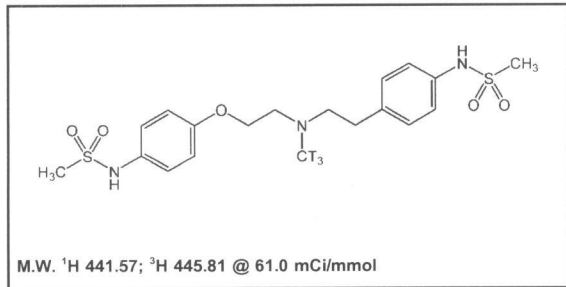




Product Data Sheet

MT-1847

Dofetilide, [methyl-³H]-



Lot #: 165-068-061-A-20090422-JG

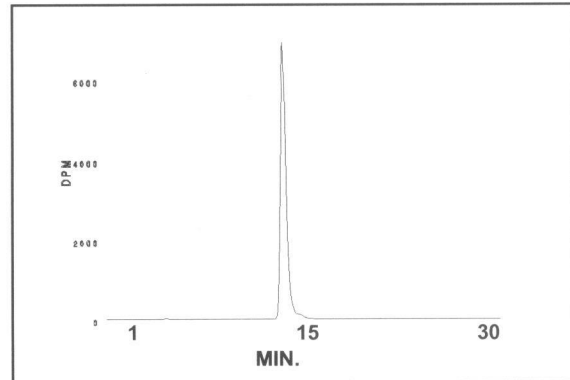
Specific Activity: 61 Ci/mmol

Concentration: 1.0 mCi/ml; 7.31 µg/ml

Packaged in: Ethanol solution

Date of Analysis: April 23, 2009

Radiochemical Purity: 99.4%



HPLC ANALYSIS LOT 165-068-061-A-20090422-JG
File Name: intg1701 Date and Time: 4/23/2009 1:00:27 PM
Unit 16 Radio

Peak #	Area %	Time	Area
1	0.14	4.51670	30.41852
2	99.47	13.46670	21546.64180
3	0.38	14.48670	83.33406
Totals	100.00		21660.39438

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-1847

Dofetilide, [³H]-

Lot 165-068-061-A-20090422-JG

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

Concentrations and volumes:

Standard solution concentration was 3.0 mg/mL.

Dofetilide, [³H]- concentration was 1.0 mCi/mL.

Volume of standard alone injection was 2.5 µL

Volume of **Dofetilide, [³H]-** alone injection was 1.0 µL.

Co-injection solution consisted of 1.0 µL **Dofetilide, [³H]-** + 2.5 µL standard.

Volume of co-injection was 3.5 µL.

Volume of blank injection was 1.0 µL.

