
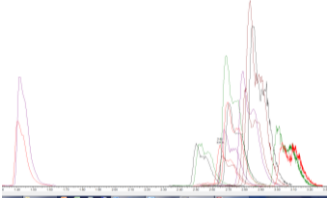
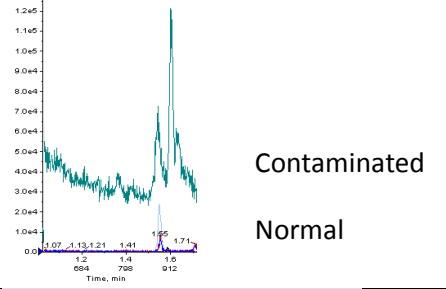
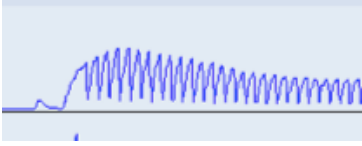


**Table 6**

**Examples of LC problems diagnosed from peak shape and pressure traces**

Cause	Symptom	Example
Injection volume too high &/or organic content of injection matrix too high (reverse phase) or insufficient LC equilibration	Shoulder on peaks OR tailing peaks & short Rt for early eluting peaks, decreased resolution	
Bad LC connection (gap between tubing and mating port) OR aged column/guard column	Wide, tailing or double/split peaks	
Contaminated mobile phase	High baseline, decreased signal (low S/N)	
Air in pump heads, "sticky" check valve	Short term noise in pressure trace	
Leak from failed LC connection after flow is turned on	Sudden drop in pressure trace when tolerance of the poor connection is exceeded	