

Samples HOOKAH/SHISHA
delivered by TF2 s.a.l.
Analysis reference : 08010802-03
Date of Analysis : 09/01-05/02/2008
Requested by : TF2 s.a.l.

RESULTS OF ANALYSIS

HOOKAH/SHISHA (WITHOUT COOLING)

1- Carbon monoxide

The Hookah/Shiha was smoked using a special device (500 mL trap) for smoke sampling in order to determine the monoxide levels.

Carbon monoxide levels: 1.05 mL/1 liter of smoke

2-Nicotine

The concentrations of Nicotine in the Shisha water tank were determined using High performance Liquid Chromatographic method. The result obtained was as follows:

Nicotine Level: 1.05 mg/L

3- Polycyclic Aromatic Hydrocarbons

The concentrations of PAH in the Shisha water tank were determined using a gas chromatographic Mass spectrometric method.

	µg/L
1- Naphtalene	1.054
2- Acenaphtylene	< 0.01
3- Acenaphtene	0.095
4- Fluorene	< 0.01
5- Phénanthrene	0.396
6- Anthracene	< 0.01
7- Fluoranthene	< 0.01
8- Pyrene	< 0.01
9- Benz(a) anthracene	< 0.01
10- Chrysene	< 0.01
11- Benzo(b) fluoranthene	< 0.01
12- Benzo(k) fluoranthene	< 0.01
13- Benzo(a) pyrene	< 0.01
14- Indeno (1,2,3, cd) pyrene	< 0.01
15- Dibenz(a,b) anthracene	< 0.01
16- Benzo(ghi) perylene	< 0.01

HOOKAH/SHISHA - FROSTY WATER TANK (SHEECOOL)

1- Carbon monoxide

The Hookah/Shisha was smoked using a special device (500 mL trap) for smoke sampling in order to determine the monoxide levels.

Carbon monoxide levels: 0.963 mL/1 liter of smoke

2-Nicotine

The concentrations of Nicotine in the Shisha water tank were determined using High performance Liquid Chromatographic method. The result obtained was as follows:

Nicotine Level: 1.53 mg/L

3- Polycyclic Aromatic Hydrocarbons

The concentrations of PAH in the Shisha water tank were determined using a gas chromatographic Mass spectrometric method.

	µg/L
1- Naphtalene	1.48
2- Acenaphtylene	< 0.01
3- Acenaphtene	0.09
4- Fluorene	< 0.01
5- Phénanthrene	0.648
6- Anthracene	< 0.01
7- Fluoranthene	< 0.01
8- Pyrene	< 0.01
9- Benz(a) anthracene	< 0.01
10- Chrysene	< 0.01
11- Benzo(b) fluoranthene	< 0.01
12- Benzo(k) fluoranthene	< 0.01
13- Benzo(a) pyrene	< 0.01
14- Indeno (1,2,3, cd) pyrene	< 0.01
15- Dibenz(a,b) anthracene	< 0.01
16- Benzo(ghi) perylene	< 0.01

Conclusion:

The levels of Nicotine, Naphtalene and Phenanthrene increased in the Shisha Water tank equipped with a frosty water tank (SheeCool). This increase is explained by the condensation of these toxic compounds at low temperatures and their retention in the water tank.

