

## Supporting Information

### Discovery of a Novel 2,6-Difunctionalized 2H-Benzopyran Inhibitors Toward Sphingosylphosphorylcholine Synthetic Pathway as New Anti-inflammatory Target

Gee-Hyung Lee, Seong Jin Lee,<sup>†</sup> Dae Young Jeong,<sup>†</sup> Ha-Young Kim, Doohyun Lee,<sup>‡</sup> Taeho Lee,<sup>‡</sup> Jong-Yeon Hwang,<sup>†</sup> Woo Kyu Park,<sup>†</sup> Jae-Yang Kong,<sup>§</sup> Heeyeong Cho,<sup>†,\*</sup> and Young-Dae Gong<sup>\*</sup>

*Innovative Drug Library Research Center, Science College, Dongguk University, Seoul 100-715, Korea*

*\*E-mail: ydgong@dongguk.edu*

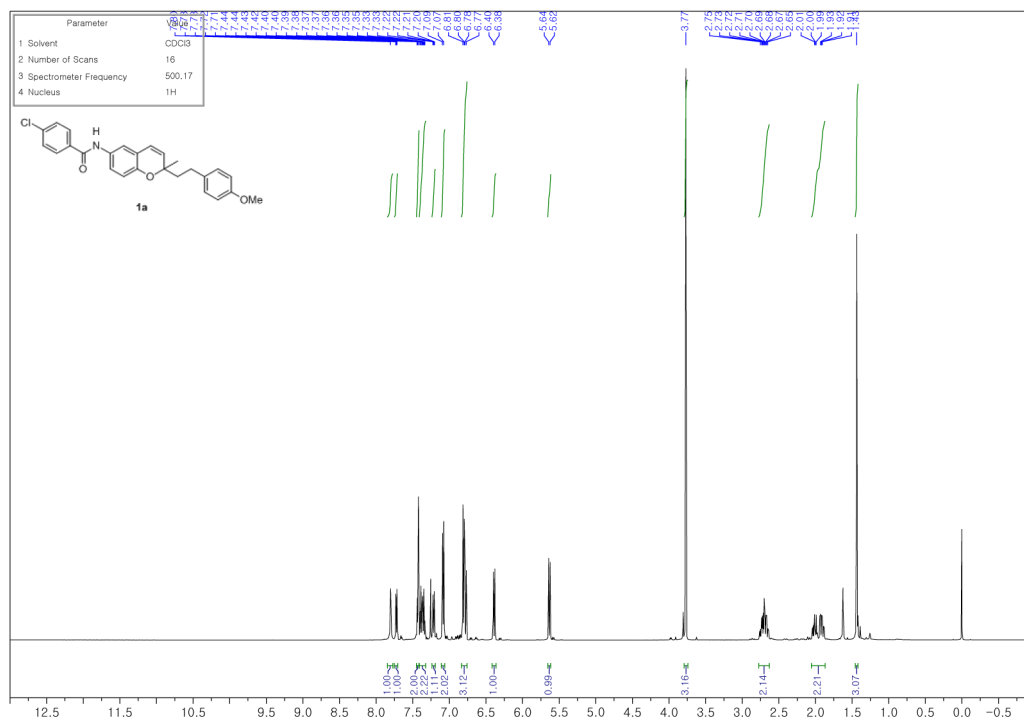
*<sup>†</sup>Pharmacology Research Center, Drug Discovery Division, Korea Research Institute of Chemical Technology, Daejeon 305-343, Korea. \*E-mail: hycho@kRICT.re.kr*

*<sup>‡</sup>College of Pharmacy, Research Institute of Pharmaceutical Sciences, Kyungpook National University, Daegu 702-701, Korea*

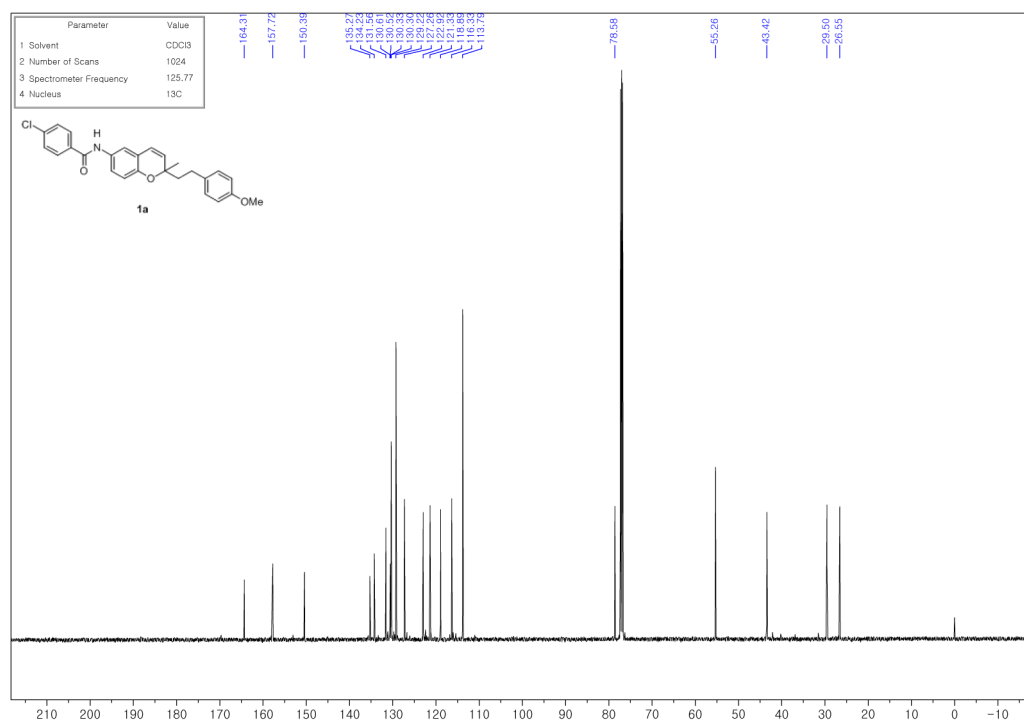
*<sup>§</sup>College of Pharmacy, Research Institute of Pharmaceutical Sciences, Keimyung University, Daegu 704-701, Korea*

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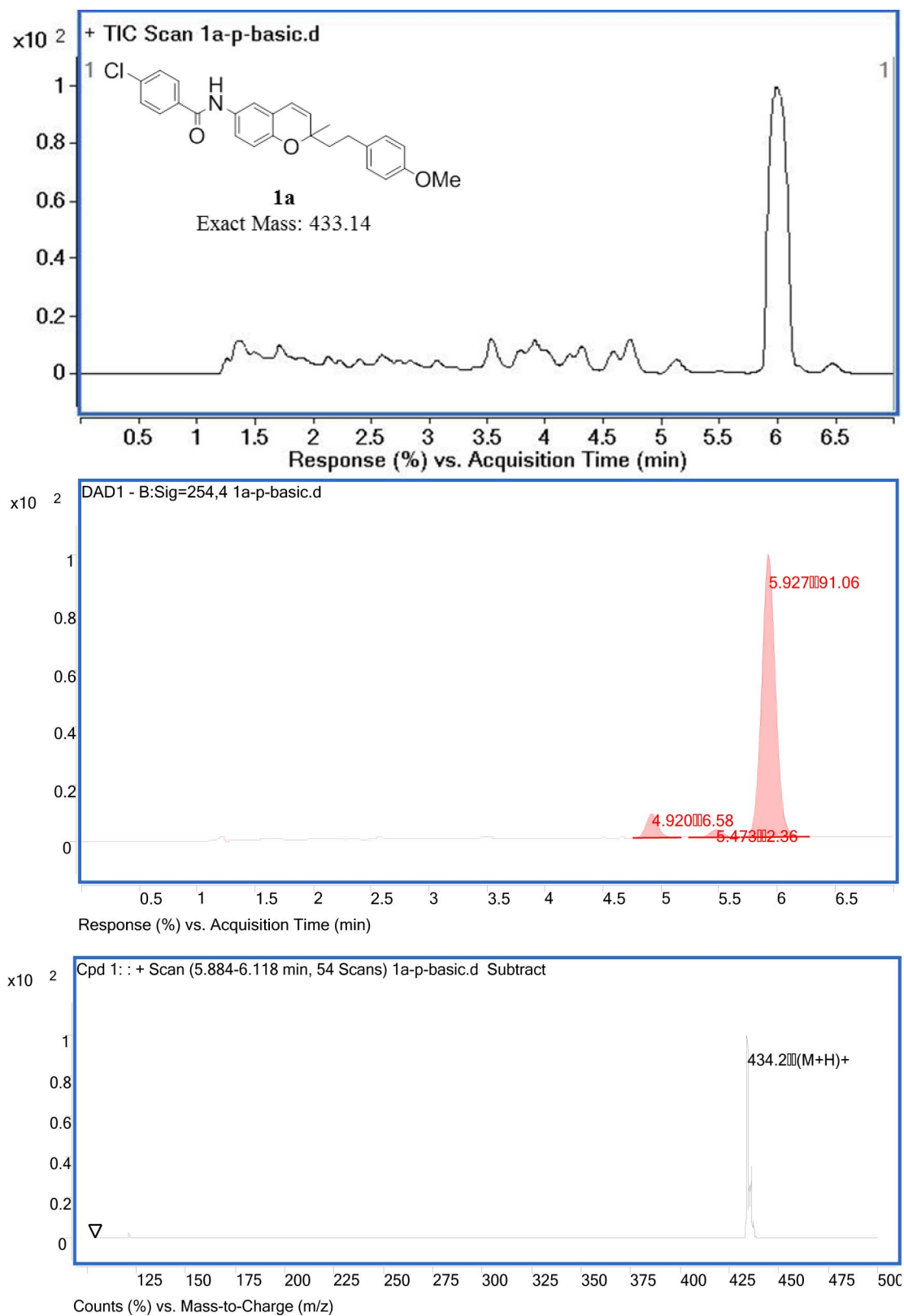
**4-Chloro-*N*-(2-(4-methoxyphenethyl)-2-methyl-2*H*-chromen-6-yl)benzamide 1a.**



