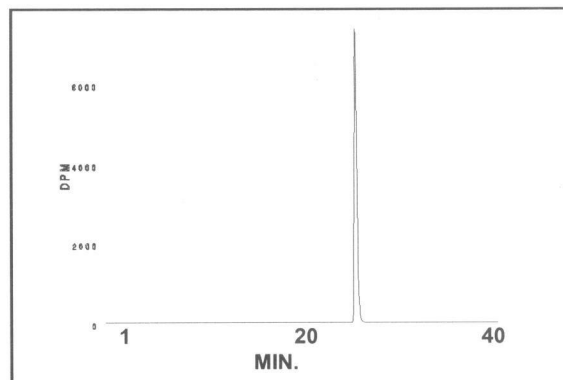
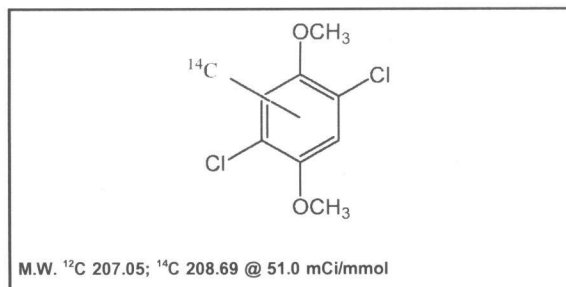




Product Data Sheet

MC-2407

Chloroneb, [ring-¹⁴C(U)]-



HPLC ANALYSIS LOT 198-027-051-A-20100615-DR
File Name: inti2518 Date and Time: 6/16/2010 3:16:13 PM
Unit 18 Radio

Peak #	Area %	Time	Area
1	99.97	25.49000	13655.48281
2	0.01	26.32670	1.56322
3	0.01	26.86000	0.93319
4	0.01	27.17670	1.95777
Totals	100.00		13659.93699

Lot #: 198-027-051-A-20100615-DR

Specific Activity: 51.0 mCi/mmol

Concentration: 0.2 mCi/ml; 818.37 µg/ml

Packaged in: Acetonitrile solution

Date of Analysis: June 16, 2010

Radiochemical Purity: 99.9%

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-2407

Chloroneb, [ring-¹⁴C(U)]-

Lot 198-027-051-A-20100615-DR

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.

Chloroneb, [ring-¹⁴C(U)]- concentration was 0.1 mCi/ml.

Volume of standard alone injection was 2.0 µl.

Volume of **Chloroneb, [ring-¹⁴C(U)]-** alone injection was 2.0 µl.

Co-injection solution consisted of 2.0 µl **Chloroneb, [ring-¹⁴C(U)]-** + 2.0 µl standard.

Volume of co-injection was 4.0 µl.

Volume of blank injection was 2.0 µl.

