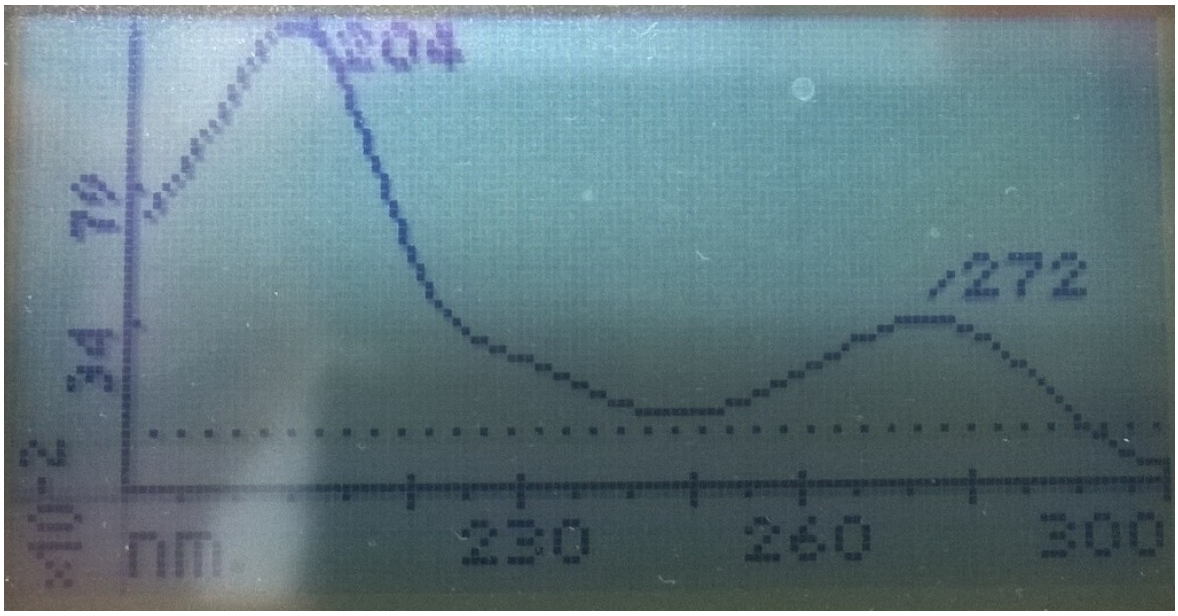
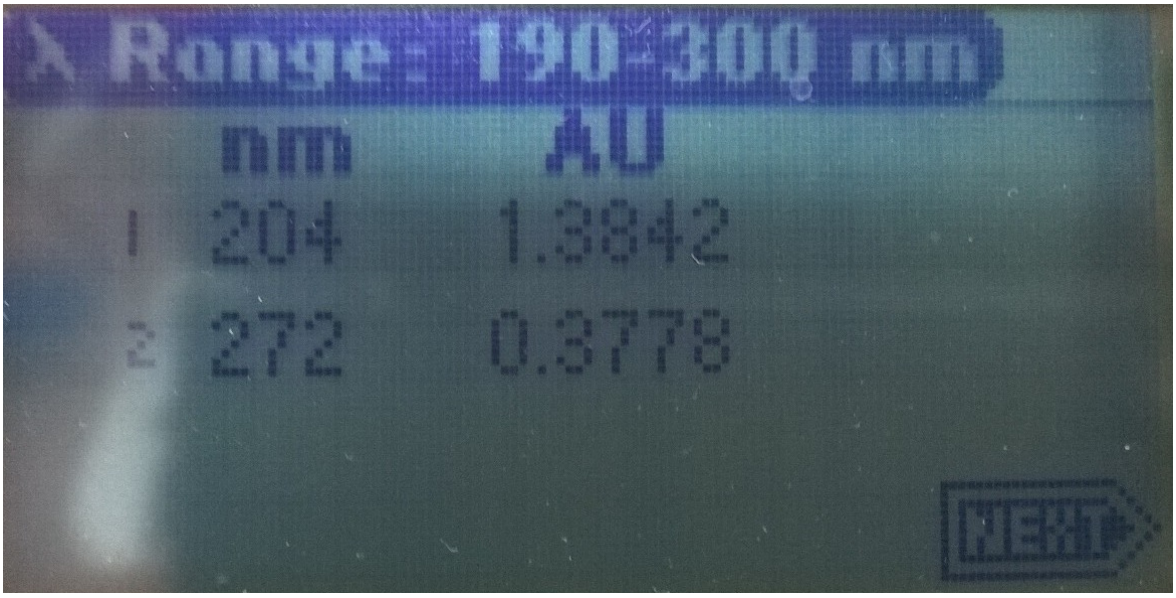
# Certificado de Qualificação

**Certificado N°: 102/23**



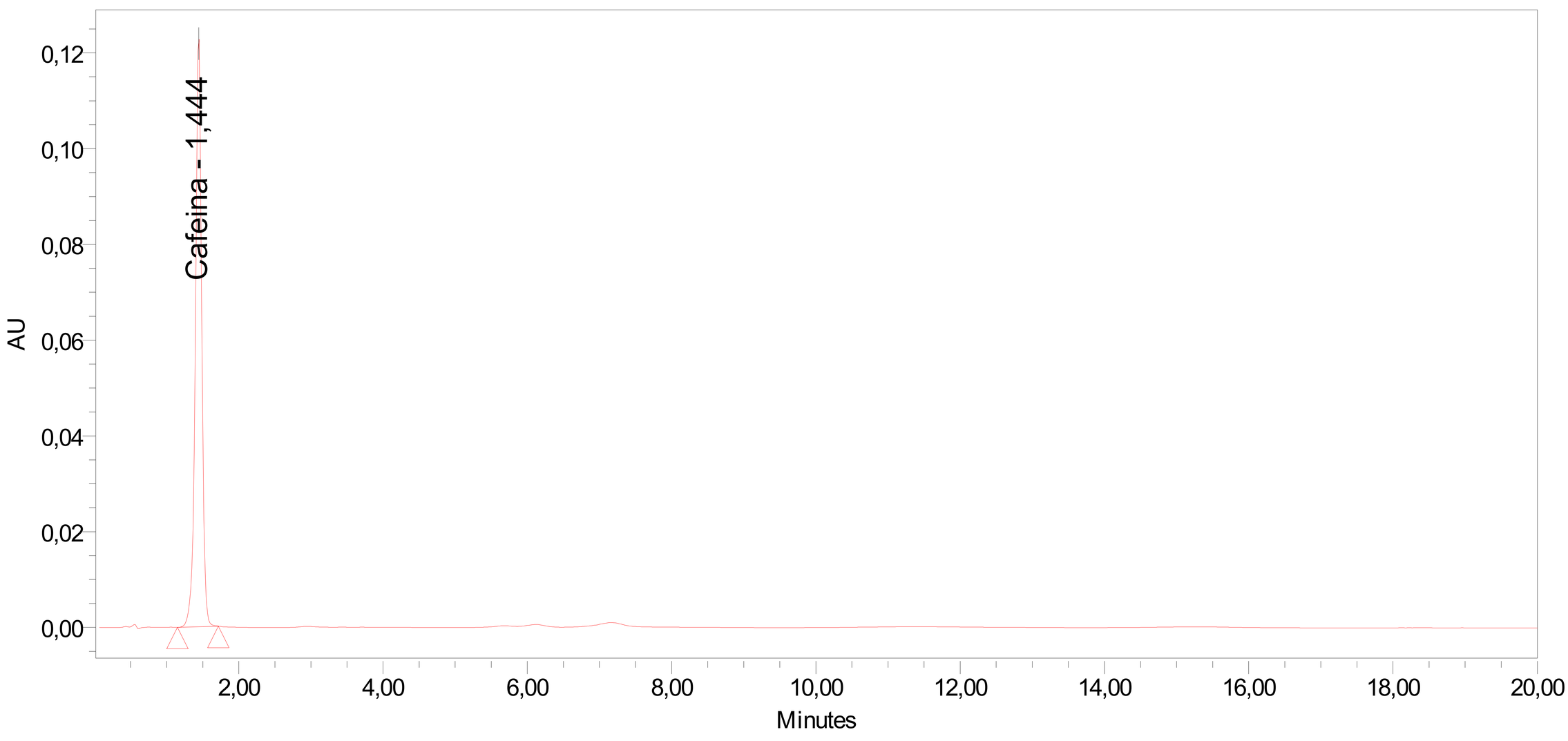




**QPack Soluções Analíticas Ltda.**
**Rua Ema Gazzi Magnusson, 138 – Comercial Vitoria Martini – Indaiatuba – SP – CEP: 13347-630**
**Site: www.qpack.com.br - Fone: 55 (19) 2660-1110**
**E-mail: qpack@qpack.com.br**

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | Sinal-Ruido | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | Sinal_Ruido |
| Vial: | 73 | Acq. Method Set: | Qualificação_SR |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 20,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 20,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 10:15:10 AMT | | |
| Date Processed: | 06/03/2023 10:56:21 AMT | | |

