

Certificate of Analysis

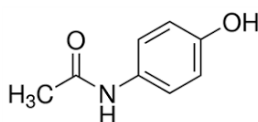
Paracetamol/Acetaminophen.

Product code:	BS10098.
Description:	Paracetamol/Acetaminophen.
Chemical Name:	4-Acetamidophenol.
Pack:	1 gm.
CAS NO.:	103-90-2.
Mol. Formula:	C ₈ H ₉ NO ₂ .
Mol. Weight:	151.17 g/mol.
MDL Number:	MFCD00002328.
Melting point:	169 °C.
Boiling Point:	273.17 °C.
Density:	1.293 g/cm ³ .
Solubility:	Soluble in water.
Storage:	Store at 2-8°C Refrigerator.
Batch No:	BS10098/03.
Manufacture Date:	03/10/2024.
Expiry Date:	02/10/2027.

Test	Specification	Measured Values
Appearance:	White to almost white powder to crystal.	White powder
Identification by NMR:	Confirms to the structure.	Confirms to the structure.
Identification by MASS:	Confirms to the structure.	Confirms to the structure.
Identification by IR:	Confirms to the structure.	Confirms to the structure.
Purity by HPLC:	>95%.	99.96%.
TGA:	<5%.	0%.
Potency:	-	99.96% - 0% = 99.96%.

Please Note: - This material is only for laboratory purpose and not for human consumption. This is a computer generated COA, no stamp or signature is required.

Note: Revised CoA – updated format (no change in batch data).



N. Bharathi.
Quality Control.

N.S. Mallika.
Quality Assurance.

SAMPLE INFORMATION

Sample Name:	BS10098-03	Acquired By:	INSTRUMENT ID:SA/AD/INS/021
Sample Type:	Unknown	Sample Set Name:	04_10_2024_HPLC2_MNG_SEQ
Vial:	6	Acq. Method Set:	HPLC PURITY NEW2 12
Injection #:	1	Processing Method:	LC PQ
Injection Volume:	3.00 ul	Channel Name:	245.0nm@1
Run Time:	24.0 Minutes	Proc. Chnl. Descr.:	PDA 245.0 nm
Date Acquired:	10/5/2024 12:17:38 AM IST		
Date Processed:	10/5/2024 9:44:12 AM IST		

METHOD INFORMATION:

BUFFER :

A :0.1%TFA IN WATER

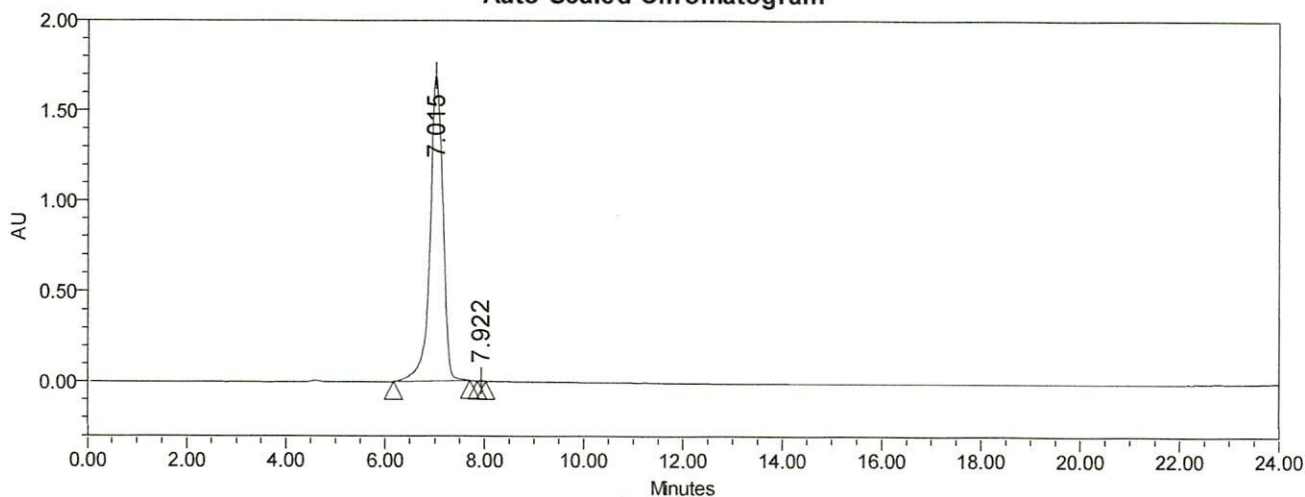
B: ACN: WATER (90:10)V/V

COLUMN: PRUDENT C18(250*4.6*5µm)

