

TABLE B-3 TO SUBPART B OF PART 53—INTERFERENT TEST CONCENTRATION, ¹ PARTS PER MILLION

Pollutant	Analyzer type	Hydrochloric acid	Ammonia	Hydrogen sulfide	Sulfur dioxide	Nitrogen dioxide	Nitric oxide	Carbon dioxide	Ethylene	Ozone	Methylene	Water vapor	Carbon monoxide	Methane	Ethane	Naphthalene
SO ₂ ..	Ultraviolet fluorescence .....	.....	.....	⁵ 0.1	40.14	0.5	0.5	.....	.....	0.5	0.2	20,000	.....	.....	.....	⁶ 0.05
SO ₂ ..	Flame photometric .....	.....	.....	0.01	40.14	.....	.....	750	.....	.....	.....	³ 20,000	.....	.....	.....	.....
SO ₂ ..	Gas chromatography .....	.....	.....	0.1	40.14	.....	.....	750	.....	.....	.....	³ 20,000	.....	.....	.....	.....
SO ₂ ..	Spectrophotometric-wet chemical (parosanaline)	0.2	0.1	0.1	40.14	0.5	.....	750	.....	0.5	.....	.....	.....	.....	.....	.....
SO ₂ ..	Electrochemical	0.2	0.1	0.1	40.14	0.5	0.5	.....	0.2	0.5	.....	³ 20,000	.....	.....	.....	.....
SO ₂ ..	Conductivity	0.2	0.1	.....	40.14	0.5	.....	750	.....	.....	.....	.....	.....	.....	.....	.....
SO ₂ ..	Spectrophotometric-gas phase, including DOAS .....	.....	.....	.....	40.14	0.5	.....	.....	.....	0.5	0.2	.....	.....	.....	.....	.....
O ₃ ...	Chemiluminescent .....	.....	.....	³ 0.1	.....	.....	.....	750	.....	4 0.08	.....	³ 20,000	.....	.....	.....	.....
O ₃ ...	Electrochemical .....	.....	³ 0.1	.....	0.5	0.5	.....	.....	.....	4 0.08	.....	.....	.....	.....	.....	.....
O ₃ ...	Spectrophotometric-wet chemical (potassium iodide) .....	.....	³ 0.1	.....	0.5	0.5	³ 0.5	.....	.....	4 0.08	.....	.....	.....	.....	.....	.....
O ₃ ...	Spectrophotometric-gas phase, including ultraviolet absorption and DOAS) .....	.....	.....	.....	0.5	0.5	.....	.....	.....	4 0.08	0.02	20,000	.....	.....	.....	.....
CO ...	Non-dispersive infrared .....	.....	.....	.....	.....	.....	.....	750	.....	.....	.....	20,000	4 10	.....	.....	.....
CO ...	Gas chromatography with flame ionization detector .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20,000	4 10	.....	0.5	.....
CO ...	Electrochemical .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20,000	4 10	.....	.....	.....
CO ...	Catalytic combustion-thermal detection .....	.....	0.1	.....	.....	.....	0.5	750	0.2	.....	.....	20,000	4 10	5.0	0.5	.....
CO ...	IR fluorescence .....	.....	.....	.....	.....	.....	.....	750	0.2	.....	.....	20,000	4 10	.....	0.5	.....
CO ...	Mercury replacement-UV photometric .....	.....	.....	.....	.....	.....	.....	.....	0.2	.....	.....	20,000	4 10	.....	0.5	.....
NO ₂ ..	Chemiluminescent .....	.....	³ 0.1	.....	0.5	4 0.1	0.5	.....	.....	.....	.....	20,000	.....	.....	.....	.....
NO ₂ ..	Spectrophotometric-wet chemical (azo-dye reaction) .....	.....	.....	.....	0.5	4 0.1	0.5	750	.....	.....	.....	20,000	.....	.....	.....	.....
NO ₂ ..	Electrochemical	0.2	³ 0.1	.....	0.5	4 0.1	0.5	750	.....	.....	.....	20,000	50	.....	.....	.....
NO ₂ ..	Spectrophotometric-gas phase .....	.....	³ 0.1	.....	0.5	4 0.1	0.5	.....	.....	.....	.....	20,000	50	.....	.....	.....

¹ Concentrations of interferent listed must be prepared and controlled to ±10 percent of the stated value.
² Analyzer types not listed will be considered by the Administrator as special cases.
³ Do not mix with the pollutant.
⁴ Concentration of pollutant used for test. These pollutant concentrations must be prepared to ±10 percent of the stated value.
⁵ If candidate method utilizes an elevated-temperature scrubber for removal of aromatic hydrocarbons, perform this interference test.
⁶ If naphthalene test concentration cannot be accurately quantified, remove the scrubber, use a test concentration that causes a full scale response, reattach the scrubber, and evaluate response for interference.