## **Supporting Information**

Rec. Nat. Prod. X.X (2021) XX-XX

## Antimicrobial, Cytotoxic, Antiviral Effects, and Spectroscopic Characterization of Metabolites Produced by Fusarium oxysporum YP9B

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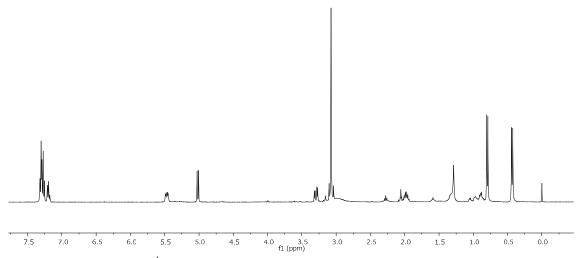


Figure S1: <sup>1</sup>H NMR (400 MHz, Acetone-d<sub>6</sub>) Spectrum of Compound 1

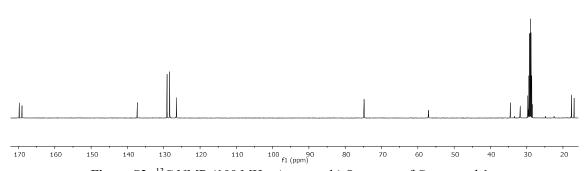


Figure S2: <sup>13</sup>C NMR (100 MHz, Acetone-d<sub>6</sub>) Spectrum of Compound 1

