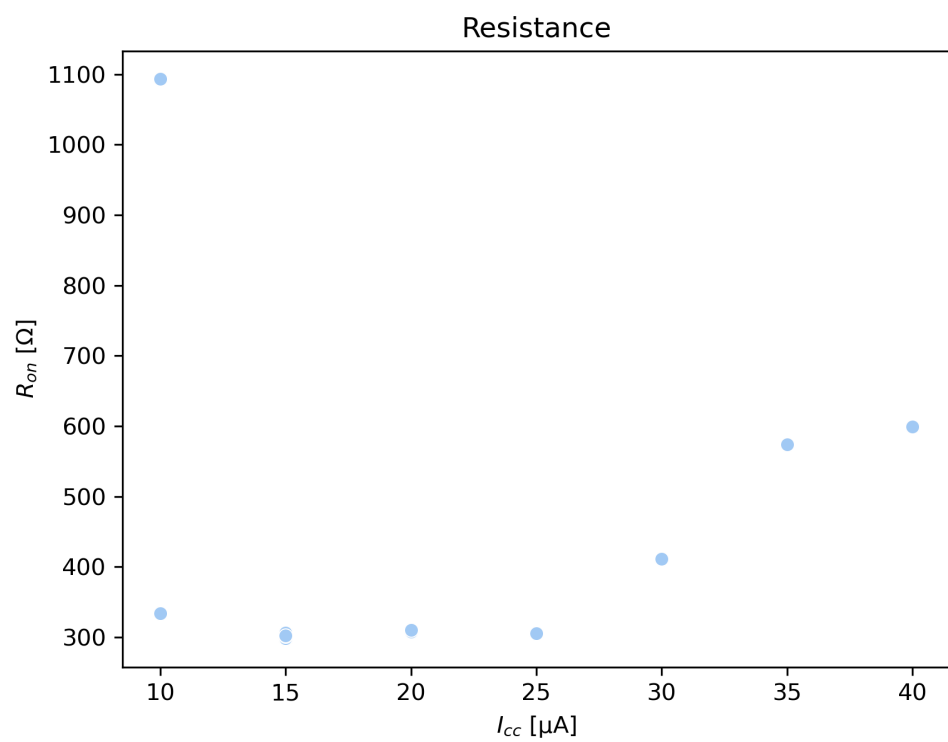


(wafer1,0,0,-1,-1,2,2) Characteristics

- **Cell Size:** 10um
- **Times Accessed:** 27
- **Last Measurement:** 2022/February/28 at 05:01PM

Summary

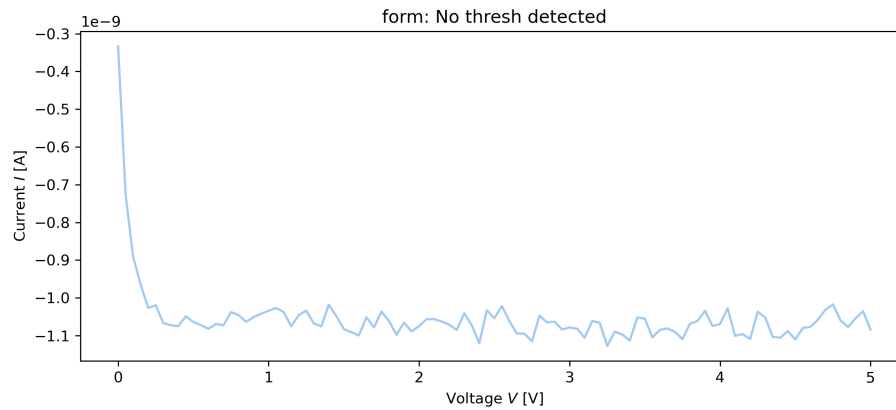
Cycle #	Set Icc (μ A)	Set Voltage (V)	R_on (Ω)	R2
1	10.0	2.80	333.83	1.000
2	10.0	2.80	96753327.60	0.194
3	20.0	4.15	309.44	1.000
4	20.0	4.15	308.05	1.000
5	20.0	4.15	310.35	1.000
6	25.0	4.35	305.26	1.000
7	30.0	4.55	411.54	1.000
8	35.0	4.50	574.24	0.998
9	40.0	4.40	599.46	0.998
10	10.0	2.20	1093.37	1.000
11	15.0	4.55	306.12	1.000
12	15.0	4.55	297.47	1.000
13	15.0	4.55	297.90	1.000
14	15.0	4.55	298.43	1.000
15	15.0	4.55	301.28	1.000
16	15.0	4.55	302.05	1.000



form

- **Time:** 04:16:09PM
- **Icc:** 10.0uA
- **Voltage Range:** 0V \rightarrow 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 1
- **Error:** Set failed

