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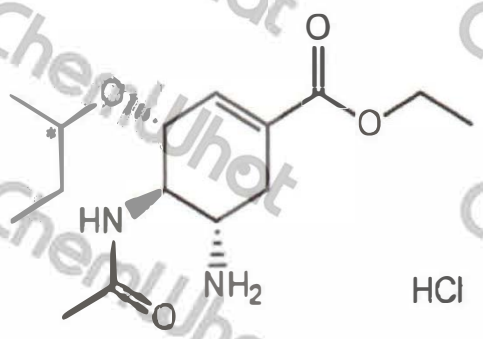
TECHNICAL DATA SHEET (TDS)

PRODUCT NAME	Oseltamivir EP impurity F
PRODUCT NUMBER	1042566
CAS NUMBER	1052063-37-2
MOLECULAR FORMULA	$C_{15}H_{26}N_2O_4$ HCl
MOLECULAR WEIGHT	334.84
STANDARD	Enterprise Standard



TEST ITEMS	SPECIFICATIONS
APPEARANCE	White Solid
MS	Conform to structure
NMR	Conform to structure
PURITY	≥95%
ASSAY	≥90%
STORAGE	Store at 2~8 °C for long time, sealed and away from light.
%Potency=99.6(purity)* [100-3.078(TGA110°C)]/100=96.6%	

ANALYZER		**SUPERVISOR**	

Analytical Report

Test Item: QNMR

Instrument: Bruker AVANCE III HD 400MHz

Sample ID: 20925260-XF-01 MW: 334.84

Internal Standard(ISTD):1,3,5-Trimethoxybenzene (99.82%) MW: 168.19

Solvent: DMSO-d6

Method: CAS-QMS-025.02

The peak for quantitative of sample: δ 1.897 3 H

The peak for quantitative of standard: δ 6.091 3 H

Results:

No.	W_{Sam} (mg)	W_{ISTD} (mg)	A_{Sam}/A_{ISTD}	*W%*
1	10.08	8.83	0.5303	92.32

Formula for calculatlion

$$W\% = \frac{W_{ISTD}}{W_{Sam}} \times \frac{A_{Sam}}{A_{ISTD}} \times \frac{MW_{Sam}}{MW_{ISTD}} \times \frac{n_{ISTD}}{n_{Sam}} \times W_{ISTD}\%;$$

Among the formula:

W_{ISTD} is the weight of ISTD (mg);

W_{Sam} is the weight of sample (mg);

