

Pazuhesh Sounding Rocket

Carrier of the second Iranian Biospace Capsule



Iranian Space Research Center



Iranian Space Agency

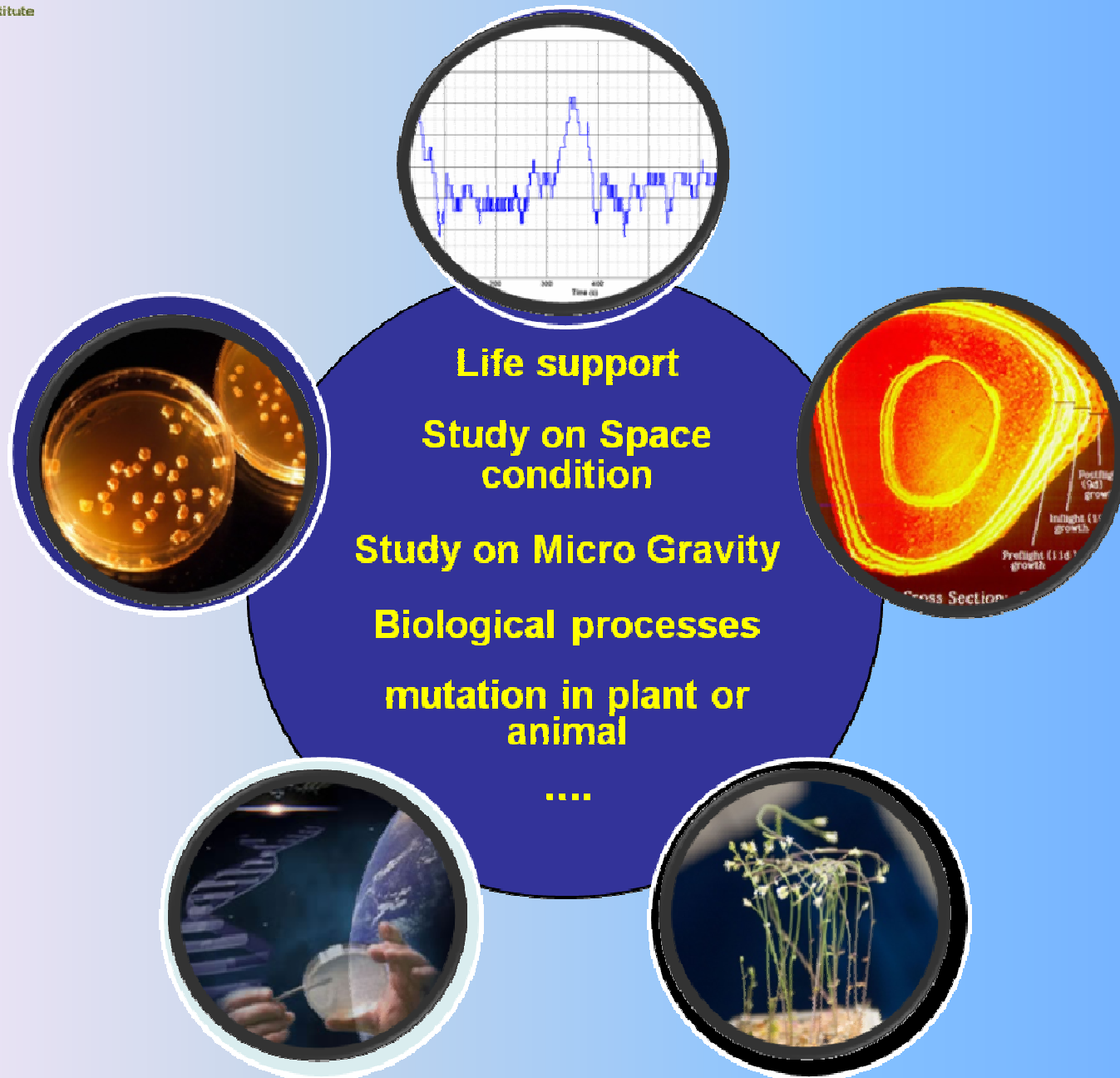
Astronautics Research Institute

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Bio-Space Research





The Mission of Kavoshgar Project

Development of Iranian Space Laboratory for:

