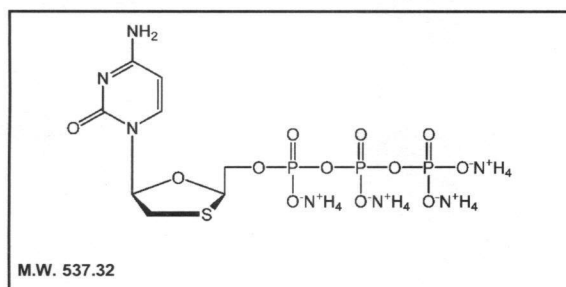




Product Data Sheet

M-395

(-)- β -L-2',3'-Dideoxy-3'-thiacytidine triphosphate, tetraammonium salt

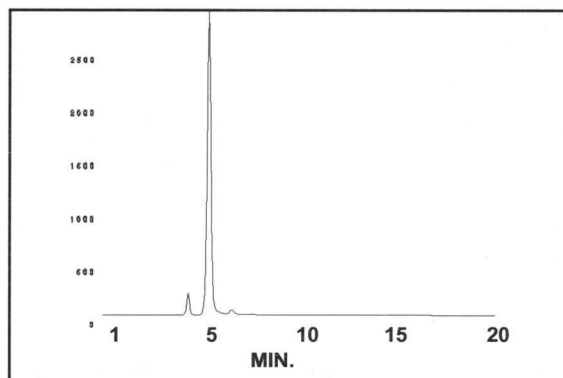


Lot #: 167-132-000-A-20090630-JH

Packaged as: Solid

Date of Analysis: April 12, 2011

Chemical Purity @ 271nm: 93.3%



HPLC ANALYSIS LOT 167-132-000-A-20090630-JH
File Name: int21047 Date and Time: 4/12/2011 9:00:07 AM
Unit 2 UV

Peak #	Area %	Time	Area
1	0.05	3.69670	2.28371
2	5.00	4.39330	220.69947
3	93.32	5.43670	4116.59452
4	1.39	6.59670	61.46152
5	0.23	7.63670	10.05568
Totals	100.00		4411.09490

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-395

(-)- β -L-2',3'-Dideoxy-3'-thiacytidine triphosphate, tetraammonium salt

Lot 167-132-000-A-20090630-JH

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

Concentrations and volumes:

(-)- β -L-2',3'-Dideoxy-3'-thiacytidine triphosphate, tetraammonium salt concentration was 3.5 mg/ml.

Volume of **(-)- β -L-2',3'-Dideoxy-3'-thiacytidine triphosphate, tetraammonium salt** injection was 2.0 μ l.

Volume of blank injection was 2.0 μ l.

