

Run 1				
Static Data			Start Time (peltier on):	12:34 PM
Size of cold stage:	51 mm		End Time (peltier off):	13:29
Height of cold stage:	8 mm			
vacuum pressure (set)	50 Pa			
Z/TILT (distance of detector from stage)	5um			
vacuum current	12kv			
probe current		90		
Additional Comments	For this run I waited untill the vaccum pressure was 60Pa to start			
Additional Comments	It pretty quickly turned to 50 Pa			
Kinetic Data				
Time	Action/observation		Temperature (actual)	Crystal Size
12:34	set temp to -35		25	
12:38	crystaks observed		-35	
12:41	set temp to -32			
12:48	took 3D image (Case 1.0)			
12:48	set to -25 to ablate		-26	
12:50	ablated to fast (set to -32)		-32.8	
12:54	set to -30 to see slower ablation			
12:56	slow ablation (pockmarks occuring somehow)		-30.8	
12:56	set temp -32		-32.6	
1:00	took 3D image (Case 1.1 (note: that the case number was determined to be the same crystal as case 1.0 a few days after imaging occurred		-32.8	
1:02	set to -30 to see ablation		-30.8	
1:05	set to -31			
1:06	seems to be holding shape relativly well		-31.8	
1:08	set to -33		-33.7	
1:10	good steady re-growth		-33.7	
1:11	set -34		-34.6	
1:14	perfect re-growth		-34.7	
1:20	growth roughening is appearing but pyrimidal facets appear to be retaining their ablation roughening to an extent		-34.6	
1:23	set to -33 to slow growth			
1:23	set to -32 to slow even more			
1:24	took 3D image (Case 2.0 (note: case number/order determined a few days after imaging occurred using timestamps))		-32.7	
1:27	set to -34		-34.6	
1:29	ended experiment		-34.6	
Run 2				
Static Data			Start Time (peltier on):	2:12 AM
Size of cold stage:	51 mm		End Time (peltier off):	2:34
Height of cold stage:	8 mm			
vacuum pressure (set)	50 Pa			
Z/TILT (distance of detector from stage)	5um			
vacuum current	12kv			
probe current		90		
Additional Comments	vial was not compleaty frozen when I started			
Additional Comments				
Kinetic Data				
Time	Action/observation		Temperature (actual)	Crystal Size
2:12	set temp to -35		pressure is 140	
2:14	temp is -27 and pressure is 80 (it is taking a lot longer to reach)			
2:14	crystals observed (pressure 60 Pa)		-28	start
2:18	crystal has good morphology		-35	300x150um
2:19	set to -33 to hold shape		-33.6	
2:21	set -32		-32.8	
2:25	set -35 to try and grow new crystals (test)		-34.7	
2:30	nothing is occuring			
2:32	nothing is occuring (besides slow growth of blobular ice crystals)			
2:34	ending experiment		-34.9	