- **Bio-space Research**
- **Functional and Environmental Development Laboratory of the Iranian Spacecraft Subsystems**



History of Kavoshgar Project

Name	Mission	Altitude (km)	Date	Result
Kavoshgar Class B (III)	Primary biospace research	55	February 2010	Successful recovery
Kavoshgar Class C (Pishgam)	Lunch the Pishgam to space (suborbital)	120	January 2013	First Iranian Astronaut Monkey
Kavoshgar Class D (Pazuhesh)	Lunch the Fargam to space (suborbital)	120	Dec. 2013	Second Iranian Astronaut Monkey



Kavoshgar III Class B

Beginning of bio-space research

The first biological payload contains:

- Rat
- Turtle
- Different types of cells



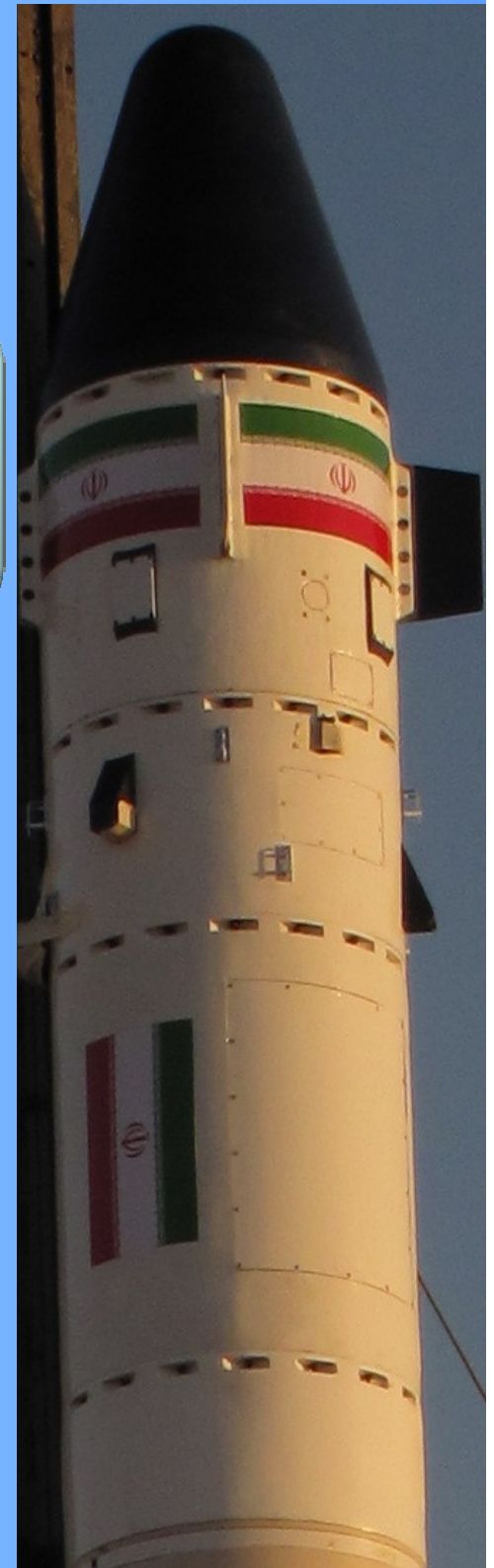
Kavoshgar Class C (Pishgam)

Mission definition:

Sending life to the space and its recovery

Mission requirements:

- ✓ Sending life to altitude 120 km
- ✓ Successful recovery
- ✓ Saving and sending all vital signs and environmental data to ground stations
- ✓ Developing of corresponding technology system such as, life supporting, recovery, telemetry, reentry and ...
- ✓ Study of challenges of sending man to space



