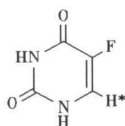




Product Data Sheet

MT-686W

5-Fluorouracil, [6-³H]- NSC-19893



M.W. ¹H 130.08; ³H 131.22 @ 16.4 Ci/mmol

Lot #: 194-177-0164-A-20100823-NT

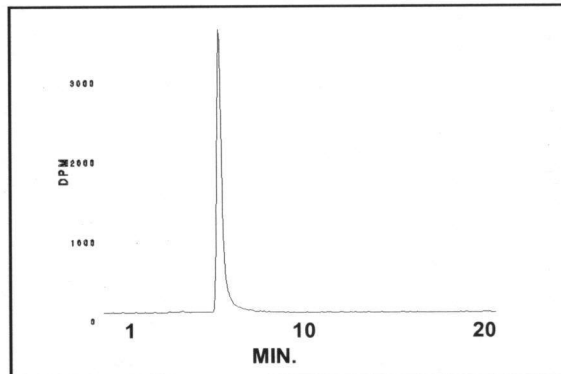
Specific Activity: 16.4 Ci/mmol

Concentration: 1.0 mCi/ml; 8.00 µg/ml

Packaged in: Sterile water solution

Date of Analysis: February 16, 2011

Radiochemical Purity: 99.4%



HPLC ANALYSIS LOT 194-177-0164-A-20100823-NT
File Name: int20948 Date and Time: 2/16/2011 9:54:16 AM
Unit 2 Radio

Peak #	Area %	Time	Area
1	0.24	4.08670	16.93032
2	99.45	5.91330	6873.49951
3	0.07	6.91330	5.12691
4	0.23	7.54000	15.74439
Totals	100.00		6911.30113

Stability and Storage Recommendation: The rate of decomposition is approximately 1%/month for the first 6 months after purification when stored at 0-5°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-686W

5-Fluorouracil, [6-³H]-

Lot 194-177-0164-A-20100823-NT

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

Concentrations and volumes:

Standard solution concentration was 2 mg/ml.

5-Fluorouracil, [6-³H]- concentration was 100 µCi/ml.

Volume of standard alone injection was 1 µl.

Volume of **5-Fluorouracil, [6-³H]-** alone injection was 1 µl.

Co-injection solution consisted of 1 µl **5-Fluorouracil, [6-³H]-** + 1 µl standard.

Volume of co-injection was 2 µl.

Volume of blank injection was 1 µl.

