**Supporting Information**

***Rec. Nat. Prod.* 13:3 (2019) 243-253**

# New Diterpenes Isolated from the Colombian Caribbean Soft Coral *Pseudoplexaura flagellosa* and their Cytotoxic Properties

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**Table of Contents** **Page**



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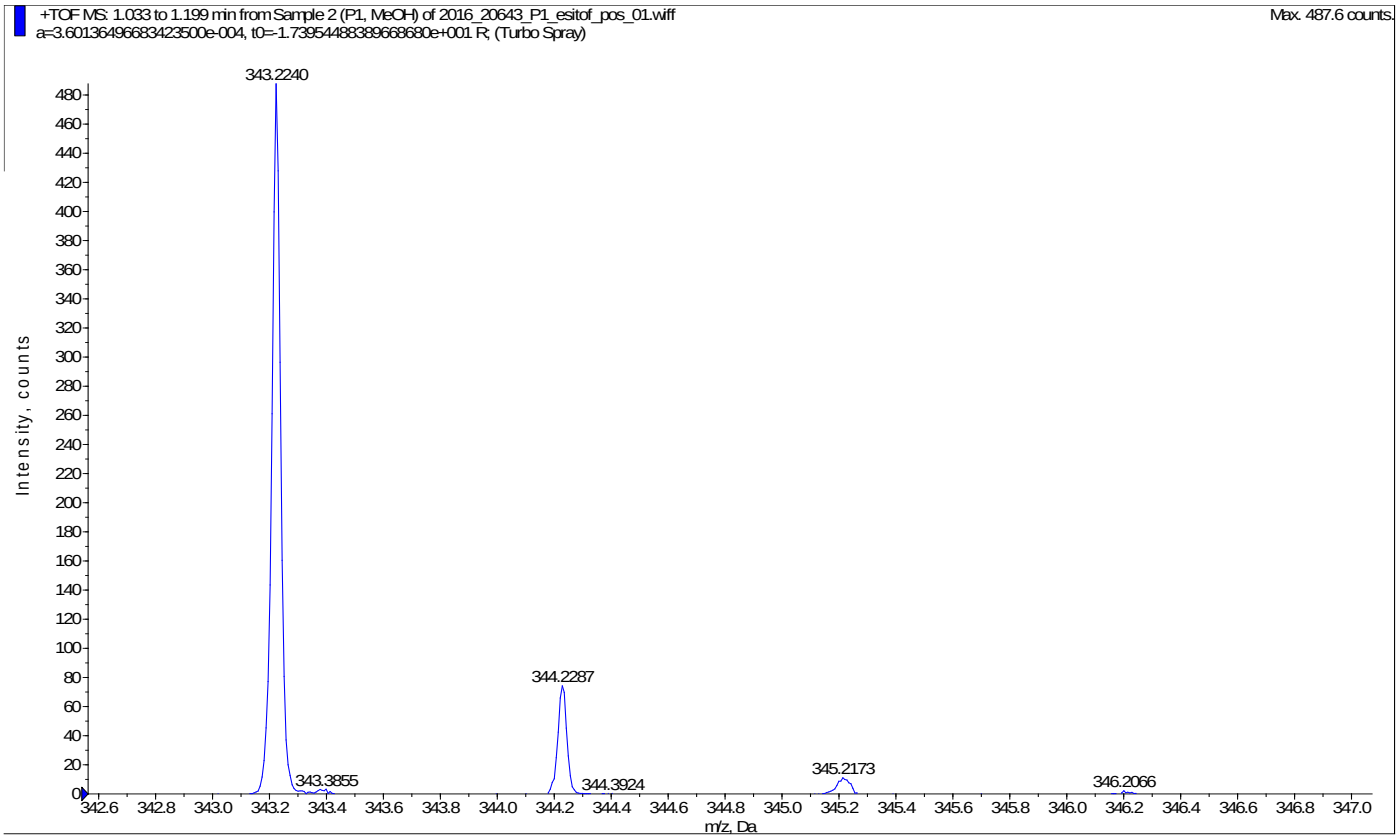



| ***m/z* experimental** | **343.2240** | | | |
|---|---|---|---|---|
| Formula | *m/z* theorical | Erro, mDa | Erro,ppm | |
| **$C_{20}$ $H_{32}$ $O_3$ Na** | **343.2243** | **-0.3663** | **-1.0672** | **4.5** |
| **$C_{22}$ $H_{31}$ $O_3$** | **343.2267** | **-2.7715** | **-8.0751** | **7.5** |