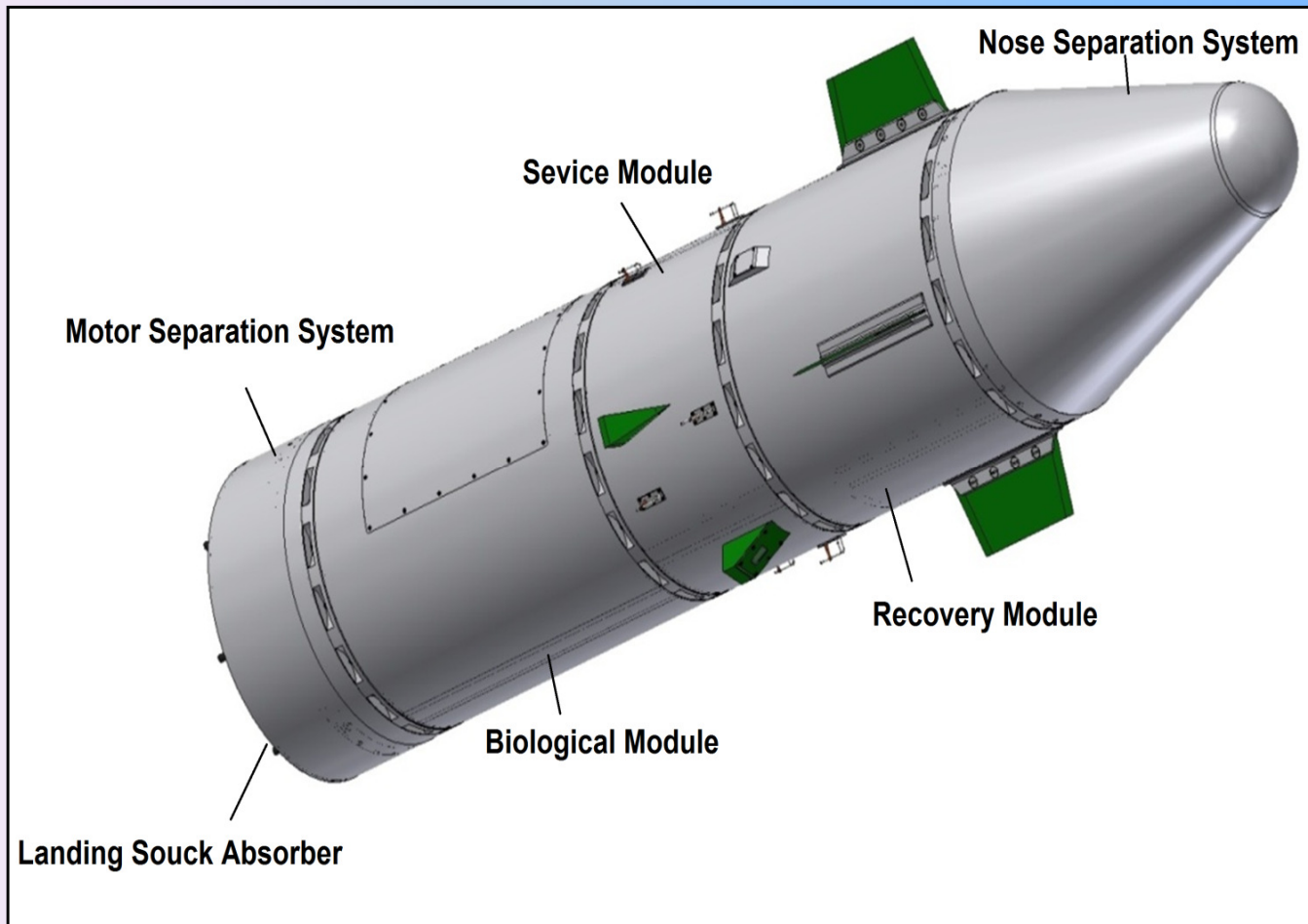


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