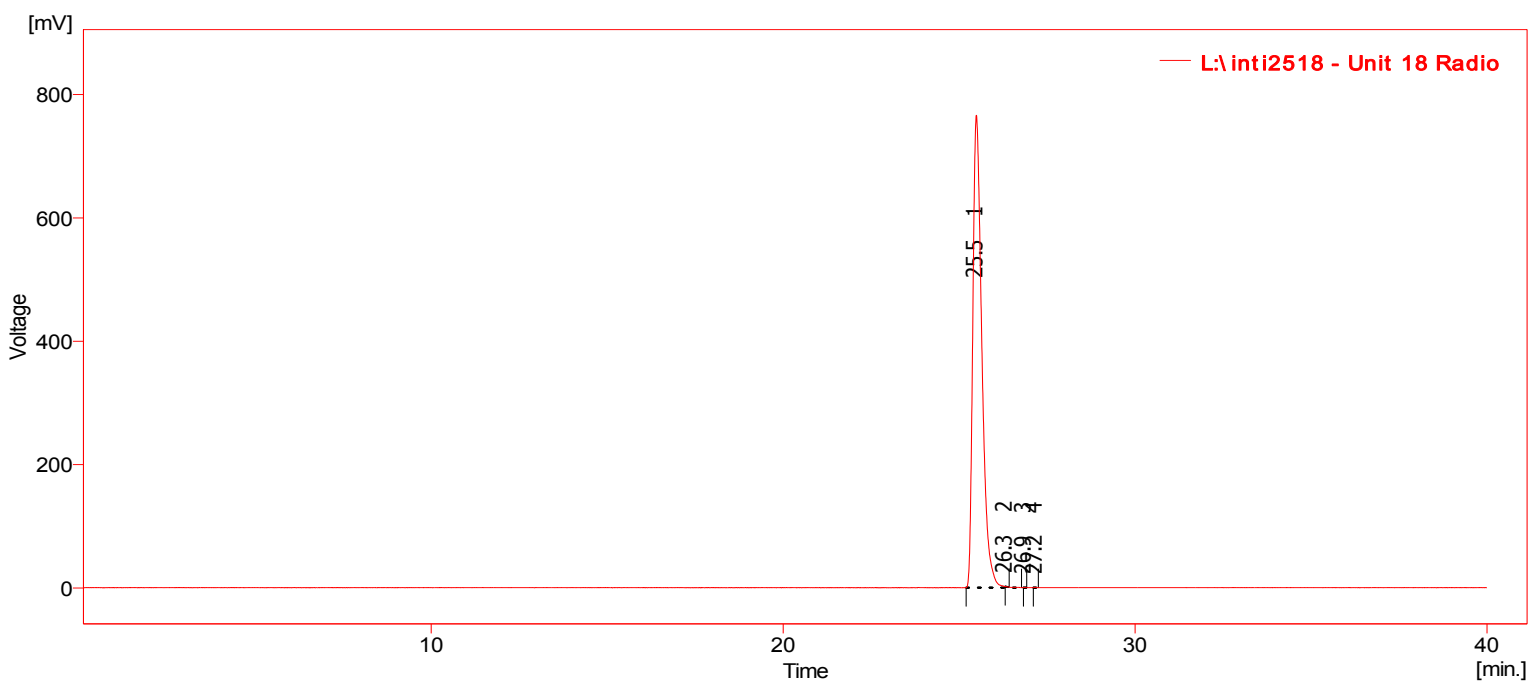
B) Mass spectrometry

C) NMR

MC-2407
Chloroneb, [ring-14C(U)]-
Lot 198-027-051-A-20100615-DR

Chromatogram Info:

File Name	: L:\inti2518	File Created	: 5/29/2014 3:42:46 PM
Origin	: Acquired, Acquisition started 6/16/2010 2:36:14 PM	Acquired Date	: 6/16/2010 3:16:13 PM
Project	: Work1	By	: Administrator
Method	: Unit18_40_min_run	By	: Administrator
Description	: Radiochemical trace of 14C material alone	Modified	: 5/29/2014 3:52 PM
Created	: 8/9/2007 1:12 PM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



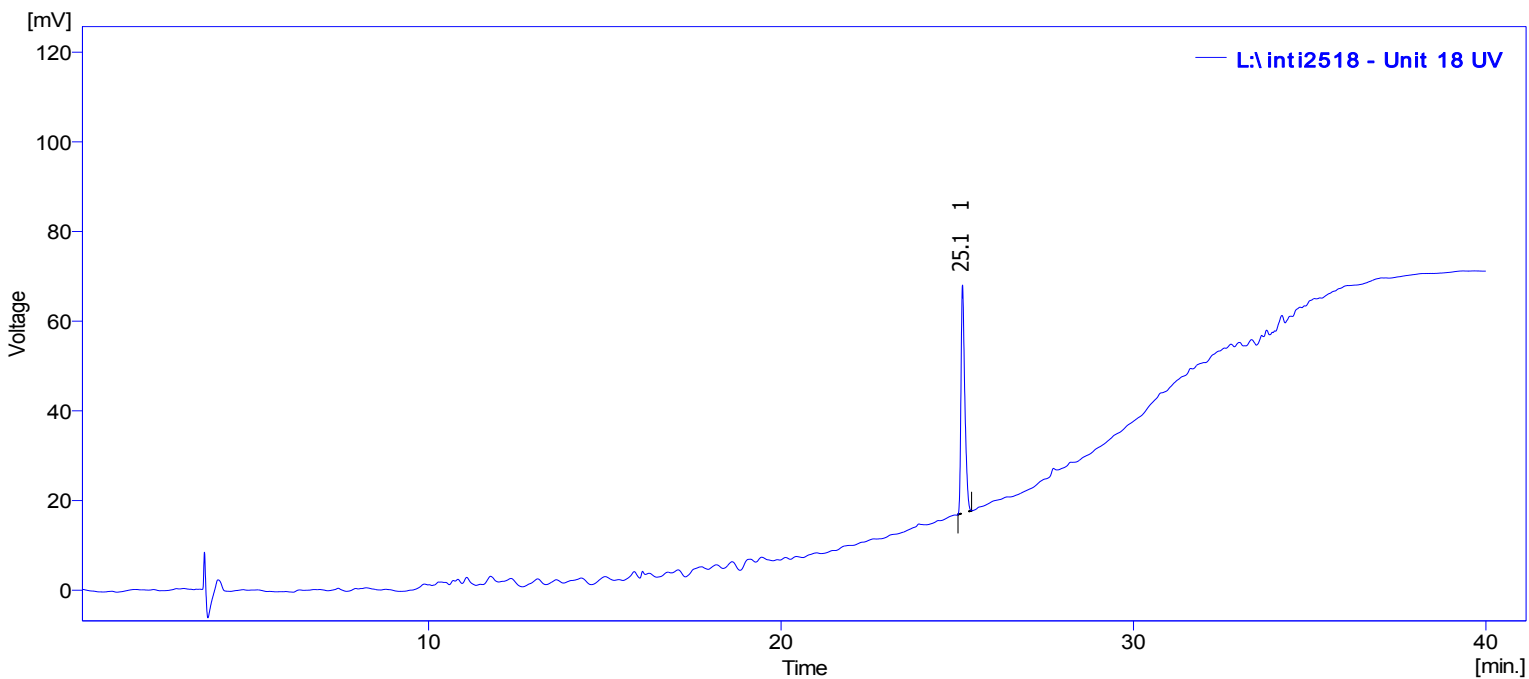
Result Table (Uncal - L:\inti2518 - Unit 18 Radio)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1		25.49	13655.483	765.83	99.97	99.8	0.27	0	0		2.71	
2		26.33	1.563	0.45	0.01	0.1	0.02	776665	15533294	3.33	3.30	
3		26.86	0.933	0.43	0.01	0.1	0.04	2912466	58249311	10.49	1.15	
4		27.18	1.958	0.47	0.01	0.1	0.07	1226043	24520853	3.50	0.88	
	Total		13659.937	767.18	100.00	100.0						

