

Razia S, Misbahuddin M. Effects of solasodine of *Solanum melongena* peel origin in the treatment of palmar arsenical keratosis. Bangladesh J Pharmacol. 2020; 13: 57.

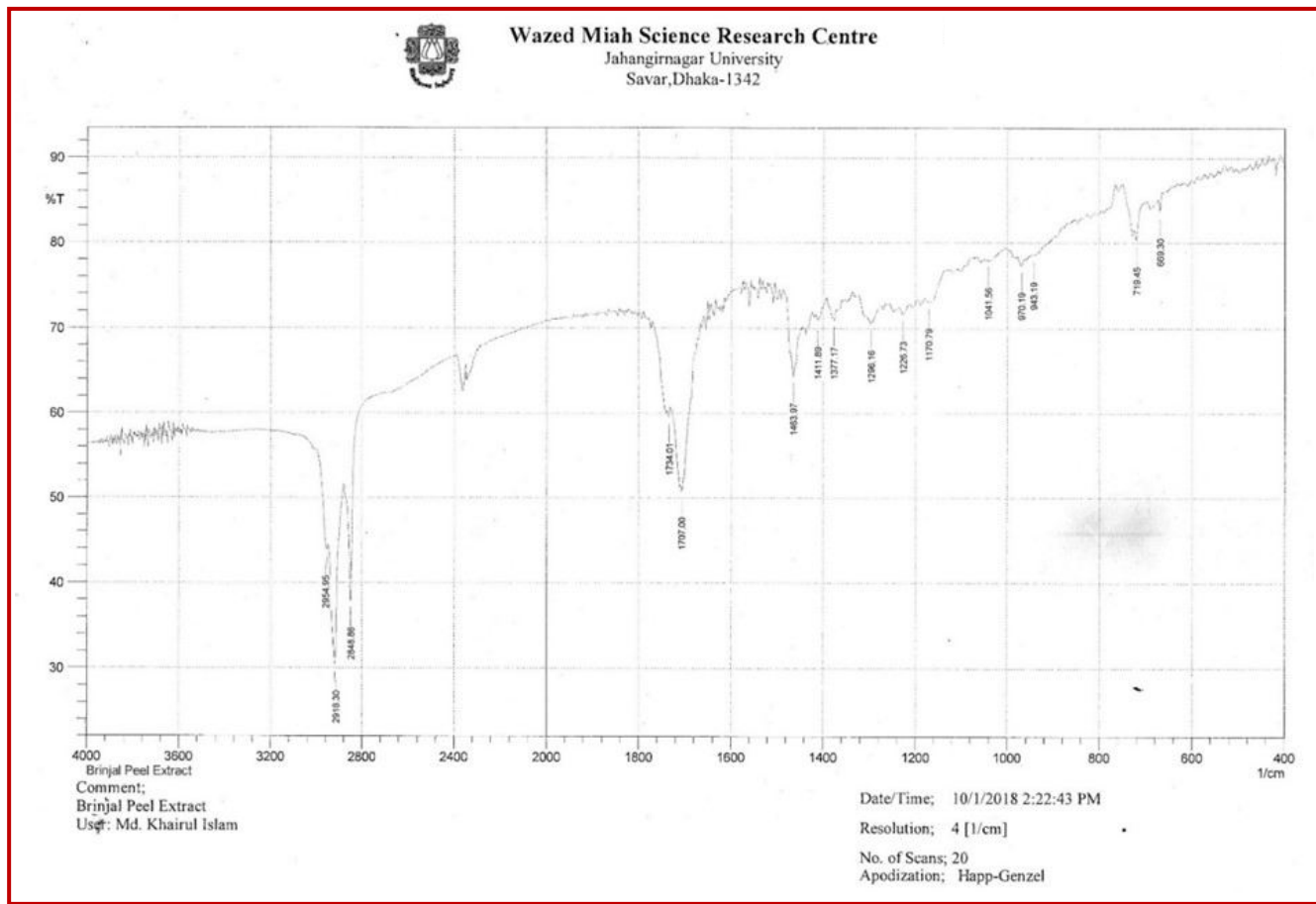
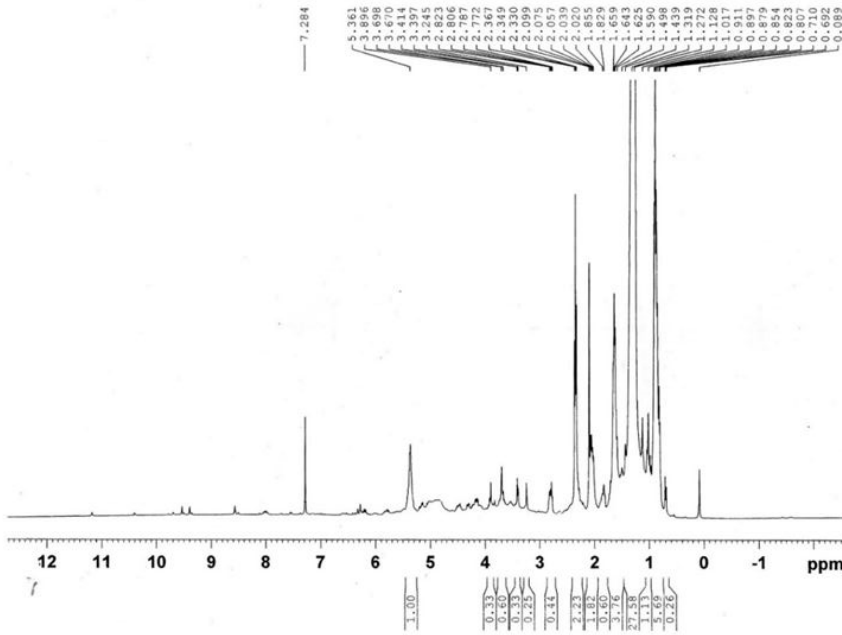


