Sp-3) [Detection of maximum effective concentration]

figure: Supplementary data-Sp-3a) Ovary[Gradual increment of maturation].

10ppm

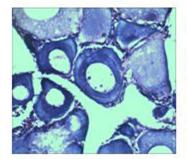
40ppm

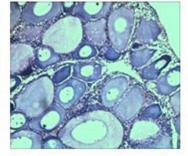
20ppm

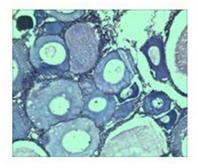
50ppm

80ppm

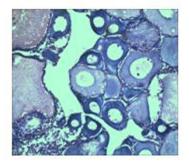
30ppm

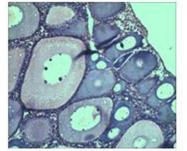


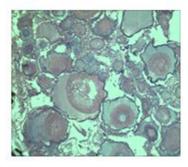




60ppm

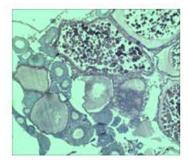




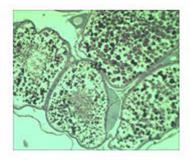


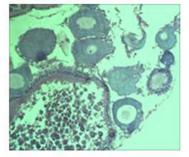
90ppm











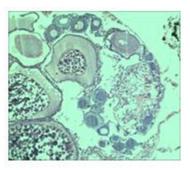
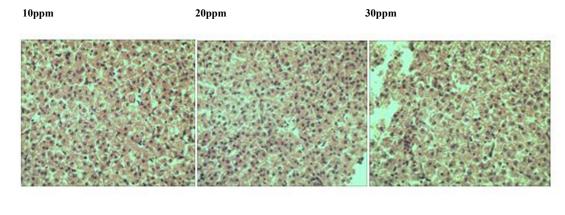


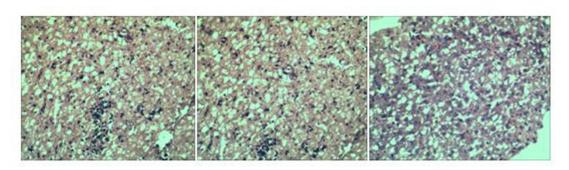
figure: Supplementary data- Sp-3b) Liver [gradual increment of necrosis].



40ppm

50ppm

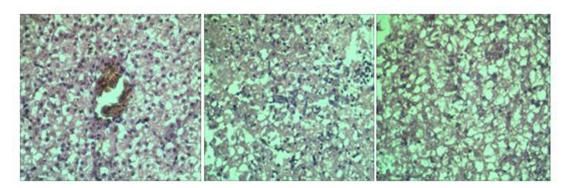
60ppm



70ppm

80ppm

90ppm



100ppm

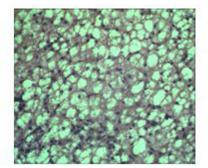
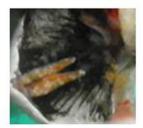


figure: Supplementary data- Sp-3c) Dissection of treated female fishes.

Only fish	Fish+enz+nano	Fish+BPA	Fish+enz+BPA
( Normal ovary)	(Almost normal ovary)	(Complete mature ovary)	(Almost mature ovary)









Fish+conjugate+BPA

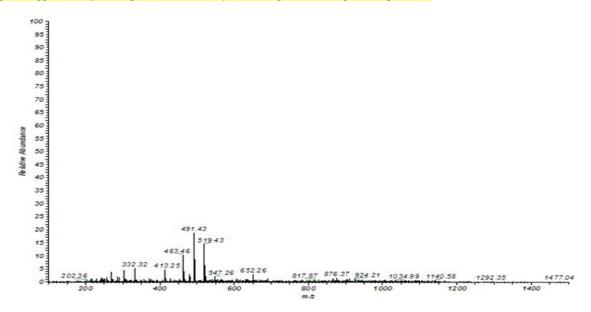
Fingerling size

(Almost normal ovary)





figure: Supplementary data- Sp-3d) ESI-MS of only water sample used for exposure experiment.



## Sp-4) [FPLC of male fish liver sample]

figure: Supplementary data- Sp-4a) BPA+ Fish

## figure: Supplementary data-Sp-4b) BPA+ E+ Fish

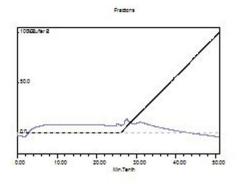


figure: Supplementary data- Sp-4c) Normal fish

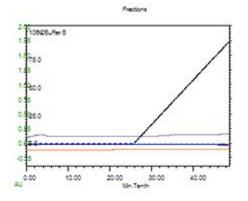
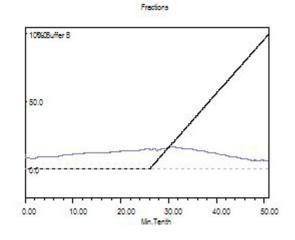


figure: Supplementary data- Sp-4e) Fish + conjugate +BPA



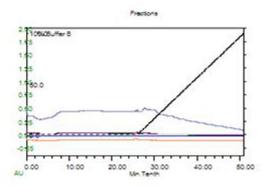


figure: Supplementary data- Sp-4d) Fish + E + Nano

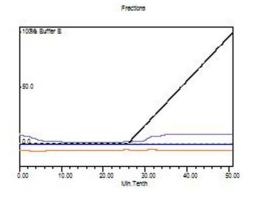


figure: Supplementary data- Sp-4f) SDS-PAGE of differentially treated female fish vitellogenin after getting from FPLC

