Instrument - BRUKER

Condition - 400MHz DMSO

Proton Assignment	Chemical Shift δ	Multipli- city	No. of Proton
а	1.390 & 1.515	s & s	6
b	3.985	S	1
С	4.702	S	1
d	5.274-5.284	d	1
е	5.374-5.404	dd	1
f	5.597-5.615	d	1
g	6.687-6.759	dd	4
h	7.190-7.256	dd	4
i	8.830-8.939	dd	2
j	9.639	bs	2

Proton Assignment	Chemical Shift (8)	Multipli- city	No. of Proton

<u>Chemical Formula</u> <u>-</u> C24H26N4O7S

Total Number of Proton

<u>Remarks</u> - Two -NH2 and one acid protons are dueterated.

<u>Conclusion</u> - The structure is confirmed with the signals of the spectrum and their interpretation

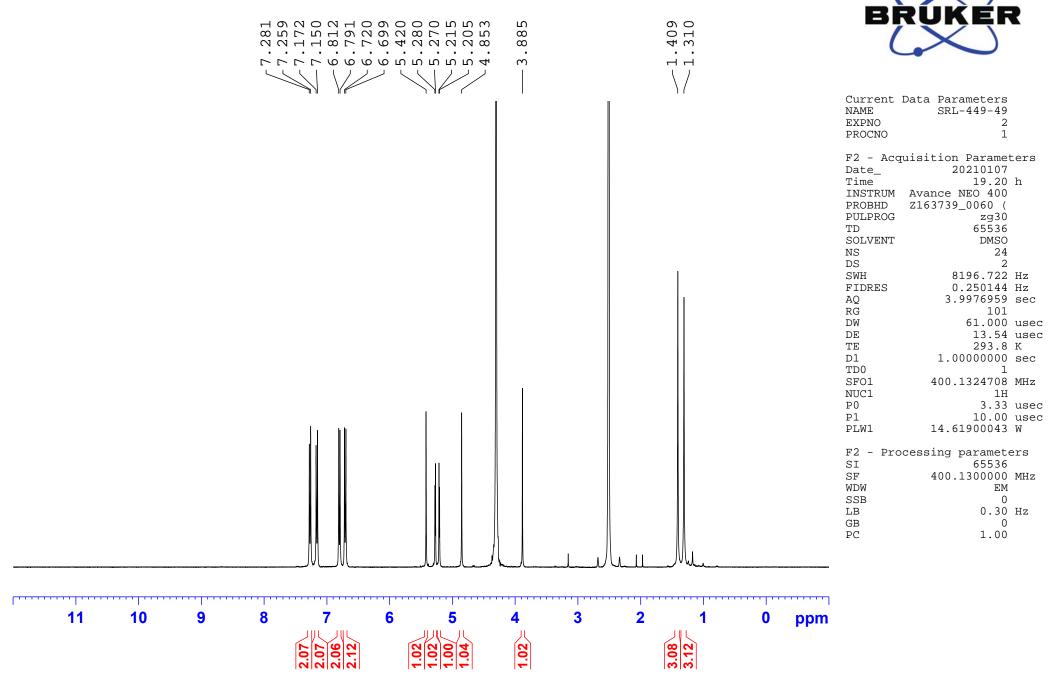
Instrument - ESI

<u>Method</u> <u>-</u> 1.5 kV Ionization Voltage; vaporization temperature: 350 °C, direct inlet

Sr. No.	M/Z	Fragments
1	515	M+1
2	513	M-1
3	1030	M +M
4	1027	M +M
5	498	M - H2O

Conclusion - The signals of the mass spectrum and their interpretation are consistent with the structural formula.



