

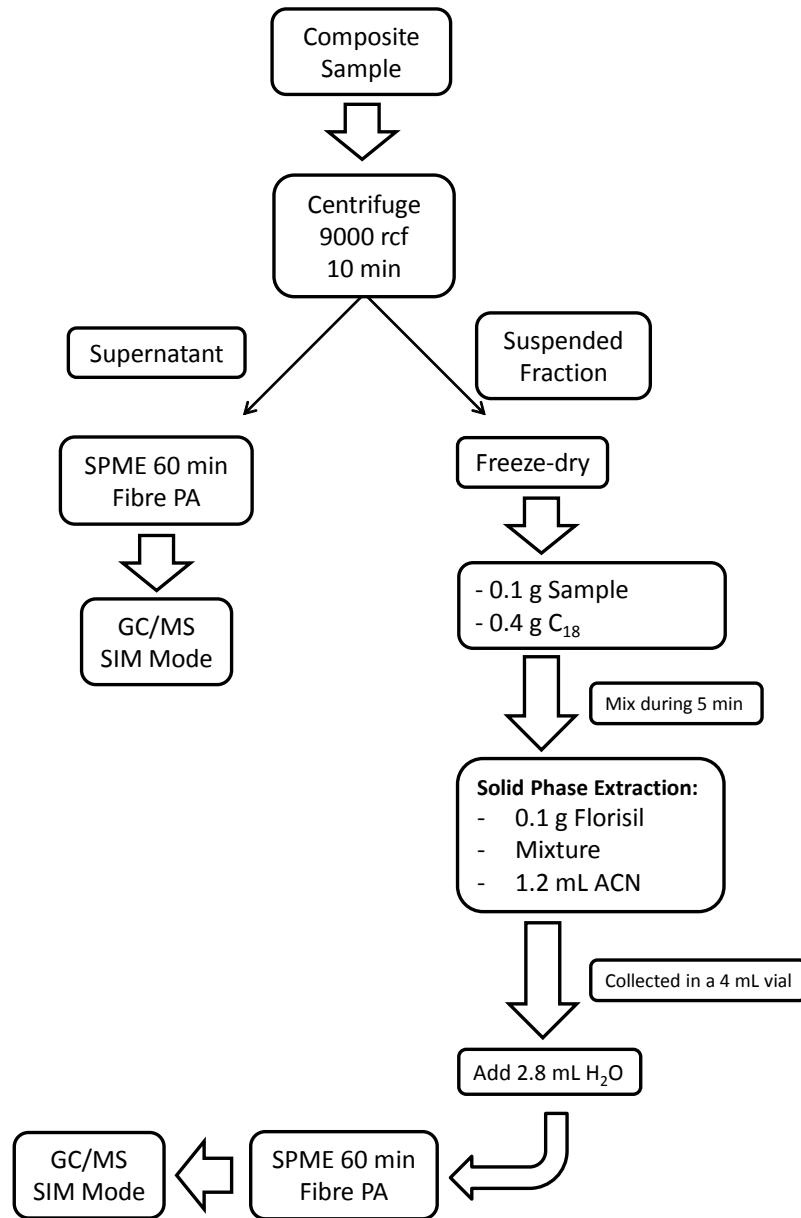
Supplementary material:

