

Australian Standard™

Cleanrooms, workstations, safety cabinets and pharmaceutical isolators—Methods of test

Method 20: Determination of sound level at installed workstations, safety cabinets and pharmaceutical isolators

1 SCOPE This Standard sets out the method for determining the sound levels experienced by operators working at workstations, safety cabinets and pharmaceutical isolators, and the noise contribution of the cabinet or isolator to the environmental sound level. The method identifies the sound from the device, the work environment, and combination of these factors.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

1386 Cleanrooms and clean workstations

1386.1 Part 1: Principles of clean space control

1807 Cleanrooms, workstations, safety cabinets and pharmaceutical isolators—Methods of test

1807.0 Part 0: List of methods and apparatus

2107 Acoustics—Recommended design sound levels and reverberation times for building interiors

3 DEFINITIONS For the purpose of this Standard the definitions given in AS 1386.1 and AS 1807.0 apply.

4 PRINCIPLE Sound levels are measured at specified positions under operating conditions and also with cabinet or isolator turned off.

5 APPARATUS The following apparatus as specified in AS 1807.0 is required:

- (a) Sound level meter.
- (b) Acoustic calibrator.

6 PROCEDURE The procedure shall be as follows:

- (a) Select the point of measurement.

Measurements shall be made at user head level, at the user's normal work position(s) as identified by the user.

- (b) Ensure that the equipment is operating within specification with respect to airflow, containment, etc. All measurements shall be made using the meter on A-weighting and fast response.