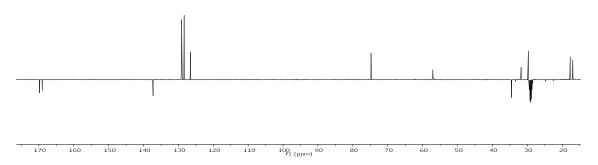


Figure S3: APT NMR (100 MHz, Acetone-d<sub>6</sub>) Spectrum of Compound 1

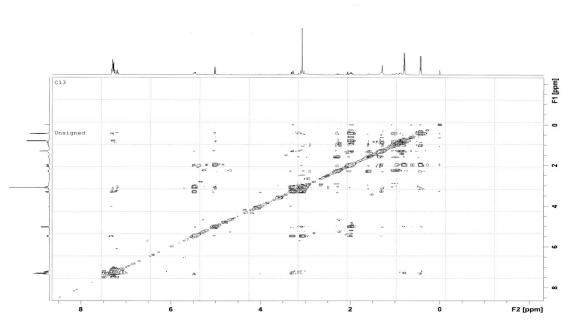


Figure S4: COSY NMR Spectrum of Compound 1

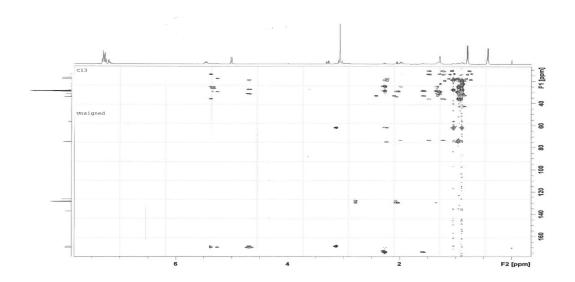


Figure S5: HMBC NMR Spectrum of Compound 1

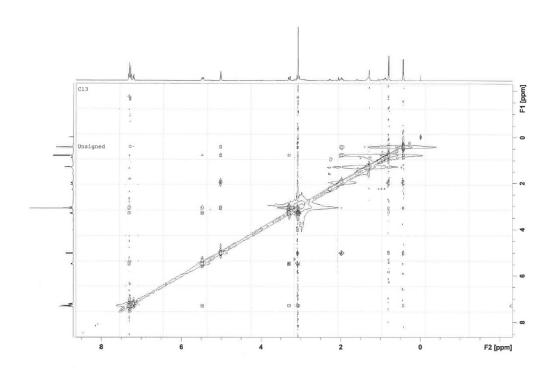


Figure S6: TOCSY NMR Spectrum of Compound 1

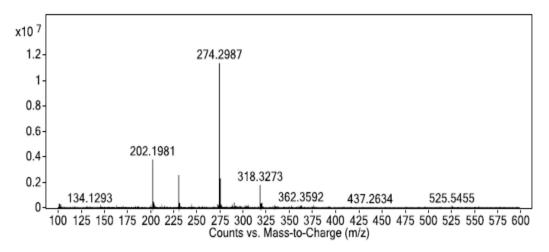


Figure S7: LC-QTOF MS Spectrum of Compound 1

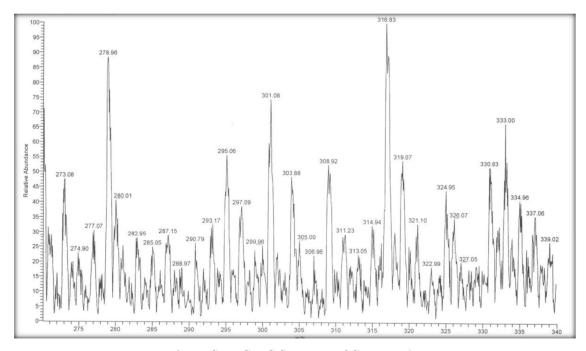


Figure S8: LC-MS Spectrum of Compound 1

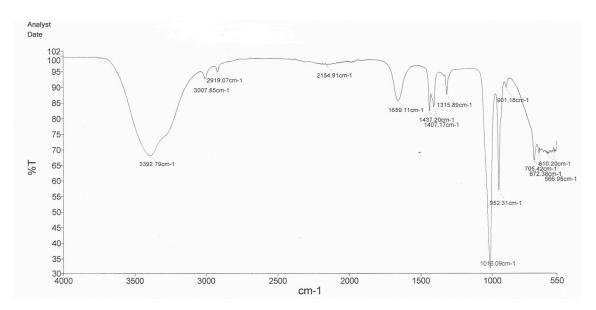


Figure S9: FT-IR Spectrum of Compound 1

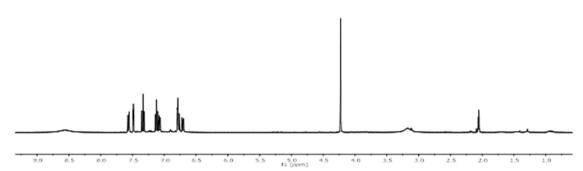


Figure S10: <sup>1</sup>H NMR (400 MHz, Acetone-d<sub>6</sub>) Spectrum of Compound 2

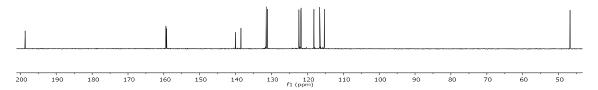


Figure S11: <sup>13</sup>C NMR (100 MHz, Acetone-d<sub>6</sub>) Spectrum of Compound 2