B) Mass spectrometry- Positive mode

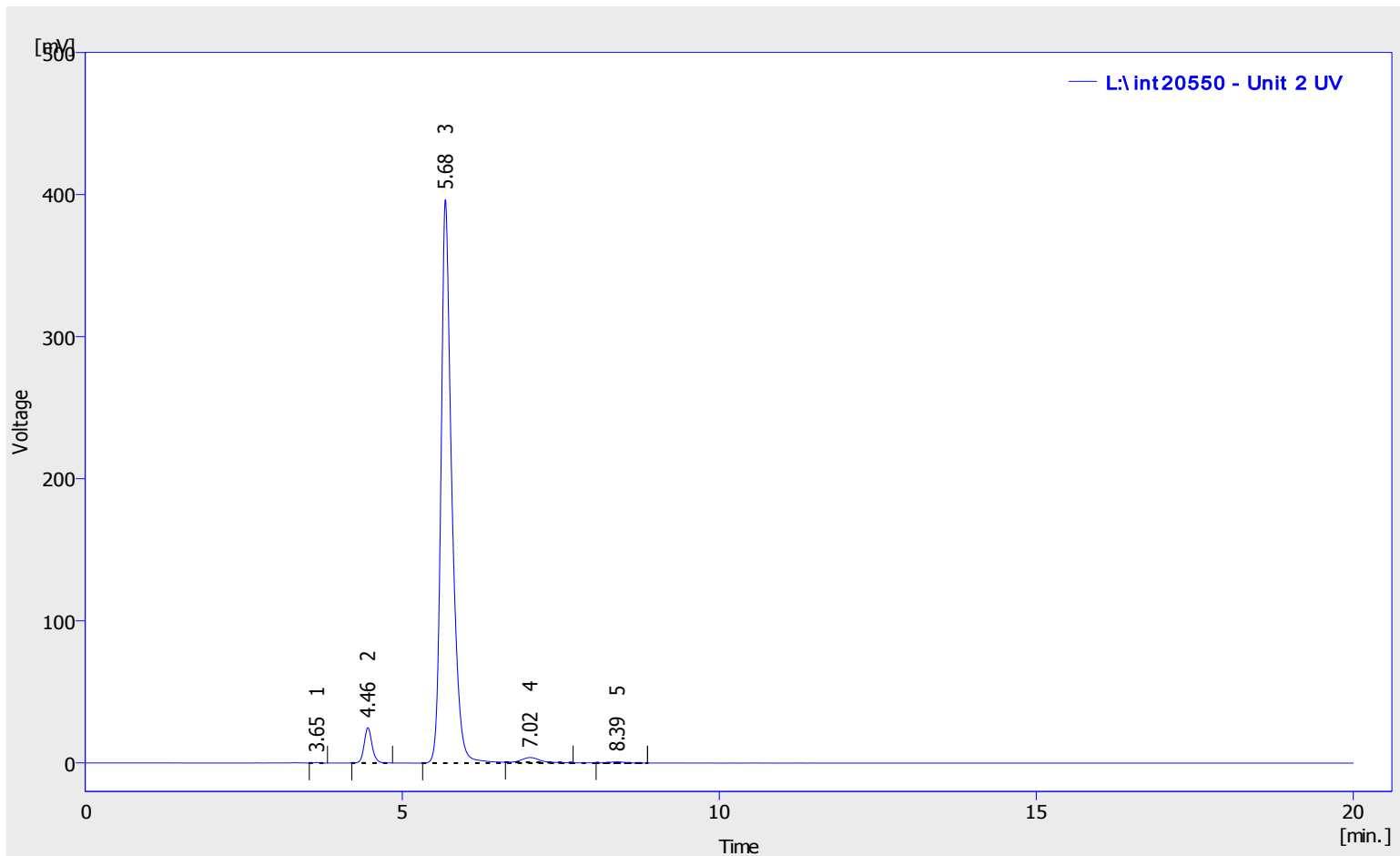
C) NMR

D) UV spectrum

M-395
(-)-β-L-2',3'-Dideoxy-3'-thiacytidine triphosphate, tetraammonium salt
Lot 167-132-000-A-20090630-JH

Chromatogram Info:

File Name	: L:\int20550	File Created	: 6/9/2010 9:34:10 AM
Origin	: Acquired	Acquired Date	: 6/9/2010 9:33:38 AM
Project	: Work1	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of (-)-β-L-2',3'-Dideoxy-3'-thiacytidine triphosphate, tetraammonium salt		
Created	: 8/8/2007 9:12 AM	Modified	: 6/17/2010 4:03 PM
Column	: Supelco Discovery C18 4.6 x 250mm	Detection	: 271nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



