

Conclusions

- MS/MS methods for analysis of PCDD/Fs, PCBs, OCPs, and PBDEs were developed
- GC separations were optimized for MS/MS detection methods
- GC/MS/MS optimized methods were validated.
 - Limits of quantification at level 0.1 – 1 pg/μl were achieved.
 - Linear response over four orders of magnitude was achieved except for some OCPs.
 - The selectivity of methods is better or comparable with a reference HRMS method.
- Cost of GC/MS/MS analysis is significantly lower compared to GC/HRMS
- Developed methods were successfully applied for
 - Human blood, milk and adipose tissue analysis
 - Studies of de novo synthesis and destruction of halogenated POP
 - In vitro study of PCB accumulation in human cells
- List of application is enclosed