



# INDOFINE Chemical Company, Inc.

121 Stryker Lane, Bldg. 30, Suite 1 • Hillsborough, NJ 08844 • U.S.A.

Phone: (908) 359-6778 • FAX: (908) 359-1179

website: [www.indofinechemical.com](http://www.indofinechemical.com)

e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## CERTIFICATE OF ANALYSIS

Catalog Number: P-001

Product Name: **PICROTOXIN**  
(Cocculin)

Cas Number: [124-87-8]

Lot Number: 1705811

Chemical Formula:  $C_{30}H_{34}O_{13}$

Molecular Weight: 602.59

Melting Point: 200-202°C

Appearance: White powder

Source: Natural from Anamirta cocculus seeds

TLC: Chloroform:Methanol (9:1) Two spots

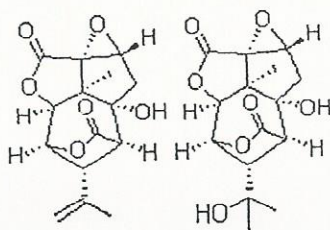
Solubility: Soluble in DMSO

Moisture (KF): 0.36%

NMR Spectrum: Enclosed (conforms to the structure)

Storage: Store in a cool, dry place

Purity(HPLC): 99.39%





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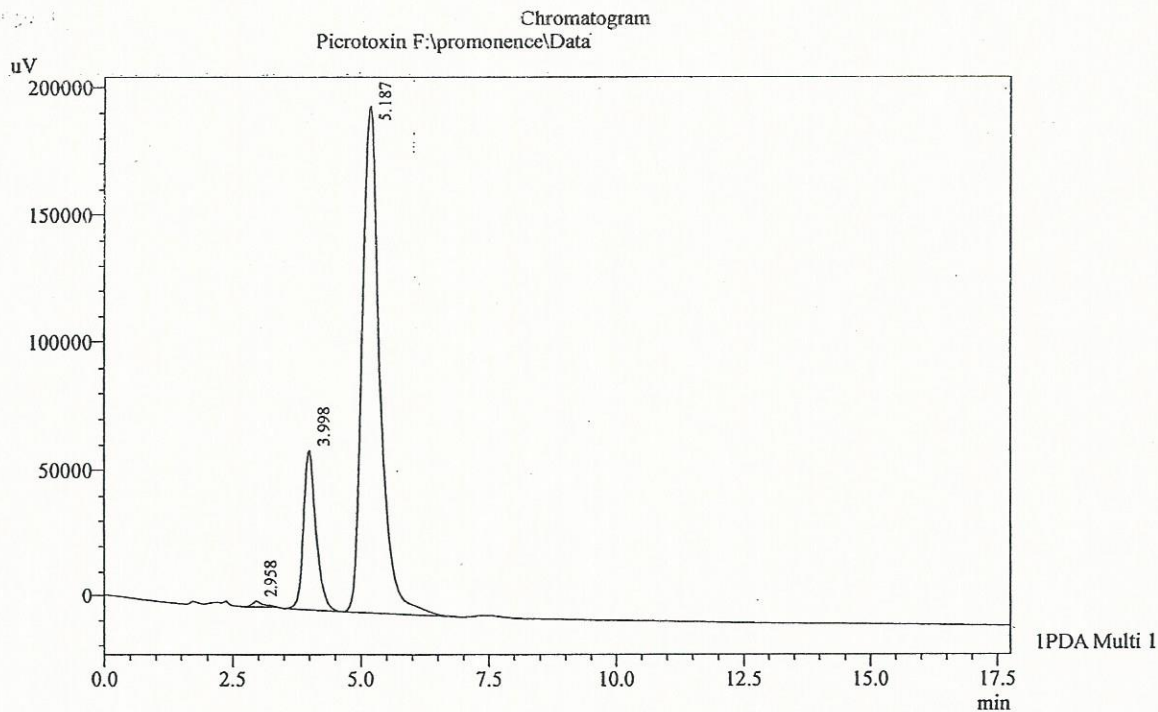
website: [www.indofinechemical.com](http://www.indofinechemical.com)

e-mail: [chemical@indofinechemical.com](mailto:chemical@indofinechemical.com)

## HPLC ANALYSIS

Acquired by : Admin  
Sample Name : Picrotoxin  
Sample ID : 1105 gm Lot  
Injection Volume : 20 uL  
Data Filename : 050517D.lcd  
Method Filename : Linear Isocratic.M.lcm  
Report Filename : Default.lcr

