

SUPPORTING INFORMATION FOR:

**EMERGING HALOGENATED FLAME RETARDANTS AND
HEXABROMOCYCLODODECANES IN FOOD SAMPLES FROM AN
E-WASTE PROCESSING AREA IN VIETNAM**

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2 tables, 2 figures, 4 pages

Tables:

Page S2, Table S1. CAS number and full name of emerging HFRs

Page S2, Table S2. Data used in this study on daily consumption rates for foodstuffs

Figures:

Page S3, Fig. S1. Contributions to dietary exposure in different food types from different Emerging HFRs in Bui Dau, Vietnam

Page S3, Fig. S2. Contributions to dietary exposure in different food types from HBCD isomers in Bui Dau, Vietnam

Table S1 CAS number and full name of emerging HFRs

Full name	Abbreviation	CAS number, Molecular formula
1,2,3,4,5-Pentabromobenzene	PBB _Z	608-90-2, C ₆ HBr ₅
Hexabromobenzene	HBB	87-83-2, C ₆ Br ₆
1,2-Bis(2,4,6-tribromophenoxy)ethane	BTBPE	37853-59-1, C ₁₄ H ₈ Br ₆ O ₂
Bis(2-ethylhexyl)tetrabromophthalate	BEH-TEBP(TBPH)	26040-51-7, C ₂₄ H ₃₄ Br ₄ O ₄
Dechlorane Plus (syn isomer)	<i>syn</i> -DP	135821-03-9, C ₁₈ H ₁₂ Cl ₁₂
Dechlorane Plus (anti isomer)	<i>anti</i> -DP	135821-74-8, C ₁₈ H ₁₂ Cl ₁₂
Decabromodiphenylethane	DBDPE	84852-53-9, C ₁₄ H ₄ Br ₁₀
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate	EH-TBB(TBB)	183658-27-7, C ₁₅ H ₁₉ Br ₄ O ₂

Table S2 Data used in this study on daily consumption rates for foodstuffs ¹

Food type	Daily consumption rate, g/day	
	adult	child
Fish		
freshwater fish	25	20
Poultry & meat		
pork	30	10 ^b
chicken	16	10 ^b
duck	12	10 ^b
Liver		
chicken liver	5.5 ^a	5 ^b
Egg		
chicken egg	30	30
duck egg	30	30
Chicken skin	0.72 ^c	0.45 ^d

a- derived from assumption that liver intake (11 g/day²) is split equally between chicken and duck liver.

b - derived from assumption that poultry & meat intake for children (40 g/day³) is split equally between chicken meat, pork, duck meat and liver, and that liver intake is further split equally between chicken and duck liver.

c - derived from 4.5% (nearly the weight percent of the chicken skin of the whole chicken) of assumption that chicken meat intake.