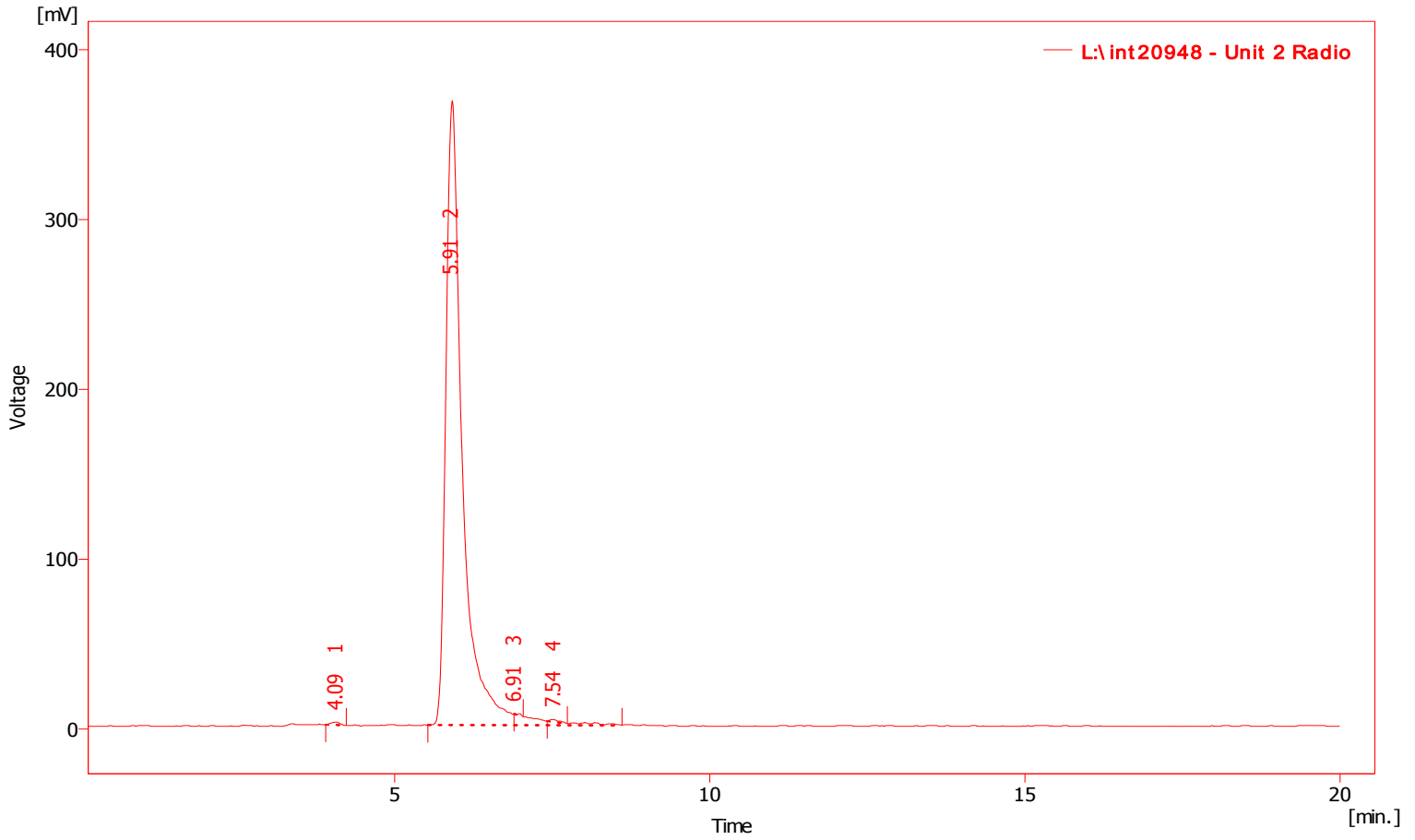
B) Mass spectrometry - Negative mode

C) NMR

MT-686W
5-Fluorouracil, [6-3H]-
Lot 194-177-0164-A-20100823-NT

Chromatogram Info:

File Name	: L:\int20948	File Created	: 3/5/2014 11:39:15 AM
Origin	: Acquired, Acquisition started 2/16/2011 9:34:16 AM	Acquired Date	: 2/16/2011 9:54:16 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 3/5/2014 11:53 AM
Created	: 8/8/2007 9:12 AM	Detection	: Radiochemical
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



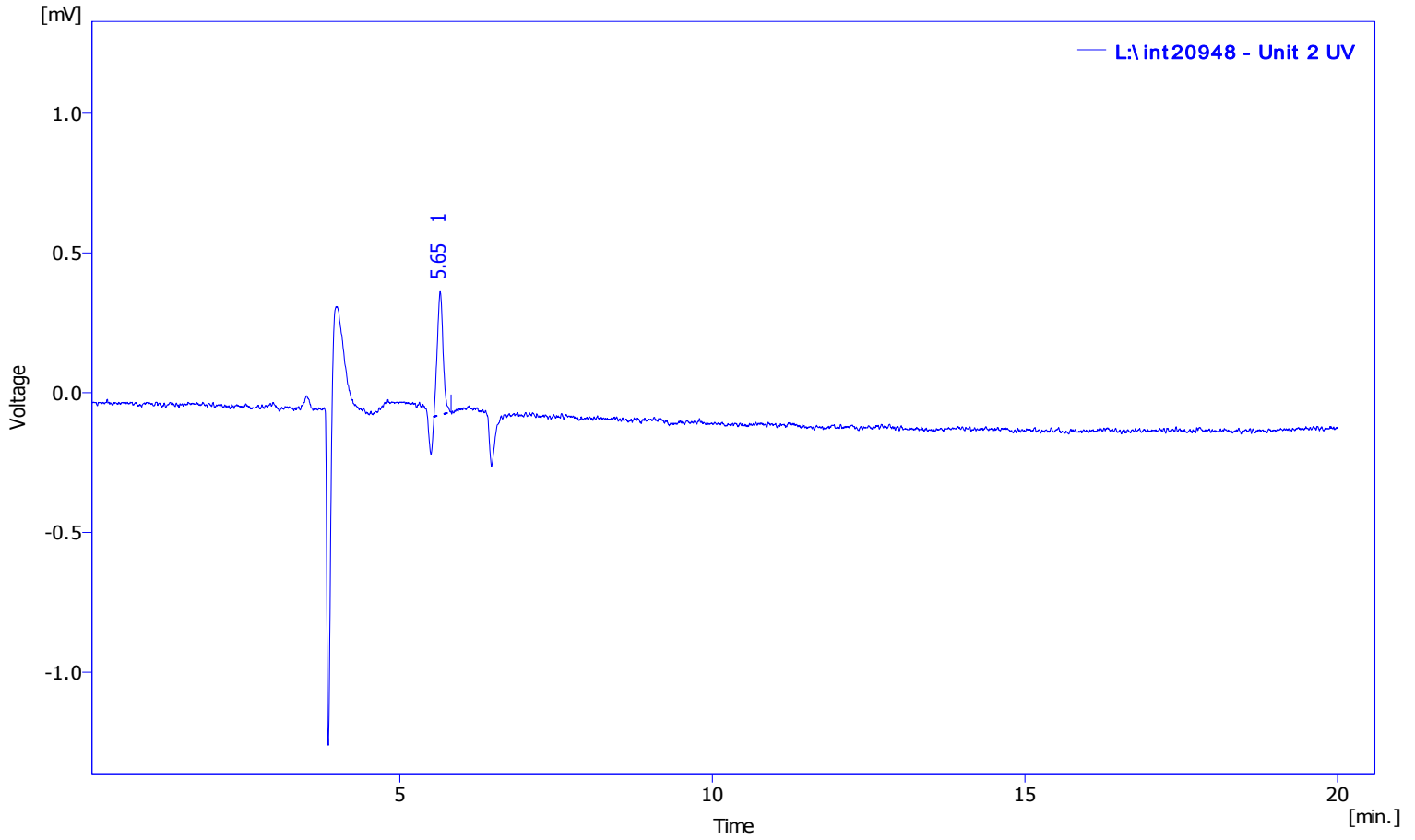
Result Table (Uncal - L:\int20948 - Unit 2 Radio)

