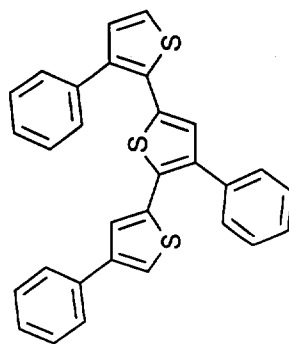


<sup>1</sup>H NMR, CDCl<sub>3</sub>

7.4803  
7.4390  
7.3299  
7.2942  
7.2683  
7.2403  
7.2263  
7.1781  
7.1704  
7.0941  
7.0676  
6.9640

## 3'',3',4-Triphenyl-2'',5':2',2-terthiophene



10

Integral

2.0000

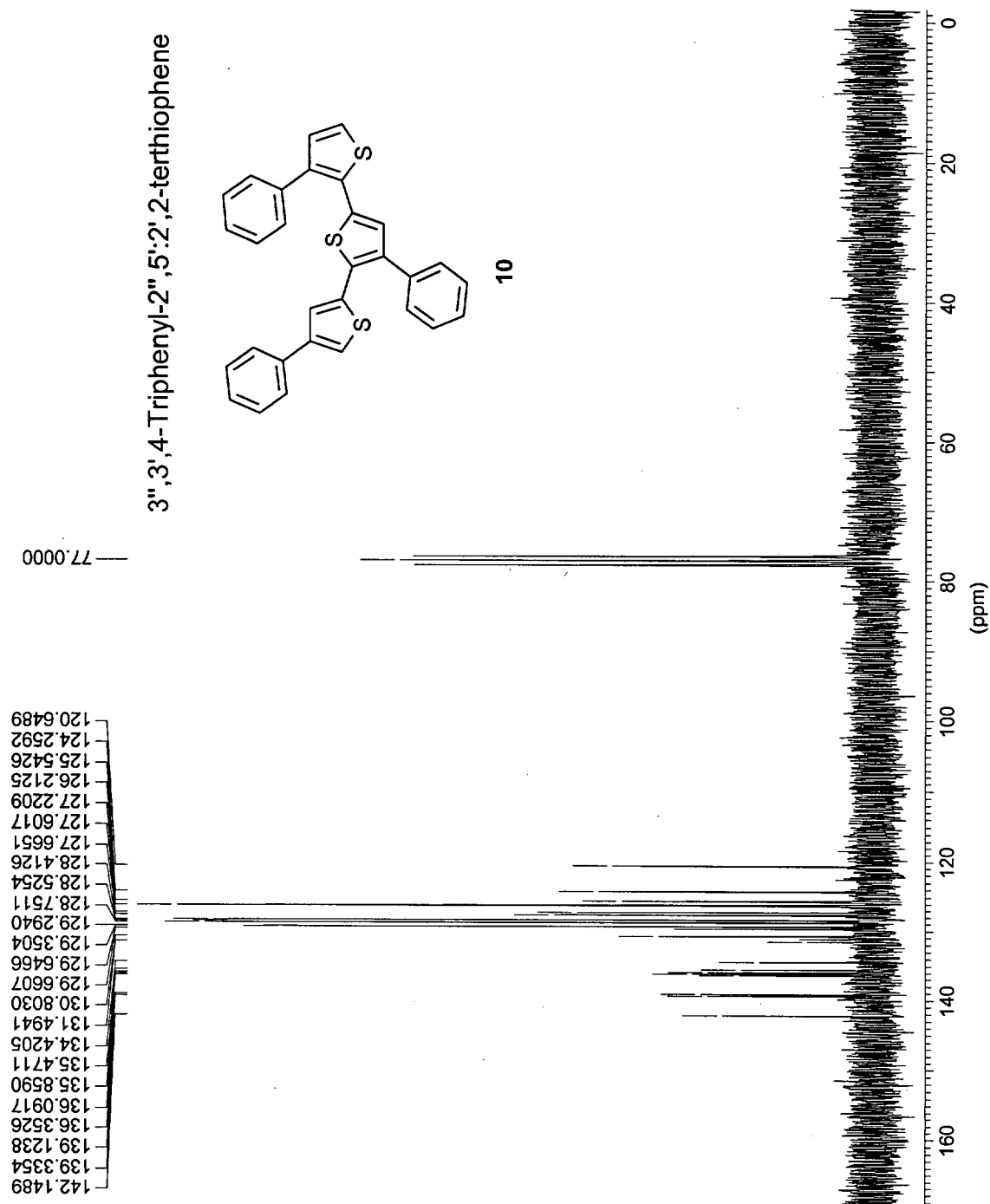
18.335

8.0 7.0 6.0 5.0 4.0 3.0 2.0 1.0 0.0

(ppm)

