

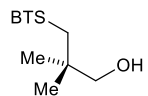
## **Towards 20,20-difluorinated bryostatin: synthesis and biological evaluation of difluorinated C17,C27-fragments**

Paul R. Mears, Steven Hoekman, Claire E. Rye, Fiona P. Bailey, Dominic P. Byrne, Patrick A. Eyers and Eric J. Thomas\*

### **Supplementary data**

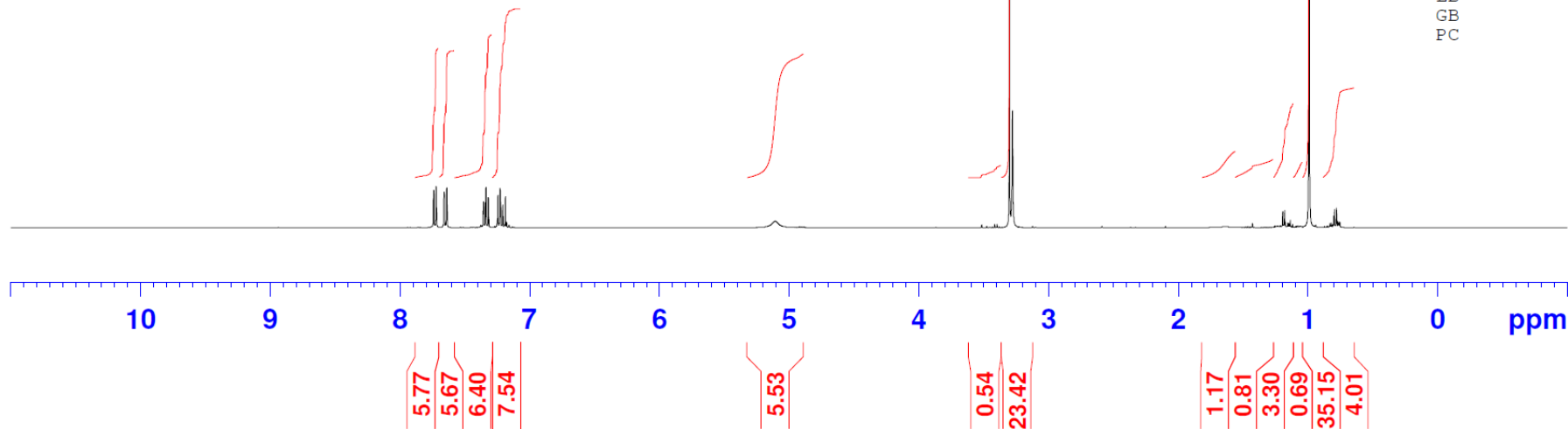
Copies of all the  $^1\text{H}$ ,  $^{13}\text{C}$  and  $^{19}\text{F}$  NMR spectra reported in this paper with expansions for some of the  $^{13}\text{C}$  spectra to show carbon-fluorine couplings

ejt cry alcohol  
mPROTON CDCl<sub>3</sub> {e:\bruk400data\2012\Mar} ejt 38

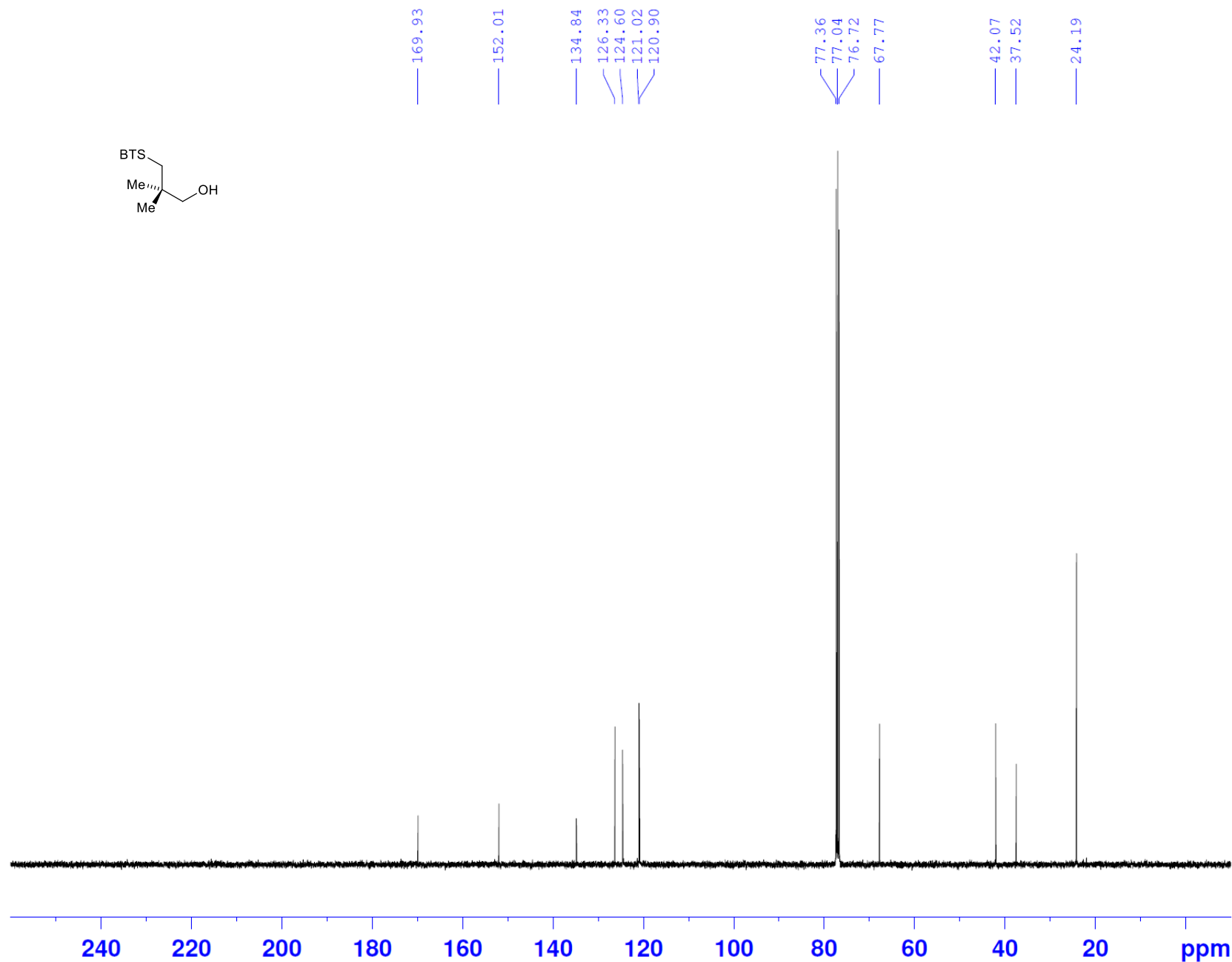
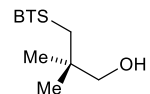


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Date\_ 20120308  
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TD 65536  
SOLVENT CDCl<sub>3</sub>  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 203  
DW 60.500 usec  
DE 9.40 usec  
TE 294.3 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300379 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



ejt cry alcohol  
mCARBONnight CDCl<sub>3</sub> {e:\bruk400data\2012\Mar} ejt 12

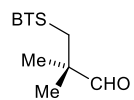


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PROCNO 1  
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Time 20.20  
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PROBHD 5 mm PABBO BB-  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl<sub>3</sub>  
NS 1024  
DS 2  
SWH 30241.936 Hz  
FIDRES 0.461455 Hz  
AQ 1.0835786 sec  
RG 512  
DW 16.533 usec  
DE 7.83 usec  
TE 295.5 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 13C  
P1 8.00 usec  
PL1 0.00 dB  
PL1W 34.91522217 W  
SFO1 100.6241042 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 90.00 usec  
PL2 -3.60 dB  
PL12 15.31 dB  
PL13 18.00 dB  
PL2W 17.83863831 W  
PL12W 0.22927761 W  
PL13W 0.12341322 W  
SFO2 400.1316005 MHz  
SI 32768  
SF 100.6127690 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

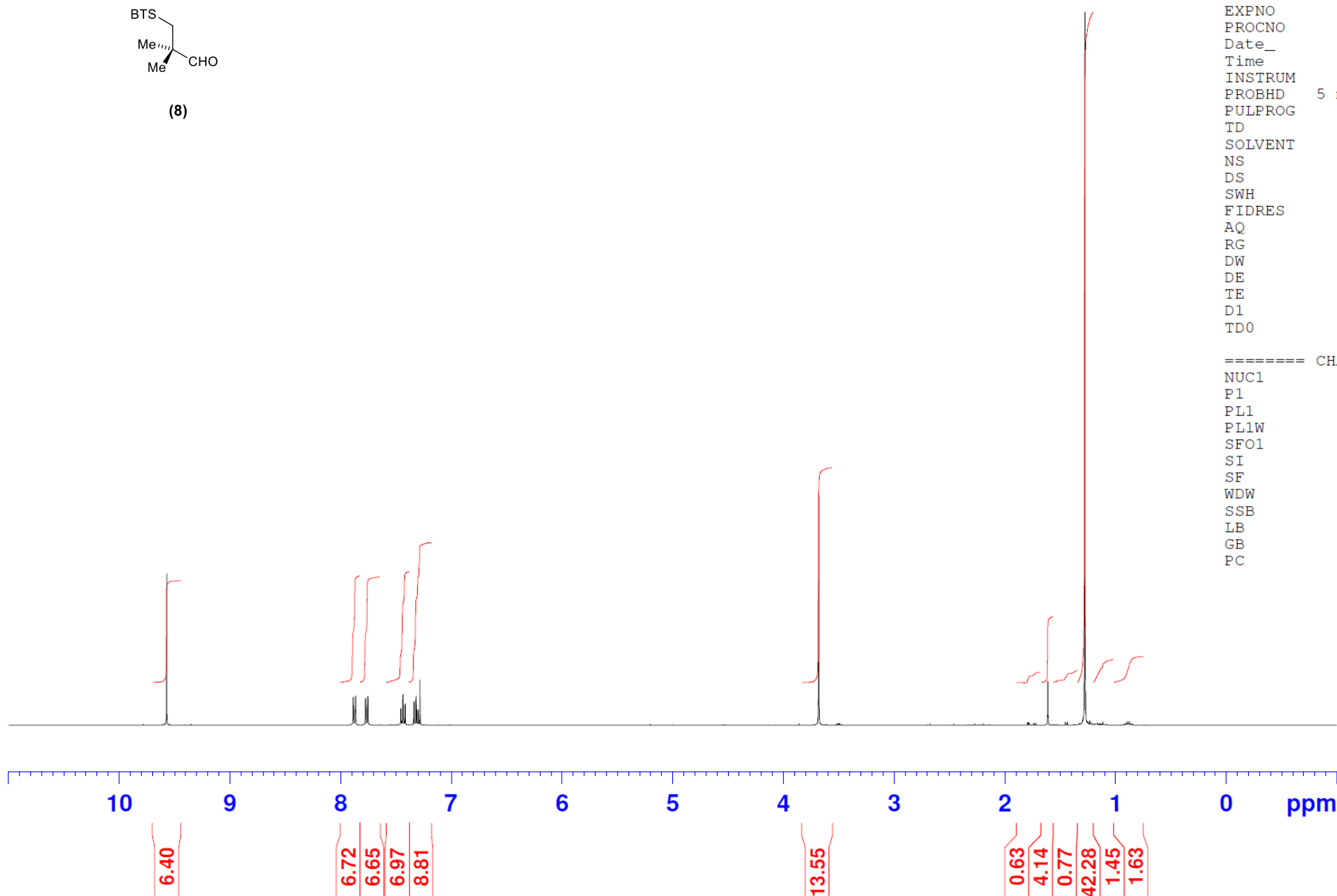
ejt cry swern  
mPROTON CDCl3 {e:\bruk400data\2012\May} ejt 17



(8)

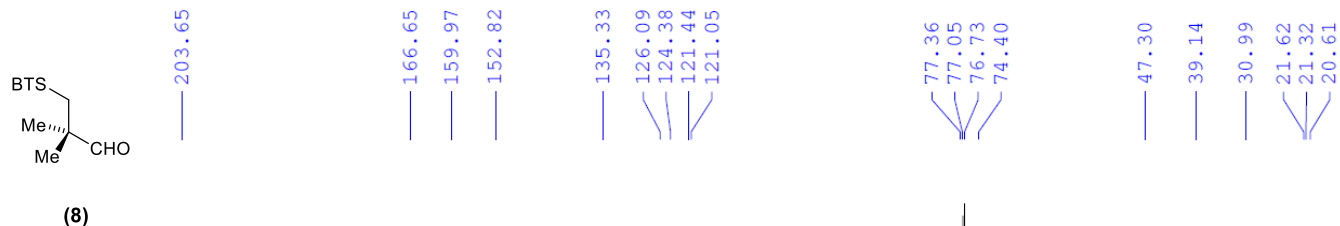
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PROCNO 1  
Date\_ 20120511  
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PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 287  
DW 60.500 usec  
DE 9.40 usec  
TE 293.3 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
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PC 1.00





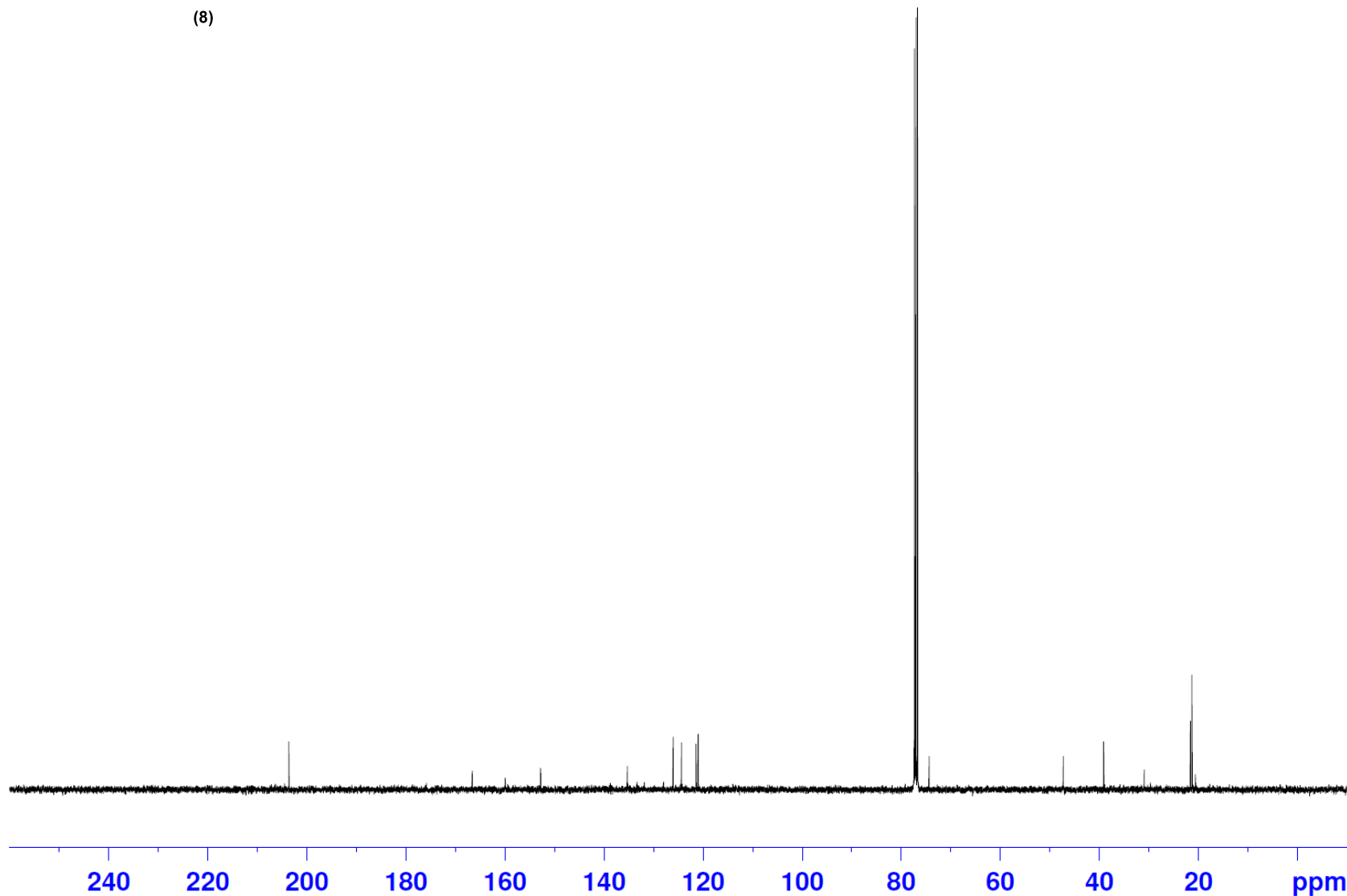
ejt cry ald  
mCARBONnight CDCl<sub>3</sub> {e:\bruk400data\2012\Feb} ejt 38



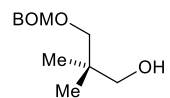
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PULPROG zgpg30  
TD 65536  
SOLVENT CDCl<sub>3</sub>  
NS 1000  
DS 2  
SWH 30241.936 Hz  
FIDRES 0.461455 Hz  
AQ 1.0835786 sec  
RG 512  
DW 16.533 usec  
DE 7.83 usec  
TE 292.4 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 13C  
P1 8.00 usec  
PL1 0.00 dB  
PL1W 34.9152217 W  
SFO1 100.6241042 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 90.00 usec  
PL2 -3.60 dB  
PL12 15.31 dB  
PL13 18.00 dB  
PL2W 17.83863831 W  
PL12W 0.22927761 W  
PL13W 0.12341322 W  
SFO2 400.1316005 MHz  
SI 32768  
SF 100.6127690 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

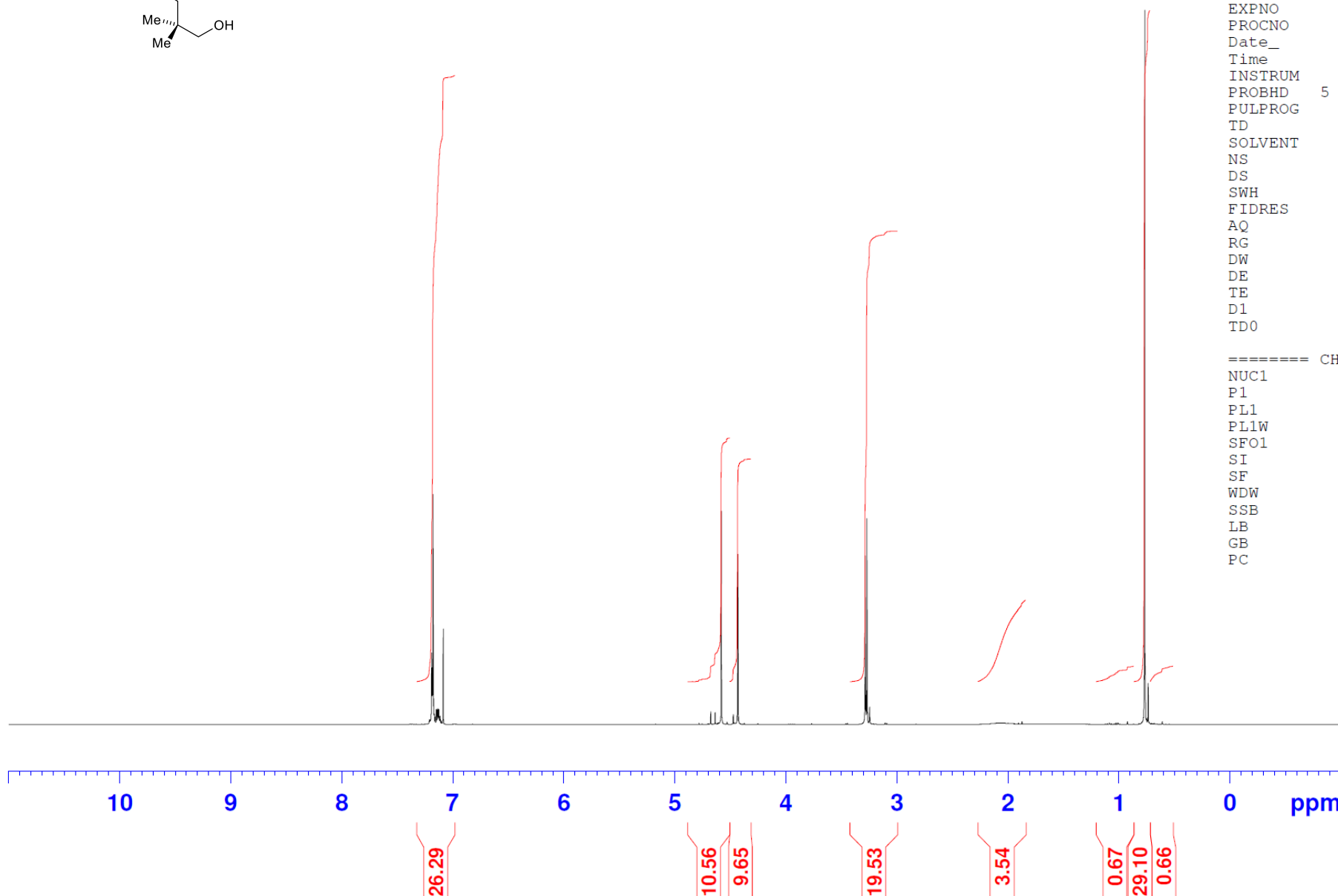


ejt cry bom oh  
mPROTON CDCl3 {e:\bruk400data\2012\Aug} ejt 16

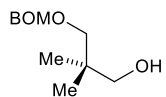


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PROCNO 1  
Date\_ 20120807  
Time 16.08  
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PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 287  
DW 60.500 usec  
DE 9.40 usec  
TE 295.2 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300790 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



ejt cry bom prot  
mCARBONnight CDC13 /opt/bruk500data/2012/May ejt 2



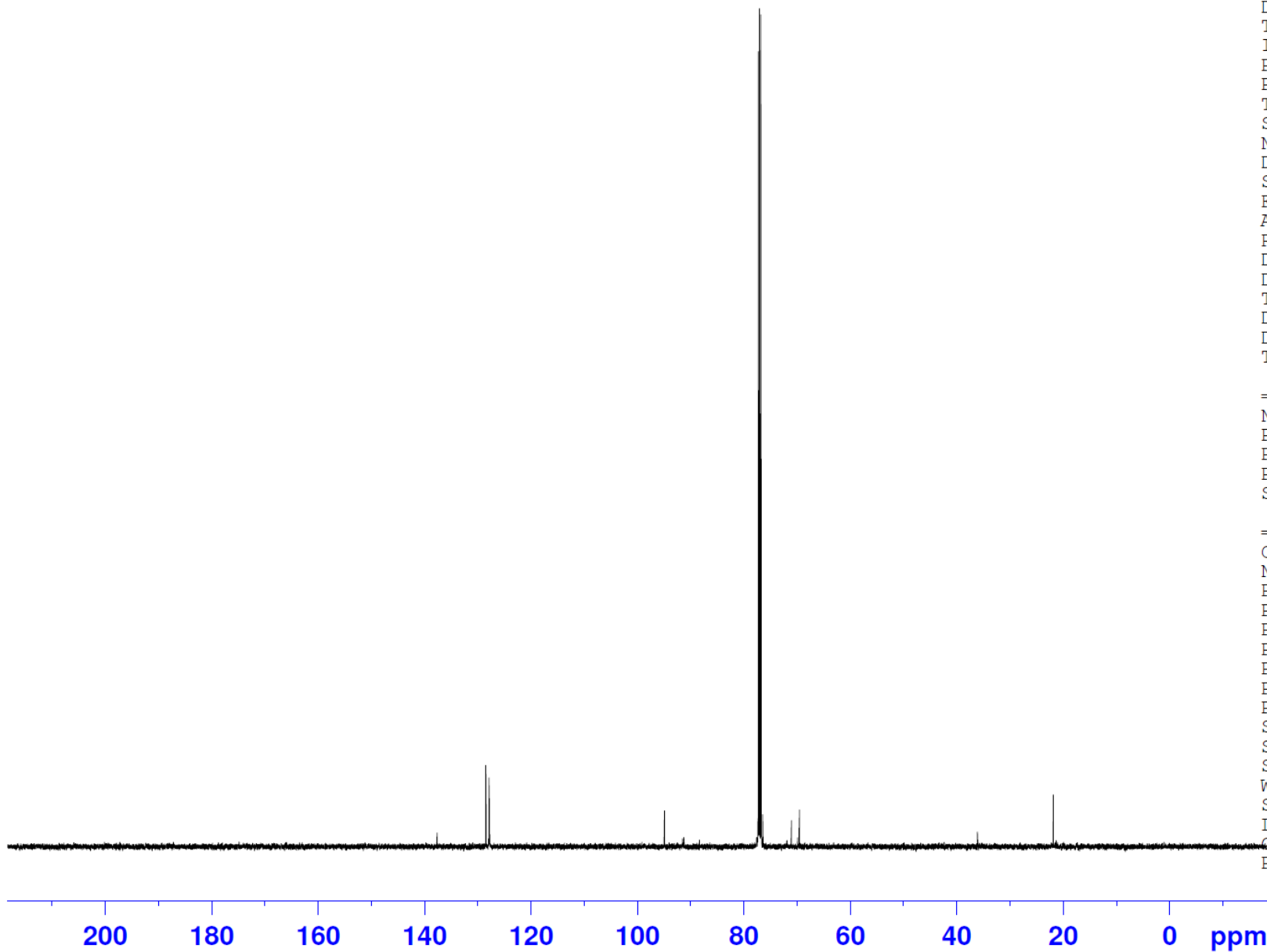
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128.48  
127.92  
127.88  
127.84  
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91.55  
91.28  
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77.29  
77.04  
76.79  
76.48  
71.09  
69.90  
69.57  
36.09  
21.82



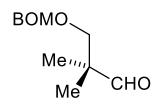
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EXPNO 20  
PROCNO 1  
Date\_ 20120530  
Time 18.48  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zgpg30  
TD 65536  
SOLVENT CDC13  
NS 800  
DS 2  
SWH 29761.904 Hz  
FIDRES 0.454131 Hz  
AQ 1.1010548 sec  
RG 512  
DW 16.800 usec  
DE 32.78 usec  
TE 293.0 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 13C  
P1 8.80 usec  
PL1 -1.00 dB  
PL1W 104.35516357 W  
SFO1 125.7703643 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 80.00 usec  
PL2 0.00 dB  
PL12 17.23 dB  
PL13 120.00 dB  
PL2W 25.62124252 W  
PL12W 0.48484197 W  
PL13W 0.00000000 W  
SFO2 500.1320005 MHz  
SI 32768  
SF 125.7577890 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



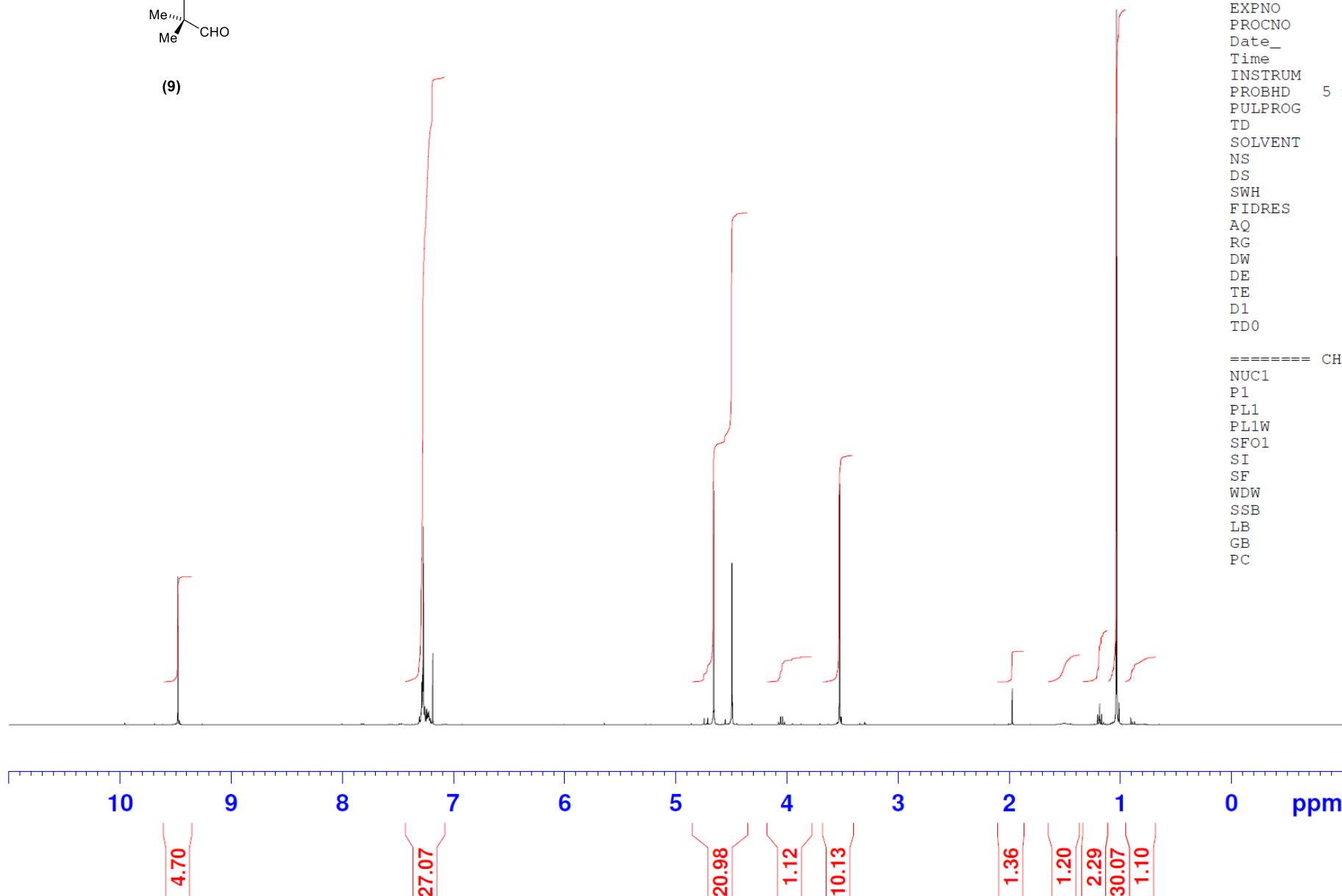
ejt cry bom ald  
mPROTON CDCl3 {e:\bruk400data\2012\Aug} ejt 15



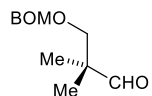
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NAME 2012-08-08-ejt-15  
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PROCNO 1  
Date\_ 20120808  
Time 15.31  
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PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 256  
DW 60.500 usec  
DE 9.40 usec  
TE 295.5 K  
D1 1.00000000 sec  
TD0 1

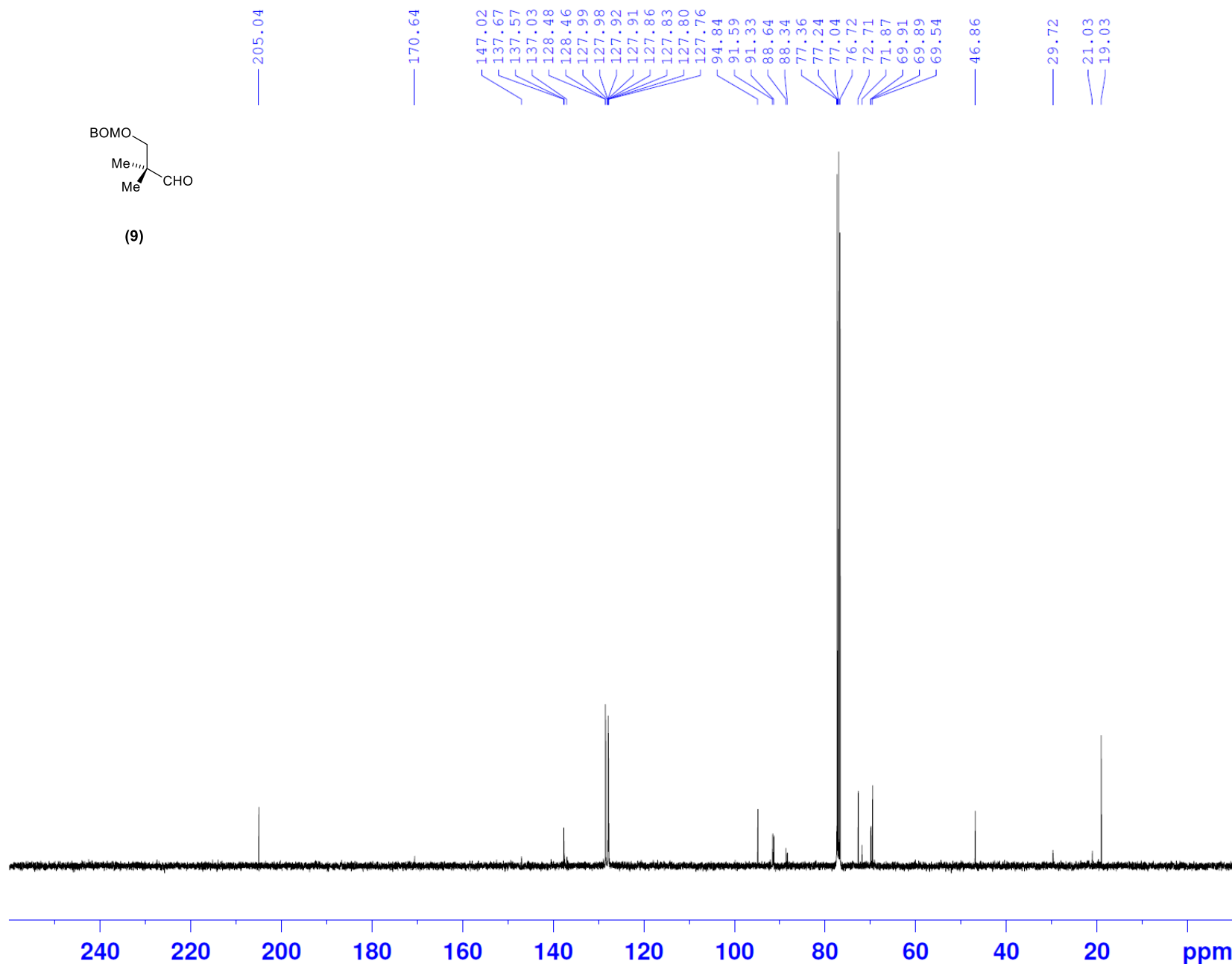
===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300387 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



ejt cry swern  
mCARBONnight CDCl<sub>3</sub> {e:\bruk400data\2012\May} ejt 31



(9)

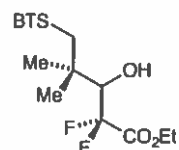


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PROCNO 1  
Date\_ 20120601  
Time 1.04  
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PROBHD 5 mm PABBO BB-  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl<sub>3</sub>  
NS 800  
DS 2  
SWH 30241.936 Hz  
FIDRES 0.461455 Hz  
AQ 1.0835786 sec  
RG 512  
DW 16.533 usec  
DE 7.83 usec  
TE 296.2 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 13C  
P1 8.00 usec  
PL1 0.00 dB  
PL1W 34.91522217 W  
SFO1 100.6241042 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 90.00 usec  
PL2 -3.60 dB  
PL12 15.31 dB  
PL13 18.00 dB  
PL2W 17.83863831 W  
PL12W 0.22927761 W  
PL13W 0.12341322 W  
SFO2 400.1316005 MHz  
SI 32768  
SF 100.6127690 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

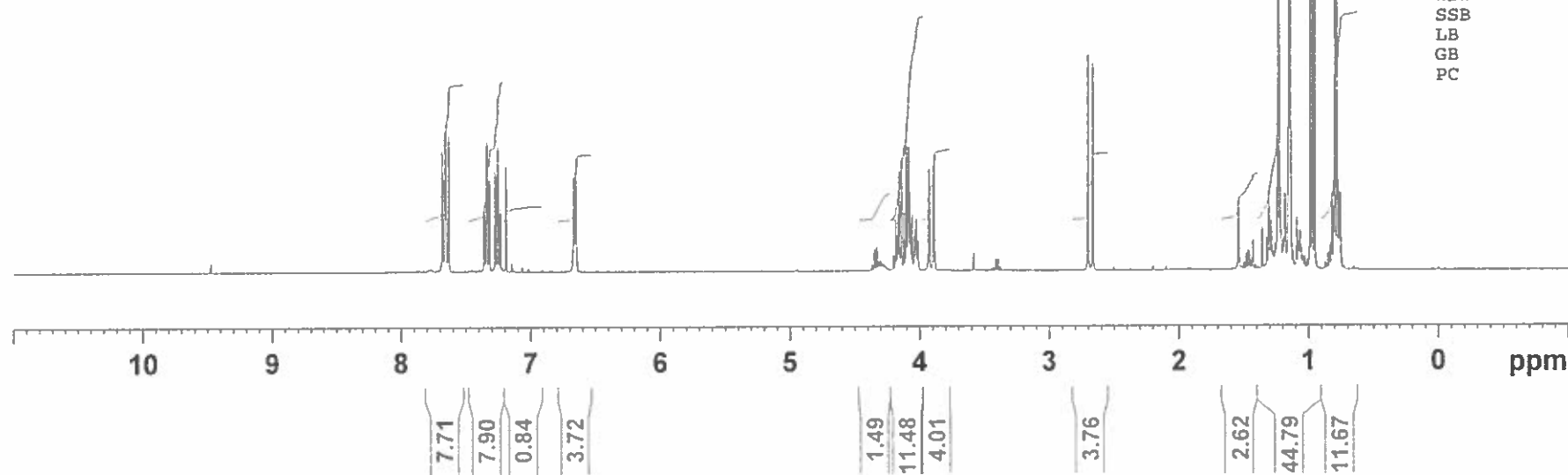
ejt cry 7-9  
mPROTON CDCl3 {e:\bruk400data\2012\Feb} ejt 16



12

NAME 2012-02-06-ejt-16  
EXPNO 10  
PROCNO 1  
Date\_ 20120206  
Time\_ 14.23  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 161  
DW 60.500 usec  
DE 9.40 usec  
TE 293.7 K  
D1 1.00000000 sec  
TD0 1

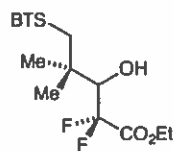
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NUC1 1H  
P1 10.00 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300376 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



ejt cry 7-9  
mCARBONnight CDCl3 {e:\bruk400data\2012\Feb} ejt 16



170.38  
164.39  
164.10  
164.05  
163.75  
151.57  
134.71  
126.49  
124.92  
121.21  
120.50  
117.60  
117.49  
114.98  
77.36  
77.05  
76.73  
71.64  
71.42  
71.36  
71.14  
62.52  
46.43  
41.35  
39.65  
36.07  
29.07  
27.68  
22.78  
22.71  
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21.92  
20.46  
19.46  
18.78  
14.35  
13.78  
13.67  
11.46

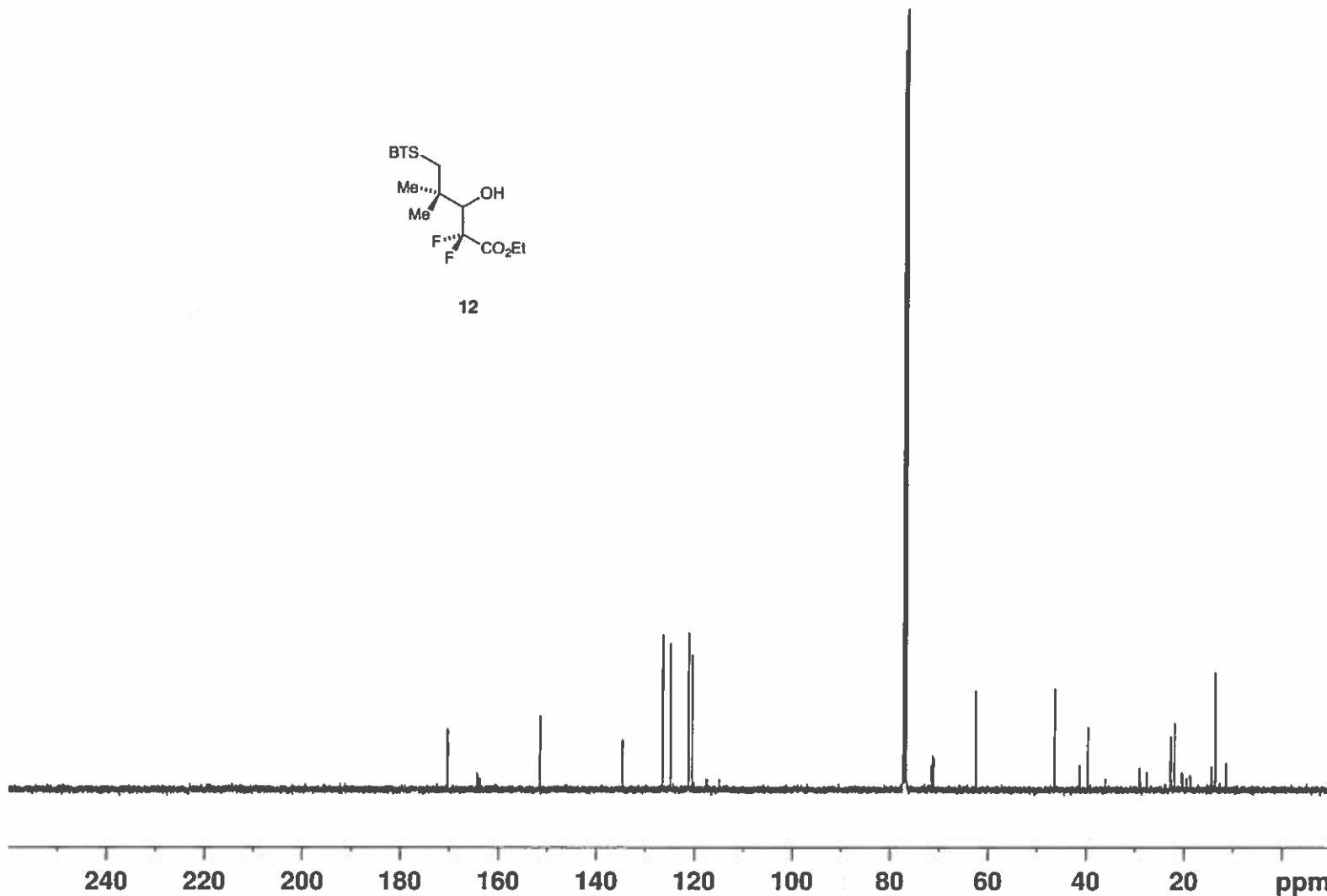


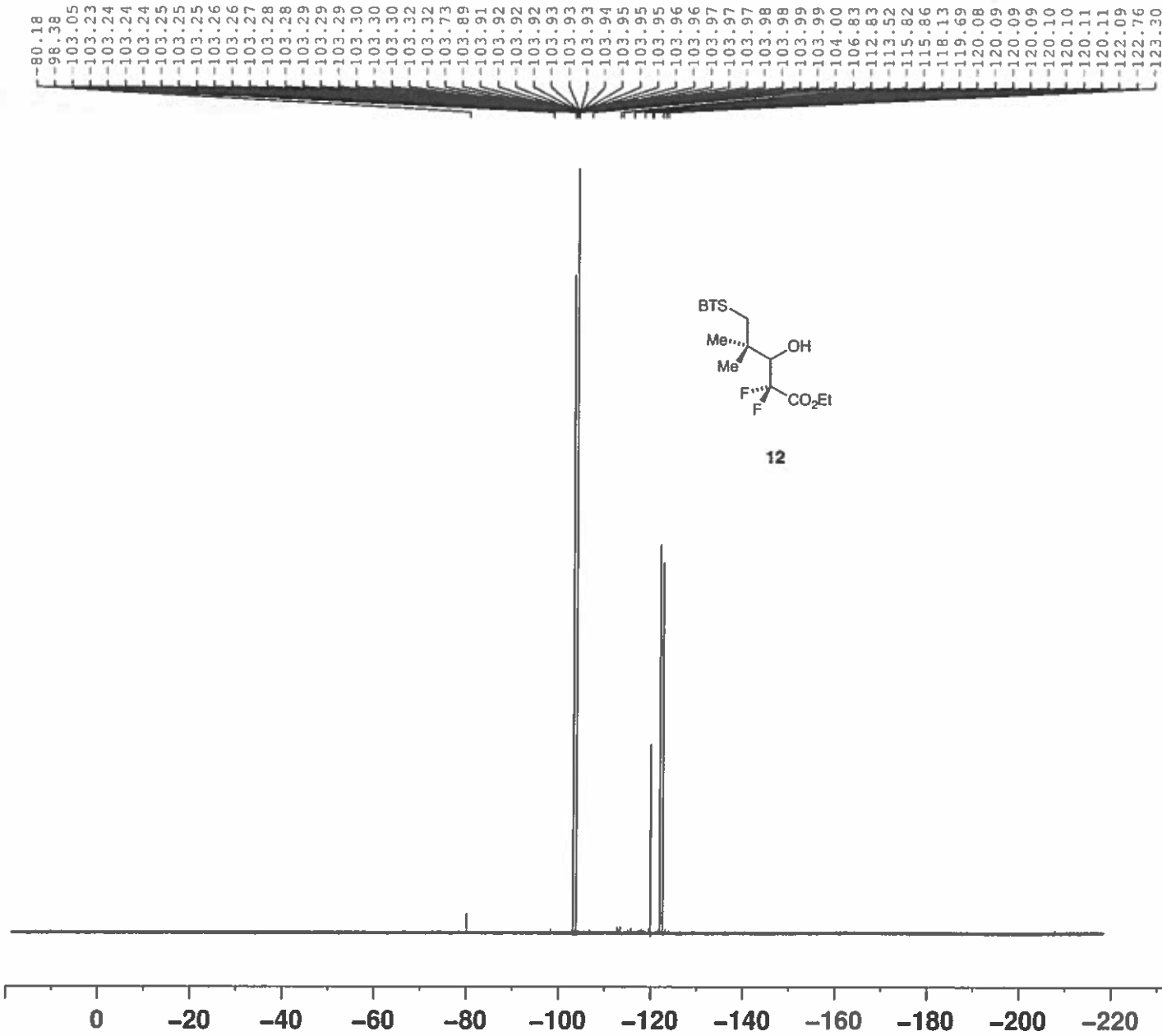
12

NAME 2012-02-06-ejt-16  
EXPNO 12  
PROCNO 1  
Date\_ 20120207  
Time 3.56  
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PROBHD 5 mm PABBO B9-  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 1000  
DS 2  
SWH 30241.936 Hz  
FIDRES 0.461455 Hz  
AQ 1.0835786 sec  
RG 512  
DW 16.533 usec  
DE 7.83 usec  
TE 293.2 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 13C  
P1 8.00 usec  
PL1 0.00 dB  
PL1W 34.91522217 W  
SFO1 100.6241042 MHz

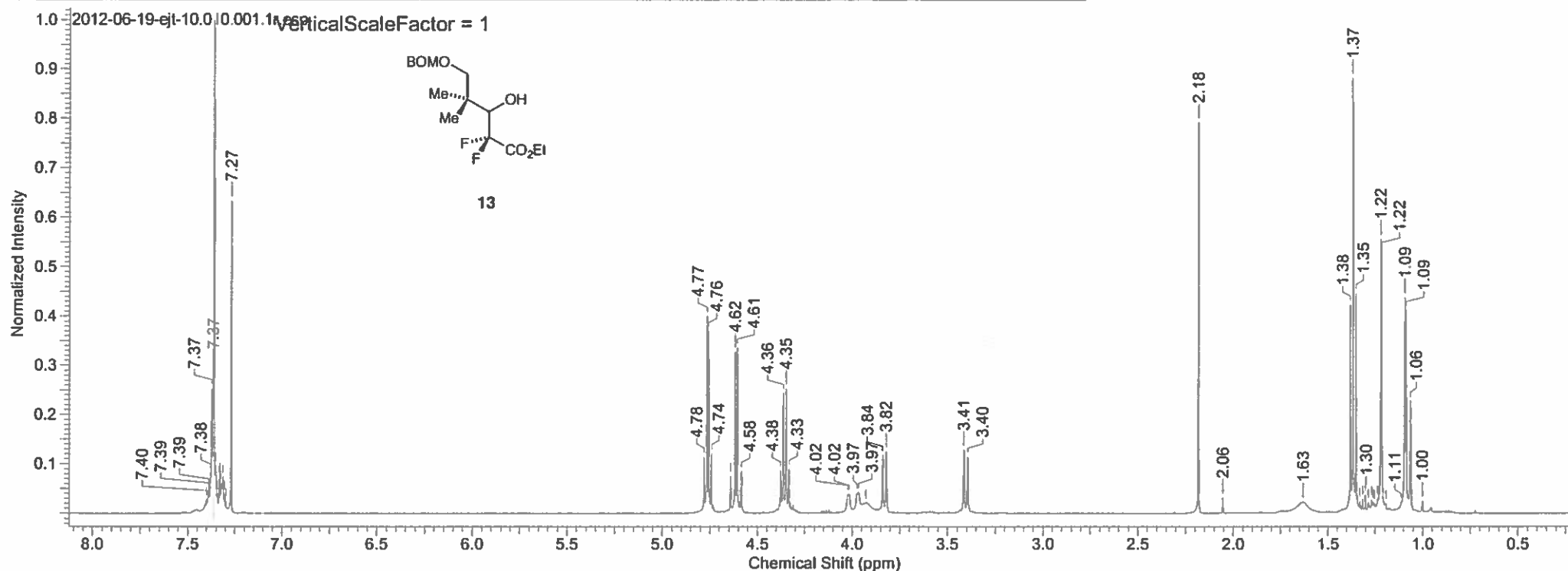
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CPDPRG2 waltz16  
NUC2 1H  
PCPD2 90.00 usec  
PL2 -3.60 dB  
PL12 15.31 dB  
PL13 18.00 dB  
PL2W 17.83863831 W  
PL12W 0.22927761 W  
PL13W 0.12341322 W  
SFO2 400.1316005 MHz  
SI 32768  
SF 100.6127690 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40







Acquisition Time (sec)	3.1719	Comment	ejt cry tips mPROTONnight CDCl3 /op/bbruk500data/2012/Jun ejt 10		Date	20 Jun 2012 03:46:24	
Date Stamp	20 Jun 2012 03:46:24						
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500data\bruk500data\2012\Jun\data\ejt\nmr\2012-06-19-ejt-10\10\data\1\1r						
Frequency (MHz)	500.13	Nucleus	1H	Number of Transients	16	Origin	spect
Original Points Count	32768	Owner	vnmr1	Points Count	32768	Pulse Sequence	zg30b
Receiver Gain	203.00	SW(cyclical) (Hz)	10330.58	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	3079.9768
Spectrum Type	STANDARD	Sweep Width (Hz)	10330.26	Temperature (degree C)	20.001		



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	1.00	501.0	0.0255	12	1.26	630.2	0.0225	23	1.37	686.0	0.0604	34	3.97	1987.4	0.0410
2	1.06	531.9	0.2281	13	1.27	634.0	0.0282	24	1.38	690.1	0.4235	35	4.02	2008.6	0.0394
3	1.07	533.7	0.0986	14	1.29	644.1	0.0230	25	1.63	815.6	0.0229	36	4.02	2012.3	0.0387
4	1.09	544.5	0.4125	15	1.30	651.0	0.0371	26	2.06	1028.1	0.0322	37	4.33	2163.7	0.0224
5	1.09	546.7	0.4379	16	1.32	658.3	0.0293	27	2.18	1091.4	0.7925	38	4.33	2167.8	0.0898
6	1.11	557.4	0.0224	17	1.33	665.2	0.0251	28	3.40	1698.0	0.1140	39	4.34	2170.6	0.0238
7	1.20	597.7	0.0200	18	1.34	672.5	0.0356	29	3.41	1707.8	0.1283	40	4.35	2175.0	0.2529
8	1.22	608.5	0.5317	19	1.35	673.4	0.0364	30	3.82	1910.8	0.1254	41	4.36	2182.3	0.2438
9	1.22	609.7	0.5571	20	1.35	675.9	0.4465	31	3.84	1920.3	0.1186	42	4.37	2186.0	0.0262
10	1.24	618.6	0.0300	21	1.36	679.4	0.0452	32	3.93	1964.7	0.0215	43	4.38	2189.2	0.0866
11	1.25	627.1	0.0214	22	1.37	683.2	0.8827	33	3.97	1983.6	0.0433	44	4.58	2292.3	0.0859
												45	4.59	2297.3	0.0249
												46	4.61	2304.0	0.3359
												47	4.62	2309.9	0.3286
												48	4.64	2321.6	0.0757
												49	4.74	2372.4	0.1213
												50	4.75	2376.1	0.0240
												51	4.76	2379.3	0.3702
												52	4.77	2384.0	0.4005
												53	4.78	2391.0	0.1141
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ejt cry tips

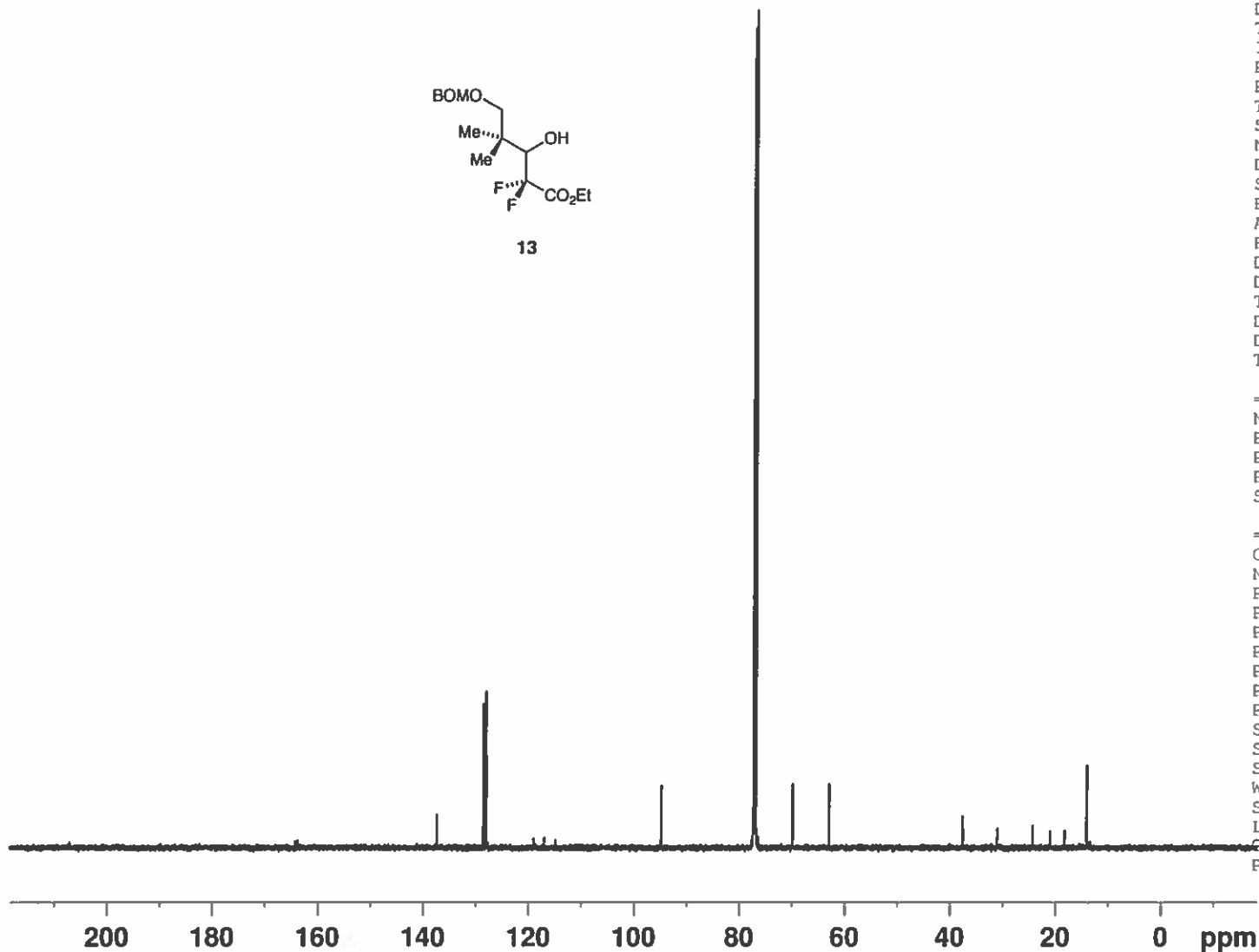
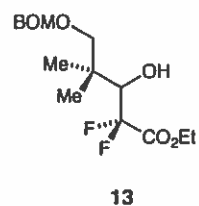
mCARBONnight CDC13 /opt/bruk500data/2012/Jun ejt 10



NAME 2012-06-19-ejt-10  
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PROCNO 1  
Date\_ 20120620  
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INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zgpg30  
TD 65536  
SOLVENT CDC13  
NS 1000  
DS 2  
SWH 29761.904 Hz  
FIDRES 0.454131 Hz  
AQ 1.1010548 sec  
RG 512  
DW 16.800 usec  
DE 32.78 usec  
TE 293.0 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 13C  
P1 8.80 usec  
PL1 -1.00 dB  
PL1W 104.35516357 W  
SFO1 125.7703643 MHz

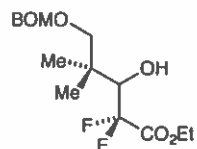
===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 80.00 usec  
PL2 0.00 dB  
PL12 17.23 dB  
PL13 120.00 dB  
PL2W 25.62124252 W  
PL12W 0.48484197 W  
PL13W 0.00000000 W  
SFO2 500.1320005 MHz  
SI 32768  
SF 125.7577890 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



ejt cry zinc 2-6  
mF19CPD CDCl3 {e:\bruk400data\2012\Jun} ejt 39



-100.91  
-101.70  
-105.59  
-106.27  
-111.79  
-112.58  
-114.25  
-120.07  
-120.09  
-120.10  
-120.10  
-120.11  
-120.11  
-120.12  
-120.12  
-120.12  
-120.13  
-120.13  
-120.13  
-120.14  
-120.14  
-120.14  
-120.15  
-120.15  
-120.16  
-120.16  
-120.16  
-120.17  
-124.23  
-124.91  
-126.46  
-126.60



13

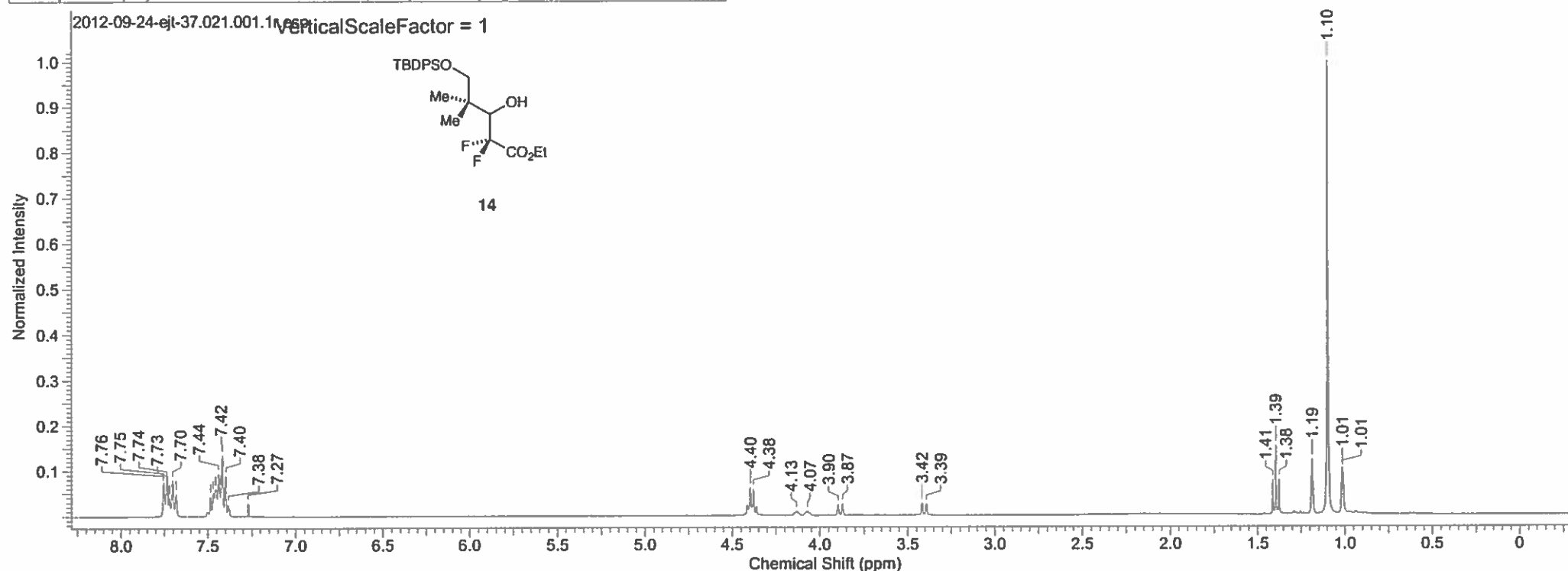
NAME 2012-06-11-ejt-39  
EXPNO 11  
PROCNO 1  
Date 20120611  
Time 12.34  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zgig  
TD 131072  
SOLVENT CDCl3  
NS 16  
DS 4  
SWH 89285.711 Hz  
FIDRES 0.681196 Hz  
AQ 0.7340532 sec  
RG 4100  
DW 5.600 usec  
DE 7.51 usec  
TE 293.7 K  
D1 1.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 19F  
P1 10.70 usec  
PL1 -5.00 dB  
PL1W 27.00716019 W  
SFO1 376.4607164 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 90.00 usec  
PL2 -3.60 dB  
PL12 15.31 dB  
PL2W 17.83863831 W  
PL12W 0.22927761 W  
SFO2 400.1316005 MHz  
SI 262144  
SF 376.4983660 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 2.00

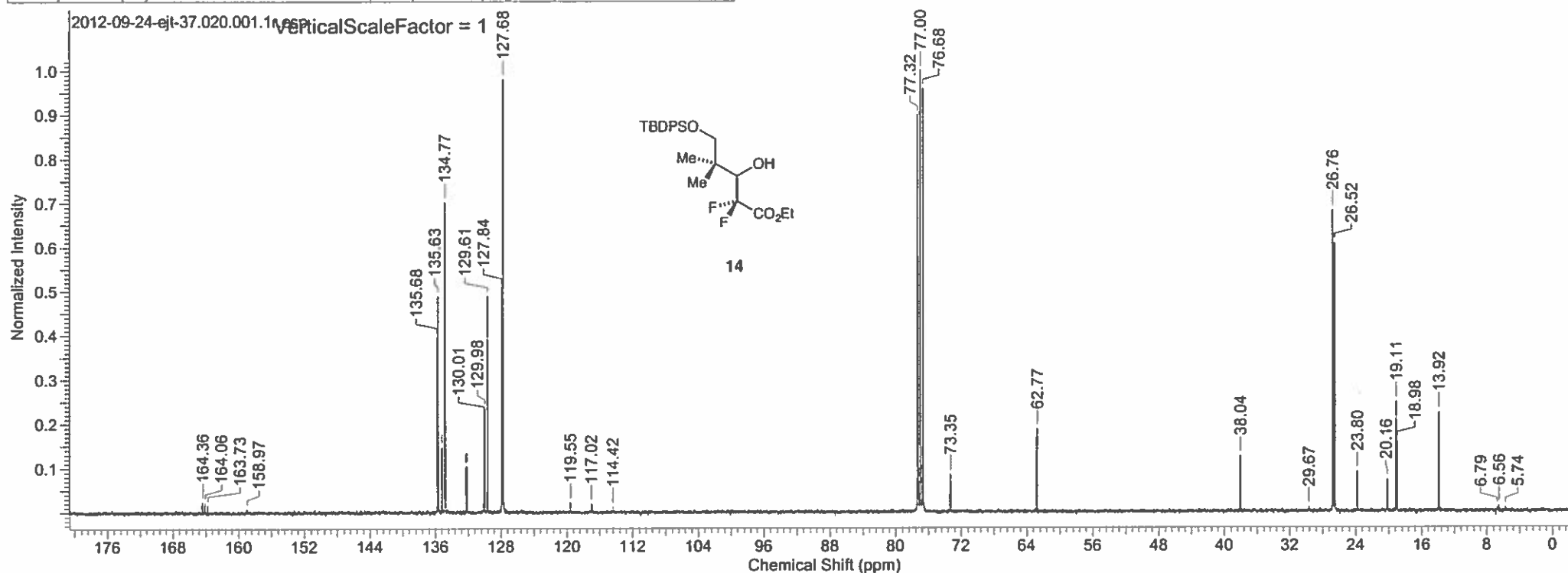
0 -20 -40 -60 -80 -100 -120 -140 -160 -180 -200 -220 ppm

Acquisition Time (sec)	3.9649	Comment ejt cry zinc product mPROTONnight CDCl3 (e:\bruk400data\2012\Sep)\ejt 37			
Date	25 Sep 2012 08:06:40	Date Stamp		25 Sep 2012 08:06:40	
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400data\2012\Sep\data\ejt\nmr\2012-09-24-ejt-37\21\data\11\1r			Frequency (MHz)	400.13
Nucleus	1H	Number of Transients	16	Origin	AV400
Owner	Administrator	Points Count	32768	Pulse Sequence	zg30b
SW(cyclical) (Hz)	8264.46	Solvent	CHLOROFORM-d	Receiver Gain	90.50
Sweep Width (Hz)	8264.21	Temperature (degree C)	21.100	Spectrum Offset (Hz)	2464.9272
				Spectrum Type	STANDARD



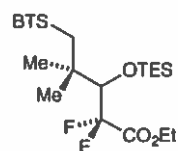
No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	1.01	404.7	0.0991	9	3.42	1367.4	0.0266	17	7.38	2954.1	0.0268	25	7.46	2984.4	0.0597
2	1.01	406.0	0.1034	10	3.87	1549.3	0.0257	18	7.40	2960.4	0.0893	26	7.47	2988.6	0.0512
3	1.10	439.0	1.0000	11	3.90	1559.4	0.0233	19	7.42	2967.7	0.1354	27	7.49	2995.2	0.0433
4	1.19	474.9	0.1219	12	4.07	1629.2	0.0093	20	7.42	2969.2	0.1038	28	7.68	3074.4	0.0505
5	1.38	550.3	0.0775	13	4.13	1653.7	0.0094	21	7.43	2971.0	0.0623	29	7.70	3081.2	0.0732
6	1.39	557.3	0.1528	14	4.38	1752.6	0.0584	22	7.44	2976.3	0.0944	30	7.70	3082.5	0.0804
7	1.41	564.6	0.0761	15	4.40	1759.6	0.0613	23	7.45	2982.3	0.0596	31	7.72	3089.0	0.0416
8	3.39	1357.3	0.0242	16	7.27	2908.9	0.0286	24	7.46	2983.3	0.0587	32	7.72	3090.5	0.0400
												33	7.73	3092.1	0.0258
												34	7.73	3094.3	0.0699
												35	7.74	3095.6	0.0802
												36	7.75	3101.9	0.0759
												37	7.76	3103.1	0.0708

Acquisition Time (sec)	1.0835	Comment	ejt cry zinc product mCARBONnight CDCl3 (e:\bruk400data\2012\Sep) ejt 37				
Date	25 Sep 2012 08:04:32	Date Stamp	25 Sep 2012 08:04:32				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400data\2012\Sep\data\ejt\Nmr\2012-09-24-ejt-37\20\data\1\1r				Frequency (MHz)	100.61	
Nucleus	13C	Number of Transients	1000	Origin	AV400	Original Points Count	32768
Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	512.00
SW(cyclical) (Hz)	30241.94	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	11328.5381	Spectrum Type	STANDARD
Sweep Width (Hz)	30241.01	Temperature (degree C)	21.600				



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	5.74	577.1	0.0093	10	26.52	2668.4	0.6070	19	77.00	7747.2	1.0000	28	127.84	12862.0	0.5090
2	6.56	660.2	0.0119	11	26.76	2692.4	0.6829	20	77.20	7767.5	0.0691	29	129.61	13040.1	0.4893
3	6.79	683.2	0.0090	12	29.67	2985.0	0.0095	21	77.32	7779.5	0.8987	30	129.98	13077.9	0.2343
4	13.92	1400.3	0.2237	13	38.04	3827.6	0.1250	22	114.42	11511.7	0.0121	31	130.01	13080.7	0.2185
5	18.98	1909.8	0.1580	14	62.77	6315.7	0.1868	23	116.95	11766.5	0.0172	32	132.09	13290.2	0.1047
6	19.11	1922.7	0.2472	15	73.31	7376.2	0.0789	24	117.02	11773.8	0.0187	33	132.23	13304.0	0.1029
7	20.16	2027.9	0.0721	16	73.35	7379.9	0.0836	25	119.55	12028.6	0.0216	34	134.77	13559.7	0.7025
8	23.77	2391.5	0.0884	17	76.68	7714.9	0.9580	26	127.68	12846.3	0.9803	35	135.16	13598.4	0.1467
9	23.80	2394.3	0.0903	18	76.93	7739.8	0.0754	27	127.82	12860.1	0.4990	36	135.63	13646.4	0.4880

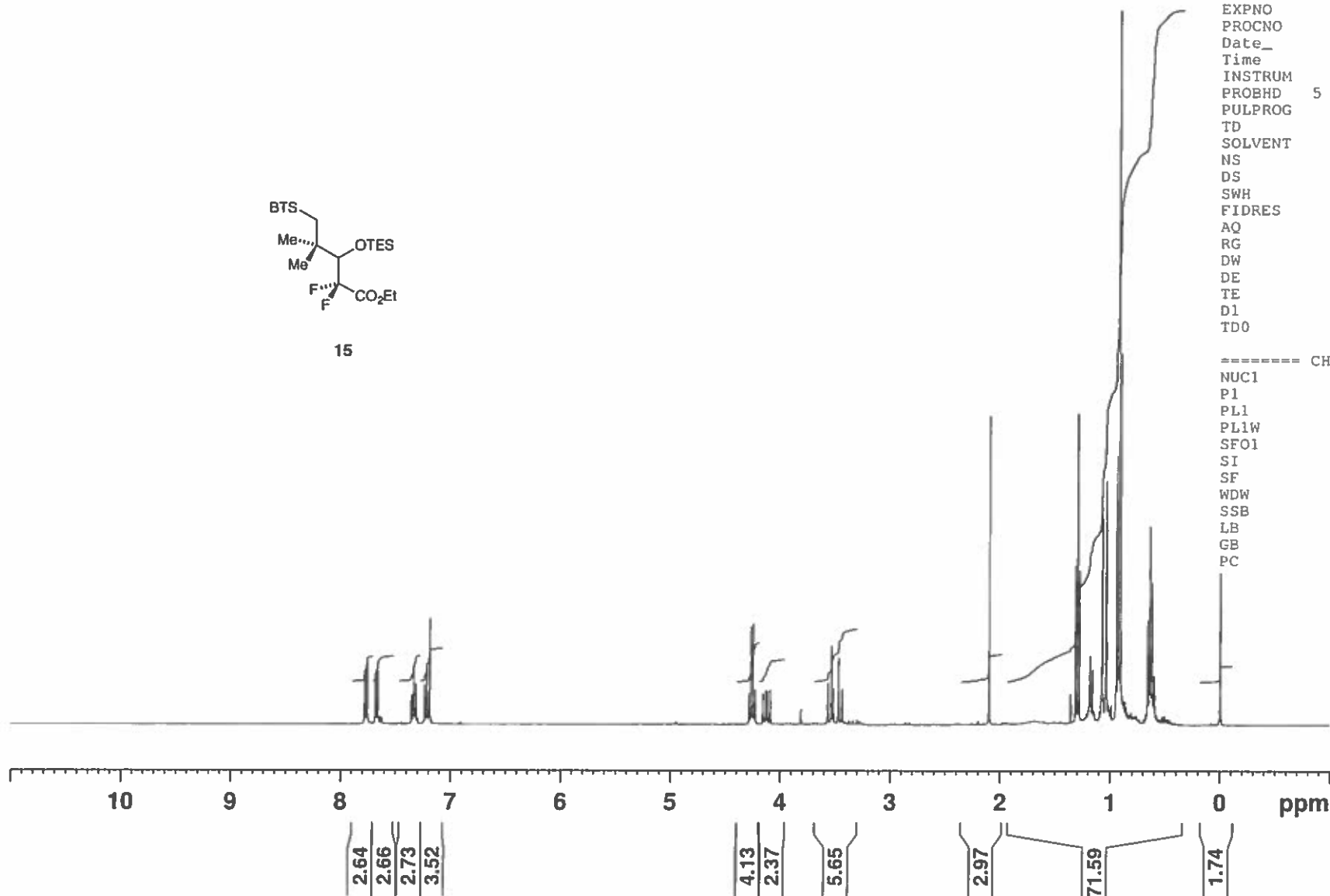
ejty cry meli  
mPROTON CDCl3 {e:\bruk400data\2012\Feb} ejt 41



15

NAME 2012-02-24-ejt-41  
EXPNO 10  
PROCNO 1  
Date\_ 20120224  
Time 13.38  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 181  
DW 60.500 usec  
DE 9.40 usec  
TE 294.8 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300381 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



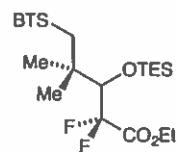
ejt cry tes 3-5  
mCARBONnight CDC13 /opt/bruk500data/2012/Feb ejt 28



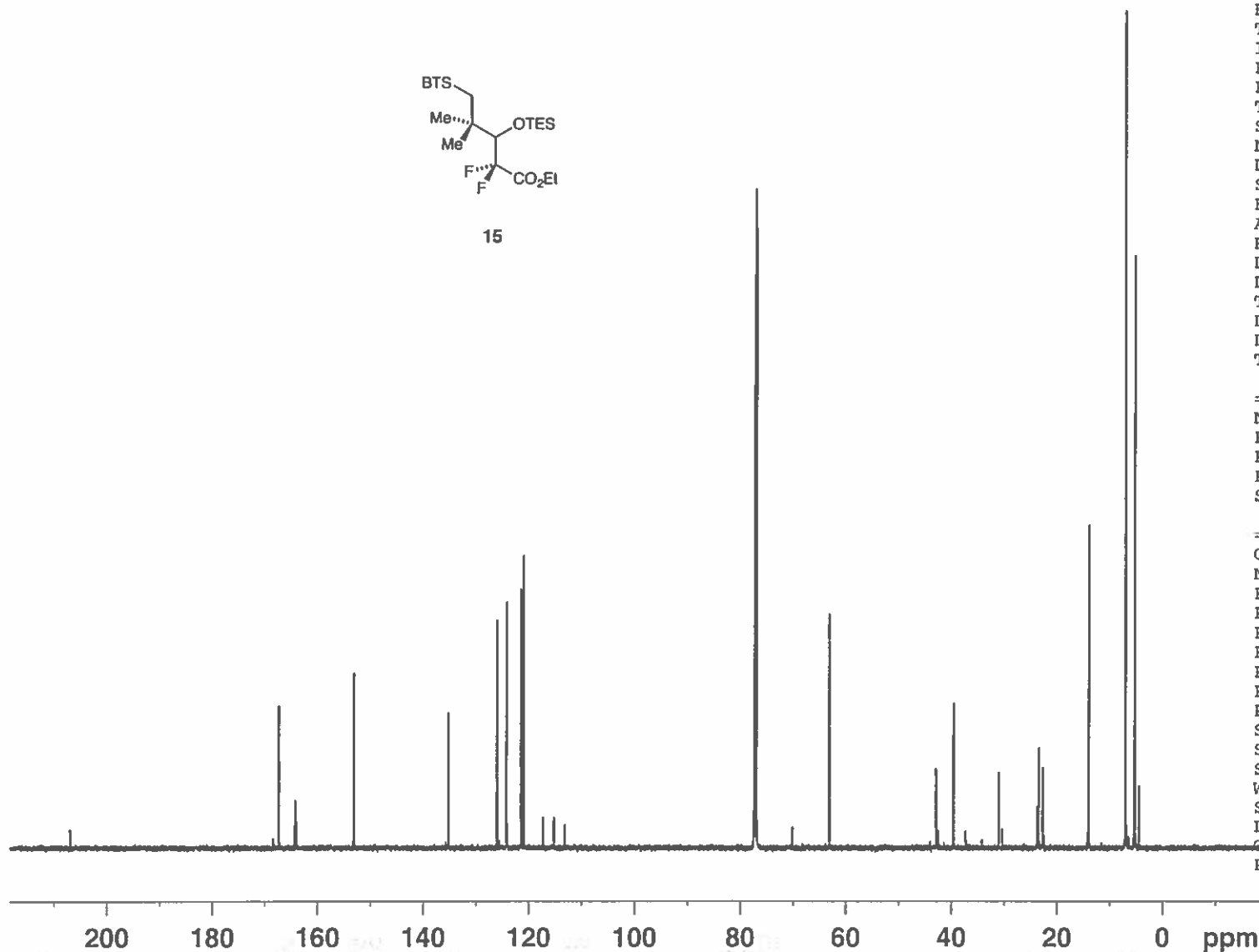
NAME 2012-02-13-ejt-28  
EXPNO 12  
PROCNO 1  
Date\_ 20120214  
Time 0.08  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zgpg30  
TD 65536  
SOLVENT CDC13  
NS 500  
DS 2  
SWH 29761.904 Hz  
FIDRES 0.454131 Hz  
AQ 1.1010548 sec  
RG 512  
DW 16.800 usec  
DE 32.78 usec  
TE 300.0 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 13C  
P1 8.80 usec  
PL1 -1.00 dB  
PL1W 104.35516357 W  
SFO1 125.7703643 MHz

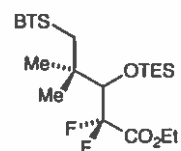
===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 80.00 usec  
PL2 0.00 dB  
PL12 17.23 dB  
PL13 120.00 dB  
PL2W 25.62124252 W  
PL12W 0.48484197 W  
PL13W 0.00000000 W  
SFO2 500.1320005 MHz  
SI 32768  
SF 125.7577890 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



15

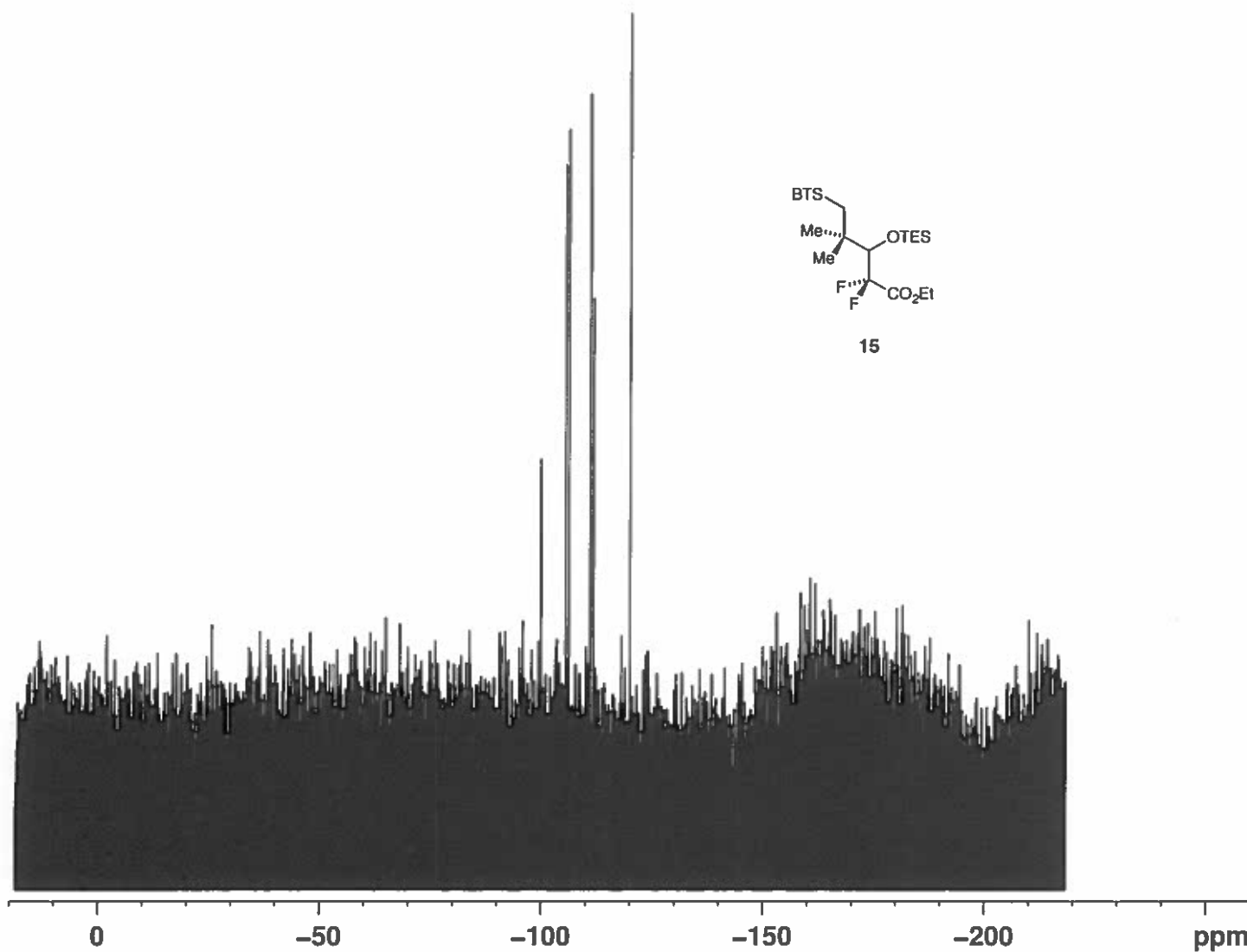


ejt cry tes  
mF19 CDC13 {e:\bruk400data\2012\Mar} ejt 58



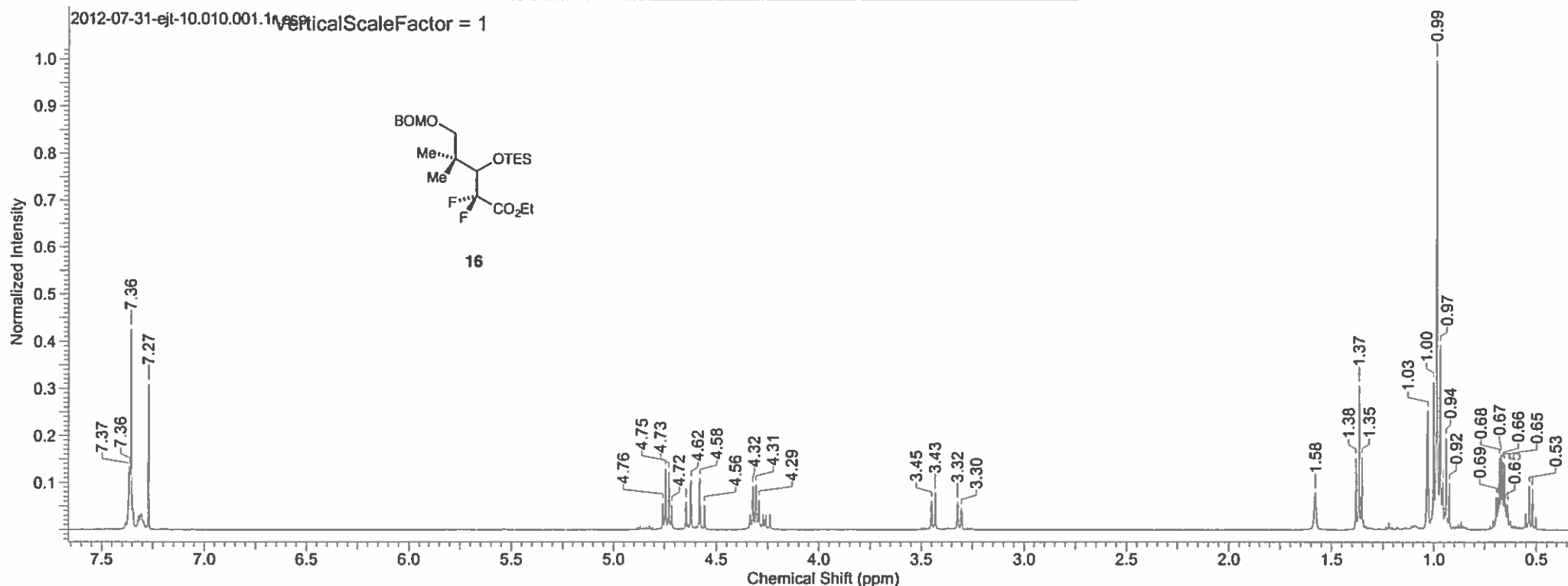
NAME 2012-03-21-ejt-58  
EXPNO 10  
PROCNO 1  
Date\_ 20120321  
Time 15.43  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg  
TD 131072  
SOLVENT CDC13  
NS 16  
DS 4  
SWH 89285.711 Hz  
FIDRES 0.681196 Hz  
AQ 0.7340532 sec  
RG 4100  
DW 5.600 usec  
DE 11.01 usec  
TE 295.1 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 19F  
P1 10.70 usec  
PL1 -5.00 dB  
PL1W 27.00716019 W  
SFO1 376.4607164 MHz  
SI 262144  
SF 376.4983660 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 2.00





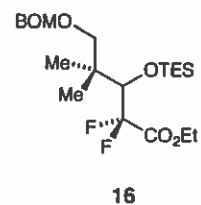
Acquisition Time (sec)	3.1719	Comment	ejt cry tes prot mPROTON CDCl3 /opt/bruk500data/2012/Jul ejt 10		Date	31 Jul 2012 11:08:00	
Date Stamp	31 Jul 2012 11:08:00	File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500data\bruk500data\2012\Jul\data\ejt\nmr\2012-07-31-ejt-10\10\data\11r				
Frequency (MHz)	500.13	Nucleus	1H	Number of Transients	16	Origin	spect
Original Points Count	32768	Owner	nmr1	Points Count	32768	Pulse Sequence	zg30b
Receiver Gain	90.50	SW(cyclical) (Hz)	10330.58	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	3080.2925
Spectrum Type	STANDARD	Sweep Width (Hz)	10330.26	Temperature (degree C)	27.000		



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	0.52	259.2	0.0866	10	0.69	347.1	0.0698	19	1.35	676.2	0.1536	28	4.29	2146.6	0.0634
2	0.53	267.0	0.0938	11	0.92	461.9	0.0986	20	1.36	679.7	0.0425	29	4.31	2153.9	0.0958
3	0.64	319.4	0.0536	12	0.94	469.7	0.1950	21	1.37	683.5	0.3057	30	4.32	2161.1	0.0920
4	0.65	323.8	0.0573	13	0.96	477.6	0.1019	22	1.38	690.4	0.1533	31	4.56	2278.4	0.0522
5	0.65	327.6	0.1427	14	0.96	479.5	0.0617	23	1.58	789.4	0.0789	32	4.58	2290.1	0.1087
6	0.66	331.7	0.1452	15	0.97	484.9	0.3933	24	3.30	1652.3	0.0458	33	4.62	2311.8	0.1047
7	0.67	335.4	0.1599	16	0.99	492.8	1.0000	25	3.32	1661.4	0.0594	34	4.65	2323.5	0.0587
8	0.68	339.5	0.1533	17	1.00	500.6	0.3154	26	3.43	1716.3	0.0788	35	4.72	2358.5	0.0520
9	0.69	343.6	0.0687	18	1.03	515.1	0.2534	27	3.45	1725.4	0.0613	36	4.73	2365.1	0.1230

No.	(ppm)	(Hz)	Height
37	4.75	2373.3	0.1291
38	4.76	2379.9	0.0568
39	7.27	3635.9	0.3093
40	7.35	3675.0	0.0455
41	7.36	3678.8	0.4257
42	7.36	3681.7	0.1335
43	7.37	3684.5	0.1228

ejt cry tes prot  
mCARBONnight CDCl3 {e:\bruk400data\2012\Jul} ejt 35

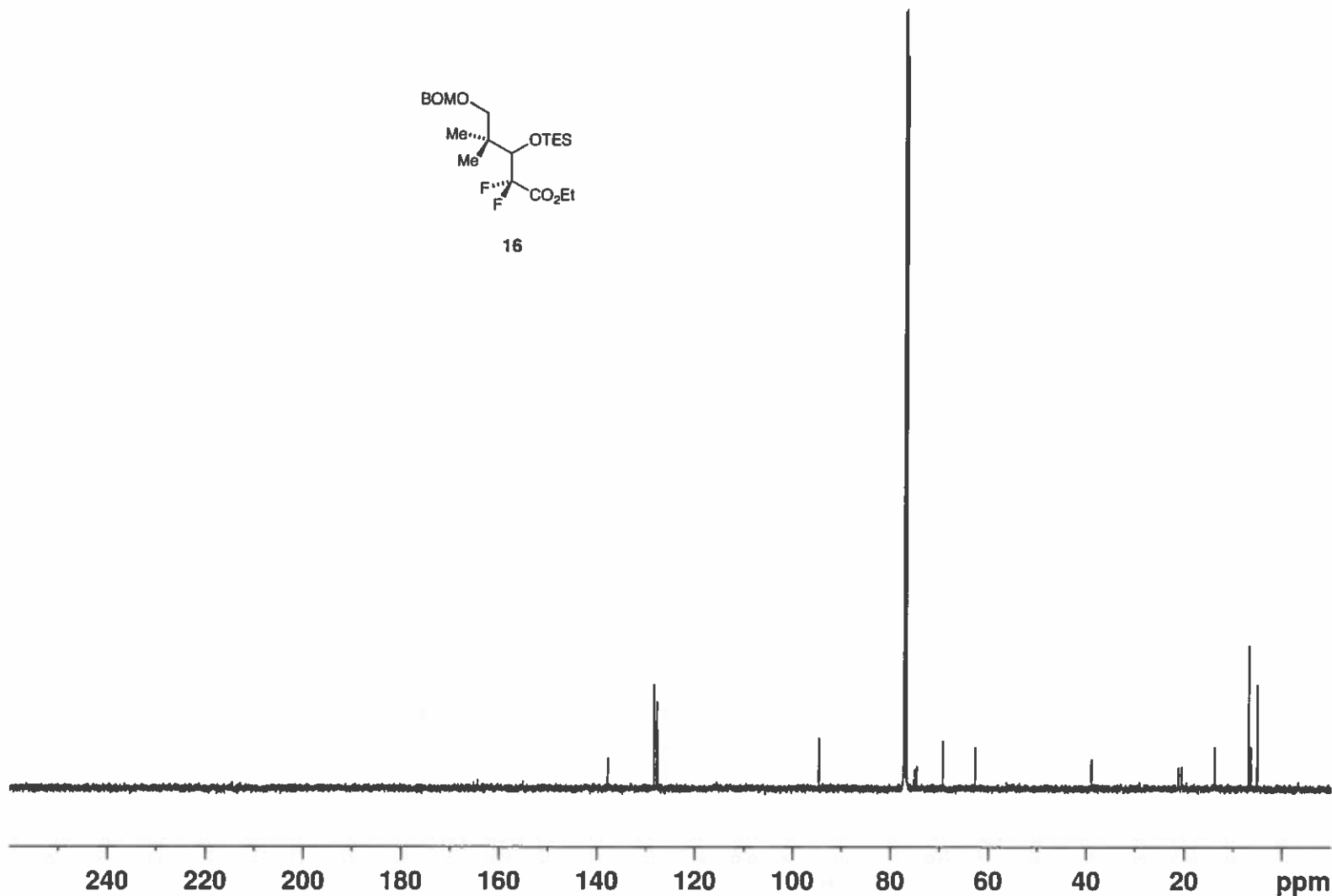


137.83  
128.44  
127.86  
127.71  
94.72  
77.34  
77.23  
77.02  
76.71  
75.33  
75.11  
74.68  
69.36  
62.75  
38.95  
21.16  
20.55  
13.83  
6.84  
6.42  
5.11

NAME 2012-07-31-ejt-35  
EXPNO 11  
PROCNO 1  
Date\_ 20120801  
Time 0.01  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 1000  
DS 2  
SWH 30241.936 Hz  
FIDRES 0.461455 Hz  
AQ 1.0835786 sec  
RG 512  
DW 16.533 usec  
DE 7.83 usec  
TE 296.1 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 13C  
P1 8.00 usec  
PL1 0.00 dB  
PL1W 34.91522217 W  
SFO1 100.6241042 MHz

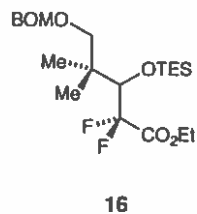
===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 90.00 usec  
PL2 -3.60 dB  
PL12 15.31 dB  
PL13 18.00 dB  
PL2W 17.83863831 W  
PL12W 0.22927761 W  
PL13W 0.12341322 W  
SFO2 400.1316005 MHz  
SI 32768  
SF 100.6127690 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



ejt cry tes prot  
mF19CPD CDCl3 {e:\bruk400data\2012\Jul} ejt 35



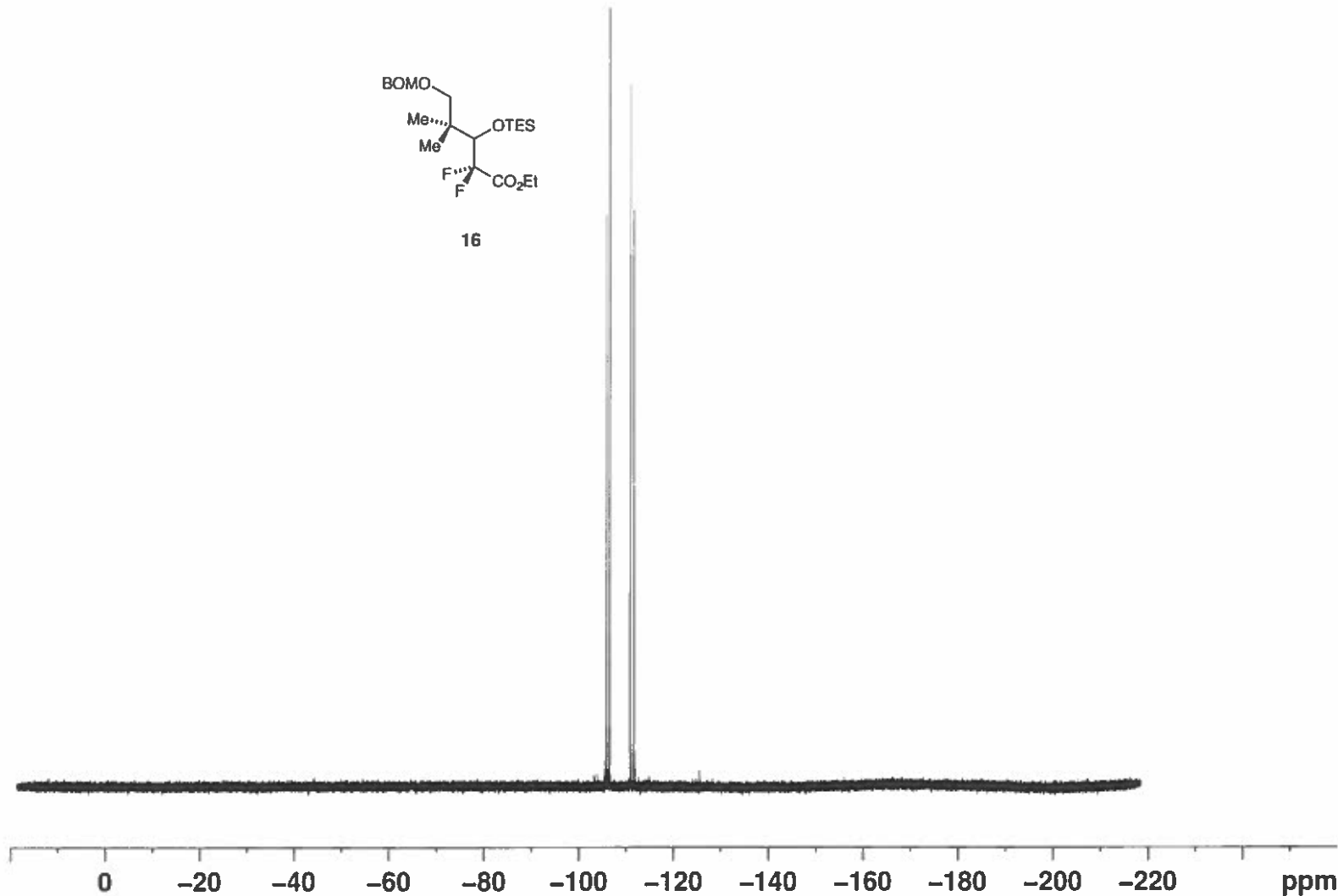
105.59  
105.78  
105.91  
106.19  
106.48  
106.61  
111.00  
111.28  
111.70  
111.98  
125.57



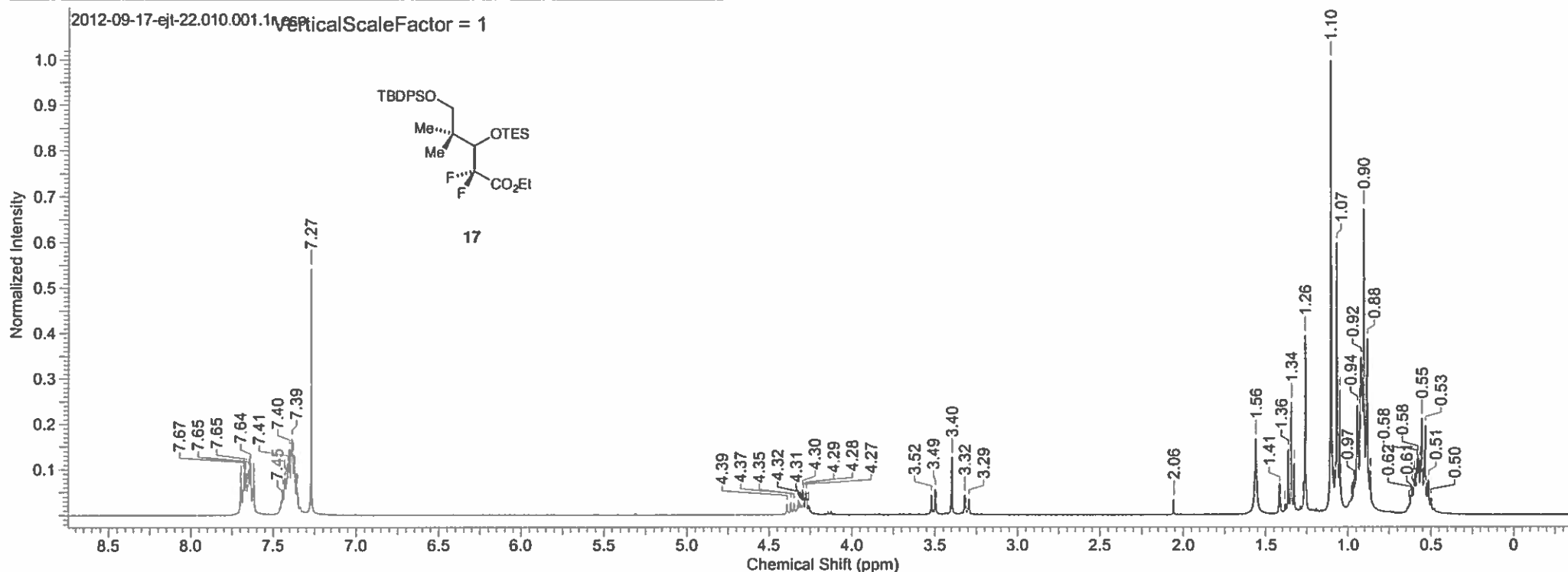
NAME 2012-07-31-ejt-35  
 EXPNO 10  
 PROCNO 1  
 Date\_ 20120731  
 Time 11.44  
 INSTRUM AV400  
 PROBHD 5 mm PABBO BB-  
 PULPROG zgig  
 TD 131072  
 SOLVENT CDCl3  
 NS 16  
 DS 4  
 SWH 89285.711 Hz  
 FIDRES 0.681196 Hz  
 AQ 0.7340532 sec  
 RG 4100  
 DW 5.600 usec  
 DE 7.51 usec  
 TE 295.6 K  
 D1 1.00000000 sec  
 D11 0.03000000 sec  
 TDO 1

===== CHANNEL f1 =====  
 NUC1 19F  
 P1 10.70 usec  
 PL1 -5.00 dB  
 PL1W 27.00716019 W  
 SFO1 376.4607164 MHz

===== CHANNEL f2 =====  
 CPDPRG2 waltz16  
 NUC2 1H  
 PCPD2 90.00 usec  
 PL2 -3.60 dB  
 PL12 15.31 dB  
 PL2W 17.83863831 W  
 PL12W 0.22927761 W  
 SFO2 400.1316005 MHz  
 SI 262144  
 SF 376.4983660 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 2.00

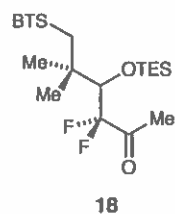


Acquisition Time (sec)	3.9649	Comment	ejt cry tes protection mPROTON CDCl3 (e:\bruk400data\2012\Sep) ejt 22				
Date	17 Sep 2012 15:04:48		Date Stamp	17 Sep 2012 15:04:48			
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400data\2012\Sep\data\ejt\nmr\2012-09-17-ejt-22\10\data\1\1r				Frequency (MHz)	400.13	
Nucleus	1H	Number of Transients	16	Origin	AV400	Original Points Count	32768
Owner	Administrator	Points Count	32768	Pulse Sequence	zg30b	Receiver Gain	287.00
SW(cyclical) (Hz)	8264.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	2464.6750	Spectrum Type	STANDARD
Sweep Width (Hz)	8264.21	Temperature (degree C)	22.200				



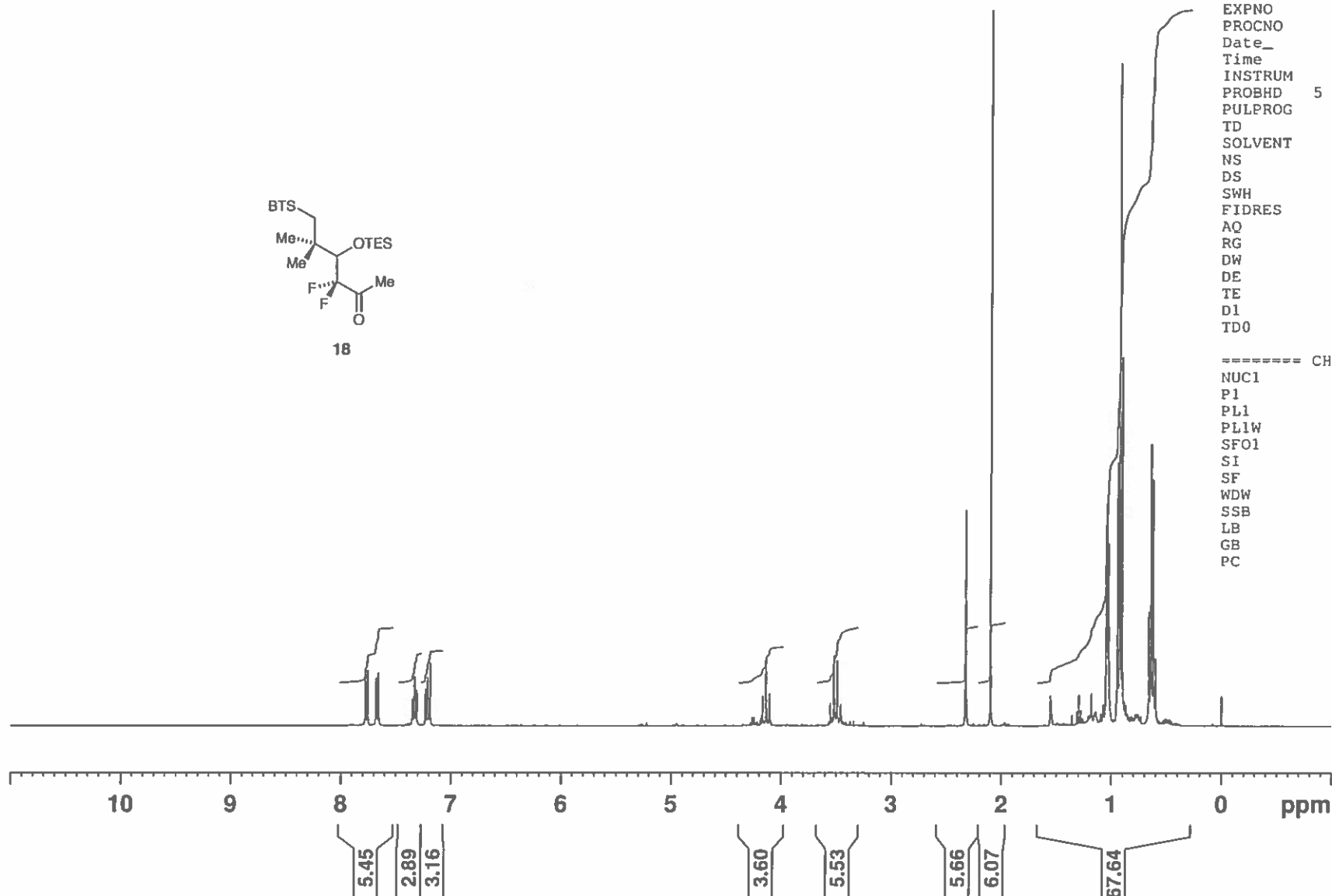
No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	0.50	198.9	0.0365	12	0.61	244.1	0.0597	23	0.94	377.0	0.2404	34	1.26	503.4	0.3944
2	0.51	205.2	0.0761	13	0.61	245.8	0.0438	24	0.95	378.3	0.2398	35	1.27	508.1	0.0415
3	0.53	213.1	0.1953	14	0.62	247.9	0.0422	25	0.96	383.8	0.0689	36	1.33	530.6	0.1129
4	0.54	217.3	0.0733	15	0.63	251.6	0.0247	26	0.97	386.3	0.0770	37	1.34	537.7	0.2470
5	0.55	220.9	0.2121	16	0.86	345.7	0.0959	27	0.97	389.4	0.0415	38	1.36	544.7	0.1441
6	0.56	225.2	0.1204	17	0.88	353.0	0.3885	28	0.98	391.6	0.0350	39	1.38	552.0	0.0236
7	0.58	230.2	0.1316	18	0.90	360.9	0.6733	29	1.05	419.6	0.2737	40	1.41	564.4	0.0379
8	0.58	233.0	0.1224	19	0.91	362.4	0.5130	30	1.07	426.7	0.5991	41	1.41	565.9	0.0633
9	0.59	236.0	0.0720	20	0.92	366.7	0.3024	31	1.08	432.5	0.0672	42	1.42	567.4	0.0394
10	0.60	238.3	0.0895	21	0.92	368.7	0.3475	32	1.09	434.5	0.0747	43	1.56	624.4	0.1664
11	0.60	240.5	0.0780	22	0.93	370.4	0.2798	33	1.10	440.8	1.0000	44	2.06	822.9	0.0340

me ketone  
mPROTON CDCl3 {e:\bruk400data\2012\Mar} ejt 38



NAME 2012-03-01-ejt-38  
EXPNO 10  
PROCNO 1  
Date\_ 20120301  
Time 14.22  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 144  
DW 60.500 usec  
DE 9.40 usec  
TE 295.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300383 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



me ketone  
mCARBONnight CDCl<sub>3</sub> {e:\bruk400data\2012\Mar} ejt 38



206.99  
199.77  
199.47

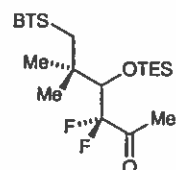
167.33

153.07

135.28  
126.00  
124.20  
121.44  
120.95  
116.94

77.35  
77.03  
76.83  
76.72  
76.59  
63.05

42.68  
39.49  
39.43  
30.95  
29.71  
26.21  
23.51  
23.09  
13.84  
6.91  
5.17  
5.12  
1.36

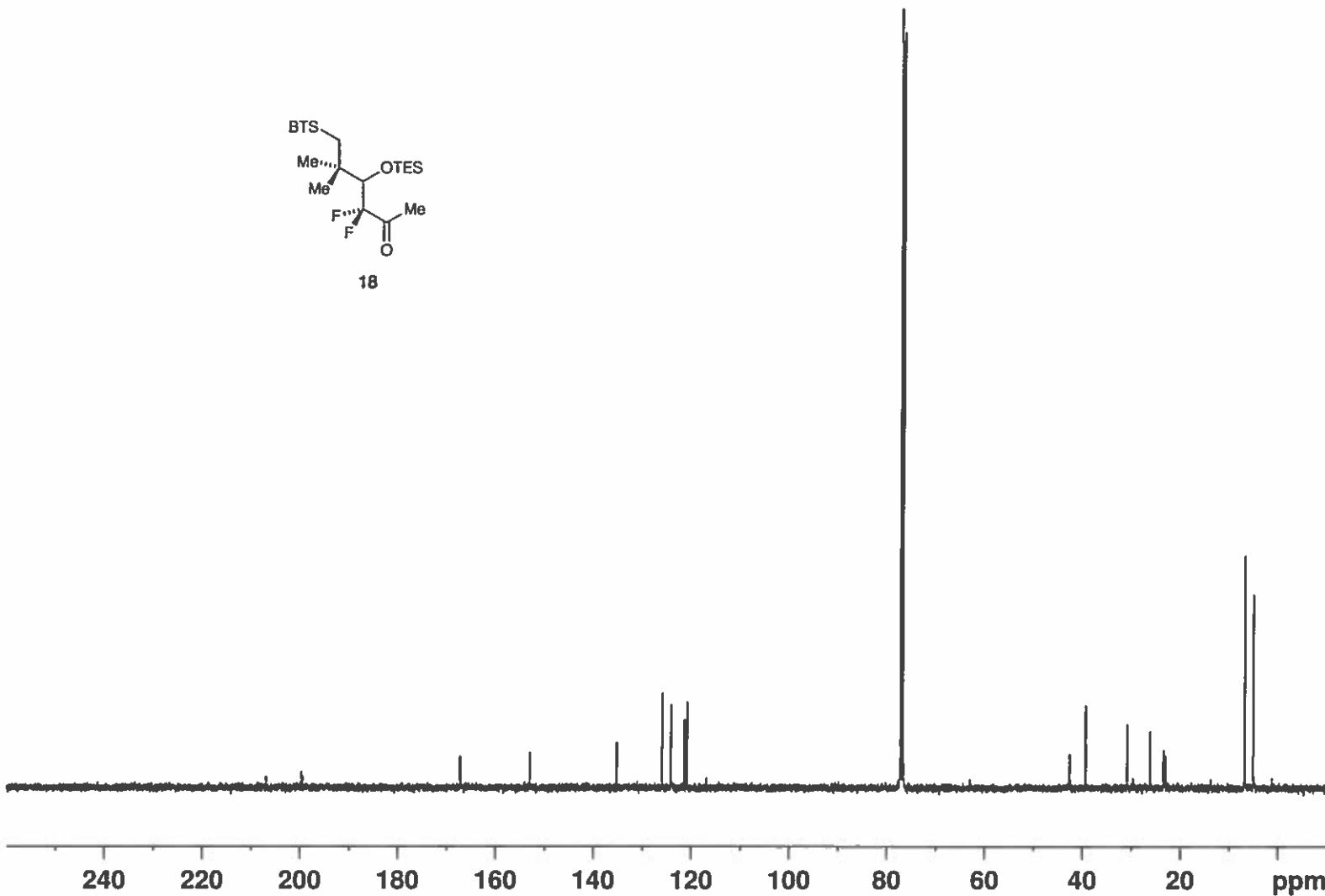


18

NAME 2012-03-01-ejt-38  
EXPNO 11  
PROCNO 1  
Date\_ 20120302  
Time 6.17  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl<sub>3</sub>  
NS 1000  
DS 2  
SWH 30241.936 Hz  
FIDRES 0.461455 Hz  
AQ 1.0835786 sec  
RG 512  
DW 16.533 usec  
DE 7.83 usec  
TE 295.5 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 13C  
P1 8.00 usec  
PL1 0.00 dB  
PL1W 34.91522217 W  
SFO1 100.6241042 MHz

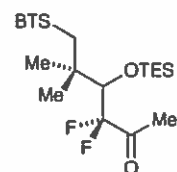
===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 90.00 usec  
PL2 -3.60 dB  
PL12 15.31 dB  
PL13 18.00 dB  
PL2W 17.83863831 W  
PL12W 0.22927761 W  
PL13W 0.12341322 W  
SFO2 400.1316005 MHz  
SI 32768  
SF 100.6127690 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



me ketone  
mF19CPD CDCl3 {e:\bruk400data\2012\Mar} ejt 38



-101.59  
-102.30  
-105.55  
-106.25  
-107.20  
-107.92  
-108.72  
-109.43  
-110.37  
-111.09  
-111.79

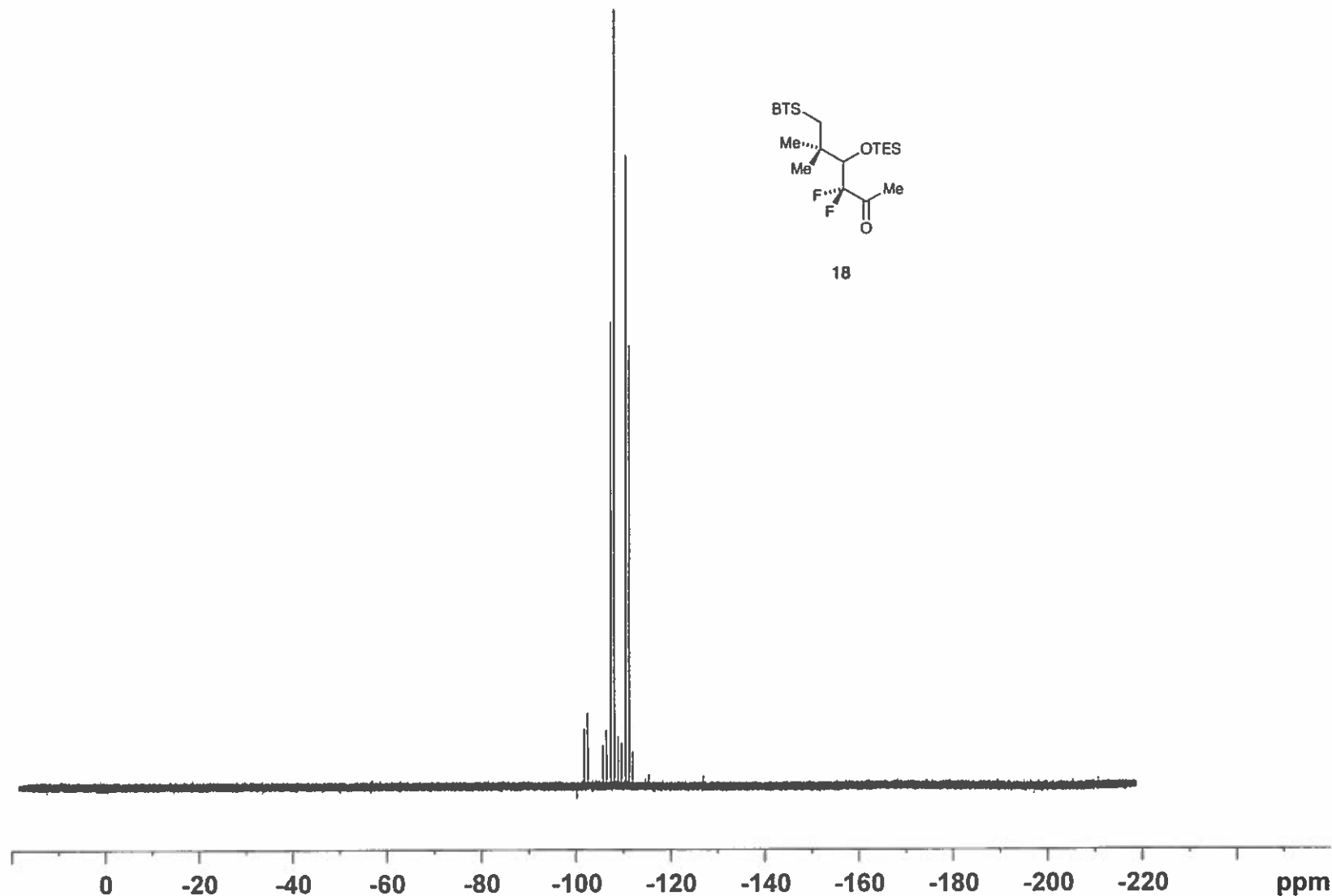


18

NAME 2012-03-01-ejt-38  
EXPNO 12  
PROCNO 1  
Date\_ 20120301  
Time\_ 14.23  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zgig  
TD 131072  
SOLVENT CDCl3  
NS 16  
DS 4  
SWH 89285.711 Hz  
FIDRES 0.681196 Hz  
AQ 0.7340532 sec  
RG 4100  
DW 5.600 usec  
DE 7.51 usec  
TE 295.1 K  
D1 1.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 19F  
P1 10.70 usec  
PL1 -5.00 dB  
PL1W 27.00716019 W  
SFO1 376.4607164 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 90.00 usec  
PL2 -3.60 dB  
PL12 15.31 dB  
PL2W 17.83863831 W  
PL12W 0.22927761 W  
SFO2 400.1316005 MHz  
SI 262144  
SF 376.4983660 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 2.00

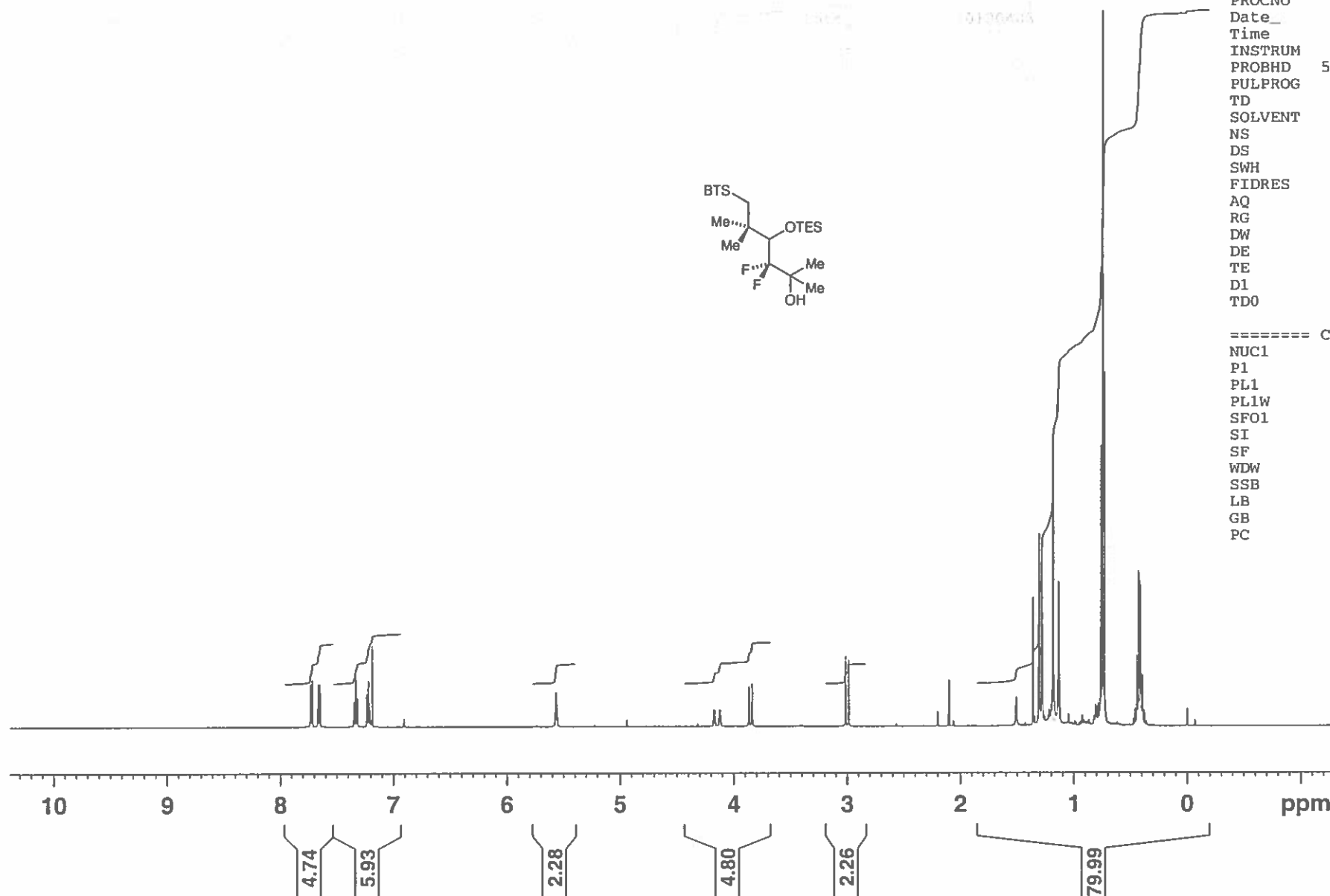
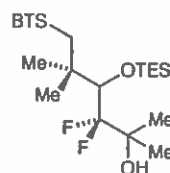


ejt cry wittig  
mPROTON CDCl3 /opt/bruk500data/2012/Apr ejt 31



NAME 2012-04-03-ejt-31  
EXPNO 10  
PROCNO 1  
Date\_ 20120403  
Time 11.34  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 144  
DW 48.400 usec  
DE 13.00 usec  
TE 295.4 K  
D1 1.00000000 sec  
TD0 1

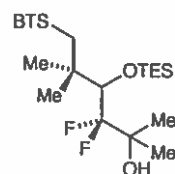
===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -0.10 dB  
PL1W 26.21803665 W  
SF01 500.1330885 MHz  
SI 32768  
SF 500.1300489 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00





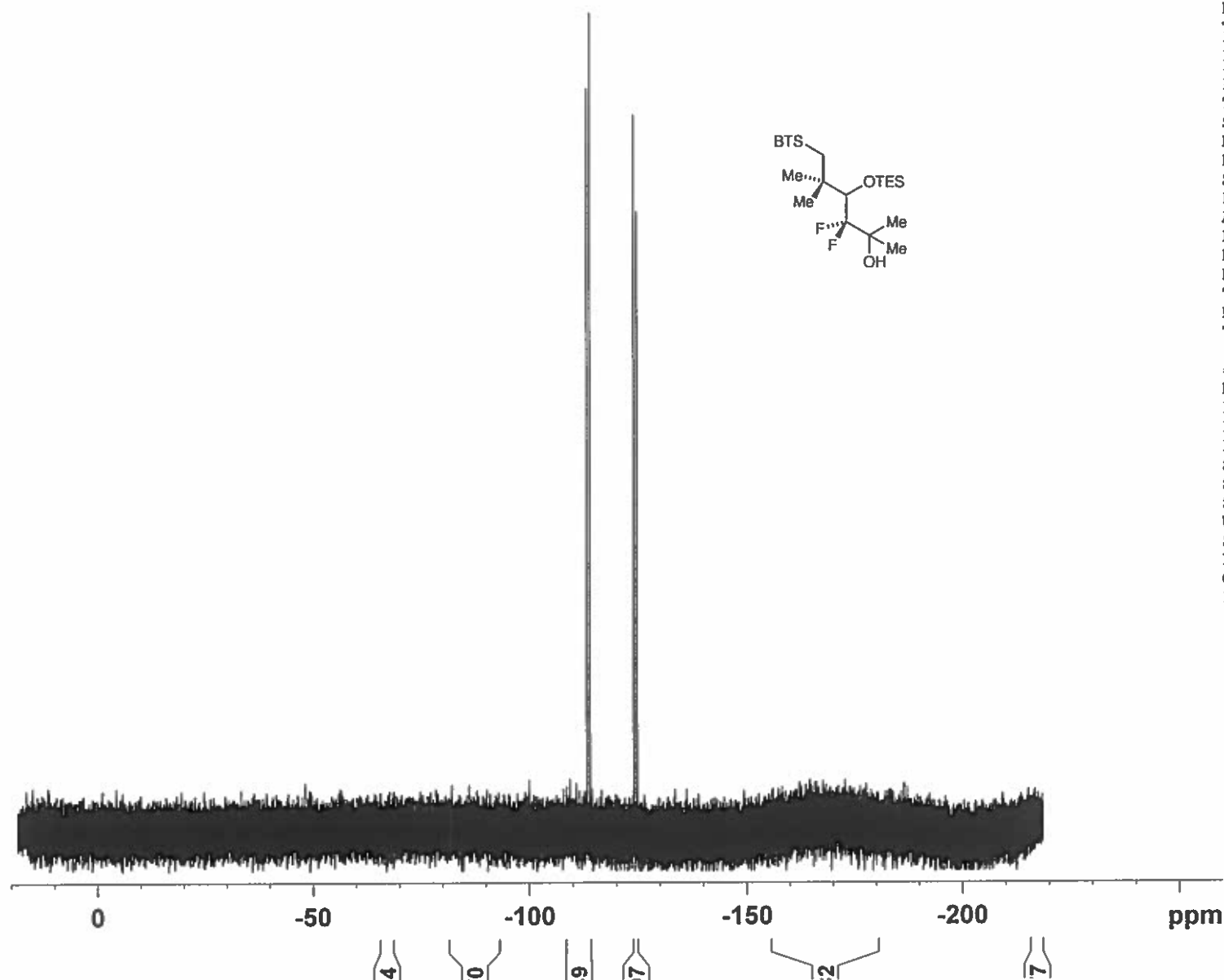
ejt cry mesylate r2  
 mF19 CDCl3 {e:\bruk400data\2012\Mar} ejt 60

-113.28  
 -113.00  
 -124.00  
 -124.10  
 -124.77  
 -124.77

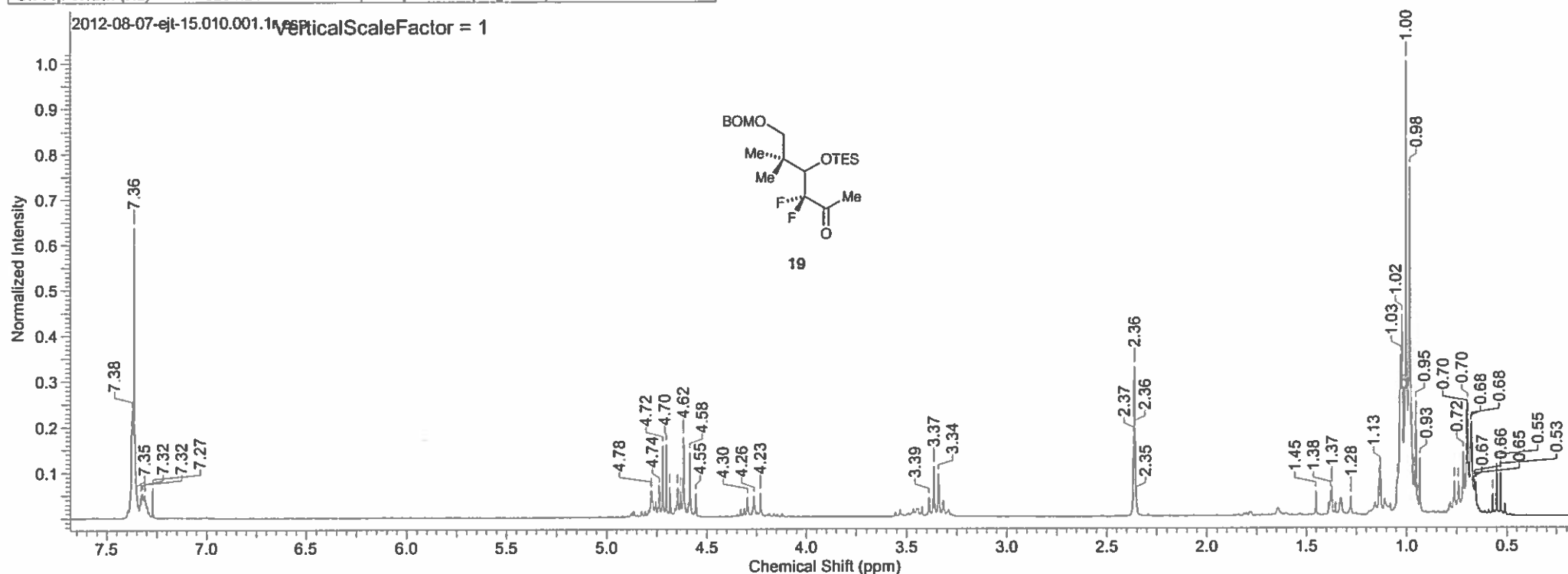


NAME 2012-03-30-ejt-60  
 EXPNO 10  
 PROCNO 1  
 Date\_ 20120330  
 Time\_ 17.57  
 INSTRUM AV400  
 PROBHD 5 mm PABBO BB-  
 PULPROG zg  
 TD 131072  
 SOLVENT CDCl3  
 NS 16  
 DS 4  
 SWH 89285.711 Hz  
 FIDRES 0.681196 Hz  
 AQ 0.7340532 sec  
 RG 4100  
 DW 5.600 usec  
 DE 11.01 usec  
 TE 295.1 K  
 D1 1.00000000 sec  
 TD0 1

===== CHANNEL f1 =====  
 NUC1 19F  
 P1 10.70 usec  
 PL1 -5.00 dB  
 PL1W 27.00716019 W  
 SFO1 376.4607164 MHz  
 SI 262144  
 SF 376.4983660 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 2.00



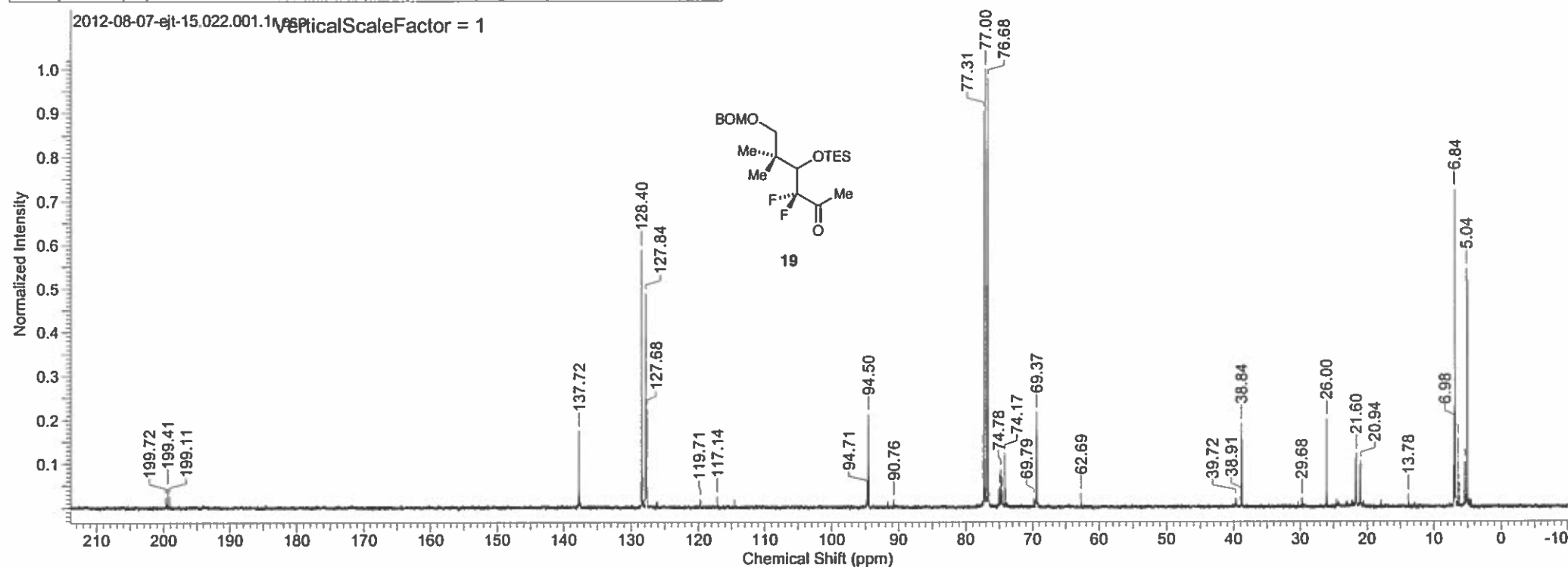
Acquisition Time (sec)	3.9649	Comment	ejt cry meli mPROTON CDCl3 (e:\bruk400data\2012\Aug) ejt 15		Date	07 Aug 2012 16:04:32	
Date Stamp	07 Aug 2012 16:04:32						
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400data\2012\Aug\data\ejt\nmr\2012-08-07-ejt-15\10\pdata\1\1r				Frequency (MHz)	400.13	
Nucleus	1H	Number of Transients	16	Origin	AV400	Original Points Count	32768
Owner	Administrator	Points Count	32768	Pulse Sequence	zg30b	Receiver Gain	57.00
SW(cyclical) (Hz)	8264.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	2464.9272	Spectrum Type	STANDARD
Sweep Width (Hz)	8264.21	Temperature (degree C)	22.200				



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	0.53	212.0	0.0952	12	0.71	282.9	0.0629	23	1.00	400.7	1.0000	34	1.45	581.3	0.0545
2	0.55	220.1	0.1146	13	0.72	287.2	0.1403	24	1.01	404.7	0.2829	35	2.35	941.7	0.0446
3	0.57	228.2	0.0492	14	0.74	296.8	0.0743	25	1.02	408.8	0.4415	36	2.36	943.5	0.1913
4	0.65	262.0	0.0748	15	0.76	304.9	0.0762	26	1.03	410.5	0.2809	37	2.36	945.2	0.3289
5	0.66	264.3	0.0802	16	0.93	373.5	0.1267	27	1.03	412.1	0.3534	38	2.37	946.7	0.1756
6	0.67	266.8	0.0663	17	0.94	377.2	0.0432	28	1.04	417.9	0.0848	39	3.34	1337.2	0.0945
7	0.68	270.3	0.2067	18	0.95	381.3	0.2509	29	1.13	451.9	0.0942	40	3.37	1346.5	0.1099
8	0.68	272.1	0.2004	19	0.96	385.1	0.0987	30	1.13	453.4	0.1088	41	3.39	1355.8	0.0427
9	0.69	275.1	0.0892	20	0.97	389.4	0.1997	31	1.28	511.2	0.0430	42	4.23	1692.8	0.0518
10	0.70	278.6	0.2478	21	0.98	392.9	0.7667	32	1.37	549.0	0.0650	43	4.26	1706.1	0.0454
11	0.70	279.6	0.2340	22	0.99	396.9	0.2736	33	1.38	552.0	0.0558	44	4.30	1719.0	0.0431

