

**Supplementary Table 1.** Pilot study using 17 isolates (marked by \* in Table 1) extracted at the NIH at Centers 1 and 2 evaluating pre- and post- instrument optimization using routine spectral acquisition methods for each site, and performance on the instrument at Bruker US headquarters at Billerica, MA.

Description	Acquisition method	Log score $\geq 1.7$ (%)	p-value
Center 1 (NIH) pre-optimization	NIH method	76	<p>0.3</p> <p>0.2</p> <p>0.0002</p> <p>0.001</p> <p>&lt;0.0001</p> <p>1.0</p> <p>1.0</p>
Center 1 (NIH) post-optimization	NIH method	94	
Center 2 pre-optimization	MBT_AutoX	59	
Center 2 post-optimization	MBT_AutoX	31	
Center 2 extracts returned to NIH	NIH method	88	
Bruker US Headquarters	MBT_AutoX	100	