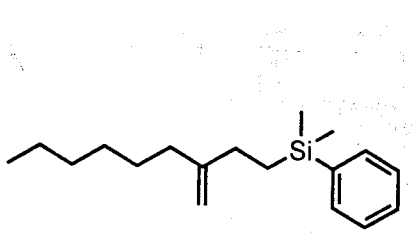
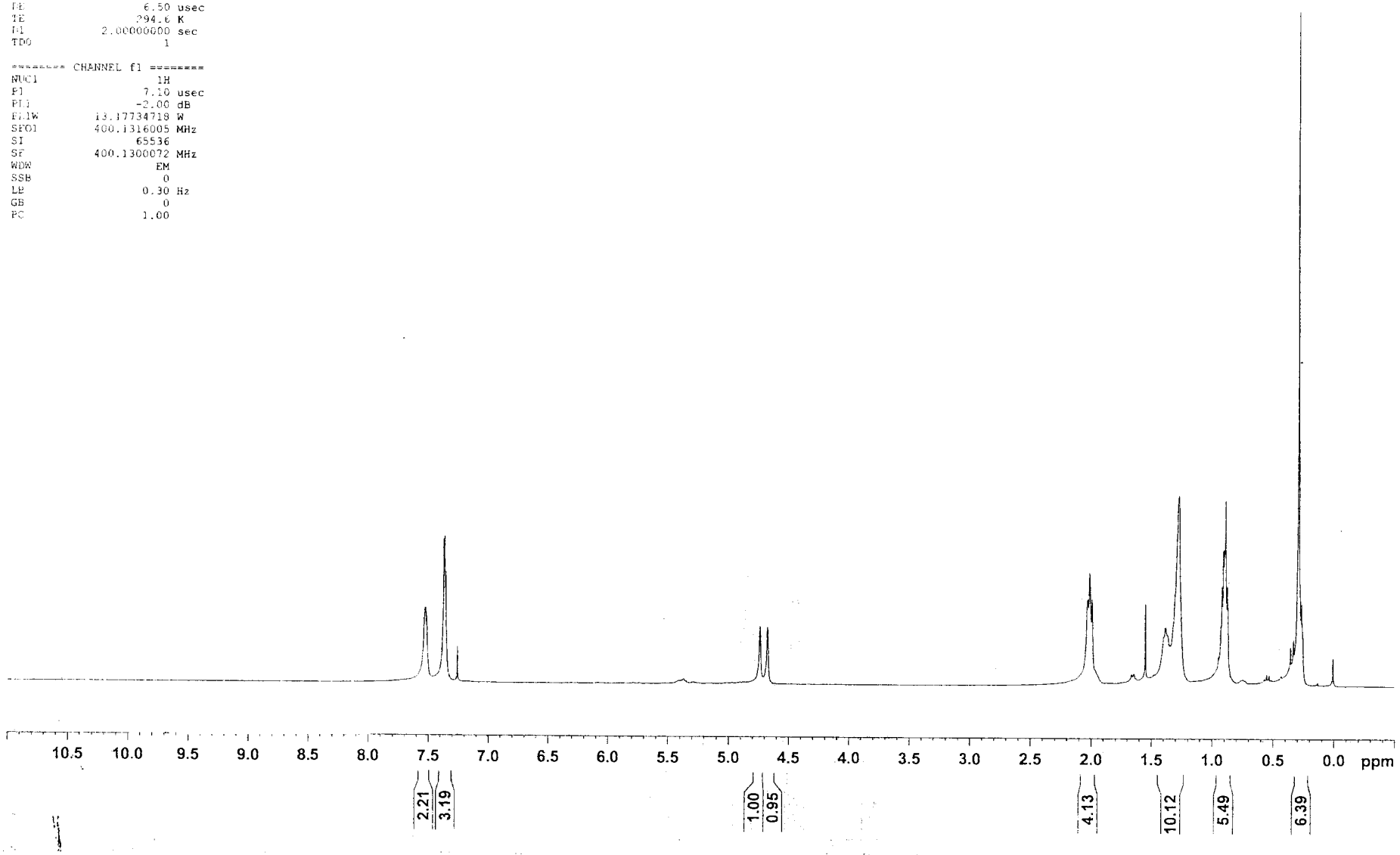
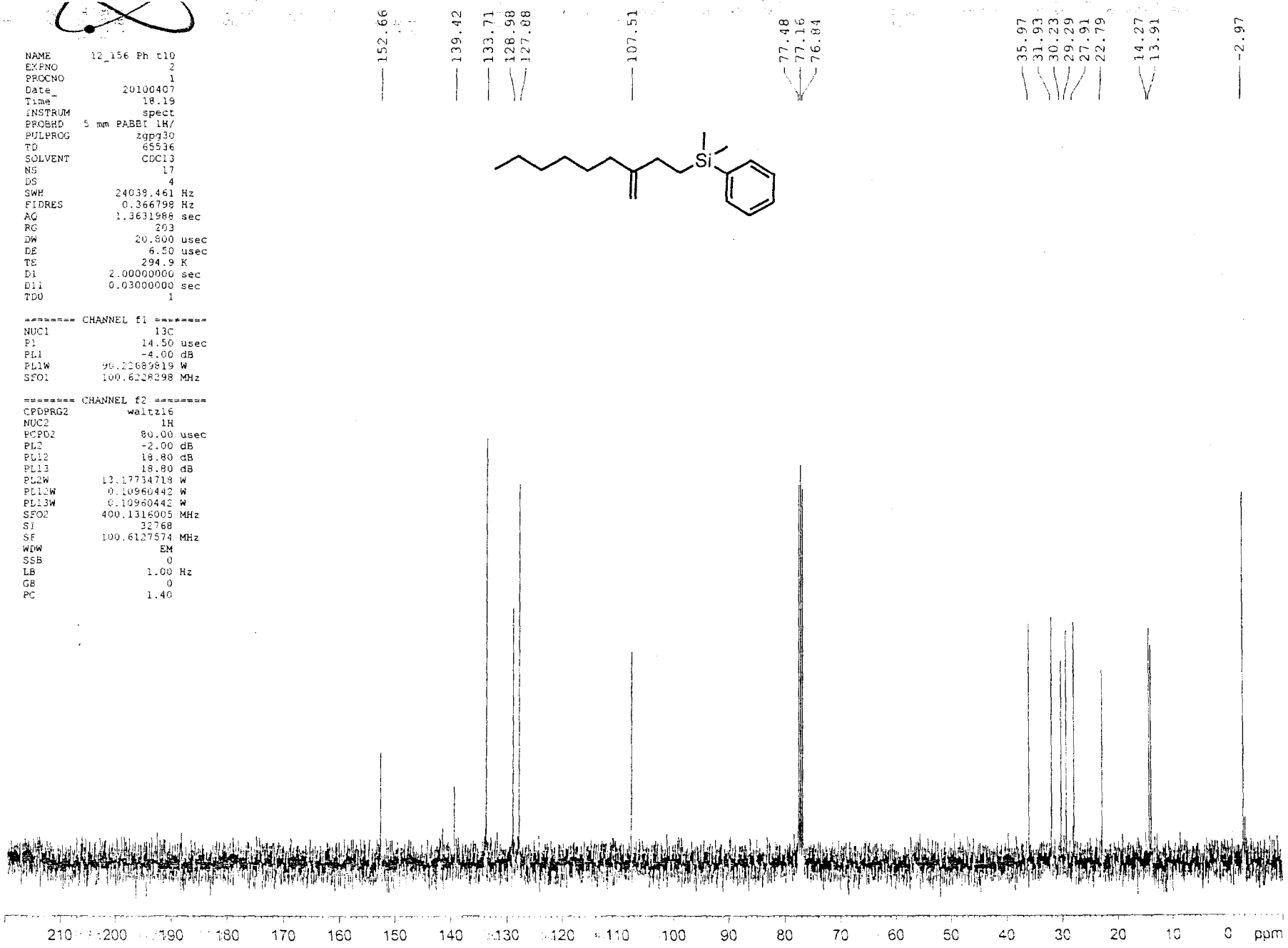
```
NAME          12_156 Ph t7
EXPNO                    1
PROCNO                   1
Date_             20100407
Time                 18.23
INSTRUM               spect
PROBHD   5 mm PABBI 1H/
PULPROG                 zg
TD                   65536
SOLVENT              CDCl3
NS                       2
DS                       0
SWH              10000.000 Hz
FIDRES               0.152588 Hz
AQ                3.2768500 sec
RG                      25.4
DW                 50.000 usec
DE                  6.50 usec
TE                 294.6 K
D1             2.00000000 sec
TD0                      1

======== CHANNEL f1 ========
NUC1                    1H
P1                   7.10 usec
PL1                 -2.00 dB
PL1W          13.17734718 W
SFO1          400.1316005 MHz
SI                   65536
SF            400.1300072 MHz
WDW                     EM
SSB                      0
LB                    0.30 Hz
GB                       0
PC                    1.00
```





NAME	12_156 Ph t10
EXPNO	2
PROCNO	1
Date_	20100407
Time	18.19
INSTRUM	spect
PROBHD	5 mm PABBI 1H/
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	17
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	203
DW	20.800 usec
DE	6.50 usec
TE	294.9 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	14.50 usec
PL1	-4.00 dB
PL1W	99.22689819 W
SFO1	100.6228298 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	80.00 usec
PL2	-2.00 dB
PL12	18.80 dB
PL13	18.80 dB
PL2W	13.17734718 W
PL12W	0.10960442 W
PL13W	0.10960442 W
SFO2	400.1316005 MHz
SI	32768
SF	100.6127574 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

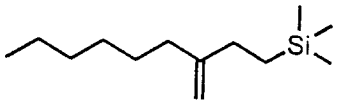


NAME	12_142 tii pdt
EXPNO	1
PROCNO	1
Date	20100310
Time	13.24
INSTRUM	spect
PROBHD	5 mm PADUL 13C
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	3
DS	0
SWH	10000.000 Hz
FIDRES	0.152588 Hz
AQ	3.2768500 sec
RG	144
DW	50.000 usec
DE	6.50 usec
TE	295.4 K
D1	5.00000000 sec
TD0	1

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

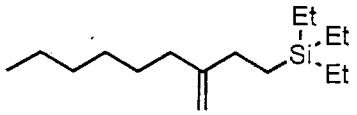
NUC1	1H
P1	14.83 usec
PL1	0.00 dB
PL1W	8.31434441 W
SFO1	400.1316005 MHz
SI	65536
SF	400.1300339 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

12 - 142 tii pdt . THS n-hex.

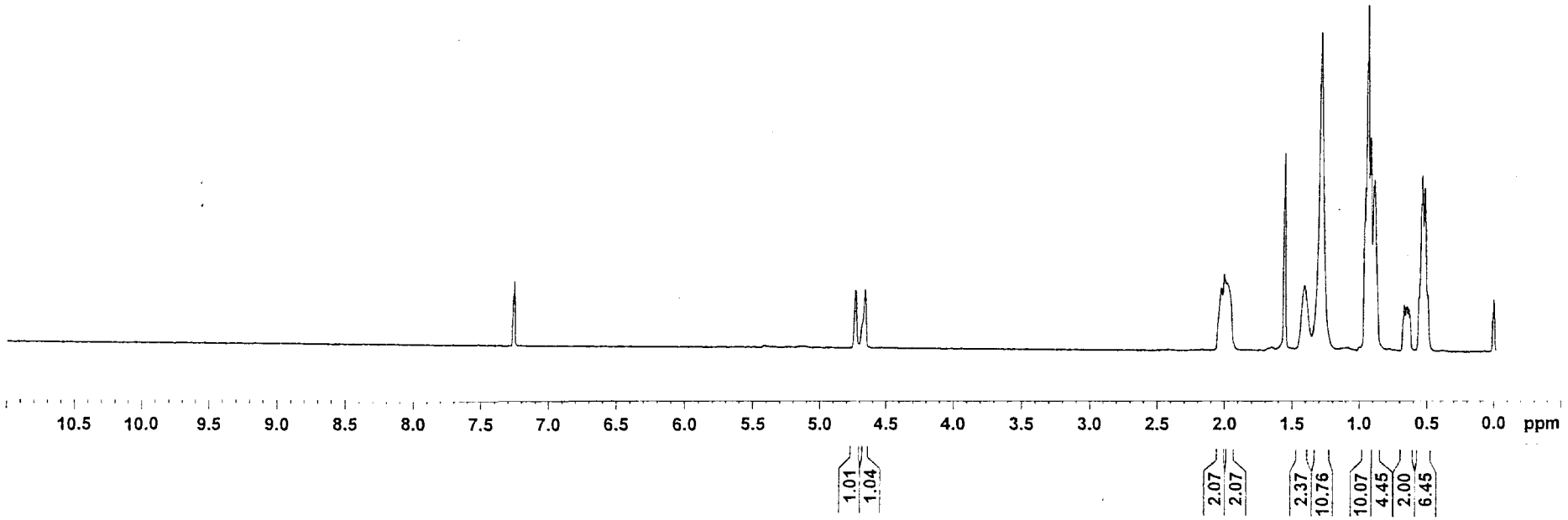


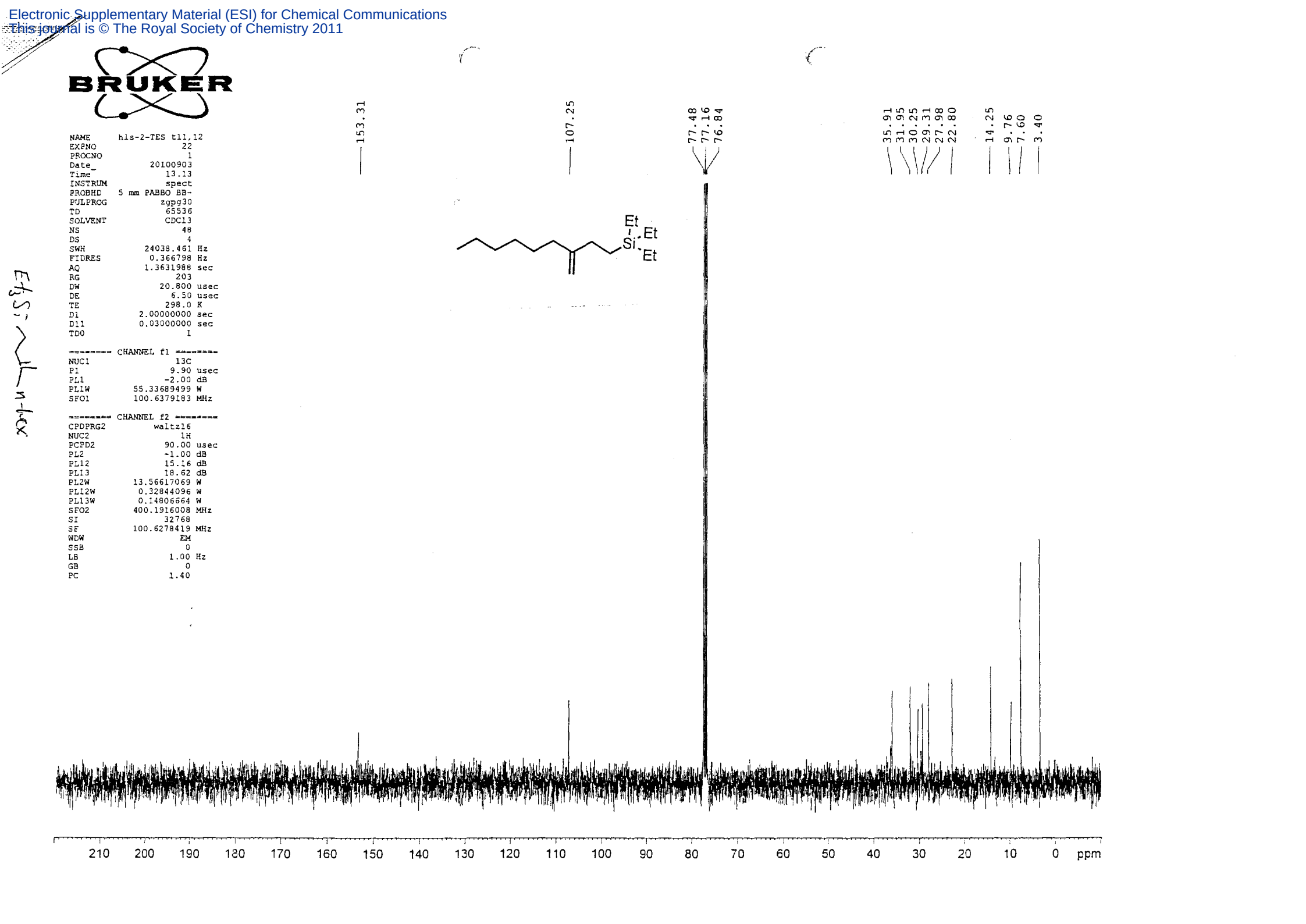
NAME	12_142 t11 pdt
EXPNO	2
PROCNO	1
Date_	20100310
Time	13.27
INSTRUM	spect
PROBHD	5 mm PADUL 13C
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	36
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	203
DW	20.800 usec
DE	6.50 usec
TE	296.0 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	9.68 usec
PL1	-0.60 dB
PL1W	41.24164963 W
SFO1	100.6228298 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	0.00 dB
PL12	15.66 dB
PL13	15.92 dB
PL2W	8.31434441 W
PL12W	0.22585411 W
PL13W	0.21272963 W
SFO2	400.1316005 MHz
SI	32768
SF	100.6127534 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

NAME	hls-2-TES t11,12
EXPNO	11
PROCNO	1
Date_	20100903
Time	13.22
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	3
DS	2
SWH	8223.685 Hz
FIDRES	0.125483 Hz
AQ	3.9846387 sec
RG	4
DW	60.800 usec
DE	6.50 usec
TE	297.8 K
D1	1.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1924713 MHz
SI	32768
SF	400.1900147 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00



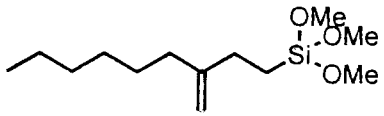
Et3Si-n-hex





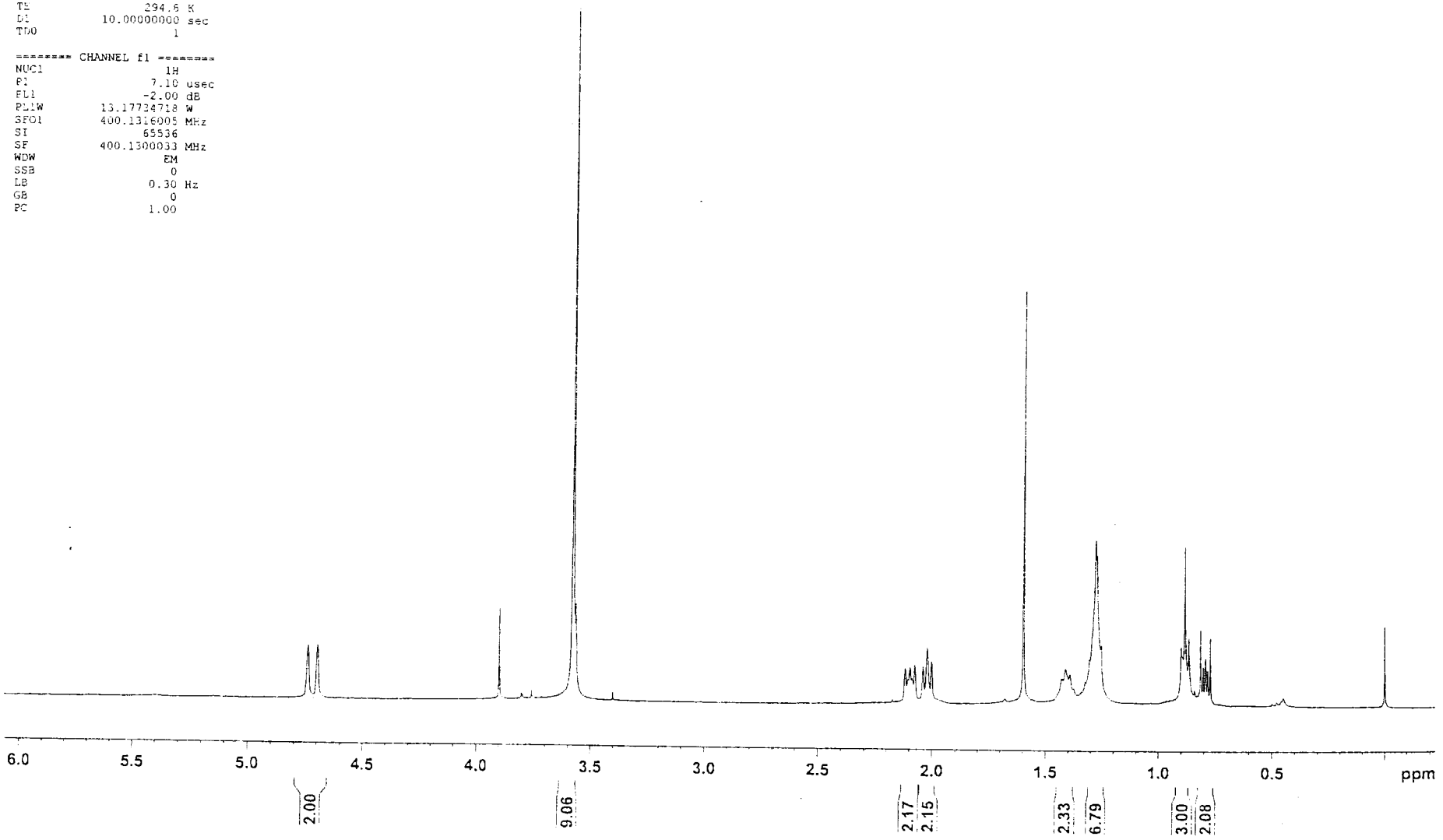
```
NAME          12_156 OMe b26
EXPNO                    11
PROCNO                    1
Date_          20100407
Time                18.55 h
INSTRUM                spect
PROBHD   5 mm PABBI 1H/
PULPROG                  zg
TD                    65536
SOLVENT               CDCl3
NS                        3
DS                        0
SWH               10000.000 Hz
FIDRES                0.152588 Hz
AQ                3.2768500 sec
RG                       64
DW                   50.000 usec
DE                    6.50 usec
TE                   294.6 K
D1           10.00000000 sec
TD0                       1

======== CHANNEL f1 ========
NUC1                     1H
P1                    7.10 usec
PL1                  -2.00 dB
PL1W          13.17734718 W
SFO1          400.1316005 MHz
SI                    65536
SF            400.1300033 MHz
WDW                      EM
SSB                       0
LB                    0.30 Hz
GB                        0
PC                    1.00
```