Figure 1: FTIR spectra of *S. melongena* peel extract

Wazed Miah Science Research Centre (WMSRC)  
 Jahangirnagar University  
 Sample: Brinjal\_3  
 Operated by: Md. Emdad Hossain, Scientist



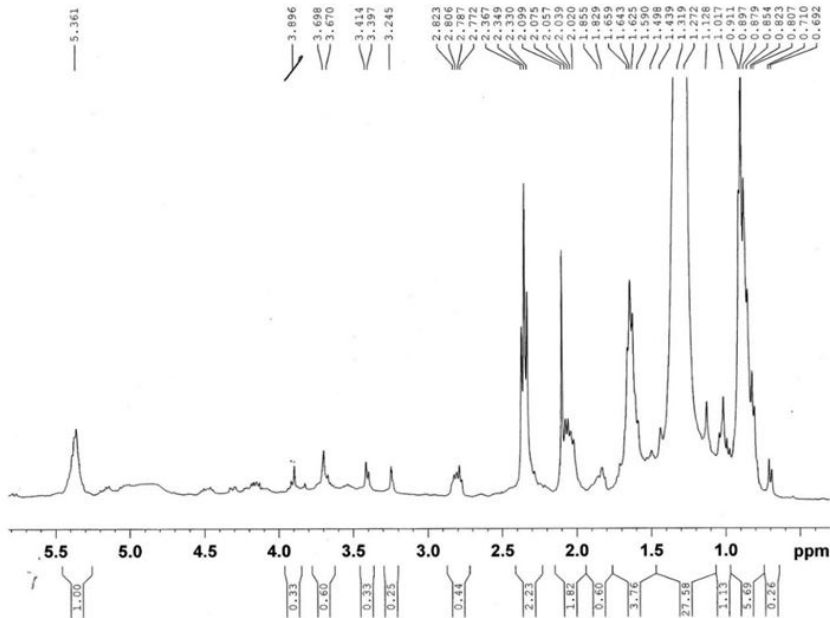
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 EXPNO 3  
 PROCNO 1

F2 - Acquisition Parameters  
 Date 20181003  
 Time 9.59  
 INSTRUM spect  
 PROBHD 5 mm PABBO BB/  
 PULPROG zg  
 TD 65536  
 SOLVENT CDCl3  
 NS 16  
 DS 0  
 SWH 8012.820 Hz  
 FIDRES 0.122266 Hz  
 AQ 4.0894465 sec  
 RG 36.81  
 DW 62.400 usec  
 DE 6.50 usec  
 TE 301.0 K  
 D1 2.00000000 sec  
 TDO 1

----- CHANNEL f1 -----  
 SF01 400.2320011 MHz  
 NUC1 1H  
 P1 11.20 usec  
 PLW1 12.00000000 W

