

(E)-4-((4-(3-(2,5-dimethoxyphenyl)acryloyl)phenyl)amino)-4-oxobutanoic acid

Hery Suwito ^{1*}, Kautsar Ul Haq ¹, Nia Nur Dinia Rahmah ¹, Alfinda Novi Kristanti ¹ and Ni Nyoman Tri Puspaningsih ¹

¹ Department of Chemistry, Faculty of Science and Technology, Airlangga University, Surabaya 60115, Indonesia;

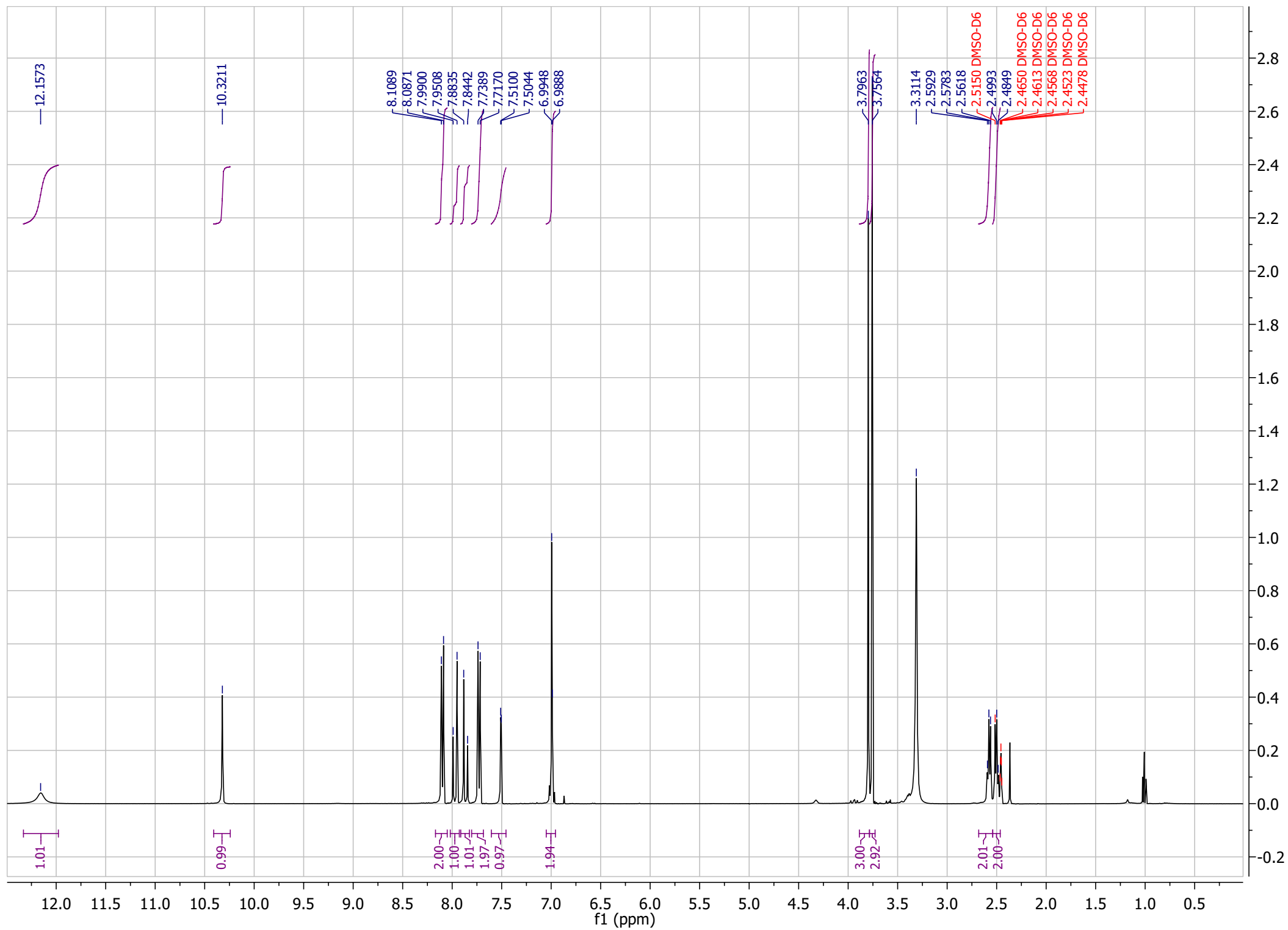
* Correspondence: herys08032002@yahoo.com.