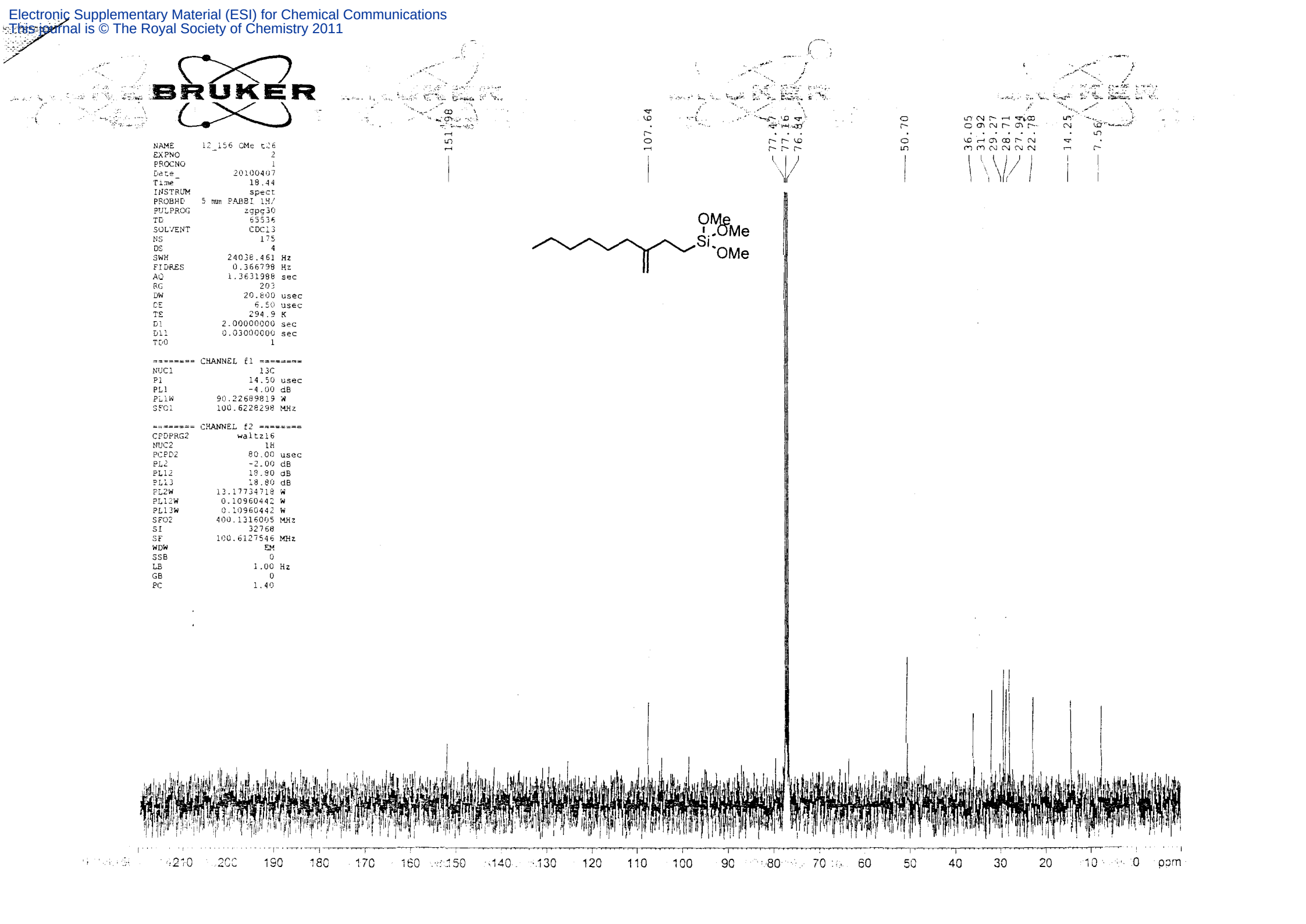
d1 =10



(MeO)3Si

n-hex

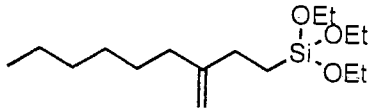


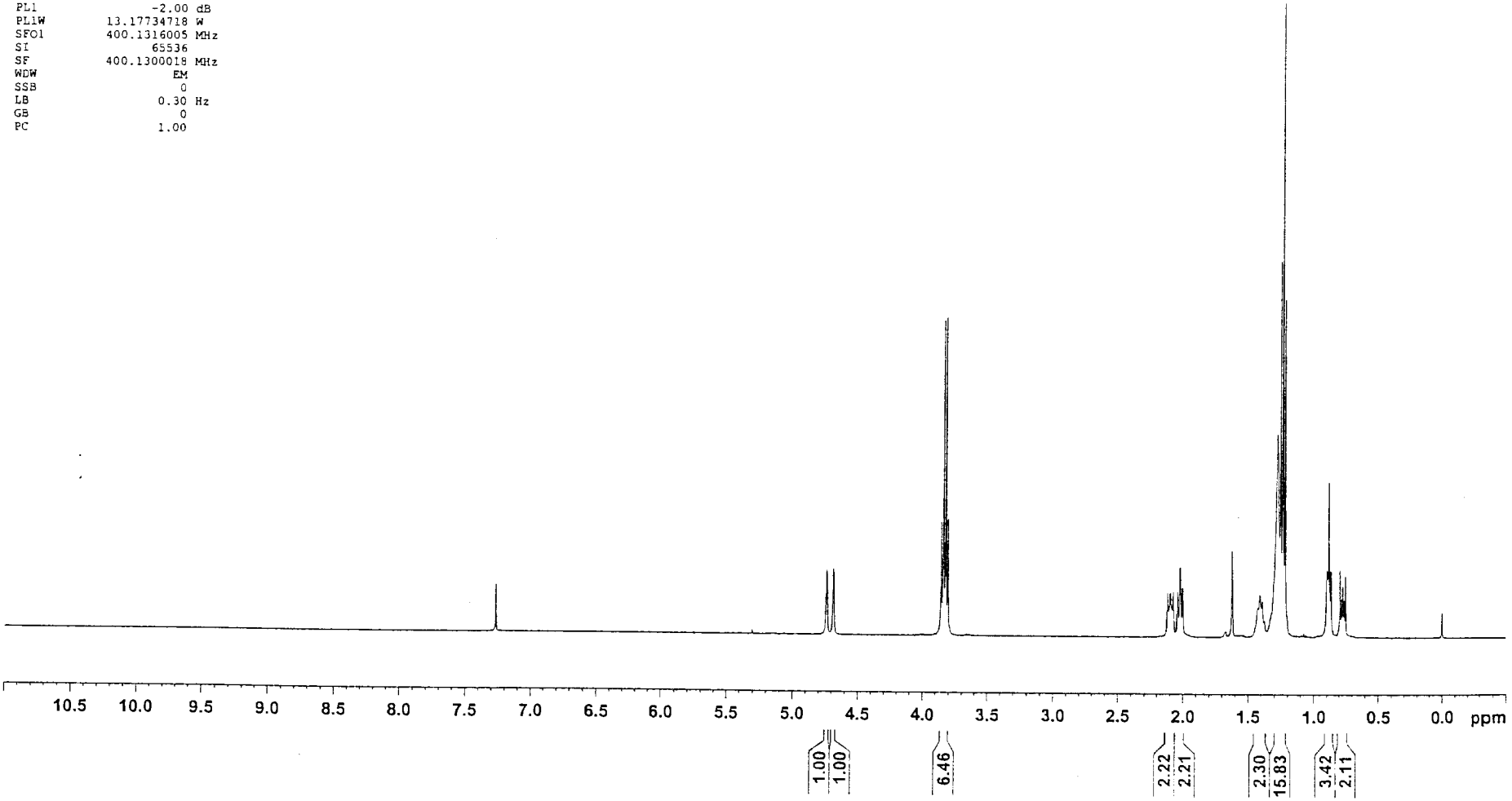


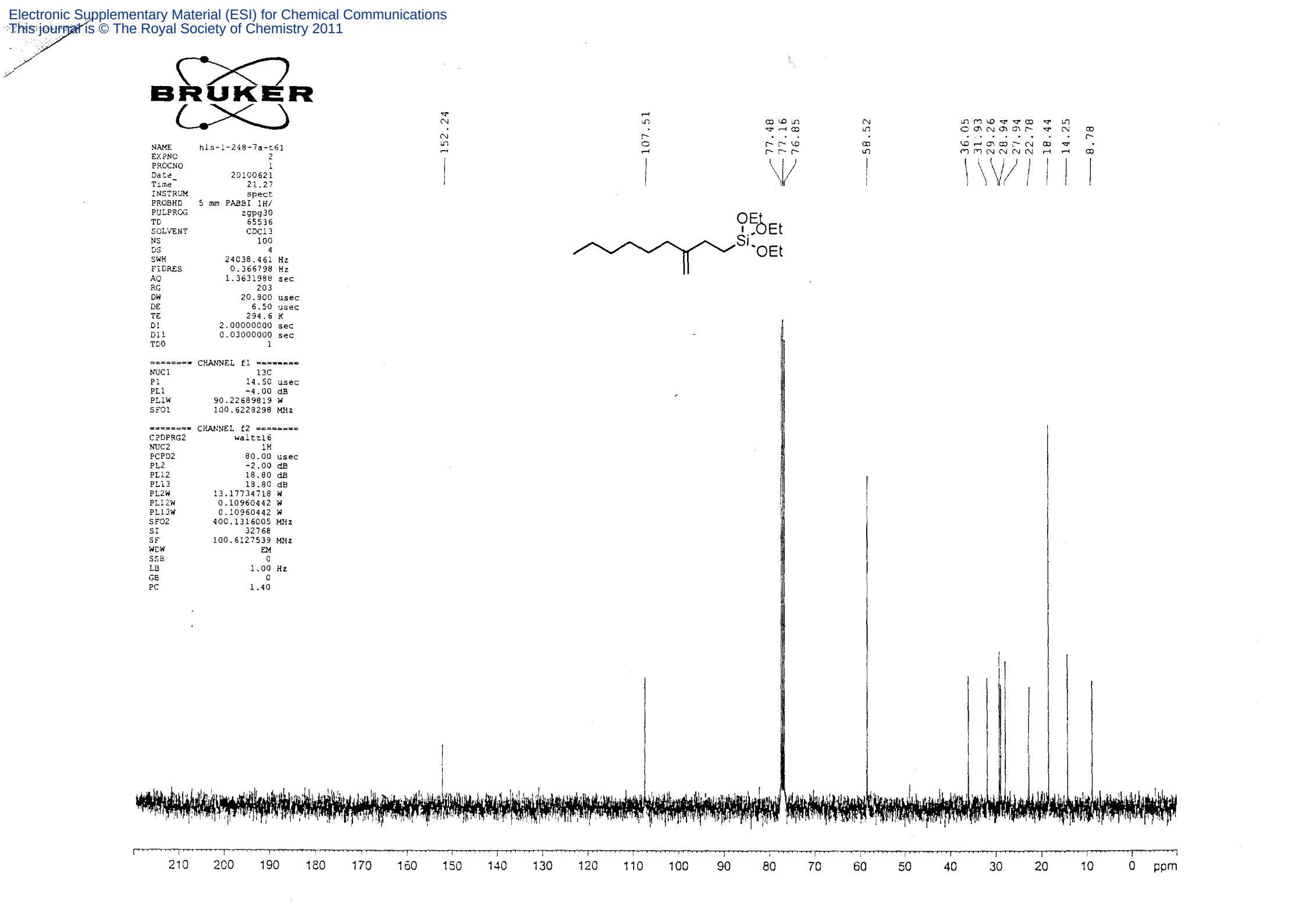
NAME	hls-i-248-7a-t61
EXPNO	1
PROCNO	1
Date_	20100621
Time	21.17
INSTRUM	spect
PROBHD	5 mm PABBI 1H/
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	1
DS	0
SWH	10000.000 Hz
FIDRES	0.152588 Hz
AQ	3.2768500 sec
RG	45.2
DW	50.000 usec
DE	6.50 usec
TE	294.3 K
D1	5.00000000 sec
TD0	1

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

NUC1	1H
P1	7.10 usec
PL1	-2.00 dB
PL1W	13.17734718 W
SFO1	400.1316005 MHz
SI	65536
SF	400.1300018 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00



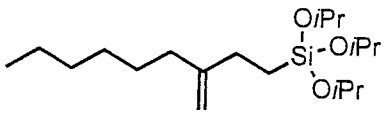




NAME	hls-2-3-1-t29
EXPNO	1
PROCNO	1
Date_	20100806
Time	20.32
INSTRUM	spect
PROBHD	5 mm PABBI 1H/
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	3
DS	0
SWH	10000.000 Hz
FIDRES	0.152588 Hz
AQ	3.2768500 sec
RG	71.8
DW	50.000 usec
DE	6.50 usec
TE	294.3 K
D1	5.00000000 sec
TD0	1

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

NUC1	1H
P1	7.10 usec
PL1	-2.00 dB
PL1W	13.17734718 W
SFO1	400.1316005 MHz
SI	65536
SF	400.1300031 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

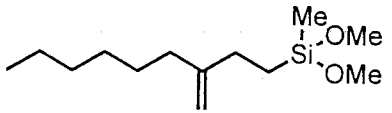


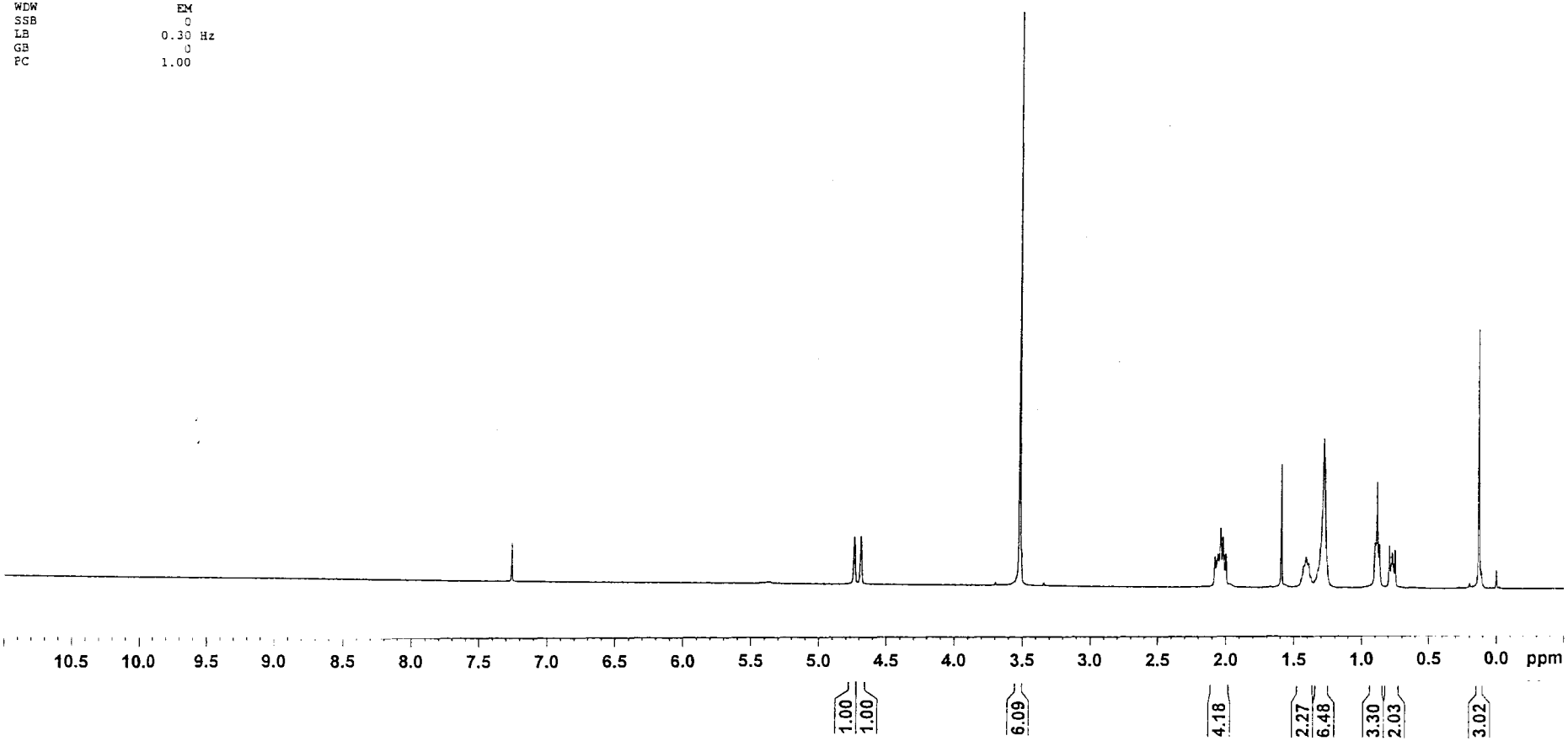
NAME	hls-2-3-1-t25	
EXPNO	2	
PROCNO	1	
Date_	20100806	
Time	18.19	
INSTRUM	spect	
PROBHD	5 mm PABBI 1H/	
PULPROG	zgpg30	
TD	65536	
SOLVENT	CDCl3	
NS	40	
DS	4	
SWH	24038.461	Hz
FIDRES	0.366798	Hz
AQ	1.3631988	sec
RG	203	
DW	20.800	usec
DE	6.50	usec
TE	294.7	K
D1	2.00000000	sec
D11	0.03000000	sec
TD0	1	
======== CHANNEL f1 ========		
NUC1	13C	
P1	14.50	usec
PL1	-4.00	dB
PL1W	90.22689819	W
SFO1	100.6228298	MHz
======== CHANNEL f2 ========		
CPDPRG2	waltz16	
NUC2	1H	
PCPD2	80.00	usec
PL2	-2.00	dB
PL12	18.80	dB
PL13	18.80	dB
PL2W	13.17734718	W
PL12W	0.10960442	W
PL13W	0.10960442	W
SFO2	400.1316005	MHz
SI	32768	
SF	100.6127531	MHz
WDW	EM	
SSB	0	
LB	1.00	Hz
GB	0	
PC	1.40	

NAME	hls-2-7-5-t3233
EXPNO	1
PROCNO	1
Date_	20100826
Time	14.06
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	11
DS	2
SWH	8223.685 Hz
FIDRES	0.125483 Hz
AQ	3.9846397 sec
RG	71.8
DW	60.800 usec
DE	6.50 usec
TE	300.7 K
D1	1.00000000 sec
TD0	1

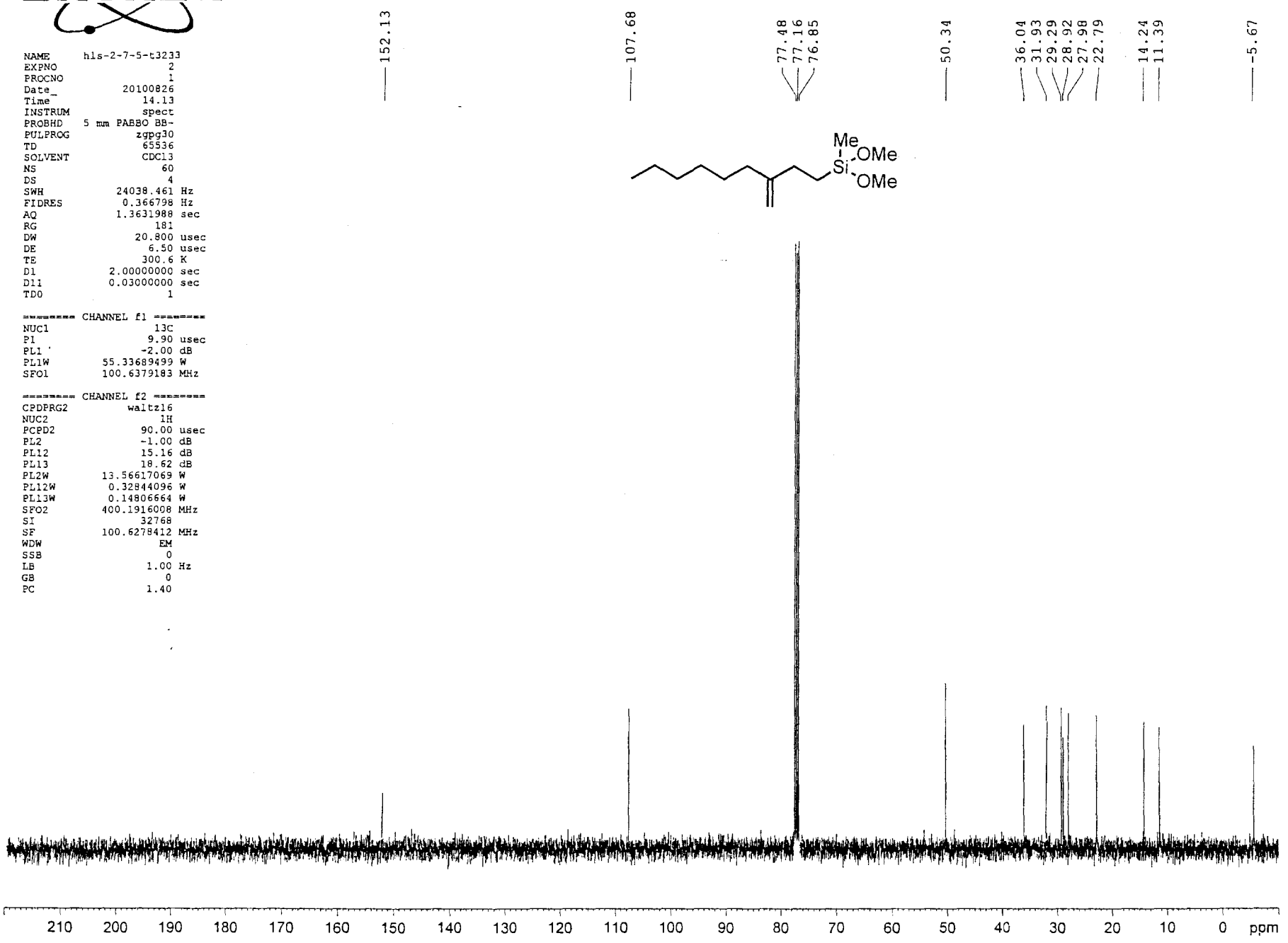
======== CHANNEL f1 ========

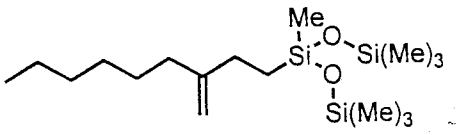
NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1924713 MHz
SI	32768
SF	400.1900132 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00





NAME	hls-2-7-5-t3233
EXPNO	2
PROCNO	1
Date_	20100826
Time	14.13
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	60
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	181
DW	20.800 usec
DE	6.50 usec
TE	300.6 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	9.90 usec
PL1	-2.00 dB
PL1W	55.33689499 W
SFO1	100.6379183 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	-1.00 dB
PL12	15.16 dB
PL13	18.62 dB
PL2W	13.56617069 W
PL12W	0.32844096 W
PL13W	0.14806664 W
SFO2	400.1916008 MHz
SI	32768
SF	100.6278412 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40





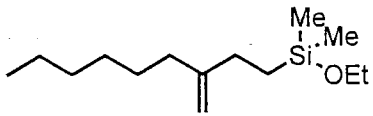

```
NAME       mis-2-11-4-t11
EXPNO                   1
PROCNO                  1
Date_            20100831
Time                21.33
INSTRUM             spect
PROBHD   5 mm PABBI 1H/
PULPROG             zg30
TD                 65536
SOLVENT            CDCl3
NS                     3
DS                     0
SWH            10000.000 Hz
FIDRES             0.152588 Hz
AQ             3.2768500 sec
RG                    36
DW                50.000 usec
DE                 6.50 usec
TE                294.4 K
D1             5.00000000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P1                  7.10 usec
PL1                -2.00 dB
PL1W         13.17734718 W
SFO1         400.1316005 MHz
SI                 65536
SF           400.1300053 MHz
WDW                   EM
SSB                    0
LB                  0.30 Hz
GB                     0
PC                  1.00
```

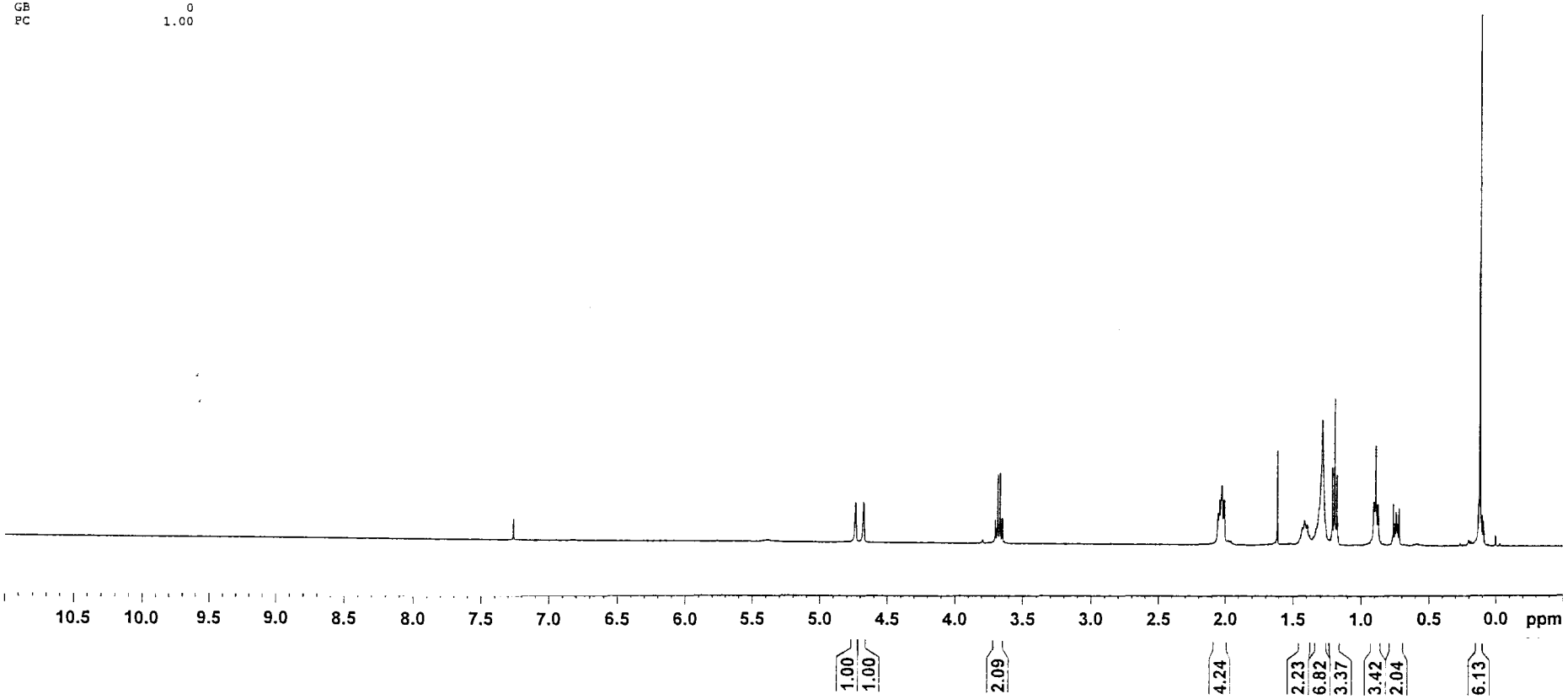
NAME	hls-2-11-4-t11
EXPNO	2
PROCNO	1
Date_	20100831
Time	21.38
INSTRUM	spect
PROBHD	5 mm PABBI 1H/
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	56
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	203
DW	20.800 usec
DE	6.50 usec
TE	294.8 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	14.50 usec
PL1	-4.00 dB
PL1W	90.22689819 W
SFO1	100.6228298 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	80.00 usec
PL2	-2.00 dB
PL12	19.80 dB
PL13	18.80 dB
PL2W	13.17734718 W
PL12W	0.10960442 W
PL13W	0.10960442 W
SFO2	400.1316005 MHz
SI	32768
SF	100.6127531 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

