

**Synthesis of novel 5-arylidene-thiazolidinones with apoptotic properties via a three component reaction using piperidine as a bifunctional reagent**

Chandramohan Bathula,<sup>1</sup> Sayantan Tripathi,<sup>2</sup> Ramprasad Srinivasan,<sup>3</sup> Kunal Kumar Jha,<sup>1</sup> Arnab Ganguly,<sup>4</sup> G. Chakraborty,<sup>4</sup> Shailja Singh,<sup>2</sup> Parthapratim Munshi,<sup>1</sup> Subhabrata Sen\*<sup>1</sup>

<sup>1</sup> Department of Chemistry, School of Natural Sciences, Shiv Nadar University, Chithera, Dadri, Gautam Budh Nagar, Uttar Pradesh 201308, India

<sup>2</sup> Department of Life Science, School of Natural Sciences, Shiv Nadar University, Chithera, Dadri, Gautam Budh Nagar, Uttar Pradesh 201308, India

<sup>3</sup> Shantani, 100 NCL Innovation Park, Dr. Homi Bhabha Road, Pune - 411 008, India

<sup>4</sup> Department of Biotechnology And Dr. B. C. Guha Centre for Genetic, Engineering And Biotechnology, University of Calcutta  
35 Ballygunge Circular Road, Kolkata, WB 700 019, India.

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1. Melting Points of compound **17a-o**

<b>Compounds</b>	<b>Melting Points</b>
<b>17a</b>	152-154 °C
<b>17b</b>	245-247 °C
<b>17c</b>	198-200 °C
<b>17d</b>	139-141 °C
<b>17e</b>	240-242 °C
<b>17f</b>	210-212 °C
<b>17g</b>	228-230 °C
<b>17h</b>	195-197 °C
<b>17i</b>	155-157 °C
<b>17j</b>	157-159 °C
<b>17k</b>	137-139 °C
<b>17l</b>	142-144 °C
<b>17m</b>	165-167 °C
<b>17n</b>	184-186 °C
<b>17o</b>	210-212 °C

2. HPLC purity of compounds **17a-o**

HPLC of samples **17a-o**, were executed in Waters e2695 (Separating module), equipped with 2998 PDA detector and prepared at a concentration level of 500 ppm and 10 µl is injected for the purity analysis. ACN and 0.1% Formic Acid-H<sub>2</sub>O is used as mobile phase in ECLIPSE PLUS C18 (4.6 X 50 mm) 3.5 µM column.

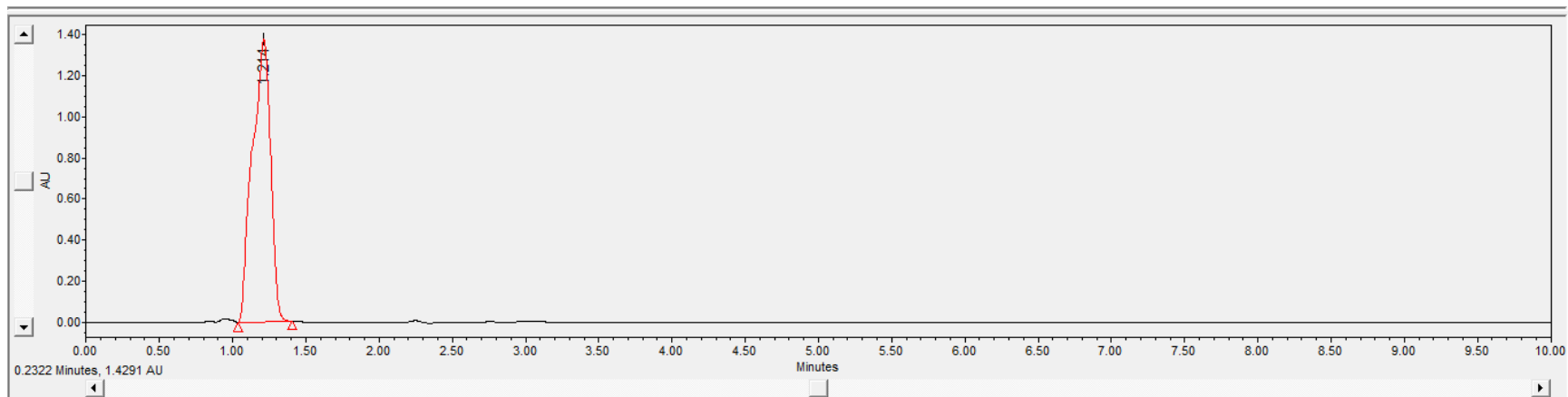
<b>Compounds</b>	<b>HPLC purity (%)</b>
<b>17a</b>	~100
<b>17b</b>	~100
<b>17c</b>	96.6
<b>17d</b>	~100
<b>17e</b>	~100
<b>17f</b>	~100
<b>17g</b>	98.9
<b>17h</b>	~100
<b>17i</b>	~100
<b>17j</b>	98.2
<b>17k</b>	~100
<b>17l</b>	~100
<b>17m</b>	99.5
<b>17n</b>	99.5
<b>17o</b>	~100

Solvent gradient

Time in Minutes	Flow ml/min	% of solvent 0.1 % HCOOH in water	% of solvent Acetonitrile (ACN)
1	0.50	50	50
2      3	0.50	20	80
3      6	0.50	20	80
4      8	0.50	50	50