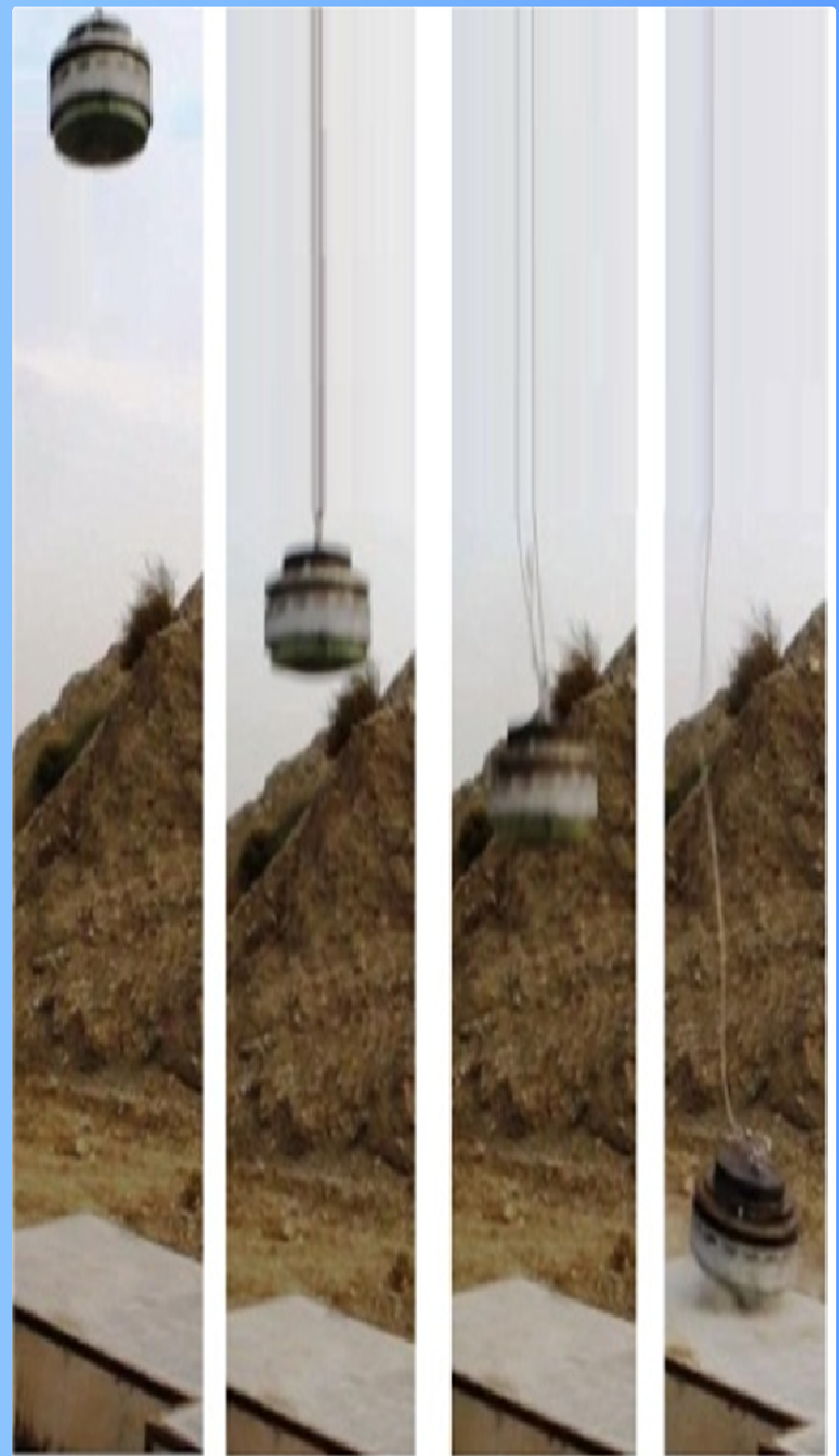
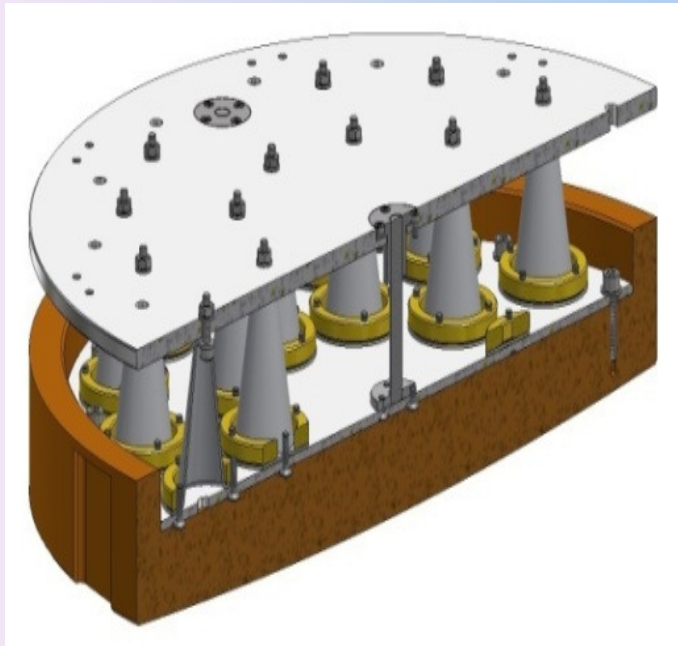
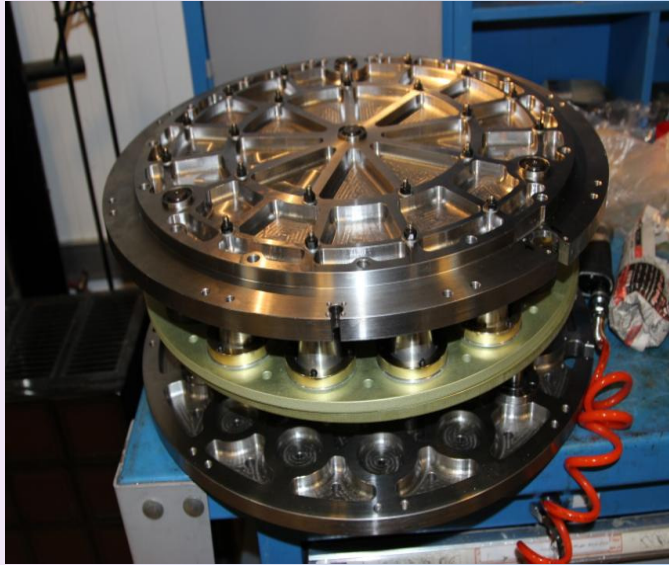


