Electronic Supplementary Material (ESI) for Organic & Biomolecular Chemistry. This journal is © The Royal Society of Chemistry 2017

### Total synthesis of 7-des-O-pivaloyl-7-O-benzylbryostatin 10

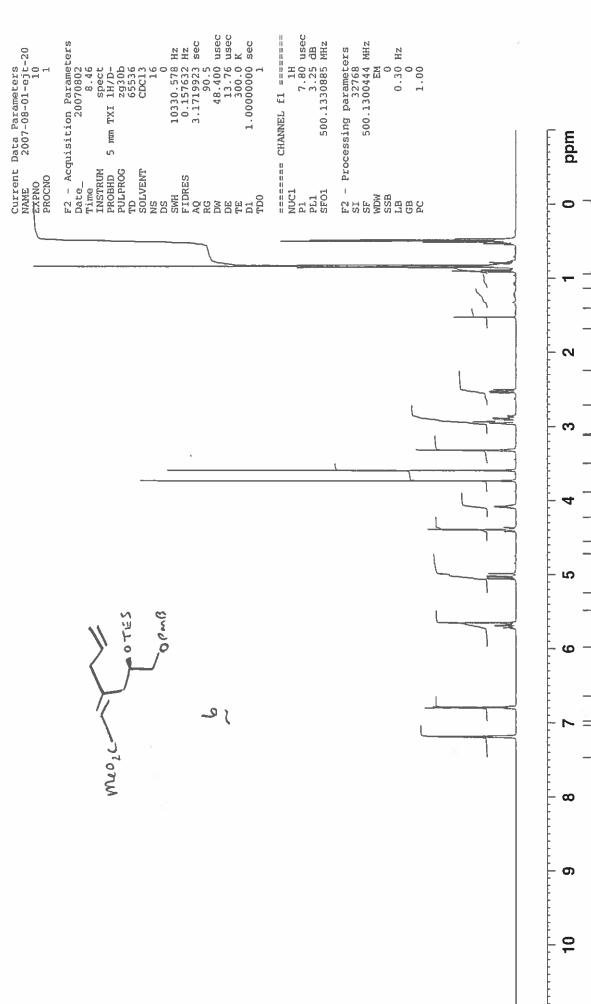
Simon Hardy, Anthony P. Green, Alan T. L. Lee and Eric J. Thomas

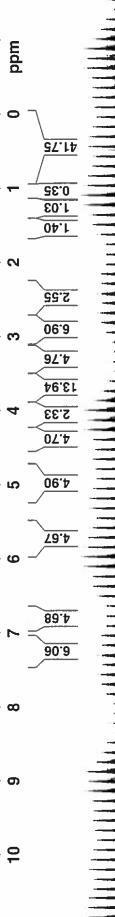
### Supplementary data

Copies of <sup>1</sup>H and <sup>13</sup>C NMR spectra.

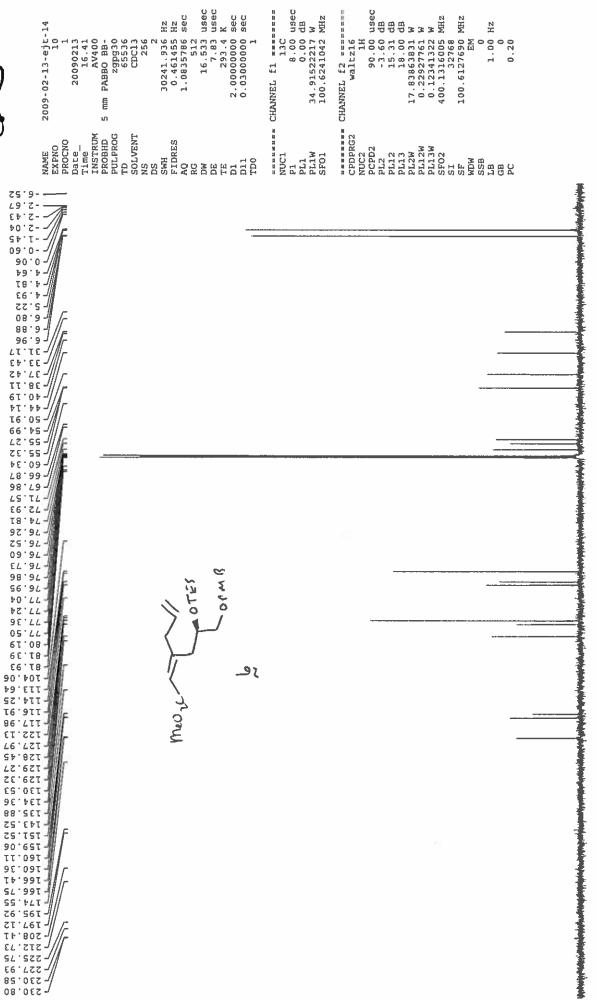
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mCARBON CDCI3 (e:\bruk400data\2009\Feb) ejt 14



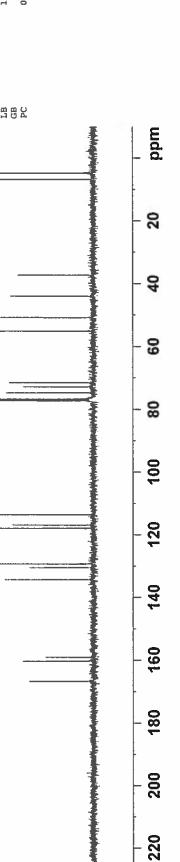
30241.936 Hz 0.461455 Hz 1.0835786 sec 512 16.533 Usec 7.83 Usec 293.4 K 2.0000000 sec

16.41 AV400 AV400 E9PG30 65536 CDC13

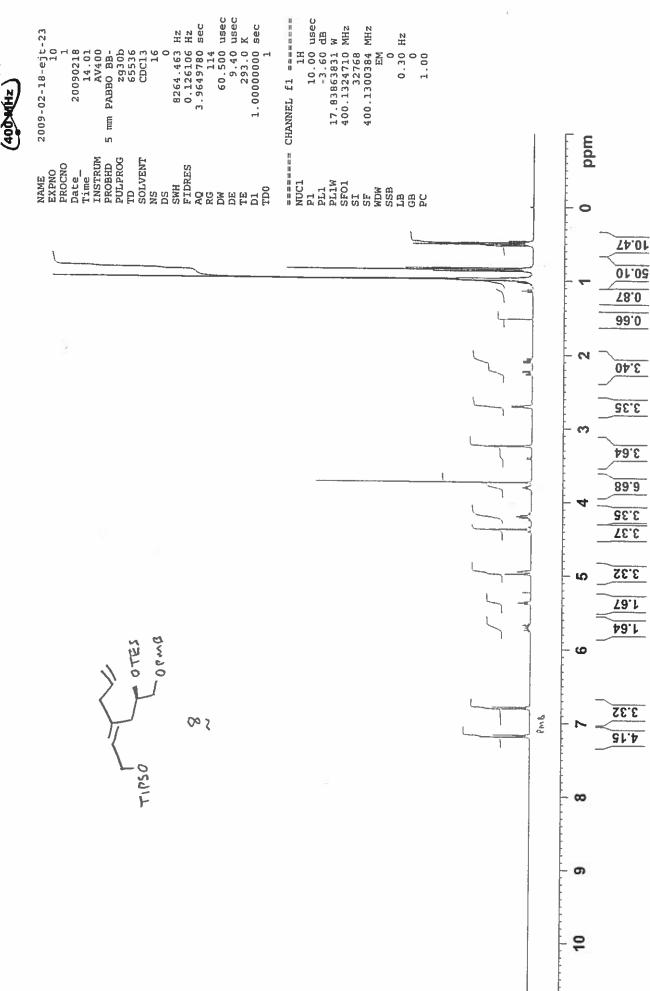
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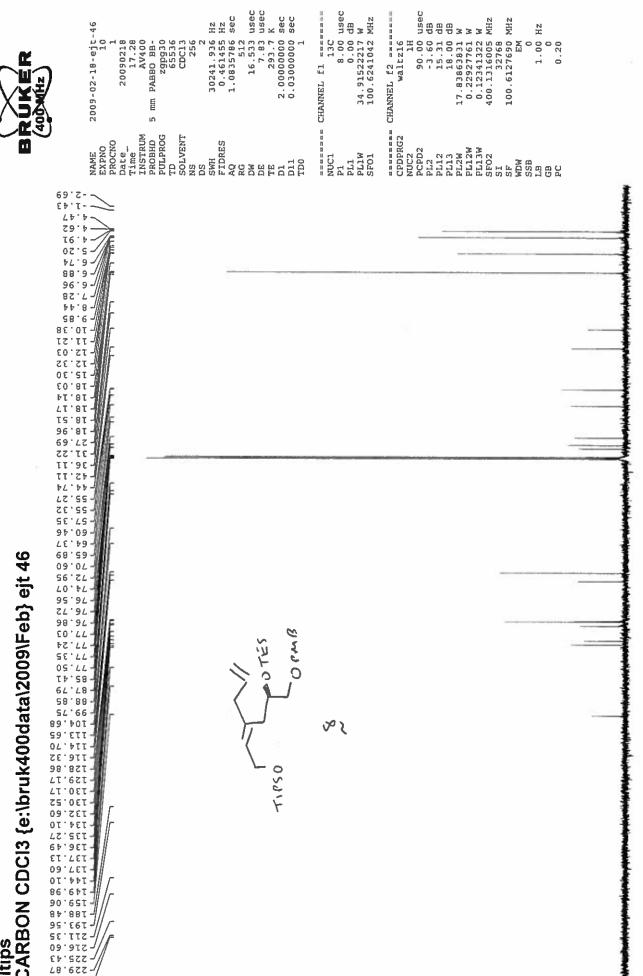
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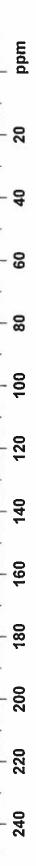


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247,31 230.43

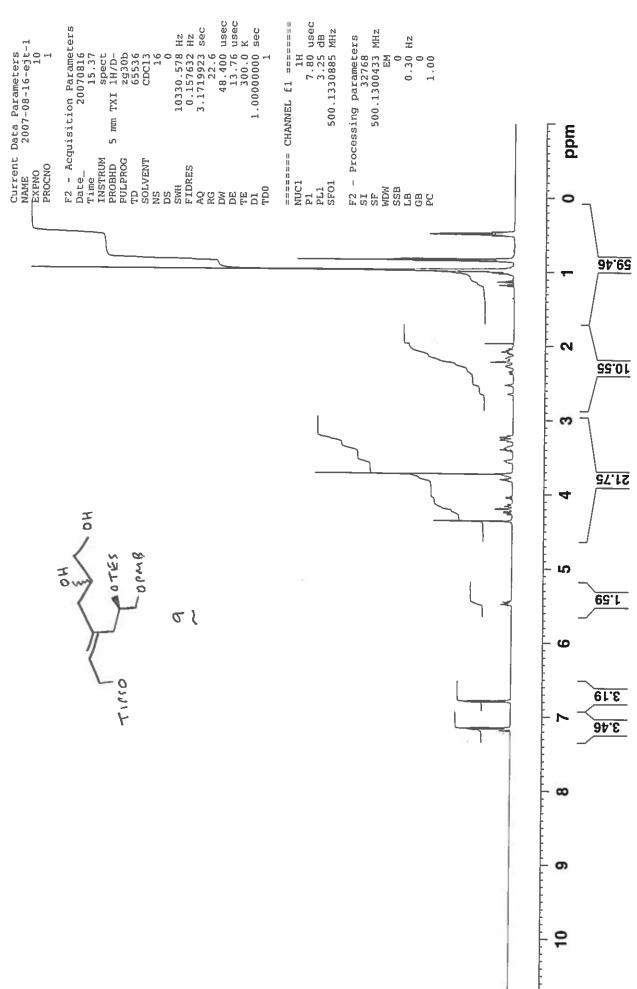


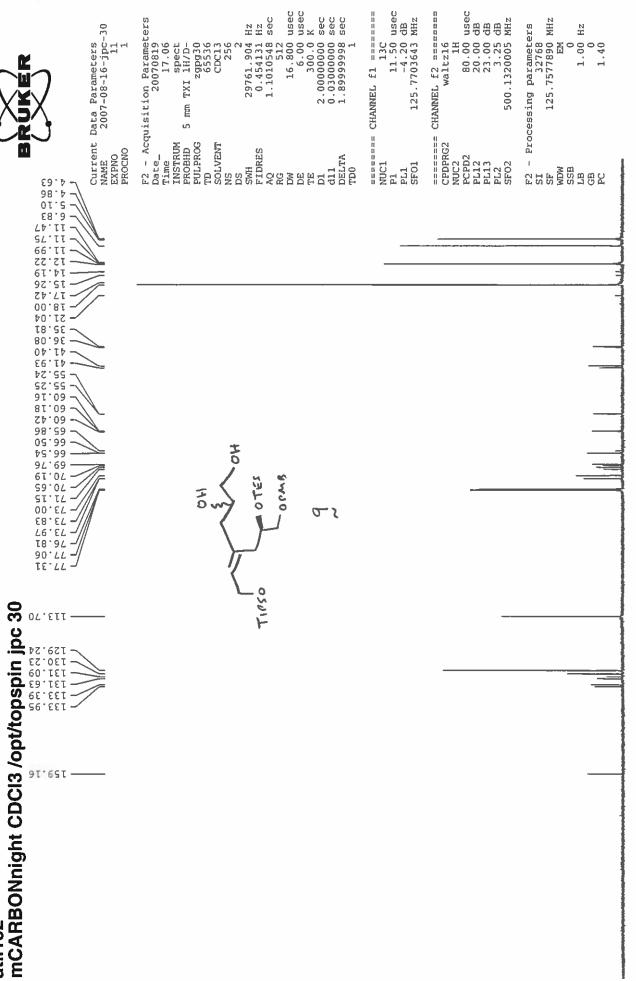




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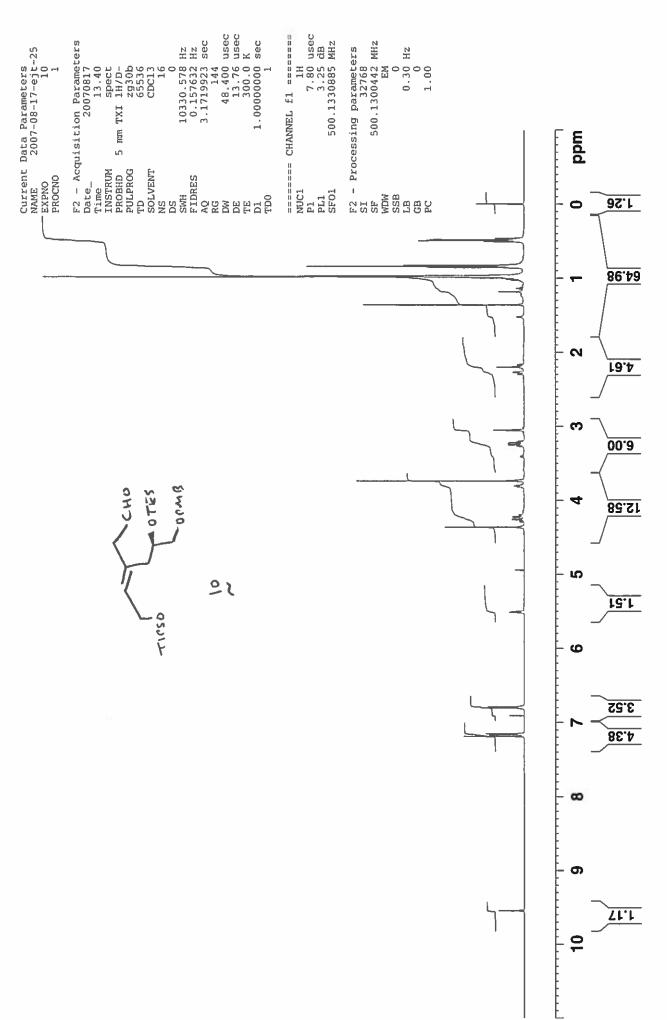




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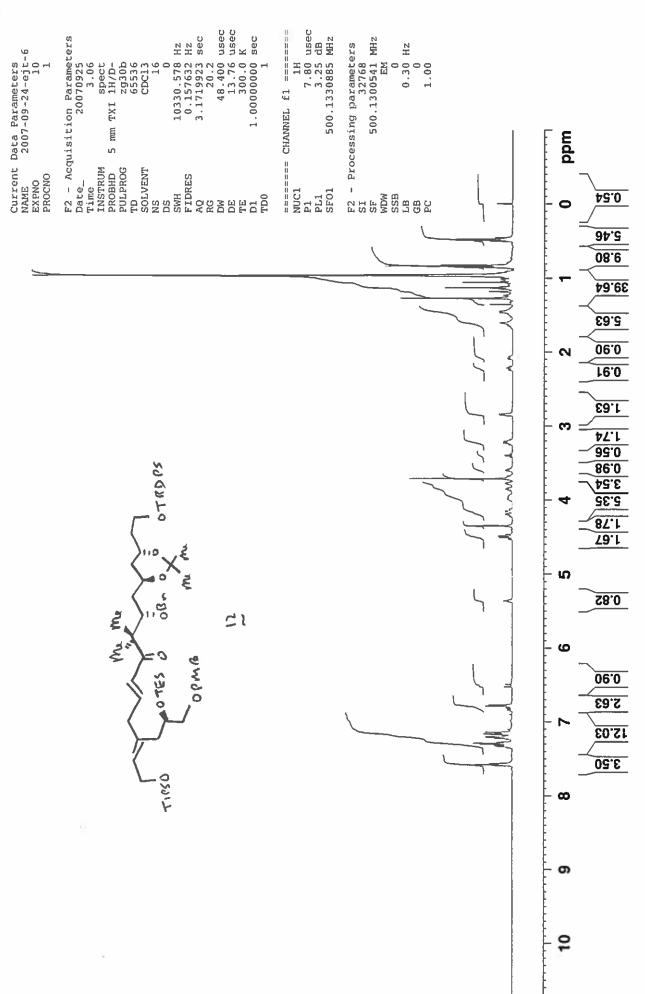




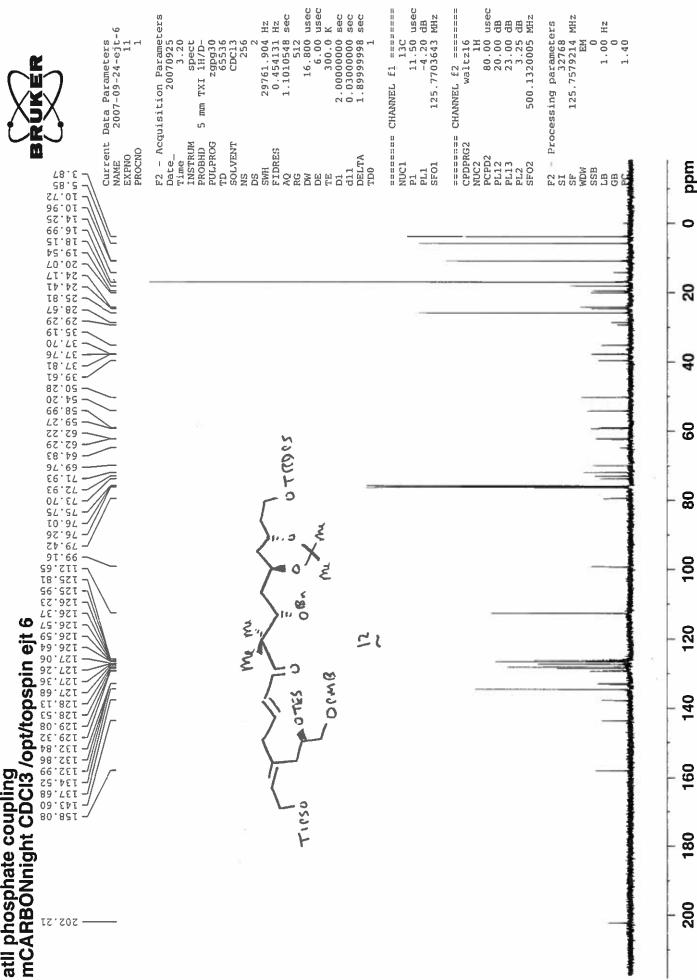


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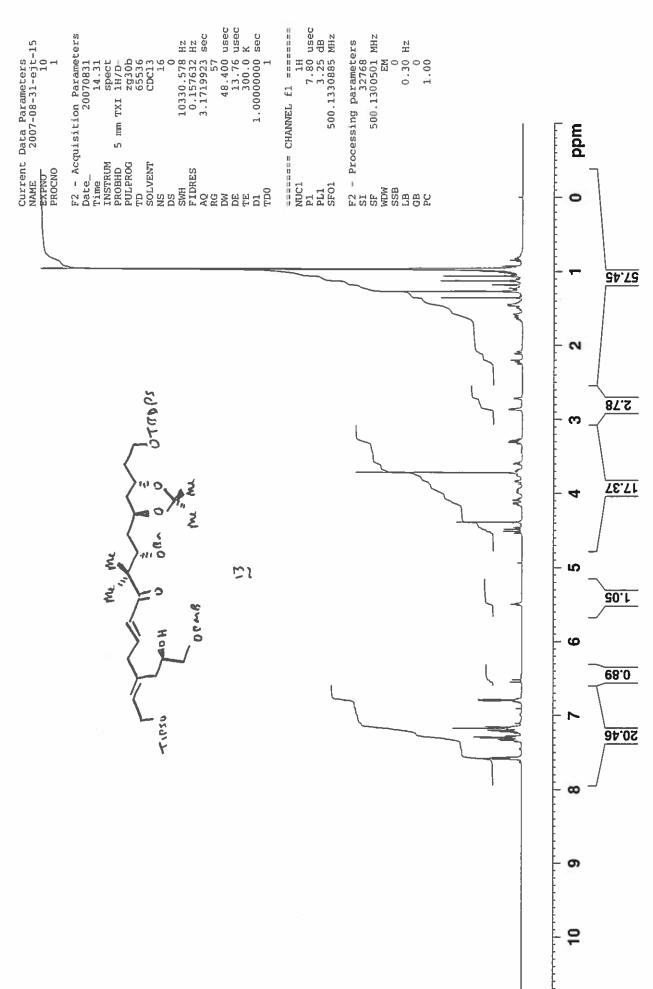


## atll phosphate coupling mCARBONnight CDCI3 /opt/topspin ejt 6

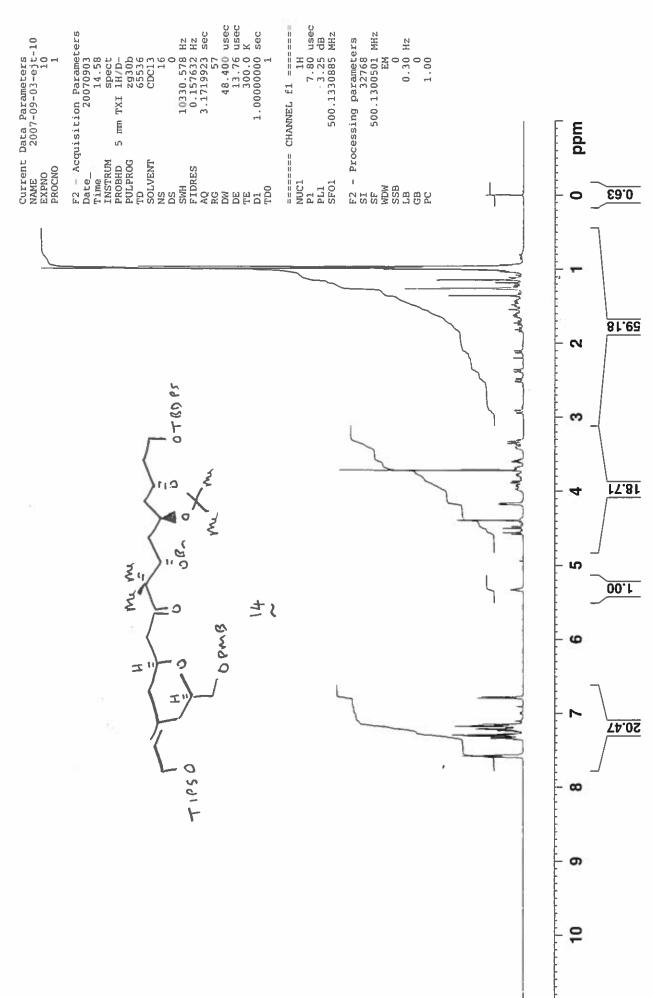


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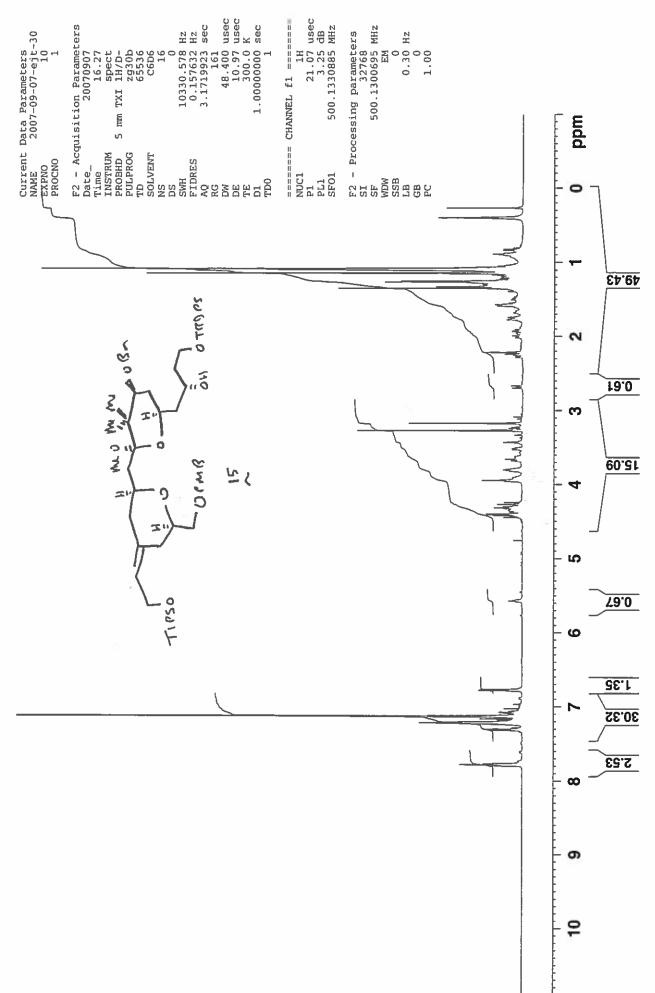




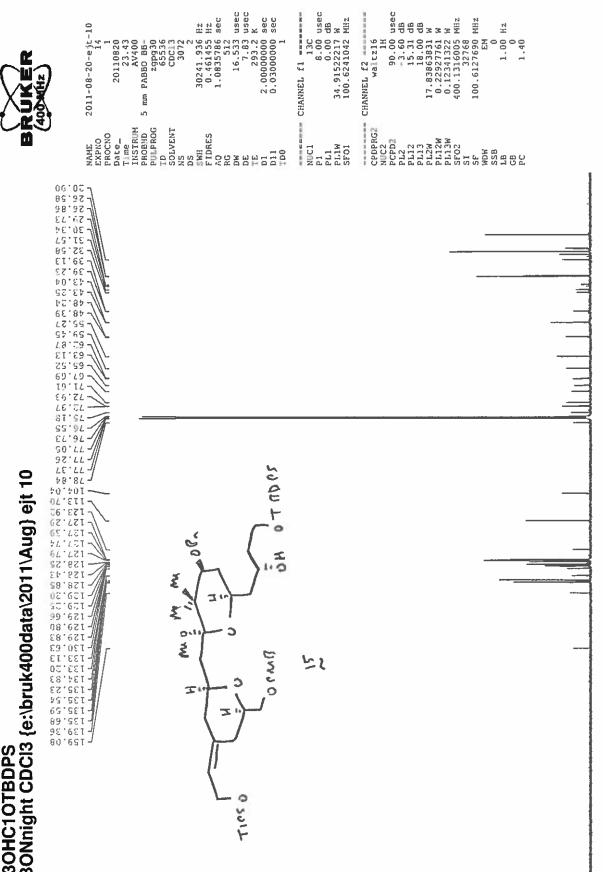


atil162/1 mPROTON C6D6 /opt/topspin ejt 30





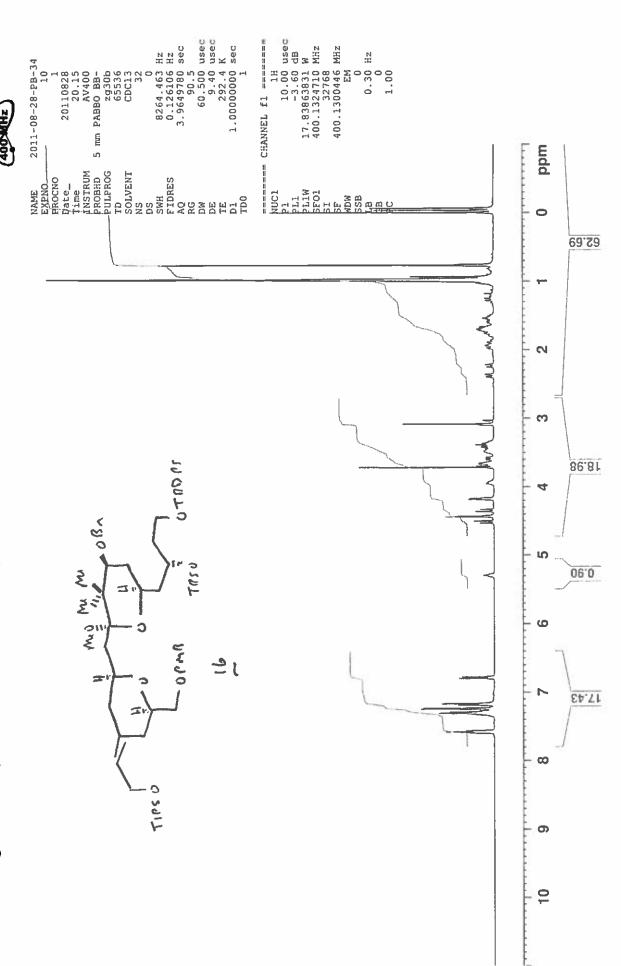
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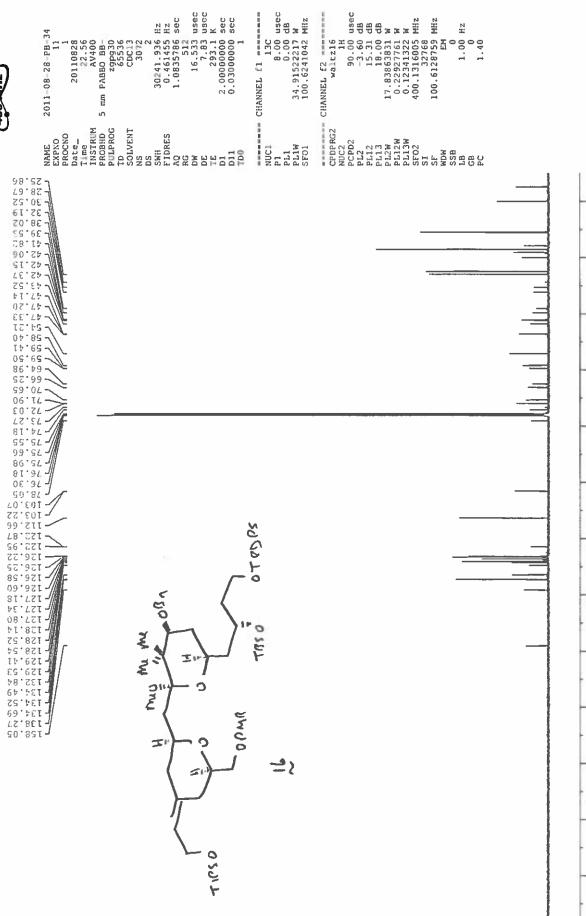
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c1otbdps mPROTONnight CDCl3 {e:\bruk400data\2011\Aug} PB 34



c1otbdps mCARBONnight CDCl3 {e:\bruk400data\2011\Aug} PB 34



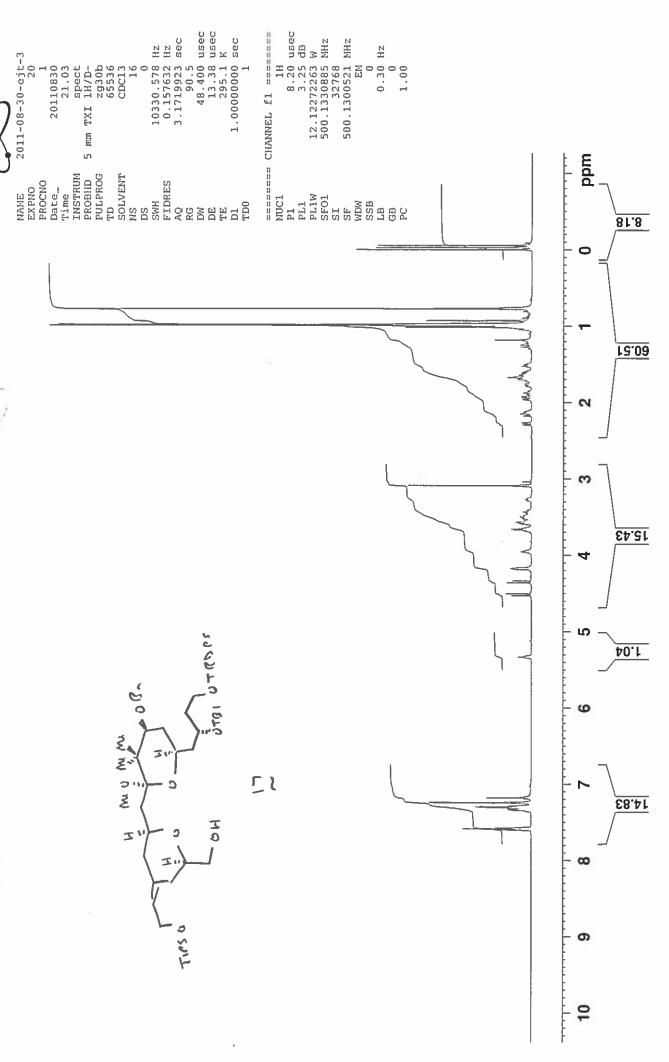
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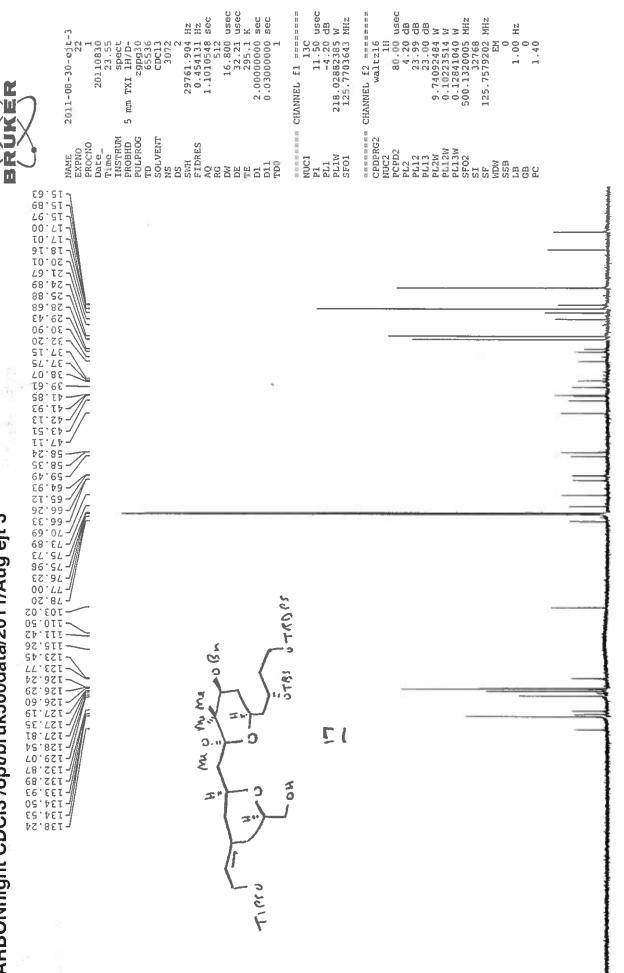