Fate of Endocrine Disruptor Compounds in an Anaerobic Membrane BioReactor

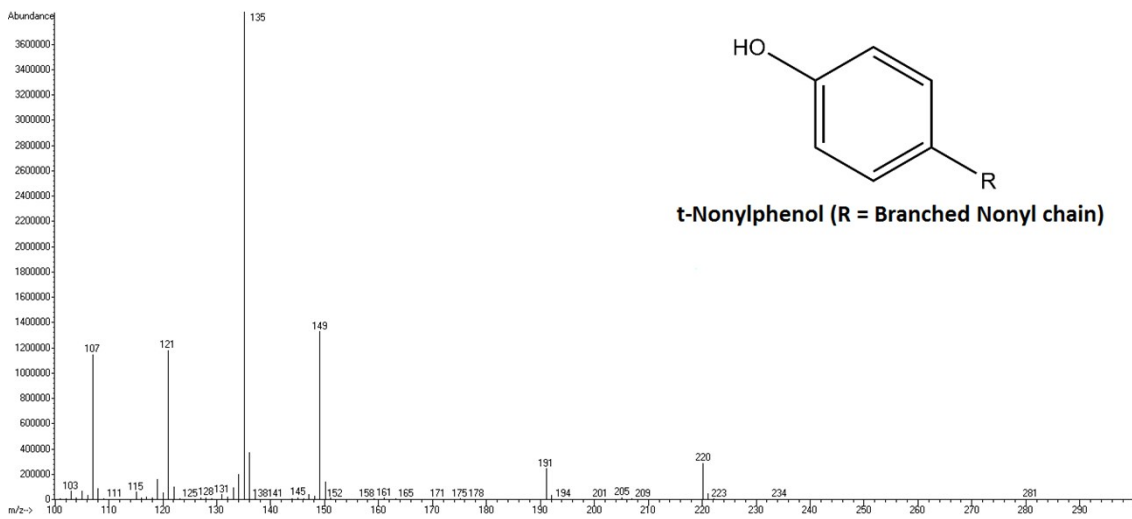
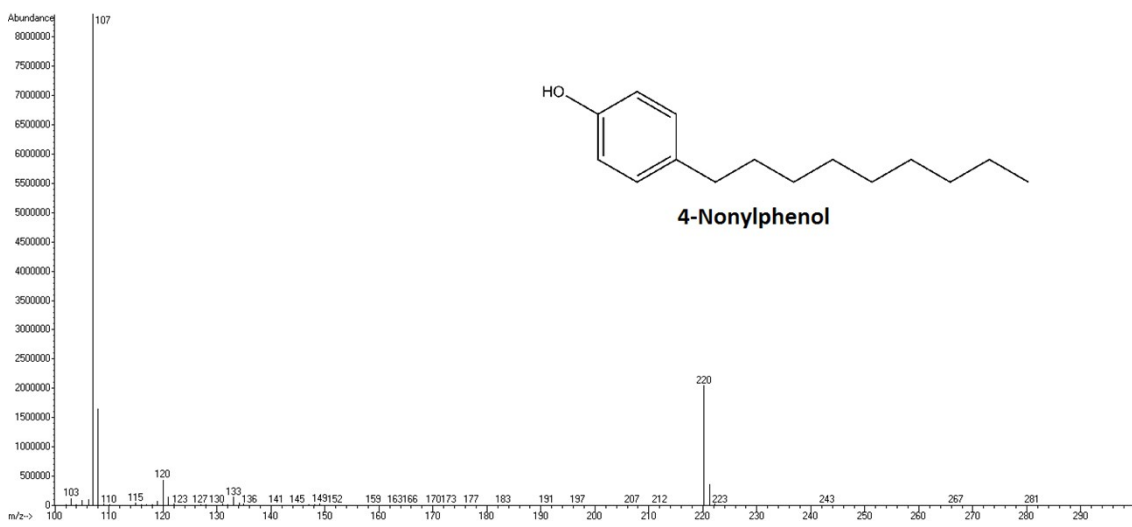
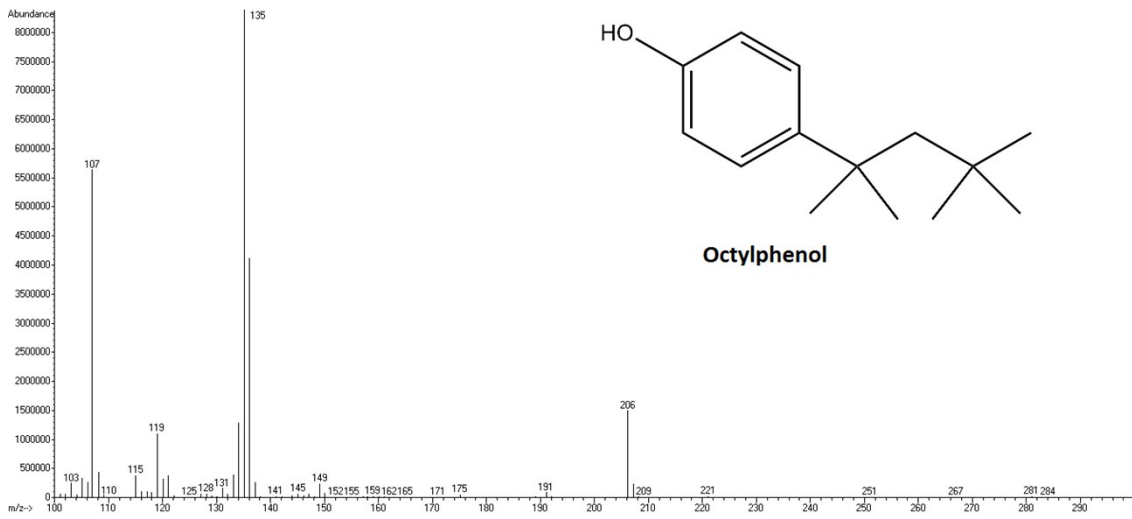
(AnMBR) coupled to an activated sludge reactor.