	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		4.09	16.930	1.74	0.24	0.47	2655.31	53106.13	0.85		
2		5.91	6873.500	367.66	99.45	99.00	3018.49	60369.81	3.98		4.9
3		6.91	5.127	0.46	0.07	0.12	165487.34	3309746.81	3.50		4.0
4		7.54	15.744	1.50	0.23	0.40	14641.64	292832.72	1.25		4.0
		Total	6911.301	371.36	100.00	100.00					

MT-686W
5-Fluorouracil, [6-3H]-
Lot 194-177-0164-A-20100823-NT

Chromatogram Info:

File Name	: L:\int20948	File Created	: 3/5/2014 11:39:15 AM
Origin	: Acquired, Acquisition started 2/16/2011 9:34:16 AM	Acquired Date	: 2/16/2011 9:54:16 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 3/5/2014 11:52 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: 266nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



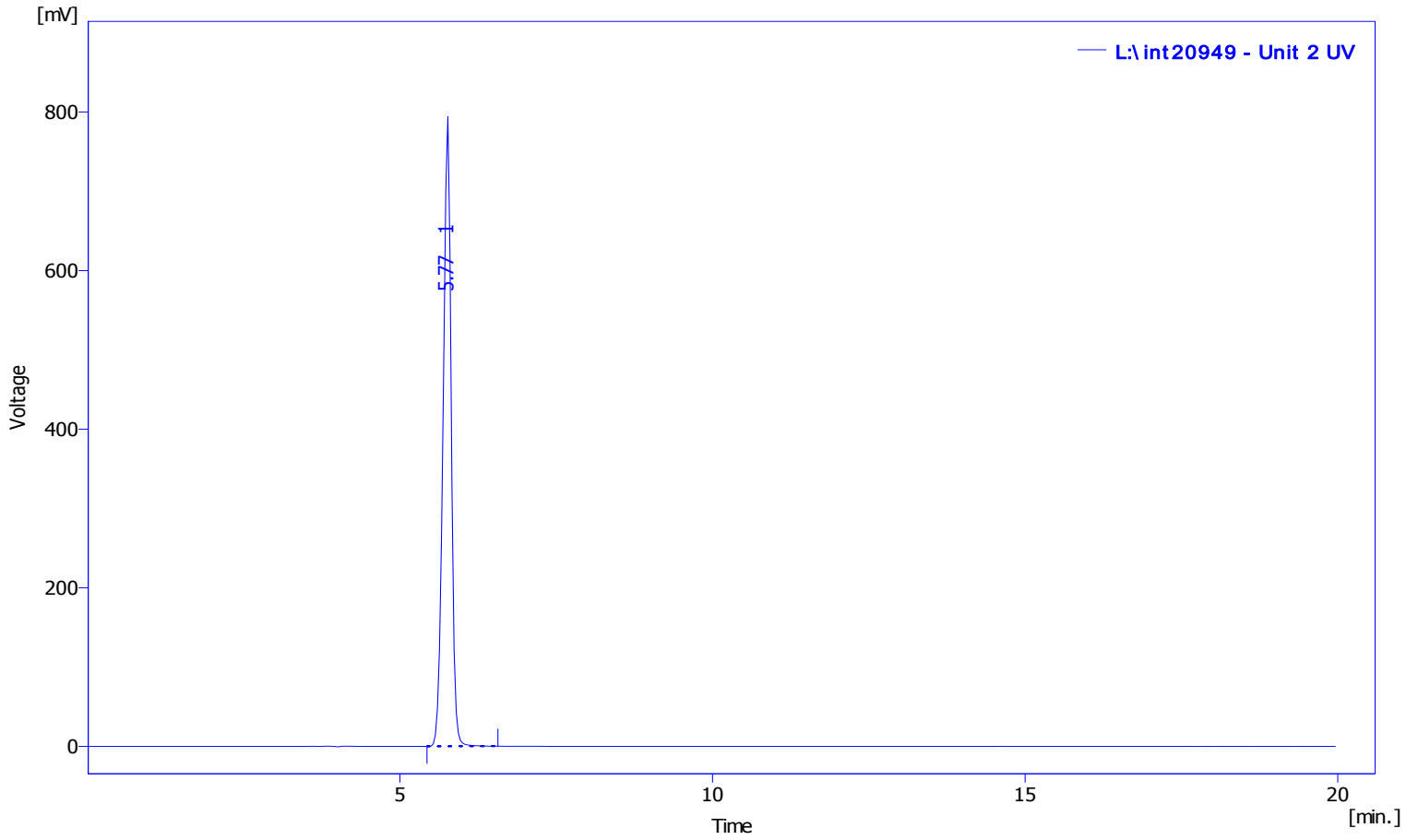
Result Table (Uncal - L:\int20948 - Unit 2 UV)

