



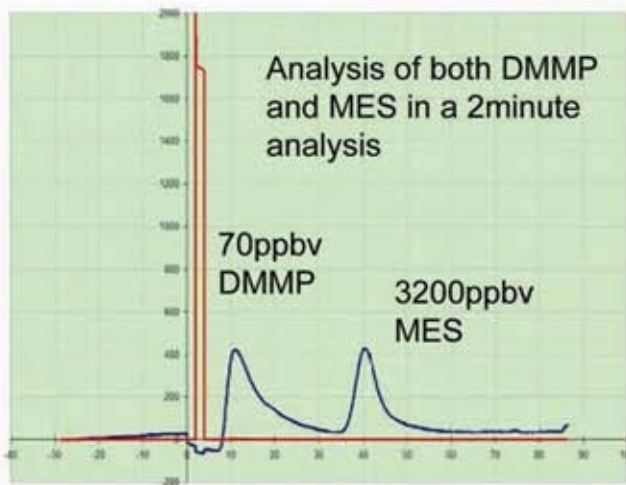
Micro Chem Analysis Device



This new technology combines three microfabricated components: a chemical preconcentrator, a gas chromatographic column and a SAW array detector. A designer chemical coating on the preconcentrator ignores potentially interfering chemicals while collecting chemicals of interest. What makes this technology simple unique is its ability to separate chemicals using gas chromatography. Chemical mixtures are separated, arriving at the detector at different times.

What can chemical selectivity do for you?

The system was introduced to a mixture of three chemicals. Two chemicals were target chemicals DMMP and Methyl Salicylate (MES). The third was an industrial solvent, ethylene chloride at a concentration a few orders of magnitude higher than DMMP and MES. This technology shows little or no response for very high concentrations of an interfering chemical like methylene chloride. However, the very small amounts of chemical surrogates for Sarin (DMMP) and mustard (MES) produce a very large response. Both are detected in the same analysis but reach the detector at different times thanks to an integrated micro gas chromatography.



Above. The display shows little or no response for very high concentrations of an interfering chemical like methylene chloride. However, very small amounts of chemical surrogates for Sarin and mustard produces a very large response at different times thanks to an integrated micro gas chromatography. This technology provides the high confidence answers you expect from a chemistry lab without paying for the chemists and a room full of equipment. This is achieved with unique micro devices and accompanying designer nanomaterials. At the press of a button non experts can use our products to determine harmful chemicals and unlike competing technologies it will ignore harmless ones like colognes, car exhausts, and cleaning products that surround us all the time.



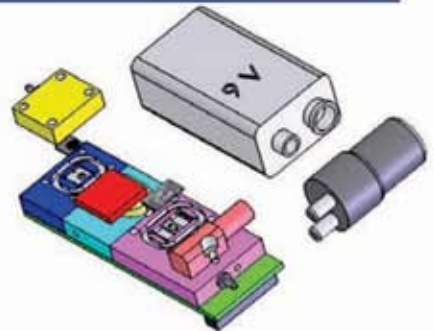
Micro Chem Analysis Device

A handheld battery operated chemical analysis system.



Features

- 2 min 19 sec complete analysis cycle
- 4 hour battery life for continuous use
- Dimension=7-1/2"L x 5-1/16"W x 2-1/8"D
- Chromatographic data serial output
- Selectivity for phosphonates >6000 to 1 over diesel and >500,000 to 1 over water
- Chromatographic data serial output
- Separate short message serial output
- Lithium polymer (LiPo) battery charger and A/C adapter
- Uses ambient air, no compressed gases need



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