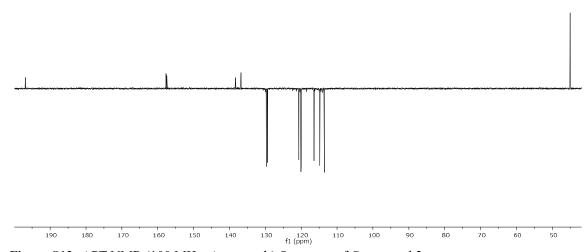


Figure S12: APT NMR (100 MHz, Acetone-d<sub>6</sub>) Spectrum of Compound 2

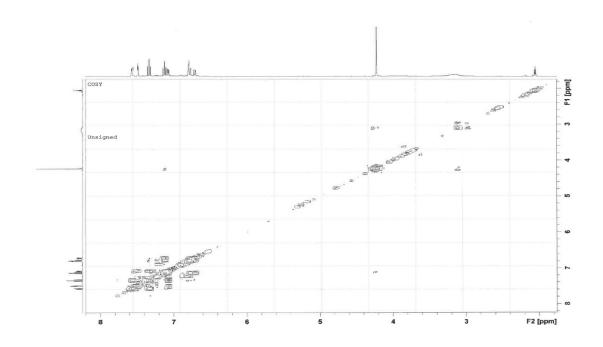


Figure S13: COSY NMR Spectrum of Compound 2

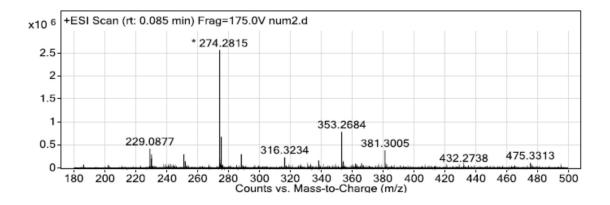


Figure S14: LC-QTOF MS Spectrum of Compound 2

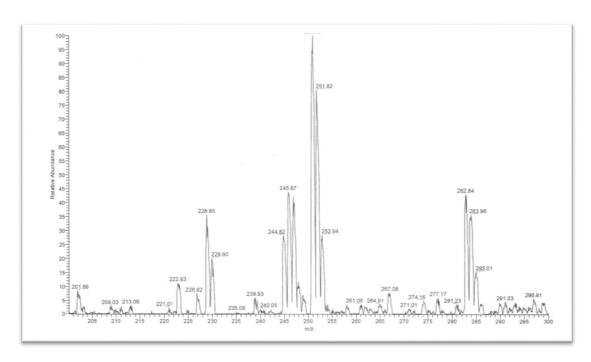


Figure S15: LC-MS Spectrum of Compound 2

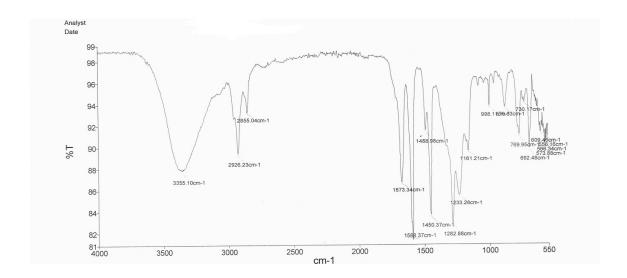


Figure S16: FT-IR Spectrum of Compound 2

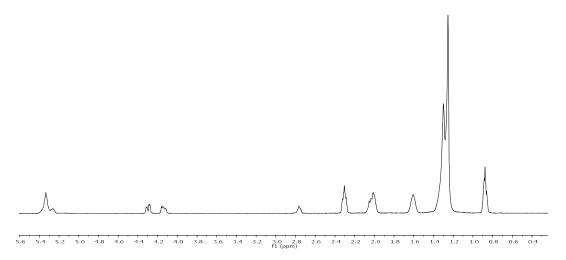
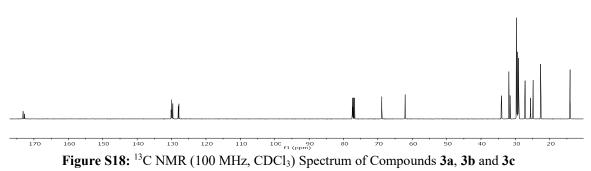


Figure S17: <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) Spectrum of Compounds 3a, 3b and 3c



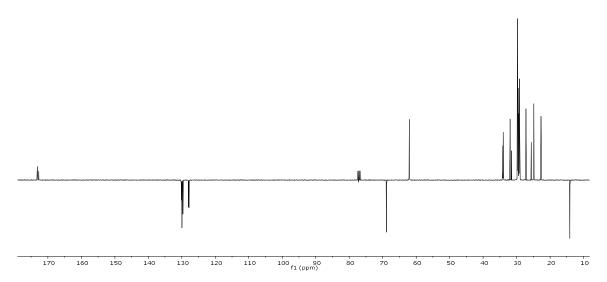


Figure S19: APT NMR (100 MHz, CDCl<sub>3</sub>) Spectrum of Compounds 3a, 3b and 3c

