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| --- | --- | --- |
| dataset | notes | Additional notes |
| 8  9-20  12&13 are dupes | T=23.0C  T=21.7+-0.5C  Field voltage can be extracted from data but for reference, dataset 8-20 corresponds to voltages of 6V to 0.5V in decrements of 0.5V  Collector 1 | Part (a) of P7 – drift velocity and mobility |
| 1-3 | T=21.2 +- 0.5 C | Test data (ignore)  Room temp=20+-0.5C |
| 4  5  6  7 | T=24.3C  25.0C  25.7C  26.1C | Trying to observe the effect on the waveform of a varied temperature |

Temperature changes have been done with a hot plate. This hot plate creates some oscillation within our results (the hot plate vibrates a little bit), which should be taken into account.

In addition to this we have used a thermometer to measure the temperature next to the silicon probe (which may not be the same as the one the hot plate puts out), so both temperatures may be present in the data.

A cardboard box was put around the set up to try to keep the ambient temperature uniform. Measured room temperature before the heating element was added was of 20 +- 0.5 degrees, and the probe temperature with the E field running through it was measured at 21.2 +- 0.5 degrees.