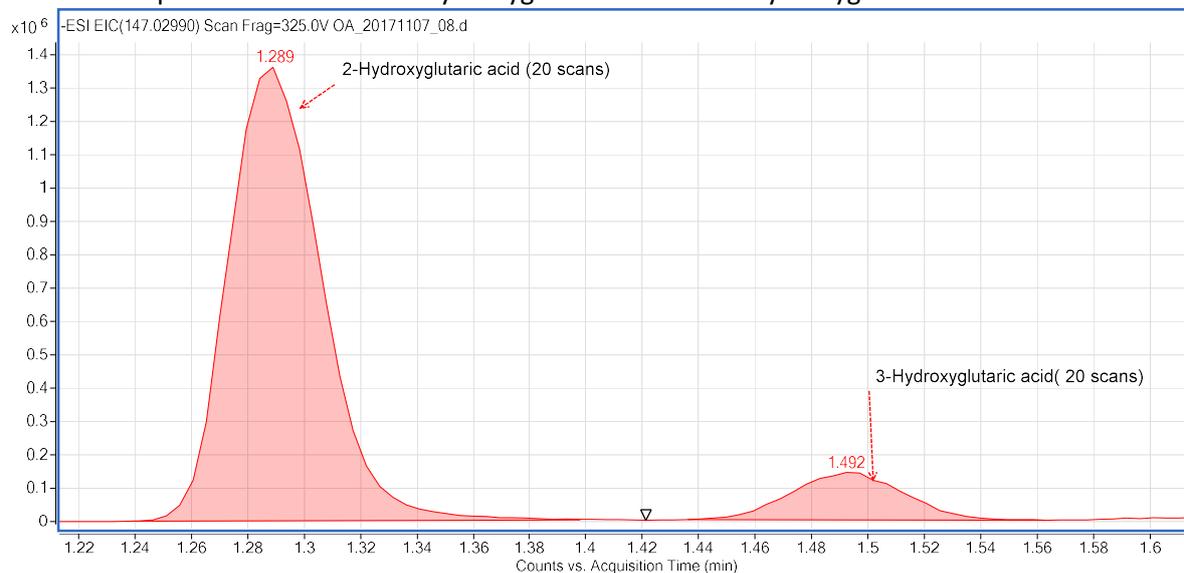


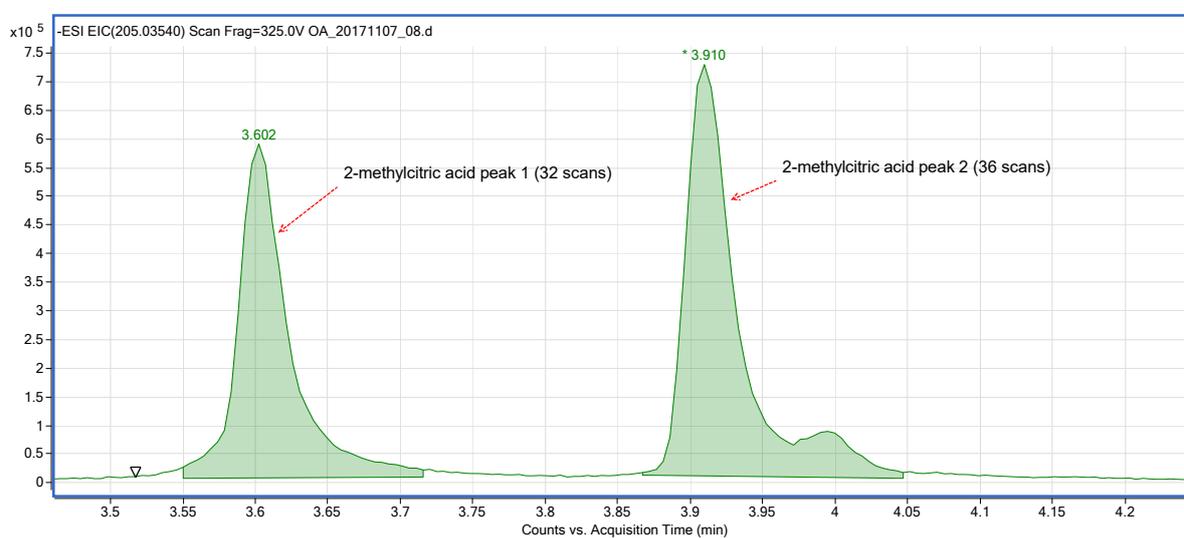
Supplemental Figure: Typical chromatograms of peaks with poor peak shape or from isomers.

A. The separation of isomers 2-Hydroxyglutaric acid and 3-Hydroxyglutaric acid



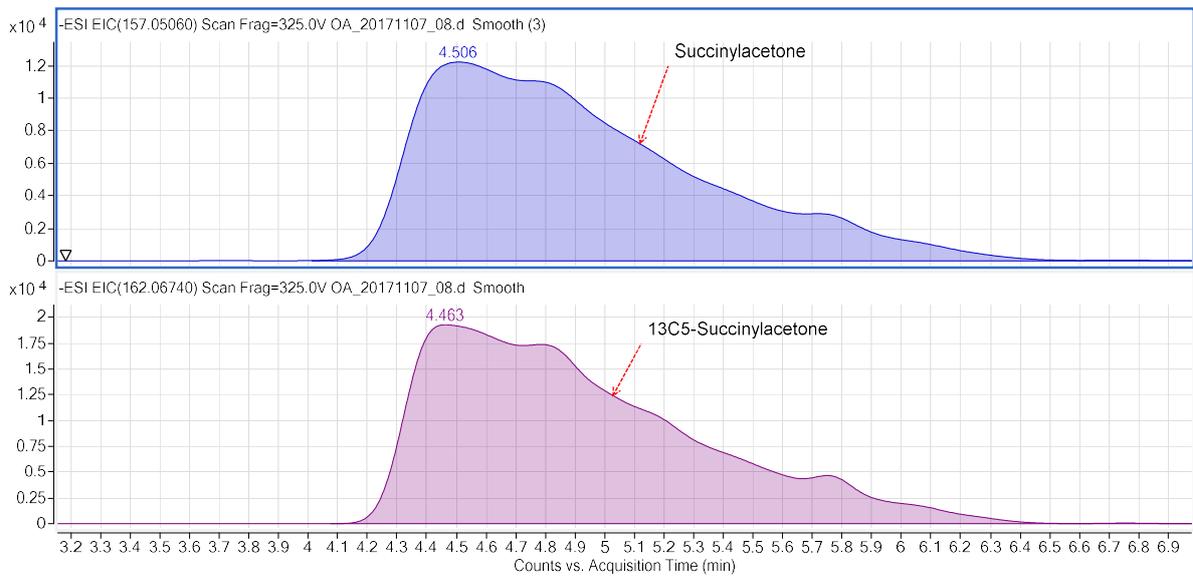
Standard 2-Hydroxyglutaric acid concentration is 153 μM ; Standard 3-Hydroxyglutaric acid 58 μM

B: The multiple-peaks of 2-methylcitric acid



Standard 2-methylcitric acid concentration 150 μM

C: The poor peak shape of succinylacetone



Standard Succinylacetone concentration 53 μM ; Internal standard 13C5-Succinylacetone 75 μM