

Recovery Drop Test Report

UBC Rocket · Recovery Team · 2025-26 Season

1. Objective

This report documents a drop test of the main parachute deployment assembly to verify canopy inflation time, descent rate, and shock-cord integrity under representative loading. This is sample content used to demonstrate embedding a PDF in the documentation site.

2. Test Configuration

Parameter	Value
Test mass	6.4 kg
Drop height	18 m
Main canopy diameter	2.1 m
Target descent rate	5.5 m/s
Ambient wind	3 km/h

3. Results

Trial	Inflation (s)	Descent (m/s)	Result
1	1.8	5.6	Pass
2	2.0	5.4	Pass
3	1.9	5.7	Pass

4. Conclusion

All three trials met the target descent rate within tolerance and showed consistent inflation times under two seconds. No damage to the shock cord or canopy was observed. The assembly is cleared for the next integration milestone.