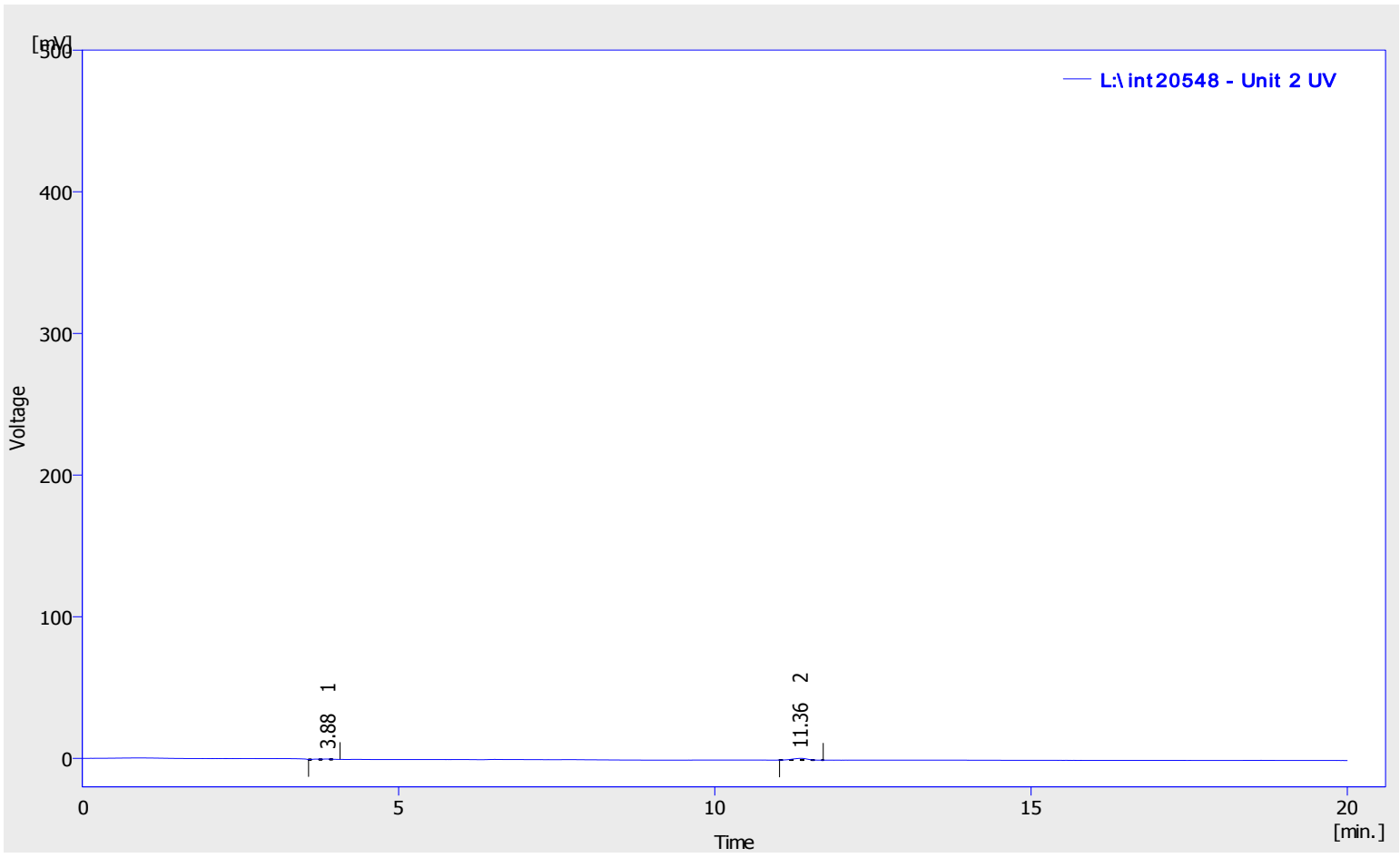
Result Table (Uncal - L:\int20550 - Unit 2 UV)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	3.653	2.188	0.343	0.04	0.1	0.10
2	4.457	215.826	24.889	4.29	5.8	0.13
3	5.680	4732.310	396.665	94.10	93.1	0.17
4	7.017	66.607	3.452	1.32	0.8	0.30
5	8.390	11.826	0.766	0.24	0.2	0.24
	Total	5028.757	426.115	100.00	100.0	

M-395
(-)-β-L-2',3'-Dideoxy-3'-thiacytidine triphosphate, tetraammonium salt
Lot 167-132-000-A-20090630-JH

Chromatogram Info:

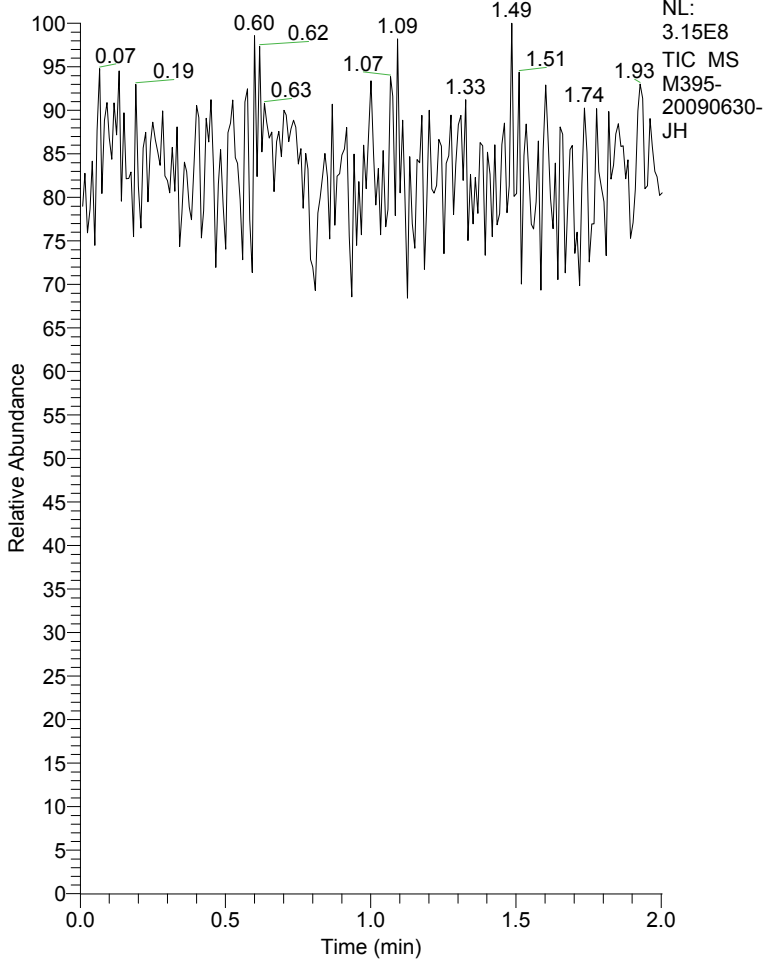
File Name	: L:\int20548	File Created	: 6/8/2010 2:27:26 PM
Origin	: Acquired	Acquired Date	: 6/8/2010 2:26:53 PM
Project	: Work1	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of blank injection		
Created	: 8/8/2007 9:12 AM	Modified	: 6/17/2010 4:05 PM
Column	: Supelco Discovery C18 4.6 x 250mm	Detection	: 271nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int20548 - Unit 2 UV)

	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]
1	3.883	6.197	0.333	23.60	21.0	0.31
2	11.357	20.062	1.254	76.40	79.0	0.26
	Total	26.259	1.587	100.00	100.0	

RT: 0.00 - 2.00



M395-20090630-JH#1-240 RT: 0.01-2.00 AV:

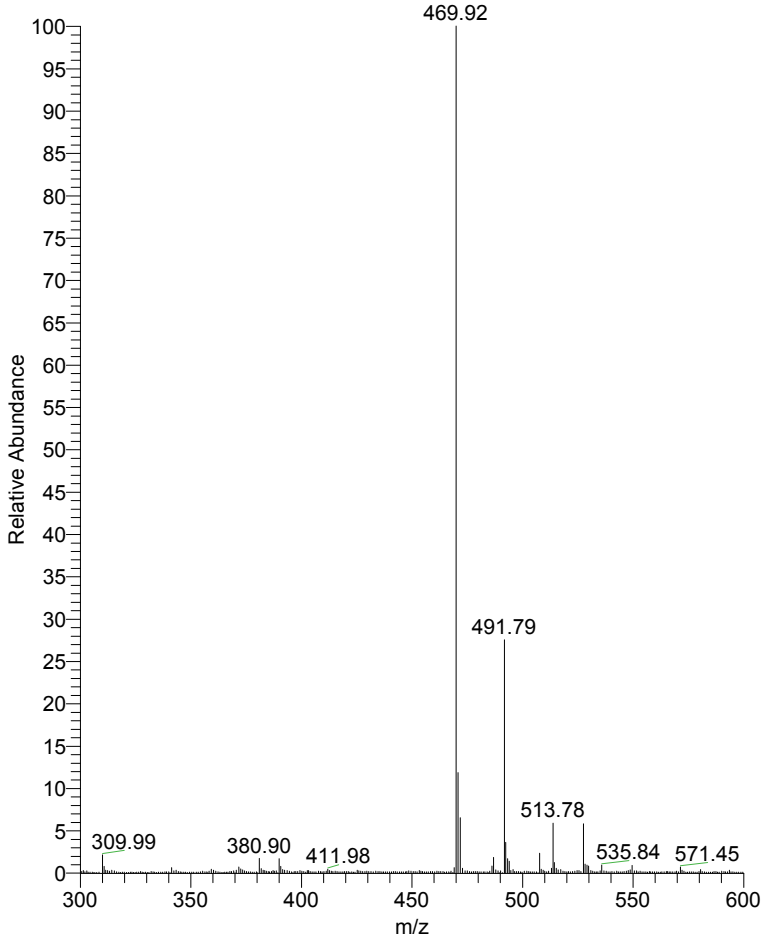
T: + c NSI Full ms [300.00-600.00]

m/z = 458.61-483.73

m/z	Intensity	Relative
462.09	191699.2	0.17
463.03	190188.5	0.17
463.97	188053.6	0.17
466.60	154958.3	0.14
467.72	238059.3	0.22
469.08	694436.2	0.63
469.92	109676905.5	100.00
470.78	12991419.9	11.85
471.88	7169070.8	6.54
472.90	613790.6	0.56
473.95	262503.7	0.24
475.06	286180.4	0.26
476.02	190393.6	0.17
477.72	168236.8	0.15
478.60	190600.4	0.17
479.48	175126.6	0.16
481.27	161904.7	0.15

