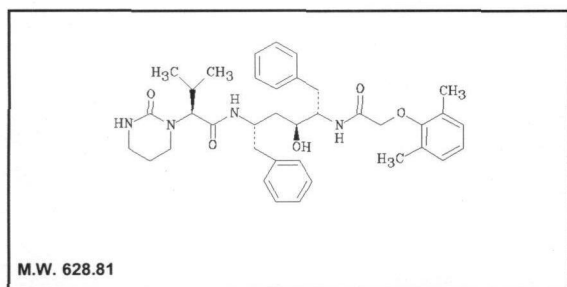




Product Data Sheet

M-1735

Lopinavir

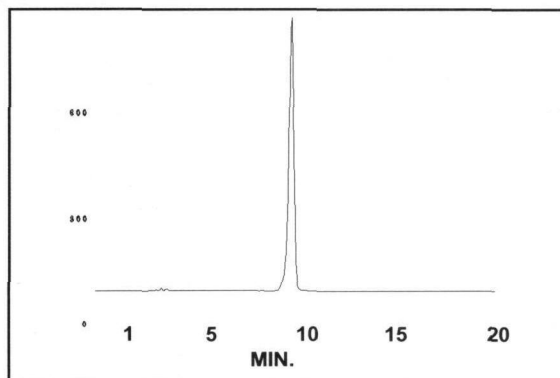


Lot #: 208-305-000-A-20110502-RT

Packaged as: Solid

Date of Analysis: July 19, 2011

Chemical Purity @ 220nm: 99.9%



HPLC ANALYSIS LOT 208-305-000-A-20110502-RT
File Name: int21225 Date and Time: 7/19/2011 3:41:27 PM
Unit 2 UV

Peak #	Area %	Time	Area
1	100.00	9.81000	1388.88341
Totals	100.00		1388.88341

Stability and 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-1735

Lopinavir

Lot 208-305-000-A-20110502-RT

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

Concentrations and volumes:

Lopinavir solution concentration was 2.0 mg/ml.

Volume of **Lopinavir** injection was 0.5 μ l.

Volume of blank injection was 0.5 μ l.

