

Table S5.1. The relative standard deviation (RSD) values (%) for tryptamine, DMT, 5-MeO-DMT, THH, harmaline and harmine in standard solution at 0.25, 1 and 5 µg/mL over an inter-day period of seven days.

Compounds	0.25 µg/mL	1 µg/mL	5 µg/mL
Tryptamine	3.52	2.75	2.48
DMT-D₄	1.64	1.65	0.98
DMT	2.74	2.64	1.32
5-MeO-DMT	2.22	2.95	2.10
THH	2.41	1.97	1.32
Harmaline	3.33	1.45	2.39
Harmine-D₃	1.29	1.64	1.73
Harmine	1.10	1.32	1.10

Table S5.2. The relative standard deviation (RSD) values (%) for tryptamine, DMT, 5-MeO-DMT, THH, harmaline and harmine in each plant over an inter-day period of seven days.

Compounds	<i>Psychotria Carthagenensis</i>	<i>Banisteriopsis caapi</i>	<i>Alicia anisopetala</i>	<i>Psychotria viridis</i>
Tryptamine	4.73	N/A	N/A	4.90
DMT	N/A	N/A	N/A	3.84
5MeODMT	N/A	N/A	N/A	N/A
THH	N/A	4.03	N/A	N/A
Harmaline	N/A	2.65	N/A	N/A
Harmine	N/A	4.69	N/A	N/A