GRADIENT PROG:-T/B;0/10,3/10,10/100,19/100,19.5/10,24/10

FLOW:ml/min-1.0

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area	% Area
1		7.015	30101869	99.96

Reported by User: Analyst (Analyst)

Report Method: HPLC 21

Report Method ID 2577

Page: 1 of 2

Project Name: 2024\OCTOBER-24

Date Printed:

10/5/2024

9:51:56 AM Asia/Calcutta

Handwritten signature
05/10/2024

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05/10/2024

Peak Results

	Name	RT	Area	% Area
2		7.922	13128	0.04

Reported by User: Analyst (Analyst)
Report Method: HPLC 21
Report Method ID 2577
Page: 2 of 2

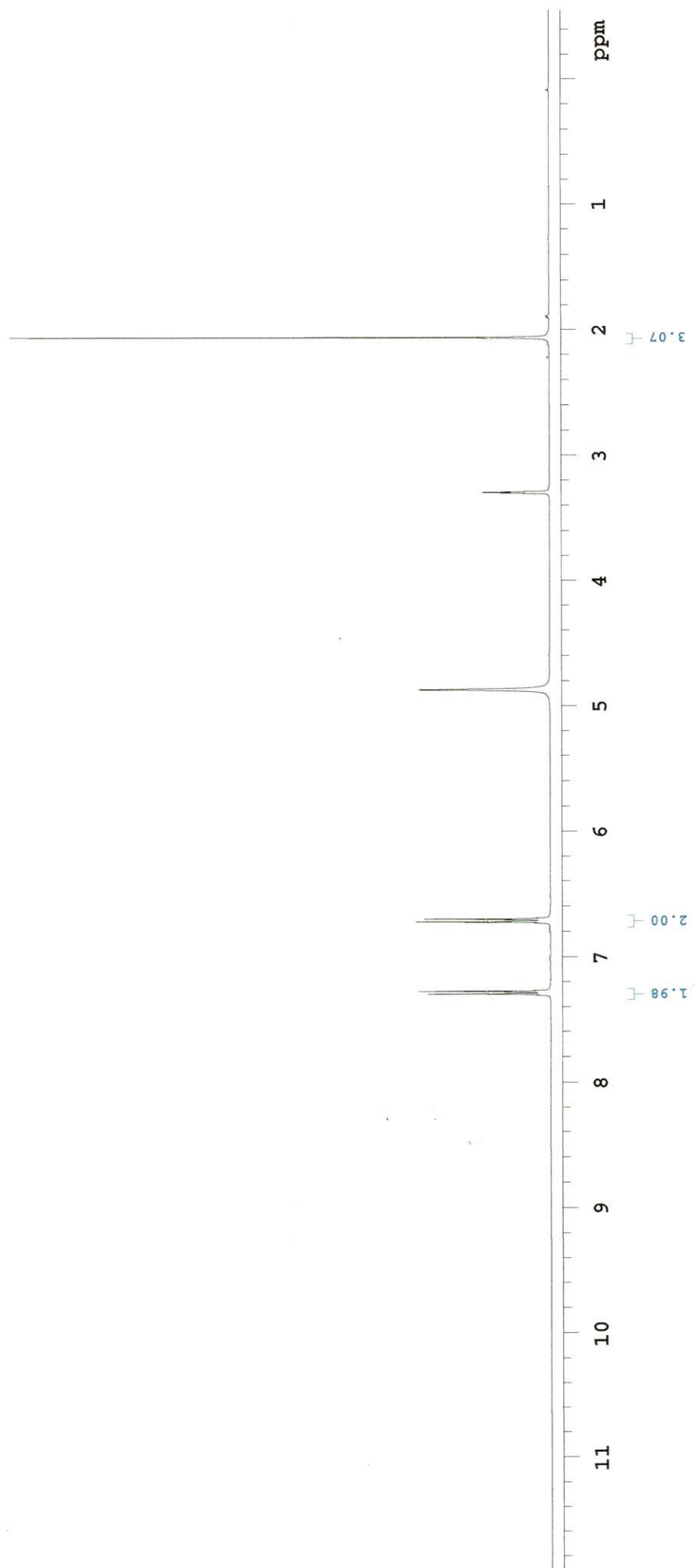
Project Name: 2024\OCTOBER-24
Date Printed:
10/5/2024
9:51:56 AM Asia/Calcutta


