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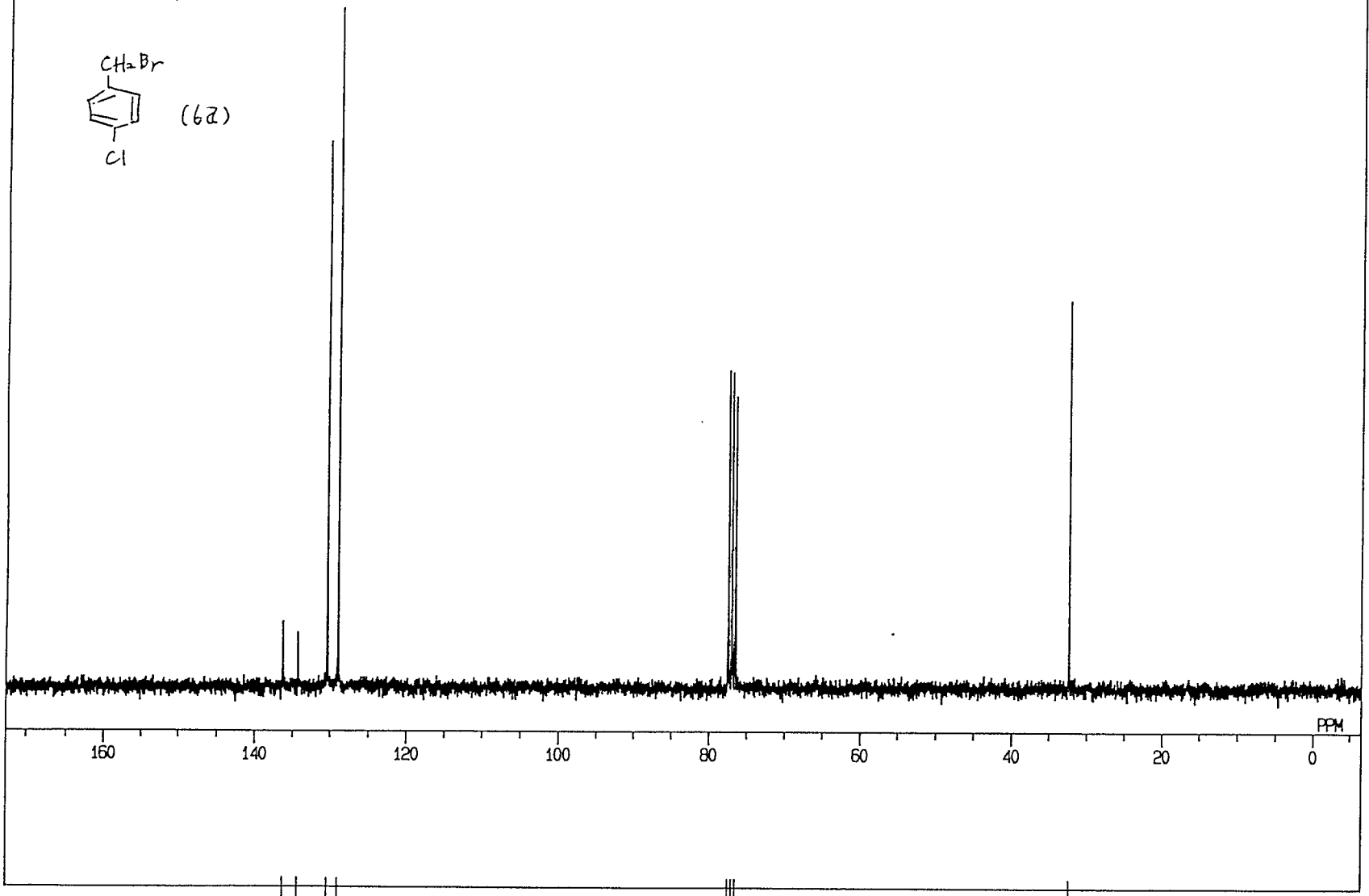
4-CHROLOTOLUENE, BENZYLBROMOPRODUCT

(62)



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PREDL 0.2000 ms
IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 128
DUMMY 1
FREQU 20000.0 Hz
FLT 10000 Hz
DELAY 20.0 us
ACQTM 0.819 sec
PD 2.181 sec
ADBIT 12
RGAIN 27
BF 1.22 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD BCM
EXPCM Bilevel.complete.dec
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
