



## Swedish Match Testimony: Monitoring and analysing tobacco products

Swedish Match is a Tobacco Company with a complete range of market-leading brands in its products area, such as snuff, chewing, tobacco, cigars and pipe tobacco.



« We use the Alpha M.O.S Fox Electronic Nose for monitoring and analysing tobacco products. Our instrument has twelve (12) sensors and the mass spectrometric units installed. We have found that the addition of the mass spectrometer has increased our ability to monitor various compounds in our products.

### Keep Laboratory Productivity High

This instrument is an excellent tool for quality assurance analysis of our products. We can monitor flavors and ingredients added to the products much more simply and with a shorter analysis time than conventional separation methods. With the electronic nose, the sample preparation is very simple: weigh out the sample (usually 0.5 grams)[sometimes the product may need to be homogenized, e.g. cigars], place in sample vial, cap the vial, and place the vial into the autosampler on the e-nose. This is compared to an hour long extraction for conventional analysis followed by sample cleanup and analysis. The analysis times are short and the equilibration times between samples are not long (~20-25 minutes). The instrument can run unattended and complete a significant number of samples per day. The data analysis is simple and the quantitation is extremely simple to accomplish. The ability of the unit to correct for changes in the sensor, based on standards run once a week, prevents drift. The instruments abilities have allowed me to leverage human resources by enabling the operator to multitask.



As mentioned above, we use the instrument for quality assurance, shelf-life analysis, work in process monitoring, and new product development.

We are very happy with the instrument, the software, and the capabilities that we have gained from this purchase. All of our current methods are simple, fast, accurate, and highly reproducible. The more we work with the instrument, the more applications we see.

I have found Alpha MOS to be very responsive to our needs including training, service, and application development. Our experiences with the Alpha MOS electronic nose have been very positive. »