

ELEX - 2117

Lab 9 - Digital Signal Measurements

Brennan Pinette

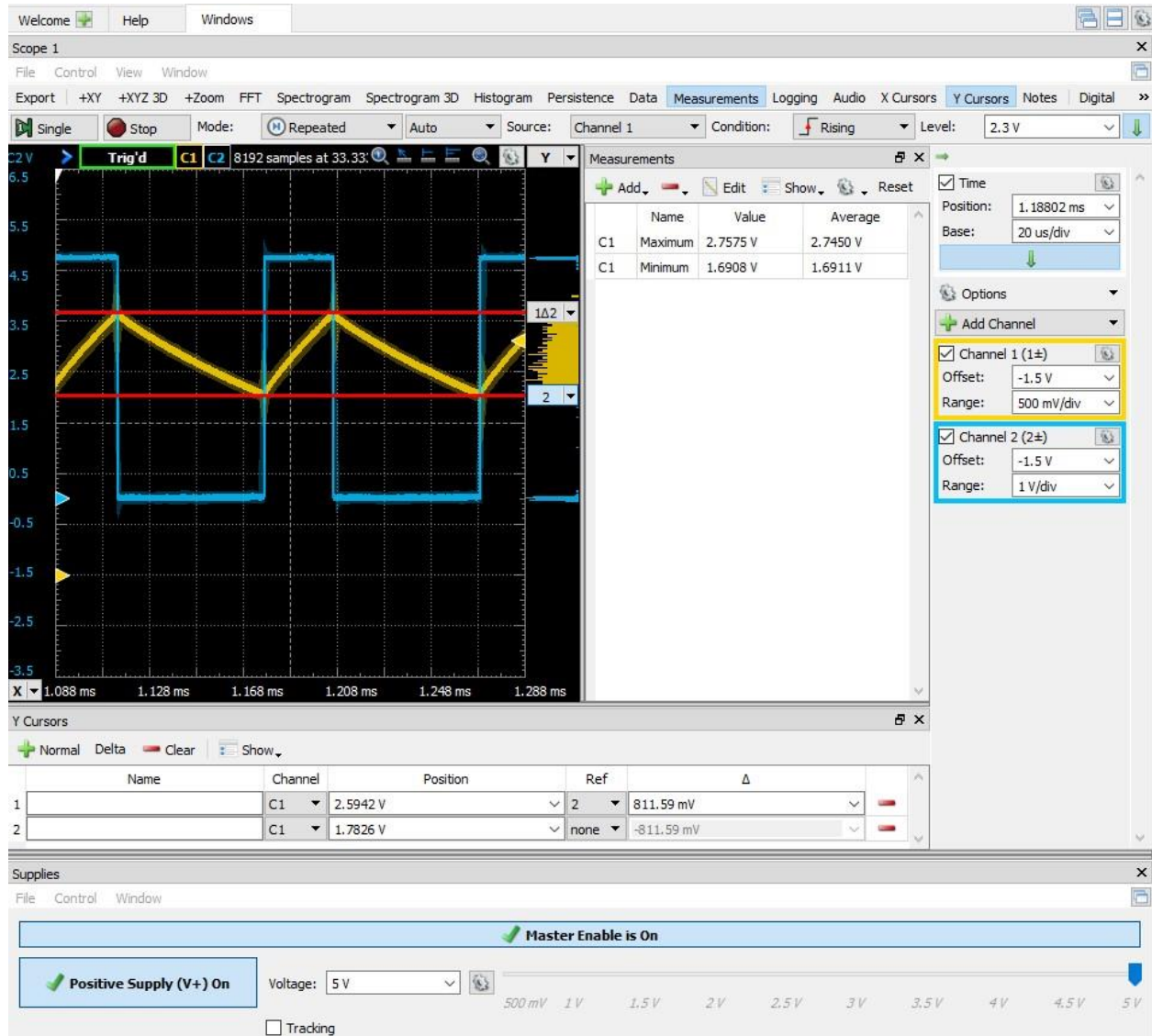
March 9, 2021

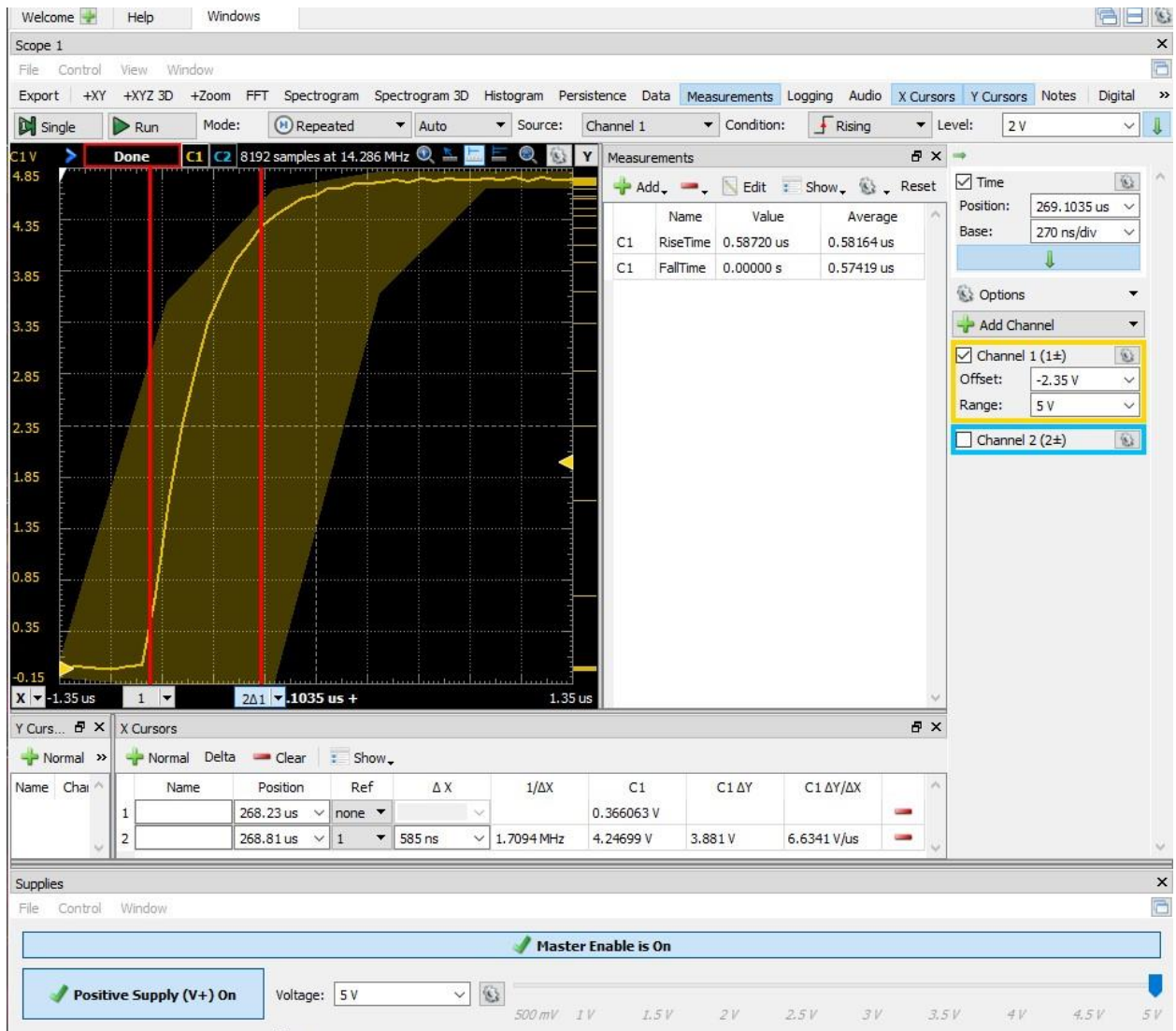
Data:

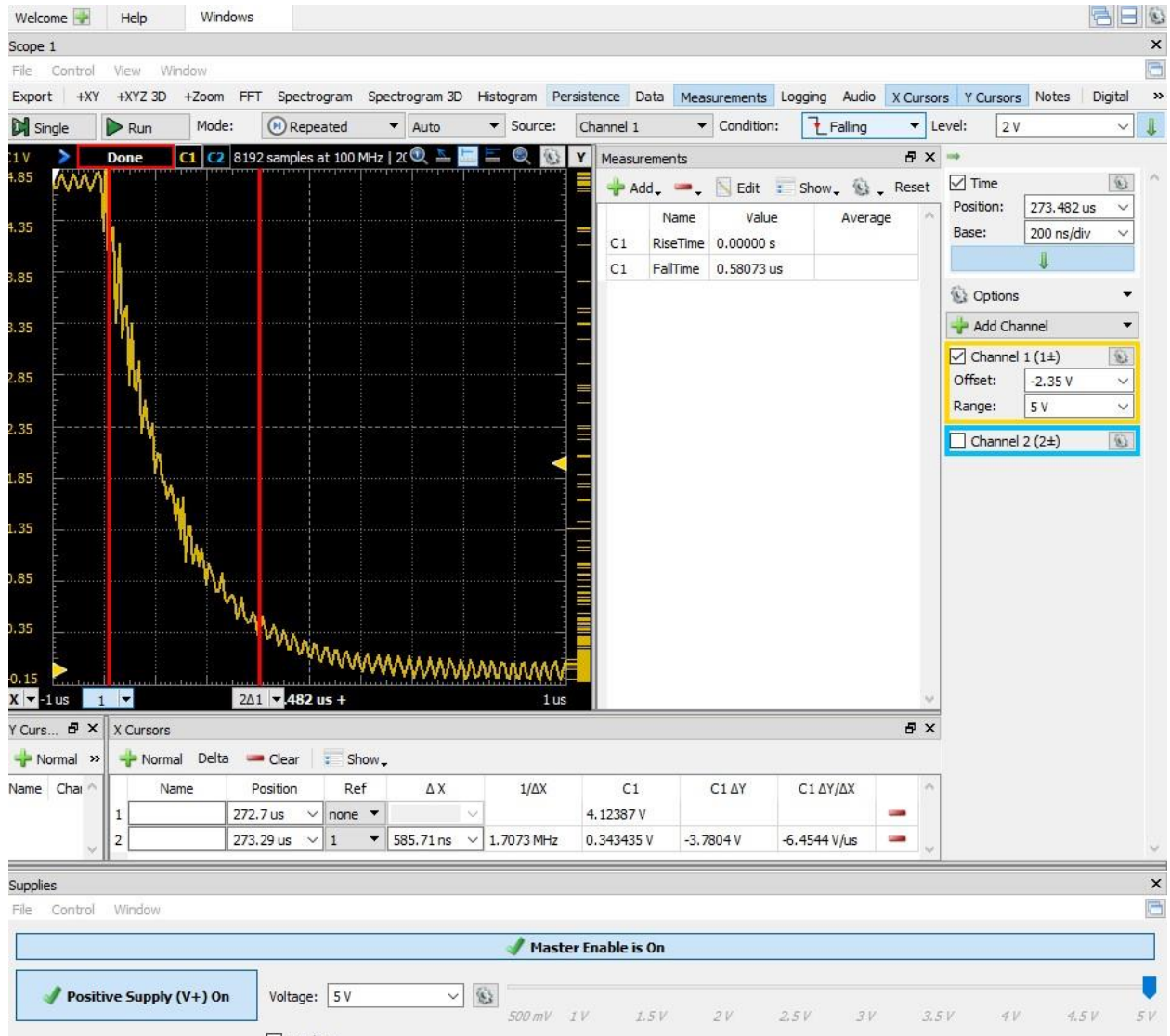
| Reference | Value | Unit |
|-----------|-------|----------|
| R1 | 984 | Ω |
| R2 | 988 | Ω |
| R3 | 198.3 | Ω |
| C1 | 99.6 | nF |
| C2 | 1.32 | nF |
| Diode | 0.2 | V |

