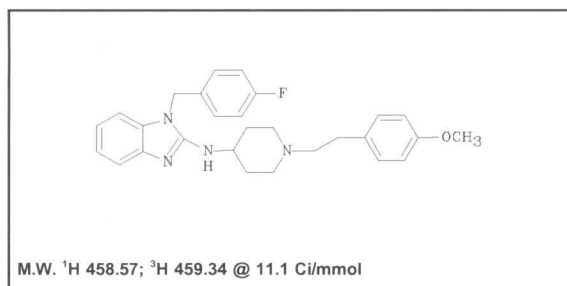




Product Data Sheet

MT-1771

Astemizole, [³H]-



Lot #: 211-141-0111-A-20051114-HP

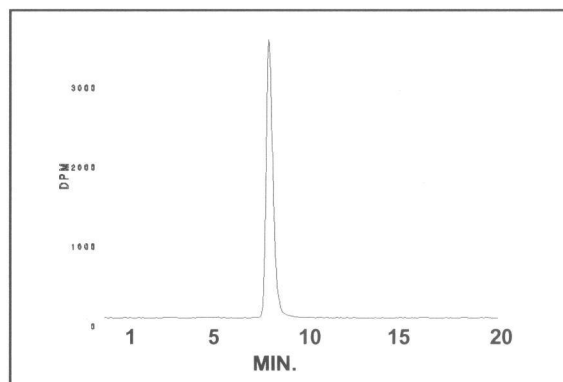
Specific Activity: 11.1 Ci/mmol

Concentration: 1.0 mCi/ml; 41.38 µg/ml

Packaged in: Ethanol solution

Date of Analysis: May 11, 2011

Radiochemical Purity: 99.9%



HPLC ANALYSIS LOT 211-141-0111-A-20051114-HP
File Name: int21127 Date and Time: 5/11/2011 9:10:01 AM
Unit 2 Radio

Peak #	Area %	Time	Area
1	0.07	5.83330	5.79190
2	99.93	8.38670	8596.82285

Totals 100.00 8602.61475

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.

MT-1771

Astemizole, [methyl-³H]-

Lot 211-141-0111-A-20051114-HP

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

Concentrations and volumes:

Standard solution concentration was 1.0 mg/ml.

Astemizole, [methyl-³H]- concentration was 0.1 mCi/ml.

Volume of standard alone injection was 1.0 µl.

Volume of **Astemizole, [methyl-³H]-** alone injection was 1.0 µl.

Co-injection solution consisted of 2.0 µl **Astemizole, [methyl-³H]-** + 2.0 µl standard.

Volume of co-injection was 4.0 µl.

Volume of blank injection was 1.0 µl.