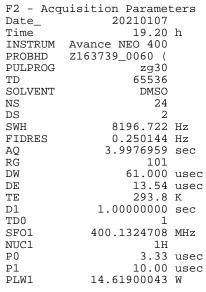


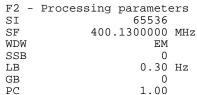


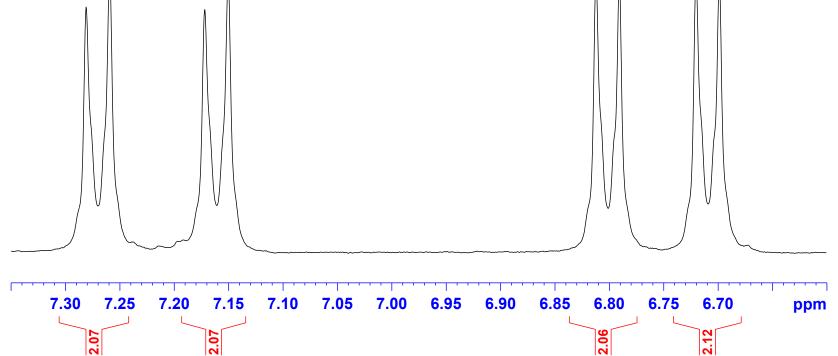




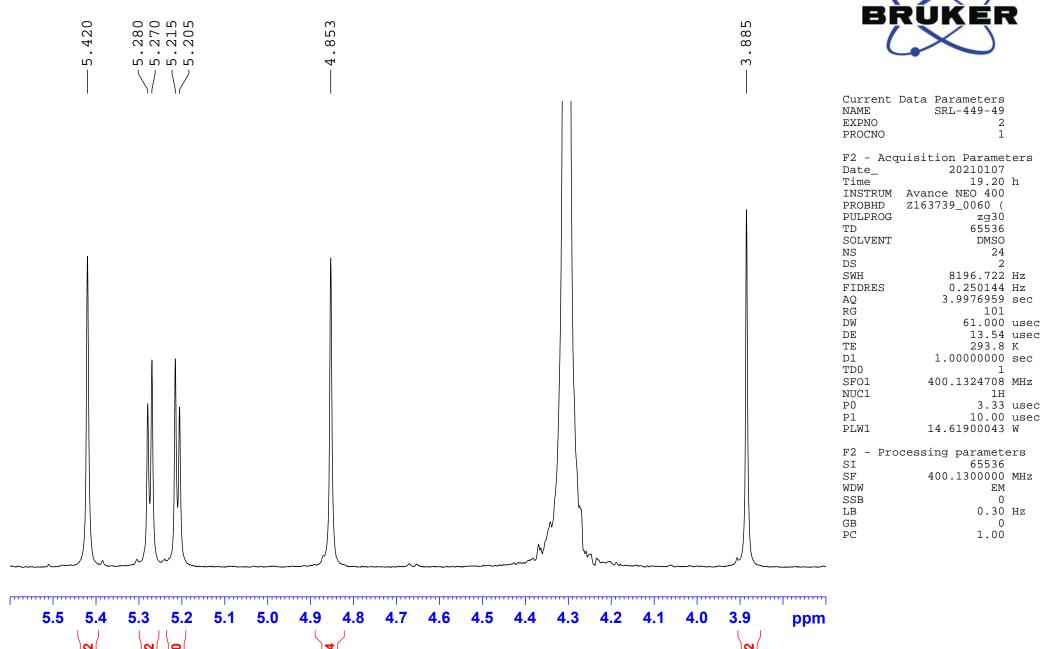
Data	Parameters
	SRL-449-49
	2
	1
	Data











1.8

1.7

1.6

1.5

SynZeal Research Pvt. Ltd. 1H D20_Exchange SRL-449-49

0



SRL-449-49

20210107

Z163739_0060 (

2

1

19.20 h

zg30

65536

8196.722 Hz

0.250144 Hz

3.9976959 sec

101 61.000 usec

293.8 K

1 400.1324708 MHz

1н

3.33 usec

10.00 usec

1.00000000 sec

14.61900043 W

65536

ΕM

0 0.30 Hz

0

1.00

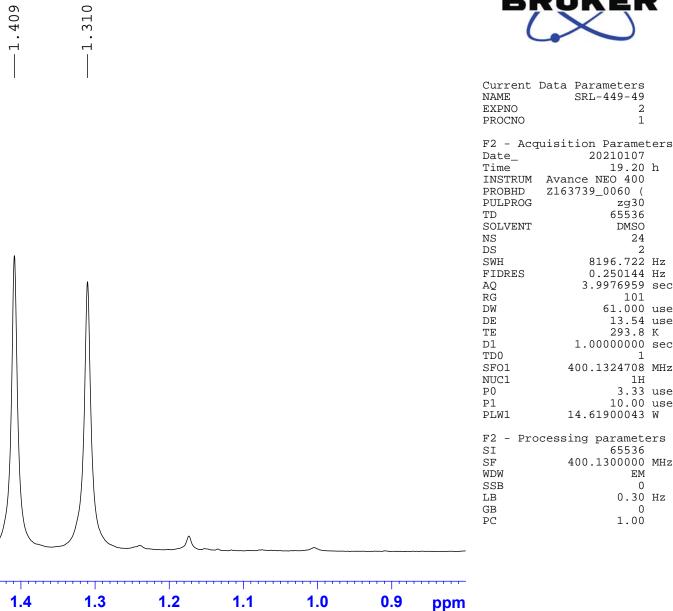
400.1300000 MHz

Processing parameters

13.54 usec

DMSO 24

2





Sample Name : Blank Flow Rate : 1.0 mL/min Project Name : Diluent : Gradient Program Column : Thermo ODS Hypersil - C18 : 40 °C Column Temp. Column ID : SRL/C18/2020/106 Vial # Column Description : 250 mm x 4.6 ; 5 micron Injection Volume : 2 uL Diluent : Mobile phase A Sample Concentration: -