	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		5.65	2.843	0.44	100.00	100.00	16542.96	330859.18	1.16		
		Total	2.843	0.44	100.00	100.00					

MT-686W
5-Fluorouracil, [6-3H]-
Lot 194-177-0164-A-20100823-NT

Chromatogram Info:

File Name	: L:\int20949	File Created	: 3/5/2014 11:39:15 AM
Origin	: Acquired, Acquisition started 2/16/2011 10:35:29 AM	Acquired Date	: 2/16/2011 10:55:29 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 3/5/2014 11:54 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 266nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



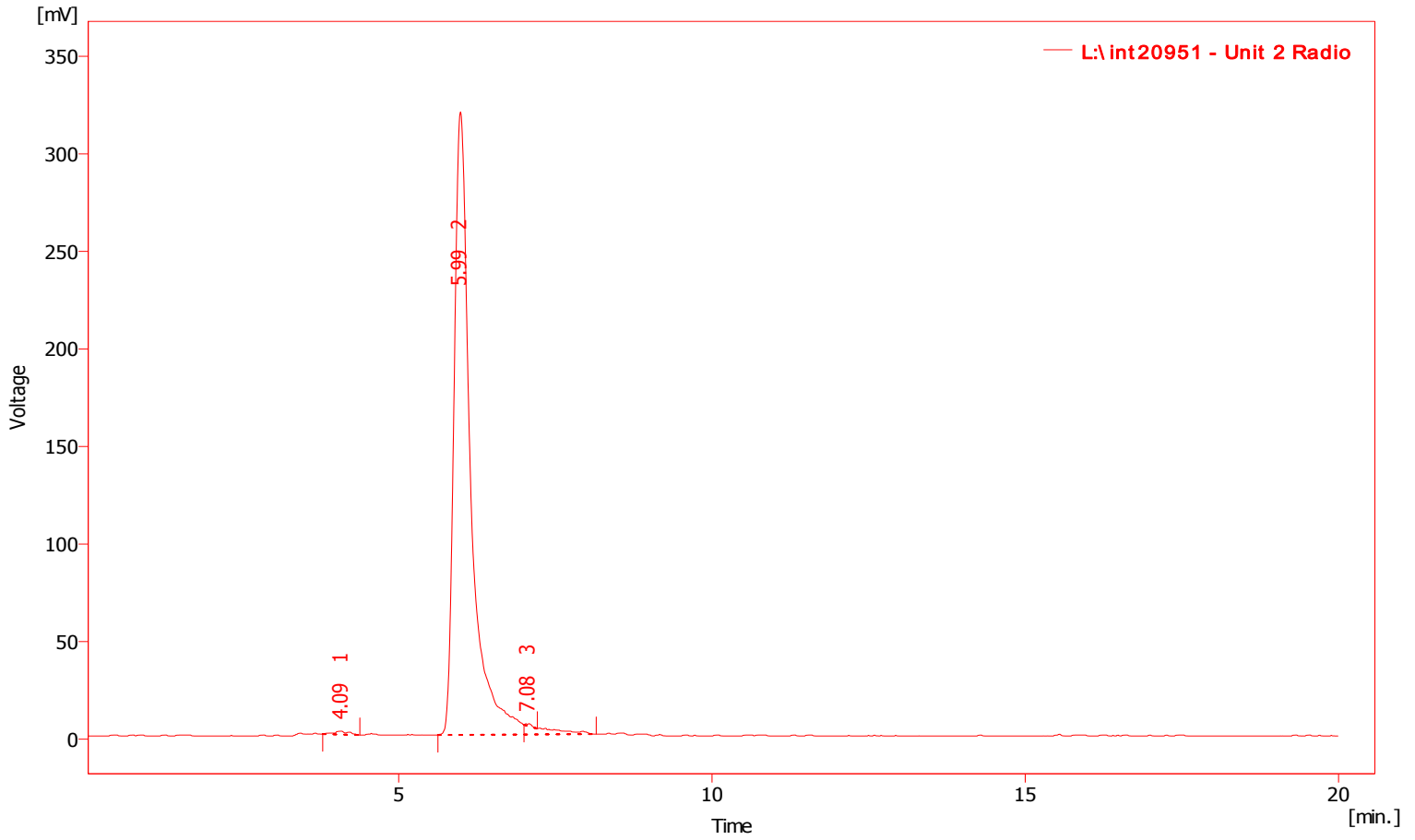
Result Table (Uncal - L:\int20949 - Unit 2 UV)

