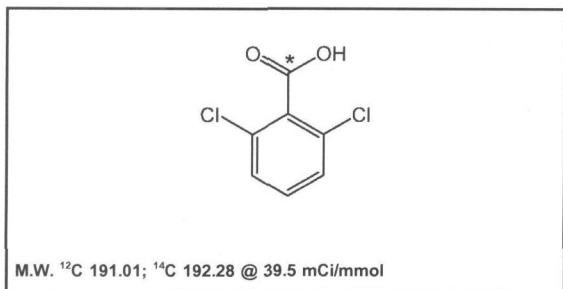




Product Data Sheet

MC-1389

2,6-Dichlorobenzoic acid, [carboxyl-¹⁴C]-



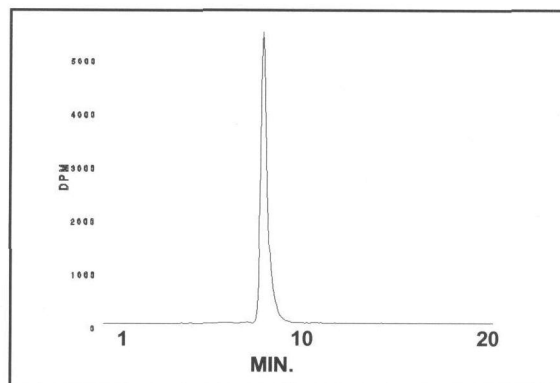
Lot #: 195-176-0395-A-20010821-DC

Specific Activity: 39.5 mCi/mmol

Packaged as: Solid

Date of Analysis: October 25, 2010

Radiochemical Purity: 99.4%



HPLC ANALYSIS LOT 195-176-0395-A-20010821-DC
File Name: int20741 Date and Time: 10/25/2010 10:44:42
Unit 2 Radio

Peak #	Area %	Time	Area
1	0.22	6.42000	30.37551
2	0.22	7.40000	30.73611
3	99.48	8.21000	13776.78357
4	0.08	10.76000	10.82797
Totals	100.00		13848.72316

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-1389

2,6-Dichlorobenzoic acid, [carboxyl-¹⁴C]-

Lot 195-176-0395-A-20010821-DC

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.

2,6-Dichlorobenzoic acid, [carboxyl-¹⁴C]- concentration was 50.0 µCi/ml.

Volume of standard alone injection was 2.0 µl.

Volume of **2,6-Dichlorobenzoic acid, [carboxyl-¹⁴C]-** alone injection was 2.0 µl.

Co-injection solution consisted of 2.0 µl **2,6-Dichlorobenzoic acid, [carboxyl-¹⁴C]-** + 2.0 µl standard.

Volume of co-injection was 4.0 µl.

Volume of blank injection was 2.0 µl.