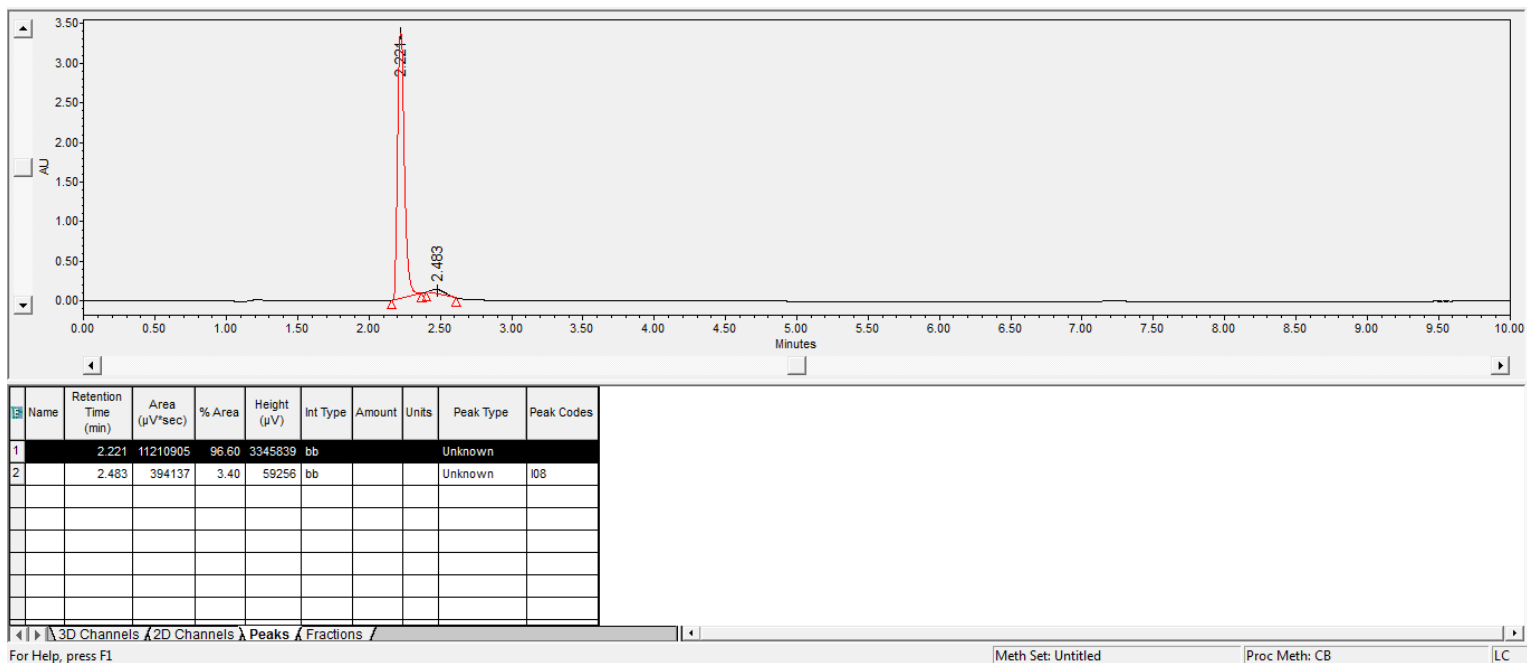


# Compound 17b

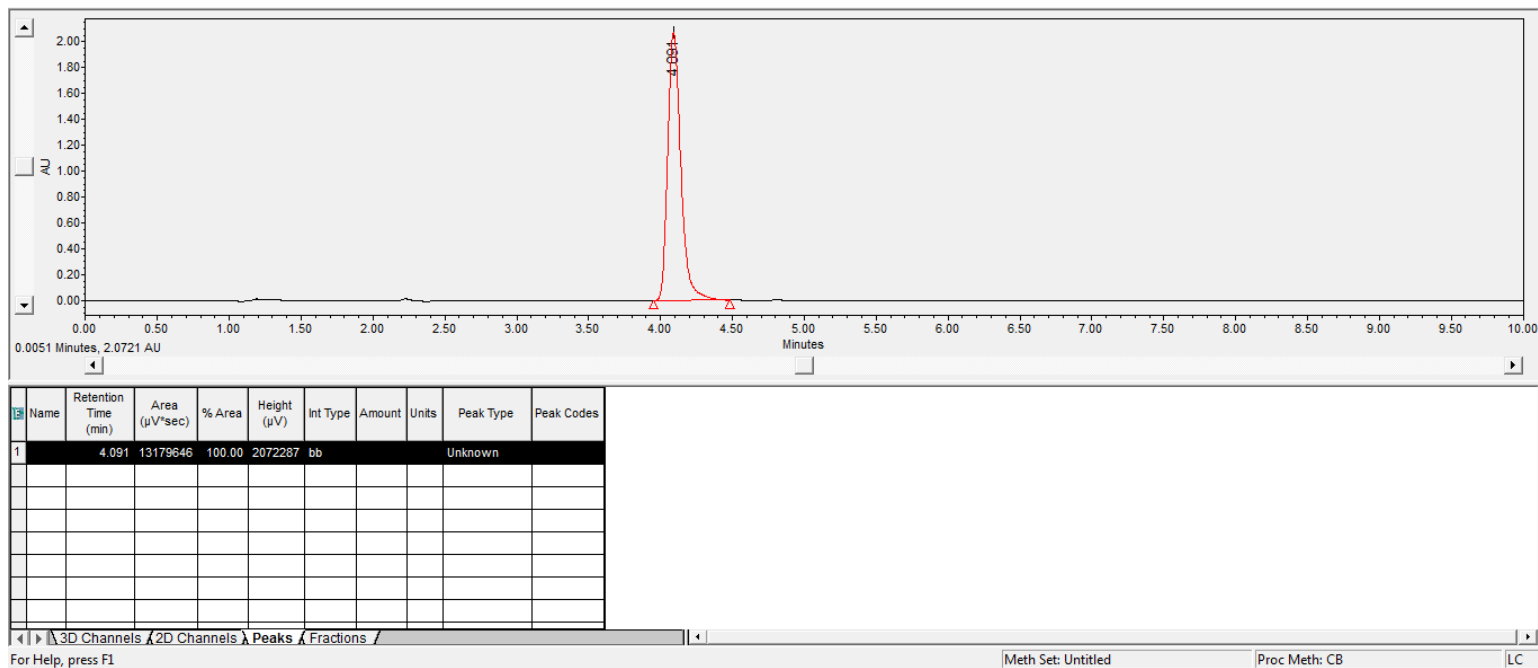


Name	Retention Time (min)	Area ( $\mu\text{V}\cdot\text{sec}$ )	% Area	Height ( $\mu\text{V}$ )	Int Type	Amount	Units	Peak Type	Peak Codes
1	1.214	11954417	100.00	1376867	bb			Unknown	

