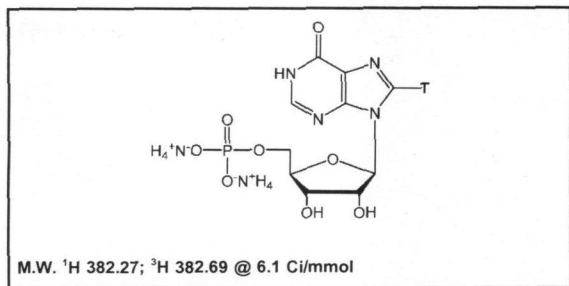




Product Data Sheet

MT-999

Inosine 5'-monophosphate, diammonium salt, [8-³H]-



Lot #: 194-145-0061-A-20080717-DG

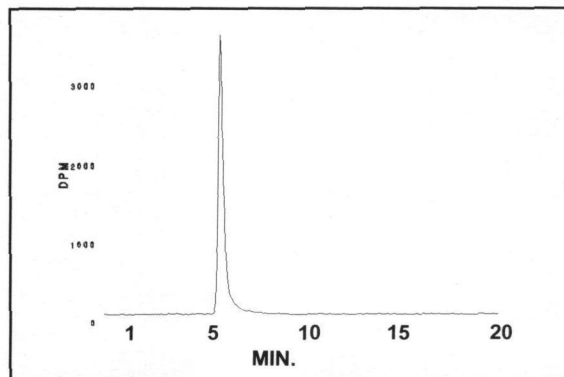
Specific Activity: 6.1 Ci/mmol

Concentration: 1.0 mCi/ml; 62.74 µg/ml

Packaged in: Ethanol : water (1 : 1) solution

Date of Analysis: August 10, 2010

Radiochemical Purity: 99.6%



HPLC ANALYSIS LOT 194-145-0061-A-20080717-DG
File Name: int20644 Date and Time: 8/10/2010 11:25:24 A
Unit 2 Radio

Peak #	Area %	Time	Area
1	0.16	3.76000	11.23136
2	99.66	5.98000	7137.73689
3	0.18	7.39000	12.94495
Totals	100.00		7161.91320

Stability and Storage Recommendation: The rate of decomposition is approximately 1%/month for the first six months after purification when stored 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.

MT-999

Inosine 5'-monophosphate, diammonium salt, [8-³H]-

Lot 194-145-0061-A-20080717-DG

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.

³H **Material** concentration was 0.1 mCi/ml.

Volume of standard alone injection was 2.0 µl.

Volume of ³H **Material** alone injection was 2.0 µl.

Co-injection solution consisted of 2.0 µl ³H **Material** + 2.0 µl standard.

Volume of co-injection was 4.0 µl.

Volume of blank injection was 2.0 µl.