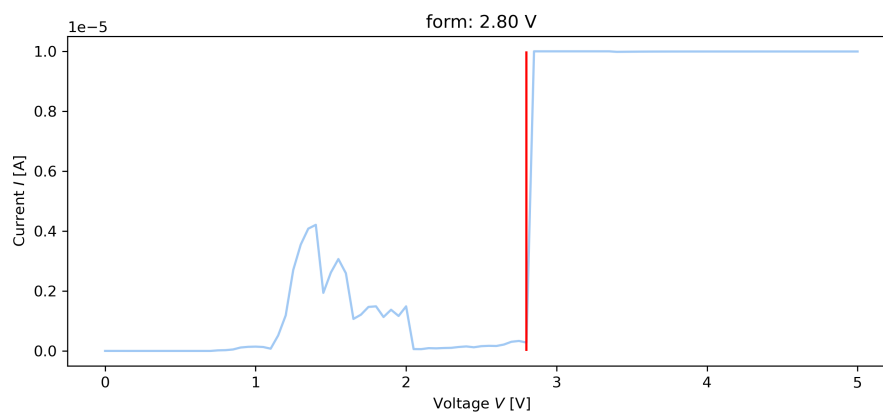
Failure to form. Bad probe to pad contact. A: Copper, B: Platinum.



form

- **Time:** 04:16:59PM
- **Icc:** 10.0uA
- **Voltage Range:** 0V \rightarrow 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.072 V/s*
- **Cycle:** 1
- **Set Voltage:** 2.80 V

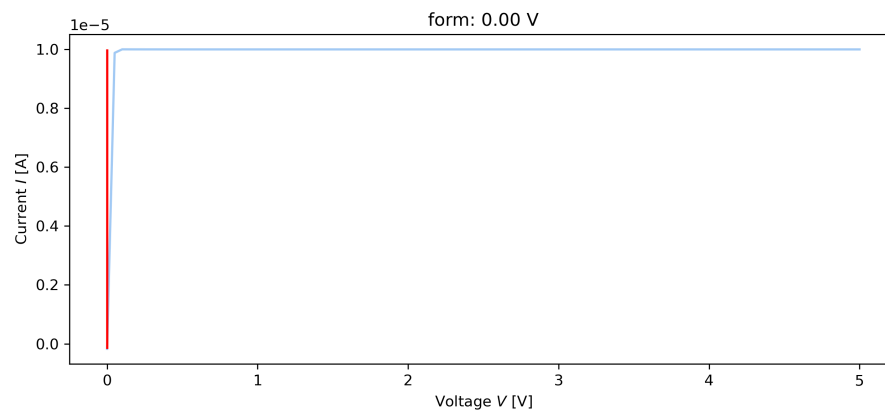
Success, but strange curve in the beginning. A: Copper, B: Platinum.



form

- **Time:** 04:17PM
- **Icc:** 10.0uA
- **Voltage Range:** 0V \rightarrow 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.842 V/s*
- **Cycle:** 1
- **Error:** Set failed

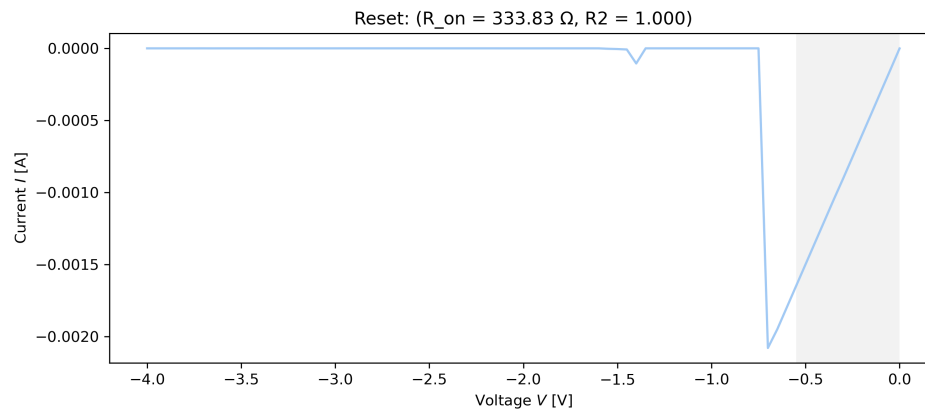
Intention was just to observe, form success confirmed. A: Copper, B: Platinum.



reset

- **Time:** 04:19PM
- **I_{cc}:** 5.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.342 V/s*
- **Cycle:** 1
- **Resistance:** 333.83 Ω
- **Linear Fit R2:** 1.000

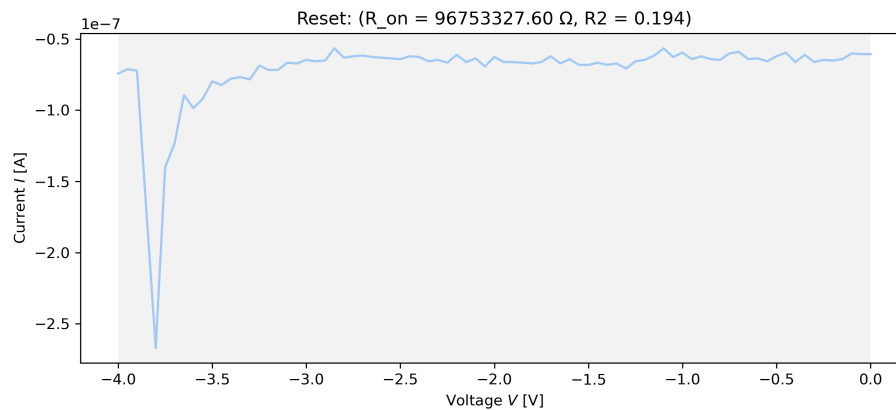
Success. AV column missing, copied from run 2202281620. This run was a near perfect reset. A: Copper, B: Platinum.