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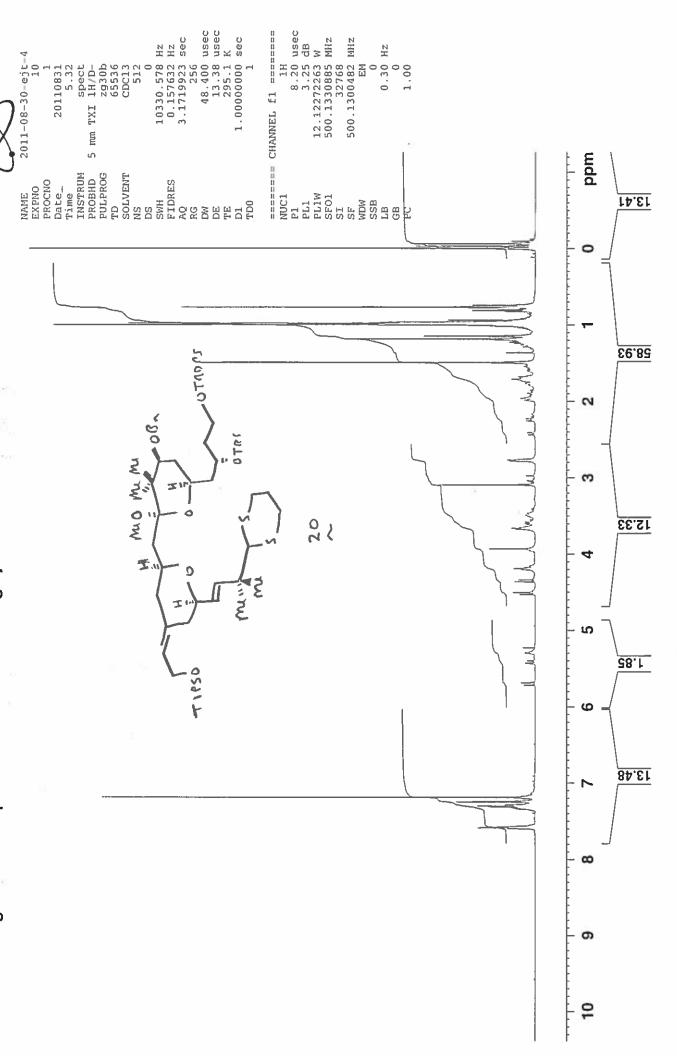
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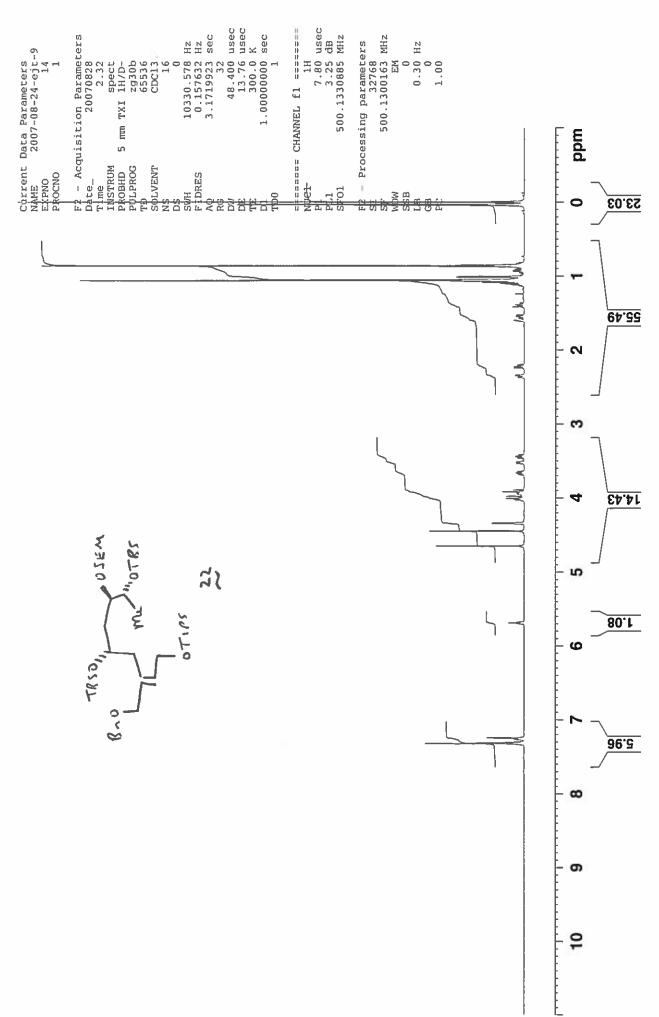


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SH323\_A mPROTONnight CDCl3 /opt/topspin ejt 9



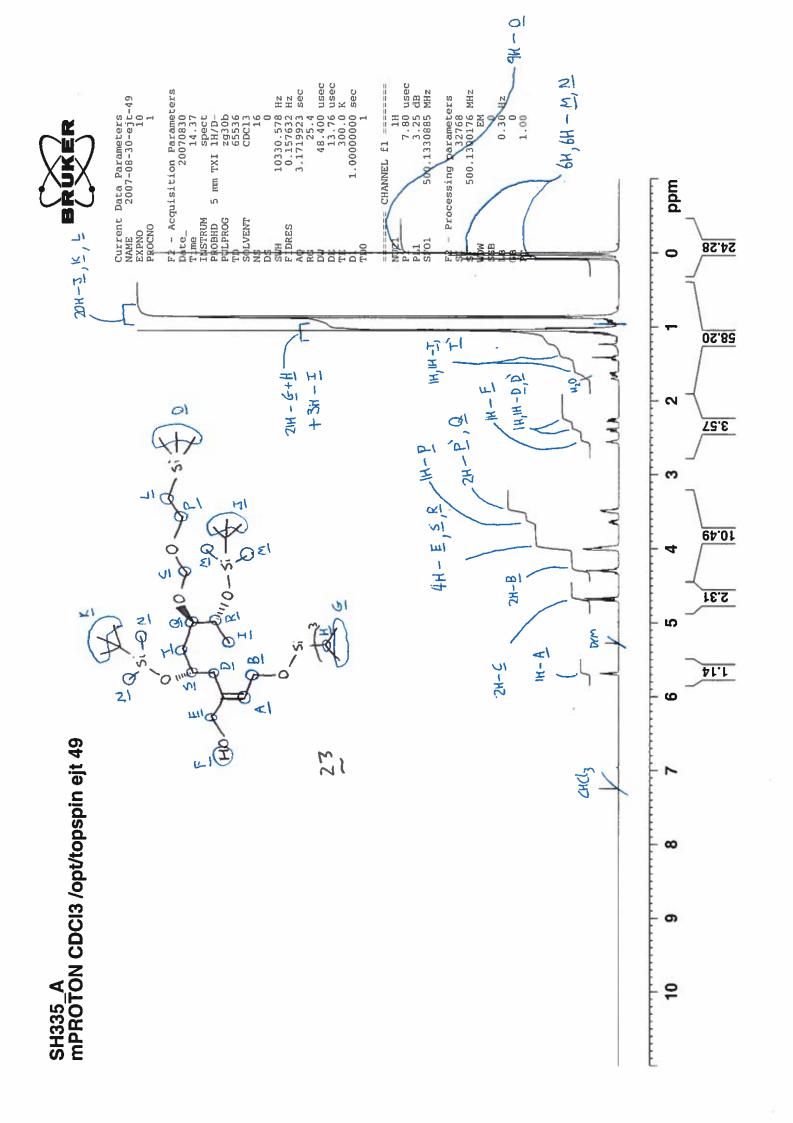


512 16.800 usec 6.00 usec 300.0 K waltz16 1H 80.00 usec 20.00 dB 23.00 dB 3.25 dB 500.1320005 MHz 29761.904 Hz 0.454131 Hz 1.1010548 sec 2.000000000 sec 0.03000000 sec 1.89999998 sec 11.50 usec -4.20 dB 125.7703643 MHz CHANNEL f1 ======= sesses CHANNEL £2 ====== - Processing parameters 32768 125.7576096 MHz HZ Current Data Parameters

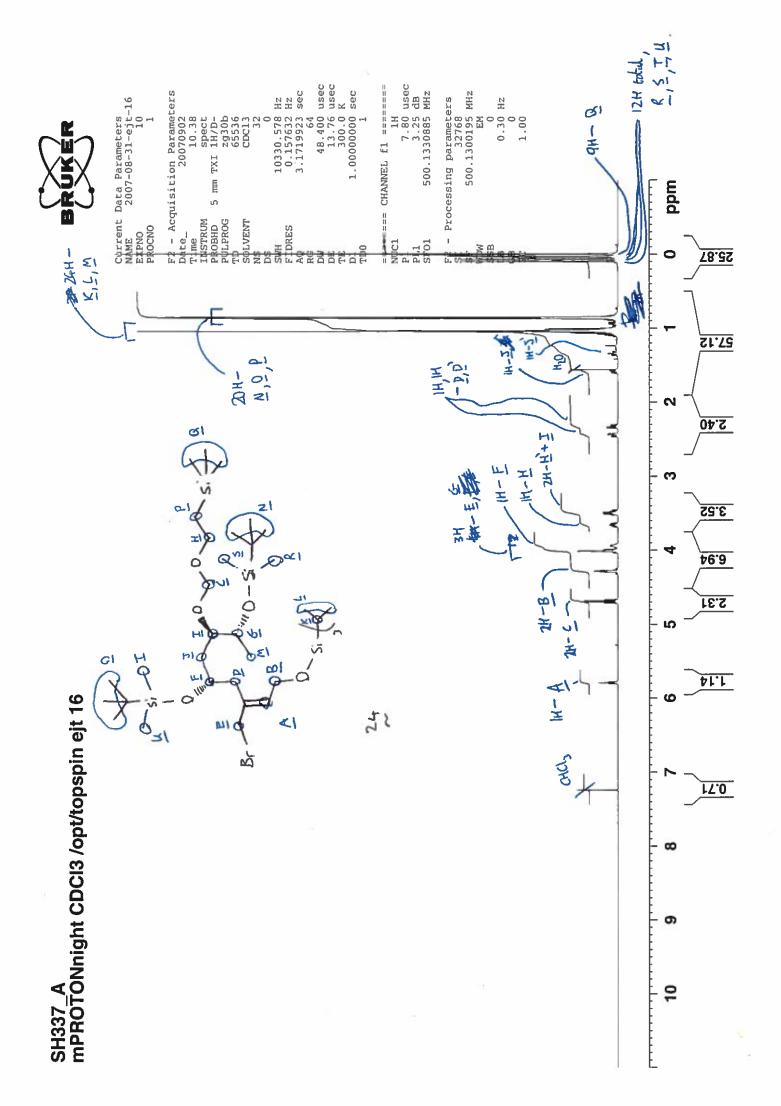
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EXPNO 13

PROCNO 1 1.00 TD SOLVENT NS DS SWH FIDRES CPDPRG2 NUC2 PCPD2 DELTA TD0 NUC1 PL1 SF01 mdd F2 SI SSF WDW SSB CB 00.0-64.2-80.6-05.6-65.6-0 14.72 06.72 06.72 74.61 58.81 54.61 56.51 2 71.65 — 60.76 — 8 ध्यं Da. \$\frac{1}{5}\text{18}\text{19} 9 80 12 \$5.76 -100 SH323\_A mCARBONnight CDCl3 /opt/topspin ejt 9 120 139.91 - 138.93 - 129.10 - 129.17 - 129.91 140 160 180 200

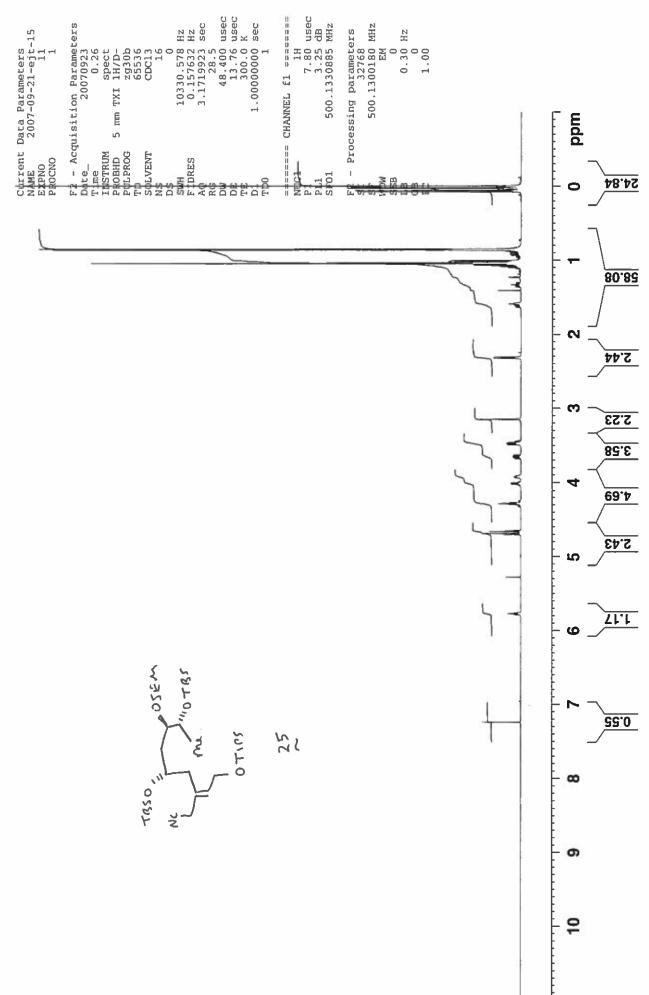


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NAME 2007-08-30-ejt-49
EXPNO 14
PROCNO 1 CPDPRG2 NUC2 PCPD2 PL12 PL13 PL3 mdd F2 -SI SF WDW SSB LB GB 19.5-82.6-15.6-O Kento 00:0- -84.95 15.75 76.75 76.75 76.75 76.75 76.75 77.75 77.75 77.75 77.75 77.75 77.75 77.75 77.75 77.75 77.75 77.75 77.75 77.75 20 6 E8.18 -27.87 -28.07 -12.87 -74. 9 23 80 92.76 -100 SH335\_A mCARBONnight CDCl3 /opt/topspin ejt 49 120 £5.1E1 -OI 140 LL'LET -160 180 200

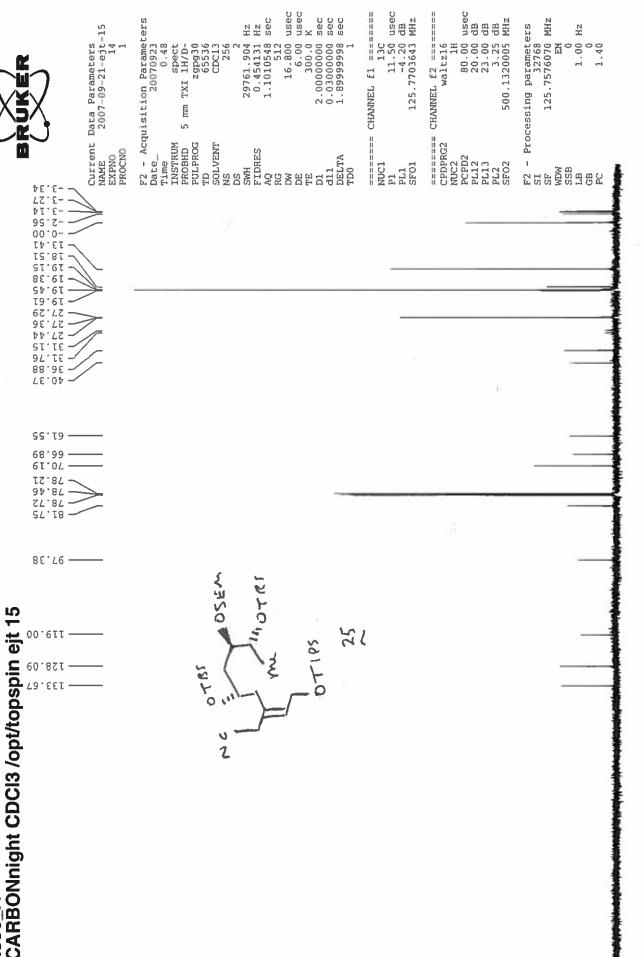


130 usec 11.50 usec -4.20 dB 29761.904 Hz 0.454131 Hz 1.1010548 sec 512 16.800 usec waltz16 1H 80.00 usec 20.00 dB 23.00 dB 3.25 dB 500.1320005 MHz 2.000000000 sec 0.03000000 sec 1.89999998 sec CHANNEL £1 ======= CHANNEL f2 ====== 32768 125.7576096 MHz EM 0 1.00 Hz 0 1.40 Current Data Parameters
NAME 2007-08-31-ejt-16
EXPNO 14
PROCNO 1 - Processing parameters Q1 6.00 125.7703643 લો 21 ======= ( NUC1 P1 PL1 SF01 CPDPRG2 NUC2 PCPD2 PL12 PL13 PL2 SF02 mdd SI SF WDW SSB CB CB ₽€.Ε-Hai 65.04 - 62.75 - 60.85 - 60.61 - 60.62 - 60.61 0 ml 20 71 40 0-1 9 07.18 66.87 74.87 74.87 74.87 74.87 74.87 74.87 8 11 12V 67.76 -100 اکد SH337\_A mCARBONnight CDCl3 /opt/topspin ejt 16 120 77 17.4E1 140 141 160 180 21 200





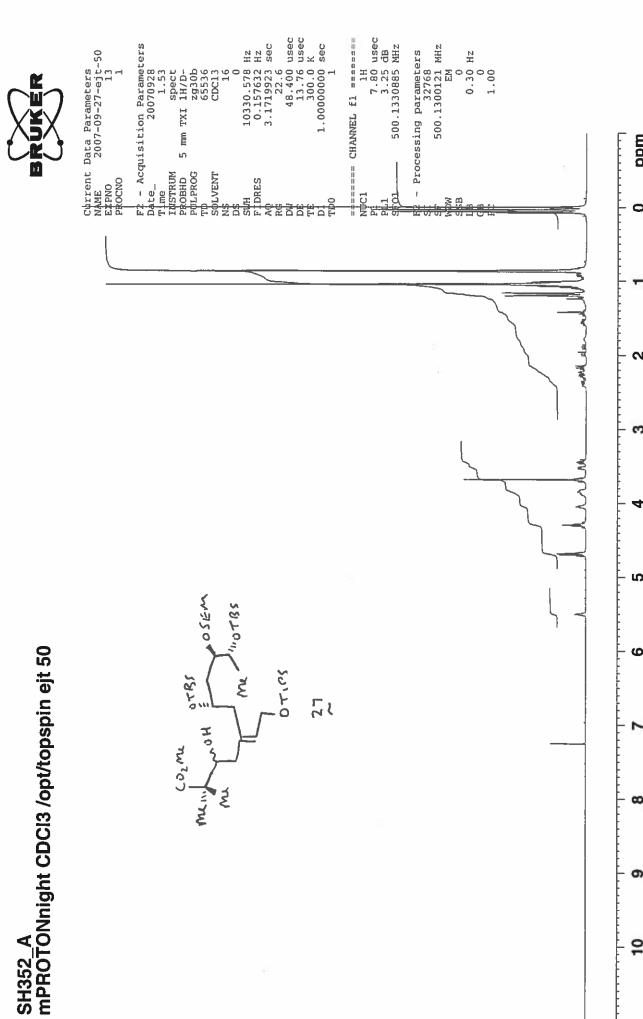
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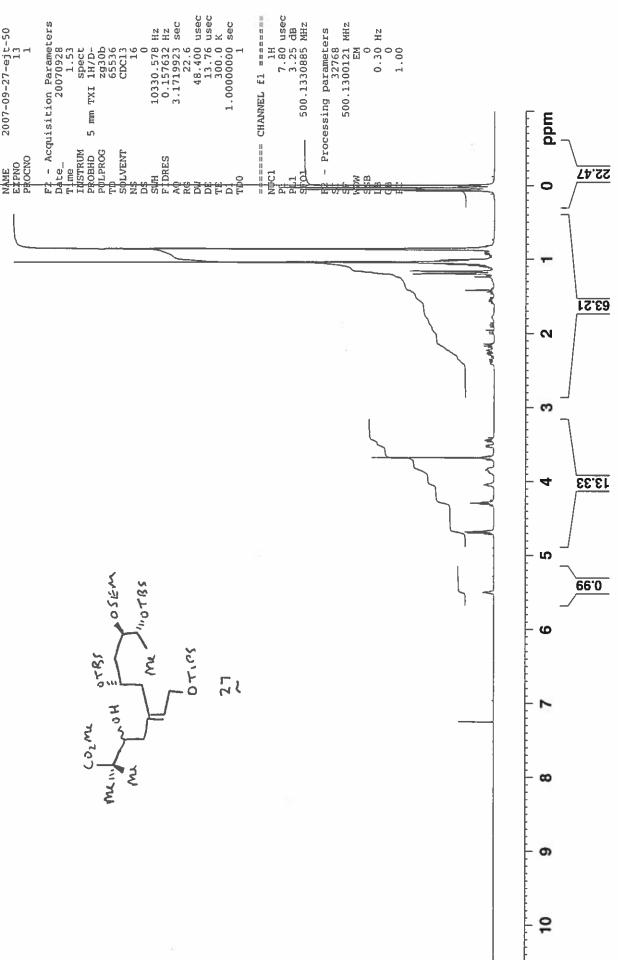


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10330.578 Hz 0.157632 Hz 3.1719923 sec 45.2 48.400 usec 13.76 usec 300.0 K 1H 7.80 usec 3.25 dB 500.1330885 MHz ===== CHANNEL fl ======= - Processing parameters 32768 500.1300167 MHz 0.30 Hz 0.1.00 Current Data Parameters
NAME 2007-09-14-ejt-13
EXPNO 10
PROCNO 1 ppm 22.56 0 97 E1.29 N 3 4 79.6 10 <u>91.1</u> 9 0 SH343\_A mPROTON CDCl3 /opt/topspin ejt 13 97.0 8 တ 4۲.0 10





29761.904 Hz 0.454131 Hz 1.1010548 sec 512 16.800 usec 6.00 usec 300.0 2.000000000 sec 0.030000000 sec 1.89999998 sec CHANNEL fl ====== Current Data Parameters NAME 2007-09-27-ejt-50 FYDNO 12 - Processing parameters 32768 125.7576076 MHz waltz16 1H 80.00 u 20.00 d 23.00 d 3.25 d 500.1320005 M 13C 11.50 u -4.20 c 125.7703643 M 1.00 ====== CHANNEL f2 CPDPRG2 NAME EXPNO PROCNO AO RG DW DE TE D1 d11 DELTA PL12 PL13 PL2 SF02 F2 -SI SF WDW SSB LB GB TV : ET | TV : E \$5.8\$ -73.88 27.18 15.58 26.93 07.93 70.22 70.18 12.87 ~ 74.27 ~ 98.47 ~ 52.07 ~ OSEM 1110TRS 72.76 42.76 28.18 27.18 47.87 57.87 STAS SH352 A mCARBONnight CDCI3 /opt/topspin ejt 50 ٤ 52 TOU M. W.

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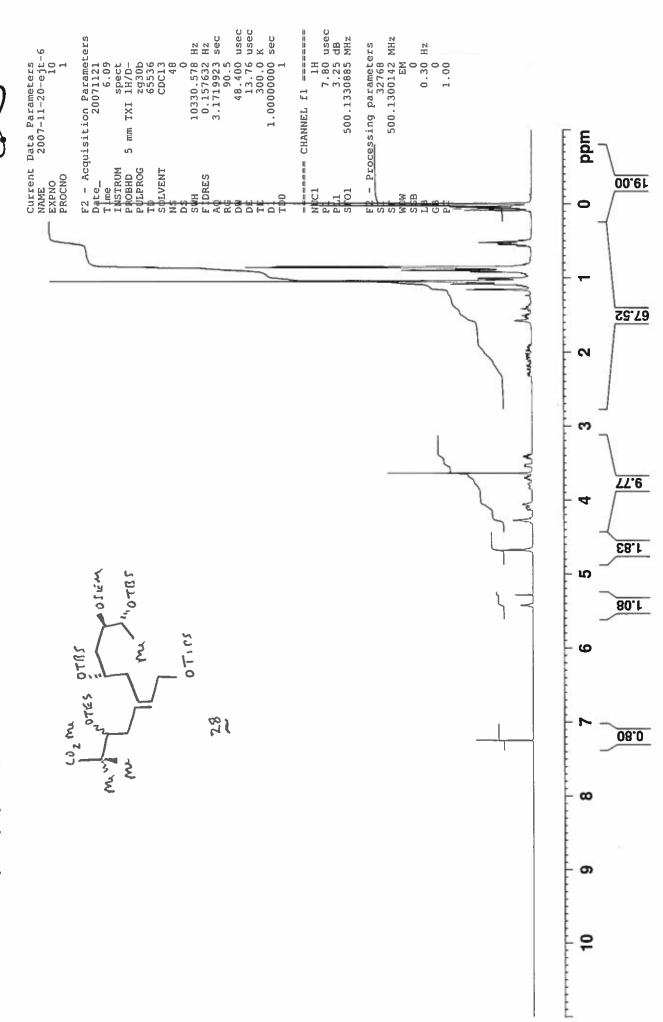
120

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SH383\_A HMBC CDCl3 /opt/topspin ejt 6



512 16.800 usec 6.00 usec 300.0 K 2.00000000 sec 0.03000000 sec 1.89999998 sec - Processing parameters Current Data Parameters
NAME 2007-11-21-ejt-37
EXPNO 11
PROCNO 1 waltz16 1H 180.00 20.00 23.00 23.00 500.1320005 N 32768 125.7576078 N 1.00 CHANNEL f2 CHANNEL NUC1 P1 PL1 SF01 CPDPRG2 NUC2 PCPD2 PL12 PL13 PL2 SFO2 ST ST WDW WDW SSB CB 00.0-95.99 ~ TT:00.0L ~ TOZ:0L ~ T0Z:0L ~ T0Z:0 OSEM 0765 SH383 A mCARBONnight CDCi3 /opt/topspin ejt 37 `₹ oths OTIPE O TES 200 ಕ P. 1

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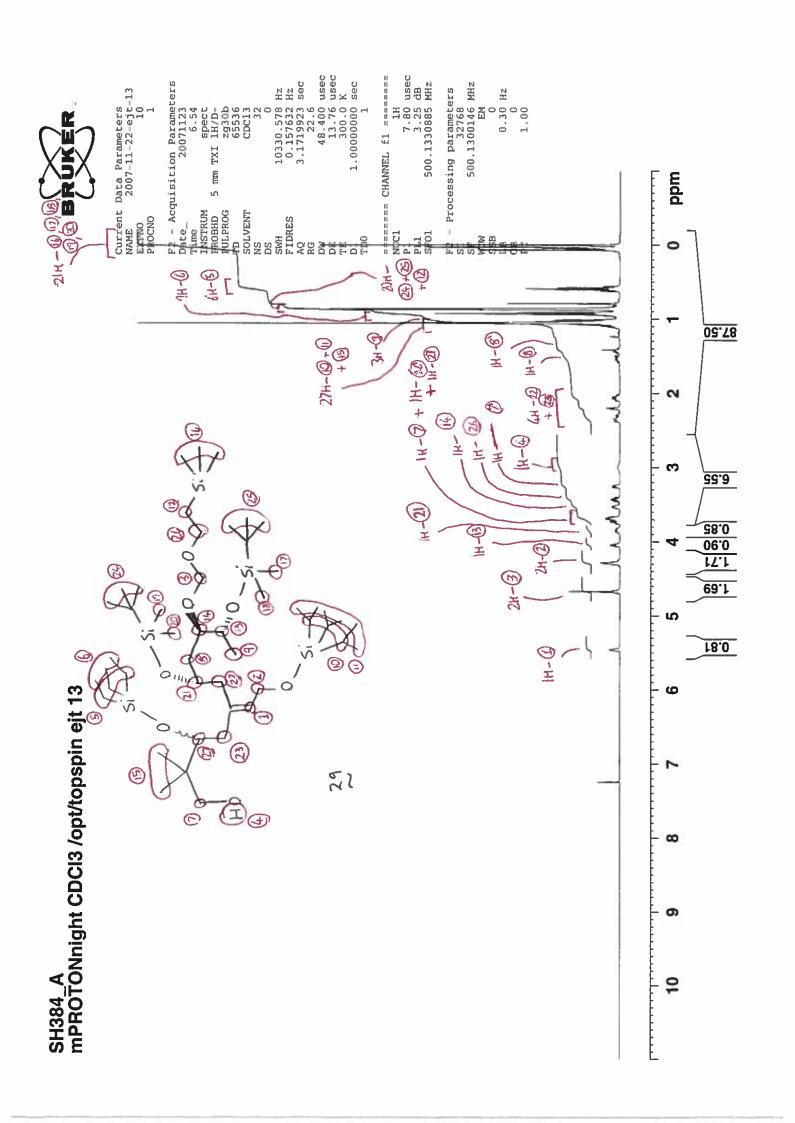
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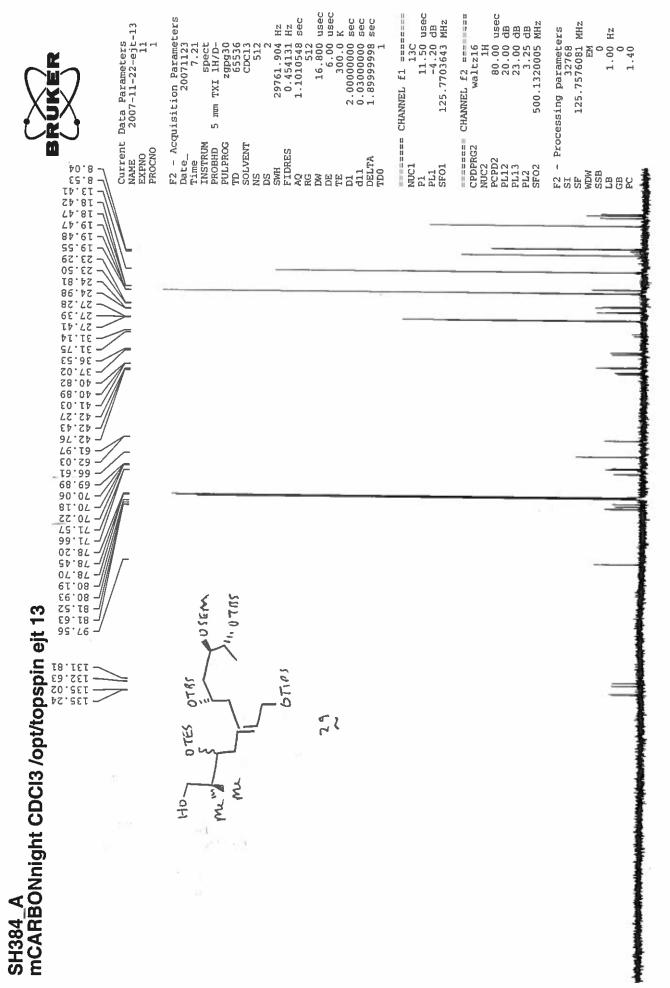
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140