MC-2407
Chloroneb, [ring-14C(U)]-
Lot 198-027-051-A-20100615-DR

Chromatogram Info:

File Name	: L:\inti2518	File Created	: 5/29/2014 3:42:46 PM
Origin	: Acquired, Acquisition started 6/16/2010 2:36:14 PM	Acquired Date	: 6/16/2010 3:16:13 PM
Project	: Work1	By	: Administrator
Method	: Unit18_40_min_run	By	: Administrator
Description	: UV trace of 14C material alone	Modified	: 5/29/2014 3:49 PM
Created	: 8/9/2007 1:12 PM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\inti2518 - Unit 18 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	25.15	383.638	50.90	100.00	100.0	0.12	211437	4228737		1.41	
Total		383.638	50.90	100.00	100.0						

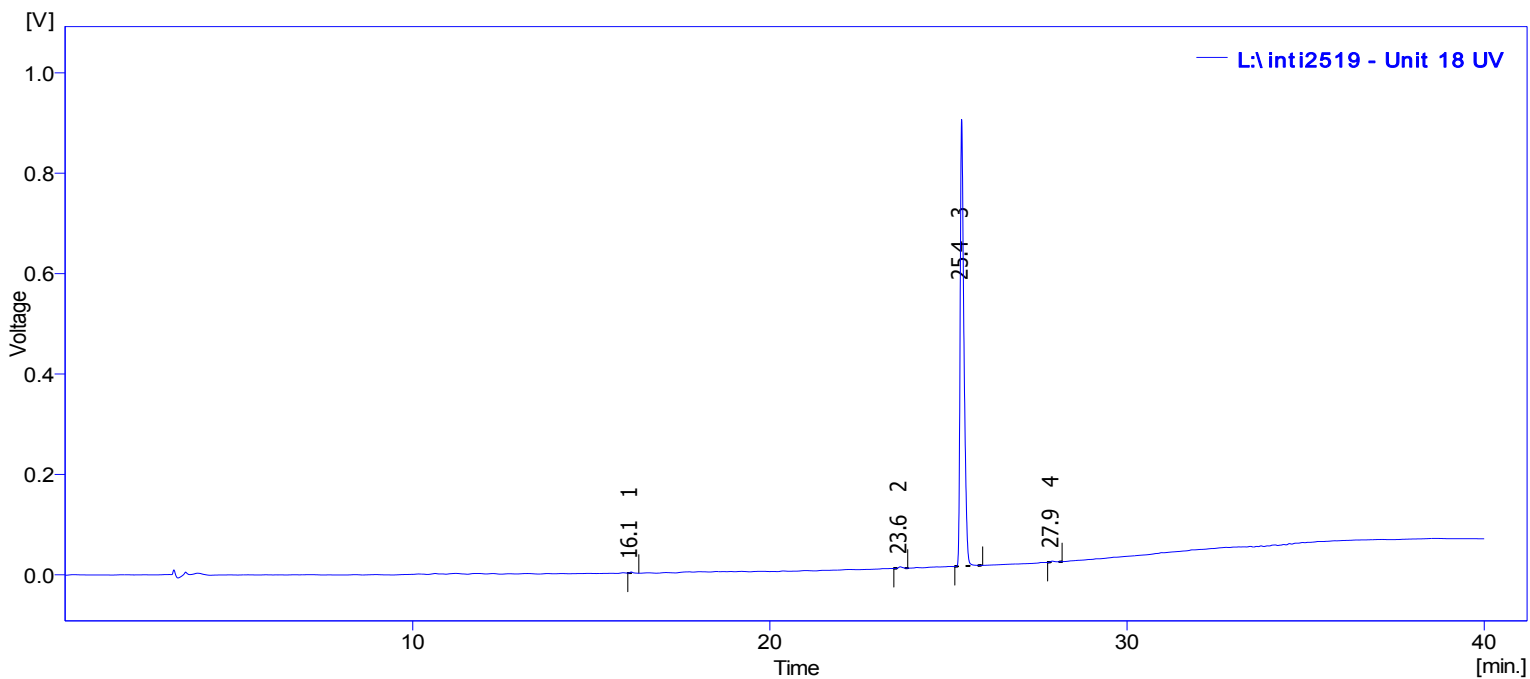
MC-2407
Chloroneb, [ring-14C(U)]-
Lot 198-027-051-A-20100615-DR

