

United States
Environmental Protection
Agency

Office of Air Quality
Planning and Standards
Research Triangle Park, NC 27711

EPA-454/R-00-040e
September 2000

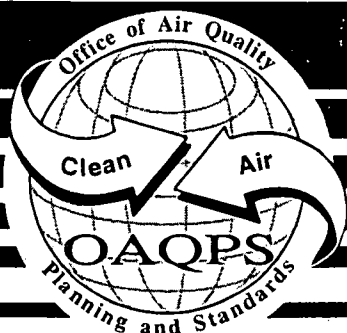
Air



EVALUATION OF PARTICULATE MATTER (PM) CONTINUOUS EMISSION MONITORING SYSTEMS (CEMS)

Final Report

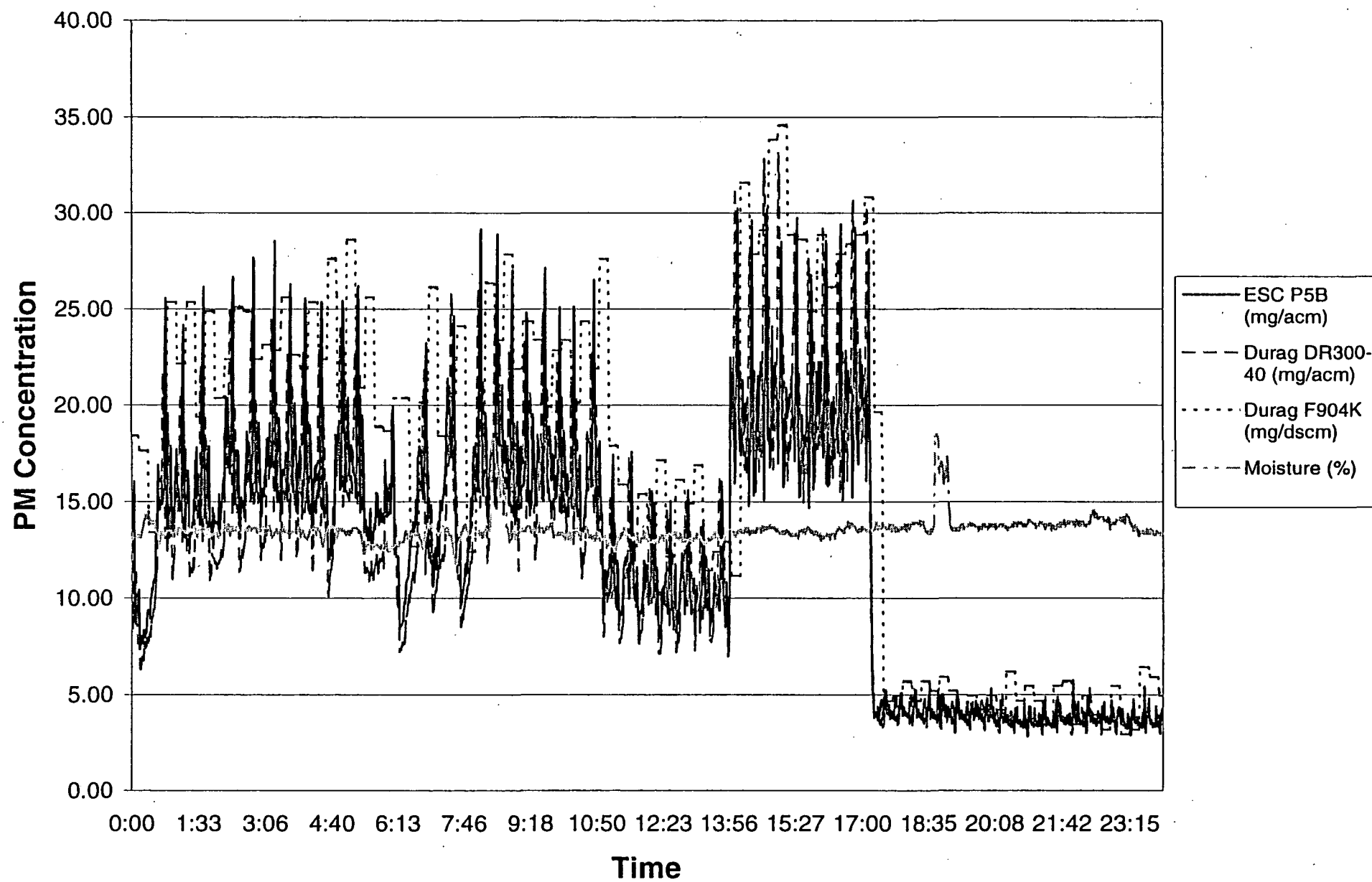
Volume 5—Appendix H



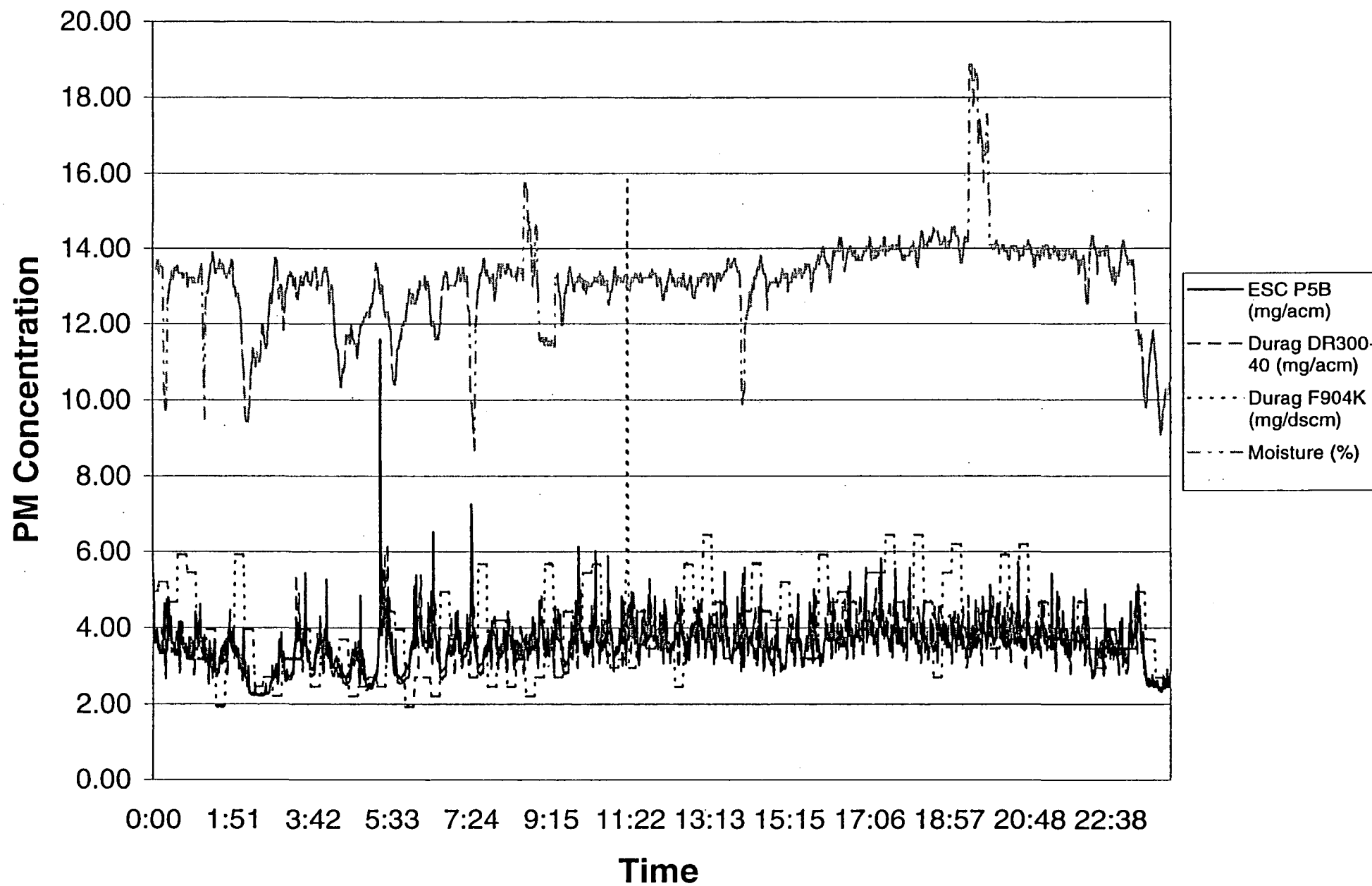
Appendix H

Daily Graphs of CEMS Data

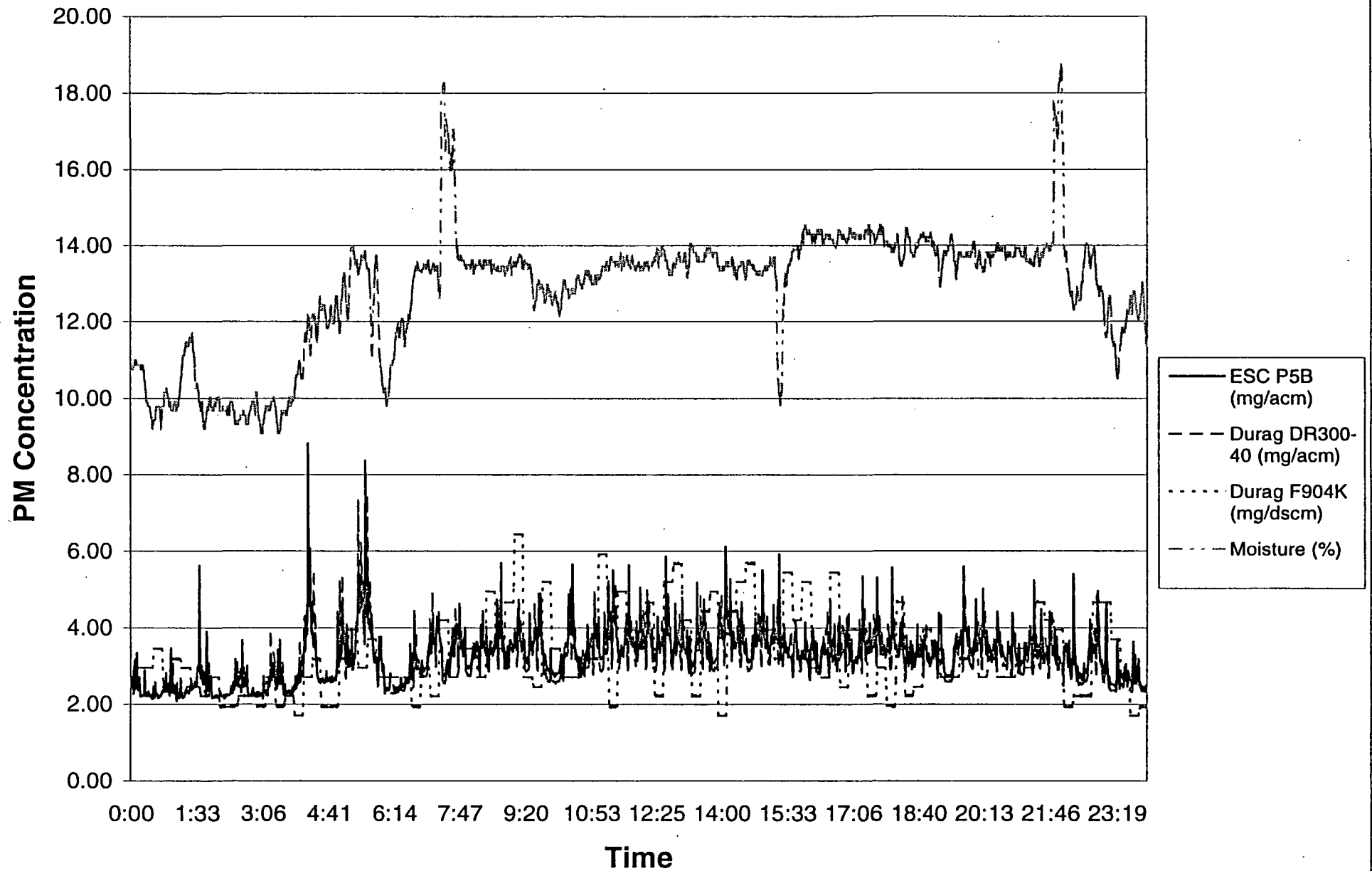
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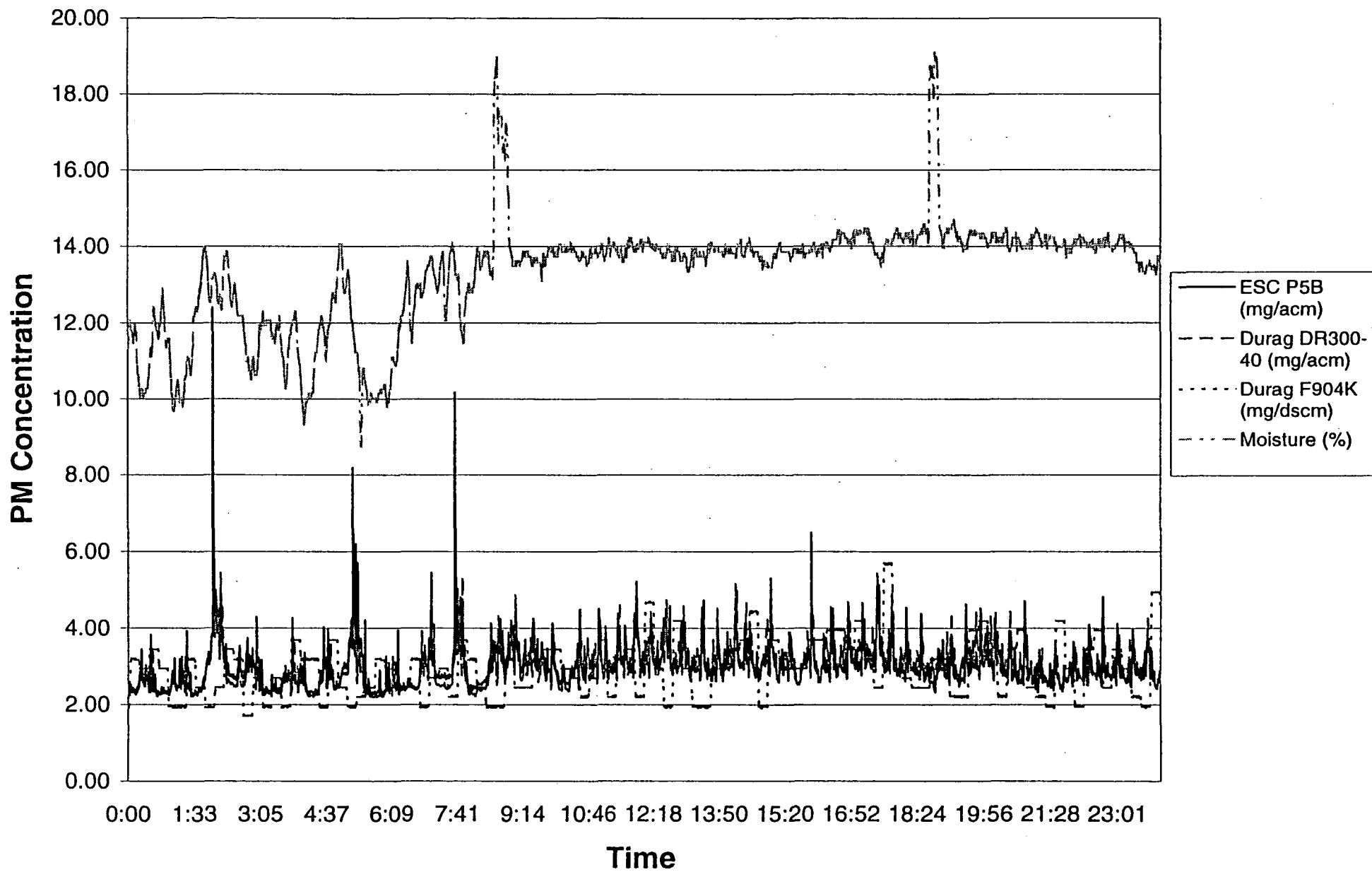
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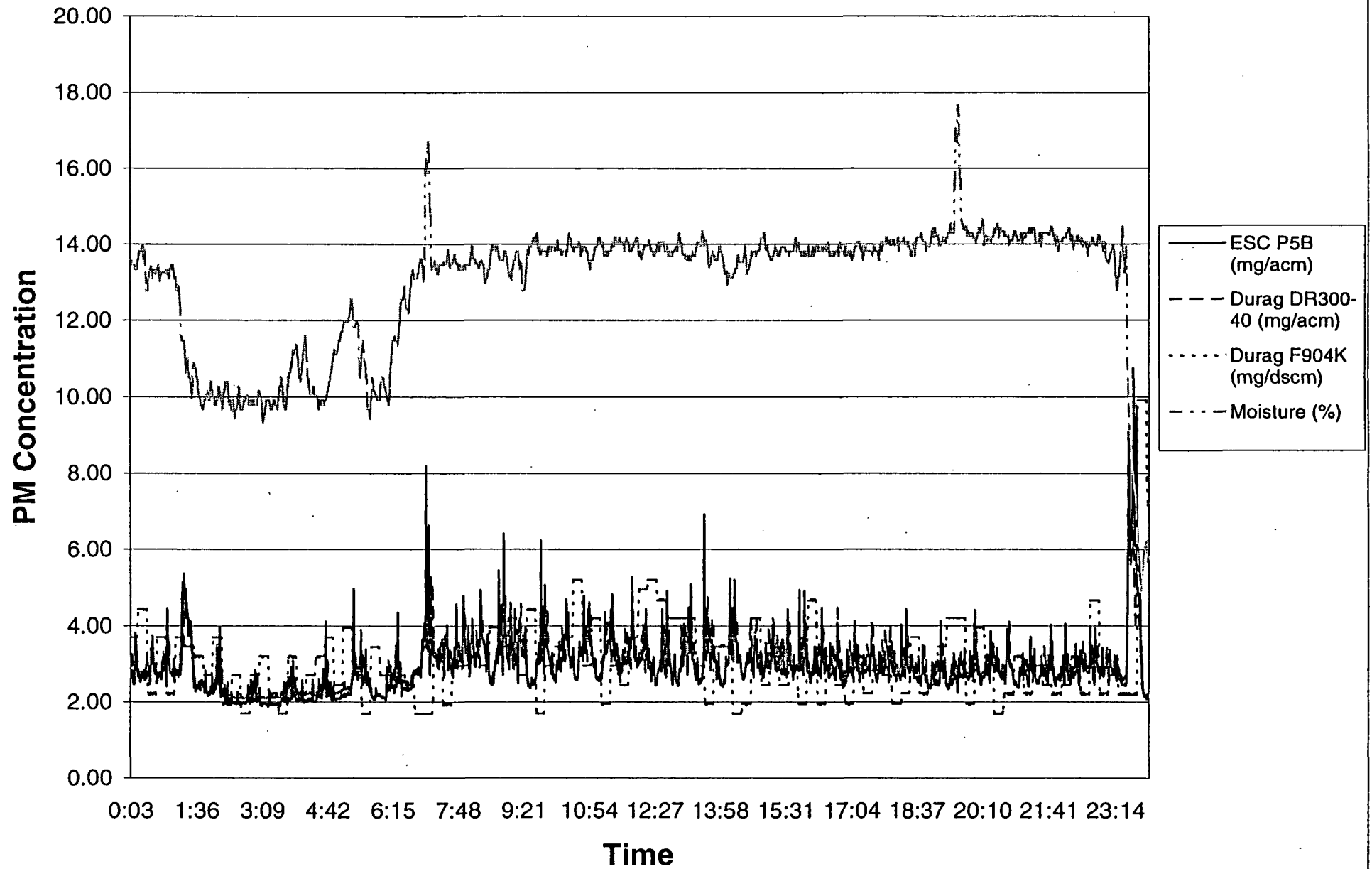
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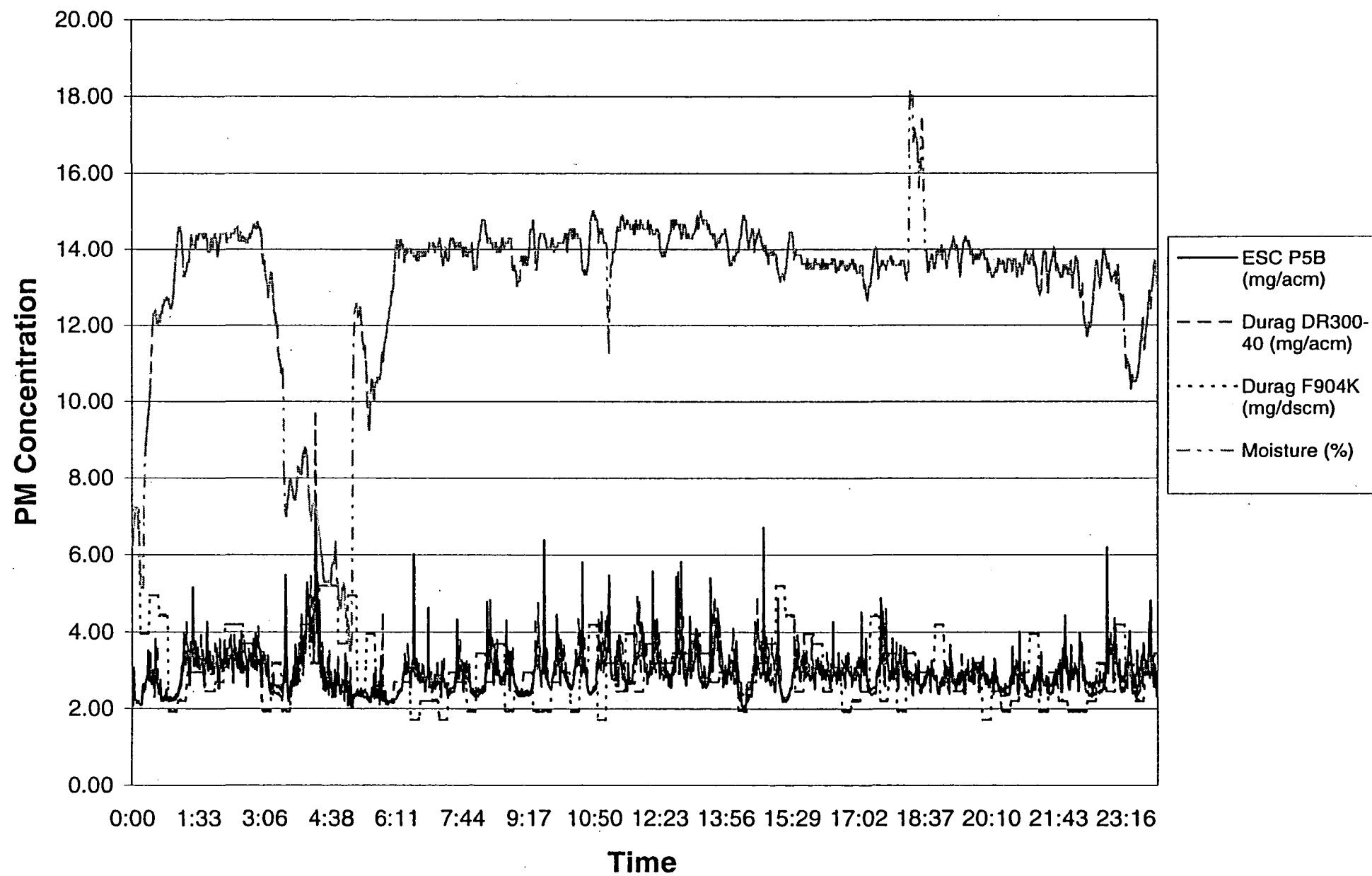
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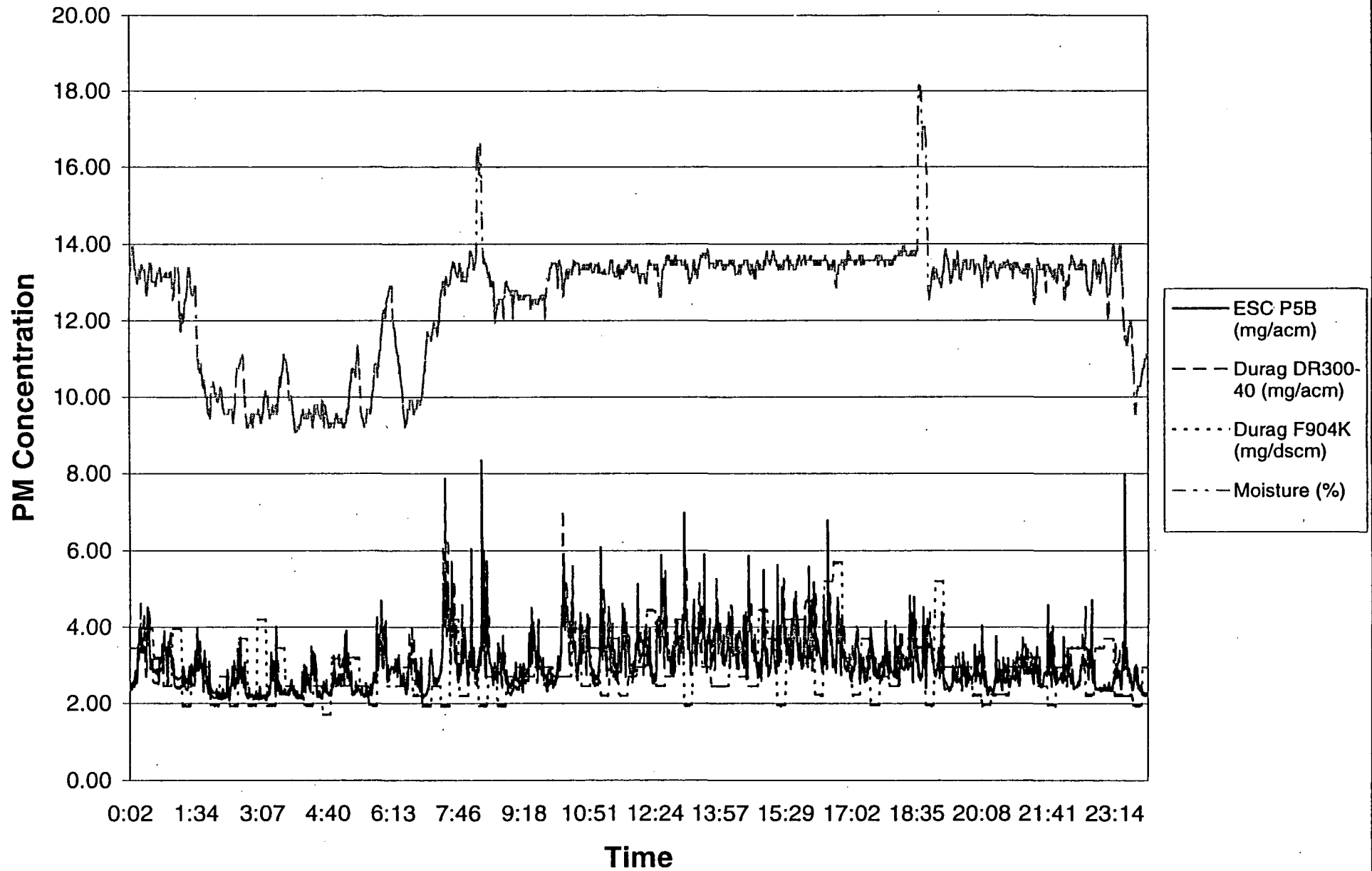
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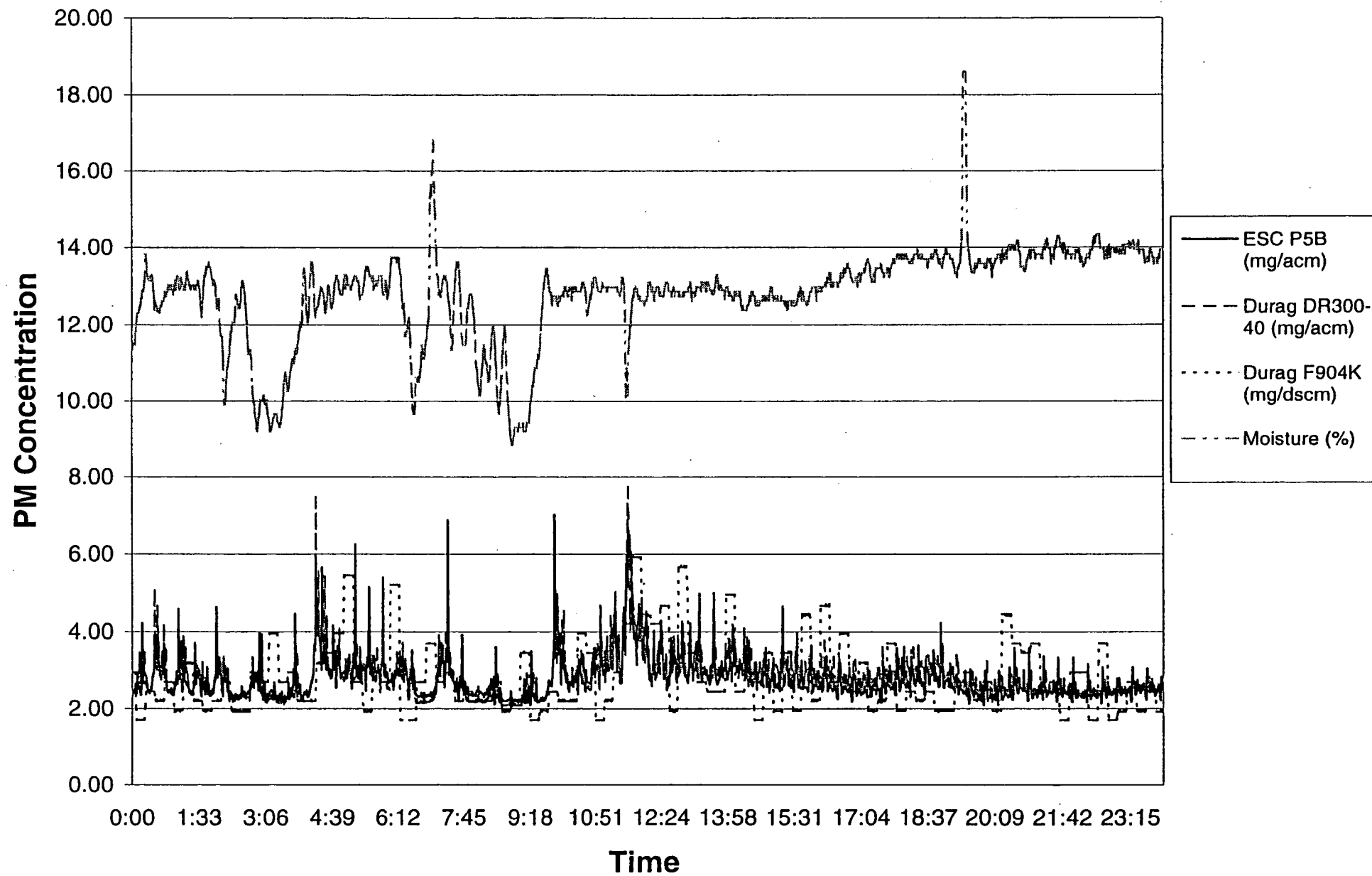
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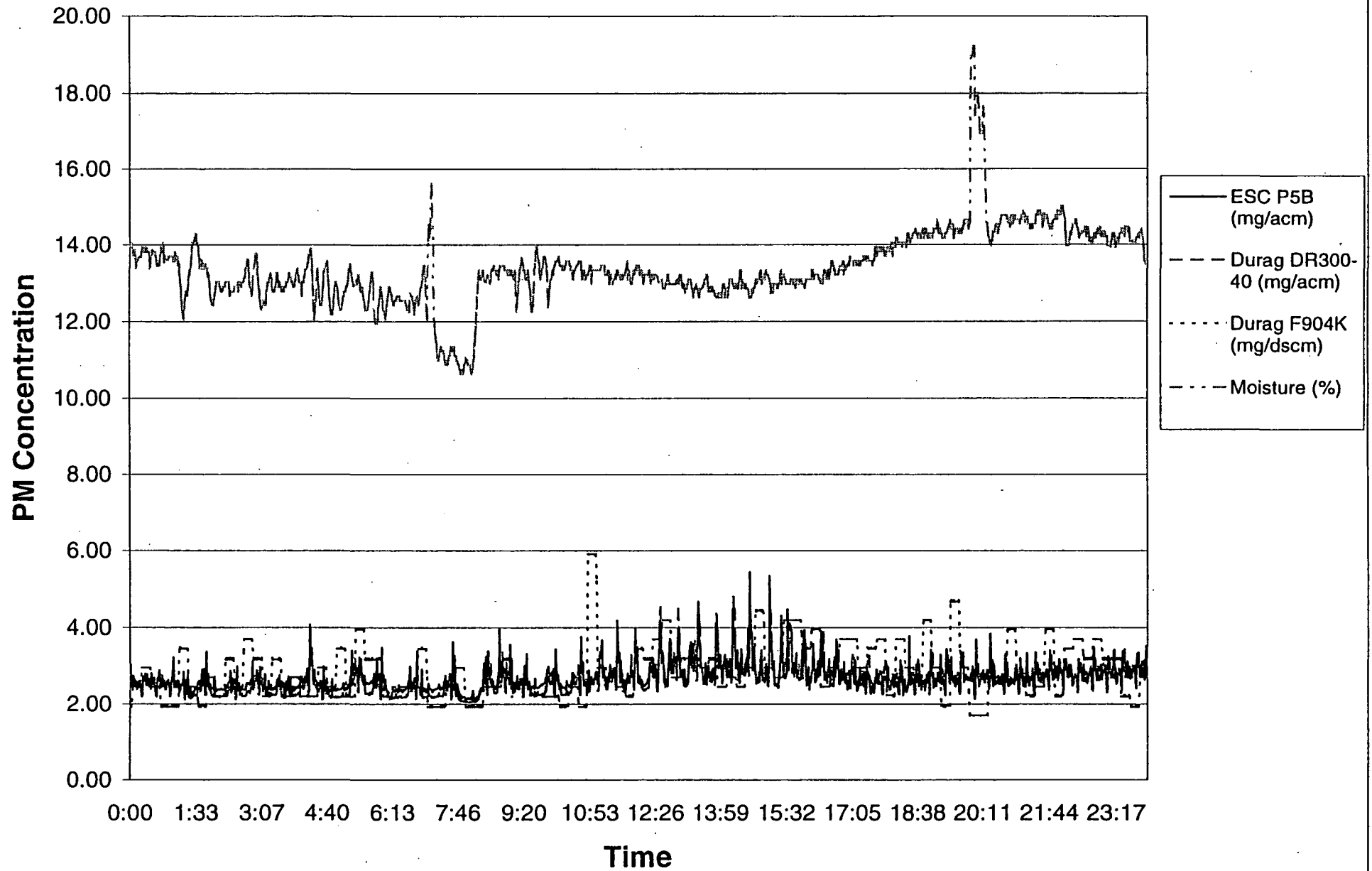
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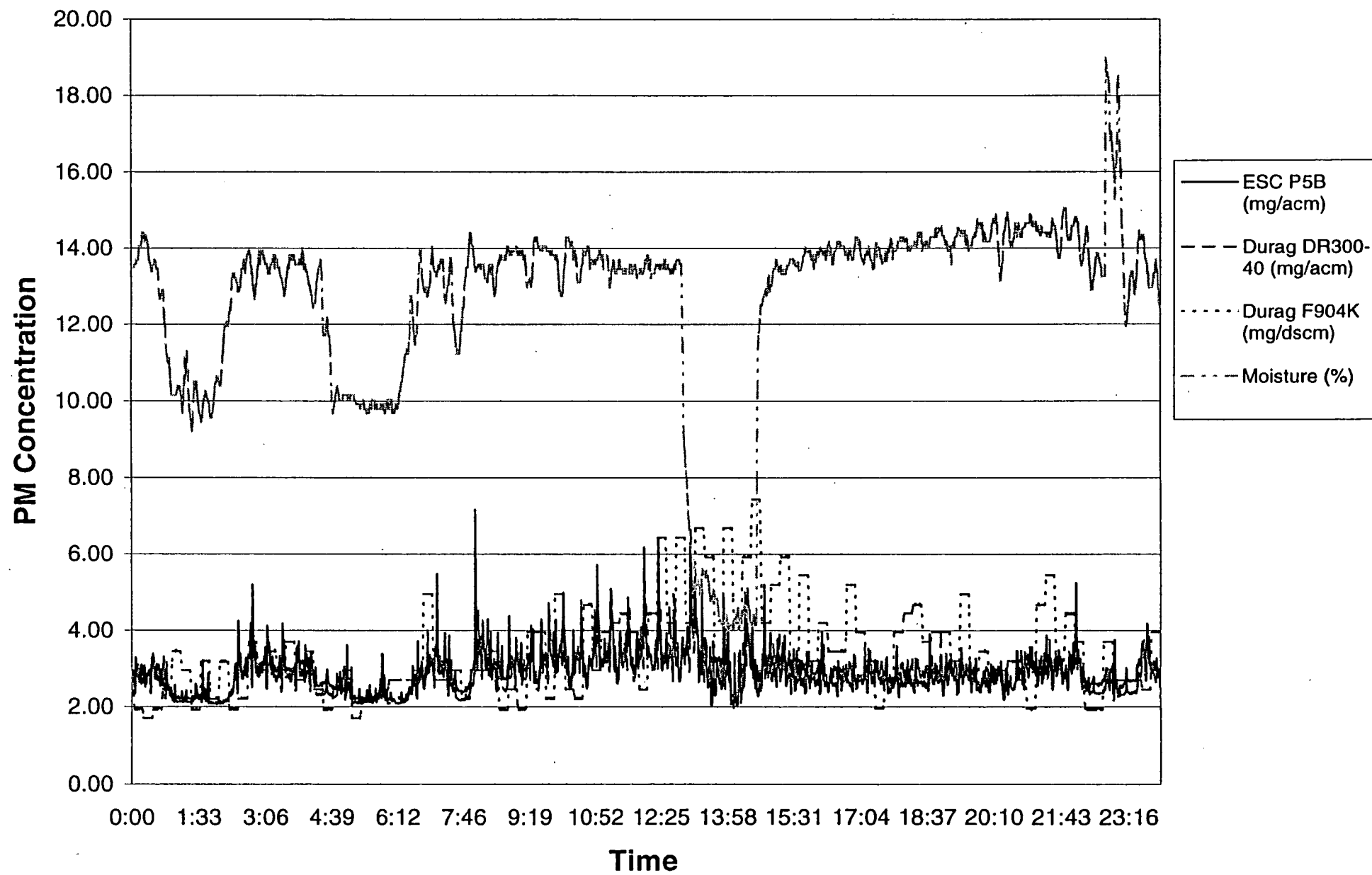
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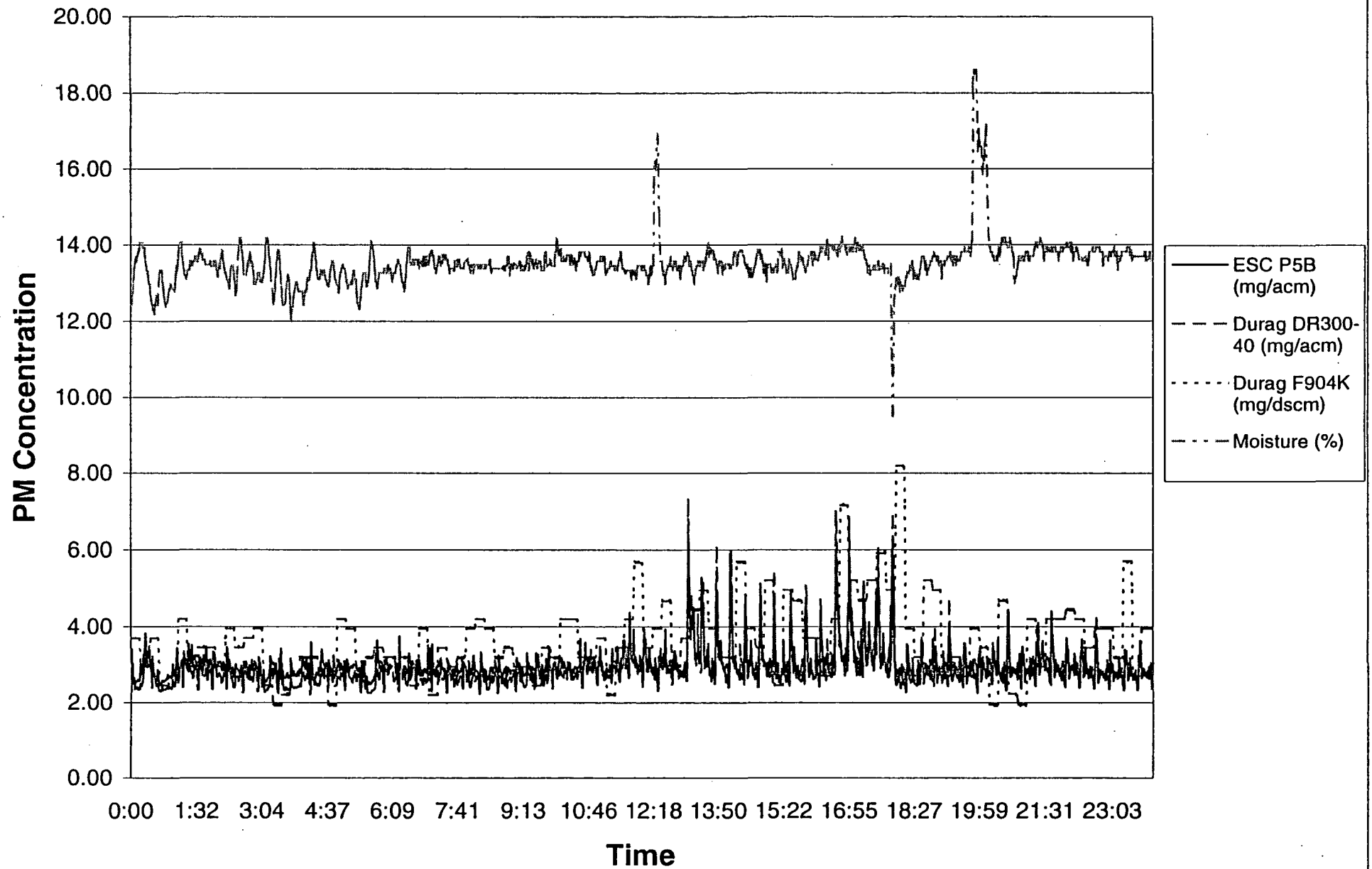
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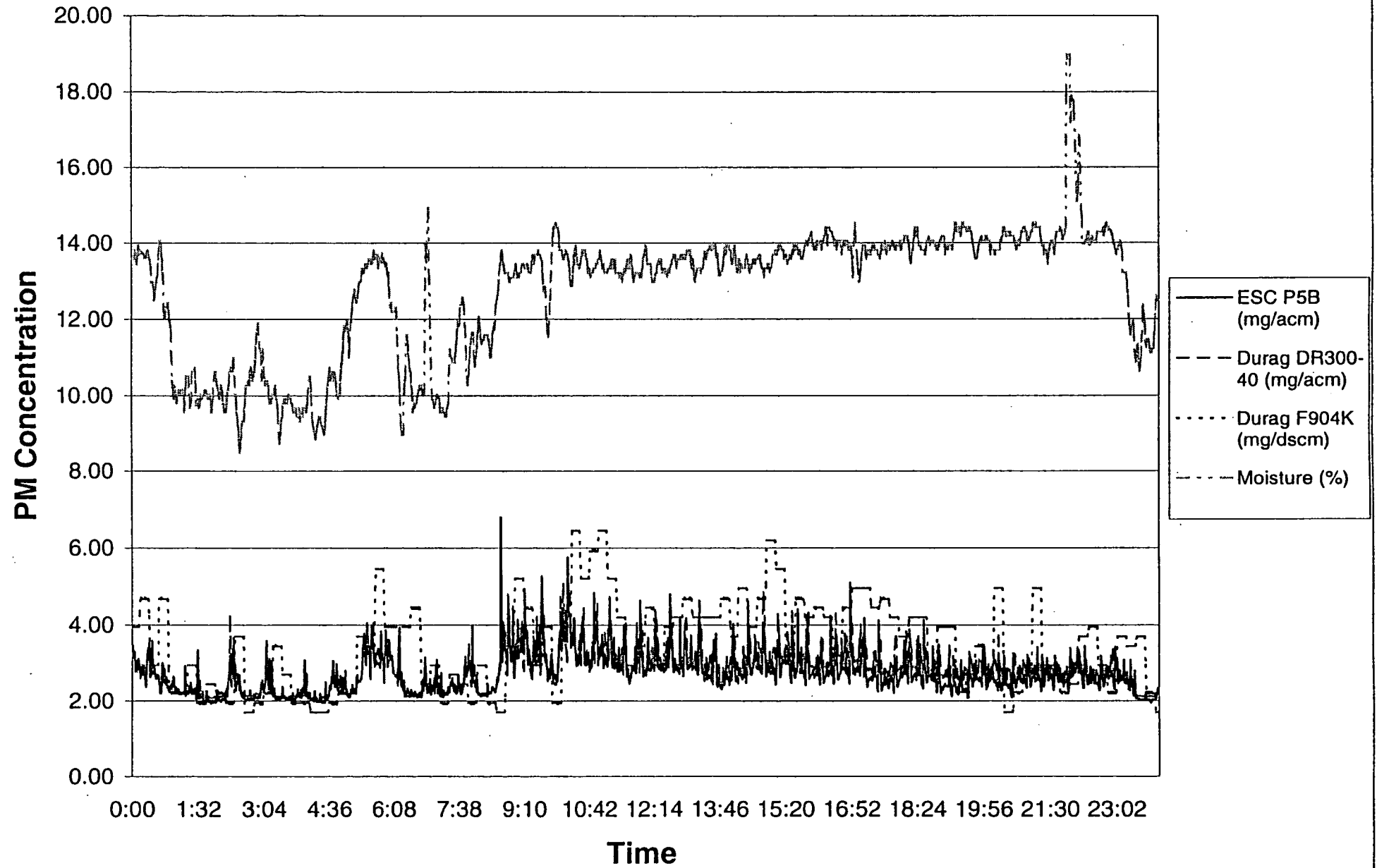
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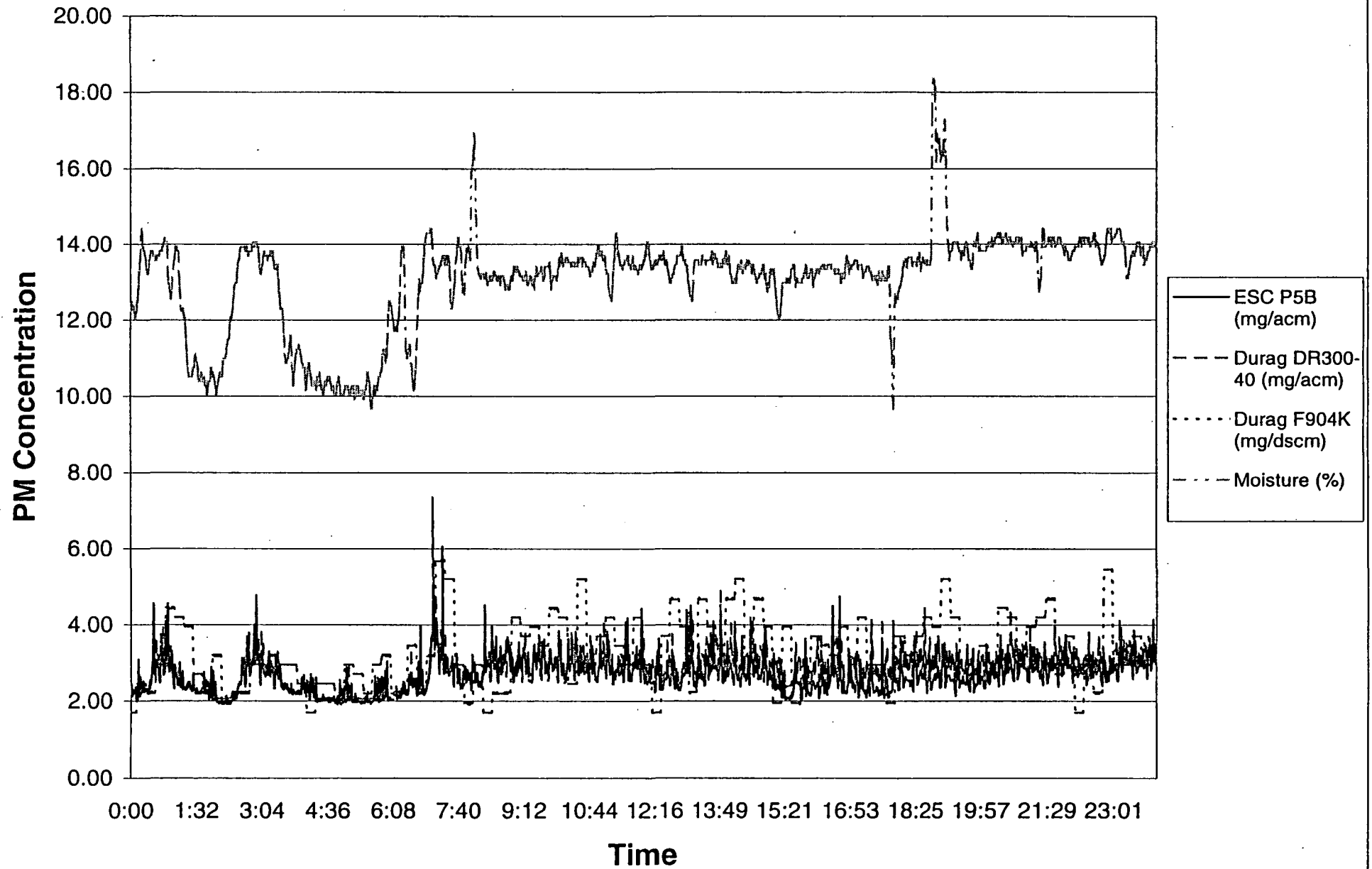
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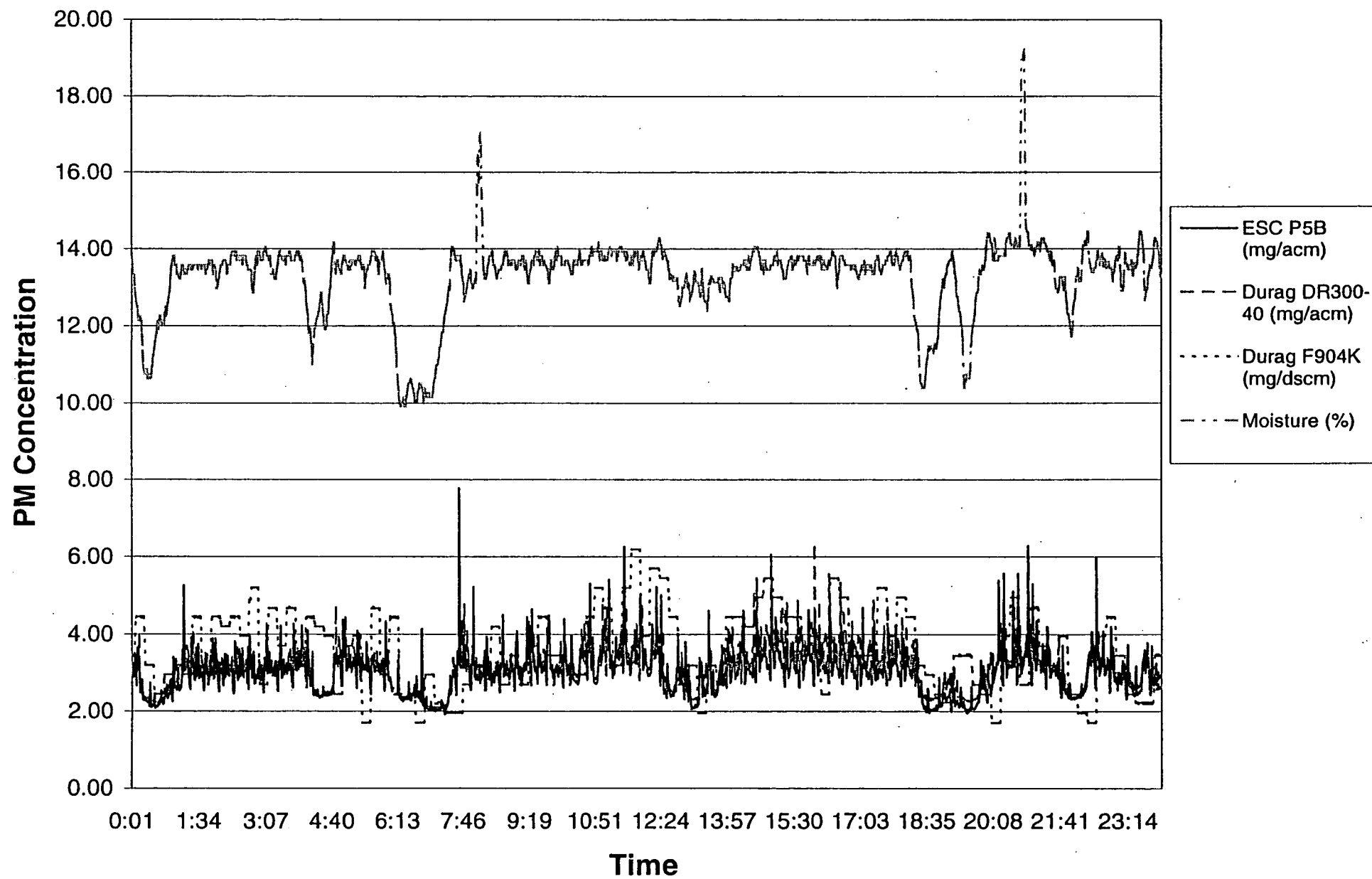
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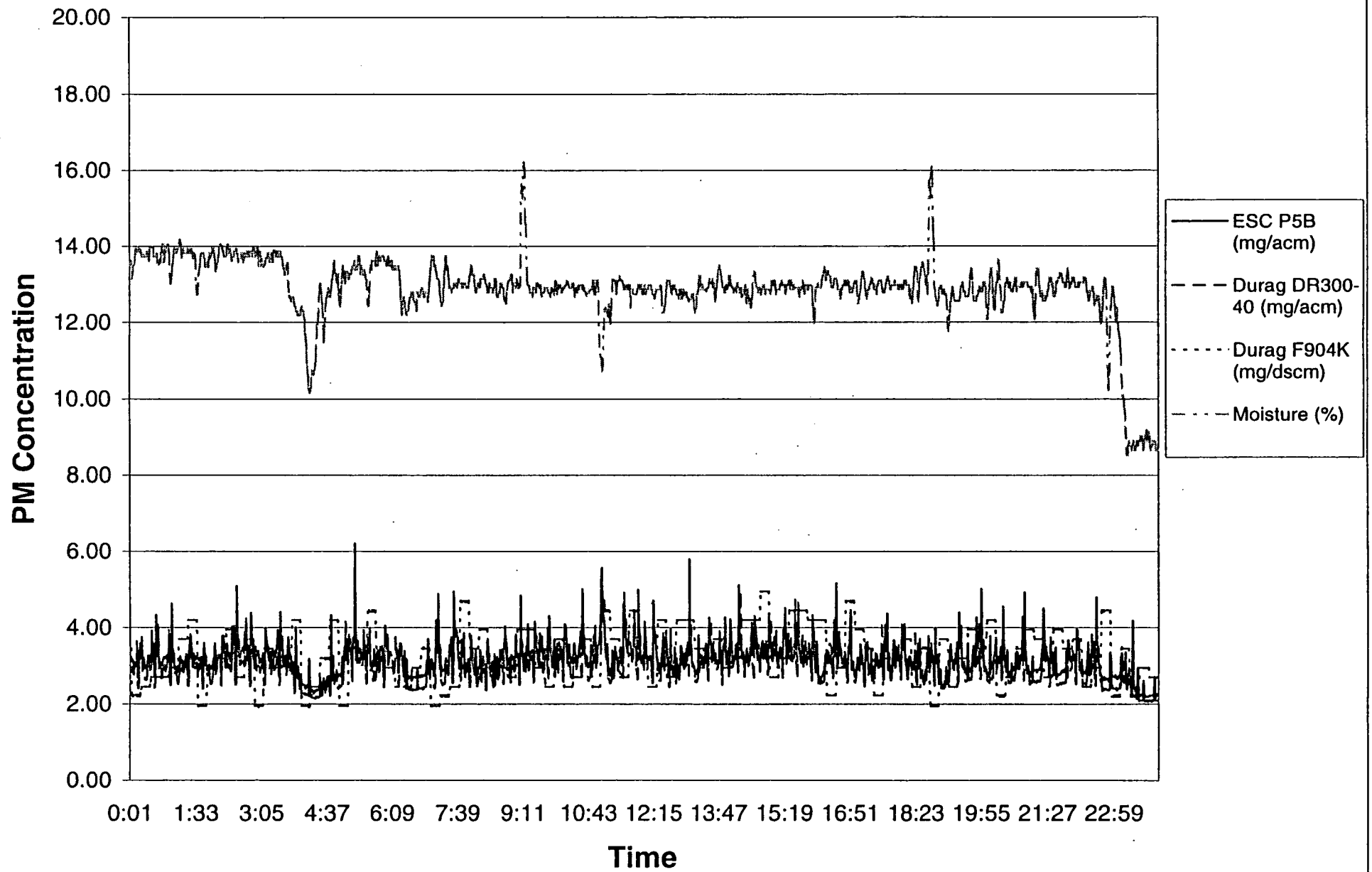
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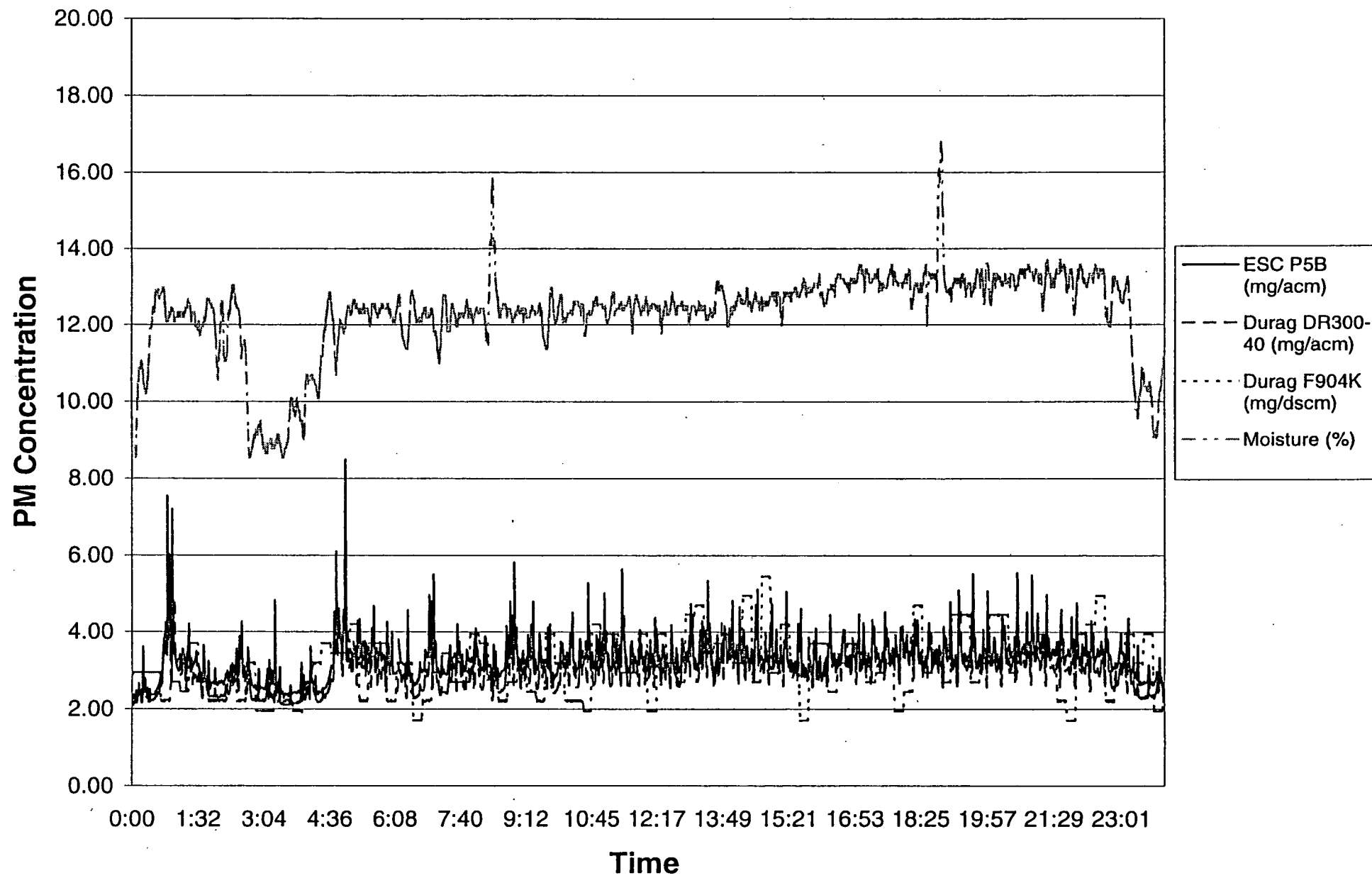
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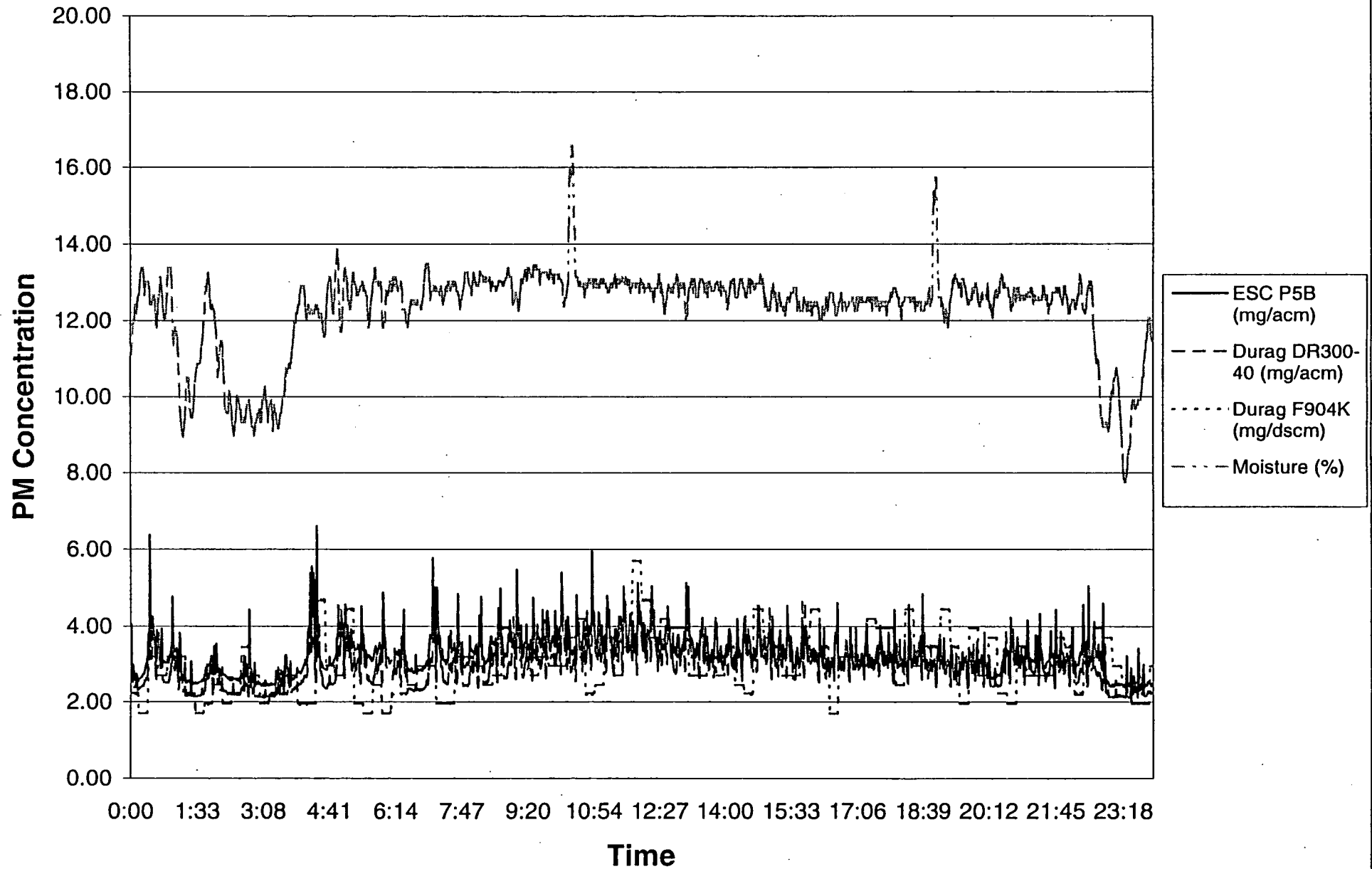
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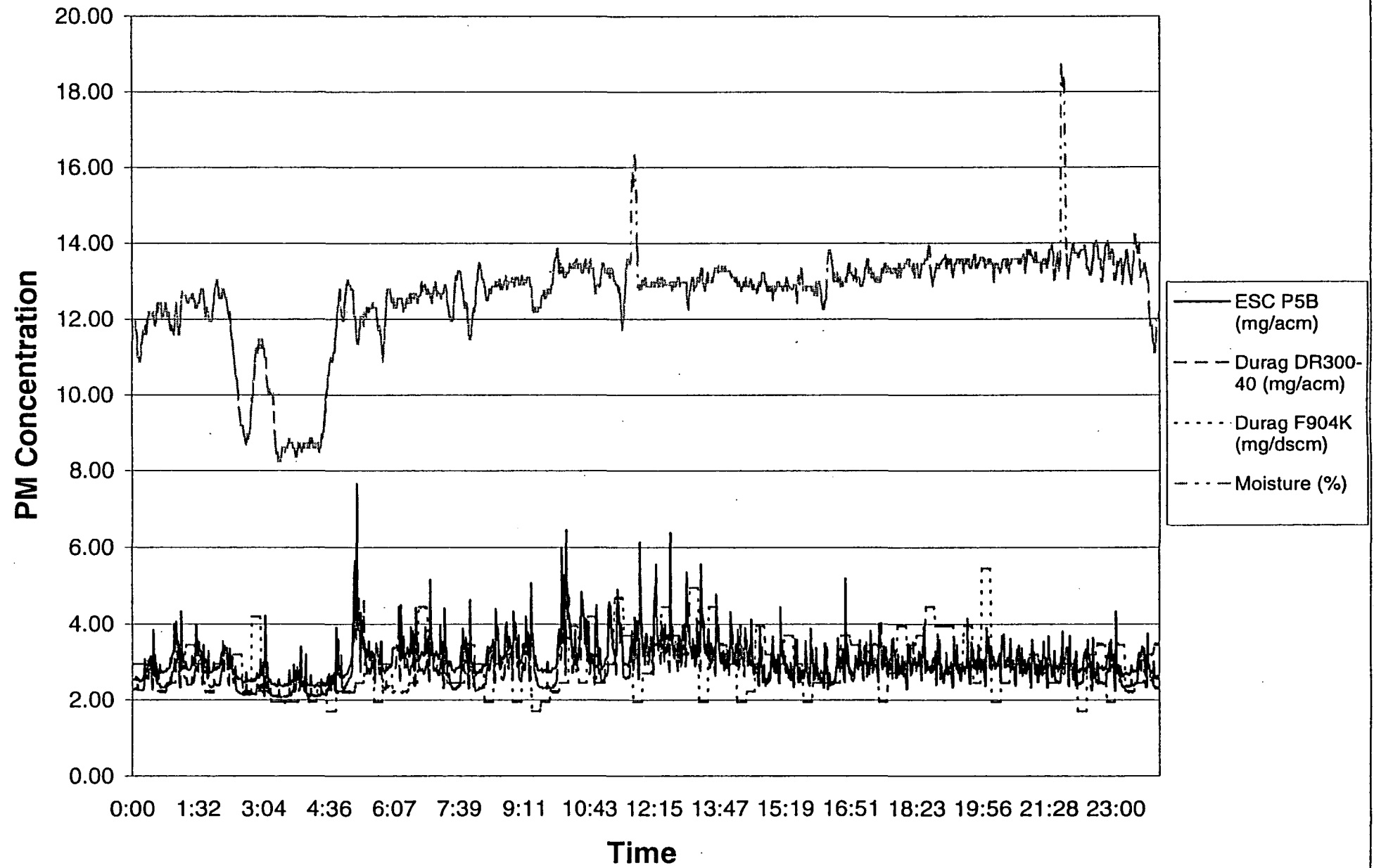
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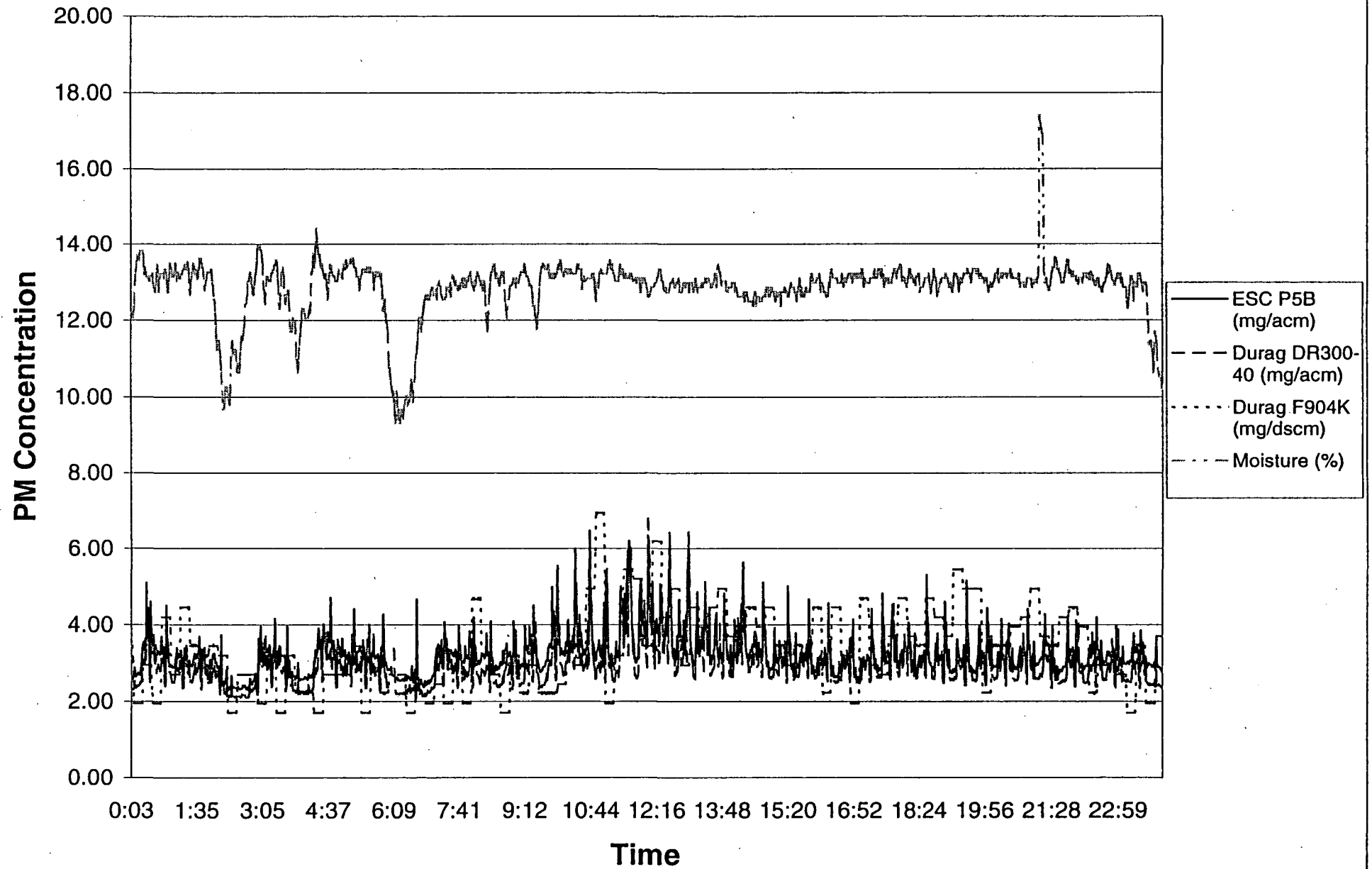
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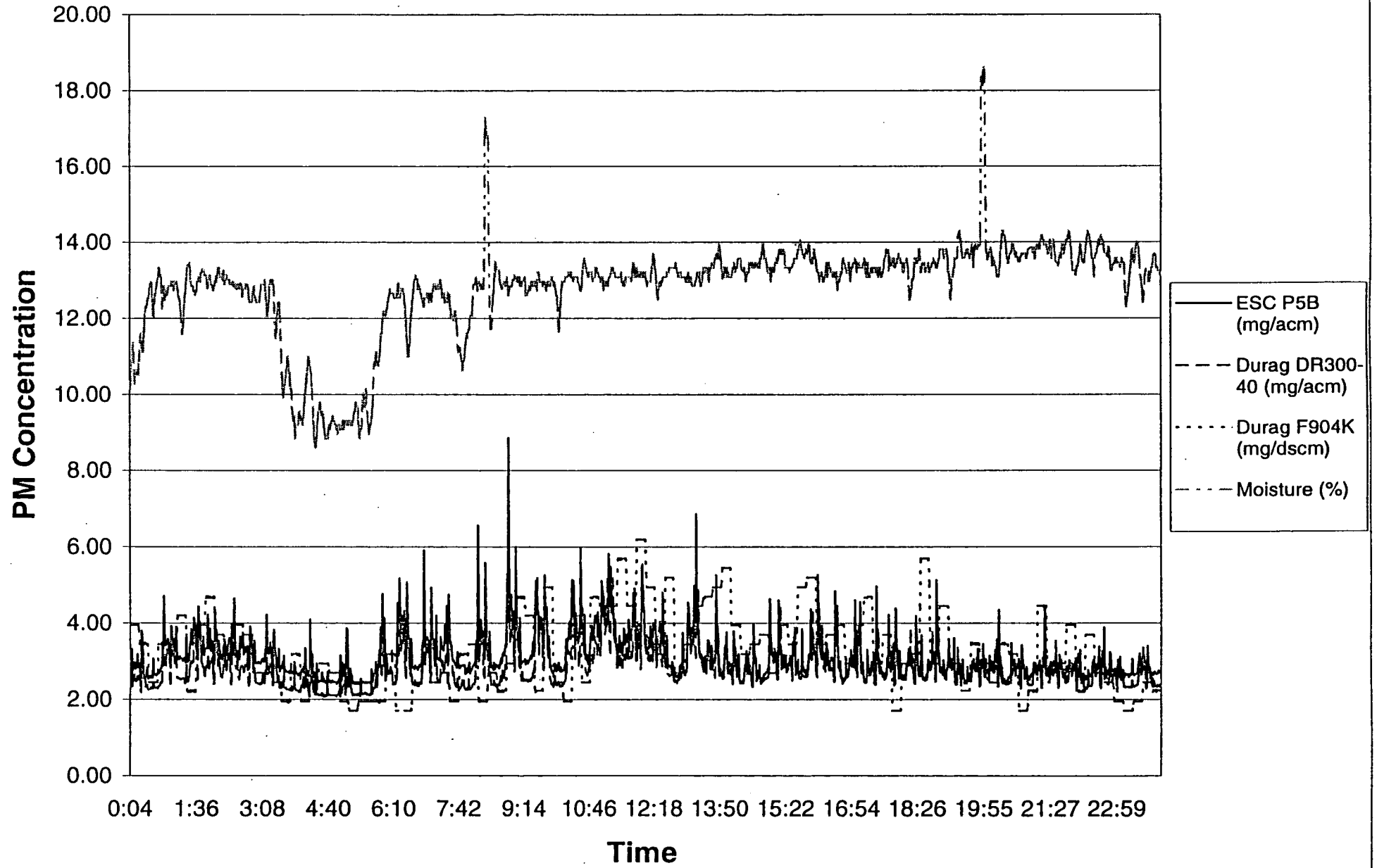
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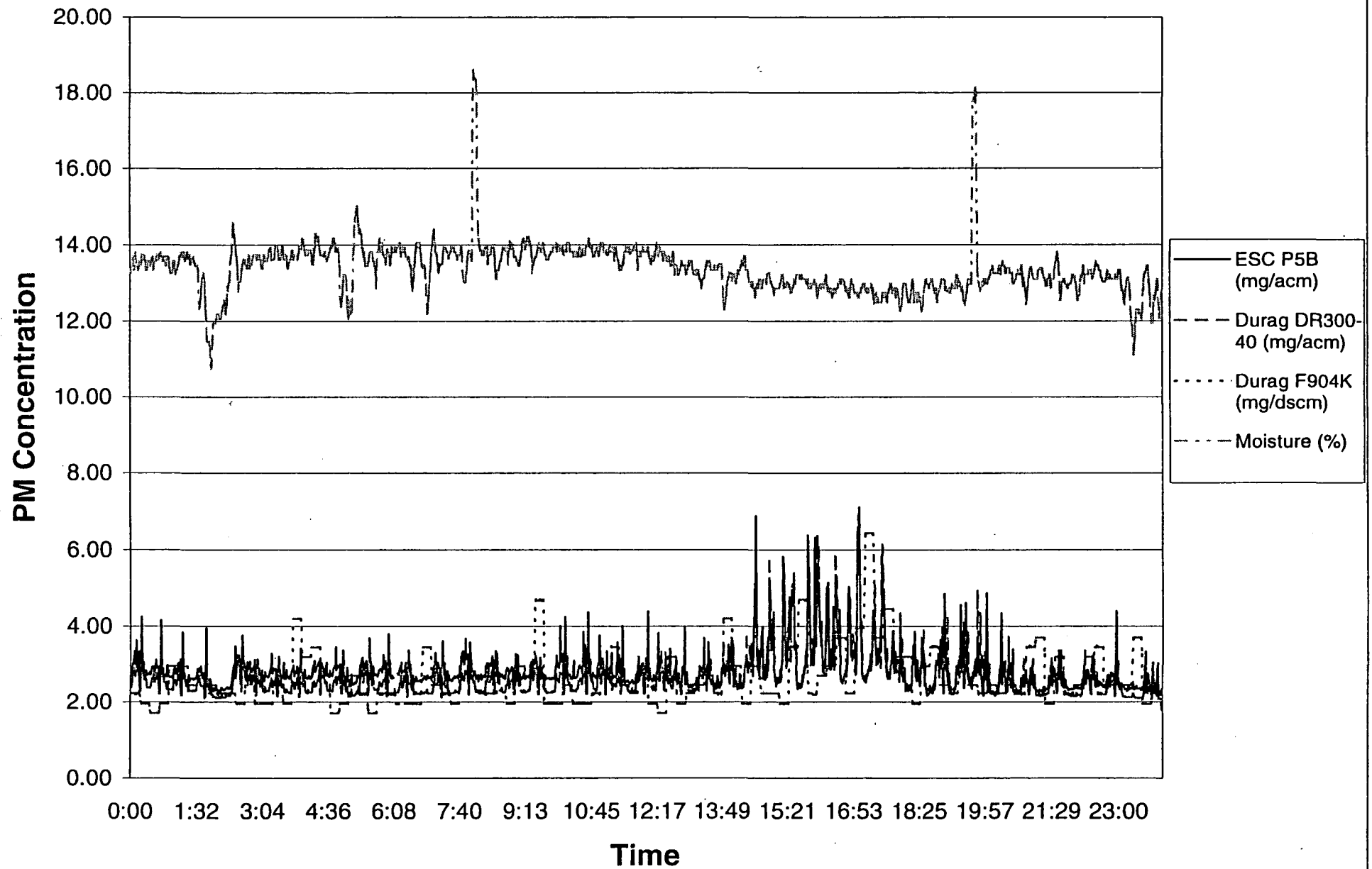
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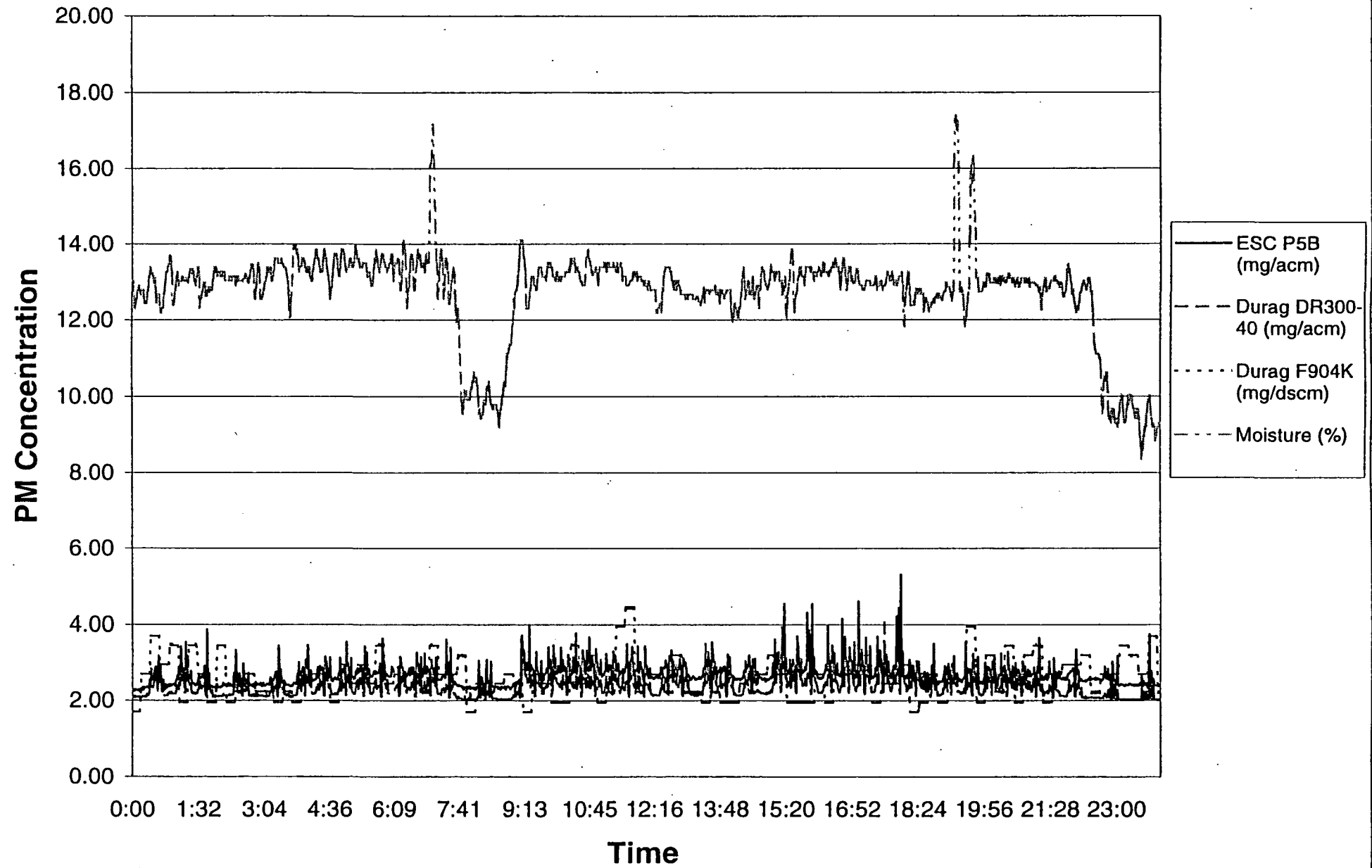
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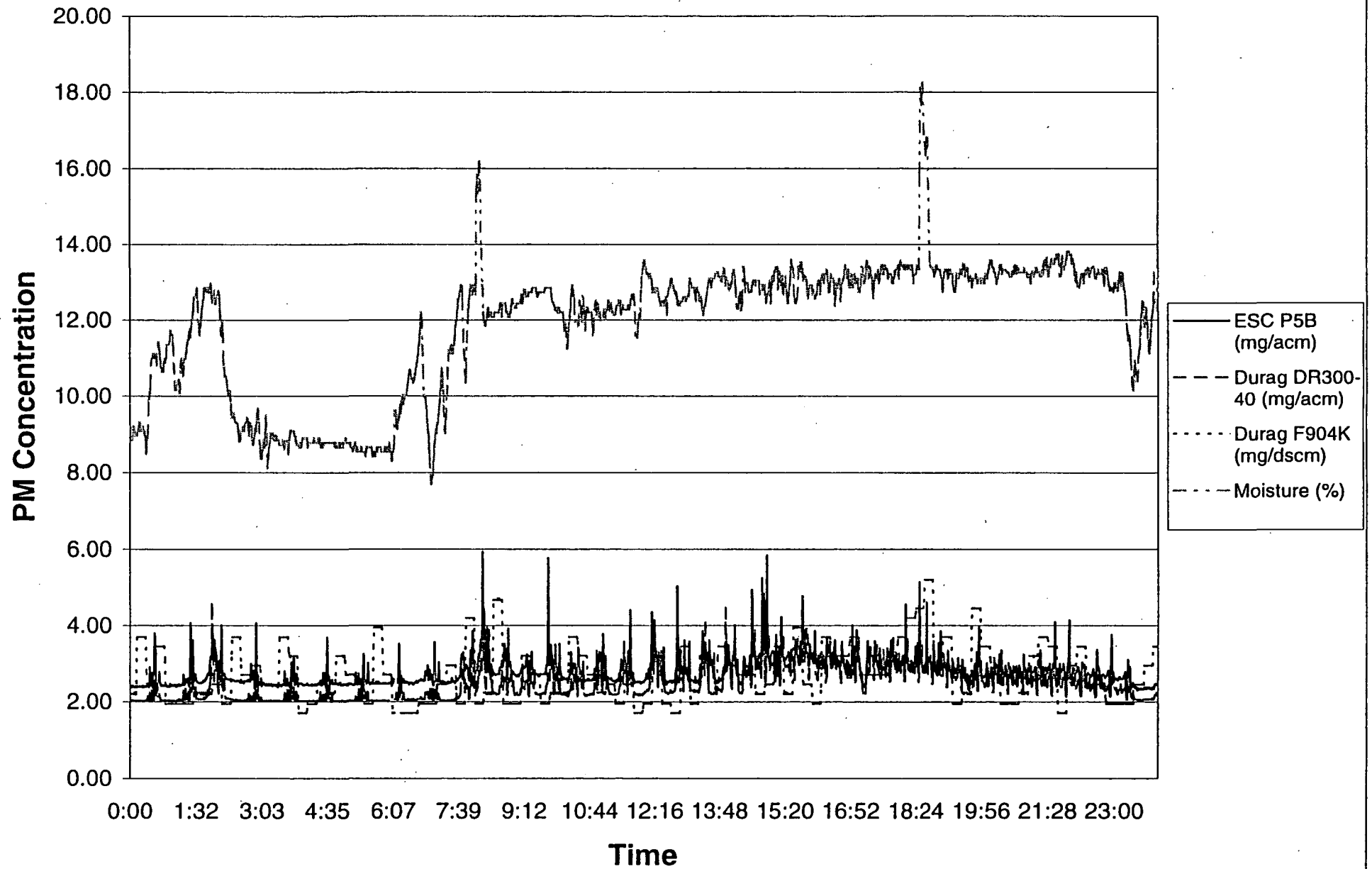
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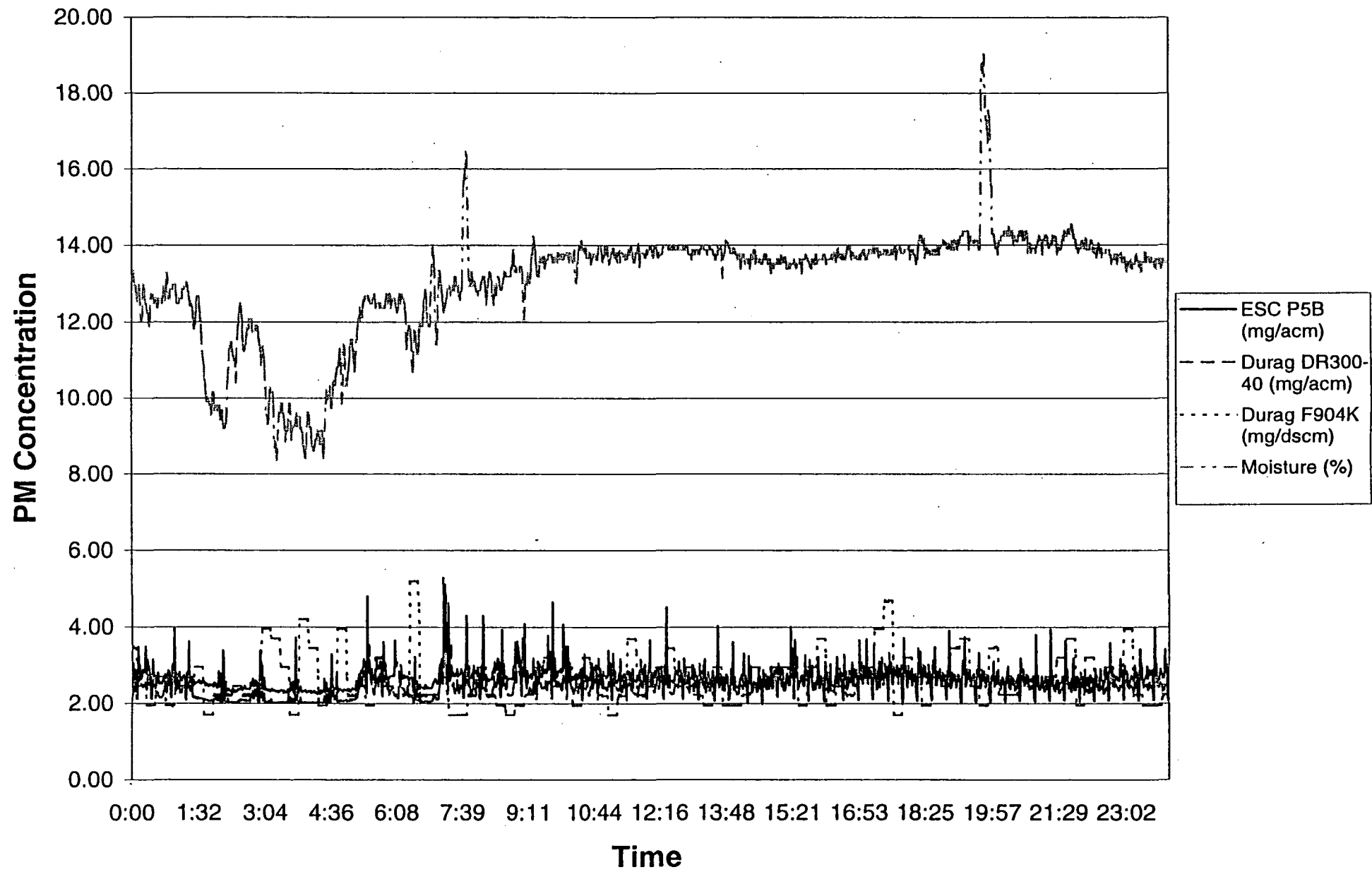
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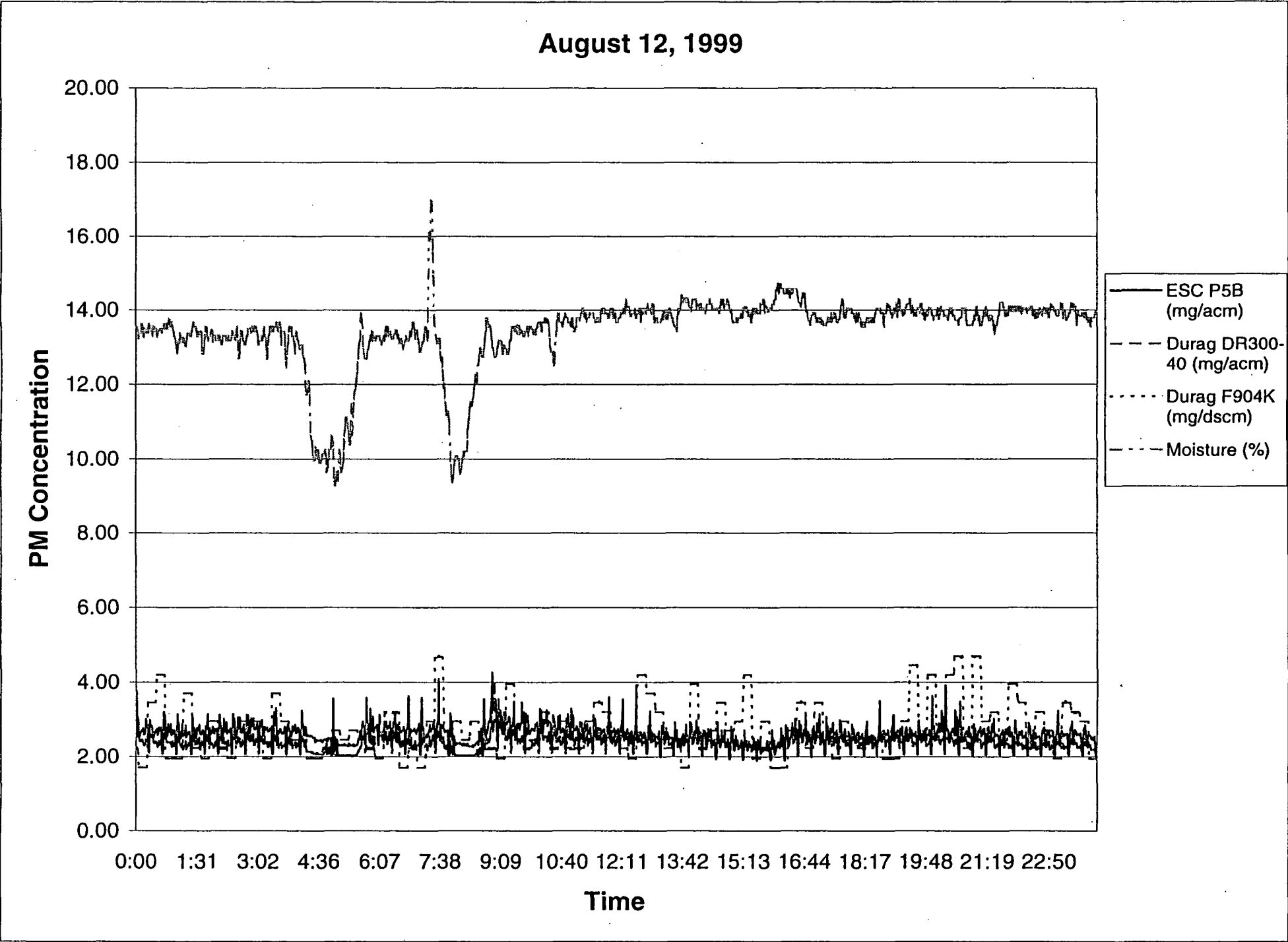


