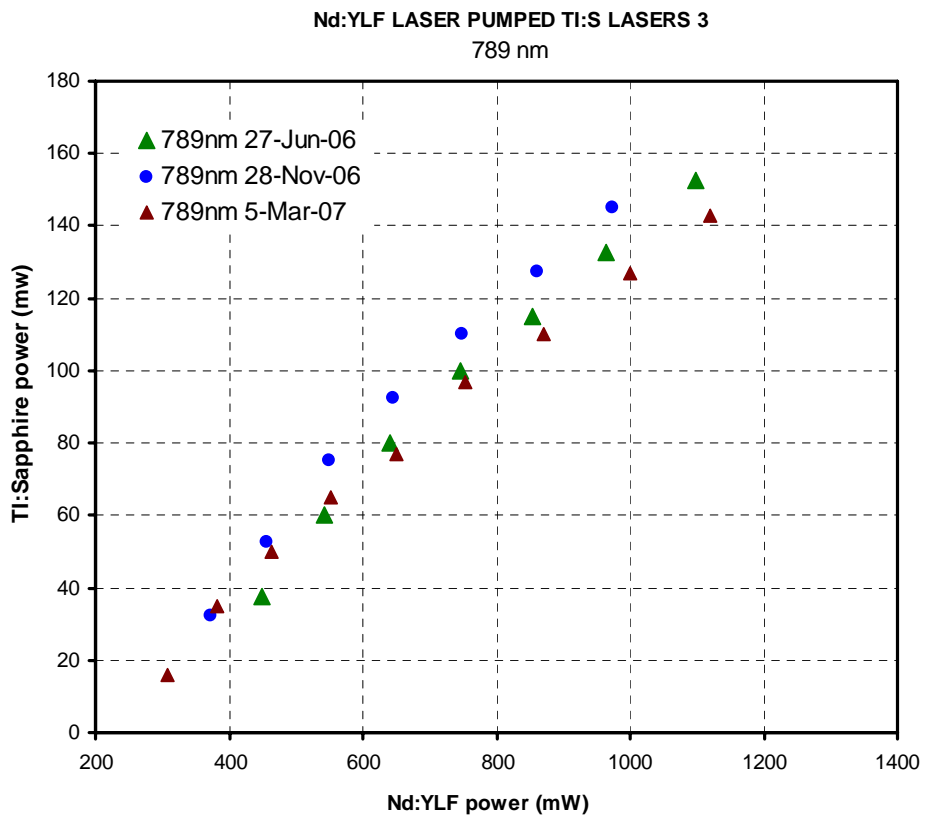
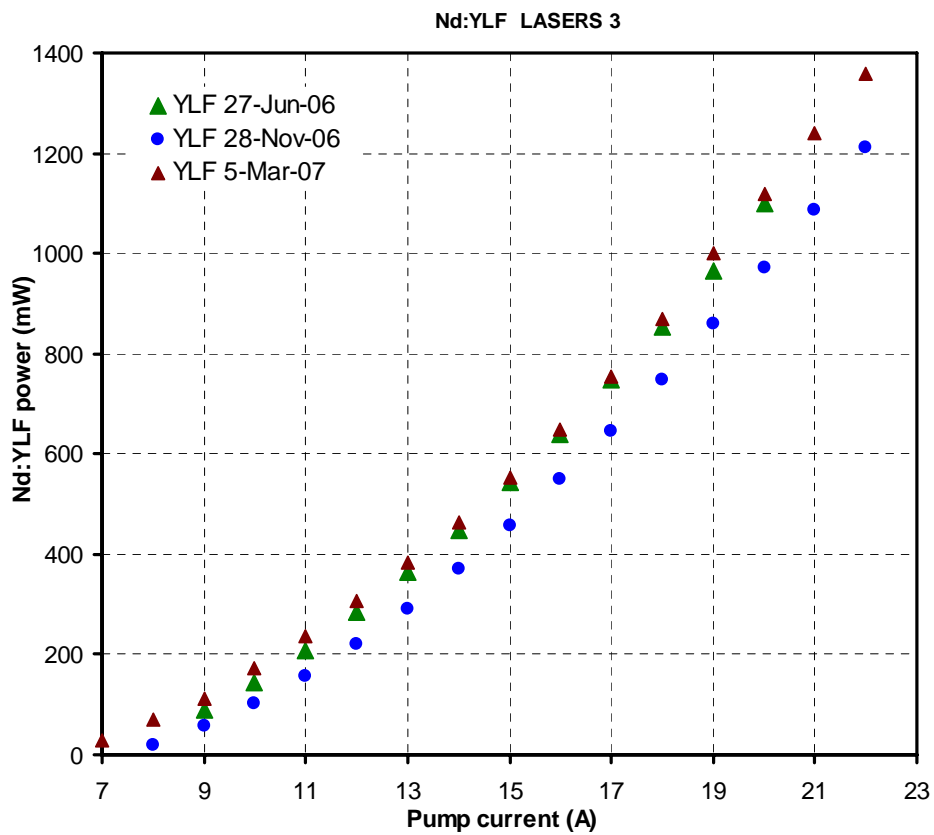


Laser3 installation at USC55

New YLF LBO



YLF3: tuning , new LBO

1) Without LBO, 12% Transmission mirror

power (W)

T=8.5

10	2.3
15	11.5
20	23.6
25	37.4

2) Qmode 1KHz

power (W)

T=8.6

10	0.8
15	5.5
20	10.5
25	16.5

Ired FWHM= 150ns

3) LBO, CW power (check insertion loss)

power (W)

T=7.7

10	1.9
15	9.5
20	20
25	33.5

4)HT/HR

optimize green 12A

4.8W @ 15A @ 1KHz

100Hz: T=7A, FWHM=177ns

Current	YLF	789nm	700nm
A	5-Mar-07	5-Mar-07	5-Mar-07
7	30		
8	70		
9	113		
10	173		
11	237	T=11.7	
12	308	16	
13	383	35	
14	463	50	T=14
15	552	65	6
16	650	77	11
17	754	97	16
18	870	110	20
19	1000	127	25
20	1120	143	28
21	1240		
22	1358		