

	PCDD/Fs	PCBs	Sum PCDD/Fs and dl-PCBs
GC-HRMS (pg WHO-TEQ/g fat)	41.7	14.7	56.4
CALUX (pg BEQ/g fat)	83.3 (n=51)	20.0 (n=35)	103.3
Ratio CALUX/GC-HRMS	2.0	1.4	1.8

Table 2: Ratio between CALUX and GC-HRMS for the PCDD/F and PCB fraction of a pooled serum sample

Acknowledgements:

This study was commissioned, financed and steered by the Ministry of the Flemish Community (Department of Economics, Science and Innovation; Flemish Agency for Care and Health; and Department of Environment, Nature and Energy).

The authors are grateful to M. Denison and the other members of the University of California-Davis (USA) for generously providing our laboratory with the H1L6.1c3 and the H1L7.5c1 cell lines which were developed with funding from a Superfund Research Program grant (ES04699) from the National Institute of Environmental Health Sciences. The authors also acknowledge K. Servaes, B. Van den Bosch and M. Wevers for the GC-HRMS analysis (VITO, Unit Environmental Analysis and Technology, Mol, Belgium).

References:

- Schroijen C, Van Wouwe N, Sanctorum H, Goeyens L, Baeyens W. (2006); *Organohalogen Compounds* 68: 2511-2514
- Denison MS, He G, Baston DS, Tsutsumi T. (2008); *Organohalogen Compounds* 70: 772-775
- He G, Tsutsumi T, Zhao B, Baston DS, Zhao J, Heath-Pagliuso S, Denison MS. (2011) *Toxicological Sciences* (submitted)
- Windal I, Van Wouwe N, Eppe G, Xhrouet C, Debacker V, Baeyens W, De Pauw E, Goeyens L. (2005); *Environ. Sci. Technol.* 39: 1741-1748
- Elskens M, Baston DS, Stumpf C, Haedrich J, Keupers I, Croes K, Denison MS, Baeyens W, Goeyens L. (2011) *Talanta*: in press
- Van Wouwe N, Windal I, Vanderperren H, Eppe G, Xhrouet C, Massart A-C, Debacker N, Sasse A, Baeyens W, De Pauw E, Sartor F, Van Oyen H, Goeyens L. (2004); *Talanta* 63: 1157-1167
- Long M, Andersen MS, Lindh CH, Hagmar L, Giwercman A, Manicardi G-C, Bizzaro D, Spanò M, Toft G, Pedersen HS, Zvyezday V, Bondeand JP, Bonefeld-Jorgensen EC. (2006); *Environmental Health: A Global Access Science Source* 5:14-27
- Koppen G, Covaci A, Van Cleuvenbergen R, Schepens P, Winneke G, Nelen V, Schoeters G. (2001); *Toxicology Letters* 123: 59-67
- Kayama F, Horiguchi H, Oguma E, Fujino J, Yabushita H, Brown D, Clark G. (2002); *Organohalogen compounds* 55: 275-278
- Todaka T, Hirakawa H, Kajiwara J, Hori T, Tobiishi K, Yasutake D, Onozuka D, Sasaki S, Miyashita C, Yoshioka E, Yuasa M, Kishi R, Iida T, Furue M. (2010); *Chemosphere* 78 :185-192
- Wittsiepe J, Fürst P, Schrey P, Lemm F, Kraft M, Eberwein G, Winneke G, Wilhelm G. (2007); *Chemosphere* 67: S286-S294
- Ayotte P, Dewailly E, Lambert GH, Perkins SL, Poon R, Feeley M, Larochelle C, Pereg D. (2005); *Environ Health Perspect.* 113:1318-1324
- Burns JS, Williams PL, Sergeev O, Korrick S, Lee MM, Revich B, Altshul L, Patterson Jr DG, Turner WE, Needham LL, Saharov I, Hauser R. (2009); *Environ. Health Perspect.* 117:1593-1599
- Warner M, Eskenazi B, Patterson Jr DG, Clark G, Turner WE, Bonsignore L, Mocarelli P, Gerthoux PM. (2005); *JEAE* 15: 310-318.