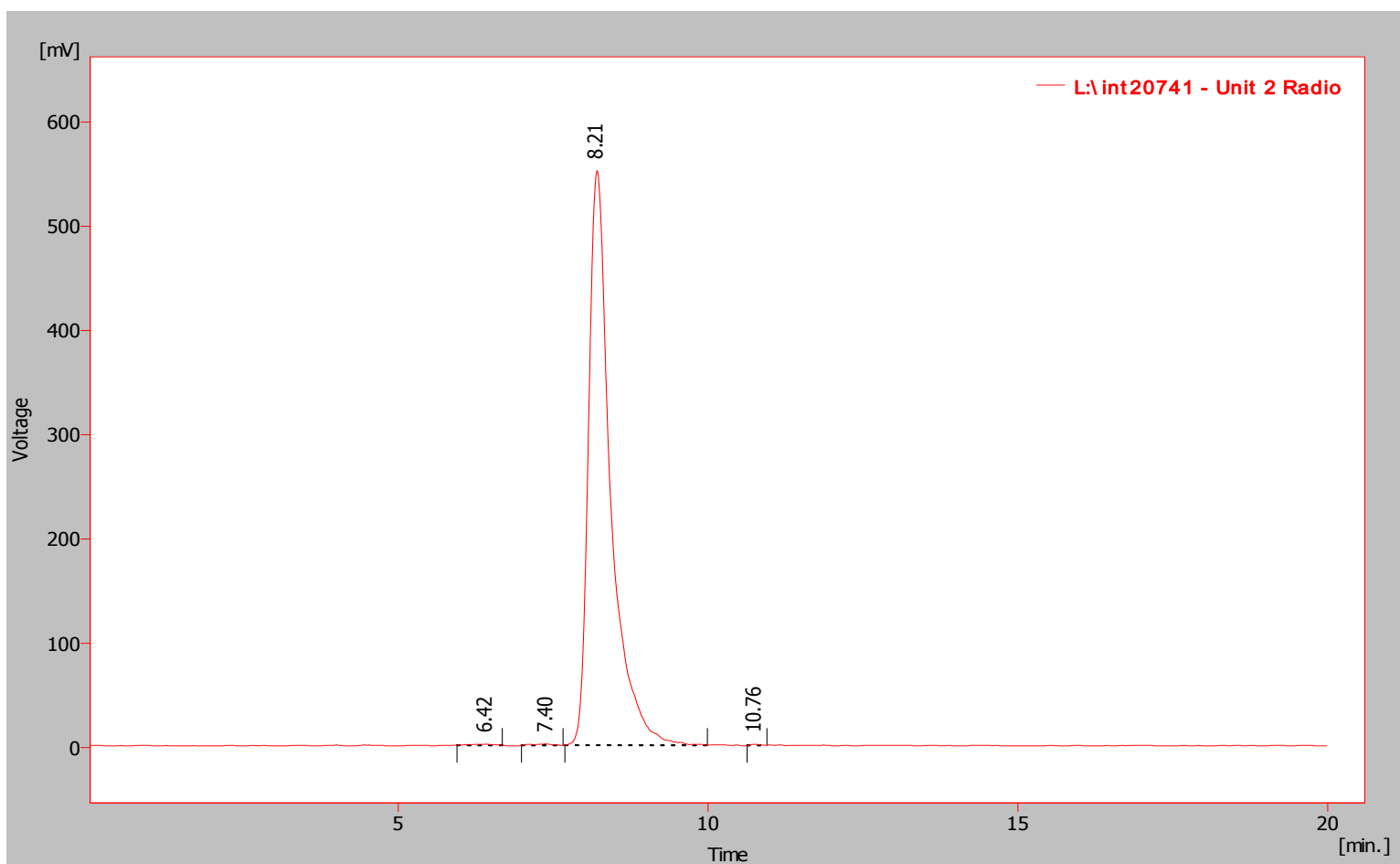
B) Mass spectrometry – Negative mode

C) NMR

MC-1389
2,6-Dichlorobenzoic acid, [carboxyl-14C]-
Lot 195-176-0395-A-20010821-DC

Chromatogram Info:

File Name	: L:\int20741	File Created	: 11/22/2013 9:27:49 AM
Origin	: Acquired, Acquisition started 10/25/2010 10:24:42 AM	Acquired Date	: 10/25/2010 10:44:42 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: Radiochemical trace of 14C material alone	Modified	: 11/22/2013 10:50 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



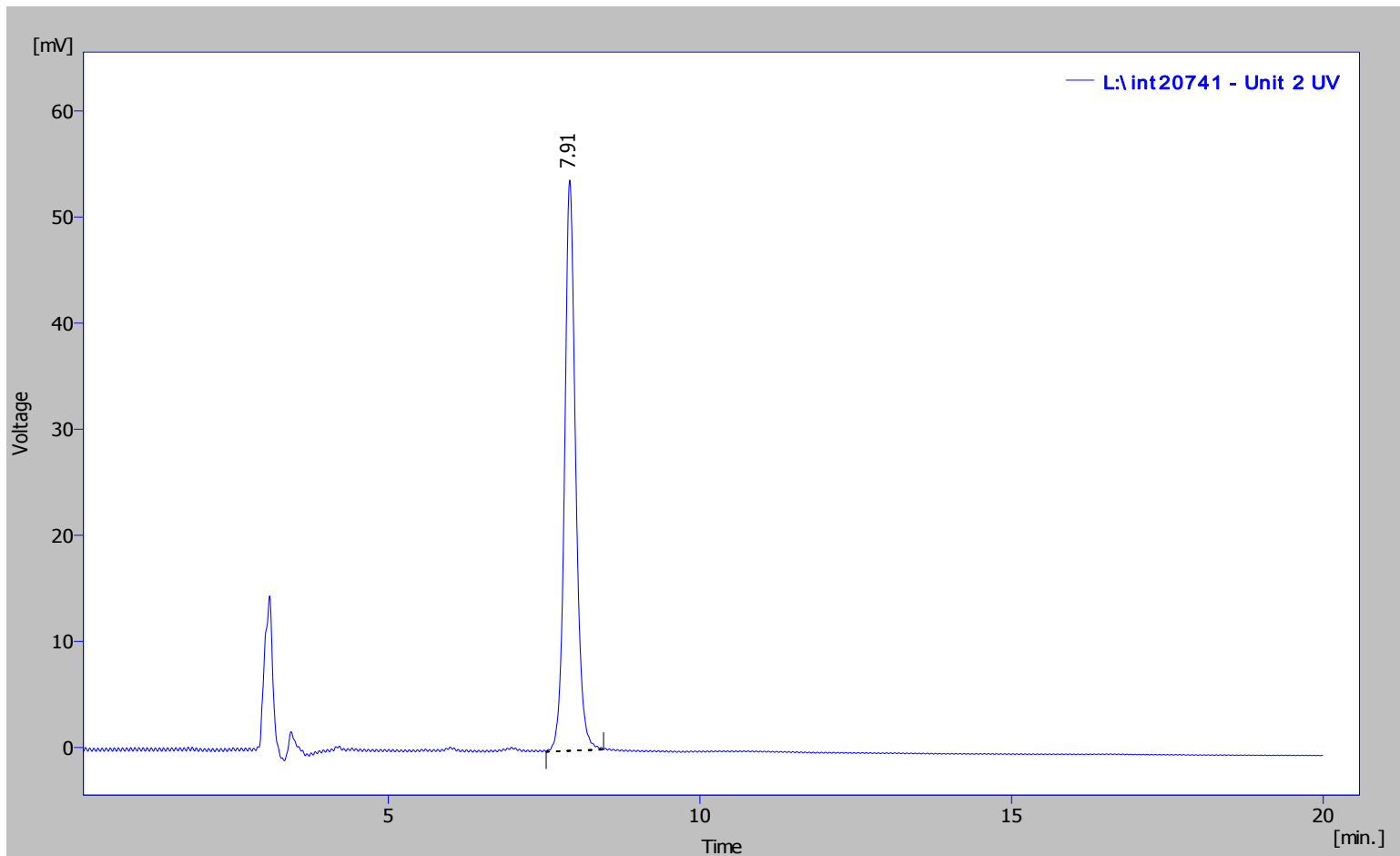
Result Table (Uncal - L:\int20741 - Unit 2 Radio)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		6.420	0.22	30.376	1.334	0.240	2537.098
2		7.400	0.22	30.736	1.461	0.263	4487.728
3		8.210	99.48	13776.784	551.144	99.302	3230.266
4		10.760	0.08	10.828	1.081	0.195	17767.532
		Total	100.00	13848.723	555.020	100.000	