reset

- **Time:** 04:20PM
- **I_{cc}:** 5.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.068 V/s*
- **Cycle:** 2
- **Resistance:** 96753327.60 Ω
- **Linear Fit R2:** 0.194

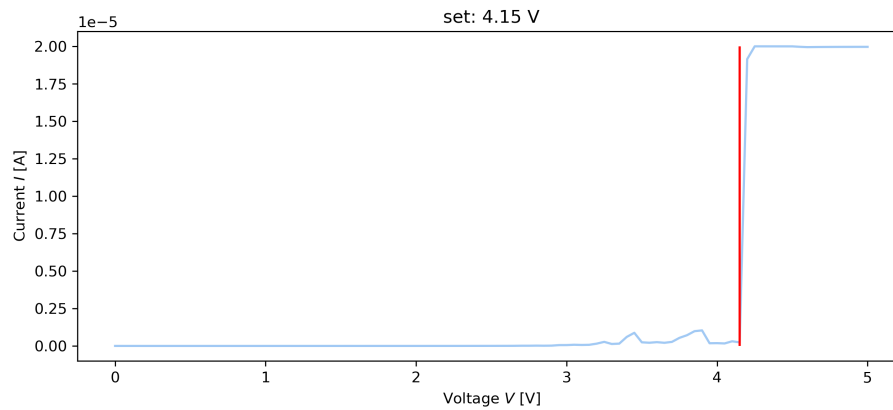
Retry and observation from run 2202281619 due to missing AV column. A: Copper, B: Platinum.



set

- **Time:** 04:26PM
- **Icc:** 20.0uA
- **Voltage Range:** 0V \rightarrow 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 3
- **Set Voltage:** 4.15 V

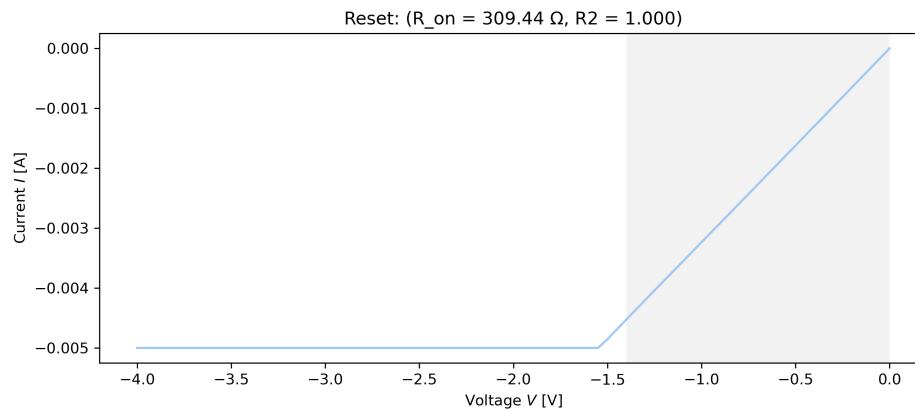
Successfull set. A: Copper, B: Platinum.



reset

- **Time:** 04:29PM
- **I_{cc}:** 5.0mA
- **Voltage Range:** 0V → -4V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.609 V/s*
- **Cycle:** 3
- **Resistance:** 309.44 Ω
- **Linear Fit R²:** 1.000

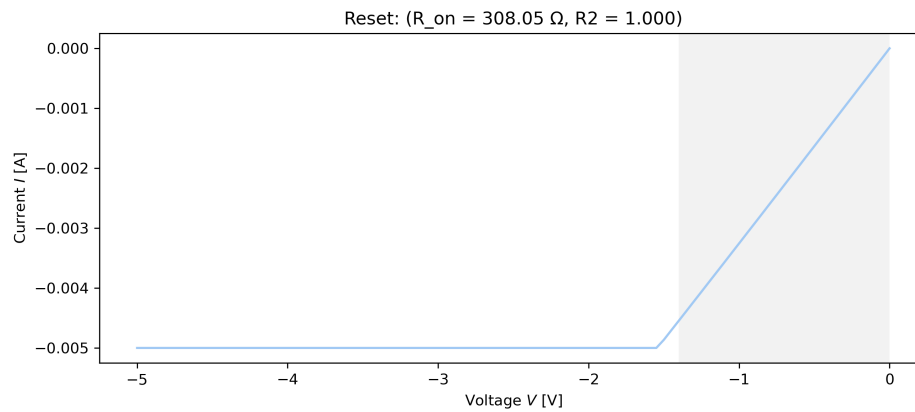
Failure to reset. A: Copper, B: Platinum.



reset

- **Time:** 04:30PM
- **Icc:** 5.0mA
- **Voltage Range:** 0V \rightarrow -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.609 V/s*
- **Cycle:** 4
- **Resistance:** 308.05 Ω
- **Linear Fit R2:** 1.000