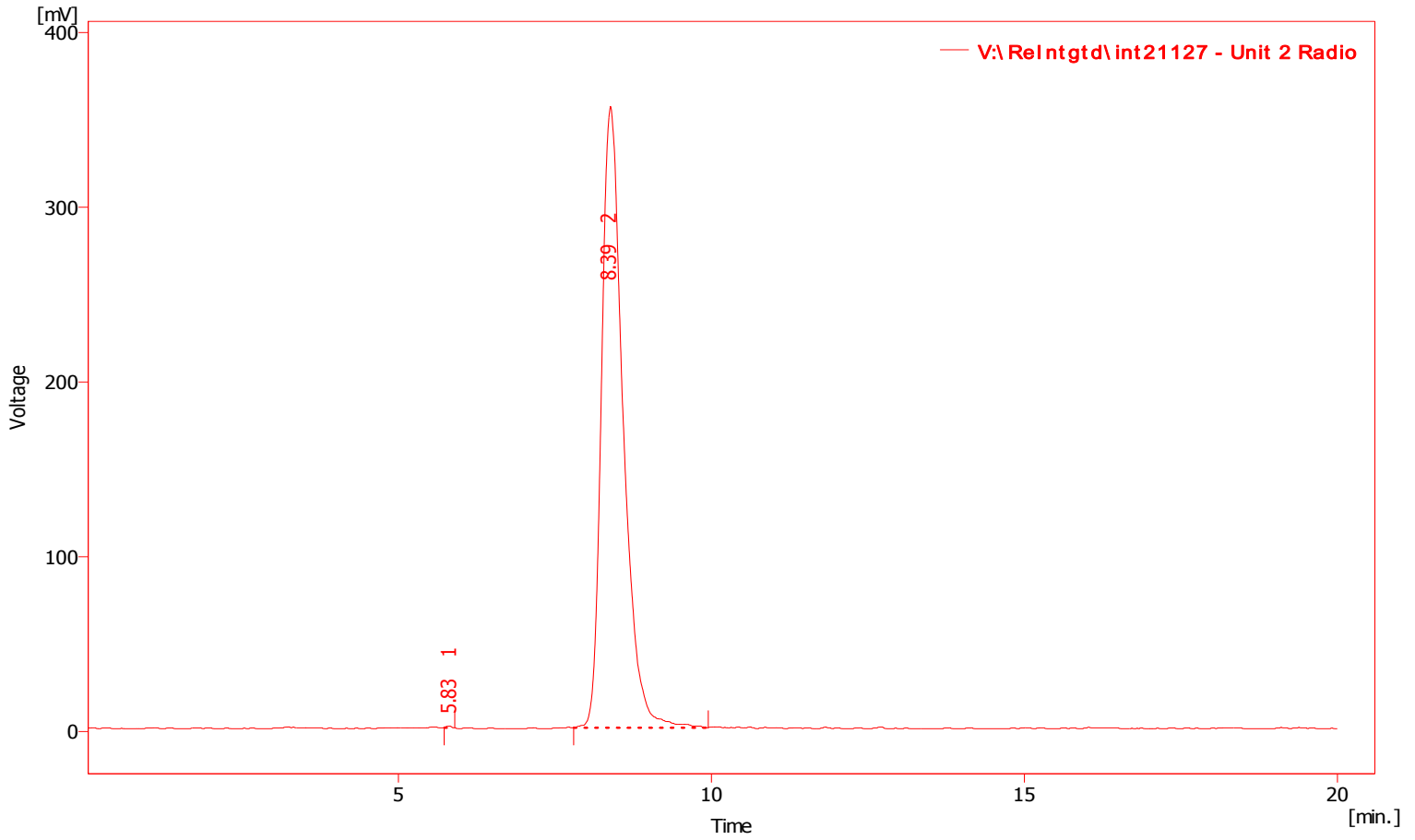
B) Mass spectrometry – Positive mode

C) NMR

MT-1771
Astemizole, [methyl-3H]-
Lot 211-141-0111-A-20051114-HP

Chromatogram Info:

File Name	: V:\ReIntgtd\int21127	File Created	: 4/2/2014 11:56:54 AM
Origin	: Acquired, Acquisition started 5/11/2011 8:50:01 AM	Acquired Date	: 5/11/2011 9:10:01 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 4/2/2014 12:05 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



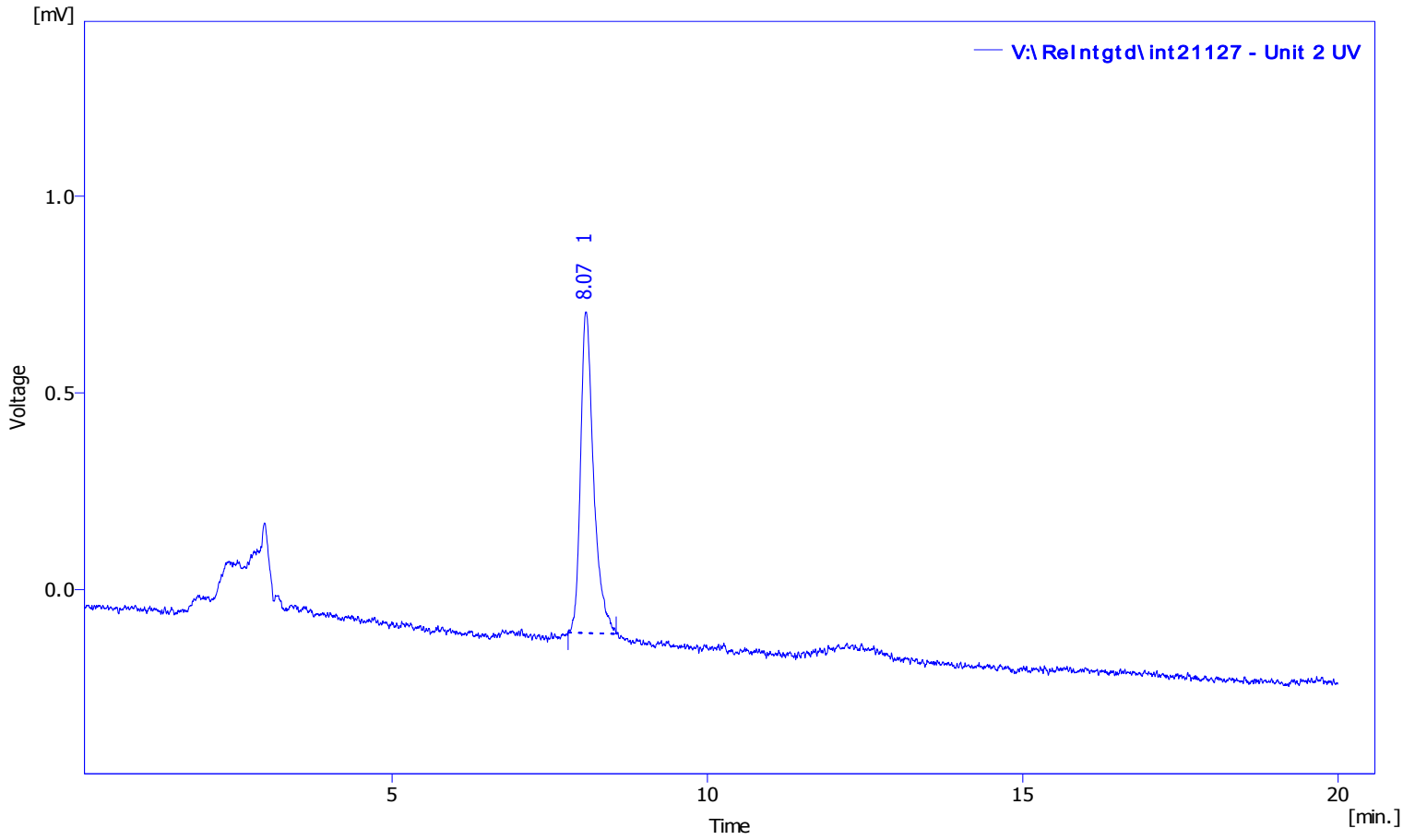
Result Table (Uncal - V:\ReIntgtd\int21127 - Unit 2 Radio)