Kavoshgar Pazuhesh





Landing shock Absorber



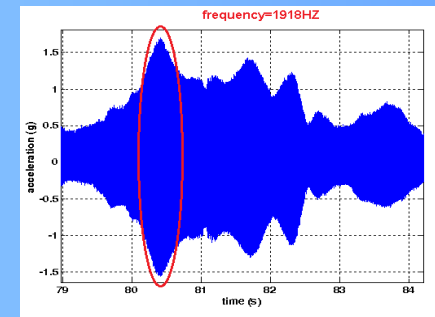
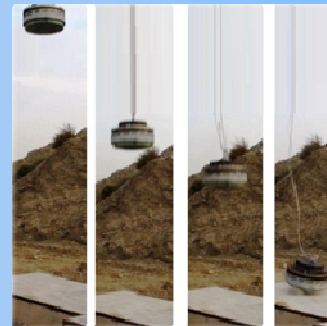
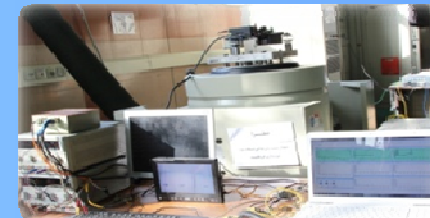
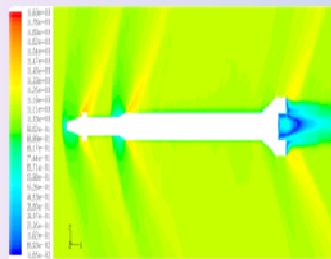
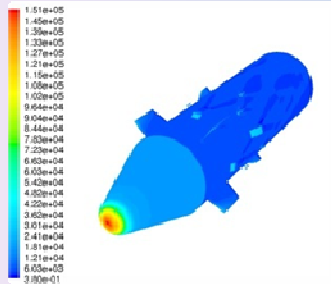