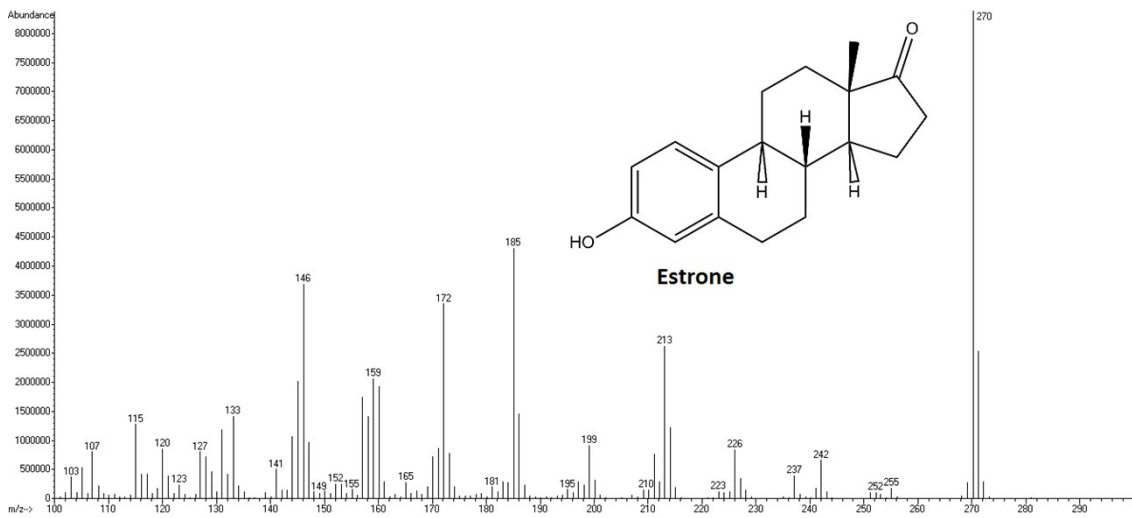
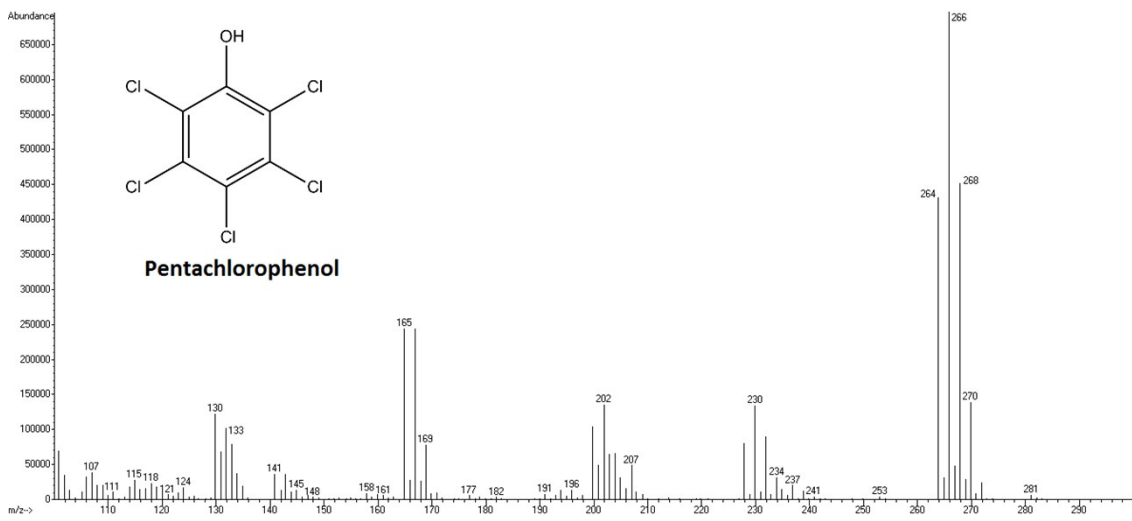
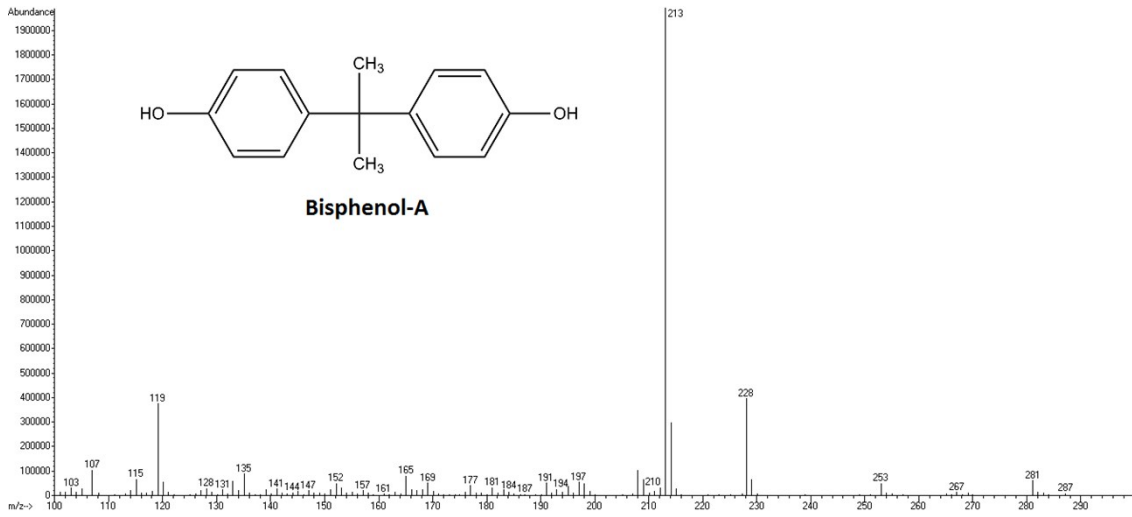
SM1. Water solubility and log K_{ow} of studied compounds.

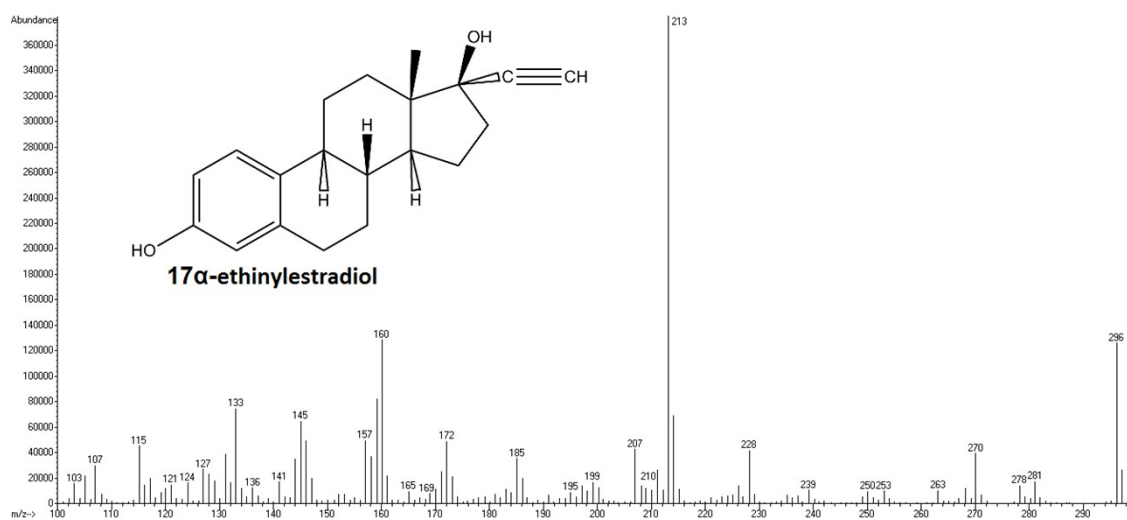
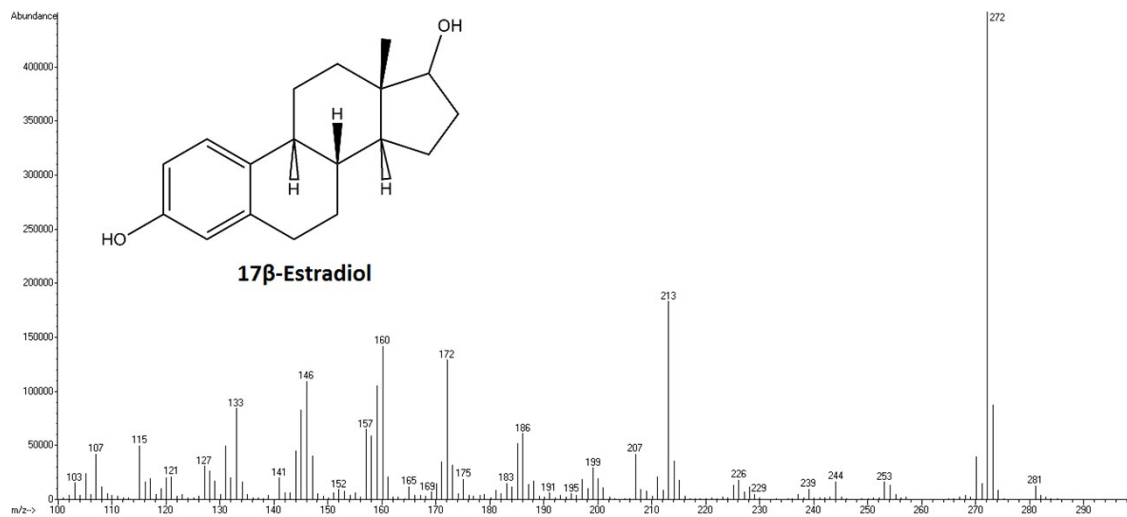
Compound	log K _{ow}	Water Solubility (mg/L; 20 °C)
Octylphenol	4.9	7.0
Technical nonylphenol	5.7	4.9
4-n-nonylphenol	5.8	6.0
Bisphenol-A	3.6	120.0
Pentachlorophenol	4.7	15.0
Estrone	3.6	1.3
17β-estradiol	3.8	1.5
17α-ethinylestradiol	4.0	9.2