	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		5.83	5.792	0.98	0.07	0.27	17654.79	353095.73	0.68		
2		8.39	8596.823	355.61	99.93	99.73	3006.65	60133.09	1.41		6.5
		Total	8602.615	356.59	100.00	100.00					

MT-1771
Astemizole, [methyl-3H]-
Lot 211-141-0111-A-20051114-HP

Chromatogram Info:

File Name	: V:\ReIntgtd\int21127	File Created	: 4/2/2014 11:56:54 AM
Origin	: Acquired, Acquisition started 5/11/2011 8:50:01 AM	Acquired Date	: 5/11/2011 9:10:01 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 4/2/2014 12:02 PM
Created	: 8/8/2007 9:12 AM	Detection	: UV 286nm
Column	:	Temperature	:
Mobile Phase	:	Pressure	:
Flow Rate	:	Note	:



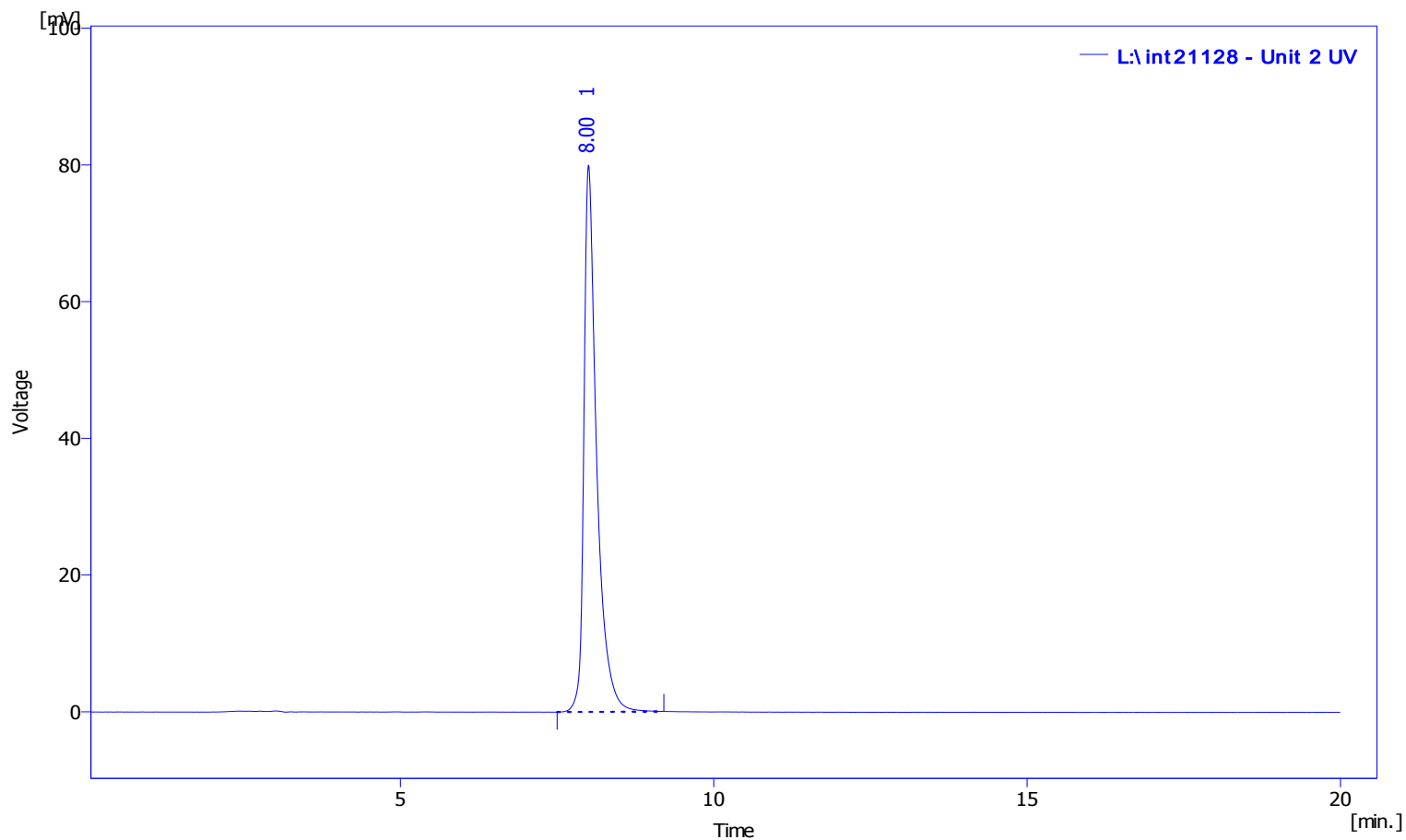
Result Table (Uncal - V:\ReIntgtd\int21127 - Unit 2 UV)