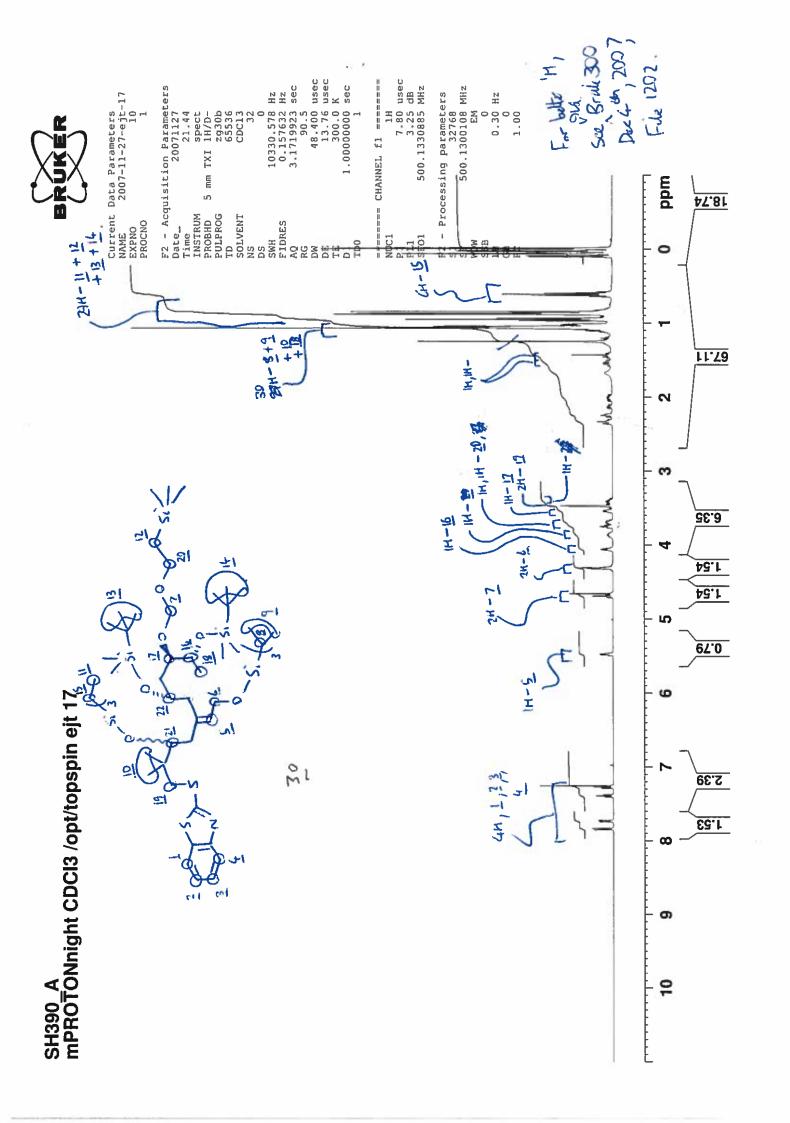
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180

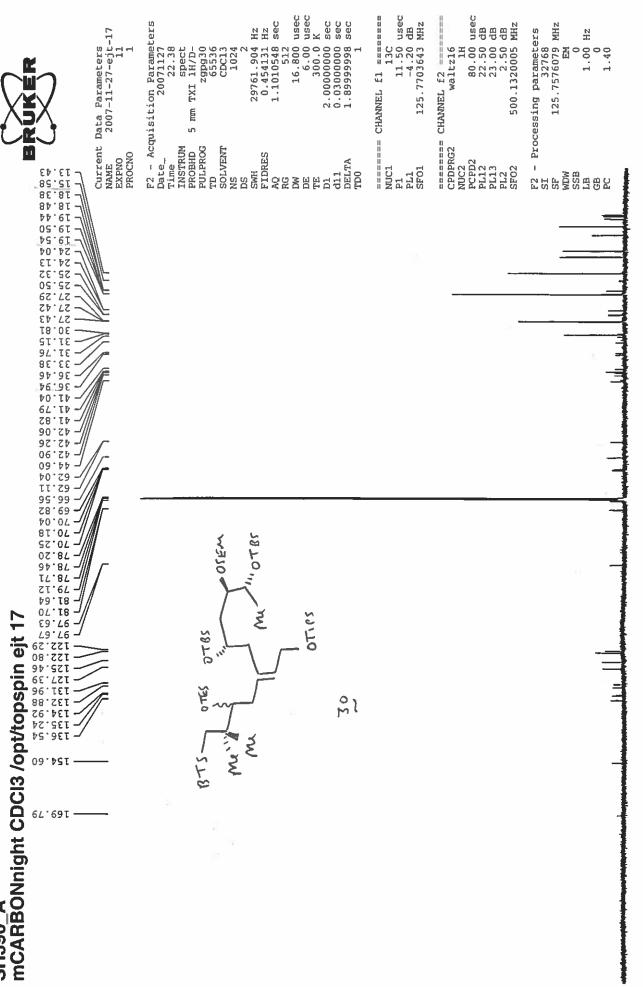




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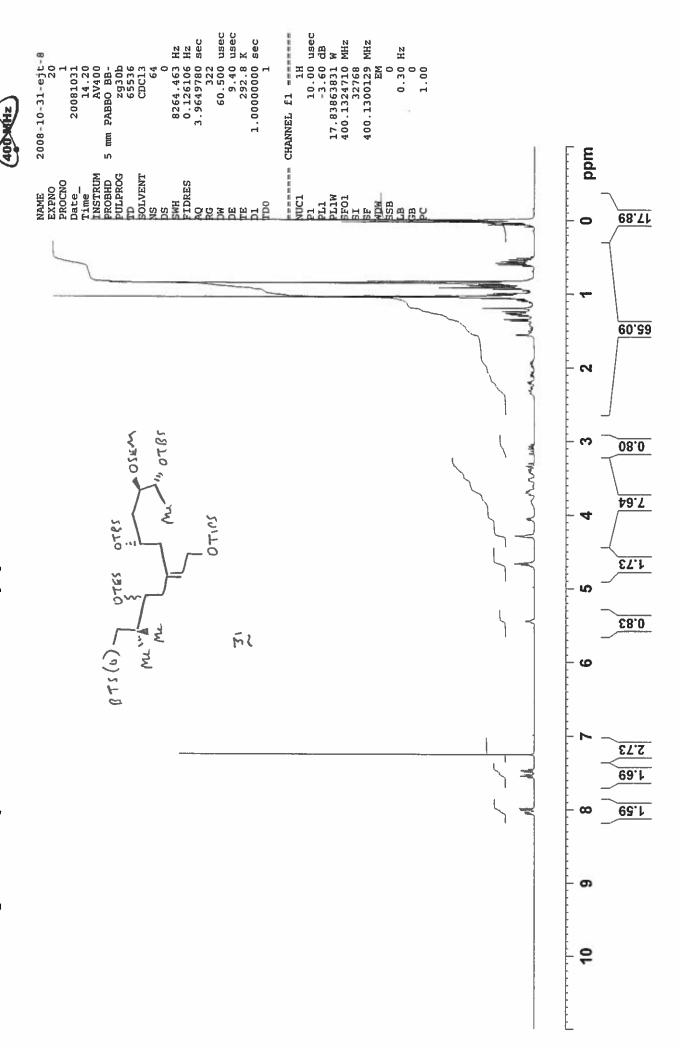


SH390\_A mCARBONnight CDCl3 /opt/topspin ejt 17

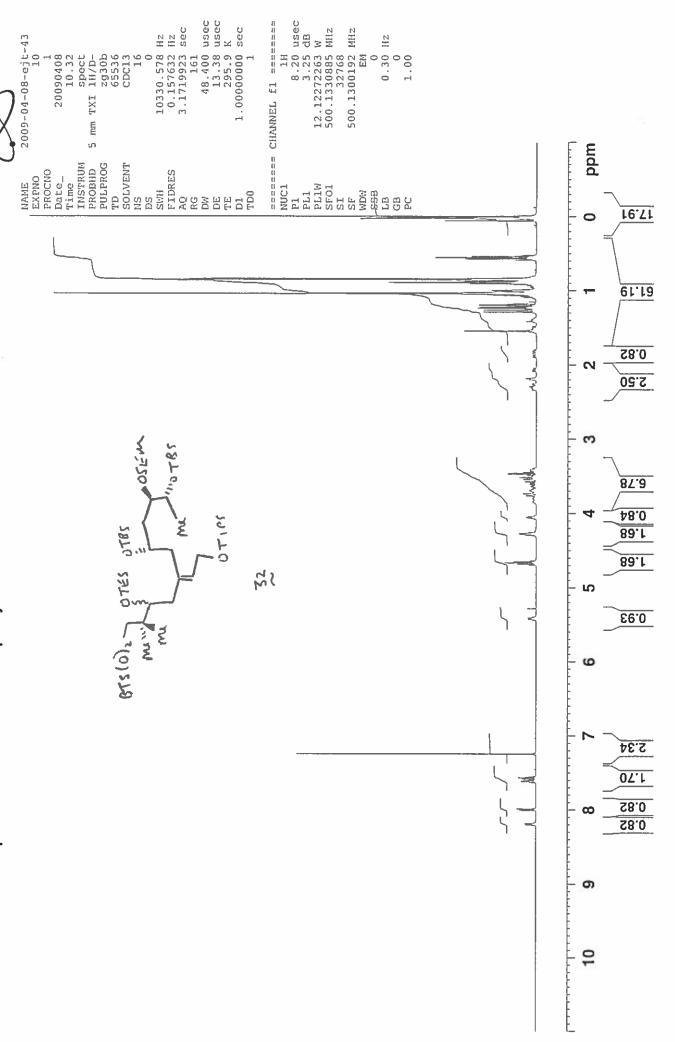


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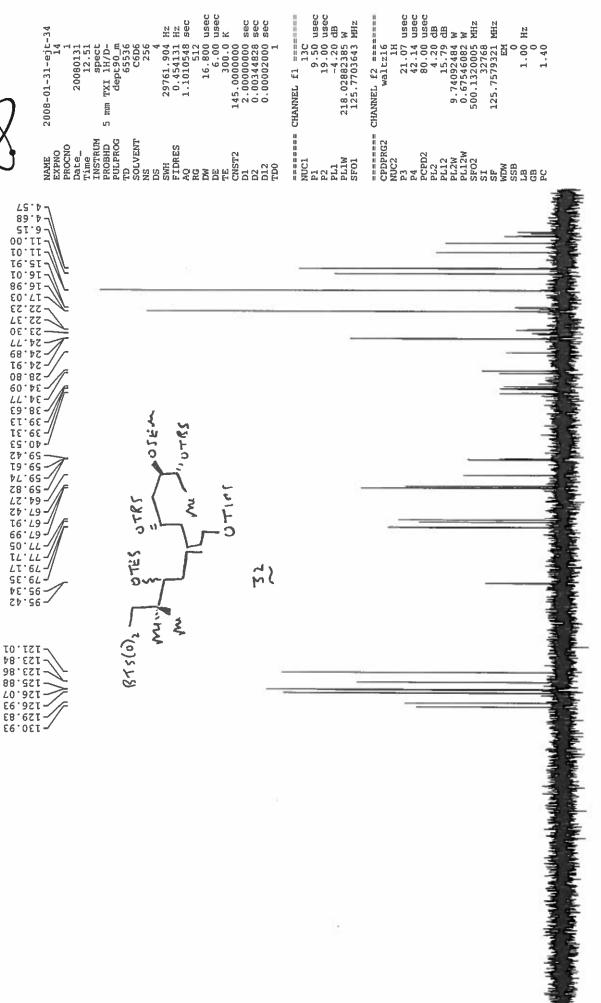
SH\_sulfoxide mPROTONnight CDCl3 {C:\bruk400data\2008\Oct} ejt 8



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SH395 mDEPT90 C6D6 /opt/bruk500data/2008/Jan ejt 34



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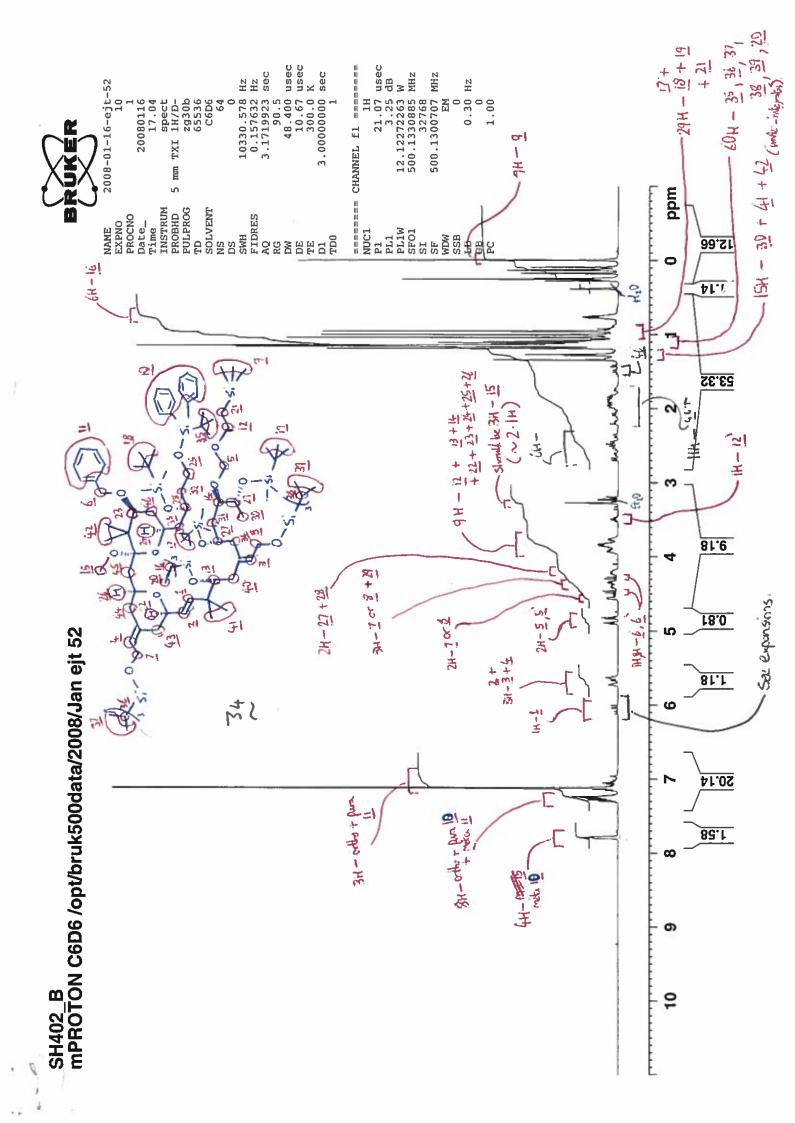
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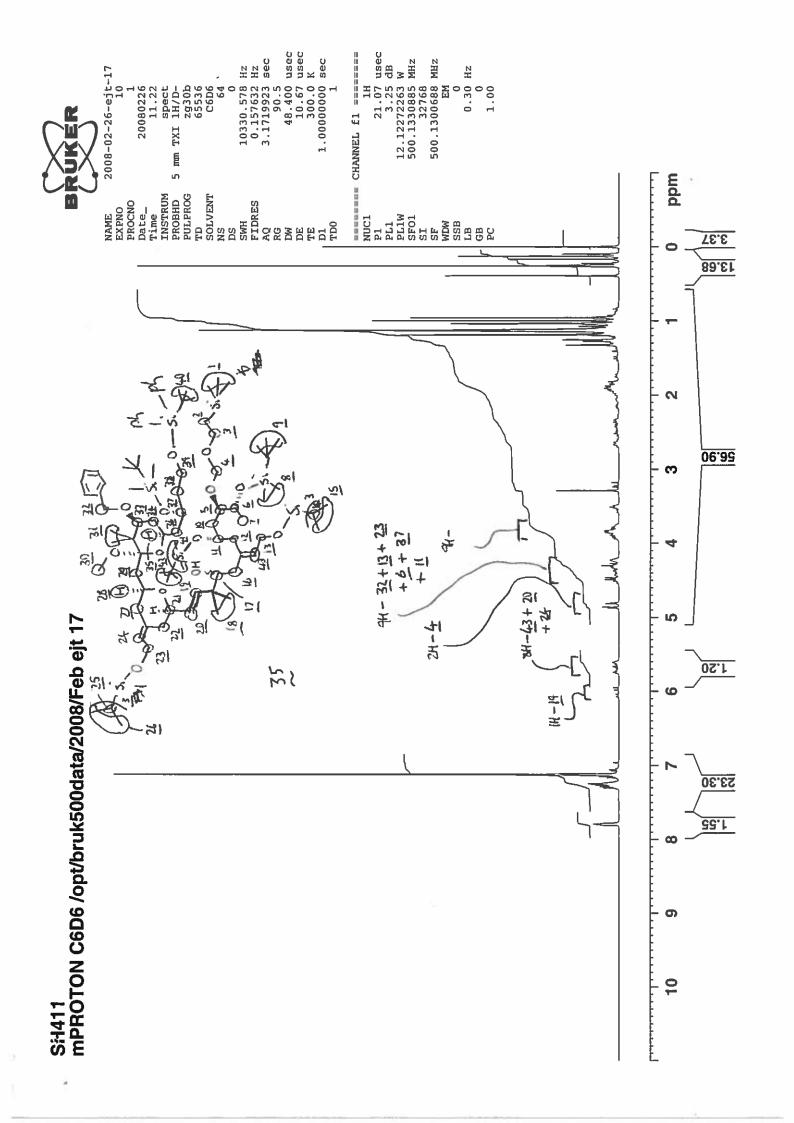
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dept90<u>m</u> 65536 C6D6

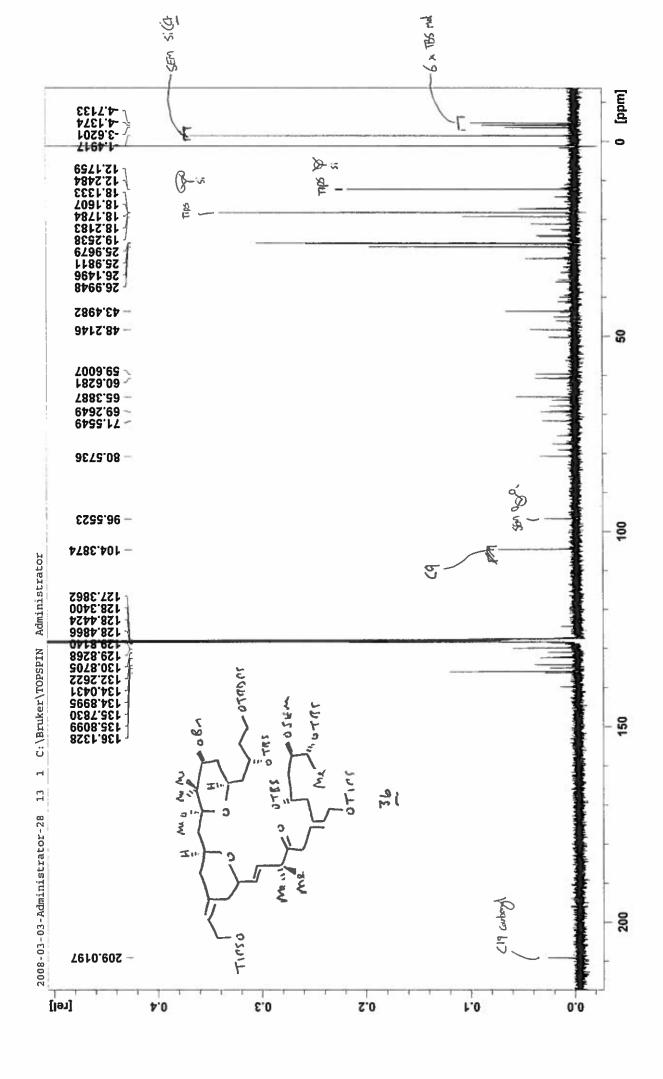


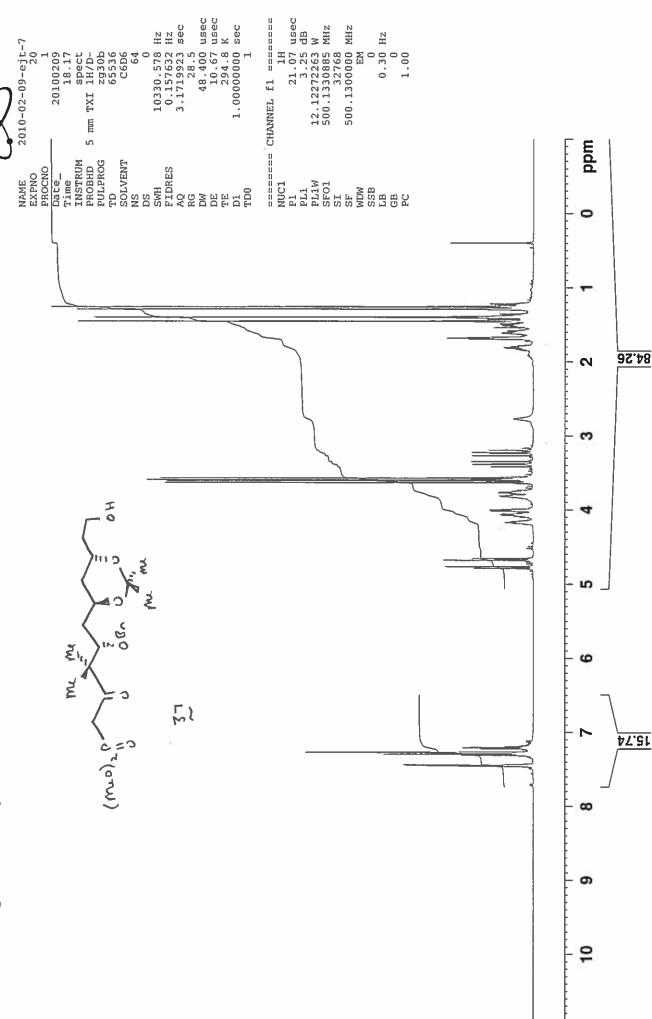
7.80 usec 3.25 dB 12.12272263 W 500.1330885 MHZ 32768 500.1300154 MHZ 1030.578 Hz 0.157632 Hz 3.1719923 sec 64 48.400 usec 13.46 usec 300.0 K 2008-01-31-ejt-6 spect 5 mm TXI 1H/D-2930b 65536 CDC13 96 0.30 ppm NAME EXPNO PROCNO Date— Time INSTRUM PROBHD PULPROG TD SOLVENT NS DS SWH FIDRES AQ RG DW DW DW DE TE 2F.12 11.24 N 8.46 SH397 mPROTONnight CDCl3 /opt/bruk500data/2008/Jan ejt 6 ", ot 85 2.52 0785 08.0 33 mil  $\infty$ 6 우





181 60.500 usec 9.40 usec 0.30 Hz 0 0 1.00 8264.463 Hz 0.126106 Hz 3.9649780 sec 1.00000000 sec 2008-02-29-ejt-58 20080229 10.36 AV400 5 mm PABBO BB-2930b 65536 CGD6 mdd NAME EXPNO PROCNO Date Time INSTRUM PROBHD TD SOLVENT NS DS SWH FIDRES AO DE DE LOS 34.41 3.52 1.03 \\ \\ 48.05 98.0 2₽.0 18.0 0.45 3.26 10" 3,66 ₹2 Į. 28.0 SH412 mPROTON C6D6 {C:\bruk400data\2008\Feb} ejt 58 1.20 ဖ 48.71 73.1  $\infty$ 6 9







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Owner	vnmr1	Points Count	32768	Puise Sequence	zgpg30	Receiver Gain	
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This report was created by ACD/NMR Processor Academic Edition. For more information go to www.acdlabs.com/nmrproc/

Acquisition Time (sec)	1.1010	Comment	attiphosoh mCARBO!	attiphosoh mCARBONnight C6D6 /opt/bruk500data/2010/Feb ejt 7	ata/2010/Feb ejt 7	Date	09 Feb 2010 19:12:00	
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Owner	vnmr1	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	512.00	
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-46	Spectrum Offset (Hz)	12428,5029	Spectrum Type	STANDARD	
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Acquisition Time (sec)	1.1010	Comment	attlphoson mCARBOI	atliphosoh mCARBONnight C6D6 /opt/bruk500data/2010/Feb ejt 7	ata/2010/Feb ejt 7	Date	09 Feb 2010 19:12:00
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File Name	C:\Documents and Set	Ilings\ejt\My Documen	C:\Documents and Settings\ejt\My Documents\Alan\Chem Commun\Pho	Phosphonate\2010-02-09-ejt-7\21\pdata\1\11	\21\pdata\1\1r	Frequency (MHz)	125.76
Nucleus	13C	Number of Transients	nts 1024	Origin	spect	Original Points Count	32768
Owner	vnmr1	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	512.00
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Spectrum Offset (Hz)	12428.5029	Spectrum Type	STANDARD
Sweep Width (Hz)	29761.00	Temperature (degree C)	ee C) 22.268				
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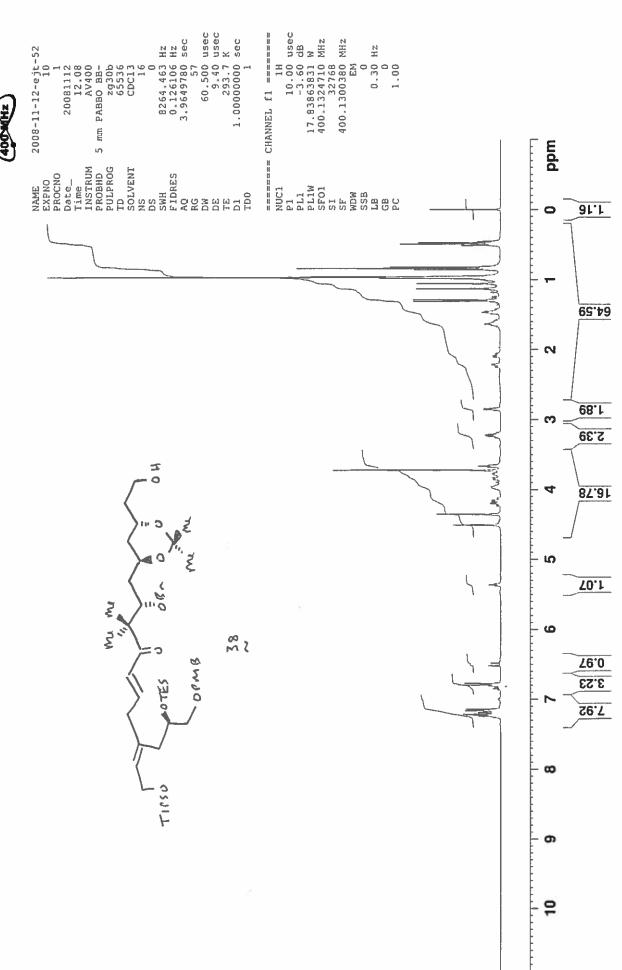
This report was created by ACD/NMR Processor Academic Edition. For more information go to www.acdlabs.com/nmrproc/

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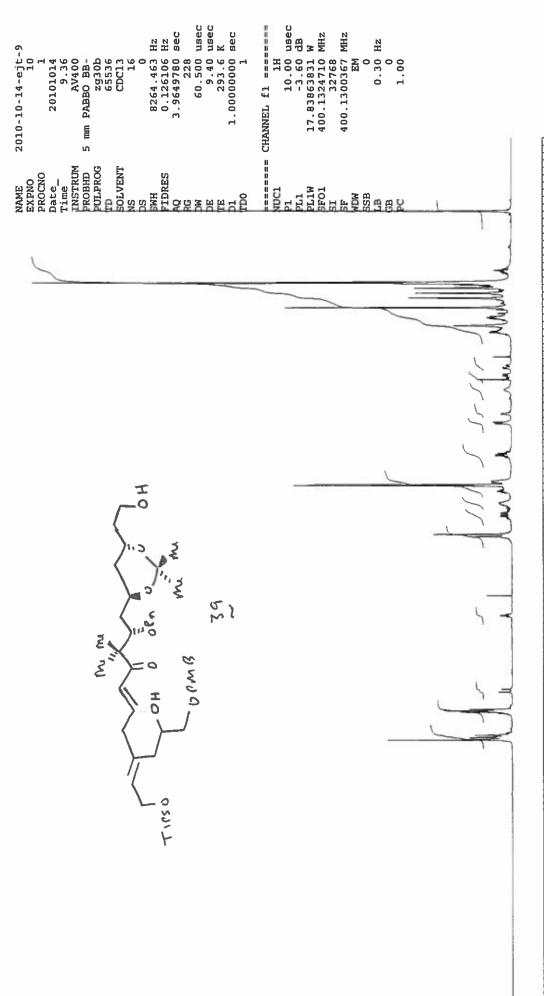
This report was created by ACD/NMR Processor Academic Edition. For more information go to www.acdlabs.com/nmrproc/

