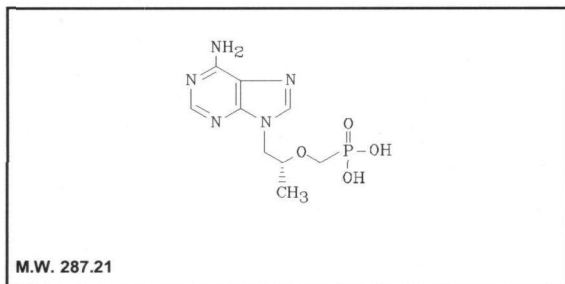




# Product Data Sheet

**M-1502**

## Tenofovir

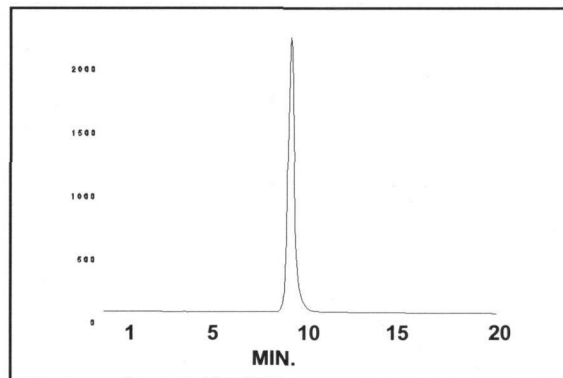


**Lot #:** 208-192-000-A-20030506-Q

**Packaged as:** Solid

**Date of Analysis:** September 20, 2012

**Chemical Purity @ 260nm:** 99.7%



HPLC ANALYSIS LOT 208-192-000-A-20030506-Q  
File Name: int52481 Date and Time: 9/20/2012 8:50:09 AM  
Unit 5 UV

Peak #	Area %	Time	Area
1	0.02	3.73000	0.99969
2	0.13	4.16330	7.04515
3	0.04	5.53000	2.20281
4	0.03	7.98670	1.34075
5	99.72	9.58670	5275.03407
6	0.06	19.43670	3.00264
Totals	100.00		5289.62511

**Storage Recommendation:** Store at -20°C.

**Product Warranty:** Stated on the reverse side of this Product Data Sheet.

**Caution:** Not For Use In Humans Or Clinical Diagnosis. This product is intended for investigational or manufacturing use only. It is pharmaceutically unrefined and is not intended for use in humans. Responsibility for its use in humans, as a diagnostic reagent, and compliance with federal laws rests solely with the purchaser.

**M-1502**

**Tenofovir**

**Lot 208-192-000-A-20030506-Q**

**A) All chromatograms were run using the HPLC method described on the Product Data Sheet.**

**Concentrations and volumes:**

**Tenofovir** solution concentration was 1.0 mg/mL.

Volume of **Tenofovir** injection was 2.5  $\mu$ L.

Volume of blank injection was 2.5  $\mu$ L.