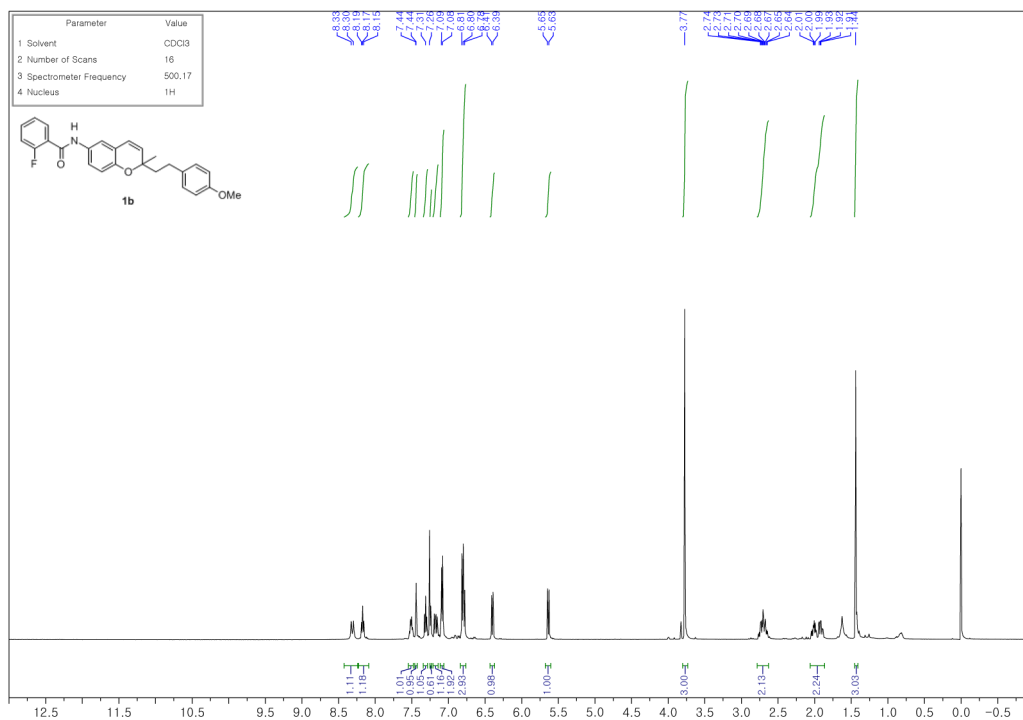
### 1a-<sup>1</sup>H NMR Spectroscopy



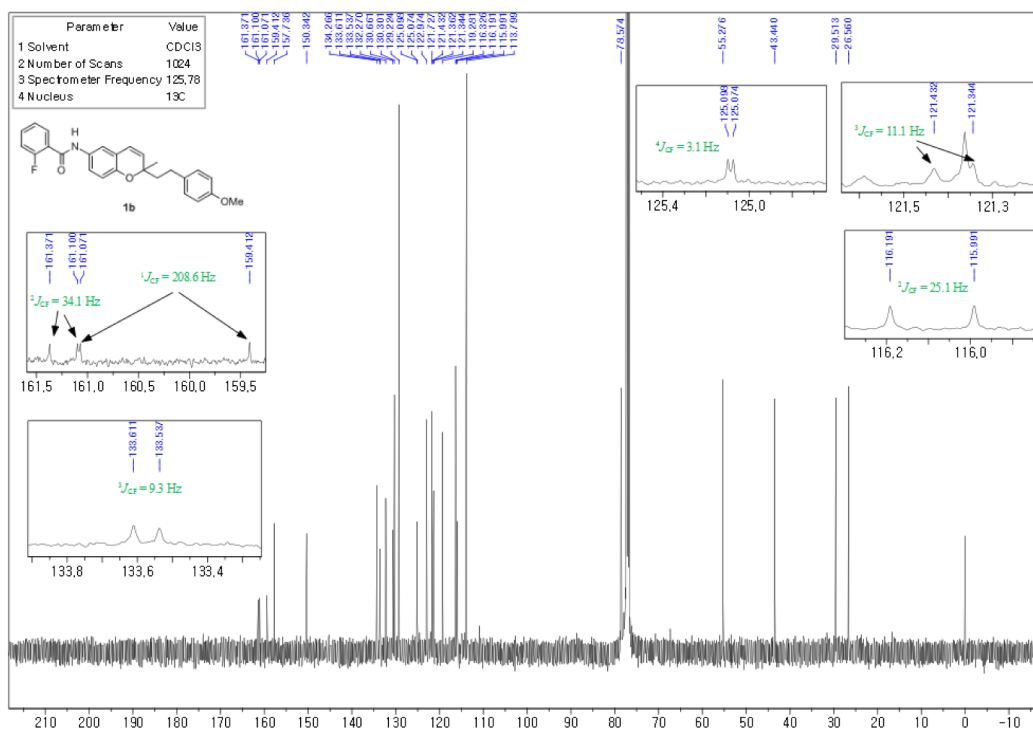
### 1a-<sup>13</sup>C NMR Spectroscopy

**1a-LC/MS/MS Spectroscopy**

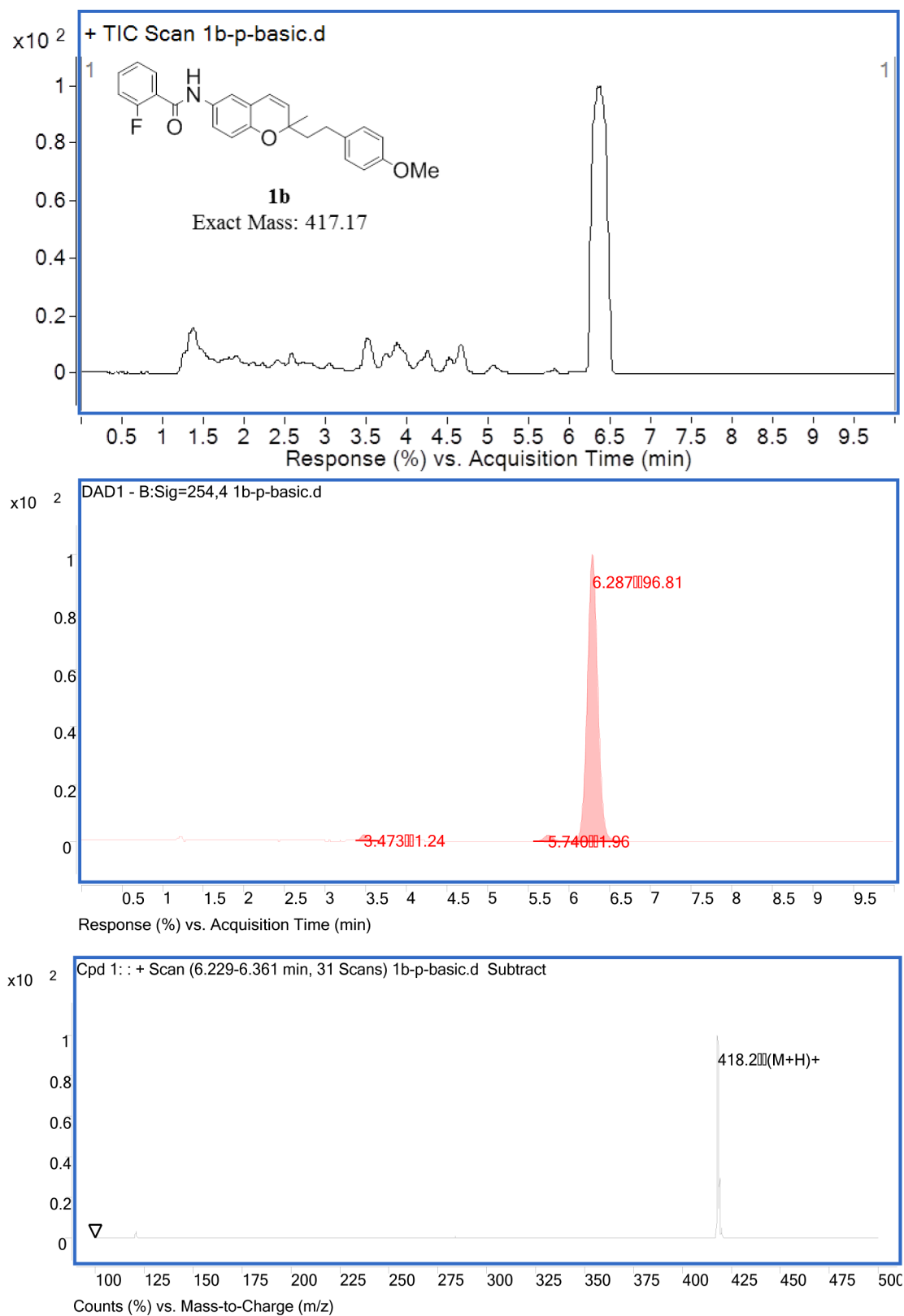
**2-Fluoro-N-(2-(4-methoxyphenethyl)-2-methyl-2*H*-chromen-6-yl)benzamide 1b.**



