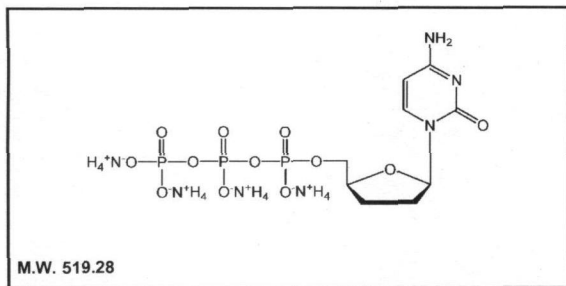




Product Data Sheet

M-714

2',3'-Dideoxycytidine 5'-triphosphate, tetraammonium salt

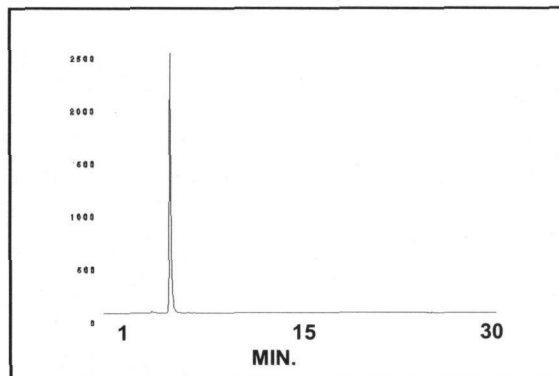


Lot #: 548-104-000-A-20090923-JH

Packaged as: Solid

Date of Analysis: October 01, 2009

Chemical Purity @ 280nm: 99.6%



HPLC ANALYSIS LOT 548-104-000-A-20090923-JH
File Name: int42145 Date and Time: 10/1/2009 1:03:40 PM
Unit 4 UV

Peak #	Area %	Time	Area
1	99.67	5.17000	2056.68367
2	0.15	6.52000	3.07502
3	0.18	6.95330	3.66123
Totals	100.00		2063.41992

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-714

2',3'-Dideoxycytidine 5'-triphosphate, tetraammonium salt

Lot 548-104-000-A-20090923-JH

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

Concentrations and volumes:

2',3'-Dideoxycytidine 5'-triphosphate, tetraammonium salt solution concentration was 1.0 mg/ml.

Volume of **2',3'-Dideoxycytidine 5'-triphosphate, tetraammonium salt** injection was 2.0 μ l.

Volume of blank injection was 2.0 μ l.