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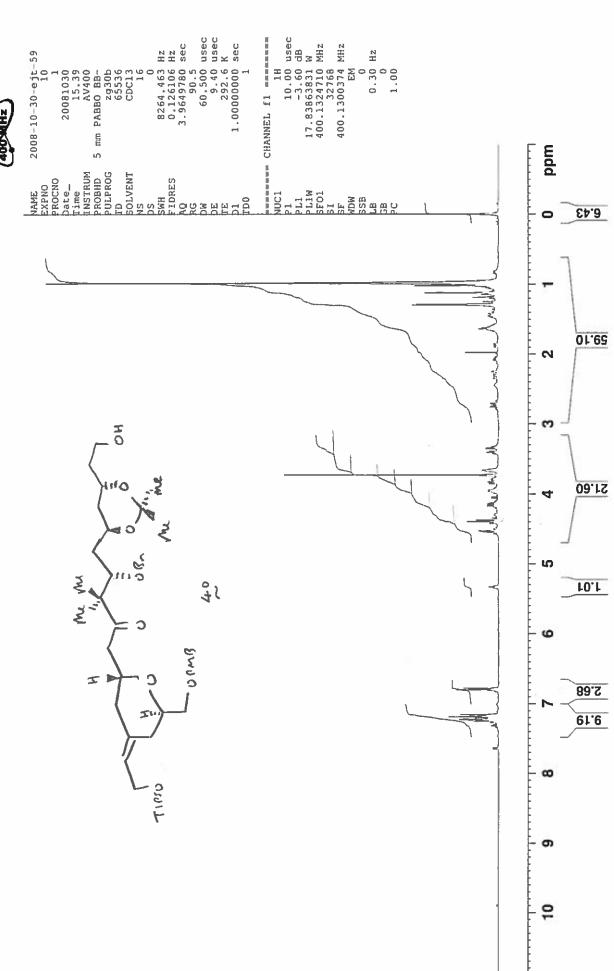
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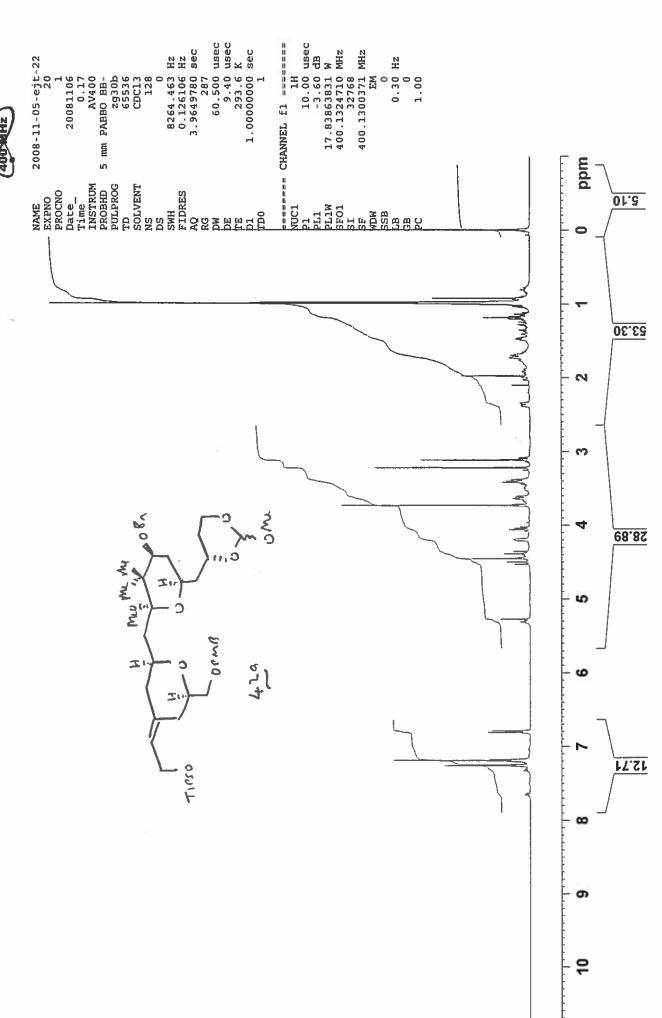
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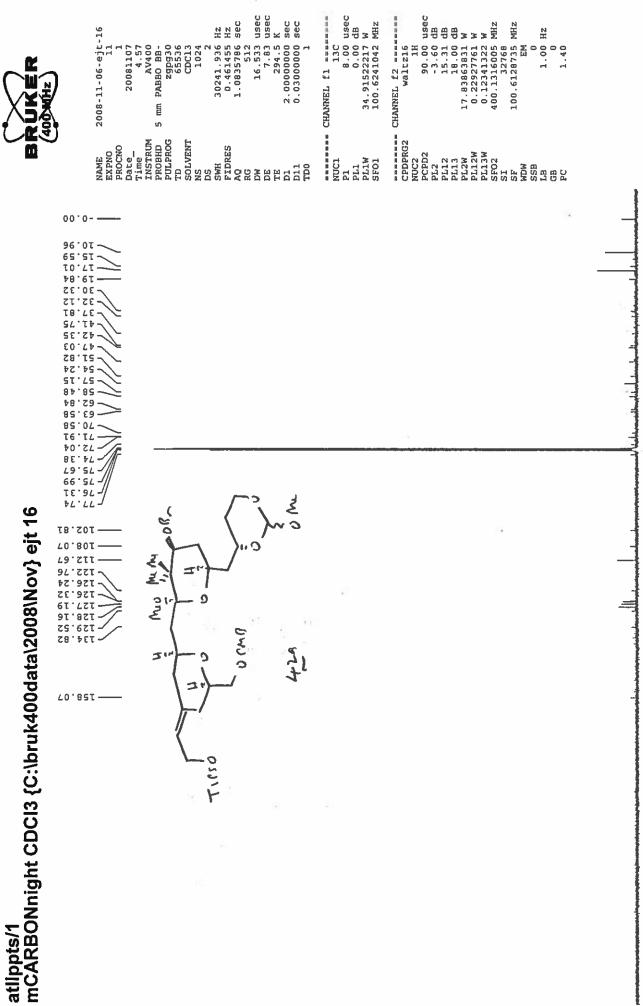


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A	Acquisition Time (sec)	1.0835	Comment		atilkotbu r	<b>IICARBONNI</b>	ght CDCI3 (e	atlikotbu mCARBONnight CDCl3 (e:\bruk400data\2008\Nov) ejt 2	3/2008\Nov	ejt 2	Date		14 Nov 2008 02:12:16	8 02:12:16		
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March   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20   1/20	File Name	C:\Documents an	nd Settings\ejt\My E	ocuments\A!	an/Chem C	ommun/B C1	OH\2008-11	-13-ejt-2/11/p	data\1\1r		Frequence	:y (MHz)				
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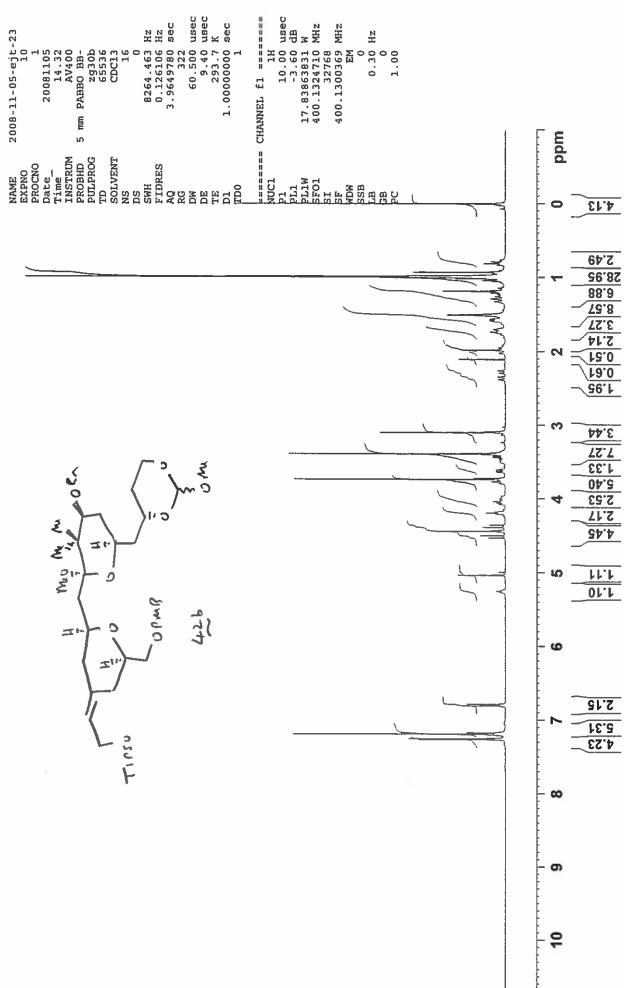




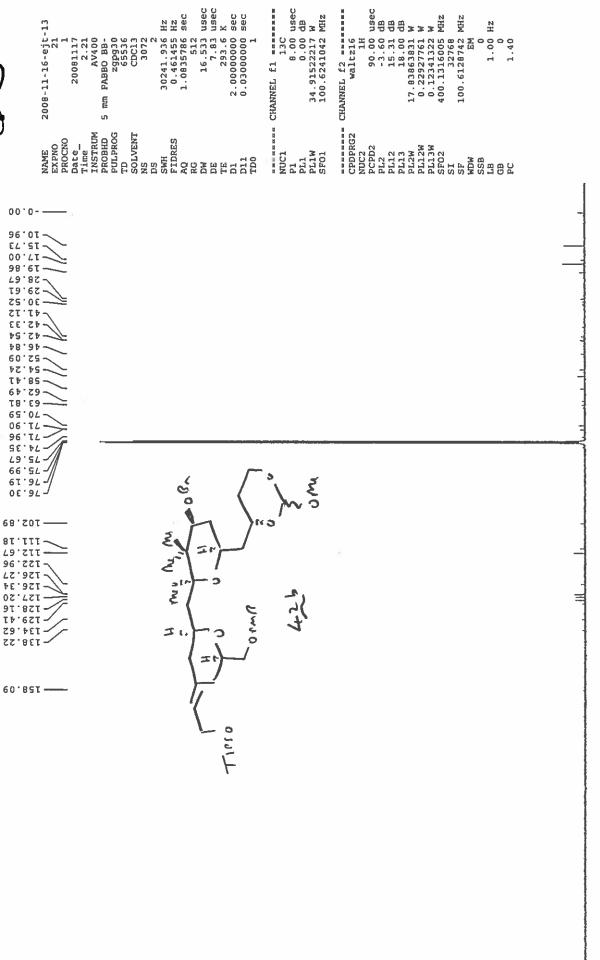


atllppts/2 mPROTON CDCI3 {C:\bruk400data\2008\Nov} ejt 23









usec

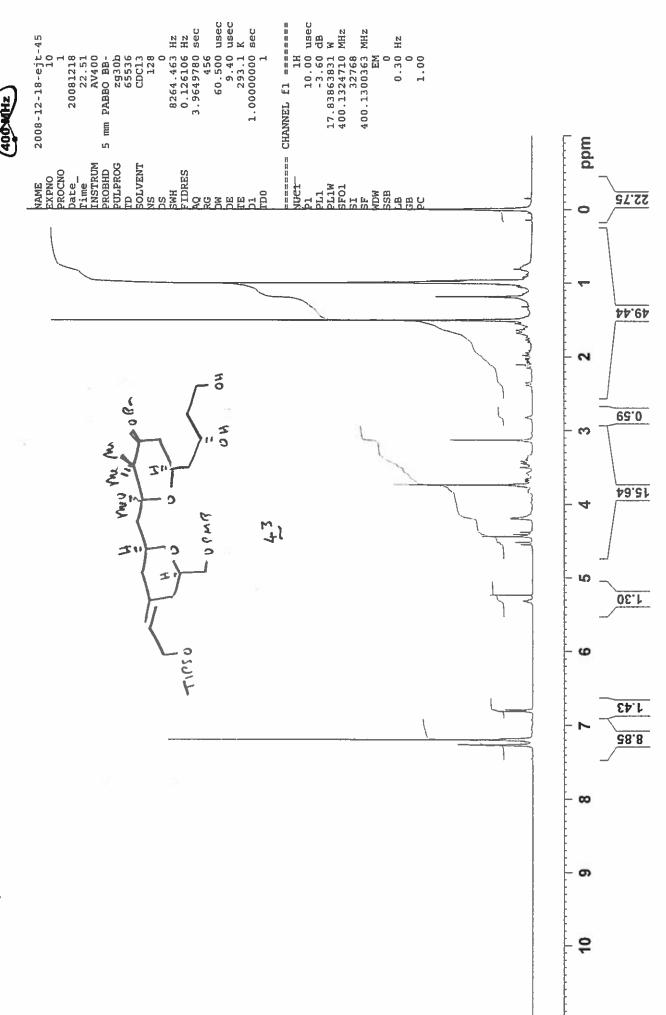
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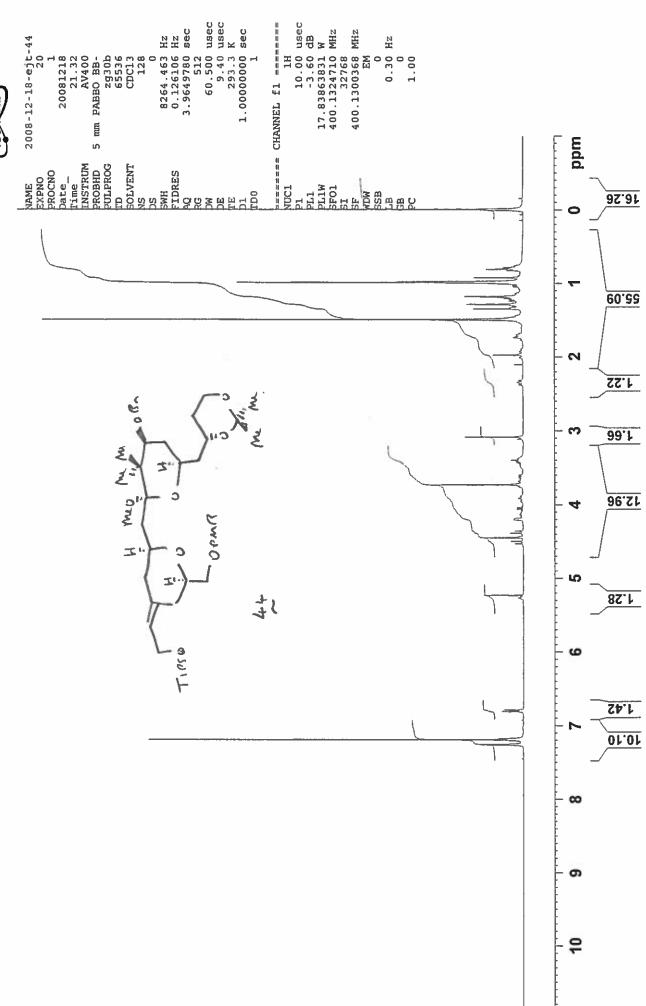
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atlipptstm mPROTONnight CDCl3 {e:\bruk400data\2008\Dec} ejt 45

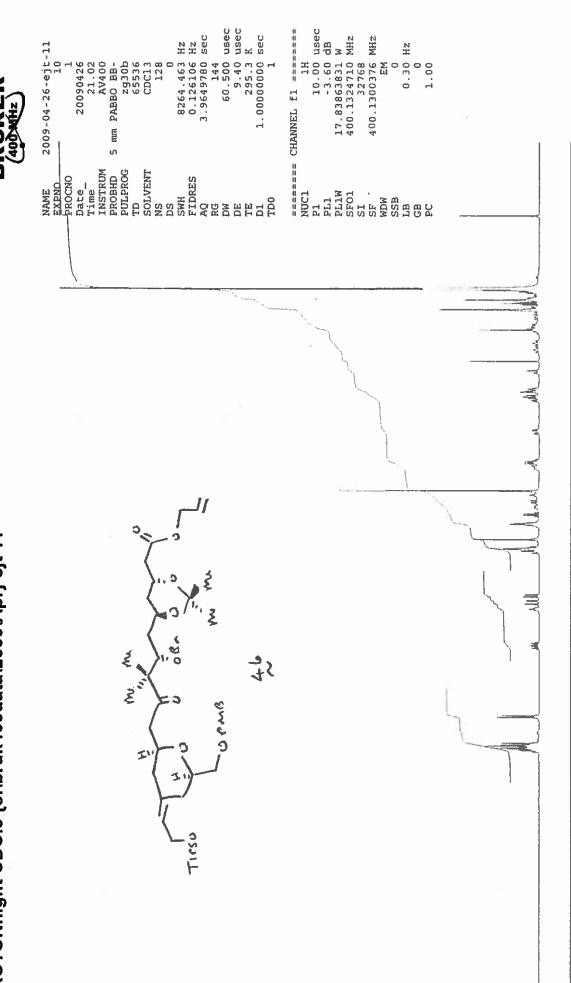


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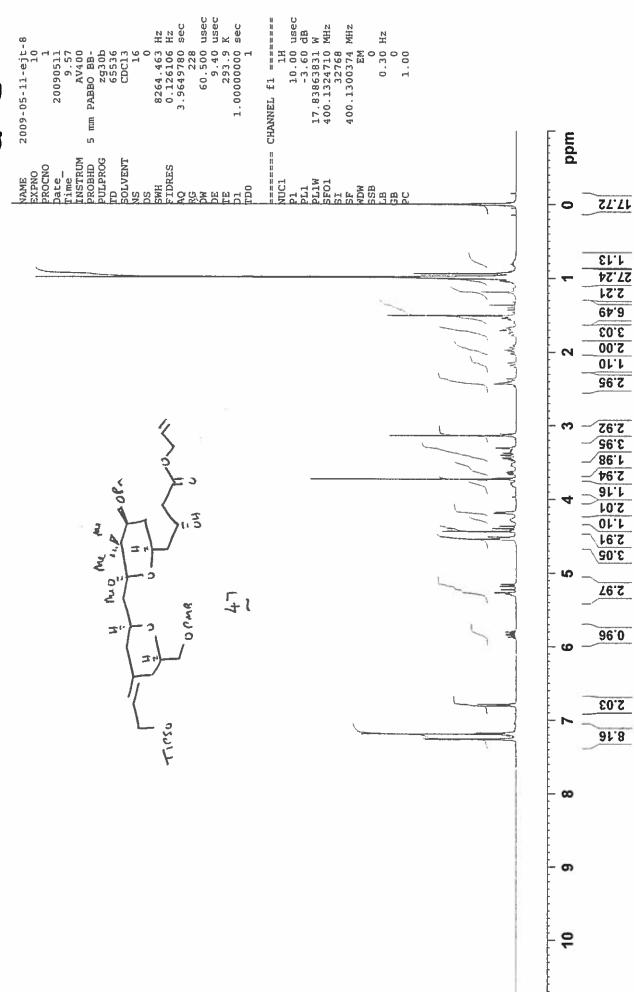
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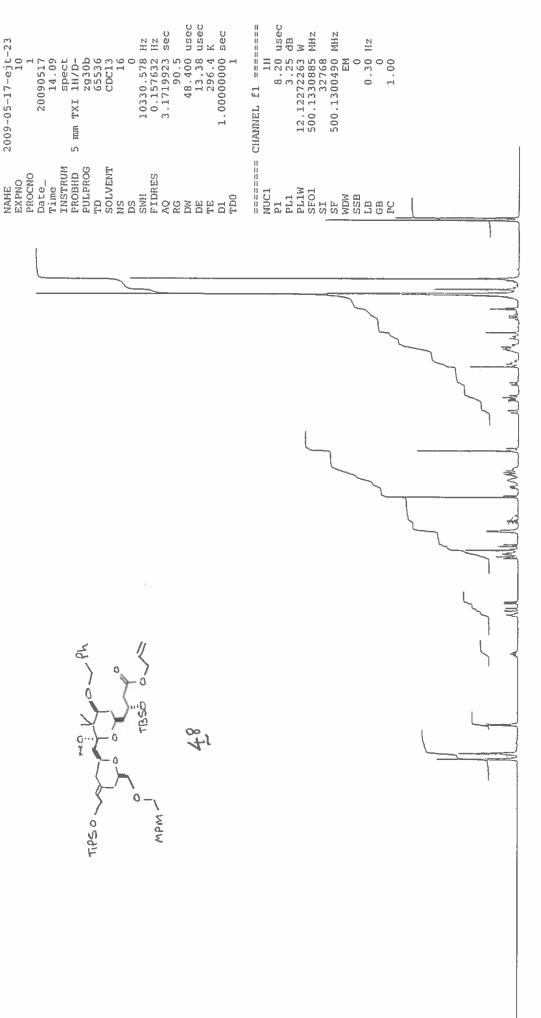
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State   Communication   Comm	amp me s s:lical) (Hz) Vidth (Hz) -2009-05-12-ejt-30	strator M Setting M M Strator Po S M S M S M M M M M M M M M M M M M M	umber of Transie oints Count olvent emperature (degr	15/Alan/Chem Con 165 3072 32768 CHLOROF CHLOROF	ORM-d CORM-d COR	OH2009-05-12-e	if-30/10/pd	W400 W400 gpg30 11230.8525		Frequenc Original P Receiver Spectrum	y (MHz) Points Count Gain Type			
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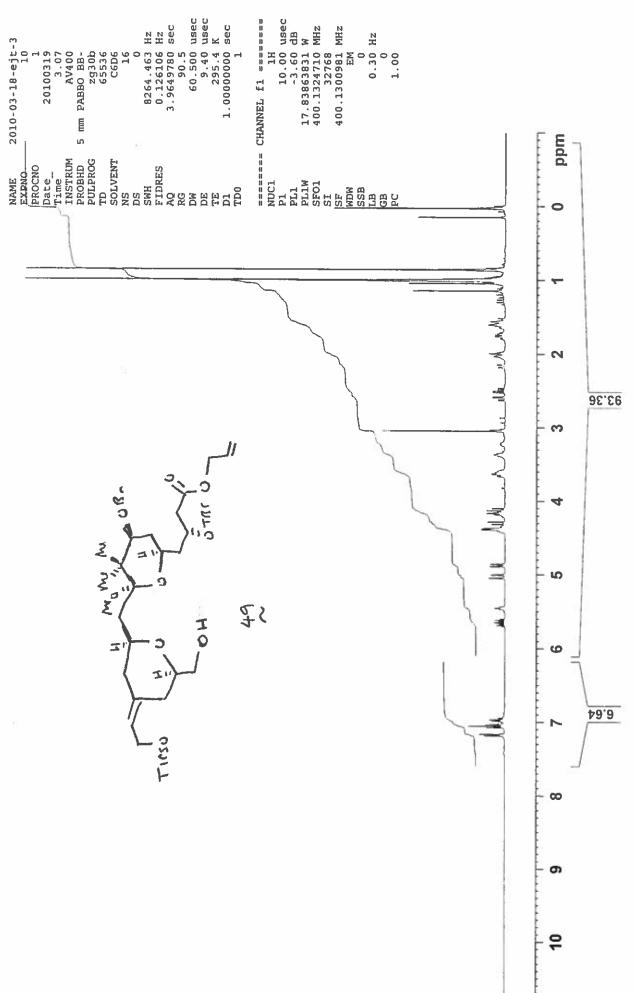
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Nucleus	13C	Number of Transients	nts 3072	Origin AV400	Original Points Count	32768	
Owner	Administrator	Points Count	32768	Pulse Sequence zgpg30	Receiver Gain	512.00	
SW(cyclical) (Hz) Sweep Width (Hz)	30241.94	Solvent CHLOF Temperature (degree C) 22.400	CHLOROFORM-d ee C) 22.400	Spectrum Offset (Hz) 11230.9316	Spectrum Type	STANDARD	
0.20	2009-05-16-ejt-39.011.001.1r.esp						
			H Muc My M			10.71	
0.15		71020	DOWA TARES	% ≥=0		24.75 1.00	
, , , , , ,			30 2			1	
ziisnejini beziisn O C		41.821——	89.211——				
moN		ZI \	207 10				
	70.	131.15 	42.711—— 22.22	\$2.42 \$0.40 \$0.40 \$0.40 \$14.85 \$14.85		26.91— 77.3	62.2- 42.3-
021———	-128	45t————————————————————————————————————	-	Z9	2,54 11,85 25,25 35,25		
o -	A Designation of the least of t	HARRIST PERSONAL PROPERTY.	A CONTRACTOR OF THE PROPERTY O	The state of the s	A PROPERTY OF THE PROPERTY OF	かからない かんかん なんない ないない かんかん ないかん ないない ないない ない	
168 160	0 152 144	136 128 120	0 112 104 96	88 80 72 64 56	48 40 32	24 16 8	8- 0

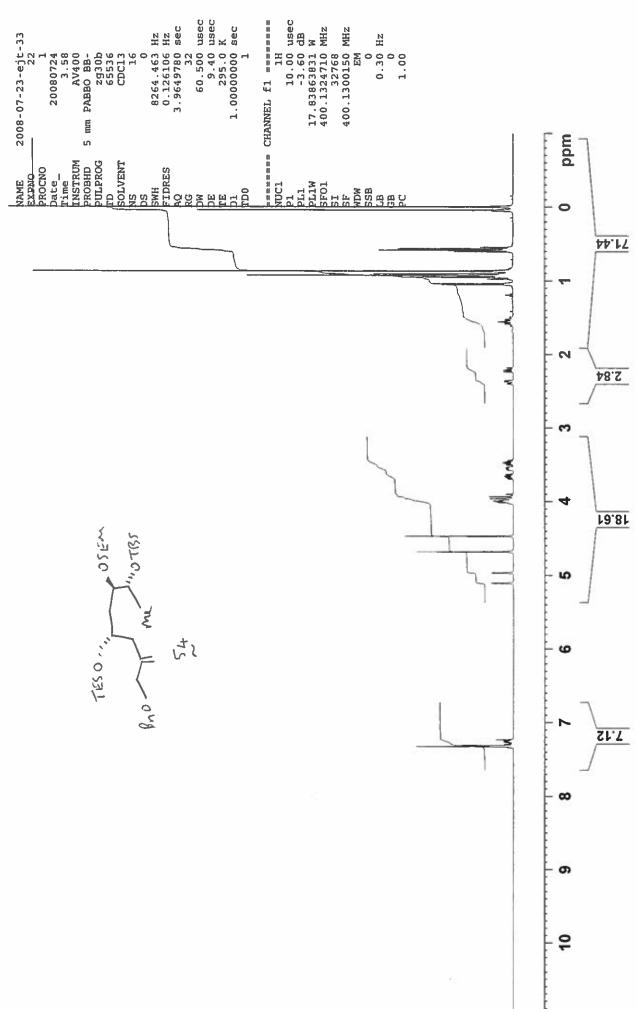
abesterc16oh mPROTONnight C6D6 {e:\bruk400data\2010\Mar} ejt 3

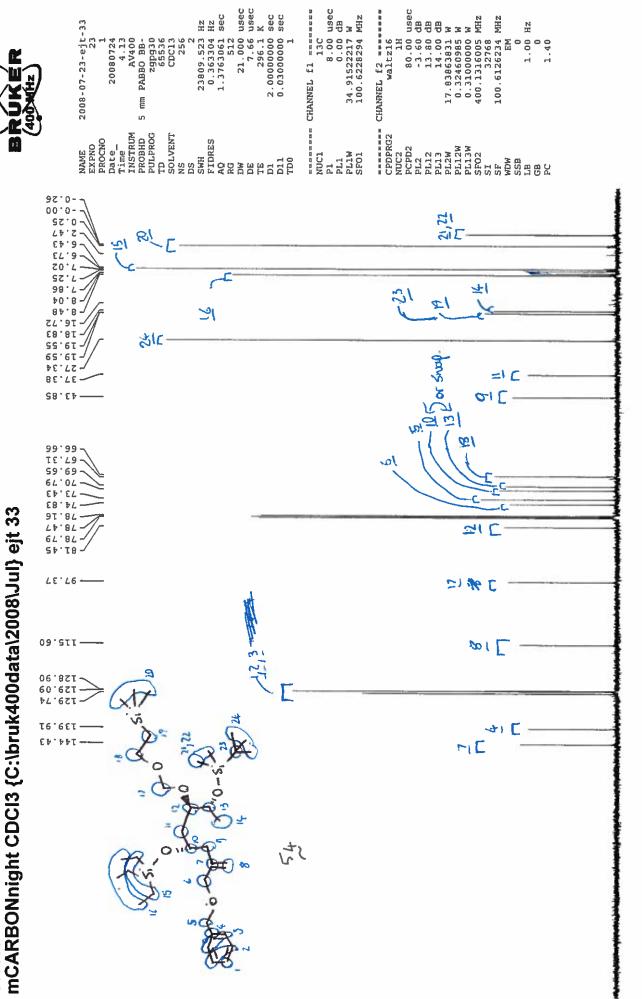




File Name													
	C:\Documents and \	Settings\ejt\My Docu	C:\Documents and Settings\egit\My Documents\Alan\Chem Commun\V	ommun/AB C	AB C16OH\2010-03-18-ejt-3\11\pdata\1\1r	ejt-3/11/pdal	ta\1\1r	Frequ	Frequency (MHz)	100.61			
Nucleus	13C	Number of Transients	nsients 1024		Origin	AV	AV400	Origin	Original Points Count				
Owner	Administrator	Points Count	32768		Pulse Sequence		zgpg30	Recei	Receiver Gain	512.00			
SW(cyclical) (Hz)	30241.94	Solvent	BENZENE-d6	E-d6	Spectrum Offset (Hz)		11218.3389	Spect	Spectrum Type	STANDARD	20		
Sweep Width (Hz)	30241.01	Temperature (degree C)	degree C) 22.900										
0.13 2010-03-18-ejt-3.011.001.1r.esp	011.001.1r.esp												
0.12											Z6·9		
0.11						M O W	3.				ı——		
0.10				L	\	)-(	200						
60:0				المدوه	المرز،	0		0′′					
0.08							ס זהרט	//				1.02	
0.07					44	tr.		7		17. <b>4</b> 2—		ı——	
0.06		0											
0.05		1261	£Z:9Z1-7										
0.04													
0.03		22.461— -134.36	~123.38 123.38 	e0.E01———		88. TT 48.8T— 87. ET— 06.0T— 12. T3	12,73 48,43 07,63 85,88	70.7 <i>p</i>	70.74 E8.E4 23.24 10.24- <u>89.14</u> 99.75	25.25 26.62-	16.61—— 67.81——		
0.01									-				_

SH467 mPROTONnight CDCl3 {C:\bruk400data\2008\Jul} ejt 33





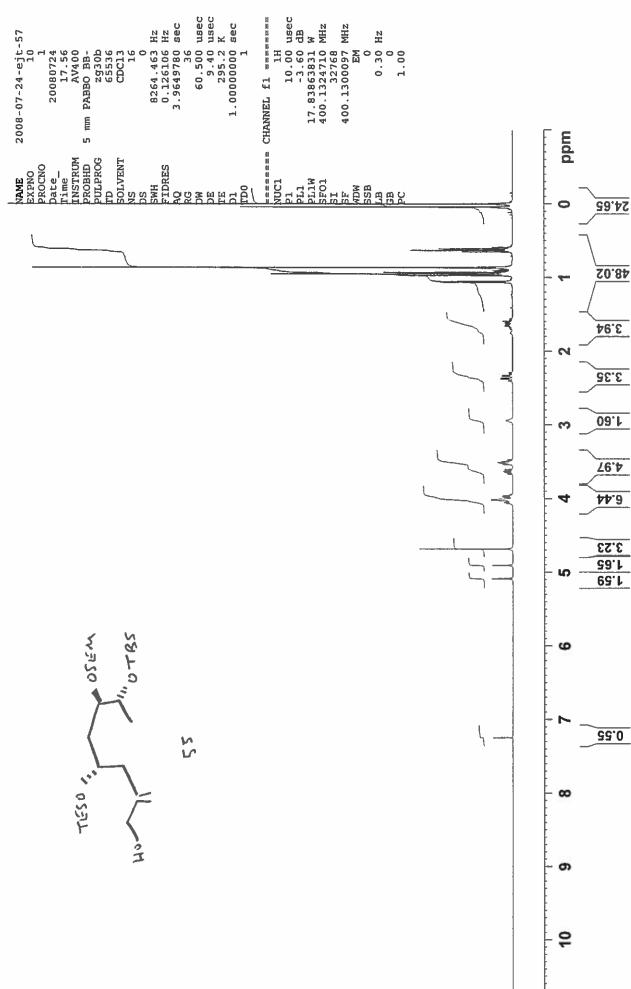
ΖH

mdd

Hz Hz sec

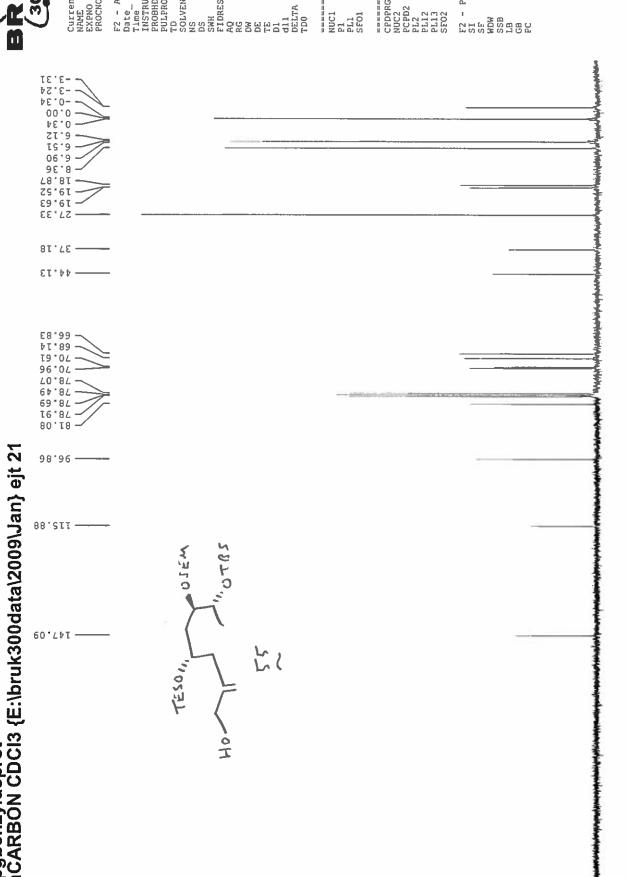


SH468 mPROTON CDCI3 {C:\bruk400data\2008\Jul} ejt 57

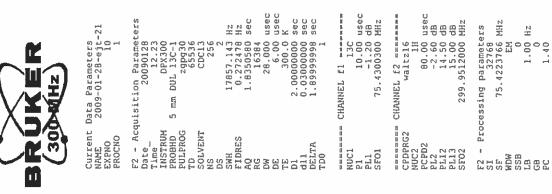




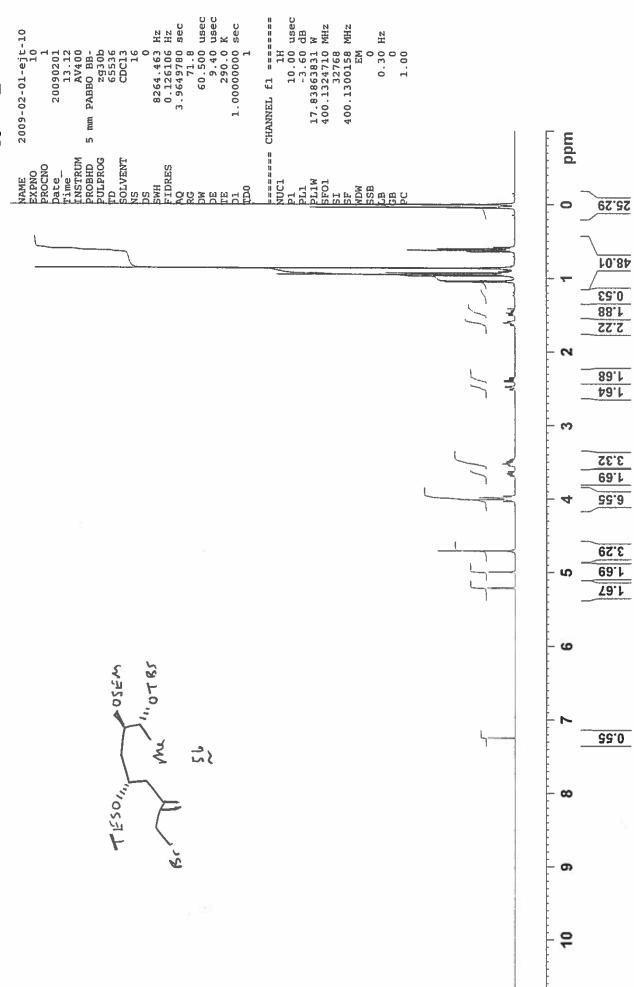
apgbenzyldeprot mCARBON CDCI3 {E:\bruk300data\2009\Jan} ejt 21

