



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

e-mail: chemical@indofinechemical.com

CERTIFICATE OF ANALYSIS

Catalog Number: P-004

Product Name: **PIPERLONGUMINE**
(Piplartine)

CAS Number: [20069-09-4]

Lot No.: 2009464

Molecular Formula: C₁₇H₁₉NO₅

Molecular Weight: 317.34

Melting Point: 123-125°C

Appearance: Off white to beige powder

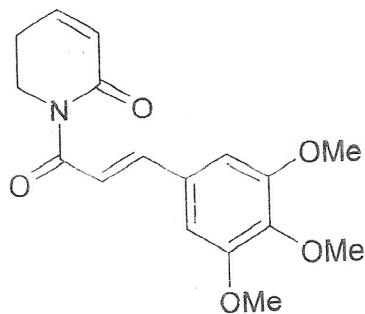
Solubility: Soluble in Chloroform

NMR Spectrum: Enclosed (conforms to the structure)

TLC: Hexane:Ethyl acetate (7:3)

Water content(KF): 0.08%

Purity(HPLC): 99.52%



Prepared by:
Ramesh Mandadi
Ramesh Mandadi
Director of Operations

Reviewed and Approved by:
Sujata Moton
Sujata Moton
VP



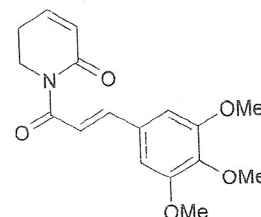
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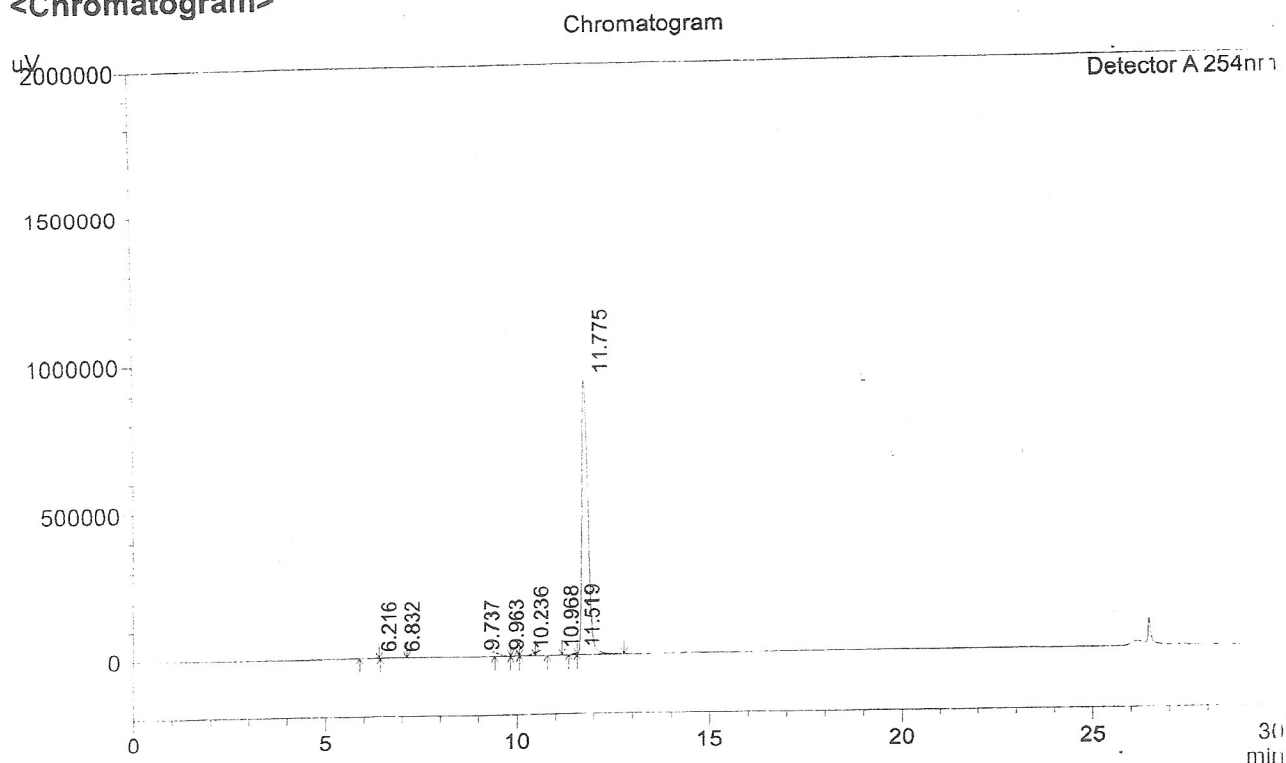
HPLC ANALYSIS