NAME	hls-2-7-4-t19
EXPNO	1
PROCNO	1
Date_	20100826
Time	14.20
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	6
DS	2
SWH	8223.685 Hz
FIDRES	0.125483 Hz
AQ	3.9846387 sec
RG	45.2
DW	60.800 usec
DE	6.50 usec
TE	300.1 K
D1	1.00000000 sec
TD0	1

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

NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1924713 MHz
SI	32768
SF	400.1900133 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

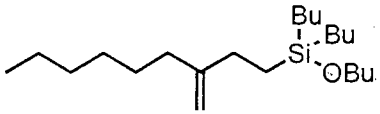


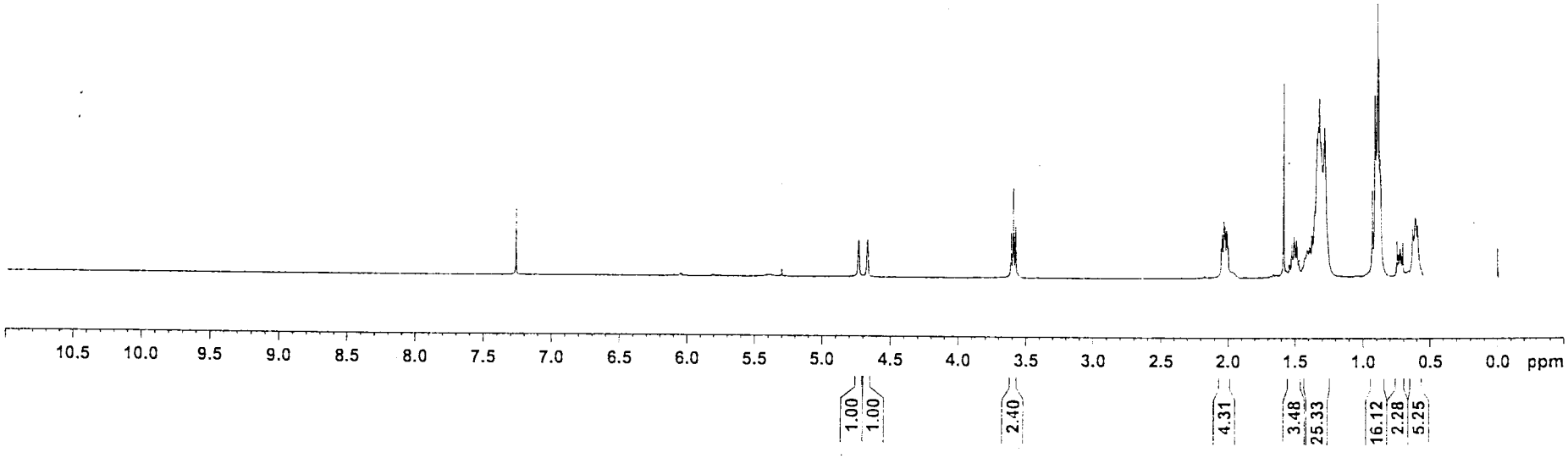


NAME	hls-2-7-4-t19
EXPNO	2
PROCNO	1
Date_	20100826
Time	14.26
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	87
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	181
DW	20.800 usec
DE	6.50 usec
TE	300.4 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	9.90 usec
PL1	-2.00 dB
PL1W	55.33689499 W
SFO1	100.6379183 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	-1.00 dB
PL12	15.16 dB
PL13	18.62 dB
PL2W	13.56617069 W
PL12W	0.32844096 W
PL13W	0.14806664 W
SFO2	400.1916008 MHz
SI	32768
SF	100.6278416 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

NAME	his-1-249-2-t16
EXPNO	1
PROCNO	1
Date_	20100914
Time	18.19
INSTRUM	spect
PROBHD	5 mm PABBI 1H/
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	6
DS	0
SWH	10000.000 Hz
FIDRES	0.152588 Hz
AQ	3.2768500 sec
RG	64
DW	50.000 usec
DE	6.50 usec
TE	296.0 K
D1	5.00000000 sec
TD0	1

======== CHANNEL f1 ========	
NUC1	1H
P1	7.10 usec
PL1	-2.00 dB
PL1W	13.17734718 W
SFO1	400.1316005 MHz
SI	65536
SF	400.1300050 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

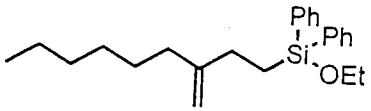


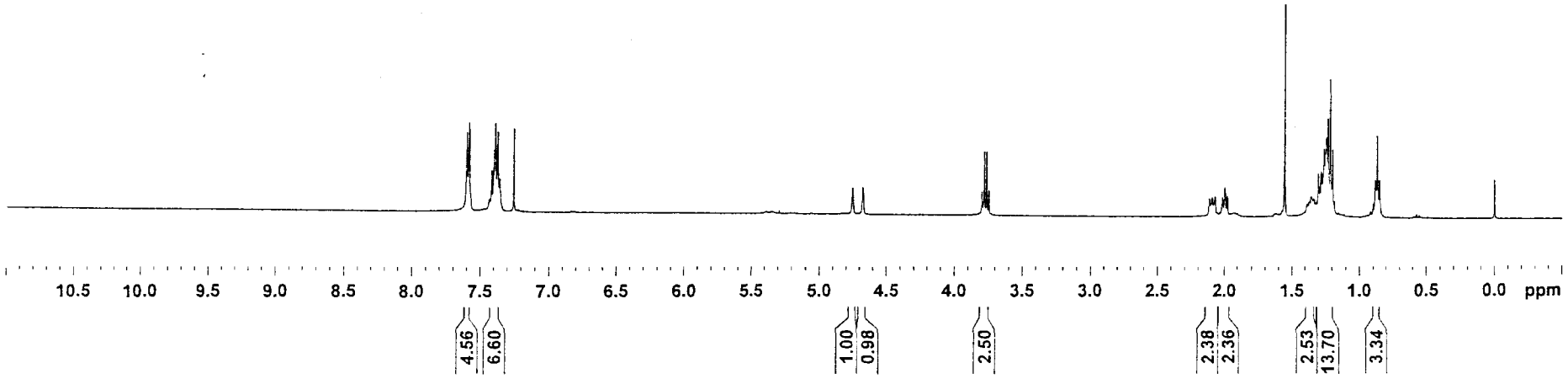


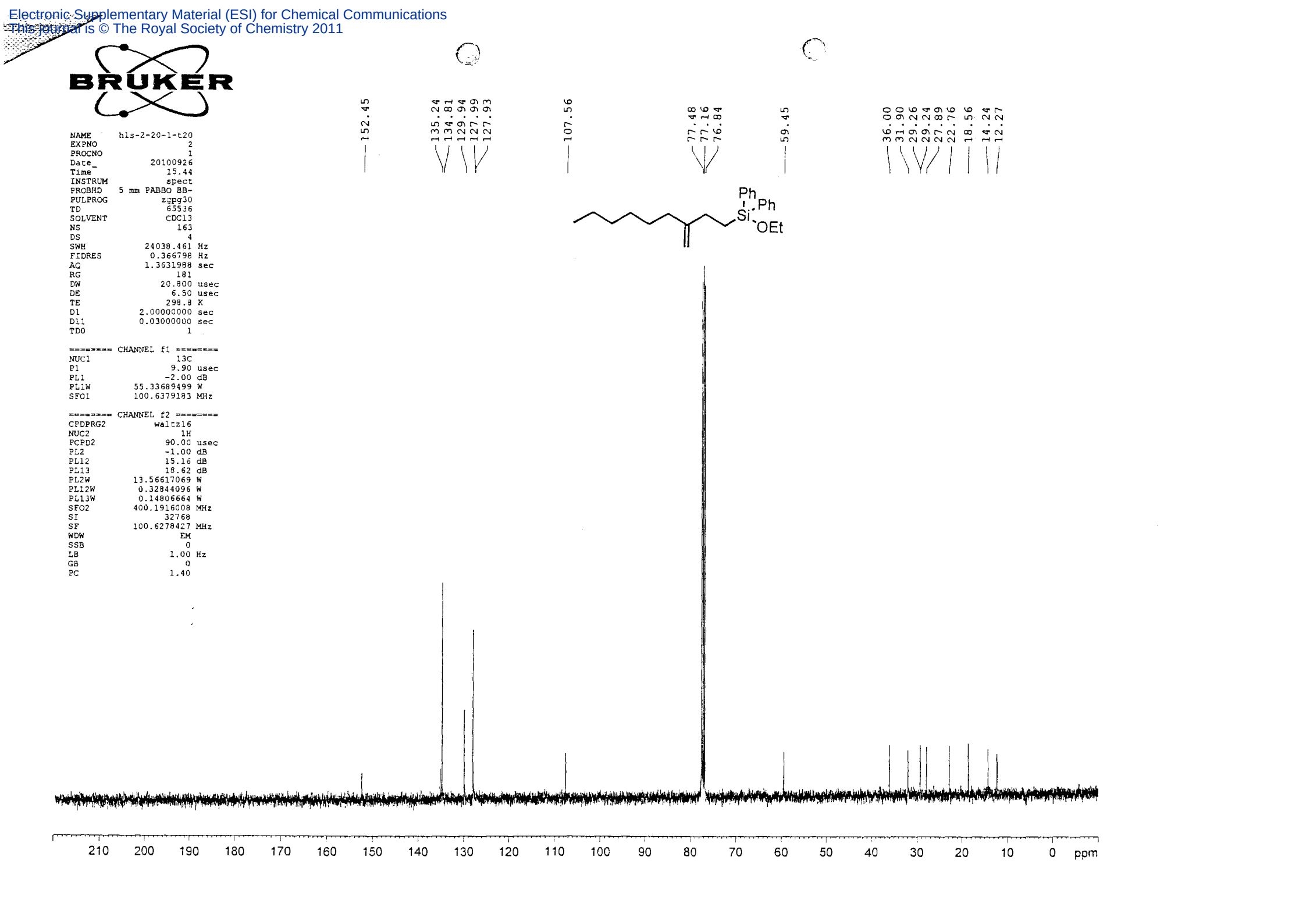
```
NAME      hls-1-249-2-ti6
EXPNO                  3
PROCNO                 1
Date_           20100914
Time               18.26
INSTRUM             spect
PROBHD   5 mm PABBI 1H/
PULPROG           zgpg30
TD                 65536
SOLVENT            CDCl3
NS                   261
DS                     4
SWH            24038.461 Hz
FIDRES          0.366798 Hz
AQ              1.3631988 sec
RG                   203
DW                20.800 usec
DE                 6.50 usec
TE                296.6 K
D1             2.00000000 sec
D11            0.03000000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  13C
P1                 14.50 usec
PL1                -4.00 dB
PL1W         90.22689819 W
SFO1         100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2           waltz16
NUC2                  1H
PCPD2              80.00 usec
PL2                -2.00 dB
PL12               18.80 dB
PL13               18.80 dB
PL2W         13.17734718 W
PL12W         0.10960442 W
PL13W         0.10960442 W
SFO2         400.1316005 MHz
SI                 32768
SF           100.6127531 MHz
WDW                   EM
SSB                    0
LB                  1.00 Hz
GB                     0
PC                  1.40
```

NAME	hls-2-20-1-t20
EXPNO	1
PROCNO	1
Date_	20100926
Time	15.34
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	4
DS	1
SWH	8223.685 Hz
FIDRES	0.125483 Hz
AQ	3.9846387 sec
RG	101
DW	60.800 usec
DE	6.50 usec
TE	298.4 K
D1	5.00000000 sec
TD0	1

======== CHANNEL f1 ========	
NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1924713 MHz
SI	32768
SF	400.1900168 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

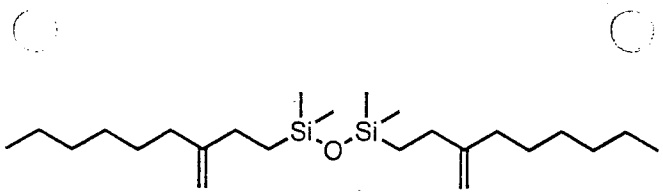


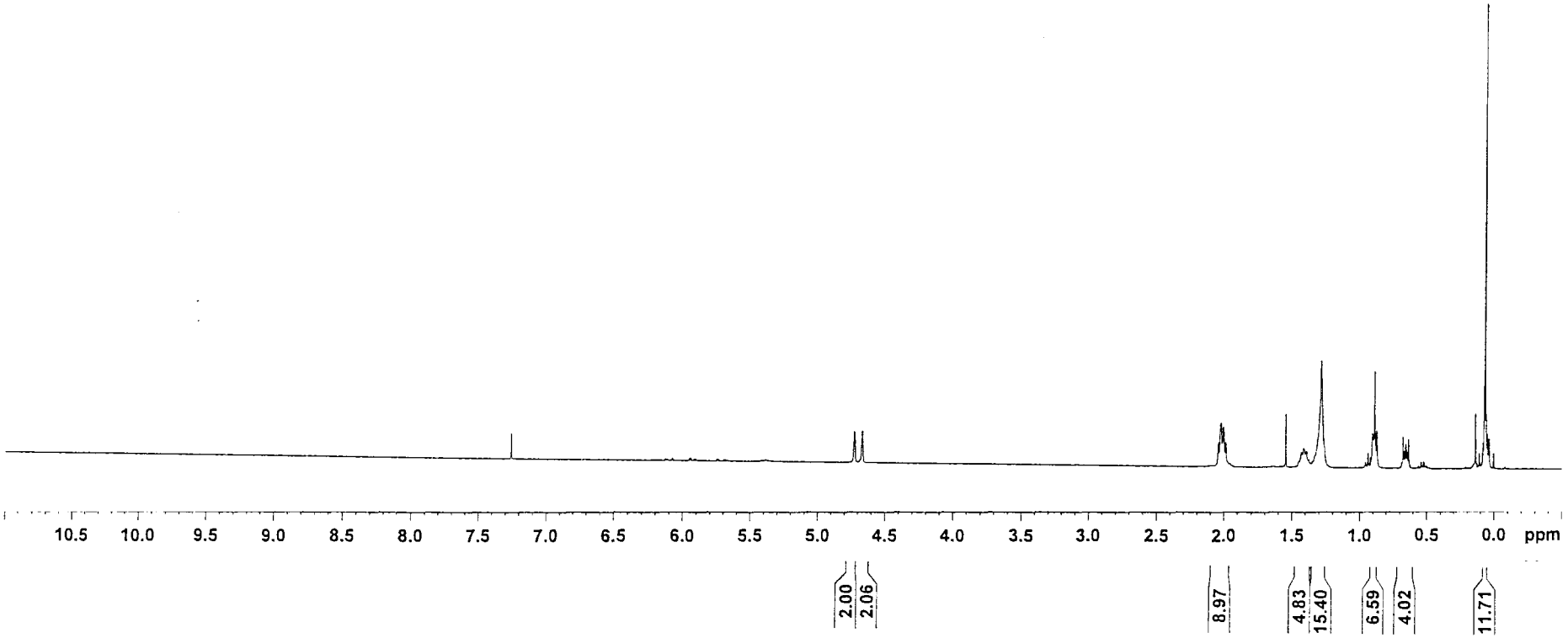


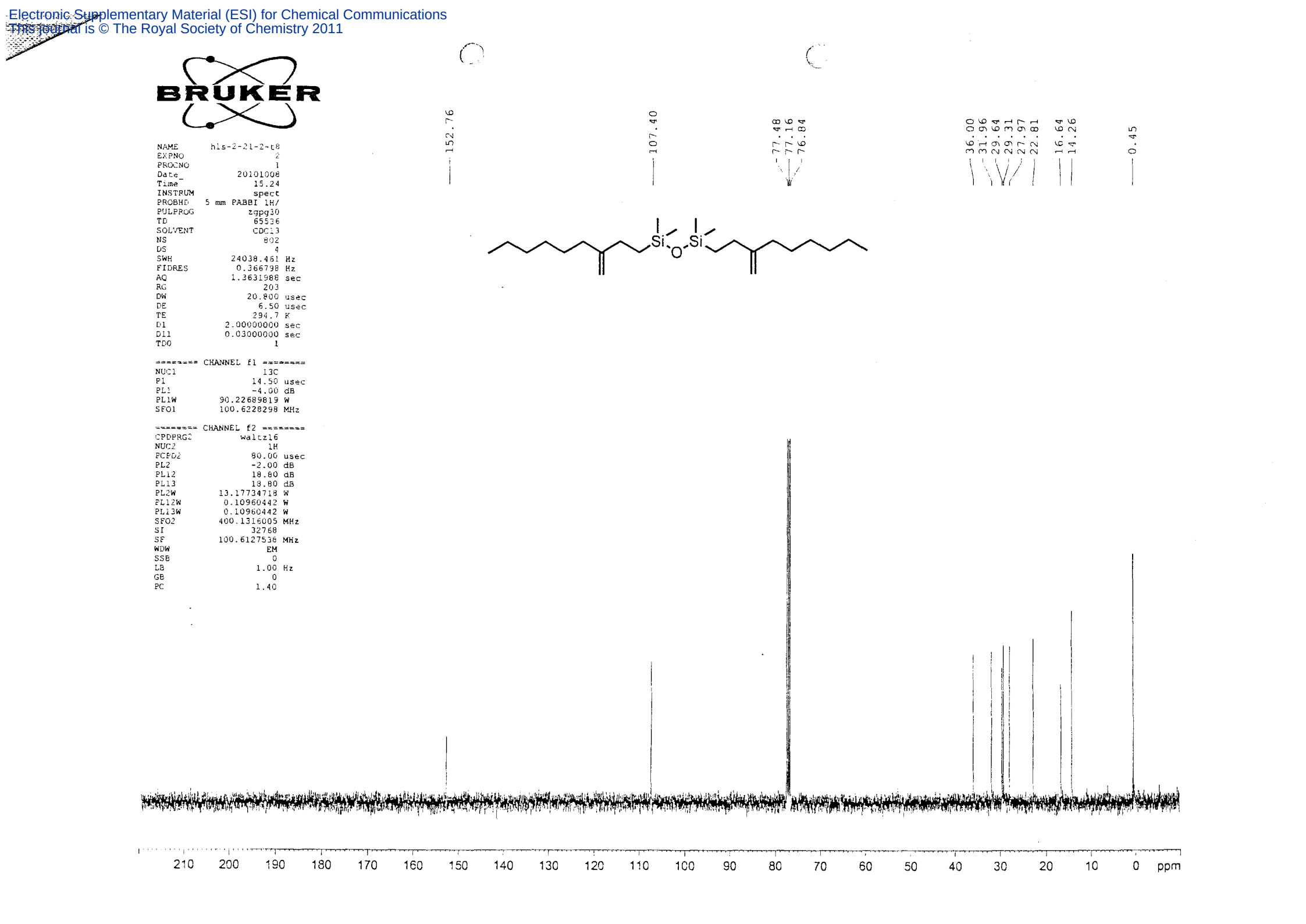


NAME	hls-2-20-1-t20
EXPNO	2
PROCNO	1
Date_	20100926
Time	15.44
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	163
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	181
DW	20.800 usec
DE	6.50 usec
TE	298.8 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	9.90 usec
PL1	-2.00 dB
PL1W	55.33689499 W
SFO1	100.6379183 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	-1.00 dB
PL12	15.16 dB
PL13	18.62 dB
PL2W	13.56617069 W
PL12W	0.32844096 W
PL13W	0.14806664 W
SFO2	400.1916008 MHz
SI	32768
SF	100.6278427 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

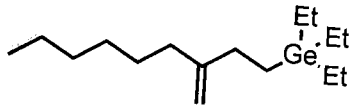
NAME	his-2-22-2-13
EXPNO	1
PROCNO	1
Date_	20101006
Time	21.54
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	5
DS	1
SWH	8223.685 Hz
FIDRES	0.125483 Hz
AQ	3.9846387 sec
RG	40.3
DW	60.800 usec
DE	6.50 usec
TE	297.9 K
D1	5.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1924713 MHz
SI	32768
SF	400.1900156 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00



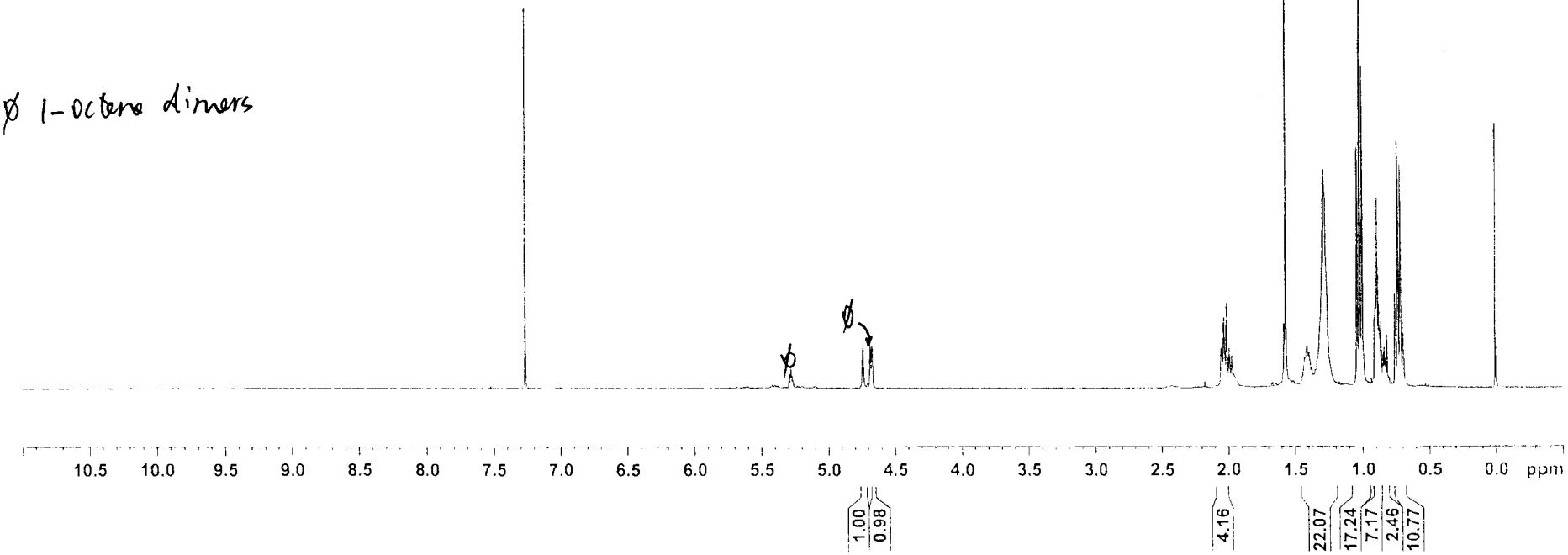


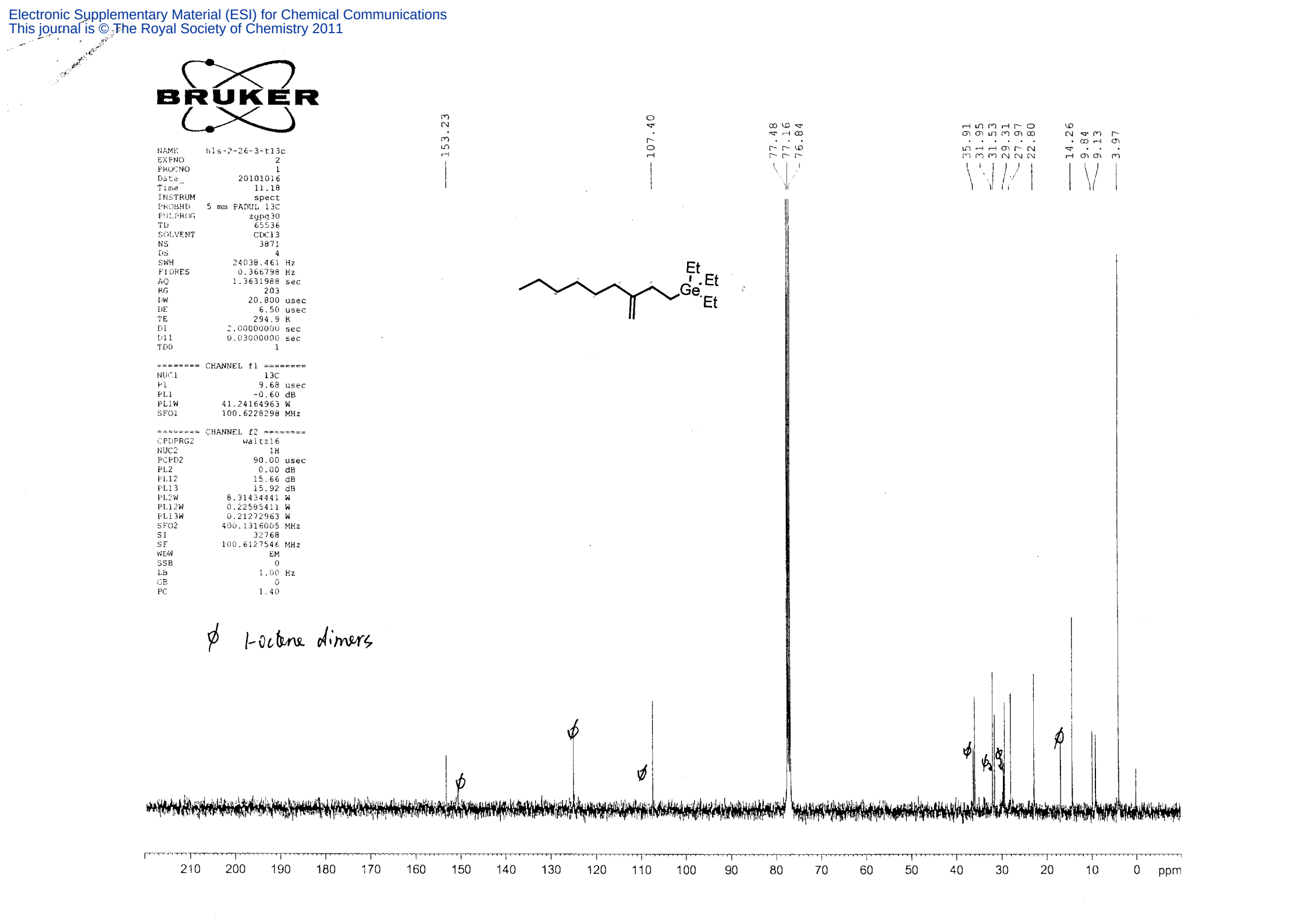


```
NAME      nis-2-26-3-113c
EXPNO                  1
PROCNO                 1
Date_           20101016
Time              11.12
INSTRUM            spect
PROBHD     5 mm PABBO BB/
PULPROG            zg30
TD                 65536
SOLVENT            CDCl3
NS                     6
DS                     0
SWH            10000.000 Hz
FIDRES             0.152588 Hz
AQ             3.2768500 sec
RG                   203
DW                50.000 usec
DE                 6.50 usec
TE                294.5 K
D1             5.00000000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                  1H
P1                14.83 usec
PL1                0.00 dB
PL1W         8.31434441 W
SFO1         400.1316005 MHz
SI                 65536
SF           400.1300088 MHz
WDW                   EM
SSB                    0
LB                 0.30 Hz
GB                     0
PC                  1.00
```