**B) Mass spectrometry - Positive mode**

**C) NMR**

**D) UV Spectrum**

**M-1502**  
**Tenofovir**  
**Lot 208-192-000-A-20030506-Q**

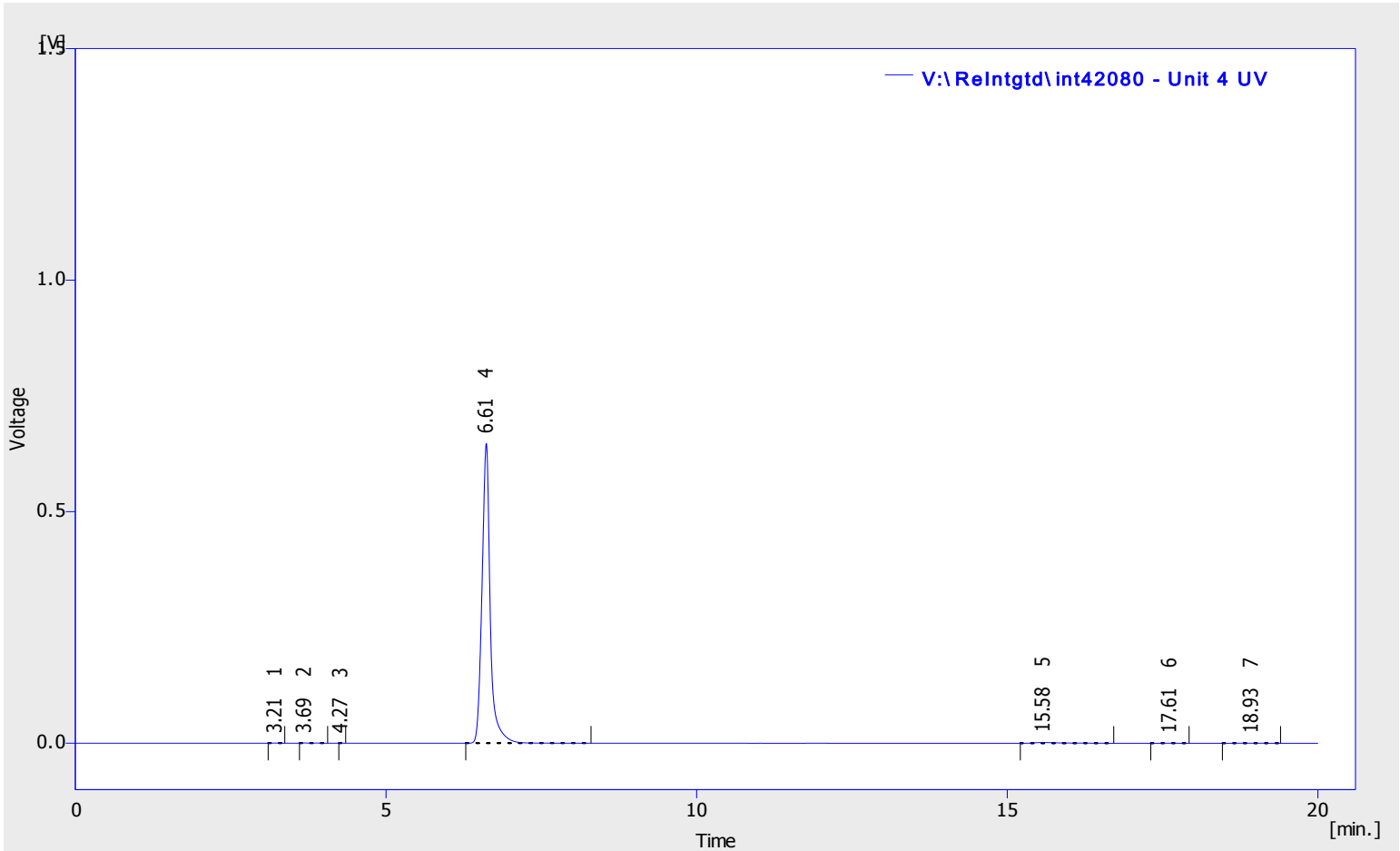
Chromatogram Info:

File Name	: V:\ReIntgtd\int42080.PRM	File Created	: 8/14/2009 3:56:14 PM
Origin	: Save File L:\int42080.PRM As V:\ReIntgtd\int42080.PRM	Acquired Date	: 8/14/2009 3:49:40 PM
Project	: c:\Clarity\Projects\Test.PRJ	By	: Administrator

Method	: Unit4-20minrun	By	: Administrator
Description	: UV trace of Tenofovir		
Created	: 8/7/2007 9:44 AM	Modified	: 8/14/2009 4:17 PM

Column	:	Detection	: UV 260nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		

Autostop	: 20.00 min	External Start	: Start Only, Up
Detector 2	: Unit 4 UV	Range 2	: Bipolar, 1250 mV, 10 Samp. per Sec.
Subtraction Chromatogram	: (None)	Matching	: No Change



Result Table (Uncal - V:\ReIntgtd\int42080 - Unit 4 UV)