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LKLEV 200
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LKSIG 1541
CSPED 25 Hz
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FILOF 60
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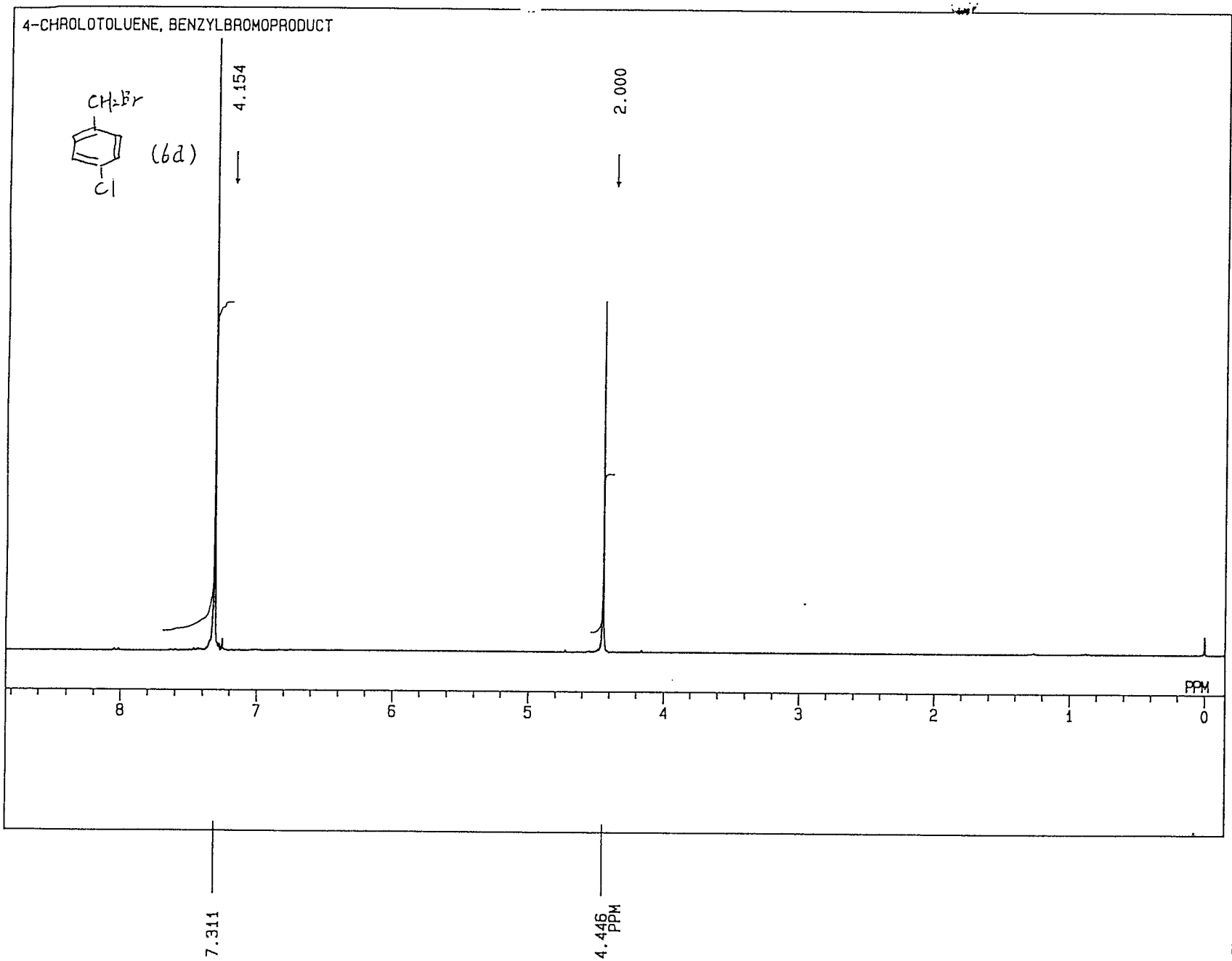

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IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 16
DUMMY 1
FREQU 5405.4 Hz
FLT 2700 Hz
DELAY 74.1 us
ACQTM 3.031 sec
PD 3.969 sec
ADBIT 12
RGAIN 15