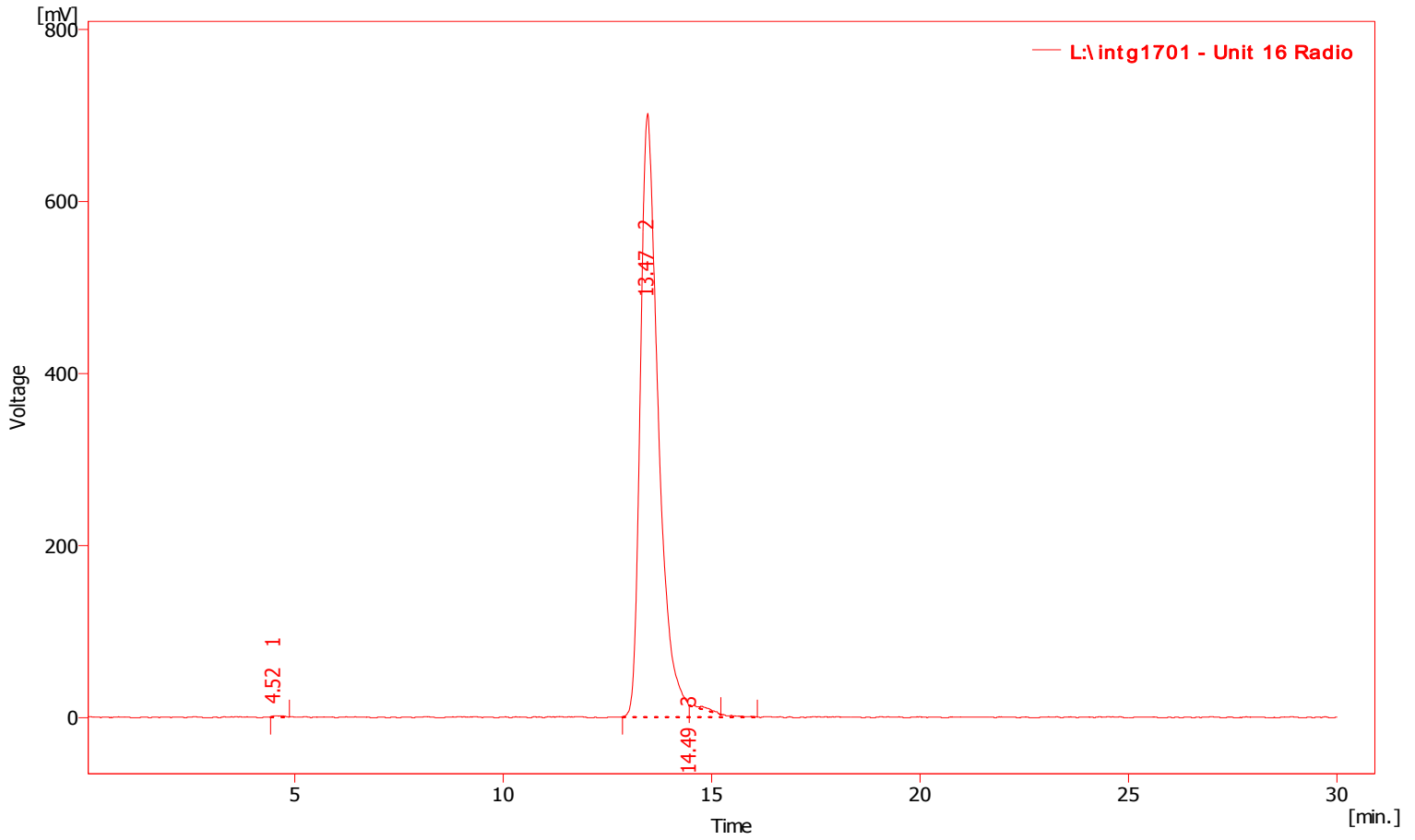
B) Mass spectrometry – Positive mode

C) NMR

MT-1847
Dofetilide, [3H]-
Lot 165-068-061-A-20090422-JG

Chromatogram Info:

File Name	: L:\intg1701	File Created	: 4/3/2014 10:37:07 AM
Origin	: Acquired, Acquisition started 4/23/2009 12:30:28 PM	Acquired Date	: 4/23/2009 1:00:27 PM
Project	: Test	By	: Administrator
Method	: Unit16_30_min_run	By	: Administrator
Description	: Radiochemical trace of 3H material alone	Modified	: 4/3/2014 11:15 AM
Created	: 8/9/2007 8:59 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



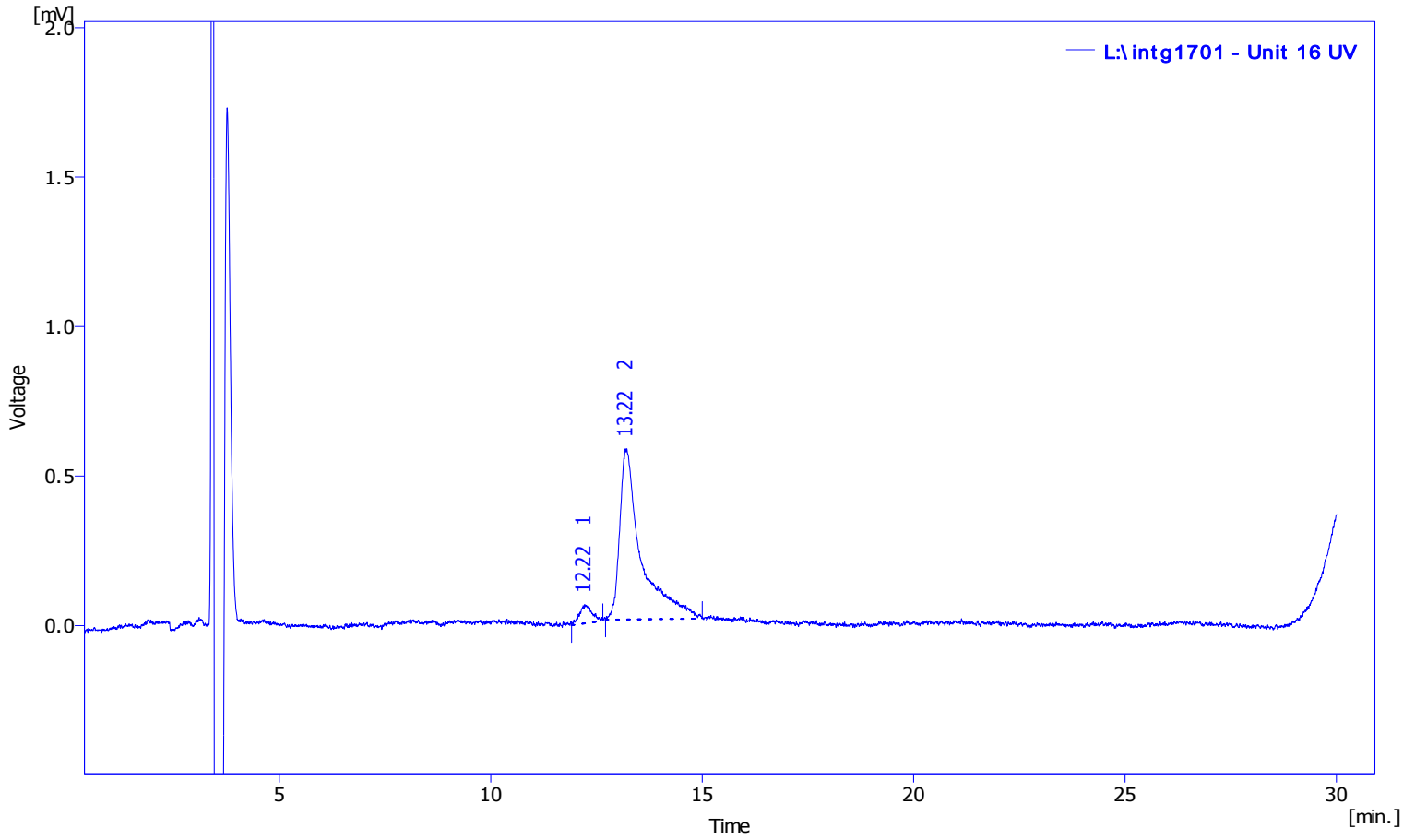
Result Table (Uncal - L:\intg1701 - Unit 16 Radio)