	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		8.07	11.767	0.82	100.00	100.00	8181.22	163624.47	1.51		
		Total	11.767	0.82	100.00	100.00					

MT-1771
Astemizole, [methyl-3H]-
Lot 211-141-0111-A-20051114-HP

Chromatogram Info:

File Name	: L:\int21128	File Created	: 4/2/2014 11:46:11 AM
Origin	: Acquired, Acquisition started 5/11/2011 9:28:15 AM	Acquired Date	: 5/11/2011 9:48:14 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 4/2/2014 12:05 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 286nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



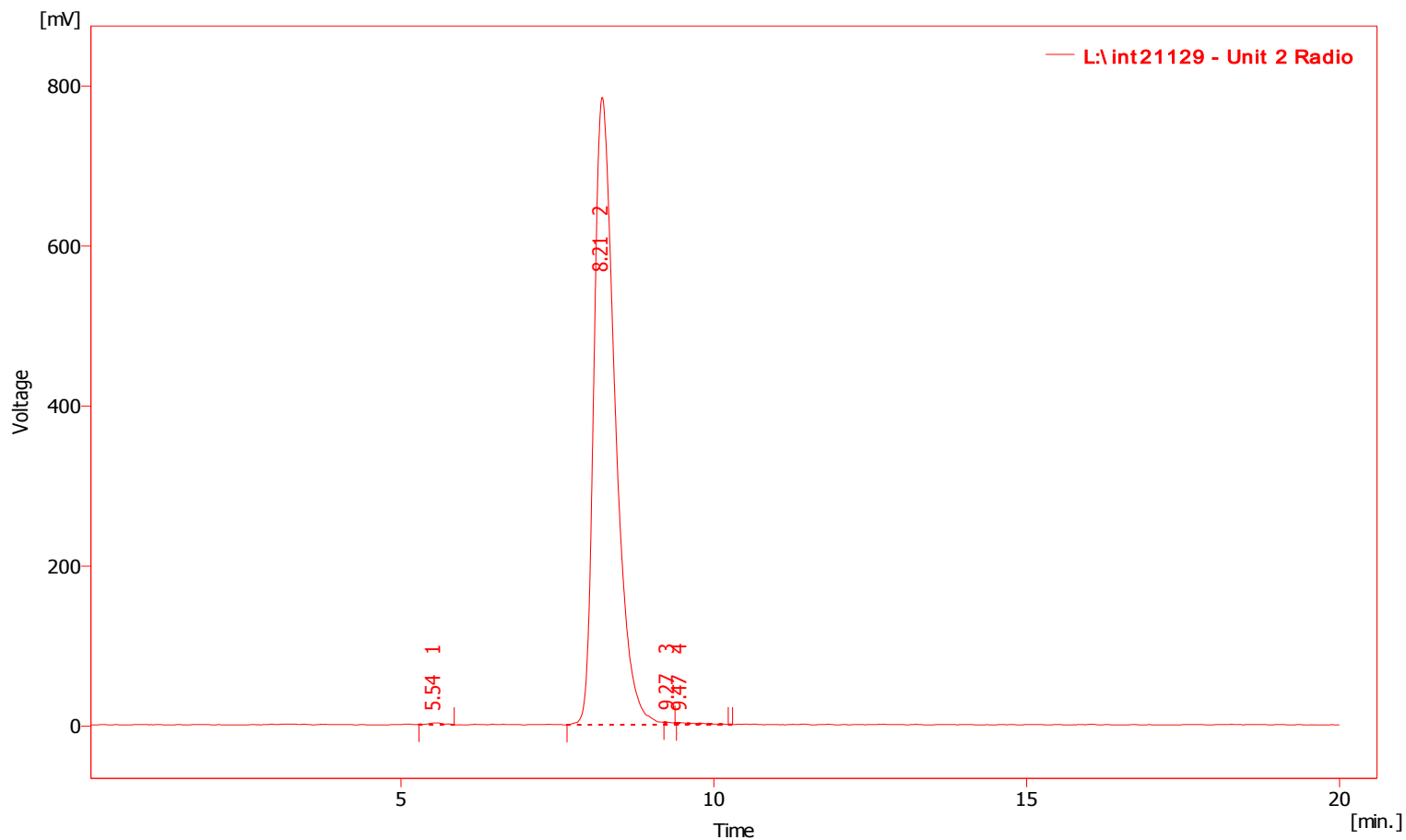
Result Table (Uncal - L:\int21128 - Unit 2 UV)