45	4.55	1822.4	0.0519
46	4.58	1834.0	0.1428
47	4.62	1846.9	0.1761
48	4.63	1853.2	0.0599
49	4.65	1858.7	0.0647
50	4.69	1874.6	0.0660
51	4.70	1881.2	0.1598
52	4.72	1888.5	0.1570
53	4.74	1895.1	0.0676
54	4.74	1896.8	0.0426
55	4.78	1910.7	0.0575

Acquisition Time (sec)	1.0835	Comment	ejt cry meli mCARBONnight CDCI3 (e:\bruk400data\2012\Aug)\ejt 15			Date	08 Aug 2012 01:51:12
Date Stamp	08 Aug 2012 01:51:12						
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400data\2012\Aug\data\ejt\snmr\2012-08-07-ejt-15\22\pdata\1\1r					Frequency (MHz)	100.61
Nucleus	13C	Number of Transients	1000	Origin	AV400	Original Points Count	32768
Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	512.00
SW(cyclical) (Hz)	30241.94	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	11330.3838	Spectrum Type	STANDARD
Sweep Width (Hz)	30241.01	Temperature (degree C)	23.100				



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	5.04	506.9	0.5443	11	13.78	1386.5	0.0286	21	69.31	6973.8	0.0433	31	77.00	7747.2	1.0000
2	5.40	542.9	0.1020	12	20.94	2107.3	0.1033	22	69.37	6979.3	0.2156	32	77.31	7778.6	0.9035
3	5.47	550.3	0.0425	13	21.12	2124.8	0.0187	23	69.45	6987.6	0.0507	33	90.76	9131.5	0.0177
4	6.26	629.7	0.0241	14	21.60	2172.8	0.1212	24	69.79	7021.8	0.0204	34	94.50	9508.1	0.2119
5	6.38	641.7	0.1556	15	26.00	2615.8	0.1999	25	74.17	7462.0	0.1225	35	94.68	9525.6	0.0300
6	6.74	678.6	0.0747	16	29.68	2985.9	0.0199	26	74.54	7499.8	0.0398	36	94.71	9529.3	0.0407
7	6.77	681.4	0.1883	17	38.84	3907.9	0.1899	27	74.63	7509.1	0.0360	37	117.14	11785.8	0.0240
8	6.80	684.1	0.1352	18	38.91	3915.3	0.0243	28	74.78	7523.8	0.0857	38	119.71	12044.3	0.0187
9	6.84	687.8	0.7244	19	39.72	3996.5	0.0196	29	75.02	7547.8	0.0449	39	127.68	12846.3	0.2237
10	6.98	702.6	0.1890	20	62.69	6307.4	0.0302	30	76.68	7714.9	0.9789	40	127.82	12860.1	0.2858

No.	(ppm)	(Hz)	Height
41	127.84	12862.0	0.4885
42	127.93	12871.2	0.0317
43	128.40	12918.3	0.5878
44	137.72	13856.9	0.1744
45	137.80	13864.2	0.0260
46	199.11	20033.0	0.0260
47	199.41	20063.4	0.0447
48	199.72	20093.9	0.0240





```

NAME          2012-09-28-ejt-20
EXPNO              13
PROCNO          1
Date_            20120929
Time              10.56
INSTRUM          AV400
PROBHD           5 mm PABBO BB-
PULPROG          zgpg30
TD               65536
SOLVENT          CDC13
NS               256
DS               2
SWH              30241.936 Hz
FIDRES          0.461455 Hz
AQ              1.0835786 sec
RG              512
DW              16.533 usec
DE              7.83 usec
TE              295.4 K
D1              2.00000000 sec
D11             0.03000000 sec
TD0             1

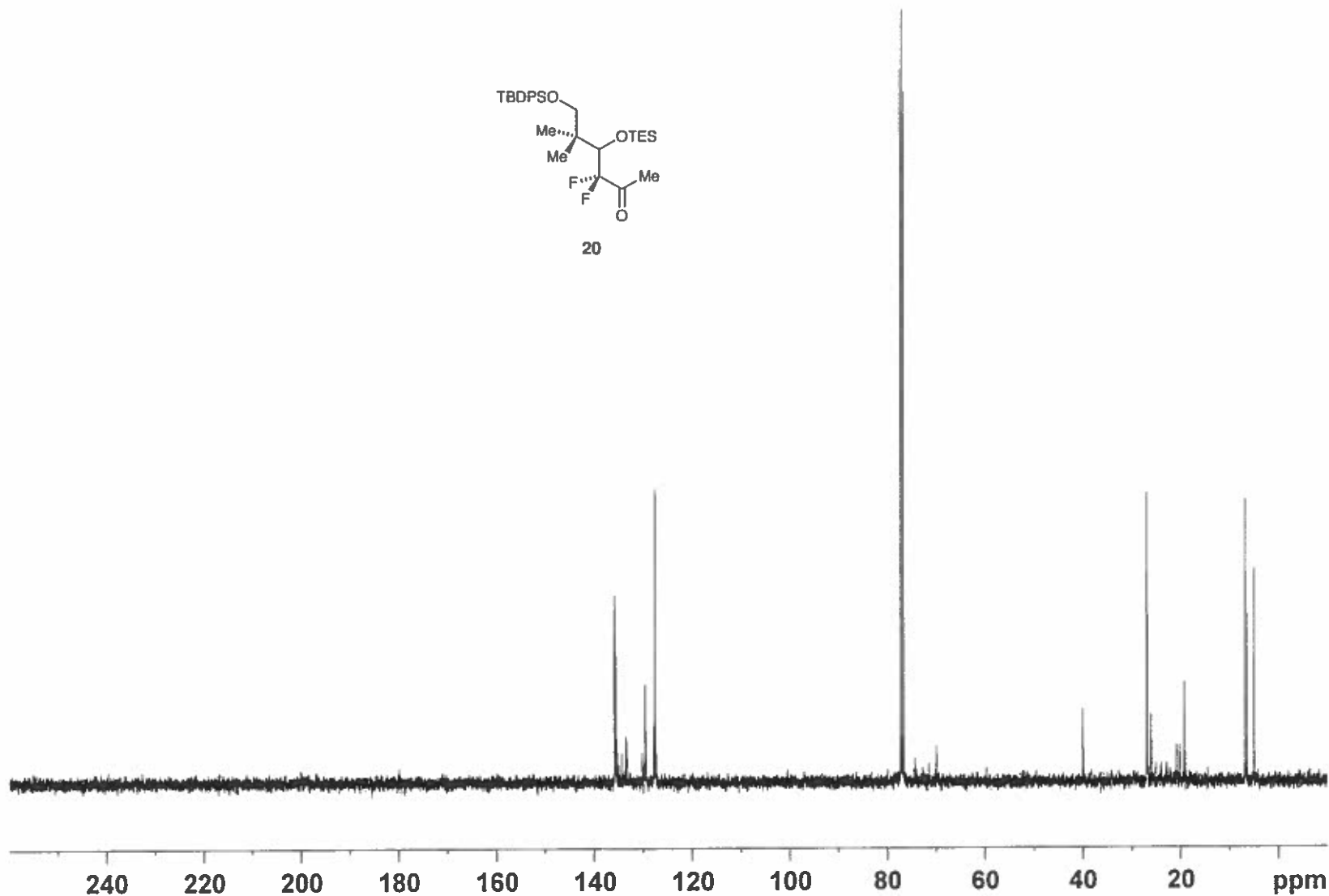
```

```
===== CHANNEL f1 =====
NUC1          13C
P1             8.00 usec
PL1            0.00 dB
PL1W          34.9152217 W
SFO1          100.6241042 MHz
```

```

***** CHANNEL f2 *****
CPDPRG2          waltz16
NUC2              1H
PCPD2            90.00 usec
PL2              -3.60 dB
PL12             15.31 dB
PL13             18.00 dB
PL2W             17.83863831 W
PL12W            0.22927761 W
PL13W            0.12341322 W
SFO2             400.1316005 MHz
SI               32768
SF              100.6127690 MHz
WDW              EM
SSB              0
LB               1.00 Hz
GB               0
PC               1.40

```

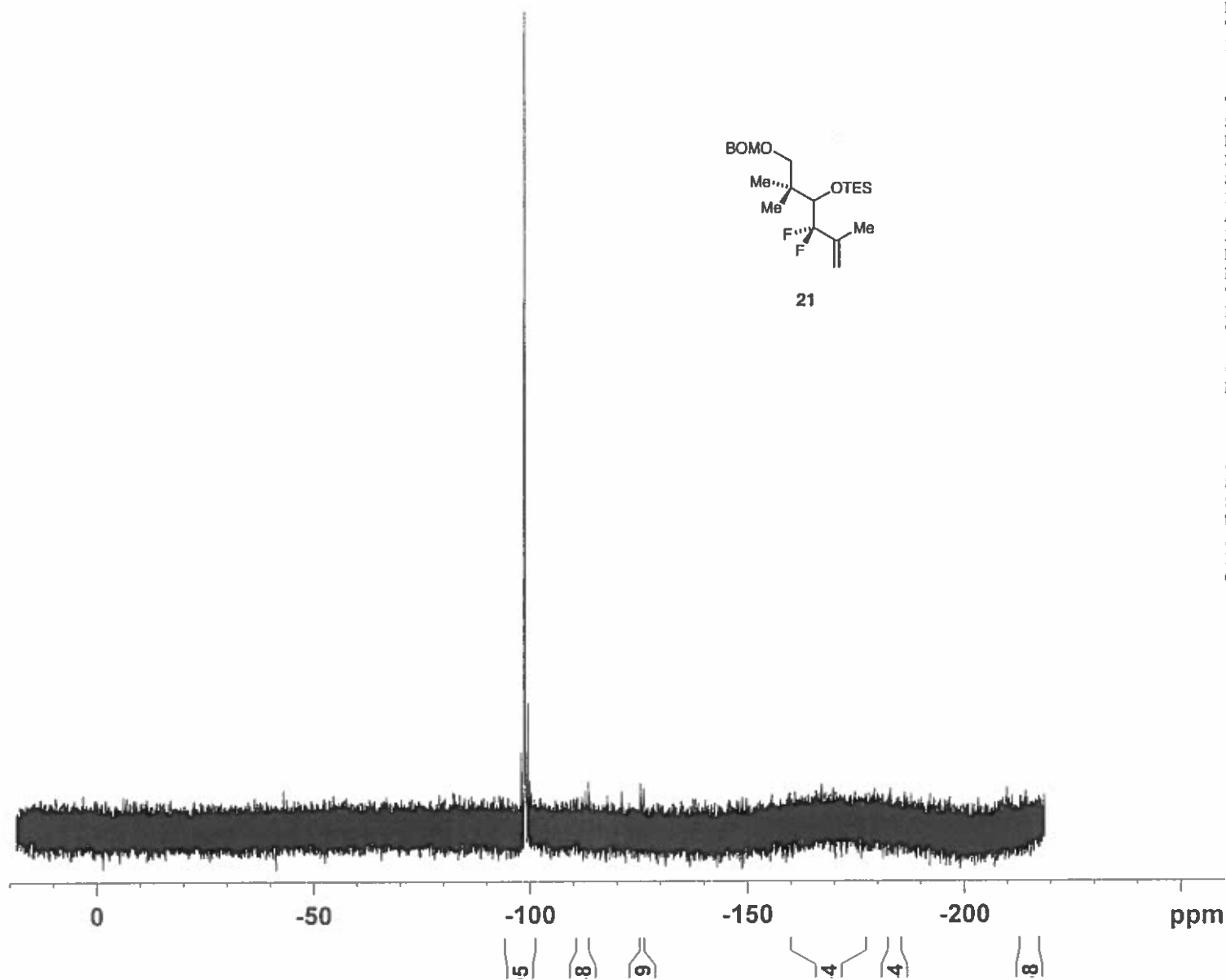
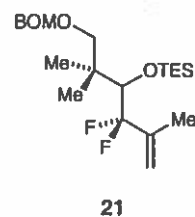


2012-08-06-jl-15.010.001.1.msp | VerticalScaleFactor = 1 | 69



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	0.65	327.6	0.0833	10	0.96	481.7	0.0726	19	3.30	1649.5	0.0662	28	4.63	2314.0	0.1497	37	7.31	3654.5	0.0471
2	0.66	330.7	0.0898	11	0.98	487.7	0.9220	20	3.32	1658.6	0.0885	29	4.65	2325.7	0.0829	38	7.31	3657.7	0.0381
3	0.67	335.8	0.2117	12	0.99	495.3	1.0000	21	3.42	1709.4	0.1050	30	4.73	2365.7	0.0640	39	7.32	3659.6	0.0439
4	0.68	338.6	0.2200	13	1.01	503.5	0.4271	22	3.44	1718.5	0.0793	31	4.74	2372.4	0.1916	40	7.32	3663.1	0.0375
5	0.69	344.0	0.2262	14	1.03	517.4	0.3013	23	4.02	2012.3	0.0466	32	4.75	2377.7	0.1894	41	7.35	3676.0	0.0414
6	0.69	346.2	0.2280	15	1.27	632.7	0.0427	24	4.05	2023.1	0.0813	33	4.77	2384.3	0.0667	42	7.36	3681.0	0.6262
7	0.70	352.2	0.0968	16	1.44	722.6	0.1420	25	4.07	2033.8	0.0442	34	5.15	2575.1	0.0948	43	7.37	3684.5	0.2032
8	0.71	354.0	0.1020	17	1.59	794.5	0.0578	26	4.56	2281.3	0.0744	35	5.40	2701.8	0.0979	44	7.37	3686.1	0.2121
9	0.95	474.8	0.0435	18	1.91	956.8	0.3996	27	4.58	2292.9	0.1522	36	7.27	3635.9	0.2110				

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	5.04	633.4	0.2561	8	21.14	2657.9	0.0346	15	76.75	9651.6	0.9667	22	116.22	14616.1	0.0151	29	127.99	16095.7	0.0101
2	6.41	806.0	0.0136	9	30.29	3808.7	0.0208	16	76.86	9666.1	0.0343	23	119.29	15002.1	0.0117	30	128.40	16147.4	0.1971
3	6.76	849.6	0.0164	10	38.81	4880.5	0.0501	17	77.00	9683.3	1.0000	24	121.26	15249.2	0.0223	31	137.87	17338.2	0.0763
4	6.95	874.1	0.3625	11	69.25	8708.8	0.1144	18	77.25	9715.1	0.9716	25	123.22	15496.2	0.0117	32	140.40	17657.0	0.0125
5	19.05	2395.5	0.0298	12	75.02	9434.5	0.0423	19	94.74	11914.0	0.0742	26	127.66	16054.8	0.1289	33	140.59	17680.6	0.0279
6	19.07	2398.2	0.0512	13	76.41	9609.8	0.0225	20	116.08	14598.0	0.0146	27	127.74	16064.8	0.0119	34	140.78	17704.2	0.0156
7	20.60	2590.7	0.0517	14	76.64	9637.9	0.0394	21	116.15	14607.0	0.0313	28	127.84	16076.6	0.2612				



NAME	2012-08-07-ejt-14	
EXPNO	10	
PROCNO	1	
Date	20120807	
Time	15.57	
INSTRUM	AV400	
PROBHD	5 mm PABBO BB-	
PULPROG	zg	
TD	131072	
SOLVENT	CDC13	
NS	16	
DS	4	
SWH	89285.711	Hz
FIDRES	0.681196	Hz
AQ	0.7340532	sec
RG	4100	
DW	5.600	usec
DE	11.01	usec
TE	295.2	K
D1	1.00000000	sec
TD0	1	

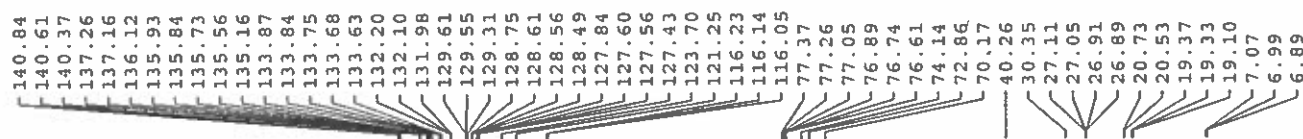
```

===== CHANNEL f1 =====
NUC1                19F
P1                  10.70  usec
PL1                 -5.00  dB
PL1W                27.00716019 W
SFO1                376.4607164 MHz
SI                  262144
SF                  376.4983660 MHz
WDW                  EM
SSB                  0
LB                   0.30  Hz
GB                   0
PC                   2.00

```



Acquisition Time (sec)	3.9649	Comment	ejt cry wittig mPROTONnight CDCI3 (e:\bruk400data\2012\Sep) ejt 47		Date	23 Sep 2012 05:48:00	
Date Stamp	23 Sep 2012 05:48:00						
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmr\data\bruk400data\2012\Sep\data\ejt\nmr\2012-09-21-ejt-47\10\data\1\1r				Frequency (MHz)	400.13	
Nucleus	1H	Number of Transients	16	Origin	AV400	Original Points Count	32768
Owner	Administrator	Points Count	32768	Pulse Sequence	zg30b	Receiver Gain	40.30
SW(cyclical) (Hz)	8264.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	2464.9272	Spectrum Type	STANDARD
Sweep Width (Hz)	8264.21	Temperature (degree C)	21.200				



```

NAME      2012-09-21-ejt-47
EXPNO          11
PROCNO        1
Date_          20120923
Time          6.40
INSTRUM       AV400
PROBHD        5 mm PABBO BB-
PULPROG       zgpg30
TD            65536
SOLVENT       CDC13
NS            1000
DS            2
SWH           30241.936 Hz
FIDRES        0.461455 Hz
AQ            1.0835786 sec
RG            512
DW            16.533 usec
DE            7.83 usec
TE            294.9 K
D1            2.00000000 sec
D11           0.03000000 sec
TD0           1

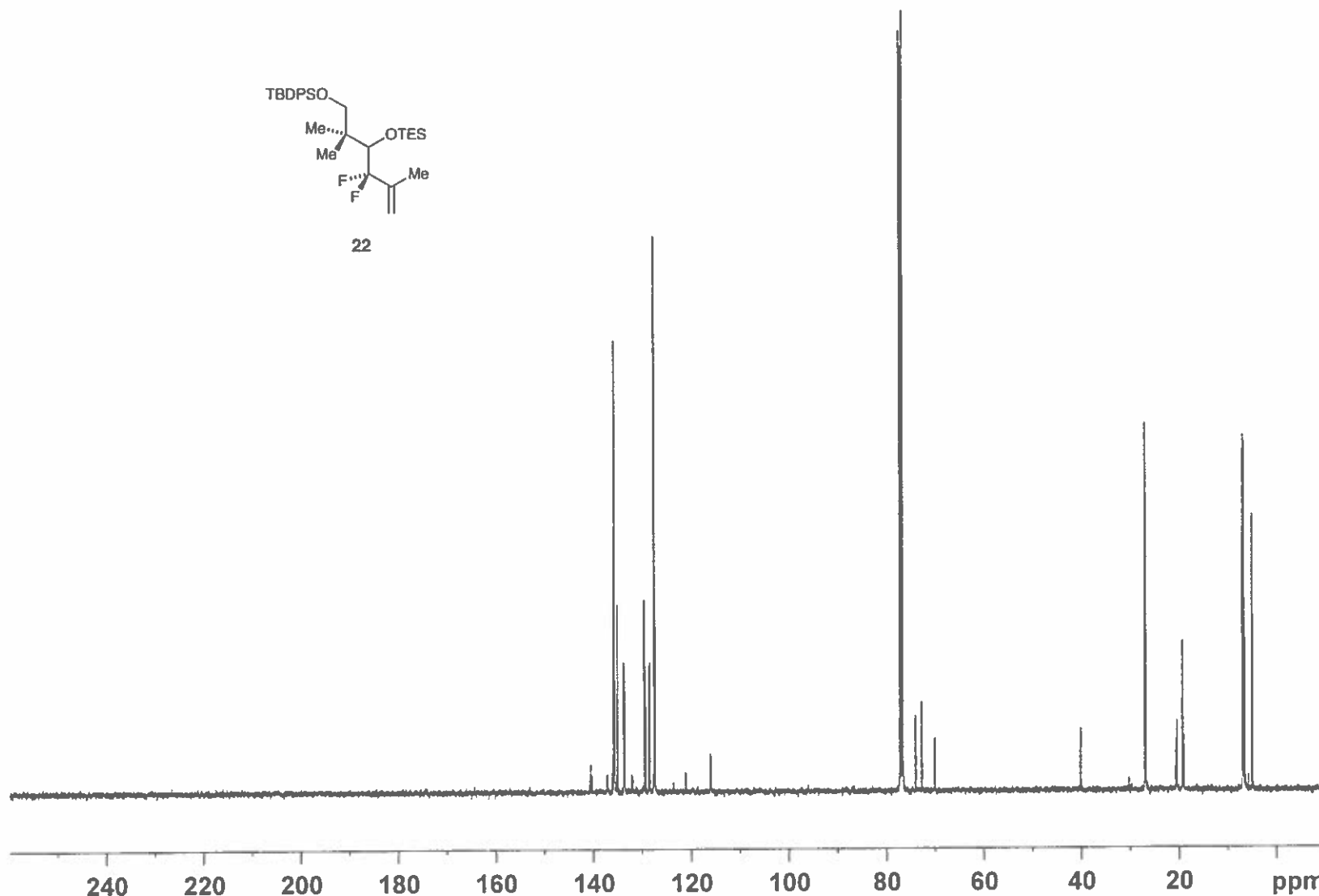
```

```
===== CHANNEL f1 =====
NUC1                13C
P1                   8.00 usec
PL1                  0.00 dB
PL1W                 34.9152217 W
SFQ1                 100.6241042 Mhz
```

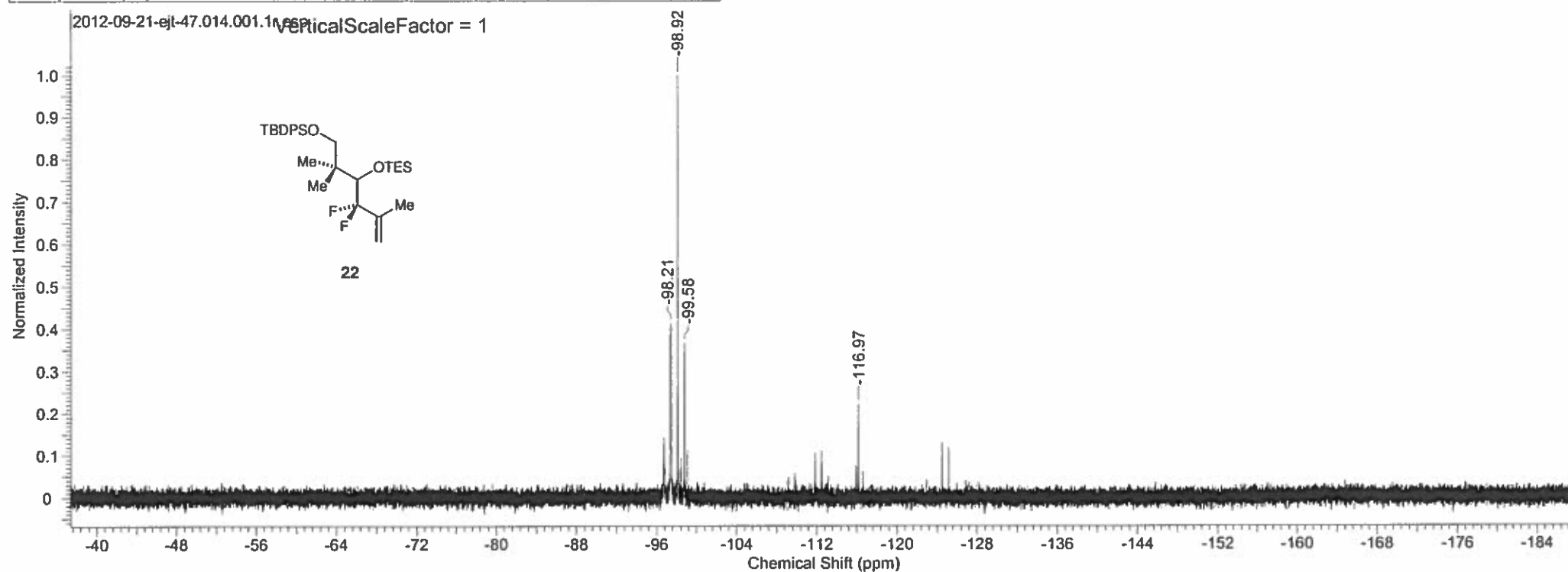
```

===== CHANNEL f2 =====
CPDPRG2      waitz16
NUC2         1H
PCPD2        90.00 usec
PL2          -3.60 dB
PL12         15.31 dB
PL13         18.00 dB
PL2W         17.83863831 W
PL12W        0.22927761 W
PL13W        0.12341322 W
SFO2         400.1316005 MHz
SI           32768
SF           100.6127690 MHz
WDW          EM
SSB          0
LB           1.00 Hz
GB           0
PC           1.40

```

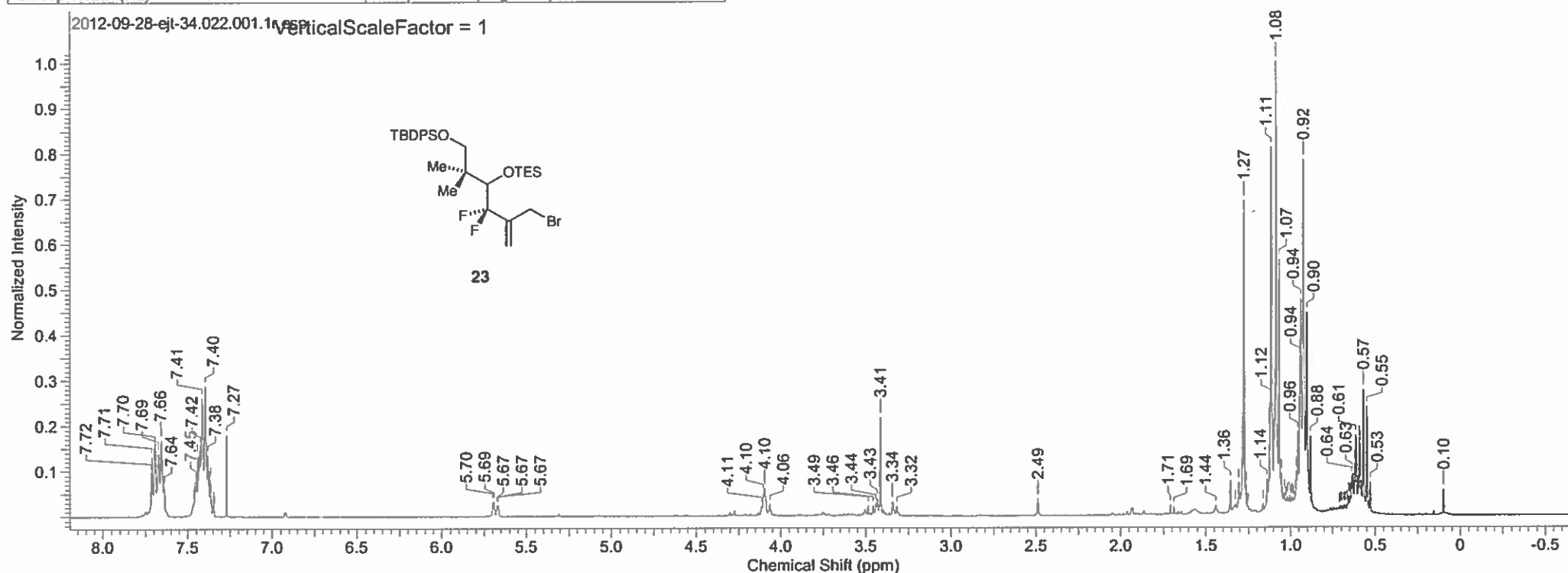


Acquisition Time (sec)	0.7340	Comment	ejt cry wittig mF19CPD CDCI3 (e:\bruk400data\2012\Sep) ejt 47		Date	21 Sep 2012 17:08:32	
Date Stamp	21 Sep 2012 17:08:32						
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmr\data\bruk400data\2012\Sep\data\ejt\nmr\2012-09-21-ejt-47\14\data\1\1r				Frequency (MHz)	376.50	
Nucleus	19F	Number of Transients	16	Origin	AV400	Original Points Count	65536
Owner	Administrator	Points Count	262144	Pulse Sequence	zgig	Receiver Gain	4100.00
SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37649.5977	Spectrum Type	STANDARD
Sweep Width (Hz)	89285.37	Temperature (degree C)	21.300				



No.	(ppm)	(Hz)	Height
1	-116.97	-44039.7	0.2203
2	-99.58	-37493.1	0.3652
3	-98.92	-37241.4	1.0000
4	-98.21	-36974.7	0.4116

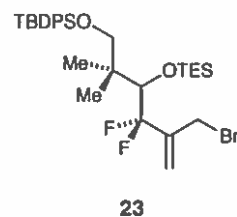
<b>Acquisition Time (sec)</b>	3.9649	<b>Comment</b>	ejt cry bromination mPROTONnight CDCI3 (e:\bruk400data\2012\Sep) ejt 34			
<b>Date</b>	29 Sep 2012 06:41:20	<b>Date Stamp</b>	29 Sep 2012 06:41:20			
<b>File Name</b>	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmr\data\bruk400data\2012\Sep\data\ejt\nmr\2012-09-28-ejt-34\22\pdata\111r			<b>Frequency (MHz)</b>	400.13	
<b>Nucleus</b>	1H	<b>Number of Transients</b>	16	<b>Origin</b>	AV400	
<b>Owner</b>	Administrator	<b>Points Count</b>	32768	<b>Pulse Sequence</b>	zg30b	
<b>SW(cyclical) (Hz)</b>	8264.46	<b>Solvent</b>	CHLOROFORM-d	<b>Spectrum Offset (Hz)</b>	2464.9272	<b>Spectrum Type</b>
<b>Sweep Width (Hz)</b>	8264.21	<b>Temperature (degree C)</b>	21.900			



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	0.10	39.3	0.0569	12	0.64	255.4	0.0854	23	0.92	369.2	0.7846	34	1.02	410.0	0.0333	45	1.25	500.8	0.0197
2	0.53	211.5	0.0728	13	0.65	258.7	0.0423	24	0.94	374.7	0.4768	35	1.04	414.6	0.0491	46	1.26	505.6	0.0664
3	0.55	219.6	0.2398	14	0.66	262.7	0.0431	25	0.94	377.2	0.3485	36	1.05	421.1	0.0929	47	1.27	510.2	0.6938
4	0.57	227.4	0.2773	15	0.67	266.3	0.0256	26	0.96	382.8	0.1848	37	1.07	426.4	0.5648	48	1.31	522.3	0.0724
5	0.58	232.0	0.0477	16	0.67	270.1	0.0215	27	0.96	386.1	0.0974	38	1.07	430.0	0.1603	49	1.33	530.8	0.0254
6	0.59	235.8	0.1562	17	0.68	273.3	0.0229	28	0.98	391.6	0.0344	39	1.08	433.5	1.0000	50	1.36	542.4	0.0765
7	0.59	236.8	0.1676	18	0.69	277.4	0.0206	29	0.99	394.1	0.0378	40	1.09	436.8	0.2914	51	1.44	577.0	0.0218
8	0.60	240.0	0.0879	19	0.70	281.4	0.0220	30	0.99	396.4	0.0415	41	1.11	444.8	0.8124	52	1.69	675.4	0.0202
9	0.61	244.8	0.1781	20	0.71	284.9	0.0185	31	1.00	398.7	0.0372	42	1.12	447.9	0.2577	53	1.71	683.2	0.0231
10	0.62	247.9	0.1145	21	0.88	352.3	0.1744	32	1.01	402.2	0.0435	43	1.14	455.2	0.0789	54	2.49	995.7	0.0366
11	0.63	252.7	0.0927	22	0.90	360.9	0.4475	33	1.02	407.3	0.0412	44	1.16	465.0	0.0262	55	3.32	1328.1	0.0218

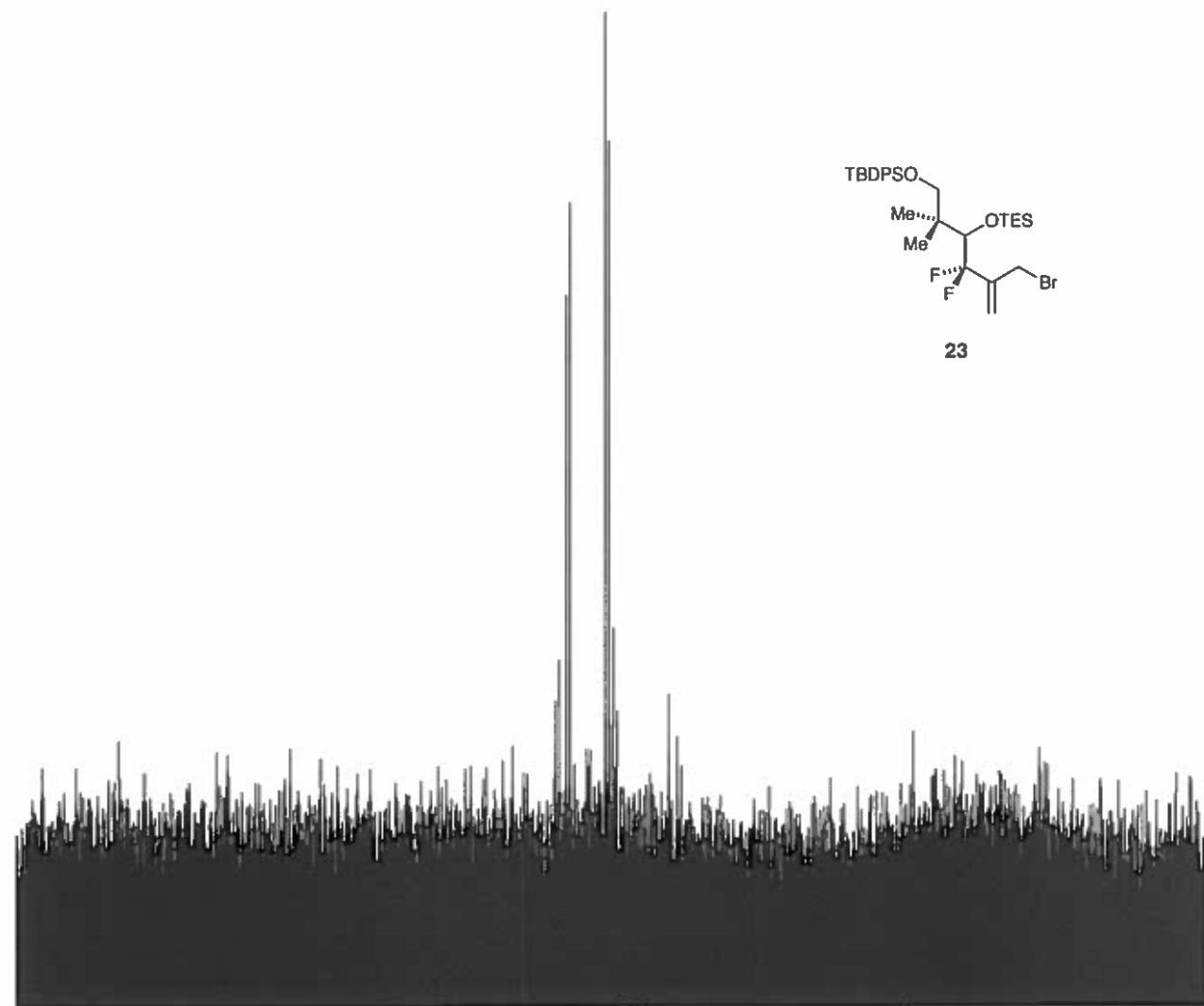
ejt cry bromination  
mF19 CDCl3 {e:\bruk400data\2012\Sep} ejt 34

-91.2  
-91.8  
-98.9  
-99.6



NAME 2012-09-28-ejt-34  
EXPNO 20  
PROCNO 1  
Date\_ 20120928  
Time 13.29  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg  
TD 131072  
SOLVENT CDCl3  
NS 16  
DS 4  
SWH 89285.711 Hz  
FIDRES 0.681196 Hz  
AQ 0.7340532 sec  
RG 4100  
DW 5.600 usec  
DE 11.01 usec  
TE 295.2 K  
D1 1.00000000 sec  
TD0 1

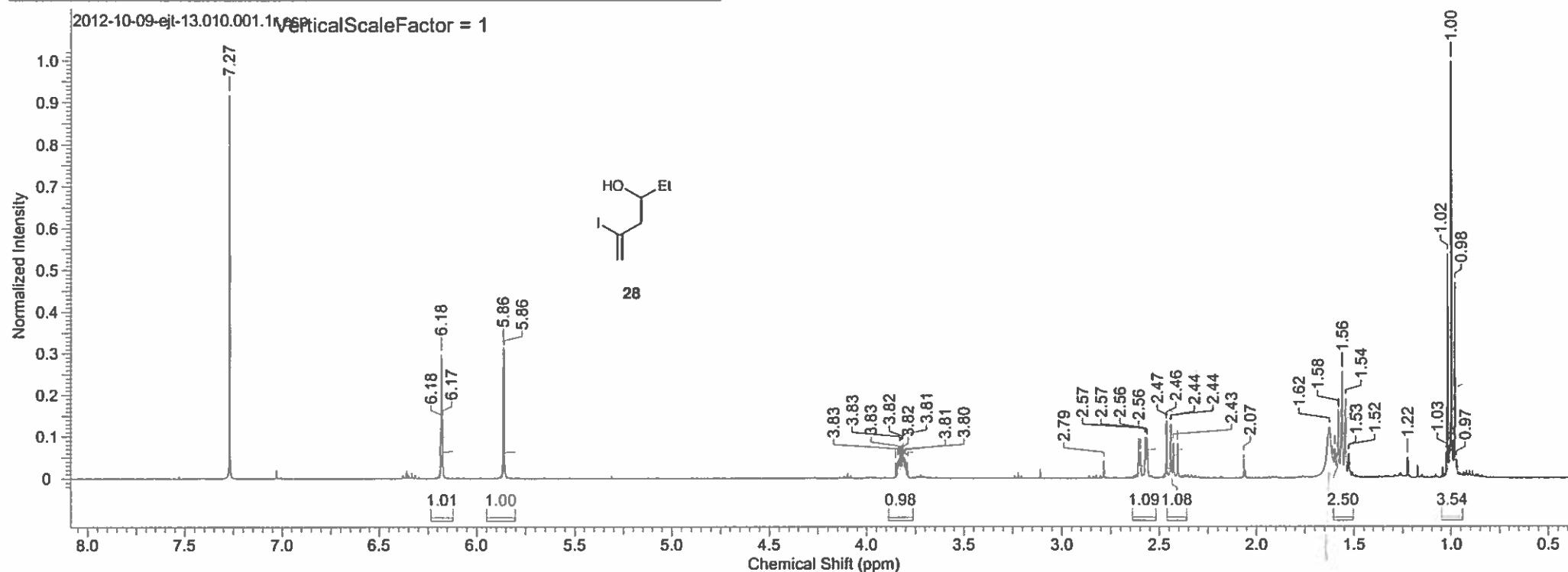
===== CHANNEL f1 =====  
NUC1 19F  
P1 10.70 usec  
PL1 -5.00 dB  
PL1W 27.00716019 W  
SF01 376.4607164 MHz  
SI 262144  
SF 376.4983660 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 2.00



0 -50 -100 -150 -200 ppm

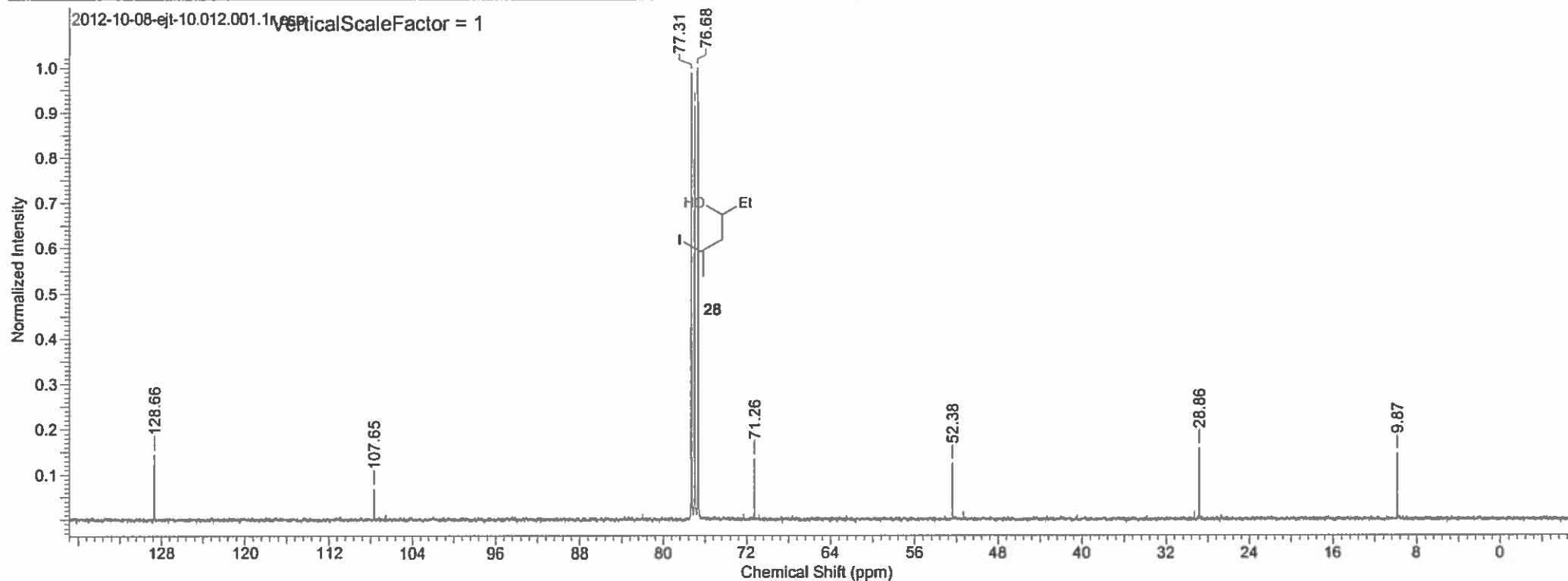
2 1 5 2 6 6 5 8

Acquisition Time (sec)	3.9649	Comment	ejt cry vinyl iodide mPROTON CDCl3 (e:\bruk400data\2012\Oct) ejt 13		Date	09 Oct 2012 12:46:08	
Date Stamp	09 Oct 2012 12:46:08						
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400data\2012\Oct\data\ejt\1nmr\2012-10-09-ejt-13\10\data\1\1r				Frequency (MHz)	400.13	
Nucleus	1H	Number of Transients	16	Origin	AV400	Original Points Count	32768
Owner	Administrator	Points Count	32768	Pulse Sequence	zg30b	Receiver Gain	322.00
SW(cyclical) (Hz)	8264.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	2464.9272	Spectrum Type	STANDARD
Sweep Width (Hz)	8264.21	Temperature (degree C)	21.300				



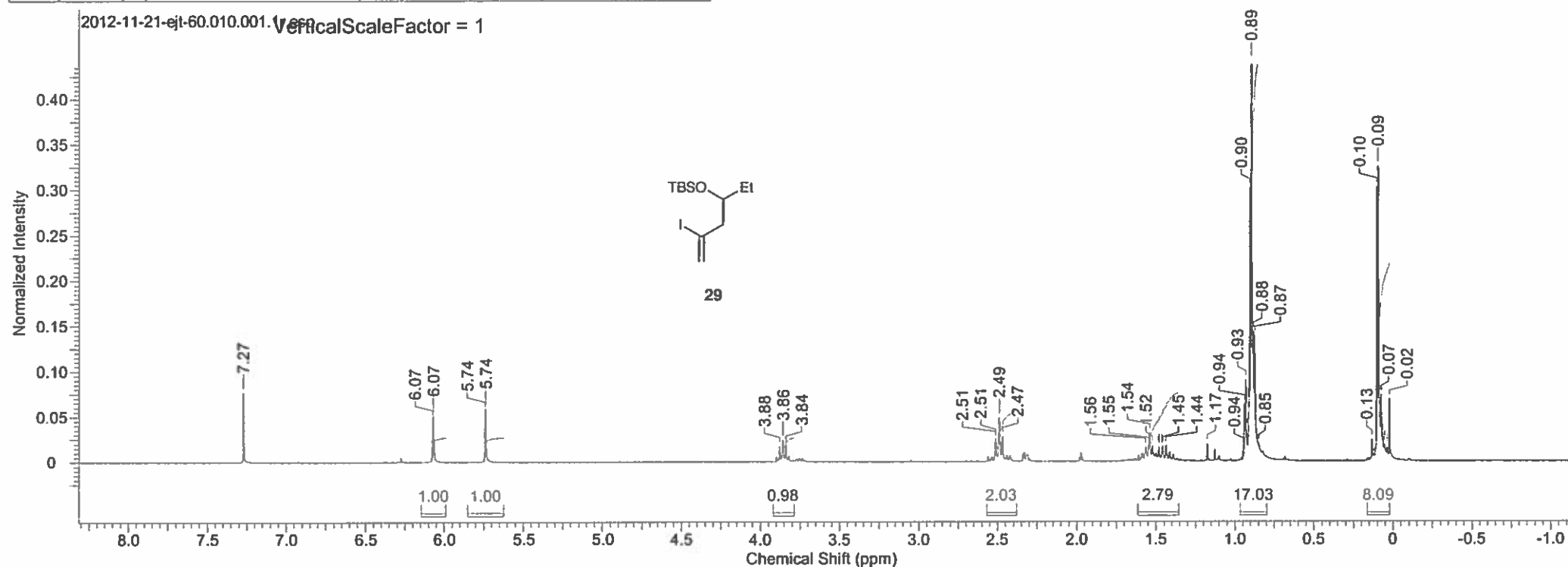
No.	(ppm)	Value	Absolute Value	Non-Negative Value
1	9398 .. 1.04	3.54017091	1.01245312e+8	3.54017091
2	5041 .. 1.60	2.49626207	7.13905760e+7	2.49626207
3	3854 .. 2.48	1.07680511	3.07955380e+7	1.07680511
4	5185 .. 2.63	1.09013748	3.11768320e+7	1.09013748
5	7612 .. 3.88	0.97696531	2.79402220e+7	0.97696531
6	3027 .. 5.94	1.00033140	2.86084700e+7	1.00033140
7	1198 .. 6.23	1.00761056	2.88166460e+7	1.00761056

Acquisition Time (sec)	1.0835	Comment	ejt cry iodide 10 mCARBONnight CDCl3 (e:\bruk400data\2012\Oct) ejt 10		Date	08 Oct 2012 19:35:44	
Date Stamp	08 Oct 2012 19:35:44	File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400data\2012\Oct\data\ejt\nmr\2012-10-08-ejt-10\12\data\1\1r				
Frequency (MHz)	100.61	Nucleus	13C	Number of Transients	800	Origin	AV400
Original Points Count	32768	Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	512.00	SW(cyclical) (Hz)	30241.94	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	11332.2295
Spectrum Type	STANDARD	Sweep Width (Hz)	30241.01	Temperature (degree C)	22.900		



No.	(ppm)	(Hz)	Height
1	9.87	993.3	0.1460
2	28.86	2903.7	0.1572
3	52.38	5270.1	0.1243
4	71.26	7169.4	0.1335
5	76.68	7714.9	1.0000
6	77.00	7747.2	0.9152
7	77.31	7778.6	0.9874
8	107.65	10830.6	0.0683
9	128.66	12945.0	0.1445

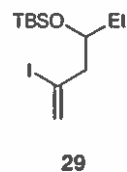
Acquisition Time (sec)	5.3084	Comment	ejt cry vinyl mPROTON CDCl3 (E:\bruk300data\2012\Nov) ejt 60		Date	21 Nov 2012 10:22:56	
Date Stamp	21 Nov 2012 10:22:56						
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk300data\2012\Nov\data\ejt\nmr\2012-11-21-ejt-60\10\data\11r				Frequency (MHz)	299.95	
Nucleus	1H	Number of Transients	16	Origin	DPX300	Original Points Count	32768
Owner	Administrator	Points Count	32768	Pulse Sequence	zg30	Receiver Gain	456.10
SW(cyclical) (Hz)	6172.84	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	1848.6169	Spectrum Type	STANDARD
Sweep Width (Hz)	6172.65	Temperature (degree C)	27.000				



No.	(ppm)	Value	Absolute Value	Non-Negative Value
1	0.223 .. 0.16	8.08682060	4.68993120e+8	8.08682060
2	7.955 .. 0.96	7.02706337	9.87480256e+8	17.02706337
3	3.579 .. 1.61	2.78549266	1.61543936e+8	2.78549266
4	3.810 .. 2.56	2.03447366	1.17988776e+8	2.03447366
5	7.869 .. 3.91	0.98051947	5.68649760e+7	0.98051947
6	5.223 .. 5.84	0.99646074	5.77894880e+7	0.99646074
7	9.894 .. 6.14	0.99959248	5.79711120e+7	0.99959248



EJT-PRM46 TBS vinyl iodide data  
mCARBONnight CDCl<sub>3</sub> {e:\bruk400data\2012\Nov} ejt 58

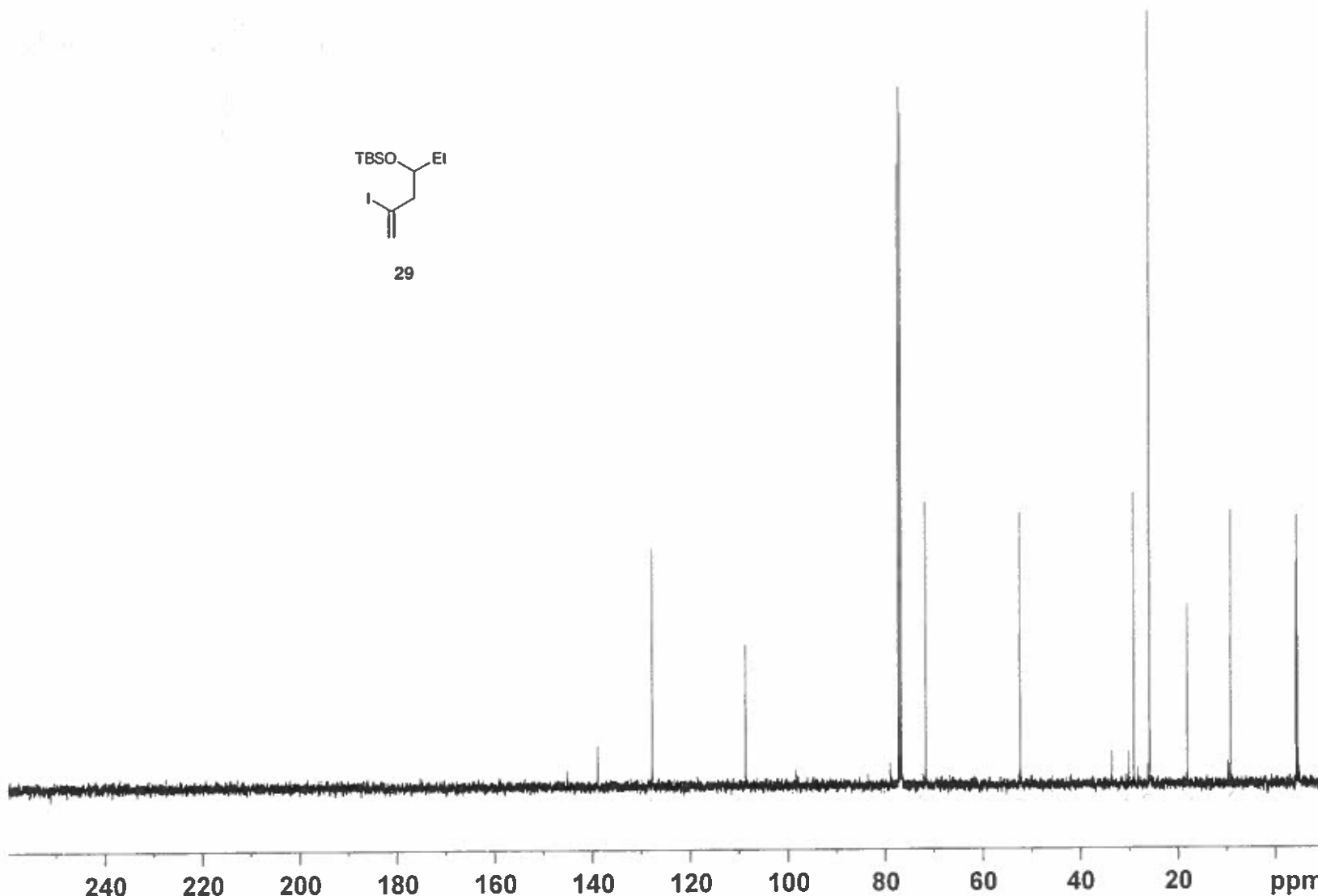


138.94  
127.76  
108.70  
79.01  
77.35  
77.03  
76.71  
71.75  
52.41  
33.67  
30.18  
29.12  
28.33  
26.30  
25.92  
25.81  
18.12  
9.73  
9.62  
9.23  
-4.19  
-4.37  
-4.63

NAME 2012-11-28-ejt-58  
EXPNO 10  
PROCNO 1  
Date 20121129  
Time 20.00  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl<sub>3</sub>  
NS 256  
DS 2  
SWH 30241.936 Hz  
FIDRES 0.461455 Hz  
AQ 1.0835786 sec  
RG 512  
DW 16.533 usec  
DE 7.83 usec  
TE 293.9 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 13C  
P1 8.00 usec  
PL1 0.00 dB  
PL1W 34.91522217 W  
SFO1 100.6241042 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 90.00 usec  
PL2 -3.60 dB  
PL12 15.31 dB  
PL13 18.00 dB  
PL2W 17.83863831 W  
PL12W 0.22927761 W  
PL13W 0.12341322 W  
SFO2 400.1316005 MHz  
SI 32768  
SF 100.6127690 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

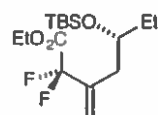


EJT-PRM48c f4-5 8mg full data  
mPROTONnight CDCl<sub>3</sub> /opt/bruk500data/2013/Jan ejt 31

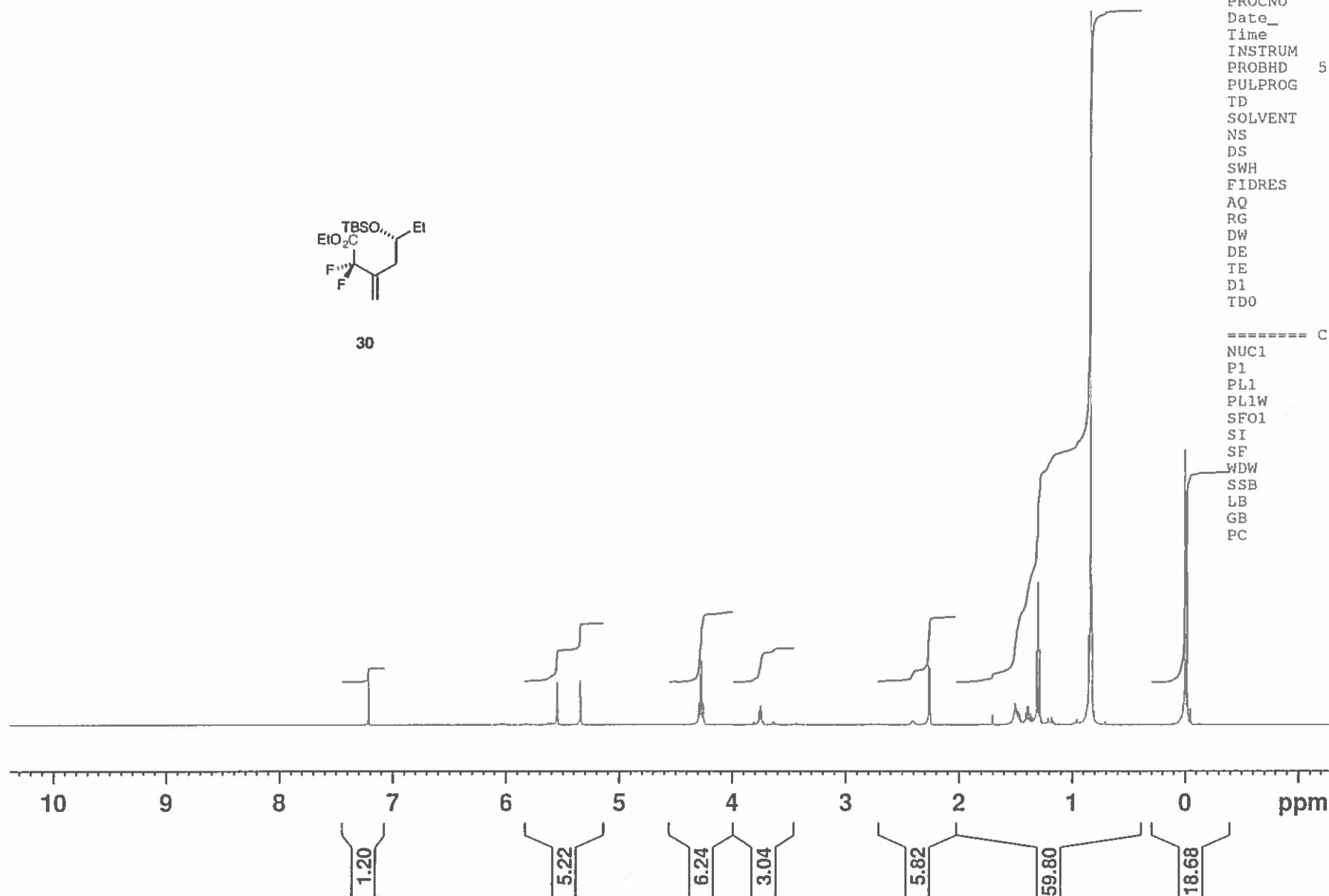


NAME 2013-01-10-ejt-31  
EXPNO 11  
PROCNO 1  
Date\_ 20130110  
Time 21.35  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl<sub>3</sub>  
NS 16  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 90.5  
DW 48.400 usec  
DE 13.00 usec  
TE 300.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -0.10 dB  
PL1W 26.21803665 W  
SFO1 500.1330885 MHz  
SI 32768  
SF 500.1300359 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



30



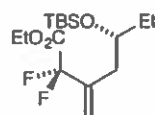
EJT-PRM48c f4-5 8mg full data  
mCARBONnight CDCl3 /opt/bruk500data/2013/Jan ejt 31



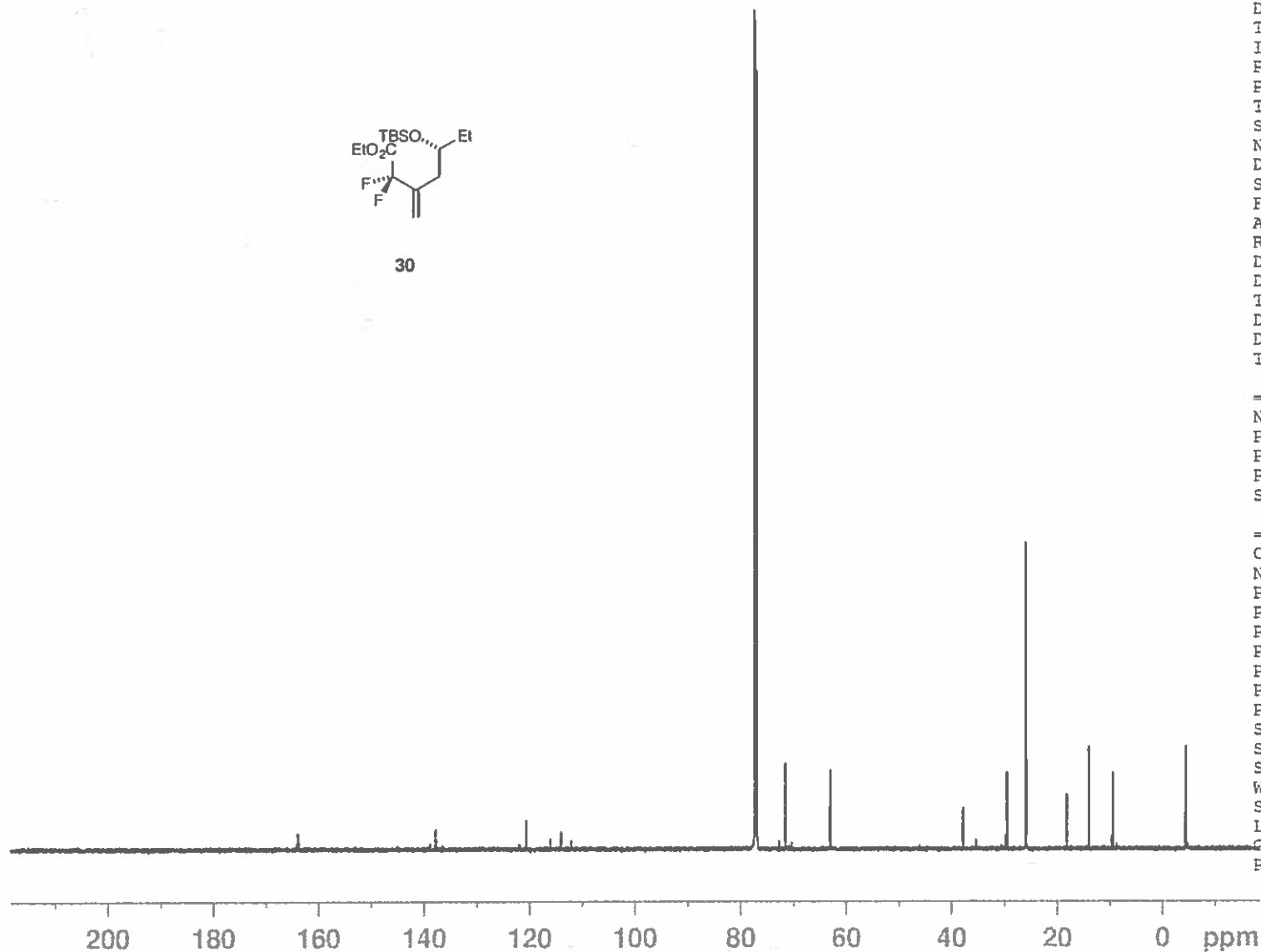
NAME 2013-01-10-ejt-31  
EXPNO 10  
PROCNO 1  
Date\_ 20130110  
Time 21.33  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 2000  
DS 2  
SWH 29761.904 Hz  
FIDRES 0.454131 Hz  
AQ 1.1010548 sec  
RG 512  
DW 16.800 usec  
DE 32.78 usec  
TE 293.8 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 13C  
P1 8.80 usec  
PL1 -1.00 dB  
PL1W 104.35516357 W  
SFO1 125.7703643 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 80.00 usec  
PL2 0.00 dB  
PL12 17.23 dB  
PL13 120.00 dB  
PL2W 25.62124252 W  
PL12W 0.48484197 W  
PL13W 0.00000000 W  
SFO2 500.1320005 MHz  
SI 32768  
SF 125.7577890 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



30

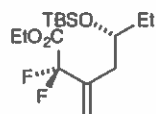


EJT-PRM48c f4-5 8mg  
m19F CDC13 /opt/bruk500data/2013/Jan ejt 29

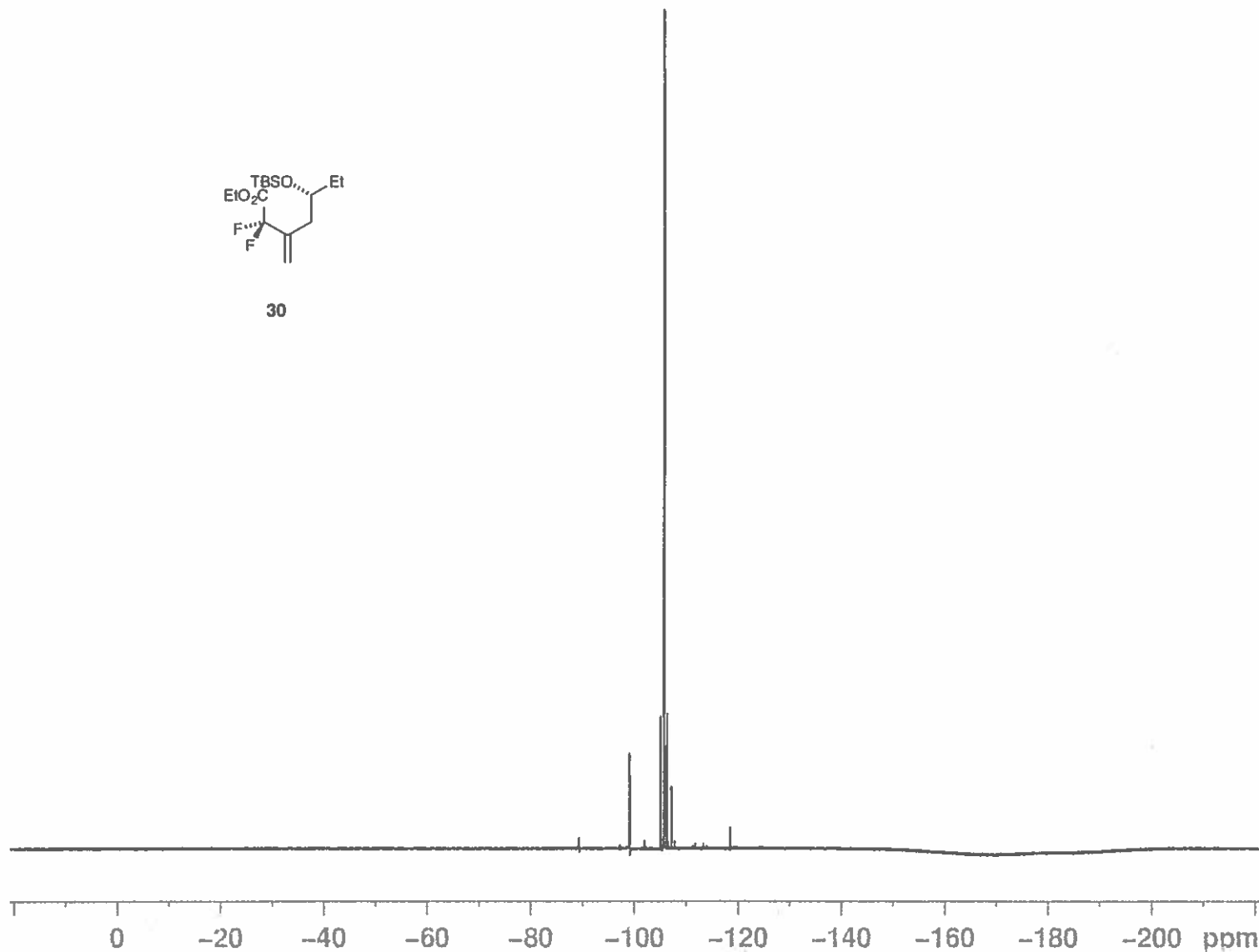


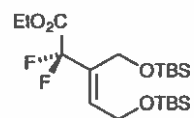
NAME 2013-01-10-ejt-29  
EXPNO 12  
PROCNO 1  
Date\_ 20130110  
Time 17.38  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zgflqn  
TD 131072  
SOLVENT CDC13  
NS 16  
DS 4  
SWH 113636.367 Hz  
FIDRES 0.866977 Hz  
AQ 0.5767668 sec  
RG 203  
DW 4.400 usec  
DE 6.50 usec  
TE 300.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 19F  
P1 17.50 usec  
PL1 -2.90 dB  
PL1W 48.97788239 W  
SFO1 470.5453180 MHz  
SI 65536  
SF 470.5923770 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



30



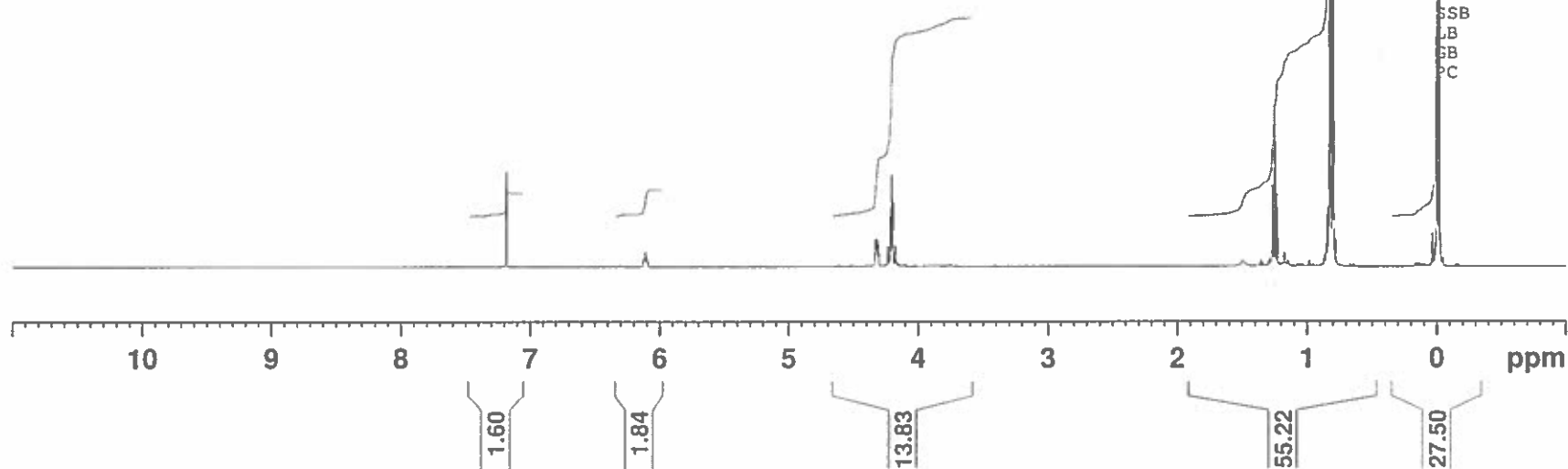


NAME	2013-05-02-ejt-40
EXPNO	11
PROCNO	1
Date_	20130503
Time	2.19
INSTRUM	AV400
PROBHD	5 mm PABBO BB-
PULPROG	zg30b
TD	65536
SOLVENT	CDC13
NS	16
DS	0
SWH	8264.463 Hz
FIDRES	0.126106 Hz
AQ	3.9649780 sec
RG	203
DW	60.500 usec
DE	9.40 usec
TE	300.0 K
D1	1.00000000 sec
TD0	1

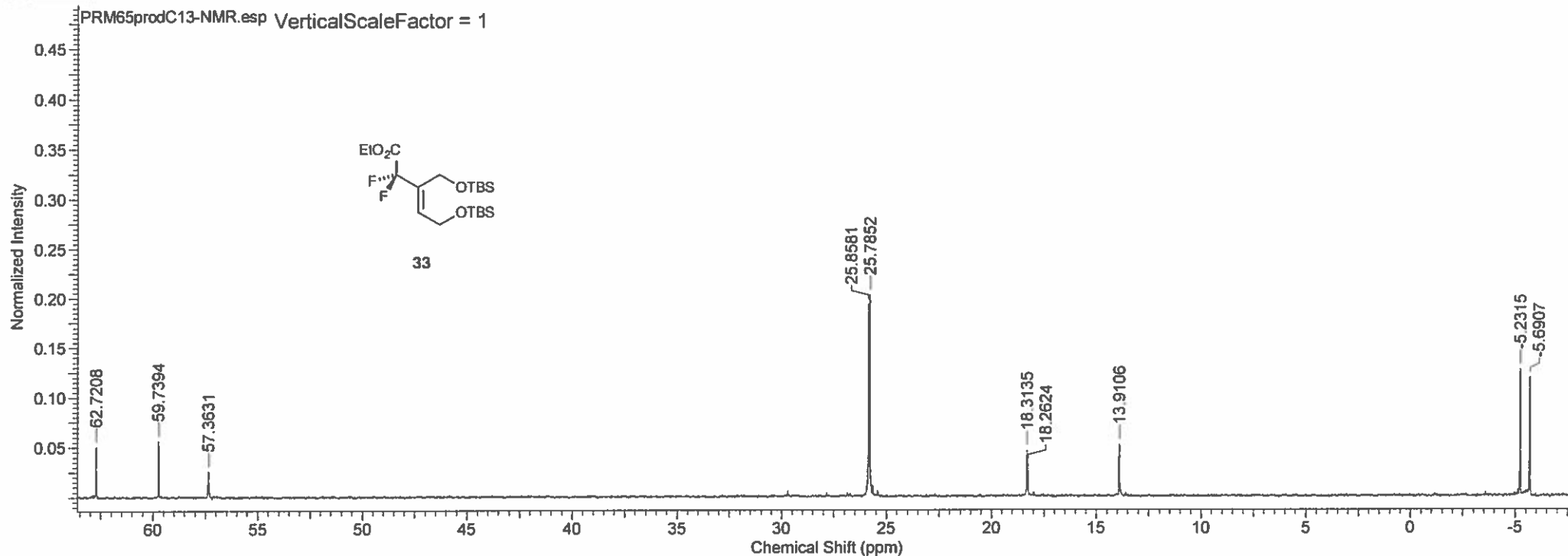
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===== CHANNEL f1 =====
FUC1                1H
PL1                 10.00 usec
PL1                 -3.60 dB
PL1W               17.83863831 W
F01                 400.1324710 MHz
SI                  32768
SF                  400.1300401 MHz
WDW                  EM
SSB                  0
LB                   0.30 Hz
GB                  0
PC                   1.00

```

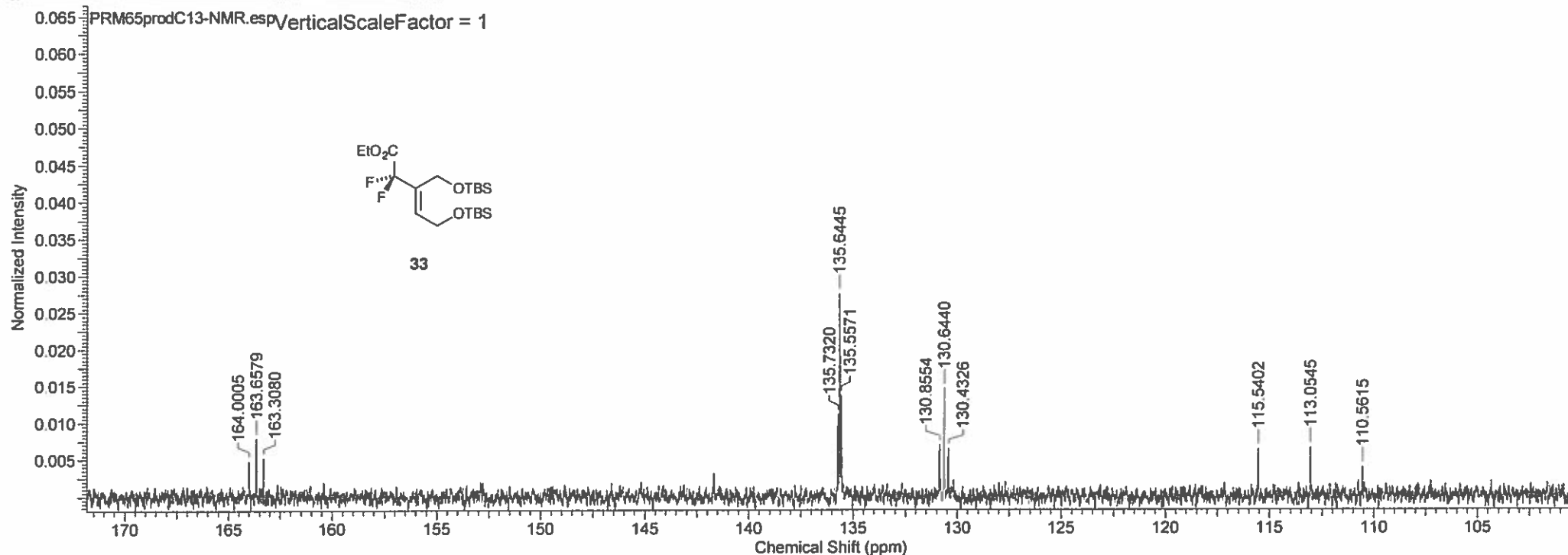


Acquisition Time (sec)	1.3631	Comment	P. Mears EJ-PRM 65 Prod data 0513-008 mCARBON CDCl3 {E:\bruk400service_data\2013\May} Administrator 24	
Date	10 May 2013 09:34:08	Date Stamp	10 May 2013 09:34:08	
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400SERVICE_DATA\2013\MAY\DATA\ADMINISTRATOR\NMR\2013-05-09-ADMINISTRATOR-24\12\PDATA\1\1R			
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients 10240
Origin	AV400_S	Original Points Count	32768	Owner Administrator
Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain 2050.00
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz) 10063.3350
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C) 25.100



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	-5.69	-572.7	0.1186	4	18.26	1837.9	0.0326	7	25.82	2598.6	0.0350	10	59.74	6012.1	0.0566
2	-5.23	-526.5	0.1268	5	18.31	1843.0	0.0457	8	25.86	2602.3	0.1934	11	62.72	6312.1	0.0509
3	13.91	1399.9	0.0515	6	25.79	2595.0	0.2026	9	57.36	5772.9	0.0262				

Acquisition Time (sec)	1.3631	Comment	P. Mears EJ-PRM 65 Prod data 0513-008 mCARBON CDCl3 (E:\bruk400service_data\2013\May) Administrator 24	
Date	10 May 2013 09:34:08	Date Stamp	10 May 2013 09:34:08	
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400SERVICE_DATA\2013MAY\DATA\ADMINISTRATOR\NMR\2013-05-09-ADMINISTRATOR-24\12\PDATA\111R			
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients 10240
Origin	AV400_S	Original Points Count	32768	Owner Administrator
Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain 2050.00
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz) 10063.3350
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C) 25.100



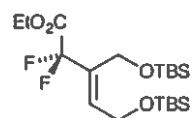
No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	-5.69	-572.7	0.1186	6	25.79	2595.0	0.2026	11	62.72	6312.1	0.0509	16	130.64	13147.7	0.0146
2	-5.23	-526.5	0.1268	7	25.82	2598.6	0.0350	12	110.56	11126.7	0.0039	17	130.86	13169.0	0.0069
3	13.91	1399.9	0.0515	8	25.86	2602.3	0.1934	13	113.05	11377.6	0.0066	18	135.56	13642.2	0.0137
4	18.26	1837.9	0.0326	9	57.36	5772.9	0.0262	14	115.54	11627.7	0.0063	19	135.64	13651.0	0.0274
5	18.31	1843.0	0.0457	10	59.74	6012.1	0.0566	15	130.43	13126.5	0.0064	20	135.73	13659.8	0.0111
												21	163.31	16435.0	0.0053
												22	163.66	16470.2	0.0079
												23	164.00	16504.7	0.0049

EJT-PRM65 1/s prod 10mg  
mF19 CDC13 {e:\bruk400data\2013\Feb} ejt 31

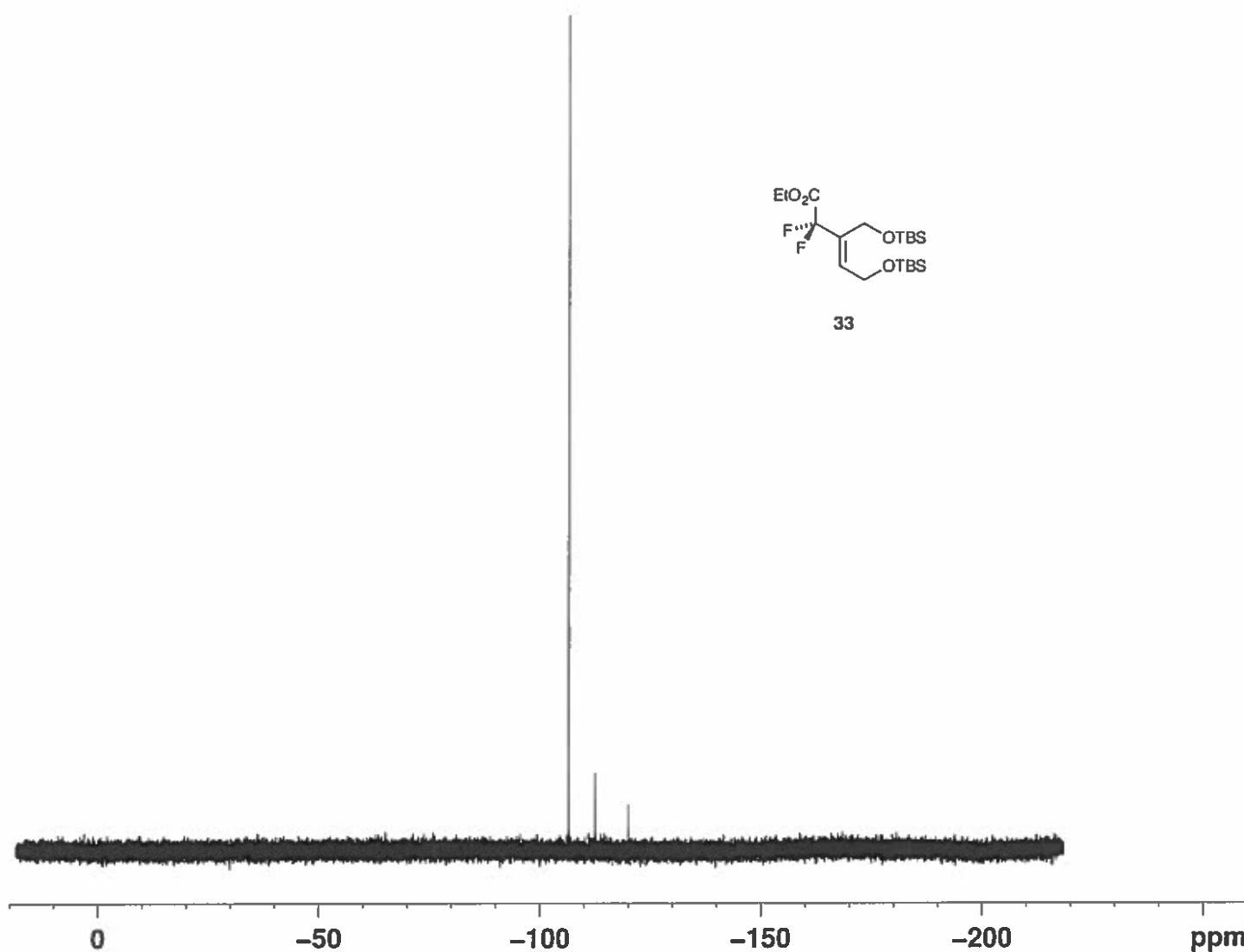


NAME 2013-02-14-ejt-31  
EXPNO 12  
PROCNO 1  
Date\_ 20130214  
Time 12.58  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg  
TD 131072  
SOLVENT CDC13  
NS 16  
DS 4  
SWH 89285.711 Hz  
FIDRES 0.681196 Hz  
AQ 0.7340532 sec  
RG 4100  
DW 5.600 usec  
DE 11.01 usec  
TE 292.9 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 19F  
P1 10.70 usec  
PL1 -5.00 dB  
PL1W 27.00716019 W  
SFO1 376.4607164 MHz  
SI 262144  
SF 376.4983660 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 2.00



33



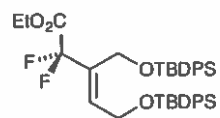


EJT-PRM58 f1-30 4mg  
mPROTON CDCl3 {e:\bruk400data\2013\Jan} ejt 19

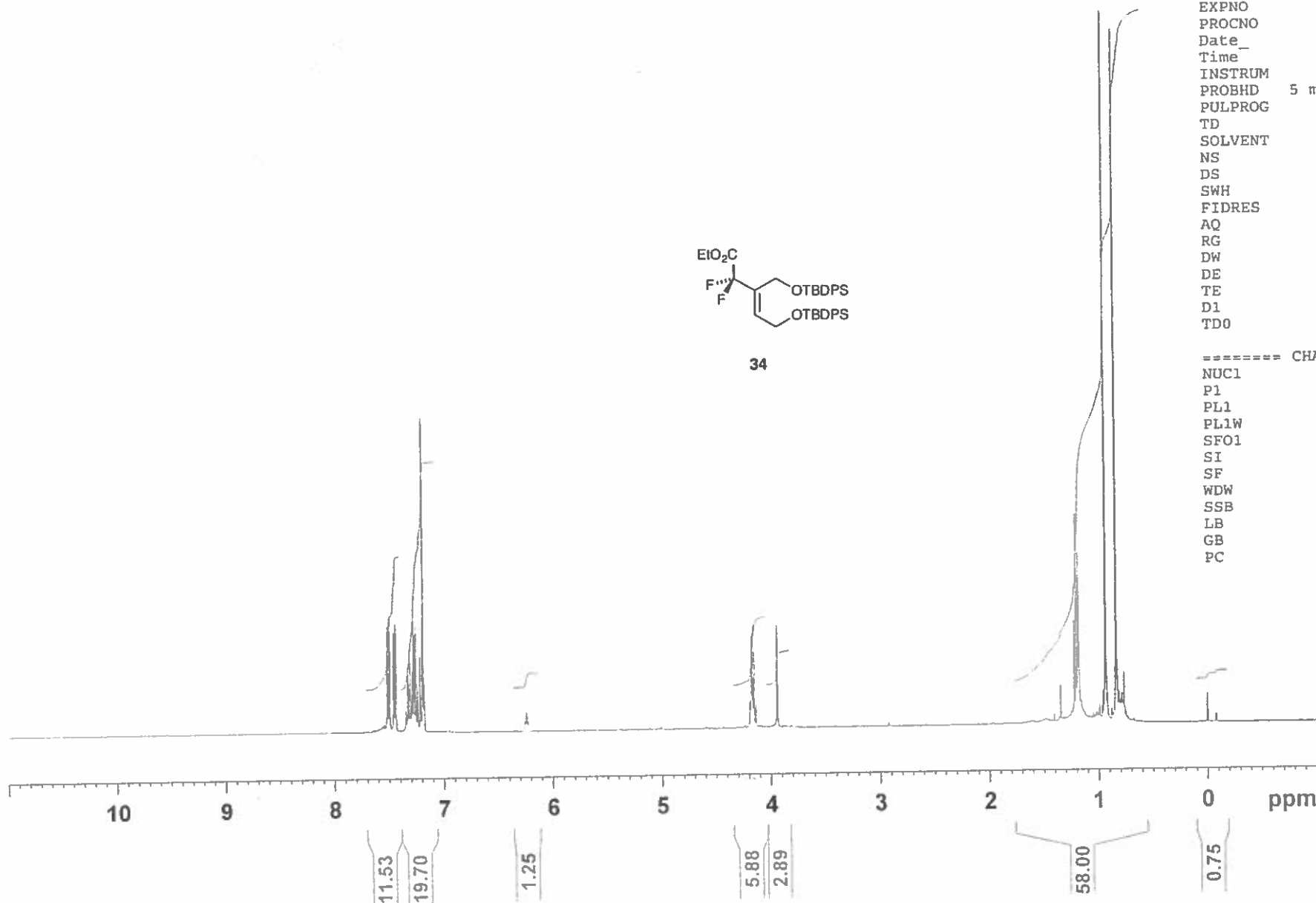


NAME 2013-01-24-ejt-19  
EXPNO 10  
PROCNO 1  
Date\_ 20130124  
Time\_ 16.25  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 228  
DW 60.500 usec  
DE 9.40 usec  
TE 292.9 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300385 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



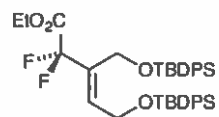
34



EJT-PRM58 f1-30 4mg  
mF19CPD CDCl3 {e:\bruk400data\2013\Jan} ejt 19



-103.94  
-104.94  
-105.74  
-105.85



34

NAME 2013-01-24-ejt-19  
EXPNO 12  
PROCNO 1  
Date 20130124  
Time 16.28  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zgig  
TD 131072  
SOLVENT CDCl3  
NS 16  
DS 4  
SWH 89285.711 Hz  
FIDRES 0.681196 Hz  
AQ 0.7340532 sec  
RG 4100  
DW 5.600 usec  
DE 7.51 usec  
TE 293.0 K  
D1 1.00000000 sec  
D11 0.03000000 sec  
TDO 1

===== CHANNEL f1 =====  
NUC1 19F  
P1 10.70 usec  
PL1 -5.00 dB  
PL1W 27.00716019 W  
SFO1 376.4607164 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 90.00 usec  
PL2 -3.60 dB  
PL12 15.31 dB  
PL2W 17.83863831 W  
PL12W 0.22927761 W  
SFO2 400.1316005 MHz  
SI 262144  
SF 376.4983660 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 2.00

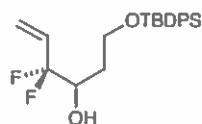
0 -20 -40 -60 -80 -100 -120 -140 -160 -180 -200 -220 ppm

EJT-PRM78 Prod data  
mPROTONnight CDCl<sub>3</sub> /opt/oldbruk500data.11vii11/2013/May ejt 23

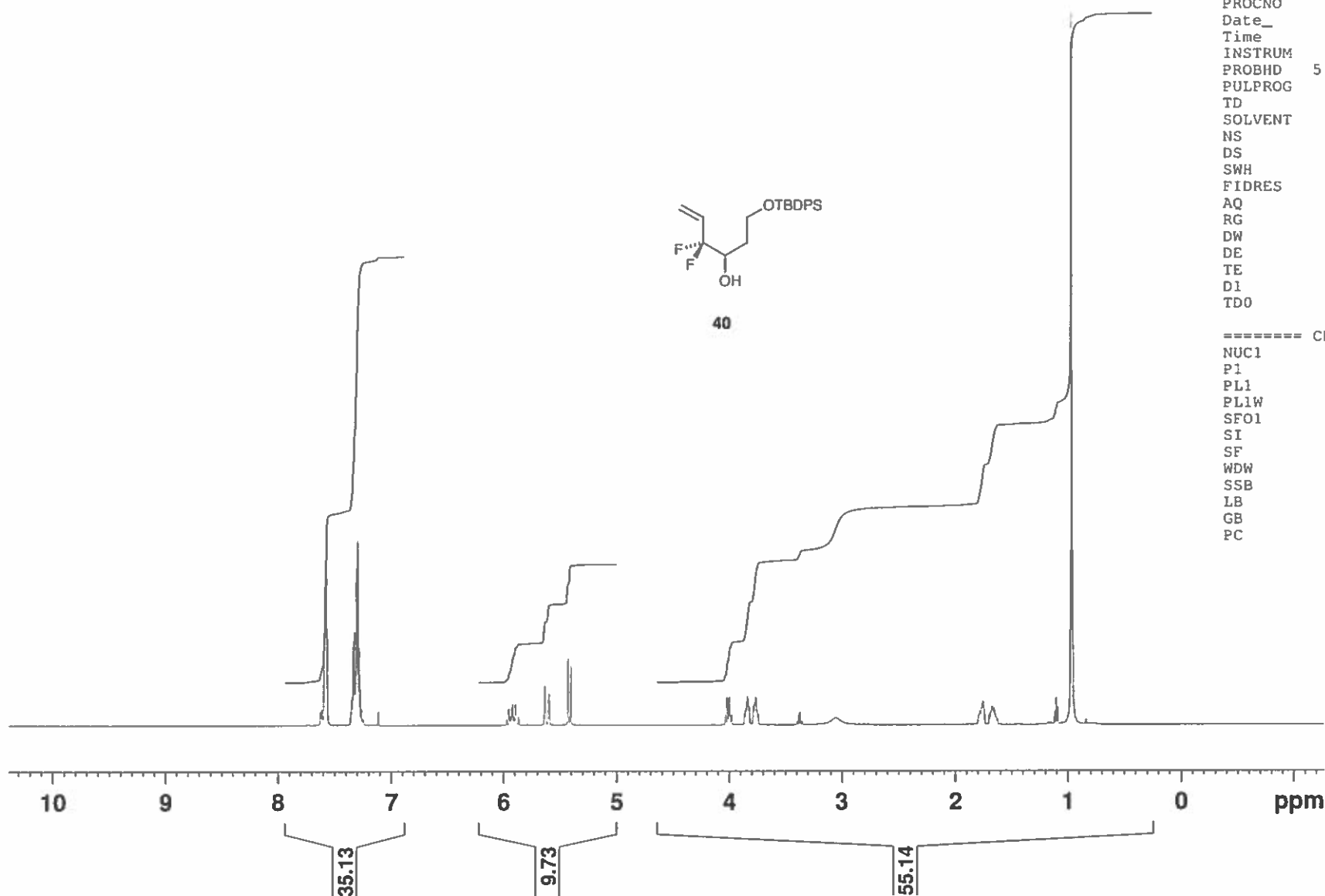


NAME 2013-05-06-ejt-23  
EXPNO 14  
PROCNO 1  
Date\_ 20130506  
Time 23.20  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl<sub>3</sub>  
NS 16  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 18  
DW 48.400 usec  
DE 13.00 usec  
TE 300.0 K  
D1 1.00000000 sec  
TD0 1

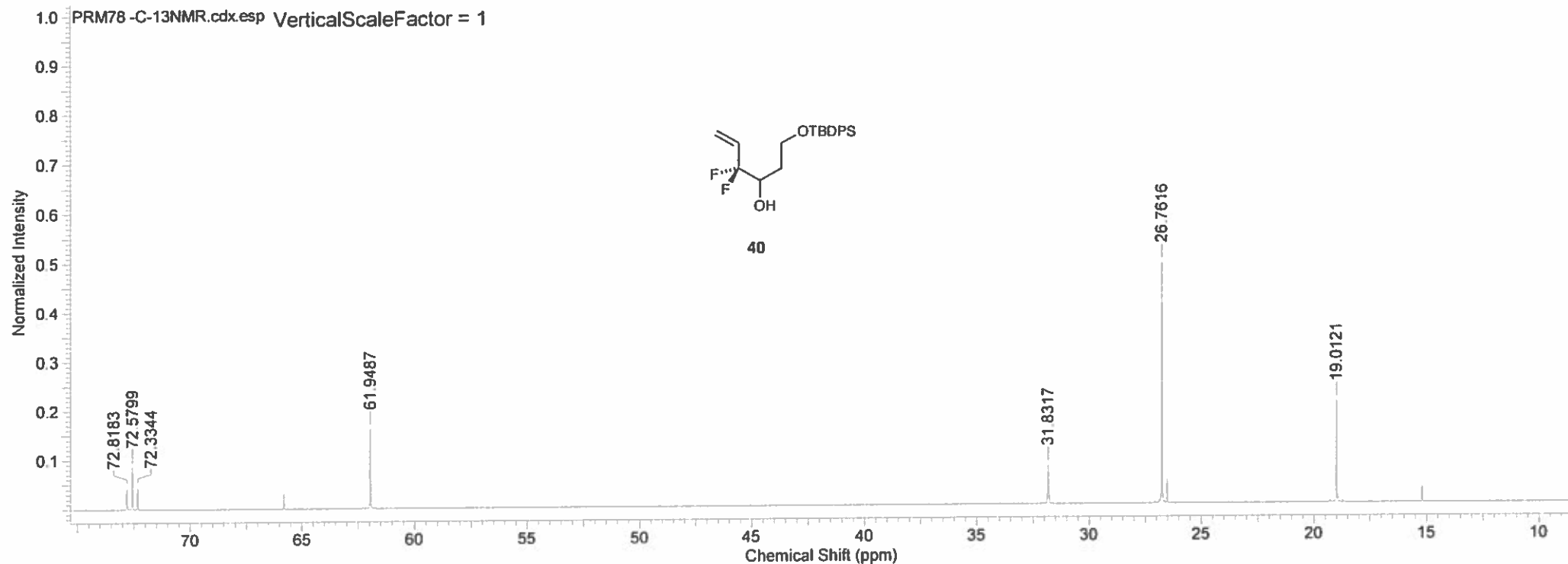
===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -0.10 dB  
PL1W 26.21803665 W  
SFO1 500.1330885 MHz  
SI 32768  
SF 500.1300840 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



40

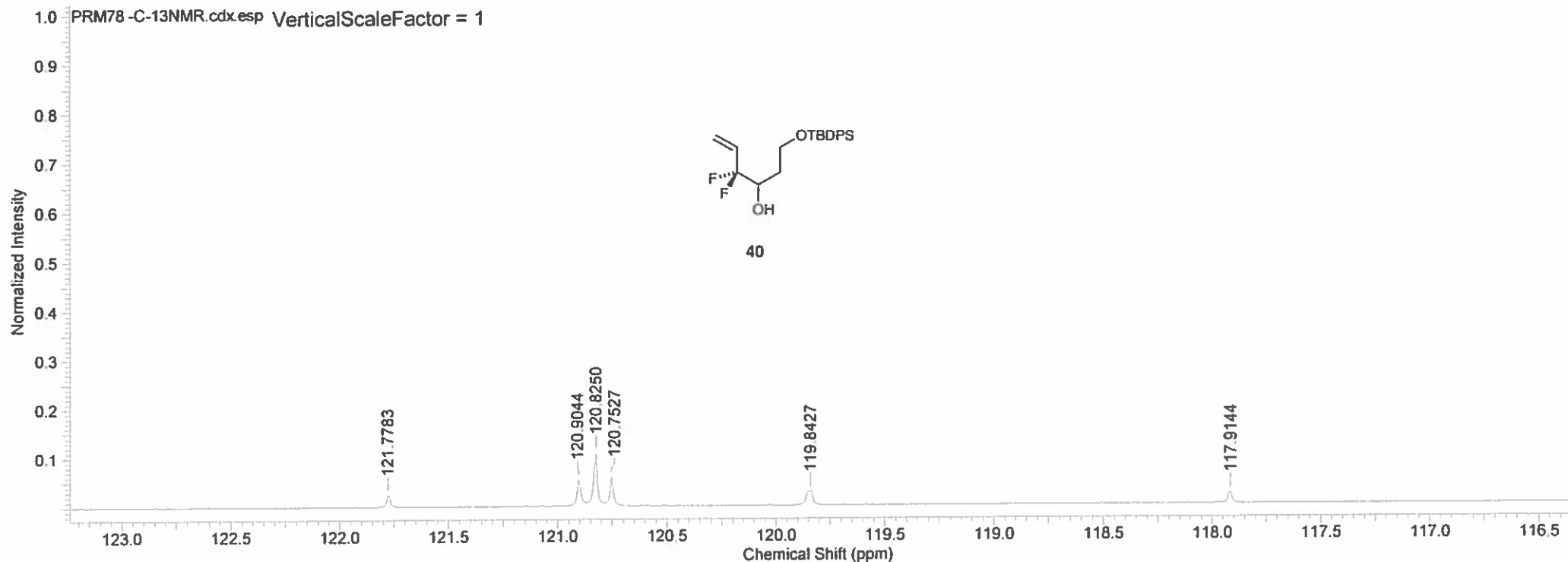


Acquisition Time (sec)	1.1010	Comment	EJT-PRM78 Prod data mCARBONnight CDCl3 /opt/oldbruk500data.11vi11/2013/May ejt 23				
Date	06 May 2013 22:20:00	Date Stamp	06 May 2013 22:20:00				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2013MAY\DATA\EJT\NMR\2013-05-06-EJT-23\10\PDAT\11\1R						
Frequency (MHz)	125.76	Nucleus	<sup>13</sup> C	Number of Transients	3000	Origin	spect
Original Points Count	32768	Owner	vnmr1	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	512.00	SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	12562.9922
Spectrum Type	STANDARD	Sweep Width (Hz)	29761.00	Temperature (degree C)	25.128		



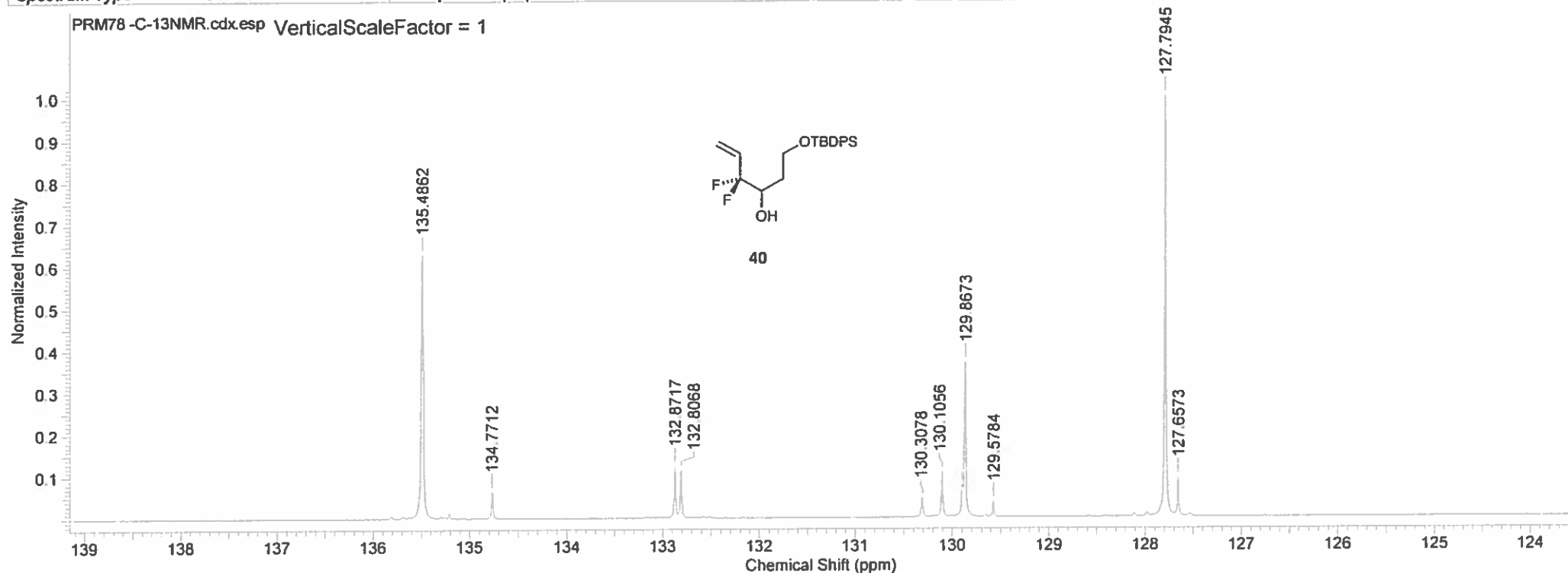
No.	(ppm)	(Hz)	Height
1	19.01	2390.9	0.2061
2	26.76	3365.5	0.4888
3	31.83	4003.1	0.0785
4	61.95	7790.5	0.1612
5	72.33	9096.6	0.0455
6	72.58	9127.5	0.0859
7	72.82	9157.5	0.0440

Acquisition Time (sec)	1.1010	Comment	EJT-PRM78 Prod data mCARBONnight CDCI3 /opt/oldbruk500data.11vii11/2013/May ejt 23				
Date	06 May 2013 22:20:00	Date Stamp	06 May 2013 22:20:00				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2013MAY\DATA\EJT\NMR\2013-05-06-EJT-23\10\PDATA\111R						
Frequency (MHz)	125.76	Nucleus	13C	Number of Transients	3000	Origin	spect
Original Points Count	32768	Owner	nmr1	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	512.00	SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	12562.9922
Spectrum Type	STANDARD	Sweep Width (Hz)	29761.00	Temperature (degree C)	25.128		



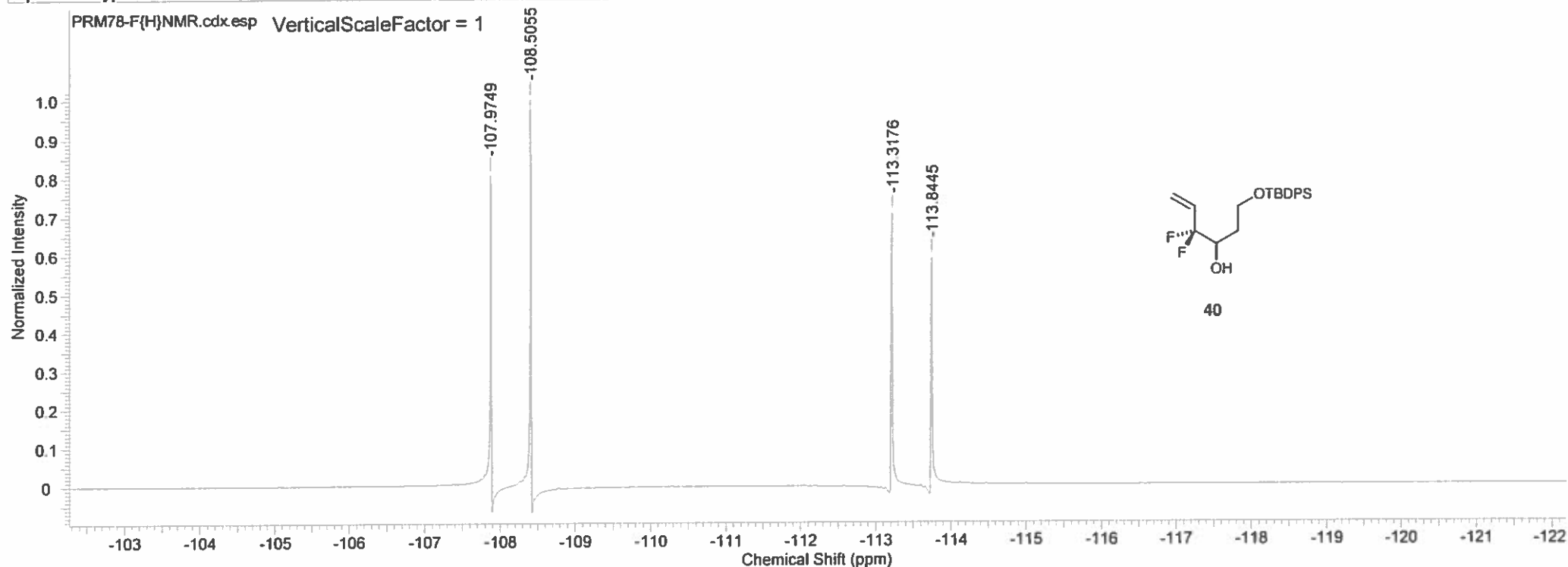
No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	19.01	2390.9	0.2061	6	72.58	9127.5	0.0859	11	120.82	15194.7	0.1070	16	129.58	16295.5	0.0367
2	26.76	3365.5	0.4888	7	72.82	9157.5	0.0440	12	120.90	15204.7	0.0546	17	129.87	16331.8	0.3682
3	31.83	4003.1	0.0785	8	117.91	14828.6	0.0221	13	121.78	15314.6	0.0234	18	129.90	16335.5	0.0755
4	61.95	7790.5	0.1612	9	119.84	15071.2	0.0281	14	127.66	16053.9	0.0923	19	130.11	16361.8	0.1076
5	72.33	9096.6	0.0455	10	120.75	15185.6	0.0599	15	127.79	16071.2	1.0000	20	130.31	16387.2	0.0446
												21	132.81	16701.5	0.1135
												22	132.87	16709.7	0.1225
												23	134.77	16948.5	0.0635
												24	135.49	17038.4	0.6292

Acquisition Time (sec)	1.1010	Comment	EJT-PRM78 Prod data mCARBONnight CDCI3 /opt/oldbruk500data.11vii1/2013/May ejt 23			
Date	06 May 2013 22:20:00	Date Stamp	06 May 2013 22:20:00			
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2013\MAY\DATA\EJT\NMR\2013-05-06-EJT-23\10\PDAT\11\1R					
Frequency (MHz)	125.76	Nucleus	13C	Number of Transients	3000	Origin spect
Original Points Count	32768	Owner	vnmr1	Points Count	32768	Pulse Sequence zgpg30
Receiver Gain	512.00	SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Spectrum Offset (Hz) 12562.9922
Spectrum Type	STANDARD	Sweep Width (Hz)	29761.00	Temperature (degree C)	25.128	



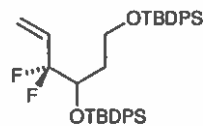
No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	19.01	2390.9	0.2061	6	72.58	9127.5	0.0859	11	120.82	15194.7	0.1070	16	129.58	16295.5	0.0367
2	26.76	3365.5	0.4888	7	72.82	9157.5	0.0440	12	120.90	15204.7	0.0546	17	129.87	16331.8	0.3682
3	31.83	4003.1	0.0785	8	117.91	14828.6	0.0221	13	121.78	15314.6	0.0234	18	129.90	16335.5	0.0755
4	61.95	7790.5	0.1612	9	119.84	15071.2	0.0281	14	127.66	16053.9	0.0923	19	130.11	16361.8	0.1076
5	72.33	9096.6	0.0455	10	120.75	15185.6	0.0599	15	127.79	16071.2	1.0000	20	130.31	16387.2	0.0446
												21	132.81	16701.5	0.1135
												22	132.87	16709.7	0.1225
												23	134.77	16948.5	0.0635
												24	135.49	17038.4	0.6292

Acquisition Time (sec)	0.5767	Comment	EJT-PRM78 Prod data m19FCPD CDCI3 /opt/oldbruk500data.11vii11/2013/May ejt 23				
Date	06 May 2013 22:24:16	Date Stamp	06 May 2013 22:24:16				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2013\MAY\DATA\EJT\NMR\2013-05-06-EJT-23\12\PDATA\111R						
Frequency (MHz)	470.59	Nucleus	19F	Number of Transients	16	Origin	spect
Original Points Count	65536	Owner	vnmr1	Points Count	65536	Pulse Sequence	zgfhgqn
Receiver Gain	287.00	SW(cyclical) (Hz)	113636.37	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-47059.0234
Spectrum Type	STANDARD	Sweep Width (Hz)	113634.63	Temperature (degree C)	27.000		



No.	(ppm)	(Hz)	Height
1	-113.84	-53574.4	0.5903
2	-113.32	-53326.4	0.7057
3	-108.51	-51061.9	1.0000
4	-107.97	-50812.2	0.8064

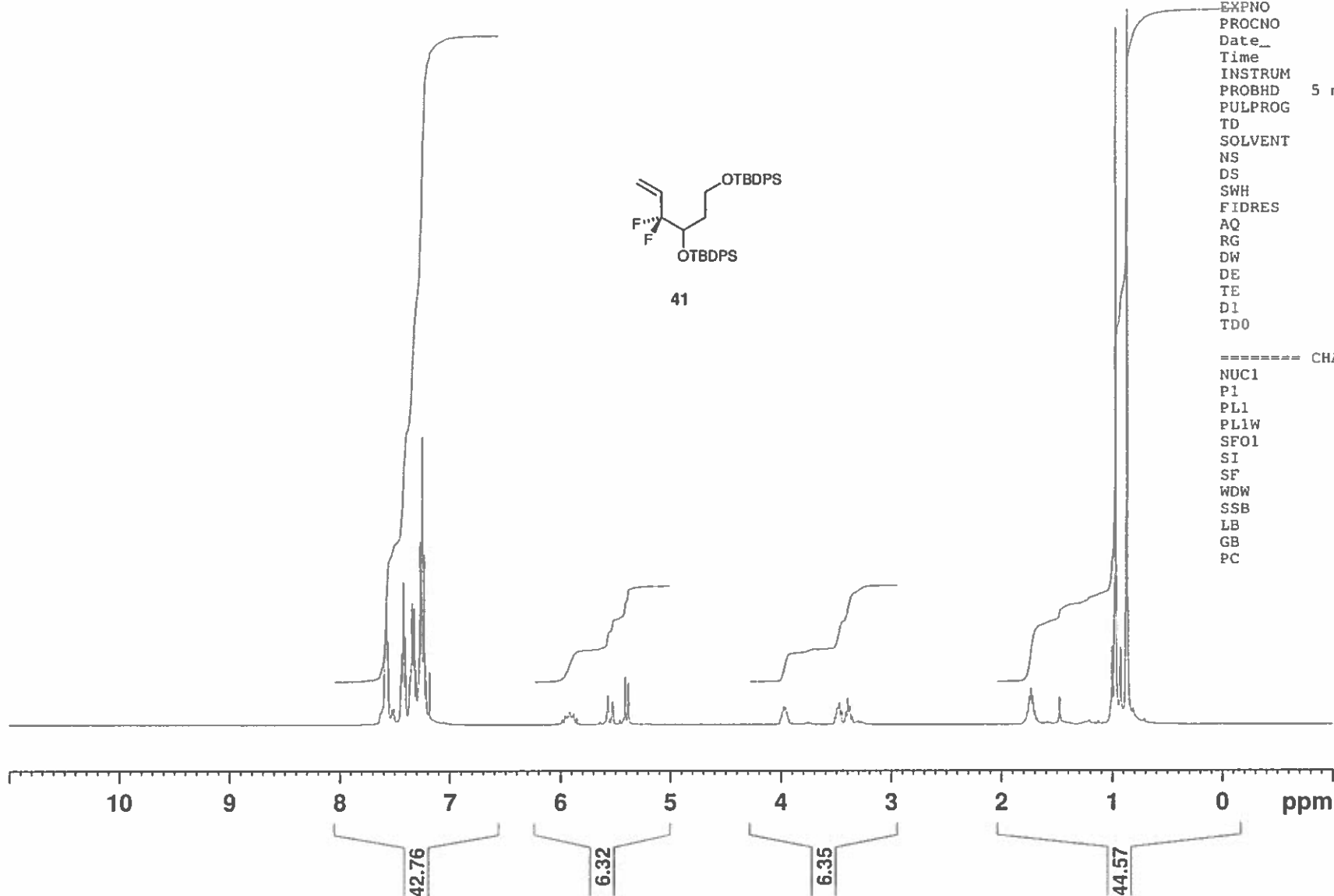
EJT-PRM77/79 Prod data  
mPROTONnight CDCl3 {e:\bruk400data\2013\Apr} ejt 49



41

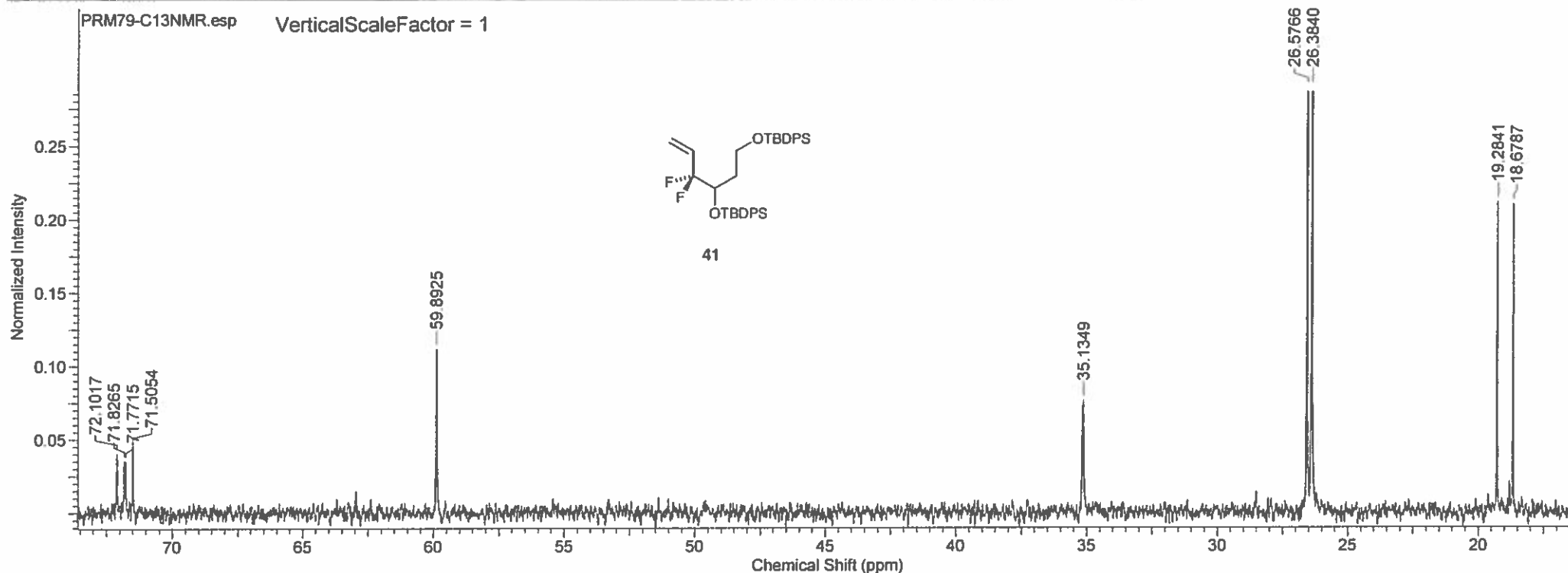
NAME 2013-04-25-ejt-49  
EXPNO 12  
PROCNO 1  
Date\_ 20130426  
Time 0.03  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 90.5  
DW 60.500 usec  
DE 9.40 usec  
TE 291.9 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SF01 400.1324710 MHz  
SI 32768  
SF 400.1300413 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



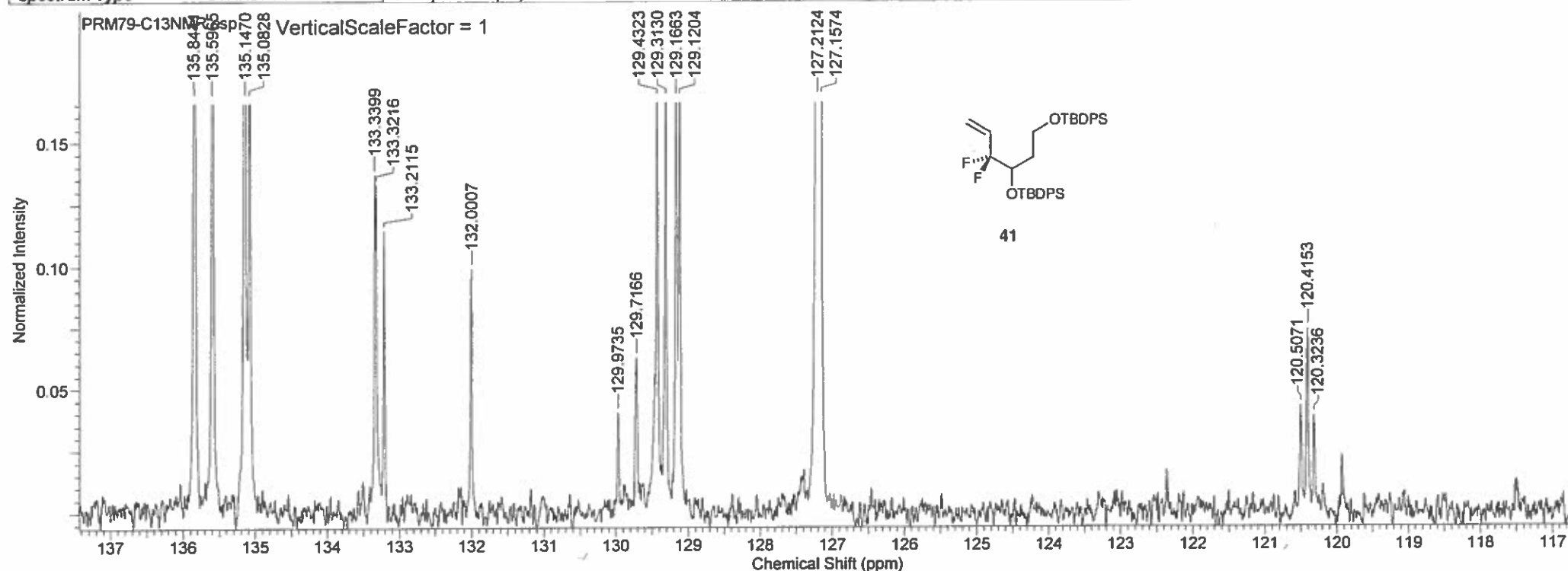


Acquisition Time (sec)	1.0835	Comment	EJT-PRM77/79 Prod data mCARBONnight CDCl3 (e:\bruk400data\2013\Apr) ejt 49		
Date	25 Apr 2013 23:47:28	Date Stamp	25 Apr 2013 23:47:28		
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400DATA\2013\APR\DATA\EJT\NMR\2013-04-25-EJT-49\10\PDATA\111R				
Frequency (MHz)	100.61	Nucleus	13C	Number of Transients	600
Original Points Count	32768	Owner	Administrator	Points Count	32768
Receiver Gain	512.00	SW(cyclical) (Hz)	30241.94	Solvent	CHLOROFORM-d
Spectrum Type	STANDARD	Sweep Width (Hz)	30241.01	Temperature (degree C)	19.400
				Origin	AV400
				Pulse Sequence	zgpg30
				Spectrum Offset (Hz)	11297.1592



No.	(ppm)	(Hz)	Height
1	18.68	1879.3	0.2102
2	19.28	1940.2	0.2114
3	26.38	2654.6	0.5291
4	26.58	2673.9	0.5033
5	35.13	3535.0	0.0761
6	59.89	6026.0	0.1114
7	71.51	7194.4	0.0453
8	71.77	7221.1	0.0348
9	71.83	7226.7	0.0355
10	72.10	7254.3	0.0405

Acquisition Time (sec)	1.0835	Comment	EJT-PRM77/79 Prod data mCARBONnight CDCl3 (e:\bruk400data\2013\Apr) ejt 49		
Date	25 Apr 2013 23:47:28	Date Stamp	25 Apr 2013 23:47:28		
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400DATA\2013\APR\DATA\EJT\NMR\2013-04-25-EJT-49\10\PDAT\111R				
Frequency (MHz)	100.61	Nucleus	13C	Number of Transients	600
Original Points Count	32768	Owner	Administrator	Points Count	32768
Receiver Gain	512.00	SW(cyclical) (Hz)	30241.94	Solvent	CHLOROFORM-d
Spectrum Type	STANDARD	Sweep Width (Hz)	30241.01	Temperature (degree C)	19.400
				Origin	AV400
				Pulse Sequence	zgpg30
				Spectrum Offset (Hz)	11297.1592

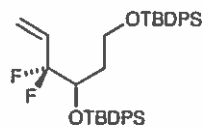


No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	18.68	1879.3	0.2102	7	71.51	7194.4	0.0453	13	120.51	12124.5	0.0424	19	129.43	13022.5	0.1720
2	19.28	1940.2	0.2114	8	71.77	7221.1	0.0348	14	127.16	12793.7	0.4051	20	129.72	13051.2	0.0625
3	26.38	2654.6	0.5291	9	71.83	7226.7	0.0355	15	127.21	12799.2	0.7568	21	129.97	13077.0	0.0402
4	26.58	2673.9	0.5033	10	72.10	7254.3	0.0405	16	129.12	12991.2	0.1982	22	132.00	13281.0	0.0988
5	35.13	3535.0	0.0761	11	120.32	12106.1	0.0384	17	129.17	12995.8	0.2313	23	133.21	13402.8	0.1141
6	59.89	6026.0	0.1114	12	120.42	12115.3	0.0735	18	129.31	13010.5	0.1777	24	133.32	13413.9	0.1326
												25	133.34	13415.7	0.1369
												26	135.08	13591.1	0.4275
												27	135.15	13597.5	0.4308
												28	135.60	13642.7	0.3973
												29	135.84	13667.7	0.3377

EJT-PRM77 f5-11 86mg  
mF19CPD CDCl3 {e:\bruk400data\2013\Apr} ejt 56



-101.45  
-102.10  
-103.37  
-104.03  
-109.22  
-109.26  
-109.88  
-109.91

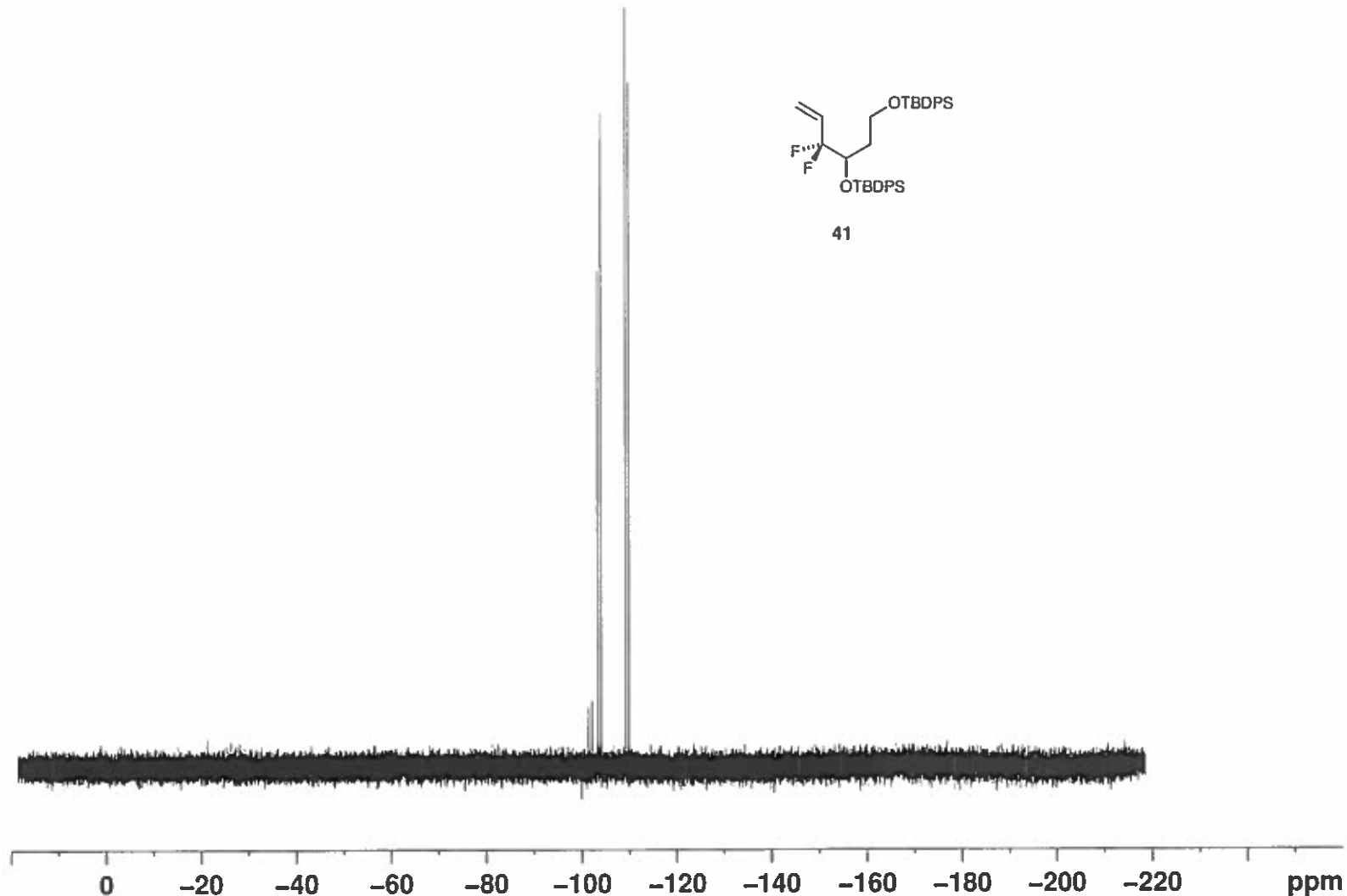


41

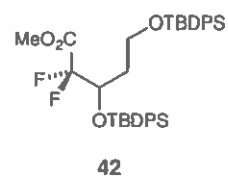
NAME 2013-04-24-ejt-56  
EXPNO 11  
PROCNO 1  
Date\_ 20130424  
Time 18.18  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zgig  
TD 131072  
SOLVENT CDCl3  
NS 16  
DS 4  
SWH 89285.711 Hz  
FIDRES 0.681196 Hz  
AQ 0.7340532 sec  
RG 4100  
DN 5.600 usec  
DE 7.51 usec  
TE 293.3 K  
D1 1.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 19F  
P1 10.70 usec  
PL1 -5.00 dB  
PL1W 27.00716019 W  
SFO1 376.4607164 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 90.00 usec  
PL2 -3.60 dB  
PL12 15.31 dB  
PL2W 17.83863831 W  
PL12W 0.22927761 W  
SFO2 400.1316005 MHz  
SI 262144  
SF 376.4983660 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 2.00

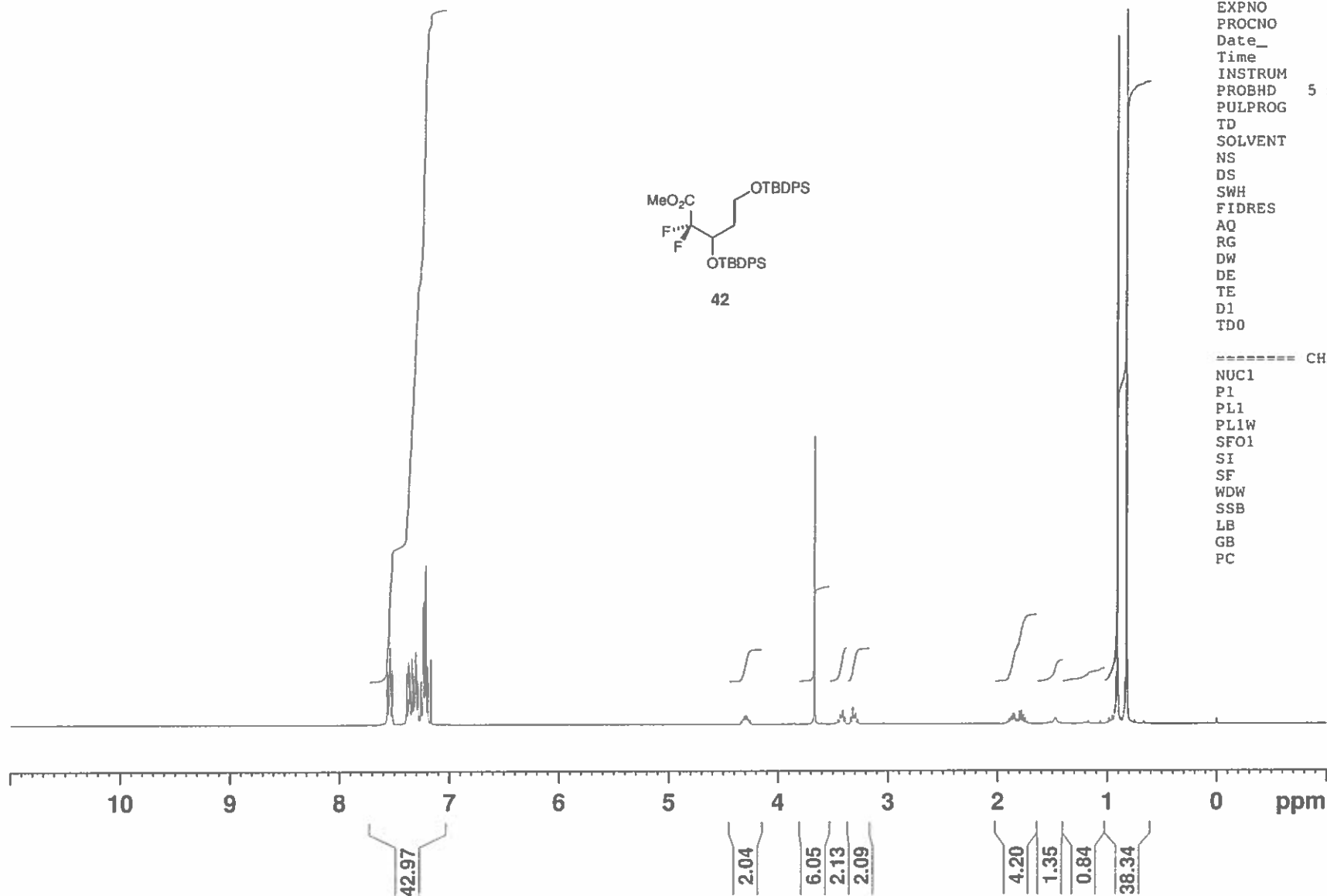


EJT-PRM89 f10-24 20mg  
mPROTON CDCl3 {e:\bruk400data\2013\May} ejt 11

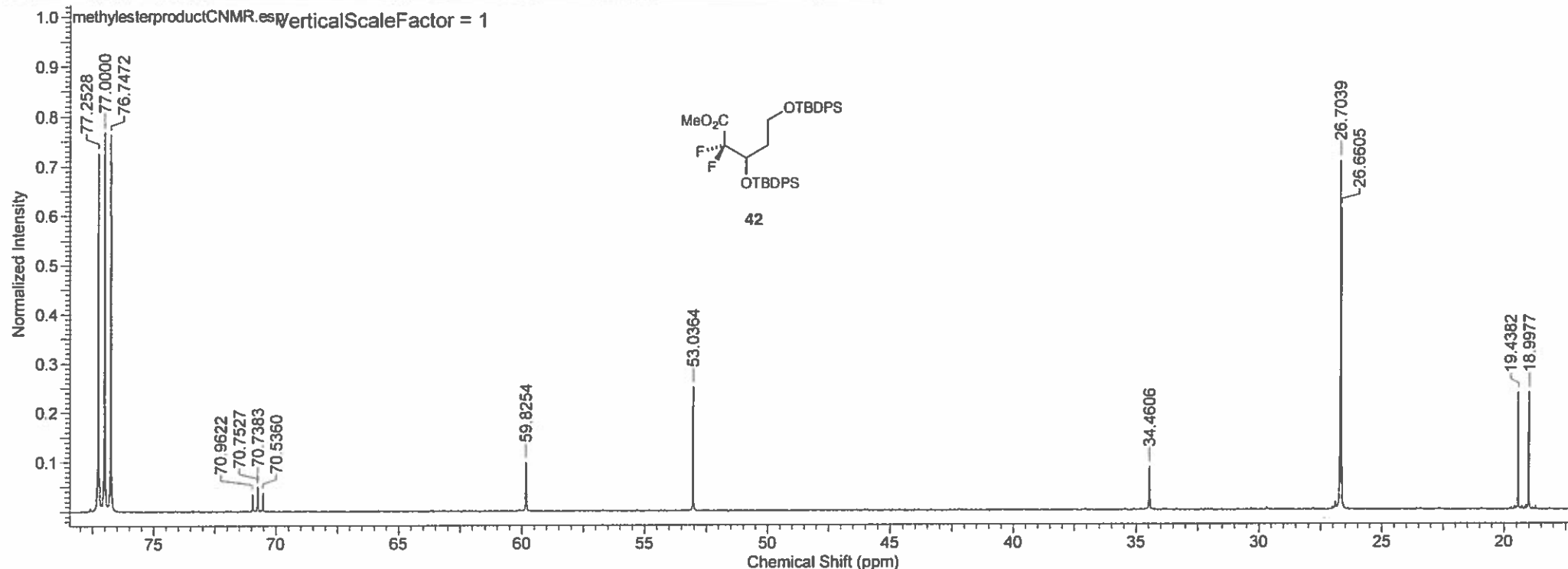


NAME 2013-05-29-ejt-11  
EXPNO 10  
PROCNO 1  
Date\_ 20130529  
Time 12.38  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 144  
DW 60.500 usec  
DE 9.40 usec  
TE 294.4 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300464 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

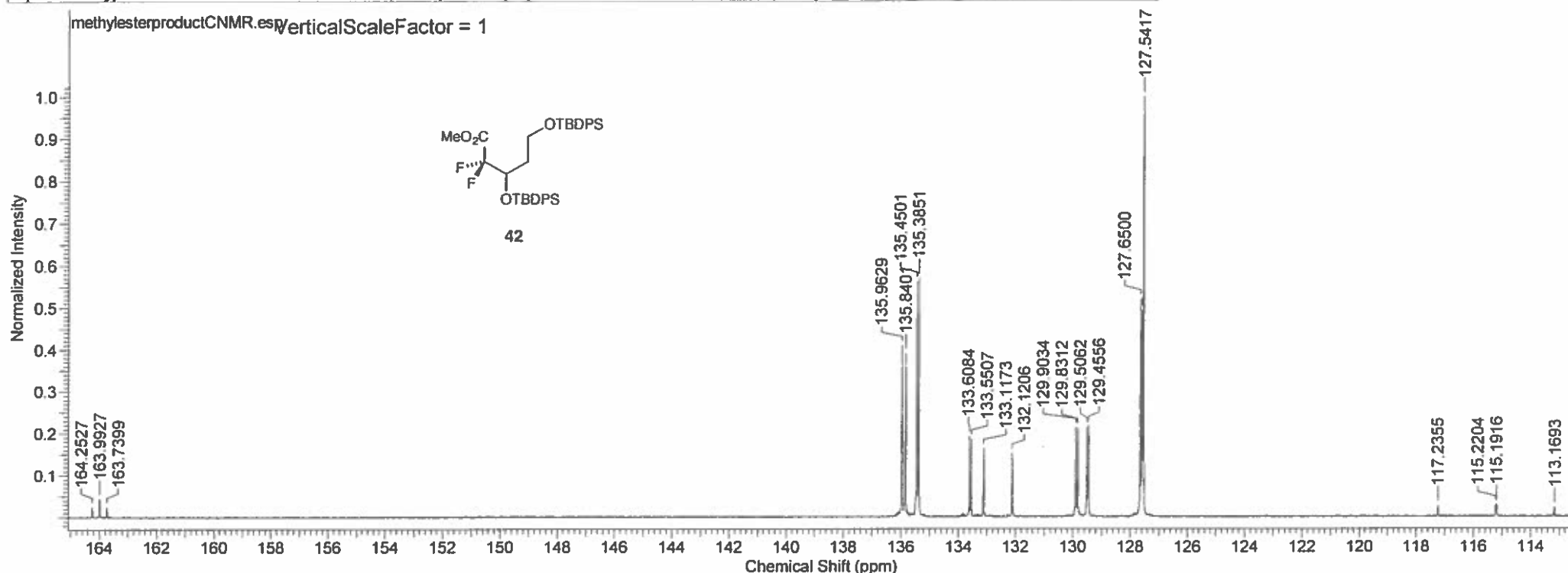


Acquisition Time (sec)	1.1010	Comment	EJT-PRM80 methyl ester mCARBONnight CDCl3 /opt/oldbruk500data.11vii11/2013/Jun ejt 26		
Date	07 Jun 2013 03:50:40	Date Stamp	07 Jun 2013 03:50:40		
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2013JUN\DATA\EJTNMR\2013-06-06-EJT-26\11\DATA\11\1R				
Frequency (MHz)	125.76	Nucleus	13C	Number of Transients	3072
Original Points Count	32768	Owner	vnmr1	Points Count	32768
Receiver Gain	512.00	SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d
Spectrum Type	STANDARD	Sweep Width (Hz)	29761.00	Temperature (degree C)	25.128
				Origin	spect
				Pulse Sequence	zgpg30
				Spectrum Offset (Hz)	12569.3496



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	19.00	2389.1	0.2368	4	26.70	3358.2	0.7079	7	59.83	7523.5	0.0992	10	70.75	8897.7	0.0487
2	19.44	2444.5	0.2365	5	34.46	4333.7	0.0876	8	70.54	8870.5	0.0373	11	70.96	8924.0	0.0351
3	26.66	3352.8	0.6122	6	53.04	6669.7	0.2506	9	70.74	8895.9	0.0510	12	76.75	9651.6	0.7640
												13	77.00	9683.3	0.7680
												14	77.25	9715.1	0.7269

Acquisition Time (sec)	1.1010	Comment	EJT-PRM80 methyl ester mCARBONnight CDCI3 /opt/oldbruk500data.11vii11/2013/Jun ejt 26				
Date	07 Jun 2013 03:50:40	Date Stamp	07 Jun 2013 03:50:40				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2013JUN\DATA\EJT\NMR\2013-06-06-EJT-26\11\PDATA\111R						
Frequency (MHz)	125.76	Nucleus	13C	Number of Transients	3072	Origin	spect
Original Points Count	32768	Owner	vnmr1	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	512.00	SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	12569.3496
Spectrum Type	STANDARD	Sweep Width (Hz)	29761.00	Temperature (degree C)	25.128		



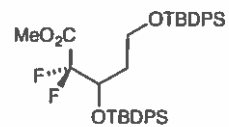
No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	19.00	2389.1	0.2368	9	70.74	8895.9	0.0510	17	115.22	14489.9	0.0265	25	129.90	16336.4	0.2136
2	19.44	2444.5	0.2365	10	70.75	8897.7	0.0487	18	117.24	14743.3	0.0254	26	132.12	16615.2	0.1516
3	26.66	3352.8	0.6122	11	70.96	8924.0	0.0351	19	127.54	16039.4	1.0000	27	133.12	16740.5	0.1625
4	26.70	3358.2	0.7079	12	76.75	9651.6	0.7640	20	127.59	16045.7	0.4926	28	133.55	16795.0	0.1850
5	34.46	4333.7	0.0876	13	77.00	9683.3	0.7680	21	127.65	16053.0	0.5199	29	133.61	16802.3	0.1924
6	53.04	6669.7	0.2506	14	77.25	9715.1	0.7269	22	129.46	16280.1	0.2176	30	135.39	17025.7	0.5682
7	59.83	7523.5	0.0992	15	113.17	14231.9	0.0225	23	129.51	16286.4	0.2148	31	135.45	17033.9	0.5619
8	70.54	8870.5	0.0373	16	115.19	14486.2	0.0292	24	129.83	16327.3	0.2114	32	135.84	17083.0	0.3899

**EJT-PRM89 f10-24 20mg**

mF19CPD CDCl3 {e:\bruk400data\2013\May} ejt 11



$\begin{array}{r} \diagup \\ \diagdown \end{array} \begin{array}{r} -111.40 \\ -112.09 \\ -117.61 \\ -118.29 \end{array}$



42