BF 0.16 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD NON
EXPCM NON: Single.coupled: PW
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
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IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
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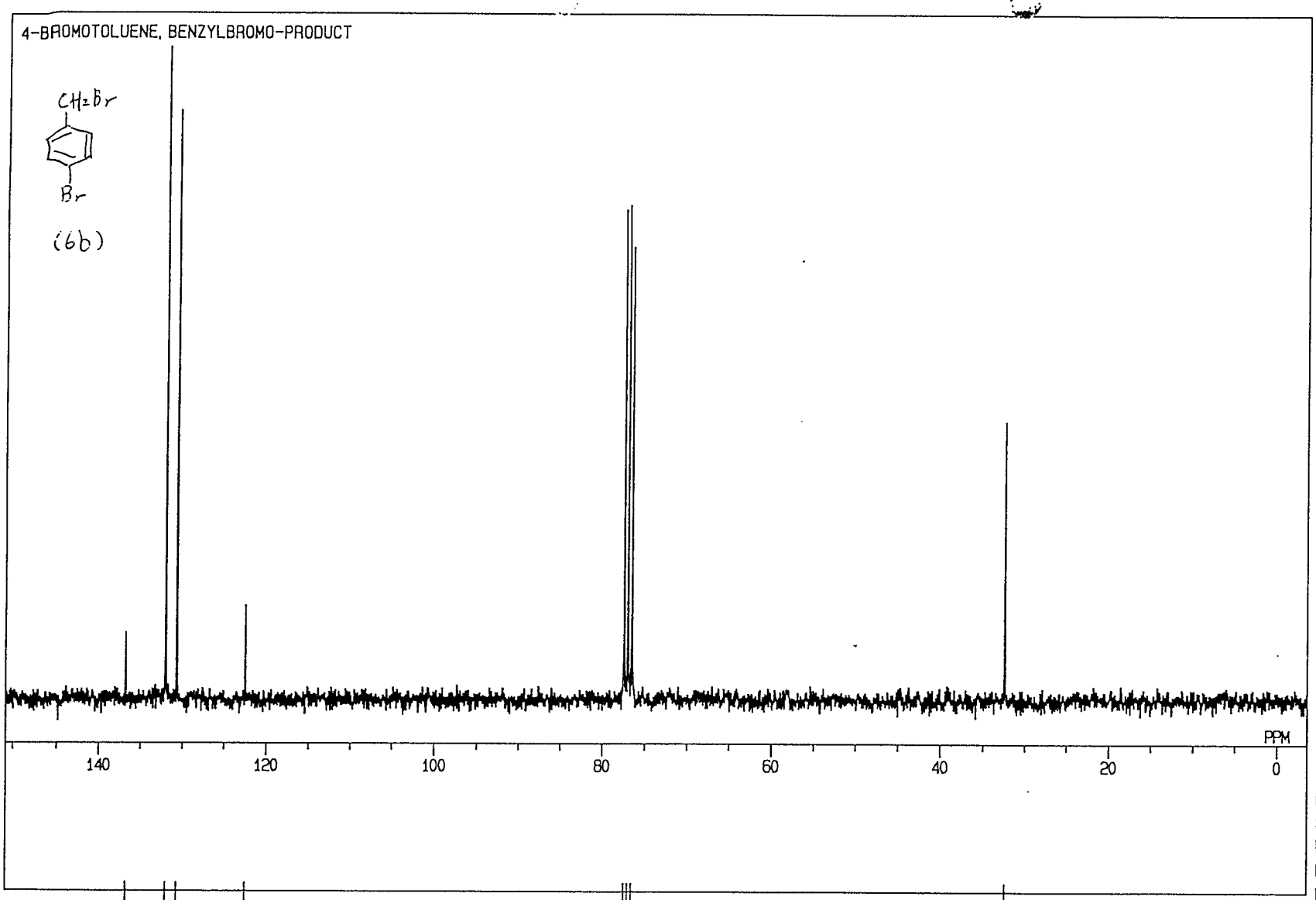

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POINT 32768
SPO 32768
TIMES 128
DUMMY 1
FREQU 20000.0 Hz
FLT 10000 Hz
DELAY 20.0 us
ACQTM 0.819 sec
PD 2.181 sec