B) Mass spectrometry - Negative mode

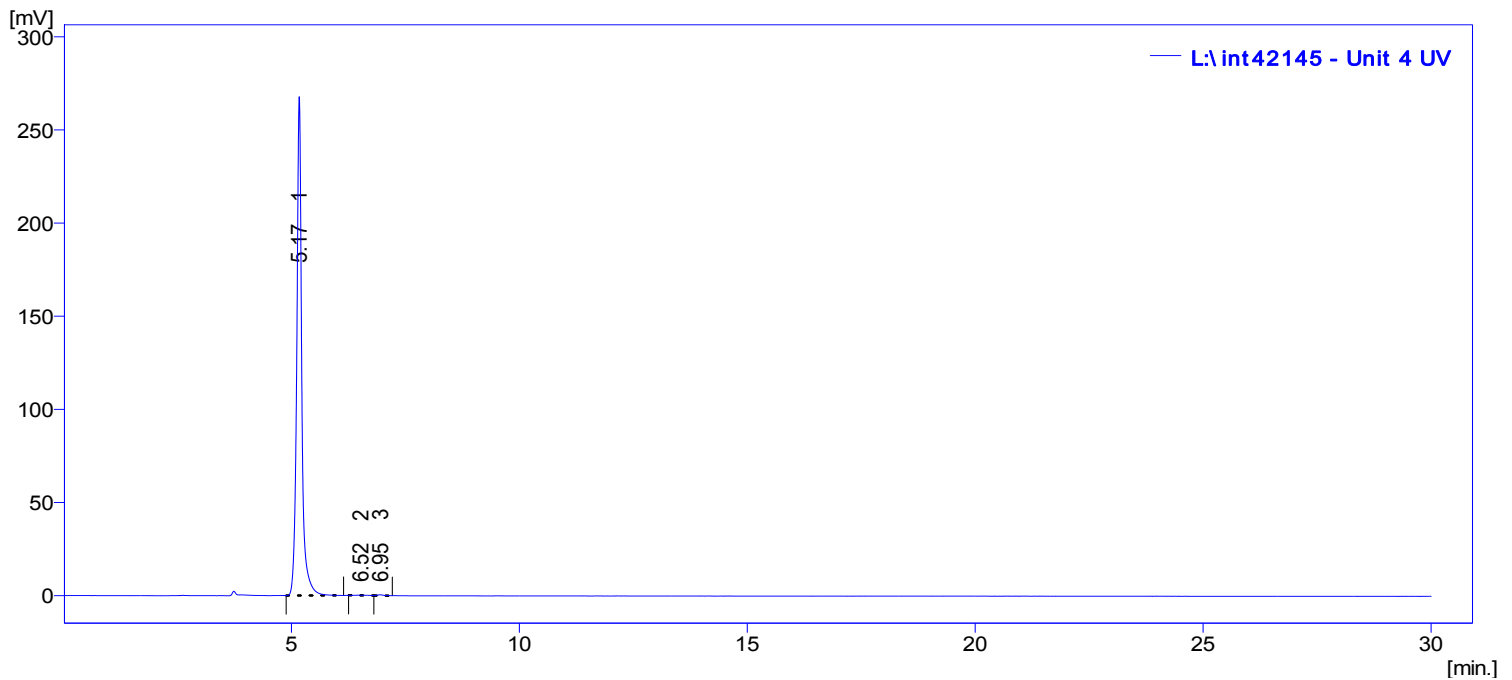
C) NMR

D) UV Spectrometry

M-714
2',3'-Dideoxycytidine 5'-triphosphate, tetraammonium salt
Lot 548-104-000-A-20090923-JH

Chromatogram Info:

File Name	: L:\int42145	File Created	: 4/18/2014 11:33:21 AM
Origin	: Acquired, Acquisition started 10/1/2009 12:33:42 PM	Acquired Date	: 10/1/2009 1:03:40 PM
Project	: Work1	By	: Administrator
Method	: Unit4-30minrun	By	: Administrator
Description	: UV trace of 2',3'-Dideoxycytidine 5'-triphosphate, tetraammonium salt		
Created	: 8/7/2007 9:44 AM	Modified	: 4/18/2014 11:40 AM
Column	:	Detection	: UV 280nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