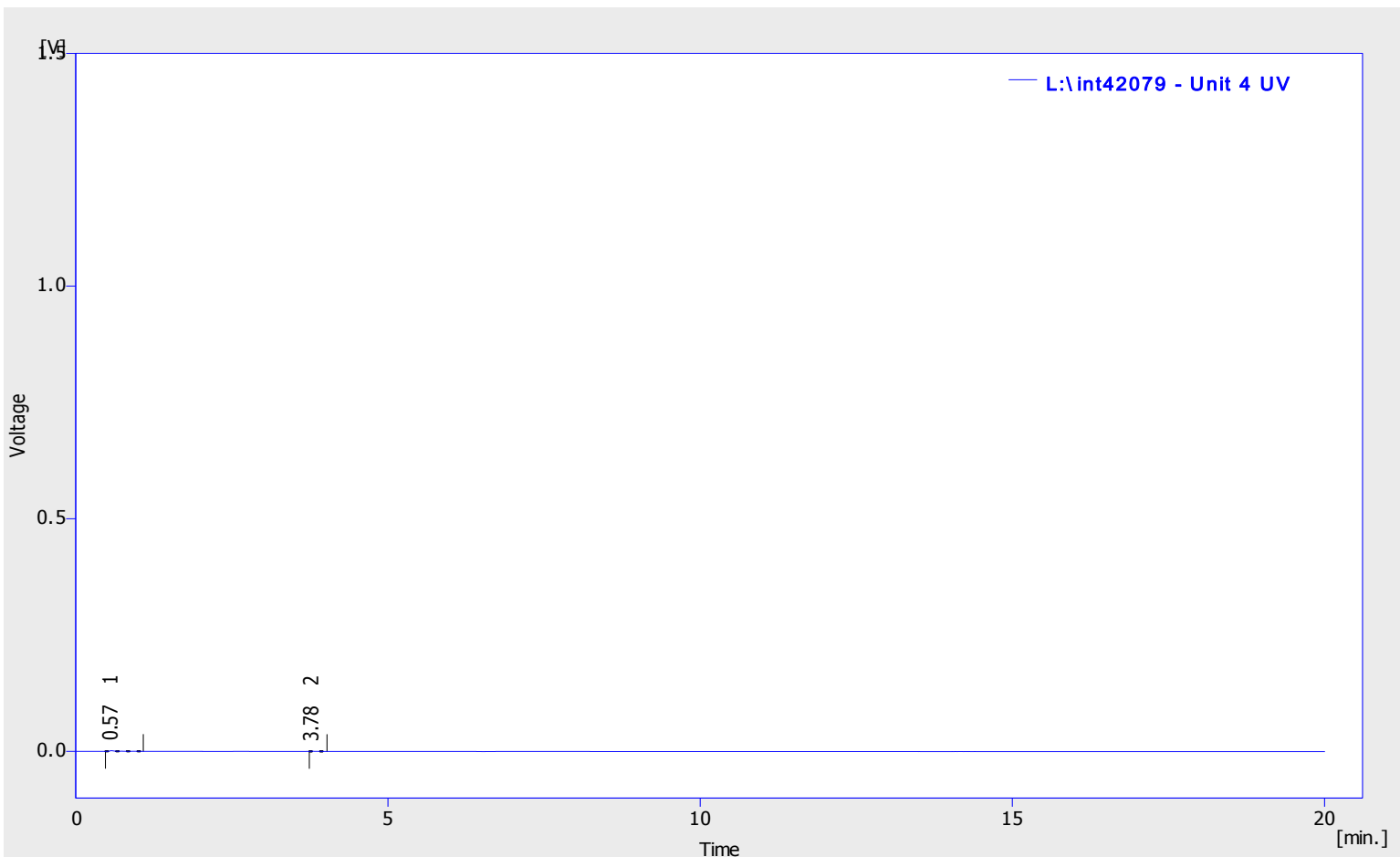
	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	3.213	1.676	0.304	0.03	0.0	0.09
2	3.687	5.781	0.537	0.10	0.1	0.08
3	4.273	0.559	0.170	0.01	0.0	0.06
4	6.613	5965.532	647.715	98.96	99.6	0.13
5	15.577	45.685	1.507	0.76	0.2	0.40
6	17.613	1.944	0.102	0.03	0.0	0.33
7	18.930	6.786	0.254	0.11	0.0	0.44
	Total	6027.962	650.588	100.00	100.0	