```

NAME          2013-05-29-ejt-11
EXPNO         11
PROCNO        1
Date_         20130529
Time          12.39
INSTRUM       AV400
PROBHD        5 mm PABBO BB-
PULPROG       zg1g
TD            131072
SOLVENT       CDC13
NS            16
DS            4
SWH            89285.711 Hz
FIDRES        0.681196 Hz
AQ            0.7340532 sec
RG            4100
DW            5.600 usec
DE            7.51 usec
TE            294.6 K
D1            1.00000000 sec
D11           0.03000000 sec
TD0           1

```

```
===== CHANNEL f1 =====
NUC1                19F
P1                  10.70 usec
PL1                 -5.00 dB
PL1W                27.00716019 W
SFO1                376.4607164 MHz
```

```

***** CHANIEL f2 *****
CPDPRG2          waltz16
NUC2              1H
PCPD2            90.00 usec
PL2              -3.60 dB
PL12             15.31 dB
PL2W             17.83863831 W
PL12W            0.22927761 W
SFO2             400.1316005 MHz
SI               262144
SF               376.4983660 MHz
WDW              EM
SSB              0
LB               0.30 Hz
GB               0
PC               2.00

```

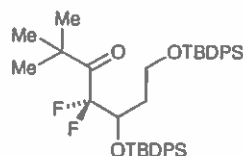


EJT-PRM92 prod fracs 40mg  
mPROTON CDCl3 {e:\bruk400data\2013\Jun} ejt 14

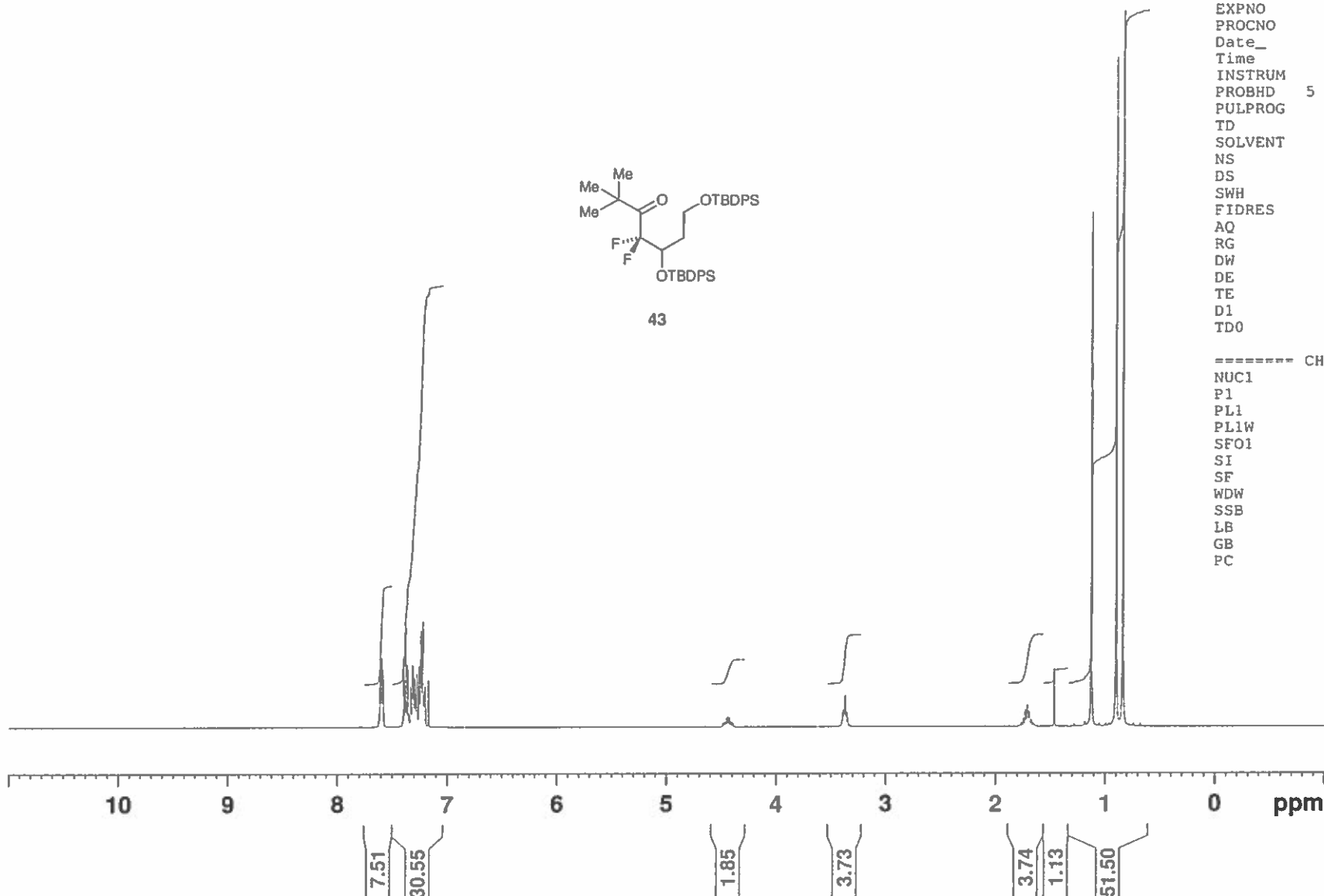


NAME 2013-06-13-ejt-14  
EXPNO 10  
PROCNO 1  
Date\_ 20130613  
Time 16.51  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 101  
DW 60.500 usec  
DE 9.40 usec  
TE 294.3 K  
D1 1.00000000 sec  
TD0 1

----- CHANNEL f1 -----  
NUC1 1H  
P1 10.00 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300465 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

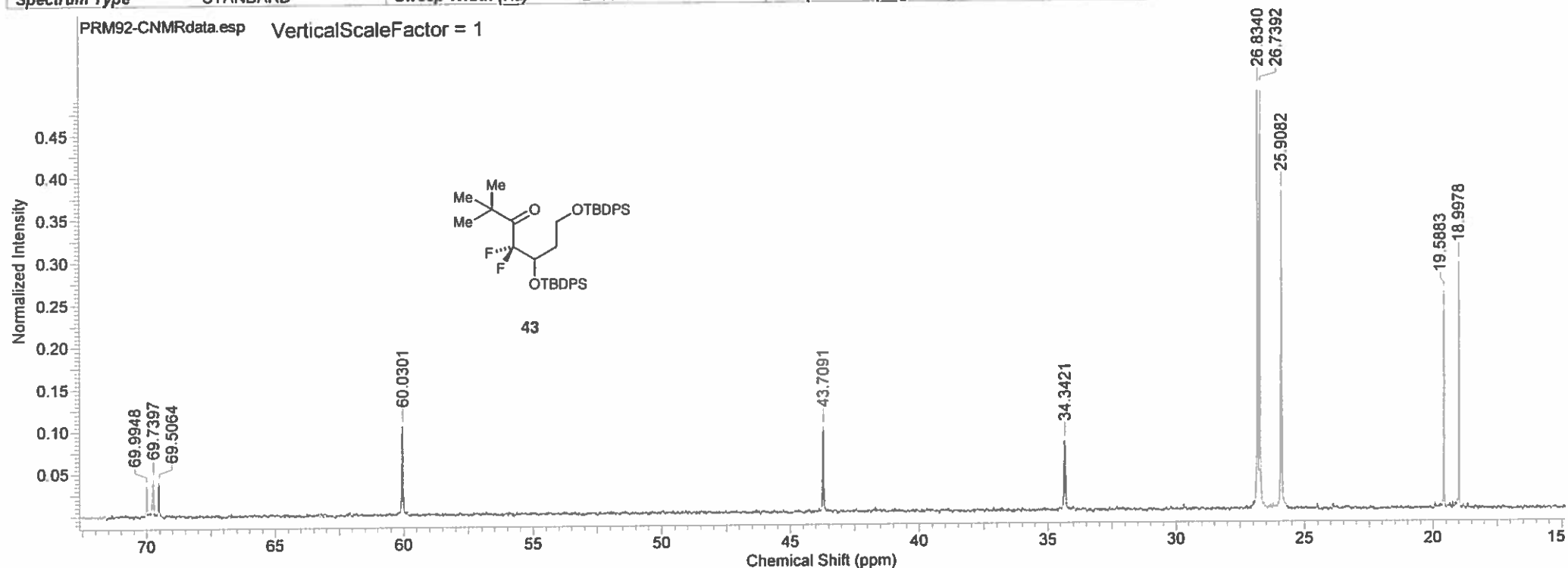


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Acquisition Time (sec)	1.3631	Comment	EJT-PRM92 prod data mCARBON_A CDCI3 (E:\bruk400service_data\2013\Aug) ejt 12				
Date	16 Aug 2013 13:01:04	Date Stamp	16 Aug 2013 13:01:04				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400SERVICE_DATA\2013\AUG\DATA\EJT\NMR\2013-08-16-EJT-12\10\PDATA\1\1R						
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients	256	Origin	AV400_S
Original Points Count	32768	Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	2050.00	SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10052.9766
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C)	25.100		



No.	(ppm)	(Hz)	Height
1	19.00	1911.9	0.2909
2	19.59	1971.3	0.2561
3	25.91	2607.3	0.3759
4	26.74	2691.0	0.6812
5	26.83	2700.5	0.7331
6	34.34	3456.1	0.0819
7	43.71	4398.8	0.1006

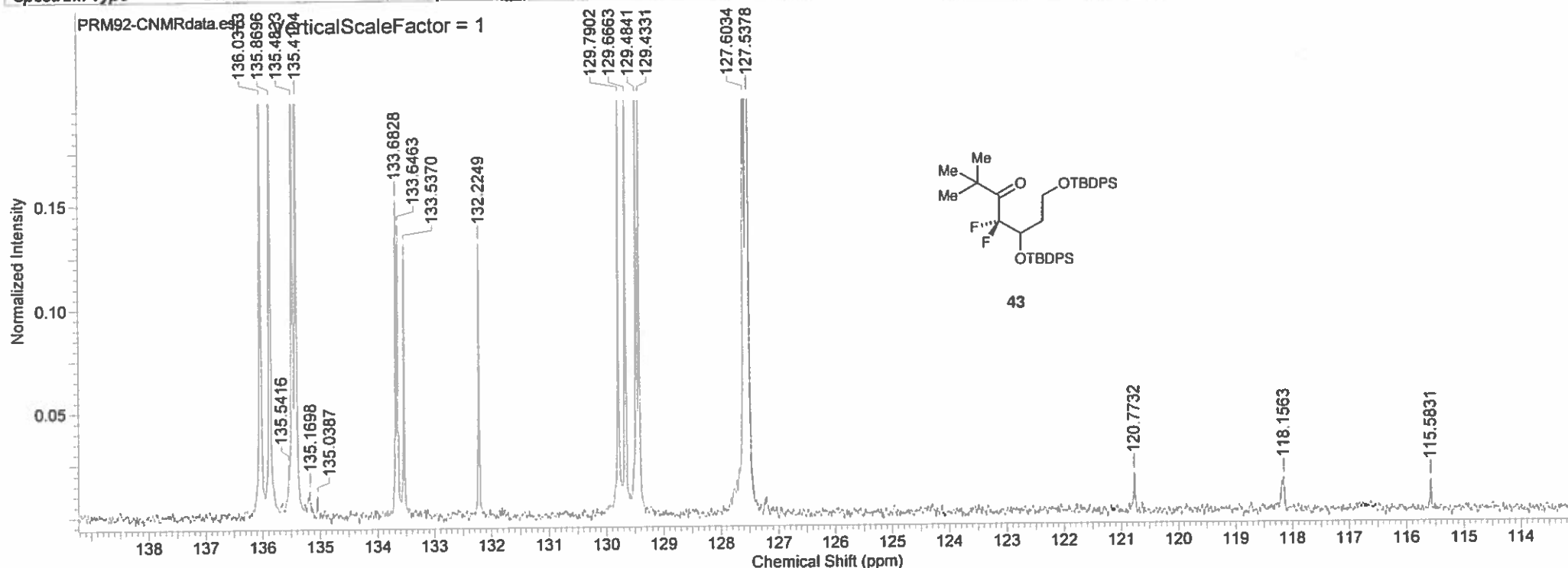
No.	(ppm)	(Hz)	Height
8	60.03	6041.3	0.1051
9	69.51	6995.0	0.0402
10	69.74	7018.5	0.0451
11	69.99	7044.1	0.0362
12	115.58	11632.0	0.0139
13	118.16	11891.0	0.0151
14	120.77	12154.4	0.0177

No.	(ppm)	(Hz)	Height
15	127.54	12835.1	1.0000
16	127.60	12841.7	0.4956
17	129.43	13025.9	0.2381
18	129.48	13031.0	0.2207
19	129.67	13049.3	0.2017
20	129.79	13061.8	0.2198
21	132.22	13306.8	0.1308

No.	(ppm)	(Hz)	Height
22	133.54	13438.9	0.1312
23	133.65	13449.9	0.1402
24	133.68	13453.6	0.1522
25	135.04	13590.0	0.0101
26	135.17	13603.2	0.0124
27	135.41	13627.4	0.5391
28	135.48	13634.8	0.4682

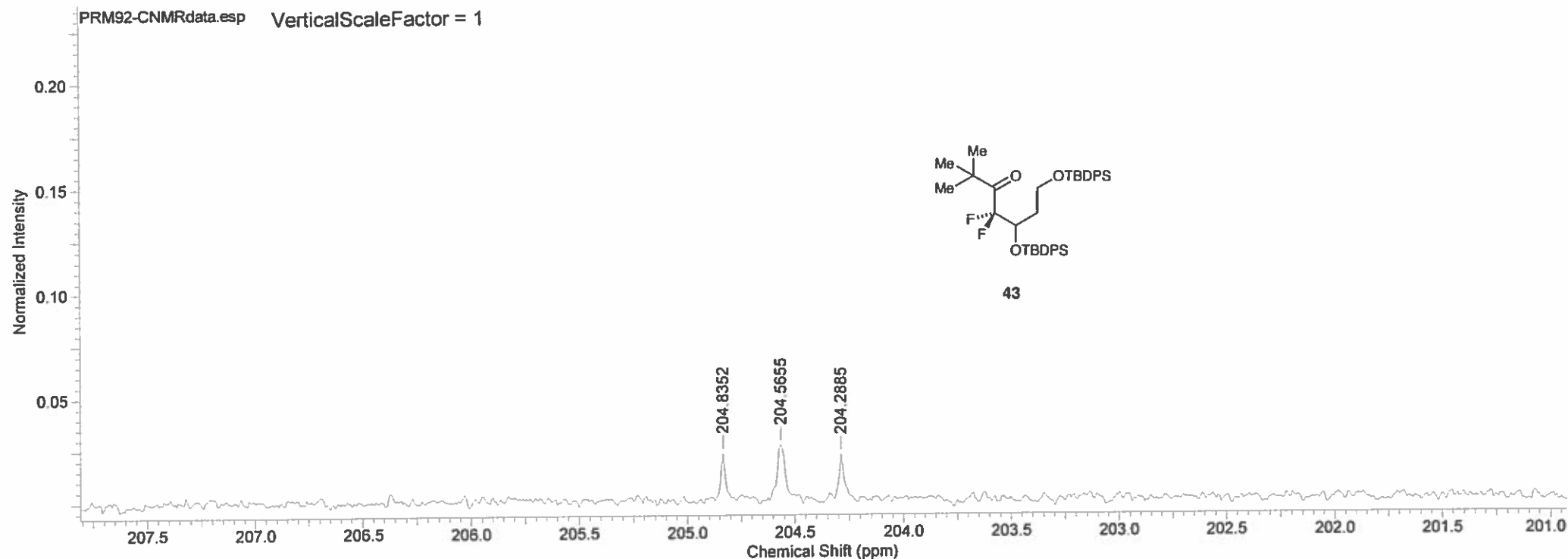
No.	(ppm)	(Hz)	Height
29	135.54	13640.6	0.0254
30	135.87	13673.6	0.4506
31	136.04	13690.5	0.3669
32	204.29	20559.2	0.0217
33	204.57	20587.0	0.0263
34	204.84	20614.2	0.0223

Acquisition Time (sec)	1.3631	Comment	EJT-PRM92 prod data mCARBON_A CDCl3 (E:\bruk400service_data\2013\Aug) ejt 12				
Date	16 Aug 2013 13:01:04	Date Stamp	16 Aug 2013 13:01:04				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMR\DATA\BRUK400SERVICE_DATA\2013\AUG\DATA\EJT\NMR\2013-08-16-EJT-12\10\PDATA\1\1R						
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients	256	Origin	AV400_S
Original Points Count	32768	Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	2050.00	SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10052.9766
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C)	25.100		



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	115.58	11632.0	0.0139	6	129.43	13025.9	0.2381	11	133.54	13438.9	0.1312	16	135.41	13627.4	0.5391
2	118.16	11891.0	0.0151	7	129.48	13031.0	0.2207	12	133.65	13449.9	0.1402	17	135.48	13634.8	0.4682
3	120.77	12154.4	0.0177	8	129.67	13049.3	0.2017	13	133.68	13453.6	0.1522	18	135.54	13640.6	0.0254
4	127.54	12835.1	1.0000	9	129.79	13061.8	0.2198	14	135.04	13590.0	0.0101	19	135.87	13673.6	0.4506
5	127.60	12841.7	0.4956	10	132.22	13306.8	0.1308	15	135.17	13603.2	0.0124	20	136.04	13690.5	0.3669
												21	204.29	20559.2	0.0217
												22	204.57	20587.0	0.0263
												23	204.84	20614.2	0.0223

Acquisition Time (sec)	1.3631	Comment	EJT-PRM92 prod data mCARBON A CDCl3 (E:\bruk400service_data\2013\Aug) ejt 12		
Date	16 Aug 2013 13:01:04	Date Stamp	16 Aug 2013 13:01:04		
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400SERVICE DATA\2013\AUG\DATA\EJT\NMR\2013-08-16-EJT-12\10\PDATA\111R				
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients	256
Original Points Count	32768	Owner	Administrator	Points Count	32768
Receiver Gain	2050.00	SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C)	25.100
				Origin	AV400 S
				Pulse Sequence	zgpg30
				Spectrum Offset (Hz)	10052.9766

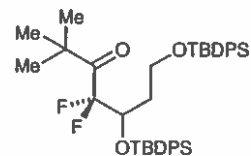


No.	(ppm)	(Hz)	Height
1	204.29	20559.2	0.0217
2	204.57	20587.0	0.0263
3	204.84	20614.2	0.0223

EJT-PRM92 prod frags 40mg  
mF19CPD CDCl3 {e:\bruk400data\2013\Jun} ejt 14



-109.59  
-110.33  
-111.31  
-112.05



43

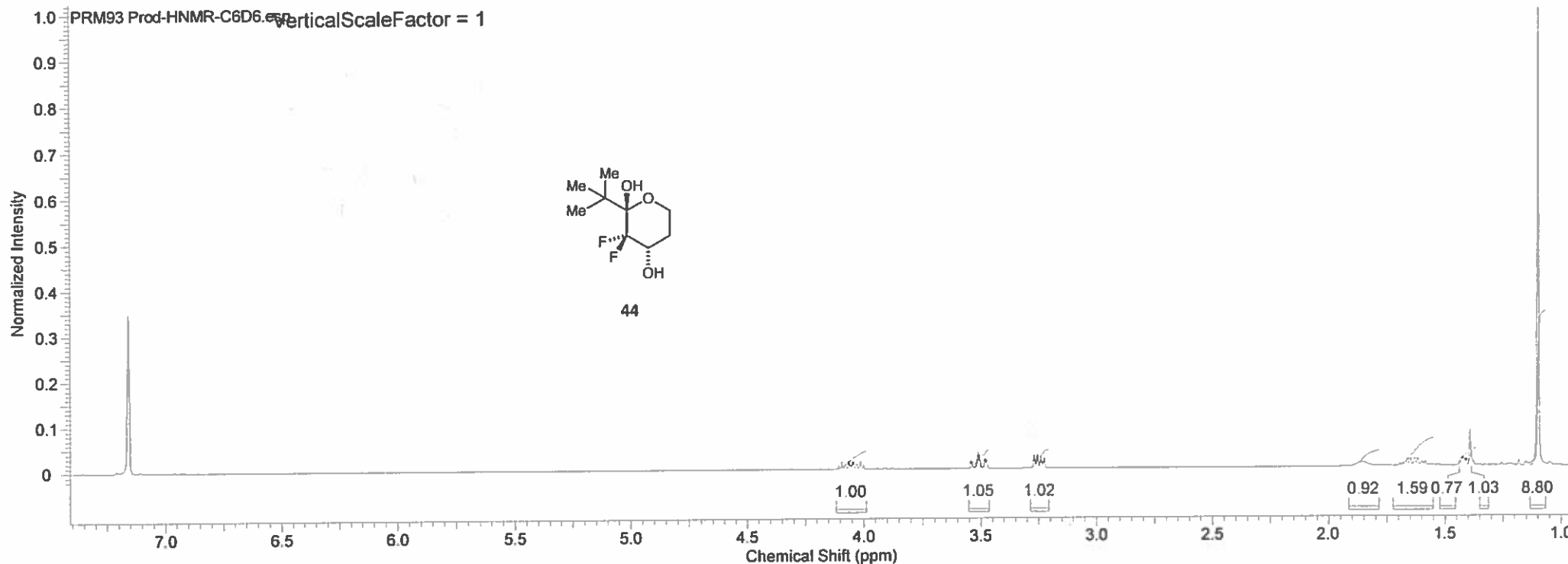
NAME 2013-06-13-ejt-14  
EXPNO 11  
PROCNO 1  
Date\_ 20130613  
Time 16.53  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zgig  
TD 131072  
SOLVENT CDCl3  
NS 16  
DS 4  
SWH 89285.711 Hz  
FIDRES 0.681196 Hz  
AQ 0.7340532 sec  
RG 4100  
DW 5.600 usec  
DE 7.51 usec  
TE 294.5 K  
D1 1.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 19F  
P1 10.70 usec  
PL1 -5.00 dB  
PL1W 27.00716019 W  
SFO1 376.4607164 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 90.00 usec  
PL2 -3.60 dB  
PL12 15.31 dB  
PL2W 17.83863831 W  
PL12W 0.22927761 W  
SFO2 400.1316005 MHz  
SI 262144  
SF 376.4983660 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 2.00

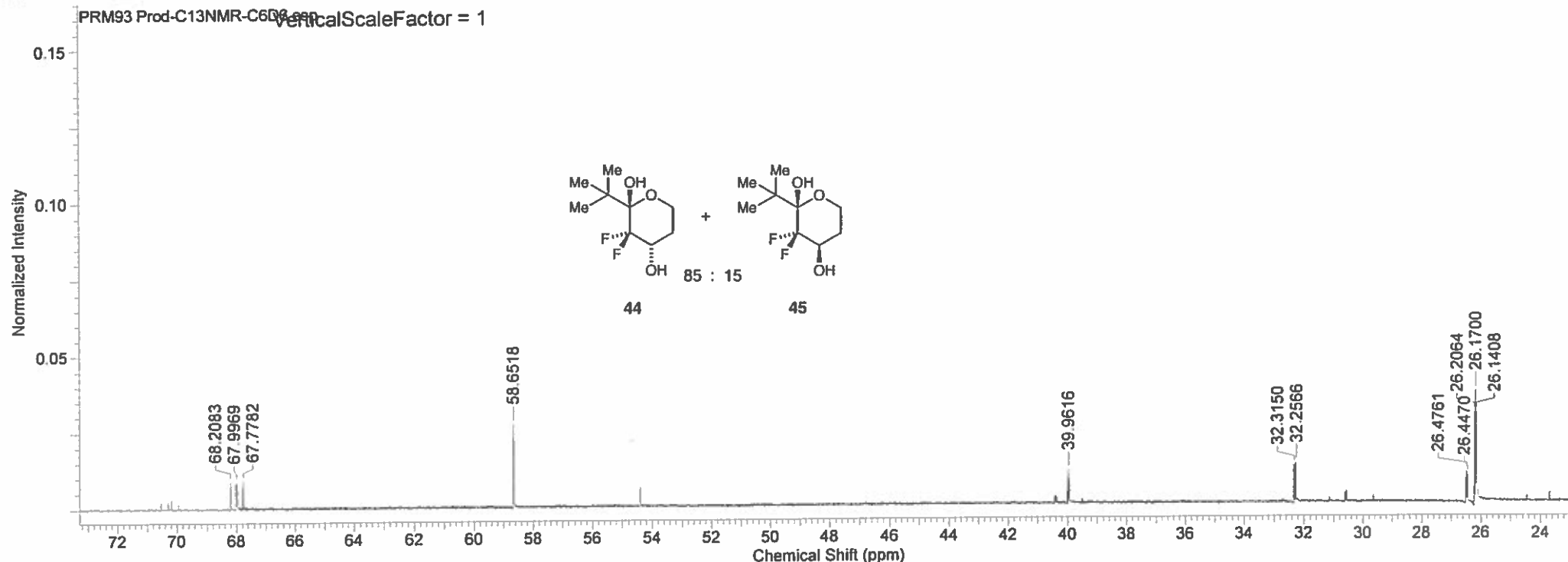
0 -20 -40 -60 -80 -100 -120 -140 -160 -180 -200 -220 ppm

Acquisition Time (sec)	3.9846	Comment	EJT-PRM93 Product data C-13 mPROTON C6D6 (E:\bruk400service_data\2013\Sep) Administrator 4				
Date	16 Sep 2013 13:05:20	Date Stamp	16 Sep 2013 13:05:20				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400service_data\2013\Sep\data\Administrator\nmr\2013-09-16-Administrator-4\110\fid						
Frequency (MHz)	400.23	Nucleus	1H	Number of Transients	16	Origin	AV400_S
Original Points Count	32768	Owner	Administrator	Points Count	32768	Pulse Sequence	zg30
Receiver Gain	181.00	SW(cyclical) (Hz)	8223.68	Solvent	BENZENE-d6	Spectrum Offset (Hz)	2424.5730
Spectrum Type	STANDARD	Sweep Width (Hz)	8223.43	Temperature (degree C)	21.000		



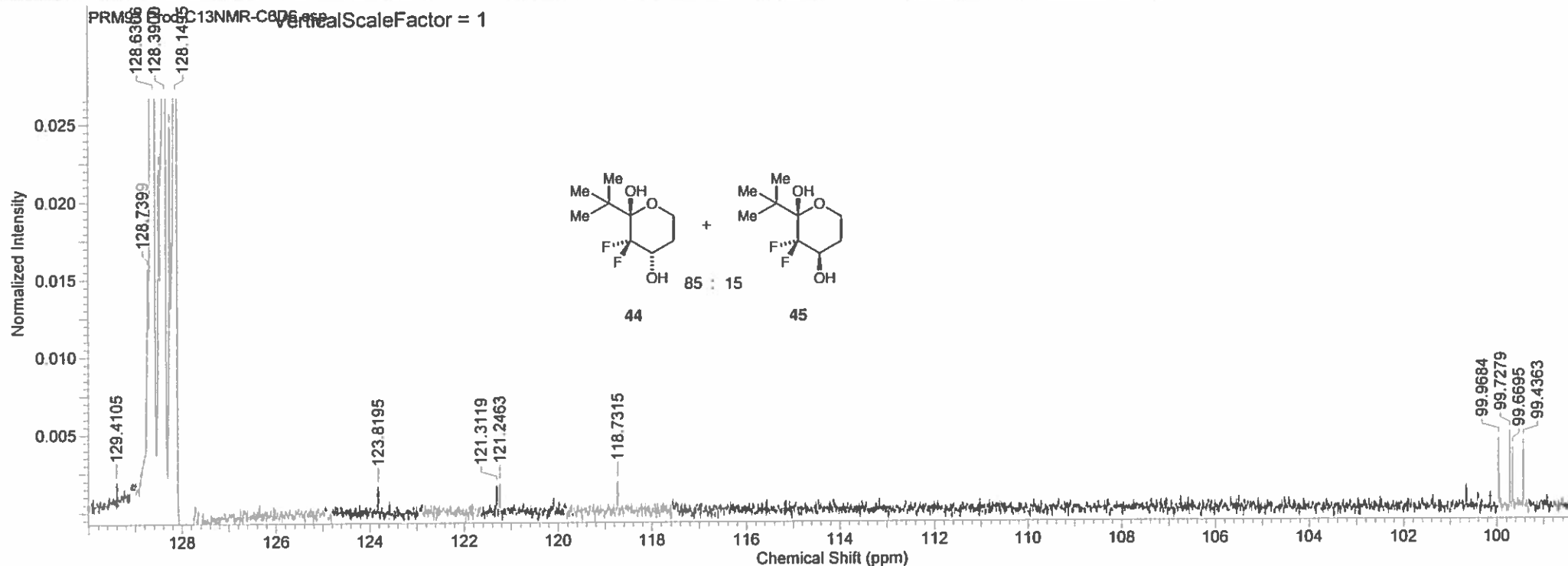
No.	(ppm)	Value	Absolute Value	Non-Negative Value
1	6663 .. 1.138	7.9730225	3.25690757e+10	8.79730225
2	3673 .. 1.401	1.02738047	3.80353306e+9	1.02738047
3	4051 .. 1.470	0.77102357	2.85445734e+9	0.77102357
4	5520 .. 1.721	1.59436548	5.90260582e+9	1.59436548
5	7838 .. 1.910	0.91760439	3.39712384e+9	0.91760439
6	2054 .. 3.281	1.02023995	3.77709773e+9	1.02023995
7	4649 .. 3.551	1.04753137	3.87813530e+9	1.04753137
8	9897 .. 4.110	0.99798036	3.69468902e+9	0.99798036

Acquisition Time (sec)	1.3631	Comment	EJT-PRM93 Product data C-13 mCARBON C6D6 (E:\bruk400service_data\2013\Sep) Administrator 4				
Date	16 Sep 2013 13:56:32	Date Stamp	16 Sep 2013 13:56:32				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400service_data\2013\Sep\data\Administrator\nmr\2013-09-16-Administrator-4\13\fid						
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients	12000	Origin	AV400_S
Original Points Count	32768	Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	2050.00	SW(cyclical) (Hz)	24038.46	Solvent	BENZENE-d6	Spectrum Offset (Hz)	10119.6650
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C)	21.000		



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	26.14	2630.8	0.0291	4	26.45	2661.6	0.0085	7	32.31	3252.1	0.0121	10	67.78	6821.1	0.0091
2	26.17	2633.7	0.0362	5	26.48	2664.5	0.0096	8	39.96	4021.7	0.0109	11	68.00	6843.1	0.0086
3	26.21	2637.4	0.0290	6	32.26	3246.2	0.0127	9	58.65	5902.6	0.0272	12	68.21	6864.3	0.0088

Acquisition Time (sec)	1.3631	Comment	EJT-PRM93 Product data C-13 mCARBON C6D6 (E:\bruk400service_data\2013\Sep) Administrator 4				
Date	16 Sep 2013 13:56:32	Date Stamp	16 Sep 2013 13:56:32				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400service_data\2013\Sep\data\Administrator\nmr\2013-09-16-Administrator-4\13\fid						
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients	12000	Origin	AV400_S
Original Points Count	32768	Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	2050.00	SW(cyclical) (Hz)	24038.46	Solvent	BENZENE-d6	Spectrum Offset (Hz)	10119.6650
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C)	21.000		



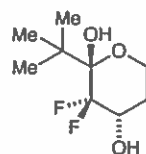
No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	26.14	2630.8	0.0291	7	32.31	3252.1	0.0121	13	99.44	10007.1	0.0043	19	121.31	12208.6	0.0017
2	26.17	2633.7	0.0362	8	39.96	4021.7	0.0109	14	99.67	10030.5	0.0039	20	123.82	12460.9	0.0016
3	26.21	2637.4	0.0290	9	58.65	5902.6	0.0272	15	99.73	10036.4	0.0049	21	128.15	12896.7	0.9836
4	26.45	2661.6	0.0085	10	67.78	6821.1	0.0091	16	99.97	10060.6	0.0045	22	128.27	12909.2	0.0249
5	26.48	2664.5	0.0096	11	68.00	6843.1	0.0086	17	118.73	11948.9	0.0019	23	128.39	12920.9	1.0000
6	32.26	3246.2	0.0127	12	68.21	6864.3	0.0088	18	121.25	12202.0	0.0018	24	128.51	12932.6	0.0222
												25	128.63	12945.1	0.9943
												26	128.74	12956.1	0.0157
												27	129.41	13023.6	0.0020

EJT-PRM93 Prod crystals CD2Cl2  
m19F CD2Cl2 /opt/oldbruk500data.11vii11/2013/Sep ejt 23

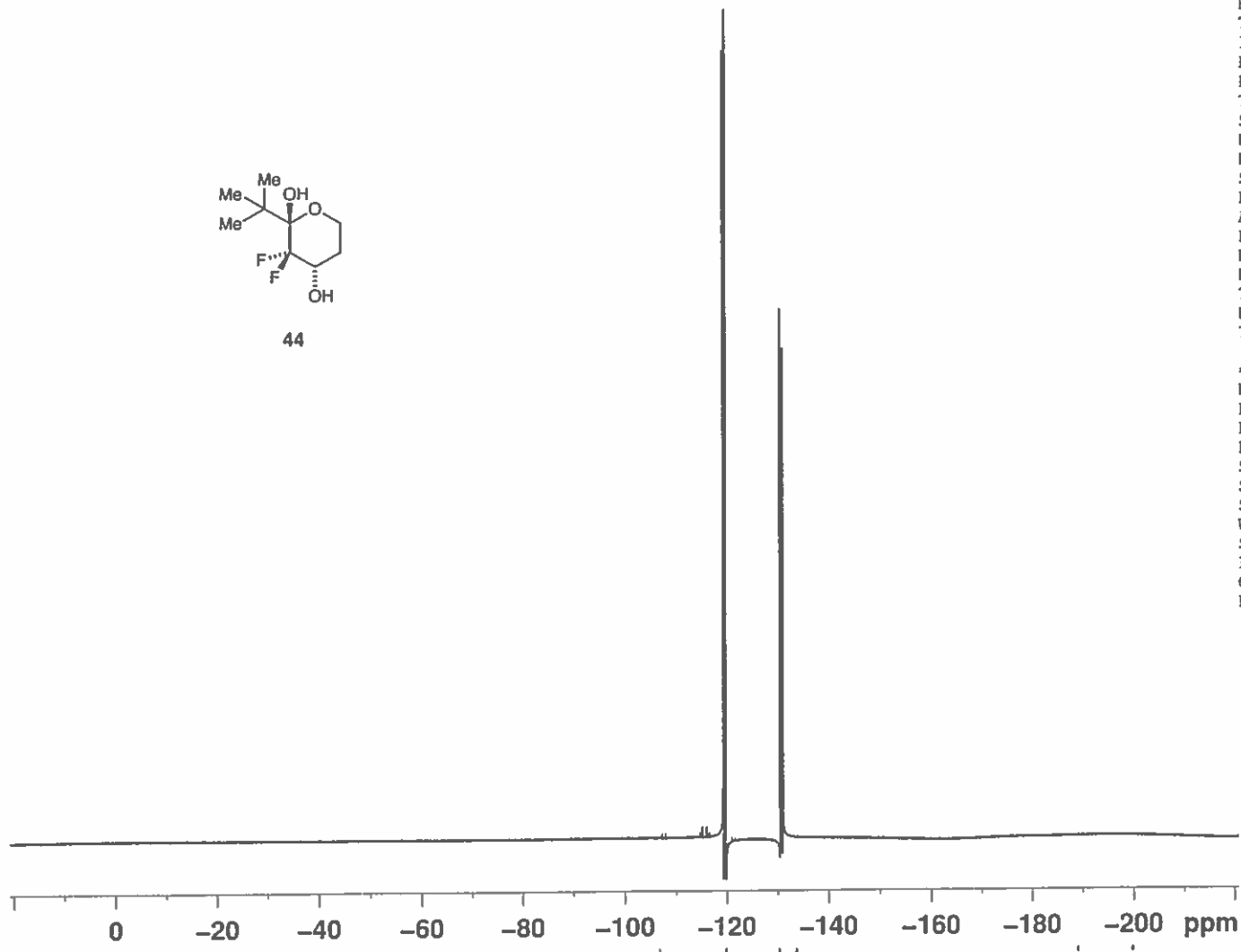


NAME 2013-09-10-ejt-23  
EXPNO 11  
PROCNO 1  
Date\_ 20130910  
Time 14.54  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zgfglqn  
TD 131072  
SOLVENT CD2Cl2  
NS 16  
DS 4  
SWH 113636.367 Hz  
FIDRES 0.866977 Hz  
AQ 0.5767668 sec  
RG 28.5  
DW 4.400 usec  
DE 6.50 usec  
TE 300.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 19F  
P1 17.50 usec  
PL1 -2.90 dB  
PL1W 48.97788239 W  
SFO1 470.5453180 MHz  
SI 65536  
SF 470.5923770 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



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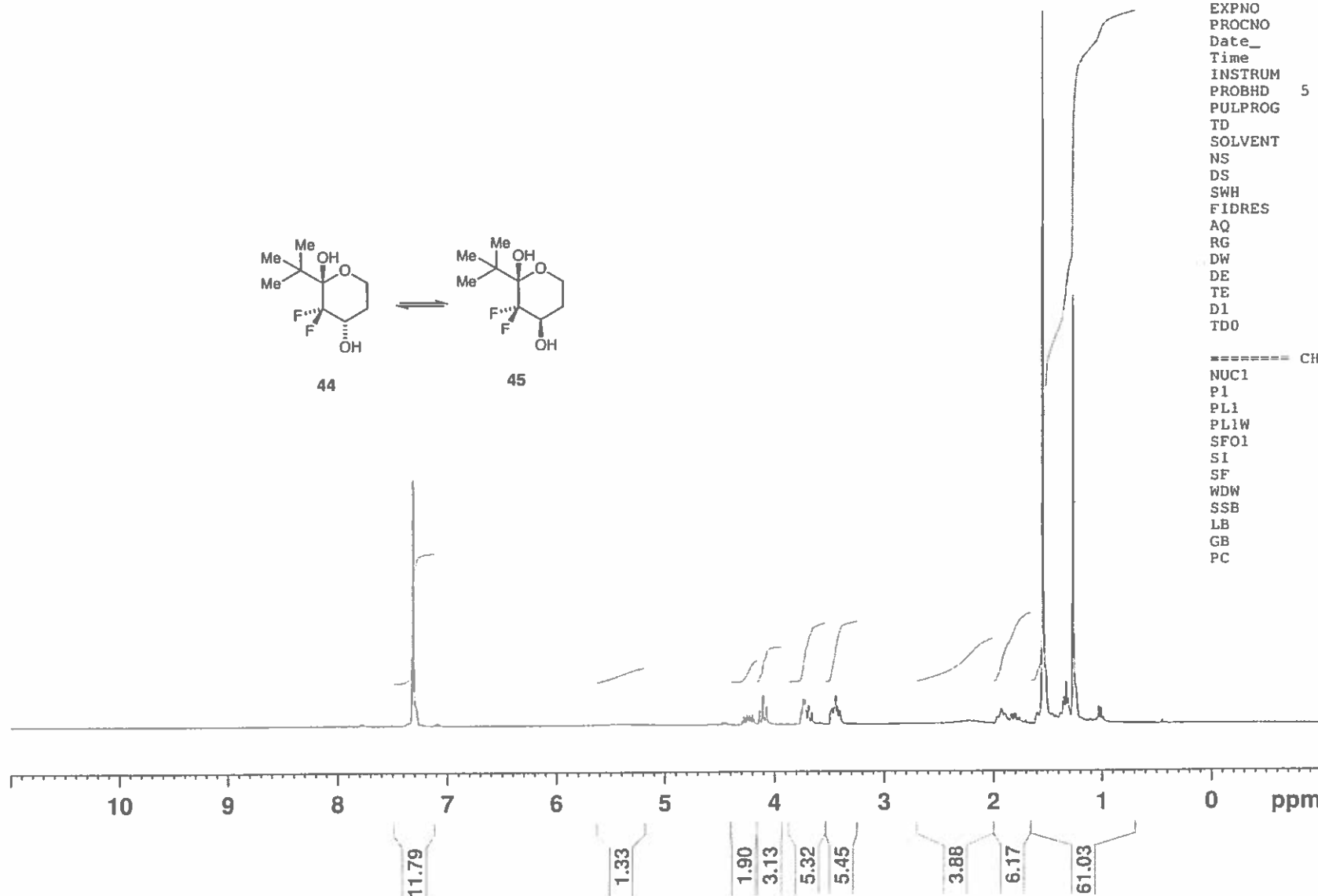
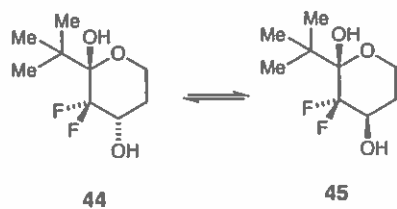


EJT-PRM93 Prod crystals in C6D6 2\*o/n  
 mPROTON C6D6 {e:\bruk400data\2013\Sep} ejt 17



NAME 2013-09-12-ejt-17  
 EXPNO 10  
 PROCNO 1  
 Date\_ 20130912  
 Time 10.13  
 INSTRUM AV400  
 PROBHD 5 mm PABBO BB-  
 PULPROG zg30b  
 TD 65536  
 SOLVENT C6D6  
 NS 16  
 DS 0  
 SWH 8264.463 Hz  
 FIDRES 0.126106 Hz  
 AQ 3.9649780 sec  
 RG 114  
 DW 60.500 usec  
 DE 8.45 usec  
 TE 293.3 K  
 D1 1.00000000 sec  
 TD0 1

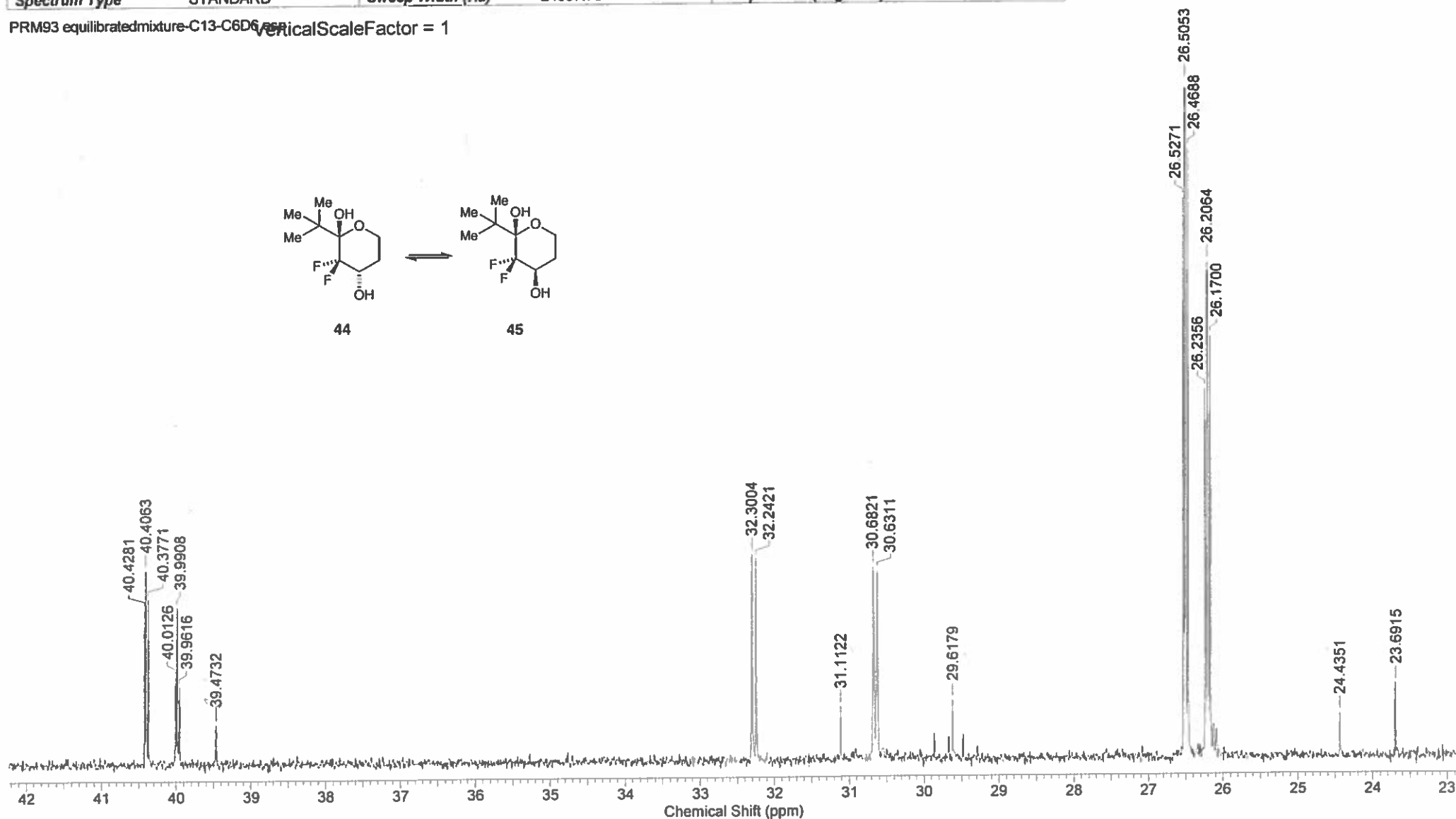
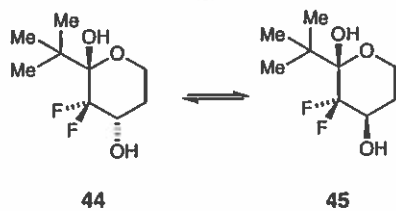
===== CHANNEL f1 =====  
 NUC1 1H  
 P1 14.50 usec  
 PL1 -3.60 dB  
 PL1W 17.83863831 W  
 SFO1 400.1324710 MHz  
 SI 32768  
 SF 400.1300000 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00



This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acddatabases.com/nmr/processor/](http://www.acddatabases.com/nmr/processor/)

Acquisition Time (sec)	1.3631	Comment	EJT-PRM93 Prod crystals mCARBON C6D6 (E:\bruk400service_data\2013\Sep) Administrator 10		
Date	12 Sep 2013 06:00:48	Date Stamp	12 Sep 2013 06:00:48		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmr\data\bruk400service_data\2013\Sep\data\Administrator\nmr\2013-09-11-Administrator-10\10\vid				
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients	12000
Original Points Count	32768	Owner	Administrator	Points Count	32768
Receiver Gain	2050.00	SW(cyclical) (Hz)	24038.46	Solvent	BENZENE-d6
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C)	18.900
				Pulse Sequence	zgpg30
				Spectrum Offset (Hz)	10119.6650

PRM93 equilibrated mixture C13-C6D6 25%  
VerticalScaleFactor = 1

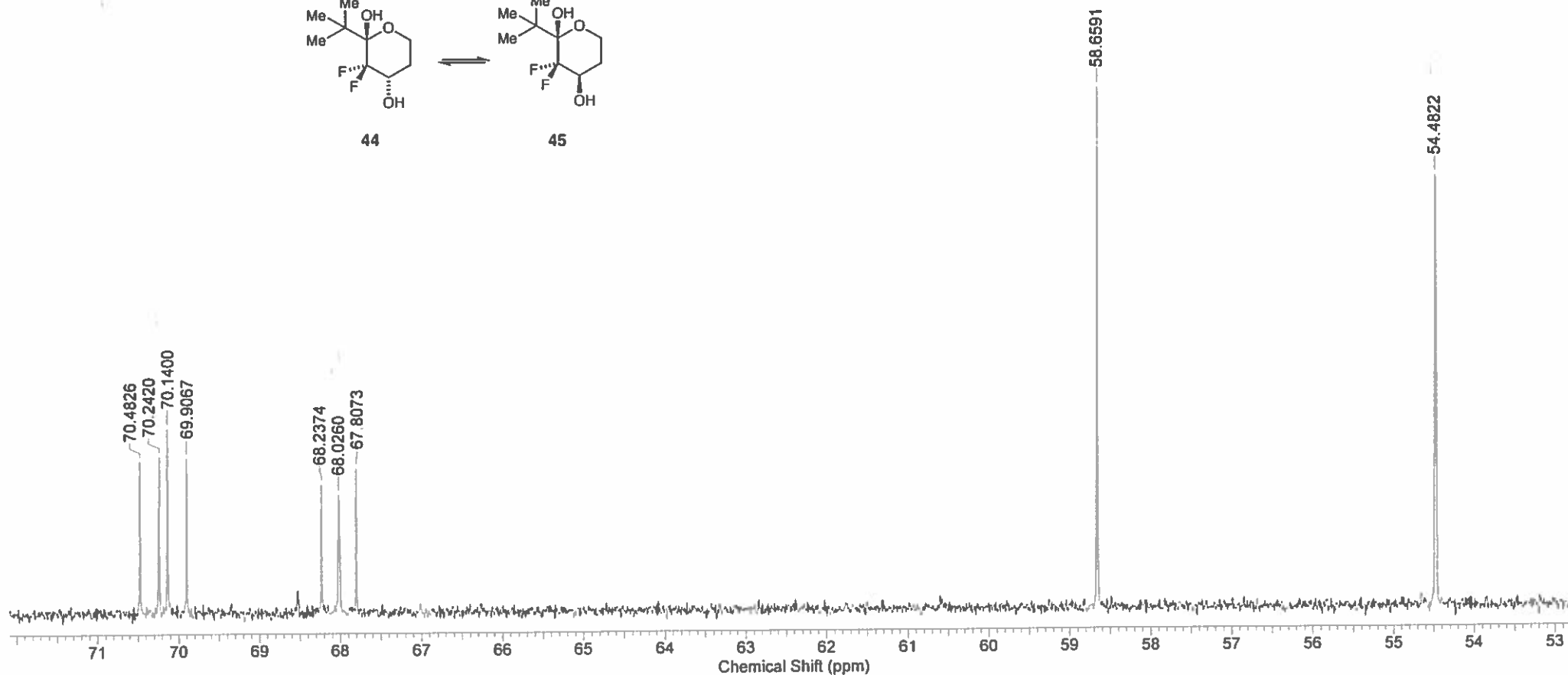
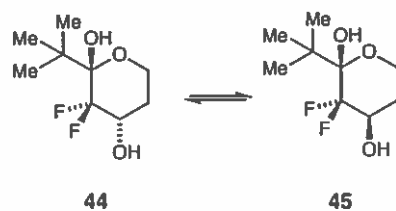


This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdnlabs.com/nmr/proc/](http://www.acdnlabs.com/nmr/proc/)

Acquisition Time (sec)	1.3631	Comment	EJT-PRM93 Prod crystals mCARBON C6D6 (E:\bruk400service_data\2013\Sep) Administrator 10		
Date	12 Sep 2013 06:00:48	Date Stamp	12 Sep 2013 06:00:48		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400service_data\2013\Sep\data\Administrator\nmr\2013-09-11-Administrator-10\10\fid				
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients	12000
Original Points Count	32768	Owner	Administrator	Points Count	32768
Receiver Gain	2050.00	SW(cyclical) (Hz)	24038.46	Solvent	BENZENE-d6
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C)	18.900
				Origin	AV400_S
				Pulse Sequence	zgpg30
				Spectrum Offset (Hz)	10119.6650

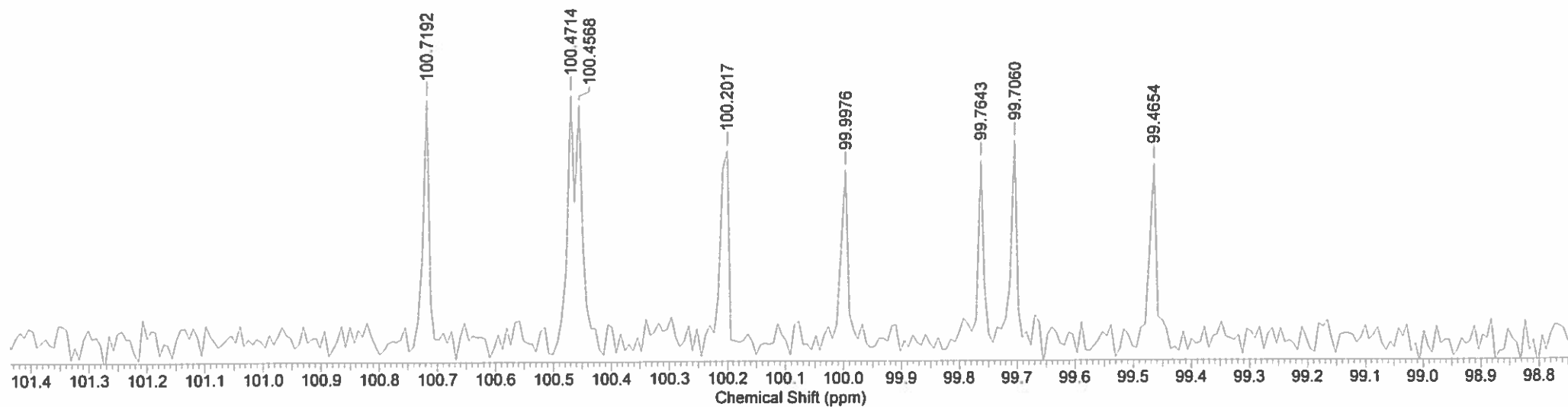
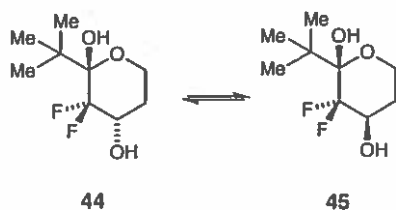
PRM93 equilibrated mixture C13-C6D6 asf  
VerticalScaleFactor = 1



This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.3631	Comment	EJT-PRM93 Prod crystals mCARBON C6D6 (E:\bruk400service_data\2013\Sep) Administrator 10				
Date	12 Sep 2013 06:00:48	Date Stamp	12 Sep 2013 06:00:48				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400service_data\2013\Sep\data\Administrator\nmr\2013-09-11-Administrator-10\10\fid						
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients	12000	Origin	AV400_S
Original Points Count	32768	Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	2050.00	SW(cyclical) (Hz)	24038.46	Solvent	BENZENE-d6	Spectrum Offset (Hz)	10119.6650
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C)	18.900		

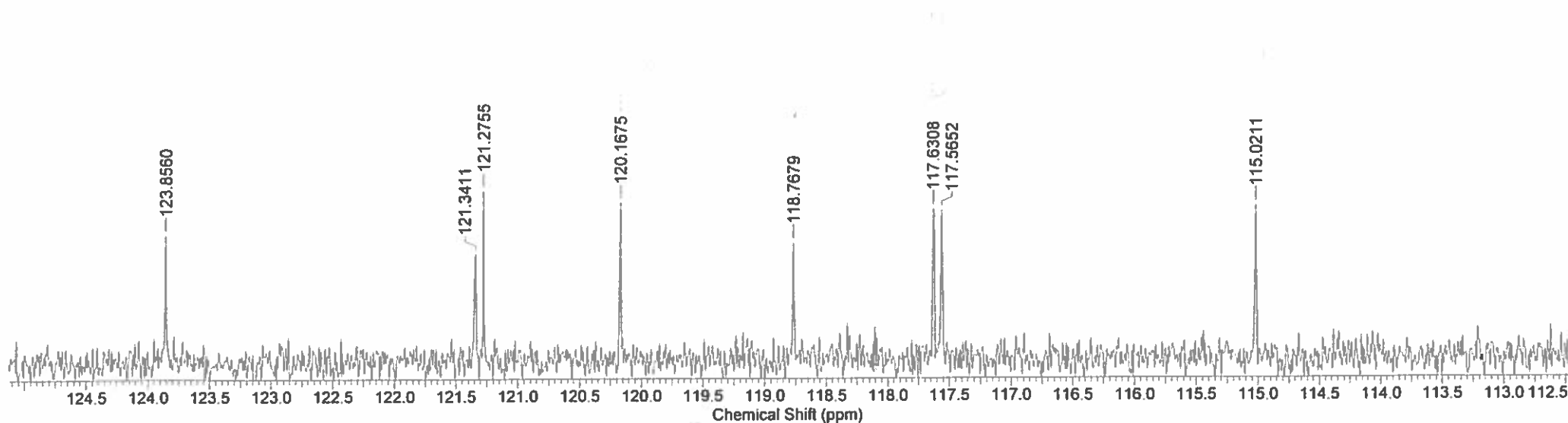
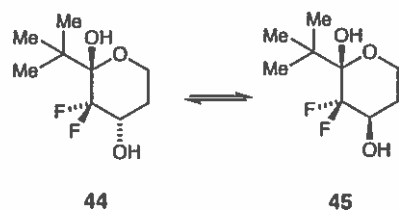
PRM93 equilibratedmixture-C13-C6D6.esp



This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

This report was created by ACD/NAME Processors Academic Edition. For more information go to: www.academicnmr.com							
Acquisition Time (sec)	1.3631	Comment	EJT-PRM93 Prod crystals mCARBON C6D6 (E:\bruk400service_data\2013\Sep) Administrator 10				
Date	12 Sep 2013 06:00:48	Date Stamp	12 Sep 2013 06:00:48				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400service_data\2013\Sep\data\Administrator\nmr\2013-09-11-Administrator-10\10\fid						
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients	12000	Origin	AV400_S
Original Points Count	32768	Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	2050.00	SW(cyclical) (Hz)	24038.46	Solvent	BENZENE-d6	Spectrum Offset (Hz)	10119.6650
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C)	18.900		

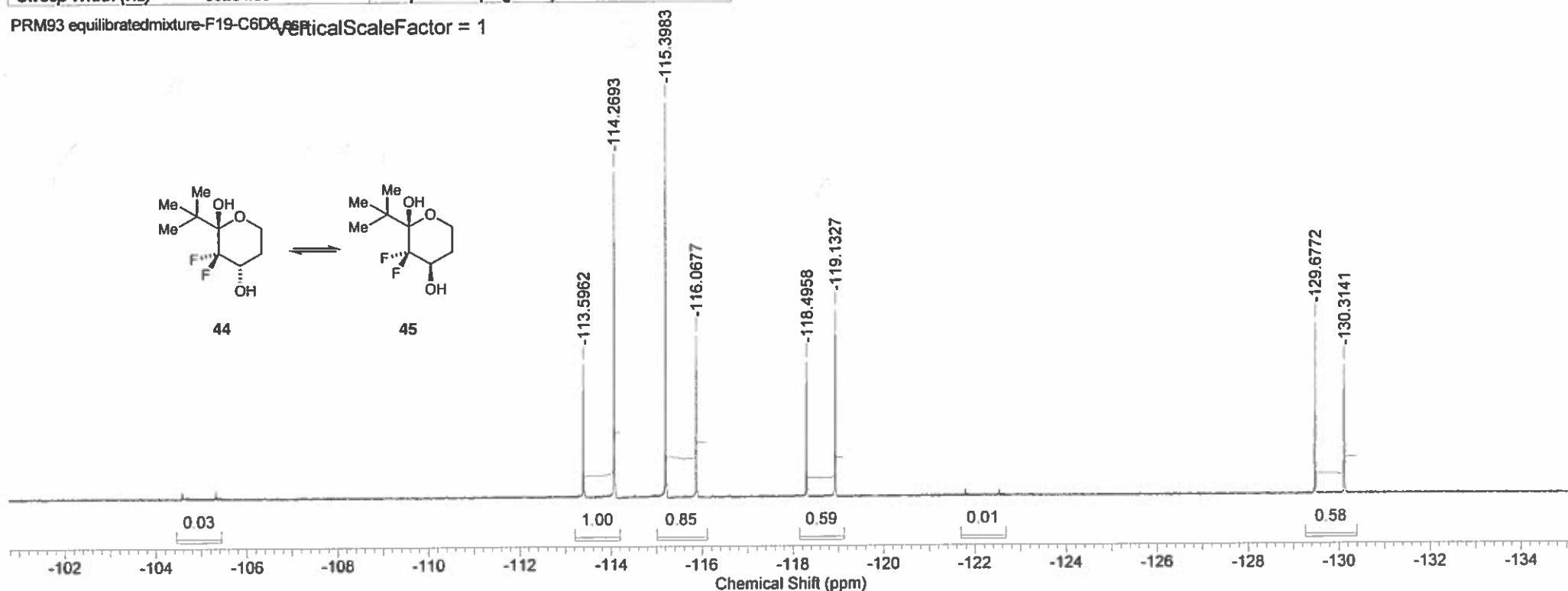
PRM93 equilibratedmixture-C13-C6D6.esp



This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	0.7340	Comment	EJT-PRM93 Prod crystals in C6D6 2"/n mF19CPD C6D6 (e:\bruk400data\2013\Sep)\ejt 17		
Date	12 Sep 2013 10:14:40	Date Stamp	12 Sep 2013 10:14:40		
File Name	\ss7a.ds.man.ac.uk\vol3\users\snmrdata\bruk400data\2013\Sep\data\ejt\nmr\2013-09-12-ejt-17\11Vid			Frequency (MHz)	376.50
Nucleus	19F	Number of Transients	16	Origin	AV400
Owner	Administrator	Points Count	65536	Pulse Sequence	zgig
SW(cyclical) (Hz)	89285.71	Solvent	BENZENE-d6	Spectrum Offset (Hz)	-37649.5977
Sweep Width (Hz)	89284.35	Temperature (degree C)	20.500	Spectrum Type	STANDARD

PRM93 equilibrated mixture-F19-C6D6 ASP  
VerticalScaleFactor = 1



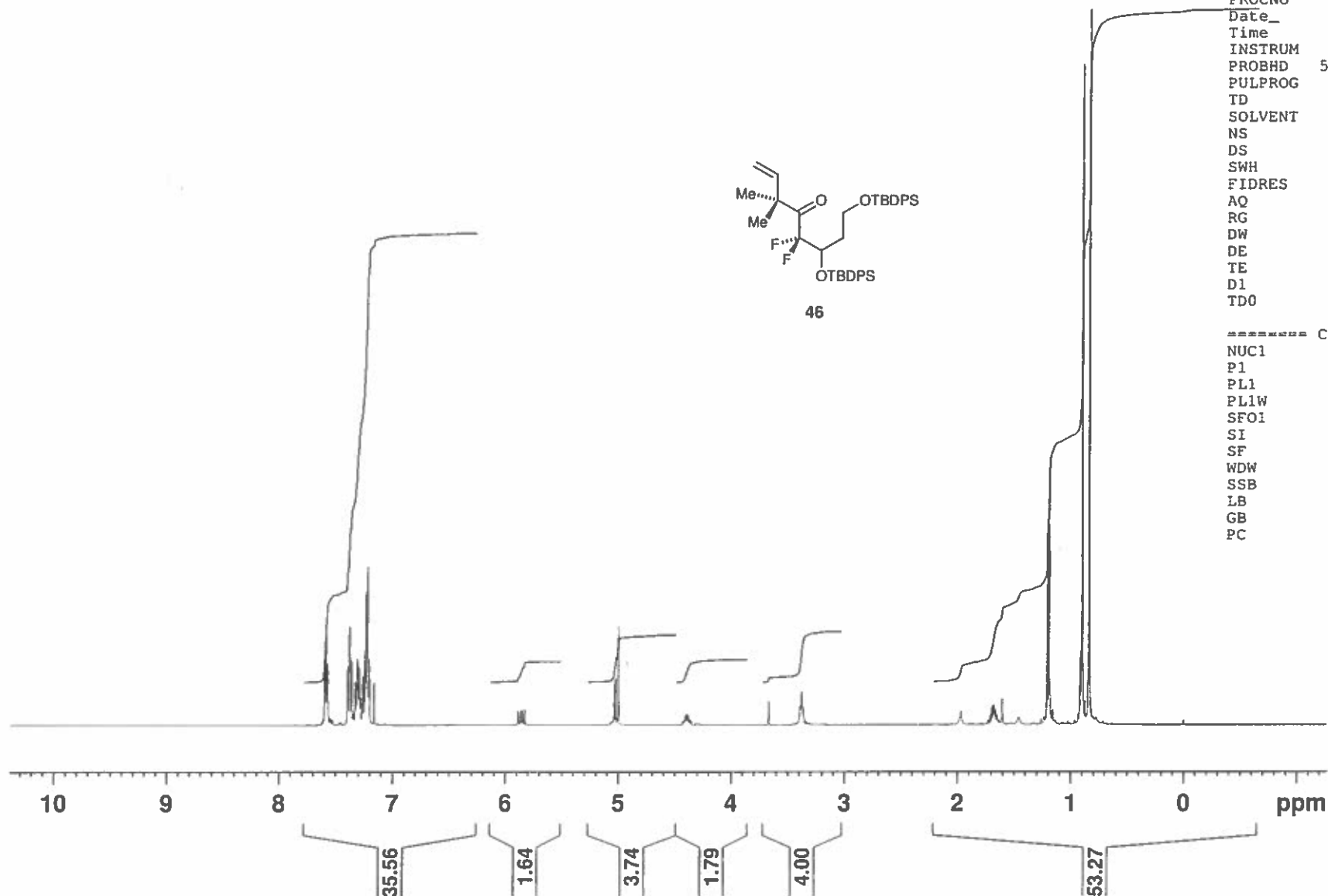
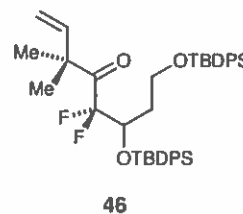
No.	(ppm)	Value	Absolute Value	Non-Negative Value
1	5932 .. -1290.57895821	1.36767340e+7	0.57895821	
2	3756 .. -1210.00921777	2.17751453e+5	0.00921777	
3	3266 .. -1180.59456044	1.40453060e+7	0.59456044	
4	3128 .. -1150.84520292	1.99662340e+7	0.84520292	
5	3975 .. -1131.00384212	2.37137700e+7	1.00384212	
6	5377 .. -1040.02603587	6.15045438e+5	0.02603587	

EJT-PRM94 f7-16 47mg  
mPROTON CDCl3 /opt/oldbruk500data.11vii11/2013/Jun ejt 15

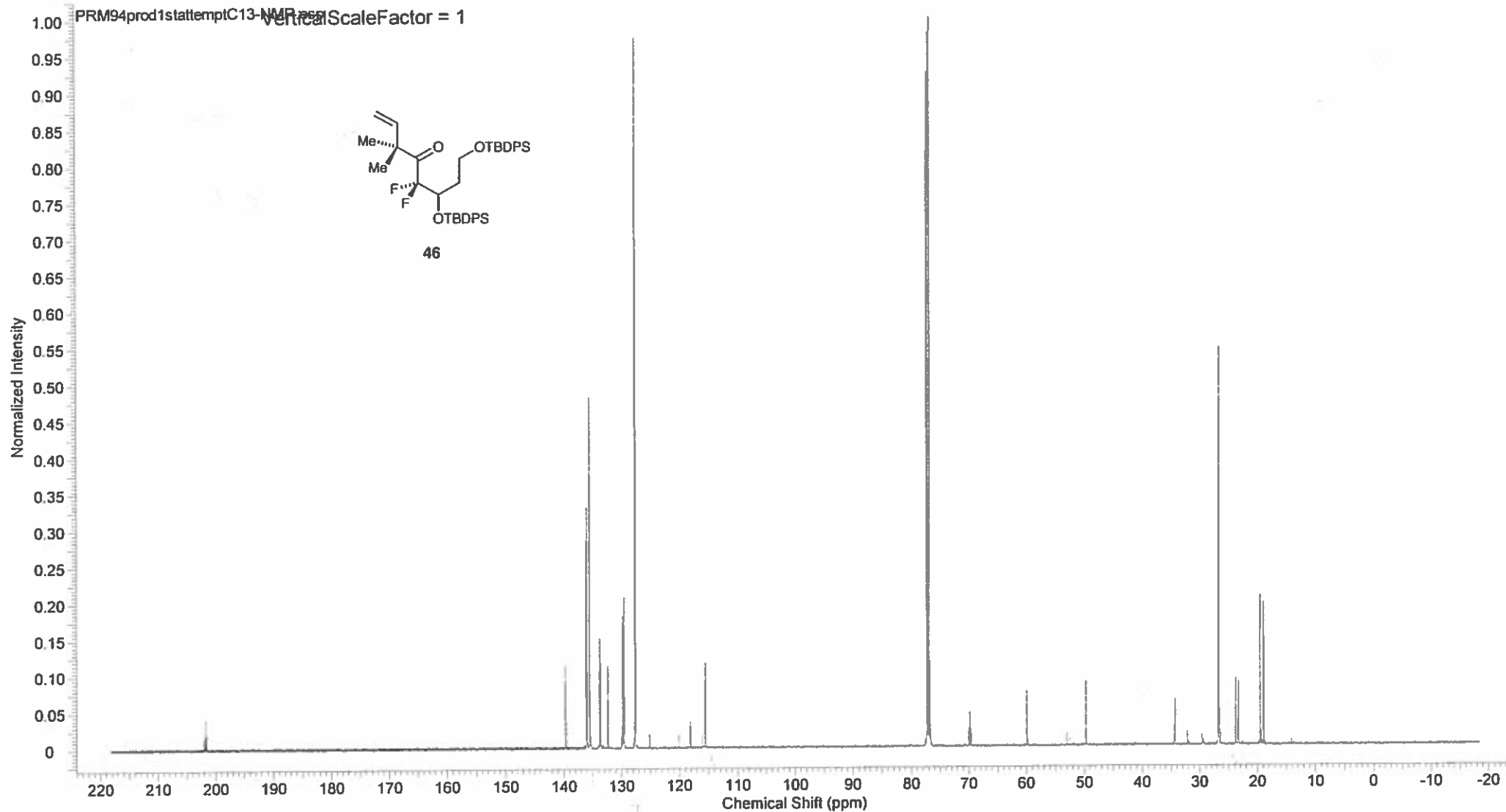


NAME 2013-06-12-ejt-15  
EXPNO 10  
PROCNO 1  
Date\_ 20130612  
Time 15.56  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 20.2  
DW 48.400 usec  
DE 13.00 usec  
TE 298.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -0.10 dB  
PL1W 26.21803665 W  
SFO1 500.1330885 MHz  
SI 32768  
SF 500.1300610 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

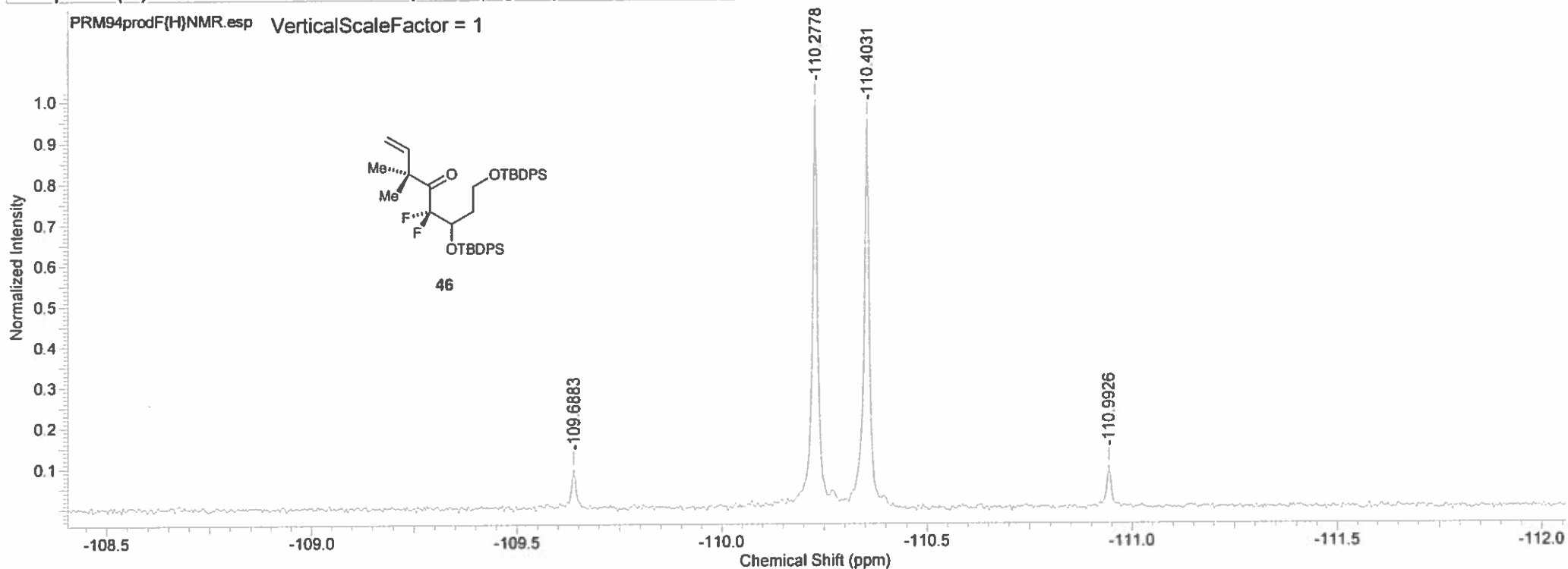


Acquisition Time (sec)	1.1010	Comment	EJT-PRM94 Prod data mCARBONnight CDCI3 /opt/oldbruk500data.11vii11/2013/Jun ejt 15			
Date	13 Jun 2013 04:54:40	Date Stamp	13 Jun 2013 04:54:40			
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2013JUN\DATA\EJT\NMR\2013-06-12-EJT-15\20\PDATA\111R					
Frequency (MHz)	125.76	Nucleus	13C	Number of Transients	3072	Origin spect
Original Points Count	32768	Owner	vnmr1	Points Count	32768	Pulse Sequence zgpg30
Receiver Gain	512.00	SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Spectrum Offset (Hz) 12571.1670
Spectrum Type	STANDARD	Sweep Width (Hz)	29761.00	Temperature (degree C)	25.029	





Acquisition Time (sec)	0.5767	Comment	ETJ-PRM94 prod frags 354mg m19FCPD CDCl3 /opt/oldbruk500data.11v11/2013/Aug ejt 1		
Date	24 Aug 2013 18:04:00	Date Stamp	24 Aug 2013 18:04:00		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500data\bruk500data\2013\Aug\data\ejt\nmr\2013-08-24-ejt-1\12\fid			Frequency (MHz)	470.59
Nucleus	19F	Number of Transients	16	Origin	spect
Owner	nmr1	Points Count	65536	Pulse Sequence	zgfhgqn
SW (cyclical) (Hz)	113636.37	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-47059.0234
Sweep Width (Hz)	113634.63	Temperature (degree C)	27.000	Spectrum Type	STANDARD



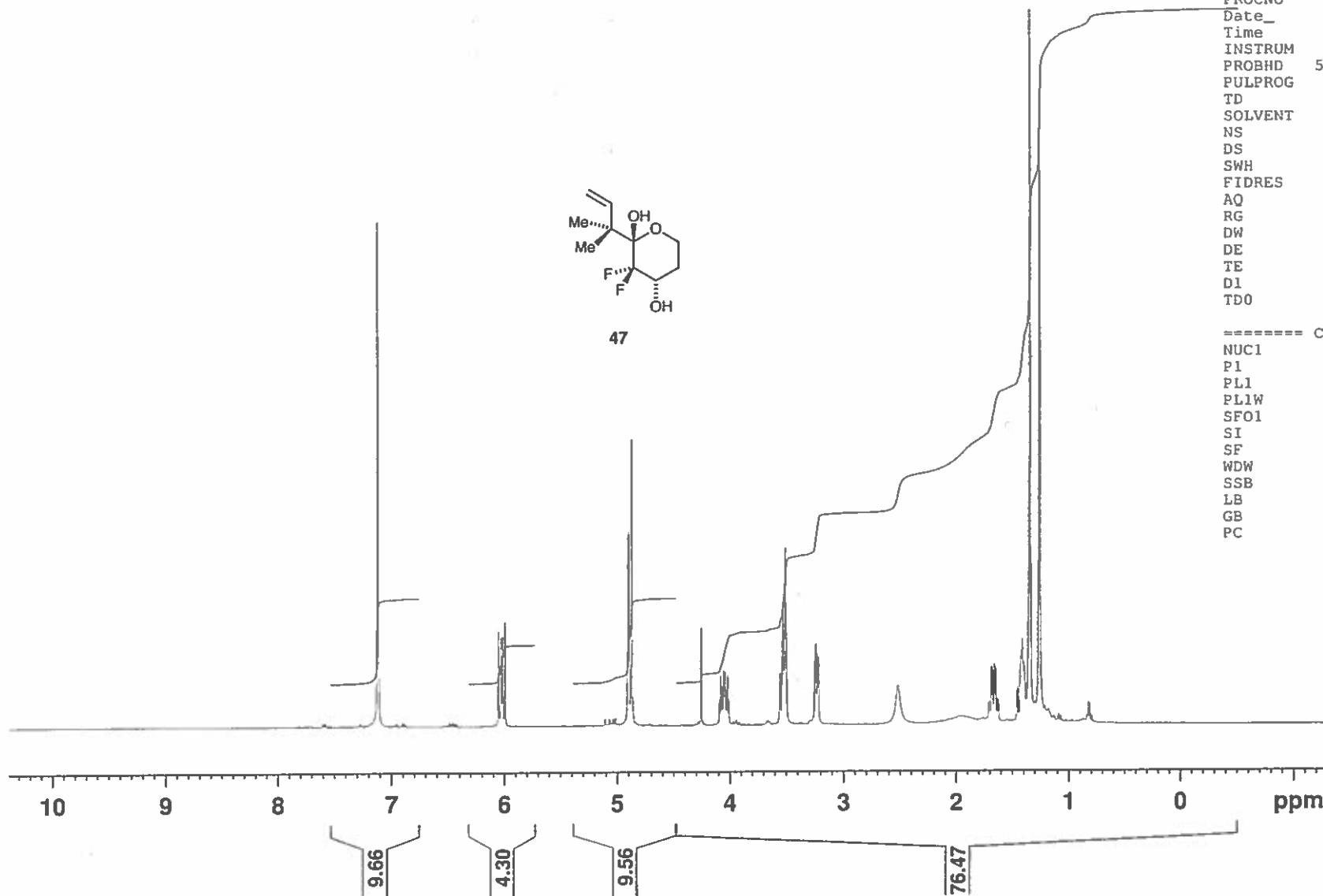
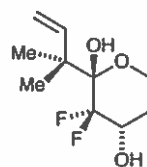
No.	(ppm)	(Hz)	Height
1	-110.99	-52232.3	0.1008
2	-110.40	-51954.8	0.9523
3	-110.28	-51895.9	1.0000
4	-109.69	-51618.5	0.0963

EJT-PRM95 Product data  
mPROTON C6D6 /opt/oldbruk500data.11vii11/2013/Sep ejt 11

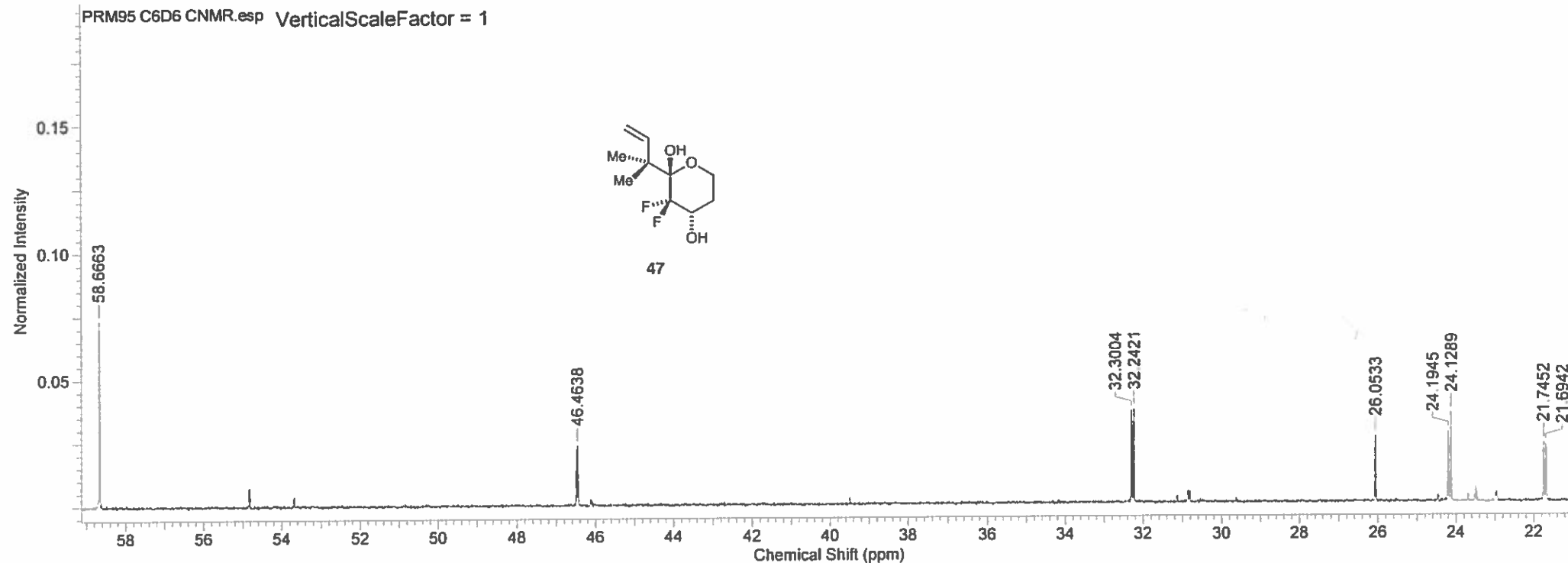


NAME 2013-09-20-ejt-11  
EXPNO 10  
PROCNO 1  
Date\_ 20130920  
Time 10.35  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT C6D6  
NS 16  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 22.6  
DW 48.400 usec  
DE 13.00 usec  
TE 300.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -0.10 dB  
PL1W 26.21803665 W  
SFO1 500.1330885 MHz  
SI 32768  
SF 500.1300778 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

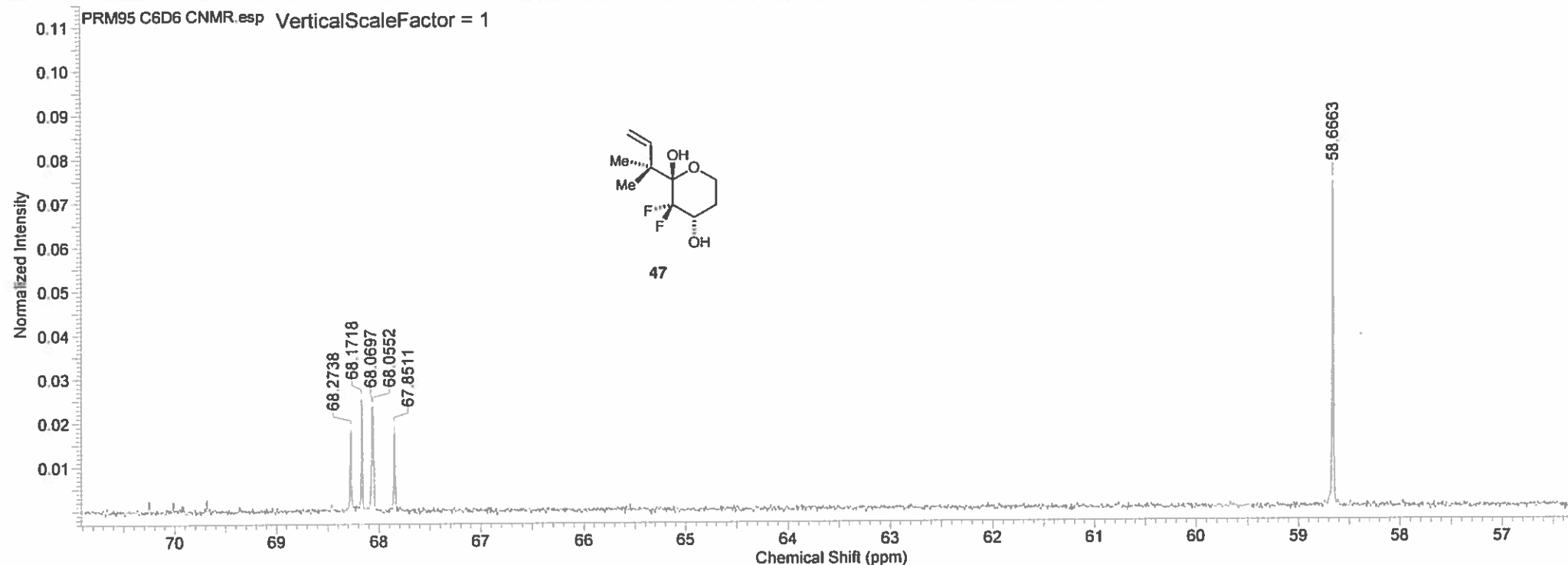


Acquisition Time (sec)	1.3631	Comment	P Mears 0913-081 ejt-prm95 prod xtals mCARBON C6D6 (E:\bruk400service_data\2013\Sep) Administrator 13		
Date	20 Sep 2013 10:46:40	Date Stamp	20 Sep 2013 10:46:40		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400service_data\2013\Sep\data\Administrator\nmr\2013-09-20-Administrator-13\11\fid				
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients	6144
Original Points Count	32768	Owner	Administrator	Points Count	32768
Receiver Gain	2050.00	SW(cyclical) (Hz)	24038.46	Solvent	BENZENE-d6
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C)	21.700
				Origin	AV400_S
				Pulse Sequence	zgpg30
				Spectrum Offset (Hz)	10120.3975



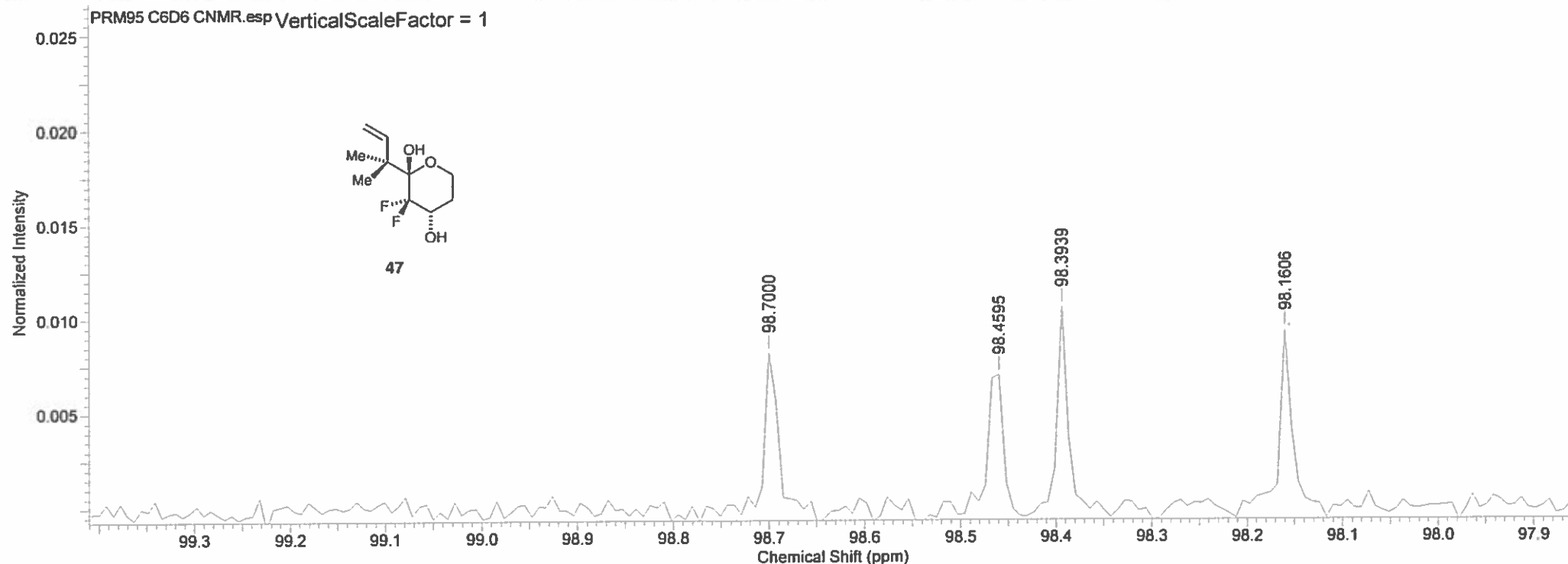
No.	(ppm)	(Hz)	Height
1	21.69	2183.3	0.0226
2	21.75	2188.4	0.0232
3	24.13	2428.3	0.0351
4	24.19	2434.9	0.0275
5	26.05	2622.0	0.0258
6	32.24	3244.8	0.0365
7	32.30	3250.6	0.0363
8	46.46	4676.0	0.0235
9	58.67	5904.1	0.0736

Acquisition Time (sec)	1.3631	Comment	P Mears 0913-081 ejt-prm95 prod xtals mCARBON C6D6 (E:\bruk400service_data\2013\Sep) Administrator 13				
Date	20 Sep 2013 10:46:40	Date Stamp	20 Sep 2013 10:46:40				
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Frequency (MHz)	100.64	Nucleus	13C	Number of Transients	6144	Origin	AV400_S
Original Points Count	32768	Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	2050.00	SW(cyclical) (Hz)	24038.46	Solvent	BENZENE-d6	Spectrum Offset (Hz)	10120.3975
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C)	21.700		



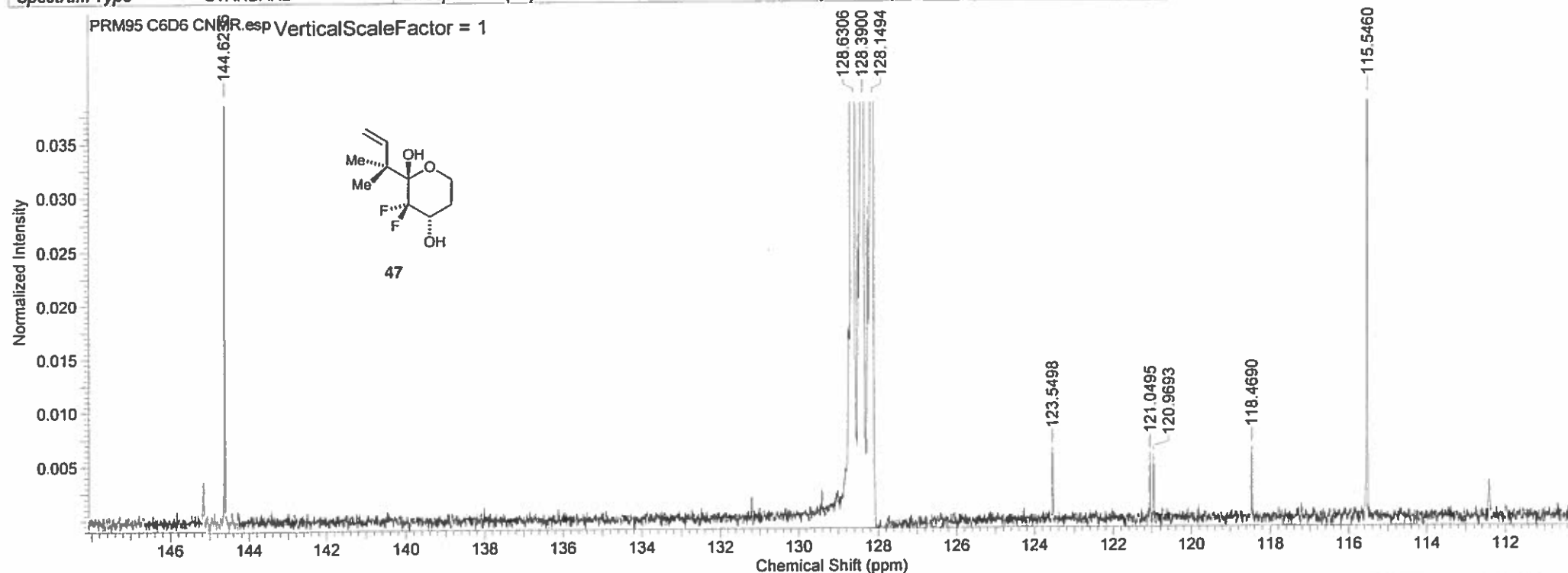
No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	21.69	2183.3	0.0226	4	24.19	2434.9	0.0275	7	32.30	3250.6	0.0363	10	67.85	6828.4	0.0191
2	21.75	2188.4	0.0232	5	26.05	2622.0	0.0258	8	46.46	4676.0	0.0235	11	68.06	6848.9	0.0237
3	24.13	2428.3	0.0351	6	32.24	3244.8	0.0365	9	58.67	5904.1	0.0736	12	68.07	6850.4	0.0235
												13	68.17	6860.7	0.0255
												14	68.27	6870.9	0.0183

Acquisition Time (sec)	1.3631	Comment	P Mears 0913-081 ejt-prm95 prod xtals mCARBON C6D6 (E:\bruk400service_data\2013\Sep) Administrator 13				
Date	20 Sep 2013 10:46:40	Date Stamp	20 Sep 2013 10:46:40				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400service_data\2013\Sep\data\Administrator\nmr\2013-09-20-Administrator-13\11\fid						
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients	6144	Origin	AV400_S
Original Points Count	32768	Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	2050.00	SW(cyclical) (Hz)	24038.46	Solvent	BENZENE-d6	Spectrum Offset (Hz)	10120.3975
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C)	21.700		



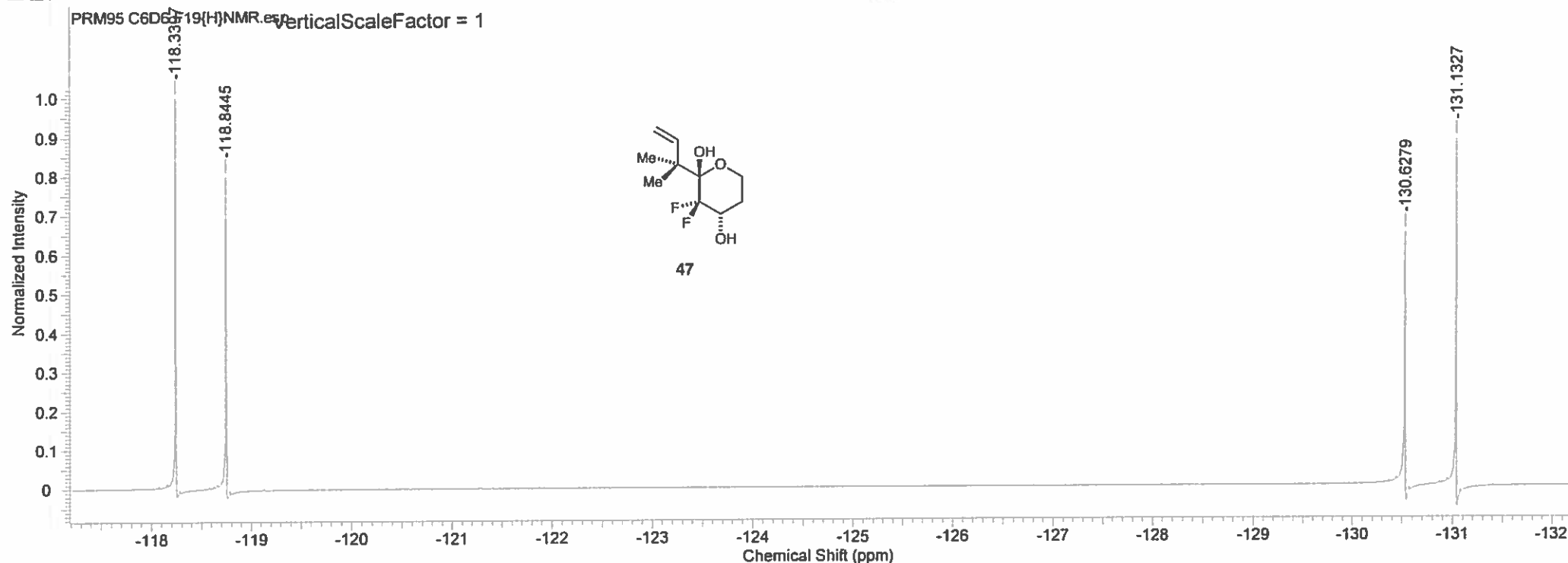
No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	21.69	2183.3	0.0226	5	26.05	2622.0	0.0258	9	58.67	5904.1	0.0736	13	68.17	6860.7	0.0255
2	21.75	2188.4	0.0232	6	32.24	3244.8	0.0365	10	67.85	6828.4	0.0191	14	68.27	6870.9	0.0183
3	24.13	2428.3	0.0351	7	32.30	3250.6	0.0363	11	68.06	6848.9	0.0237	15	98.16	9878.7	0.0092
4	24.19	2434.9	0.0275	8	46.46	4676.0	0.0235	12	68.07	6850.4	0.0235	16	98.39	9902.2	0.0105
												17	98.46	9908.8	0.0069
												18	98.70	9933.0	0.0081

Acquisition Time (sec)	1.3631	Comment	P Mears 0913-081 ejl-pm95 prod xtals mCARBON C6D6 (E:\bruk400service_data\2013\Sep) Administrator 13		
Date	20 Sep 2013 10:46:40	Date Stamp	20 Sep 2013 10:46:40		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400service_data\2013\Sep\data\Administrator\nmr\2013-09-20-Administrator-13\11Vid				
Frequency (MHz)	100.64	Nucleus	13C	Number of Transients	6144
Original Points Count	32768	Owner	Administrator	Points Count	32768
Receiver Gain	2050.00	SW(cyclical) (Hz)	24038.46	Solvent	BENZENE-d6
Spectrum Type	STANDARD	Sweep Width (Hz)	24037.73	Temperature (degree C)	21.700
				Origin	AV400 S
				Pulse Sequence	zgpg30
				Spectrum Offset (Hz)	10120.3975



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	21.69	2183.3	0.0226	7	32.30	3250.6	0.0363	13	68.17	6860.7	0.0255	19	115.55	11628.3	0.0593	25	128.27	12909.2	0.0277
2	21.75	2188.4	0.0232	8	46.46	4676.0	0.0235	14	68.27	6870.9	0.0183	20	118.47	11922.5	0.0063	26	128.39	12920.9	1.0000
3	24.13	2428.3	0.0351	9	58.67	5904.1	0.0736	15	98.16	9878.7	0.0092	21	120.97	12174.1	0.0056	27	128.51	12932.6	0.0251
4	24.19	2434.9	0.0275	10	67.85	6828.4	0.0191	16	98.39	9902.2	0.0105	22	121.05	12182.2	0.0058	28	128.63	12945.1	0.9899
5	26.05	2622.0	0.0258	11	68.06	6848.9	0.0237	17	98.46	9908.8	0.0069	23	123.55	12433.8	0.0063	29	144.62	14554.6	0.0523
6	32.24	3244.8	0.0365	12	68.07	6850.4	0.0235	18	98.70	9933.0	0.0081	24	128.15	12896.7	0.9879				

Acquisition Time (sec)	0.5767	Comment	EJT-PRM95 Product data m19FCPD C6D6 /op/oldbruk500data.11vii11/2013/Sep ejl 11				
Date	20 Sep 2013 10:40:16	Date Stamp	20 Sep 2013 10:40:16				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2013\SEP\DATA\EJT\NMR\2013-09-20-EJT-11\12\PDATA\111R						
Frequency (MHz)	470.59	Nucleus	19F	Number of Transients	16	Origin	spect
Original Points Count	65536	Owner	nmr1	Points Count	65536	Pulse Sequence	zgfhiggn
Receiver Gain	32.00	SW(cyclical) (Hz)	113636.37	Solvent	BENZENE-d6	Spectrum Offset (Hz)	-47059.0234
Spectrum Type	STANDARD	Sweep Width (Hz)	113634.63	Temperature (degree C)	27.000		

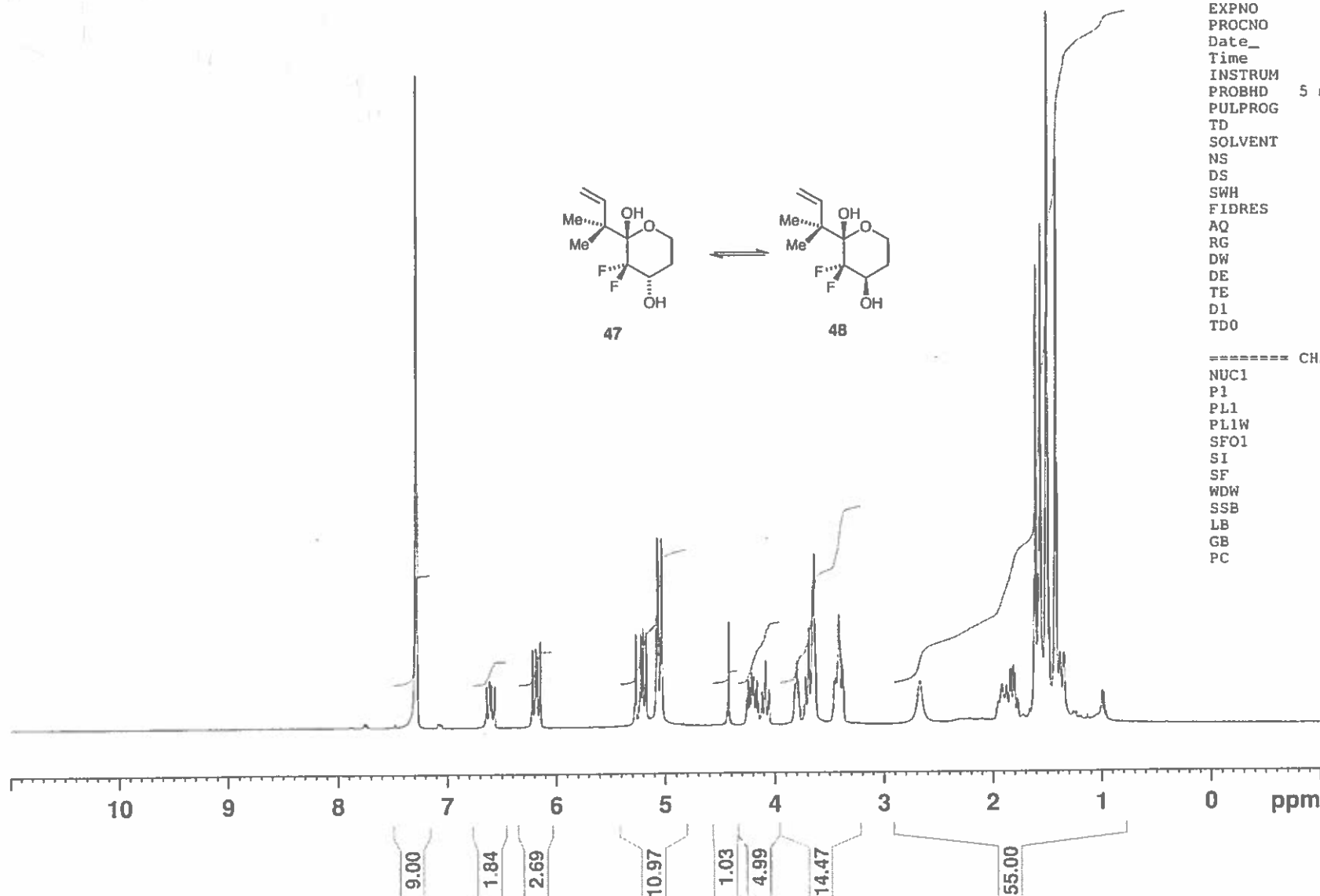
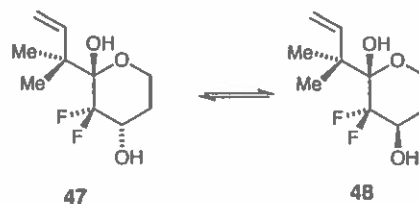


EJT-PRM95 prod crystals over weekend equilibrated  
mPROTON C6D6 {e:\bruk400data\2013\Sep} ejt 37



NAME 2013-09-23-ejt-37  
EXPNO 10  
PROCNO 1  
Date\_ 20130923  
Time 11.40  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT C6D6  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 101  
DW 60.500 usec  
DE 8.45 usec  
TE 295.1 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 14.50 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



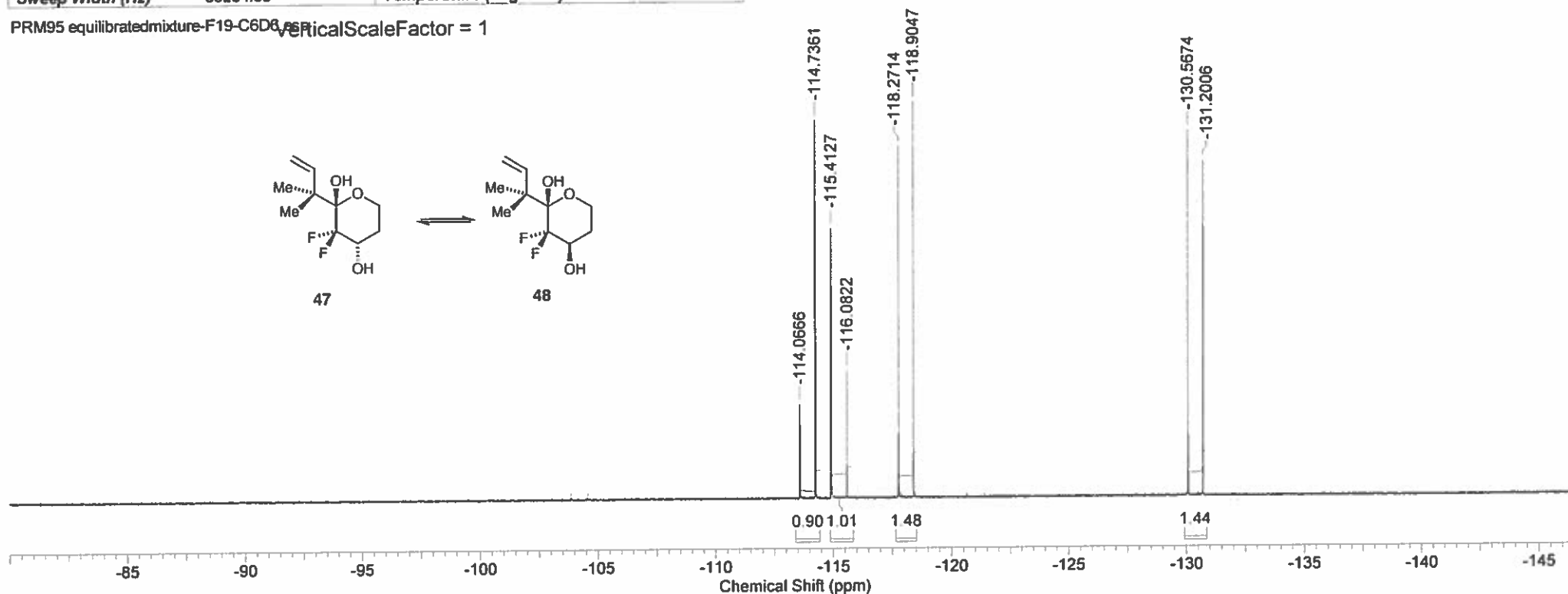
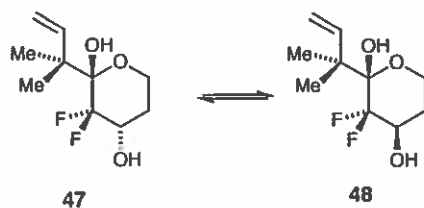


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Acquisition Time (sec)	0.7340	Comment	EJT-PRM95 prod crystals over weekend equilibrated mF19CPD C6D6 (e:\bruk400data\2013\Sep) ejt 37				
Date	23 Sep 2013 11:42:08	Date Stamp	23 Sep 2013 11:42:08				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmr\data\bruk400data\2013\Sep\data\ejt\nmr\2013-09-23-ejt-37\11\fid					Frequency (MHz)	376.50
Nucleus	19F	Number of Transients	16	Origin	AV400	Original Points Count	65536
Owner	Administrator	Points Count	65536	Pulse Sequence	zgig	Receiver Gain	4100.00
SW(cyclical) (Hz)	89285.71	Solvent	BENZENE-d6	Spectrum Offset (Hz)	-37649.5977	Spectrum Type	STANDARD
Sweep Width (Hz)	89284.35	Temperature (degree C)	22.300				

PRM95 equilibrated mixture-F19-C6D6-25F VerticalScaleFactor = 1



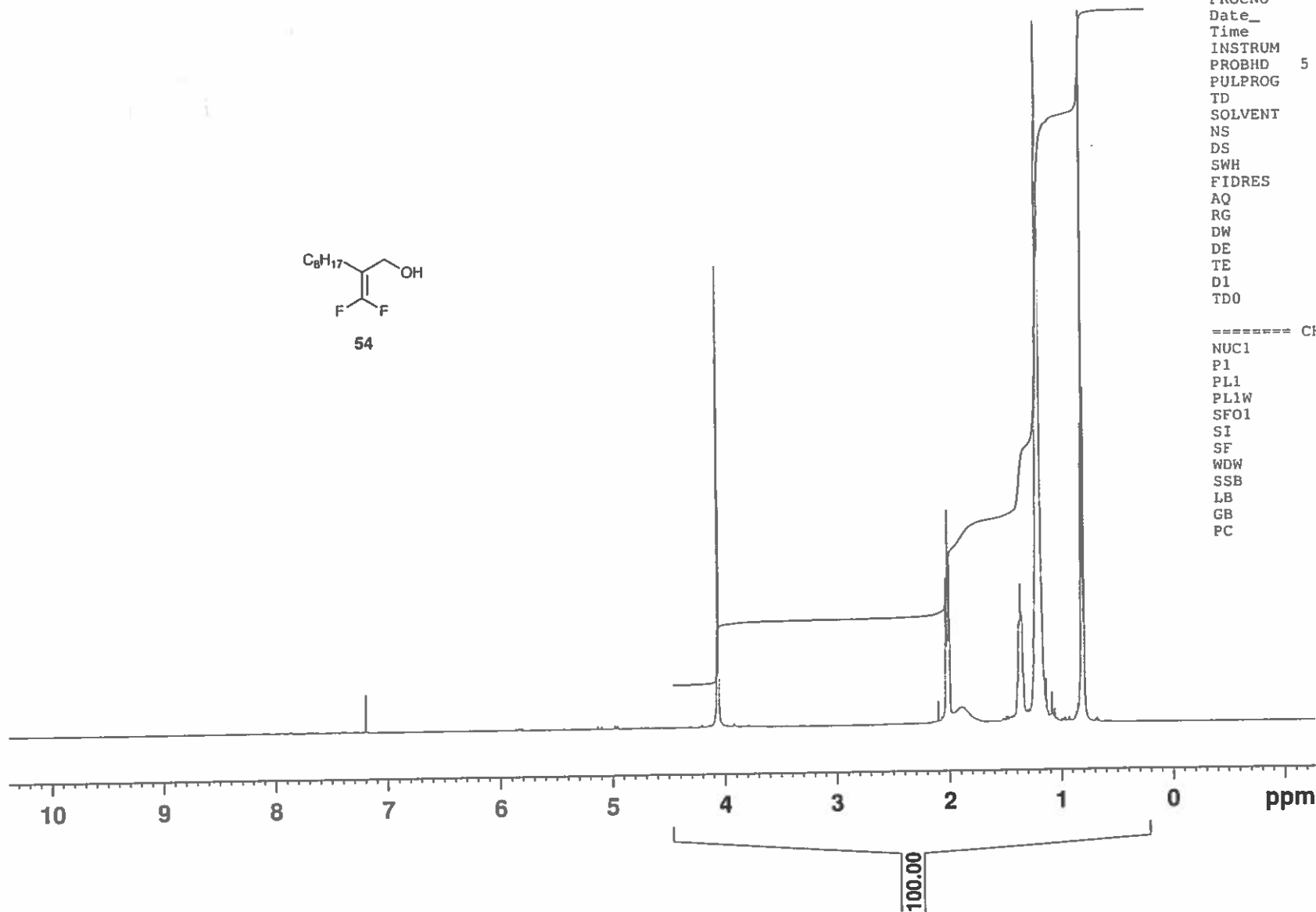
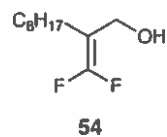
No.	(ppm)	Value	Absolute Value	Non-Negative Value
1	3493 .. -1301.44295704	2.36217000e+7	1.44295704	
2	0336 .. -1161.48149800	2.42526280e+7	1.48149800	
3	2540 .. -1151.00809872	1.65029200e+7	1.00809872	
4	9284 .. -1130.89820582	1.47039360e+7	0.89820582	

EJT-PRM115 product data allylic alcohol  
mPROTONnight CDCl3 /opt/oldbruk500data.11vii11/2014/Jan ejt 3

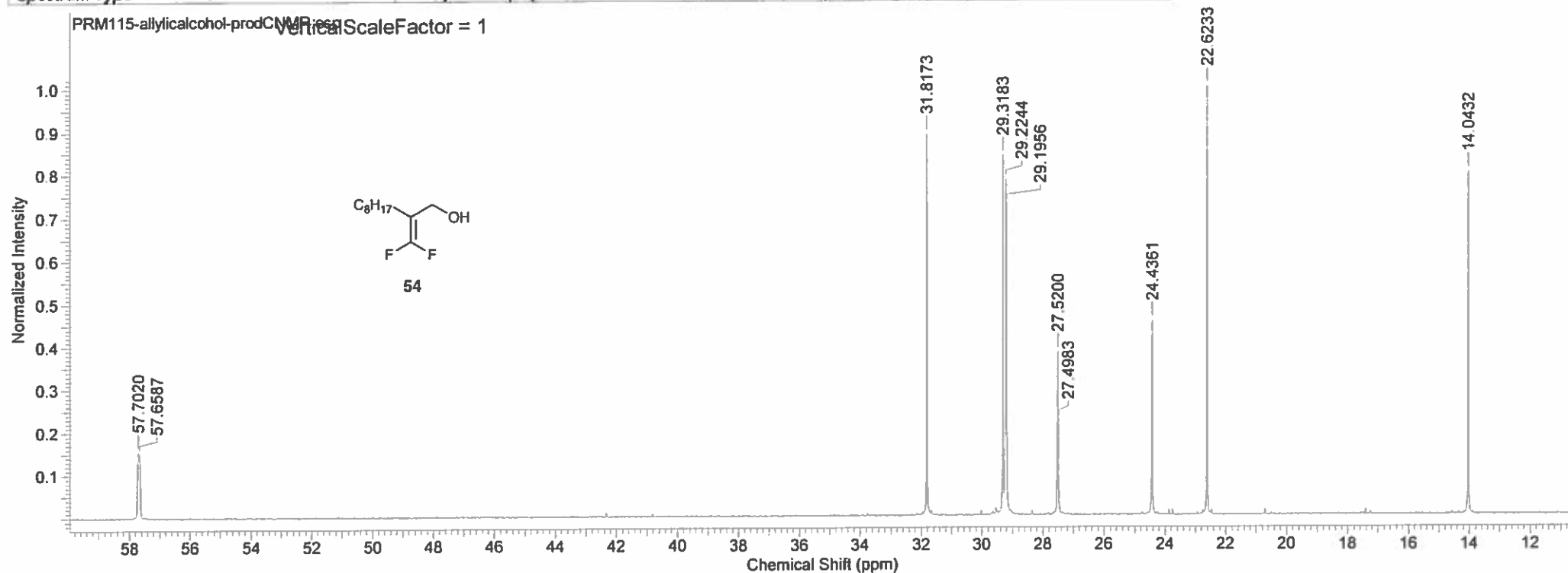


NAME 2014-01-12-ejt-3  
EXPNO 11  
PROCNO 1  
Date\_ 20140112  
Time 17.54  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 16  
DW 48.400 usec  
DE 13.00 usec  
TE 300.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -0.10 dB  
PL1W 26.21803665 W  
SF01 500.1330885 MHz  
SI 32768  
SF 500.1300437 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

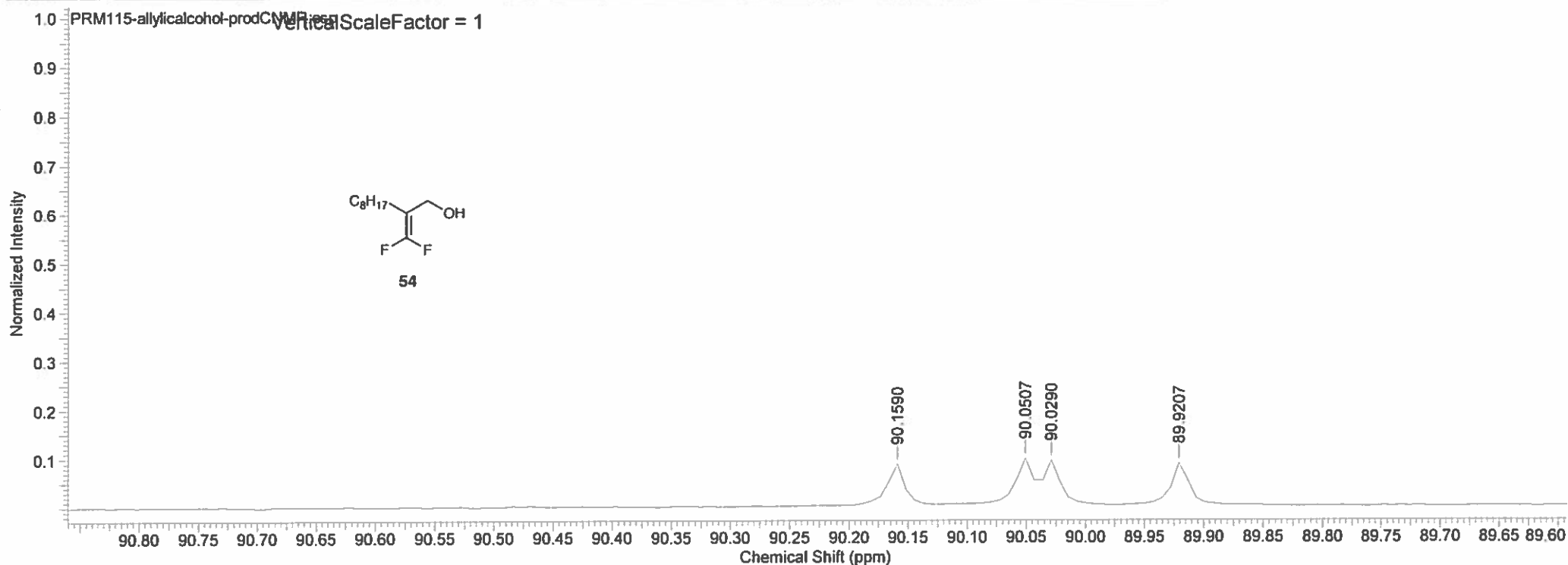


Acquisition Time (sec)	1.1010	Comment	EJT-PRM115 product data allylic alcohol mCARBONnight CDCl3 /opt/oldbruk500data.11vii11/2014/Jan ejt 3			
Date	12 Jan 2014 17:50:56	Date Stamp	12 Jan 2014 17:50:56			
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2014\JANDATA\EJTNMR\2014-01-12-EJT-3\10\PDATA\111R					
Frequency (MHz)	125.76	Nucleus	13C	Number of Transients	3072	Origin spect
Original Points Count	32768	Owner	vnmr1	Points Count	32768	Pulse Sequence zgpg30
Receiver Gain	512.00	SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Spectrum Offset (Hz) 12571.1670
Spectrum Type	STANDARD	Sweep Width (Hz)	29761.00	Temperature (degree C)	20.099	



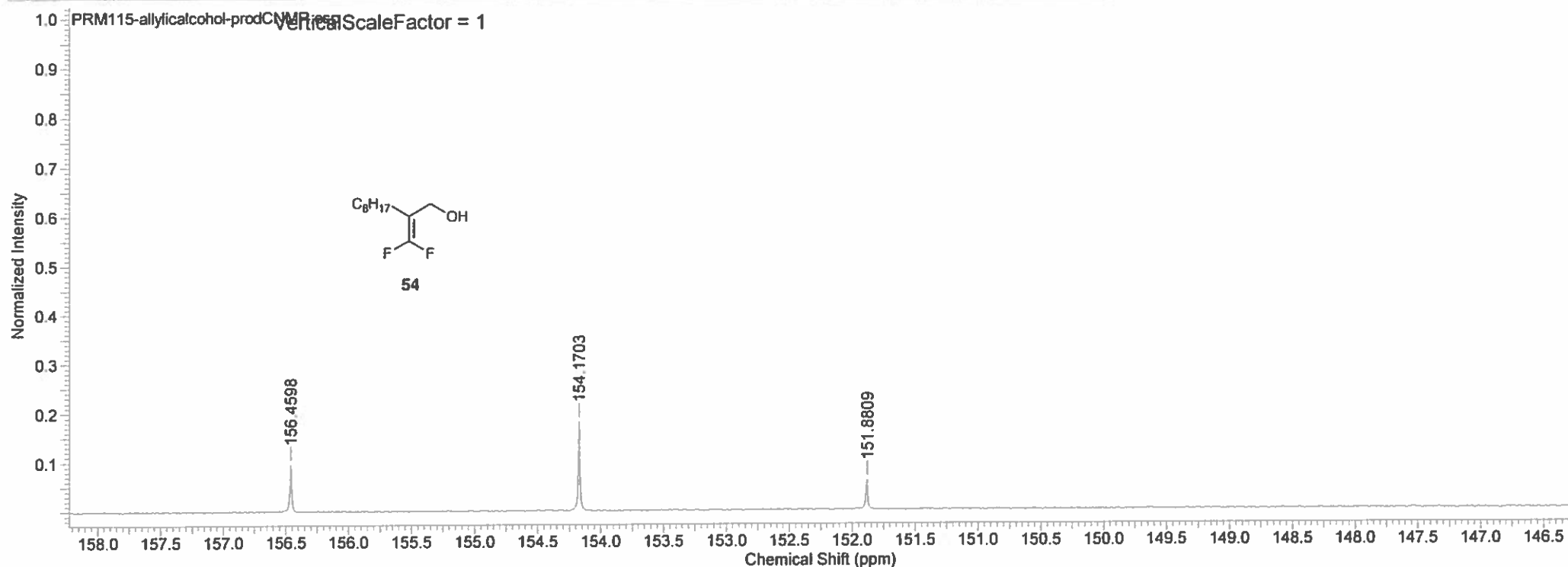
No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	14.04	1766.0	0.7988	4	27.50	3458.1	0.2238	7	29.22	3675.2	0.7842	10	57.66	7251.0	0.1504
2	22.62	2845.1	1.0000	5	27.52	3460.9	0.3816	8	29.32	3687.0	0.8407	11	57.70	7256.5	0.1568
3	24.44	3073.0	0.4542	6	29.20	3671.6	0.7282	9	31.82	4001.3	0.8907				

Acquisition Time (sec)	1.1010	Comment	EJT-PRM115 product data allylic alcohol mCARBONnight CDCl3 /opt/oldbruk500data.11vii1/2014/Jan ejt 3				
Date	12 Jan 2014 17:50:56	Date Stamp	12 Jan 2014 17:50:56				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2014\JAN\DATA\EJT\NMR\2014-01-12-EJT-3\10\PDATA\111R						
Frequency (MHz)	125.76	Nucleus	13C	Number of Transients	3072	Origin	spect
Original Points Count	32768	Owner	vnmr1	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	512.00	SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	12571.1670
Spectrum Type	STANDARD	Sweep Width (Hz)	29761.00	Temperature (degree C)	20.099		



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	14.04	1766.0	0.7988	4	27.50	3458.1	0.2238	7	29.22	3675.2	0.7842	10	57.66	7251.0	0.1504
2	22.62	2845.1	1.0000	5	27.52	3460.9	0.3816	8	29.32	3687.0	0.8407	11	57.70	7256.5	0.1568
3	24.44	3073.0	0.4542	6	29.20	3671.6	0.7282	9	31.82	4001.3	0.8907	12	89.92	11308.2	0.0872
												13	90.03	11321.9	0.0938
												14	90.05	11324.6	0.0980
												15	90.16	11338.2	0.0866

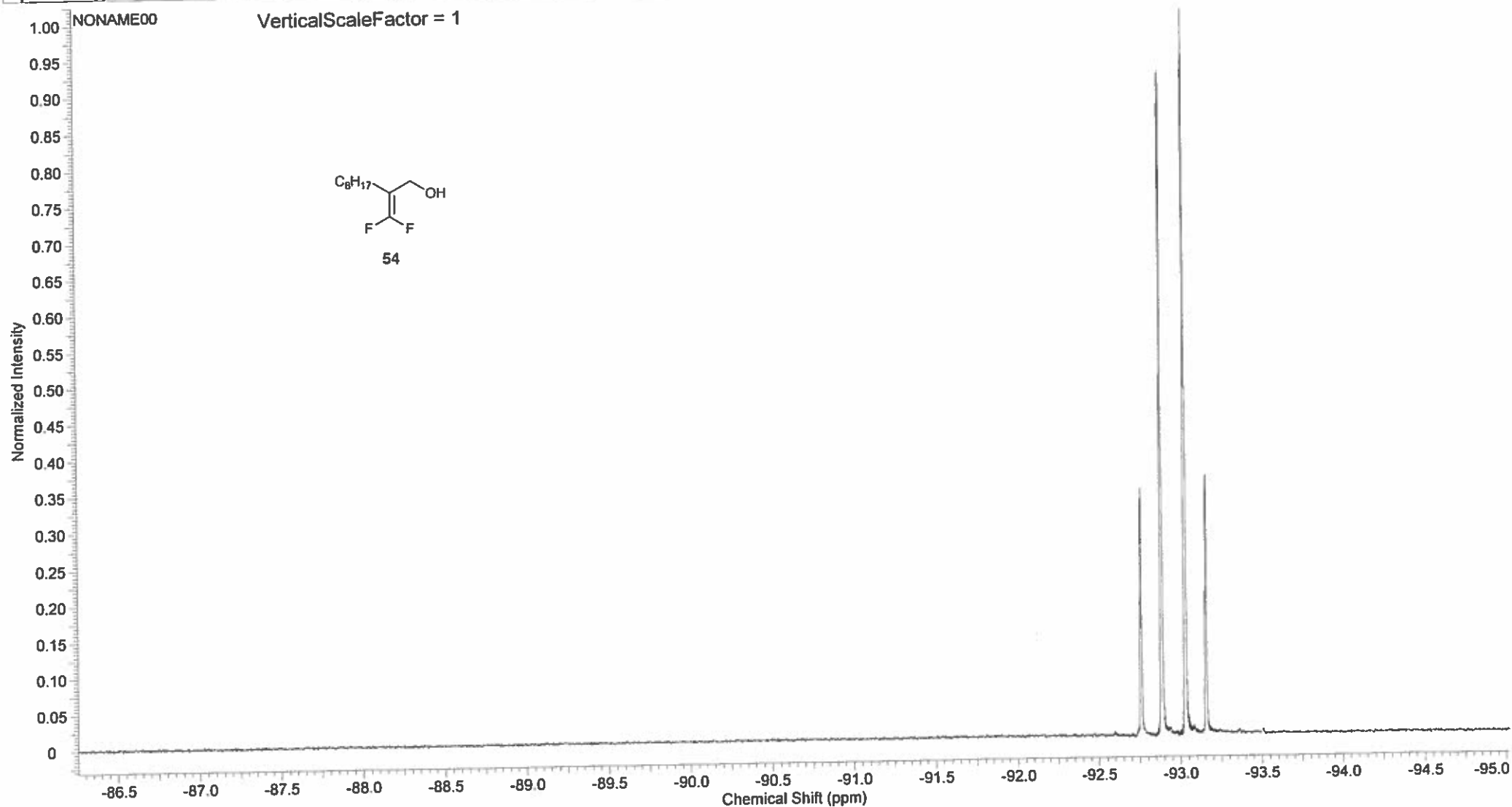
Acquisition Time (sec)	1.1010	Comment	EJT-PRM115 product data allylic alcohol mCARBONnight CDCl3 /opt/oldbruk500data.11vii1/2014/Jan ejt 3				
Date	12 Jan 2014 17:50:56	Date Stamp	12 Jan 2014 17:50:56				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2014\JAN\DATA\EJT\NMR\2014-01-12-EJT-3\10\PDAT\111R						