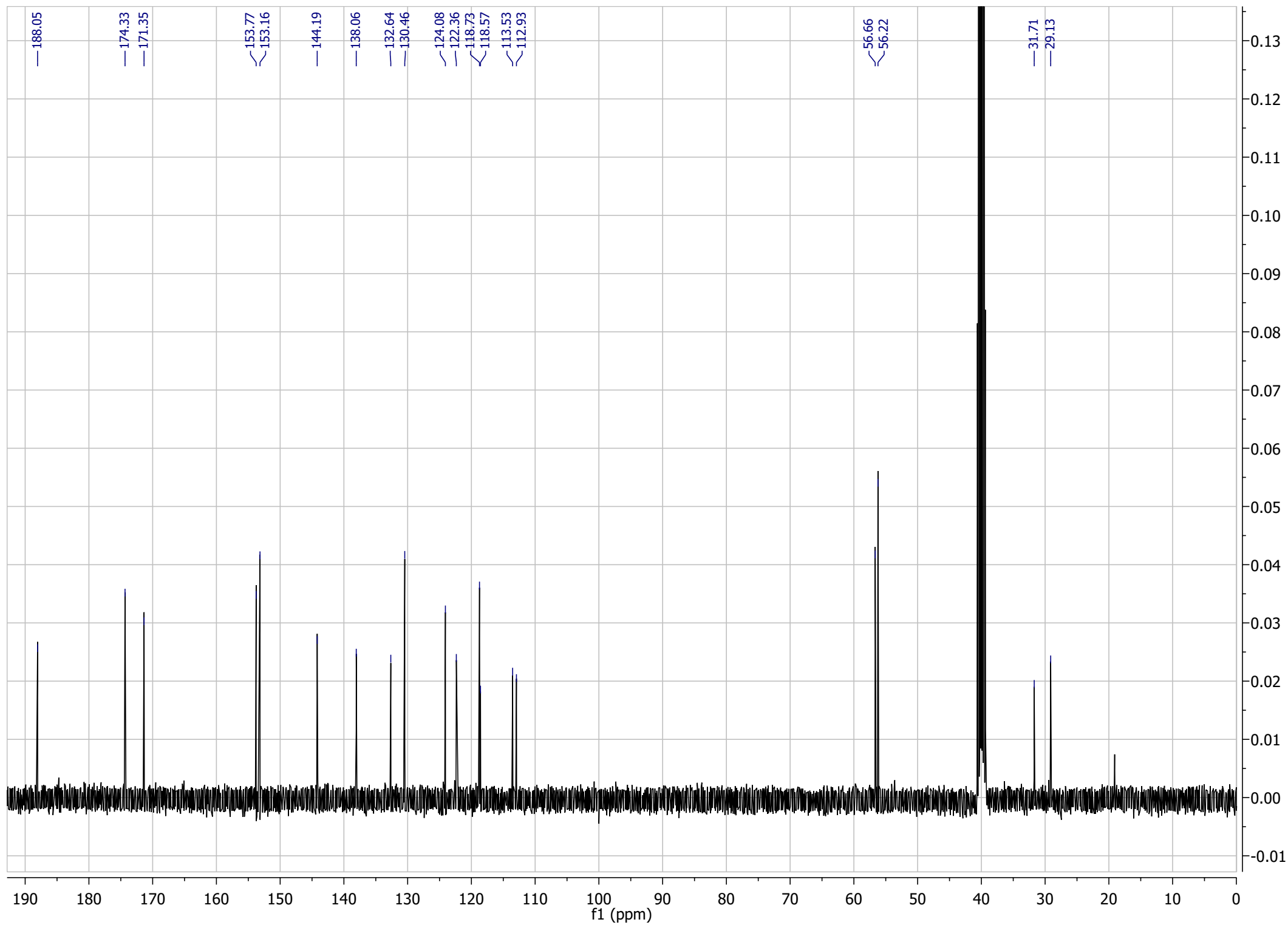
Academic Editor: name