Catalog No.: P-001  
Product Name: Picrotoxin  
Lot No.: 1705811



1 PDA Multi 1 / 200nm 4nm

PeakTable

PDA Ch1 200nm 4nm

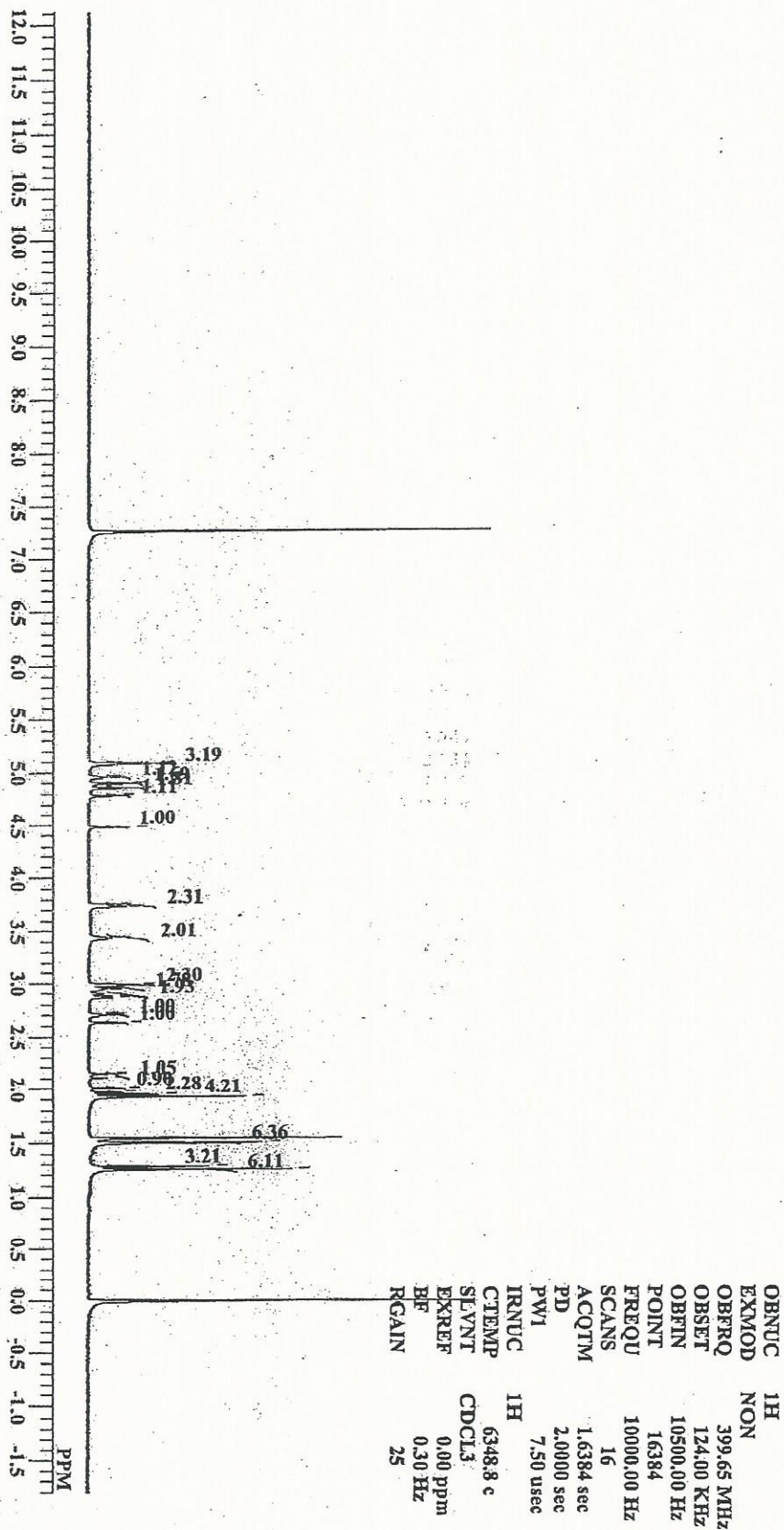
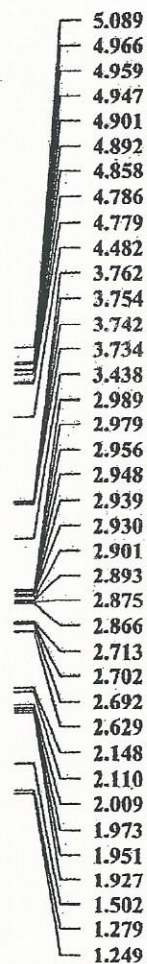
| Peak# | Name     | Ret. Time | Height | Area % | Relative Retention Time |
|-------|----------|-----------|--------|--------|-------------------------|
| 1     | RT:2.958 | 2.958     | 2272   | 0.60   | 0.00                    |
| 2     | RT:3.998 | 3.998     | 63617  | 18.26  | 0.00                    |
| 3     | RT:5.187 | 5.187     | 199690 | 81.13  | 0.00                    |
| Total |          |           | 265580 | 100.00 |                         |



