

Figure 4.1. Detection limit chromatogram.

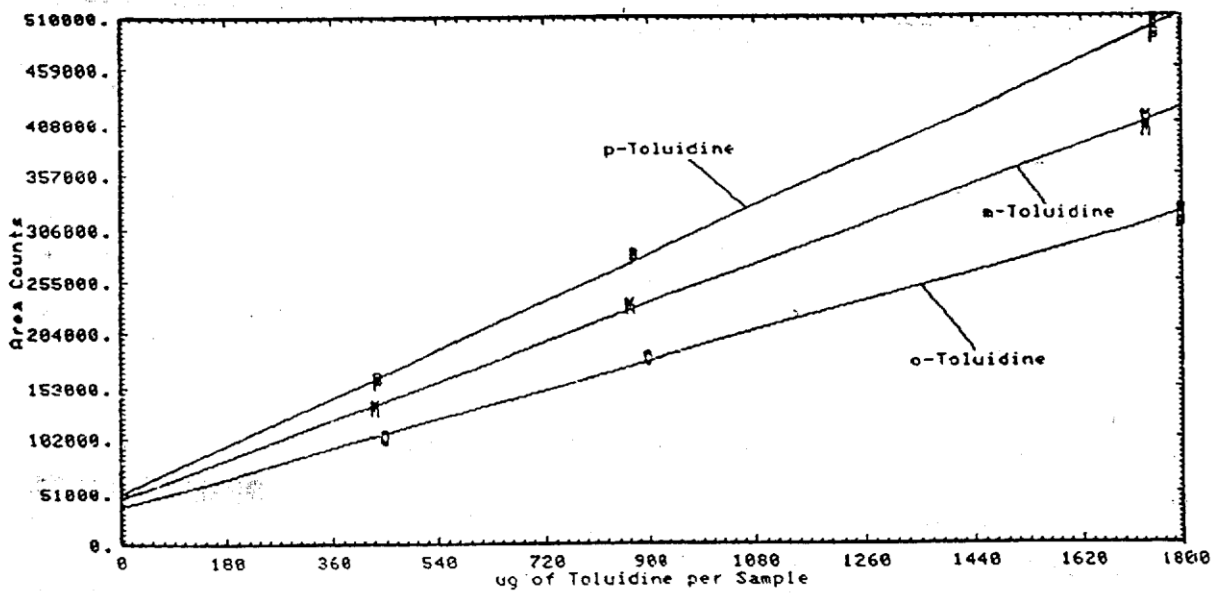


Figure 4.4. Instrument response.

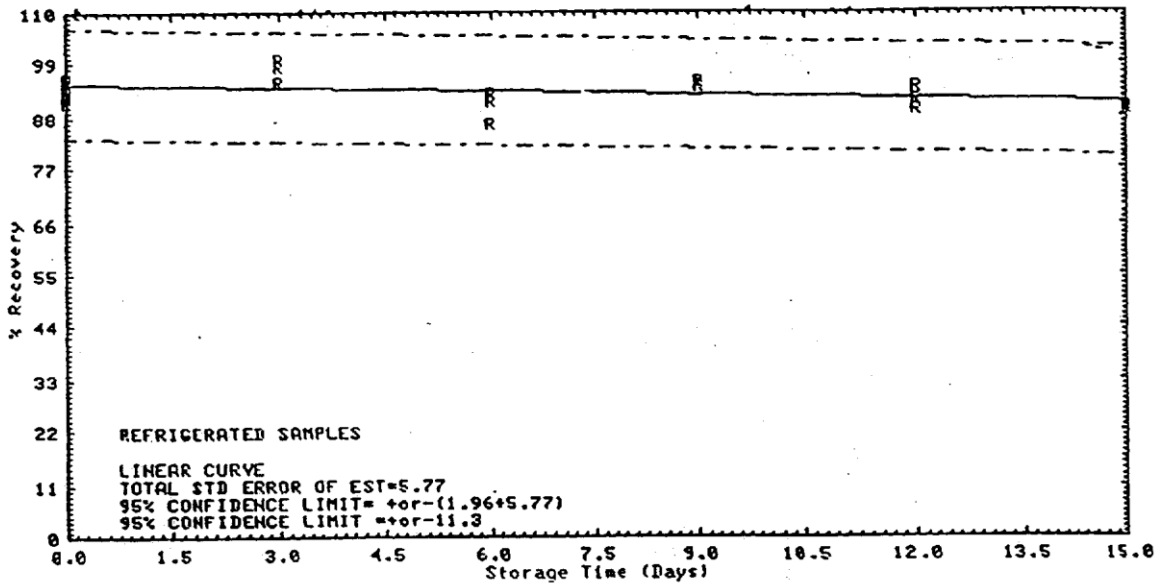


Figure 4.5.1.1. o-Toluidine refrigerated storage samples.