	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		8.00	1134.831	79.97	100.00	100.00	8864.00	177280.00	1.65		
		Total	1134.831	79.97	100.00	100.00					

MT-1771
Astemizole, [methyl-3H]-
Lot 211-141-0111-A-20051114-HP

Chromatogram Info:

File Name	: L:\int21129	File Created	: 4/2/2014 11:46:11 AM
Origin	: Acquired, Acquisition started 5/11/2011 9:51:56 AM	Acquired Date	: 5/11/2011 10:11:55 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 4/2/2014 12:08 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



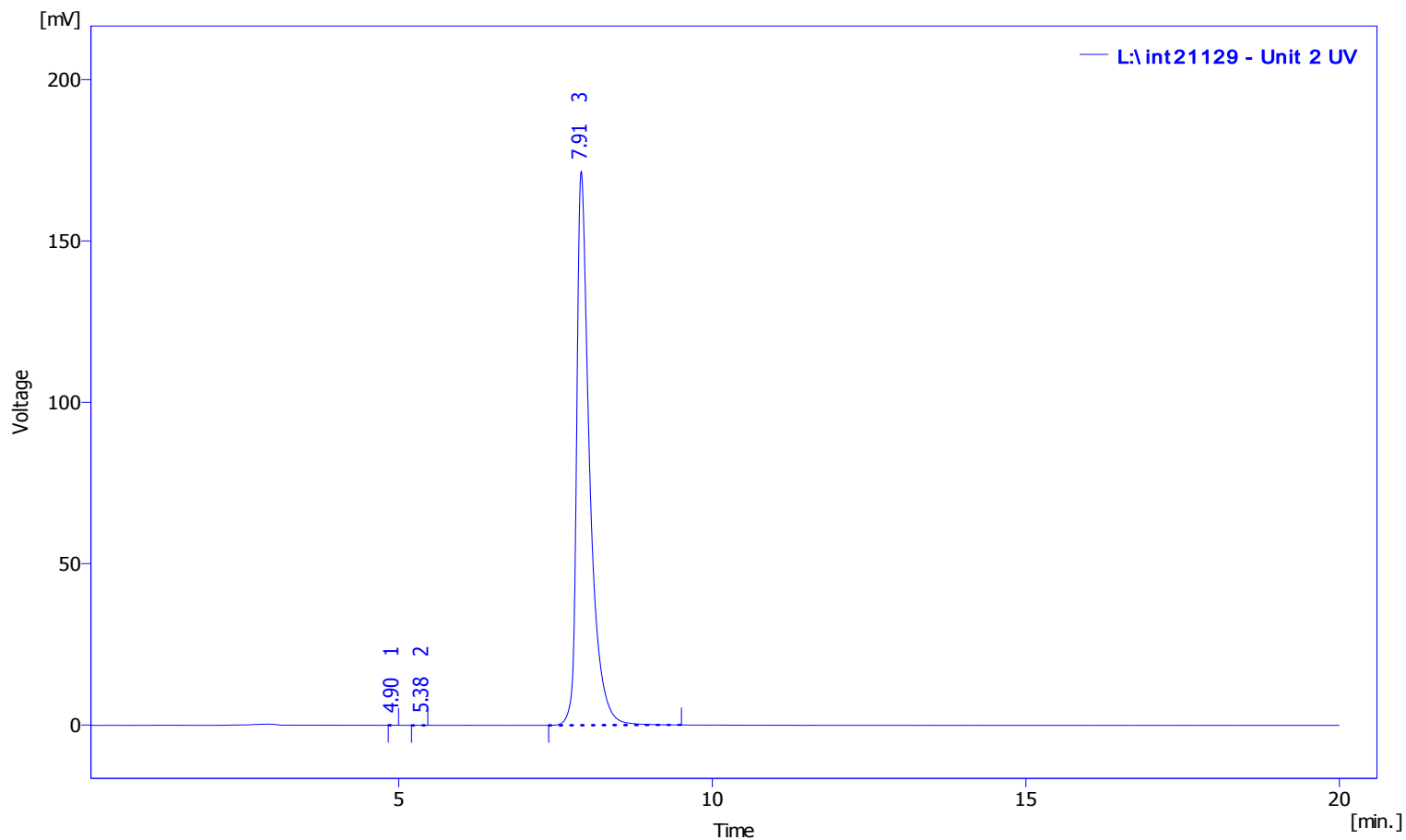
Result Table (Uncal - L:\int21129 - Unit 2 Radio)