Mobile Phase A : 25 % v/v of 0.2 M KH2PO4 in pH-5.0:ACN (99:01)
Mobile Phase B : 25 % v/v of 0.2 M KH2PO4 in pH-5.0:ACN (80:20)

Method File Name : SZ-HPLC-EP-AMX-01.1cm

Gradient

T(min)/%B

0.01-8/8 -> 8-33/8-100 -> 33-48/100 -> 48-63/100-8 -> 63-75/8

Data File Name : 2021_01_07_HPLC-10_04.lcd

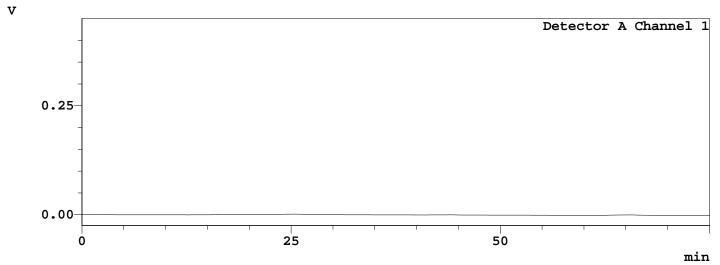
Batch File Name : 2021_01_07.1cb

Data Acquired : 1/7/2021 5:35:15 PM

Acquired by : Sayan Mathakiya

Chromatogram

Blank



1 Detector A Channel 1 / 230nm

Results

Detector	A Channel	1 230nm			
Peak#	Ret. Time	Area	Height	Tailing Factor(10%)	Area %
Total					



Sample Name : Blank Flow Rate : 1.0 mL/min Project Name : Diluent : Gradient Program Column : Thermo ODS Hypersil - C18 : 40 °C Column Temp. Column ID : SRL/C18/2020/106 Vial # Column Description : 250 mm x 4.6 ; 5 micron Injection Volume : 2 uL Diluent : Mobile phase A Sample Concentration: -

