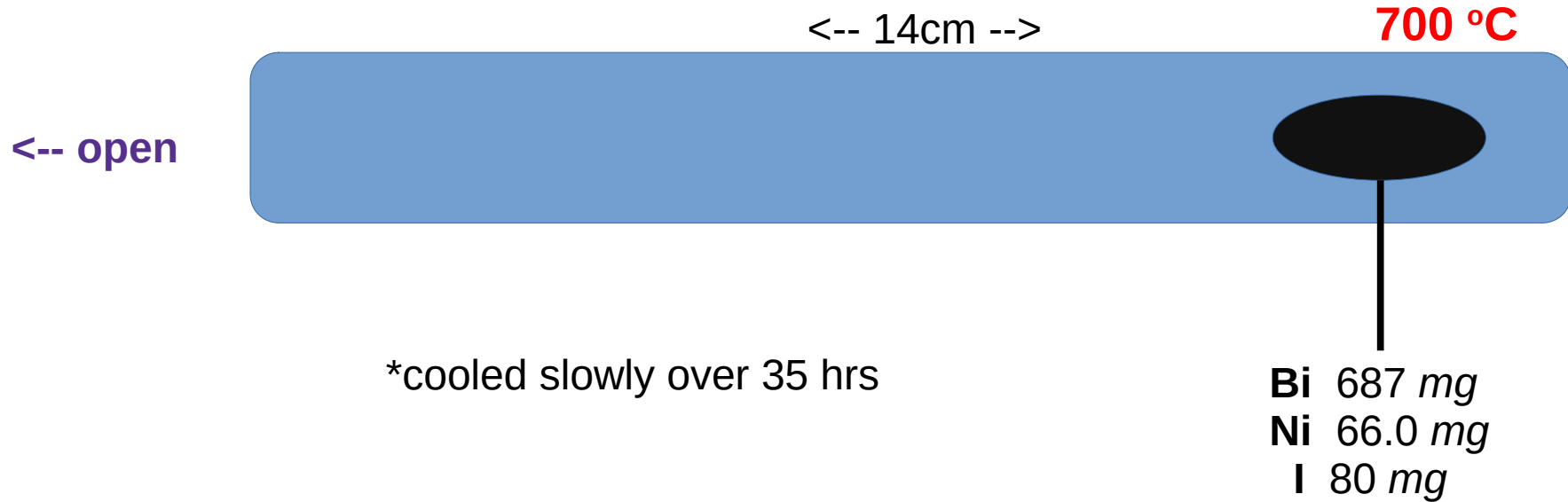


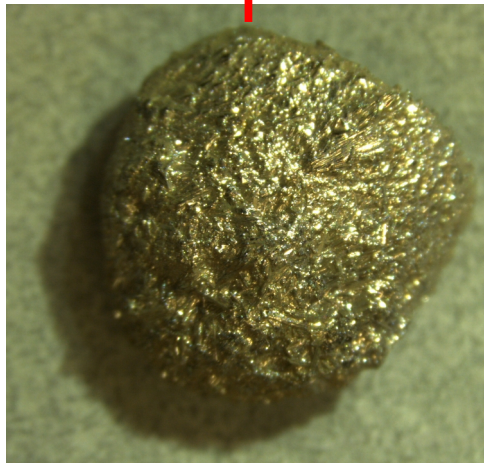
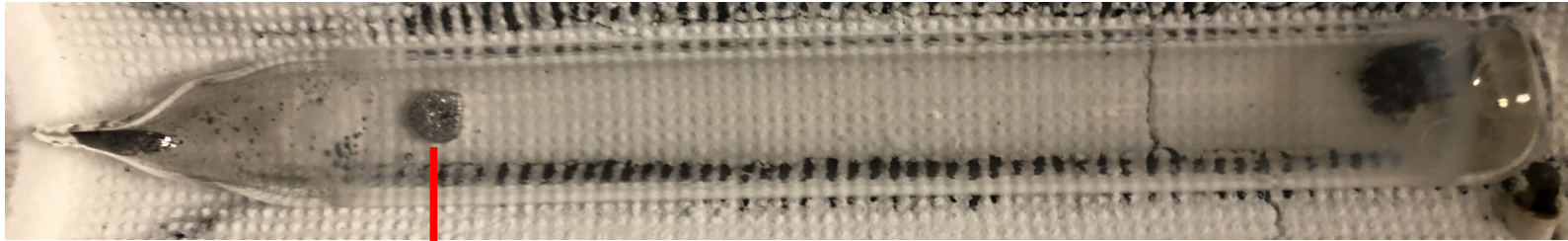
NiBi₃ CVT Growths

