

Run 1					
Static Data			Start Time (peltier on):	3:21 AM	
Size of cold stage:	51 mm		End Time (peltier off):	16:20	
Height of cold stage:	8 mm				
vacuum pressure (set)	50 Pa		Staritng vaume pressure for inital growth: 70		
Z/TILT (distance of detector from stage)	5um		The pressure quickly reached 50 Pa and remained for the rest of the run		
vacuum current	12kv				
probe current		90			
Additional Comments					
Additional Comments					
Kinetic Data					
Time	Action/observation	Temperature (actual)	Crystal Size		
3:21	Set temp to -35				
3:24	hit -35		start		
3:31	set temp to -32 to stop growth		400x200um		
3:31	hit -32.8	-32.8			
3:32	vacume pressure is 50 Pa and temp is ablating the cyrstal				
3:33	set temp to -33	-33.7			
3:38	crystal has stablabized and 3D	-33.7			
3:40	set temp to -31				
3:41	ablation occuring	-31.8			
3:46	set to -32 to take pictures				
3:49	taking rough pictures (3D)	-32.8			
3:51	set to -34				
3:52	hit temp	-34.4			
3:54	set to -35 to speed up growth	-35.6			
3:59	crystals experiencing growth rc	-35.6			
4:01	set temp to -33 to take pictures of growth roughening				
4:03	taking pigures	-33.7			
4:05	ablation may have been occuring				
4:06	set to -31 to try and induce mor	-32			
4:07	crystal seems to be losing sha	-31.7			
4:08	set to -35 to try and regain sha	-35			
4:12	crystal seems to be merging with another and has not regained its orignal shape				
4:12	other cystal observed with better geometry (is the electron beam affecting the growth?)				
4:18	seems the ice vial is low				
4:19	ended run				
Run 2 (observations and growth rate at -40C 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				
vacuum pressure (set)	Started at 70 Pa				
Z/TILT (distance of detector from stage)	5um				
vacuum current	12kv				
probe current		85			
Additional Comments					
Additional Comments					
Kinetic Data					
Time	Action/observation	Temperature (actual)	Crystal Size		
5:23	Pressure at 110 and peltier set to -35				
5:25	Pressure at 90 and	-5	none		
5:26	Pressure at 70	-25	none		
5:28	Pressure at 50	-31	first crystals appear		
5:29	Pressure at 60	-35	many appear to be less symetrical but some are good		
5:33	Pressure at 70	-34.9	crystals appear more circular in general		
5:34	Pressure set to 60	-35			
5:36	Pressure finally reached 60	-34.9	appearence is the same		
5:38	Growth roughness observed (tl	-34.9			
5:40	Set pressrue to 50 Pa	-34.9			
5:42	Pressure has hit 50	-34.9	appearence is similar		
5:45	Hard to tell but more angular si	-34.9			
5:47	Nothing more is being observed (in terms of growth pattern change)				
5:47	Experiment ended				