Mobile Phase A : 25 % v/v of 0.2 M KH2PO4 in pH-5.0:ACN (99:01)
Mobile Phase B : 25 % v/v of 0.2 M KH2PO4 in pH-5.0:ACN (80:20)

Method File Name : SZ-HPLC-EP-AMX-01.1cm

Gradient

T(min)/%B

0.01-8/8 -> 8-33/8-100 -> 33-48/100 -> 48-63/100-8 -> 63-75/8

Data File Name : 2021_01_07_HPLC-10_04.lcd

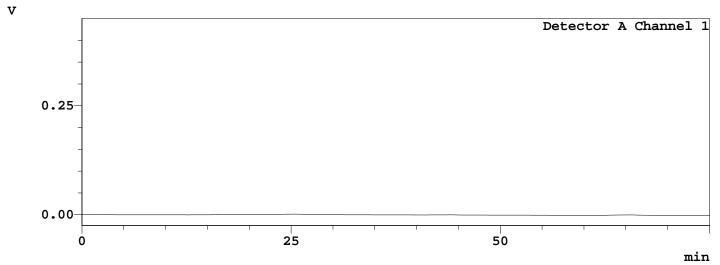
Batch File Name : 2021_01_07.1cb

Data Acquired : 1/7/2021 5:35:15 PM

Acquired by : Sayan Mathakiya

Chromatogram

Blank



1 Detector A Channel 1 / 230nm

Results

Detector	A Channel	1 230nm			
Peak#	Ret. Time	Area	Height	Tailing Factor(10%)	Area %
Total					



Sample Name : SRL-449-49 Flow Rate : 1.0 mL/min Project Name : Amoxicillin : Gradient Program Column : Thermo ODS Hypersil - C18 : 40 °C Column Temp. Column ID : SRL/C18/2020/106 Vial # : 3

Mobile Phase A : 25 % v/v of 0.2 M KH2PO4 in pH-5.0:ACN Mobile Phase B : 25 % v/v of 0.2 M KH2PO4 in pH-5.0:ACN

Method File Name : SZ-HPLC-EP-AMX-01.1cm

Gradient

T(min)/%B

0.01-8/8 -> 8-33/8-100 -> 33-48/100 -> 48-63/100-8 -> 63-75/8

Data File Name : 2021_01_07_HPLC-10_06_SRL-449-49.1cd

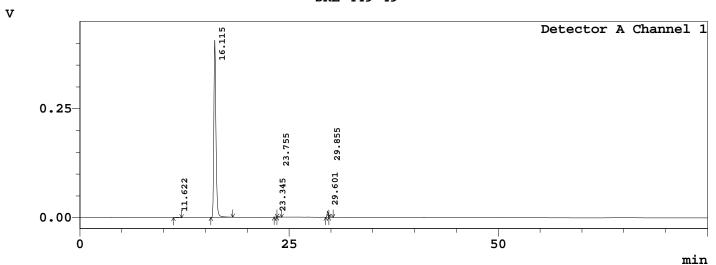
Batch File Name : 2021_01_07.1cb

Data Acquired : 1/7/2021 8:07:54 PM

Acquired by : Sayan Mathakiya

Chromatogram

SRL-449-49



1 Detector A Channel 1 / 230nm $\,$

Results

Detector	A Channel	1 230nm			
Peak#	Ret. Time	Area	Height	Tailing Factor(10%)	Area %
1	11.622	20637	810	1.11	0.28
2	16.115	7081402	406525	1.23	96.82
3	23.345	4659	470	1.19	0.06
4	23.755	16984	1615	1.18	0.23
5	29.601	137074	14150		1.87
6	29.855	53379	4768		0.73
Total		7314135			100.00



Sample Name : Blank Flow Rate : 1.0 mL/min Project Name : Diluent : Gradient Program Column : Thermo ODS Hypersil - C18 : 40 °C Column Temp. Column ID : SRL/C18/2020/106 Vial # Column Description : 250 mm x 4.6 ; 5 micron Injection Volume : 2 uL Diluent : Mobile phase A Sample Concentration: -