F2 - Processing parameters  
 SI 131072  
 SF 400.2300000 MHz  
 WDW EM  
 SSB 0  
 LB 1.00 Hz  
 GB 0  
 PC 1.00

Wazed Miah Science Research Centre (WMSRC)  
 Jahangirnagar University  
 Sample: Brinjal\_3  
 Operated by: Md. Emdad Hossain, Scientist



Current Data Parameters  
 NAME BSMU\_Brinjal\_3  
 EXPNO 3  
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F2 - Acquisition Parameters  
 Date 20181003  
 Time 9.59  
 INSTRUM spect  
 PROBHD 5 mm PABBO BB/  
 PULPROG zg  
 TD 65536  
 SOLVENT CDCl3  
 NS 16  
 DS 0  
 SWH 8012.820 Hz  
 FIDRES 0.122266 Hz  
 AQ 4.0894465 sec  
 RG 36.81  
 DW 62.400 usec  
 DE 6.50 usec  
 TE 301.0 K  
 D1 2.00000000 sec  
 TDO 1

----- CHANNEL f1 -----  
 SF01 400.2320011 MHz  
 NUC1 1H  
 P1 11.20 usec  
 PLW1 12.00000000 W

F2 - Processing parameters  
 SI 131072  
 SF 400.2300000 MHz  
 WDW EM  
 SSB 0  
 LB 1.00 Hz  
 GB 0  
 PC 1.00