B) Mass spectrometry – Positive mode

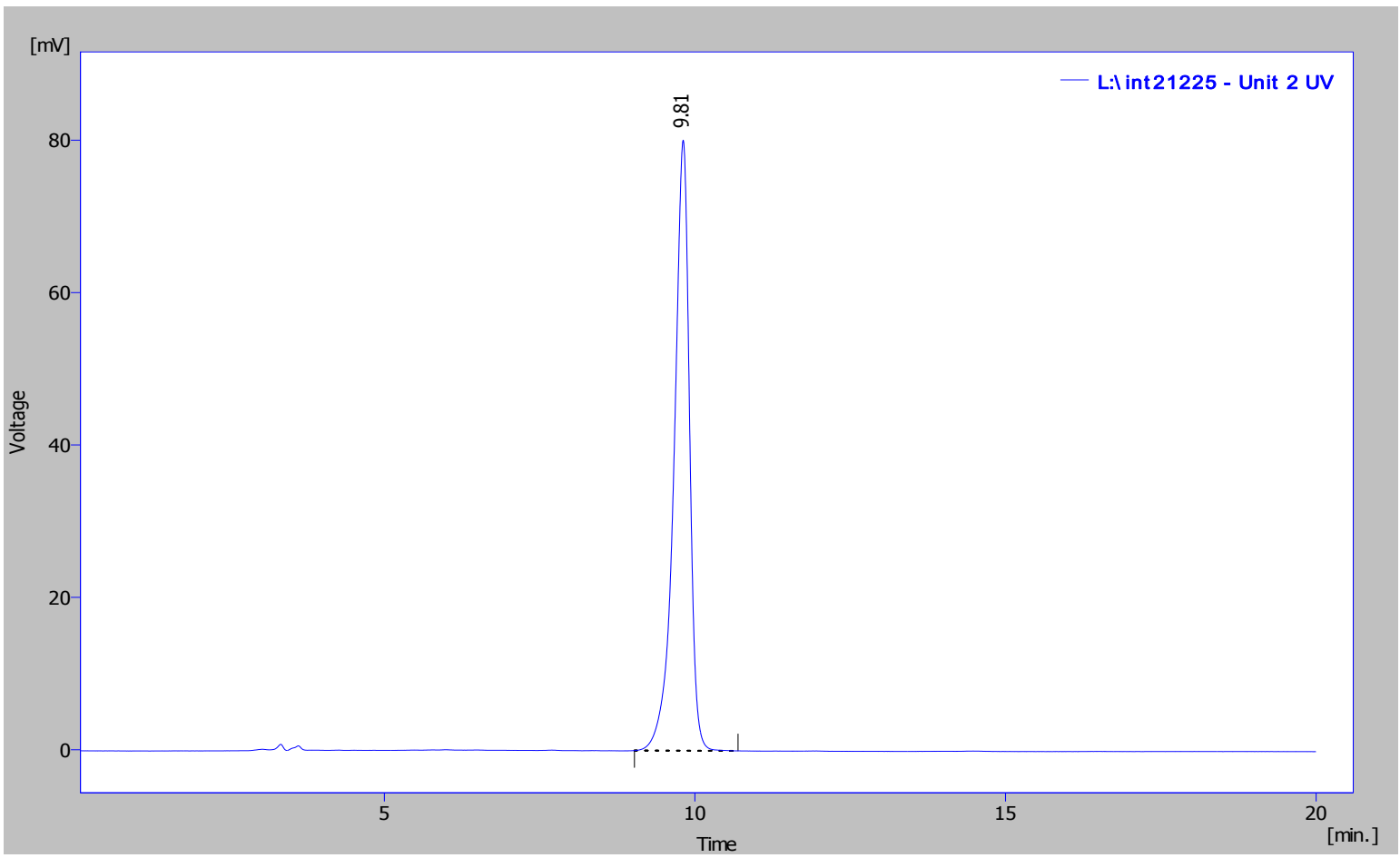
C) NMR

D) UV Spectrum

M-1735
Lopinavir
Lot 208-305-000-A-20110502-RT

Chromatogram Info:

File Name	: L:\int21225	File Created	: 11/14/2013 3:48:14 PM
Origin	: Acquired, Acquisition started 7/19/2011 3:21:27 PM	Acquired Date	: 7/19/2011 3:41:27 PM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of Lopinavir	Modified	: 11/14/2013 3:52 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 220nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