05/10/2024


05/10/2024

Sample Code: BS10098-03

Solvent: CD3OD
VARIAN 400MHz NMR
Date: Oct 4 2024
Instrument ID: SA/AD/INS/001

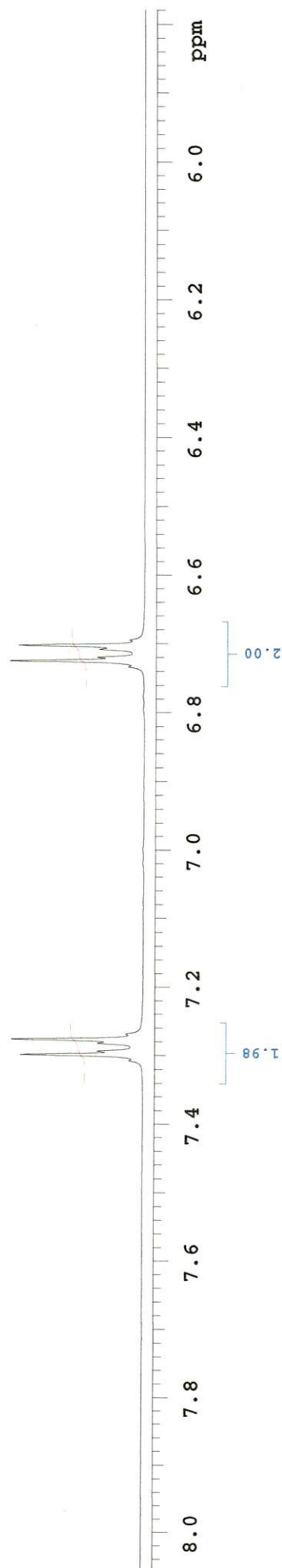


Plotname: BS10098-03_PROTON_20241004_01_plot01

Handwritten signatures and dates:
Top right: *BS* 09/10/2024
Bottom right: *BS* 09/10/2024

