

Comparative Analysis: Marijuana & Tobacco Cigarette Smoke

Comparative analysis of mainstream smoke from marijuana and tobacco reference cigarette
(Average Weight: 1.110 mg; Length: 85mm)

<i>Measurements</i>	<i>Marijuana Cigarettes</i>	<i>Tobacco Cigarette</i>
Gas Phase		
Carbon monoxide, volume %	3.99	4.58
Carbon dioxide, volume %	8.27	9.38
Ammonia, JJ.g	228	199
HCN, JJ.g	532	498
Cyanogen, (CN) ₂ , JJ.g	19	20
Isoprene, JJ.g	83	310
Acetaldehyde, JJ.g	1,200	980
Acetone, JJ.g	443	578
Acrolein, JJ.g	92	85
Acetonitrile, JJ.g	132	123
Benzene, JJ.g	76	67
Toluene, JJ.g	112	108
Vinyl Chloride, * ng	5.40	12.40
Dimethylnitrosamine, * ng	75	84
Methylethylnitrosamine, * ng	27	30
Particulate Phase		
Total particulate matter, dry, mg	22.70	39
Phenol, JJ.g	76.80	138.50
O-Cresol, JJ.g	17.90	24
m- and p-Cresol, JJ.g	54.40	65
Dimethylphenol, JJ.g	6.80	14.40
Catechol, JJ.g	188	328
Cannabidiol, JJ.g	190	
Delta-9-tetrahydrocannabinol, JJ.g	820	
Cannabinol, JJ.g	400	
Nicotine, JJ.g		2.85
N-Nitrosomonicotine, * ng		390
Naphthalene, JJ.g	3	1.20
1-Methylnaphthalene, JJ.g	6.10	3.65
2-Methylnaphthalene, JJ.g	3.60	1.40
Benz(a)anthracene, * ng	75	43
Benzo(a)pyrene, * ng	31	21.10