	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		5.77	7169.698	794.33	100.00	100.00	6632.27	132645.33	0.92		
		Total	7169.698	794.33	100.00	100.00					

MT-686W
5-Fluorouracil, [6-3H]-
Lot 194-177-0164-A-20100823-NT

Chromatogram Info:

File Name	: L:\int20951	File Created	: 3/5/2014 11:39:15 AM
Origin	: Acquired, Acquisition started 2/16/2011 11:43:46 AM	Acquired Date	: 2/16/2011 12:03:46 PM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 3/5/2014 11:57 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



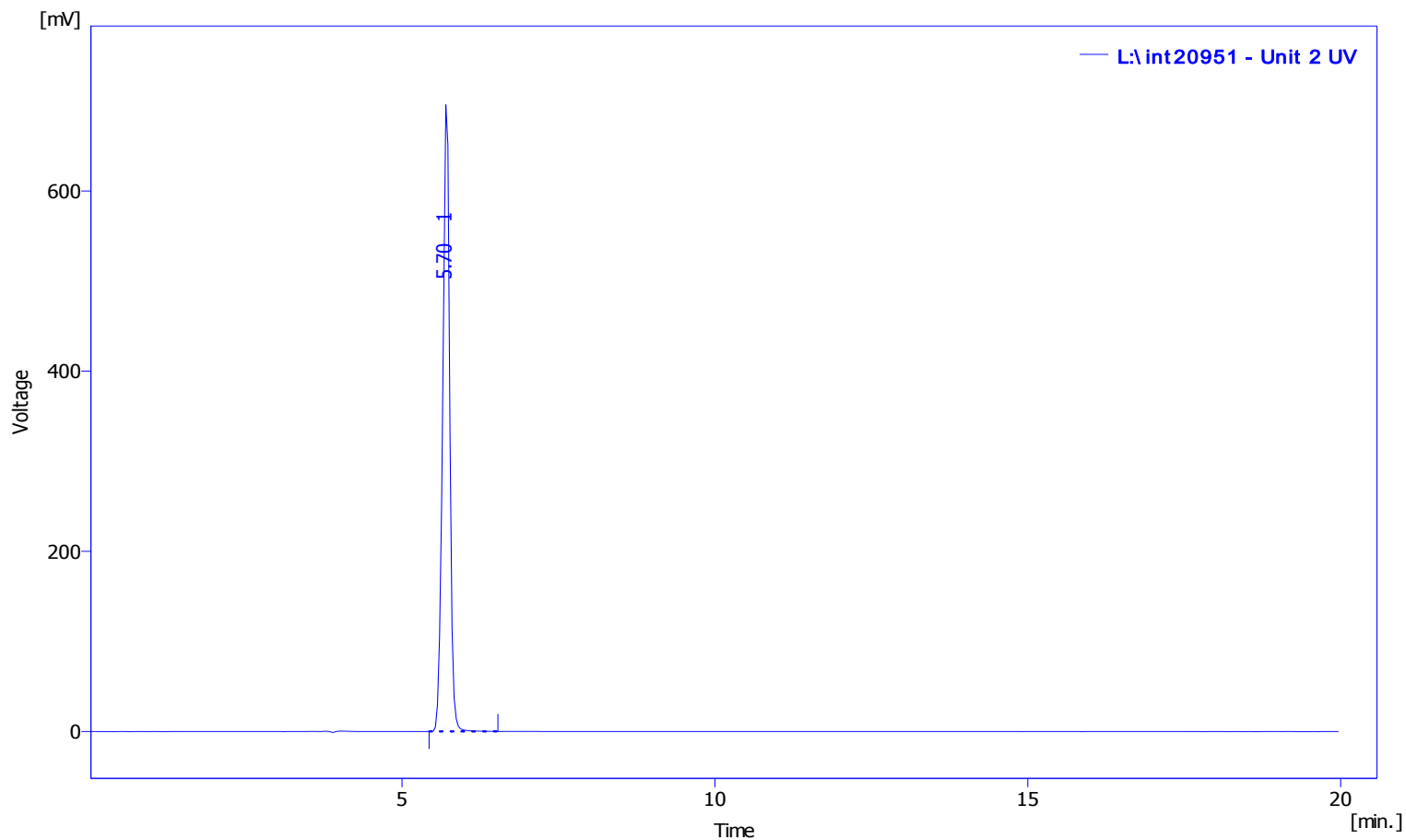
Result Table (Uncal - L:\int20951 - Unit 2 Radio)