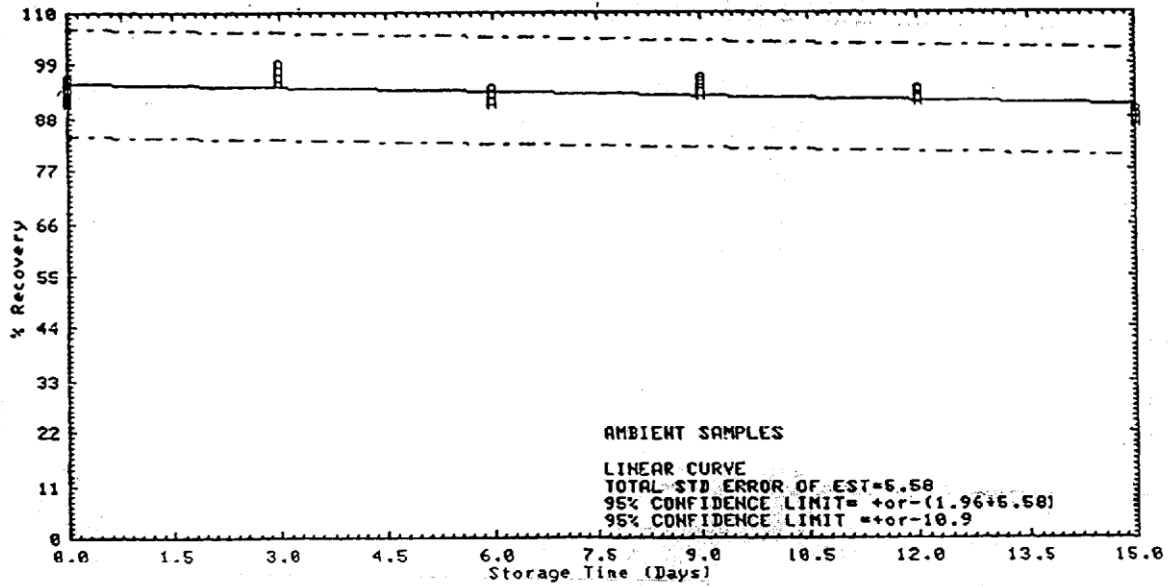


Figure 4.5.1.2. o-Toluidine ambient storage samples.

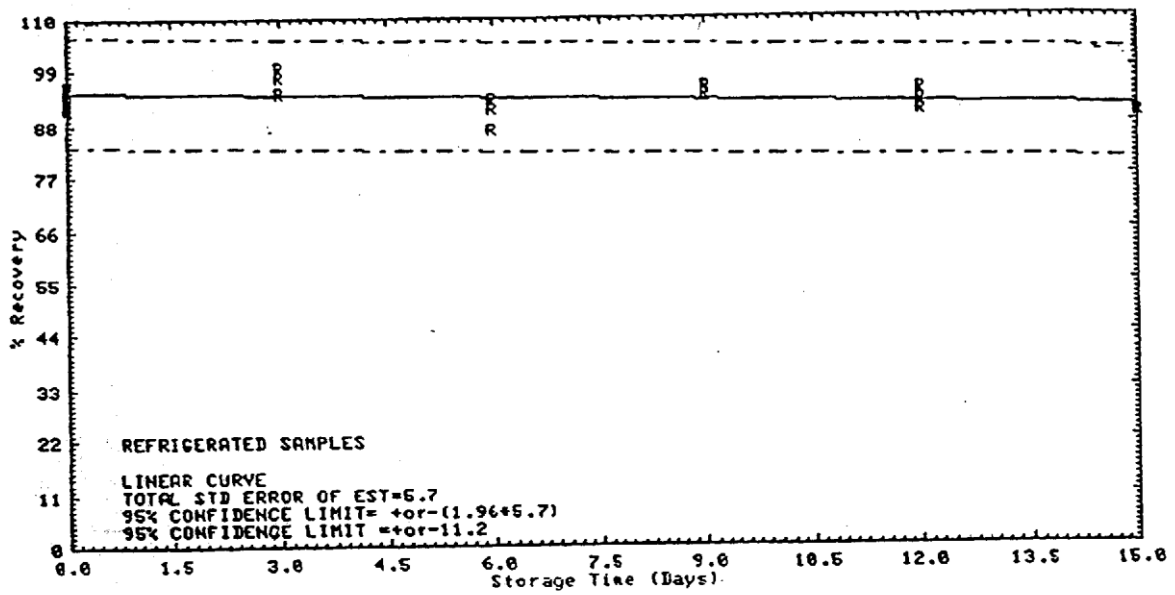


Figure 4.5.2.1. m-Toluidine refrigerated storage samples.