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Catalog No.: P-001  
Product Name: Picotoxin  
Lot No.: 1705811

17 1H NMR CDC13



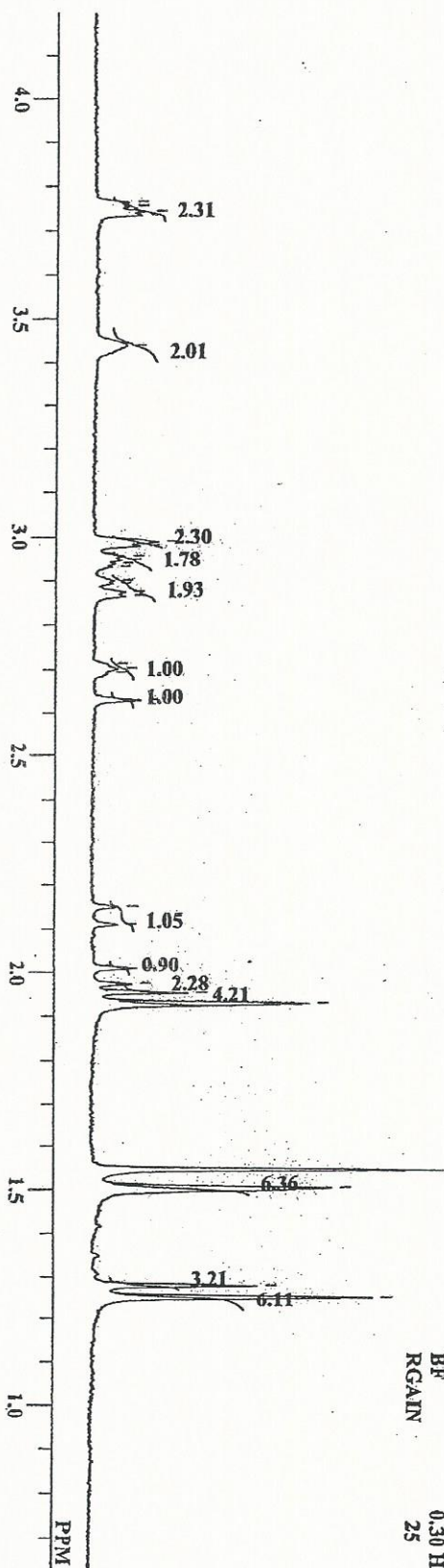
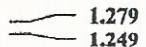
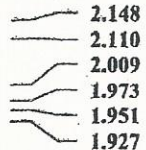
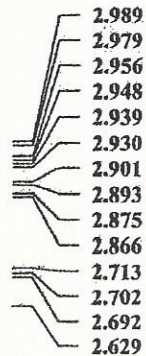
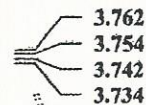




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Catalog No.: P-001  
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Lot No.: 1705811

17 1H NMR CDCl3



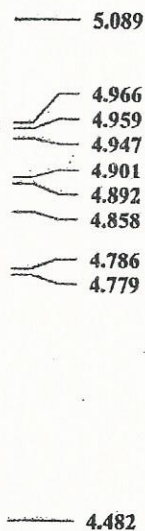
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EXMOD NON  
OBFRO 399.65 MHz  
OBSET 124.00 KHz  
OBFIN 10500.00 Hz  
POINT 16384  
FREQU 10000.00 Hz  
SCANS 16  
ACQTM 1.6384 sec  
PD 2.0000 sec  
PW1 7.50 usec  
IRNUC 1H  
CTEMP 6348.8 c  
SLVNT CDCl3  
EXREF 0.00 ppm  
BF 0.30 Hz  
RGAIN 25