Data Filename : 25052020159.lcd
Method Filename : Piperlongumine.lcm
Vial # : 1-2
Injection Volume : 10 uL

Catalog No.: P-004
Product Name: Piperlongumine
Lot No.: 2009464

Column: Inertsil ODS-2 : 250mm x 4.6mm, 5.0um
MP-A: Acetonitrile, MP-B: 10mM Ammonium acetate in water
Flow Rate: 1.0 ml/min,
Gradient program : 0.01/90, 12/10, 20/10, 23/90, 30/10 (% of A Conc)
Diluent: Acetonitrile (8 mg/25ml in diluent)
Acquired by: Sanjeev

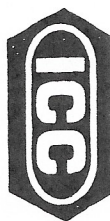
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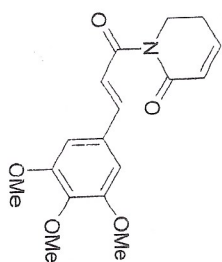
<Peak Table>

Detector A 254nm

Peak#	Name	Ret. Time	Area	Area%	Relative Retention Time
1		6.216	3103	0.03	0.53
2		6.832	3938	0.04	0.58
3		9.737	3983	0.04	0.83
4		9.963	2344	0.02	0.85
5		10.236	6354	0.06	0.87
6		10.968	3882	0.04	0.93
7		11.519	24951	0.24	0.98
8		11.775	10136601	99.52	1.00
Total			10185157	100.00	