	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		5.54	35.320	2.15	0.19	0.27	3214.21	64284.11	1.32		
2		8.21	18561.752	784.00	99.67	99.49	2937.81	58756.19	2.35		5.4
3		9.27	3.831	0.78	0.02	0.10	81052.86	1621057.20	1.25		2.9
4		9.47	22.143	1.06	0.12	0.13	34526.53	690530.56	6.00		1.2
		Total	18623.046	787.99	100.00	100.00					

MT-1771
Astemizole, [methyl-3H]-
Lot 211-141-0111-A-20051114-HP

Chromatogram Info:

File Name	: L:\int21129	File Created	: 4/2/2014 11:46:11 AM
Origin	: Acquired, Acquisition started 5/11/2011 9:51:56 AM	Acquired Date	: 5/11/2011 10:11:55 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 4/2/2014 12:08 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 286nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



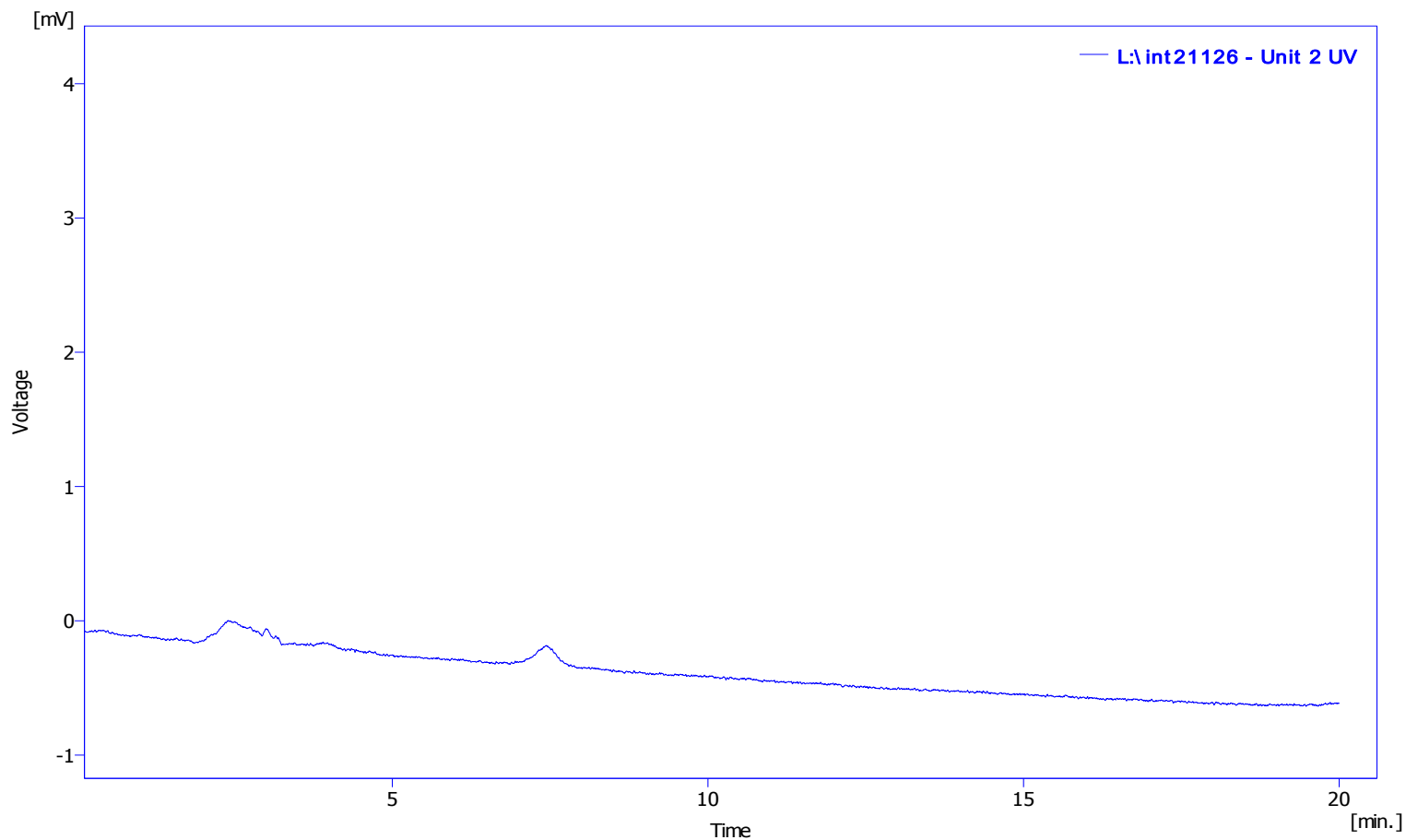
Result Table (Uncal - L:\int21129 - Unit 2 UV)

