







**Table 1 Recovery of dioxins from fish samples <sup>a</sup>**

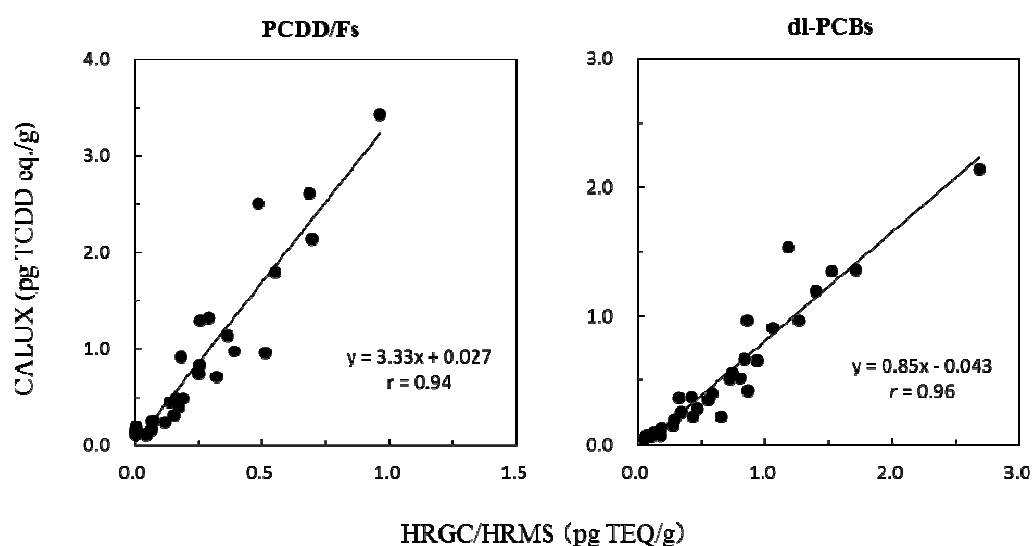
		Spiked Conc. (TCDD eq./g)	Recovery (%) Mean ± SD
Salmon	PCDD/Fs	0.58	95 ± 6
		2.5	84 ± 12
	PCB 126	0.80	95 ± 13
		2.3	86 ± 2
Tuna	PCDD/Fs	0.57	80 ± 5
		2.6	74 ± 9
	PCB 126	0.86	76 ± 13
		2.4	87 ± 12

<sup>a</sup> Fish samples spiked with known quantities of PCDD/Fs or PCB 126 were extracted, cleaned up, and measured by the CALUX assay ( $n = 3$ ).

**Table 2 Reproducibility of the CALUX assay combined with the sample preparation procedure <sup>a</sup>**

		TCDD eq./g					Mean ± SD	CV(%)
		1st	2nd	3rd	4th	5th		
Horse mackerel	PCDD/Fs	0.44	0.52	0.37	0.33	0.32	0.40 ± 0.084	21
	dl-PCBs	0.23	0.27	0.24	0.23	0.30	0.25 ± 0.031	12
Mackerel	PCDD/Fs	0.95	1.32	0.94	1.07	0.85	1.03 ± 0.18	17
	dl-PCBs	0.91	0.90	0.77	0.48	0.86	0.78 ± 0.18	23

<sup>a</sup> The fish contaminated in the natural environment were extracted, cleaned up, and assayed by the CALUX assay in five separate runs on different days.

**Figure 3.** Comparison of the CALUX assay with HRGC/HRMS measurements of fish samples