	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		4.09	29.166	1.73	0.48	0.54	3625.97	72519.37	0.93		
2		5.99	6031.913	319.29	99.37	99.03	3093.82	61876.43	3.50		5.4
3		7.08	9.372	1.40	0.15	0.44	19284.74	385694.80	1.25		3.5
		Total	6070.451	322.43	100.00	100.00					

MT-686W
5-Fluorouracil, [6-3H]-
Lot 194-177-0164-A-20100823-NT

Chromatogram Info:

File Name	: L:\int20951	File Created	: 3/5/2014 11:39:15 AM
Origin	: Acquired, Acquisition started 2/16/2011 11:43:46 AM	Acquired Date	: 2/16/2011 12:03:46 PM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 3/5/2014 11:55 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 266nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



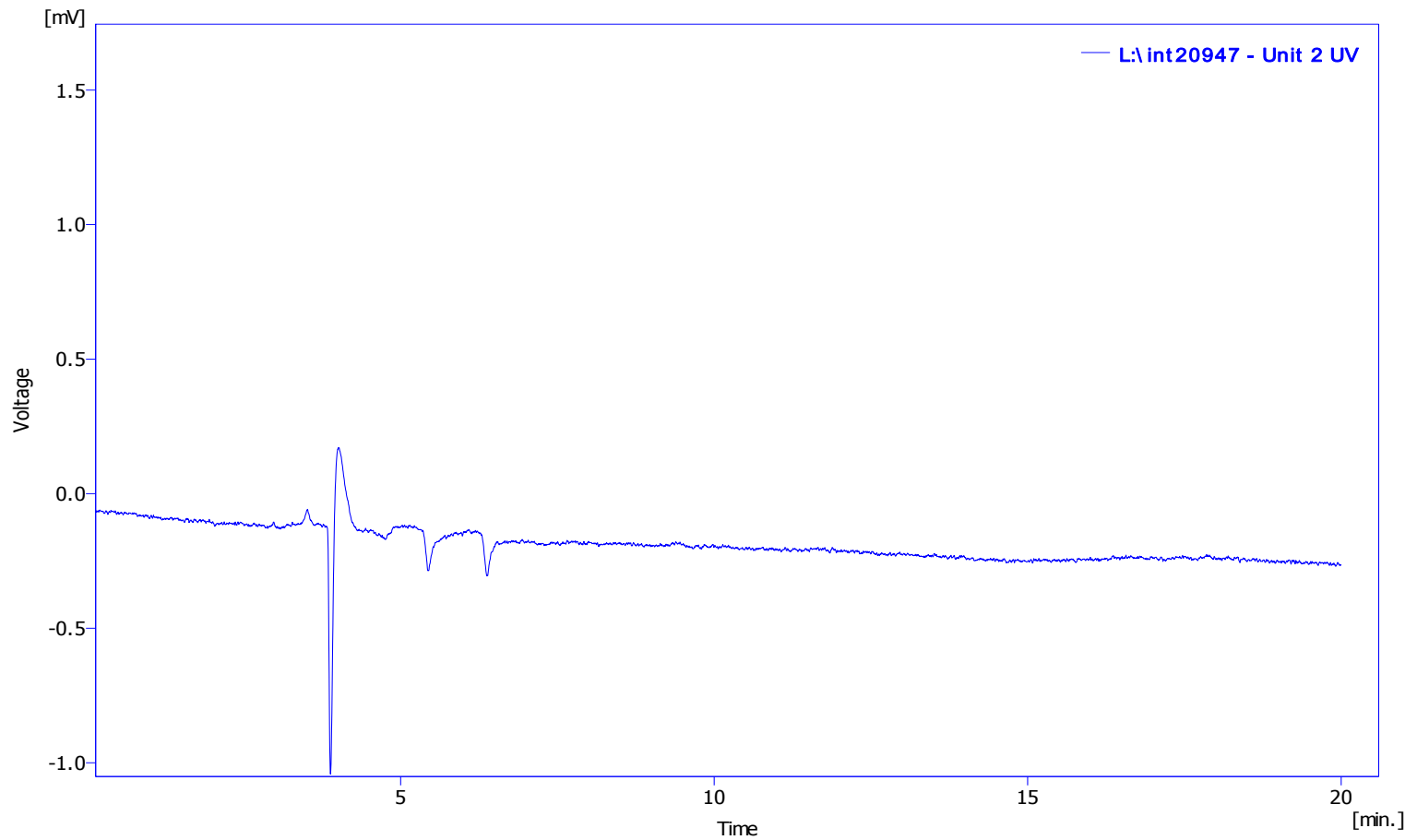
Result Table (Uncal - L:\int20951 - Unit 2 UV)

