

Adsorbent Discovery Made Faster

Parallel adsorption
breakthrough testing system
tailored to your needs



Accelerated adsorbent testing gas/liquid equipment

- Multiple columns in parallel
- Small sample volumes

High Quality Results

- High accuracy due to patented micro fluid distribution
- Excellent process control
- Industrially scalable results

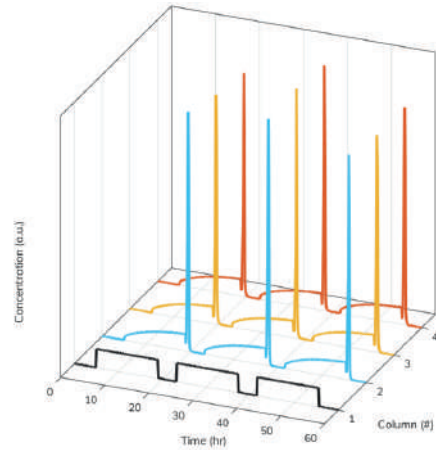
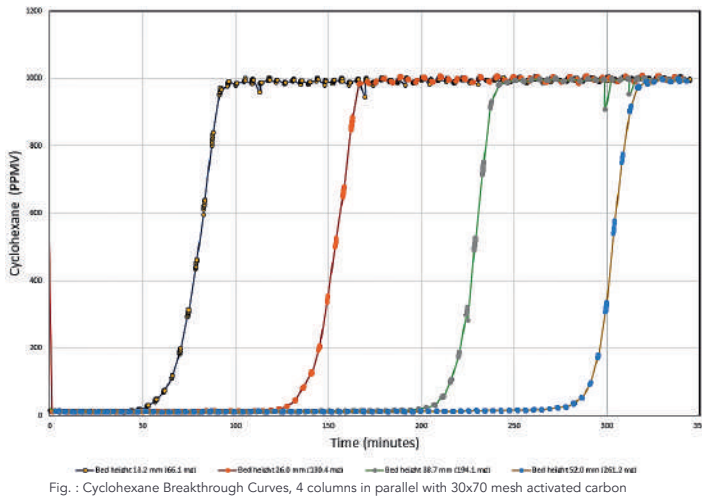
Flexibility

- Broad operating window with multiple gas feeds
- Powder and granular adsorbent



Gas Phase Testing at Atmospheric Conditions

- Dosing vapors and contaminants in wet or dry gasses
- Studying water vapor adsorption - desorption
- Cyclic adsorption – desorption testing



Gas Phase Testing

- Dosing up to 5 challenger gasses
- From atmospheric to high pressure
- Cyclic adsorption – desorption testing (e.g. TSA, PSA)

General Capabilities

- Up to 16 small columns in parallel
- Sample pre-conditioning
- Capable of testing both powder and pelletized material
- Inline Analytics (e.g. MS, FTIR, GC)

Versatile System for Liquid Phase Adsorption Challenges

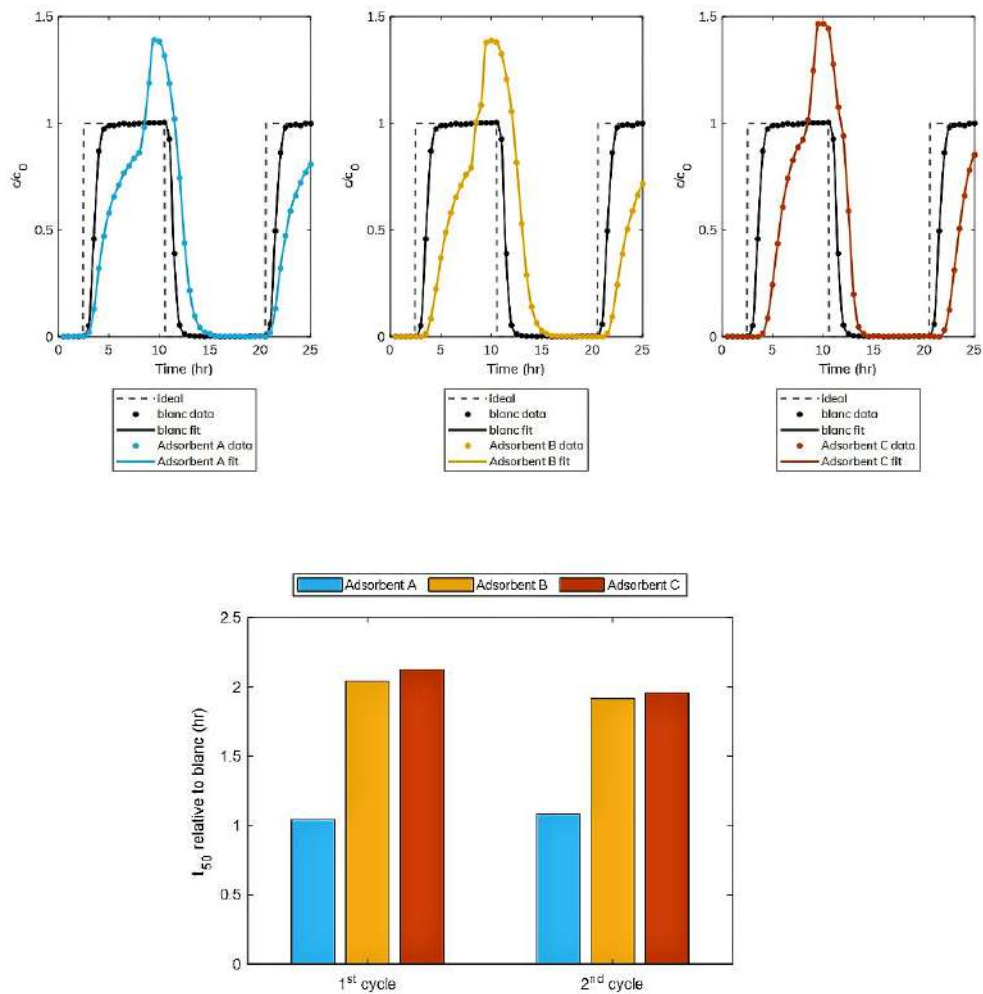


Fig. 1&2 : Organic contaminant removal from a Biorefinery stream by adsorption and subsequent desorption by a clean fluid at elevated temperature

Liquid Phase Testing

- Liquid feed both aqueous and organic possible
- From ambient to high temperatures
- Sample pre-wetting
- Cyclic adsorption – desorption testing
- Inline conductivity, refractive index.
- Offline sample collection and analyses