\*\*\* Current Data Parameters \*\*\*  
 NAME : o2cab43  
 EXPNO : 100  
 PROCNO : 1  
 \*\*\* Acquisition Parameters \*\*\*  
 AQ\_mod : qseq  
 BF1 : 200.1300000 MHz  
 BF2 : 0.0000000 MHz  
 DEC\_NMR : PO  
 DEC\_MC : PO  
 DECSTAT : CPD  
 DP3000 : 191 dB  
 DS : 0  
 FMFLAG : 0  
 FW : 5800.00 Hz  
 INSTRUM : AM  
 NS : 32  
 O1 : 4000.00 Hz  
 O2 : 2229.00 Hz  
 RO : 20 Hz  
 SFO1 : 200.1340000 MHz  
 SW : 22.9206 ppm  
 SW\_h : 4587.156 Hz  
 TD : 32768  
 TE : 297 K  
 VD : 0.0000000 sec  
 YMAX\_a : 33284.8906250  
 YMIN\_a : -33284.8906250  
 \*\*\* Processing Parameters \*\*\*  
 ALPHA : 0.0000000  
 FT\_mod : no  
 GAMMA : 0.0000000  
 GB : 0.1000000  
 LB : 0.00 Hz  
 NZP : 0  
 NC\_proc : 0

