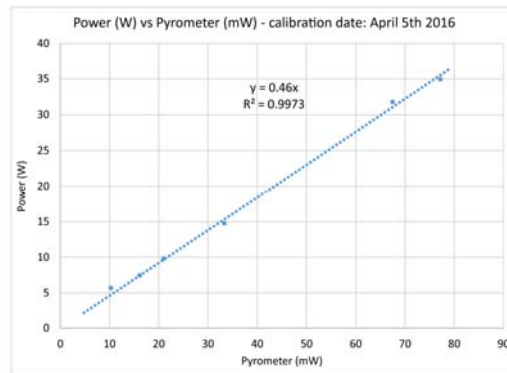
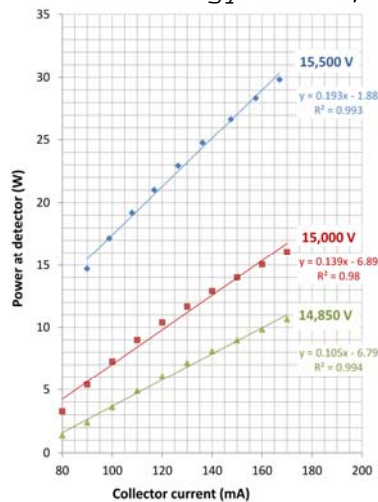


Instructions for gyrotron operation (13MAY2016)

NOTE: do not switch the microwaves on or off when sample is spinning in 'Auto' mode



- (1) make sure all indicators are green
- (2) when gyrotron is off it should be in 'STANDBY' mode
 - | - to turn on gyrotron, click the 'ON' button
 - | - to turn off gyrotron, click the 'STANDBY' button



- using the approximate guidelines on the left plot above set the
 - (3) 'Cathode Voltage' [range: 14475-15500 V], and
 - (4) 'Collector Current' [range: 80-170 mA] to obtain the desired amount of microwave power. The default values are 15000V and 120mA.
 - (5) the gyrotron power going into the wave guide can be determined from the pyrometer reading as shown in the right plot above.
 - once the gyrotron is on, the microwaves going into the probe can be stopped using the shutter controller by flipping the (6) N.O./N.C. switch.
 - microwaves are going into the probe if the green (7) 'Driver' light is on

