

Automated Production Validation Using Analytics.

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Abstract

The Mass Spectrometer is widely use in Pharmaceutical and Semiconductor Fabrication facility. The main goal of Mass Spectrometer is to measure the amount of elements present in the gas chamber. Gas Chamber is the input of the device where blend of gas, Atmospheric Air, Fab-lab vacuum chamber and Pharmaceutical production line.

ATONARP Mass Spectrometer has different kind of electronics components, and the working of each component defines the accuracy of Spectrum. Those components are used in different kind of Electronics PCB boards; each board has a specific purpose. In AMS There are main 2 parts which is Controller Box and Power Entry Boards.

Power Entry Boards consist Power entry Base board and Daughter boards 1 and 2, where Controller box consist RF Drive Board, Ion Drive Board, Ion Detector, Power Supply Board, Front panel Board and Baseboard

Functionality of each board is checked by test case. A test case is developed based on the functionality which user wants in the device. For different Boards there will be multiple Features. Test case run on each available system as well as on Emulator and the data of the test-case is stores in Master.log file. A script is developed to abstract that data from Master.log file to. csv file and based on that result the Key performance index is defined.

Biography:

Mr. Alex Parmar is a doing his masters for Engineer In Embedded Systems)Institute of Technology, Nirma University On Behalf of Atonarp Microsystem Pvt. Ltd.

Speaker Publications:

1. “Automated Production Validation Using Analytics”; Journal of R&D. / 2020 / 8(8) /pp 2311-3278

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