**Figure S1:** HRESI-MS Spectrum of Compound **1**

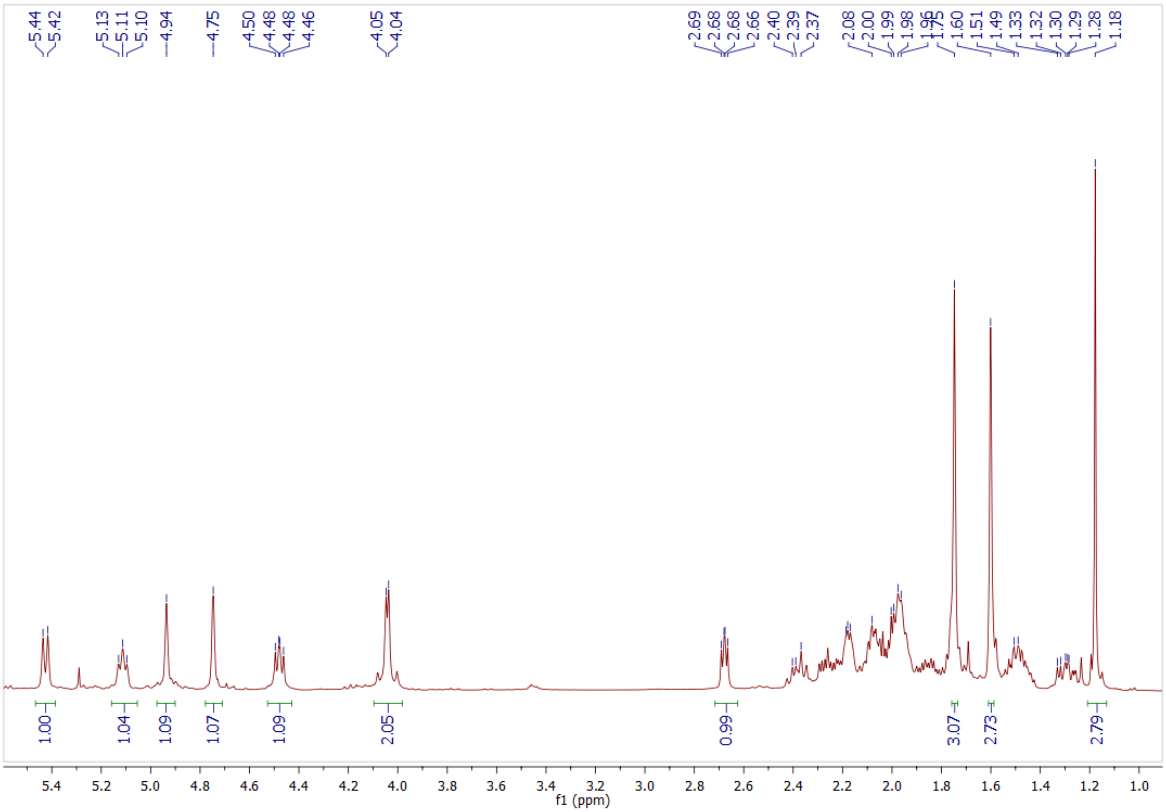



**Figure S2:** $^{1}$H NMR Spectrum of Compound **1**

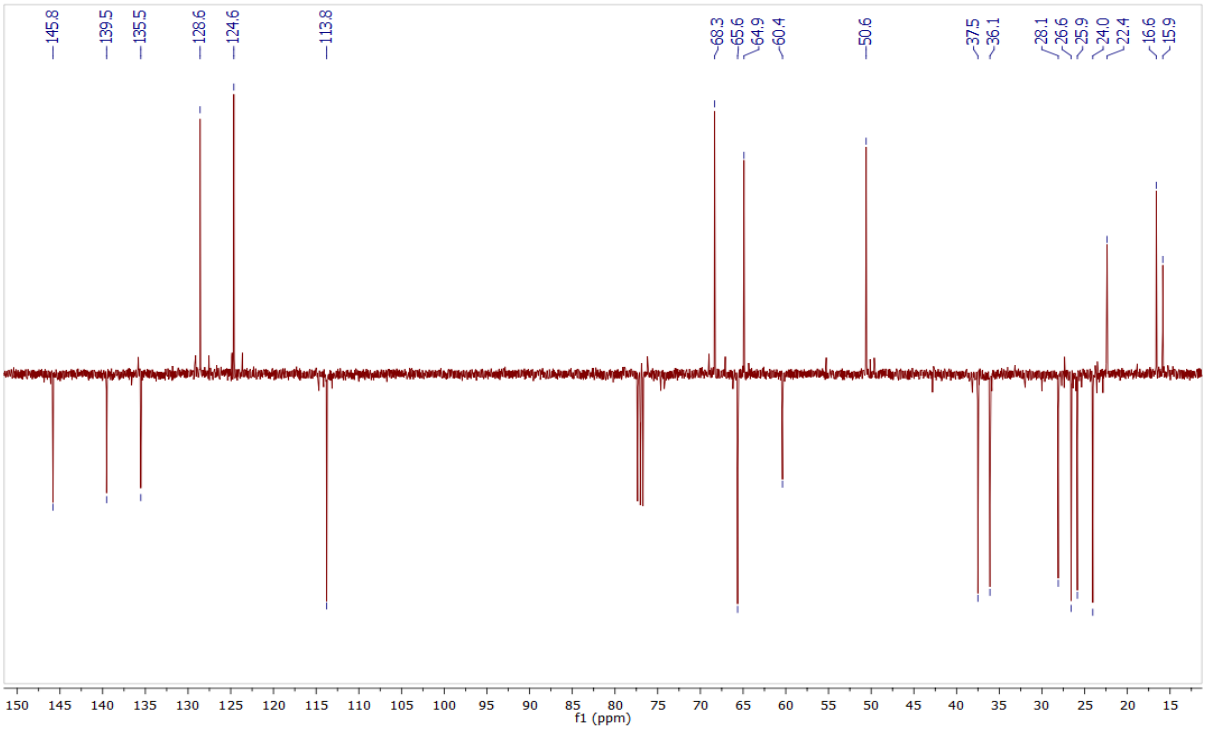



**Figure S3:** APT $^{13}$C NMR Spectrum of Compound **1**

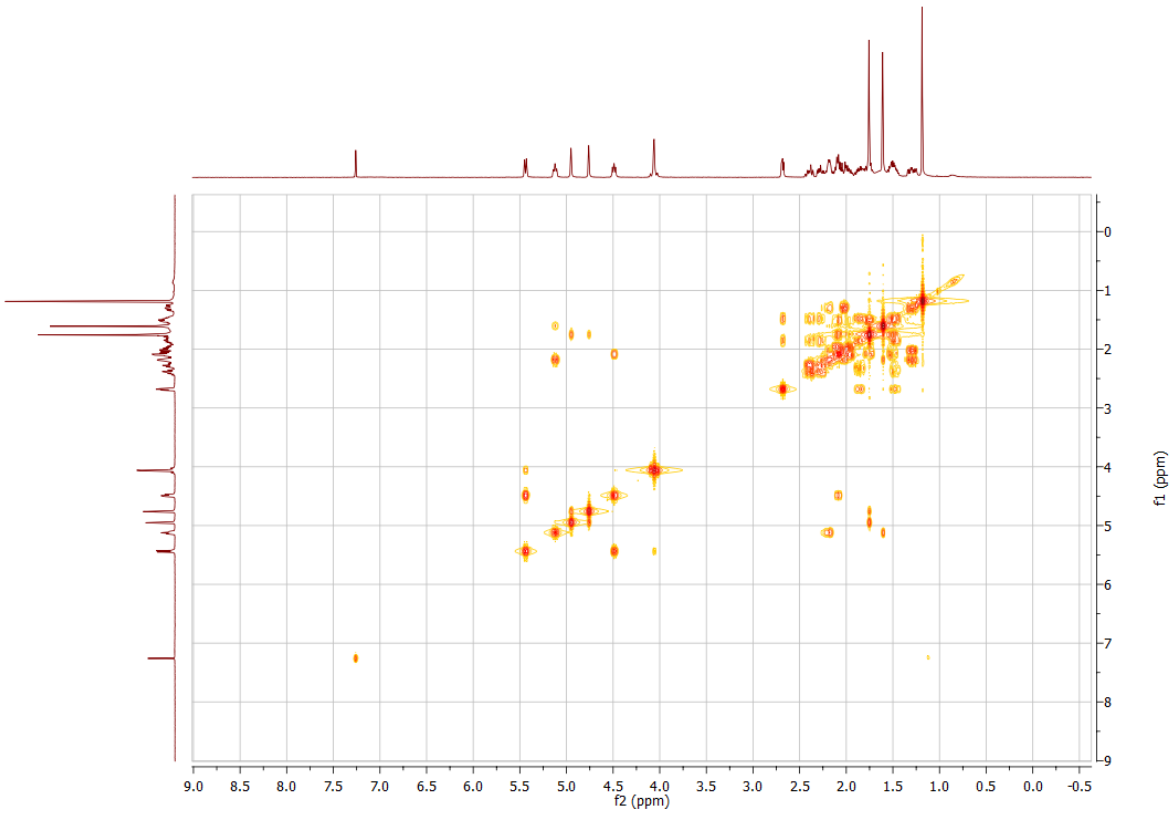
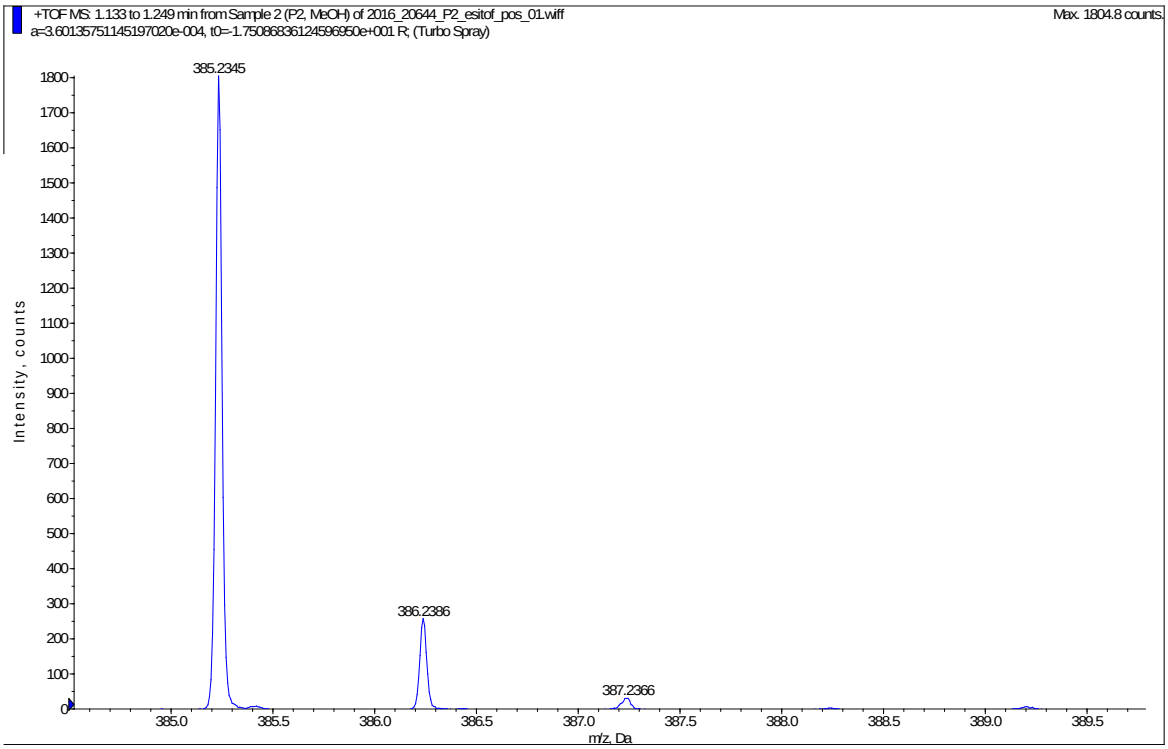



**Figure S4:** $^{1}$H-$^{1}$H COSY experiment of Compound **1**




| ***m/z* experimental** | **385.2345** | | | |
|---|---|---|---|---|
| Formula | *m/z* theorical | Erro, mDa | Erro, ppm | |
| **$C_{22}$ $H_{34}$ $O_4$ Na** | **385.2349** | **-0.431** | **-1.1189** | **5.5** |
| **$C_{24}$ $H_{33}$ $O_4$** | **385.2373** | **-2.8363** | **-7.3625** | **8.5** |