Frequency (MHz)	125.76	Nucleus	13C	Number of Transients	3072	Origin	spect
Original Points Count	32768	Owner	vnmr1	Points Count	32768	Pulse Sequence	zgpg30
Receiver Gain	512.00	SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	12571.1670
Spectrum Type	STANDARD	Sweep Width (Hz)	29761.00	Temperature (degree C)	20.099		



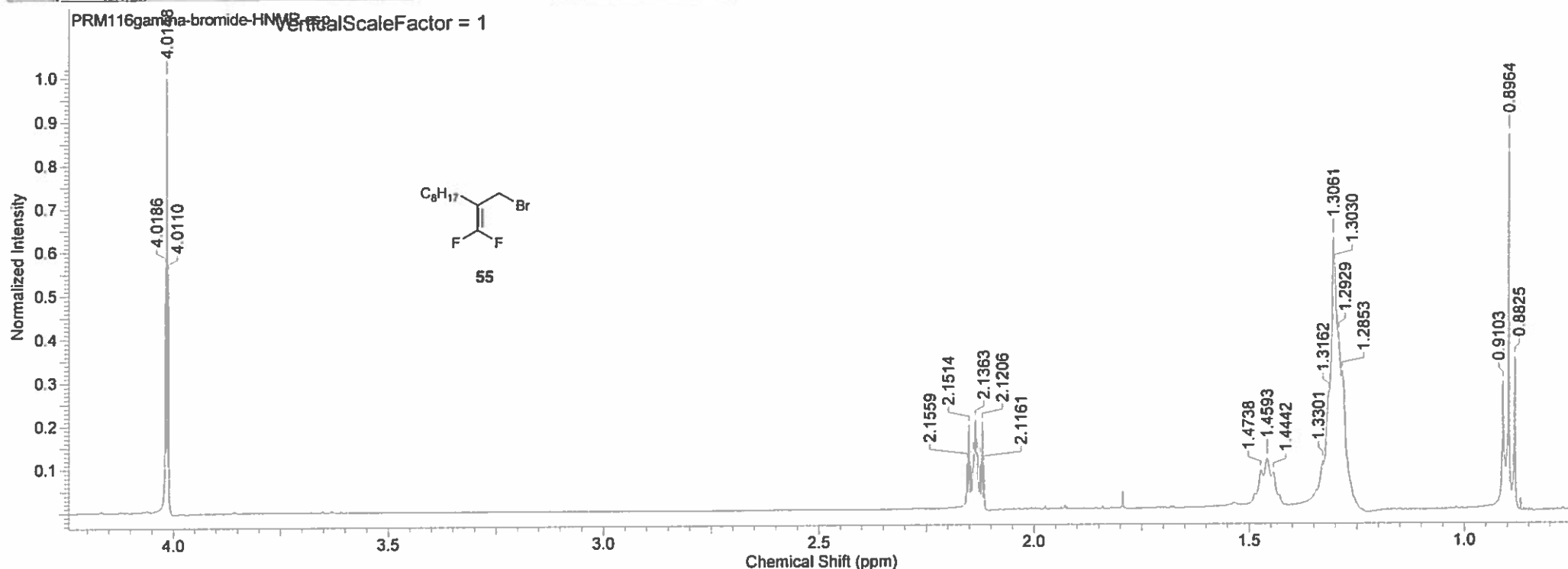
No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	14.04	1766.0	0.7988	5	27.52	3460.9	0.3816	9	31.82	4001.3	0.8907	13	90.03	11321.9	0.0938
2	22.62	2845.1	1.0000	6	29.20	3671.6	0.7282	10	57.66	7251.0	0.1504	14	90.05	11324.6	0.0980
3	24.44	3073.0	0.4542	7	29.22	3675.2	0.7842	11	57.70	7256.5	0.1568	15	90.16	11338.2	0.0866
4	27.50	3458.1	0.2238	8	29.32	3687.0	0.8407	12	89.92	11308.2	0.0872	16	151.88	19100.2	0.0602

No.	(ppm)	(Hz)	Height
17	154.17	19388.1	0.1808
18	156.46	19676.0	0.0960

Acquisition Time (sec)	0.7340	Comment	EJT-PRM115E prod frags 94mg mF19CPD CDCl3 (e:\bruk400data\2013\Dec) ejt 9				
Date	18 Dec 2013 12:50:08	Date Stamp	18 Dec 2013 12:50:08				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400DATA\2013\DEC\DATA\EJT\NMR\2013-12-18-EJT-9\11\PDATA\111R						
Frequency (MHz)	376.50	Nucleus	19F	Number of Transients	16	Origin	AV400
Original Points Count	65536	Owner	Administrator	Points Count	262144	Pulse Sequence	zgig
Receiver Gain	4100.00	SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37649.5977
Spectrum Type	STANDARD	Sweep Width (Hz)	89285.37	Temperature (degree C)	20.700		

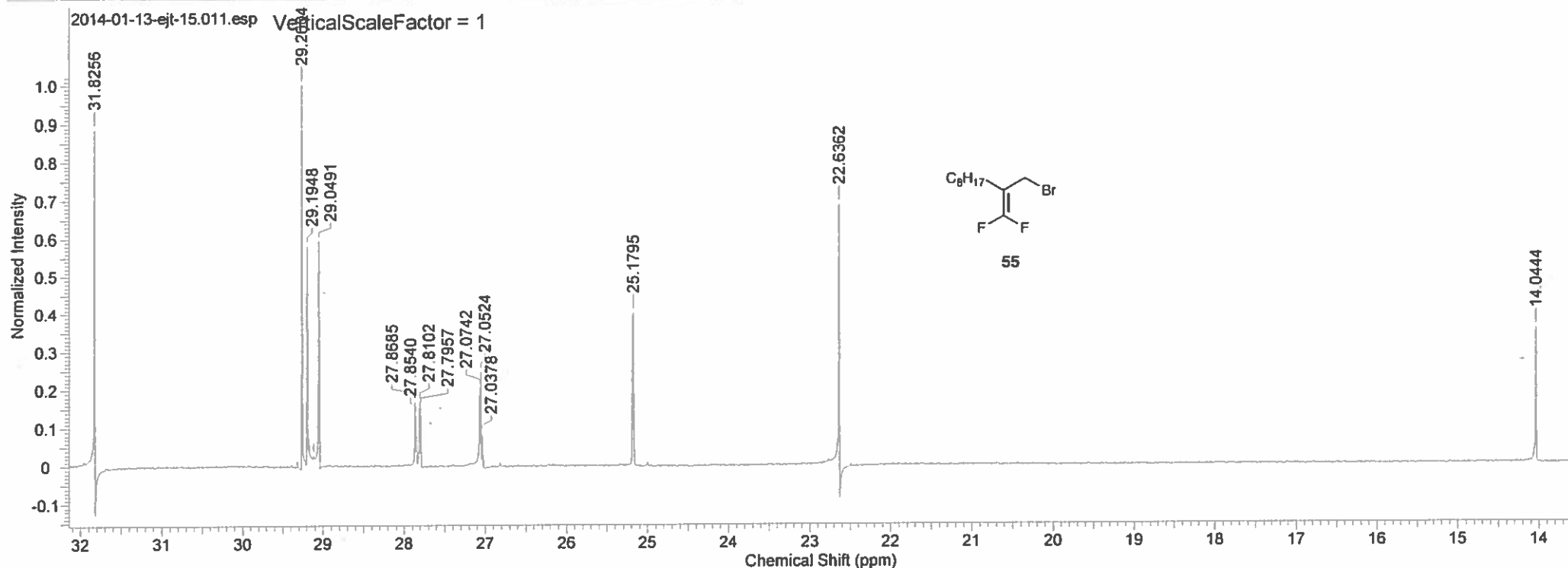


Acquisition Time (sec)	3.1719	Comment	EJT-PRM116 gamma-bromide data mPROTONnight CDCl3 (F:\bruk500_b_data\2014\Jan\ejt 15				
Date	13 Jan 2014 16:08:32	Date Stamp	13 Jan 2014 16:08:32				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500\data\2014\Jan\data\ejt\nmr\2014-01-13-ejt-15\fid				Frequency (MHz)	500.13	
Nucleus	1H	Number of Transients	16	Origin	spect	Original Points Count	32768
Owner	Administrator	Points Count	32768	Pulse Sequence	zg30	Receiver Gain	20.20
SW(cyclical) (Hz)	10330.58	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	3079.6614	Spectrum Type	STANDARD
Sweep Width (Hz)	10330.26	Temperature (degree C)	25.000				



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	0.88	441.4	0.3473	6	1.30	651.7	0.5638	11	1.46	729.8	0.1155	16	2.13	1066.2	0.1312
2	0.90	448.3	0.8616	7	1.31	653.2	0.6235	12	1.47	737.1	0.0883	17	2.13	1067.2	0.1312
3	0.91	455.2	0.2924	8	1.32	658.3	0.2676	13	2.12	1058.3	0.1030	18	2.14	1068.4	0.2079
4	1.29	642.8	0.3156	9	1.33	665.2	0.1092	14	2.12	1060.6	0.2010	19	2.14	1070.6	0.1279
5	1.29	646.6	0.4054	10	1.44	722.3	0.0831	15	2.12	1062.8	0.1131	20	2.15	1073.8	0.1106
												21	2.15	1076.0	0.1937
												22	2.16	1078.2	0.1086
												23	4.01	2006.0	0.5535
												24	4.01	2007.9	1.0000
												25	4.02	2009.8	0.5684

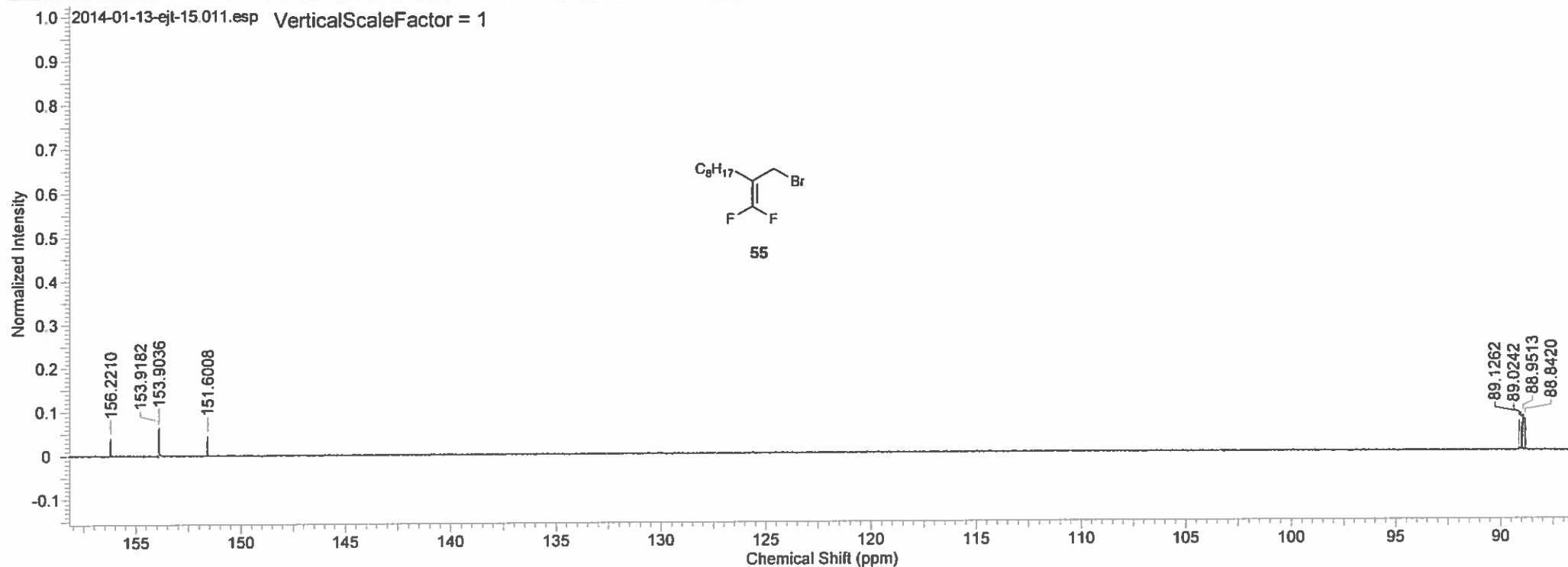
Acquisition Time (sec)	1.0912	Comment	EJT-PRM116 gamma-bromide data mCARBONnight CDCl3 (F:\bruk500_b_data\2014\Jan) ejt 15		
Date	13 Jan 2014 20:50:08	Date Stamp	13 Jan 2014 20:50:08		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500bdata\2014\Jan\data\ejt15\15111Vid			Frequency (MHz)	125.76
Nucleus	13C	Number of Transients	3096	Origin	spect
Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	30030.03	Solvent	CHLOROFORM-d	Receiver Gain	4597.60
Sweep Width (Hz)	30029.11	Temperature (degree C)	25.000	Spectrum Offset (Hz)	12574.2715
				Spectrum Type	STANDARD



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	14.04	1766.2	0.3511	6	27.07	3404.8	0.2039	11	29.05	3653.1	0.5937	16	88.84	11172.6	0.0722
2	22.64	2846.7	0.6830	7	27.80	3495.5	0.1549	12	29.11	3661.4	0.0268	17	88.95	11186.3	0.0809
3	25.18	3166.5	0.4006	8	27.81	3497.4	0.1686	13	29.19	3671.5	0.5800	18	89.02	11195.5	0.0630
4	27.04	3400.2	0.0841	9	27.85	3502.9	0.1310	14	29.26	3679.7	1.0000	19	89.13	11208.3	0.0664
5	27.05	3402.0	0.2455	10	27.87	3504.7	0.1670	15	31.83	4002.3	0.8875	20	151.60	19065.0	0.0455
												21	153.90	19354.6	0.0672
												22	153.92	19356.4	0.0605
												23	156.22	19646.0	0.0411

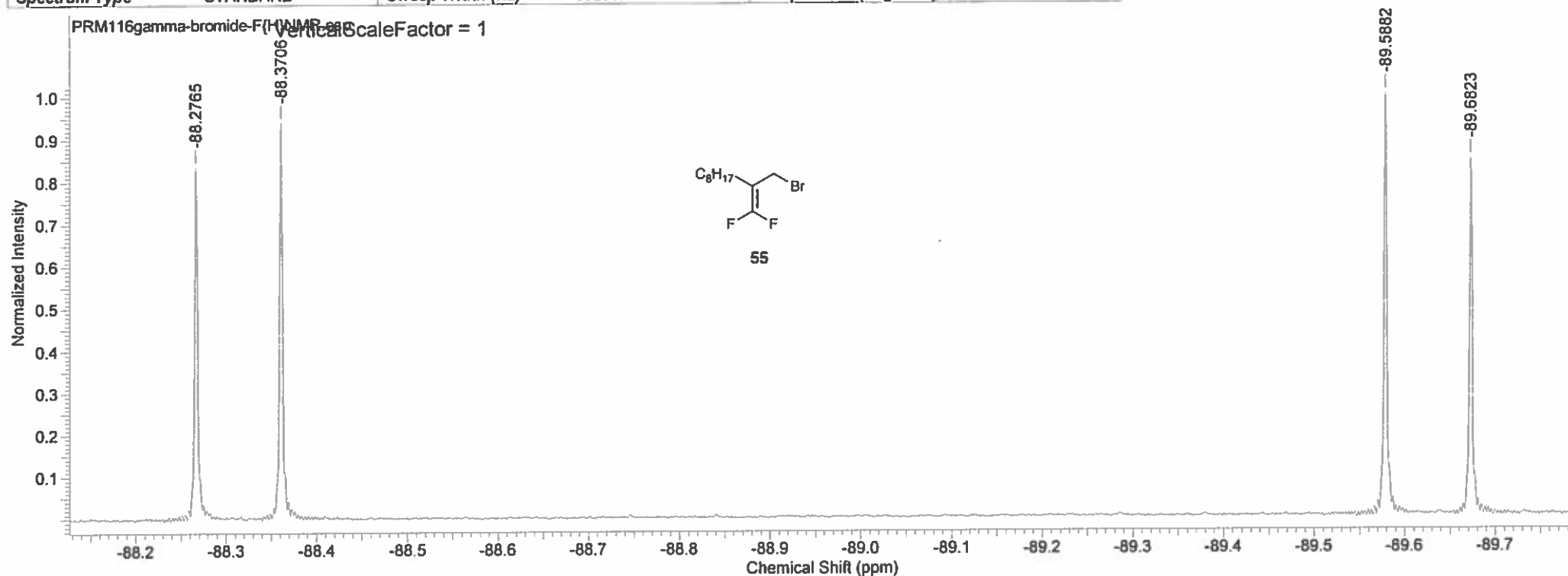


Acquisition Time (sec)	1.0912	Comment	EJT-PRM116 gamma-bromide data mCARBONnight CDCl3 (F:\bruk500_b_data\2014\Jan\ejt 15		
Date	13 Jan 2014 20:50:08	Date Stamp	13 Jan 2014 20:50:08		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500bdata\2014\Jan\data\ejt15\15-01-13-ejt-15\11\fid			Frequency (MHz)	125.76
Nucleus	13C	Number of Transients	3096	Origin	spect
Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	30030.03	Solvent	CHLOROFORM-d	Receiver Gain	4597.60
Sweep Width (Hz)	30029.11	Temperature (degree C)	25.000	Spectrum Offset (Hz)	12574.2715
				Spectrum Type	STANDARD



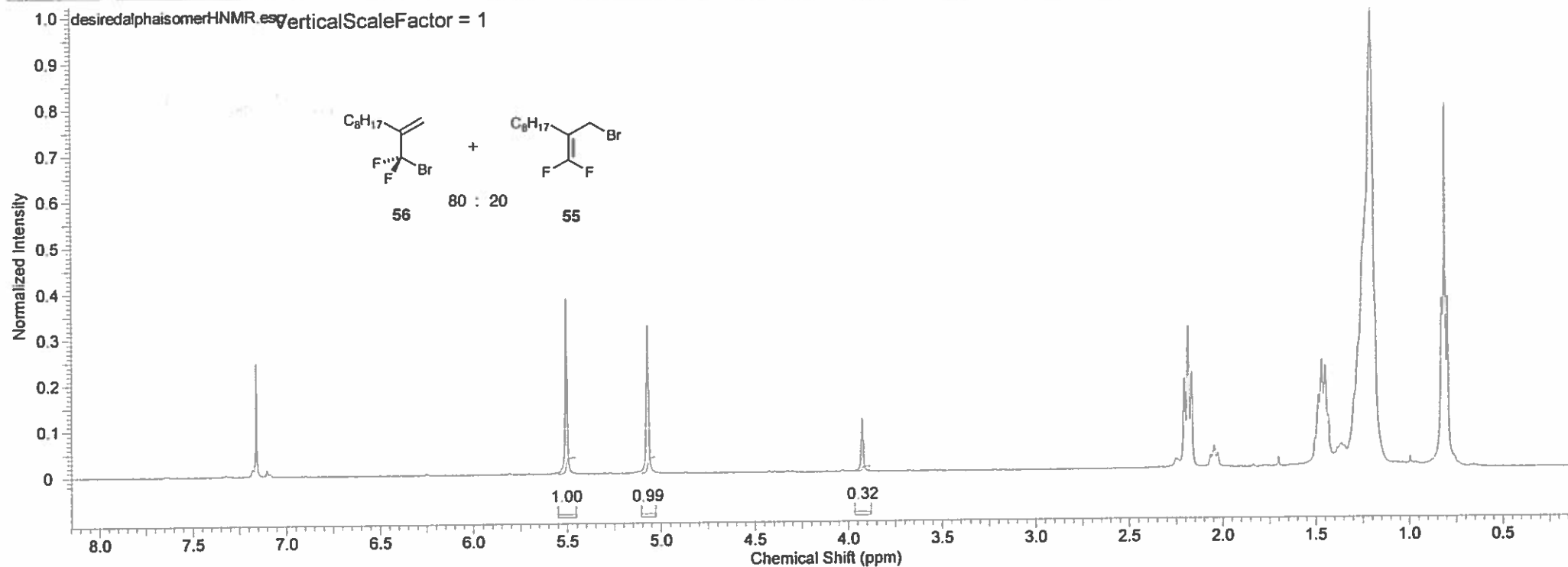
No.	(ppm)	(Hz)	Height
1	88.84	11172.6	0.0722
2	88.95	11186.3	0.0809
3	89.02	11195.5	0.0630
4	89.13	11208.3	0.0664
5	151.60	19065.0	0.0455
6	153.90	19354.6	0.0672
7	153.92	19356.4	0.0605
8	156.22	19646.0	0.0411

Acquisition Time (sec)	0.7340	Comment	EJT-PRM116 f3+4 117mg mF19CPD CDCl3 (e:\bruk400data\2014\Jan) ejt 42				
Date	13 Jan 2014 12:33:04	Date Stamp	13 Jan 2014 12:33:04				
File Name	\\ss7a.ds.man.ac.uk\vol5\USERS\SNMRDATA\BRUK400DATA\2014\JAN\DATA\EJTWNR\2014-01-13-EJT-42\11\PDAT\111R						
Frequency (MHz)	376.50	Nucleus	19F	Number of Transients	16	Origin	AV400
Original Points Count	65536	Owner	Administrator	Points Count	262144	Pulse Sequence	zgig
Receiver Gain	4100.00	SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37649.5977
Spectrum Type	STANDARD	Sweep Width (Hz)	89285.37	Temperature (degree C)	20.800		



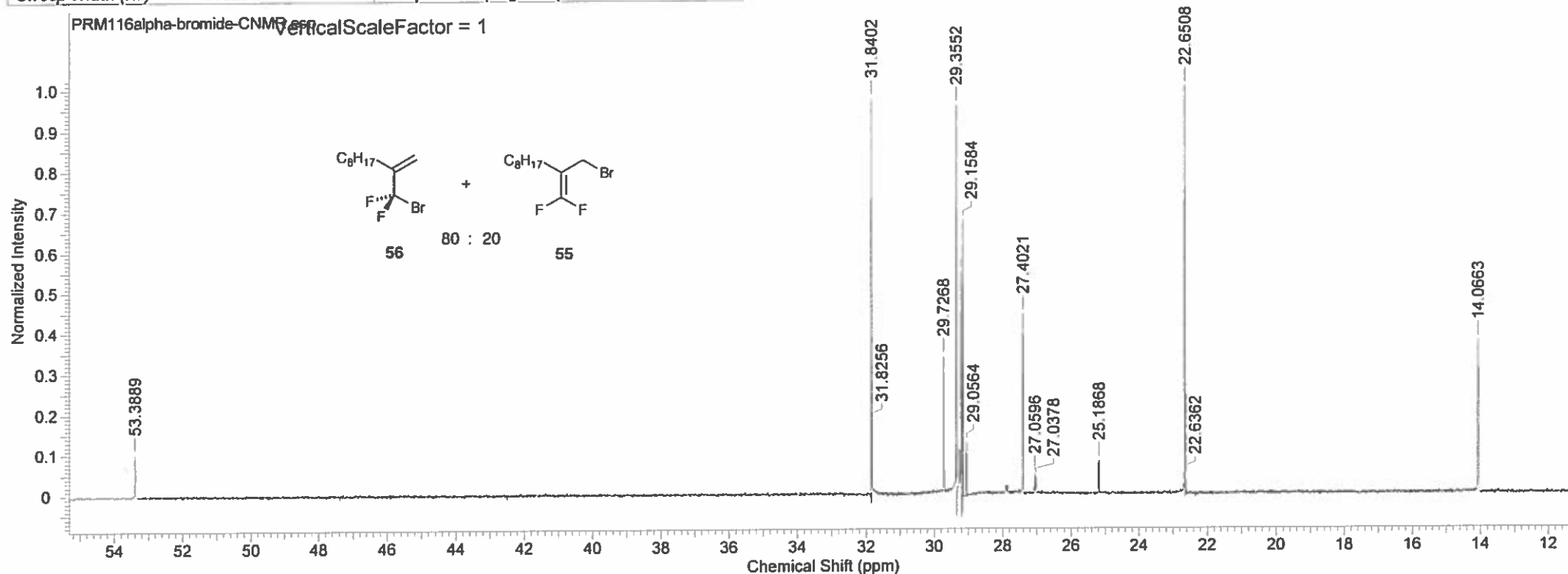
No.	(ppm)	(Hz)	Height
1	-89.68	-33765.3	0.8449
2	-89.59	-33729.8	1.0000
3	-88.37	-33271.4	0.9398
4	-88.28	-33236.0	0.8364

Acquisition Time (sec)	3.9649	Comment	EJT-PRM120 reflux o/n tol-d8 mPROTON CDCl3 (e:\bruk400data\2014\Jan) ejt 28				
Date	10 Jan 2014 10:46:24	Date Stamp	10 Jan 2014 10:46:24				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400DATA\2014\JAN\DATA\EJT\NMR\2014-01-10-EJT-28\10\PDATA\1\1R						
Frequency (MHz)	400.13	Nucleus	1H	Number of Transients	16	Origin	AV400
Original Points Count	32768	Owner	Administrator	Points Count	32768	Pulse Sequence	zg30b
Receiver Gain	128.00	SW(cyclical) (Hz)	8264.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	2421.3662
Spectrum Type	STANDARD	Sweep Width (Hz)	8264.21	Temperature (degree C)	20.400		



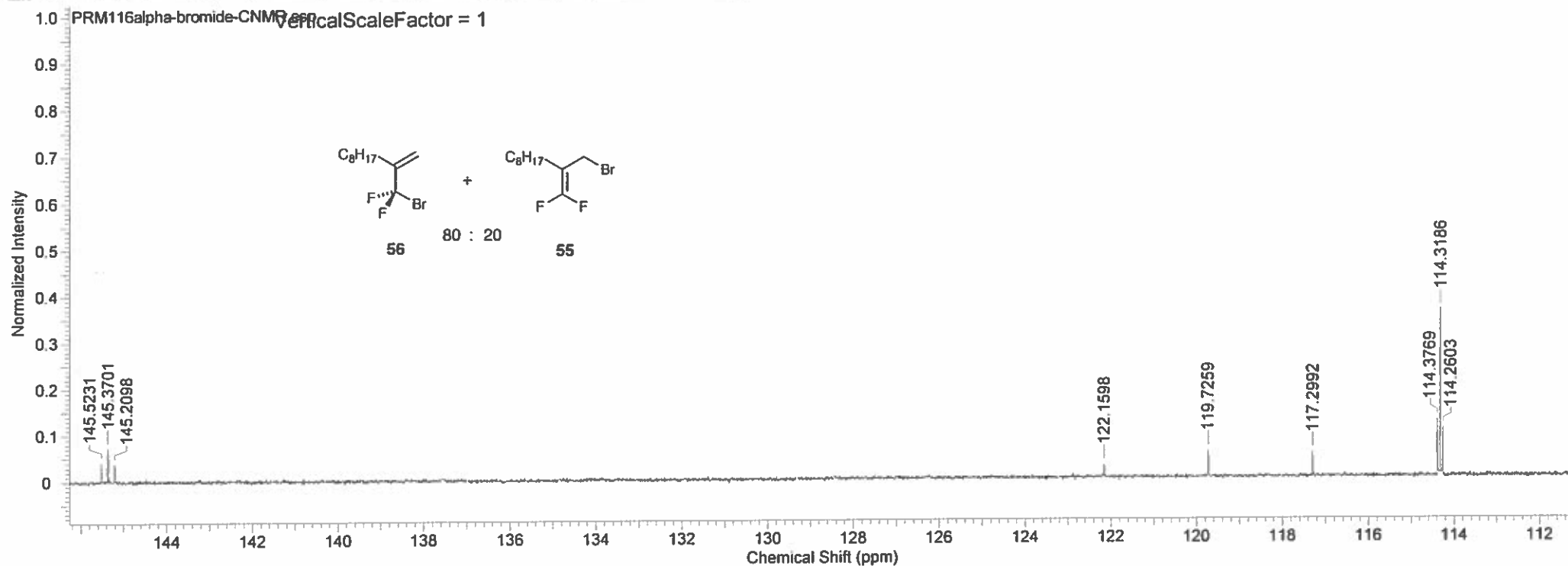
No.	(ppm)	Value	Absolute Value	Non-Negative Value
1	3791 .. 3.960	0.31848073	6.23530000e+6	0.31848073
2	0303 .. 5.100	0.99194330	1.94205280e+7	0.99194330
3	4545 .. 5.550	0.99989295	1.95761680e+7	0.99989295

Acquisition Time (sec)	1.0912	Comment	EJT-PRM116I alpha-bromide data mCARBONnight CDCI3 (F:\bruk500_b_data\2014Jan) ejt 16		
Date	14 Jan 2014 01:48:48	Date Stamp	14 Jan 2014 01:48:48		
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500bdata\2014Jan\data\ejt\nmr\2014-01-13-ejt-16\11\fid			Frequency (MHz)	125.76
Nucleus	<sup>13</sup> C	Number of Transients	3096	Origin	spect
Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	30030.03	Solvent	CHLOROFORM-d	Receiver Gain	4096.00
Sweep Width (Hz)	30029.11	Temperature (degree C)	25.000	Spectrum Offset (Hz)	12574.2715
				Spectrum Type	STANDARD



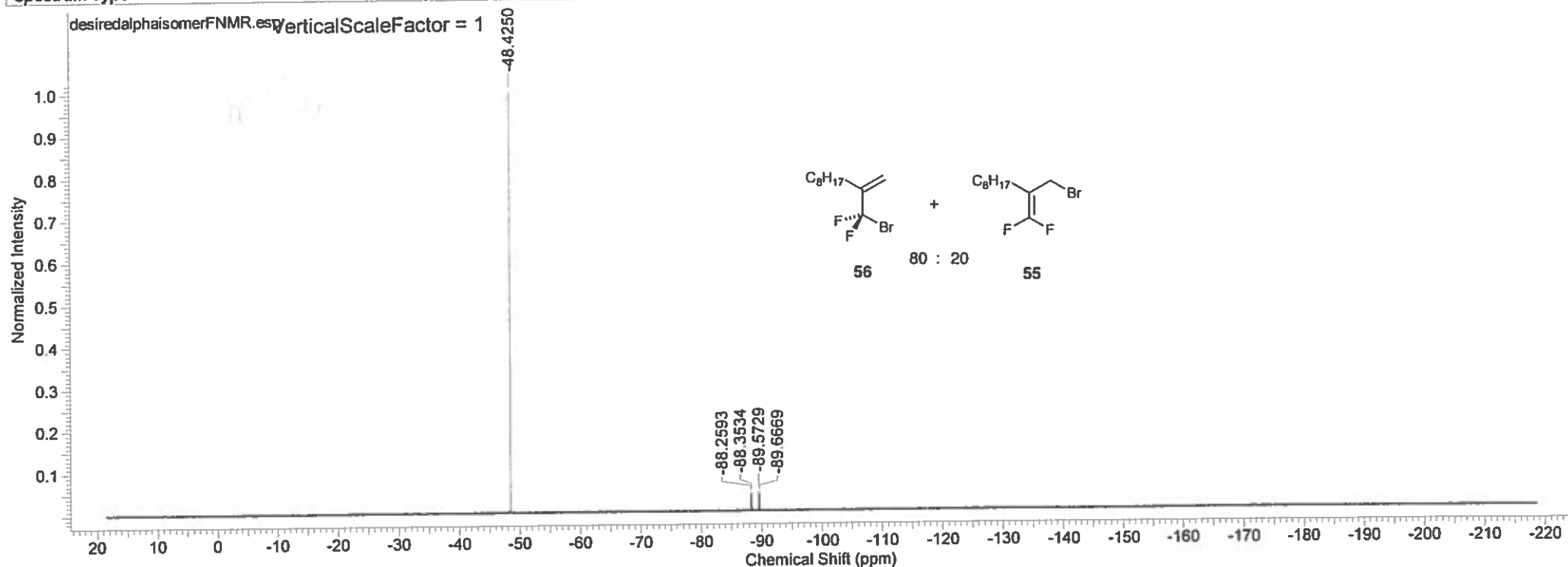
No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	14.07	1768.9	0.3709	6	27.06	3403.0	0.0437	11	29.27	3680.6	0.1341	16	53.39	6714.1	0.1016
2	22.64	2846.7	0.0414	7	27.40	3446.0	0.4405	12	29.36	3691.6	0.9545	17	114.26	14369.1	0.1056
3	22.65	2848.5	1.0000	8	29.06	3654.1	0.1222	13	29.73	3738.4	0.3351	18	114.32	14376.5	0.3611
4	25.19	3167.4	0.0763	9	29.16	3666.9	0.6740	14	31.83	4002.3	0.1738	19	114.38	14383.8	0.1226
5	27.04	3400.2	0.0358	10	29.21	3673.3	0.5448	15	31.84	4004.1	0.9721	20	117.30	14751.3	0.0533
												21	119.73	15056.5	0.0576
												22	122.16	15362.6	0.0286
												23	145.21	18261.3	0.0397
												24	145.37	18281.4	0.0736
												25	145.52	18300.7	0.0430

Acquisition Time (sec)	1.0912	Comment	EJT-PRM116I alpha-bromide data mCARBONnight CDCl3 (F:\bruk500_b_data\2014\Jan) ejt 16		
Date	14 Jan 2014 01:48:48	Date Stamp	14 Jan 2014 01:48:48		
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500bdata\2014\Jan\data\ejt\nmr\2014-01-13-ejt-16\11\fid			Frequency (MHz)	125.76
Nucleus	<sup>13</sup> C	Number of Transients	3096	Origin	spect
Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	30030.03	Solvent	CHLOROFORM-d	Receiver Gain	4096.00
Sweep Width (Hz)	30029.11	Temperature (degree C)	25.000	Spectrum Offset (Hz)	12574.2715
				Spectrum Type	STANDARD



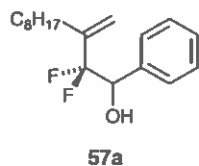
No.	(ppm)	(Hz)	Height
1	114.26	14369.1	0.1056
2	114.32	14376.5	0.3611
3	114.38	14383.8	0.1226
4	117.30	14751.3	0.0533
5	119.73	15056.5	0.0576
6	122.16	15362.6	0.0286
7	145.21	18261.3	0.0397
8	145.37	18281.4	0.0736
9	145.52	18300.7	0.0430

Acquisition Time (sec)	0.7340	Comment	EJT-PRM120 reflux o/n tol-d8 mF19CPD CDCI3 (e:\bruk400data\2014\Jan) ejt 28		
Date	10 Jan 2014 10:48:32	Date Stamp	10 Jan 2014 10:48:32		
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400DATA\2014\JAN\DATA\EJT\NMR\2014-01-10-EJT-28\11\PDATA\111R				
Frequency (MHz)	376.50	Nucleus	19F	Number of Transients	16
Original Points Count	65536	Owner	Administrator	Points Count	262144
Receiver Gain	4100.00	SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d
Spectrum Type	STANDARD	Sweep Width (Hz)	89285.37	Temperature (degree C)	20.700
				Origin	AV400
				Pulse Sequence	zgpg
				Spectrum Offset (Hz)	-37649.5977



No.	(ppm)	(Hz)	Height
1	-89.67	-33759.5	0.0402
2	-89.57	-33724.0	0.0467
3	-88.35	-33264.9	0.0441
4	-88.26	-33229.5	0.0391
5	-48.43	-18231.9	1.0000

EJT-PRM123A prod data  
mPROTON\_A\_night CDCl3 {e:\bruk400cdata\2014\Jan} ejt 1

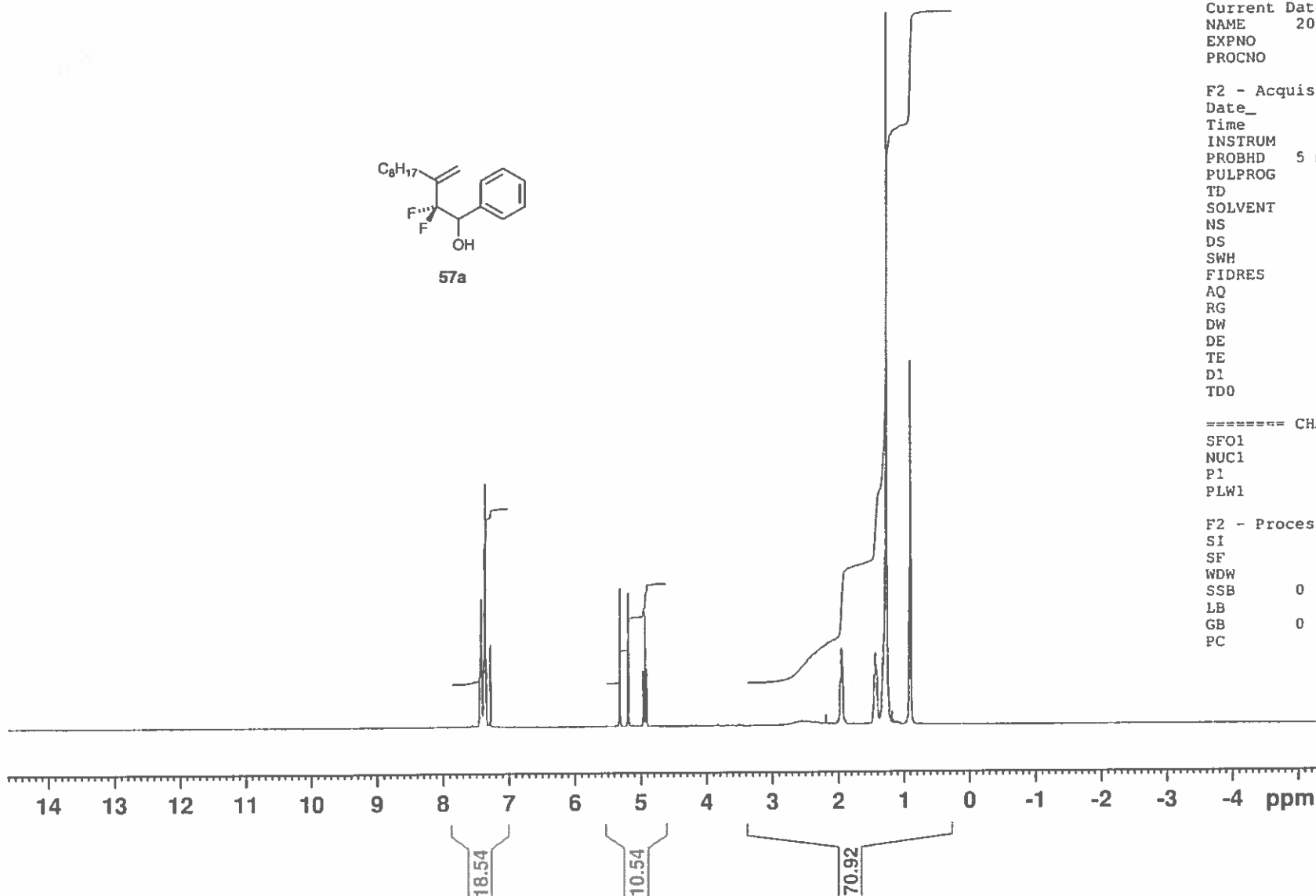


Current Data Parameters  
NAME 2014-01-27-ejt-1  
EXPNO 11  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140127  
Time 22.55  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 2  
SWH 8223.685 Hz  
FIDRES 0.125483 Hz  
AQ 3.9845889 sec  
RG 80.6  
DW 60.800 usec  
DE 10.00 usec  
TE 295.0 K  
D1 1.00000000 sec  
TDO 1

===== CHANNEL f1 =====  
SFO1 400.0718803 MHz  
NUC1 1H  
P1 12.00 usec  
PLW1 7.40000010 W

F2 - Processing parameters  
SI 32768  
SF 400.0700000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



EJT-PRM123A prod data  
mCARBON\_B CDCl3 {e:\bruk400\data\2014\Jan\ejt-1



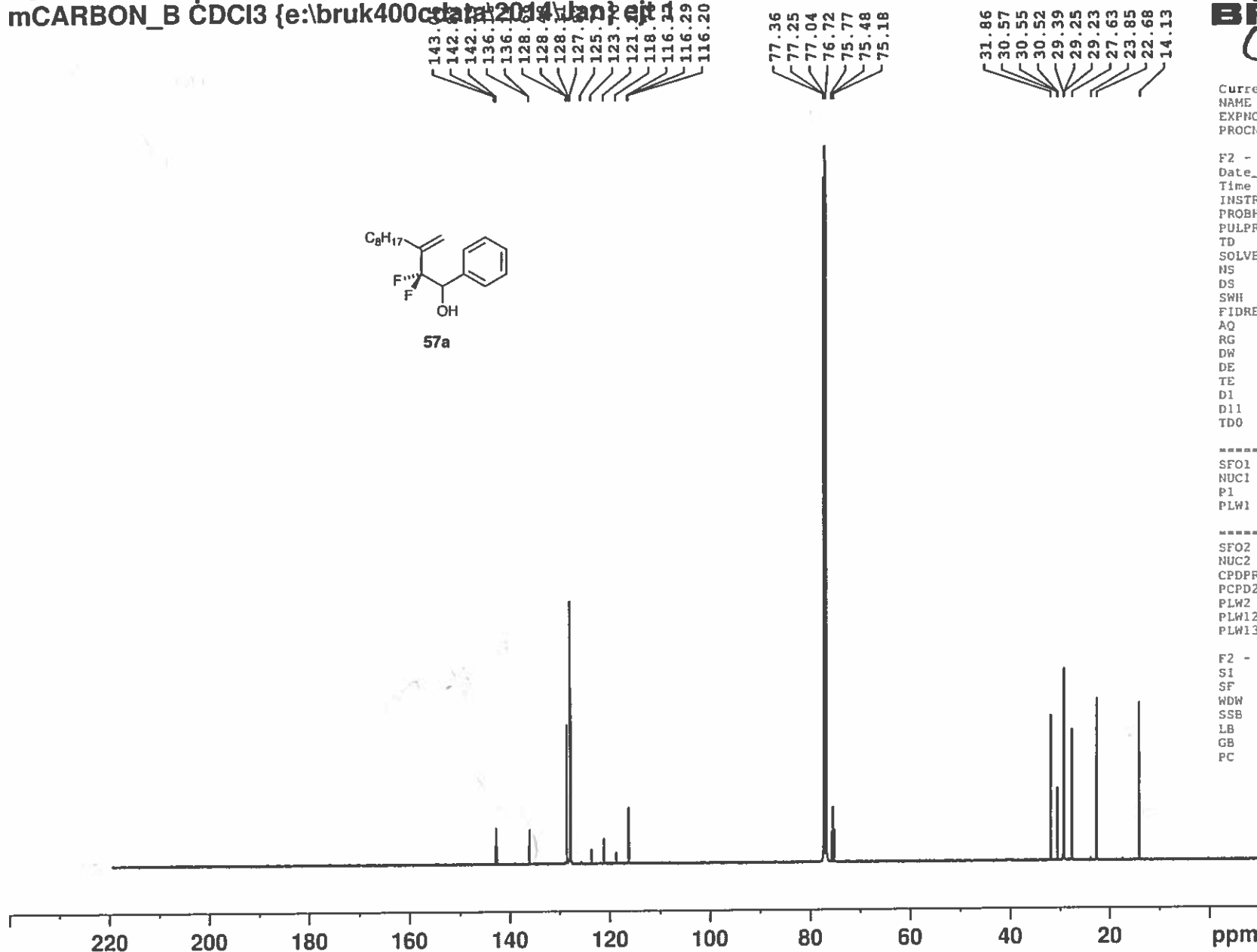
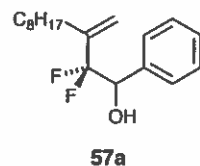
Current Data Parameters  
NAME 2014-01-27-ejt-1  
EXPNO 10  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140127  
Time 22.53  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 1024  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 45.2  
DW 20.800 usec  
DE 41.77 usec  
TE 295.0 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

----- CHANNEL f1 -----  
SFO1 100.6077384 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

----- CHANNEL f2 -----  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRG2 waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

F2 - Processing parameters  
S1 32768  
SF 100.5976820 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



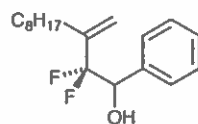


EJT-PRM123A f25-43 29mg  
m19F CDC13 /opt/oldbruk500data.11vii11/2014/Jan ejt 34

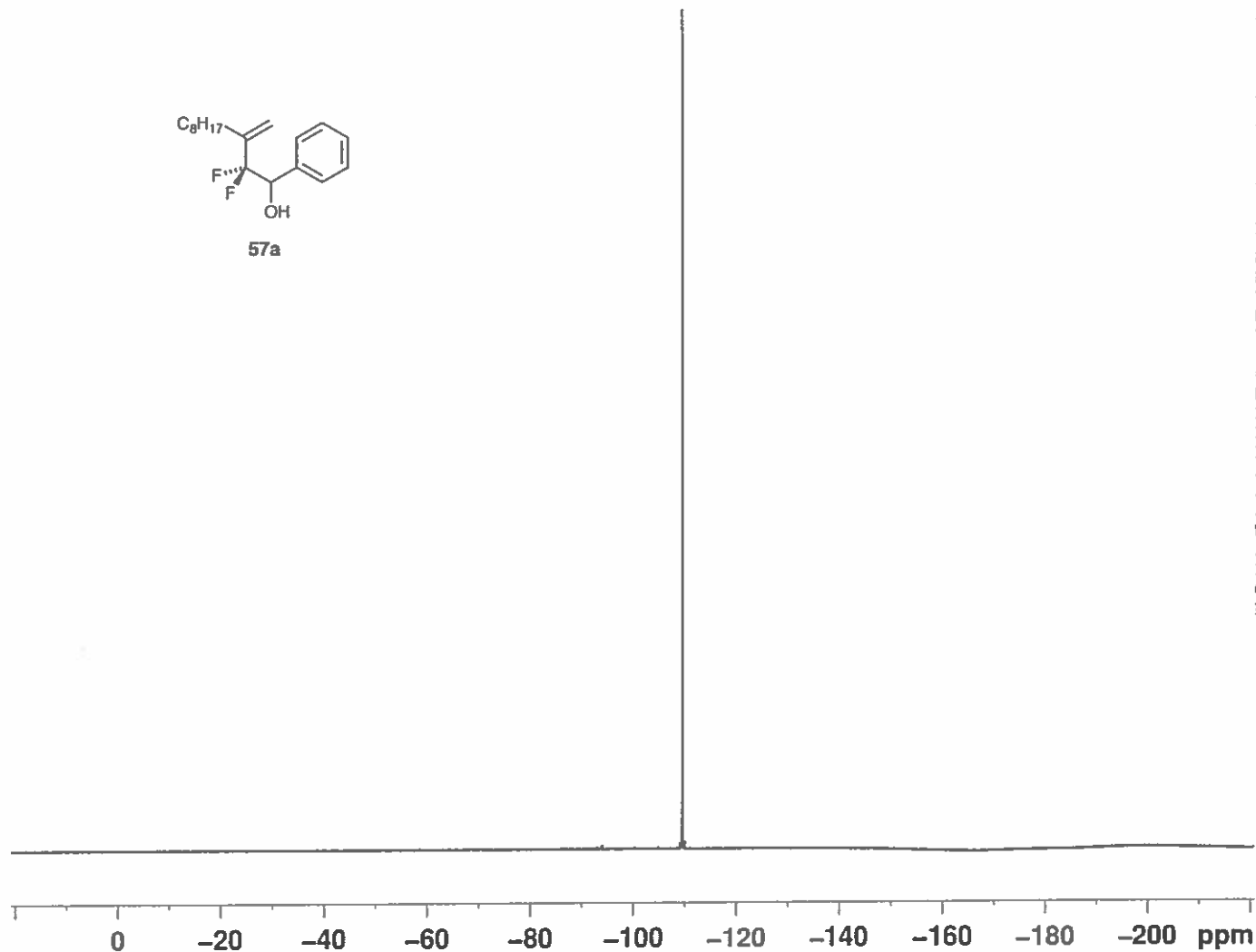


NAME 2014-01-27-ejt-34  
EXPNO 11  
PROCNO 1  
Date\_ 20140127  
Time 14.55  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zgpg30  
TD 131072  
SOLVENT CDC13  
NS 16  
DS 4  
SWH 113636.367 Hz  
FIDRES 0.866977 Hz  
AQ 0.5767668 sec  
RG 203  
DW 4.400 usec  
DE 6.50 usec  
TE 300.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 19F  
P1 12.38 usec  
PL1 -0.10 dB  
PL1W 25.70395851 W  
SFO1 470.5453180 MHz  
SI 65536  
SF 470.5923770 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



57a

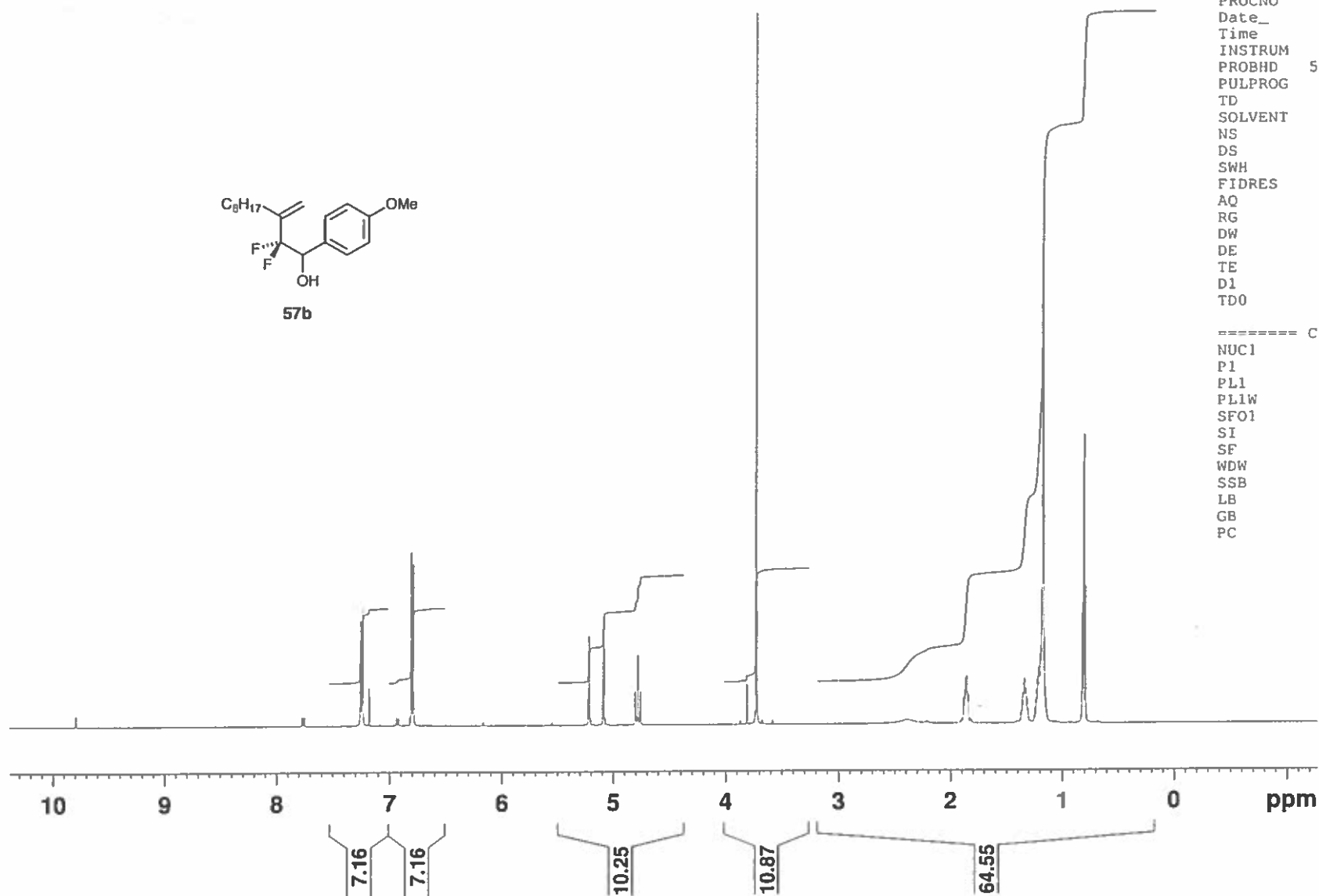
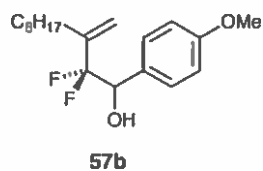


EJT-PRM123B prod data  
mPROTON CDCl<sub>3</sub> /opt/oldbruk500data.11vii11/2014/Feb ejt 25



NAME 2014-02-10-ejt-25  
EXPNO 10  
PROCNO 1  
Date\_ 20140210  
Time 17.45  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl<sub>3</sub>  
NS 16  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 20.2  
DW 48.400 usec  
DE 13.00 usec  
TE 294.2 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -0.10 dB  
PL1W 26.21803665 W  
SFO1 500.1330885 MHz  
SI 32768  
SF 500.1300522 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



EJT-PRM123B prod data

mCARBON\_B CDCl3 (e:\bruk400\data\2014 Feb\ejt40



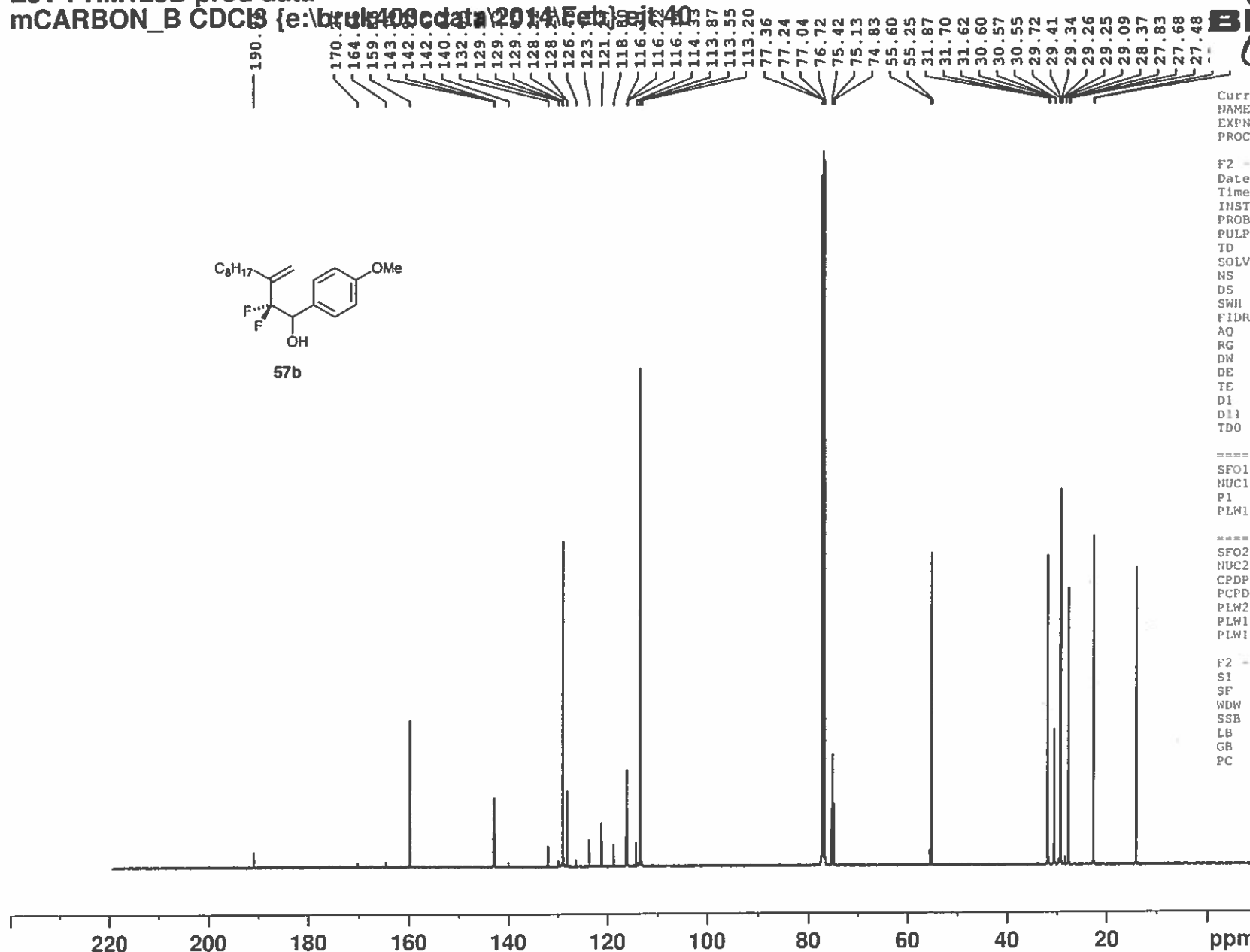
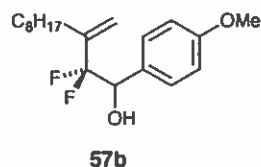
Current Data Parameters  
NAME 2014-02-10-ejt-40  
EXPNO 10  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140211  
Time 21.30  
INSTRUM spect  
PROBHD 5 mm CFPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 1024  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 45.2  
DW 20.800 usec  
DE 41.77 usec  
TE 298.0 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TDO 1

===== CHANNEL f1 =====  
SFO1 100.6077379 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

===== CHANNEL f2 =====  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRGf2 waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

F2 - Processing parameters  
SI 32768  
SF 100.5976815 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



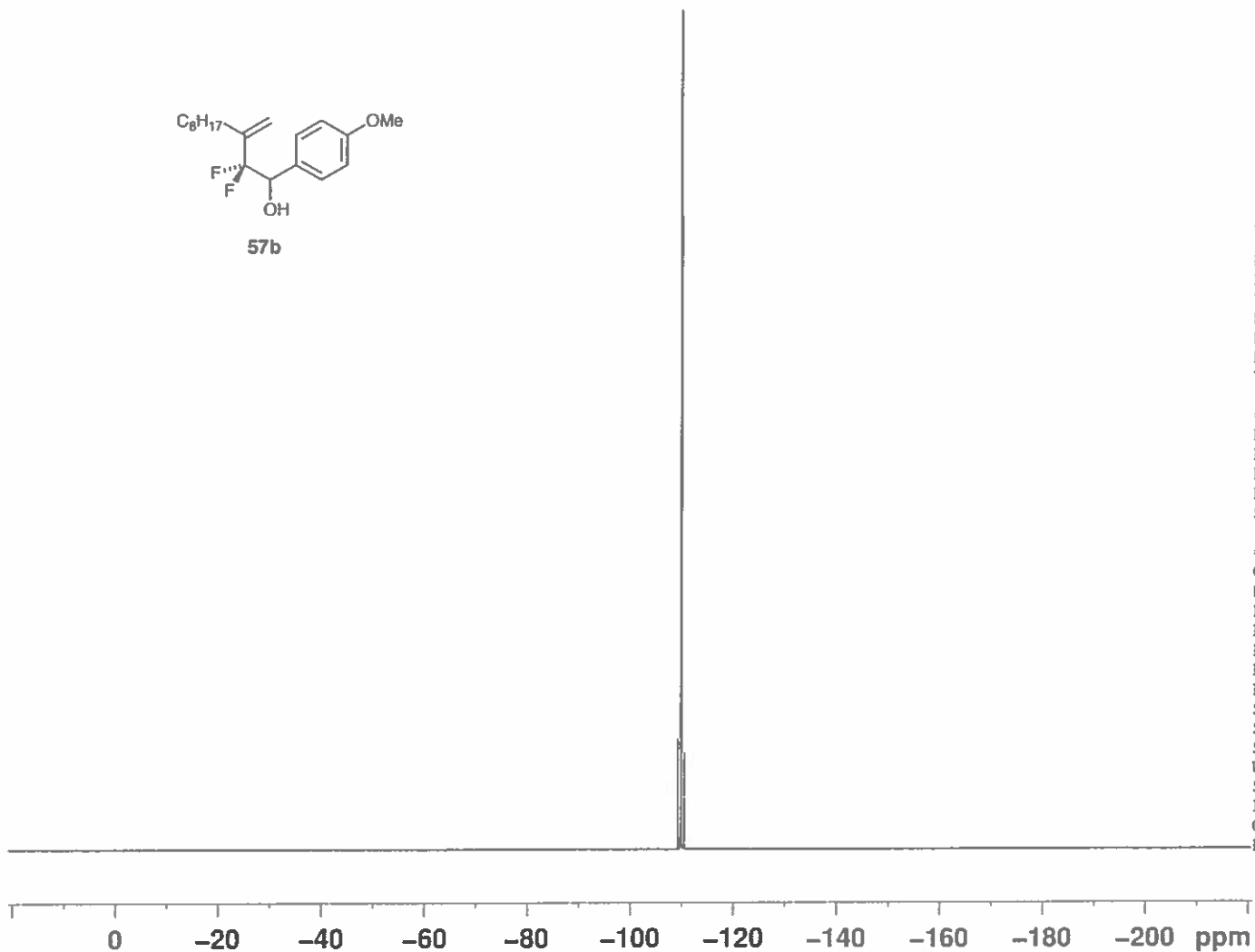
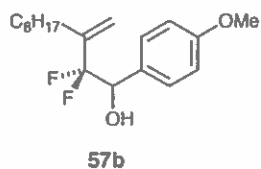
EJT-PRM123B prod data  
 m19FCPD CDC13 /opt/oldbruk500data.11vii11/2014/Feb ejt 25



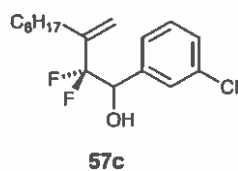
NAME 2014-02-10-ejt-25  
 EXPNO 12  
 PROCNO 1  
 Date\_ 20140210  
 Time 17.50  
 INSTRUM spect  
 PROBHD 5 mm PABBO BB-  
 PULPROG zgfhiggn  
 TD 131072  
 SOLVENT CDC13  
 NS 16  
 DS 4  
 SWH 113636.367 Hz  
 FIDRES 0.866977 Hz  
 AQ 0.5767668 sec  
 RG 32  
 DW 4.400 usec  
 DE 6.50 usec  
 TE 294.3 K  
 D1 1.00000000 sec  
 D11 0.03000000 sec  
 D12 0.00002000 sec  
 TD0 1

===== CHANNEL f1 =====  
 NUC1 19F  
 P1 12.38 usec  
 PL1 -0.10 dB  
 PL1W 25.70395851 W  
 SFO1 470.5453180 MHz

===== CHANNEL f2 =====  
 CPDPRG2 waltz16  
 NUC2 1H  
 PCPD2 80.00 usec  
 PL2 0.00 dB  
 PL12 17.23 dB  
 PL2W 25.62124252 W  
 PL12W 0.48484197 W  
 SFO2 500.1320005 MHz  
 SI 65536  
 SF 470.5923770 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00



EJT-PRM123C Prod data  
mPROTON\_A\_night CDCl3 {e:\bruk400cdata\2014\Feb} ejt 41

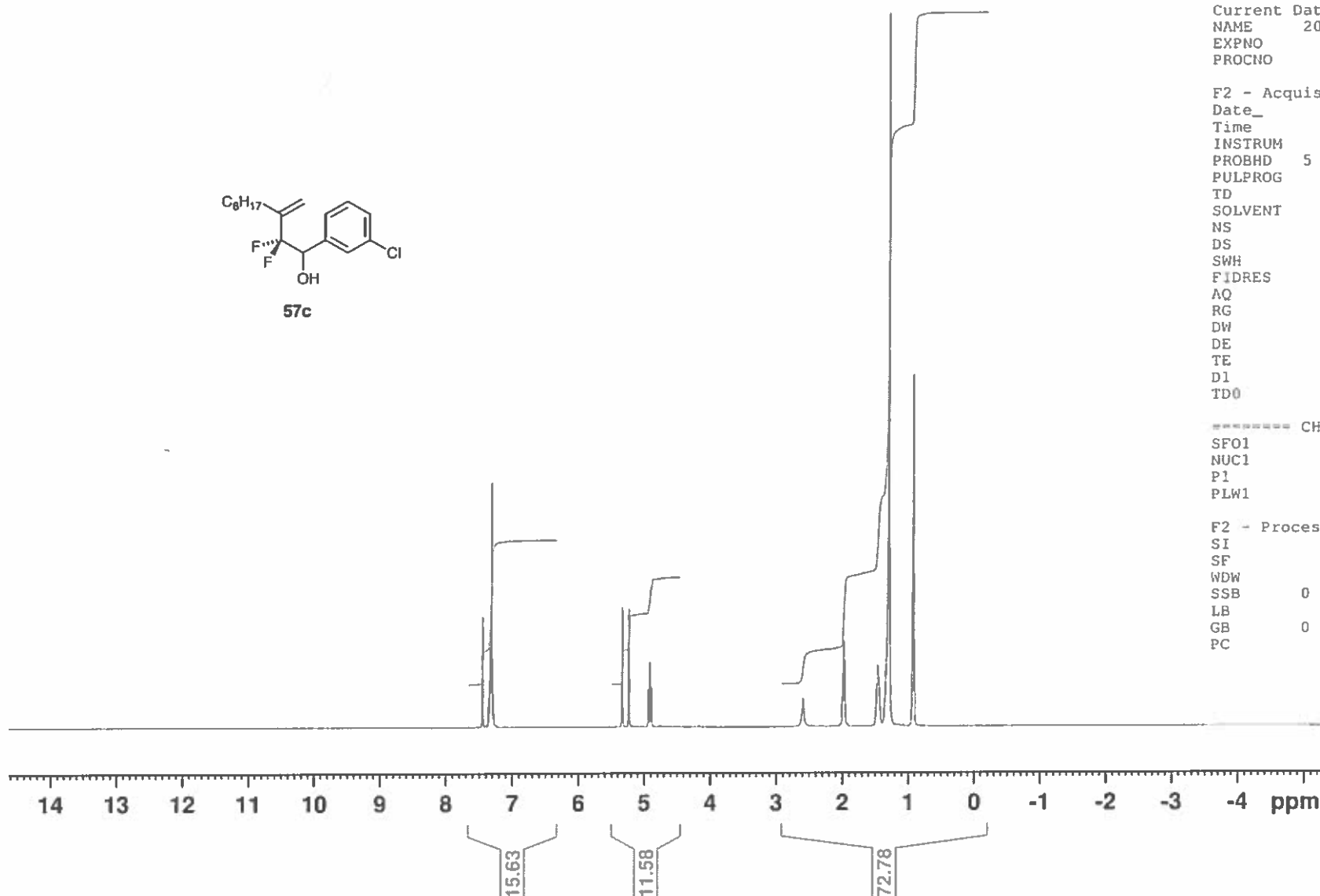


Current Data Parameters  
NAME 2014-02-10-ejt-41  
EXPNO 21  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140211  
Time 23.18  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 2  
SWH 8223.685 Hz  
FIDRES 0.125483 Hz  
AQ 3.9845889 sec  
RG 36  
DW 60.800 usec  
DE 10.00 usec  
TE 298.0 K  
D1 1.00000000 sec  
TD0 1

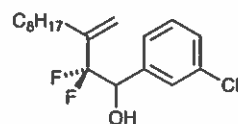
===== CHANNEL f1 =====  
SF01 400.0718803 MHz  
NUC1 1H  
P1 12.00 usec  
PLW1 7.40000010 W

F2 - Processing parameters  
SI 32768  
SF 400.0700000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



EJT-PRM123C Prod data

mCARBON\_B CDC13 (Bruker 400) data 2014 Feb ejt-41



57c

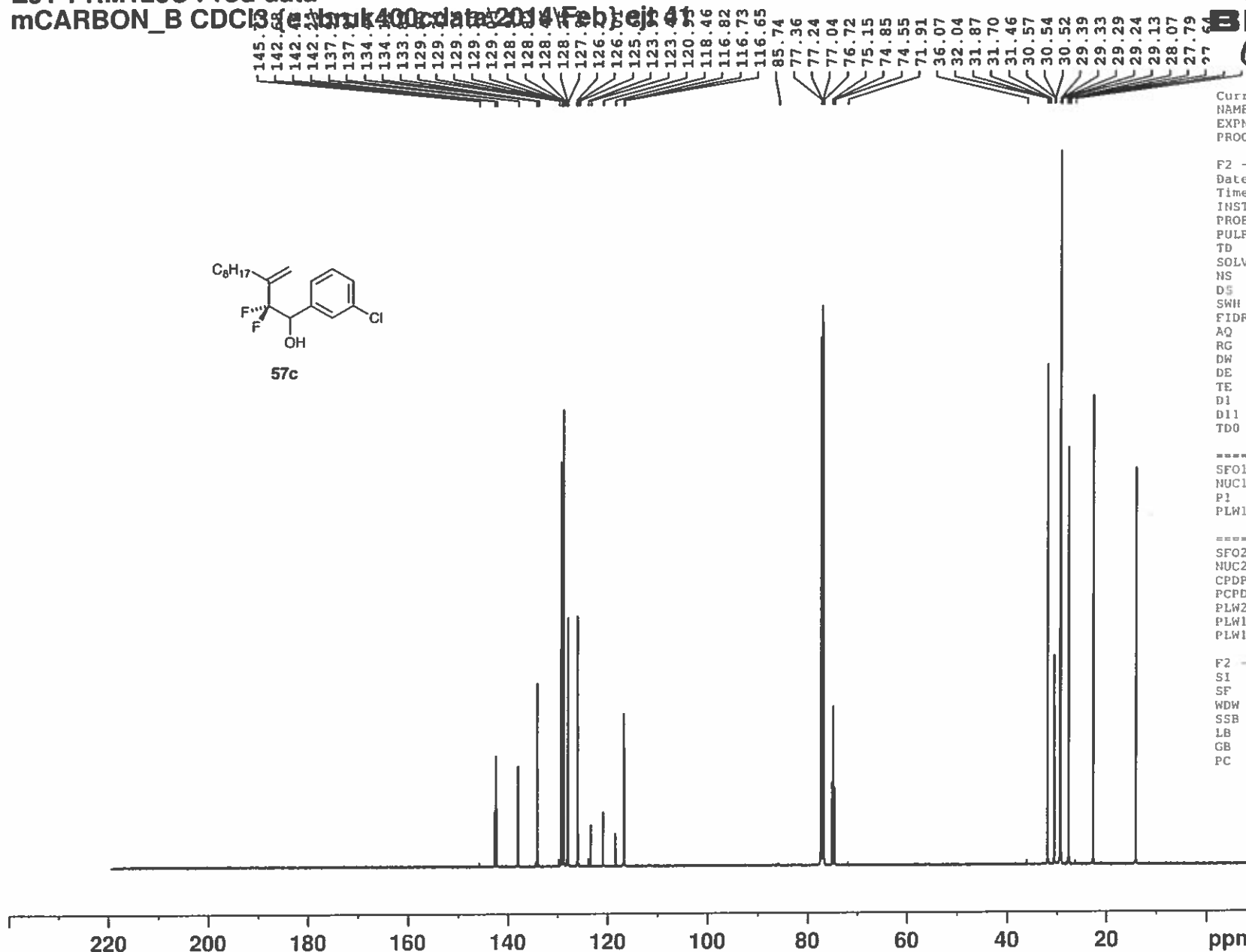
Current Data Parameters  
NAME 2014-02-10-ejt-41  
EXPNO 20  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140211  
Time 23.16  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDC13  
NS 1024  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 71.8  
DW 20.800 usec  
DE 41.77 usec  
TE 298.0 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

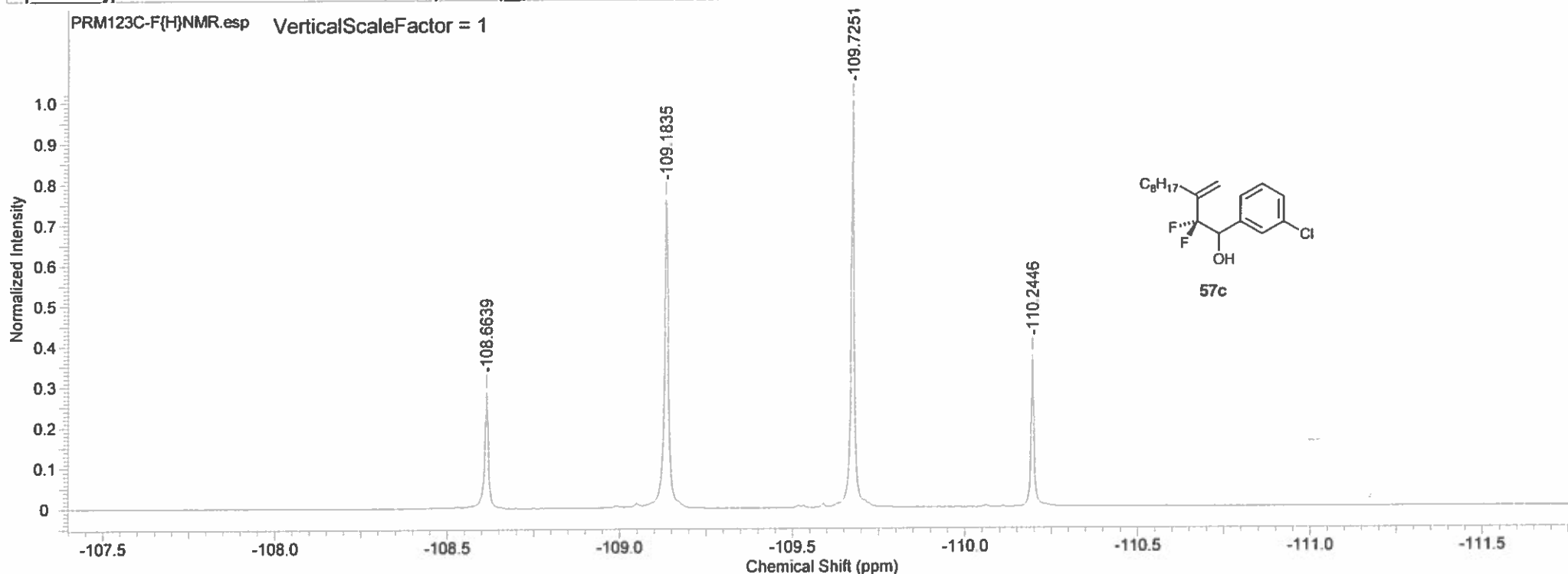
===== CHANNEL f1 =====  
SFO1 100.6077379 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

===== CHANNEL f2 =====  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRGf2 waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

F2 - Processing parameters  
SI 32768  
SF 100.5976815 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

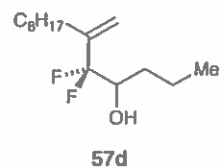


Acquisition Time (sec)	0.5767	Comment	EJT-PRM123C prod m19FCPD CDCI3 /opt/oldbruk500data.11vii11/2014/Feb ejt 10				
Date	11 Feb 2014 09:33:52	Date Stamp	11 Feb 2014 09:33:52				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2014\FEB\DATA\EJT\NMR\2014-02-11-EJT-10\12\PDATA\111R						
Frequency (MHz)	470.59	Nucleus	19F	Number of Transients	16	Origin	spect
Original Points Count	65536	Owner	vnmr1	Points Count	65536	Pulse Sequence	zgfhggn
Receiver Gain	32.00	SW(cyclical) (Hz)	113636.37	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-47059.0234
Spectrum Type	STANDARD	Sweep Width (Hz)	113634.63	Temperature (degree C)	21.184		



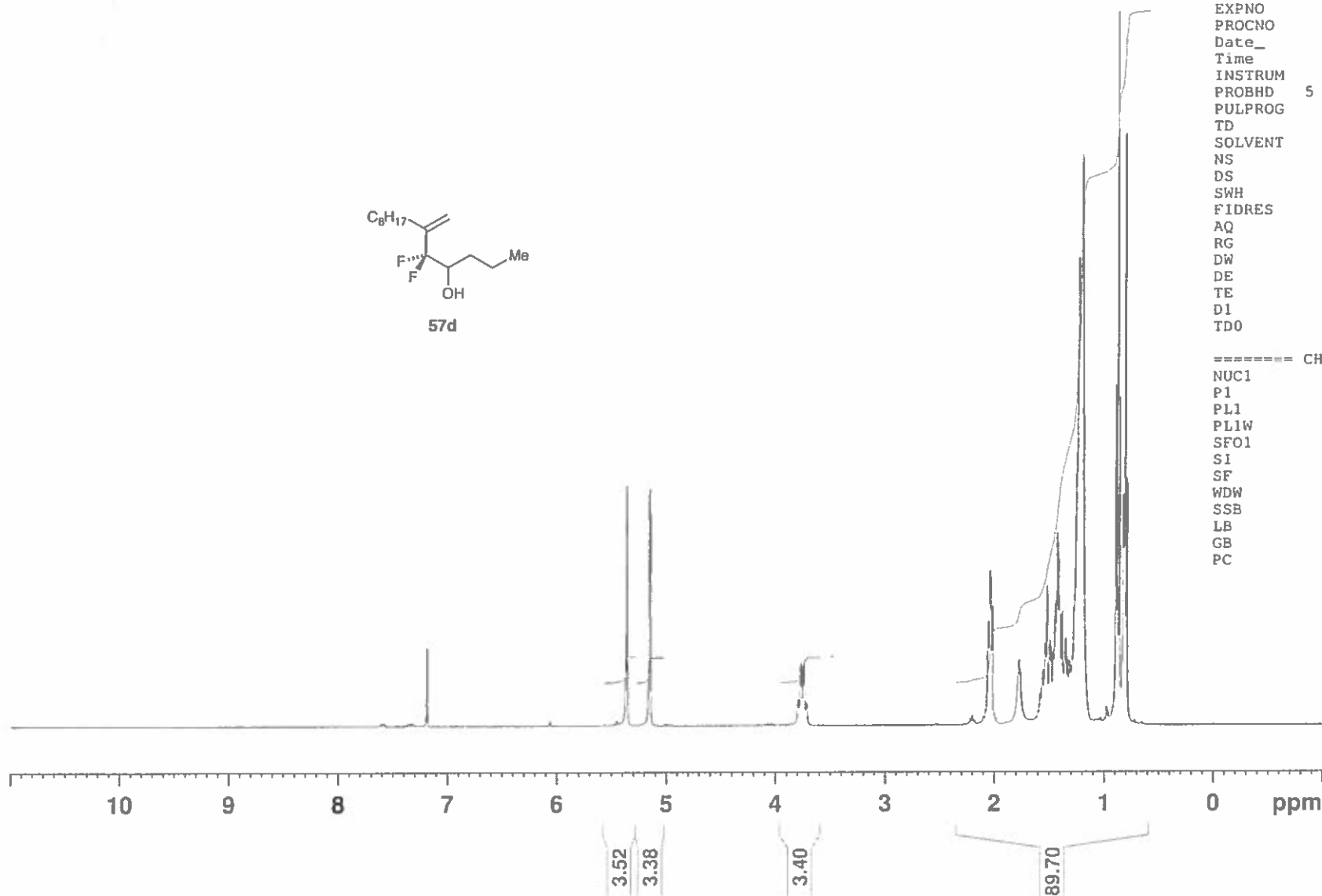
No.	(ppm)	(Hz)	Height
1	-110.24	-51880.3	0.3719
2	-109.73	-51635.8	1.0000
3	-109.18	-51380.9	0.7599
4	-108.66	-51136.4	0.2865

EJT-PRM123D prod f12-26 48mg  
mPROTON CDCl3 {e:\bruk400data\2014\Feb} ejt 27



NAME 2014-02-14-ejt-27  
EXPNO 10  
PROCNO 1  
Date\_ 20140214  
Time 15.25  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 90.5  
DW 60.500 usec  
DE 8.45 usec  
TE 294.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 14.50 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300369 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00





EJT-PRM123D prod data  
mCARBON\_B CDCl3 {e:\bruk400\data\2014\Feb\ejt-14

143.8  
142.8  
142.5  
135.5  
127.8  
124.5  
124.2  
121.1  
119.3  
115.5  
115.4

77.34  
77.22  
77.02  
76.70  
72.65  
72.36  
72.07  
42.57  
36.49  
33.01  
31.92  
31.89  
31.86  
30.55  
30.52  
30.50  
29.43  
29.32  
29.25  
28.46  
27.95  
27.80  
22.83  
22.66  
20.21  
19.04



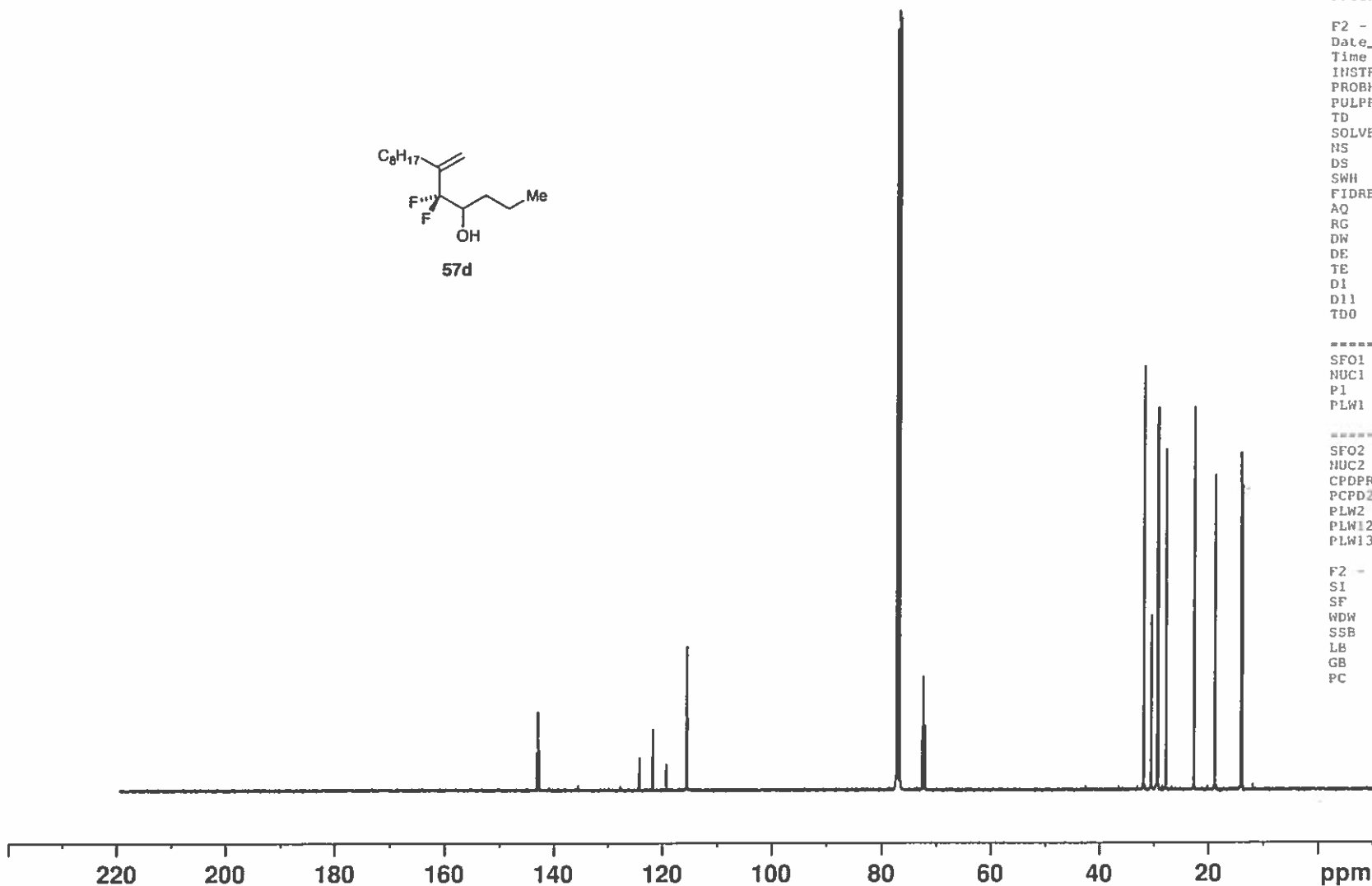
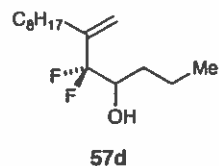
Current Data Parameters  
NAME 2014-02-14-ejt-14  
EXPNO 10  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140215  
Time 4.54  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 512  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 71.8  
DW 20.800 usec  
DE 41.77 usec  
TE 298.2 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

----- CHANNEL f1 -----  
SFO1 100.6077379 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

----- CHANNEL f2 -----  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRG12 waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

F2 - Processing parameters  
SI 32768  
SF 100.5976815 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

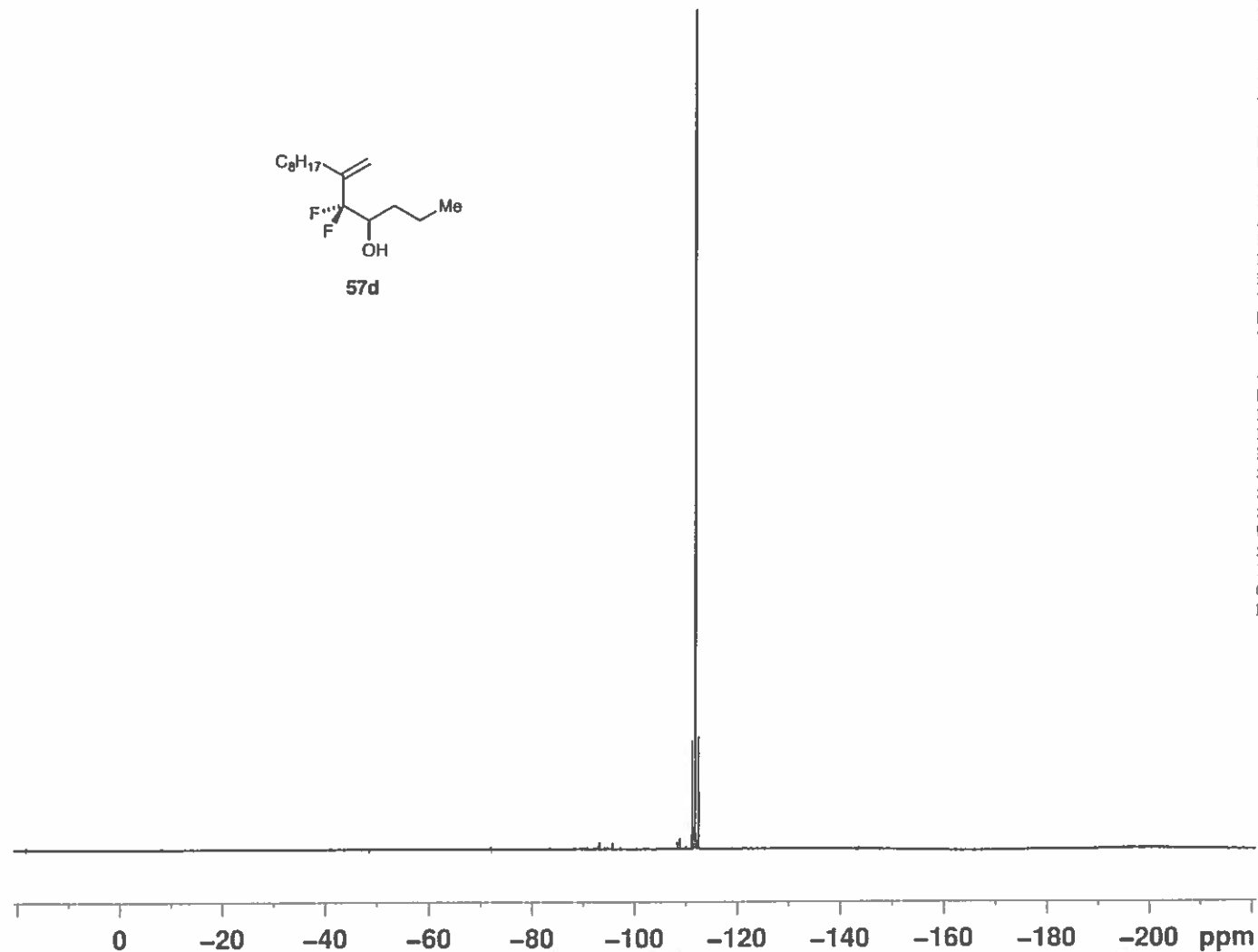
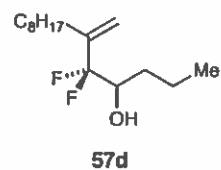


EJT-PRM123D crude 60mg  
m19F CDC13 /opt/oldbruk500data.11vii11/2014/Feb ejt 3

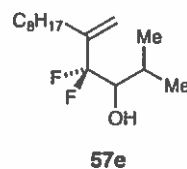


NAME 2014-02-14-ejt-3  
EXPNO 11  
PROCNO 1  
Date\_ 20140214  
Time 11.18  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zgfg1gn  
TD 131072  
SOLVENT CDC13  
NS 16  
DS 4  
SWH 113636.367 Hz  
FIDRES 0.866977 Hz  
AQ 0.5767668 sec  
RG 203  
DW 4.400 usec  
DE 6.50 usec  
TE 300.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 19F  
P1 12.38 usec  
PL1 -0.10 dB  
PL1W 25.70395851 W  
SFO1 470.5453180 MHz  
S1 65536  
SF 470.5923770 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



EJT-PRM123G prod data  
mPROTON\_A\_night CDCl3 {e:\bruk400cdata\2014\Feb} ejt 56

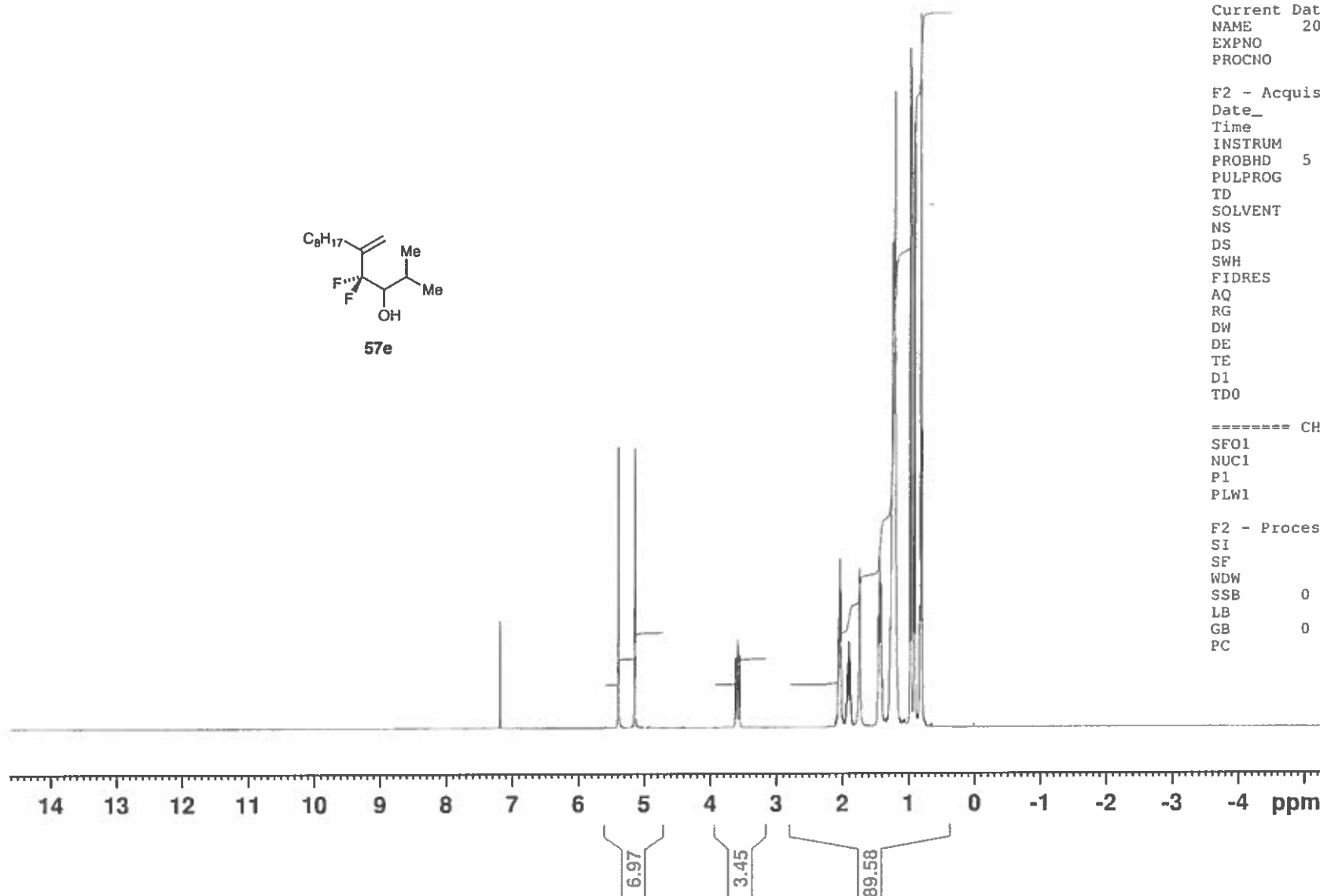


Current Data Parameters  
NAME 2014-02-22-ejt-56  
EXPNO 10  
PROCNO 1

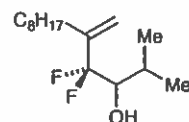
F2 - Acquisition Parameters  
Date\_ 20140223  
Time 10.30  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 2  
SWH 8223.685 Hz  
FIDRES 0.125483 Hz  
AQ 3.9845889 sec  
RG 45.2  
DW 60.800 usec  
DE 10.00 usec  
TE 298.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
SFO1 400.0718803 MHz  
NUC1 1H  
P1 12.00 usec  
PLW1 7.40000010 W

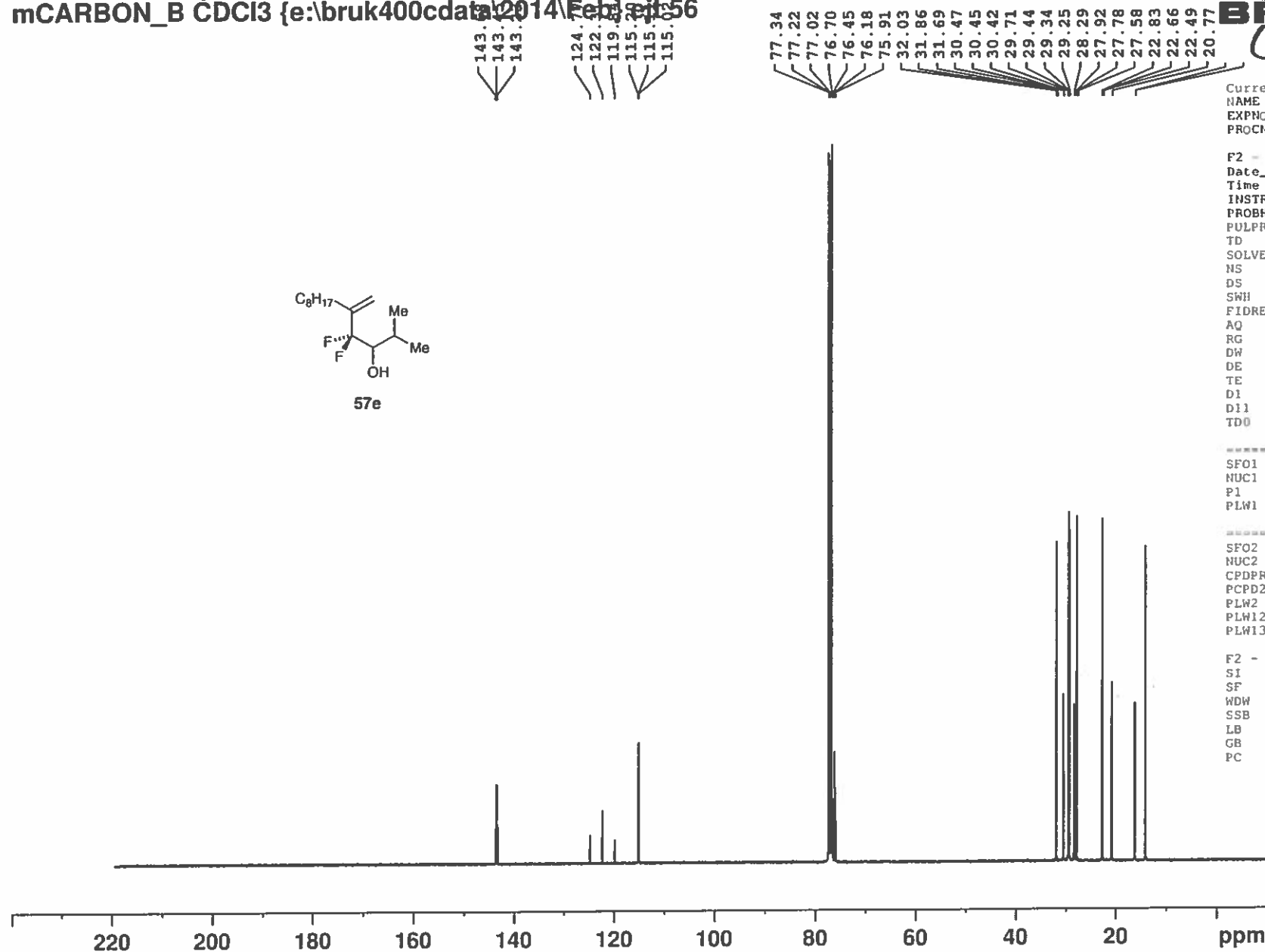
F2 - Processing parameters  
SI 32768  
SF 400.0700371 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



EJT-PRM123G prod data  
mCARBON\_B CDCl3 {e:\bruk400cdata\2014\Feb\ejt-56



57e



Current Data Parameters  
NAME 2014-02-22-ejt-56  
EXPNO 11  
PROCNO 1

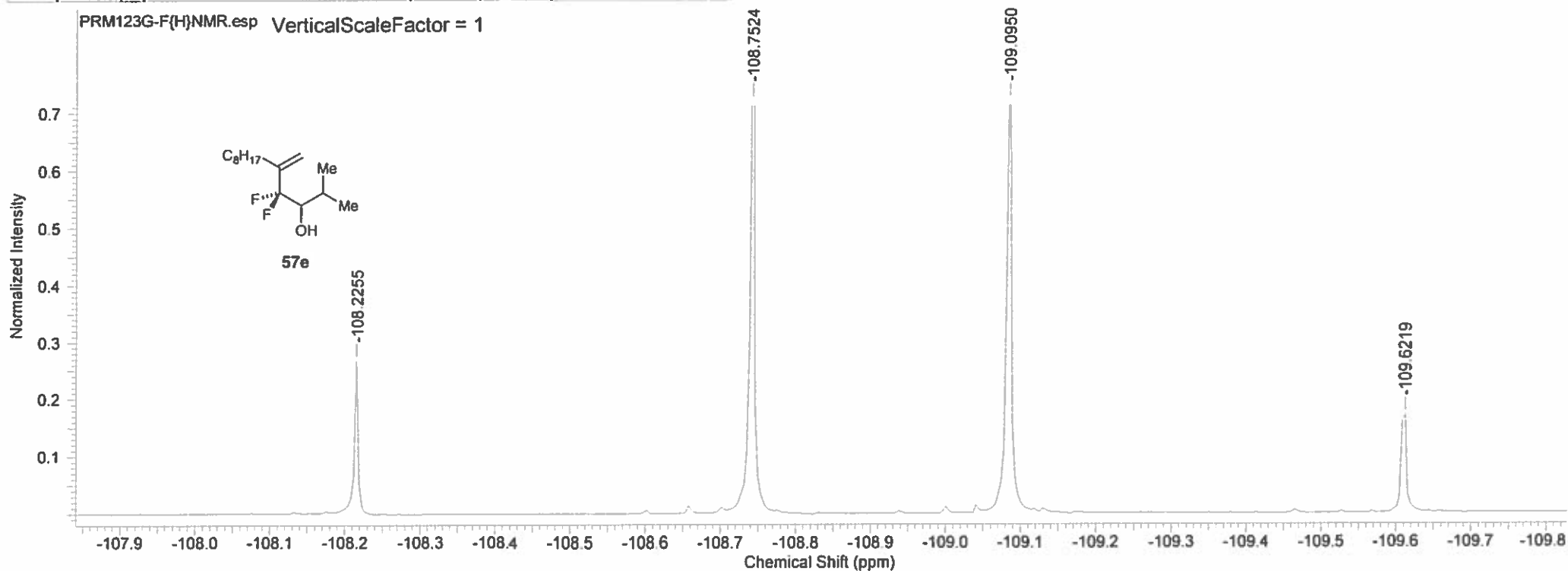
F2 - Acquisition Parameters  
Date\_ 20140223  
Time 11.30  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 1024  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 71.8  
DW 20.800 usec  
DE 41.77 usec  
TE 298.0 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
SFO1 100.6077379 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

===== CHANNEL f2 =====  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRG2 waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

F2 - Processing parameters  
SI 32768  
SF 100.5976815 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

Acquisition Time (sec)	0.5767	Comment	EJT-PRM123G prod m19FCPD CDCl3 /opt/oldbruk500data.11vii11/2014/Feb ejt 56				
Date	23 Feb 2014 18:54:56	Date Stamp	23 Feb 2014 18:54:56				
File Name	\\ss7a.ds.man.ac.uk\vol3\users\snmrdata\bruk500data\bruk500data\2014\Feb\data\ejt\nmr\2014-02-23-ejt-56\12\fid				Frequency (MHz)	470.59	
Nucleus	19F	Number of Transients	16	Origin	spect	Original Points Count	65536
Owner	vnmr1	Points Count	65536	Pulse Sequence	zgfhgqn	Receiver Gain	32.00
SW(cyclical) (Hz)	113636.37	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-47059.0234	Spectrum Type	STANDARD
Sweep Width (Hz)	113634.63	Temperature (degree C)	27.000				



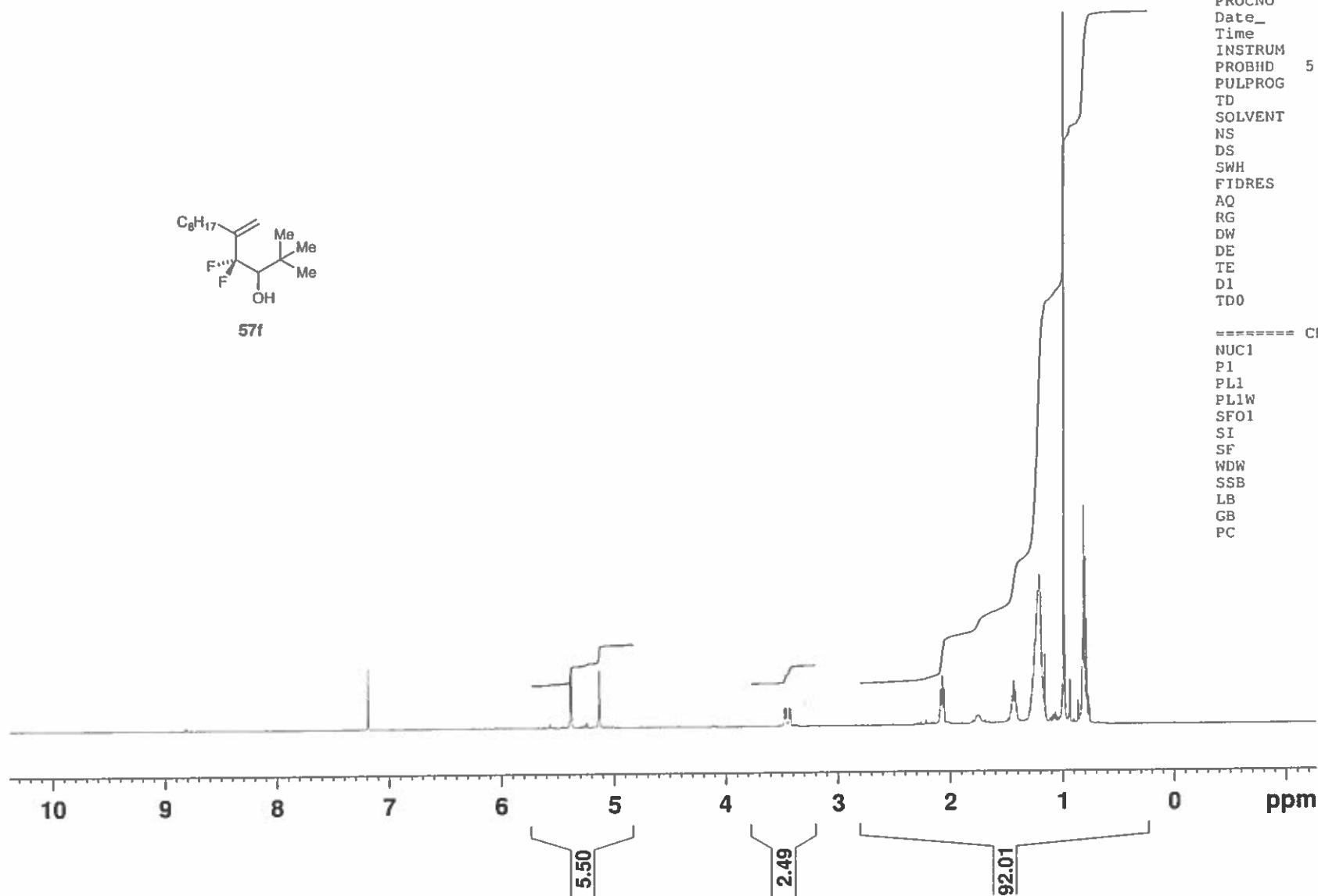
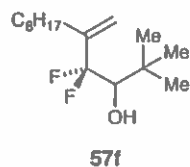
No.	(ppm)	(Hz)	Height
1	-109.62	-51587.2	0.1688
2	-109.10	-51339.3	0.8761
3	-108.75	-51178.0	1.0000
4	-108.23	-50930.1	0.2675

EJT-PRM123E f8-15 24mg  
mPROTON CDCl3 /opt/oldbruk500data.11vii11/2014/Jan ejt 29



NAME 2014-01-28-ejt-29  
EXPNO 10  
PROCNO 1  
Date\_ 20140128  
Time 16.14  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.171923 sec  
RG 25.4  
DW 48.400 usec  
DE 13.00 usec  
TE 300.0 K  
D1 1.00000000 sec  
TD0 1

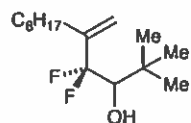
===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -0.10 dB  
PL1W 26.21803665 W  
SF01 500.1330885 MHz  
SI 32768  
SF 500.1300482 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



EJT-PRM123E Prod data 24mg  
mCARBON B CDCl3 {e:\bruk400\data\2014\jan\ejt\_32



211.42



571

149.0  
144.0  
144.0  
144.0  
125.0  
123.0  
123.0  
120.0  
116.0  
114.0  
114.0  
114.0  
114.0  
114.0  
78.36  
78.06  
78.06  
77.79  
77.34  
77.23  
77.02  
76.71  
54.95  
45.16  
41.35  
36.08  
34.78  
34.44  
31.87  
31.70  
31.61  
31.01  
30.56  
30.54  
30.51  
29.99  
29.77  
29.46  
29.40  
29.31  
29.26  
29.17  
29.11  
29.07  
29.03  
28.45

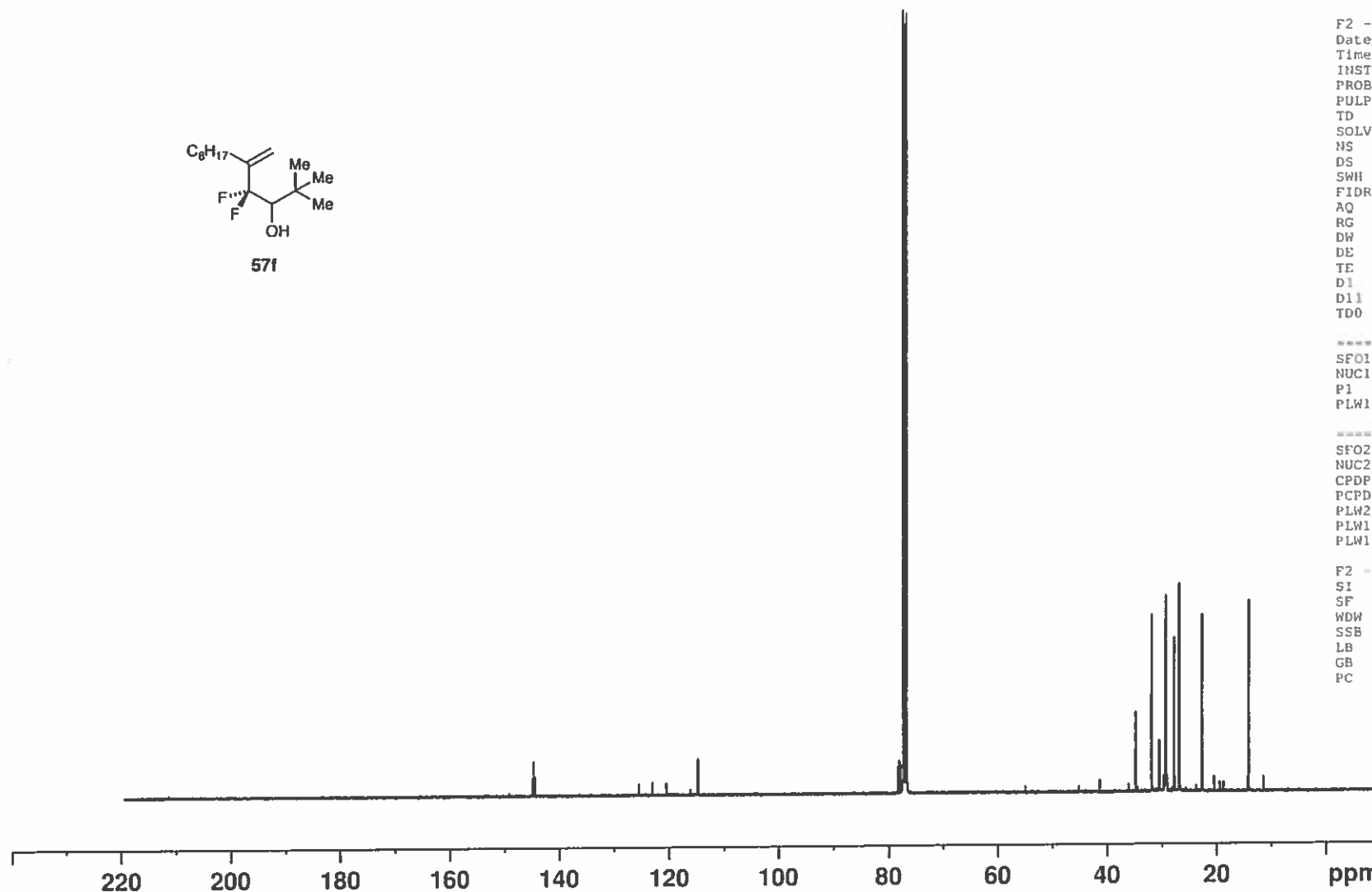
Current Data Parameters  
NAME 2014-01-28-ejt-32  
EXPNO 22  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140129  
Time 19.09  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 1024  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 71.8  
DW 20.800 usec  
DE 41.77 usec  
TE 295.0 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

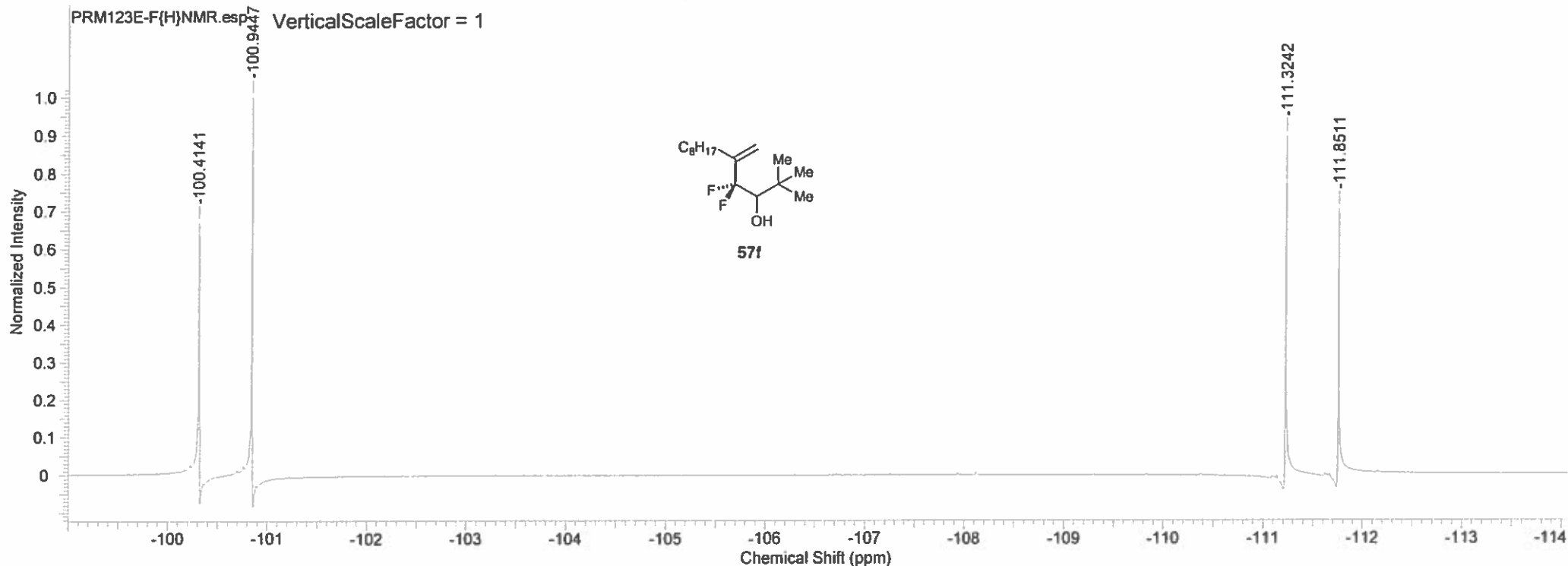
===== CHANNEL f1 =====  
SF01 100.6077384 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

===== CHANNEL f2 =====  
SF02 400.0716003 MHz  
NUC2 1H  
CPDPRG12 waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

F2 - Processing parameters  
SI 32768  
SF 100.5976820 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



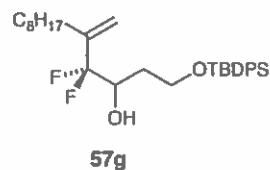
Acquisition Time (sec)	0.5767	Comment	EJT-PRM123E f8-15 24mg m19FCPD CDCl3 /opt/oldbruk500data.11vii11/2014/Jan ejt 29				
Date	28 Jan 2014 16:19:12	Date Stamp	28 Jan 2014 16:19:12				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2014\JAN\DATA\EJT\NMR\2014-01-28-EJT-29\12\PDATA\111R						
Frequency (MHz)	470.59	Nucleus	19F	Number of Transients	16	Origin	spect
Original Points Count	65536	Owner	vnmr1	Points Count	65536	Pulse Sequence	zgfhigqn
Receiver Gain	32.00	SW(cyclical) (Hz)	113636.37	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-47059.0234
Spectrum Type	STANDARD	Sweep Width (Hz)	113634.63	Temperature (degree C)	27.000		



No.	(ppm)	(Hz)	Height
1	-111.85	-52636.3	0.7016
2	-111.32	-52388.3	0.8938
3	-100.94	-47503.8	1.0000
4	-100.41	-47254.1	0.6694



P. Mears  
EJT-PRM 120 prod F31-41  
0214-029  
mPROTON CDCl3 {E:\bruk500cdata\2014\Feb} staff 29

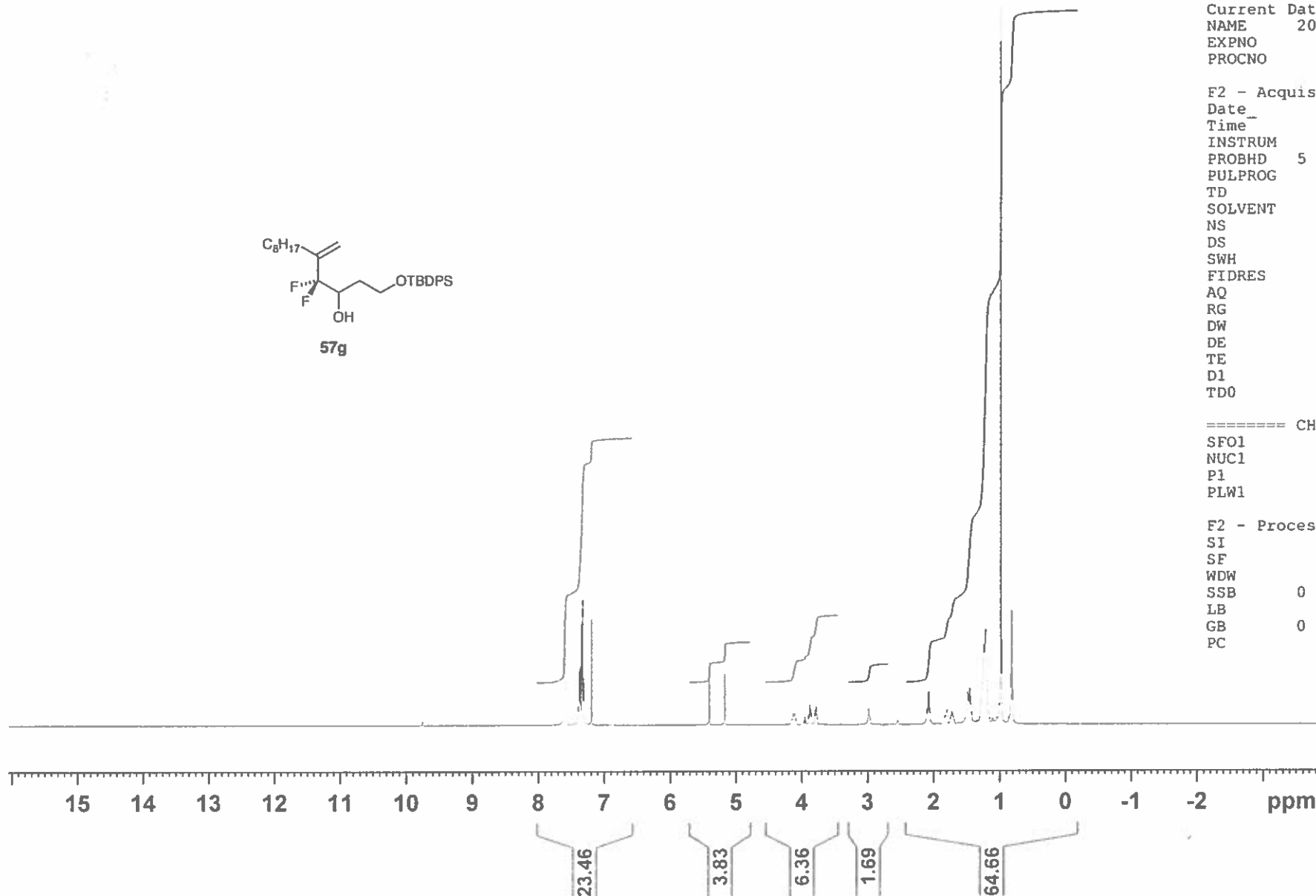


Current Data Parameters  
NAME 2014-02-18-staff-29  
EXPNO 10  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140218  
Time\_ 15.28  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 2  
SWH 10000.000 Hz  
FIDRES 0.152588 Hz  
AQ 3.2767999 sec  
RG 47.9  
DW 50.000 usec  
DE 13.87 usec  
TE 298.2 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
SFO1 500.1930889 MHz  
NUC1 1H  
P1 13.00 usec  
PLW1 16.00000000 W

F2 - Processing parameters  
SI 65536  
SF 500.1900500 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



mCARBON CDC13 {E:\bruk500cdata\2014\Feb} staff 29



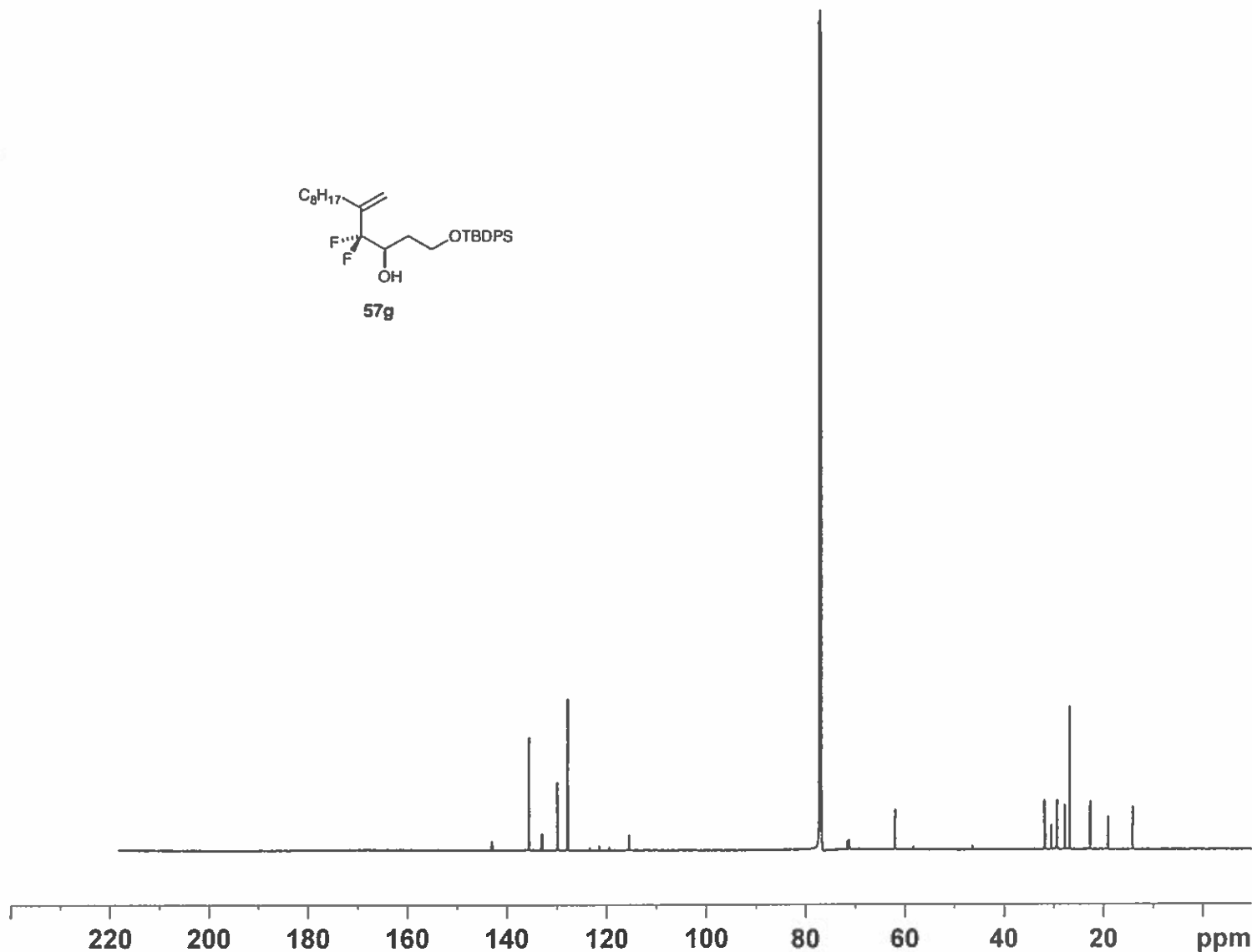
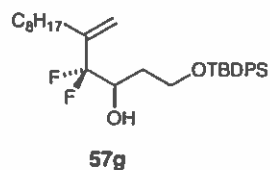
Current Data Parameters  
NAME 2014-02-18-staff-29  
EXPNO 11  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140218  
Time\_ 17.17  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDC13  
NS 2048  
DS 4  
SWH 29761.904 Hz  
FIDRES 0.454131 Hz  
AQ 1.1010048 sec  
RG 184.4  
DW 16.800 usec  
DE 102.82 usec  
TE 298.2 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
SFO1 125.7854504 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 53.59999847 W

===== CHANNEL f2 =====  
SFO2 500.1920008 MHz  
NUC2 1H  
CPDPRG12 waltz16  
PCPD2 80.00 usec  
PLW2 16.00000000 W  
PLW12 0.28622001 W  
PLW13 0.18318000 W

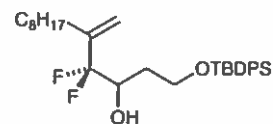
F2 - Processing parameters  
SI 32768  
SF 125.7728760 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



EJT-PRM120 f95-113 24mg  
mF19CPD CDCl3 {e:\bruk400data\2014\Feb} ejt 1



-109.91  
-110.56  
-113.92  
-114.47



57g

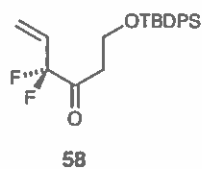
NAME 2014-02-13-ejt-1  
EXPNO 11  
PROCNO 1  
Date\_ 20140213  
Time 13.50  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zgig  
TD 131072  
SOLVENT CDCl3  
NS 16  
DS 4  
SWH 89285.711 Hz  
FIDRES 0.681196 Hz  
AQ 0.7340532 sec  
RG 4100  
DW 5.600 usec  
DE 7.51 usec  
TE 294.3 K  
D1 1.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 19F  
P1 10.70 usec  
PL1 -5.00 dB  
PL1W 27.00716019 W  
SFO1 376.4607164 MHz

===== CHANNEL f2 =====  
CPDPRG2 waltz16  
NUC2 1H  
PCPD2 90.00 usec  
PL2 -3.60 dB  
PL12 12.14 dB  
PL2W 17.83863831 W  
PL12W 0.47573122 W  
SFO2 400.1316005 MHz  
S1 262144  
SF 376.4983660 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 2.00



EJT-PRM145 f5-13 113mg  
mPROTON\_A\_night CDCl3 {e:\bruk400cdata\2014\Mar} ejt 11

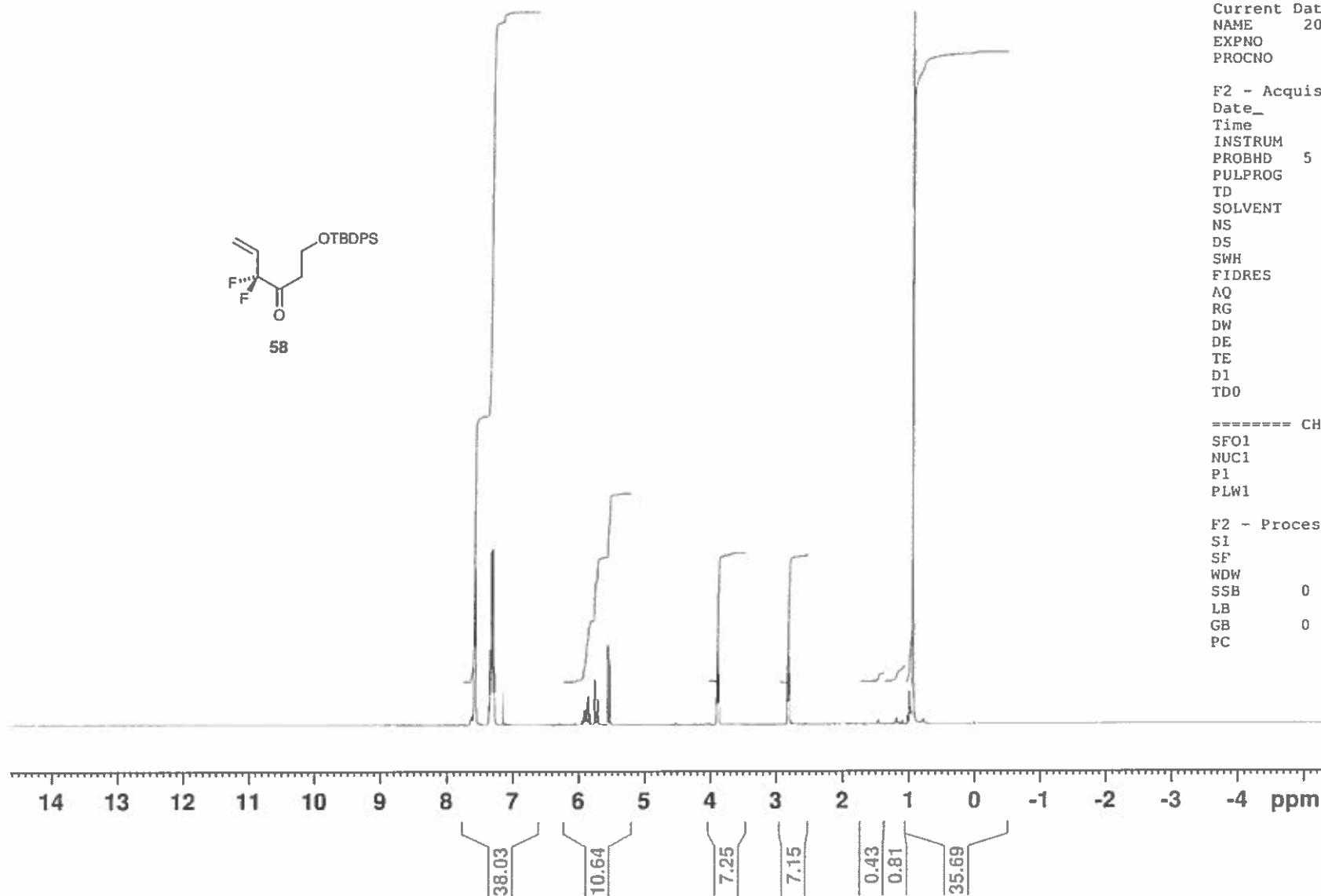


Current Data Parameters  
NAME 2014-03-28-ejt-11  
EXPNO 13  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140328  
Time 22.16  
INSTRUM spect  
PROBHD 5 mm CFPBBO BB  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 2  
SWH 8223.685 Hz  
FIDRES 0.125483 Hz  
AQ 3.9845889 sec  
RG 40.3  
DW 60.800 usec  
DE 10.00 usec  
TE 298.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
SFO1 400.0718803 MHz  
NUC1 1H  
P1 12.00 usec  
PLW1 7.40000010 W

F2 - Processing parameters  
S1 32768  
SF 400.0700535 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



mCARBON BEDCIS (e:\bruk400\data\2013\Mar\pit 11

**58**

[illegible]

19.28 **BRUKER**  
400 MHz

```
Current Data Parameters
NAME      2014-03-28-ejt-11
EXPNO      12
PROCNO     1
```

```

F2 - Acquisition Parameters
Date_      20140328
Time       22.14
INSTRUM    spect
PROBHD     5 mm CYPBBO BB
PULPROG    zgpg30
TD         65536
SOLVENT    CDC13
NS         1024
DS         4
SWH        24038.461 Hz
FIDRES     0.366798 Hz
AQ         1.3631488 sec
RG         71.8
DW         20.800 usec
DE         41.77 usec
TE         298.0 K
D1         2.0000000 sec
D11        0.03000000 sec
TD0        1

```

```

===== CHANNEL f1 =====
SFO1      100.6077379 MHz
NUC1      13C
P1         10.00 usec
PLW1      33.00000000 W

```

```

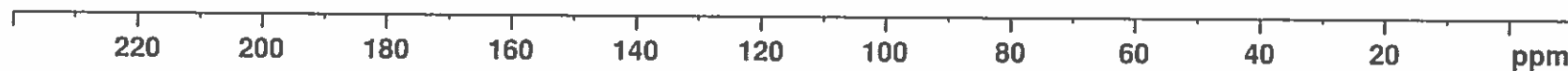
===== CHANNEL f2 =====
SFO2          400.0716003 MHz
NUC2          1H
CPDRPG{2      waltz16
PCPD2          80.00 usec
PLW2          7.40000010 W
PLW12         0.17209999 W
PLW13         0.11014000 W

```

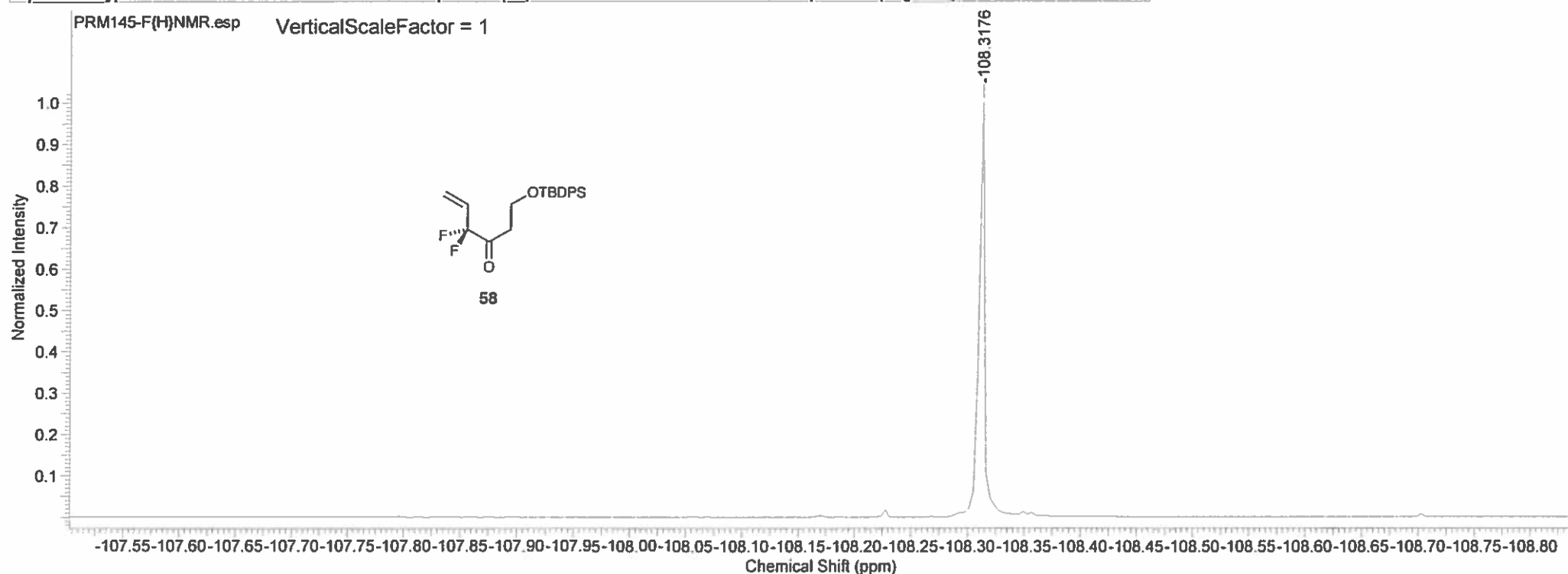
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F2 - Processing parameters
SI              32768
SF              100.5976815 MHz
WDW              EM
SSB             0
LB              1.00 Hz
GB              0
PC              1.40

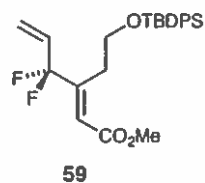
```