Sample Code: BS10098-03

Solvent: CD3OD
VARIAN 400MHz NMR
Date: Oct 4 2024
Instrument ID: SA/AD/INS/001



Plotname: BS10098-03_PROTON_20241004_01_plot02

04/10/2024

04/10/2024

Sample Code: BS10098-03

Solvent: CD3OD

VARIAN 400MHz NMR

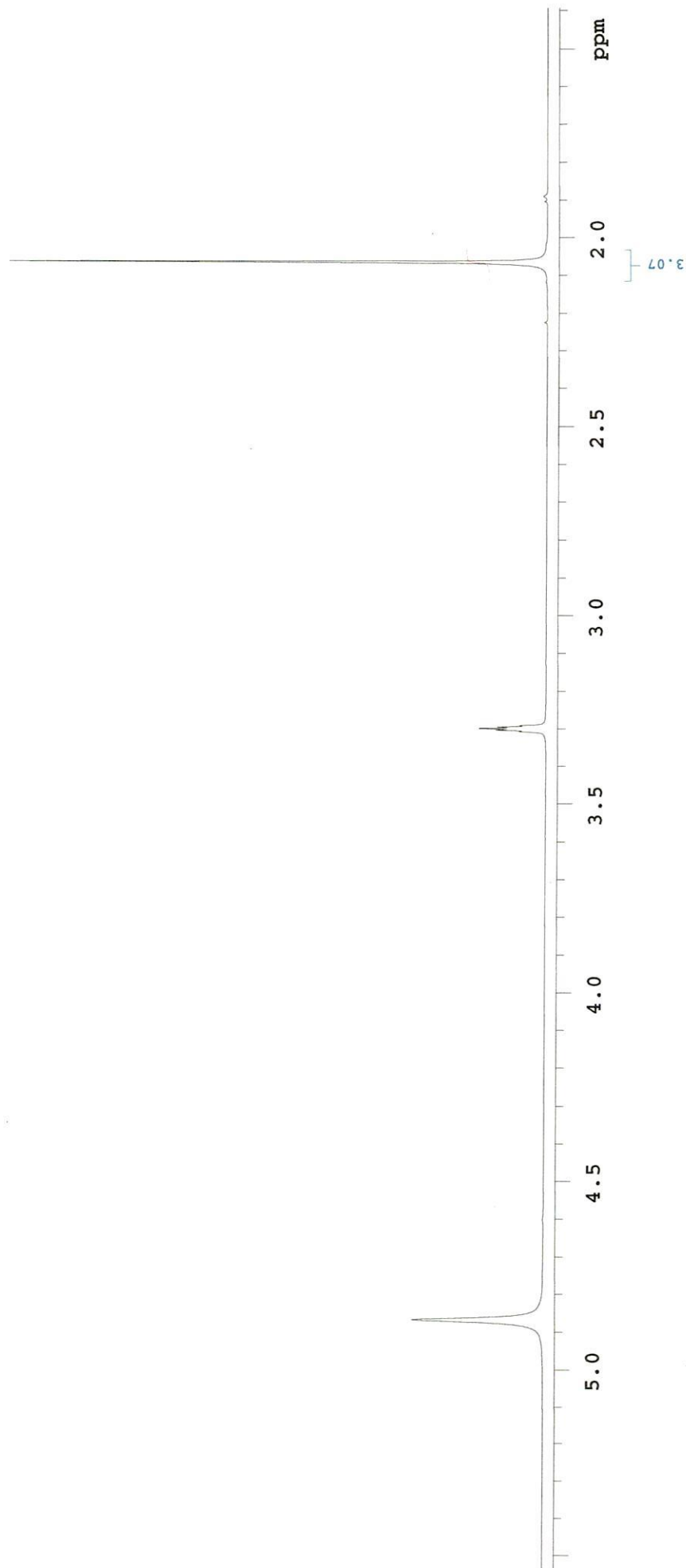
Date: Oct 4 2024

Instrument ID: SA/AD/INS/001

4.870

3.304
3.300
3.296

2.066



Plotname: BS10098-03_PROTON_20241004_01_plot03

24/10/2024

24/10/2024

exp1 PROTON

SAMPLE			PRESATURATION		
date	Oct 4 2024	satmode	n		
solvent	CD3OD	wet	n		
file	/home/varian/~		SPECIAL		
data/2024/Oct/BSE10~	temp		not	used	
098-03_20241004_01~	gain		44		
/BSE10098-03_PROTON~	spin		20		
_20241004_01.fid	hst		0.008		
ACQUISITION	pw90		23.100		
sw	7183.9	alfa	10.000		
at	4.000	flags			
np	57472	il	n		
fb	4000	in	n		
bs	2	dp	y		
d1	1.000	hs	nn		
nt	128		PROCESSING		
ct	16	lb	0.50		
TRANSMITTER					
tn	H1	fn	not	used	
sfrq	399.691	sp	DISPLAY		
tof	799.3	wp	-795.3		
tpwr	61	rfl	7183.7		
tpw	11.550	rfp	2114.5		
DECOUPLER					
dn	C13	lp	1319.0		
dof	0		-97.4		
dm	nnn	wc	0		
decwave W40_GATEB-0~					
	12	vs	268		
dpwr	34	th	0		
dmf	29412	ai	25		
		cdc	7		
		ph			

INDEX	FREQUENCY	PPM	HEIGHT
1	2917.4	7.299	21.0
2	2915.2	7.294	7.9
3	2910.6	7.282	7.5
4	2908.4	7.277	22.6
5	2888.1	6.725	23.1
6	2685.9	6.720	8.1
7	2681.3	6.708	7.8
8	2679.1	6.703	21.6
9	1946.4	4.870	22.5
10	1320.5	3.304	8.5
11	1319.0	3.300	11.5
12	1317.2	3.296	8.4
13	825.7	2.066	92.0