0.0000

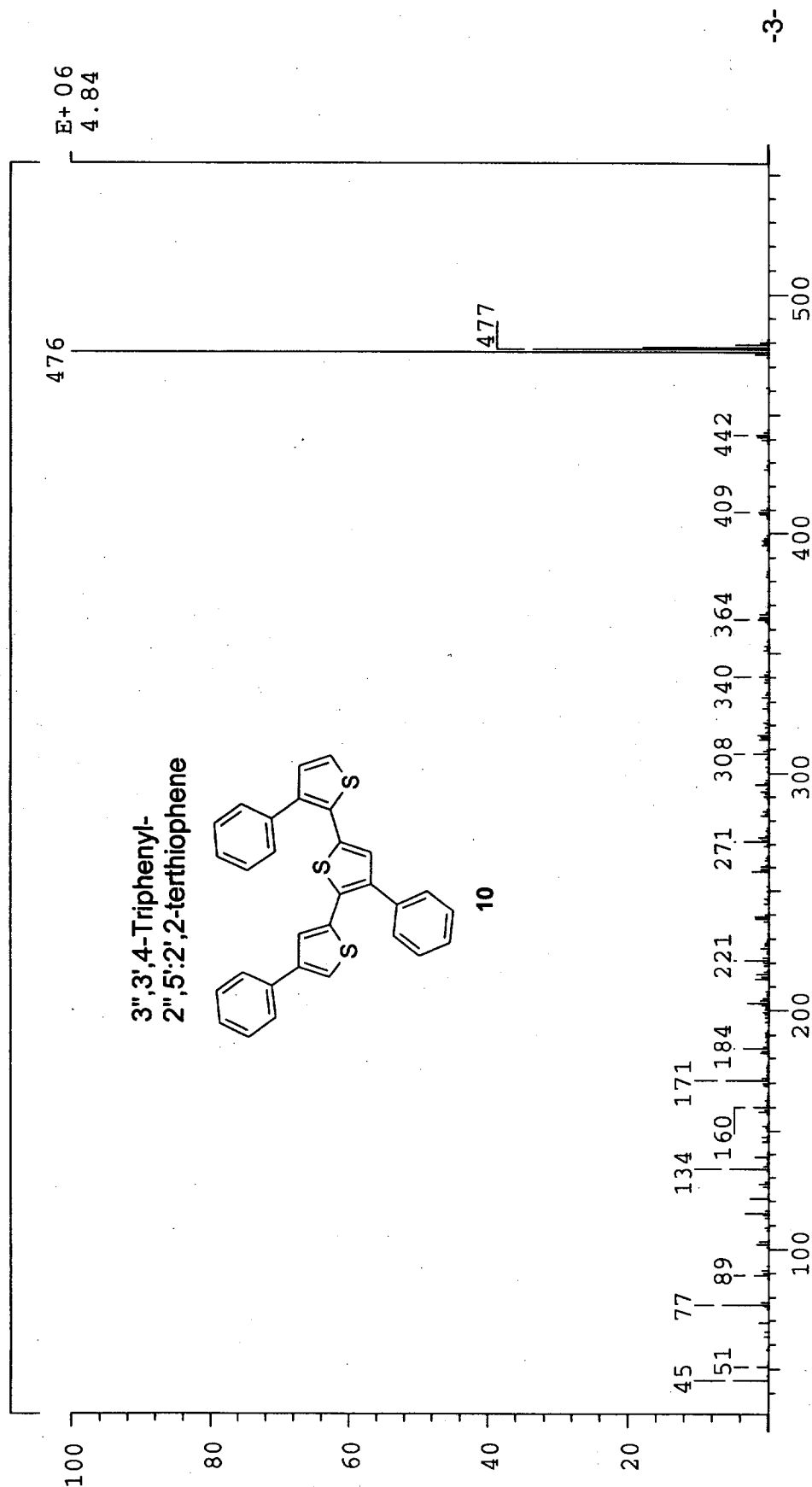
<sup>13</sup>C NMR, CDCl<sub>3</sub>

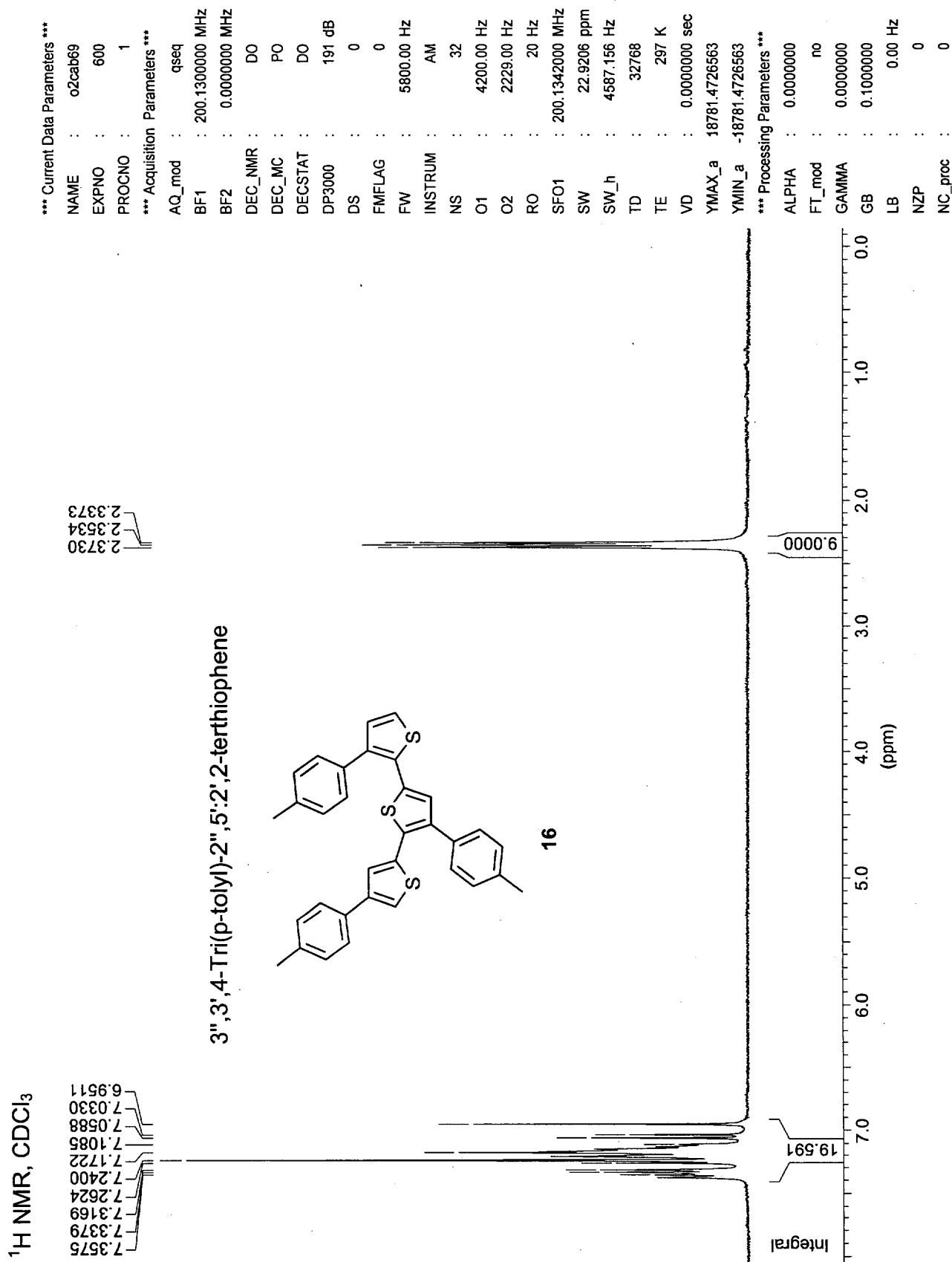
\*\*\* Current Data Parameters \*\*\*  
 NAME : c2cab43  
 EXPNO : 7  
 PROCNO : 1  
 \*\*\* Acquisition Parameters \*\*\*  
 AQ\_mod : qseq  
 BF1 : 50.320000 MHz  
 BF2 : 0.000000 MHz  
 DEC\_NMR : CPD  
 DEC\_MC : PO  
 DECSTAT : PO  
 DP3000 : 16 dB  
 DS : 0  
 FMFLAG : 0  
 FW : 14600.00 Hz  
 INSTRUM : AM  
 NS : 1758  
 O1 : 8597.70 Hz  
 O2 : 3400.00 Hz  
 RO : 20 Hz  
 SFO1 : 50.3285977 MHz  
 SW : 231.0642 ppm  
 SW\_h : 11627.907 Hz  
 TD : 32768  
 TE : 297 K  
 VD : 0.0000000 sec  
 YMAX\_a : 89310.2187500  
 YMIN\_a : -89310.2187500  
 \*\*\* Processing Parameters \*\*\*  
 ALPHA : 0.0000000  
 FT\_mod : no  