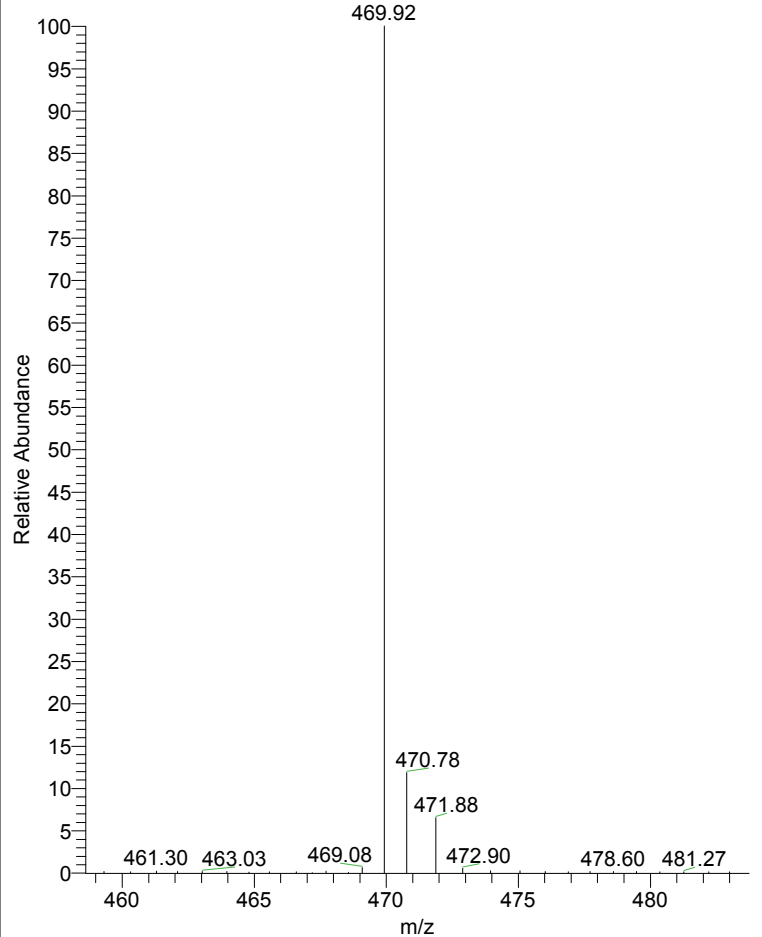
M395-20090630-JH #1-240 RT: 0.01-2.00 AV: 240 NL: 1.10E8

T: + c NSI Full ms [300.00-600.00]



M395-20090630-JH #1-240 RT: 0.01-2.00 AV: 240 NL: 1.10E8

T: + c NSI Full ms [300.00-600.00]