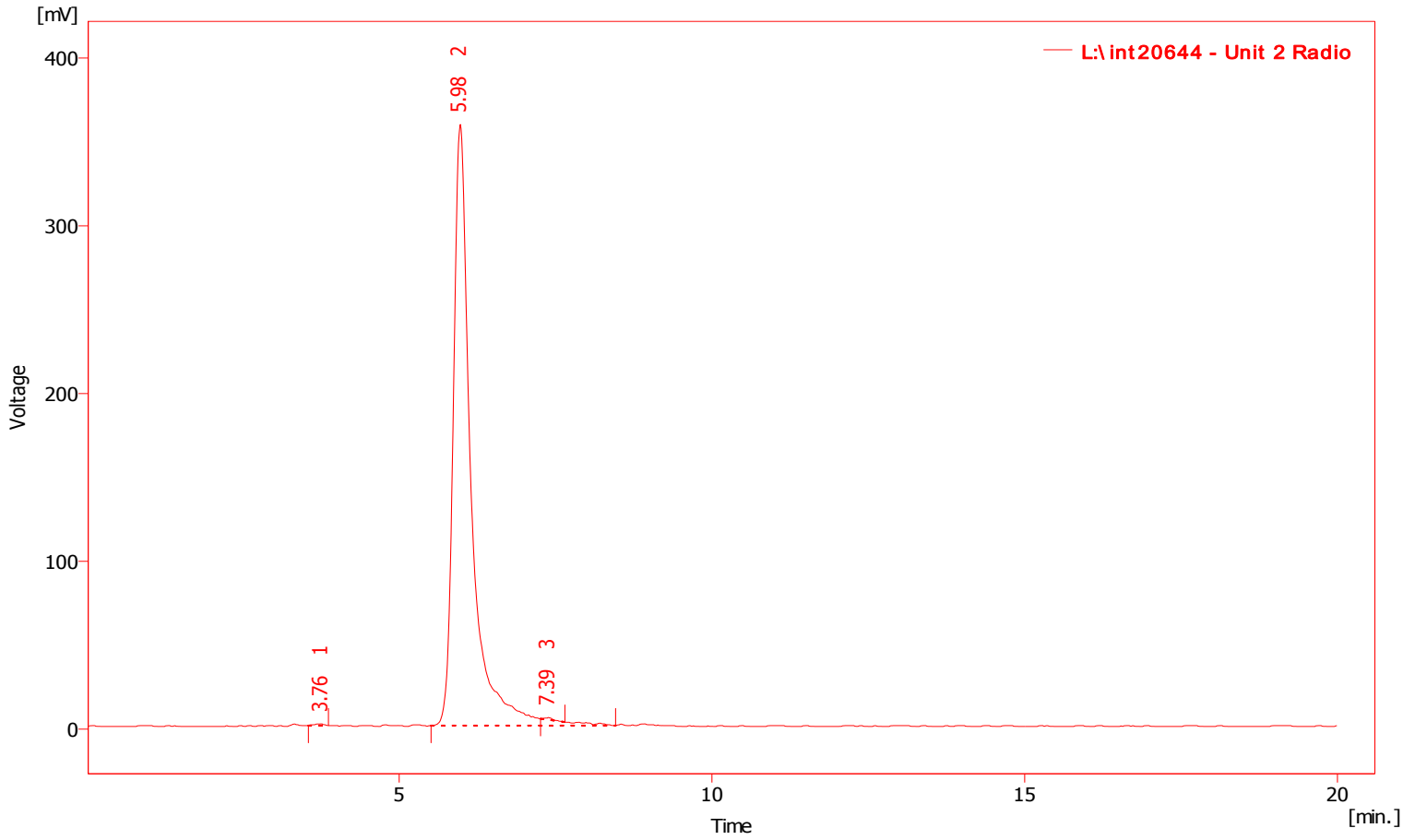
B) Mass spectrometry – Negative mode

C) NMR

MT-999
Inosine 5'-monophosphate, diammonium salt, [8-3H]-
Lot 194-145-0061-A-20080717-DG

Chromatogram Info:

File Name	: L:\int20644	File Created	: 3/24/2014 10:41:15 AM
Origin	: Acquired, Acquisition started 8/10/2010 11:05:25 AM	Acquired Date	: 8/10/2010 11:25:24 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 3/24/2014 10:58 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



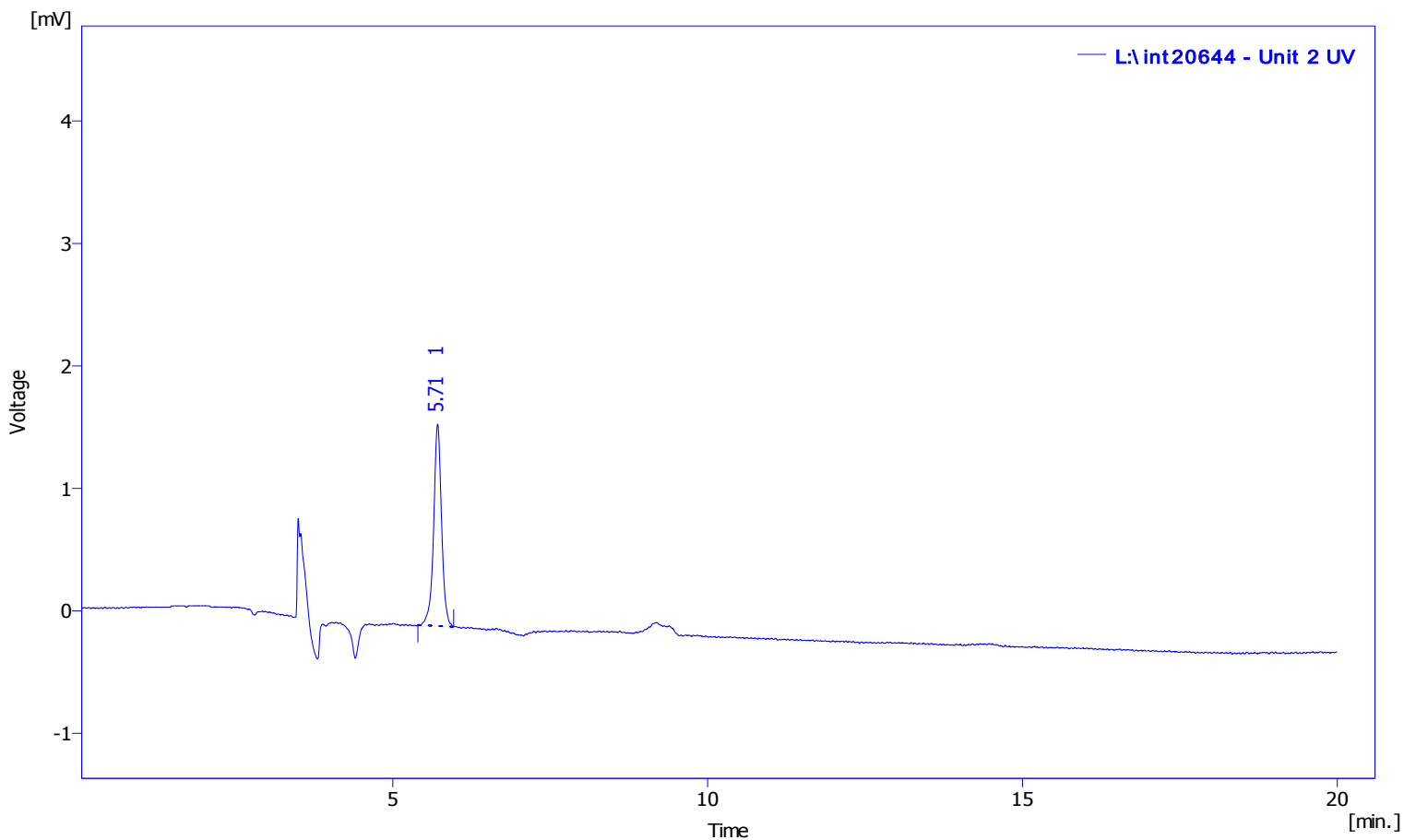
Result Table (Uncal - L:\int20644 - Unit 2 Radio)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/I [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		3.76	11.231	0.98	0.16	0.27	2417.36	48347.10	0.74		
2		5.98	7137.737	358.38	99.66	99.33	2930.66	58613.20	3.13		6.0
3		7.39	12.945	1.43	0.18	0.40	13446.71	268934.25	1.64		4.1
		Total	7161.913	360.80	100.00	100.00					