**Figure S5:** HRESI-MS Spectrum of Compound **2**

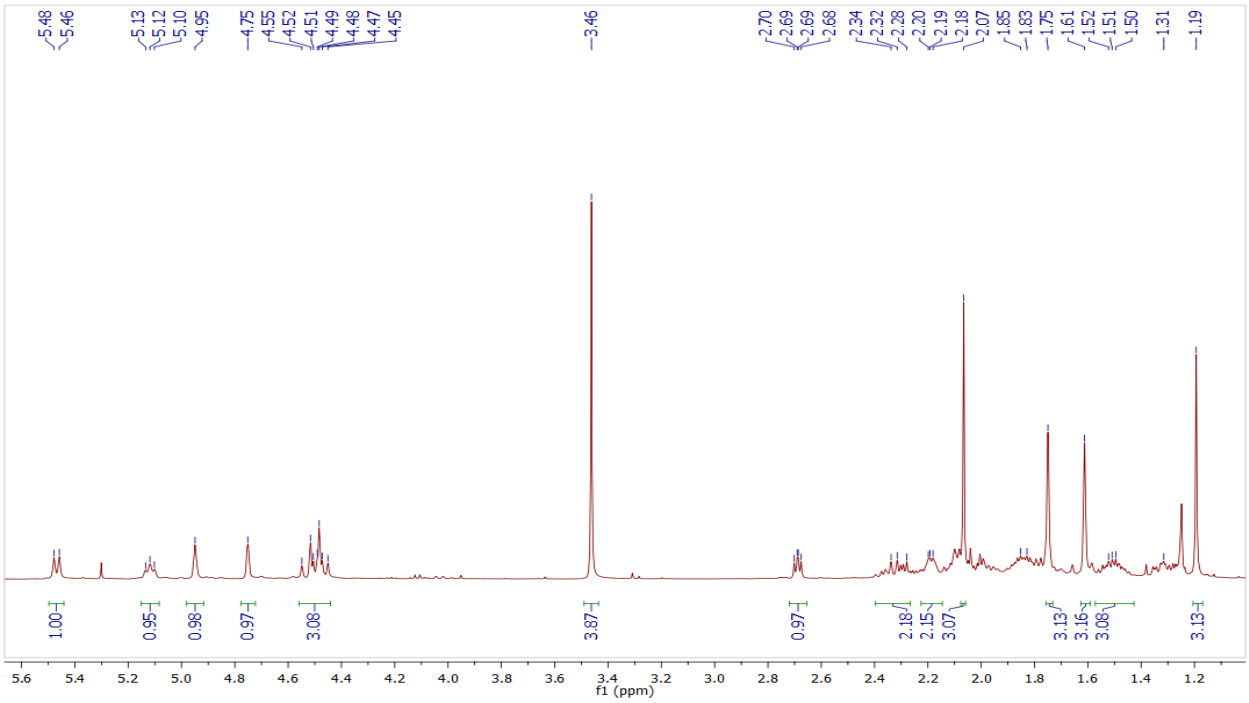



**Figure S6:** $^{1}$H NMR Spectrum of Compound **2**

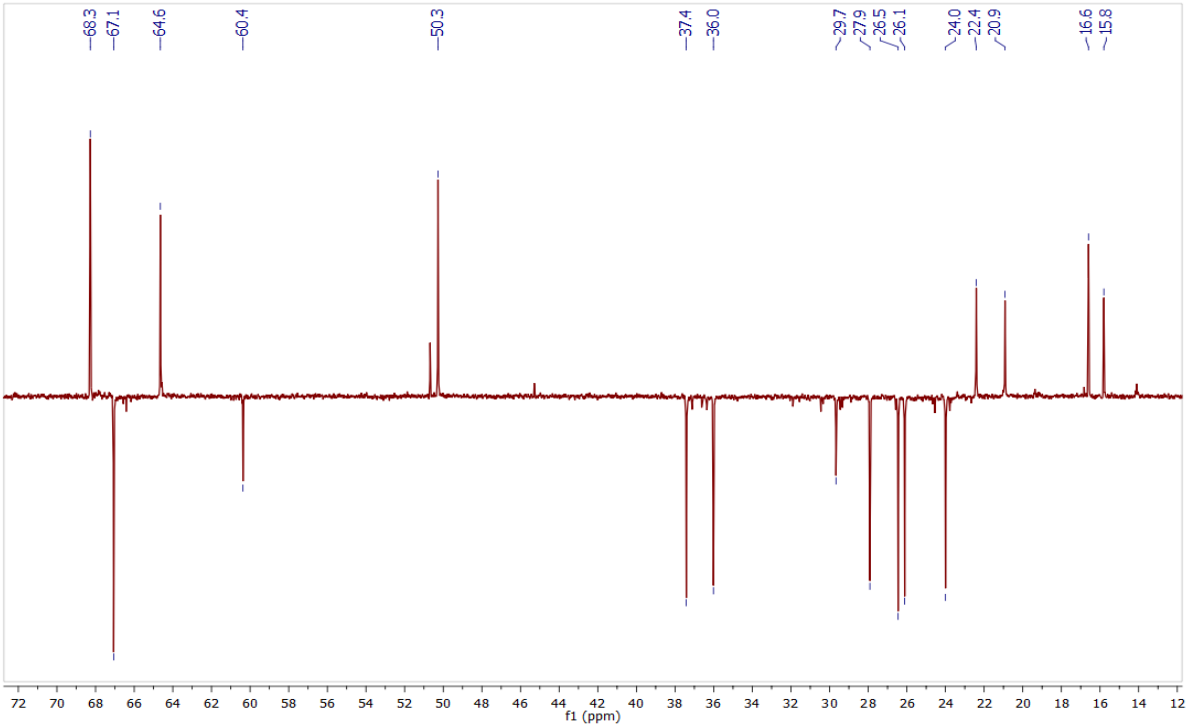



**Figure S7:** APT $^{13}$C NMR Spectrum of Compound **2**

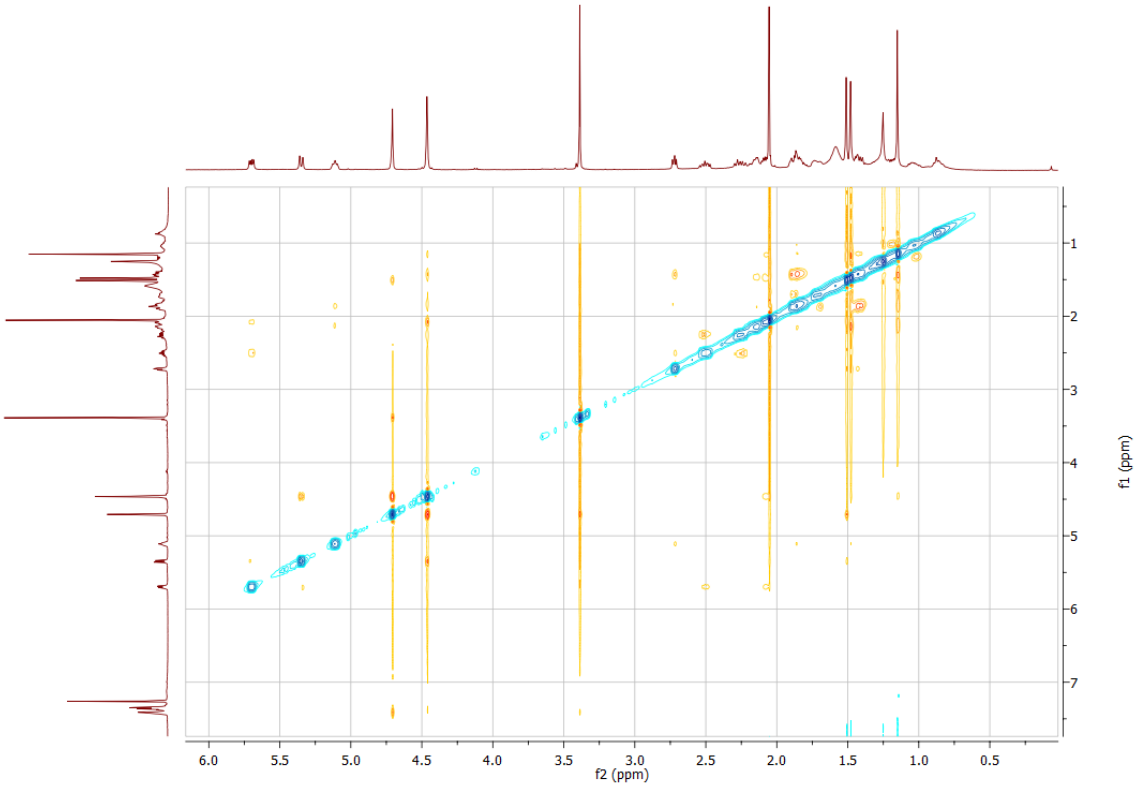
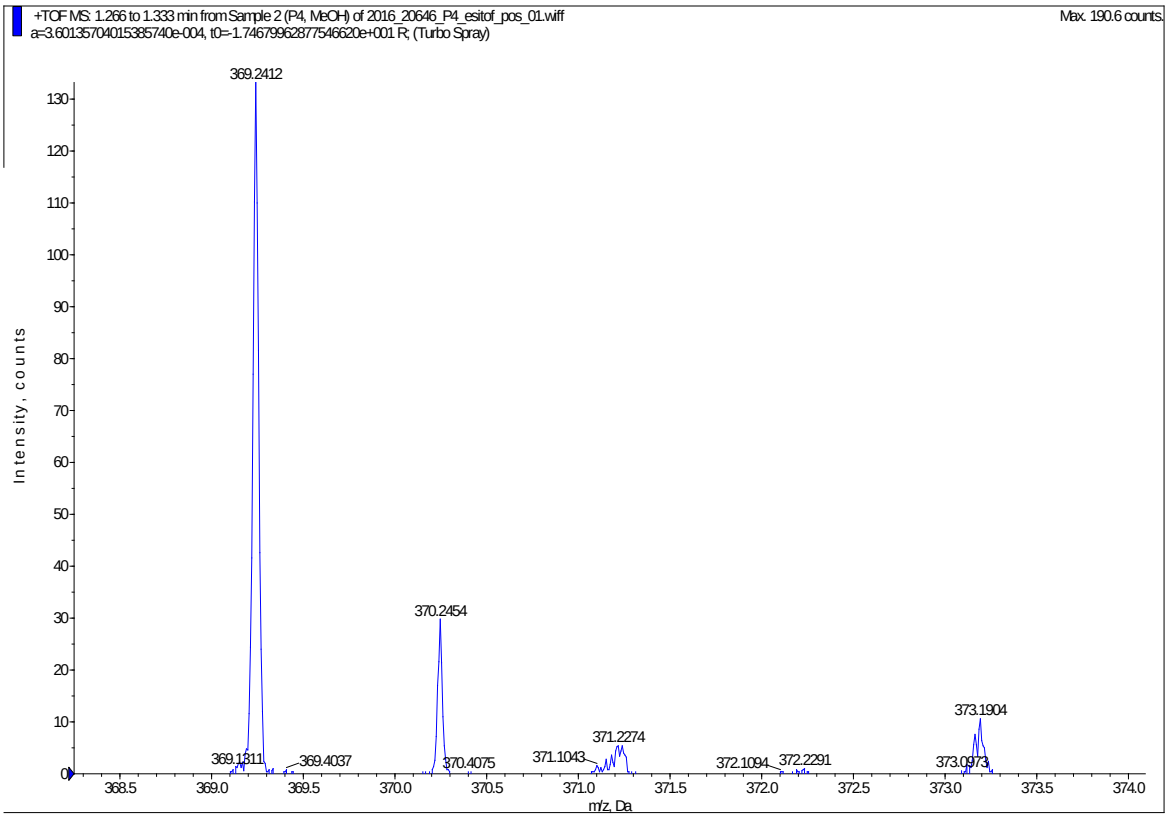