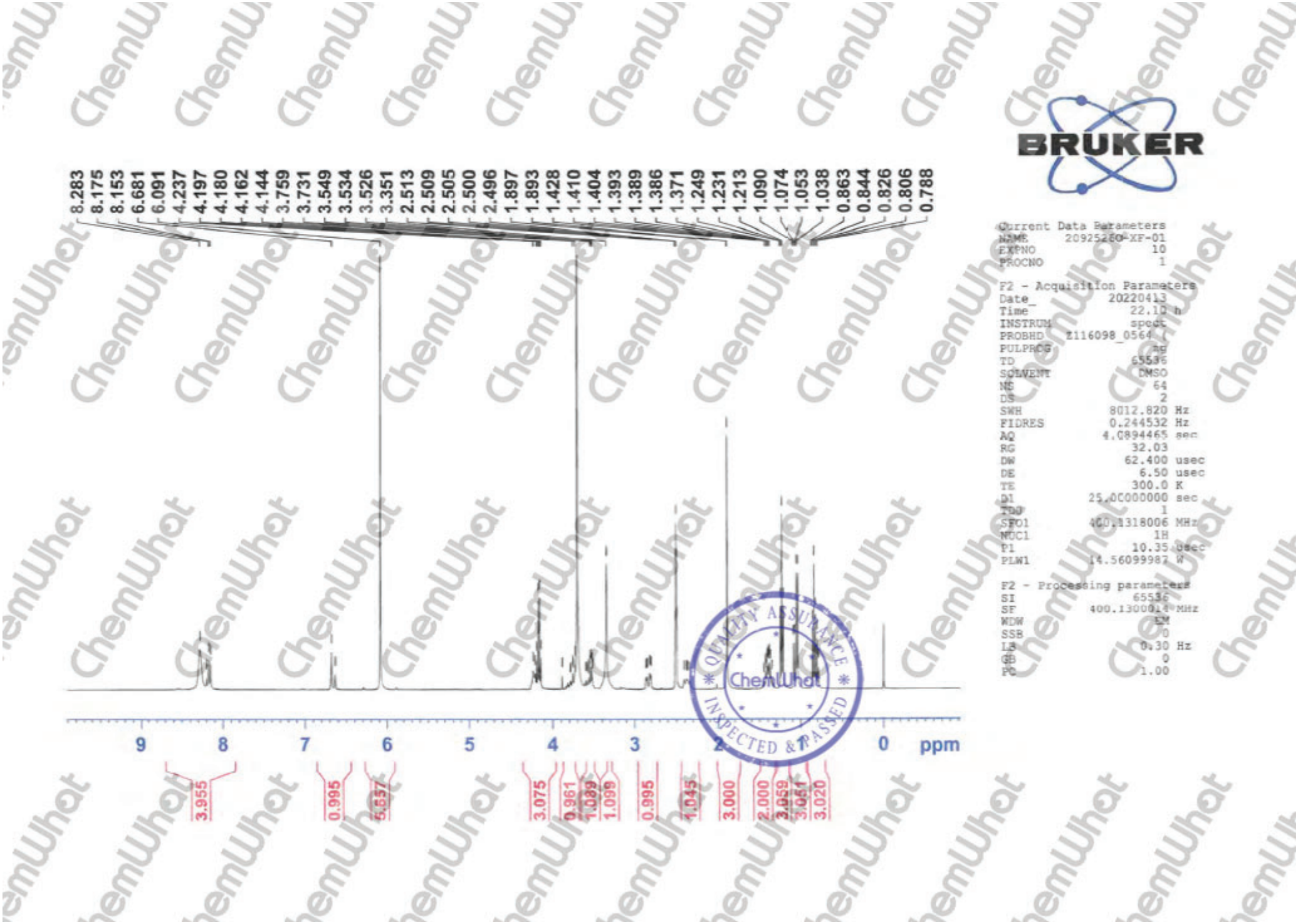
A_{Sam}/A_{ISTD} is the area ratio between sample and ISTD;

MW_{Sam} is the molecular weight of sample;

MW_{ISTD} is the molecular weight of ISTD;

n_{ISTD} and n_{Sam} are the number of protons in the respective functional groups;

W_{ISTD}% is the weight percentage of ISTD.