ADBIT 12
RGAIN 26
BF 1.22 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD BCM
EXPCM Bilevel.complete.deco
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
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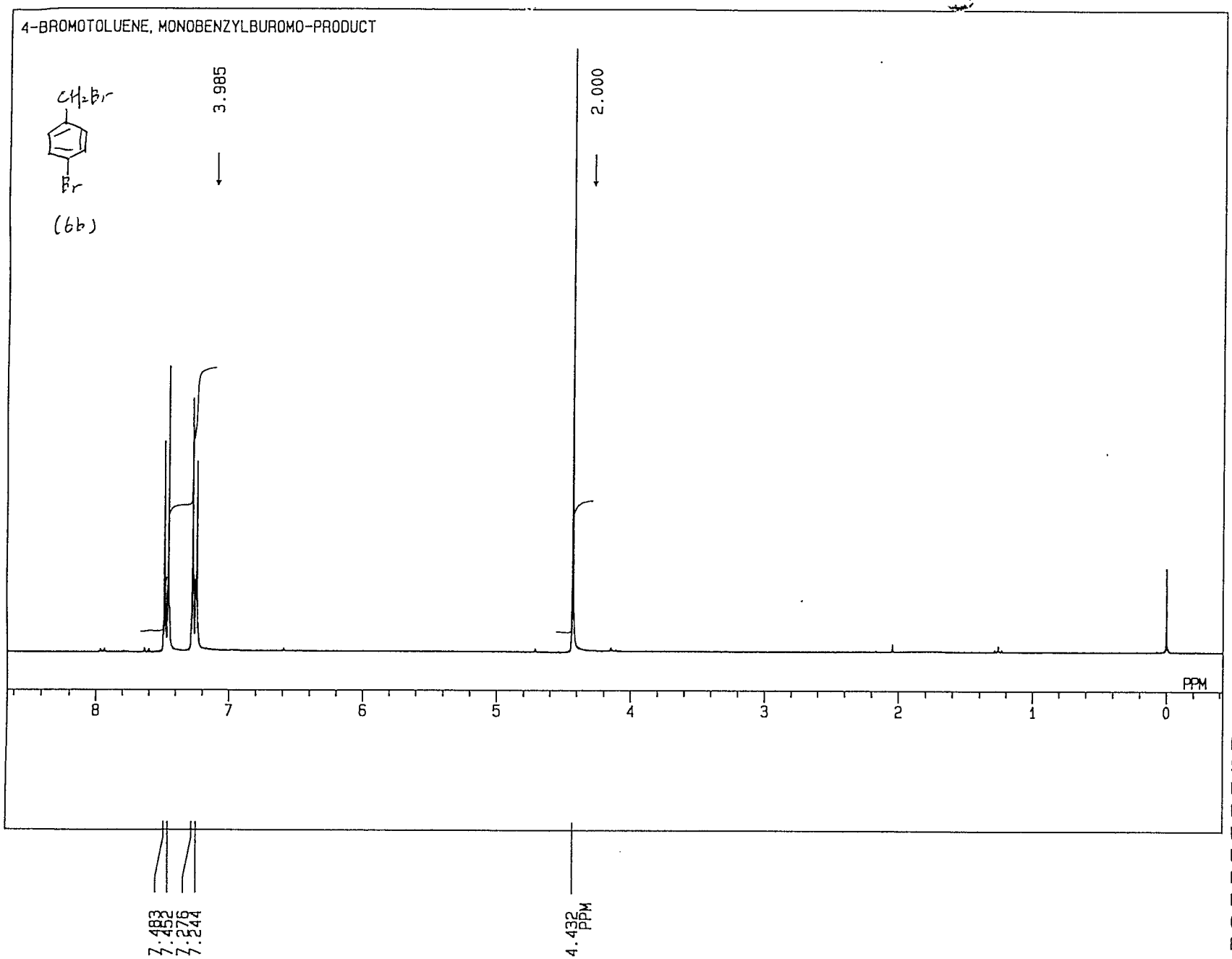
OPERATOR : _____



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PW1 4.7 us
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IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 16
DUMMY 1
FREQU 5405.4 Hz
FLT 2700 Hz
DELAY 74.1 us