MC-1389
2,6-Dichlorobenzoic acid, [carboxyl-14C]-
Lot 195-176-0395-A-20010821-DC

Chromatogram Info:

File Name	: L:\int20741	File Created	: 11/22/2013 9:27:49 AM
Origin	: Acquired, Acquisition started 10/25/2010 10:24:42 AM	Acquired Date	: 10/25/2010 10:44:42 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 14C material alone	Modified	: 11/22/2013 9:33 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 227nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



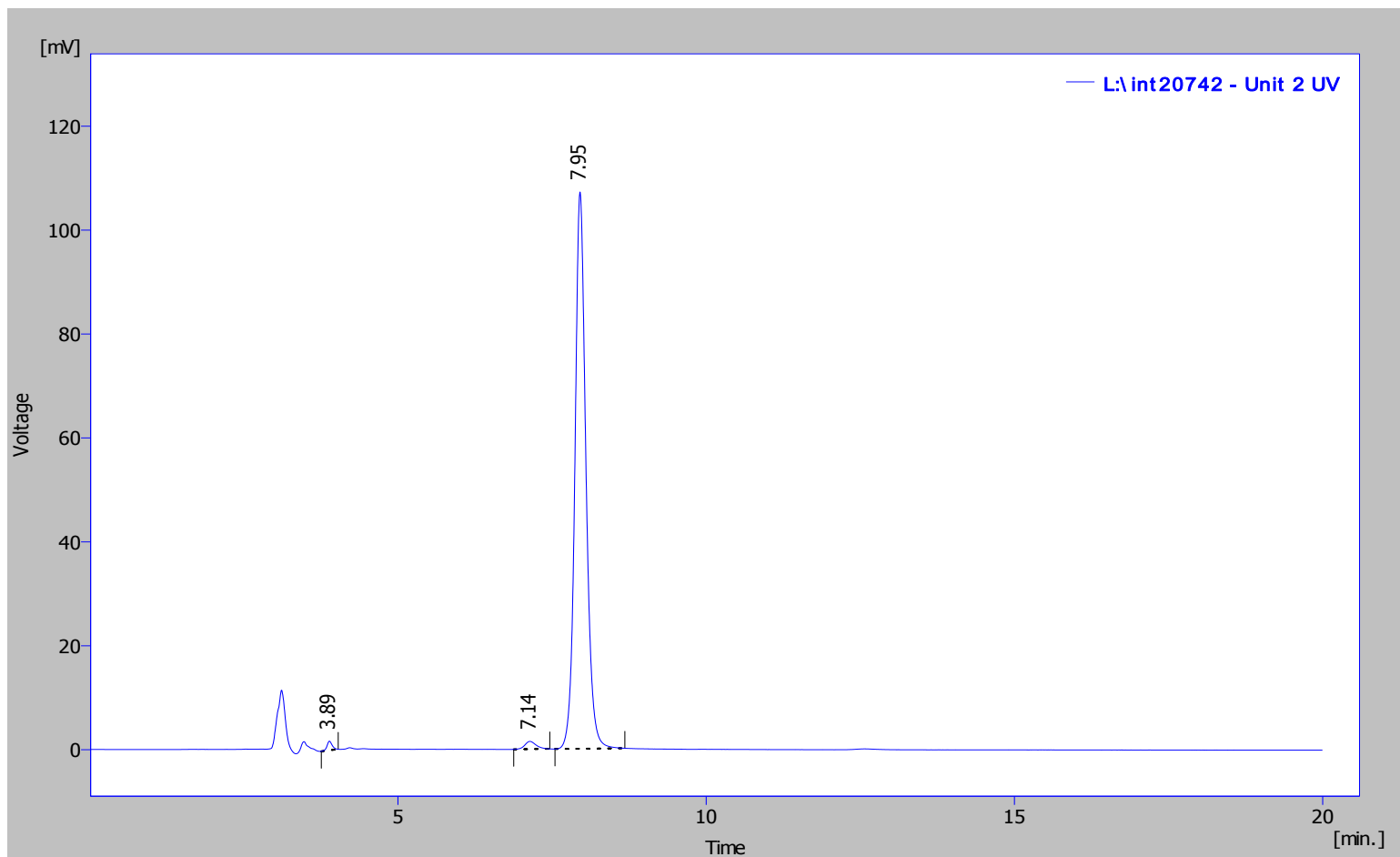
Result Table (Uncal - L:\int20741 - Unit 2 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		7.910	100.00	664.678	53.796	100.000	10312.878
		Total	100.00	664.678	53.796	100.000	