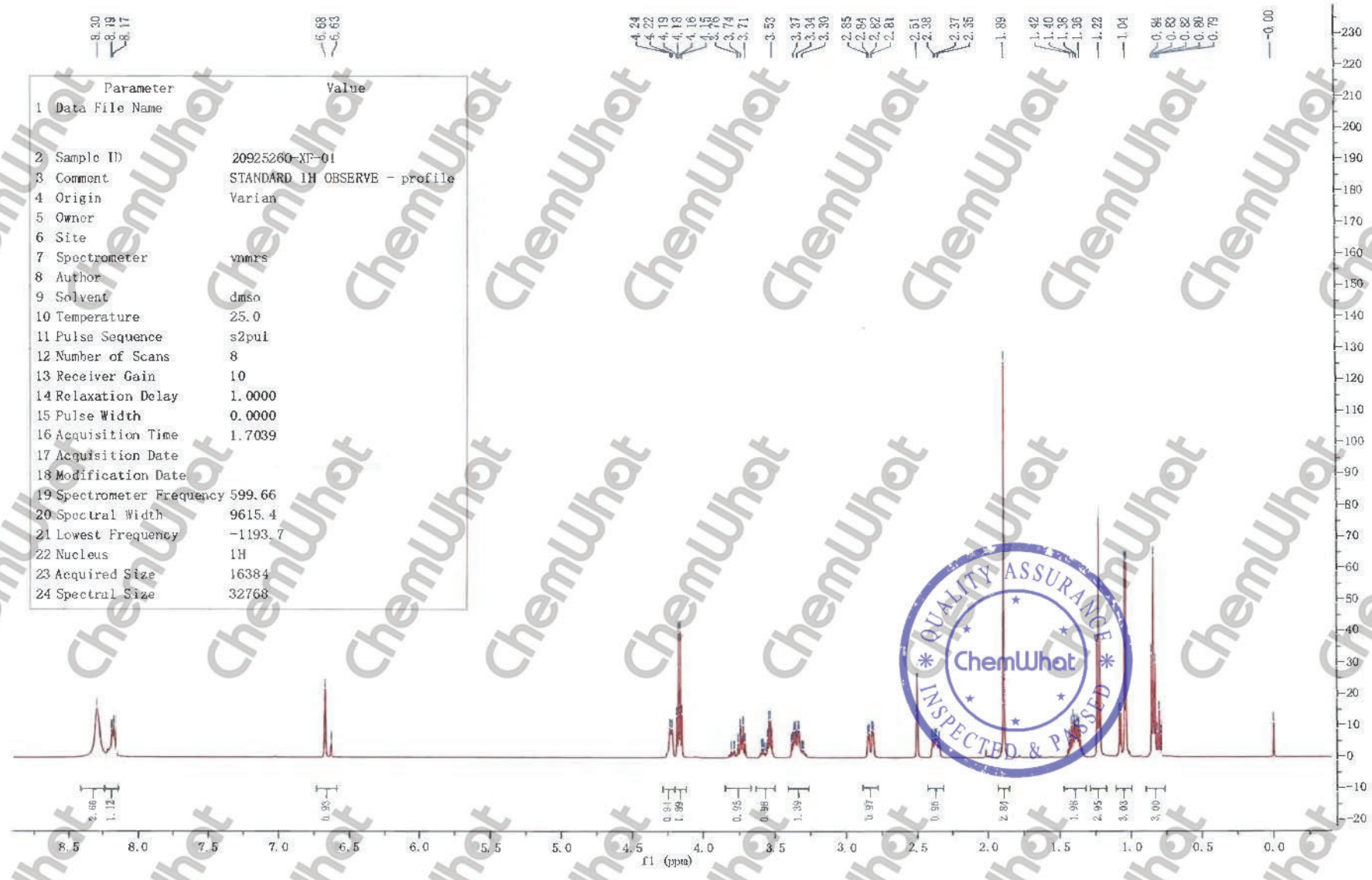


BRUKER

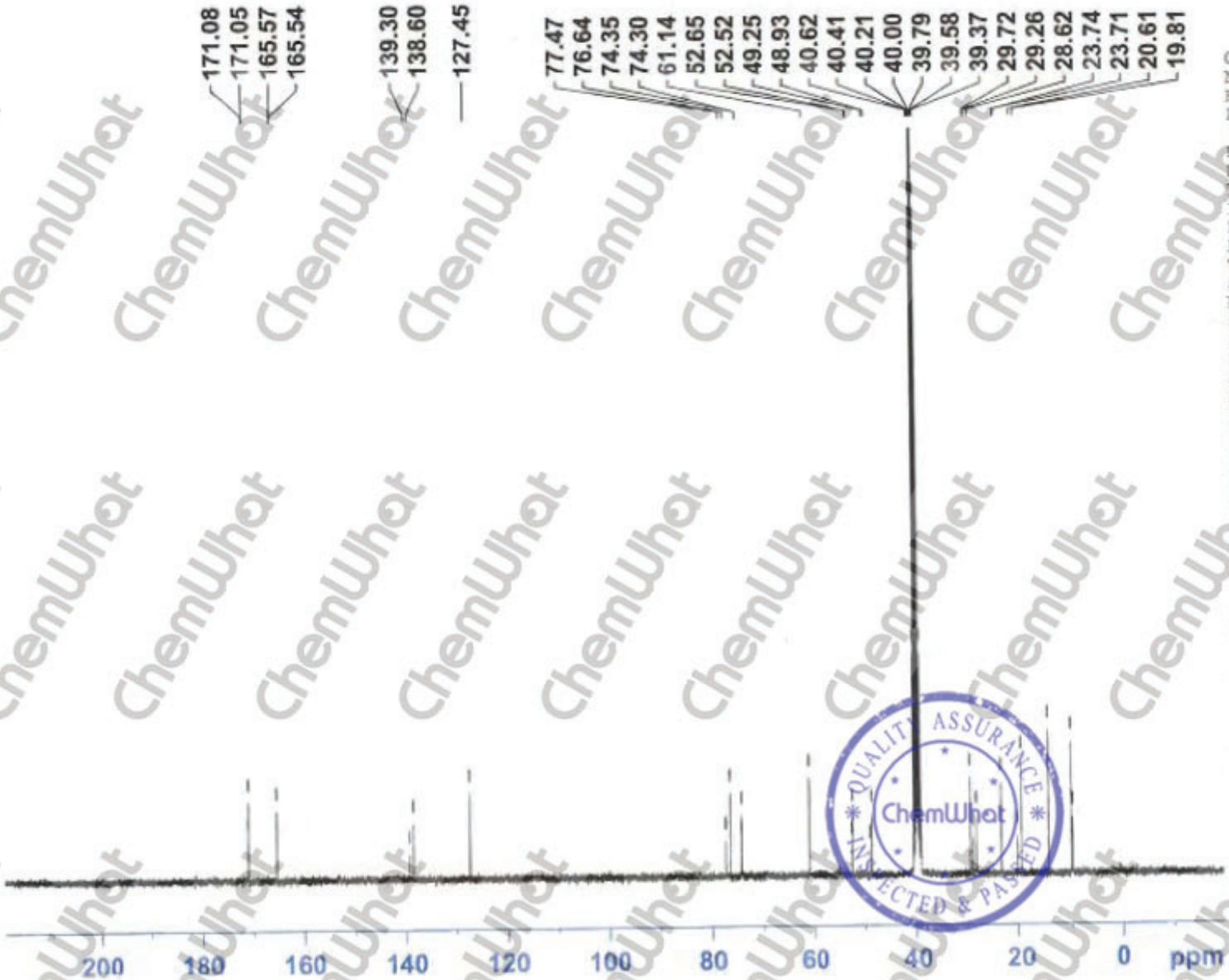
```
Current Data Parameters
NAME      20925280-XF-01
EXPNO                10
PROCNO                1

F2 - Acquisition Parameters
Date_          20220413
Time              22.10 h
INSTRUM             spect
PROBHD   Z116098_0564 (
PULPROG             zg
TD                65536
SOLVENT            DMSO
NS                   64
DS                    2
SWH            8012.820 Hz
FIDRES         0.244532 Hz
AQ             4.0894465 sec
RG                32.03
DW               62.400 usec
DE                6.50 usec
TE               300.0 K
D1            25.00000000 sec
TD0                   1
SFO1         400.1318006 MHz
NUC1                 1H
P1                10.35 usec
PLW1         14.56099987 W

F2 - Processing parameters
SI                65536
SF         400.1300014 MHz
WDW                  EM
SSB                   0
LB                 0.30 Hz
GB                    0
PC                 1.00
```



	Parameter	Value
1	Data File Name	