Plotname: BS10098-03_PROTON_20241004_01_plot04

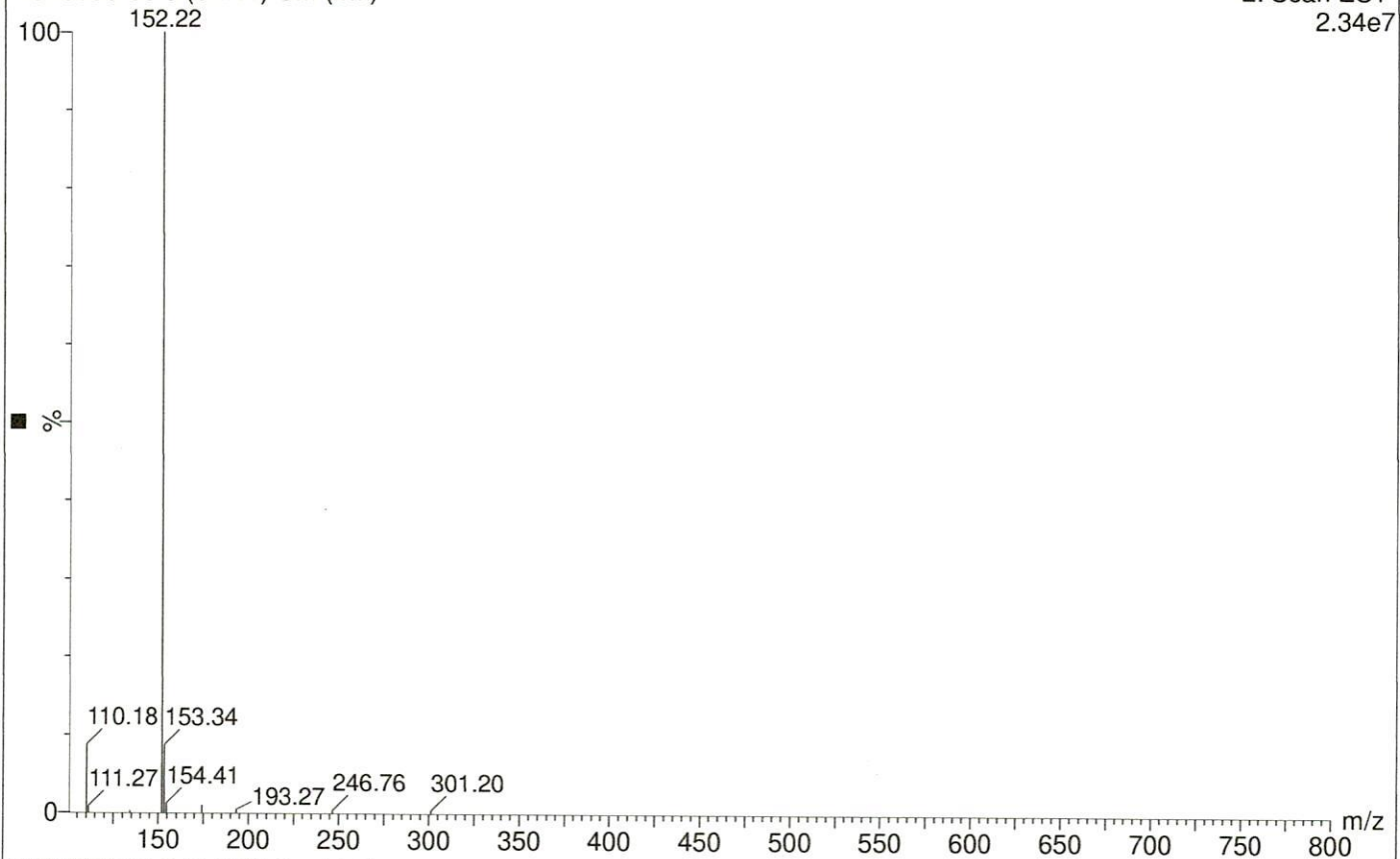
04/10/2024

Sample Name: BS10098-03
Instrument Name: SA/AD/INS/015