	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		5.70	5465.006	695.68	100.00	100.00	10124.70	202493.92	1.13		
		Total	5465.006	695.68	100.00	100.00					

MT-686W
5-Fluorouracil, [6-3H]-
Lot 194-177-0164-A-20100823-NT

Chromatogram Info:

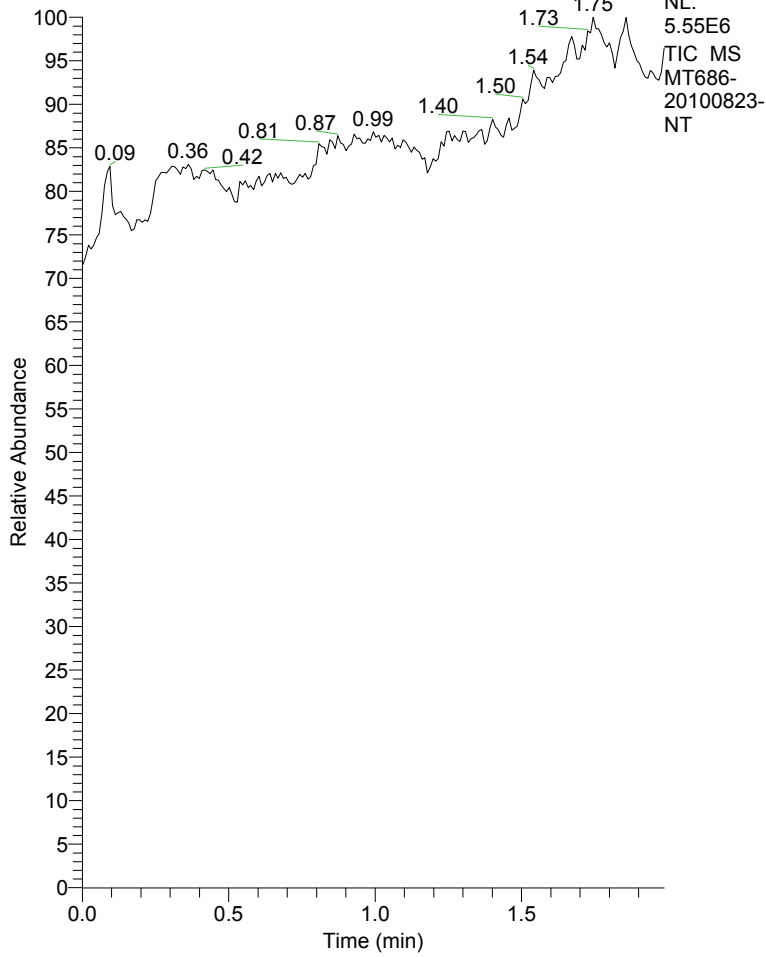
File Name	: L:\int20947	File Created	: 3/5/2014 11:39:15 AM
Origin	: Acquired, Acquisition started 2/16/2011 9:10:07 AM	Acquired Date	: 2/16/2011 9:30:06 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 3/5/2014 11:57 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 266nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int20947 - Unit 2 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



NL: 5.55E6
TIC MS
MT686-20100823-NT

MT686W-20100823-NT#1-215 RT: 0.00-1.99 AV:

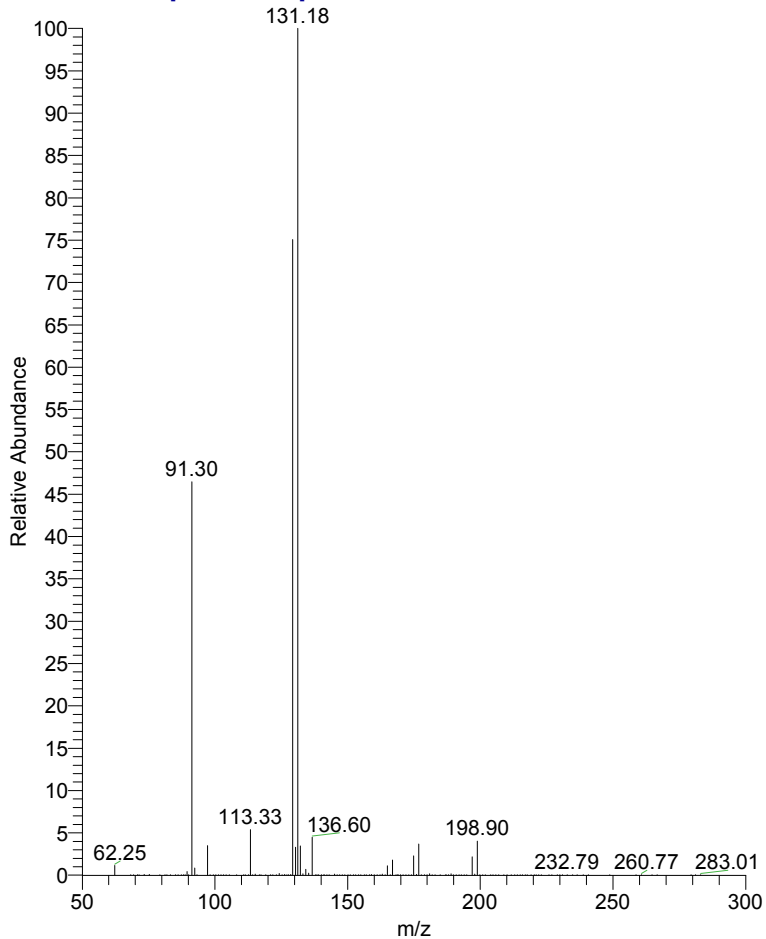
T: - c NSI Full ms [50.00-300.00]