July Update: JAH007-009

JAH007

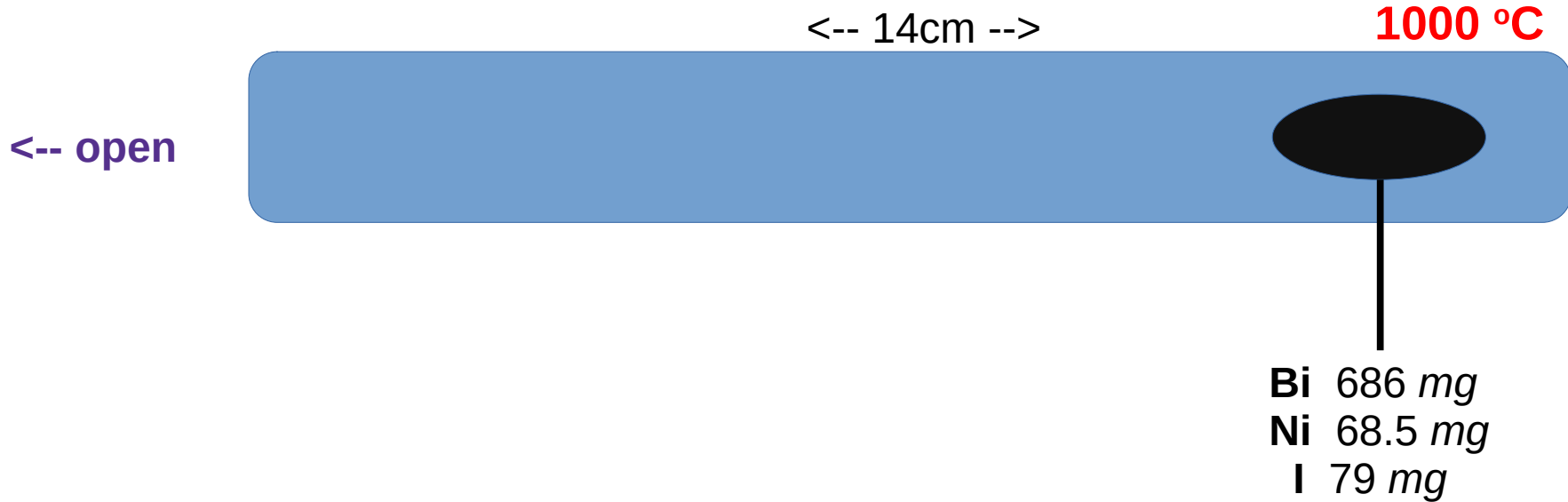


JAH007

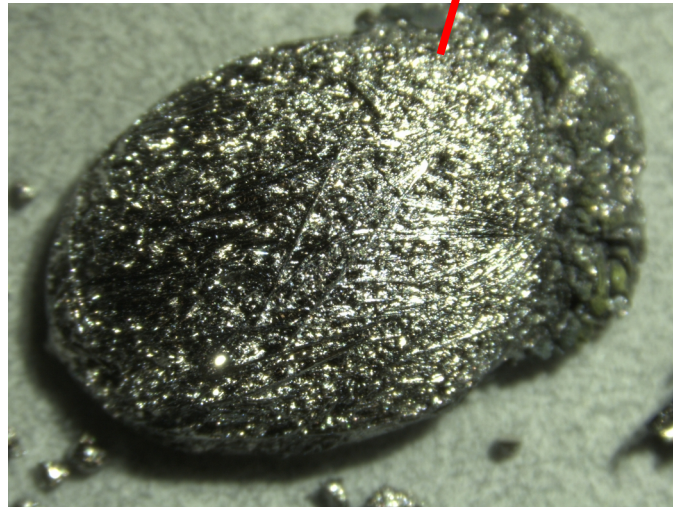
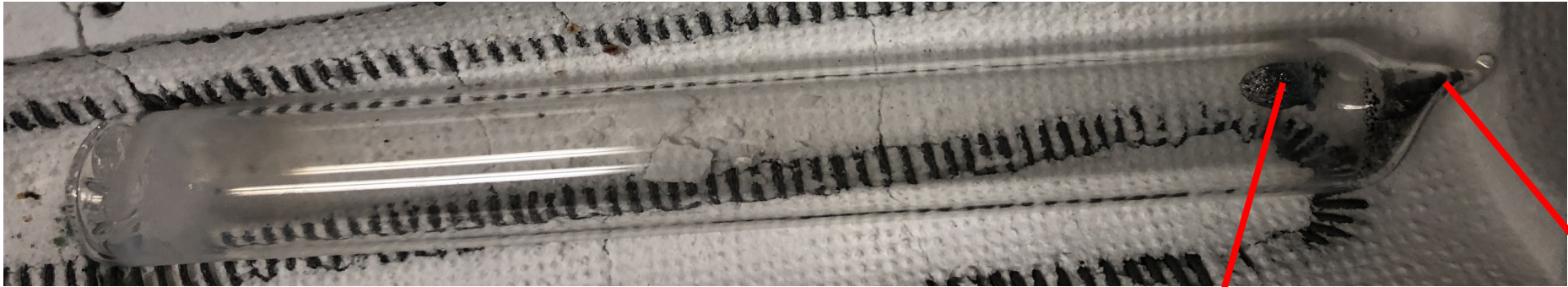


(Yellow color is a camera saturation artifact)

