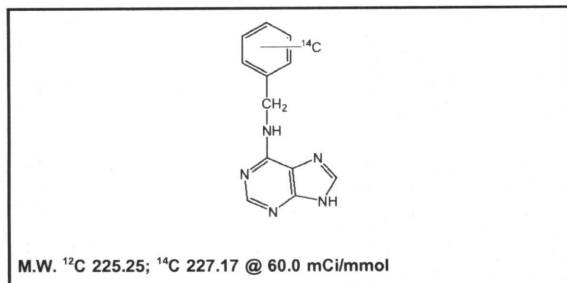




Product Data Sheet

MC-2302

***N*⁶-Benzyladenine, [benzyl ring-¹⁴C]-**



Lot #: 195-057-060-A-20100308-MW

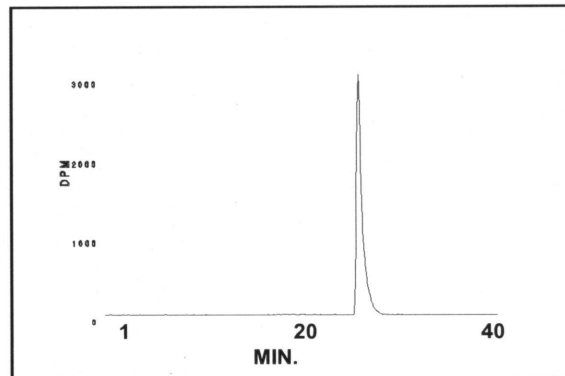
Specific Activity: 60.0 mCi/mmol

Concentration: 0.1 mCi/ml; 378.62 µg/ml

Packaged in: Ethanol solution

Date of Analysis: March 11, 2010

Radiochemical Purity: 99.8%



HPLC ANALYSIS LOT 195-057-060-A-20100308-MW
File Name: int42300 Date and Time: 3/11/2010 4:54:44 PM
Unit 4 Radio

Peak #	Area %	Time	Area
1	99.84	25.90330	12352.34570
2	0.02	27.51000	2.40323
3	0.08	28.49670	9.91567
4	0.06	28.87670	6.98233
Totals	100.00		12371.64693

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.

MC-2302

N⁶-Benzyladenine, [benzyl ring-¹⁴C]-

Lot 195-057-060-A-20100308-MW

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

Concentrations and volumes:

Standard solution concentration was 0.5 mg/ml.

N⁶-Benzyladenine, [benzyl ring-¹⁴C]- concentration was 52.0 µCi/ml.

Volume of standard alone injection was 1.0 µl

Volume of **N⁶-Benzyladenine, [benzyl ring-¹⁴C]-** alone injection was 1.0 µl.

Co-injection solution consisted of 1.0 µl **N⁶-Benzyladenine, [benzyl ring-¹⁴C]-** + 1.0 µl standard.

Volume of co-injection was 2.0 µl.

Volume of blank injection was 1.0 µl.