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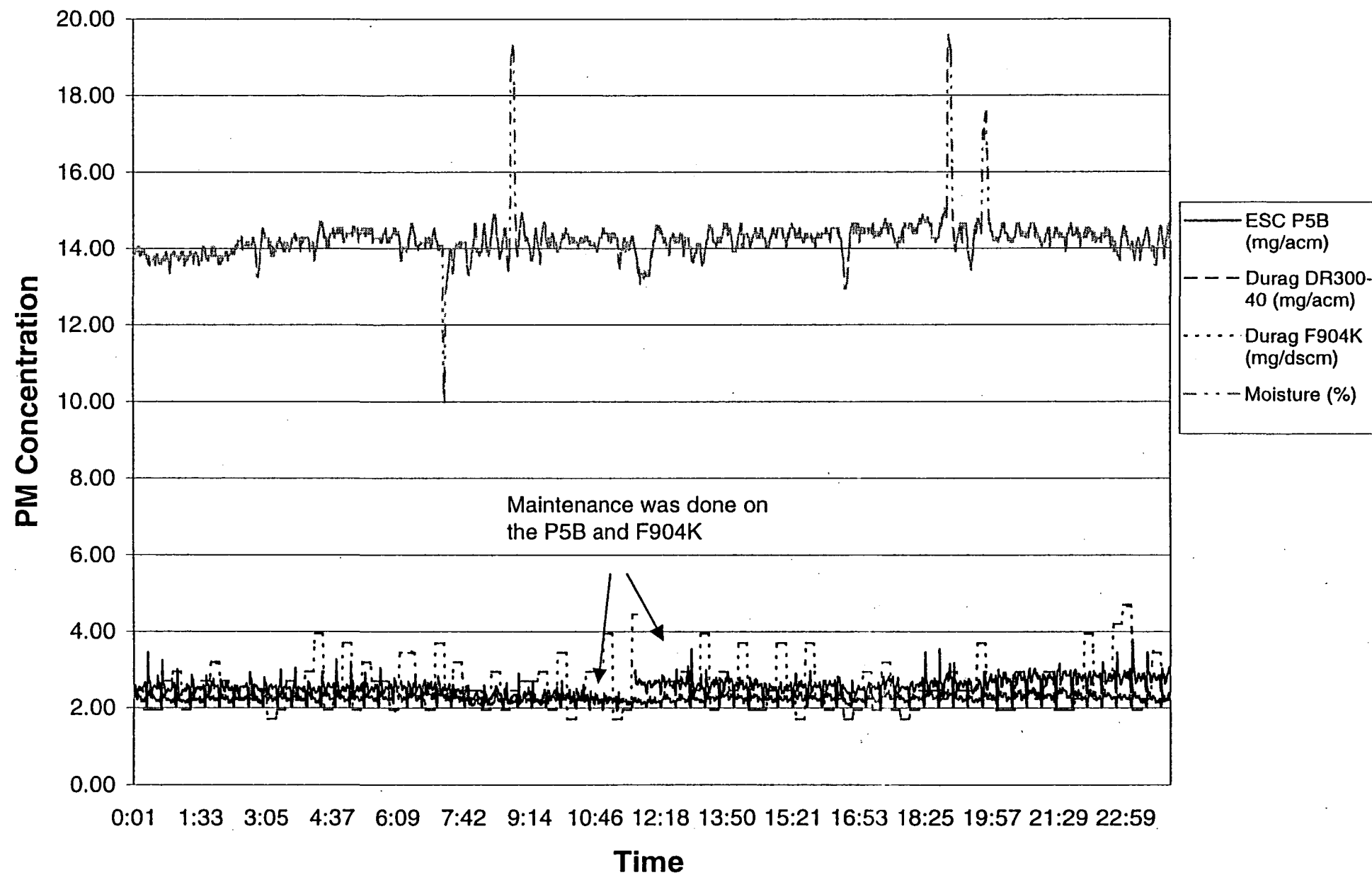


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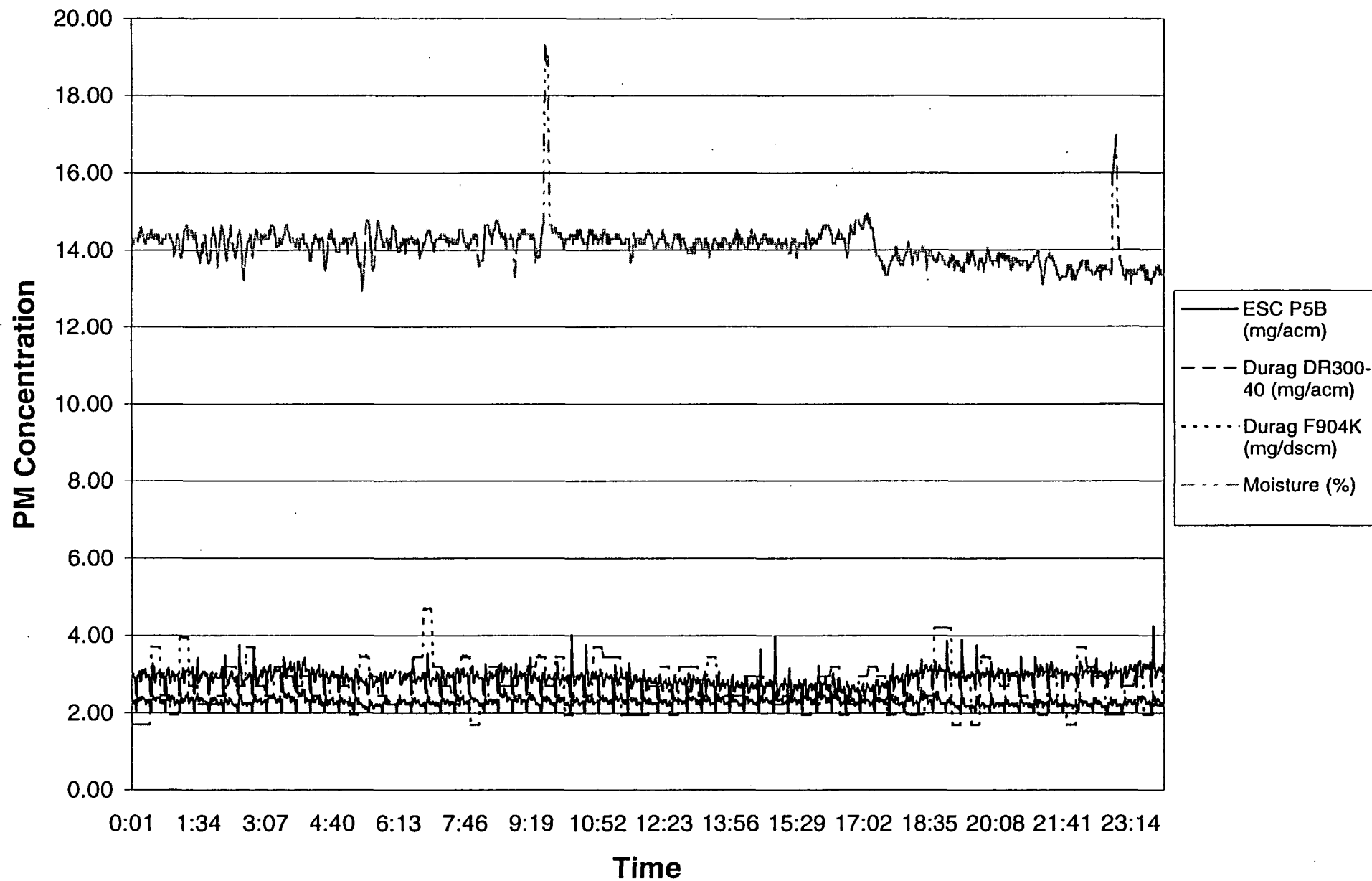




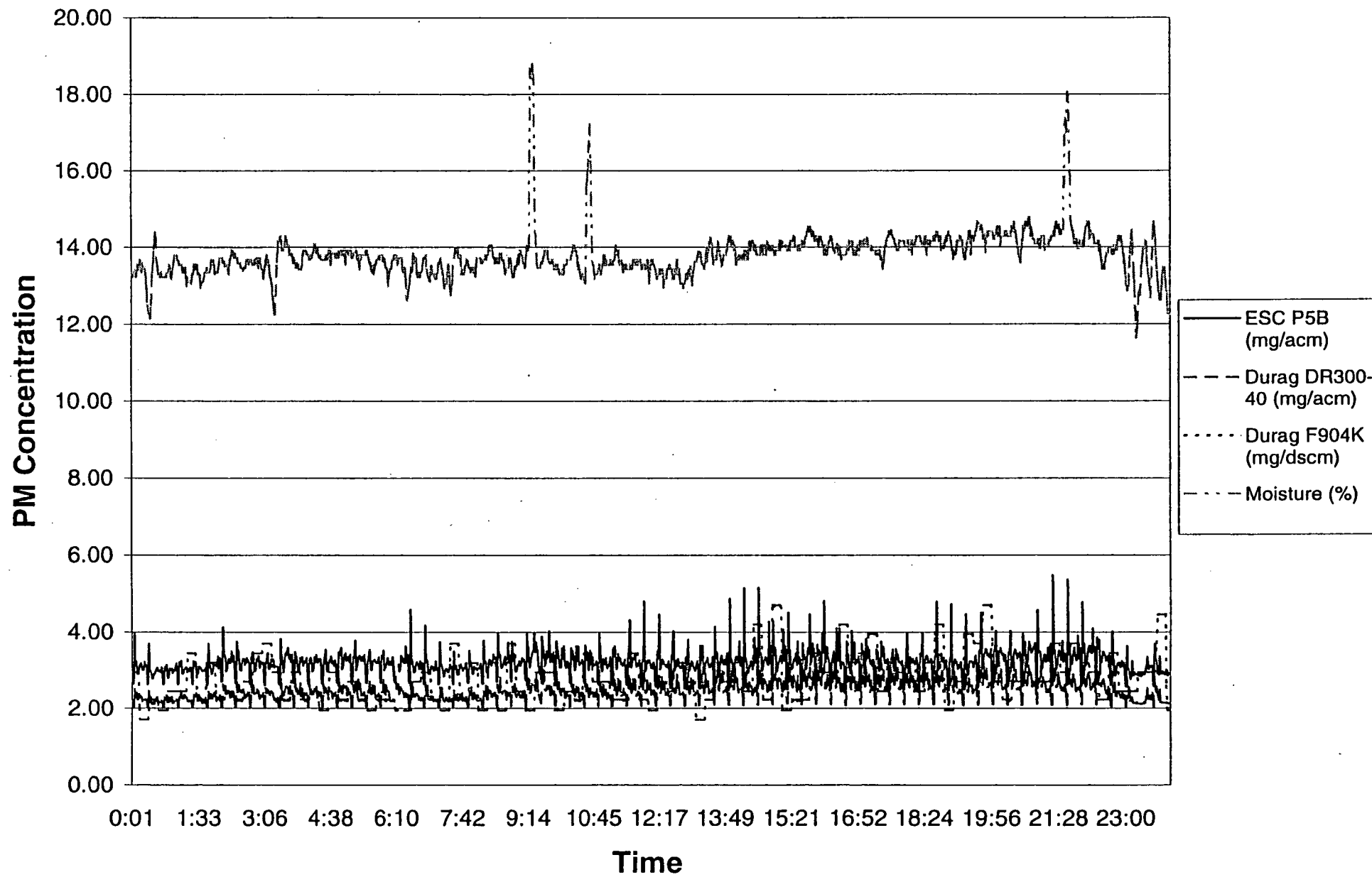
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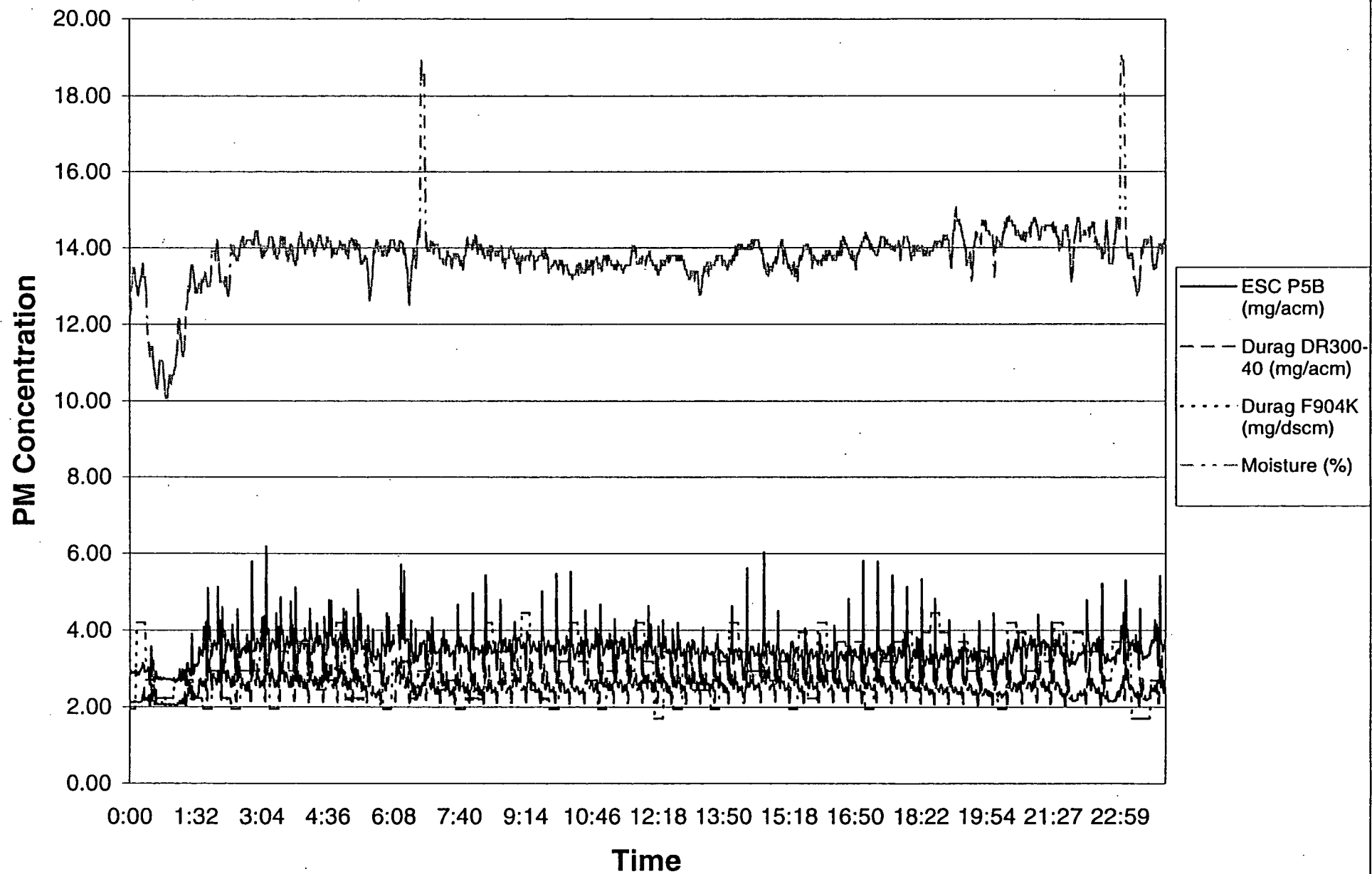
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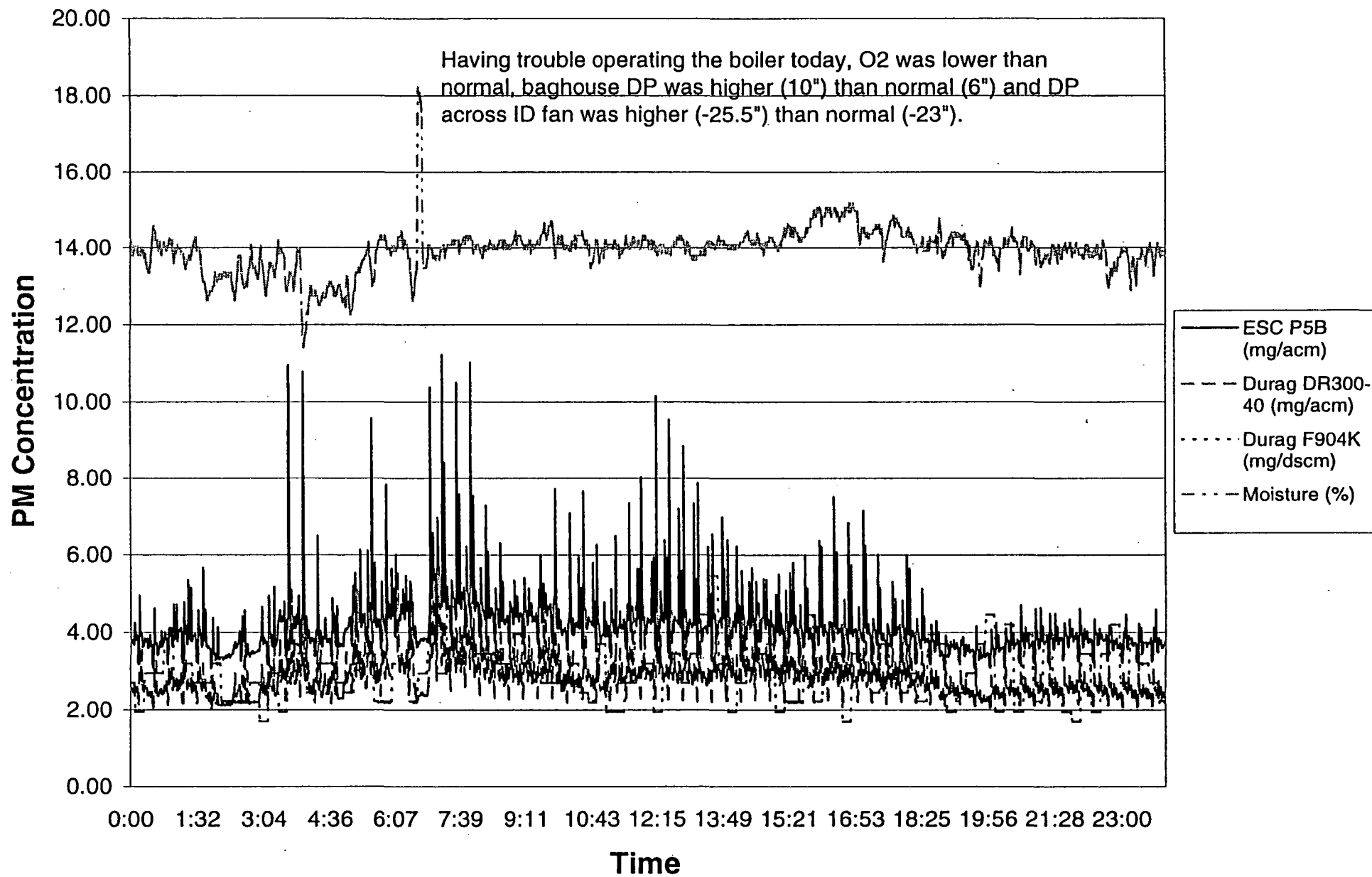
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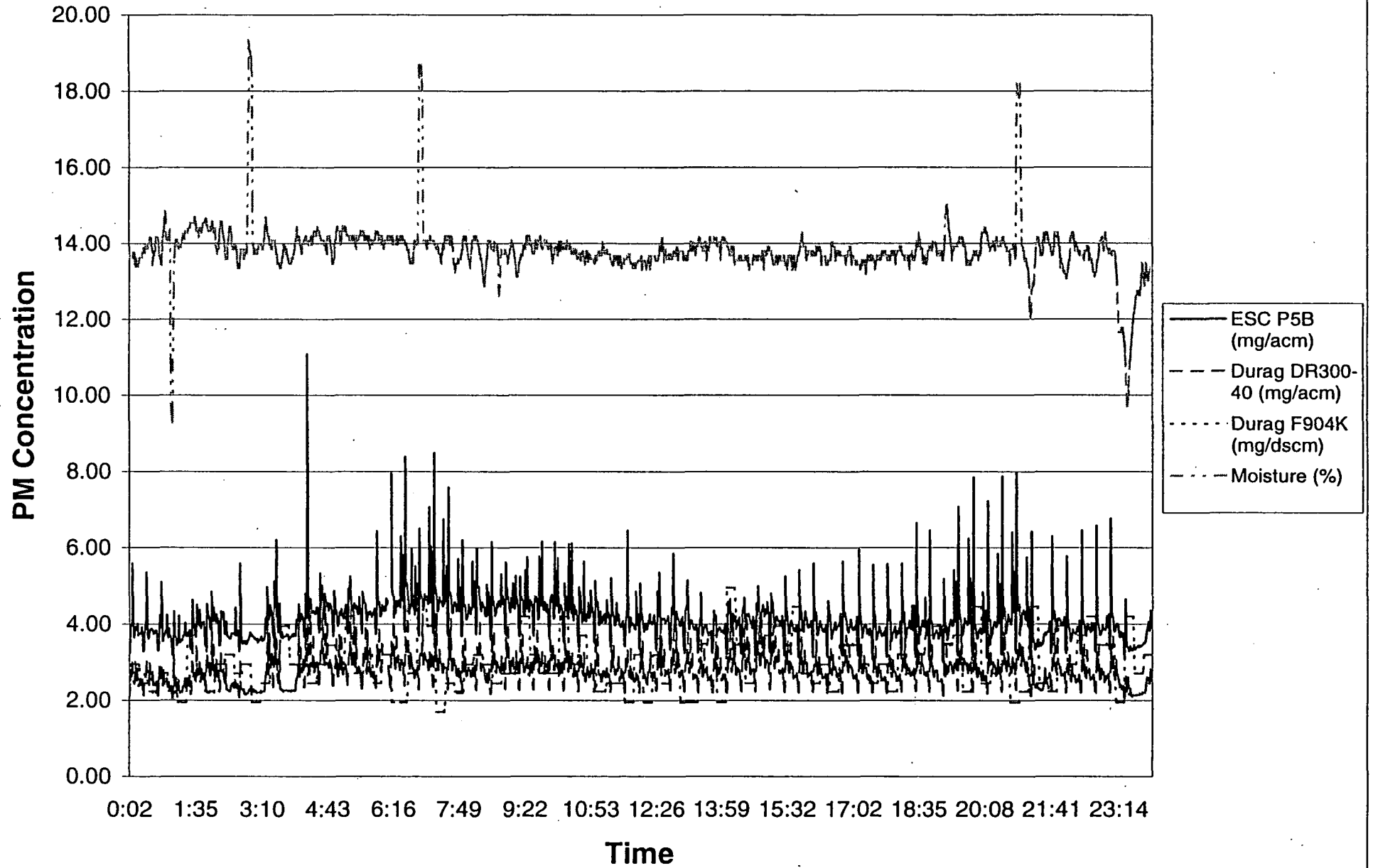
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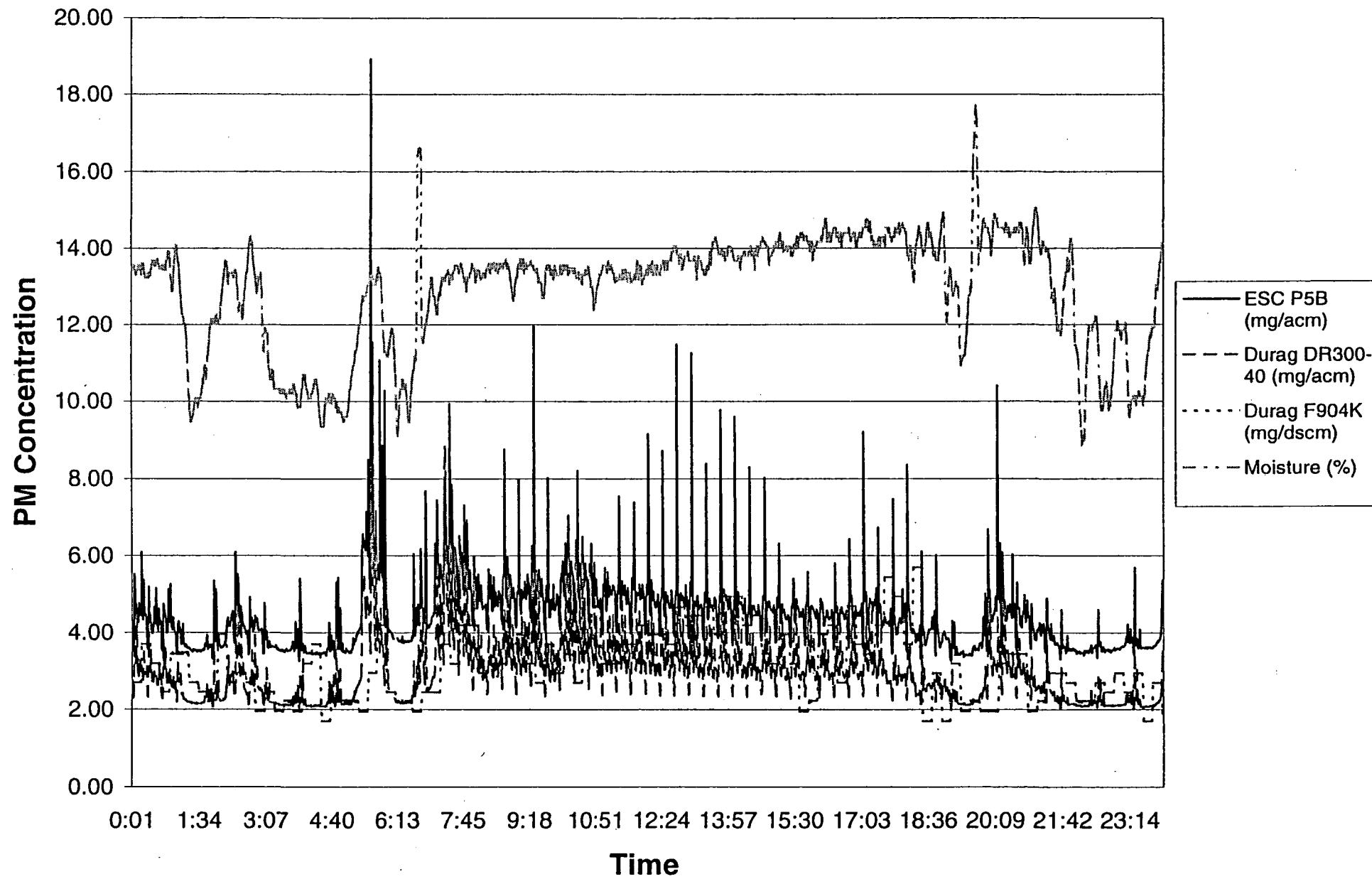
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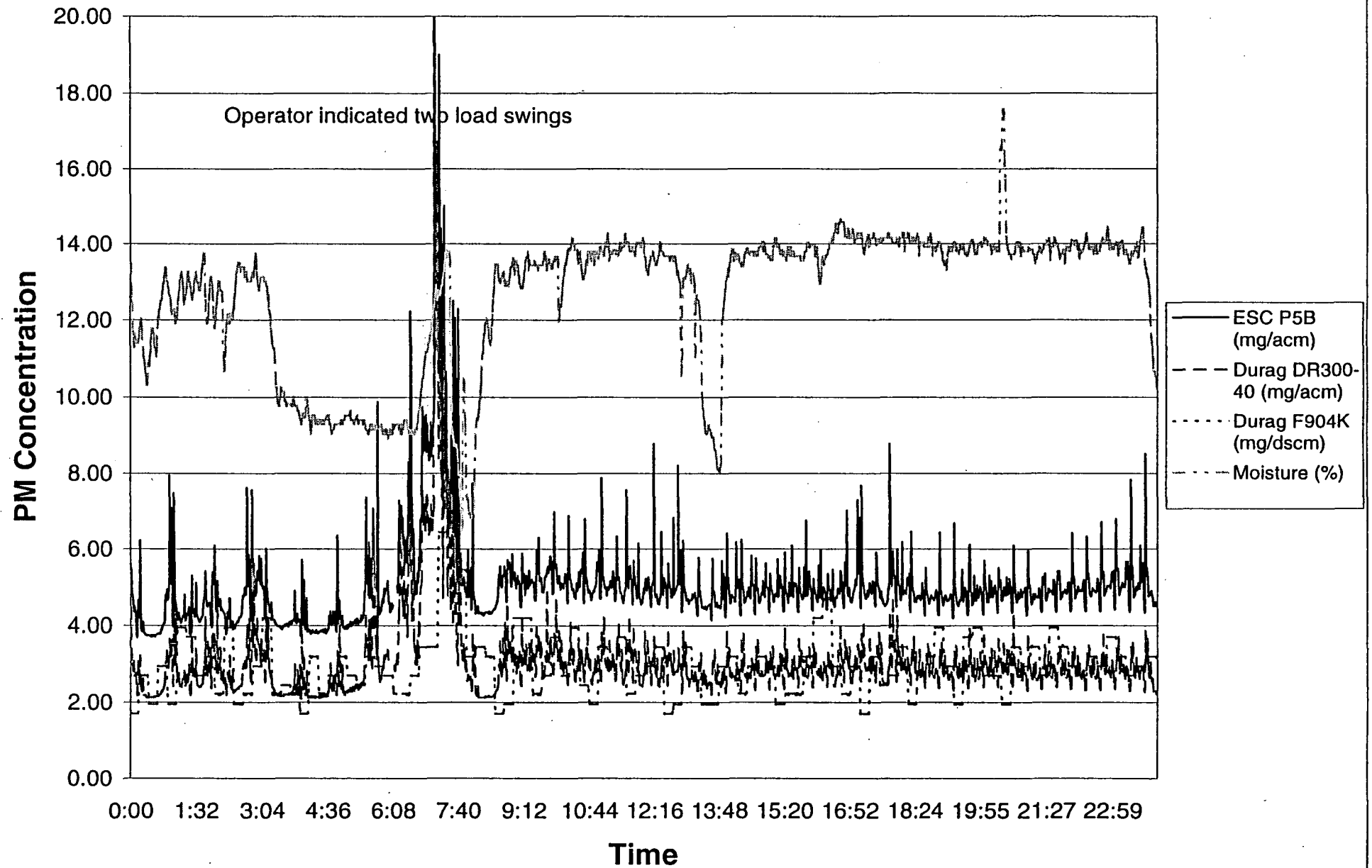
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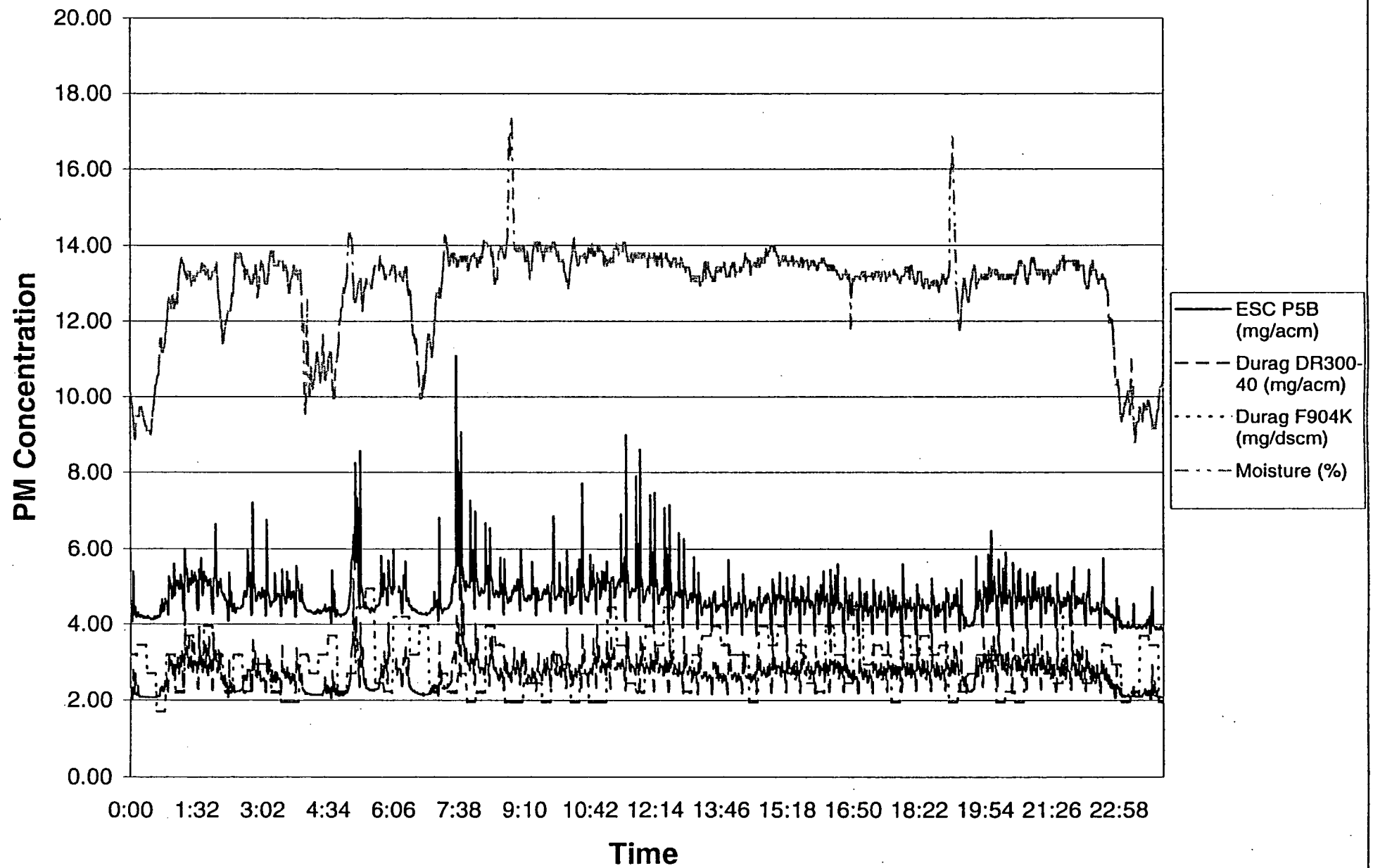
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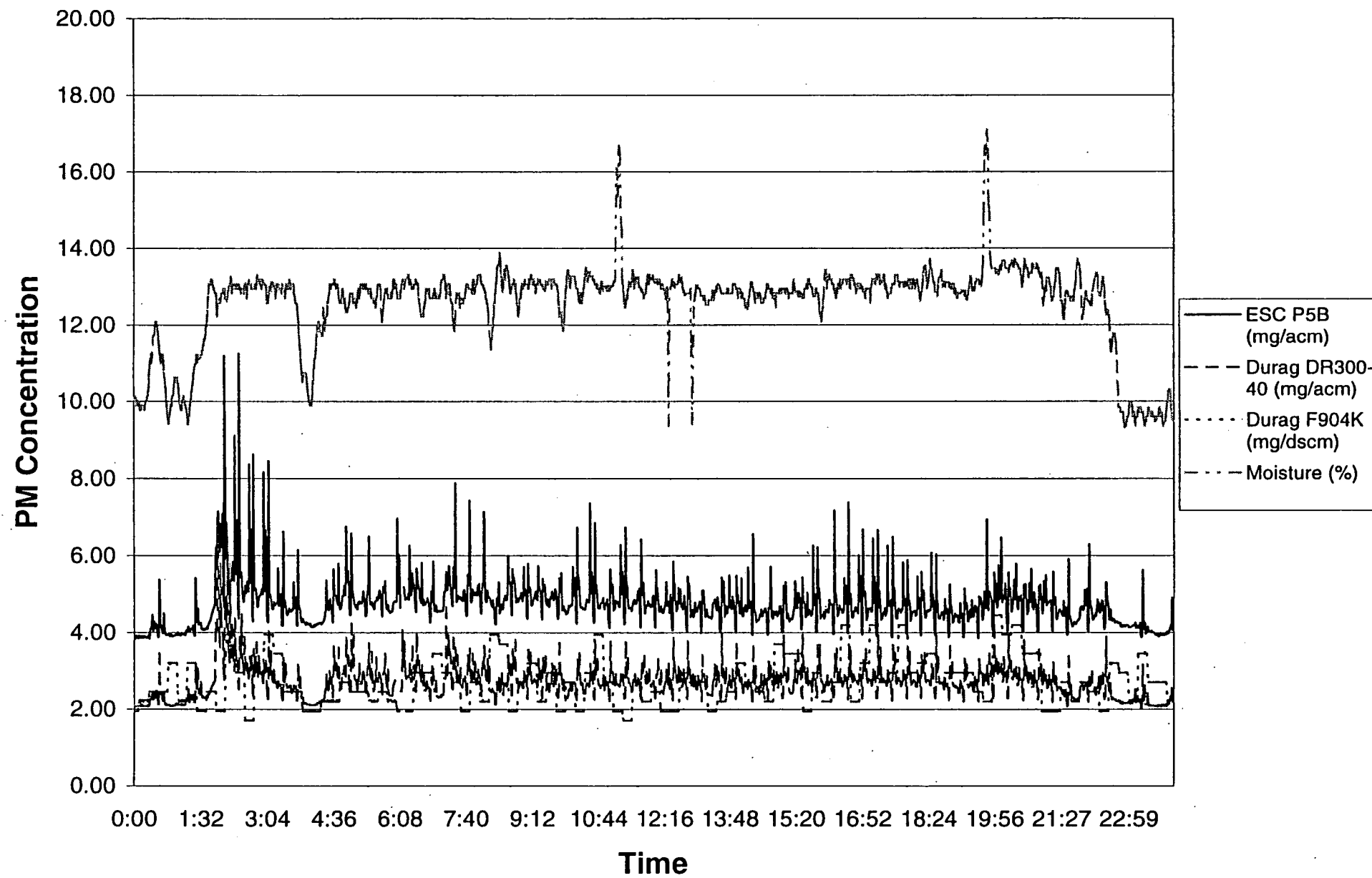
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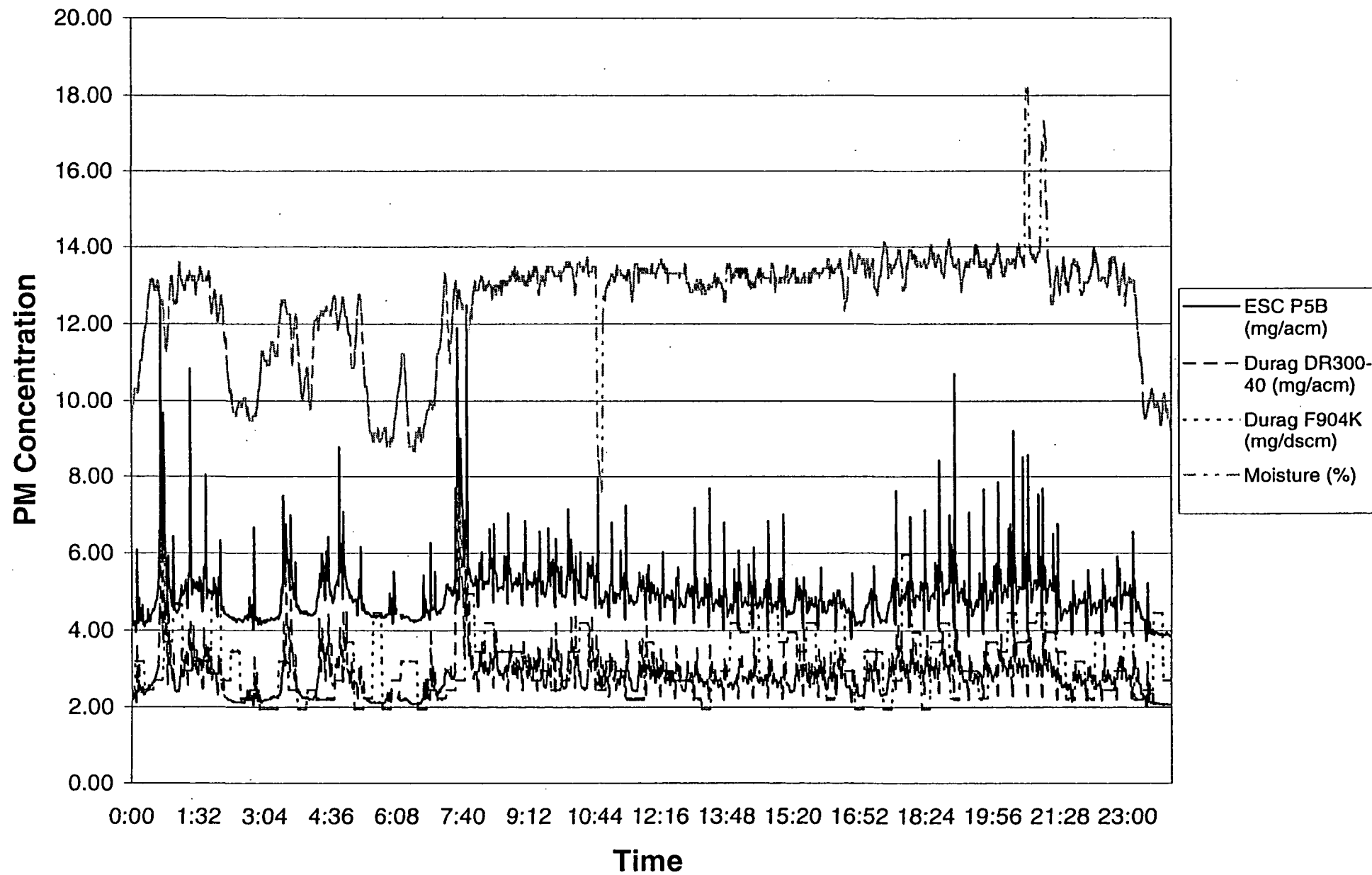
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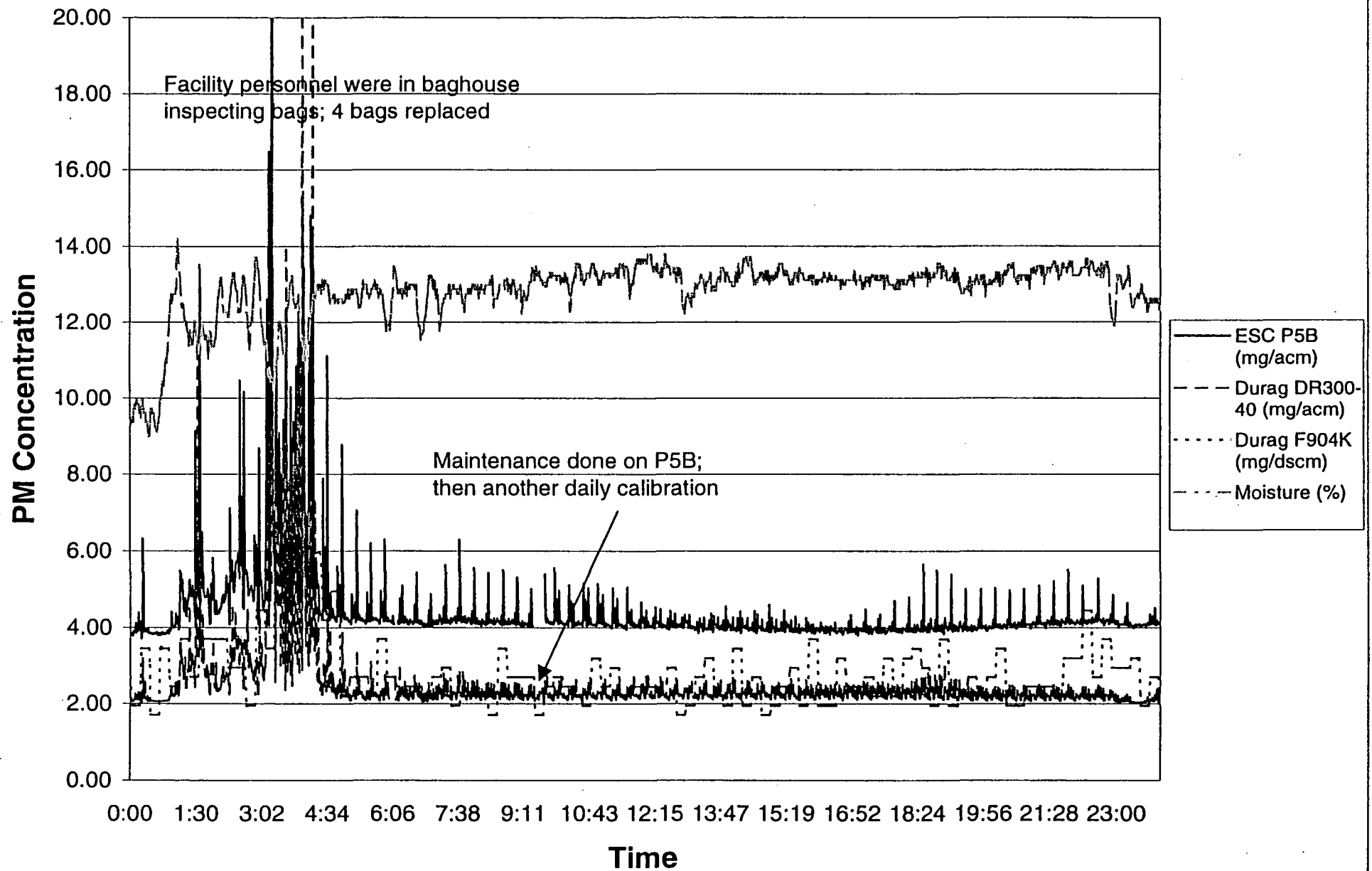
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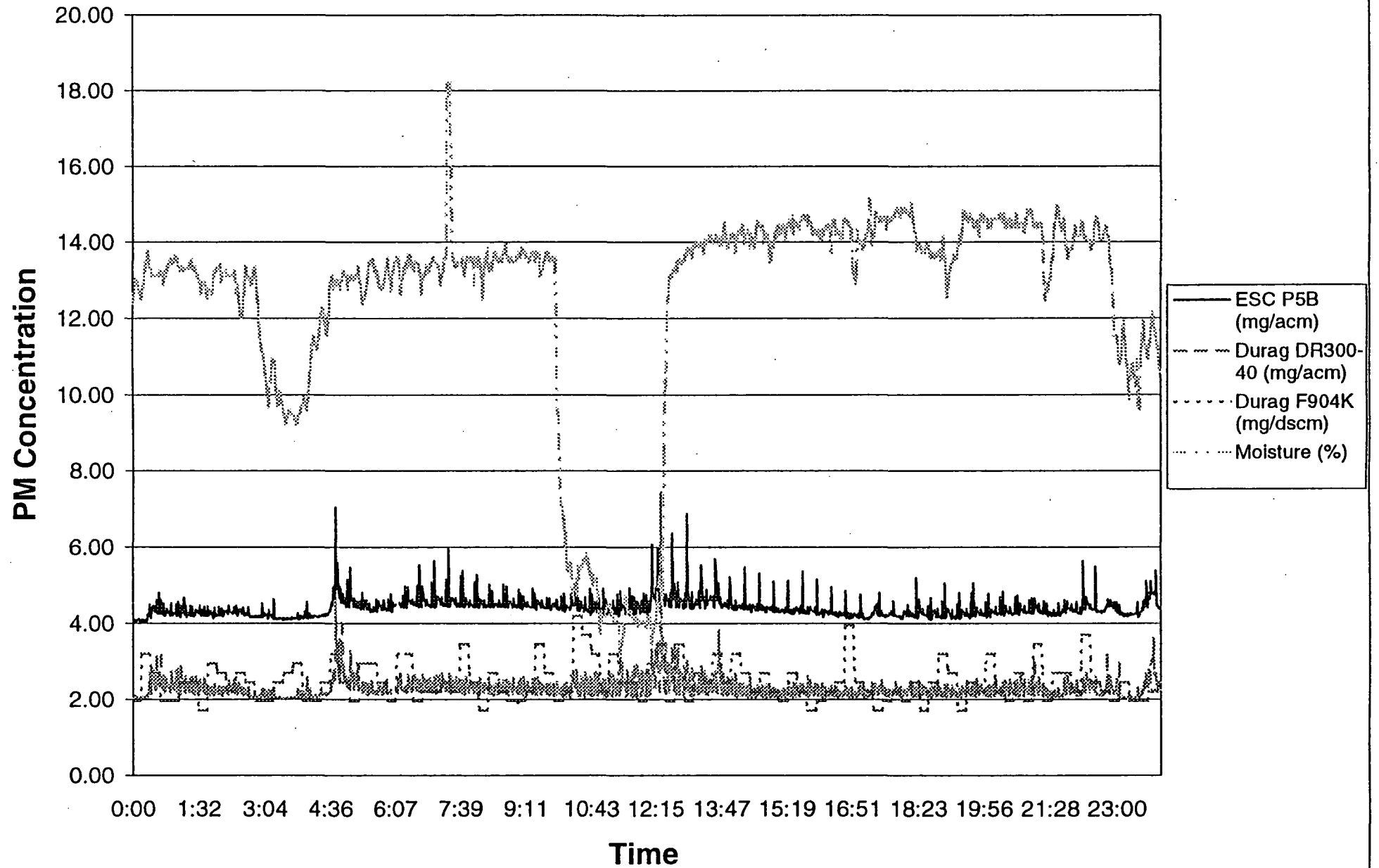
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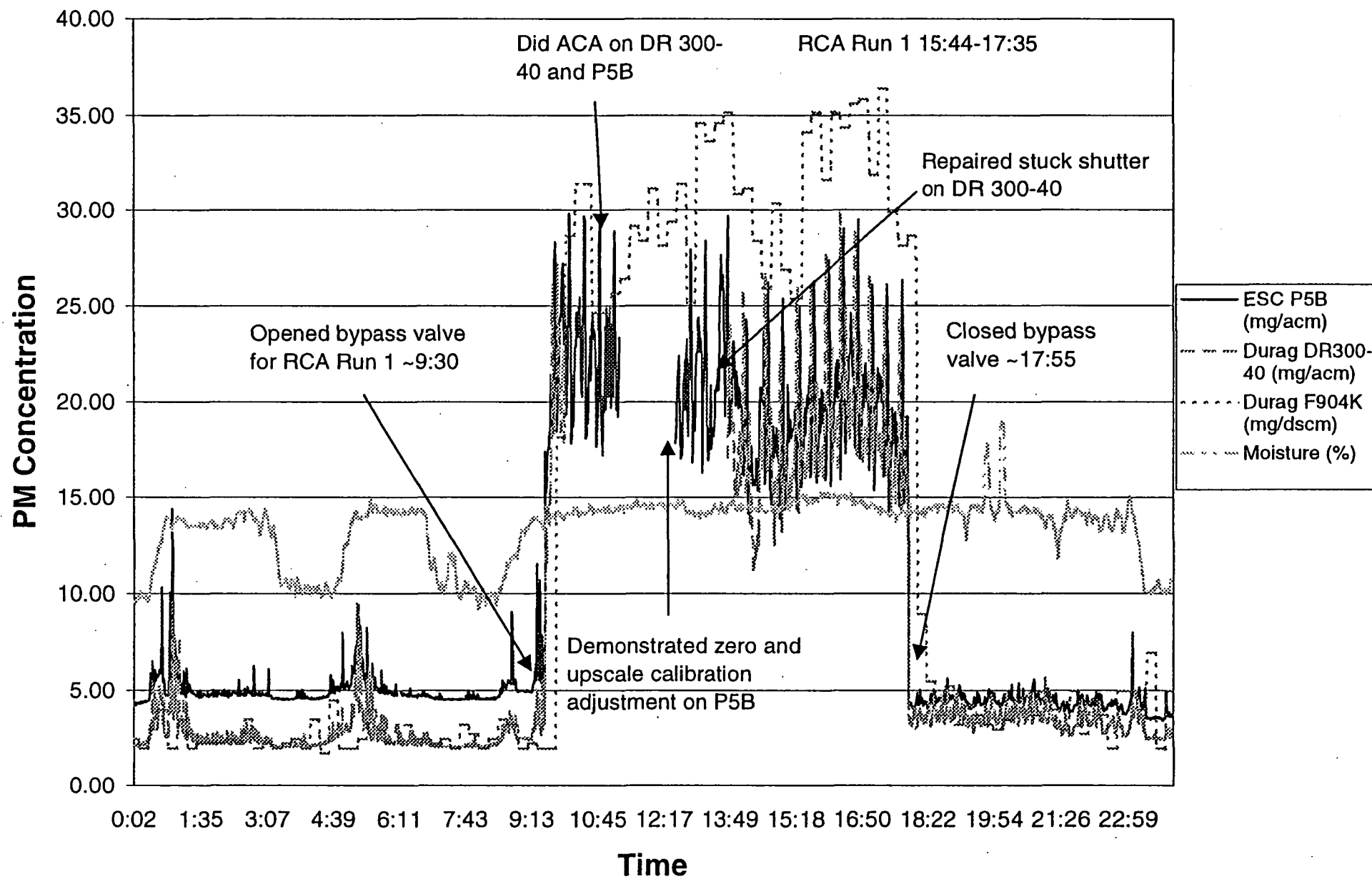
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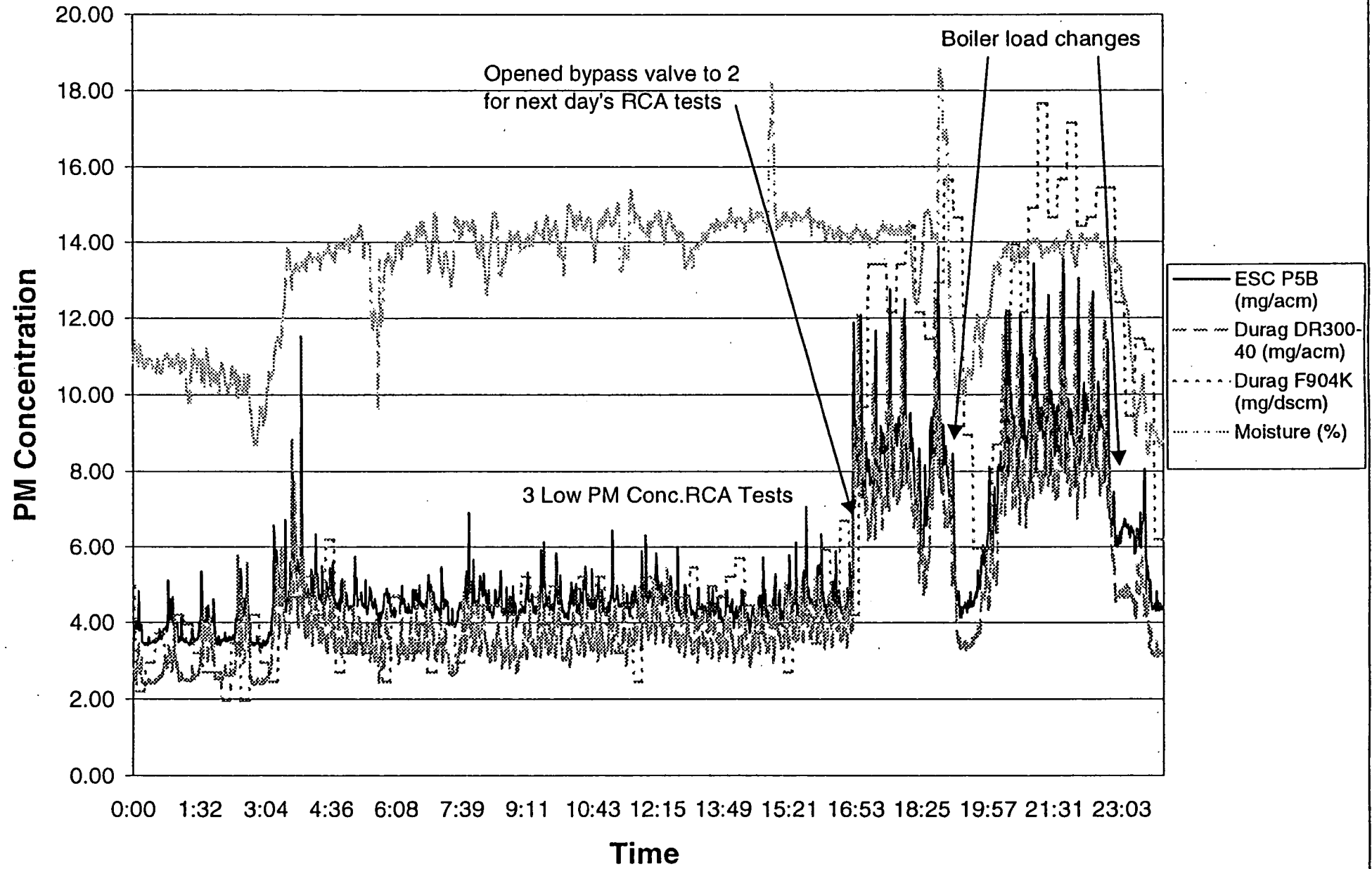
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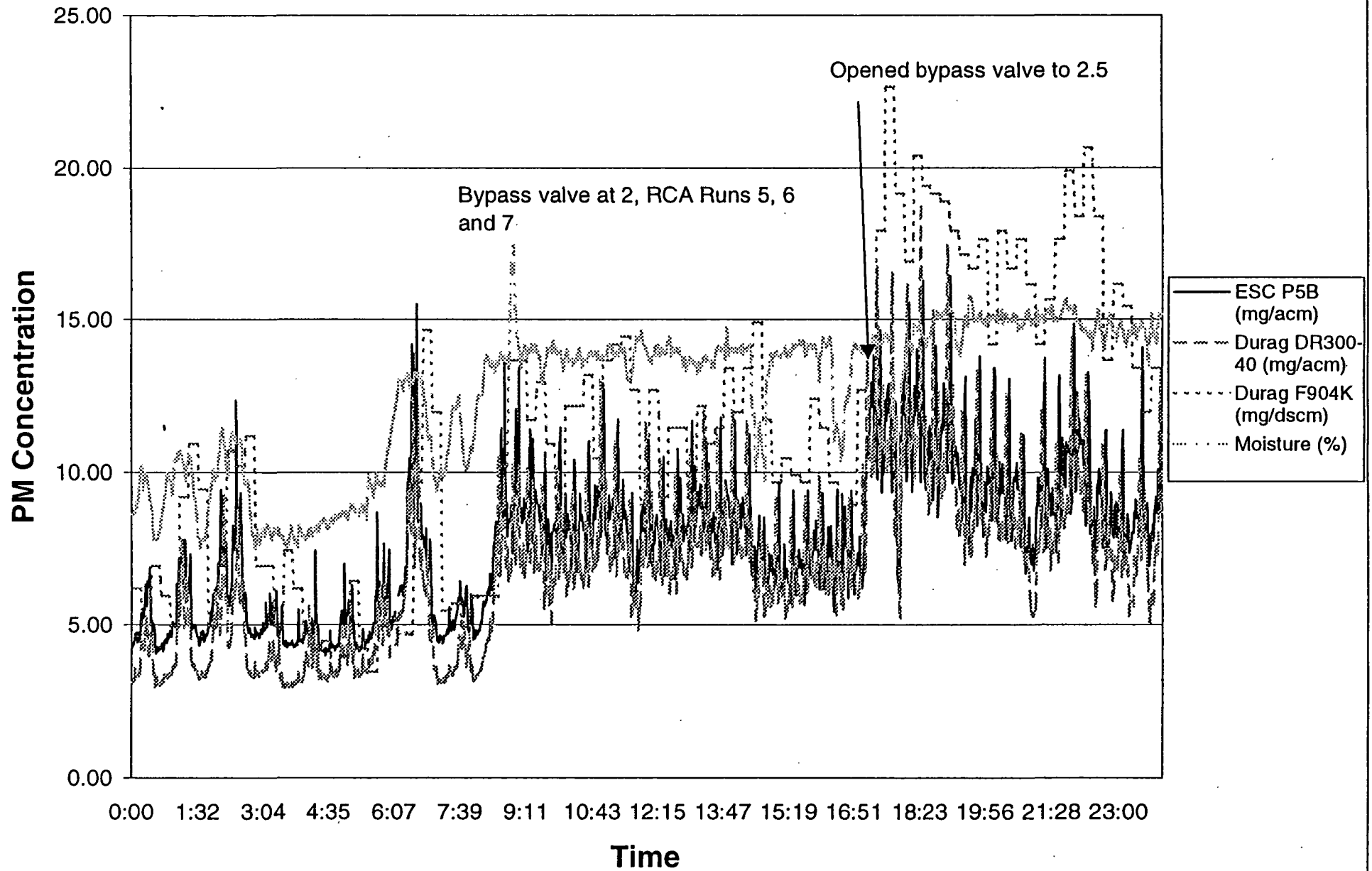
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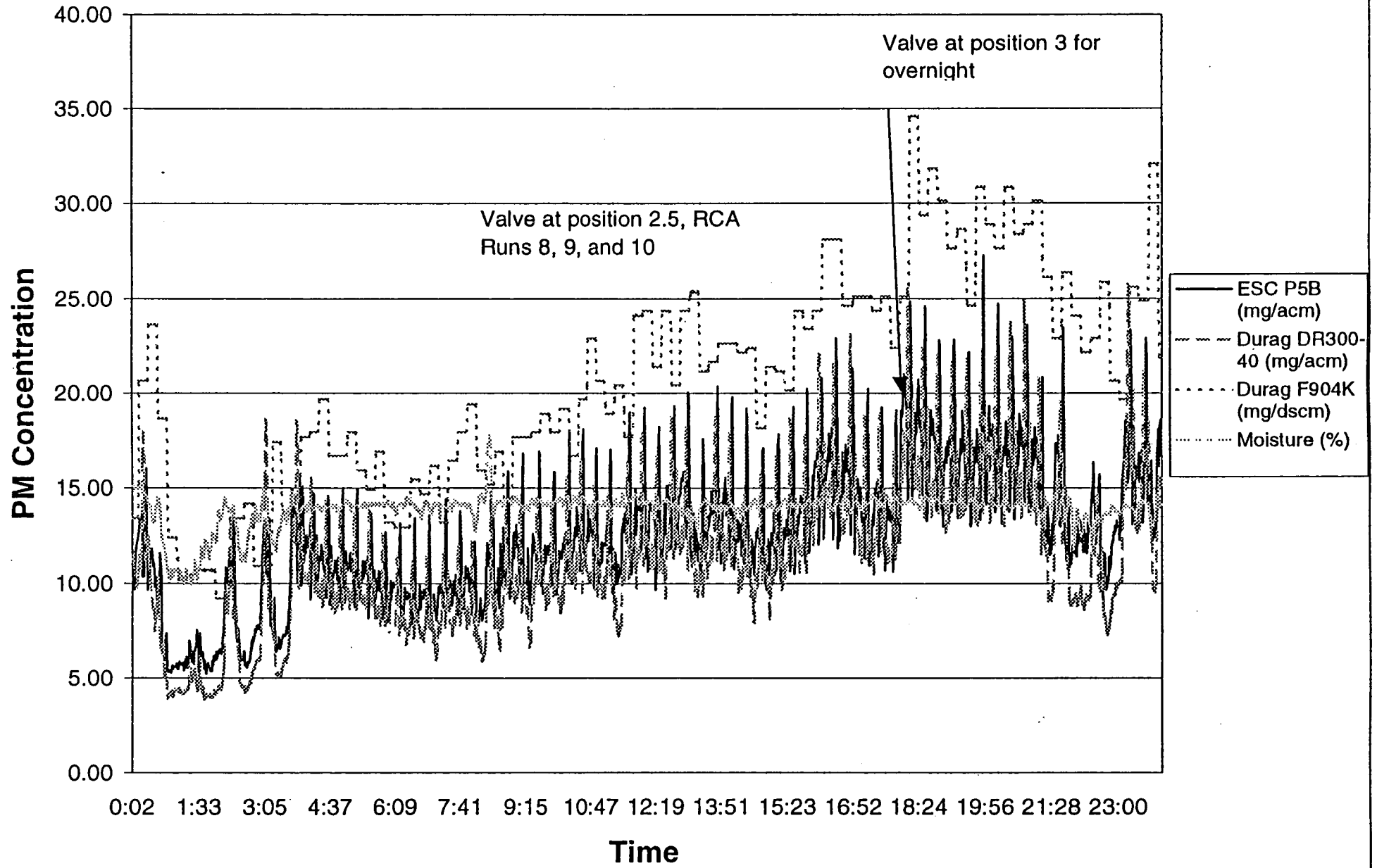
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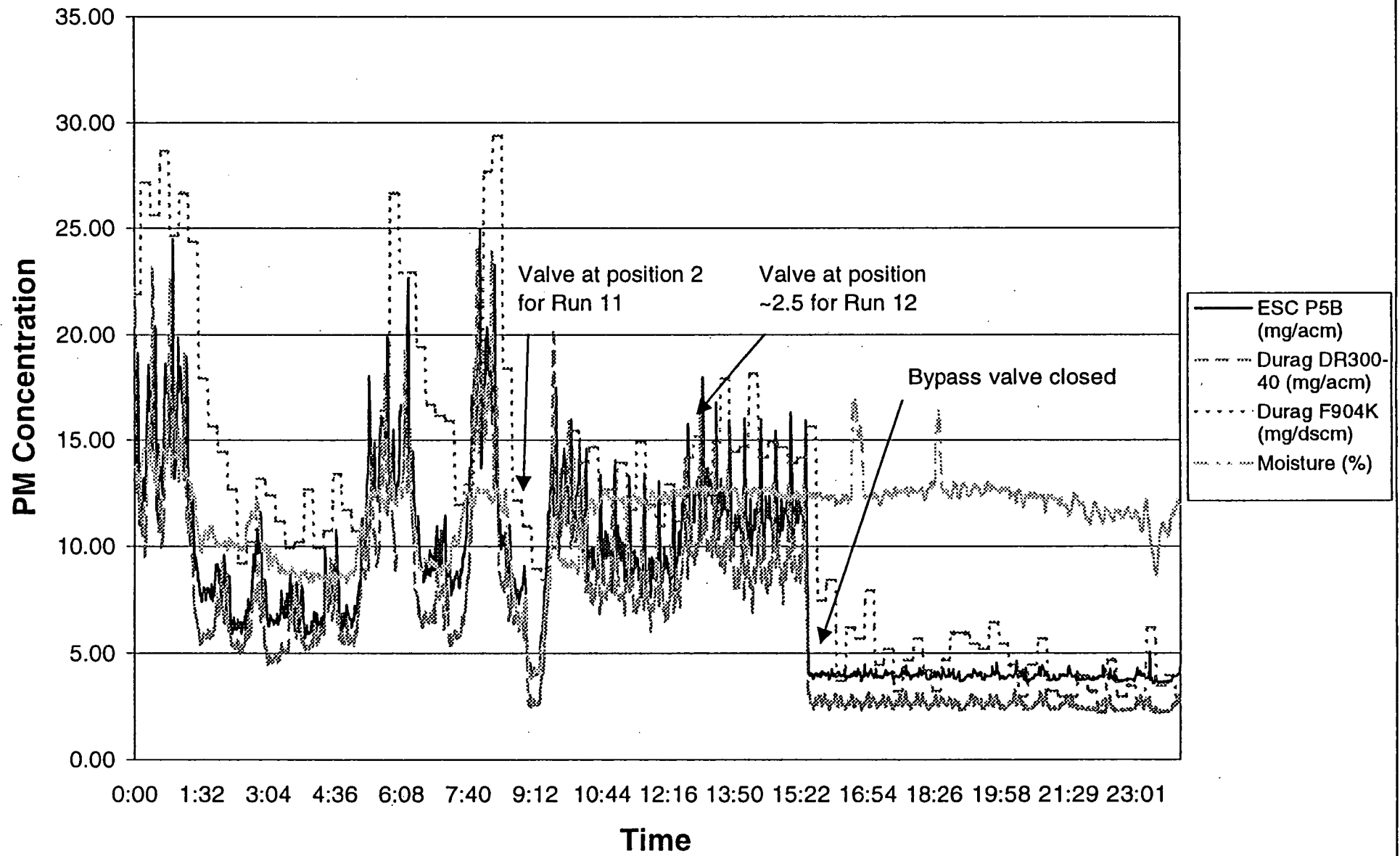
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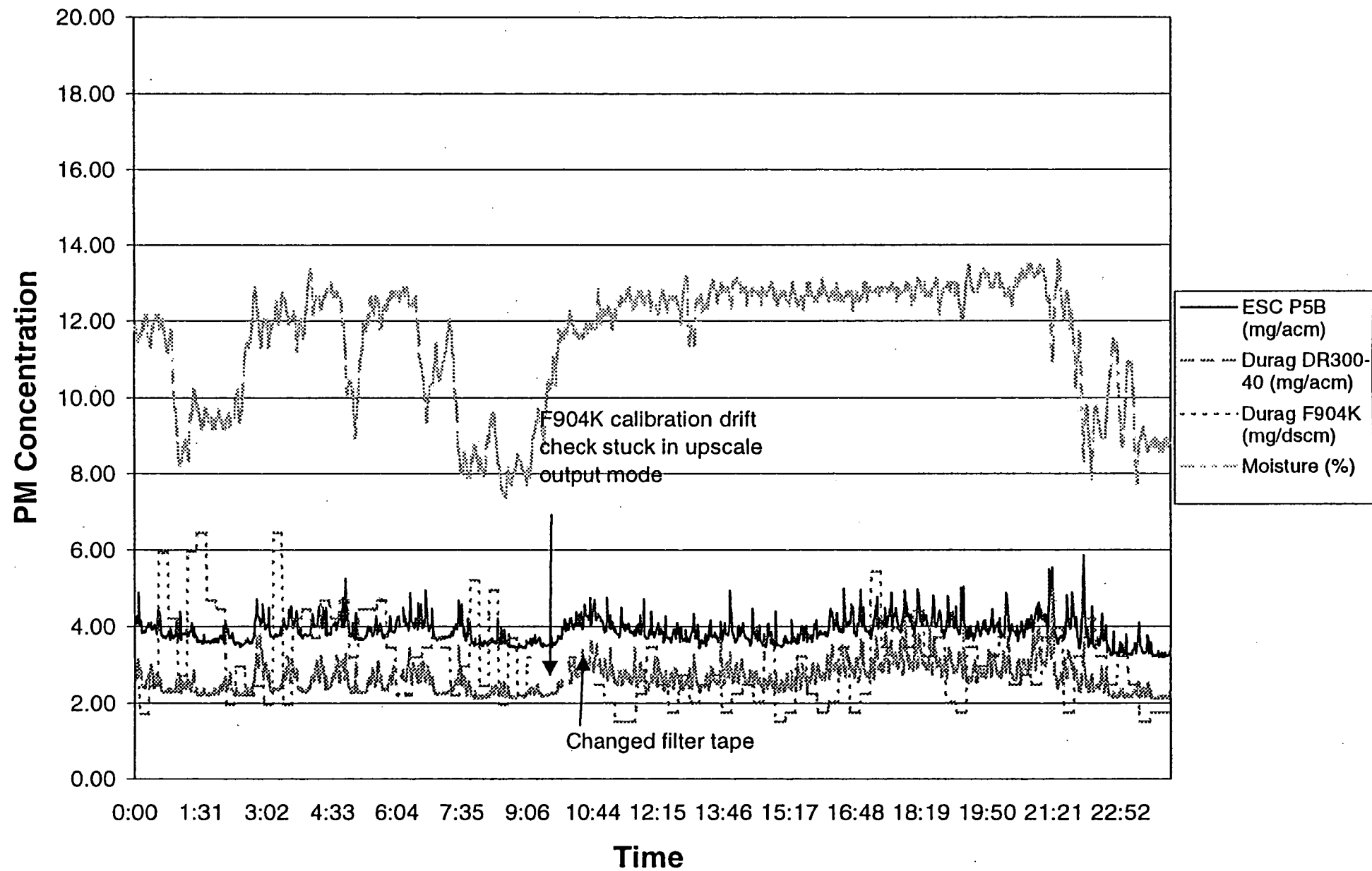
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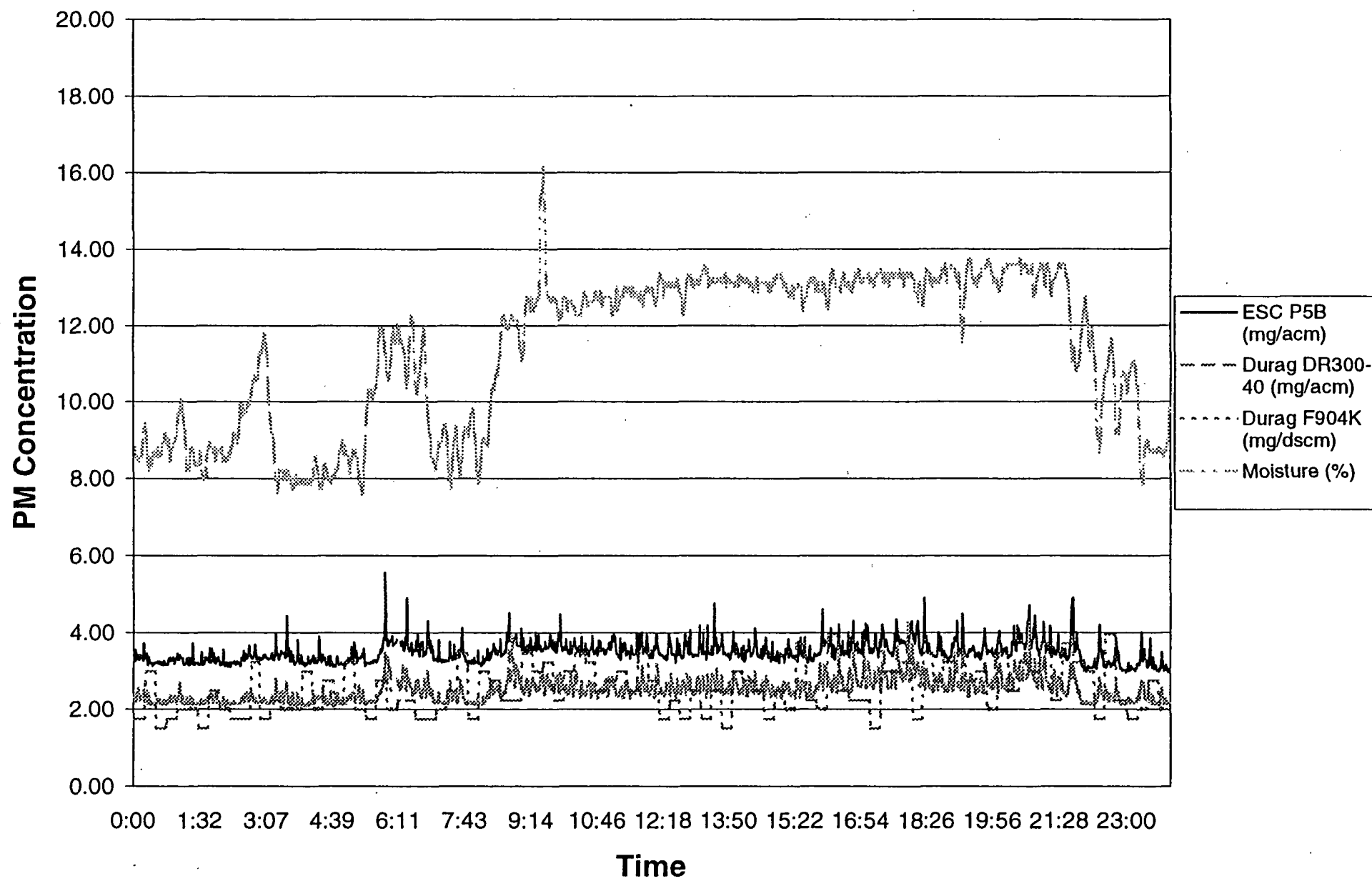
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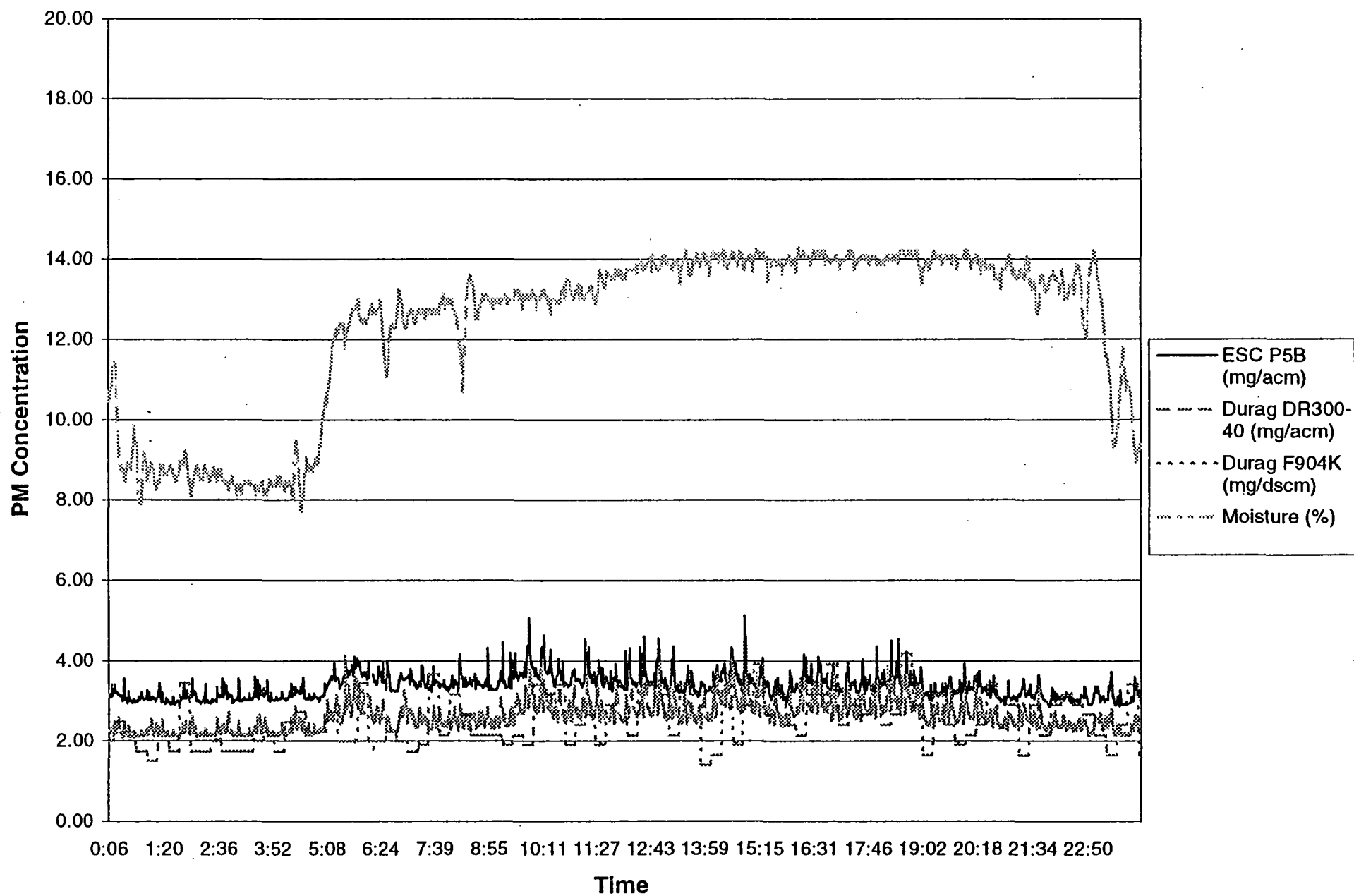
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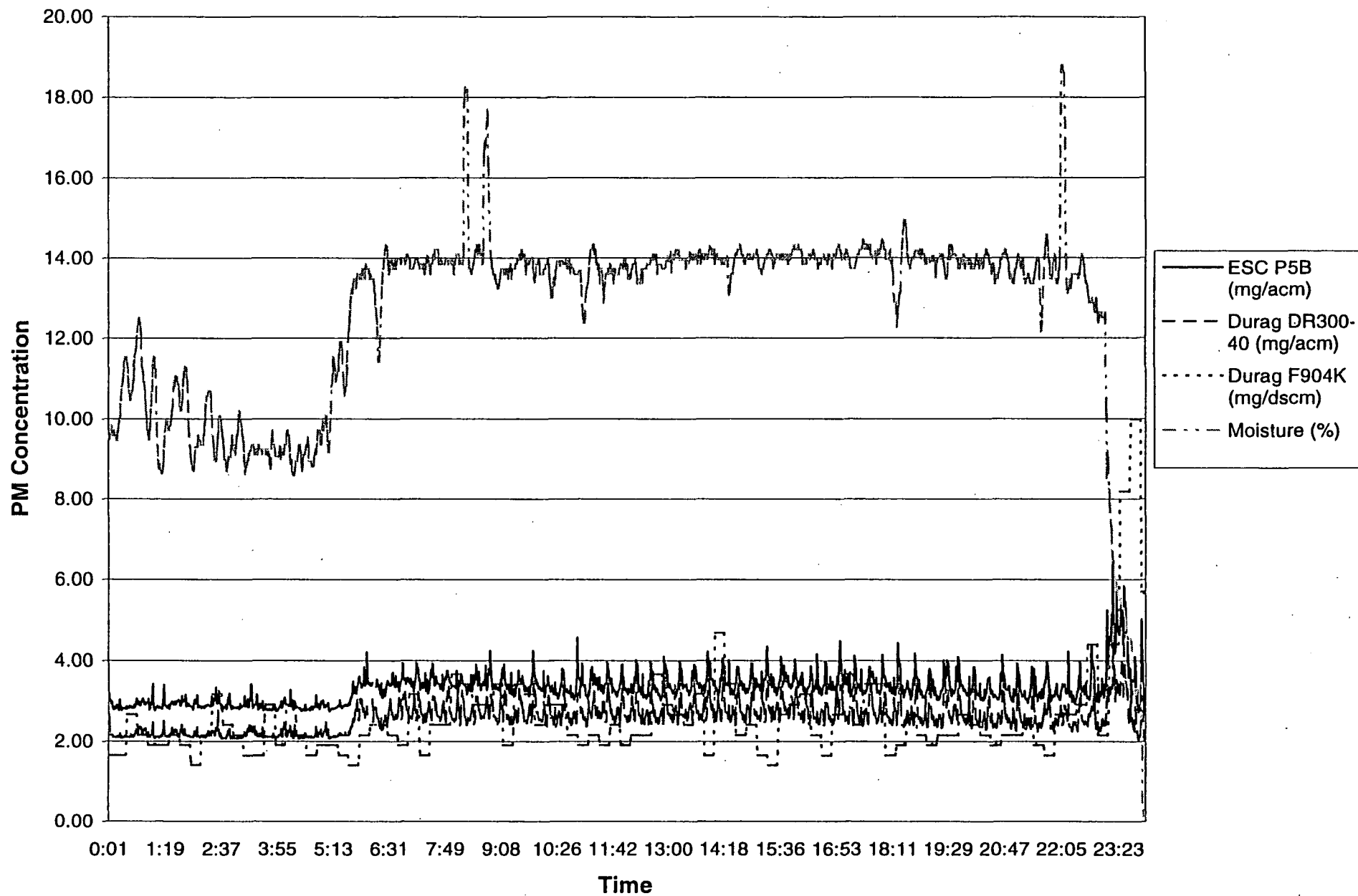
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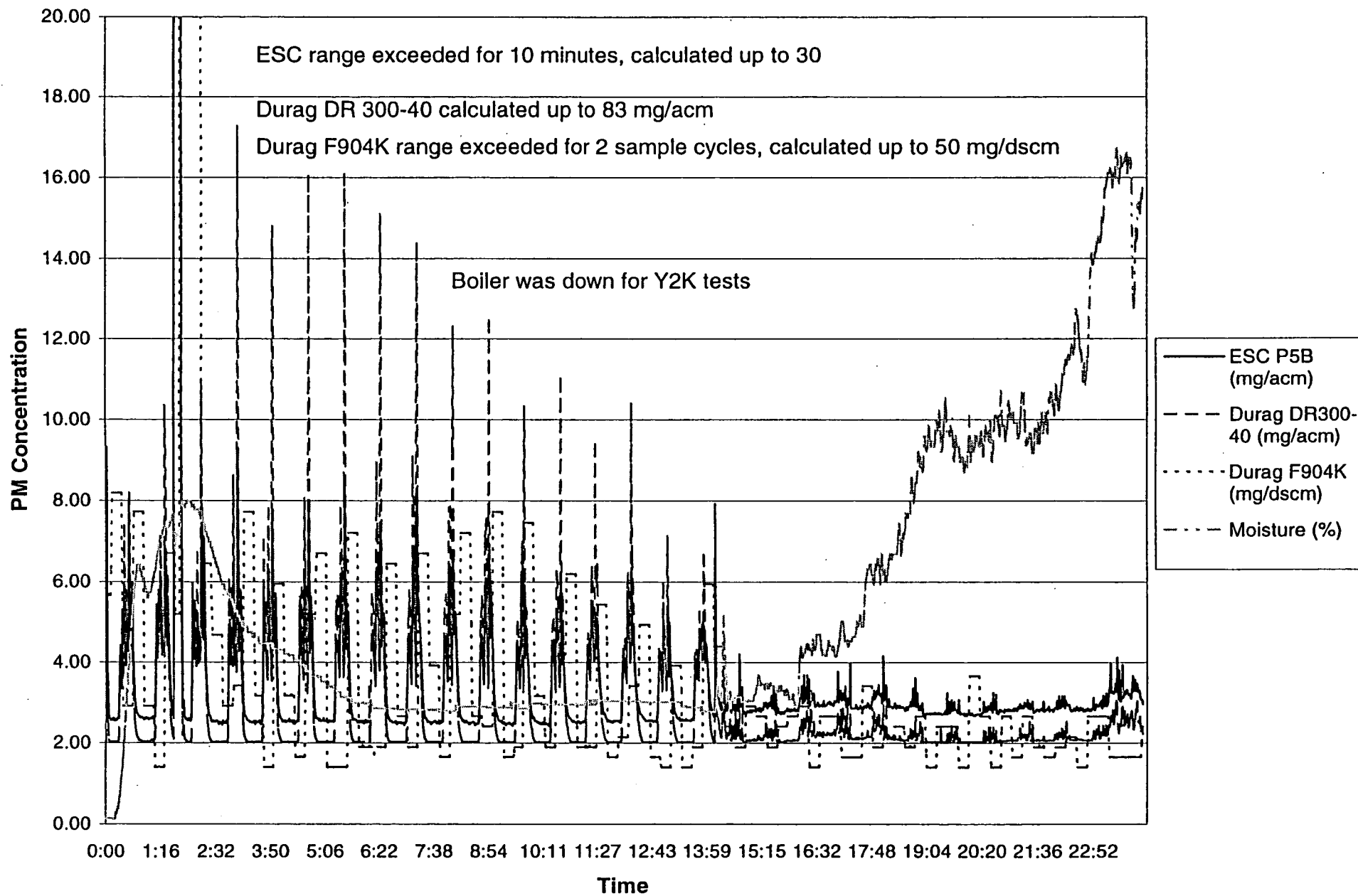
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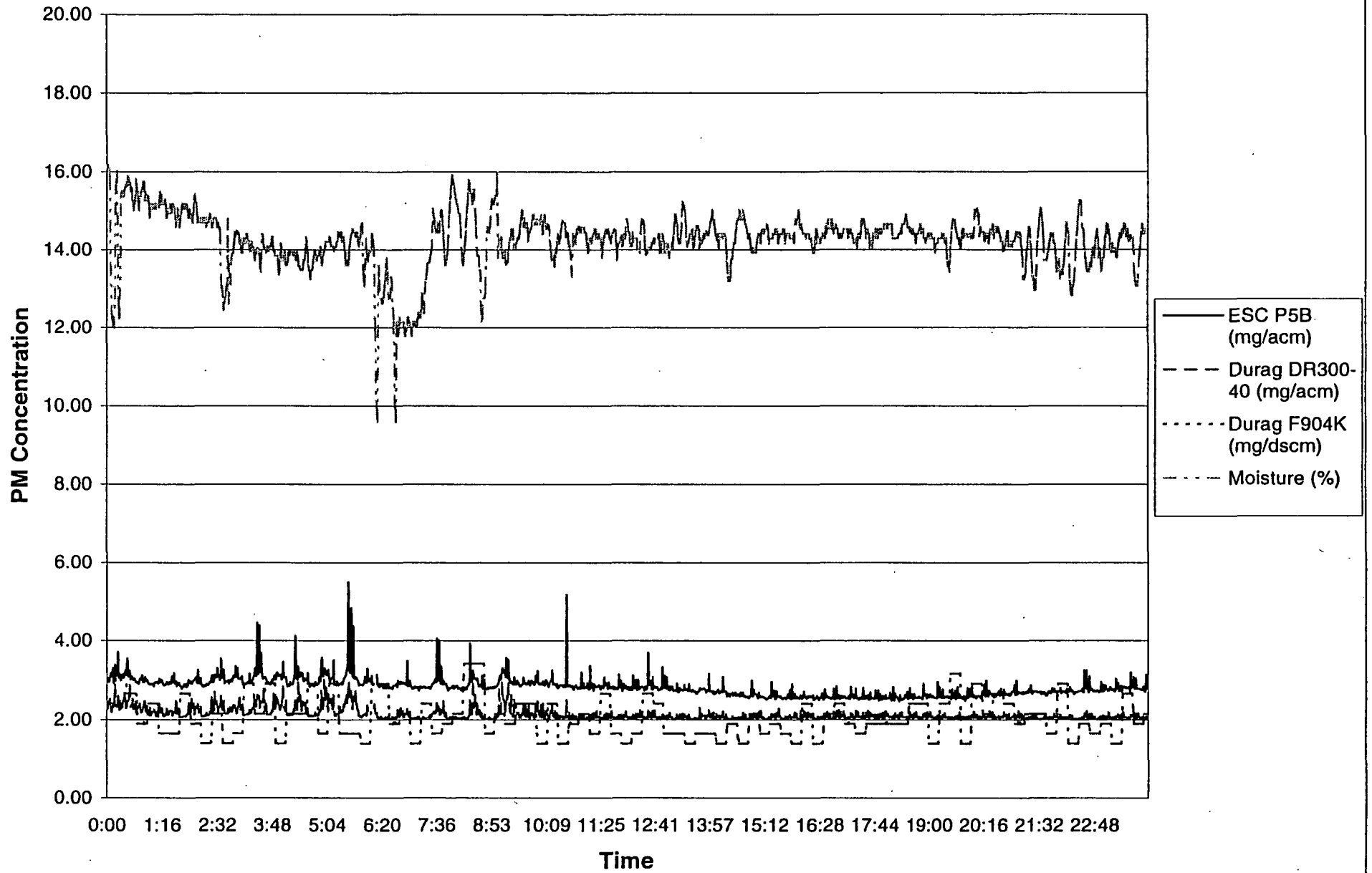
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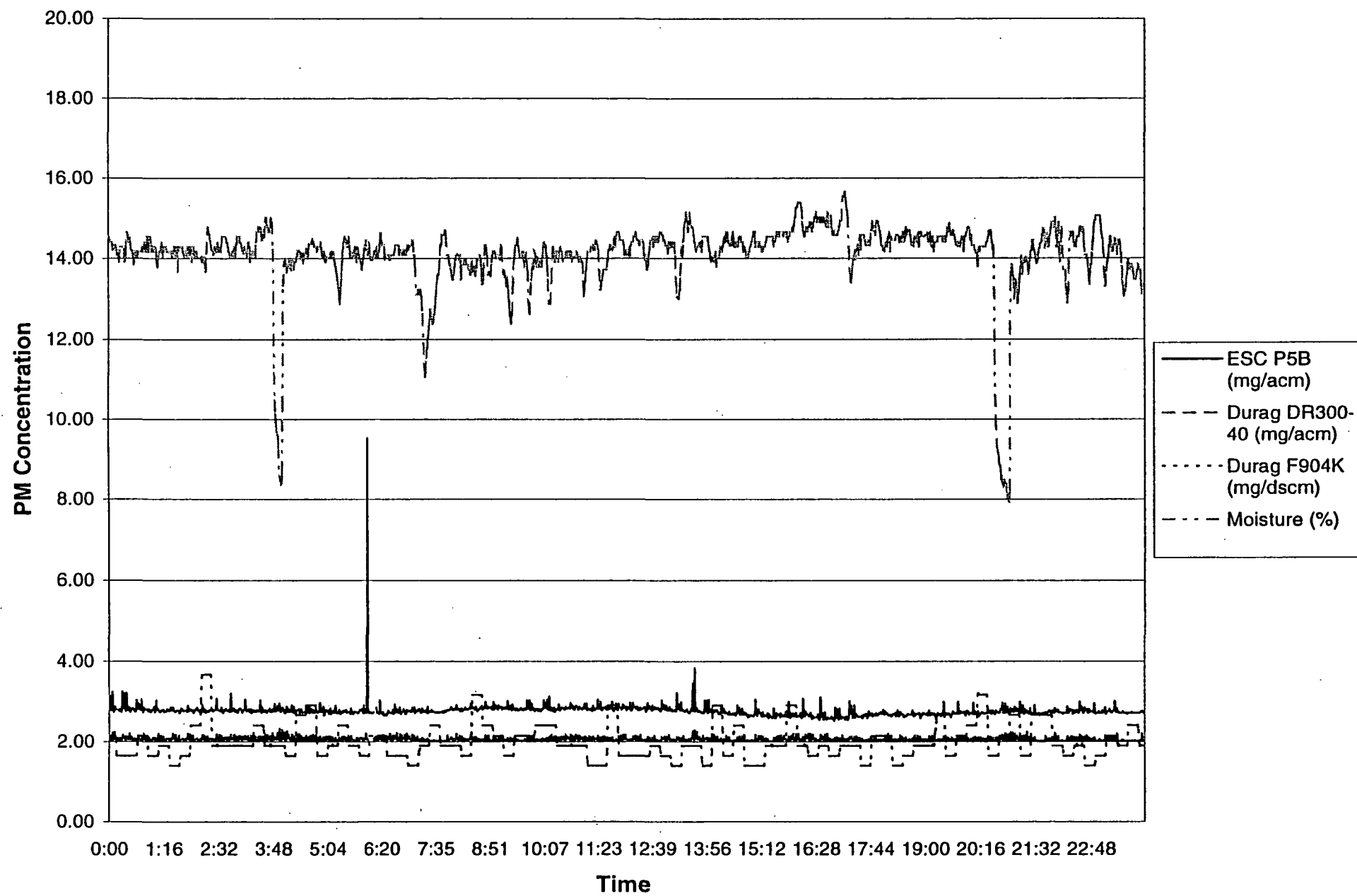
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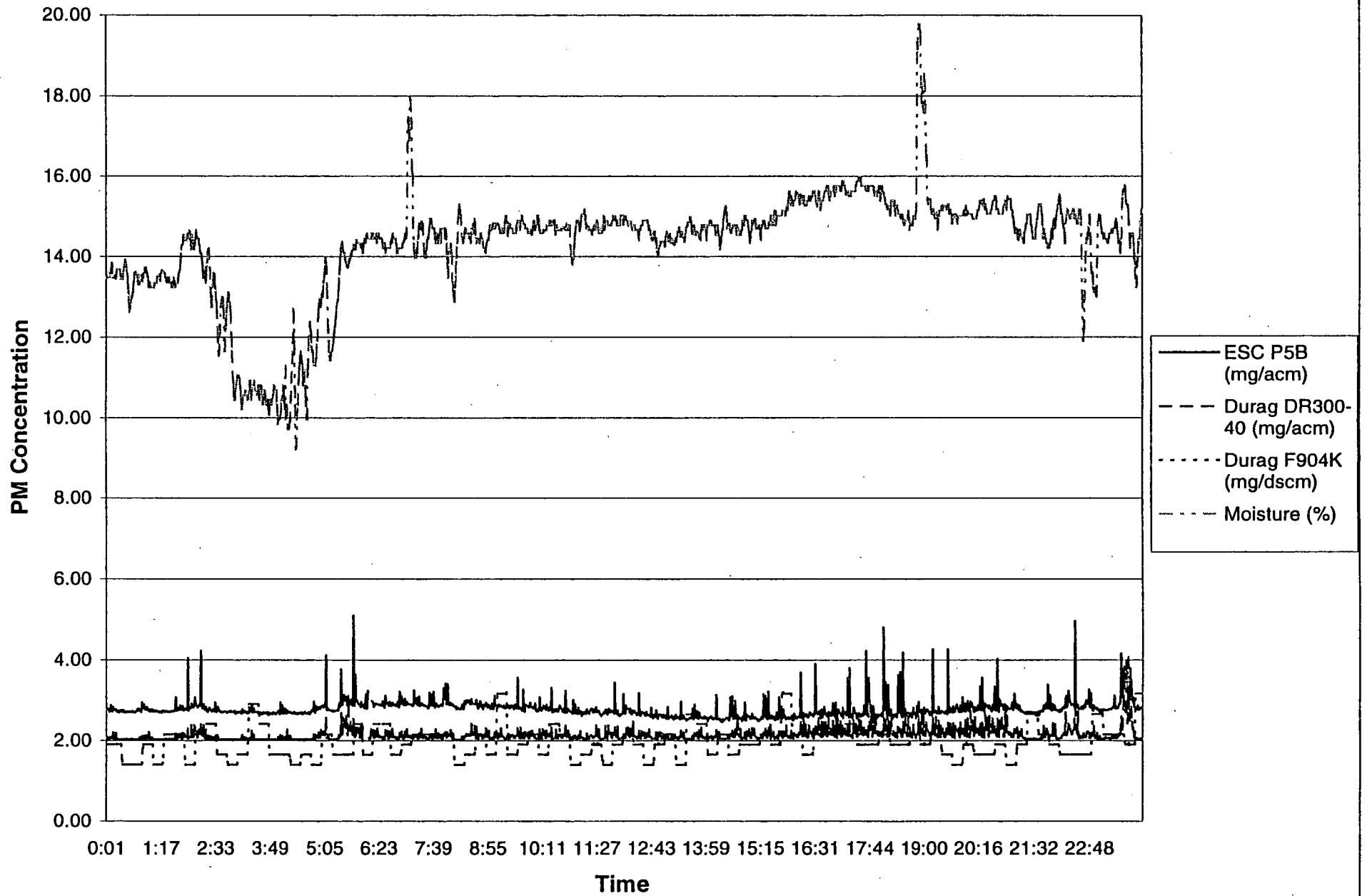
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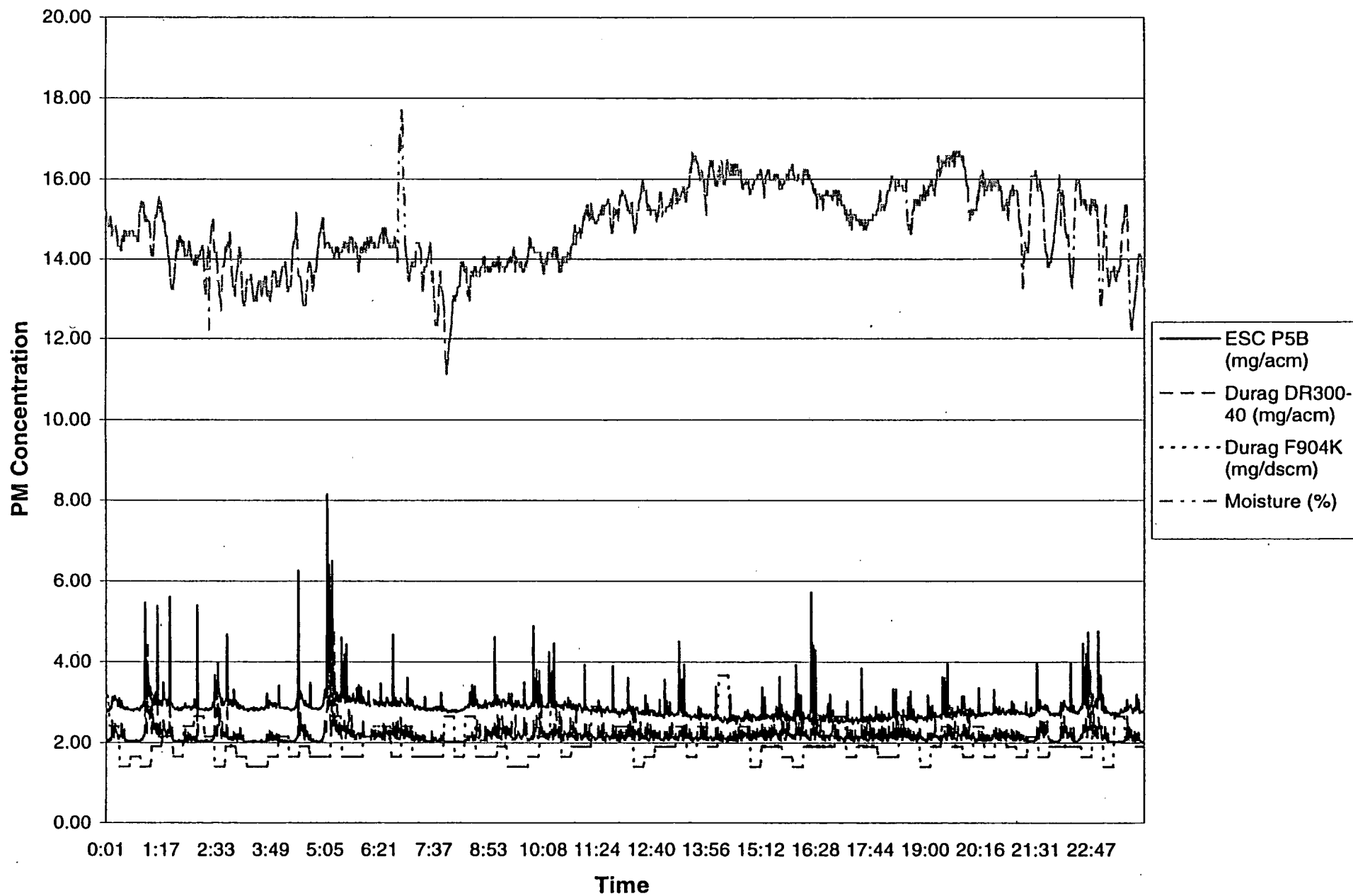
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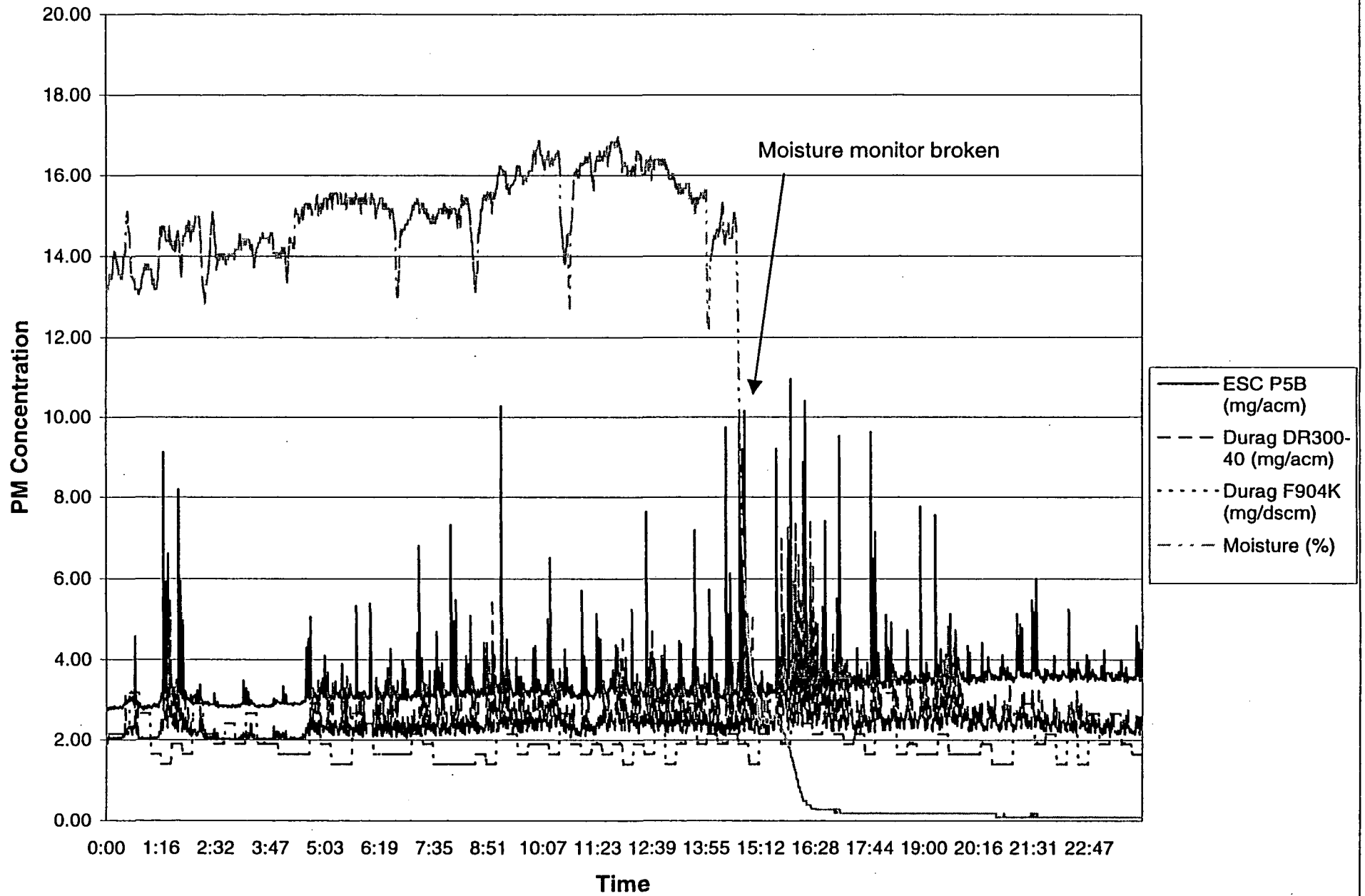
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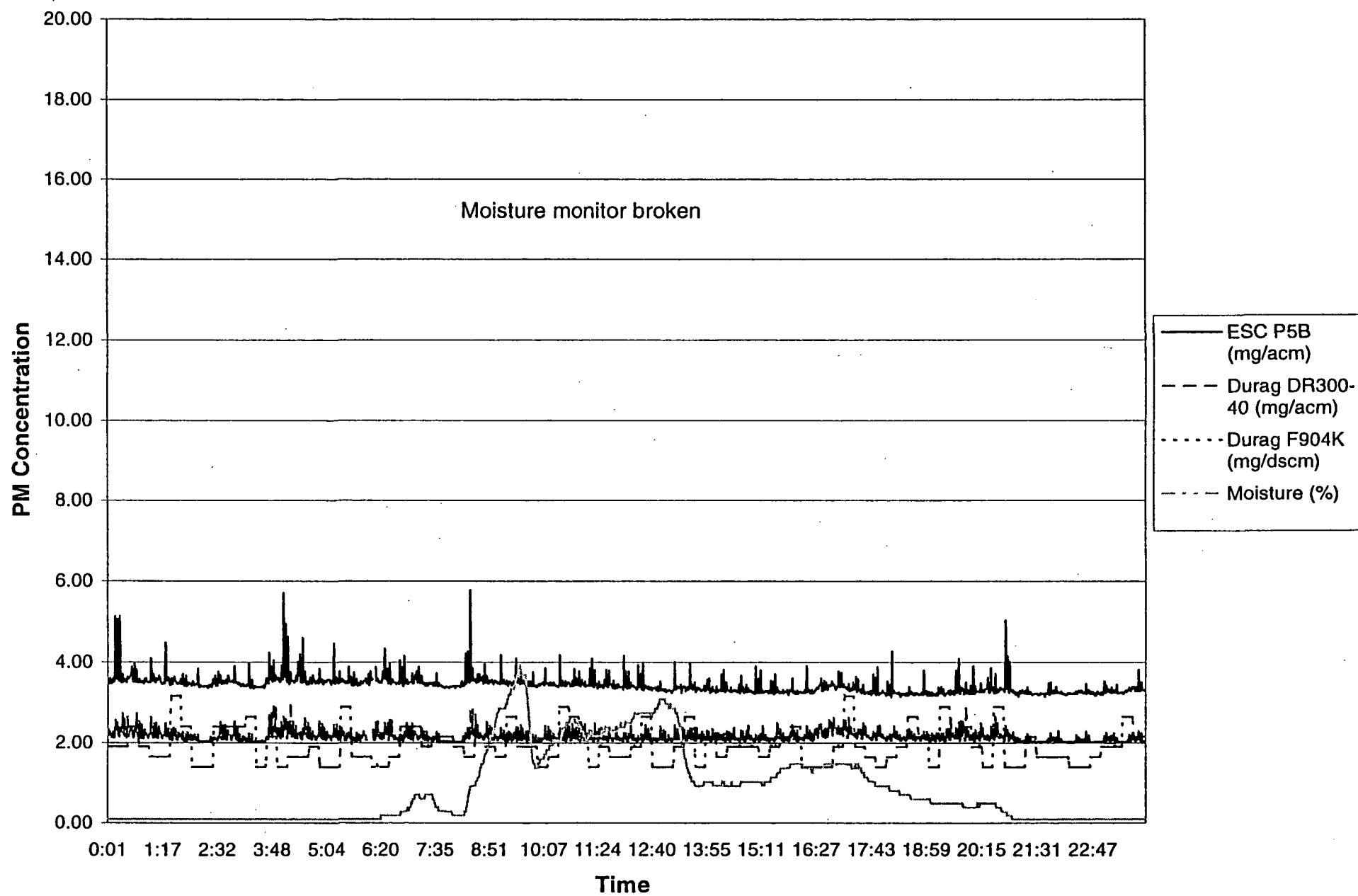
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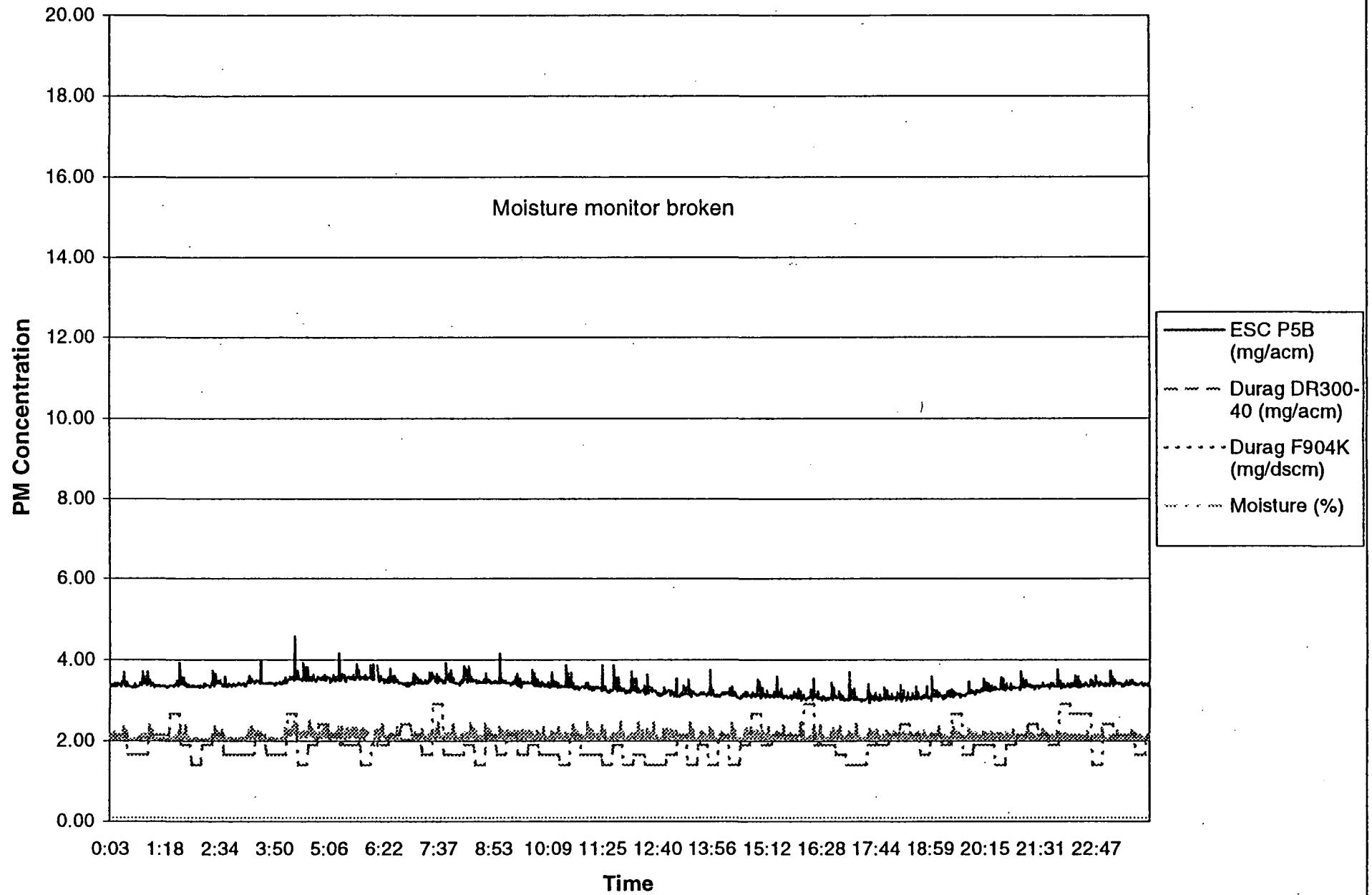
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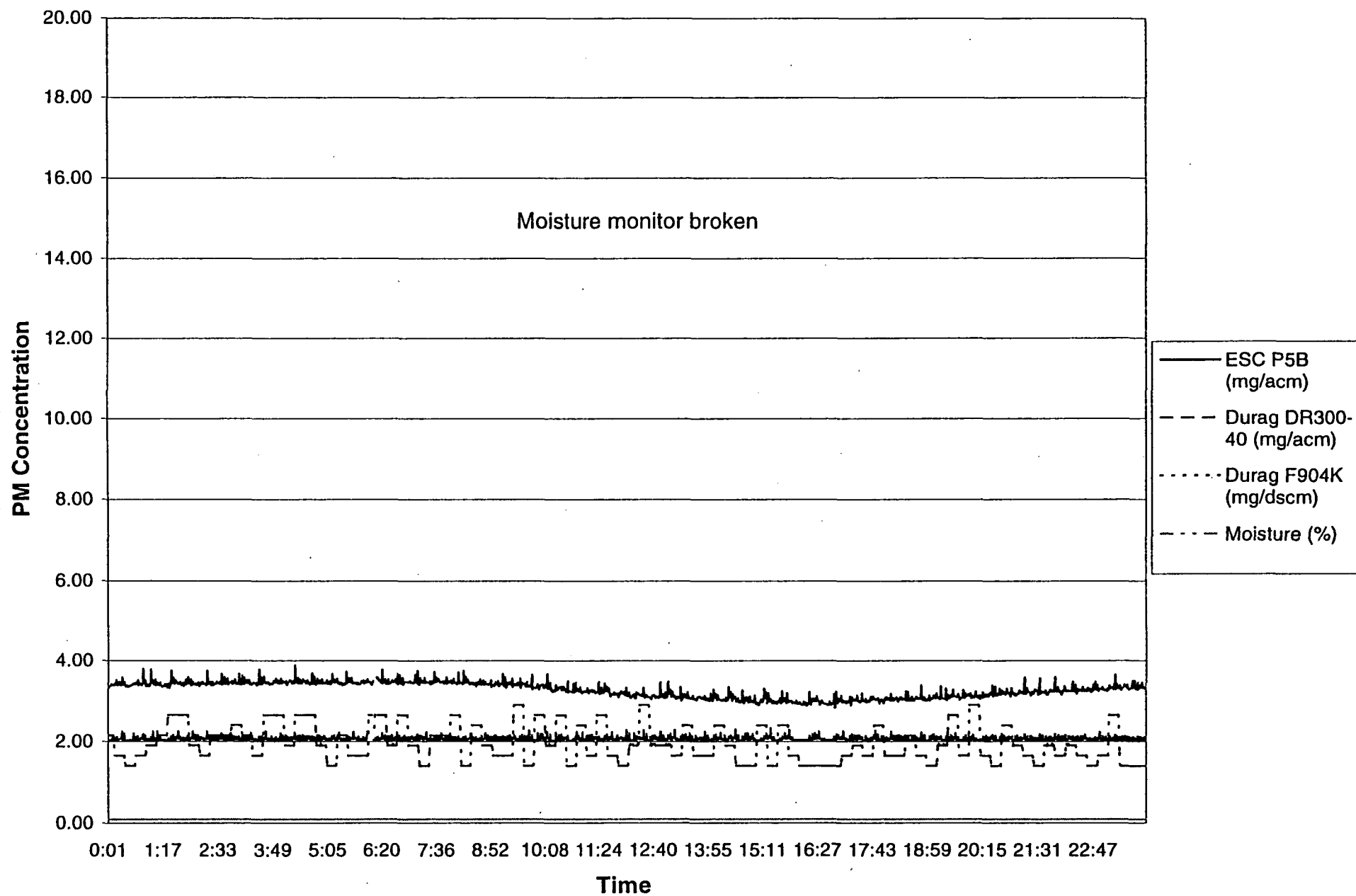
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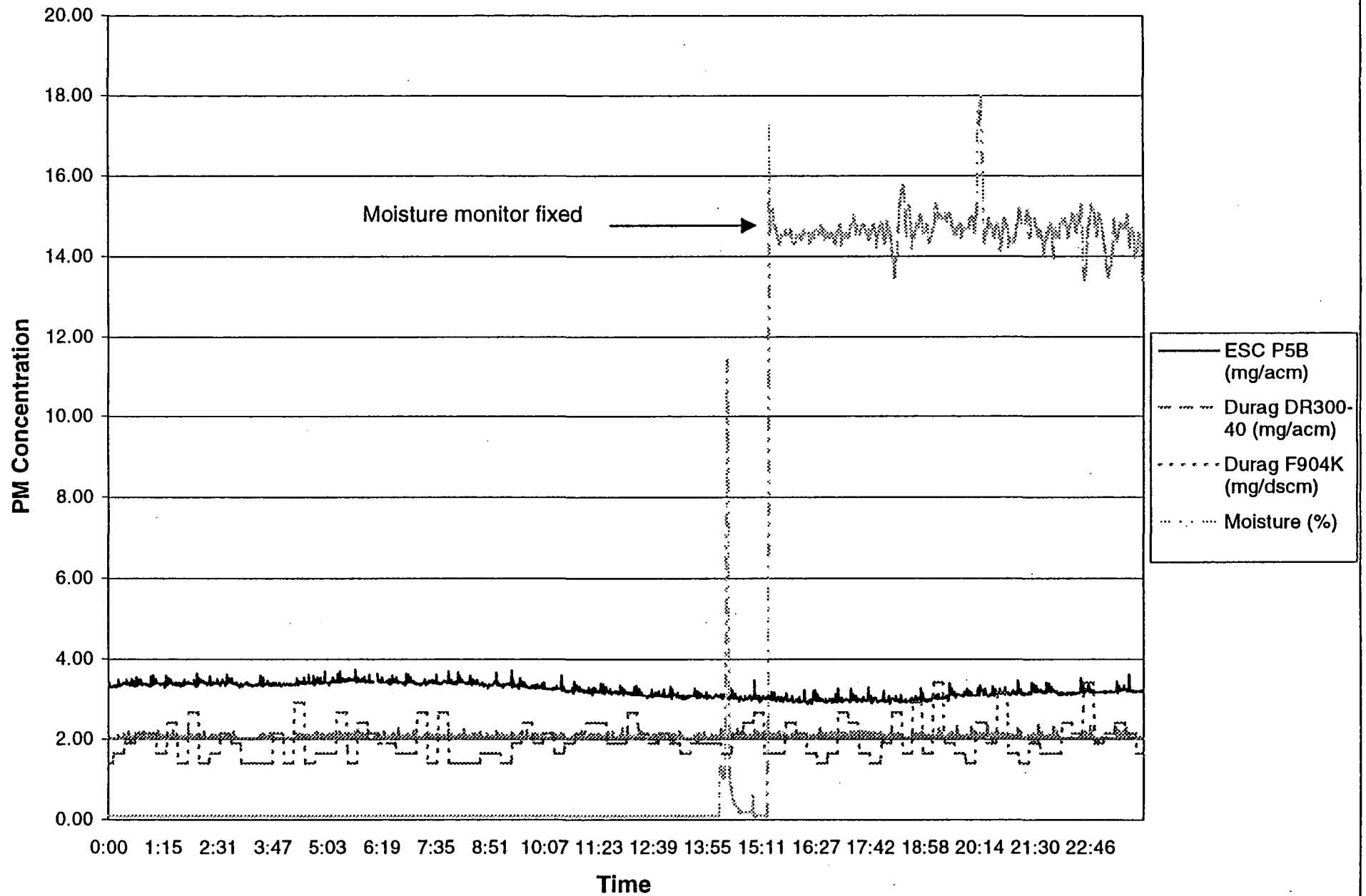
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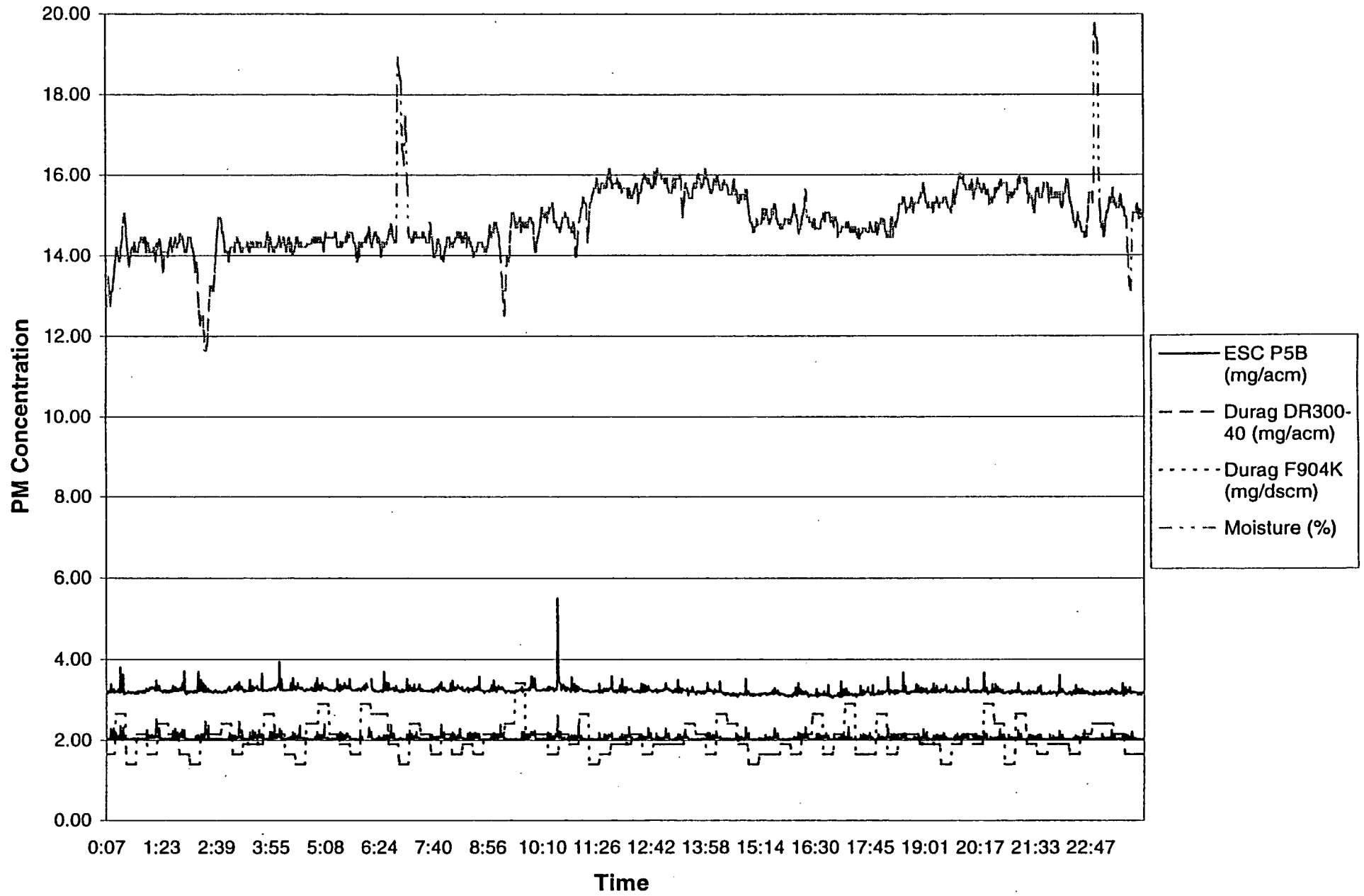
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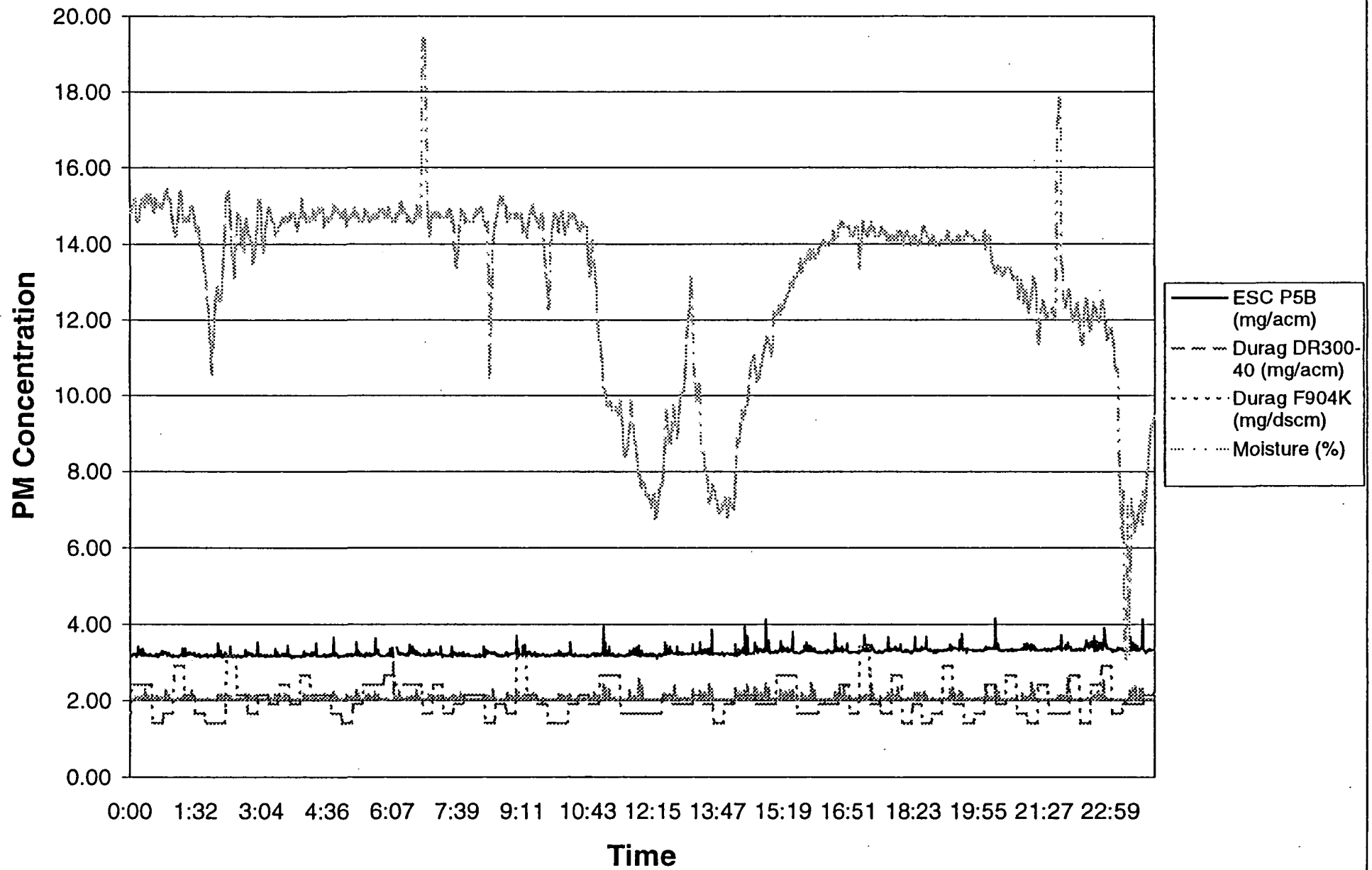
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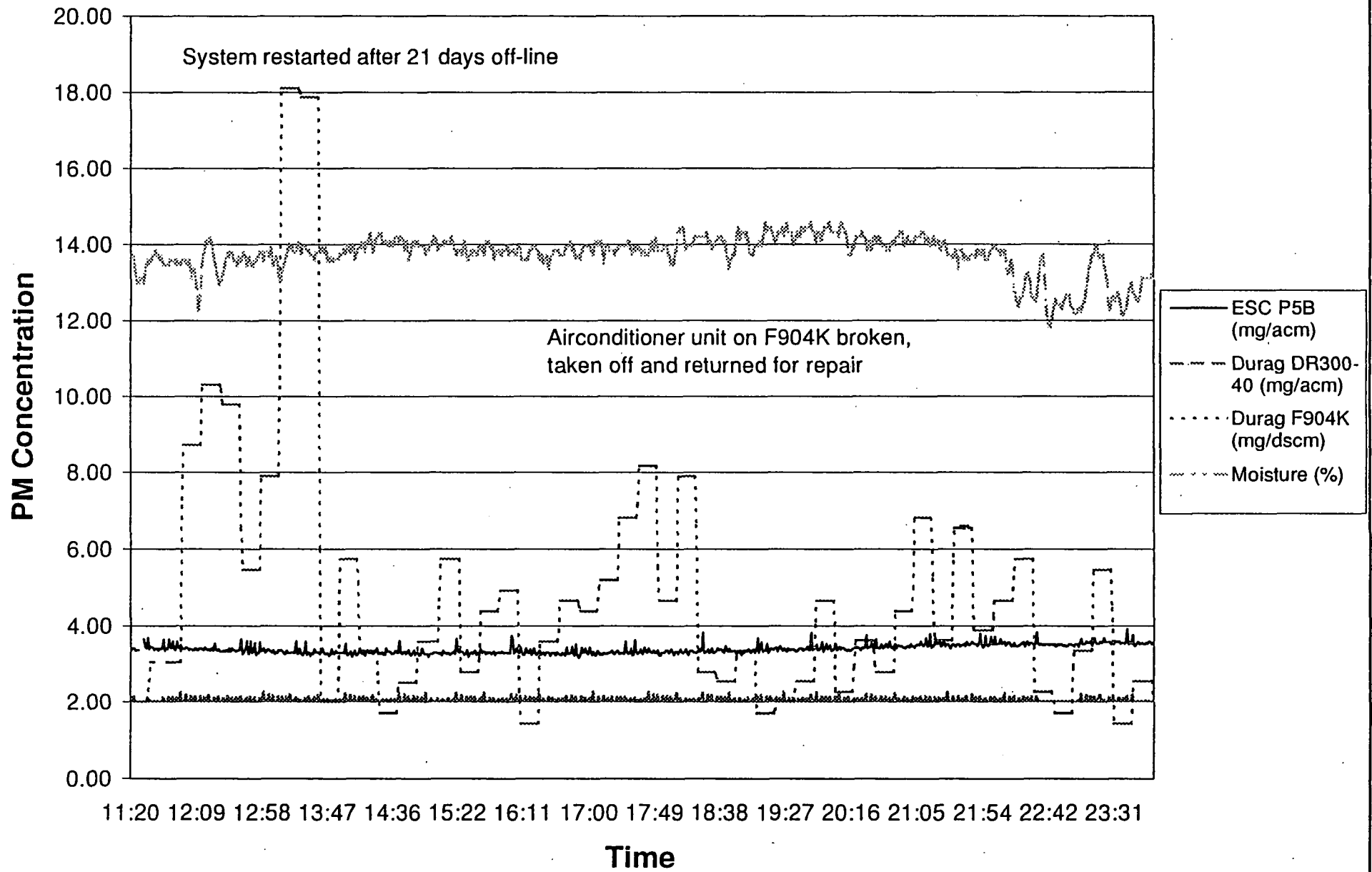