Figure 2: <sup>1</sup>H NMR of the extract

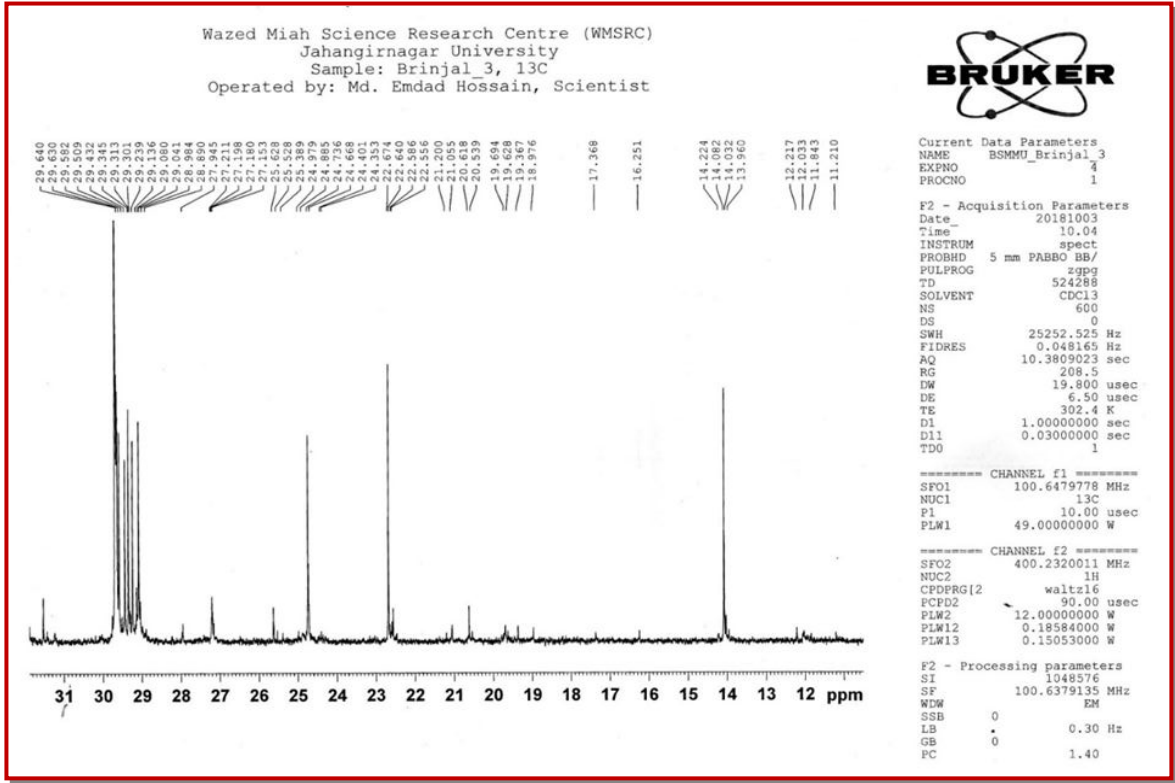
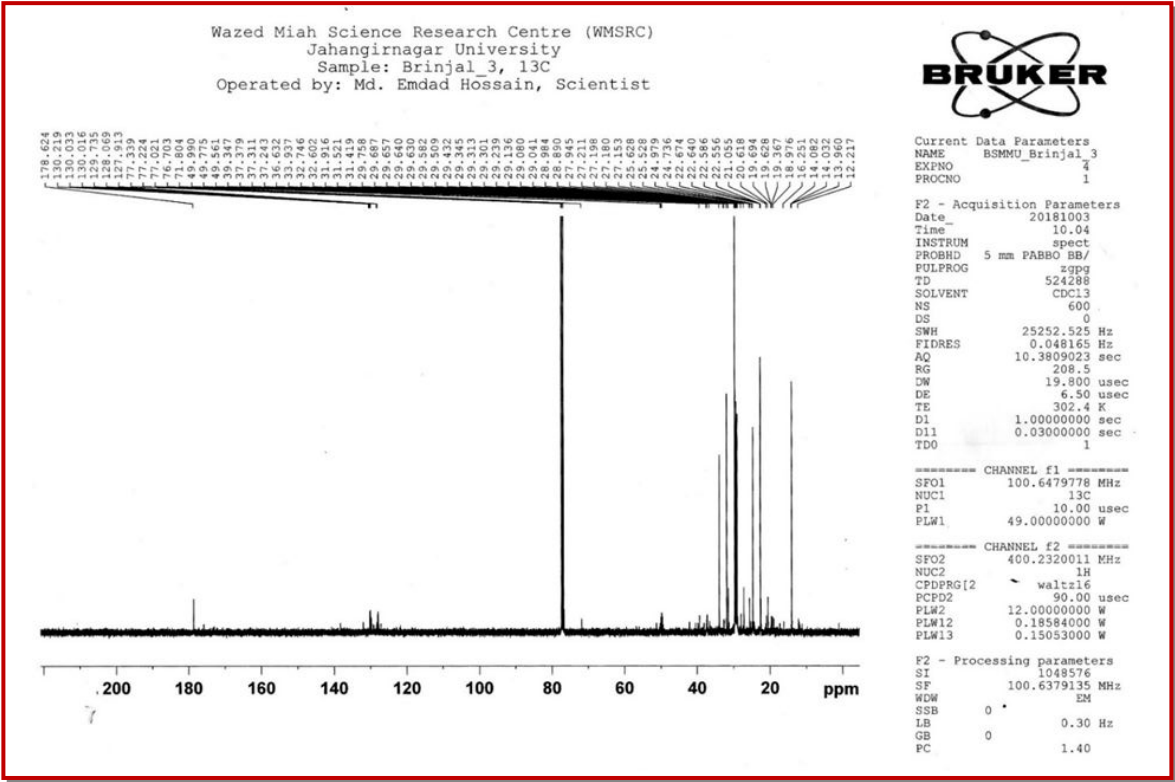