## Auto-Scaled Chromatogram

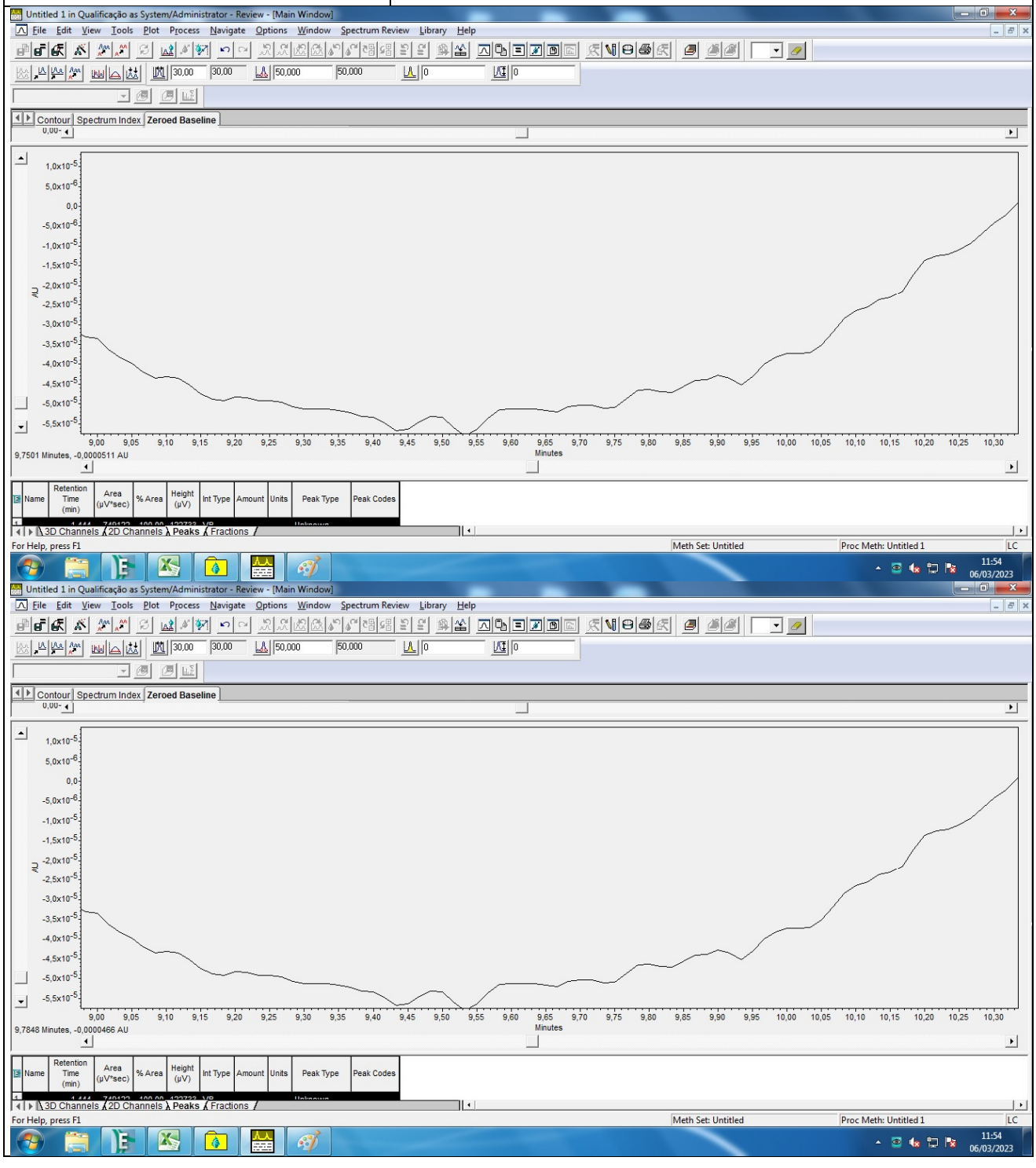



## Peak Results

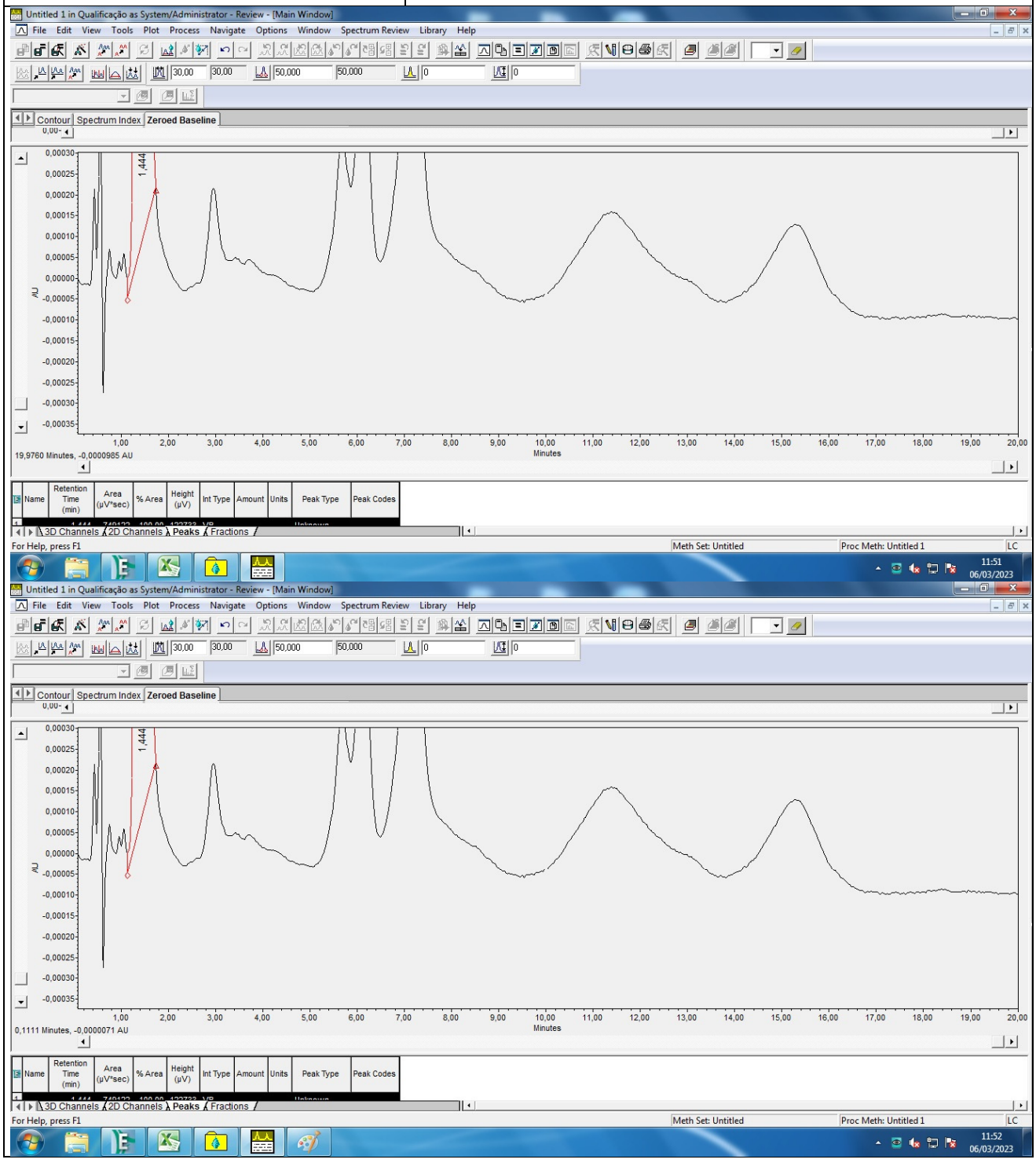
| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,444 | 747413 | 122684 | | |

# Relatório SRELB

| Detector UV – 2487 – N/S M05487272M | Data: 06/03/2023 |
|---|---|
| **Ruído:** | |
| **Valor máximo: - 0.0000511 AU** | **Diferença: 0.0000045 AU** |
| **Valor mínimo: -0.0000466 AU** | |

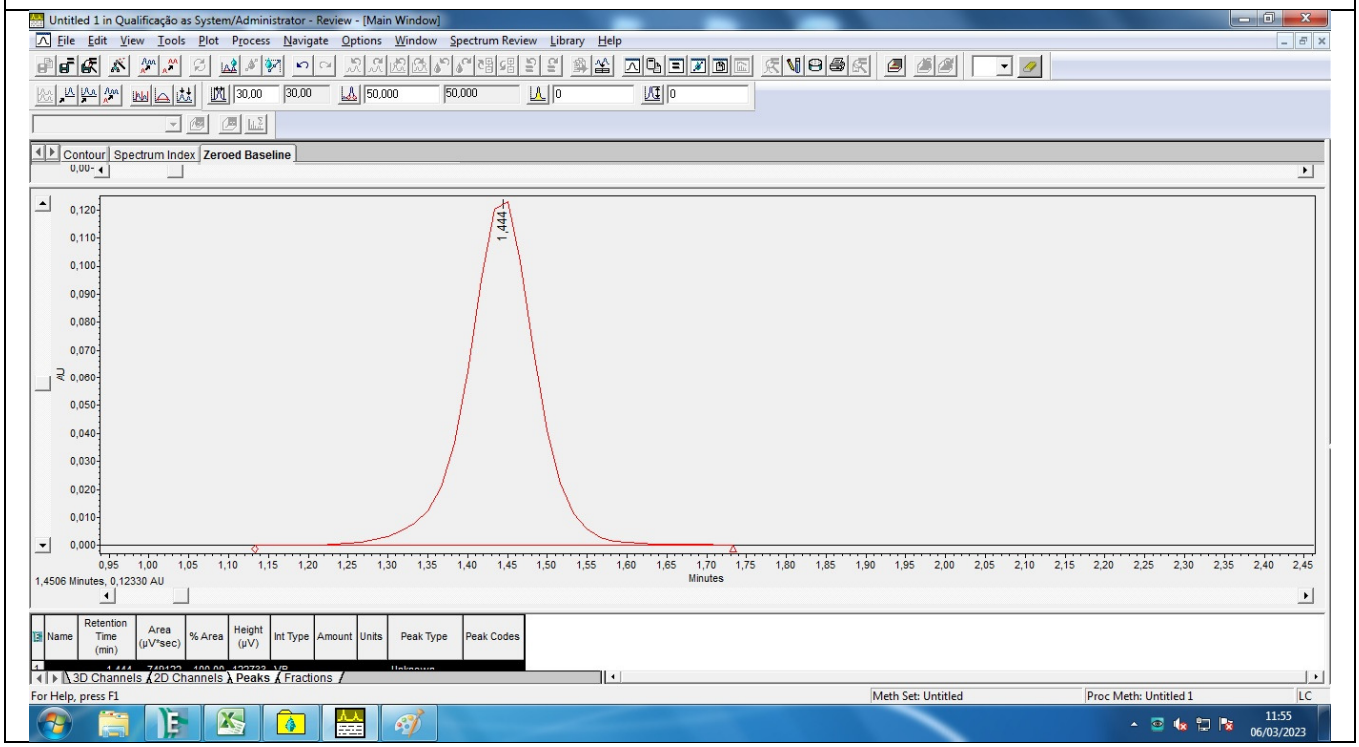


| Estabilidade da Linha de Base: | |
|---|---|
| **Valor máximo: -0.0000985 AU** | **Diferença (20 minutos): 0.0000914 AU** |
| **Valor mínimo: -0.0000071 AU** | **Diferença (60 minutos): 0.0000914 x 3 = 0.0002742 AU** |



**Altura do Pico:**

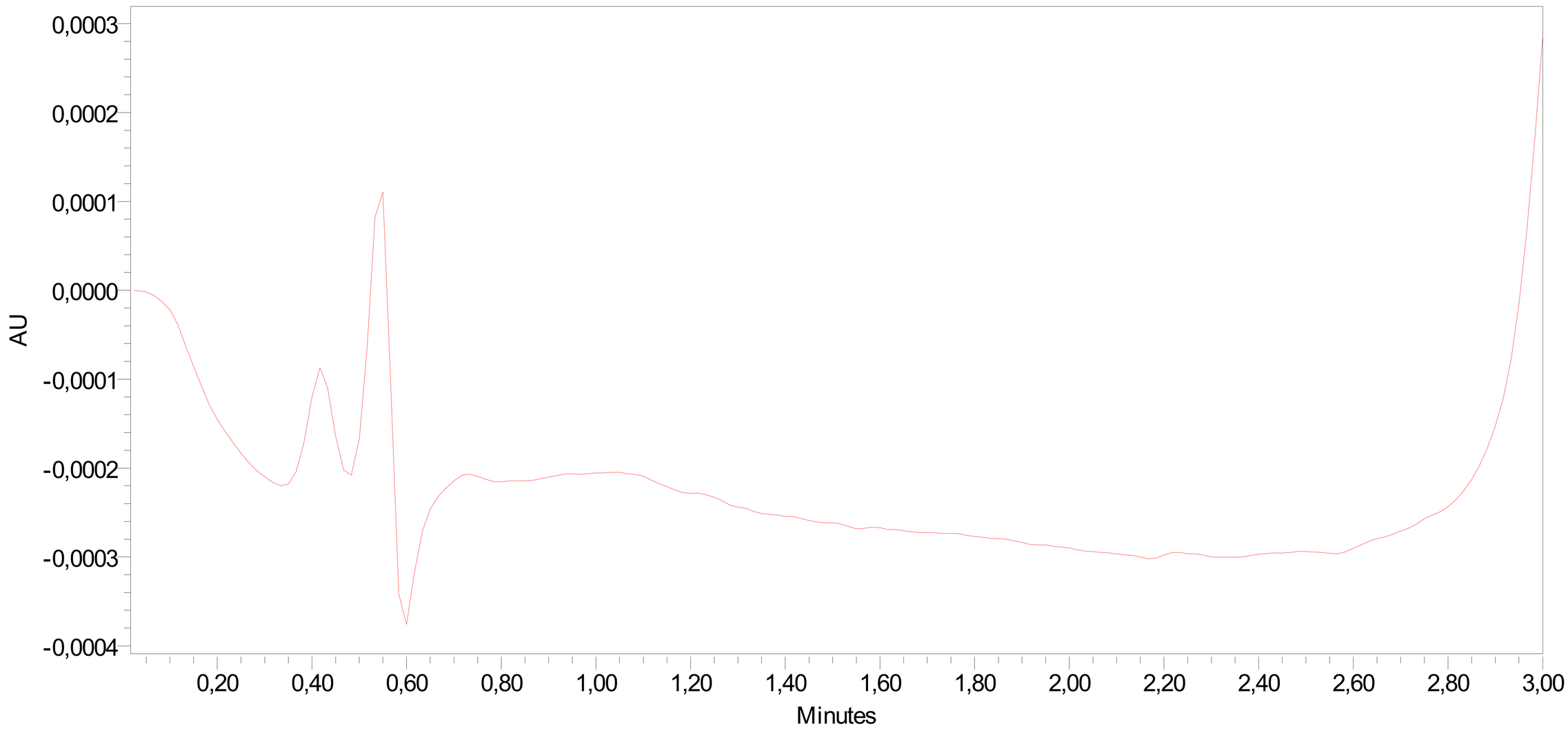
**Valor: 0.12330 AU**



## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | Branco 1 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | PCIN |
| Vial: | 73 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 08:31:08 AMT | | |
| Date Processed: | 06/03/2023 09:10:17 AMT | | |