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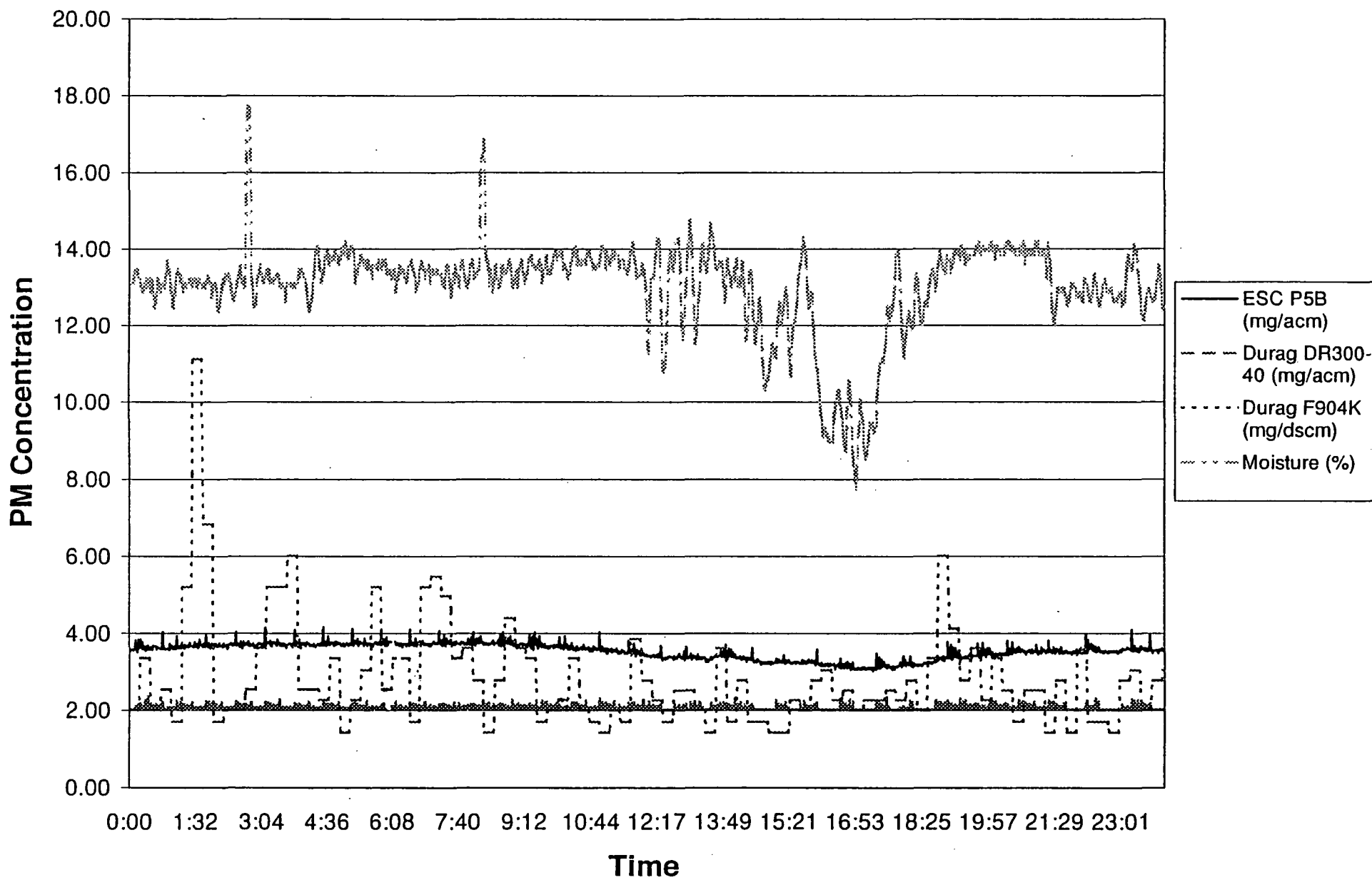


Note—No data for September 16 through October 6 due to Hurricane Floyd.

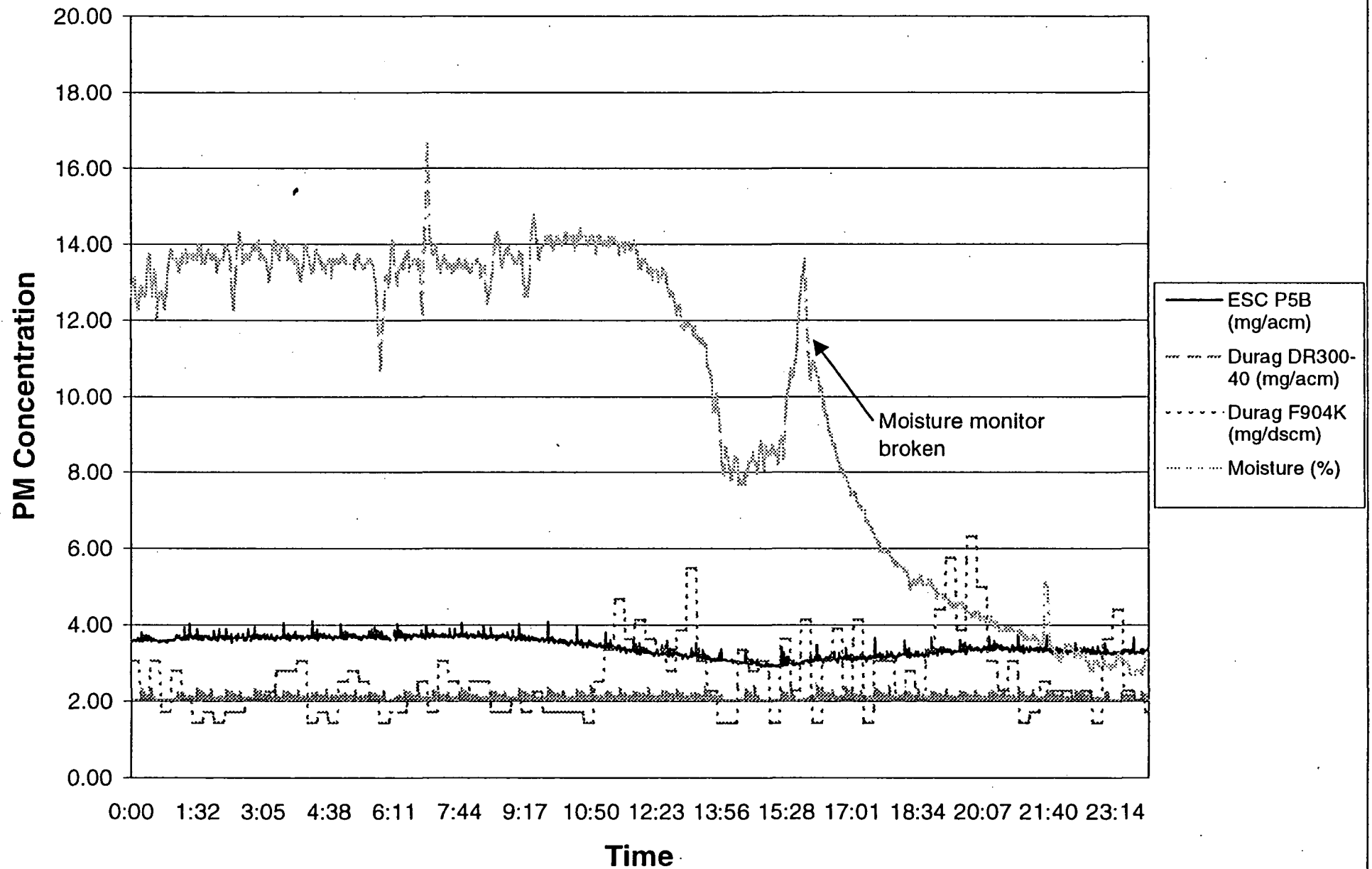
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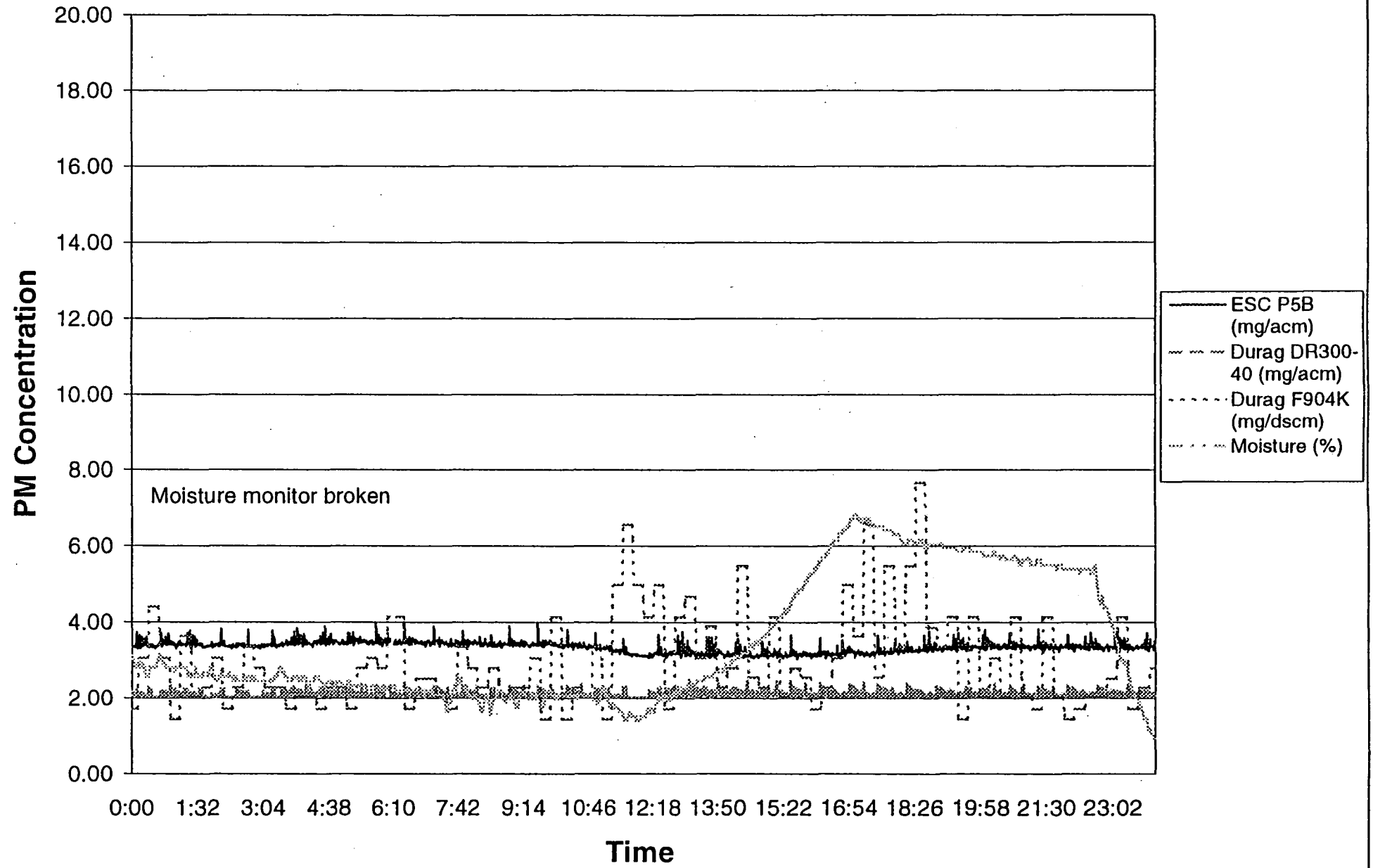
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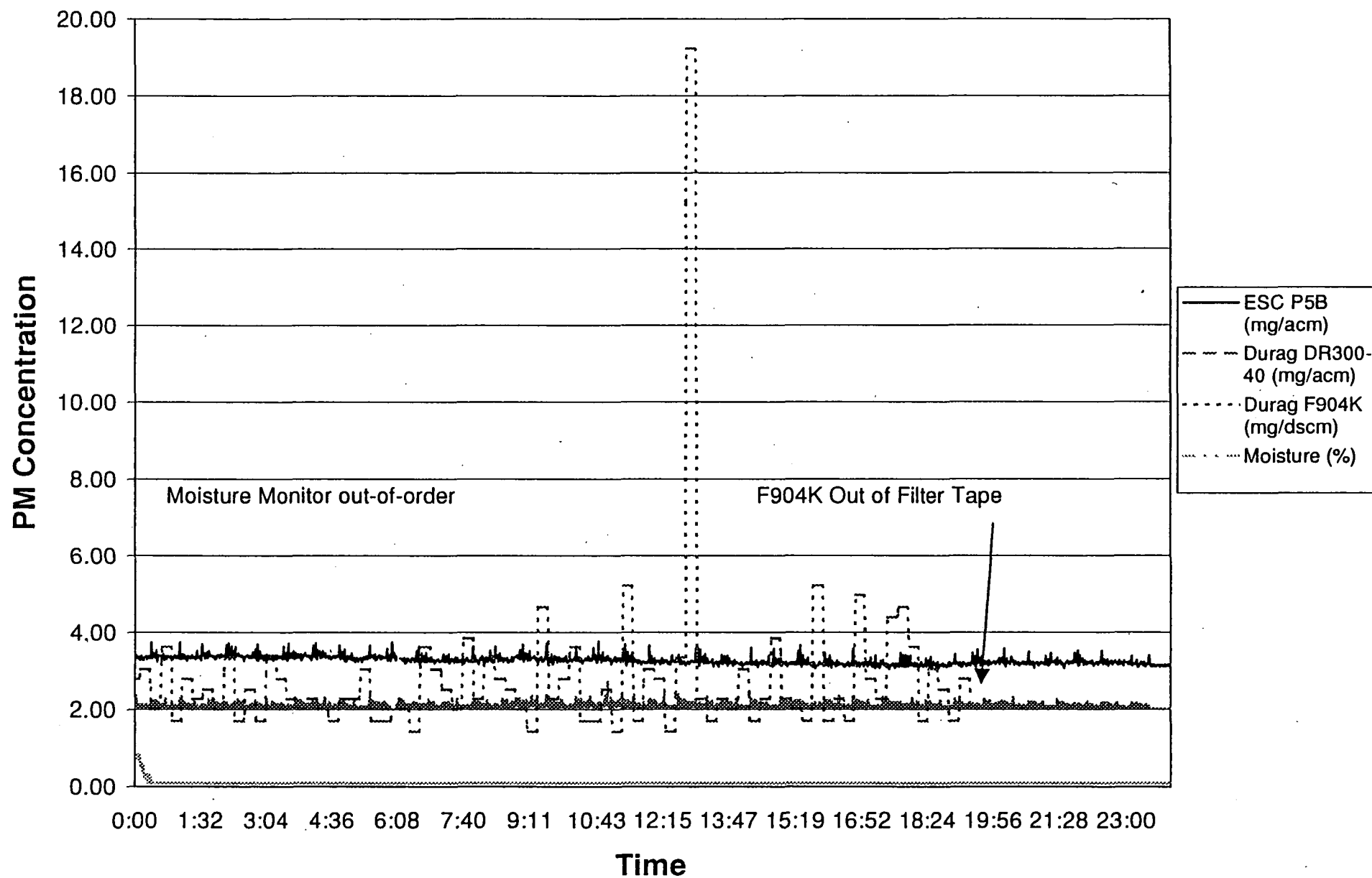
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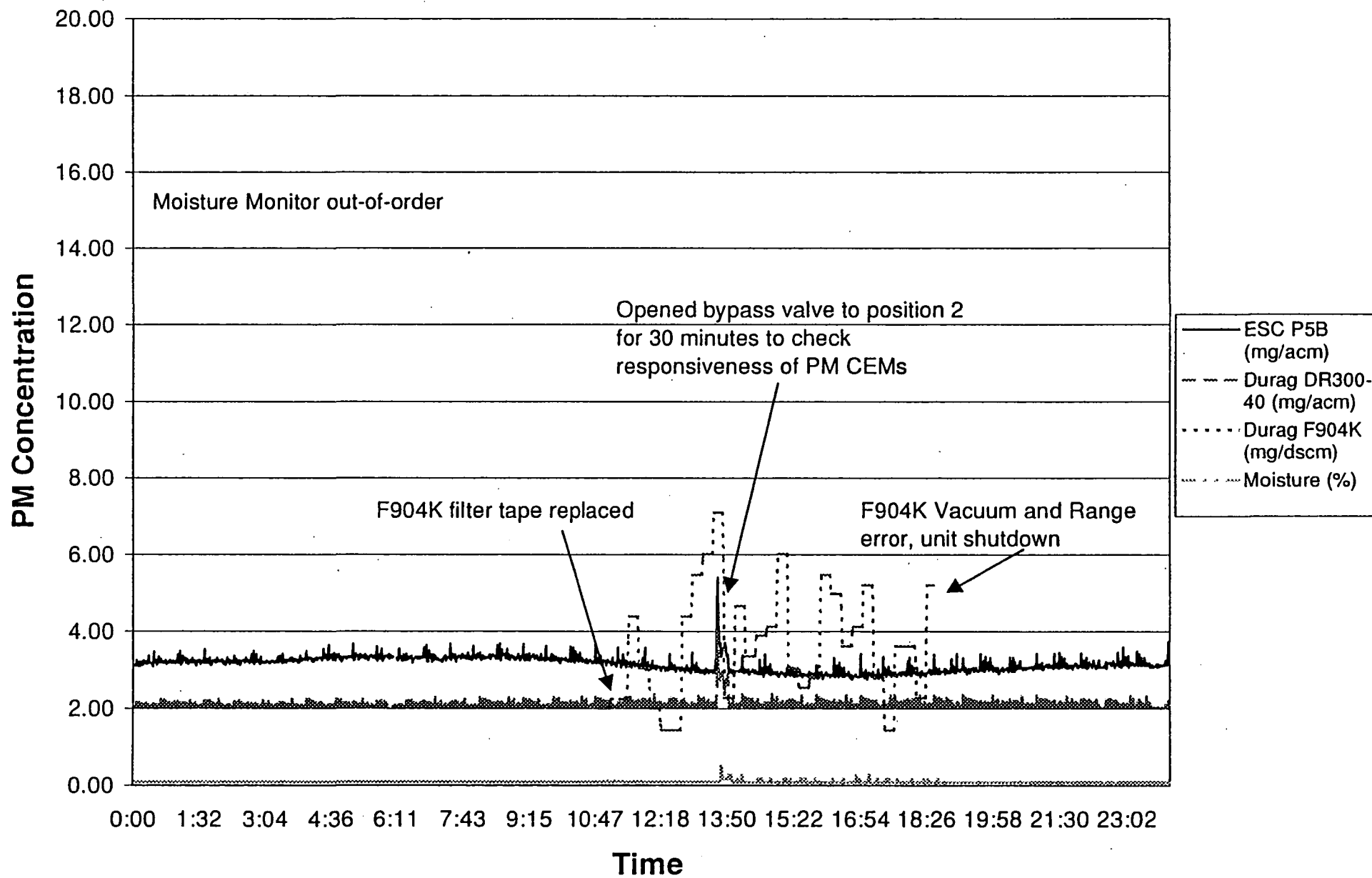
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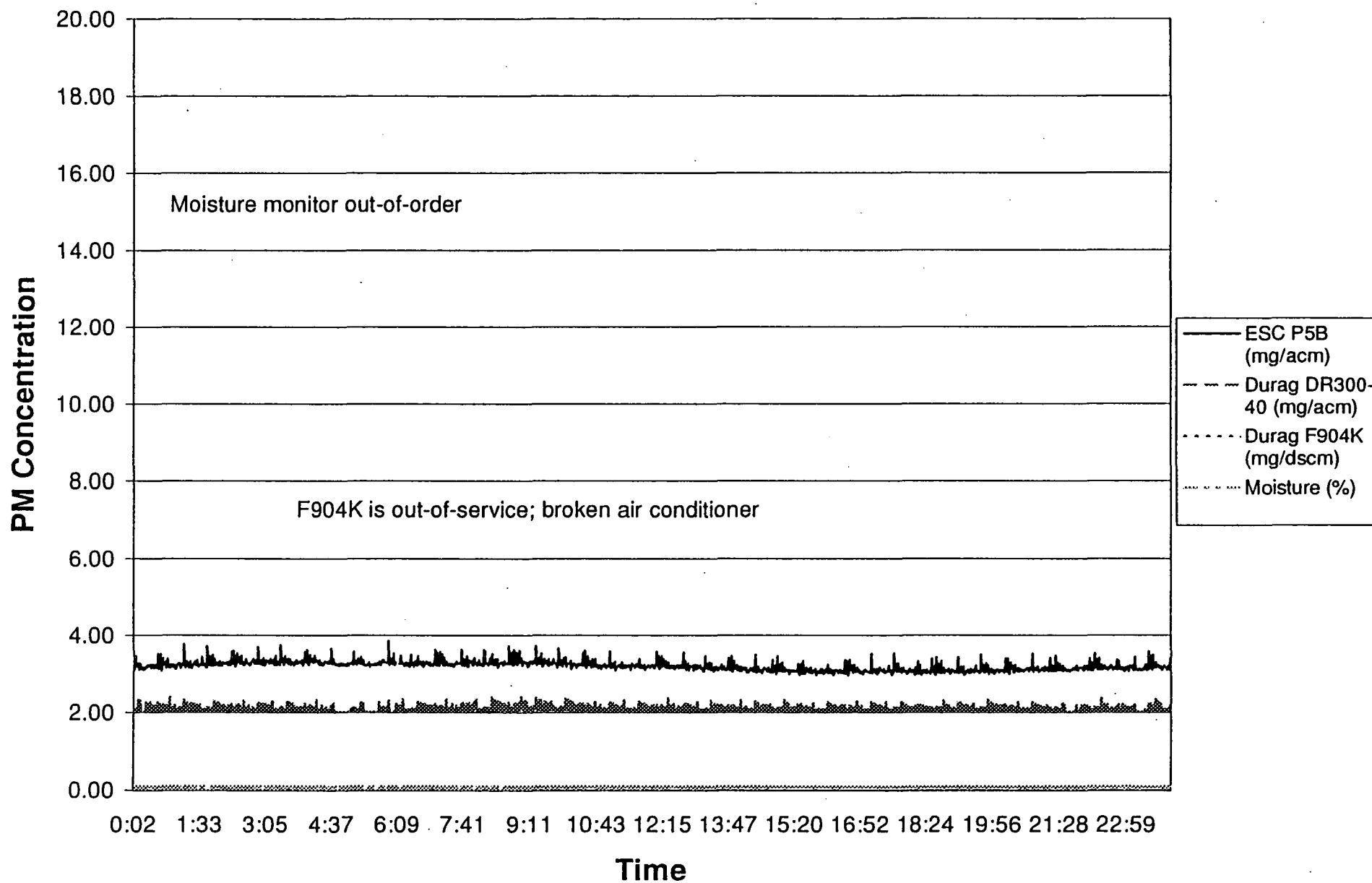
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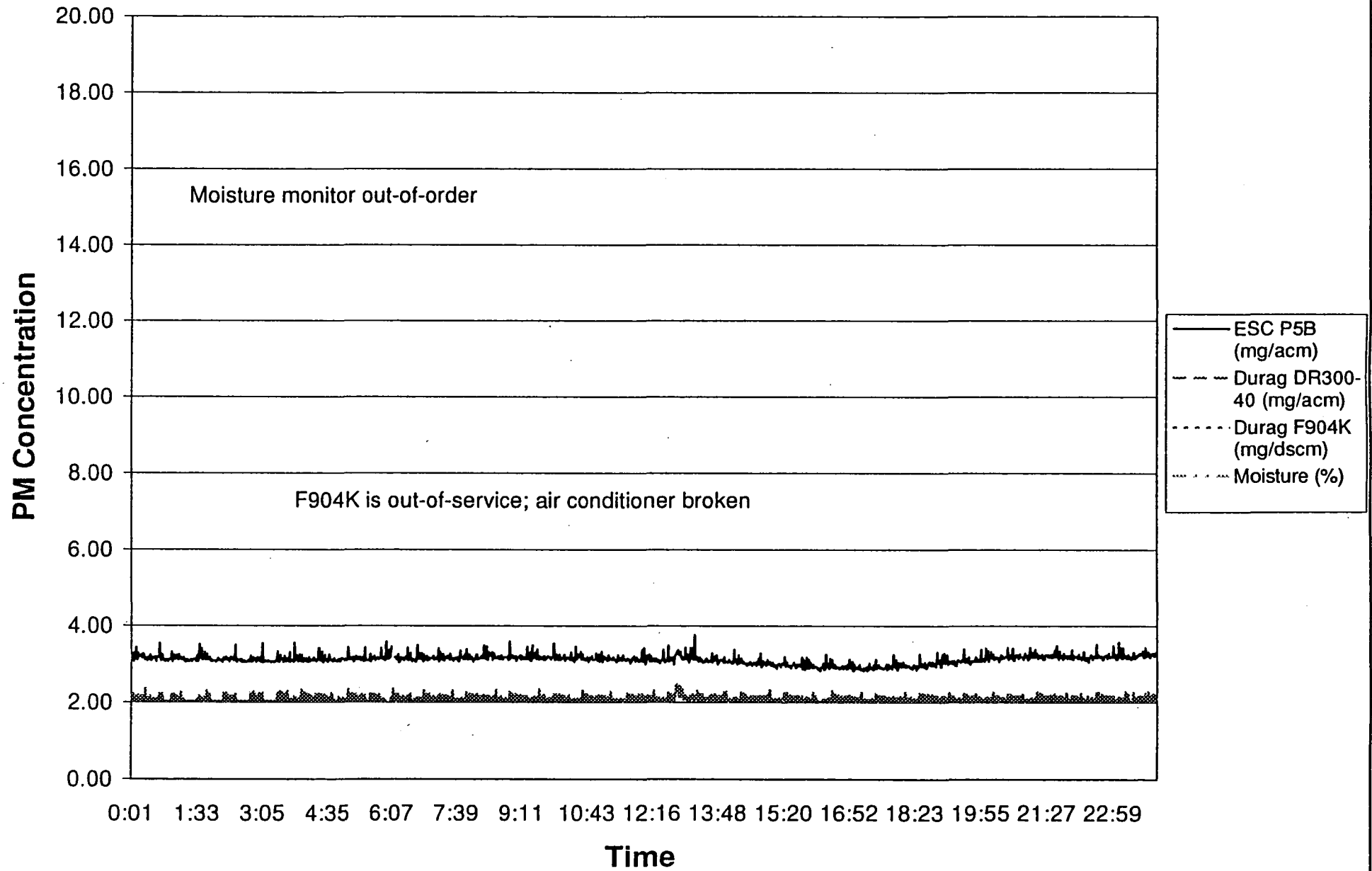
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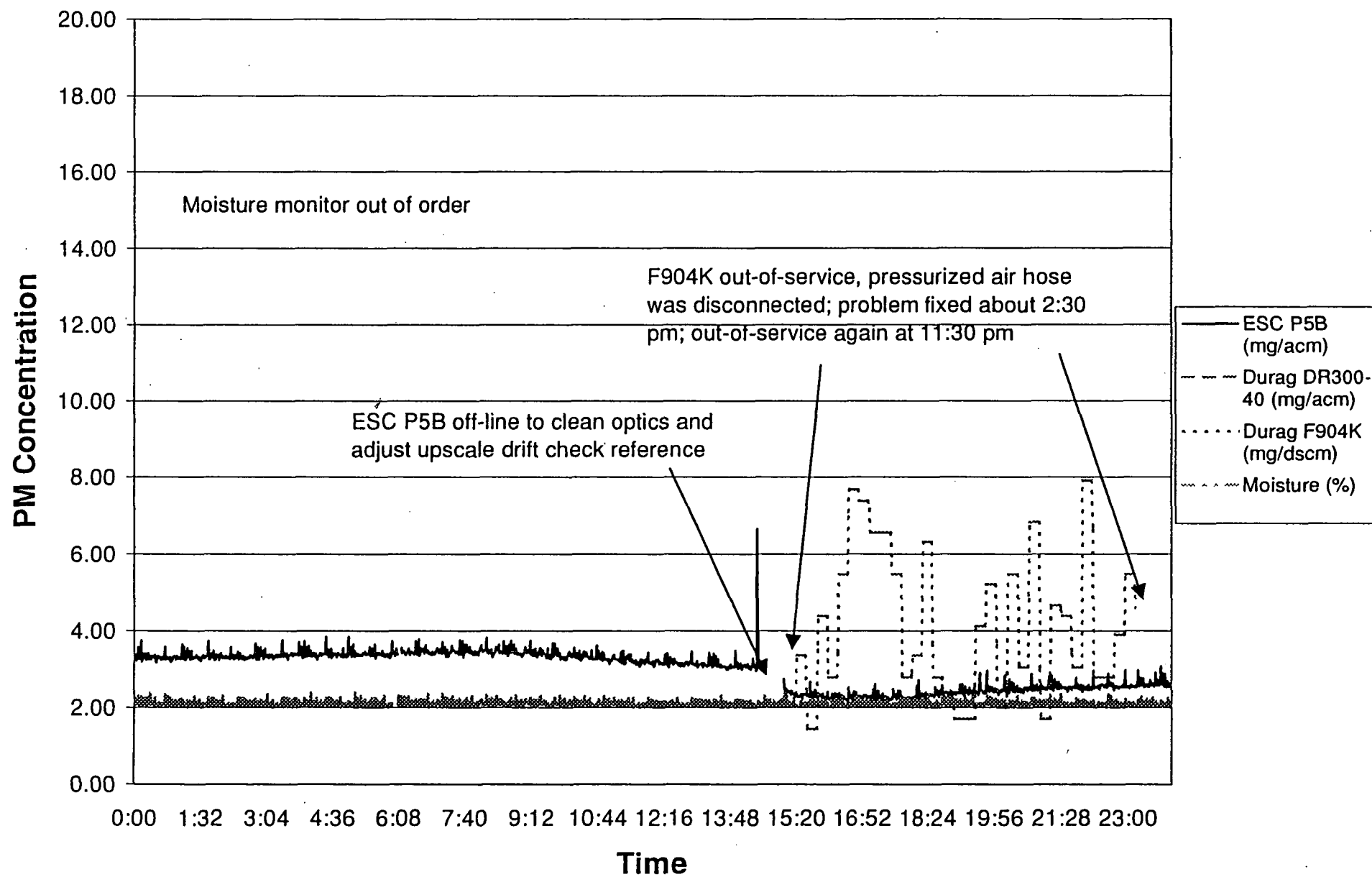
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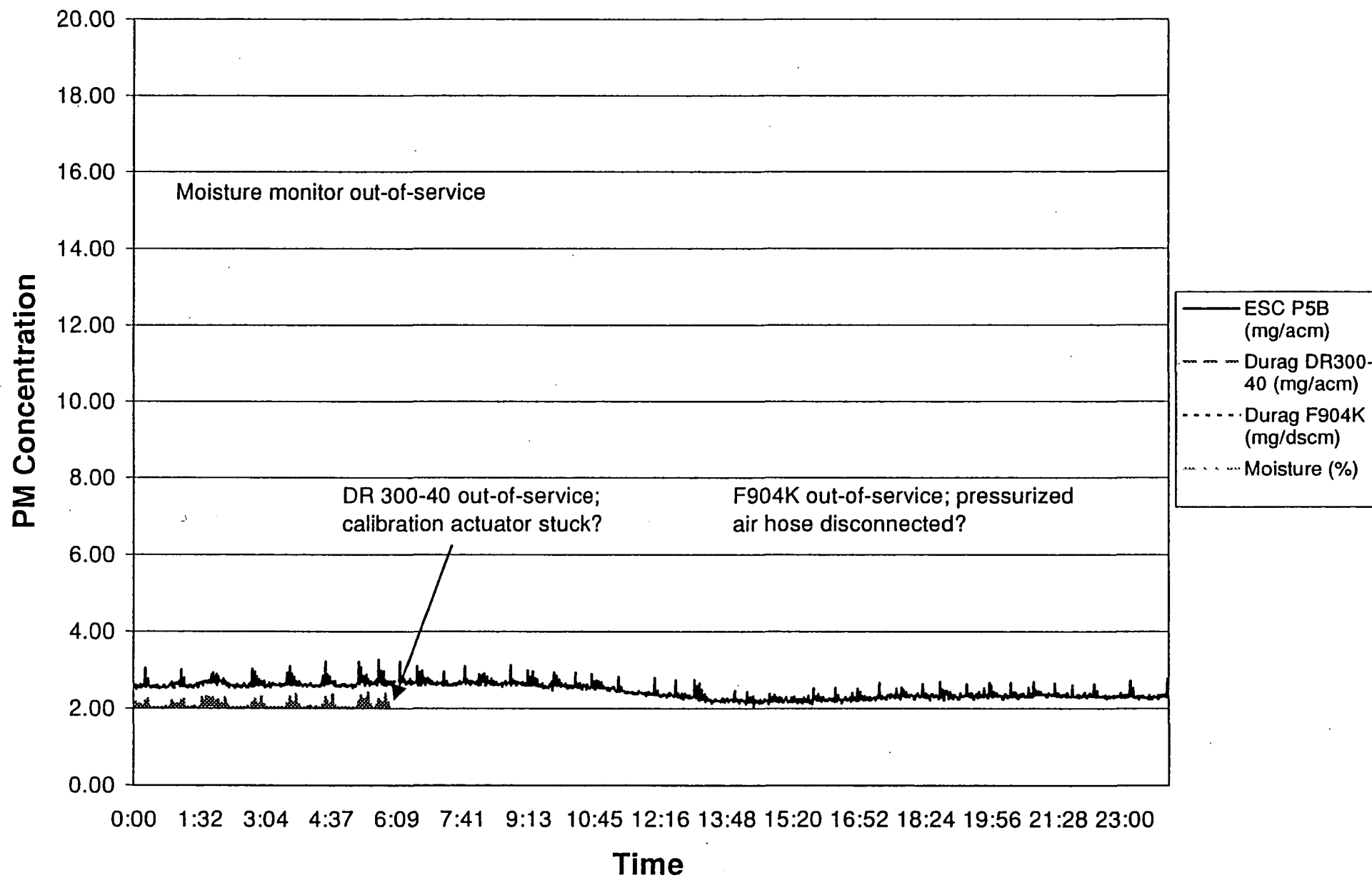
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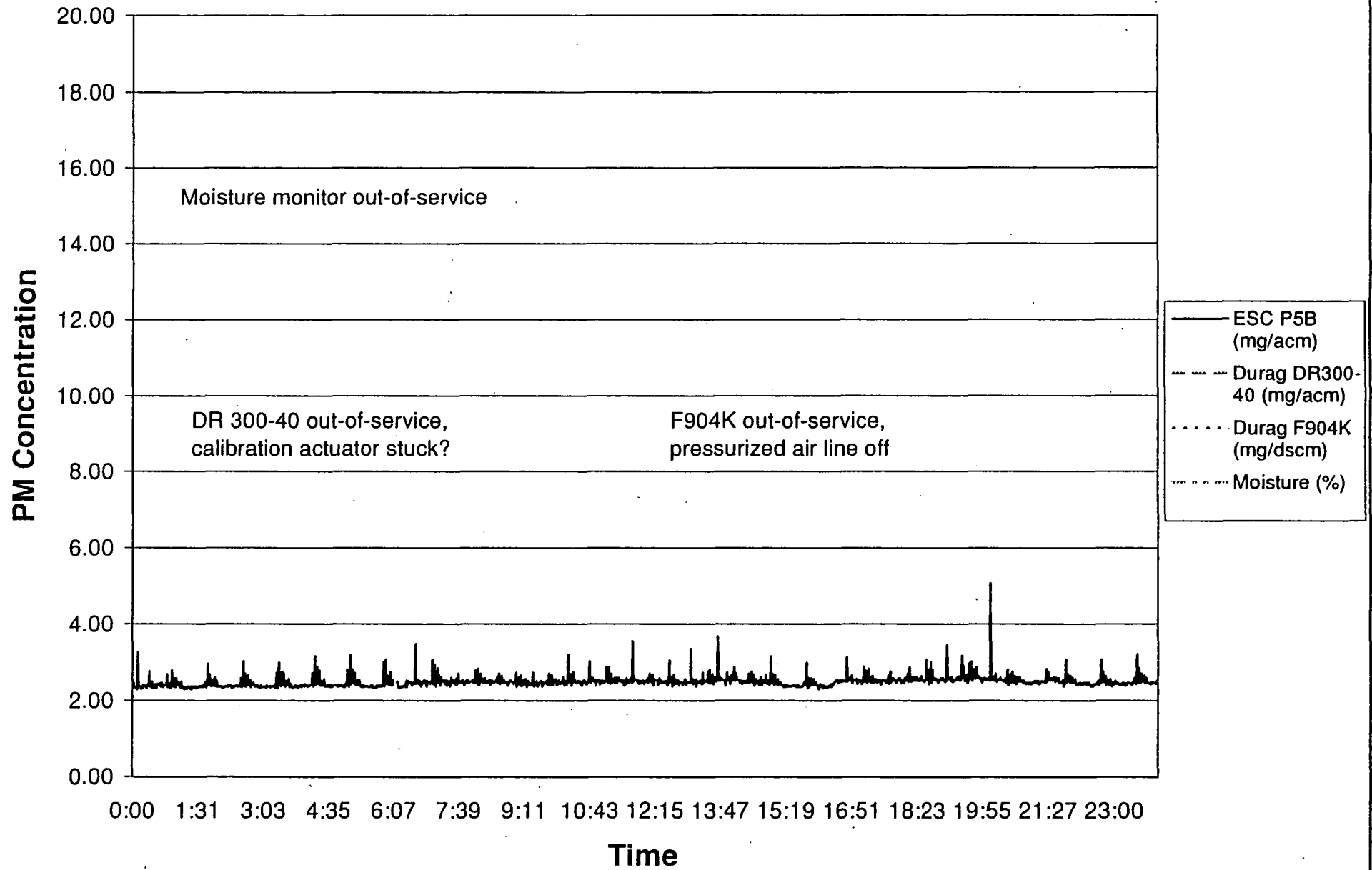
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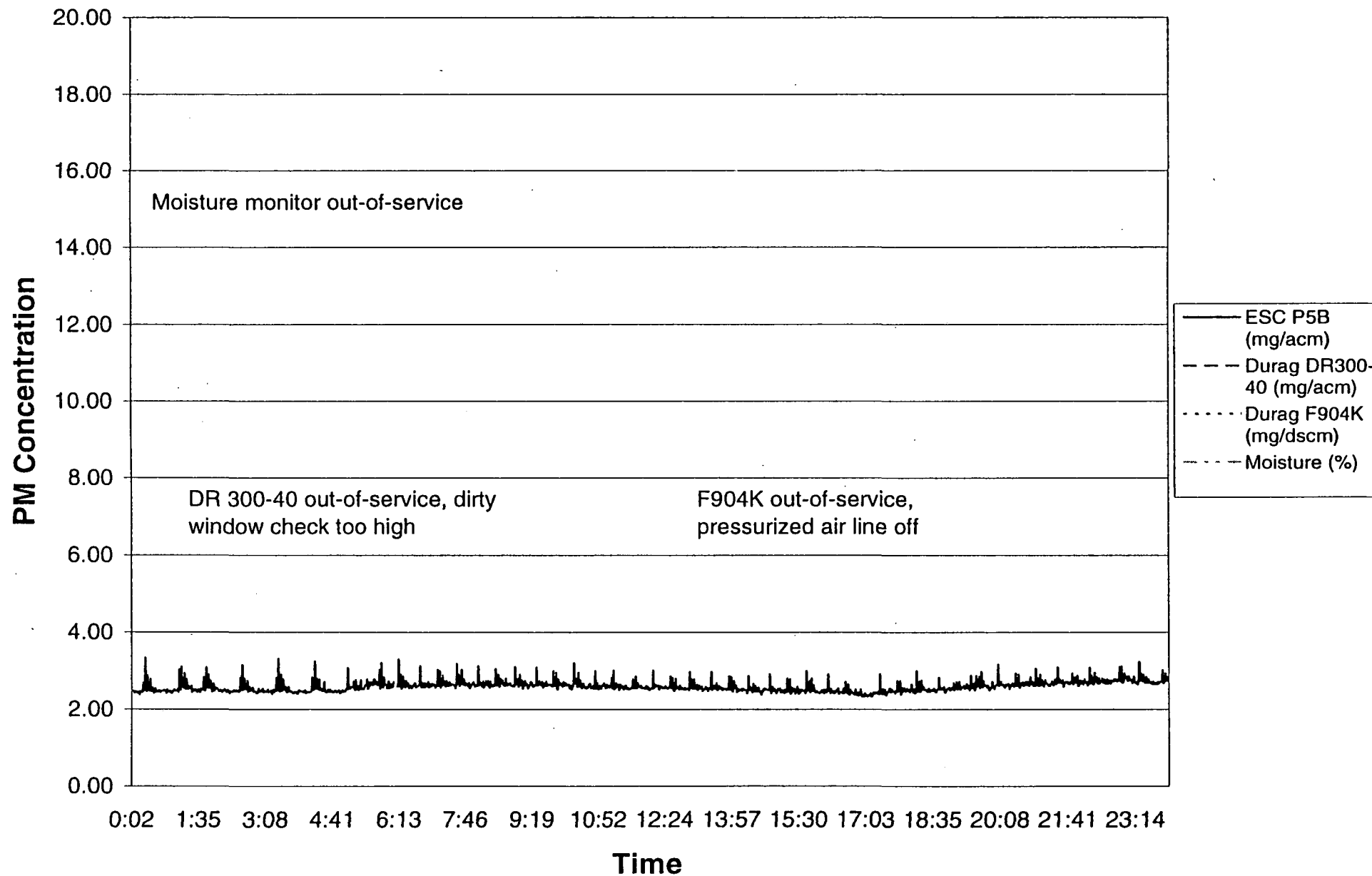
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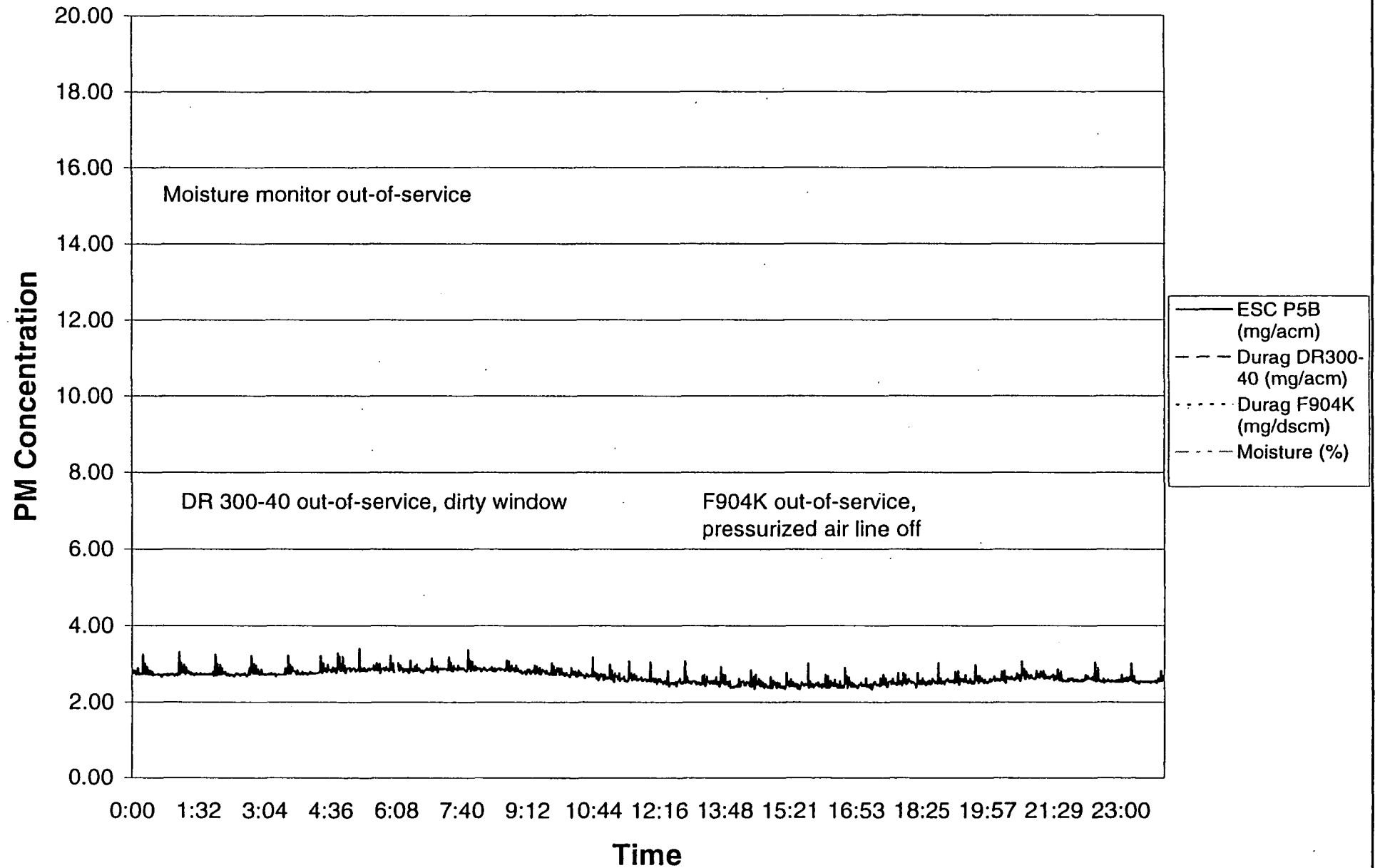
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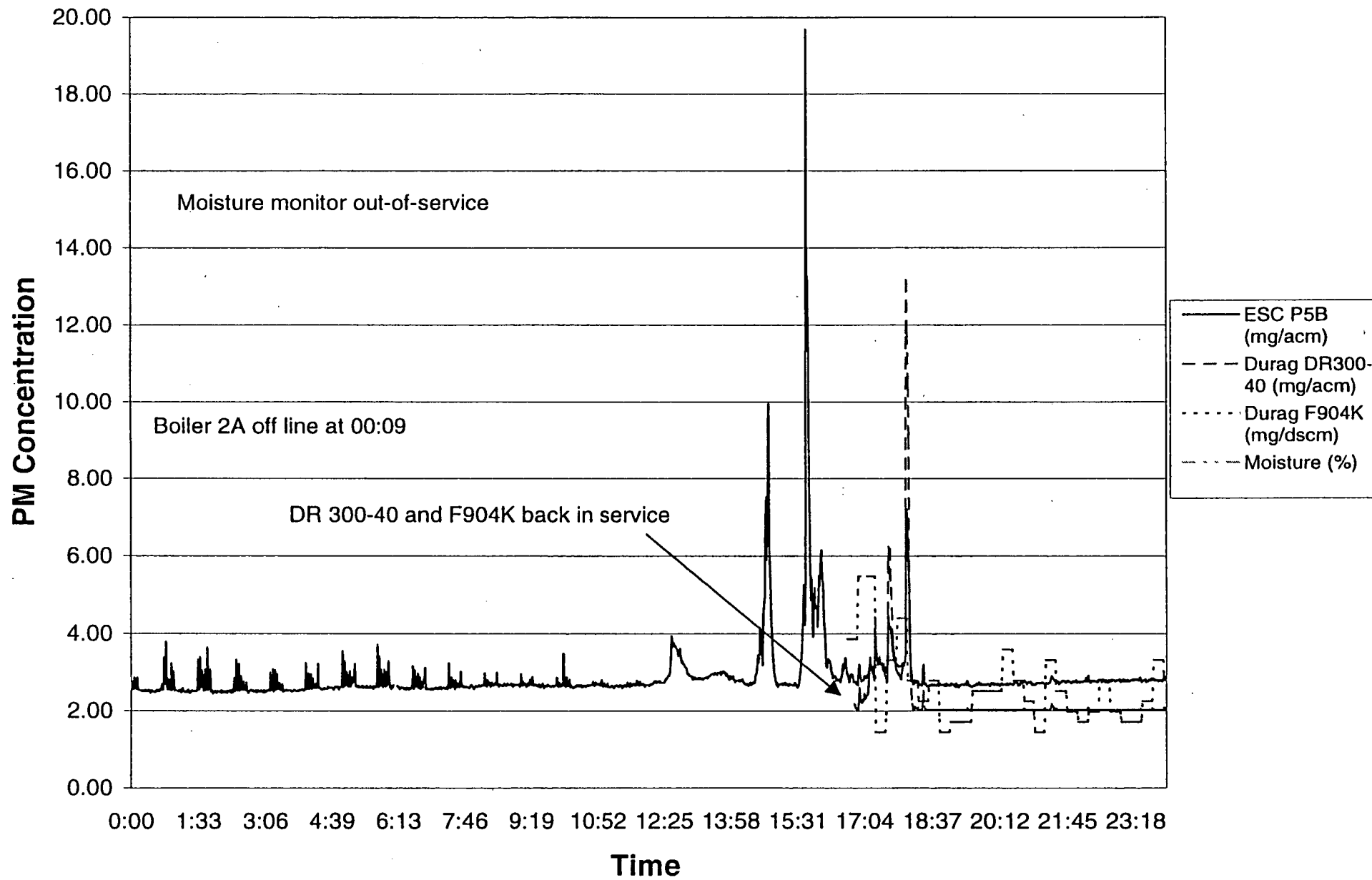
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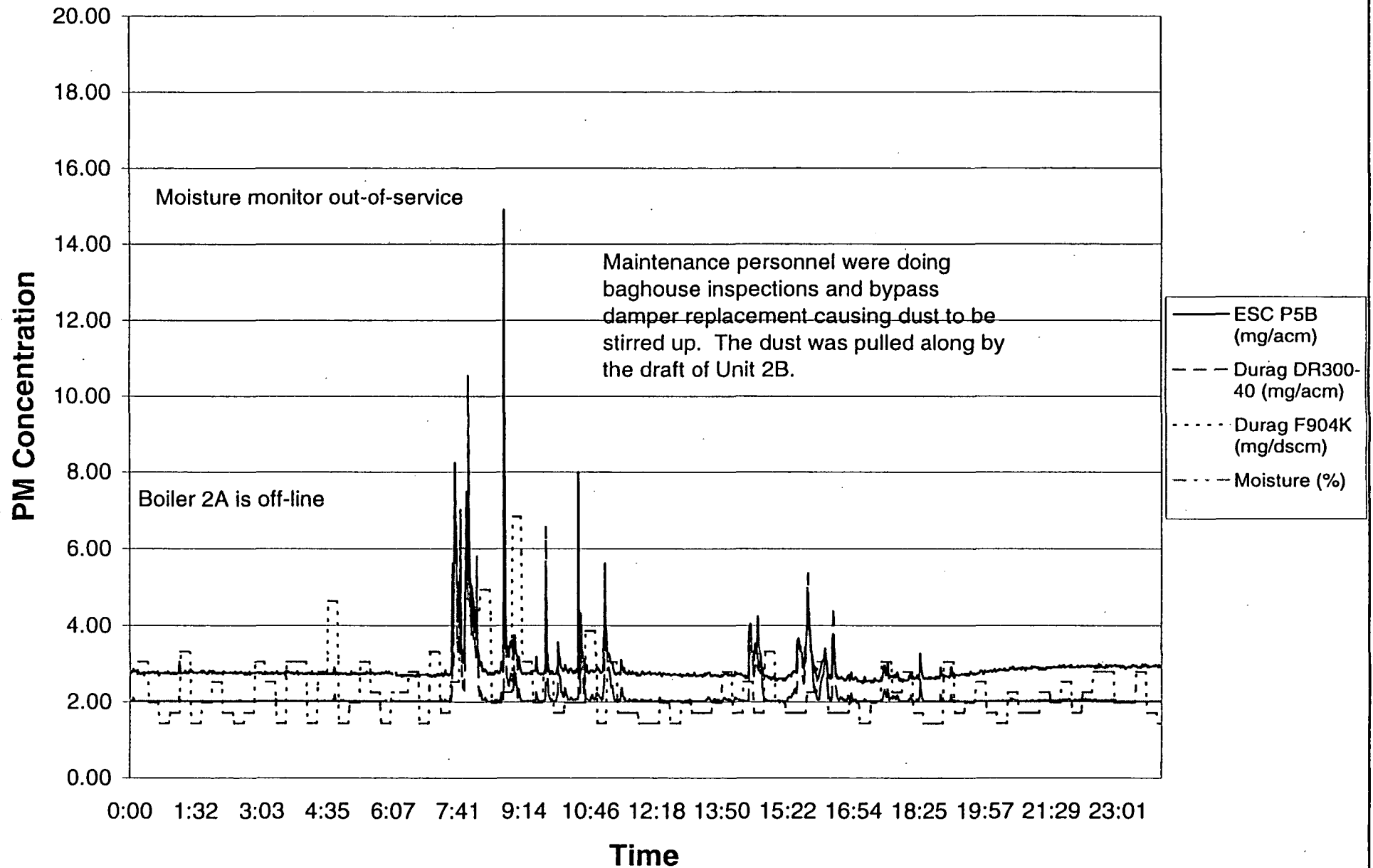
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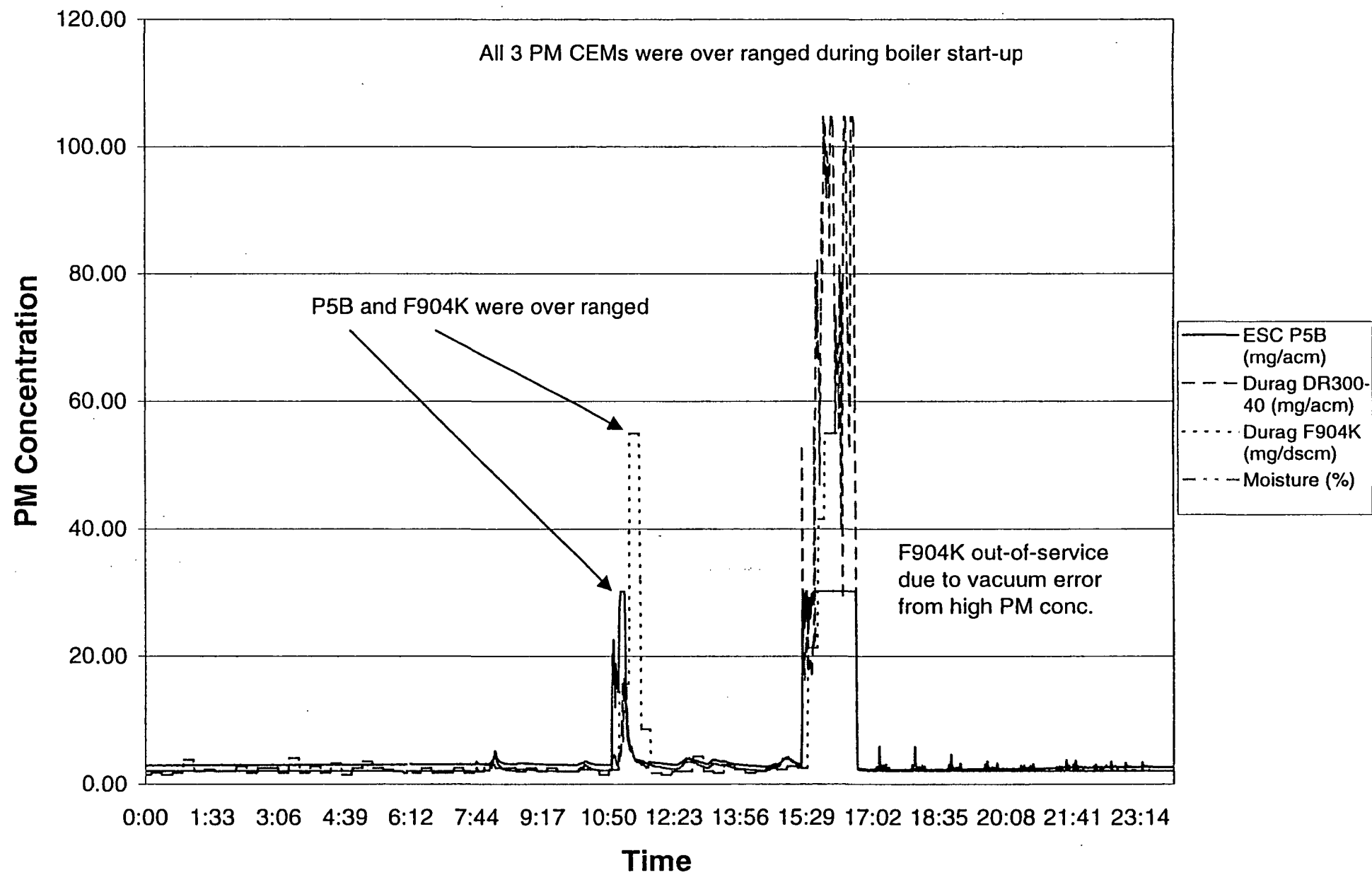
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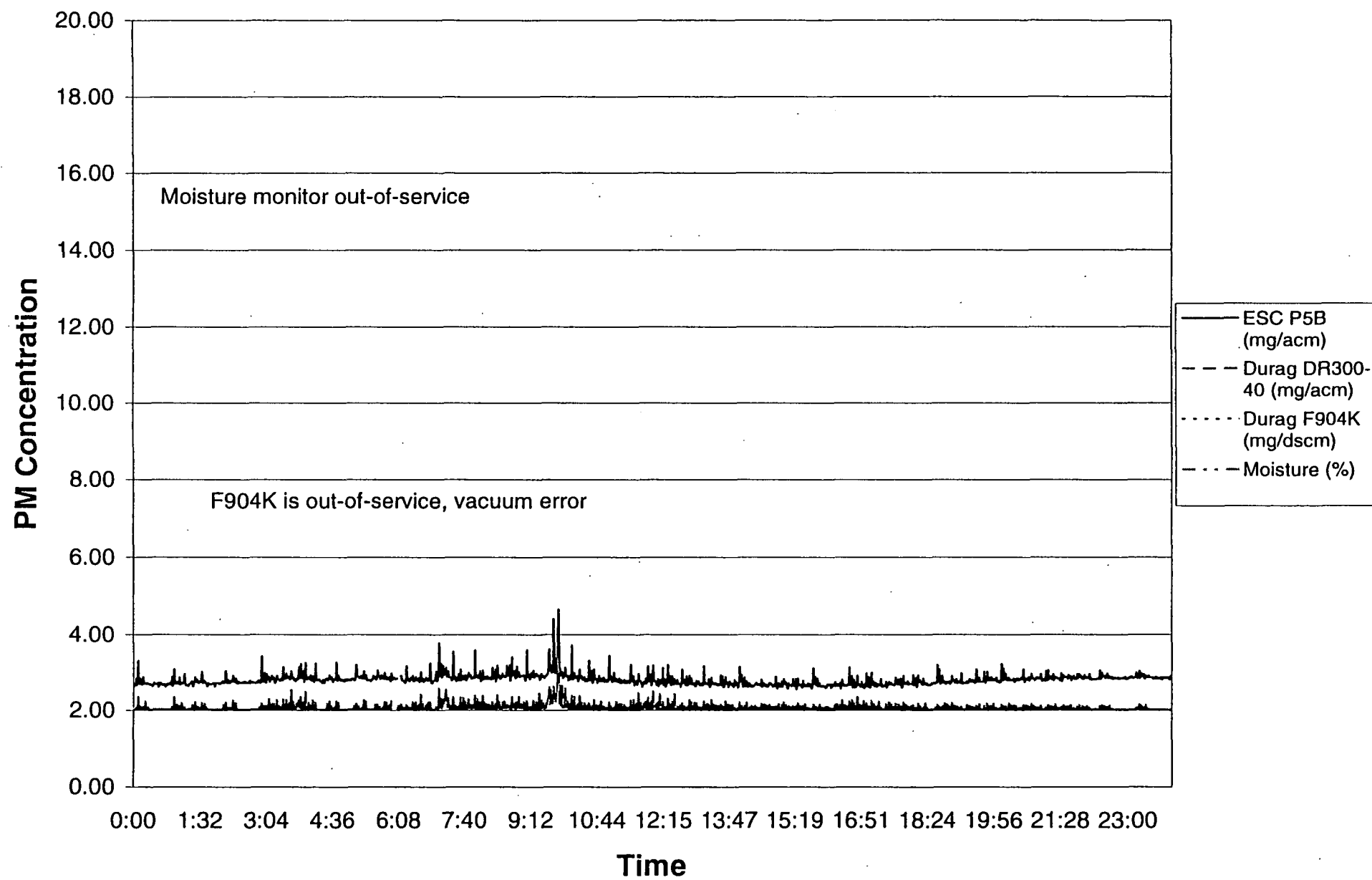
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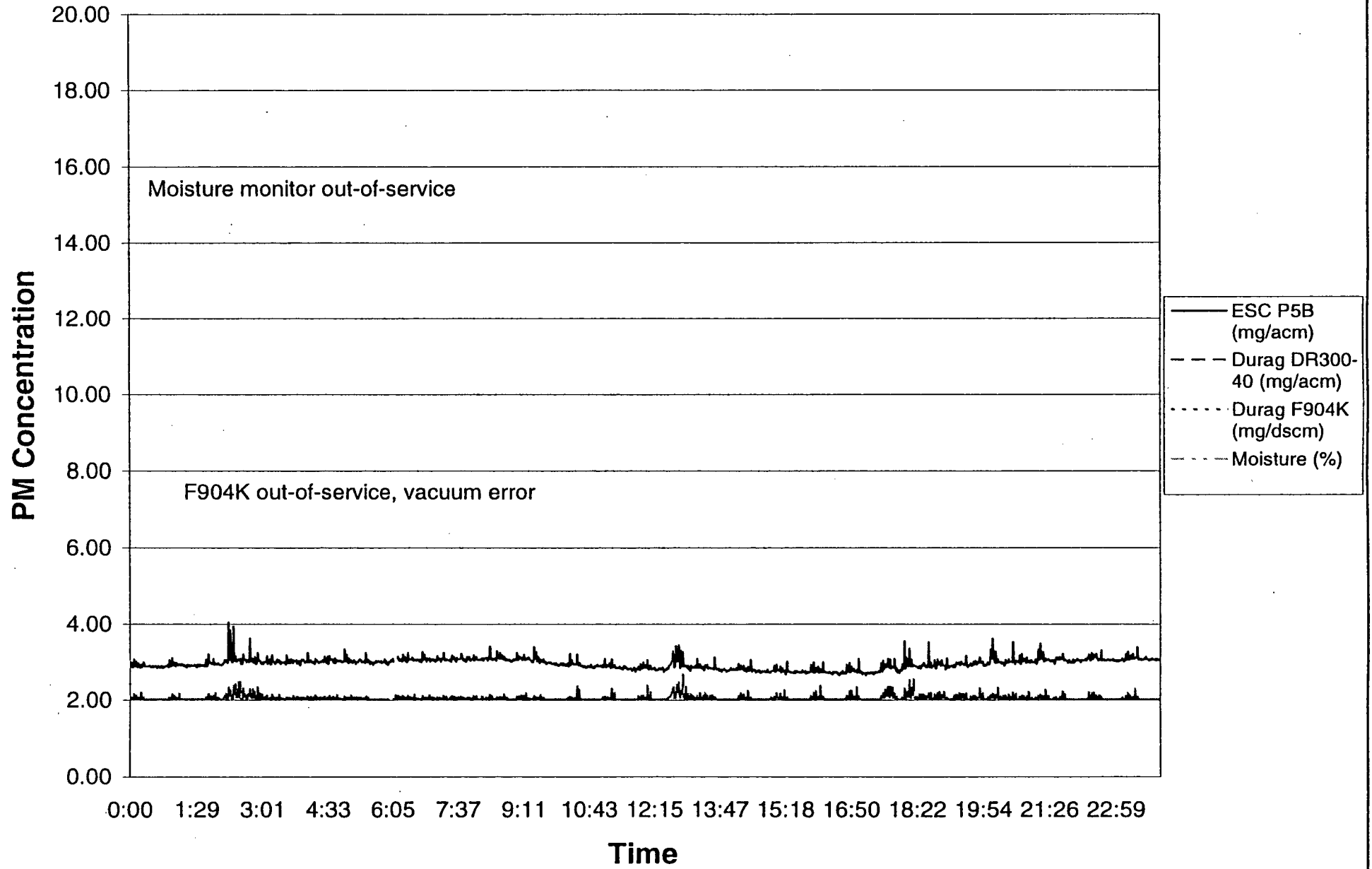
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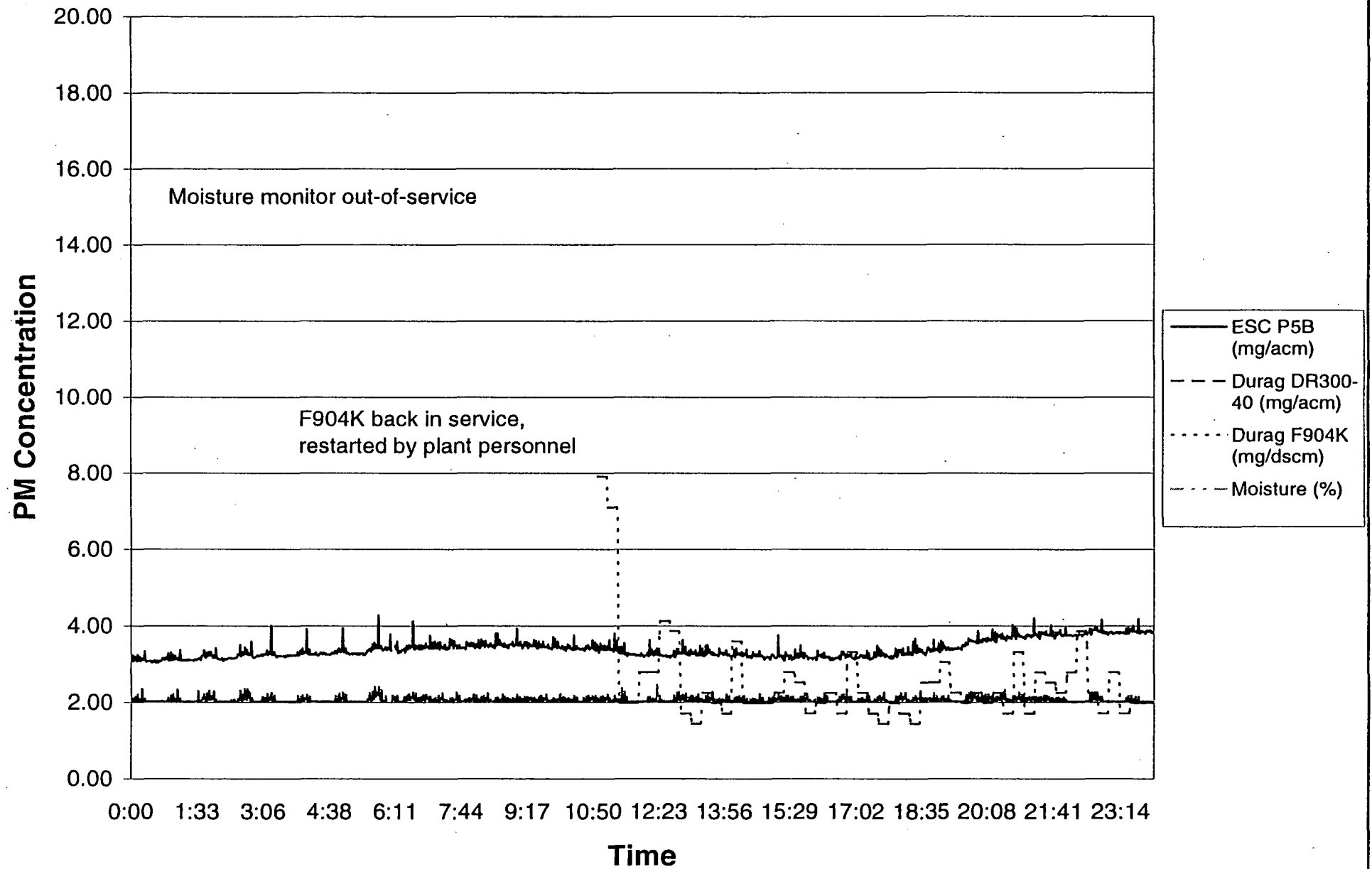
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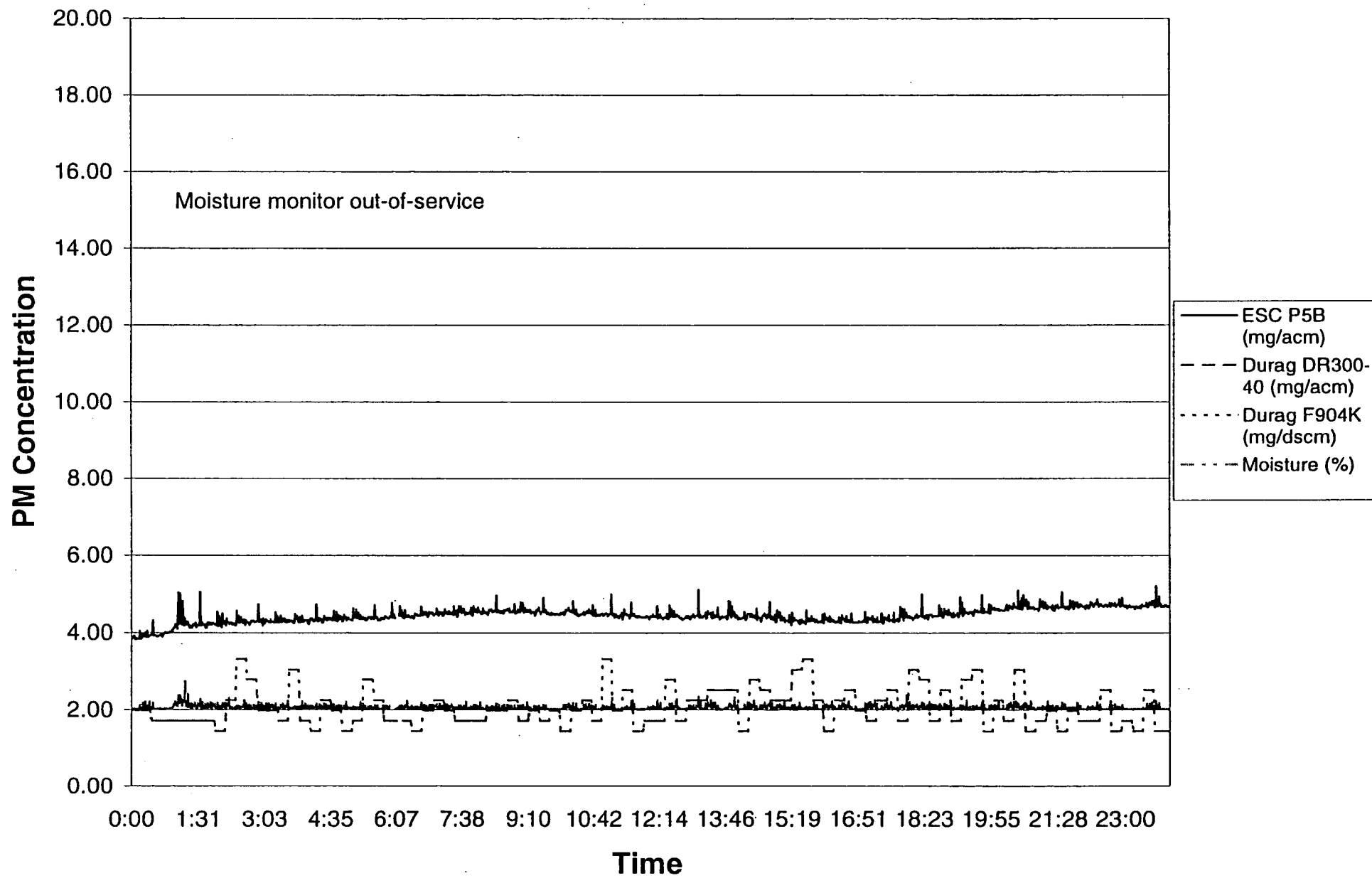
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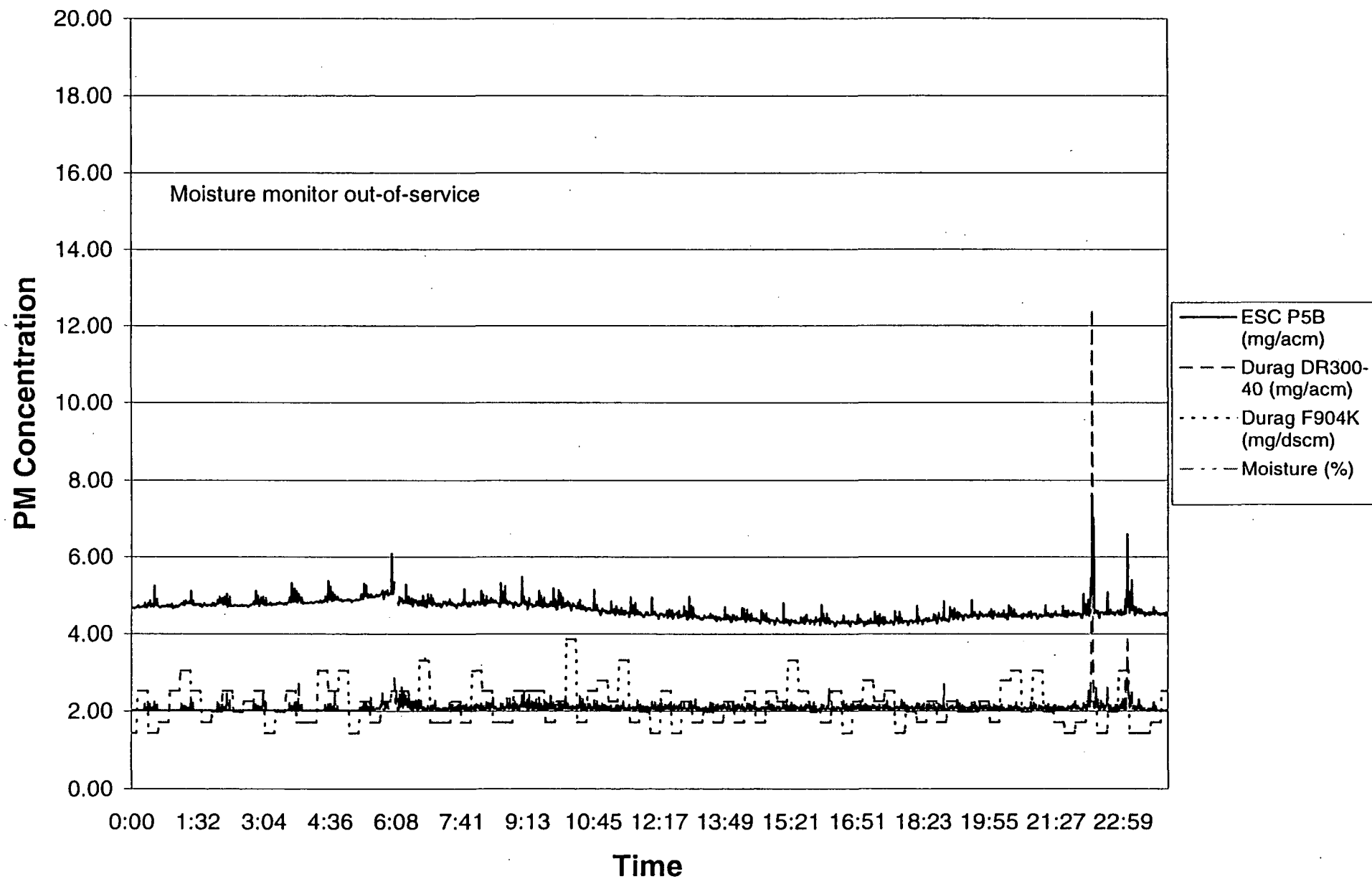
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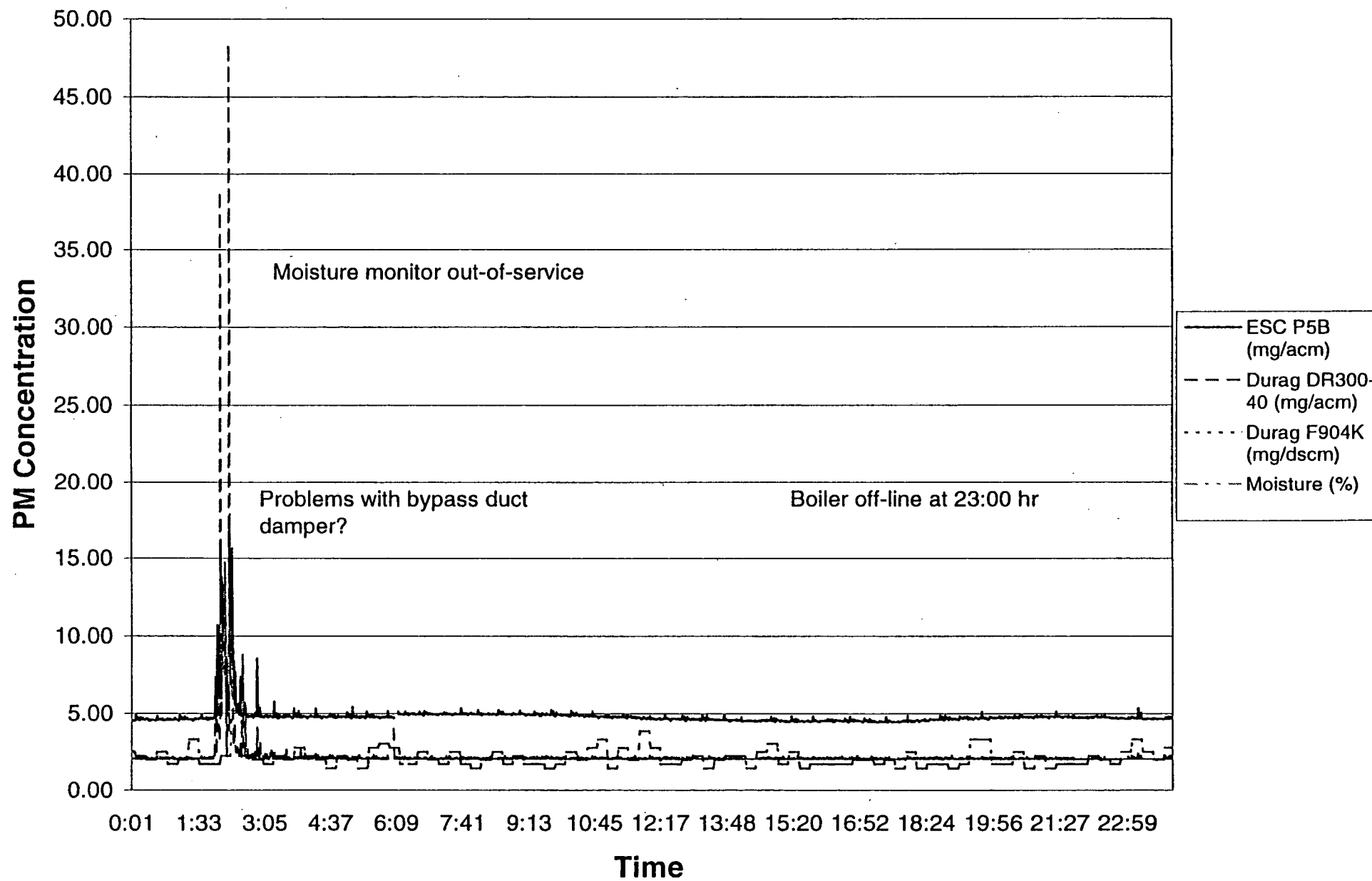
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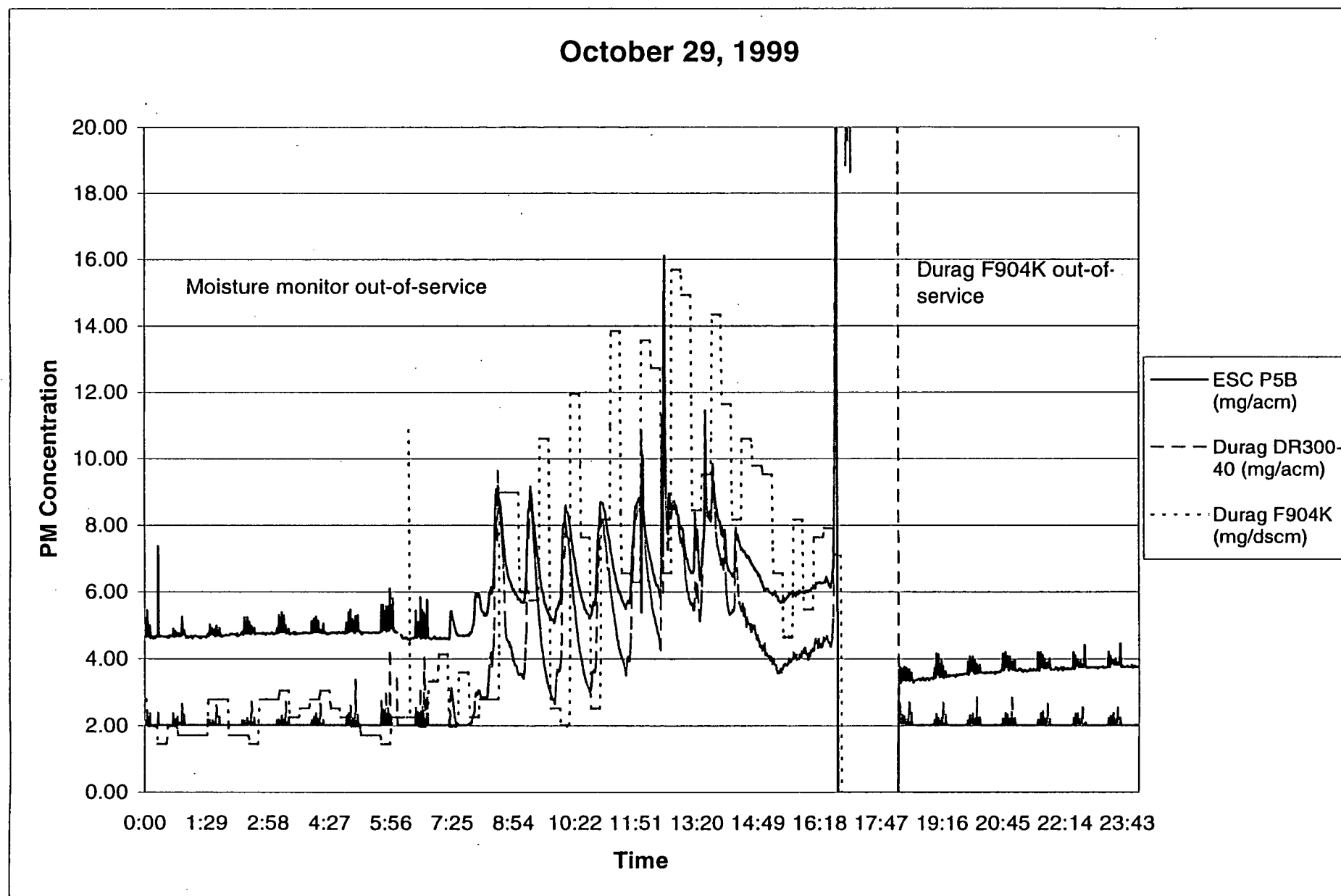