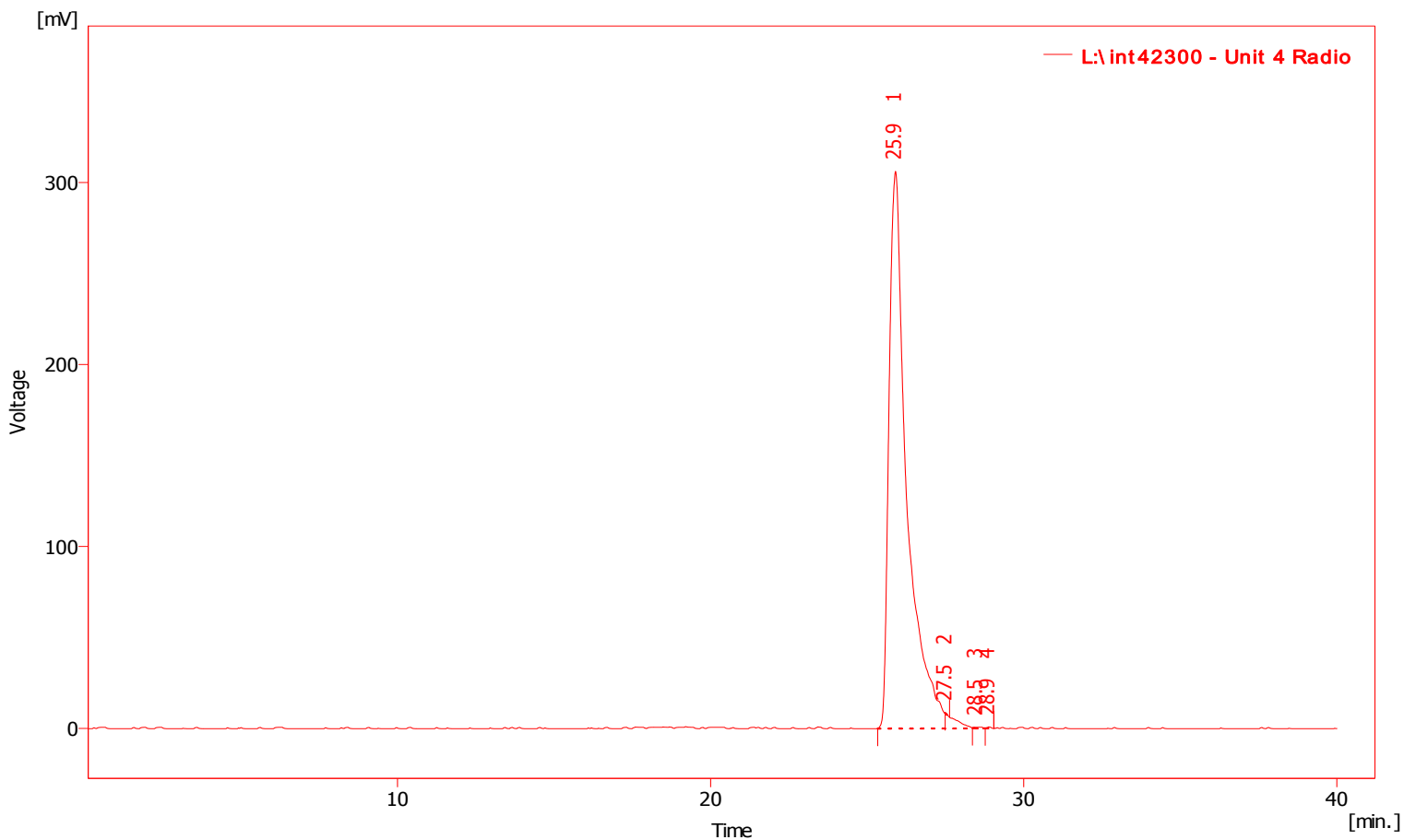
B) Mass spectrometry - Positive mode

C) NMR

MC-2302
N6-Benzyladenine, [benzyl ring-14C]-
Lot 195-057-060-A-20100308-MW

Chromatogram Info:

File Name	: L:\int42300	File Created	: 2/18/2014 10:55:30 AM
Origin	: Acquired, Acquisition started 3/11/2010 4:14:45 PM	Acquired Date	: 3/11/2010 4:54:44 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: Radiochemical trace of 14C material alone	Modified	: 2/18/2014 11:06 AM
Created	: 6/12/2008 10:30 AM	Detection	: Radiochemical
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



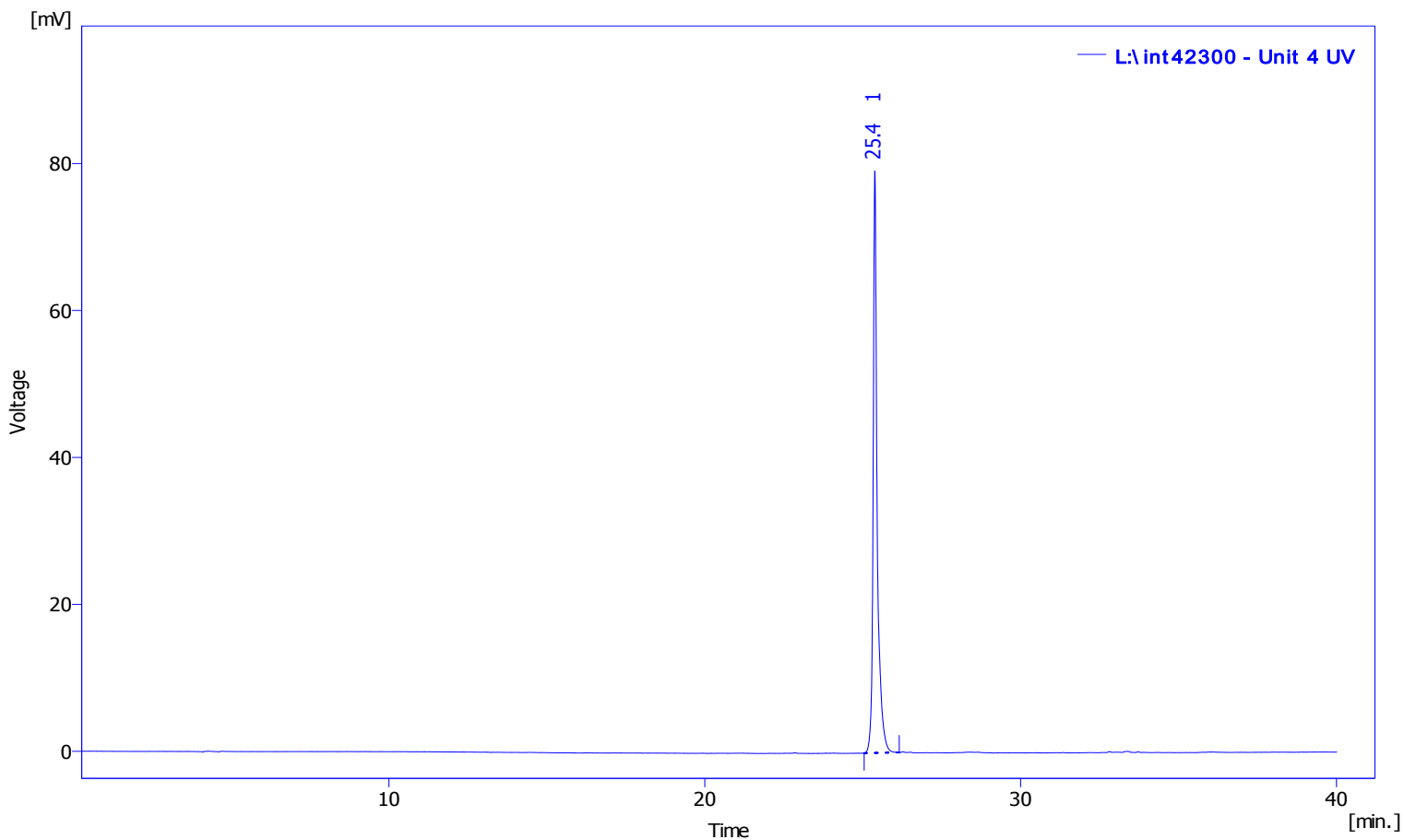
Result Table (Uncal - L:\int42300 - Unit 4 Radio)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		25.90	12352.346	306.27	99.84	99.40	13572.64	271452.77	3.29		
2		27.51	2.403	0.46	0.02	0.15	2620420.35	52408406.92	3.25		3.4
3		28.50	9.916	0.52	0.08	0.17	45823.12	916462.48	1.50		3.3
4		28.88	6.982	0.86	0.06	0.28	235693.61	4713872.25	1.20		1.0
		Total	12371.647	308.11	100.00	100.00					