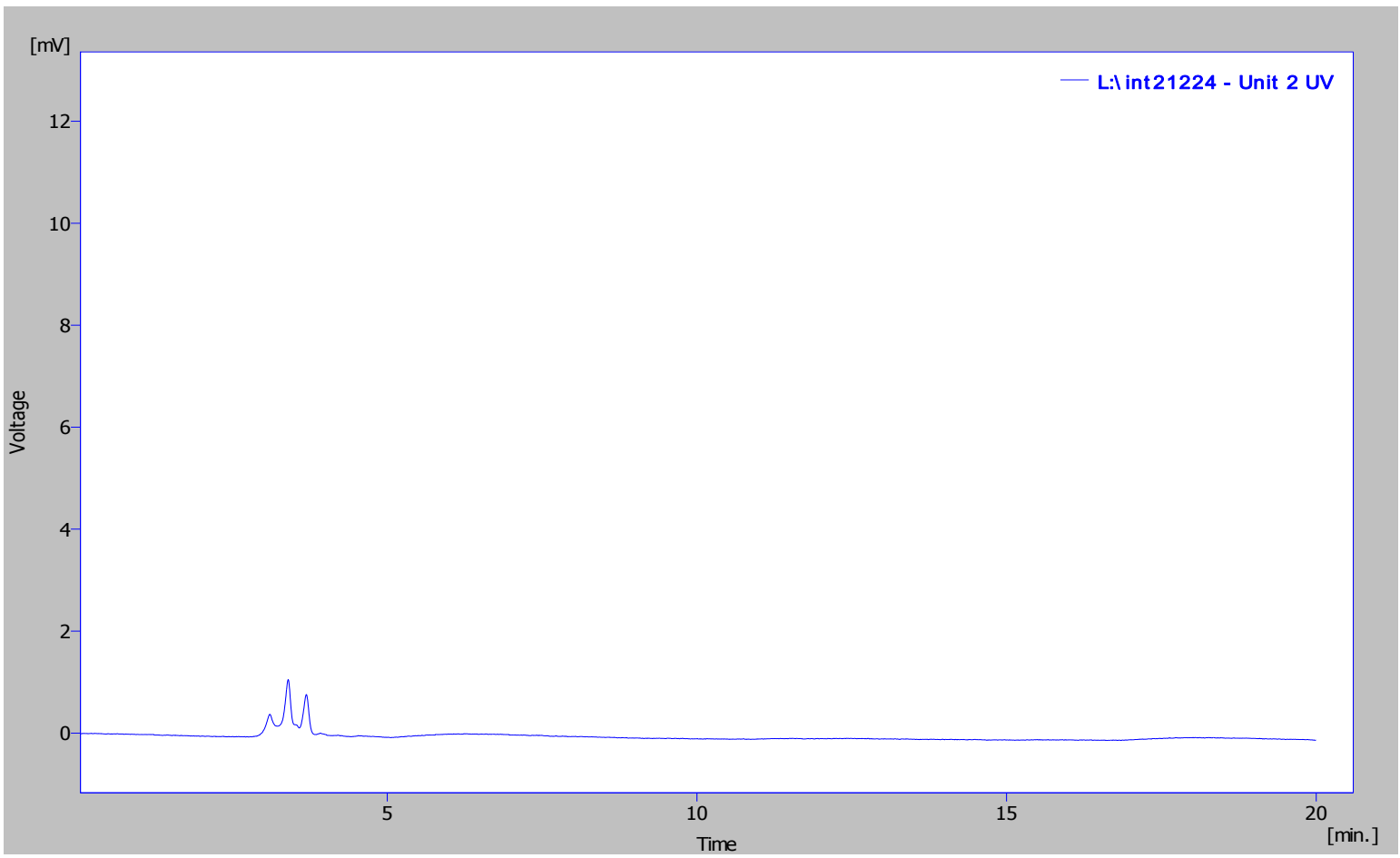
Result Table (Uncal - L:\int21225 - Unit 2 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		9.810	100.00	1388.883	80.120	100.000	8092.987
		Total	100.00	1388.883	80.120	100.000	

M-1735
Lopinavir
Lot 208-305-000-A-20110502-RT

Chromatogram Info:

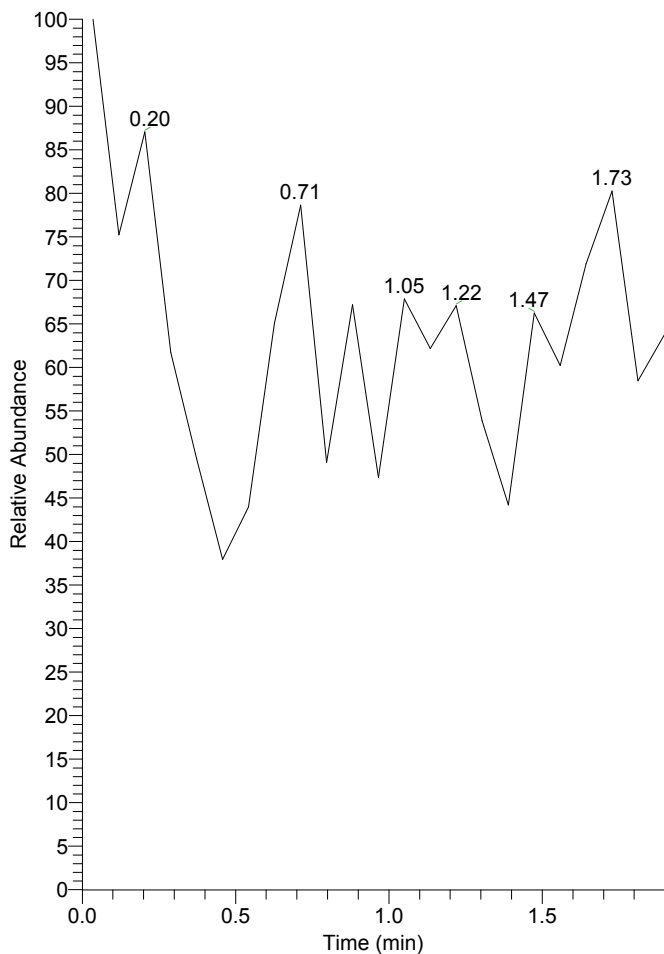
File Name	: L:\int21224	File Created	: 11/14/2013 3:48:14 PM
Origin	: Acquired, Acquisition started 7/19/2011 2:56:58 PM	Acquired Date	: 7/19/2011 3:16:58 PM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 11/14/2013 3:53 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 220nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int21224 - Unit 2 UV)

Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.p]
No peak to report						

RT: 0.00 - 1.90



NL:
1.96E9
TIC MS
M1735-20110502-RT-MS

M1735-20110502-RT-MS#1-23 RT: 0.03-1.90

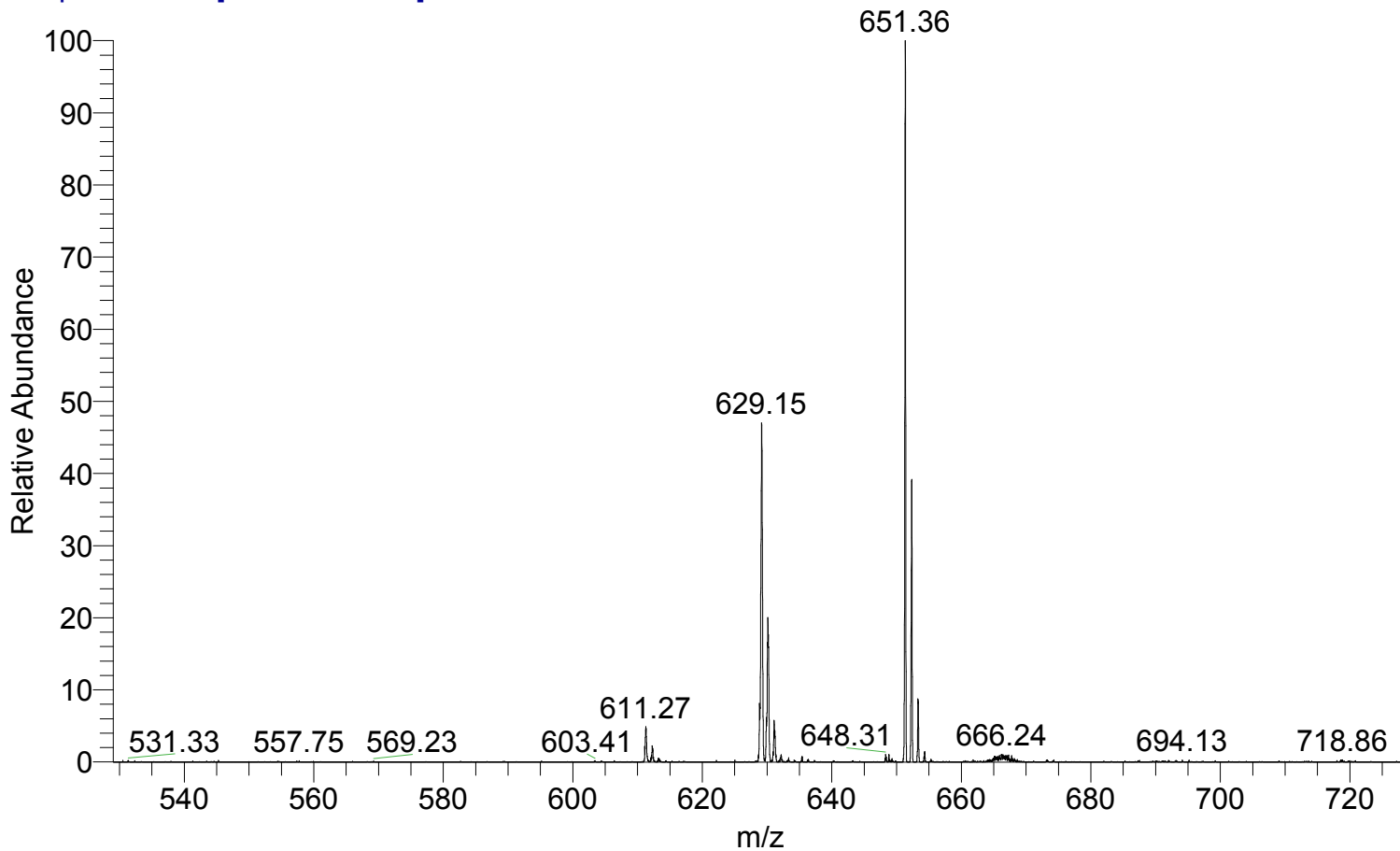
T: + p NSI Z ms [529.00-729.00]