 GAMMA : 0.0000000  
 GB : 0.0000000  
 LB : 0.00 Hz  
 NZP : 0  
 NC proc : 0

SPEC: briehtn04  
Samp: CAB 43  
Comm: Lsg in CH2Cl2  
Mode: EI +QIMS LMR UP LR  
Oper: Schmidtberg Client: OC II  
Base: 476.0 Inten: 4844282  
Norm: 476.0 RIC: 17008764  
Peak: 1000.00 mmu Defect: 0 @ 1, 300 @ 1000  
Data: +/390>430 - /201>210

23-MAR-99 DERIVED SPECTRUM #9  
Start: 11:30:59 567

Inlet: 41 > 700  
Masses: 572  
#peaks: 572





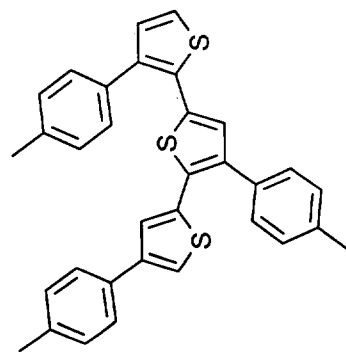
<sup>13</sup>C NMR, CDCl<sub>3</sub>

142.0561  
139.2708  
139.0733  
137.3669  
137.3528  
136.9720  
136.4008  
134.3771  
133.1290  
132.9739  
132.7694  
131.1969  
130.8937  
129.7091  
129.4341  
129.2507  
129.1661  
129.1168  
126.1129  
125.5276  
124.0680  
119.9852