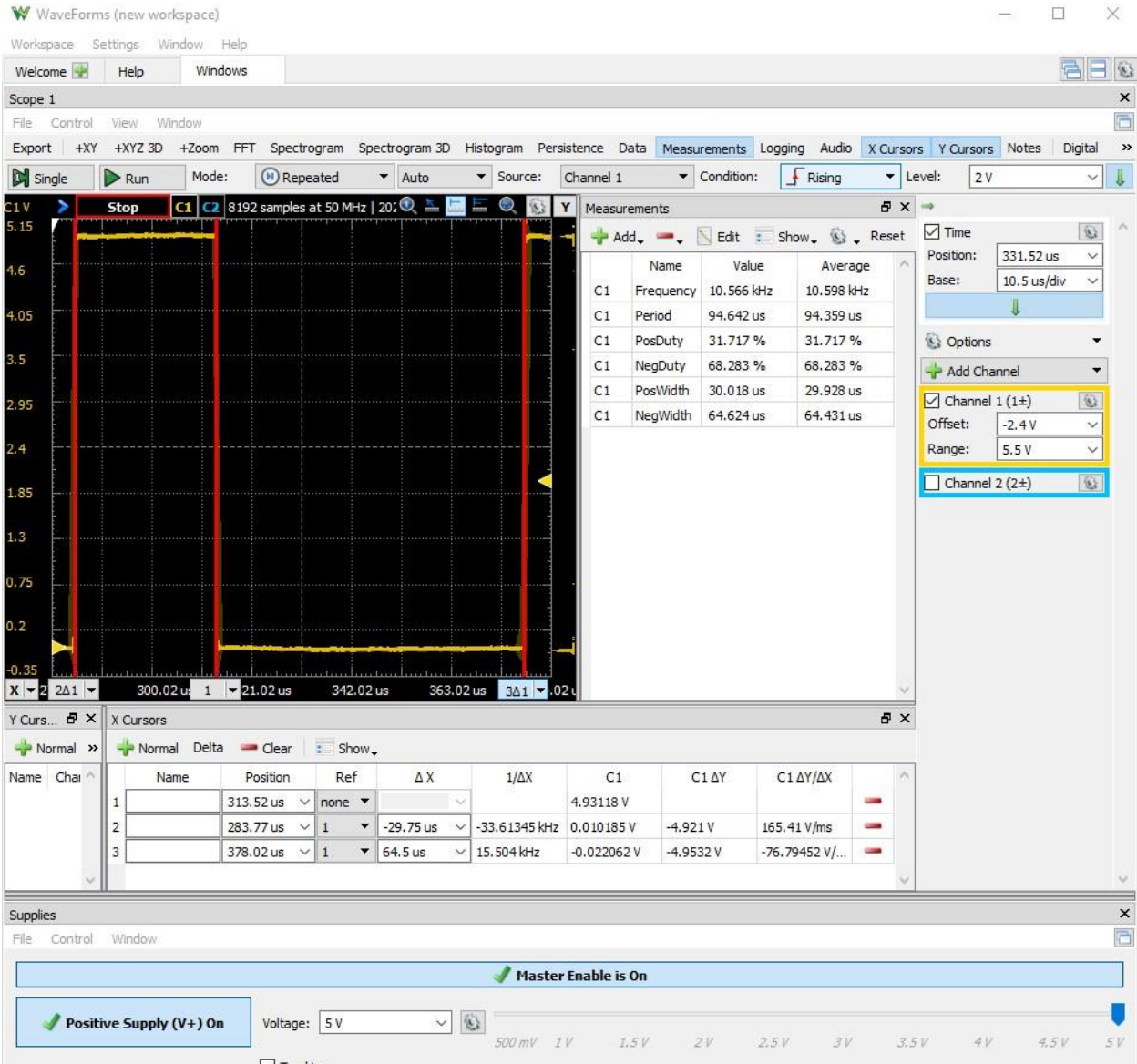
| Type | Estimated | From Cursor | Measured | Units |
|-------------------------|-----------|----------------|----------|-------|
| Rise Time | 580 | 585 | 587 | ns |
| Fall Time | 600 | 586 | 581 | ns |
| Positive Threshold | 2.7 | 2.6 | 2.75 | V |
| Negative Threshold | 1.7 | 1.8 | 1.7 | V |
| Period | 95 | 94.3 | 94.6 | us |
| Positive Pulse Width | 30 | 29.8 | 30 | us |
| Negative Pulse Width | 65 | 64.5 | 64.6 | us |

Screen Captures:









Circuit:

