Article

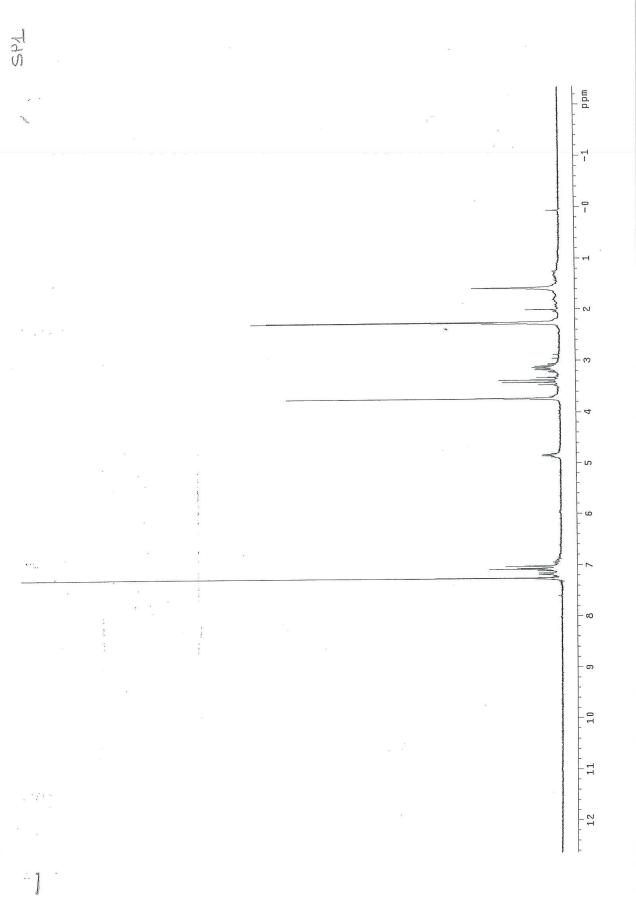
Synthesis and biological evaluation of novel selenyl- and sulfur-L-Dopa derivatives as potential anti-Parkinson compounds

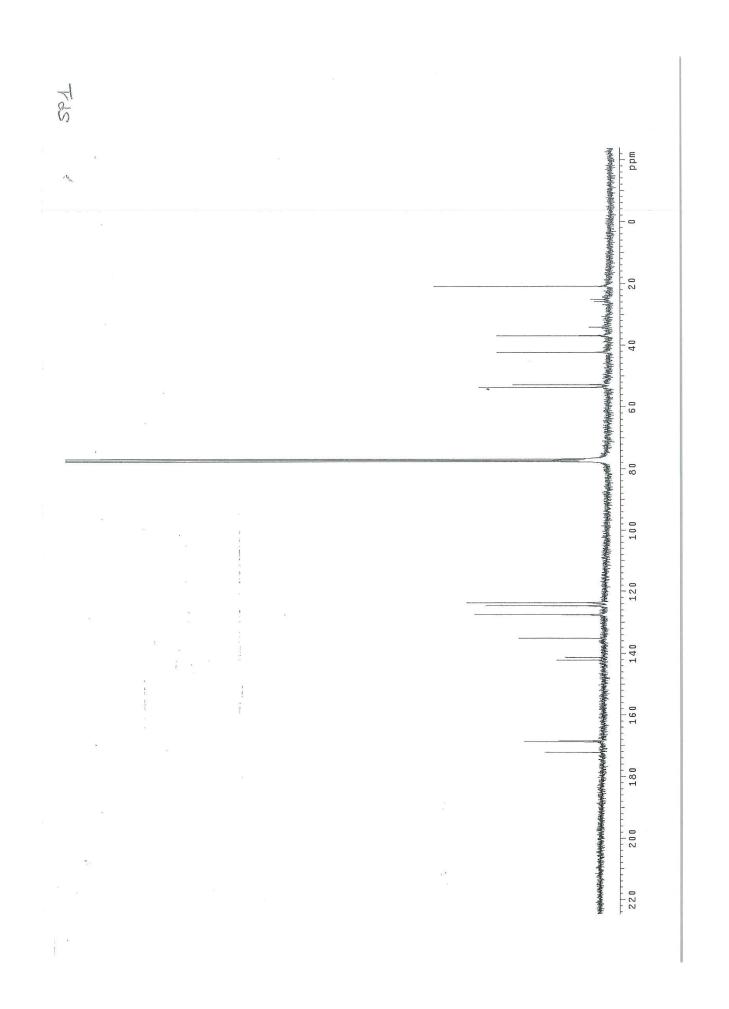
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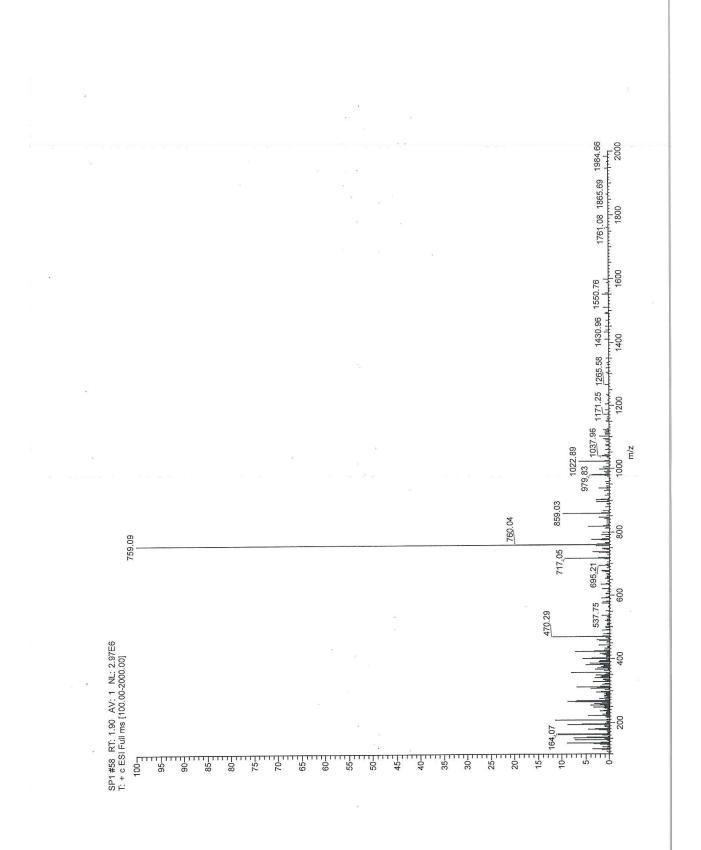
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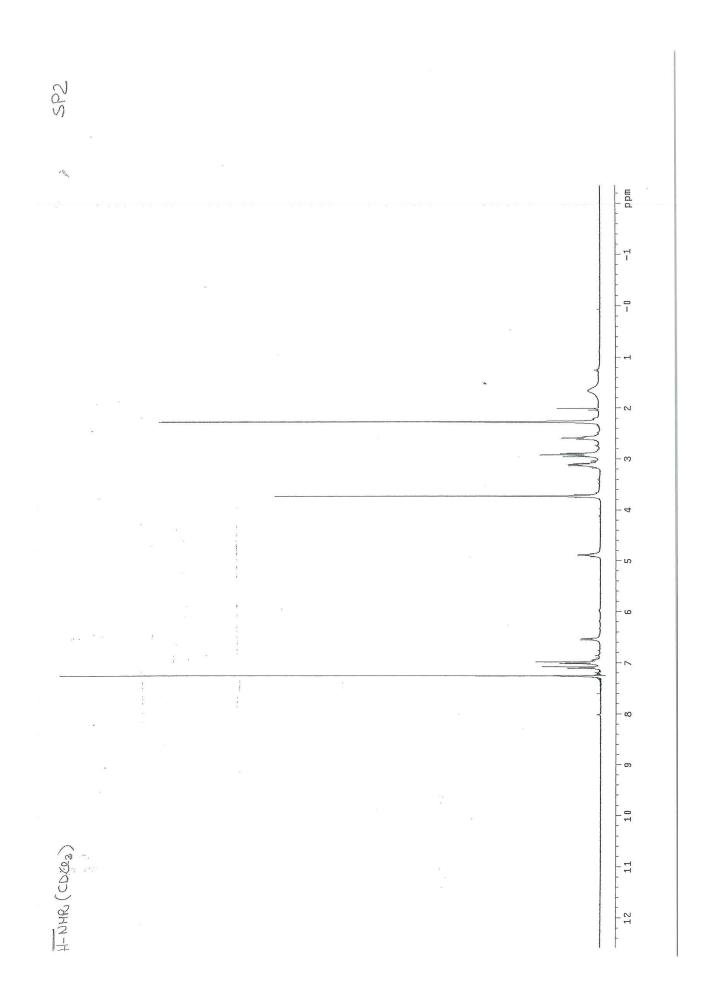
Supplementary material

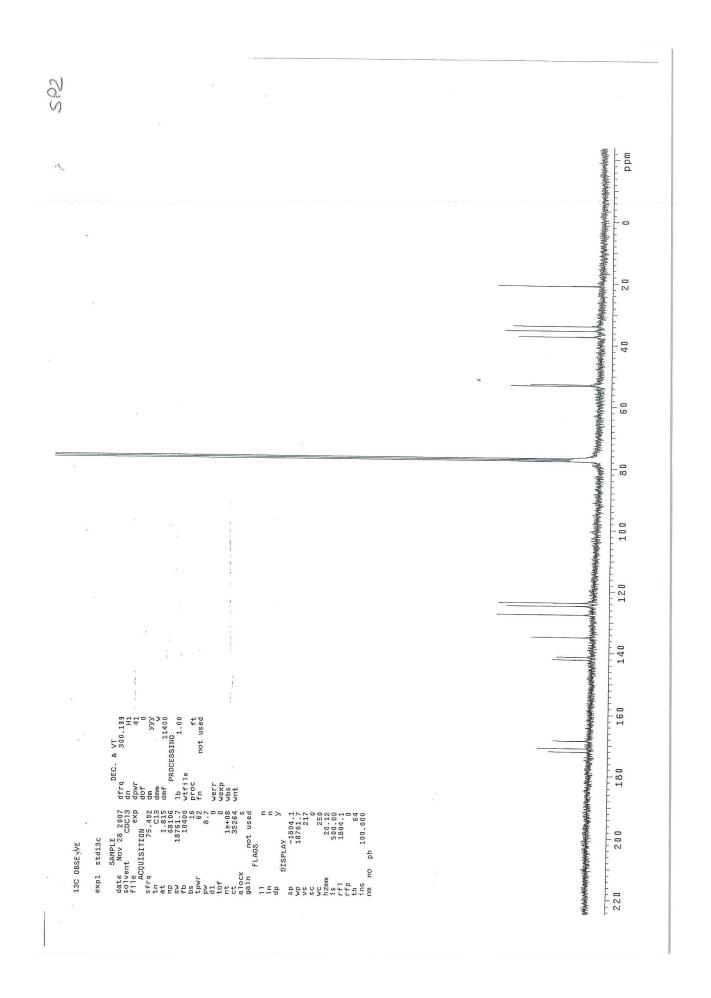
¹H-, ¹³C-NMR and MS spectra of SP1 ¹H-, ¹³C-NMR and MS spectra of SP2 ¹H-, ¹³C-NMR and MS spectra of SP3 ¹H-, ¹³C-NMR and MS spectra of SP4 ¹H-, ¹³C-NMR and MS spectra of SP5 ¹H-, ¹³C-NMR and MS spectra of SP6 MTT assay for SP1–5 Antioxidant test for SP1–5

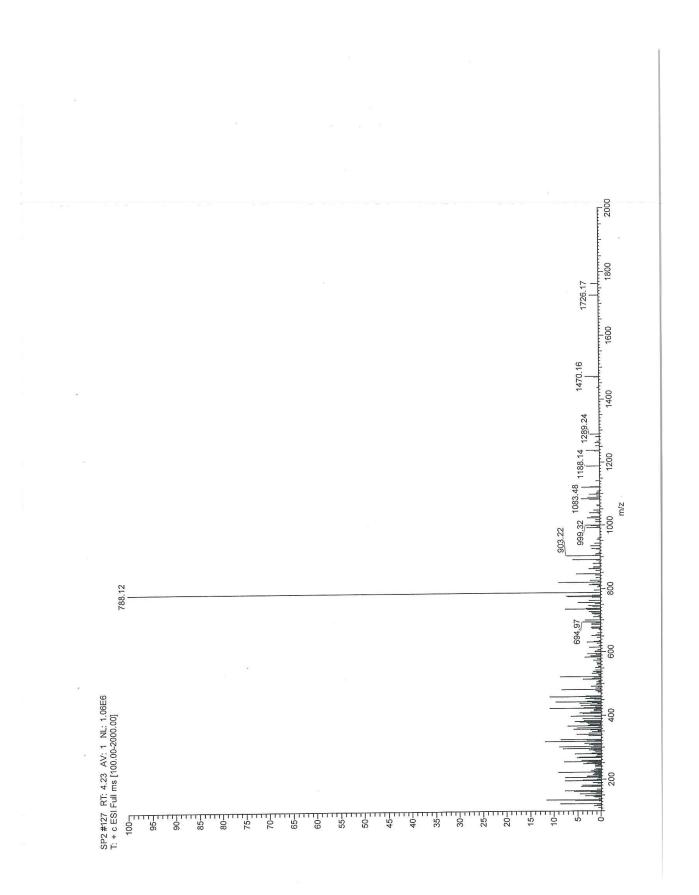


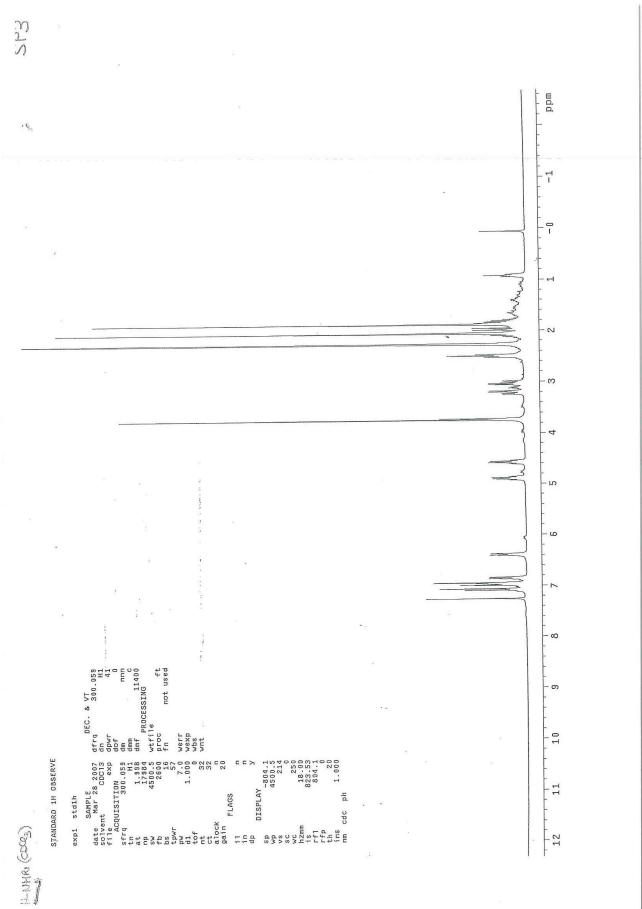


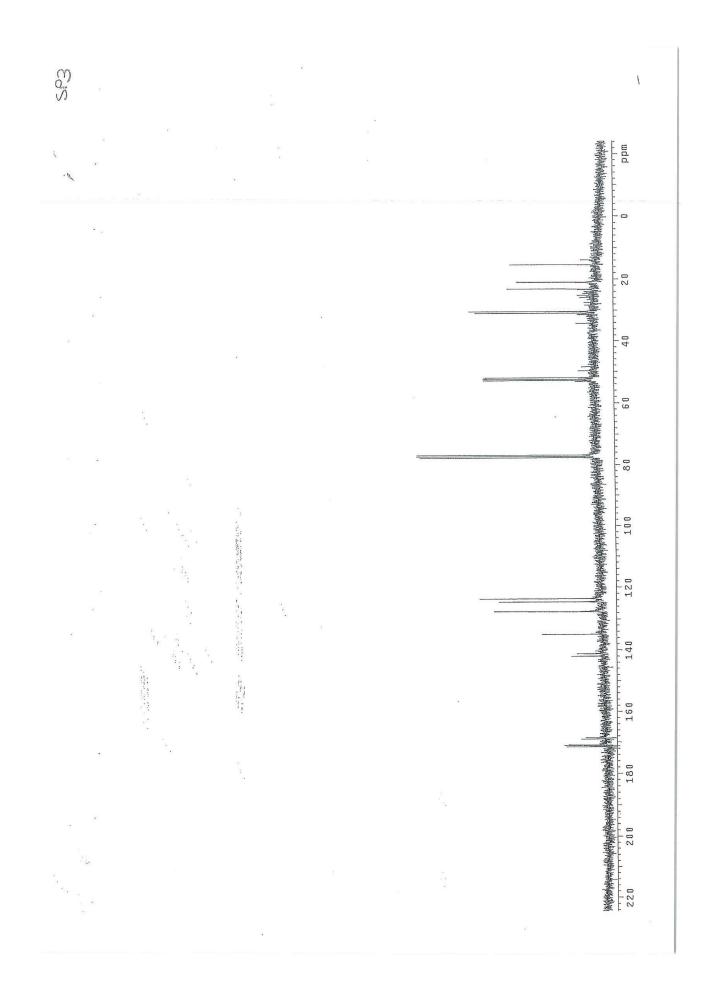


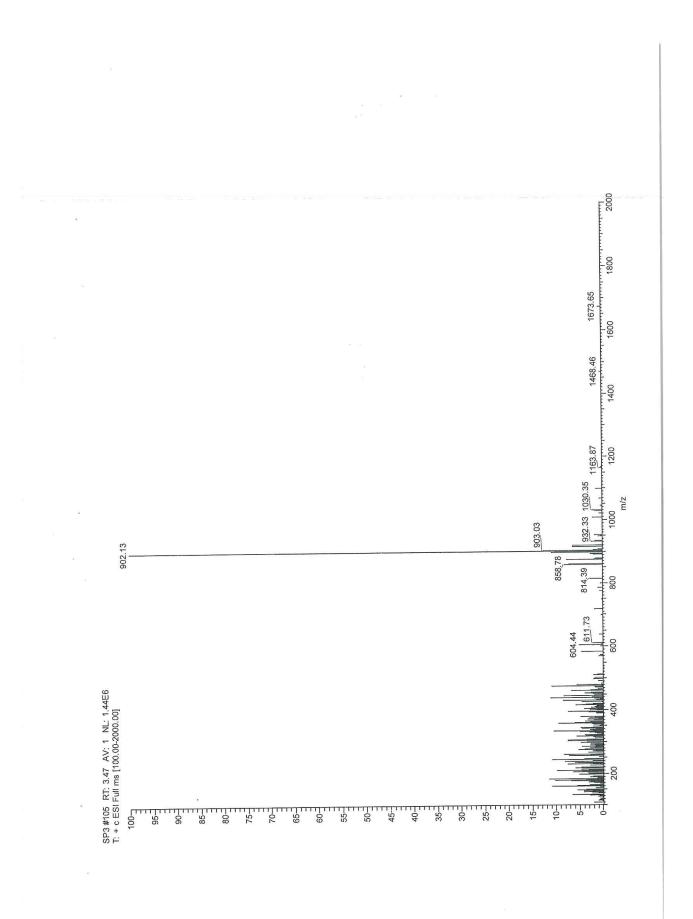


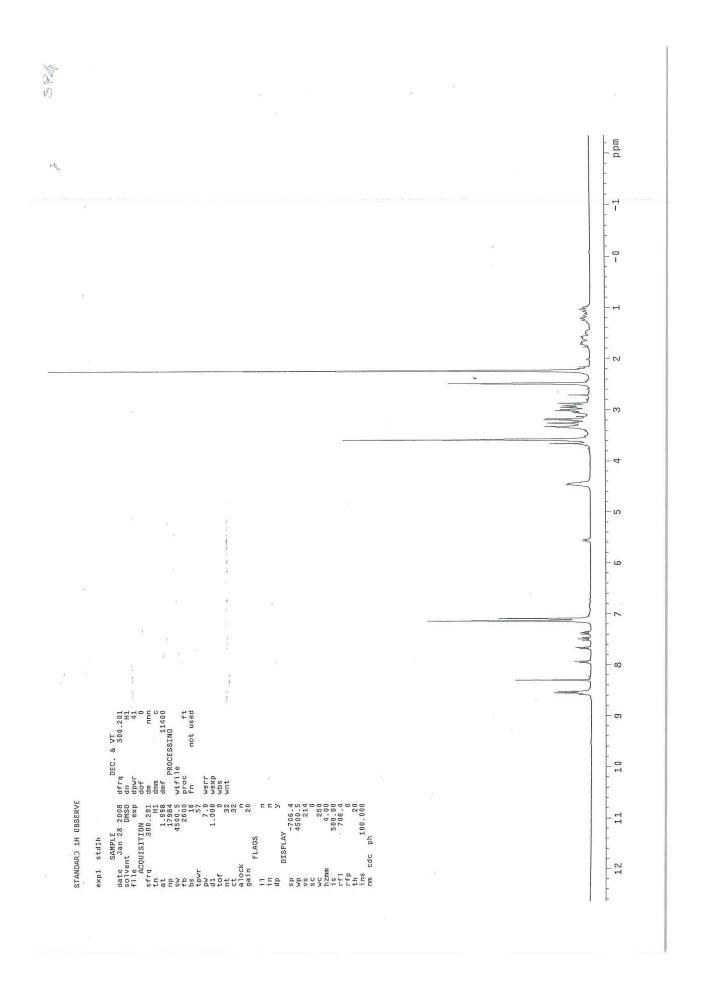


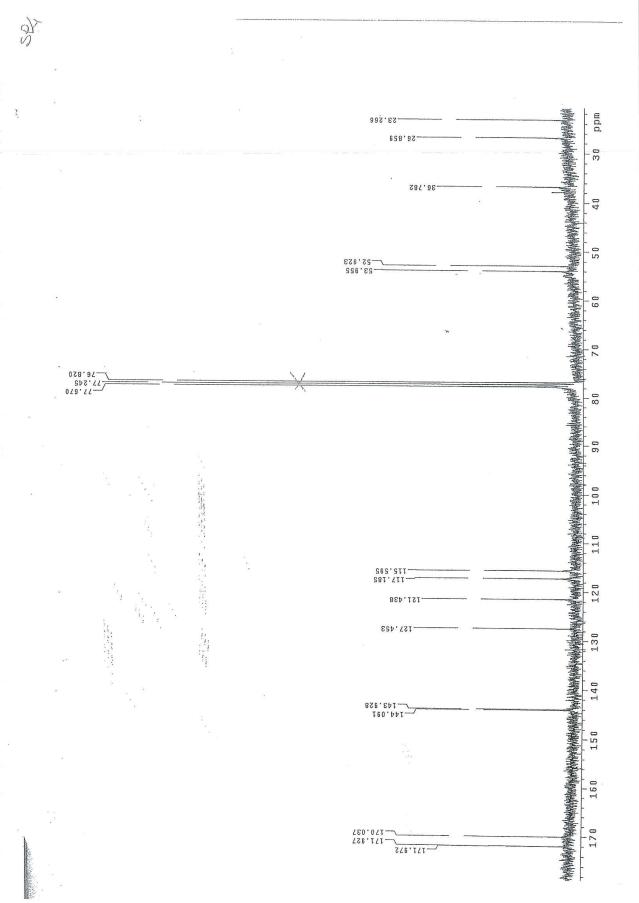


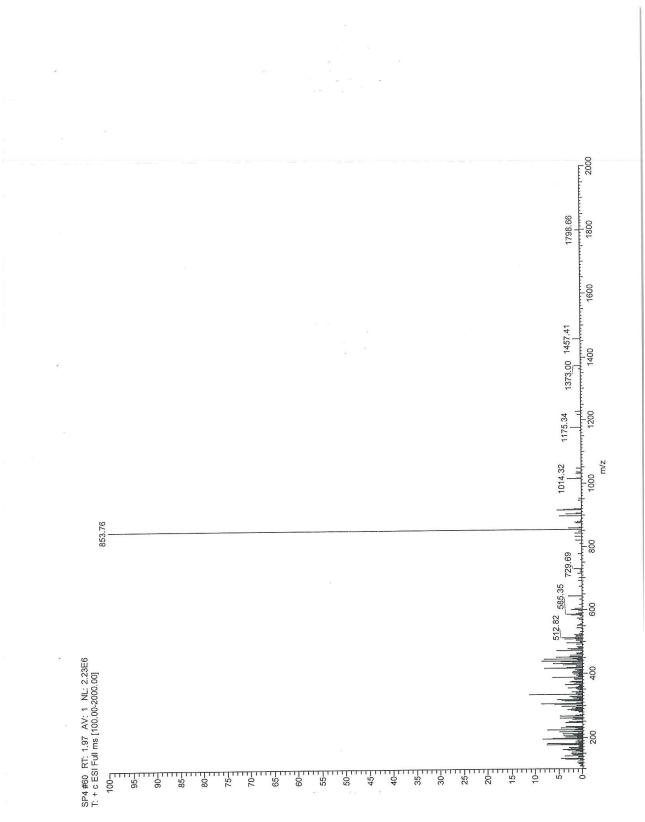


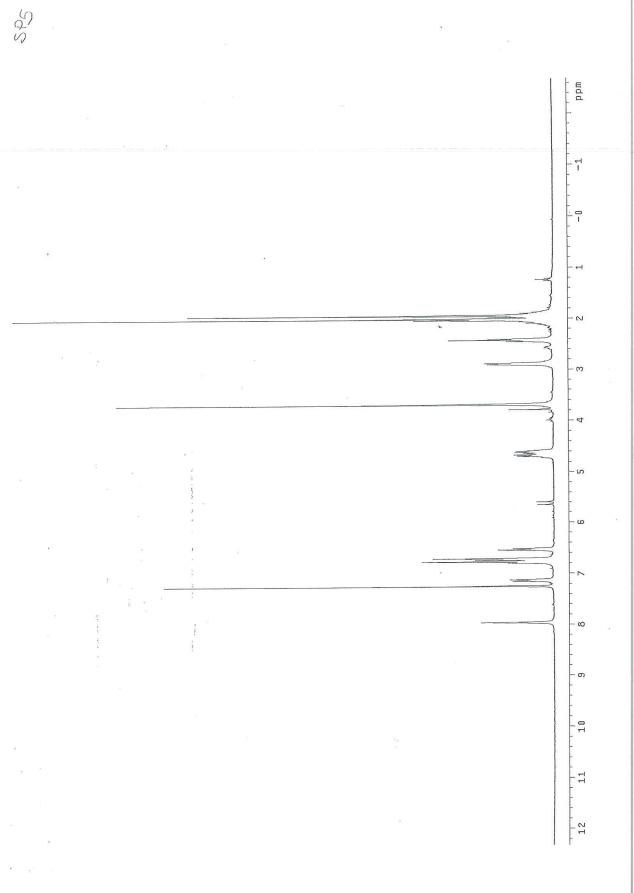