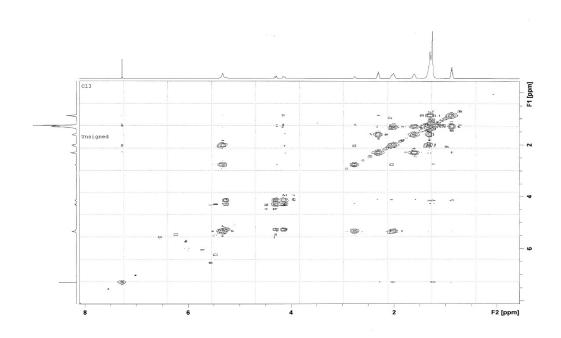


Figure S20: COSY NMR Spectrum of Compounds 3a, 3b and 3c

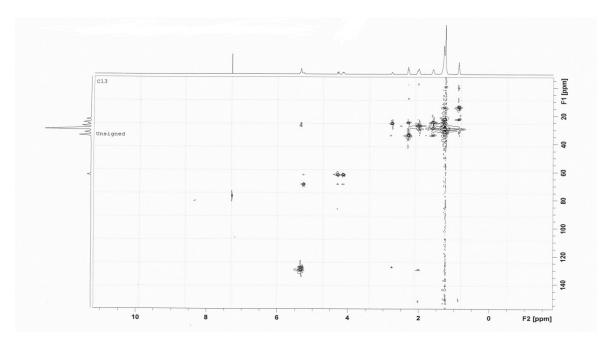


Figure S21: HMBC NMR Spectrum of Compounds 3a, 3b and 3c

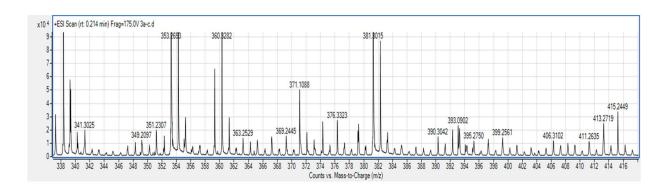


Figure S22: LC-QTOF MS Spectrum of Compound 3a, 3b and 3c

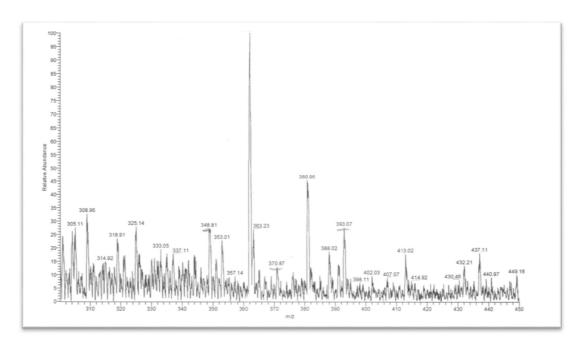


Figure S23: LC-MS Spectrum of Compounds 3a, 3b and 3c

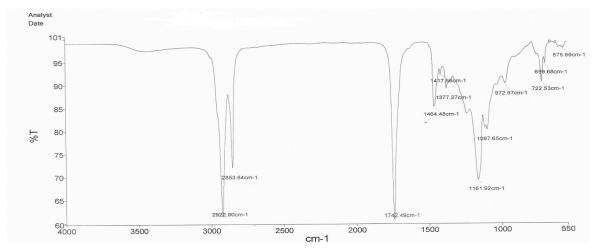


Figure S24: FT-IR Spectrum of Compounds 3a, 3b and 3c

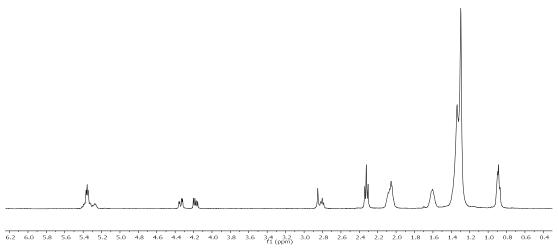


Figure S25: <sup>1</sup>H NMR (400 MHz, Acetone-d<sub>6</sub>) Spectrum of Compounds 4a and 4b

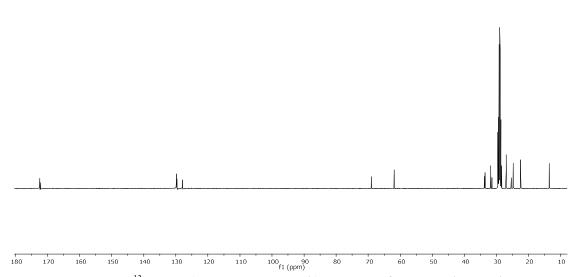


Figure S26: <sup>13</sup>C NMR (100 MHz, Acetone-d<sub>6</sub>) Spectrum of Compounds 4a and 4b

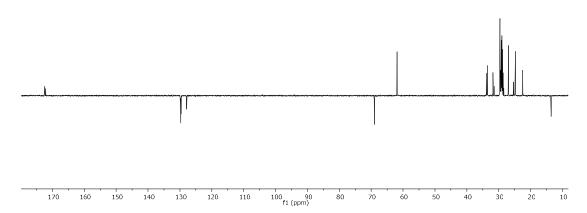


Figure S27: APT NMR (100 MHz, Acetone-d<sub>6</sub>) Spectrum of Compounds 4a and 4b