	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		4.52	30.419	1.54	0.14	0.22	2004.12	40082.33	2.28		
2		13.47	21546.642	701.89	99.47	99.74	0.00	0.00	2.67		13.4
3		14.49	83.334	0.31	0.38	0.04	8266.58	165331.58	16.21		2.5
		Total	21660.394	703.74	100.00	100.00					

MT-1847
Dofetilide, [3H]-
Lot 165-068-061-A-20090422-JG

Chromatogram Info:

File Name	: L:\intg1701	File Created	: 4/3/2014 10:37:07 AM
Origin	: Acquired, Acquisition started 4/23/2009 12:30:28 PM	Acquired Date	: 4/23/2009 1:00:27 PM
Project	: Test	By	: Administrator
Method	: Unit16_30_min_run	By	: Administrator
Description	: UV trace of 3H material alone	Modified	: 4/3/2014 11:14 AM
Created	: 8/9/2007 8:59 AM		
Column	:	Detection	: UV 232nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



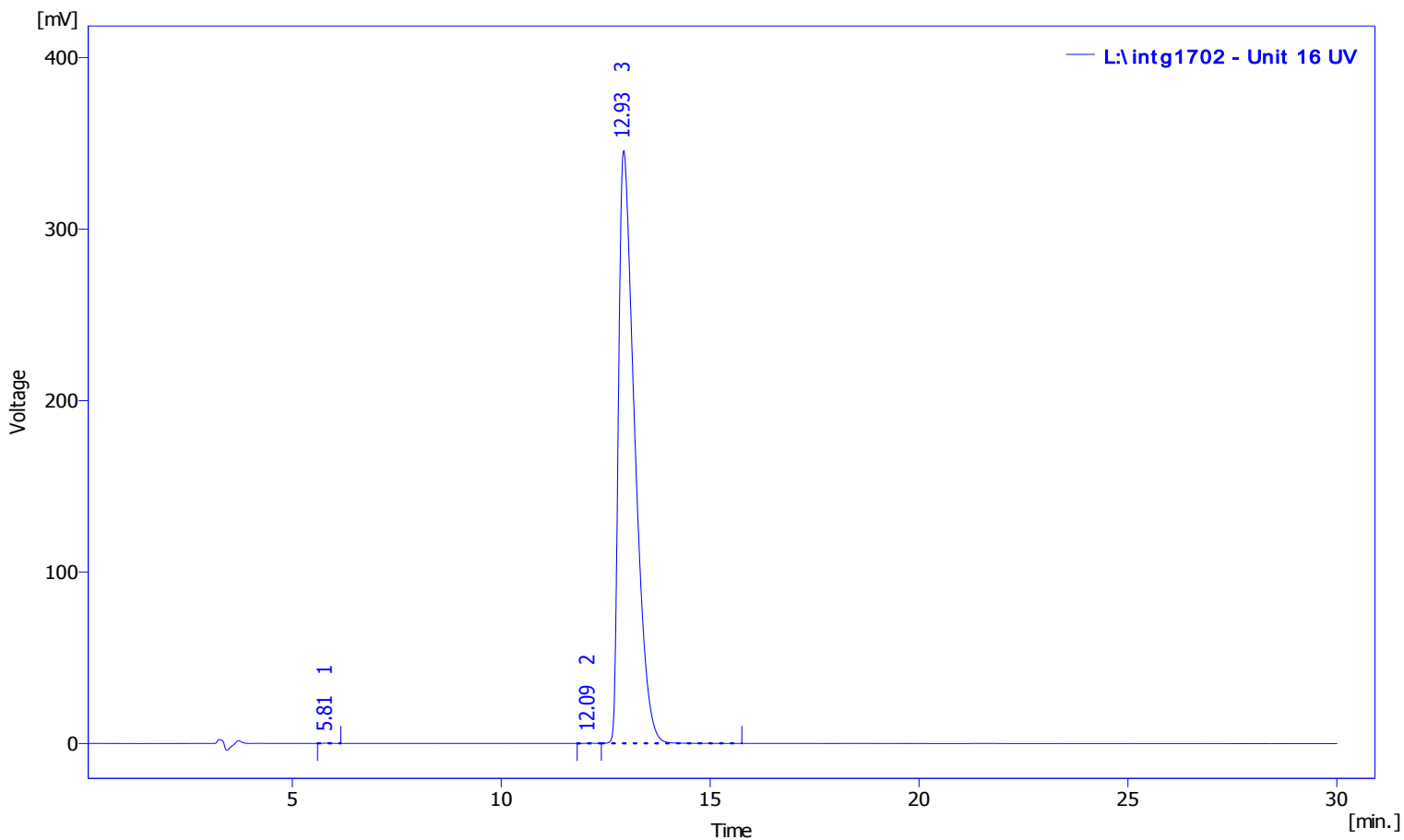
Result Table (Uncal - L:\intg1701 - Unit 16 UV)