ACQTM 3.031 sec
PD 3.969 sec
ADBIT 12
RGAIN 18
BF 0.16 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD NON
EXPCM NON: Single.coupled: PW
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
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LKPHS 101 deg
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CSPED 14 Hz
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FILDF 36
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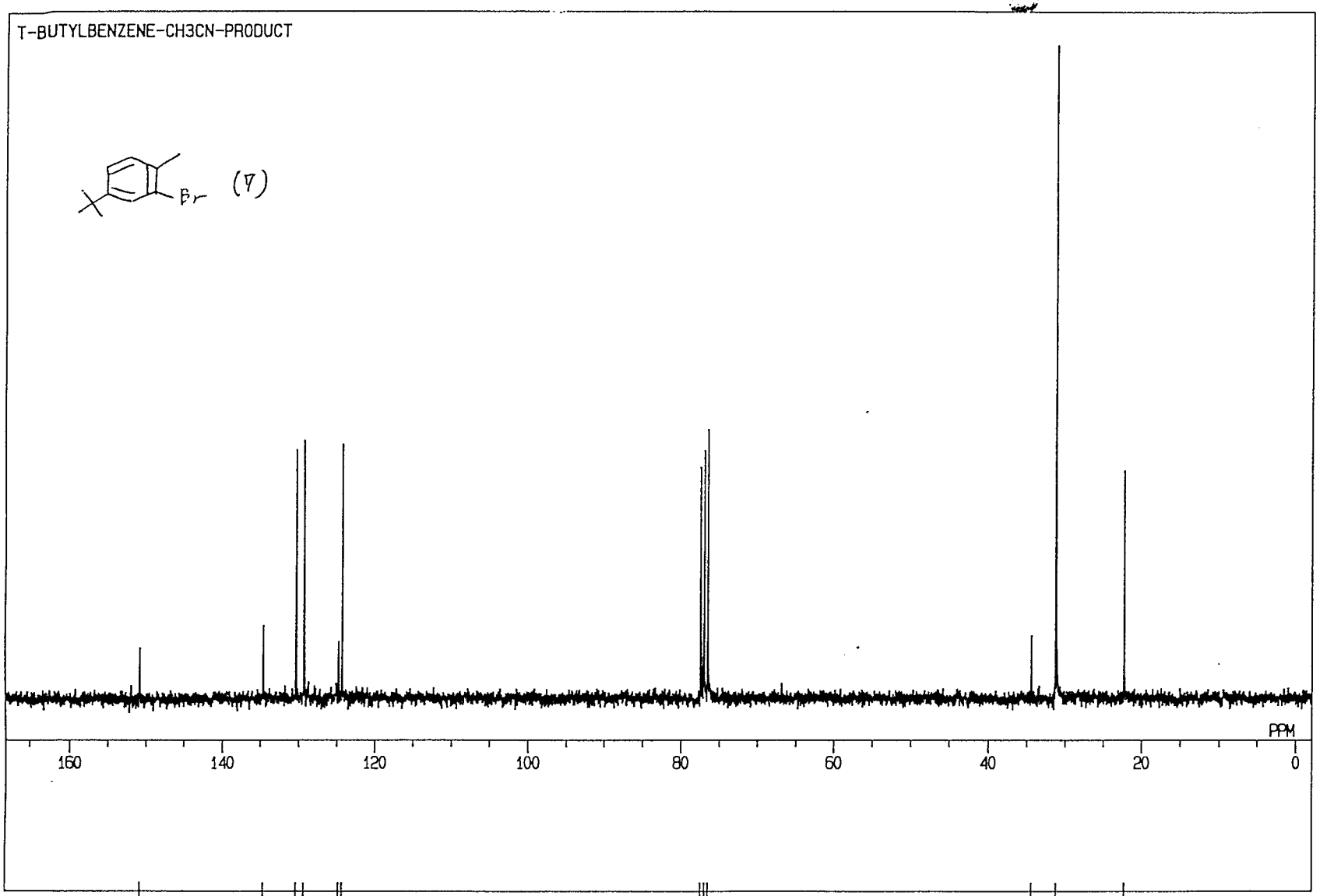