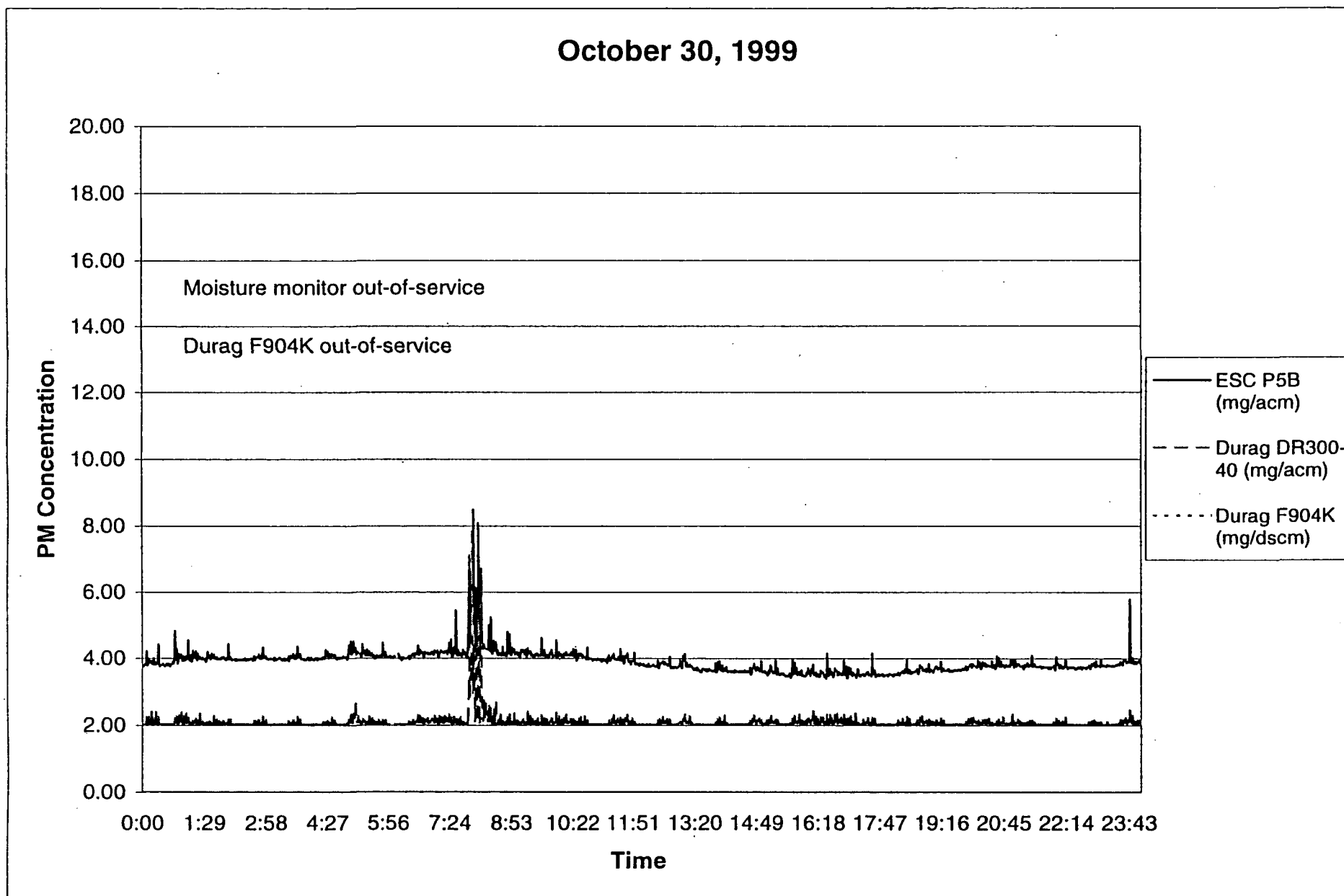
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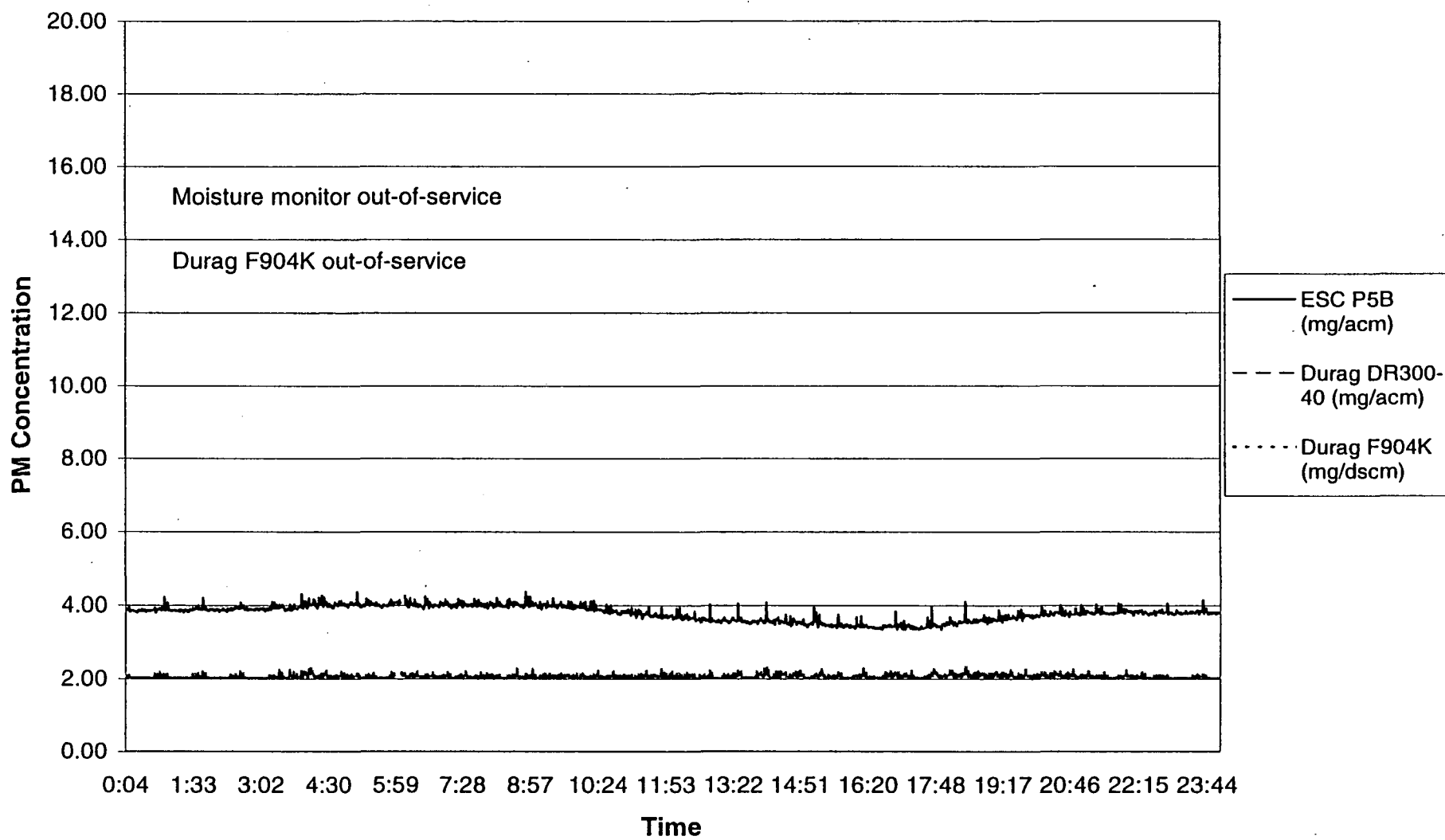
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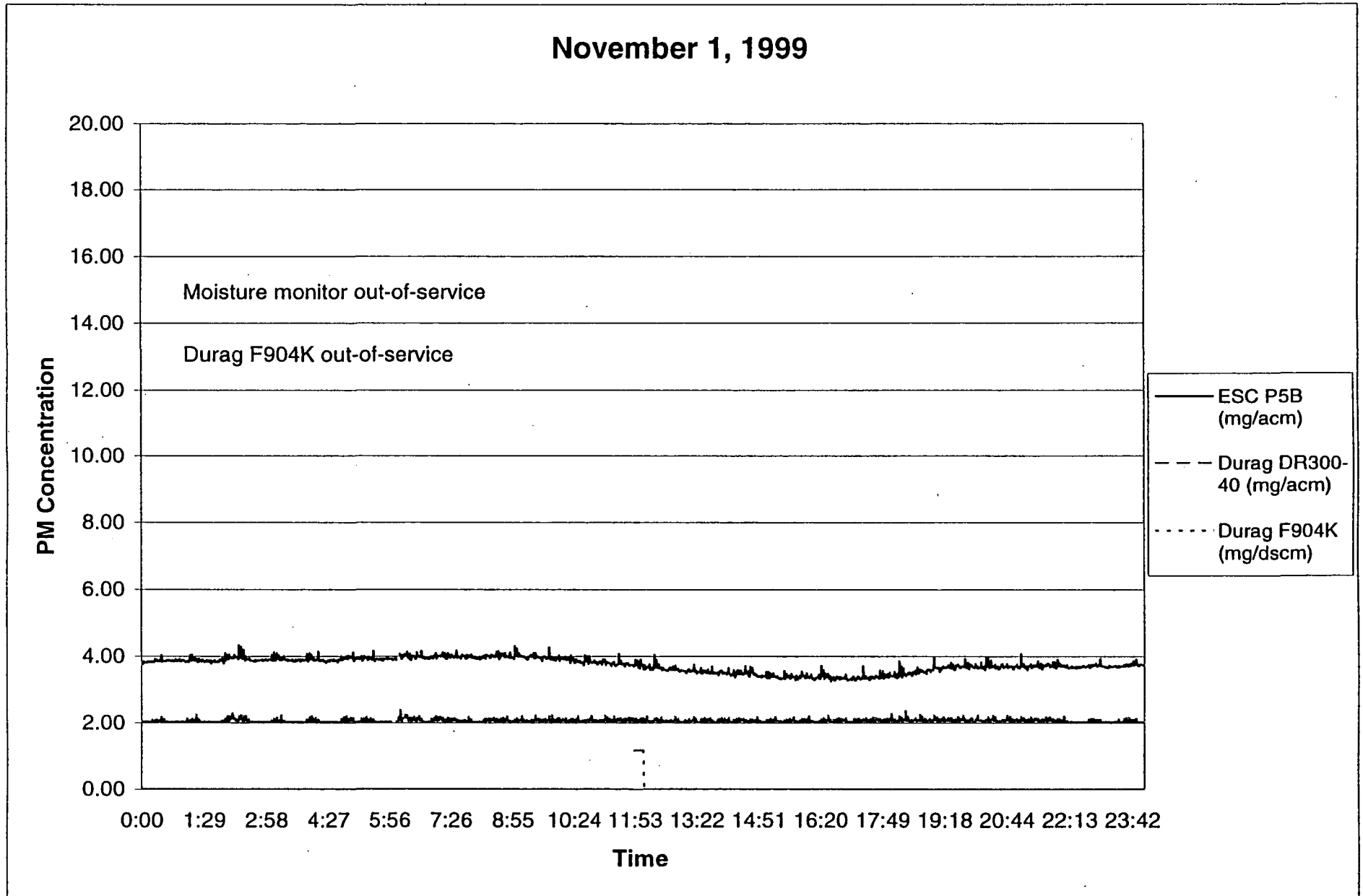


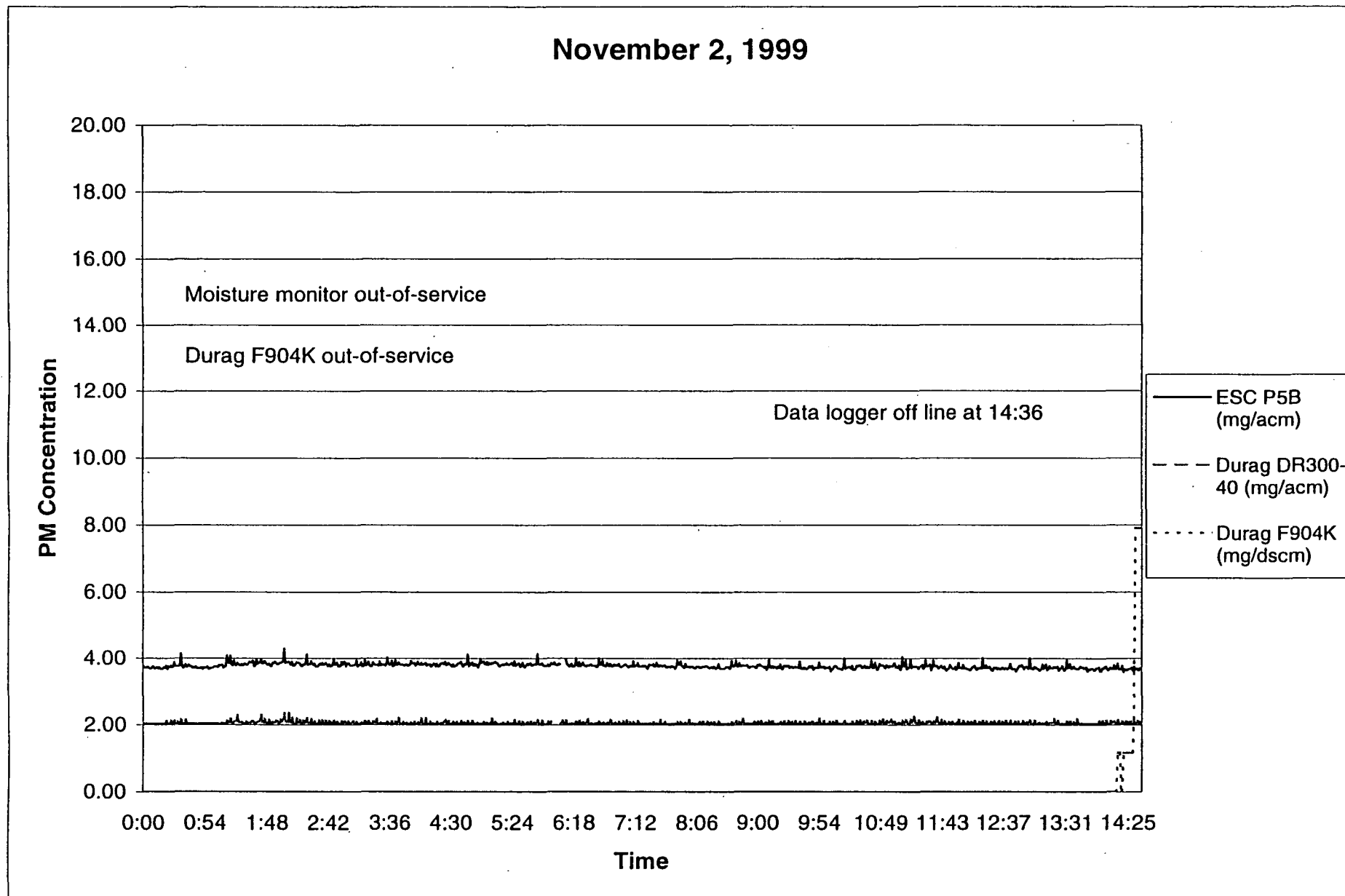




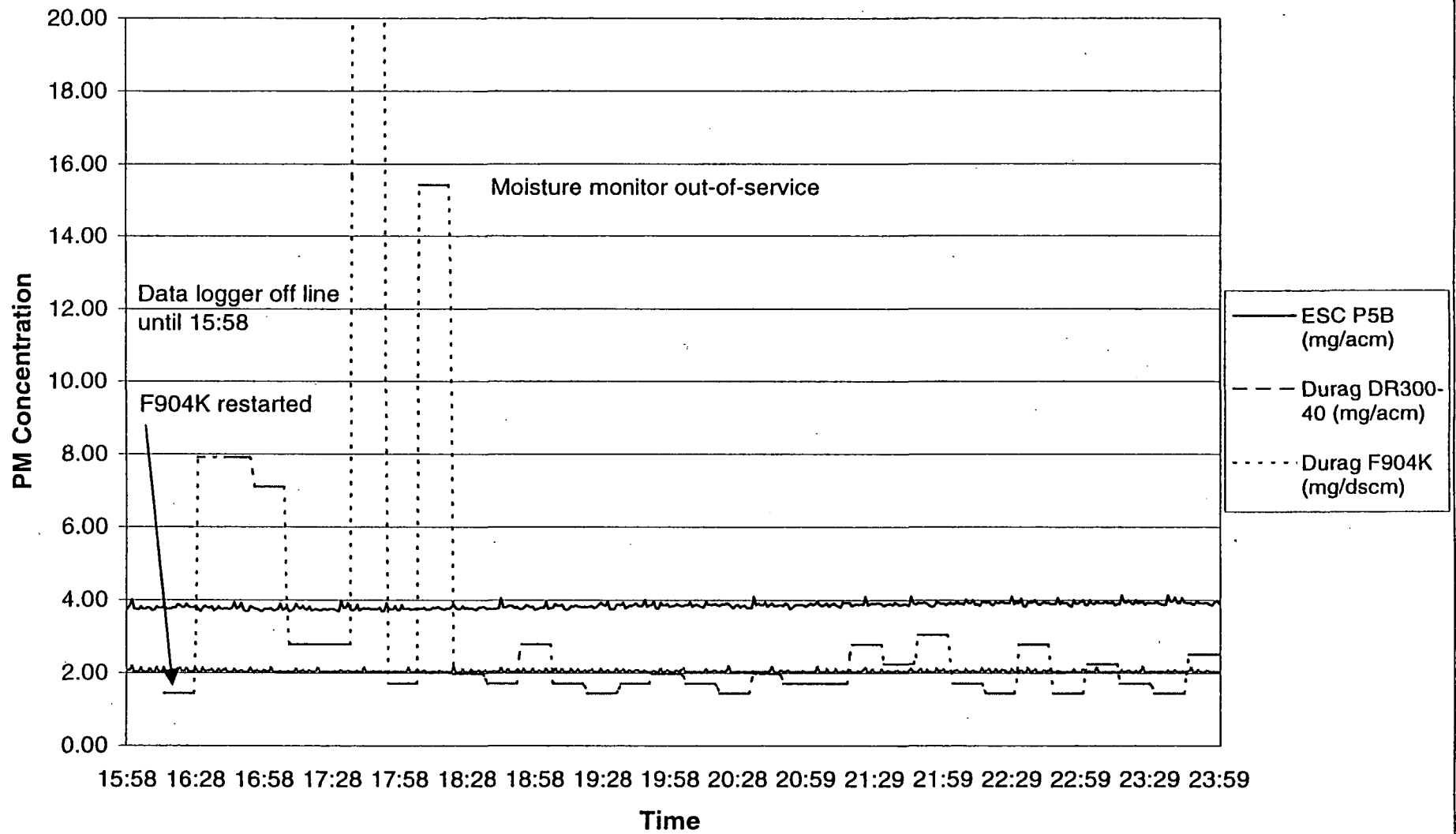
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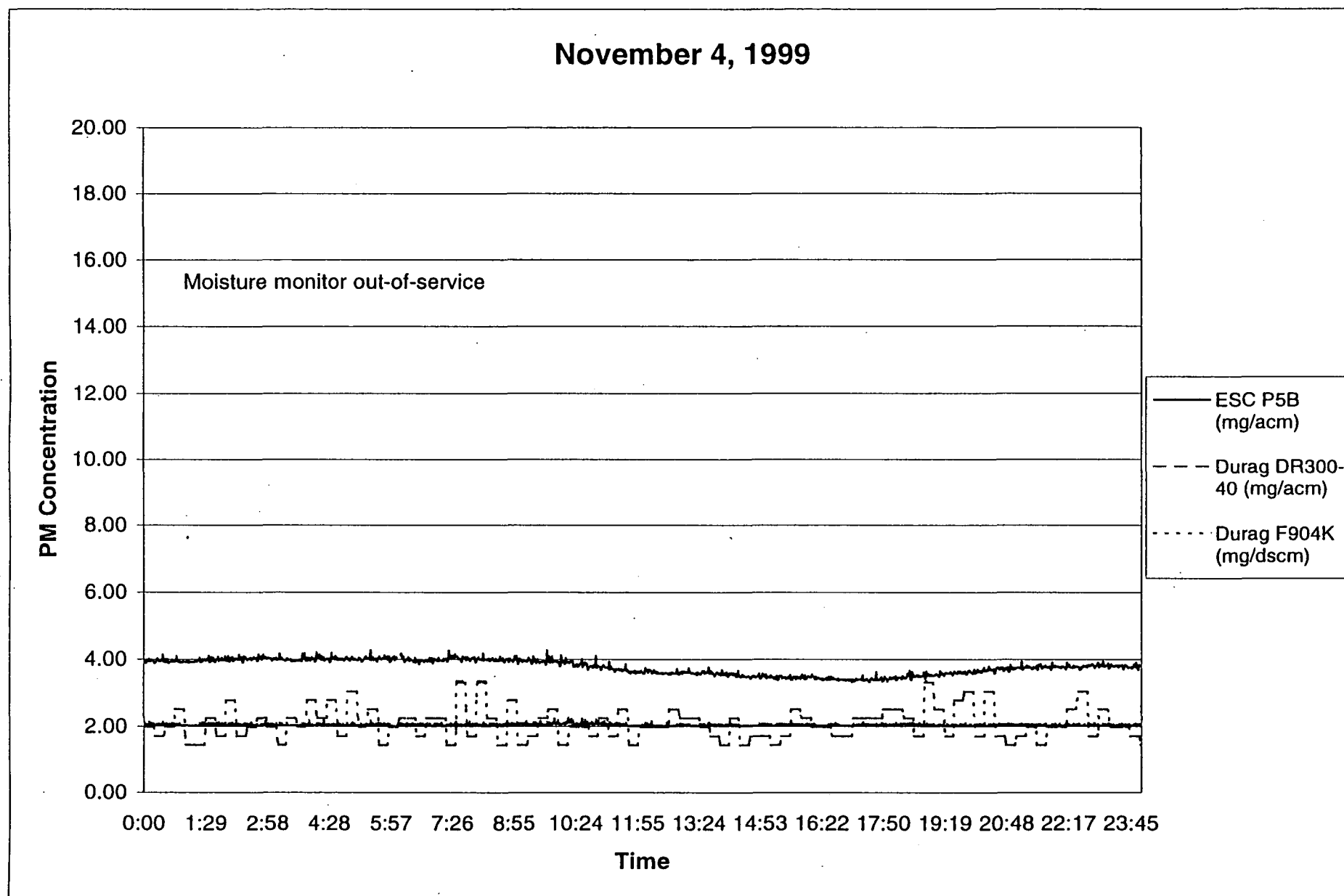




