un 1			
tatic Data		Start Time (peltier on): 3:21 AM	
Size of cold stage:	51 mm	End Time (peltier off): 16:20	
leight of cold stage:	8 mm		
racuum pressure (set)	50 Pa	Staritng vaume pressure for inital growth: 7	
Z/TILT (distance of detector from stage)	5um	The pressure quickly reached 50 Pa and re	mained for the rest of the run
acuum current	12kv		
robe current	90	0	
Additional Comments			
Additional Comments			
Cinetic Data			
ime	Action/observation	Temperature (actual) Crystal Size	
3:2	Set temp to -35		
	24 hit -35	start	
	set temp to -32 to stop growth	400x200um	
	81 hit -32.8	-32.8	
	vacume pressure is 50 Pa and temp is ablating the cyrstal	-02.0	
		00.7	
	33 set temp to -33	-33.7	
	crystal has stabilized and a 3D image was taken of the smooth crystal (case 1.0)	-33.7	
	set temp to -31		
	ablation occuring	-31.8	
	set temp to -32 to slow ablation		
3:4	3D immage of ablation roughening taken (case 1.1 (note that the case number was determined to be the same crystal as case 1.0 a few days after immaging occured	d -32.8	
3:	51 set to -34		
3:5	hit temp	-34.4	
	set to -35 to speed up growth	-35.6	
	59 crystals experiencing growth roughening	-35.6	
	of set temp to -33 to take pictures of growth roughening	00.0	
	3D immage taken (case 2.0 (note: case number/order determined a few days after immaging occured using timestamps))	-33.7	
		-55.1	
	ablation may have been occuring		
	96 set to -31 to try and induce more ablation	-32	
	crystal seems to be losing shape	-31.7	
	set to -35 to try and regain shape	-35	
	crystal seems to be merging with another and has not regained its orignal shape		
	other cystal observed with better geometry (is the electron beam affecting the growth?)		
4:	seems the ice vial is low		
4:	9 ended run		
Run 2 (observations and growth rate at -4	OC and 50Pa)		
Static Data		Start Time (peltier on): 5:23 AM	
Size of cold stage:	51 mm	End Time (peltier off): 17:47	
Height of cold stage:	8 mm	End Time (petiter on).	
vacuum pressure (set)	Started at 70 Pa		
Z/TILT (distance of detector from stage)	5um		
racuum current	12kv		
probe current	8:	5	
Additional Comments			
additional Comments			
(inetic Data			
ime	Action/observation	Temperature (actual) Crystal Size	
5:3	Pressure at 110 and peltier set to -35		
	Pressure at 90 and	-5 none	
	Pressure at 70	-25 none	
	Pressure at 50	-31 first crystals appe	ar
	Pressure at 60 Pressure at 60		e less symetrical but some are good
	Pressure at 70	-34.9 crystals appear n	iore circular in general
	Pressure set to 60	-35	
	Pressure finally reached 60	-34.9 appearence is the	e same
	Growth roughness observed (the crystals seem fatter however)	-34.9	
5:4	Set pressrue to 50 Pa	-34.9	
5:4	Pressure has hit 50	-34.9 appearence is sir	nilar
5:4	Hard to tell but more angular sides to crystals may be forming (however they are still too blobular and their shape is not in the desired geometry)	-34.9	
	Nothing more is being observed (in terms of growth pattern change)		
	7 Experiment ended		

5:47 Experiment ended