MC-1389
2,6-Dichlorobenzoic acid, [carboxyl-14C]-
Lot 195-176-0395-A-20010821-DC

Chromatogram Info:

File Name	: L:\int20742	File Created	: 11/22/2013 9:27:49 AM
Origin	: Acquired, Acquisition started 10/25/2010 11:09:23 AM	Acquired Date	: 10/25/2010 11:29:23 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of standard material alone	Modified	: 11/22/2013 9:33 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 227nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



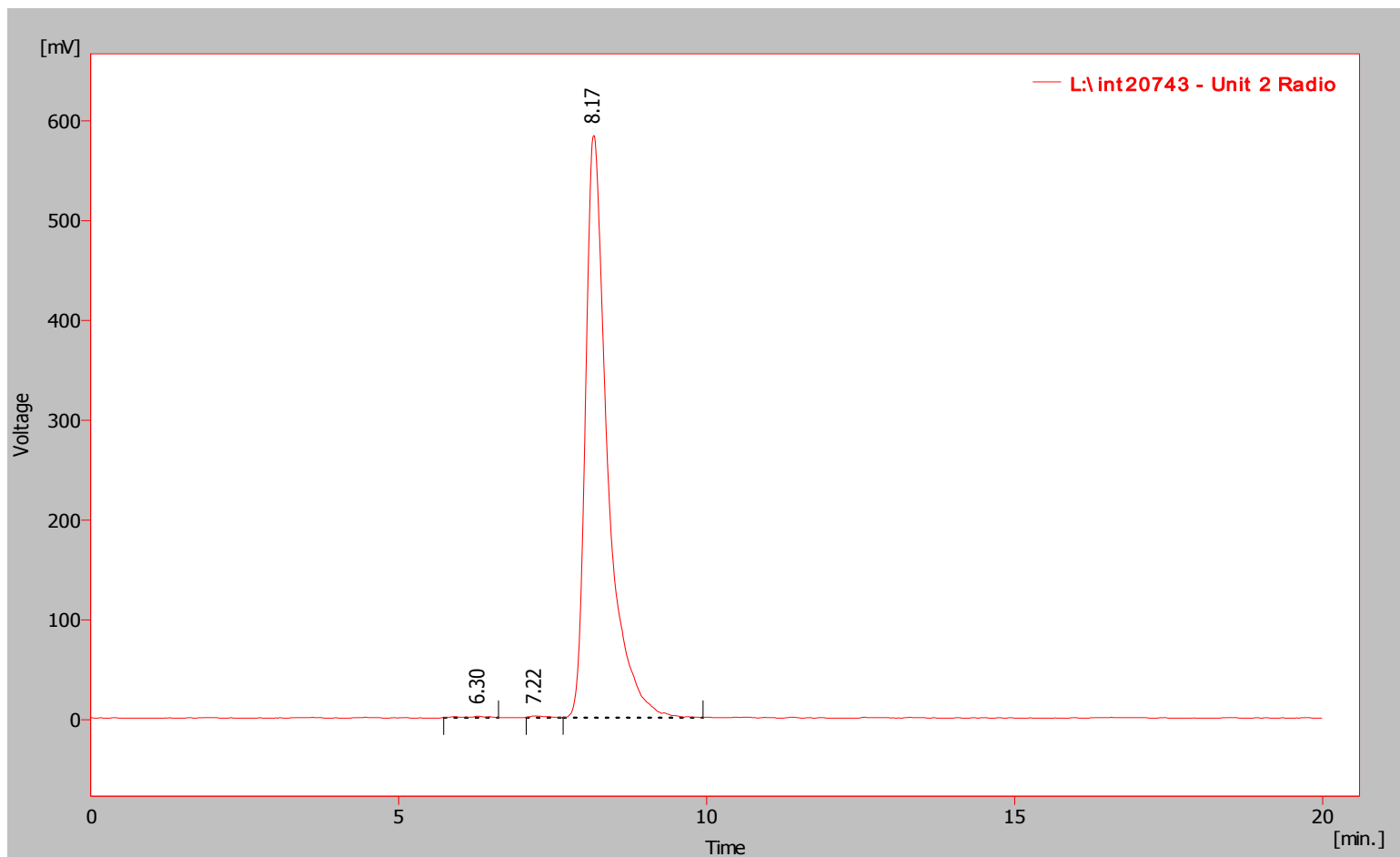
Result Table (Uncal - L:\int20742 - Unit 2 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		3.887	0.75	10.153	1.760	1.594	9607.067
2		7.140	1.39	18.864	1.495	1.354	7556.013
3		7.953	97.86	1329.425	107.162	97.051	10057.142
	Total		100.00	1358.443	110.418	100.000	

MC-1389
2,6-Dichlorobenzoic acid, [carboxyl-14C]-
Lot 195-176-0395-A-20010821-DC

Chromatogram Info:

File Name	: L:\int20743	File Created	: 11/22/2013 9:27:49 AM
Origin	: Acquired, Acquisition started 10/25/2010 11:32:25 AM	Acquired Date	: 10/25/2010 11:52:25 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: Radiochemical trace of 14C material co-injected with standard	Modified	: 11/22/2013 10:53 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: Radiochemical
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