MC-2302
N6-Benzyladenine, [benzyl ring-14C]-
Lot 195-057-060-A-20100308-MW

Chromatogram Info:

File Name	: L:\int42300	File Created	: 2/18/2014 10:55:30 AM
Origin	: Acquired, Acquisition started 3/11/2010 4:14:45 PM	Acquired Date	: 3/11/2010 4:54:44 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of 14C material alone	Modified	: 2/18/2014 10:59 AM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



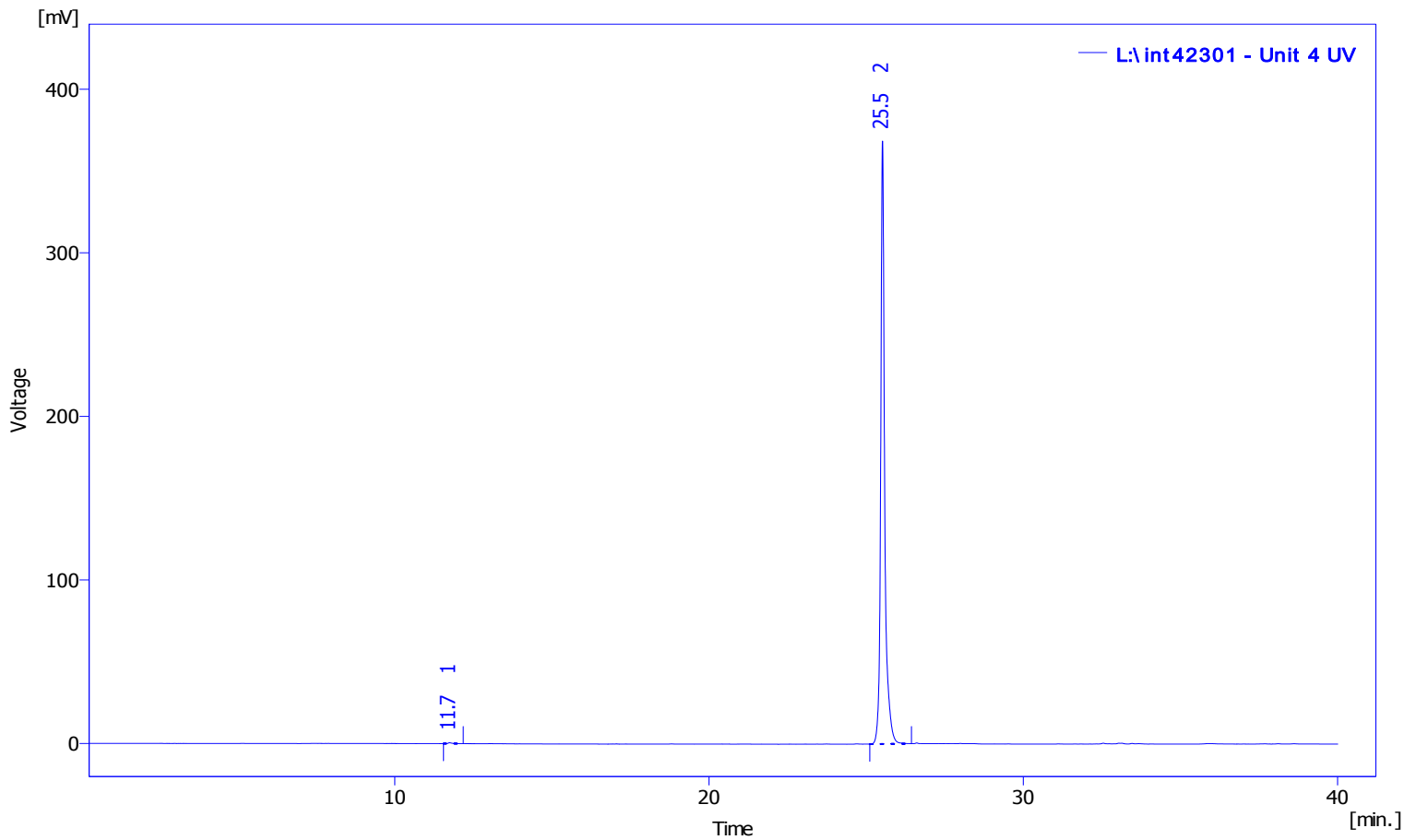
Result Table (Uncal - L:\int42300 - Unit 4 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		25.38	711.912	79.19	100.00	100.00	262248.79	5244975.78	1.45		
		Total	711.912	79.19	100.00	100.00					