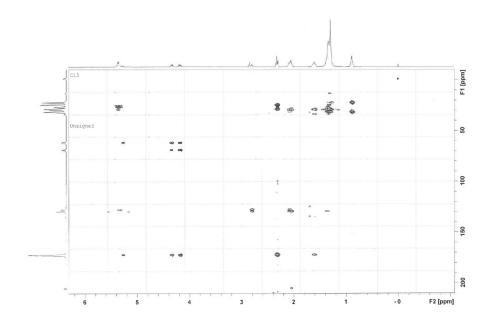


Figure S28: HMBC NMR Spectrum of Compounds 4a and 4b

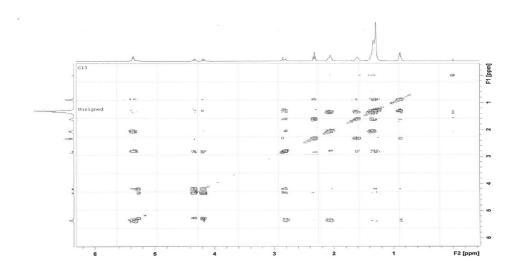


Figure S29: TOCSY NMR Spectrum of Compounds 4a and 4b

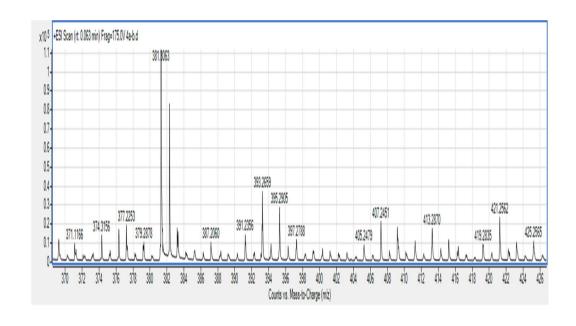


Figure S30: LC-QTOF MS Spectrum of Compound 4a and 4b

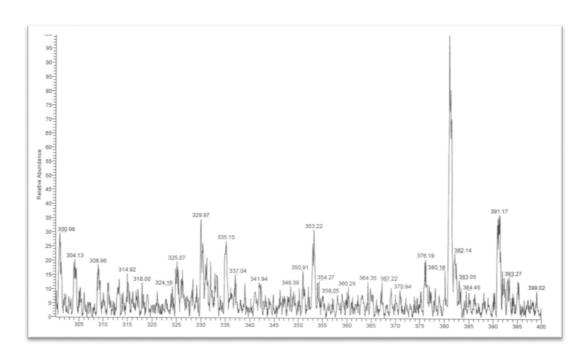


Figure S31: LC-MS Spectrum of Compounds 4a and 4b

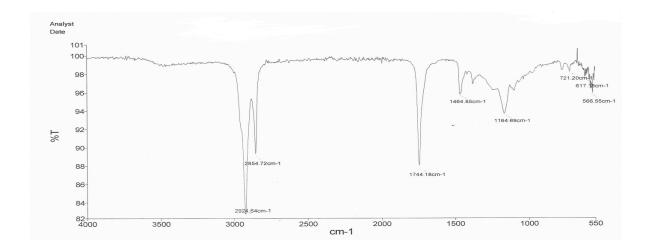
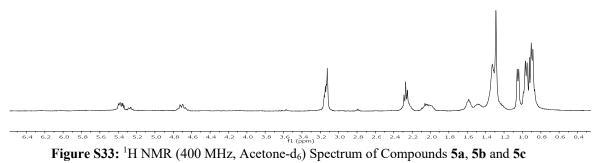


Figure S32: FT-IR Spectrum of Compounds 4a and 4b



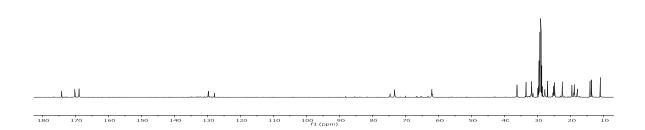


Figure S34: <sup>13</sup>C NMR (100 MHz, Acetone-d<sub>6</sub>) Spectrum of Compounds 5a, 5b and 5c

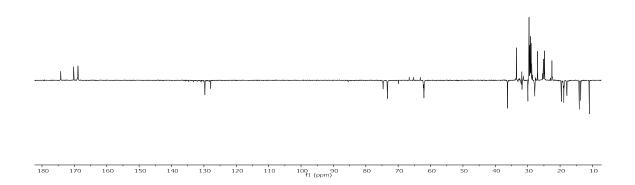


Figure S35: APT NMR (100 MHz, Acetone- $d_6$ ) Spectrum of Compounds 5a, 5b and 5c

