Incorporating secondary sources:

According to Arinkin L. Panasenko, Vibration test stands can be manufactured locally to test payloads pages 803-809. In their 2012 study, J. K. Comrie found that when the payload is placed in the rocket the air inside was compressed and this compressed air had an adverse effect on the natural frequency page 16. R. Thomas explores the idea of manned mission to take enthusiast to the outer limits of the atmosphere where they will experience zero gravity to promote further space exploration pages 8-10.

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Vibration testing is an important aspect of payload design and many factors play a role in the natural frequency of objects. It is vital to understand these frequencies and their reaction when coupled with other frequencies.