# 5,9,11-Trihydroxy-10-(2''-hydroxy-3''-methylbut-3''-en-1-yl)-2,2-dimethyl-3-(2'-methylbut-3'-en-2'-yl)-2H,12H-pyrano[2,3-a] xanthen-12-one from *Calophyllum pseudomole*

Mulyadi Tanjung [1*], Ratih Dewi Saputri[1] , Tjitjik Srie Tjahjandarie[1]

[1]Natural Products Chemistry Research Group, Organic Chemistry Division, Department of Chemistry, Faculty of Science and Technology, Universitas Airlangga, Surabaya 60115, Indonesia; E-mails: duffputri@gmail.com; tjitjiktjahjandarie@fst.unair.ac.id

[*]Correspondence author: mulyadi-t@fst.unair.ac.id; Tel.: +62-31-5936501; Fax: +62-31-5936502

**Abstract:** A new pyranocoumarin namely 5,9,11-trihydroxy-10-(2''-hydroxy-3''-methylbut-3''-en-1-yl)-2,2-dimethyl-3-(2'-methylbut-3'-en-2'-yl)-2H,12H-pyrano[2,3-a] xanthen-12-one (**1**) was isolated from the stem bark of *Calophyllum pseudomole*. The structure of compound **1** was elucidated based on their UV, IR, HRESIMS, 1D and 2D NMR spectral data.

**Keywords**: 5,9,11-Trihydroxy-10-(2''-hydroxy-3''-methylbut-3''-en-1-yl)-2,2-dimethyl-3-(2'-methylbut-3'-en-2'-yl)-2H,12H-pyrano[2,3-a] xanthen-12-one, *Calophyllum pseudomole*, Pyranoxanthone.

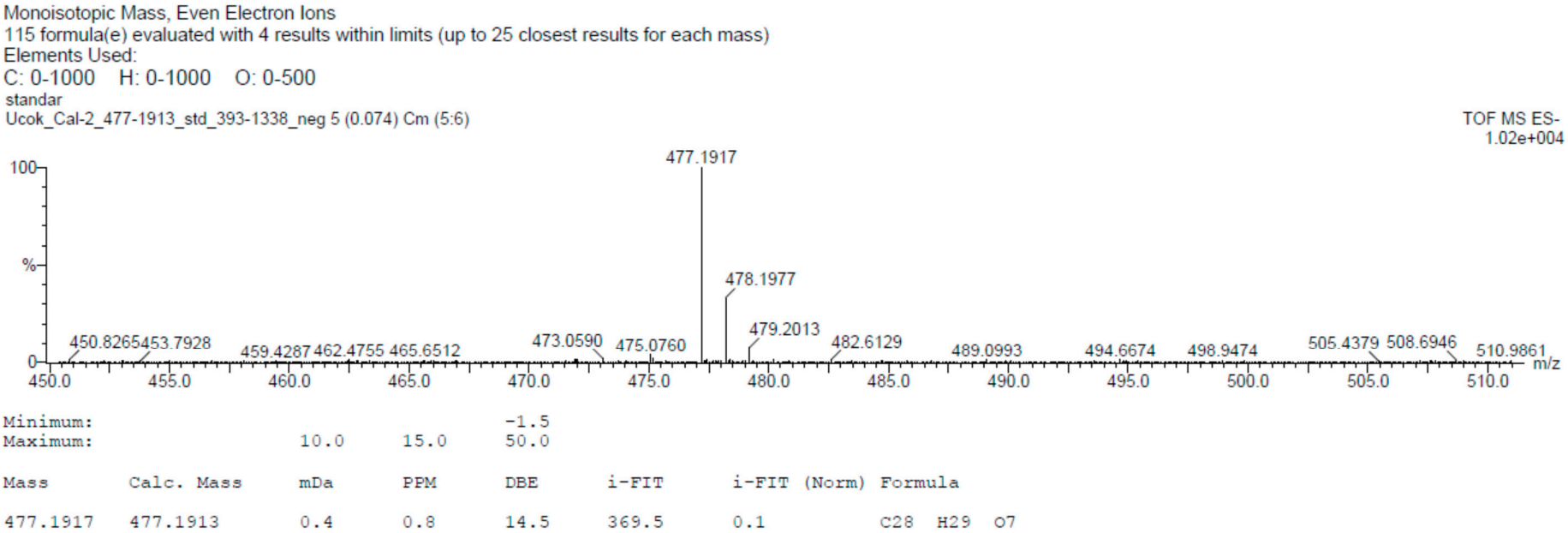


**Figure S1.** HRESIMS spectrum of 5,9,11-trihydroxy-10-(2’’-hydroxy-3’’-methylbut-3’’-en-1-yl)-2,2-dimethyl-3-(2’-methylbut-3’-en-2’-yl)-2H,12H-pyrano[2,3-a] xanthen-12-one