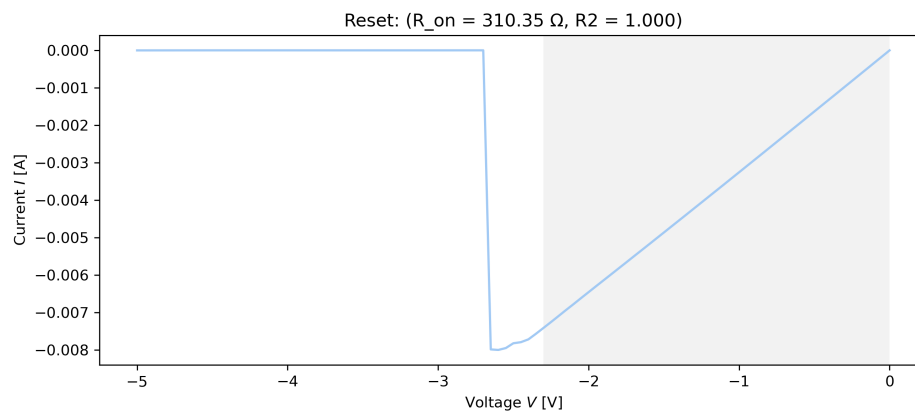
Reset failure. A: Copper, B: Platinum



reset

- **Time:** 04:31PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.608 V/s*
- **Cycle:** 5
- **Resistance:** 310.35 Ω
- **Linear Fit R²:** 1.000

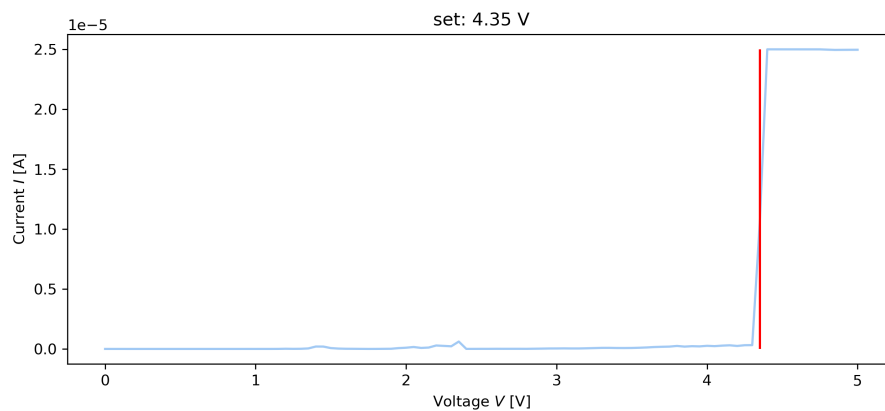
Reset success. A: Copper, B: Platinum.



set

- **Time:** 04:34PM
- **Icc:** 25.0uA
- **Voltage Range:** 0V \rightarrow 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 6
- **Set Voltage:** 4.35 V

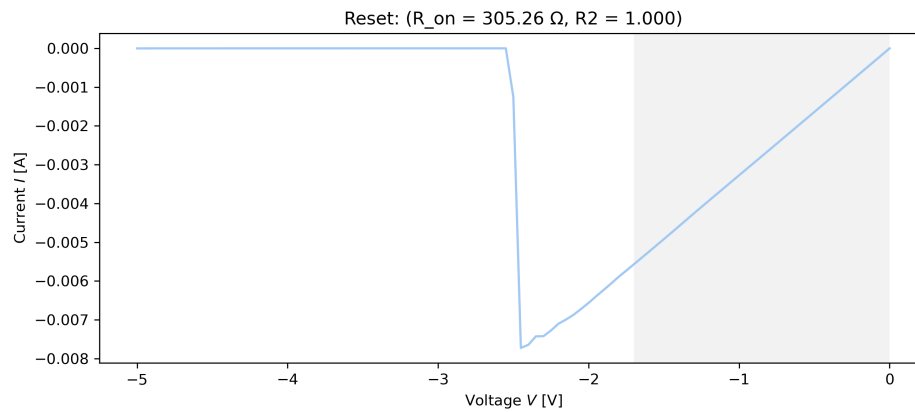
Successful set. A: Copper, B: Platinum.



reset

- **Time:** 04:36PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.609 V/s*
- **Cycle:** 6
- **Resistance:** 305.26 Ω
- **Linear Fit R²:** 1.000

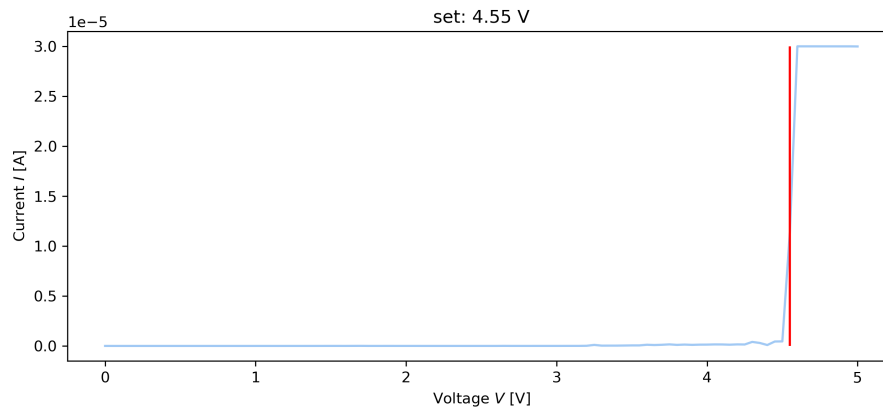
Successful reset. A: Copper, B: Platinum.



