

Supporting Information

for

Residues of Currently and Never Used Organochlorine Pesticides in Agricultural Soils from Zhejiang Province, China

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Table 1. Residues of organochlorine pesticides in soils (ng/g dw)

sample	α -Endosulfan	β -Endosulfan	Endosulfan-sulfate	Σ Endosulfan	TC	CC	HEPT	HEPX	Aldrin	Dieldrin
HZ 1	BLD	BLD	1.6 \pm 0.38	1.6 \pm 0.38	1.5 \pm 0.60	0.95 \pm 0.020	BLD	BLD	BLD	0.19 \pm 0.060
HZ 2	BLD	BLD	BLD	BLD	0.38 \pm 0.16	1.7 \pm 0.32	BLD	0.21 \pm 0.30	BLD	0.22 \pm 0.040
HZ 3	0.22 \pm 0.30	0.59 \pm 0.05	1.3 \pm 0.050	2.1 \pm 0.15	0.24 \pm 0.13	1.1 \pm 0.080	BLD	0.67 \pm 0.23	BLD	BLD
HZ 4	BLD	BLD	BLD	BLD	0.13 \pm 0.04	BLD	BLD	0.43 \pm 0.11	BLD	BLD
HZ 5	BLD	0.67 \pm 0.35	2.5 \pm 1.67	3.20 \pm 1.67	BLD	BLD	BLD	BLD	BLD	0.22 \pm 0.01
HZ 6	BLD	BLD	1.7 \pm 0.23	1.7 \pm 0.23	BLD	0.87 \pm 0.080	BLD	BLD	BLD	0.22 \pm 0.06
HZ 7	BLD	0.52 \pm 0.020	BLD	0.52 \pm 0.020	BLD	0.90 \pm 0.030	BLD	BLD	BLD	BLD
HZ 8	3.1 \pm 0.090	BLD	BLD	3.1 \pm 0.09	6.0 \pm 0.53	4.0 \pm 0.080	BLD	BLD	1.2 \pm 0.17	BLD
HZ 9	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD
HZ 10	BLD	BLD	BLD	BLD	BLD	16.77 \pm 0.80	BLD	BLD	BLD	BLD
HZ 11	1.36 \pm 0.030	1.94 \pm 0.24	22 \pm 3.9	24 \pm 4.2	1.0 \pm 0.22	0.89 \pm 0.10	2.0 \pm 0.04	0.74 \pm 0.05	1.3 \pm 0.12	1.7 \pm 0.03
HZ 12	0.87 \pm 0.10	2.4 \pm 0.33	17 \pm 0.75	20 \pm 1.02	3.1 \pm 0.16	3.0 \pm 0.10	6.1 \pm 0.20	1.8 \pm 0.83	5.8 \pm 0.22	3.9 \pm 0.17
JX 1	BLD	BLD	1.8 \pm 0.20	1.8 \pm 0.20	BLD	BLD	BLD	BLD	BLD	0.34 \pm 0.06
JX 2	BLD	0.61 \pm 0.02	1.6 \pm 0.18	2.3 \pm 0.18	BLD	BLD	BLD	BLD	BLD	0.41 \pm 0.10
JX 3	BLD	BLD	1.7 \pm 0.26	1.7 \pm 0.26	BLD	BLD	BLD	BLD	BLD	0.52 \pm 0.04
JX 4	BLD	0.61 \pm 0.13	BLD	0.61 \pm 0.13	BLD	BLD	BLD	BLD	BLD	BLD
JX 5	BLD	0.60 \pm 0.07	BLD	0.60 \pm 0.07	0.75 \pm 0.83	BLD	BLD	BLD	BLD	1.1 \pm 0.26
JX 6	BLD	0.46 \pm 0.02	1.3 \pm 0.030	1.8 \pm 0.08	BLD	BLD	BLD	0.37 \pm 0.010	BLD	0.51 \pm 0.040
JX 7	BLD	0.53 \pm 0.04	1.6 \pm 0.26	2.1 \pm 0.26	BLD	BLD	BLD	BLD	BLD	0.38 \pm 0.030
JX 8	BLD	BLD	BLD	BLD	0.23 \pm 0.040	1.0 \pm 0.80	BLD	0.45 \pm 0.040	BLD	0.50 \pm 0.090