# Compound 17c

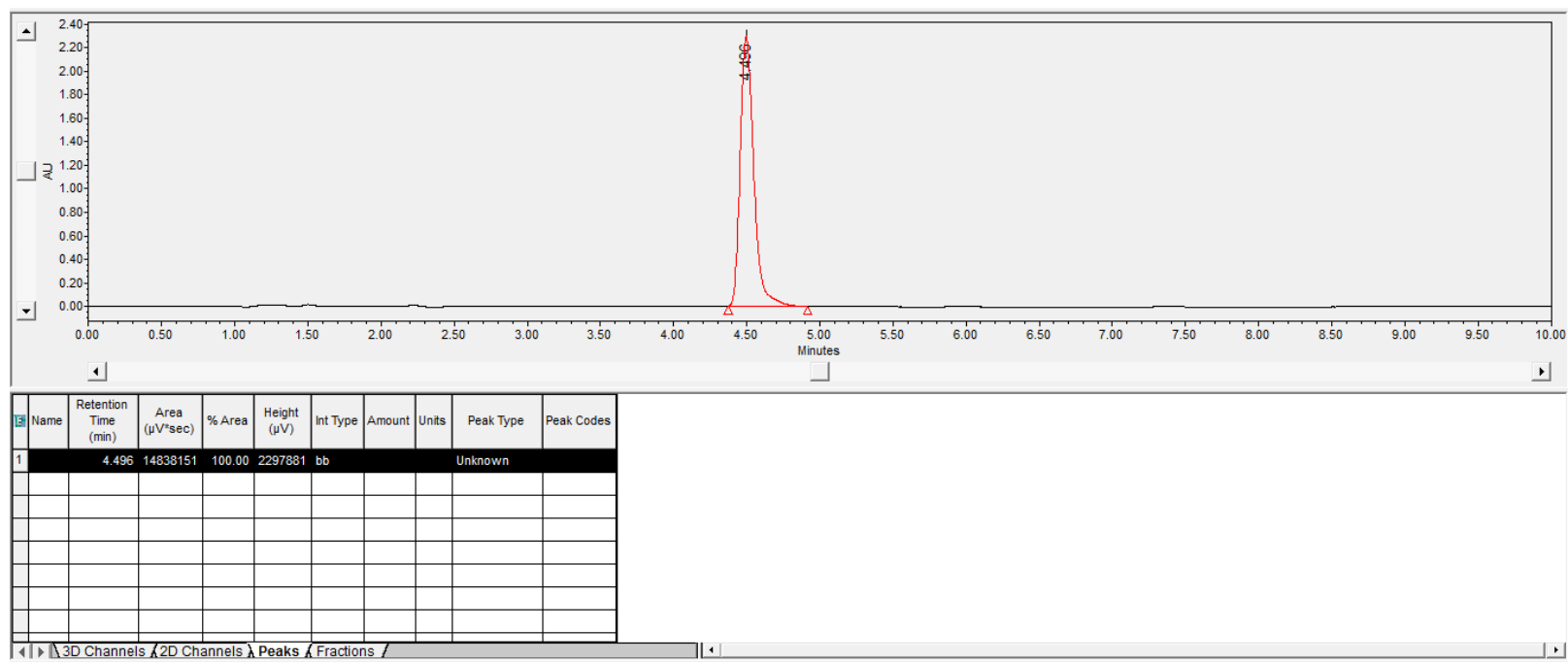


# Compound 17d

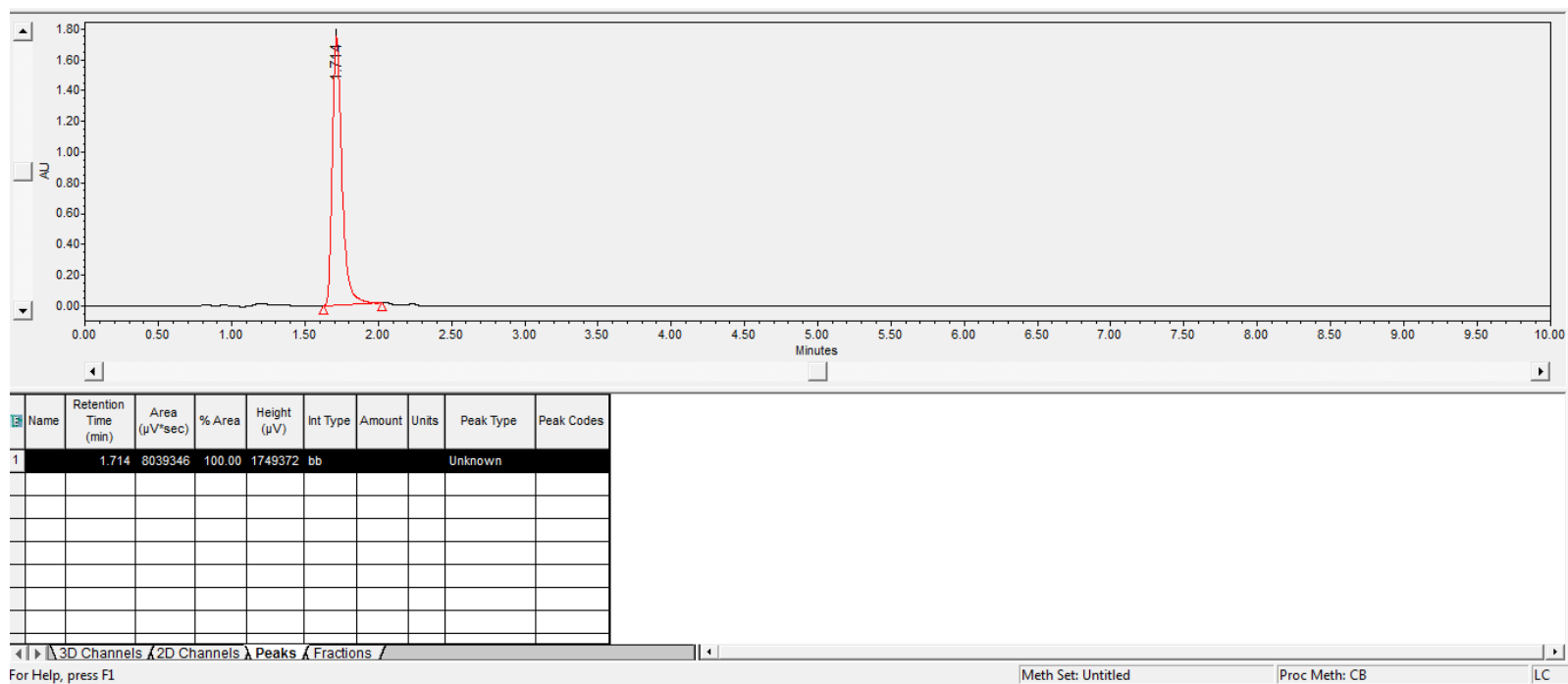




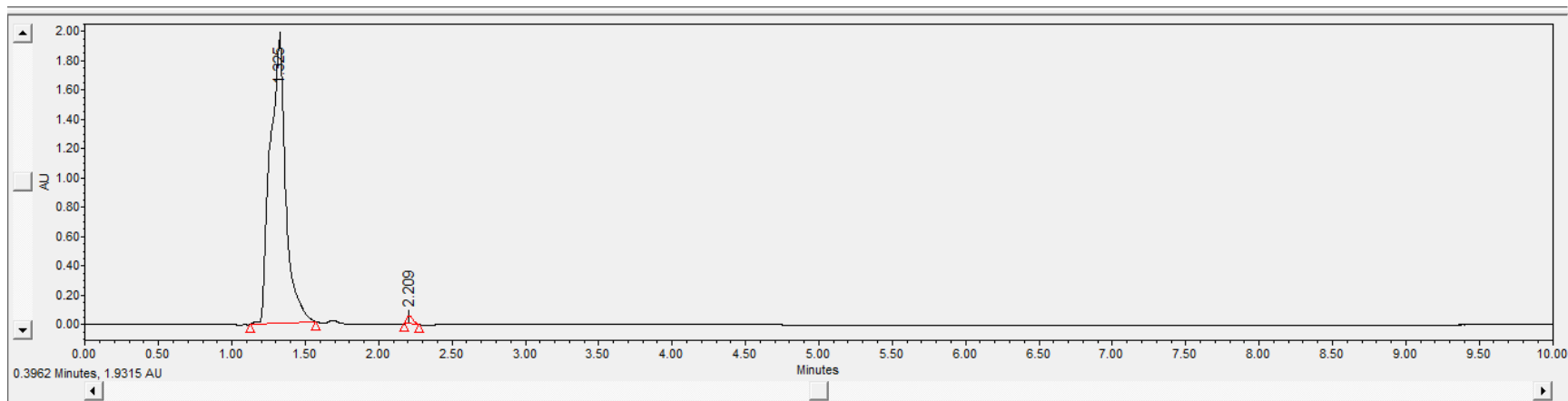