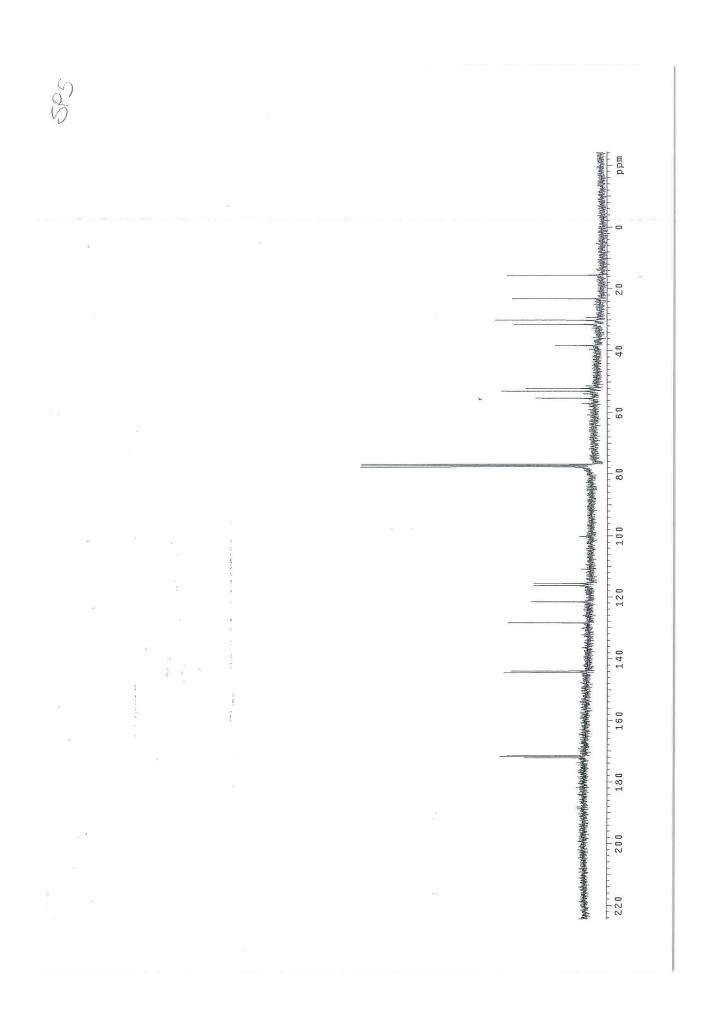


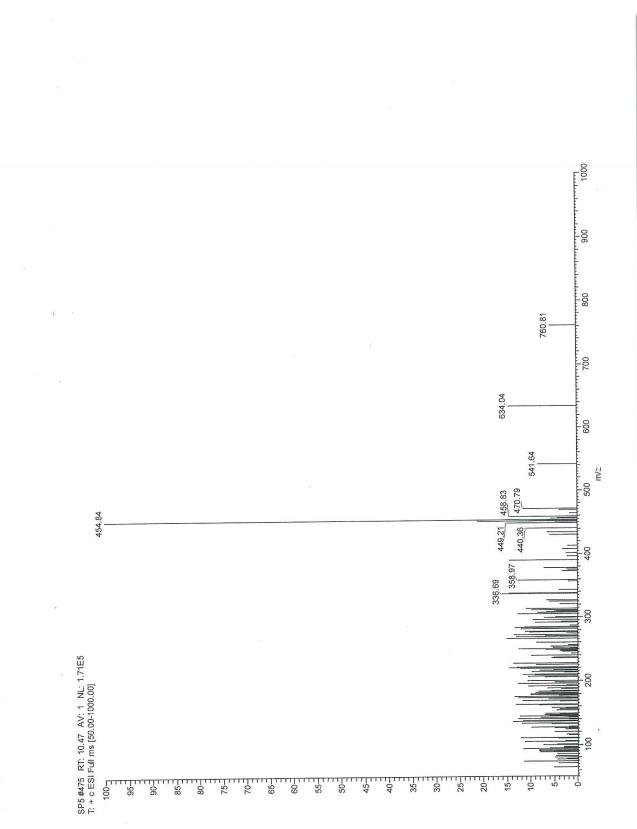


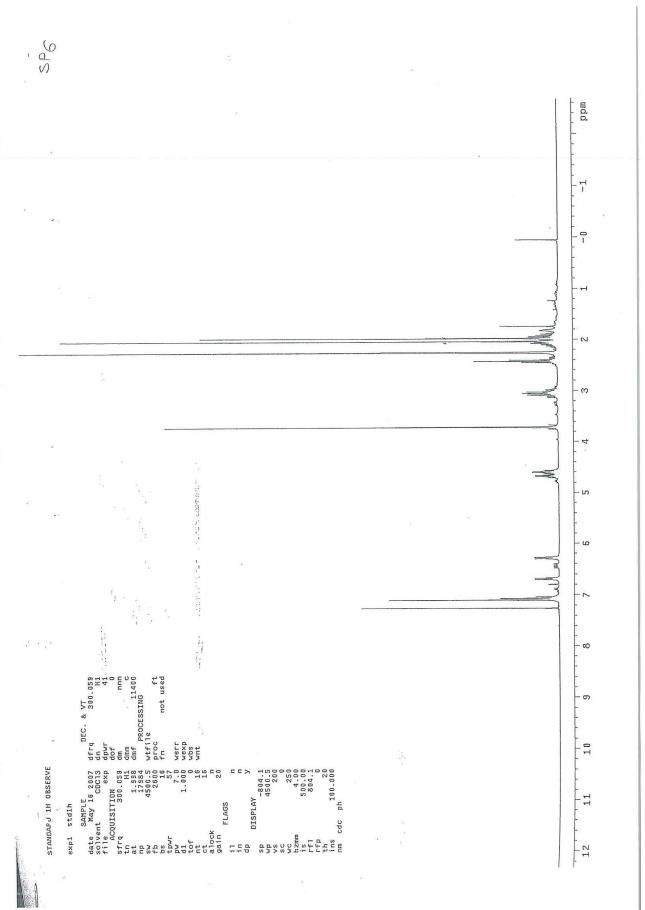


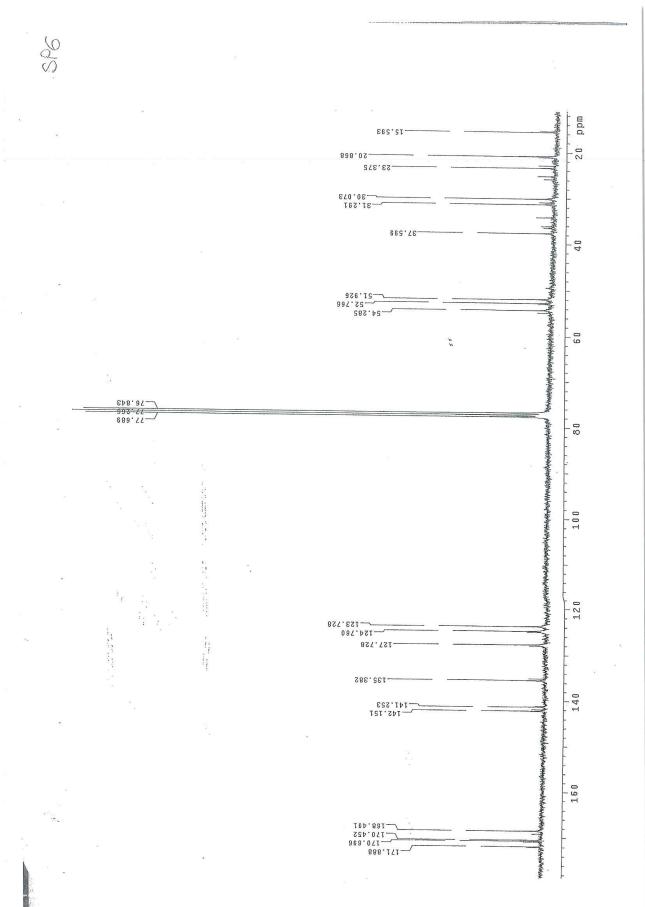


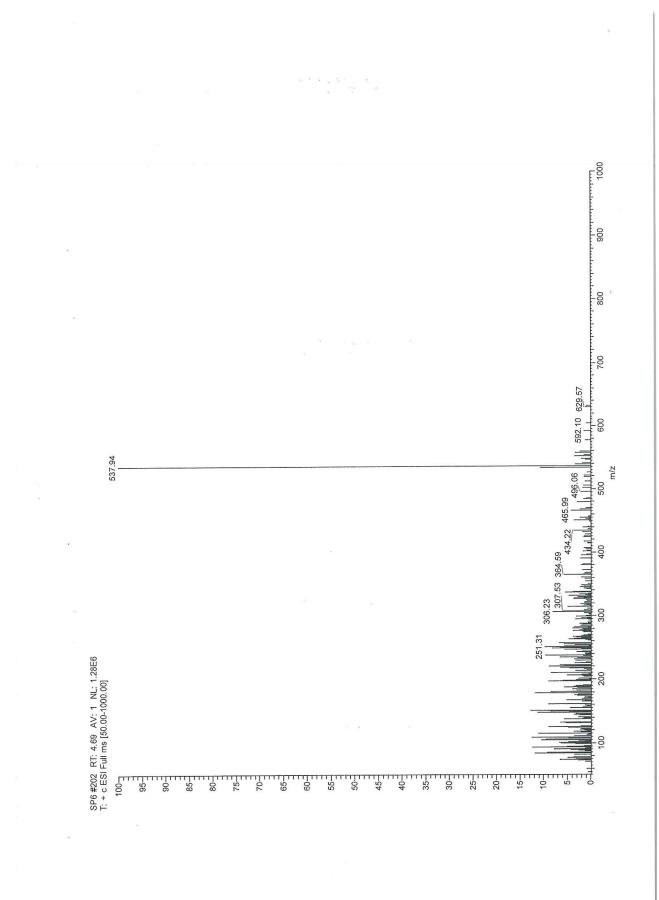












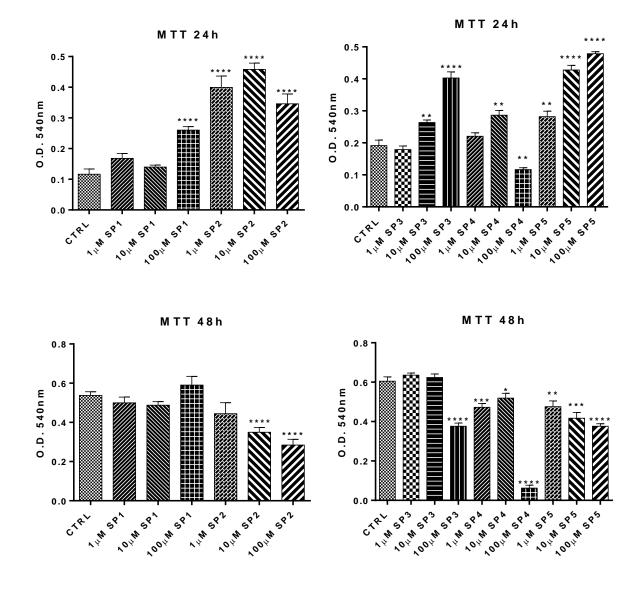


Figure 1S. Dose-response effects of LD and **SP1–5** in undifferentiated SH-SY5Y