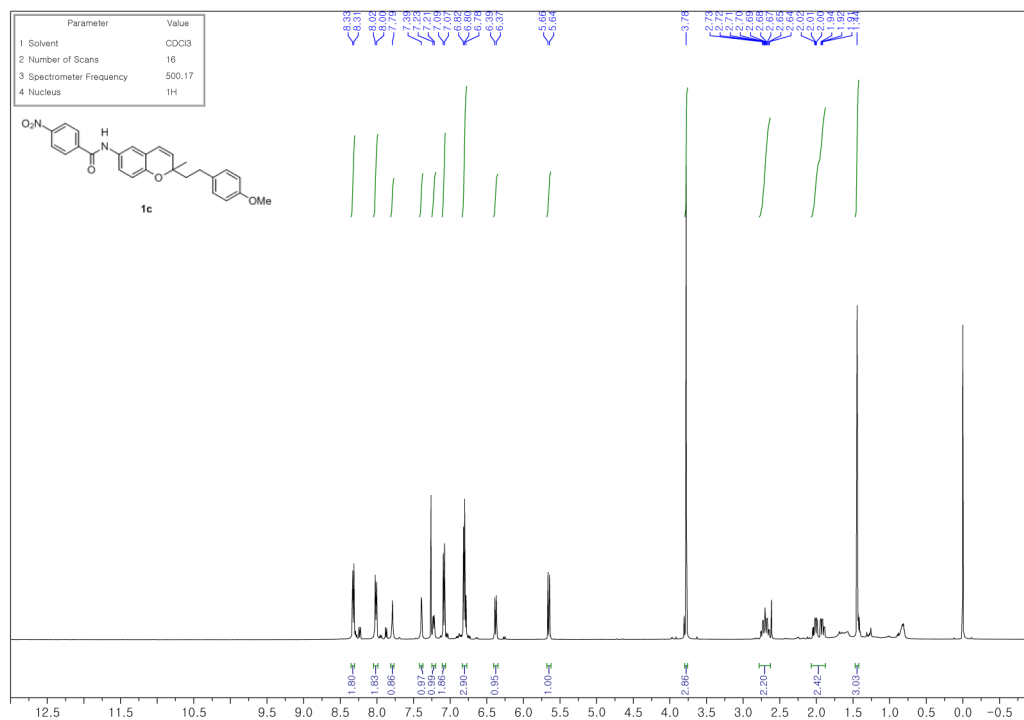
### 1b-<sup>1</sup>H NMR Spectroscopy



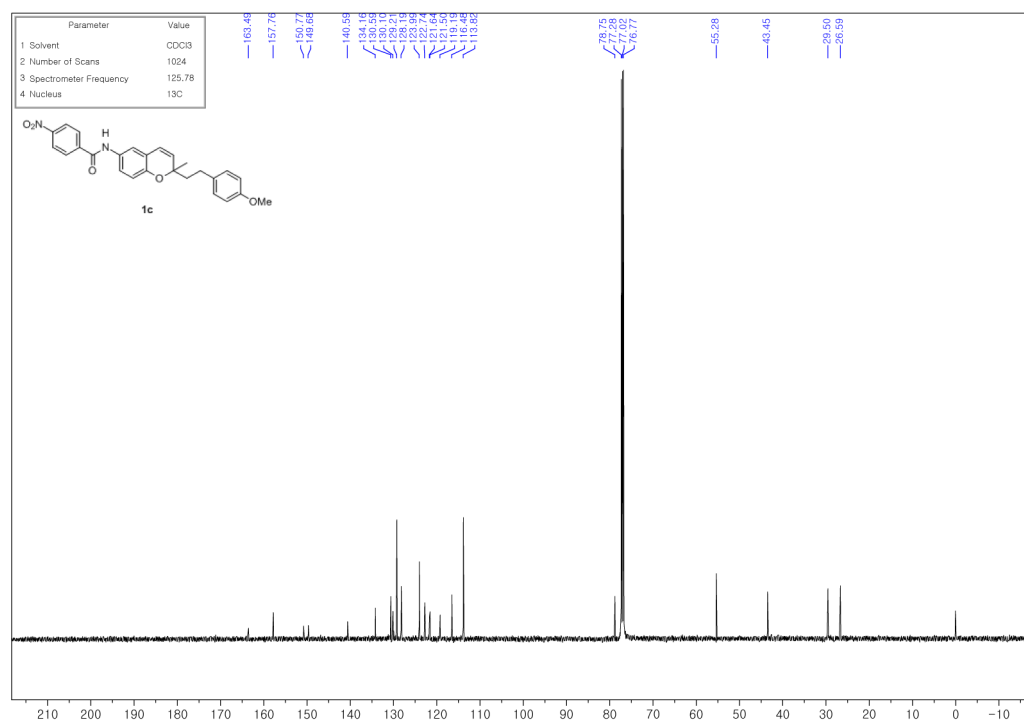
### 1b-<sup>13</sup>C NMR Spectroscopy

**1b-LC/MS/MS Spectroscopy**

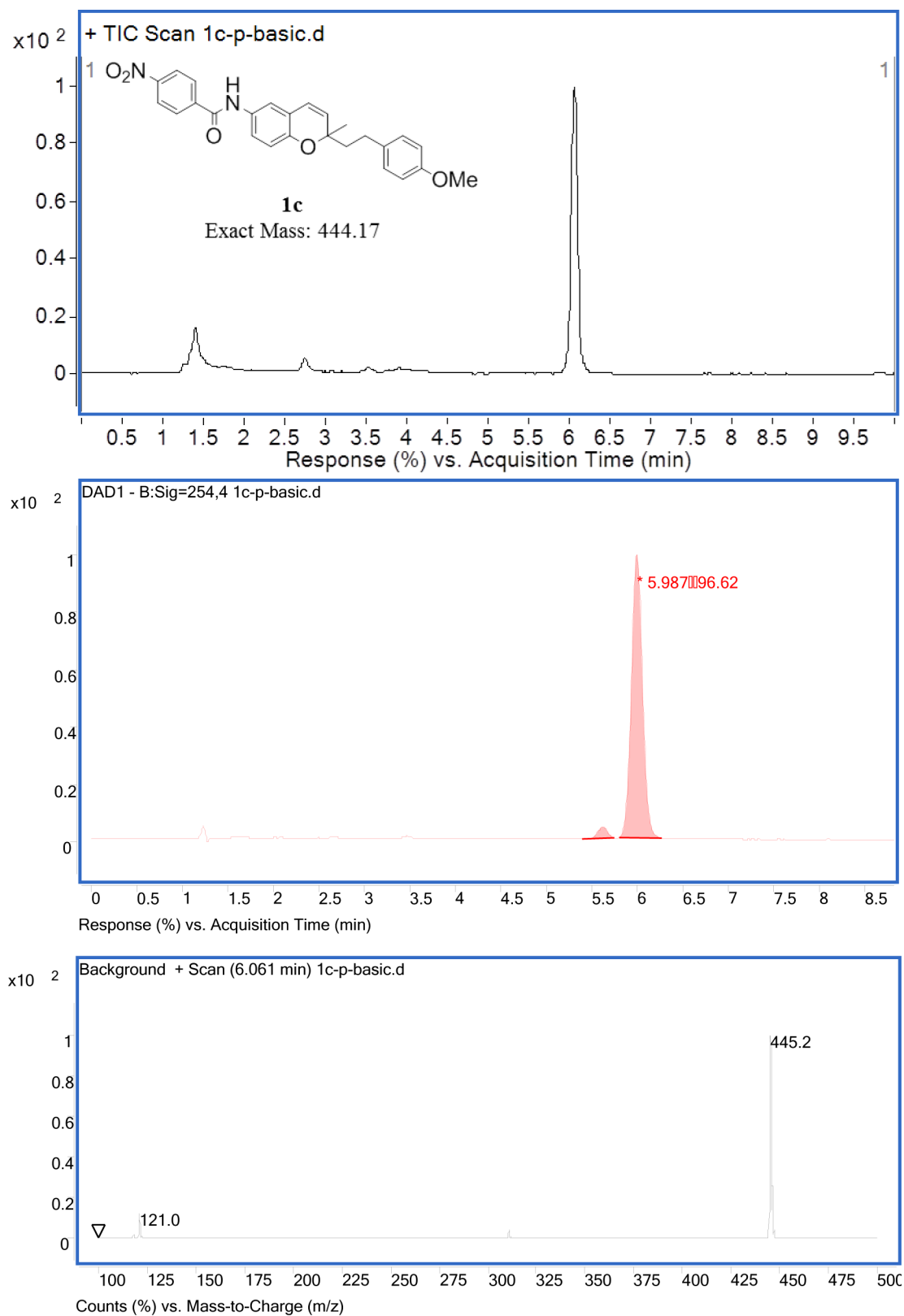
***N*-(2-(4-methoxyphenethyl)-2-methyl-2*H*-chromen-6-yl)-4-nitrobenzamide 1c.**