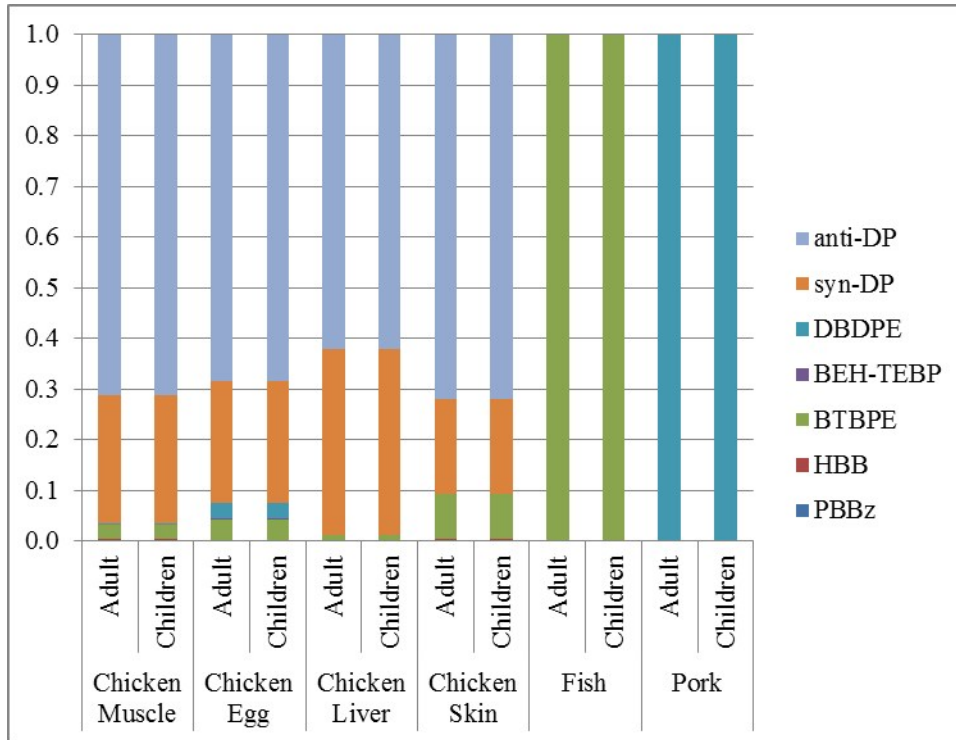


Fig. S1 Contributions to dietary exposure in different food types from different Emerging HFRs in Bui Dau, Vietnam.

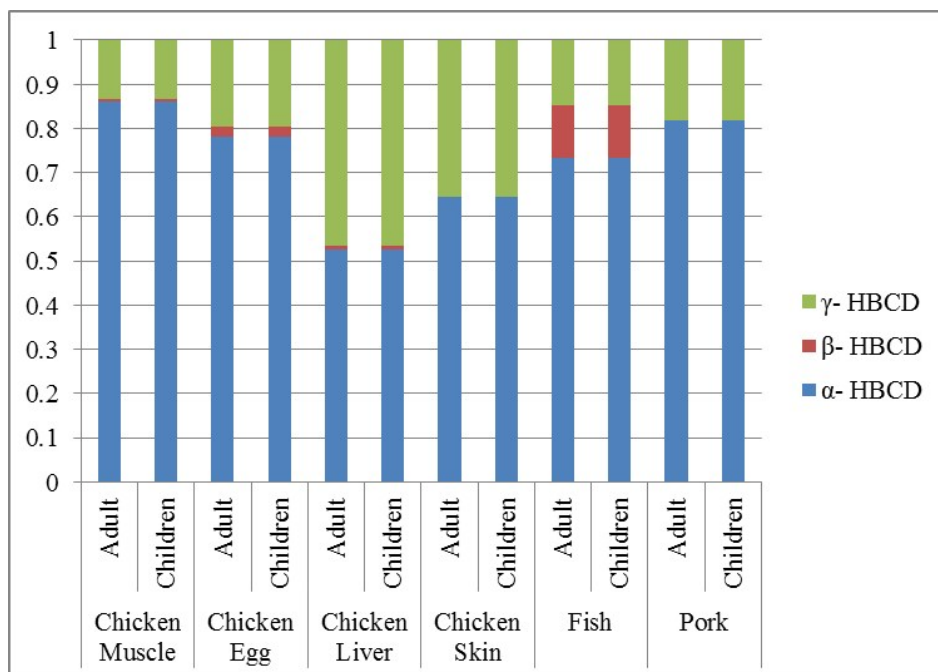


Fig. S2 Contributions to dietary exposure in different food types from HBCD isomers in Bui Dau, Vietnam.

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- 2 G. H. Xing, S. C. Wu and M. H. Wong, *Chemosphere*, 2010, **81**, 1239–44.
- 3 Chinese nutrition society. Dietary Guidelines for pregnant women, lactating women and children aged 0-6 in China. 2007, People's Medical Publishing House Co. Ltd.