MC-2302
N6-Benzyladenine, [benzyl ring-14C]-
Lot 195-057-060-A-20100308-MW

Chromatogram Info:

File Name	: L:\int42301	File Created	: 2/18/2014 10:55:29 AM
Origin	: Acquired, Acquisition started 3/12/2010 10:52:49 AM	Acquired Date	: 3/12/2010 11:32:48 AM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of standard alone	Modified	: 2/18/2014 11:00 AM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



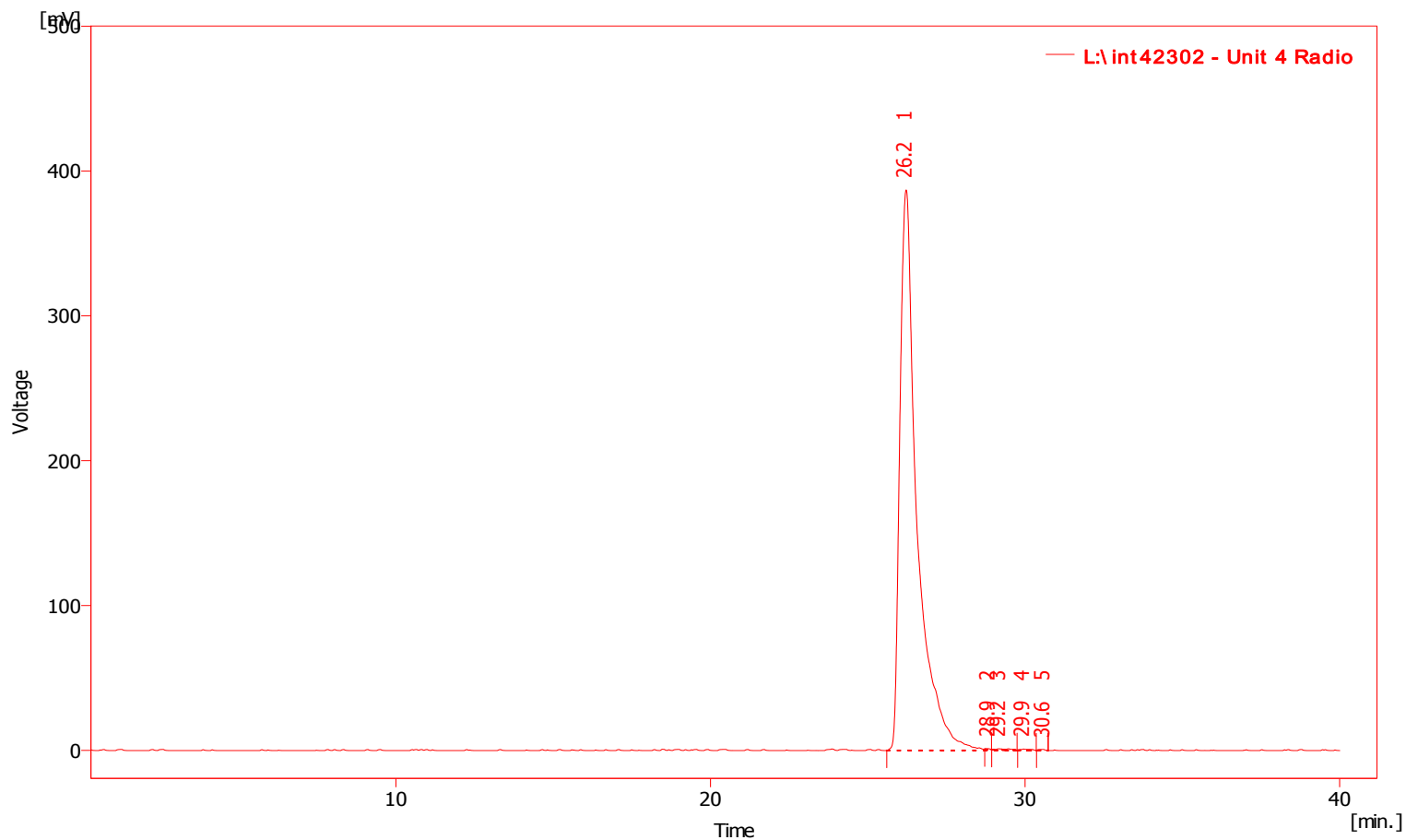
Result Table (Uncal - L:\int42301 - Unit 4 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		11.74	5.093	0.57	0.16	0.15	50226.35	1004526.96	1.98		
2		25.52	3263.886	368.67	99.84	99.85	250558.20	5011163.91	1.30		66.8
		Total	3268.980	369.23	100.00	100.00					

MC-2302
N6-Benzyladenine, [benzyl ring-14C]-
Lot 195-057-060-A-20100308-MW

Chromatogram Info:

File Name	: L:\int42302	File Created	: 2/18/2014 10:55:29 AM
Origin	: Acquired, Acquisition started 3/12/2010 12:11:49 PM	Acquired Date	: 3/12/2010 12:51:48 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: Radiochemical trace of 14C material co-injected with standard	Modified	: 2/18/2014 11:08 AM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