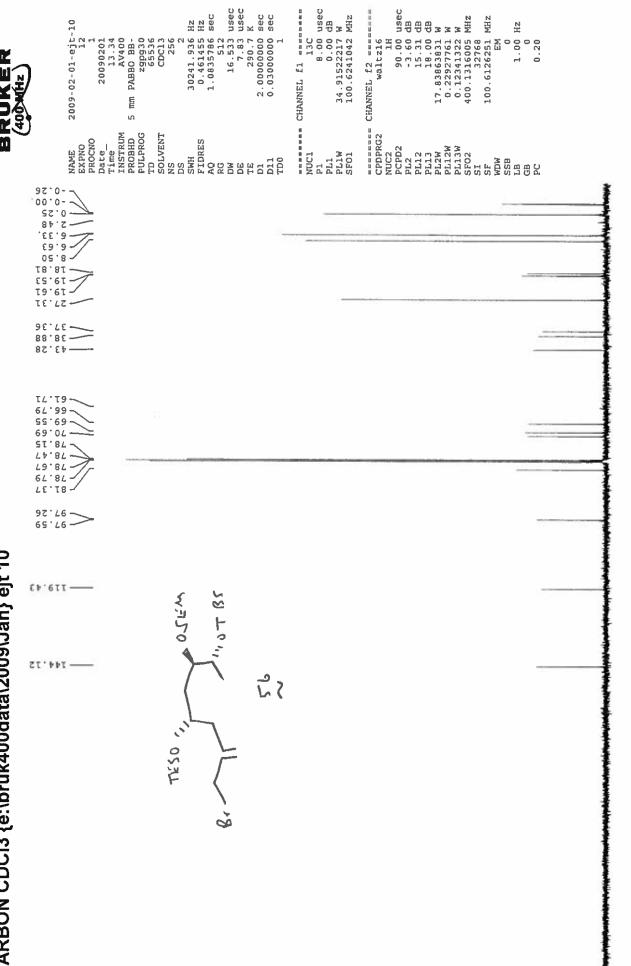


ppm







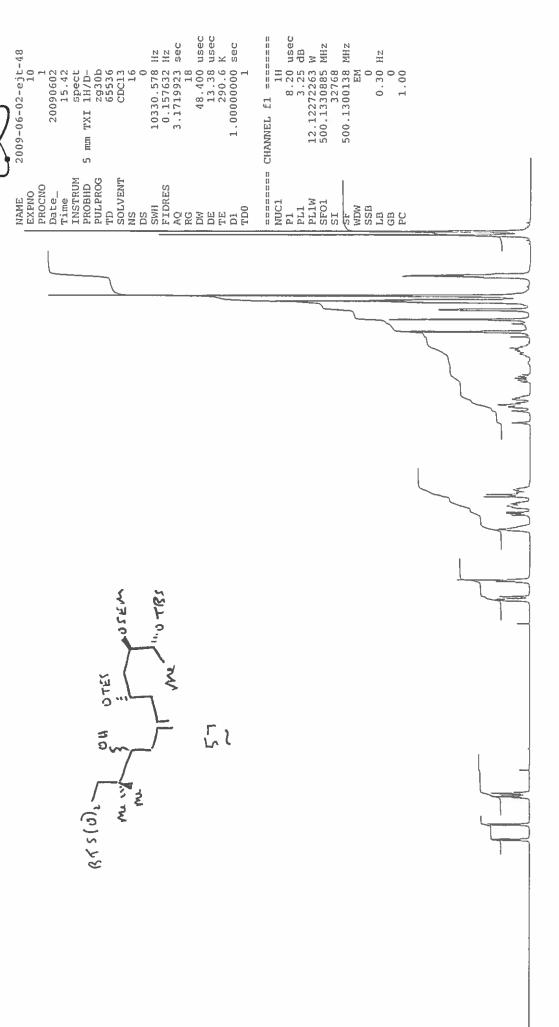


ppm

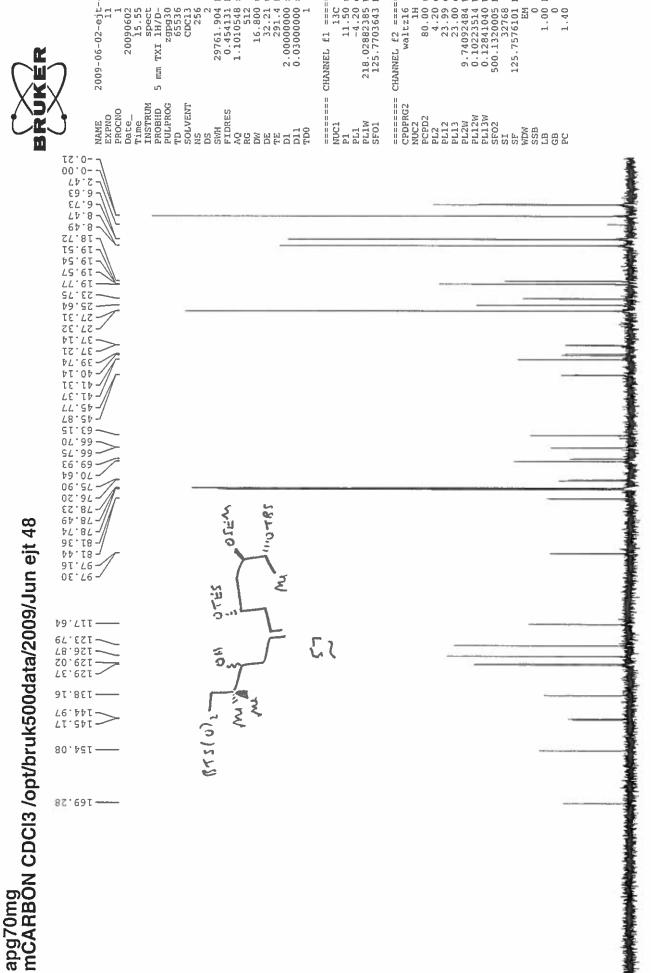
usec usec K sec sec

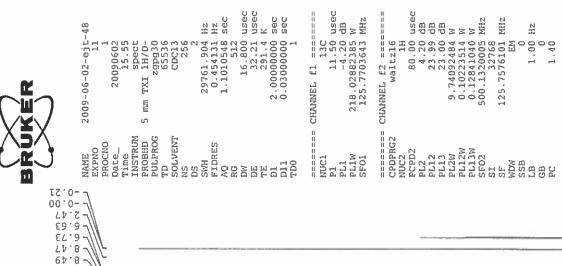
HZ HZ Sec



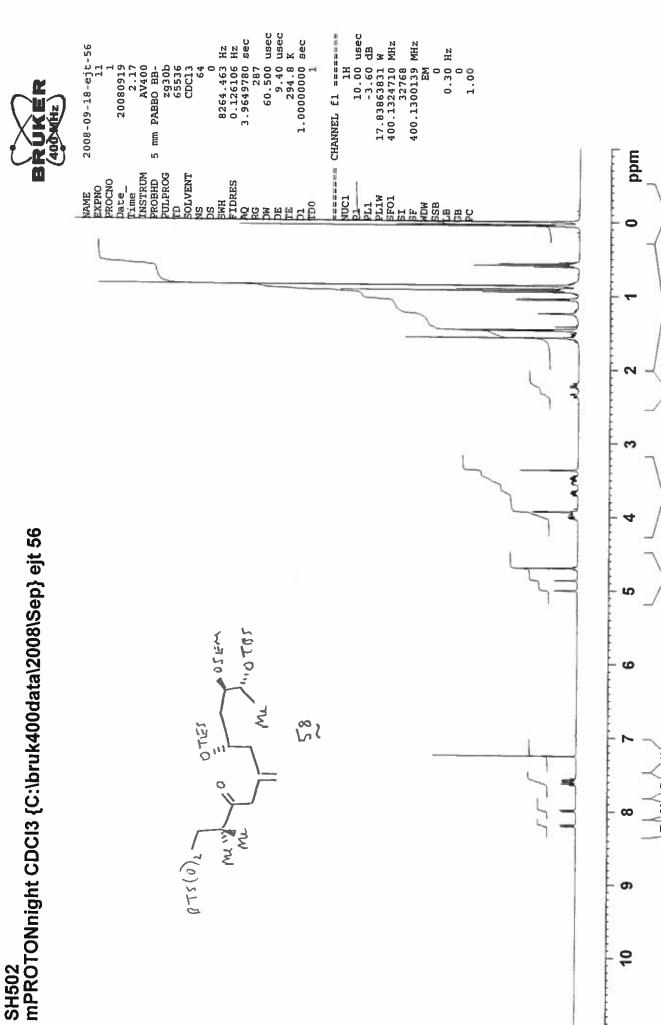


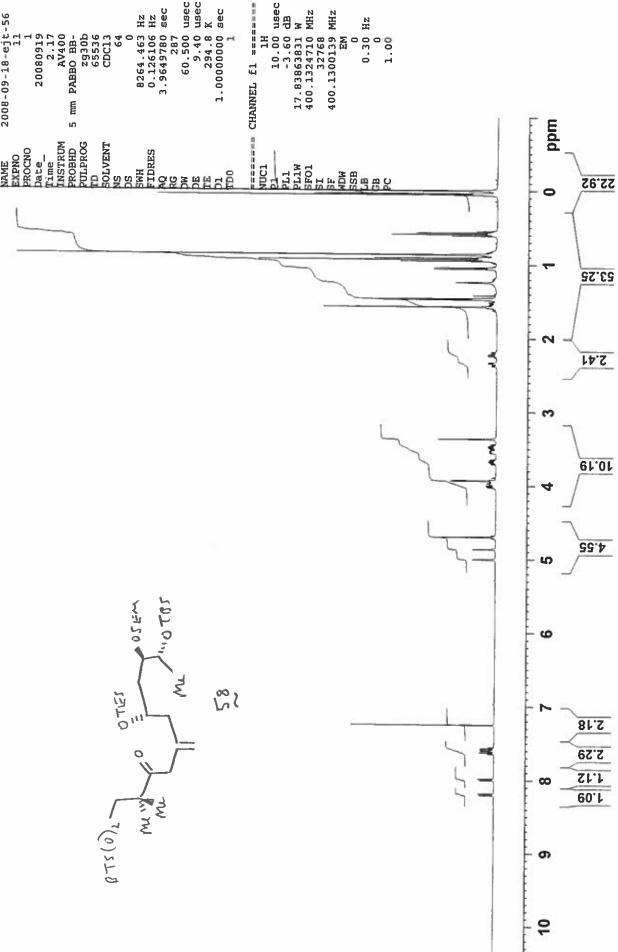
mdd 20.39 0 58.33 2 79.01 5.28 10 9 2.83 15.5 6 10





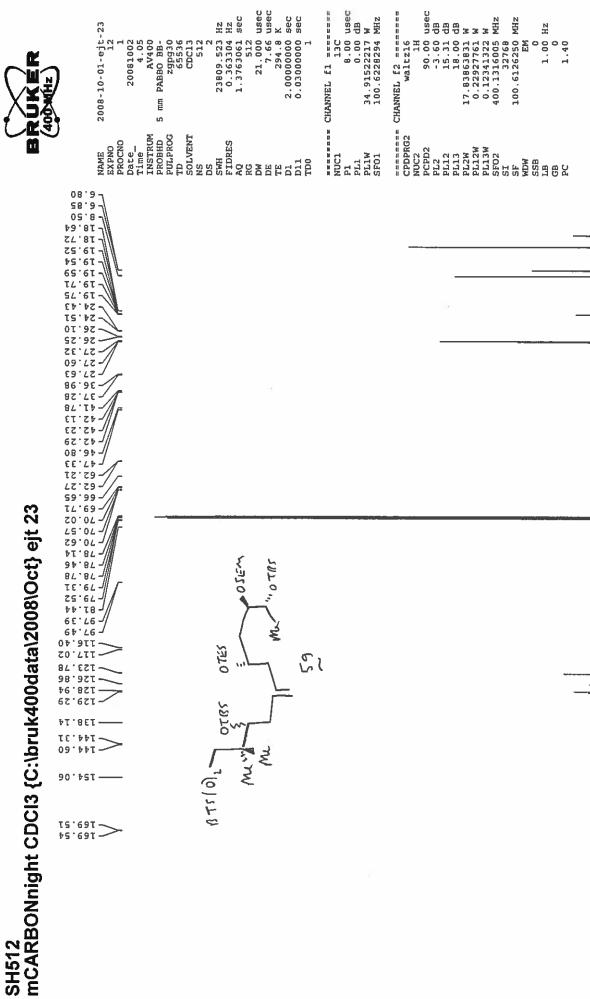
mdd





usec dB dB dB W W W W nsec usec dB W MHz HZ HZ Sec , f2 ======== waltz16 MHZ 2008-09-18-ejt-56 HZ 17.83853831 W 0.22927761 W 0.12341322 W 400.1316005 M 32768 100.6126249 M 1 20080919 2.11 AV400 mm PABBO BB-21.000 1 7.66 1 295.4 23809.523 0.363304 1.3763061 zgpg30 65536 CDC13 2560 8.00 1H 90.00 -3.60 15.31 2.000000000 34.91522217 100.6228294 CHANNEL f2 ហ CPDPRG2 Date\_ Time\_ INSTRUM PROBHD PULPROG TD SOLVENT DS SWH FIDRES AQ DW DW DE TE D11 NAME EXPNO PROCNO NUC2
PCPD2
PL12
PL12
PL12W
PL12W
PL12W
PL13W
SF02
SF02
SI
SF0 ppm Sulpar speak 13 22.6--26.6--21 23, 29, 26 00.0--'일 일 BI 121 94.2-07.9-05.8-\$2.92 \$2.62 \$2.62 \$7.82 \$7.82 15,9 20 21 51 86,76-8 48.65 겖 100 94.87 27.07 27.07 27.07 27.07 34.87 9 52 1 1 mCARBONnight CDCI3 {C:\bruk400data\2008\Sep} ejt 56 80 74.18~ 77.87~ 21 2 LE. LE 100 Pal 120 LS'BTT Dal Dal ह्य 18'621-68:921-P0'6ZT-24.621-1 5 12 140 138.22 6T'TPT 87 26.521 160 30 L 8 68'89T · 180 200 #1 64.012-

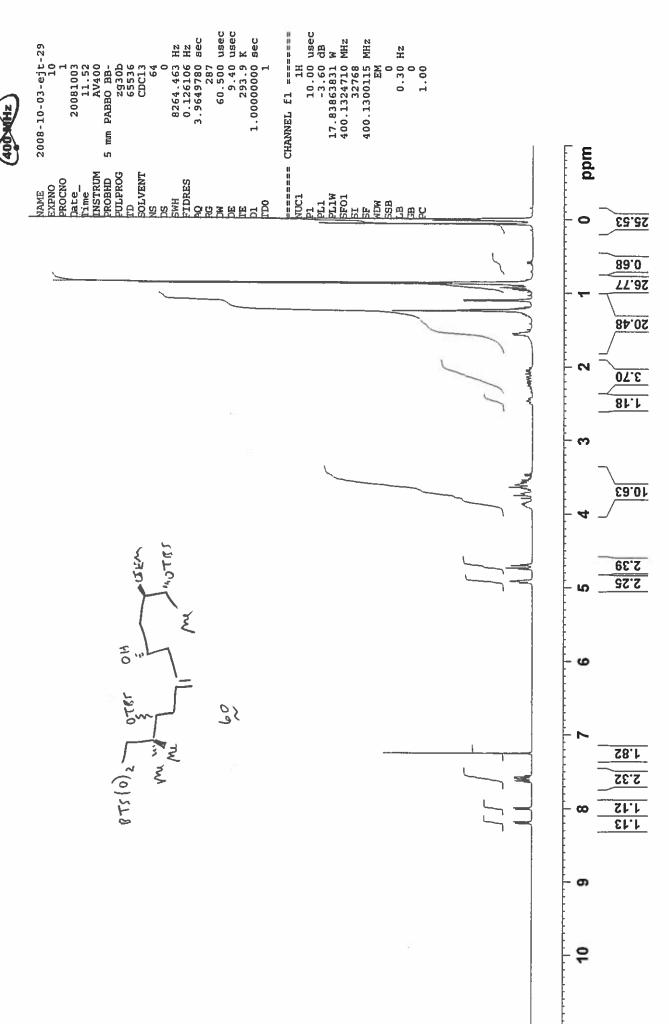
90.5 60.500 usec 9.40 usec 294.2 K 10.00 usec -3.60 dB 17.83863831 W 400.1324710 MHz 32768 8264.463 Hz 0.126106 Hz 3.9649780 sec CHANNEL fl ====== 1.00000000 sec 2008-10-01-ejt-23 0.30 Hz 5 mm PABBO BB-2930b 65536 CDC13 20081002 3.27 AV400 mdd TD SOLVENT NAME EXPNO-PROCNO Date-Time-INSTRUM PROBHD NS DS SWH FIDRES 生一円 157 - HEZ 70.28 원-동 ローエー 파일 보 20.6 SH512 mPROTONnight CDCI3 {C:\bruk400data\2008\Oct} ejt 23 67.4 S ニード 9 5 2.25 01.1 80.1  $\infty$ 6 9







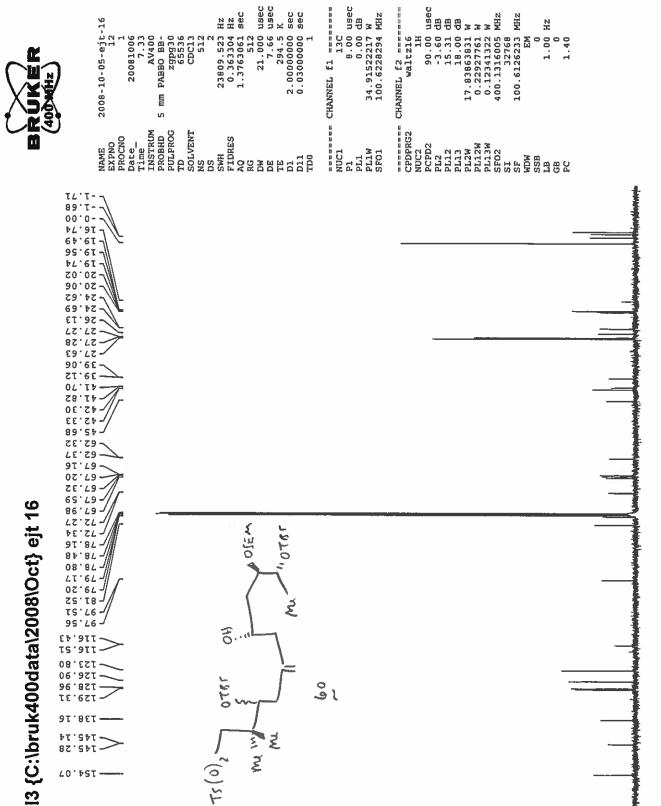
SH513 mPROTON CDCI3 {C:\bruk400data\2008\Oct} ejt 29



mCARBONnight CDCI3 {C:\bruk400data\2008\Oct} ejt 16 SH515

TS'69T-

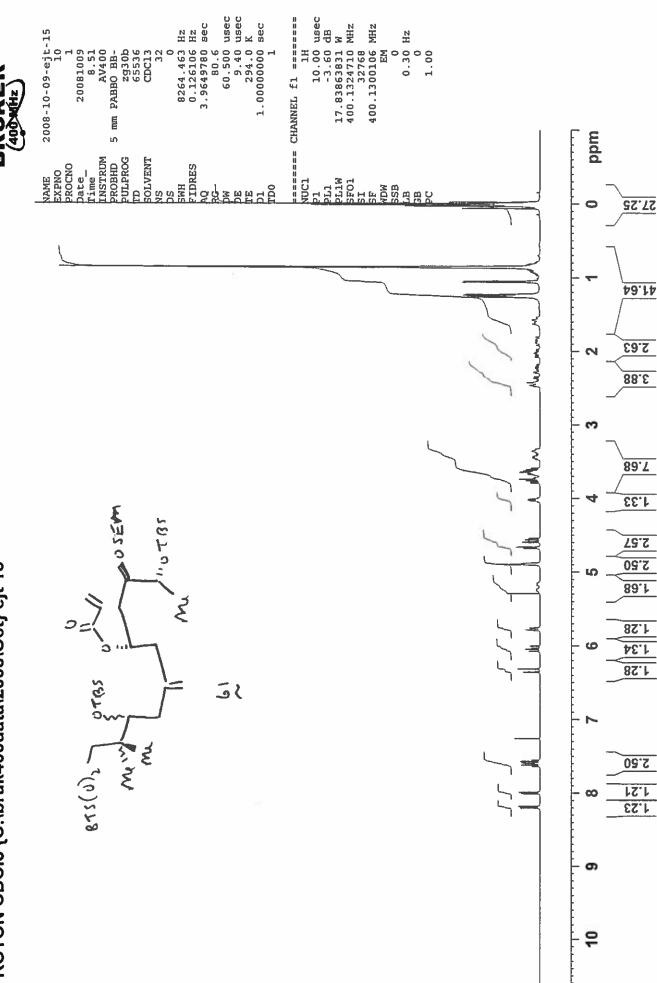




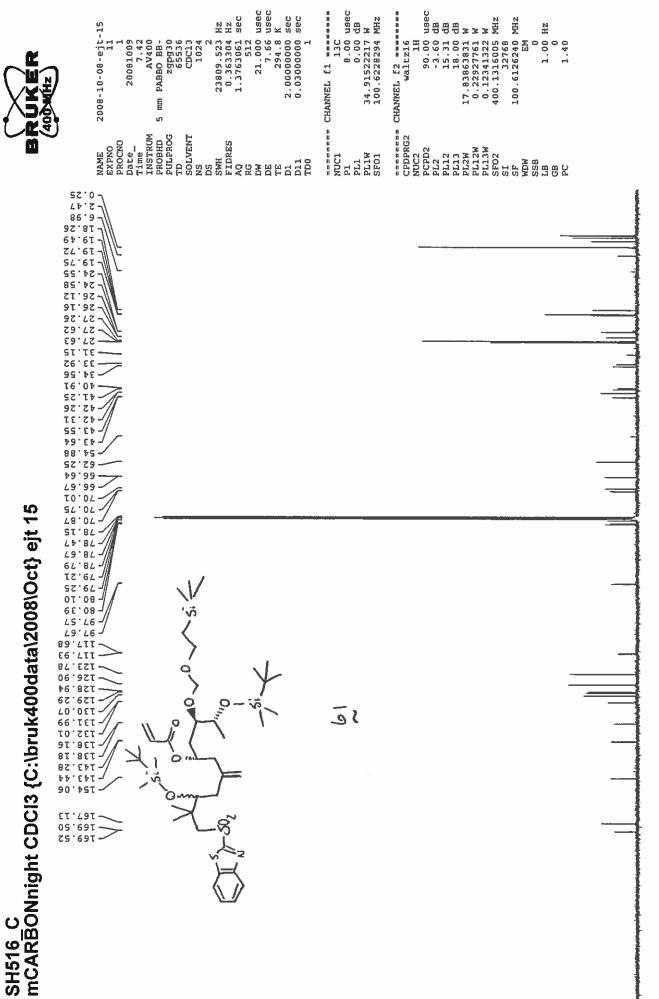
mdd



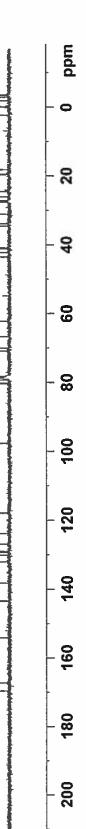
SH516 mPROTON CDCI3 {C:\bruk400data\2008\Oct} ejt 15

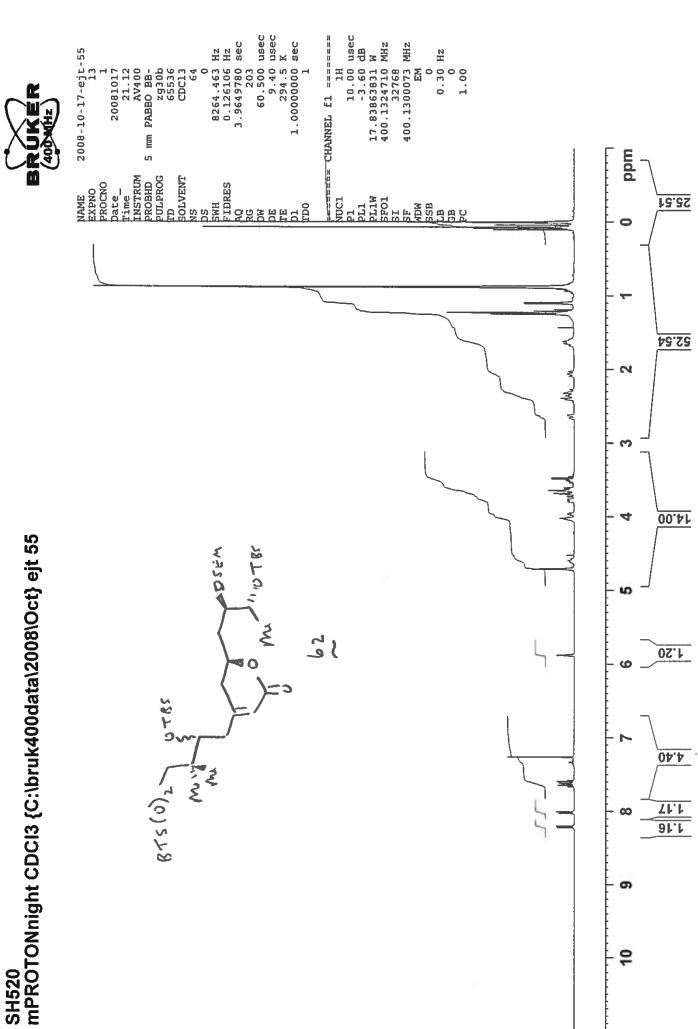




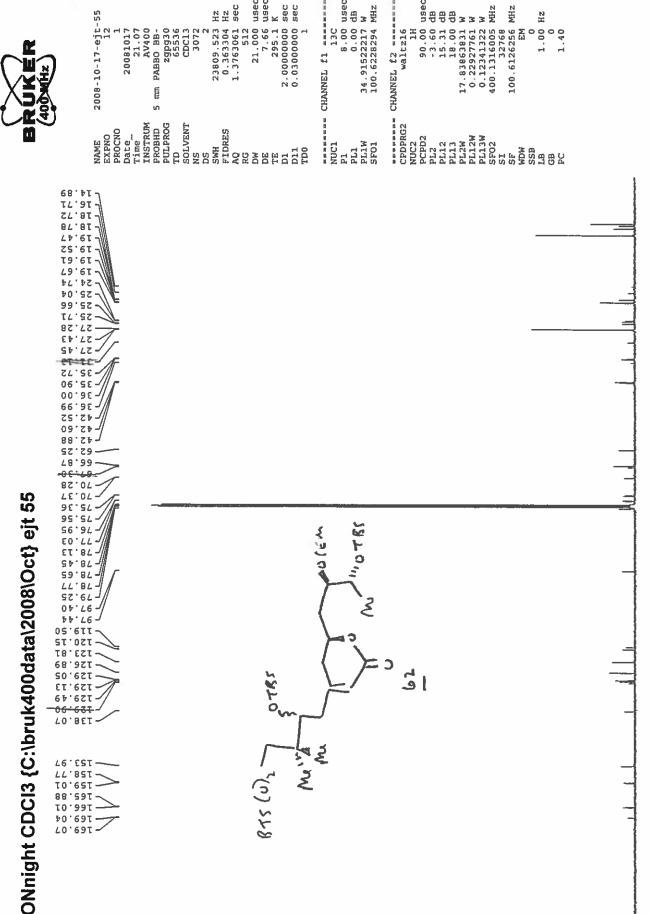








mCARBONnight CDCI3 {C:\bruk400data\2008\Oct} ejt 55



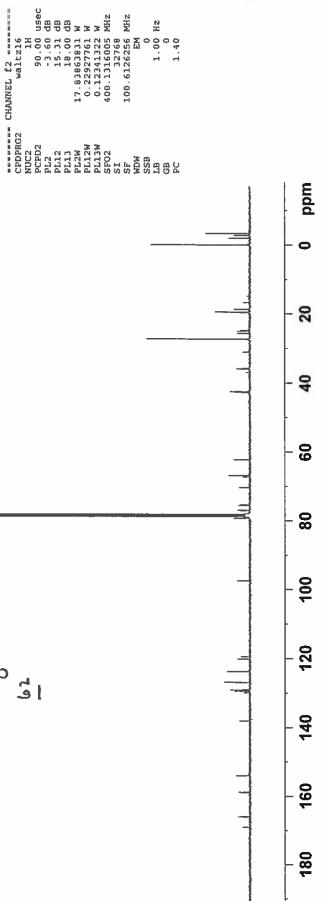
usec K sec sec nsec

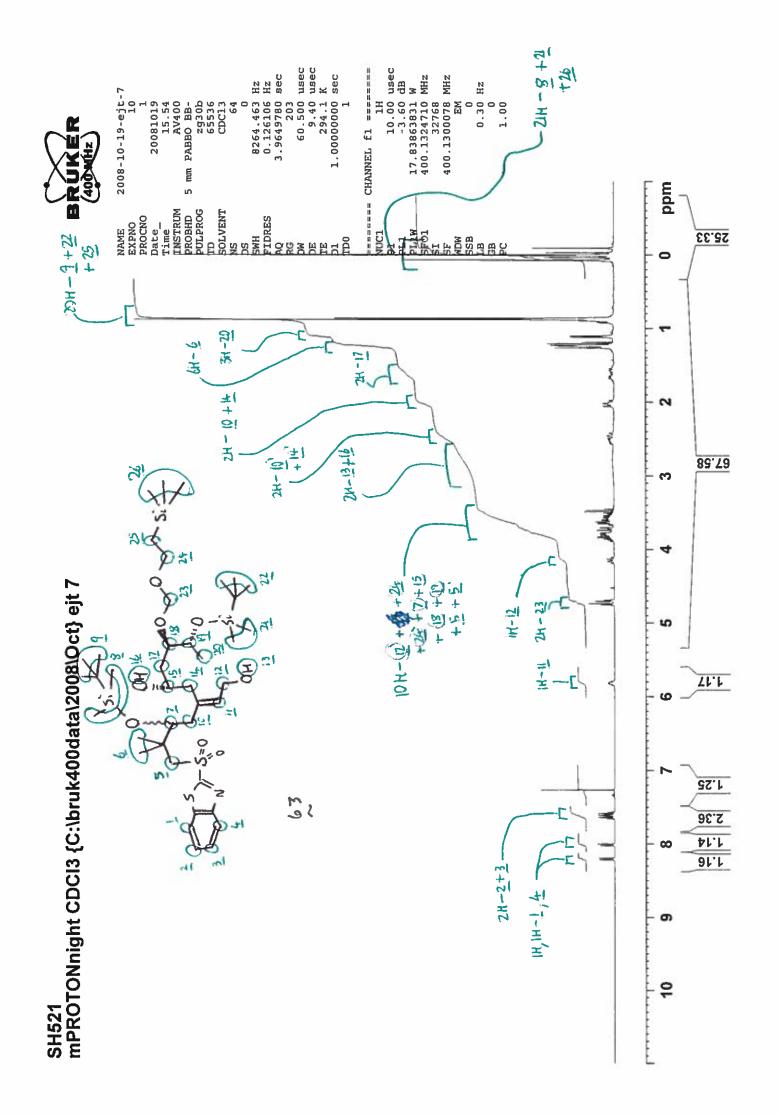
Hz Hz sec

nsec

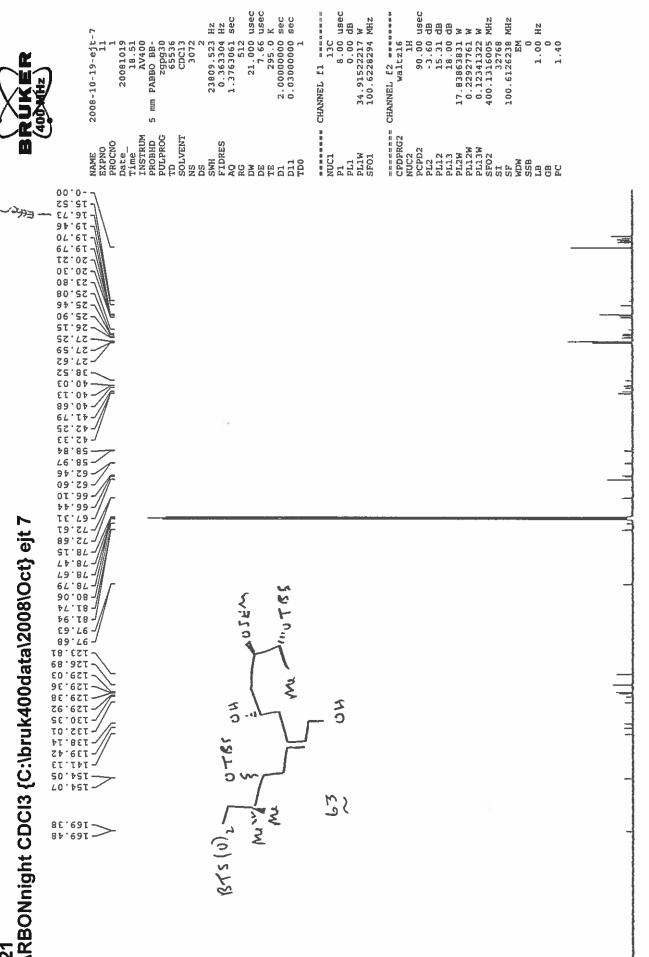
dB W MHz







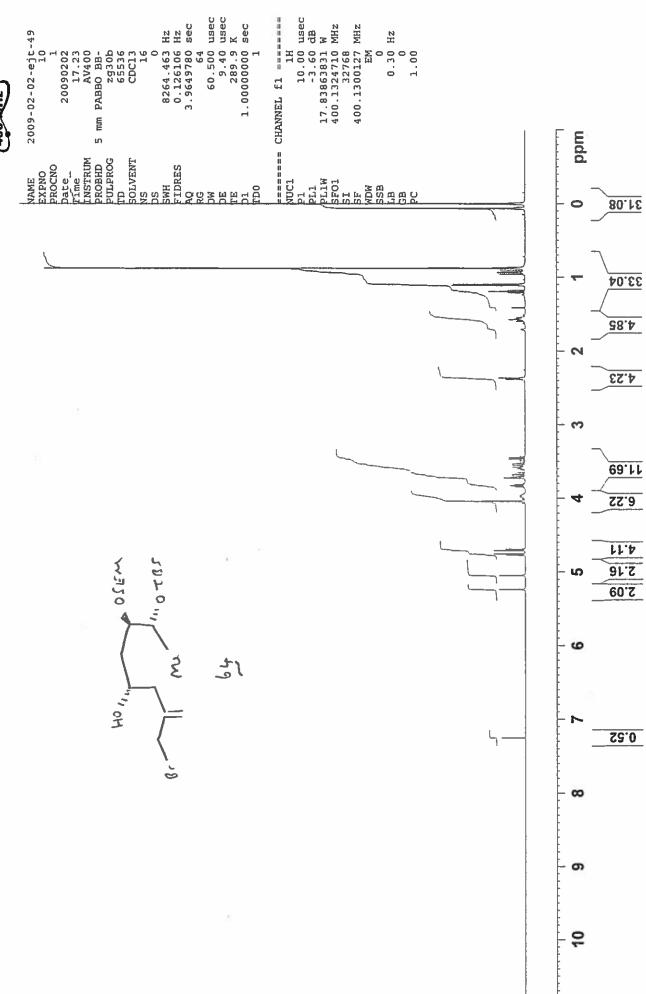
mCARBONnight CDCI3 {C:\bruk400data\2008\Oct} ejt 7