**Figure S8:** $^{1}$H-$^{1}$H NOESY experiment of Compound **2**




| ***m/z* experimental** | **369.2412** | | | |
|---|---|---|---|---|
| Formula | *m/z* theorical | Erro, mDa | Erro, ppm | |
| **$C_{22}$ $H_{34}$ $O_3$ Na** | **369.2400** | **1.1835** | **3.2054** | **5.5** |
| **$C_{24}$ $H_{33}$ $O_3$** | **369.2424** | **-1.2216** | **-3.3085** | **8.5** |

**Figure S9:** HRESI-MS Spectrum of Compound **3**

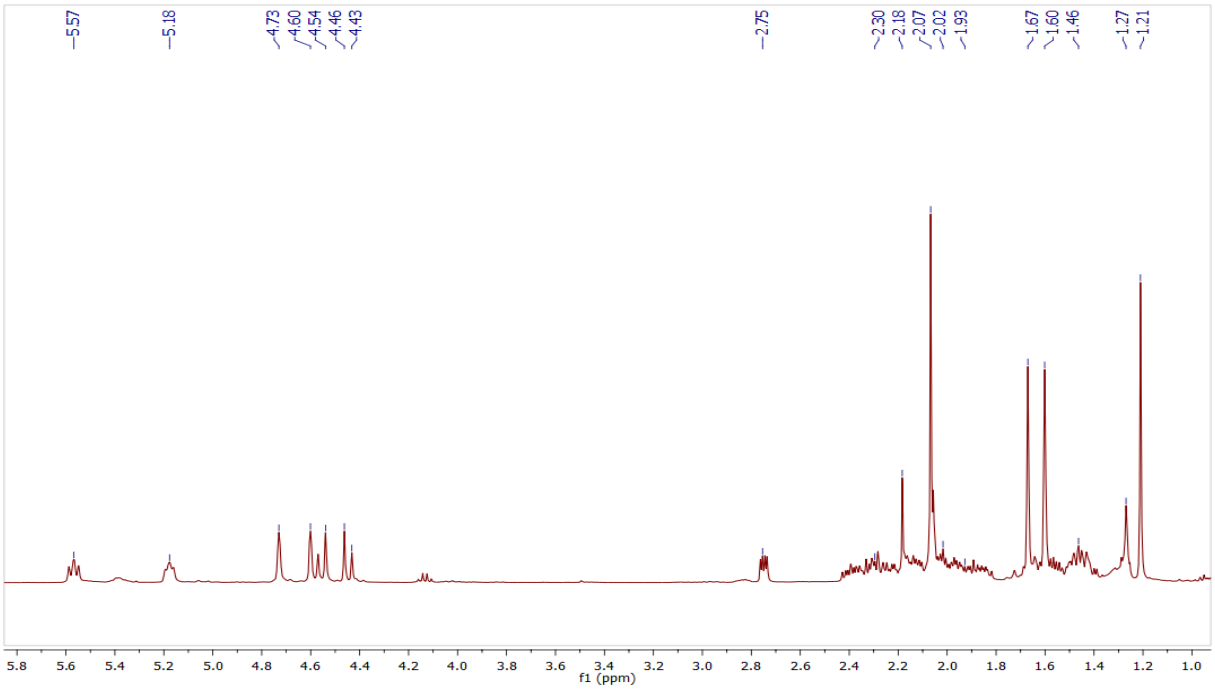
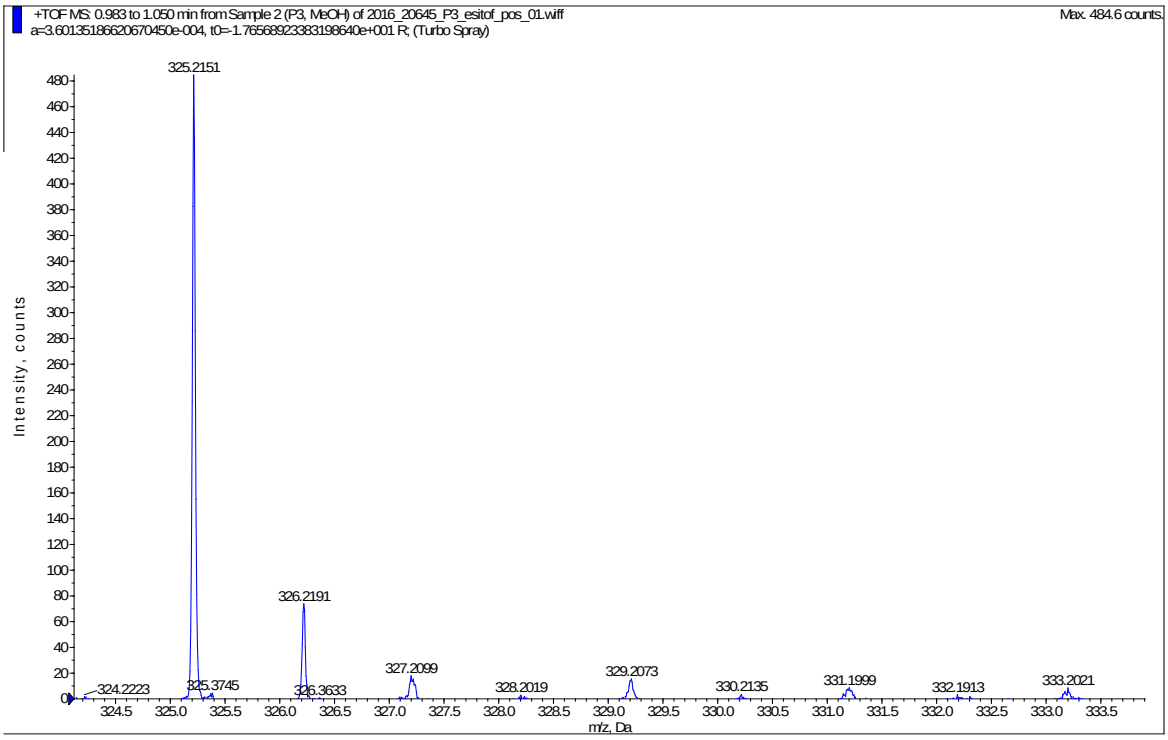