MT-999
Inosine 5'-monophosphate, diammonium salt, [8-3H]-
Lot 194-145-0061-A-20080717-DG

Chromatogram Info:

File Name	: L:\int20644	File Created	: 3/24/2014 10:41:15 AM
Origin	: Acquired, Acquisition started 8/10/2010 11:05:25 AM	Acquired Date	: 8/10/2010 11:25:24 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 3/24/2014 10:55 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 249nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



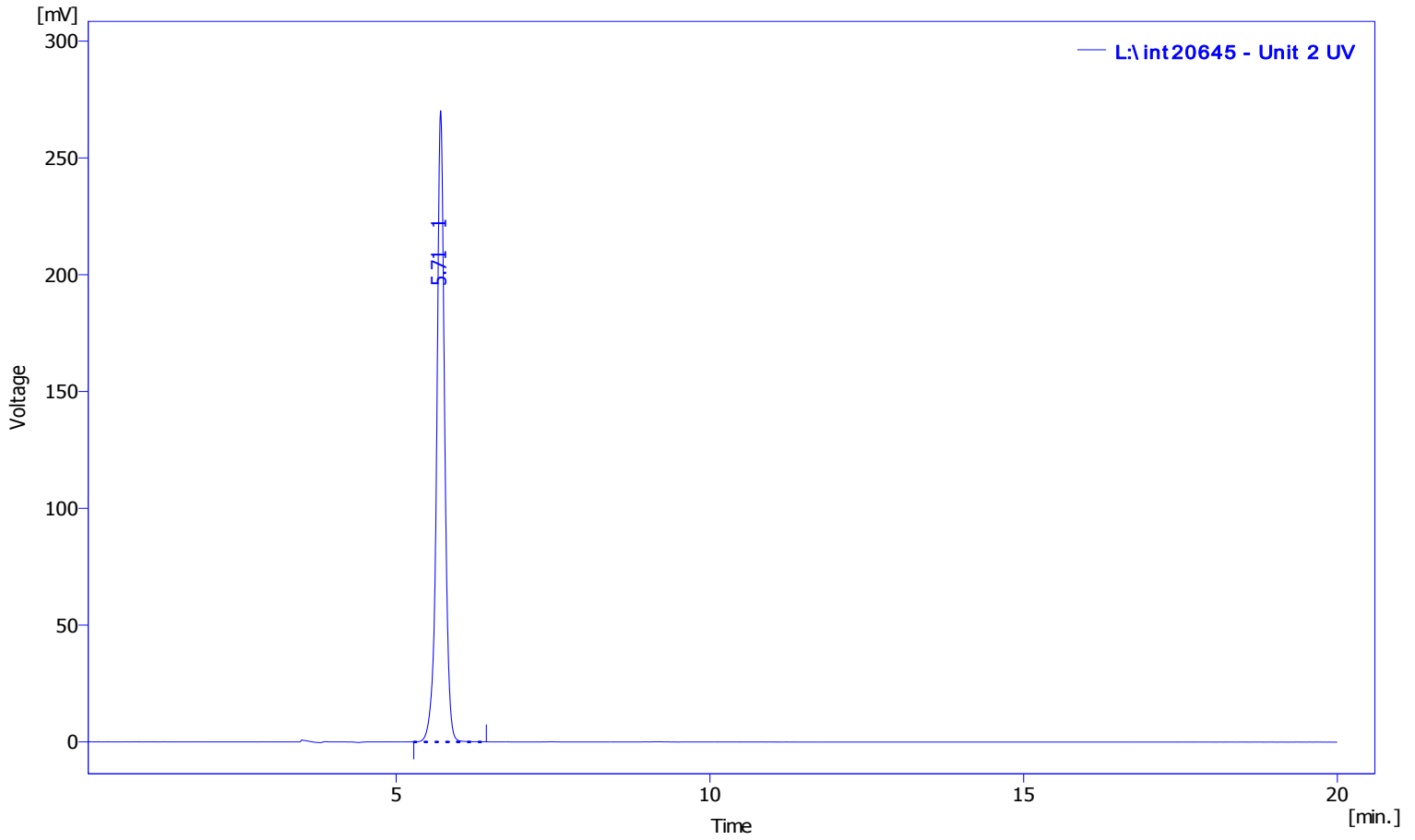
Result Table (Uncal - L:\int20644 - Unit 2 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/I [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		5.71	14.471	1.65	100.00	100.00	10700.45	214009.07	0.96		
		Total	14.471	1.65	100.00	100.00					