mdd

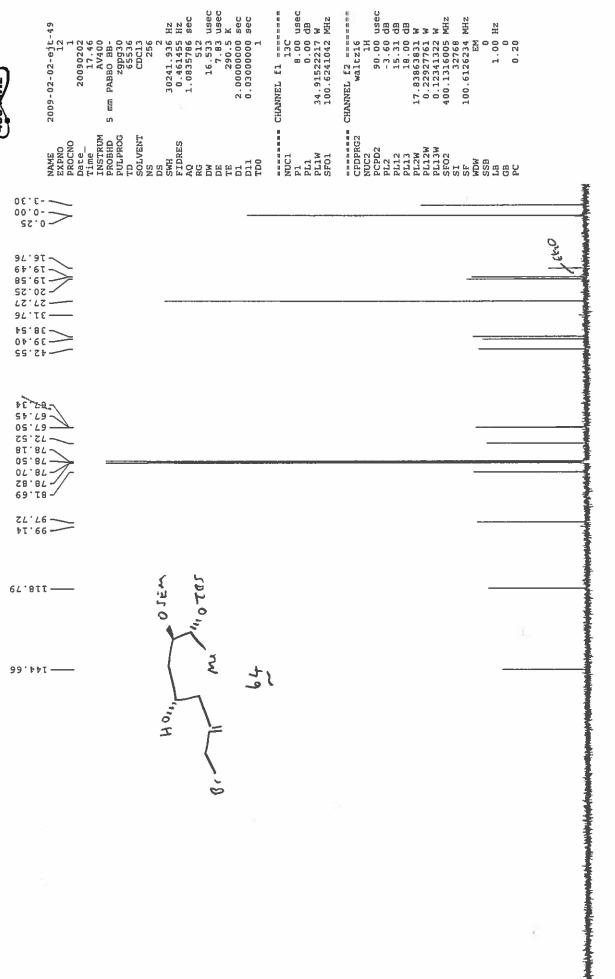


apgtesdeprot mPROTON CDCI3 {e:\bruk400data\2009\Feb} ejt 49



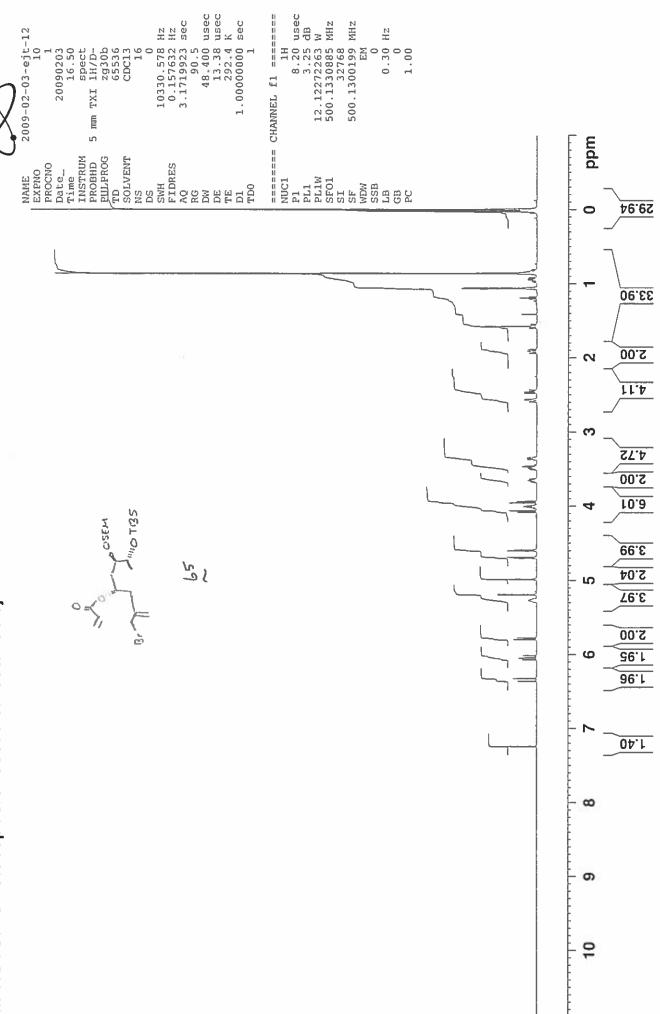


## mCARBON CDCI3 (e:\bruk400data\2009\Feb) ejt 49



mdd





BRUKER	NAME 2009-02-03-ejt-14 EXPNO 10 EROCNO 20090203 Time 17.45 INSTRUM Spect 17.45 INSTRUM Spect 17.45 INSTRUM CONT 11.00-05536 CDC13 NS COLVENT CDC13 NS 29761.904 HZ FIDRES 29761.904 HZ FIDRES 1.1010548 Sec 11.010548 RG 1.1010548 Sec ERG RG 1.	NUC1 13C  P1 1.50 usec  PL1 218.02882385 W  SF01 125.7703643 MHz	CPDPRG2 waltz16 NUC2 80.00 usec PCPD2 80.00 usec PL2 4.20 dB PL13 23.99 dB PL13 9.74092484 W PL12W 0.10223514 W PL13W 0.10223514 W PL13W 0.12841040 W SFO2 500.12841040 W SFO2 500.12841040 W SFO2 500.12841040 W SFO2 500.12841040 W FL13W 0.1023514 W PL13W 0.1023514 W PL13W 0.102376 H PL13W 0.102376 H PL2W 0.102376 H PC 1.00 H PC 1.00 H PC 1.40
mCARBONnight CDCI3 /opt/bruk500data/2009/Feb ejt 14	81.731— 80.51— 60.51— 60.621— 60.75— 75.75— 60.00— 62.76— 62.76— 62.62— 63.42  64.61— 65.62— 65.76— 66.81  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  67.00  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  66.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62  67.62	\s\ \gamma\)	

ppm

50

- 40

- 09

- 8

100

120

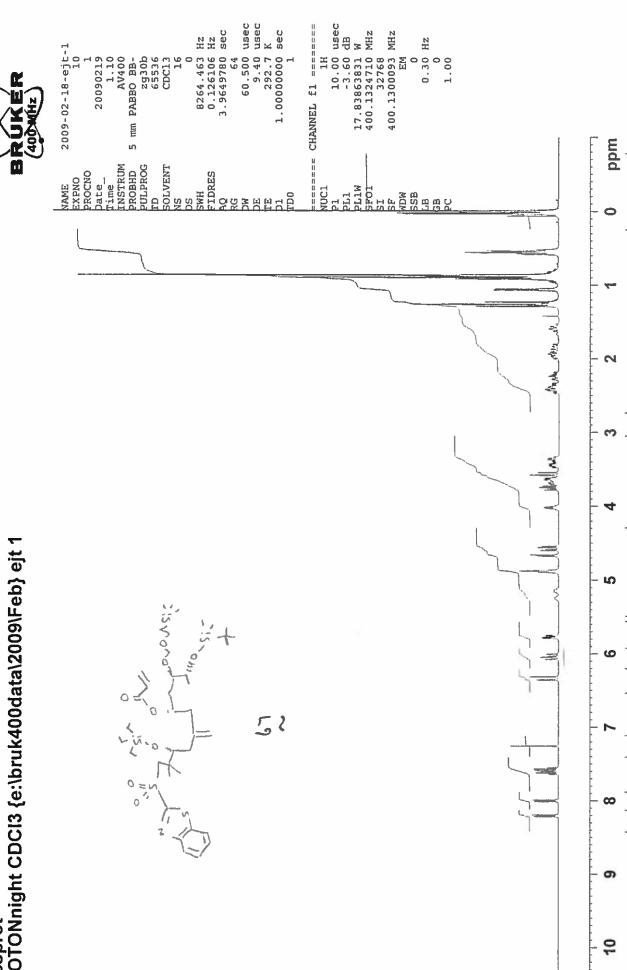
140

160

180



apgtesprot mPROTONnight CDCl3 {e:\bruk400data\2009\Feb} ejt 1



78.er

54.94

91.6

£2.8

0£.1

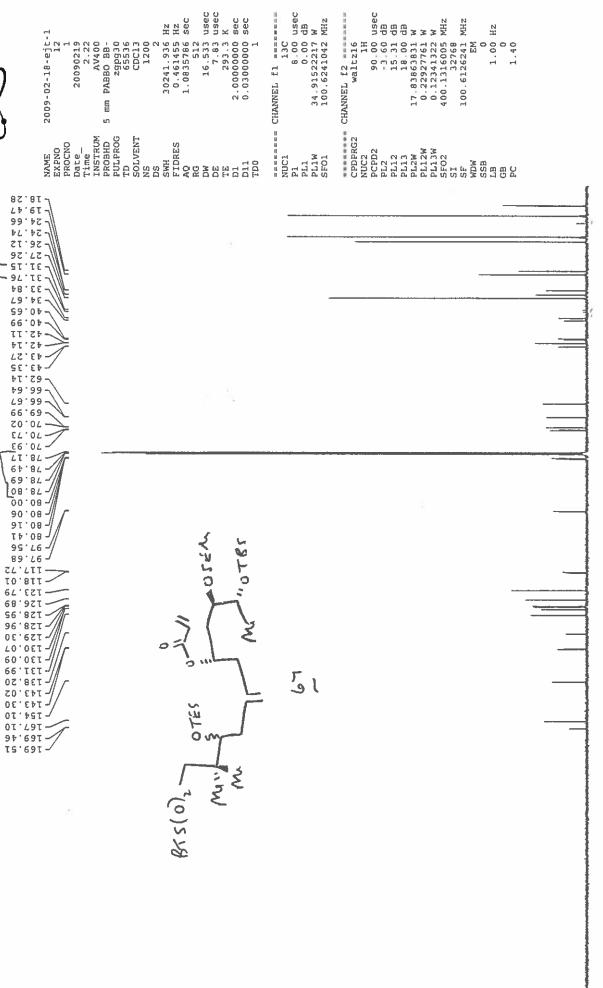
1.28 1.28

28.0

2.59

82.1 82.1

apgtesprot mCARBONnight CDCl3 {e:\bruk400data\2009\Feb} ejt 1

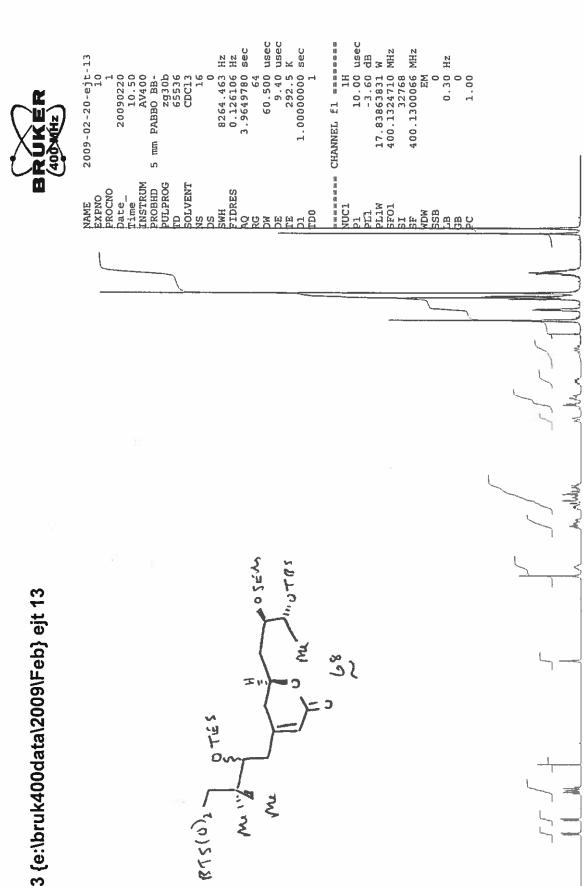


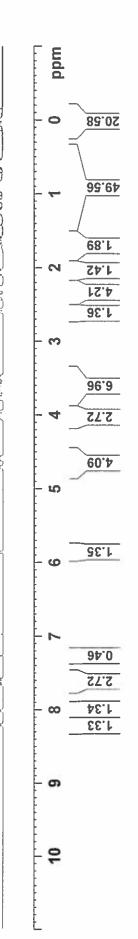
1.00

mdd

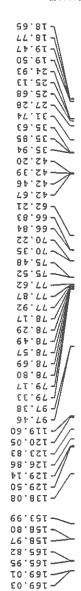


apgmetathesis mPROTON CDCI3 {e:\bruk400data\2009\Feb} ejt 13

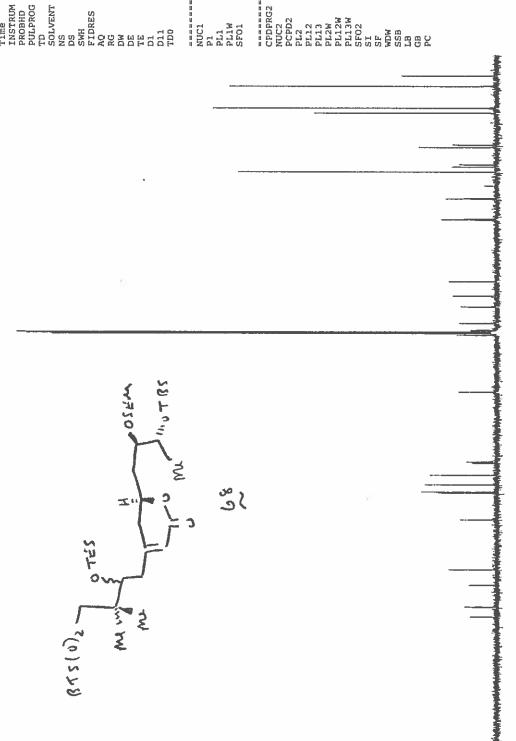




## apgmetathesis mCARBON CDCI3 {e:\bruk400data\2009\Feb} ejt 5







ΉZ

1.00

13C 8.00 usec 0.00 dB 34.91522217 W 100.6241042 MHz

CHANNEL f1



ytisnətni bəsilismovi 0 0 0 70 03 70 03 74

0.95

0.90

0.85

0.80

0.75

0.70

0.65

09.0

0.25

0.30

0.40

0.35

0.20

0.15

0.05

0.045

0.050

0.075

0.070

0.065

0.060

0.055

Vomalised Intensity

0.025

0.020

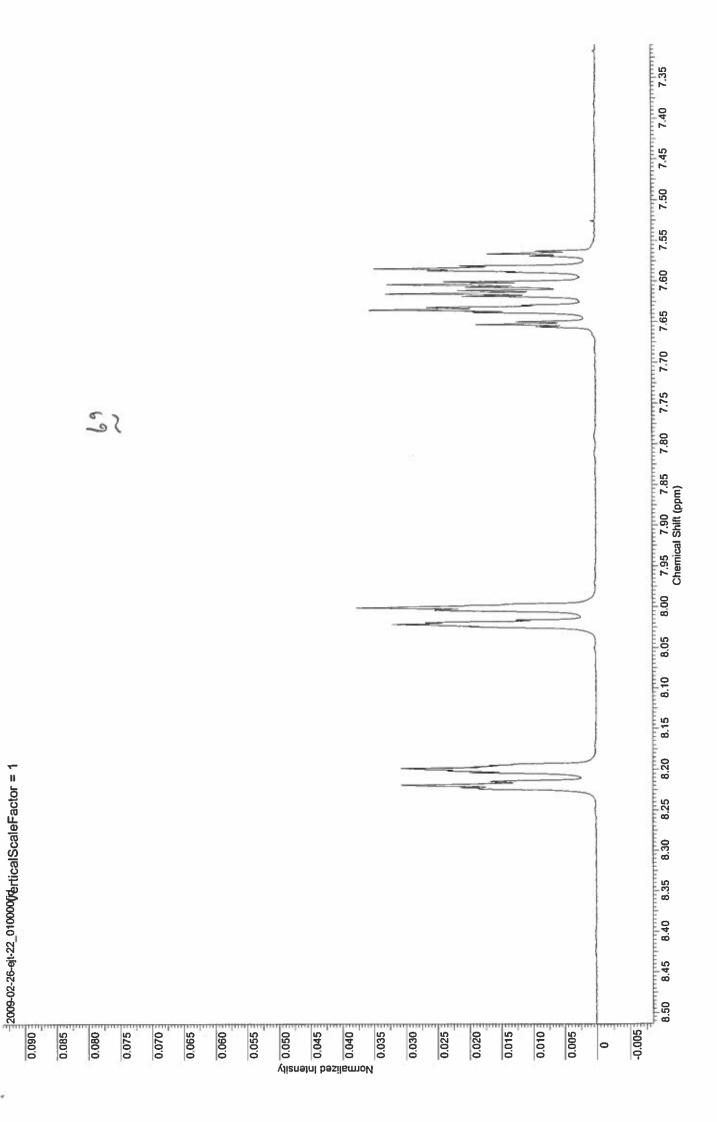
0.015

-0.005

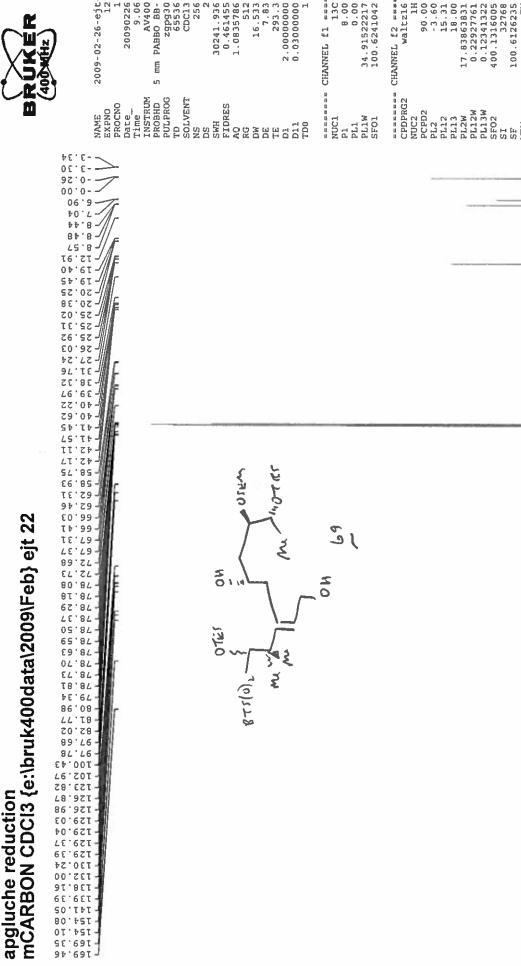
0.005

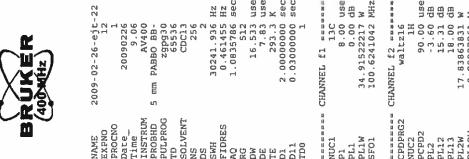
0

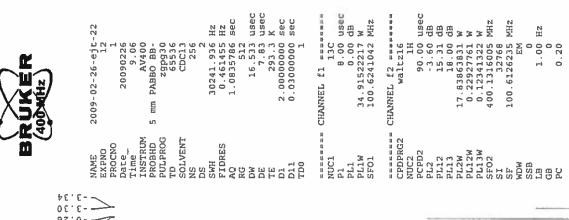
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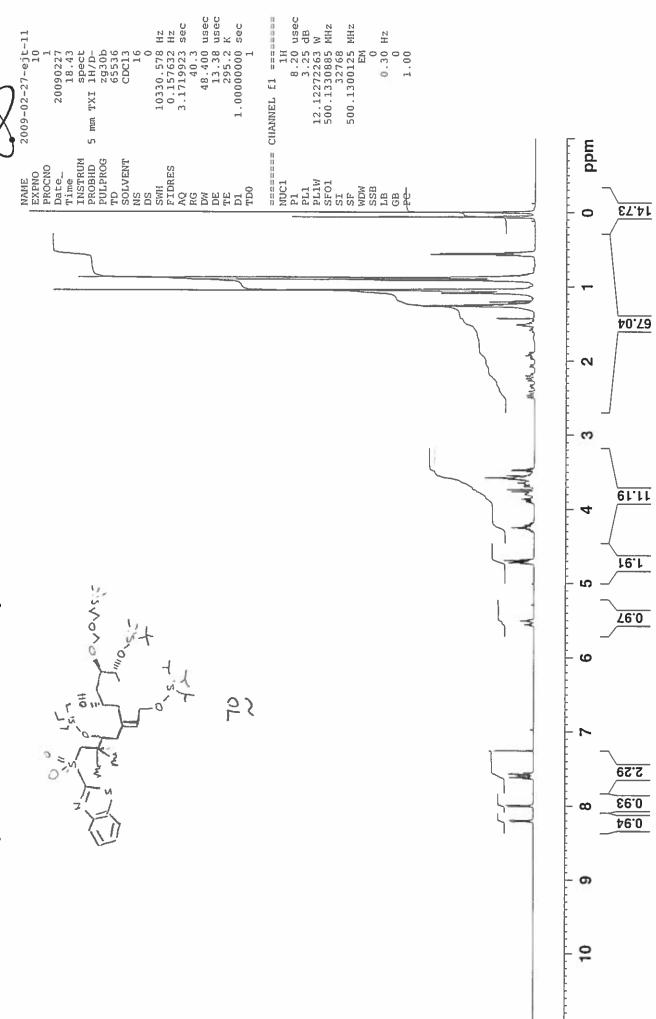
## apgluche reduction mCARBON CDCl3 {e:\bruk400data\2009\Feb} ejt 22



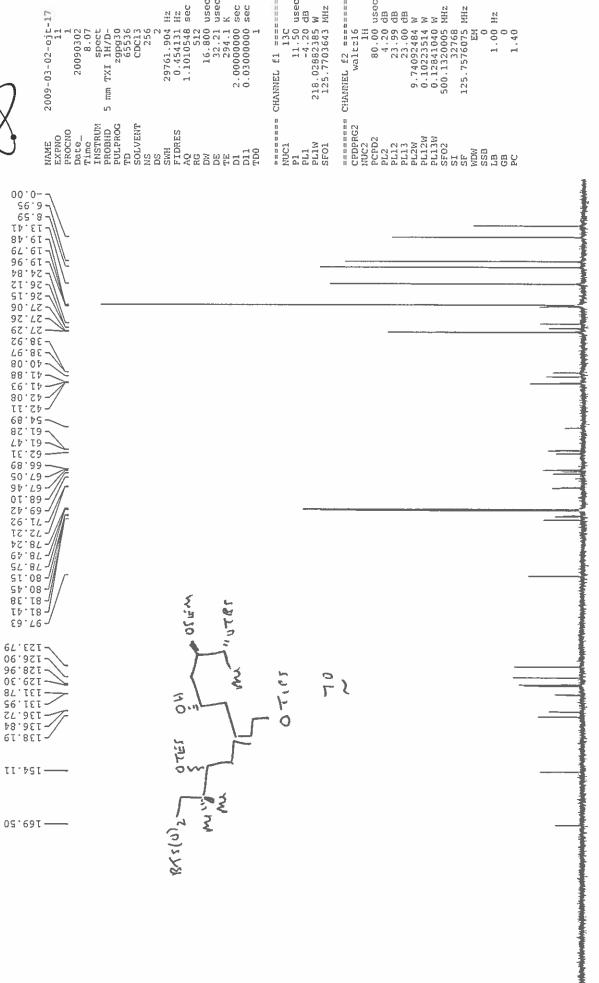




mdd



apgtipsprot mCARBON CDCI3 /opt/bruk500data/2009/Feb ejt 17



10105% 512 16.580 usec 32.21 usec 294.1 K 2.0000000 ser 0.0300000 sf

29761.904 B 0.454131 B 1.1010548

usec dB W MHz

11.50 u -4.20 c 218.02882385 W 125.7703643 P

£3

CHANNEL

MANNEL 12

Waltz16

11

80.00 USec

4.20 dB

23.99 dB

23.99 dB

9.74092484 W

0.1023514 W

0.12841040 W

500.1320005 MHz

125.7576075 MHz

11.00 Hz

0

1.40

mdd

0

20

40

60

80

100

120

140

160

180

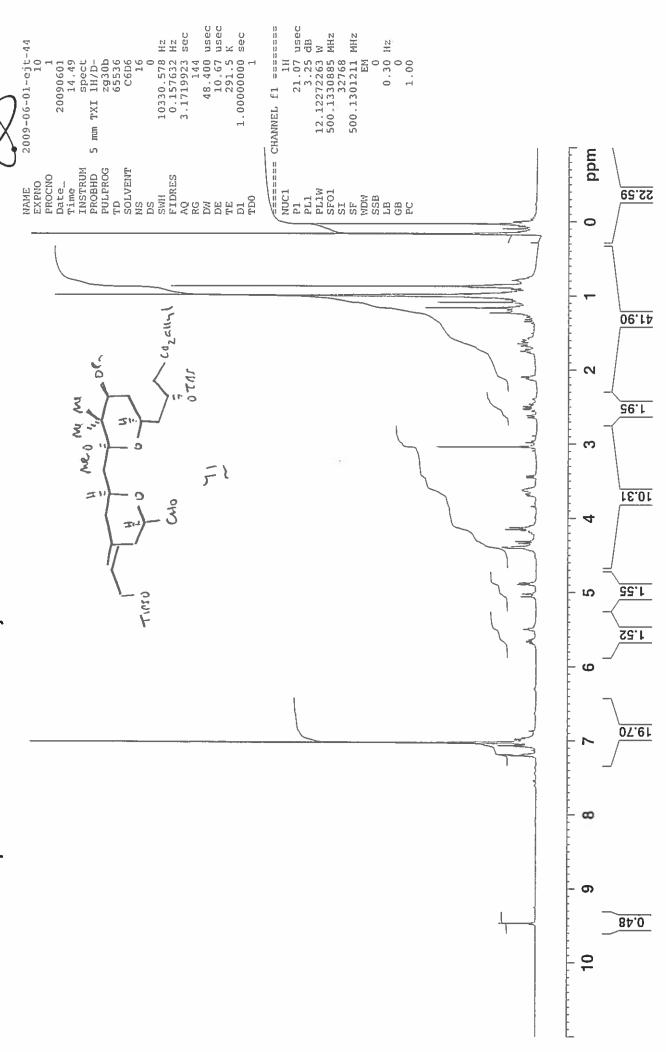
200



2009-03-02-ejt-17

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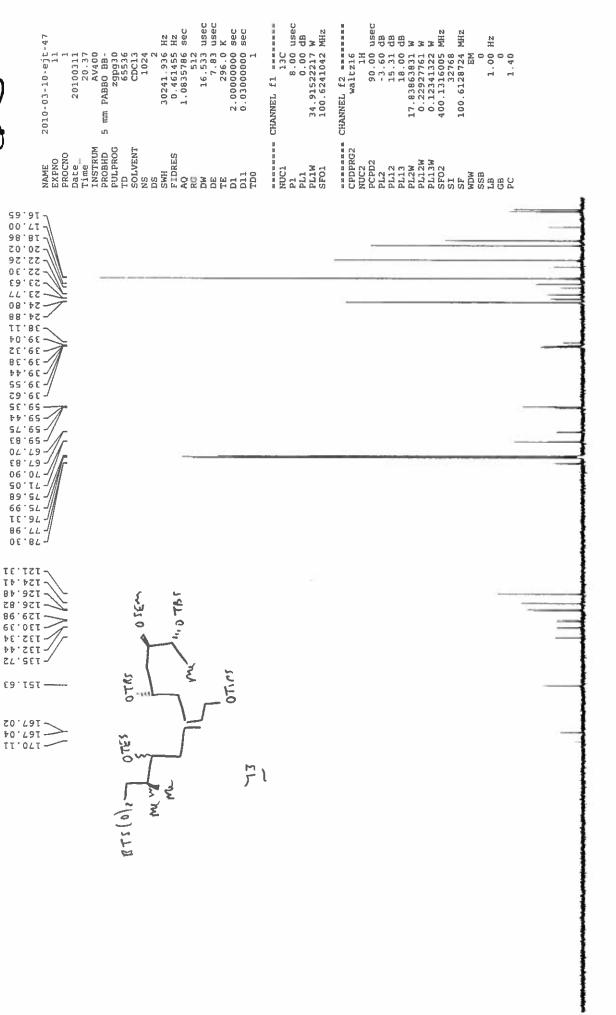
BRUKÉR