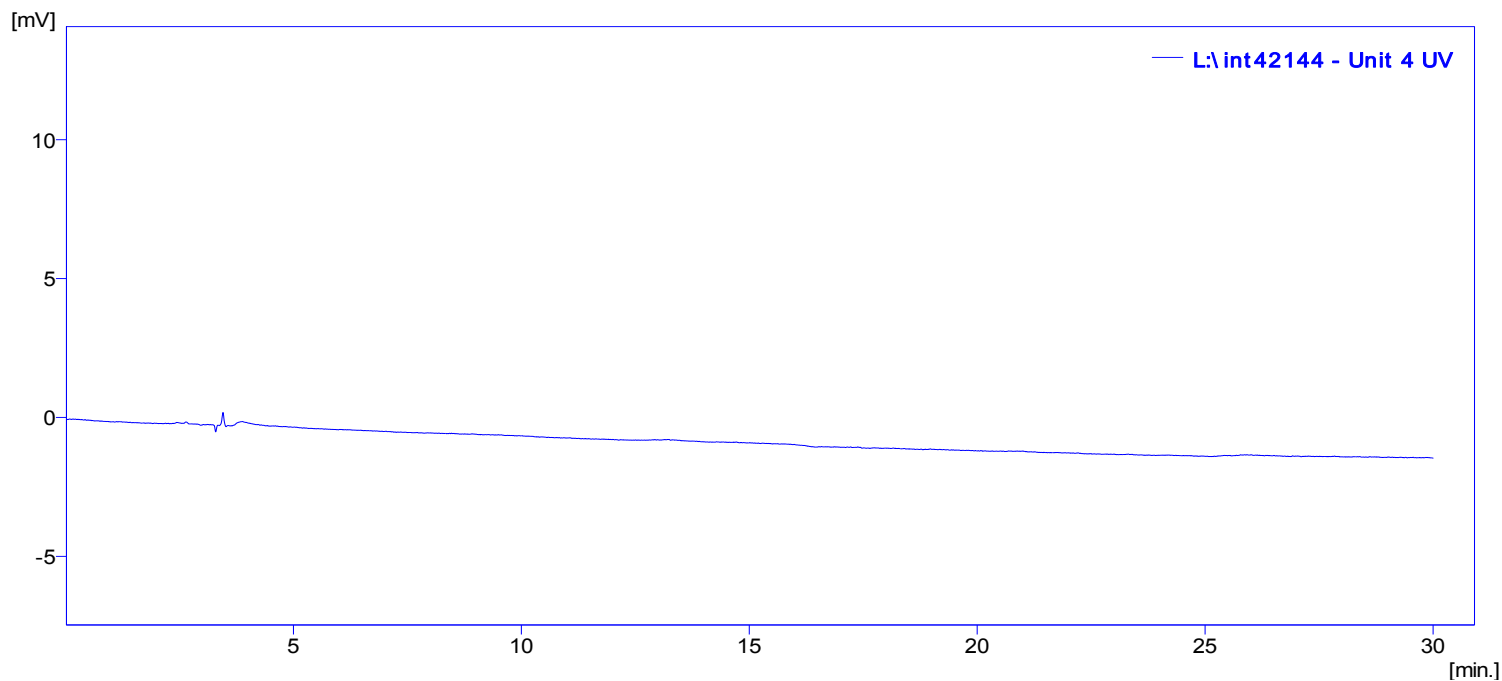
Result Table (Uncal - L:\int42145 - Unit 4 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	5.17	2056.684	267.79	99.67	99.8	0.11	13015	260294		1.14	
2	6.52	3.075	0.16	0.15	0.1	0.33	2163	43252	3.65	1.07	
3	6.95	3.661	0.42	0.18	0.2	0.13	15849	316985	1.11	1.19	
Total		2063.420	268.37	100.00	100.0						

M-714
2',3'-Dideoxycytidine 5'-triphosphate, tetraammonium salt
Lot 548-104-000-A-20090923-JH

Chromatogram Info:

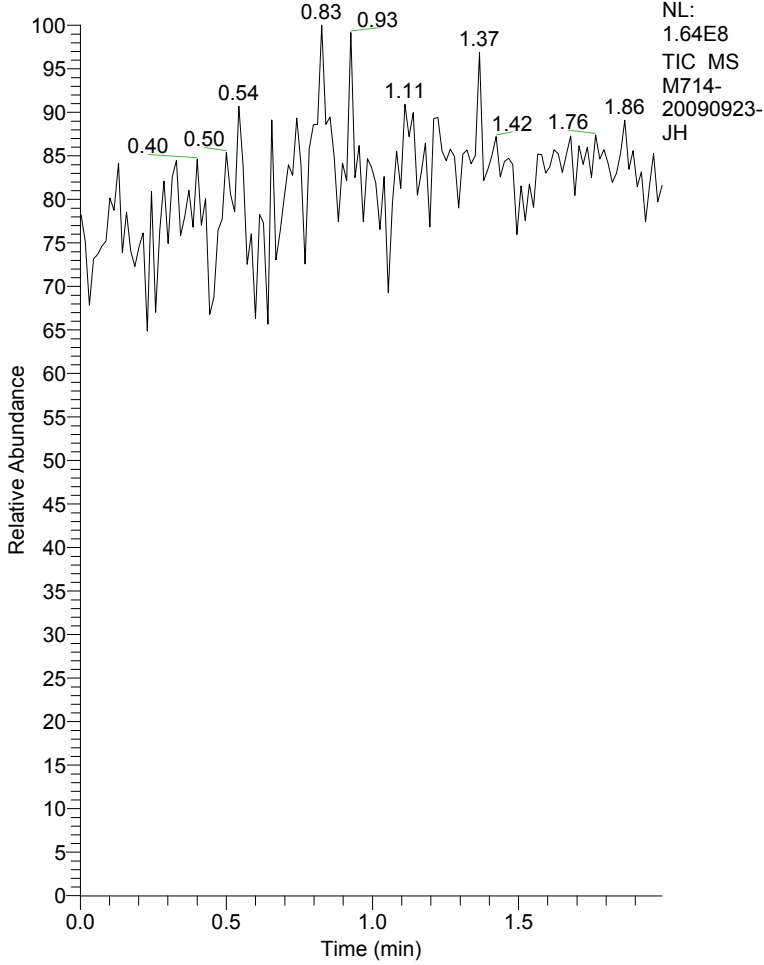
File Name	: L:\int42144	File Created	: 4/18/2014 11:33:21 AM
Origin	: Acquired, Acquisition started 10/1/2009 11:56:10 AM	Acquired Date	: 10/1/2009 12:26:09 PM
Project	: Work1	By	: Administrator
Method	: Unit4-30minrun	By	: Administrator
Description	: UV trace of blank injection		
Created	: 8/7/2007 9:44 AM	Modified	: 4/18/2014 11:37 AM
Column	:	Detection	: UV 280nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int42144 - Unit 4 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
No peak to report											