SM2. Scheme of the method used for soluble and suspended fractions analysis.







SM3. Mass spectra in scan mode (work range from 100 to 300 m/z) for OP, 4-NP, t-NP, BPA, PCP, E1, E2 and EE2 at 5 µg/L each one.

EDC	LOD (ng/L)	LOQ (ng/kg)	$a \pm s_a$	$b \pm s_b$	r^2	Range (ng/L)	RSD(%)
OP	2	7	$(-18 \pm 4) \times 10^5$	$(11 \pm 5) \times 10^3$	0.990	2 - 6000	18
t-NP	25	83	$(-6 \pm 2) \times 10^6$	$(5.0 \pm 0.2) \times 10^3$	0.990	25 - 50000	18
4-NP	8	27	$(-8 \pm 3) \times 10^6$	$(12.1 \pm 0.5) \times 10^3$	0.995	5 - 10000	20
BPA	500	1667	$(-4 \pm 2) \times 10^5$	$(4.4 \pm 0.2) \times 10^2$	0.990	500 - 50000	16
PCP	600	2000	$(-1 \pm 3) \times 10^6$	$(1.1 \pm 0.1) \times 10^3$	0.991	500 - 50000	17
E1	200	667	$(-20 \pm 16) \times 10^4$	74 ± 9	0.990	200 - 100000	18
E2	300	1000	$(-14 \pm 8) \times 10^4$	44 ± 5	0.991	200 - 100000	13
EE2	300	1000	$(-15 \pm 4) \times 10^4$	68 ± 2	0.993	200 - 100000	14

SM4. Analytical parameters obtained for the target analytes with SPME/GC/MS for the soluble fraction. LOD, calibration line parameters (where “a” is y-intercept and “b” is slope), correlation coefficient (r^2), linear dynamic range and intra-day precision (RSD) are shown.

EDC	LOD (ng/kg)	LOQ (ng/kg)	$a \pm s_a$	$b \pm s_b$	r^2	Range (ng/kg)	RSD(%)
OP	20	67	$(-20 \pm 8) \times 10^5$	$(14 \pm 1) \times 10^3$	0.997	20 - 6000	17
t-NP	110	367	$(-6 \pm 5) \times 10^6$	$(6.4 \pm 0.5) \times 10^3$	0.996	100 - 50000	15
4-NP	30	100	$(-11 \pm 4) \times 10^6$	$(16.0 \pm 0.8) \times 10^3$	0.990	30 - 10000	18
BPA	1000	3333	$(2.6 \pm 0.9) \times 10^6$	$(7 \pm 1) \times 10^3$	0.990	1000 - 50000	12
PCP	1000	3333	$(-5 \pm 4) \times 10^6$	$(1.4 \pm 0.1) \times 10^3$	0.994	1000 - 50000	16
E1	400	1333	$(-5 \pm 3) \times 10^5$	$(2.0 \pm 0.2) \times 10^2$	0.995	400 - 100000	15
E2	600	2000	$(-2 \pm 1) \times 10^5$	96 ± 8	0.996	600 - 100000	18
EE2	600	2000	$(-4 \pm 4) \times 10^5$	$(2.0 \pm 0.3) \times 10^2$	0.992	600 - 100000	19

SM5. Analytical parameters obtained for the target analytes with SPME/GC/MS for the suspended fraction. LOD, calibration line parameters (where “a” is y-intercept and “b” is slope), correlation coefficient (r^2), linear dynamic range and intra-day precision (RSD) are shown.