MT-999
Inosine 5'-monophosphate, diammonium salt, [8-3H]-
Lot 194-145-0061-A-20080717-DG

Chromatogram Info:

File Name	: L:\int20645	File Created	: 3/24/2014 10:41:15 AM
Origin	: Acquired, Acquisition started 8/10/2010 11:37:02 AM	Acquired Date	: 8/10/2010 11:57:01 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 3/24/2014 10:59 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 249nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



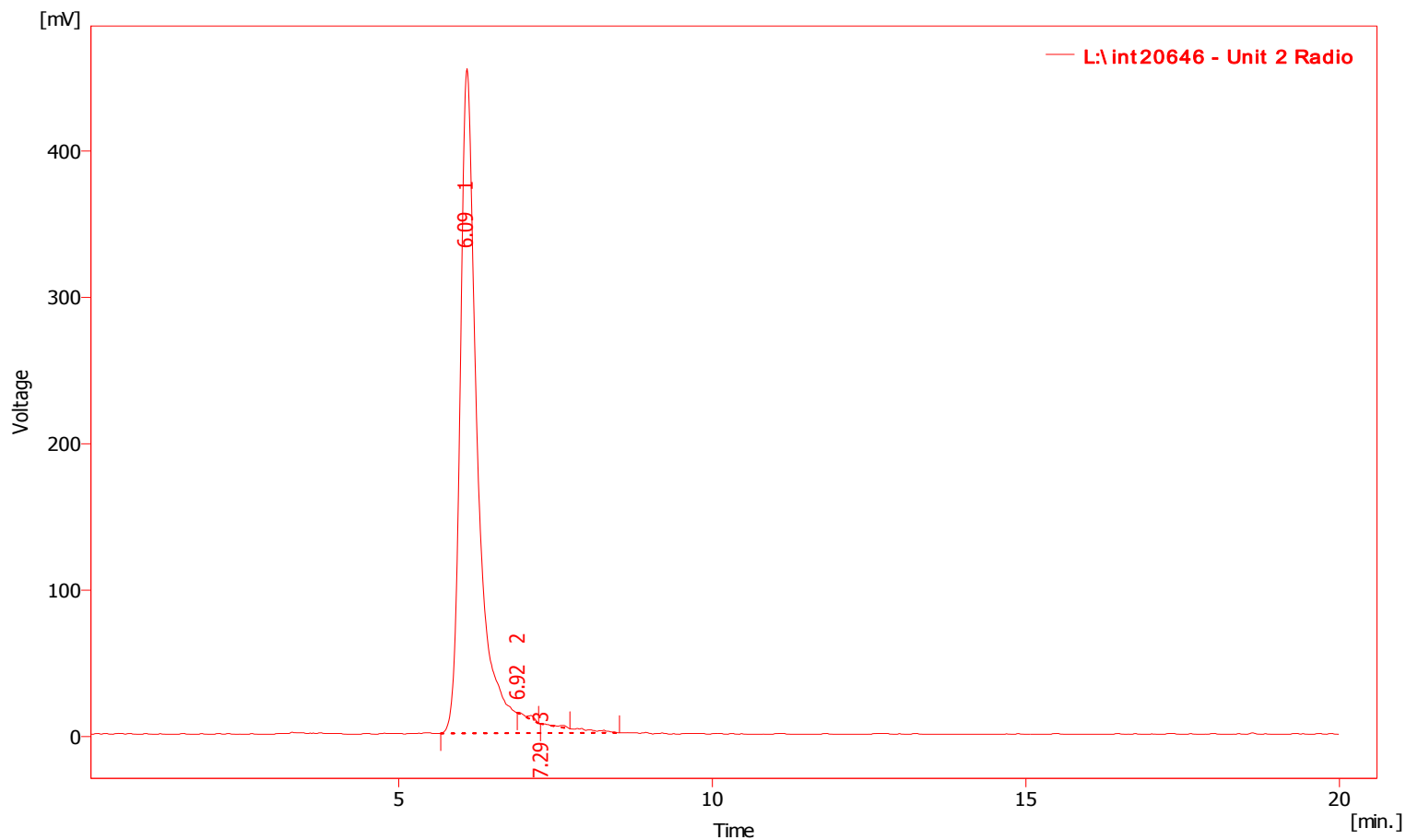
Result Table (Uncal - L:\int20645 - Unit 2 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/I [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		5.71	2373.477	270.20	100.00	100.00	10675.50	213509.92	0.98		
		Total	2373.477	270.20	100.00	100.00					