RT: 0.00 - 1.99



M714-20090923-JH#1-141 RT: 0.00-1.99 AV:

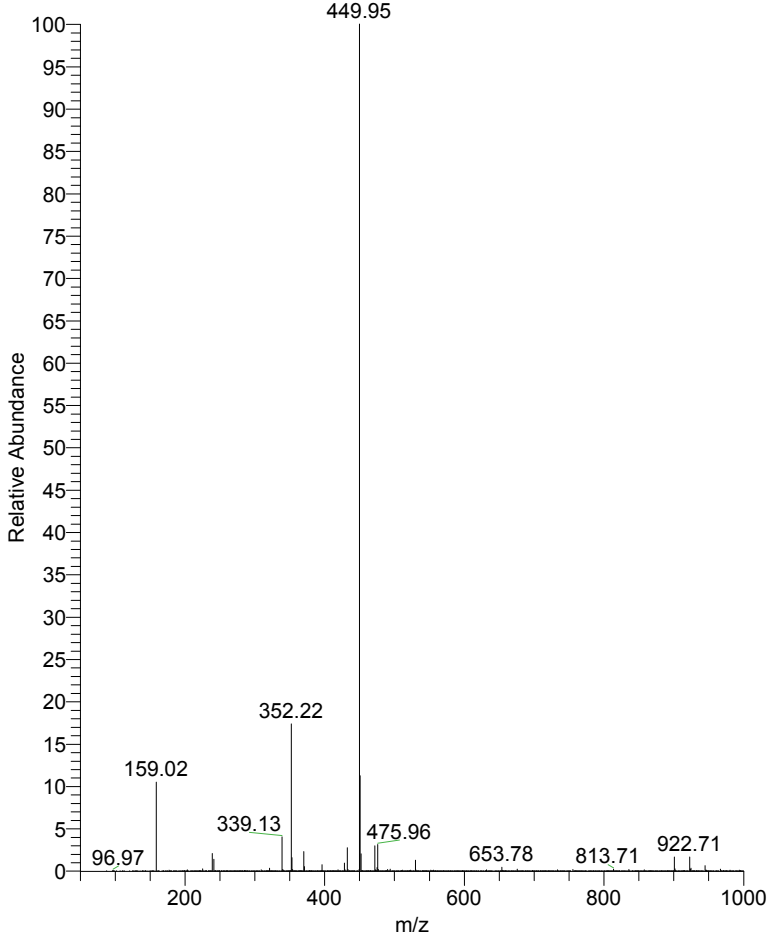
T: - c NSI Full ms [50.00-1000.00]

m/z= 445.70-469.51

m/z	Intensity	Relative
447.19	6899.0	0.01
448.16	19172.3	0.03
449.26	131760.3	0.18
449.95	72809878.9	100.00
450.93	8186670.4	11.24
451.94	1461469.7	2.01
452.93	36564.1	0.05
453.98	54541.8	0.07
454.91	6281.8	0.01
455.95	4360.3	0.01
457.16	7957.2	0.01
457.96	26253.2	0.04
458.94	7957.3	0.01
459.83	3623.8	0.00
460.57	3214.0	0.00
461.13	6725.4	0.01
462.04	31593.0	0.04
462.93	6790.7	0.01
463.80	7652.9	0.01
464.83	34283.4	0.05
465.92	33118.1	0.05
466.92	16307.1	0.02
467.95	6331.0	0.01
469.08	9604.9	0.01