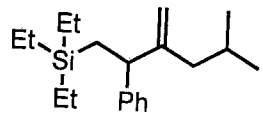


Ø 1-Octene dimers





NAME	hls-2-7-1 t9
EXPNO	11
PROCNO	1
Date_	20101018
Time	16.05
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	3
DS	2
SWH	8223.685 Hz
FIDRES	0.125483 Hz
AQ	3.9846387 sec
RG	71.8
DW	60.800 usec
DE	6.50 usec
TE	299.5 K
D1	1.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1924713 MHz
SI	32768
SF	400.1900173 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00



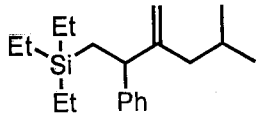
+ ph⟋⟍SiEt3

ratio 1 : 3

BRUKER

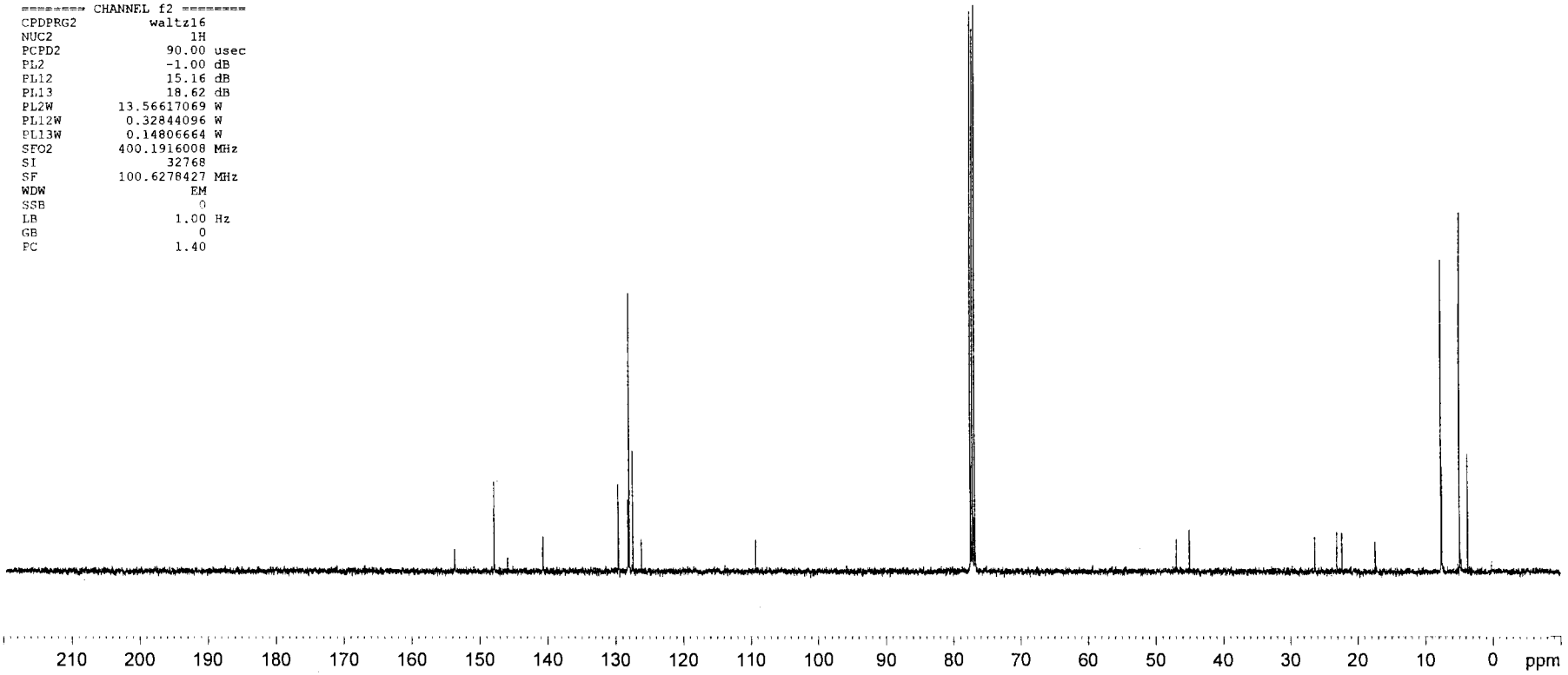
NAME	hls-2-7-1 t9
EXPNO	2
PROCNO	1
Date_	20101018
Time	18.11
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	342
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	161
DW	20.800 usec
DE	6.50 usec
TE	299.2 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	9.90 usec
PL1	-2.00 dB
PL1W	55.33689499 W
SFO1	100.6379183 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	-1.00 dB
PL12	15.16 dB
PL13	18.62 dB
PL2W	13.56617069 W
PL12W	0.32844096 W
PL13W	0.14806664 W
SFO2	400.1916008 MHz
SI	32768
SF	100.6278427 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

153.66, 147.85, 140.66, 129.60, 128.19, 128.12, 127.98, 127.45, 126.19, 109.25, 77.47, 77.16, 76.84, 46.92, 45.00, 26.37, 23.05, 22.31, 17.42, 7.61, 7.49, 4.88, 3.69

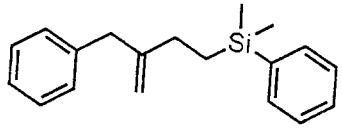


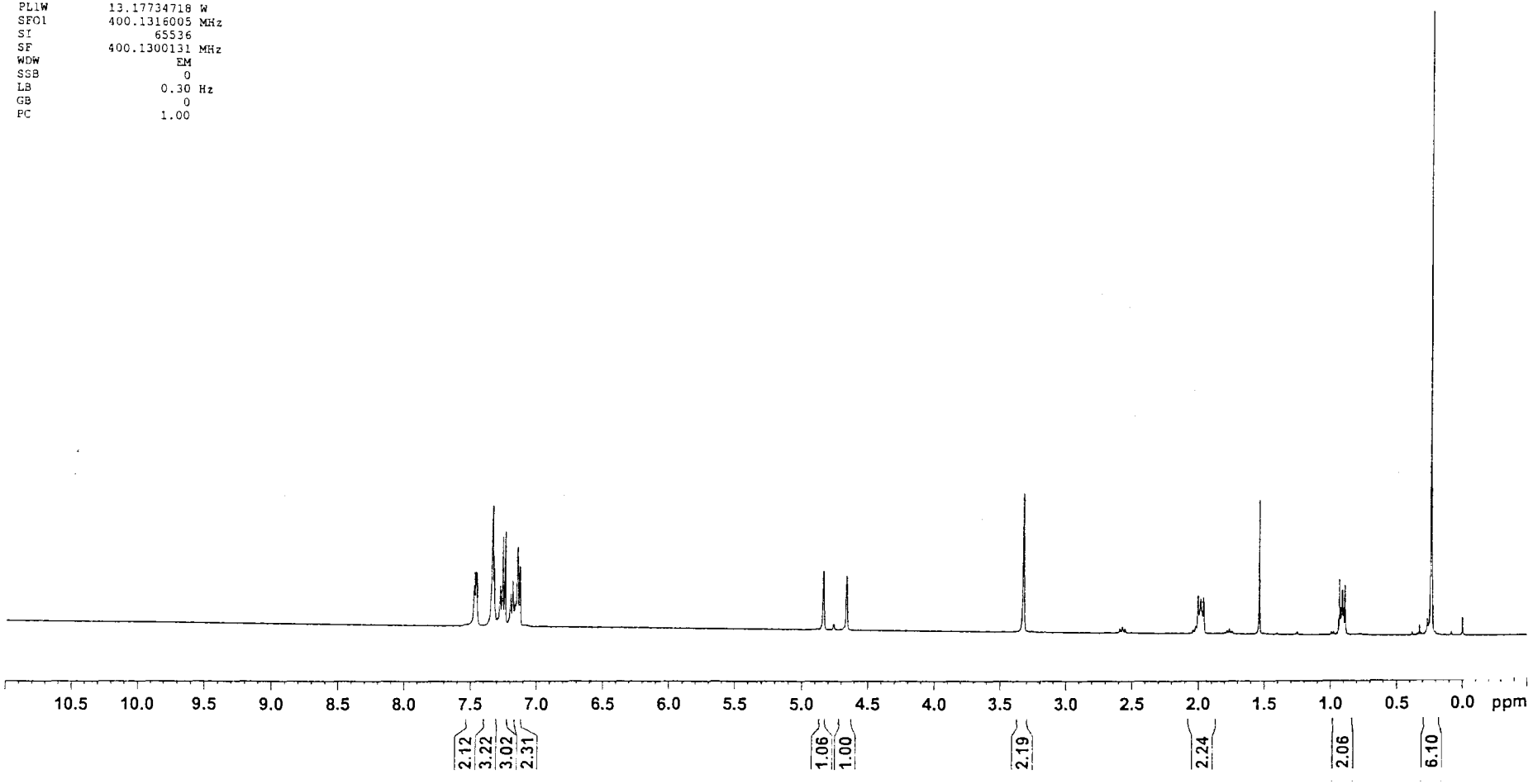
+ ph SiEt3

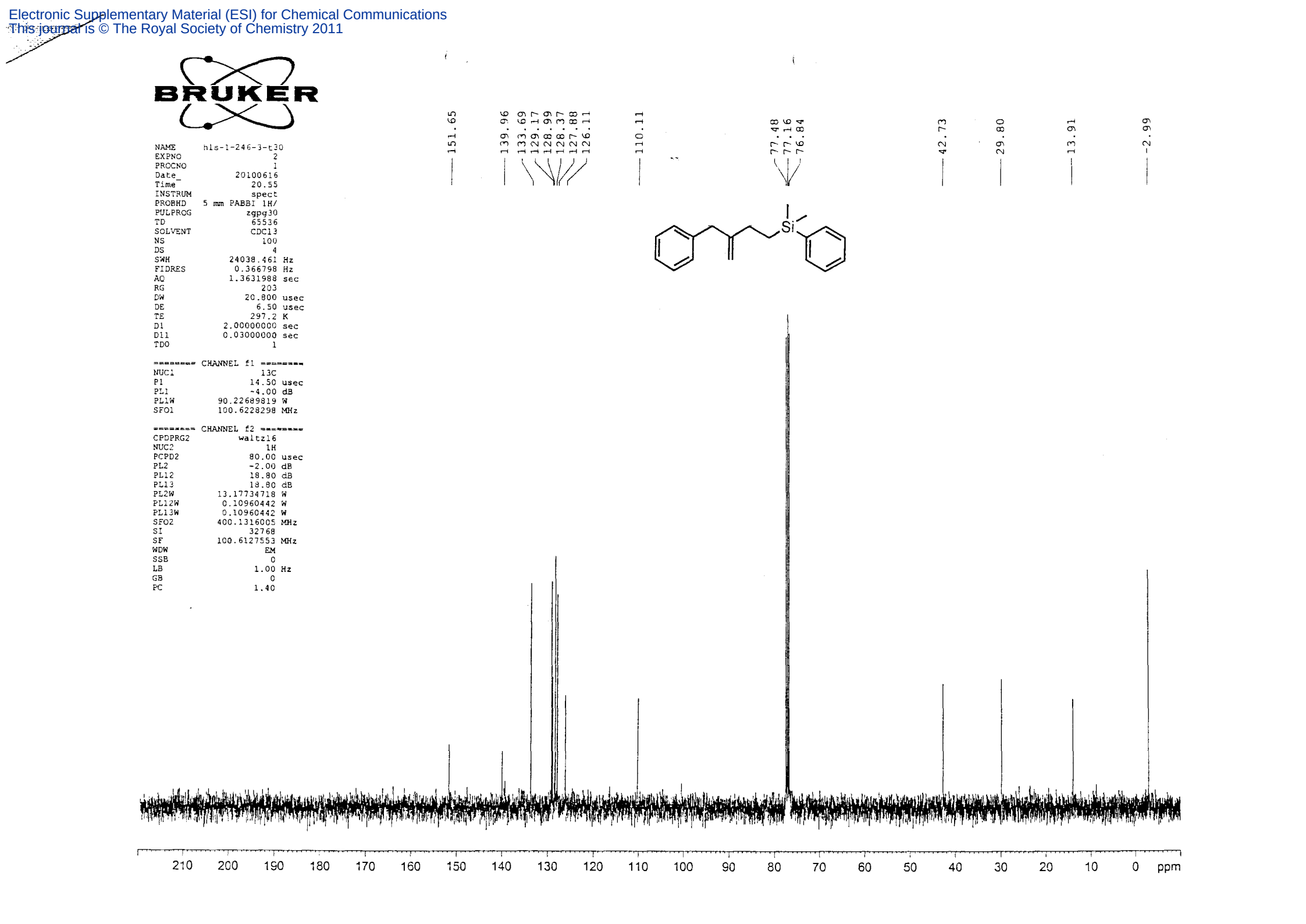
ratio 1 : 3



NAME	hls-1-246-3-t30
EXPNO	1
PROCNO	1
Date_	20100616
Time	20.08
INSTRUM	spect
PROBHD	5 mm PABBI 1H/
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	2
DS	0
SWH	10000.000 Hz
FIDRES	0.152588 Hz
AQ	3.2768500 sec
RG	80.6
DW	50.000 usec
DE	6.50 usec
TE	297.2 K
D1	5.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	1H
P1	7.10 usec
PL1	-2.00 dB
PL1W	13.17734718 W
SFO1	400.1316005 MHz
SI	65536
SF	400.1300131 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00



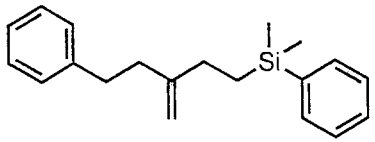


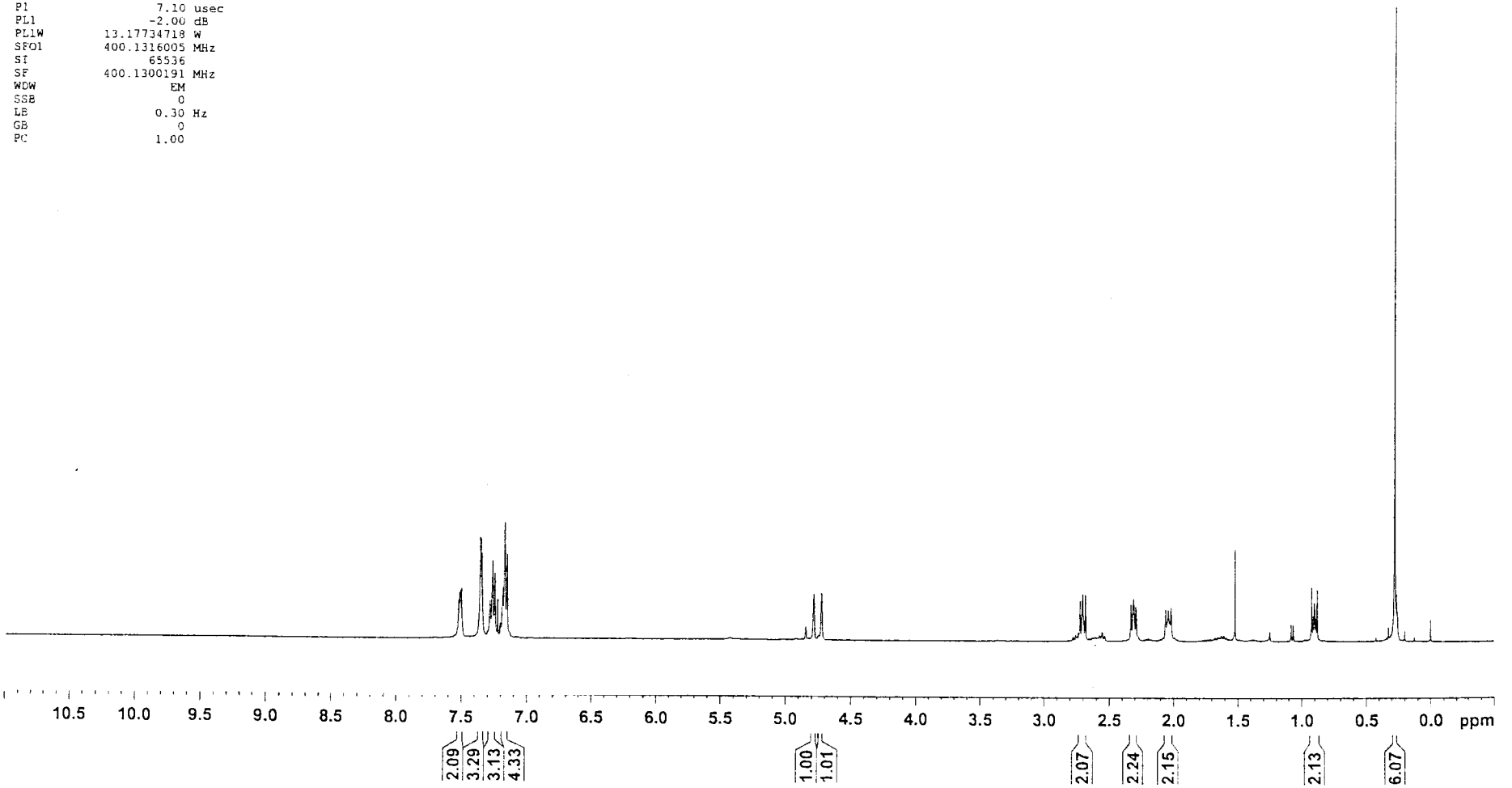


NAME	his-1-238-3-t2526
EXPNO	1
PROCNO	1
Date_	20100526
Time	20.11
INSTRUM	spect
PROBHD	5 mm PABBI 1H/
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	11
DS	0
SWH	10000.000 Hz
FIDRES	0.152588 Hz
AQ	3.2768500 sec
RG	50.8
DW	50.000 usec
DE	6.50 usec
TE	294.4 K
D1	5.00000000 sec
TD0	1

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

NUC1	1H
P1	7.10 usec
PL1	-2.00 dB
PL1W	13.17734718 W
SFO1	400.1316005 MHz
SI	65536
SF	400.1300191 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

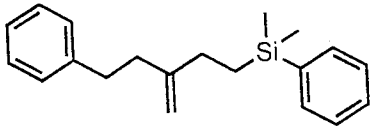


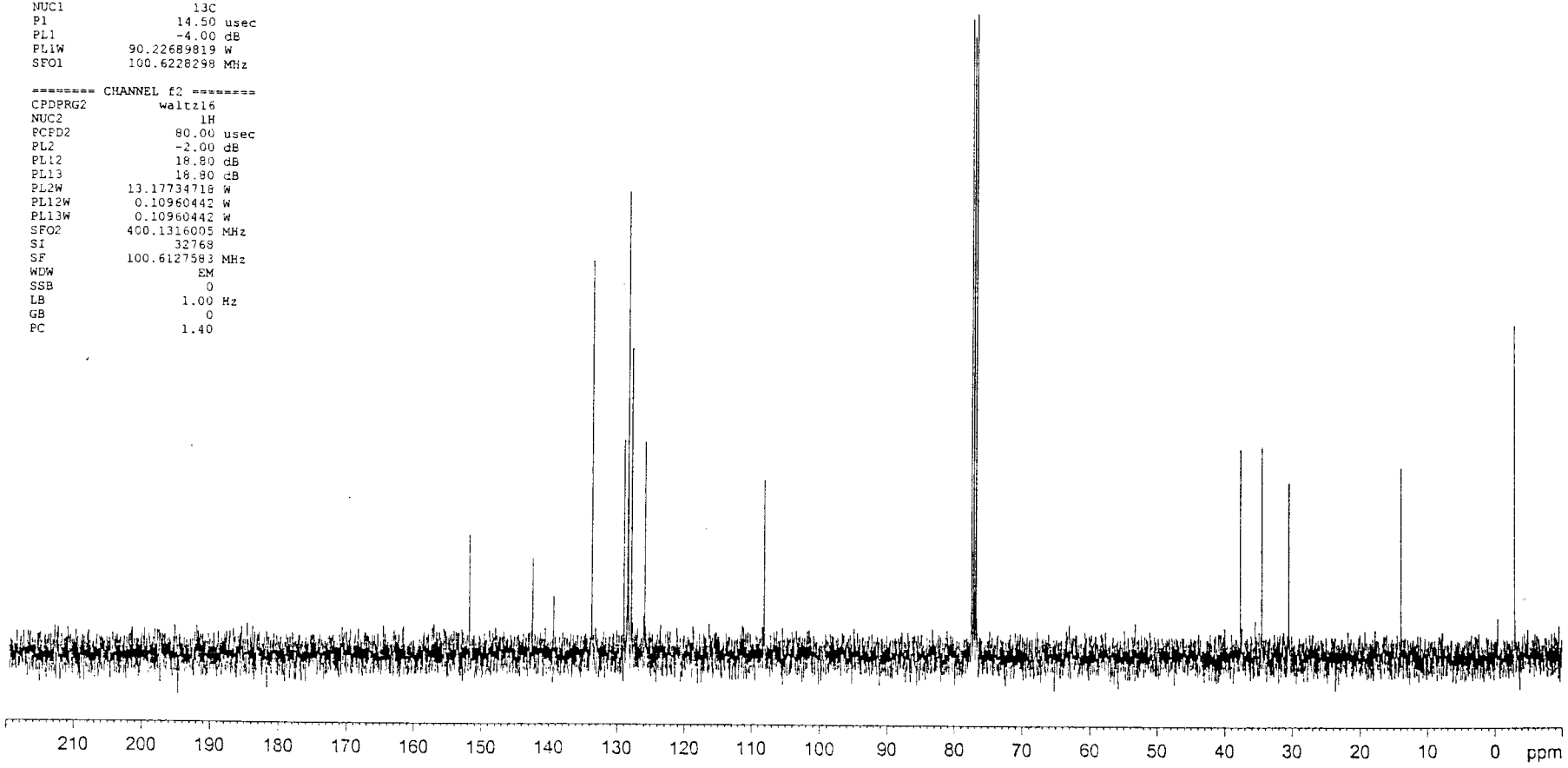


BRUKER

NAME	hls-1-238-3-t2526
EXPNO	2
PROCNO	1
Date_	20100526
Time	21.28
INSTRUM	spect
PROBHD	5 mm PABBI 1H/
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	46
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	203
DW	20.800 usec
DE	6.50 usec
TE	295.2 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	14.50 usec
PL1	-4.00 dB
PL1W	90.22689819 W
SFO1	100.6228298 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	80.00 usec
PL2	-2.00 dB
PL12	18.80 dB
PL13	18.80 dB
PL2W	13.17734718 W
PL12W	0.10960442 W
PL13W	0.10960442 W
SFO2	400.1316005 MHz
SI	32768
SF	100.6127583 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

151.79, 142.43, 139.29, 133.70, 129.02, 128.45, 128.42, 127.90, 125.89, 108.14, 77.47, 77.16, 76.84, 37.71, 34.51, 30.53, 13.94, -2.99