Acquisition Time (sec)	0.5767	Comment	EJT-PRM145 f3-7 40mg m19FCPD CDCl3 /opt/oldbruk500data.11vii11/2014/Mar ejt 5				
Date	26 Mar 2014 14:26:08	Date Stamp	26 Mar 2014 14:26:08				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2014\MAR\DATA\EJT\NMR\2014-03-26-EJT-5\12\PDATA\111R						
Frequency (MHz)	470.59	Nucleus	19F	Number of Transients	16	Origin	spect
Original Points Count	65536	Owner	vnmr1	Points Count	65536	Pulse Sequence	zgfhhgqn
Receiver Gain	575.00	SW(cyclical) (Hz)	113636.37	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-47059.0234
Spectrum Type	STANDARD	Sweep Width (Hz)	113634.63	Temperature (degree C)	27.000		



EJT-PRM146 phosphoranylidene f14-24 20mg  
mPROTON\_A CDCl3 {e:\bruk400cdata\2014\Apr} ejt 42

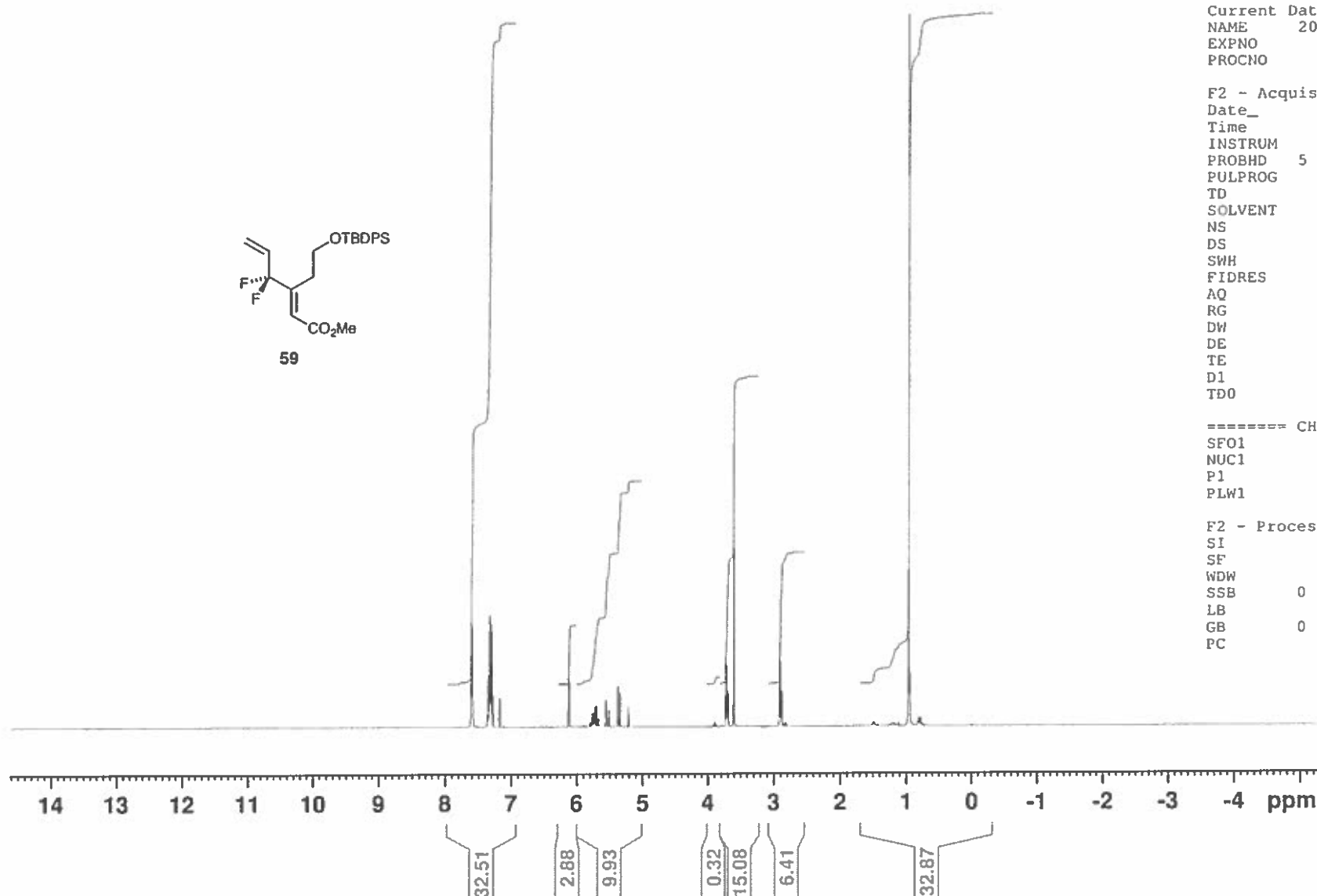


Current Data Parameters  
NAME 2014-04-01-ejt-42  
EXPNO 10  
PROCNO 1

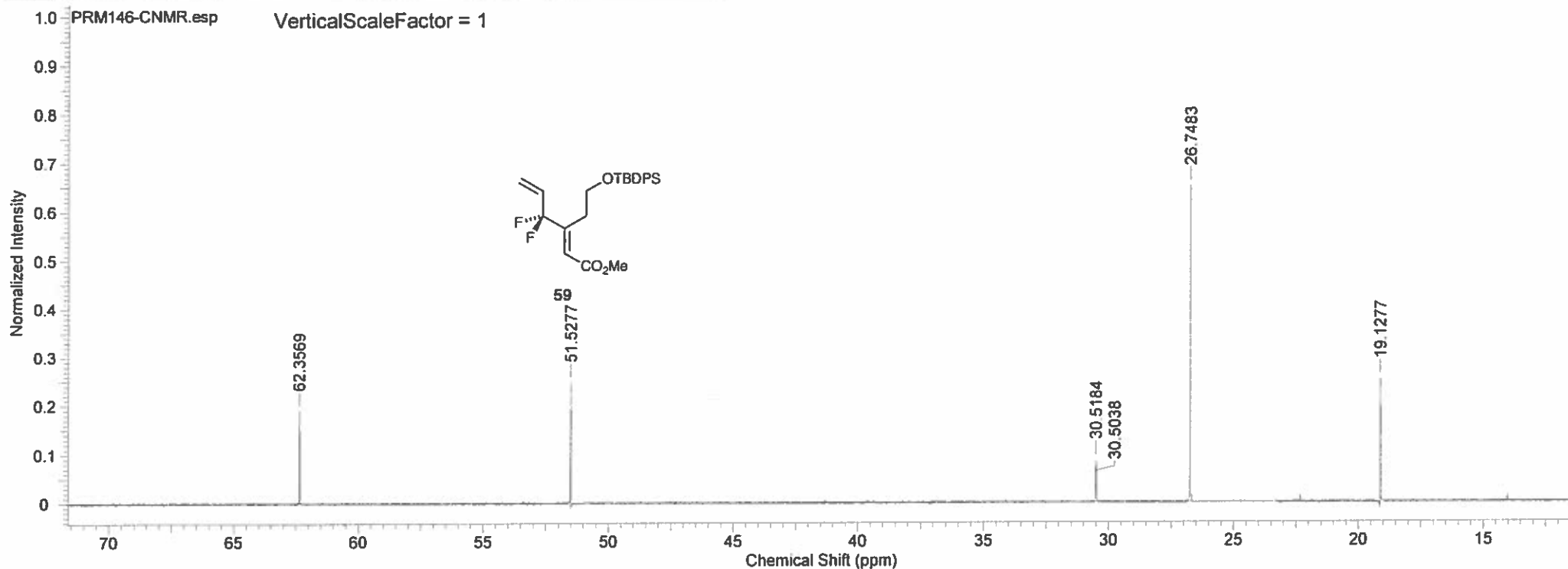
F2 - Acquisition Parameters  
Date\_ 20140401  
Time 12.26  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 4  
DS 2  
SWH 8012.820 Hz  
FIDRES 0.122266 Hz  
AQ 4.0894465 sec  
RG 90.5  
DW 62.400 usec  
DE 10.00 usec  
TE 298.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
SFO1 400.0719003 MHz  
NUC1 1H  
P1 12.00 usec  
PLW1 7.40000010 W

F2 - Processing parameters  
SI 65536  
SF 400.0700435 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



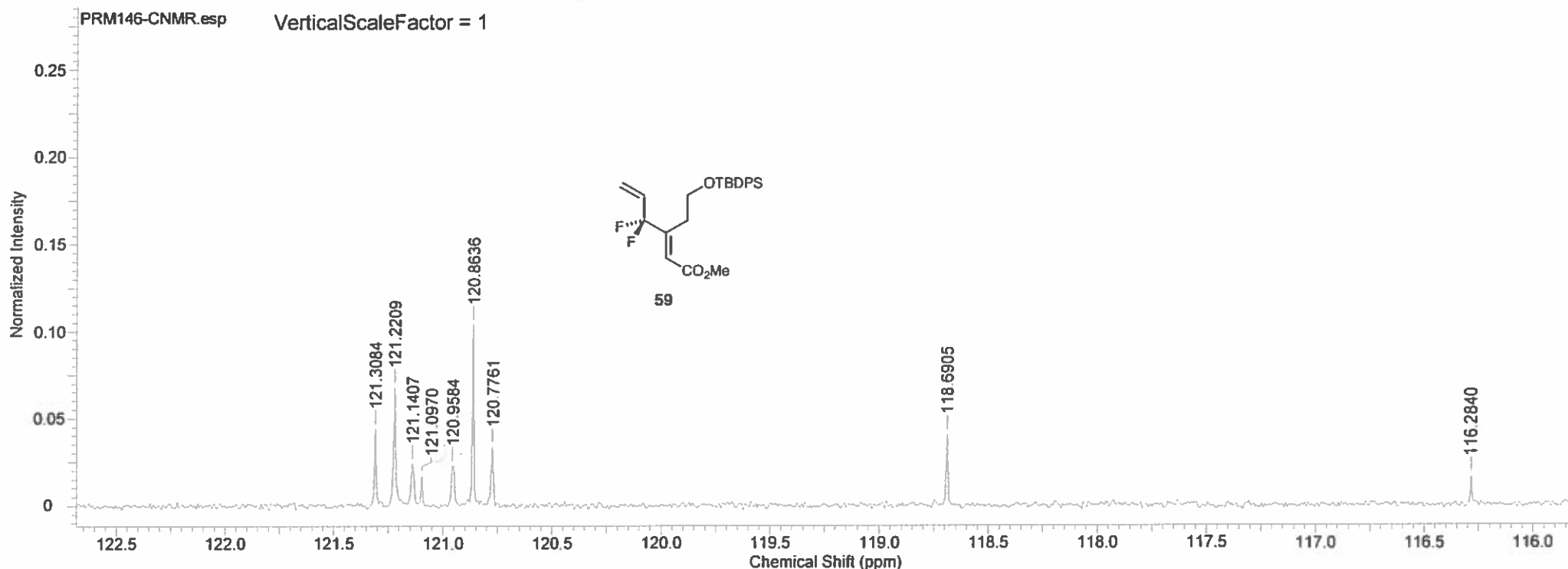
Acquisition Time (sec)	1.3631	Comment	EJT-PRM146 prod alkene mCARBON_B CDCl3 (e:\bruk400cdata\2014\Apr} ejt 24		
Date	03 Apr 2014 19:05:52	Date Stamp	03 Apr 2014 19:05:52		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2014\Apr\data\ejt\nmr\2014-04-03-ejt-24\10\fid	Frequency (MHz)	100.60		
Nucleus	13C	Number of Transients	1024	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10052.8125
Sweep Width (Hz)	24037.73	Temperature (degree C)	25.000	Spectrum Type	STANDARD



No.	(ppm)	(Hz)	Height
1	19.13	1924.2	0.2521
2	26.75	2690.8	0.6509
3	30.50	3068.6	0.0458
4	30.52	3070.1	0.0862
5	30.53	3071.5	0.0407
6	51.53	5183.6	0.2488
7	62.36	6273.0	0.1910



Acquisition Time (sec)	1.3631	Comment	EJT-PRM146 prod alkene mCARBON_B CDCl3 (e:\bruk400cdata\2014\Apr) ejt 24				
Date	03 Apr 2014 19:05:52	Date Stamp	03 Apr 2014 19:05:52				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2014\Apr\data\ejt\nmr\2014-04-03-ejt-24\10\fid			Frequency (MHz)	100.60		
Nucleus	13C	Number of Transients	1024	Origin	spect	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	45.20
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10052.8125	Spectrum Type	STANDARD
Sweep Width (Hz)	24037.73	Temperature (degree C)	25.000				

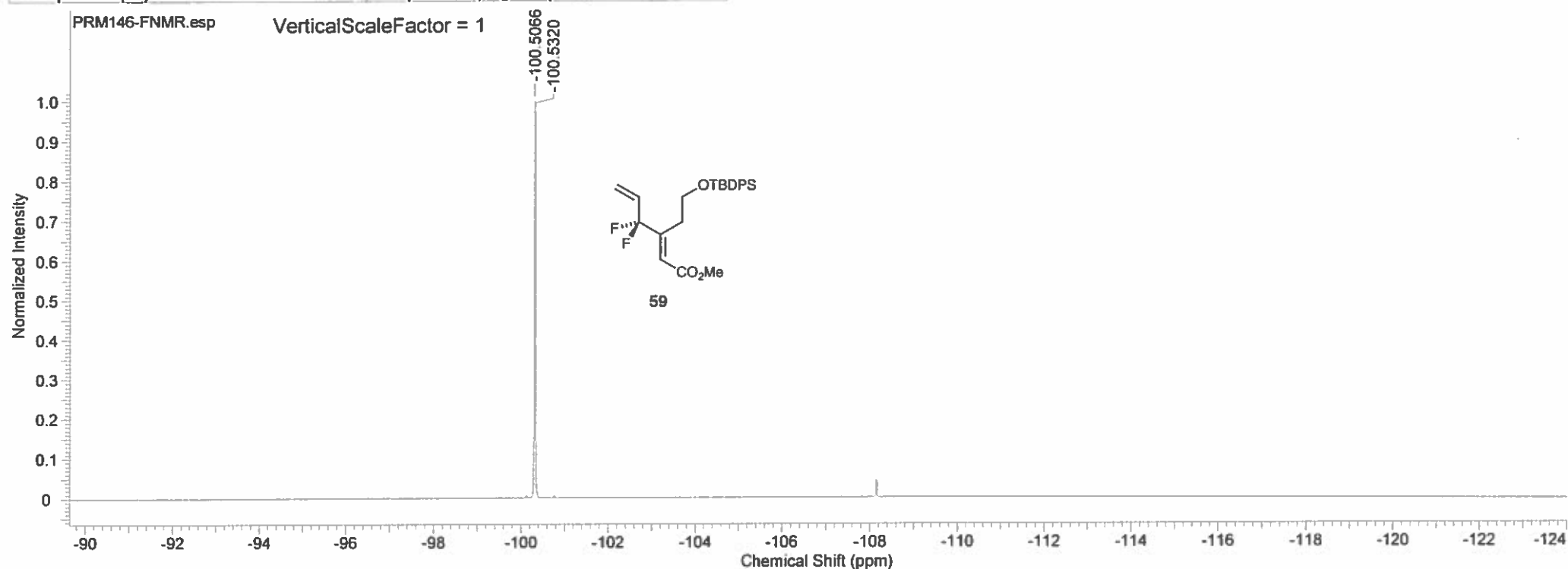


No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	19.13	1924.2	0.2521	5	30.53	3071.5	0.0407	9	118.69	11940.0	0.0403	13	121.10	12182.1	0.0171
2	26.75	2690.8	0.6509	6	51.53	5183.6	0.2488	10	120.78	12149.8	0.0338	14	121.14	12186.5	0.0241
3	30.50	3068.6	0.0458	7	62.36	6273.0	0.1910	11	120.86	12158.6	0.1039	15	121.22	12194.5	0.0676
4	30.52	3070.1	0.0862	8	116.28	11697.9	0.0158	12	120.96	12168.1	0.0228	16	121.31	12203.3	0.0440

No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	19.13	1924.2	0.2521	6	51.53	5183.6	0.2488	11	120.86	12158.6	0.1039	16	121.31	12203.3	0.0440	21	131.65	13243.6	0.0470
2	26.75	2690.8	0.6509	7	62.36	6273.0	0.1910	12	120.96	12168.1	0.0228	17	127.59	12835.0	1.0000	22	133.68	13447.5	0.1445
3	30.50	3068.6	0.0458	8	116.28	11697.9	0.0158	13	121.10	12182.1	0.0171	18	129.55	13032.3	0.2574	23	135.59	13639.7	0.7165
4	30.52	3070.1	0.0862	9	118.69	11940.0	0.0403	14	121.14	12186.5	0.0241	19	131.08	13186.4	0.0393				
5	30.53	3071.5	0.0407	10	120.78	12149.8	0.0338	15	121.22	12194.5	0.0676	20	131.36	13215.0	0.0929				

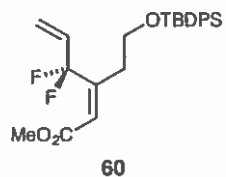


Acquisition Time (sec)	0.7340	Comment	EJT-PRM146 phosphoranylidene f14-24 20mg mF19_cryo CDCl3 (e:\bruk400cdata\2014\Apr)\ejt 42		
Date	01 Apr 2014 12:29:04	Date Stamp	01 Apr 2014 12:29:04		
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2014\Apr\data\ejt\nmr\2014-04-01-ejt-42\1\fid			Frequency (MHz)	376.44
Nucleus	19F	Number of Transients	4	Origin	spect
Owner	nmrsu	Points Count	65536	Pulse Sequence	zg
SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37644.8594
Sweep Width (Hz)	89284.35	Temperature (degree C)	25.000	Spectrum Type	STANDARD



No.	(ppm)	(Hz)	Height
1	-100.53	-37844.4	0.9733
2	-100.51	-37834.9	1.0000

EJT-PRM146 isomer data  
mPROTON\_A\_night CDCl3 {e:\bruk400cdata\2014\Apr} ejt 18

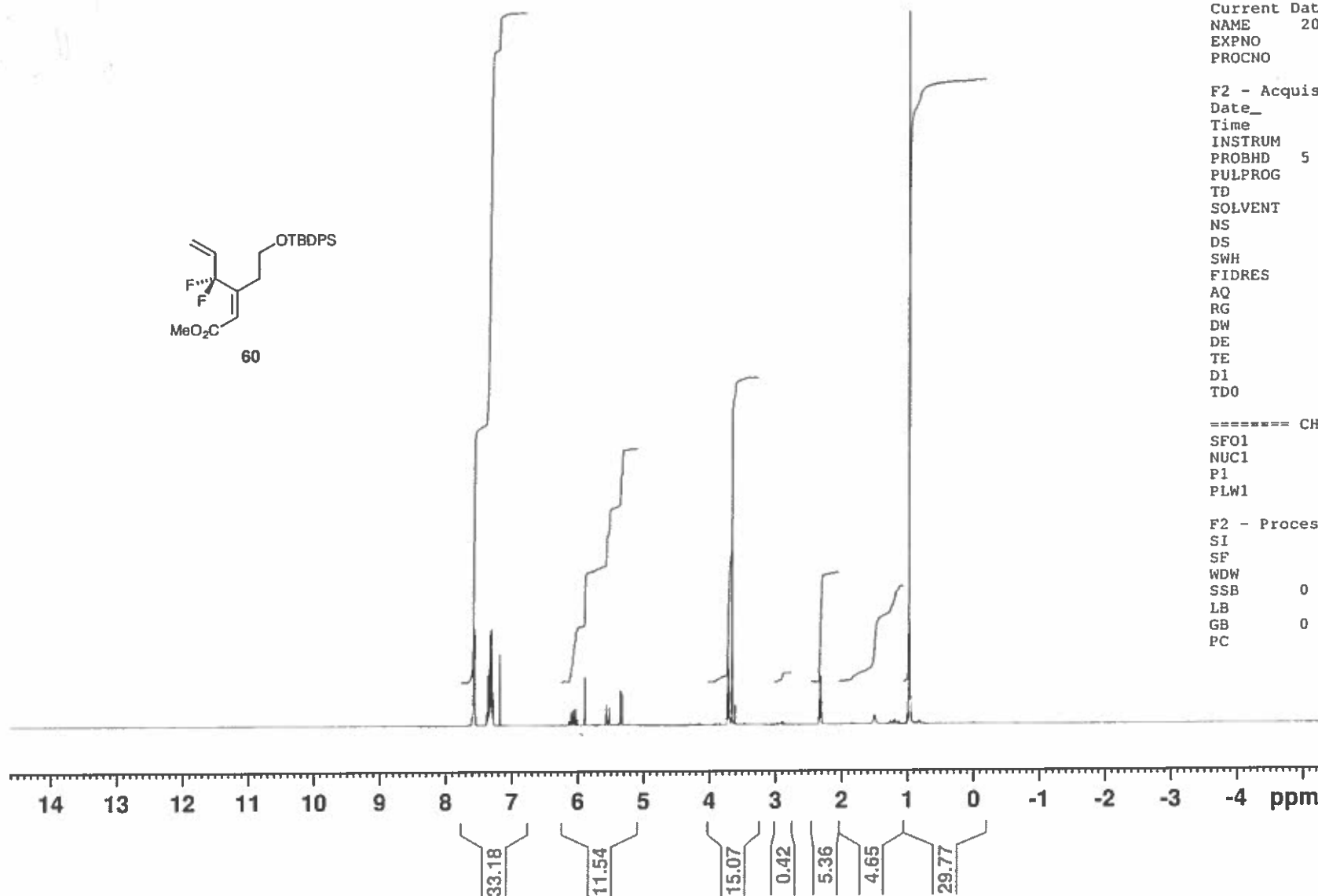


Current Data Parameters  
NAME 2014-04-29-ejt-18  
EXPNO 11  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140430  
Time 3.52  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 2  
SWH 8223.685 Hz  
FIDRES 0.125483 Hz  
AQ 3.9845889 sec  
RG 114  
DW 60.800 usec  
DE 10.00 usec  
TE 298.0 K  
D1 1.00000000 sec  
TD0 1

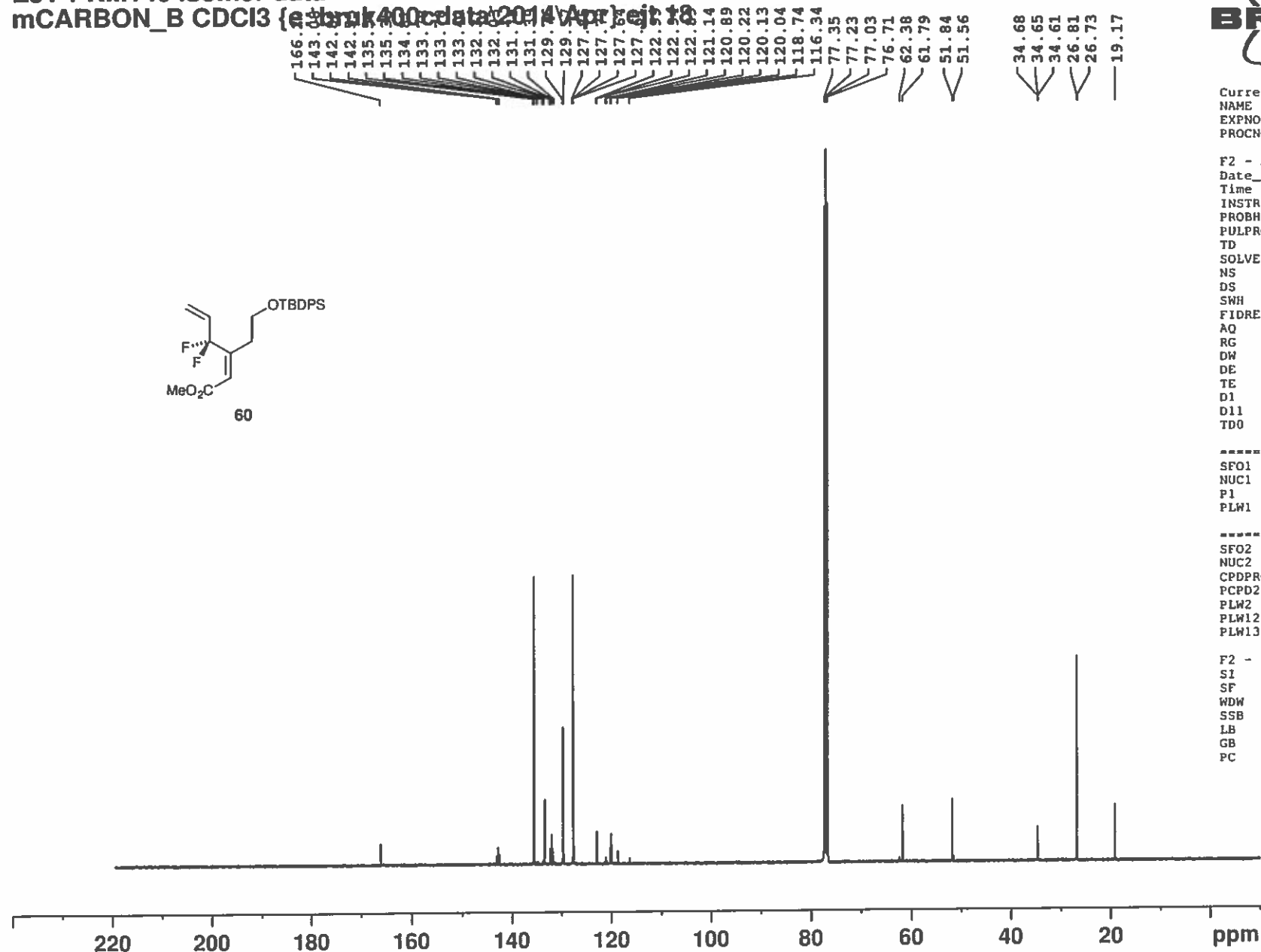
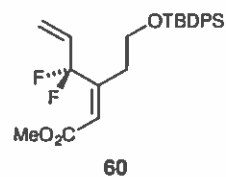
===== CHANNEL f1 =====  
SF01 400.0718803 MHz  
NUC1 1H  
P1 12.00 usec  
PLW1 7.40000010 W

F2 - Processing parameters  
SI 32768  
SF 400.0700399 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



## EJT-PRM146 isomer data

mCARBON\_B CDCl3 (a Bruker 400c data 2014 Apr) ejt-18



Current Data Parameters  
 NAME 2014-04-29-ejt-18  
 EXPNO 10  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20140430  
 Time 3.49  
 INSTRUM spect  
 PROBHD 5 mm CPPBBO BB  
 PULPROG zgpg30  
 TD 65536  
 SOLVENT CDCl3  
 NS 1024  
 DS 4  
 SWH 24038.461 Hz  
 FIDRES 0.366798 Hz  
 AQ 1.3631488 sec  
 RG 45.2  
 DW 20.800 usec  
 DE 41.77 usec  
 TE 298.0 K  
 D1 2.00000000 sec  
 D11 0.03000000 sec  
 TDO 1

----- CHANNEL f1 -----  
 SFO1 100.6077379 MHz  
 NUC1 13C  
 P1 10.00 usec  
 PLW1 33.00000000 W

----- CHANNEL f2 -----  
 SFO2 400.0716003 MHz  
 NUC2 1H  
 CPDPRG12 waltz16  
 PCPD2 80.00 usec  
 PLW2 7.40000010 W  
 PLW12 0.17209999 W  
 PLW13 0.11014000 W

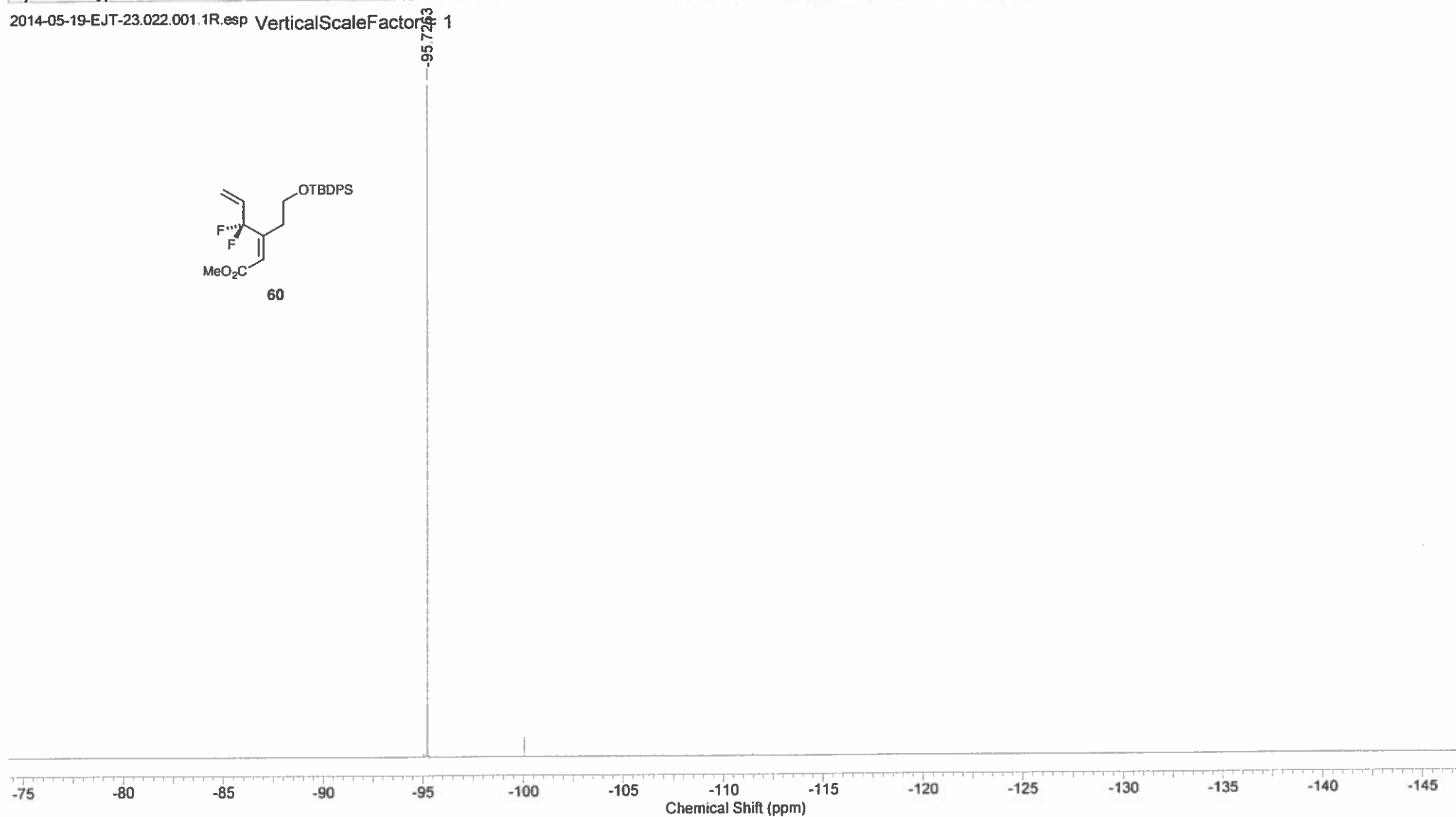
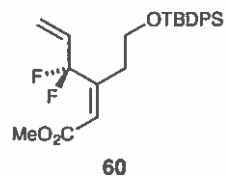
F2 - Processing parameters  
 SI 32768  
 SF 100.5976815 MHz  
 WDW EM  
 SSB 0  
 LB 1.00 Hz  
 GB 0  
 PC 1.40

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Acquisition Time (sec)	0.7340	Comment	EJT-PRM146 f44-48 40mg mF19CPD CDCl3 (e:\bruk400data\2014\May) ejt 23		
Date	19 May 2014 19:08:00	Date Stamp	19 May 2014 19:08:00		
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400DATA\2014\MAY\DATA\EJT\NMR\2014-05-19-EJT-23\22\PD\DATA\1\1R				
Frequency (MHz)	376.50	Nucleus	19F	Number of Transients	16
Original Points Count	65536	Owner	Administrator	Points Count	262144
Receiver Gain	4100.00	SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d
Spectrum Type	STANDARD	Sweep Width (Hz)	89285.37	Temperature (degree C)	22.600
				Origin	AV400
				Pulse Sequence	zgig
				Spectrum Offset (Hz)	-37649.5977

2014-05-19-EJT-23.022.001.1R.esp VerticalScaleFactor 1

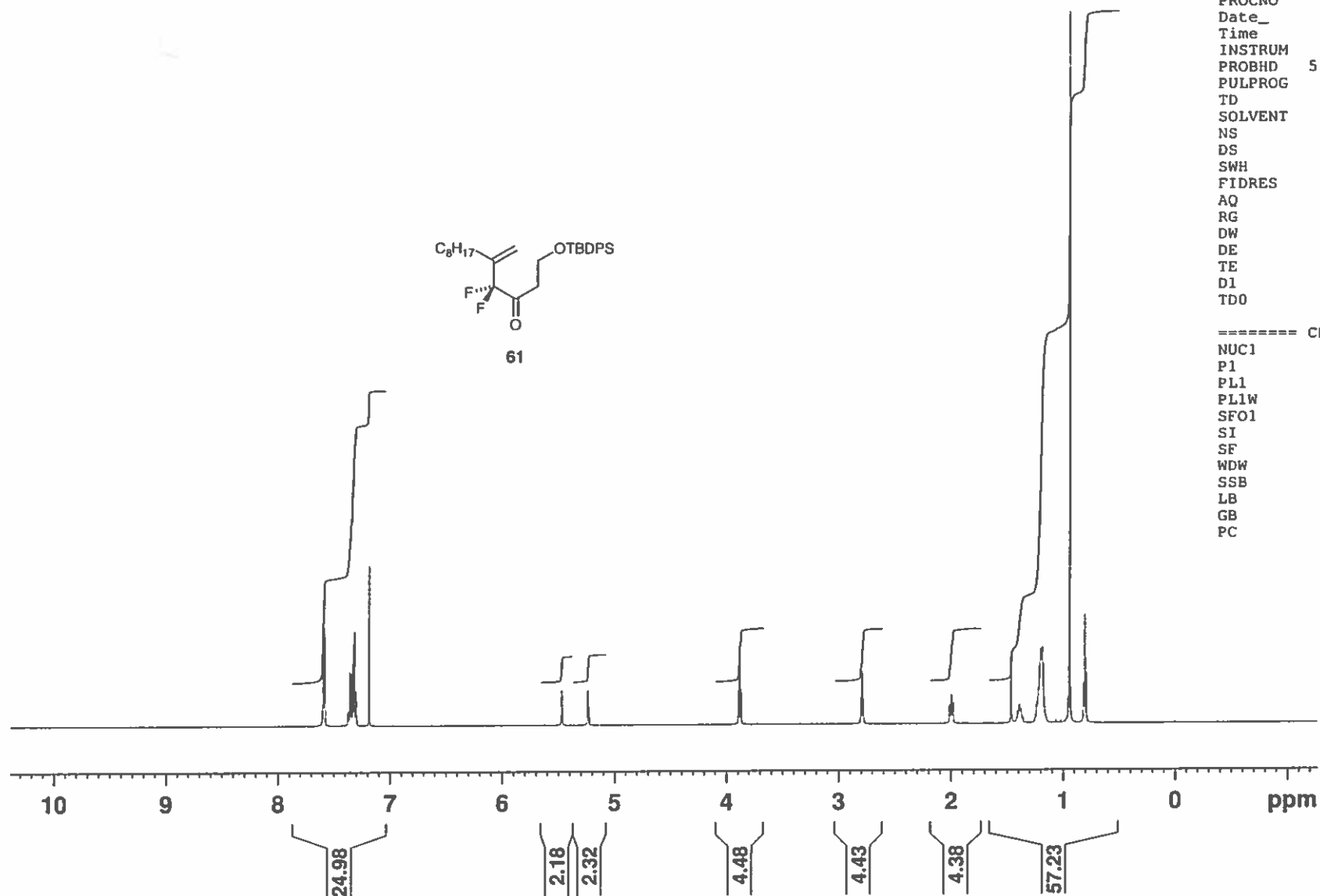




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===== CHANNEL f1 =====
NUC1                      1H
P1                        10.00 usec
PL1                      -0.10 dB
PL1W                    26.21803665 W
SFO1                    500.1330885 MHz
SI                       32768
SF                      500.1300498 MHz
WDW                      EM
SSB                      0
LB                       0.30 Hz
GB                      0
PC                       1.00

```





EJT-PRM132 f11-19 55mg

mCARBON\_B @CDCl3 (e-jt-400cdata 2014 Mar) ejt-34



198.198.198.141.141.140.140.135.135.135.133.133.133.132.130.129.129.127.127.127.118.118.117.117.117.116.113.83.77.77.77.76.70.64.58.53.39.31.29.29.29.29.27.27.27.26.26.26.23.23.23

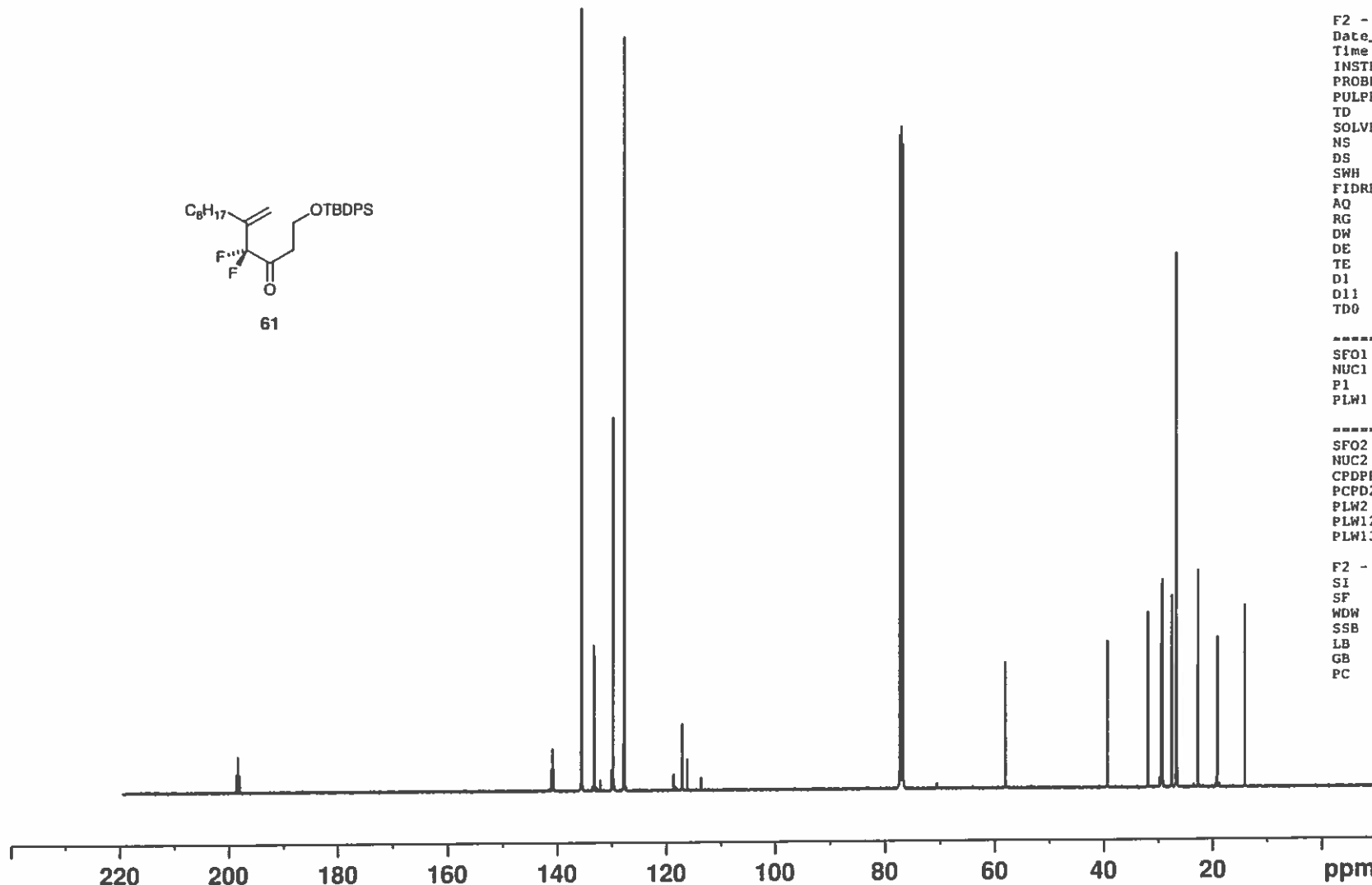
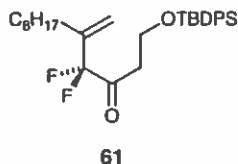
Current Data Parameters  
NAME 2014-03-05-ejt-34  
EXPNO 11  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140306  
Time 2.59  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 1024  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 45.2  
DW 20.800 usec  
DE 41.77 usec  
TE 298.0 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

----- CHANNEL f1 -----  
SFO1 100.6077379 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

----- CHANNEL f2 -----  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRG2 waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

F2 - Processing parameters  
SI 32768  
SF 100.5976815 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



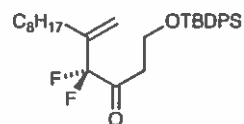
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Acquisition Time (sec)	0.5767	Comment	EJT-PRM132 f5-10 7mg m19F CDCl3 /opt/oldbruk500data.11vii11/2014/Mar ejt 28				
Date	03 Mar 2014 14:21:52	Date Stamp	03 Mar 2014 14:21:52				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2014\MAR\DATA\EJT\NMR\2014-03-03-EJT-28\11\PDATA\1\1R						
Frequency (MHz)	470.59	Nucleus	19F	Number of Transients	16	Origin	spec1
Original Points Count	65536	Owner	vnmr1	Points Count	65536	Pulse Sequence	zgfgn
Receiver Gain	362.00	SW(cyclical) (Hz)	113636.37	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-47059.0234
Spectrum Type	STANDARD	Sweep Width (Hz)	113634.63	Temperature (degree C)	27.000		

PRM132-FNMR.esp

VerticalScaleFactor = 1

-109.7398



61

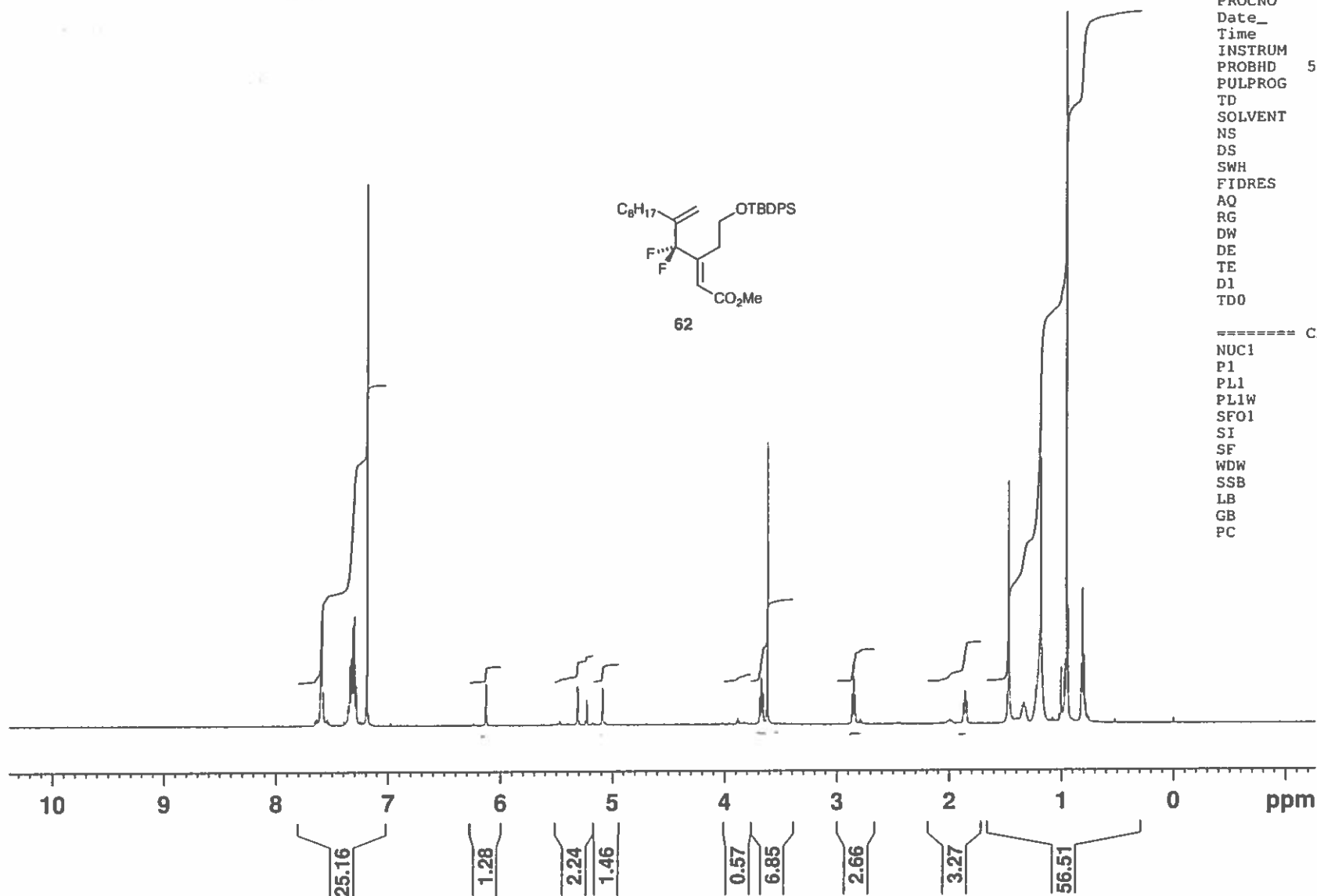
-92 -94 -96 -98 -100 -102 -104 -106 -108 -110 -112 -114 -116 -118 -120 -122 -124 -126 -128 -130 -132 -134 -136 -138 -140  
Chemical Shift (ppm)

EJT-PRM133 f16-21 4mg  
mPROTON CDCl3 /opt/oldbruk500data.11vii11/2014/Mar ejt 7



NAME 2014-03-07-ejt-7  
EXPNO 10  
PROCNO 1  
Date\_ 20140307  
Time 15.20  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 287  
DW 48.400 usec  
DE 13.00 usec  
TE 298.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -0.10 dB  
PL1W 26.21803665 W  
SFO1 500.1330885 MHz  
SI 32768  
SF 500.1300487 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



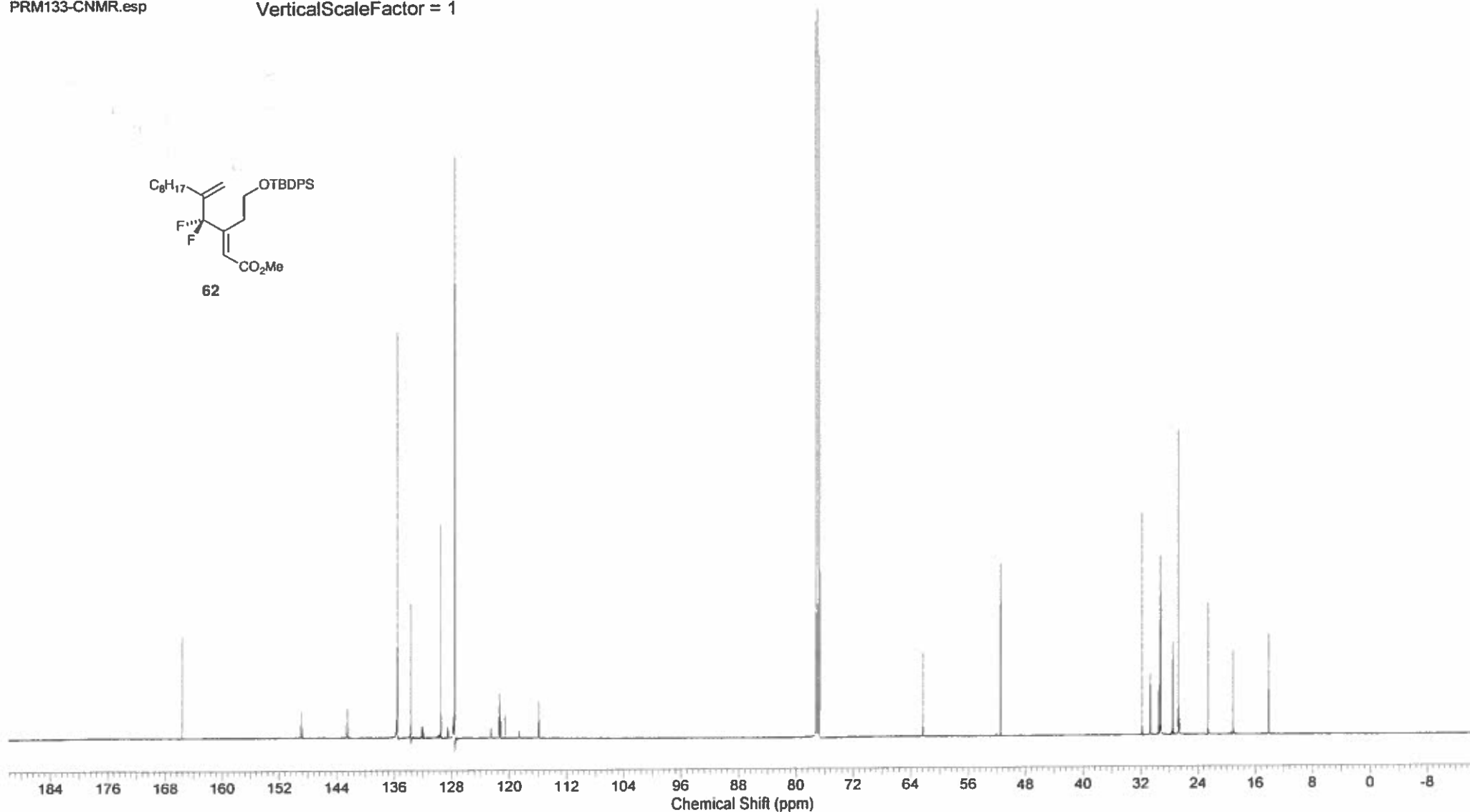
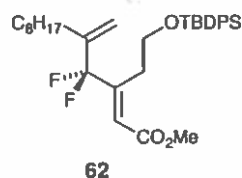
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This report was created by ACD/NAME Processor Academic Edition. For more information go to [www.acadab.com/nmr/proc/](http://www.acadab.com/nmr/proc/)

Acquisition Time (sec)	1.1010	Comment	P. Mears EJT-PRM133prod 0614-032 mCARBON CDCl3 (E:\bruk500cdata\2014Jun) staff 42				
Date	20 Jun 2014 07:19:44	Date Stamp	20 Jun 2014 07:19:44				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2014Jun\data\staff\nmr\2014-06-19-staff-42\12Vid						
Nucleus	13C	Number of Transients	10240	Origin	spect	Frequency (MHz)	125.77
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Original Points Count	32768
SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	12568.6943	Receiver Gain	184.40
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.159			Spectrum Type	STANDARD

PRM133-CNMR.esp

VerticalScaleFactor = 1

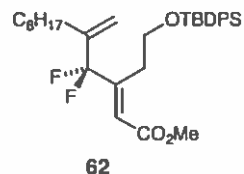


This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	0.7340	Comment	EJT-PRM133 f14-21 17mg mF19CPD CDCl3 (e:\bruk400adata\2014\Jun) ejt 28		
Date	17 Jun 2014 12:50:24	Date Stamp	17 Jun 2014 12:50:24		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2014\Jun\data\ejt\nmr\2014-06-17-ejt-28\12Vid			Frequency (MHz)	376.50
Nucleus	19F	Number of Transients	16	Origin	AV400
Owner	nrmru	Points Count	65536	Pulse Sequence	zgig
SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37649.5977
Sweep Width (Hz)	89284.35	Temperature (degree C)	22.400	Spectrum Type	STANDARD

PRM133-F{H}NMR.esp

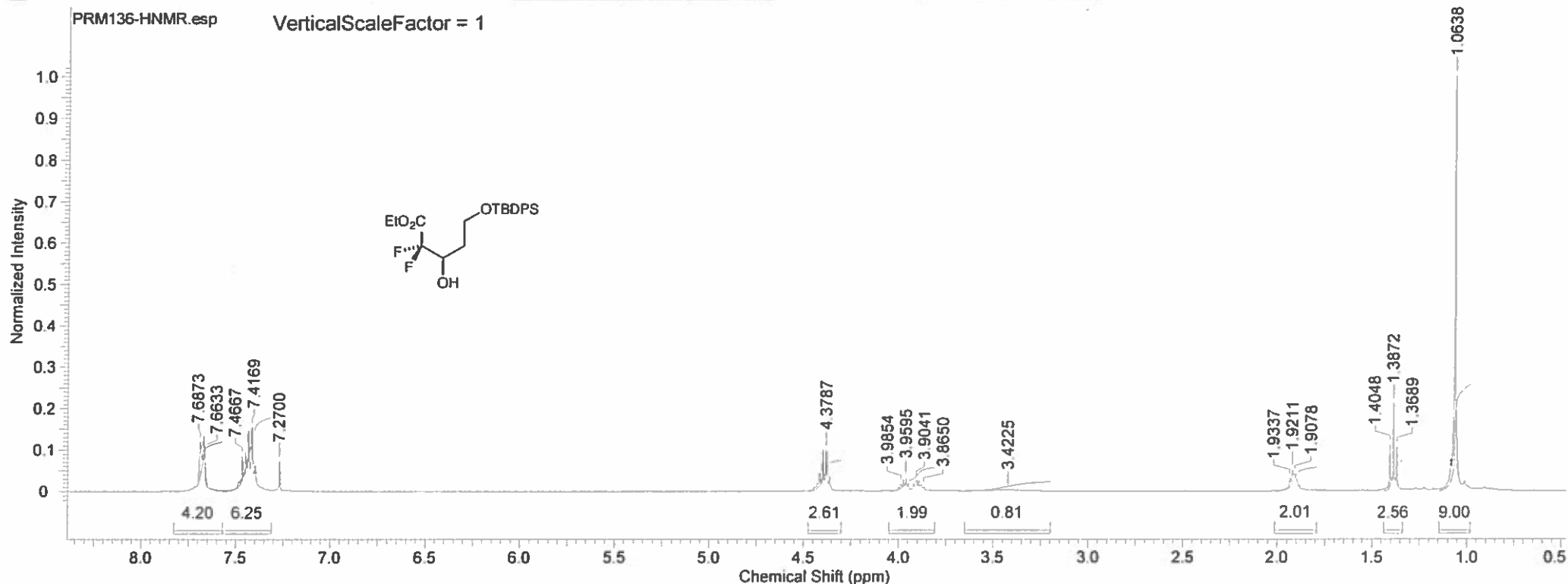
VerticalScaleFactor = 1



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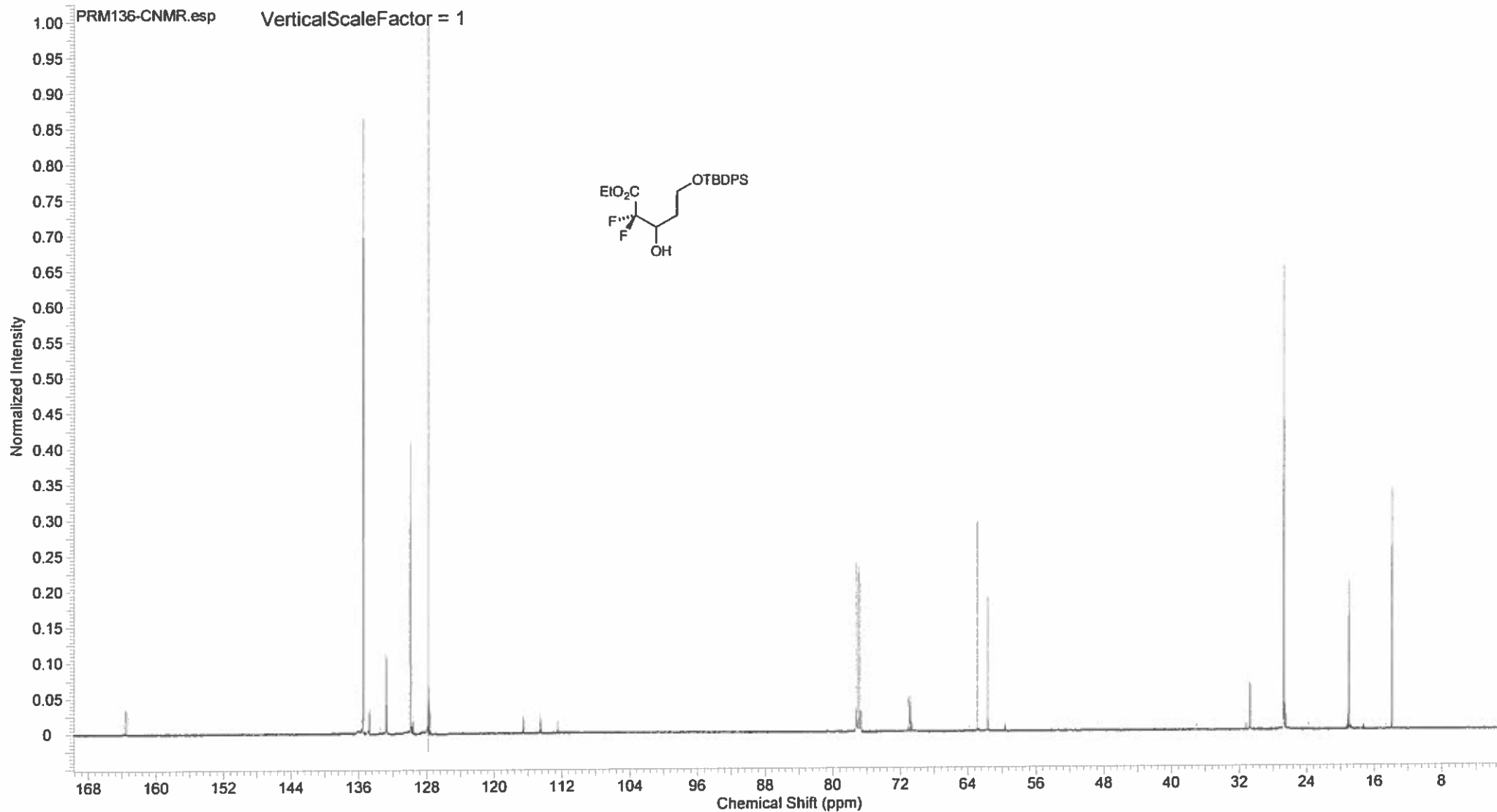


Acquisition Time (sec)	3.9649	Comment	EJT-PRM136 prod mPROTON CDCl3 {e:\bruk400data\2014\Mar} ejt 44	Date	14 Mar 2014 11:46:08
Date Stamp	14 Mar 2014 11:46:08	File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400DATA\2014\MAR\DATA\EJTWNR\2014-03-14-EJT-44\10\PDATA\1\1R		
Frequency (MHz)	400.13	Nucleus	1H	Number of Transients	16
Original Points Count	32768	Owner	Administrator	Points Count	32768
Receiver Gain	128.00	SW(cyclical) (Hz)	8264.46	Solvent	CHLOROFORM-d
Spectrum Type	STANDARD	Sweep Width (Hz)	8264.21	Temperature (degree C)	21.400
				Origin	AV400
				Pulse Sequence	zg30b
				Spectrum Offset (Hz)	2464 6750

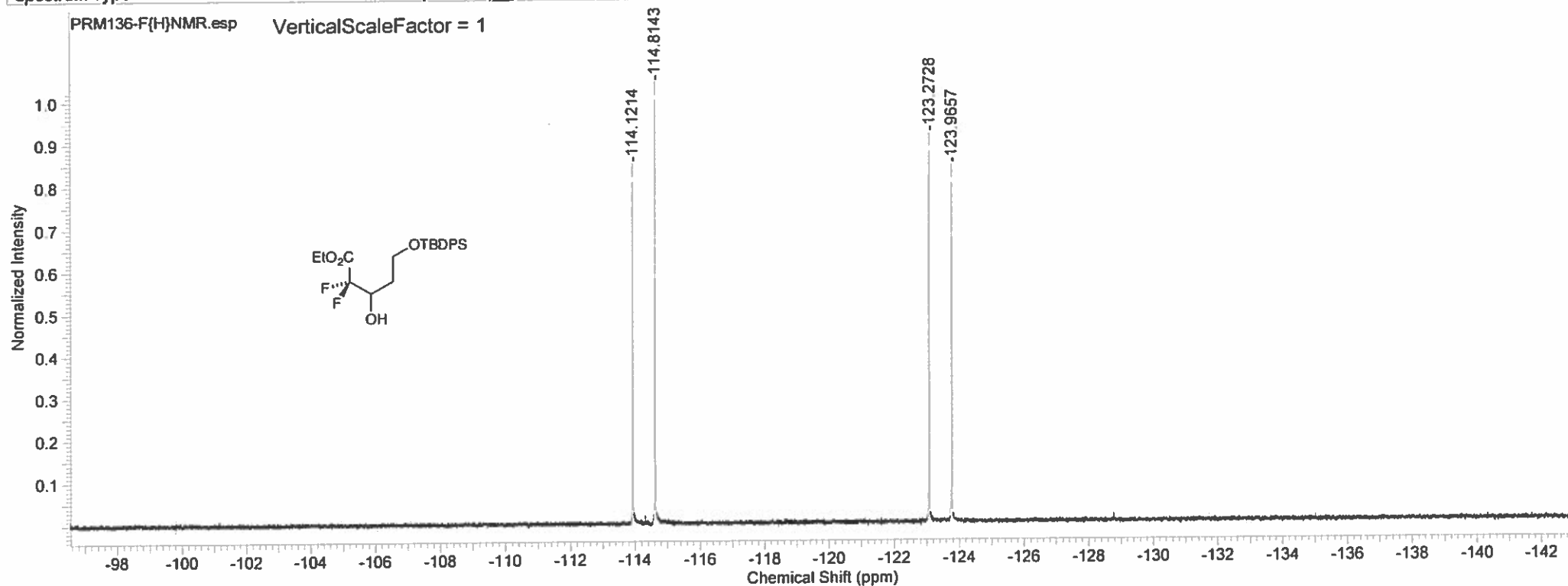


No.	(ppm)	Value	Absolute Value	Non-Negative Value
1	3815 .. 1.148	99984264	1.72771696e+8	8.99984264
2	3378 .. 1.432	56114244	4.91667400e+7	2.56114244
3	934 .. 2.012	00694013	3.85276120e+7	2.00694013
4	1978 .. 3.650	80761468	1.55039330e+7	0.80761468
5	3076 .. 4.04	1.98614478	3.81284000e+7	1.98614478
6	3008 .. 4.472	61058092	5.01158200e+7	2.61058092
7	3095 .. 7.566	25181770	1.20017336e+8	6.25181770
8	5699 .. 7.824	1.9923115	8.06134400e+7	4.19923115

Acquisition Time (sec)	1.0912	Comment	EJT-PRM136 Prod data mCARBONnight CDCI3 (F:\bruk500_b_data\2014\Mar) ejt 59				
Date	21 Mar 2014 21:41:20	Date Stamp	21 Mar 2014 21:41:20				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmr\data\bruk500\data\2014\Mar\data\ejt-59\10\vid					Frequency (MHz)	125.76
Nucleus	13C	Number of Transients	3096	Origin	spect	Original Points Count	32768
Owner	Administrator	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	5792.60
SW(cyclical) (Hz)	30030.03	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	12566.0234	Spectrum Type	STANDARD
Sweep Width (Hz)	30029.11	Temperature (degree C)	25.000				



Acquisition Time (sec)	0.7340	Comment	EJT-PRM136 prod mF19CPD CDCl3 (e:\bruk400data\2014\Mar) ejt 44		Date	14 Mar 2014 11:46:08	
Date Stamp	14 Mar 2014 11:46:08	File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400DATA\2014\MAR\DATA\EJT\NMR\2014-03-14-EJT-44\11\PDATA\1\1R				
Frequency (MHz)	376.50	Nucleus	19F	Number of Transients	16	Origin	AV400
Original Points Count	65536	Owner	Administrator	Points Count	262144	Pulse Sequence	zgig
Receiver Gain	4100.00	SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37649.5977
Spectrum Type	STANDARD	Sweep Width (Hz)	89285.37	Temperature (degree C)	21.600		



No.	(ppm)	(Hz)	Height
1	-123.97	-46672.9	0.8015
2	-123.27	-46412.0	0.8765
3	-114.81	-43227.4	1.0000
4	-114.12	-42966.5	0.8086

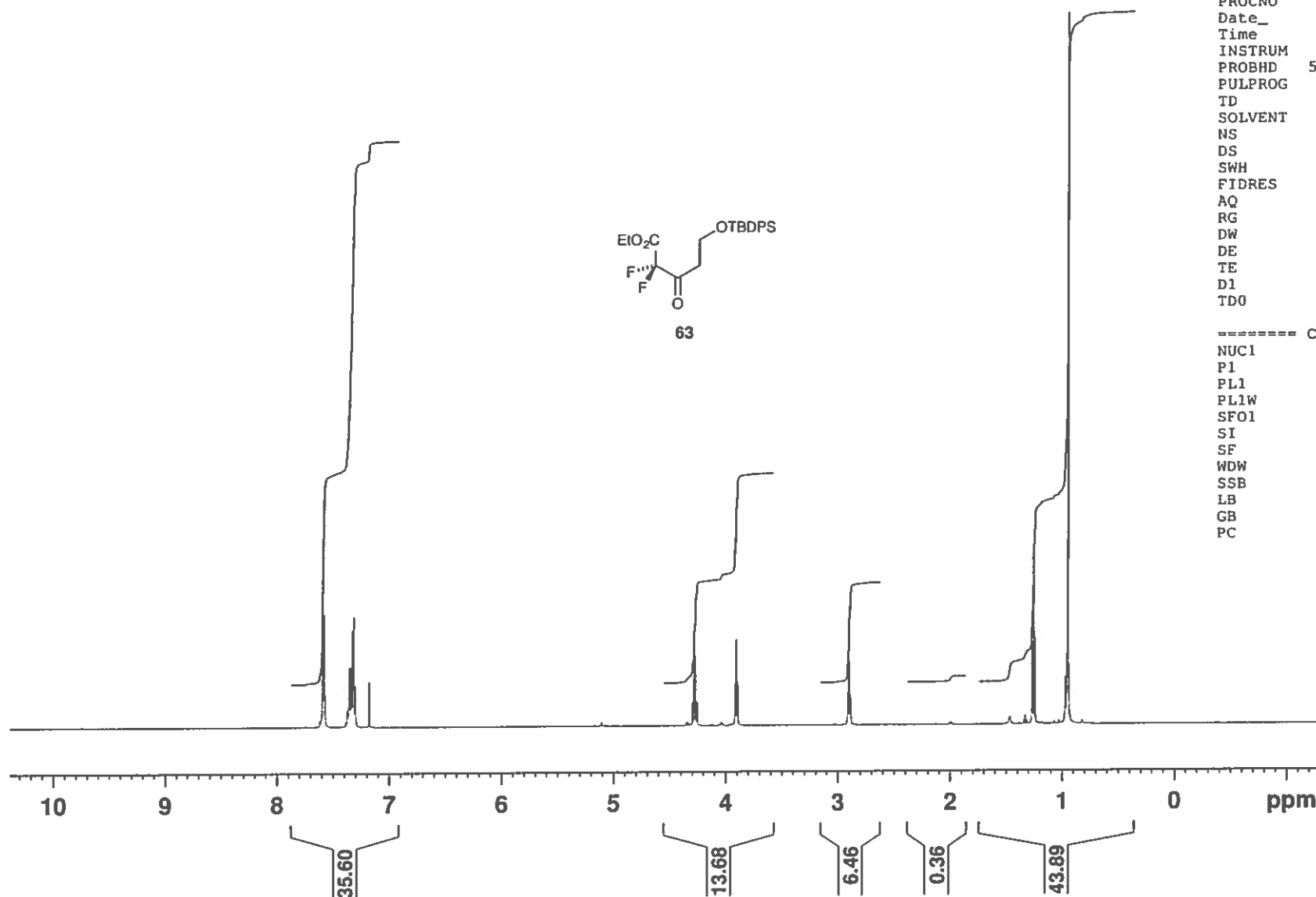
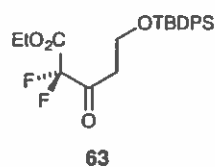


EJT-PRM137 DMP f21-26 22mg  
mPROTON CDCl3 /opt/oldbruk500data.11vii11/2014/Mar ejt 56



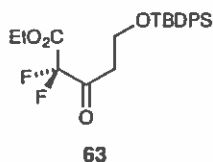
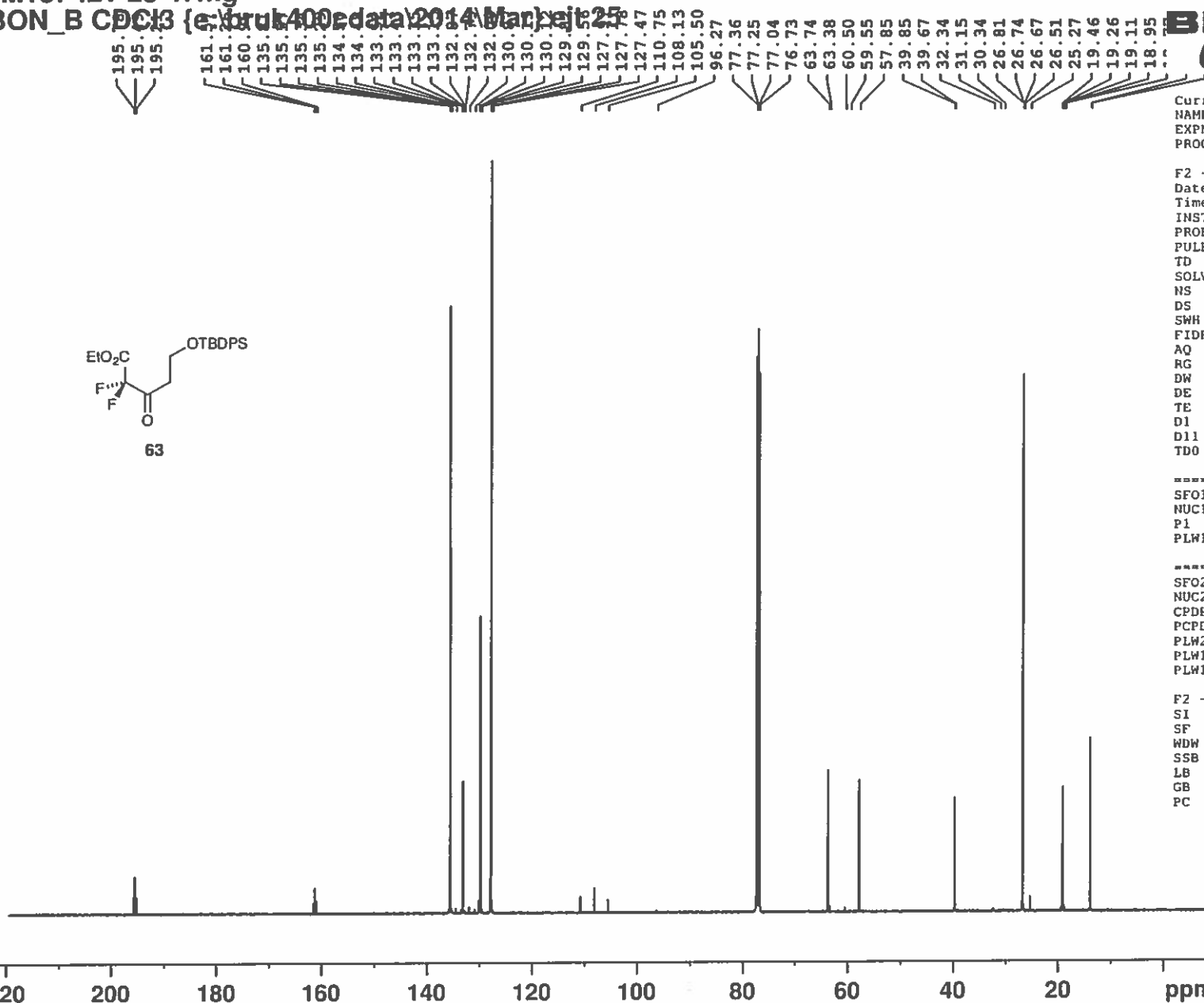
NAME 2014-03-14-ejt-56  
EXPNO 10  
PROCNO 1  
Date\_ 20140314  
Time 15.04  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 90.5  
DW 48.400 usec  
DE 13.00 usec  
TE 298.1 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 10.00 usec  
PL1 -0.10 dB  
PL1W 26.21803665 W  
SF01 500.1330885 MHz  
SI 32768  
SF 500.1300535 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



EJT-PRM137 f21-28 47mg

mCARBON\_B CDCl3 (e:\bruk400\data\2014\Mar\ejt-25



Current Data Parameters  
 NAME 2014-03-17-ejt-25  
 EXPNO 10  
 PROCNO 1

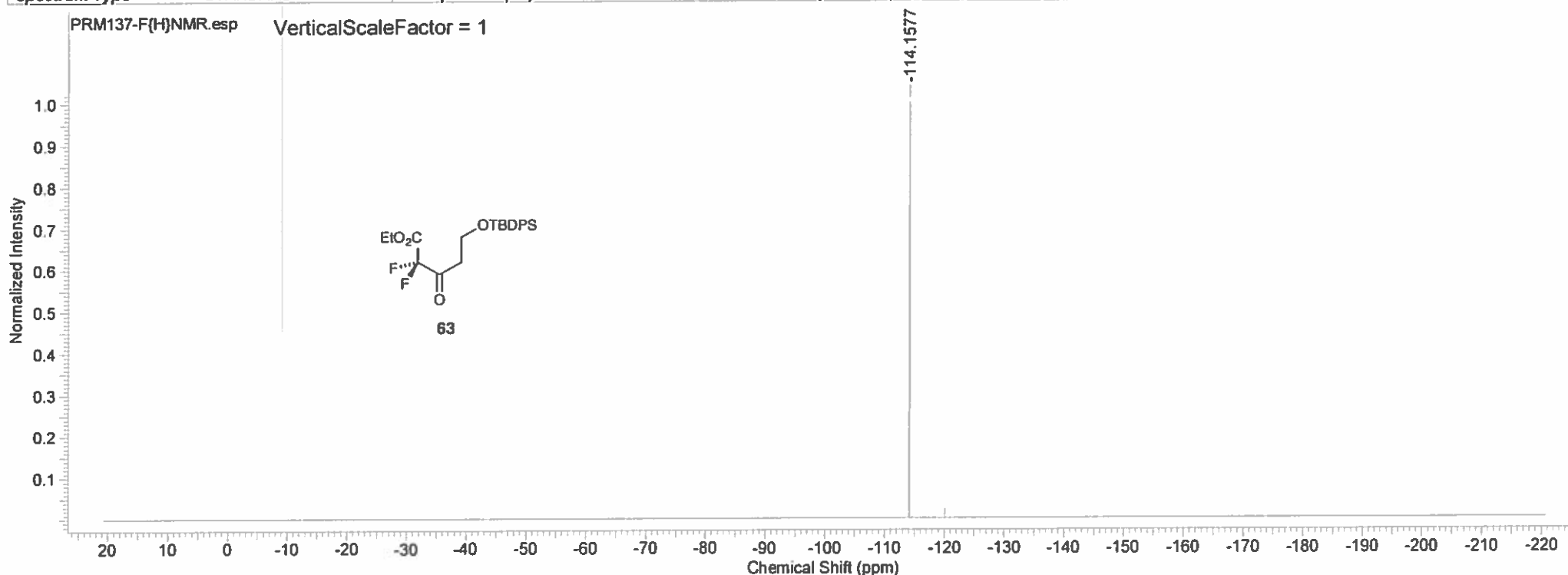
F2 - Acquisition Parameters  
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 Time 23.20  
 INSTRUM spect  
 PROBHD 5 mm CPPBBO BB  
 PULPROG zgpg30  
 TD 65536  
 SOLVENT CDCl3  
 NS 1024  
 DS 4  
 SWH 24038.461 Hz  
 FIDRES 0.366798 Hz  
 AQ 1.3631488 sec  
 RG 45.2  
 DW 20.800 usec  
 DE 41.77 usec  
 TE 298.0 K  
 D1 2.00000000 sec  
 D11 0.03000000 sec  
 TDO 1

===== CHANNEL f1 =====  
 SFO1 100.6077379 MHz  
 NUC1 13C  
 P1 10.00 usec  
 PLW1 33.00000000 W

===== CHANNEL f2 =====  
 SFO2 400.0716003 MHz  
 NUC2 1H  
 CPDPRG12 waltz16  
 PCPD2 80.00 usec  
 PLW2 7.40000010 W  
 PLW12 0.17209999 W  
 PLW13 0.11014000 W

F2 - Processing parameters  
 SI 32768  
 SF 100.5976815 MHz  
 WDW EM  
 SSB 0  
 LB 1.00 Hz  
 GB 0  
 PC 1.40

Acquisition Time (sec)	0.5767	Comment	EJT-PRM137 DMP f21-26 22mg m19FCPD CDCl3 /opt/oldbruk500data.11vii11/2014/Mar ejt 56				
Date	14 Mar 2014 15:08:48	Date Stamp	14 Mar 2014 15:08:48				
File Name	\\ss7a.ds.man.ac.uk\vol5VOL3\USERS\SNMRDATA\BRUK500DATA\BRUK500DATA\2014\MAR\DATA\EJT\NMR\2014-03-14-EJT-56\12\PDATA\111R						
Frequency (MHz)	470.59	Nucleus	19F	Number of Transients	16	Origin	spect
Original Points Count	65536	Owner	vnmr1	Points Count	65536	Pulse Sequence	zgfhigqn
Receiver Gain	912.00	SW(cyclical) (Hz)	113636.37	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-47059.0234
Spectrum Type	STANDARD	Sweep Width (Hz)	113634.63	Temperature (degree C)	27.000		



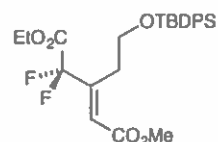
No.	(ppm)	(Hz)	Height
1	-114.16	-53721.7	1.0000

EJT-PRM147 f17-27 31mg  
mPROTON CDCl3 {e:\bruk400data\2014\Apr} ejt 50

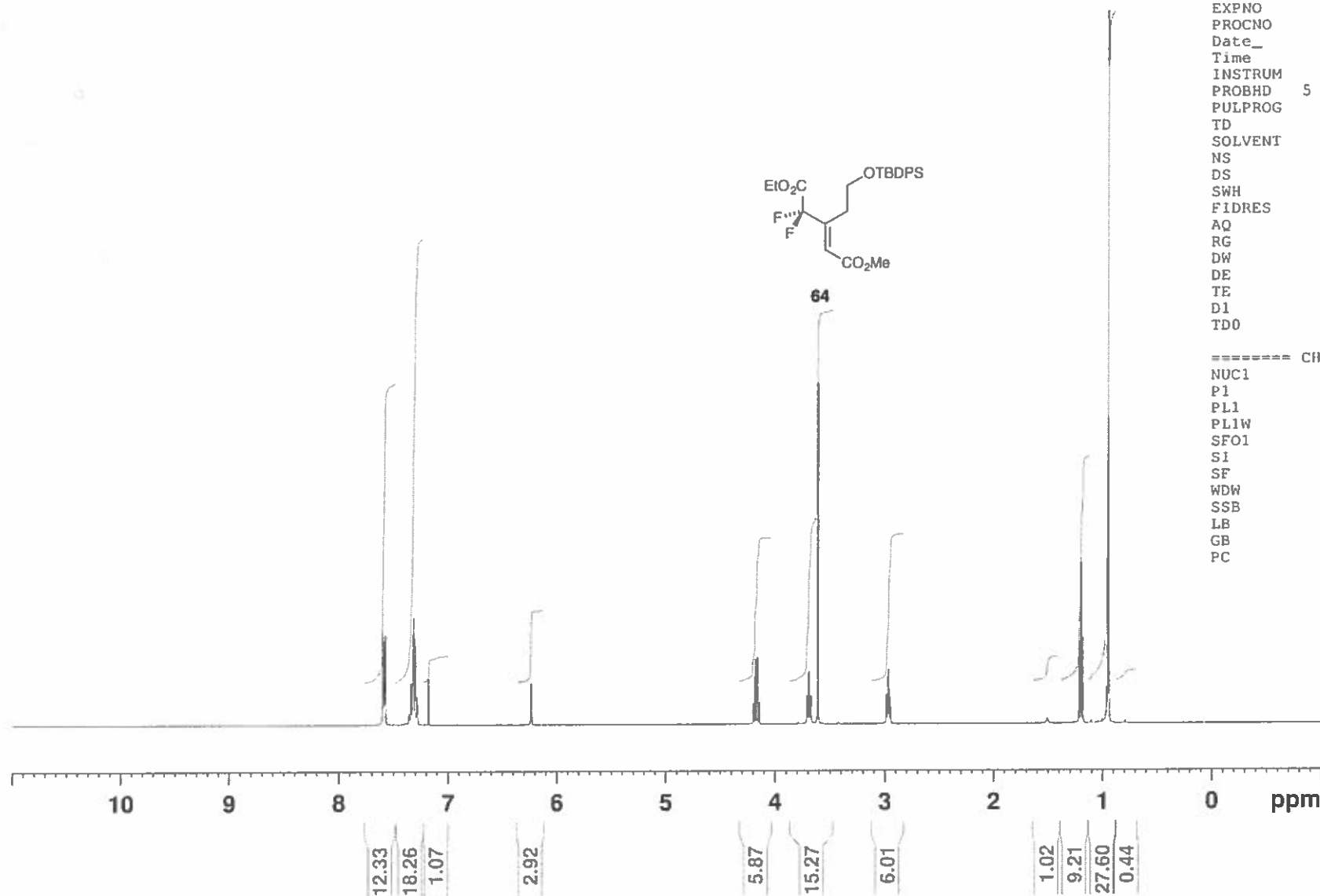


NAME 2014-04-05-ejt-50  
EXPNO 10  
PROCNO 1  
Date\_ 20140405  
Time 11.59  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 128  
DW 60.500 usec  
DE 8.45 usec  
TE 294.6 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 14.50 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300416 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



64



EJT-PRM147 prod data

13C NMR of compound 64 in CDCl3, Bruker 400 data 2014 Apr ejt-10



165.1  
163.1  
162.1  
146.1  
146.1  
145.1  
135.1  
135.1  
135.1  
133.1  
133.1  
133.1  
133.1  
129.1  
129.1  
129.1  
128.1  
128.1  
127.1  
127.1  
127.1  
127.1  
123.1  
123.1  
115.1  
113.1  
110.64  
77.26  
77.06  
76.74  
63.46  
62.02  
51.70  
31.96  
30.13  
29.73  
29.39  
28.67  
27.63  
26.92  
26.90  
26.75  
26.62  
26.59  
26.42  
26.33  
26.05  
25.94  
25.92  
25.89  
22.72  
19.50  
19.30  
19.16  
18.99  
18.81

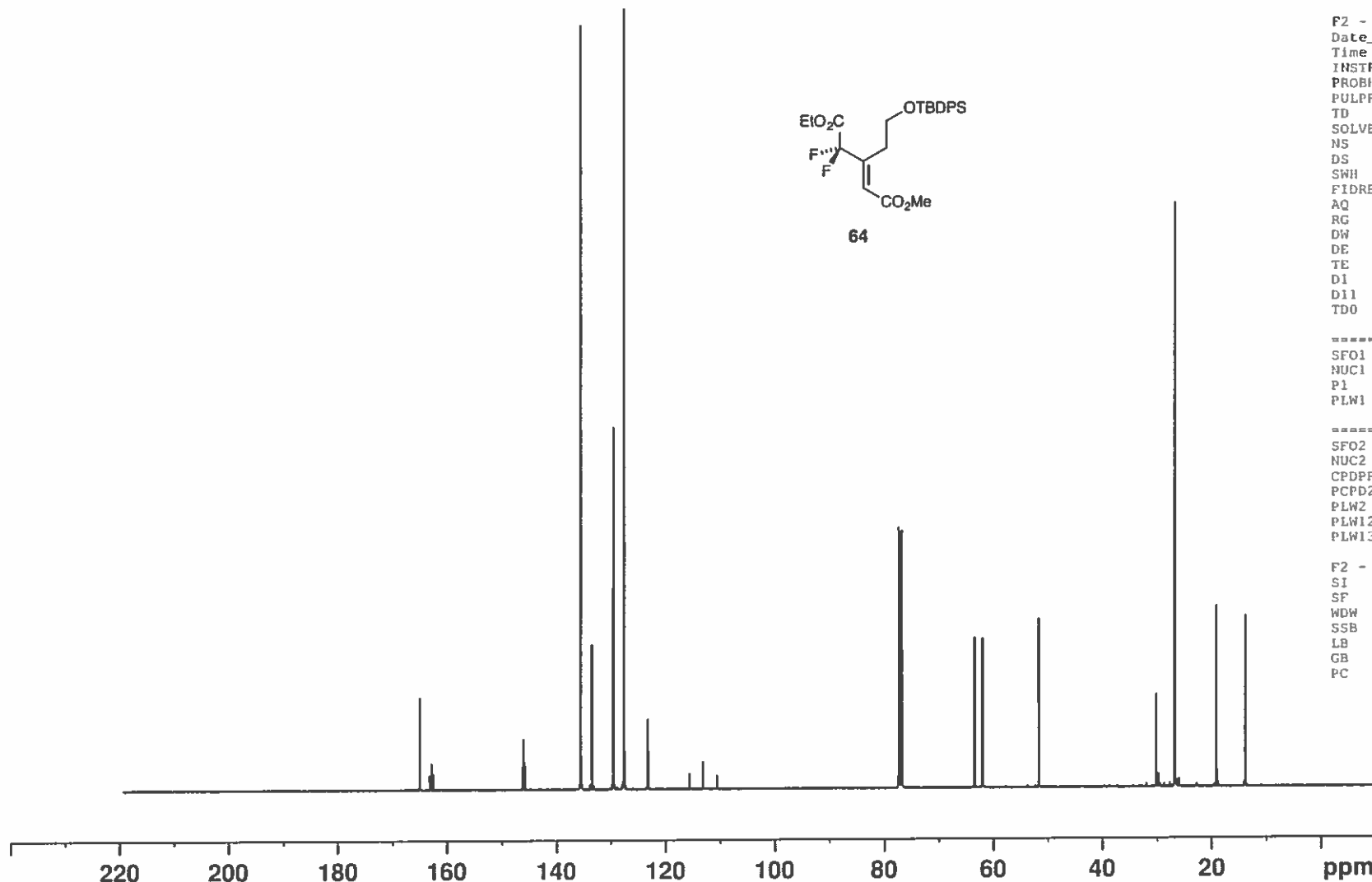
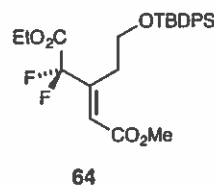
Current Data Parameters  
NAME 2014-04-06-ejt-10  
EXPNO 10  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140406  
Time 20.53  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDC13  
NS 1024  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 45.2  
DW 20.800 usec  
DE 41.77 usec  
TE 298.0 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

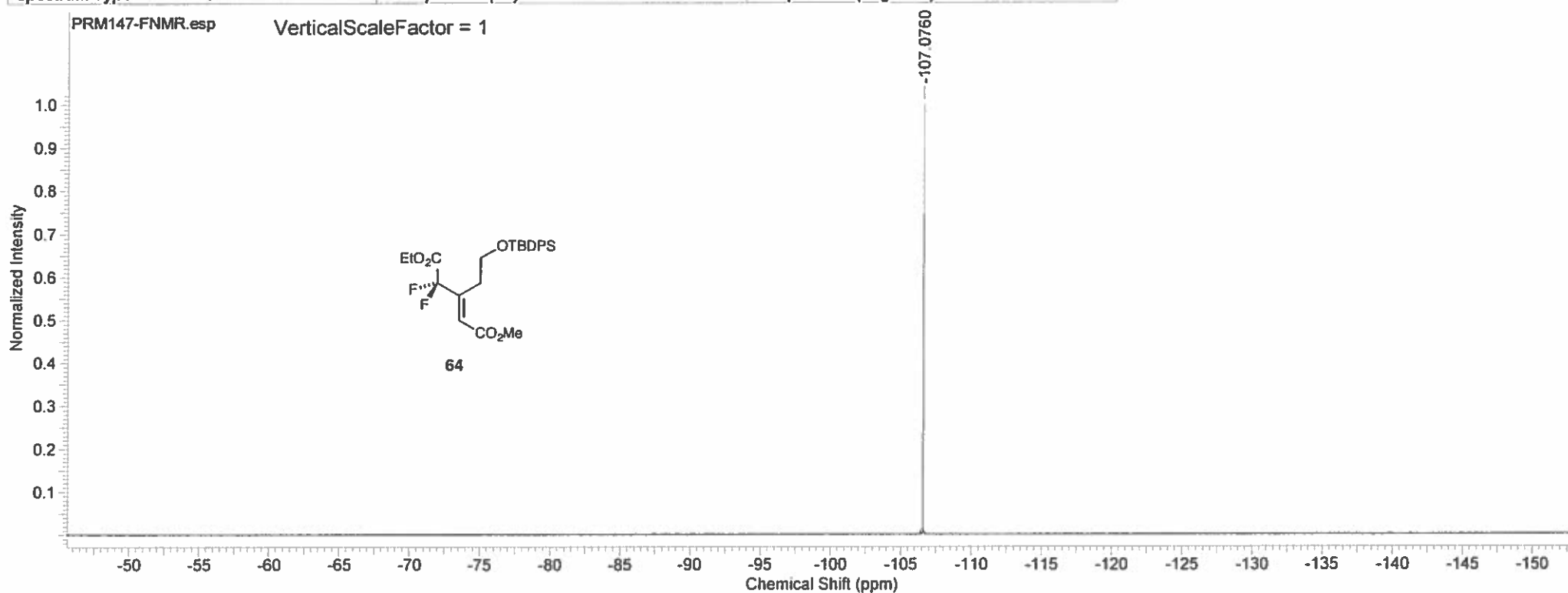
===== CHANNEL f1 =====  
SFO1 100.6077379 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

===== CHANNEL f2 =====  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRG{2} waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

F2 - Processing parameters  
SI 32768  
SF 100.5976815 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



Acquisition Time (sec)	0.7340	Comment	EJT-PRM147 f17-27 31mg mF19 CDCl3 (e:\bruk400\data\2014\Apr) ejt 50		Date	05 Apr 2014 12:01:20	
Date Stamp	05 Apr 2014 12:01:20	File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400DATA\2014\APR\DATA\EJT\NMR\2014-04-05-EJT-50\12\PDATA\1\1R				
Frequency (MHz)	376.50	Nucleus	19F	Number of Transients	16	Origin	AV400
Original Points Count	65536	Owner	Administrator	Points Count	262144	Pulse Sequence	zg
Receiver Gain	4100.00	SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37649.5977
Spectrum Type	STANDARD	Sweep Width (Hz)	89285.37	Temperature (degree C)	21.700		



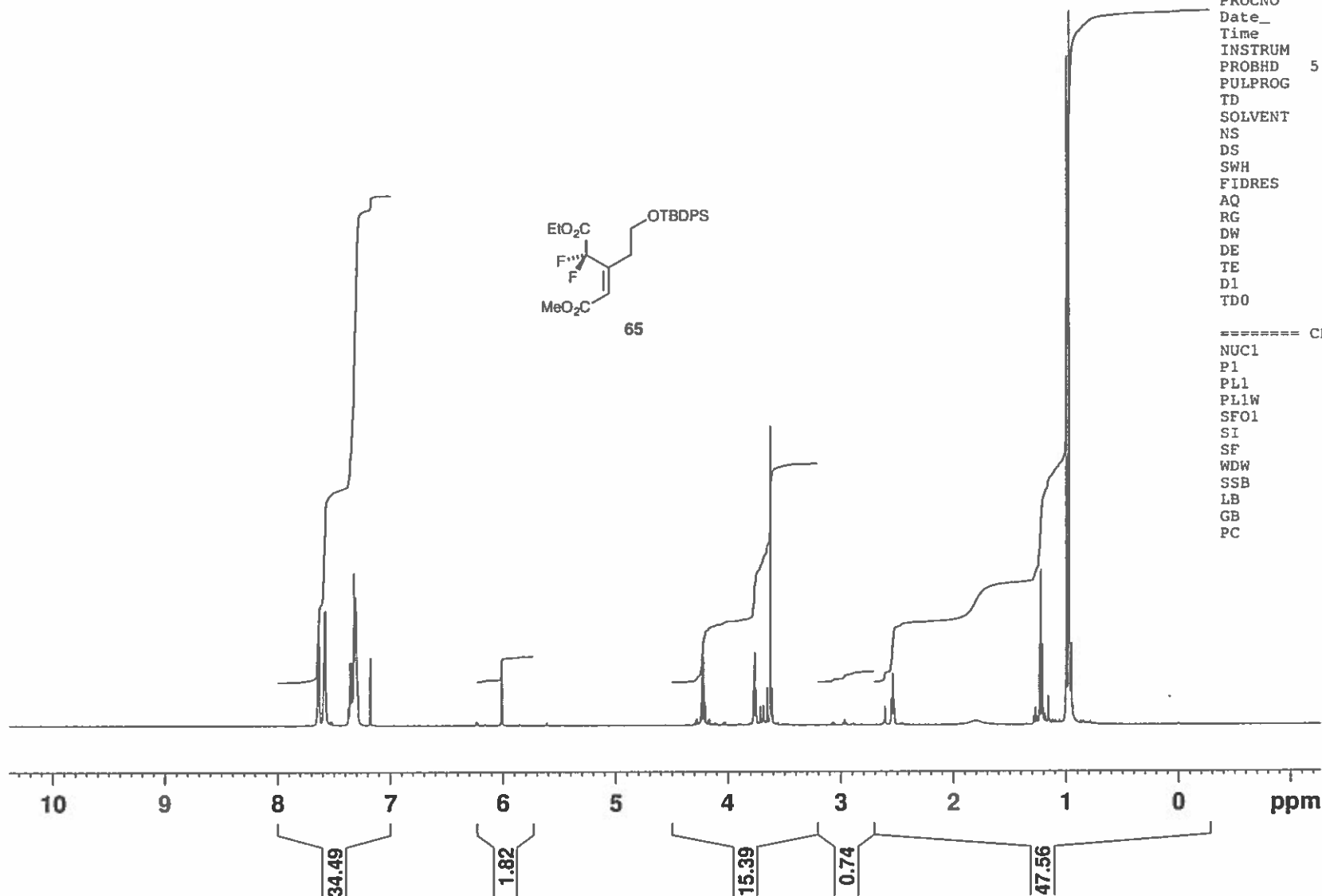
No.	(ppm)	(Hz)	Height
1	-107.08	-40313.9	1.0000

EJT-PRM147 f18-21 26mg  
 mPROTON CDCl3 /opt/oldbruk500data.11vii11/2014/Apr ejt 7



NAME 2014-04-06-ejt-7  
 EXPNO 10  
 PROCNO 1  
 Date\_ 20140406  
 Time 19.54  
 INSTRUM spect  
 PROBHD 5 mm PABBO BB-  
 PULPROG zg30b  
 TD 65536  
 SOLVENT CDCl3  
 NS 16  
 DS 0  
 SWH 10330.578 Hz  
 FIDRES 0.157632 Hz  
 AQ 3.1719923 sec  
 RG 90.5  
 DW 48.400 usec  
 DE 13.00 usec  
 TE 294.5 K  
 D1 1.00000000 sec  
 TD0 1

===== CHANNEL f1 =====  
 NUC1 1H  
 P1 10.00 usec  
 PL1 -0.10 dB  
 PL1W 26.21803665 W  
 SFO1 500.1330885 MHz  
 SI 32768  
 SF 500.1300541 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00

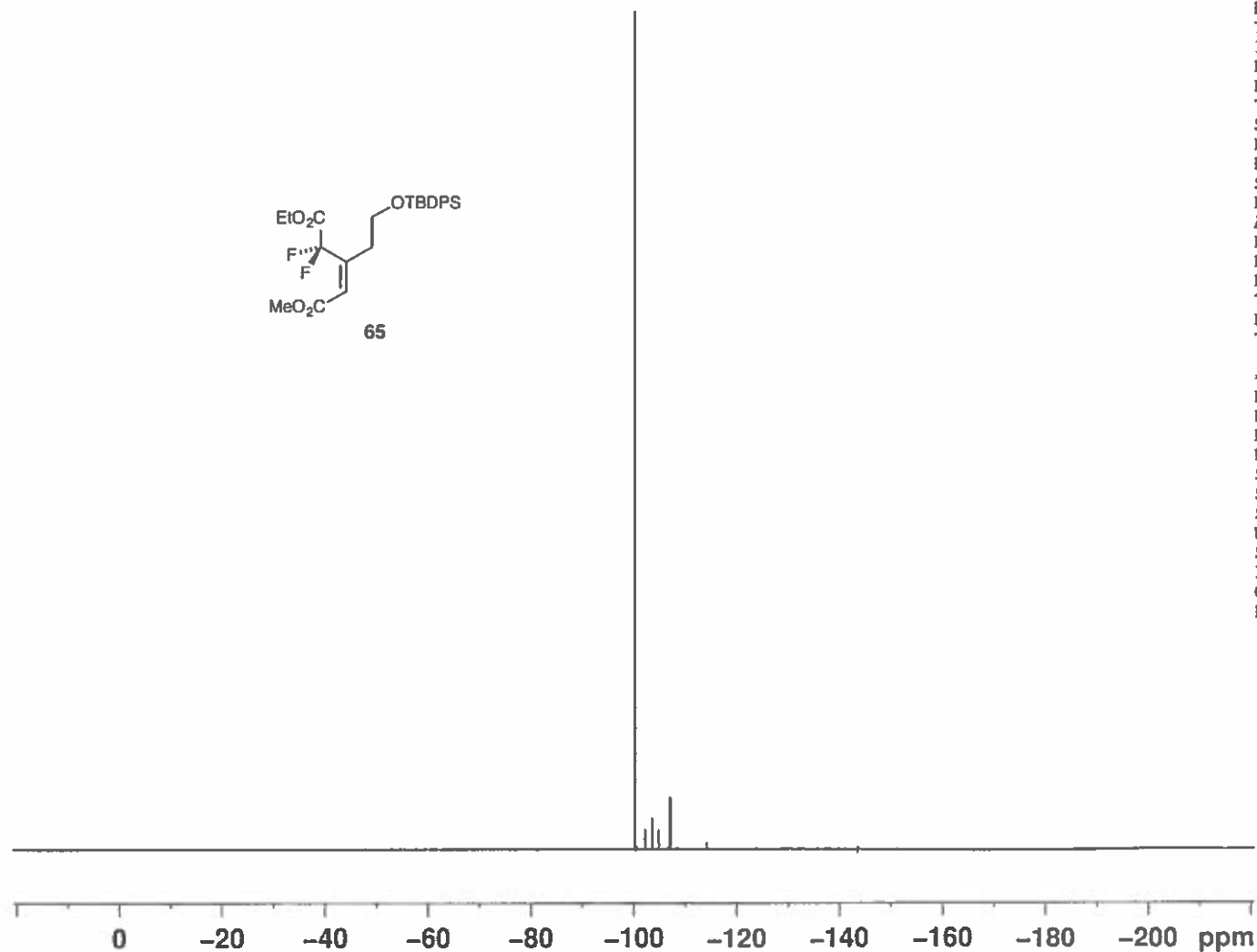
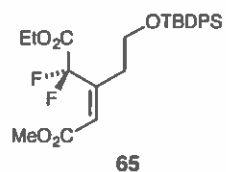


EJT-PRM147 f18-21 26mg  
m19F CDC13 /opt/oldbruk500data.11vii11/2014/Apr ejt 7



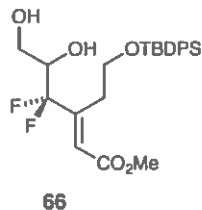
NAME 2014-04-06-ejt-7  
EXPNO 11  
PROCNO 1  
Date\_ 20140406  
Time 19.56  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zgfglqn  
TD 131072  
SOLVENT CDC13  
NS 16  
DS 4  
SWH 113636.367 Hz  
FIDRES 0.866977 Hz  
AQ 0.5767668 sec  
RG 406  
DW 4.400 usec  
DE 6.50 usec  
TE 300.0 K  
D1 1.00000000 sec  
TD0 1

----- CHANNEL f1 -----  
NUC1 19F  
P1 12.38 usec  
PL1 -0.10 dB  
PL1W 25.70395851 W  
SF01 470.5453180 MHz  
SI 65536  
SF 470.5923770 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



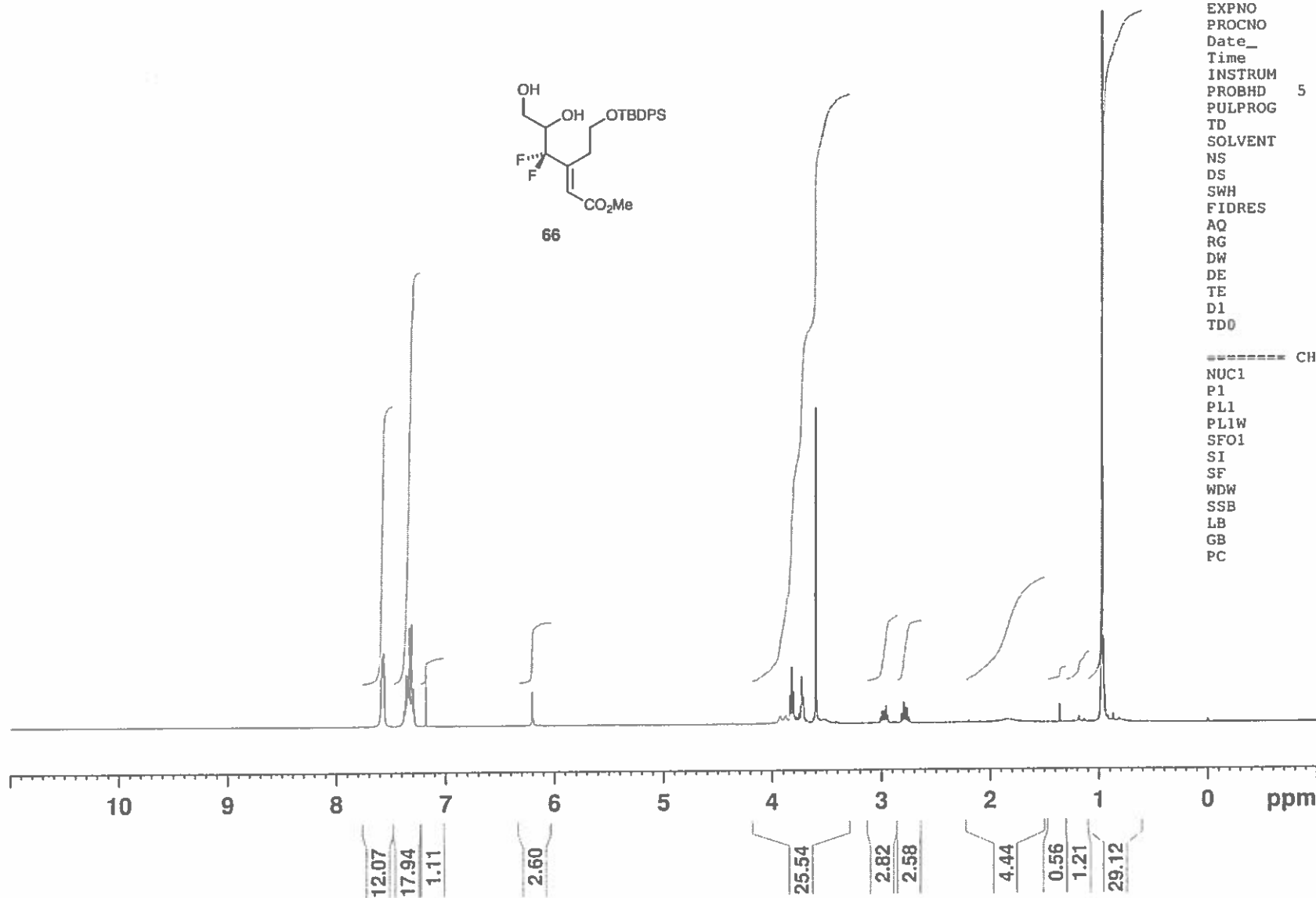


EJT-PRM149F f17-34 38mg  
mPROTON CDCl3 {e:\bruk400data\2014\May} ejt 54



NAME 2014-05-09-ejt-54  
EXPNO 10  
PROCNO 1  
Date\_ 20140509  
Time 13.20  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 128  
DW 60.500 usec  
DE 8.45 usec  
TE 295.0 K  
D1 1.00000000 sec  
TD0 1

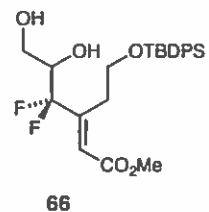
===== CHANNEL f1 =====  
NUC1 1H  
P1 14.50 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300407 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



EJT-PRM149 Prod data

mCARBON\_B CDCl3 (e:\bruker\data\2014\May\ejt-24)

165.149.149.148.135.135.132.130.130.129.128.127.123.122.122.122.120.120.118.118.77.77.77.76.72.71.71.71.63.60.60.51.30.29.29.26.26.25.19.19.18.



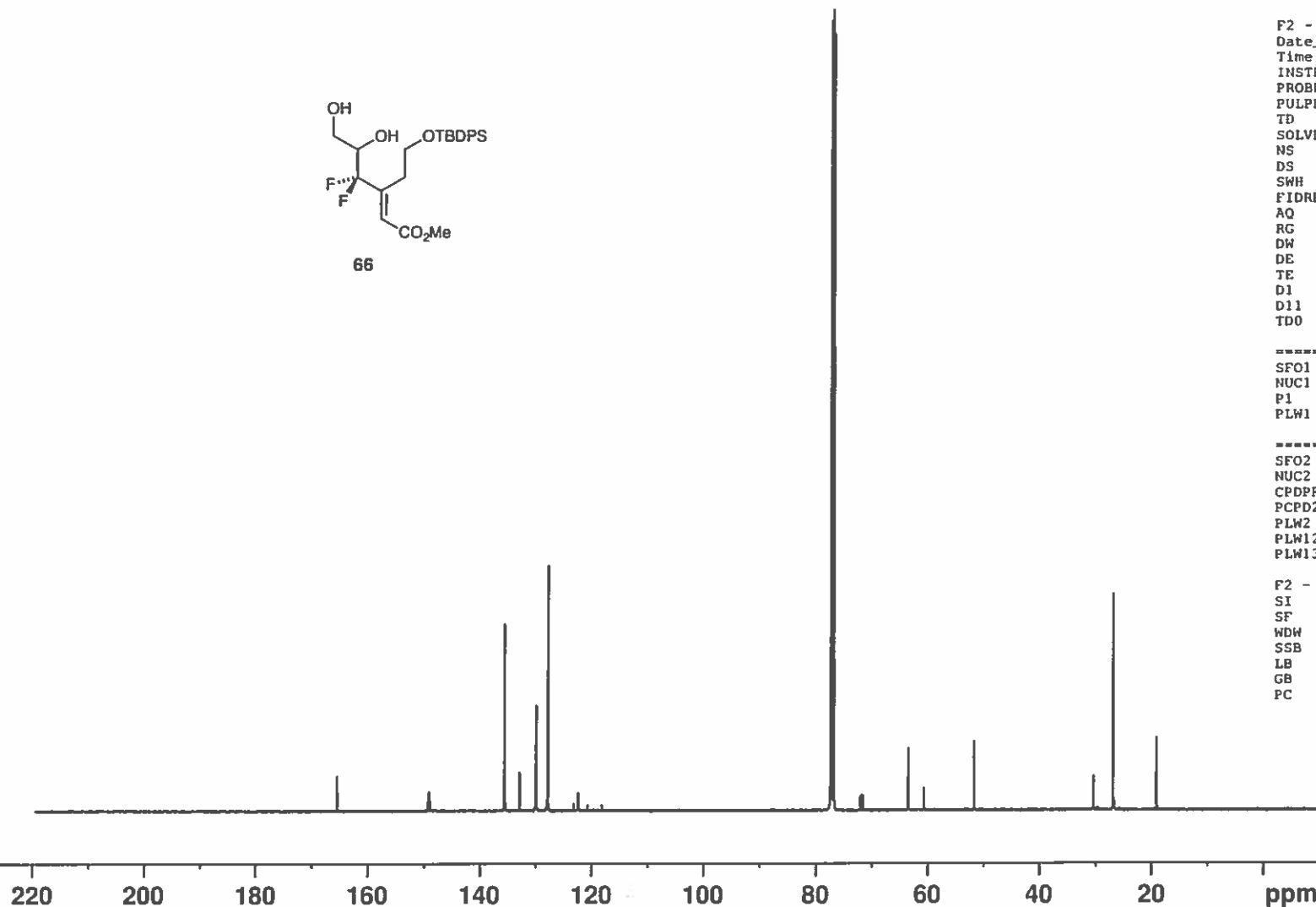
Current Data Parameters  
NAME 2014-05-12-ejt-24  
EXPNO 10  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140513  
Time 22.51  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 1024  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 71.8  
DW 20.800 usec  
DE 41.77 usec  
TE 295.0 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

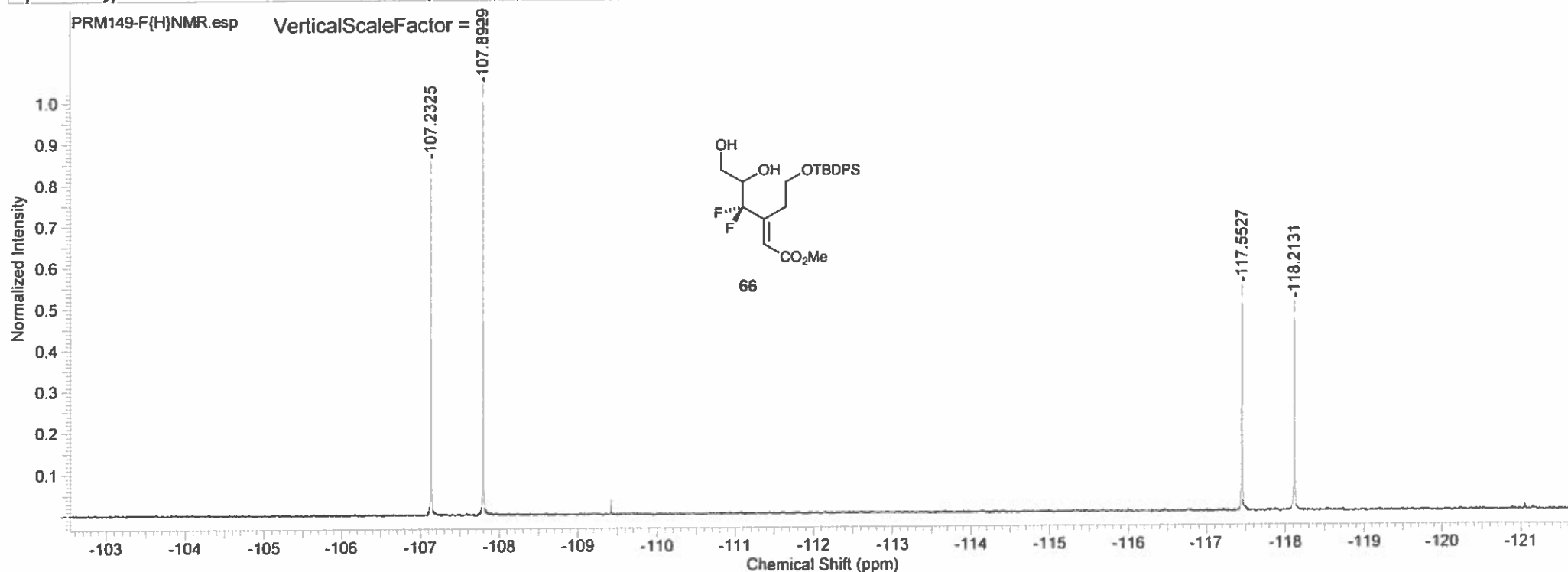
----- CHANNEL f1 -----  
SFO1 100.6077379 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

----- CHANNEL f2 -----  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRG12 waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

F2 - Processing parameters  
SI 32768  
SF 100.5976815 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

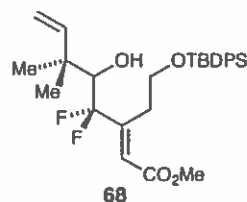


Acquisition Time (sec)	0.7340	Comment	EJT-PRM149F f17-34 38mg mF19CPD CDCl3 (e:\bruk400data\2014May) ejt 54				
Date	09 May 2014 13:22:24	Date Stamp	09 May 2014 13:22:24				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400DATA\2014MAY\DATA\EJT\NMR\2014-05-09-EJT-54\111\PDATA\111R						
Frequency (MHz)	376.50	Nucleus	19F	Number of Transients	16	Origin	AV400
Original Points Count	65536	Owner	Administrator	Points Count	262144	Pulse Sequence	zgig
Receiver Gain	4100.00	SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37649.5977
Spectrum Type	STANDARD	Sweep Width (Hz)	89285.37	Temperature (degree C)	22.200		



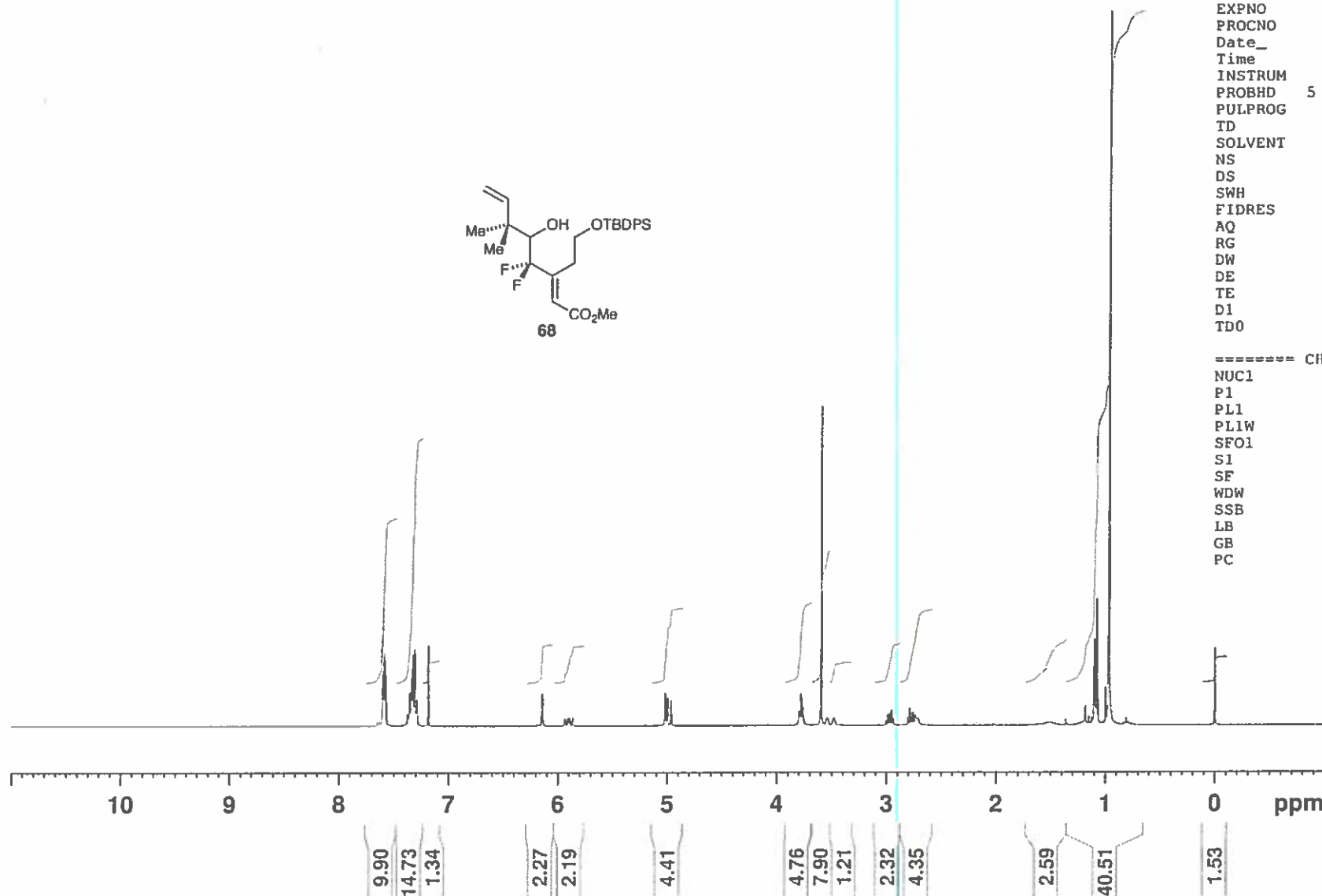
No.	(ppm)	(Hz)	Height
1	-118.21	-44507.0	0.4667
2	-117.55	-44258.4	0.5046
3	-107.89	-40621.5	1.0000
4	-107.23	-40372.8	0.8148

EJT-PRM150 Zn allylation f5-15 20mg  
 mPROTON CDCl3 {e:\bruk400data\2014\May} ejt 11

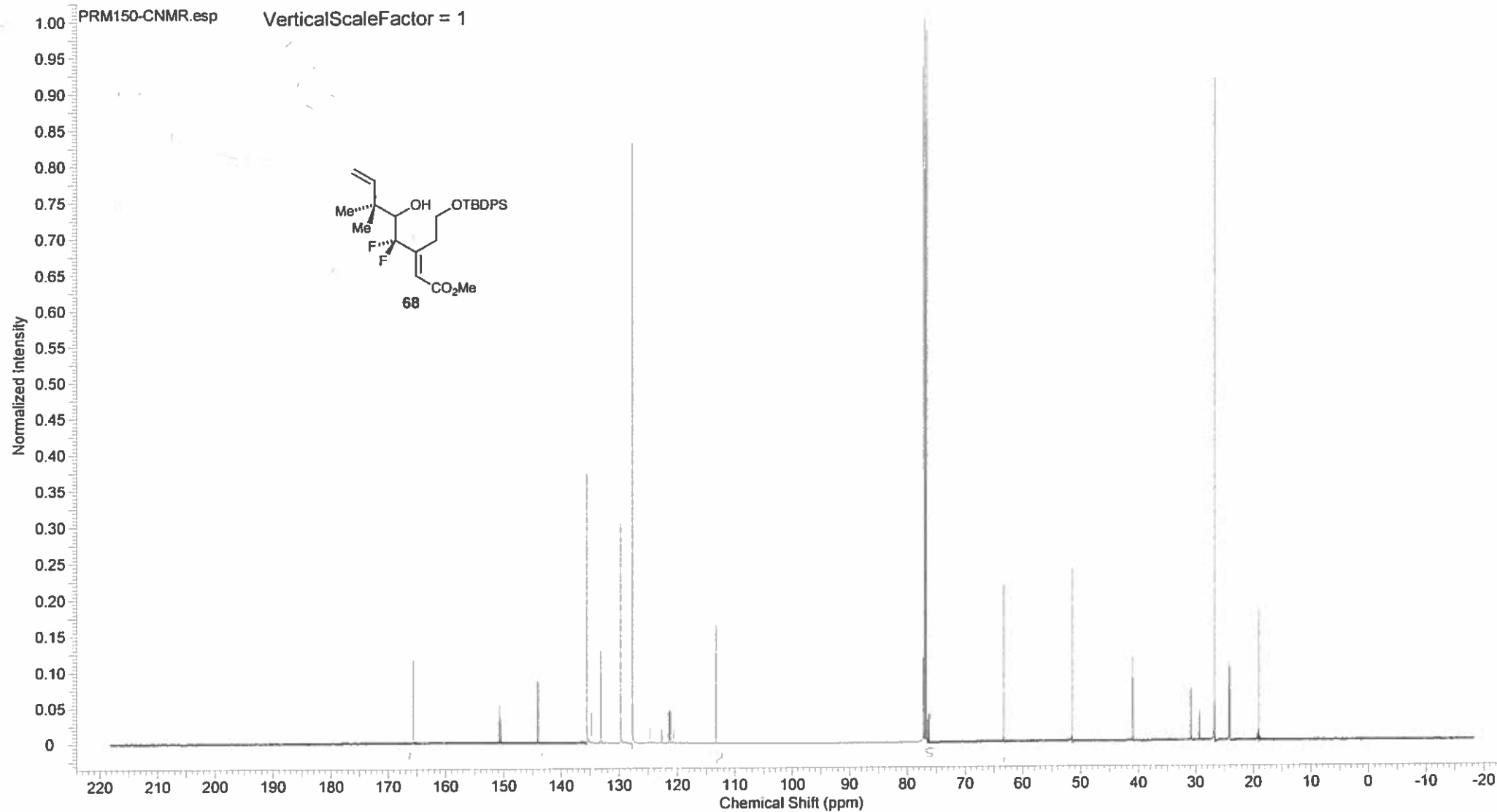


NAME 2014-05-16-ejt-11  
 EXPNO 10  
 PROCNO 1  
 Date\_ 20140516  
 Time 15.29  
 INSTRUM AV400  
 PROBHD 5 mm PABBO BB-  
 PULPROG zg30b  
 TD 65536  
 SOLVENT CDCl3  
 NS 16  
 DS 0  
 SWH 8264.463 Hz  
 FIDRES 0.126106 Hz  
 AQ 3.9649780 sec  
 RG 144  
 DW 60.500 usec  
 DE 8.45 usec  
 TE 295.0 K  
 D1 1.00000000 sec  
 TD0 1

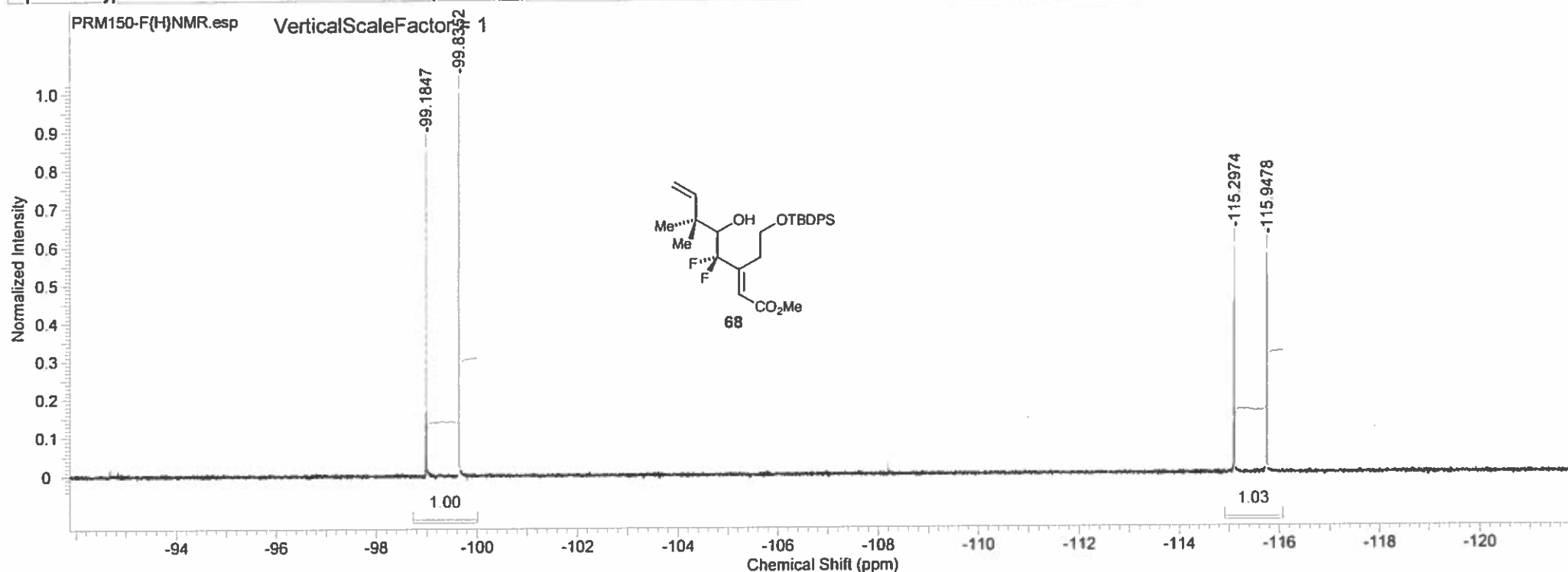
===== CHANNEL f1 =====  
 NUC1 1H  
 P1 14.50 usec  
 PL1 -3.60 dB  
 PL1W 17.83863831 W  
 SFO1 400.1324710 MHz  
 S1 32768  
 SF 400.1300394 MHz  
 WDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00



Acquisition Time (sec)	1.1010	Comment	P. Mears EJ-PRM150 Prod 0514-049 mCARBON CDCl3 {E:\bruk500cdata\2014\May} staff 17		
Date	21 May 2014 15:30:24	Date Stamp	21 May 2014 15:30:24		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2014\May\data\staff\nmr\2014-05-21-staff-17\12Vid			Frequency (MHz)	125.77
Nucleus	13C	Number of Transients	2048	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Receiver Gain	184.40
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.160	Spectrum Offset (Hz)	12568.6943
				Spectrum Type	STANDARD

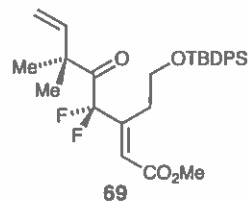


<b>Acquisition Time (sec)</b>	0.7340	<b>Comment</b>	EJT-PRM150 Zn allylation f5-15 20mg mF19CPD CDCI3 (e:\bruk400data\2014\May) ejt 11		
<b>Date</b>	16 May 2014 15:30:24	<b>Date Stamp</b>	16 May 2014 15:30:24		
<b>File Name</b>	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400DATA\2014\MAY\DATA\EJT\NMR\2014-05-16-EJT-11\1\1\PDAT\1\1R				
<b>Frequency (MHz)</b>	376.50	<b>Nucleus</b>	19F	<b>Number of Transients</b>	16
<b>Original Points Count</b>	65536	<b>Owner</b>	Administrator	<b>Points Count</b>	262144
<b>Receiver Gain</b>	4100.00	<b>SW(cyclical) (Hz)</b>	89285.71	<b>Solvent</b>	CHLOROFORM-d
<b>Spectrum Type</b>	STANDARD	<b>Sweep Width (Hz)</b>	89285.37	<b>Temperature (degree C)</b>	22.200
				<b>Origin</b>	AV400
				<b>Pulse Sequence</b>	zgig
				<b>Spectrum Offset (Hz)</b>	-37649.5977



No.	(ppm)	Value	Absolute Value	Non-Negative Value
1	2702 ...	-1151.03150678	1.04263719e+6	1.03150678
2	2075 ..	-98.0.99985164	1.01064050e+6	0.99985164

EJT-PRM151 f4-12 11mg  
mPROTON CDCl3 {E:\bruk500adata\2014\May} ejt 7

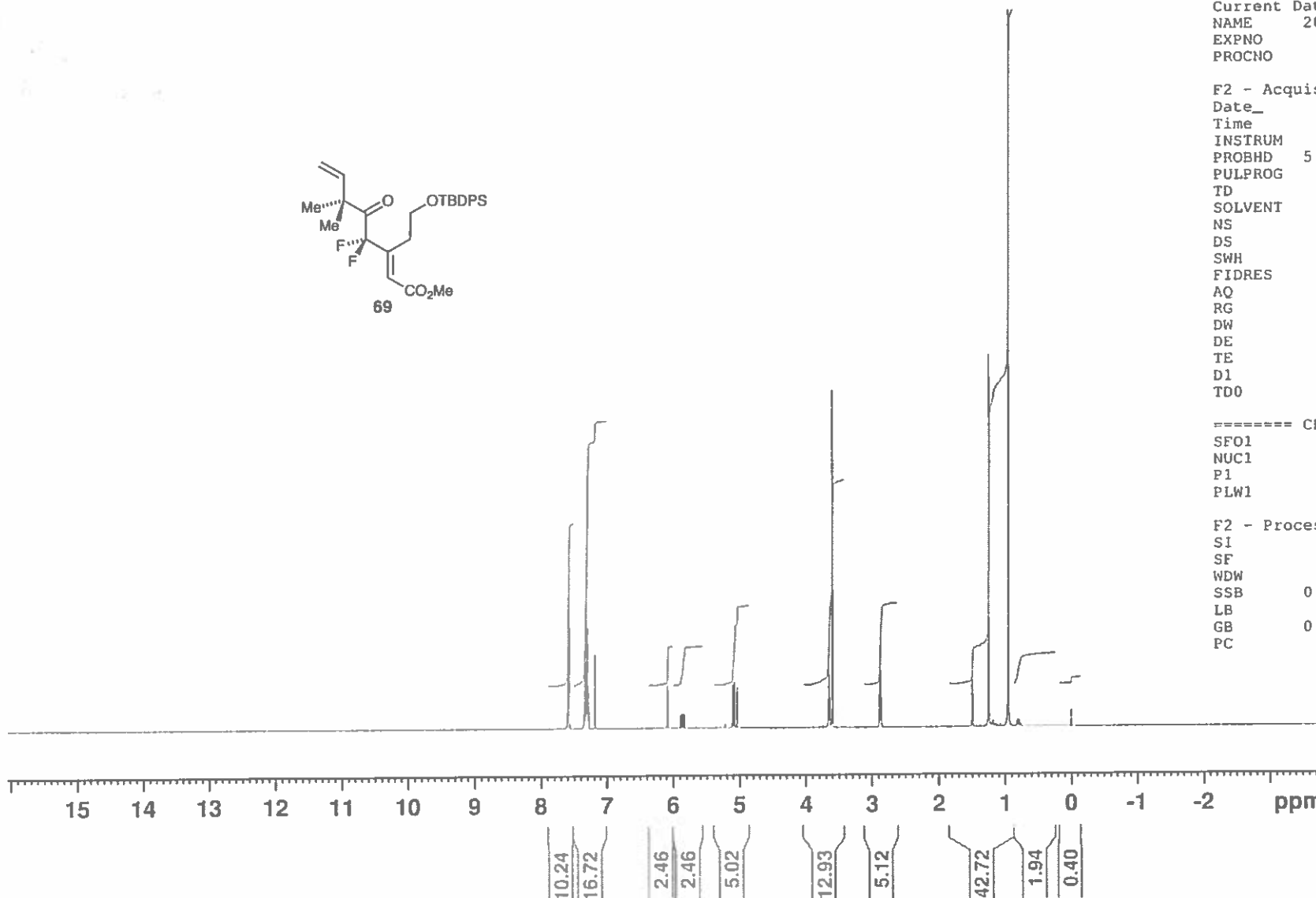


Current Data Parameters  
NAME 2014-05-17-ejt-7  
EXPNO 20  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20140517  
Time 15.18  
INSTRUM spect  
PROBHD 5 mm PABBO BB-  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 0  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719425 sec  
RG 144  
DW 48.400 usec  
DE 13.00 usec  
TE 293.0 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
SF01 500.1330885 MHz  
NUC1 1H  
P1 10.00 usec  
PLW1 26.21800041 W

F2 - Processing parameters  
SI 32768  
SF 500.1300481 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



P. Mears  
 EJT151 prod data  
 0614-017  
 2048 scans  
 mCARBON CDC13 {E:\bruk500cdata\2014\Jun} staff 16



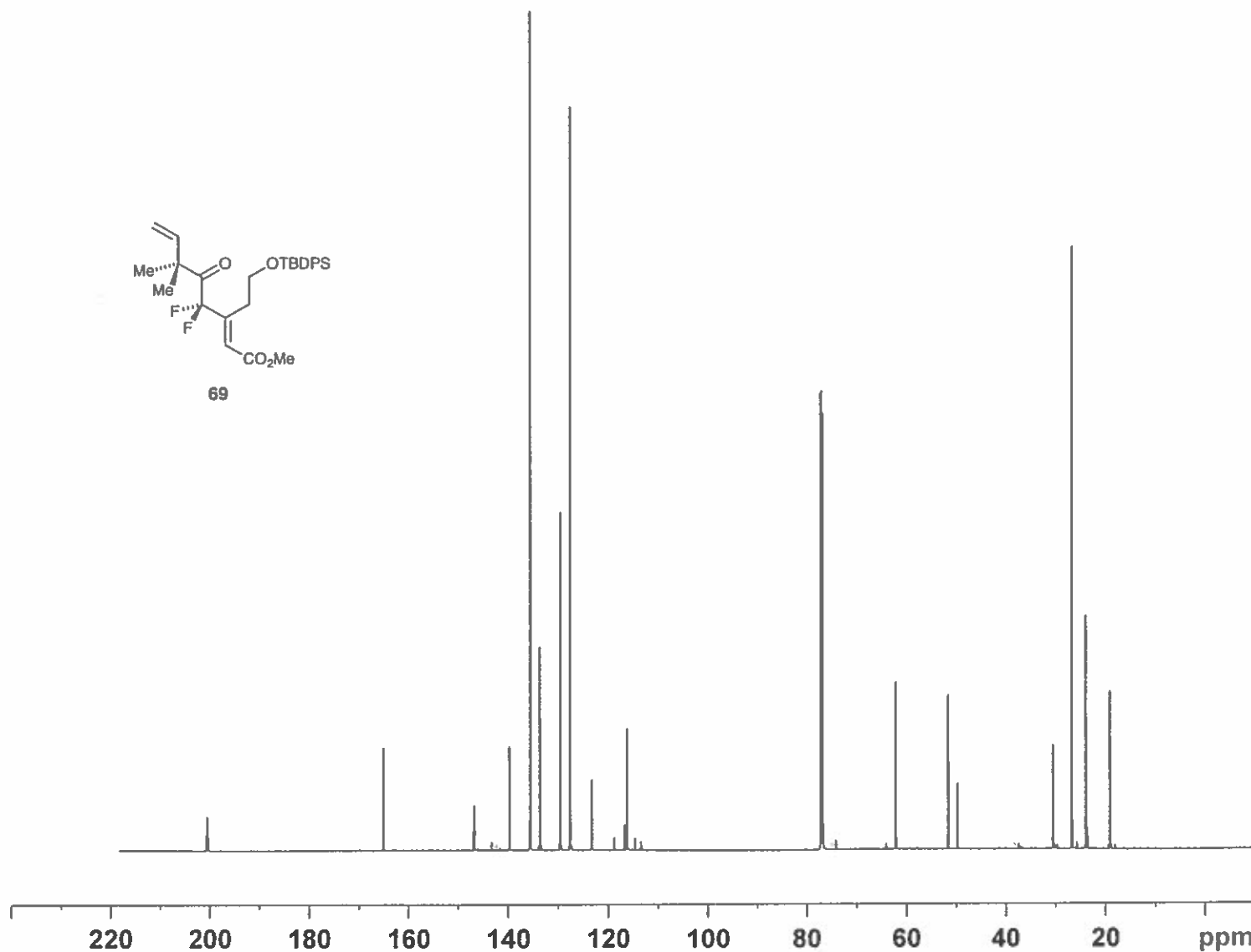
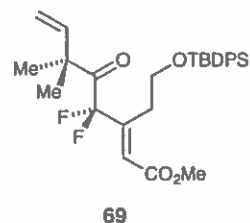
Current Data Parameters  
 NAME 2014-06-11-staff-16  
 EXPNO 10  
 PROCNO 1

F2 - Acquisition Parameters  
 Date\_ 20140611  
 Time\_ 15.58  
 INSTRUM spect  
 PROBHD 5 mm CPPBBO BB  
 PULPROG zgpg30  
 TD 65536  
 SOLVENT CDC13  
 NS 2048  
 DS 4  
 SWH 29761.904 Hz  
 FIDRES 0.454131 Hz  
 AQ 1.1010048 sec  
 RG 184.4  
 DW 16.800 usec  
 DE 102.82 usec  
 TE 298.2 K  
 D1 2.00000000 sec  
 D11 0.03000000 sec  
 TD0 1

===== CHANNEL f1 =====  
 SFO1 125.7854504 MHz  
 NUC1 13C  
 P1 10.00 usec  
 PLW1 53.59999847 W

===== CHANNEL f2 =====  
 SFO2 500.1920008 MHz  
 NUC2 1H  
 CPDPRG[2] waltz16  
 PCPD2 80.00 usec  
 PLW2 16.00000000 W  
 PLW12 0.28622001 W  
 PLW13 0.18318000 W

F2 - Processing parameters  
 SI 32768  
 SF 125.7728760 MHz  
 WDW EM  
 SSB 0  
 LB 1.00 Hz  
 GB 0  
 PC 1.40





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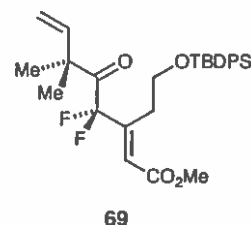
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmr/proc/](http://www.acdlabs.com/nmr/proc/)

Acquisition Time (sec)	0.5767	Comment	EJT-PRM151 f4-12 11mg m19F CDCl3 (E:\bruk500adata\2014May) ejl 7				
Date	17 May 2014 15:21:52	Date Stamp	17 May 2014 15:21:52				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500adata\2014May\data\ejl\nmr\2014-05-17-ejt-7\22\fid						
Nucleus	19F	Number of Transients	16	Origin	spect	Frequency (MHz)	470.59
Owner	nmsu	Points Count	65536	Pulse Sequence	zgfgn	Original Points Count	65536
SW(cyclical) (Hz)	113636.37	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-47059.0234	Receiver Gain	362.00
Sweep Width (Hz)	113634.63	Temperature (degree C)	20.000	Spectrum Type	STANDARD		

PRM151-FNMR.esp

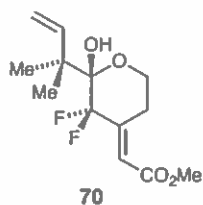
VerticalScaleFactor =

-102.0393



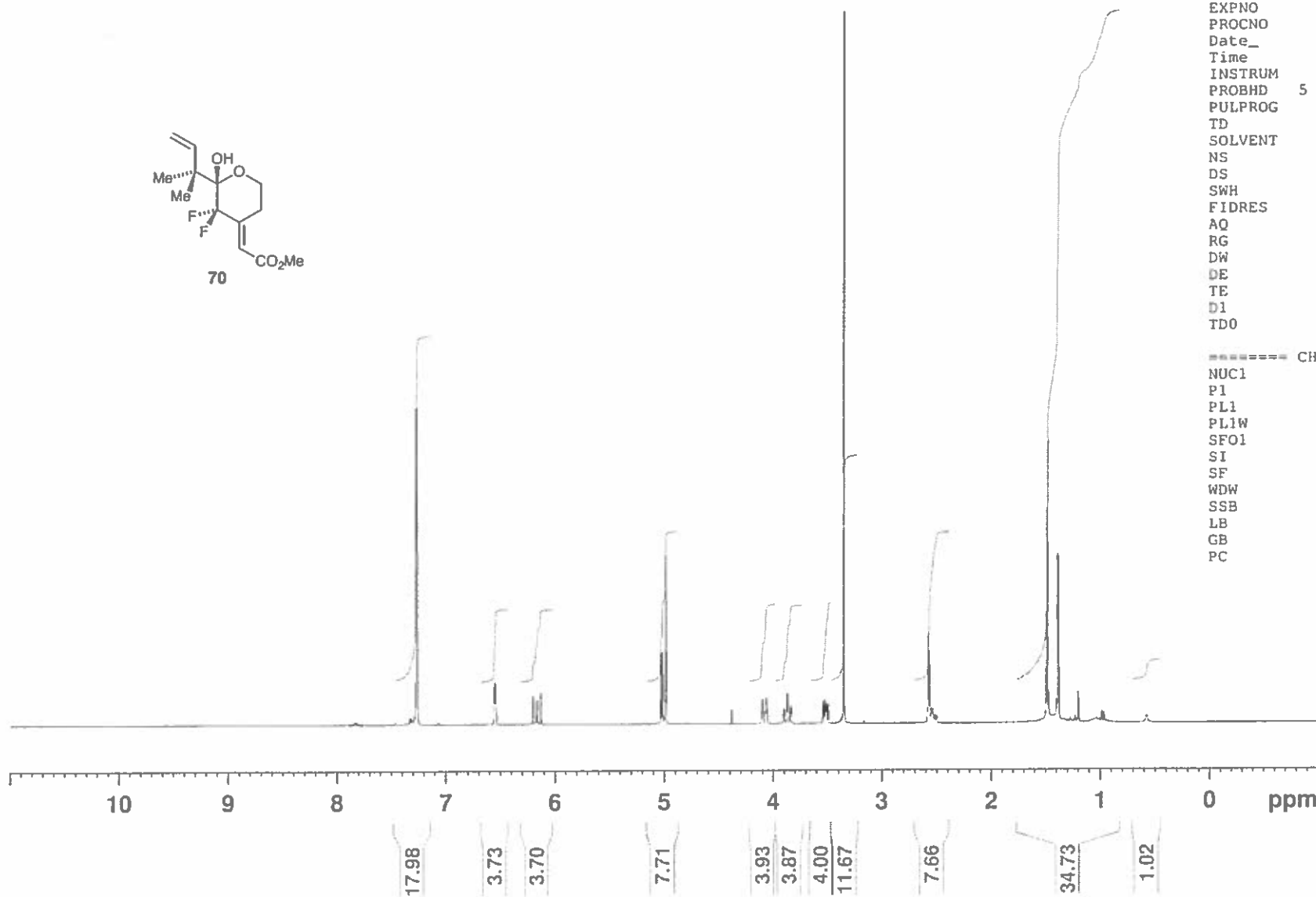
-86 -88 -90 -92 -94 -96 -98 -100 -102 -104 -106 -108 -110 -112 -114 -116 -118 -120 -122 -124 -126 -128 -130 -132 -134 -136 -138  
Chemical Shift (ppm)

EJT-PRM152 HF.py f3-11 15mg  
mPROTON C6D6 {e:\bruk400data\2014\May} ejt 2



NAME 2014-05-23-ejt-2  
EXPNO 10  
PROCNO 1  
Date\_ 20140523  
Time 12.12  
INSTRUM AV400  
PROBHD 5 mm PABBO BB-  
PULPROG zg30b  
TD 65536  
SOLVENT C6D6  
NS 16  
DS 0  
SWH 8264.463 Hz  
FIDRES 0.126106 Hz  
AQ 3.9649780 sec  
RG 144  
DW 60.500 usec  
DE 8.45 usec  
TE 295.1 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
NUC1 1H  
P1 14.50 usec  
PL1 -3.60 dB  
PL1W 17.83863831 W  
SFO1 400.1324710 MHz  
SI 32768  
SF 400.1300000 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

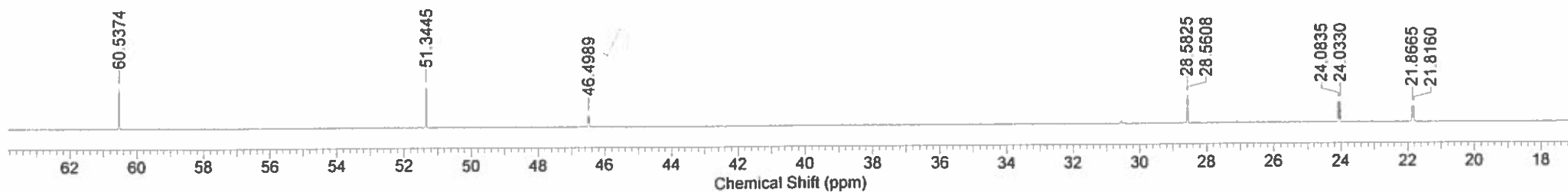
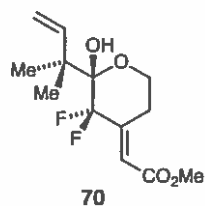


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Acquisition Time (sec)	1.1010	Comment	P. Mears EJTB-PRM152 HF.py 83-11 0514-053 mCARBON C6D6 (E:\bruk500cdata\2014May) staff 28		
Date	23 May 2014 20:35:28	Date Stamp	23 May 2014 20:35:28		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2014May\data\staff\nmr\2014-05-23-staff-28\12\fid			Frequency (MHz)	125.77
Nucleus	13C	Number of Transients	5120	Origin	spect
Owner	nmsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Receiver Gain	184.40
Sweep Width (Hz)	29761.00	Temperature (degree C)	25.149	Spectrum Offset (Hz)	12662.5273
				Spectrum Type	STANDARD

PRM152-C13NMR.esp

VerticalScaleFactor = 1

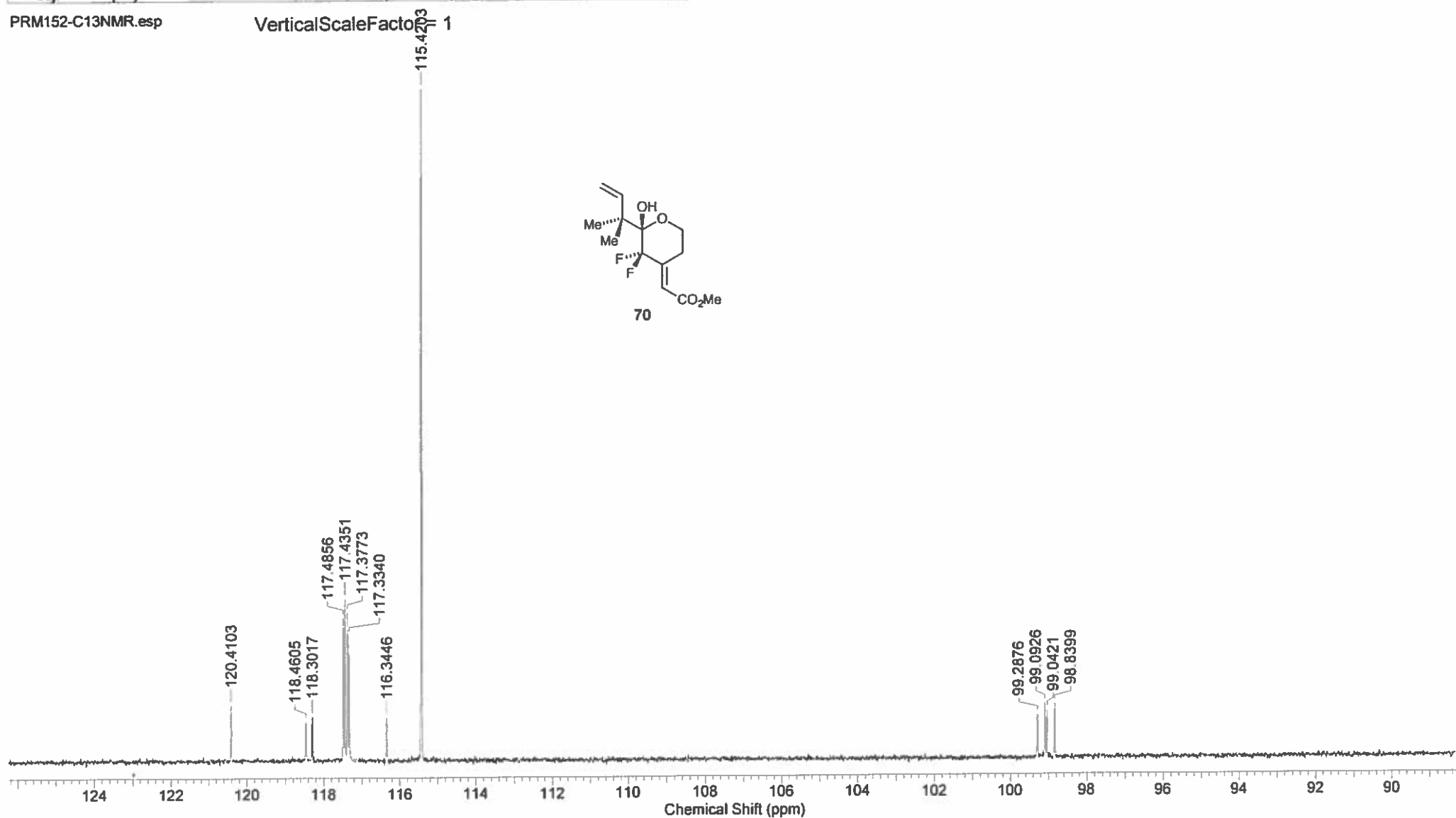


This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010	Comment	P. Mears EJ1-PRM152 HF.py 83-11 0514-053 mCARBON C6D6 (E:\bruk500cdata\2014\May) staff 28		
Date	23 May 2014 20:35:28	Date Stamp	23 May 2014 20:35:28		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2014\May\data\staff\nmr\2014-05-23-staff-28\12\fid			Frequency (MHz)	125.77
Nucleus	13C	Number of Transients	5120	Origin	spect
Owner	nmsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Receiver Gain	184.40
Sweep Width (Hz)	29761.00	Temperature (degree C)	25.149	Spectrum Offset (Hz)	12662.5273
				Spectrum Type	STANDARD

PRM152-C13NMR.esp

VerticalScaleFactor = 1

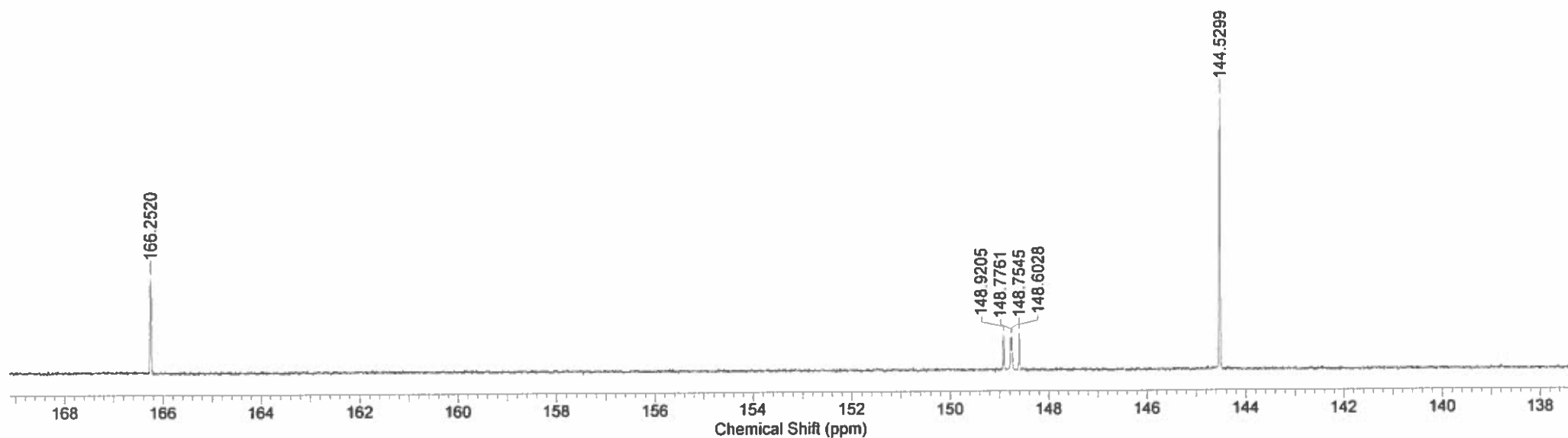
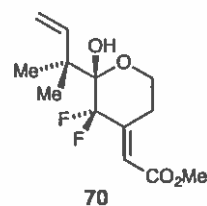


This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010	Comment	P. Mears EJ1-PRM152 HF.py 83-11 0514-053 mCARBON C6D6 (E:\bruk500cdata\2014\May) staff 28		
Date	23 May 2014 20:35:28	Date Stamp	23 May 2014 20:35:28		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2014\May\data\staff\nmr\2014-05-23-staff-28\12\fid			Frequency (MHz)	125.77
Nucleus	13C	Number of Transients	5120	Origin	spect
Owner	nmsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Spectrum Offset (Hz)	12662.5273
Sweep Width (Hz)	29761.00	Temperature (degree C)	25.149	Spectrum Type	STANDARD

PRM152-C13NMR.esp

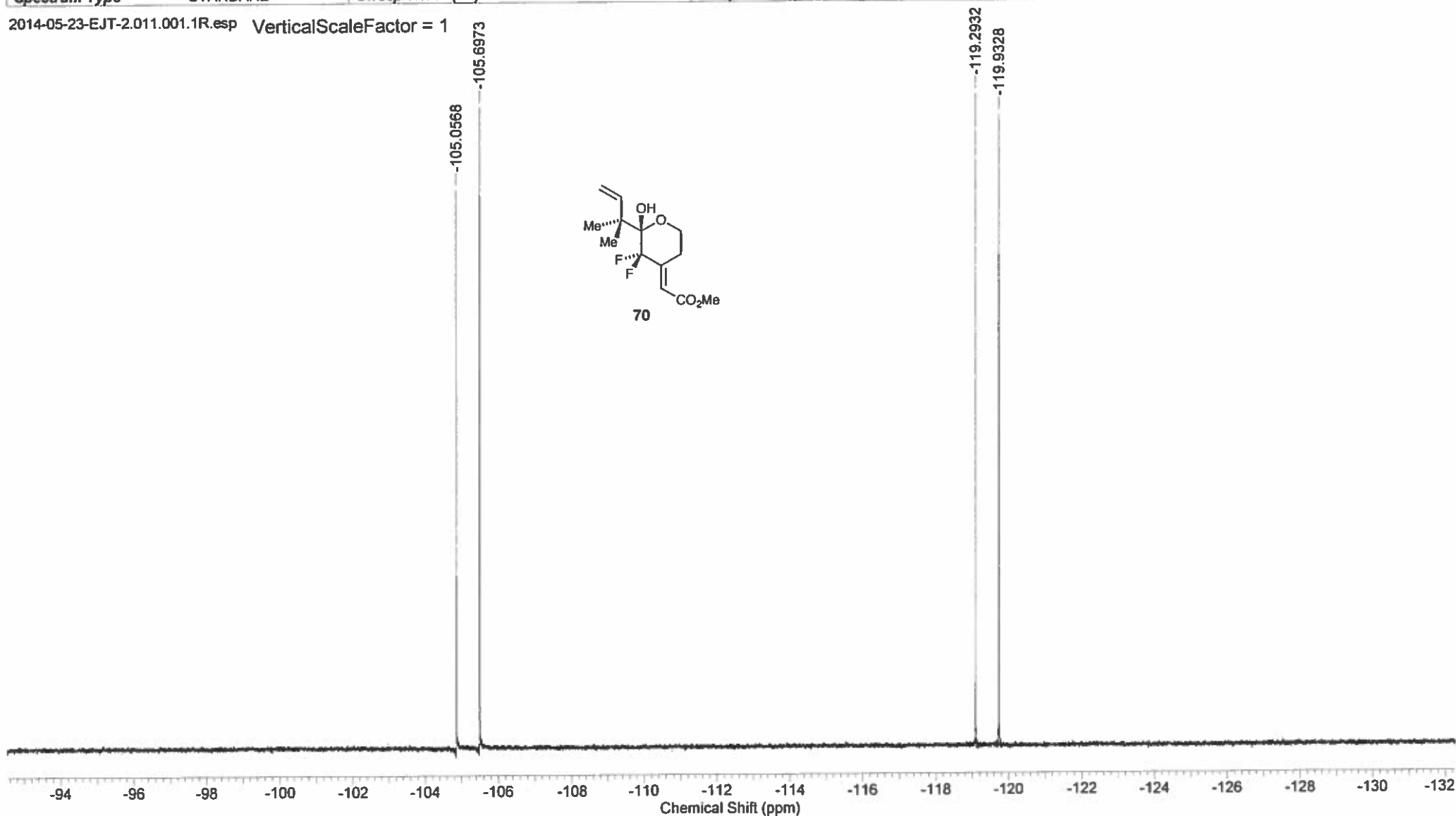
VerticalScaleFactor = 1



This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	0.7340	Comment	EJT-PRM152 HF.py f3-11 15mg mF19CPD C6D6 (e:\bruk400data\2014\May) ejt 2				
Date	23 May 2014 12:14:08	Date Stamp	23 May 2014 12:14:08				
File Name	\\ss7a.ds.man.ac.uk\vol5\VOL3\USERS\SNMRDATA\BRUK400DATA\2014\MAY\DATA\EJT\NMR\2014-05-23-EJT-2\11\1\PDATA\111R						
Frequency (MHz)	376.50	Nucleus	19F	Number of Transients	16	Origin	AV400
Original Points Count	65536	Owner	Administrator	Points Count	262144	Pulse Sequence	zgig
Receiver Gain	4100.00	SW(cyclical) (Hz)	89285.71	Solvent	BENZENE-d6	Spectrum Offset (Hz)	-37649.5977
Spectrum Type	STANDARD	Sweep Width (Hz)	89285.37	Temperature (degree C)	22.300		

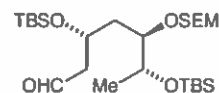
2014-05-23-EJT-2.011.001.1R.esp VerticalScaleFactor = 1



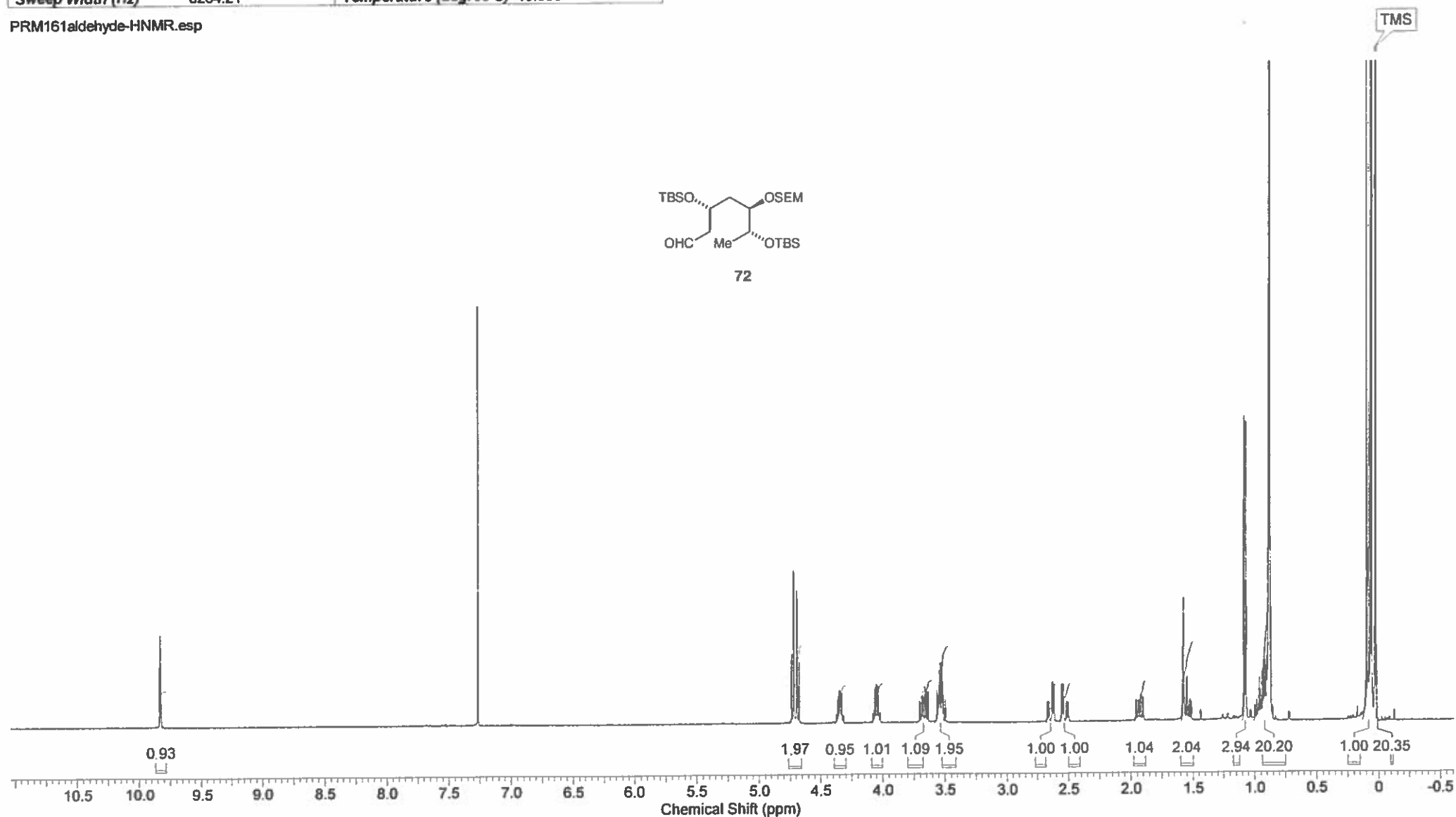
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	3.9649	Comment	EJT-PRM161 f15-35 289mg mPROTON CDCl3 (e:\bruk400adata\2015\Feb) ejt 22		
Date	25 Feb 2015 16:36:16	Date Stamp	25 Feb 2015 16:36:16		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015\Feb\data\ejt\nmr\2015-02-25-ejt-22\10\vid	Frequency (MHz)	400.13	Original Points Count	32768
Nucleus	1H	Number of Transients	16	Origin	AV400
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30b
SW(cyclical) (Hz)	8264.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	2464.6748
Sweep Width (Hz)	8264.21	Temperature (degree C)	19.900	Spectrum Type	STANDARD

PRM161aldehyde-HNMR.esp



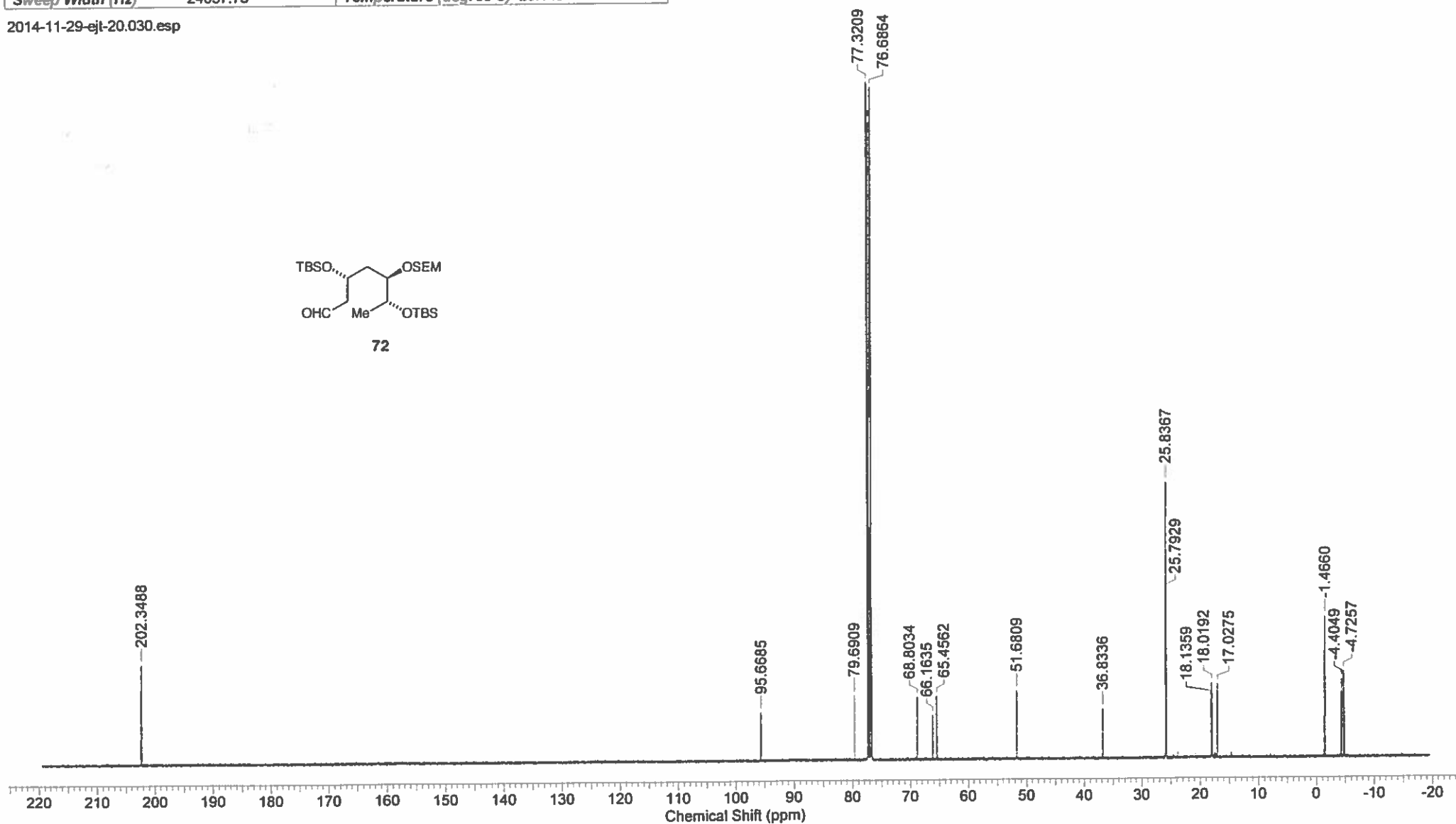
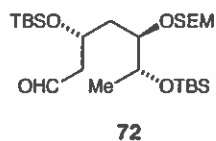
72



This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

This report was created by ACD/NMR Processor Academic Edition. For more information go to <a href="http://www.acdlabs.com/nmr/proc/">www.acdlabs.com/nmr/proc/</a>							
Acquisition Time (sec)	1.3631	Comment EJT-PRM161 aldehyde mCARBON B CDCl3 (e:\bruk400cdata\2014\Nov) ejt 20					
Date	29 Nov 2014 17:23:12	Date Stamp		29 Nov 2014 17:23:12			
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2014\Nov\data\ejt\nmr\2014-11-29-ejt-20\30vid			Frequency (MHz)	100.60		
Nucleus	13C	Number of Transients	1024	Origin	spect	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	45.20
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10053.5352	Spectrum Type	STANDARD
Sweep Width (Hz)	24037.73	Temperature (degree C)	23.149				

2014-11-29-ejt-20.030.esp

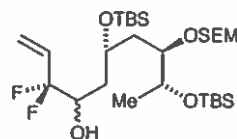




This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

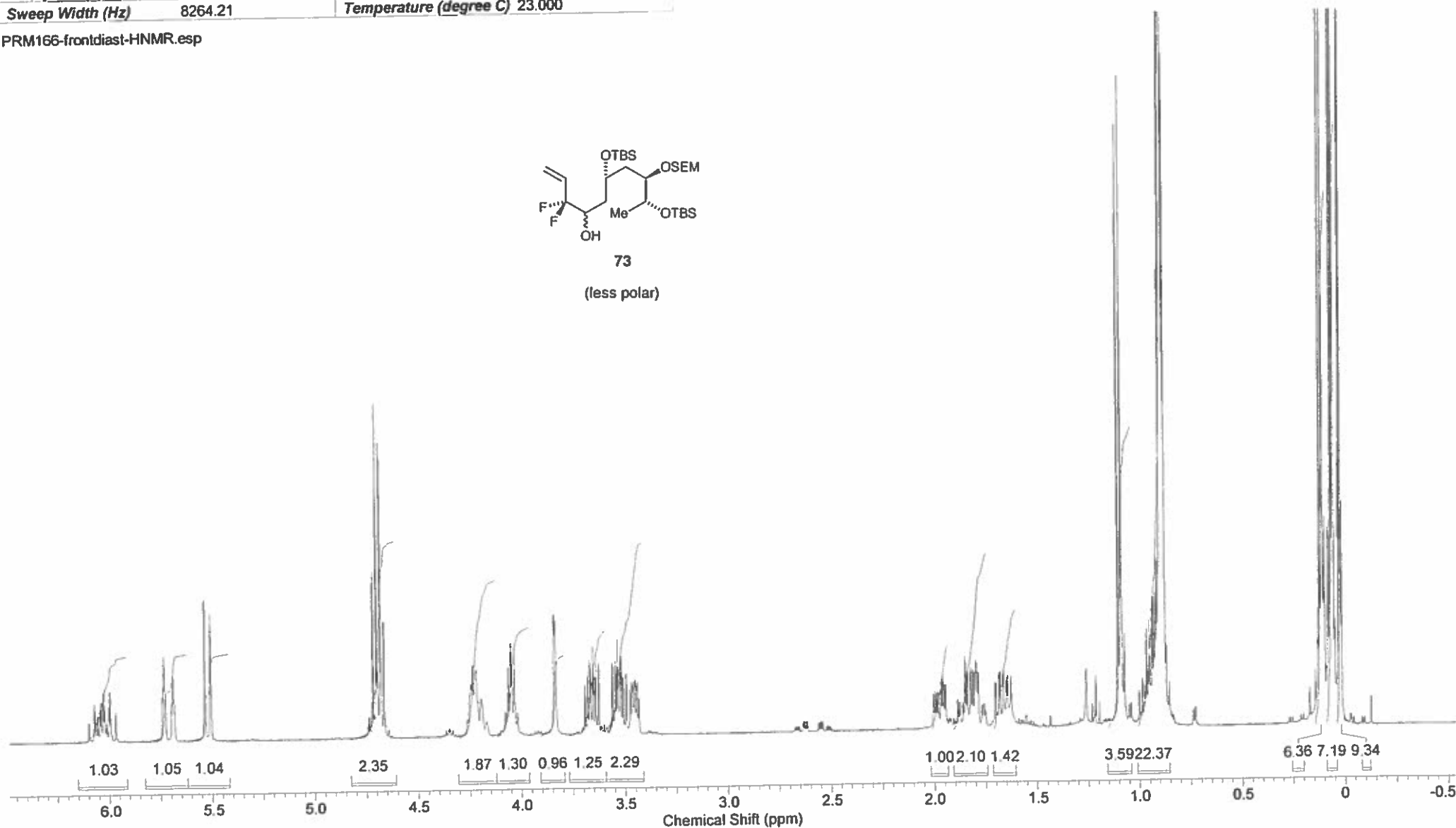
Acquisition Time (sec)	3.9649	Comment	EJT-PRM166 f12+13 34mg clean front diastereomer? mPROTON CDCl3 (e:\bruk400adata\2015Jan)\ejt 2		
Date	08 Jan 2015 13:17:52	Date Stamp	08 Jan 2015 13:17:52		
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015Jan\data\ejt\nmr\2015-01-08-ejt-2\13vid			Frequency (MHz)	400.13
Nucleus	1H	Number of Transients	16	Origin	AV400
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30b
SW(cyclical) (Hz)	8264.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	2464.9270
Sweep Width (Hz)	8264.21	Temperature (degree C)	23.000	Receiver Gain	101.00
				Spectrum Type	STANDARD

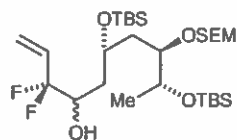
PRM166-frontdiast-HNMR.esp



73

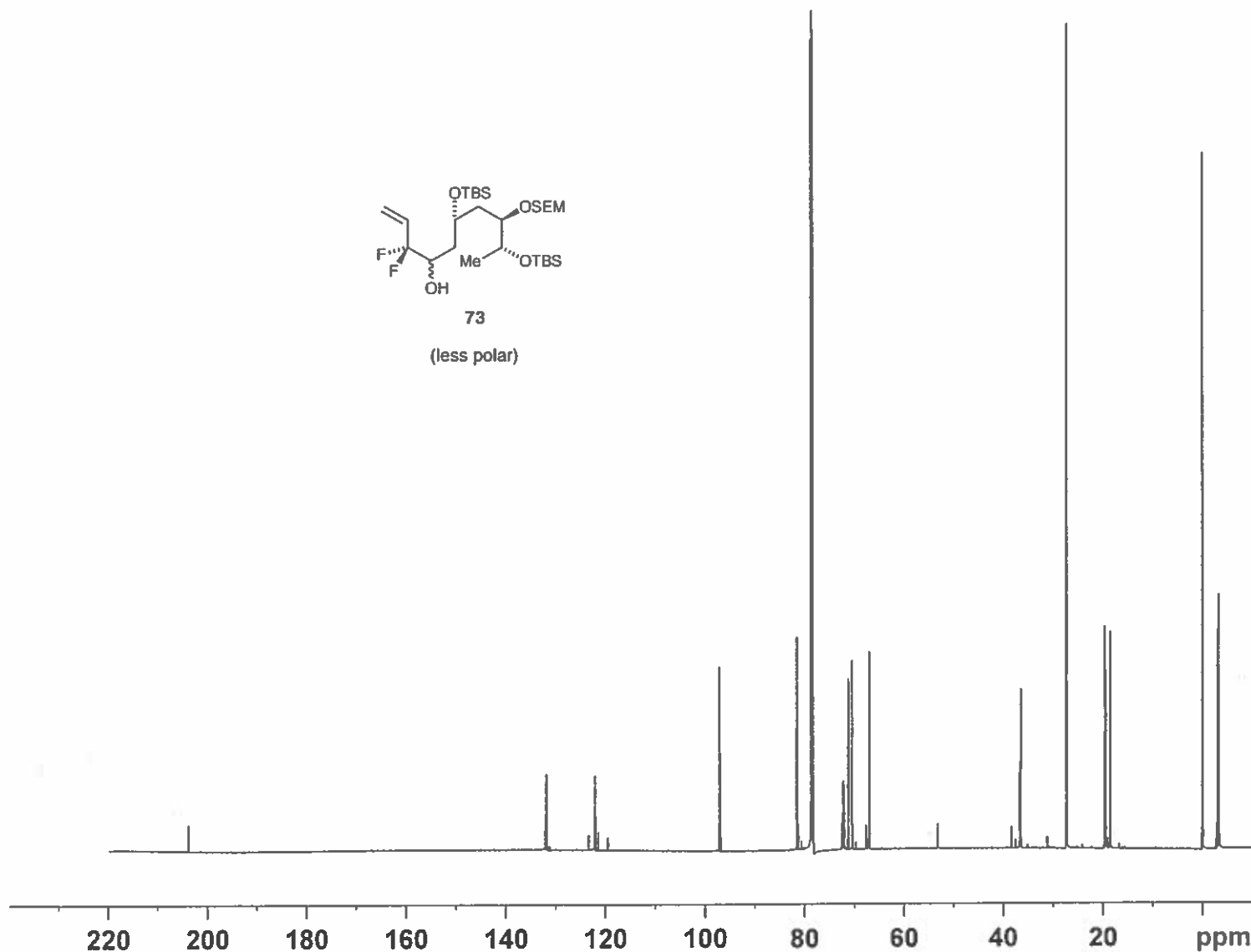
(less polar)





73

(less polar)