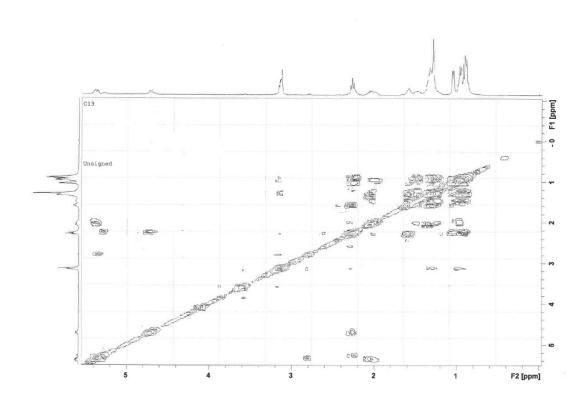


Figure S36: COSY NMR Spectrum of Compounds 5a, 5b and 5c

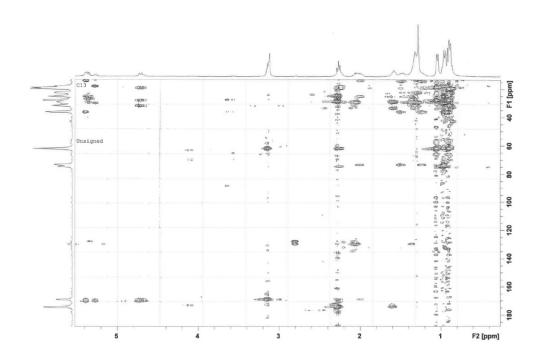


Figure S37: HMBC NMR Spectrum of Compounds 5a, 5b and 5c

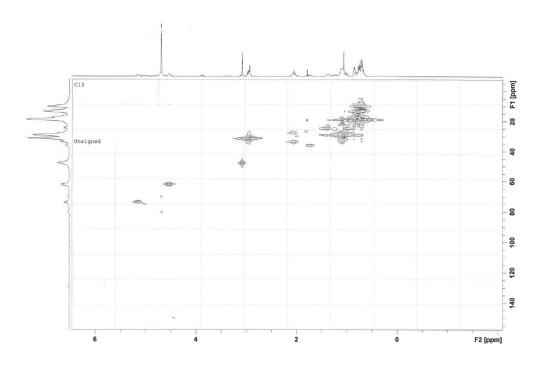


Figure S38: HSQC NMR Spectrum of Compounds 5a, 5b and 5c

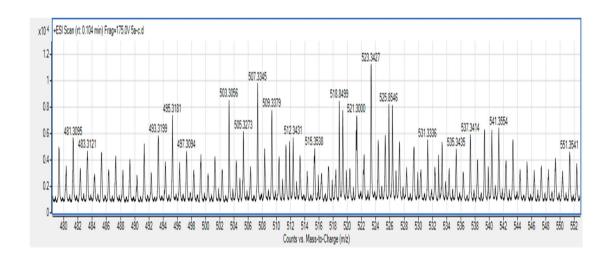


Figure S39: LC-QTOF MS Spectrum of Compound 5a, 5b and 5c

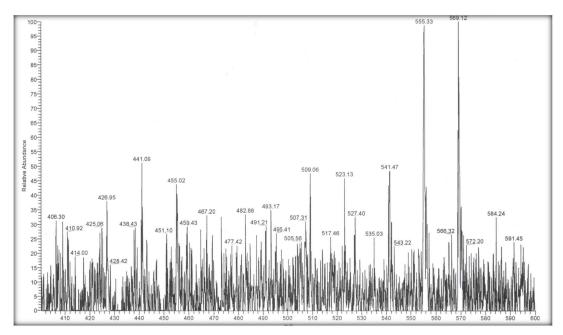


Figure S40: LC-MS Spectrum of Compounds 5a, 5b and 5c

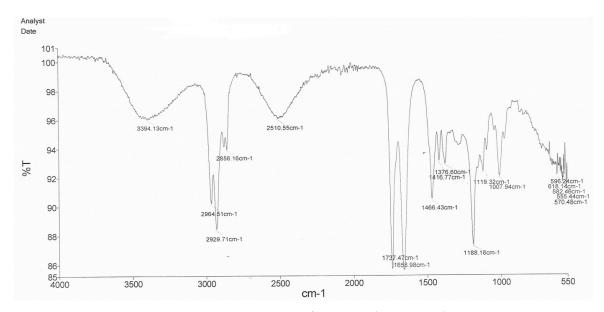


Figure S41: FT-IR Spectrum of Compounds 5a, 5b and 5c