77.0000

21.2941  
21.2659  
21.1107

3'',3',4-Tri(p-tolyl)-2'',5':2',2-terthiophene



16

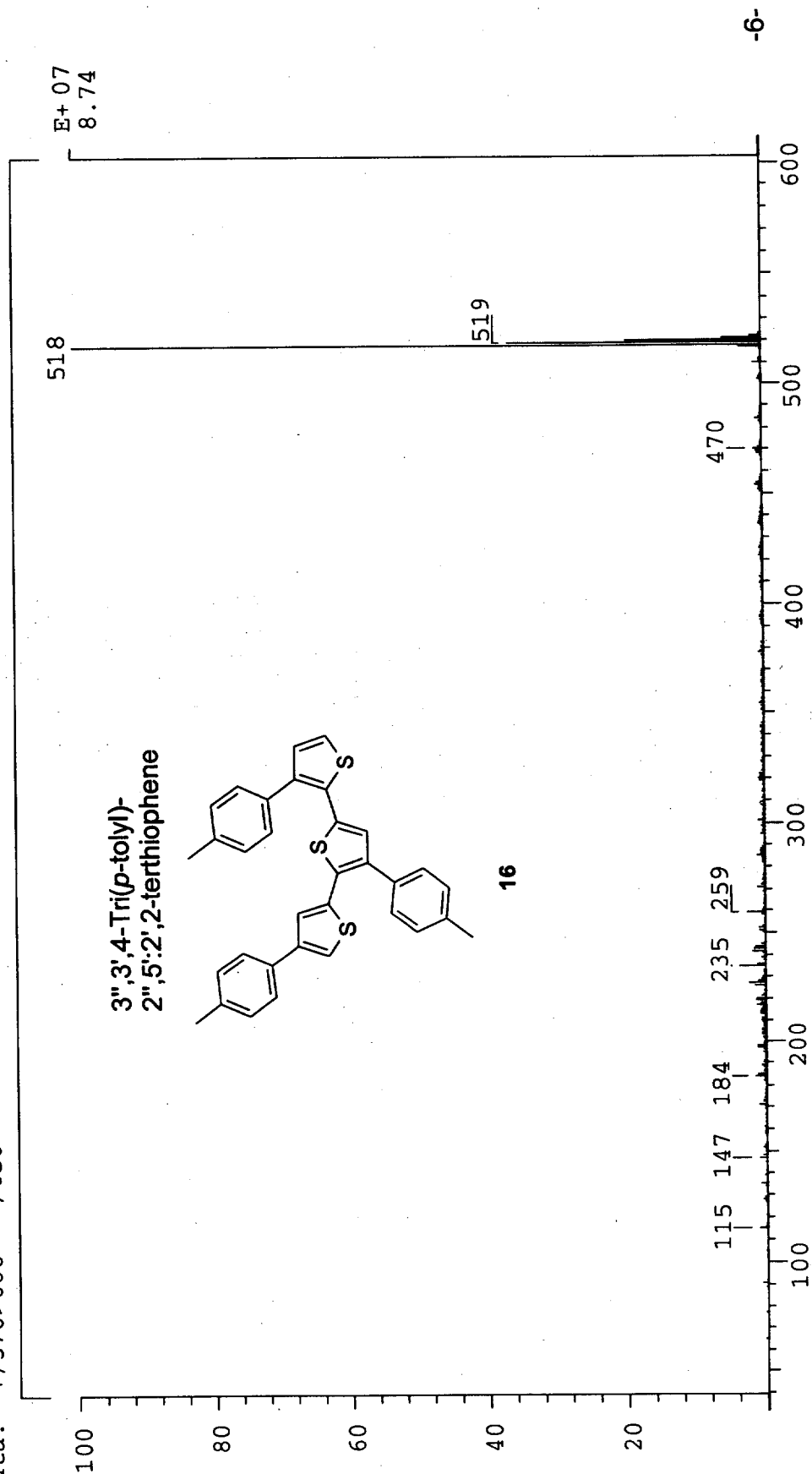
\*\*\* Current Data Parameters \*\*\*  
NAME : o2cab69  
EXPNO : 700  
PROCNO : 1  
\*\*\* Acquisition Parameters \*\*\*  
AQ\_mod : qseq  
BF1 : 50.3209339 MHz  
BF2 : 0.0000000 MHz  
DEC\_NMR : CPD  
DEC\_MC : PO  
DECSTAT : PO  
DP3000 : 25 dB  
DS : 0  
FMFLAG : 0  
FW : 14600.00 Hz  
INSTRUM : AM  
NS : 10444  
O1 : 8597.70 Hz  
O2 : 3400.00 Hz  
RO : 20 Hz  
SFO1 : 50.3295316 MHz  
SW : 231.0642 ppm  
SW\_h : 11627.907 Hz  
TD : 32768  
TE : 297 K  
VD : 0.0000000 sec  
YMAX\_a : 1063321.8750000  
YMIN\_a : -1063321.8750000  
\*\*\* Processing Parameters \*\*\*  
ALPHA : 0.0000000  
FT\_mod : no  
GAMMA : 0.0000000  
GB : 0.1000000  
LB : 0.00 Hz  
NZP : 0  
NC\_proc : 0