Figure 3: <sup>13</sup>C NMR of the extract

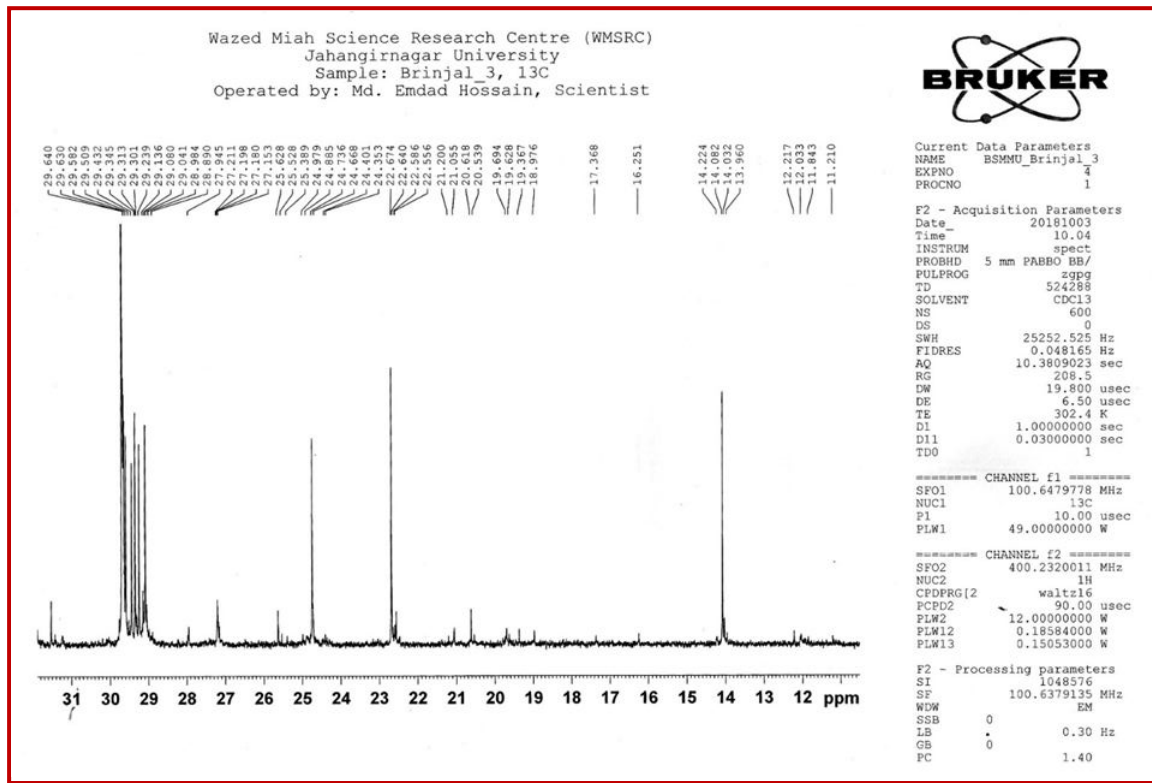
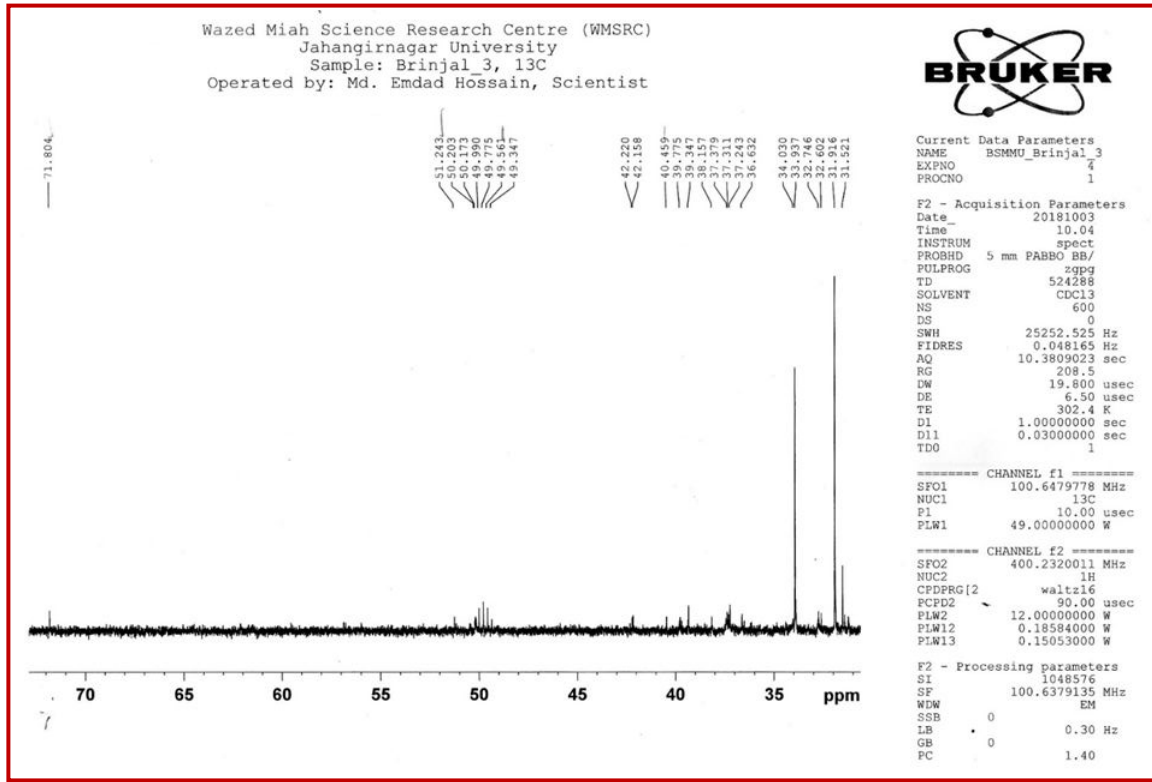