Vial Position: 13
04-Oct-2024 20:43:52

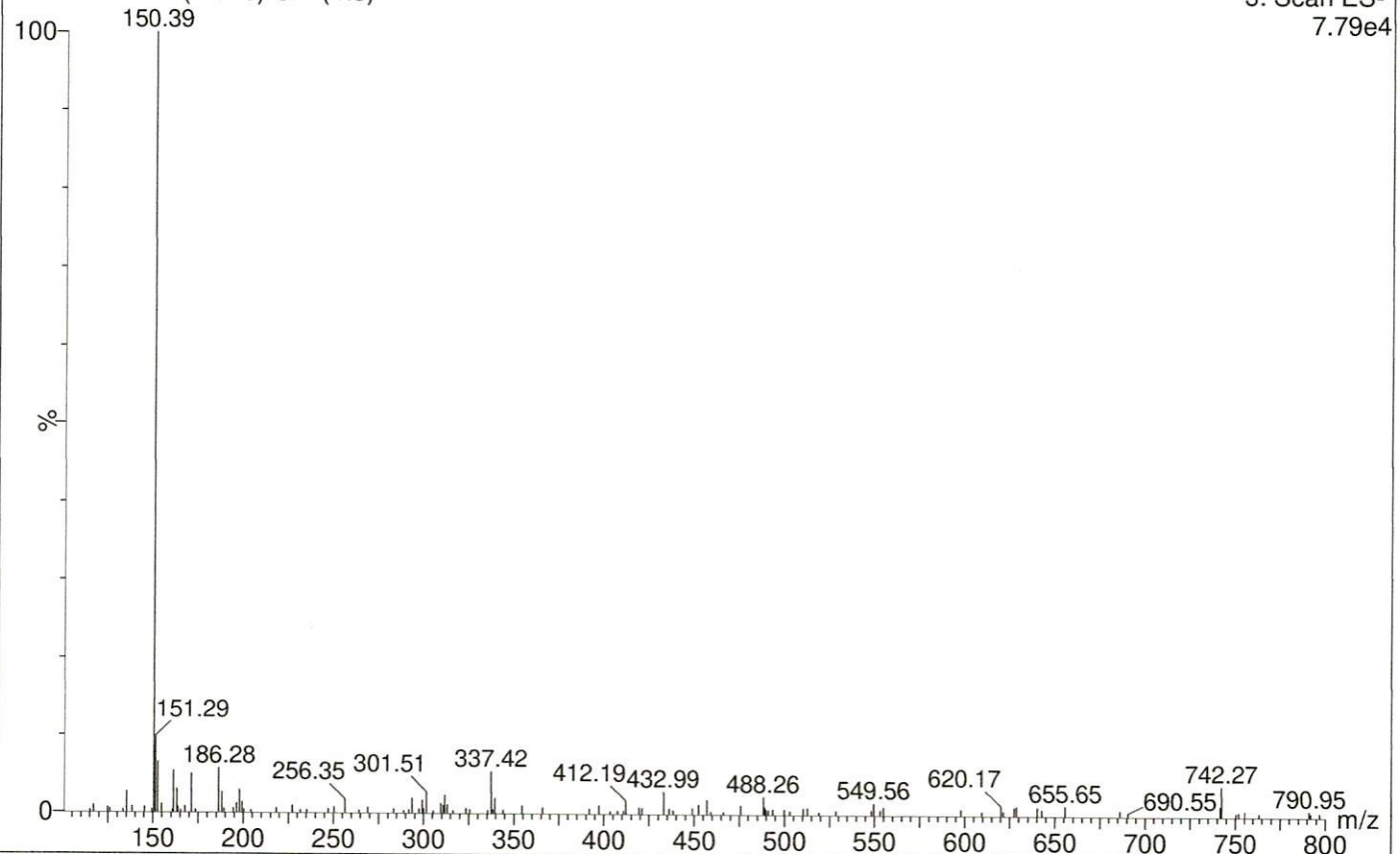
BS10098-03 5 (0.241) Cm (4:7)

2: Scan ES+
2.34e7



BS10098-03 6 (0.310) Cm (4:8)