M395 1H NMR in D2O
Batch 20090630-JH

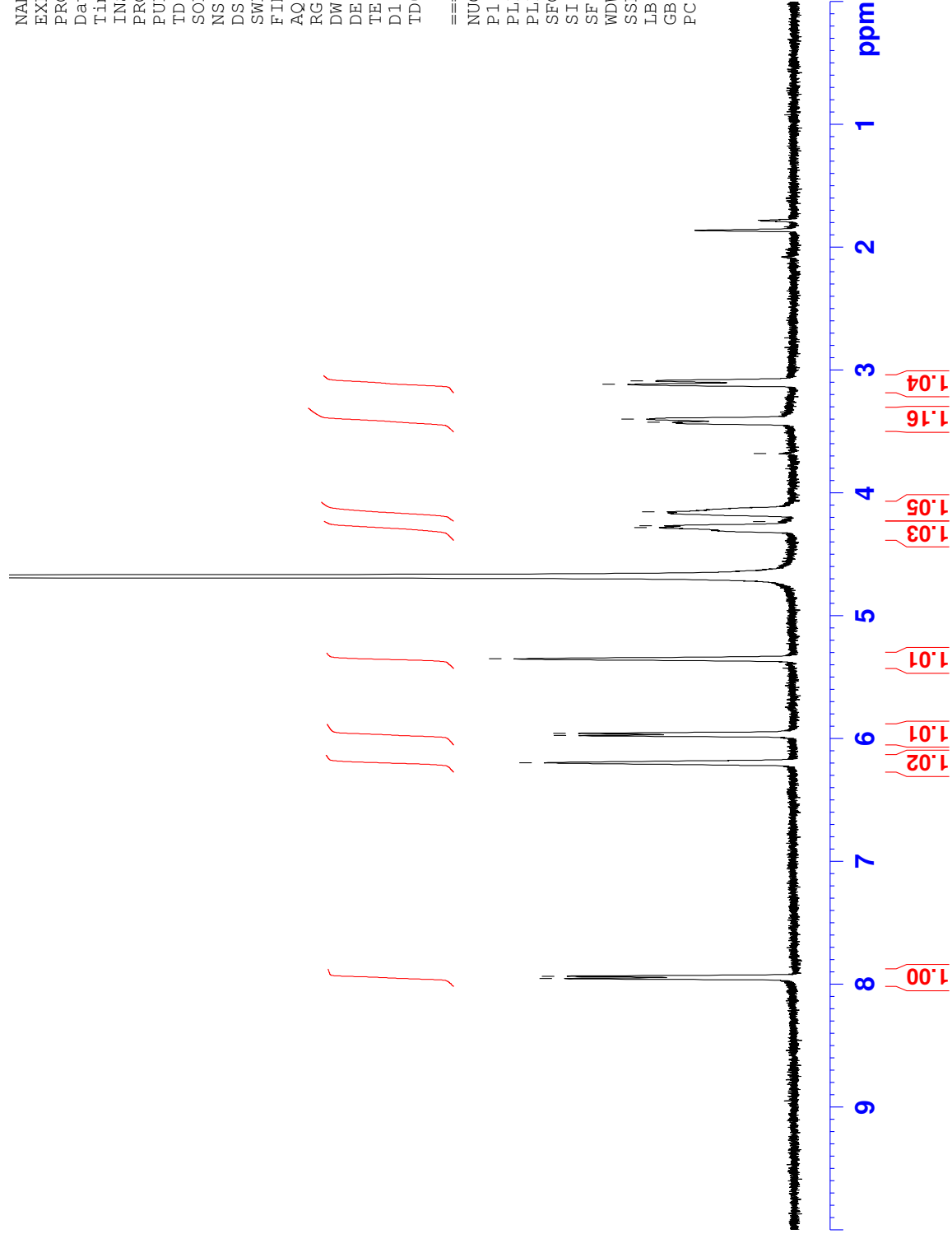


7.954
7.936
6.198
5.975
5.958
5.351
4.283
4.268
4.234
4.155
3.680
3.425
3.400
3.116
3.089

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NAME M395
EXPNO 1
PROCNO 1
Date_ 20100604
Time 11.47
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT D2O
NS 512
DS 2
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 4
DW 60.400 usec
DE 6.50 usec
TE 294.7 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.50 usec
PL1 -0.70 dB
PL1W 10.03411102 W
SF01 400.1324710 MHz
SI 32768
SF 400.1300062 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
  
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25/Jan/;1 08:26:56

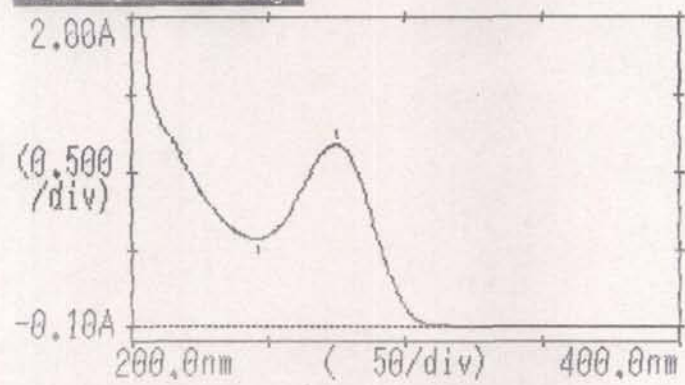
Peak detection

Abscis.	ABS	Abscis.	ABS
275.0	1.178		

Graph PrintOut Valley

25/Jan/;1 08:27:28

Data Processing



PrintOut Peak Valley