JAH008



JAH008



JAH009

825 °C

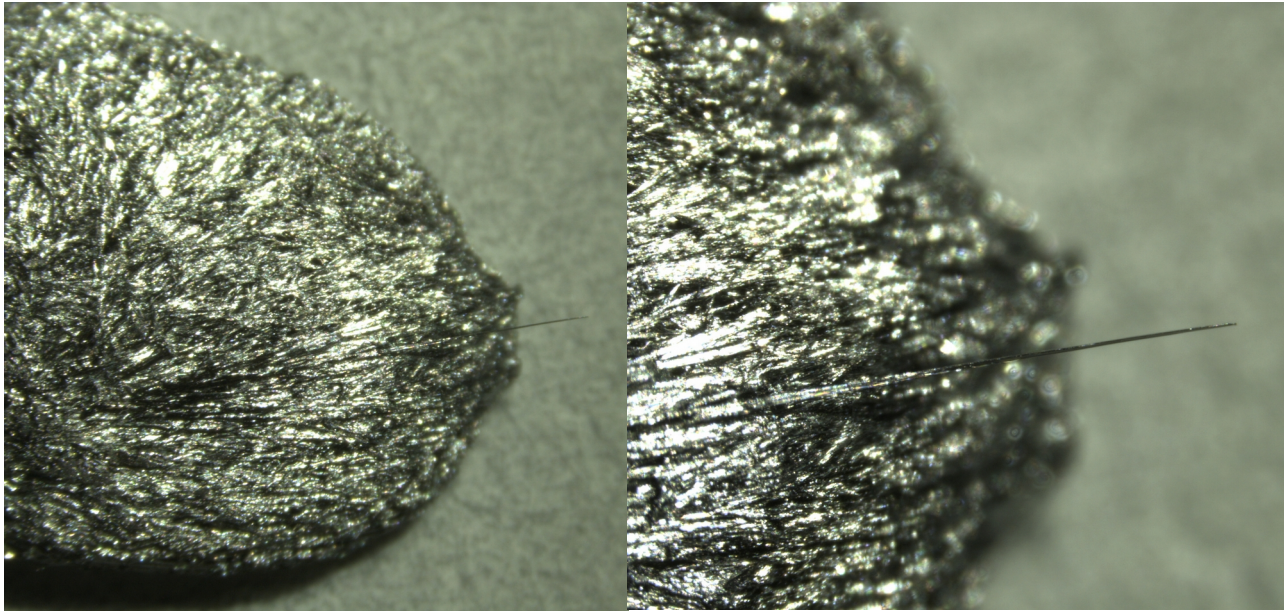
<-- 20 cm -->

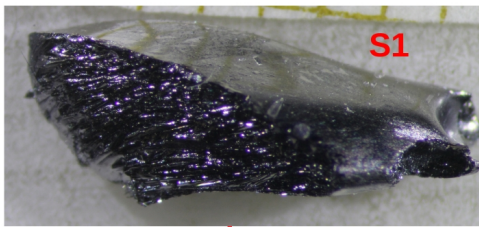
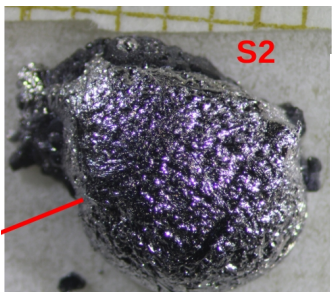
875 °C



Bi 688 mg