2	Sample ID	20925260-XF-01
3	Comment	STANDARD 1H OBSERVE - profile
4	Origin	Varian
5	Owner	
6	Site	
7	Spectrometer	vnmrs
8	Author	
9	Solvent	dmso
10	Temperature	25.0
11	Pulse Sequence	s2pul
12	Number of Scans	8
13	Receiver Gain	10
14	Relaxation Delay	1.0000
15	Pulse Width	0.0000
16	Acquisition Time	1.7039
17	Acquisition Date	
18	Modification Date	
19	Spectrometer Frequency	599.66
20	Spectral Width	9615.4
21	Lowest Frequency	-1193.7
22	Nucleus	1H
23	Acquired Size	16384
24	Spectral Size	32768



Current Data Parameters

NAME	20925260-XF 01
EXPNO	20
PROCNO	1

F2 - Acquisition Parameters

Date_	20220413
Time	15.22 h
INSTRUM	spect
PROBHD	z116098_0564 (
PULPROG	zgpg30
TD	65536
SOLVENT	DMSO
NS	473
DS	4
SWH	24038.461 Hz
FIDRES	0.733596 Hz
AQ	1.3631488 sec
RG	198.68
DW	20.800 usec
DE	6.50 usec
TE	300.0 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
SFO1	100.6228298 MHz
NUC1	13C
P1	10.53 usec
PLW1	69.16899872 W
SFO2	400.1316005 MHz
NUC2	1H
CPDPRG[2	waltz16
PCPD2	90.00 usec
PLW2	14.56099987 W
PLW12	0.19257000 W
PLW13	0.09686100 W

