.67		0.21 N_pts
sum	380.2024	319.65	238.90	168.91	sum	-109.02	-211.99	0.06 128.00