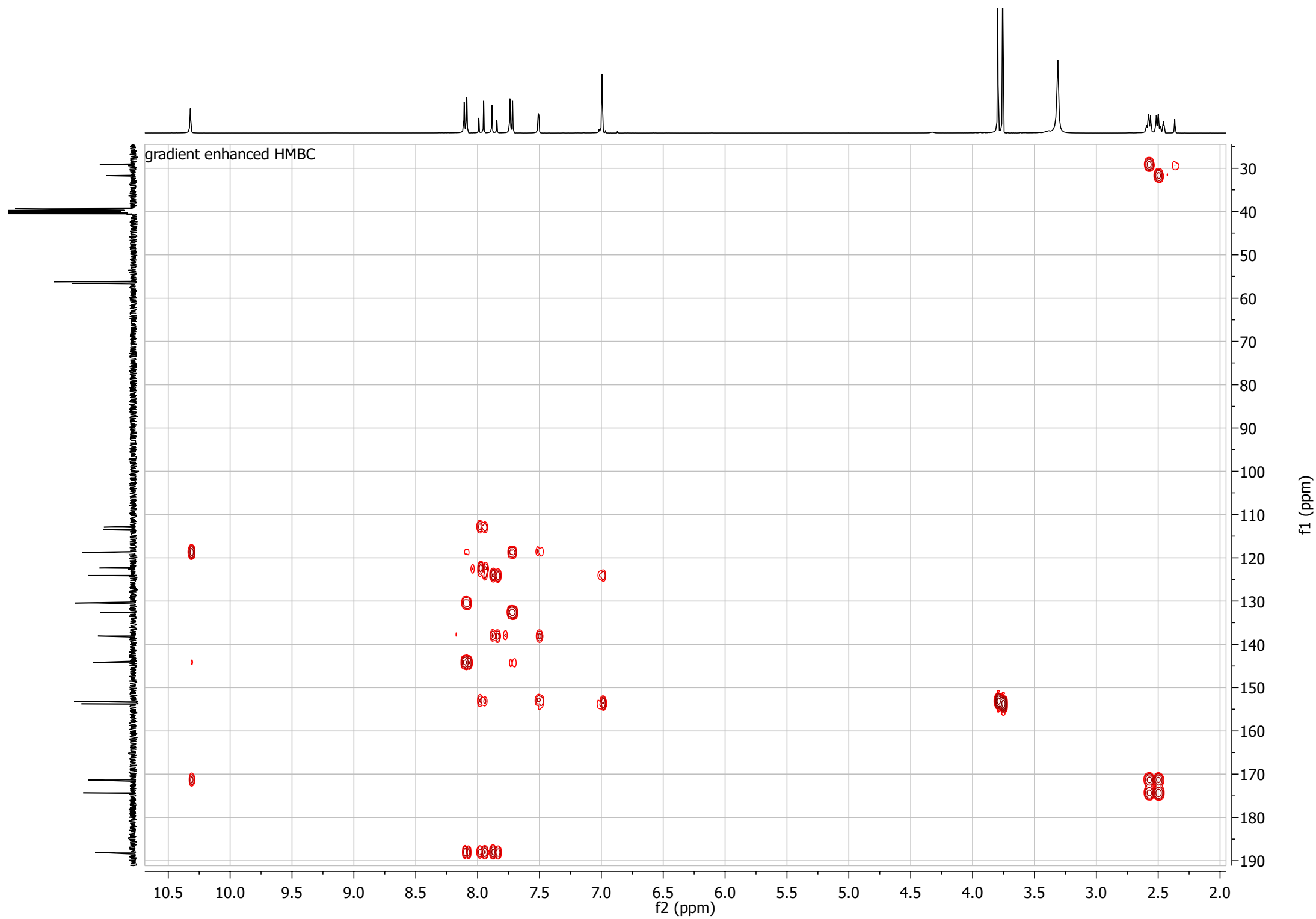
Received: date; Accepted: date; Published: date