	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		12.22	1.283	0.06	5.98	9.99	6711.76	134235.15	1.12		
2		13.22	20.187	0.57	94.02	90.01	991.73	19834.67	2.45		1.7
		Total	21.470	0.63	100.00	100.00					

MT-1847
Dofetilide, [3H]-
Lot 165-068-061-A-20090422-JG

Chromatogram Info:

File Name	: L:\intg1702	File Created	: 4/3/2014 10:37:07 AM
Origin	: Acquired, Acquisition started 4/23/2009 1:04:39 PM	Acquired Date	: 4/23/2009 1:34:38 PM
Project	: Test	By	: Administrator
Method	: Unit16_30_min_run	By	: Administrator
Description	: UV trace of standard alone	Modified	: 4/3/2014 11:22 AM
Created	: 8/9/2007 8:59 AM		
Column	:	Detection	: UV 232nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



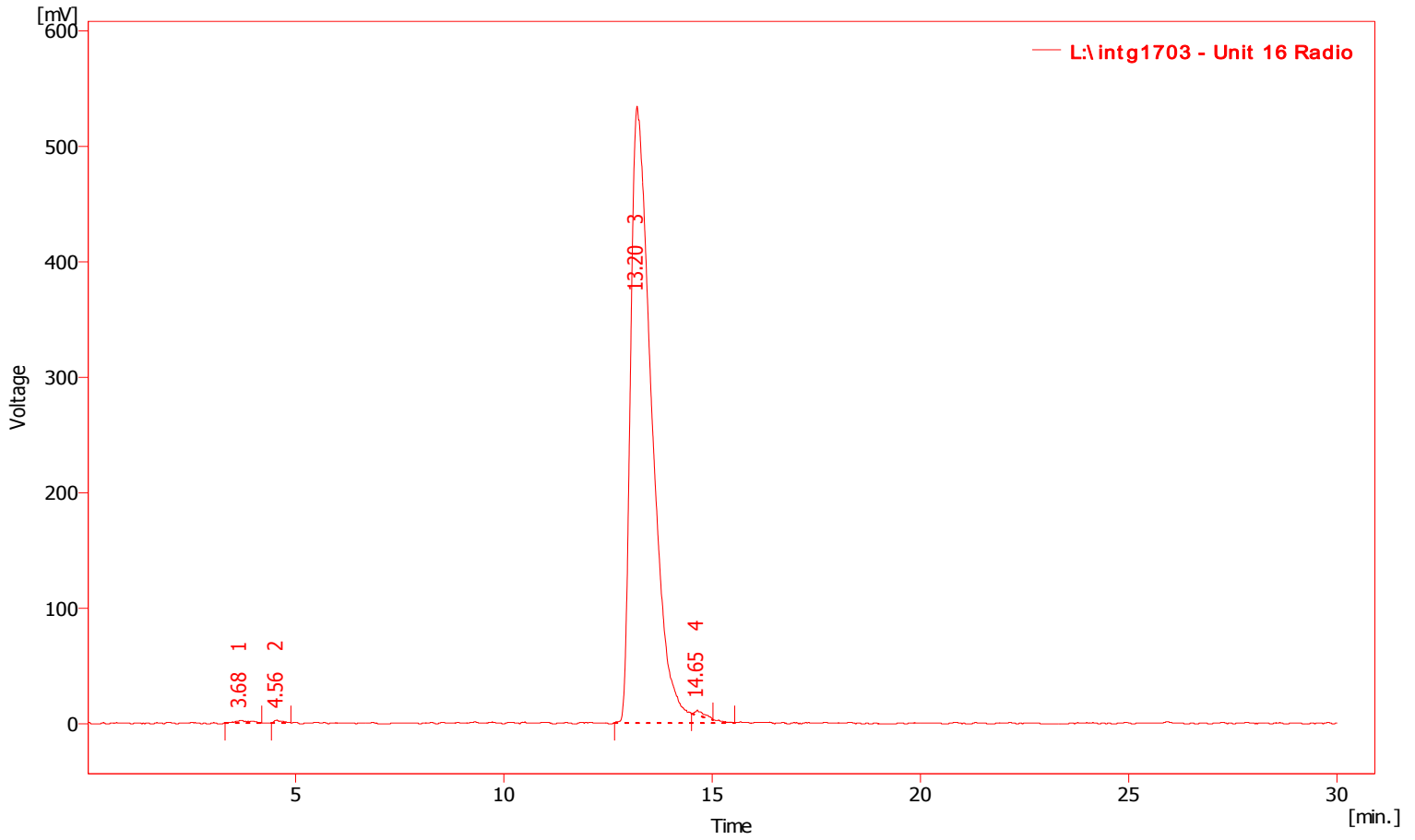
Result Table (Uncal - L:\intg1702 - Unit 16 UV)