## Auto-Scaled Chromatogram



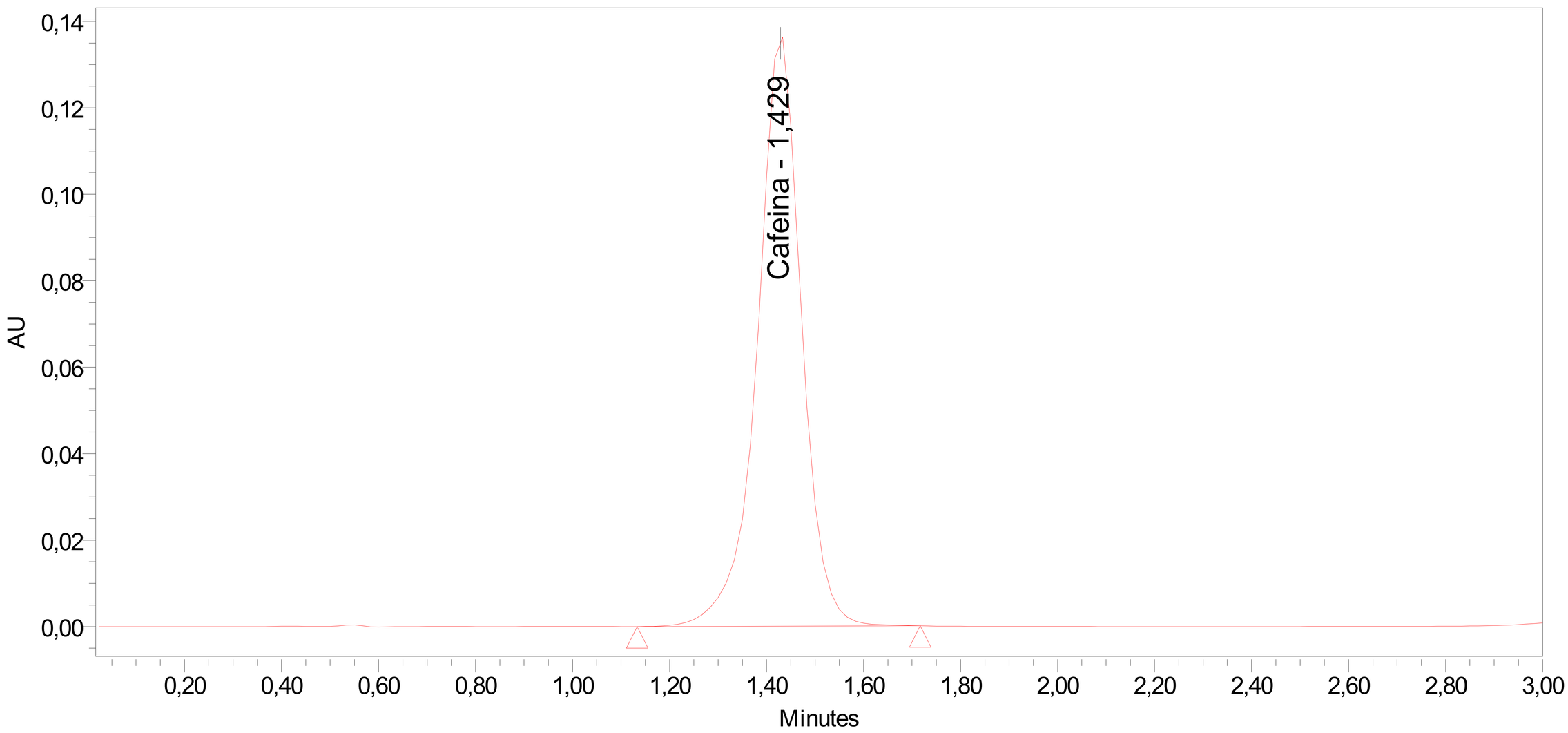

## Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,428 | | | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | PCIN 1 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | PCIN |
| Vial: | 74 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 08:34:59 AMT | | |
| Date Processed: | 06/03/2023 09:10:28 AMT | | |

### Auto-Scaled Chromatogram



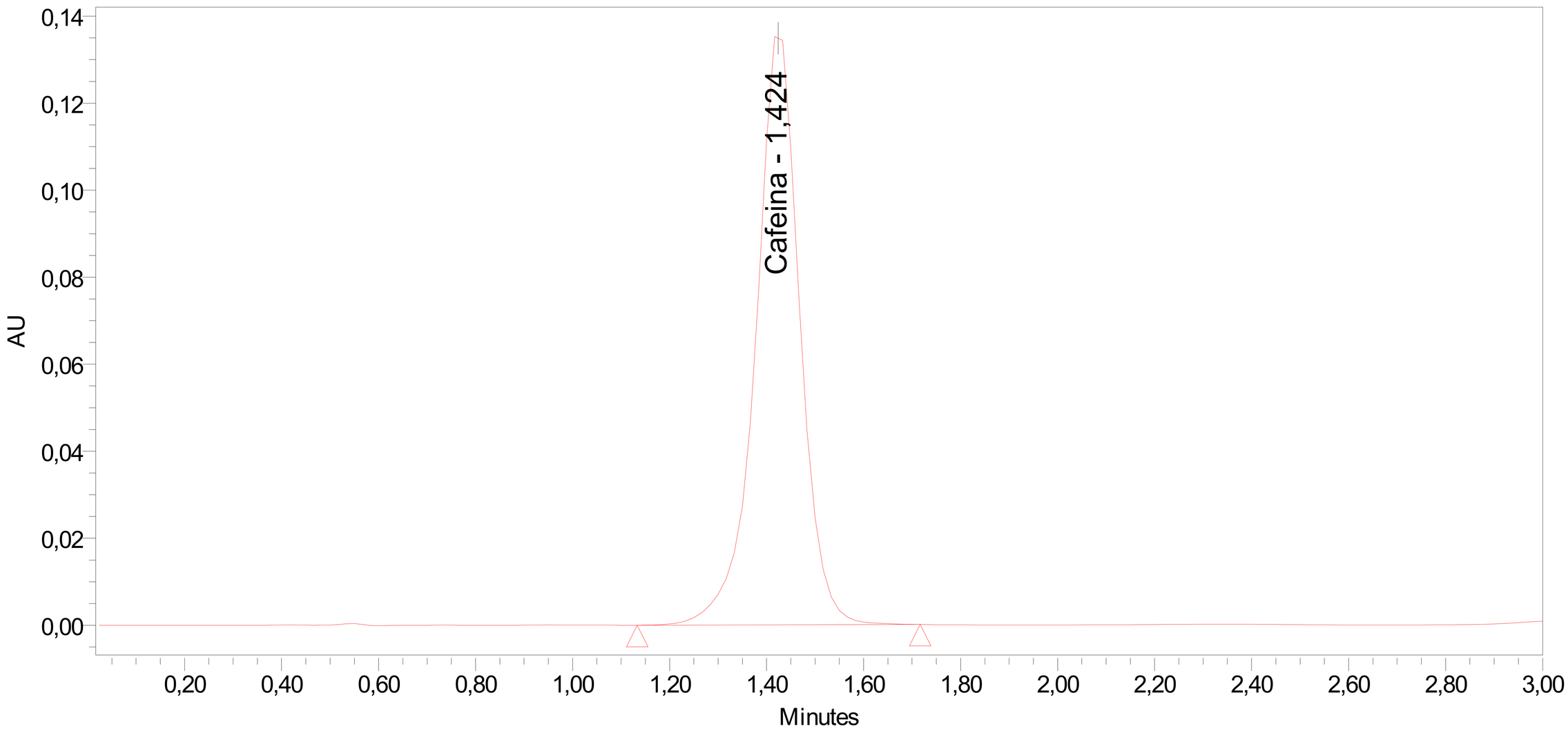

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,429 | 857517 | 135715 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | PCIN 2 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | PCIN |
| Vial: | 74 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 08:38:50 AMT | | |
| Date Processed: | 06/03/2023 09:10:36 AMT | | |

### Auto-Scaled Chromatogram



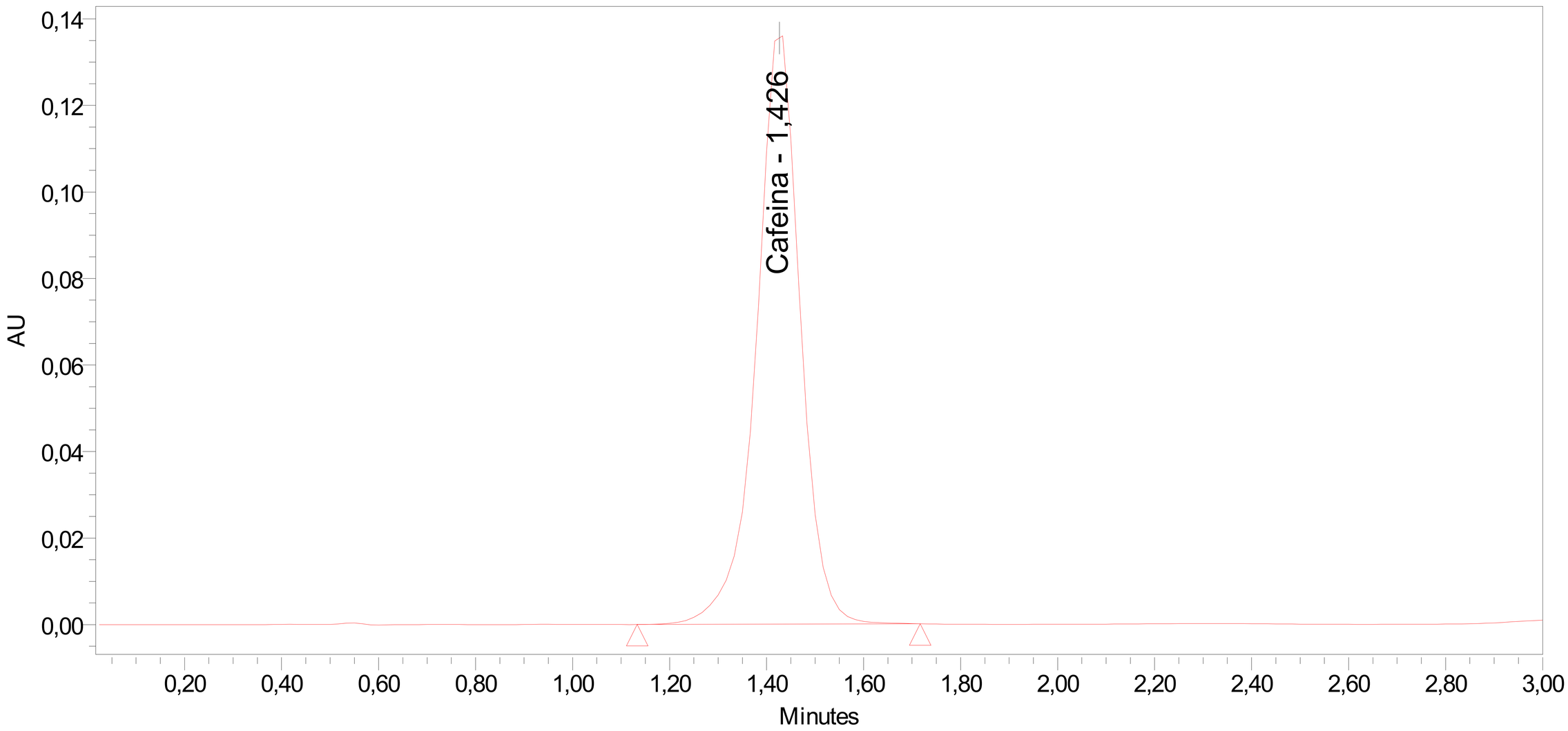

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,424 | 856732 | 135812 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | PCIN 3 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | PCIN |
| Vial: | 74 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 08:42:41 AMT | | |
| Date Processed: | 06/03/2023 09:10:42 AMT | | |

### Auto-Scaled Chromatogram



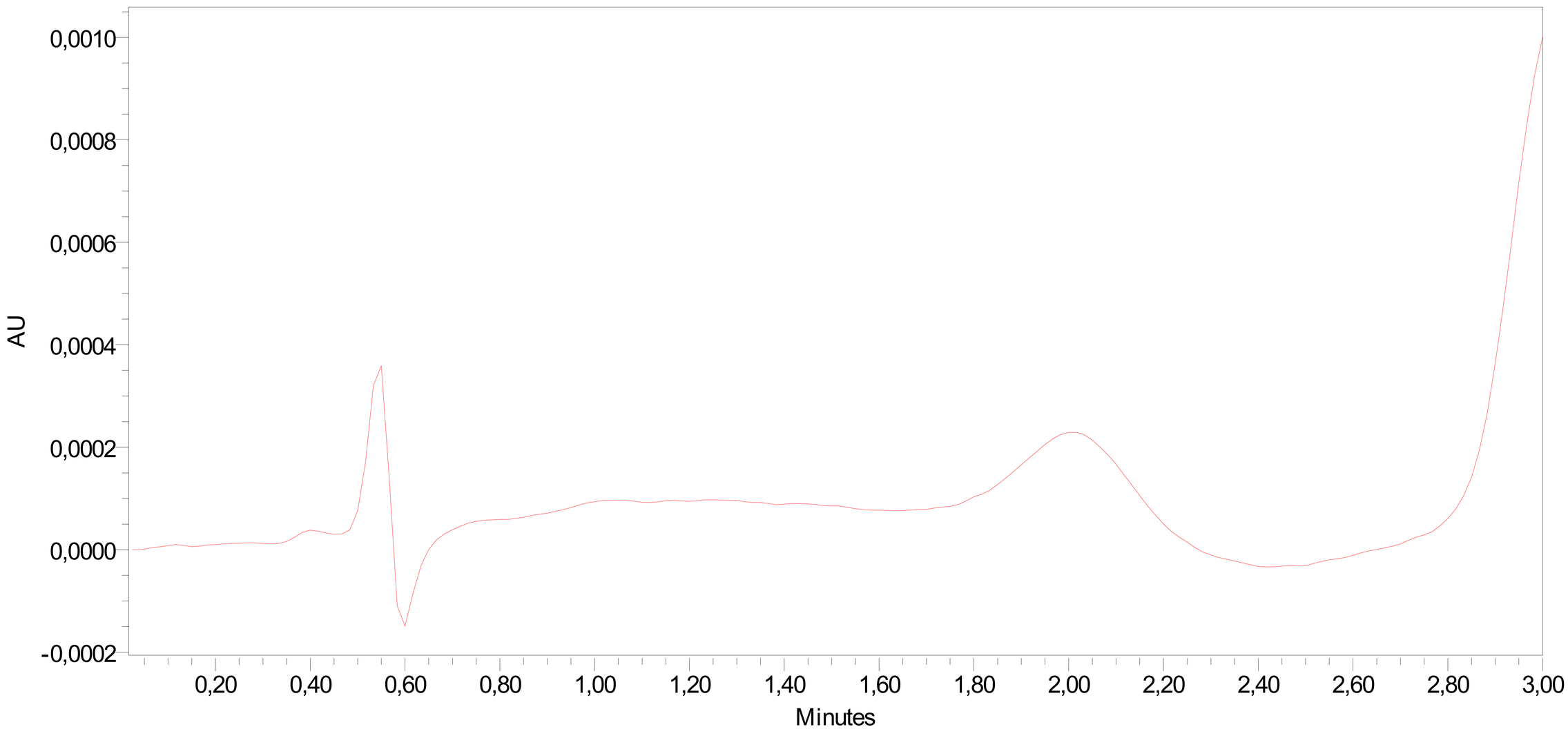

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,426 | 856244 | 136478 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | Branco 2 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | PCIN |
| Vial: | 73 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 08:46:48 AMT | | |
| Date Processed: | 06/03/2023 09:10:47 AMT | | |