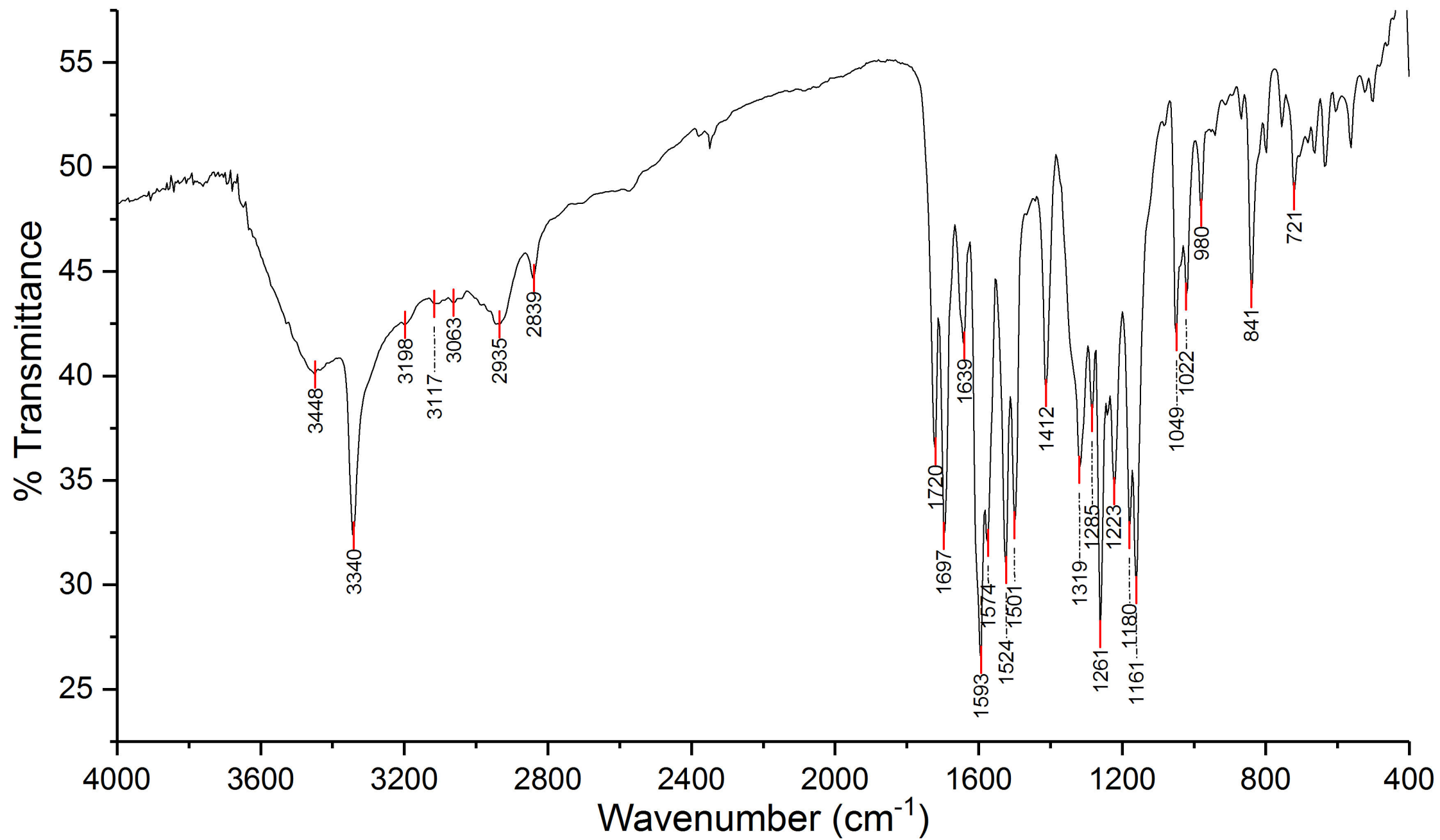
Abstract: A dimethoxy amide chalcone has been synthesized in two-step reaction. First, an amine chalcone was synthesized by reaction of 4'-aminoacetophenone and 2,5-dimethoxybenzaldehyde using 40% NaOH solution as catalyst in ethanol, then followed by amidation through the reaction of the formed chalcone and succinic anhydride. The structure of the target compound was established by FTIR, HR-MS, ¹H- and ¹³C-NMR, and 2D-NMR spectral analysis.

Keywords: Amino chalcones, amide chalcones, succinic anhydride.









Single Mass Analysis

Tolerance = 10.0 mDa / DBE: min = -1.5, max = 50.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 5

Monoisotopic Mass, Even Electron Ions

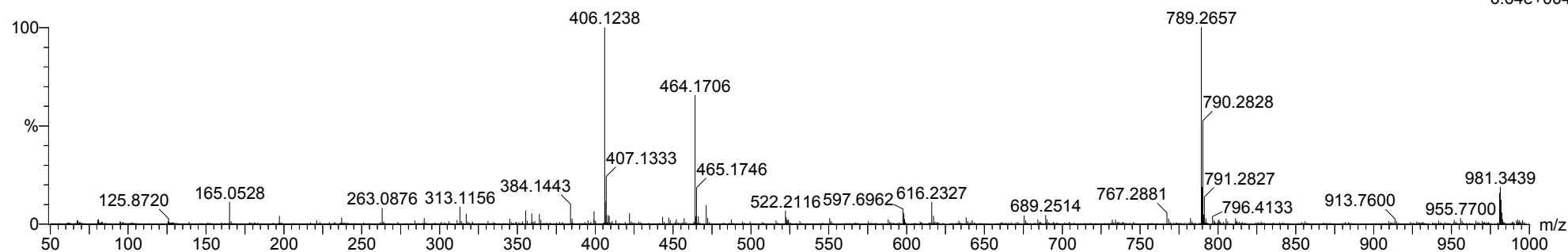
1112 formula(e) evaluated with 29 results within limits (up to 1 closest results for each mass)

Elements Used:

C: 0-1000 H: 0-1000 N: 0-500 O: 0-500

standar

Amida 6_std 350-1756_smp 384-1447_pos 6 (0.093) Cm (6:7)

TOF MS ES+
6.64e+004

Minimum: -1.5
Maximum: 10.0 15.0 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	i-FIT (Norm)	Formula
384.1443	384.1447	-0.4	-1.0	11.5	353.8	0.0	C21 H22 N O6