Passive Radiation Dosimeters





Design and Test for Environmental conditions



Desensitization and Adaptation



acceleration

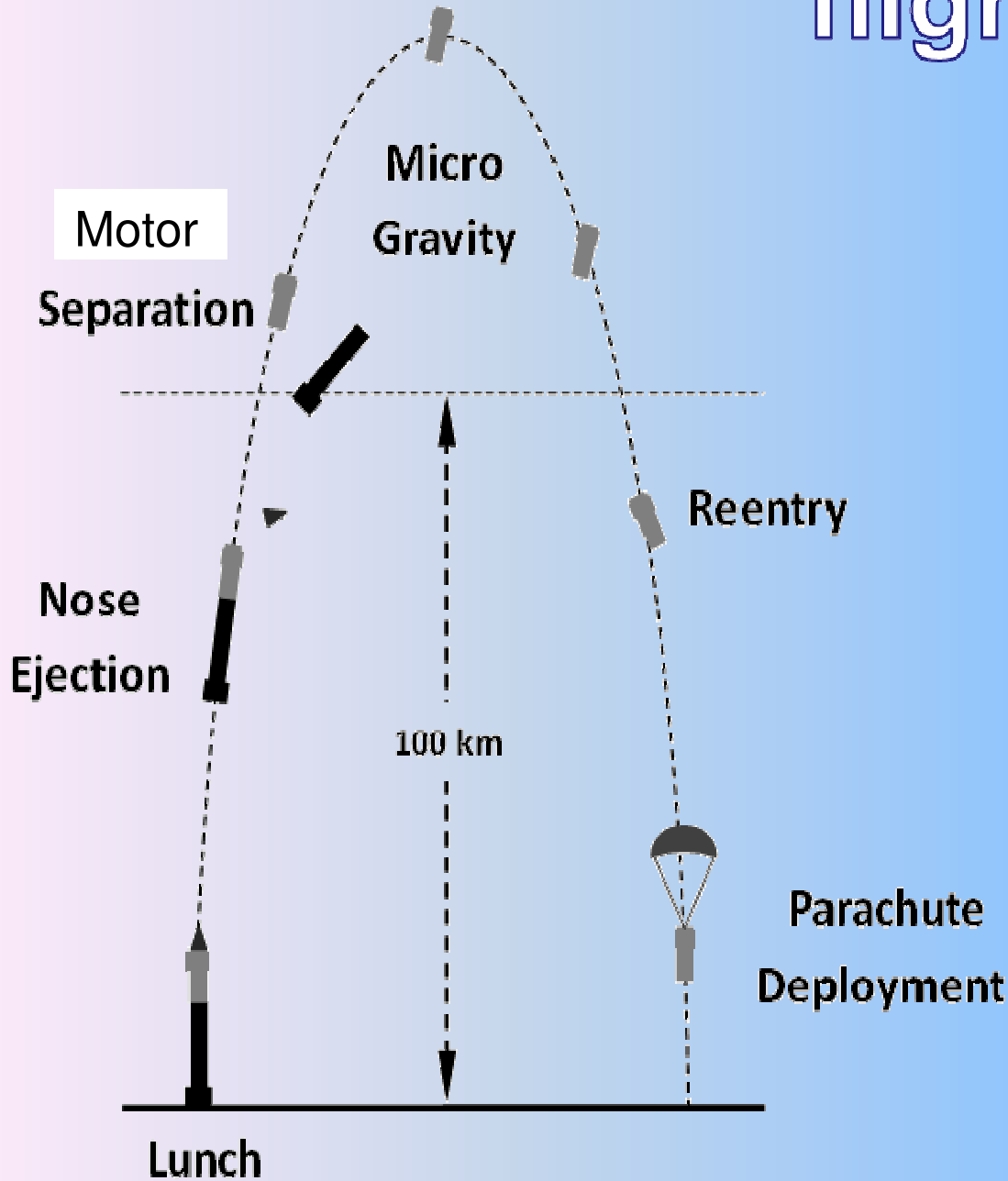


Vibration





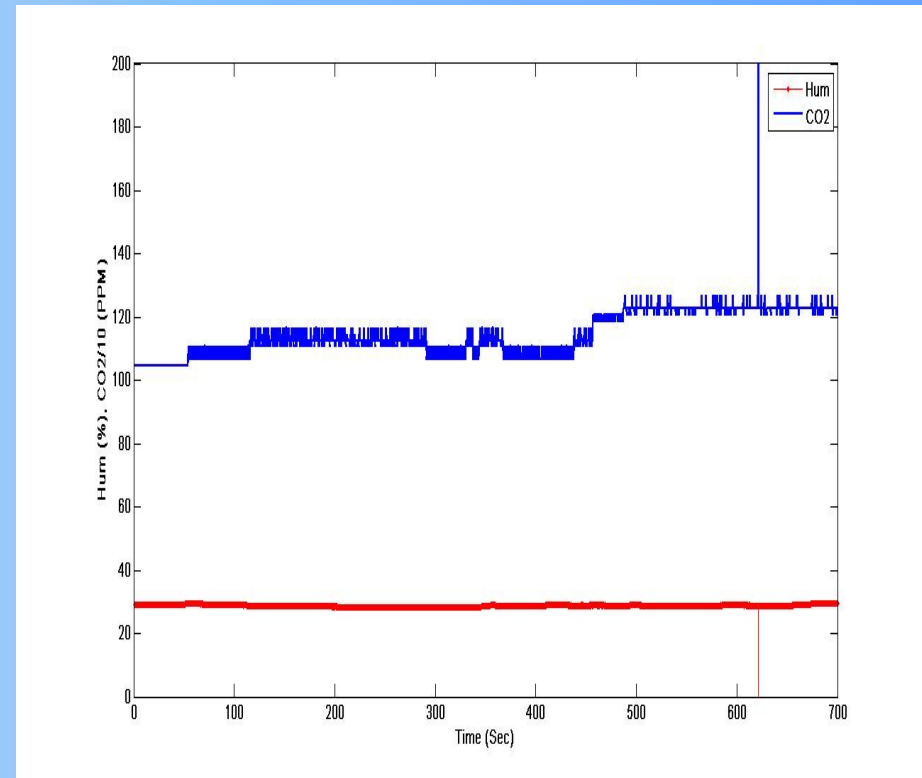