Mobile Phase A : 25 % v/v of 0.2 M KH2PO4 in pH-5.0:ACN (99:01)
Mobile Phase B : 25 % v/v of 0.2 M KH2PO4 in pH-5.0:ACN (80:20)

Method File Name : SZ-HPLC-EP-AMX-01.1cm

Gradient

T(min)/%B

0.01-8/8 -> 8-33/8-100 -> 33-48/100 -> 48-63/100-8 -> 63-75/8

Data File Name : 2021_01_07_HPLC-10_04.lcd

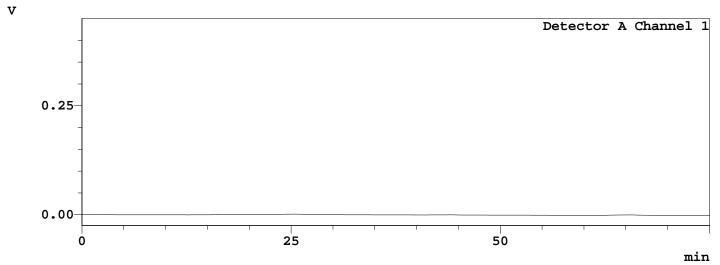
Batch File Name : 2021_01_07.1cb

Data Acquired : 1/7/2021 5:35:15 PM

Acquired by : Sayan Mathakiya

Chromatogram

Blank



1 Detector A Channel 1 / 230nm

Results

Detector	A Channel	1 230nm			
Peak#	Ret. Time	Area	Height	Tailing Factor(10%)	Area %
Total					



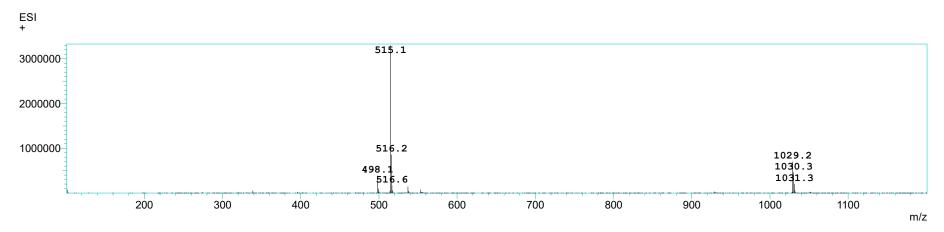
SynZeal Research Pvt. Ltd.