# Compound 17e



# Compound 17f

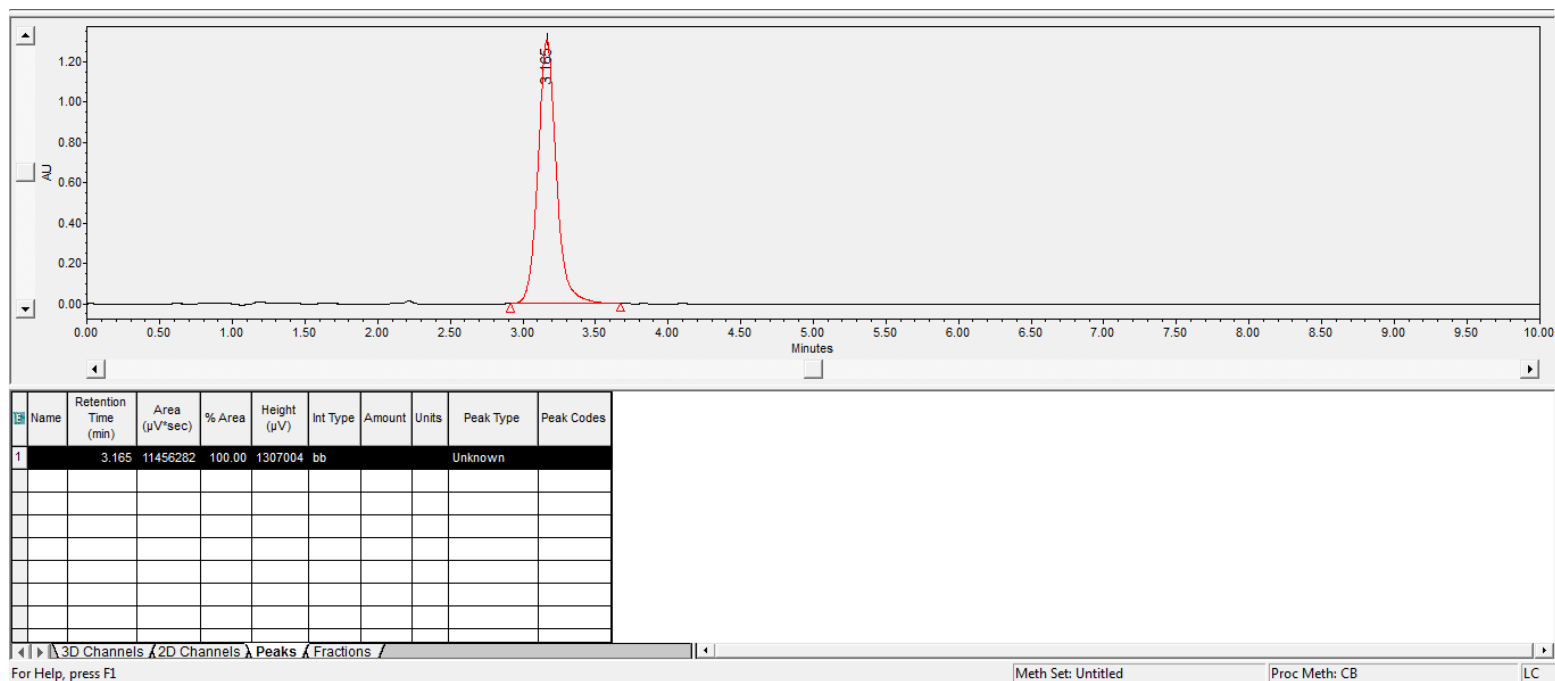


# Compound 17g

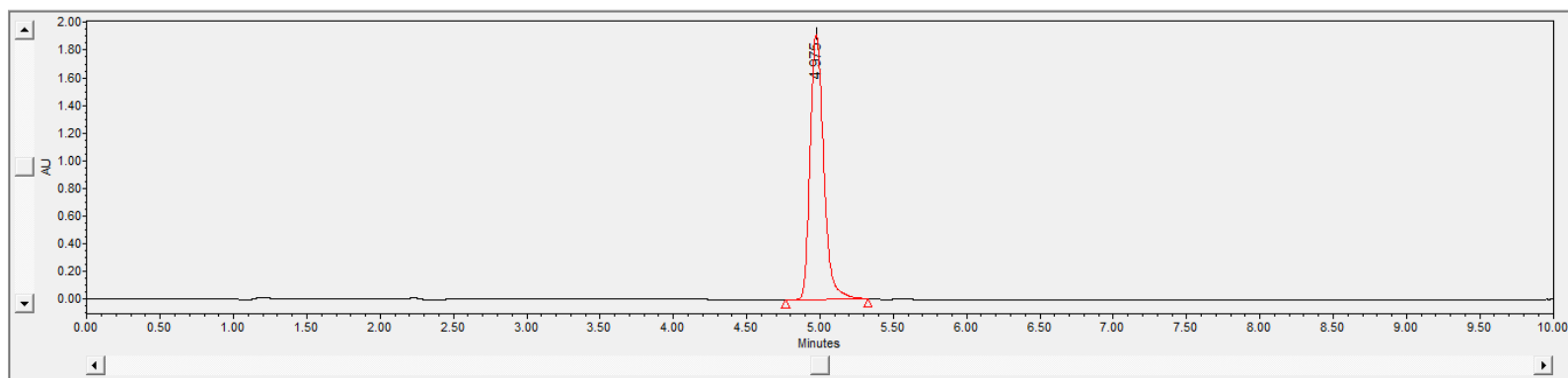


Name	Retention Time (min)	Area (μV*sec)	% Area	Height (μV)	Int Type	Amount	Units	Peak Type	Peak Codes
1	1.325	14374128	98.93	1940553	bb			Unknown	
2	2.209	155494	1.07	54664	bb			Unknown	