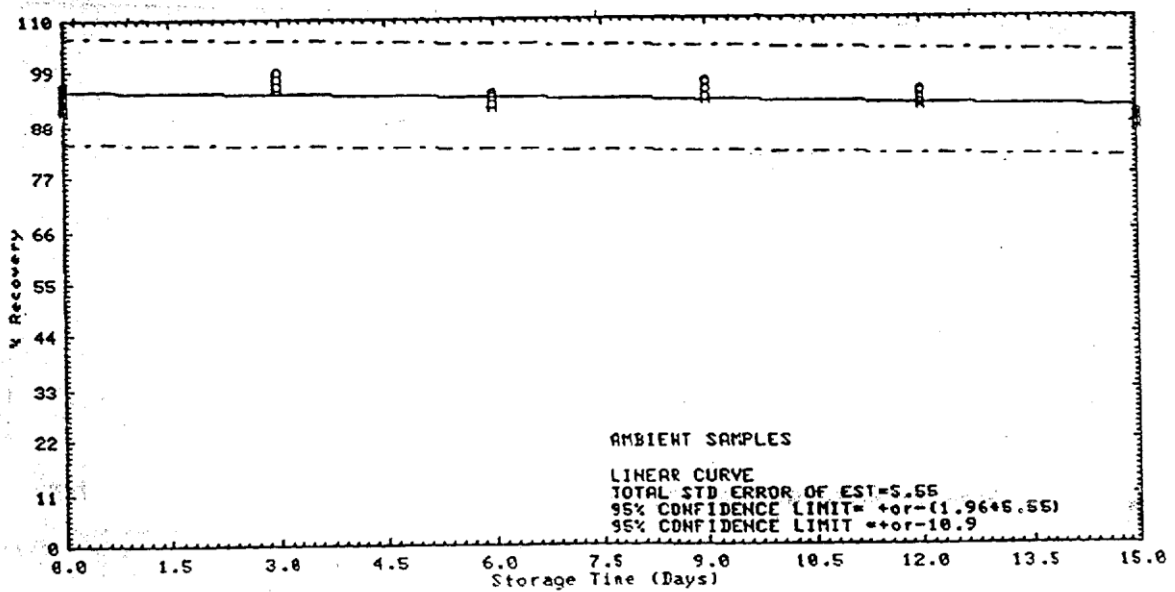


Figure 4.5.2.2. m-Toluidine ambient storage samples.

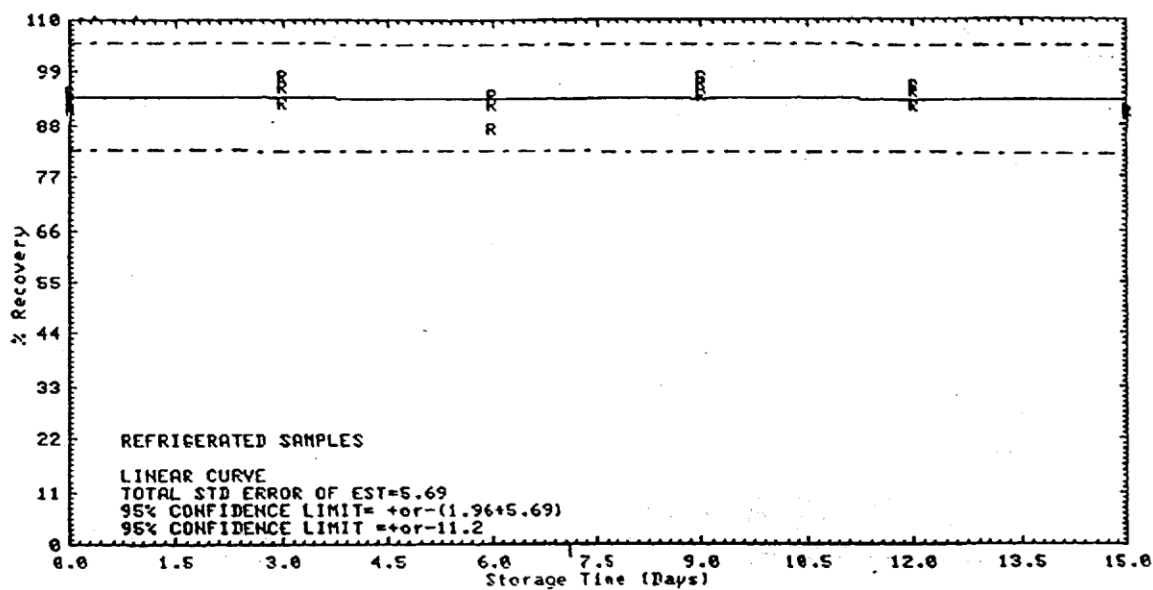


Figure 4.5.3.1. p-Toluidine refrigerated storage samples.