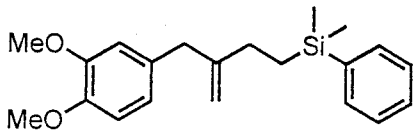


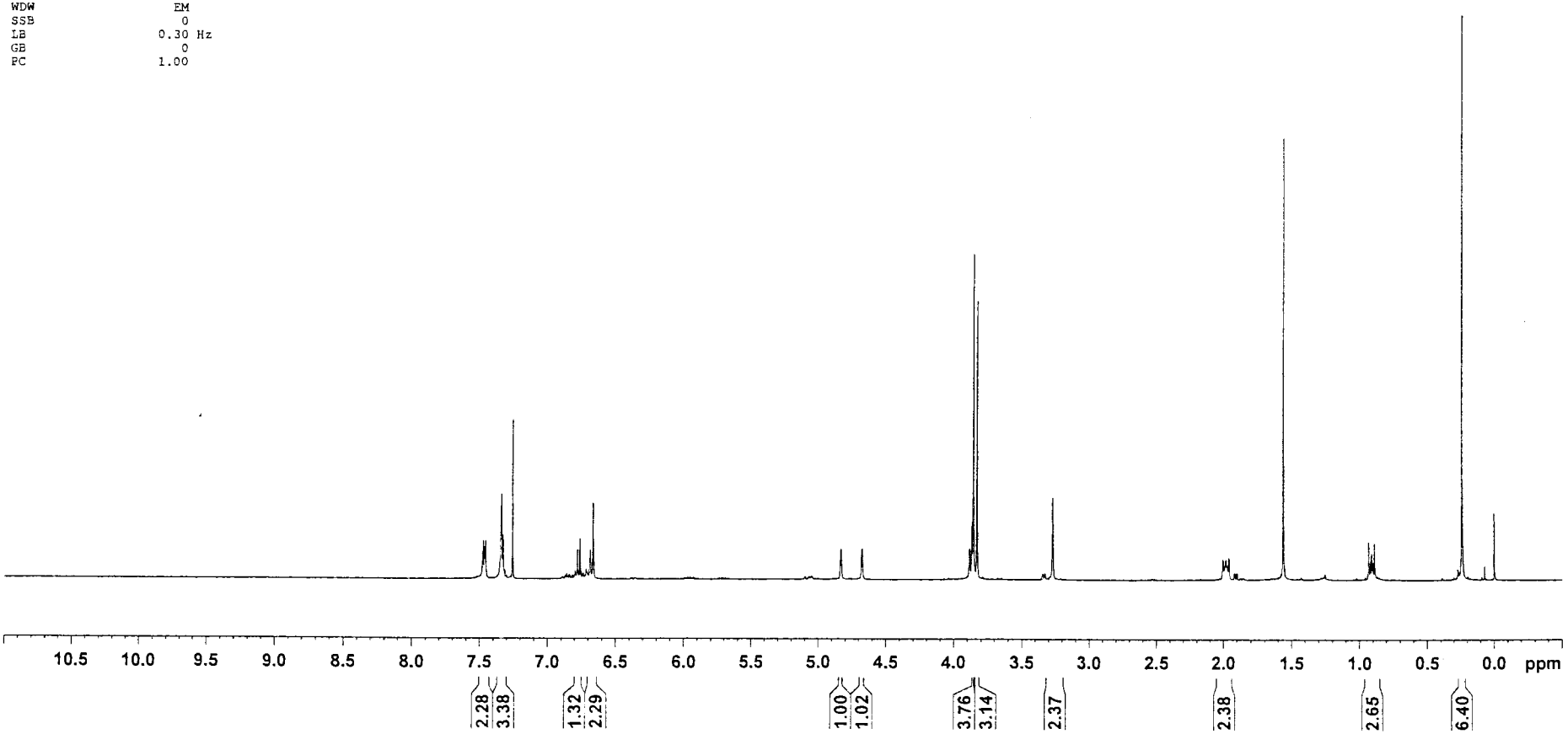


NAME	hls-2-17-2-t15
EXPNO	1
PROCNO	1
Date_	20101009
Time	12.30
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	2
DS	1
SWH	8223.685 Hz
FIDRES	0.125483 Hz
AQ	3.9846387 sec
RG	128
DW	60.800 usec
DE	6.50 usec
TE	298.3 K
D1	5.00000000 sec
TD0	1

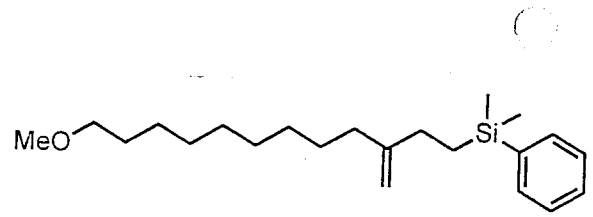
======== CHANNEL f1 ========

NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1924713 MHz
SI	32768
SF	400.1900147 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

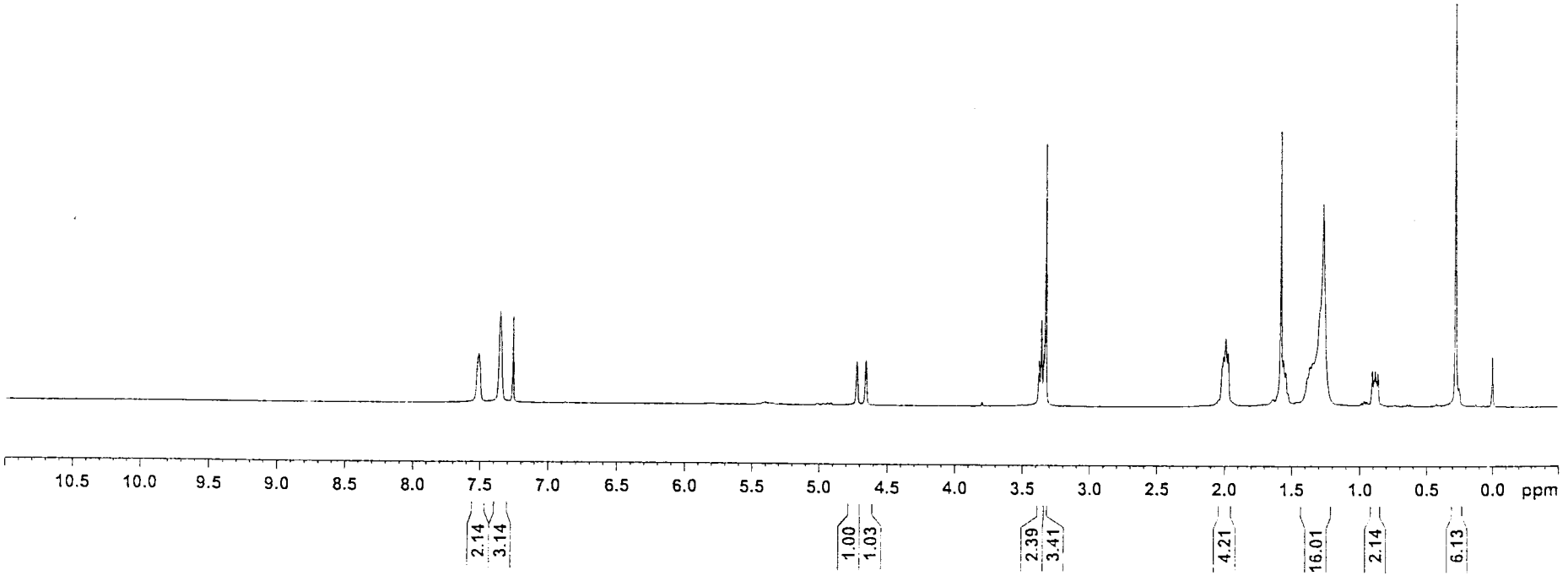


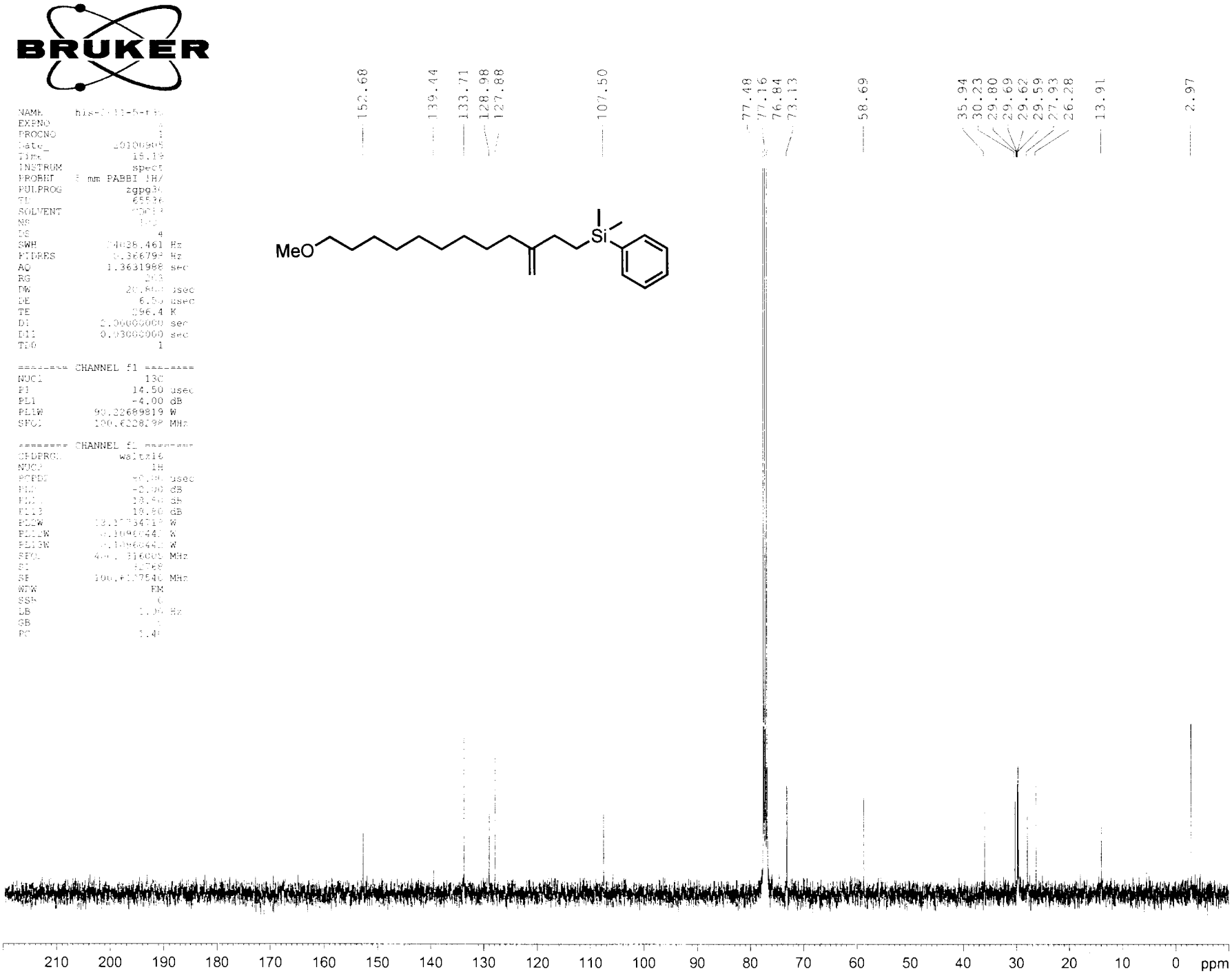


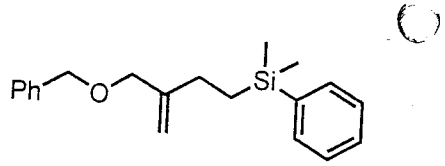
```
NAME        hls-2-17-2-t15
EXPNO                   2
PROCNO                  1
Date_            20101009
Time                13.18
INSTRUM             spect
PROBHD   5 mm PABBO BB-
PULPROG           zgpg30
TD                 65536
SOLVENT             CDCl3
NS                    709
DS                      4
SWH             24038.461 Hz
FIDRES          0.366798 Hz
AQ              1.3631988 sec
RG                    181
DW                20.800 usec
DE                 6.50 usec
TE                298.7 K
D1             2.00000000 sec
D11            0.03000000 sec
TD0                     1

======== CHANNEL f1 ========
NUC1                  13C
P1                   9.90 usec
PL1                 -2.00 dB
PL1W          55.33689499 W
SFO1         100.6379183 MHz

======== CHANNEL f2 ========
CPDPRG2           waltz16
NUC2                  1H
PCPD2               90.00 usec
PL2                 -1.00 dB
PL12                15.16 dB
PL13                18.62 dB
PL2W          13.56617069 W
PL12W          0.32844096 W
PL13W          0.14806664 W
SFO2         400.1916008 MHz
SI                  32768
SF           100.6278427 MHz
WDW                    EM
SSB                     0
LB                   1.00 Hz
GB                      0
PC                   1.40
```



NAME	his-2-11-5-t30	
EXPNO	1	
PROCNO	1	
Date_	20100905	
Time	18.14	
INSTRUM	spect	
PROBHD	5 mm PABBI 1H/	
PULPROG	zg30	
TD	65536	
SOLVENT	CDCl3	
NS	8	
DS	0	
SWH	10000.000	Hz
FIDRES	0.152588	Hz
AQ	3.2768500	sec
RG	203	
DW	50.000	usec
DE	6.50	usec
TE	298.3	K
D1	5.00000000	sec
TD0	1	
======== CHANNEL f1 ========		
NUC1	1H	
P1	7.10	usec
PL1	-2.00	dB
PL1W	13.17734718	W
SFO1	400.1316005	MHz
SI	65536	
SF	400.1300051	MHz
WDW	EM	
SSB	0	
LB	0.30	Hz
GB	0	
PC	1.00	



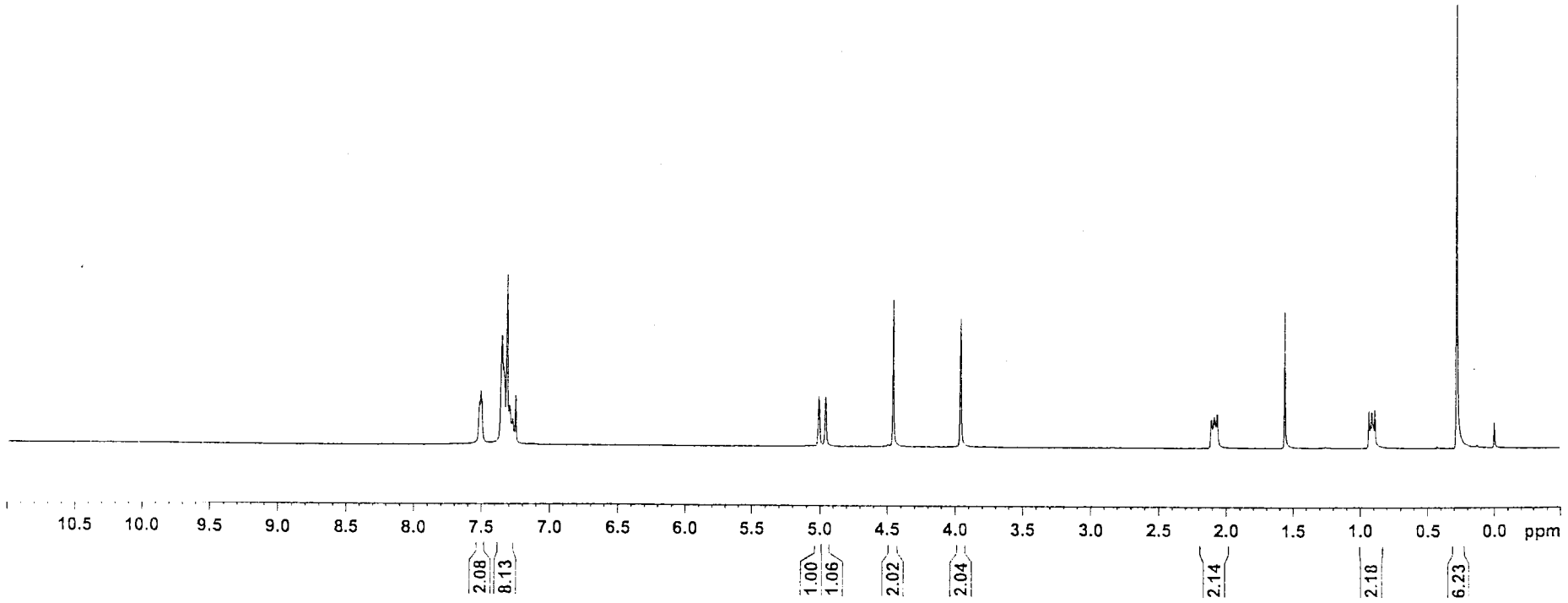


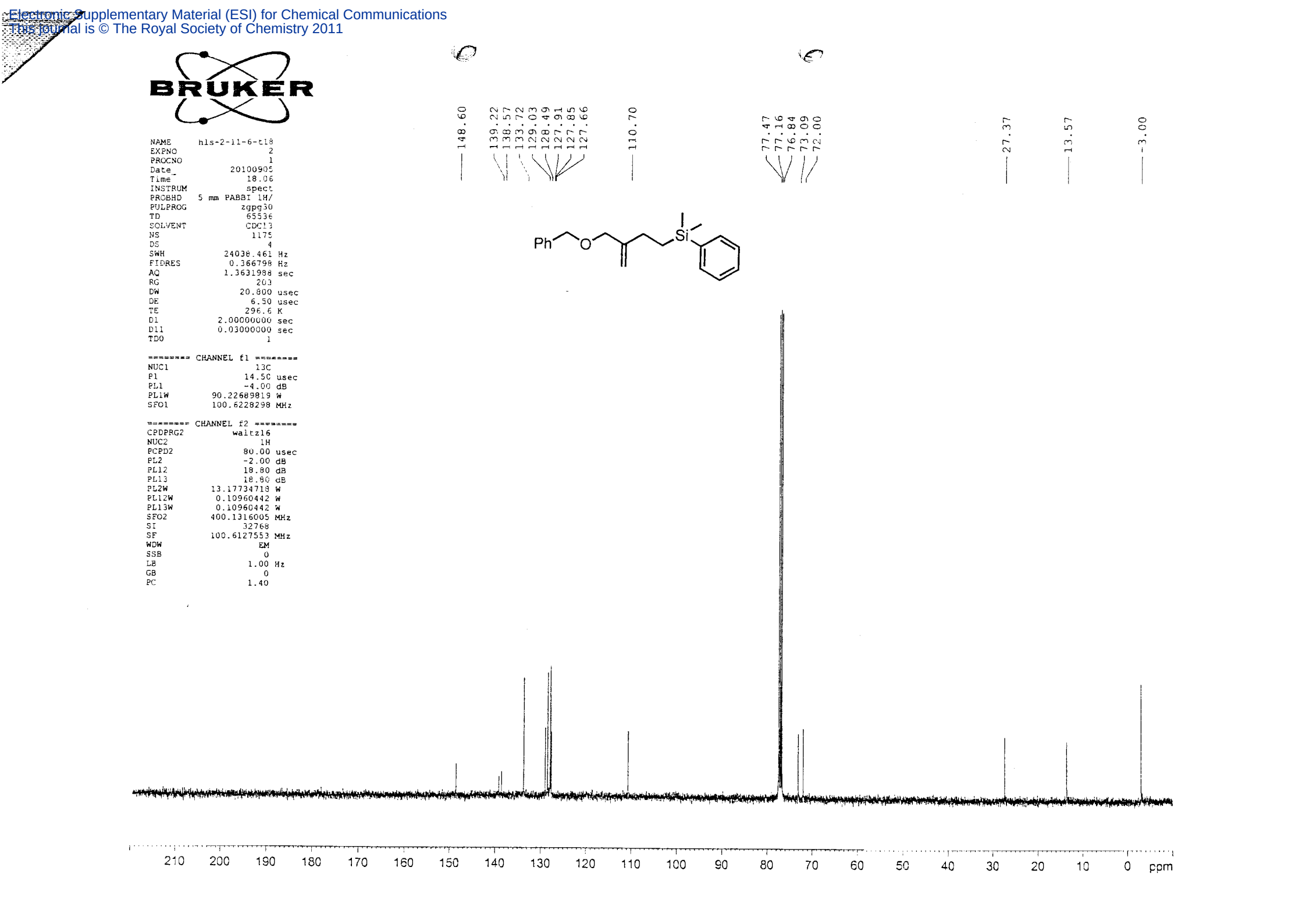


NAME	hls-2-11-6-t10
EXPNO	1
PROCNO	1
Date_	20100905
Time	17.57
INSTRUM	spect
PROBHD	5 mm PABBI 1H/
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	8
DS	0
SWH	10000.000 Hz
FIDRES	0.152588 Hz
AQ	3.2768500 sec
RG	114
DW	50.000 usec
DE	6.50 usec
TE	296.4 K
D1	5.00000000 sec
TD0	1

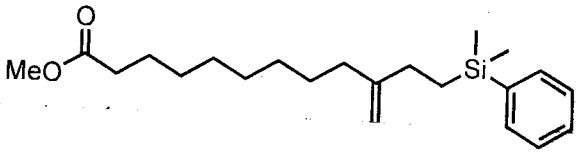
======== CHANNEL f1 ========

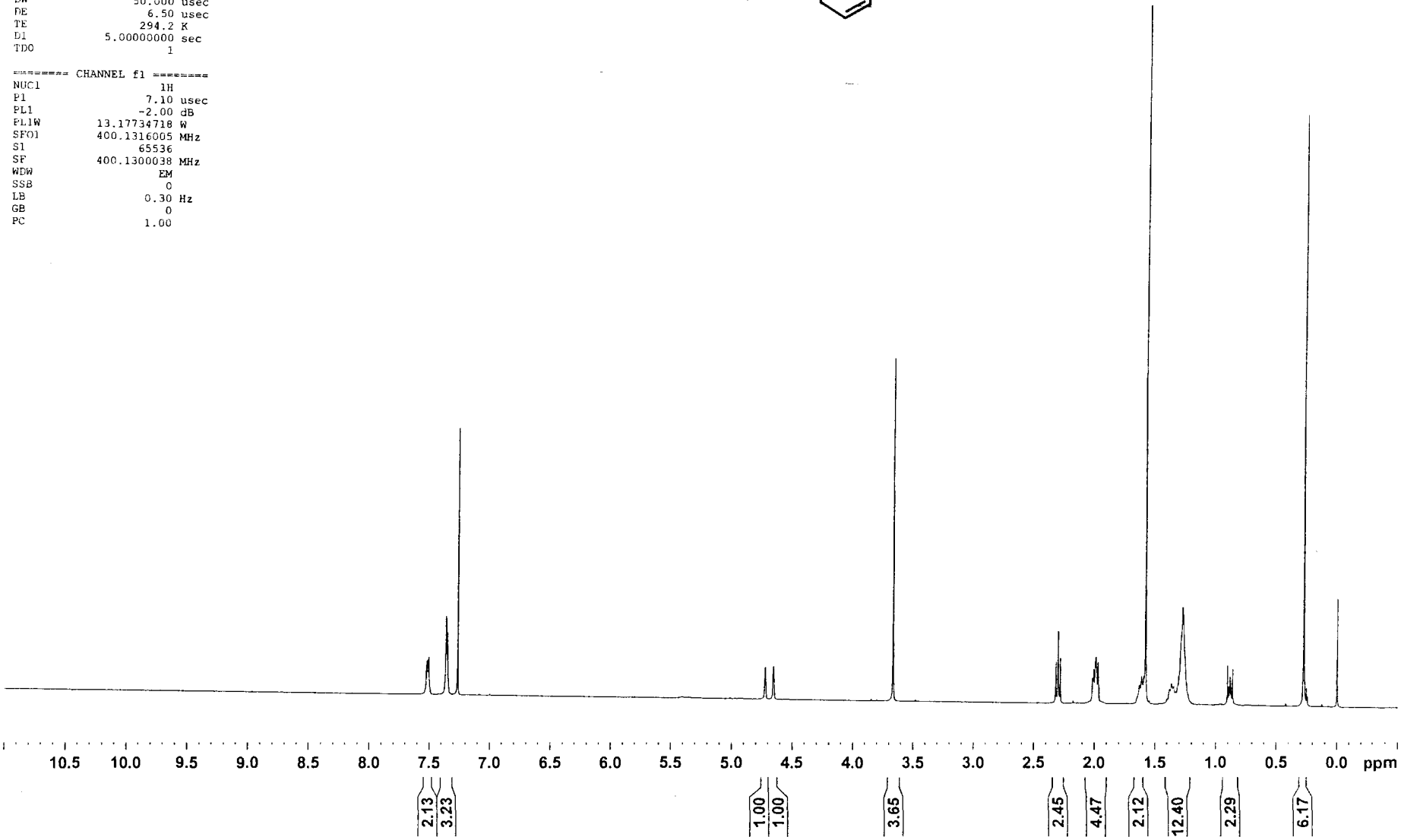
NUC1	1H
P1	7.10 usec
PL1	-2.00 dB
PL1W	13.17734718 W
SFO1	400.1316005 MHz
SI	65536
SF	400.1300081 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