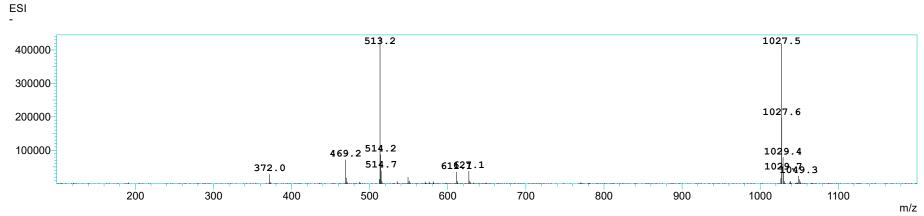
Sample Information

Sample Name : SRL-449-49

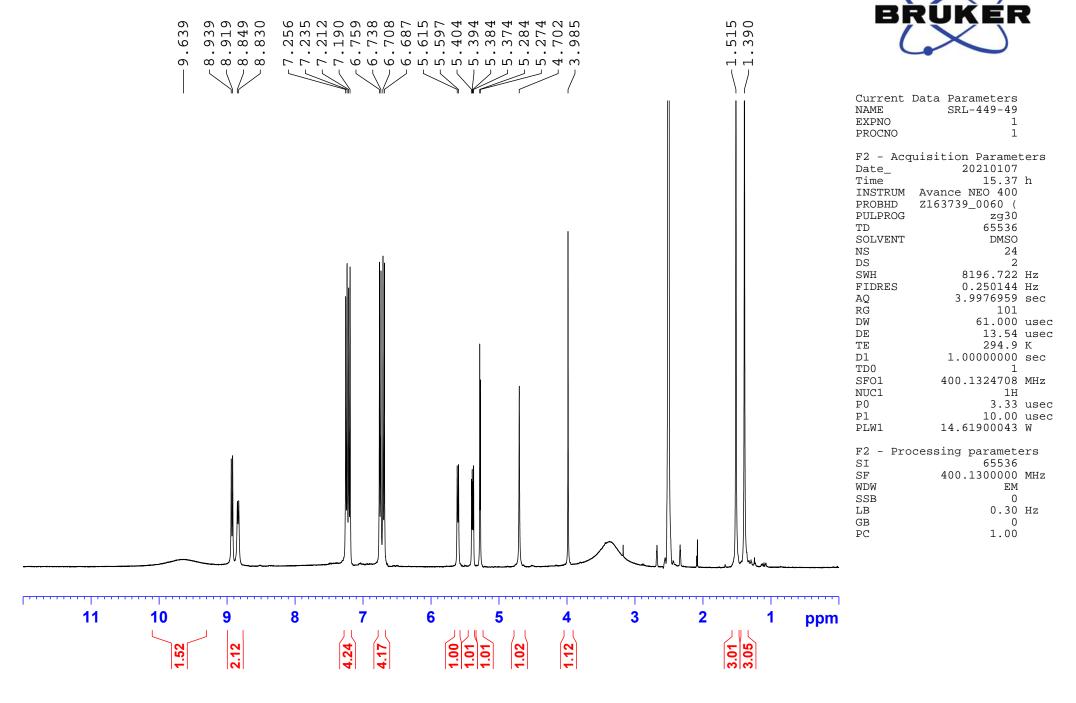
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Mass Analysis