### Auto-Scaled Chromatogram



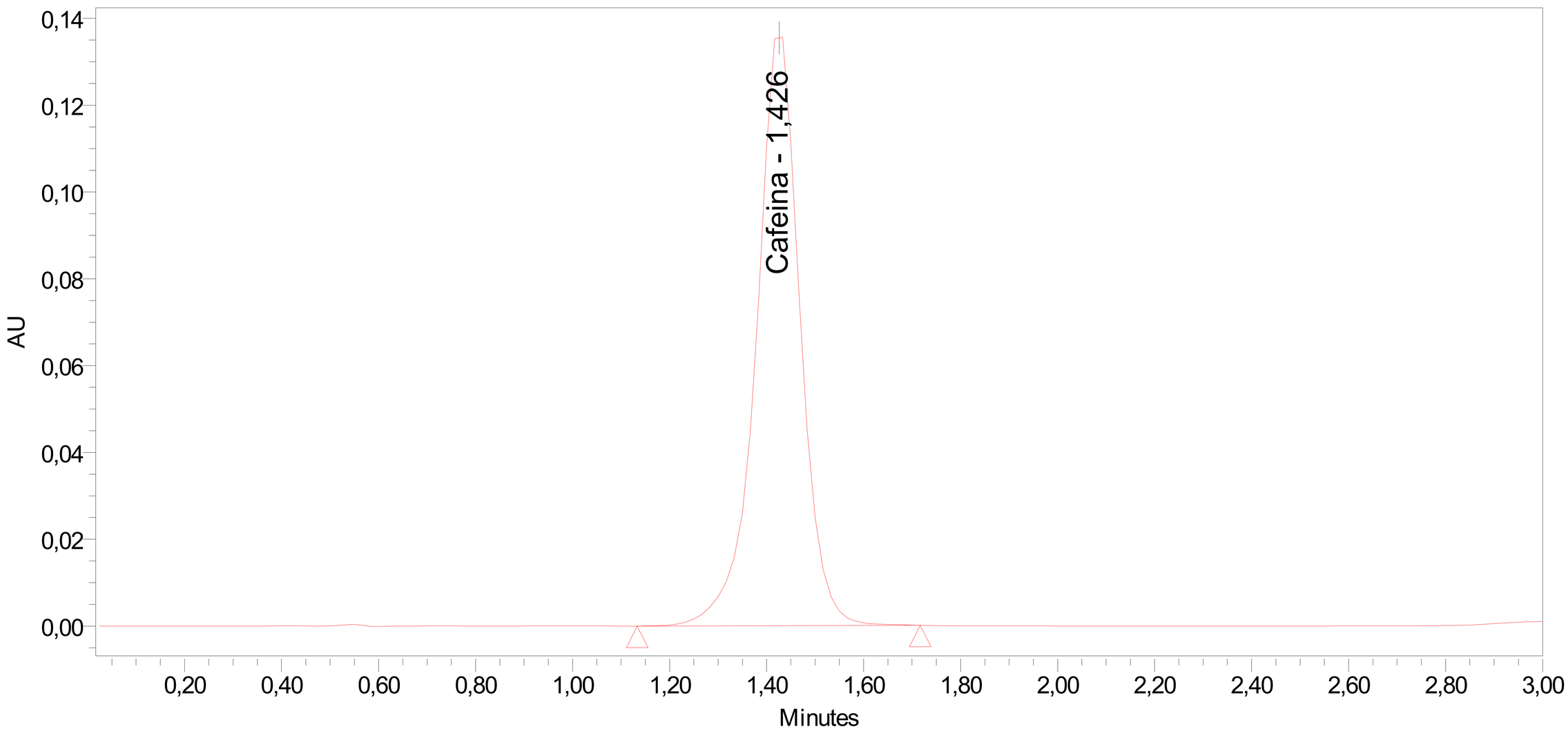

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,428 | | | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | PCIN 4 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | PCIN |
| Vial: | 74 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 08:50:39 AMT | | |
| Date Processed: | 06/03/2023 09:10:51 AMT | | |

### Auto-Scaled Chromatogram



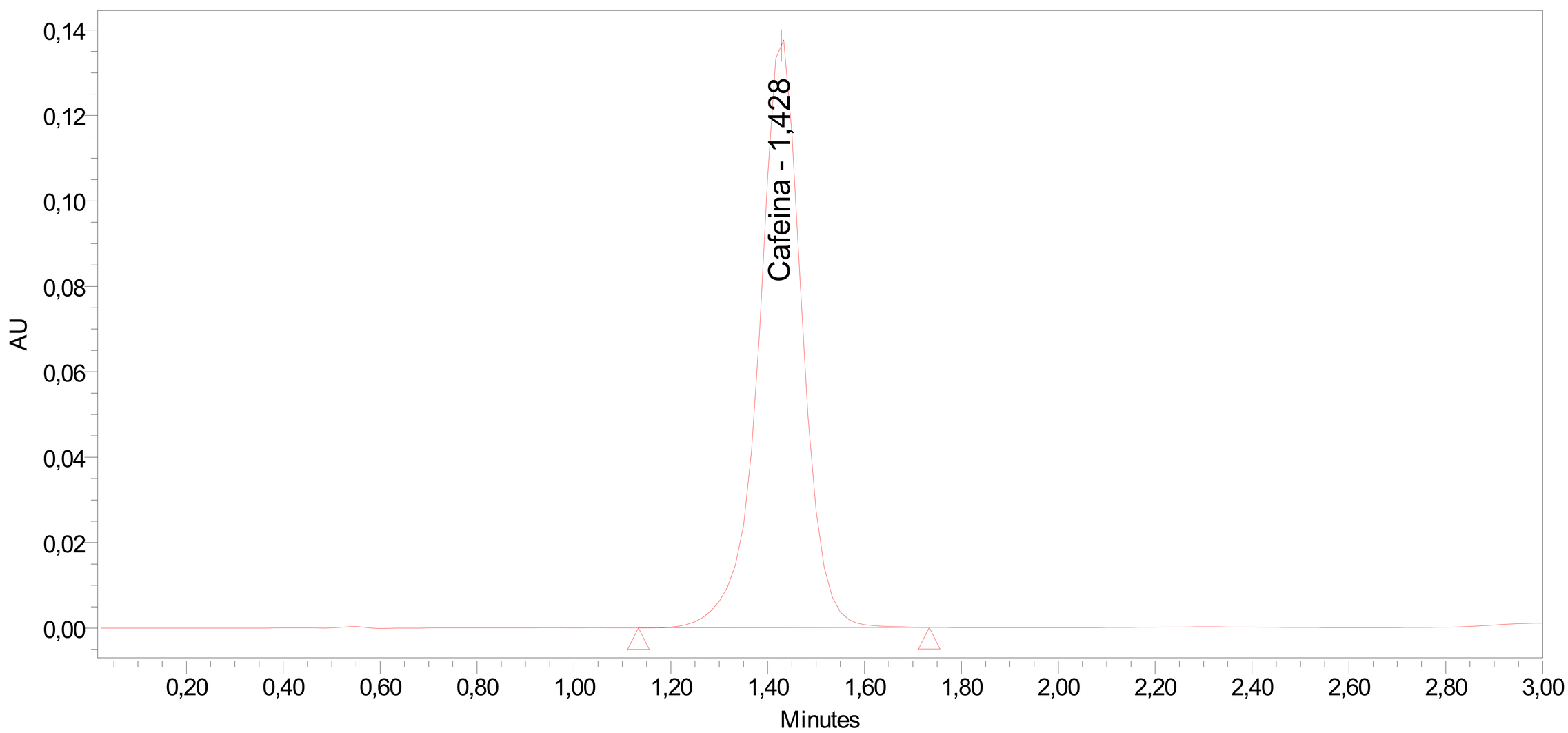

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,426 | 854847 | 136363 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | PCIN 5 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | PCIN |
| Vial: | 74 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 08:54:30 AMT | | |
| Date Processed: | 06/03/2023 09:10:57 AMT | | |

### Auto-Scaled Chromatogram



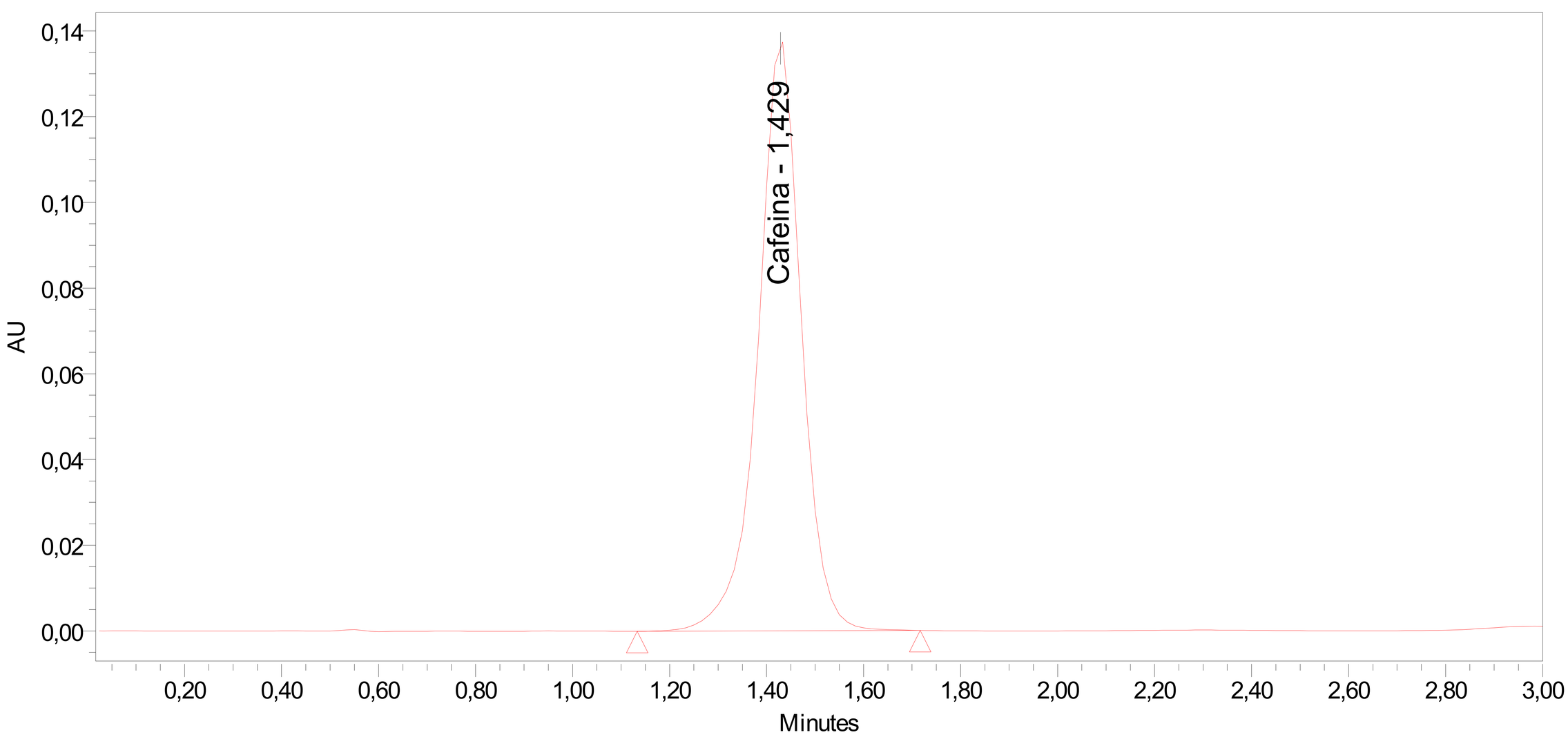

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,428 | 854720 | 137179 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | PCIN 6 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | PCIN |
| Vial: | 74 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 08:58:21 AMT | | |
| Date Processed: | 06/03/2023 09:11:03 AMT | | |

### Auto-Scaled Chromatogram




### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,429 | 851919 | 136740 | | |

