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## Analysis of explosive material from several firework and gunshot residue by using analytic techniques and electronic nose

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appear in various color and to make explosive force. Result from atomic absorption spectroscopy and gas chromatography-mass spectrometry are used to determine chemical element, different substance compound and volatile gas substance. For electronic nose, result can be described similar to these results from analytical techniques. The electronic nose system can be used to classify the type of explosive products.

Keywords: Electronic nose, Explosive material, gas chromatography, sensor array

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