

Supporting Information

Pixel-Based Analysis of Comprehensive Two-Dimensional Gas Chromatograms (Color Plots) of Petroleum : A Tutorial

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Step	A
Raw data	27.5%
Background removed (different number of splines)	28.3%-28.6%
² t _E aligned	39.8%
¹ t _R aligned (different segment lengths and slacks)	40.0%-46.0%
Normalized	38.5%
Transformed	40.9%
Scaled	78.9%

Table S1: A at different preprocessing steps for dataset 1

Step	A from facilitator chromatograms	A from chromatograms from quality control sample
Raw	24.7%	28.7%
50 Hz noise removed	49.17%	66.5%
Background removed	72.2%	74.5%
Smoothed	76.2%	79.8%
² t _R aligned	84.6%	88.4%
Normalized to maximum	84.2%	82.9%
Normalized to Euclidean norm	41.5%	68.9%
Normalized to sum	82.4%	83.5%
Normalized weighted sum	84.5%	82.8%
Scaled	87.5%	83.6%

Table S1: A at different preprocessing steps for dataset 2

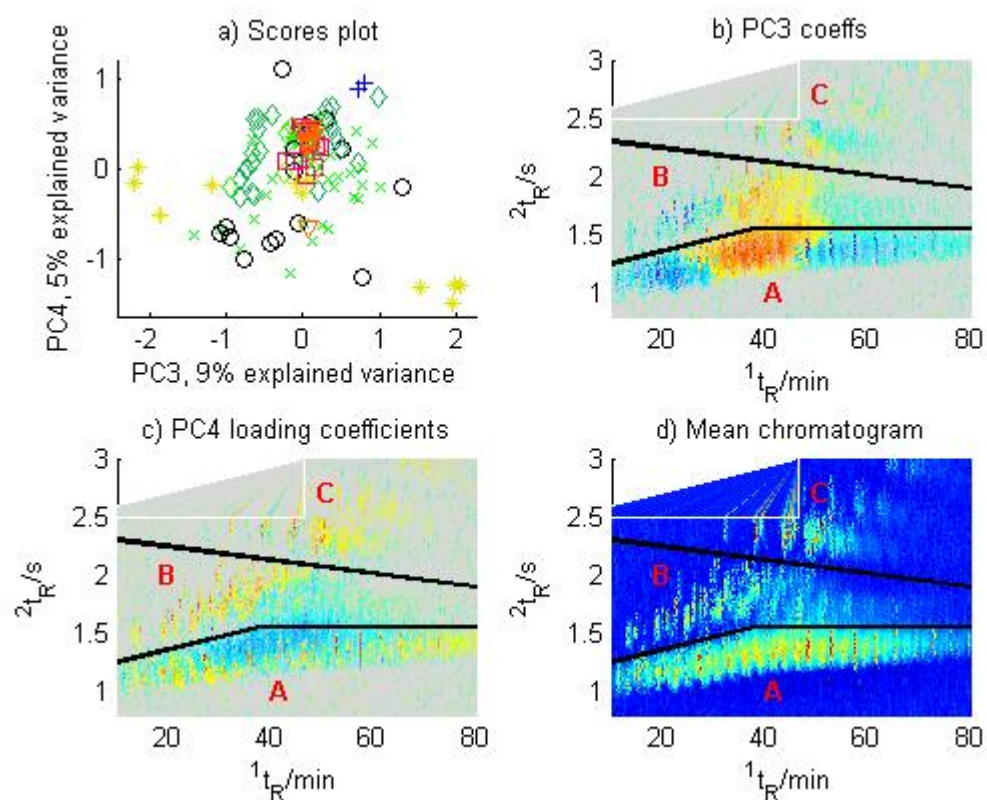


Figure S1: PC3 versus PC4 for dataset 2

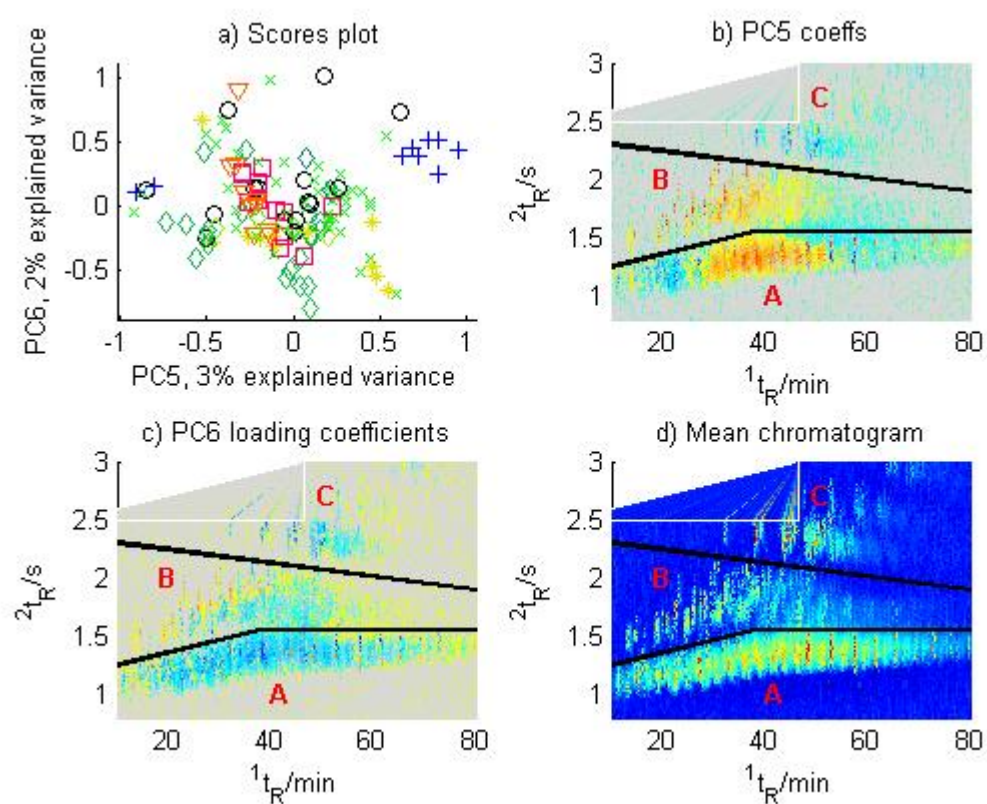


Figure S2: PC5 versus PC6 for dataset 2