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IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 128
DUMMY 1
FREQU 20000.0 Hz
FLT 10000 Hz
DELAY 20.0 us
ACQTM 0.819 sec
PD 2.181 sec
ADBIT 12
RGAIN 27
BF 1.22 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD BCM
EXPCM Bilevel.complete.dec
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
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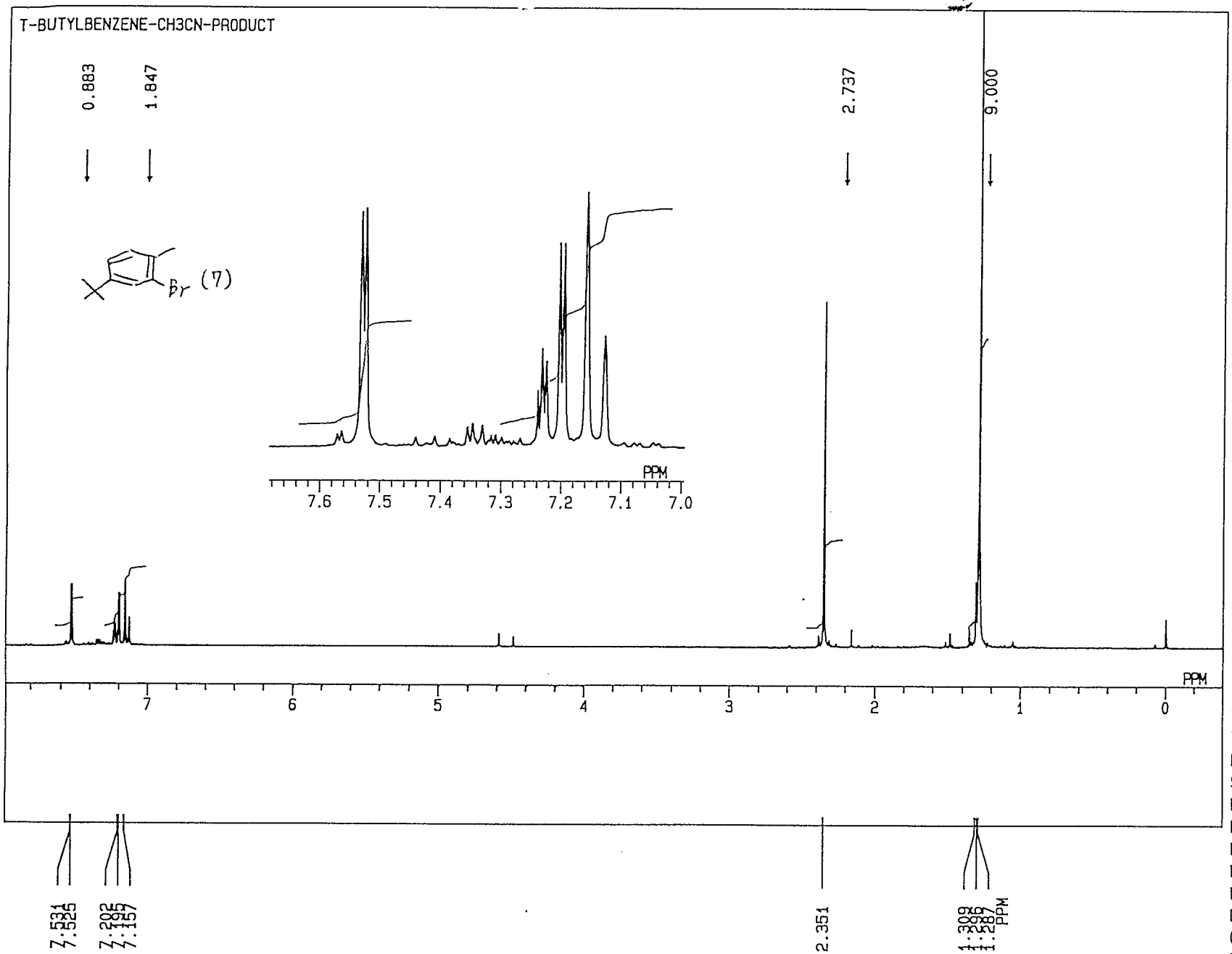
LKPHS 100 deg
LKSIG 1171
CSPED 12 Hz
FILDC -58
FILDF 44
OPERATOR : _____