	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		4.90	0.298	0.05	0.01	0.03	13319.64	266392.87	1.24		
2		5.38	0.577	0.06	0.02	0.04	6010.69	120213.89	0.73		2.1
3		7.91	2478.758	171.68	99.96	99.93	8383.89	167677.80	1.70		8.1
		Total	2479.634	171.80	100.00	100.00					

MT-1771
Astemizole, [methyl-3H]-
Lot 211-141-0111-A-20051114-HP

Chromatogram Info:

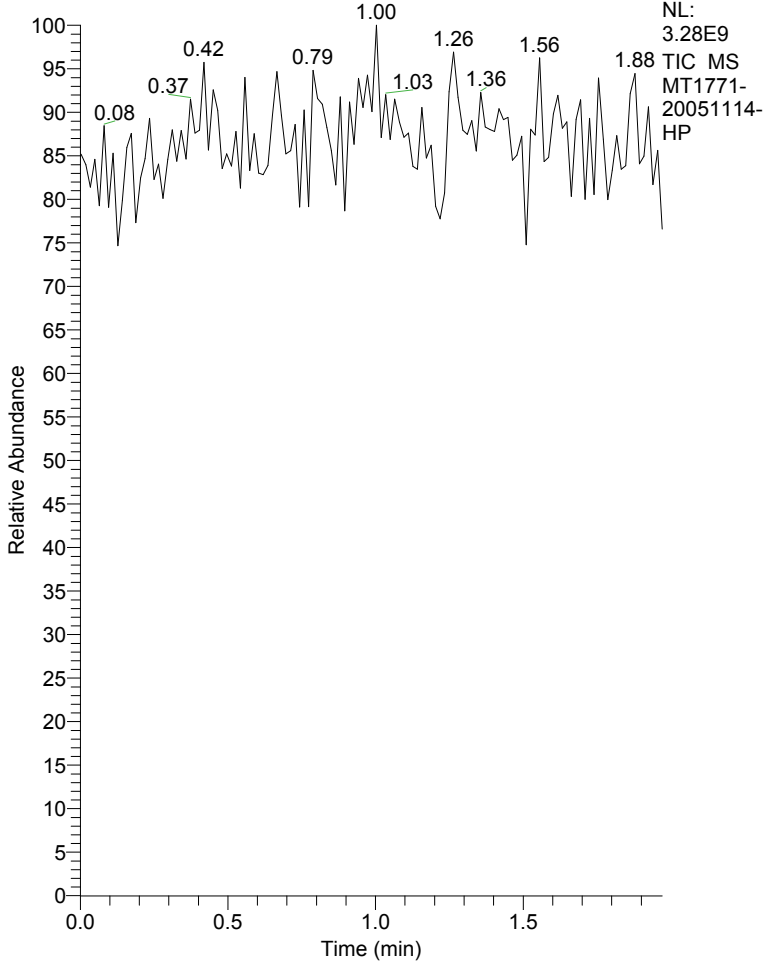
File Name	: L:\int21126	File Created	: 4/2/2014 11:46:11 AM
Origin	: Acquired, Acquisition started 5/11/2011 8:25:13 AM	Acquired Date	: 5/11/2011 8:45:13 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 4/2/2014 12:10 PM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 286nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int21126 - 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 - 1.97



MT1771-20051114-HP#1-129 RT: 0.00-1.97

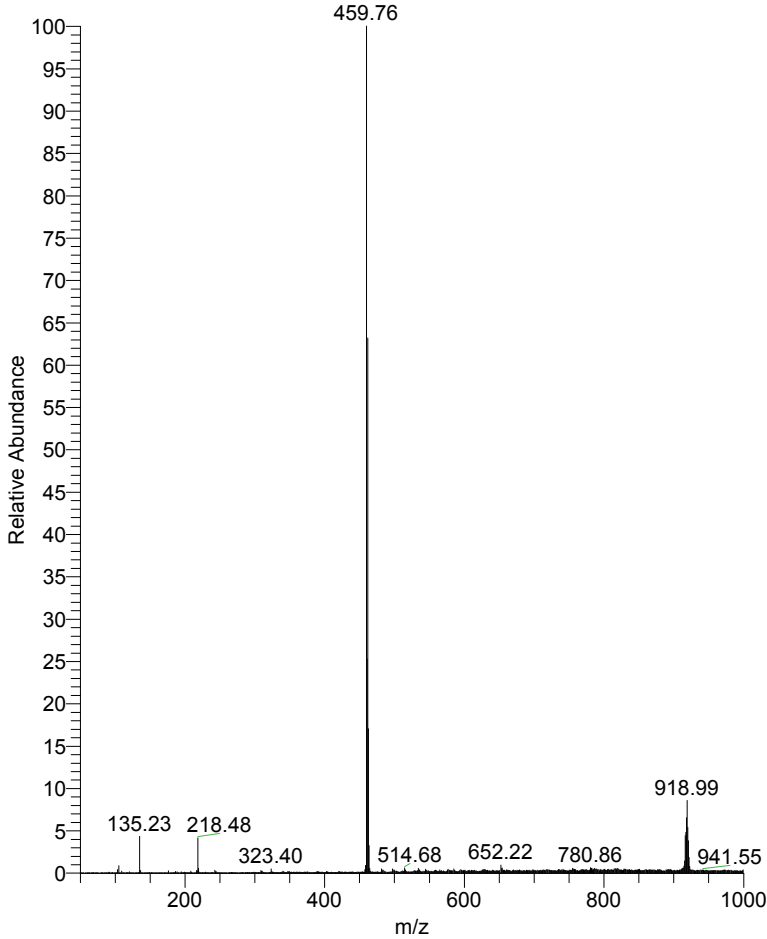
T: + c ESI Full ms [50.00-1000.00]