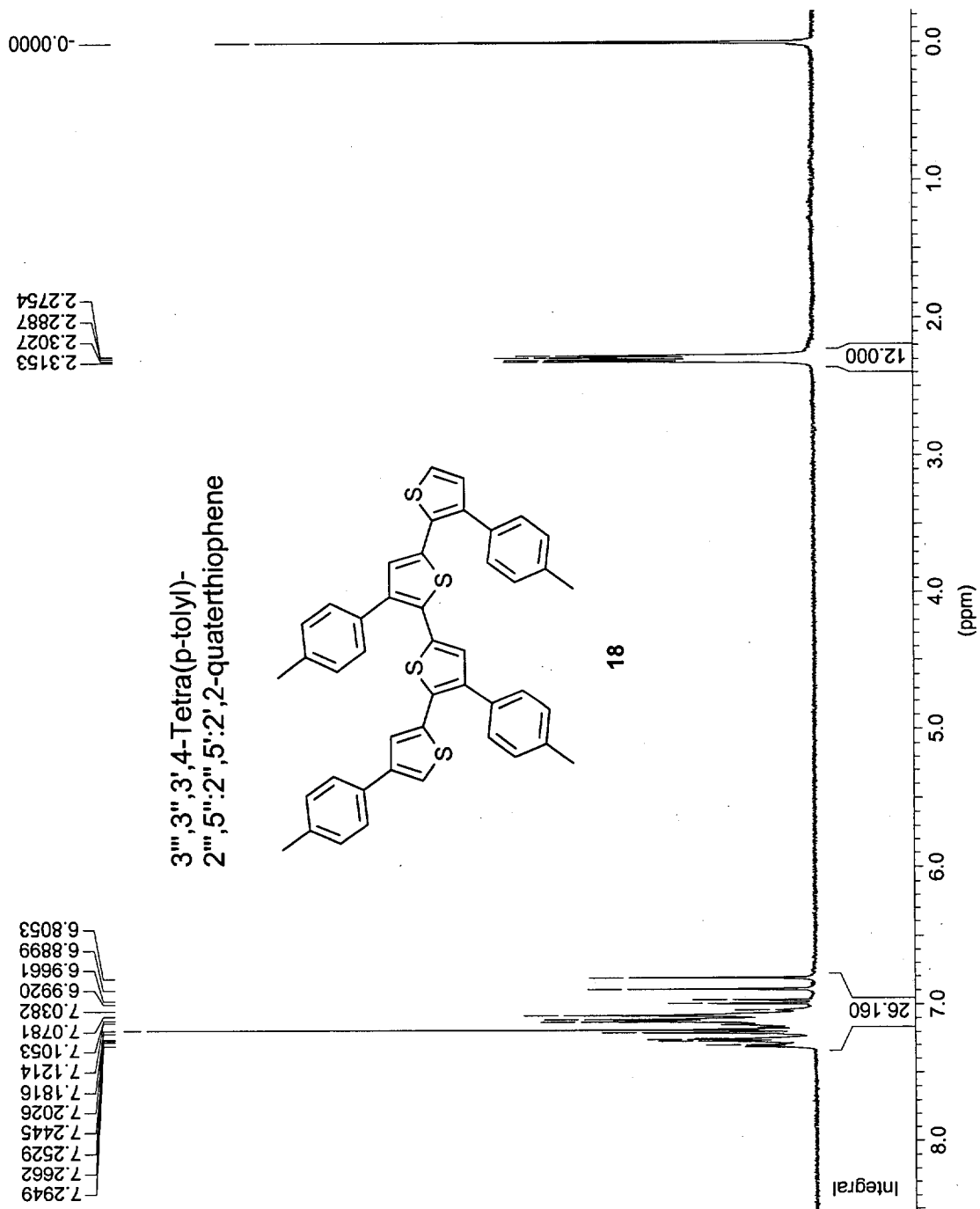
(ppm)