# Compound 17h

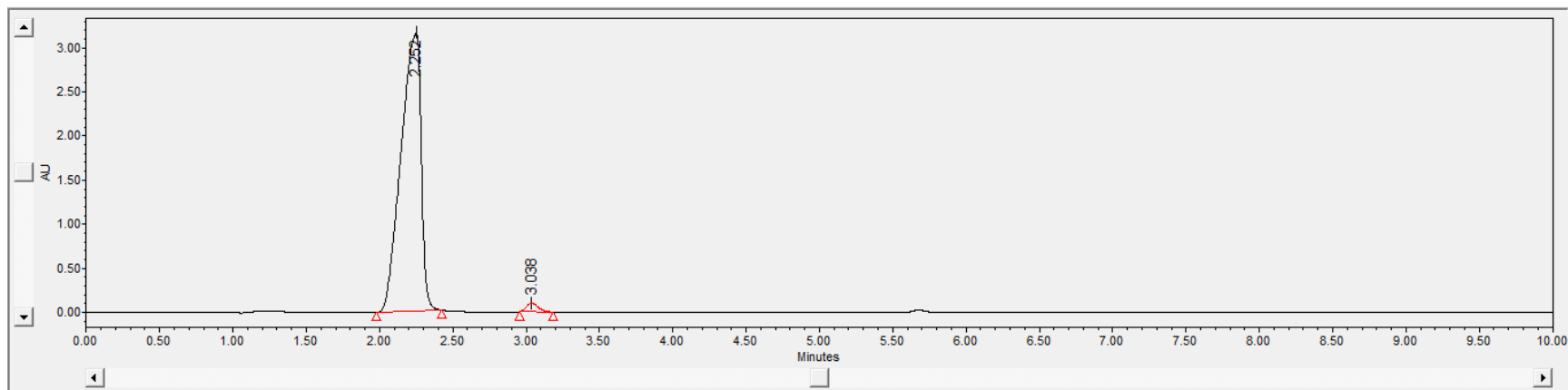


# Compound 17i



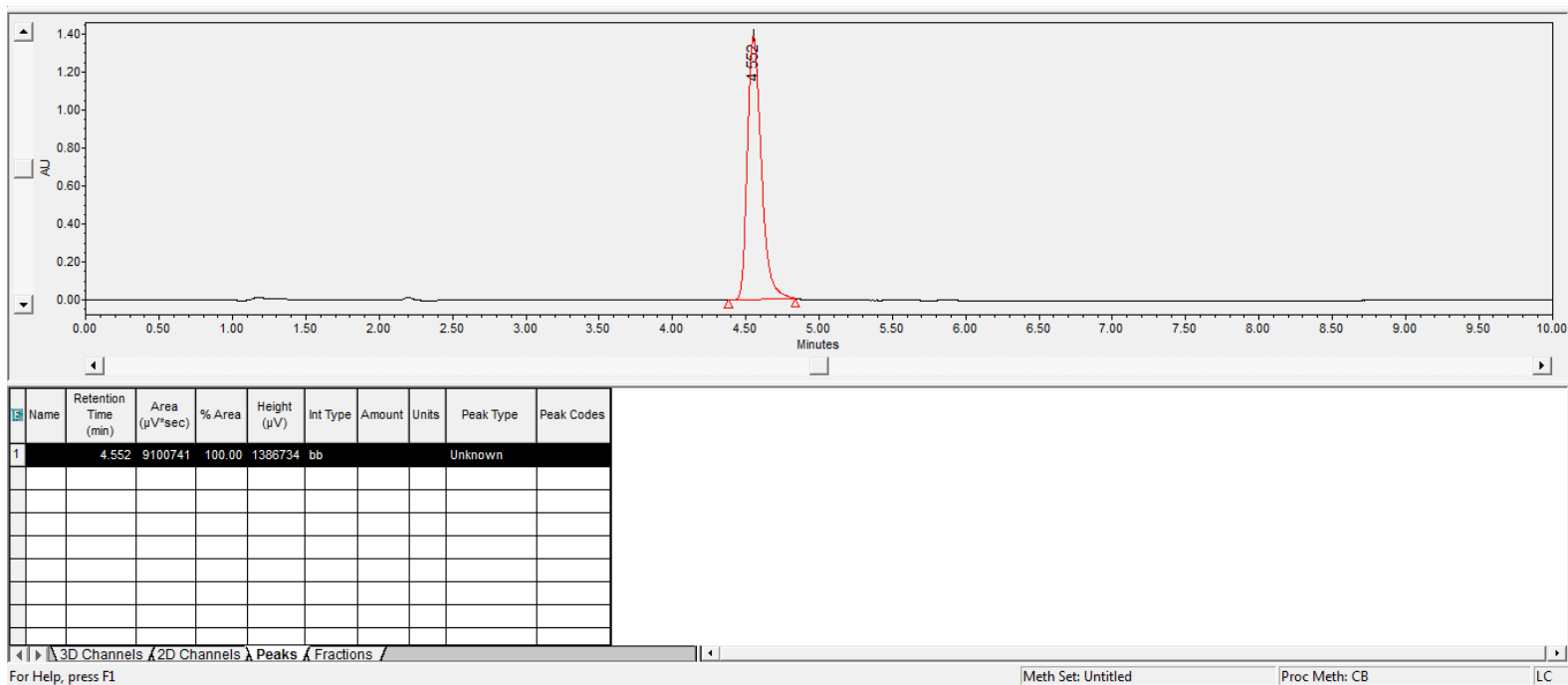
Name	Retention Time (min)	Area (μV*sec)	% Area	Height (μV)	Int Type	Amount	Units	Peak Type	Peak Codes
1	4.975	12240620	100.00	1914224	bb			Unknown	