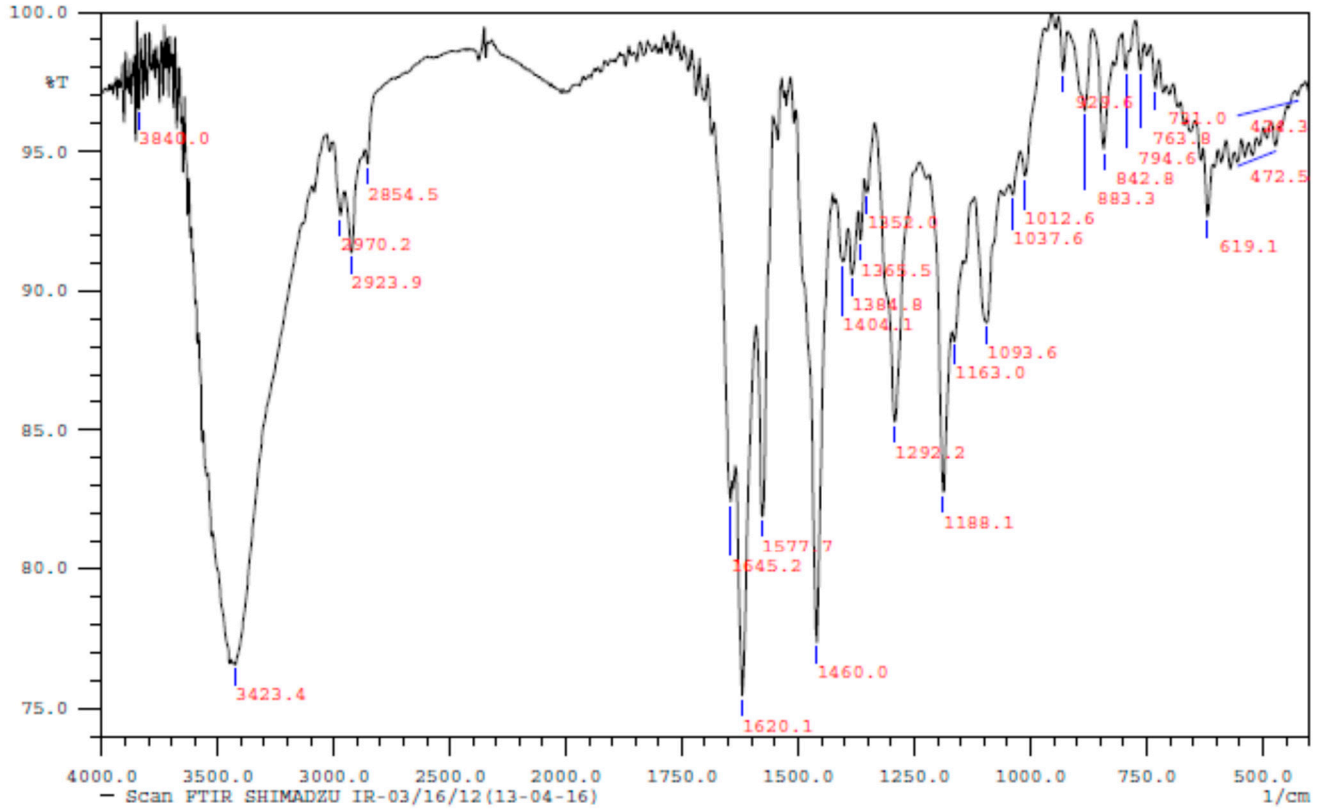


**Figure S2.** IR spectrum of 5,9,11-trihydroxy-10-(2’’-hydroxy-3’’-methylbut-3’’-en-1-yl)-2,2-dimethyl-3-(2’-methylbut-3’-en-2’-yl)-2H,12H-pyrano[2,3-a] xanthen-12-one

