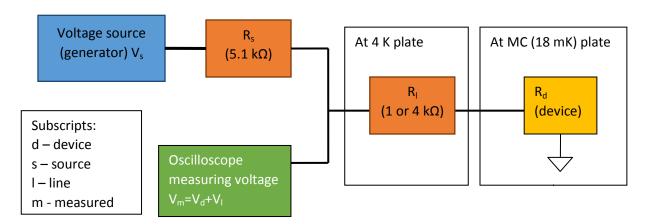
WSi Critical current measurements

Width (SEM measured) [μm]	Line resistance (R _I) [kΩ]	Saved file in overlord: Y:\Measurements\2019.dir\11_02_19 cooldown\KITWA 001 at MC\Second measurement	Index
1.01	1	Scope_4	1
1.45	4	Scope_3	2
2.18	1	Scope_2	3
1.97	4	Scope_0	4
1.98	4	Scope_1	5

Measurement setup:



From the above diagram we see that

$$V_m = I_d(R_l + R_d)$$

$$V_S = I_d(R_S + R_l + R_d)$$

It follows that
$$I_d=\frac{(V_S-V_m)}{R_S}$$
 and $V_d=V_m-I_dR_l=V_m-(V_S-V_m)\frac{R_l}{R_S}$

We plot V_d and I_d for the five traces.