	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		5.81	2.212	0.18	0.02	0.05	4092.91	81858.23	1.27		
2		12.09	2.491	0.13	0.03	0.04	9898.92	197978.46	1.14		14.8
3		12.93	9281.884	345.81	99.95	99.91	4130.03	82600.51	1.88		1.4
		Total	9286.587	346.12	100.00	100.00					

MT-1847
Dofetilide, [3H]-
Lot 165-068-061-A-20090422-JG

Chromatogram Info:

File Name	: L:\intg1703	File Created	: 4/3/2014 10:37:07 AM
Origin	: Acquired, Acquisition started 4/23/2009 1:35:56 PM	Acquired Date	: 4/23/2009 2:05:55 PM
Project	: Test	By	: Administrator
Method	: Unit16_30_min_run	By	: Administrator
Description	: Radiochemical trace of 3H material co-injected with standard	Modified	: 4/3/2014 11:30 AM
Created	: 8/9/2007 8:59 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



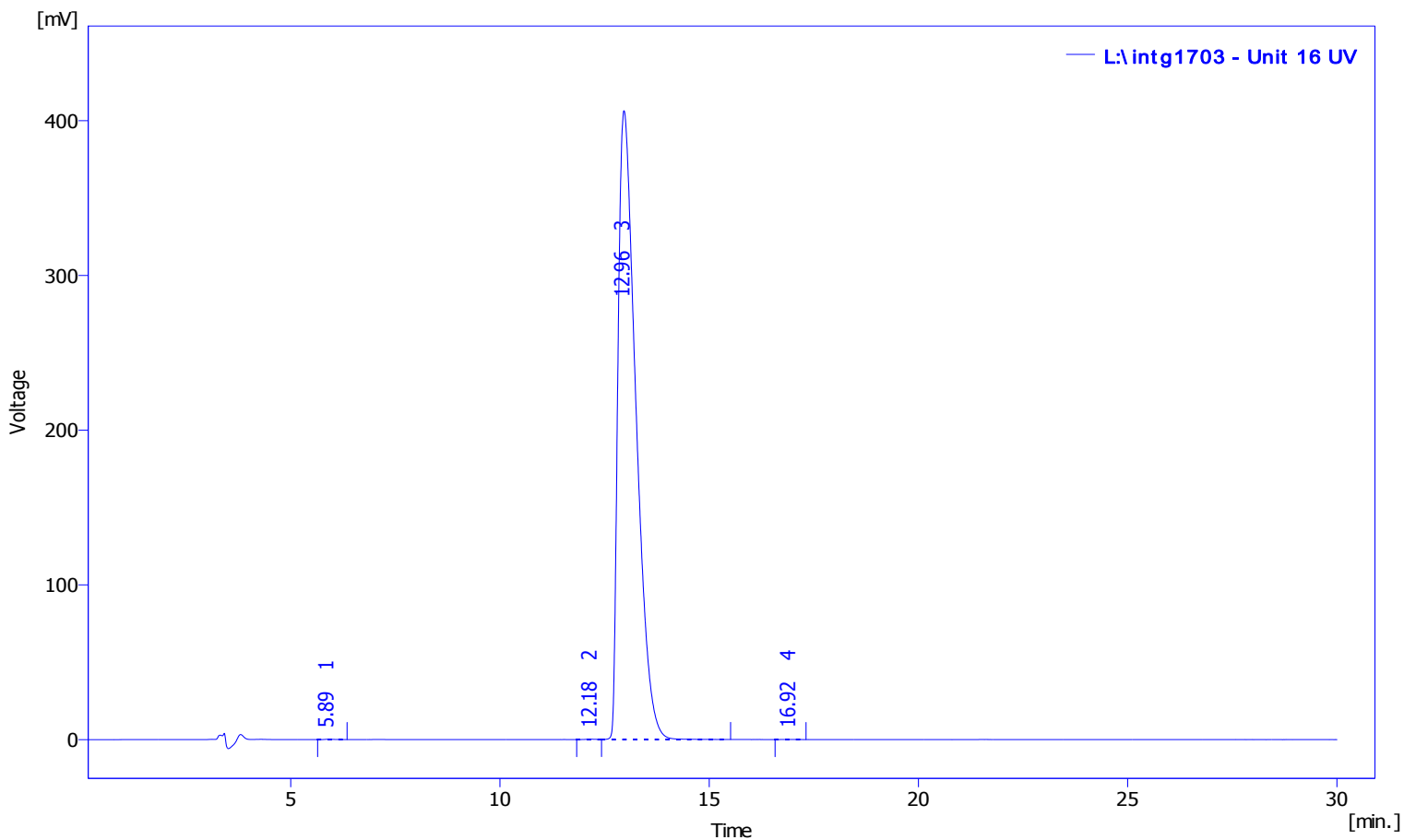
Result Table (Uncal - L:\intg1703 - Unit 16 Radio)