```
Current Data Parameters
NAME      2015-01-09-staff-7
EXPNO      11
PROCNO     1
```

```

F2 - Acquisition Parameters
Date_                20150109
Time_                18.18
INSTRUM              spect
PROBHD               5 mm CPPBBO BB
PULPROG              zgpg30
TD                   65536
SOLVENT              CDC13
NS                    5000
DS                     4
SWH                  29761.904 Hz
FIDRES               0.454131 Hz
AQ                   1.1010048 sec
RG                    184.4
DW                   16.800 usec
DE                   102.82 usec
TE                   298.0 K
D1                   2.00000000 sec
D11                  0.03000000 sec
TD0                   1

```

```
===== CHANNEL f1 =====
SFO1      125.7854504 MHz
NUC1              13C
P1              10.00 usec
PLW1      53.59999847 W
```

```
===== CHANNEL f2 =====
SFO2      500.1920008 MHz
NUC2      1H
PCDPRG[2] waltz16
PCPD2      80.00 usec
PLW2      16.00000000 W
PLW12     0.28622001 W
PLW13     0.18318000 W
```

```

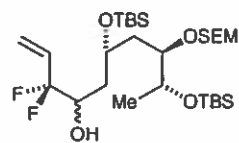
F2 - Processing parameters
SI                      32768
SF                      125.7726921 MHz
WDW                      EM
SSB                      0
LB                      1.00 Hz
GB                      0
PC                      1.40

```

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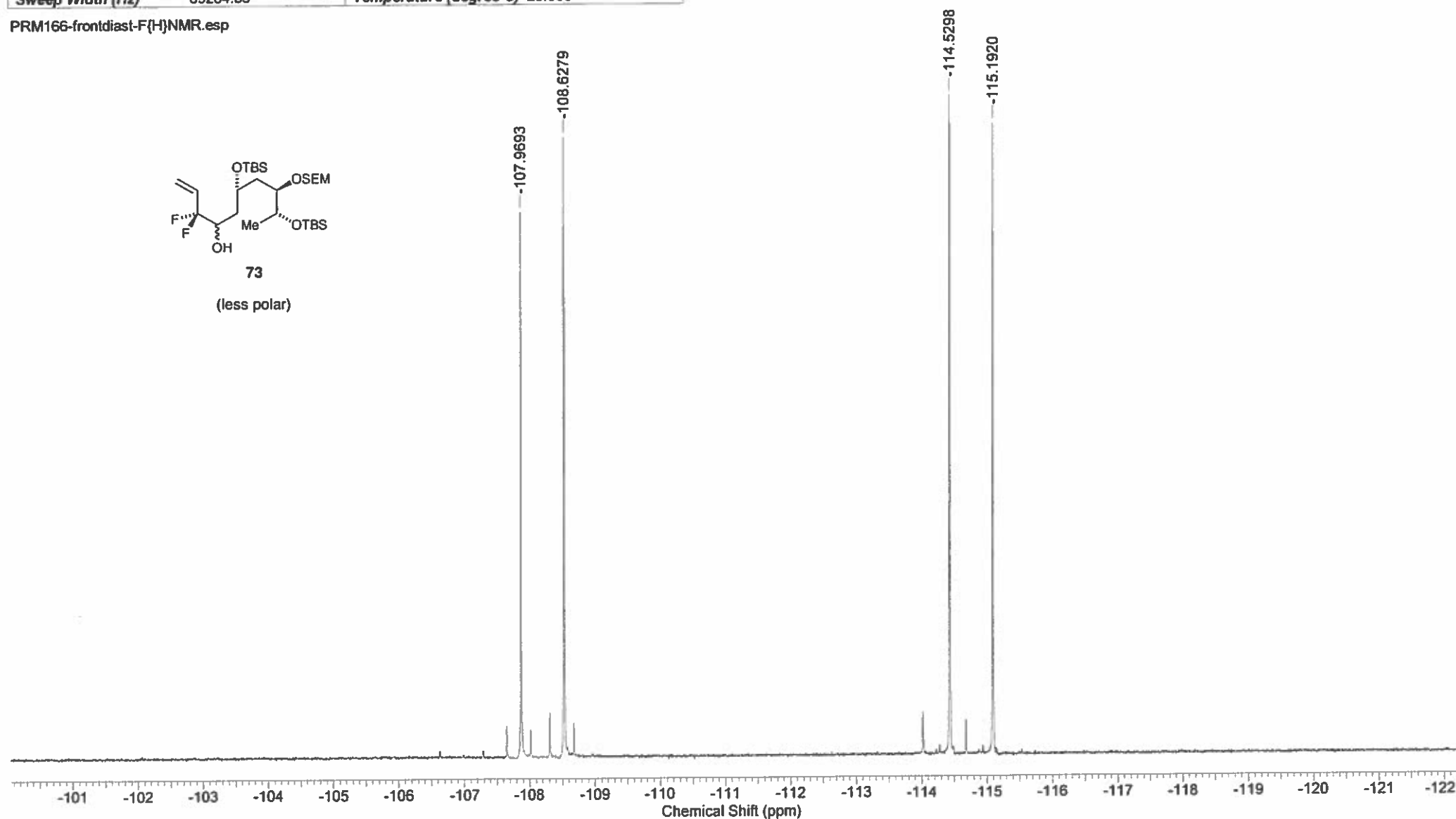
Acquisition Time (sec)	0.7340	Comment	EJT-PRM166 f12+13 34mg clean front diastereomer? mF19CPD CDCl3 (e:\bruk400adata\2015\Jan) ejt 2		
Date	08 Jan 2015 13:22:08	Date Stamp	08 Jan 2015 13:22:08		
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015\Jan\data\ejt\nmr\2015-01-08-ejt-2\15Vid			Frequency (MHz)	376.50
Nucleus	19F	Number of Transients	16	Origin	AV400
Owner	nmsu	Points Count	65536	Pulse Sequence	zgig
SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Receiver Gain	2050.00
Sweep Width (Hz)	89284.35	Temperature (degree C)	23.000	Spectrum Offset (Hz)	-37649.5977
				Spectrum Type	STANDARD

PRM166-frontdiast-F{H}NMR.esp



73

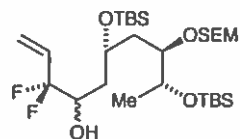
(less polar)



This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

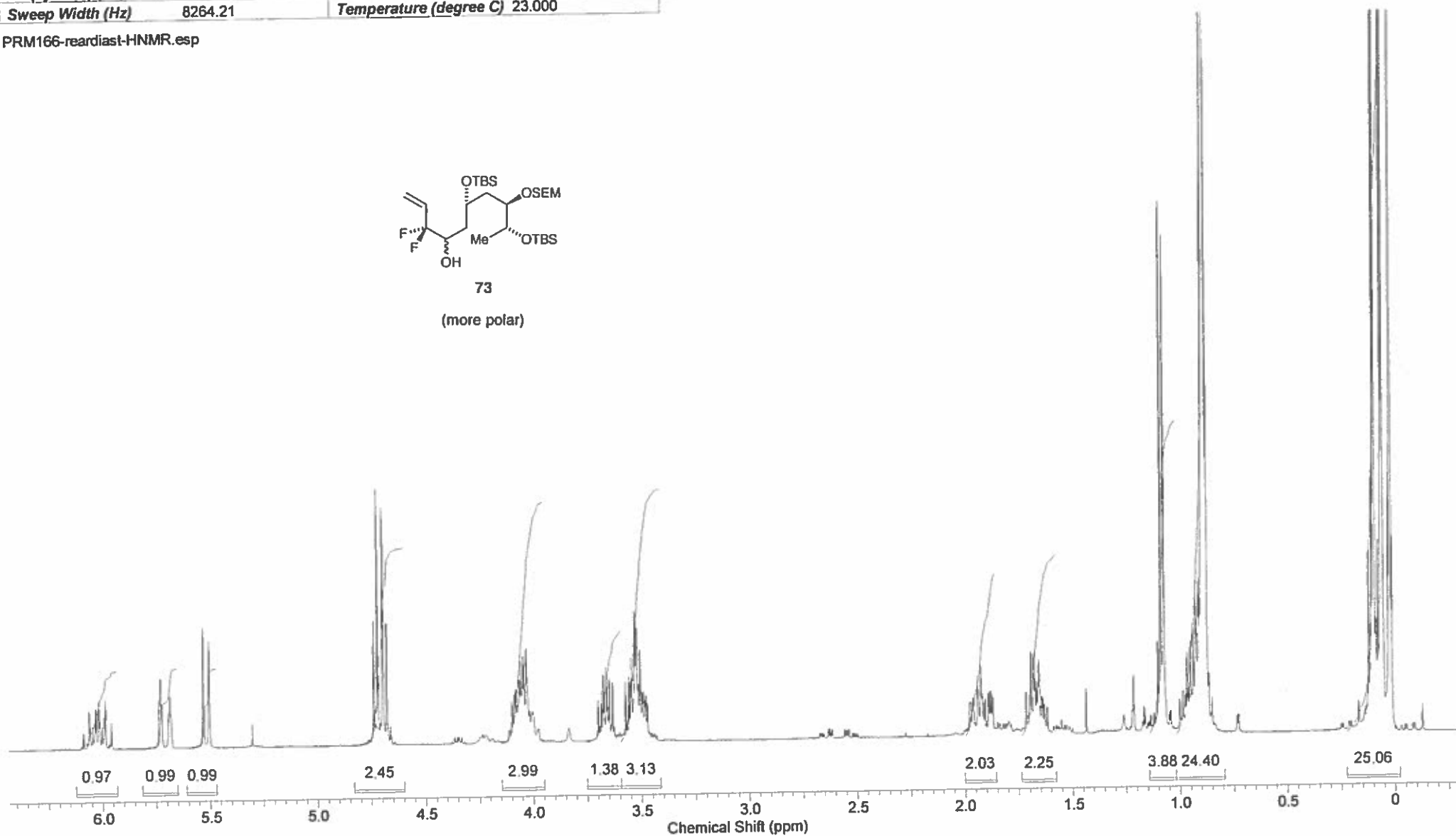
<b>Acquisition Time (sec)</b>	3.9649	<b>Comment</b>	EJT-PRM166 f39-43 40mg mPROTON CDCl3 (e:\bruk400adata\2015Jan) ejt 34		
<b>Date</b>	16 Jan 2015 11:35:28	<b>Date Stamp</b>	16 Jan 2015 11:35:28		
<b>File Name</b>	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015Jan\data\ejt\nmr\2015-01-16-ejt-34\10\fid			<b>Frequency (MHz)</b>	400.13
<b>Nucleus</b>	1H	<b>Number of Transients</b>	16	<b>Origin</b>	AV400
<b>Owner</b>	nmrsu	<b>Points Count</b>	32768	<b>Pulse Sequence</b>	zg30b
<b>SW(cyclical) (Hz)</b>	8264.46	<b>Solvent</b>	CHLOROFORM-d	<b>Spectrum Offset (Hz)</b>	2464.9272
<b>Sweep Width (Hz)</b>	8264.21	<b>Temperature (degree C)</b>	23.000	<b>Spectrum Type</b>	STANDARD

PRM166-reardiast-HNMR.esp



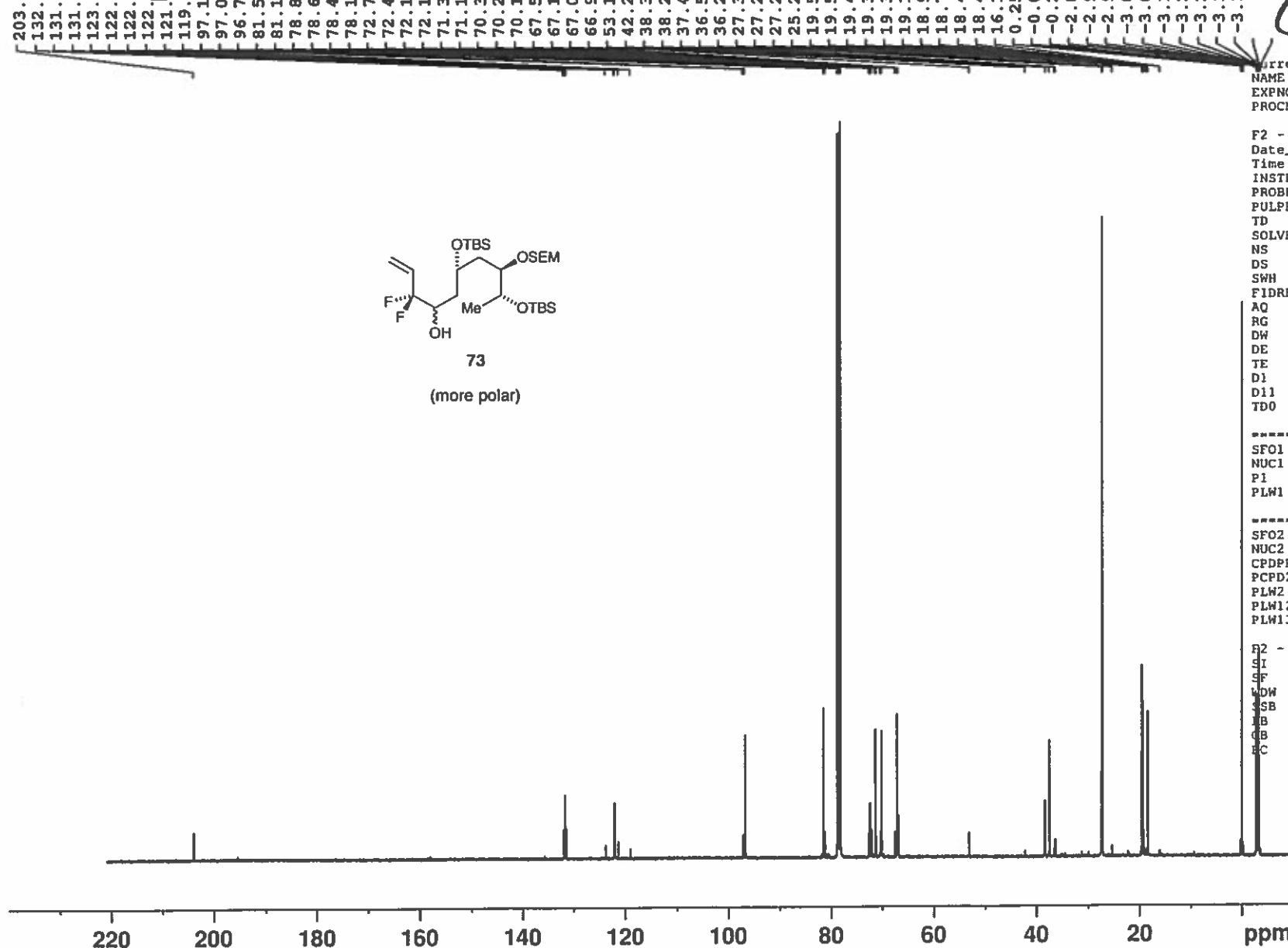
73

(more polar)



EJT-PRM166 clean rear diastereomer f39-43 40mg

mCARTON: B CDCl3 (e:\bruk400\data\2015\Jan) ejt 56



Current Data Parameters  
NAME 2015-01-16-ejt-56  
EXPNO 10  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20150116  
Time 22.49  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 1024  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 45.2  
DW 20.800 usec  
DE 41.77 usec  
TE 287.5 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

----- CHANNEL f1 -----  
SFO1 100.6077379 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

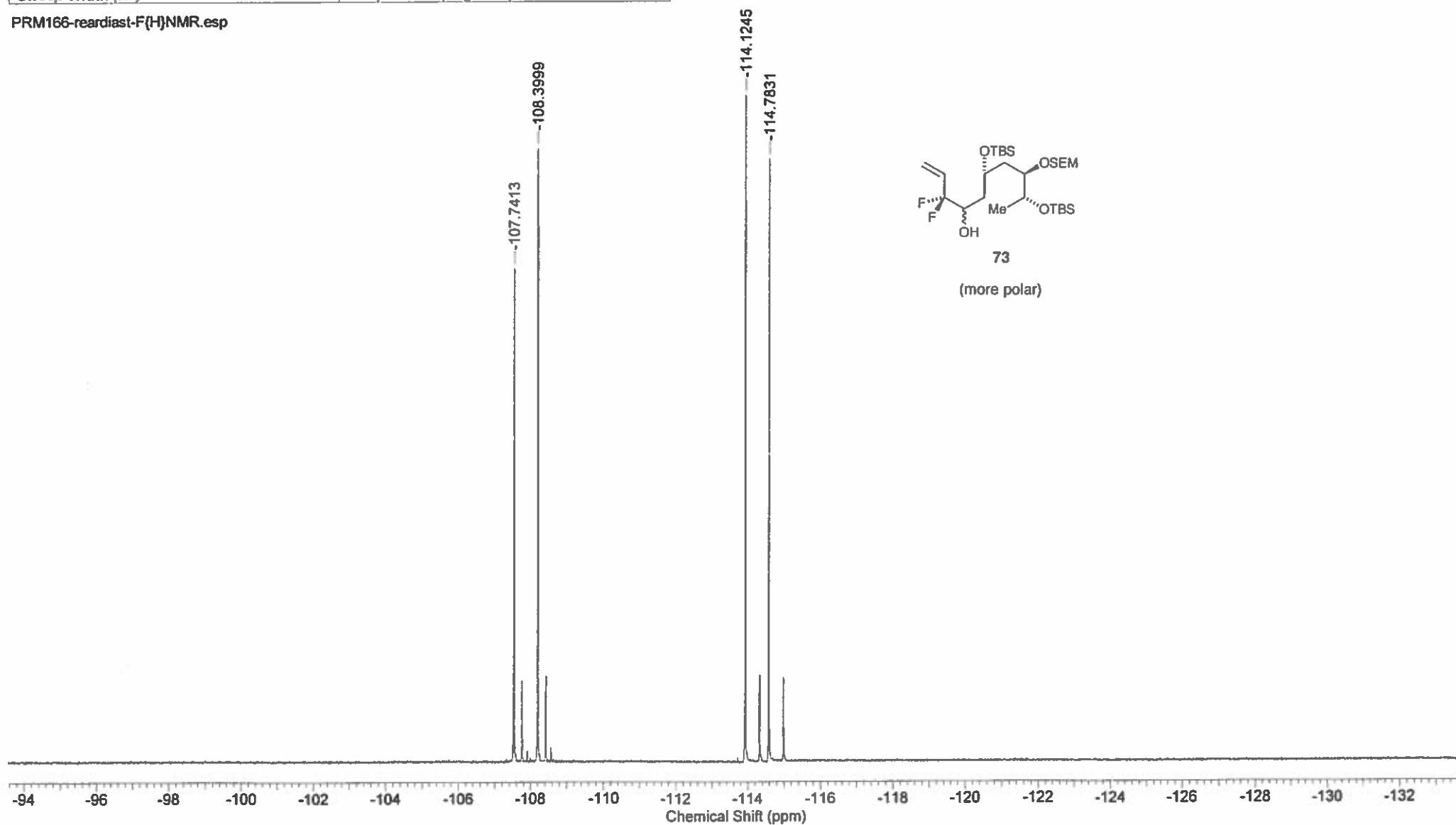
----- CHANNEL f2 -----  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRG[2] waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

R2 - Processing parameters  
SI 32768  
SF 100.5975375 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40

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Acquisition Time (sec)	0.7340	Comment	EJT-PRM166 f39-43 40mg mF19CPD CDCl3 (e:\bruk400adata\2015\Jan) ejt 34		
Date	16 Jan 2015 11:39:44	Date Stamp	16 Jan 2015 11:39:44		
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015\Jan\data\ejt\nmr\2015-01-16-ejt-34\12\fid			Frequency (MHz)	376.50
Nucleus	19F	Number of Transients	16	Origin	AV400
Owner	nmrsu	Points Count	65536	Pulse Sequence	zgig
SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Receiver Gain	322.00
Sweep Width (Hz)	89284.35	Temperature (degree C)	23.000	Spectrum Offset (Hz)	-37649.5977
				Spectrum Type	STANDARD

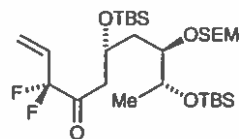
PRM166-reardiast-F(H)NMR.esp



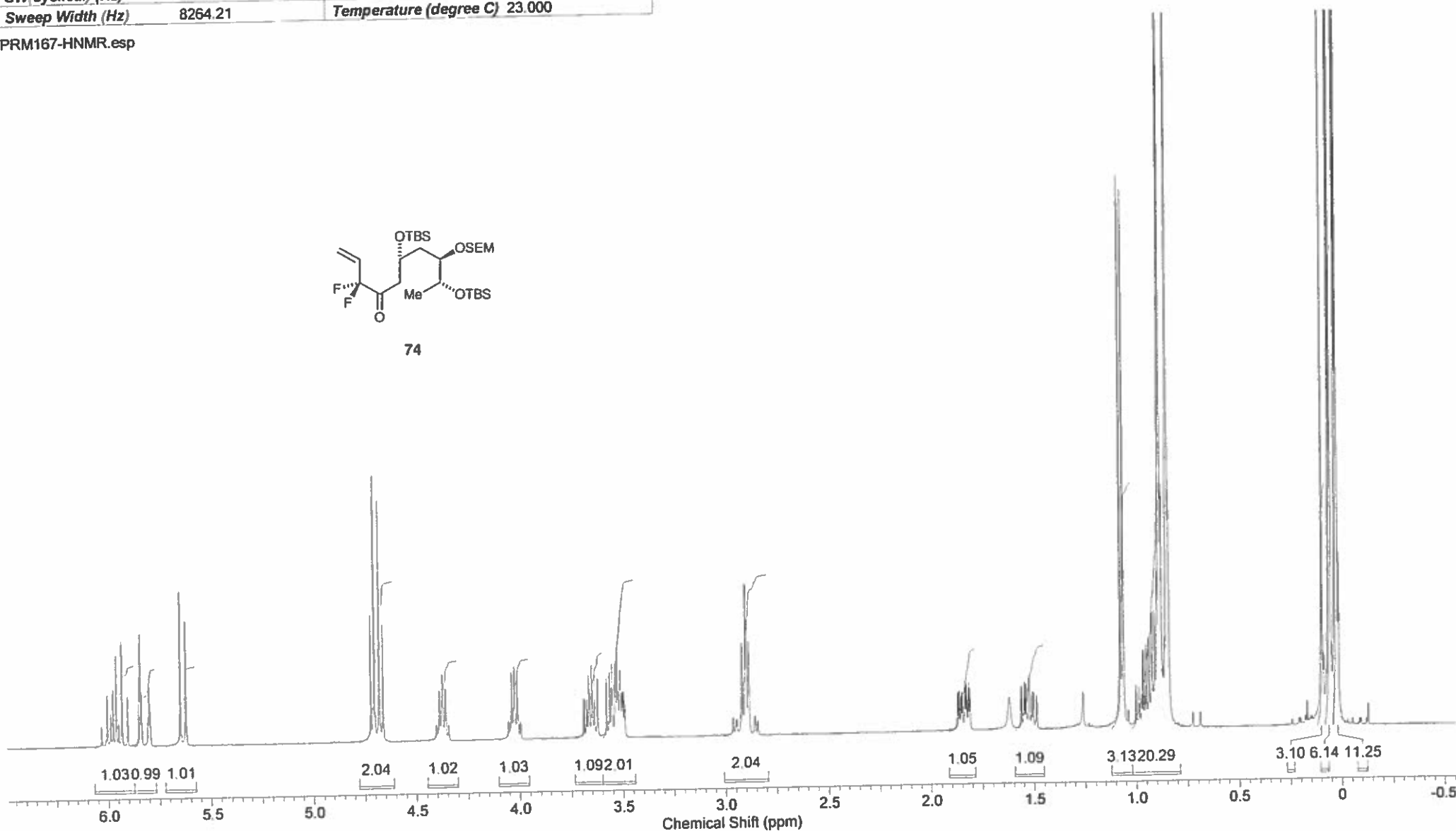
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

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Acquisition Time (sec)	3.9649	Comment		EJT-PRM167 f8-22 47mg mPROTON CDCl3 (e:\bruk400adata\2014\Dec) ejt 59				
Date	18 Dec 2014 14:13:20		Date Stamp		18 Dec 2014 14:13:20			
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2014\Dec\data\ejt\nmr\2014-12-18-ejt-59\10\fid				Frequency (MHz)	400.13		
Nucleus	1H	Number of Transients	16	Origin	AV400	Original Points Count	32768	
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30b	Receiver Gain	90.50	
SW (cyclical) (Hz)	8264.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	2464.9270	Spectrum Type	STANDARD	
Sweep Width (Hz)	8264.21	Temperature (degree C)	23.000					

PRM167-HNMR.esp



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EJT-PRM167 f8-22 47mg  
mCARBON\_B CDC13 {e:\bruk400cdata\2014\Dec\ejt-3



199.8  
199.8  
199.8

130.8  
129.8  
129.8  
124.4  
124.4  
124.4  
118.8  
115.1  
113.1

96.97  
81.20  
80.26  
78.79  
78.68  
78.47  
78.16  
70.53  
70.36  
67.49  
66.92

46.69  
38.32  
31.17  
27.33  
27.29  
19.82  
19.58  
19.51  
19.38  
19.18  
19.04  
18.55  
0.25  
-0.00

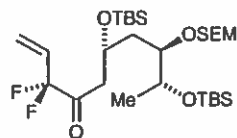
Current Data Parameters  
NAME 2014-12-18-ejt-3  
EXPNO 10  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20141218  
Time 22.00  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDC13  
NS 1024  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 45.2  
DW 20.800 usec  
DE 41.77 usec  
TE 296.1 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

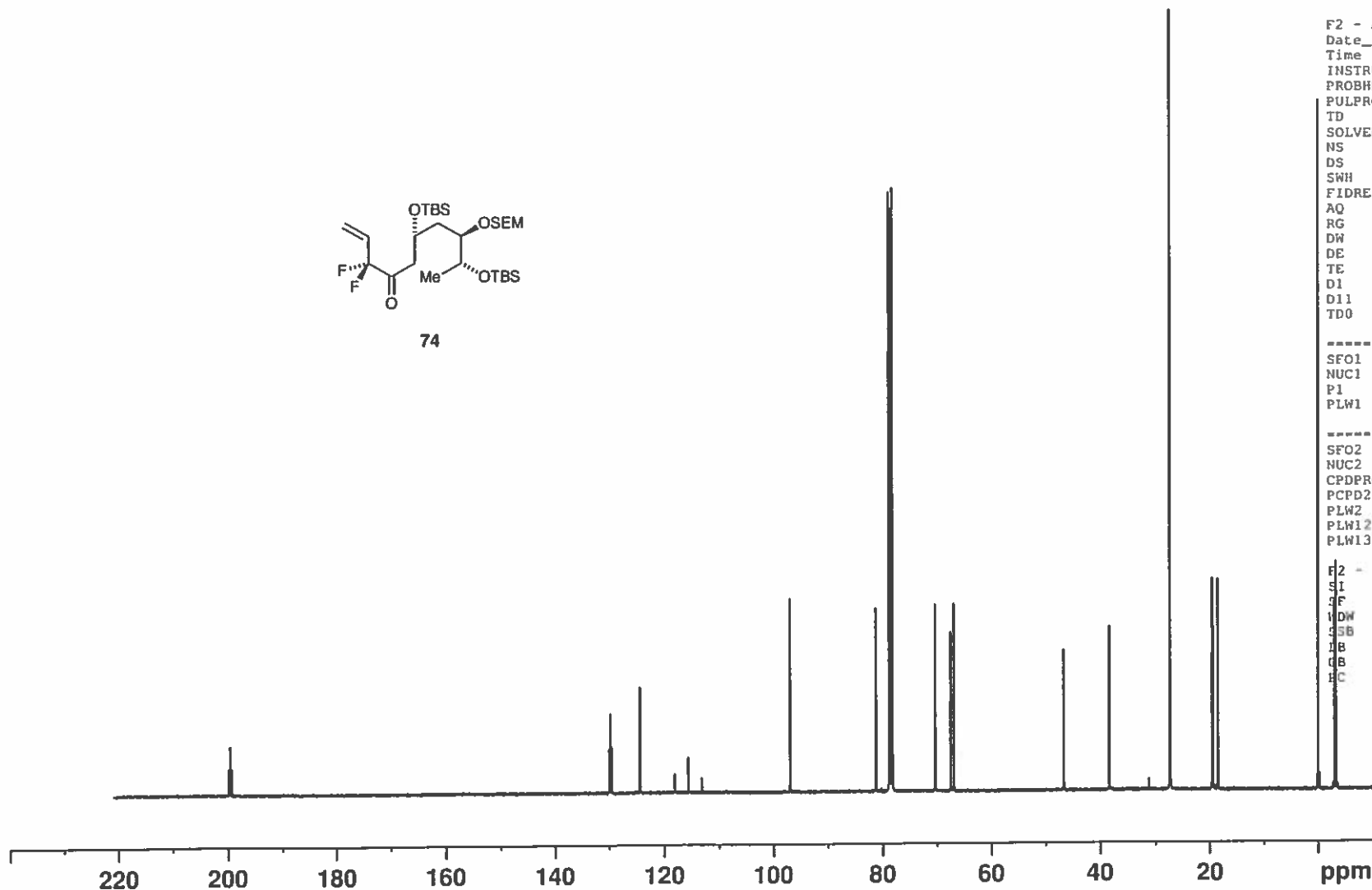
----- CHANNEL f1 -----  
SFO1 100.6077379 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

----- CHANNEL f2 -----  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRG2 waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

F2 - Processing parameters  
SI 32768  
SF 100.5975350 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
HC 1.40



74

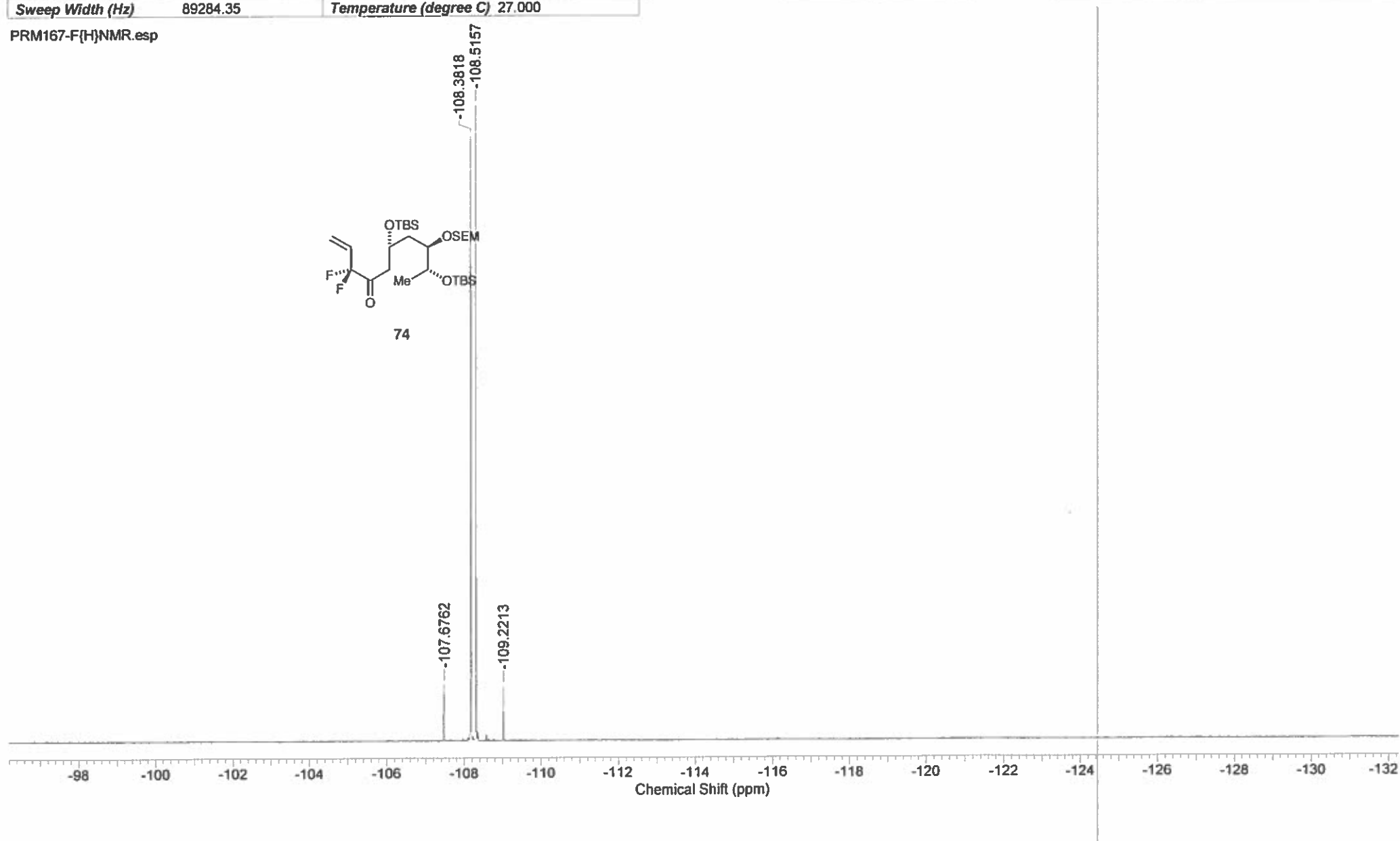
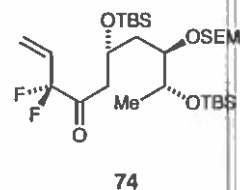




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Acquisition Time (sec)	0.7340	Comment	EJT-PRM167 f8-22 47mg mF19CPD CDCl3 (e:\bruk400adata\2014\Dec) ejt 59		
Date	18 Dec 2014 14:17:36	Date Stamp	18 Dec 2014 14:17:36		
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2014\Dec\data\ejt\nmr\2014-12-18-ejt-59\12\fid			Frequency (MHz)	376.50
Nucleus	19F	Number of Transients	16	Origin	AV400
Owner	nmrsu	Points Count	65536	Pulse Sequence	zgig
SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37649.5977
Sweep Width (Hz)	89284.35	Temperature (degree C)	27.000	Spectrum Type	STANDARD

PRM167-F(H)NMR.esp

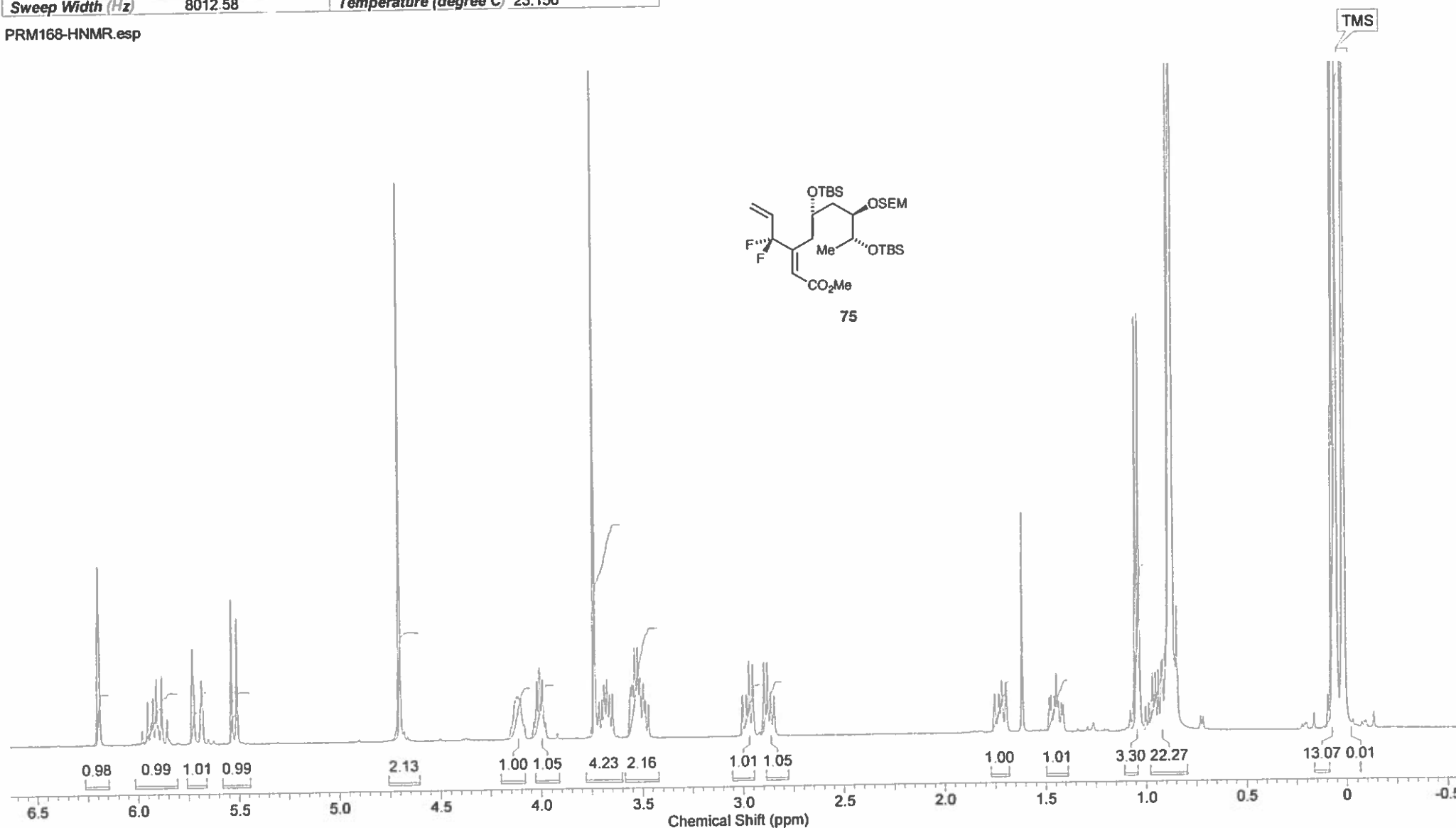


This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmr/proc](http://www.acdlabs.com/nmr/proc)

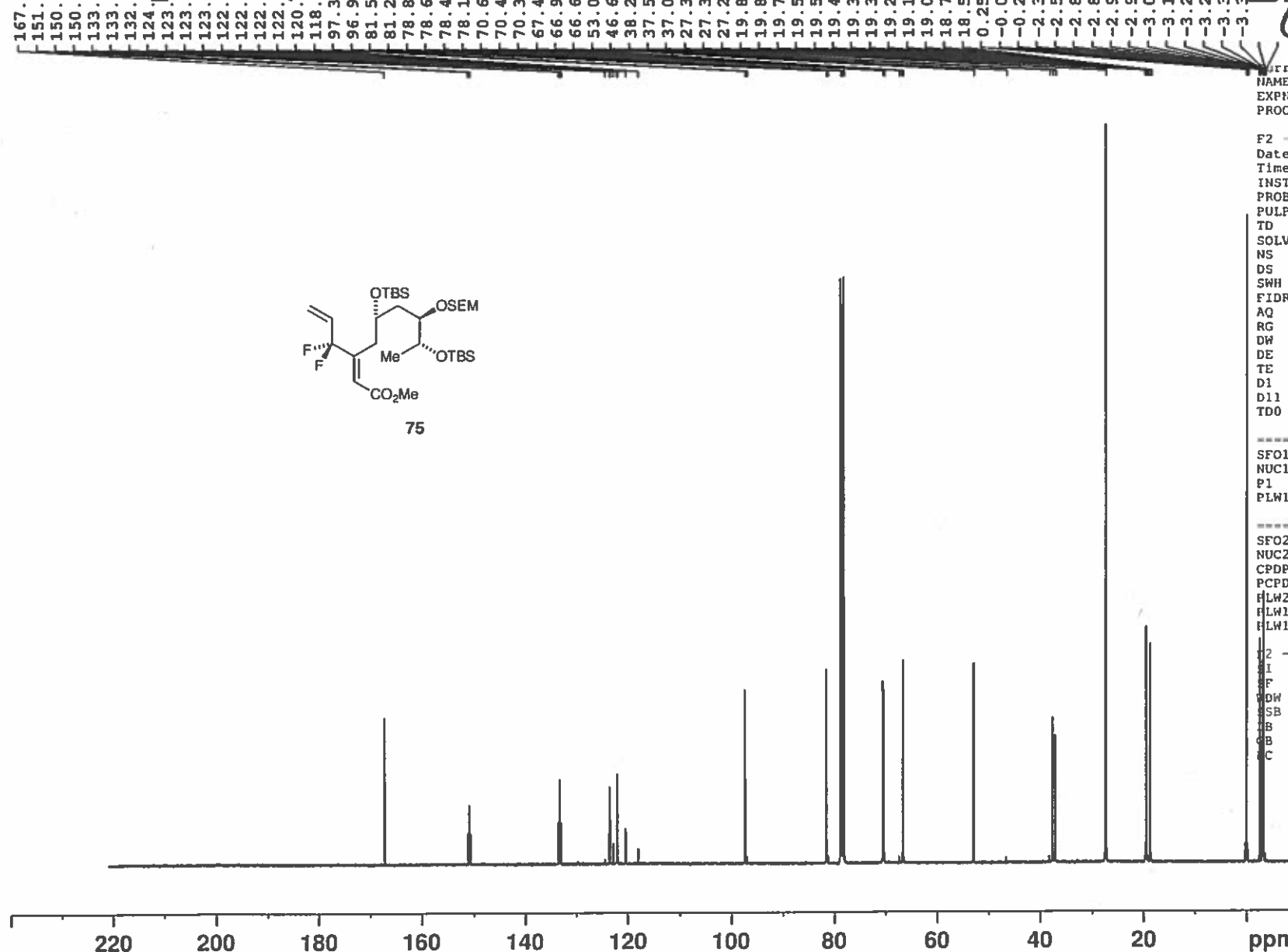
Acquisition Time (sec)	4.0894	Comment	EJT-PRM168 f7-9 38mg mPROTON A CDCl3 (e:\bruk400cdata\2015Jan) ejt 10				
Date	07 Jan 2015 16:34:08		Date Stamp	07 Jan 2015 16:34:08			
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015Jan\data\ejt\nmr\2015-01-07-ejt-10\10\vid						
Nucleus	<sup>1</sup> H	Number of Transients	16	Origin	spect	Frequency (MHz)	400.07
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30	Original Points Count	32768
SW(cyclical) (Hz)	8012.82	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	1894.5574	Receiver Gain	64.00
Sweep Width (Hz)	8012.58	Temperature (degree C)	23.150			Spectrum Type	STANDARD

PRM168-HNMR.esp



EJT-PRM168 Prod data

13C NMR of compound 75 in CDCl3 (Bruker 400cdata\2015\Jan\ejt-26



Current Data Parameters  
NAME 2015-01-11-ejt-26  
EXPNO 11  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20150112  
Time 19.11  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 1024  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 71.8  
DW 20.800 usec  
DE 41.77 usec  
TE 288.3 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TDO 1

===== CHANNEL f1 =====  
SFO1 100.6077379 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

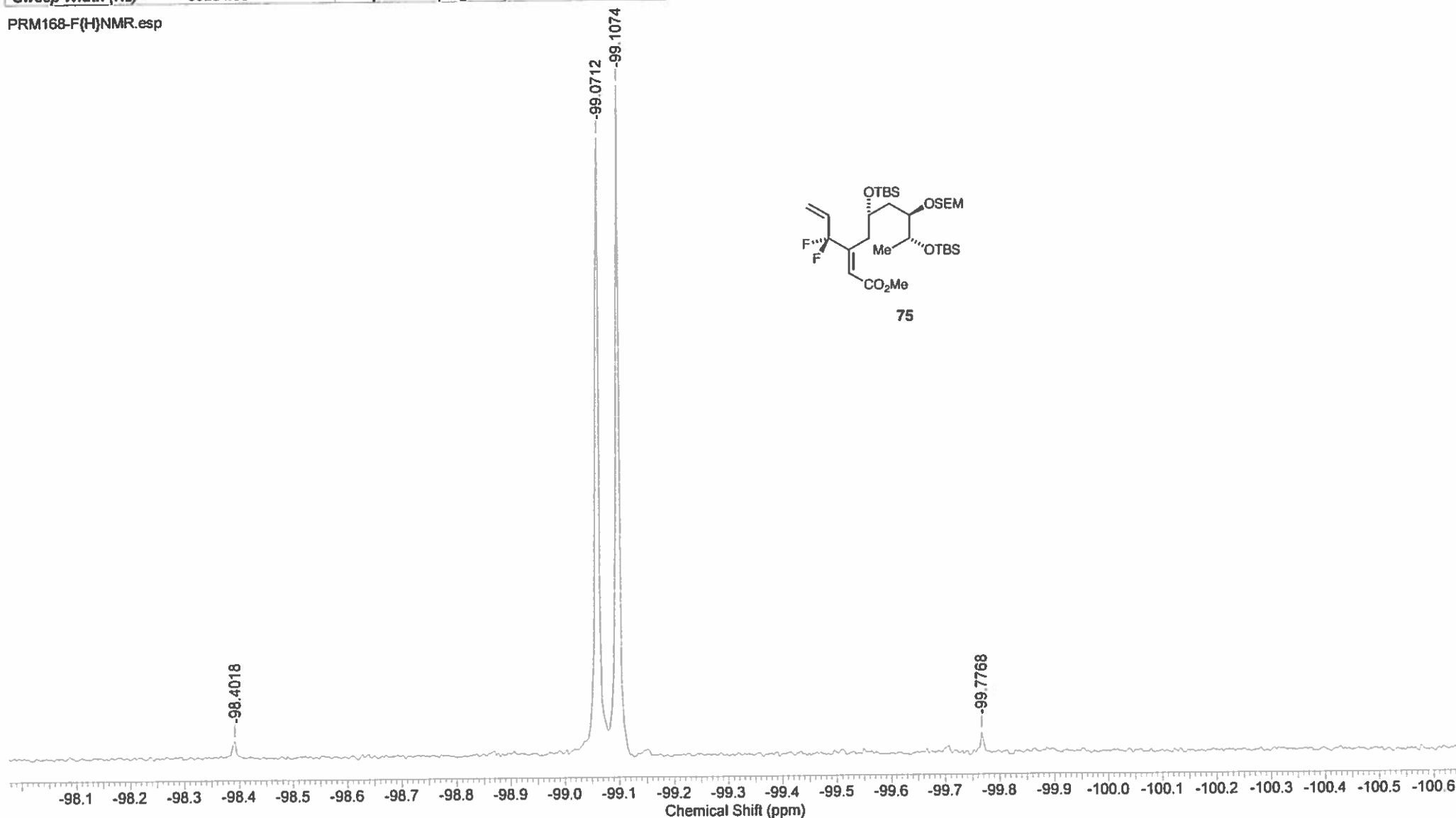
===== CHANNEL f2 =====  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRG2 waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

F2 - Processing parameters  
SI 32768  
SF 100.5975370 MHz  
WDW EM  
SSB 0  
GB 1.00 Hz  
CB 0  
SC 1.40

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Acquisition Time (sec)	0.7340	Comment	EJT-PRM169 f17-33 124mg mF19CPD CDCl3 (e:\bruk400adata\2015\Jan) ejt 29		
Date	10 Jan 2015 15:32:16	Date Stamp	10 Jan 2015 15:32:16		
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015\Jan\data\ejt\nmr\2015-01-10-ejt-29\12\fid			Frequency (MHz)	376.50
Nucleus	19F	Number of Transients	16	Origin	AV400
Owner	nmrsu	Points Count	65536	Pulse Sequence	zgig
SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37649.5977
Sweep Width (Hz)	89284.35	Temperature (degree C)	23.000	Spectrum Type	STANDARD

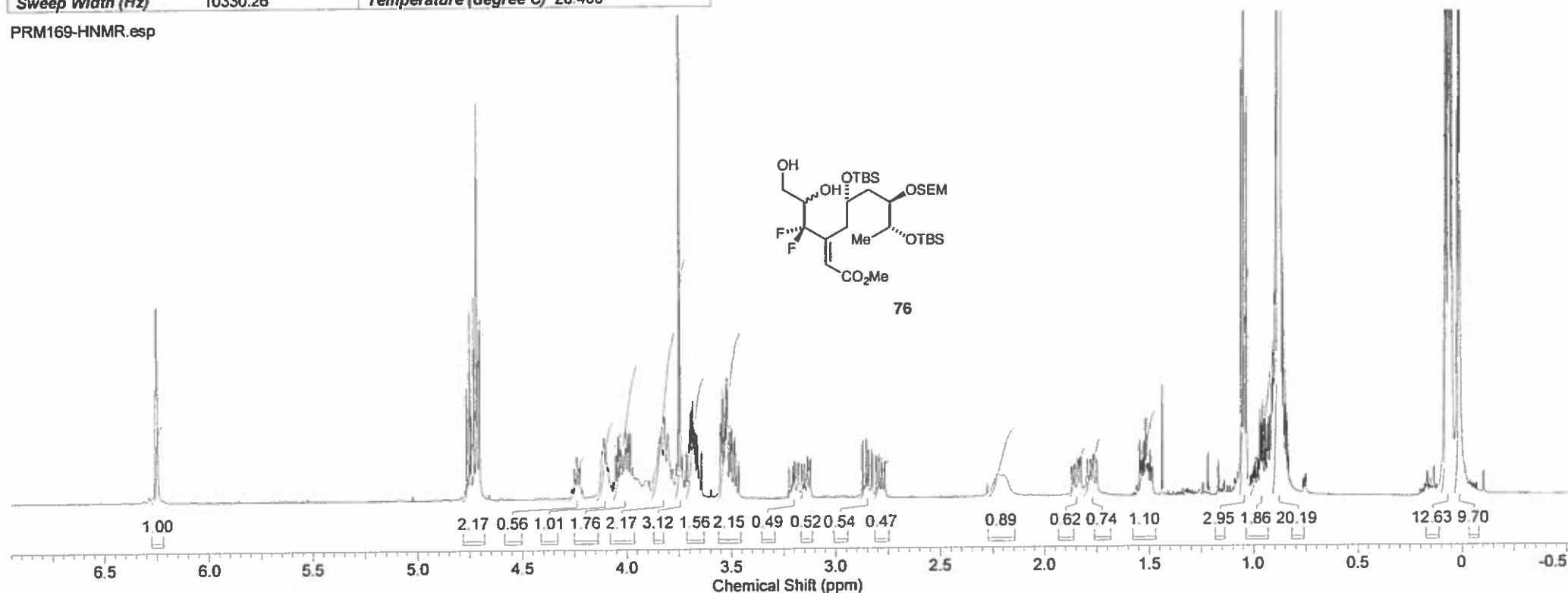
PRM168-F(H)NMR.esp



This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	3.1719	Comment	EJT-PRM169 f28-36 44mg mPROTON CDC13 (E:\bruk500adata\2015\Jan) ejt 10		
Date	12 Jan 2015 13:05:04	Date Stamp	12 Jan 2015 13:05:04		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500adata\2015\Jan\data\ejt\nmr\2015-01-12-ejt-10\20Vid			Frequency (MHz)	500.13
Nucleus	<sup>1</sup> H	Number of Transients	16	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30
SW(cyclical) (Hz)	10330.58	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	3081.5532
Sweep Width (Hz)	10330.26	Temperature (degree C)	20.400	Spectrum Type	STANDARD

PRM169-HNMR.esp

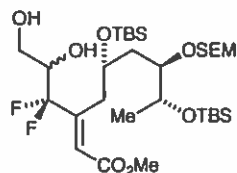


No.	(ppm)	Value	Absolute Value	Non-Negative Value	No.	(ppm)	Value	Absolute Value	Non-Negative Value
1	0087 .. 0.039.70469666	1.55986125e+10	9.70469666		12	1107 .. 3.160.51732343	8.31507520e+8	0.51732343	
2	0363 .. 0.102.63145828	2.03028726e+10	12.63145828		13	1687 .. 3.230.49489146	7.95451968e+8	0.49489146	
3	0486 .. 0.900.18981934	3.24516250e+10	20.18981934		14	4552 .. 3.562.15453339	3.46303770e+9	2.15453339	
4	0102 .. 1.011.85710049	2.98496614e+9	1.85710049		15	5323 .. 3.711.56468415	2.51495782e+9	1.56468415	
5	0235 .. 1.062.95424557	4.74843597e+9	2.95424557		16	7205 .. 3.763.11513853	5.00704358e+9	3.11513853	
6	0679 .. 1.571.09587038	1.76142106e+9	1.09587038		17	7679 .. 3.882.17377329	3.49396250e+9	2.17377329	
7	7343 .. 1.800.74124676	1.19142528e+9	0.74124676		18	9501 .. 4.061.75517964	2.82114611e+9	1.75517964	
8	3096 .. 1.880.62363493	1.00238470e+9	0.62363493		19	0657 .. 4.141.01384950	1.62958682e+9	1.01384950	
9	1451 .. 2.270.89462709	1.43795750e+9	0.89462709		20	1993 .. 4.280.56165135	9.02756928e+8	0.56165135	
10	7469 .. 2.810.47494268	7.63387776e+8	0.47494268		21	3814 .. 4.782.17071009	3.48903910e+9	2.17071009	
11	3156 .. 2.880.53880036	8.66027904e+8	0.53880036		22	2189 .. 6.271.00053573	1.60818714e+9	1.00053573	

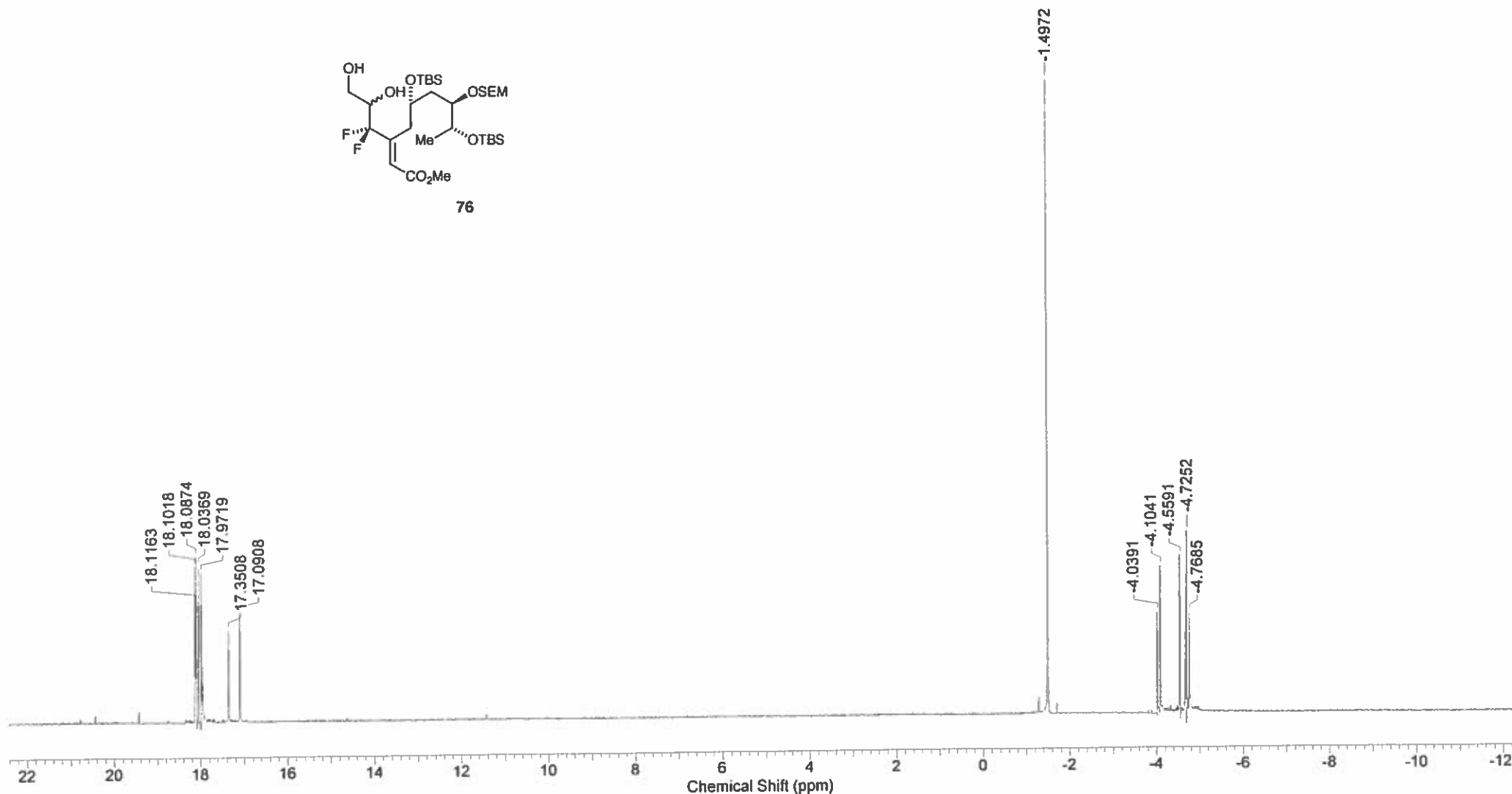
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010	Comment	EJT-PRM 169 f28-36 44mg 0115 062 mCARBON CDCl3 (E:\bruk500cdata\2015Jan) staff 10			
Date	14 Jan 2015 02:48:32	Date Stamp	14 Jan 2015 02:48:32			
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015Jan\data\staff\nmr\2015-01-13-staff-10\11Vid		Frequency (MHz)	125.77		
Nucleus	13C	Number of Transients	5000	Origin	spect	Original Points Count
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain
SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	12571.4053	Spectrum Type
Sweep Width (Hz)	29761.00	Temperature (degree C)	24.997	STANDARD		

PRM169-CNMR.esp



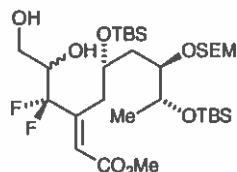
76



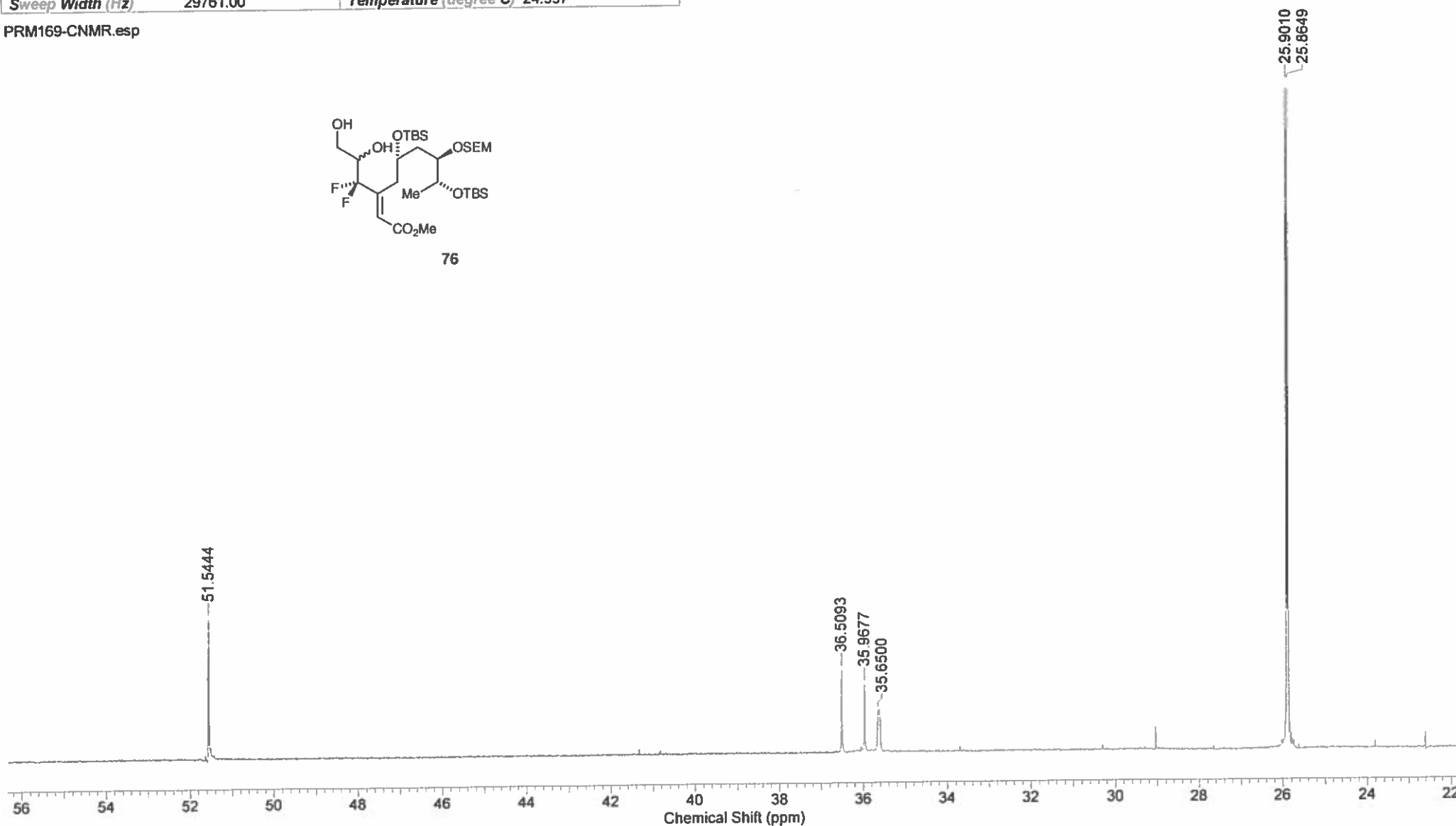
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010	Comment	EJT-PRM 169 f28-36 44mg 0115 062 mCARBON CDCl3 (E:\bruk500cdata\2015\Jan) staff 10		
Date	14 Jan 2015 02:48:32	Date Stamp	14 Jan 2015 02:48:32		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015\Jan\data\staff\nmr\2015-01-13-staff-10\11\fid			Frequency (MHz)	125.77
Nucleus	13C	Number of Transients	5000	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Receiver Gain	184.40
Sweep Width (Hz)	29761.00	Temperature (degree C)	24.997	Spectrum Offset (Hz)	12571.4053
				Spectrum Type	STANDARD

PRM169-CNMR.esp



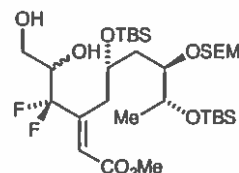
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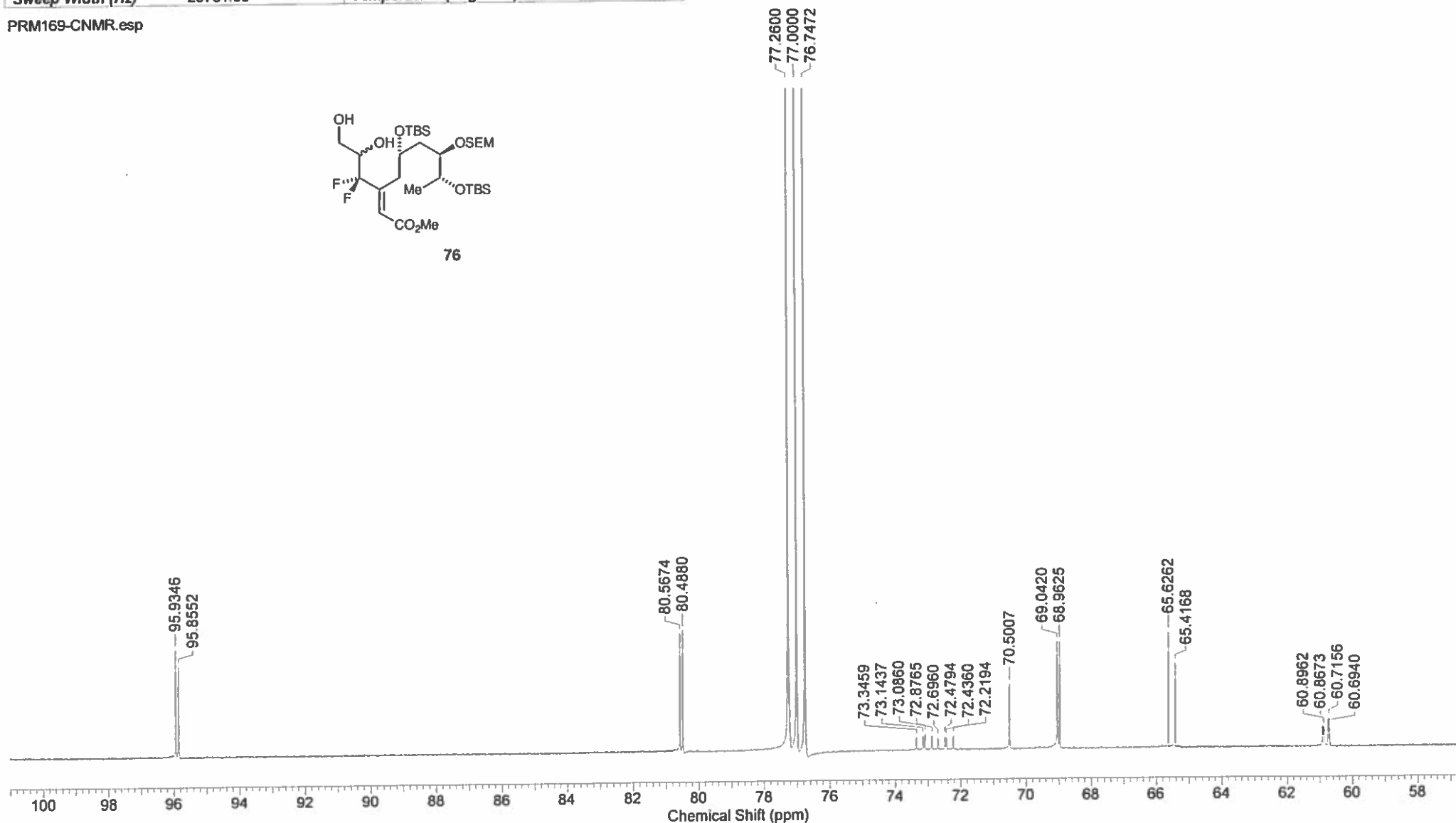
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010	Comment	EJT-PRM 169 f28-36 44mg 0115 062 mCARBON CDCl3 (E:\bruk500cdata\2015Jan) staff 10		
Date	14 Jan 2015 02:48:32	Date Stamp	14 Jan 2015 02:48:32		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015Jan\data\staff\nmr\2015-01-13-staff-10\11\fid			Frequency (MHz)	125.77
Nucleus	13C	Number of Transients	5000	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Original Points Count	32768
Sweep Width (Hz)	29761.00	Temperature (degree C)	24.997	Receiver Gain	184.40
				Spectrum Offset (Hz)	12571.4053
				Spectrum Type	STANDARD

PRM169-CNMR.esp



76

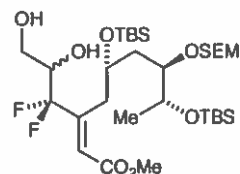




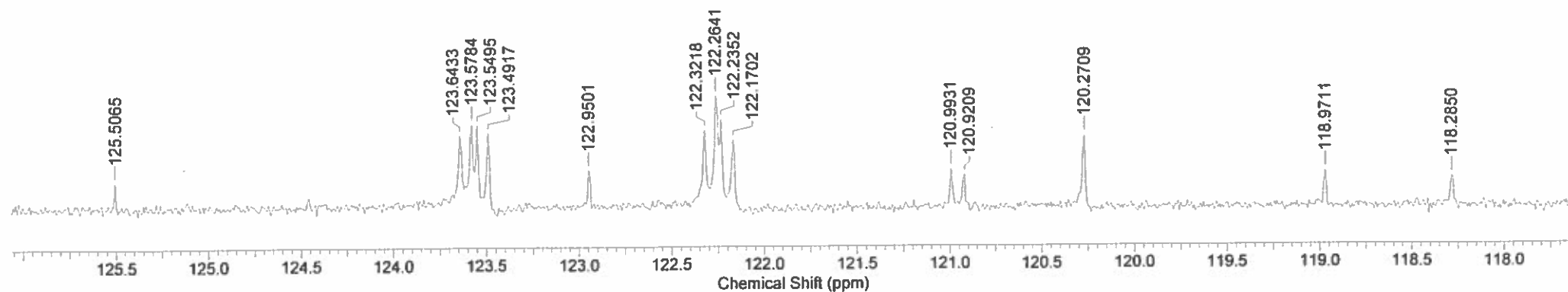
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010	Comment	EJT-PRM 169 (28-36 44mg 0115 062 mCARBON CDCl3 (E:\bruk500cdata\2015Jan) staff 10		
Date	14 Jan 2015 02:48:32	Date Stamp	14 Jan 2015 02:48:32		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015Jan\data\staff\nmr\2015-01-13-staff-10\11Vid			Frequency (MHz)	125.77
Nucleus	<sup>13</sup> C	Number of Transients	5000	Origin	spect
Owner	nmsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	12571.4053
Sweep Width (Hz)	29761.00	Temperature (degree C)	24.997	Spectrum Type	STANDARD

PRM169-CNMR.esp



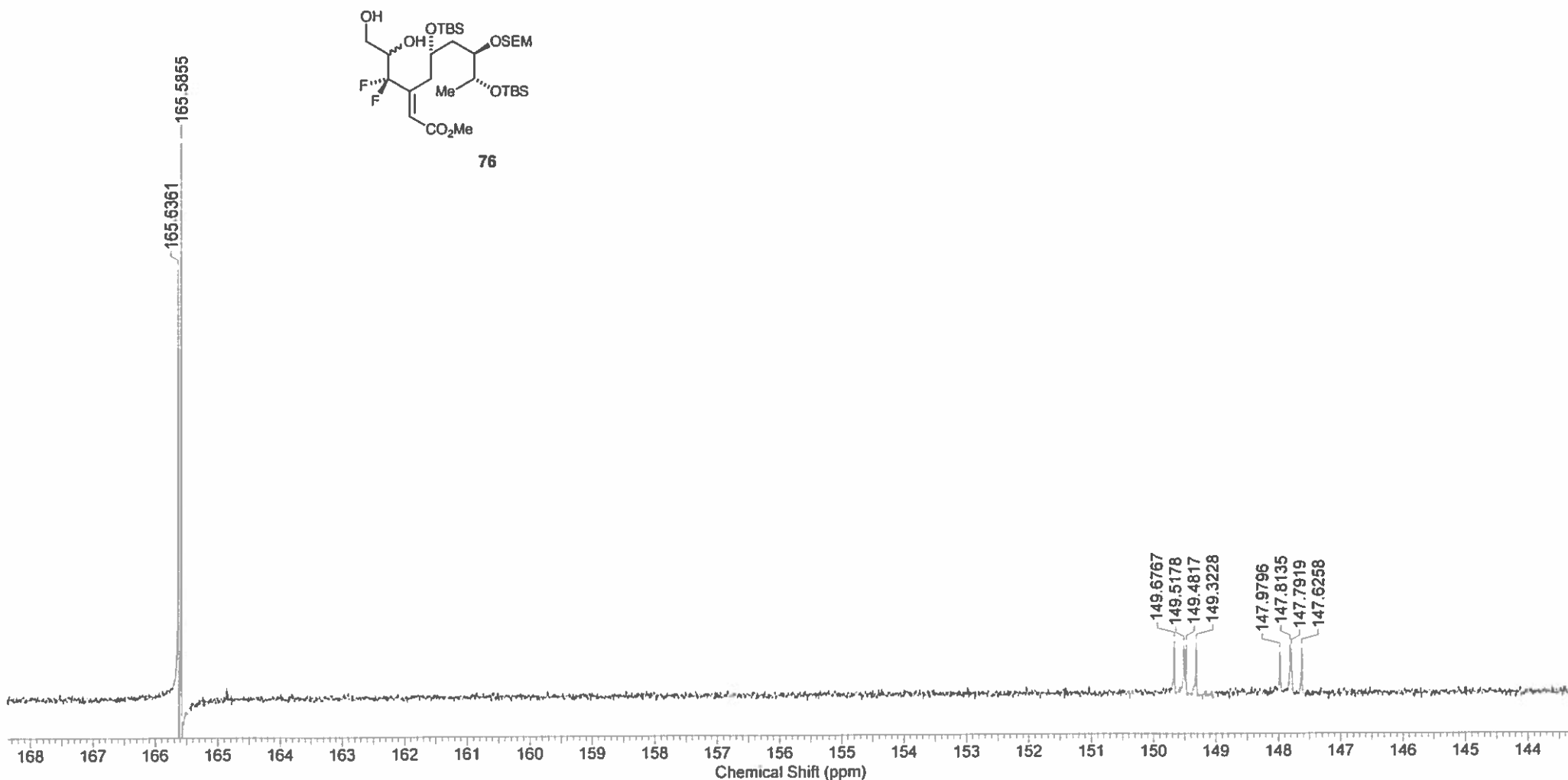
76



This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010	Comment	EJT-PRM 169 f28-36 44mg 0115 062 mCARBON CDCl3 (E:\bruk500cdata\2015Jan) staff 10				
Date	14 Jan 2015 02:48:32	Date Stamp	14 Jan 2015 02:48:32				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015Jan\data\staff\nmr\2015-01-13-staff-10\11\fid					Frequency (MHz)	125.77
Nucleus	13C	Number of Transients	5000	Origin	spect	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	184.40
SW(cyclical) (Hz)	29761.90	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	12571.4053	Spectrum Type	STANDARD
Sweep Width (Hz)	29761.00	Temperature (degree C)	24.997				

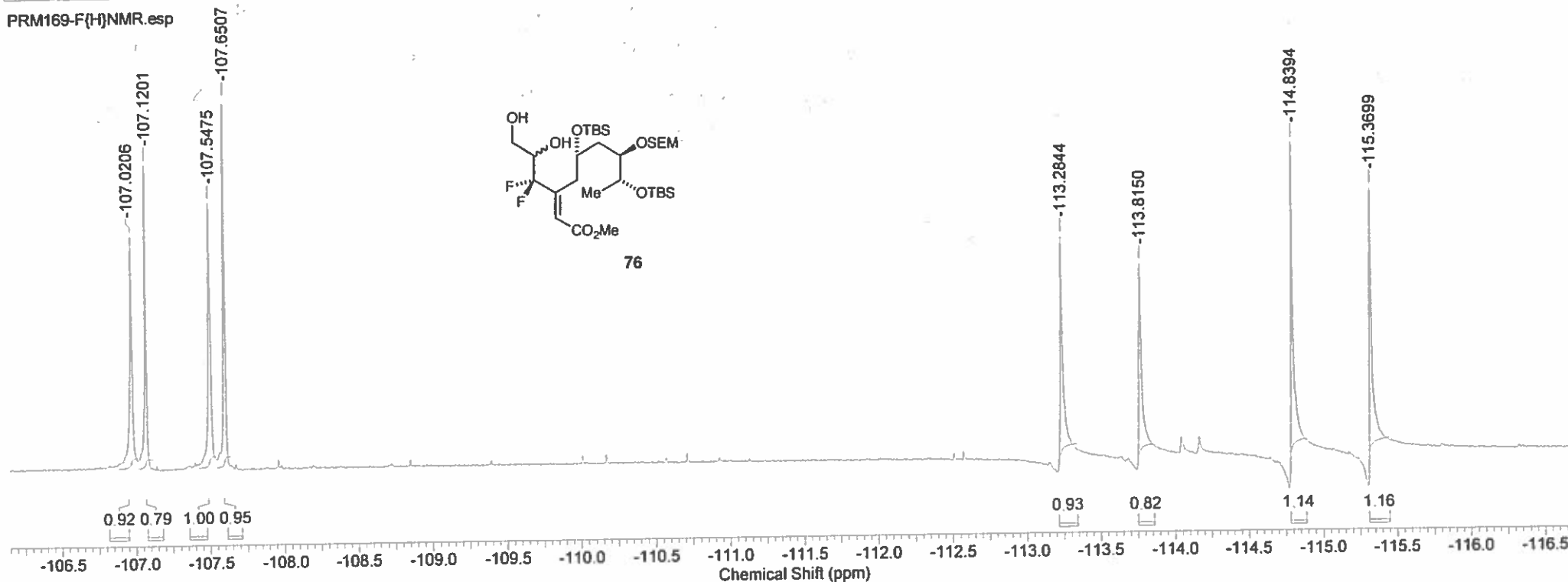
PRM169-CNMR.esp



This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	0.5767	Comment	EJT-PRM169 f28-36 44mg m19FCPD CDCl3 (E:\bruk500adata\2015\Jan) ejt 10	
Date	12 Jan 2015 13:09:20	Date Stamp	12 Jan 2015 13:09:20	
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500adata\2015\Jan\data\ejt\nmr\2015-01-12-ejt-10\23\fid	Frequency (MHz)	470.59	
Nucleus	19F	Original Points Count	65536	
Owner	nmrsu	Receiver Gain	575.00	
SW(cyclical) (Hz)	113636.37	Spectrum Type	STANDARD	
Sweep Width (Hz)	113634.63	Temperature (degree C)	20.500	
		Number of Transients	16	
		Points Count	65536	
		Solvent	CHLOROFORM-d	
		Pulse Sequence	zgfhigqn	
		Spectrum Offset (Hz)	-47059.0234	

PRM169-F(1H)NMR.esp

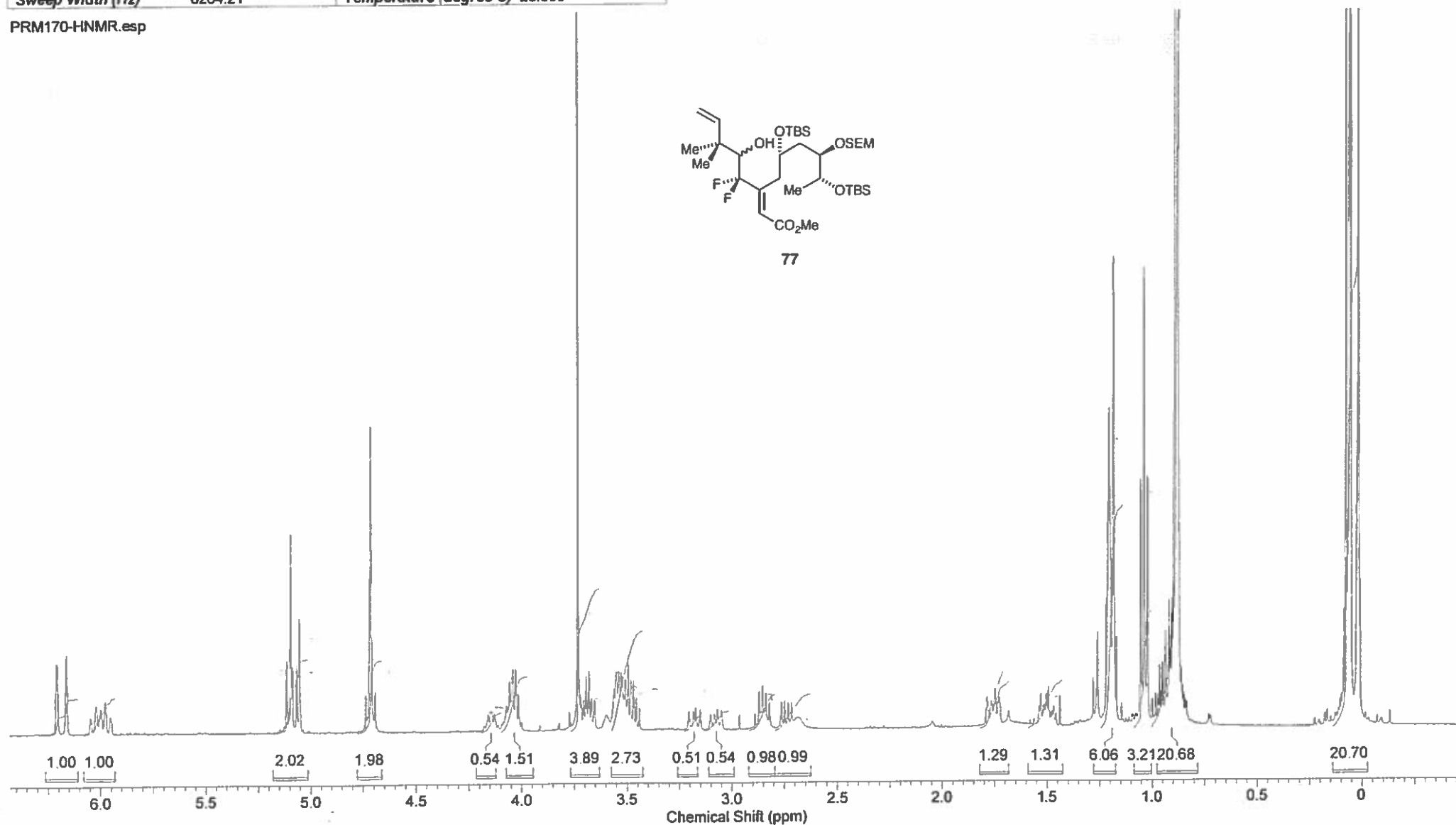


No.	(ppm)	Value	Absolute Value	Non-Negative Value
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2	3359 .. -1141.13637888		1.99388979e+9	1.13637888
3	3101 .. -1130.82051349		1.43967245e+9	0.82051349
4	3913 .. -1130.92547381		1.62383578e+9	0.92547381
5	3915 .. -1070.94717634		1.66191501e+9	0.94717634
6	5948 .. -1070.99769104		1.75054810e+9	0.99769104
7	1681 .. -1070.79453856		1.39409690e+9	0.79453856
8	0656 .. -1060.92355108		1.62046221e+9	0.92355108

This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

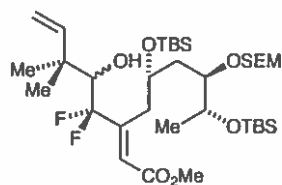
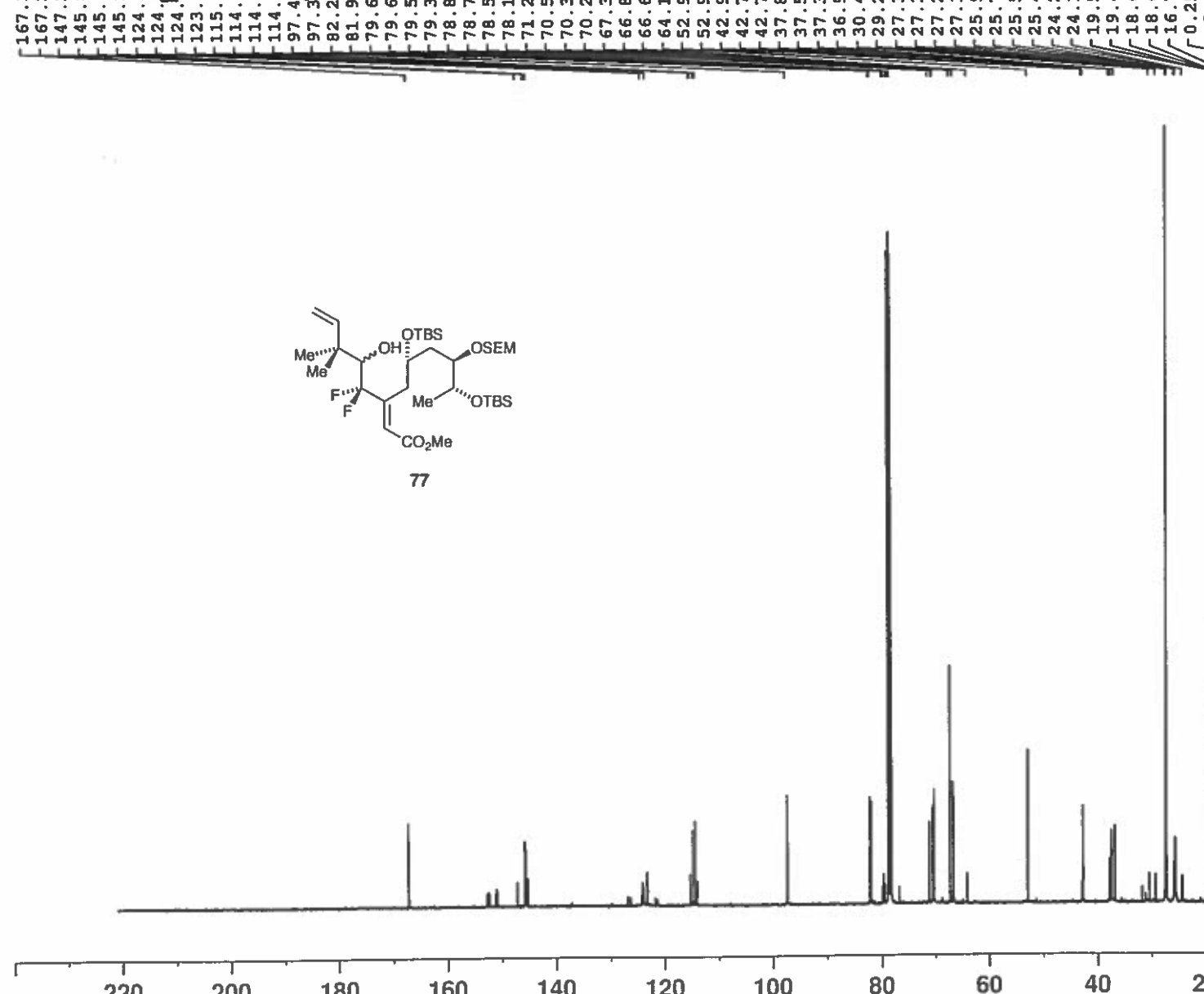
Acquisition Time (sec)	3.9649	Comment	EJT-PRM170 f75-87 27mg mPROTON CDC13 (e:\bruk400adata\2015\Jan)\ejt-38		
Date	21 Jan 2015 14:06:56		Date Stamp	21 Jan 2015 14:06:56	
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015\Jan\data\ejt-38\10\vid			Frequency (MHz)	400.13
Nucleus	<sup>1</sup> H	Number of Transients	16	Origin	AV400
Owner	nmsu	Points Count	32768	Pulse Sequence	zg30b
SW(cyclical) (Hz)	8264.46	Solvent	CHLOROFORM-d	Receiver Gain	101.00
Sweep Width (Hz)	8264.21	Temperature (degree C)	23.000	Spectrum Offset (Hz)	2464.9270
				Spectrum Type	STANDARD

PRM170-HNMR.esp



EJT-PRM170 Prod

mCARBON-13-CPDB (e:\bruk400\data\2015\Jan)\ejt 16



77

Current Data Parameters  
NAME 2015-01-30-ejt-16  
EXPNO 10  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20150131  
Time 6.33  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDC13  
NS 1024  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 45.2  
DW 20.800 usec  
DE 41.77 usec  
TE 287.9 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TDO 1

===== CHANNEL f1 =====  
SFO1 100.6077379 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

===== CHANNEL f2 =====  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRG[2] waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

F2 - Processing parameters  
SI 32768  
SF 100.5975361 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
CB 1.40

<b>Acquisition Time (sec)</b>	0.7340	<b>Comment</b>	EJT-PRM170 f75-87 27mg mF19CPD CDCI3 (e:\bruk400\data\2015\Jan) ejt 38				
<b>Date</b>	21 Jan 2015 14:11:12		<b>Date Stamp</b>		21 Jan 2015 14:11:12		
<b>File Name</b>	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmr\data\bruk400\data\2015\Jan\data\ejt\nmr\2015-01-21-ejt-38112\fid				<b>Frequency (MHz)</b>	376.50	
<b>Nucleus</b>	19F	<b>Number of Transients</b>	16	<b>Origin</b>	AV400	<b>Original Points Count</b>	65536
<b>Owner</b>	nmrsu	<b>Points Count</b>	65536	<b>Pulse Sequence</b>	zgig	<b>Receiver Gain</b>	406.00
<b>SW(cyclical) (Hz)</b>	89285.71	<b>Solvent</b>	CHLOROFORM-d	<b>Spectrum Offset (Hz)</b>	-37649.5977	<b>Spectrum Type</b>	STANDARD
<b>Sweep Width (Hz)</b>	89284.35	<b>Temperature (degree C)</b>	23.000				

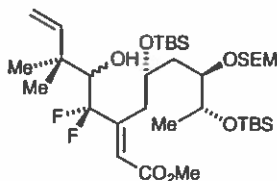
PRM170-F{H}NMR.esp

Chemical structure of compound **77** is shown above the spectrum. The structure is a substituted cyclohexane derivative with the following features: a vinyl group, a methyl group, a fluorine atom, a hydroxyl group (OTBS), a methoxycarbonyl group (CO<sub>2</sub>Me), a methoxy group (OSEM), and a methyl group (OTBS).

Chemical Shift (ppm): -97, -98, -99, -100, -101, -102, -103, -104, -105, -106, -107, -108, -109, -110, -111, -112, -113, -114, -115

Peak Data:

Chemical Shift (ppm)	Integration
-98.3837	0.18
-98.9373	0.18
-99.0350	0.21
-99.5687	0.21
-112.0077	0.21
-112.6590	0.20
-113.1982	0.21
-113.8531	0.19



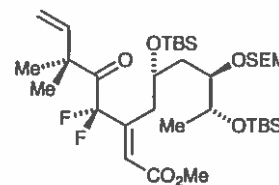
77

No.	(ppm)	Value	Absolute Value	Non-Negative Value
1	9327 .. -1130.	18757442	3.96218432e+8	0.18757442
2	2709 .. -1130.	20678121	4.36789440e+8	0.20678121
3	7358 .. -1120.	19675171	4.15603872e+8	0.19675171
4	9951 .. -1110.	21439180	4.52865504e+8	0.21439180
5	5717 .. -99.50	21261145	4.49104832e+8	0.21261145
6	1085 .. -98.50	20801891	4.39403872e+8	0.20801891
7	3958 .. -98.80	18103851	3.82412448e+8	0.18103851
8	4783 .. -98.30	17934489	3.78834976e+8	0.17934489

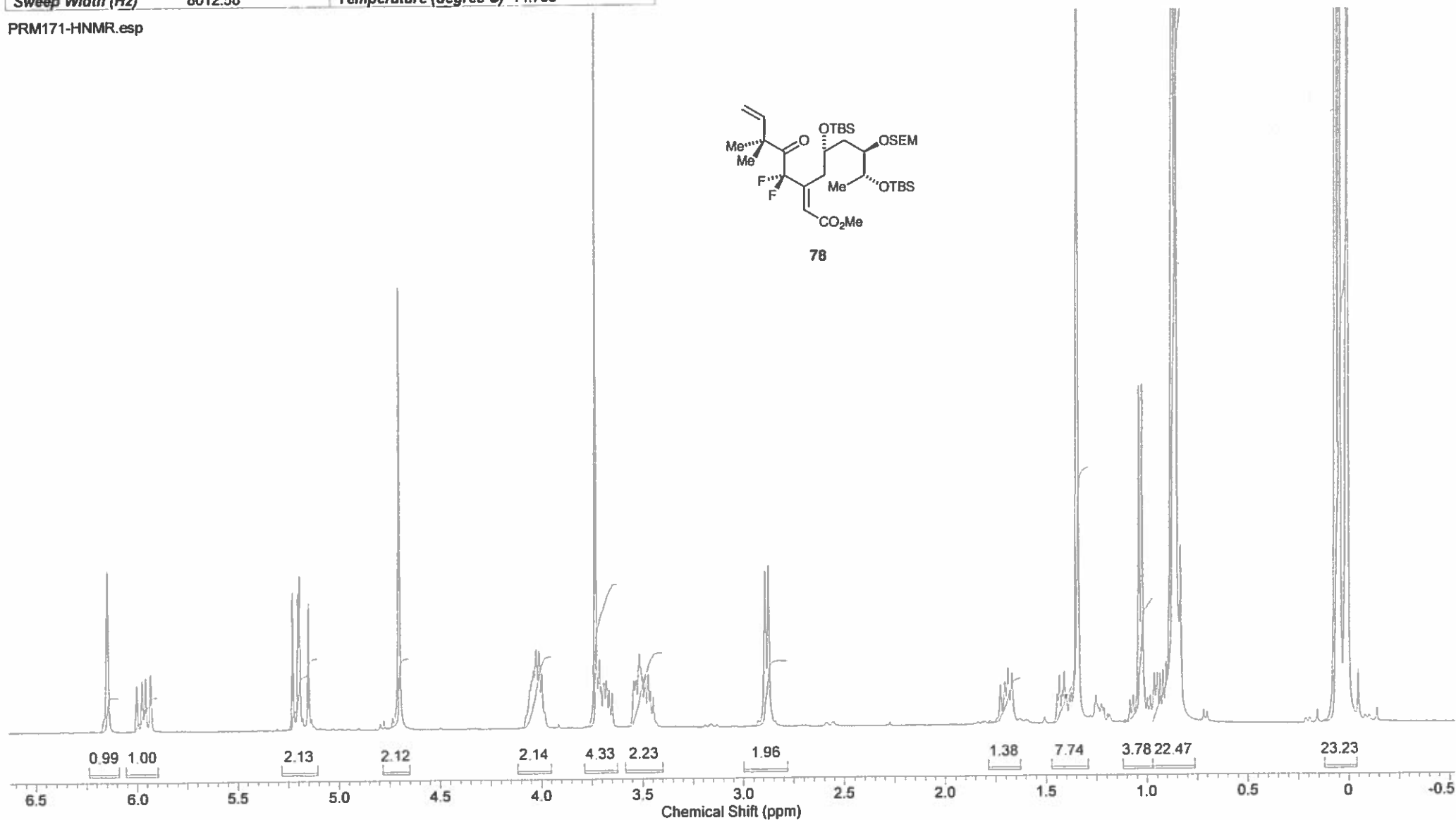
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	4.0894	Comment	EJT-PRM171 f3-9 50mg mPROTON A CDCl3 (e:\bruk400cdata\2015\Feb) ejt 6		
Date	04 Feb 2015 16:06:24	Date Stamp	04 Feb 2015 16:06:24		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015\Feb\data\ejt\nmr\2015-02-04-ejt-6\10\fid			Frequency (MHz)	400.07
Nucleus	1H	Number of Transients	4	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30
SW(cyclical) (Hz)	8012.82	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	1894.0684
Sweep Width (Hz)	8012.58	Temperature (degree C)	14.793	Spectrum Type	STANDARD

PRM171-HNMR.esp



78



0215-106

Mears P.

EJT-PRM 171 f3-9

50 mg

mCARBON CDCl3 (E:\bruk500edata\2015\Feb) staff-22



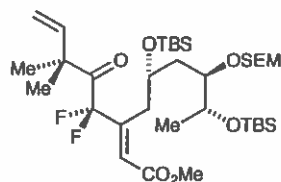
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NAME 2015-02-04-staff-22  
EXPNO 11  
PROCNO 1

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Date\_ 20150205  
Time\_ 0.34  
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PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 2048  
DS 4  
SWH 29761.904 Hz  
FIDRES 0.454131 Hz  
AQ 1.1010048 sec  
RG 184.4  
DW 16.800 usec  
DE 102.82 usec  
TE 295.2 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

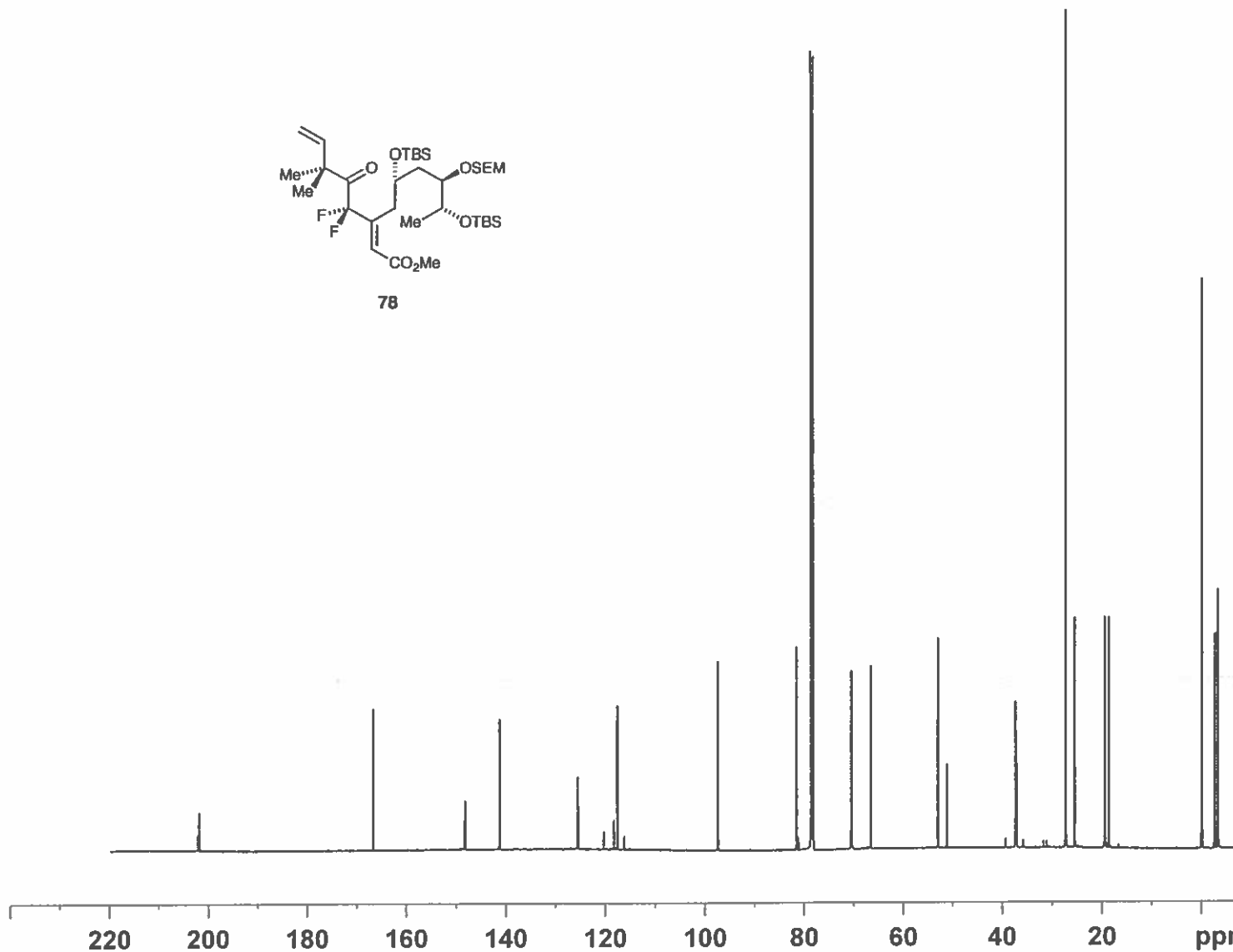
===== CHANNEL f1 =====  
SFO1 125.7854504 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 53.59999847 W

===== CHANNEL f2 =====  
SFO2 500.1920008 MHz  
NUC2 1H  
CPDPRG[2] waltz16  
PCPD2 80.00 usec  
PLW2 16.00000000 W  
PLW12 0.28622001 W  
PLW13 0.18318000 W

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SF 125.7726934 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



78



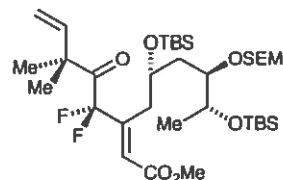


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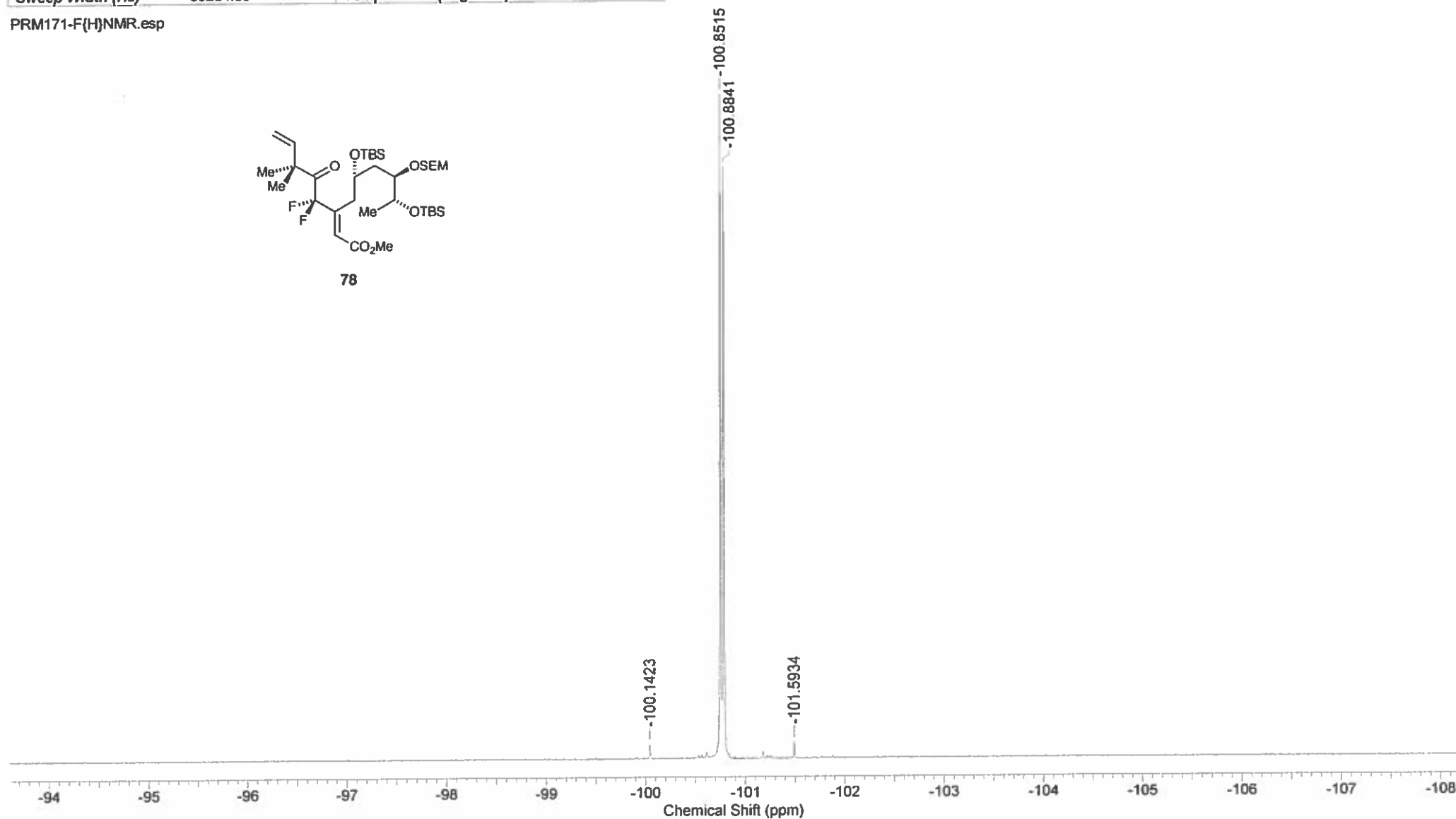
This report was created by ACD/NAME Processor Academic Edition. For more information go to [www.acdlabs.com/nmrprod](http://www.acdlabs.com/nmrprod)

Acquisition Time (sec)	0.7340	Comment	EJT-PRM171 f4-18 57mg mF19CPD CDCl3 (e:\bruk400adata\2015\Feb) ejt 55				
Date	02 Feb 2015 12:45:52	Date Stamp	02 Feb 2015 12:45:52				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015\Feb\data\ejt\nmr\2015-02-02-ejt-55\13\fid					Frequency (MHz)	376.50
Nucleus	19F	Number of Transients	16	Origin	AV400	Original Points Count	65536
Owner	nmrsu	Points Count	65536	Pulse Sequence	zgig	Receiver Gain	203.00
SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37649.5977	Spectrum Type	STANDARD
Sweep Width (Hz)	89284.35	Temperature (degree C)	23.000				

PRM171-F(1H)NMR.esp



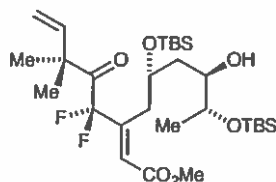
78



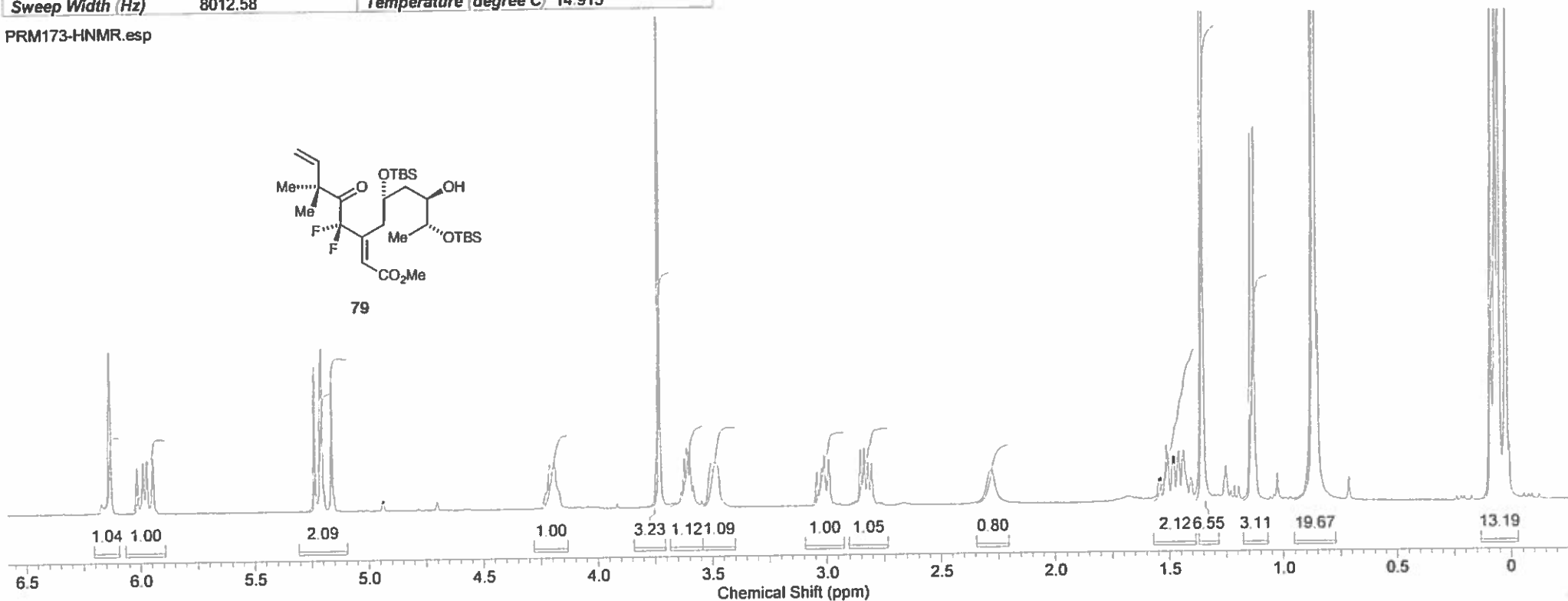
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	4.0894	Comment	EJT-PRM173 f6-22 29mg mPROTON A CDCl3 (e:\bruk400cdata\2015\Feb) ejt 14		
Date	12 Feb 2015 16:00:00	Date Stamp	12 Feb 2015 16:00:00		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015\Feb\data\ejt\173\173-14\173-14.fid			Frequency (MHz)	400.07
Nucleus	<sup>1</sup> H	Number of Transients	16	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30