**Figure S10:** $^{1}$H NMR Spectrum of Compound **3**




| ***m/z* experimental** | **325.2151** | | | |
|---|---|---|---|---|
| Formula | *m/z* theorical | Erro, mDa | Erro,ppm | |
| **$C_{22}$ $H_{29}$ $O_2$** | **325.2162** | **-1.1068** | **-3.4034** | **8.5** |
| **$C_{20}$ $H_{30}$ $O_2$ Na** | **325.2138** | **1.2983** | **3.9924** | **5.5** |

**Figure S11:** HRESI-MS Spectrum of Compound **4**

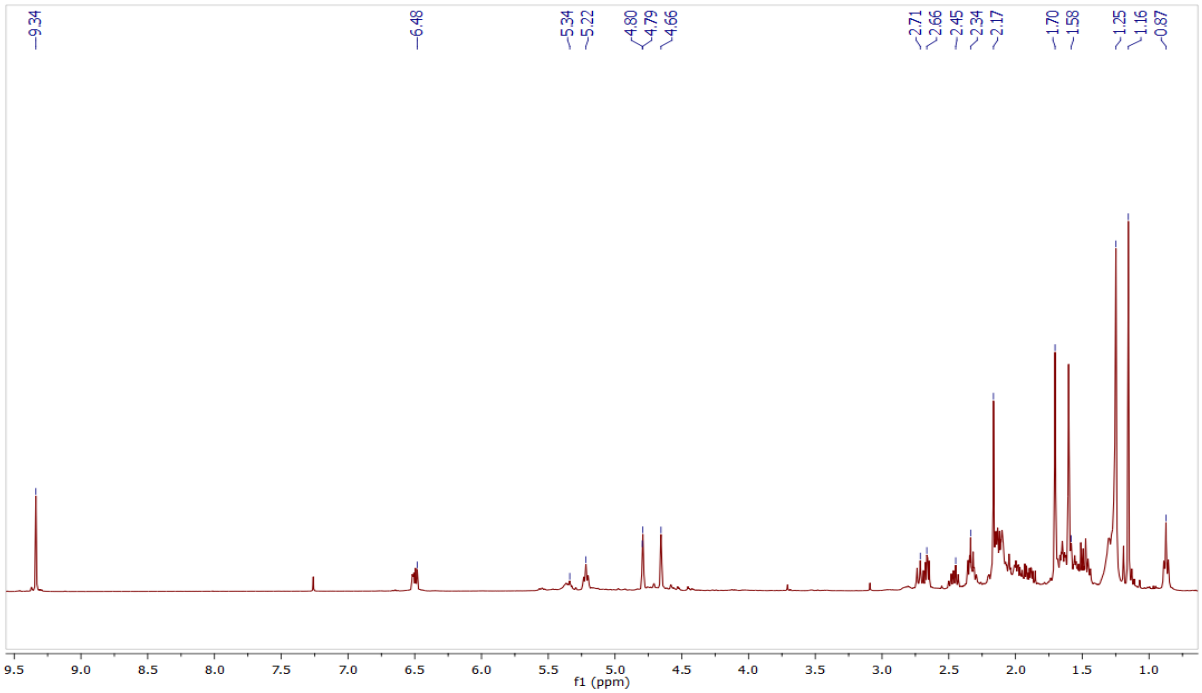



**Figure S12:** $^{1}$H NMR Spectrum of Compound **4**

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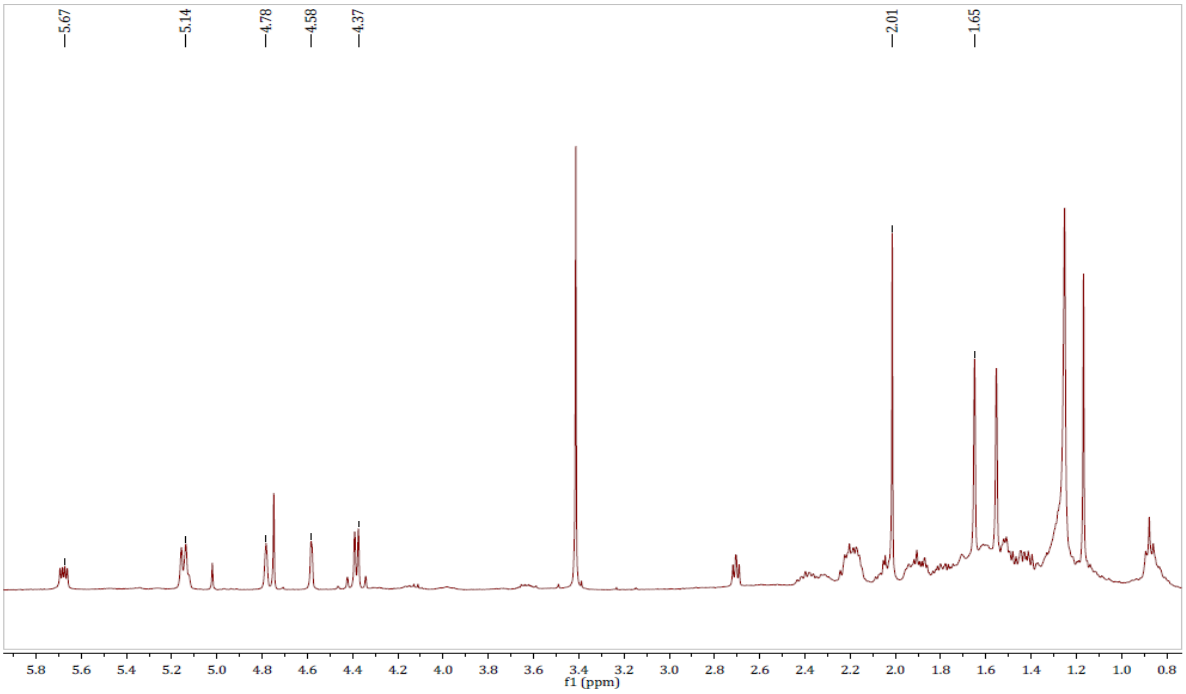