	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		3.68	60.945	2.19	0.32	0.40	343.34	6866.71	1.17		
2		4.56	35.527	2.65	0.19	0.49	1830.95	36619.06	1.76		1.3
3		13.20	18946.361	534.26	99.11	98.25	0.00	0.00	2.68		13.2
4		14.65	73.910	4.68	0.39	0.86	15150.58	303011.64	2.01		2.4
		Total	19116.744	543.78	100.00	100.00					

MT-1847
Dofetilide, [3H]-
Lot 165-068-061-A-20090422-JG

Chromatogram Info:

File Name	: L:\intg1703	File Created	: 4/3/2014 10:37:07 AM
Origin	: Acquired, Acquisition started 4/23/2009 1:35:56 PM	Acquired Date	: 4/23/2009 2:05:55 PM
Project	: Test	By	: Administrator
Method	: Unit16_30_min_run	By	: Administrator
Description	: UV trace of 3H material co-injected with standard	Modified	: 4/3/2014 11:29 AM
Created	: 8/9/2007 8:59 AM		
Column	:	Detection	: UV 232nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



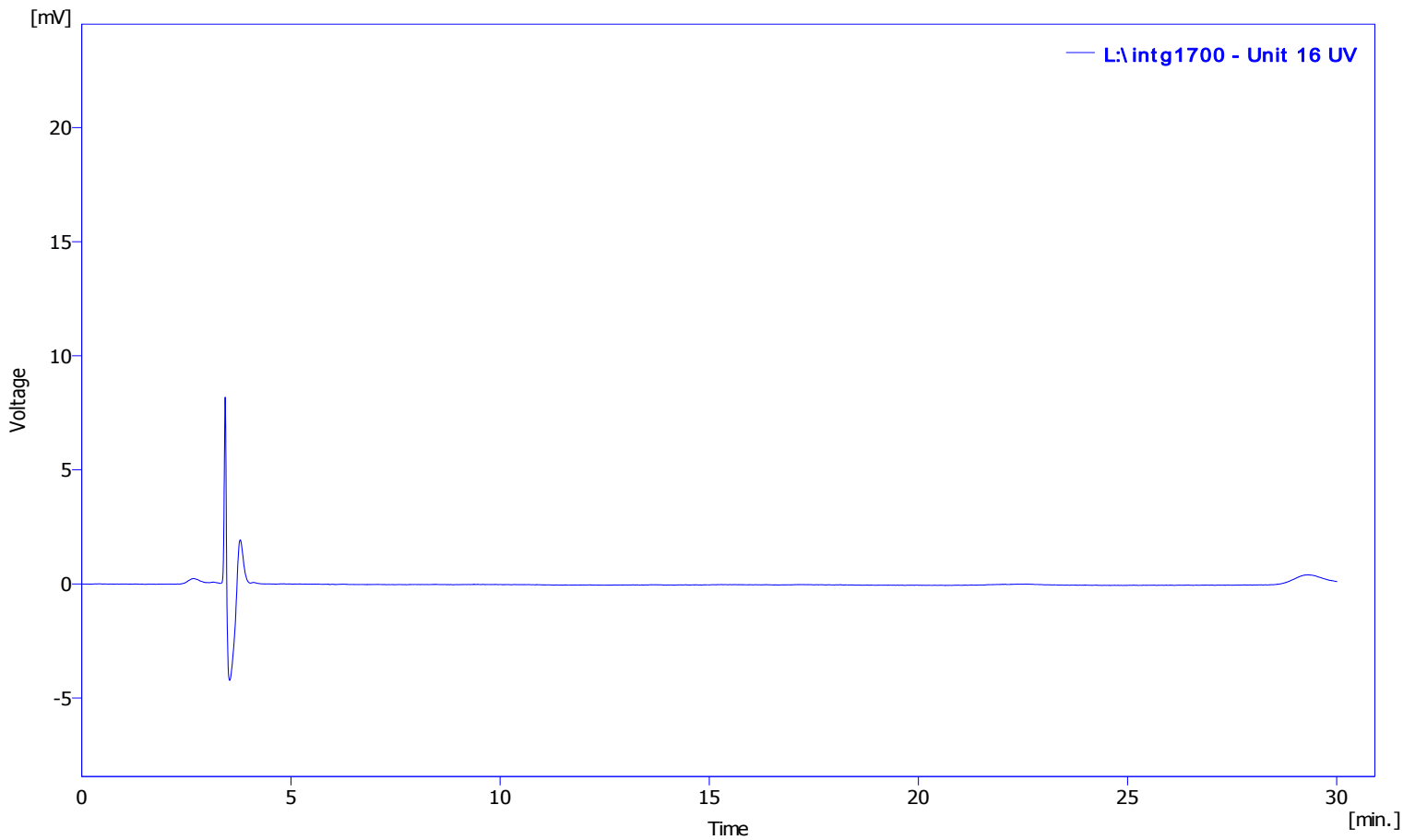
Result Table (Uncal - L:\intg1703 - Unit 16 UV)