SW(cyclical) (Hz)	8012.82	Solvent	CHLOROFORM-d	Receiver Gain	32.00
Sweep Width (Hz)	8012.58	Temperature (degree C)	14.915	Spectrum Offset (Hz)	1893.8241
				Spectrum Type	STANDARD

PRM173-HNMR.esp



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No.	(ppm)	Value	Absolute Value	Non-Negative Value	No.	(ppm)	Value	Absolute Value	Non-Negative Value
1	0300 .. 0.13	3.19273376	2.20347003e+10	13.19273376	9	4009 .. 3.54	1.08516133	1.81245261e+9	1.08516133
2	7731 .. 0.95	9.67392731	3.28596849e+10	19.67392731	10	5430 .. 3.68	1.11831653	1.86782886e+9	1.11831653
3	0681 .. 1.17	3.11152554	5.19691622e+9	3.11152554	11	3850 .. 3.82	3.23063946	5.39586202e+9	3.23063946
4	2976 .. 1.38	6.54978418	1.09395466e+10	6.54978418	12	1330 .. 4.28	0.99953032	1.66943040e+9	0.99953032
5	3850 .. 1.57	2.12479234	3.54885965e+9	2.12479234	13	0945 .. 5.30	2.08711100	3.48592358e+9	2.08711100
6	2045 .. 2.34	0.80205345	1.33960154e+9	0.80205345	14	3922 .. 6.06	0.99999589	1.67020800e+9	0.99999589
7	7344 .. 2.90	1.04649985	1.74787955e+9	1.04649985	15	0943 .. 6.20	1.03641319	1.73103270e+9	1.03641319
8	3256 .. 3.09	0.99720508	1.66554675e+9	0.99720508					

EJT-PRM173 f6-22 29mg  
mCARBON CDCl3 {E:\bruk500cdata\2015\Feb) staff 57



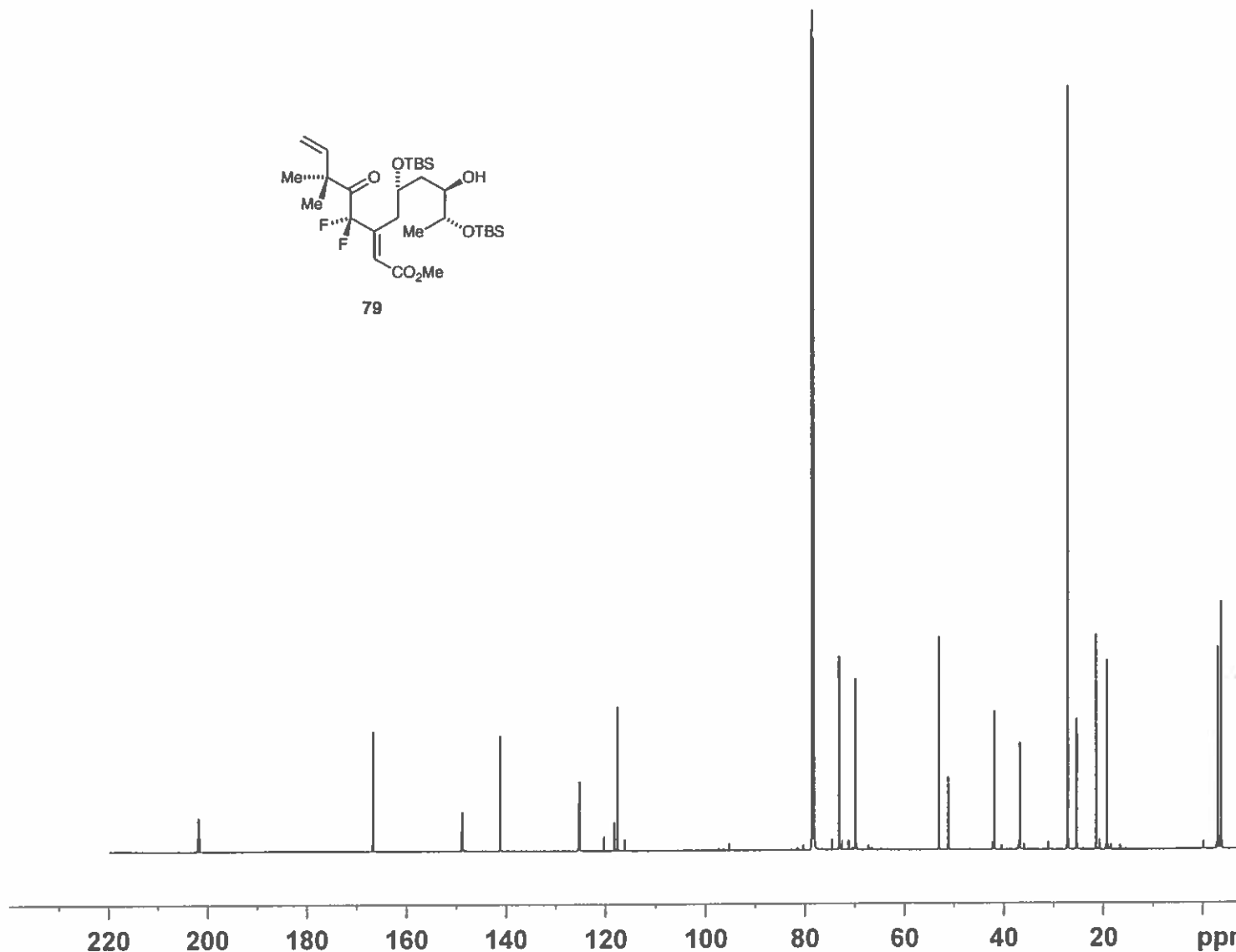
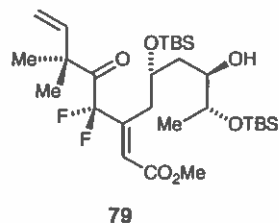
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NAME 2015-02-13-staff-57  
EXPNO 11  
PROCNO 1

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Date 20150214  
Time 17.32  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 30000  
DS 4  
SWH 29761.904 Hz  
FIDRES 0.454131 Hz  
AQ 1.1010048 sec  
RG 184.4  
DW 16.800 usec  
DE 102.82 usec  
TE 295.2 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
SFO1 125.7854504 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 53.59999847 W

===== CHANNEL f2 =====  
SFO2 500.1920008 MHz  
NUC2 1H  
CPDPRG[2] waltz16  
PCPD2 80.00 usec  
PLW2 16.00000000 W  
PLW12 0.28622001 W  
PLW13 0.18318000 W

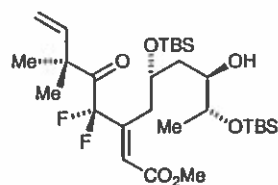
F2 - Processing parameters  
SI 32768  
SF 125.7726936 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



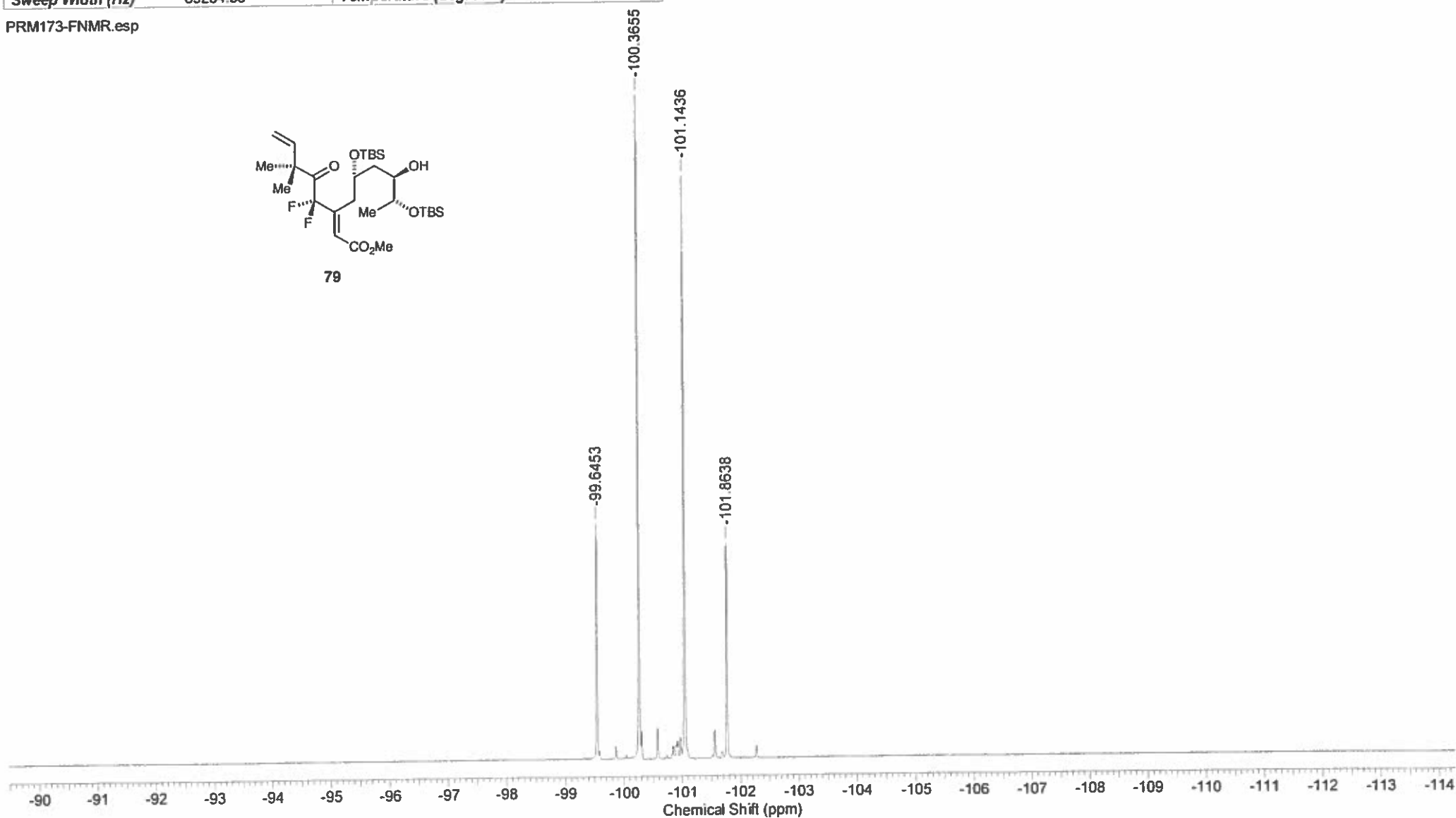
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

This report was created by ACD/NMR Processor Academic Edition. For more information go to <a href="http://www.accdatabase.com/nmr/processor/">www.accdatabase.com/nmr/processor/</a>									
Acquisition Time (sec)	0.7340	Comment	EJT-PRM173 f6-22 29mg mF19_cryo_zgbs CDCI3 (e:\bruk400cdata\2015\Feb) ejt 14						
Date	12 Feb 2015 16:02:08	Date Stamp	12 Feb 2015 16:02:08						
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015\Feb\data\ejt\nmr\2015-02-12-ejt-14\11\fid		Frequency (MHz)	376.44					
Nucleus	19F	Number of Transients	16	Origin	spect	Original Points Count	65536		
Owner	nmrsu	Points Count	65536	Pulse Sequence	zgbs	Receiver Gain	7.12		
SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37644.8594	Spectrum Type	STANDARD		
Sweep Width (Hz)	89284.35	Temperature (degree C)	14.924						

PRM173-FNMR.esp



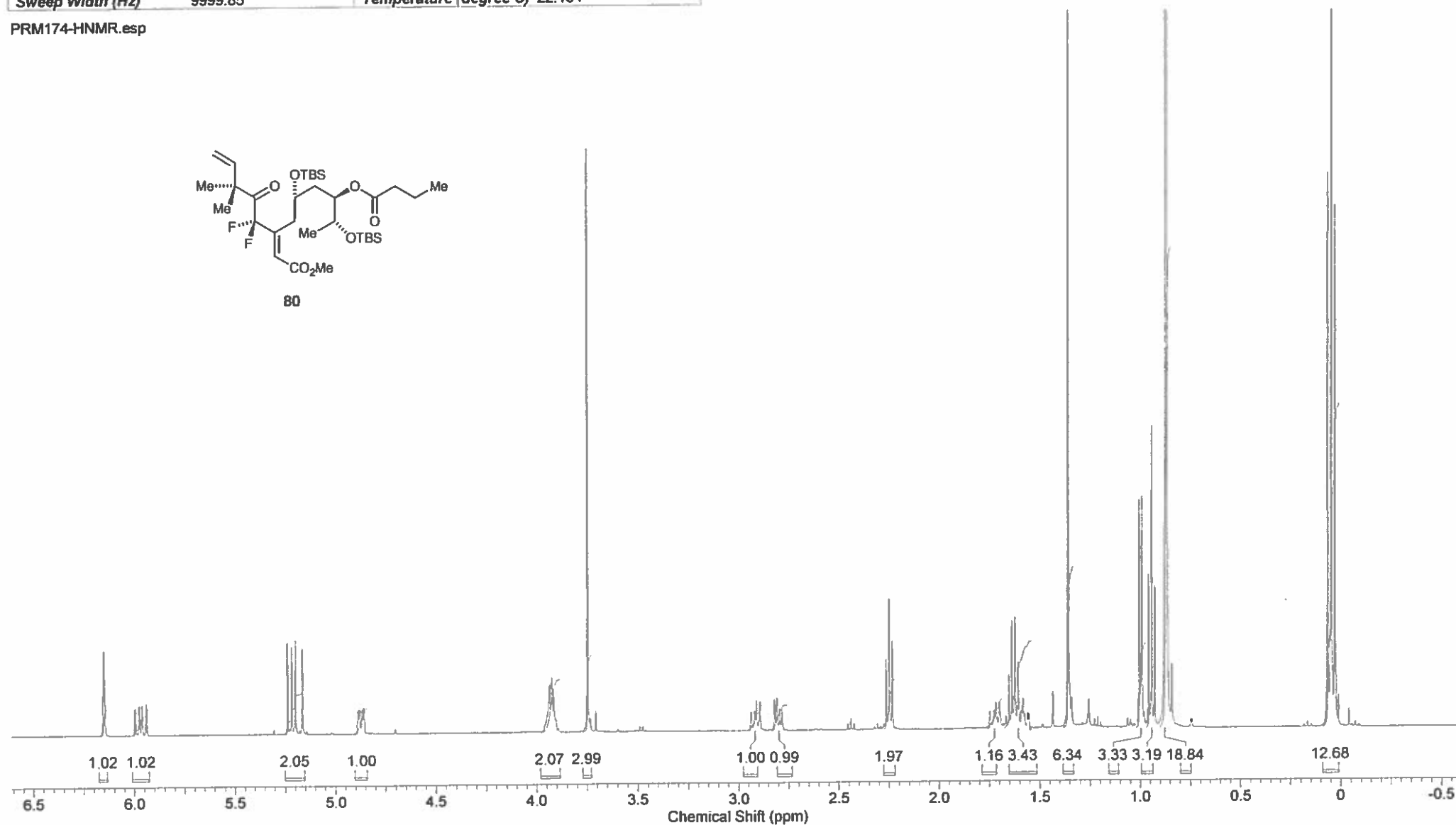
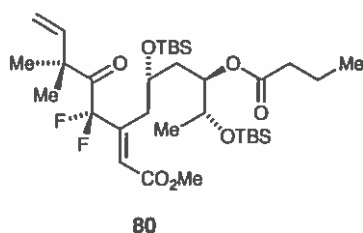
79



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Acquisition Time (sec)	3.2768	Comment	0215 121 Mears P EJT-PRM174 F5-15 26 mg in CDCl3 mPROTON CDCl3 (E:\bruk500cdata\2015\Feb) staff 39		
Date	24 Feb 2015 02:14:24	Date Stamp	24 Feb 2015 02:14:24		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015\Feb\data\staff\nmr\2015-02-23-staff-39\10\PDATA\1\1r			Frequency (MHz)	500.19
Nucleus	1H	Number of Transients	16	Origin	spect
Owner	nmrsu	Points Count	65536	Pulse Sequence	zg30
SW(cyclical) (Hz)	10000.00	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	3081.8008
Sweep Width (Hz)	9999.85	Temperature (degree C)	22.154	Receiver Gain	30.53
				Spectrum Type	STANDARD

PRM174-HNMR.esp



0215 121

Mears P

EJT-PRM174 F5-15

26 mg in CDCl<sub>3</sub>

mCARBON CDCl<sub>3</sub> (E:\bruk500edata\2015\Feb\staff-39



Current Data Parameters

NAME 2015-02-23-staff-39  
EXPNO 11  
PROCNO 1

F2 - Acquisition Parameters

Date 20150224  
Time 10.14  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl<sub>3</sub>  
NS 9223  
DS 4  
SWH 29761.904 Hz  
FIDRES 0.454131 Hz  
AQ 1.1010048 sec  
RG 184.4  
DW 16.800 usec  
DE 102.82 usec  
TE 295.2 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====

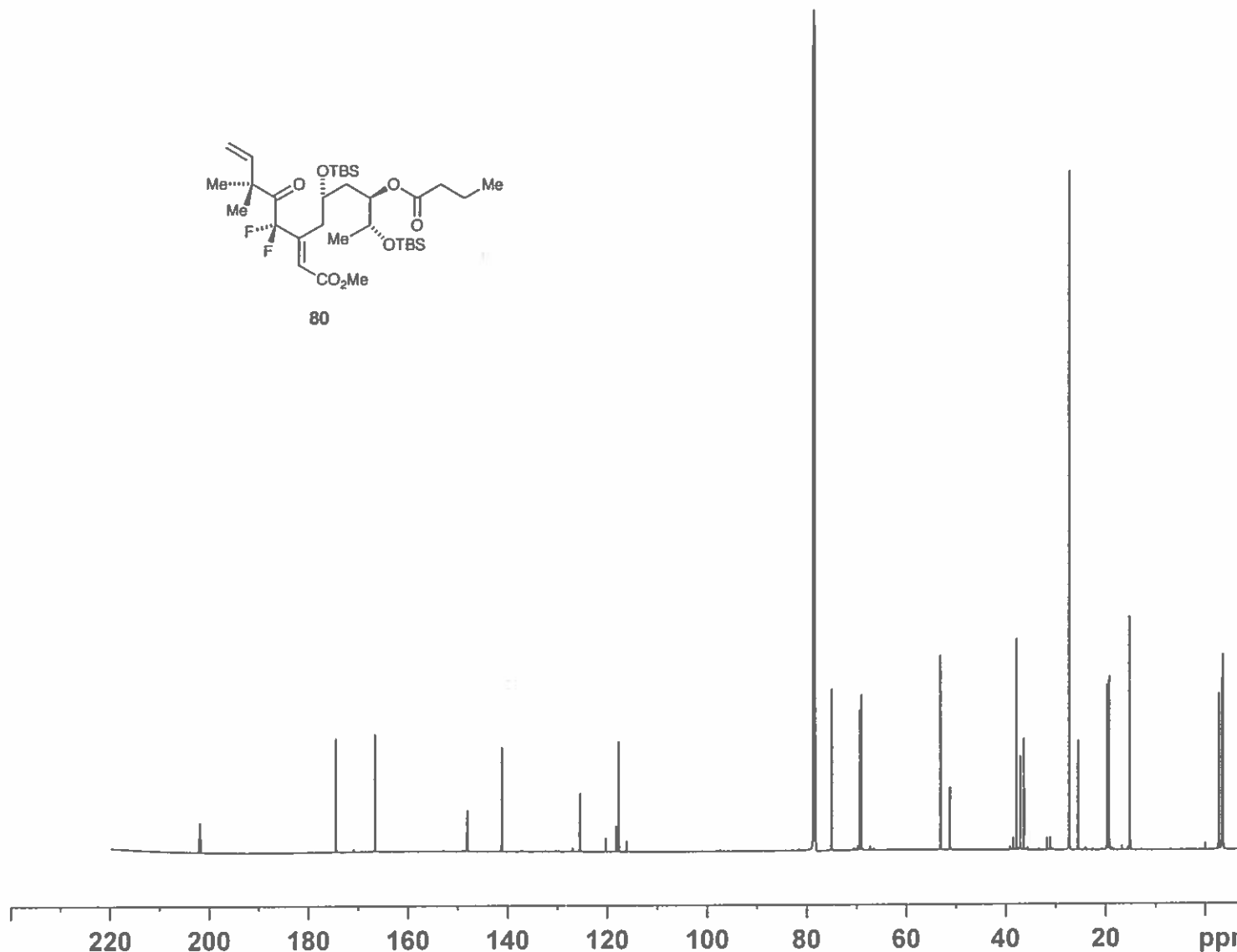
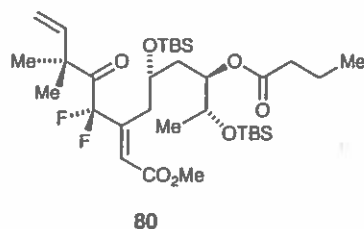
SFO1 125.7854504 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 53.59999847 W

===== CHANNEL f2 =====

SFO2 500.1920008 MHz  
NUC2 1H  
CPDPRG2 waltz16  
PCPD2 80.00 usec  
PLW2 16.00000000 W  
PLW12 0.28622001 W  
PLW13 0.18318000 W

F2 - Processing parameters

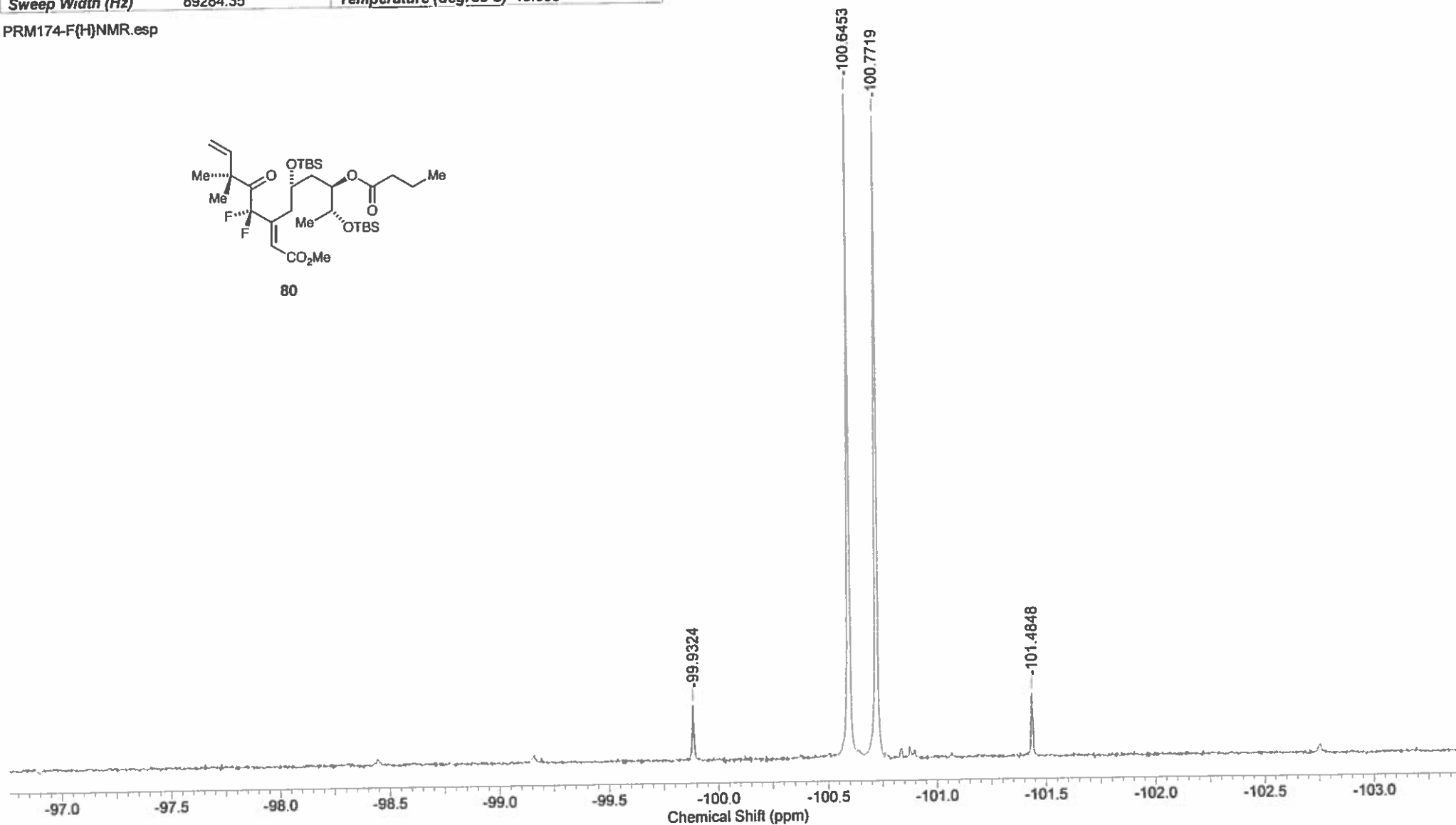
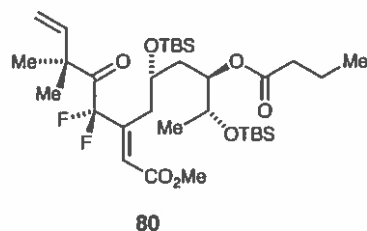
SI 32768  
SF 125.7726933 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



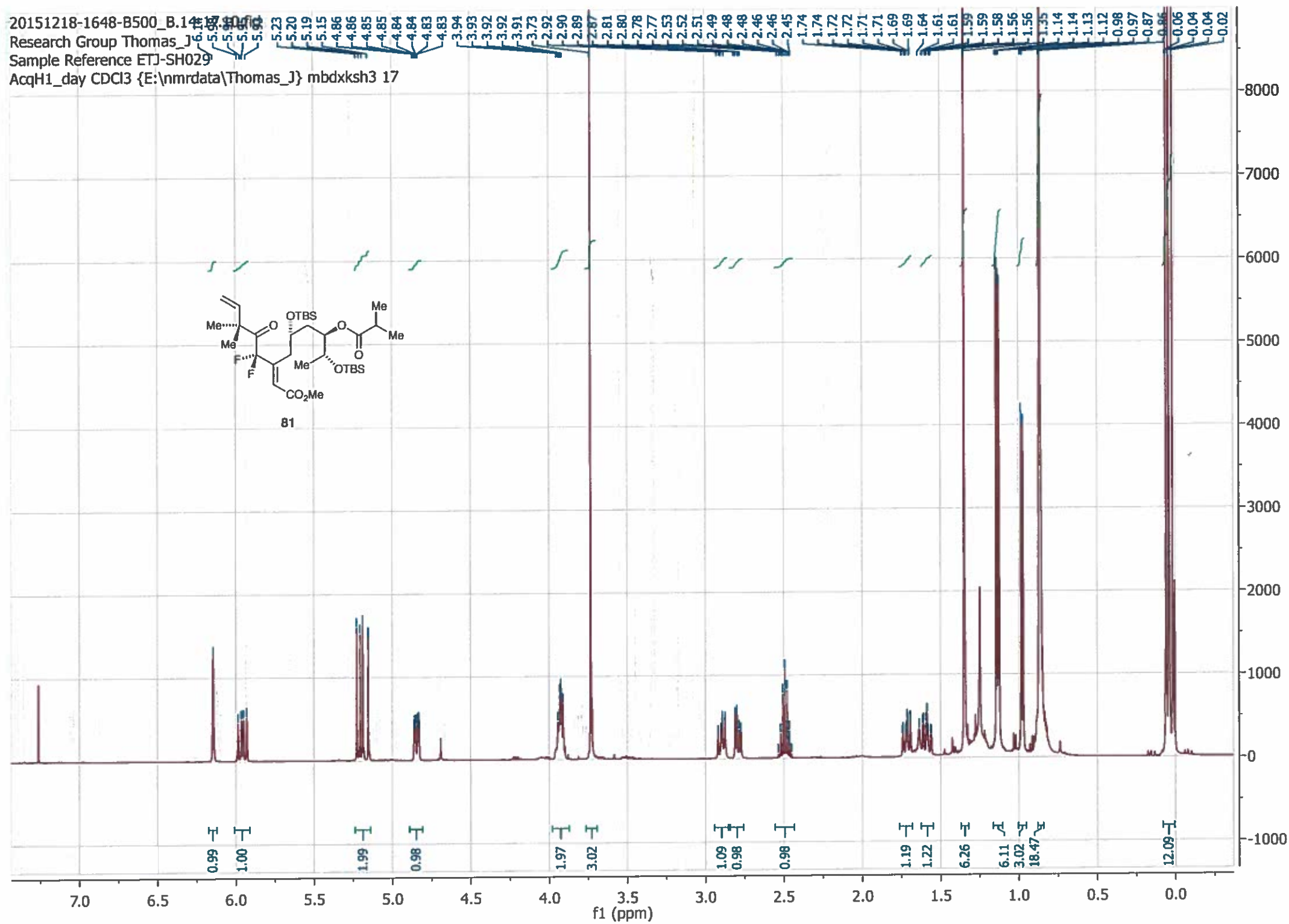
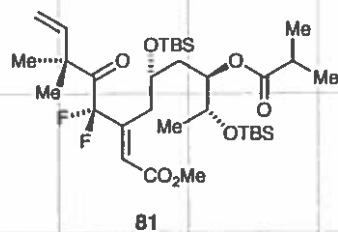
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	0.7340	Comment	EJT-PRM174 f5-15 26mg mF19CPD CDCl3 (e:\bruk400adata\2015\Feb) ejt 58		
Date	23 Feb 2015 15:30:08	Date Stamp	23 Feb 2015 15:30:08		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015\Feb\data\ejt\nmr\2015-02-23-ejt-58\12\fid			Frequency (MHz)	376.50
Nucleus	19F	Number of Transients	16	Origin	AV400
Owner	nmrsu	Points Count	65536	Pulse Sequence	zgpg
SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37649.5977
Sweep Width (Hz)	89284.35	Temperature (degree C)	19.900	Receiver Gain	203.00
				Spectrum Type	STANDARD

PRM174-F{H}NMR.esp



20151218-1648-B500\_B.14#17-001  
 Research Group Thomas\_J  
 Sample Reference ETJ-SH029  
 AcqH1\_day CDCl3 {E:\nmrdata\Thomas\_J} mbdxksh3 17



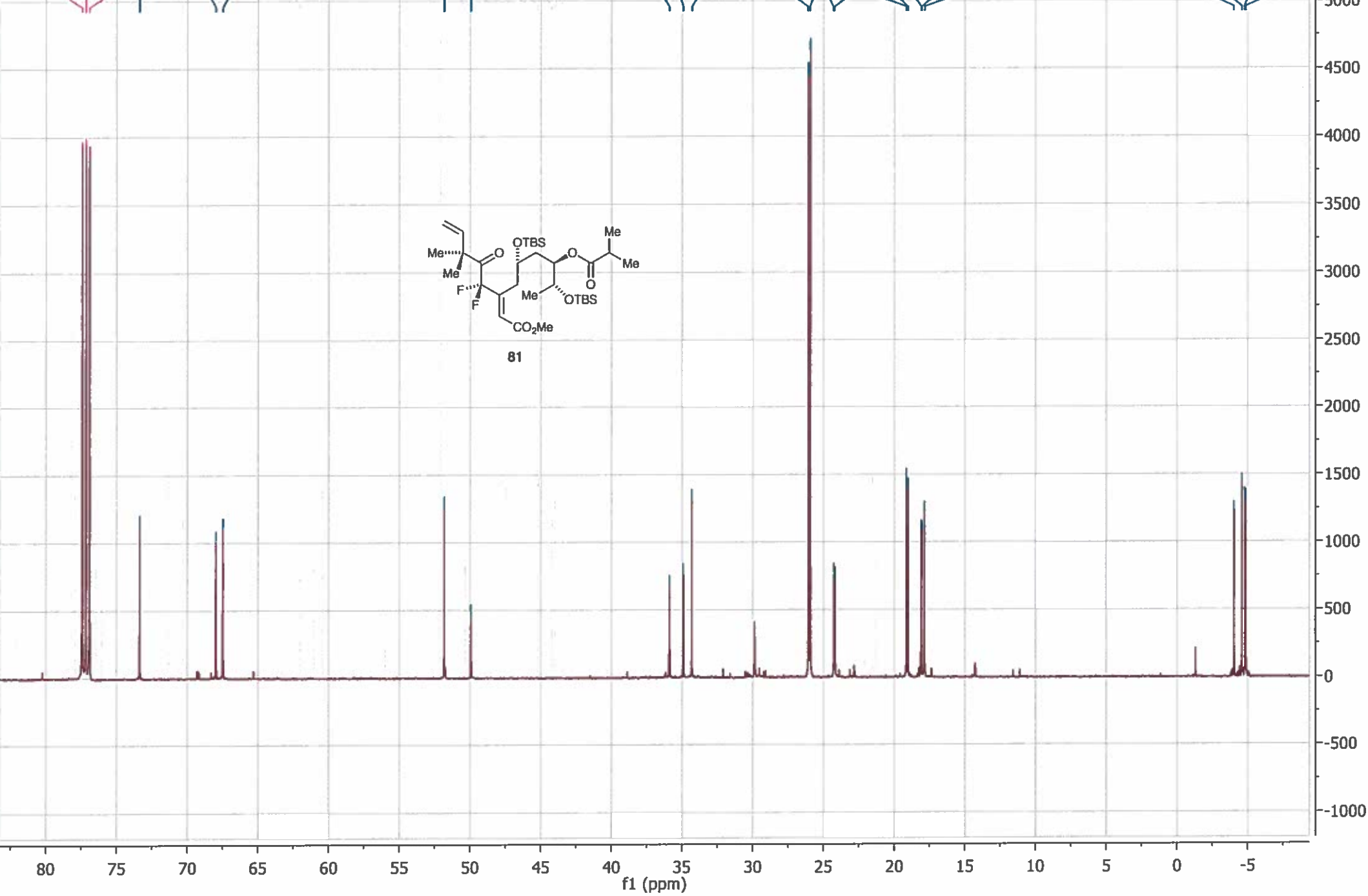


20151218-1648-B500\_B.14-17.13.fid

Research Group Thomas\_J

Sample Reference: TJ-SH028

AcqC13{1H} High CDCl3 {Bd}mrdata\Thomas\_J} mbdxksh317

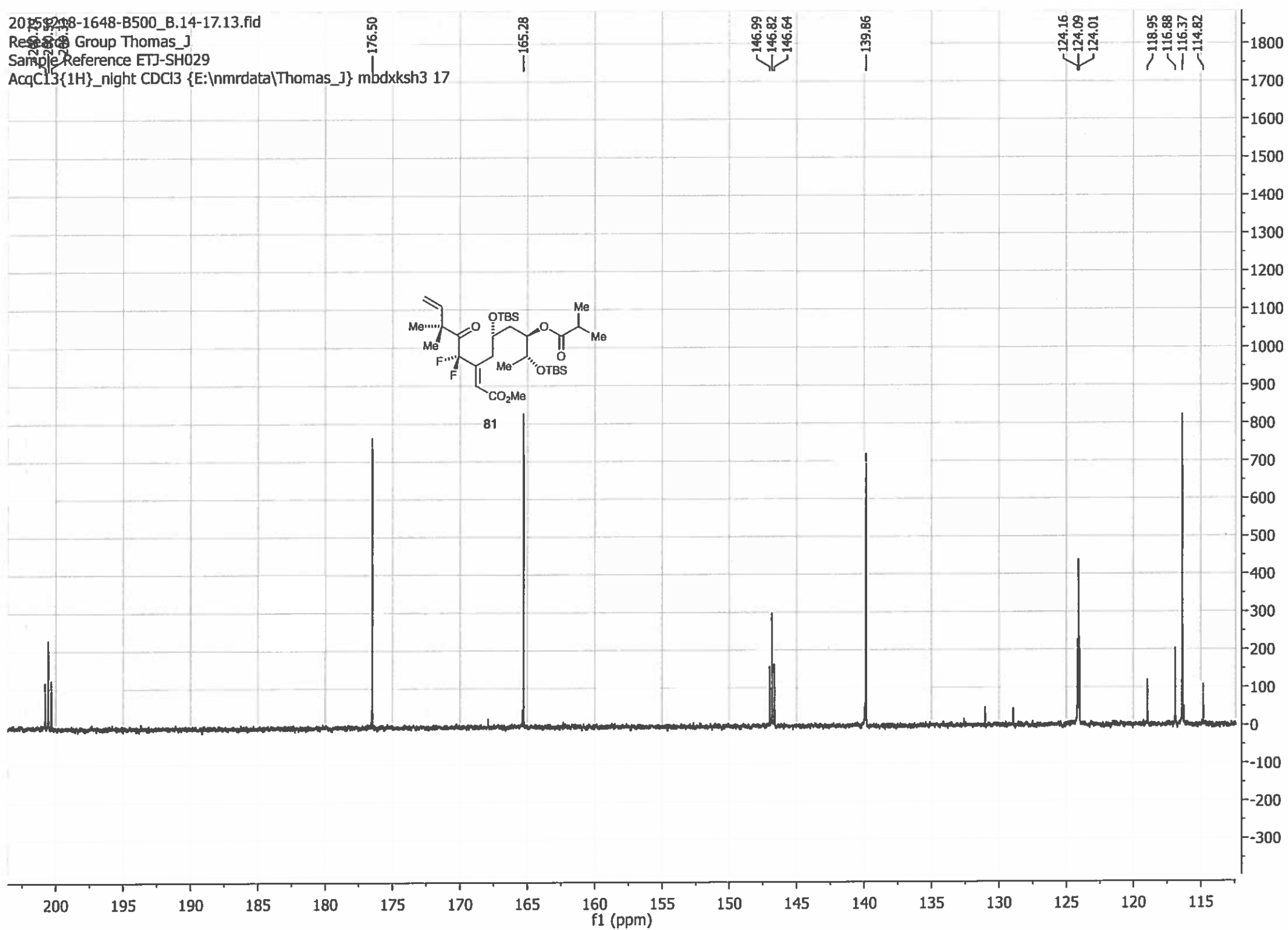


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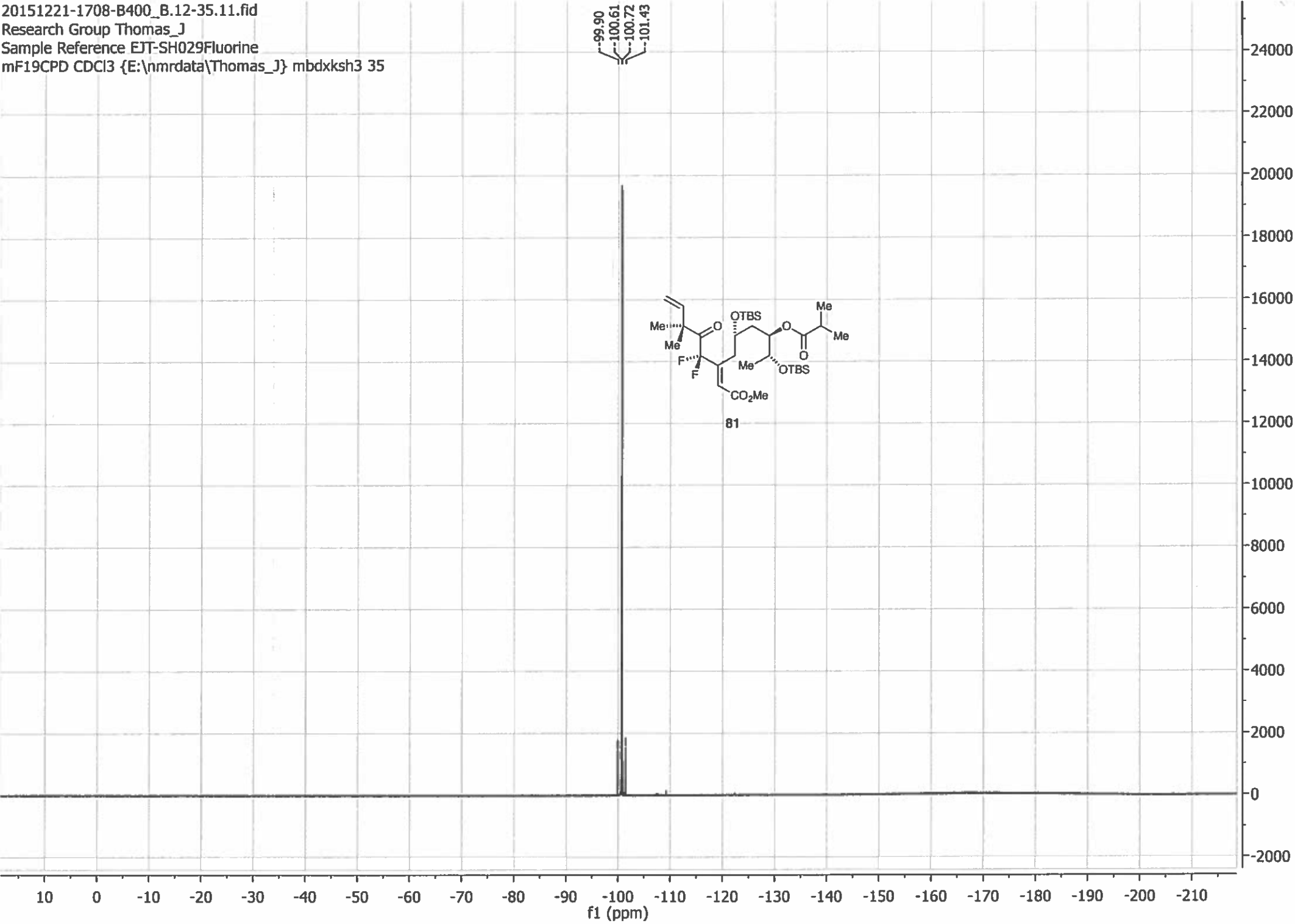
Res. Grp Thomas\_J

Sample Reference ETJ-SH029

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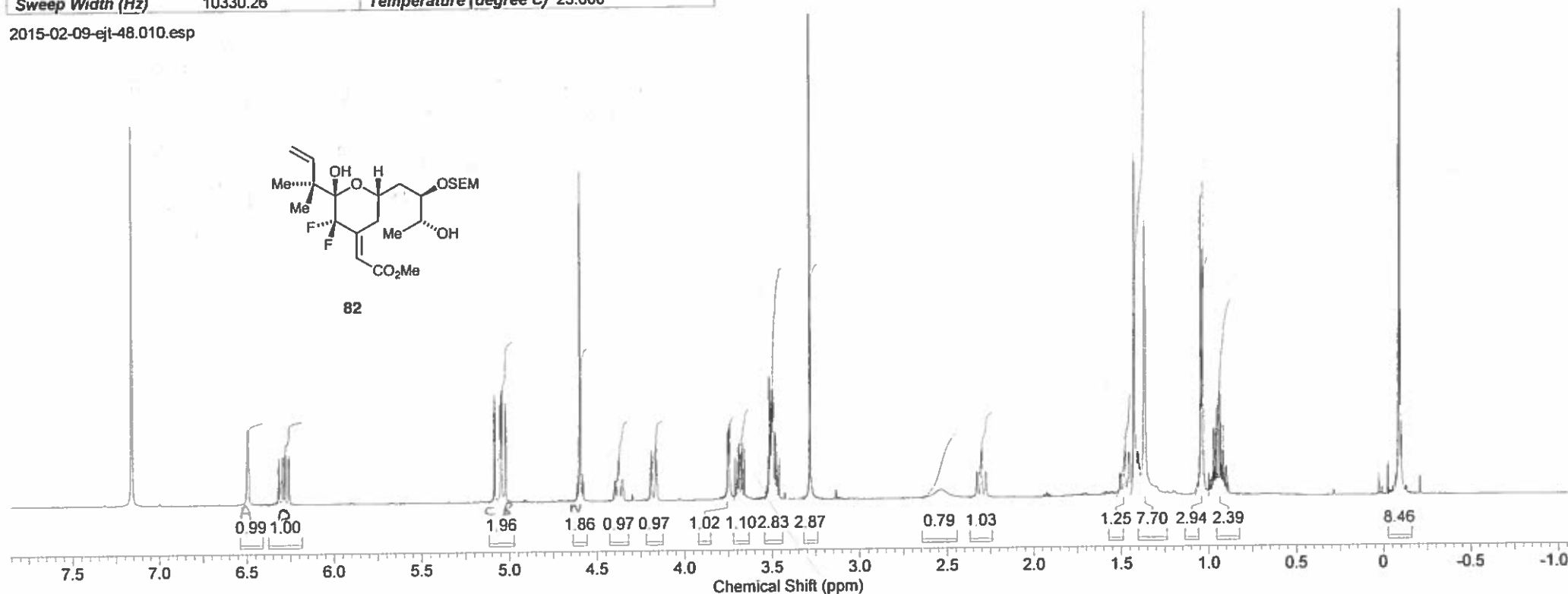
20151221-1708-B400\_B.12-35.11.fid  
Research Group Thomas\_J  
Sample Reference EJT-SH029Fluorine  
mF19CPD CDCl3 {E:\nmrdata\Thomas\_J} mbdxksh3 35



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This report was created by ACD/NMR Processor Academic Edition. For more information go to <a href="http://www.accdatabases.com/nmr/proc/">www.accdatabases.com/nmr/proc/</a>							
Acquisition Time (sec)	3.1719	Comment	EJT-PRM172 bis-TBS deprot. 24mg mPROTON C6D6 (E:\bruk500adata\2015\Feb) ejt 48				
Date	09 Feb 2015 14:24:00	Date Stamp	09 Feb 2015 14:24:00				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500adata\2015\Feb\data\ejt\nmr\2015-02-09-ejt-48\10vid			Frequency (MHz)	500.13		
Nucleus	1H	Number of Transients	16	Origin	spect	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30	Receiver Gain	90.50
SW(cyclical) (Hz)	10330.58	Solvent	BENZENE-d6	Spectrum Offset (Hz)	3093.0591	Spectrum Type	STANDARD
Sweep Width (Hz)	10330.26	Temperature (degree C)	25.000				

2015-02-09-ejt-48.010.esp



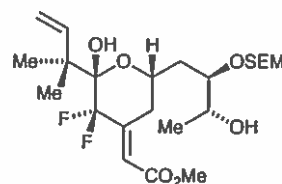
No.	(ppm)	Value	Absolute Value	Non-Negative Value
1	1599 .. -0.023	4.5782185	2.23010775e+10	8.45782185
2	5718 .. 1.002	3.9459229	6.31391744e+9	2.39459229
3	5027 .. 1.082	9.4357920	7.76145357e+9	2.94357920
4	2804 .. 1.447	7.0429850	2.03142328e+10	7.70429850
5	4463 .. 1.521	1.24665987	3.28711808e+9	1.24665987
6	2401 .. 2.361	1.03409398	2.72663706e+9	1.03409398
7	4444 .. 2.640	0.78715116	2.07551309e+9	0.78715116
8	2388 .. 3.312	0.86838222	7.56317850e+9	2.86838222
9	4414 .. 3.542	0.82843184	7.45783962e+9	2.82843184

No.	(ppm)	Value	Absolute Value	Non-Negative Value
10	5335 .. 3.721	1.10219407	2.90619930e+9	1.10219407
11	7208 .. 3.791	0.1866615	2.68595789e+9	1.01866615
12	1260 .. 4.220	0.96806675	2.55254042e+9	0.96806675
13	3233 .. 4.420	0.97044659	2.55881549e+9	0.97044659
14	5590 .. 4.631	1.86019683	4.90485555e+9	1.86019683
15	9744 .. 5.111	1.95728326	5.16084736e+9	1.95728326
16	1829 .. 6.370	0.99992341	2.63653811e+9	0.99992341
17	4099 .. 6.540	0.99473357	2.62285389e+9	0.99473357

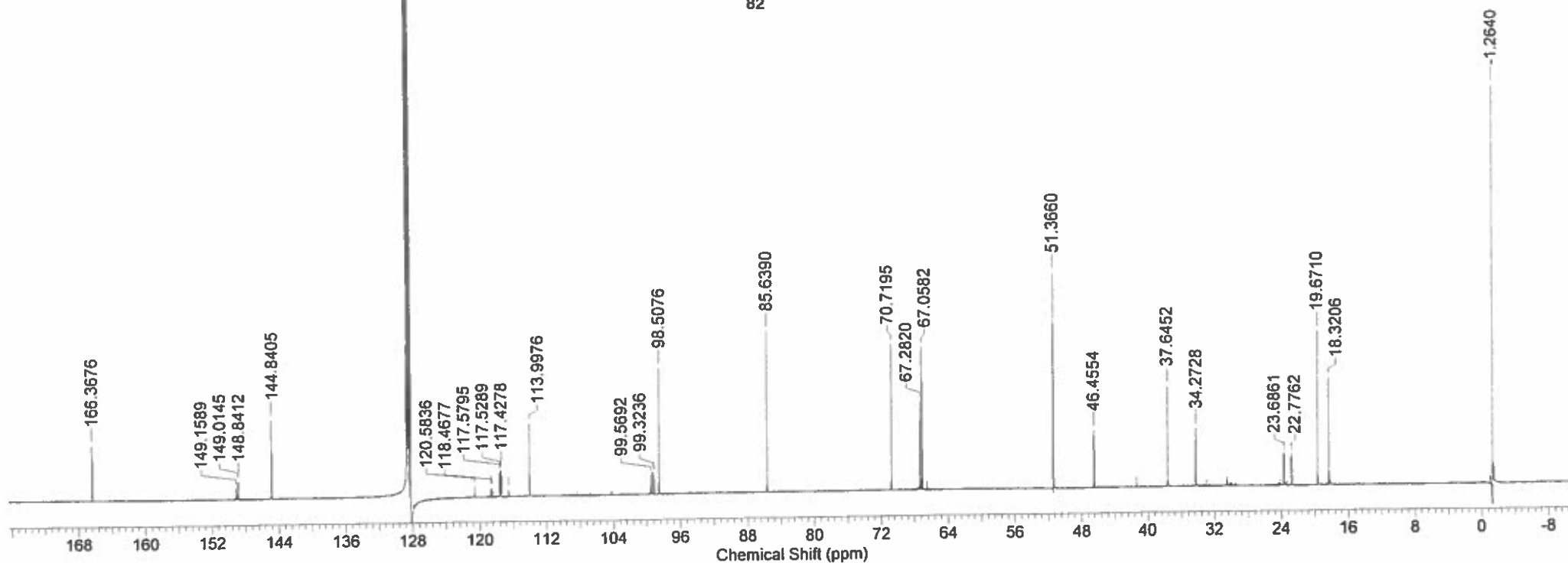
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010	Comment	P.Mears EJ1-PRM172 bis-TBS deprot mCARBON C6D6 (E:\bruk500cdata\2015\Feb) staff 26		
Date	10 Feb 2015 01:44:32	Date Stamp	10 Feb 2015 01:44:32		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015\Feb\data\staff\nmr\2015-02-09-staff-26\21\fid			Frequency (MHz)	125.77
Nucleus	13C	Number of Transients	10000	Origin	spect
Owner	nmsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Spectrum Offset (Hz)	12661.5830
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.161	Receiver Gain	184.40
				Spectrum Type	STANDARD

PRM172-columnedX3-CNMR-C6D6.esp



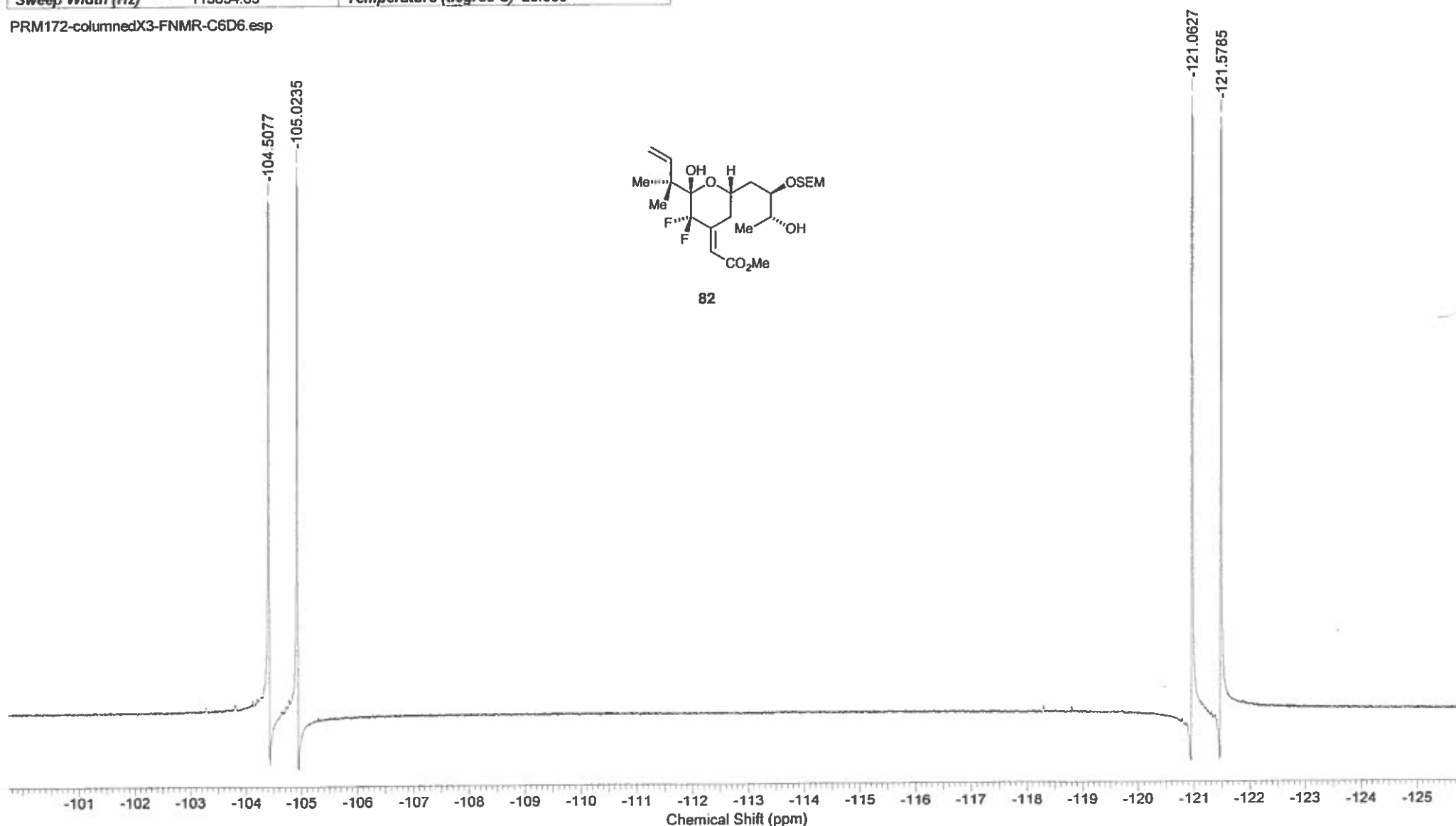
82



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This report was created by ACD/NMR Processor Academic Edition. For more information go to <a href="http://www.acdsol.com/nmr/proc/">www.acdsol.com/nmr/proc/</a>							
Acquisition Time (sec)	0.5767	Comment		EJT-PRM172 bis-TBS deprot. 24mg m19F C6D6 (E:\bruk500adata\2015\Feb) ejt 48			
Date	09 Feb 2015 14:34:40			Date Stamp	09 Feb 2015 14:34:40		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500adata\2015\Feb\data\ejt\172\172-09-ejt-48\12\fid				Frequency (MHz)	470.59	
Nucleus	19F	Number of Transients	16	Origin	spect	Original Points Count	65536
Owner	nmrsu	Points Count	65536	Pulse Sequence	zgfgqn	Receiver Gain	406.00
SW(cyclical) (Hz)	113636.37	Solvent	BENZENE-d6	Spectrum Offset (Hz)	-47059.0234	Spectrum Type	STANDARD
Sweep Width (Hz)	113634.63	Temperature (degree C)	25.000				

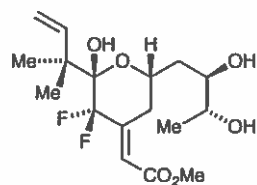
PRM172-columnedX3-FNMR-C6D6.esp



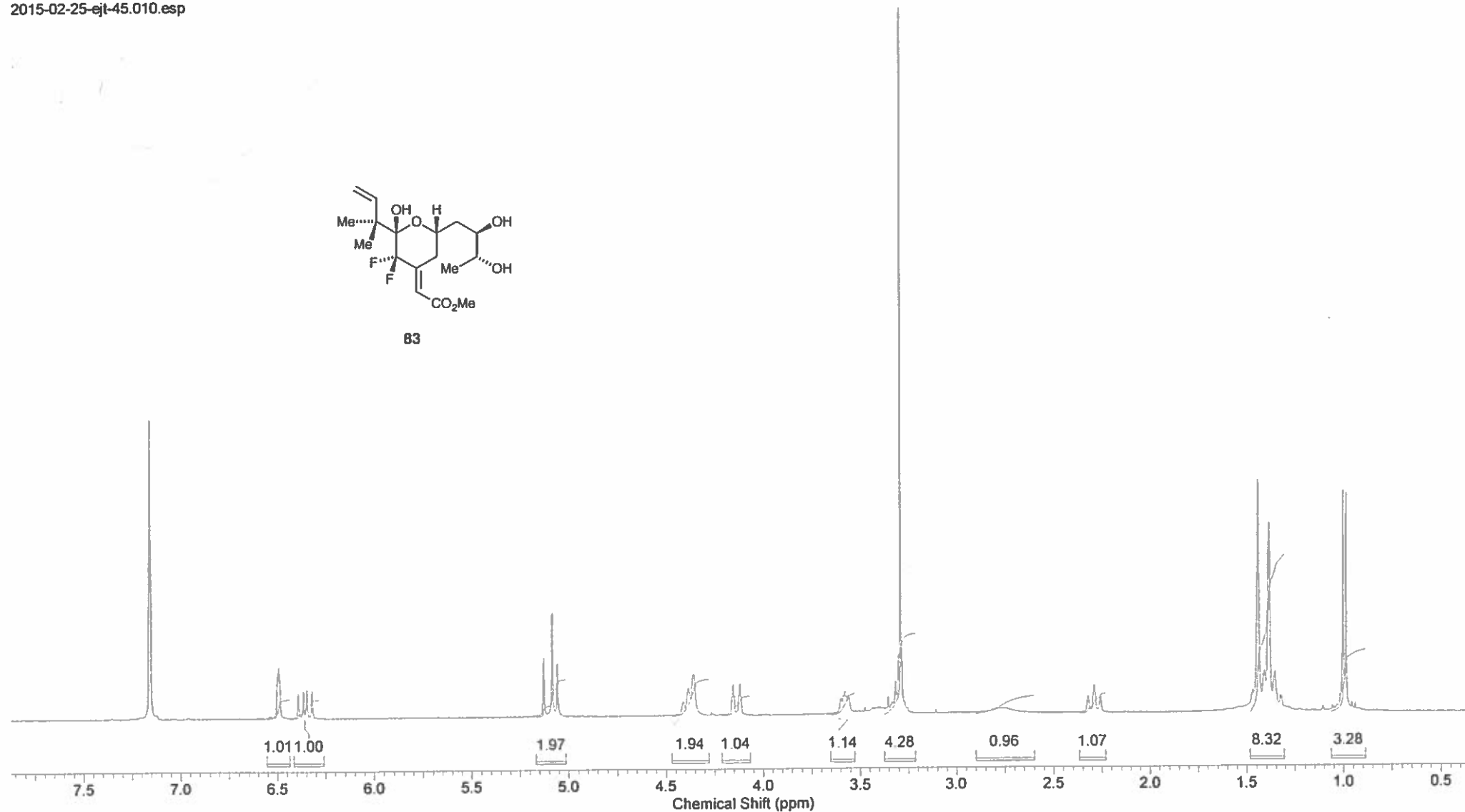
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

This report was created by ACD/NMR Processor Academic Edition. For more information go to <a href="http://www.acdlabs.com/nmr/proc/">www.acdlabs.com/nmr/proc/</a>							
Acquisition Time (sec)	3.9649	Comment	EJT-PRM175 f6-28 11mg mPROTON C6D6 (e:\bruk400adata\2015\Feb) ejt 45				
Date	25 Feb 2015 18:31:28	Date Stamp	25 Feb 2015 18:31:28				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015\Feb\data\ejt\nmr\2015-02-25-ejt-45\10fid			Frequency (MHz)	400.13		
Nucleus	1H	Number of Transients	16	Origin	AV400	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30b	Receiver Gain	128.00
SW(cyclical) (Hz)	8264.46	Solvent	BENZENE-d6	Spectrum Offset (Hz)	2473.8770	Spectrum Type	STANDARD
Sweep Width (Hz)	8264.21	Temperature (degree C)	19.800				

2015-02-25-ejt-45.010.esp



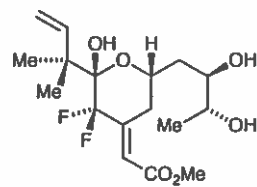
83



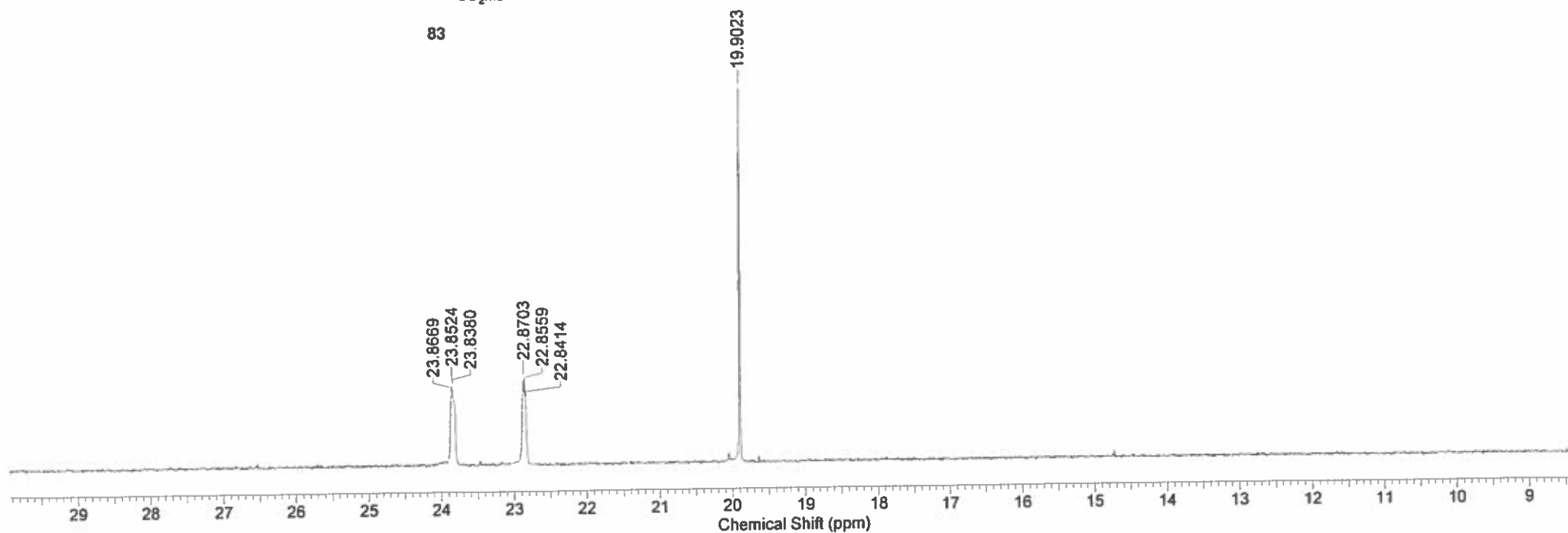
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010						
Comment	Research Group EJT Acad/Staff/PDRA/PG/UG PDRA 0215 129 EJT-PRM175 F6-28 11mg Mears P. mCARBON C6D6 (E:\bruk500cdata\2015\Feb) staff 53						
Date	28 Feb 2015 19:50:24	Date Stamp	28 Feb 2015 19:50:24				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015\Feb\data\staff\nmr\2015-02-27-staff-53\11\fid				Frequency (MHz)	125.77	
Nucleus	13C	Number of Transients	8192	Origin	spect	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	184.40
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Spectrum Offset (Hz)	12660.7109	Spectrum Type	STANDARD
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.153				

PRM175-CNMR.esp



83

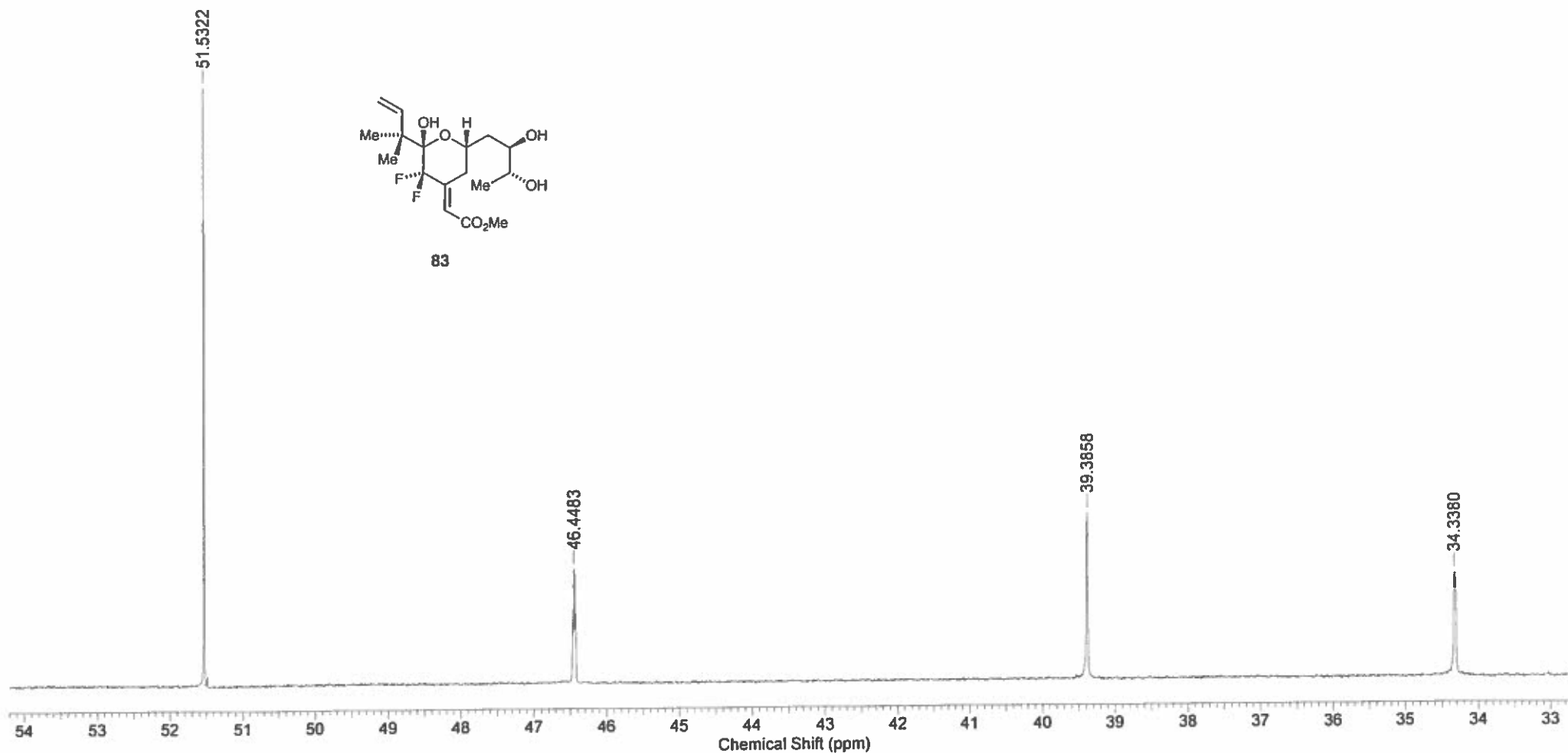




This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010				
Comment	Research Group EJT Acad/Staff/PDRA/PG/UG PDRA 0215 129 EJT-PRM175 F6-28 11mg Mears P. mCARBON C6D6 (E:\bruk500cdata\2015\Feb) staff 53				
Date	28 Feb 2015 19:50:24	Date Stamp	28 Feb 2015 19:50:24		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015\Feb\data\staff\nmr\2015-02-27-staff-53\11\fid			Frequency (MHz)	125.77
Nucleus	13C	Number of Transients	8192	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Spectrum Offset (Hz)	12660.7109
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.153	Receiver Gain	184.40
				Spectrum Type	STANDARD

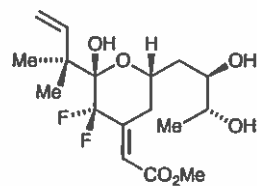
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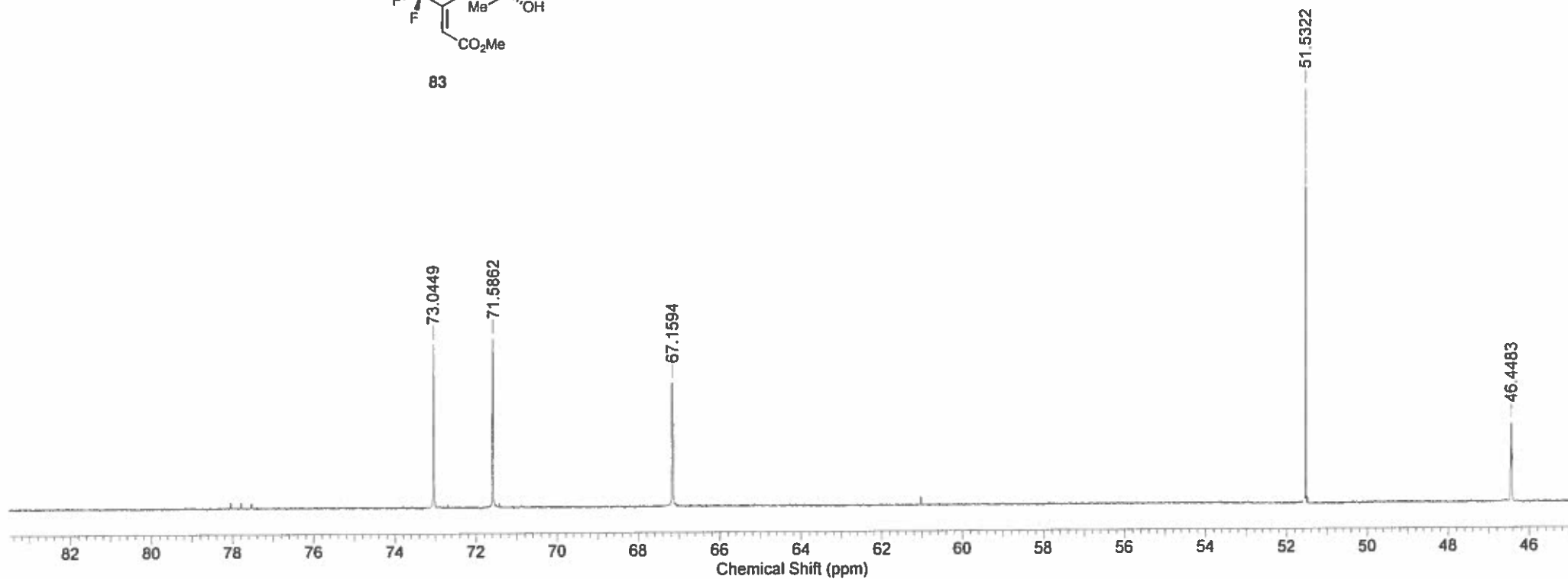
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010				
Comment	Research Group EJT Acad/Staff/PDRA/PG/JG PDRA 0215 129 EJT-PRM175 F6-28 11mg Mears P. mCARBON C6D6 (E:\bruk500cdata\2015\Feb) staff 53				
Date	28 Feb 2015 19:50:24	Date Stamp	28 Feb 2015 19:50:24		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015\Feb\data\staff\nmr\2015-02-27-staff-53\11\fid			Frequency (MHz)	125.77
Nucleus	13C	Number of Transients	8192	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Receiver Gain	184.40
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.153	Spectrum Offset (Hz)	12660.7109
				Spectrum Type	STANDARD

PRM175-CNMR.esp

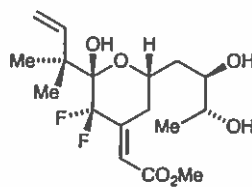


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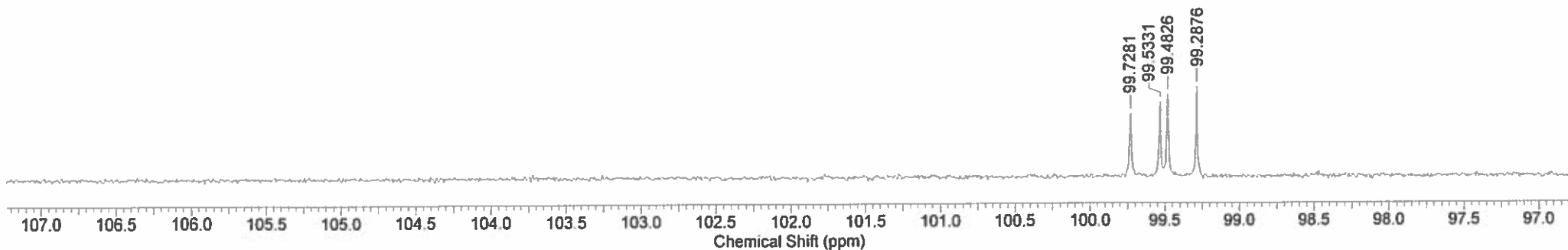


Acquisition Time (sec)	1.1010						
Comment	Research Group EJT Acad/Staff/PDRA/PG/UG PDRA 0215 129 EJT-PRM175 F6-28 11mg Mears P. mCARBON C6D6 (E:\bruk500cdata\2015\Feb) staff 53						
Date	28 Feb 2015 19:50:24	Date Stamp	28 Feb 2015 19:50:24				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015\Feb\data\staff\nmr\2015-02-27-staff-53\11\fid				Frequency (MHz)	125.77	
Nucleus	13C	Number of Transients	8192	Origin	spect	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	184.40
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Spectrum Offset (Hz)	12660.7109	Spectrum Type	STANDARD
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.153				

PRM175-CNMR.esp



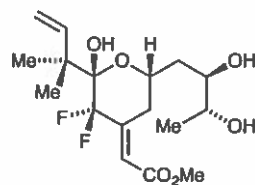
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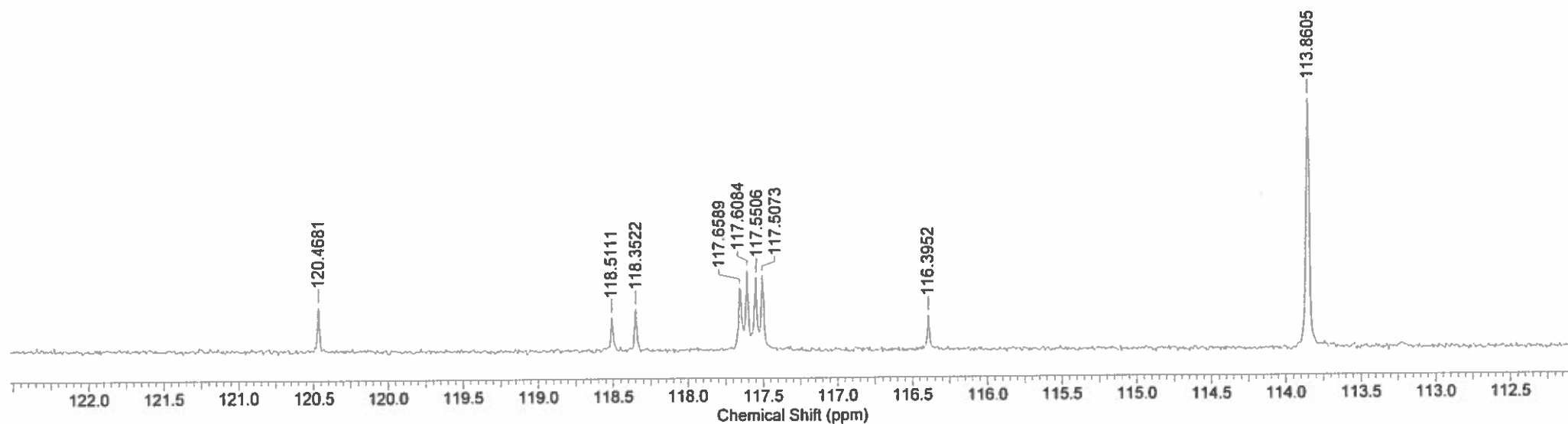
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010						
Comment	Research Group EJT Acad/Staff/PDRA/PG/UG PDRA 0215 129 EJT-PRM175 F6-28 11mg Mears P. mCARBON C6D6 (E:\bruk500cdata\2015\Feb) staff 53						
Date	28 Feb 2015 19:50:24	Date Stamp	28 Feb 2015 19:50:24				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015\Feb\data\staff\nmr\2015-02-27-staff-53\11\fid				Frequency (MHz)	125.77	
Nucleus	13C	Number of Transients	8192	Origin	spect	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	184.40
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Spectrum Offset (Hz)	12660.7109	Spectrum Type	STANDARD
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.153				

PRM175-CNMR.esp

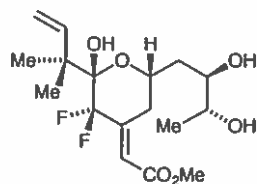


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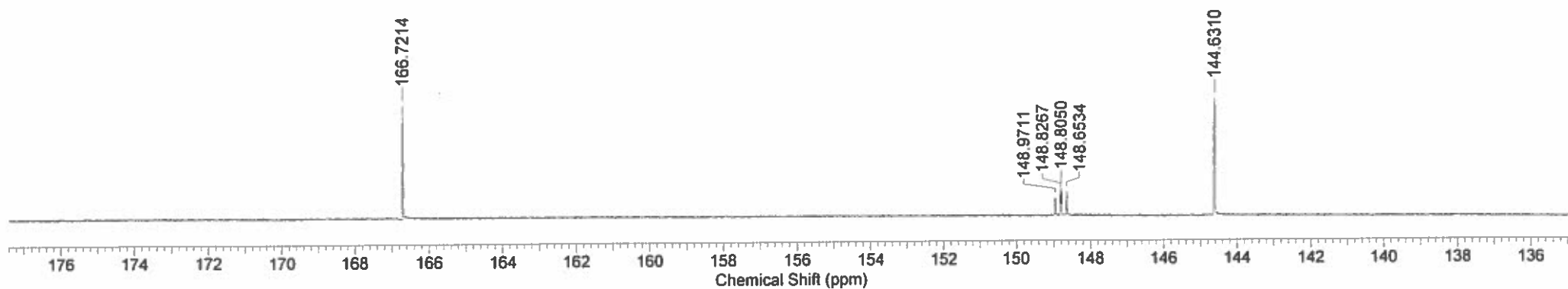


Acquisition Time (sec)	1.1010						
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Date	28 Feb 2015 19:50:24	Date Stamp	28 Feb 2015 19:50:24				
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015\Feb\data\staff\nmr\2015-02-27-staff-53\11\vid				Frequency (MHz)	125.77	
Nucleus	13C	Number of Transients	8192	Origin	spect	Original Points Count	32768
Owner	nmsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	184.40
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Spectrum Offset (Hz)	12660.7109	Spectrum Type	STANDARD
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.153				

PRM175-CNMR.esp



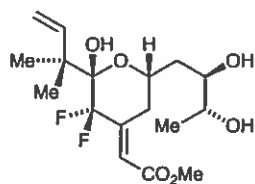
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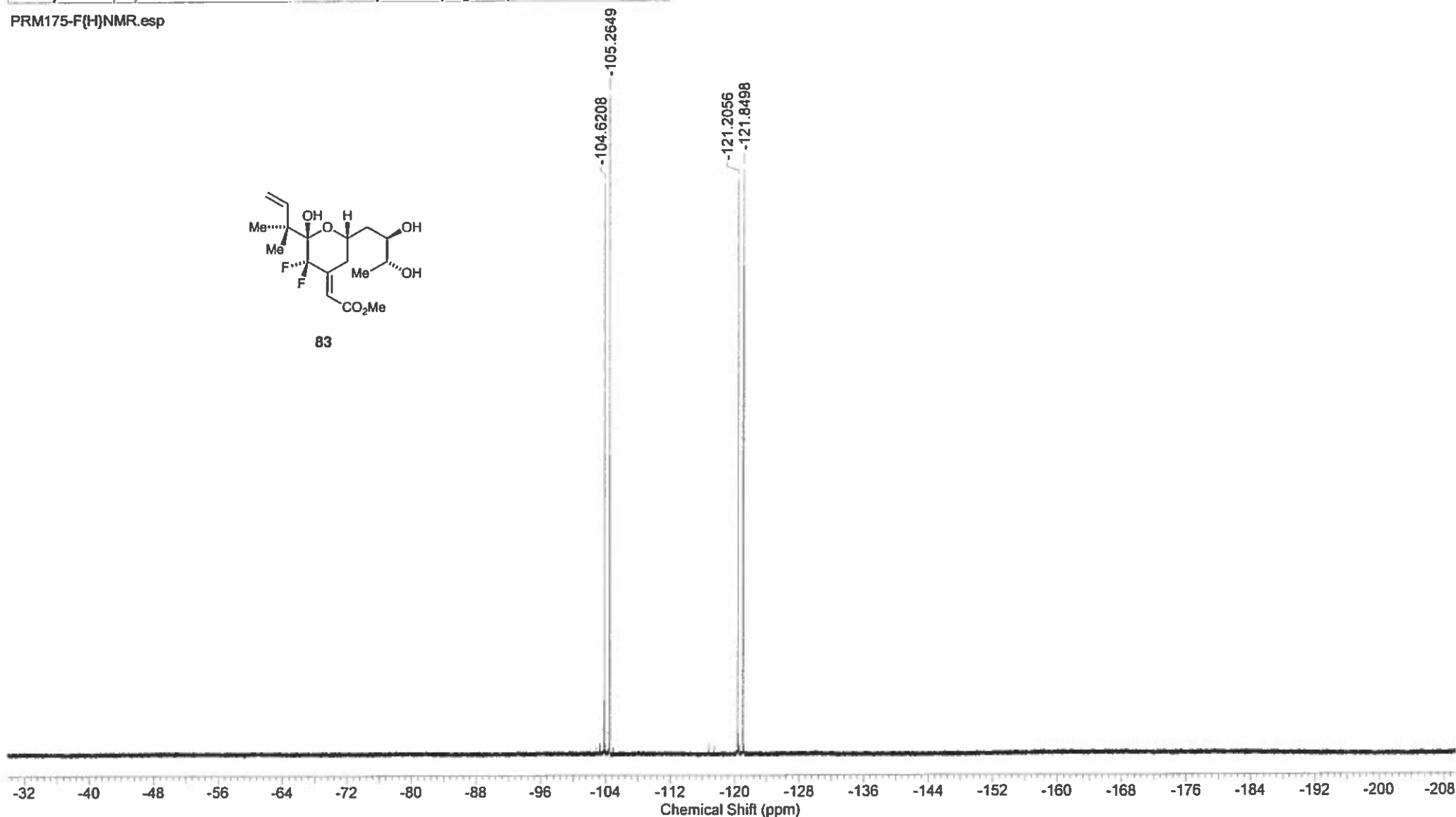
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	0.7340	Comment	EJT-PRM175 f6-28 11mg mF19CPD C6D6 (e:\bruk400adata\2015\Feb) ejt 45		
Date	25 Feb 2015 18:46:24		Date Stamp	25 Feb 2015 18:46:24	
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015\Feb\data\ejt\nmr\2015-02-25-ejt-45\14\PDAT\1\1r			Frequency (MHz)	376.50
Nucleus	19F	Number of Transients	16	Origin	AV400
Owner	nmrsu	Points Count	262144	Pulse Sequence	zgig
SW(cyclical) (Hz)	89285.71	Solvent	BENZENE-d6	Receiver Gain	322.00
Sweep Width (Hz)	89285.37	Temperature (degree C)	19.900	Spectrum Offset (Hz)	-37649.5977
				Spectrum Type	STANDARD

PRM175-F(H)NMR.esp



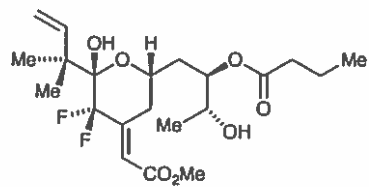
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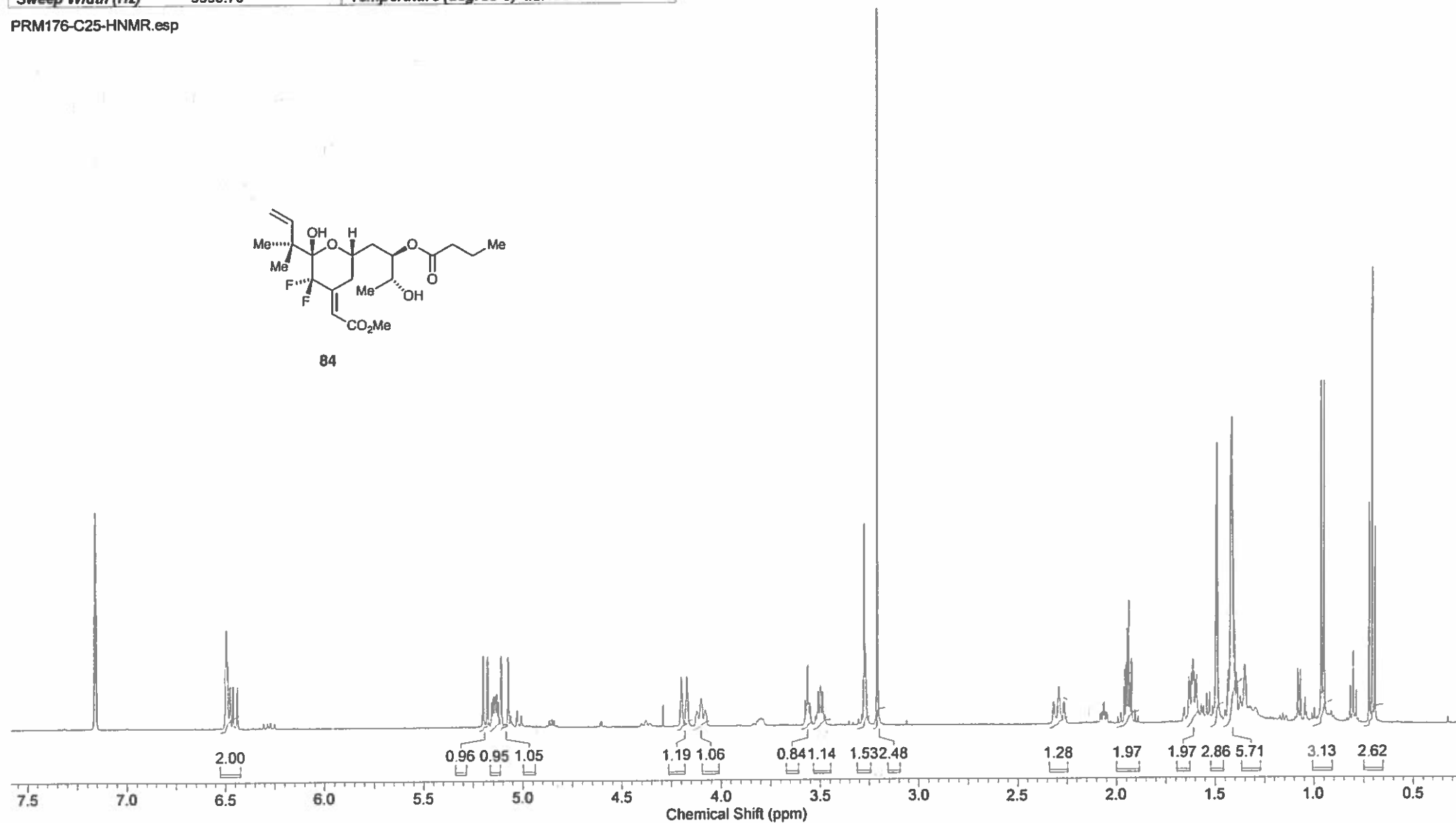
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	3.2768	Comment	0315 160 Mears P. EJT-PRM176 "C25" mPROTON C6D6 (E:\bruk500cdata\2015\Mar) staff 56		
Date	21 Mar 2015 20:43:44	Date Stamp	21 Mar 2015 20:43:44		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015\Mar\data\staff\nmr\2015-03-20-staff-56\10\fid			Frequency (MHz)	500.19
Nucleus	<sup>1</sup> H	Number of Transients	32	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30
SW(cyclical) (Hz)	10000.00	Solvent	BENZENE-d6	Spectrum Offset (Hz)	3092.6208
Sweep Width (Hz)	9999.70	Temperature (degree C)	22.153	Spectrum Type	STANDARD

PRM176-C25-HNMR.esp



84

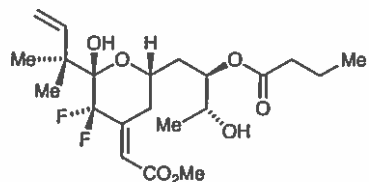


This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

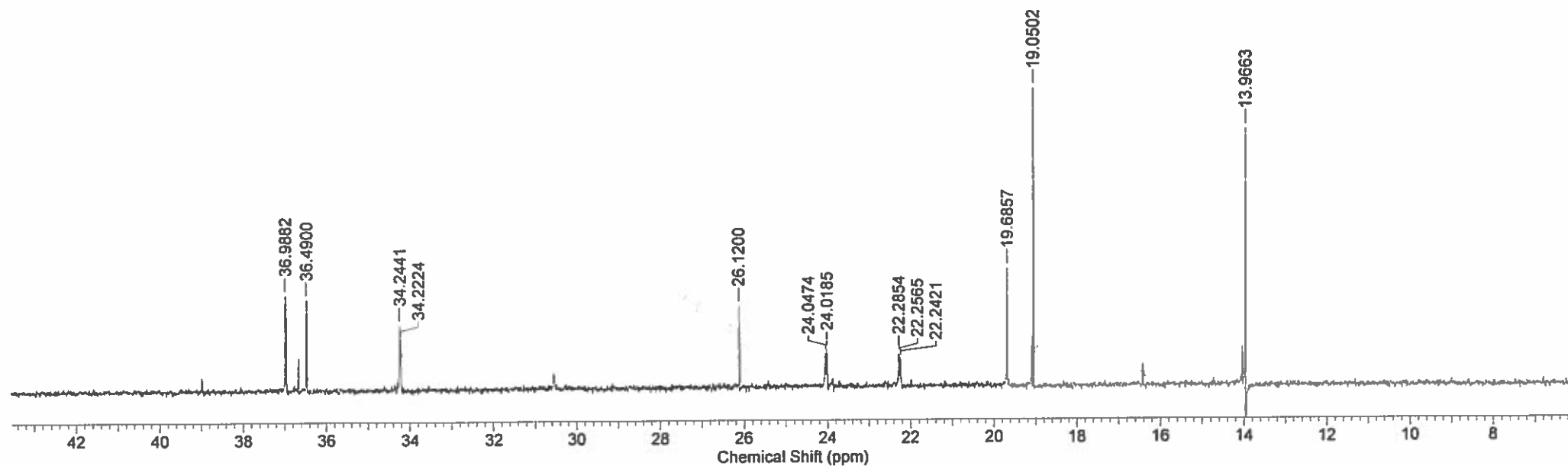
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Acquisition Time (sec)	1.1010	Comment	0315 160 Mears P. EJT-PRM176 "C25" mCARBON C6D6 (E:\bruk500cdata\2015Mar) staff 56				
Date	22 Mar 2015 05:45:36	Date Stamp	22 Mar 2015 05:45:36				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015Mar\data\staff\nmr\2015-03-20-staff-56\11\fid					Frequency (MHz)	125.77
Nucleus	13C	Number of Transients	10240	Origin	spect	Original Points Count	32768
Owner	nmrsl	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	184.40
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Spectrum Offset (Hz)	12661.6182	Spectrum Type	STANDARD
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.164				

PRM176-C25-CNMR.esp



84



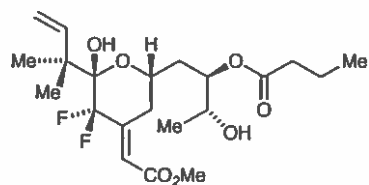


This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

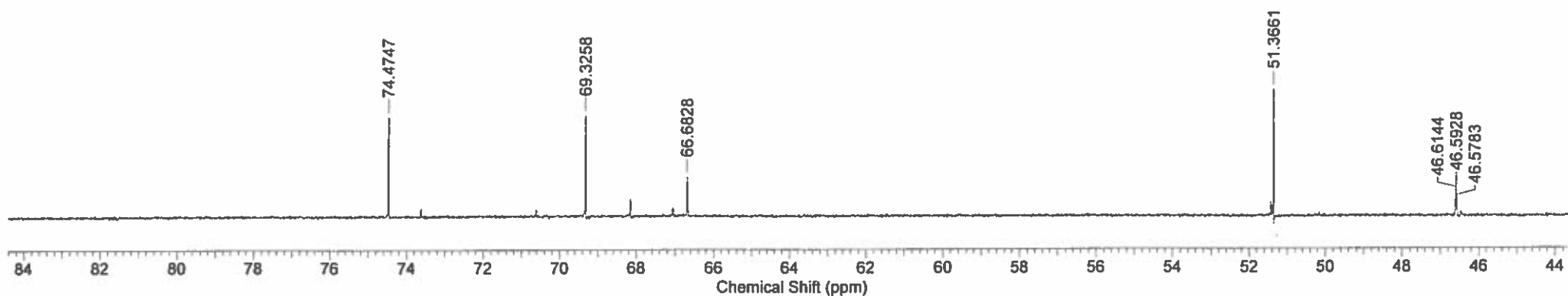
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Acquisition Time (sec)	1.1010	Comment	0315 160 Mears P. EJT-PRM176 "C25" mCARBON C6D6 (E:\bruk500cdata\2015\Mar) staff 56				
Date	22 Mar 2015 05:45:36	Date Stamp	22 Mar 2015 05:45:36				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015\Mar\data\staff\nmr\2015-03-20-staff-56\11Vid			Frequency (MHz)	125.77		
Nucleus	<sup>13</sup> C	Number of Transients	10240	Origin	spect	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	184.40
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Spectrum Offset (Hz)	12661.6182	Spectrum Type	STANDARD
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.164				

PRM176-C25-CNMR.esp



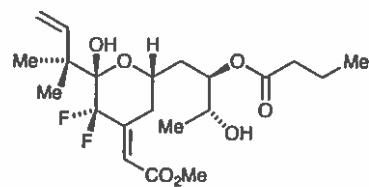
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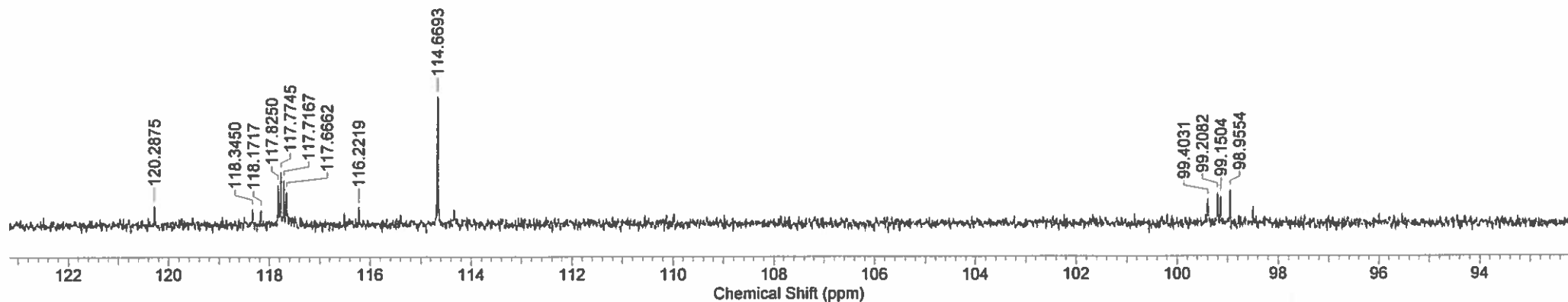
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010	Comment	0315 160 Mears P. EJT-PRM176 "C25" mCARBON C6D6 (E:\bruk500cdata\2015Mar) staff 56		
Date	22 Mar 2015 05:45:36	Date Stamp	22 Mar 2015 05:45:36		
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015Mar\data\staff\nmr\2015-03-20-staff-56\11Vid			Frequency (MHz)	125.77
Nucleus	<sup>13</sup> C	Number of Transients	10240	Origin	spect
Owner	nmr-su	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Receiver Gain	184.40
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.164	Spectrum Offset (Hz)	12661.6182
				Spectrum Type	STANDARD

PRM176-C25-CNMR.esp



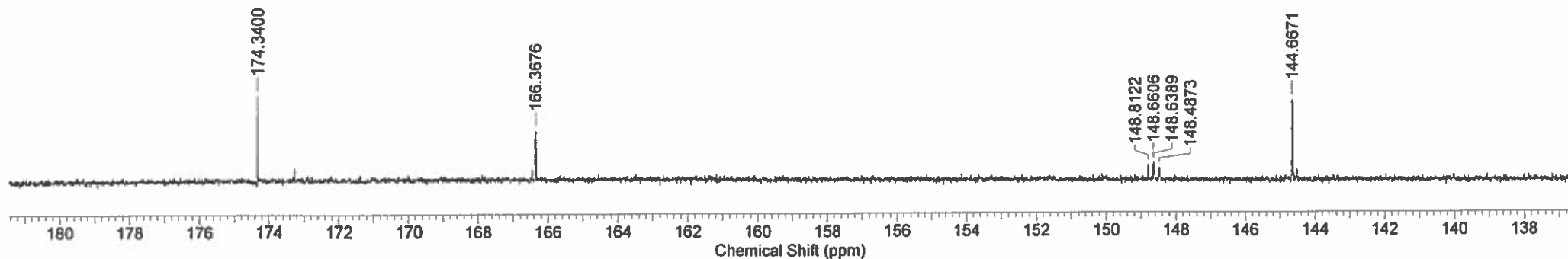
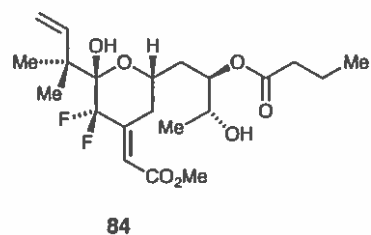
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This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.1010	Comment	0315 160 Mears P. EJT-PRM176 "C25" mCARBON C6D6 [E:\bruk500cdata\2015Mar] staff 56		
Date	22 Mar 2015 05:45:36	Date Stamp	22 Mar 2015 05:45:36		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015Mar\data\staff\nmr\2015-03-20-staff-56\11\fid			Frequency (MHz)	125.77
Nucleus	<sup>13</sup> C	Number of Transients	10240	Origin	spect
Owner	nrmrsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Receiver Gain	184.40
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.164	Spectrum Offset (Hz)	12661.6182
				Spectrum Type	STANDARD

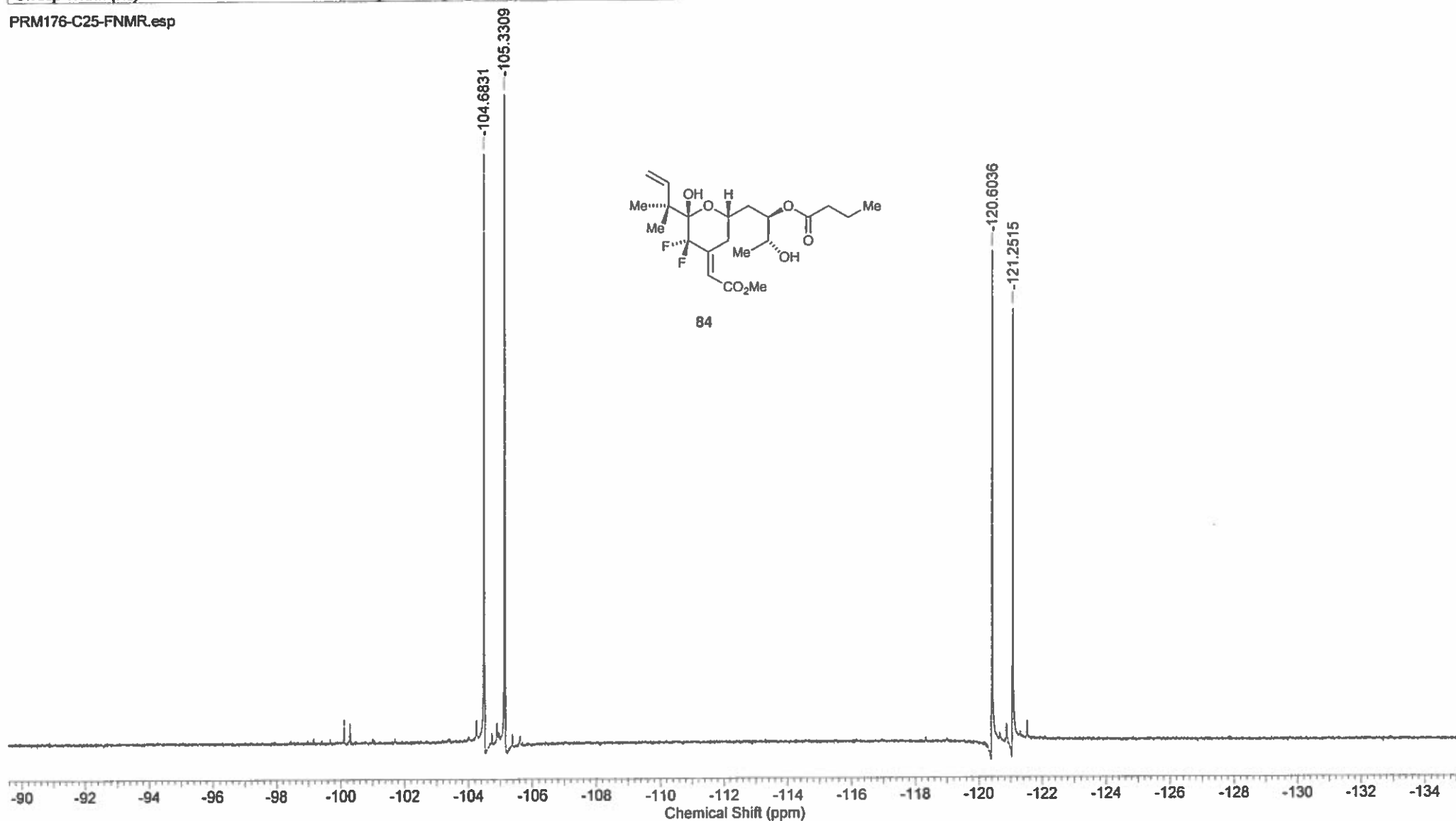
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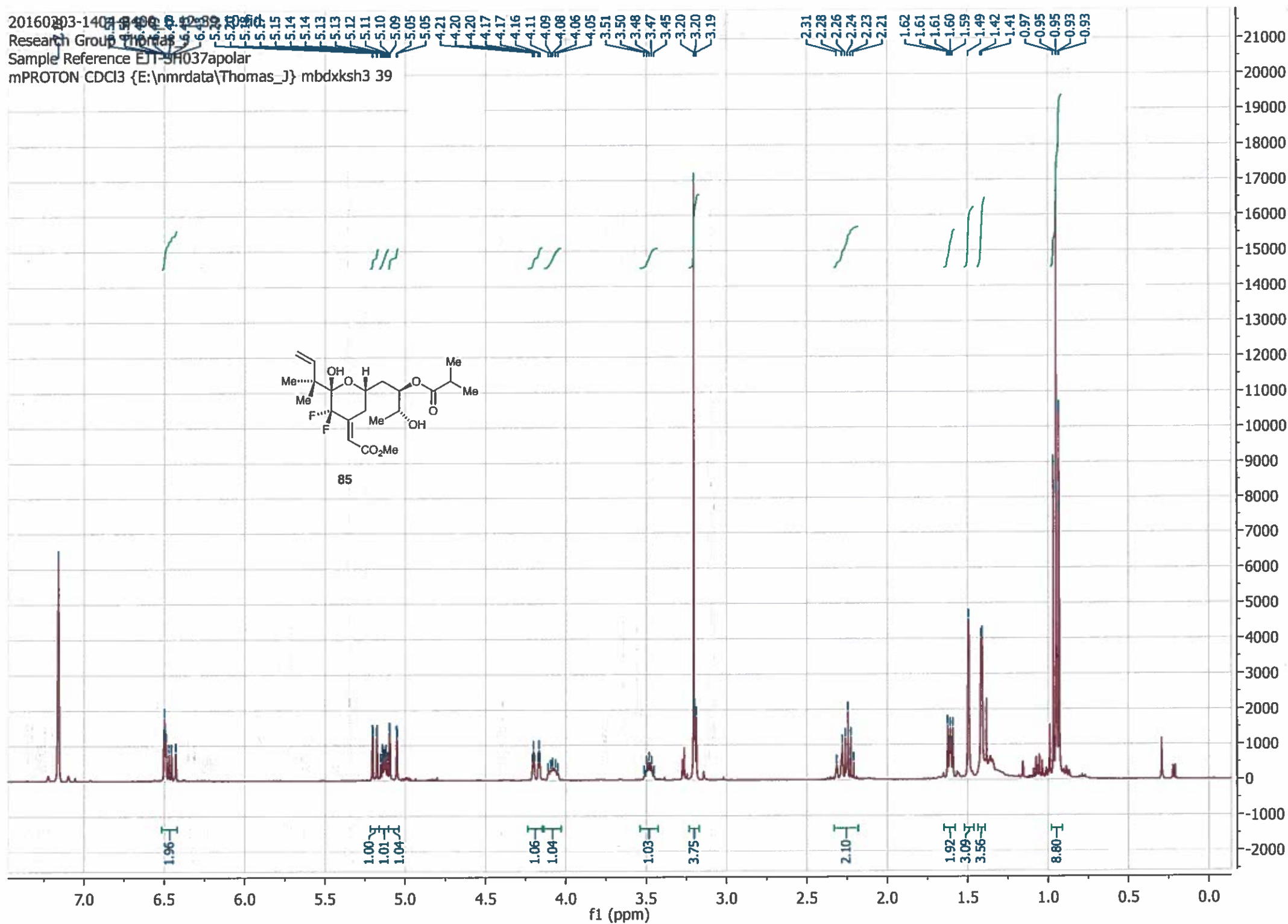
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	0.7340	Comment	EJT-PRM176 2nd re-col. f4-12 7mg mF19_cryo_zgbs C6D6 (e:\bruk400cdata\2015\Feb) ejt 44		
Date	05 Mar 2015 17:46:40	Date Stamp	05 Mar 2015 17:46:40		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015\Feb\data\ejt\nmr\2015-03-05-ejt-44\11\fid			Frequency (MHz)	376.44
Nucleus	<sup>19</sup> F	Number of Transients	16	Origin	spect
Owner	nrmru	Points Count	65536	Pulse Sequence	zgbs
SW(cyclical) (Hz)	89285.71	Solvent	BENZENE-d6	Spectrum Offset (Hz)	-37644.8594
Sweep Width (Hz)	89284.35	Temperature (degree C)	15.742	Spectrum Type	STANDARD

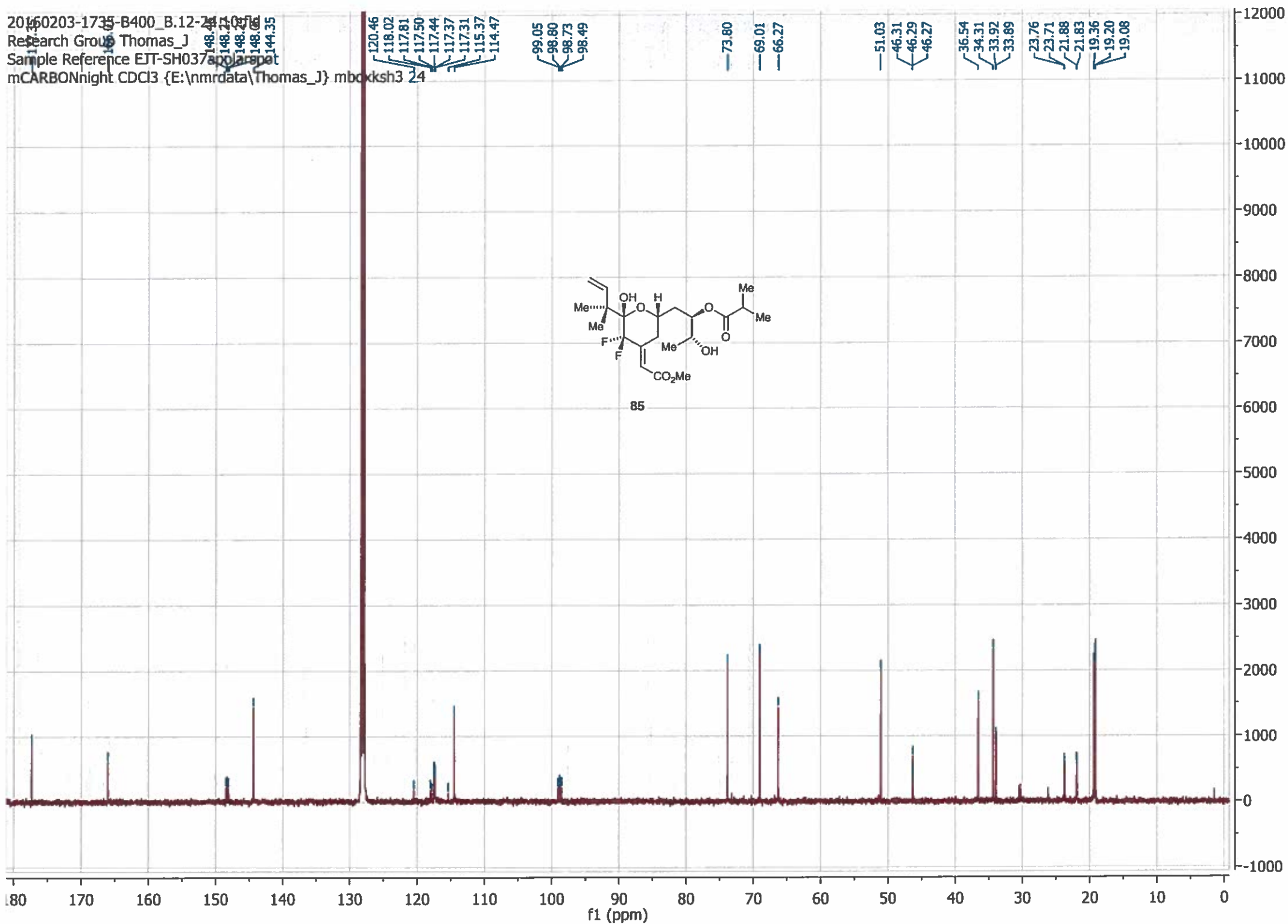
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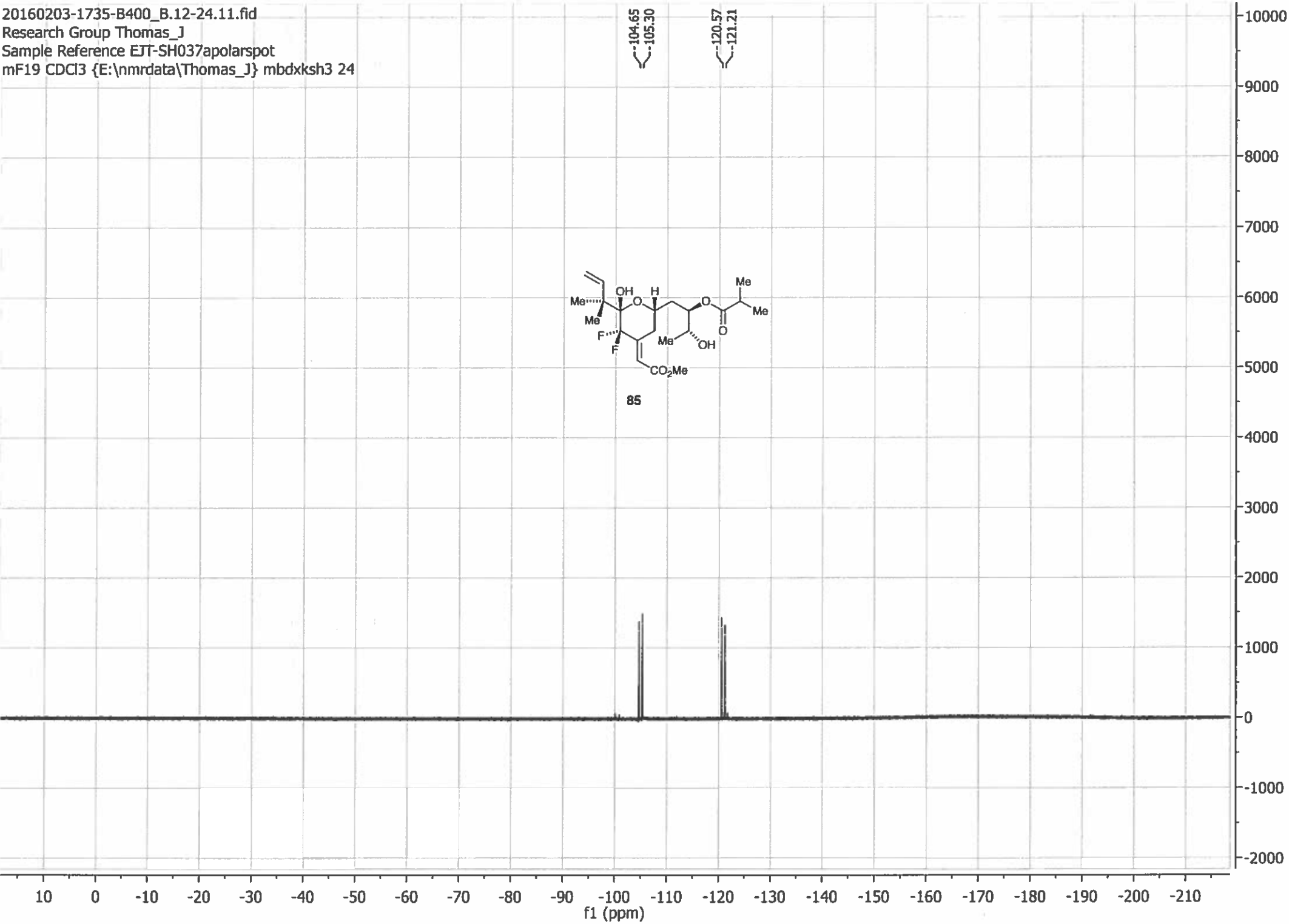
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Research Group Thomas  
Sample Reference EJT-SH037apolar  
mPROTON CDCI3 {E:\nmrdata\Thomas\_} mbdxksh3 39



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Research Group: Thomas\_J  
Sample Reference: ETT-SH037.ap01.ap01  
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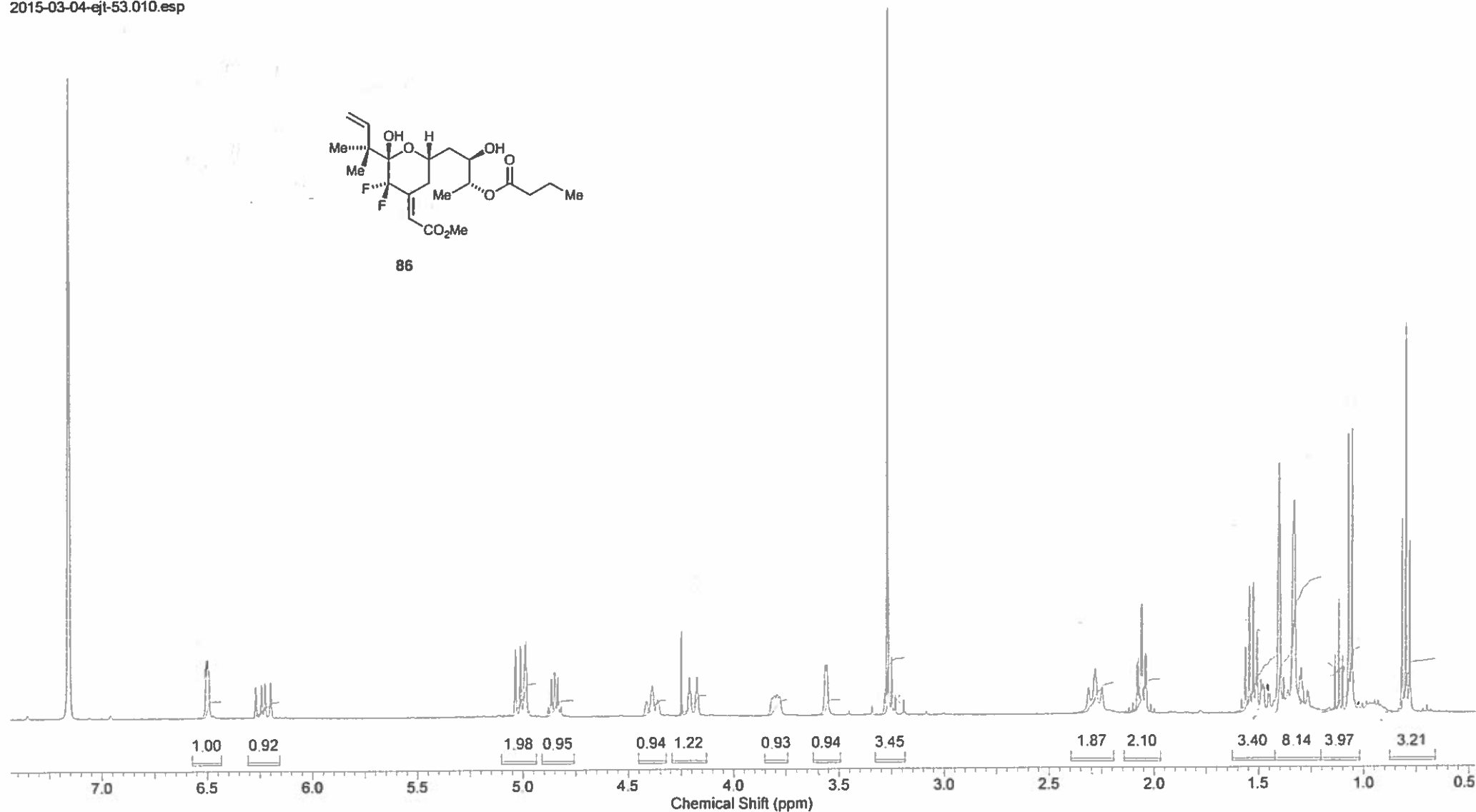
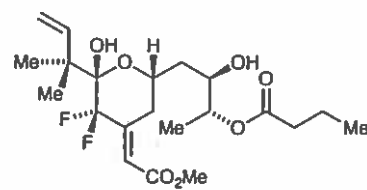
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Research Group Thomas\_J  
Sample Reference EJT-SH037apolarspot  
mF19 CDCl3 {E:\nmrdata\Thomas\_J} mbdxksh3 24



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Acquisition Time (sec)	4.0894	Comment	EJT-PRM176 f6-17 6mg mPROTON A C6D6 {e:\bruk400cdata\2015\Feb} ejt 53		
Date	04 Mar 2015 10:14:24	Date Stamp	04 Mar 2015 10:14:24		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015\Feb\data\ejt\nmr\2015-03-04-ejt-53\10\fid			Frequency (MHz)	400.07
Nucleus	<sup>1</sup> H	Number of Transients	4	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30
SW(cyclical) (Hz)	8012.82	Solvent	BENZENE-d6	Receiver Gain	161.00
Sweep Width (Hz)	8012.58	Temperature (degree C)	15.338	Spectrum Offset (Hz)	1903.3687
				Spectrum Type	STANDARD

2015-03-04-ejt-53.010.esp



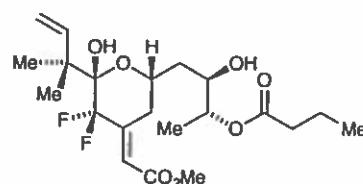


This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

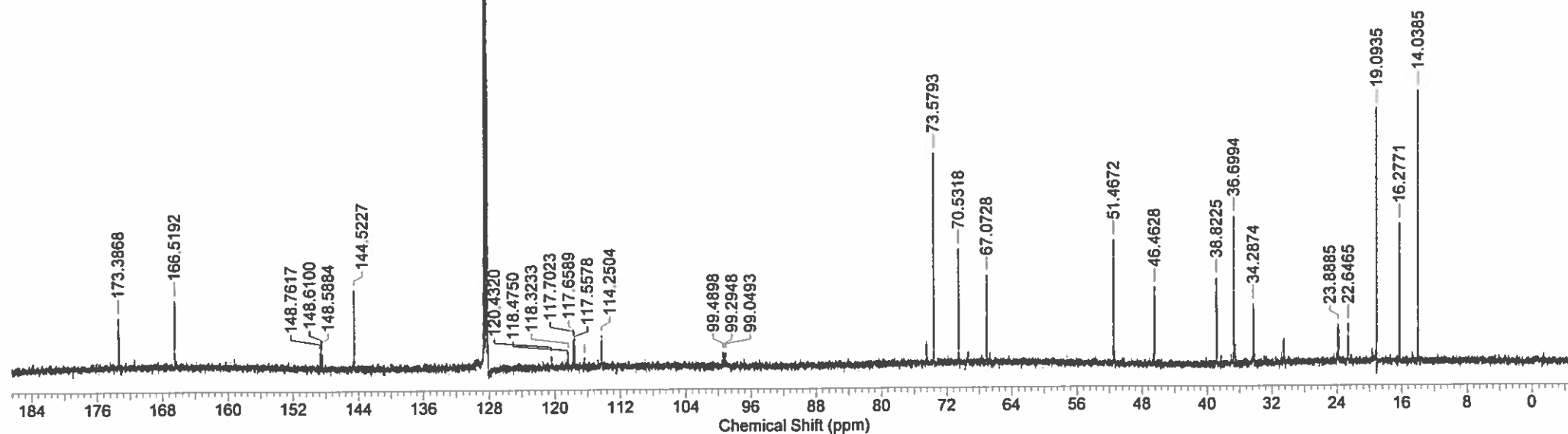
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmr/proc/](http://www.acdlabs.com/nmr/proc/)

Acquisition Time (sec)	1.1010	Comment	0315 159 Mears P. EJ-PRM176 "C26" mCARBON C6D6 (E:\bruk500cdata\2015\Mar) staff 55				
Date	21 Mar 2015 19:39:44	Date Stamp	21 Mar 2015 19:39:44				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500cdata\2015\Mar\data\staff\nmr\2015-03-20-staff-55\11\vid						