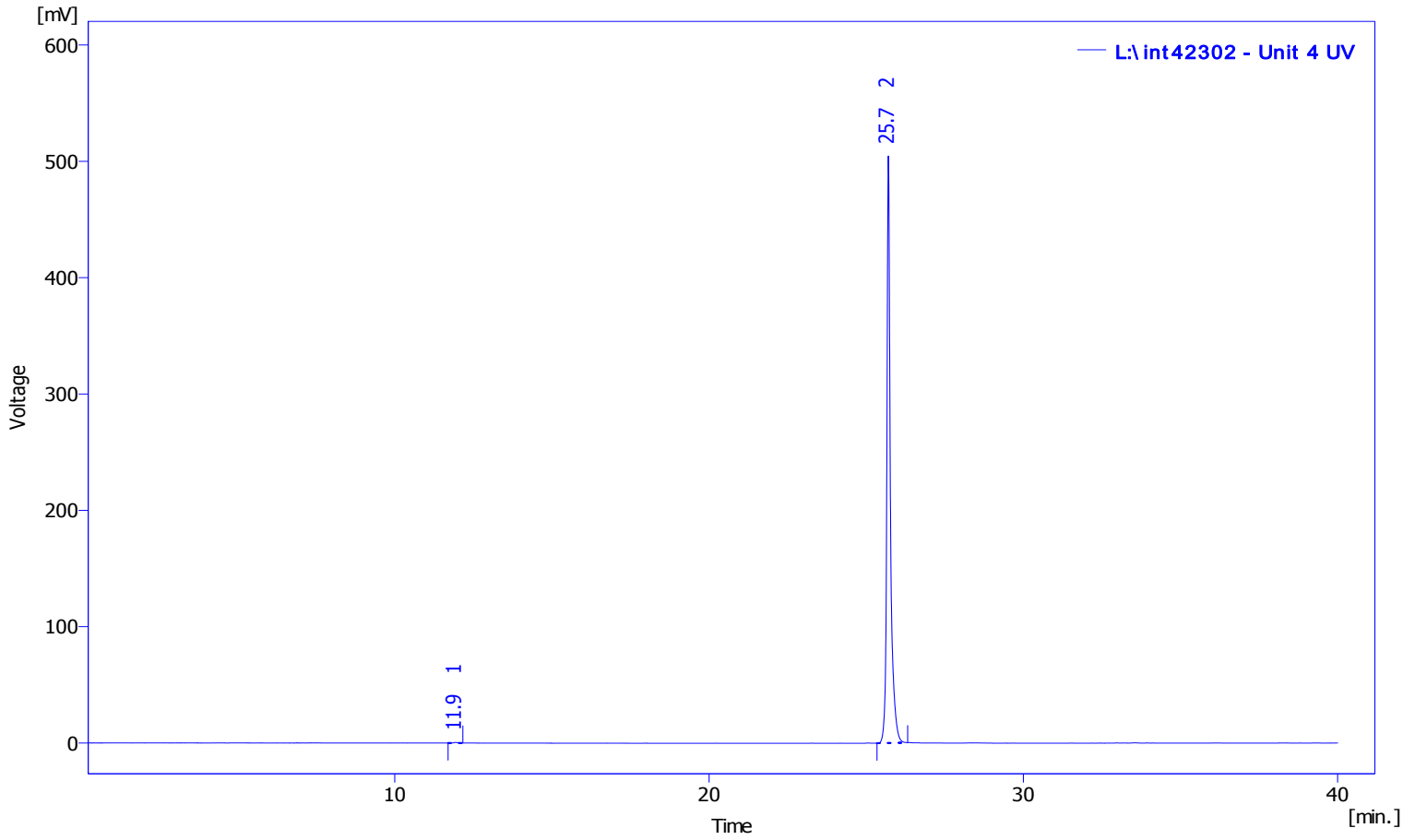
Result Table (Uncal - L:\int42302 - Unit 4 Radio)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		26.22	14711.711	387.13	99.58	99.17	15439.92	308798.45	4.20		
2		28.85	5.151	0.69	0.03	0.18	187866.00	3757320.04	0.84		4.8
3		29.18	26.297	0.86	0.18	0.22	75491.76	1509835.16	1.66		1.0
4		29.95	20.496	0.96	0.14	0.24	24907.86	498157.10	1.55		1.3
5		30.59	9.983	0.73	0.07	0.19	92574.03	1851480.62	0.74		1.1
		Total	14773.638	390.36	100.00	100.00					

MC-2302
N6-Benzyladenine, [benzyl ring-14C]-
Lot 195-057-060-A-20100308-MW

Chromatogram Info:

File Name	: L:\int42302	File Created	: 2/18/2014 10:55:29 AM
Origin	: Acquired, Acquisition started 3/12/2010 12:11:49 PM	Acquired Date	: 3/12/2010 12:51:48 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of 14C material co-injected with standard	Modified	: 2/18/2014 11:07 AM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