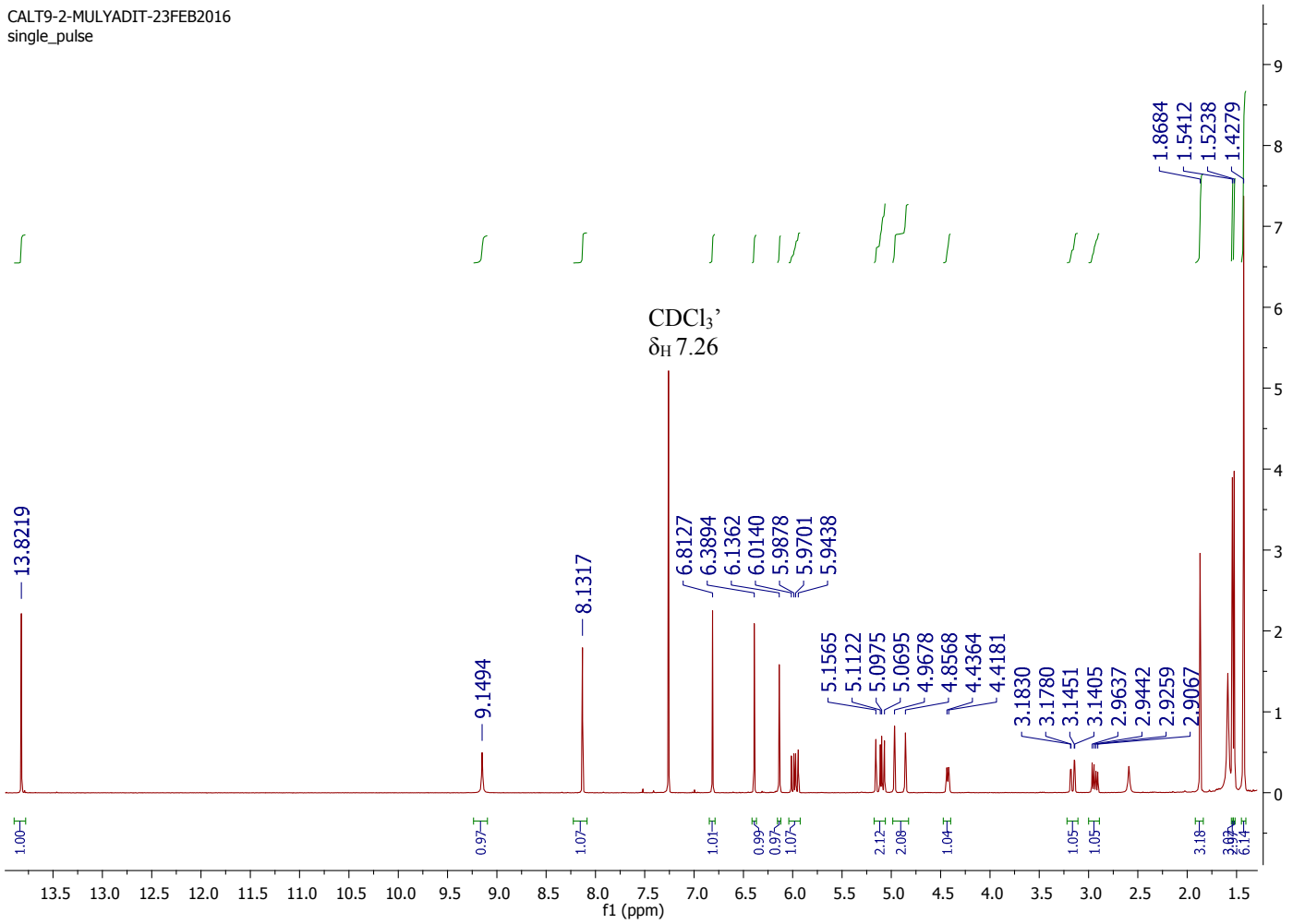


**Figure S3.** [1]H NMR spectrum of 5,9,11-trihydroxy-10-(2''-hydroxy-3''-methylbut-3''-en-1-yl)-2,2-dimethyl-3-(2'-methylbut-3'-en-2'-yl)-2H,12H-pyrano[2,3-a] xanthen-12-one