**Figure S13:** $^{1}$H NMR Spectrum of *R*-MPA ester of Compound **2**

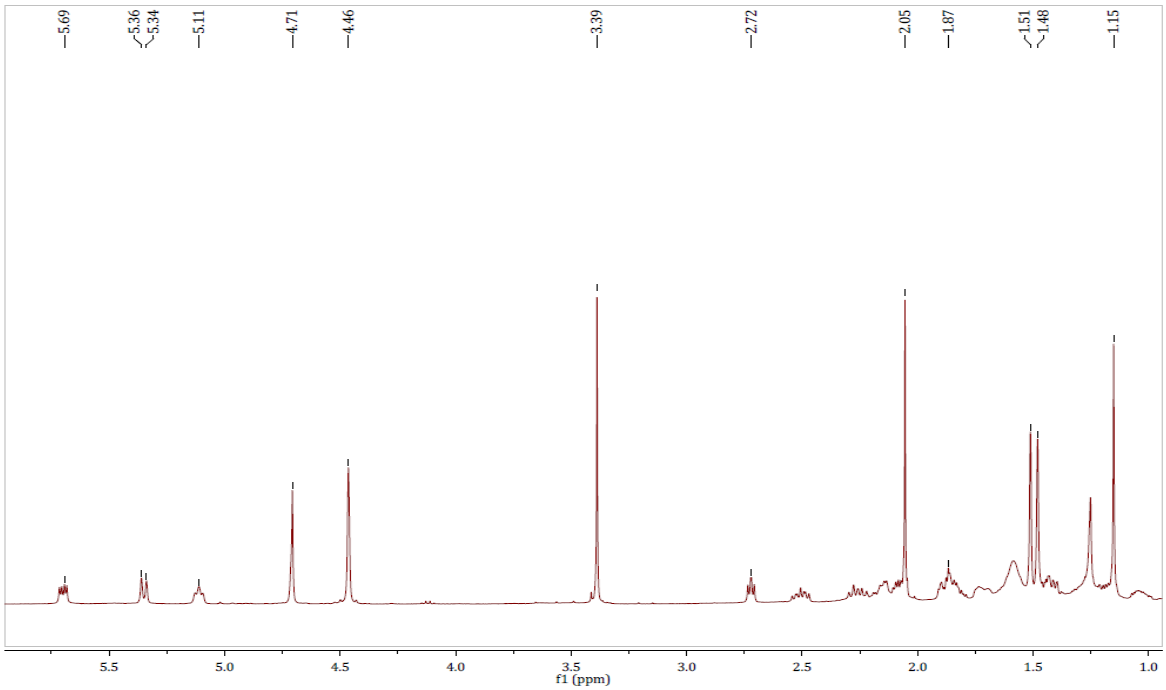


**Figure S14:** $^{1}$H NMR Spectrum of *S*-MPA ester of Compound **2**

| **no.** | **$\delta_H$ 2S** | **$\delta_H$ 2R** | **$\Delta\delta$RS** |
|---|---|---|---|
| **H-2** | | | |
| H-3 | 5.34, d, J=8.6 | 5.14, d, J=7.9 | -0.20 |
| H-11 | 5.11, t, J=6.5 | 5.13, m | +0.02 |
| H-16 | 1.51, s | 1.65, s | +0.14 |
| H-17 | 4.71, s | 4.78, s | +0.07 |
| H-17' | 4.46, s | 4.58, s | +0.12 |
| H-18 | 4.46, s | 4.37, s | -0.09 |
| H-19 | 1.25, s | 1.17, s | -0.08 |
| H-20 | 1.48, s | 1.55, s | +0.07 |