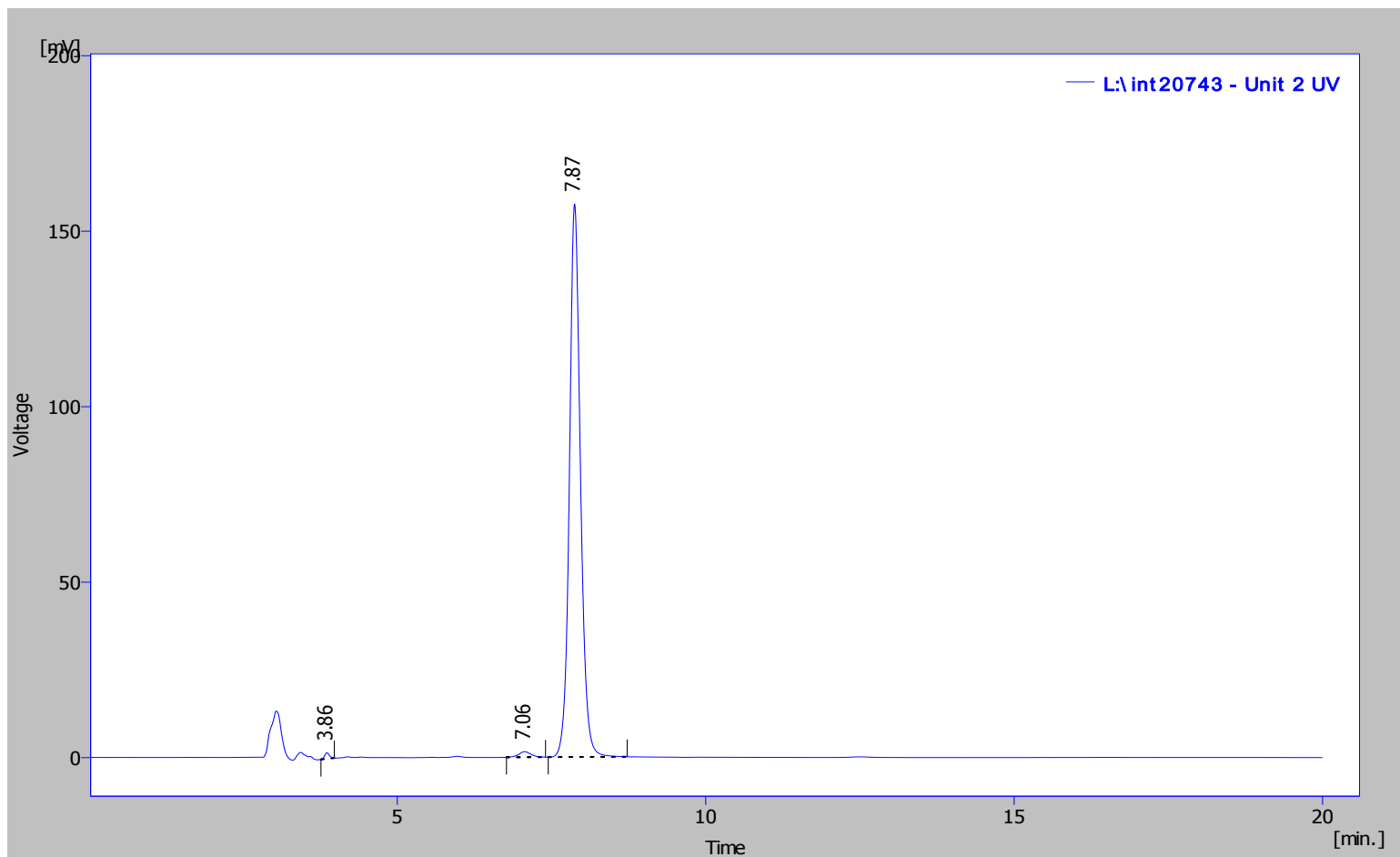
Result Table (Uncal - L:\int20743 - Unit 2 Radio)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		6.300	0.25	36.829	1.470	0.251	8589.164
2		7.220	0.23	33.985	1.822	0.311	2357.480
3		8.170	99.51	14508.354	583.278	99.439	3018.685
		Total	100.00	14579.167	586.570	100.000	

MC-1389
2,6-Dichlorobenzoic acid, [carboxyl-14C]-
Lot 195-176-0395-A-20010821-DC

Chromatogram Info:

File Name	: L:\int20743	File Created	: 11/22/2013 9:27:49 AM
Origin	: Acquired, Acquisition started 10/25/2010 11:32:25 AM	Acquired Date	: 10/25/2010 11:52:25 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of 14C material co-injected with standard	Modified	: 11/22/2013 10:54 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 227nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	: Impurities came from standard material		