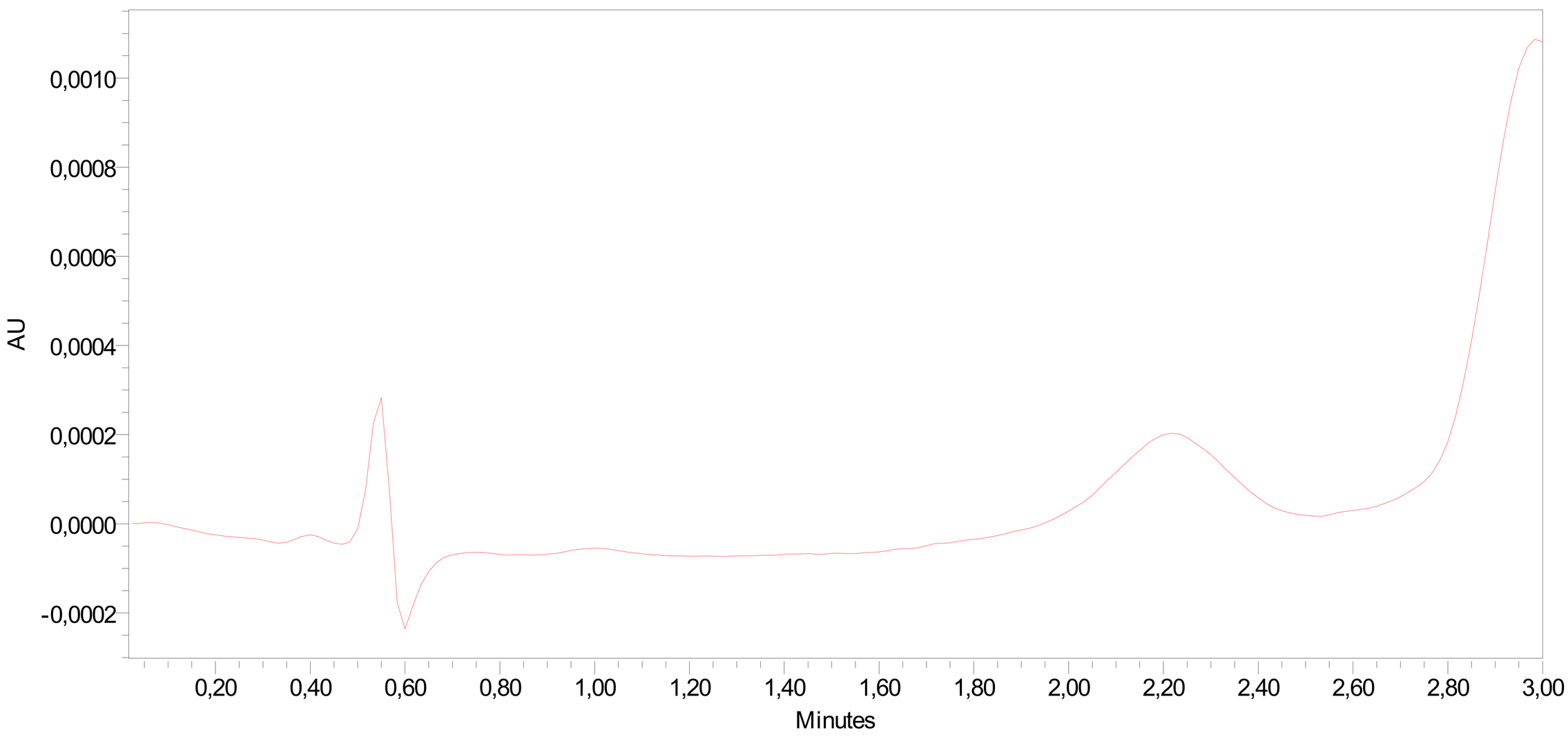
Empower® 3 SOFTWARE

# Untitled

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | Branco 3 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | PCIN |
| Vial: | 73 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 09:02:16 AMT | | |
| Date Processed: | 06/03/2023 09:11:07 AMT | | |

## Auto-Scaled Chromatogram



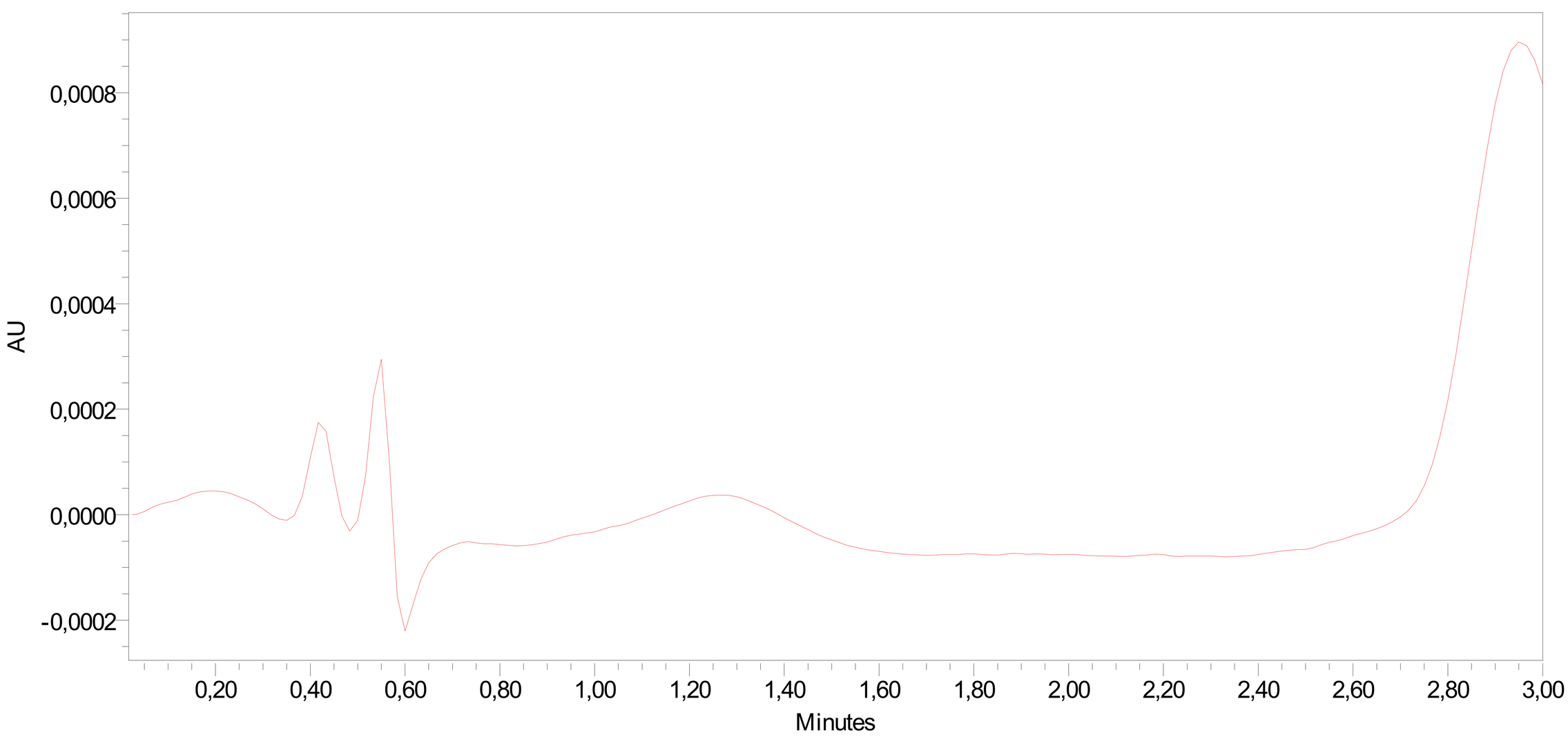

## Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,428 | | | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | LDUV 1 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | LDUV |
| Vial: | 73 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 09:29:56 AMT | | |
| Date Processed: | 06/03/2023 09:51:10 AMT | | |

### Auto-Scaled Chromatogram



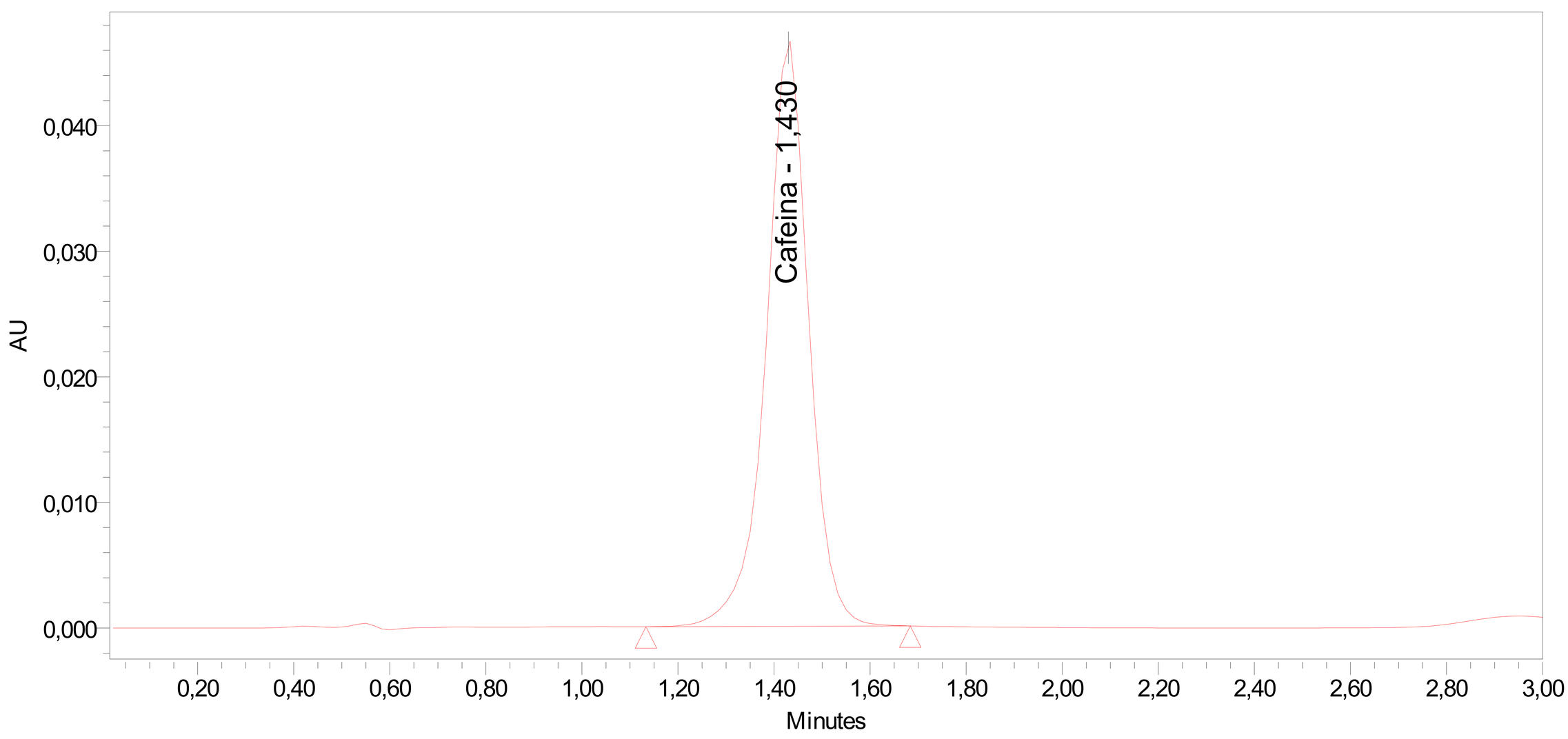

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,428 | | | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | LDUV 2 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | LDUV |
| Vial: | 74 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 09:33:47 AMT | | |
| Date Processed: | 06/03/2023 09:51:16 AMT | | |