F2 - Processing parameters

SI	32768
SF	100.6127685 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

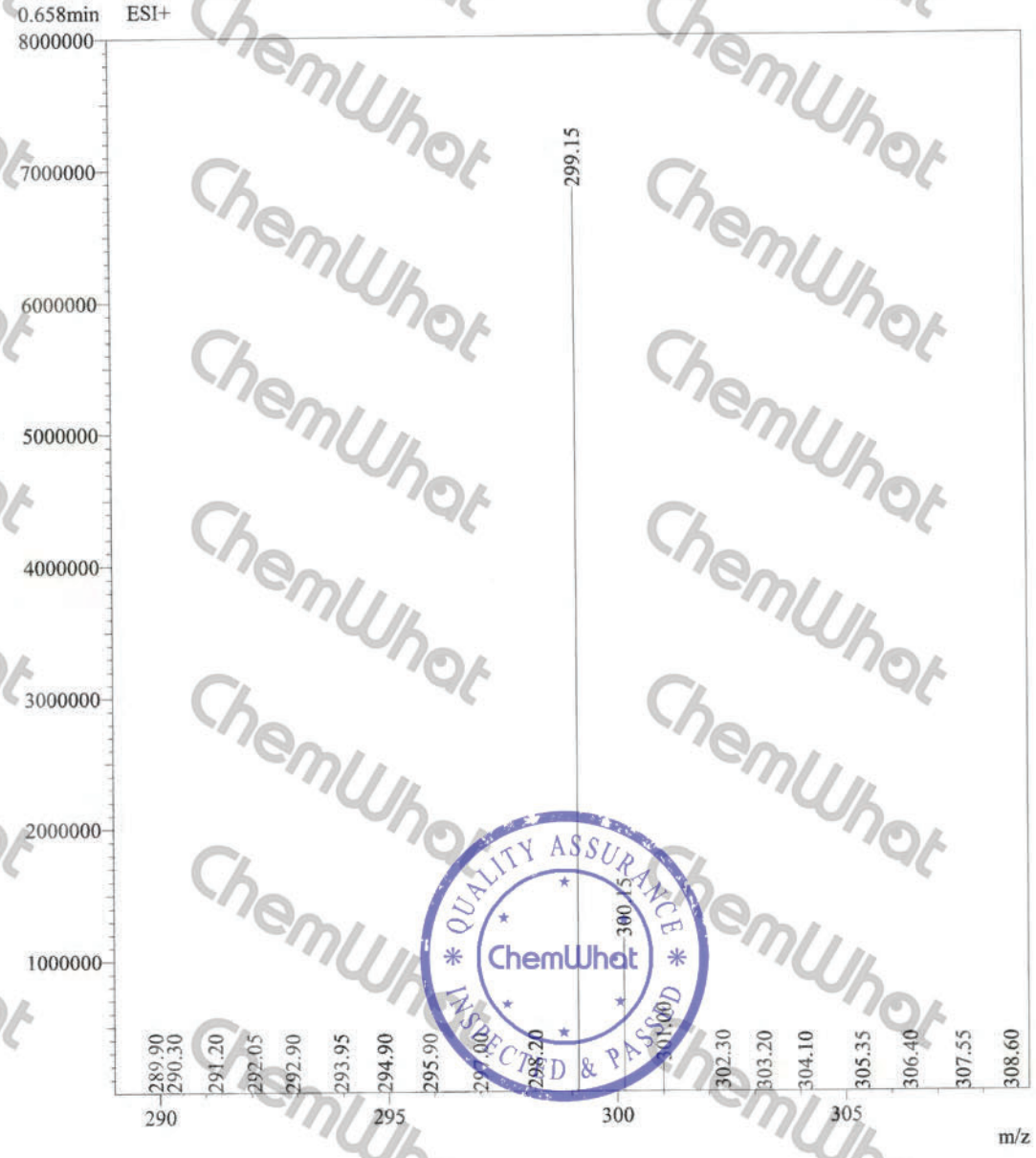
SHIMADZU LabSolutions

MS Report

<Sample Information>

Sample Name	:2092526O-XF-01
Date File Name	:2092526O-XF-01.lcd
Method File Name	:H111ACN-30-90-A-50-01.lcm
Sample Vial#	:1-13
Injection Volume	:5 uL
Date Acquired	
Date Processed	

