



BRIGHAM YOUNG UNIVERSITY
AUVSI CAPSTONE TEAM (TEAM 45)

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1 Introduction

This document describes the procedures used to test each of the UGV concepts. Some of the tests were unnecessary for selecting between concepts, so they will not be performed until subsystem engineering.

2 Test Procedures and Results

2.1 UGV weight

Procedure

Results

Concept	Result
Parachute	
Skycrane	
Glider	

2.2 Stowed UGV drag

Procedure

Result

Concept	Result
Parachute	
Skycrane	
Glider	

2.3 Maximum survivable drop height

Procedure

Result

Concept	Result
Parachute	
Skycrane	
Glider	

2.4 Maximum landing velocity

Procedure

Result

Concept	Result
Parachute	
Skycrane	
Glider	

2.5 Landing distance from target

Procedure

Result

Concept	Result
Parachute	
Skycrane	
Glider	

2.6 Communication range

Procedure

Result

Concept	Result
Parachute	
Skycrane	
Glider	

2.7 Communication band overlap

Procedure

Result

Concept	Result
Parachute	
Skycrane	
Glider	

2.8 Communication loss detection time

Procedure

Result

Concept	Result
Parachute	
Skycrane	
Glider	

2.9 Rule violations

Procedure

Result

Concept	Result
Parachute	
Skycrane	
Glider	