Ni 66.8 mg
I 159 mg

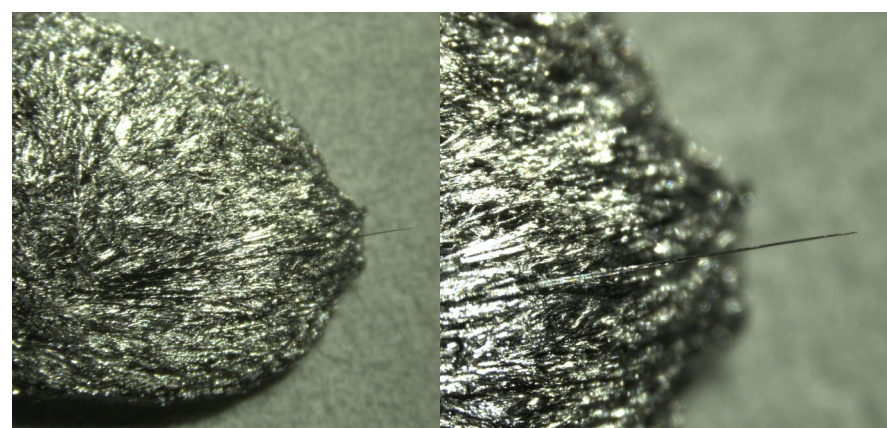
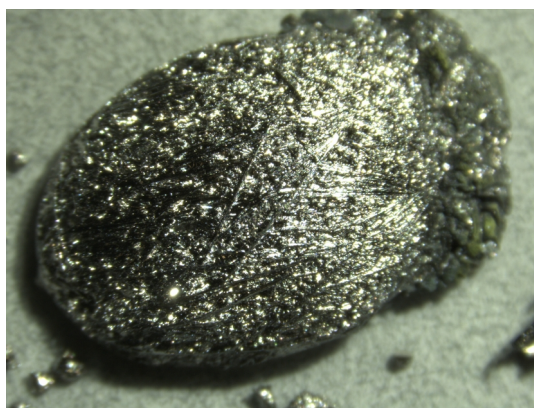
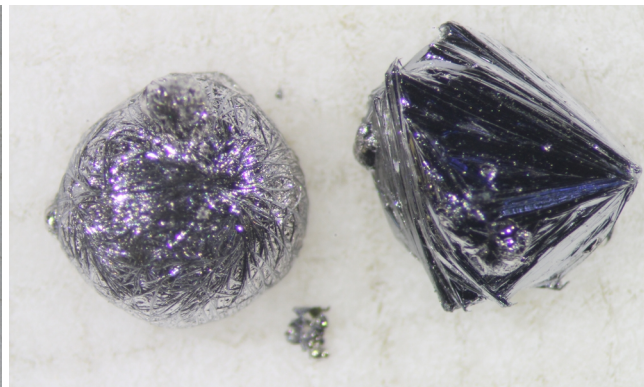
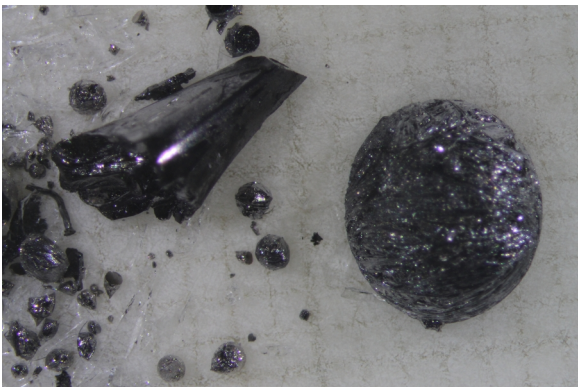
JAH009



