I isolated each constituent by fixing 4 and allowing the 5th to vary.

Then, averaged the varying spectra to obtain a representative curve.

* However, the average curve is not falling where I would expect it to in relation to the others.
* Also, sometimes the curve shapes are not all similar. Some feature peaks or features that are different from the rest.

**Jeffries-Matusita Distance** – can calculate in ENVI to compare!

JM distance is a function of the separability that directly relates to the probability of how good a resultant classification will be.

Inputs:

Class 1 signature

Class 2 signature

Covariance matrix of Class 1

Mean vector of class 1

Bhattacharyya Distance