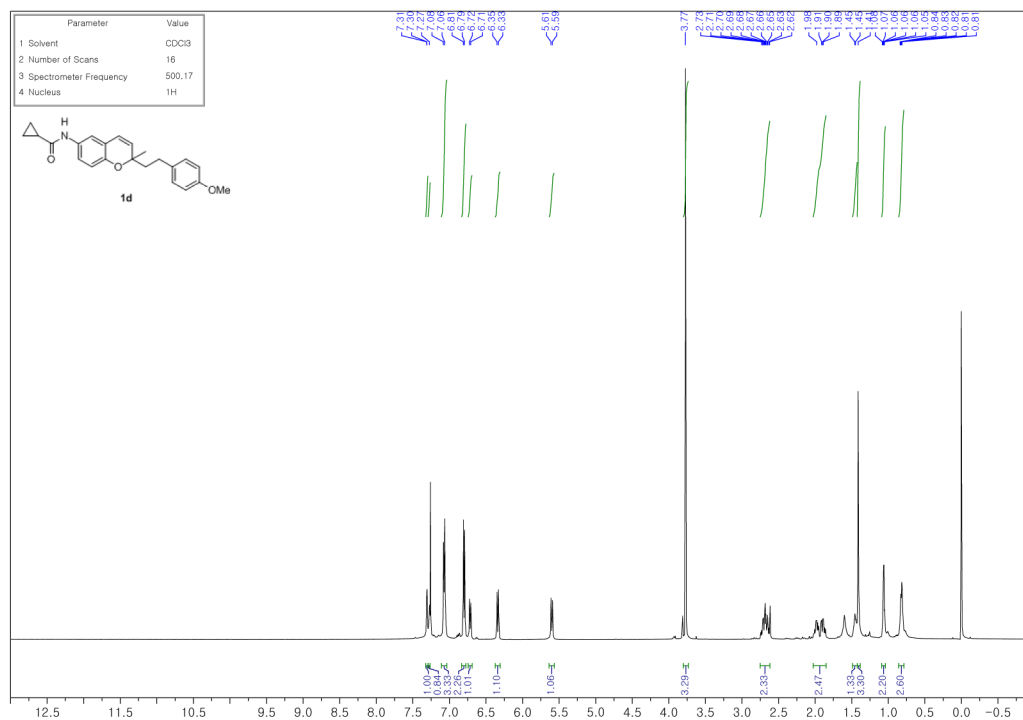
### 1c-<sup>1</sup>H NMR Spectroscopy



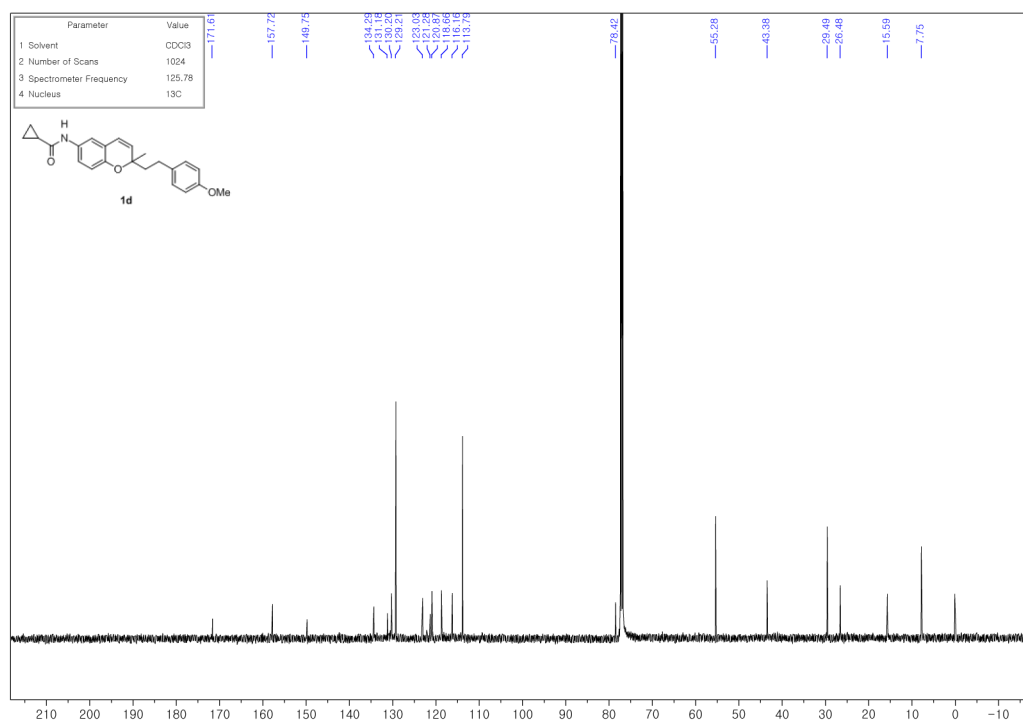
### 1c-<sup>13</sup>C NMR Spectroscopy

**1c-LC/MS/MS Spectroscopy**

***N*-(2-(4-methoxyphenethyl)-2-methyl-2*H*-chromen-6-yl)cyclopropanecarboxamide 1d.**

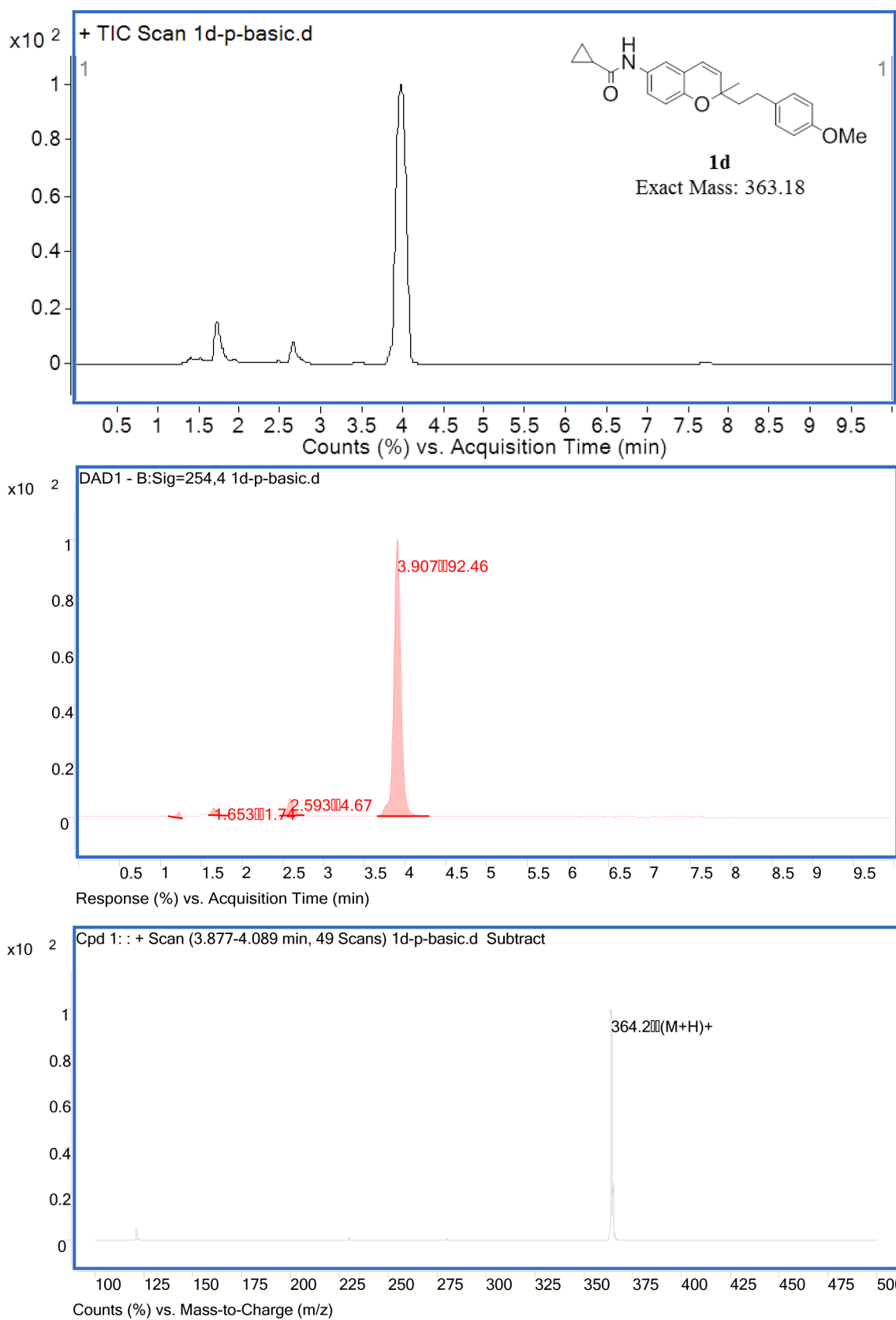