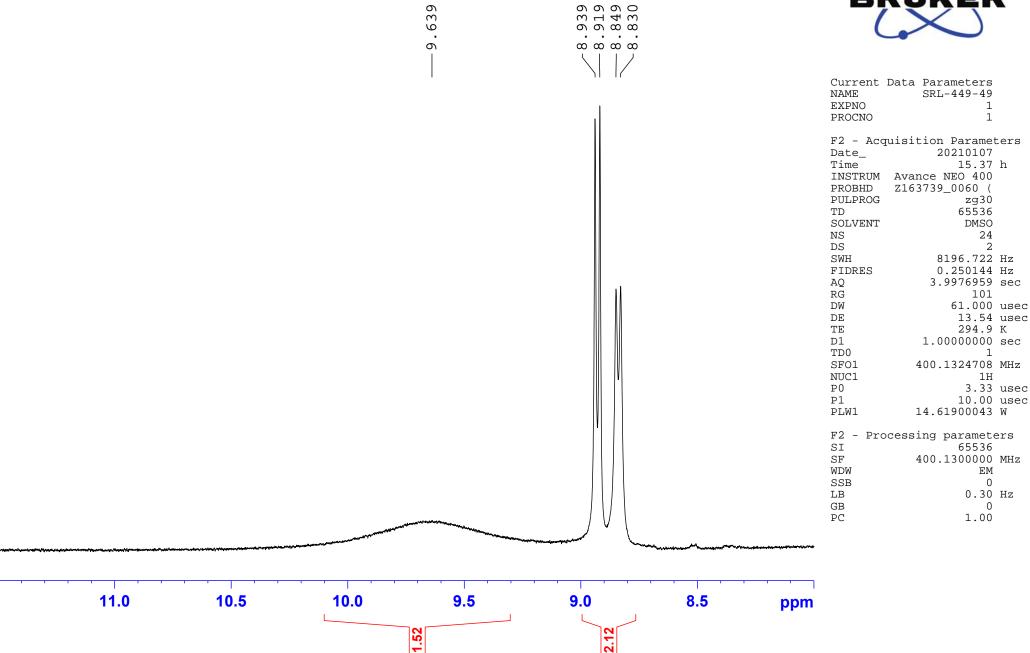






SynZeal Research Pvt. Ltd. 1H SRL-449-49/DMSO-D6





7.4

7.3

7.2

7.1

7.0

6.9

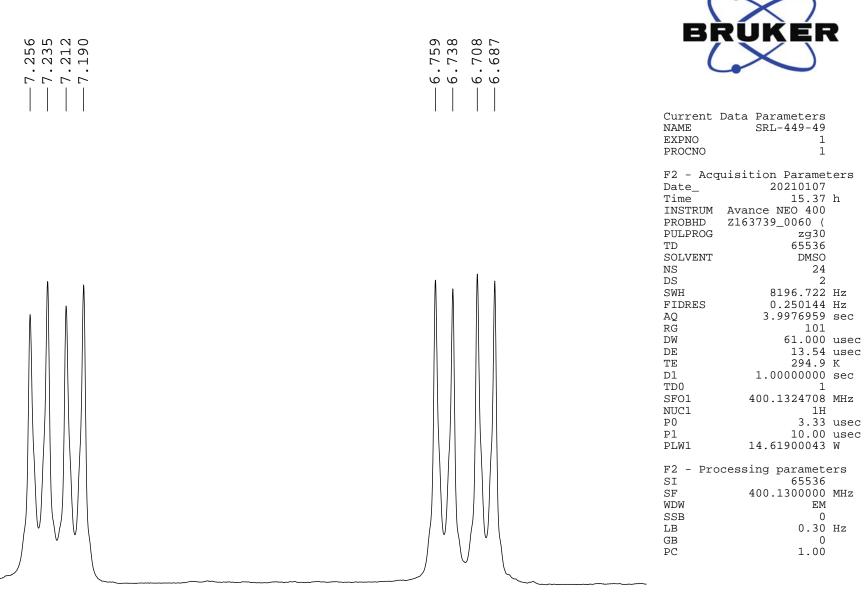
6.8

6.7

6.6

ppm

SynZeal Research Pvt. Ltd. 1H SRL-449-49/DMSO-D6





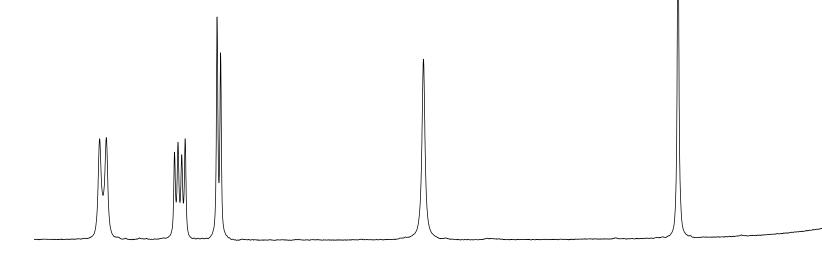




Current Data Parameters
NAME SRL-449-49
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters Date_ 20210107 15.37 h Time INSTRUM Avance NEO 400 PROBHD Z163739_0060 (PULPROG zg30 TD 65536 SOLVENT DMSO NS 24 2 DS 8196.722 Hz SWH FIDRES 0.250144 Hz 3.9976959 sec ΑO RG 101 61.000 usec DW DE 13.54 usec 294.9 K D1 1.00000000 sec TD0 1 SF01 400.1324708 MHz NUC1 1H PΟ 3.33 usec Р1 10.00 usec PLW1 14.61900043 W

F2 - Processing parameters
SI 65536
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



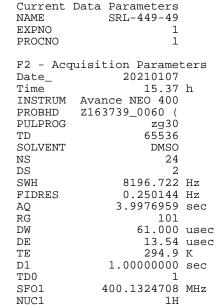
5.7 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8 4.7 4.6 4.5 4.4 4.3 4.2 4.1 4.0 3.9 3.8 3.7 ppm