60.500 usec 9.40 usec 295.3 K 1.00000000 sec 8264.463 Hz 0.126106 Hz 3.9649780 sec 2009-06-11-ejt-8 20090611 10.36 AV400 5 mm PABBO BB-2930b 65536 C6D6 ppm NAME
EXPNO
PROCNO
Date
Time
INSTRUM
PROBHD
PULPROG
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SOLVENT
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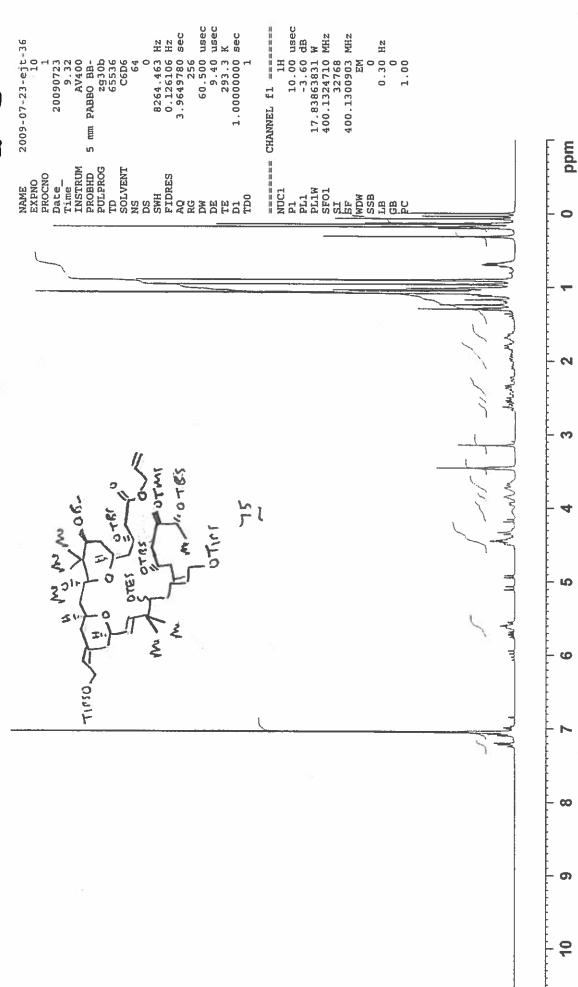
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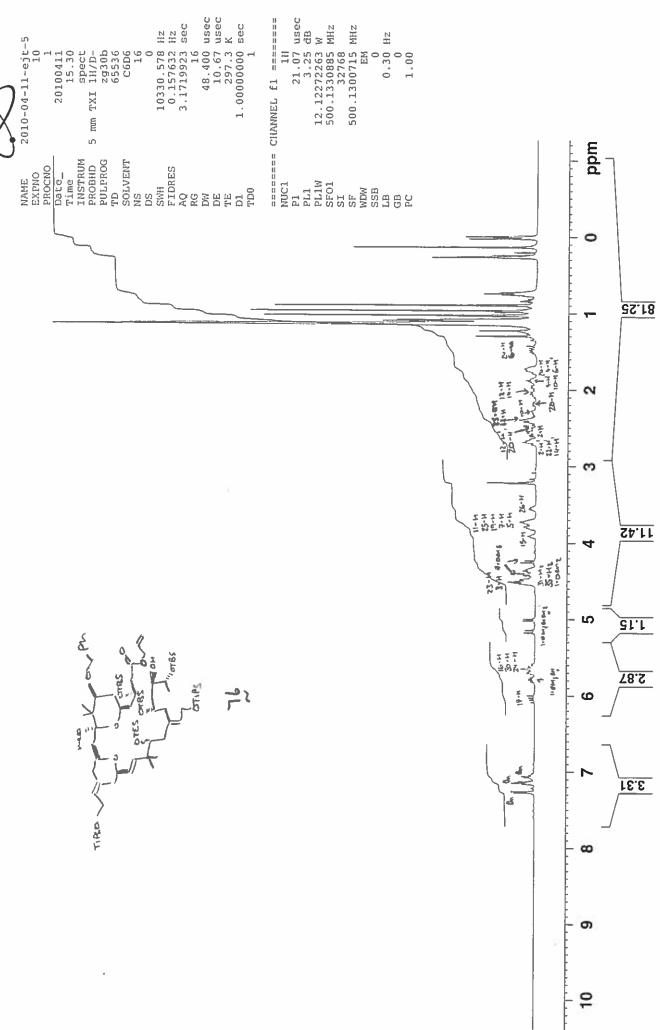
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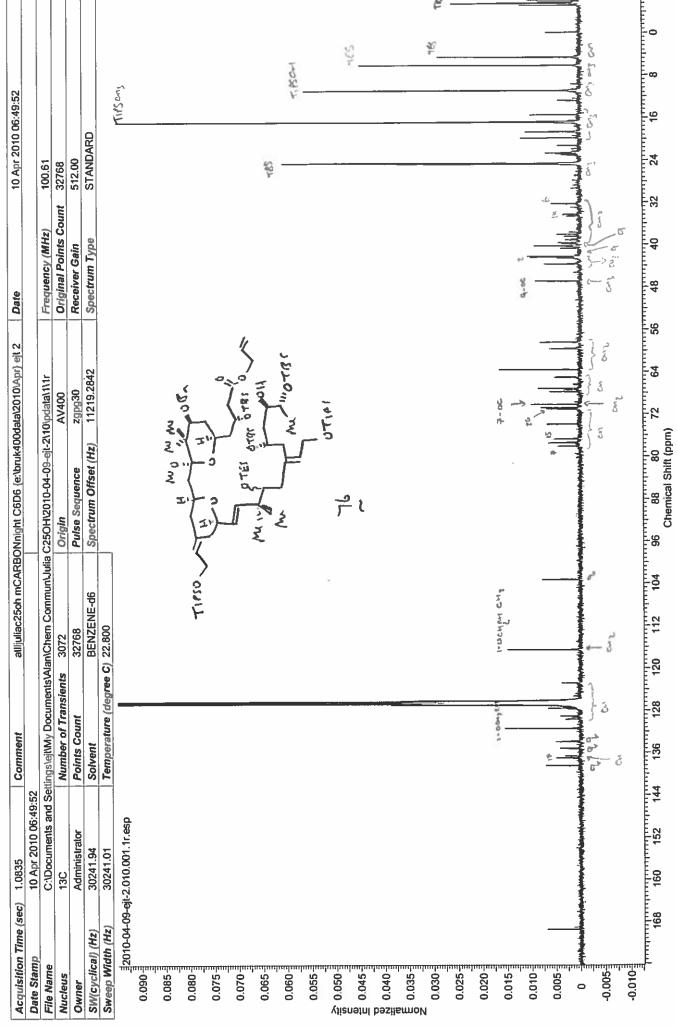
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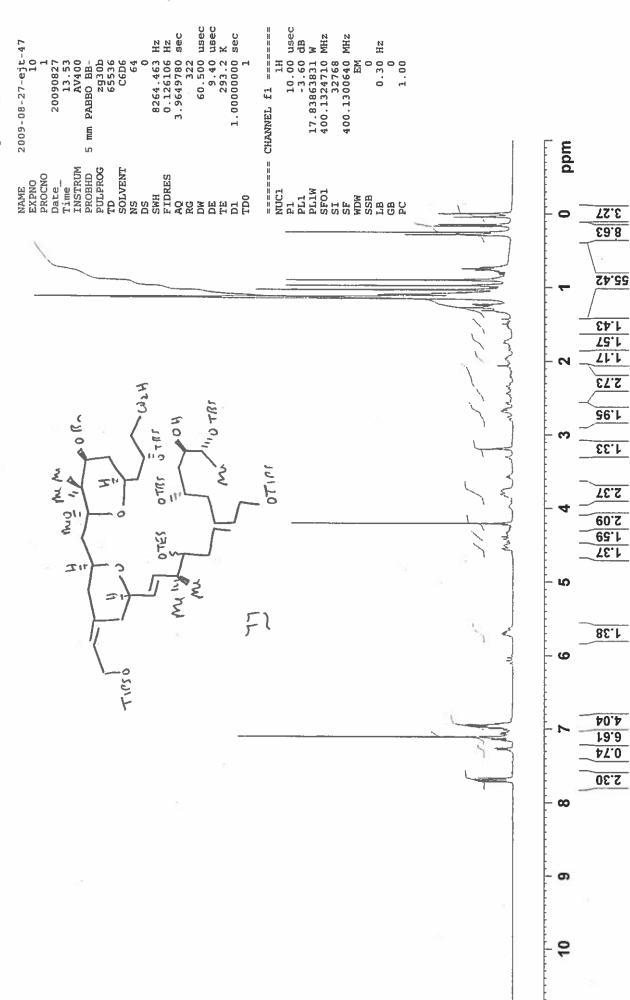
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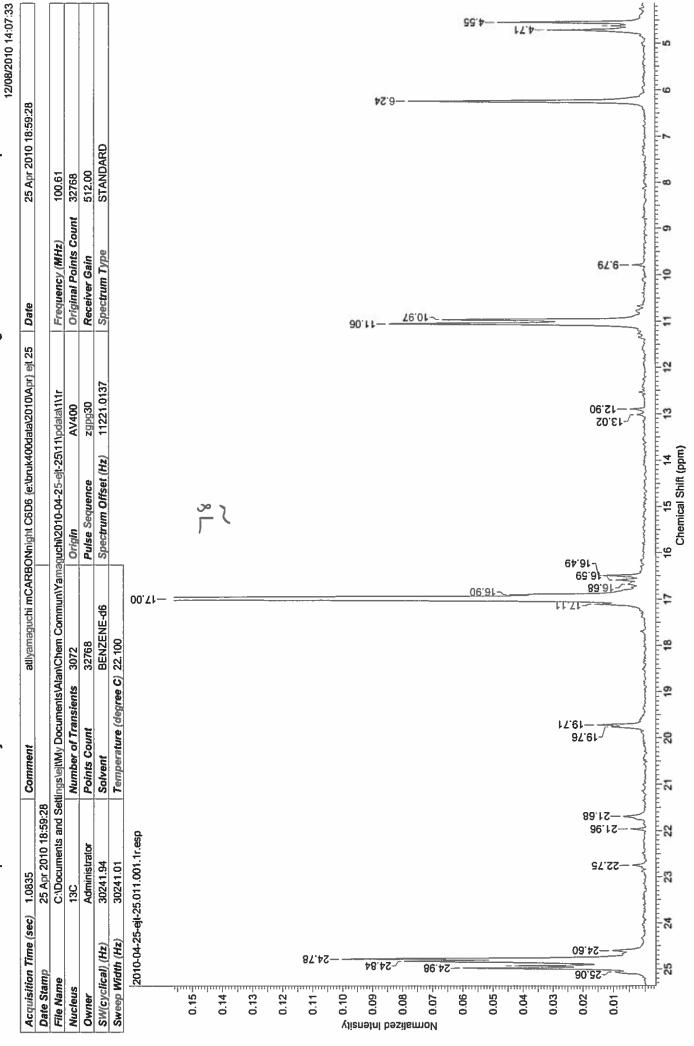
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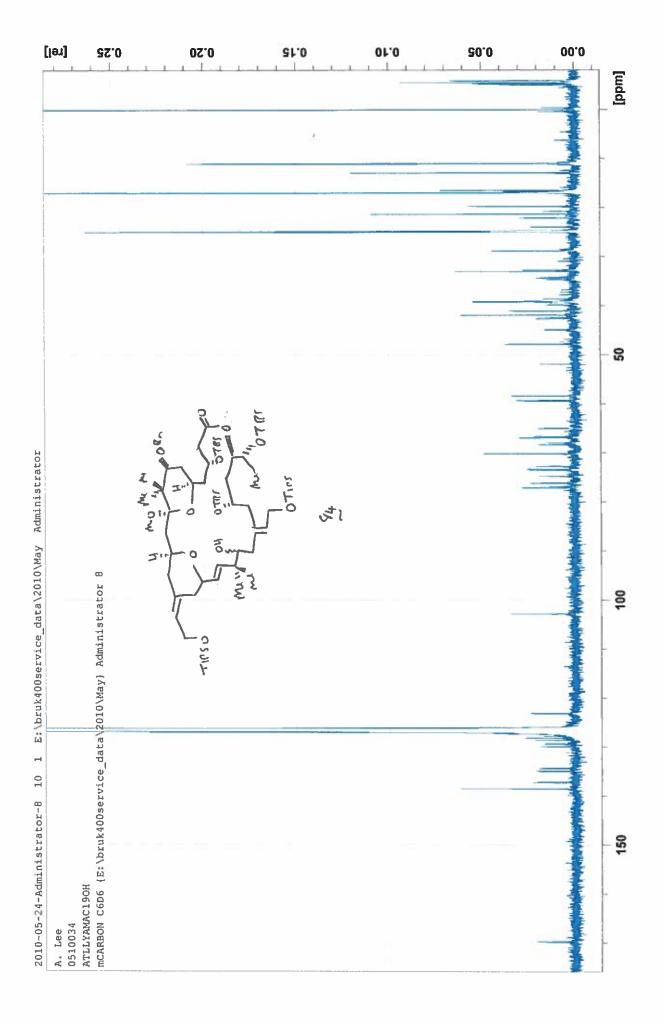
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1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500   1500	Solution   County   Solution   County   Solution   County   Solution   County   Solution   County   Solution   County   Solution   Solution   County   Solution   S	100   141   1121   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111   111	Nucleus	130	Number of Transients	3072	Origin	AV400	Original Points Count	32768	
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30241394 30241394 3024	30241394 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 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3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-1014 3050-10	Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	512.00	
25.9(-25.011.001.11.05.9) 25.9(-25.011.001.11.05.9) 25.9(-25.011.001.11.05.9) 25.9(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.11.05.9) 25.0(-25.011.001.1	25-91-25-071-001-11-889  1-25-07-07-07-07-07-07-07-07-07-07-07-07-07-	25-91-25011-101-11-25-91-25-0011-101-11-25-91-25-0011-101-11-25-91-25-0011-101-11-25-91-25-0011-101-11-25-91-25-0011-101-11-25-91-25-0011-101-11-25-91-25-001-101-11-25-91-25-001-101-11-25-91-25-001-101-11-25-91-25-001-101-11-25-91-25-001-101-11-25-91-25-001-101-11-25-91-25-001-101-11-25-91-25-001-101-11-25-91-25-001-101-11-25-91-25-001-101-11-25-91-25-001-101-11-25-91-25-001-101-11-25-91-25-001-101-11-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-91-25-	SW(cyclical) (Hz)	30241.94	Solvent	BENZENE-d6	Spectrum Offset (Hz)	11221.0137	Spectrum Type	STANDARD	
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Second   S	150 Colormete and Selective Colormete (Manufollo)   150	Acquisition Time (sec)		Comment	atliyamaguchi mCARE	adiyamaguchi mCARBONnight C6D6 (e:\bruk400data\2010\Apr) ejt 25	25 Date	25 Apr 2010 18:59:28
Figure   Colournels and Selection   Colournels	Price   1.00   Pric	Date Stamp	25 Apr 2010 18:59	3:28				
122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   122.00   1	Minches   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150   150	File Name	C:\Documents and	1 Settings\eit\My Documen	Its/Alan\Chem Commun\Yam	naguchii/2010-04-25-ejt-25\11\pdata\1\\1r	Frequency (MHz)	100.61
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Solvent   Solv	Secretary   Secr	Owner	Administrator	Points Count	32768		Receiver Gain	512.00
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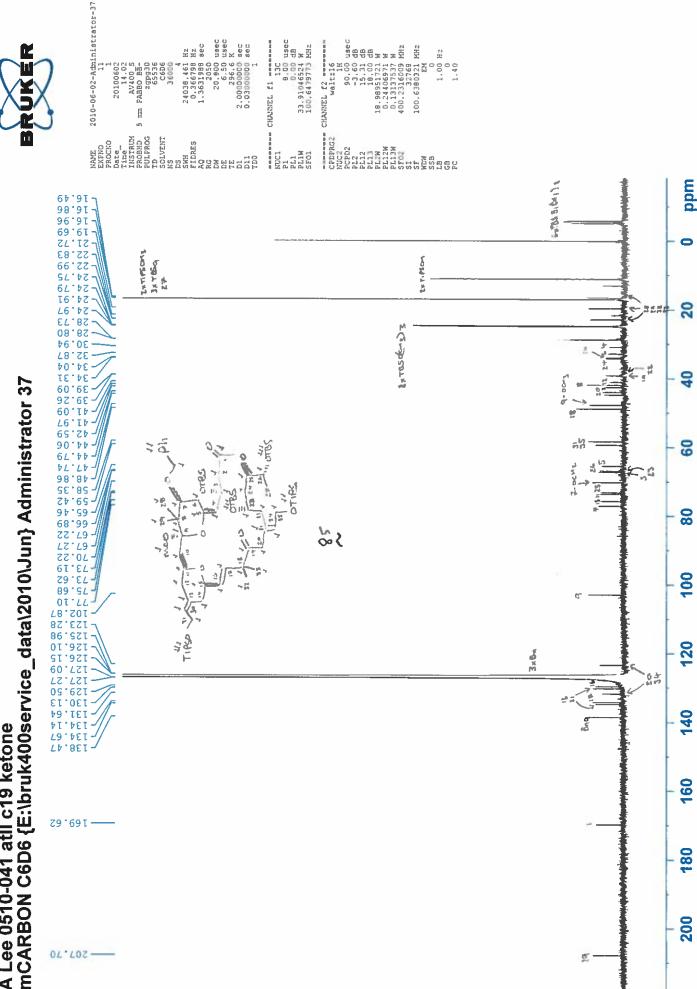
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Date Stamp	25 Apr 2010 18:59:28	28						
File Name	C:\Documents and {	Settings\ejt\My Documer	nts/Alan/Chem Commun/Yama	110-04-25-ejt-25/11	lata\1\1r	Frequency (MHz)	100.61	
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Owner	Administrator	Points Count	32768		zgpg30	Receiver Gain	512.00	
SW(cyclical) (Hz)	30241.94	Solvent	BENZENE-d6	Spectrum Offset (Hz) 11	11221.0137	Spectrum Type	STANDARD	
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10.00 usec -3.60 dB 17.83863831 W 400.1324710 MHz 32768 400.1300000 MHz EM 0 228 60.500 usec 9.40 usec 293.8 K 1.00000000 sec 8264.463 Hz 0.126106 Hz 3.9649780 sec CHANNEL fl ======= 2010-05-30-ejt-9 20100530 18.01 AV400 5 mm PABBO BB-2930b 65536 C6D6 128 mdd MUC1
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atlllactonec19ketone mPROTONnight C6D6 {e:\bruk400data\2010\May} ejt 9

A Lee 0510-041 atll c19 ketone mCARBON C6D6 {E:\bruk400service\_data\2010\Jun} Administrator 37





atllacoh/tbaf mPROTON C6D6 /opt/bruk500data/2010/May ejt 15

10330.578 Hz 0.157632 Hz 3.1719923 sec

zgesgp 65536 C6D6

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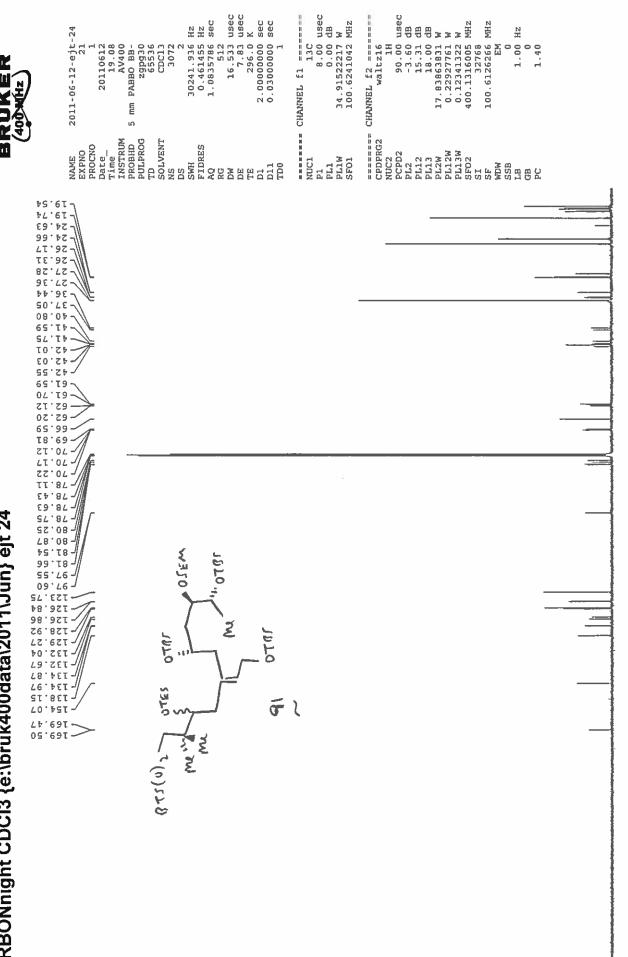
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atlliactoneketonetbafacoh2 mPROTONnight C6D6 /opt/bruk500data/2010/Jul ejt 29

1 = 1H 10.00 usec -3.60 dB 80.6 60.500 usec 9.40 usec 17.83863831 W 400.1324710 MHz 32768 400.1300133 MHz EM 8264.463 Hz 0.126106 Hz 3.9649780 sec CHANNEL fl ======= 295.2 K 1.000000000 sec 0.30 Hz 0.100 2011-06-12-ejt-24 20110612 16.00 AV400 5 mm PABBO BB-2930b 65536 CDC13 mdd NAME EXPNO PROCNO Date Time INSTRUM PROBHD ₽L.9Z الإ 5.73 F0.84 2.45 0.46 1.02 70.32 A Maria Maria £7.8 26.1 86.0 **68.**↑ ₽6:0 OTES 0785 9 52 16.1 4 ١6.0 19 19 <u>re.o</u> 6 9

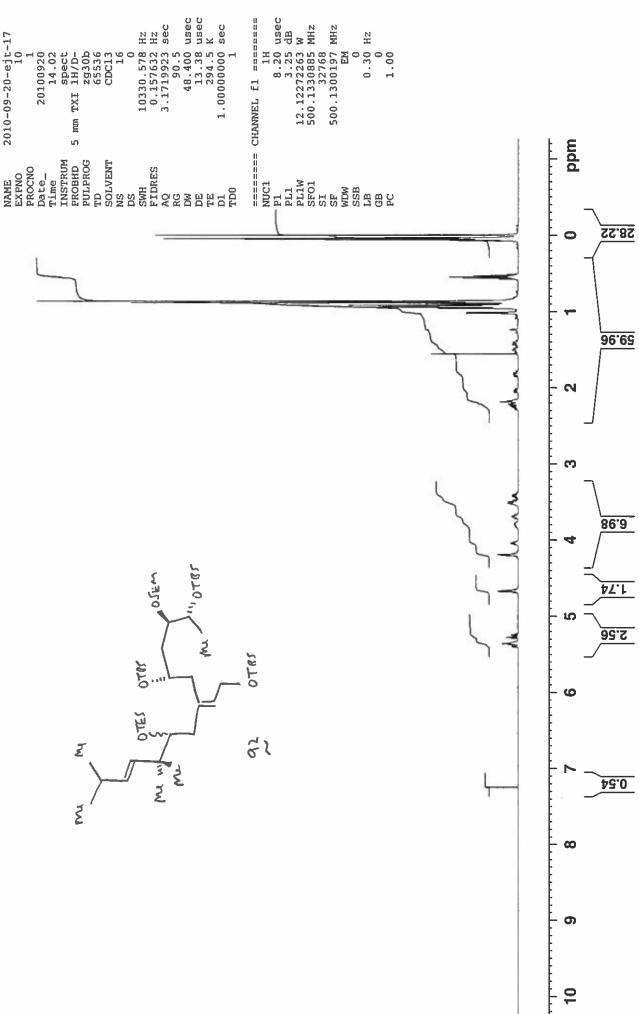
atllc17c27tristbssulfone mPROTON CDCI3 {e:\bruk400data\2011\Jun} ejt 24

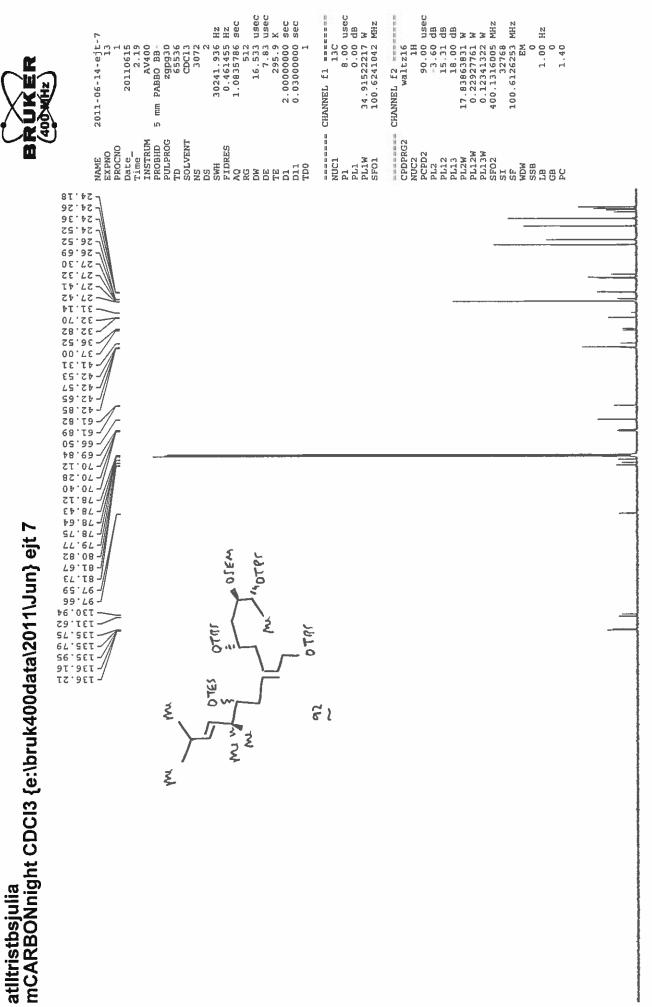
## atllc17c27tristbssulfone mCARBONnight CDCl3 {e:\bruk400data\2011\Jun} ejt 24



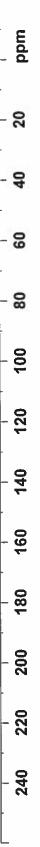
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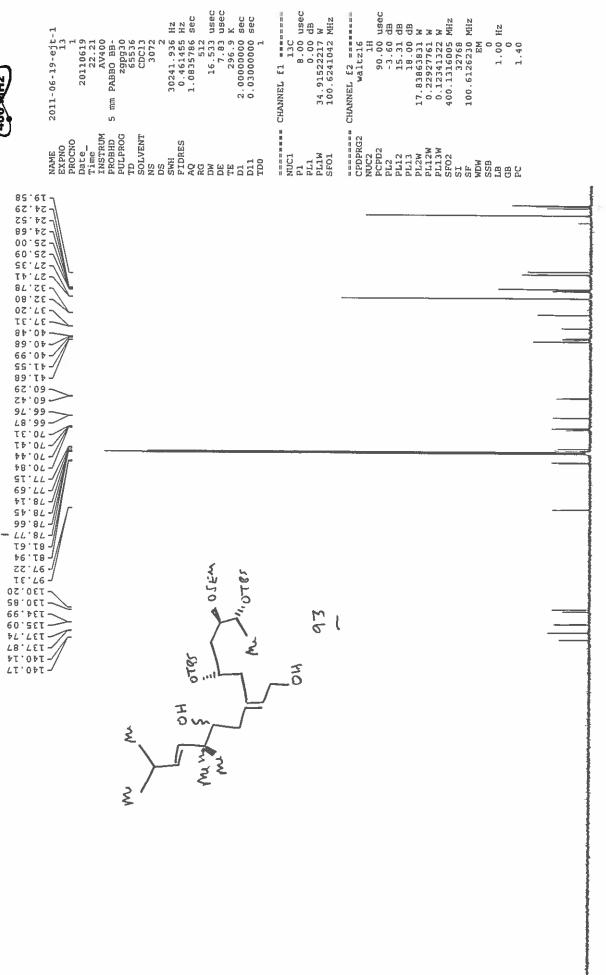








mCARBONnight CDCI3 {e:\bruk400data\2011\Jun} ejt 1



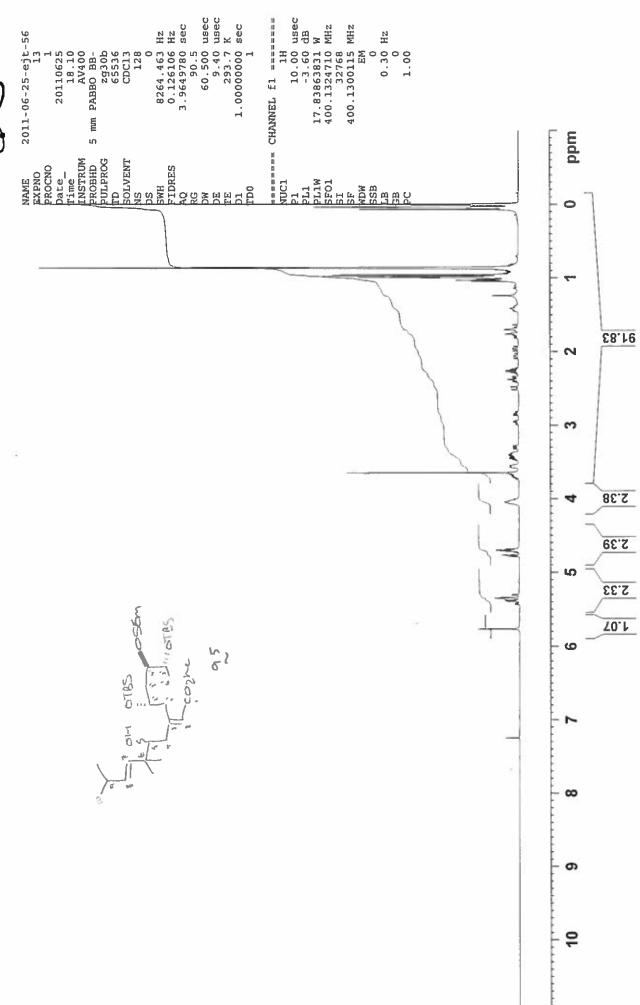
mdd

16.533 usec 7.83 usec



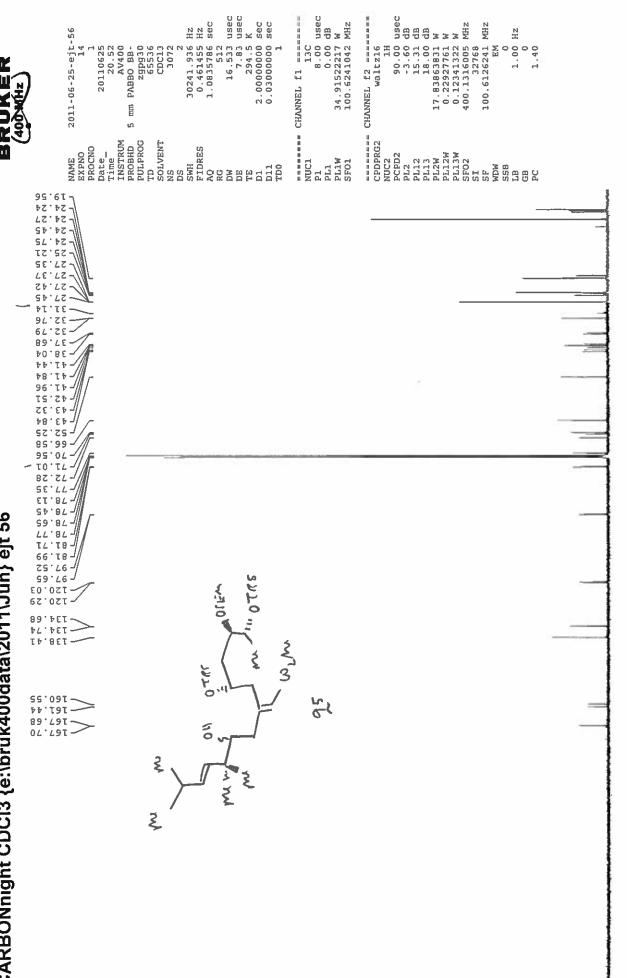
22.21 AV400

atilhydroyenoate mPROTONnight CDCI3 {e:\bruk400data\2011\Jun} ejt 56



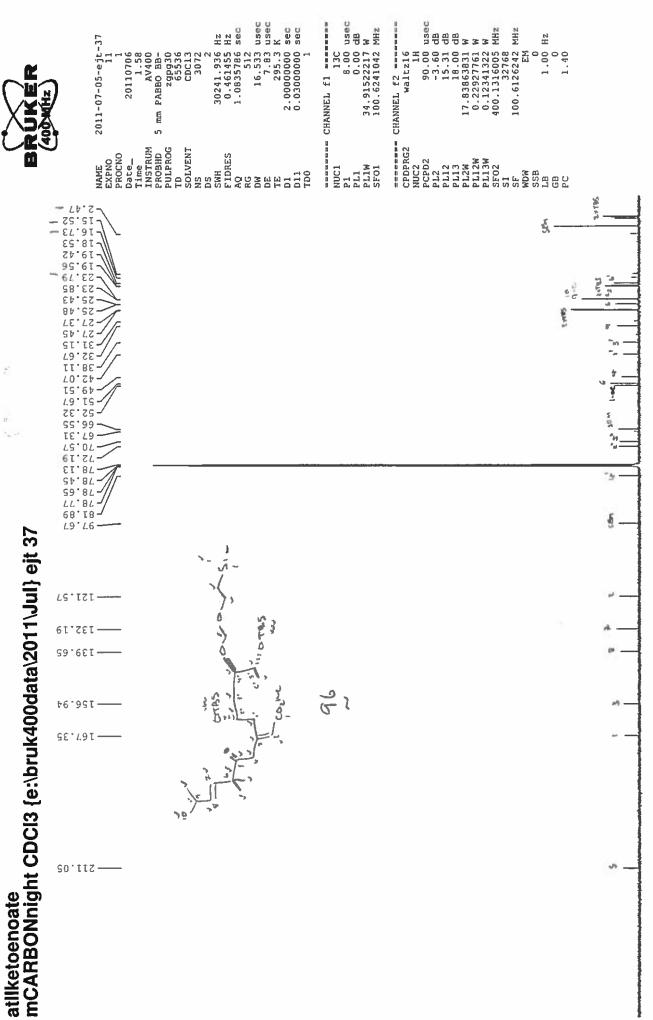


## atlihydroyenoate mCARBONnight CDCI3 {e:\bruk400data\2011\Jun} ejt 56



ppm





mdd



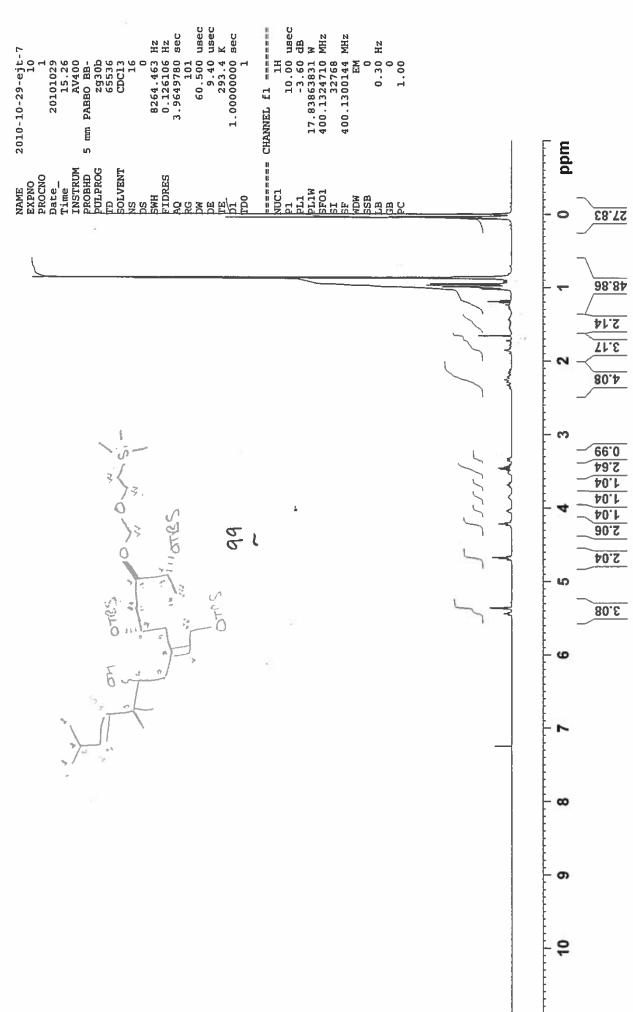
10.00 usec -3.60 dB 32768 400.1300124 MHz EM 8264.463 Hz 0.126106 Hz 3.9649780 sec 60.500 usec 9.40 usec 292.1 K 1.00000000 sec 17.83863831 W 400.1324710 MHz 0.30 Hz 0.30 Hz 2011-09-17-ejt-41 20110917 19.51 AV400 5 mm PABBO BB-2930b 65536 CDC13 128 ppm NAME EXPNO PROCNO Date Time INSTRUM PROBHD PULPROG ID NS DS SWH FIDRES P1 PL1 PL1W SF01 SI SI MDW MDW SSB CB 24.24 1 ( -- ) 66.84 Structure of the 2 = in 10 70.81 atllenolethermodel mPROTONnight CDCI3 {e:\bruk400data\2011\Sep} ejt 41 8£.£ LO 20.9 2 2 2 2 9 5 **67.0** 09:0 œ 6 9