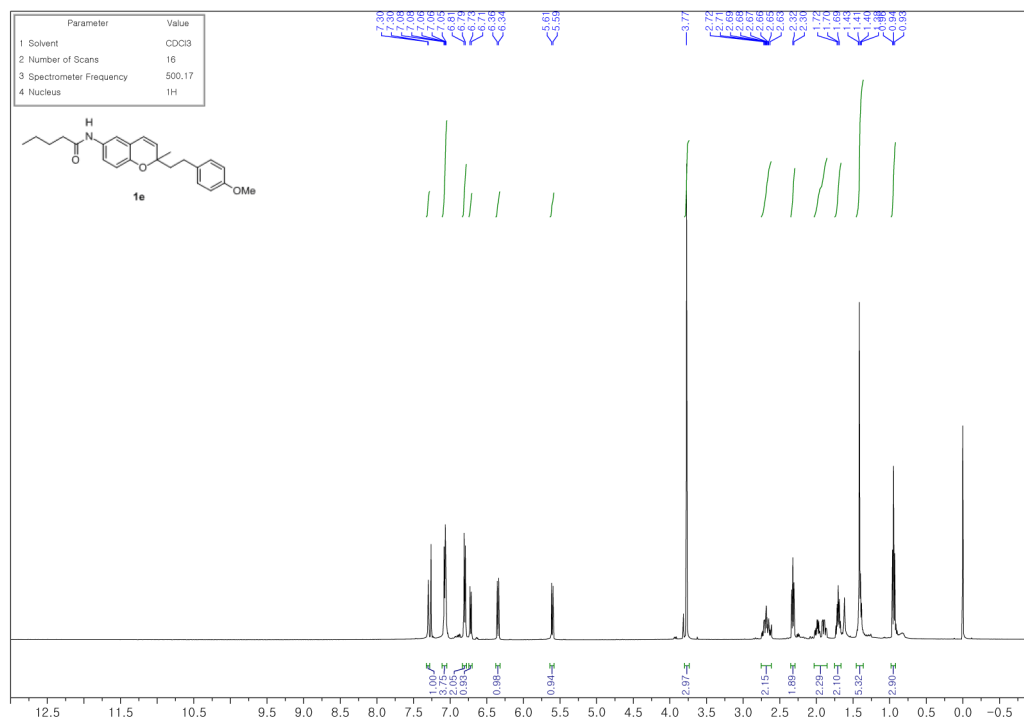
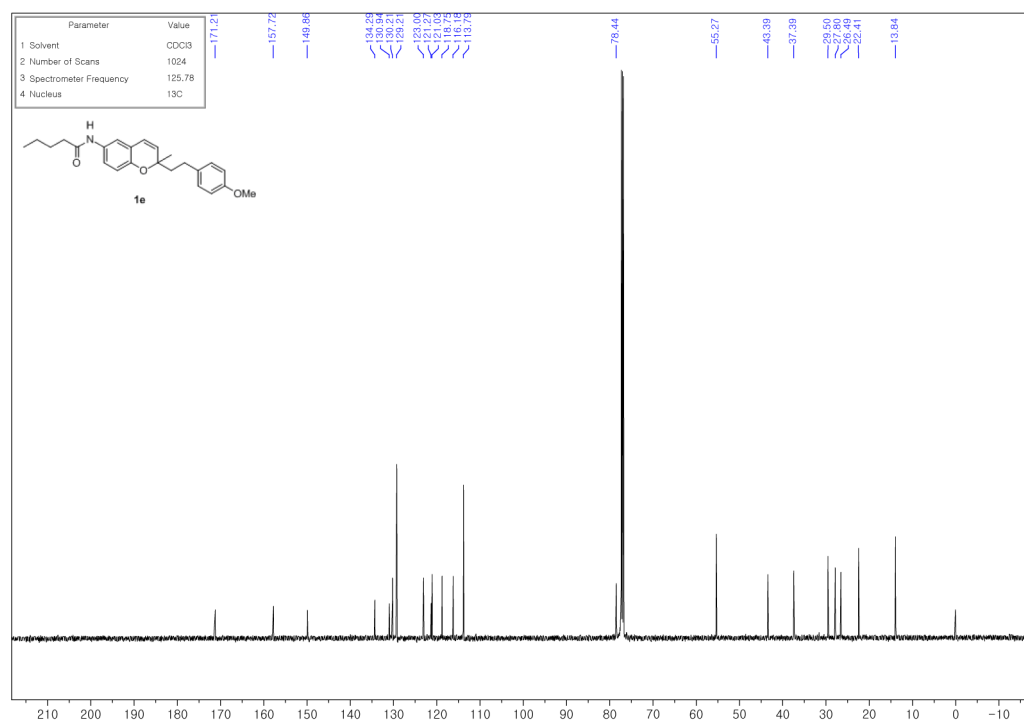
### 1d-<sup>1</sup>H NMR Spectroscopy

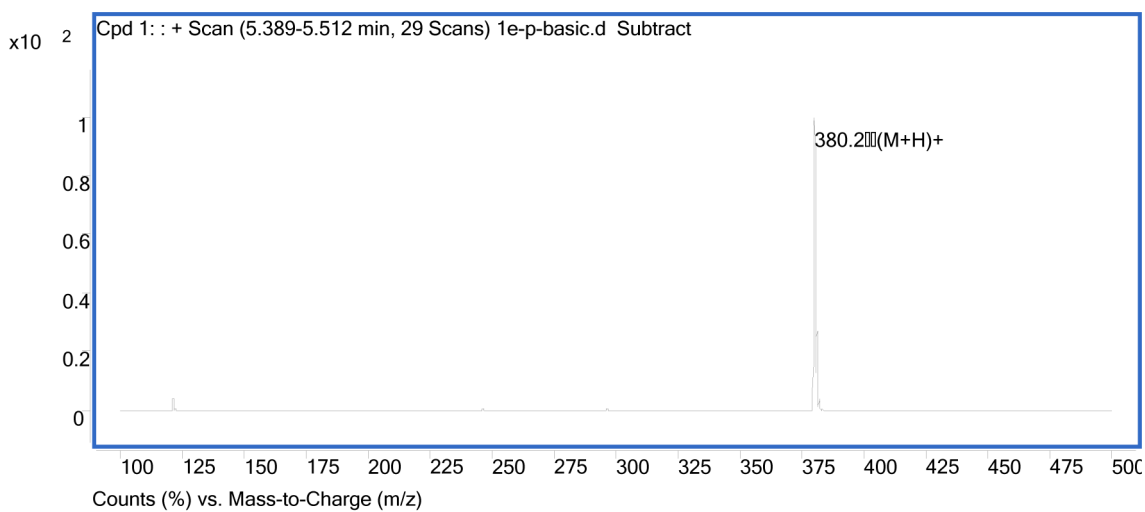
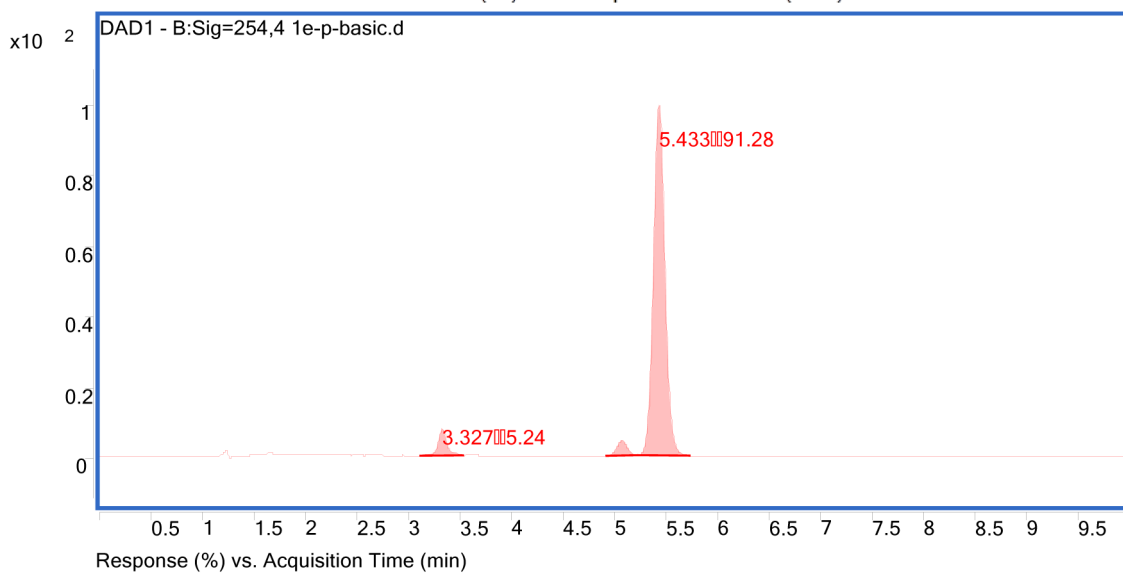
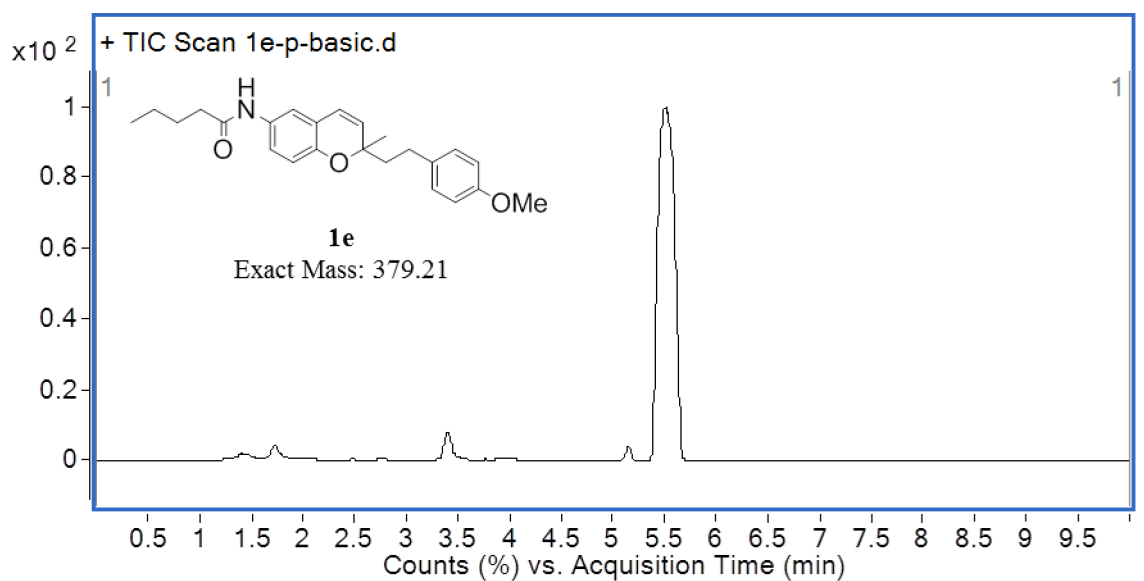