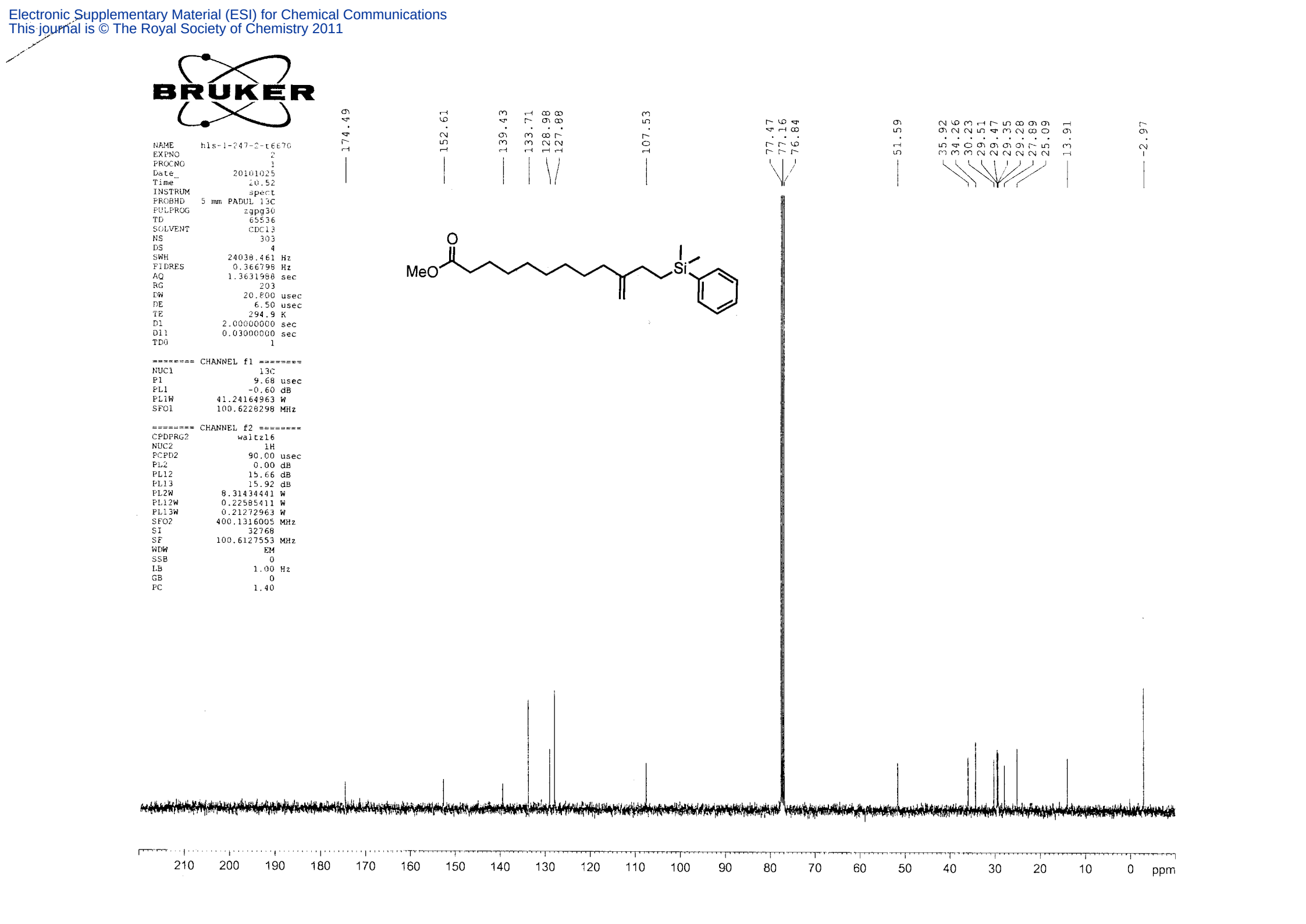




NAME	hls-1-247-2-t65
EXPNO	1
PROCNO	1
Date_	20100618
Time	16.05
INSTRUM	spect
PROBHD	5 mm PABBI 1H/
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	6
DS	0
SWH	10000.000 Hz
FIDRES	0.152588 Hz
AQ	3.2768500 sec
RG	203
DW	50.000 usec
DE	6.50 usec
TE	294.2 K
D1	5.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	1H
P1	7.10 usec
PL1	-2.00 dB
PL1W	13.17734718 W
SFO1	400.1316005 MHz
SI	65536
SF	400.1300038 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

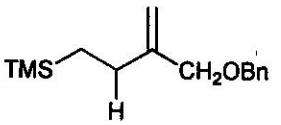






NAME	hls-2-109-6-t 25
EXPNO	1
PROCNO	1
Date_	20110411
Time	23.34
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	7
DS	0
SWH	8223.685 Hz
FIDRES	0.125483 Hz
AQ	3.9846387 sec
RG	71.8
DW	60.800 usec
DE	6.50 usec
TE	296.3 K
D1	2.00000000 sec
TD0	1

======== CHANNEL f1 ========	
NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1924713 MHz
SI	32768
SF	400.1900141 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00



NAME	hls-2-109-6-t 25
EXPNO	2
PROCNO	1
Date_	20110411
Time	23.41
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	93
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	161
DW	20.800 usec
DE	6.50 usec
TE	296.9 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1

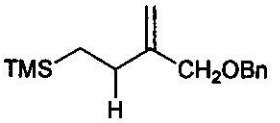
======== CHANNEL f1 ========

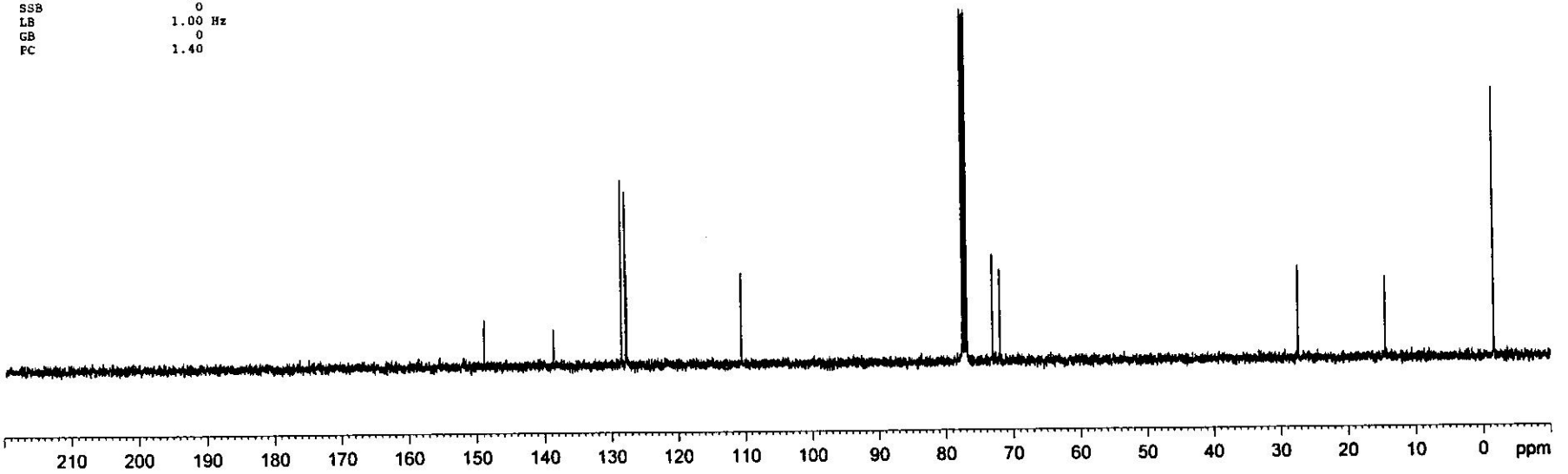
NUC1	13C
P1	9.90 usec
PL1	-2.00 dB
PL1W	55.33689499 W
SFO1	100.6379183 MHz

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

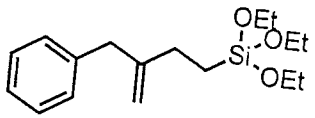
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	-1.00 dB
PL12	15.16 dB
PL13	18.62 dB
PL2W	13.56617069 W
PL12W	0.32844096 W
PL13W	0.14806664 W
SFO2	400.1916008 MHz
SI	32768
SF	100.6278434 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

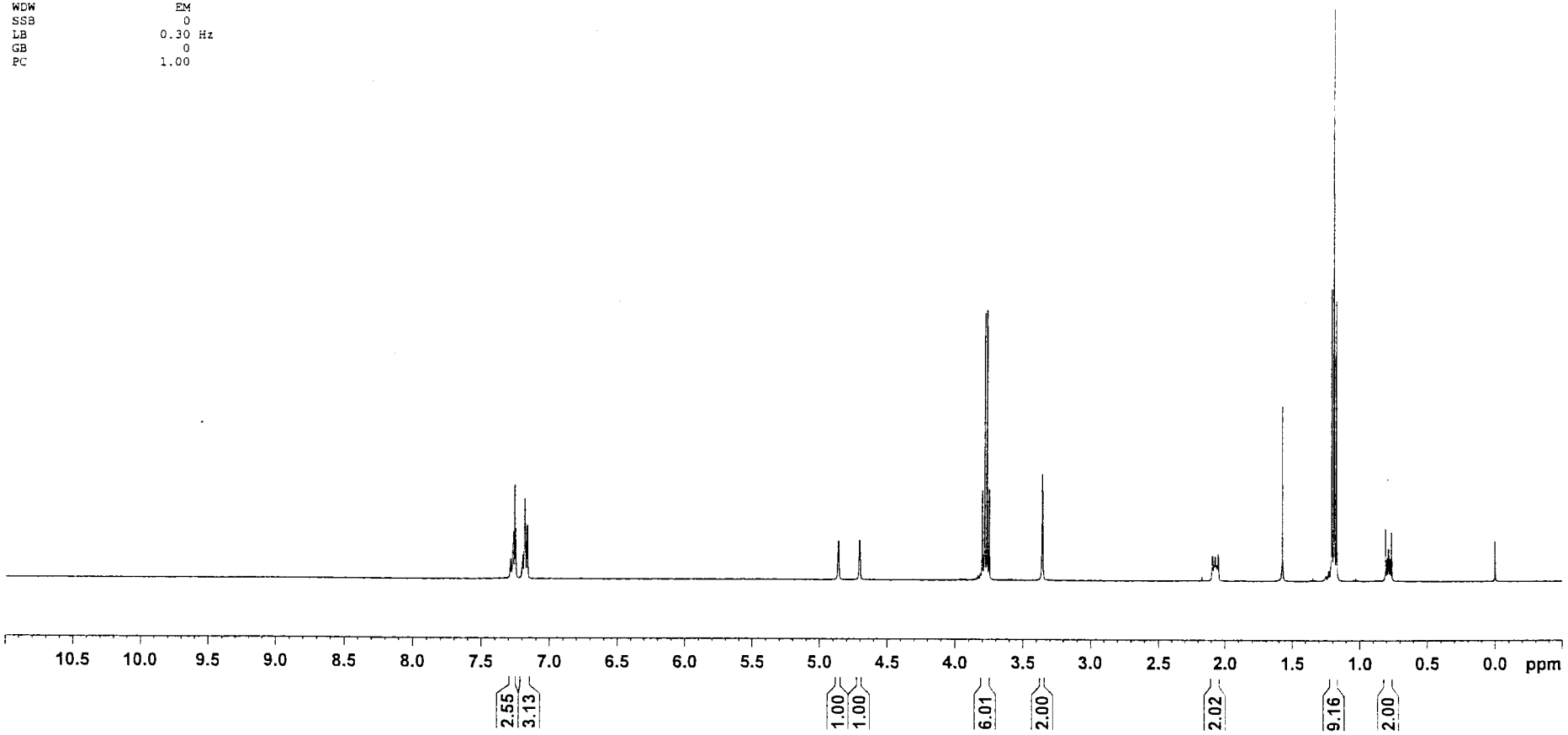
148.87
138.64
128.50
127.85
127.67
110.55
77.48
77.16
76.85
73.11
72.01
27.46
14.52
-1.62





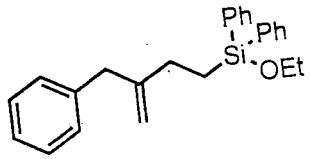
NAME	hls-2-27-1b-t25	
EXPNO	1	
PROCNO	1	
Date_	20101013	
Time	12.33	
INSTRUM	spect	
PROBHD	5 mm PABBO BB-	
PULPROG	zg30	
TD	65536	
SOLVENT	CDCl3	
NS	4	
DS	1	
SWH	8223.685	Hz
FIDRES	0.125483	Hz
AQ	3.9846387	sec
RG	90.5	
DW	60.800	usec
DE	6.50	usec
TE	298.0	K
D1	5.00000000	sec
TD0	1	
======== CHANNEL f1 ========		
NUC1	1H	
P1	14.00	usec
PL1	-1.00	dB
PL1W	13.56617069	W
SFO1	400.1924713	MHz
SI	32768	
SF	400.1900148	MHz
WDW	EM	
SSB	0	
LB	0.30	Hz
GB	0	
PC	1.00	

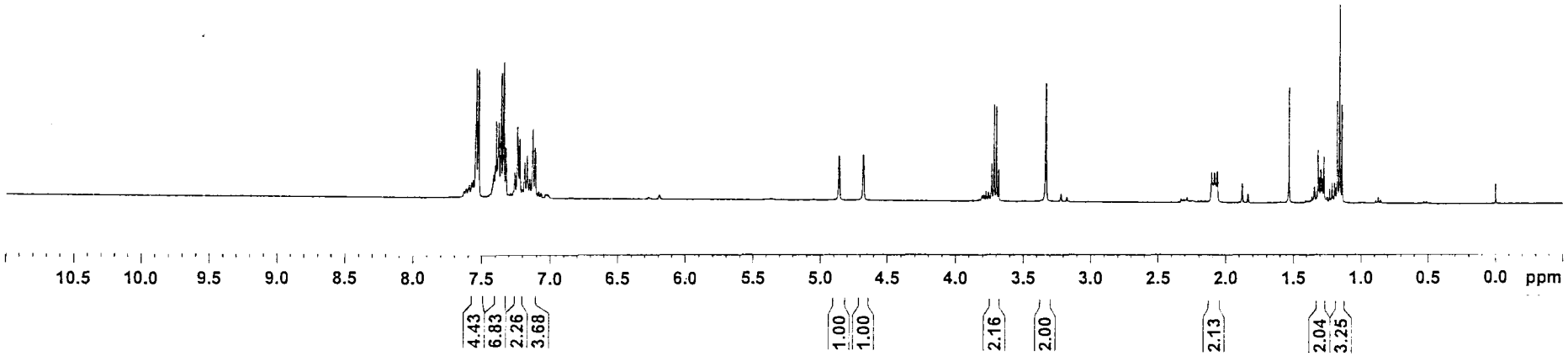




NAME	hls-2-27-1b-t25
EXPNO	2
PROCNO	1
Date_	20101013
Time	12.39
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	70
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	181
DW	20.800 usec
DE	6.50 usec
TE	298.6 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	9.90 usec
PL1	-2.00 dB
PL1W	55.33689499 W
SFO1	100.6379183 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	-1.00 dB
PL12	15.16 dB
PL13	18.62 dB
PL2W	13.56617069 W
PL12W	0.32844096 W
PL13W	0.14806664 W
SFO2	400.1916008 MHz
SI	32768
SF	100.6278427 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

NAME	hls-2-24-3-t29
EXPNO	1
PROCNO	1
Date_	20101018
Time	17.48
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	3
DS	2
SWH	8223.685 Hz
FIDRES	0.125483 Hz
AQ	3.9846387 sec
RG	45.2
DW	60.800 usec
DE	6.50 usec
TE	298.7 K
D1	5.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1924713 MHz
SI	32768
SF	400.1900248 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00





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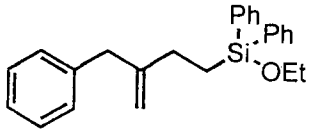
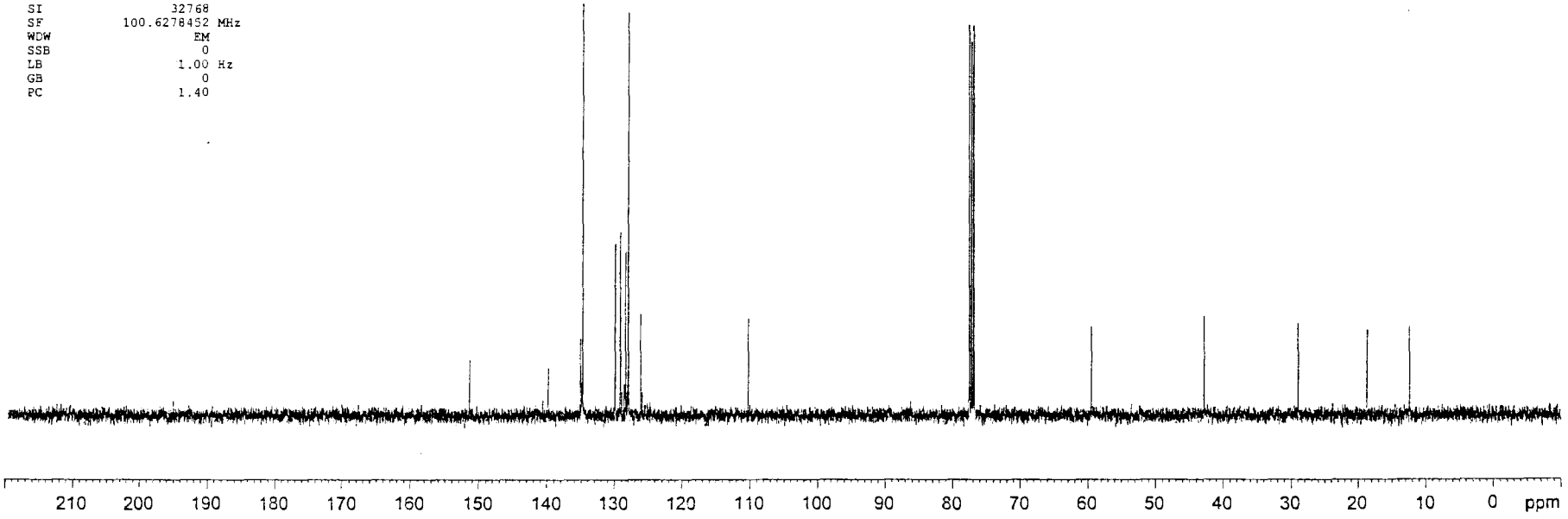
NAME	hls-2-24-3-t29
EXPNO	2
PROCNO	1
Date_	20101018
Time	18.45
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	41
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	161
DW	20.800 usec
DE	6.50 usec
TE	298.9 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	9.90 usec
PL1	-2.00 dB
PL1W	55.33689499 W
SFO1	100.6379183 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	-1.00 dB
PL12	15.16 dB
PL13	18.62 dB
PL2W	13.56617069 W
PL12W	0.32844096 W
PL13W	0.14806664 W
SFO2	400.1916008 MHz
SI	32768
SF	100.6278452 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

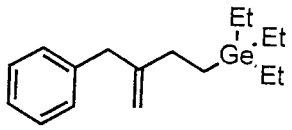
151.40, 139.85, 135.12, 134.77, 129.93, 129.18, 128.37, 127.98, 126.12, 110.24, 77.48, 77.16, 76.84, 59.41, 42.74, 28.89, 18.50, 12.33

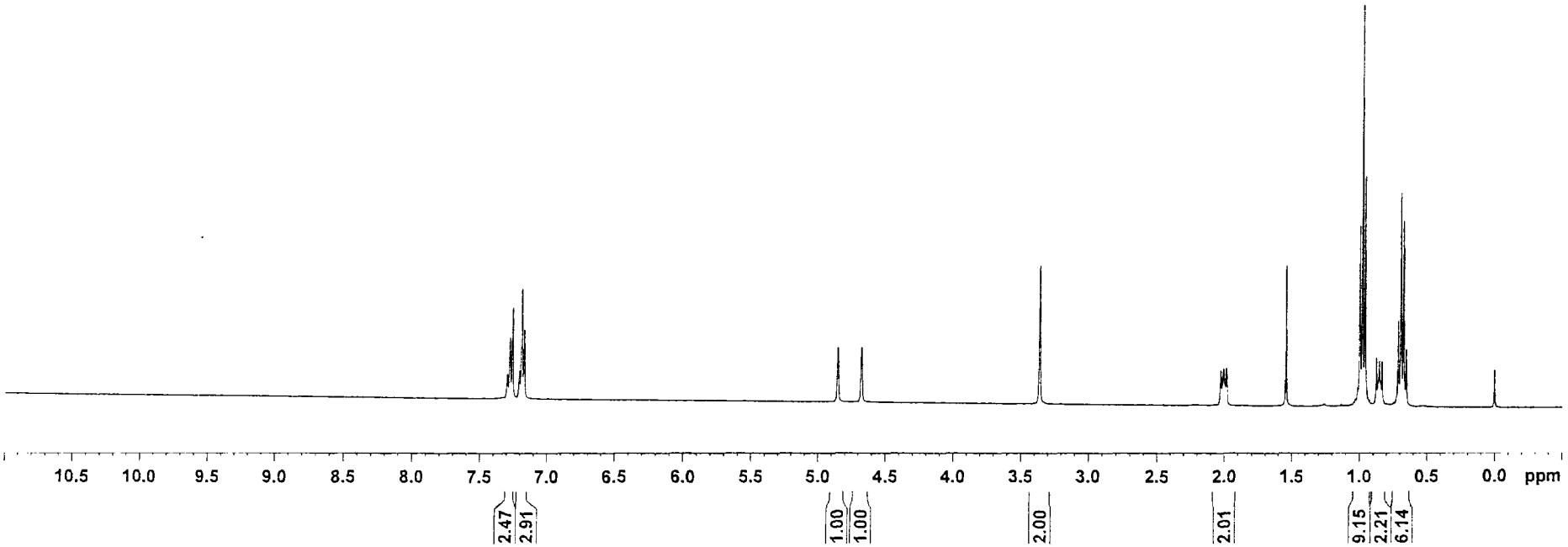




NAME	hls-2-26 3c t12
EXPNO	1
PROCNO	1
Date_	20101011
Time	13.10
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	7
DS	1
SWH	8223.685 Hz
FIDRES	0.125483 Hz
AQ	3.9846387 sec
RG	114
DW	60.800 usec
DE	6.50 usec
TE	298.8 K
D1	1.00000000 sec
TD0	1

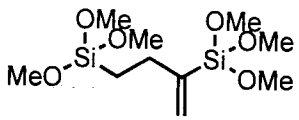
======== CHANNEL f1 ========	
NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1924713 MHz
SI	32768
SF	400.1900160 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

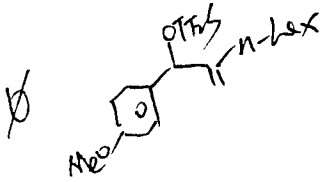




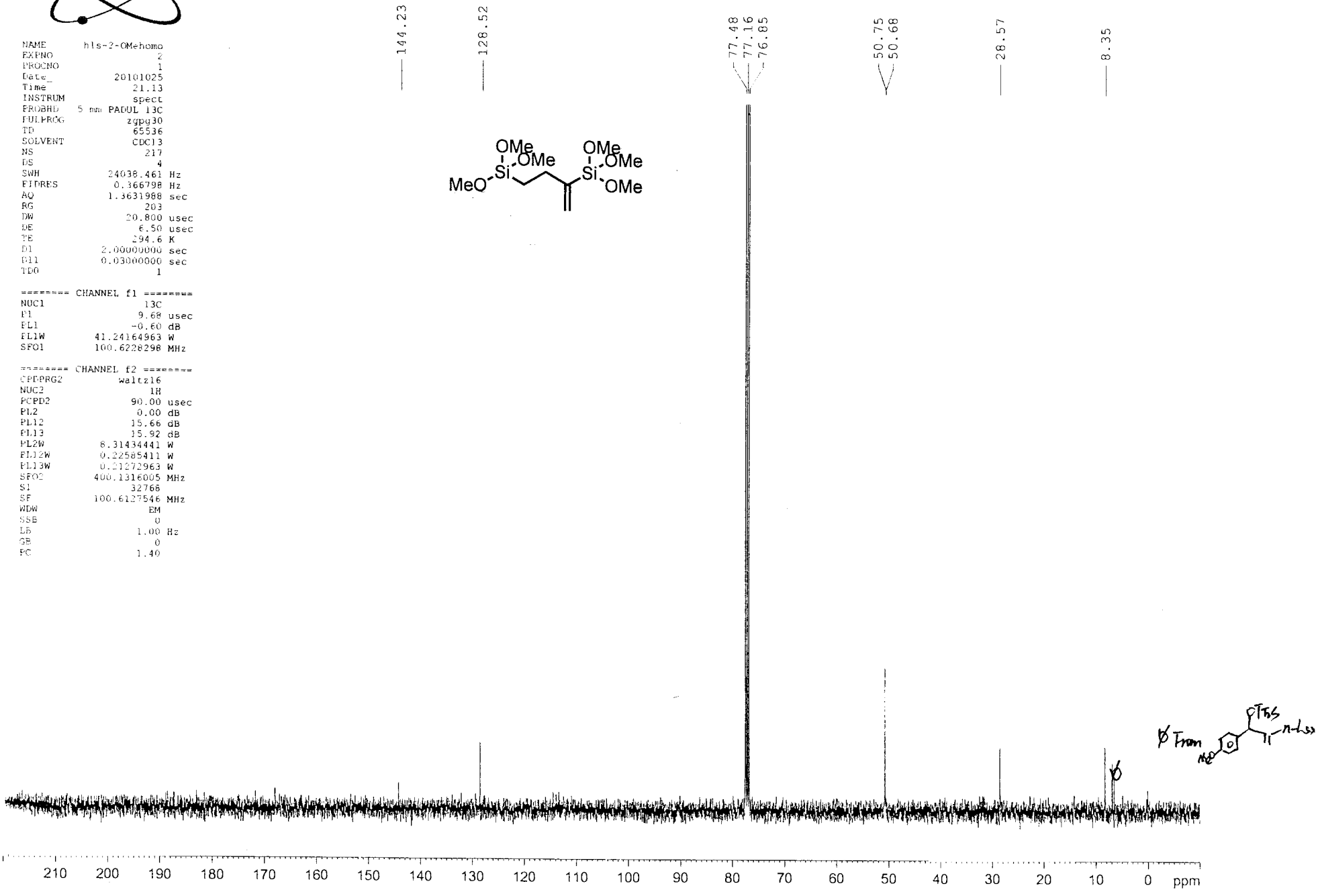
NAME	hls-2-26 3c t12
EXPNO	2
PROCNO	1
Date_	20101011
Time	13.19
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	154
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	228
DW	20.800 usec
DE	6.50 usec
TE	299.1 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	9.90 usec
PL1	-2.00 dB
PL1W	55.33689499 W
SFO1	100.6379183 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	-1.00 dB
PL12	15.16 dB
PL13	18.62 dB
PL2W	13.56617069 W
PL12W	0.32844096 W
PL13W	0.14806664 W
SFO2	400.1916008 MHz
SI	32768
SF	100.6278427 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