set

- **Time:** 04:37PM
- **Icc:** 30.0uA
- **Voltage Range:** 0V \rightarrow 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 7
- **Set Voltage:** 4.55 V

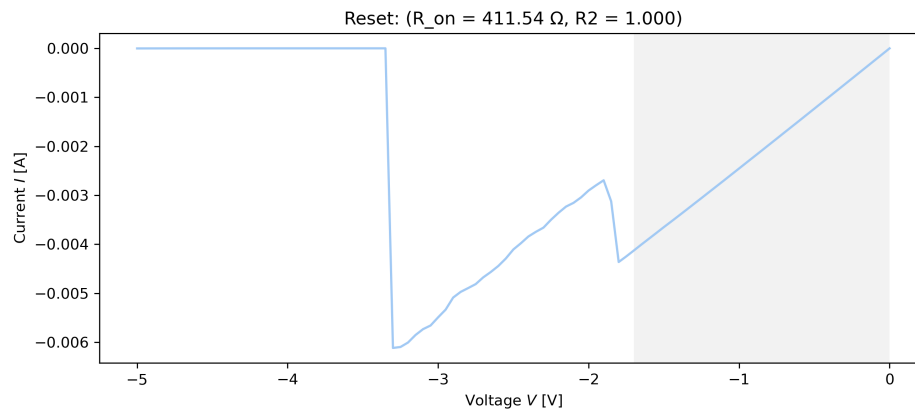
Set success. A: Copper, B: Platinum.



reset

- **Time:** 04:38PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.514 V/s*
- **Cycle:** 7
- **Resistance:** 411.54 Ω
- **Linear Fit R²:** 1.000

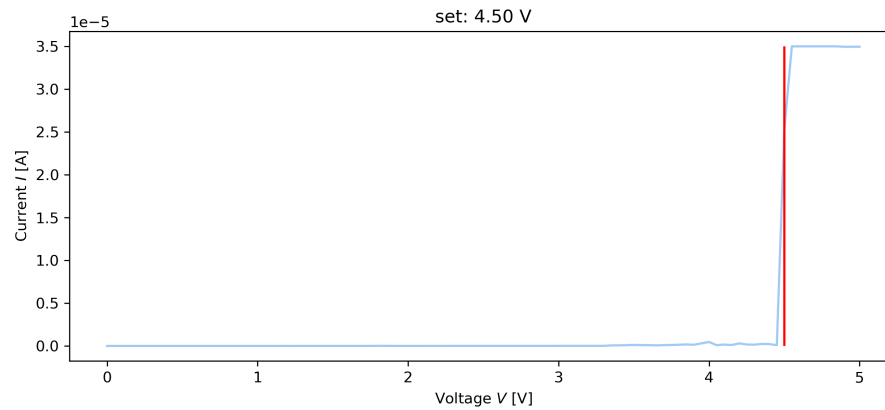
Reset success. But not smooth. A: Copper, B: Platinum.



set

- **Time:** 04:40PM
- **Icc:** 35.0uA
- **Voltage Range:** 0V \rightarrow 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.068 V/s*
- **Cycle:** 8
- **Set Voltage:** 4.50 V

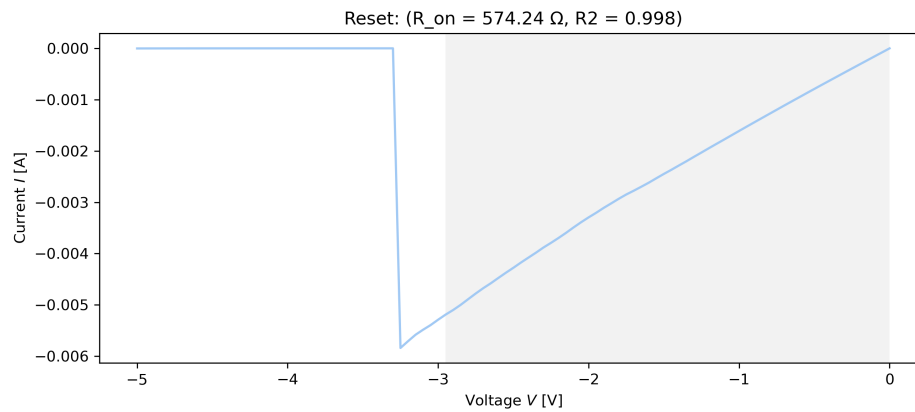
Set success. A: Copper, B: platinum



reset

- **Time:** 04:41PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.352 V/s*
- **Cycle:** 8
- **Resistance:** 574.24 Ω
- **Linear Fit R²:** 0.998