Chromatogram Info:

File Name : L:\inti2519 File Created : 5/29/2014 3:42:46 PM
 Origin : Acquired, Acquisition started 6/17/2010 9:01:13 AM Acquired Date : 6/17/2010 9:41:12 AM
 Project : Work1 By : Administrator

Method : Unit18_40_min_run By : Administrator
 Description : UV trace of standard material alone
 Created : 8/9/2007 1:12 PM Modified : 5/29/2014 3:53 PM

Column : Detection : UV 254nm
 Mobile Phase : Temperature :
 Flow Rate : Pressure :
 Note :



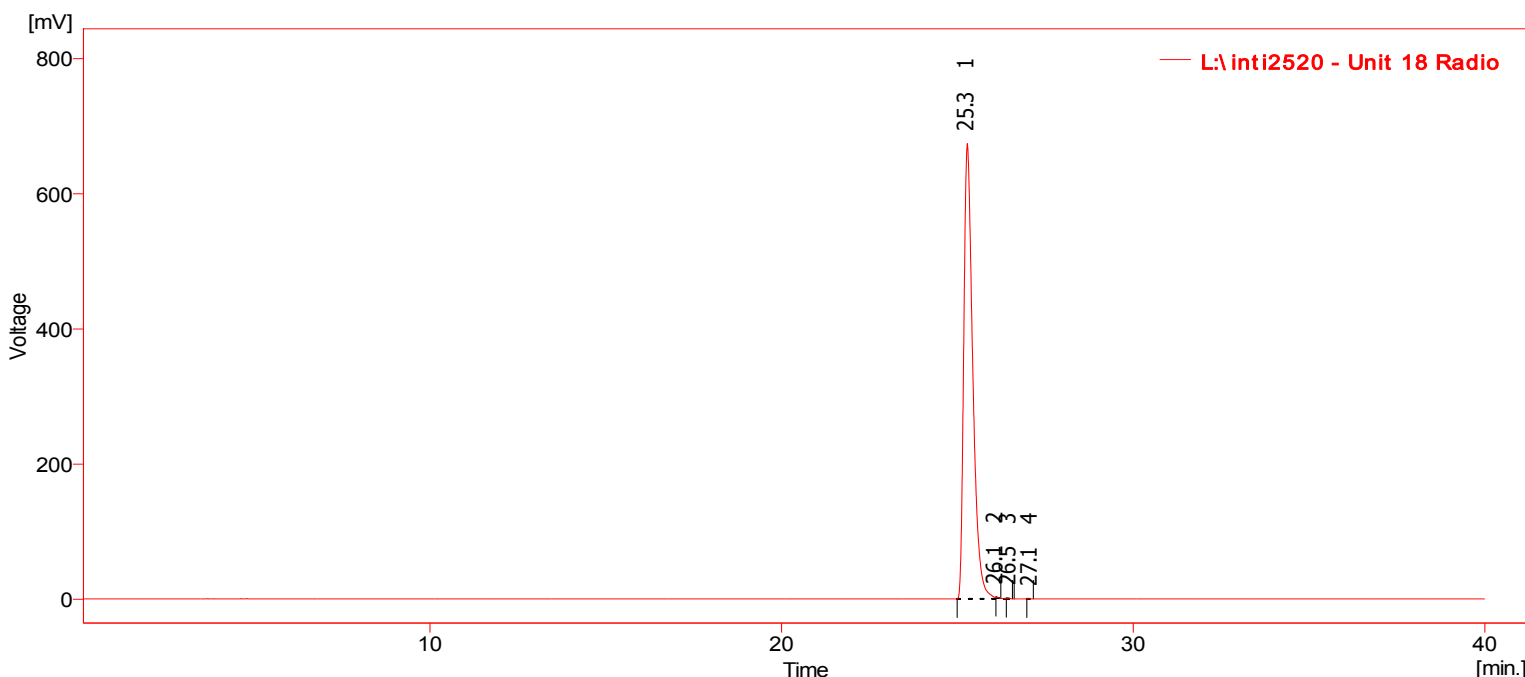
Result Table (Uncal - L:\inti2519 - Unit 18 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1		16.12	12.645	2.28	0.19	0.3	0.08	130442	2608832		1.55	
2		23.65	22.341	3.05	0.34	0.3	0.11	203827	4076541	45.98	1.36	
3		25.37	6554.118	889.82	99.22	99.2	0.12	202319	4046388	8.82	1.43	
4		27.91	16.245	2.12	0.25	0.2	0.14	233959	4679173	11.82	1.37	
	Total		6605.349	897.28	100.00	100.0						