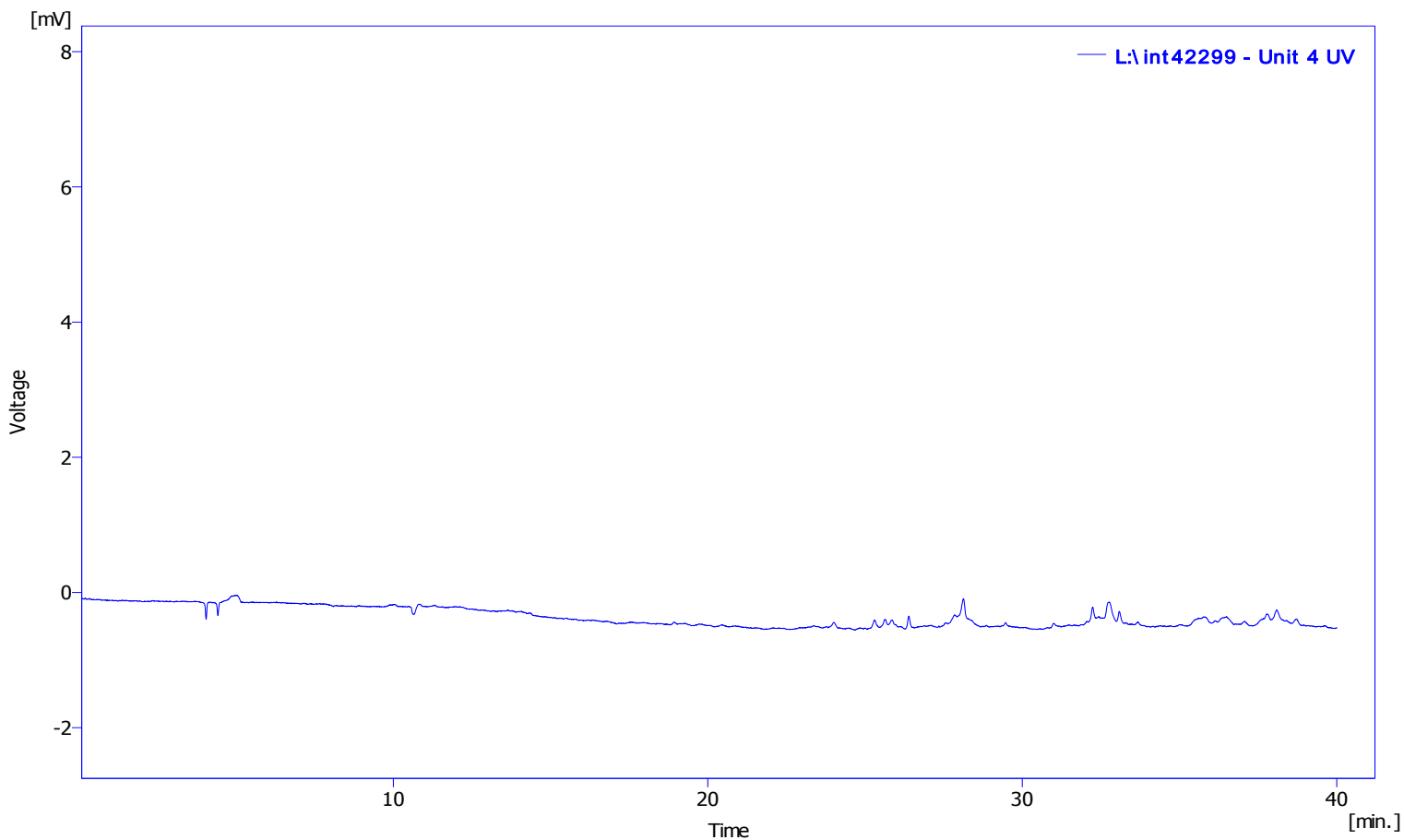
Result Table (Uncal - L:\int42302 - Unit 4 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/l [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		11.93	4.329	0.53	0.11	0.11	54755.55	1095111.04	1.37		
2		25.71	4036.413	504.64	99.89	99.89	321768.74	6435374.80	1.36		71.7
		Total	4040.742	505.18	100.00	100.00					

MC-2302
N6-Benzyladenine, [benzyl ring-14C]-
Lot 195-057-060-A-20100308-MW

Chromatogram Info:

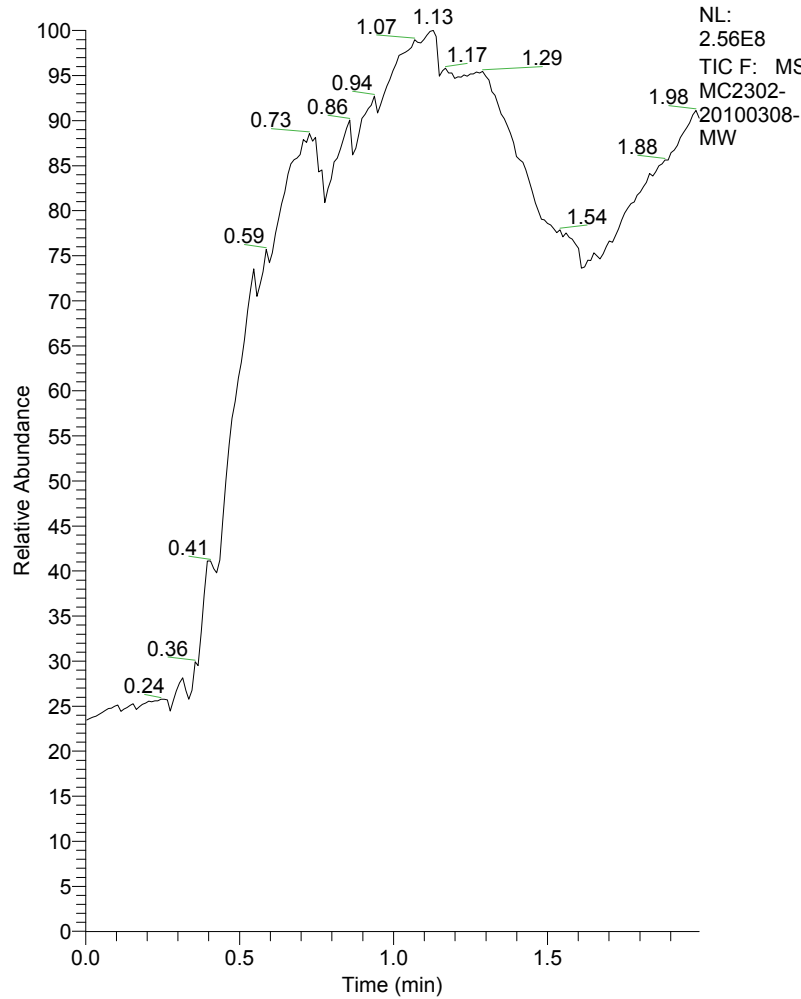
File Name	: L:\int42299	File Created	: 2/18/2014 10:55:29 AM
Origin	: Acquired, Acquisition started 3/11/2010 3:09:59 PM	Acquired Date	: 3/11/2010 3:49:58 PM
Project	: Test	By	: Administrator
Method	: Unit4-40minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 2/18/2014 10:59 AM
Created	: 6/12/2008 10:30 AM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int42299 - Unit 4 UV)