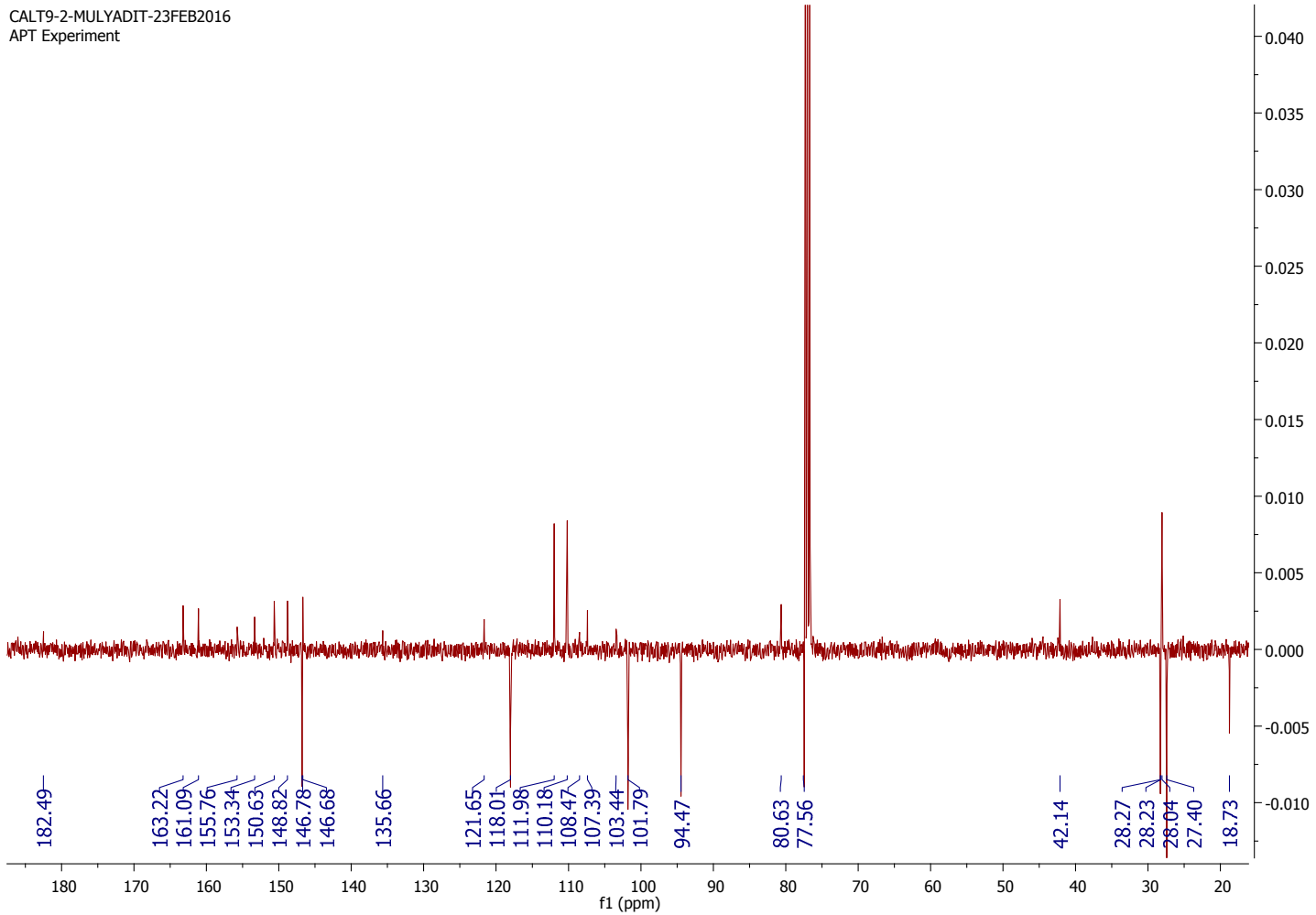


**Figure S4.** $^{13}$C NMR (APT experiment) spectrum of 5,9,11-trihydroxy-10-(2’’-hydroxy-3’’-methylbut-3’’-en-1-yl)-2,2-dimethyl-3-(2’-methylbut-3’-en-2’-yl)-2H,12H-pyrano[2,3-a] xanthen-12-one

