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| Pollutant | Reference or equivalent | Manual or automated | Applicable part 50 appendix | Applicable subparts of part 53 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | A | B | C | D | E | F |
| | | Automated | J | ✓ | | ✓ | ✓ | | |
| $PM_{2.5}$ | Reference | Manual | L | ✓ | | | | ✓ | |
| | Equivalent Class I | Manual | L | ✓ | | ✓ | | ✓ | |
| | Equivalent Class II | Manual | L[1] | ✓ | | ✓[2] | | ✓ | ✓[1 2] |
| | Equivalent Class III. | Automated | L[1] | ✓ | | ✓ | | ✓ | ✓[1] |
| $PM_{10-2.5}$ | Reference | Manual | L, O | ✓ | | | | ✓ | |
| | Equivalent Class I | Manual | L, O | ✓ | | ✓ | | ✓ | |
| | Equivalent Class II | Manual | L, O | ✓ | | ✓[2] | | ✓ | ✓[1 2] |
| | Equivalent Class III. | Automated | L[1], O[1] | ✓ | | ✓ | | ✓ | ✓[1] |

1. Some requirements may apply, based on the nature of each particular candidate method, as determined by the Administrator.
2. Alternative Class III requirements may be substituted.

[75 FR 35597, June 22, 2010]

APPENDIX A TO SUBPART A OF PART 53—REFERENCES

(1) American National Standard Quality Systems—Model for Quality Assurance in Design, Development, Production, Installation, and Servicing, ANSI/ISO/ASQC Q9001–1994. Available from American Society for Quality, P.O. Box 3005, Milwaukee, WI 53202 (*http://qualitypress.asq.org*).

(2) American National Standard Quality Systems for Environmental Data and Technology Programs—Requirements with guidance for use, ANSI/ASQC E4–2004. Available from American Society for Quality P.O. Box 3005, Milwaukee, WI 53202 (*http://qualitypress.asq.org*).

(3) Dimensioning and Tolerancing, ASME Y14.5M-1994. Available from the American Society of Mechanical Engineers, 345 East 47th Street, New York, NY 10017.

(4) Mathematical Definition of Dimensioning and Tolerancing Principles, ASME Y14.5.1M-1994. Available from the American Society of Mechanical Engineers, 345 East 47th Street, New York, NY 10017.

(5) ISO 10012, Quality Assurance Requirements for Measuring Equipment-Part 1: Meteorological confirmation system for measuring equipment):1992(E). Available from American Society for Quality Control, 611 East Wisconsin Avenue, Milwaukee, WI 53202.

(6) Quality Assurance Guidance Document 2.12. Monitoring $PM_{2.5}$ in Ambient Air Using Designated Reference or Class I Equivalent Methods. U.S. EPA, National Exposure Research Laboratory, Research Triangle Park, NC, November 1998 or later edition. Currently available at *http://www.epa.gov/ttn/amtic/pmqainf.html*.

[62 FR 38784, July 18, 1997, as amended at 71 FR 61278, Oct. 17, 2006]

## Subpart B—Procedures for Testing Performance Characteristics of Automated Methods for $SO_2$, CO, $O_3$, and $NO_2$

SOURCE: 76 FR 54326, Aug. 31, 2011, unless otherwise noted.

### § 53.20 General provisions.

(a) The test procedures given in this subpart shall be used to test the performance of candidate automated methods against the performance requirement specifications given in table B–1 to subpart B of part 53. A test analyzer representative of the candidate automated method must exhibit performance better than, or not outside, the specified limit or limits for each such performance parameter specified (except range) to satisfy the requirements of this subpart. Except as provided in paragraph (b) of this section, the measurement range of the candidate method must be the standard range specified in table B–1 to subpart B of part 53 to satisfy the requirements of this subpart.

(b) *Measurement ranges.* For a candidate method having more than one selectable measurement range, one range must be the standard range specified in table B–1 to subpart B of part 53, and a test analyzer representative of the method must pass the tests required by this subpart while operated in that range.

(i) *Higher ranges.* The tests may be repeated for one or more higher (broader) ranges (*i.e.*, ranges extending to higher