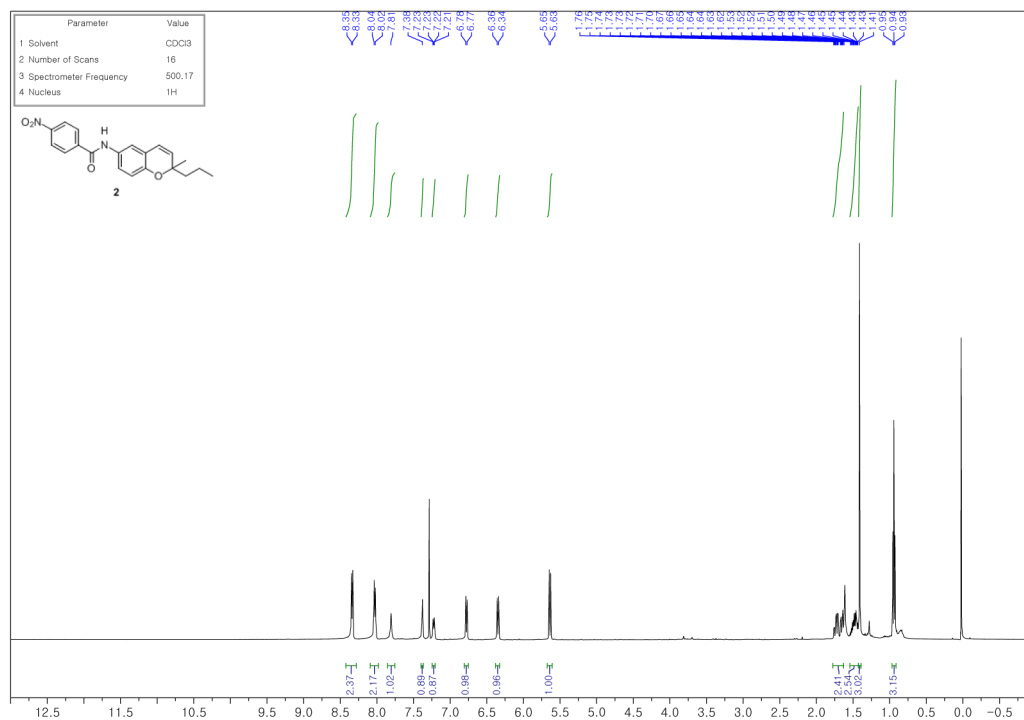
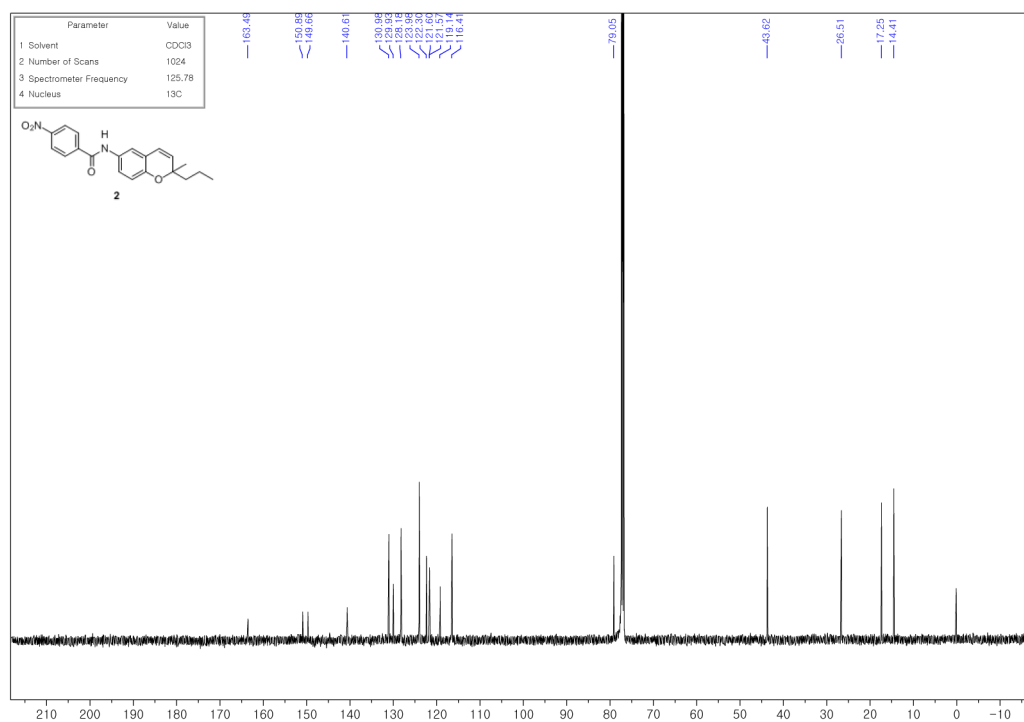
### 1d-<sup>13</sup>C NMR Spectroscopy