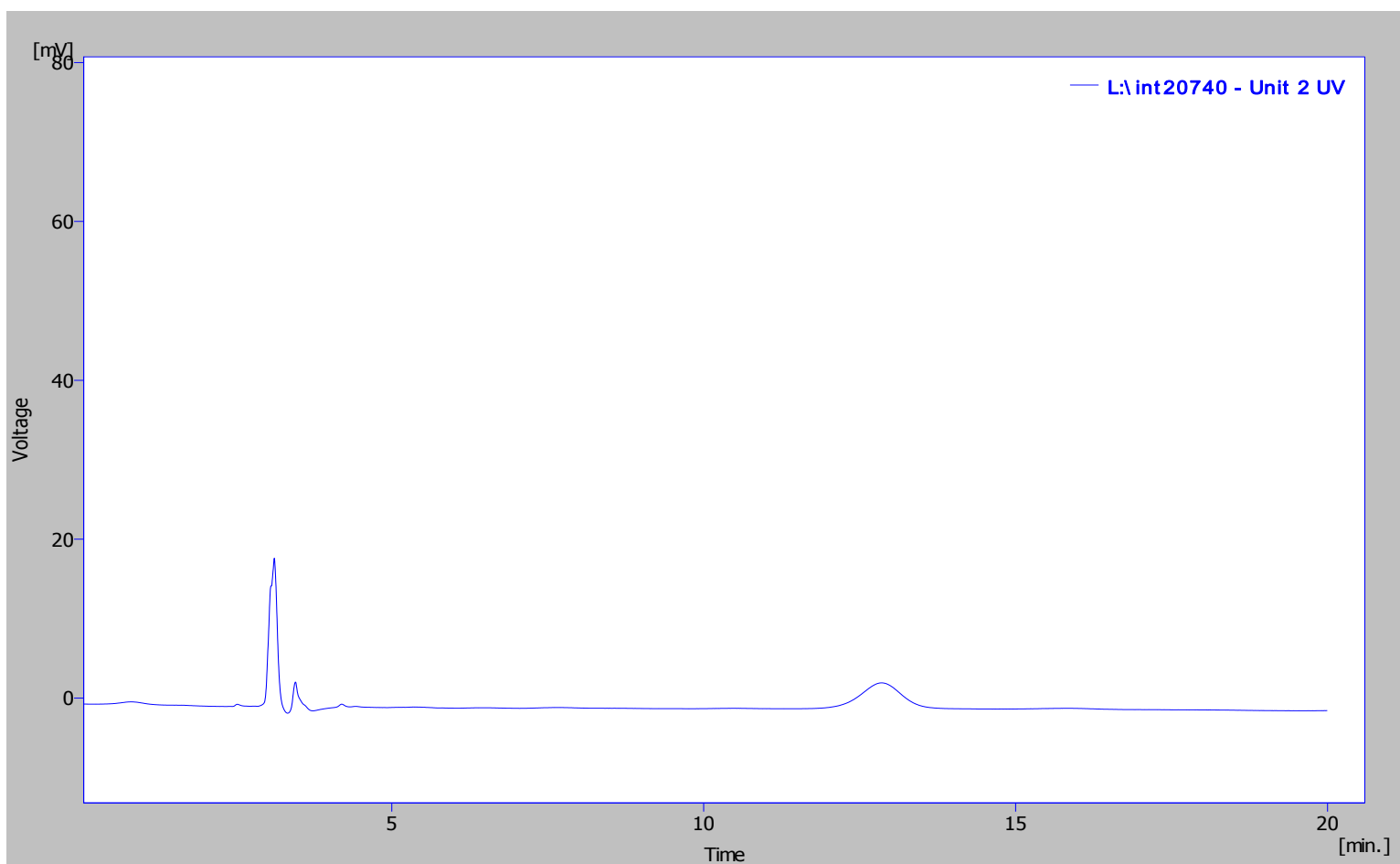
Result Table (Uncal - L:\int20743 - Unit 2 UV)

	Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
1		3.860	0.45	8.889	1.700	1.057	10989.557
2		7.063	1.10	21.859	1.586	0.987	6267.446
3		7.873	98.45	1958.596	157.520	97.956	9855.837
	Total		100.00	1989.345	160.807	100.000	

MC-1389
2,6-Dichlorobenzoic acid, [carboxyl-14C]-
Lot 195-176-0395-A-20010821-DC

Chromatogram Info:

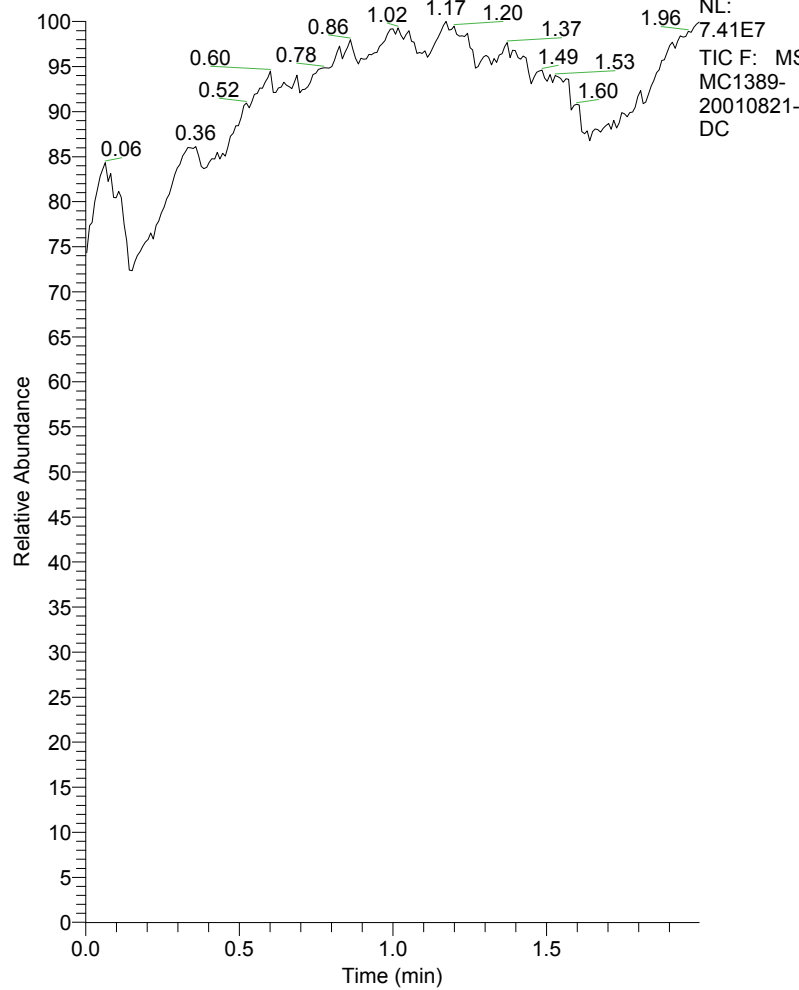
File Name	: L:\int20740	File Created	: 11/22/2013 9:27:49 AM
Origin	: Acquired, Acquisition started 10/25/2010 9:31:37 AM	Acquired Date	: 10/25/2010 9:51:37 AM
Project	: Test	By	: Administrator
Method	: unit2-20minrun	By	: Administrator
Description	: UV trace of blank injection	Modified	: 11/22/2013 9:32 AM
Created	: 8/8/2007 9:12 AM		
Column	:	Detection	: UV 227nm
Mobile Phase	:	Temperature	:
Flow Rate	:	Pressure	:
Note	:		