sample	α -Endosulfan	β -Endosulfan	Endosulfan-sulfate	Σ Endosulfan	TC	CC	HEPT	HEPX	Aldrin	Dieldrin
JX 9	BLD	BLD	BLD	BLD	16 \pm 0.22	18 \pm 0.86	5.4 \pm 0.03	BLD	BLD	BLD
JX 10	BLD	BLD	1.5 \pm 0.080	1.5 \pm 0.080	BLD	BLD	BLD	BLD	BLD	0.34 \pm 0.070
JX 11	1.6 \pm 0.01	2.3 \pm 0.02	25 \pm 0.24	29 \pm 0.33	1.3 \pm 0.22	1.3 \pm 0.19	2.3 \pm 0.10	0.99 \pm 0.18	1.5 \pm 0.14	2.1 \pm 0.18
HUZ 1	BLD	0.52 \pm 0.13	1.5 \pm 0.23	2.0 \pm 0.13	0.33 \pm 0.060	1.1 \pm 0.18	BLD	BLD	0.70 \pm 0.070	0.44 \pm 0.23
HUZ 2	BLD	BLD	BLD	BLD	0.80 \pm 0.65	2.3 \pm 1.87	BLD	BLD	BLD	BLD
HUZ 3	BLD	0.62 \pm 0.030	2.1 \pm 0.18	2.8 \pm 0.18	0.26 \pm 0.030	1.2 \pm 0.050	BLD	BLD	BLD	BLD
HUZ 4	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	5.0 \pm 0.09
HUZ 5	BLD	0.56 \pm 0.020	6.3 \pm 0.46	6.9 \pm 0.46	6.9 \pm 0.04	BLD	0.44 \pm 0.07	BLD	BLD	BLD
HUZ 6	BLD	0.62 \pm 0.10	1.6 \pm 0.04	2.3 \pm 0.14	BLD	BLD	BLD	BLD	BLD	BLD
HUZ 7	1.4 \pm 0.15	BLD	1.7 \pm 0.19	3.1 \pm 0.33	1.6 \pm 0.26	0.89 \pm 0.08	1.8 \pm 0.24	0.90 \pm 0.15	1.3 \pm 0.25	1.4 \pm 0.08
JH 1	BLD	11 \pm 0.42	BLD	11 \pm 0.42	1.5 \pm 0.32	1.1 \pm 0.060	BLD	1.1 \pm 0.44	1.0 \pm 0.090	BLD
JH 2	BLD	BLD	BLD	BLD	11 \pm 0.08	BLD	0.50 \pm 0.06	BLD	BLD	BLD
JH 3	BLD	BLD	BLD	BLD	4.1 \pm 0.27	1.6 \pm 0.04	BLD	3.3 \pm 0.19	BLD	BLD
JH 4	BLD	0.56 \pm 0.040	2.1 \pm 0.12	2.6 \pm 0.16	BLD	1.1 \pm 0.21	BLD	BLD	BLD	BLD
JH 5	1.7 \pm 0.08	2.5 \pm 0.11	17 \pm 0.08	21 \pm 0.27	0.55 \pm 0.07	1.0 \pm 0.03	2.0 \pm 0.070	0.92 \pm 0.01	1.5 \pm 0.08	1.7 \pm 0.12
SX 1	BLD	BLD	33 \pm 1.76	33 \pm 1.76	4.7 \pm 0.84	BLD	BLD	1.3 \pm 0.05	8.5 \pm 0.49	BLD
SX 2	BLD	BLD	39 \pm 0.76	39 \pm 0.76	BLD	BLD	BLD	1.6 \pm 0.06	1.6 \pm 0.99	BLD
SX 3	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD
SX 4	BLD	BLD	1.9 \pm 0.11	1.9 \pm 0.11	BLD	BLD	BLD	BLD	BLD	BLD
SX 5	1.6 \pm 0.040	2.8 \pm 0.20	21 \pm 1.13	25 \pm 1.38	1.2 \pm 0.070	1.1 \pm 0.17	2.1 \pm 0.040	0.89 \pm 0.020	1.5 \pm 0.15	1.6 \pm 0.10
QZ 1	1.4 \pm 0.07	2.0 \pm 0.19	32 \pm 3.8	35 \pm 4.1	1.3 \pm 0.12	0.86 \pm 0.040	1.8 \pm 0.080	0.74 \pm 0.030	1.1 \pm 0.070	1.0 \pm 0.070
QZ 2	BLD	BLD	1.4 \pm 0.12	1.4 \pm 0.12	BLD	BLD	BLD	BLD	BLD	BLD
WZ 1	BLD	BLD	BLD	BLD	2.6 \pm 0.10	BLD	BLD	BLD	BLD	BLD