m/z = 451.67-484.55

m/z	Intensity	Relative
457.67	2478919.4	0.39
458.55	5674391.3	0.88
459.76	641177113.8	100.00
460.80	162035756.4	25.27
461.60	405034042.0	63.17
462.61	109144833.5	17.02
463.60	20605400.0	3.21
464.62	3412139.4	0.53
465.54	1245849.5	0.19
466.49	775290.0	0.12
468.86	836364.1	0.13
473.58	637862.3	0.10
475.34	929467.2	0.14
477.01	707456.2	0.11
481.40	2952529.2	0.46
482.52	1692256.4	0.26
483.52	2257000.9	0.35

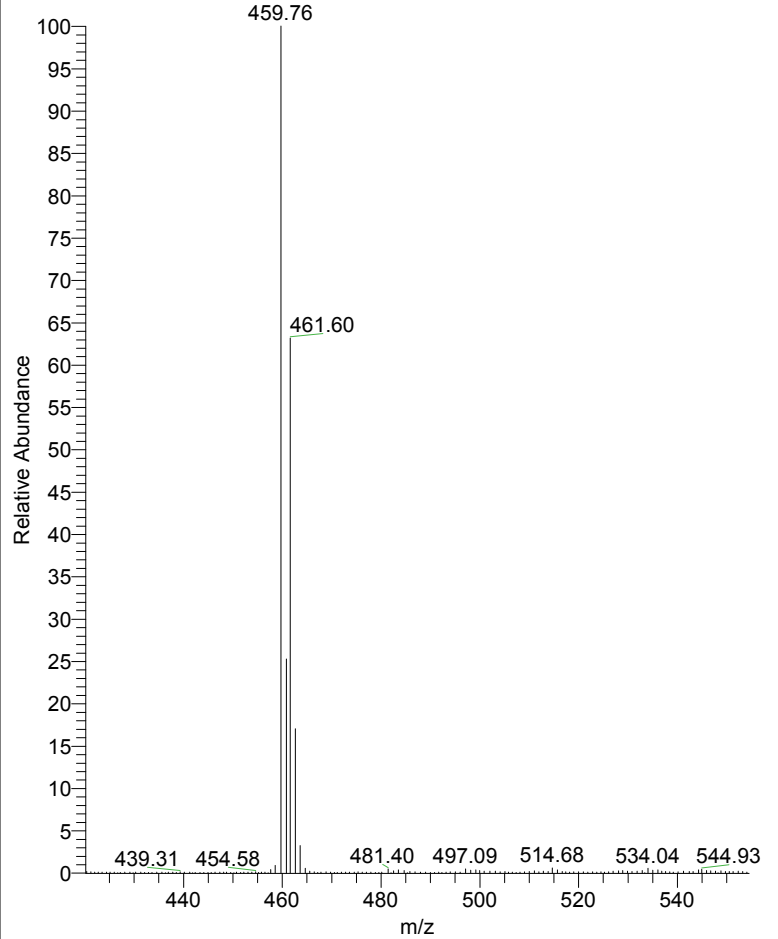
MT1771-20051114-HP #1-129 RT: 0.00-1.97 AV: 129 NL: 6.41E8

T: + c ESI Full ms [50.00-1000.00]



MT1771-20051114-HP #1-129 RT: 0.00-1.97 AV: 129 NL: 6.41E8

T: + c ESI Full ms [50.00-1000.00]



MT1771 3H NMR in MeOD
Batch 20051114-HP



BRUKER

7.054
7.030
7.004

NAME MT1771-20051114-HP
EXPNO 1
PROCNO 1
Date_ 20110516
Time_ 16.10
INSTRUM spect
PROBHD 5 mm DUX 3H-1H
PULPROG zg
TD 16384
SOLVENT MeOD
NS 2921
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
SFO1 320.1321857 MHz
SI 32768
SF 320.1305850 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