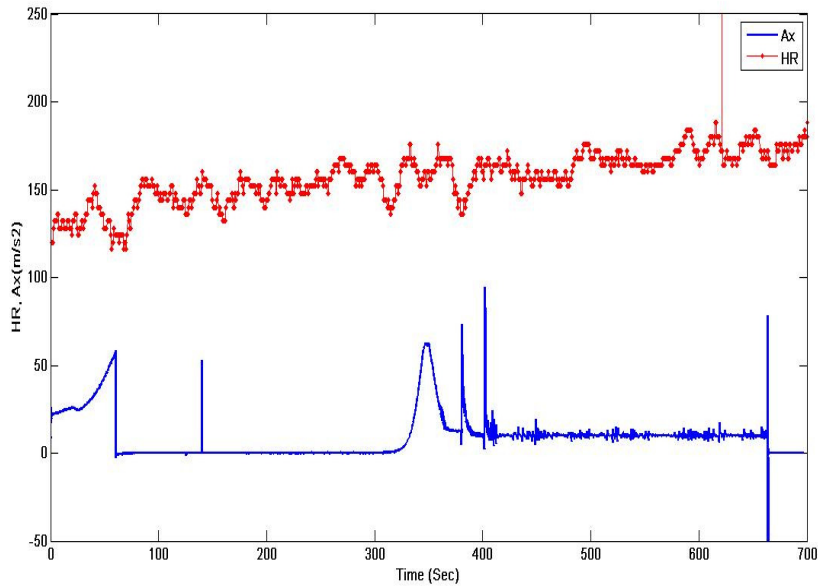
Kavoshgar pazuhesh flight profile





Launch data analysis

Heart rate vs. steady state acceleration



Iranian Space Research Center



Astronautics Research Institute

Fargam Flight





**Thanks you for your
attention**