human neuroblastoma cells. MTT reduction assay in undifferentiated SH-SY5Y human neuroblastoma cells in the presence of LD and **SP1–5**. The cells were incubated for 24 or 48 h with increasing concentrations (1, 10, and 100 μ M) of the compounds. After this period, cell viability was quantified by measuring the MTT reduction. CTRL: control without compounds. The means ± SEM derived from three different experiments (each with n = 16; **** *p* < 0.0001, *** 0.0001 < *p* < 0.0005; ** 0.0005 < *p* < 0.001; * 0.001 < *p* < 0.05; n.s., *p* > 0.05).

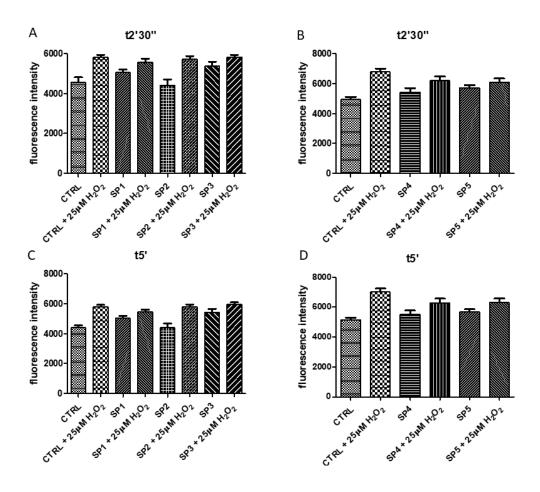


Figure 2S. Measurement of intracellular reactive oxygen species (ROS). The differentiated SY-SH5Y cells incubated with 1µM **SP1–3** (panel A and C) or **SP4–5** (panel B and D) for 24 h, were treated with 25 µM H₂O₂ for 5 min. The fluorescence intensities are reported in this figure at two points ($t_{2'30''}$ and $t_{5'}$) during the time-course. The means ± SEM were derived from two different experiments (each with n = 8; n.s., p > 0.05).