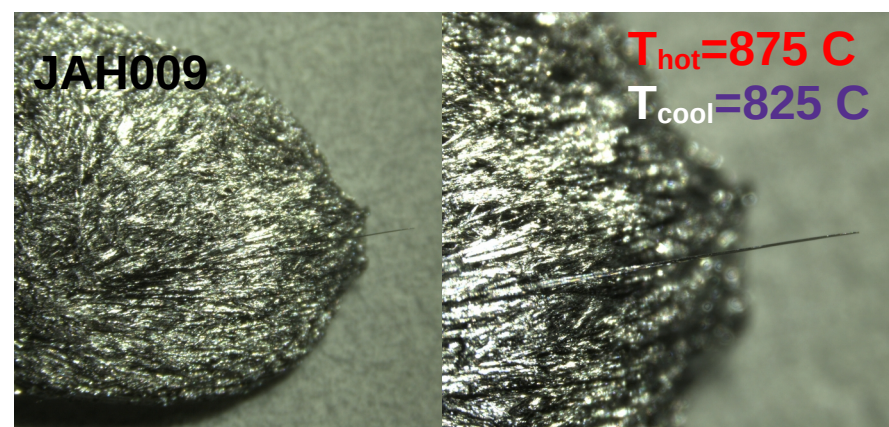
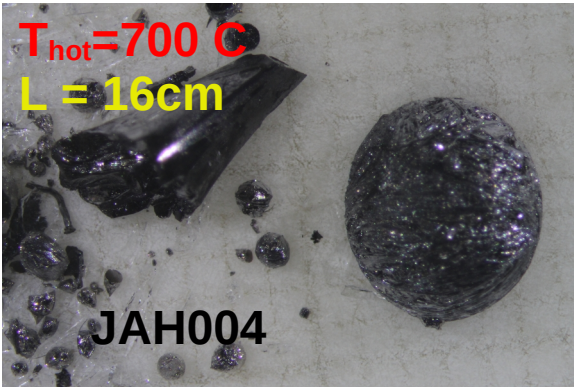
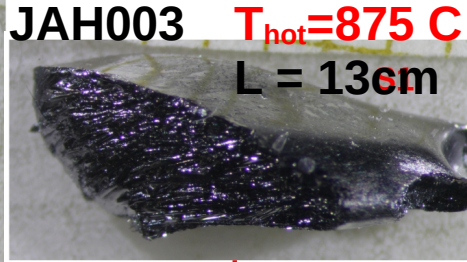
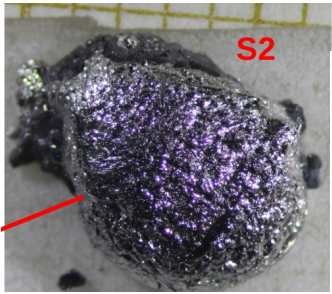


RECAP OF GROWTHS

(without labels in the way)



RECAP OF GROWTHS



RECAP OF GROWTHS

	700 °C	875 °C	1000 °C
Single zone 13-14cm	JAH007	JAH003	
Single zone 16-17cm	JAH006* JAH004	JAH005	JAH008
3-zone $\Delta T = 50\text{cm}$		JAH009	

*Pre-reacted NiBi₃

Poorly crystallized

Thin needles

Thick needles

Discussion: Future Growths

- Less iodine
- Use Cl as transport agent
- Variable cold zone: from $\Delta T=0$ to $\Delta T\sim 40^{\circ}\text{C}$
- Force nucleation sites by shaking ampoule to get some of the powder on the cool end