

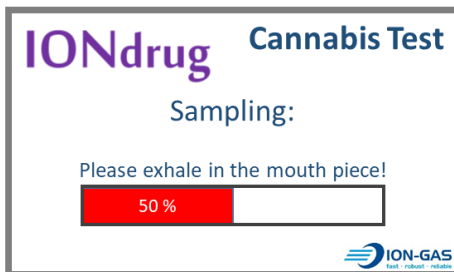
## IONdrug- IMS based Cannabis breathalyzer

**4 steps and 90 seconds**

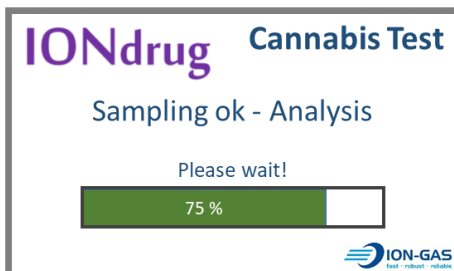
**1.**



**2.**



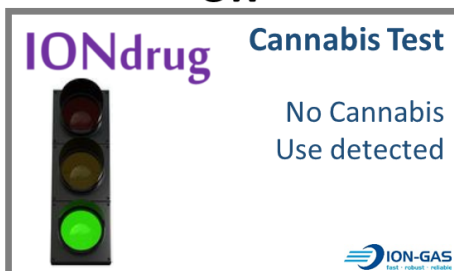
**3.**



**4.**



**OR**



Characteristic substances resulting from Cannabis consumption can be found in exhaled breath and their detection is indicative of the consumption. This can be used in various situations like during traffic control.



The technology was developed and verified under lab conditions with legal volunteers – no *False-Positives* have been reported up to now.

The hardware is based on ion mobility spectrometry coupled to rapid gas-chromatographic pre-separation (GC-IMS). The instrument weighs 8 kg and enables the battery driven mobile operation for up to 4 hours.

Soon, IONdrug will be validated and thus enable even the determination of the approximate time of Marijuana consumption. Furthermore, the extension of the method on other common drugs (Heroin, Cocaine, Amphetamine, Crystal Meth or date rape drugs-GHB) is planned.

The determination of drug consumption follows approx. 90 s after sampling.

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### Technical Data

- Non-invasive sampling
- Dimensions 300 x 300 x 160 mm and 8 kg weight incl. battery
- Autonomous battery operation approx. 4 h
- Warm up: 30 min
- Operation at -10 °C to + 35 °C and 0 – 85 % relative humidity
- Ionisation with Tritium below the EURATOM threshold