MC-2407
Chloroneb, [ring-14C(U)]-
Lot 198-027-051-A-20100615-DR

Chromatogram Info:

File Name	: L:\inti2520	File Created	: 5/29/2014 3:42:46 PM
Origin	: Acquired, Acquisition started 6/17/2010 10:24:18 AM	Acquired Date	: 6/17/2010 11:04:17 AM
Project	: Work1	By	: Administrator
Method	: Unit18_40_min_run	By	: Administrator
Description	: Radiochemical trace of 14C material co-injected with standard		
Created	: 8/9/2007 1:12 PM	Modified	: 5/29/2014 3:54 PM
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



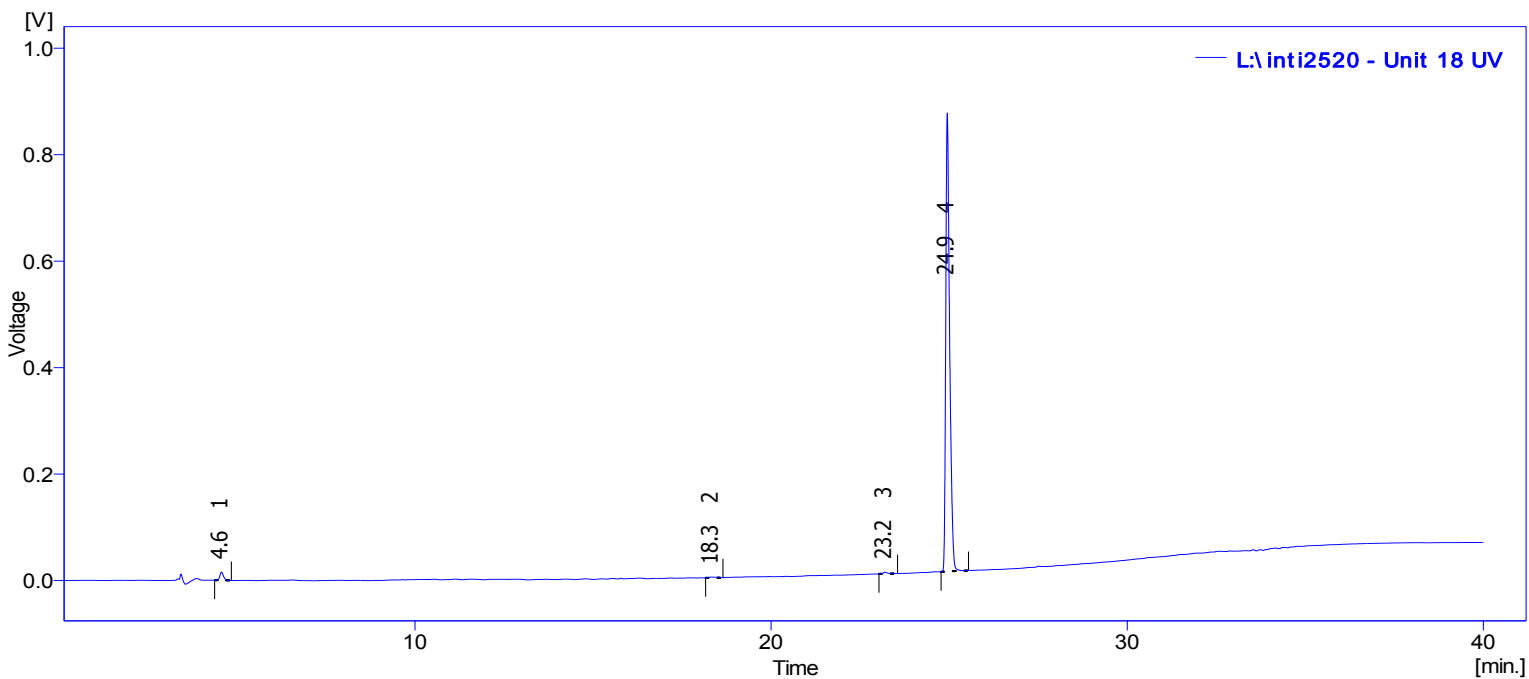
Result Table (Uncal - L:\inti2520 - Unit 18 Radio)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	25.28	12000.274	673.79	99.93	99.7	0.27	0	0		2.78	
2	26.11	2.786	0.55	0.02	0.1	0.03	620497	12409931	3.30	3.42	
3	26.48	4.097	0.71	0.03	0.1	0.10	528676	10573515	3.42	0.88	
4	27.08	2.010	0.46	0.02	0.1	0.06	584245	11684891	4.52	0.73	
Total		12009.167	675.52	100.00	100.0						

