TABLE C–1 TO SUBPART C OF PART 53—TEST CONCENTRATION RANGES, NUMBER OF MEASUREMENTS REQUIRED, AND MAXIMUM DISCREPANCY SPECIFICATIONS

Pollutant	Concentration range, parts per million (ppm)	Simultaneous measurements required				Maximum discrepancy specification, parts per million
		1-hour		24-hour		
		First set	Second set	First set	Second set	
Ozone	Low 0.06 to 0.10	5	6	....	....	0.02
	Med. 0.15 to 0.25	5	6	....	....	0.03
	High 0.35 to 0.46	4	6	....	....	0.04
	Total	14	18	....	....	
Carbon monoxide	Low 7 to 11	5	6	....	....	1.5
	Med. 20 to 30	5	6	....	....	2.0
	High 25 to 45	4	6	....	....	3.0
	Total	14	18	....	....	
Sulfur dioxide	Low 0.02 to 0.05	5	6	3	3	0.02
	Med. 0.10 to 0.15	5	6	2	3	0.03
	High 0.30 to 0.50	4	6	2	2	0.04
	Total	14	18	7	8	
Nitrogen dioxide	Low 0.02 to 0.08	....	....	3	3	0.02
	Med. 0.10 to 0.20	....	....	2	2	0.02
	High 0.25	....	....	2	2	0.03
	Total	....	....	7	8	....

TABLE C–2 TO SUBPART C OF PART 53—SEQUENCE OF TEST MEASUREMENTS

Measurement	Concentration range	
	First set	Second set
1	Low	Medium.
2	High	High.
3	Medium	Low.
4	High	High.
5	Low	Medium.
6	Medium	Low.
7	Low	Medium.
8	Medium	Low.
9	High	High.
10	Medium	Low.
11	High	Medium.
12	Low	High.
13	Medium	Medium.
14	Low	High.
15		Low.
16		Medium.
17		Low.
18		High.

TABLE C–3 TO SUBPART C OF PART 53—TEST SPECIFICATIONS FOR PB IN TSP AND PB IN PM₁₀ METHODS

TABLE C–3 TO SUBPART C OF PART 53—TEST SPECIFICATIONS FOR PB IN TSP AND PB IN PM$_{10}$ METHODS

Concentration range equivalent to percentage of NAAQS in µg/m³.	30% to 250%
Minimum number of 24-hr measurements.	5
Maximum reference method analytical bias, D_q.	±5%
Maximum precision, P_R or P_C	≤15%
Maximum difference (D)	±20%
Estimated Method Detection Limit (MDL), µg/m³.	5% of NAAQS level.

[73 FR 67059, Nov. 12, 2008]

TABLE C–4 TO SUBPART C OF PART 53—TEST SPECIFICATIONS FOR PM$_{10}$, PM$_{2.5}$ AND PM$_{10-2.5}$ CANDIDATE EQUIVALENT METHODS

Specification	PM$_{10}$	PM$_{2.5}$			PM$_{10-2.5}$	
		Class I	Class II	Class III	Class II	Class III
Acceptable concentration range (R$_j$), µg/m³.	15–300	3–200 ..	3–200	3–200	3–200	3–200
Minimum number of test sites.	2	1	2	4	2	4

Specification	PM$_{10}$	PM$_{2.5}$			PM$_{10-2.5}$	
		Class I	Class II	Class III	Class II	Class III
Minimum number of candidate method samplers or analyzers per site.	3	3	3 [1]	3 [1]	3 [1]	3 [1]
Number of reference method samplers per site.	3	3	3 [1]	3 [1]	3 [1]	3 [1]
Minimum number of acceptable sample sets per site for PM$_{10}$ methods:						
R_j < 60 µg/m³	3					
R_j > 60 µg/m³	3					
Total	10					
Minimum number of acceptable sample sets per site for PM$_{2.5}$ and PM$_{10-2.5}$ candidate equivalent methods:						
R_j < 30 µg/m³ for 24-hr or R_j < 20 µg/m³ for 48-hr samples.	....	3				
R_j > 30 µg/m³ for 24-hr or R_j > 20 µg/m³ for 48-hr samples.	3					
Each season	10	23	23	23	23	
Total, each site	10	23	23 (46 for two-season sites)	23	23 (46 for two-season sites)	
Precision of replicate reference method measurements, P_{Rj} or RP_{Rj}, respectively; RP for Class II or III PM$_{2.5}$ or PM$_{10-2.5}$, maximum.	5 µg/m³ or 7%.	2 µg/m³ or 5%.	10% [2]	10% [2]	10% [2]	10% [2]
Precision of PM$_{2.5}$ or PM$_{10-2.5}$ candidate method, CP, each site.	10% [2] ...	15% [2] ...	15% [2]	15% [2]		
Slope of regression relationship.	1 ± 0.10	1 ± 0.05	1 ± 0.10	1 ± 0.10	1 ± 0.10	1 ± 0.12
Intercept of regression relationship, µg/m³.	0 ± 5	0 ± 1	Between: 13.55 − (15.05 × slope), but not less than −1.5; and 16.56 − (15.05 × slope), but not more than +1.5	Between: 15.05 − (17.32 × slope), but not less than −2.0; and 15.05 − (13.20 × slope), but not more than +2.0	Between: 62.05 − (70.5 × slope), but not less than −3.5; and 78.95 − (70.5 × slope), but not more than +3.5	Between: 70.50 − (82.93 × slope), but not less than −7.0; and 70.50 − (61.16 × slope), but not more than +7.0
Correlation of reference method and candidate method measurements.	≥ 0.97 ..	≥ 0.97 ..	≥ 0.93—for CCV ≤ 0.4; ≥ 0.85 + 0.2 × CCV—for 0.4 ≤ CCV ≤ 0.5; ≥ 0.95—for CCV ≥ 0.5				

[1] Some missing daily measurement values may be permitted; see test procedure.
[2] Calculated as the root mean square over all measurement sets.

[72 FR 32203, June 12, 2007]

TABLE C–5 TO SUBPART C OF PART 53—SUMMARY OF COMPARABILITY FIELD TESTING CAMPAIGN SITE AND SEASONAL REQUIREMENTS FOR CLASS II AND III FEMS FOR PM$_{10-2.5}$ AND PM$_{2.5}$

Candidate method	Test site	A	B	C	D
PM$_{2.5}$	Test site location area.	Los Angeles basin or California Central Valley.	Western city such as Denver, Salt Lake City, or Albuquerque.	Midwestern city	Northeastern or mid-Atlantic city.