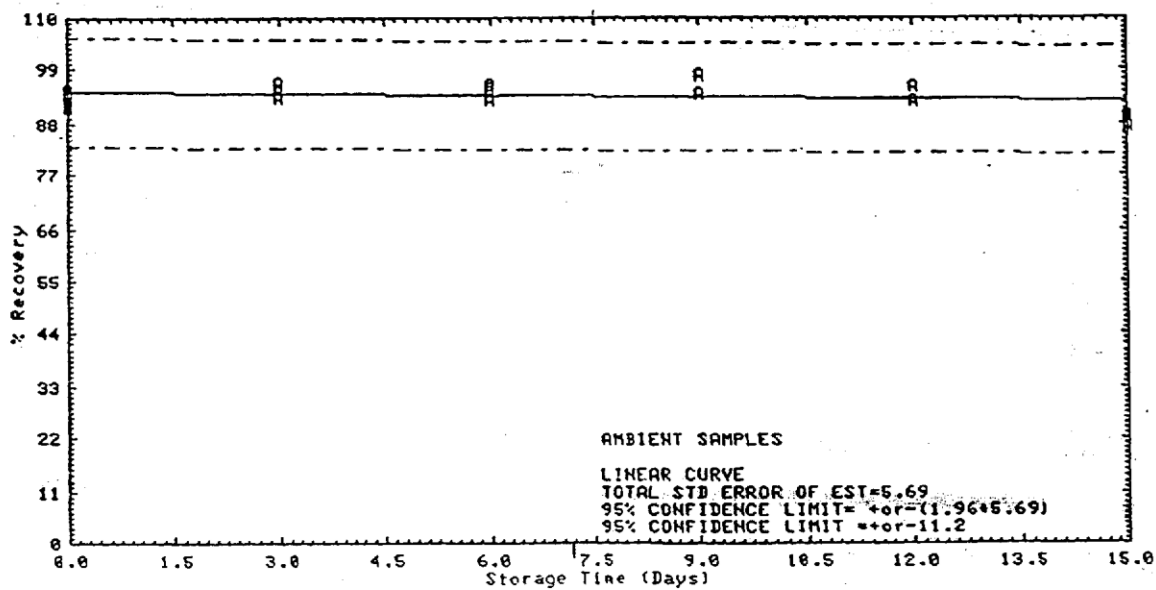


Figure 4.5.3.2. p-Toluidine ambient storage samples.

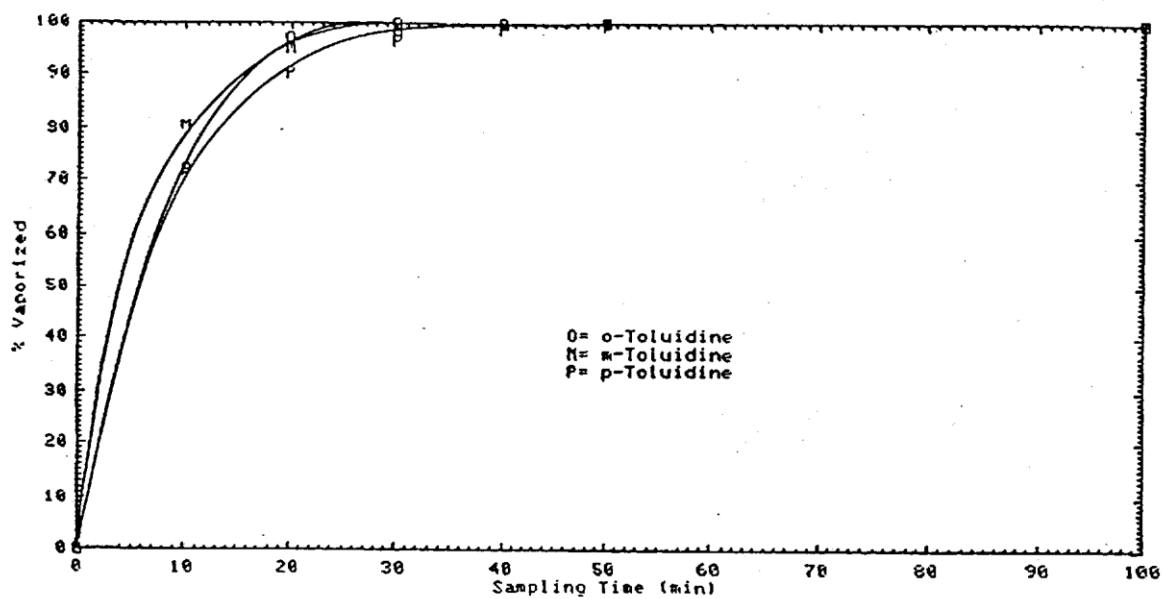


Figure 4.9. Toluidine vapor generation rates.