### Auto-Scaled Chromatogram



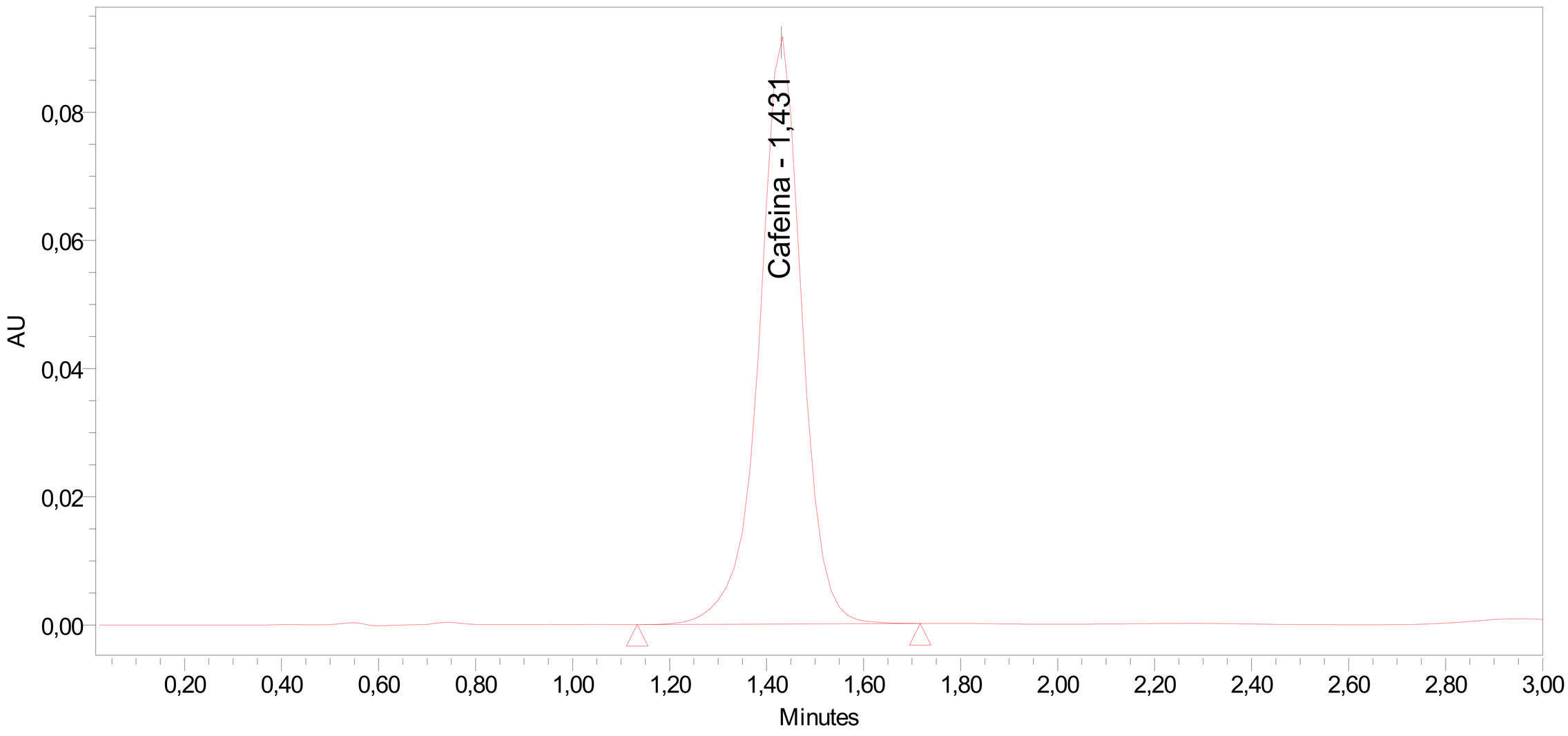

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,430 | 286025 | 46266 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | LDUV 3 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | LDUV |
| Vial: | 75 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 09:37:38 AMT | | |
| Date Processed: | 06/03/2023 09:51:21 AMT | | |

### Auto-Scaled Chromatogram



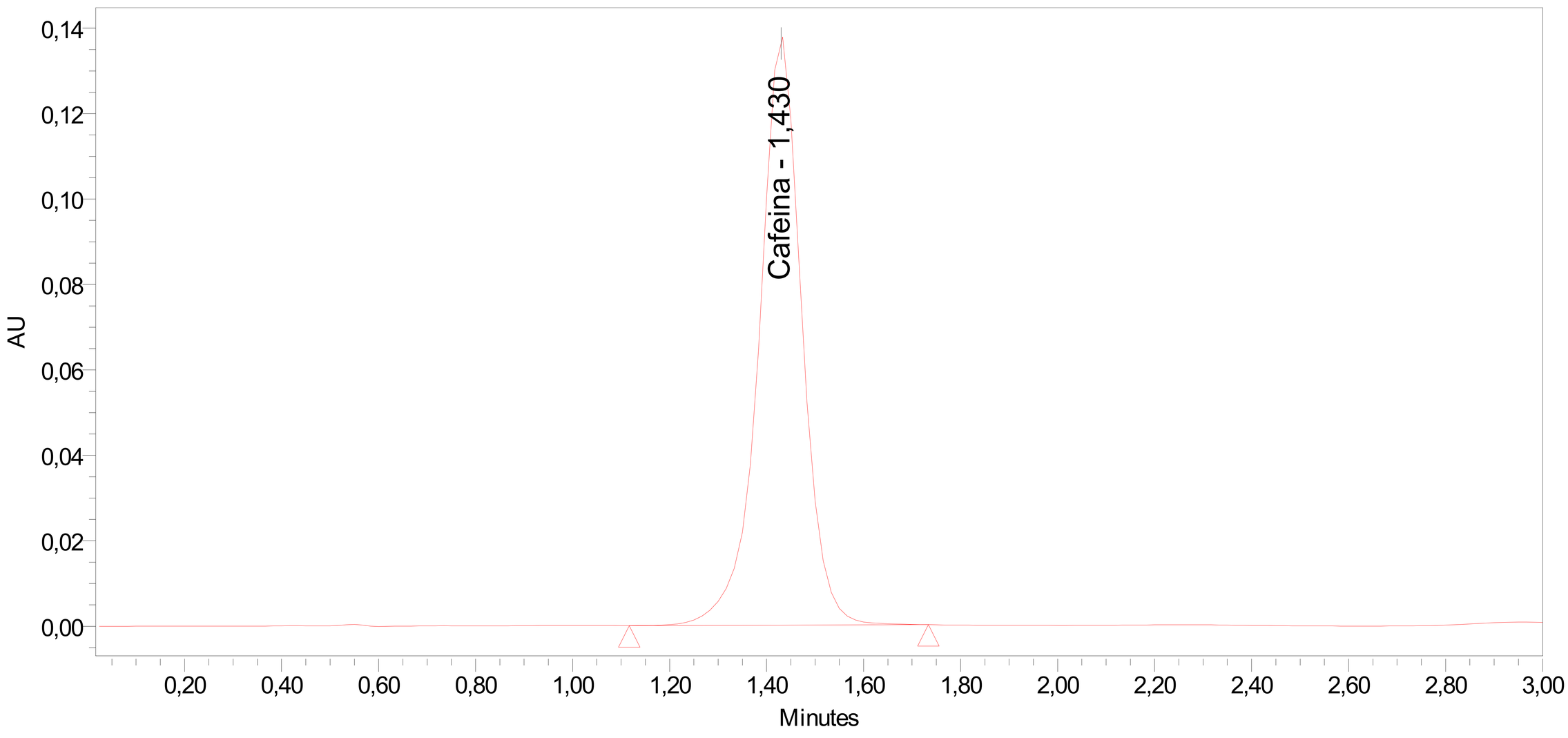

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,431 | 560729 | 90861 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | LDUV 4 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | LDUV |
| Vial: | 76 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 09:41:29 AMT | | |
| Date Processed: | 06/03/2023 09:51:26 AMT | | |

### Auto-Scaled Chromatogram



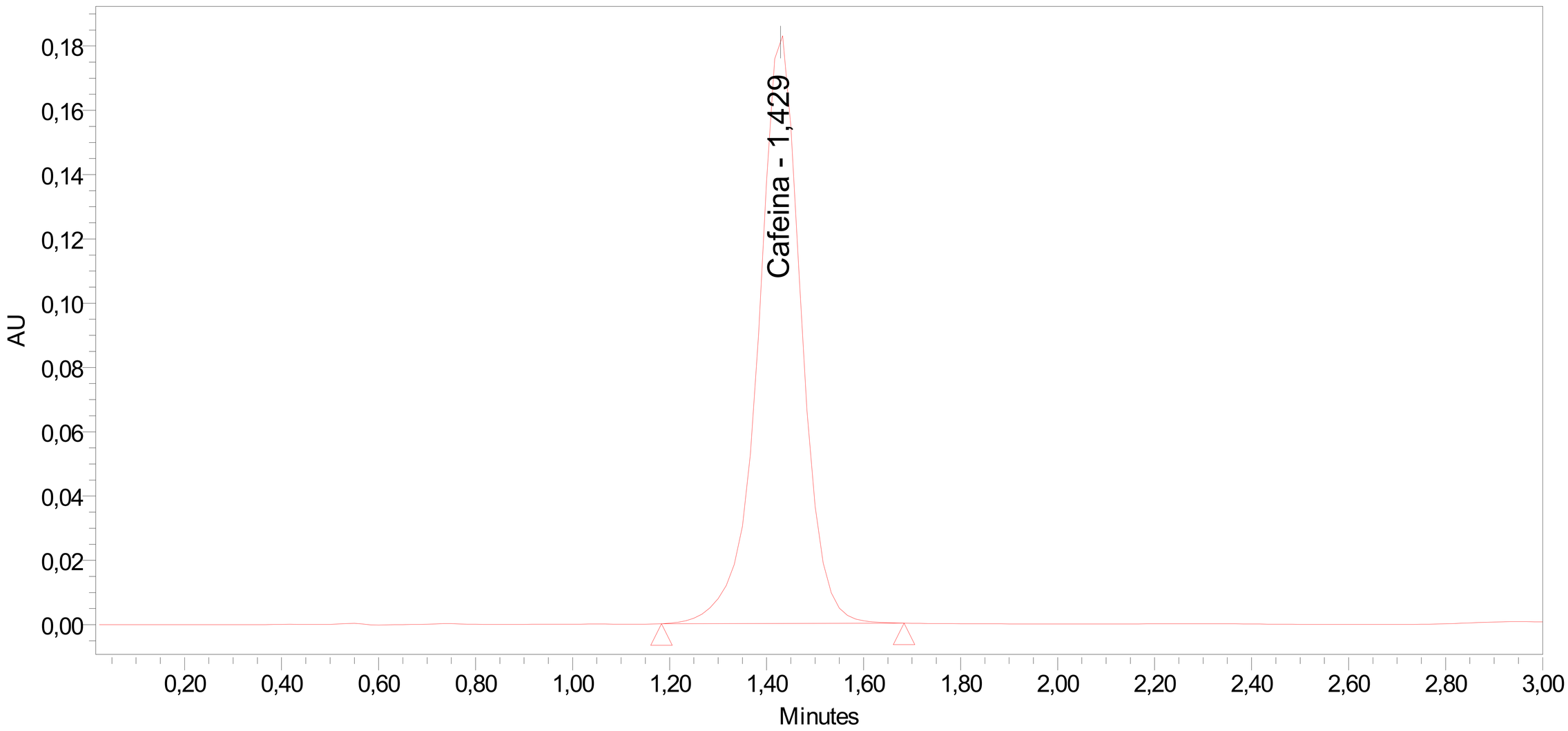

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,430 | 844068 | 136587 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | LDUV 5 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | LDUV |
| Vial: | 77 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 09:45:18 AMT | | |
| Date Processed: | 06/03/2023 09:51:39 AMT | | |

### Auto-Scaled Chromatogram



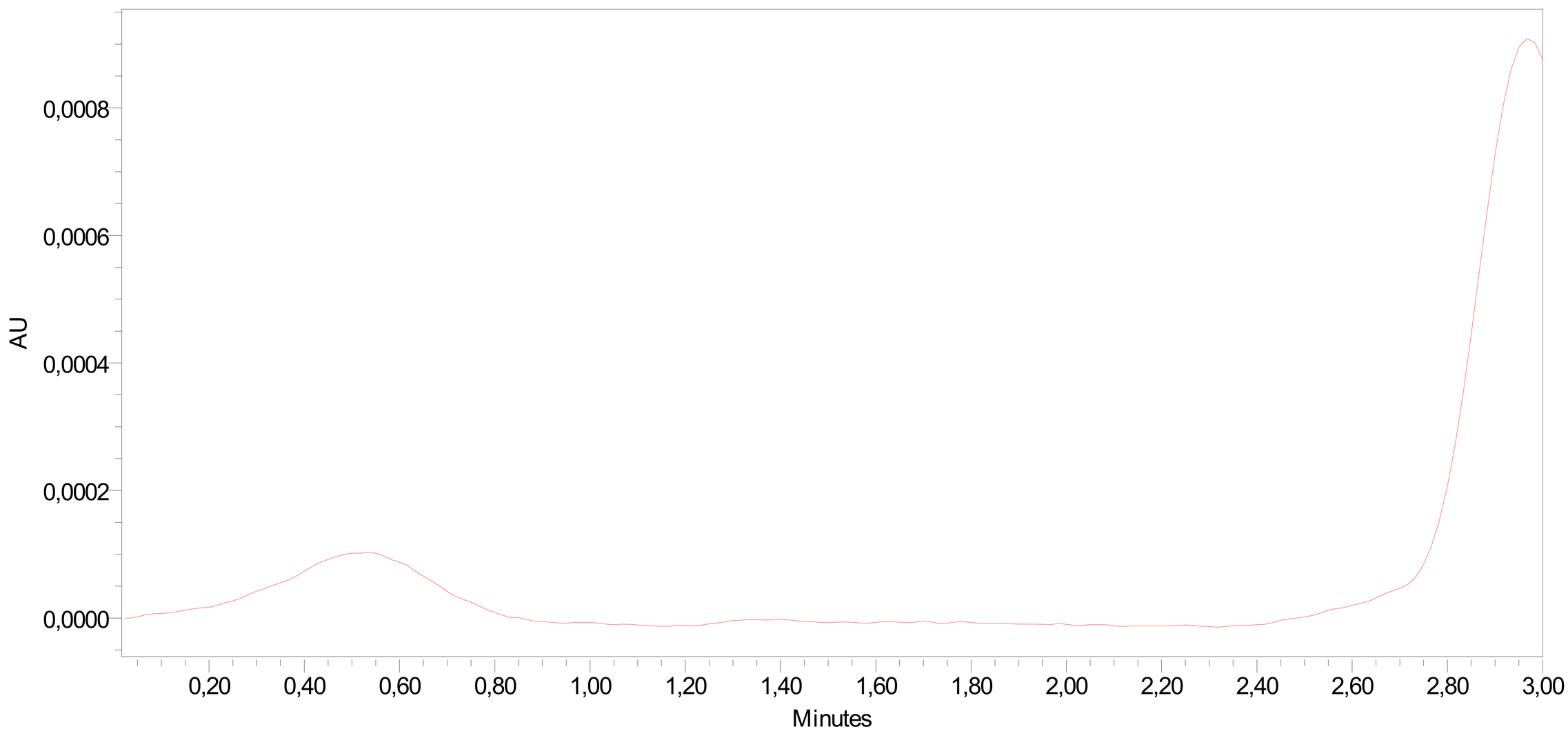

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,429 | 1122202 | 181946 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | LIIN 1 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | LIIN |
| Vial: | 73 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 0,10 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 09:51:56 AMT | | |
| Date Processed: | 06/03/2023 10:14:54 AMT | | |