MT-999
Inosine 5'-monophosphate, diammonium salt, [8-3H]-
Lot 194-145-0061-A-20080717-DG

Chromatogram Info:

File Name	: L:\int20646	File Created	: 3/24/2014 10:41:14 AM
Origin	: Acquired, Acquisition started 8/10/2010 12:02:14 PM	Acquired Date	: 8/10/2010 12:22:14 PM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 3/24/2014 11:01 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



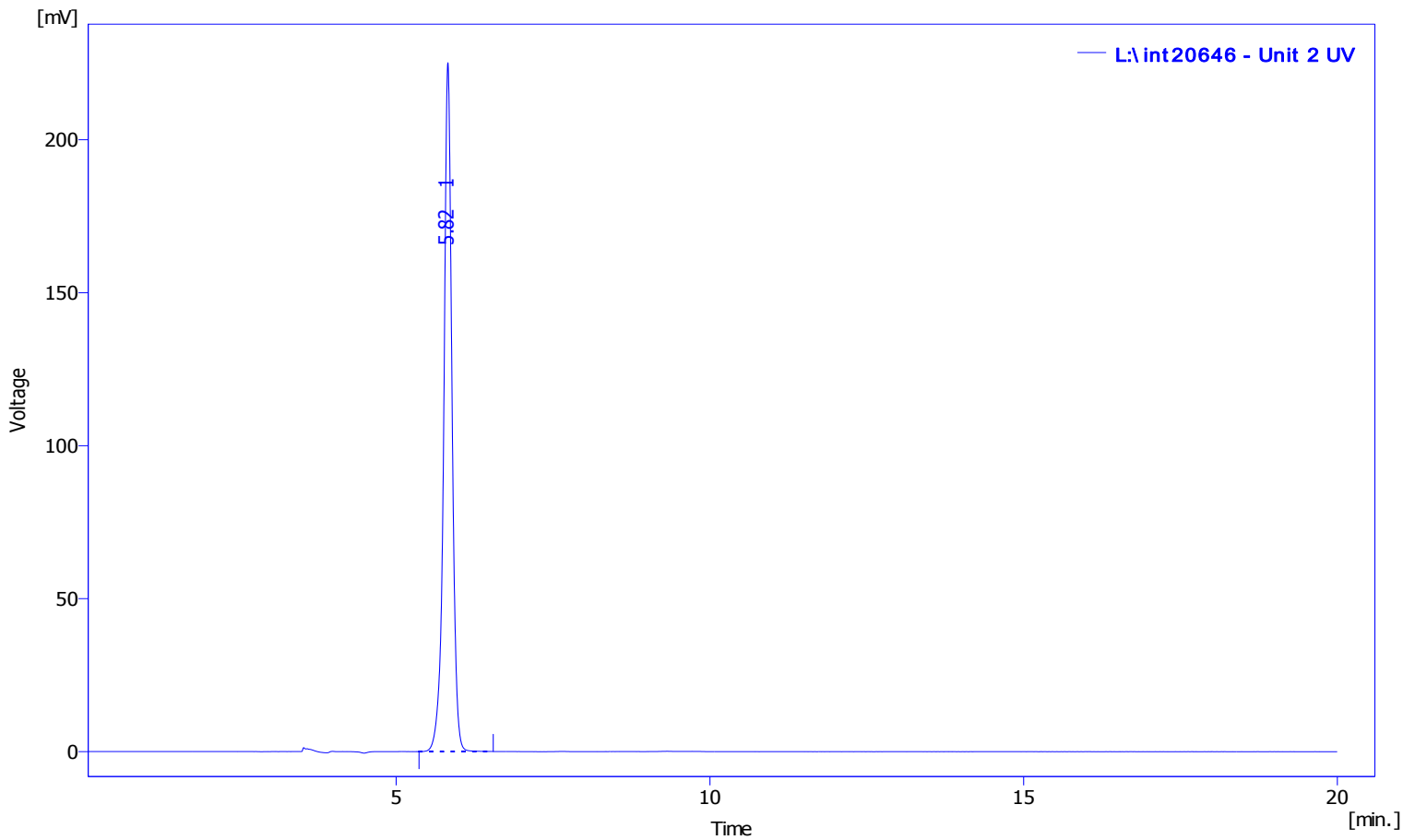
Result Table (Uncal - L:\int20646 - Unit 2 Radio)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/I [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		6.09	9077.509	453.99	99.51	99.76	2818.49	56369.84	3.39		
2		6.92	27.412	0.94	0.30	0.21	73691.85	1473836.98	5.67		3.0
3		7.29	17.123	0.16	0.19	0.04	36347.94	726958.80	7.83		2.9
		Total	9122.045	455.09	100.00	100.00					