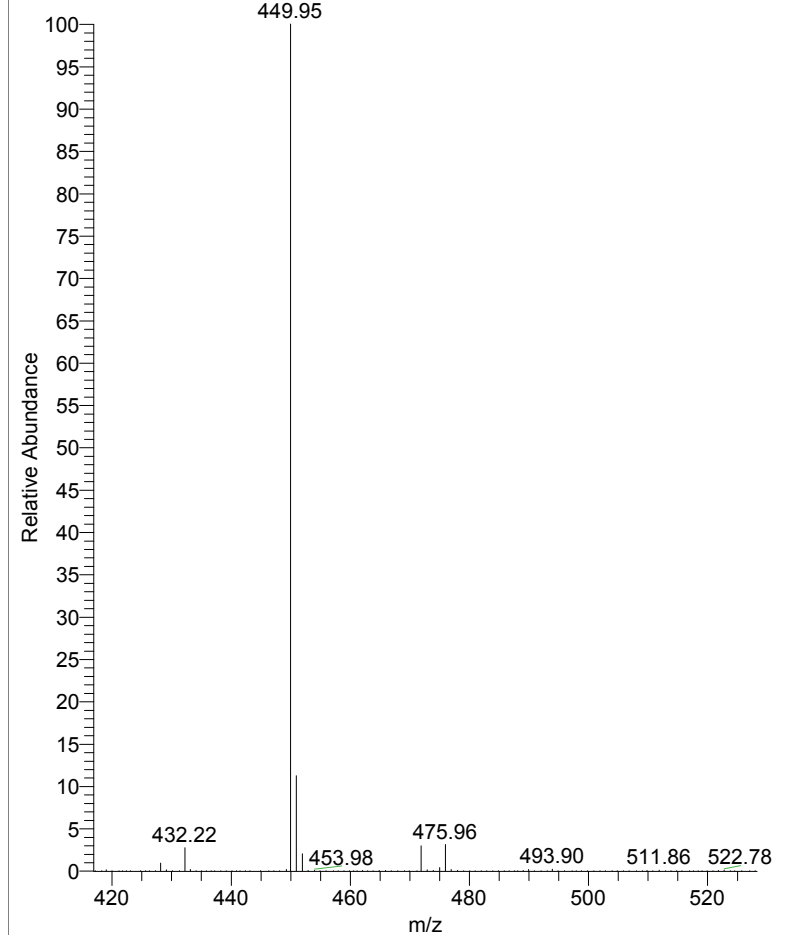
M714-20090923-JH #1-141 RT: 0.00-1.99 AV: 141 NL: 7.28E7

T: - c NSI Full ms [50.00-1000.00]



M714-20090923-JH #1-141 RT: 0.00-1.99 AV: 141 NL: 7.28E7

T: - c NSI Full ms [50.00-1000.00]