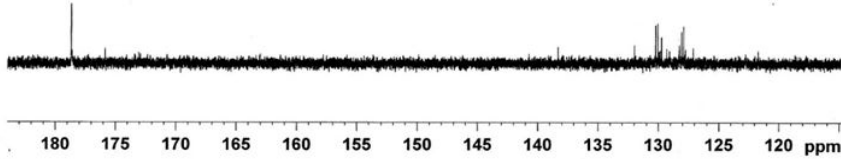
Figure 3: <sup>13</sup>C NMR of the extract (Cont.)

Wazed Miah Science Research Centre (WMSRC)  
Jahangirnagar University  
Sample: Brinjal\_3, 13C  
Operated by: Md. Emdad Hossain, Scientist



176.624  
175.833

138.237  
131.963  
130.719  
130.529  
130.033  
130.016  
129.888  
129.875  
129.705  
128.233  
128.227  
128.227  
127.993  
127.751  
127.126



Current Data Parameters  
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EXPNO 4  
PROCNO 1

F2 - Acquisition Parameters  
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Time\_ 10.04  
INSTRUM spect  
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PULPROG zgpg  
TD 524288  
SOLVENT CDCl3  
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DS 0  
SWH 25252.525 Hz  
FIDRES 0.048165 Hz  
AQ 10.3809023 sec  
RG 208.5  
DW 19.800 usec  
DE 6.50 usec  
TE 302.4 K  
D1 1.0000000 sec  
D11 0.0300000 sec  
TDO 1

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SFO1 100.6479778 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 49.0000000 W

===== CHANNEL f2 =====  
SFO2 400.2320011 MHz  
NUC2 1H  
CPDPRG2 waltz16  
PCPD2 90.00 usec  
PLW2 12.0000000 W  
PLW12 0.18584000 W  
PLW13 0.15053000 W

F2 - Processing parameters  
SI 1048576  
SF 100.6379135 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
FC 1.40

Figure 3: <sup>13</sup>C NMR of the extract (Cont.)