SPEC: briehn08  
Samp: CAB 69  
Comm: Lsg in CH2Cl2  
Mode: EI +Q1MS LMR UP LR  
Oper: Schmidtberg Client: OC II  
Base: 518.1 Inten: 87443128  
Norm: 518.0 RIC: 265065662  
Peak: 1000.00 mmu Defect: 0 @ 1, 300 @ 1000  
Data: +/570>600 - /450

19-MAY-99 DERIVED SPECTRUM #9  
Start: 16:41:59 816

Inlet: Masses: 41 > 800  
#peaks: 744



<sup>1</sup>H NMR, CDCl<sub>3</sub>

\*\*\* Current Data Parameters \*\*\*

NAME : o2cab84

EXPNO : 1

PROCNO : 1

\*\*\* Acquisition Parameters \*\*\*

AQ\_mod : qseq

BF1 : 200.130000 MHz

BF2 : 0.000000 MHz

DEC\_NMR : DO

DEC\_MC : PO

DECSTAT : DO

DP3000 : 191 dB

DS : 0

FMFLAG : 0

FW : 5800.00 Hz

INSTRUM : AM

NS : 16

O1 : 4200.00 Hz

O2 : 2229.00 Hz

RO : 20 Hz

SFO1 : 200.134200 MHz

SW : 22.9206 ppm

SW\_h : 4587.156 Hz

TD : 32768

TE : 297 K

VD : 0.000000 sec

YMAX\_a : 15104.1943359

YMIN\_a : 15104.1943359

\*\*\* Processing Parameters \*\*\*

ALPHA : 0.000000

FT\_mod : no

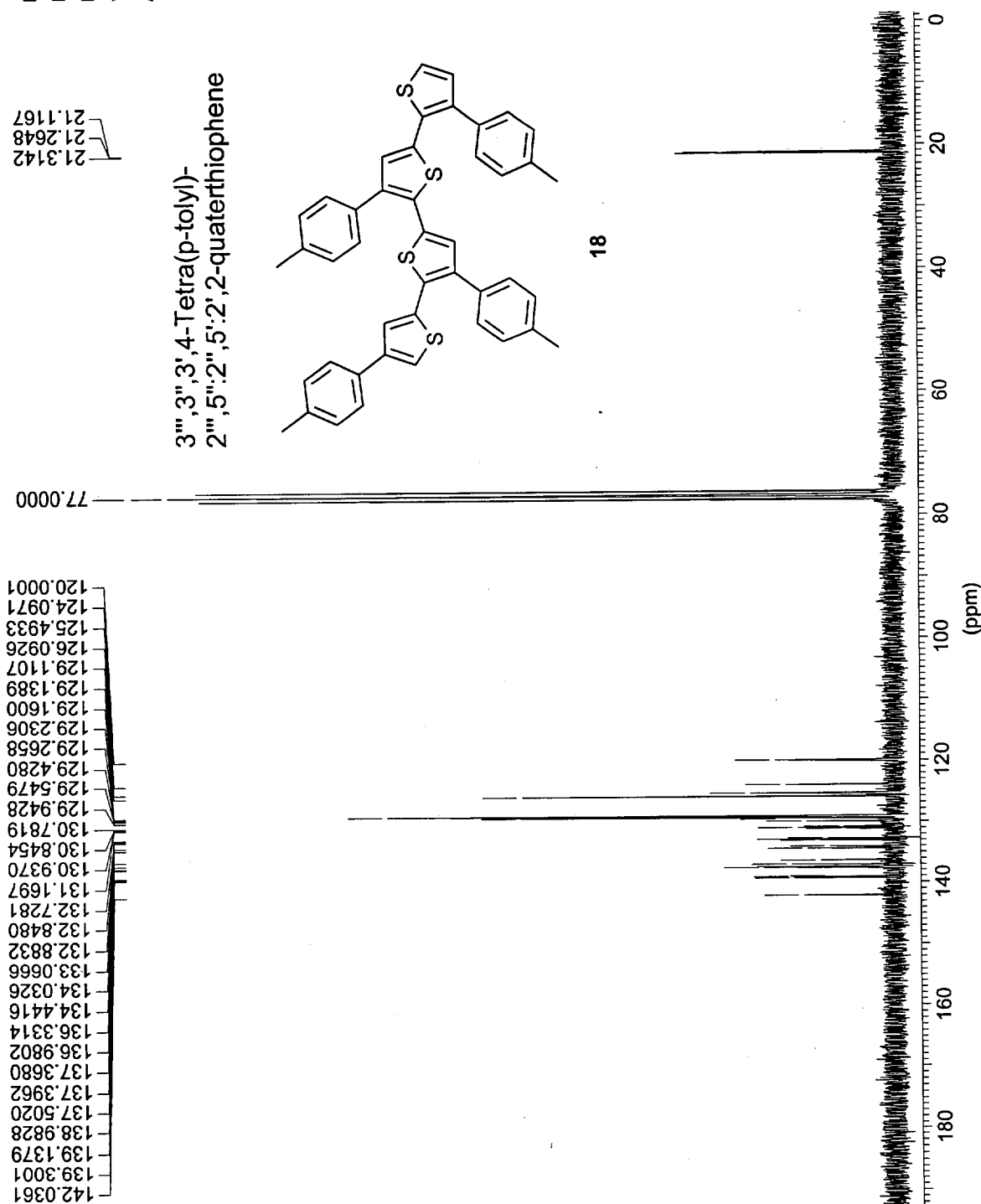
GAMMA : 0.000000

GB : 0.100000

LB : 0.00 Hz

NZP : 0

NC\_proc : 0

<sup>13</sup>C NMR, CDCl<sub>3</sub>

\*\*\* Current Data Parameters \*\*\*

|        |   |         |
|--------|---|---------|
| NAME   | : | o2cab84 |
| EXPNO  | : | 100     |
| PROCNO | : | 1       |

\*\*\* Acquisition Parameters \*\*\*

|         |   |                  |
|---------|---|------------------|
| AQ_mod  | : | qseq             |