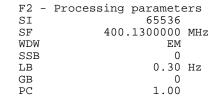
Ŋ

90









3.33 usec

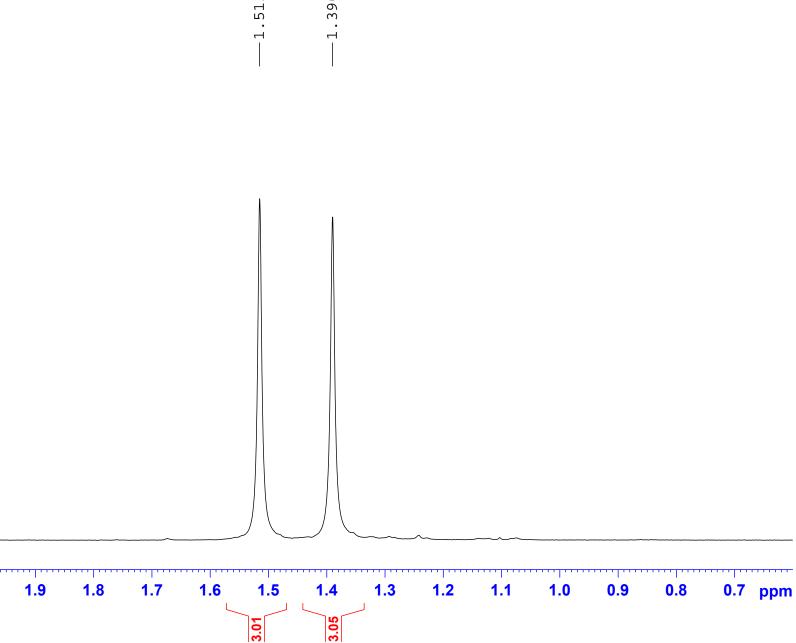
10.00 usec

14.61900043 W

PΟ

Р1

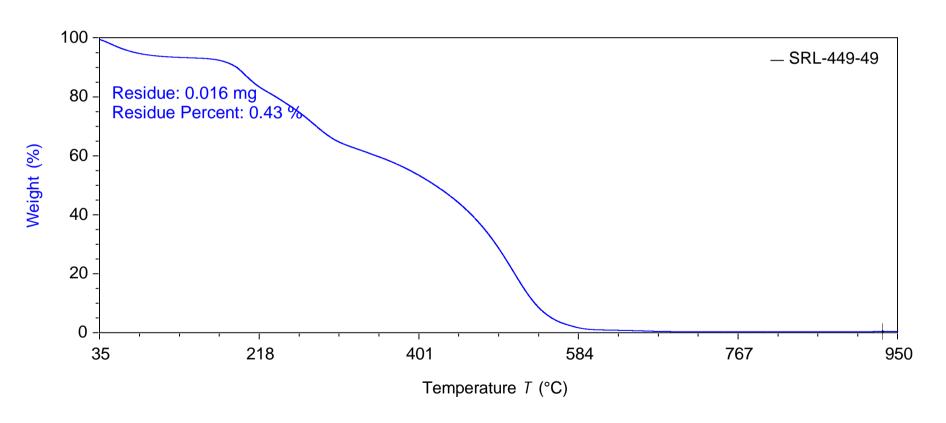
PLW1



SRL-449-49

SZ-TGA-SA-ROI-950-ISO SynZeal Research Pvt Ltd F:\TGA 55 Data\2021\2021_01\2021_01_08\SRL-449-49.tri TGA55,08-01-2021 08:44:29 3.791 mg Platinum HT

SRL-449-49



SRL-449-49

SZ-TGA-SA-ROI-950-ISO SynZeal Research Pvt Ltd F:\TGA 55 Data\2021\2021_01\2021_01_08\SRL-449-49.tri TGA55,08-01-2021 08:44:29 3.791 mg Platinum HT

SRL-449-49

