The project objective was to quickly develop a product using a high speed GC analyzer to detect explosives. The sample is obtained by "sniffing" with a vacuum sampler onto a special substrate that picks up trace explosive compounds found on clothing, luggage or packages. The substrate is loaded into the sample port and analyzed. This product is usually located in the TSA screening or luggage processing areas before getting to the gate at airports, train stations or cruise ships. The challenge was to develop a product using an older sampling method while integrating the new method. This was achieved by hiding the older vacuum dock under the front green panel and the newer ticket port on the top. The whole cabinet unfolds for internal access using a single lock. Evaluating serviceable component access for "shipped to" service, site service, and daily routine maintenance was achieved using multiple foam component models. Sheet metal was used for risk mitigation due to the short time line.