Result Table (Uncal - L:\int20740 - Unit 2 UV)

Compound Name	Reten. Time [min]	Area [%]	Area [mV.s]	Height [mV]	Height [%]	Efficiency [th.pl]
No peak to report						

RT: 0.00 - 2.00



MC1389-20010821-DC#1-231 RT: 0.00-2.00 AV:

T: - c Q3MS [151.00-231.00]

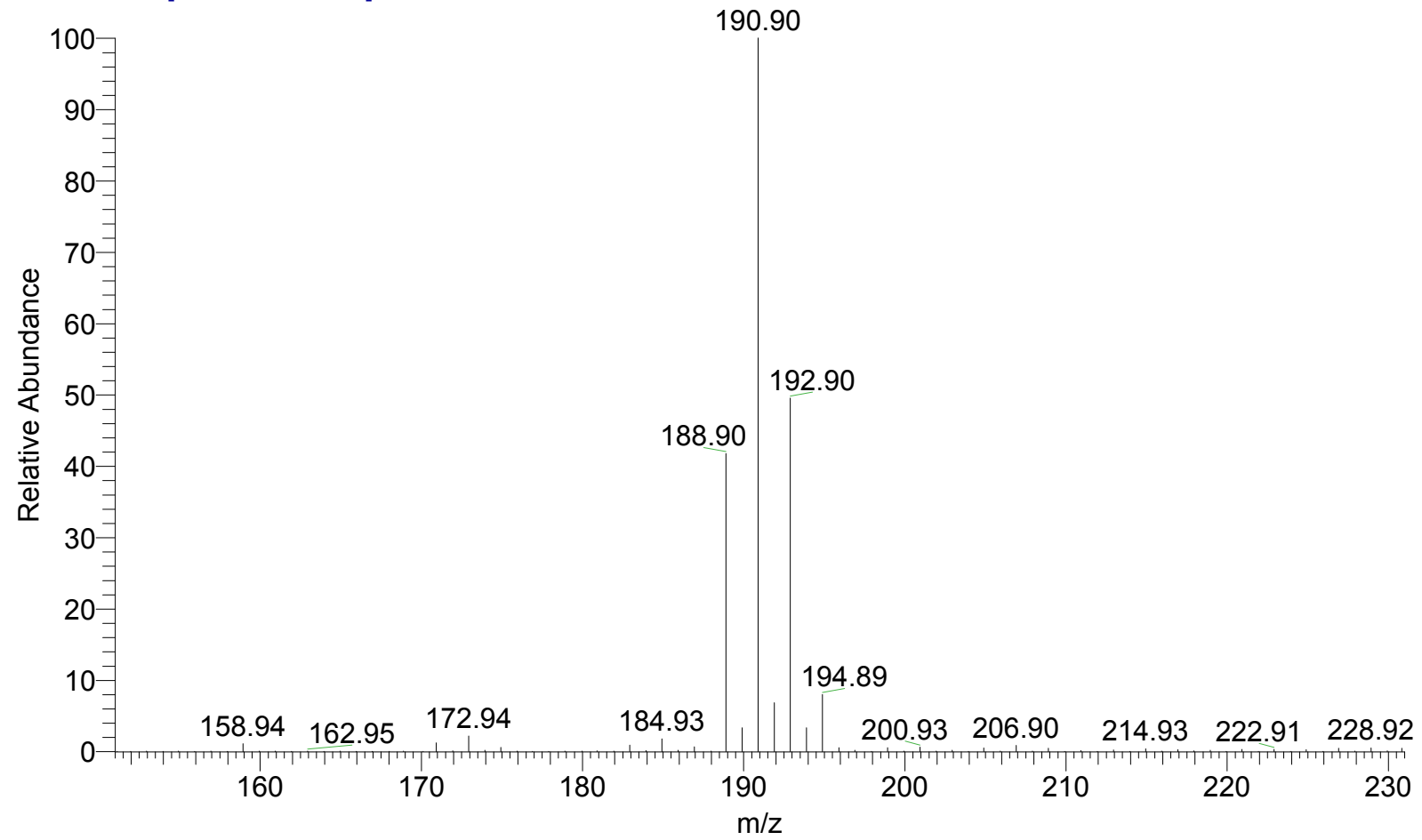
NL: 7.41E7
TIC F: MS
MC1389-20010821-DC

m/z = 186.08-200.00

m/z	Intensity	Relative
186.94	188712.2	0.64
187.97	19802.5	0.07
188.90	12227333.7	41.77
189.91	980179.8	3.35
190.90	29272473.3	100.00
191.90	1997689.2	6.82
192.90	14500507.7	49.54
193.90	971690.5	3.32
194.89	2335686.3	7.98