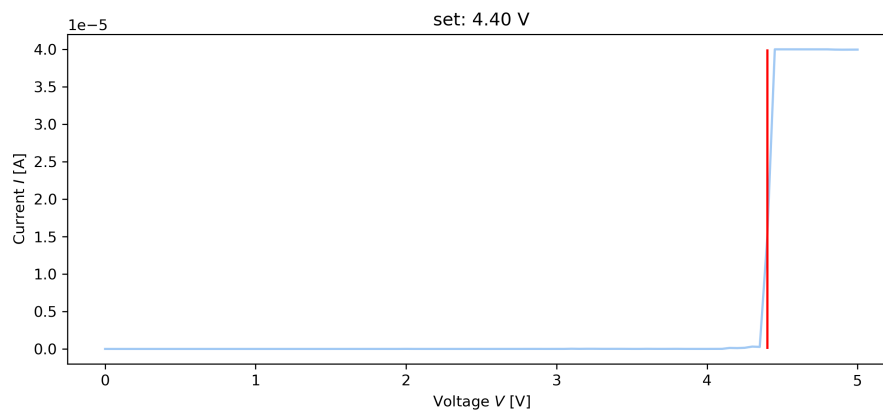
Successful reset, very smooth. A: Copper, B: Platinum.



set

- **Time:** 04:45:00PM
- **Icc:** 40.0uA
- **Voltage Range:** 0V \rightarrow 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 9
- **Set Voltage:** 4.40 V

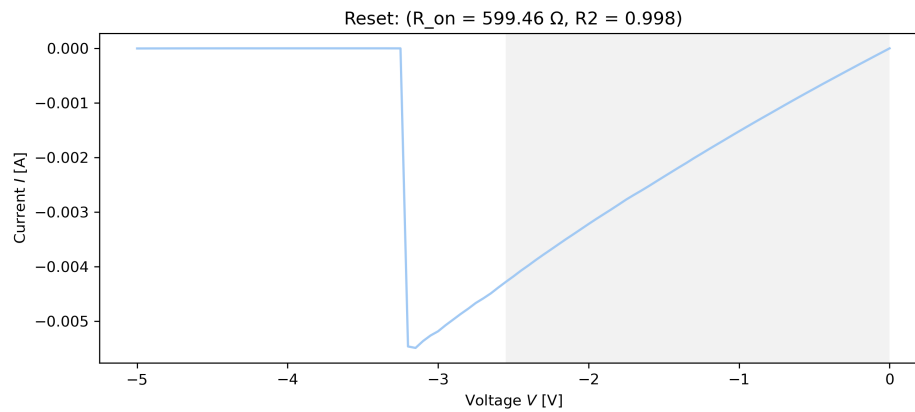
Set sucess. A: Copper, B: Platinum.



reset

- **Time:** 04:45:54PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.351 V/s*
- **Cycle:** 9
- **Resistance:** 599.46 Ω
- **Linear Fit R²:** 0.998

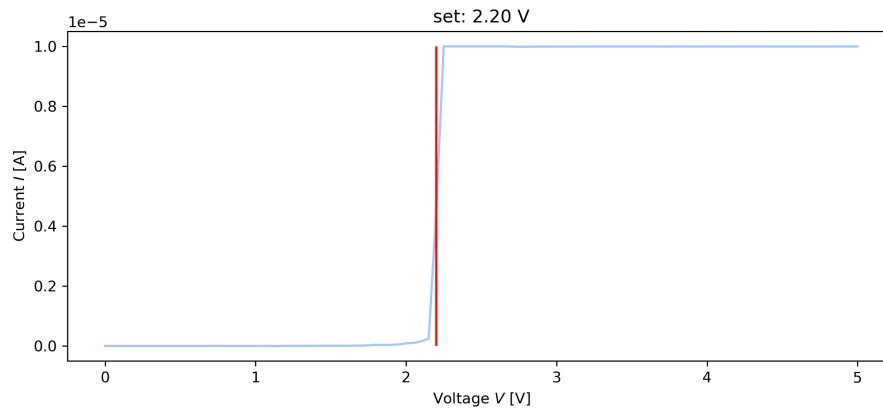
Successful reset. A: Copper, B: Platinum



set

- **Time:** 04:47PM
- **I_{cc}:** 10.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 10
- **Set Voltage:** 2.20 V

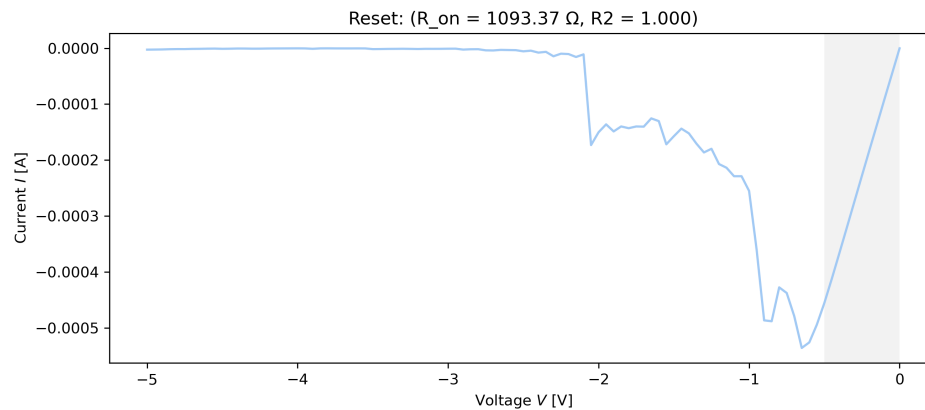
Successful set. A: Copper, B: Platinum.