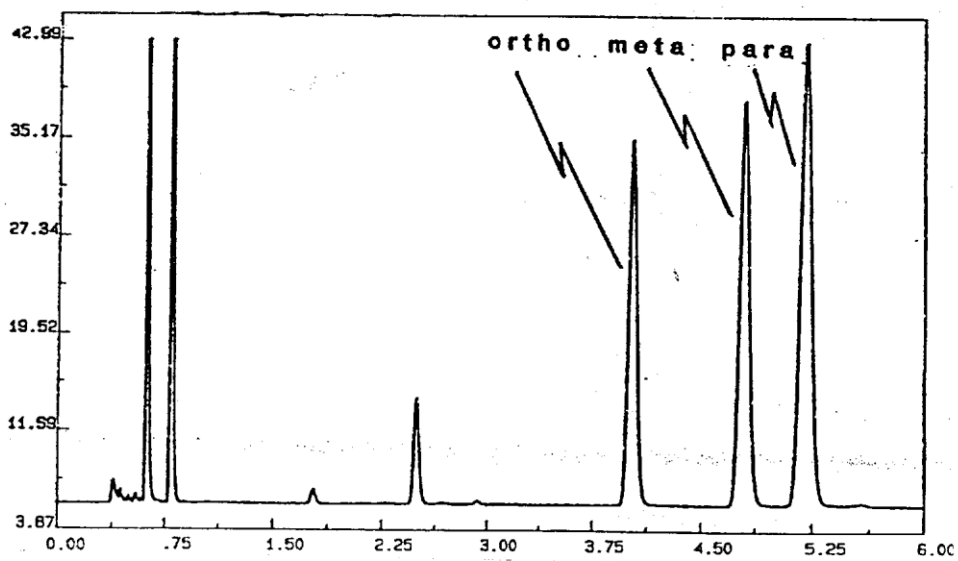


Figure 4.11. Target concentration chromatogram.

## 5. References

- 5.1."Chemical Information Manual", U.S Department of Labor, Occupational Safety and Health Administration, OSHA Instruction CPL 2-2.43, Directorate of Technical Support; National Technical Information Service: Springfield, VA 22161, October 20, 1987.
- 5.2."NIOSH Manual of Analytical Methods", 2nd ed.; U.S Department of Health, Education, and Welfare, National Institute for Occupational Safety and Health: Cincinnati, OH, 1977; Vol. 3, Method No. S168; DHEW(NIOSH) Publ.(U.S.), No. 77-157-C.
- 5.3.Elskamp, C. J. "OSHA Method No. 71; o-Dianisidine, 4,4'-Methylenebis(2-chloroaniline) o-Toluidine", OSHA Analytical Laboratory, unpublished, Salt Lake City, UT 84165, April 1988.
- 5.4.Elskamp, C. J. "OSHA Method No. 65; Benzidine, 3,3'-Dichlorobenzidine, 2,4-Toluenediamine, 2,6-Toluenediamine", OSHA analytical Laboratory, unpublished, Salt Lake City, UT 84165, August 1987.
- 5.5.Elskamp, C. J. "OSHA Method No. 57; 4,4-Methylenedianilin" OSHA Analytical Laboratory, unpublished, Salt Lake City, UT 84165, January 1986.
- 5.6."Documentation of the Threshold Limits Values and Biological Exposure Indices", 5th ed.; American Conference of Governmental Industrial Hygienists Inc.: Cincinnati, OH, 1986; pp 586-591.
- 5.7."Threshold Limit Values and Biological Exposure Indices for 1987-1988"; American Conference of Governmental Industrial Hygienists Inc.: Cincinnati, OH, 1987.
- 5.8."Code of Federal Regulations"; Office of the Federal Register National Archives and Records Service; U.S Government Printing Office: Washington, DC, 1985, 29 CFR Ch. XVII (7-1-85 Edition) 1910.1000, Table Z-1.
- 5.9.Sax, N. I. "Dangerous Properties of Industrial Materials"; Van Nostrand Reinhold: New York, 1979; p 1036.