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One-Pot Preparation of Supramolecularly Functionalized Silver Nanoparticle for Surface Plasmon Resonance Based Dual-Modal Sensing of Phytotoxic Polychlorinated Biphenyl

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FIGURE

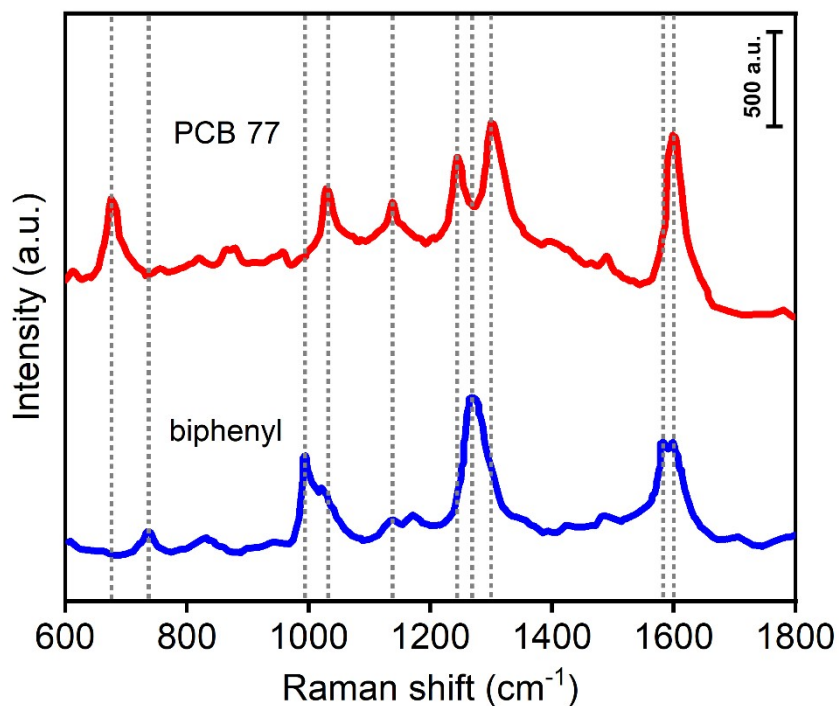


Fig. S1 The SERS spectra of PCB 77 and biphenyl sensed by the β -CD modified Ag NPs.

TABLE

Table S1 The calculation of LOD

Method	σ	Calibration curve	LOD
SP-RLS	0.22	$y = 62.93 + 9.18 x$	0.07 nM
SERS	0.13	$y = 32.72 + 13.21 x$	0.03 pM

σ , the standard deviation above blanks; y , the intensity; x , the concentration.

$$\text{LOD} = 3\sigma/S$$

where S is the slope of the calibration curve. The units of S are (a.u./nM) in SP-RLS curve and (a.u./pM) in SERS curve.