NAME	bis-2-OMehomo
EXPNO	1
PROCNO	1
Date_	20101025
Time	21.11
INSTRUM	spect
PROBHD	5 mm PADUL 13C
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	6
DS	0
SWH	10000.000 Hz
FIDRES	0.152588 Hz
AQ	3.2768500 sec
RG	203
DW	50.000 usec
DE	6.50 usec
TE	294.6 K
D1	5.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	1H
P1	14.83 usec
PL1	0.00 dB
PL1W	8.31434441 W
SFO1	400.1316005 MHz
SI	65536
SF	400.1300074 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

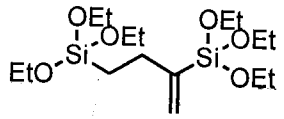




NAME	hls-2-OMehomo
EXPNO	2
PROCNO	1
Date_	20101025
Time	21.13
INSTRUM	spect
PROBHD	5 mm PADUL 13C
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	217
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	203
DW	20.800 usec
DE	6.50 usec
TE	294.6 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	9.68 usec
PL1	-0.60 dB
PL1W	41.24164963 W
SFO1	100.6228298 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	0.00 dB
PL12	15.66 dB
PL13	15.92 dB
PL2W	8.31434441 W
PL12W	0.22585411 W
PL13W	0.21272963 W
SFO2	400.1316005 MHz
SI	32768
SF	100.6127546 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40



```
NAME       bls-2-26-7a-fior2
EXPNO                     1
PROCNO                    1
Date_              20101006
Time                  22.18
INSTRUM               spect
PROBHD    5 mm PABBI 1H/
PULPROG                zg30
TD                    65536
SOLVENT               CDCl3
NS                        5
DS                        0
SWH               10000.000 Hz
FIDRES                0.152588 Hz
AQ                3.2768500 sec
RG                      161
DW                   50.000 usec
DE                    6.50 usec
TE                   294.6 K
D1               5.00000000 sec
TD0                       1

======== CHANNEL f1 ========
NUC1                    1H
P1                    7.10 usec
PL1                  -2.00 dB
PL1W          15.17734718 W
SFO1          400.1316005 MHz
SI                    65536
SF            400.1300032 MHz
WDW                     EM
SSB                      0
LB                    0.30 Hz
GB                       0
PC                    1.00
```



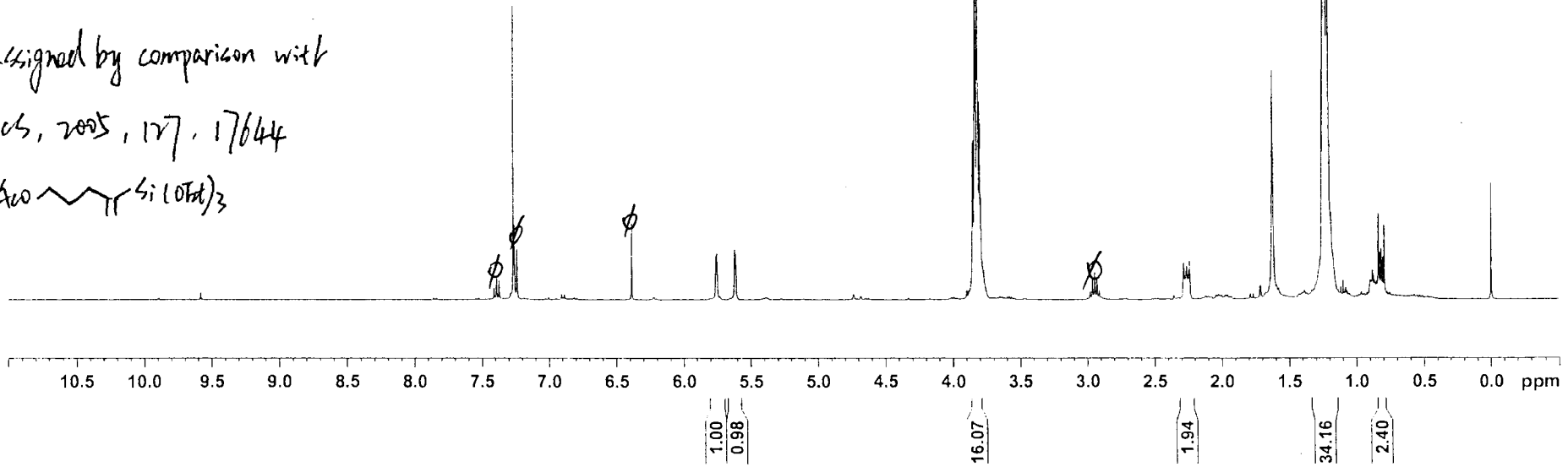
ϕ oxidized IPr

JACS, 2008, 130, 12586

pdt assigned by comparison with

ref: JACS, 2005, 127, 17644

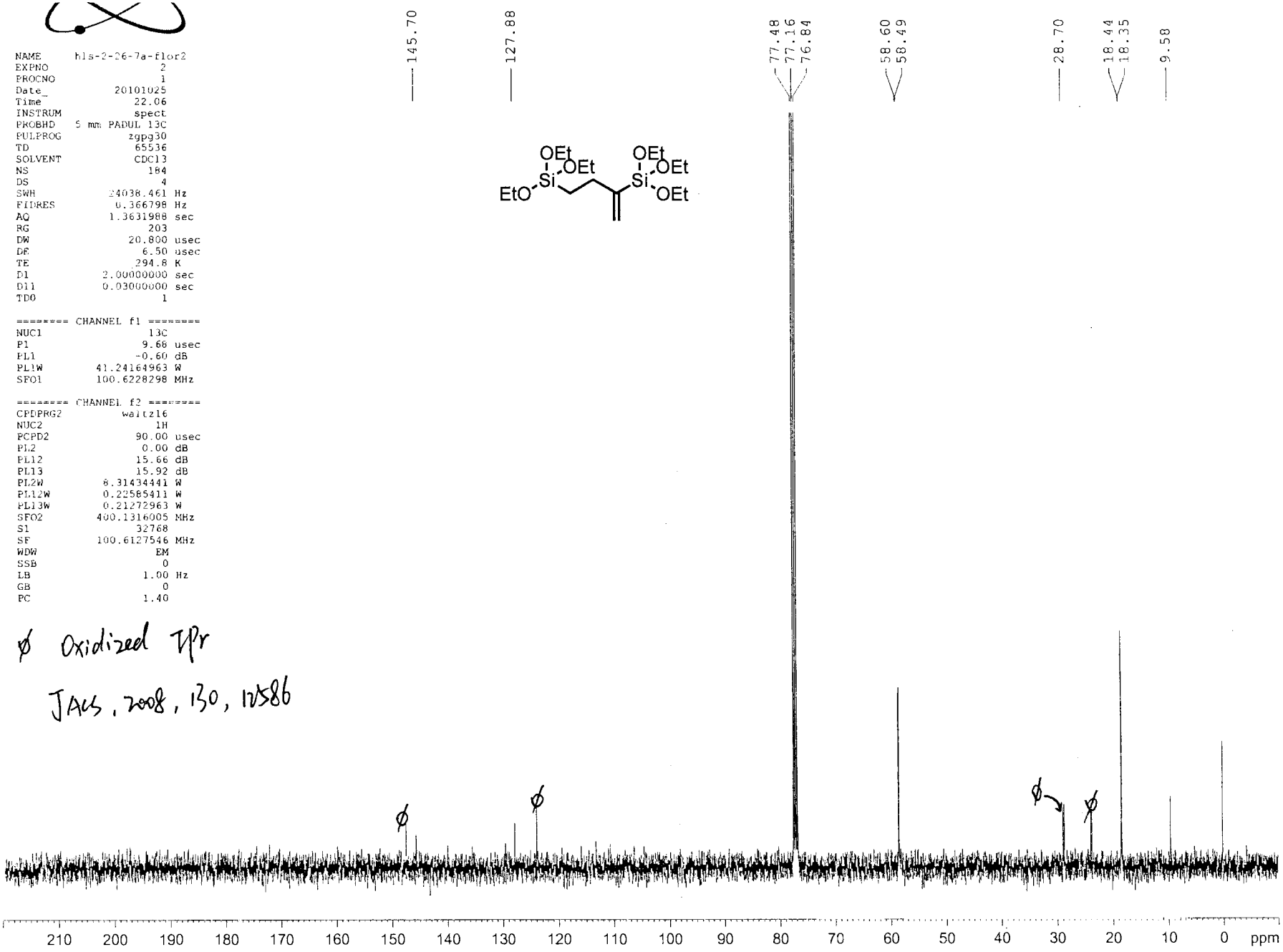
AcO⁄⁄⁄⁄Si(OEt)3



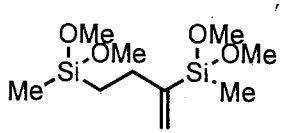
```
NAME        hls-2-26-7a-flor2
EXPNO                       2
PROCNO                      1
Date_              20101025
Time                   22.06
INSTRUM                spect
PROBHD     5 mm PADUL 13C
PULPROG             zgpg30
TD                     65536
SOLVENT                CDCl3
NS                       184
DS                         4
SWH               24038.461 Hz
FIDRES             0.366798 Hz
AQ                1.3631988 sec
RG                       203
DW                  20.800 usec
DE                   6.50 usec
TE                   294.8 K
D1              2.00000000 sec
D11             0.03000000 sec
TD0                        1

======== CHANNEL f1 ========
NUC1                     13C
P1                     9.66 usec
PL1                   -0.60 dB
PL1W          41.24164963 W
SFO1          100.6228298 MHz

======== CHANNEL f2 ========
CPDPRG2             waltz16
NUC2                     1H
PCPD2                90.00 usec
PL2                   0.00 dB
PL12                 15.66 dB
PL13                 15.92 dB
PL2W           8.31434441 W
PL12W          0.22585411 W
PL13W          0.21272963 W
SFO2          400.1316005 MHz
SI                   32768
SF            100.6127546 MHz
WDW                     EM
SSB                      0
LB                    1.00 Hz
GB                       0
PC                    1.40
```

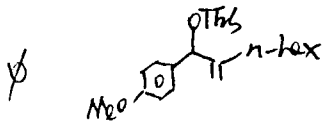
ϕ Oxidized TPr

JACS, 2008, 130, 12586

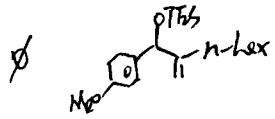


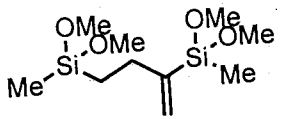
NAME	hls-2-OMe2homo
EXPNO	1
PROCNO	1
Date_	20101025
Time	21.30
INSTRUM	spect
PROBHD	5 mm PADUL 13C
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	14
DS	0
SWH	10000.000 Hz
FIDRES	0.152588 Hz
AQ	3.2768500 sec
RG	203
DW	50.000 usec
DE	6.50 usec
TE	294.4 K
D1	5.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	1H
P1	14.83 usec
PL1	0.00 dB
PL1W	8.31434441 W
SFO1	400.1316005 MHz
SI	65536
SF	400.1300079 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00



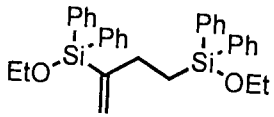


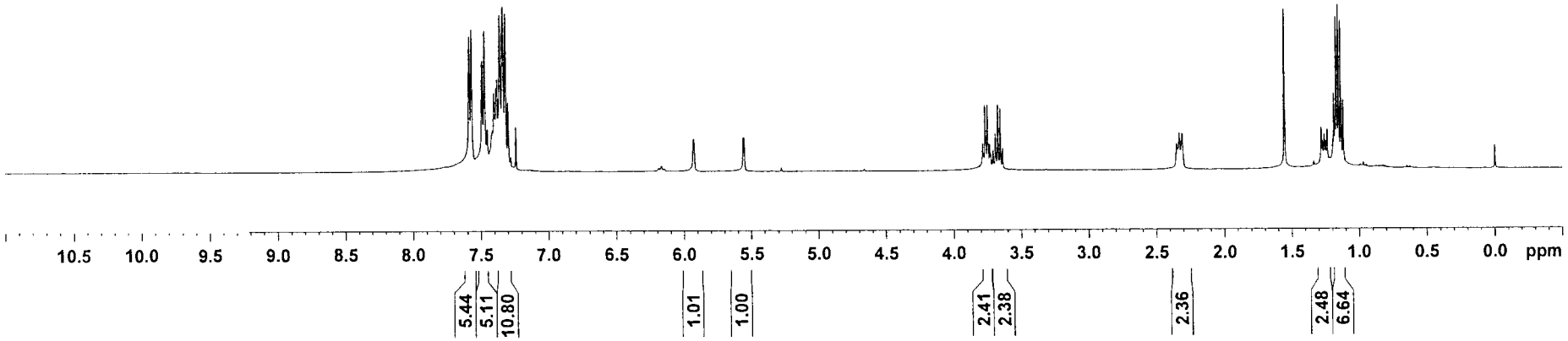
NAME	hls-2-OMe2homo
EXPNO	2
PROCNO	1
Date_	20101025
Time	21.37
INSTRUM	spect
PROBHD	5 mm PADUL 13C
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	546
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	203
DW	20.800 usec
DE	6.50 usec
TE	294.9 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	9.68 usec
PL1	-0.60 dB
PL1W	41.24164963 W
SFO1	100.6228298 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	0.00 dB
PL12	15.66 dB
PL13	15.92 dB
PL2W	8.31434441 W
PL12W	0.22585411 W
PL13W	0.21272963 W
SFO2	400.1316005 MHz
SI	32768
SF	100.6127546 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40



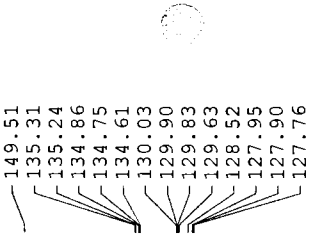


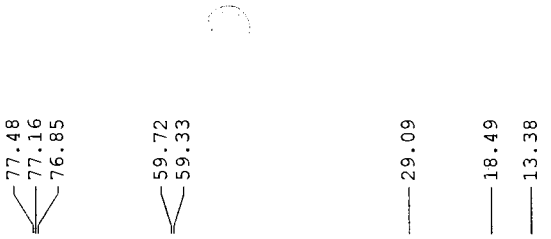
	hls-2-26-2-t32
NO	1
OCNO	1
Date_	20101009
Time	13.41
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	18
DS	1
SWH	8223.685 Hz
FIDRES	0.125483 Hz
AQ	3.9846387 sec
RG	64
DW	60.800 usec
DE	6.50 usec
TE	298.5 K
D1	5.00000000 sec
TD0	1
========	CHANNEL f1 ========
NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1924713 MHz
SI	32768
SF	400.1900218 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

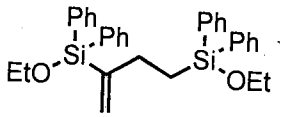


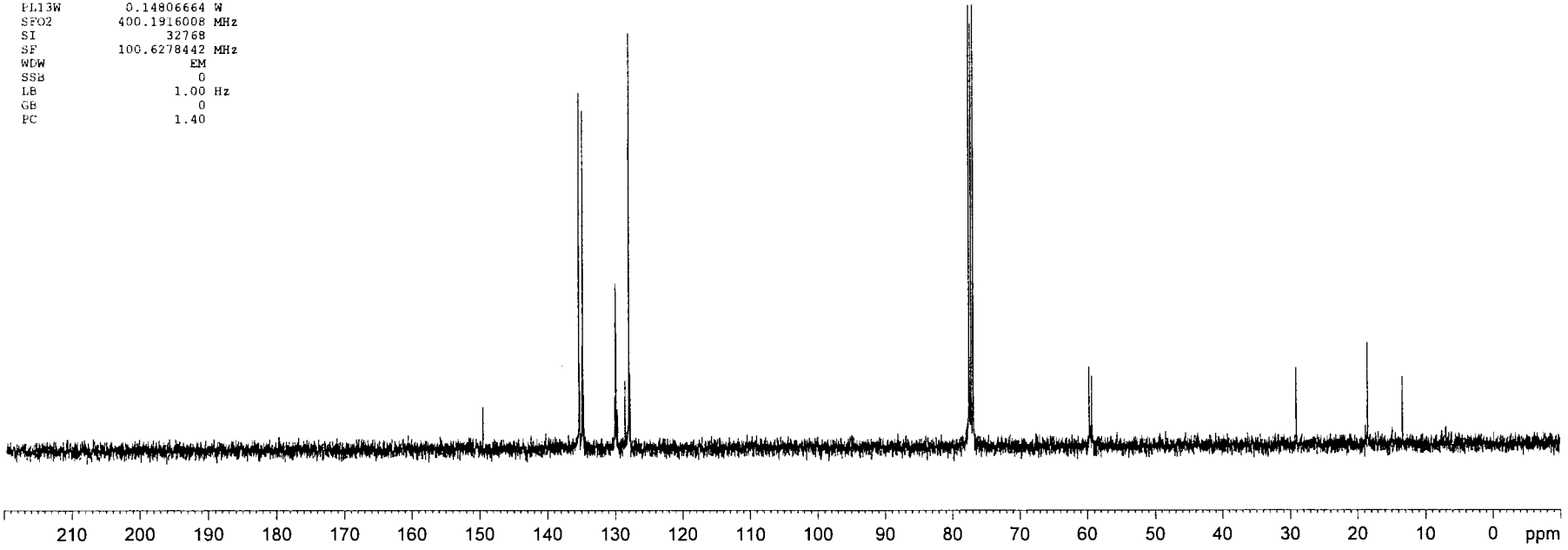


```
NAME        hls-2-26-2-t32
EXPNO                   2
PROCNO                  1
Date_            20101009
Time                13.47
INSTRUM             spect
PROBHD    5 mm PABBO BB-
PULPROG           zgpg30
TD                 65536
SOLVENT            CDCl3
NS                   101
DS                     4
SWH            24038.461 Hz
FIDRES          0.366798 Hz
AQ              1.3631988 sec
RG                   181
DW                20.800 usec
DE                 6.50 usec
TE                299.1 K
D1             2.00000000 sec
D11            0.03000000 sec
TD0                    1

======== CHANNEL f1 ========
NUC1                 13C
P1                  9.90 usec
PL1                -2.00 dB
PL1W         55.33689499 W
SFO1         100.6379183 MHz

======== CHANNEL f2 ========
CPDPRG2          waltz16
NUC2                 1H
PCPD2              90.00 usec
PL2                -1.00 dB
PL12               15.16 dB
PL13               18.62 dB
PL2W         13.56617069 W
PL12W         0.32844096 W
PL13W         0.14806664 W
SFO2         400.1916008 MHz
SI                 32768
SF           100.6278442 MHz
WDW                   EM
SSB                    0
LB                  1.00 Hz
GB                     0
PC                  1.40
```

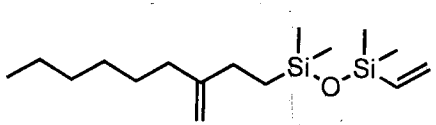


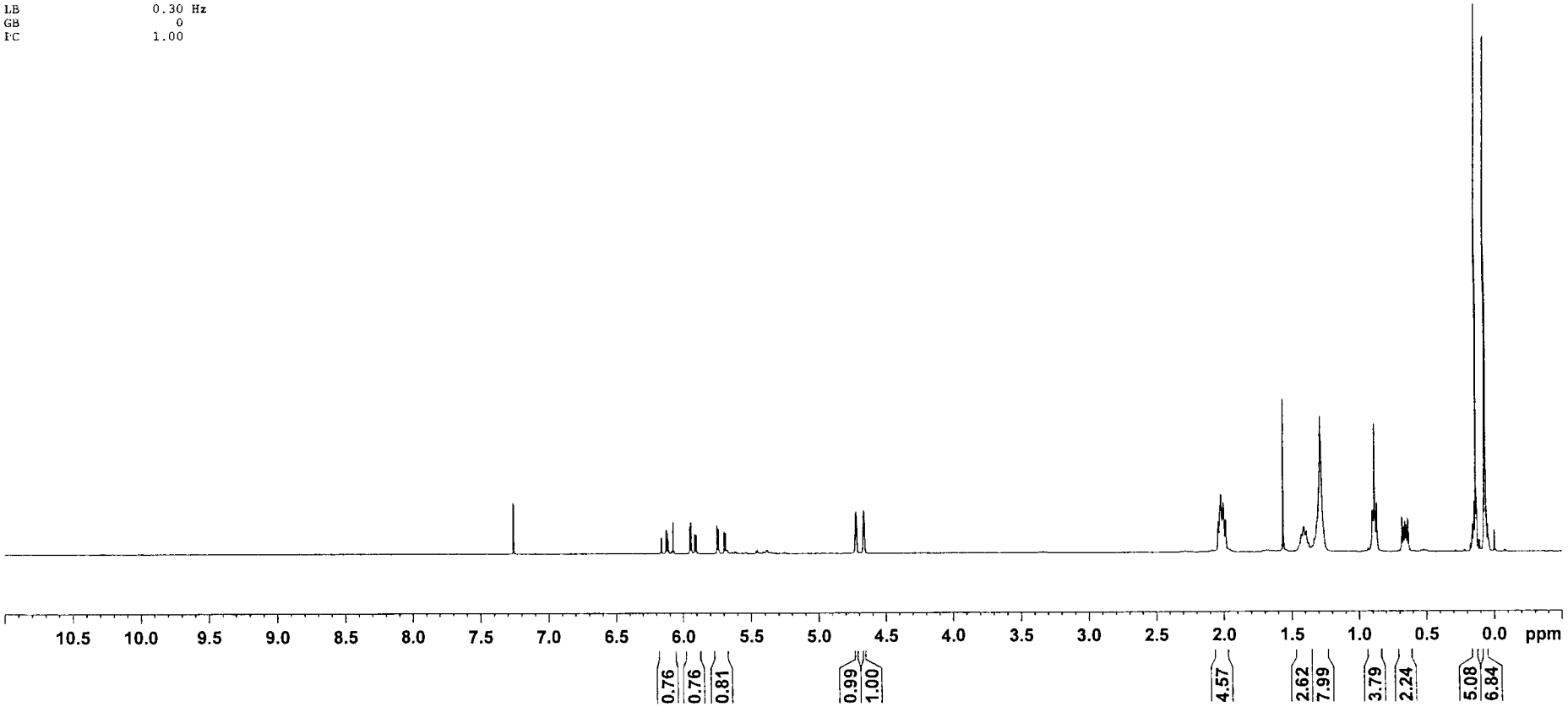




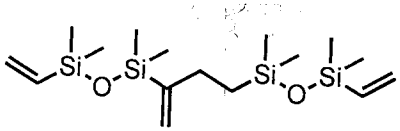


NAME	hls-2-10-7-t4
EXPNO	1
PROCNO	1
Date_	20100828
Time	19.36
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	3
DS	2
SWH	8223.685 Hz
FIDRES	0.125483 Hz
AQ	3.9846387 sec
RG	50.8
DW	60.800 usec
DE	6.50 usec
TE	297.9 K
D1	10.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1924713 MHz
SI	32768
SF	400.1900142 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