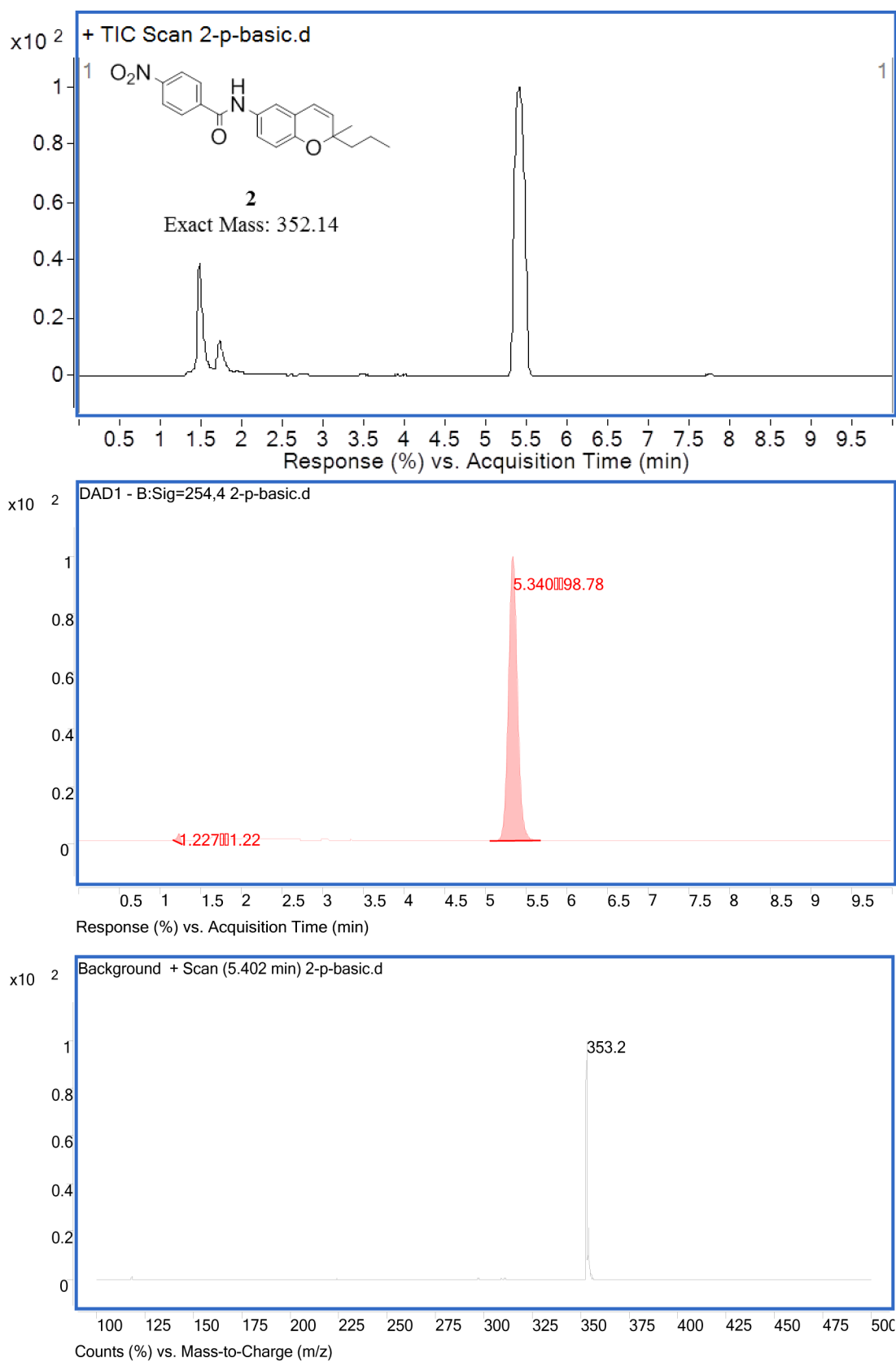


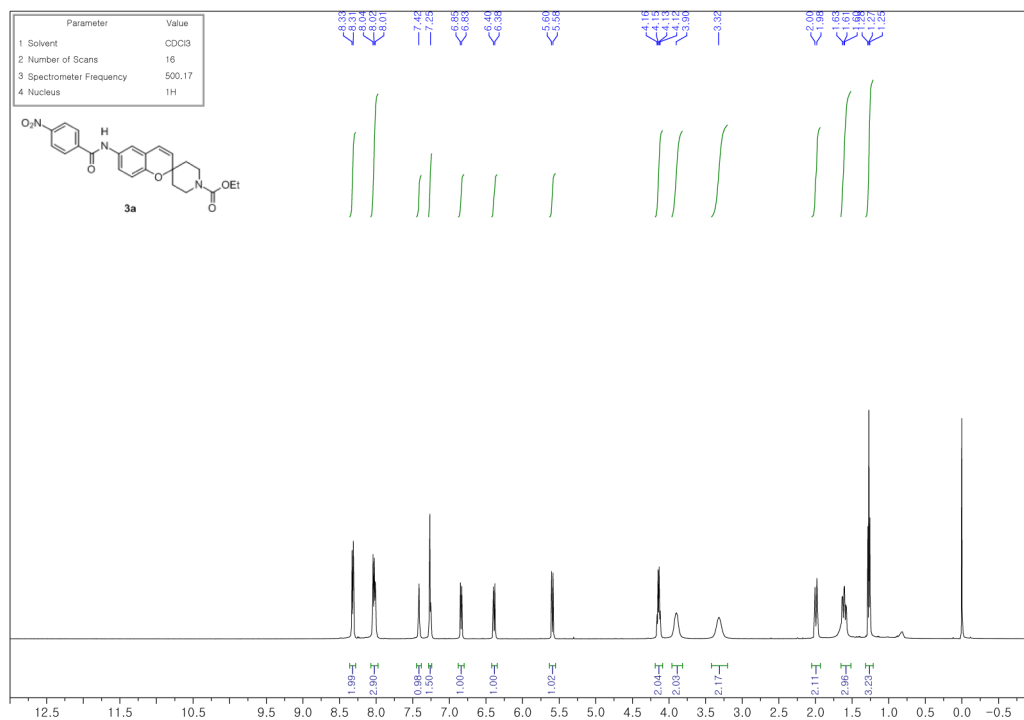
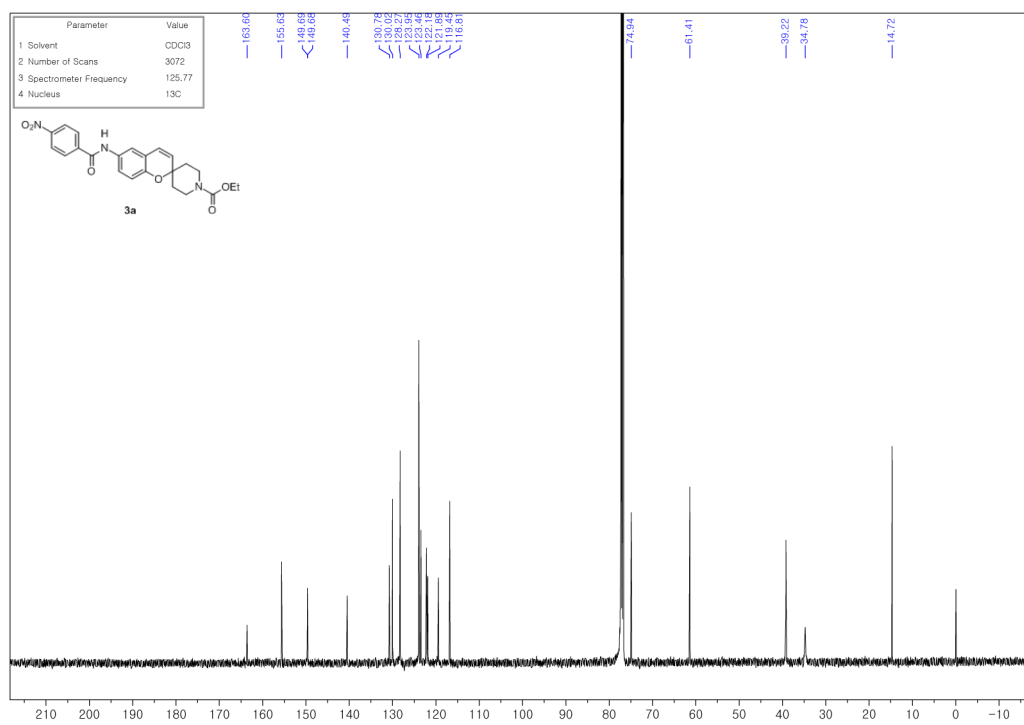
**1d-LC/MS/MS Spectroscopy**

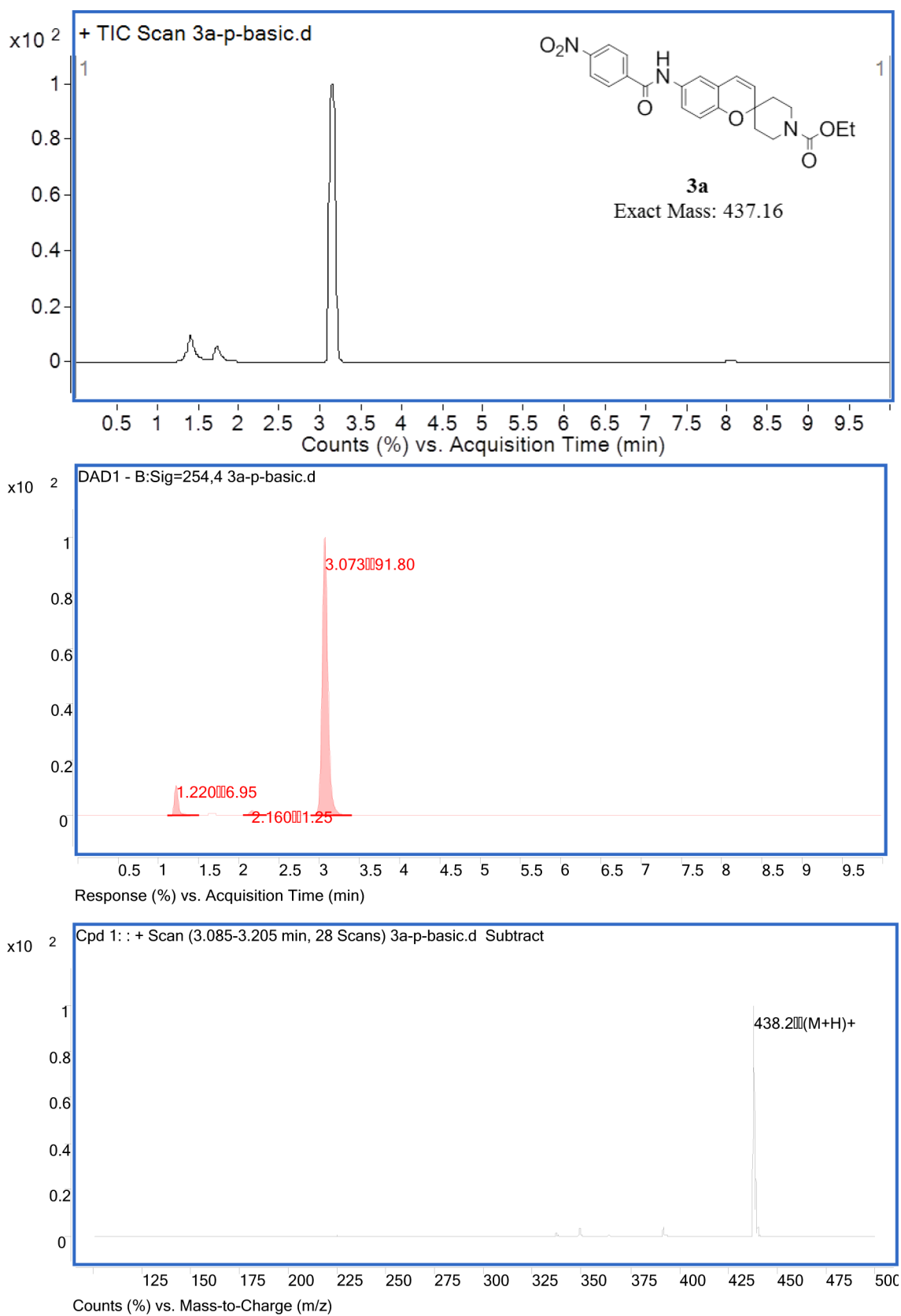
***N*-(2-(4-methoxyphenethyl)-2-methyl-2*H*-chromen-6-yl)pentanamide **1e**.*****1e*-<sup>1</sup>H NMR Spectroscopy*****1e*-<sup>13</sup>C NMR Spectroscopy**