25-SEP-97 19: 18: 39
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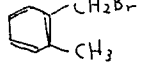
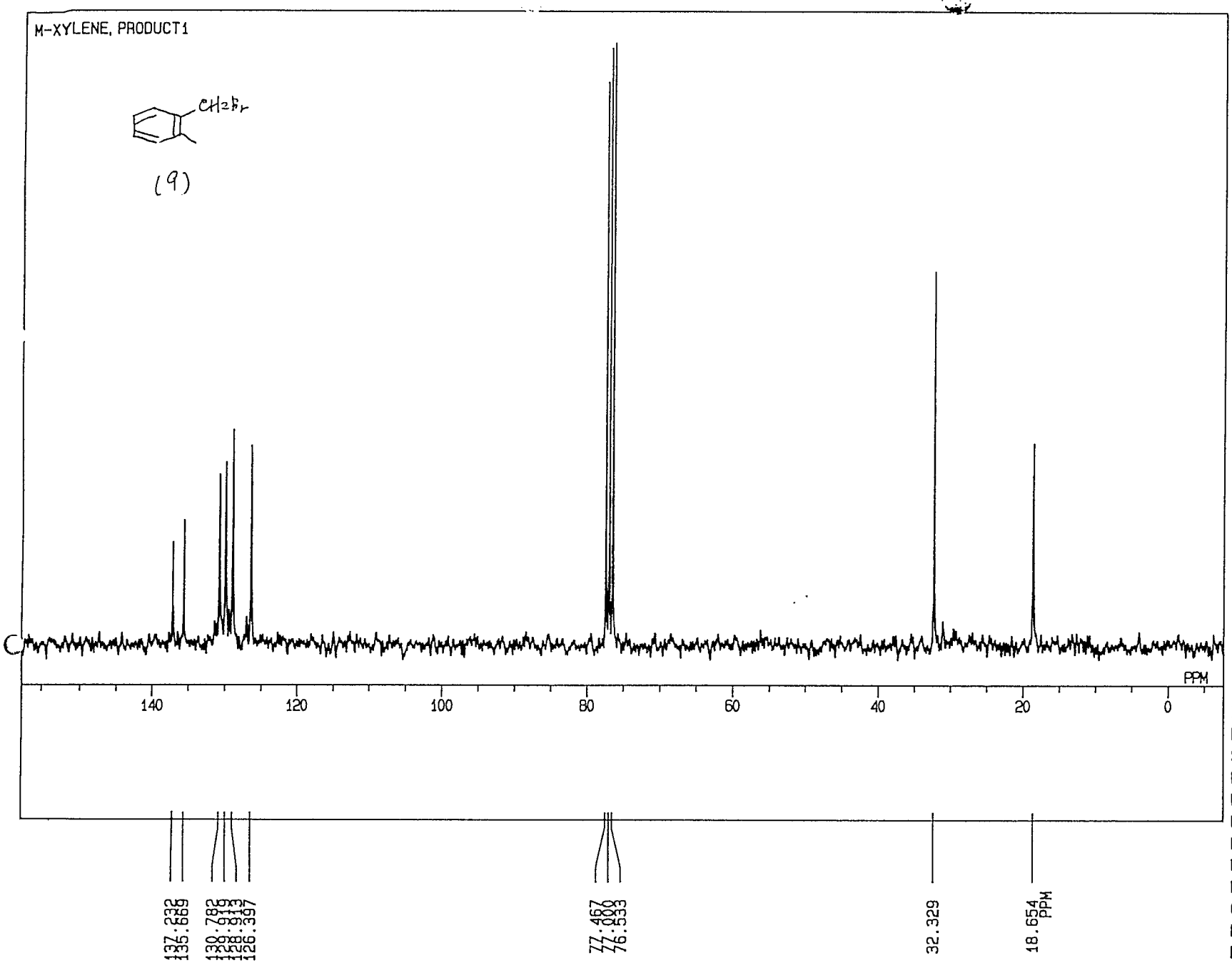
PREDL 0.2000 ms
IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 16
DUMMY 1
FREQU 5405.4 Hz
FLT 2700 Hz
DELAY 74.1 us
ACQTM 3.031 sec
PD 3.969 sec
ADBIT 12
RGAIN 13
BF 0.16 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD NON
EXPCM NON: Single.coupled: PW
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
LGAIN 20
LKPHS 100 deg
LKSIG 1171
CSPED 16 Hz