| BF1     | : | 50.3200000 MHz   |
| BF2     | : | 0.0000000 MHz    |
| DEC_NMR | : | CPD              |
| DEC_MC  | : | PO               |
| DECSTAT | : | PO               |
| DP3000  | : | 25 dB            |
| DS      | : | 0                |
| FMFLAG  | : | 0                |
| FW      | : | 14600.00 Hz      |
| INSTRUM | : | AM               |
| NS      | : | 16521            |
| O1      | : | 8597.70 Hz       |
| O2      | : | 3400.00 Hz       |
| RO      | : | 20 Hz            |
| SFO1    | : | 50.3285977 MHz   |
| SW      | : | 231.0642 ppm     |
| SW_h    | : | 11627.907 Hz     |
| TD      | : | 32768            |
| TE      | : | 297 K            |
| VD      | : | 0.0000000 sec    |
| YMAX_a  | : | 1598815.6250000  |
| YMIN_a  | : | -1598815.6250000 |

\*\*\* Processing Parameters \*\*\*

|         |   |           |
|---------|---|-----------|
| ALPHA   | : | 0.0000000 |
| FT_mod  | : | no        |
| GAMMA   | : | 0.0000000 |
| GB      | : | 0.0000000 |
| LB      | : | 0.00 Hz   |
| NZP     | : | 0         |
| NC_proc | : | 0         |



SPEC: briehn10  
Samp: CAB 84  
Comm: Lsg in CH2Cl2  
Mode: EI +QlMS LMR UP LR  
Oper: Schmidtberg Client: OC II  
Base: 690.2 Inten: 2081112  
Norm: 690.2 RIC: 5101953  
Peak: 1000.00 mmu  
Data: +/608>638 - /401>420

21-JUN-99  
DERIVED SPECTRUM  
Start: 10:12:43  
#9  
802

Inlet:  
Masses: 41 > 900  
#peaks: 920