**M-1502**  
**Tenofovir**  
**Lot 208-192-000-A-20030506-Q**

Chromatogram Info:

File Name	: L:\int42079.PRM	File Created	: 8/14/2009 3:19:32 PM
Origin	: Acquired	Acquired Date	: 8/14/2009 3:18:57 PM
Project	: c:\Clarity\Projects\Test.PRJ	By	: Administrator
Method	: Unit4-20minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 8/14/2009 3:38 PM
Created	: 8/7/2007 9:44 AM		
Column	:	Detection	: UV 260nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		

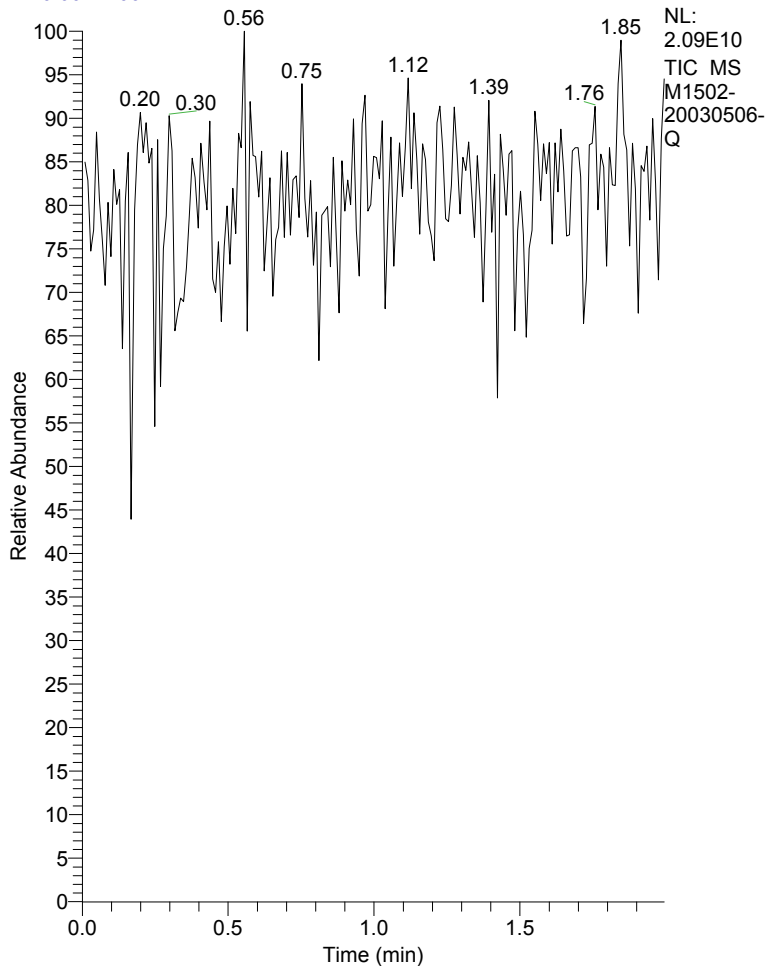
Autostop	: 20.00 min	External Start	: Start Only, Up
Detector 2	: Unit 4 UV	Range 2	: Bipolar, 1250 mV, 10 Samp. per Sec.
Subtraction Chromatogram	: (None)	Matching	: No Change



Result Table (Uncal - L:\int42079 - Unit 4 UV)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	0.567	10.976	1.498	83.37	80.7	0.07
2	3.780	2.190	0.358	16.63	19.3	0.08
	Total	13.166	1.856	100.00	100.0	

RT: 0.00 - 1.99



M1502-20030506-Q#1-202 RT: 0.01-1.99 AV:

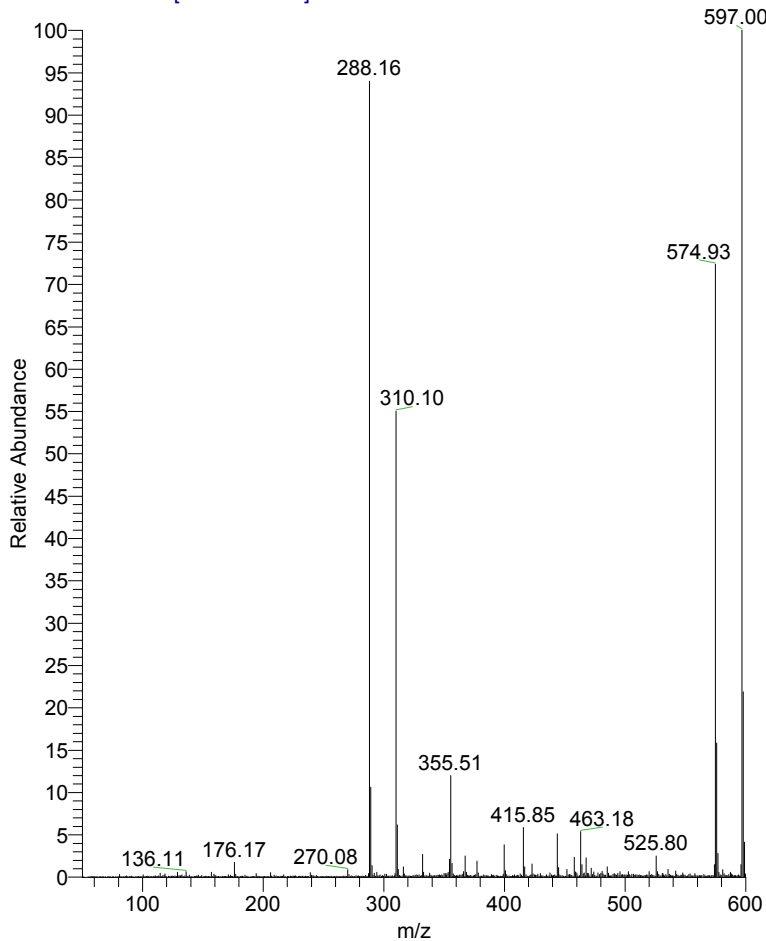
T: + c ESI Full ms [50.00-600.00]

m/z = 282.77-294.25

m/z	Intensity	Relative
285.06	5175644.9	0.17
286.11	3083091.5	0.10
286.85	35139.6	0.00
287.39	12969594.2	0.44
288.16	2966058310.3	100.00
289.16	334804300.8	11.29
290.16	42622017.0	1.44
291.13	6375388.1	0.21
292.11	14205208.6	0.48
293.12	3546292.4	0.12
294.18	17094583.0	0.58

