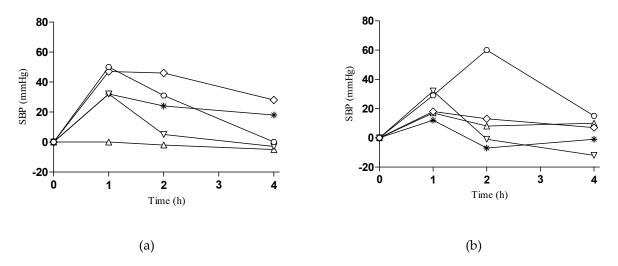
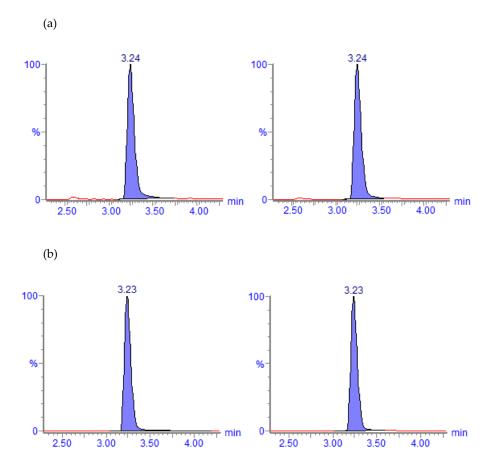




## Supplementary materials



**Figure S1.** (a). Individual data of systolic blood pressure (SBP) after oral self-administration (n=5); (b) Individual data of systolic blood pressure (SBP) after intranasal self-administration (n=5).



**Figure S2.** (a) Mephedrone chromatogram of a participant that self-administrated orally 150 mg of mephedrone (right) and one subject that self-administrated 50 mg intranasal (left) from and oral fluid sample (b) Chromatograms of the internal standard used for the previous samples (Mephedrone-d3).

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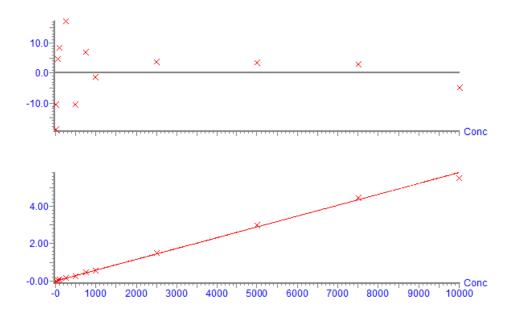
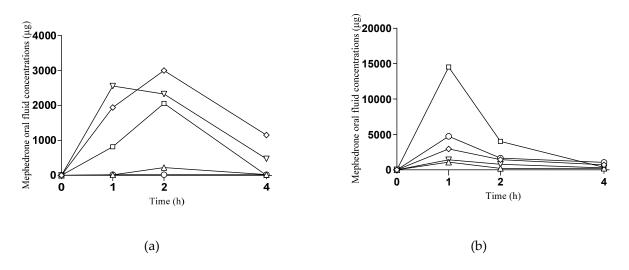


Figure S3. Linearity parameters of the oral fluid methodology.



**Figure S4.** (a) Individual data of time-course of mephedrone oral fluid concentrations after oral self-administration of mephedrone (n=5); (b) Individual data of time-course of mephedrone oral fluid concentrations after intranasal self-administration of mephedrone (n=5).

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**Table S1.** Summary of time course result on the physiological and subjective effects observed after self-administration of oral (n=5) and intranasal (n=5) mephedrone.

	Comparison to baseline	
	Dunn	ett's test
	oral	intranasal
SBP	<b>a</b> , b	NS
DBP	<b>a</b> , b	a
HR	a, <b>b</b>	a
T	NS	a
Intensity	a, b	a
Stimulated	a, b	a
High	a, b	a
Good effects	a, b	a
Liking	a, b, c	<b>a</b> , b
Content	a, b, c	a
Changes in colors	NS	
Changes in shapes	NS	
Changes in lights	NS	
Hallucinations-seeing of lights or spots	NS	
Hallucinations-seeing animals, things,	NC	
insects, or people	NS	<del></del>
Changes in hearing	NS	NS
Hallucinations-hearings of sounds or	NC	
voices	NS	<del></del>
Different body feeling	a	a
Unreal body feeling	NS	NS
Changes in distances	NS	
Different surroundings	NS	NS
Unreal surroundings	NS	
Confusion	NS	NS
Fear		NS
Depression or sadness	NS	NS
Drowsiness	NS	NS
Dizziness	NS	NS
Bad effects	NS	NS
Headache	NS	NS
Nausea		
Vertigo	NS	
Breathing difficulty		
Face flushing	NS	NS
ARCI-PCAG	NS	<b>a</b> , b
ARCI-MBG	a, b	a
ARCI-LSD	NS	NS
ARCI-BG	<b>a</b> , b	a, b
ARCI-A	<b>a</b> , <b>b</b> , c	a, b
VESSPA-S	NS	NS
VESSPA-ANX	a, <b>b</b>	a, b
VESSPA-CP	NS	
VESSPA-SOC	a, b	a

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VESSPA-ACT	<b>a</b> , <b>b</b> , c	a
VESSPA-PS	a	NS

For T-C a post-hoc Dunnett's test for multiple comparisons was used (see Statistical analysis). Statistical differences between are presented as "a" p<0.05, " $\mathbf{a}$ " p<0.01 (times 0- 1 h), "b" p<0.05, " $\mathbf{b}$ " p<0.01 (times 0- 2 h), "c" p<0.05, " $\mathbf{c}$ " p<0.01 (times 0- 4 h).