

Table S1. The average values for precision, reproducibility, accuracy, linearity, LOQ and LOD for PAH method validation.

PAHs	Precision (%)	Reproducibility (%)	Accuracy (%)	Linearity (r^2) ^a	LOQ ($\mu\text{g}/\text{kg}$)	LOD ($\mu\text{g}/\text{kg}$)
Nap	11.3	6.33	95.0	0.99853	1.20	0.30
Anl	7.91	7.82	99.0	0.99672	1.30	0.29
Ane	8.52	8.32	99.3	0.99768	1.05	0.32
Flu	2.82	10.2	100	0.99792	1.11	0.30
Ant	3.53	3.73	98.7	0.99603	1.10	0.30
Phen	4.31	11.4	85.9	0.99847	1.18	0.35
Flt	3.61	3.72	95.3	0.99787	1.15	0.30
BaA	9.44	8.6	89.7	0.99825	1.30	0.37
Pyr	4.74	6.91	91.1	0.99792	1.21	0.32
Chry	5.33	8.20	92.5	0.99810	1.13	0.34
BbF	8.52	14.3	86.4	0.99408	1.30	0.36
BkF	3.51	3.32	94.3	0.99796	1.21	0.32
BaP	3.23	3.81	96.8	0.99871	2.00	0.53
DahA	8.72	11.3	91.2	0.99534	1.99	0.51
BghiP	9.71	11.3	81.5	0.99781	1.90	0.45
InP	9.51	10.3	85.3	0.99524	1.91	0.53
min	2.82	3.32	81.5	0.99853	1.05	0.30
max	11.3	14.3	100	0.99672	1.81	0.50

(r^2)^A—Coefficient of determination; Nap—naphthalene; Anl—acenaphthylene; Ane—acenaphthene; Flu — fluorene; Ant — anthracene Phen — phenanthrene; ; Flt — fluoranthene; BaA — benzo[a]anthracene; Pyr — pyrene; Chry — chrysene; BbF — benzo[b]fluoranthene; BkF — benzo[k]fluoranthene; BaP—benzo[a]pyrene; DahA—dibenzo[a,h]anthracene; BghiP—benzo[g,h,i]perylene; InP—indeno[1;2;3-cd]pyrene; LOD—limit of detection; LOQ—limit of quantification.