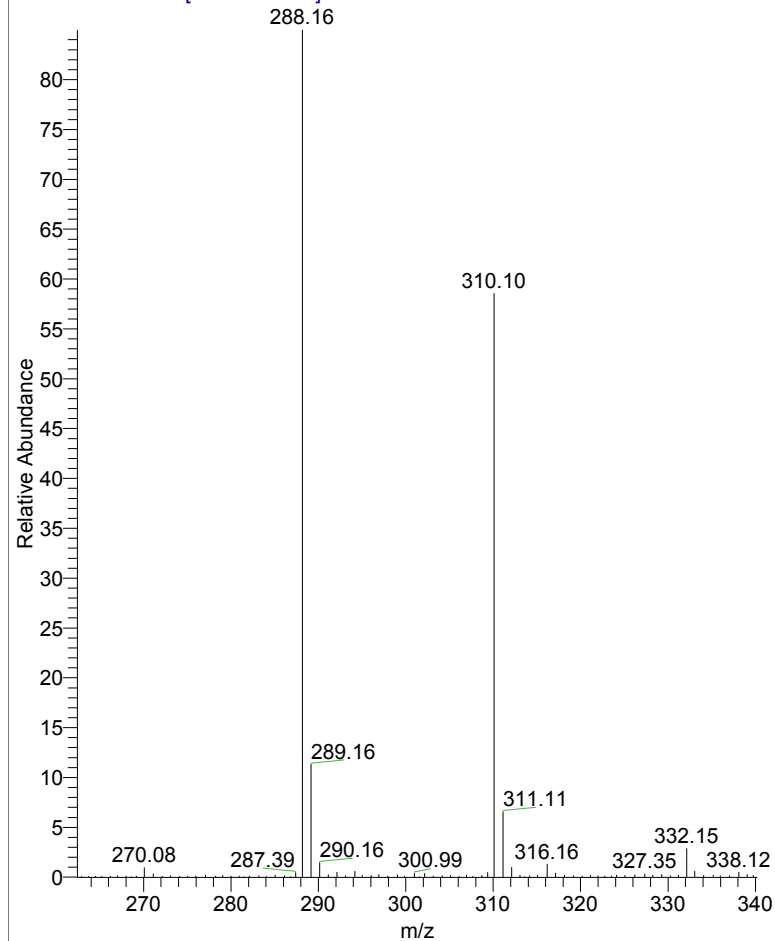
M1502-20030506-Q #1-202 RT: 0.01-1.99 AV: 202 NL: 3.16E9

T: + c ESI Full ms [50.00-600.00]



M1502-20030506-Q #1-202 RT: 0.01-1.99 AV: 202 NL: 2.97E9

T: + c ESI Full ms [50.00-600.00]



M1502 1H NMR in D2O  
Batch 20030506-Q



8.404  
8.333

4.444  
4.403  
4.274  
4.251  
4.225  
4.202  
3.937  
3.657  
3.625  
3.614  
3.583  
3.459  
3.427  
3.384

