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**Containerless materials processing rack in Space
Station-Ground preparation specification for experiment
samples**

空间站无容器材料实验柜 实验样品地面制备规范

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Space station containerless material experiment cabinet Specifications for experimental sample ground preparation

1 Scope

This document specifies the sample requirements and ground sample preparation and

process records for scientific experiments conducted in the space station's containerless material experiment cabinet.

and test report requirements, describing the test methods.

This document is applicable to the preparation and testing of electrostatic levitation equipment for space station containerless material test cabinets or their ground mirror devices on the ground.

Prepare samples for scientific experiments.

2 Normative references

GB/T 30114.1

GB/T 30114.7

GB/T 37469-2019

GB/T 37844-2019

3 Terms and Definitions

GB/T 30114.1, GB/T 30114.7, GB/T 37844-2019 and GB/T 37469-2019 and the following terms and Definitions apply to this document.

3.1 Axis mechanism movable interchamber

A movable internal cavity mechanism in an electrostatic suspension device that enables sample release and recovery.

3.2

A container for storing samples in experiments without container cabinets, used in conjunction with the axis mechanism to carry out experiments.

3.3 4 Sample requirements

The operation of releasing the sample from the sample box in the axis mechanism and recovering it into the sample box.

4.1 Ingredients

The sample composition is designed according to the purpose of the on-orbit experiment. The composition design should meet the following requirements.

a) The physical and chemical properties of the sample are stable at room temperature;