## ICP1: recipe = #104 Ta Etch

(developed by Bill Mitchell, Nanofab process group)

Substrate structure	Ta(35nm)/SiO2(300nm)/Si
Masking resist	HSQ(~120nm)
Plasma Powers	
ICP	500W
CCP[bias]	50W
Gas Flows	
CI2	30sccm
BCl3	10sccm
Ar	Osccm
<u>Gas Pressures</u>	
Etch step	1Pa
Ignition step	1Pa (no Cl2 in initial step to avoid thermal etch component!)
Etch Data	
Etch Rate (via laser monitor)	Ta ~ 70nm/min, HSQ ~ 65nm/min
Etch angle	~81 degrees (<90° => tapered)