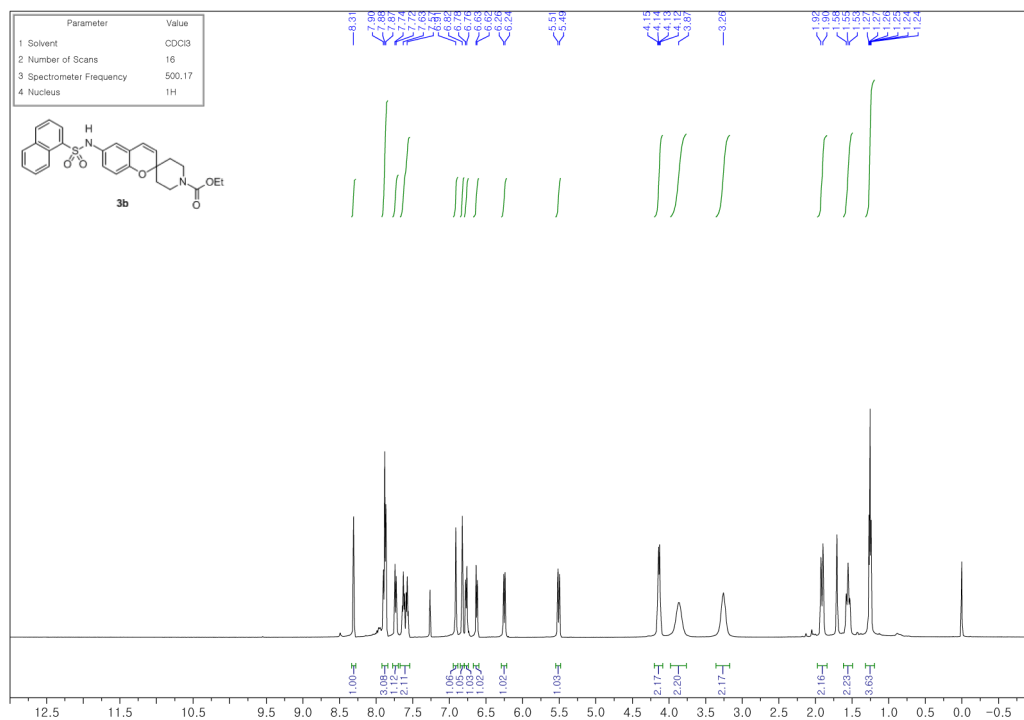
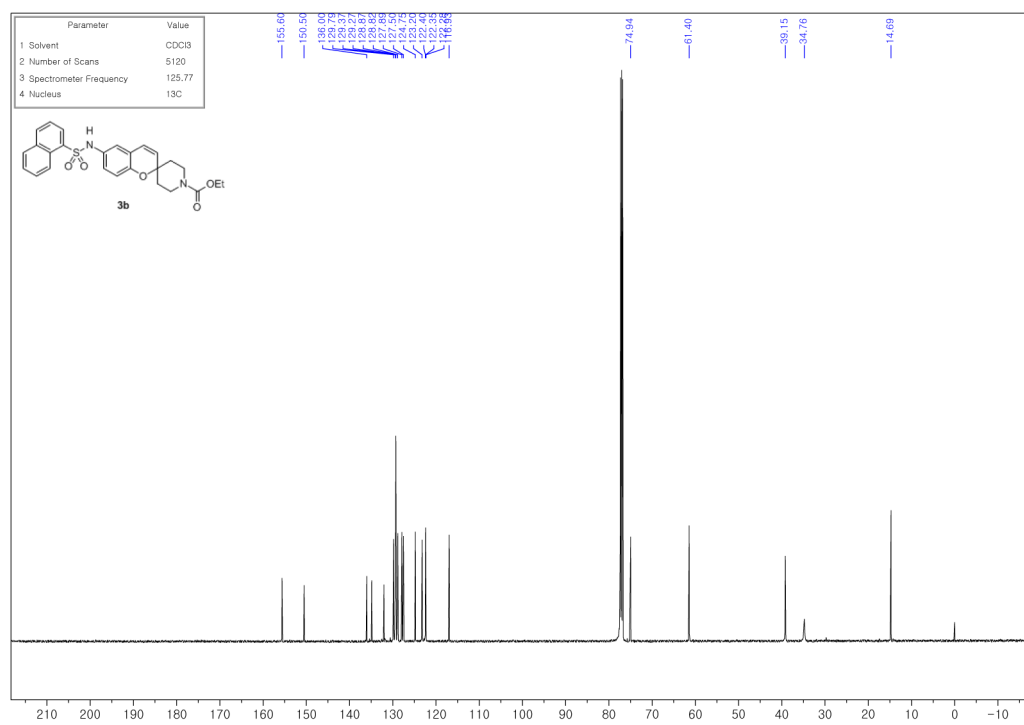
**1e-LC/MS/MS Spectroscopy**

***N*-(2-methyl-2-propyl-2*H*-chromen-6-yl)-4-nitrobenzamide **2**.****<sup>1</sup>H NMR Spectroscopy****<sup>13</sup>C NMR Spectroscopy**

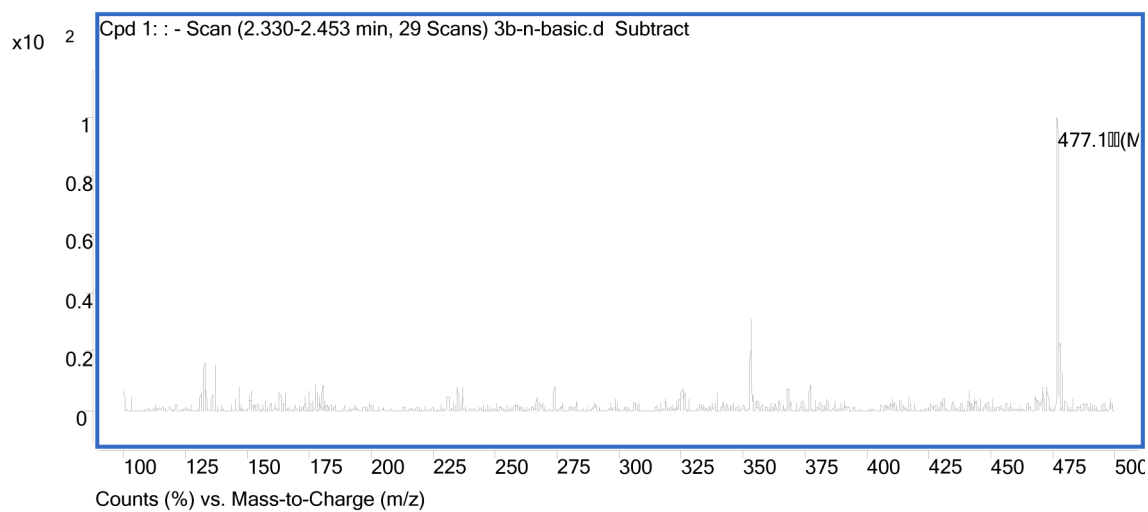
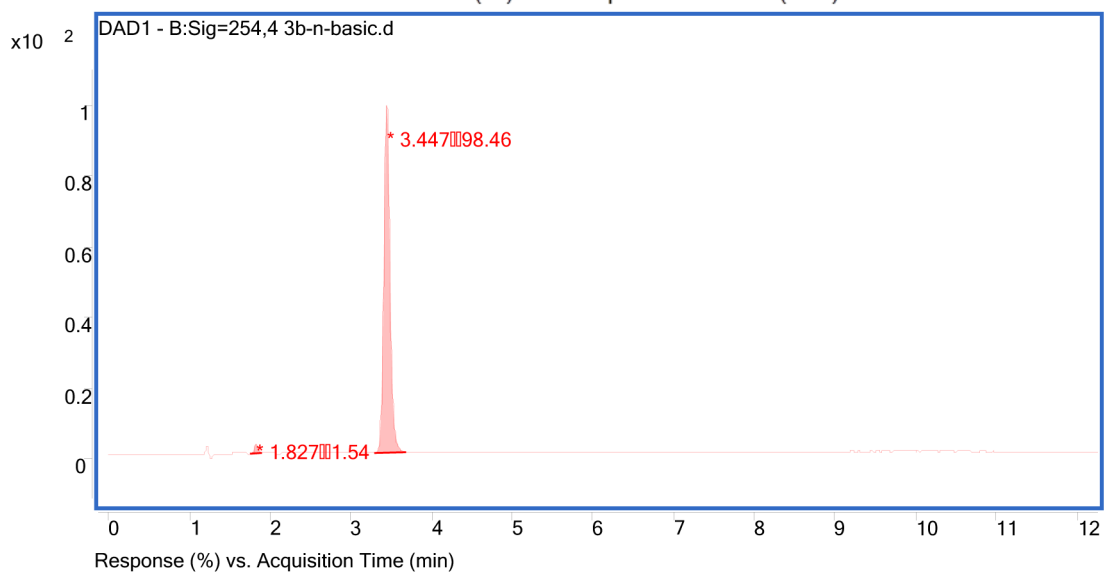
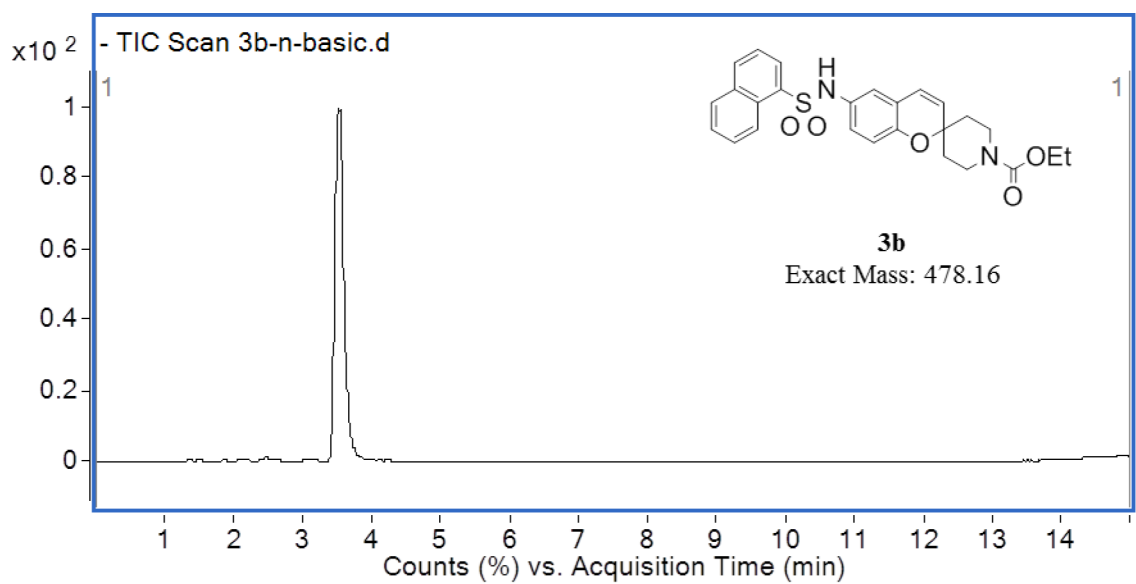
**2-LC/MS/MS Spectroscopy**

**Ethyl piperidine-1'-carboxylate-4'-spiro-2-6-(4-nitrobenzamido)-2*H*-benzopyran 3a.****3a-<sup>1</sup>H NMR Spectroscopy****3a-<sup>13</sup>C NMR Spectroscopy**

**3a-LC/MS/MS Spectroscopy**

**Ethyl piperidine-1'-carboxylate-4'-spiro-2-6-(naphthalene-1-sulfonamido)-2*H*-benzopyran 3b.****3b-<sup>1</sup>H NMR Spectroscopy****3b-<sup>13</sup>C NMR Spectroscopy**



**3b-LC/MS/MS Spectroscopy**