195.90	155942.7	0.53
196.90	53460.5	0.18
197.93	9014.7	0.03
198.93	162656.0	0.56
199.94	16819.3	0.06

MC1389-20010821-DC #1-231 RT: 0.00-2.00 AV: 231 NL: 2.93E7

T: - c Q3MS [151.00-231.00]



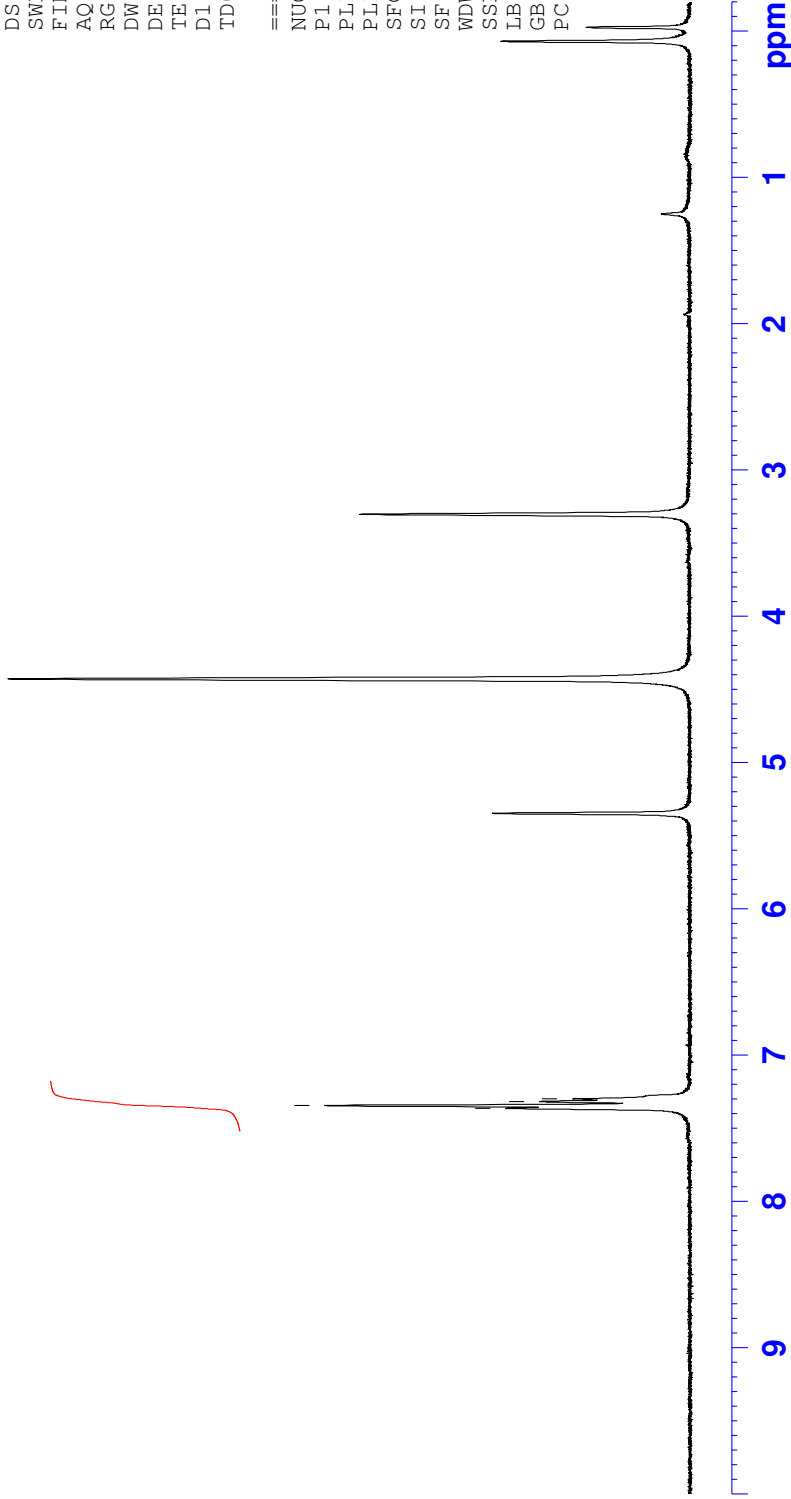
MC1389 1H NMR in CD2Cl2/MeOD
Batch 20010821-DC



7.364
7.345
7.318
7.299

NAME MC1389-20010821-DC
EXPNO 3
PROCNO 1
Date_ 20101026
Time 14.26
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 294.7 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 400.1308185 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00



3.00