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

RT: 0.00 - 1.99



MC2302-20100308-MW#1-199 RT: 0.00-1.99 AV:

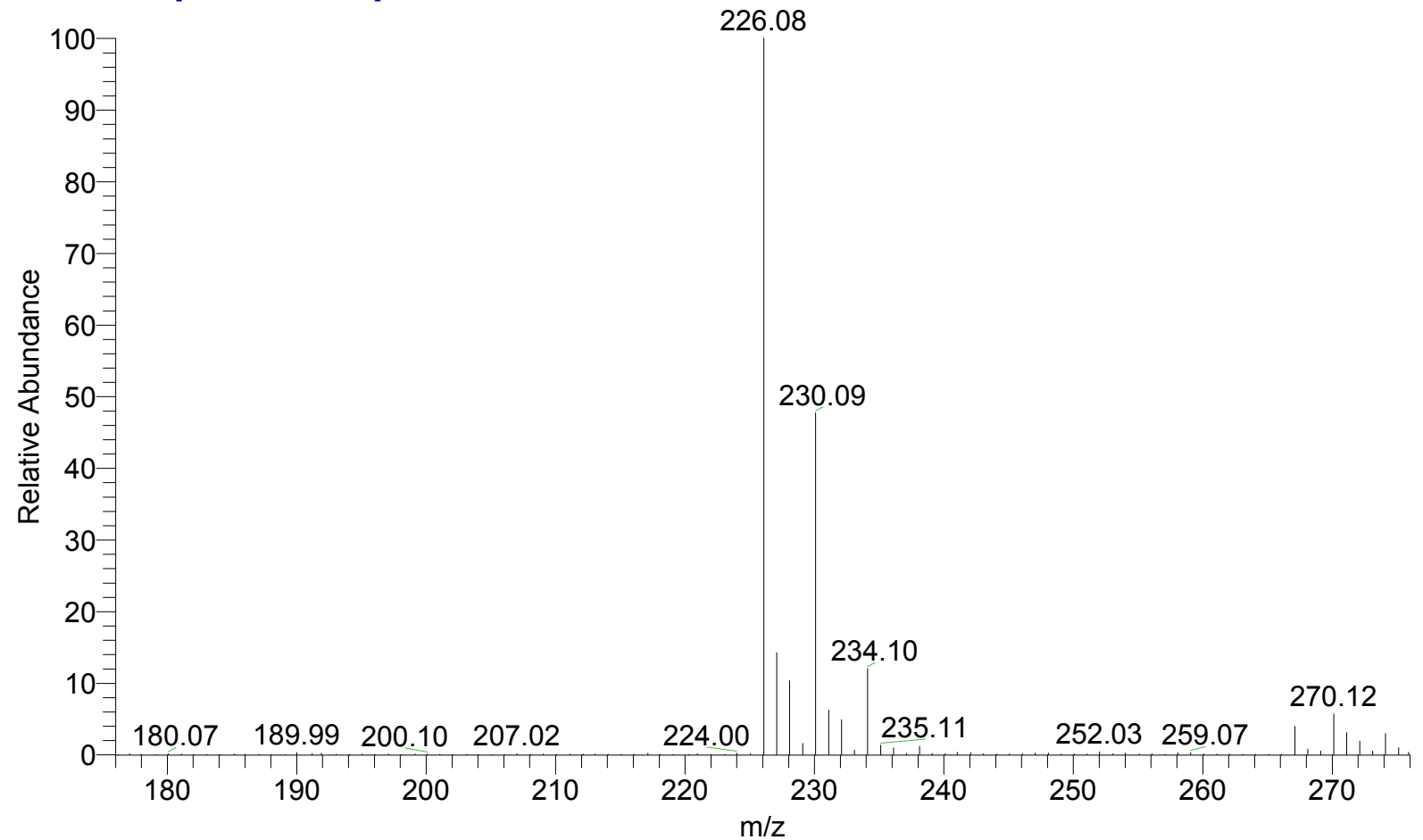
T: + c Q3MS [176.00-276.00]