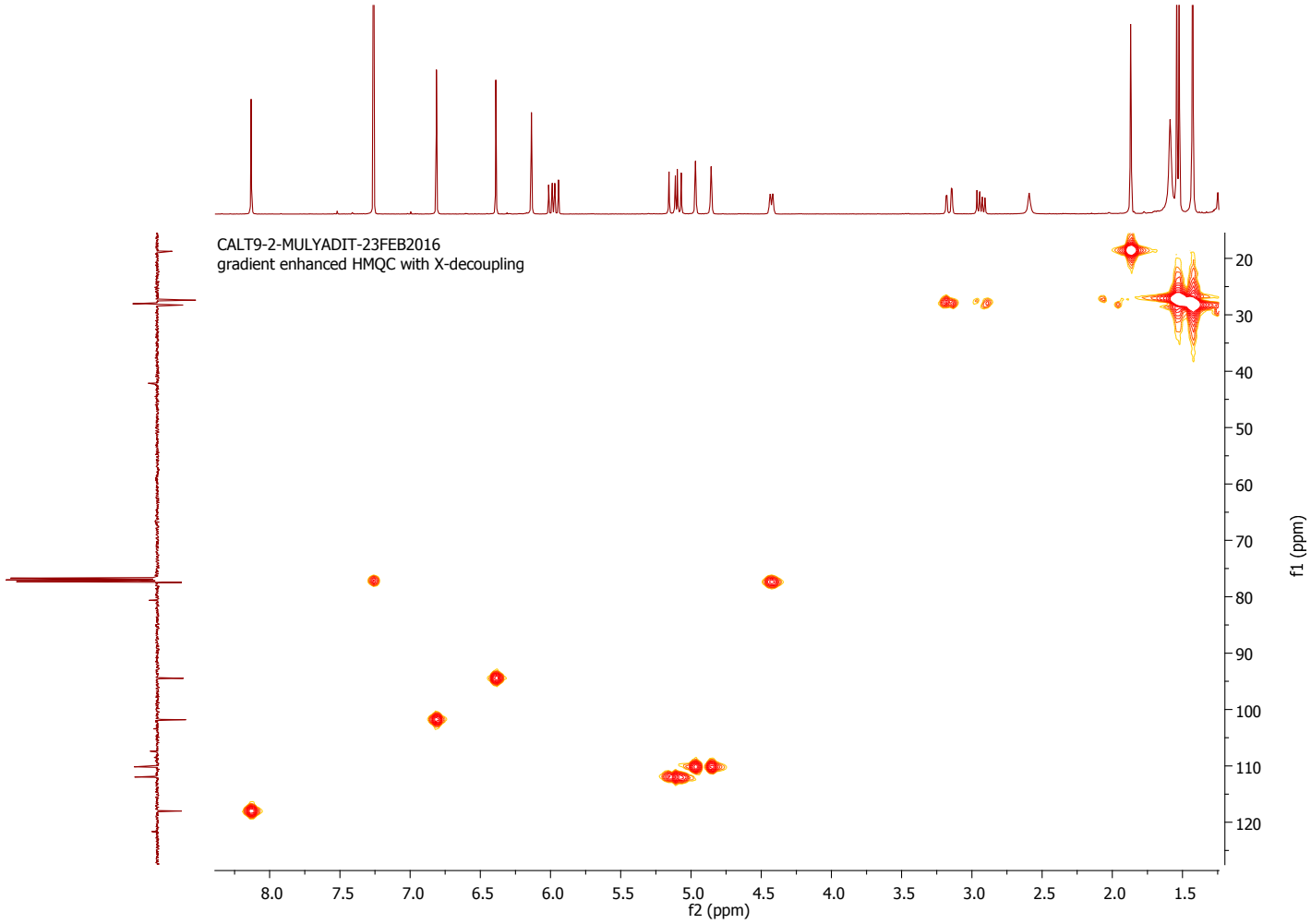


**Figure S5.** HMQC spectrum of 5,9,11-trihydroxy-10-(2’’-hydroxy-3’’-methylbut-3’’-en-1-yl)-2,2-dimethyl-3-(2’-methylbut-3’-en-2’-yl)-2H,12H-pyrano[2,3-a] xanthen-12-one