sample	α -Endosulfan	β -Endosulfan	Endosulfan-sulfate	Σ Endosulfan	TC	CC	HEPT	HEPX	Aldrin	Dieldrin
WZ 2	BLD	BLD	1.5 \pm 0.37	1.5 \pm 0.37	BLD	1.1 \pm 0.24	BLD	BLD	BLD	BLD
WZ 3	1.5 \pm 0.15	1.8 \pm 0.03	24 \pm 0.14	27 \pm 0.32	0.90 \pm 0.13	0.90 \pm 0.11	1.7 \pm 0.14	0.86 \pm 0.19	1.1 \pm 0.14	1.3 \pm 0.28
NB 1	BLD	BLD	BLD	BLD	1.8 \pm 0.18	BLD	BLD	2.4 \pm 0.07	BLD	1.8 \pm 0.56
NB 2	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	4.5 \pm 0.22	BLD
NB 3	BLD	11 \pm 0.77	BLD	11 \pm 0.77	BLD	BLD	BLD	BLD	BLD	BLD
NB 4	BLD	BLD	1.2 \pm 0.070	1.2 \pm 0.070	BLD	1.2 \pm 0.17	BLD	0.49 \pm 0.12	BLD	0.31 \pm 0.050
NB 5	1.3 \pm 0.19	BLD	1.9 \pm 0.39	3.1 \pm 0.58	0.85 \pm 0.060	0.90 \pm 0.090	0.95 \pm 0.10	0.61 \pm 0.20	1.05 \pm 0.22	0.99 \pm 0.14
TZ 1	BLD	BLD	1.3 \pm 0.06	1.3 \pm 0.06	BLD	BLD	BLD	BLD	BLD	0.76 \pm 0.47
TZ 2	BLD	BLD	BLD	BLD	4.3 \pm 0.15	BLD	BLD	2.5 \pm 0.10	4.4 \pm 0.97	BLD
TZ 3	BLD	4.6 \pm 0.44	BLD	4.6 \pm 0.44	BLD	BLD	BLD	BLD	BLD	BLD
TZ 4	1.3 \pm 0.22	19 \pm 3.5	1.6 \pm 0.13	22 \pm 39	0.92 \pm 0.10	0.89 \pm 0.06	1.6 \pm 0.16	0.79 \pm 0.02	1.7 \pm 0.22	1.1 \pm 0.08
ZS 1	BLD	17 \pm 0.72	BLD	17 \pm 0.72	BLD	BLD	BLD	BLD	BLD	BLD
ZS 2	0.92 \pm 0.17	1.7 \pm 0.060	39 \pm 1.8	42 \pm 2.0	0.88 \pm 0.060	0.86 \pm 0.060	1.7 \pm 0.13	0.68 \pm 0.080	1.1 \pm 0.21	1.3 \pm 0.10
LS 1	6.6 \pm 0.94	9.6 \pm 0.52	BLD	16 \pm 0.52	1.6 \pm 0.12	1.6 \pm 0.47	BLD	1.1 \pm 0.09	1.4 \pm 0.09	BLD
LS 2	10 \pm 0.24	BLD	7.8 \pm 0.56	17 \pm 0.80	3.1 \pm 0.16	4.6 \pm 0.43	2.6 \pm 0.11	2.8 \pm 0.17	16 \pm 0.93	2.7 \pm 0.10
Average	0.64	1.7	5.5	7.9	1.4	1.3	0.59	0.51	1.0	0.59
Geomean	0.12	0.25	0.65	2.0	0.23	0.21	0.080	0.12	0.080	0.11

BLD, Below detection limit, analyzed as half of MDL.