m/z= 223.33-242.74

m/z	Intensity	Relative
224.00	166461.6	0.21
225.05	106734.6	0.13
226.08	79978061.7	100.00
227.09	11411663.9	14.27
228.09	8247958.0	10.31
229.08	1257162.2	1.57
230.09	38167154.0	47.72
231.09	4988177.1	6.24
232.09	3898687.0	4.87
233.09	531370.8	0.66
234.10	9604142.0	12.01
235.11	1072132.9	1.34
236.11	760111.1	0.95
237.09	131160.4	0.16
238.12	946631.4	1.18
239.10	152694.0	0.19
240.09	96578.9	0.12
241.03	262599.0	0.33
242.08	244035.5	0.31

MC2302-20100308-MW #1-199 RT: 0.00-1.99 AV: 199 NL: 8.00E7

T: + c Q3MS [176.00-276.00]



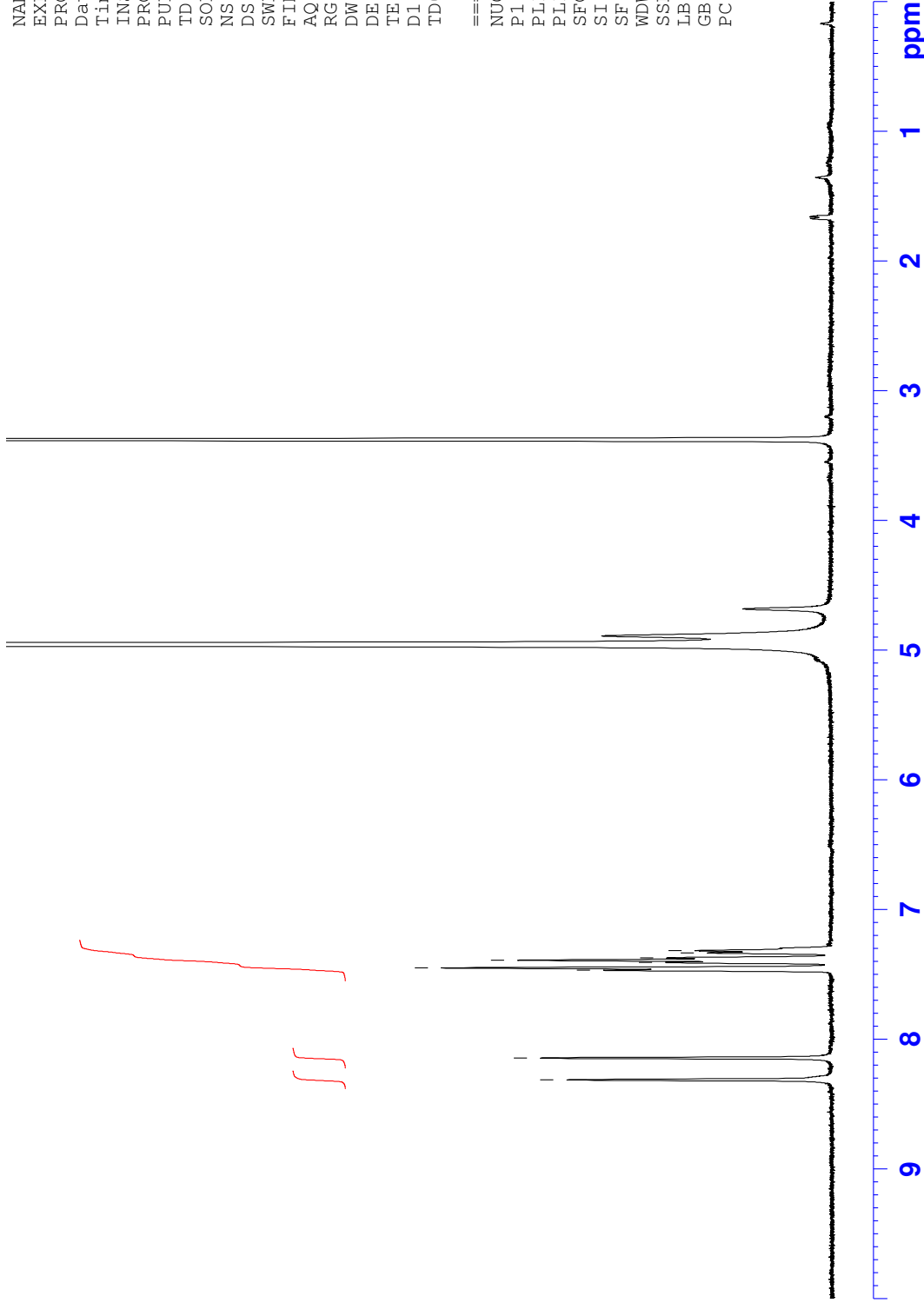
MC2302 1H NMR in MeOD
Batch 20100308-MW



8.313
8.145
7.468
7.450
7.408
7.391
7.373
7.335
7.317

NAME MC2302-20100308-MW
EXPNO 1
PROCNO 1
Date_ 20100312
Time 14.05
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 1000
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 294.8 K
D1 1.00000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 14.50 usec
PL1 -0.70 dB
PL1W 10.03411102 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1299812 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



1.00
1.00
5.05