MC-2407
Chloroneb, [ring-14C(U)]-
Lot 198-027-051-A-20100615-DR

Chromatogram Info:

File Name	: L:\inti2520	File Created	: 5/29/2014 3:42:46 PM
Origin	: Acquired, Acquisition started 6/17/2010 10:24:18 AM	Acquired Date	: 6/17/2010 11:04:17 AM
Project	: Work1	By	: Administrator
Method	: Unit18_40_min_run	By	: Administrator
Description	: UV trace of 14C material co-injected with standard	Modified	: 5/29/2014 3:53 PM
Created	: 8/9/2007 1:12 PM		
Column	:	Detection	: UV 254nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\inti2520 - Unit 18 UV)

	Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1		4.56	110.275	15.44	1.65	1.8	0.11	7974	159487		1.19	
2		18.33	21.390	1.38	0.32	0.2	0.32	33898	677963	38.08	1.39	
3		23.20	23.285	2.88	0.35	0.3	0.12	87487	1749742	13.24	1.88	
4		24.95	6541.234	861.03	97.69	97.8	0.12	182901	3658024	8.85	1.46	
	Total		6696.184	880.73	100.00	100.0						

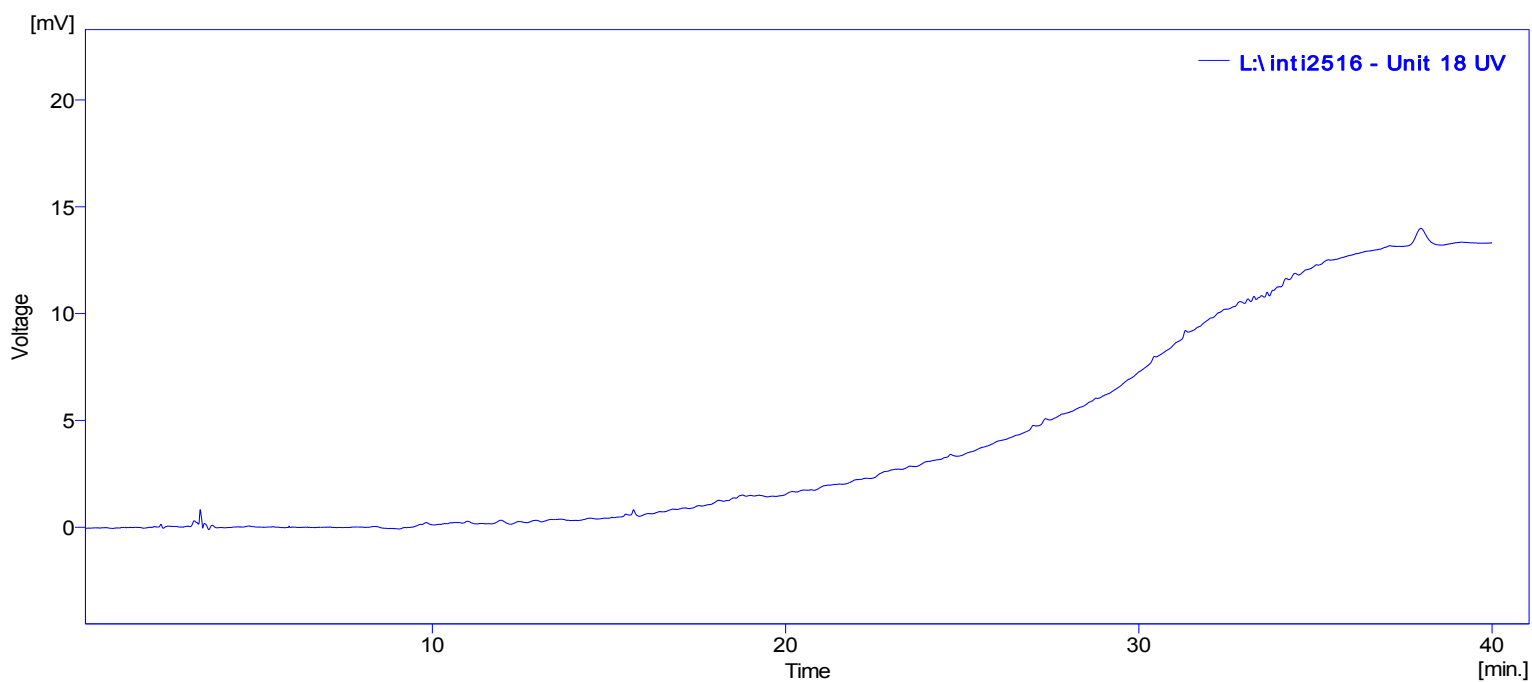
MC-2407
Chloroneb, [ring-14C(U)]-
Lot 198-027-051-A-20100615-DR