	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		5.89	2.985	0.20	0.02	0.05	2735.31	54706.21	1.39		
2		12.18	3.724	0.21	0.03	0.05	11605.23	232104.66	0.96		14.5
3		12.96	12057.466	406.42	99.93	99.88	3611.27	72225.32	1.90		1.2
4		16.92	1.237	0.06	0.01	0.01	12089.71	241794.15	1.14		5.9
		Total	12065.412	406.89	100.00	100.00					

MT-1847
Dofetilide, [3H]-
Lot 165-068-061-A-20090422-JG

Chromatogram Info:

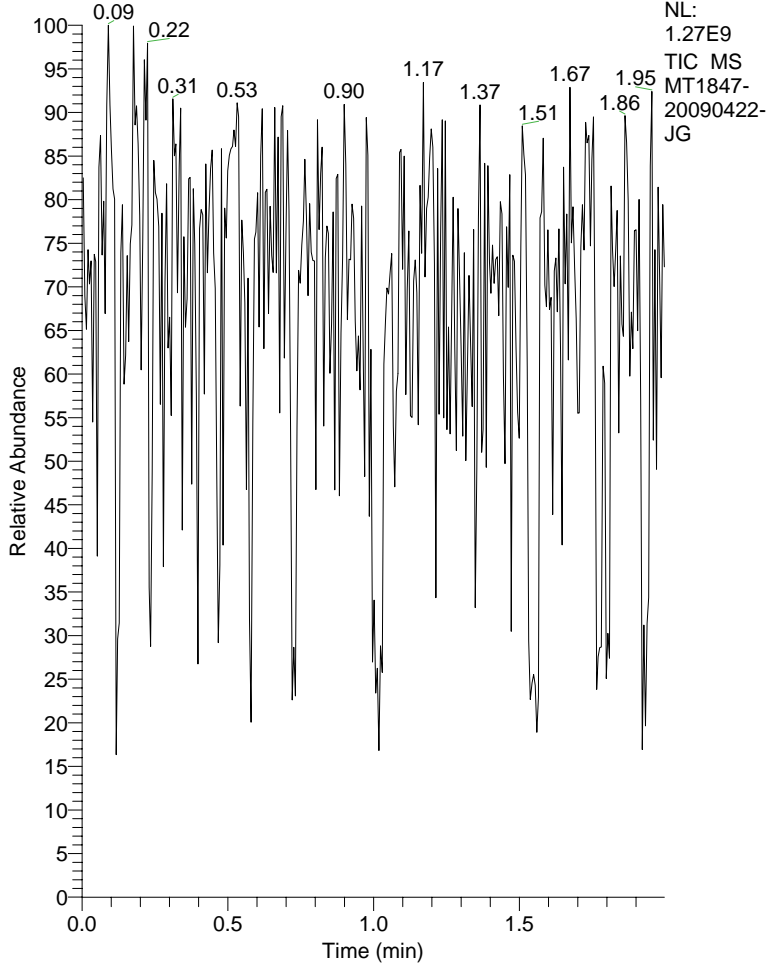
File Name	: L:\intg1700	File Created	: 4/3/2014 10:37:07 AM
Origin	: Acquired, Acquisition started 4/23/2009 11:55:27 AM	Acquired Date	: 4/23/2009 12:25:26 PM
Project	: Test	By	: Administrator
Method	: Unit16_30_min_run	By	: Administrator
Description	: UV trace of blank injection	Modified	: 4/3/2014 11:34 AM
Created	: 8/9/2007 8:59 AM		
Column	:	Detection	: UV 232nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\intg1700 - Unit 16 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 - 2.00