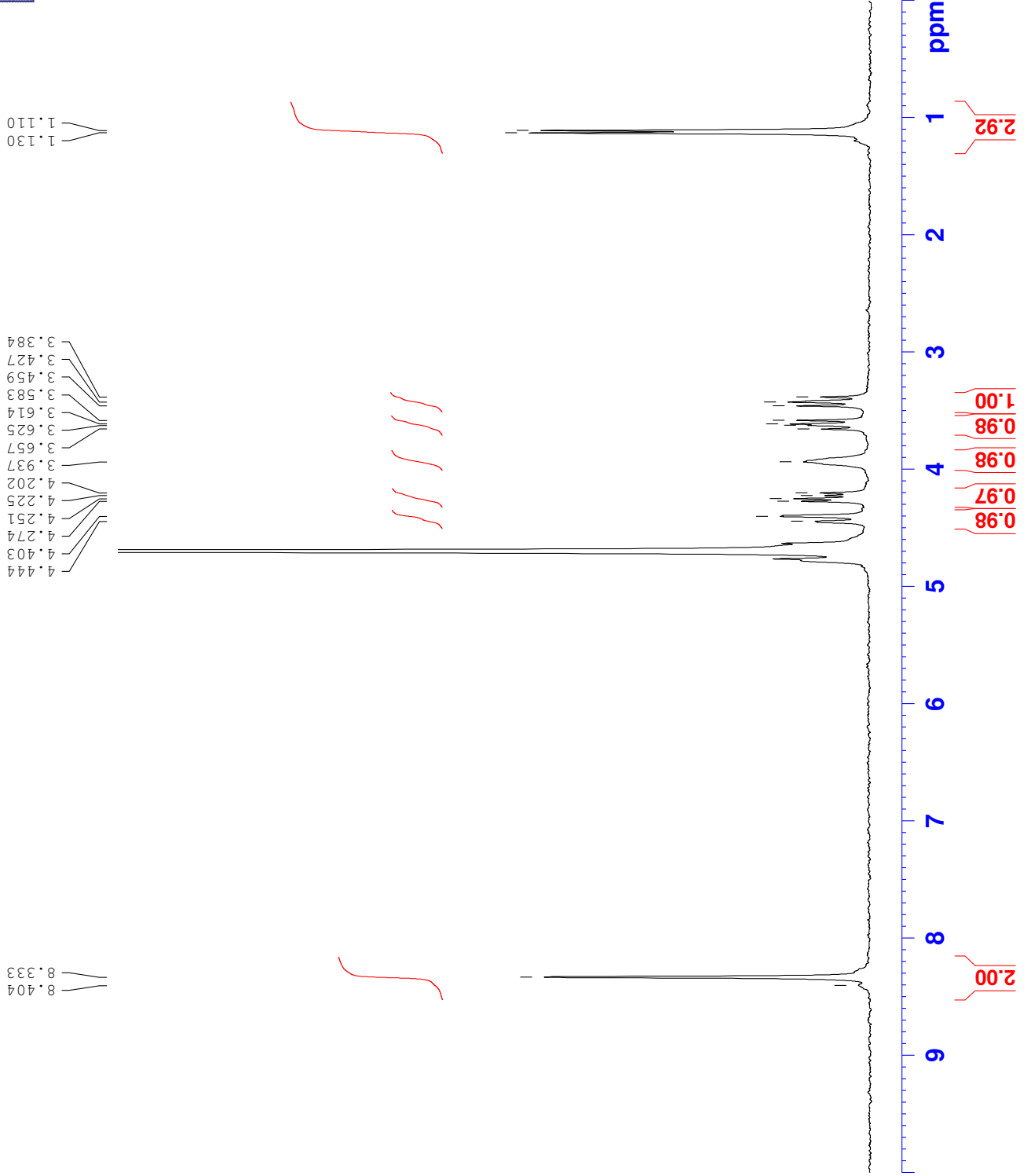
1.130  
1.110

Current Data Parameters  
NAME M1502  
EXPNO 1  
PROCNO 1

F2 - Acquisition Parameter  
Date\_ 20090310  
Time 14.09  
INSTRUM spect  
PROBHD 5 mm DUX 3H-1H  
PULPROG zg30  
TD 65536  
SOLVENT D2O  
NS 500  
DS 2  
SWH 6172.839 Hz  
FIDRES 0.094190 Hz  
AQ 5.3084660 se  
RG 362  
DW 81.000 us  
DE 6.00 us  
TE 300.0 K  
D1 1.00000000 se  
TD0 1

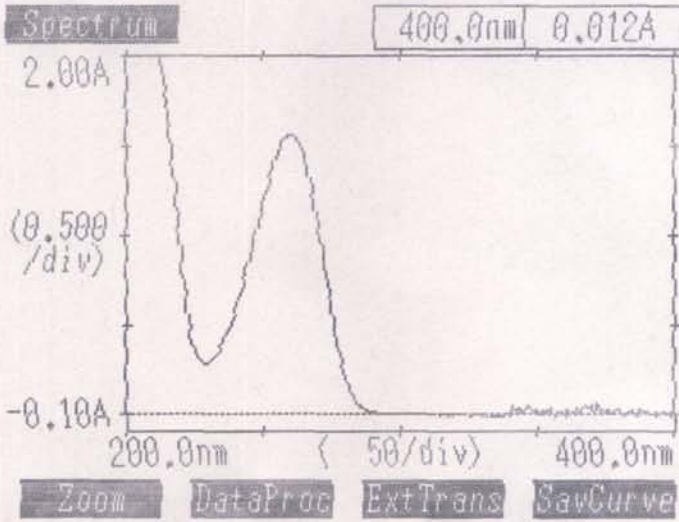
==== CHANNEL f1 =====  
NUC1 1H  
P1 10.25 us  
PL1 0.00 dB  
SF01 300.1318534 MH

F2 - Processing parameters  
SI 32768  
SF 300.1300000 MH  
WDW EM  
SSB 0  
LB 3.00 Hz  
GB 0  
PC 1.00





17/Aug/09 09:01:02



17/Aug/09 09:01:43

Peak detection

Abscis.)	ABS	Abscis.)	ABS
261.0	1.567		
204.5	2.352		

Graph PrintOut Valley