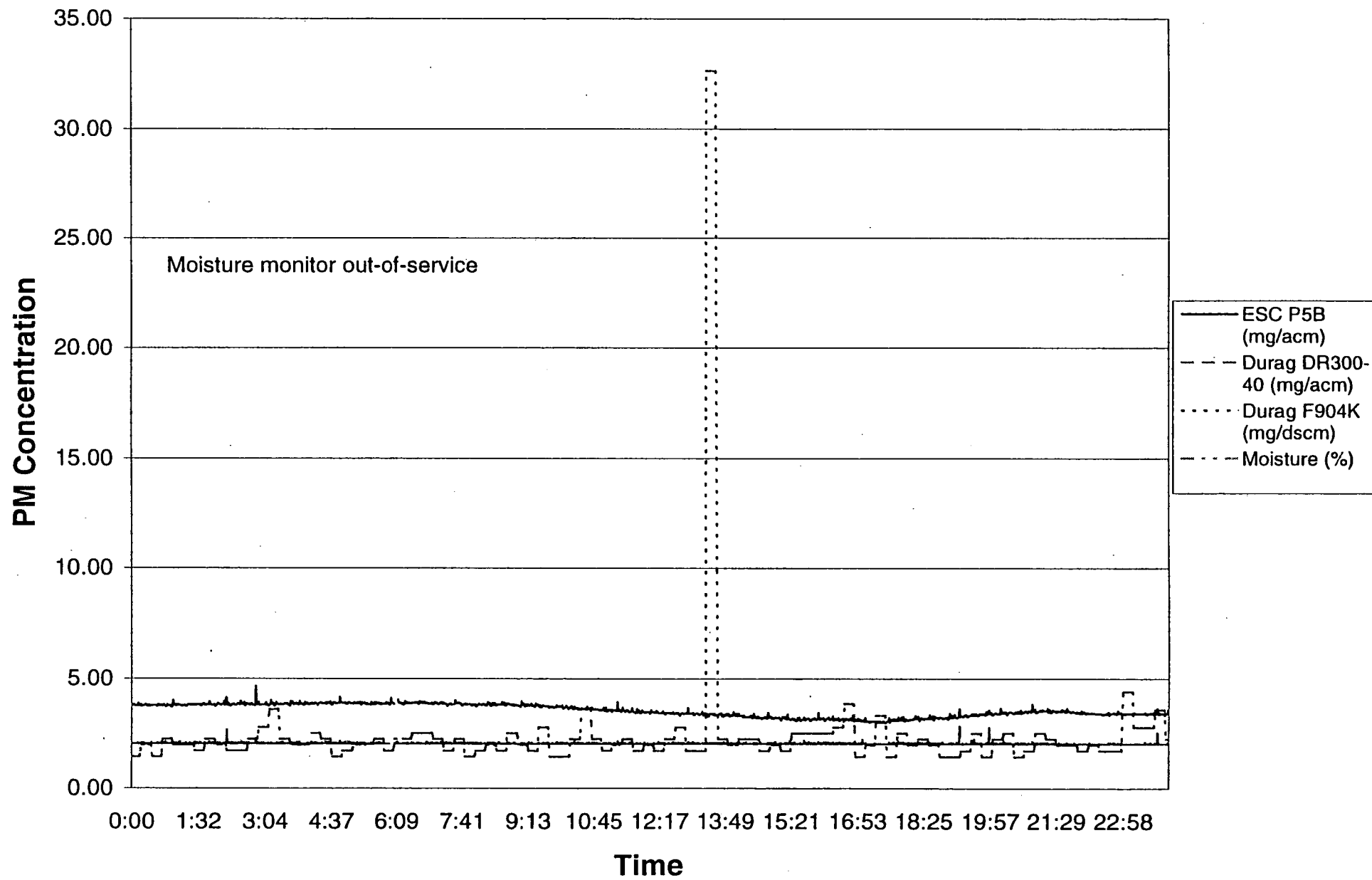


November 3, 1999

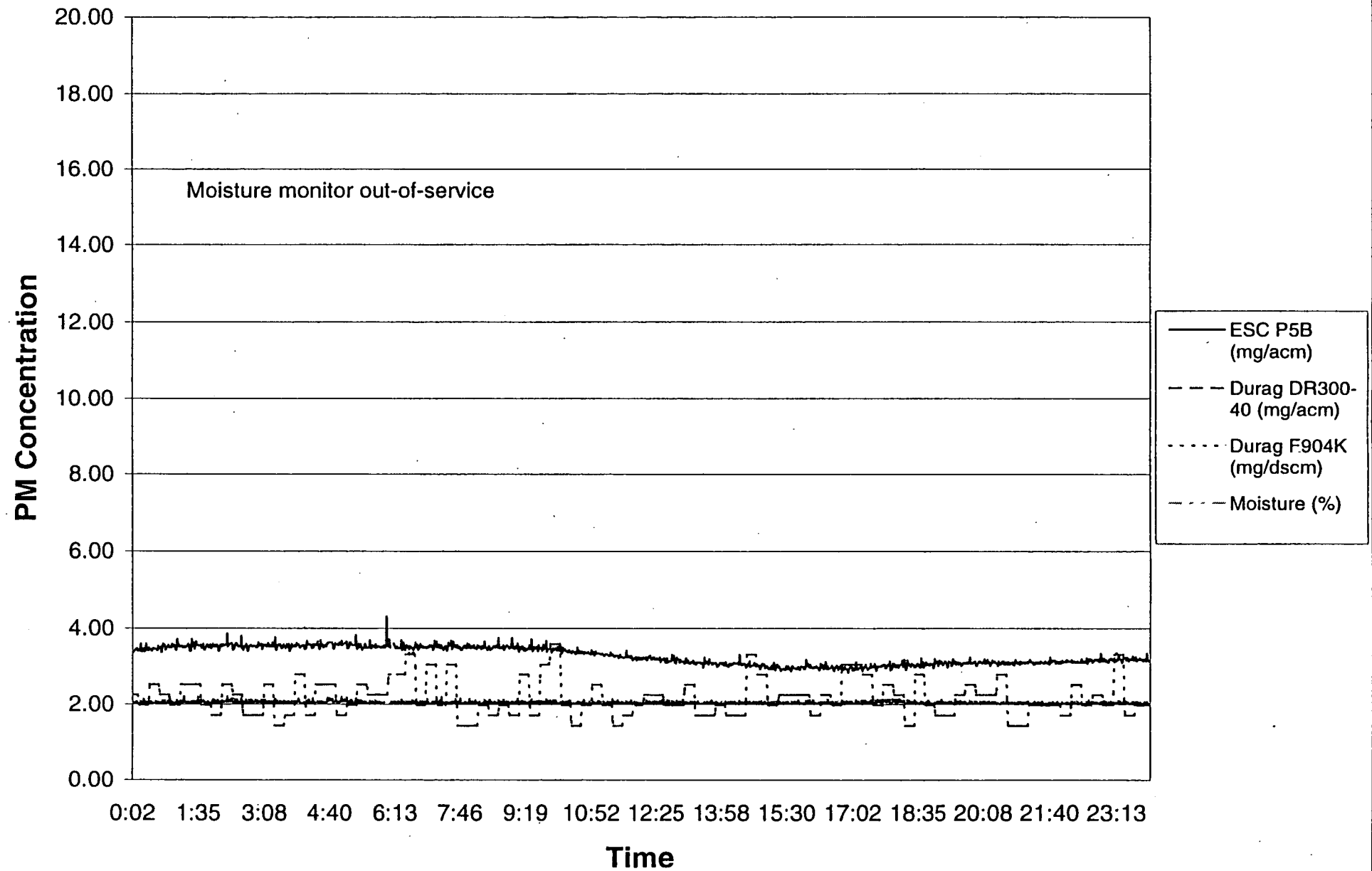




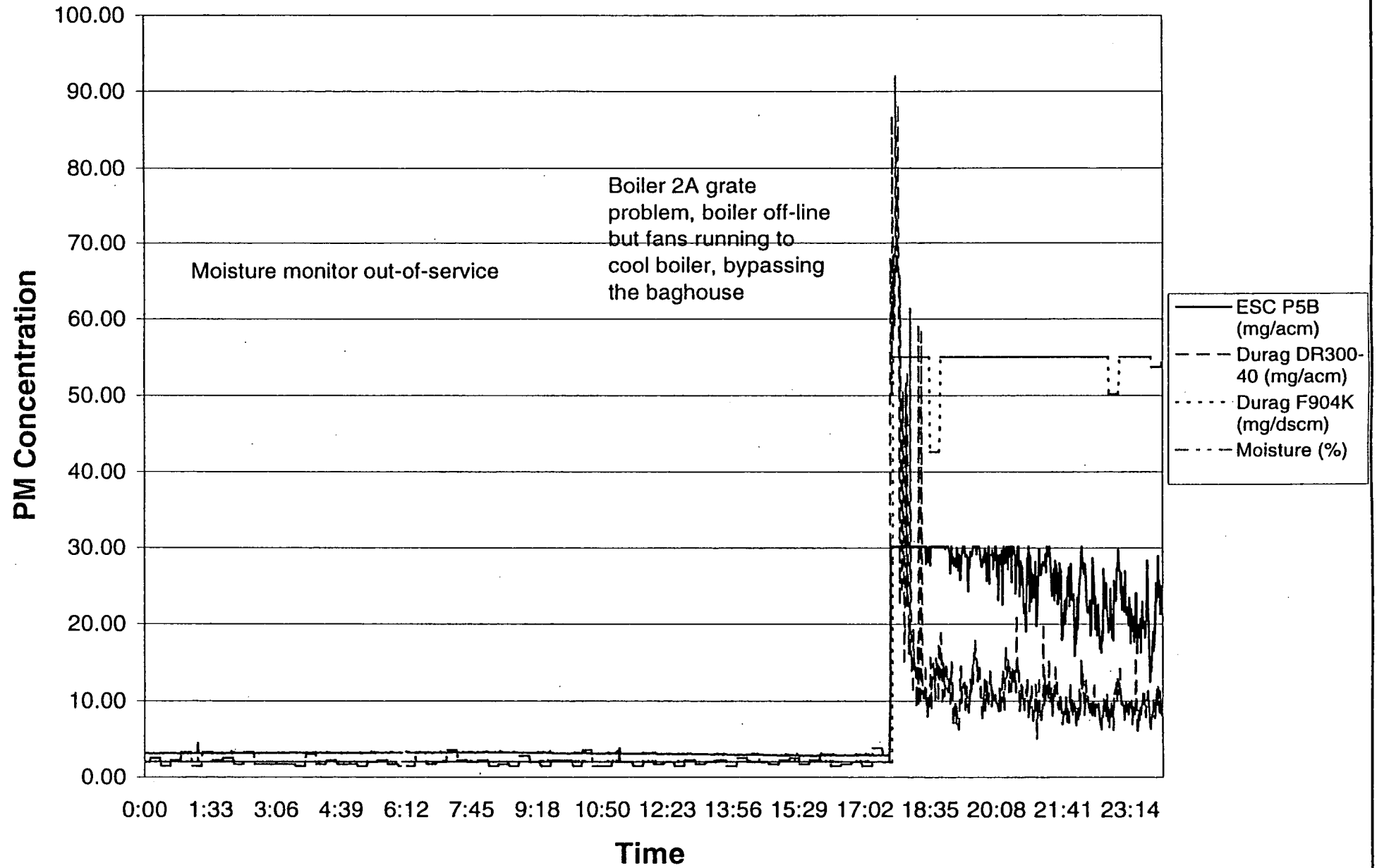
November 5, 1999



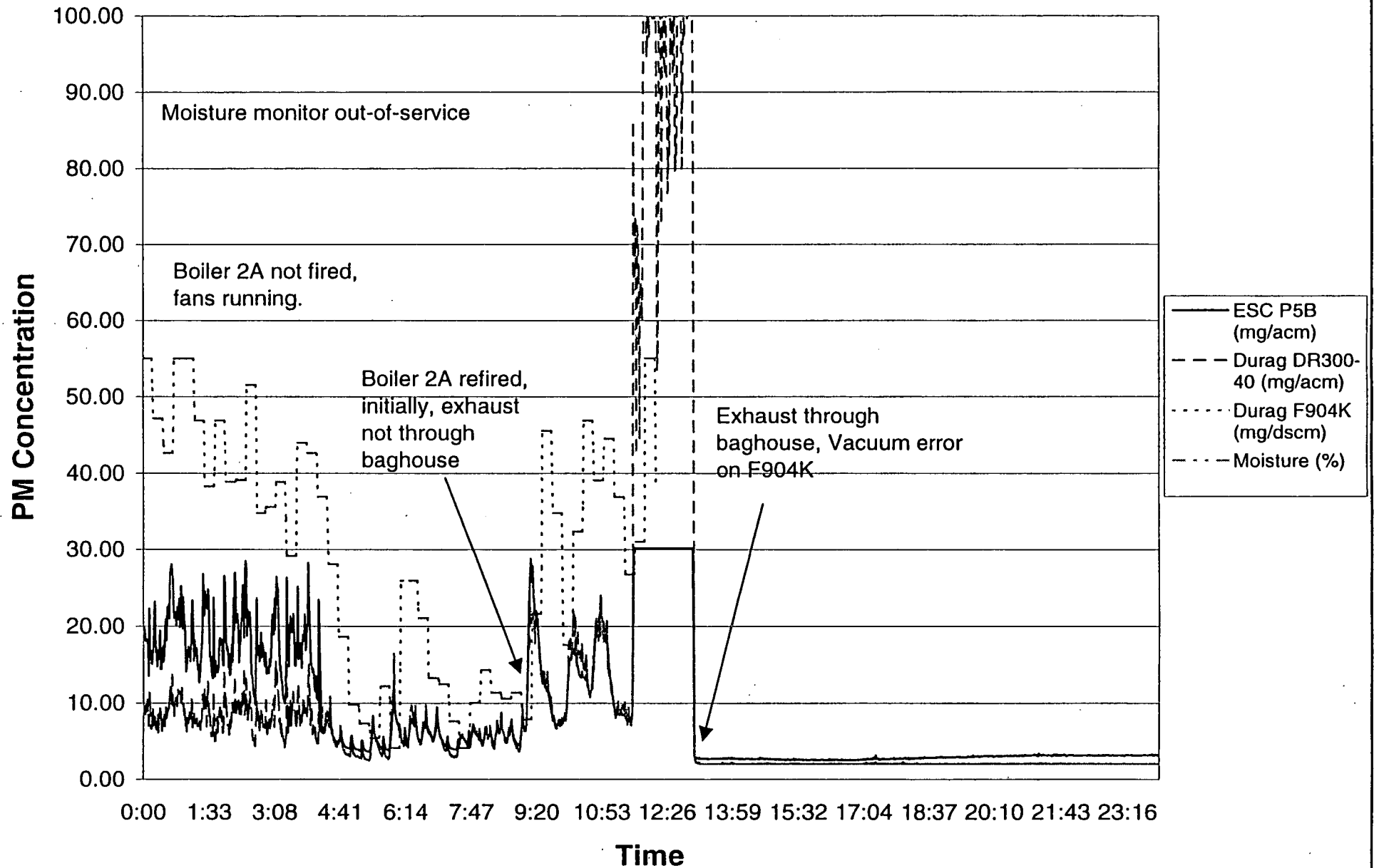
November 6, 1999



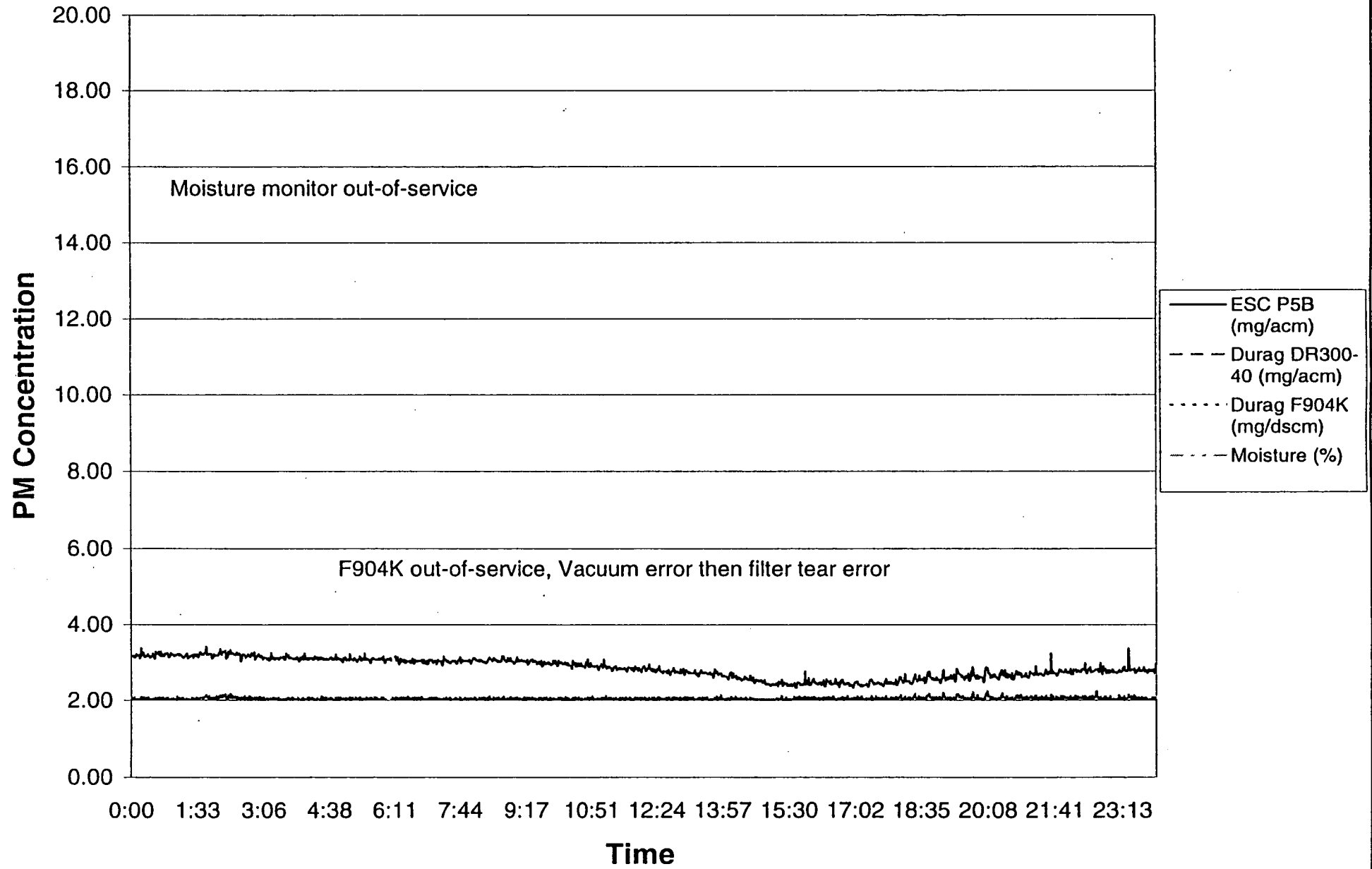
November 7, 1999



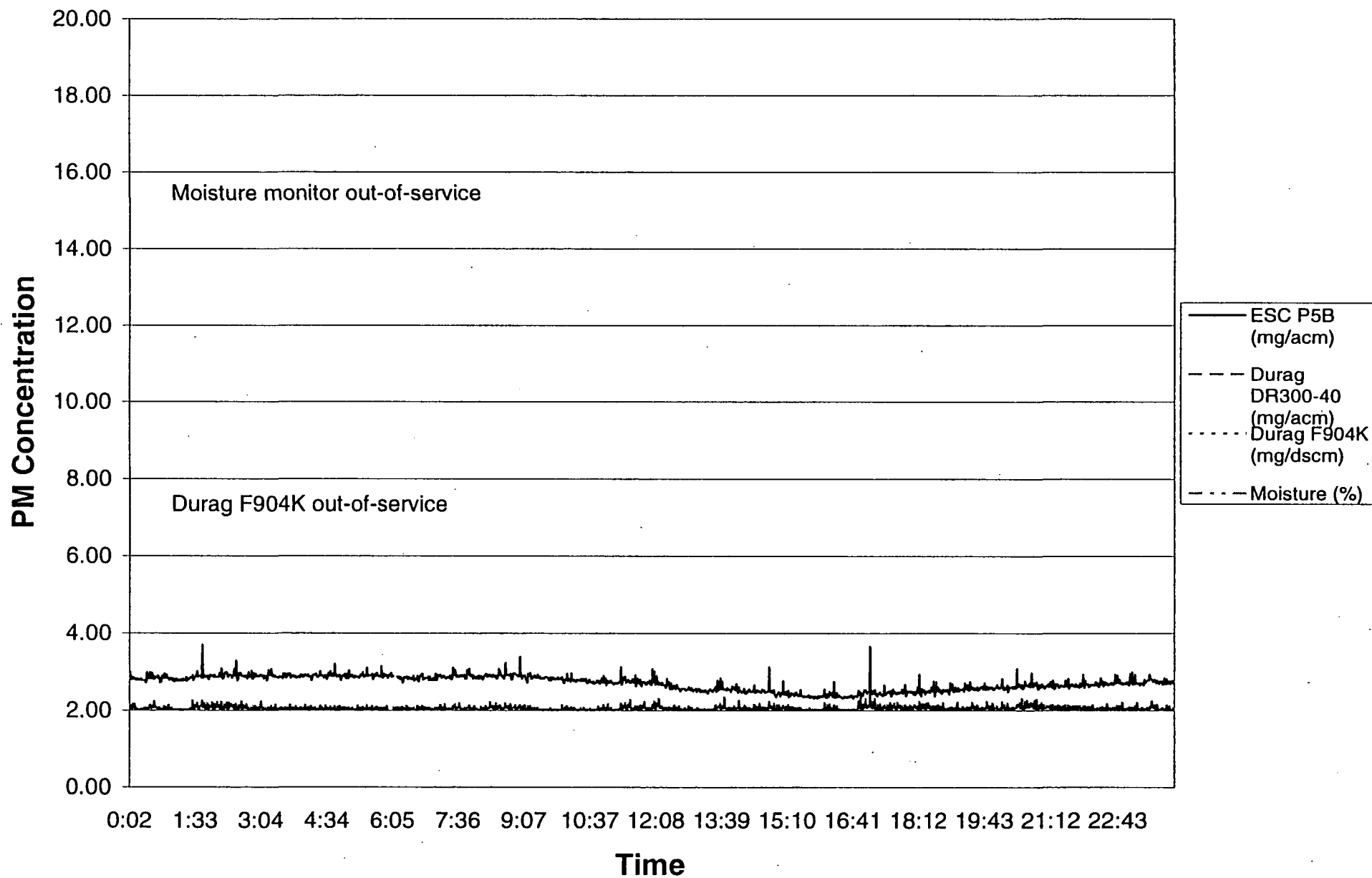
November 8, 1999



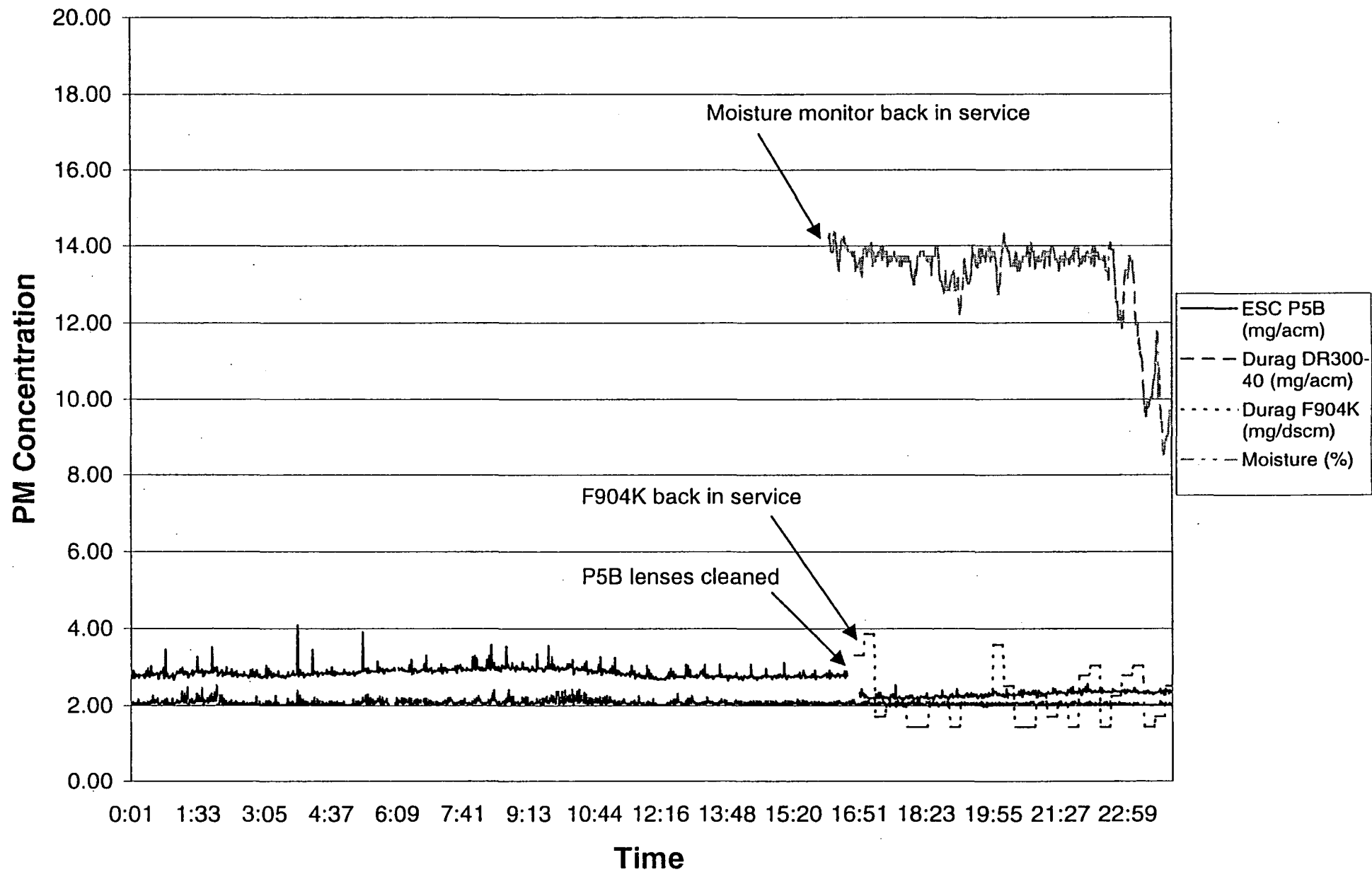
November 9, 1999



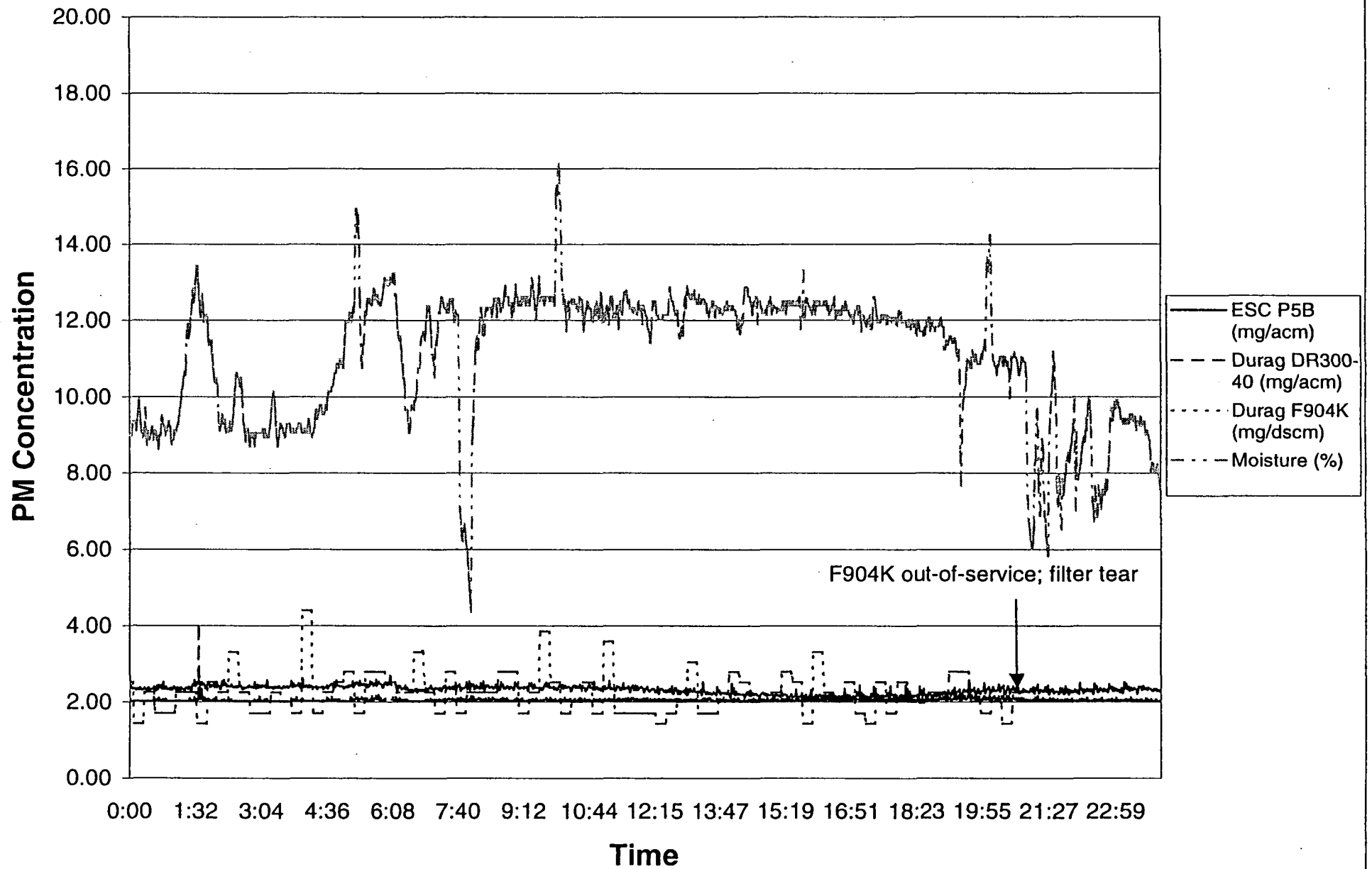
November 10, 1999



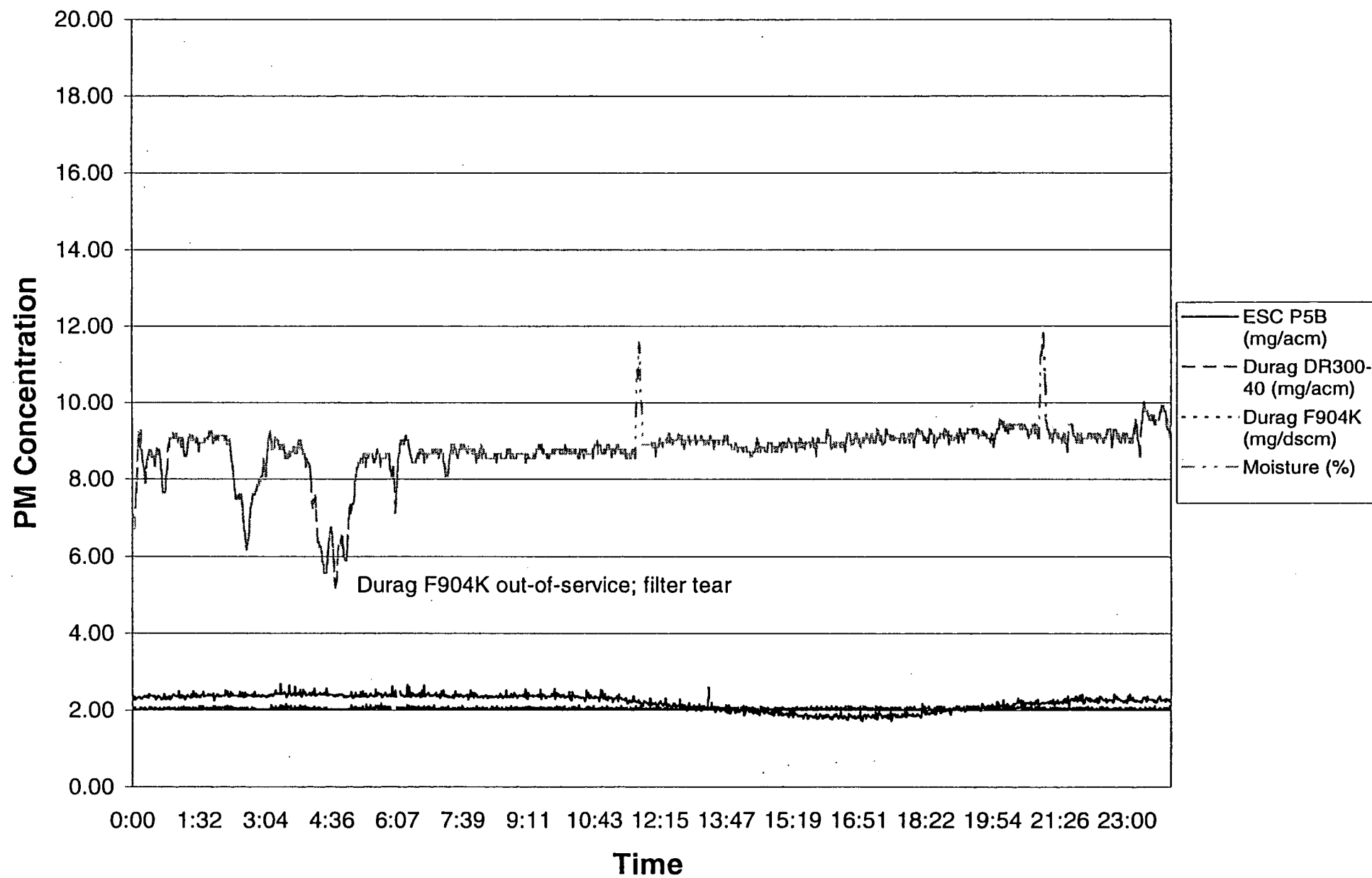
November 11, 1999



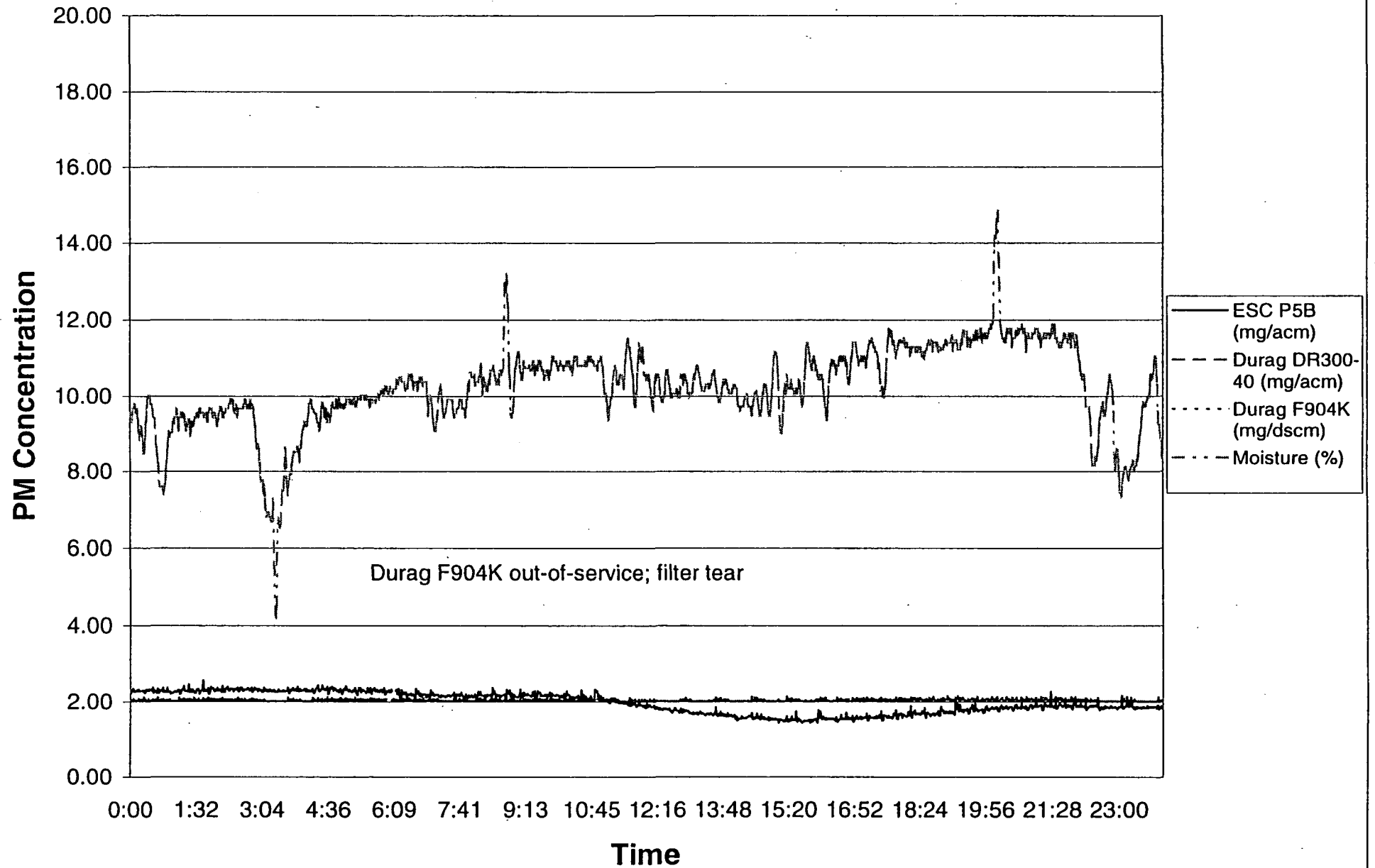
November 12, 1999



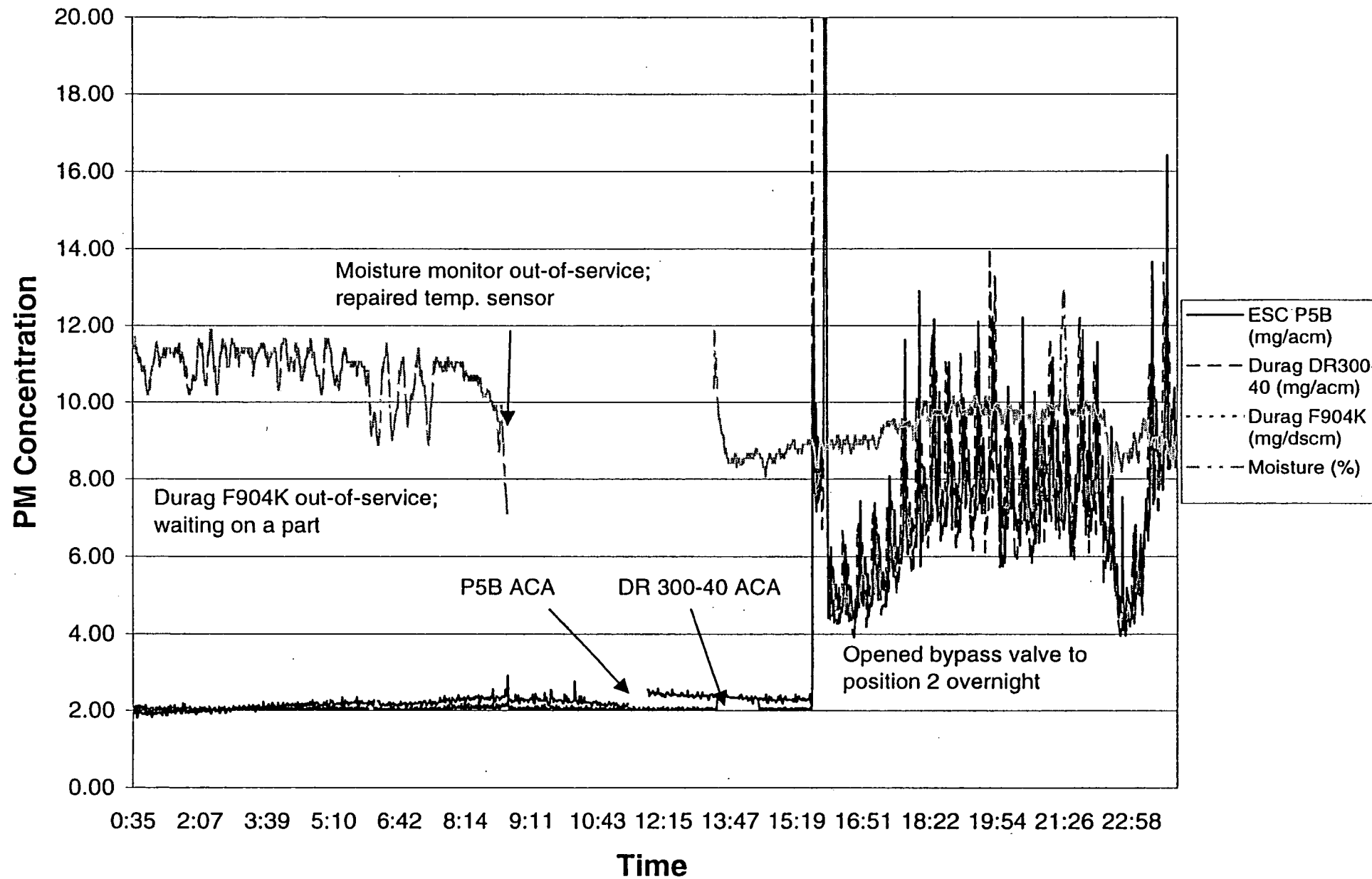
November 13, 1999



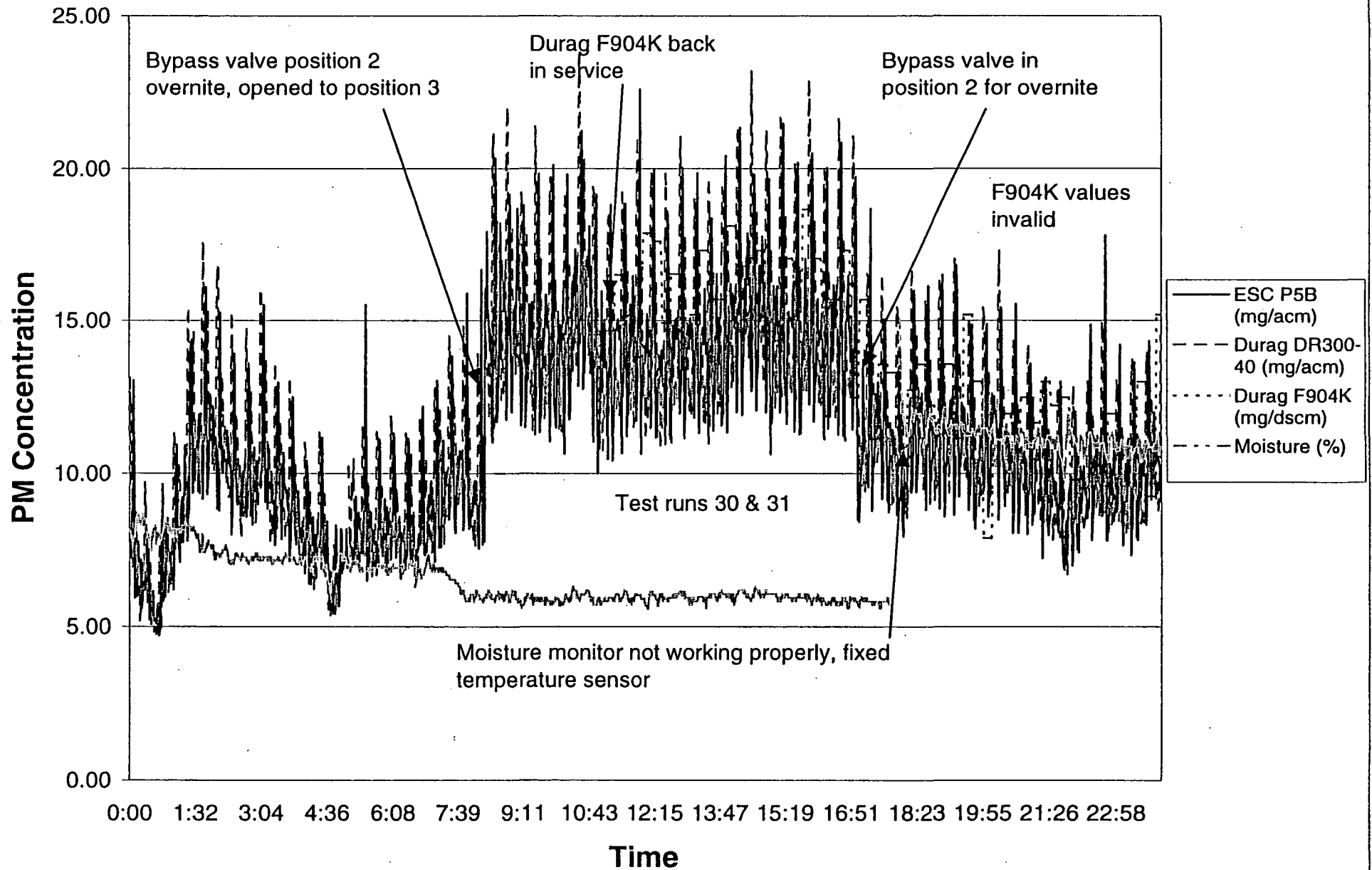
November 14, 1999

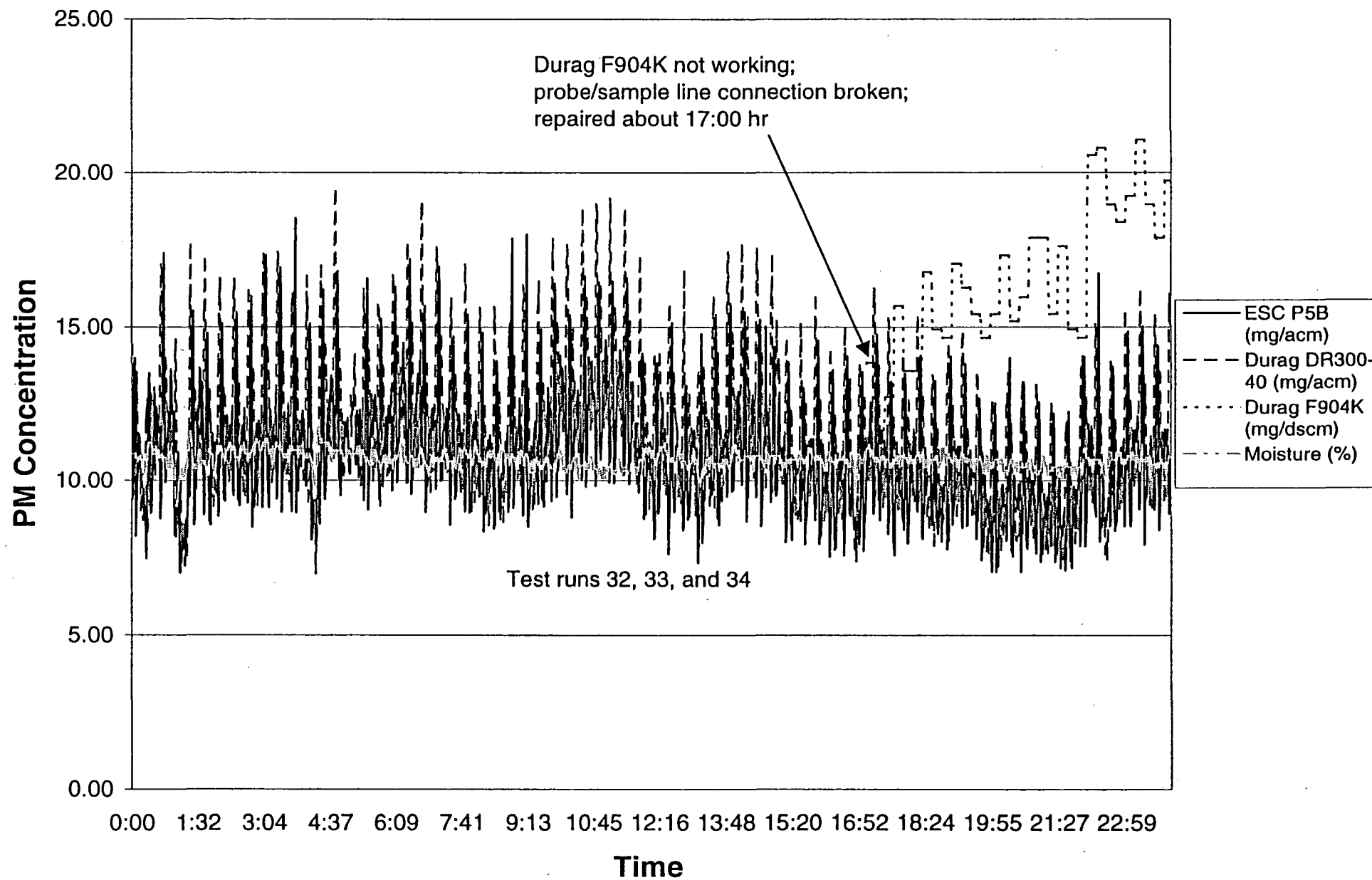


November 15, 1999

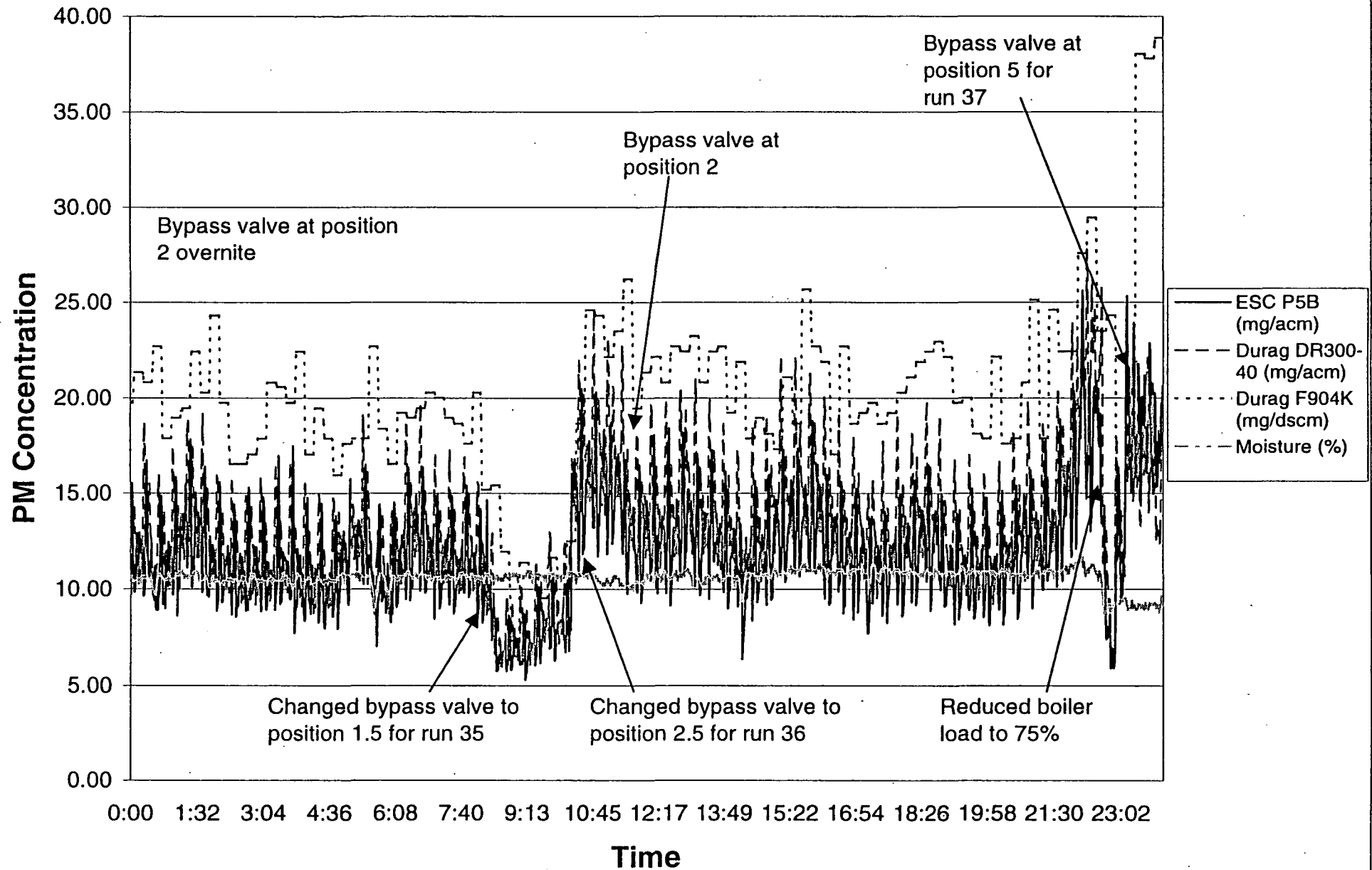


November 16, 1999

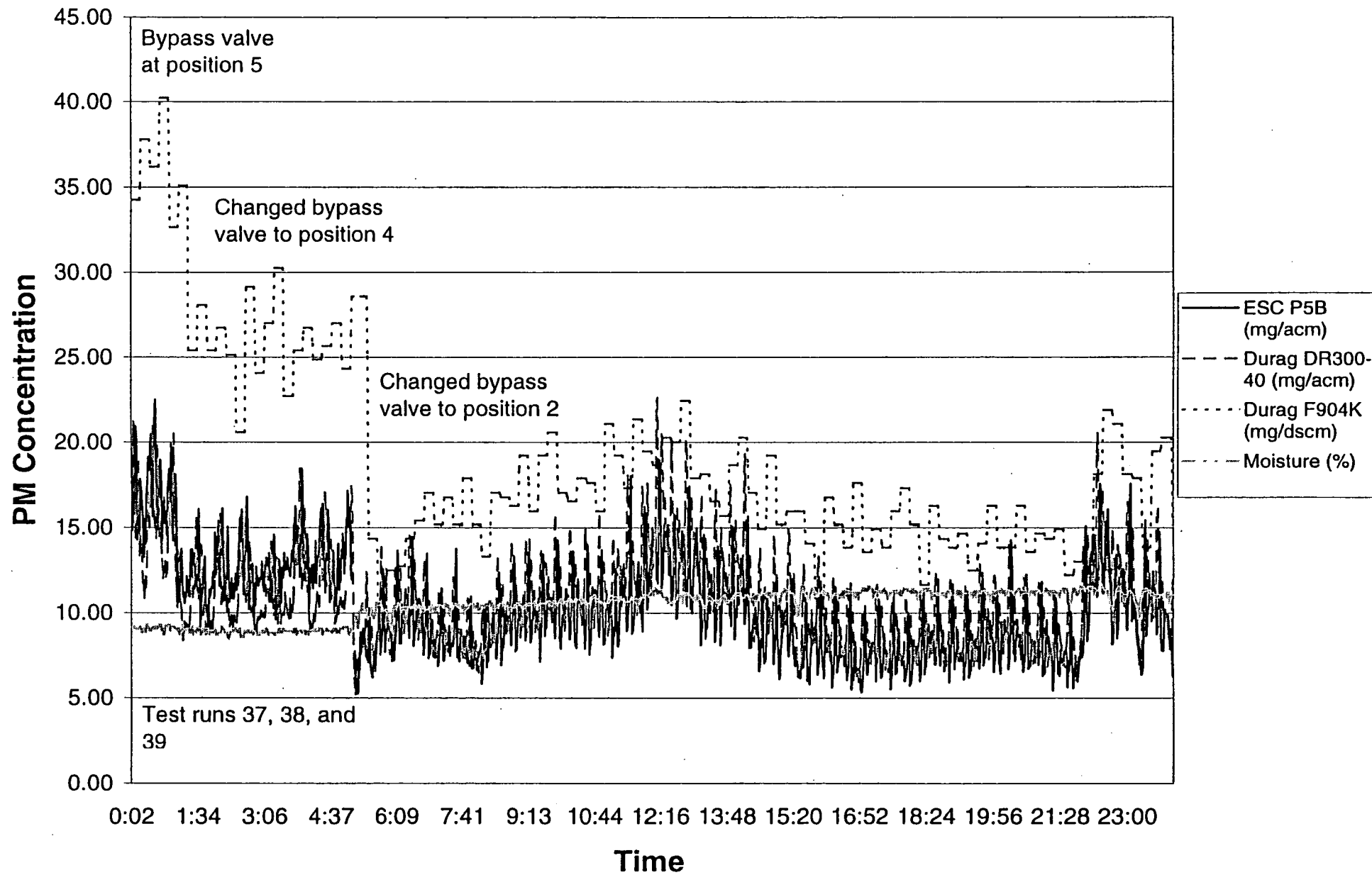


November 17, 1999

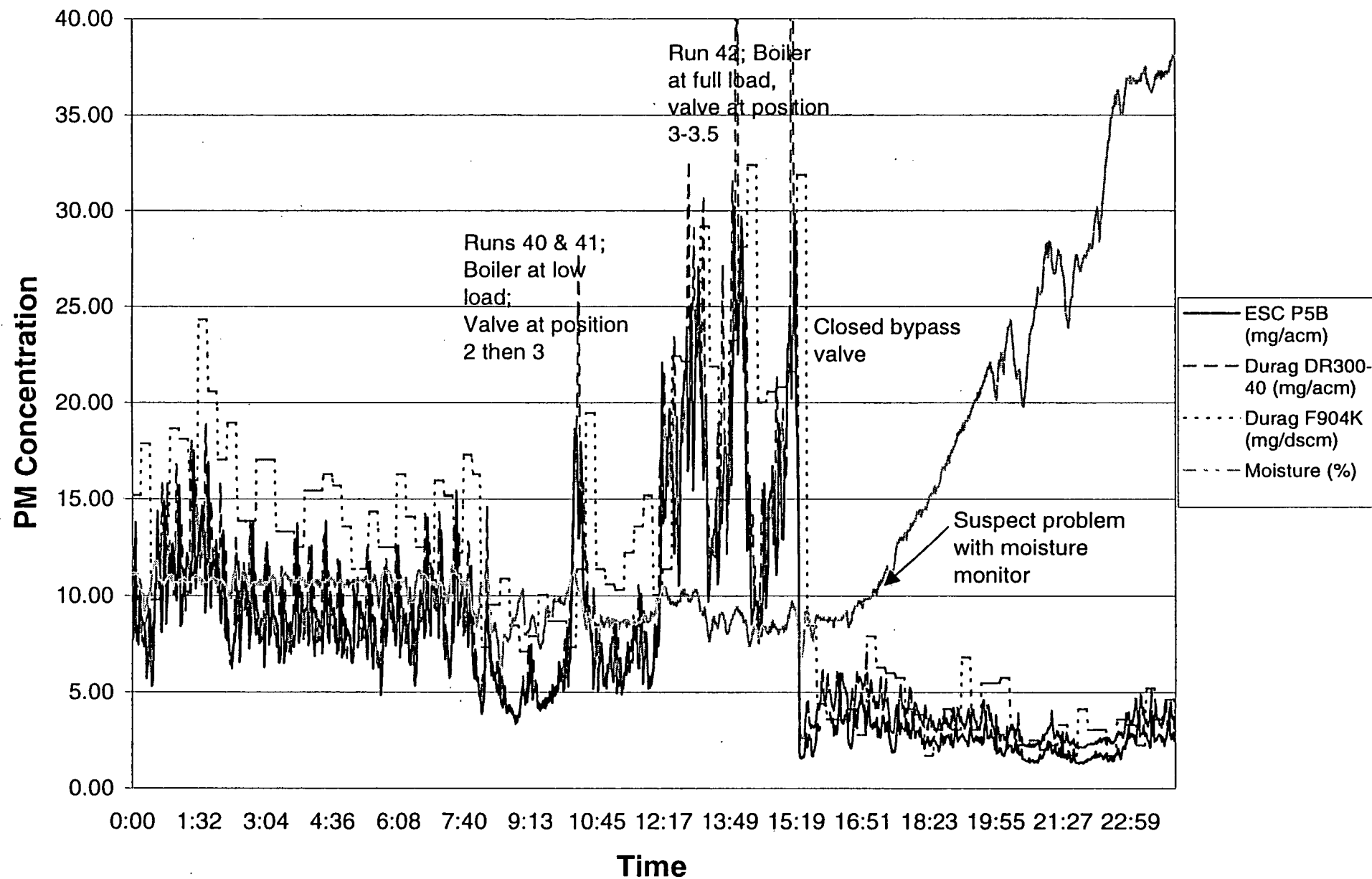
November 18, 1999



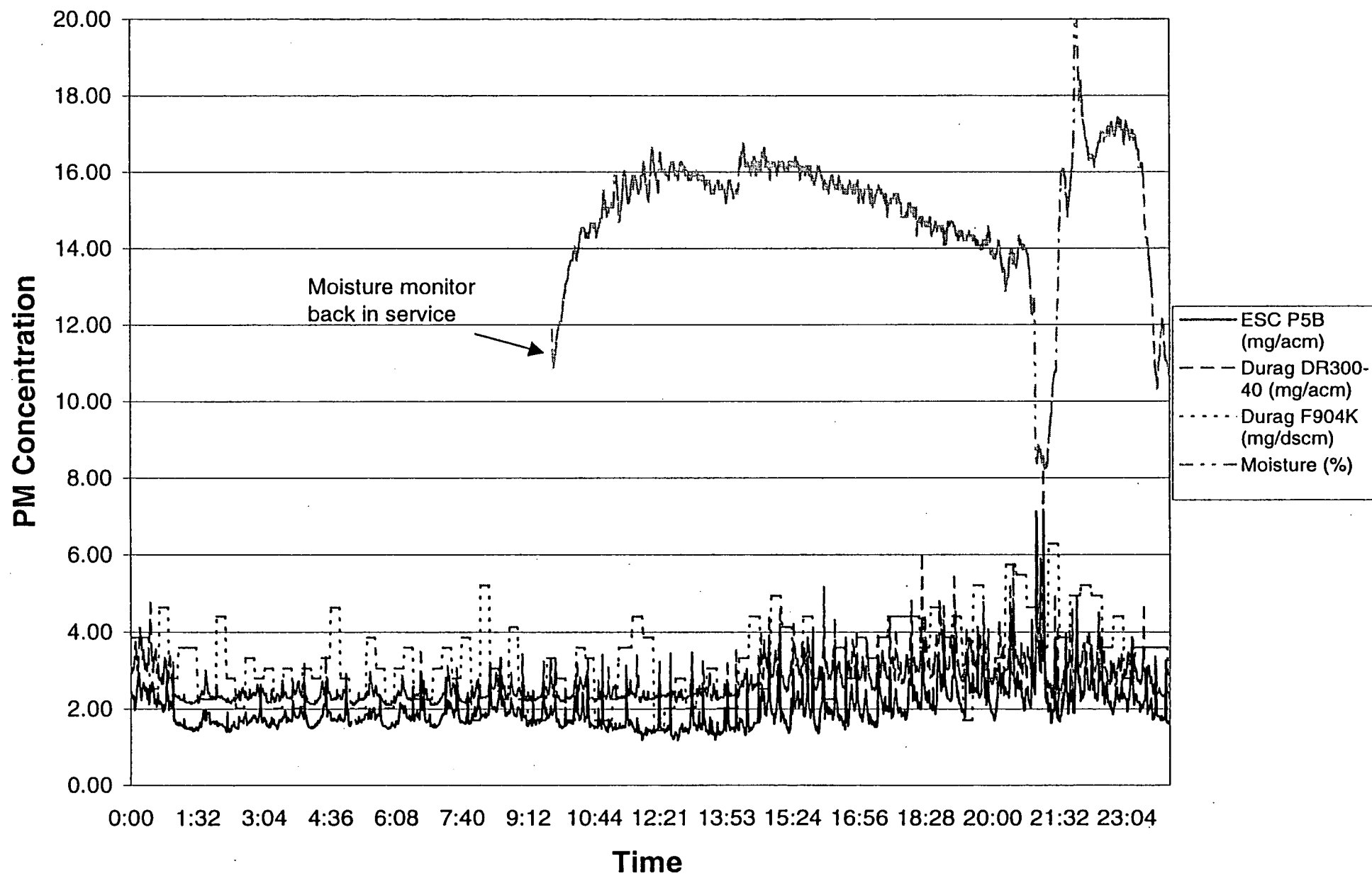
November 19, 1999



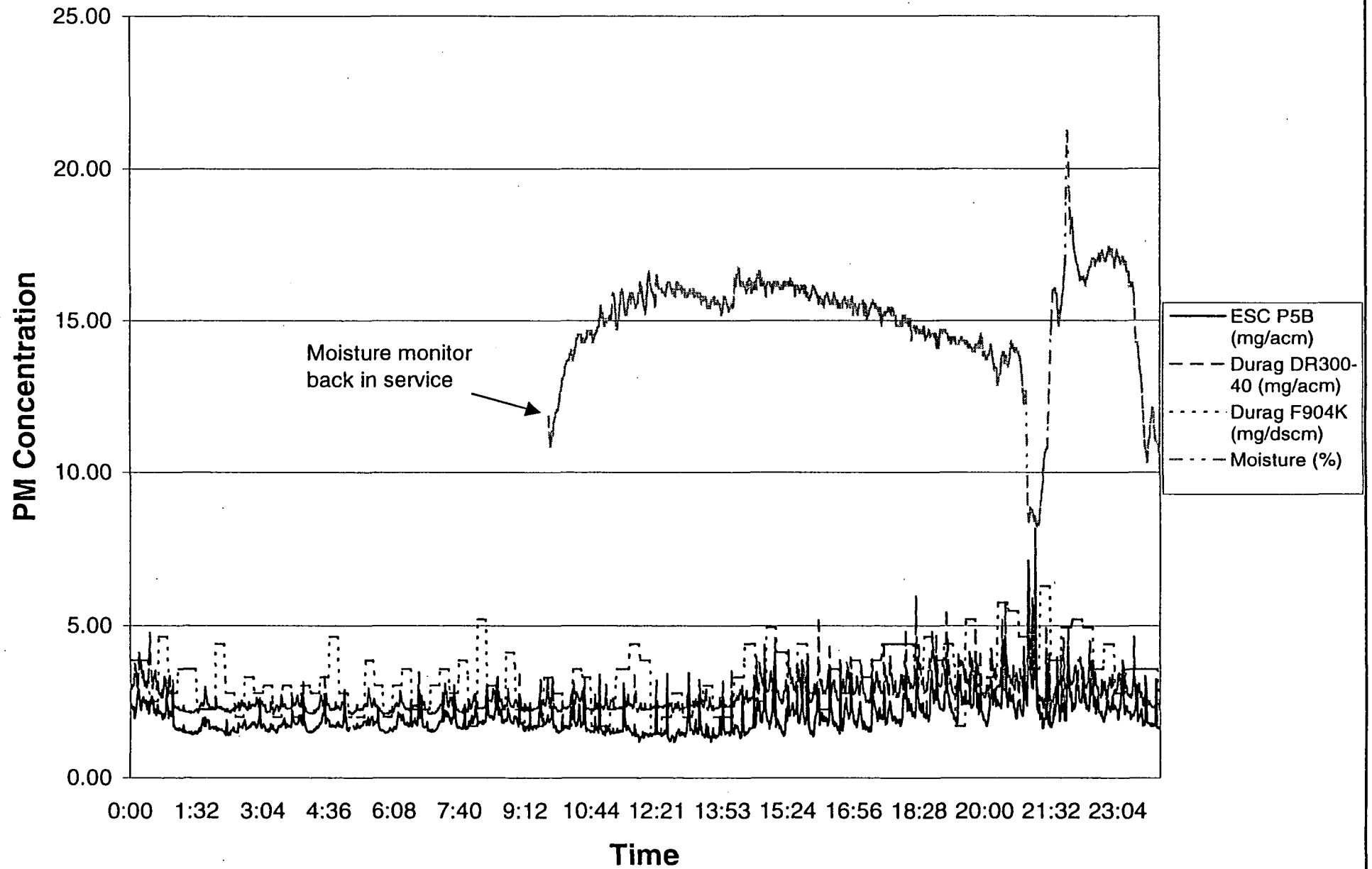
November 20, 1999



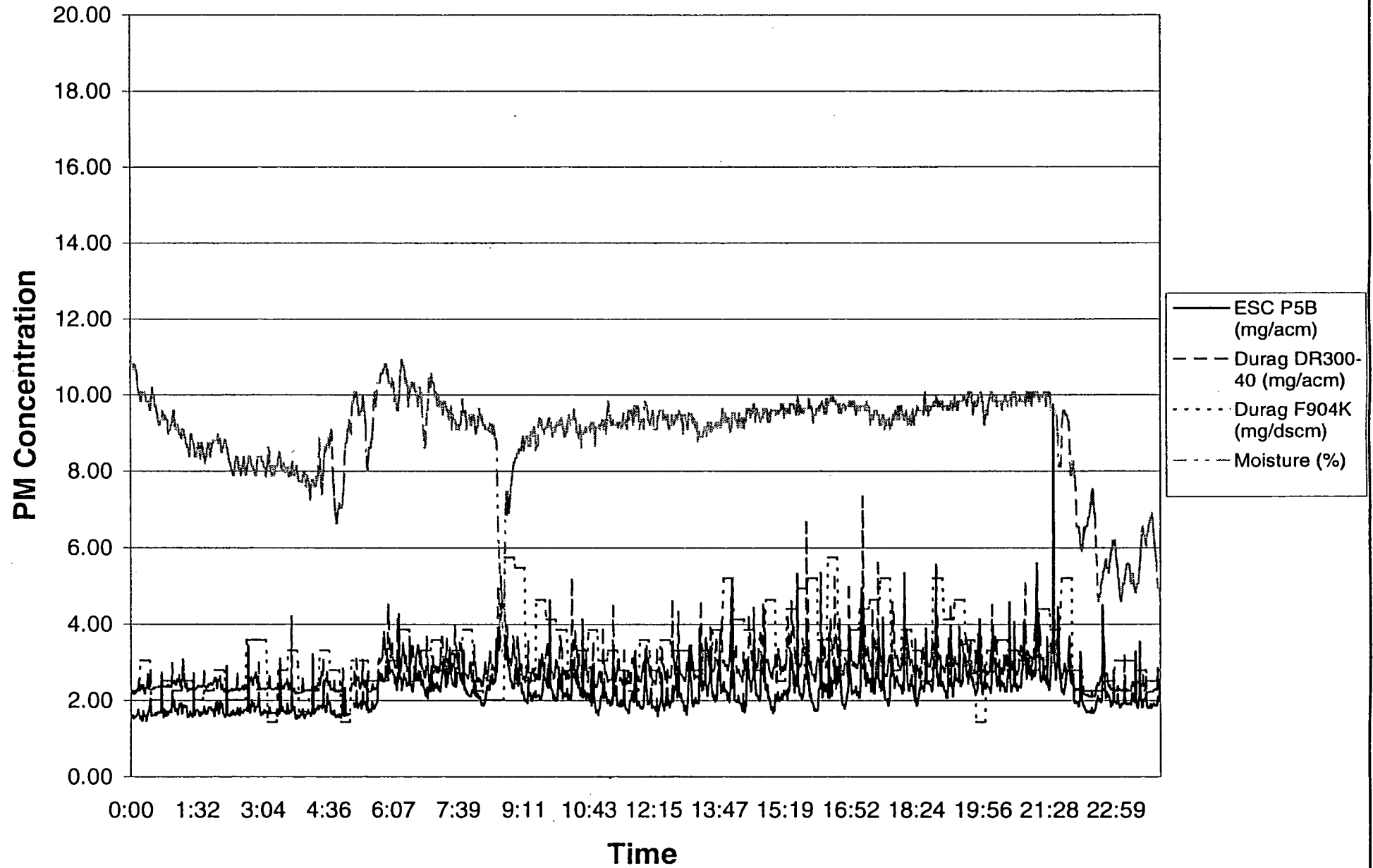
November 21, 1999



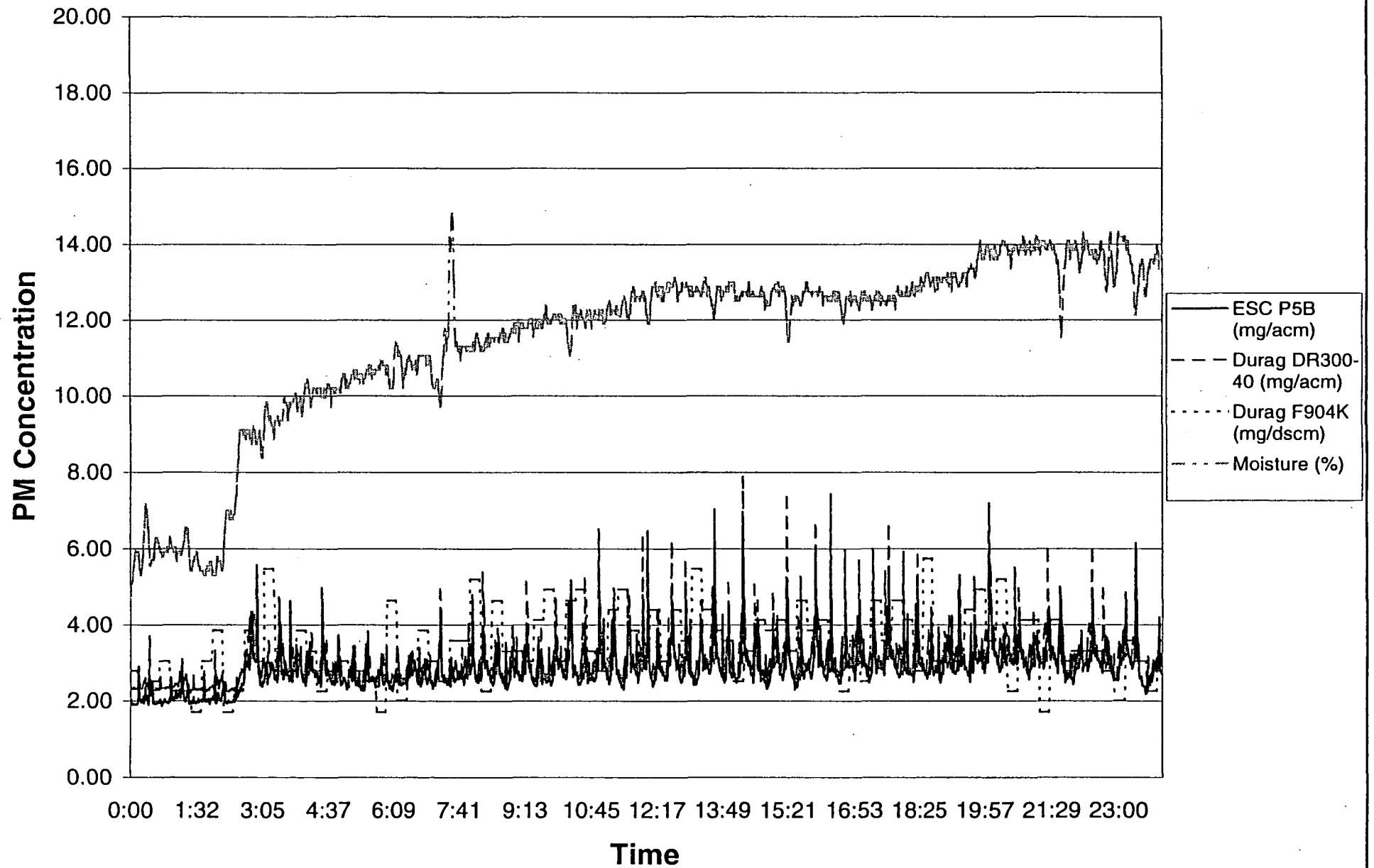
November 21, 1999



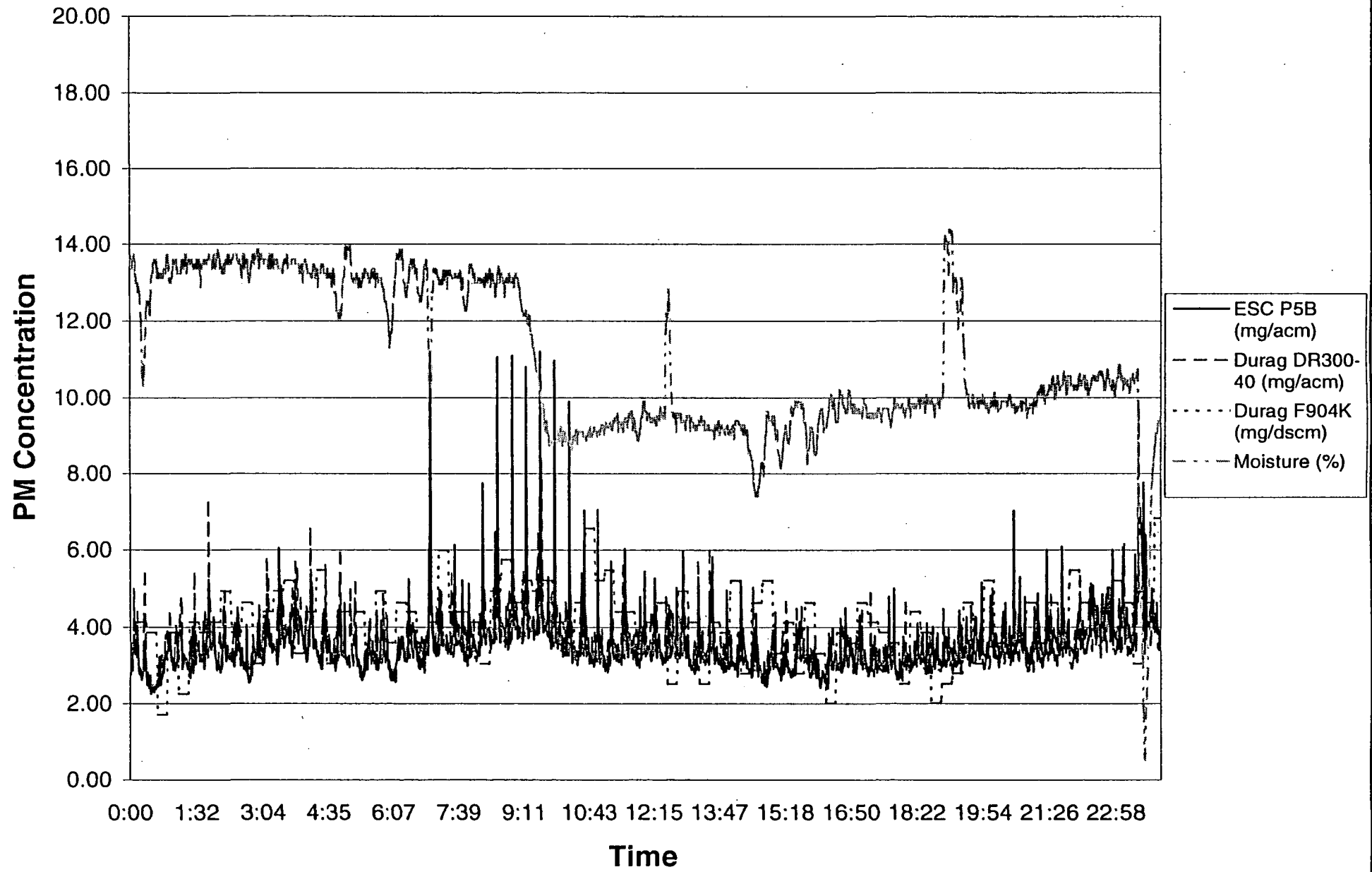
November 22, 1999



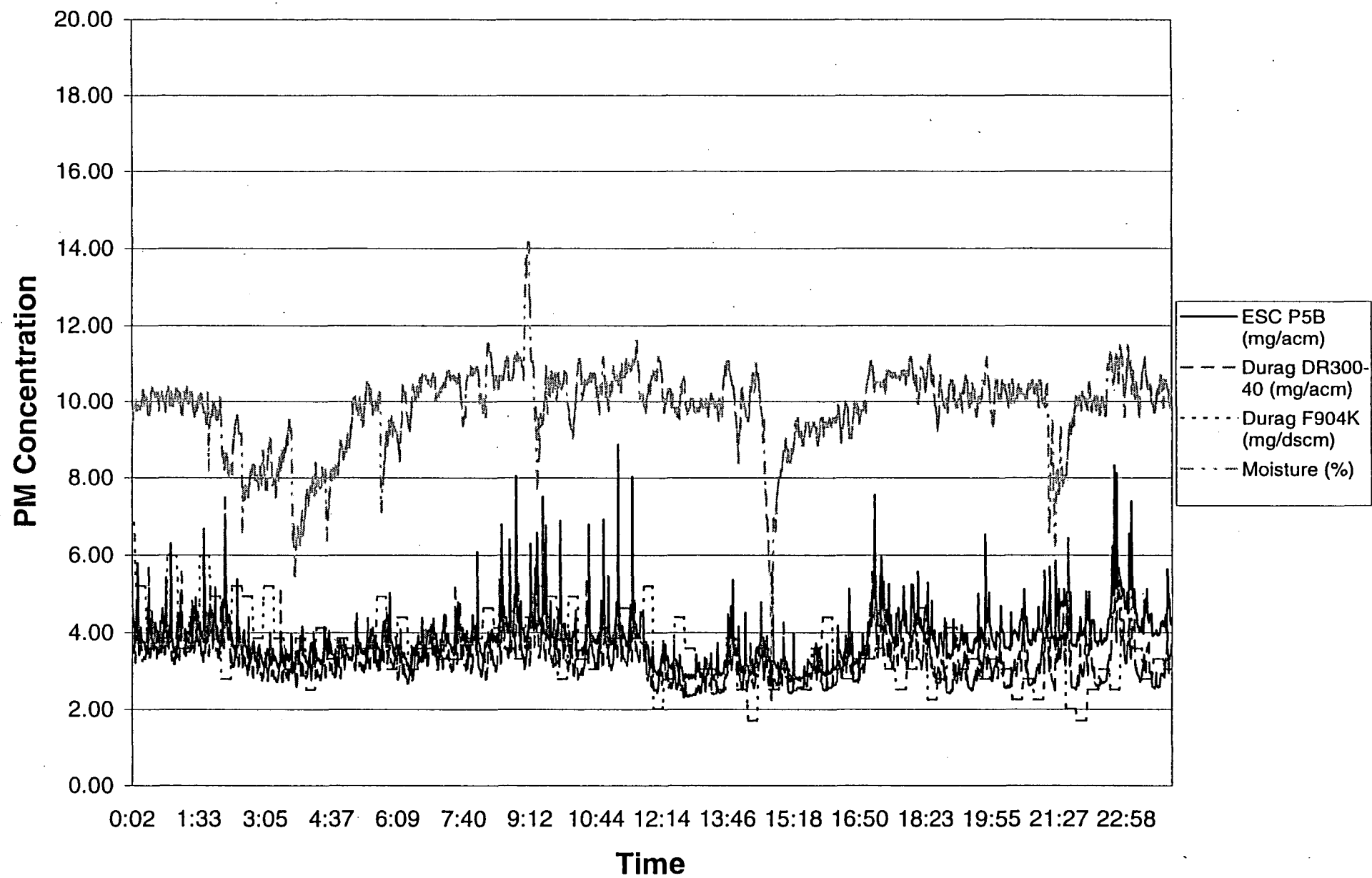
November 23, 1999



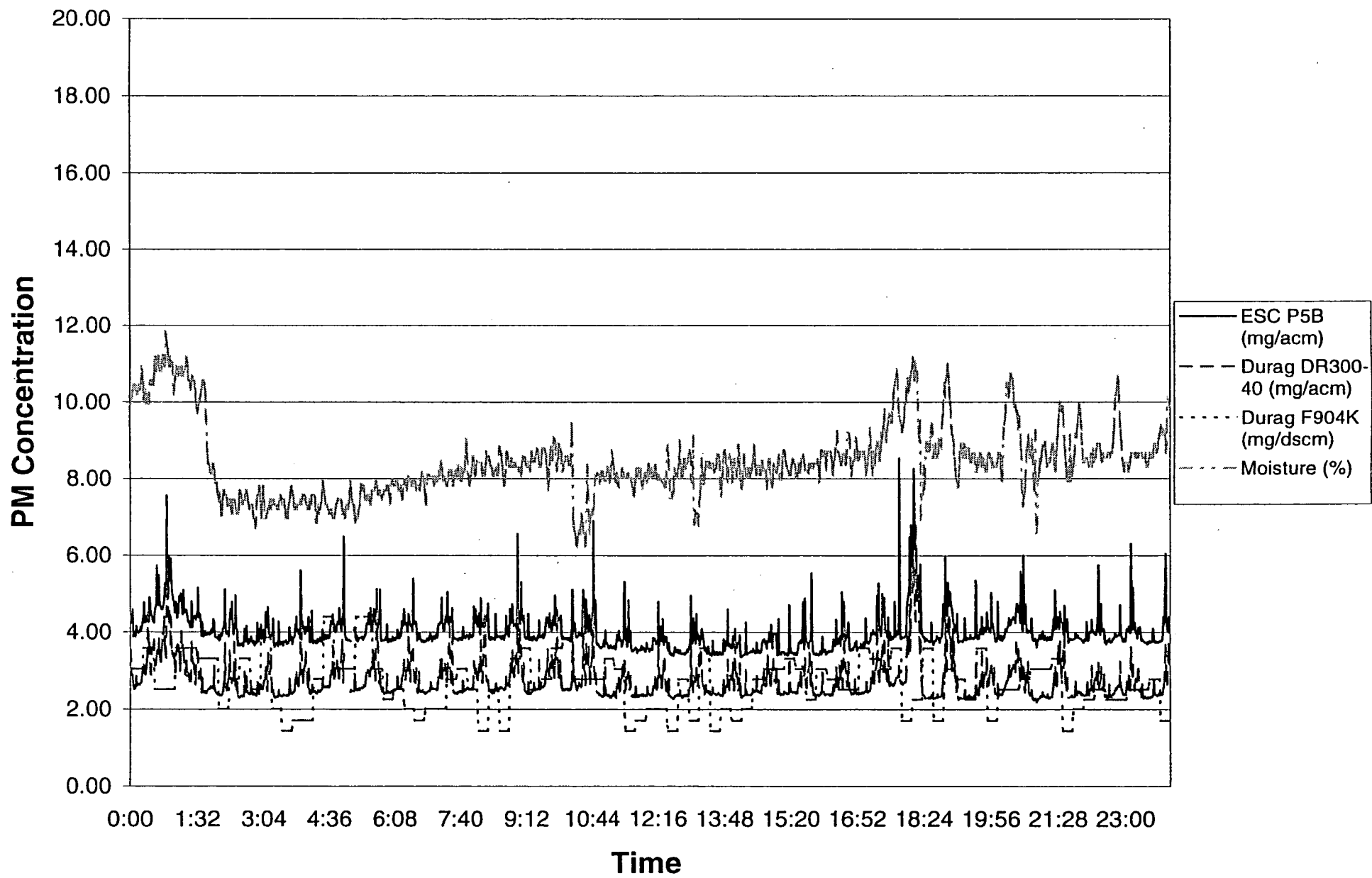
November 24, 1999



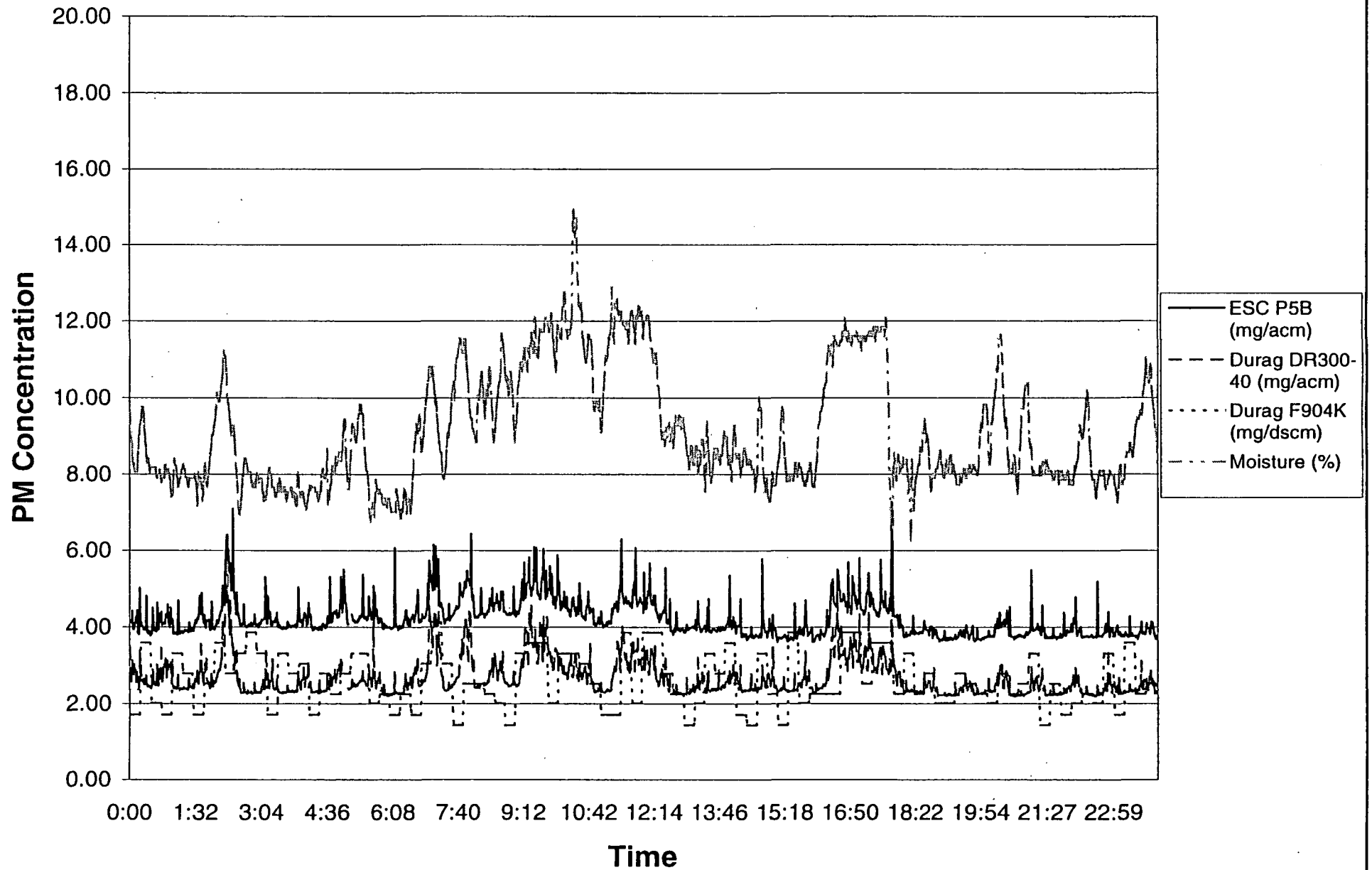
November 25, 1999



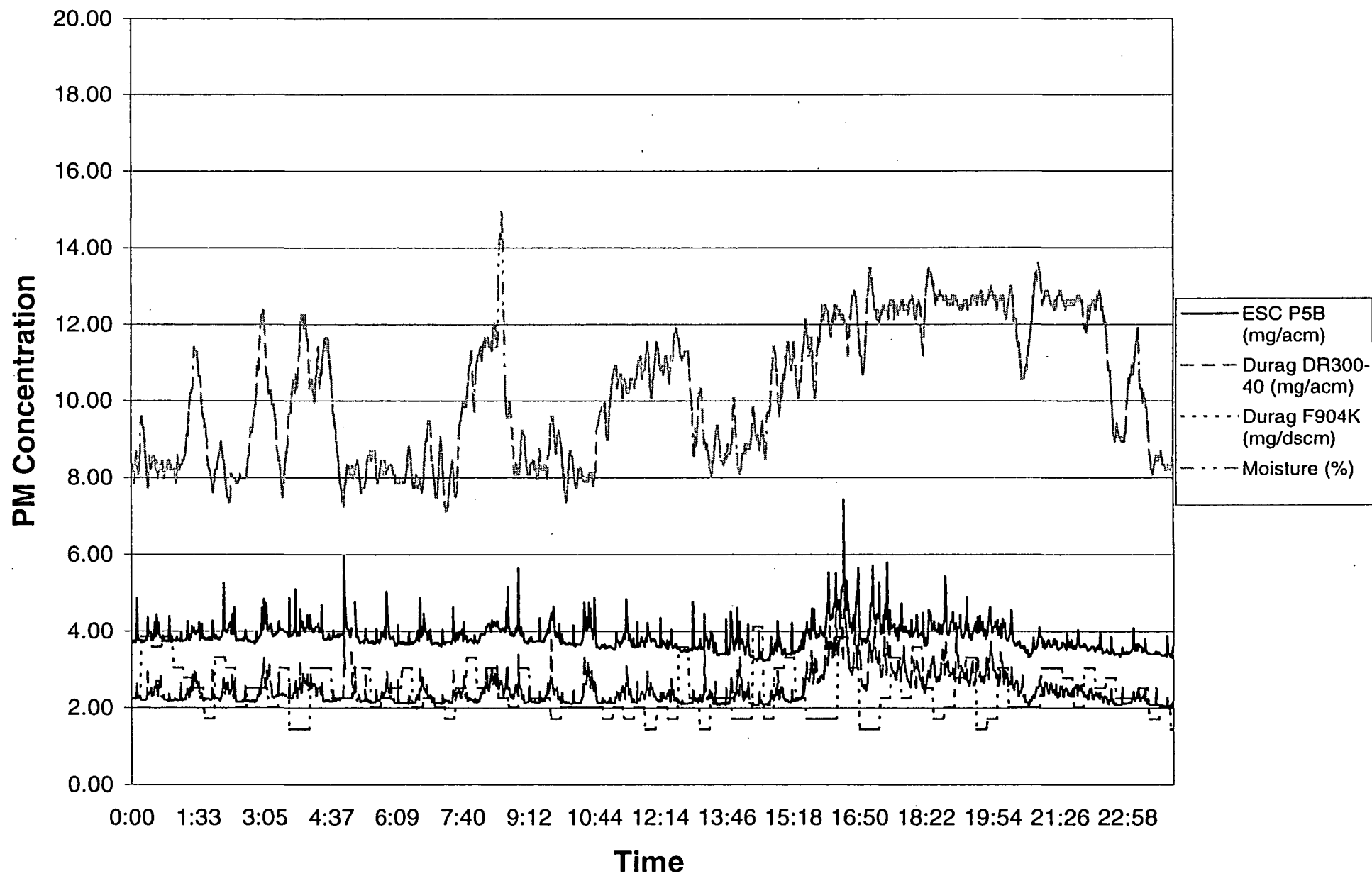
November 26, 1999



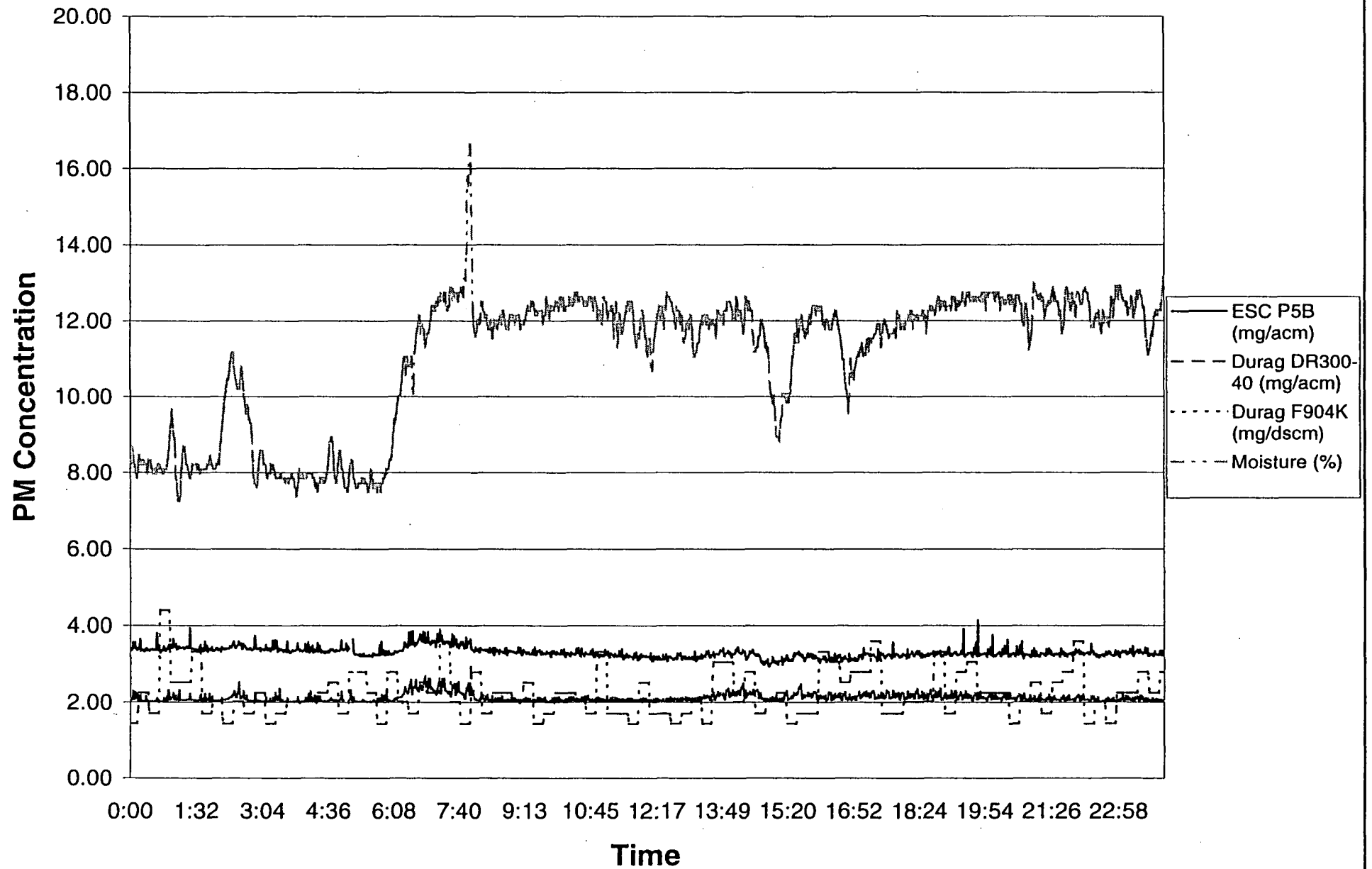
November 27, 1999



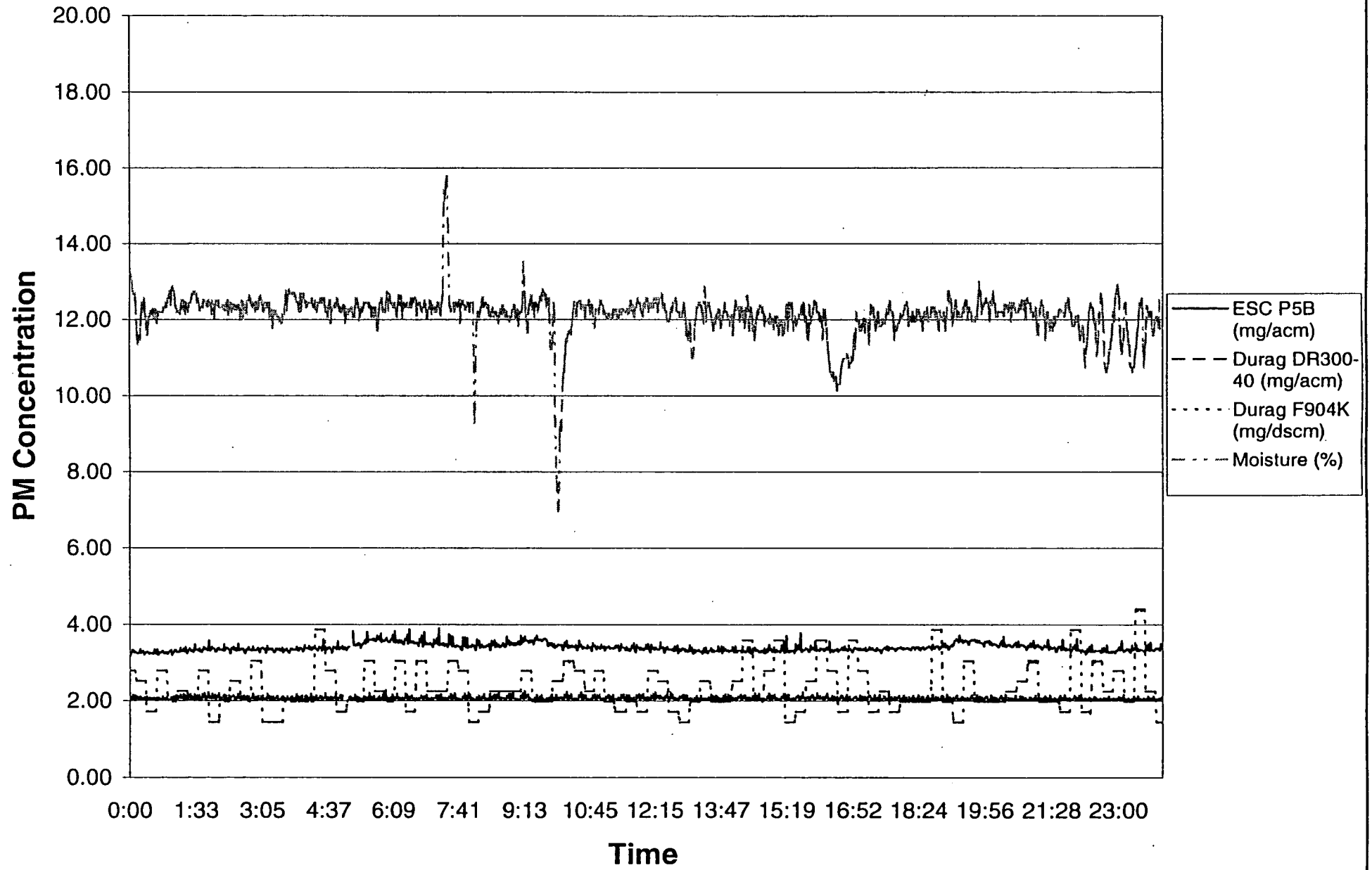
November 28, 1999



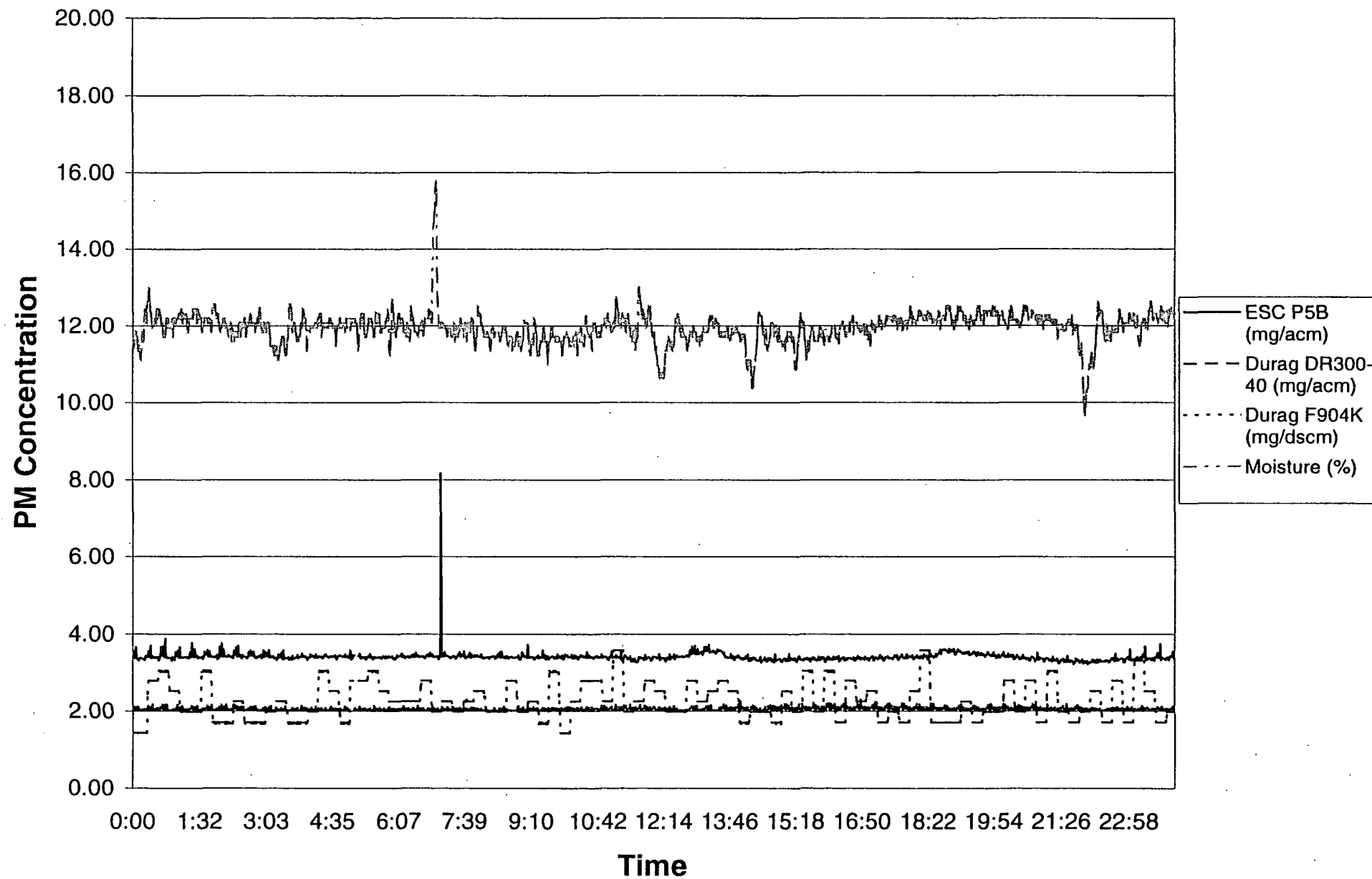
November 29, 1999



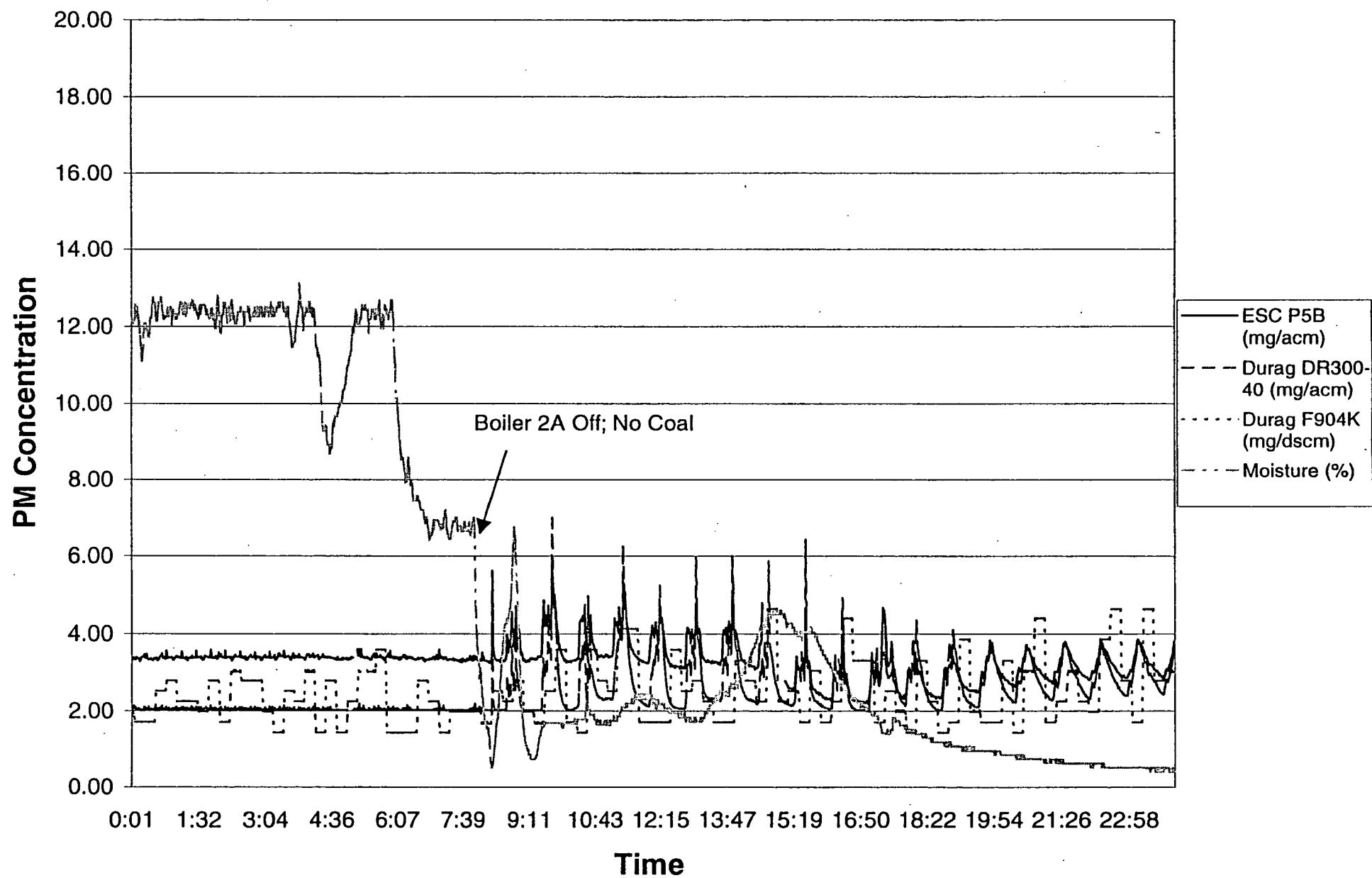
November 30, 1999



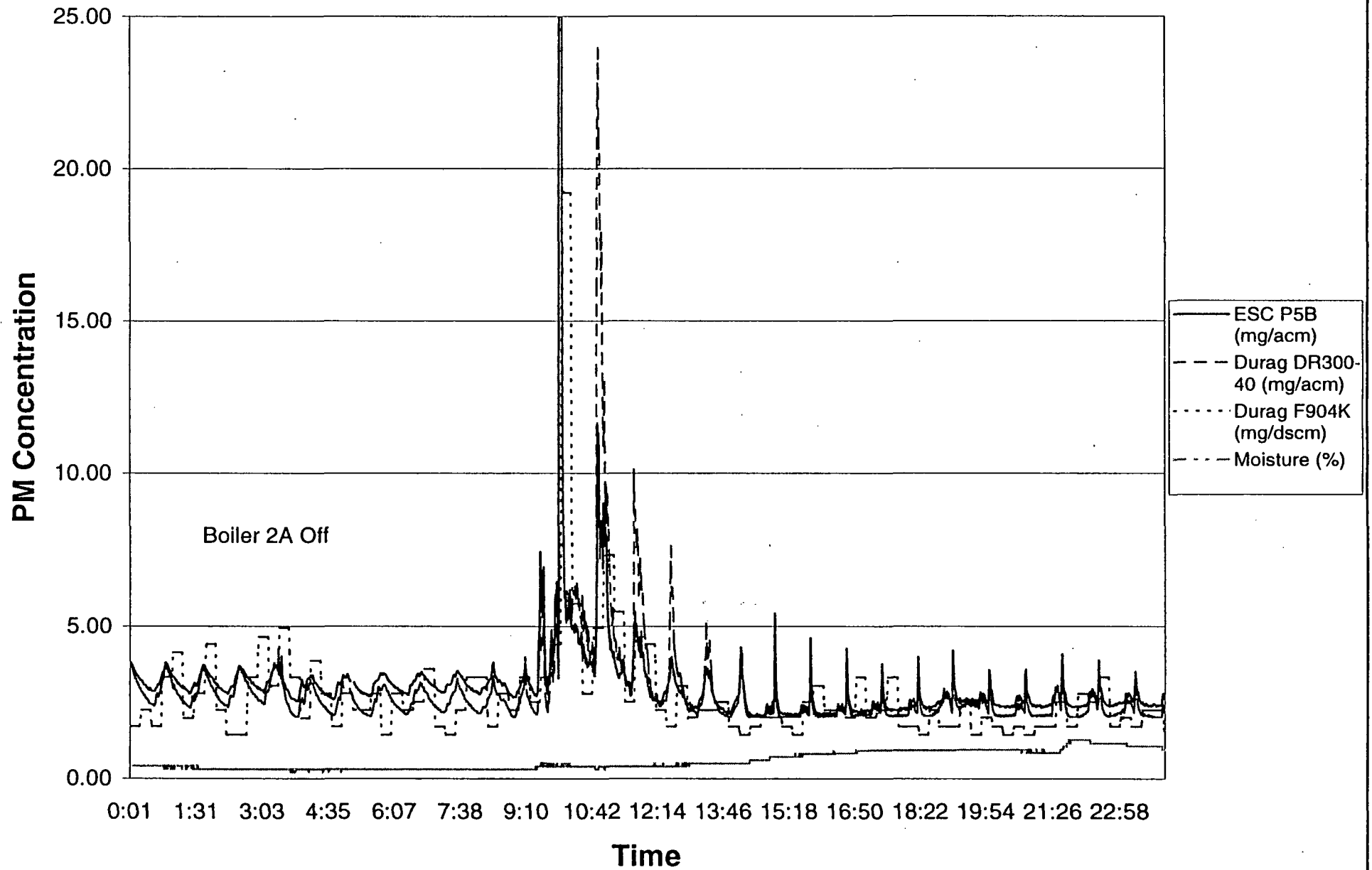
December 1, 1999



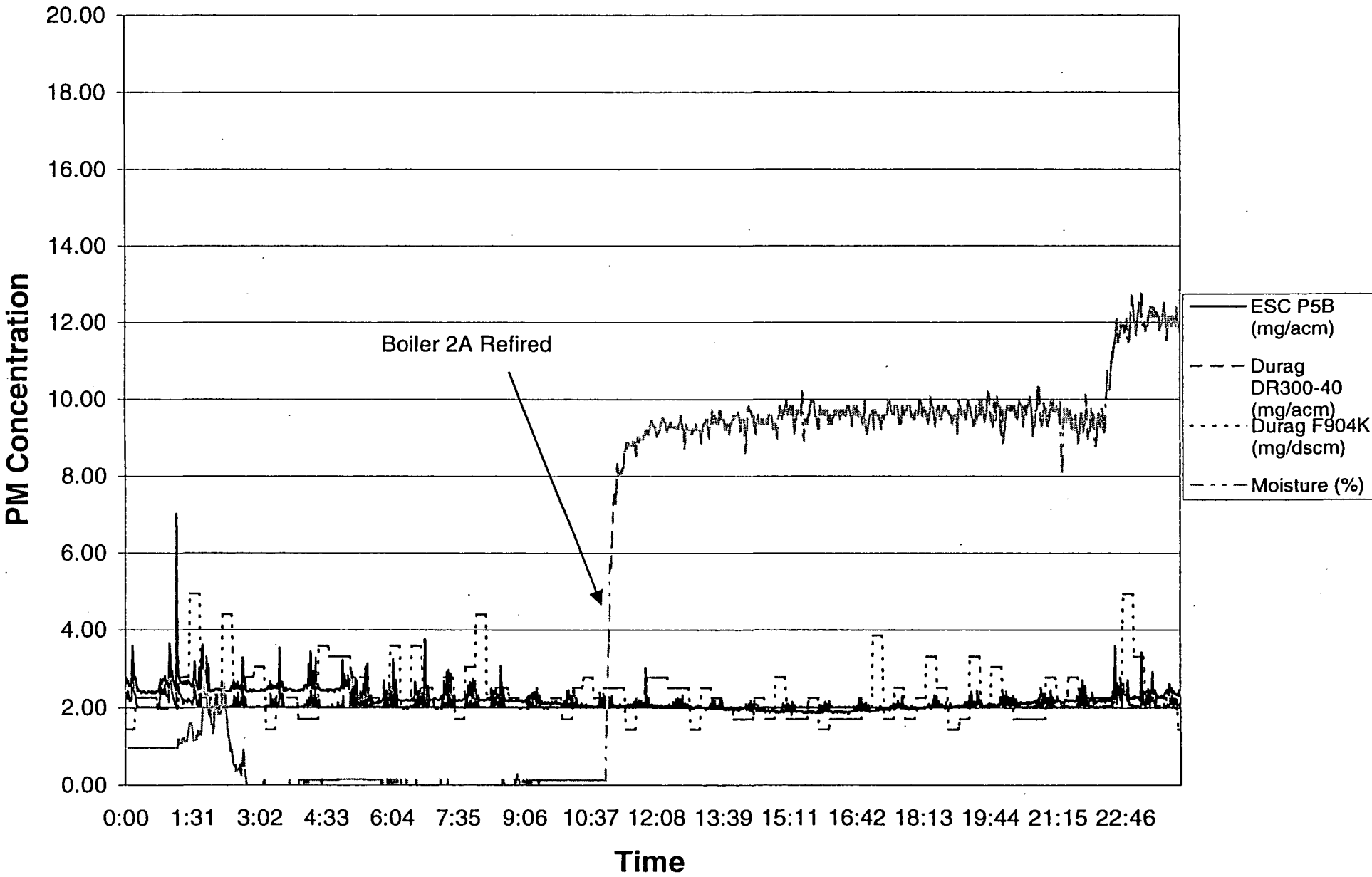
December 2, 1999



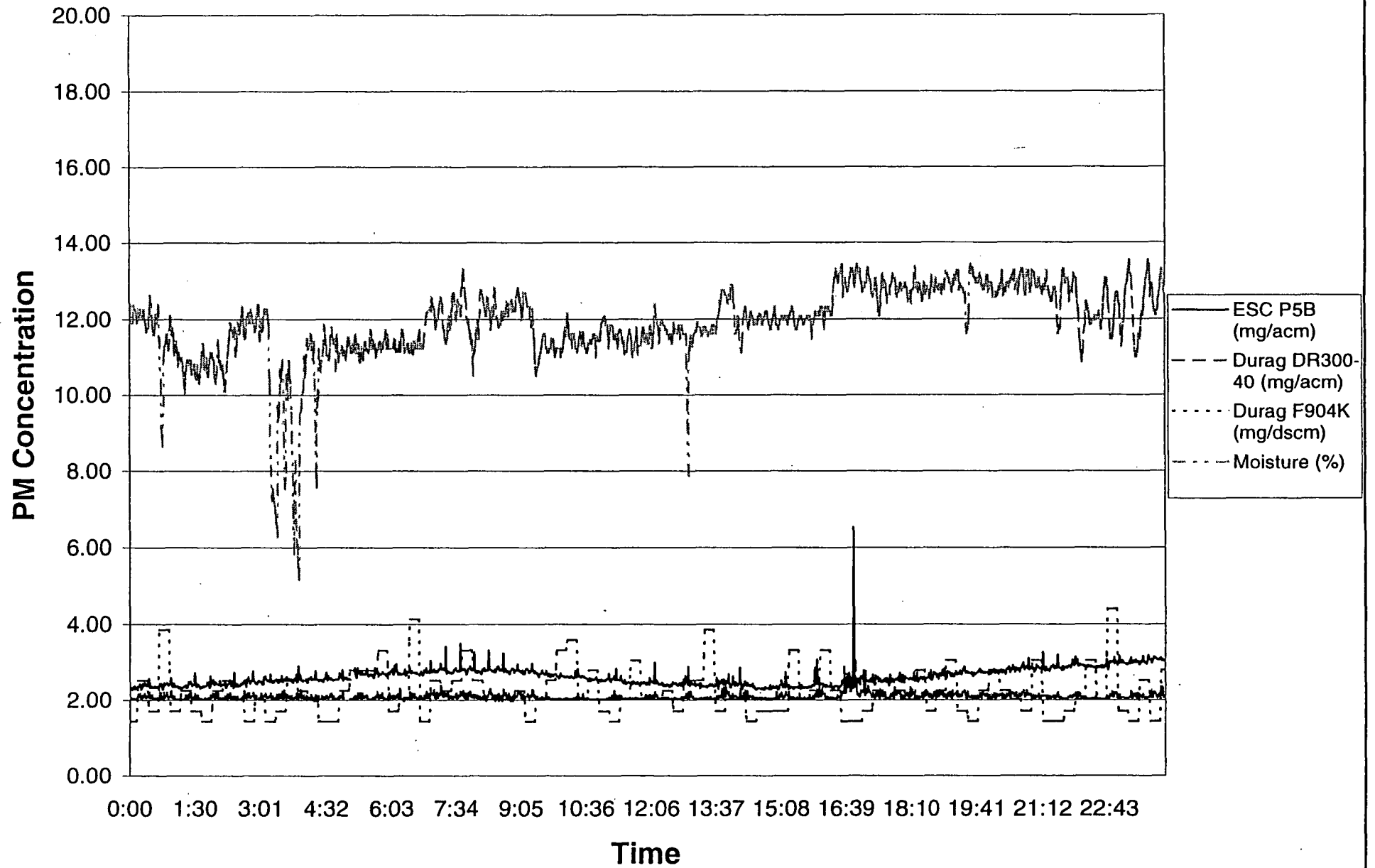
December 3, 1999