<MS Spectrum>



SHIMADZU LabSolutions

Analysis Report

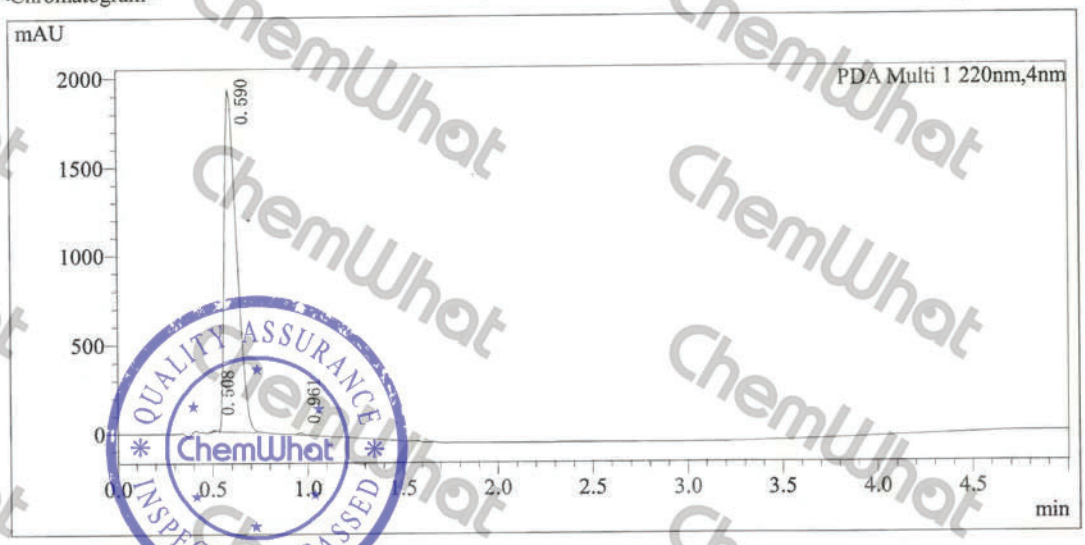
<Sample Information>

Sample Name	:2092526O-XF-01
Date File Name	:2092526O-XF-01.lcd
Method File Name	:H111ACN-30-90-A-50-01.lcm
Batch File Name	
Sample Vial#	:1-13
Injection Volume	:5 uL
Date Acquired	
Date Processed	

<Method Information>

Column： C18 4.6*50mm 5.0um Temperature:40℃ Flow： 1.500ml/min
Mobile Phase A: 0.05%TFA Mobile Phase B:ACN
Gradient program： Time（min）： 0.01 1.00 2.50 4.00 5.00
B%: 30 90 90 30 30