MT-999
Inosine 5'-monophosphate, diammonium salt, [8-3H]-
Lot 194-145-0061-A-20080717-DG

Chromatogram Info:

File Name	: L:\int20646	File Created	: 3/24/2014 10:41:14 AM
Origin	: Acquired, Acquisition started 8/10/2010 12:02:14 PM	Acquired Date	: 8/10/2010 12:22:14 PM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 3/24/2014 11:00 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 249nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



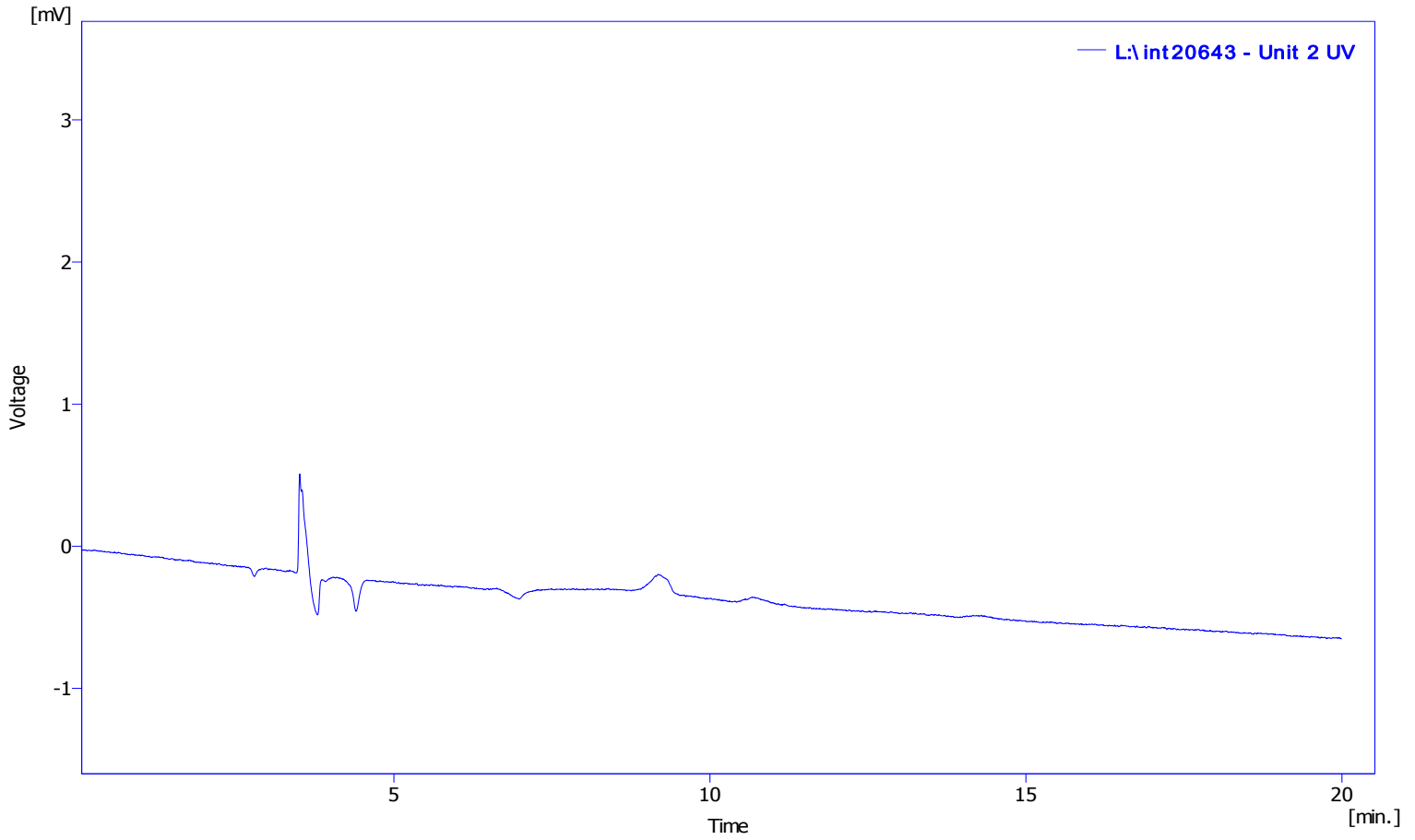
Result Table (Uncal - L:\int20646 - Unit 2 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	Efficiency [th.pl]	Eff/I [t.p./m]	Symmetry/Tailing [-]	Response Factor	Resolution [-]
1		5.82	2064.020	225.21	100.00	100.00	10058.38	201167.52	0.95		
		Total	2064.020	225.21	100.00	100.00					