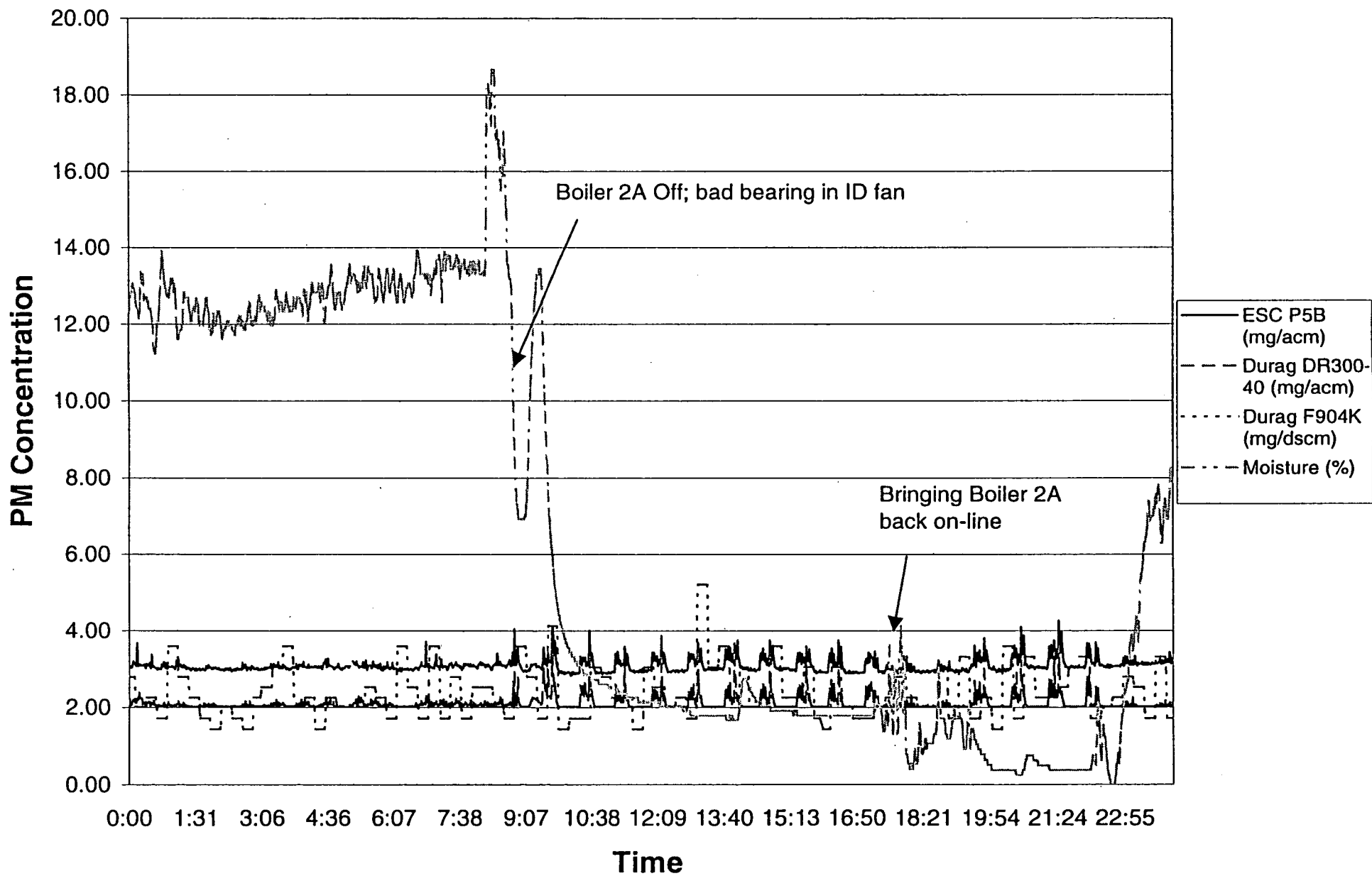
December 4, 1999



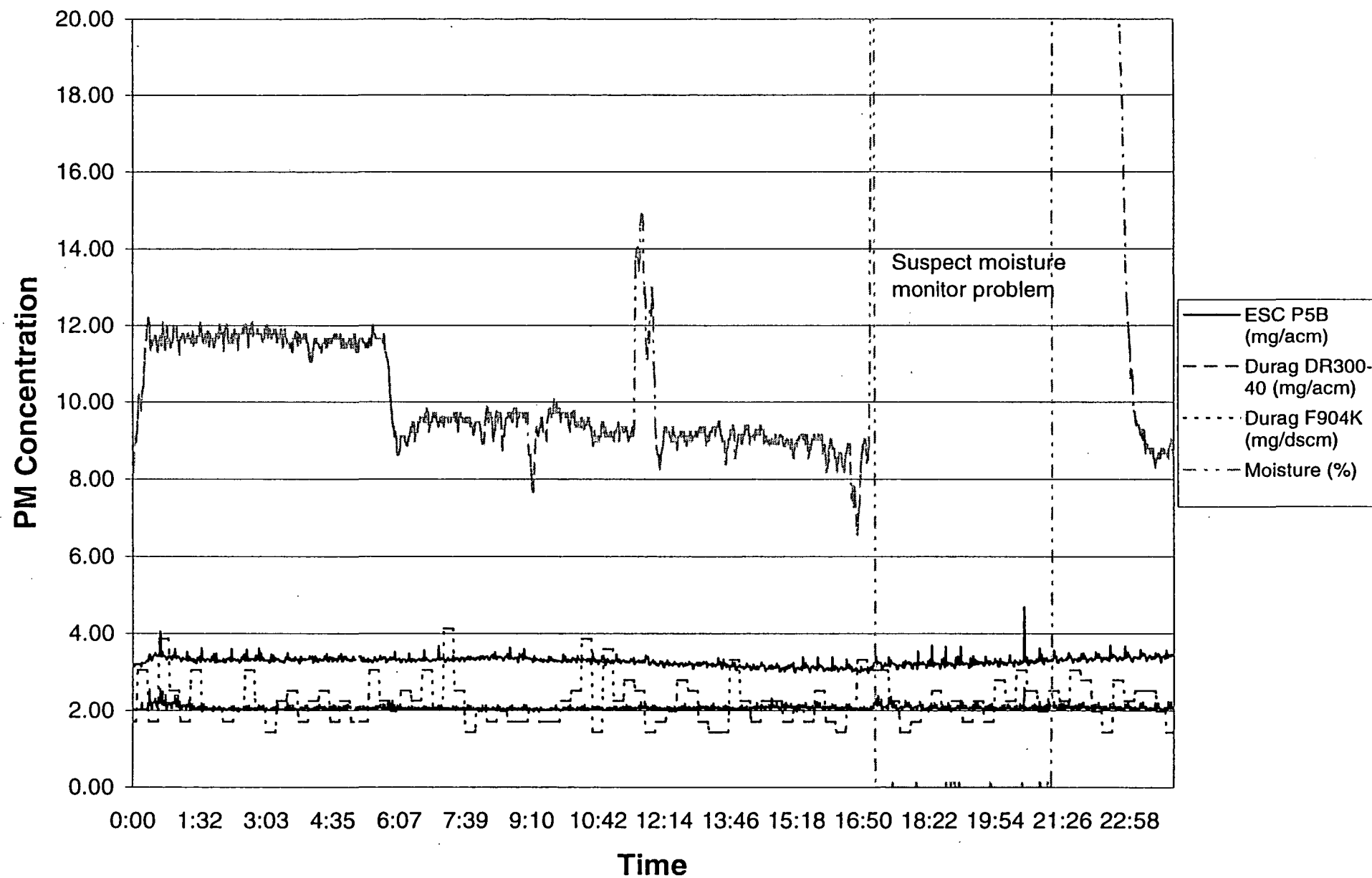
December 5, 1999

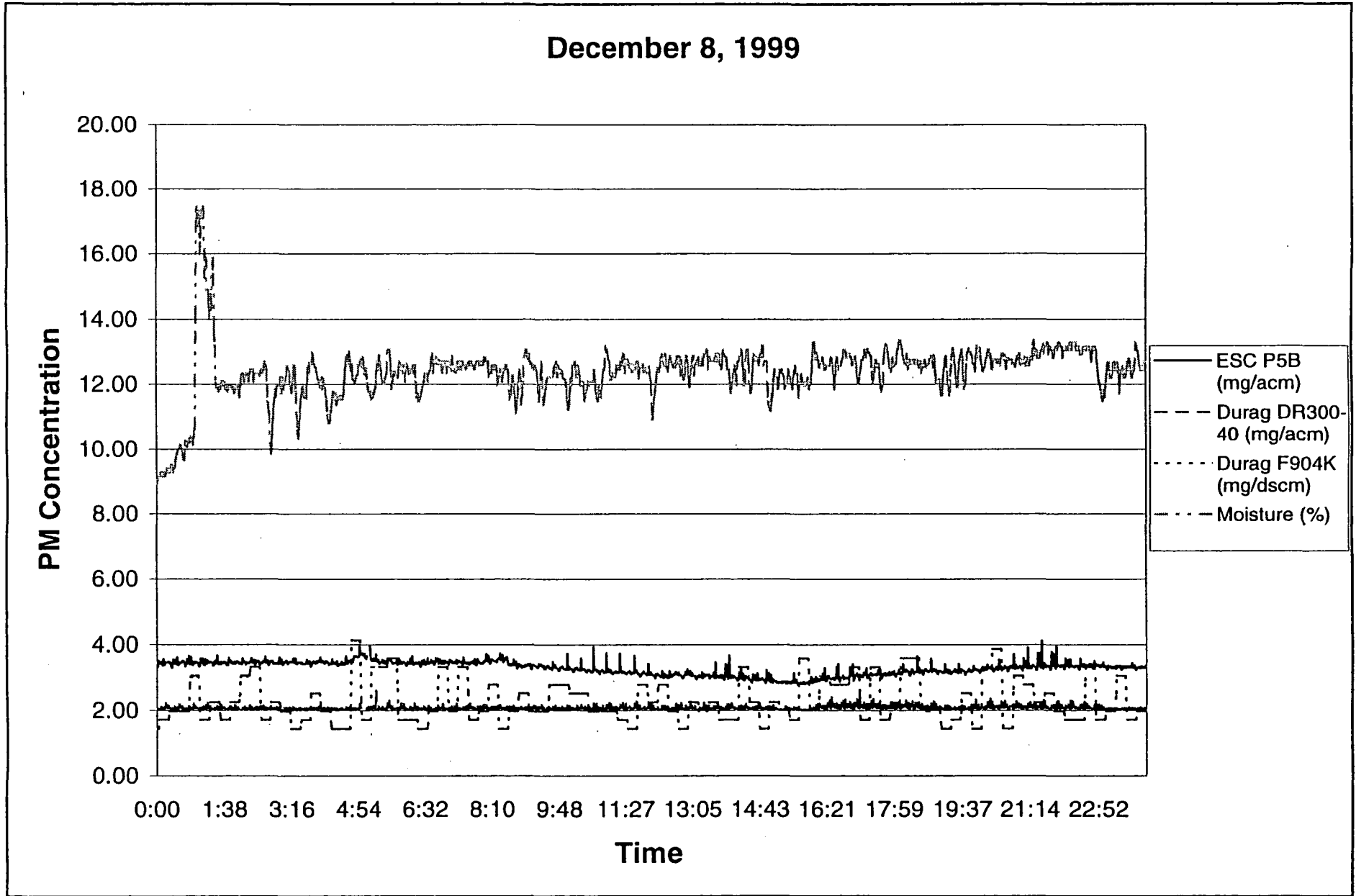


December 6, 1999

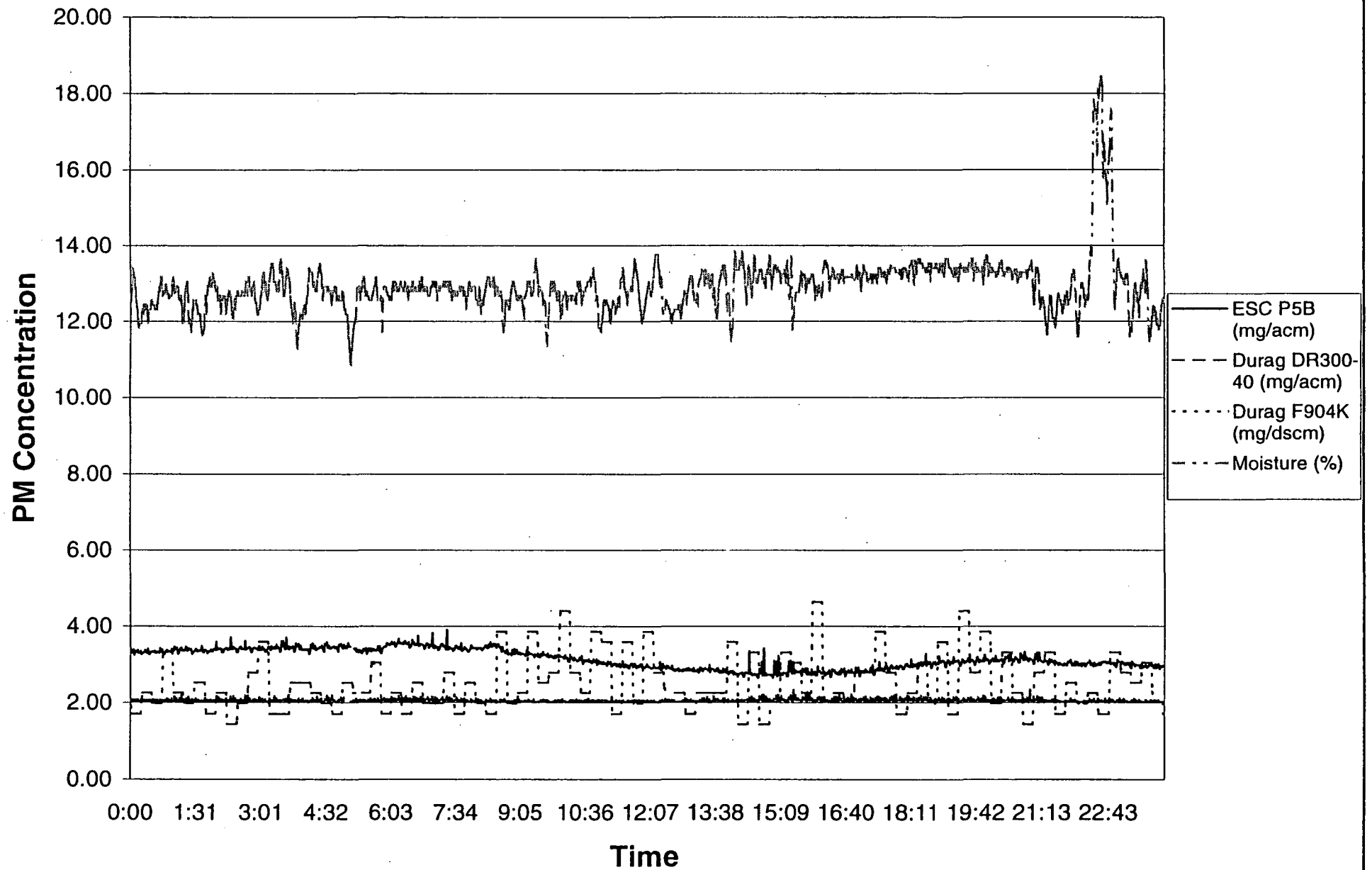


December 7, 1999

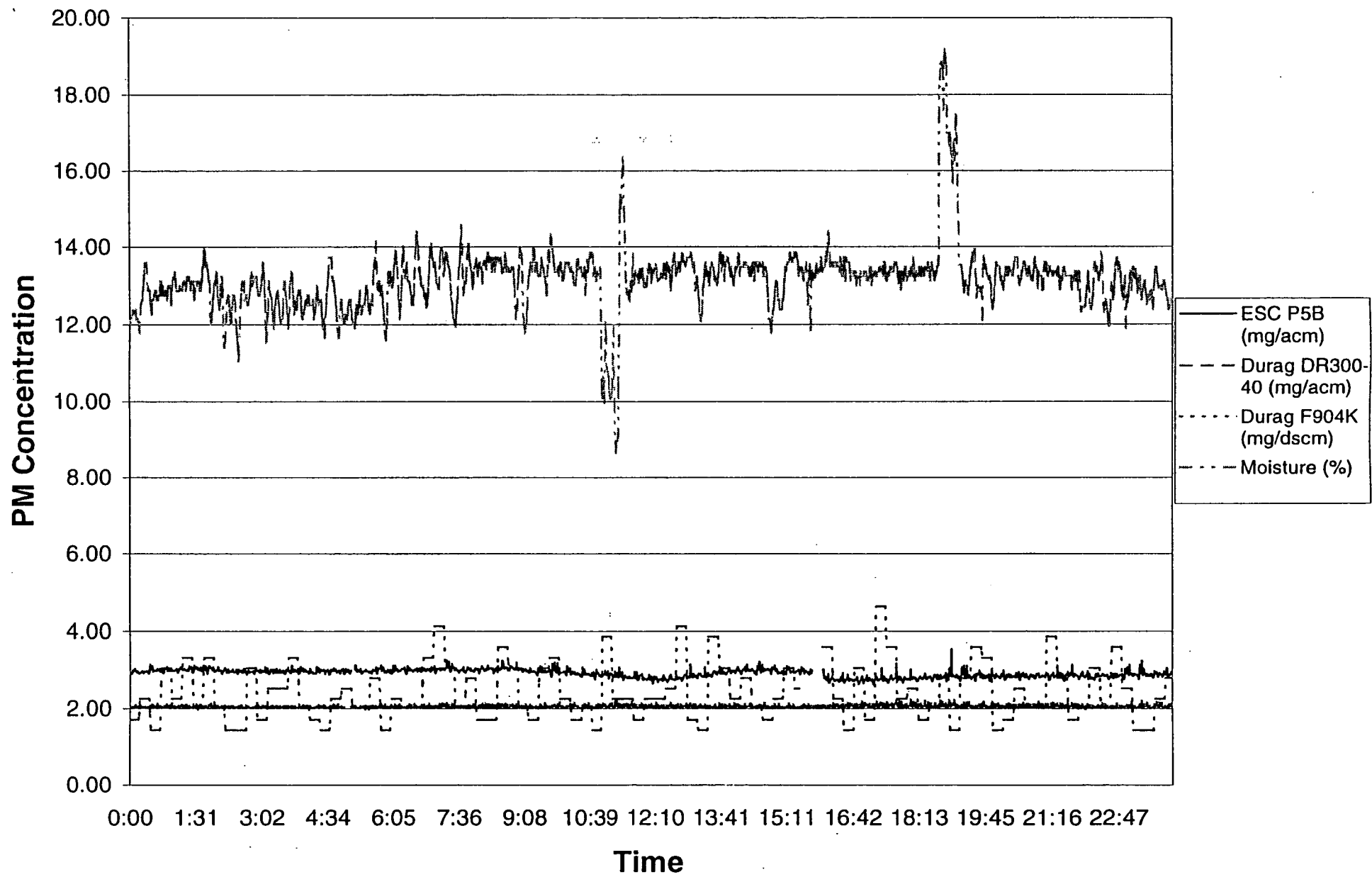




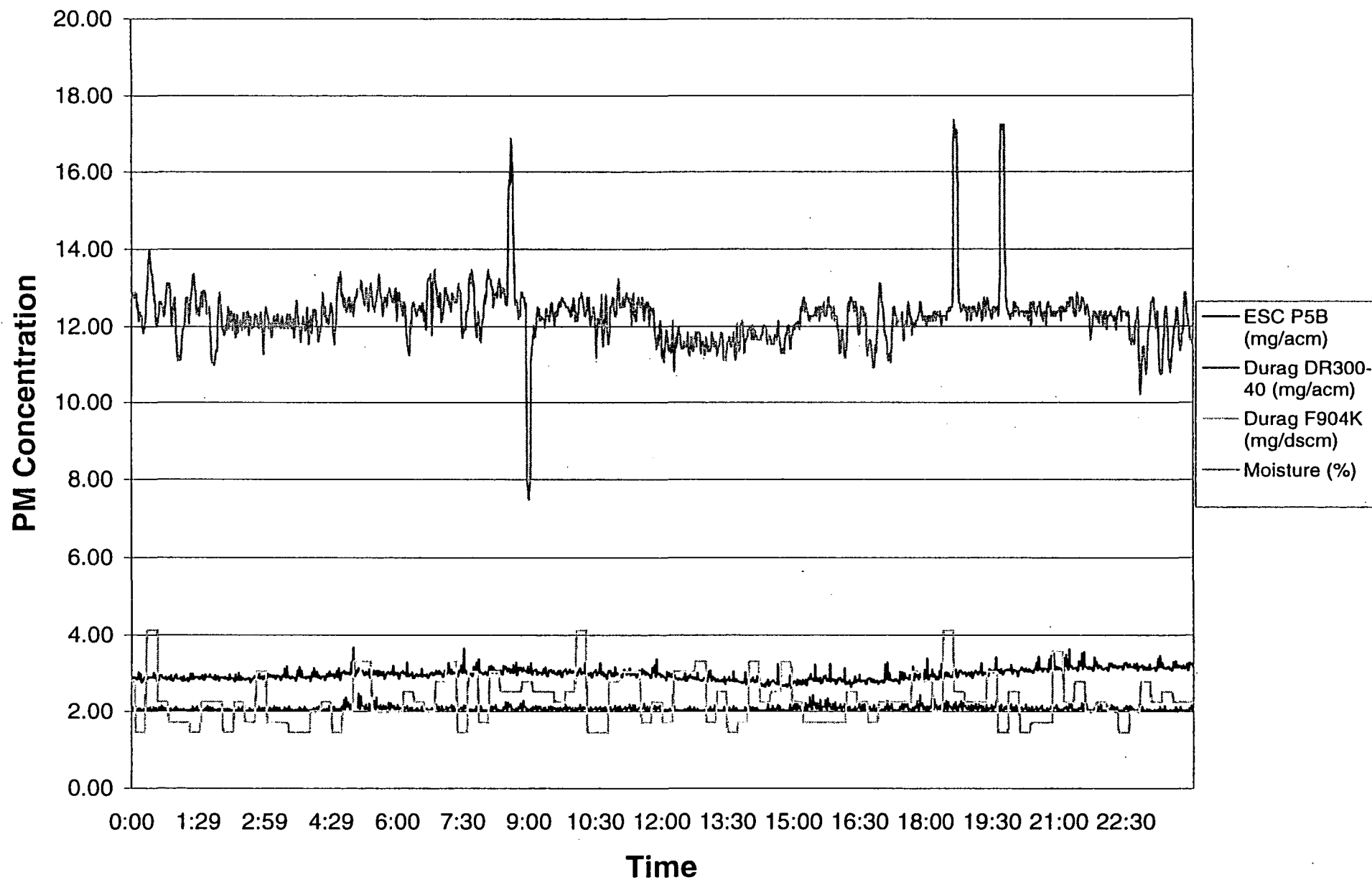
December 9, 1999



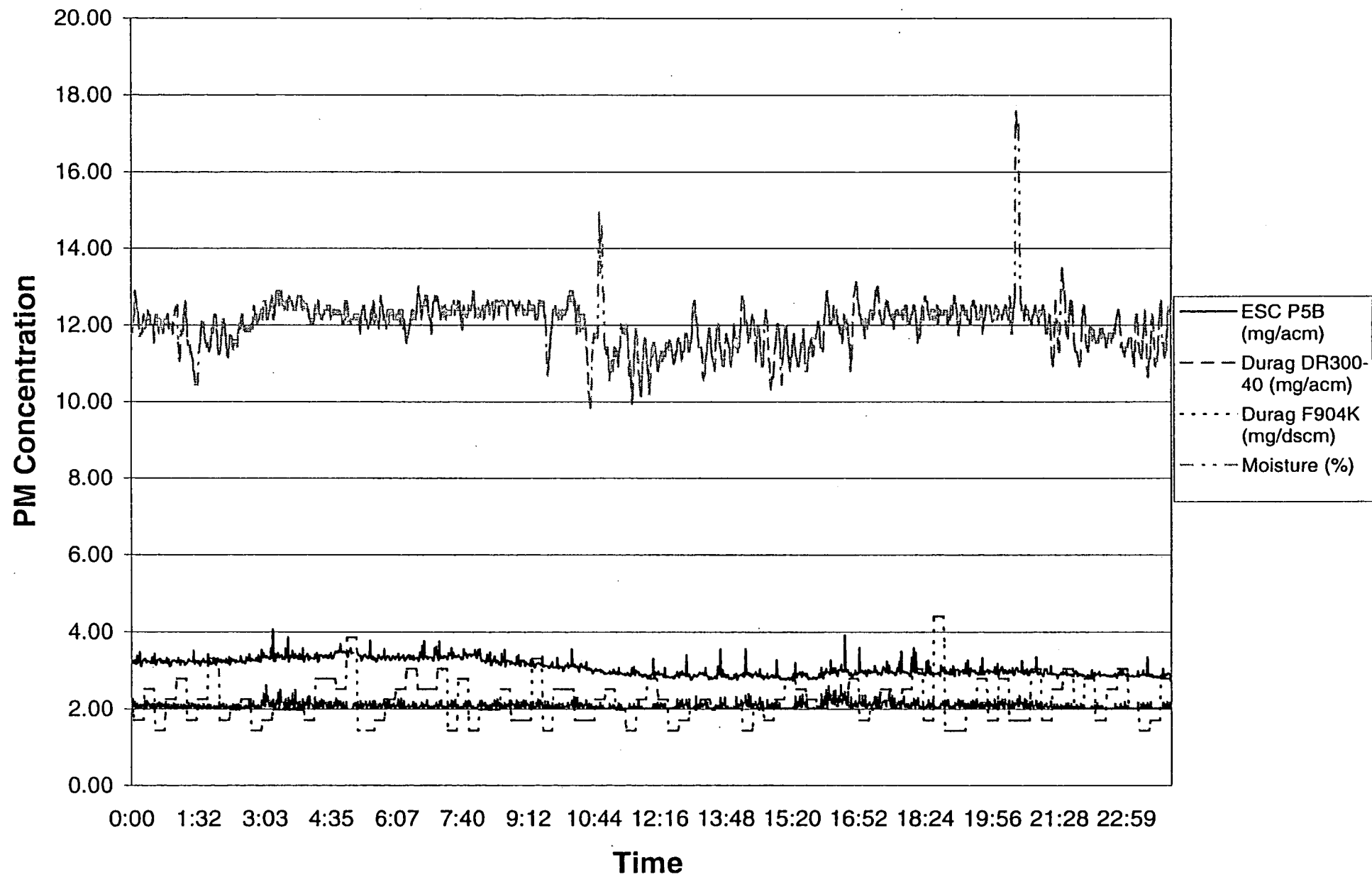
December 10, 1999



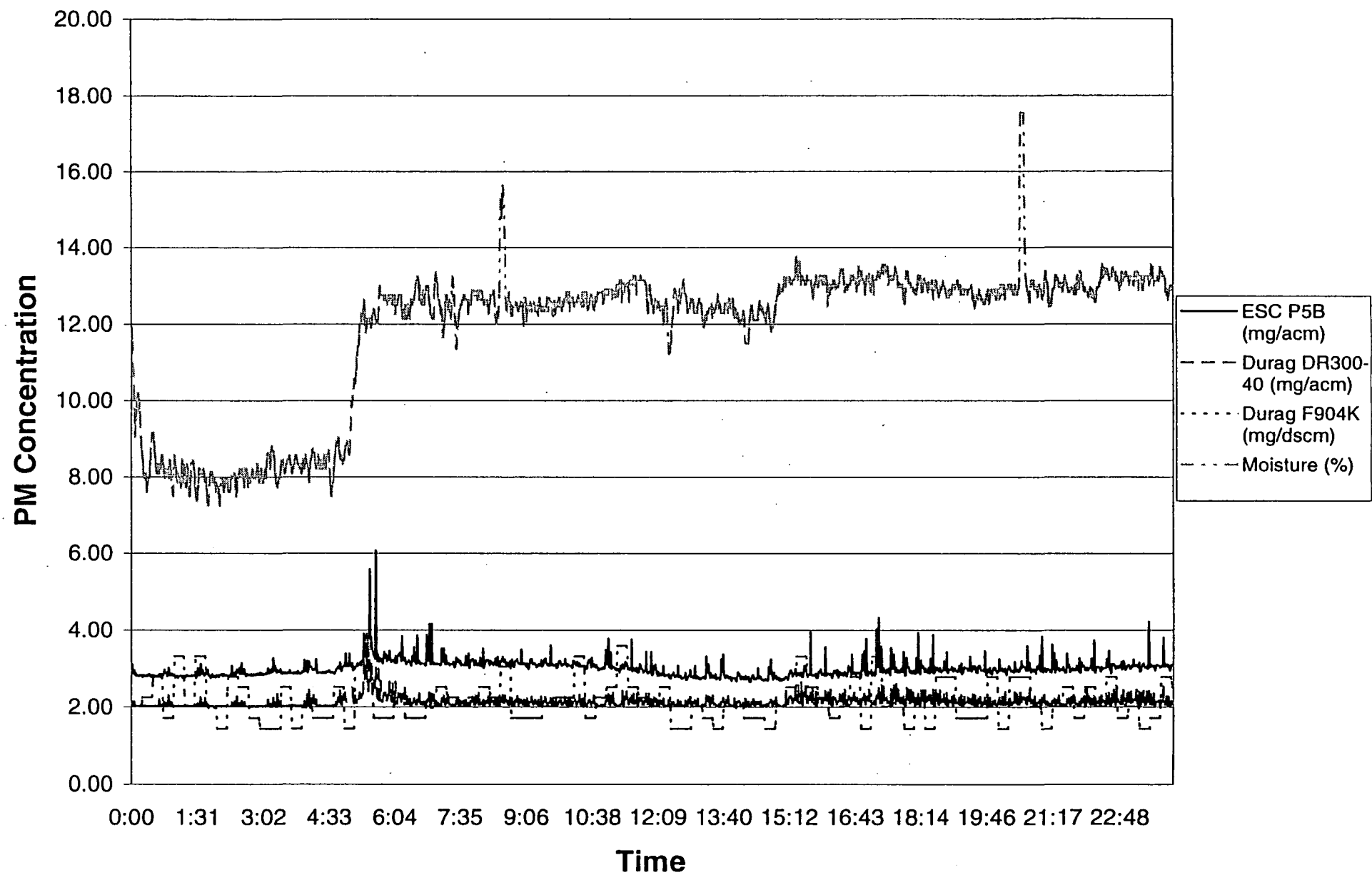
December 11, 1999



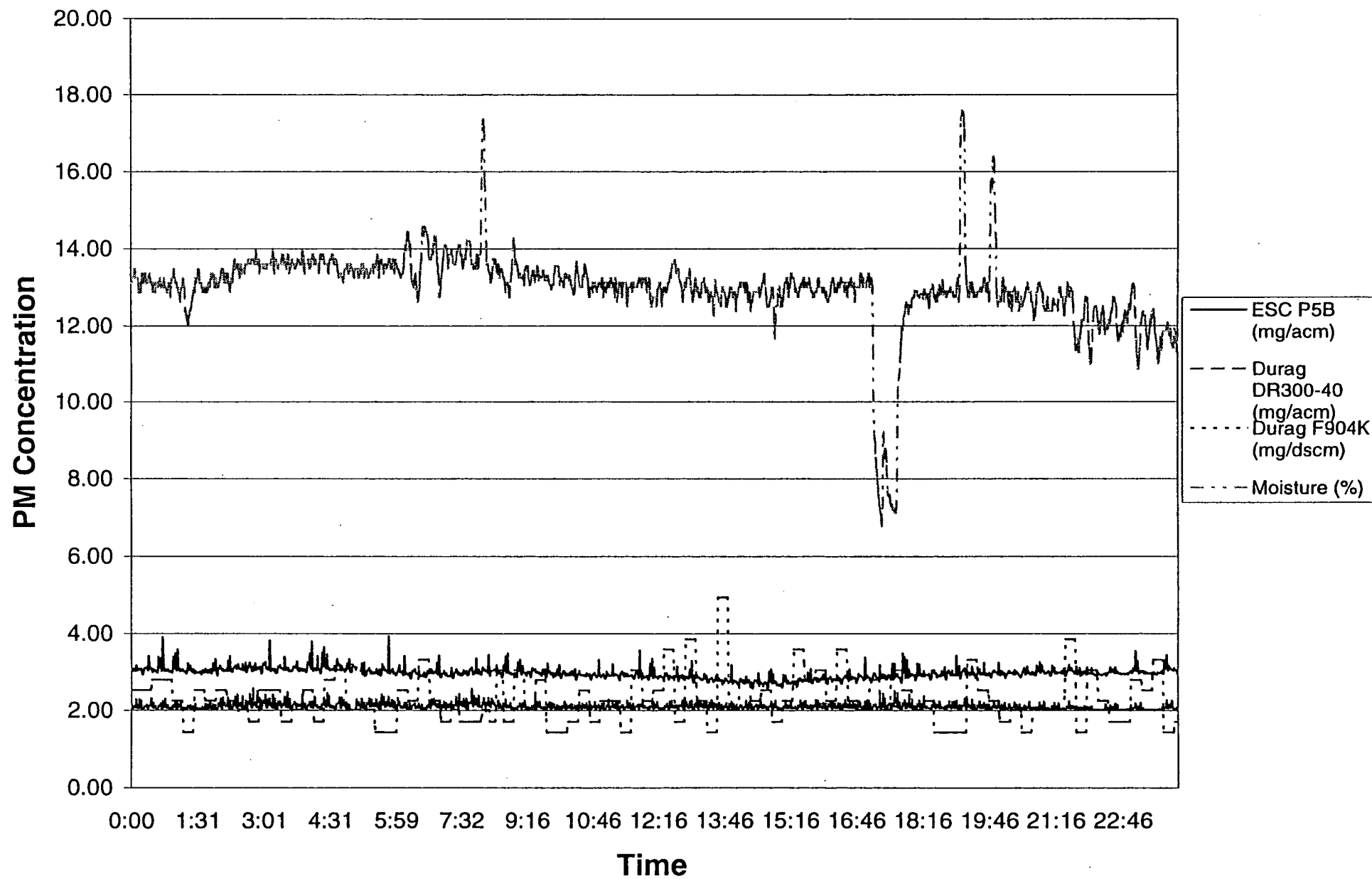
December 12, 1999



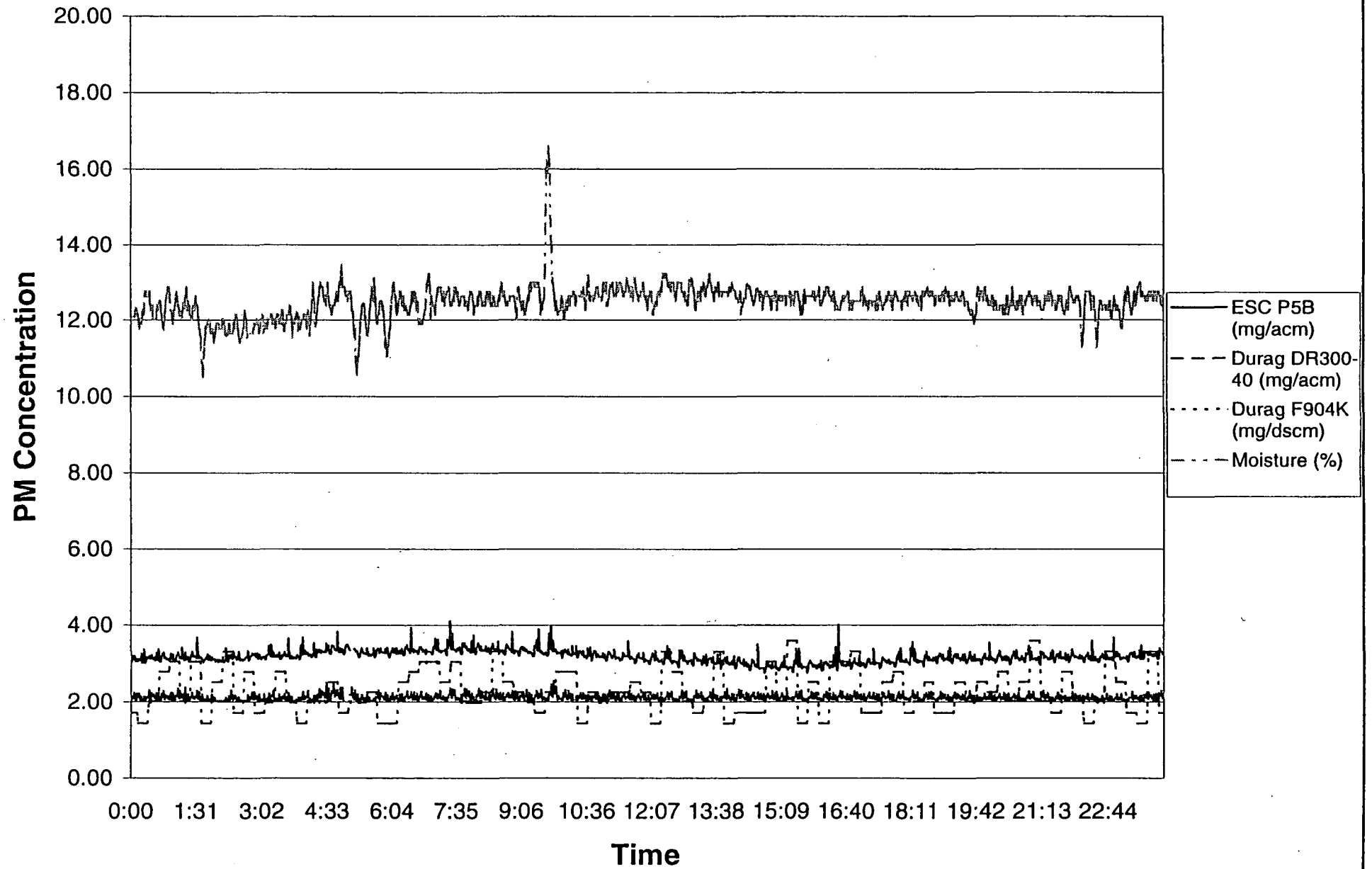
December 13, 1999



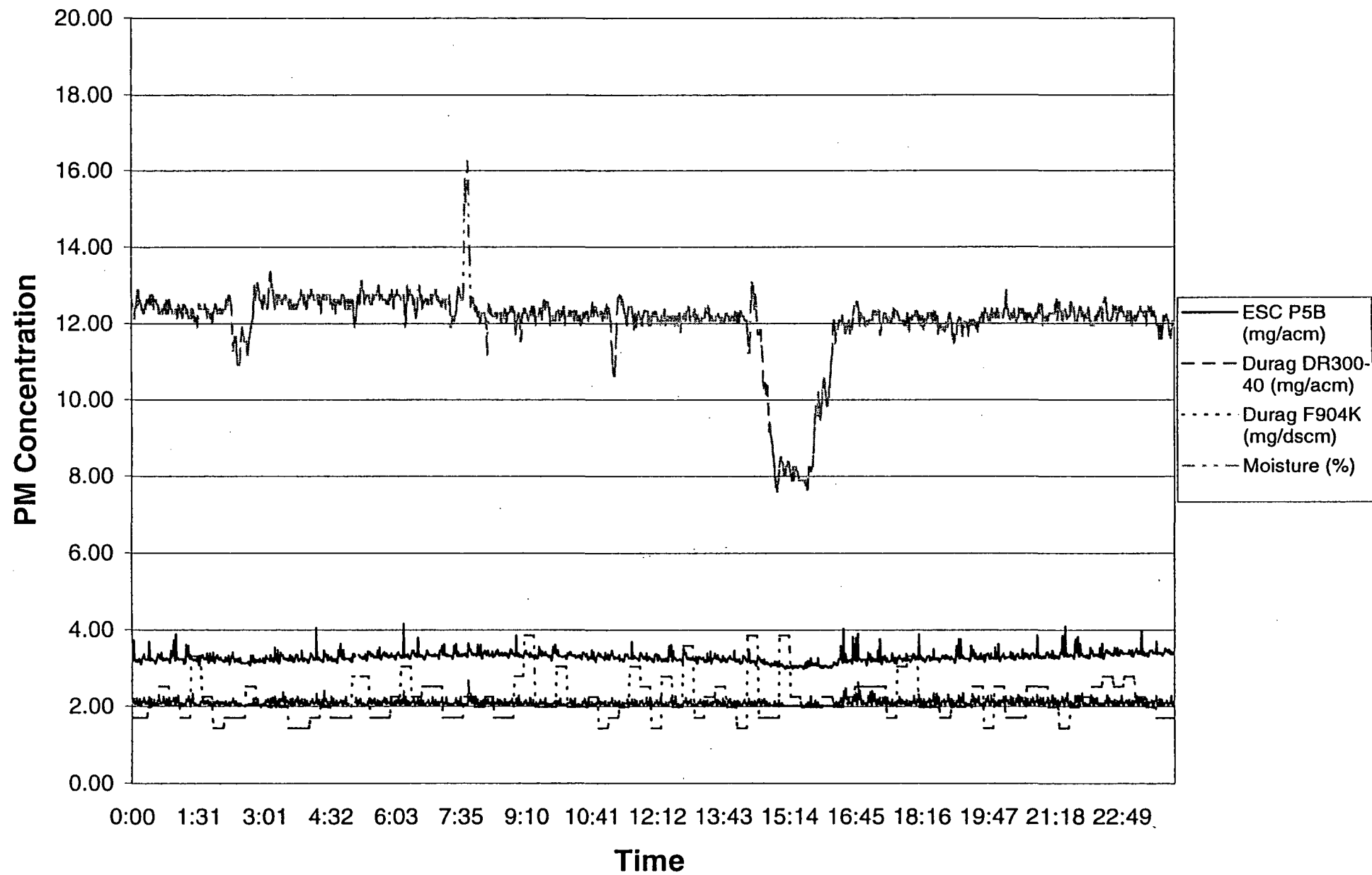
December 14, 1999



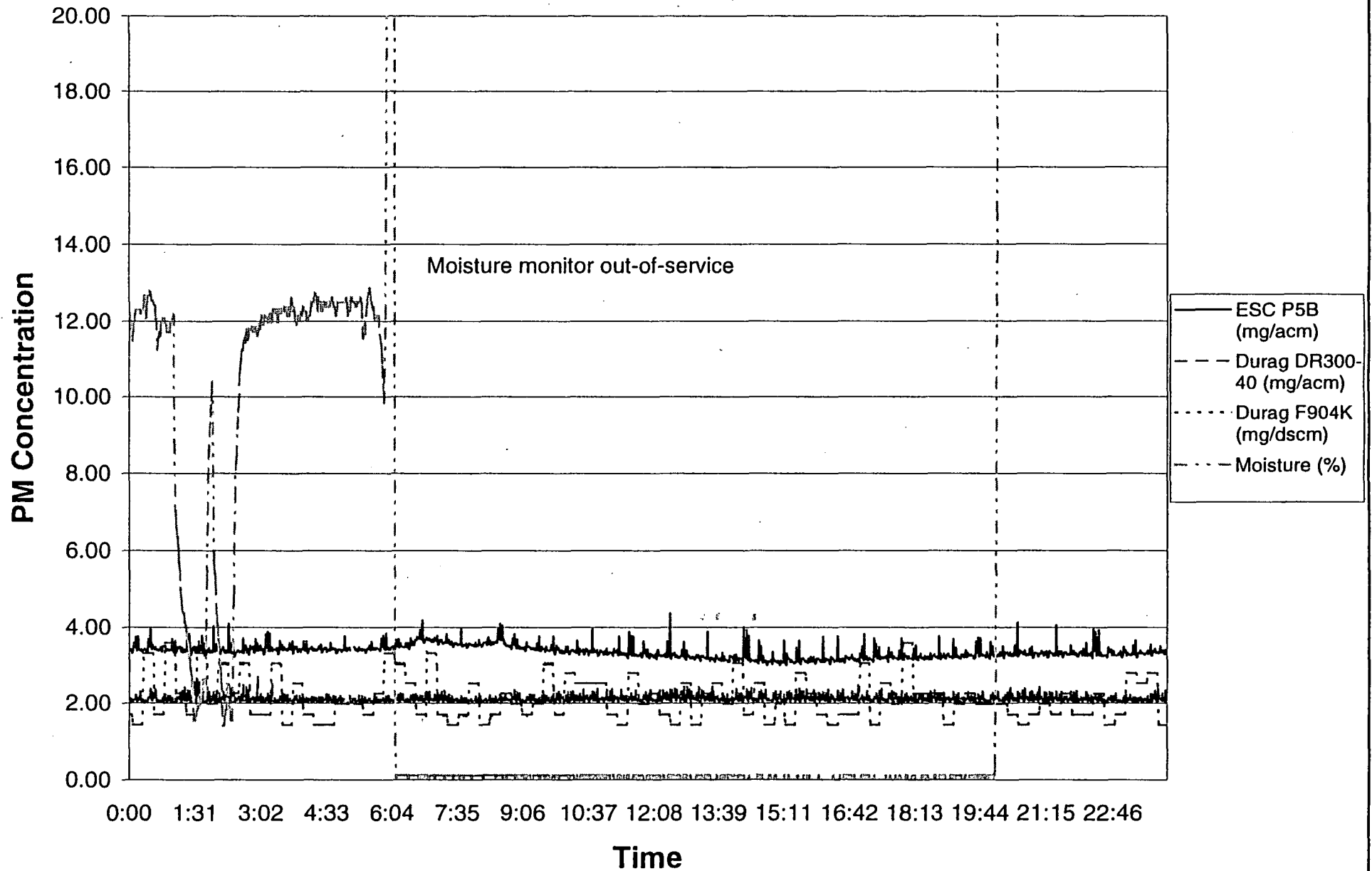
December 15, 1999



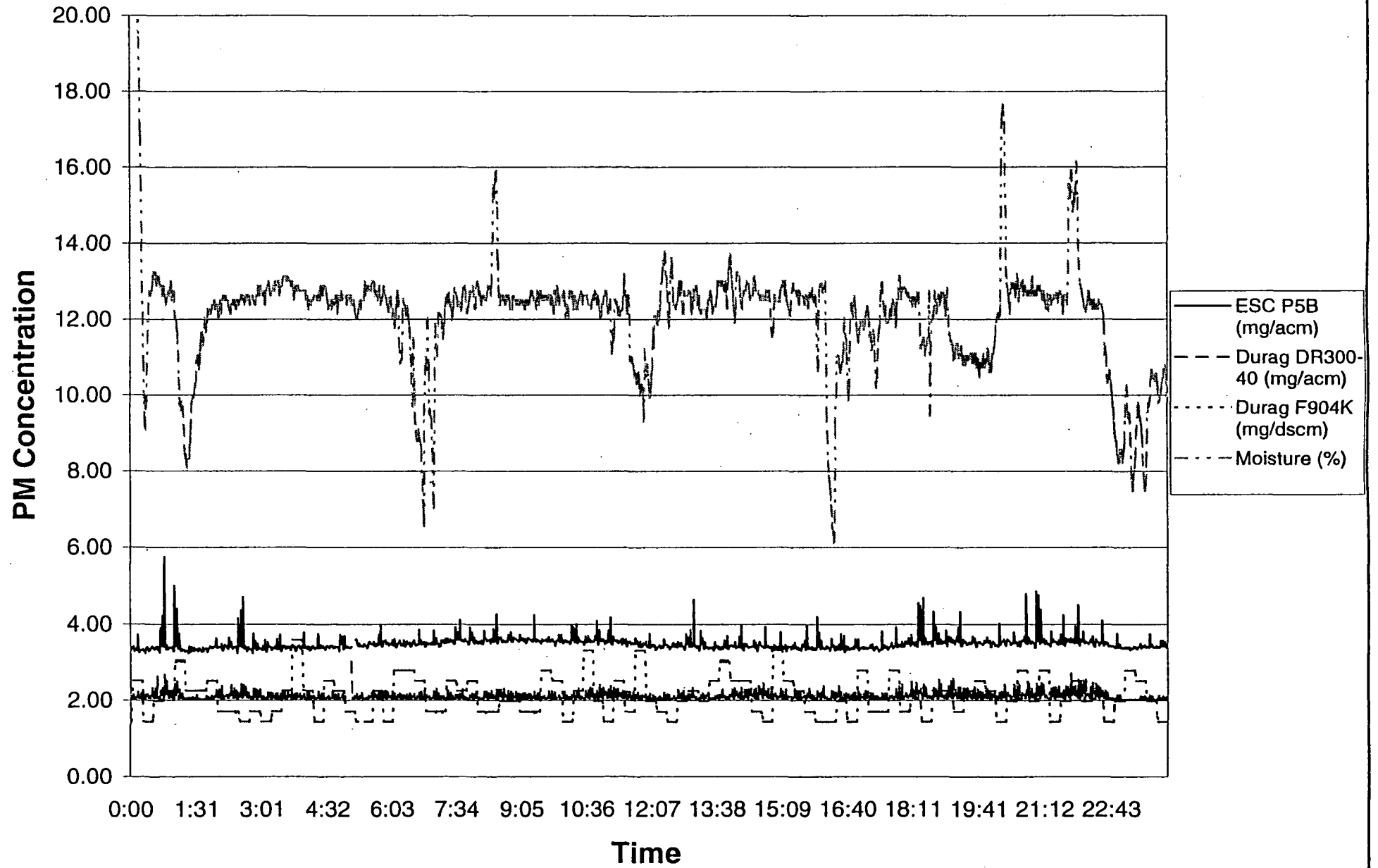
December 16, 1999



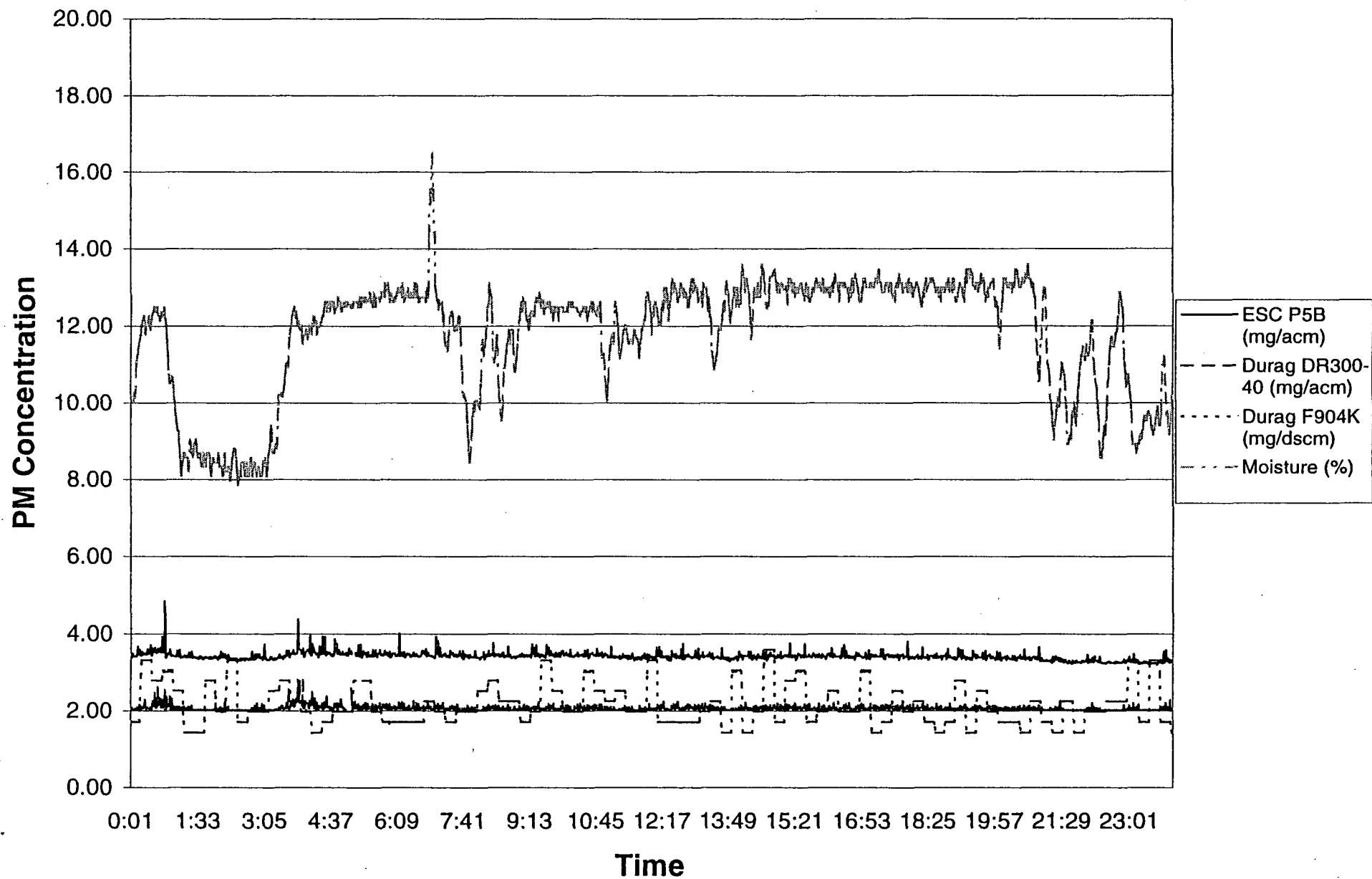
December 17, 1999



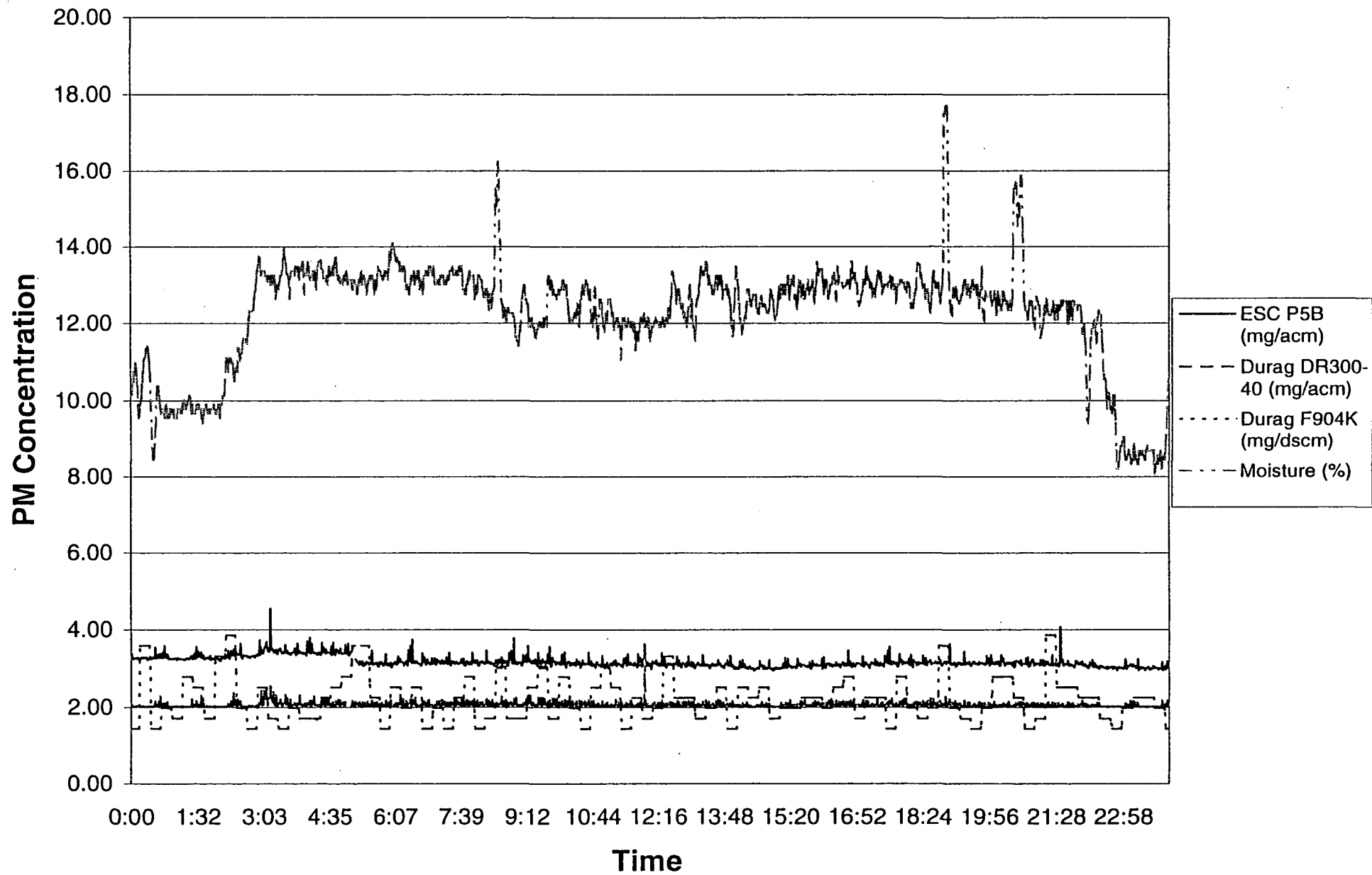
December 18, 1999



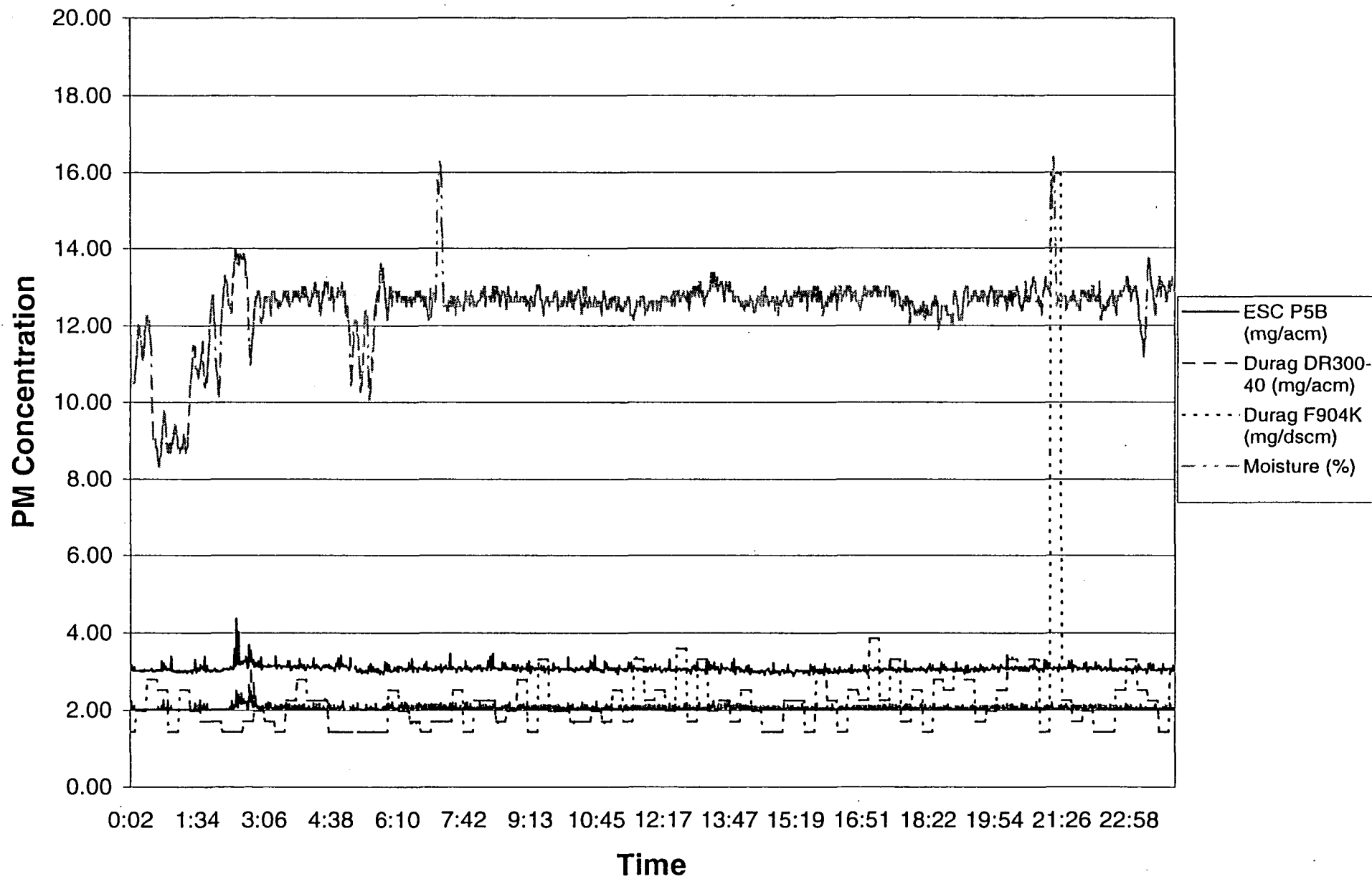
December 19, 1999



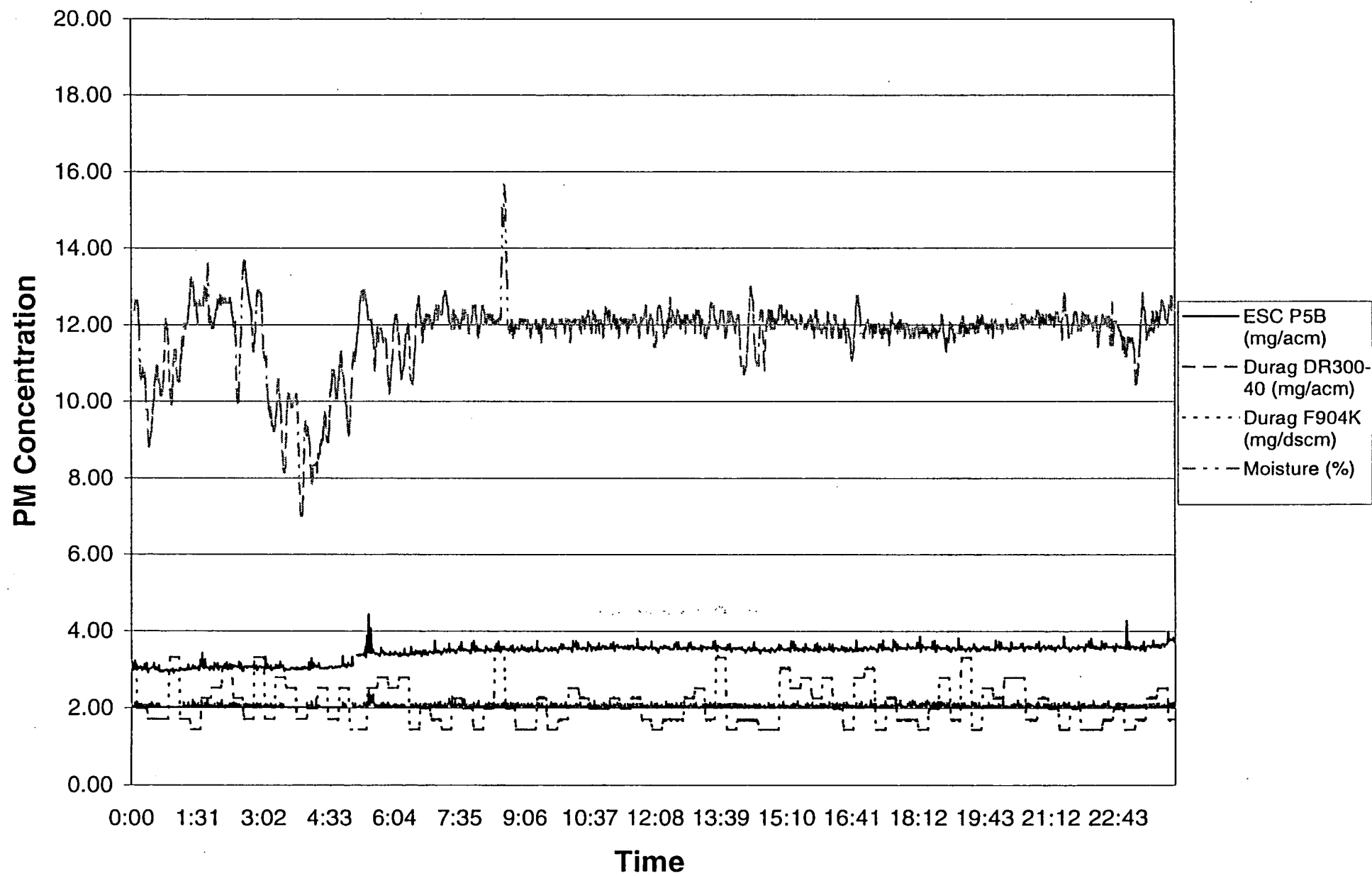
December 20, 1999



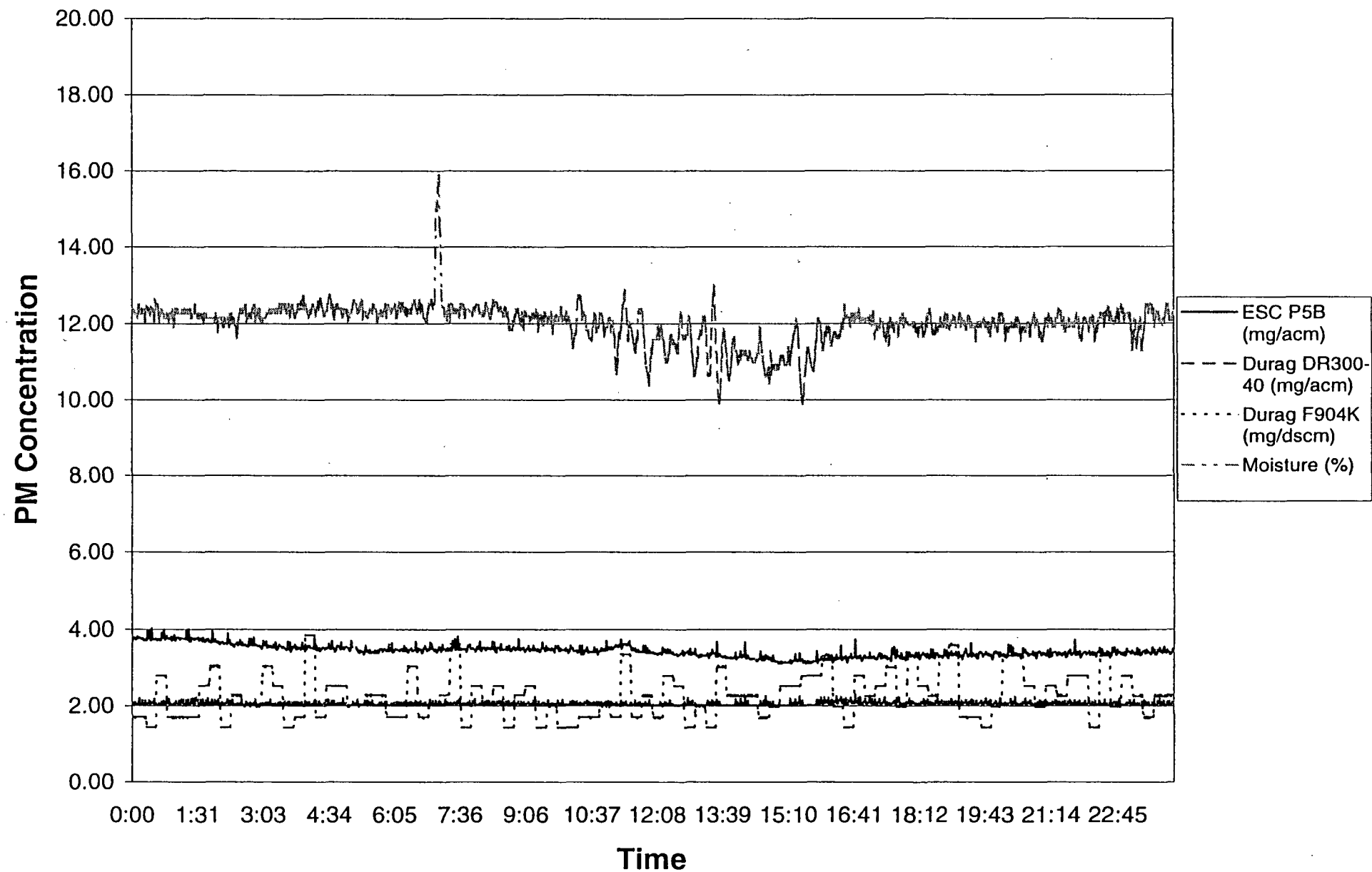
December 21, 1999



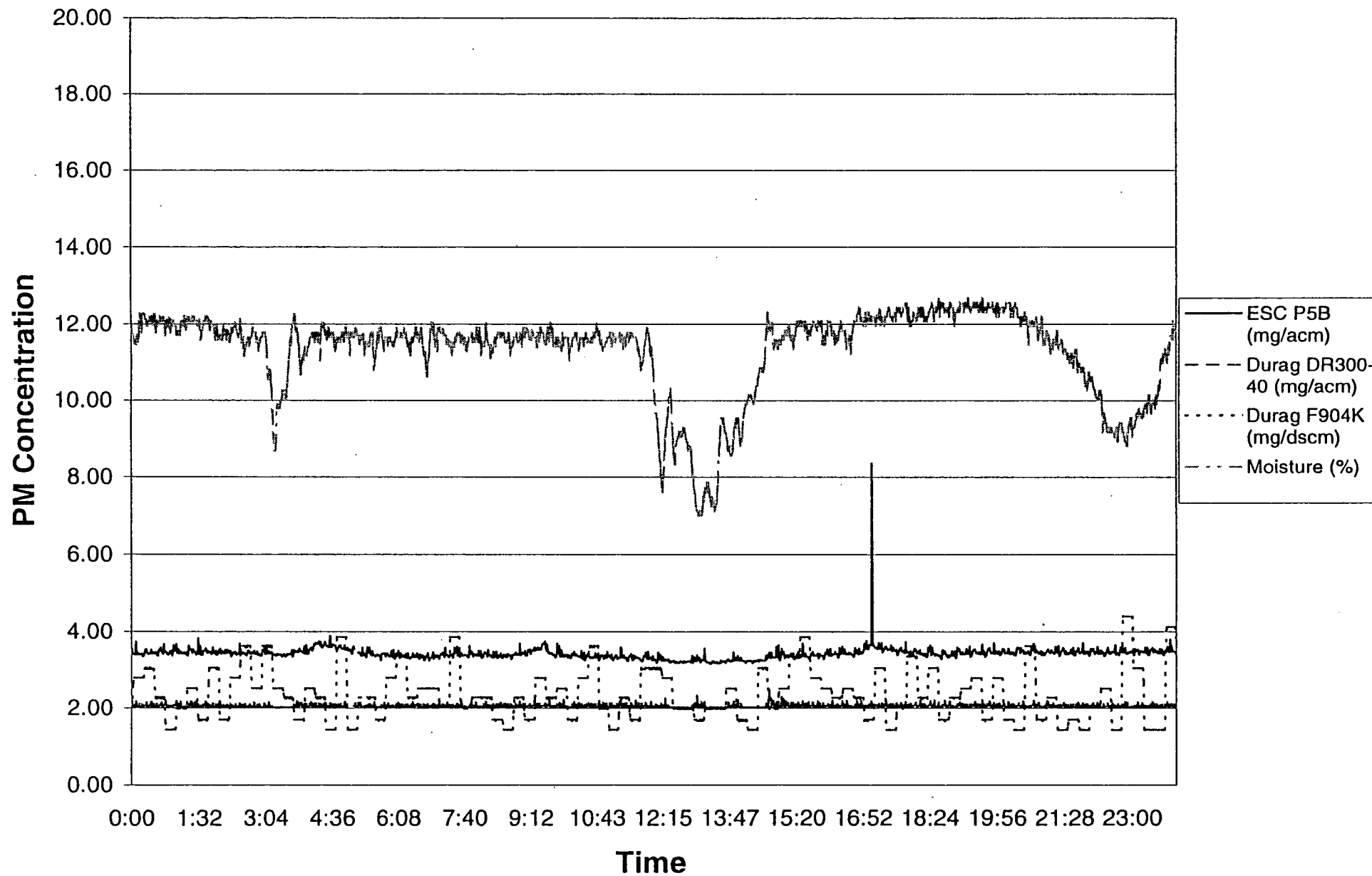
December 22, 1999



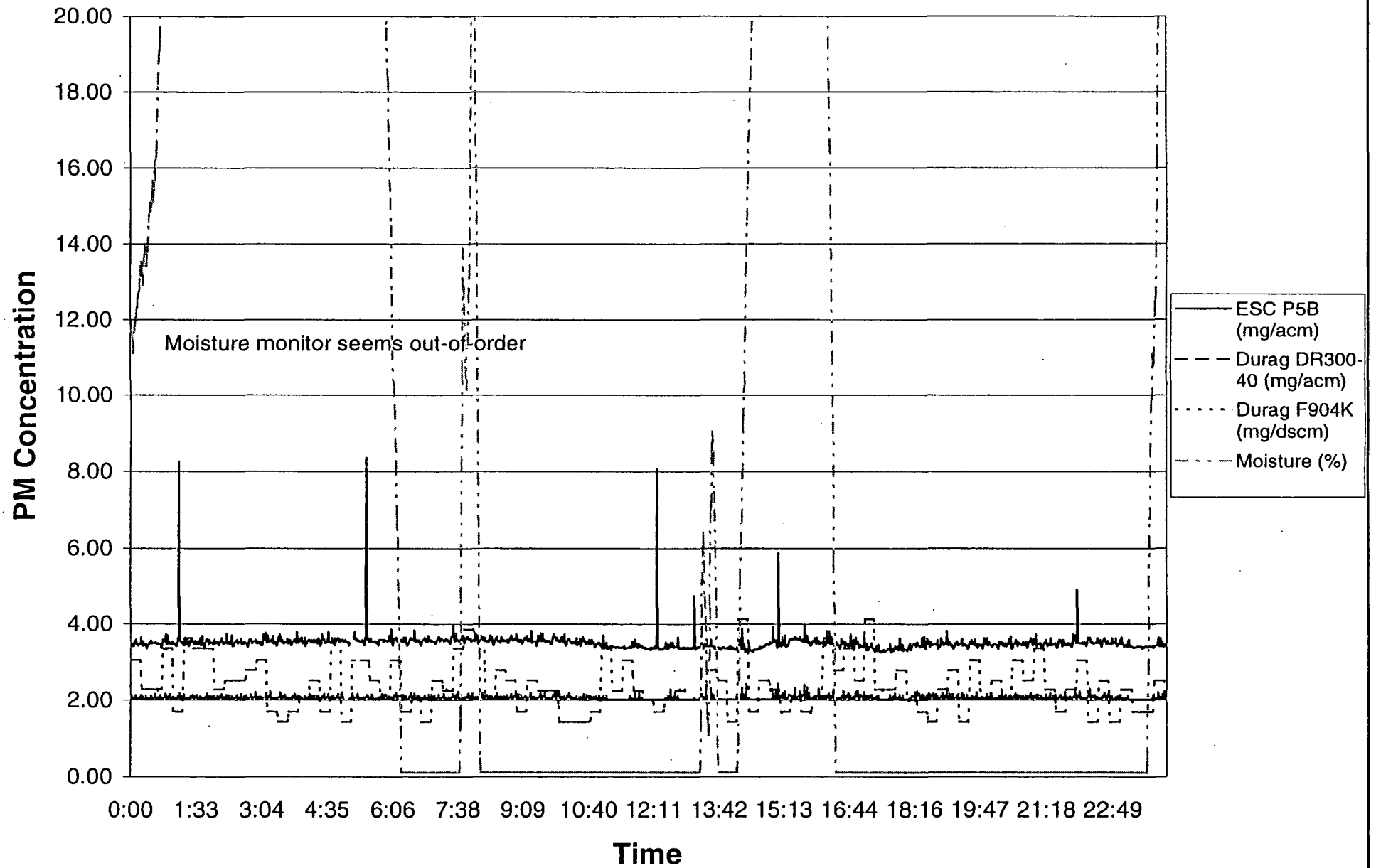
December 23, 1999



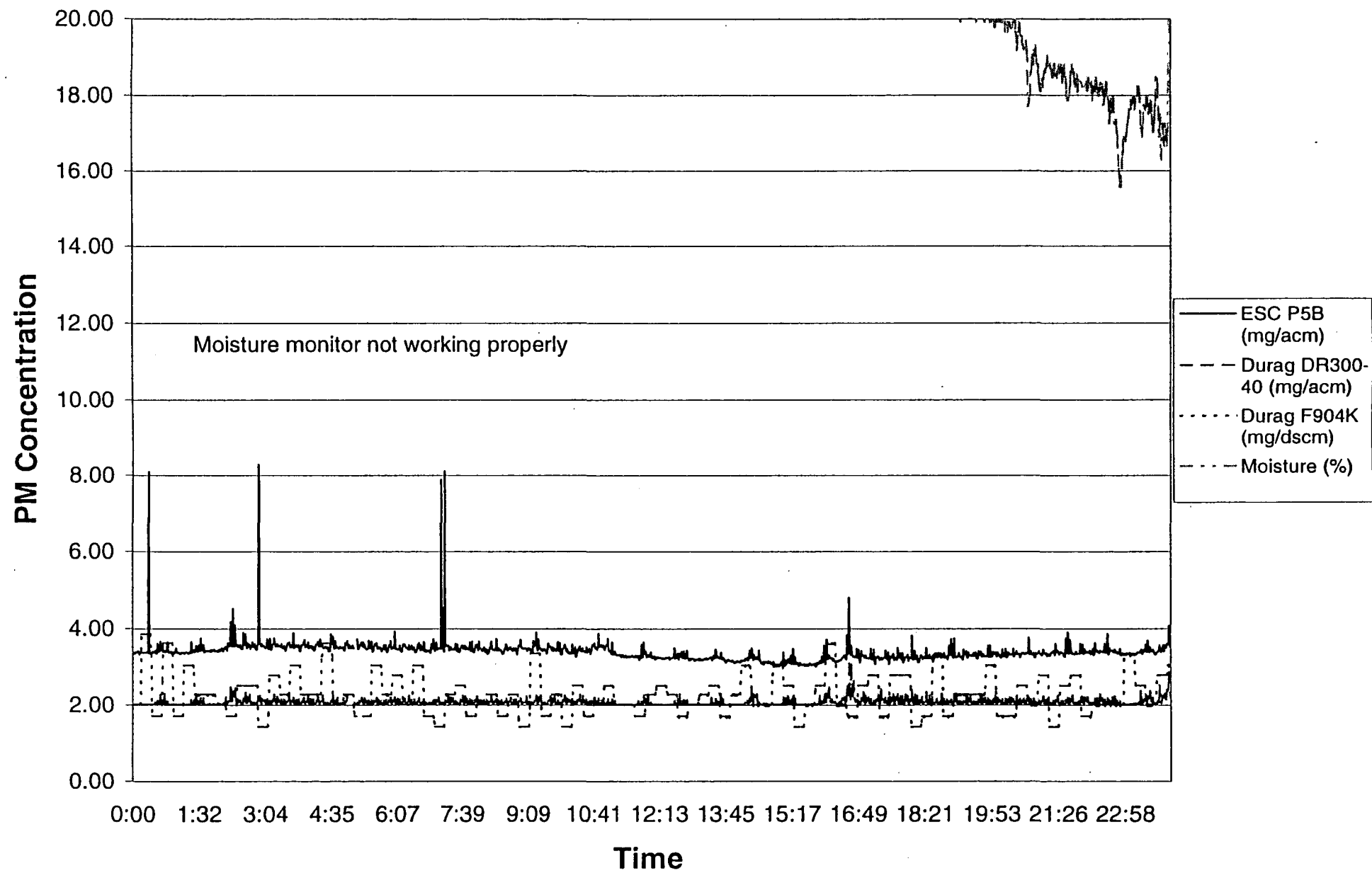
December 24, 1999



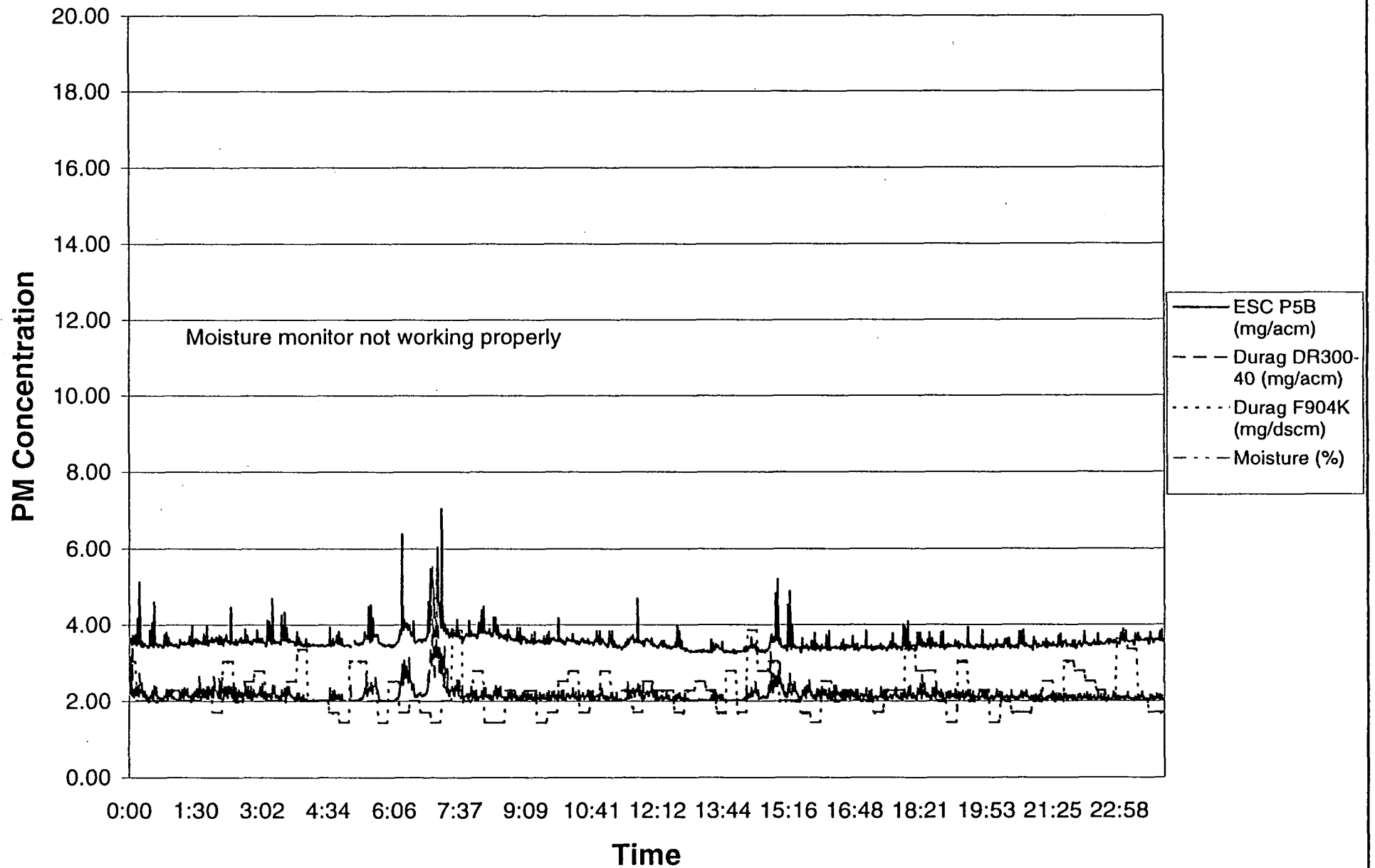
December 25, 1999



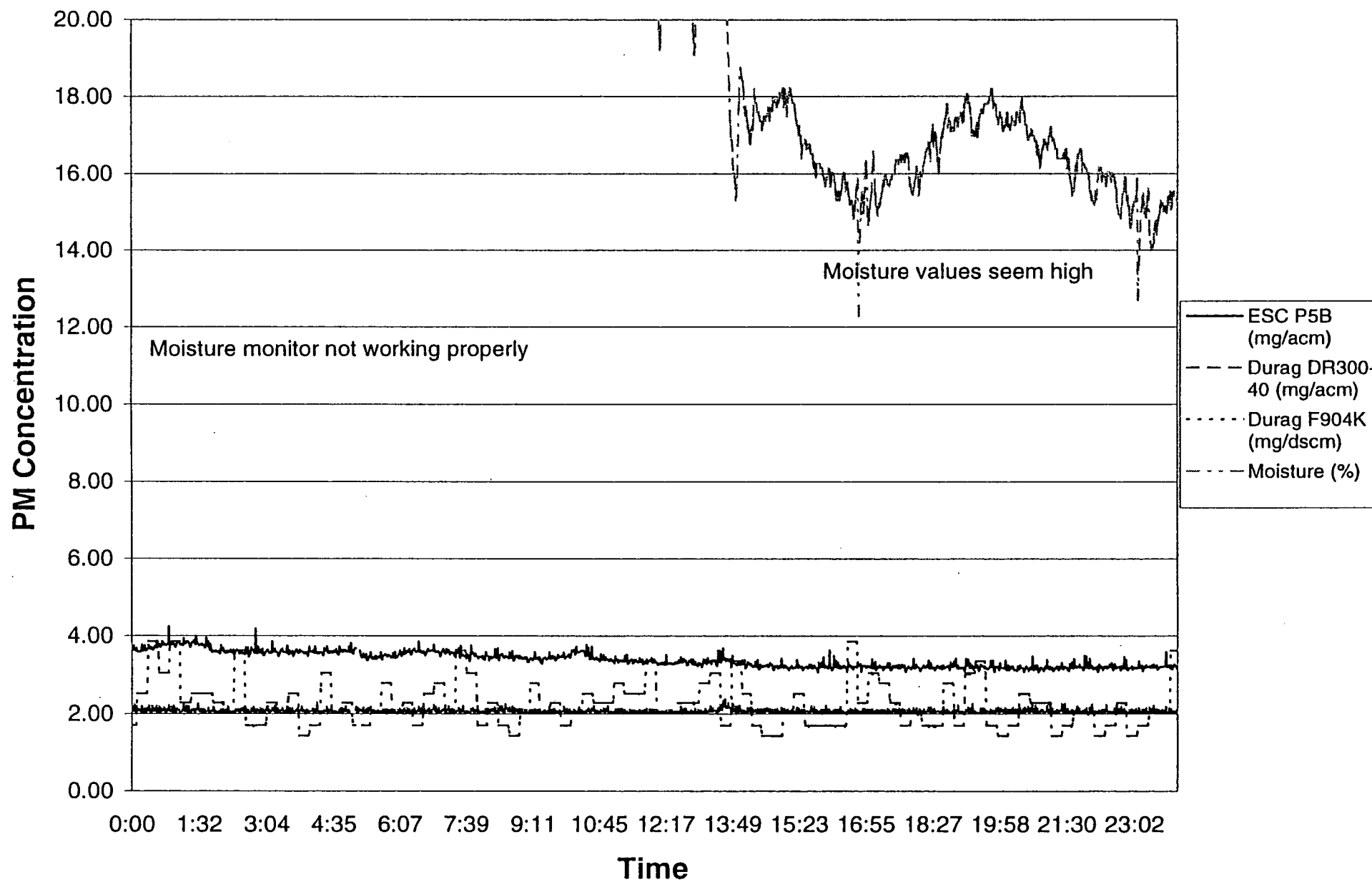
December 26, 1999



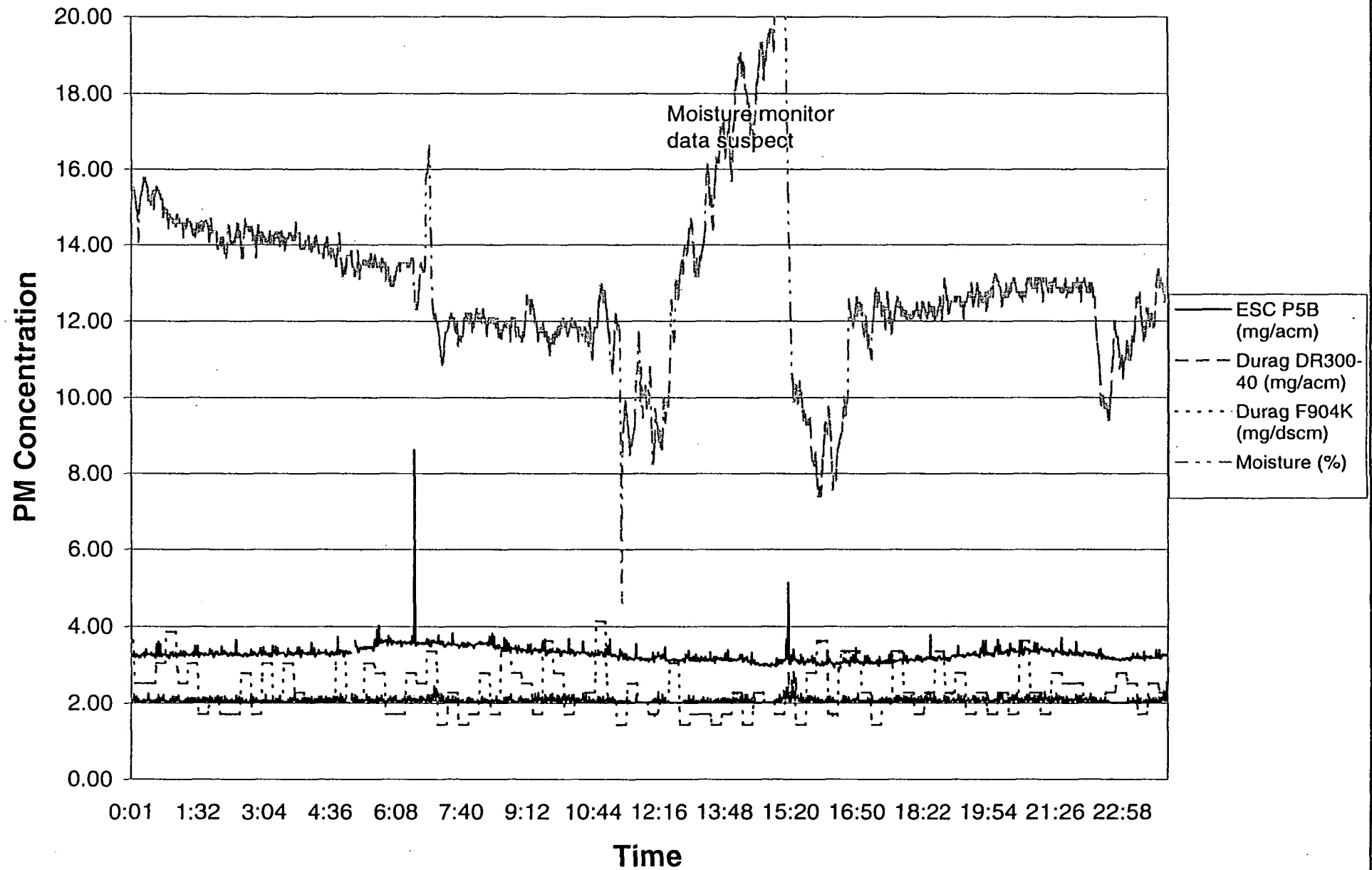
December 27, 1999



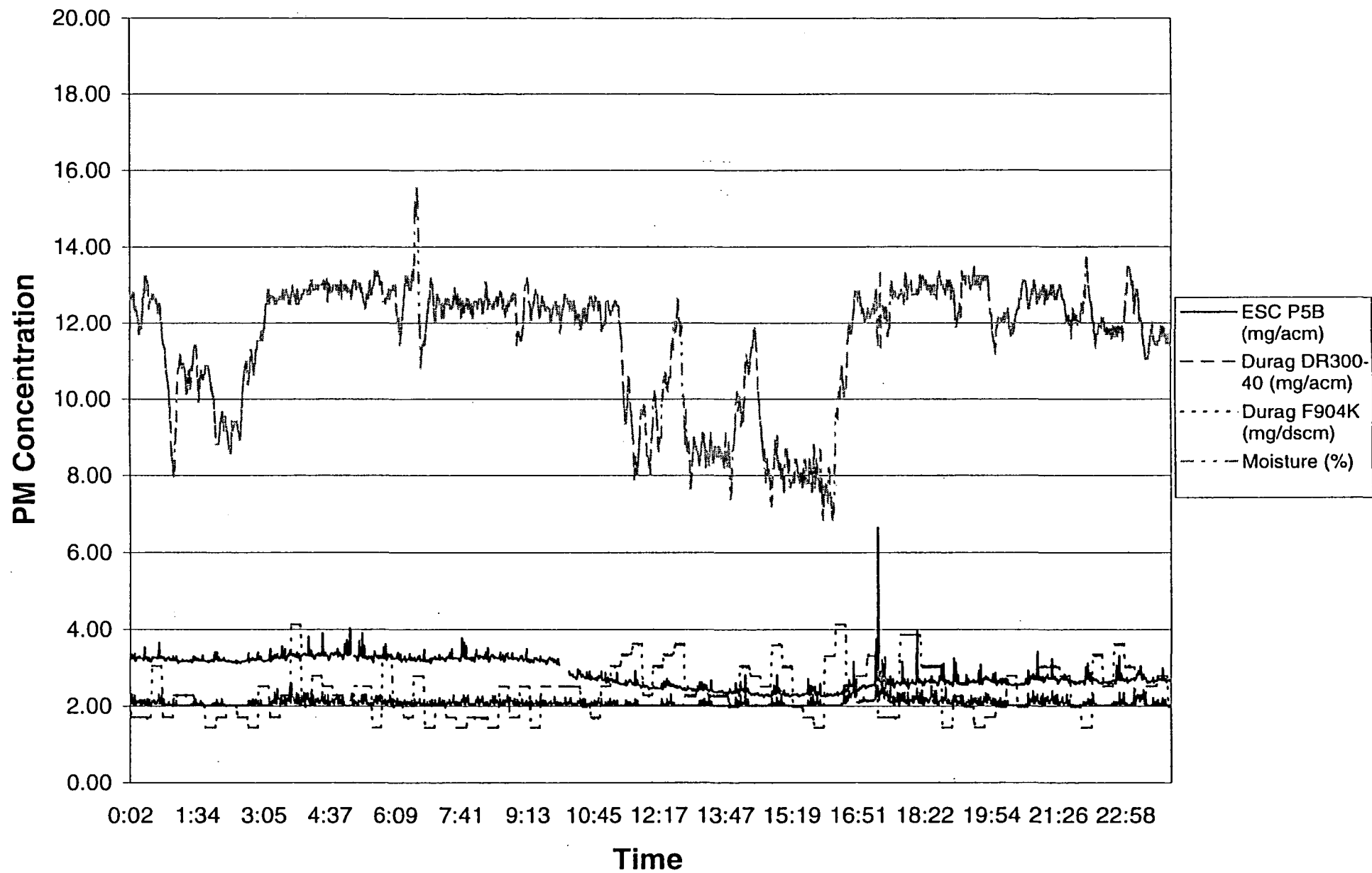
December 28, 1999



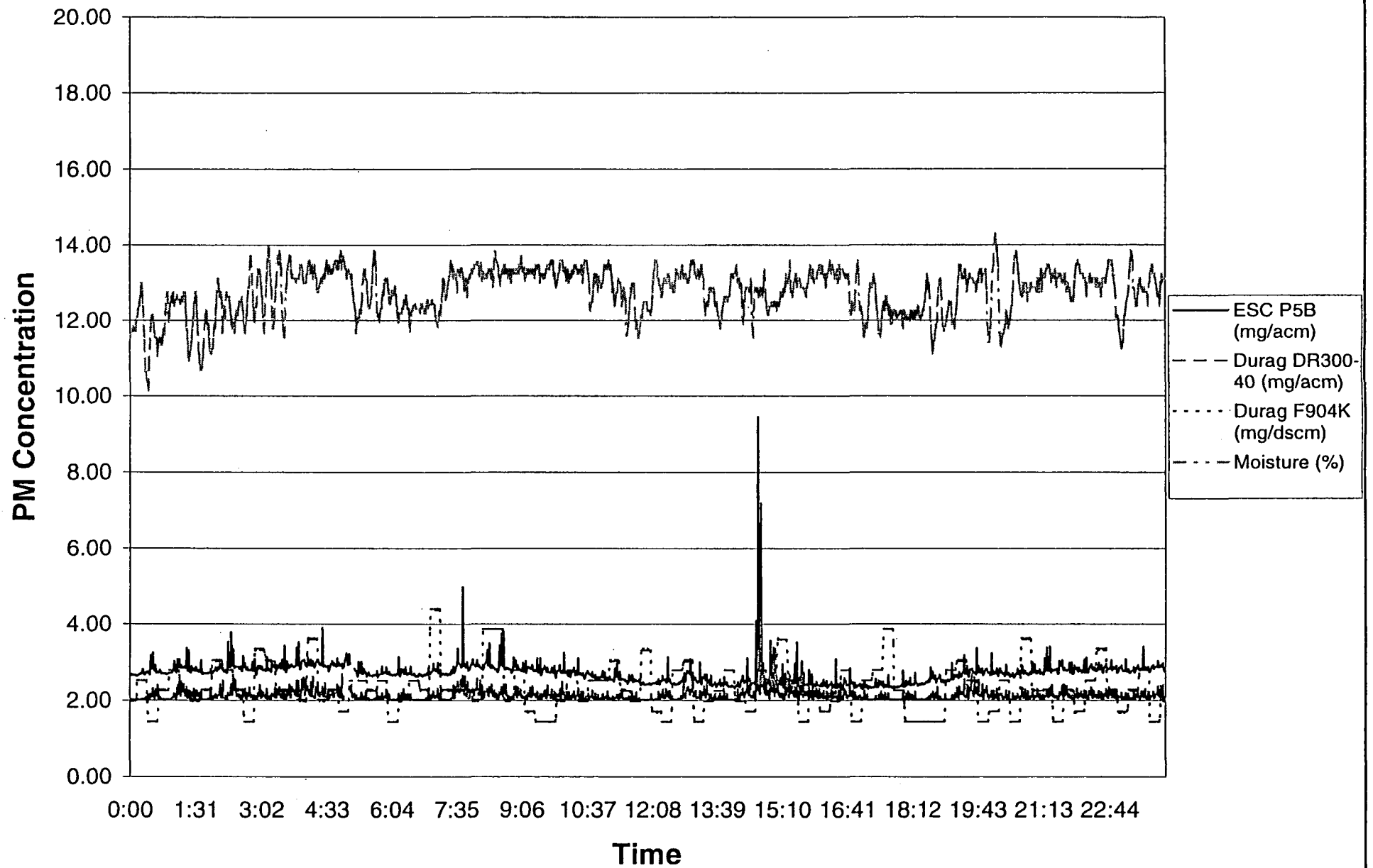
December 29, 1999



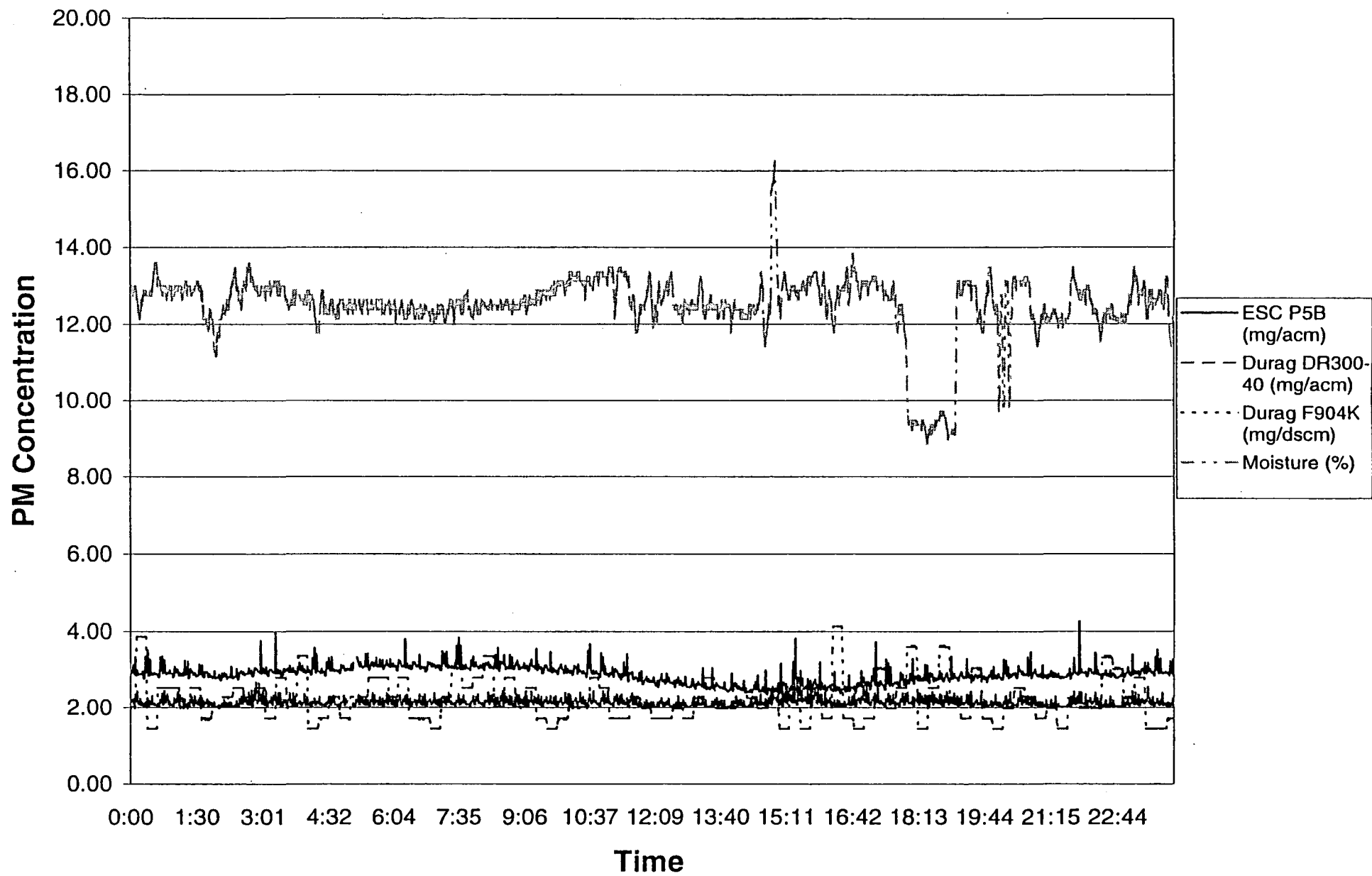
December 30, 1999



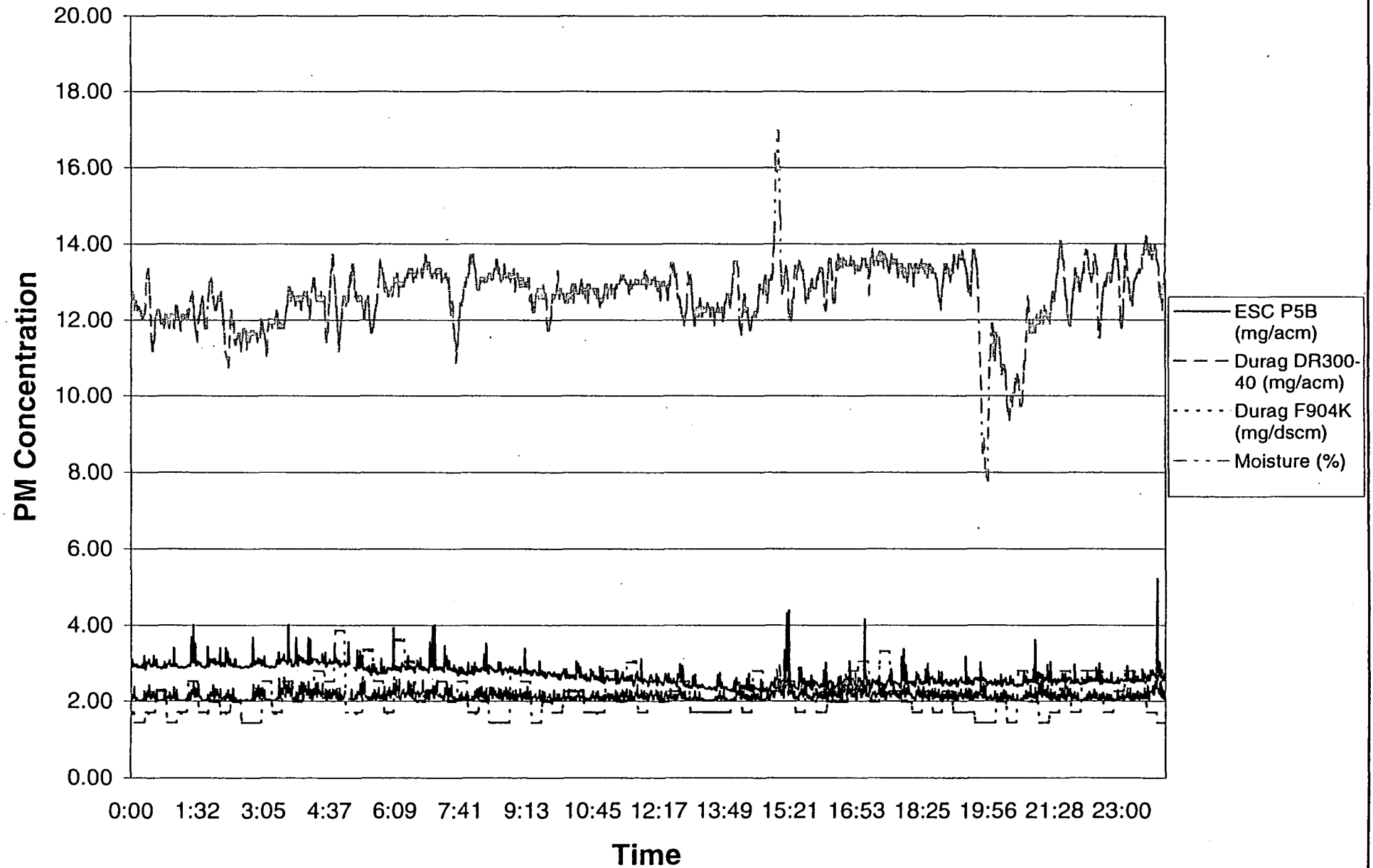
December 31, 1999



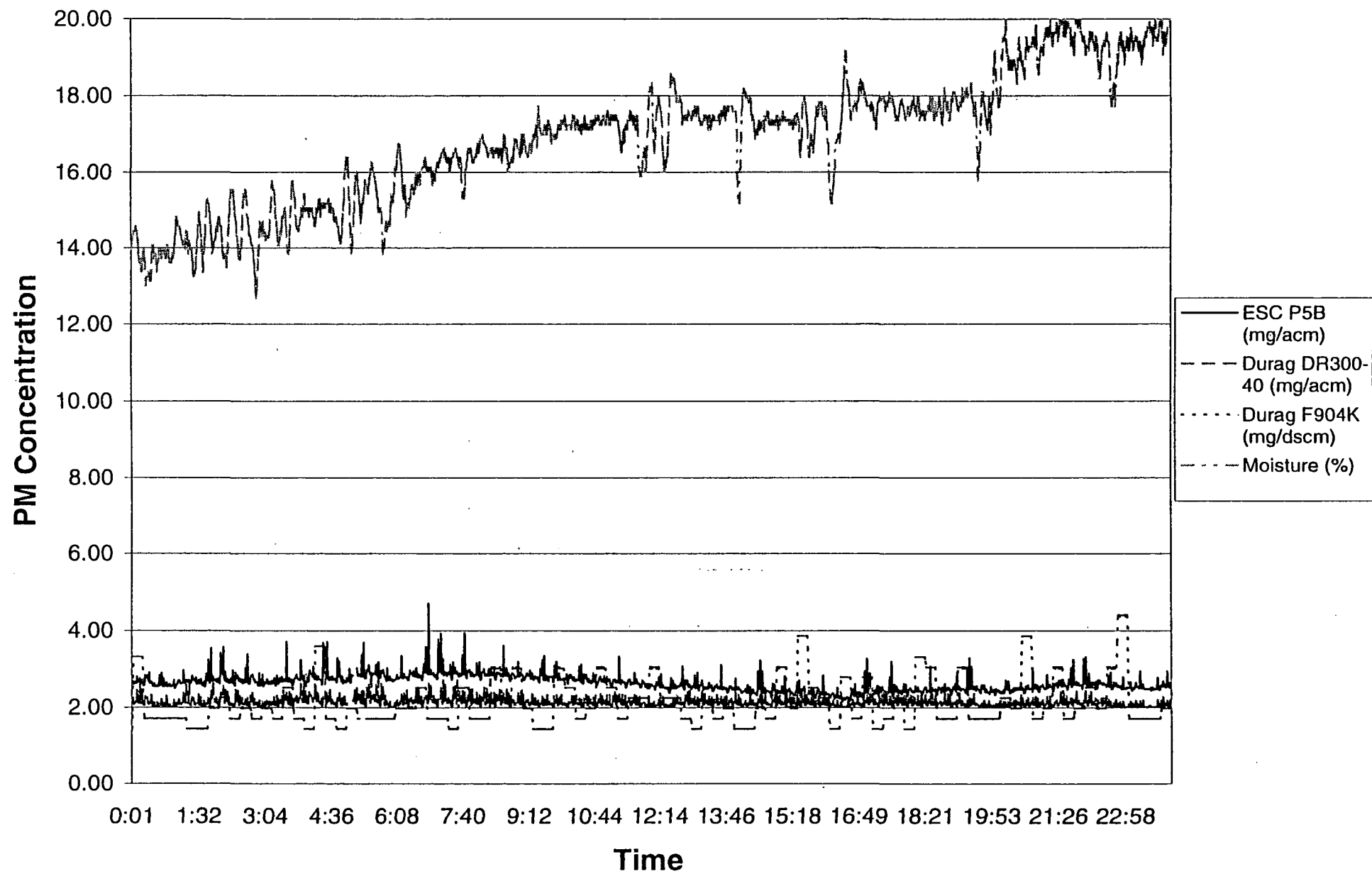
January 1, 2000



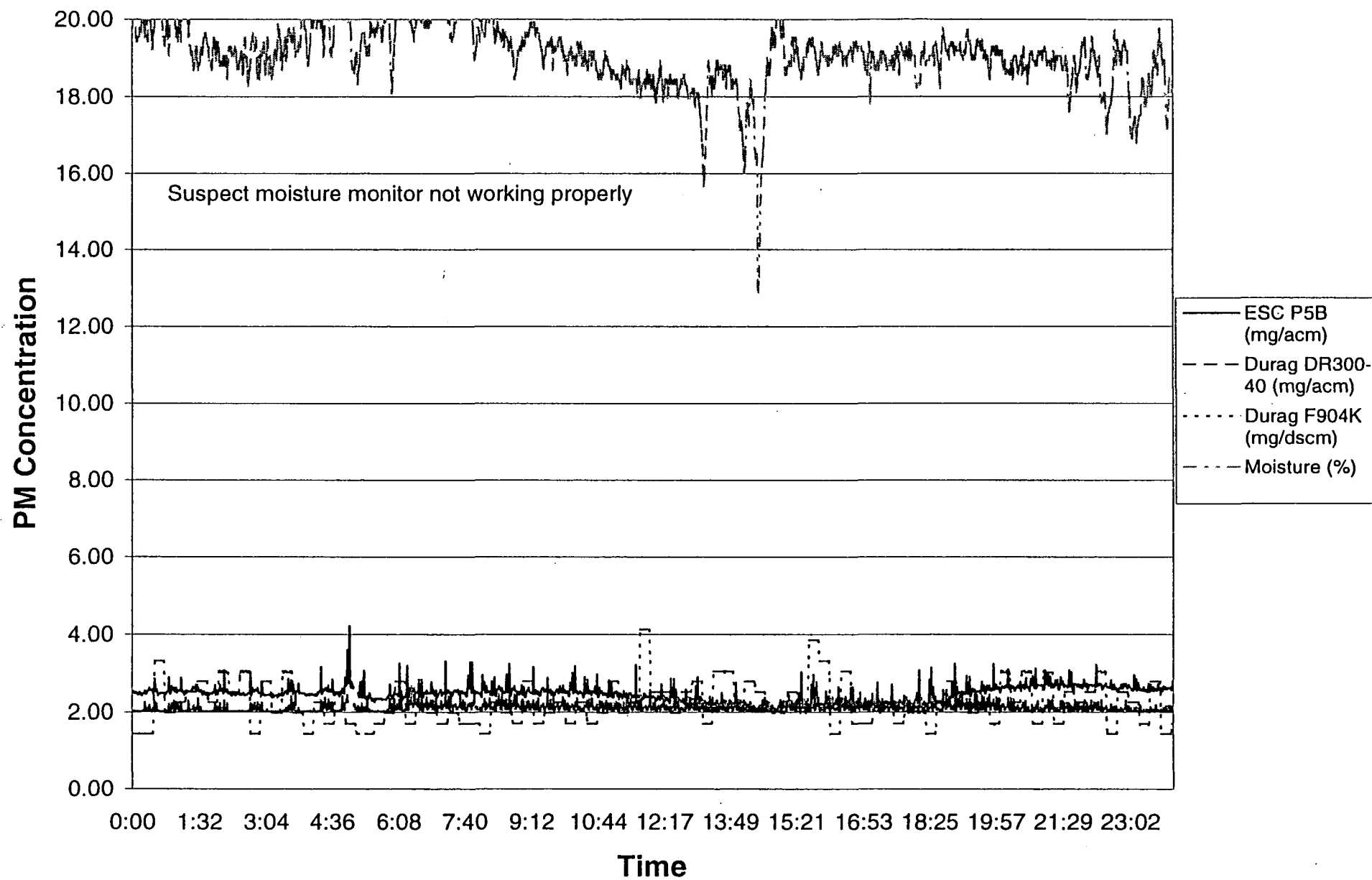
January 2, 2000



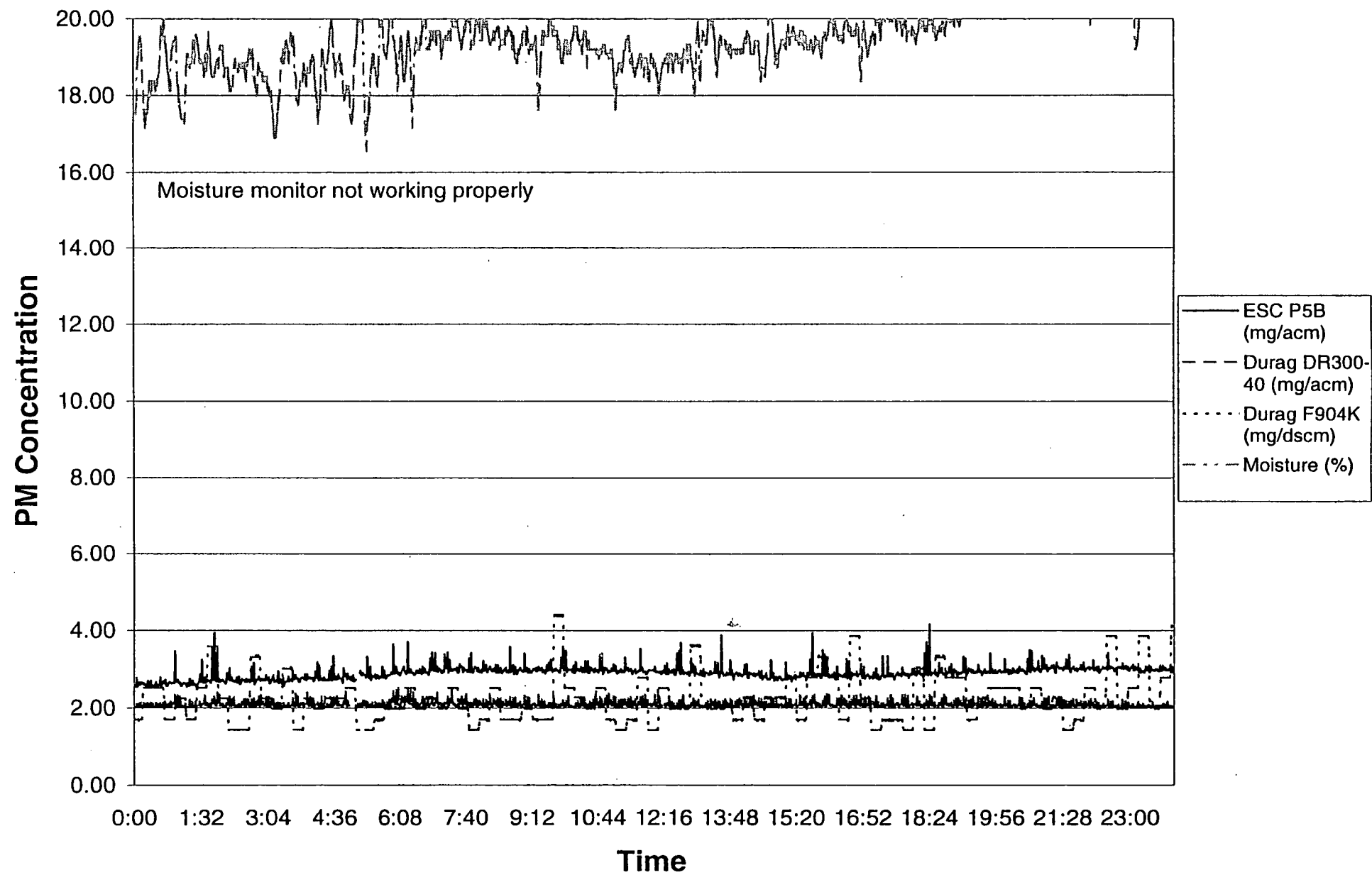
January 3, 2000



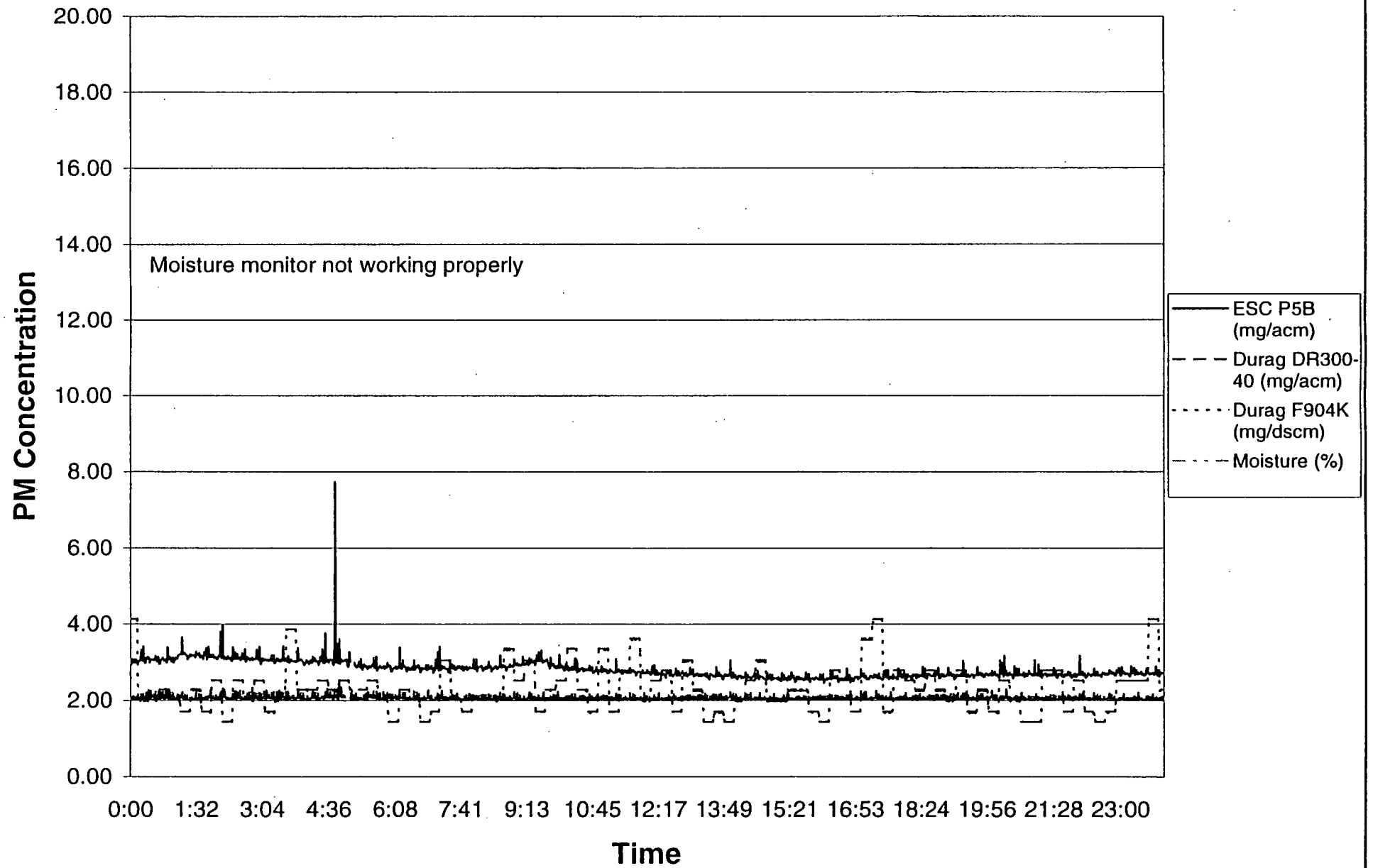
January 4, 2000



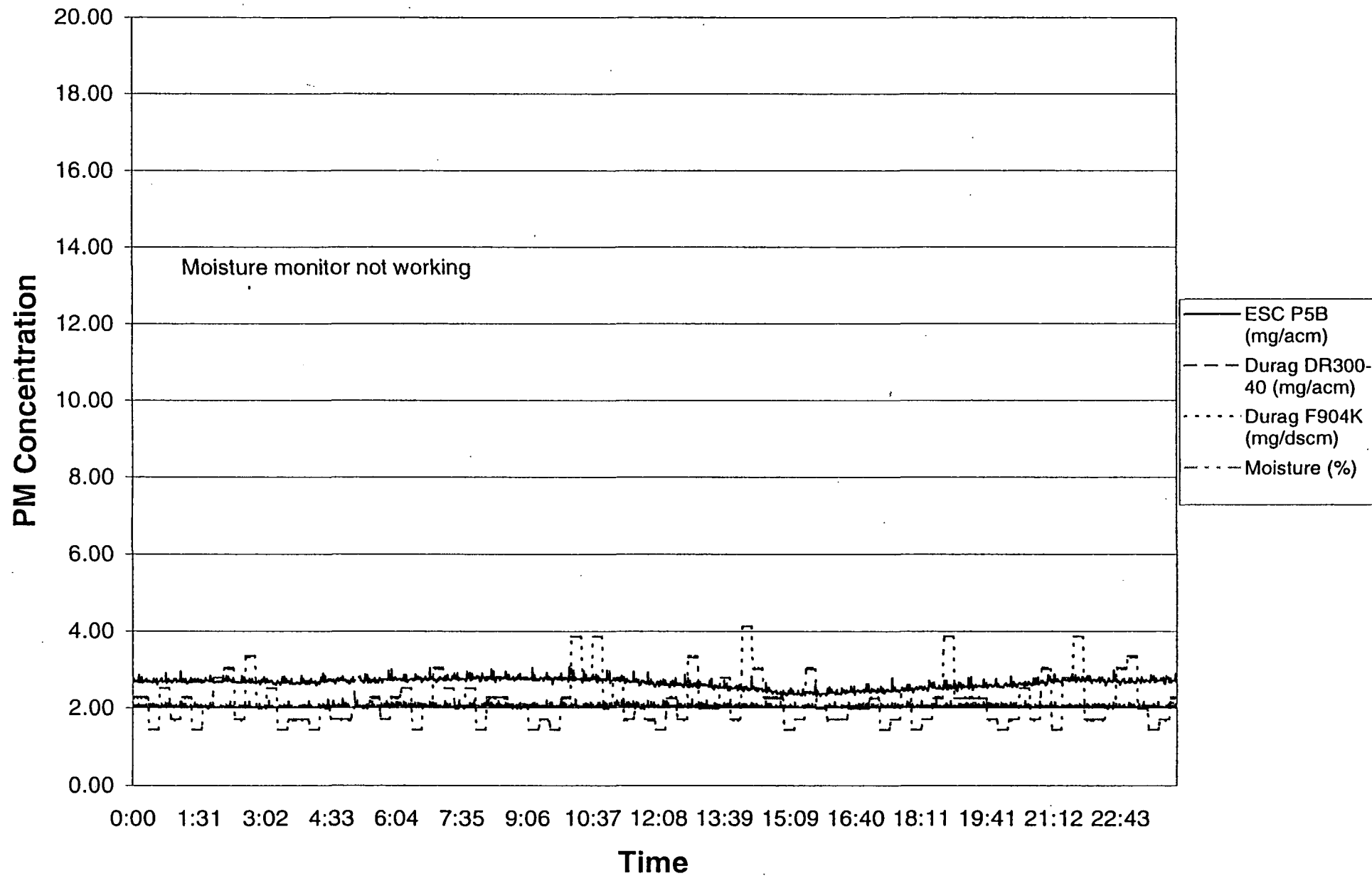