m/z= 617.33-673.05

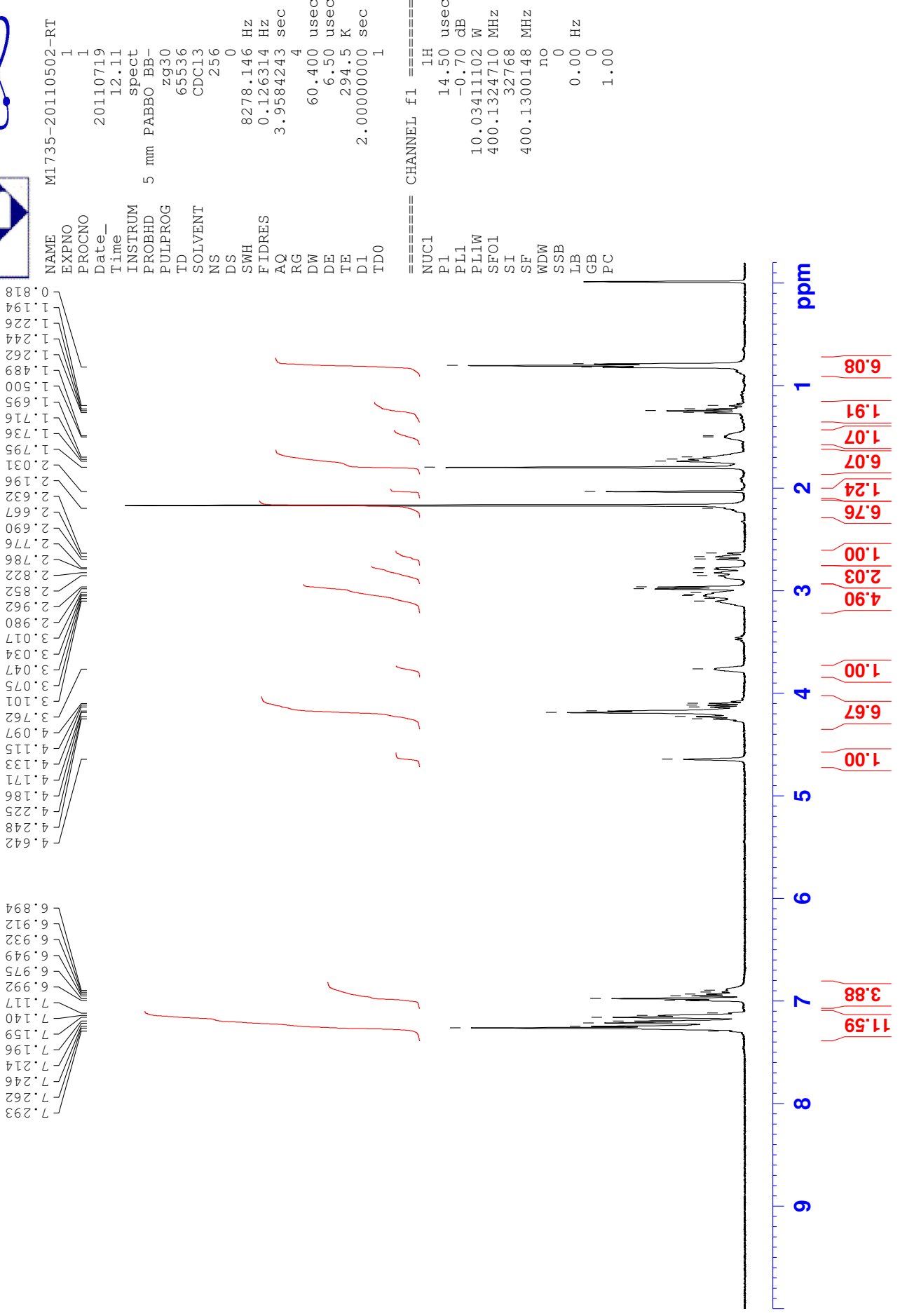
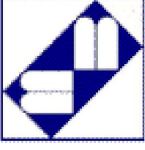
m/z	Intensity	Relative
629.14	346684480.0	91.29
630.12	146921296.0	38.69
631.13	35498304.0	9.35
632.15	5577284.5	1.47
633.27	1819234.5	0.48
635.39	2226486.8	0.59
636.33	1021855.8	0.27
648.33	3654104.8	0.96
648.87	2944958.0	0.78
649.36	992094.8	0.26
651.34	379766464.0	100.00
652.32	161070960.0	42.41
653.33	36656240.0	9.65
654.32	5443838.5	1.43
655.36	983834.7	0.26
664.28	2514586.5	0.66
665.21	9935363.0	2.62
666.26	17608362.0	4.64
667.14	9752919.0	2.57
668.10	6070616.0	1.60

M1735-20110502-RT-MS #1-23 RT: 0.03-1.90 AV: 23 NL: 1.24E7

T: + p NSI Z ms [529.00-729.00]



M1735 1H NMR in CDCl3
Batch 20110502-RT



15/May/03 09:35:55

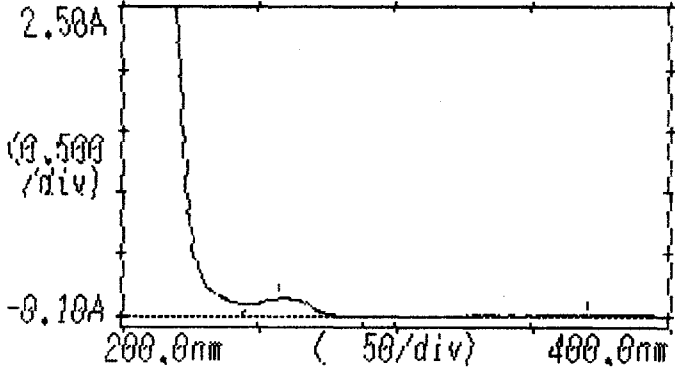
Peak Detection

Abscis.	ABS	Abscis.	ABS
370.0	0.009		
258.5	0.151		

Blank Peak Valley

15/May/03 09:36:24

Data Processing



Blank Peak Valley