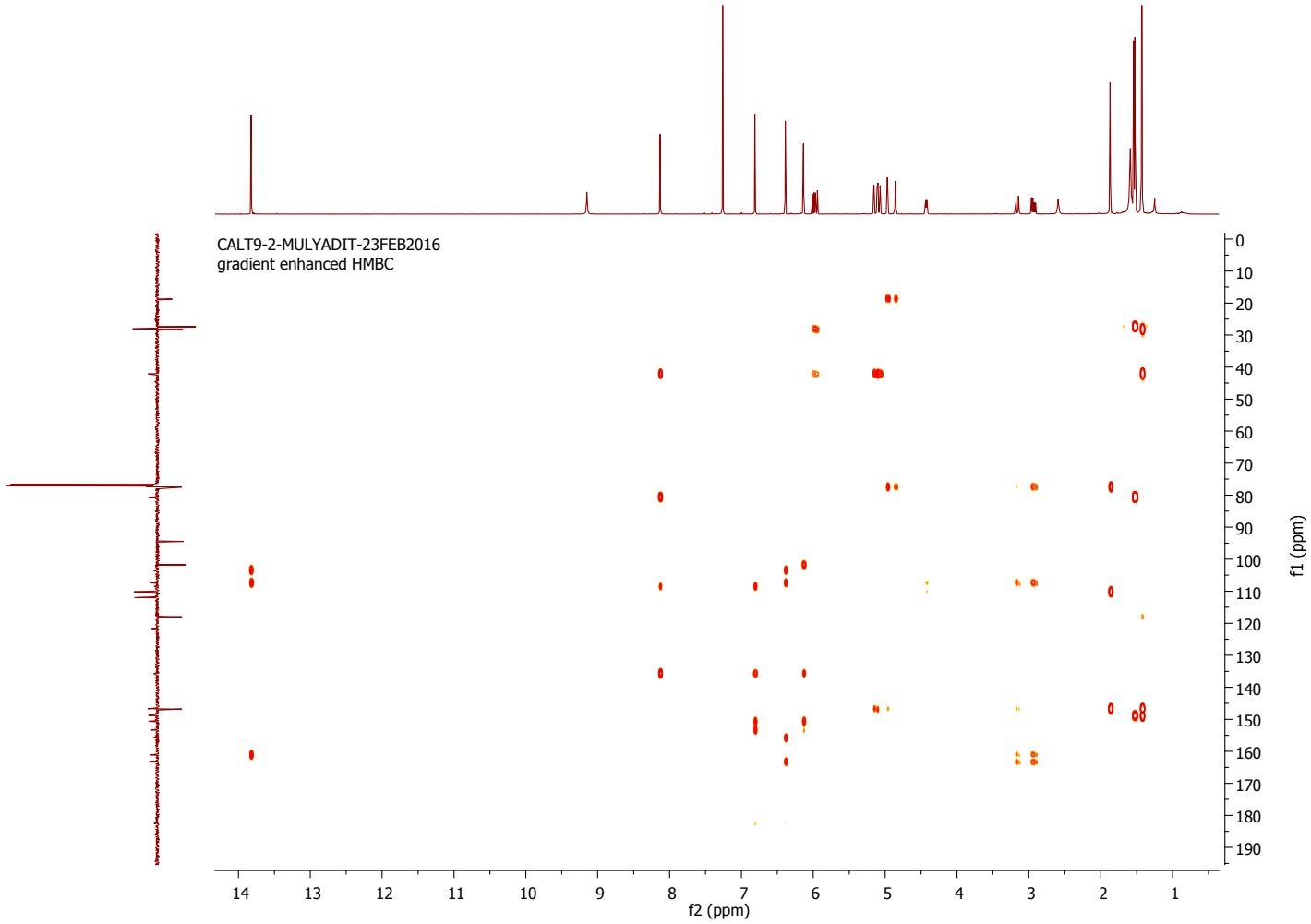


**Figure S6.** HMBC spectrum of 5,9,11-trihydroxy-10-(2’’-hydroxy-3’’-methylbut-3’’-en-1-yl)-2,2-dimethyl-3-(2’-methylbut-3’-en-2’-yl)-2H,12H-pyrano[2,3-a] xanthen-12-one