# Compound 17j

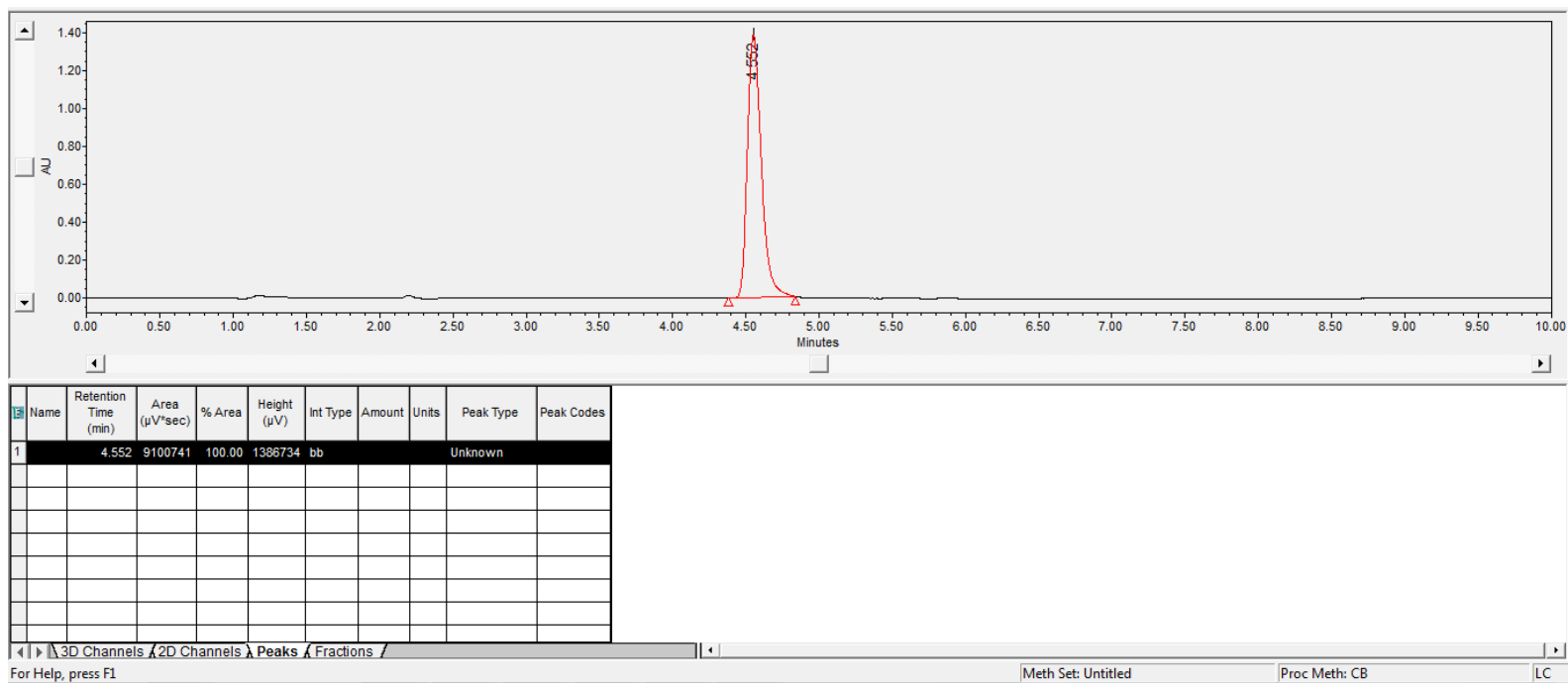


Name	Retention Time (min)	Area (μV*sec)	% Area	Height (μV)	Int Type	Amount	Units	Peak Type	Peak Codes
1	2.252	29984293	98.18	3156908	bb			Unknown	
2	3.038	556599	1.82	100411	bb			Unknown	

