

# Incoming Materials Validation

Applied Analytics Application Note No. AN-022



## Application Summary

Analyte: **change in absorbance spectrum**

Detector: **OMA-300 Process Analyzer**

Process Stream: **incoming material stream**

## Introduction

The ability to validate the precise composition of incoming materials can be a necessity, especially in pharmaceuticals and fine chemical production. Since analyzing the concentrations of variant chemicals in the complex incoming mixtures requires great expense and an arsenal of different equipment, the OMA system presents a cost-effective, practical alternative.

The OMA uses spectral recognition as the analysis method: when the shape of the sample absorbance structure strays from the stored reference, the analyzer sends an alarm to the operator. The system can also be configured to display the derivative of the absorbance spectrum to show any changes from the expected curve.

# Incoming Materials Validation

Applied Analytics Application Note No. AN-022

Revised 12 April 2017

## Further Reading

Subject	Location
OMA-300 Process Analyzer Data sheet	<a href="http://aai.solutions/documents/AA_DS001A_OMA300.pdf">http://aai.solutions/documents/AA_DS001A_OMA300.pdf</a>
Advantage of Collateral Data Technical Note	<a href="http://aai.solutions/documents/AA_TN-202_CollateralData.pdf">http://aai.solutions/documents/AA_TN-202_CollateralData.pdf</a>



is a registered trademark of Applied Analytics, Inc. | [www.aai.solutions](http://www.aai.solutions)

### Headquarters

Applied Analytics, Inc.  
Burlington, MA | [sales@aai.solutions](mailto:sales@aai.solutions)

### Asia Pacific Sales

Applied Analytics Asia Pte. Ltd.  
Singapore | [sales@appliedanalytics.com.sg](mailto:sales@appliedanalytics.com.sg)

### India Sales

Applied Analytics (India) Pte. Ltd.  
Mumbai, India | [sales@appliedanalytics.in](mailto:sales@appliedanalytics.in)

### North America Sales

Applied Analytics North America, Ltd.  
Houston, TX | [sales@appliedanalytics.us](mailto:sales@appliedanalytics.us)

### Middle East Sales

Applied Analytics Oil & Gas Operations, L.L.C.  
Abu Dhabi, UAE | [sales@appliedanalytics.ae](mailto:sales@appliedanalytics.ae)

### Europe Sales

Applied Analytics Europe, AG  
Genève, Switzerland | [sales@appliedanalytics.eu](mailto:sales@appliedanalytics.eu)

### Brazil Sales

Applied Analytics do Brasil  
Rio de Janeiro, Brazil | [vendas@aadbl.com.br](mailto:vendas@aadbl.com.br)

© 2017 Applied Analytics, Inc. Products or references stated may be trademarks or registered trademarks of their respective owners. All rights reserved. We reserve the right to make technical changes or modify this document without prior notice. Regarding purchase orders, agreed-upon details shall prevail.