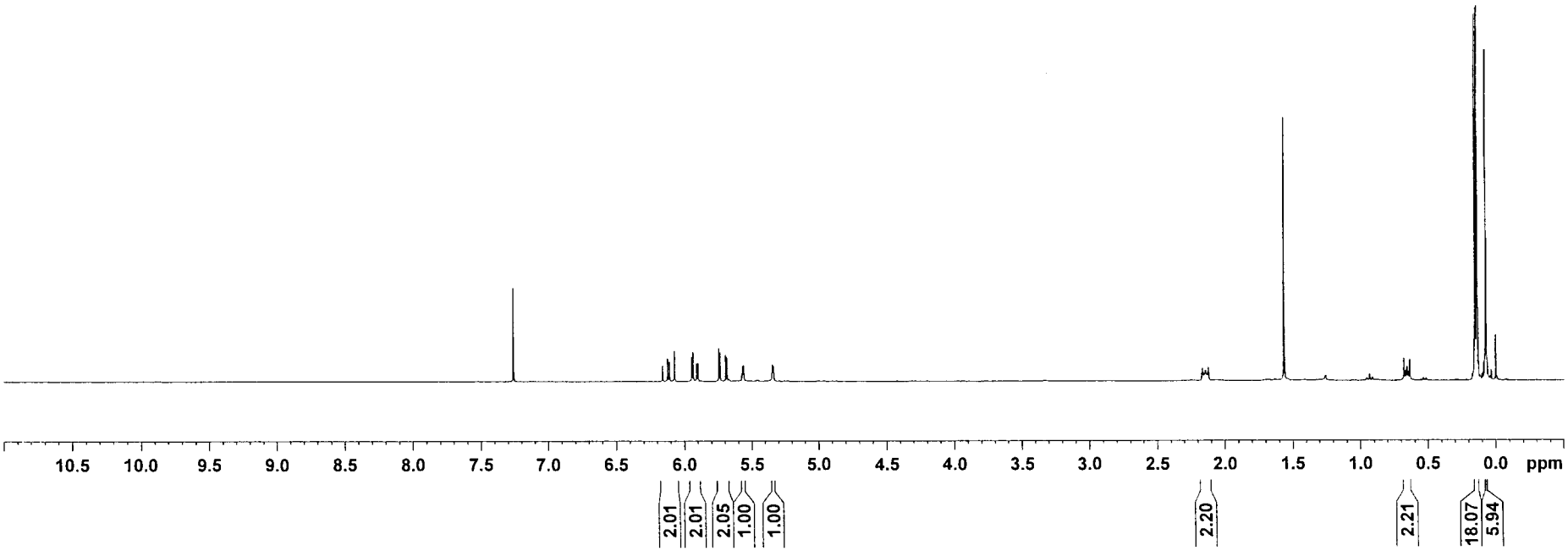


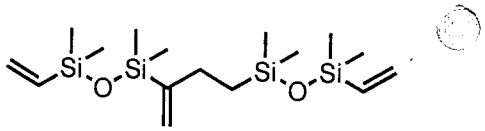


NAME	hls-2-10-7-t4
EXPNO	2
PROCNO	1
Date_	20100828
Time	19.39
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	31
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	181
DW	20.800 usec
DE	6.50 usec
TE	298.4 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	9.90 usec
PL1	-2.00 dB
PL1W	55.33689499 W
SFO1	100.6379183 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	-1.00 dB
PL12	15.16 dB
PL13	18.62 dB
PL2W	13.56617069 W
PL12W	0.32844096 W
PL13W	0.14806664 W
SFO2	400.1916008 MHz
SI	32768
SF	100.6278419 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

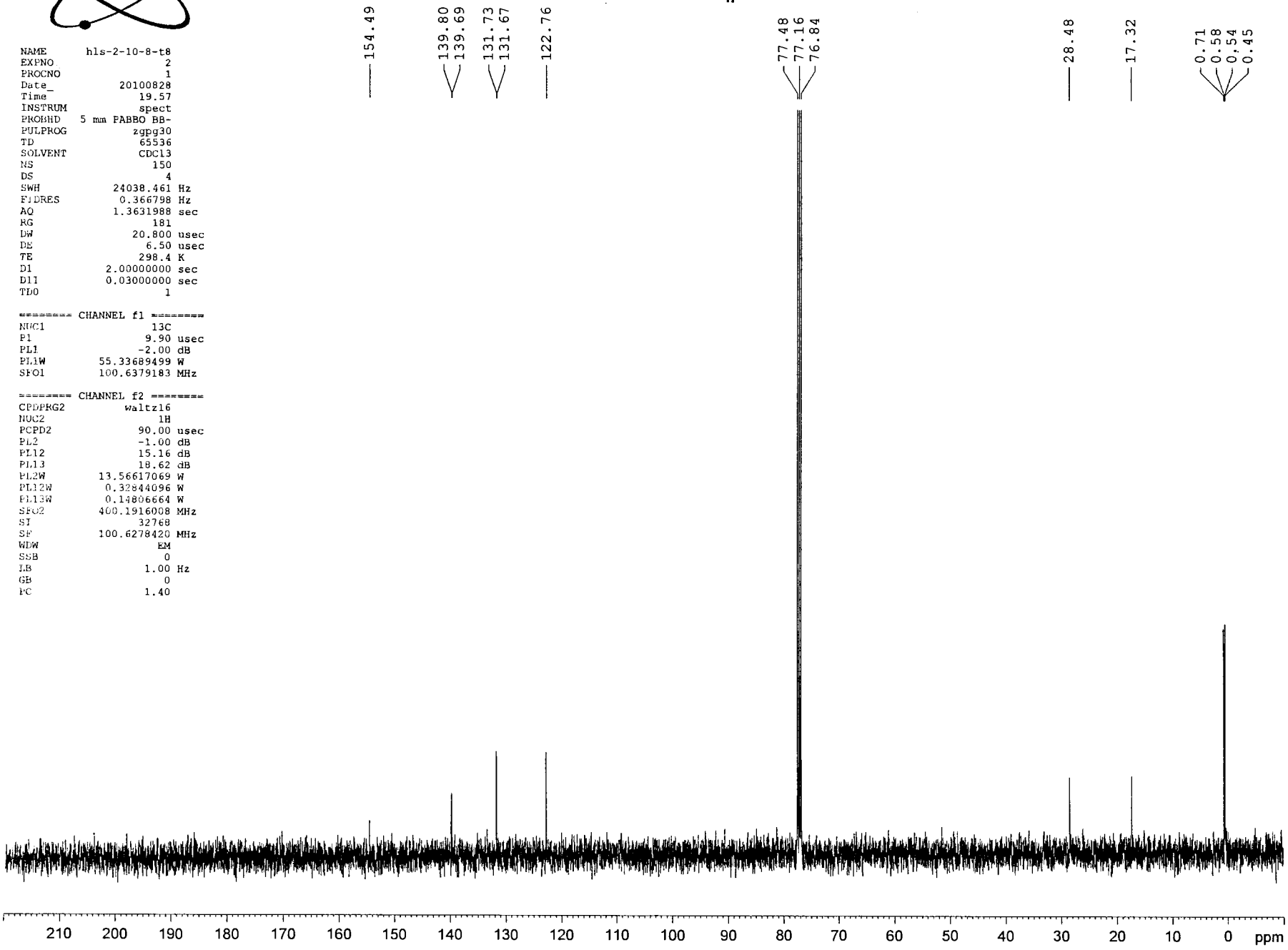


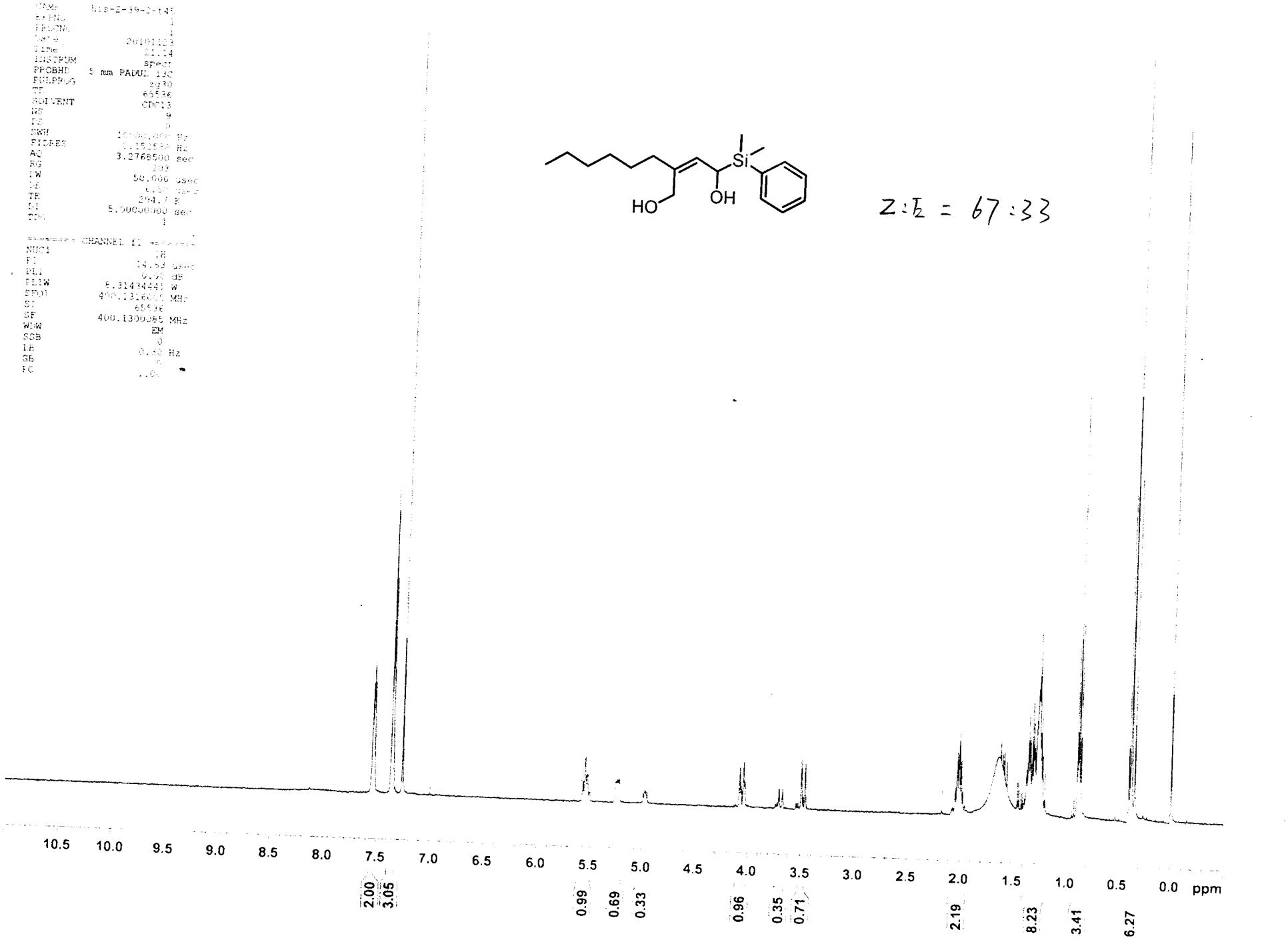
NAME	hls-2-10-8-t8
EXPNO	1
PROCNO	1
Date_	20100828
Time	18.19
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	3
DS	2
SWH	8223.685 Hz
FIDRES	0.125483 Hz
AQ	3.9846387 sec
RG	101
DW	60.800 usec
DE	6.50 usec
TE	297.9 K
D1	10.00000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1924713 MHz
SI	32768
SF	400.1900140 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00



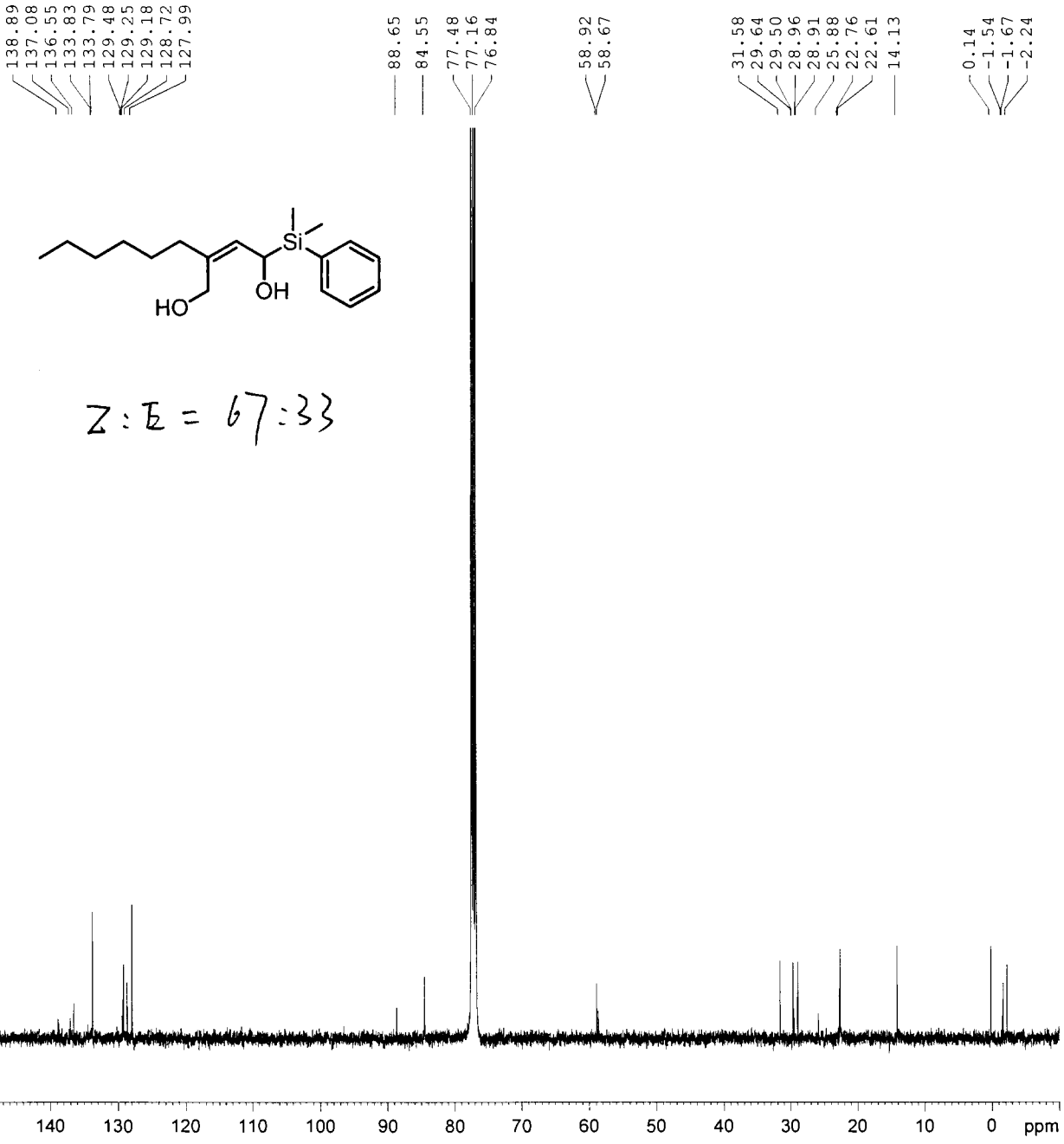


NAME	hls-2-10-8-t8
EXPNO	2
PROCNO	1
Date_	20100828
Time	19.57
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	150
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	181
DW	20.800 usec
DE	6.50 usec
TE	298.4 K
D1	2.00000000 sec
D11	0.03000000 sec
TD0	1
======== CHANNEL f1 ========	
NUC1	13C
P1	9.90 usec
PL1	-2.00 dB
PL1W	55.33689499 W
SFO1	100.6379183 MHz
======== CHANNEL f2 ========	
CPDPRG2	waltz16
NUC2	1H
PCPD2	90.00 usec
PL2	-1.00 dB
PL12	15.16 dB
PL13	18.62 dB
PL2W	13.56617069 W
PL12W	0.32844096 W
PL13W	0.14806664 W
SFO2	400.1916008 MHz
SI	32768
SF	100.6278420 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40





```
NAME      hls-2-39-2-t43
EXPNO                 2
PROCNO                1
Date_          20101201
Time              22.14
INSTRUM            spect
PROBHD   5 mm PABBO BB-
PULPROG         zgpg30
TD                65536
SOLVENT           CDCl3
NS                11914
DS                    4
SWH           24038.461 Hz
FIDRES         0.366798 Hz
AQ            1.3631988 sec
RG                  161
DW               20.800 usec
DE                6.50 usec
TE               299.1 K
D1           2.00000000 sec
D11          0.03000000 sec
TD0                   1

======== CHANNEL f1 ========
NUC1                 13C
P1                 9.90 usec
PL1               -2.00 dB
PL1W        55.33689499 W
SFO1       100.6379183 MHz

======== CHANNEL f2 ========
CPDPRG2         waltz16
NUC2                 1H
PCPD2             90.00 usec
PL2               -1.00 dB
PL12              15.16 dB
PL13              18.62 dB
PL2W        13.56617069 W
PL12W        0.32844096 W
PL13W        0.14806664 W
SFO2       400.1916008 MHz
SI               32768
SF         100.6278420 MHz
WDW                 EM
SSB                  0
LB                1.00 Hz
GB                   0
PC                1.40
```



BRUKER

NAME	hls-2-39-2-t43
EXPNO	3
PROCNO	1
Date_	20101122
Time	21.32
INSTRUM	spect
PROBHD	5 mm PADUL 13C
PULPROG	dept135
TD	65536
SOLVENT	CDCl3
NS	1060
DS	4
SWH	24038.461 Hz
FIDRES	0.366798 Hz
AQ	1.3631988 sec
RG	203
DW	20.800 usec
DE	6.50 usec
TE	295.7 K
CNST2	145.0000000
D1	2.00000000 sec
D2	0.00344828 sec
D12	0.00002000 sec
TD0	1

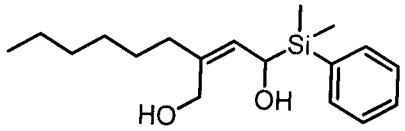
======== CHANNEL f1 ========

NUC1	13C
P1	9.68 usec
P2	19.36 usec
PL1	-0.60 dB
PL1W	41.24164963 W
SFO1	100.6228298 MHz

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

CPDPRG2	waltz16
NUC2	1H
P3	14.83 usec
P4	29.66 usec
PCPD2	90.00 usec
PL2	0.00 dB
PL12	15.66 dB
PL2W	8.31434441 W
PL12W	0.22585411 W
SFO2	400.1316005 MHz
SI	32768
SF	100.6127550 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

133.78
129.24
128.73
127.98
84.57
77.36
58.90
58.63
31.58
29.64
28.91
22.72
22.62
14.14
-1.68
2.25



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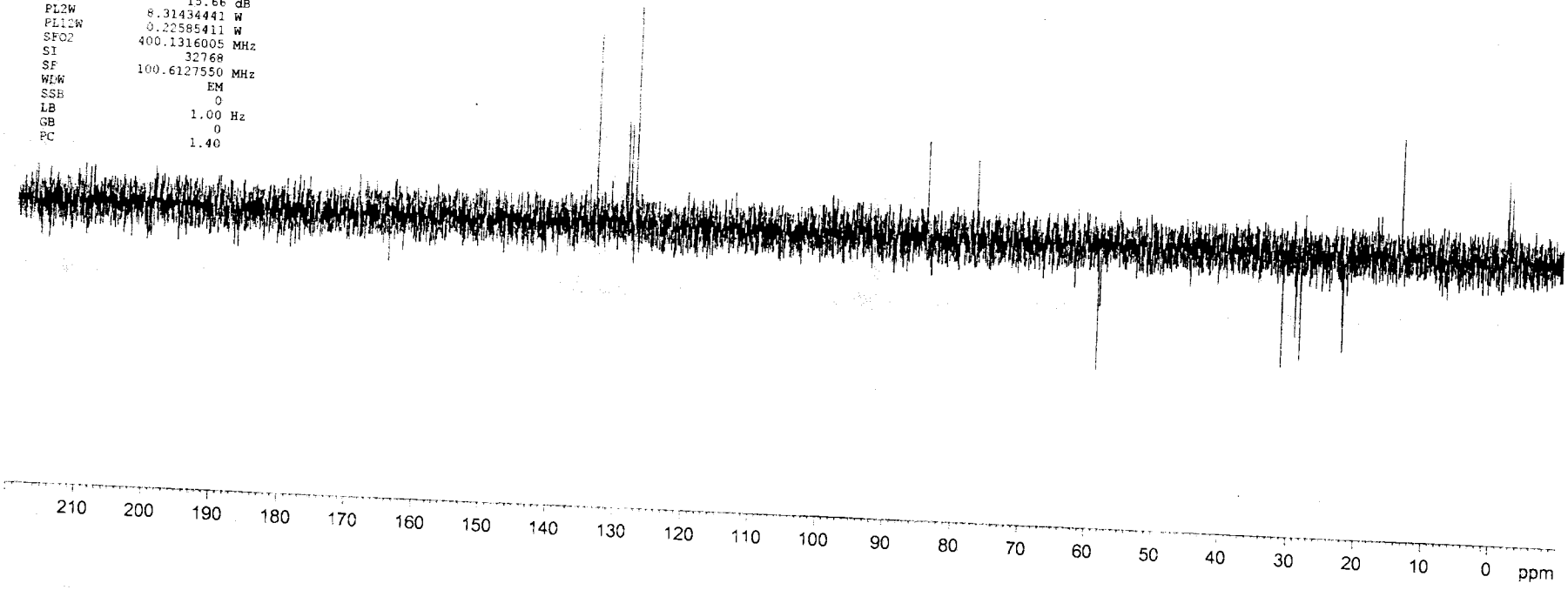
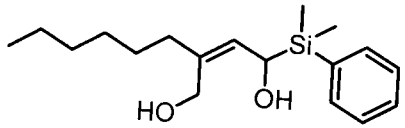
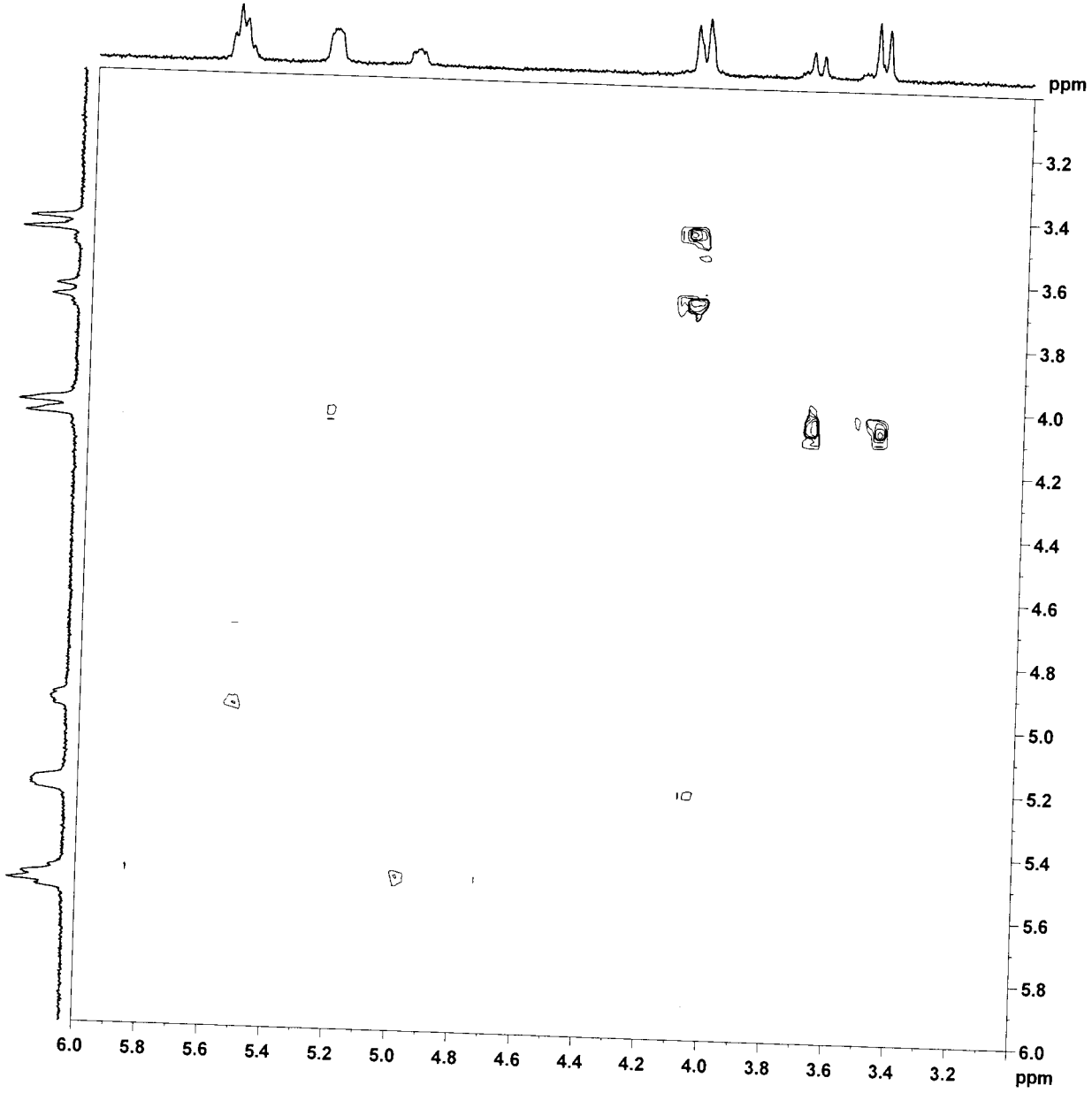




Z : E = 67 : 33



BRUKER

NAME	hls-2-39-2-t43
EXPNO	6
PROCNO	1
Date_	20101124
Time	12.29
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	noesyph
TD	2048
SOLVENT	CDCl3
NS	16
DS	4
SWH	4084.967 Hz
FIDRES	1.994613 Hz
AQ	0.2507252 sec
RG	64
DW	122.400 usec
DE	6.50 usec
TE	296.4 K
D0	0.00010456 sec
D1	2.00000000 sec
D8	0.30000001 sec
IN0	0.00024475 sec

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

NUC1	1H
P1	14.00 usec
PL1	-1.00 dB
PL1W	13.56617069 W
SFO1	400.1918421 MHz
ND0	1
TD	55
SFO1	400.1918 MHz
FIDRES	74.283272 Hz
SW	10.209 ppm
FnMODE	States-TPPI
SI	1024
SF	400.1900131 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	States-TPPI
SF	400.1900128 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0