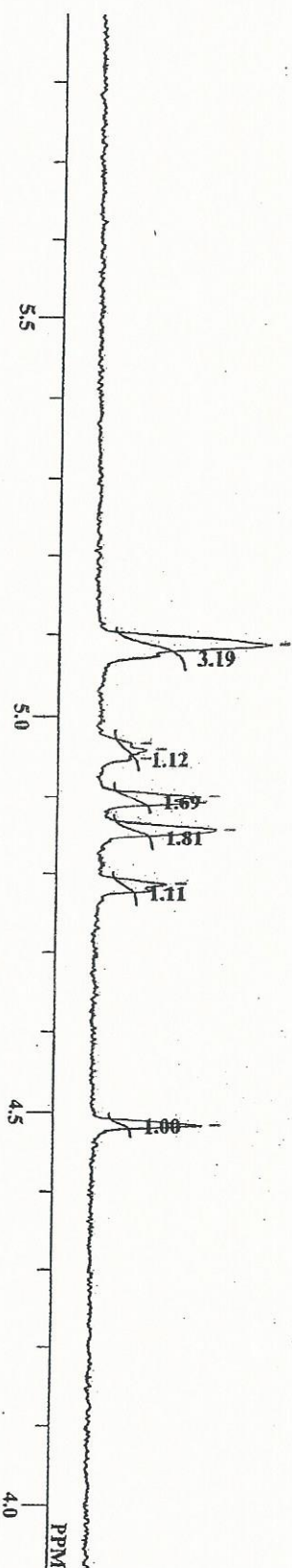
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17 1H NMR CDCl3



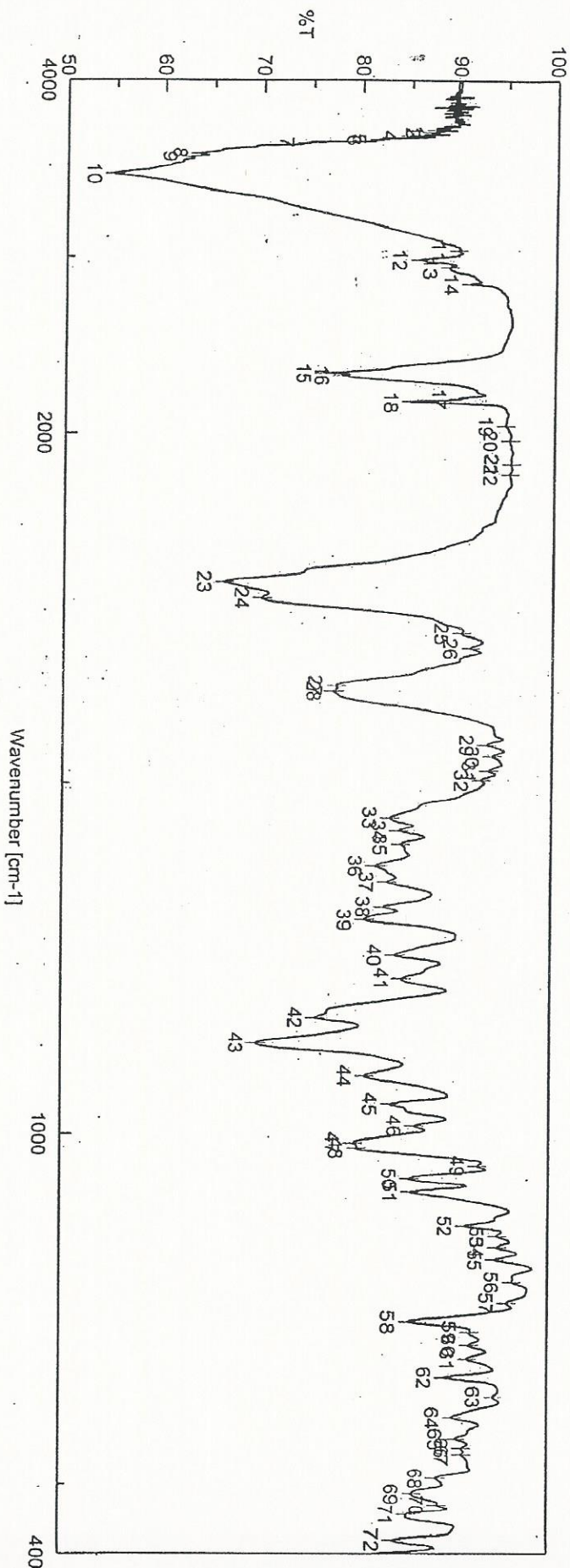
|       |             |
|-------|-------------|
| ORNUC | 1H          |
| EXMOD | NON         |
| OBFRQ | 399.65 MHz  |
| OBSET | 124.00 KHz  |
| OBFIN | 10500.00 Hz |
| POINT | 16384       |
| FREQU | 10000.00 Hz |
| SCANS | 16          |
| ACQTM | 1.6384 sec  |
| PD    | 2.0000 sec  |
| PWL   | 7.50 usec   |
| IRNUC | 1H          |
| CTEMP | 6348.8 c    |
| SLVNT | CDCL3       |
| EXREF | 0.00 ppm    |
| BF    | 0.30 Hz     |
| RGAIN | 25          |