January 5, 2000



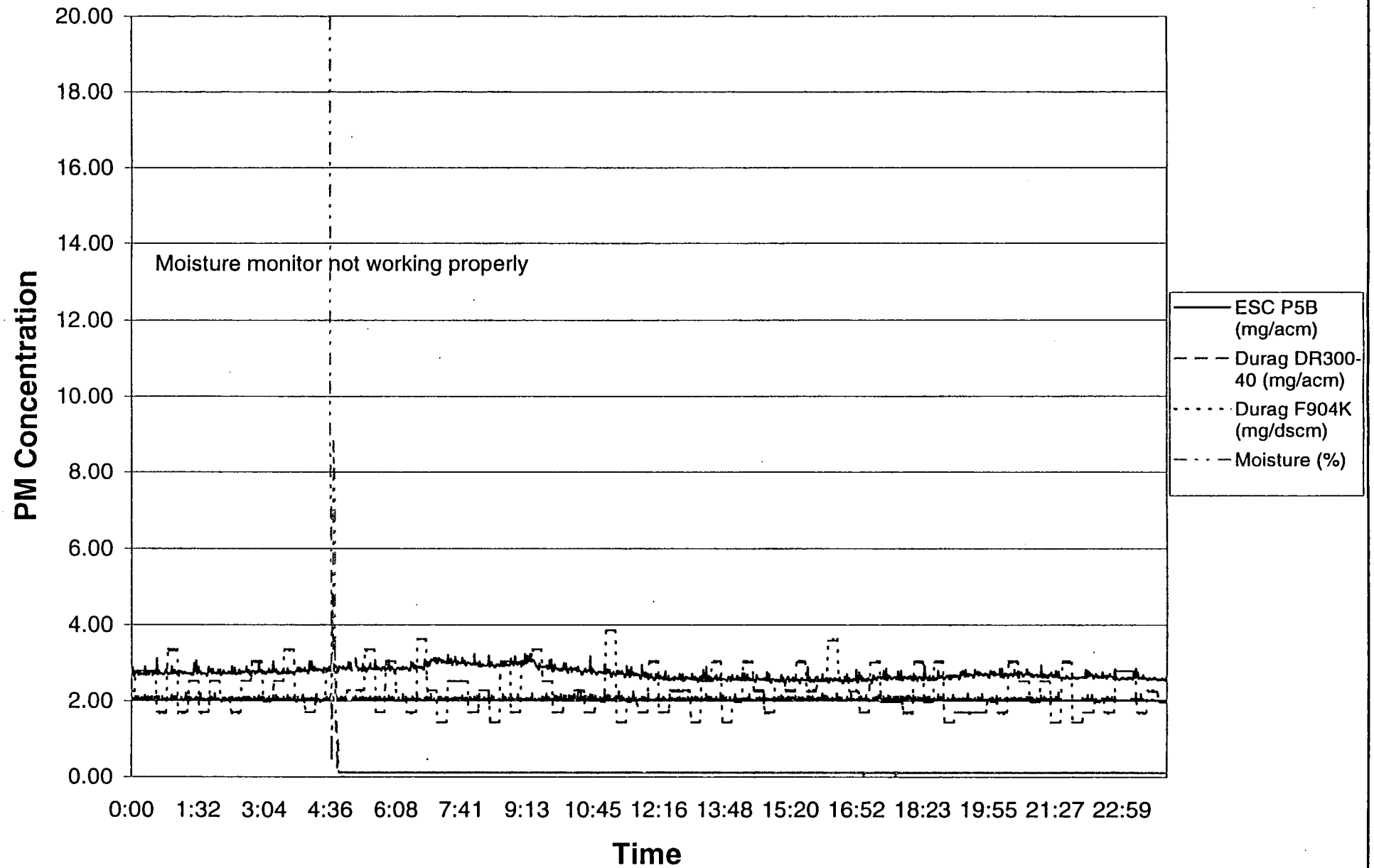
January 6, 2000



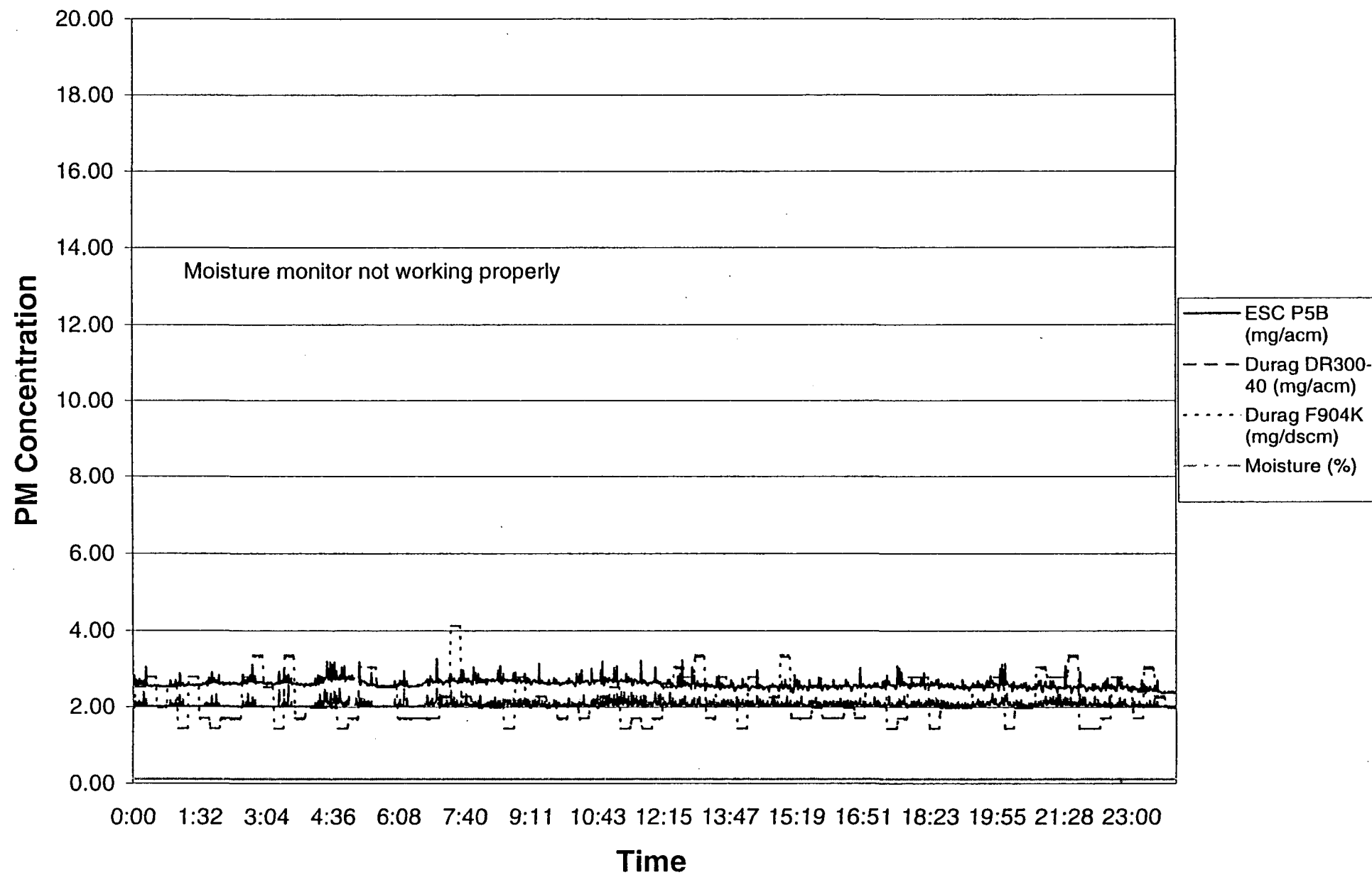
January 7, 2000



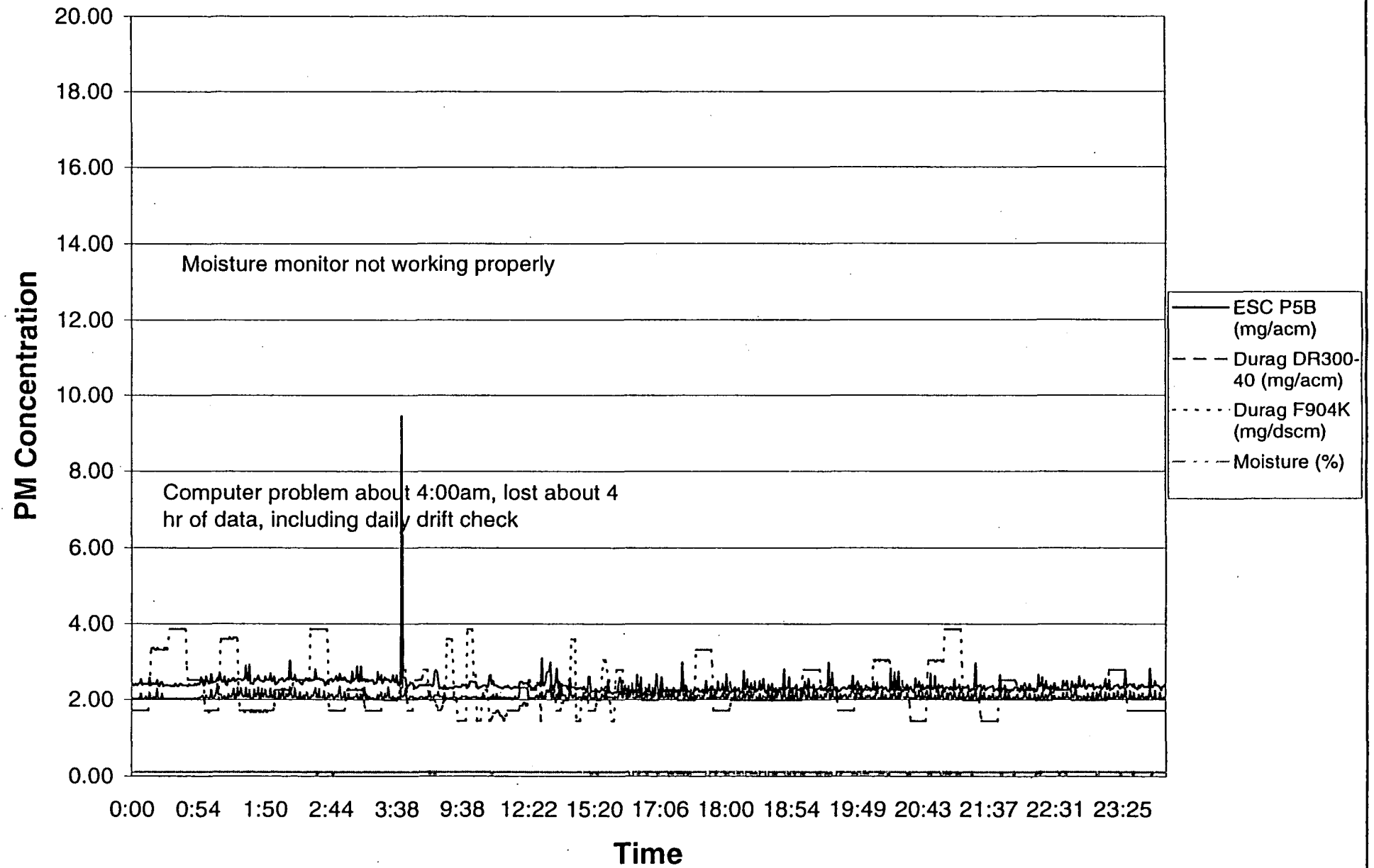
January 8, 2000



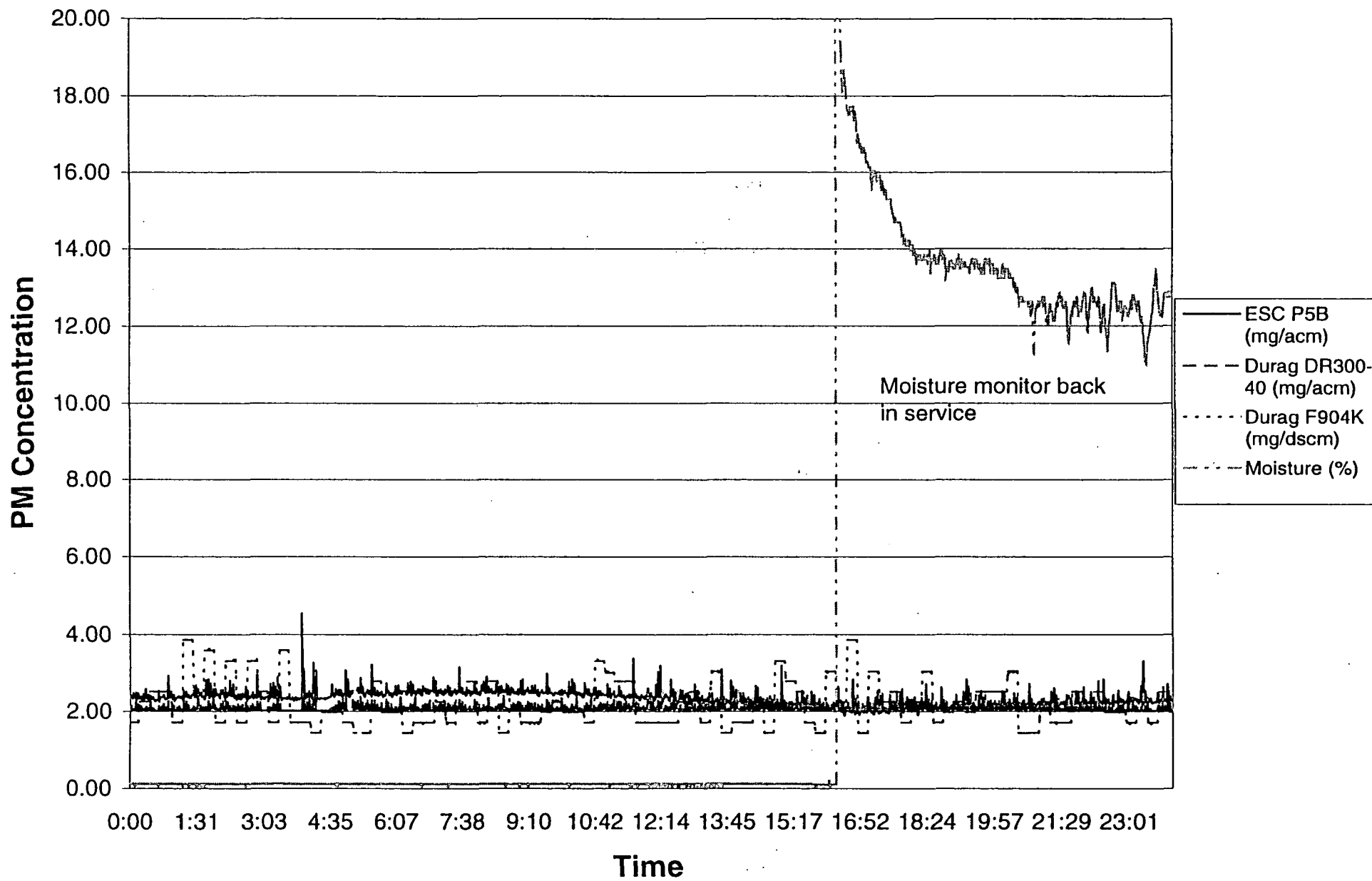
January 9, 2000



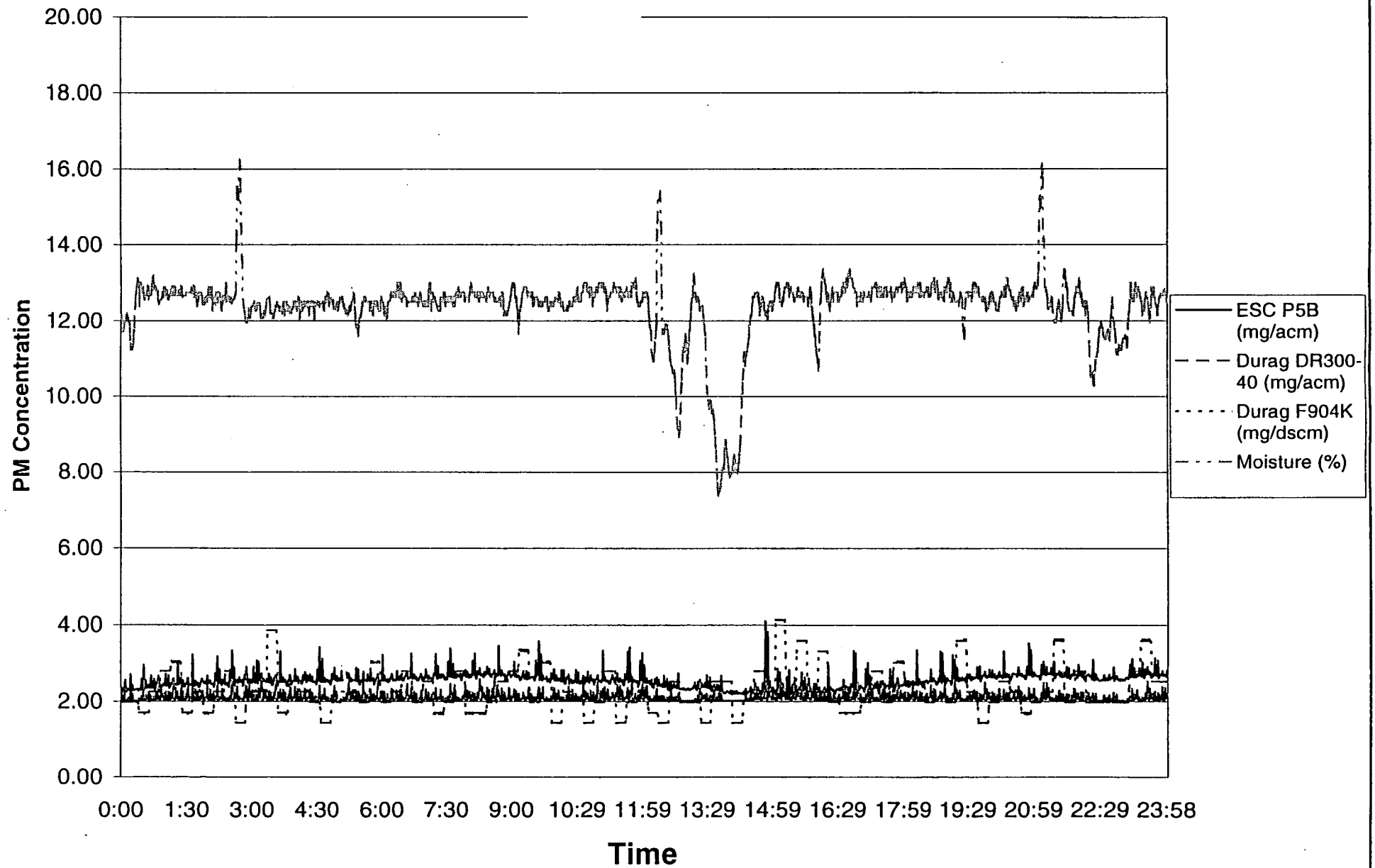
January 10, 2000



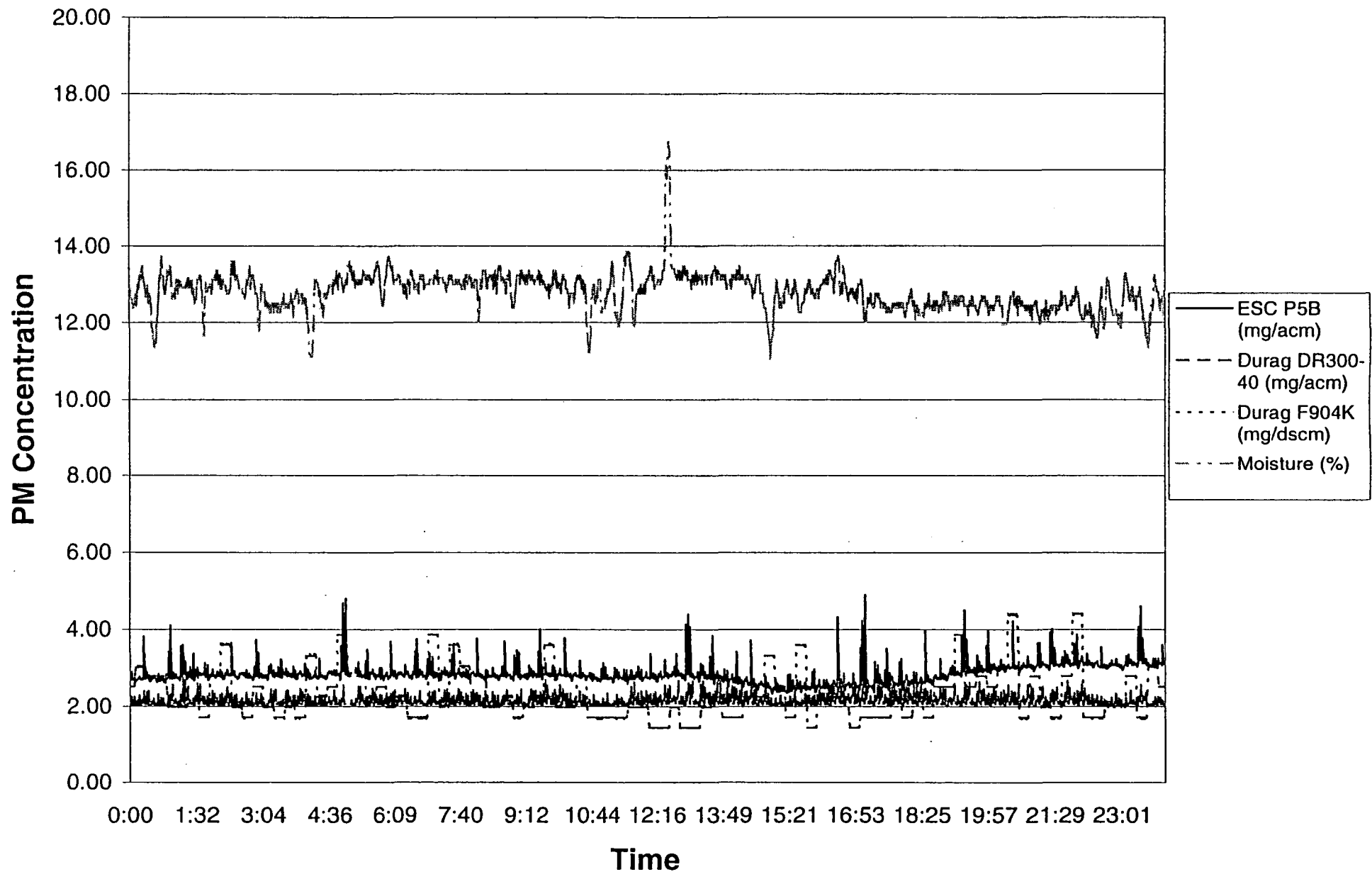
January 11, 2000



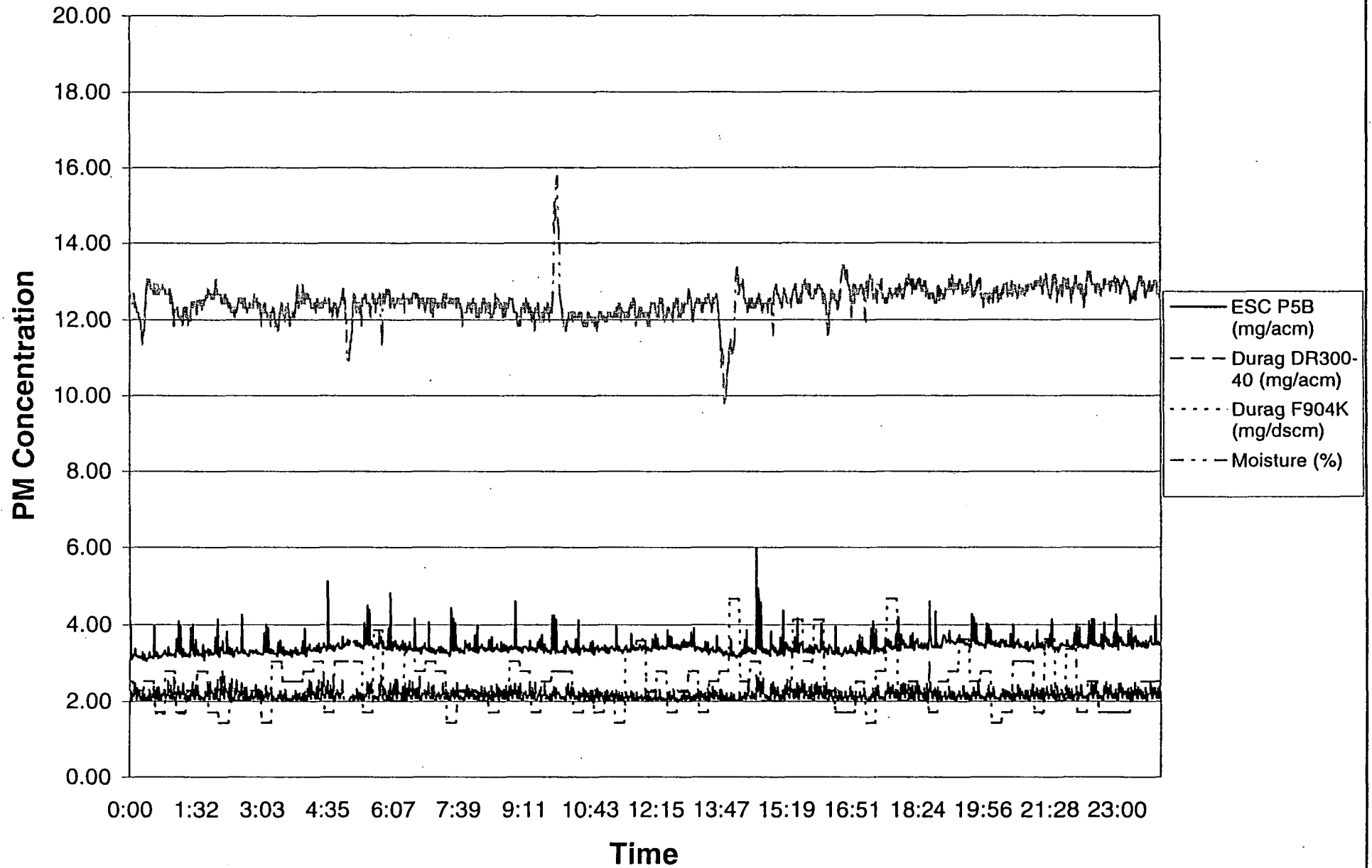
January 12, 2000



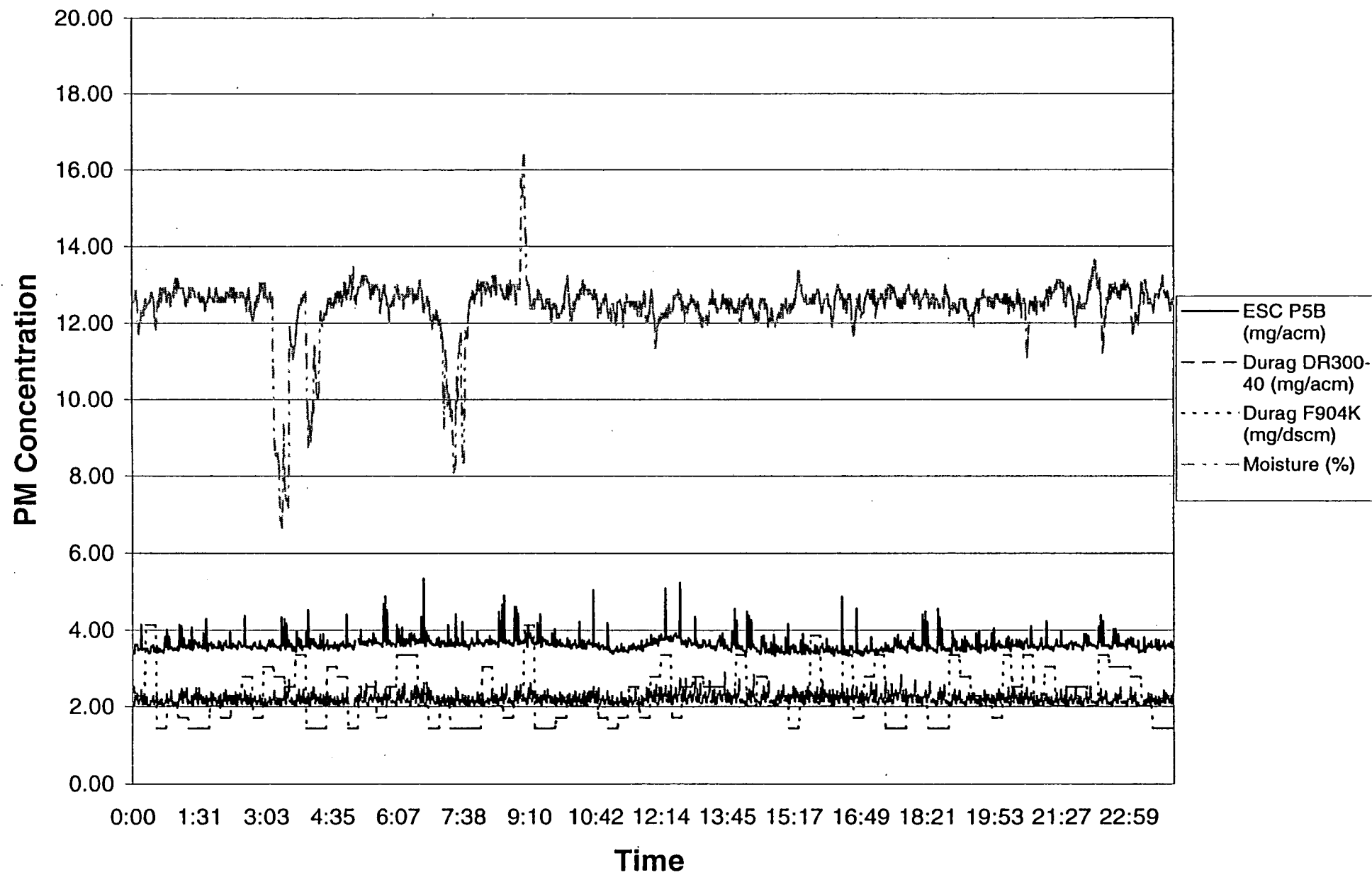
January 13, 2000



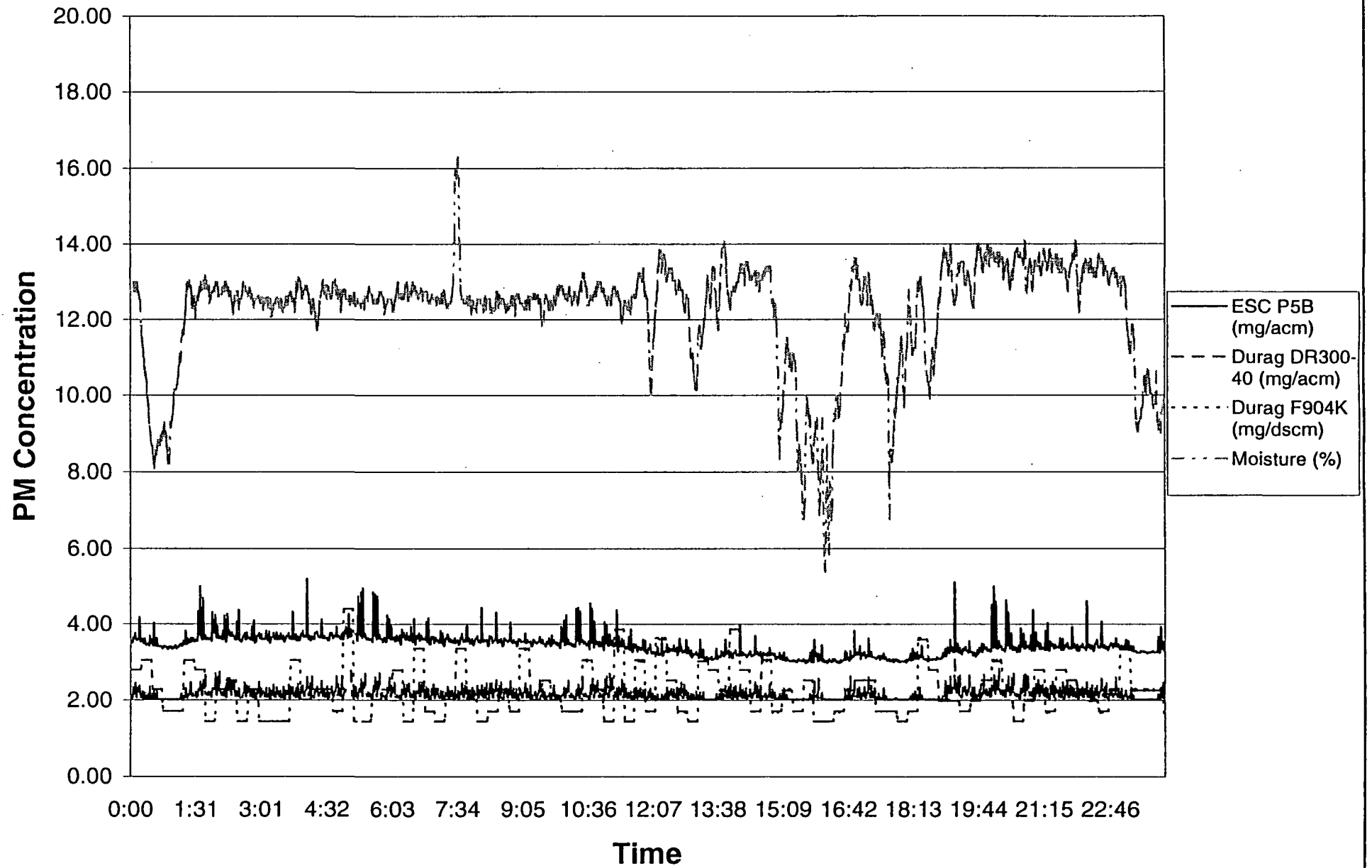
January 14, 2000



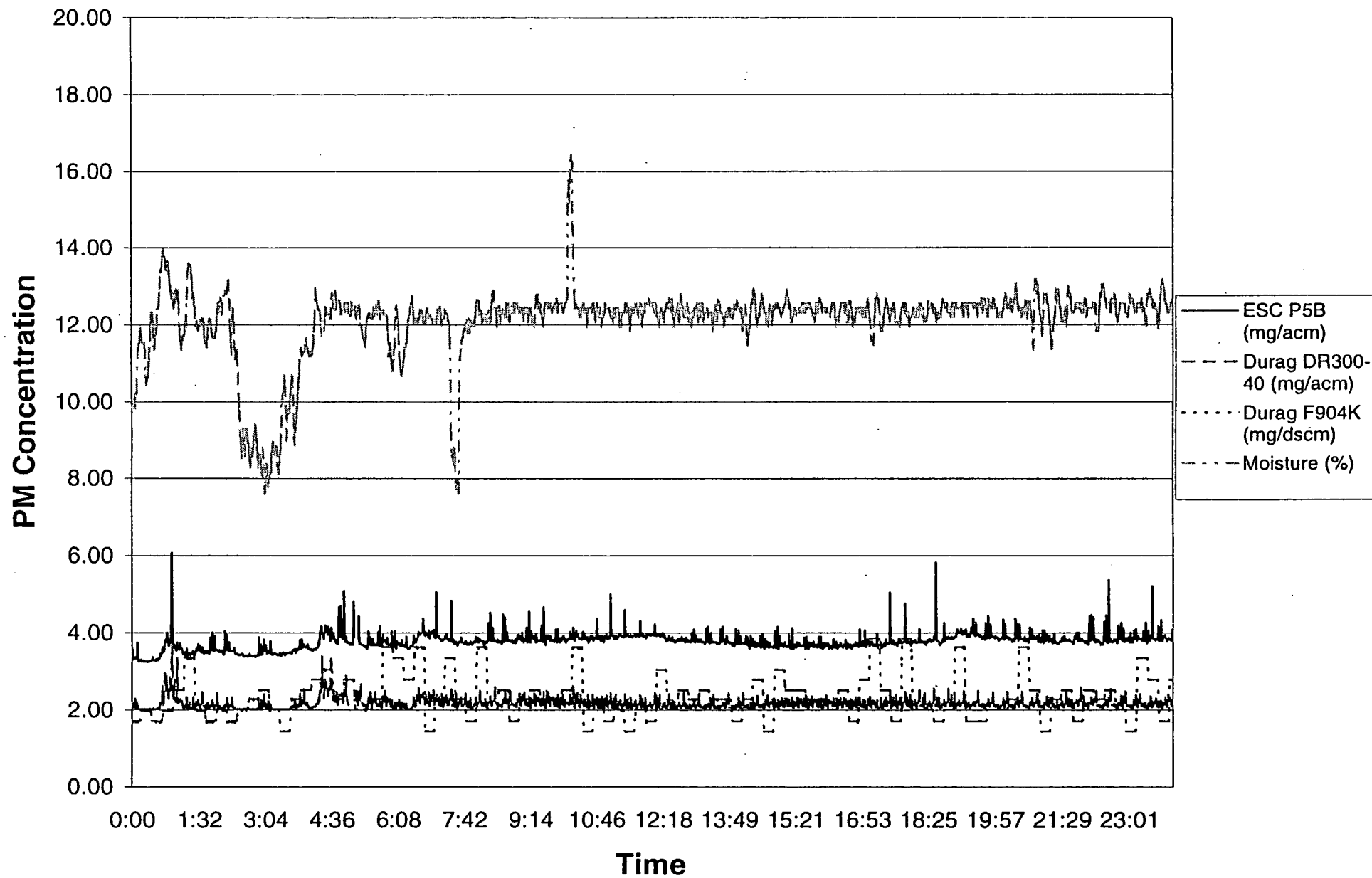
January 15, 2000



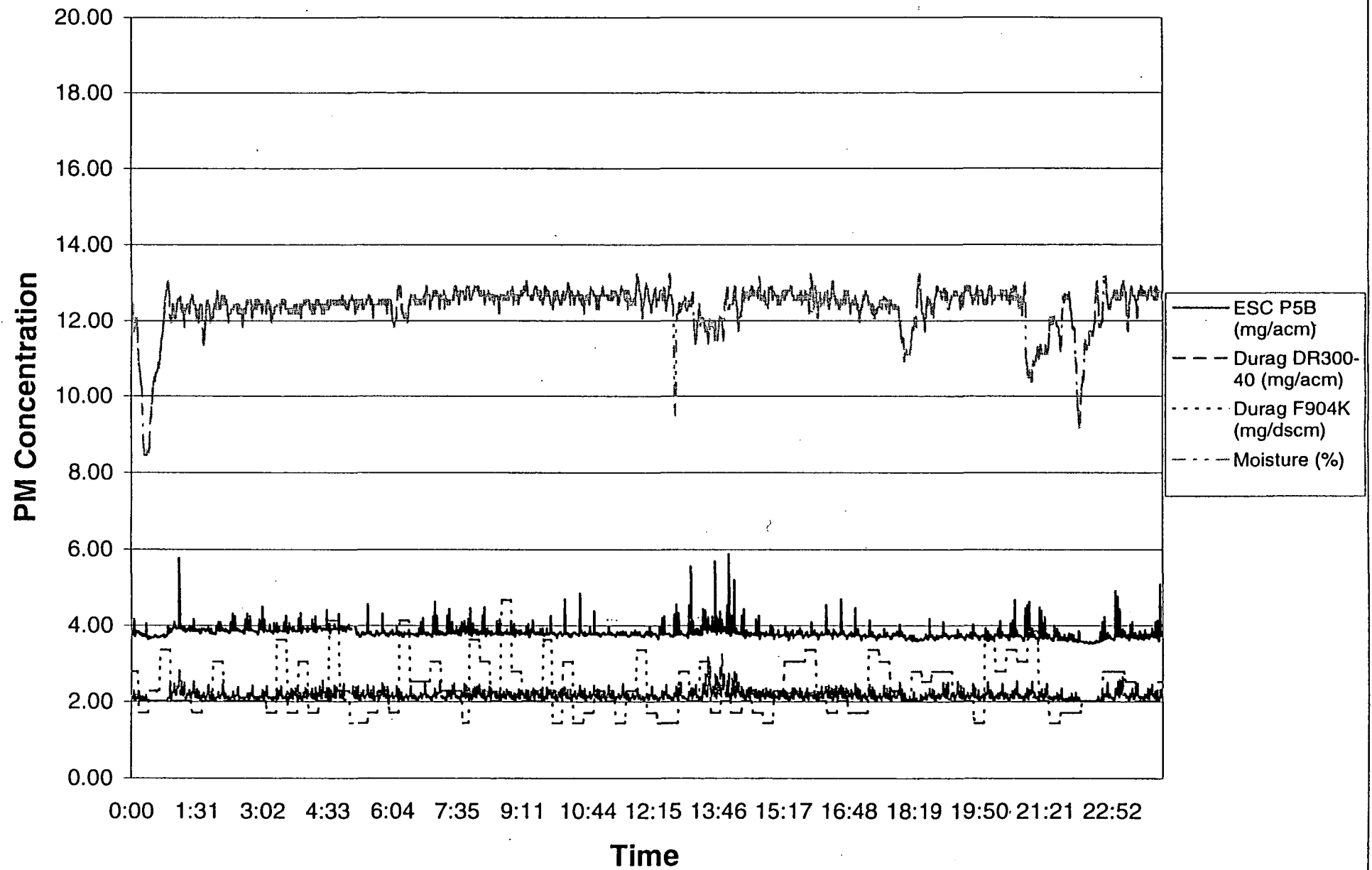
January 16, 2000



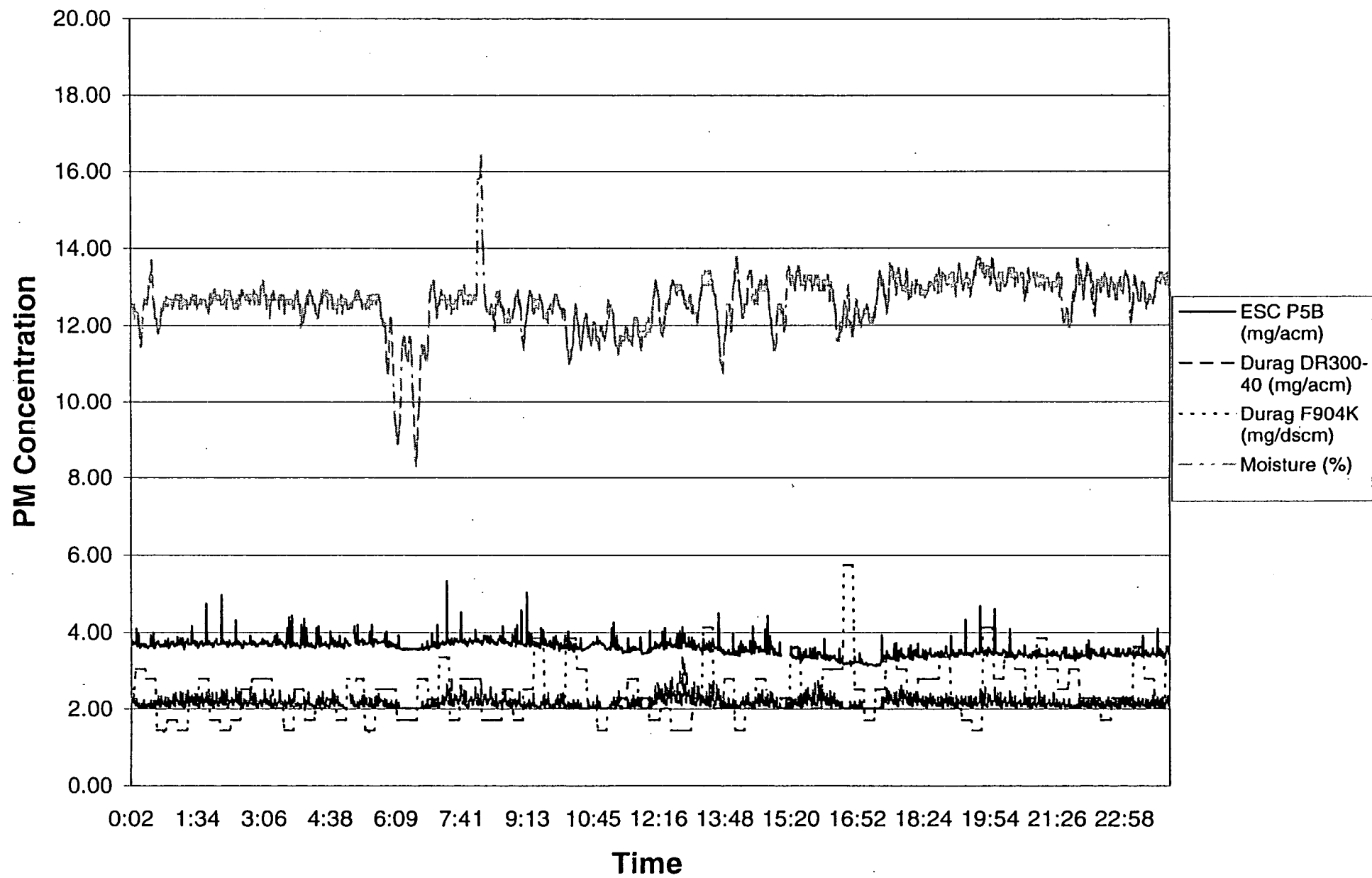
January 17, 2000



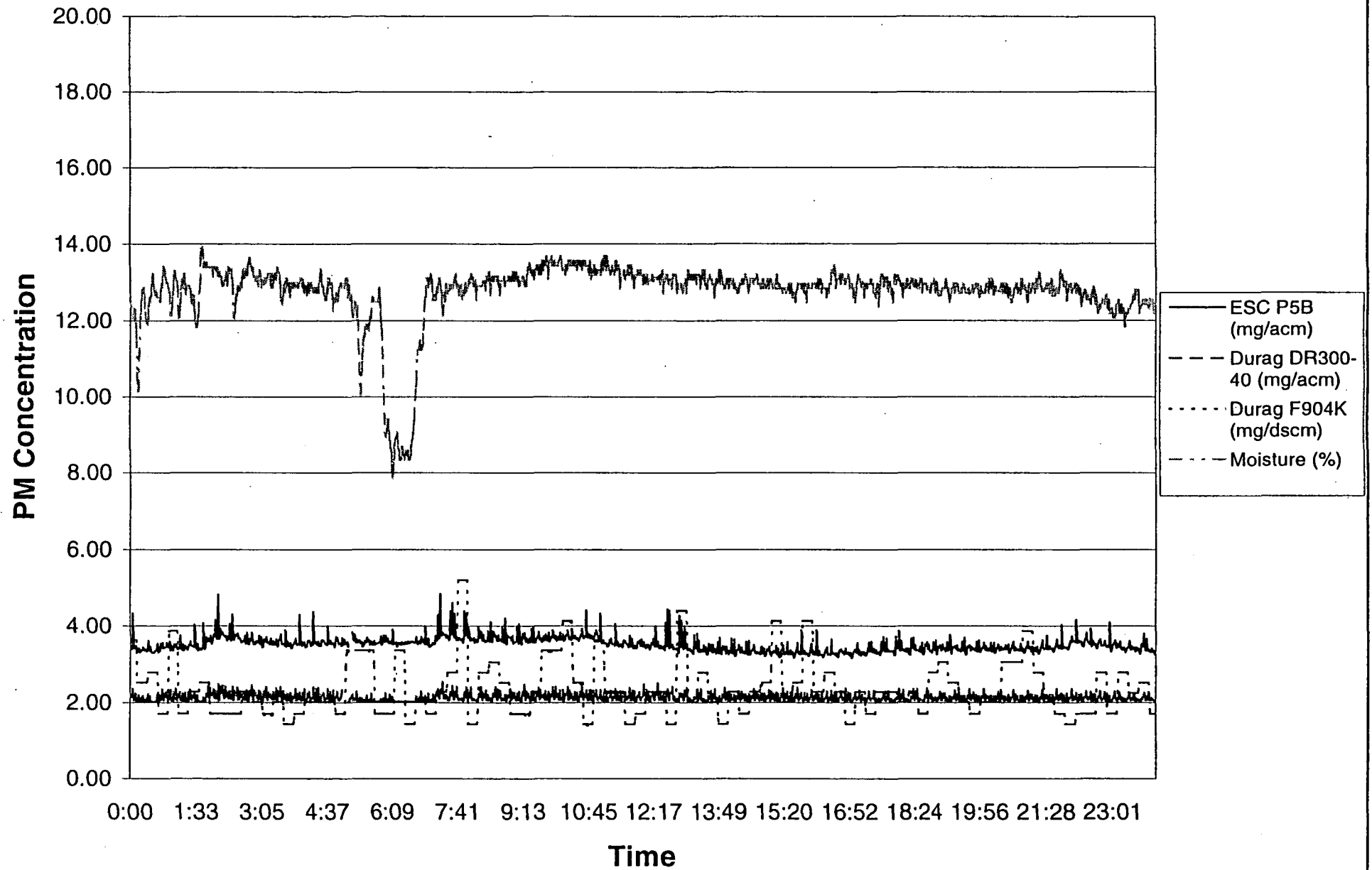
January 18, 2000



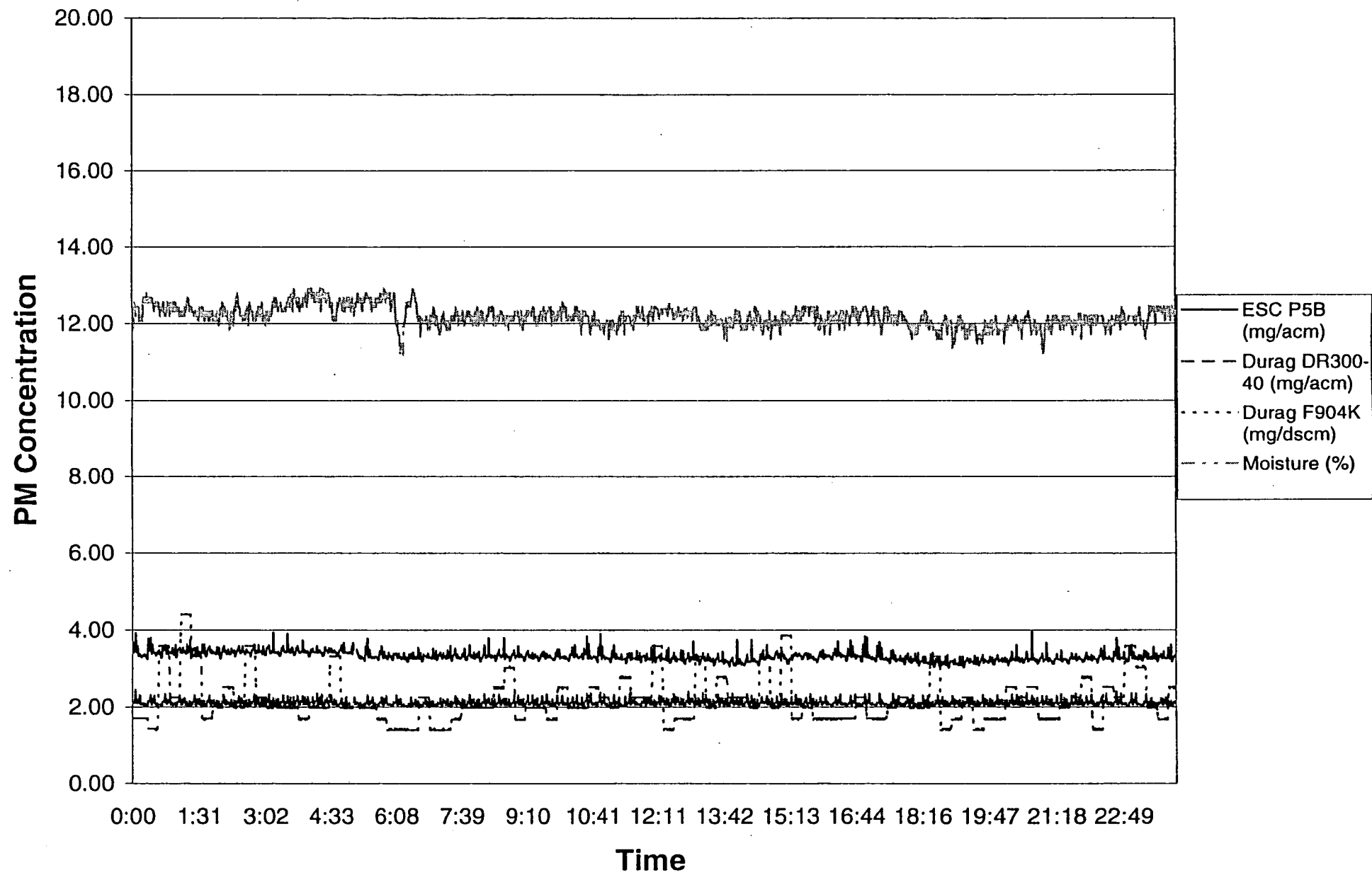
January 19, 2000



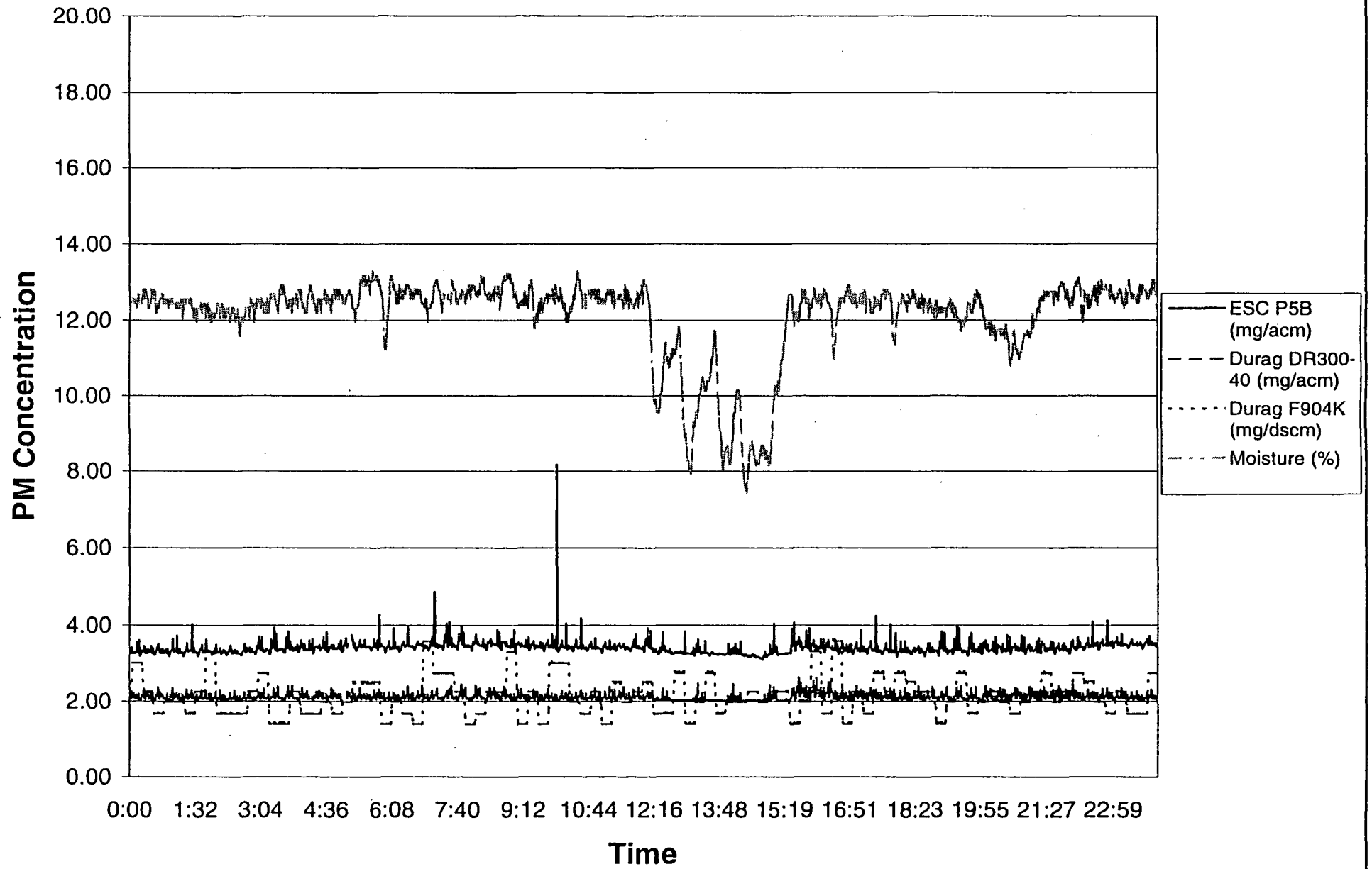
January 20, 2000



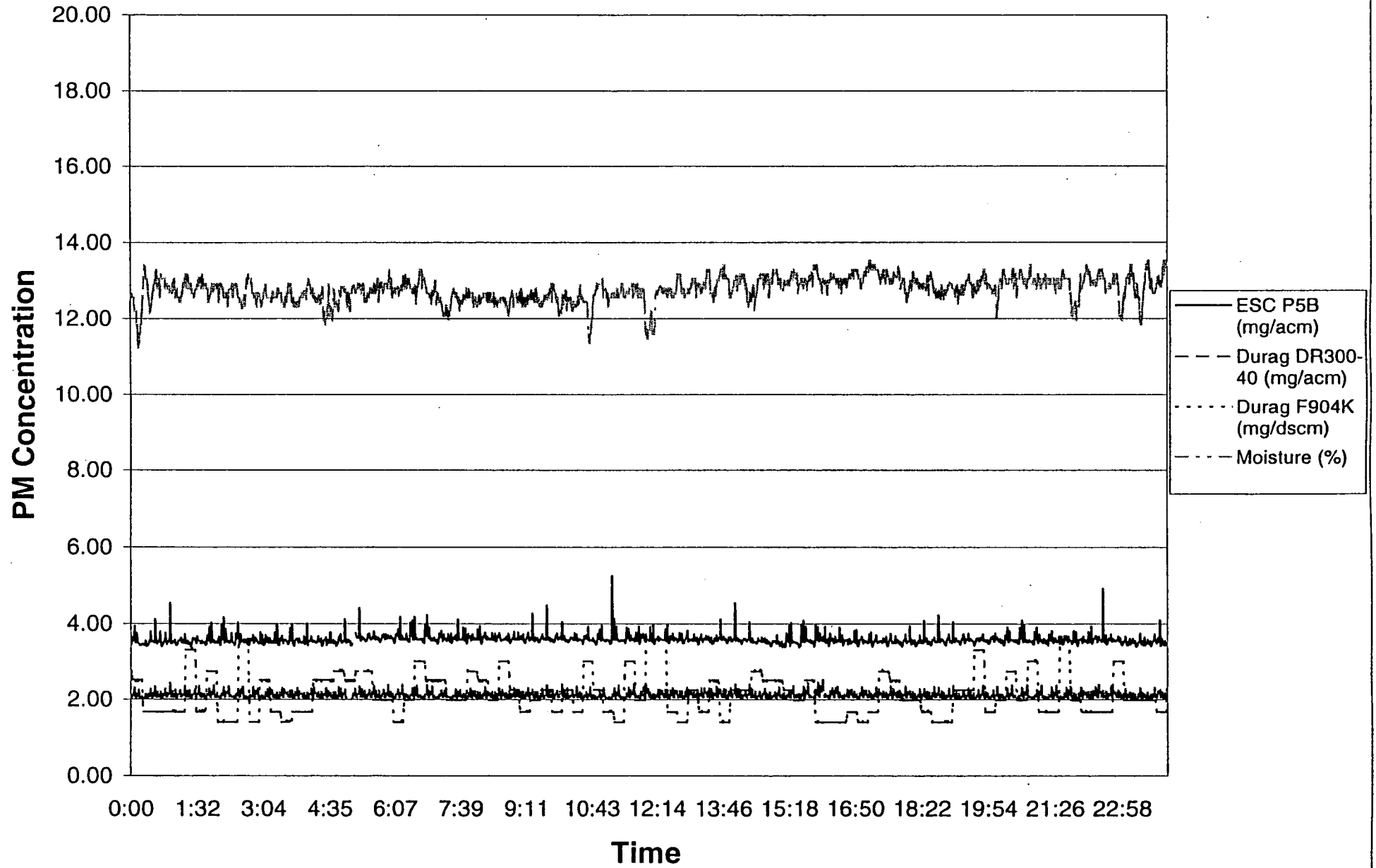
January 21, 2000



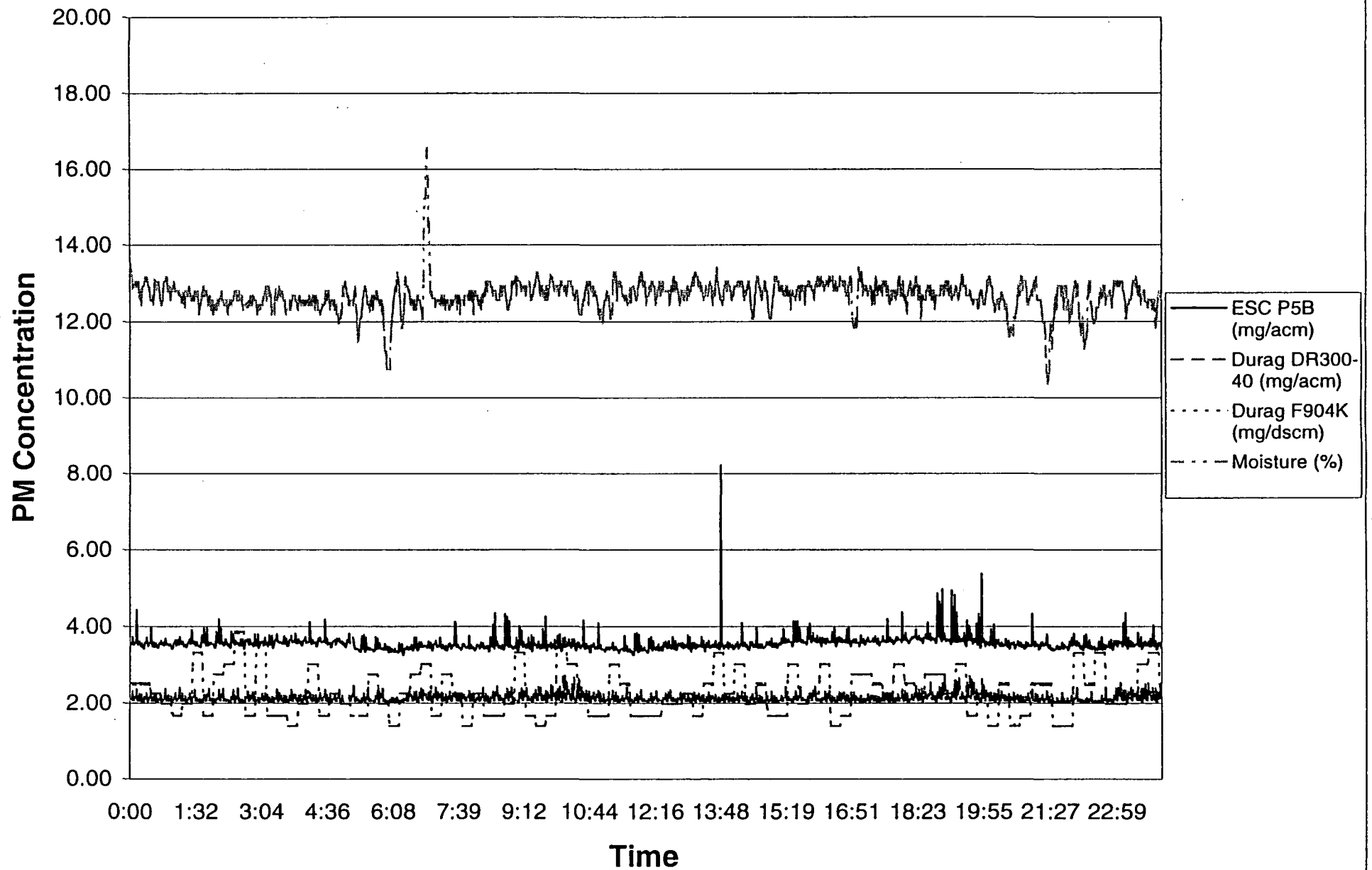
January 22, 2000



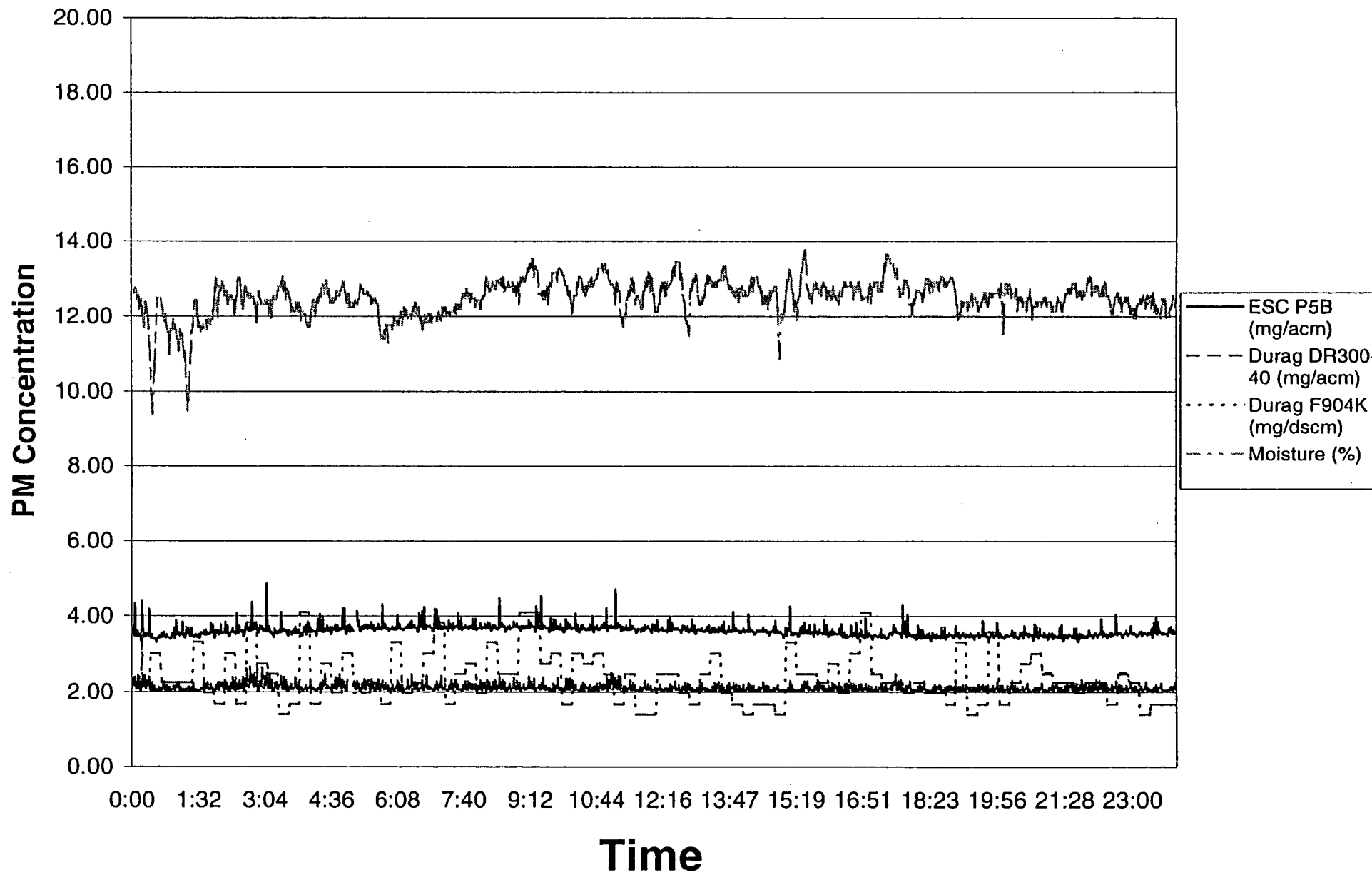
January 23, 2000



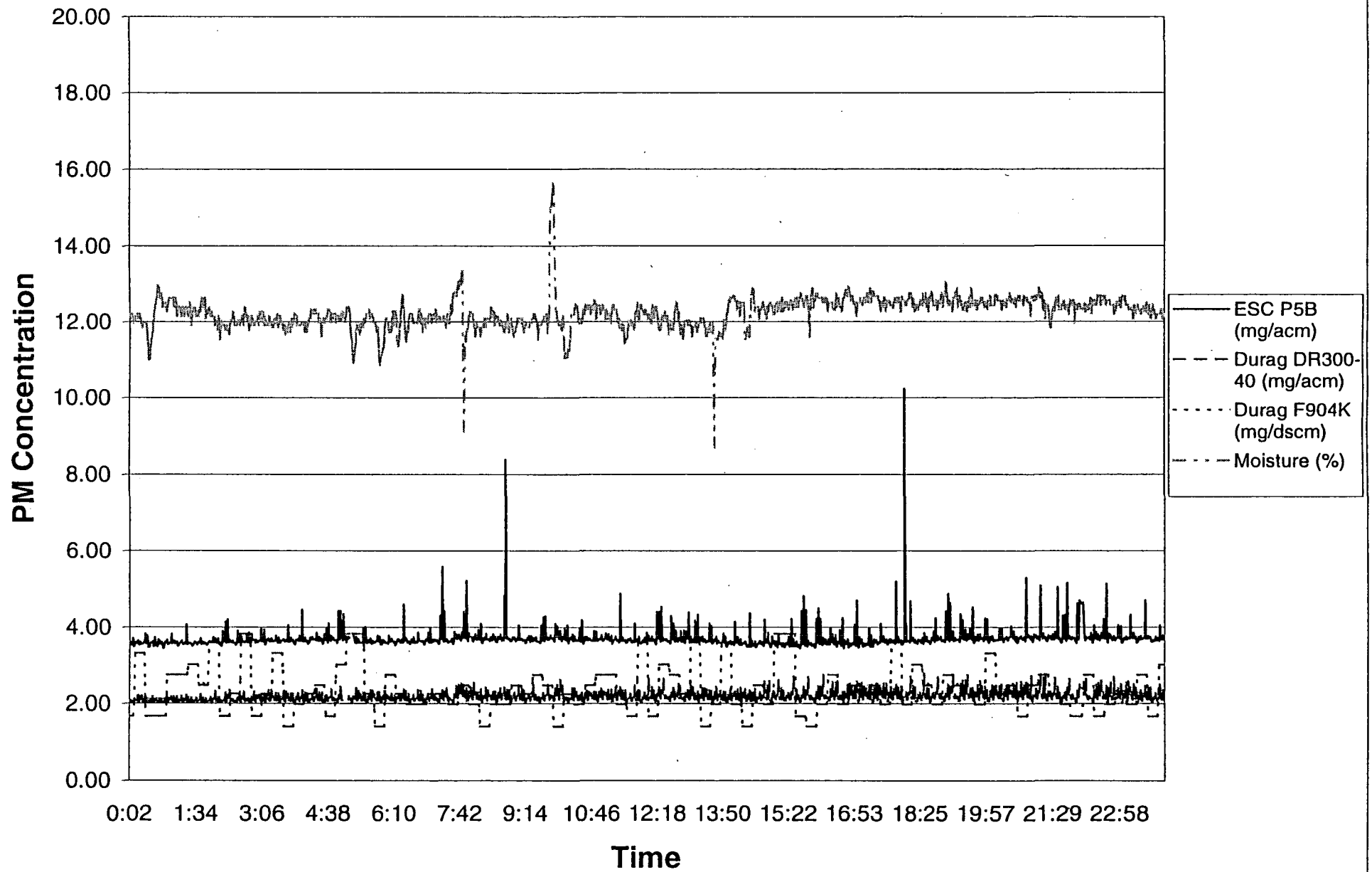
January 24, 2000



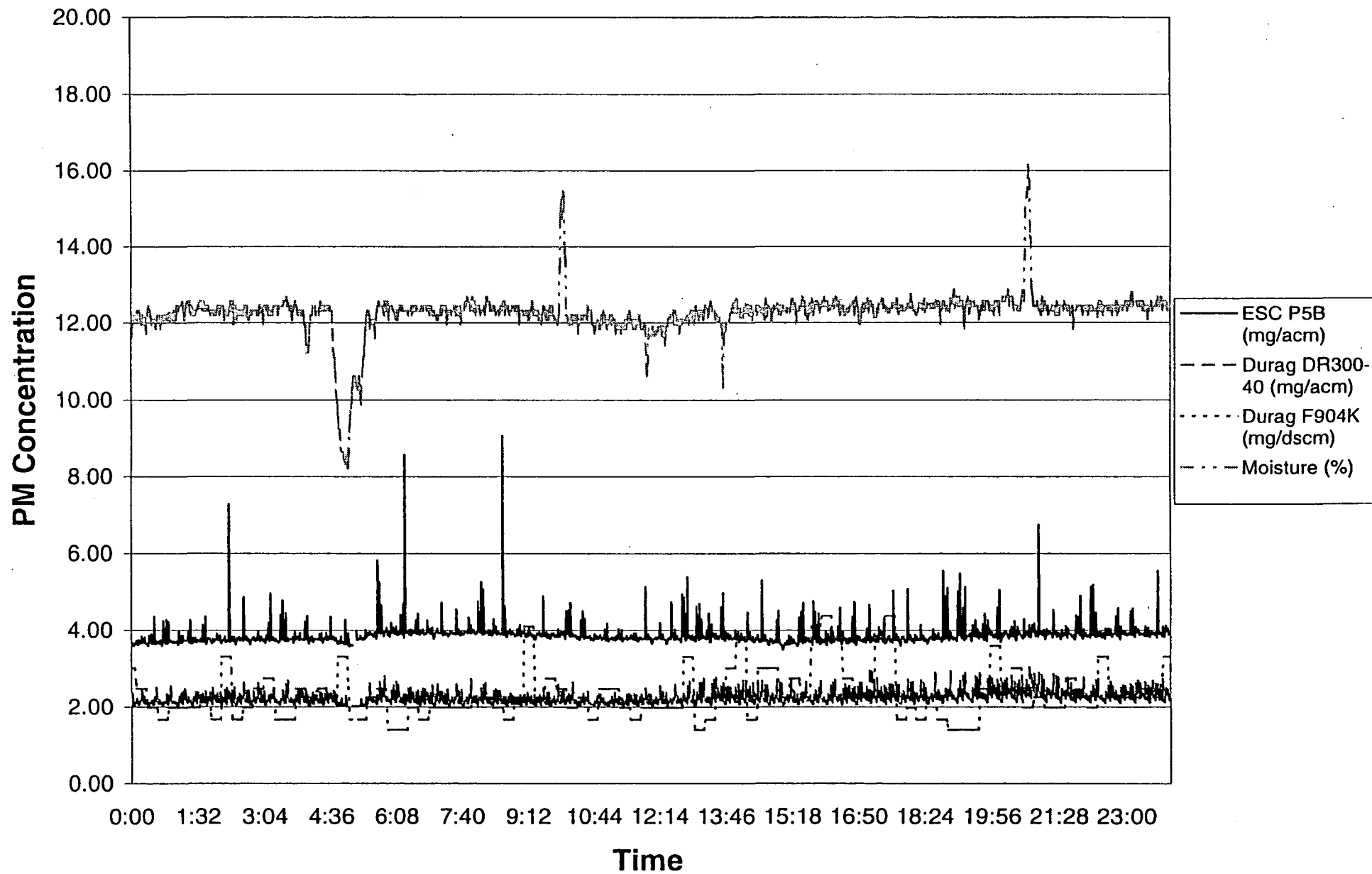
January 25, 2000



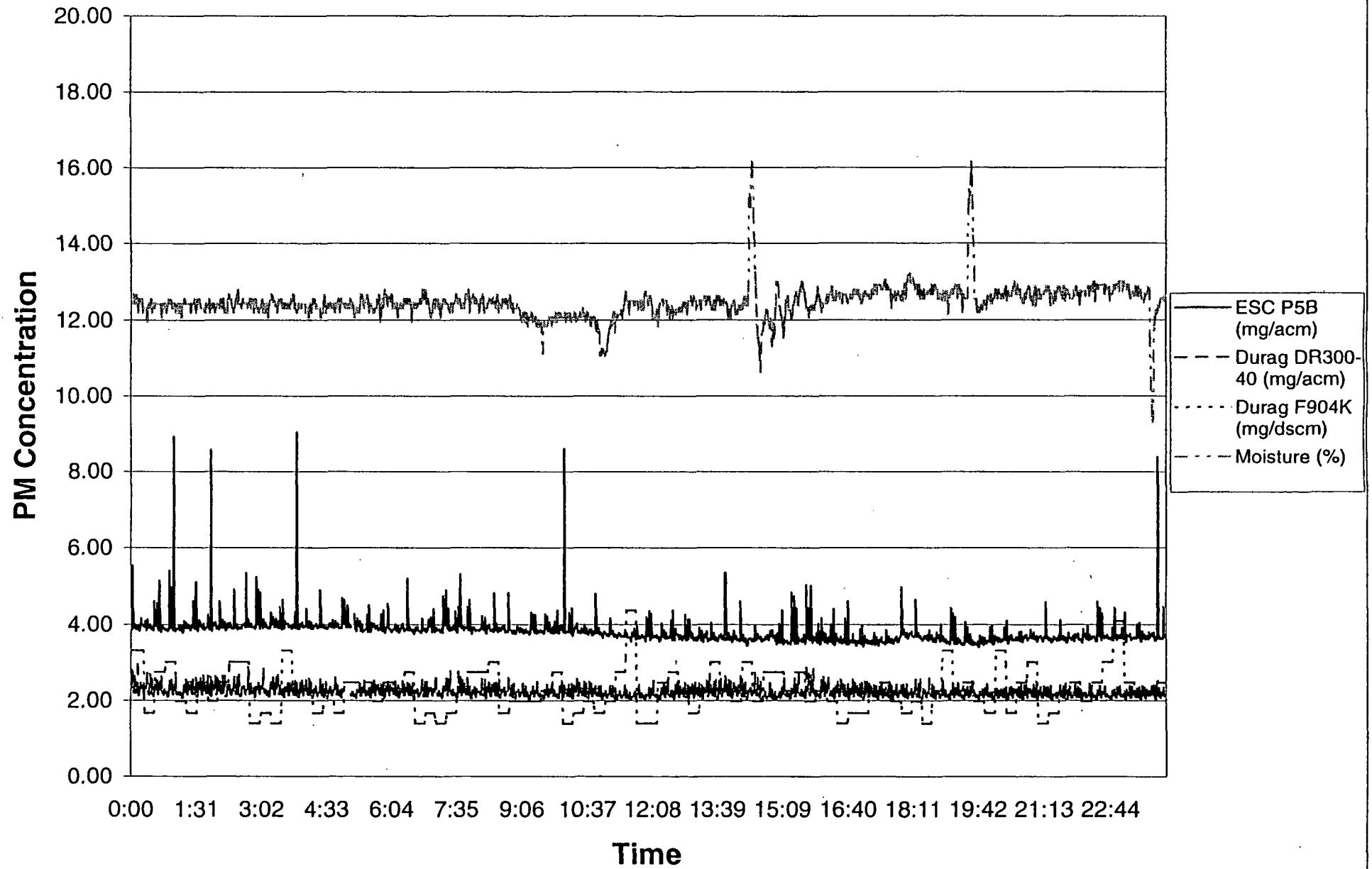
January 26, 2000



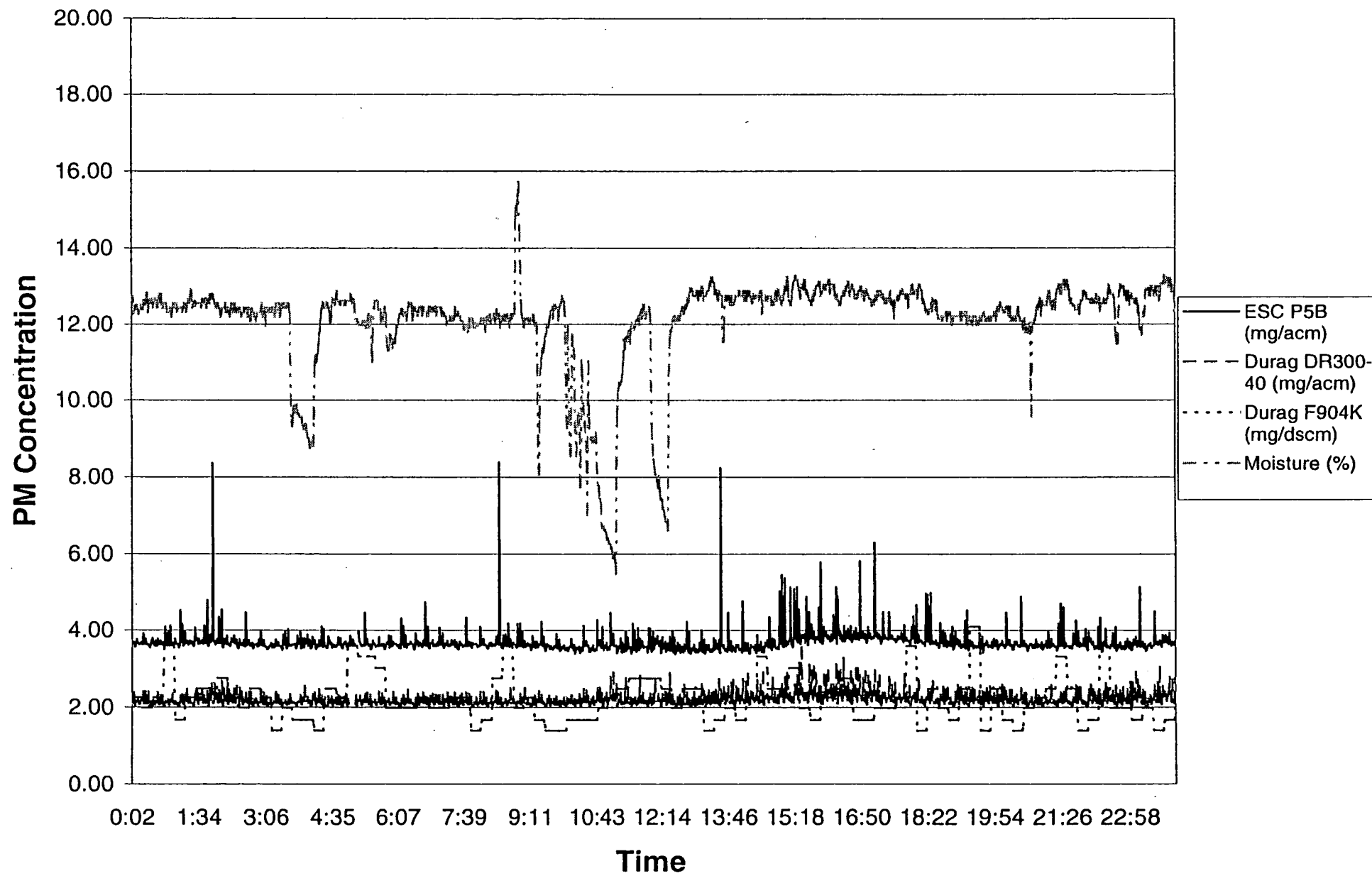
January 27, 2000



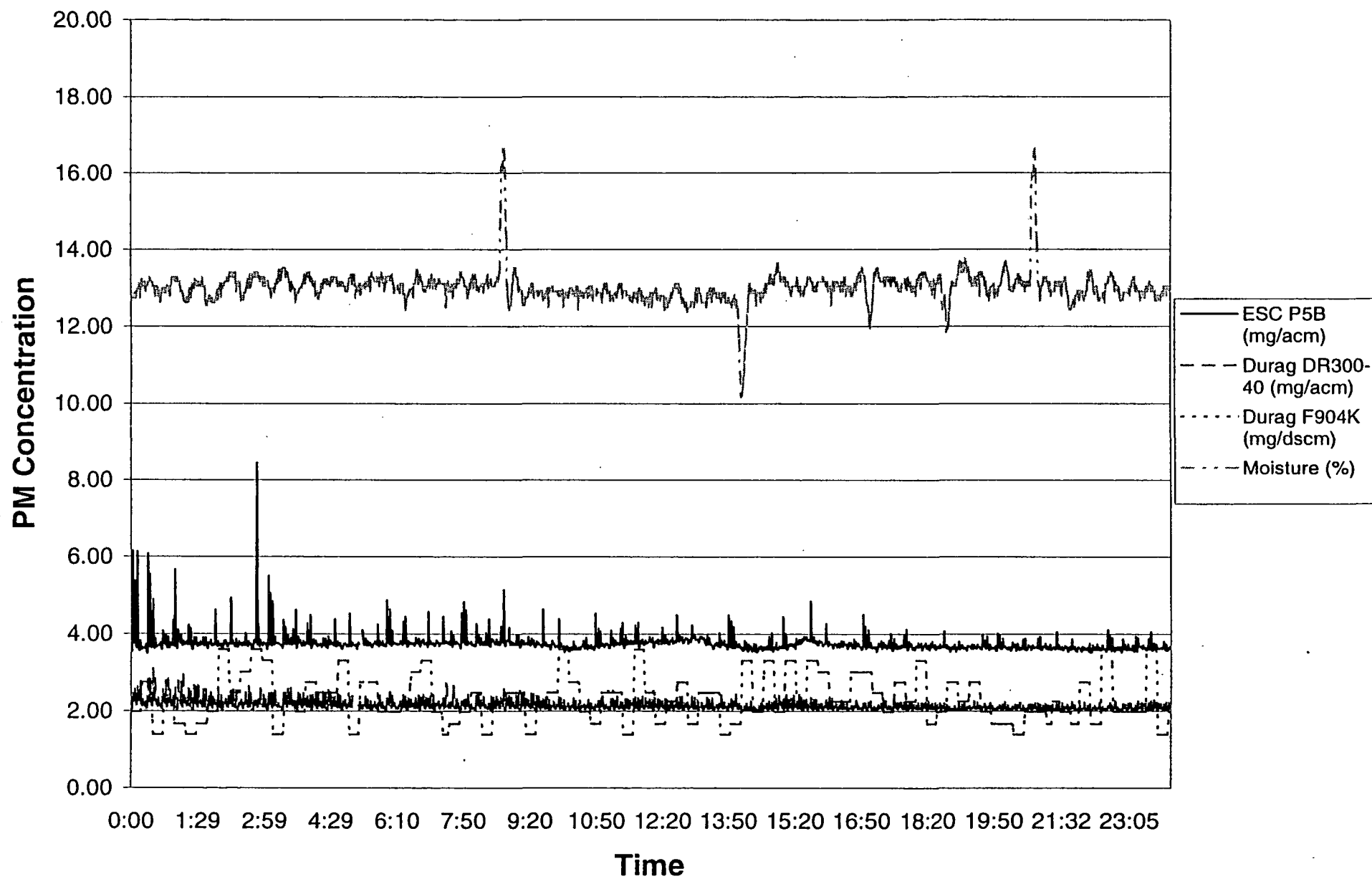
January 28, 2000



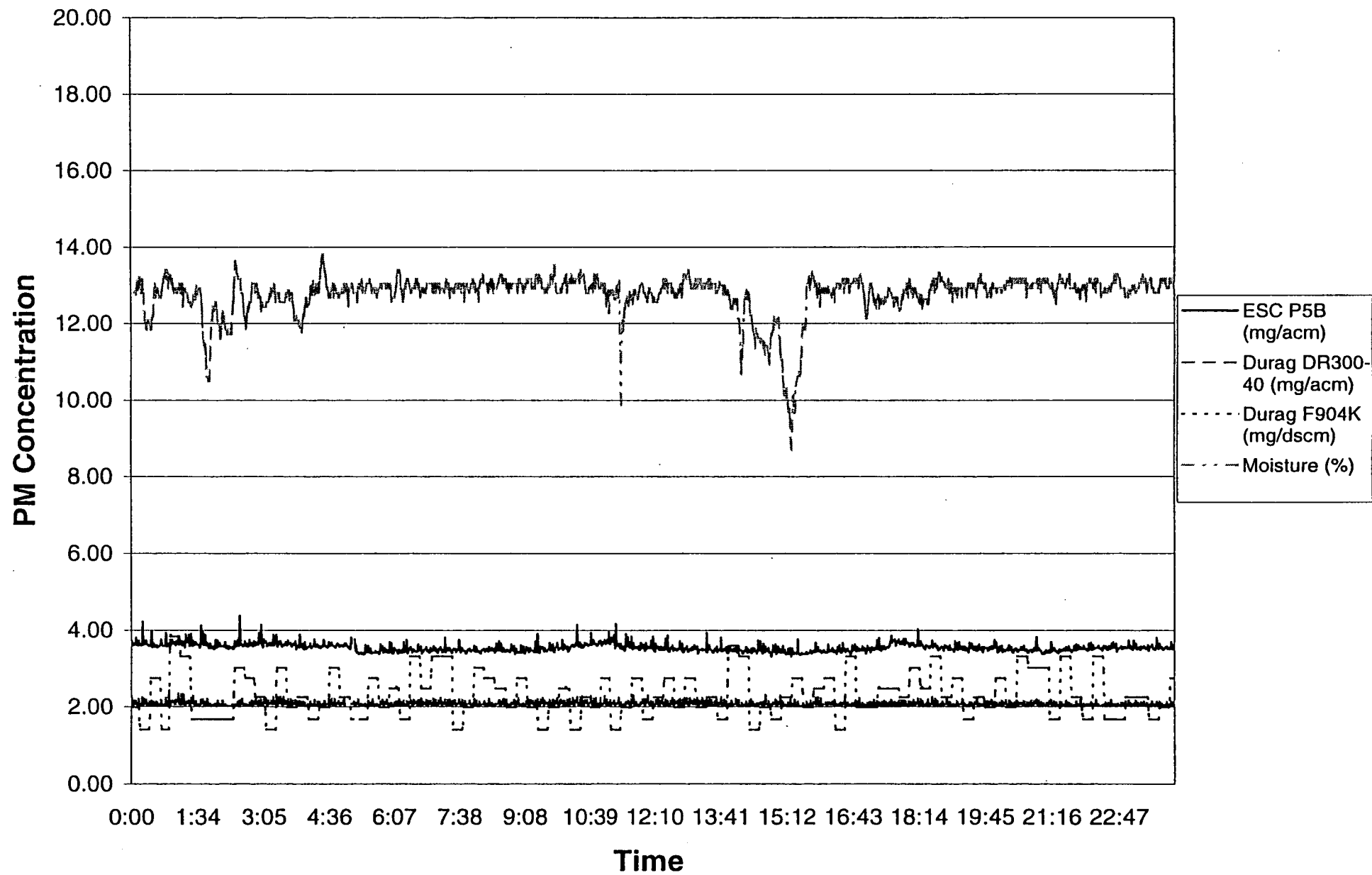
January 29, 2000



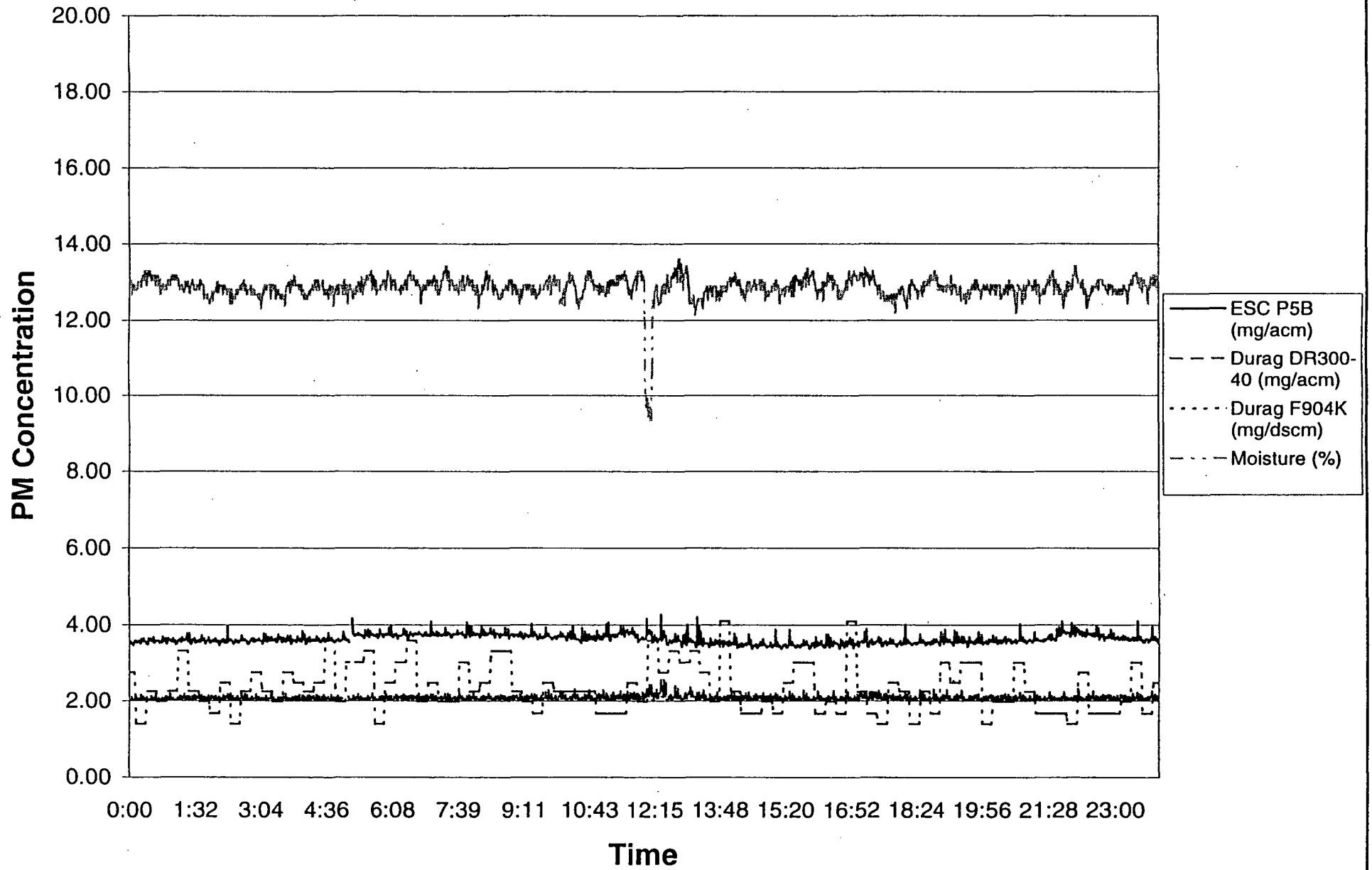
January 30, 2000



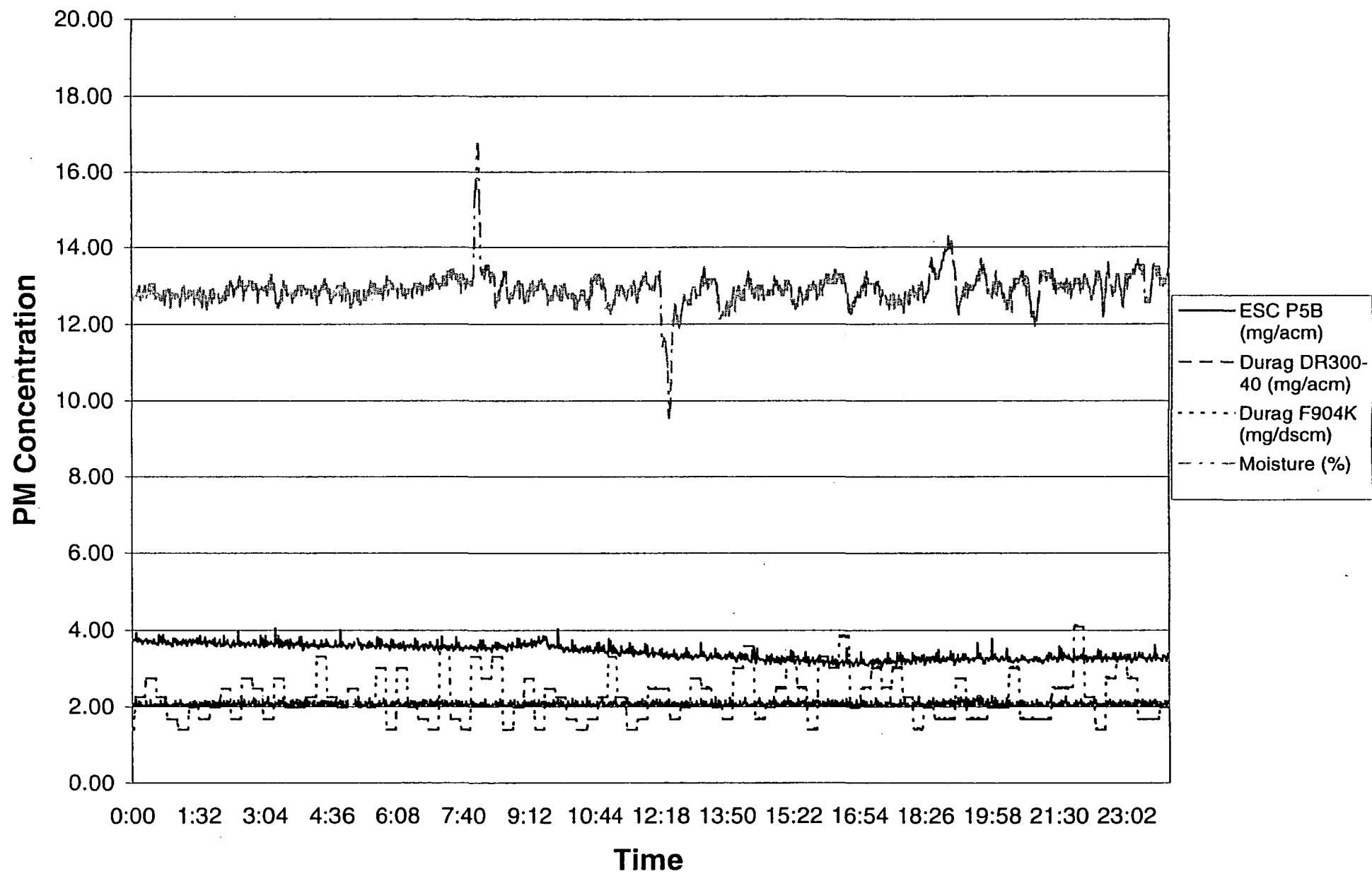
January 31, 2000



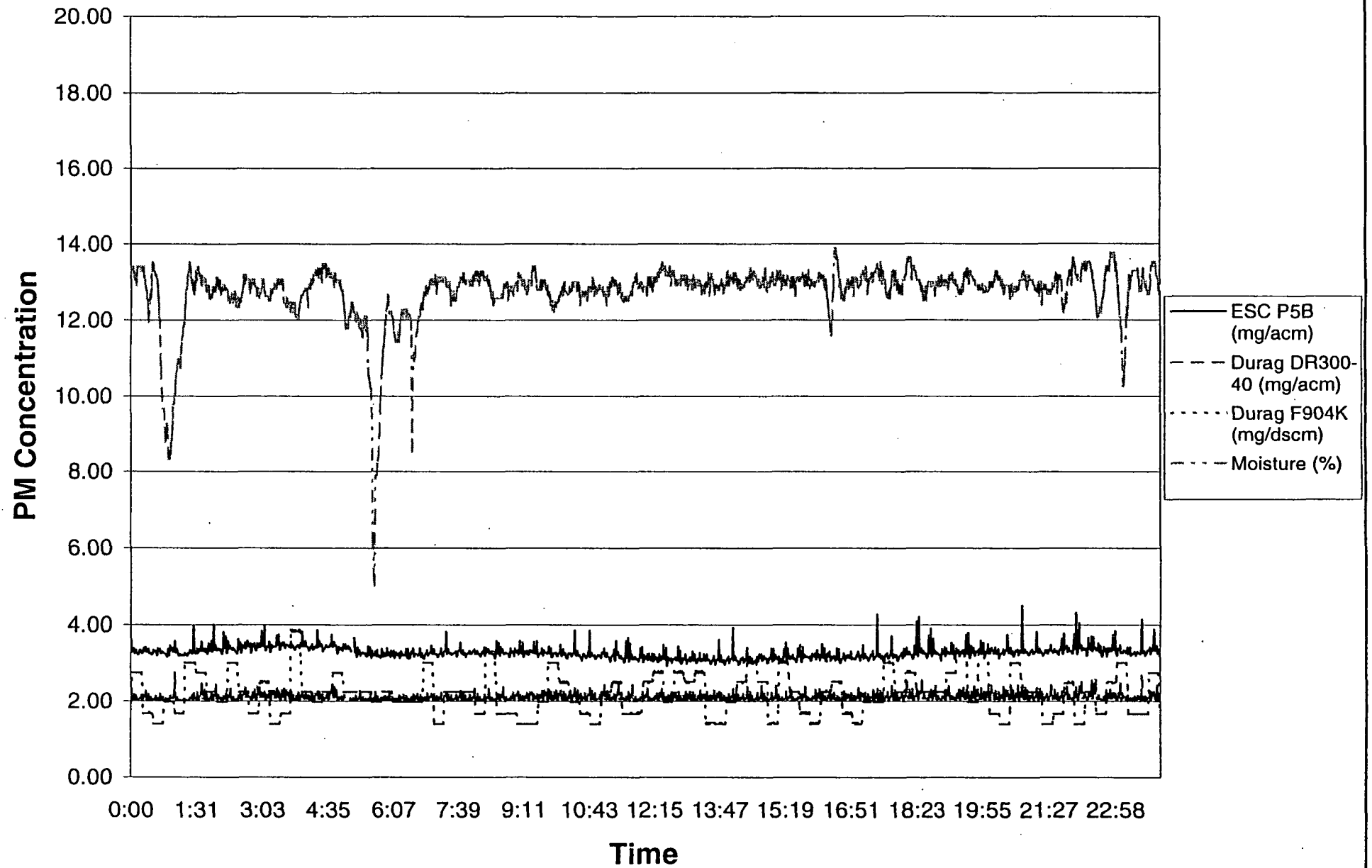
February 1, 2000



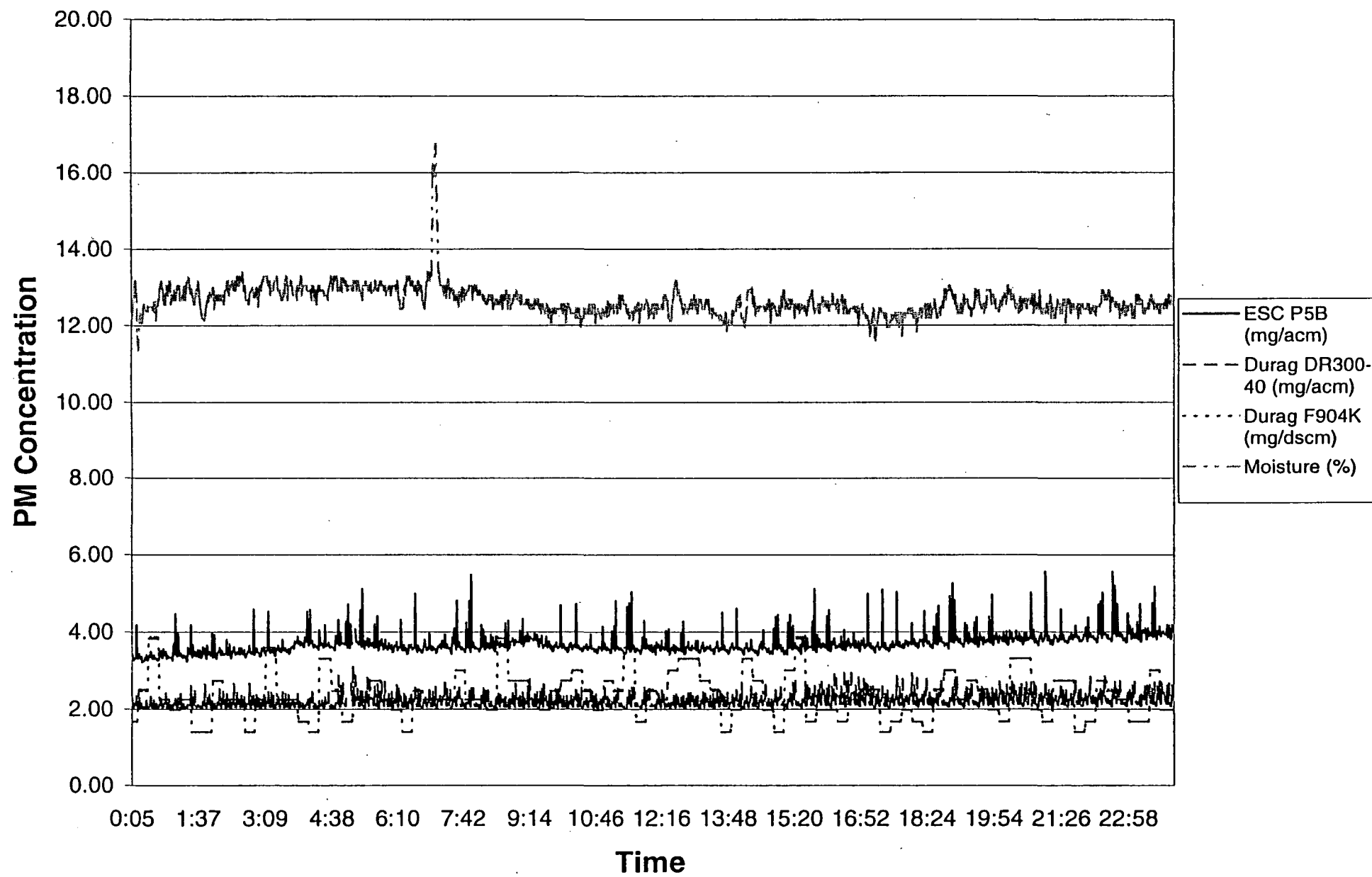
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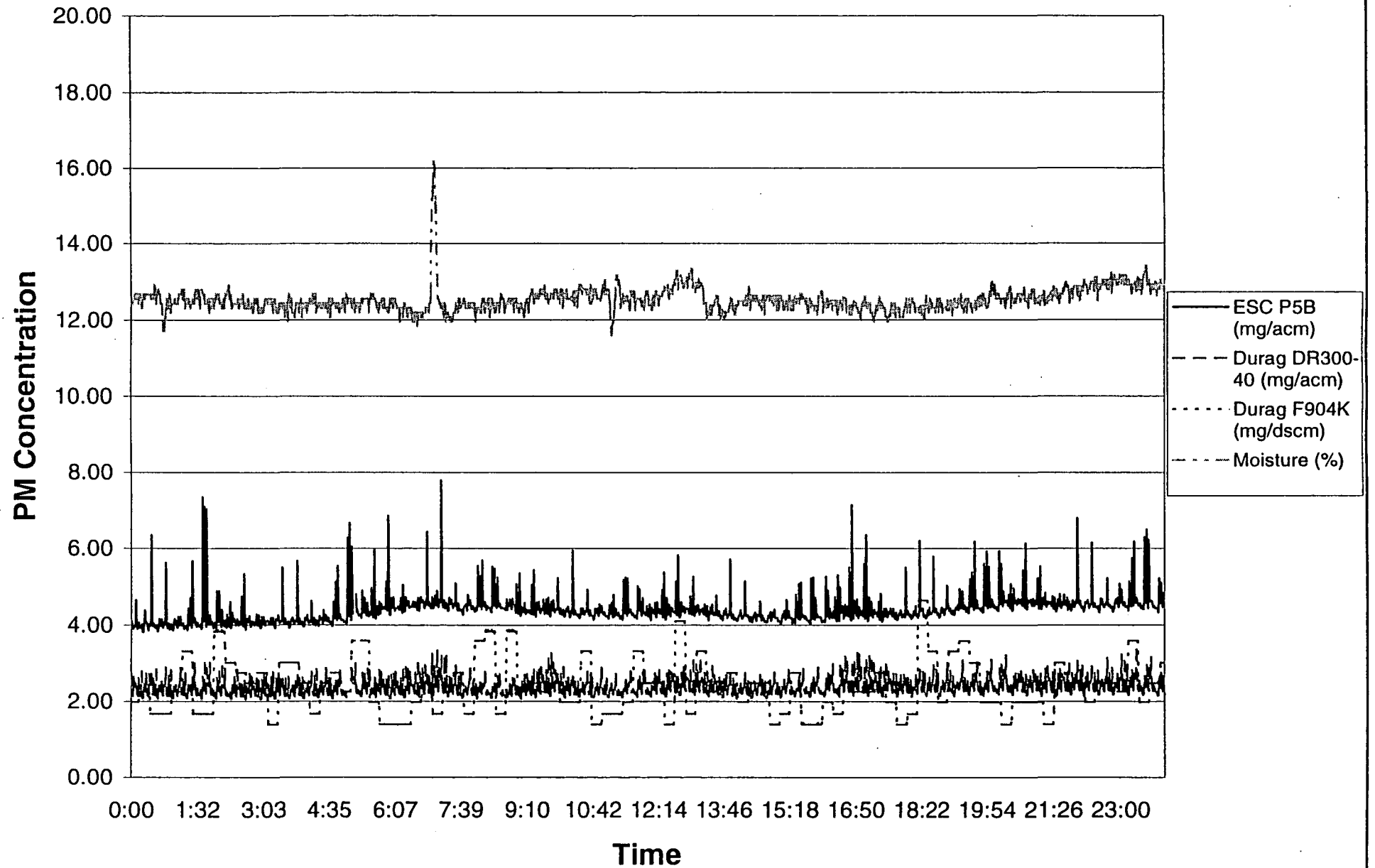
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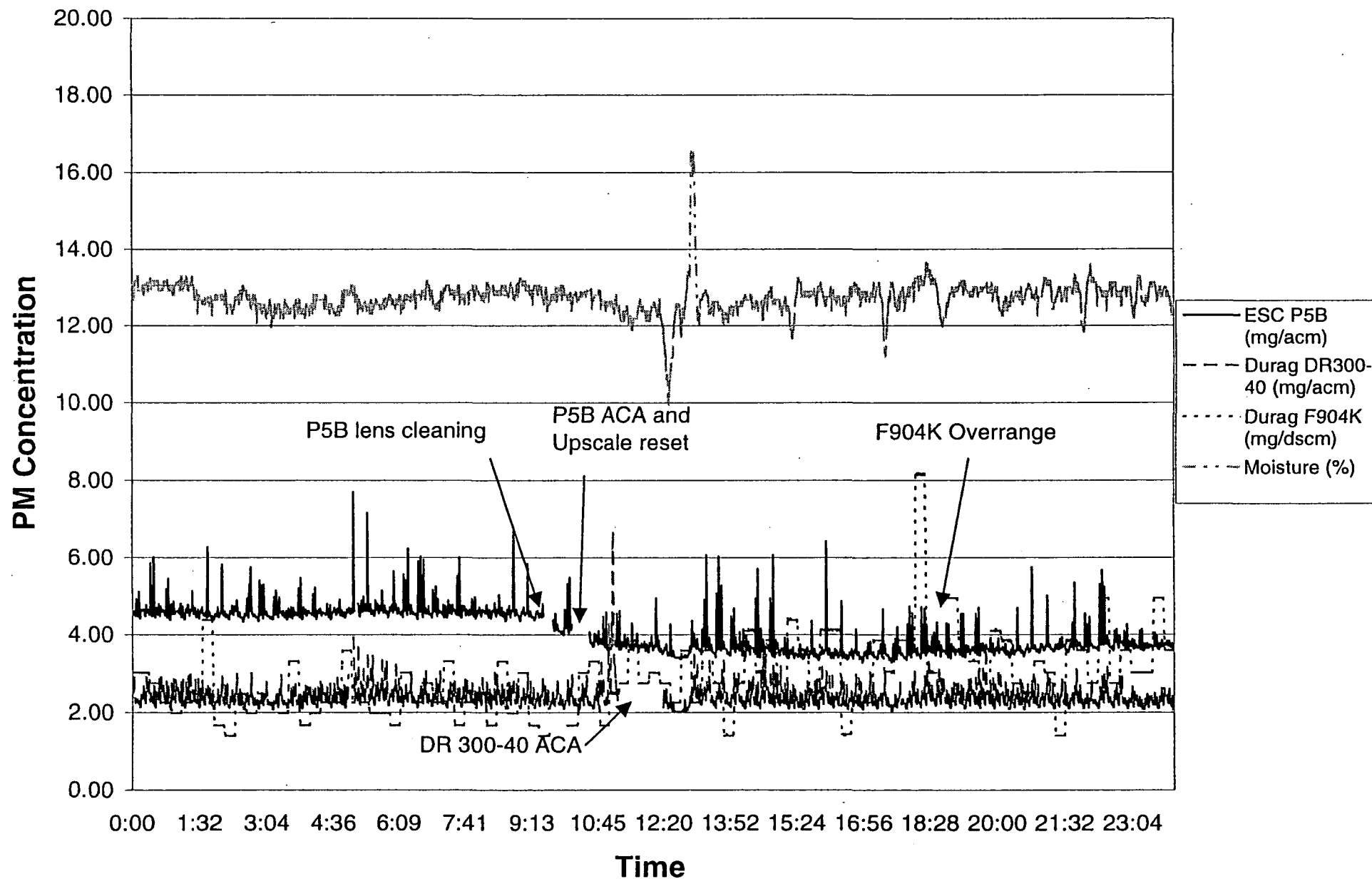
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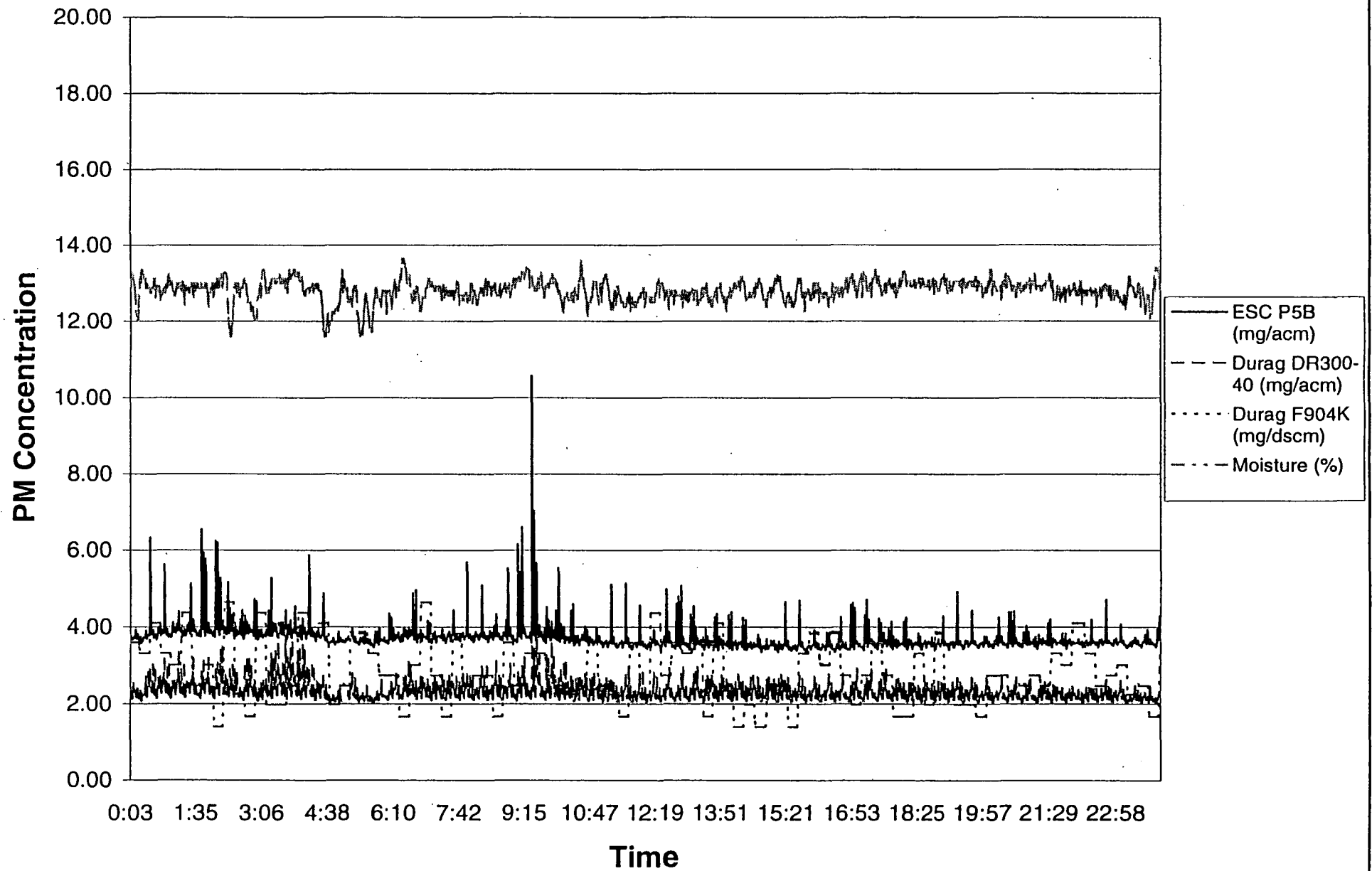
