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(54) **Title:** METHODS AND SYSTEMS FOR ASSESSING CHROMATOGRAPHIC COLUMN INTEGRITY

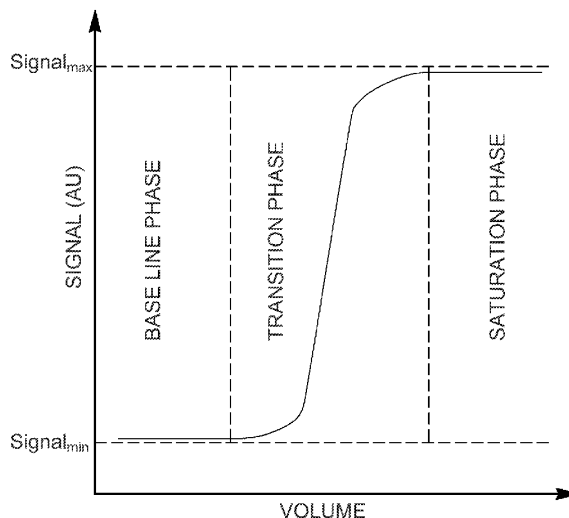


FIG. 1

(57) **Abstract:** A method for assessing chromatographic column integrity may include introducing acetone into a chromatographic column and measuring absorbance values of an eluate of the chromatographic column. The method for assessing chromatographic column integrity may also include generating a first data structure based on the absorbance values, implementing a fitting algorithm based on the first data structure to generate a transition function, generating a second data structure based on the transition function, and generating a transition plot based on the first and second data structures, wherein the transition plot includes transition plot-related data. A value of a performance parameter may be generated based on the transition plot-related data.

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