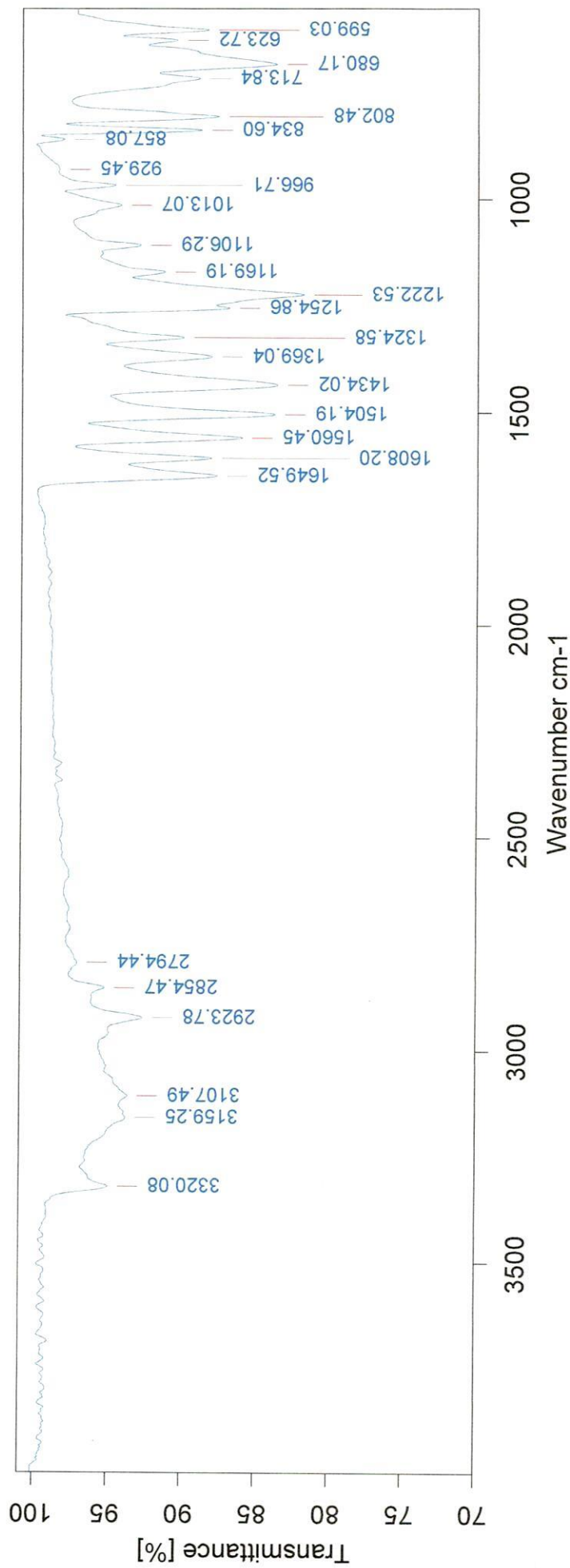
3: Scan ES-
7.79e4



AB
04/10/2024

04/10/2024

INFRARED SPECTRUM



Path/File Name: D:\2024\OCT-2024\BS10098-03.0

Sample Name: BS10098-03

Lot No./Batch No: BS10098-03

Date & Time: 10/4/2024, 8:00:26 PM

Operator Name: SPARK

Experiment: OCT-2024.XPM

Resolution: 2

Sample Scans: 32

Frequency Range: 4000 to 550

Analysed by: 
Date: 04/10/2024

10/4/2024 8:02:22 PM

Checked by: 
Date: 04/10/2024

"D:\2024\OCT-2024\BS10098-03.0" 1
Peak Table TR
..... Peak Picking

Peak Picking Method:	Values
Searched for minima:	Yes
Number of peaks:	27
Sensitivity > [%]:	20.000000
From:	4278.9090
to:	540.0570
Absolute peak height >	0.000000
Relative peak height < [%]	0.000000
Absolute peak height <	0.000000

Wavenumber	Abs. intensity	Rel. intensity	Width	Found if threshold < Shoulder
2923.7834	0.926	0.074	386.3780	39.905285
1649.5151	0.877	0.097	28.6024	52.621536
1608.2020	0.881	0.070	17.5586	31.067408
1560.4475	0.860	0.105	22.6594	57.248428
1504.1917	0.838	0.113	22.3652	61.332176
1434.0193	0.836	0.146	39.5179	79.131775
1369.0416	0.881	0.067	23.7322	32.847256
1324.5801	0.900	0.060	18.1330	29.026134
1222.5265	0.818	0.182	67.5000	99.731923
834.5982	0.888	0.099	14.1945	50.838002
802.4771	0.876	0.108	25.0265	54.795593
680.1679	0.837	0.147	57.8994	74.153580
599.0326	0.884	0.065	16.2365	31.819834
3320.0822	0.950	0.021	22.6737	44.504822
3159.2454	0.938	0.006	105.4433	16.891041
3107.4884	0.936	0.025	123.1503	125.091225
2854.4657	0.952	0.010	13.0779	18.412756
2794.4409	0.971	0.006	34.2160	21.255829
1254.8572	0.869	0.037	23.1151	5.728433
1169.1860	0.913	0.025	14.3792	16.357424
1106.2925	0.930	0.032	15.4960	45.409264