**Figure S15:** Table of Chemical Shifts Differences of *R* and *S*-MPA Esters of **2**

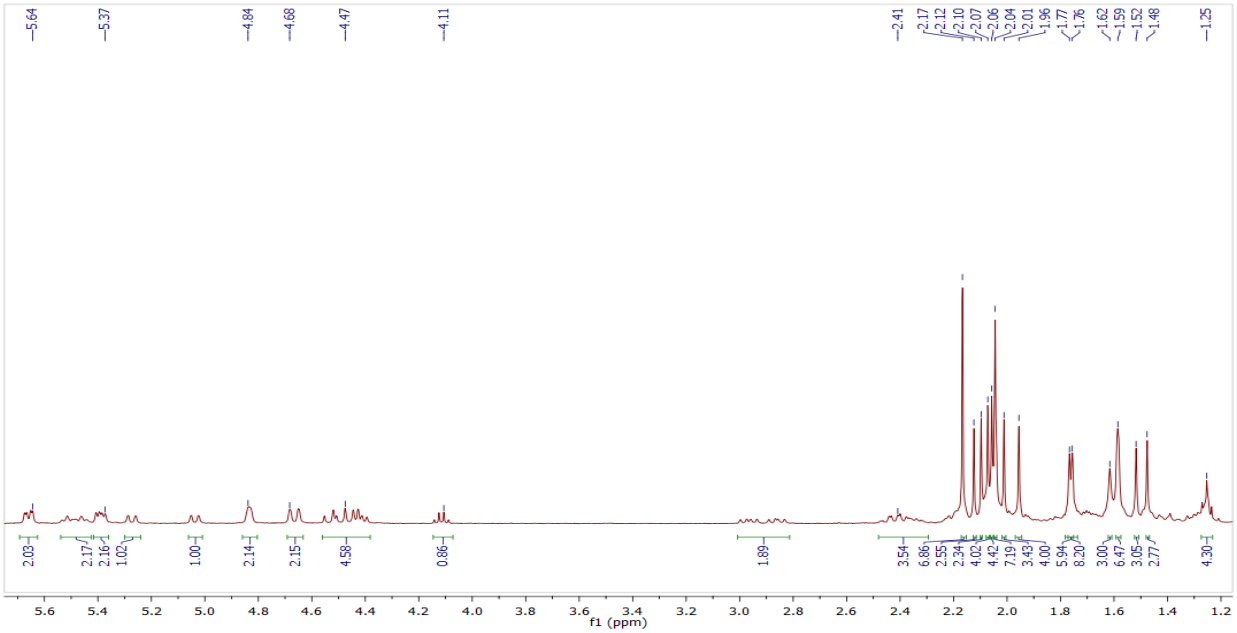


**Figure S16:** $^{1}$H NMR Spectrum of Compound **5**

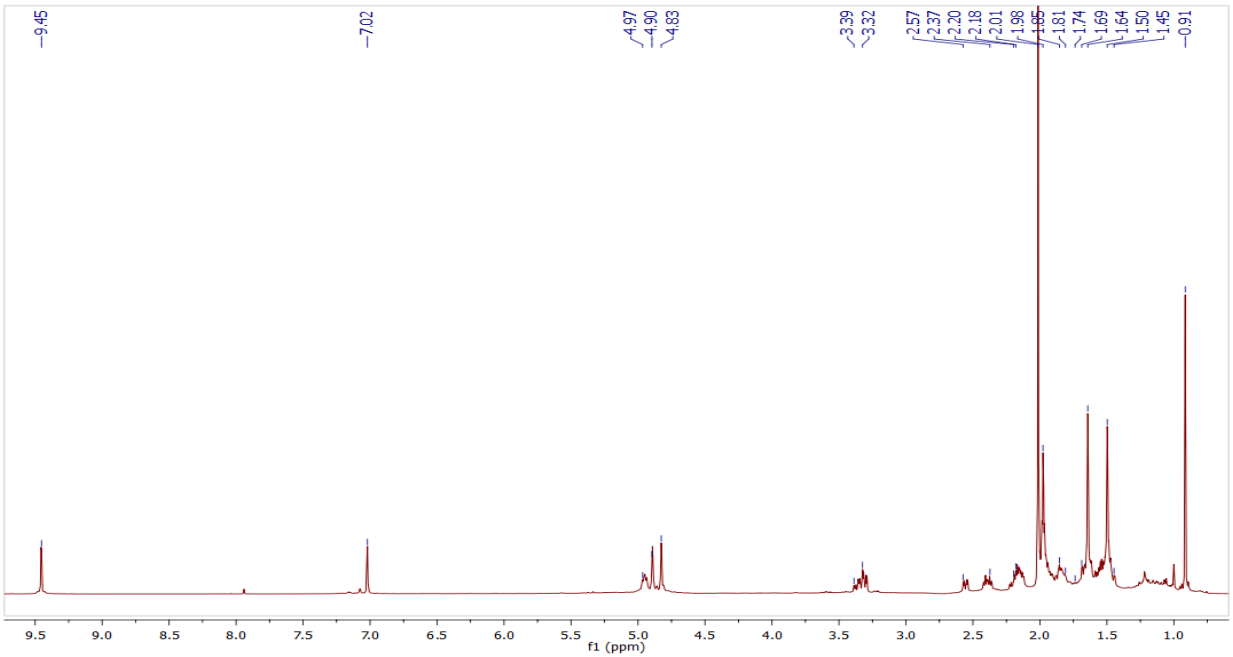


**Figure S17:** $^{1}$H NMR Spectrum of Compound **6**

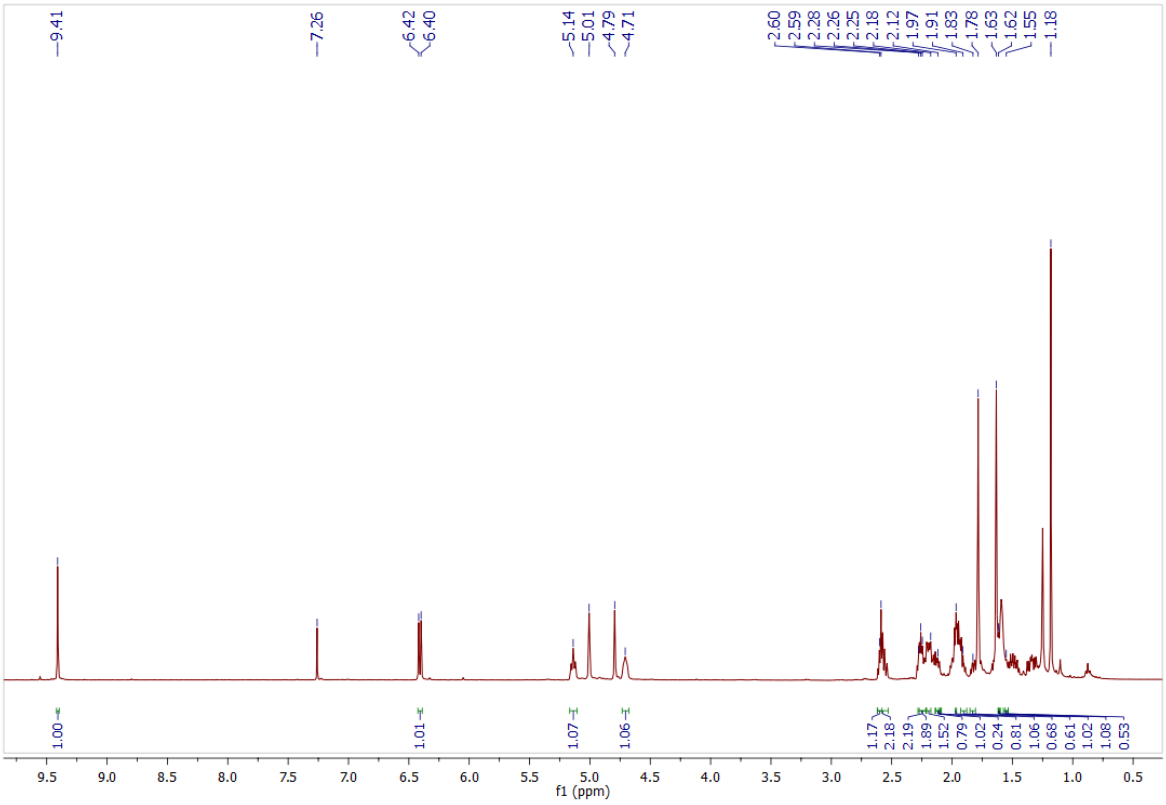


**Figure S18:** $^{1}$H NMR Spectrum of Compound **7**