MT-999
Inosine 5'-monophosphate, diammonium salt, [8-3H]-
Lot 194-145-0061-A-20080717-DG

Chromatogram Info:

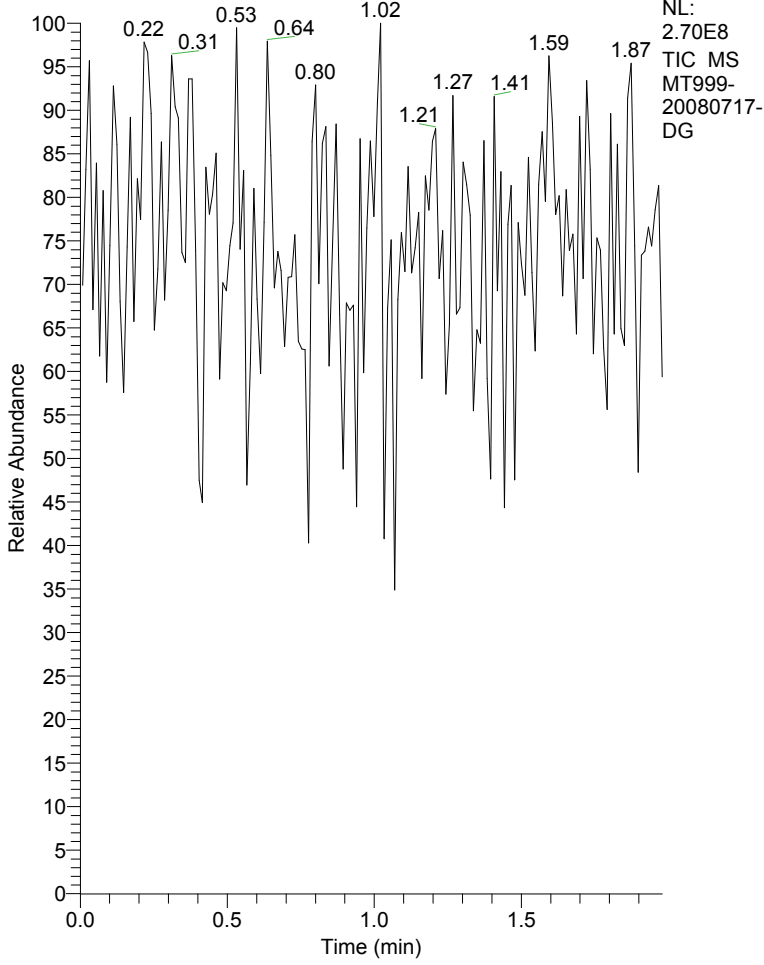
File Name	: L:\int20643	File Created	: 3/24/2014 10:41:15 AM
Origin	: Acquired, Acquisition started 8/10/2010 10:40:32 AM	Acquired Date	: 8/10/2010 11:00:32 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 3/24/2014 11:02 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 249nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int20643 - Unit 2 UV)

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

RT: 0.00 - 1.98



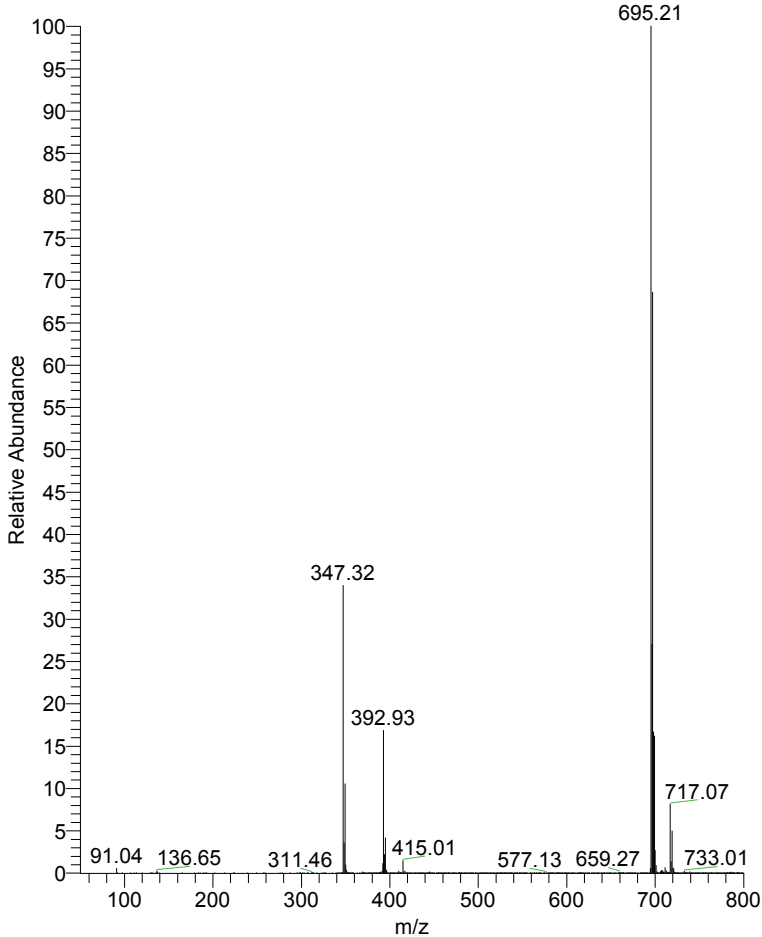
MT999-20080717-DG#1-170 RT: 0.01-1.98 AV:

T: - c NSI Full ms [50.00-800.00]

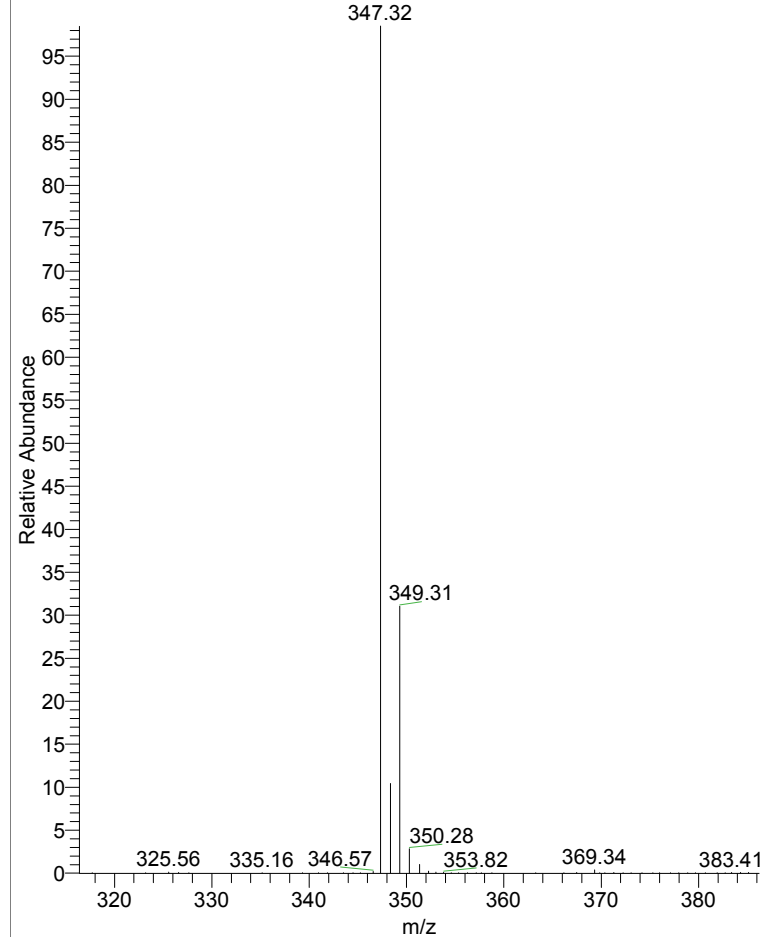
m/z = 342.39-360.20

m/z	Intensity	Relative
346.57	31000.6	0.15
347.32	20425407.8	100.00
348.35	2122354.2	10.39
349.31	6337373.3	31.03
350.28	571777.0	2.80
351.35	198514.8	0.97
352.27	43742.6	0.21
353.02	17767.7	0.09
353.82	10955.2	0.05
354.59	5621.3	0.03
355.37	2552.0	0.01
356.27	2921.1	0.01
357.17	1127.3	0.01
357.70	222.1	0.00
358.78	793.3	0.00

MT999-20080717-DG #1-170 RT: 0.01-1.98 AV: 170 NL: 6.02E7
T: - c NSI Full ms [50.00-800.00]



MT999-20080717-DG #1-170 RT: 0.01-1.98 AV: 170 NL: 2.04E7
T: - c NSI Full ms [50.00-800.00]



MT999 3H NMR in MeOD
Batch 20080717-DG



BRUKER

88.565
88.536
88.091

NAME MT999-20080717-DG
EXPNO 1
PROCNO 1
Date_ 20100810
Time_ 20.51
INSTRUM spect
PROBHD 5 mm DUX 3H-1H
PULPROG zg
TD 16384
SOLVENT MeOD
NS 5000
DS 2
SWH 6172.839 Hz
FIDRES 0.376760 Hz
AQ 1.3271540 sec
RG 46341
DW 81.000 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 3H
P1 10.00 usec
PL1 2.00 dB
SF01 320.1321857 MHz
SI 32768
SF 320.1305850 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