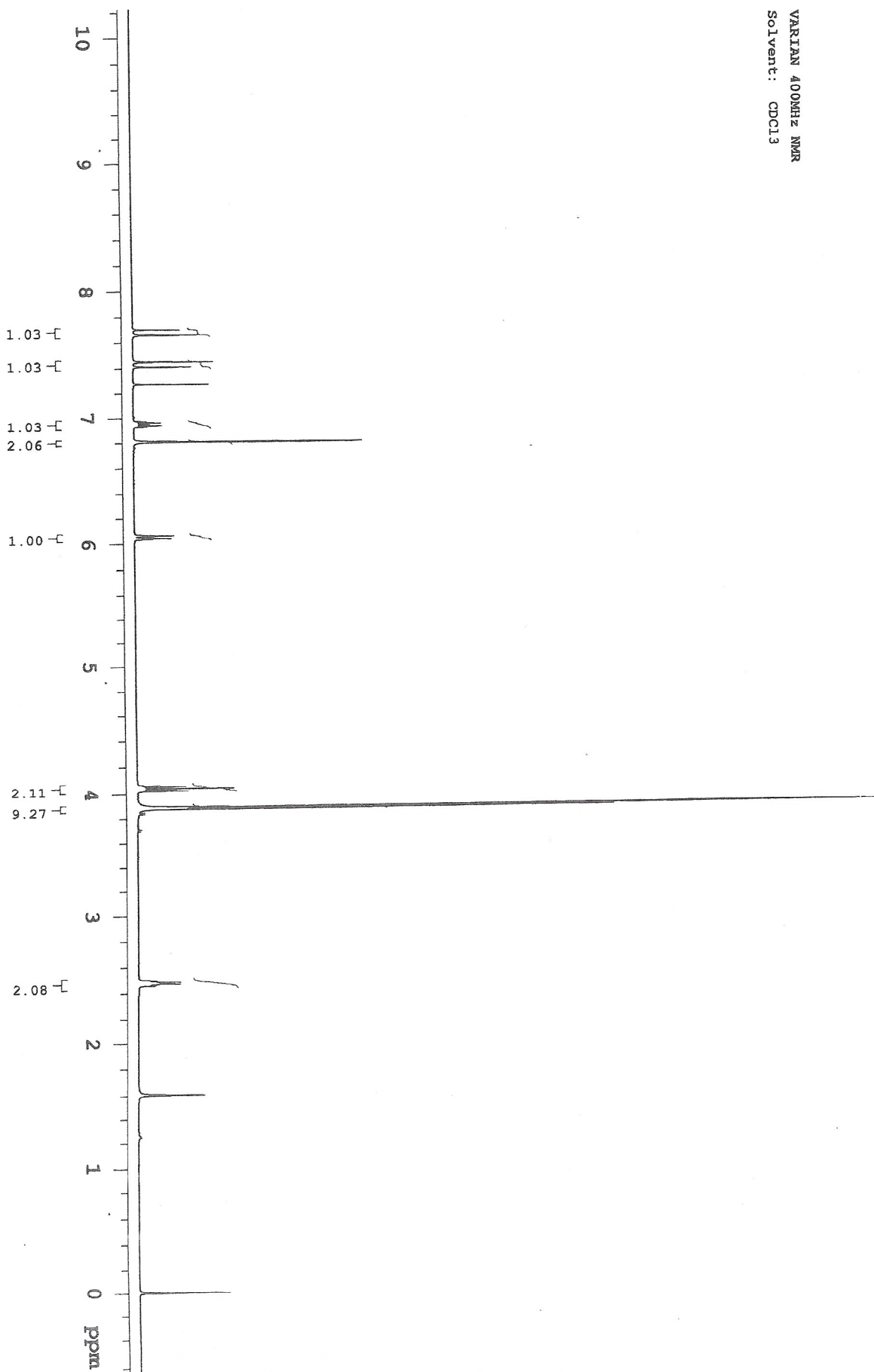


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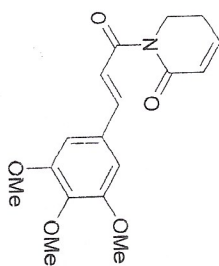
Catalog No.: P-004
Product Name: Piperlongumine
Lot No.: 2009464

VARIAN 400MHz NMR
Solvent: CDCl₃



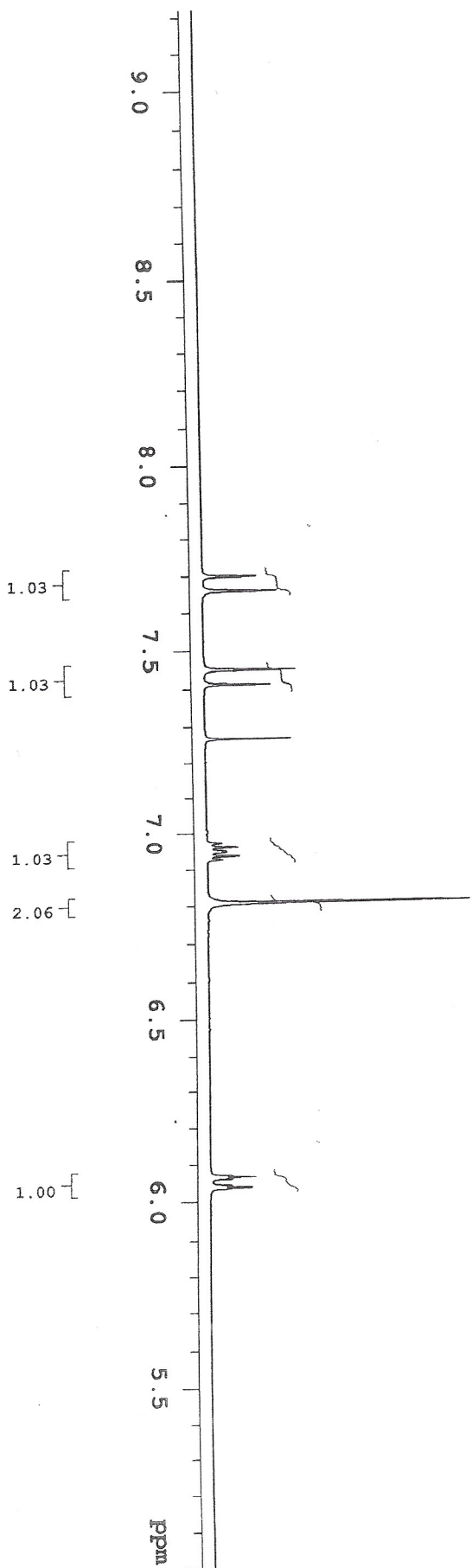
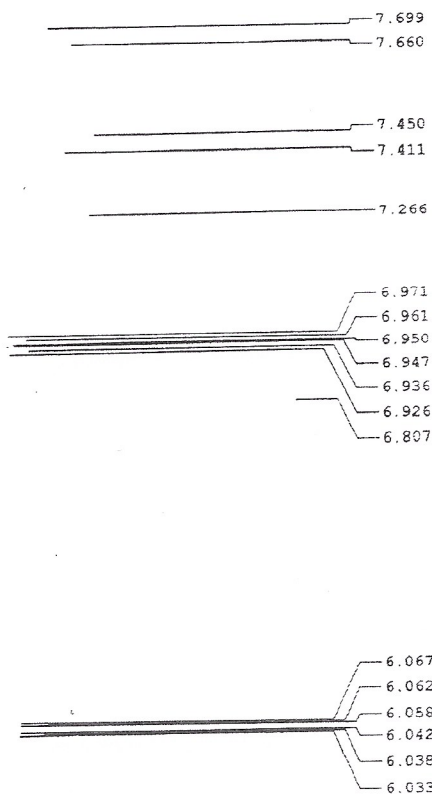