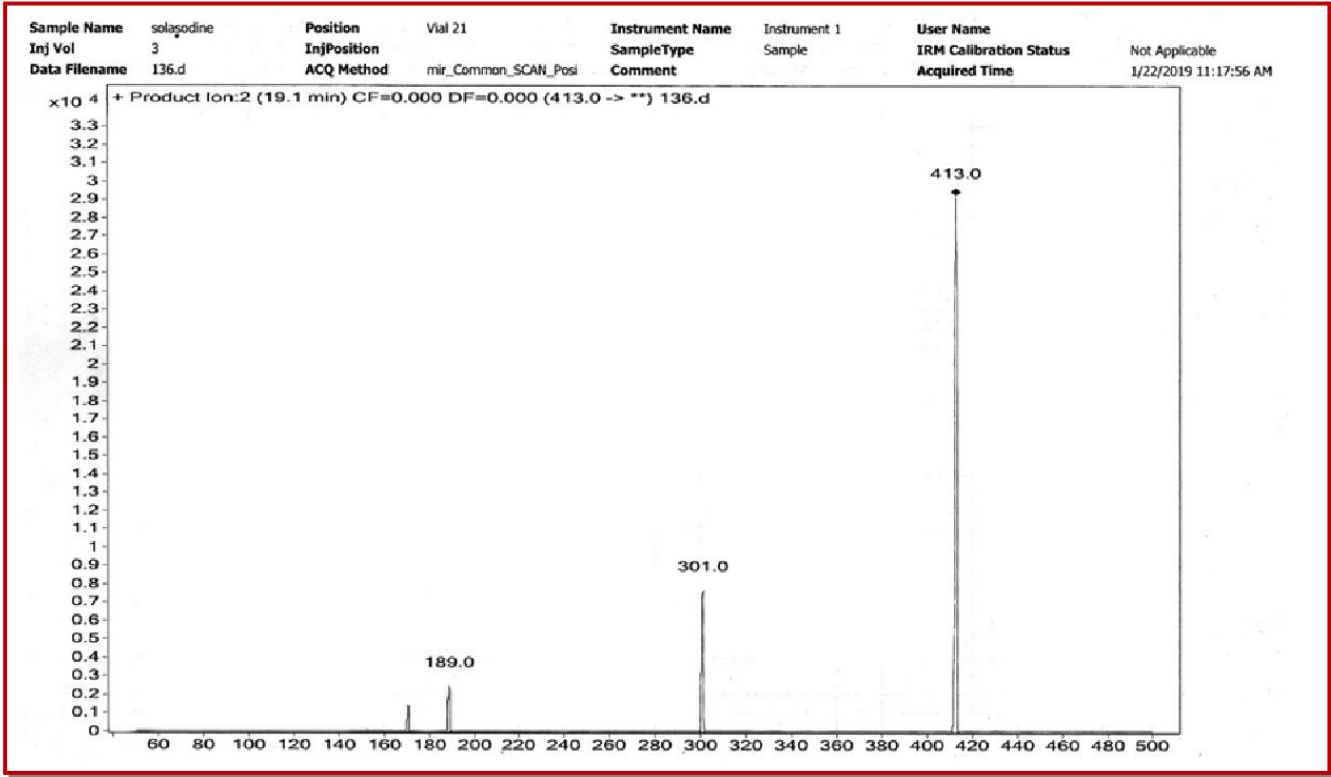


Figure 4: Liquid chromatography-mass spectroscopy of the extract





জীবনের জন্য বিজ্ঞান

"শেখ হাসিনার দর্শন, সব মানুষের উন্নয়ন"

বাংলাদেশ বিজ্ঞান ও শিল্প গবেষণা পরিষদ (বিসিএসআইআর)  
BANGLADESH COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (BCSIR)

Institute Name: Institute of National Analytical Research & Service (INARS)

### Analysis Report

Analytical Service Cell Ref No: Oct2018013095

Unit (Lab/Inst.) Ref No: INS-957

Lab ID: INS-957

Sample Receiving Date: 04/11/2018

Sample ID: A-957

Submission Date: 31 Oct 2018

Report Delivery Date: 12/11/2018

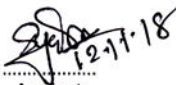
Sample Description: Sample : Brinjal peel extract

Client's Details: Dr. Razia Sultana  
Bangabandhu Sheikh Mujib Medical University  
House#, , -


Number of Sample: 1

### Report Details:

Lab ID	Particulars of supplied Sample	Parameters	Concentration	Test Method
A-957	Brinjal peel extract	Carbon (C)	67.8%	Elemental Analyzer
		Hydrogen (H)	11.9%	Elemental Analyzer
		Nitrogen (N)	0.44%	Elemental Analyzer

  
12.11.18  
Analyst  
ড. সাবিনা ইয়াসমিন  
বৈজ্ঞানিক কর্মকর্তা  
ইনস্টিটিউট অব শাপলা এনালিটিক্যাল  
রিসার্চ এন্ড সার্ভিস (আইএনএআরএস)  
বিসিএসআইআর, ঢাকা-5২০৫।

  
12.11.18  
Section/Division In-Charge  
শামীম আহমেদ  
উর্ধ্বতন বৈজ্ঞানিক কর্মকর্তা  
ইনস্টিটিউট অব শাপলা এনালিটিক্যাল  
রিসার্চ এন্ড সার্ভিস (আইএনএআরএস)  
বিসিএসআইআর, ঢাকা

  
12.11.2018  
In-Charge/Director  
Md. A. Rashed Khan  
Director (Addl. Charge)  
Institute of National Analytical  
Research & Service (INARS)  
BCSIR, Dhaka.



### Note:

- The results reported here pertained to the sample received in this laboratory only.
- Complain and/or query regarding delivered test report should be lodged within one month of report delivery date.
- The laboratory is not responsible for the data quality affected due to sampling, transporting and storage conditions of the sample(s) maintained before received in the laboratory.
- The report shall not be reproduced/published partly or fully without prior approval of the authority.

### Analytical Service Cell

Dr. Qudrat-I-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh  
Telephone: 9671108, Fax: 88-02-9671108 E-mail: asc@bcsir.gov.bd Website: www.bcsir.gov.bd

Figure 5: Elemental analysis of *S. melongena* peel extract