reset

- **Time:** 04:48PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.091 V/s*
- **Cycle:** 10
- **Resistance:** 1093.37 Ω
- **Linear Fit R²:** 1.000

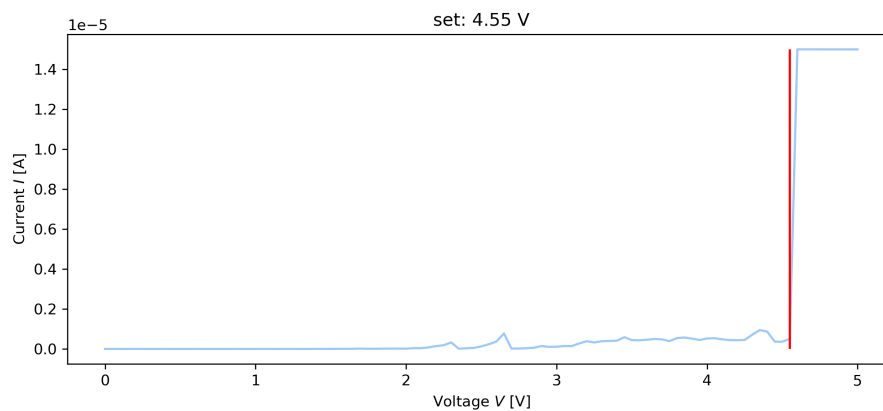
Successful reset, but very janky. A: Copper, B: Platinum.



set

- **Time:** 04:51PM
- **I_{cc}:** 15.0uA
- **Voltage Range:** 0V → 5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** 1.069 V/s*
- **Cycle:** 11
- **Set Voltage:** 4.55 V

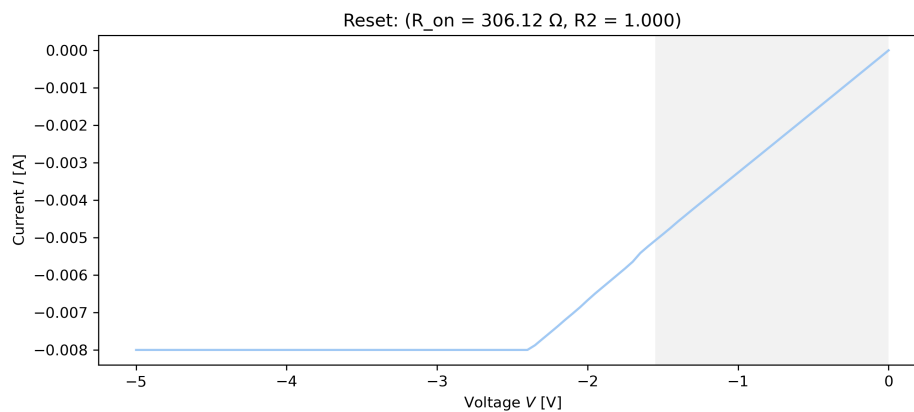
Successful set. A: Copper, B: Platinum.



reset

- **Time:** 04:54PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.609 V/s*
- **Cycle:** 11
- **Resistance:** 306.12 Ω
- **Linear Fit R²:** 1.000

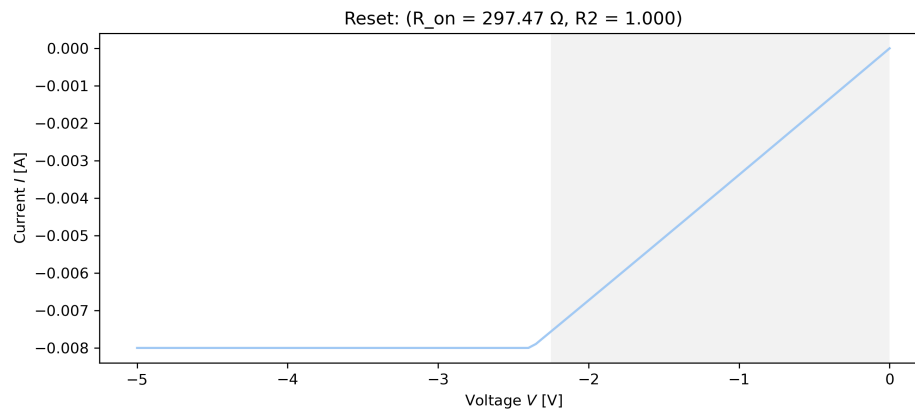
Reset failed. A: Copper, B: Platinum



reset

- **Time:** 04:55:04PM
- **Icc:** 8.0mA
- **Voltage Range:** 0V \rightarrow -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.609 V/s*
- **Cycle:** 12
- **Resistance:** 297.47 Ω
- **Linear Fit R2:** 1.000