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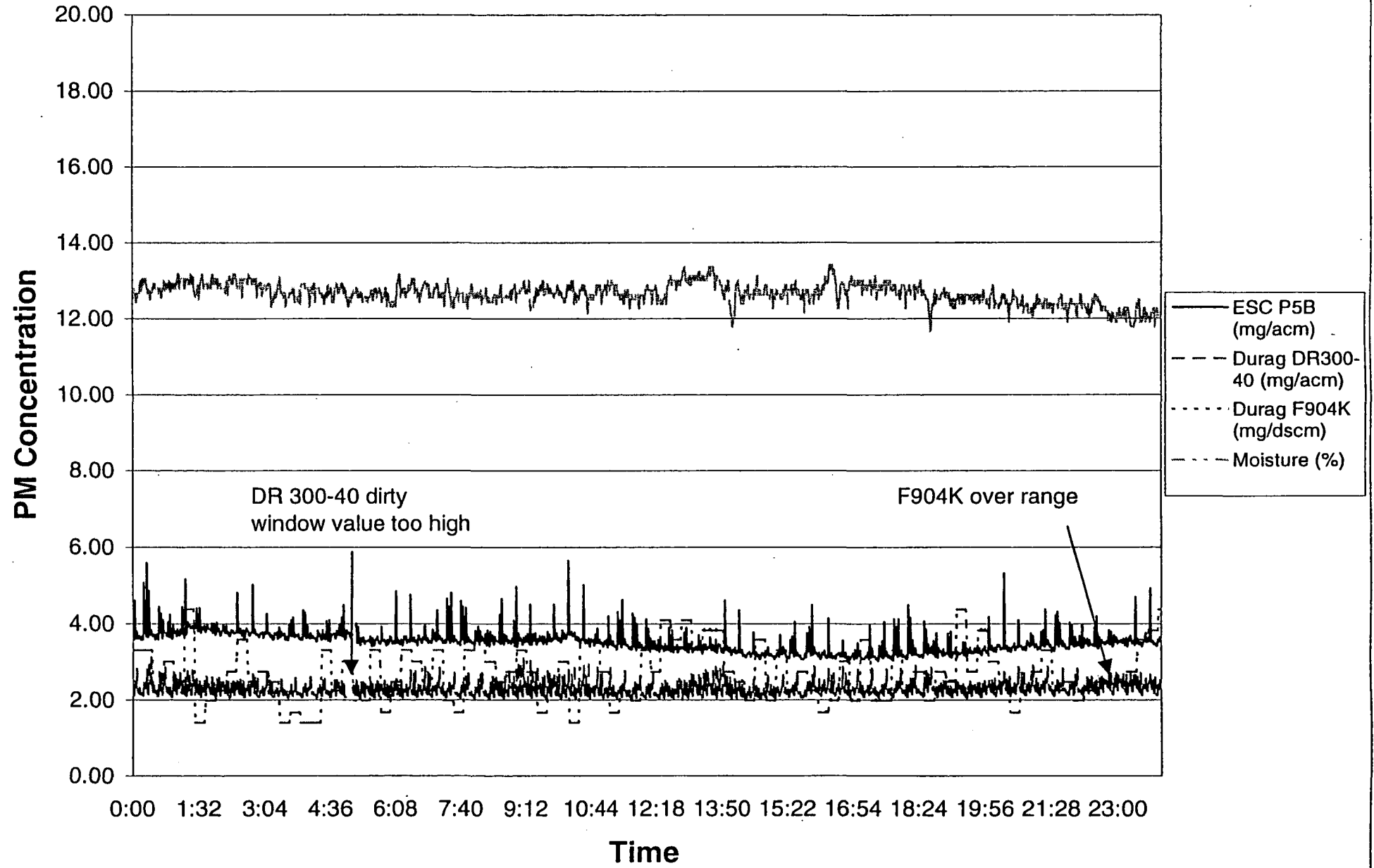
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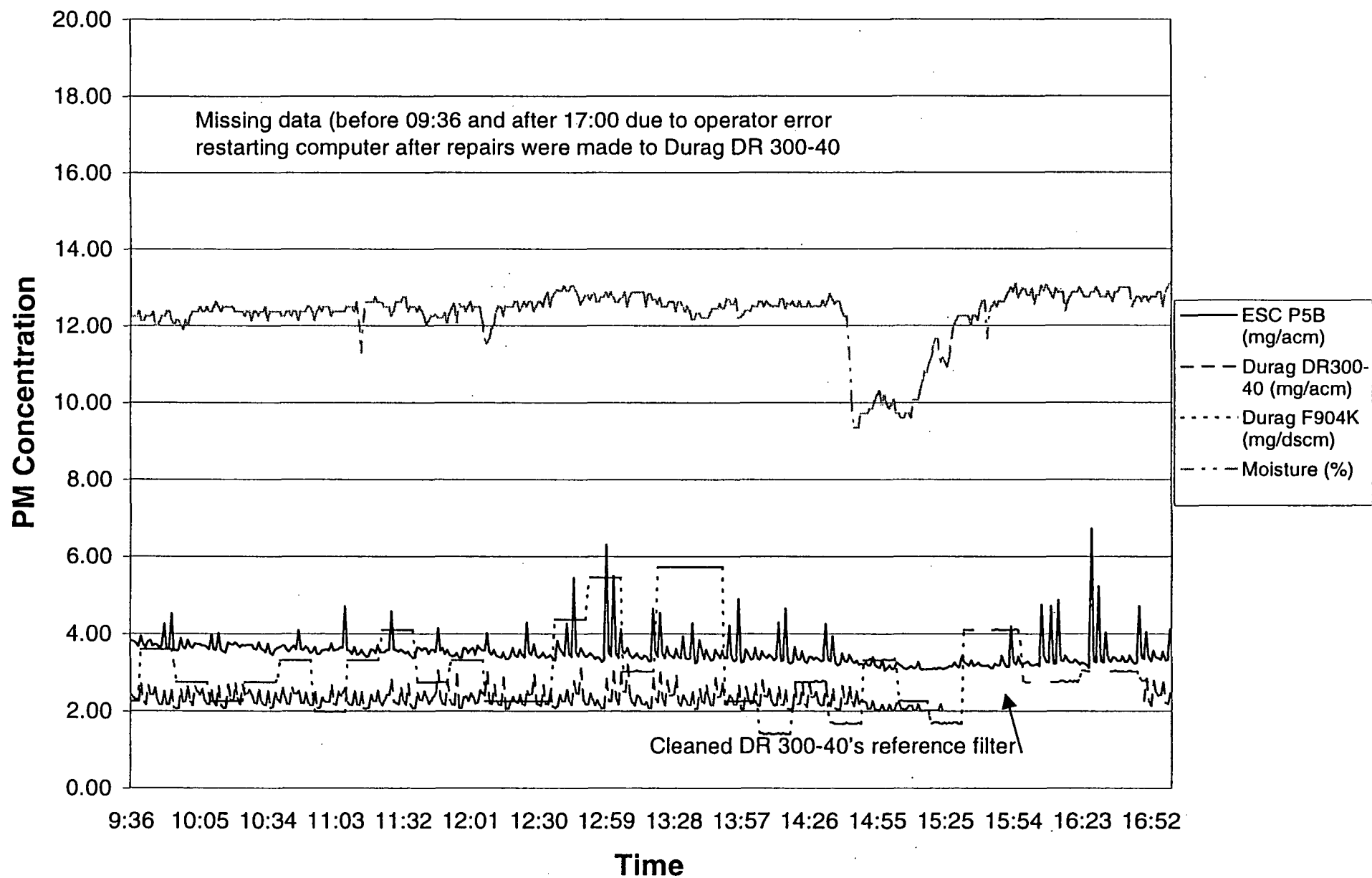
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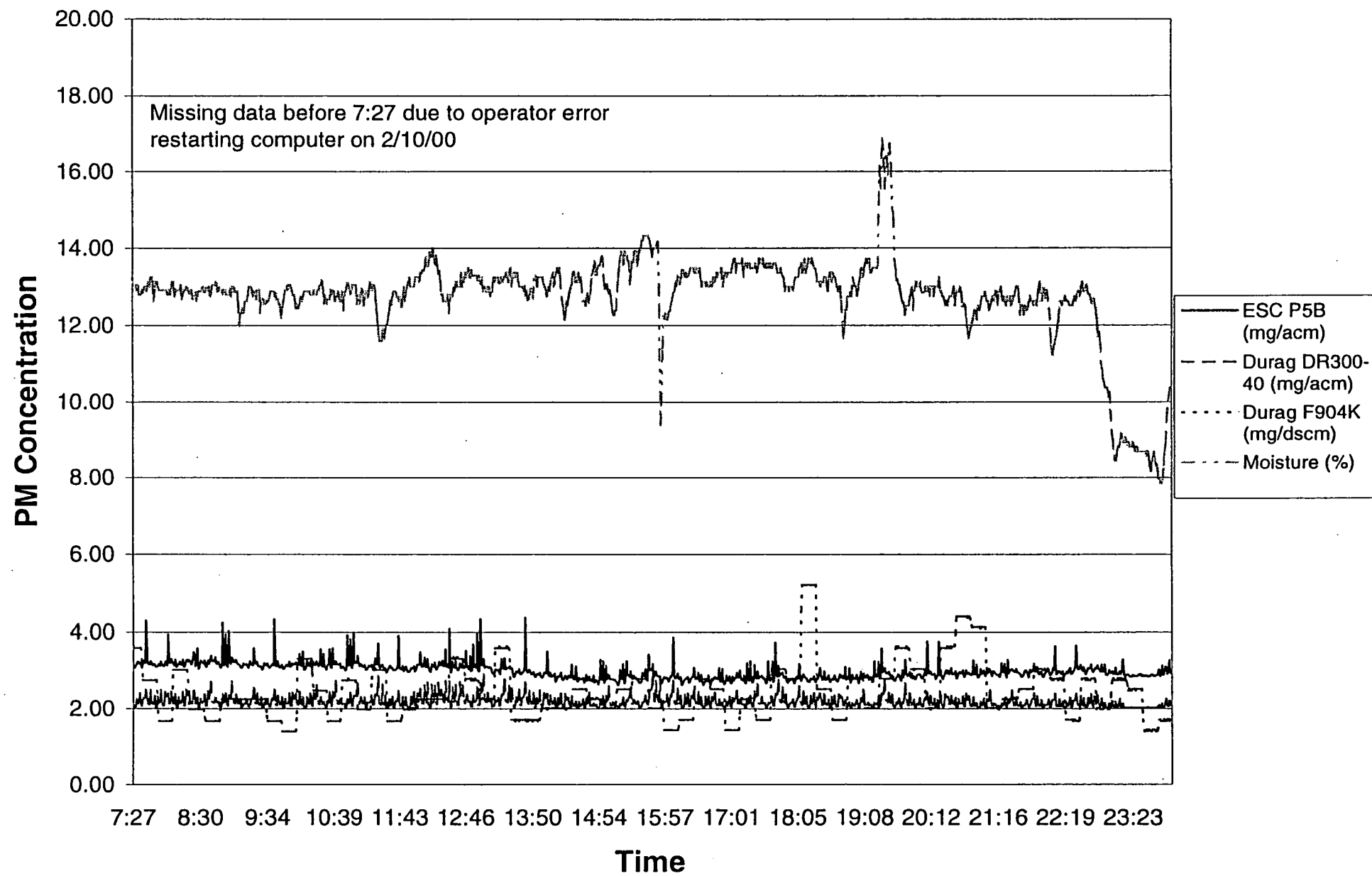
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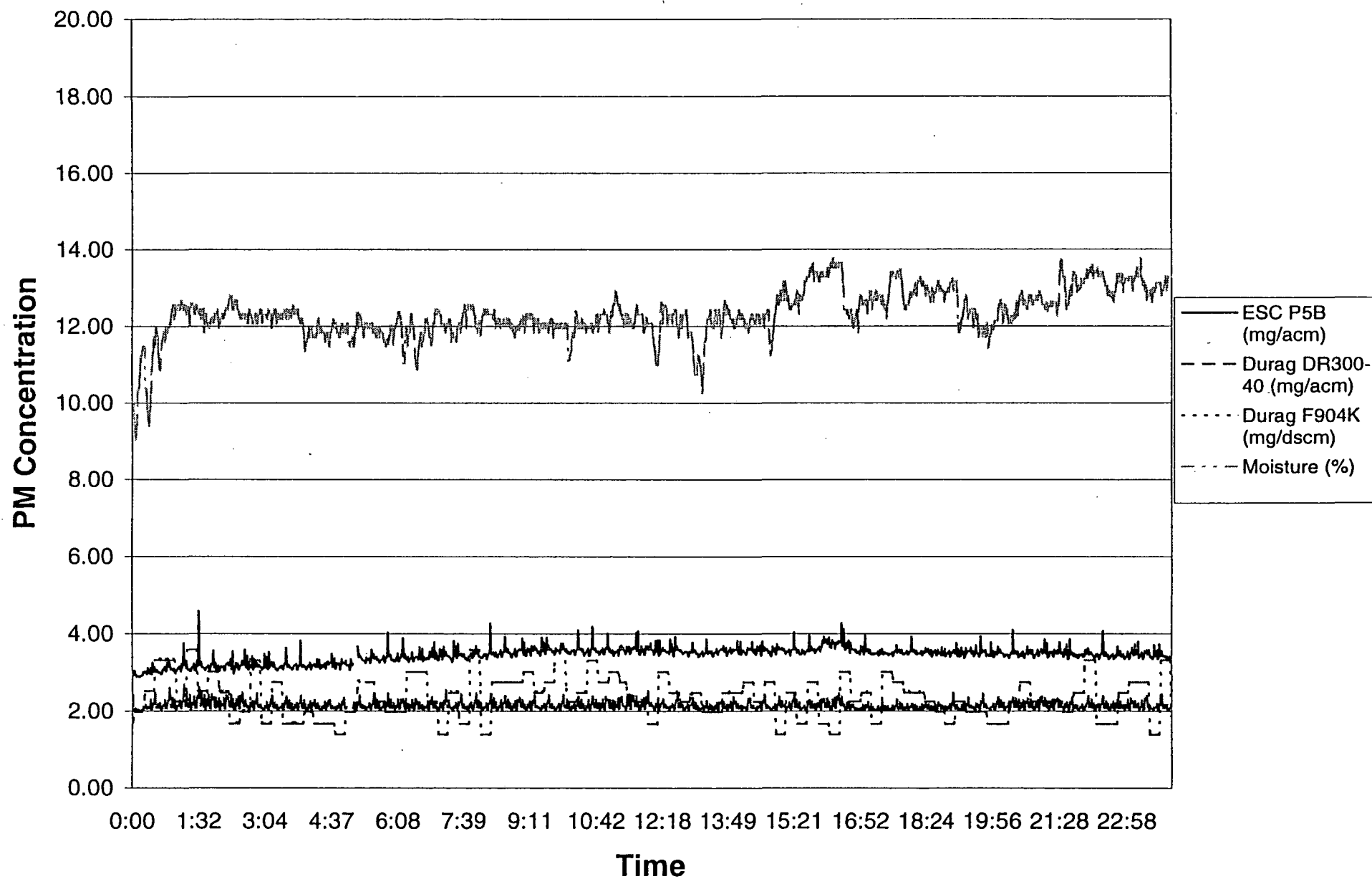
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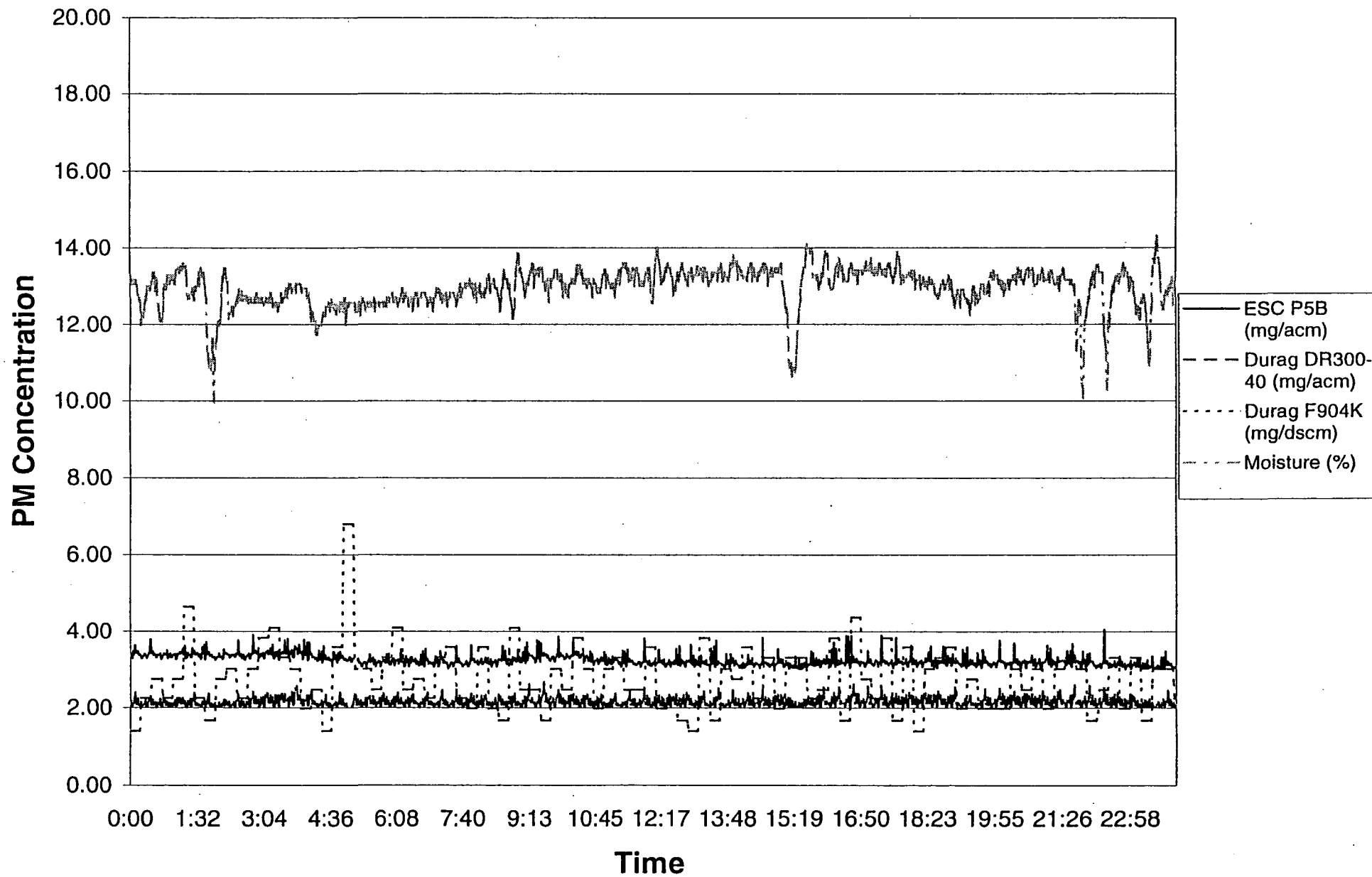
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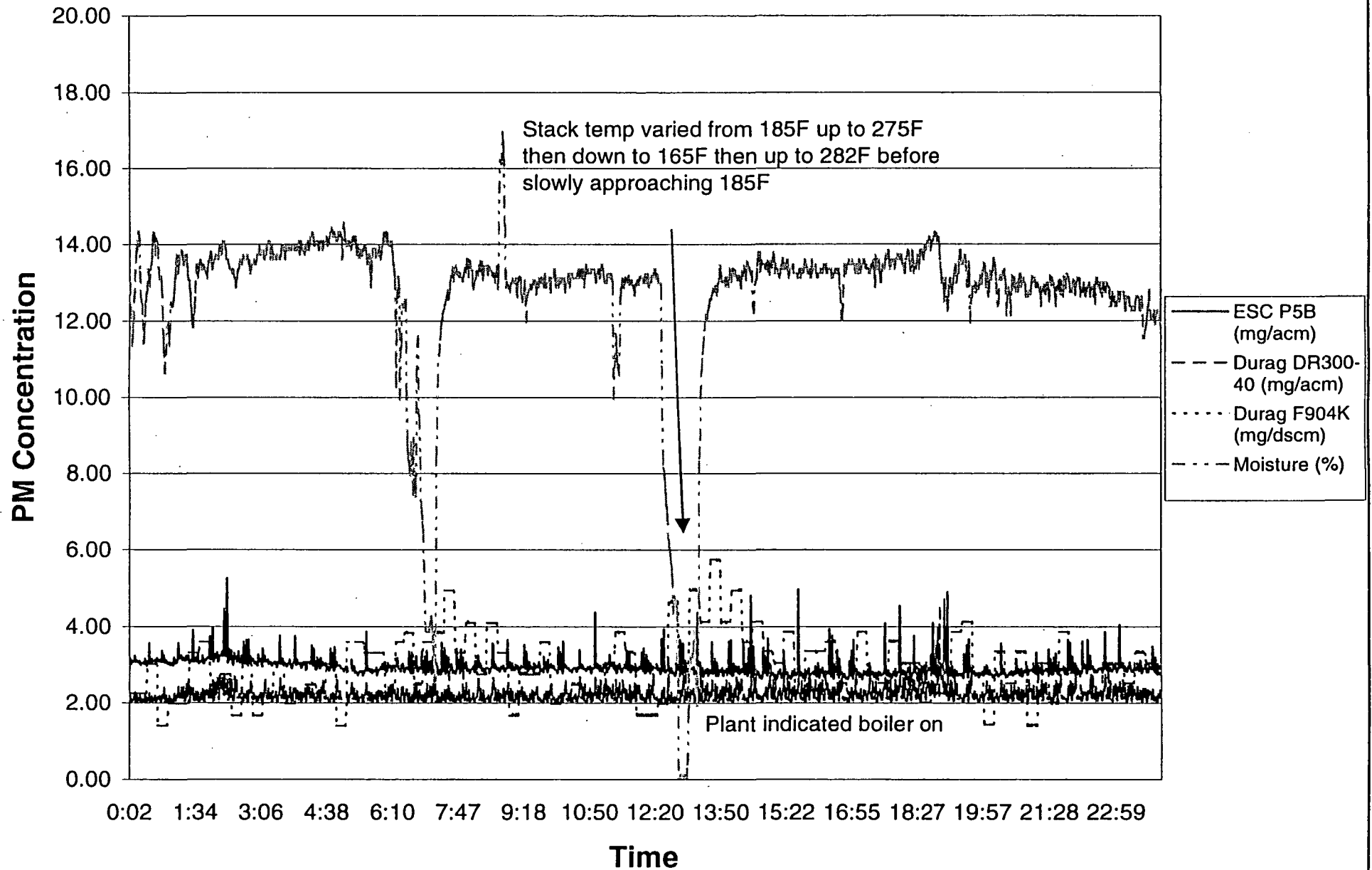
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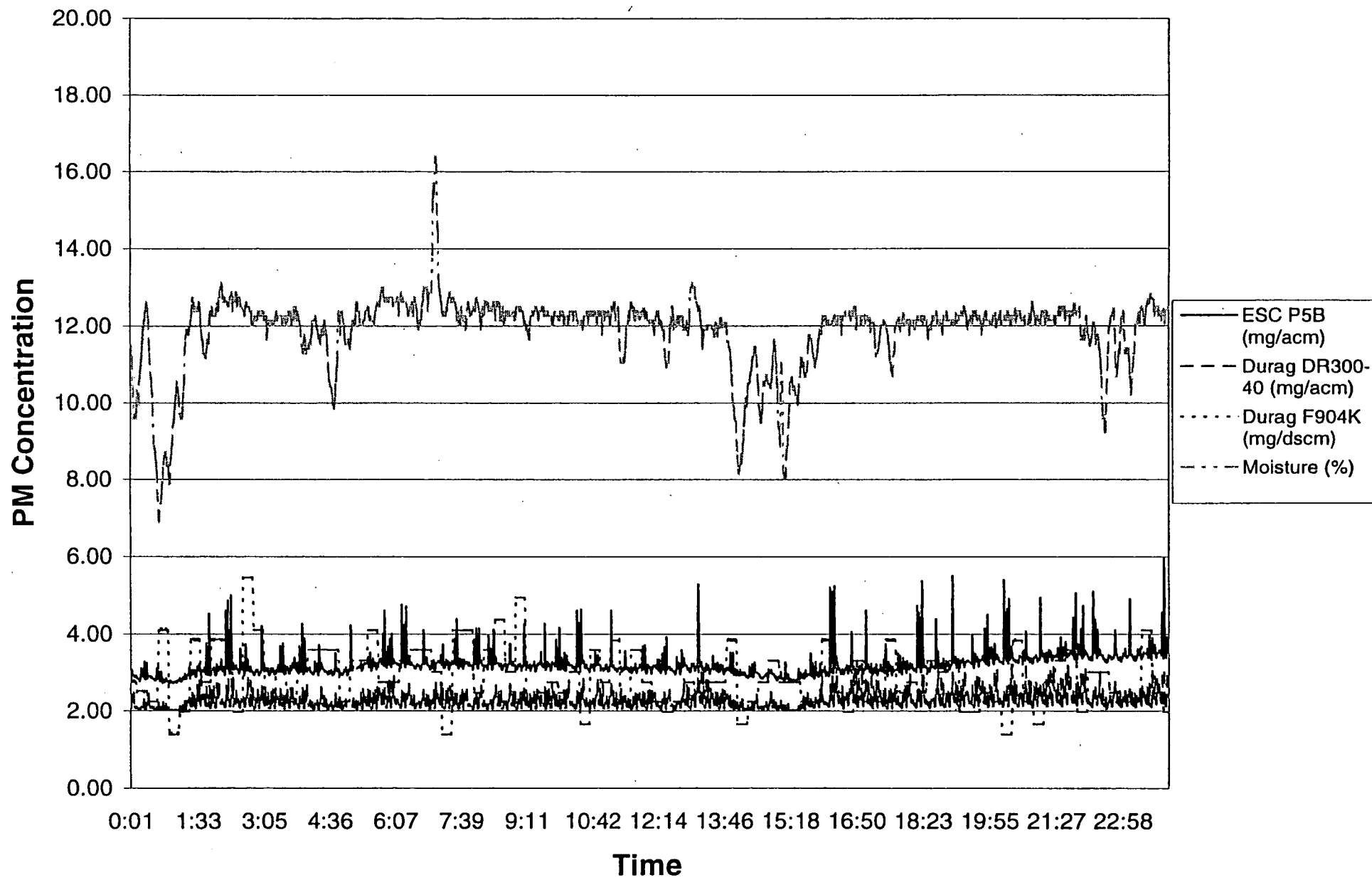
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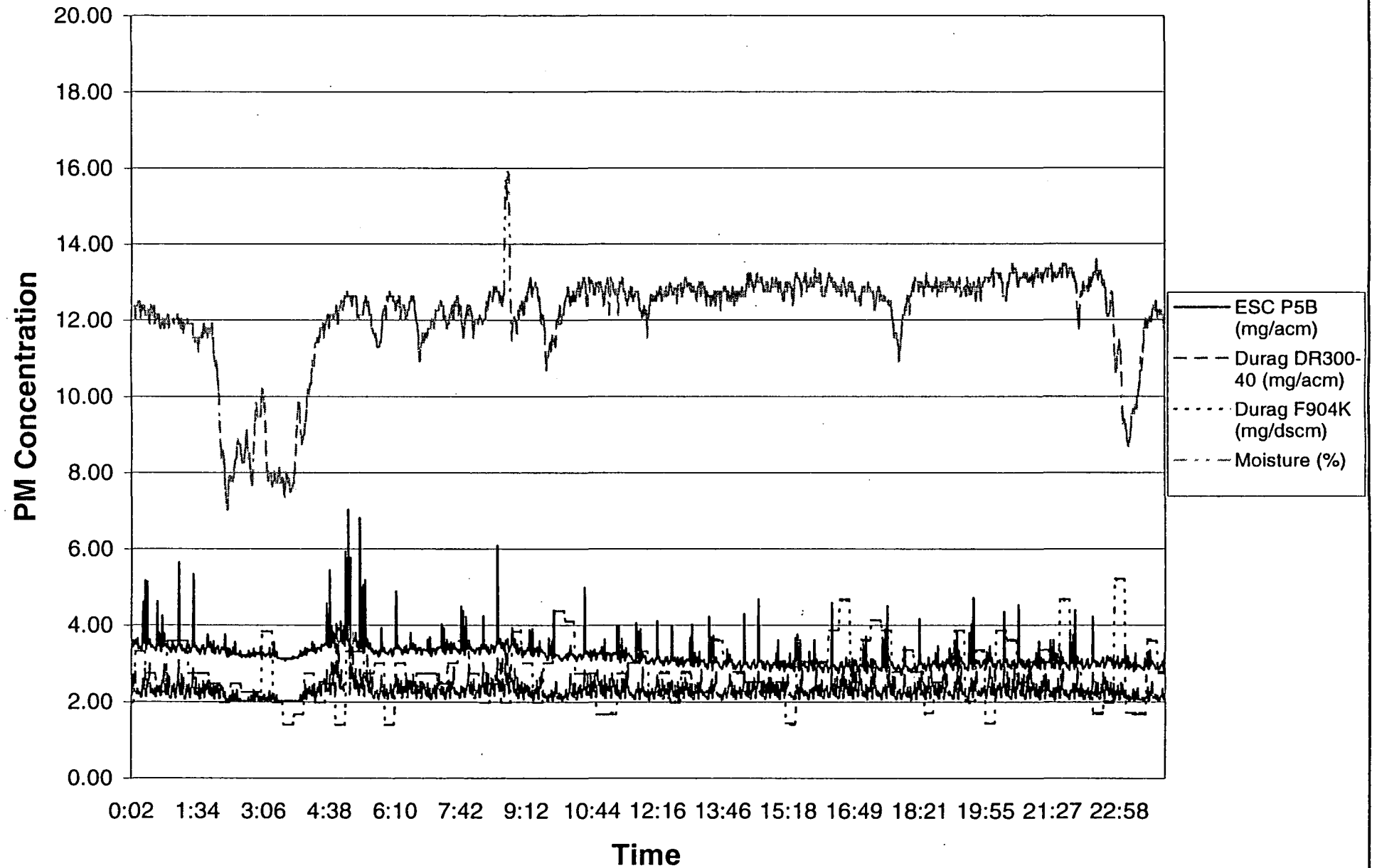
February 14, 2000



February 15, 2000



February 16, 2000



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(Please read Instructions on reverse before completing)

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16. ABSTRACT This final report describes an extended field demonstration of three particulate matter (PM) continuous emission monitoring systems (CEMS) at a coal-fired boiler equipped with a lime slurry scrubber and baghouse for air pollution control. The primary objectives of the field study were to: (1) demonstrate whether the PM CEMS could provide reliable and accurate data over an extended period, (2) evaluate the PM CEMS for durability, data availability, and setup/maintenance requirements, and (3) determine whether the PM CEMS satisfy all the requirements of draft PS-11 and the quality assurance (QA) criteria specified in draft Procedure 2, or determine if changes are needed in the requirements of PS-11 and/or Procedure 2. This report presents the results of the study involving two different PM CEMS technologies (light scatter and beta gauge) at the coal-fired boiler. The report consists of five separate volumes.		
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