M714 1H NMR in D2O
Batch 20090923-JH



7.936
7.917

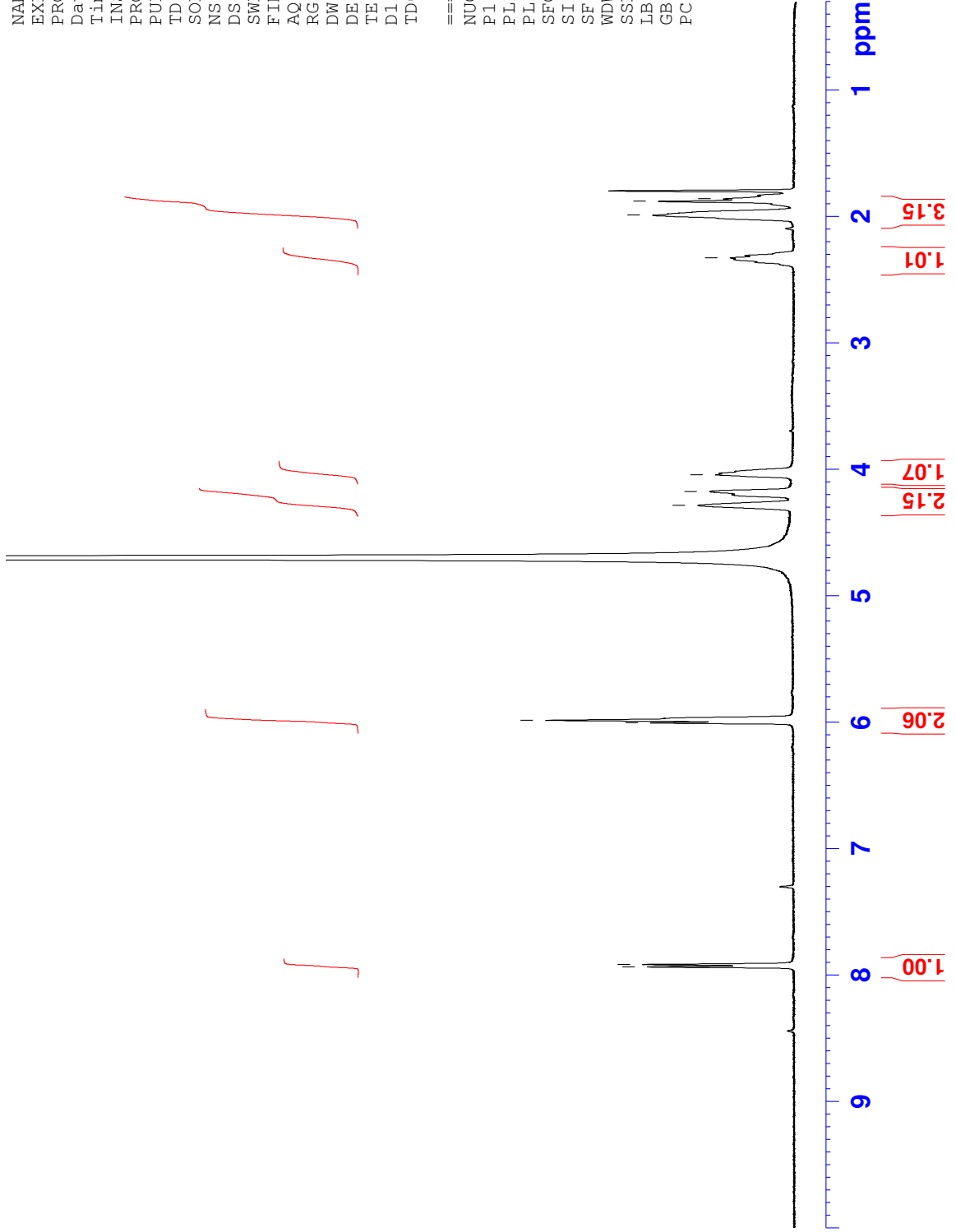
6.005
5.985

4.285
4.176
4.043

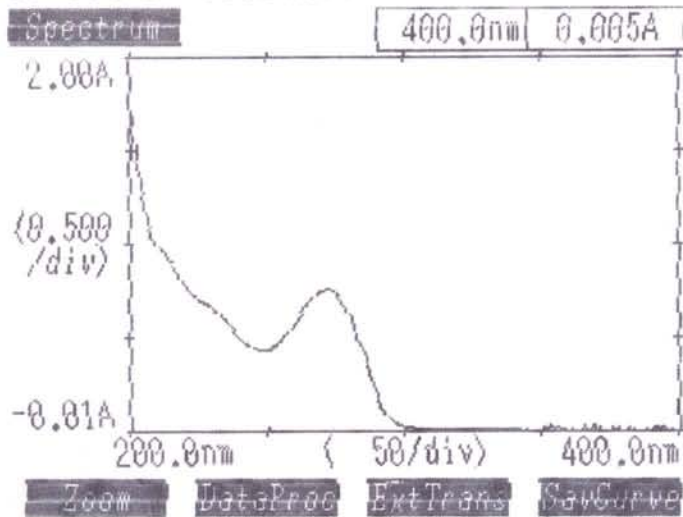
2.327
1.988
1.879
1.859

NAME M714
EXPNO 1
PROCNO 1
Date_ 20091001
Time 11.58
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT D2O
NS 512
DS 2
SWH 4789.272 Hz
FIDRES 0.073078 Hz
AQ 6.8420086 sec
RG 362
DW 104.400 usec
DE 6.50 usec
TE 294.6 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 400.1300000 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



01/oct/09 15:34:11



01/oct/09 15:34:50

Peak detection

Abscis.1	ABS	Abscis.1	ABS
272.5	0.759		

Graph PrintOut Valley