Chromatogram Info:

File Name : L:\inti2516 File Created : 5/29/2014 3:42:46 PM
 Origin : Acquired, Acquisition started 6/16/2010 11:57:49 AM Acquired Date : 6/16/2010 12:37:48 PM
 Project : Work1 By : Administrator

Method : Unit18_40_min_run By : Administrator
 Description : UV trace of blank injection
 Created : 8/9/2007 1:12 PM Modified : 5/29/2014 3:46 PM

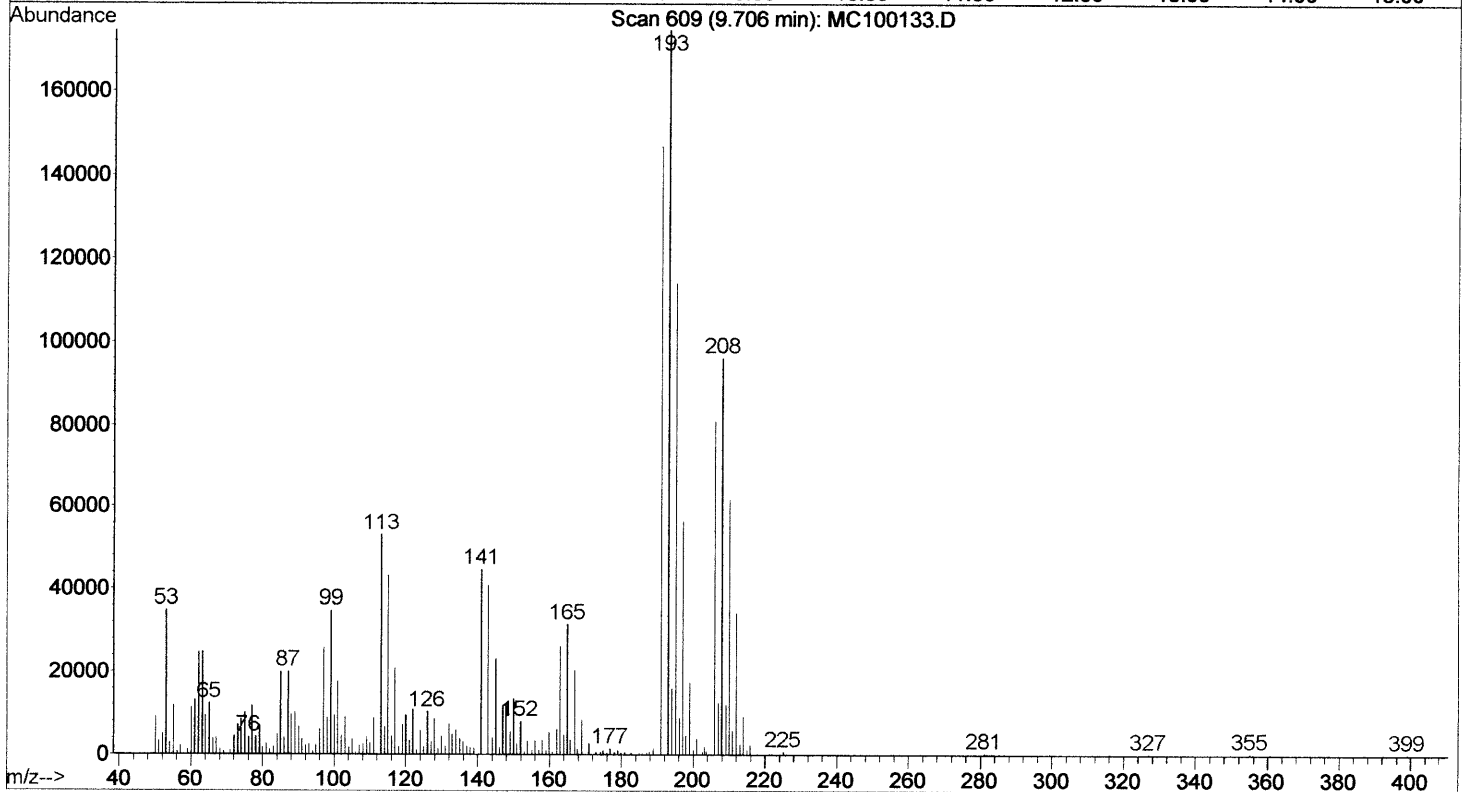
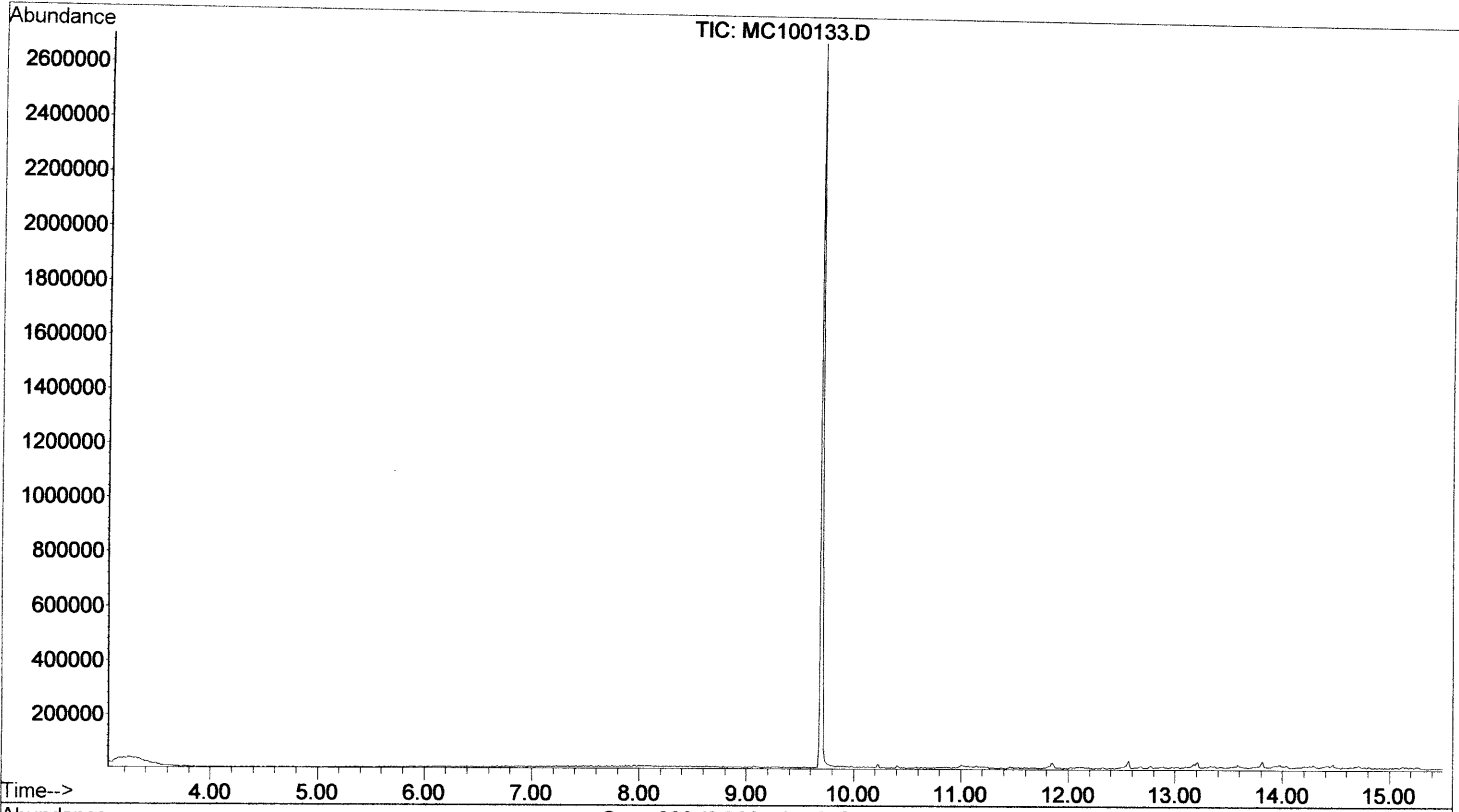
Column : Detection : UV 254nm
 Mobile Phase : Temperature :
 Flow Rate : Pressure :
 Note :



Result Table (Uncal - L:\inti2516 - Unit 18 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
No peak to report											

File : C:\HPCHEM1\DATA\MC100133.D
Operator : aa
Acquired : 17 Jun 2010 10:51 using AcqMethod PYRETH
Instrument : GC/MS Ins
Sample Name: chloroneb
Misc Info :
Vial Number: 1



MC2407 1H NMR in CD2Cl2
Batch 20100615-DR



NAME MC2407
EXPNO 2
PROCNO 1
Date_ 20100618
Time_ 13.26
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CD2Cl2
NS 512
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 294.3 K
D1 1.00000000 sec
TD0 1

==== CHANNEL f1 =====
NUC1 1H
P1 14.50 usec
PL1 -0.70 dB
PL1W 10.03411102 W
SF01 400.1324710 MHz
SI 32768
SF 400.1300062 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