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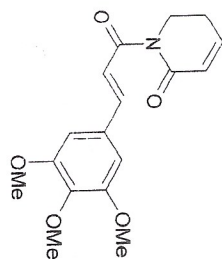
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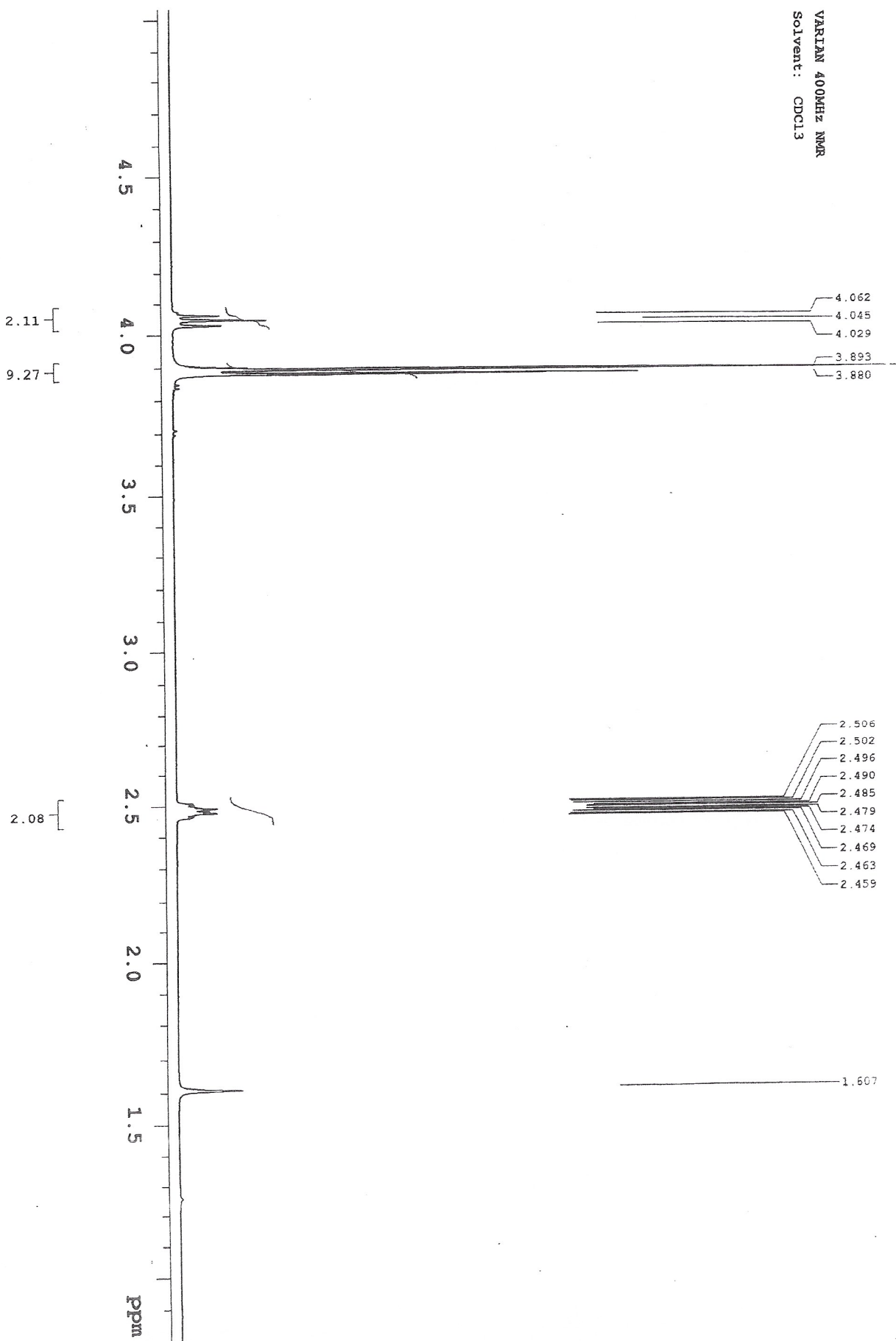




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