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Lot No.: 1705811



Comment KBr Pellet  
User NIHARIKA  
Division QC

[Data Information]

Data array type Linear data array  
Horizontal Wavenumber [cm-1]  
Vertical %T  
Start 349.053 cm-1  
End 7800.65 cm-1  
Data pitch 0.964233 cm-1  
Data points 7729

| Peak Picking |          |           |  |
|--------------|----------|-----------|--|
| No.          | Position | Intensity |  |
| 1            | 3720.0   | 87.345    |  |
| 6            | 3656.4   | 80.982    |  |
| 11           | 3035.4   | 89.798    |  |
| 16           | 2339.2   | 78.048    |  |
| 21           | 1953.5   | 95.528    |  |
| 26           | 1694.2   | 91.498    |  |
| 31           | 1516.7   | 93.492    |  |
| 36           | 1382.7   | 81.972    |  |
| 41           | 1219.8   | 84.708    |  |
| 46           | 1011.5   | 86.079    |  |
| 51           | 915.1    | 85.740    |  |
| 56           | 783.9    | 96.277    |  |
| 61           | 678.8    | 91.730    |  |
| 66           | 553.5    | 91.191    |  |
| 71           | 453.2    | 85.521    |  |
| 2            | 3706.5   | 86.969    |  |
| 7            | 3642.9   | 74.261    |  |
| 12           | 2987.2   | 85.818    |  |
| 17           | 2200.4   | 90.018    |  |
| 22           | 1939.1   | 95.413    |  |
| 27           | 1641.1   | 77.765    |  |
| 32           | 1503.2   | 92.714    |  |
| 37           | 1359.6   | 83.149    |  |
| 42           | 1164.8   | 75.953    |  |
| 47           | 987.4    | 79.863    |  |
| 52           | 866.8    | 91.390    |  |
| 57           | 754.0    | 95.737    |  |
| 62           | 652.8    | 89.405    |  |
| 67           | 542.9    | 91.236    |  |
| 72           | 418.5    | 84.099    |  |
| 3            | 3697.8   | 87.007    |  |
| 8            | 3582.1   | 63.430    |  |
| 13           | 2940.9   | 88.953    |  |
| 18           | 2179.2   | 85.110    |  |
| 23           | 1788.7   | 66.367    |  |
| 28           | 1632.4   | 77.599    |  |
| 33           | 1451.2   | 83.404    |  |
| 38           | 1322.9   | 82.816    |  |
| 43           | 1127.2   | 69.937    |  |
| 48           | 979.7    | 80.210    |  |
| 53           | 850.5    | 94.731    |  |
| 58           | 729.0    | 85.615    |  |
| 63           | 624.8    | 94.428    |  |
| 68           | 509.1    | 88.536    |  |
| 4            | 3685.3   | 84.624    |  |
| 9            | 3561.9   | 62.441    |  |
| 14           | 2852.2   | 91.148    |  |
| 19           | 2040.3   | 94.890    |  |
| 24           | 1765.5   | 70.193    |  |
| 29           | 1554.3   | 93.257    |  |
| 34           | 1432.9   | 84.305    |  |
| 39           | 1304.6   | 80.858    |  |
| 44           | 1079.9   | 80.997    |  |
| 49           | 953.6    | 92.622    |  |
| 54           | 835.0    | 94.730    |  |
| 59           | 715.5    | 91.933    |  |
| 64           | 595.9    | 90.202    |  |
| 69           | 485.0    | 86.110    |  |
| 5            | 3664.1   | 81.504    |  |
| 10           | 3463.5   | 54.697    |  |
| 15           | 2353.7   | 76.273    |  |
| 20           | 1988.2   | 95.362    |  |
| 25           | 1715.4   | 90.567    |  |
| 30           | 1537.0   | 93.868    |  |
| 35           | 1413.6   | 84.462    |  |
| 40           | 1253.5   | 83.995    |  |
| 45           | 1041.4   | 83.619    |  |
| 50           | 934.3    | 85.641    |  |
| 55           | 816.7    | 94.548    |  |
| 60           | 697.1    | 91.864    |  |
| 65           | 567.0    | 90.565    |  |
| 70           | 468.6    | 88.695    |  |