# Compound 17k

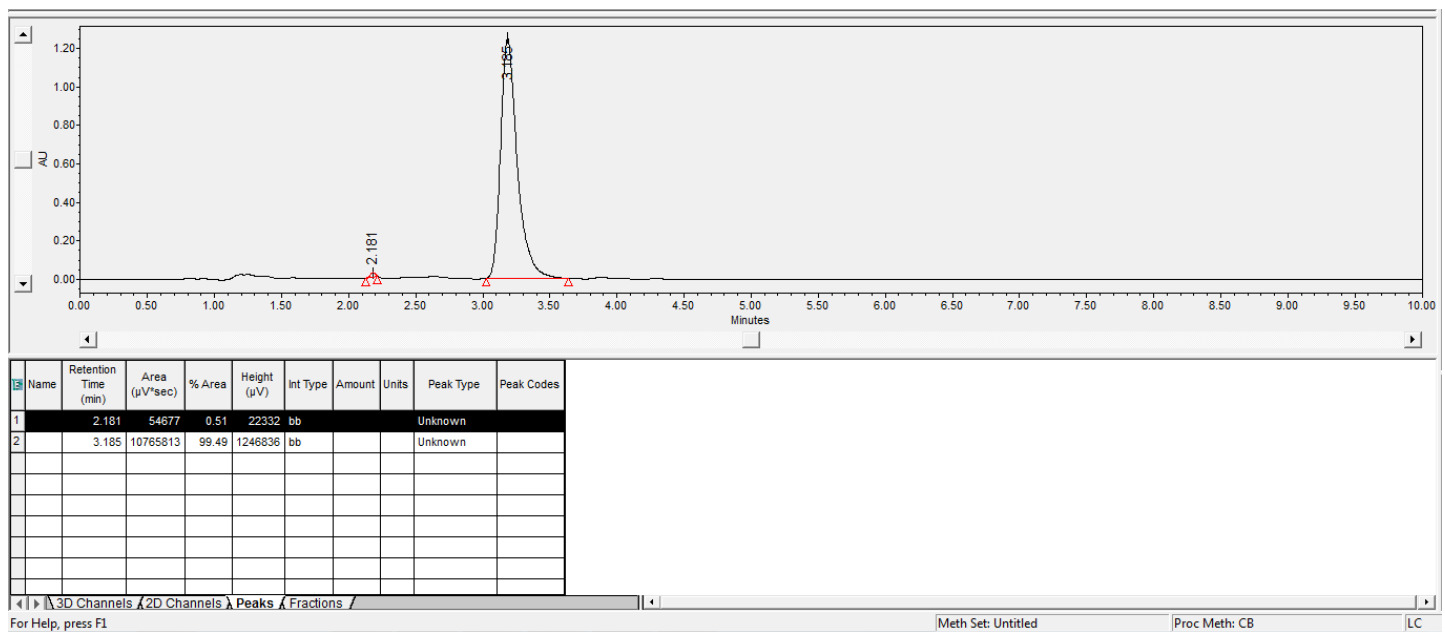


# Compound 171

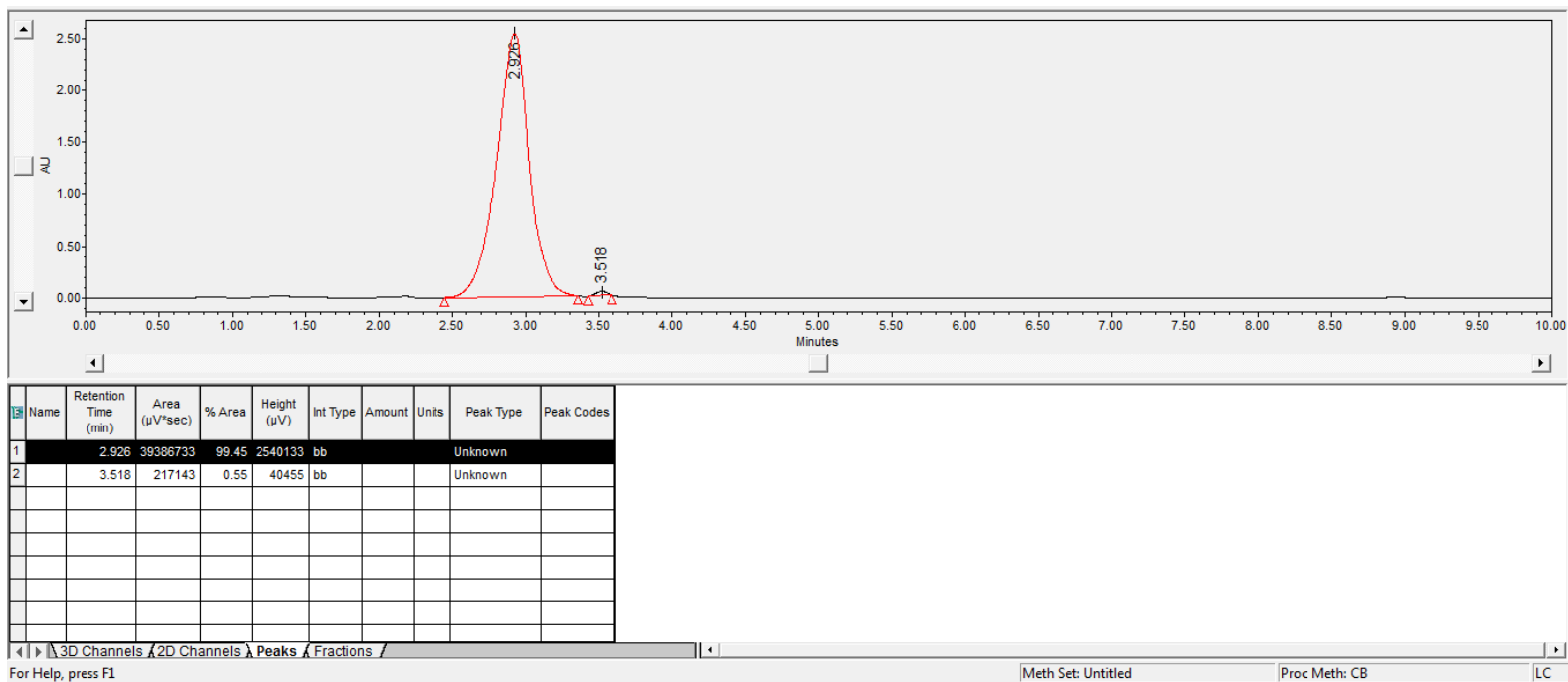




# Compound 17m



# Compound 17n



# Compound 17o