m/z = 119.91-148.88

m/z	Intensity	Relative
127.68	74.3	0.00
128.58	1032.0	0.06
129.31	1365208.5	75.04
130.35	59530.4	3.27
131.18	1819427.3	100.00
132.20	62365.2	3.43
133.11	2242.2	0.12
134.22	11919.0	0.66
135.33	4095.0	0.23
136.60	80665.6	4.43
137.93	315.5	0.02
141.09	841.8	0.05
143.06	668.0	0.04
145.13	1932.8	0.11
147.05	625.8	0.03
147.97	45.7	0.00

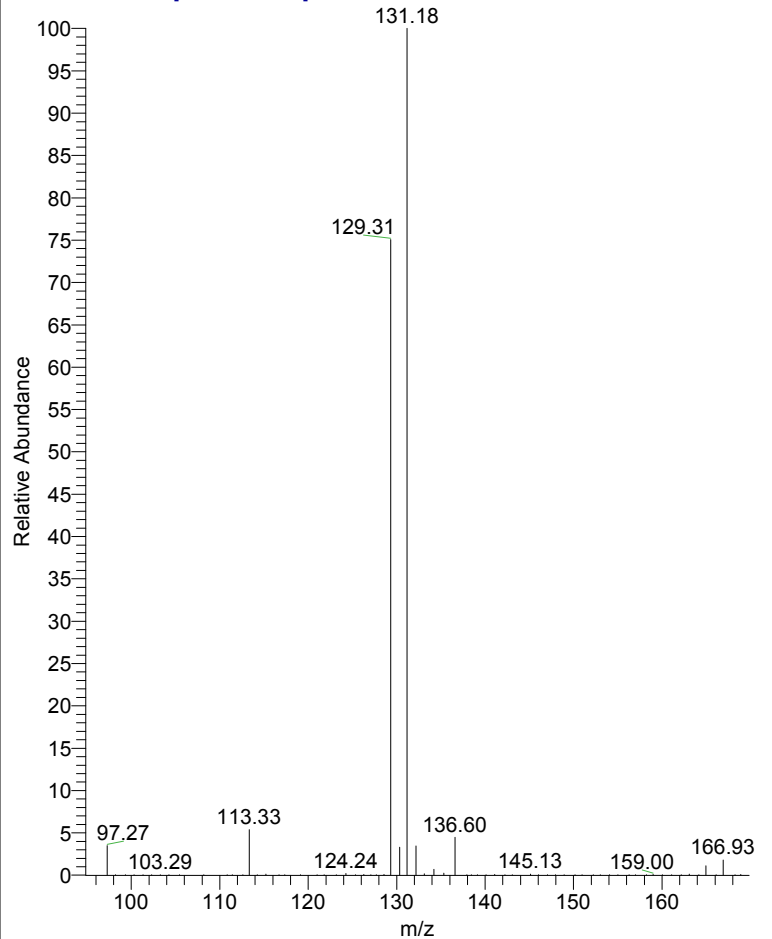
MT686W-20100823-N#1-215 RT: 0.00-1.99 AV: 215 NL: 1.82E6

T: - c NSI Full ms [50.00-300.00]



MT686W-20100823-N#1-215 RT: 0.00-1.99 AV: 215 NL: 1.82E6

T: - c NSI Full ms [50.00-300.00]



MT686W 3H NMR in D2O
Batch 20100823-NT



BRUKER

7.441

NAME MT686W-20100823-NT
EXPNO 1
PROCNO 1
Date_ 20101021
Time 16.24
INSTRUM spect
PROBHD 5 mm DUX 3H-1H
PULPROG zg
TD 16384
SOLVENT D2O
NS 2605
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