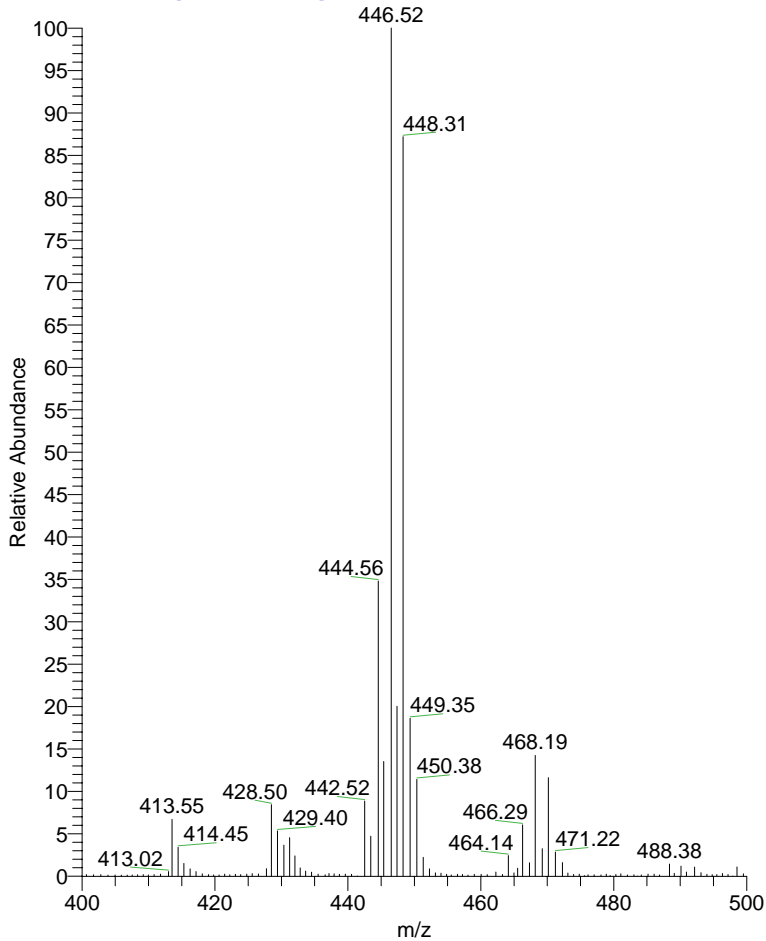
MT1847-20090422-JG#1-370 RT: 0.00-2.00

T: + c NSI Full ms [400.00-500.00]

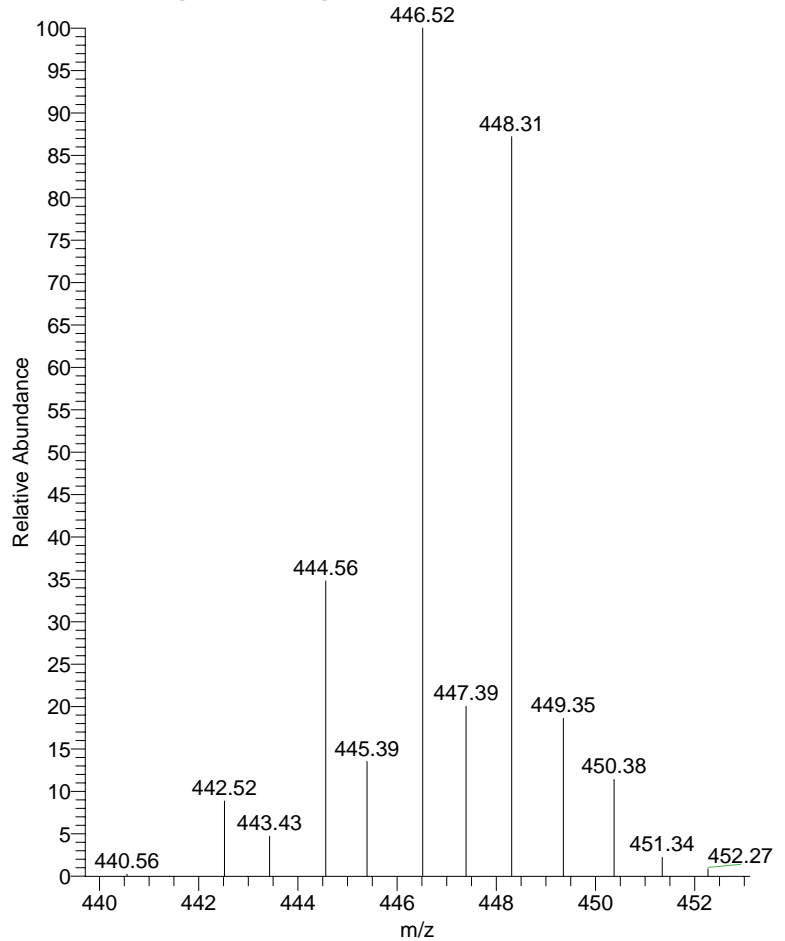
m/z = 441.67-451.09

m/z	Intensity	Relative
442.52	18642235.6	8.87
443.43	9905675.4	4.71
444.56	73152349.5	34.80
445.39	28415342.3	13.52
446.52	210225465.6	100.00
447.39	42095289.8	20.02
448.31	183295257.1	87.19
449.35	39147307.5	18.62
450.38	23969763.9	11.40

MT1847-20090422-JG #1-370 RT: 0.00-2.00 AV: 370 NL: 2.10E8
T: + c NSI Full ms [400.00-500.00]



MT1847-20090422-JG #1-370 RT: 0.00-2.00 AV: 370 NL: 2.10E8
T: + c NSI Full ms [400.00-500.00]



MT1847 3H NMR in MeOD
Batch 20090422-JG



3.098
3.054
3.009

6.564
6.542
6.522
6.477

Current Data Parameters
NAME MT1847
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20090423
Time 20.52
INSTRUM spect
PROBHD 5 mm DUX 3H-1H
PULPROG zgdc
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
d11 0.03000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 3H
P1 10.00 usec
PL1 2.00 dB
SFO1 320.1321857 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 85.00 usec
PL12 18.59 dB
PL2 0.00 dB
SFO2 300.1318534 MHz

F2 - Processing parameters
SI 32768
SF 320.1305850 MHz
WDW nc
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