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BS10098-03

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09/10/2024

04/10/2024

Peak Picking Values

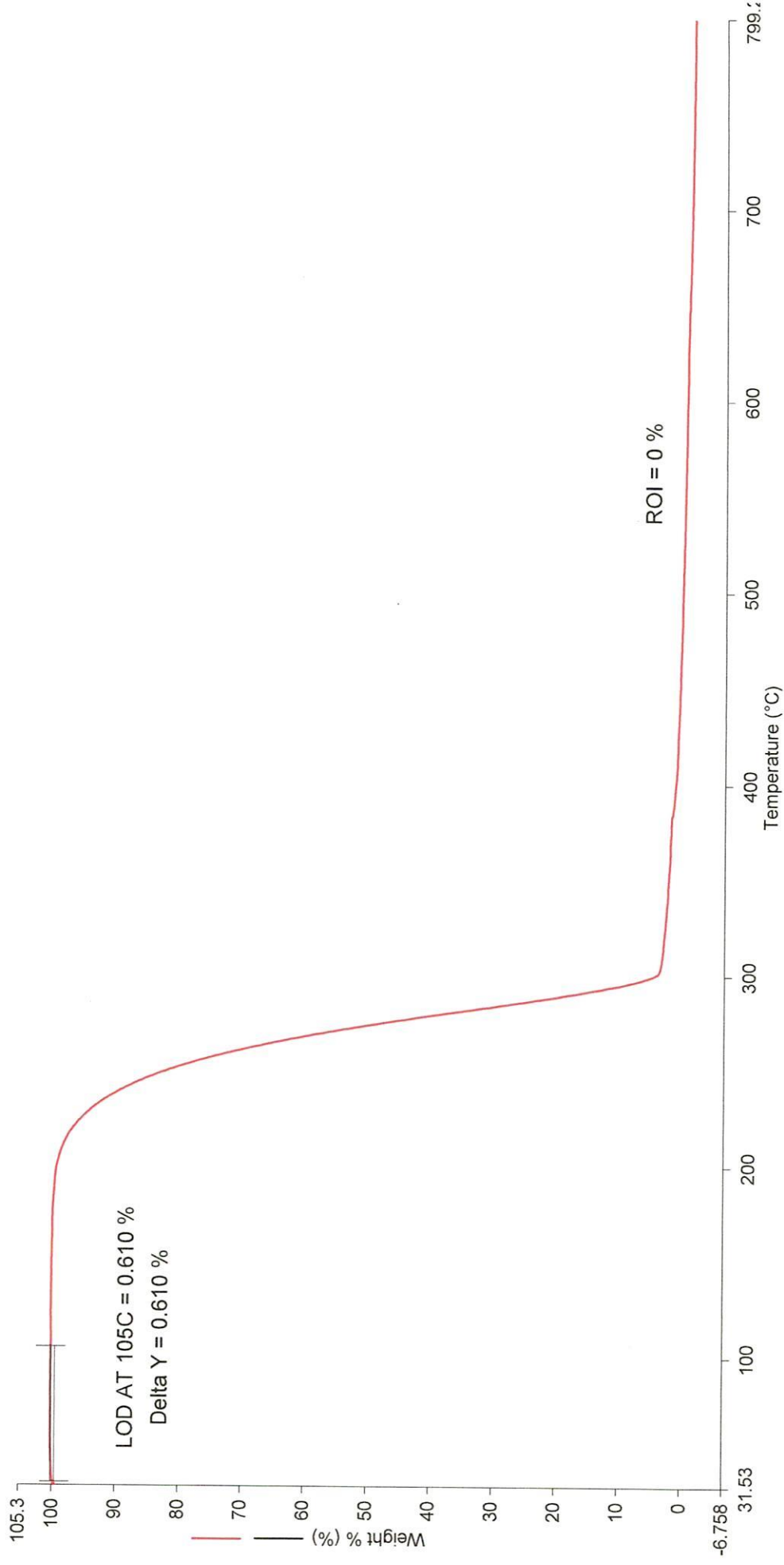
Wavenumber	Abs. intensity	Rel. intensity	Width	Found if threshold < Shoulder
1013.0745	0.943	0.038	37.5115	82.494011
966.7119	0.947	0.037	15.5923	69.552574
857.0833	0.982	0.017	11.2564	12.807509
929.4499	0.985	0.002	69.5680	1.513404
713.8448	0.889	0.039	78.5867	19.759256
623.7174	0.905	0.029	105.7813	14.685066


09/10/2024


09/10/2024

Filename: D:\2024\OCT-2024\BRITE\BS10098-03.t6d
Data Collected: 10/4/2024 10:38:23 PM
Operator ID: S.Anjali
Sample ID: BS10098/03
Sample Weight: 3.890 mg
Comment: BS10098/03

SA/AD/INS/022



10/5/2024 9:37:19 AM

3) Hold for 1.0 min at 800.00°C

1) Hold for 1.0 min at 30.00°C
2) Heat from 30.00°C to 800.00°C at 20.00°C/min

BS/10/2024

BS/10/2024