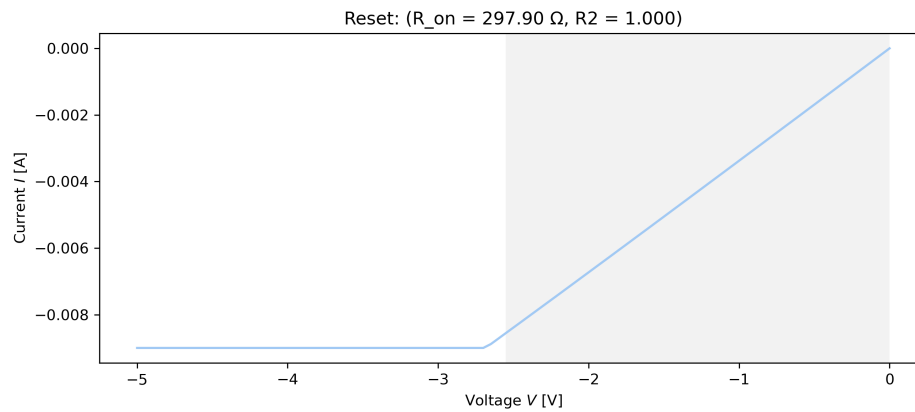
Reset failed. A: Copper, B: Platinum.



reset

- **Time:** 04:55:32PM
- **I_{cc}:** 9.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.609 V/s*
- **Cycle:** 13
- **Resistance:** 297.90 Ω
- **Linear Fit R²:** 1.000

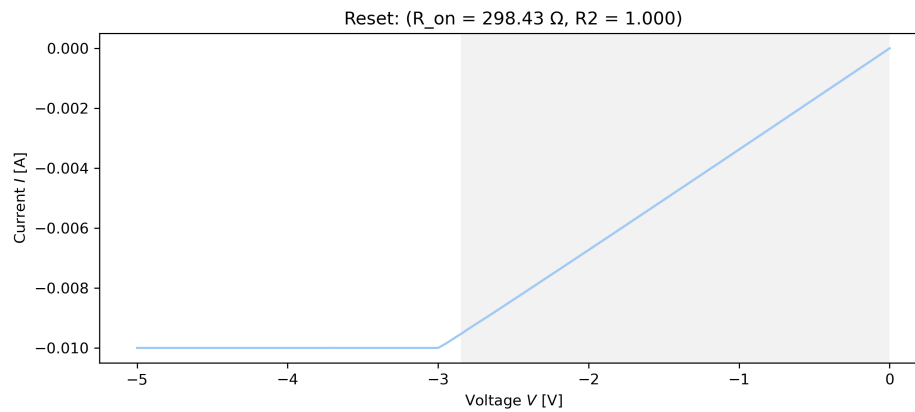
Reset failed. Something wrong, cell is possibly burnt out (i.e. too strong of a filament. A: Copper, B: Platinum).



reset

- **Time:** 04:57PM
- **I_{cc}:** 10.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.610 V/s*
- **Cycle:** 14
- **Resistance:** 298.43 Ω
- **Linear Fit R²:** 1.000

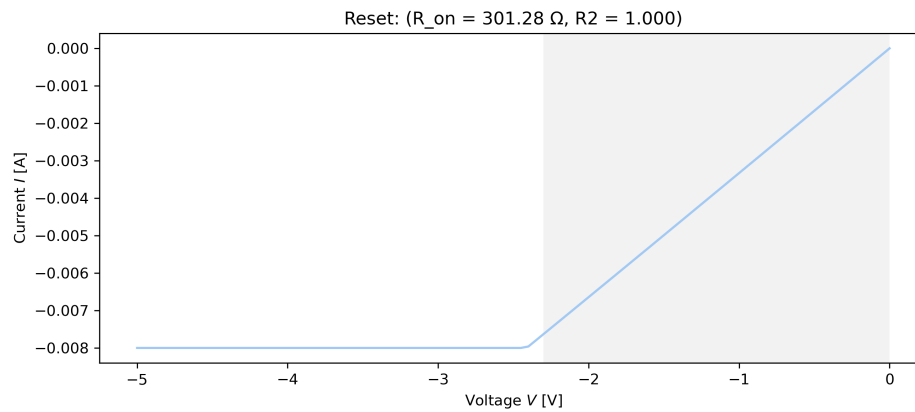
Reset failed. A: Copper, B: Platinum



reset

- **Time:** 04:59:04PM
- **I_{cc}:** 8.0mA
- **Voltage Range:** 0V → -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.610 V/s*
- **Cycle:** 15
- **Resistance:** 301.28 Ω
- **Linear Fit R²:** 1.000

Failed reset again. A: Copper, B: Platinum.



reset

- **Time:** 04:59:43PM
- **Icc:** 15.0mA
- **Voltage Range:** 0V \rightarrow -5V
- **Target Ramp Rate:** 1V/s
- **True Ramp Rate:** -1.087 V/s*
- **Cycle:** 16
- **Resistance:** 302.05 Ω
- **Linear Fit R2:** 1.000

Reset fail. Cell damage confirmed. A: Copper, B: Platinum.