### Auto-Scaled Chromatogram



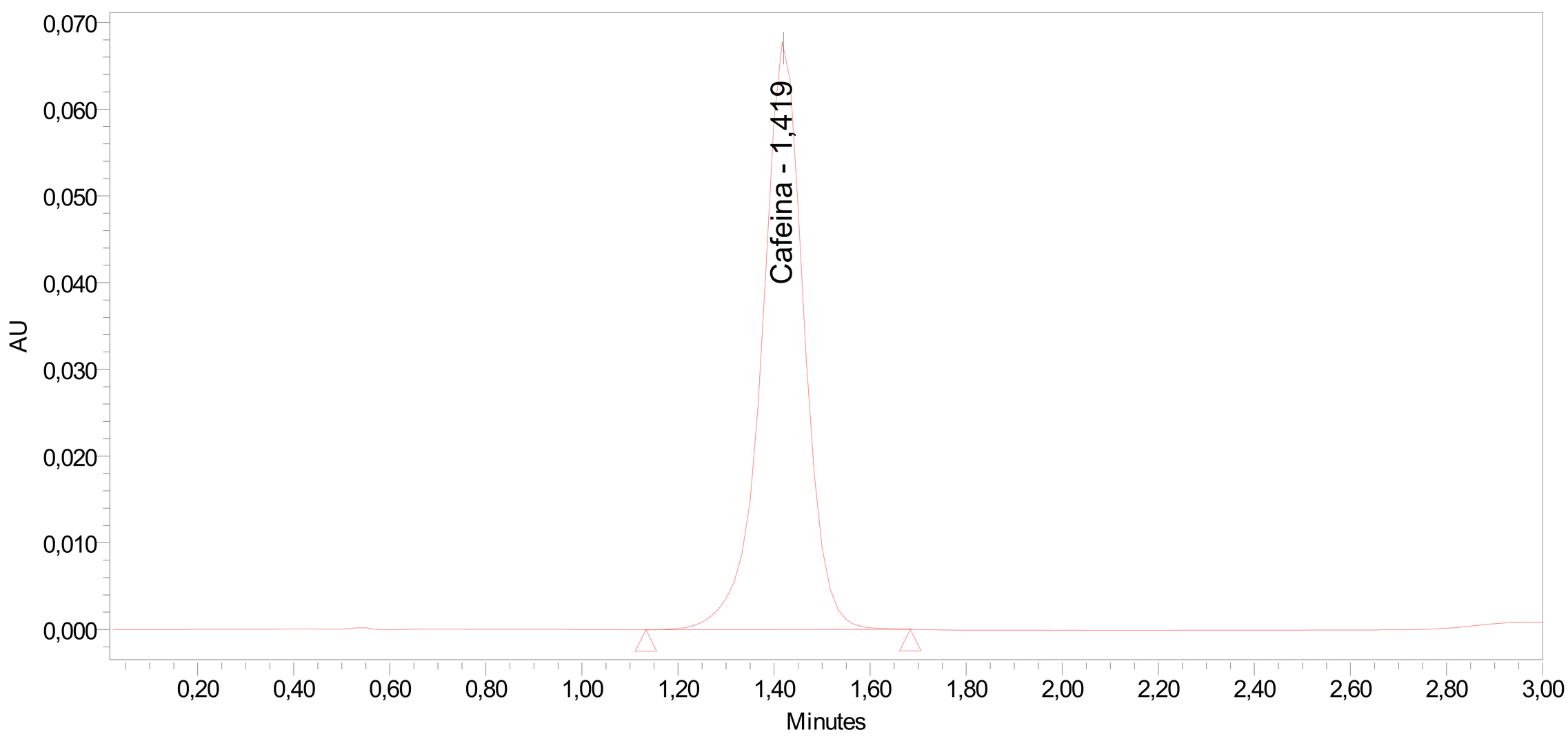

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,428 | | | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | LIIN 2 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | LIIN |
| Vial: | 73 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 5,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 09:56:01 AMT | | |
| Date Processed: | 06/03/2023 10:14:59 AMT | | |

### Auto-Scaled Chromatogram



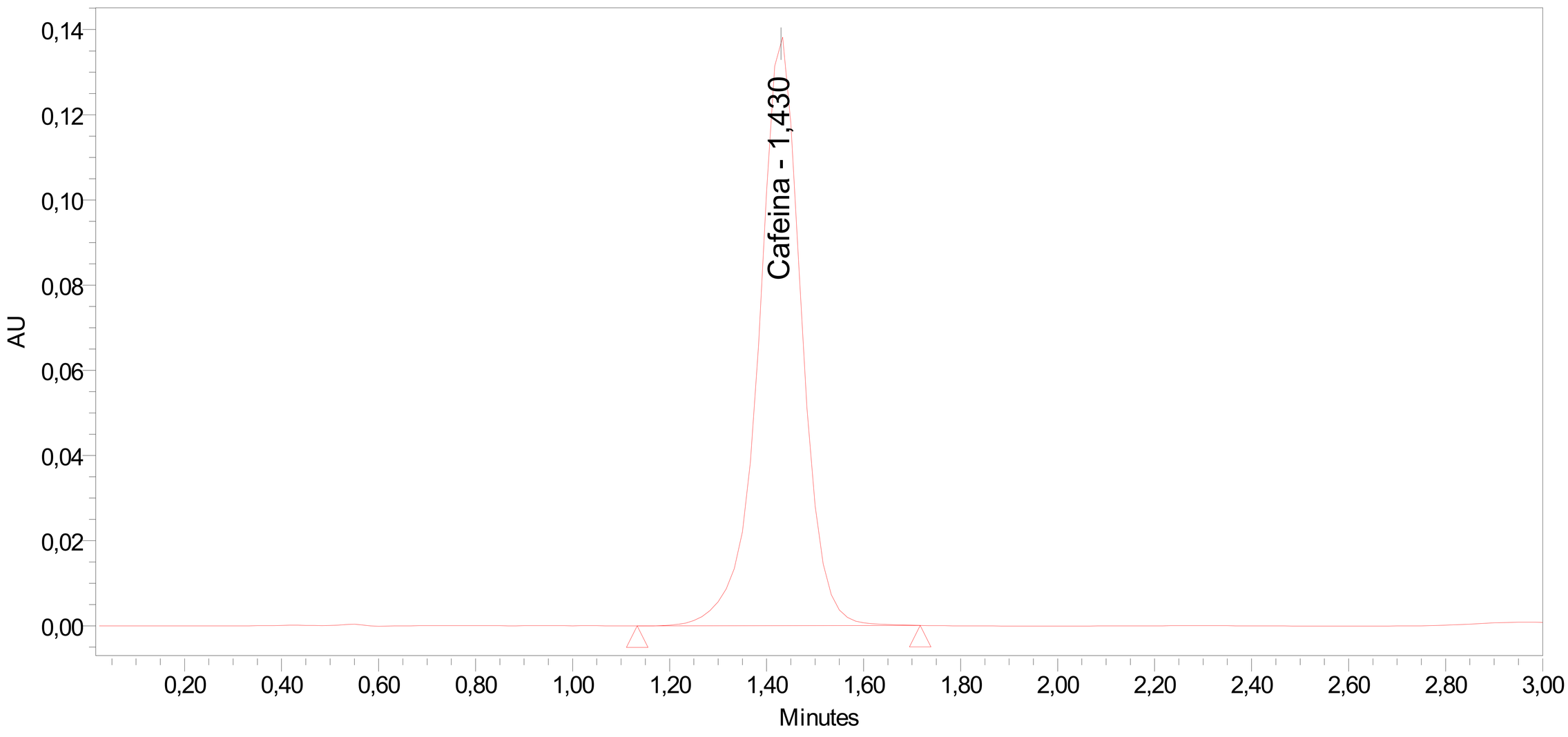

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,419 | 413072 | 67154 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | LIIN 3 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | LIIN |
| Vial: | 73 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 10,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 09:59:52 AMT | | |
| Date Processed: | 06/03/2023 10:15:07 AMT | | |

### Auto-Scaled Chromatogram



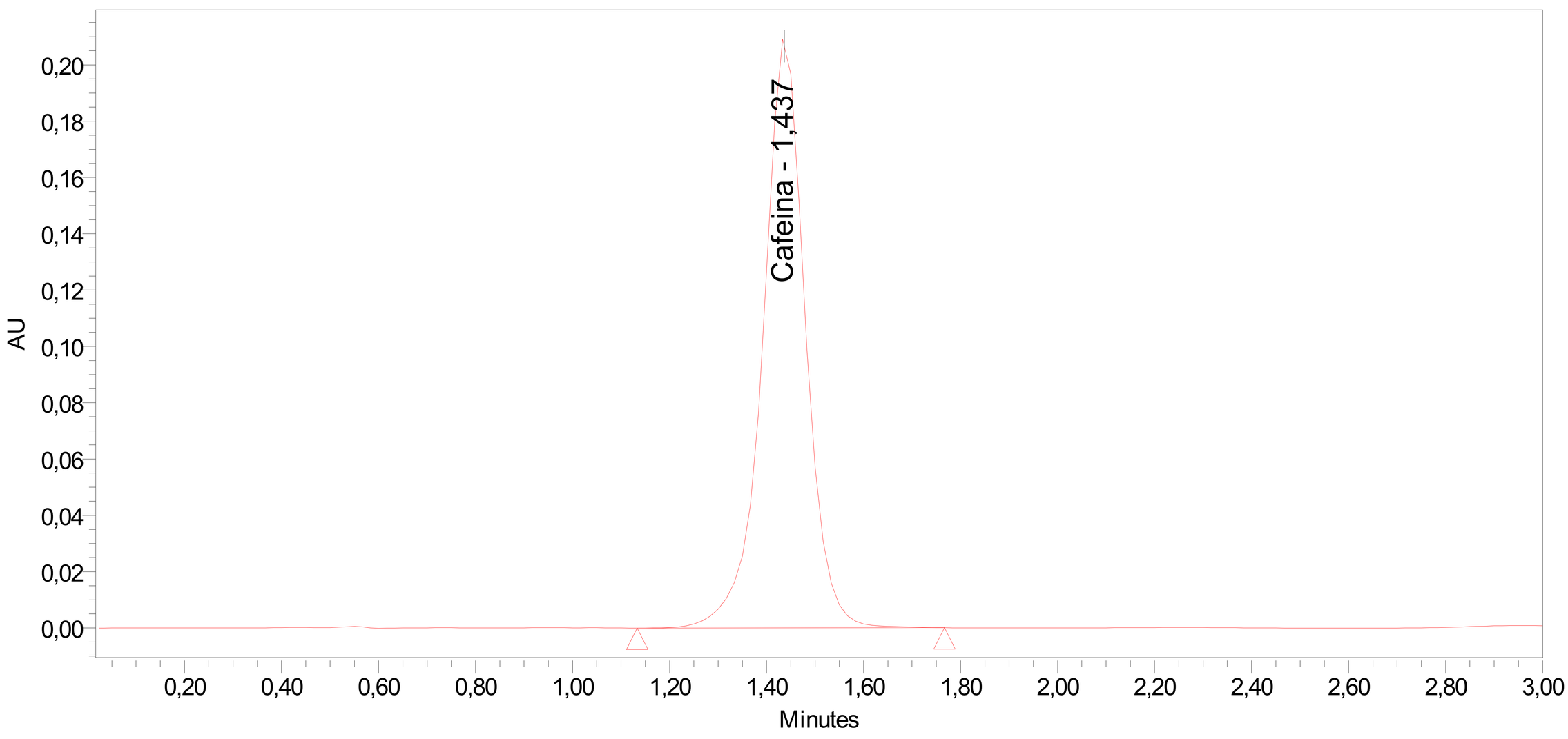

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,430 | 844405 | 137258 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | LIIN 4 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | LIIN |
| Vial: | 73 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 15,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 10:03:45 AMT | | |
| Date Processed: | 06/03/2023 10:15:12 AMT | | |