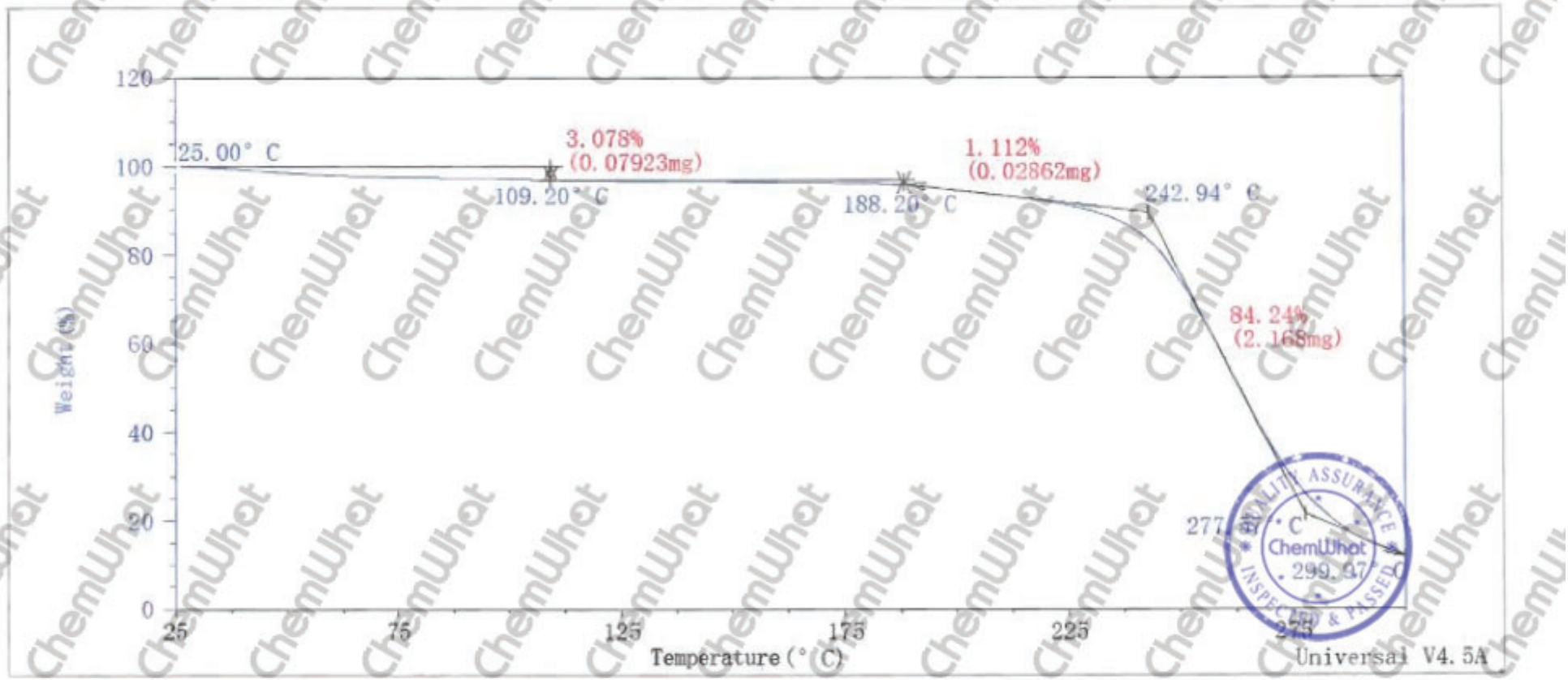
<Chromatogram>



<Peak Table>

PDA Ch1 220nm

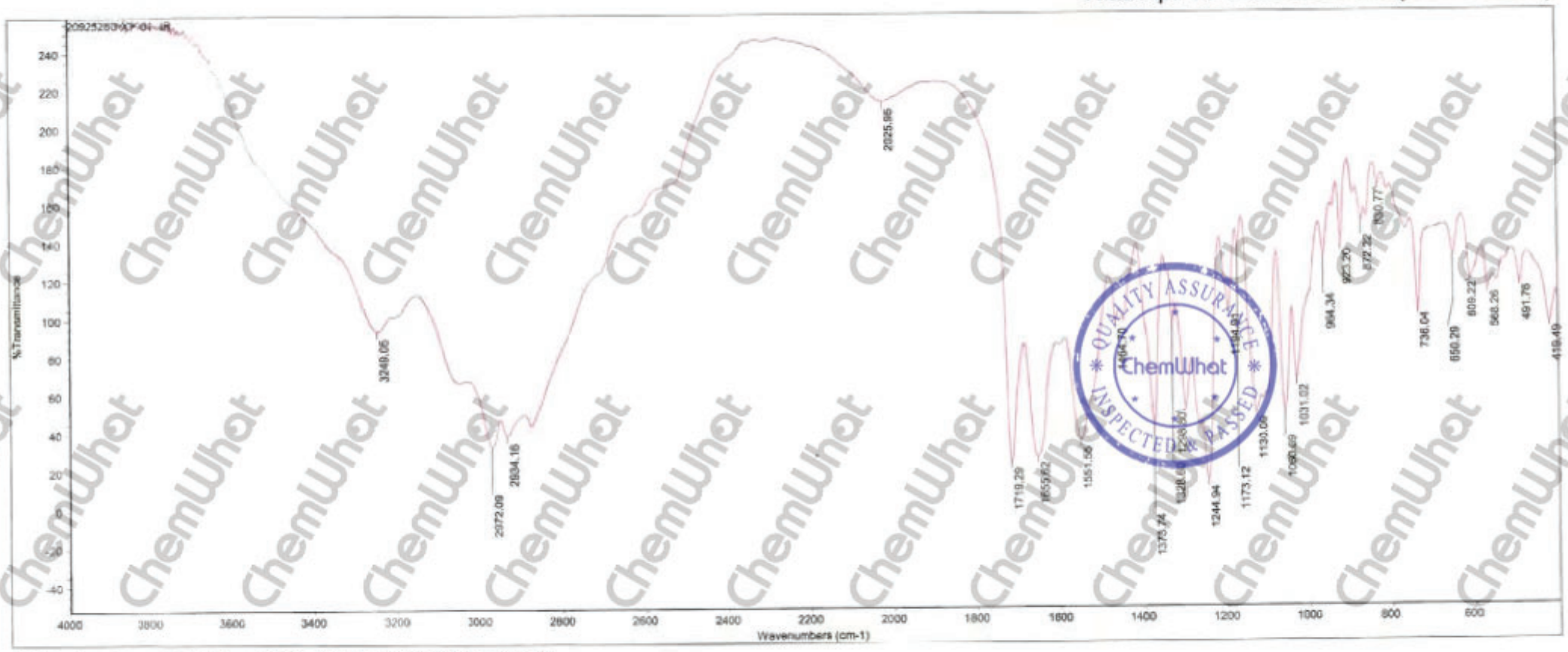
Peak#	Retention Time	Height	Area	Area%
1	0.508	6804	15121	0.174
2	0.590	1926615	8663979	99.581
3	0.961	12299	21365	0.246
Total		1945718	8700465	100.000



Instrument : TGA Q5000 **File :** C:\TA\data\TGA\2092526O-XF-01 **Method :** TG-220416

Sample :	2092526O-XF-01	**Instrument:**	TGA Q5000 V3.17 Build 265	**Atmosphere :**	N2 / N2
Date/time :	2022/4/16 15:06:29	**Crucible :**	Al2O3	**Size:**	2.574mg
Range :	25°C/5(°C/min)/300°C	**Mode/type of meas :**	TG/Sample	**PreMment Cycles :**	0xVac

Wed Apr 13 14:40:25 2022 (GMT+08:00)



Collection time: Wed Apr 13 14:39:51 2022 (GMT+08:00)

Wed Apr 13 14:40:16 2022 (GMT+08:00)
FIND PEAKS:
Spectrum: 2092526O-XF-01 IR
Region: 4000.00 400.00
Absolute threshold: 223.355
Sensitivity: 50
Peak list:

Position:	419.49	Intensity:	93.861
Position:	491.76	Intensity:	115.631
Position:	568.26	Intensity:	113.514
Position:	609.22	Intensity:	118.647
Position:	650.29	Intensity:	130.263
Position:	736.04	Intensity:	102.151
Position:	830.77	Intensity:	166.462
Position:	872.22	Intensity:	147.979
Position:	923.20	Intensity:	136.656
Position:	964.34	Intensity:	130.956
Position:	1031.02	Intensity:	65.858
Position:	1060.69	Intensity:	49.078
Position:	1130.09	Intensity:	49.094
Position:	1173.12	Intensity:	135.760
Position:	1194.91	Intensity:	103.381
Position:	1244.94	Intensity:	13.551
Position:	1298.80	Intensity:	51.828
Position:	1328.60	Intensity:	96.052
Position:	1373.74	Intensity:	42.921
Position:	1464.70	Intensity:	96.102
Position:	1551.55	Intensity:	34.353
Position:	1655.62	Intensity:	25.754
Position:	1719.29	Intensity:	23.218
Position:	2025.95	Intensity:	212.569
Position:	2934.16	Intensity:	37.972
Position:	2972.09	Intensity:	32.681
Position:	3249.05	Intensity:	93.298