Nucleus	13C	Number of Transients	10240	Origin	spect	Frequency (MHz)	125.77
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Original Points Count	32768
SW(cyclical) (Hz)	29761.90	Solvent	BENZENE-d6	Spectrum Offset (Hz)	12661.6182	Receiver Gain	184.40
Sweep Width (Hz)	29761.00	Temperature (degree C)	22.158	Spectrum Type	STANDARD		

PRM176-C26-CNMR.esp



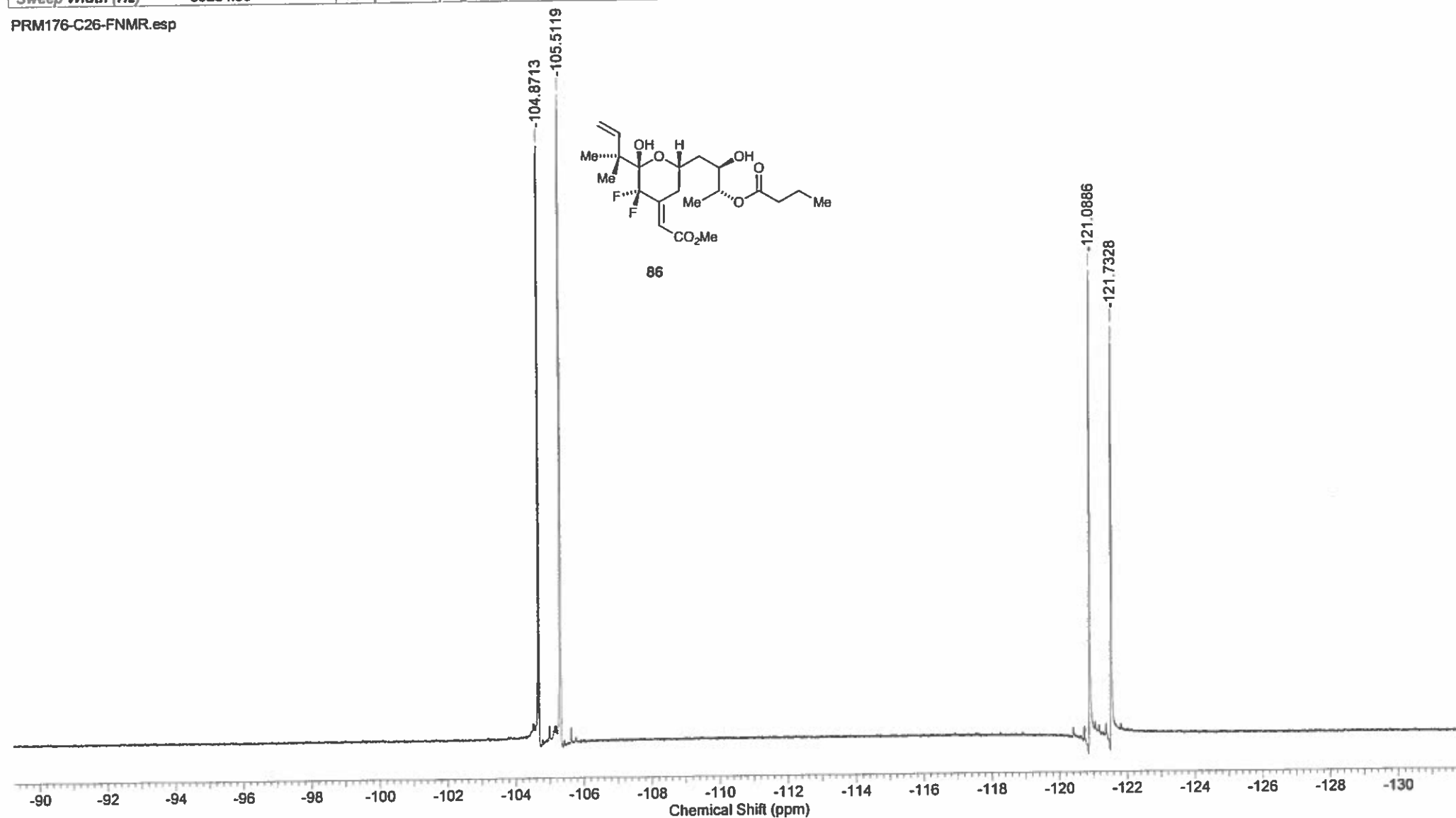
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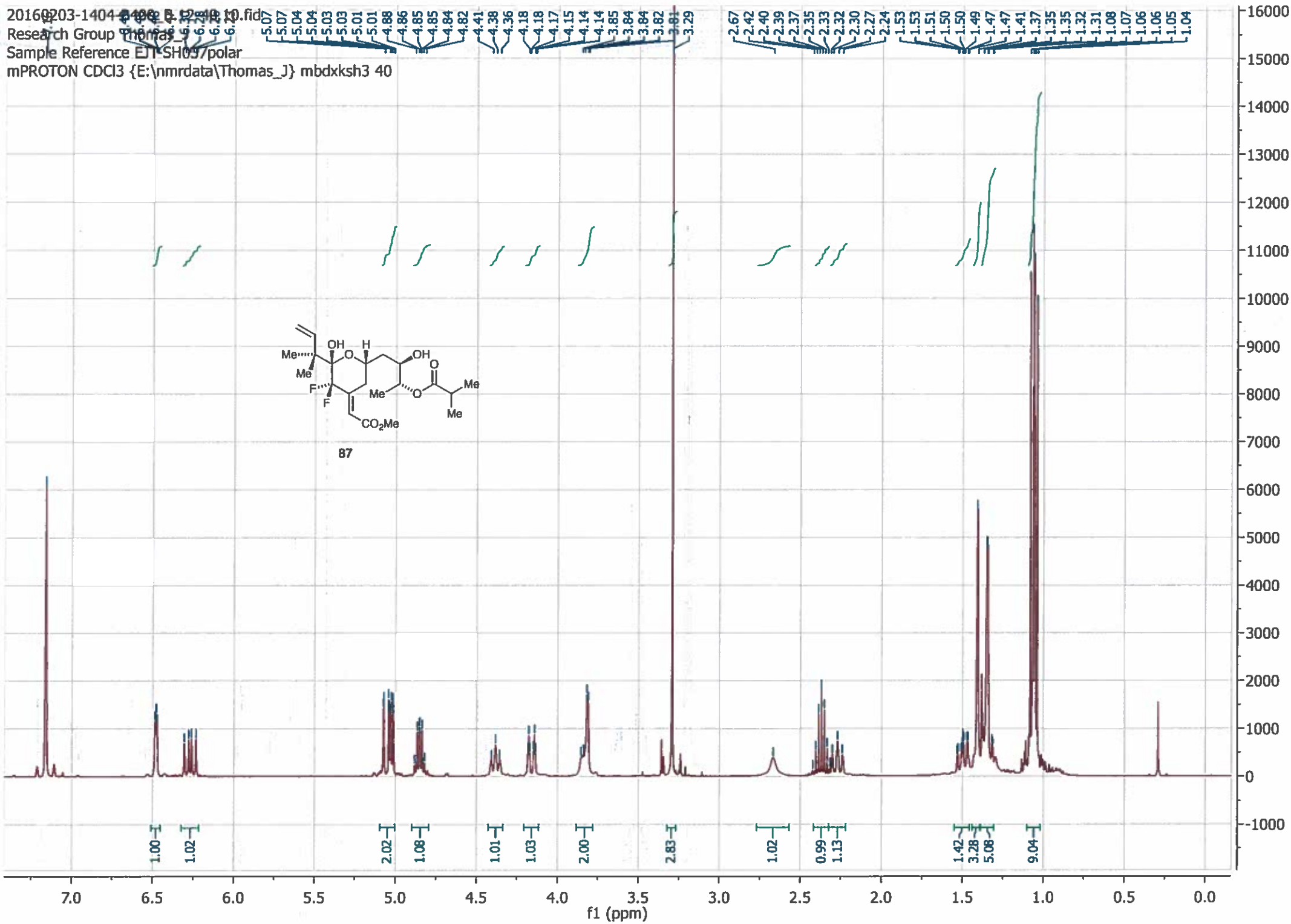
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	0.7340	Comment	EJT-PRM176 f6-17 6mg mF19 cryo zgbs C6D6 (e:\bruk400cdata\2015\Feb) ejt 53		
Date	04 Mar 2015 10:16:32	Date Stamp	04 Mar 2015 10:16:32		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015\Feb\data\ejt\nmr\2015-03-04-ejt-53\11\fid			Frequency (MHz)	376.44
Nucleus	19F	Number of Transients	16	Origin	spect
Owner	nmrsu	Points Count	65536	Pulse Sequence	zgbs
SW(cyclical) (Hz)	89285.71	Solvent	BENZENE-d6	Receiver Gain	20.20
Sweep Width (Hz)	89284.35	Temperature (degree C)	15.336	Spectrum Offset (Hz)	-37644.8594
				Spectrum Type	STANDARD

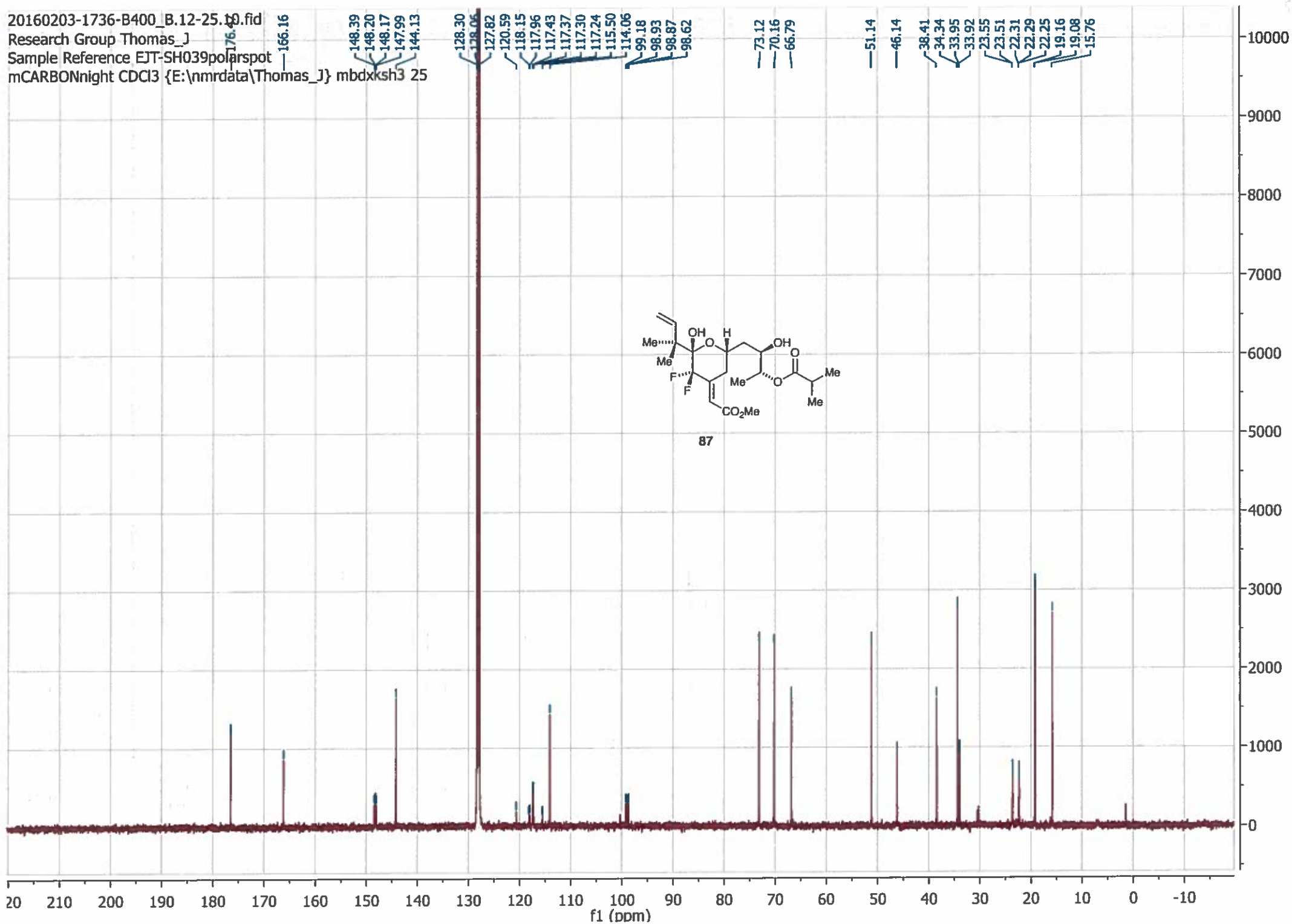
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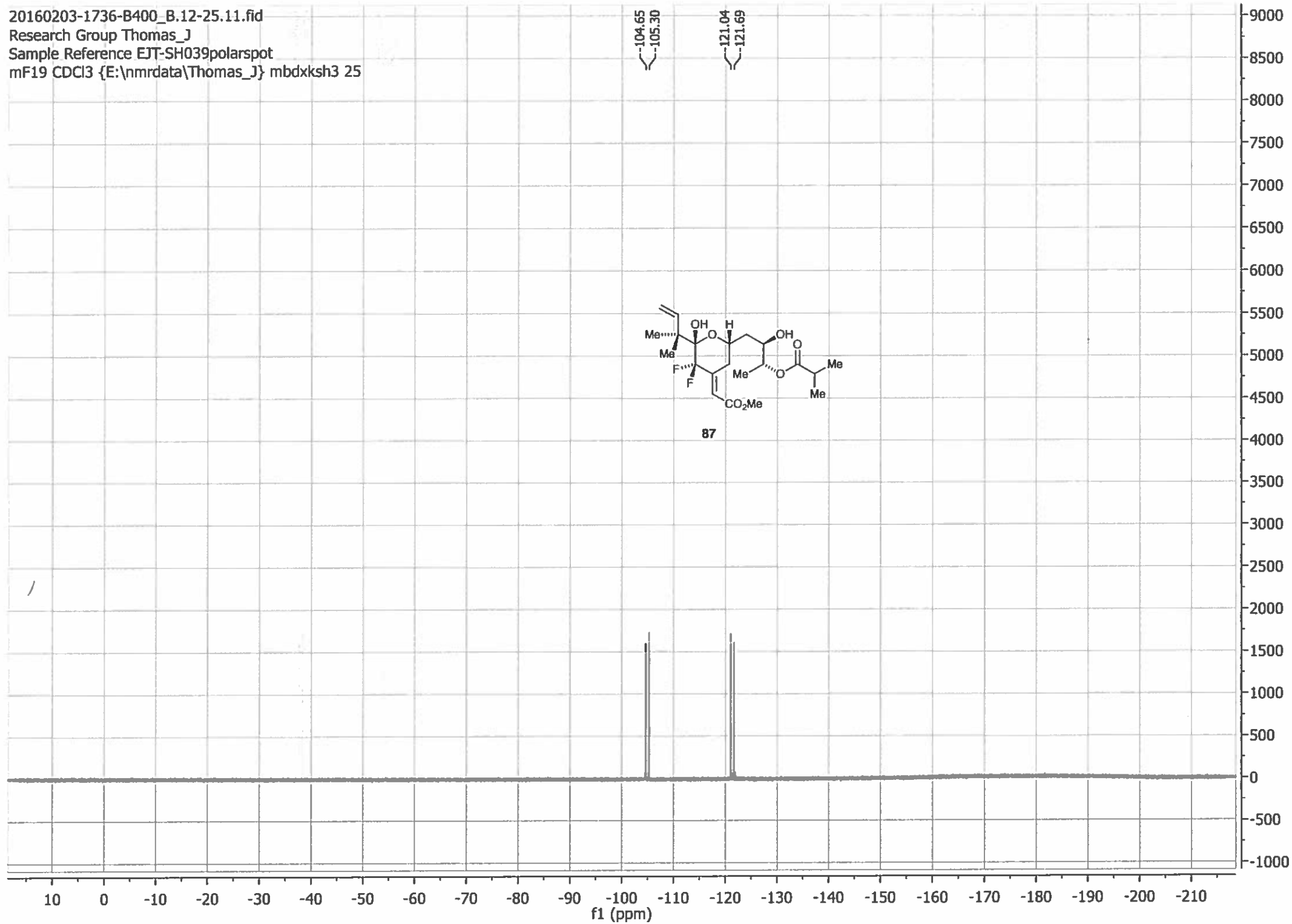
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 Research Group Thomas\_J  
 Sample Reference EJT-SH03/polar  
 mPROTON CDCl3 {E:\nmrdata\Thomas\_J} mbdxksh3 40



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 Research Group Thomas\_J  
 Sample Reference EJT-SH039polarspot  
 mCARBONnight CDCl3 {E:\nmrdata\Thomas\_J} mbdxksh3 25

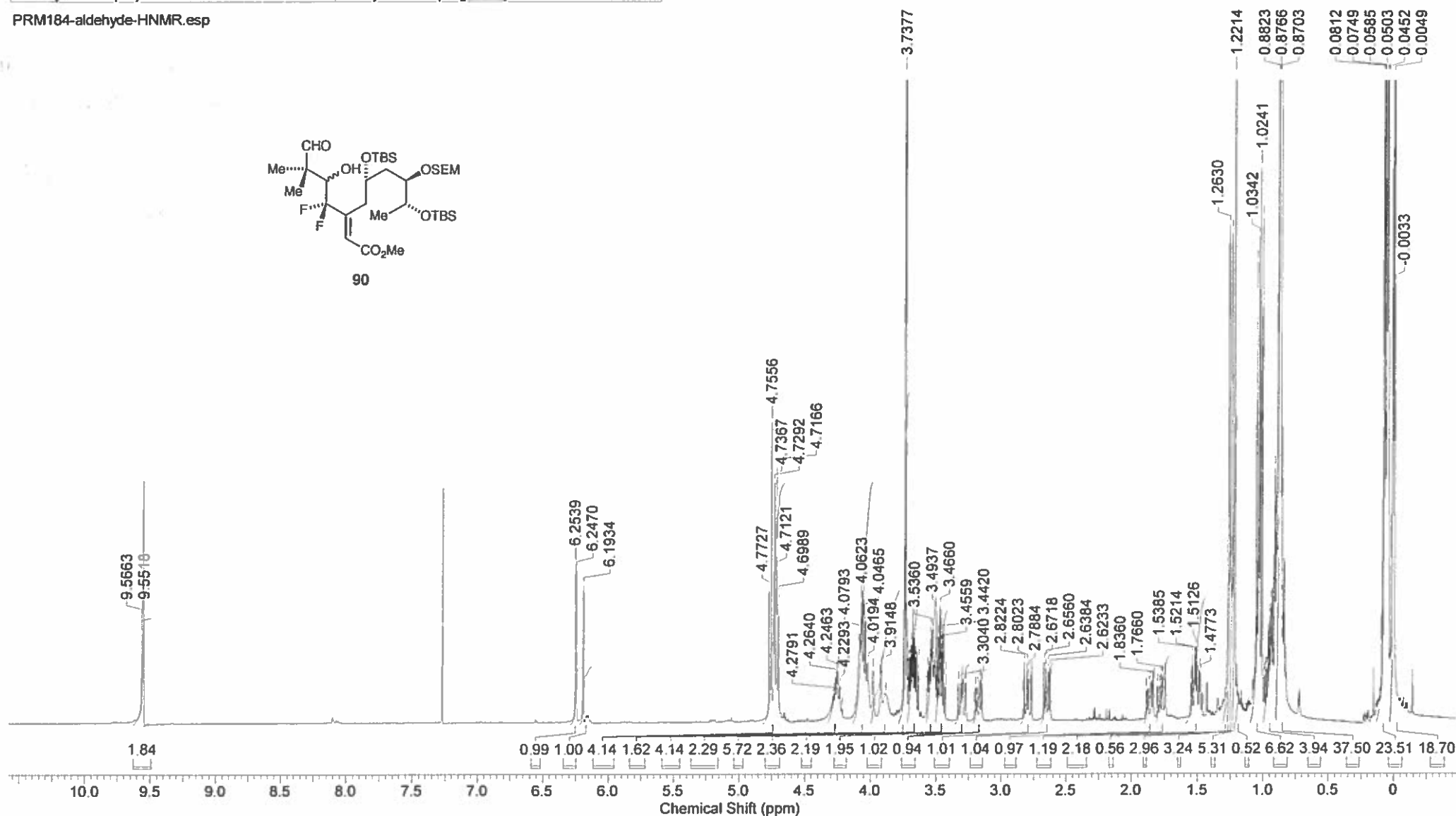
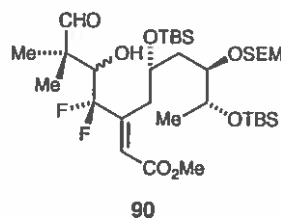


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Research Group Thomas\_J  
Sample Reference EJT-SH039polarspot  
mF19 CDCl3 {E:\nmrdata\Thomas\_J} mbdxksh3 25



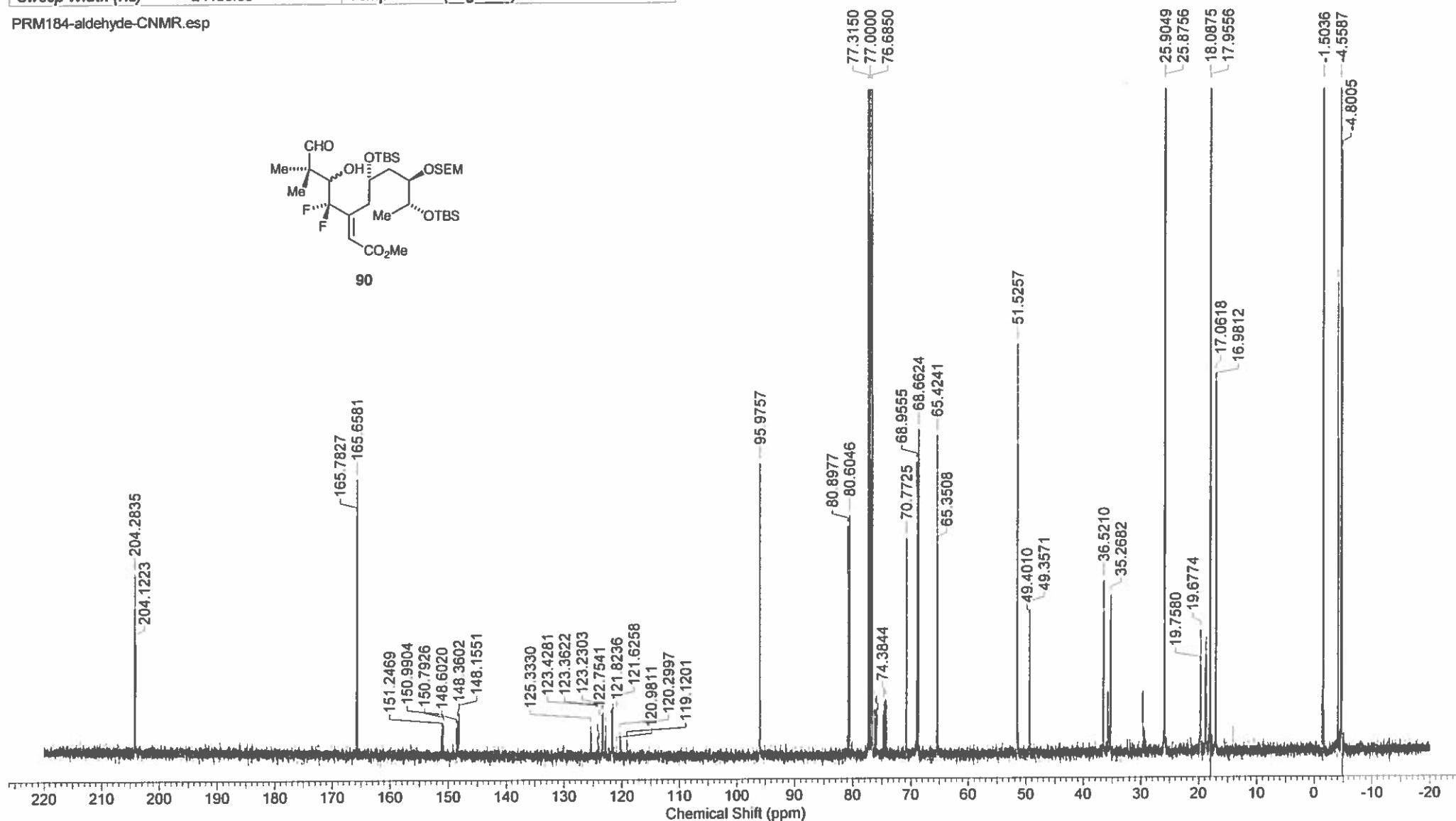
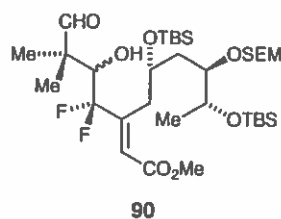
Acquisition Time (sec)	3.9649	Comment	EJT-PRM184 f8-25 157mg mPROTON CDCI3 (e:\bruk400adata\2015\Jul) ejt 52		
Date	14 Jul 2015 19:25:04	Date Stamp	14 Jul 2015 19:25:04		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015\Jul\data\ejt\nmr\2015-07-14-ejt-52\10\fid			Frequency (MHz)	400.13
Nucleus	<sup>1</sup> H	Number of Transients	16	Origin	AV400
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30b
SW(cyclical) (Hz)	8264.46	Solvent	CHLOROFORM-d	Receiver Gain	36.00
Sweep Width (Hz)	8264.21	Temperature (degree C)	21.300	Spectrum Type	STANDARD

PRM184-aldehyde-HNMR.esp



Acquisition Time (sec)	1.3566	Comment	EJT-PRM184 f8-25 157mg mCARBONnight CDC13 (e:\bruk400adata\2015Jul) ejt 52		
Date	14 Jul 2015 22:30:40	Date Stamp	14 Jul 2015 22:30:40		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015Jul\data\ejt\nmr\2015-07-14-ejt-52\13\fid	Frequency (MHz)	100.61		
Nucleus	<sup>13</sup> C	Number of Transients	3000	Origin	AV400
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	24154.59	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10059.2100
Sweep Width (Hz)	24153.85	Temperature (degree C)	22.900	Receiver Gain	512.00
				Spectrum Type	STANDARD

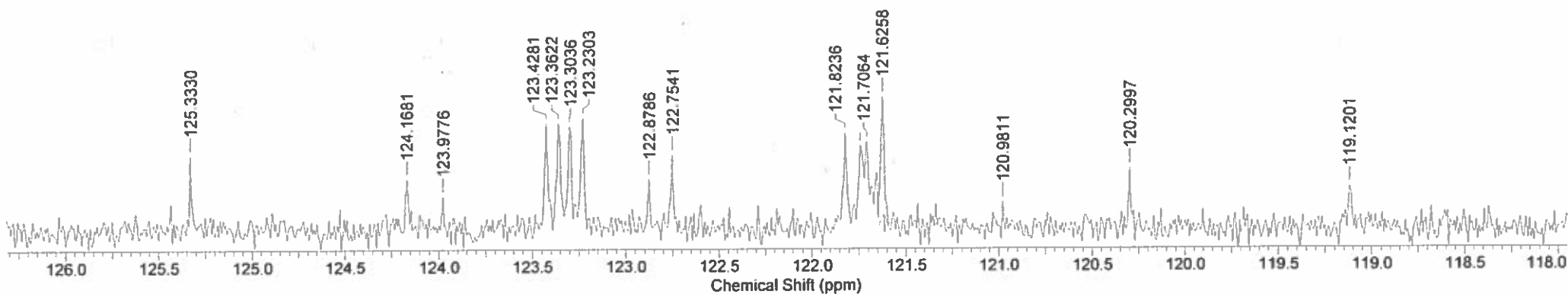
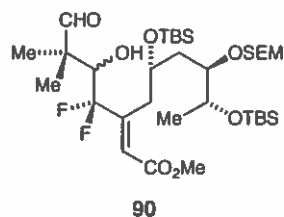
PRM184-aldehyde-CNMR.esp



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Acquisition Time (sec)	1.3566	Comment	EJT-PRM184 f8-25 157mg mCARBONnight CDCl3 (e:\bruk400adata\2015\Jul)\ejt 52		
Date	14 Jul 2015 22:30:40	Date Stamp	14 Jul 2015 22:30:40		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015\Jul\data\ejt\nmr\2015-07-14-ejt-52\13fid			Frequency (MHz)	100.61
Nucleus	13C	Number of Transients	3000	Origin	AV400
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	24154.59	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10059.2100
Sweep Width (Hz)	24153.85	Temperature (degree C)	22.900	Spectrum Type	STANDARD

PRM184-aldehyde-CNMR.esp

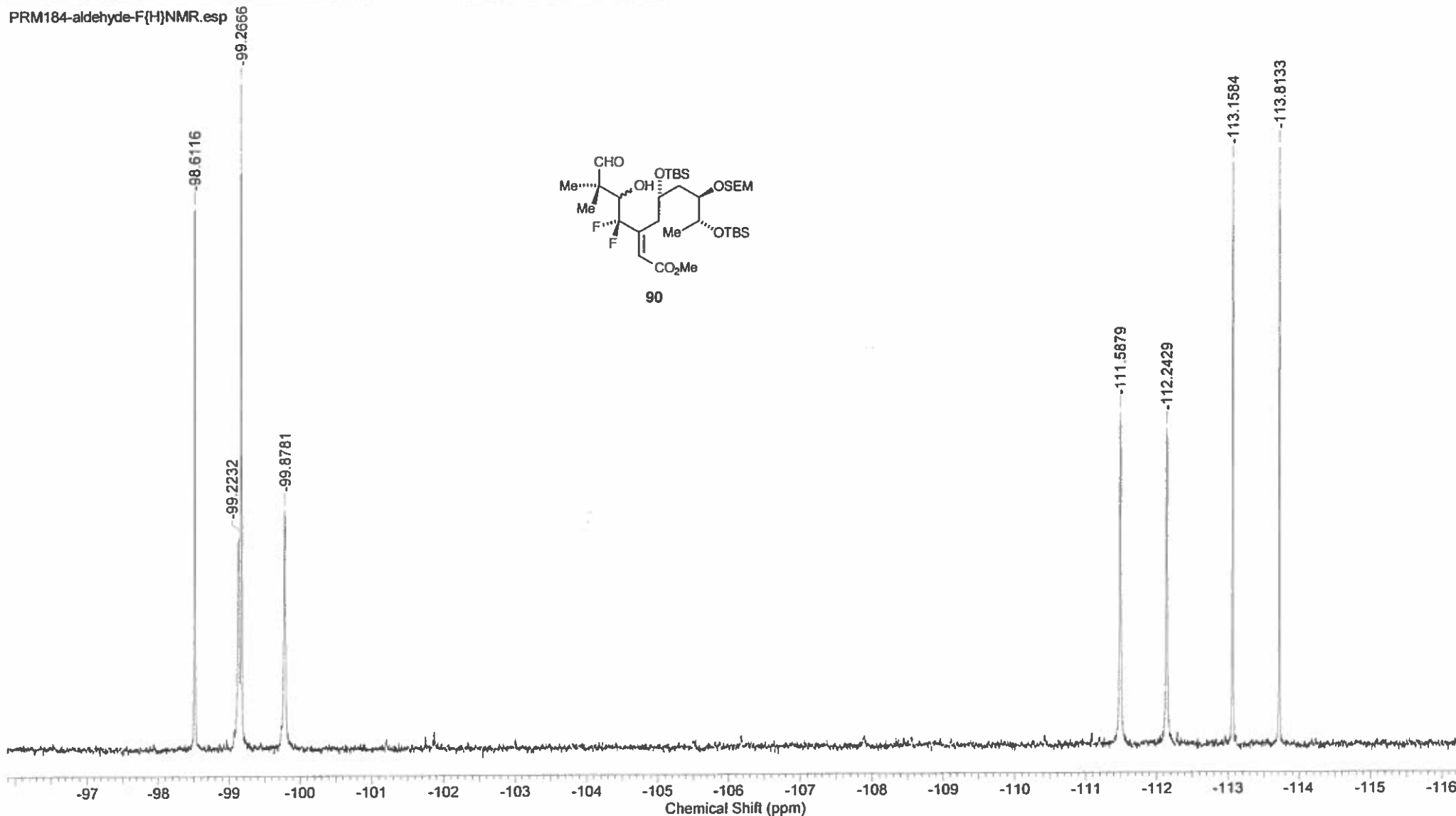
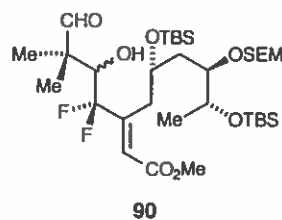




This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

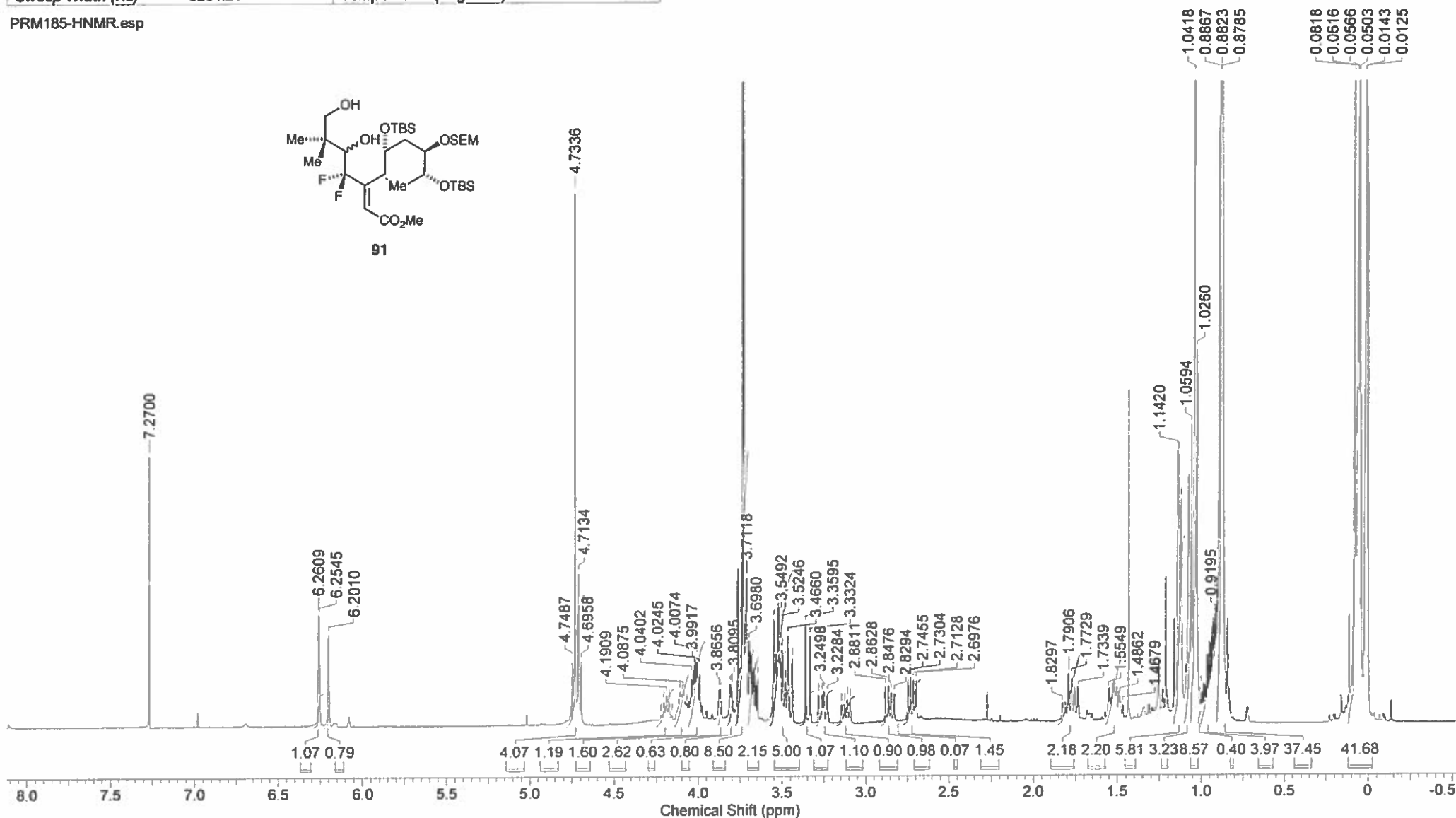
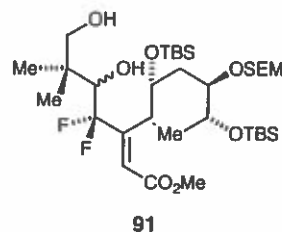
This report was created by ACD/NAME 1.0000001 Academic Edition V.01. More information go to: www.acdata.com/NAME1.0000001								
Acquisition Time (sec)	0.7340	Comment	EJT-PRM184 f8-25 157mg mF19CPD CDCl3 (e:\bruk400adata\2015Jul) ejt 52					
Date	14 Jul 2015 19:29:20	Date Stamp	14 Jul 2015 19:29:20					
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015Jul\data\ejt\nmr\2015-07-14-ejt-52\12\fid						Frequency (MHz)	376.50
Nucleus	19F	Number of Transients	16	Origin	AV400	Original Points Count	65536	
Owner	nmrsu	Points Count	65536	Pulse Sequence	zgig	Receiver Gain	362.00	
SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37649.5977	Spectrum Type	STANDARD	
Sweep Width (Hz)	89284.35	Temperature (degree C)	21.500					

PRM184-aldehyde-F{H}NMR.esp



Acquisition Time (sec)	3.9649	Comment	EJT-PRM185 f15-33 118mg mPROTON CDCl3 {e:\bruk400adata\2015Jul} ejt 40		
Date	16 Jul 2015 16:08:48	Date Stamp	16 Jul 2015 16:08:48		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015Jul\data\ejt\1nmr\2015-07-16-ejt-40\10vid			Frequency (MHz)	400.13
Nucleus	1H	Number of Transients	16	Origin	AV400
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30b
SW(cyclical) (Hz)	8264.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	2464.9270
Sweep Width (Hz)	8264.21	Temperature (degree C)	21.500	Spectrum Type	STANDARD

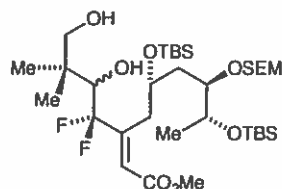
PRM185-HNMR.esp



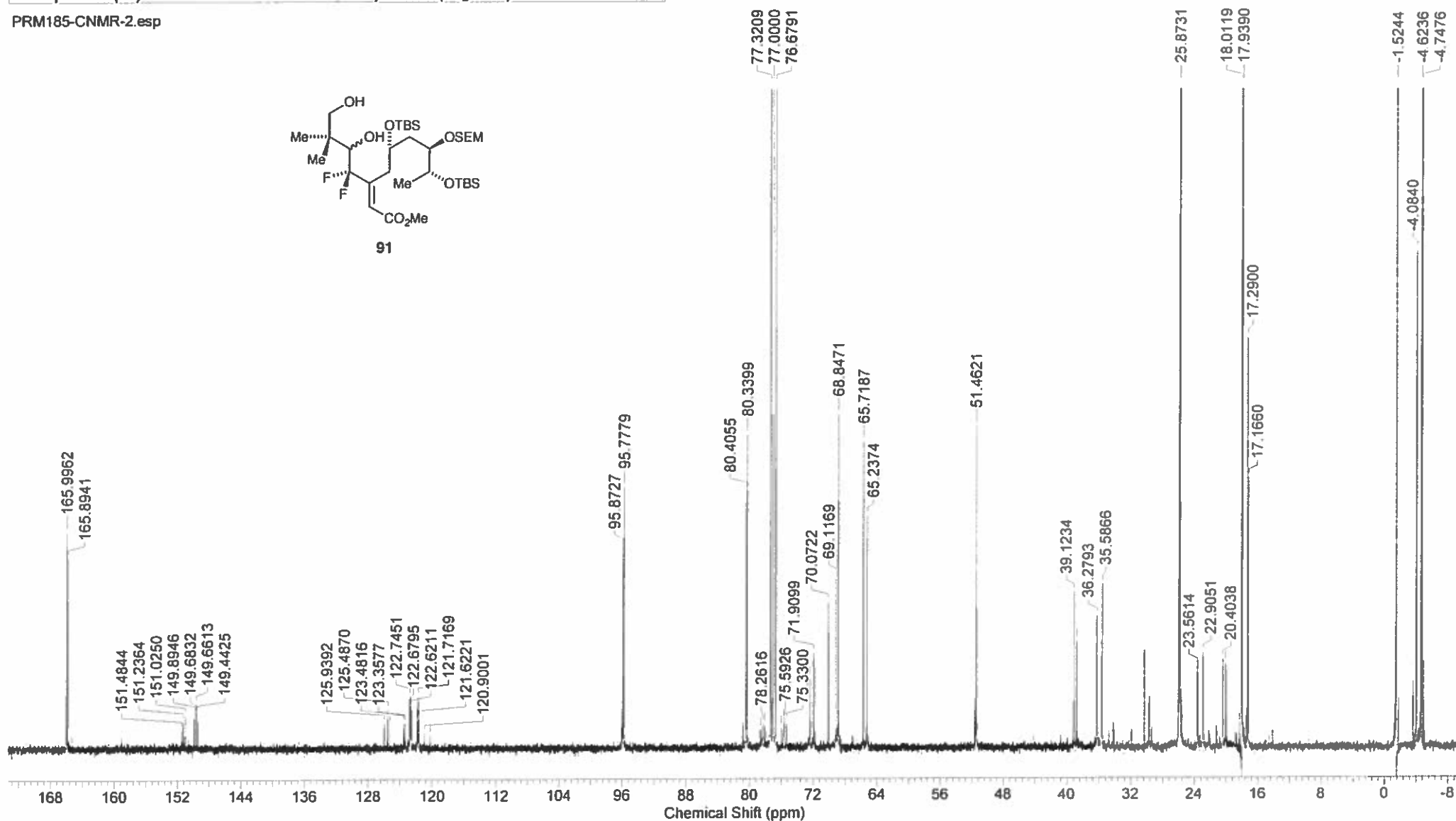
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.3631	Comment	EJT-PRM185 Prod mCARBON_B CDCl3 (e:\bruk400cdata\2015Jul) ejt 20				
Date	22 Jul 2015 23:41:04		Date Stamp	22 Jul 2015 23:41:04			
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Nucleus	13C	Number of Transients	1024	Origin	spect	Original Points Count	32768
Owner	nrmrsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	45.20
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10050.6006	Spectrum Type	STANDARD
Sweep Width (Hz)	24037.73	Temperature (degree C)	17.967				

PRM185-CNMR-2.esp



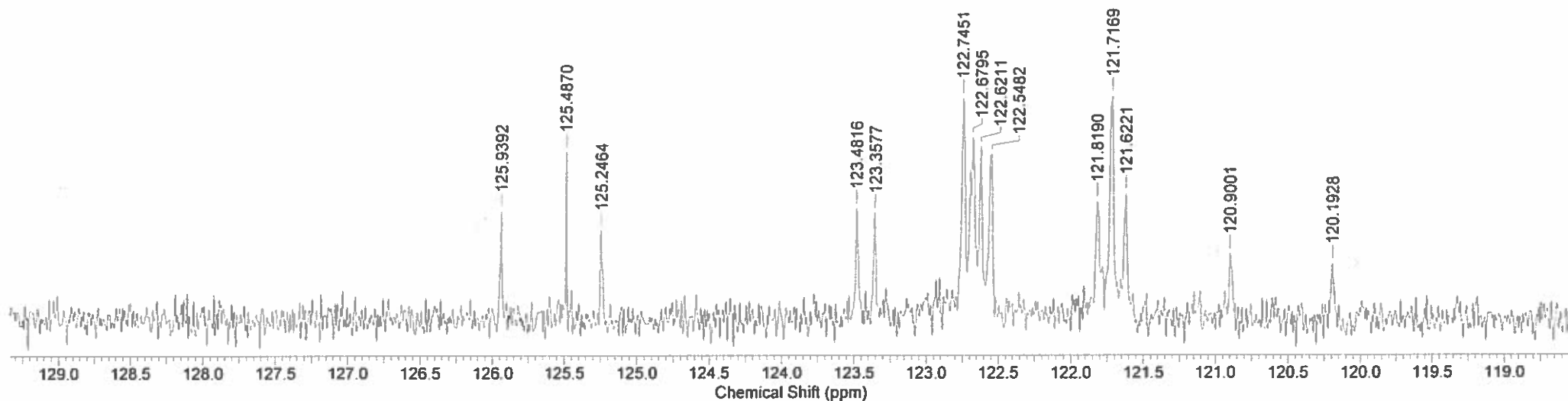
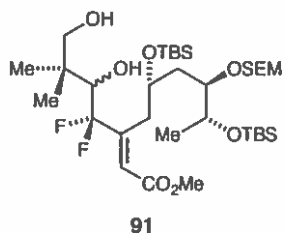
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This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.3631	Comment	EJT-PRM185 Prod mCARBON B CDCl3 (e:\bruk400cdata\2015\Jul) ejt 20				
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Nucleus	13C	Number of Transients	1024	Origin	spect	Original Points Count	32768
Owner	nmsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	45.20
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10050.6006	Spectrum Type	STANDARD
Sweep Width (Hz)	24037.73	Temperature (degree C)	17.967				

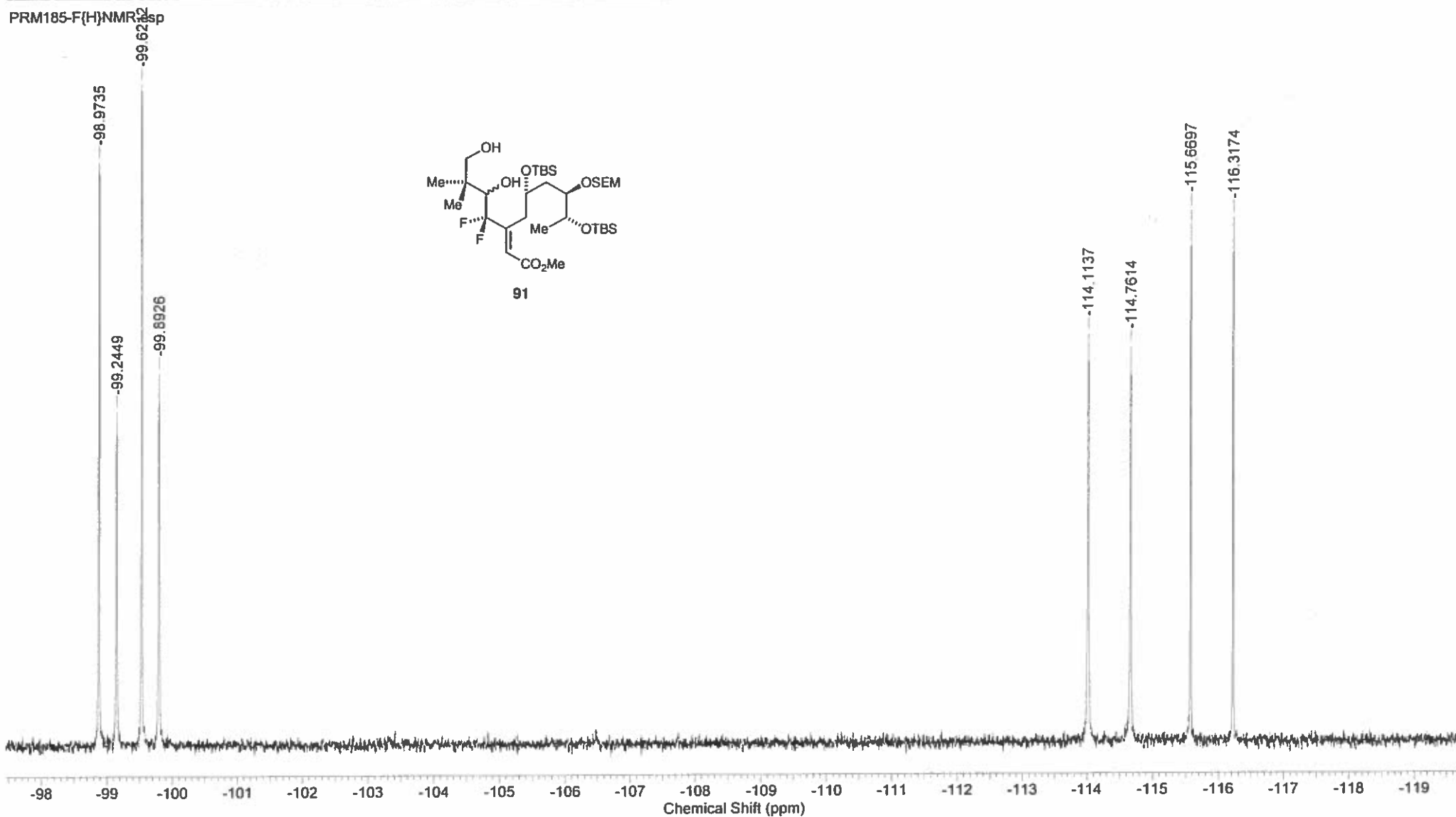
2015-07-22-ejt-20.010.esp



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Acquisition Time (sec)	0.7340	Comment	EJT-PRM185 f15-33 118mg mF19CPD CDCl3 {e:\bruk400adata\2015\Jul} ejt 40				
Date	16 Jul 2015 16:13:04	Date Stamp	16 Jul 2015 16:13:04				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400adata\2015\Jul\data\ejt\nmr\2015-07-16-ejt-40\12\fid				Frequency (MHz)	376.50	
Nucleus	19F	Number of Transients	16	Origin	AV400	Original Points Count	65536
Owner	nmrsu	Points Count	65536	Pulse Sequence	zgig	Receiver Gain	362.00
SW(cyclical) (Hz)	89285.71	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-37649.5977	Spectrum Type	STANDARD
Sweep Width (Hz)	89284.35	Temperature (degree C)	21.700				

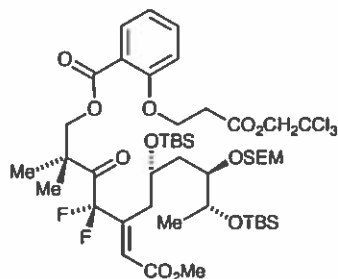
PRM185-F{H}NMR.exp



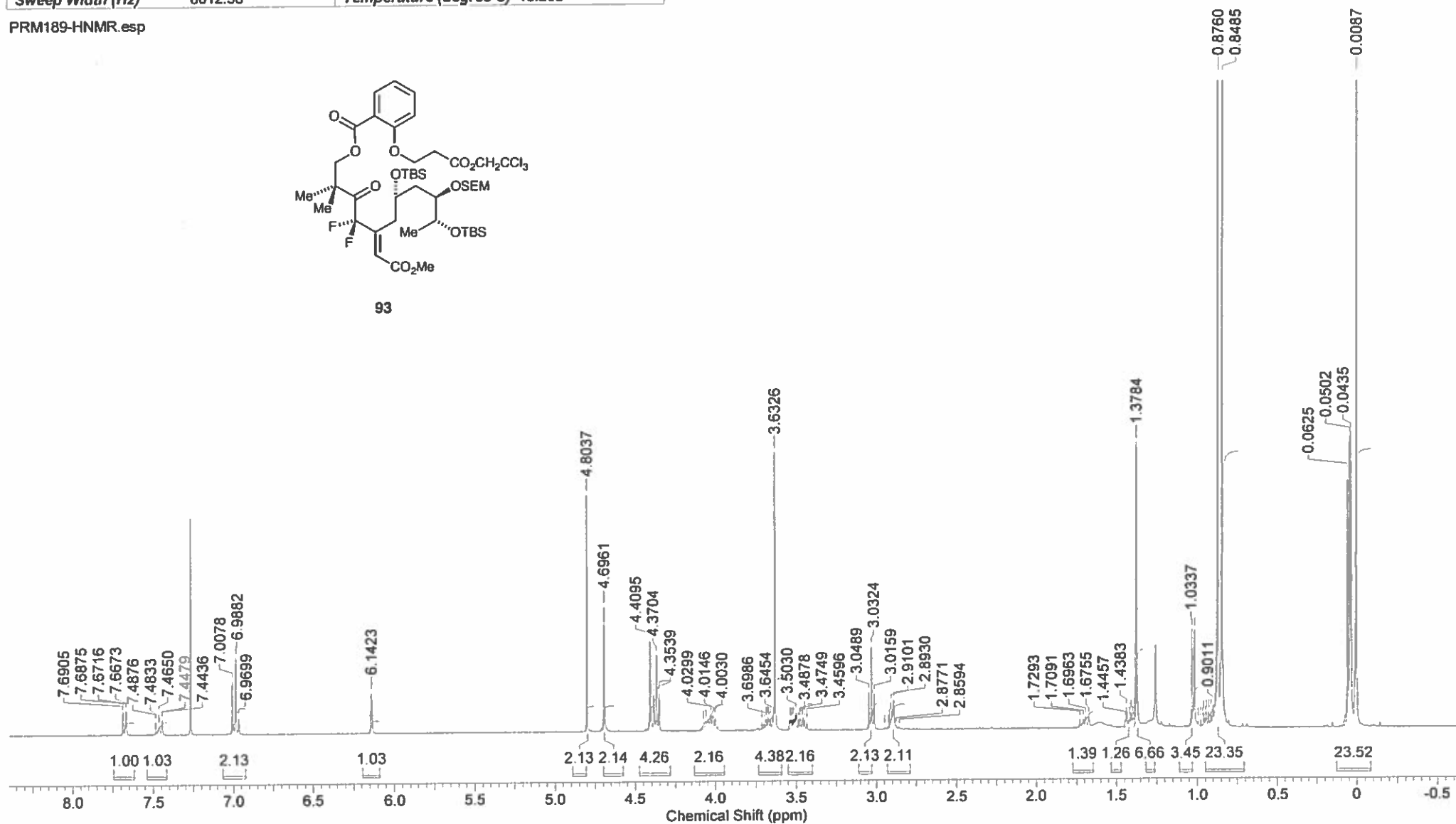
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This report was created by ACD/NAME 1 PROCESSOR Academic Edition 1.01. More information go to: <a href="#">http://www.acdname.com</a>							
Acquisition Time (sec)	4.0894	Comment	EJT-PRM189 f3-15 16mg mPROTON_A CDCl3 (e:\bruk400cdata\2015Jul)\ejt_32				
Date	05 Aug 2015 12:46:08	Date Stamp	05 Aug 2015 12:46:08				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015Jul\data\ejt_32\10vid				Frequency (MHz)	400.07	
Nucleus	<sup>1</sup> H	Number of Transients	4	Origin	spect	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30	Receiver Gain	161.00
SW(cyclical) (Hz)	8012.82	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	1894.3132	Spectrum Type	STANDARD
Sweep Width (Hz)	8012.58	Temperature (degree C)	18.208				

PRM189-HNMR.esp



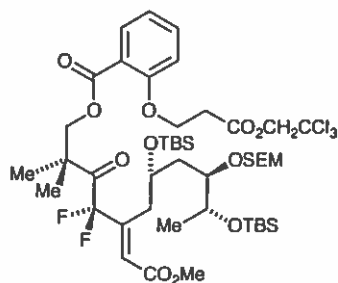
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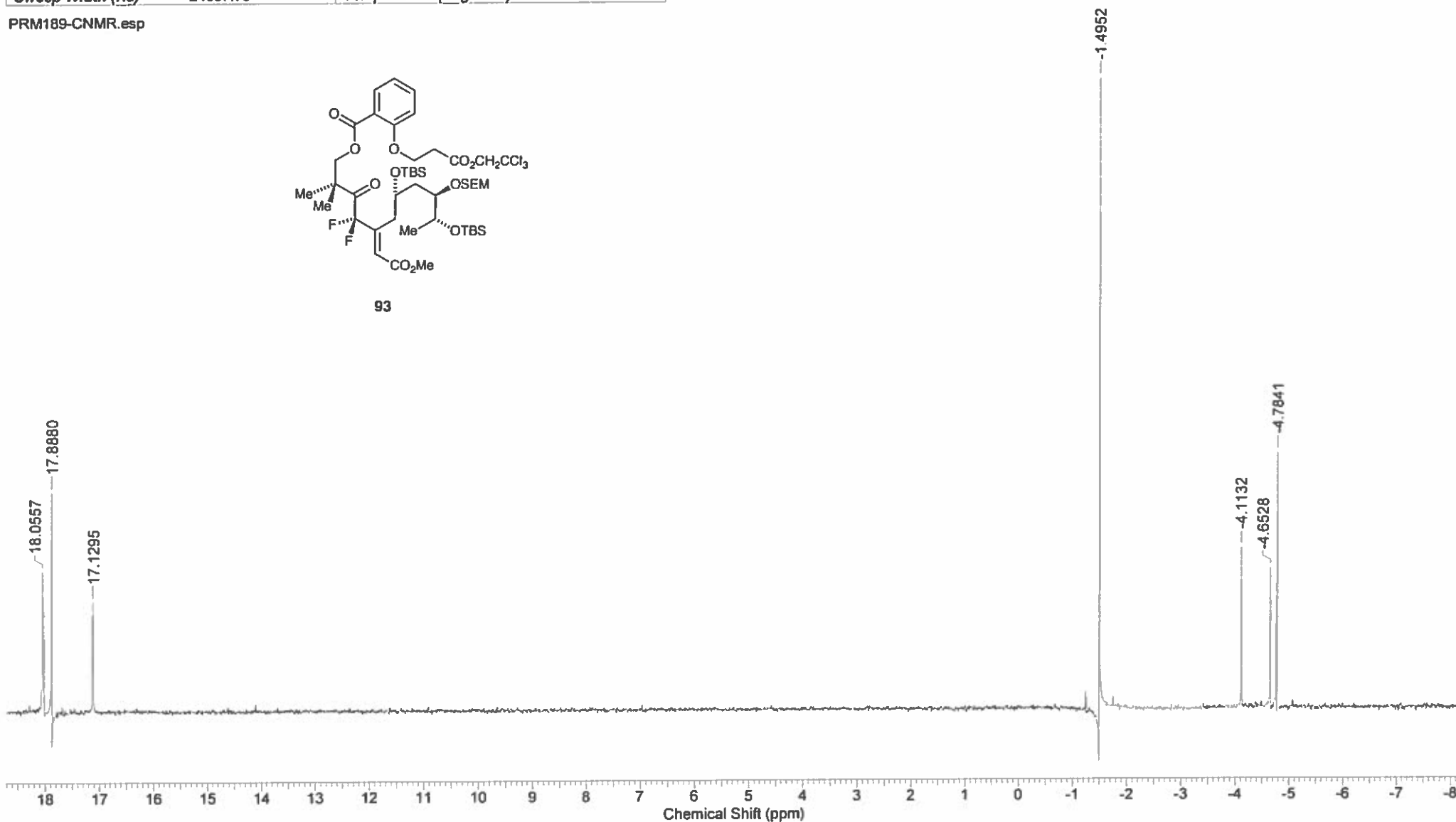
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Acquisition Time (sec)	1.3631	Comment	EJT-PRM189 prod mCARBON_A CDCl3 (e:\bruk400cdata\2015\Aug)\ejt-54				
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Nucleus	13C	Number of Transients	256	Origin	spect	Original Points Count	32768
Owner	nrmru	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	71.80
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10049.8672	Spectrum Type	STANDARD
Sweep Width (Hz)	24037.73	Temperature (degree C)	18.046				

PRM189-CNMR.esp



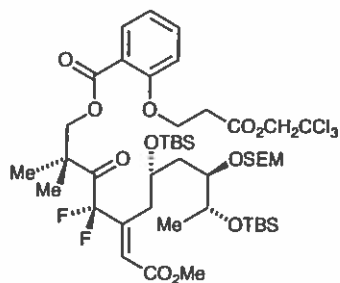
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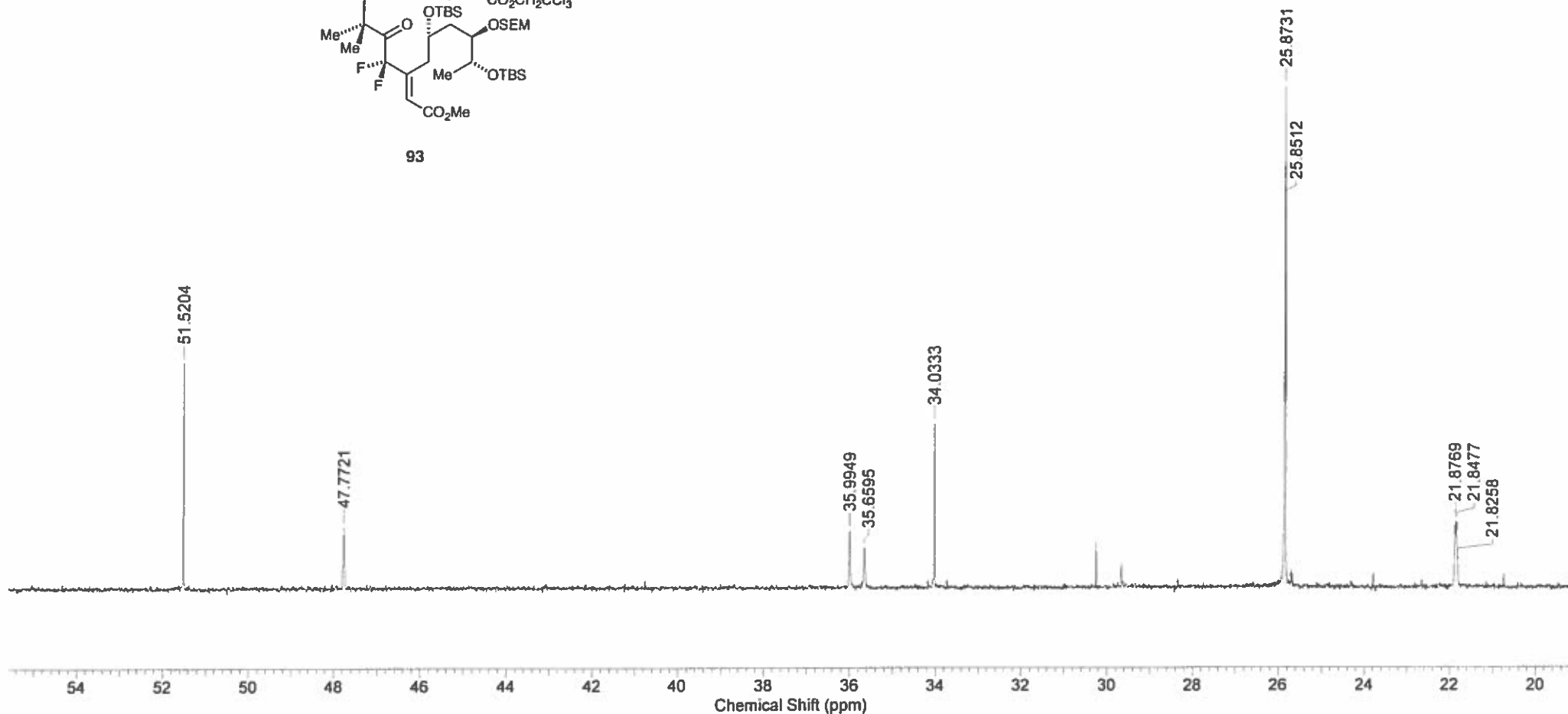
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.3631	Comment	EJT-PRM189 prod mCARBON_A CDCl3 (e:\bruk400cdata\2015\Aug)\ejt 54				
Date	20 Aug 2015 16:00:16		Date Stamp	20 Aug 2015 16:00:16			
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Nucleus	13C	Number of Transients	256	Origin	spect	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	71.80
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10049.8672	Spectrum Type	STANDARD
Sweep Width (Hz)	24037.73	Temperature (degree C)	18.046				

PRM189-CNMR.esp



93

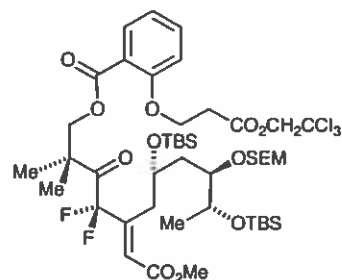




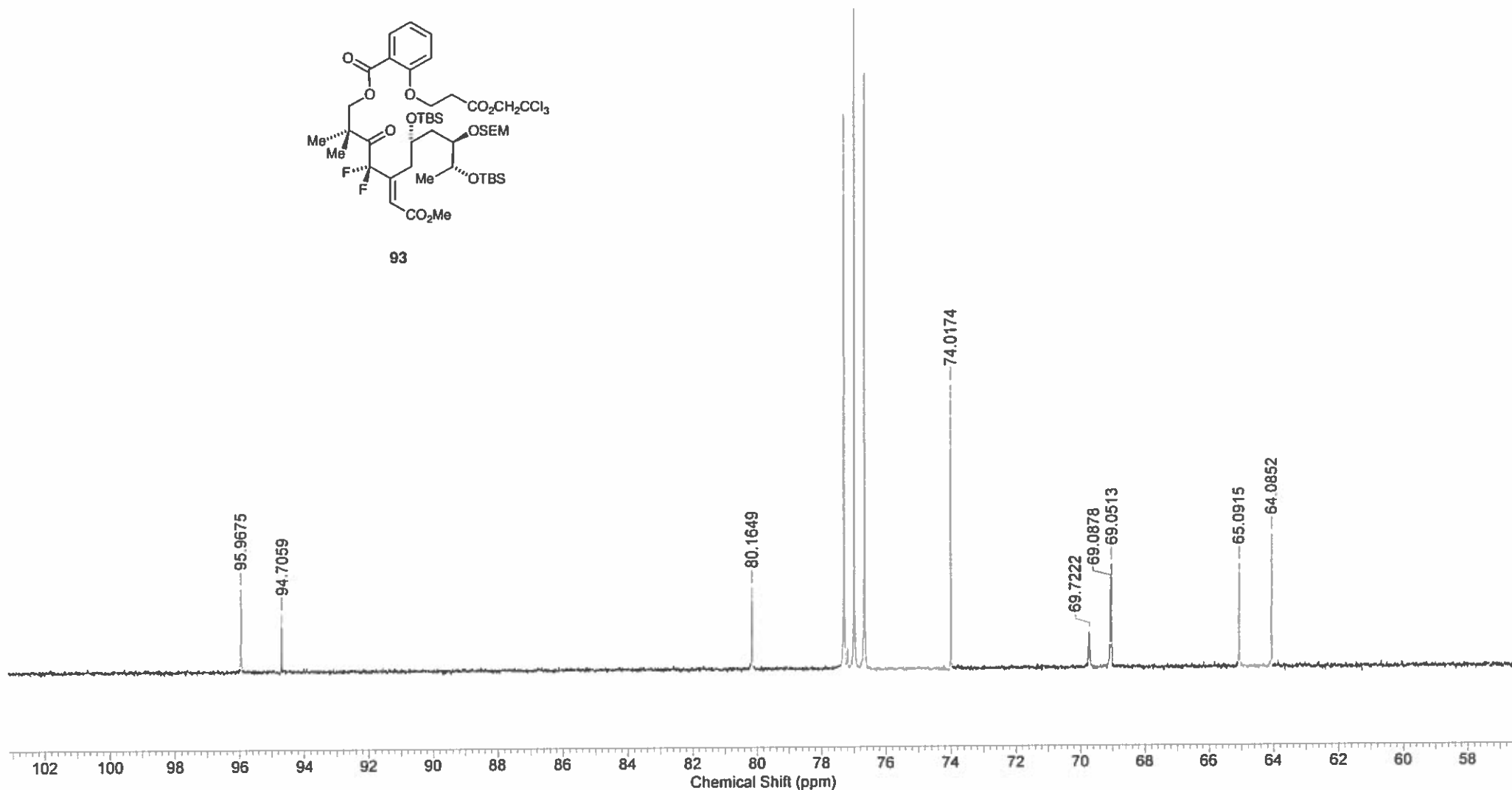
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Acquisition Time (sec)	1.3631	Comment	EJT-PRM189 prod mCARBON_A CDCl3 (e:\bruk400cdata\2015\Aug) ejt 54				
Date	20 Aug 2015 16:00:16	Date Stamp	20 Aug 2015 16:00:16				
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Nucleus	13C	Number of Transients	256	Origin	spect	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	71.80
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10049.8672	Spectrum Type	STANDARD
Sweep Width (Hz)	24037.73	Temperature (degree C)	18.046				

PRM189-CNMR.esp



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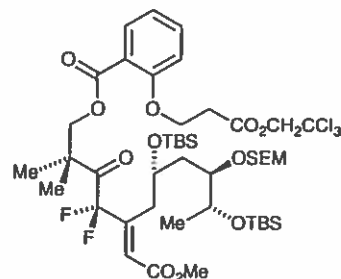


This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

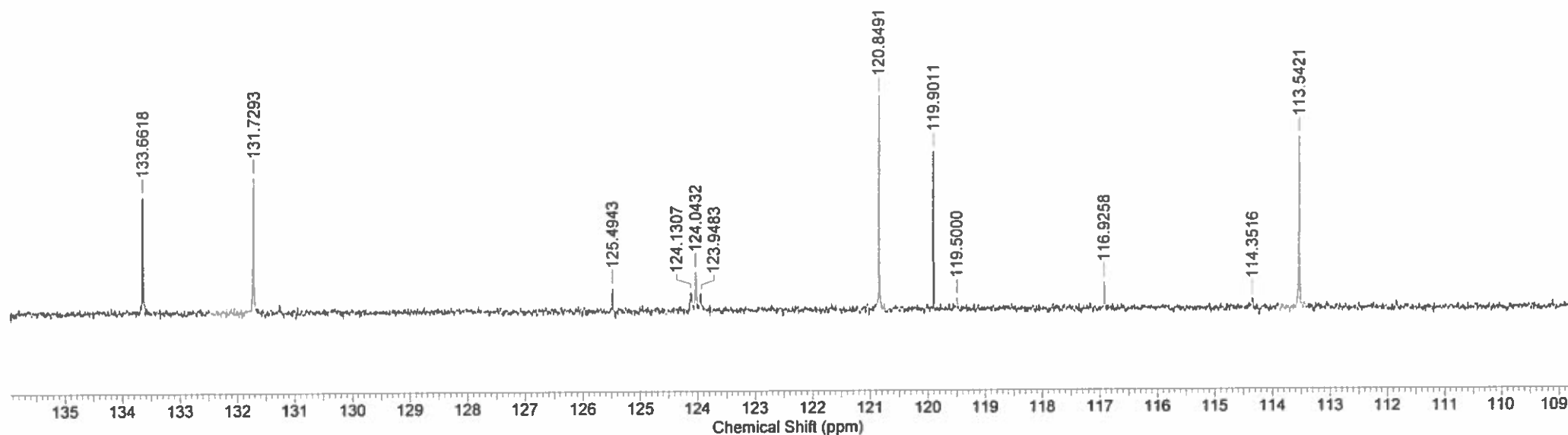
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Acquisition Time (sec)	1.3631	Comment	EJT-PRM189 prod mCARBON_A CDCl3 (e:\bruk400cdata\2015\Aug) ejt 54				
Date	20 Aug 2015 16:00:16	Date Stamp	20 Aug 2015 16:00:16				
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015\Aug\data\ejt\nmr\2015-08-20-ejt-54\111\fid					Frequency (MHz)	100.60
Nucleus	13C	Number of Transients	256	Origin	spect	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	71.80
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10049.8672	Spectrum Type	STANDARD
Sweep Width (Hz)	24037.73	Temperature (degree C)	18.046				

PRM189-CNMR.esp



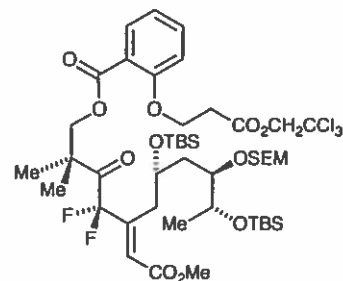
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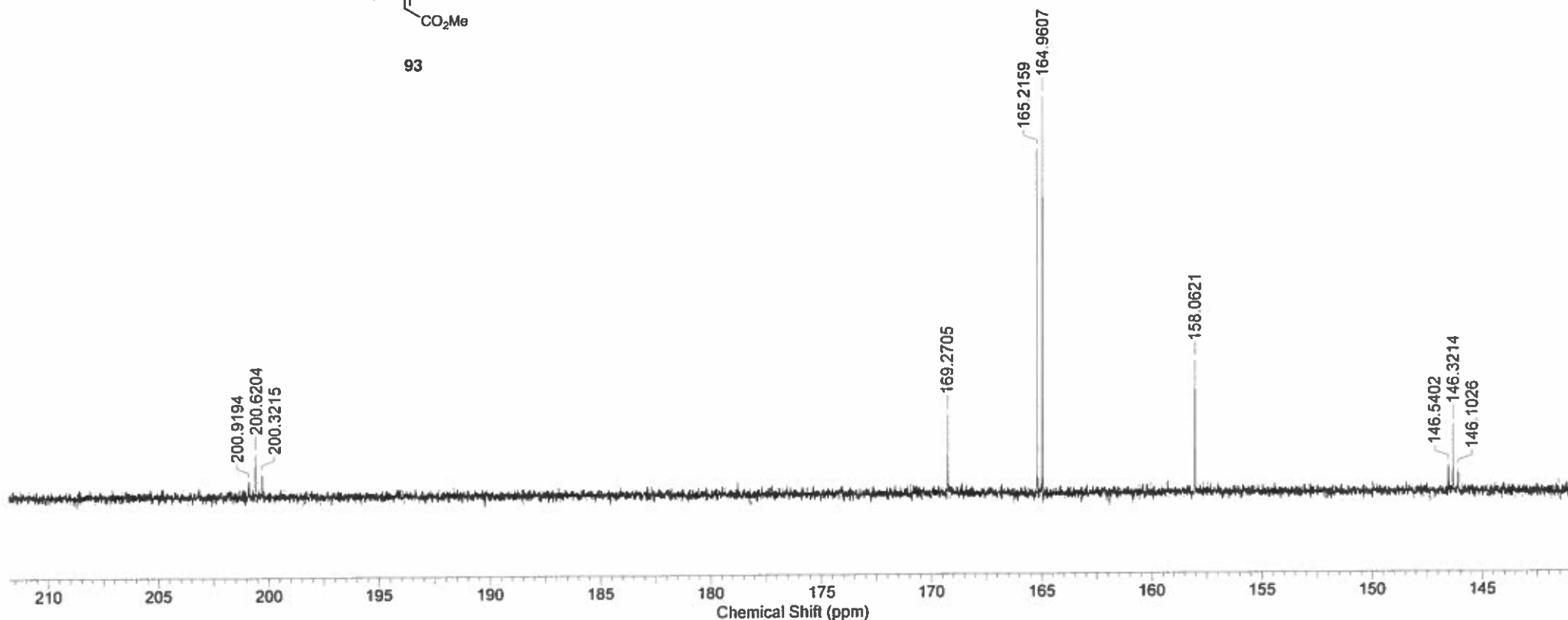
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.3631	Comment	EJT-PRM189 prod mCARBON_A CDCl3 {e:\bruk400cdata\2015\Aug} ejt 54		
Date	20 Aug 2015 16:00:16	Date Stamp	20 Aug 2015 16:00:16		
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015\Aug\data\ejt\nmr\2015-08-20-ejt-54\11\fid			Frequency (MHz)	100.60
Nucleus	13C	Number of Transients	256	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Receiver Gain	71.80
Sweep Width (Hz)	24037.73	Temperature (degree C)	18.046	Spectrum Offset (Hz)	10049.8672
				Spectrum Type	STANDARD

PRM189-CNMR.esp



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EJT-PRM189 f3-15 16mg

mF19\_cryo\_zgbs CDCl3 {e:\bruk400cdata\2015\Jul}\ejt-32

-100.8  
-101.8  
-101.9  
-101.9  
-101.8  
-101.7  
-102.2

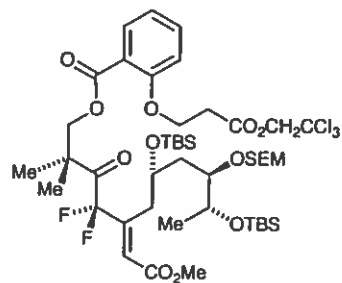


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EXPNO 11  
PROCNO 1

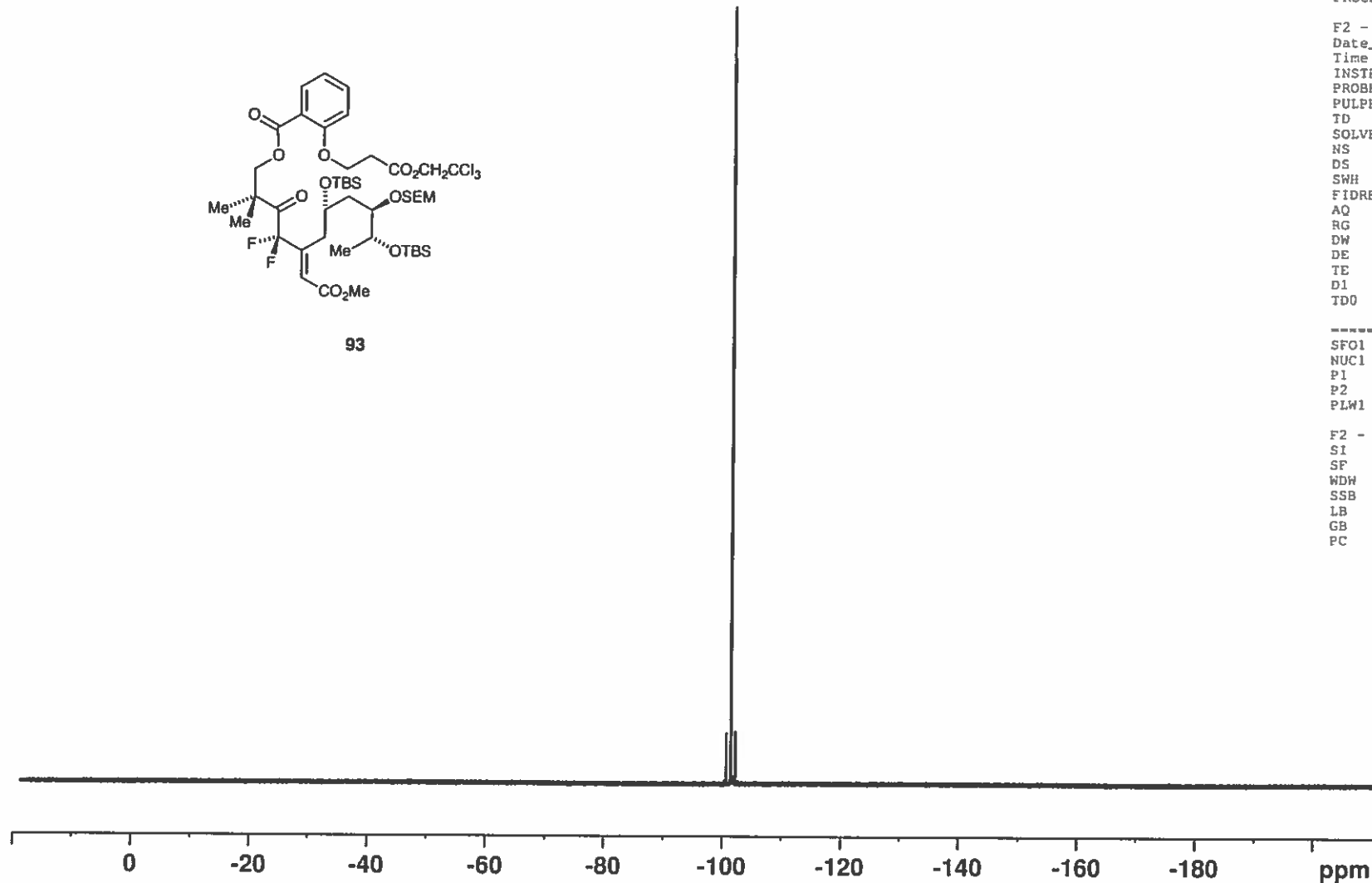
F2 - Acquisition Parameters  
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Time 12.50  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgbs  
TD 131072  
SOLVENT CDCl3  
NS 16  
DS 4  
SWH 89285.711 Hz  
FIDRES 0.681196 Hz  
AQ 0.7340032 sec  
RG 7.12  
DW 5.600 usec  
DE 18.83 usec  
TE 291.2 K  
D1 1.00000000 sec  
TD0 1

----- CHANNEL f1 -----  
SFO1 376.4042649 MHz  
NUC1 19F  
P1 15.00 usec  
P2 30.00 usec  
PLW1 3.79999995 W

F2 - Processing parameters  
SI 262144  
SF 376.4419098 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 2.00



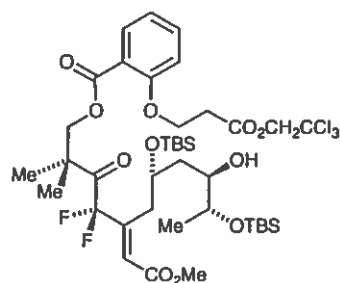
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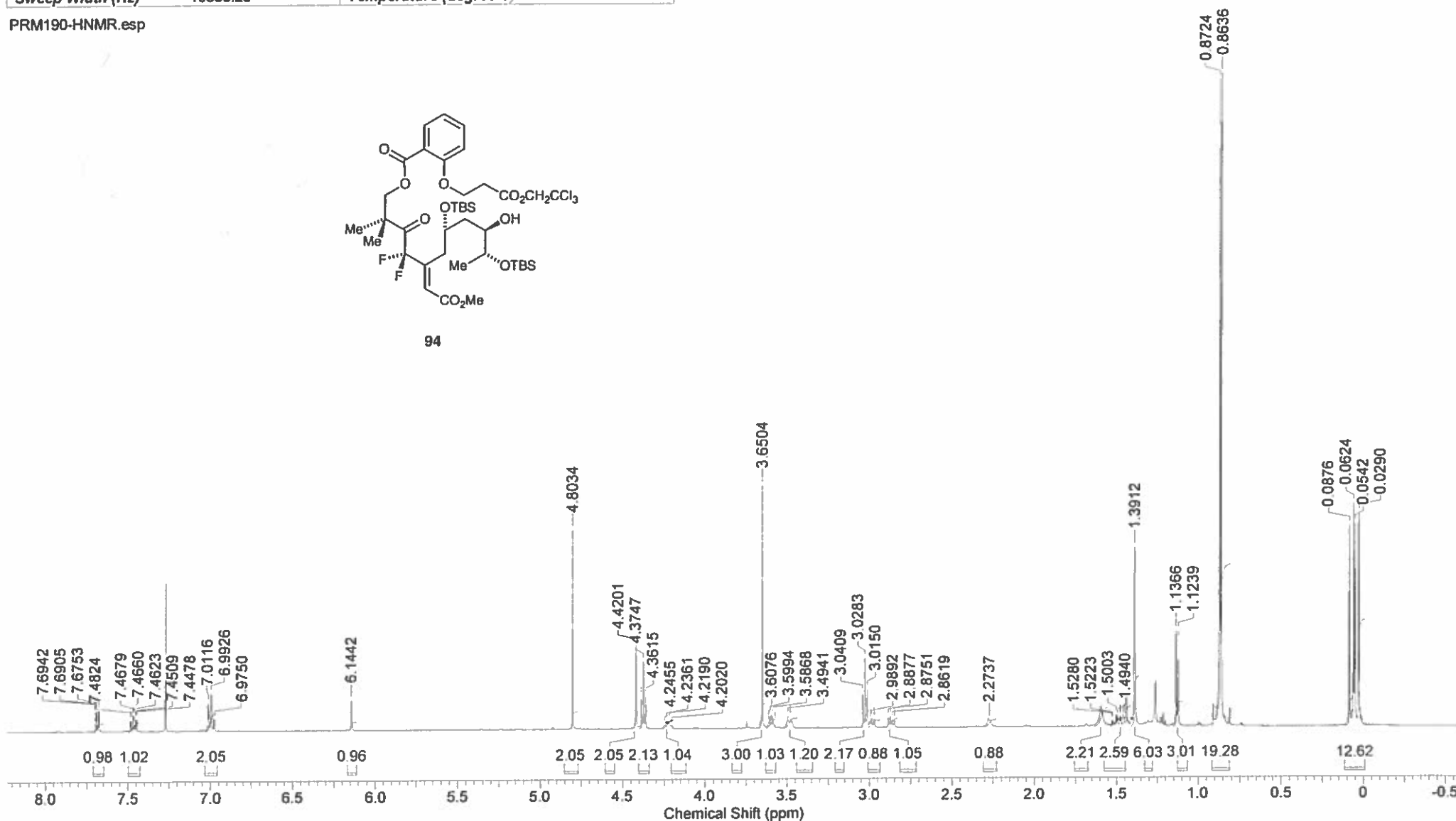
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	3.1719	Comment	EJT-PRM190 f7-19 11mg mPROTON CDCl3 (E:\bruk500adata\2015\Aug)\ejt 43		
Date	13 Aug 2015 14:17:52	Date Stamp	13 Aug 2015 14:17:52		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500adata\2015\Aug\data\ejt\nmr\2015-08-13-ejt-43\10\PDATA\111r			Frequency (MHz)	500.13
Nucleus	1H	Number of Transients	16	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zg30
SW (cyclical) (Hz)	10330.58	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	3081.2380
Sweep Width (Hz)	10330.26	Temperature (degree C)	25.000	Spectrum Type	STANDARD

PRM190-HNMR.esp



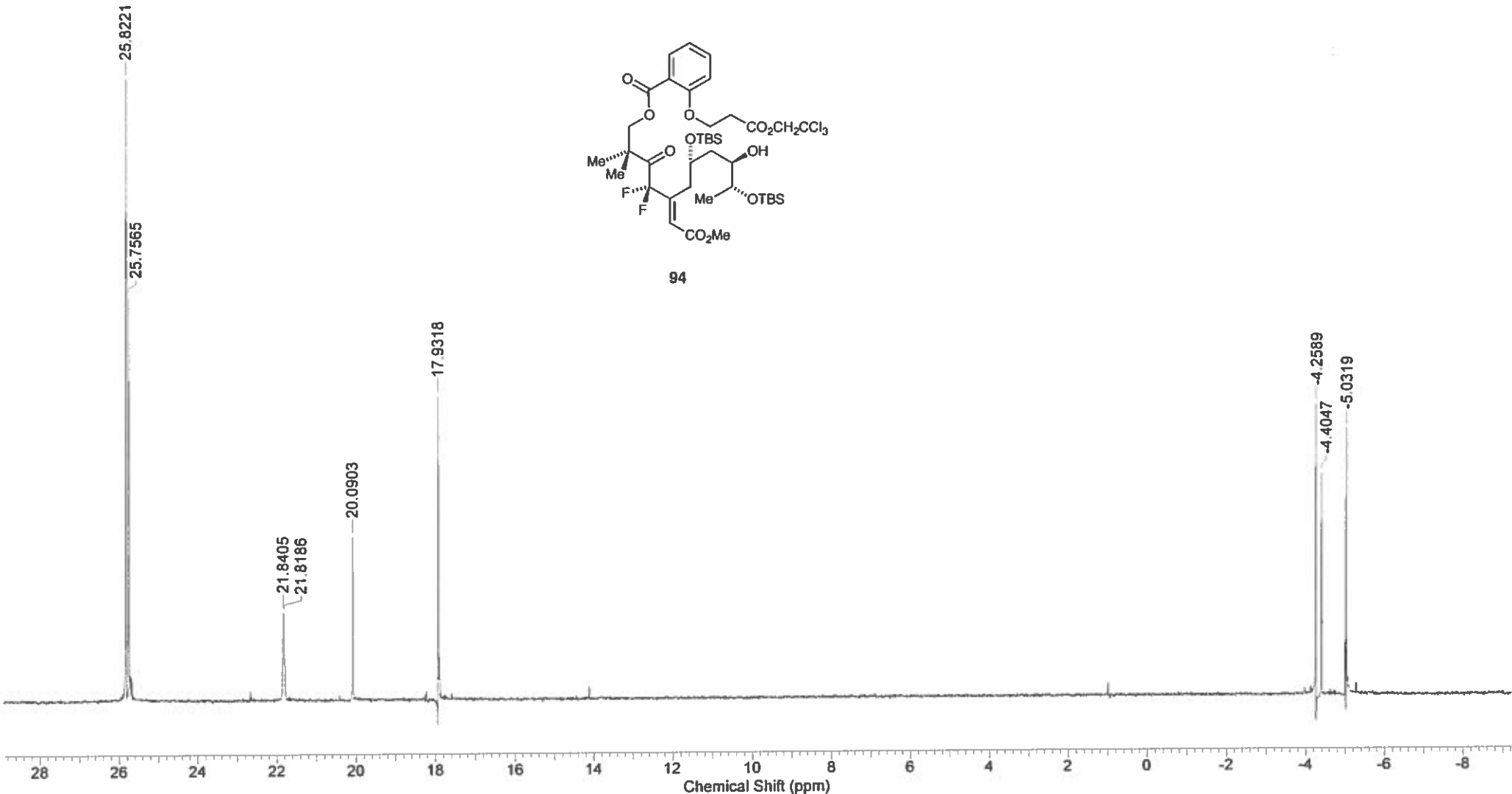
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Acquisition Time (sec)	1.3631	Comment	EJT-PRM190 f13-46 54mg mCARBON_B CDCI3 (e:\bruk400\data\2015\Aug) ejt 6				
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File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmr\data\bruk400\data\2015\Aug\data\ejt\nmr\2015-08-21-ejt-6\21vid		Frequency (MHz)	100.60			
Nucleus	13C	Number of Transients	1000	Origin	spect	Original Points Count	32768
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	45.20
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10049.8789	Spectrum Type	STANDARD
Sweep Width (Hz)	24037.73	Temperature (degree C)	18.170				

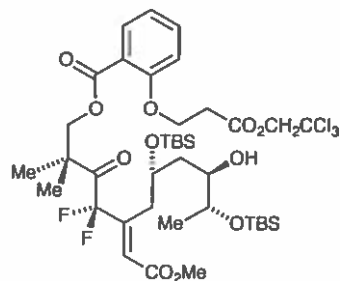
PRM190-CNMR.esp



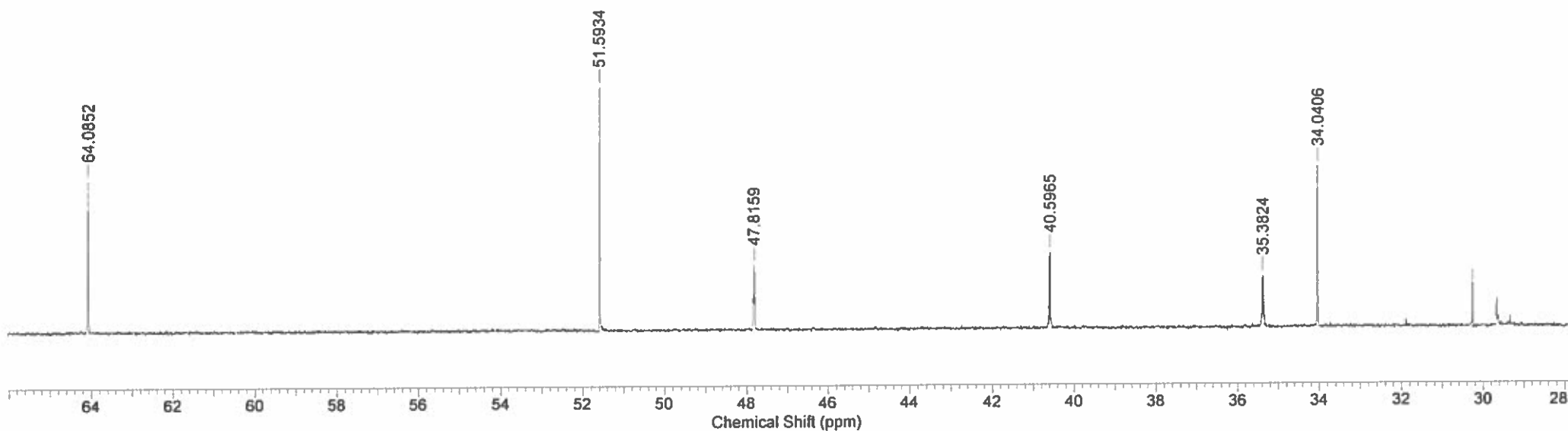
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.3631	Comment	EJT-PRM190 f13-46 54mg mCARBON_B CDCl3 (e:\bruk400cdata\2015\Aug) ejt 6				
Date	21 Aug 2015 22:58:24	Date Stamp	21 Aug 2015 22:58:24				
File Name	\\ss7a.ds.man.ac.uk\vol5\users\snmrdata\bruk400cdata\2015\Aug\data\ejt\nmr\2015-08-21-ejt-6\21\fid				Frequency (MHz)	100.60	
Nucleus	13C	Number of Transients	1000	Origin	spect	Original Points Count	32768
Owner	nmsu	Points Count	32768	Pulse Sequence	zgpg30	Receiver Gain	45.20
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10049.8789	Spectrum Type	STANDARD
Sweep Width (Hz)	24037.73	Temperature (degree C)	18.170				

PRM190-CNMR.esp



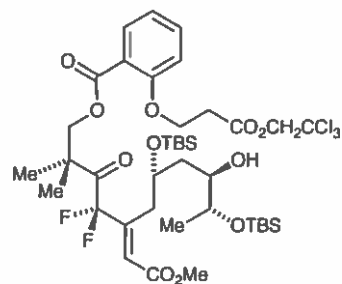
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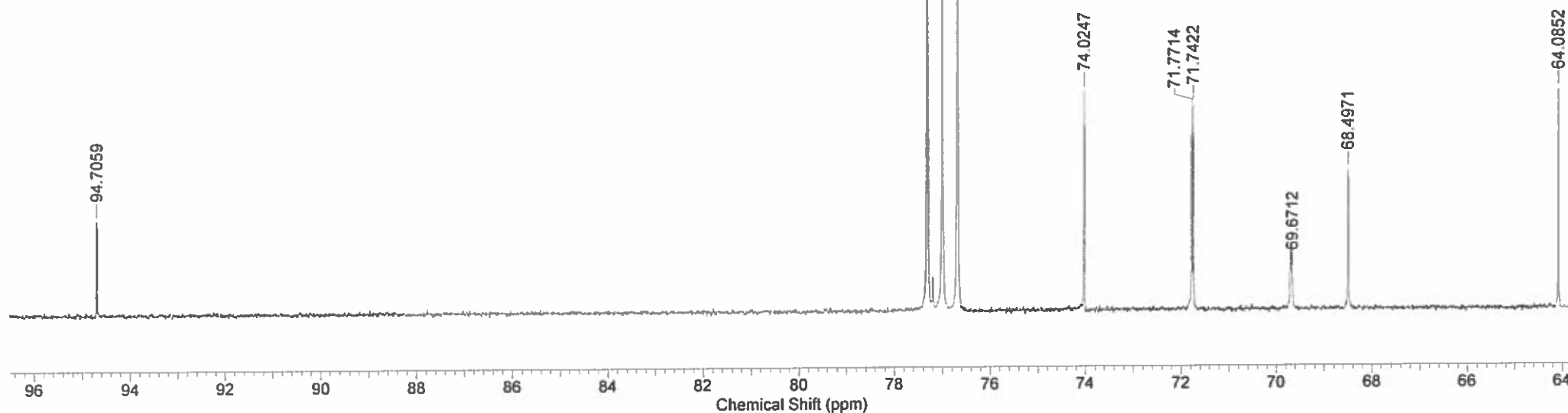
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.3631	Comment	EJT-PRM190 f13-46 54mg mCARBON B CDCl3 (e:\bruk400cdata\2015\Aug) ejt 6		
Date	21 Aug 2015 22:58:24	Date Stamp	21 Aug 2015 22:58:24		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015\Aug\data\ejt\nmr\2015-08-21-ejt-6\21\fid	Frequency (MHz)	100.60		
Nucleus	13C	Number of Transients	1000	Origin	spect
Owner	nmsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Receiver Gain	45.20
Sweep Width (Hz)	24037.73	Temperature (degree C)	18.170	Spectrum Offset (Hz)	10049.8789
				Spectrum Type	STANDARD

PRM190-CNMR.esp



94

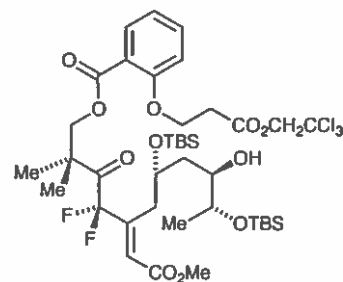




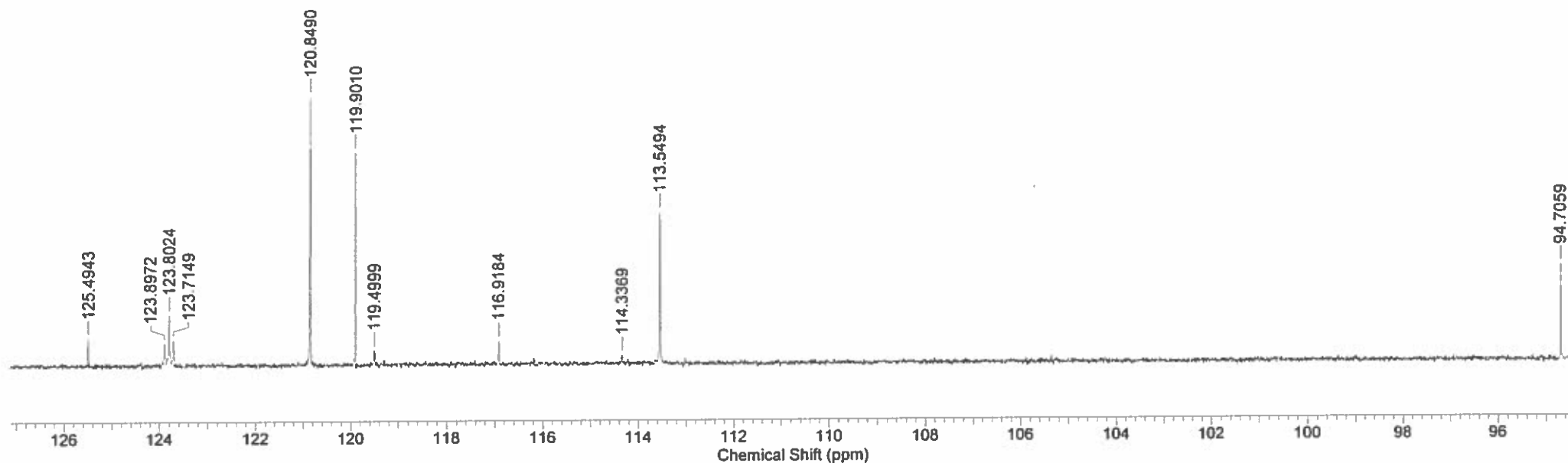
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.3631	Comment	EJT-PRM190 f13-46 54mg mCARBON_B CDCl3 (e:\bruk400cdata\2015\Aug)\ejt 6		
Date	21 Aug 2015 22:58:24	Date Stamp	21 Aug 2015 22:58:24		
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015\Aug\data\ejt\nmr\2015-08-21-ejt-6\21fid			Frequency (MHz)	100.60
Nucleus	13C	Number of Transients	1000	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10049.8789
Sweep Width (Hz)	24037.73	Temperature (degree C)	18.170	Spectrum Type	STANDARD

PRM190-CNMR.esp



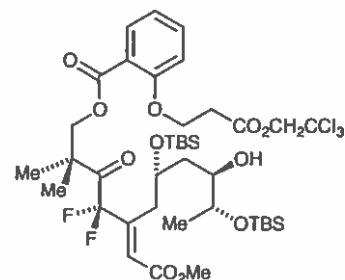
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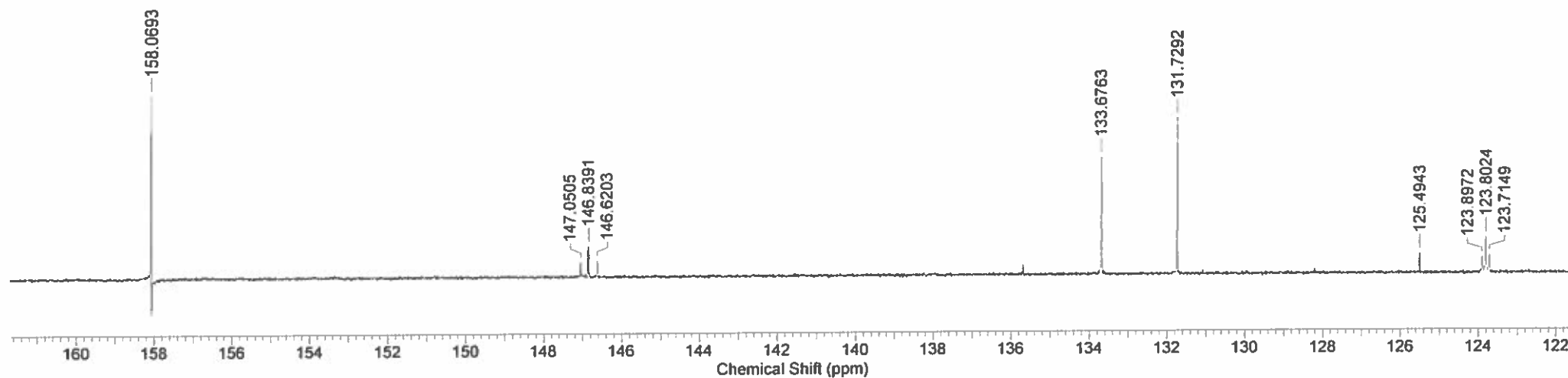
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.3631	Comment	EJT-PRM190 f13-46 54mg mCARBON B CDCl3 (e:\bruk400cdata\2015\Aug) ejt 6		
Date	21 Aug 2015 22:58:24	Date Stamp	21 Aug 2015 22:58:24		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015\Aug\data\ejt\nmr\2015-08-21-ejt-6\21.fid			Frequency (MHz)	100.60
Nucleus	13C	Number of Transients	1000	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	10049.8789
Sweep Width (Hz)	24037.73	Temperature (degree C)	18.170	Receiver Gain	45.20
				Spectrum Type	STANDARD

PRM190-CNMR.esp



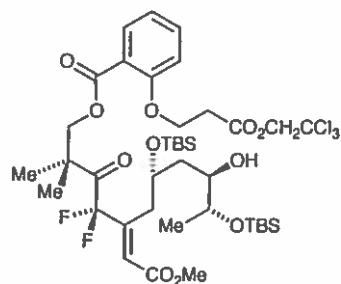
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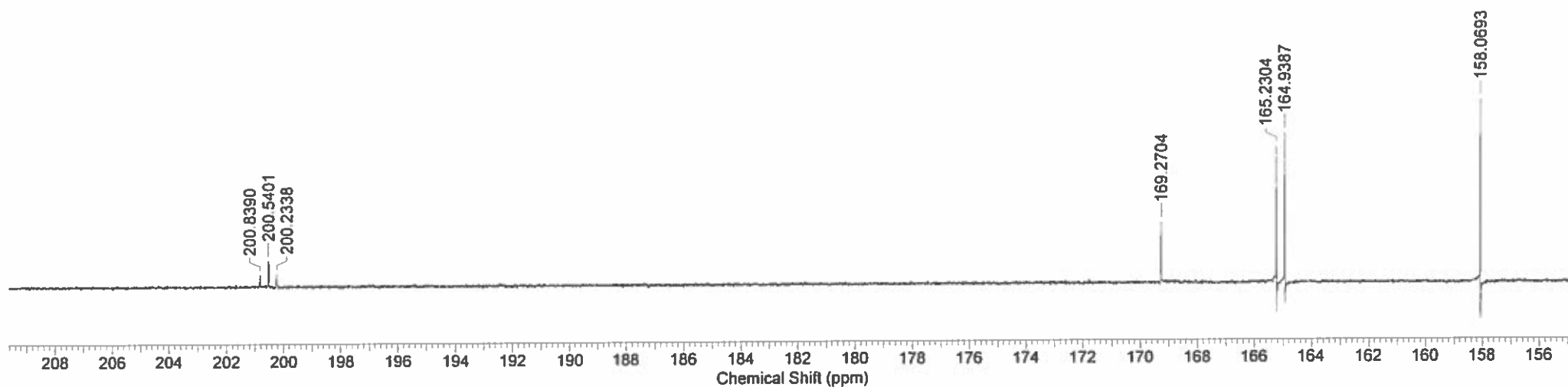
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	1.3631	Comment	EJT-PRM190 f13-46 54mg mCARBON_B CDCl3 (e:\bruk400cdata\2015\Aug) ejt 6		
Date	21 Aug 2015 22:58:24	Date Stamp	21 Aug 2015 22:58:24		
File Name	\\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015\Aug\data\ejt\nmr\2015-08-21-ejt-6\21fid	Frequency (MHz)	100.60		
Nucleus	13C	Number of Transients	1000	Origin	spect
Owner	nmrsu	Points Count	32768	Pulse Sequence	zgpg30
SW(cyclical) (Hz)	24038.46	Solvent	CHLOROFORM-d	Receiver Gain	45.20
Sweep Width (Hz)	24037.73	Temperature (degree C)	18.170	Spectrum Offset (Hz)	10049.8789
				Spectrum Type	STANDARD

PRM190-CNMR.esp



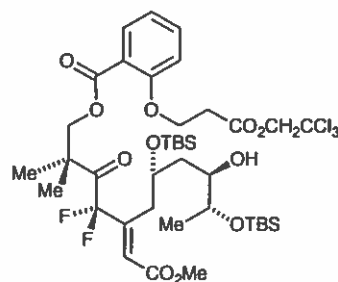
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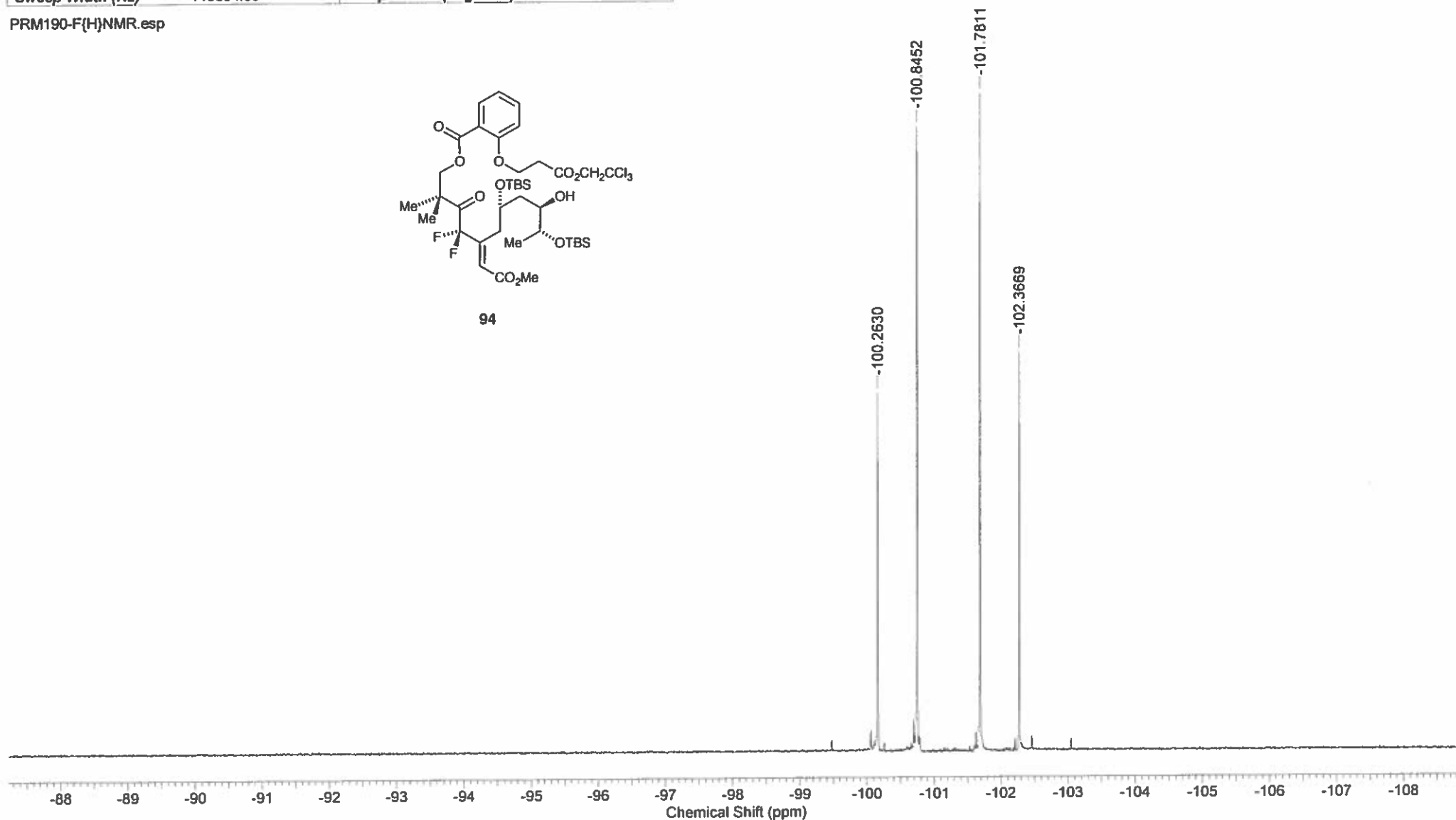
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	0.5767	Comment	EJT-PRM190 f7-19 11mg m19FCPD CDCI3 (E:\bruk500adata\2015\Aug) ejt 43		
Date	13 Aug 2015 14:32:48	Date Stamp	13 Aug 2015 14:32:48		
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk500adata\2015\Aug\data\ejt\nmr\2015-08-13-ejt-43\13\fid			Frequency (MHz)	470.59
Nucleus	19F	Number of Transients	16	Origin	spect
Owner	nmrsu	Points Count	65536	Pulse Sequence	zgfhigqn
SW(cyclical) (Hz)	113636.37	Solvent	CHLOROFORM-d	Spectrum Offset (Hz)	-47059.0234
Sweep Width (Hz)	113634.63	Temperature (degree C)	25.000	Receiver Gain	575.00
				Spectrum Type	STANDARD

PRM190-F{H}NMR.esp



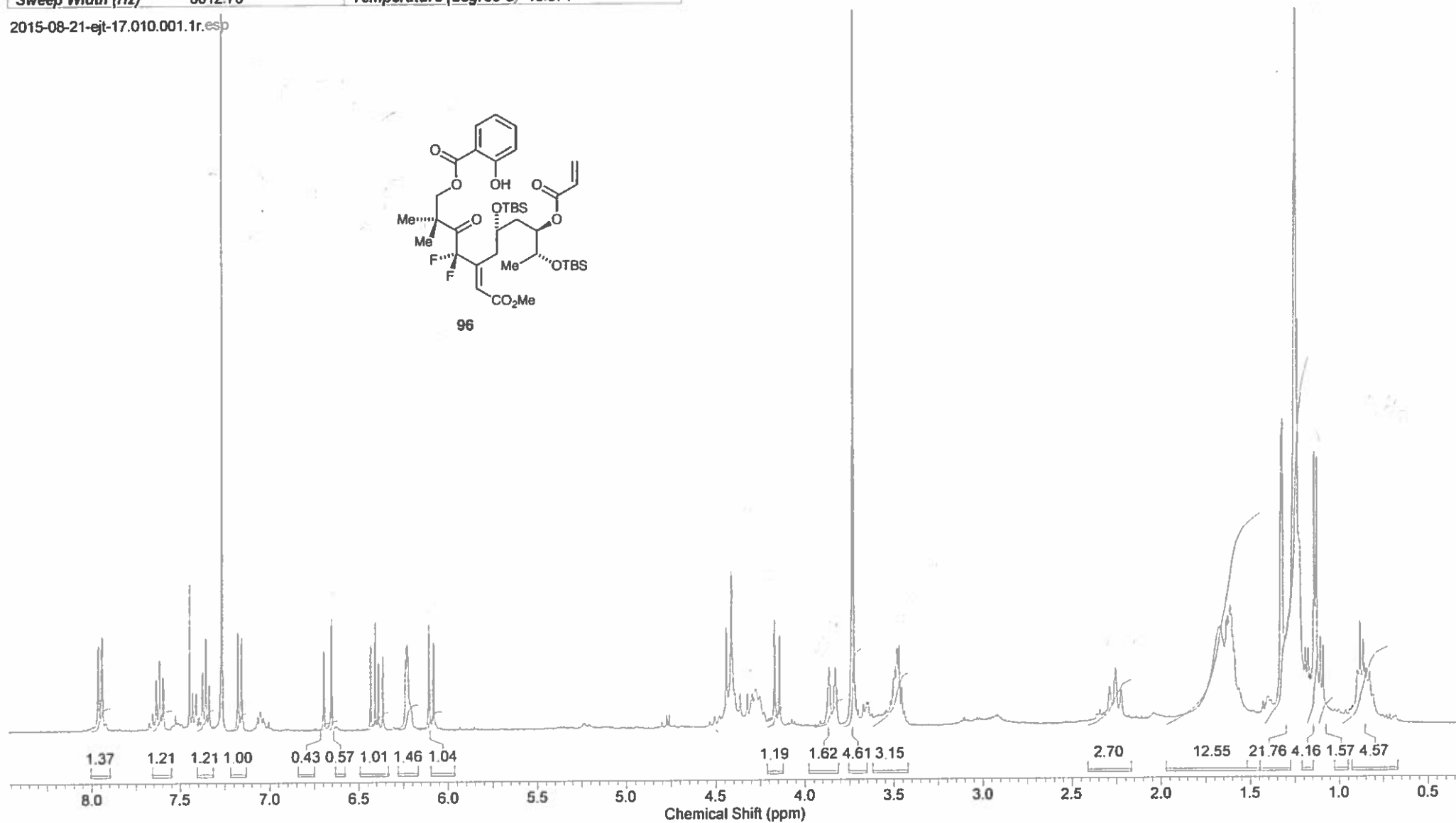
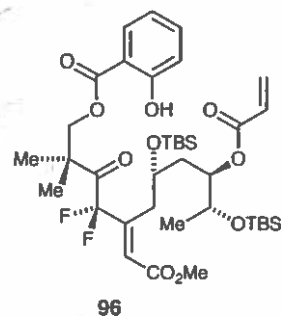
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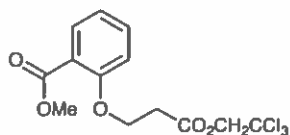
This report was created by ACD/NMR Processor Academic Edition. For more information go to [www.acdlabs.com/nmrproc/](http://www.acdlabs.com/nmrproc/)

Acquisition Time (sec)	4.0894	Comment	EJT-PRM193 f11-18 5mg chloroform mPROTON_A CDCl3 (e:\bruk400cdata\2015\Aug)\ejt 17		
Date	21 Aug 2015 15:56:00	Date Stamp	21 Aug 2015 15:56:00		
File Name	\ss7a.ds.man.ac.uk\vol5\vol3\users\snmrdata\bruk400cdata\2015\Aug\data\ejt\nmr\2015-08-21-ejt-17\10\PDAT1\11r			Frequency (MHz)	400.07
Nucleus	1H	Number of Transients	4	Origin	spect
Owner	nmrsu	Points Count	65536	Pulse Sequence	zg30
SW(cyclical) (Hz)	8012.82	Solvent	CHLOROFORM-d	Receiver Gain	203.00
Sweep Width (Hz)	8012.70	Temperature (degree C)	18.371	Spectrum Offset (Hz)	1894.6188
				Spectrum Type	STANDARD

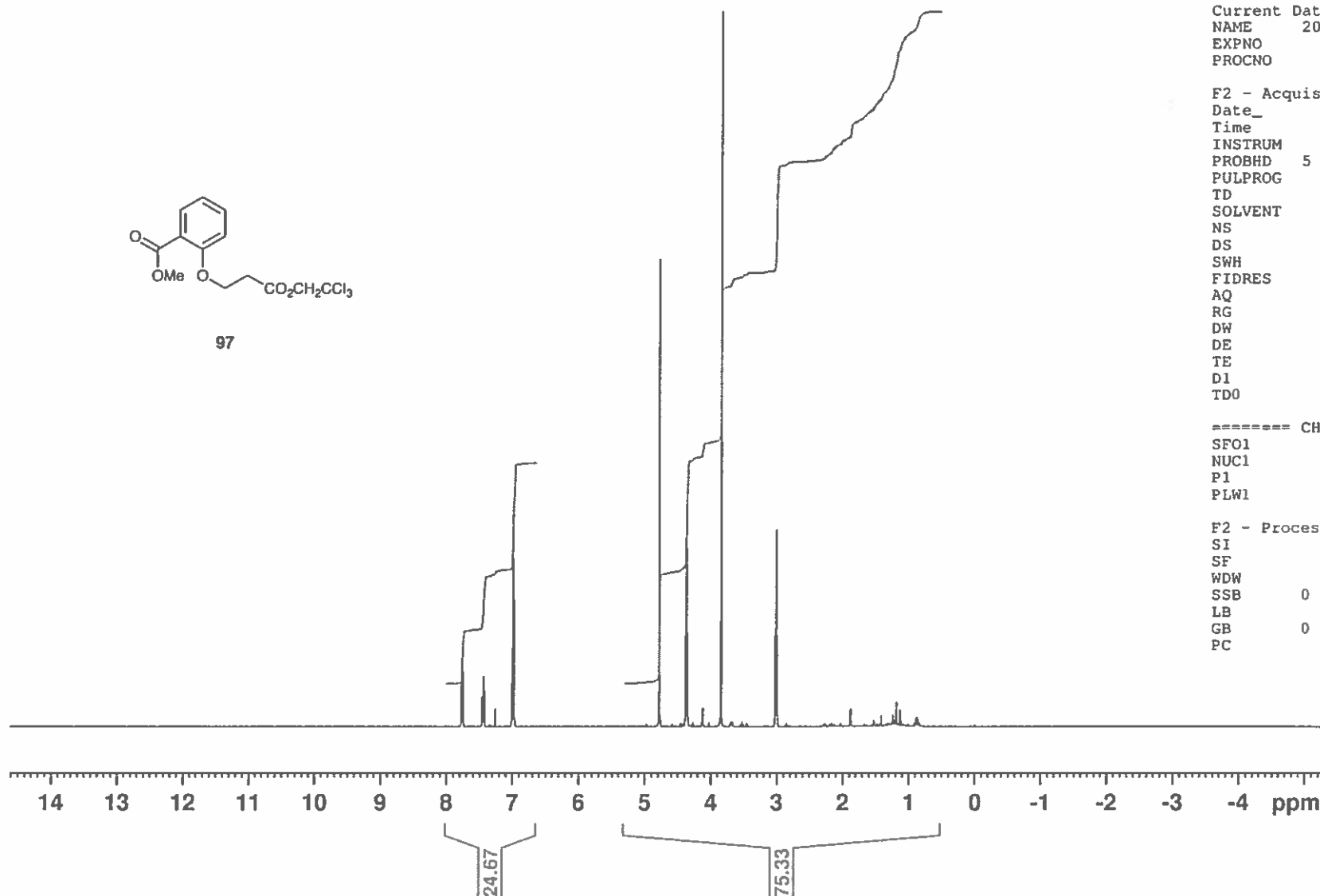
2015-08-21-ejt-17.010.001.1r.esp



EJT-PRM186 f19-32 155mg  
mPROTON\_A CDCl3 {e:\bruk400cdata\2015\Jul} ejt 44



97



Current Data Parameters  
NAME 2015-07-29-ejt-44  
EXPNO 10  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20150729  
Time 10.57  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 4  
DS 2  
SWH 8012.820 Hz  
FIDRES 0.122266 Hz  
AQ 4.0894465 sec  
RG 32  
DW 62.400 usec  
DE 10.00 usec  
TE 290.5 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
SFO1 400.0719003 MHz  
NUC1 1H  
P1 12.00 usec  
PLW1 7.40000010 W

F2 - Processing parameters  
SI 65536  
SF 400.0700087 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

EJT-PRM186 f19-32 155mg

mCARBON\_A CDC13 (g:\bruk400\data\2015 Jul) ejt 44



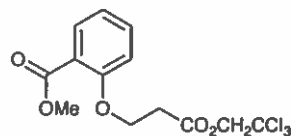
Current Data Parameters  
NAME 2015-07-29-ejt-44  
EXPNO 12  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20150729  
Time 11.09  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDC13  
NS 128  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 71.8  
DW 20.800 usec  
DE 41.77 usec  
TE 290.5 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

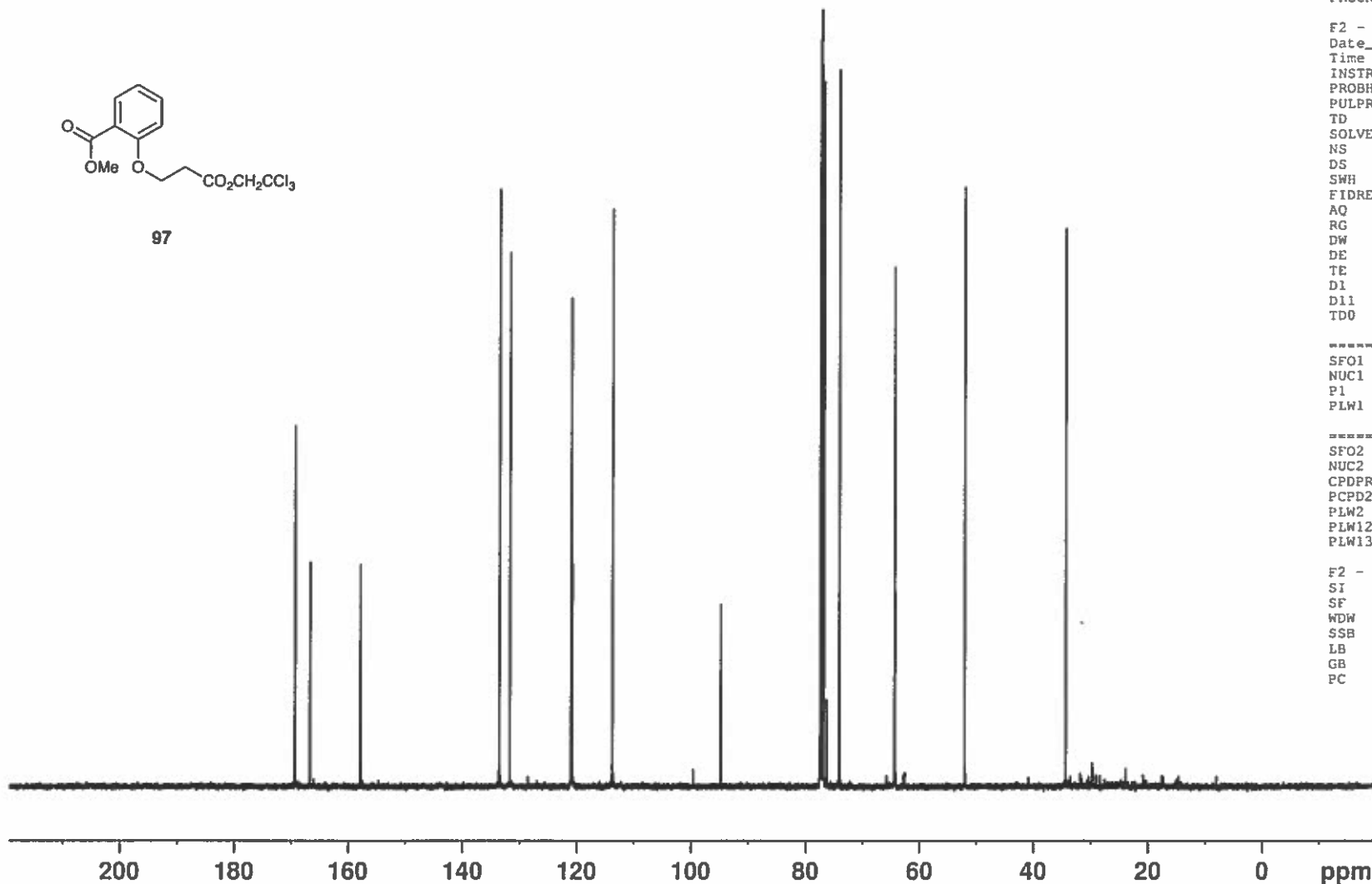
===== CHANNEL f1 =====  
SFO1 100.6077379 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

===== CHANNEL f2 =====  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRG2 waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

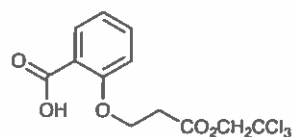
F2 - Processing parameters  
SI 32768  
SF 100.5976815 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



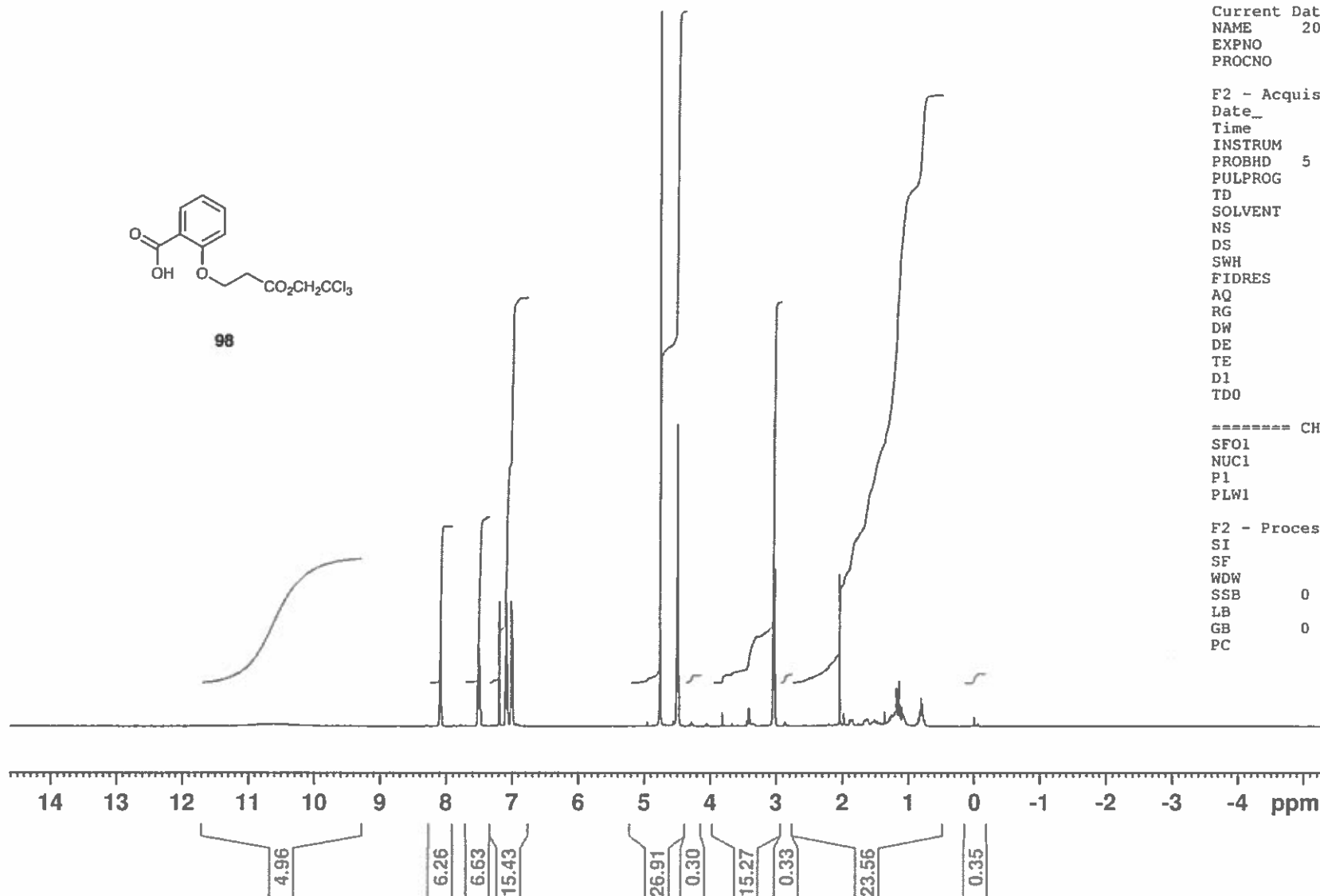
97



EJT-PRM187 f22-29 14mg  
mPROTON\_A CDCI3 {e:\bruk400cdata\2015\Jul} ejt 21



98



Current Data Parameters  
NAME 2015-07-31-ejt-21  
EXPNO 10  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20150731  
Time 11.22  
INSTRUM spect  
PROBHD 5 mm CPPBBO BB  
PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 4  
DS 2  
SWH 8012.820 Hz  
FIDRES 0.122266 Hz  
AQ 4.0894465 sec  
RG 203  
DW 62.400 usec  
DE 10.00 usec  
TE 290.5 K  
D1 1.00000000 sec  
TD0 1

===== CHANNEL f1 =====  
SF01 400.0719003 MHz  
NUC1 1H  
P1 12.00 usec  
PLW1 7.40000010 W

F2 - Processing parameters  
SI 65536  
SF 400.0700350 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00



EJT-PRM187 f22-29 14mg  
mCARBON\_A CDCl3 (e:\bruk400\data\2015\jul) ejt 21



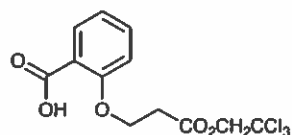
Current Data Parameters  
NAME 2015-07-31-ejt-21  
EXPNO 11  
PROCNO 1

F2 - Acquisition Parameters  
Date\_ 20150731  
Time 11.27  
INSTRUM spect  
PROBHD 5 mm CPMBO BB  
PULPROG zgpg30  
TD 65536  
SOLVENT CDCl3  
NS 64  
DS 4  
SWH 24038.461 Hz  
FIDRES 0.366798 Hz  
AQ 1.3631488 sec  
RG 71.8  
DW 20.800 usec  
DE 41.77 usec  
TE 290.4 K  
D1 2.00000000 sec  
D11 0.03000000 sec  
TD0 1

===== CHANNEL f1 =====  
SFO1 100.6077379 MHz  
NUC1 13C  
P1 10.00 usec  
PLW1 33.00000000 W

===== CHANNEL f2 =====  
SFO2 400.0716003 MHz  
NUC2 1H  
CPDPRG[2] waltz16  
PCPD2 80.00 usec  
PLW2 7.40000010 W  
PLW12 0.17209999 W  
PLW13 0.11014000 W

F2 - Processing parameters  
SI 32768  
SF 100.5976815 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40



98