### Auto-Scaled Chromatogram



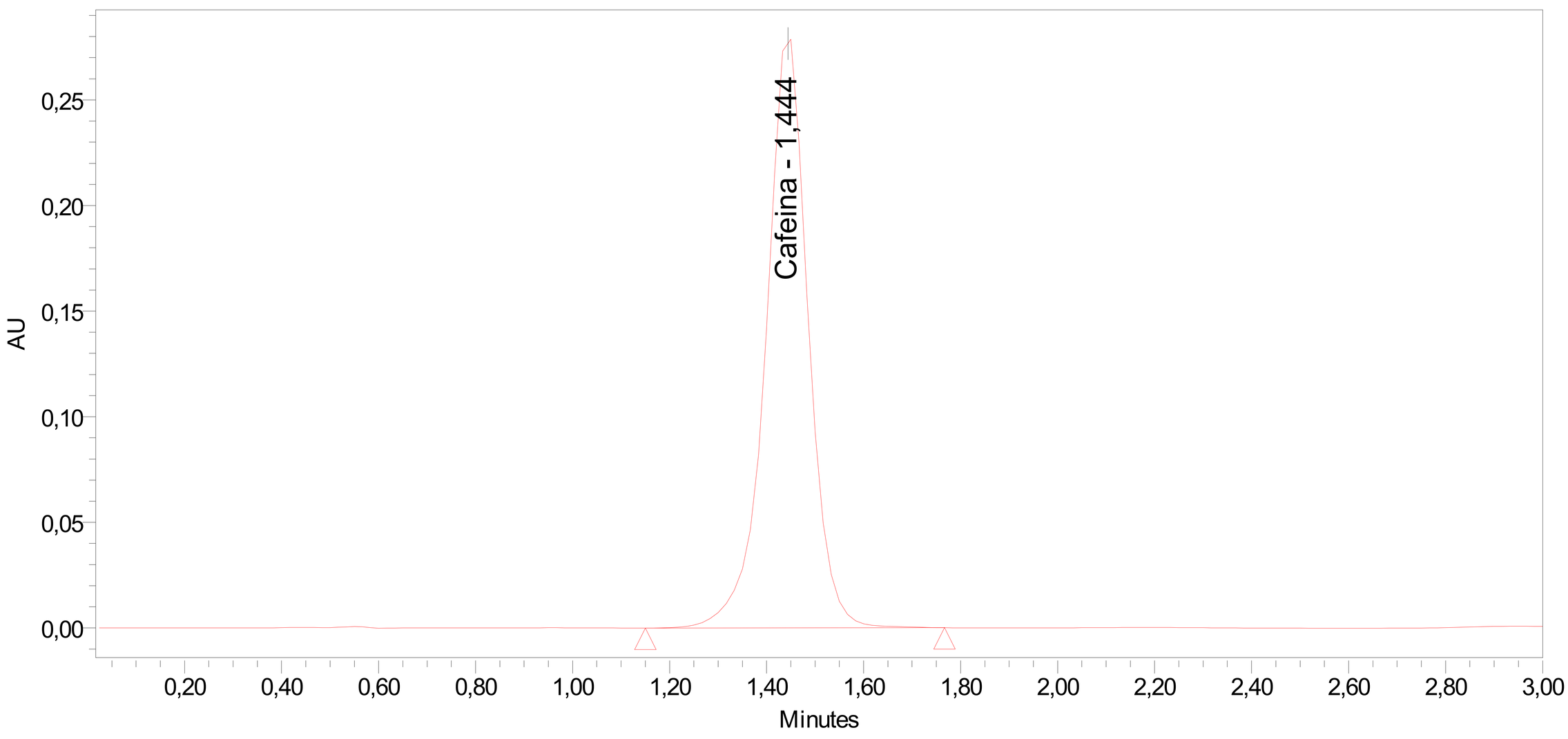

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,437 | 1273023 | 207317 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | LIIN 5 | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | LIIN |
| Vial: | 73 | Acq. Method Set: | Qualificação |
| Injection #: | 1 | Processing Method | Qualificação |
| Injection Volume: | 20,00 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 3,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 10:07:42 AMT | | |
| Date Processed: | 06/03/2023 10:15:16 AMT | | |

### Auto-Scaled Chromatogram



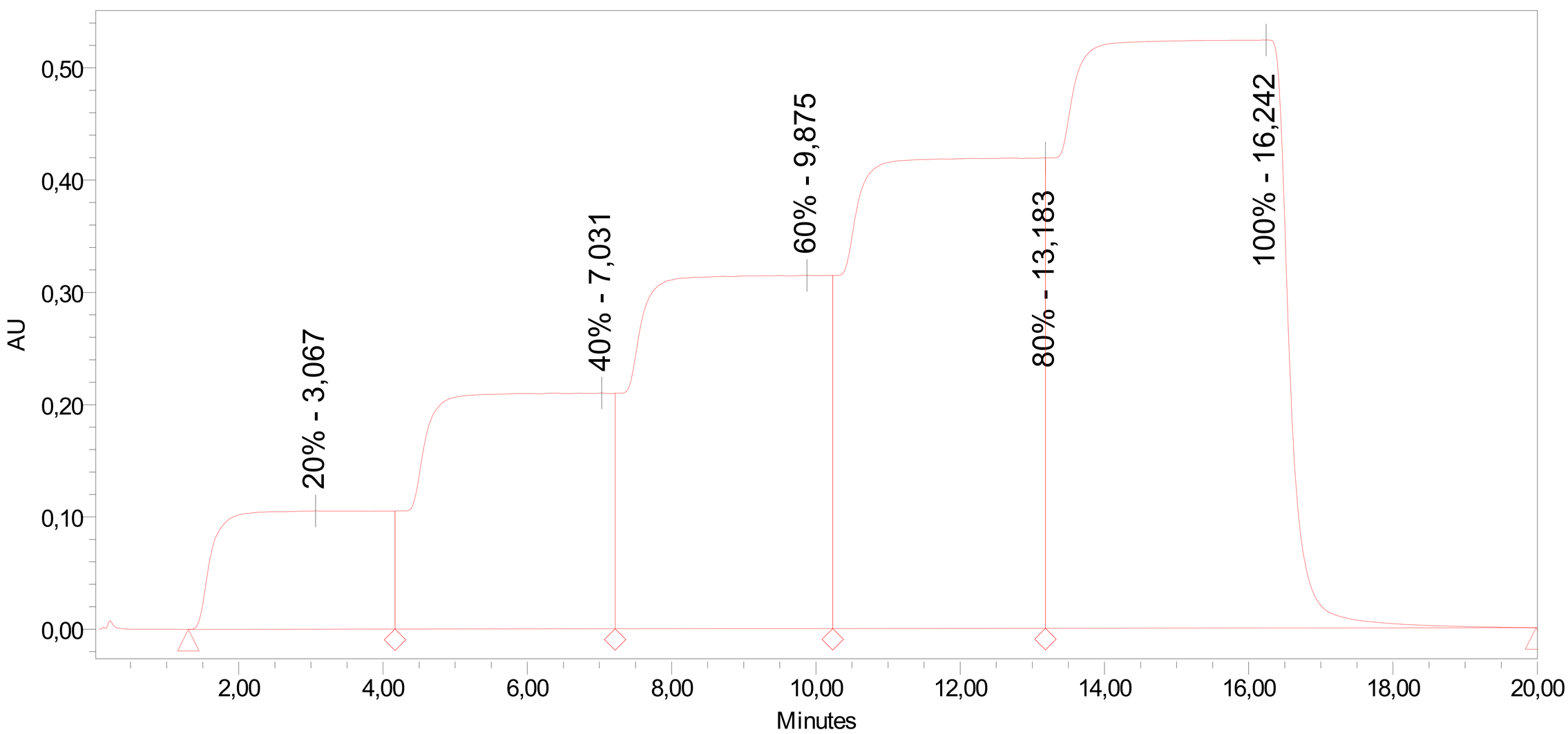

### Peak Results

| | | | | | | |
|---|---|---|---|---|---|---|
| | Cafeina | 1,444 | 1695256 | 278680 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | Grad AB | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | Grad AB |
| Vial: | 73 | Acq. Method Set: | Grad AB |
| Injection #: | 1 | Processing Method | Grad AB |
| Injection Volume: | 0,10 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 20,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 11:09:22 AMT | | |
| Date Processed: | 06/03/2023 11:34:09 AMT | | |

## Auto-Scaled Chromatogram



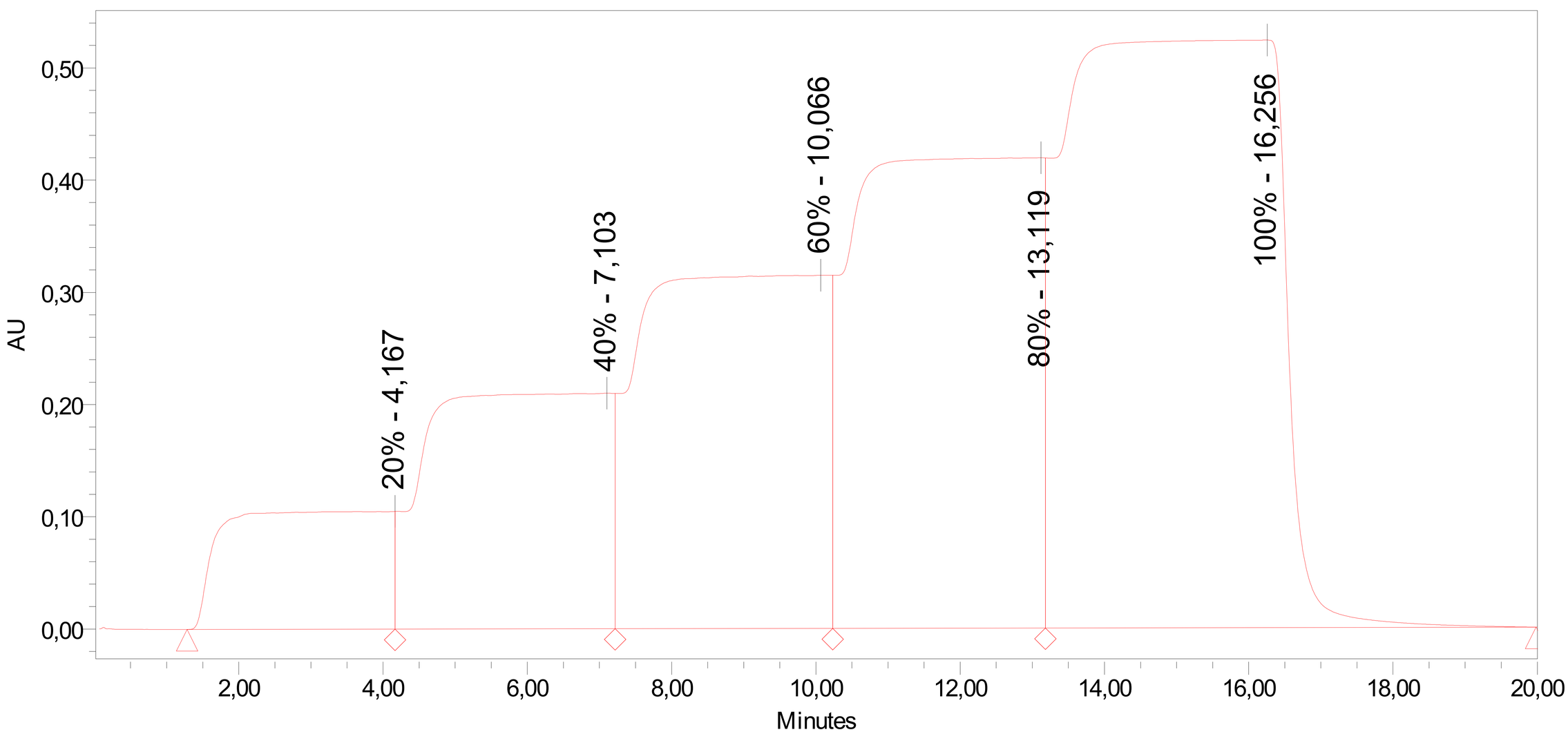

## Peak Results

| | | | | | |
|---|---|---|---|---|---|
| 20% | 3,067 | 16113211 | 105306 | | |
| 40% | 7,031 | 35698214 | 210106 | | |
| 60% | 9,875 | 54524868 | 314511 | | |
| 80% | 13,183 | 71854789 | 418996 | | |
| 100% | 16,242 | 104938302 | 523617 | | |

## SAMPLE INFORMATION

| | | | |
|---|---|---|---|
| Sample Name: | Grad CD | Acquired By: | System |
| Sample Type: | Unknown | Sample Set Name | Grad CD |
| Vial: | 73 | Acq. Method Set: | Grad CD |
| Injection #: | 1 | Processing Method | Grad CD |
| Injection Volume: | 0,10 ul | Channel Name: | 2487Channel 1 |
| Run Time: | 20,0 Minutes | Proc. Chnl. Descr.: | 2487Channel 1 |
| Date Acquired: | 06/03/2023 11:42:29 AMT | | |
| Date Processed: | 06/03/2023 12:05:41 AMT | | |

## Auto-Scaled Chromatogram




## Peak Results

| | | | | | |
|---|---|---|---|---|---|
| 20% | 4,167 | 16073729 | 104840 | | |
| 40% | 7,103 | 35610797 | 209843 | | |
| 60% | 10,066 | 54488708 | 314749 | | |
| 80% | 13,119 | 71881166 | 419028 | | |
| 100% | 16,256 | 104999844 | 523579 | | |