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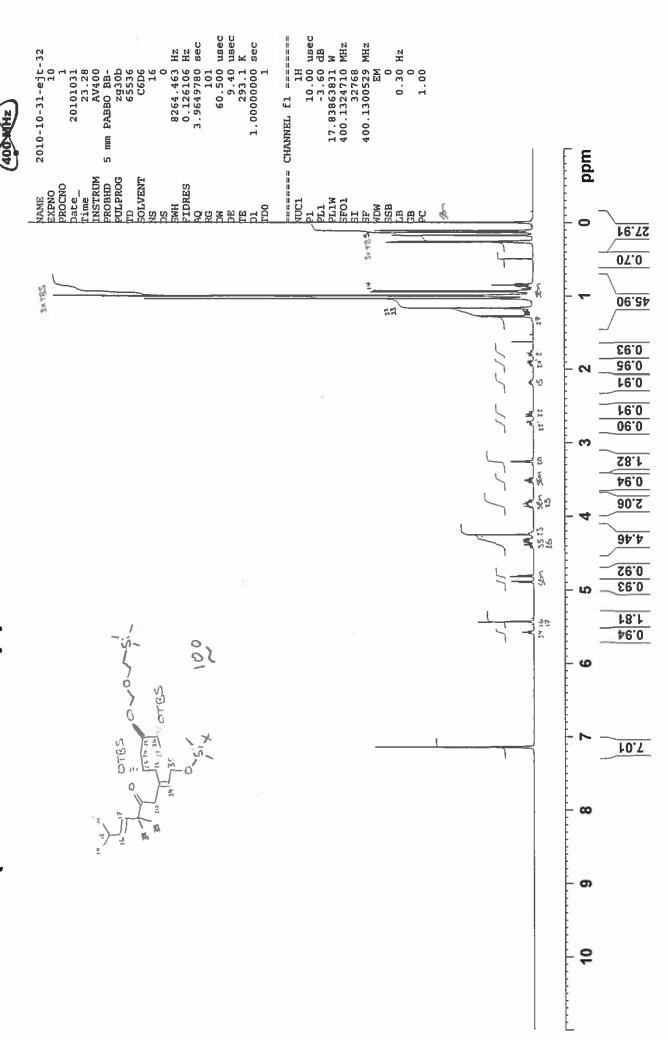
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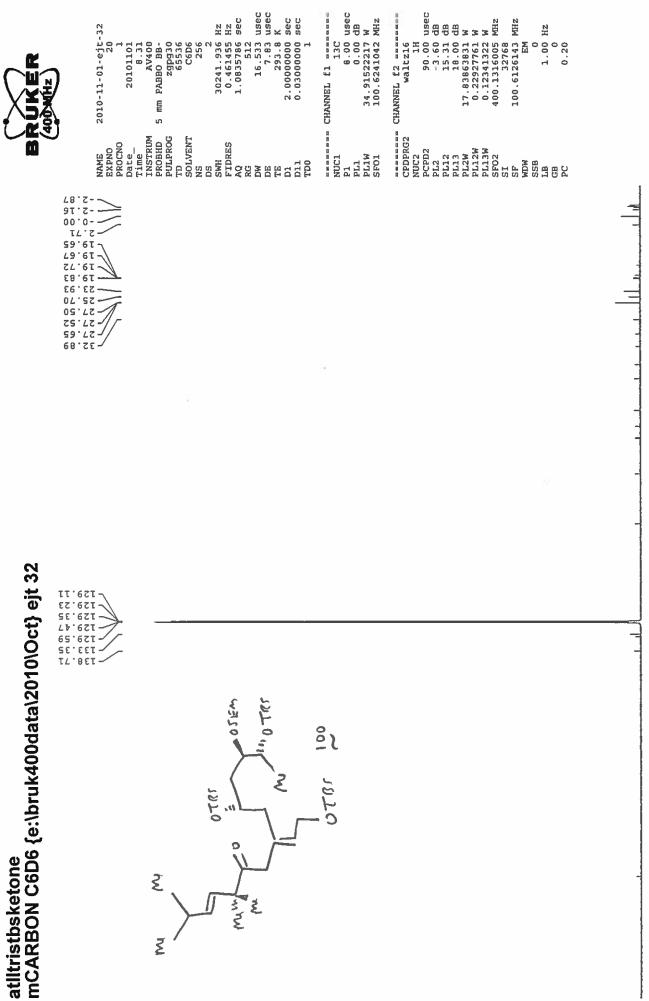
atlitbscl mPROTON CDCI3 {e:\bruk400data\2010\Oct} ejt 7





atlltristbsketone mPROTON C6D6 {e:\bruk400data\2010\Oct} ejt 32





ppm

406 60.500 usec 9.40 usec 293.1 K 1.00000000 sec 10.00 usec -3.60 dB 17.83863831 W 400.1324710 MHz ------ CHANNEL fl ======== UC1 1H 1 10 00 ..... 8264.463 Hz 0.126106 Hz 3.9649780 sec 32768 400.1300364 MHz EM 2010-11-05-ejt-11 20101105 11.45 11.45 AV400 5 mm PABBO BB-2930b 65536 CDC13 ppm NAME EXPNO EKOCNO ate ime INSTRUM EROBHD ID SOLVENT WH LIN FOI SEB CBB 21.30 \$8.0 \$1.1 \$1.1 \$1.1 \$6.0 \$1.11 \$1.11 2.20 68.0 06.9 51 16.0 2.66 atlltristbsketonetbaf1 mPROTON CDCI3 {e:\bruk400data\2010\Nov} ejt 11 **62.2** 72.2 1.56 £1.1 4.20 9

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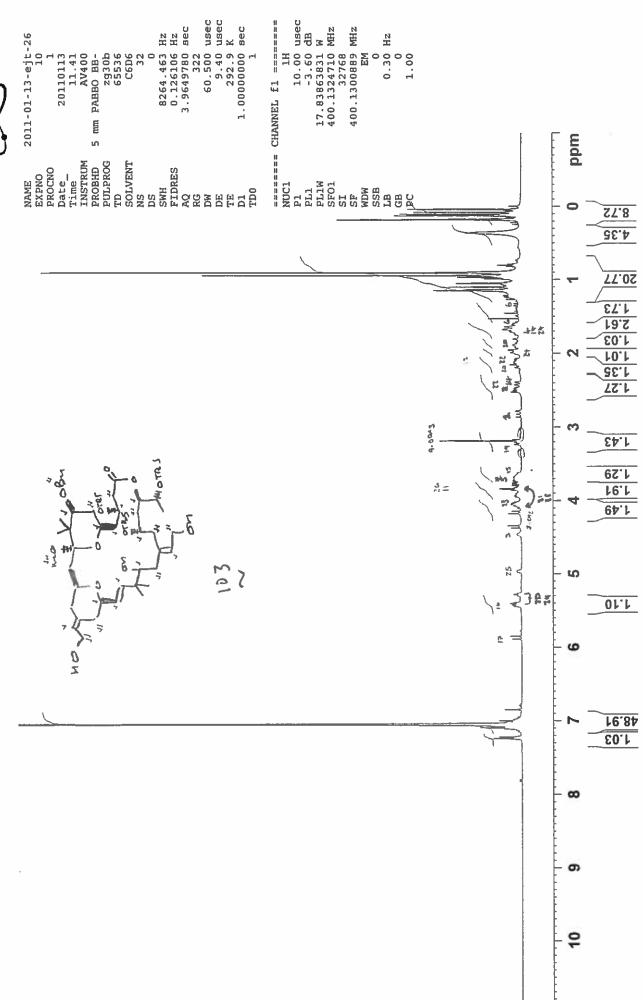
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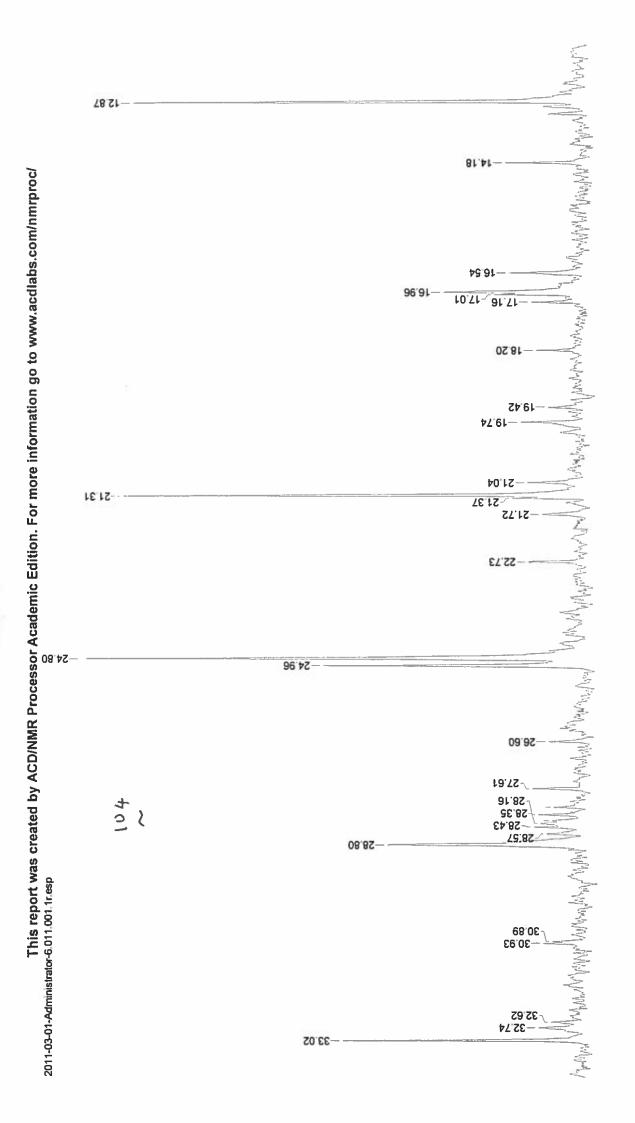
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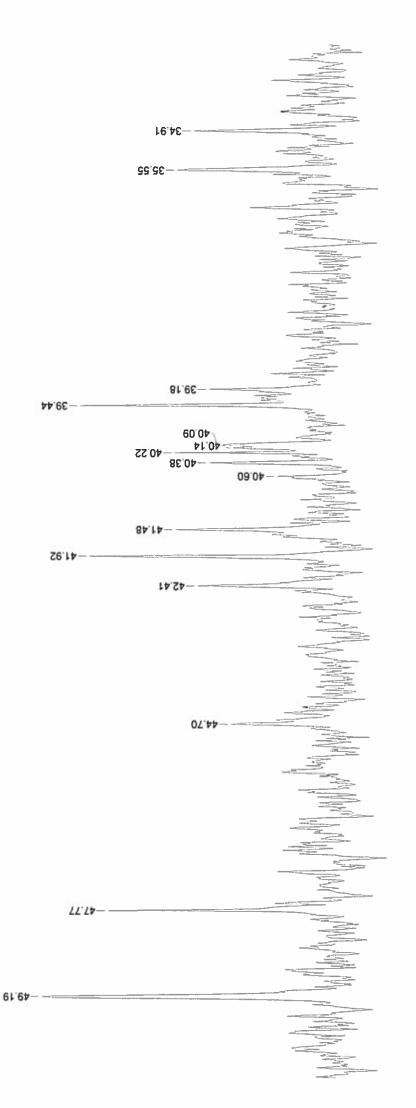
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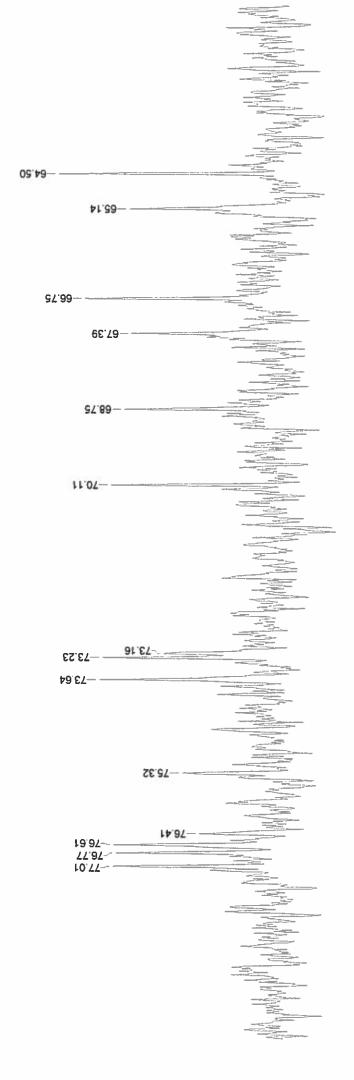
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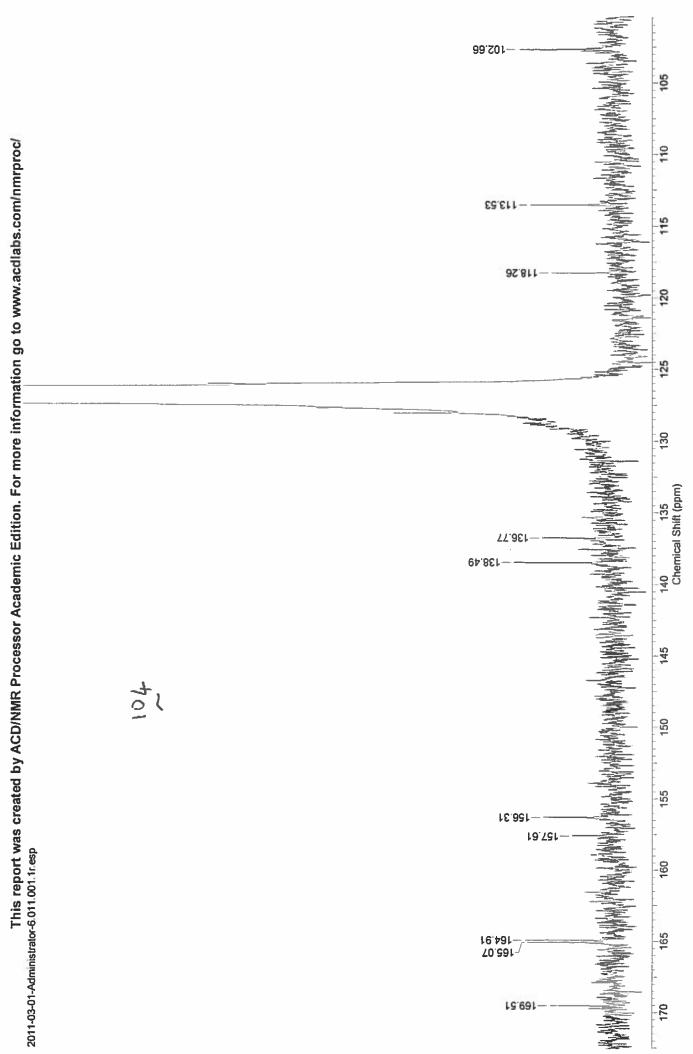
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71 70 Chemical Shift (ppm)

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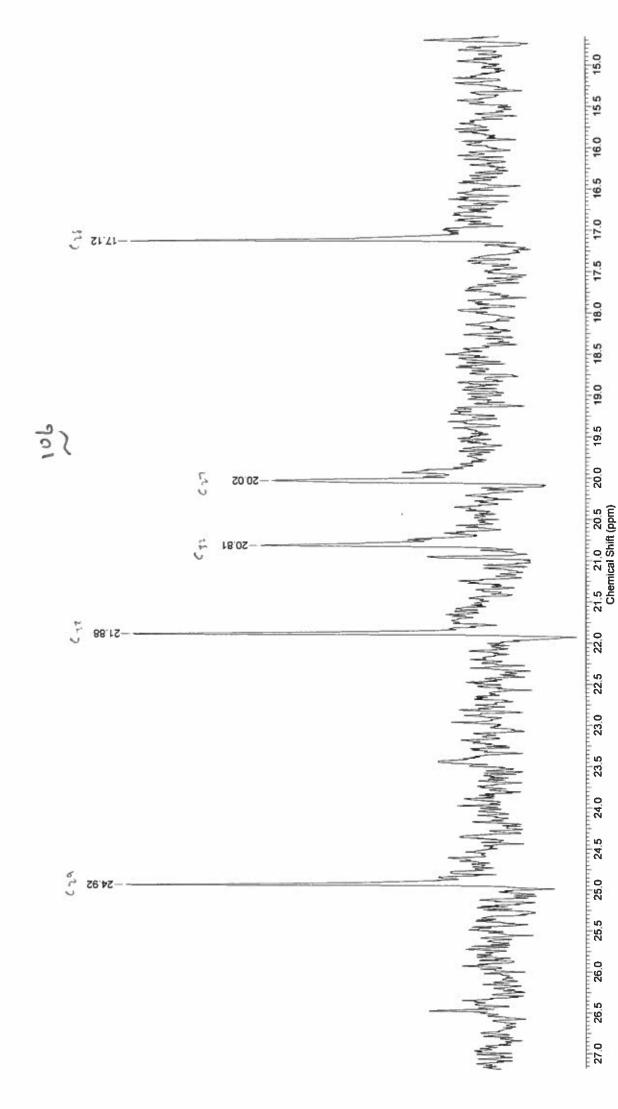
ANNNE, 11 21.07 usec 3.25 dB 12.12272263 W 500.1330885 MHz 32768 500.1301088 MHz 48.400 usec 10.67 usec 296.4 K 10330.578 Hz 0.157632 Hz 3.1719923 sec 0.30 Hz 0 1.00 296.4 K 1.00000000 sec 2011-04-12-ejt-54 20 20110413 0.19 spect FXI 1H/D-2930b 65536 C6D6 2048 BRUKER CHANNEL f1 5 mm TXI ppm NUCCI P1 PL1 PL1W SF01 SI SF WDW SSB LB GB 02 × 14 - West 2 100.001 ന atll7-obnb10 mPROTONnight C6D6 /opt/bruk500data/2011/Apr ejt 54 5 Chy Mez Olt اه ع < 0 · à 9 1 BENTENE 8 81 20 2 2/2 F28 6 ちゅのからするない。 でしている 日本日 はいないない からって

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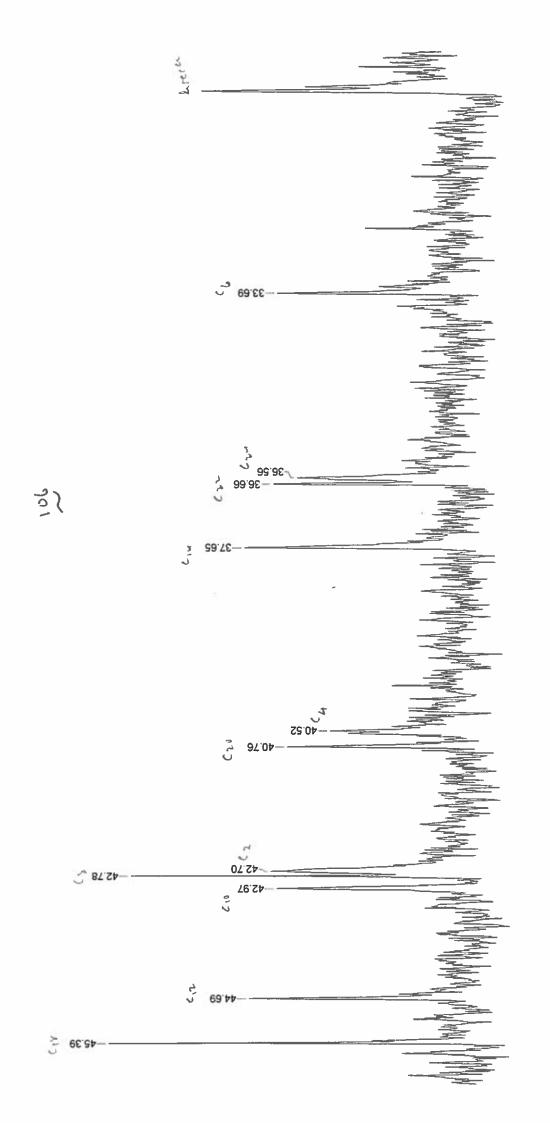
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This report was created by ACD/NMR Processor Academic Edition. For more information go to www.acdlabs.com/nmrproc/ 2011-03-29-Administrator-61 011 001 1r esp



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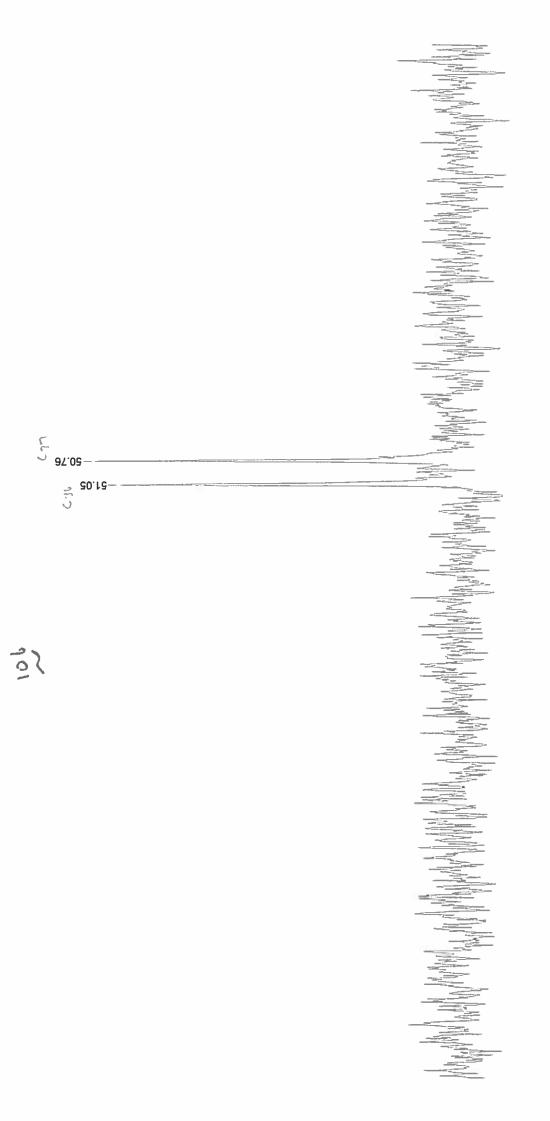
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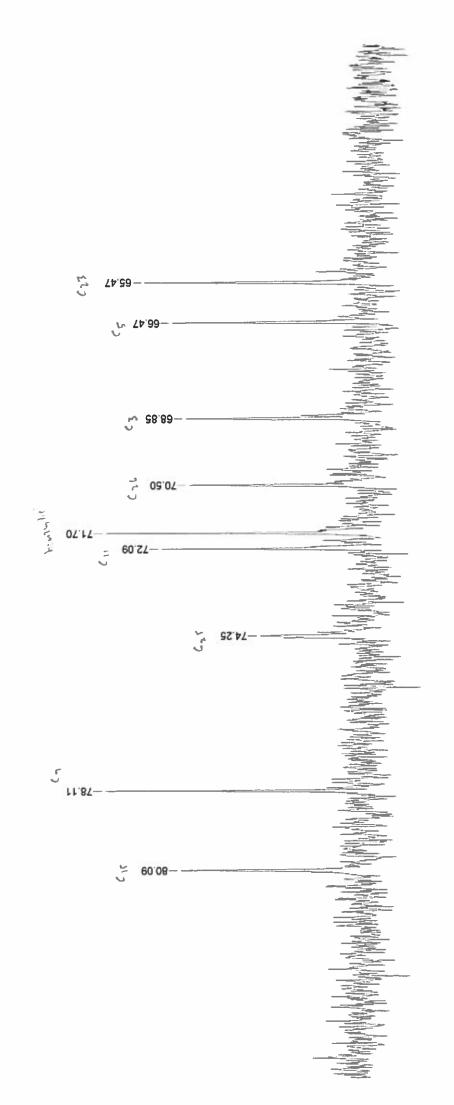
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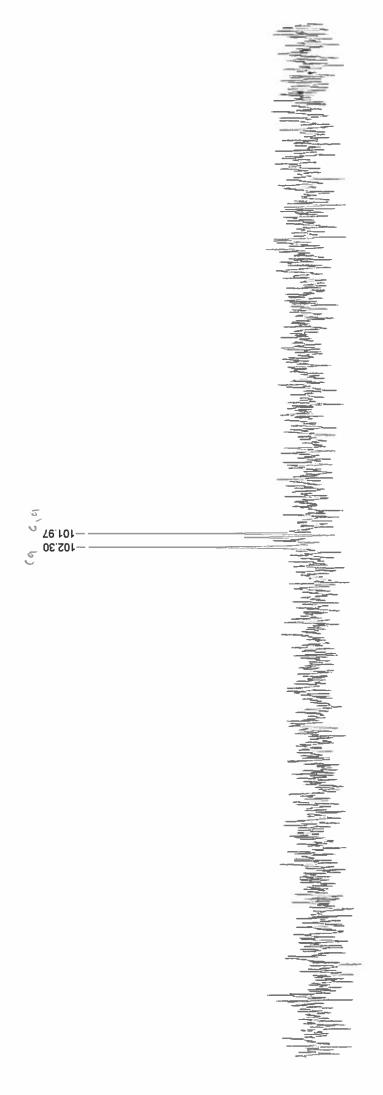
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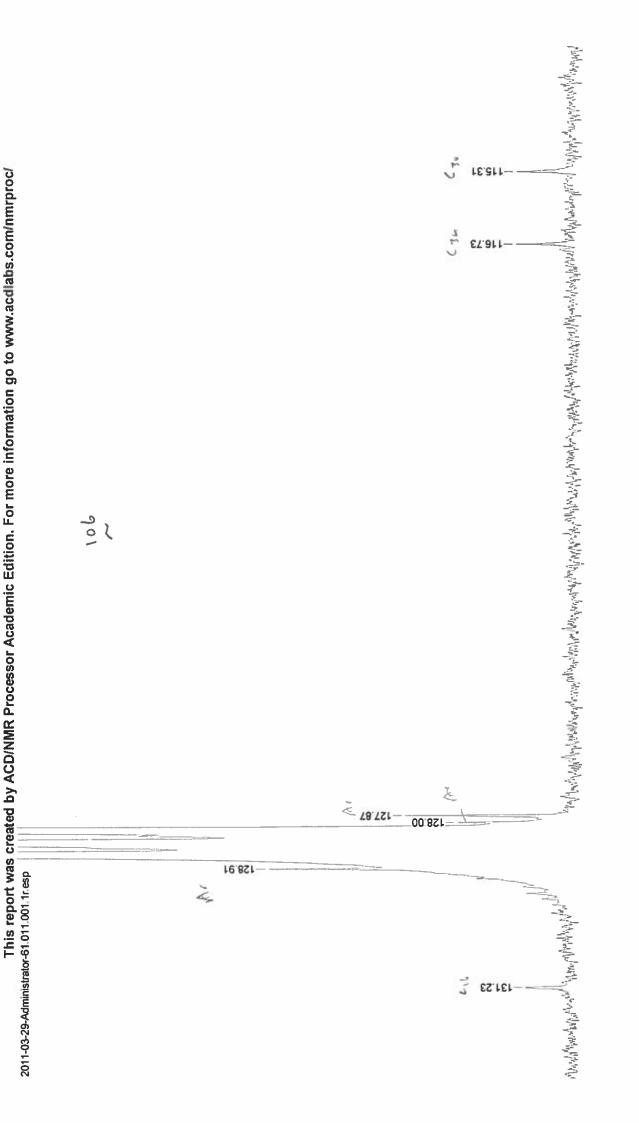




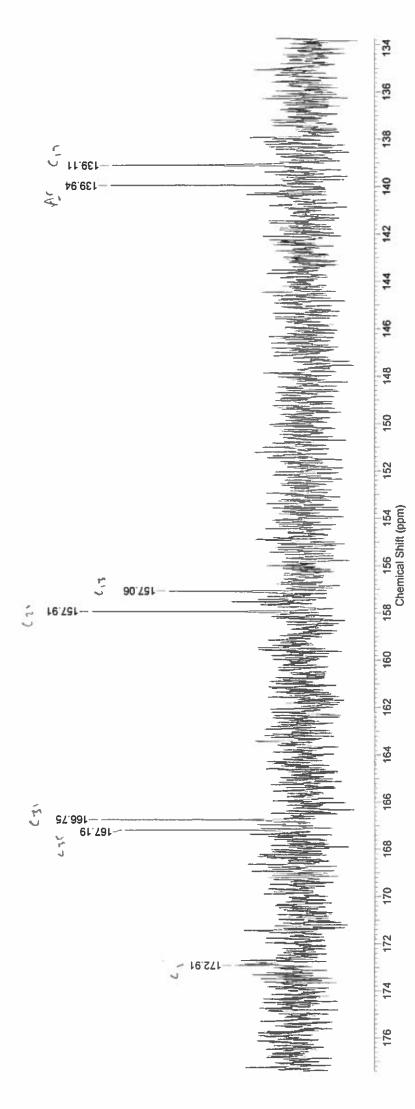
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