FILDC -58
FILDF 44
OPERATOR : _____

^{13}C



M-XYLENE, PRODUCT1

(9)



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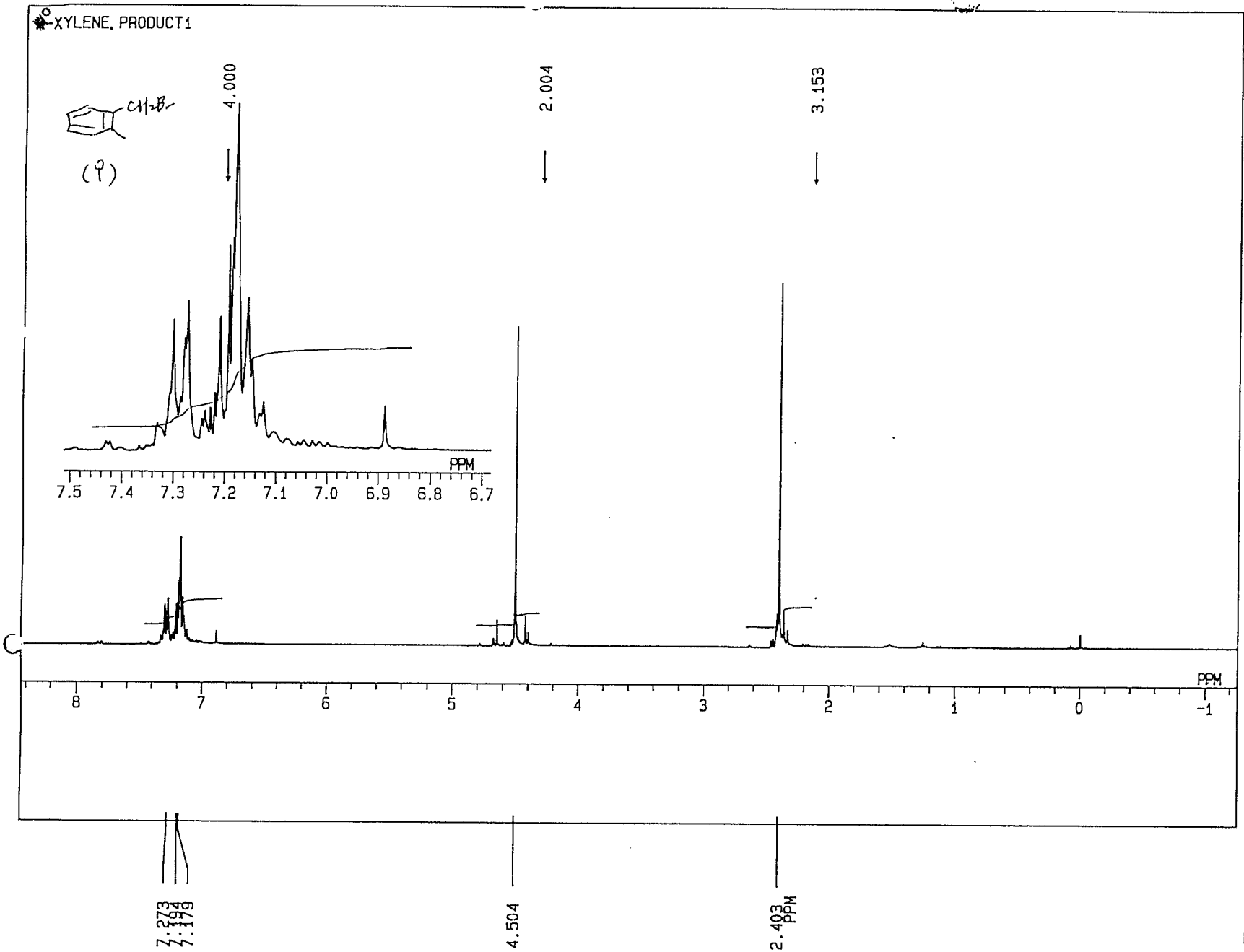
POINT 32768
SPO 32768
TIMES 128
DUMMY 1
FREQU 20000.0 Hz
FLT 10000 Hz
DELAY 20.0 us
ACQTM 0.819 sec
PD 2.181 sec
ADBIT 12
RGAIN 24
BF 1.22 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD BCM
EXPCM Bilevel.complete.dec
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
LGAIN 22
LKPHS 97 deg
LKSIG 633
CSPED 23 Hz
FILDC -61
FILDF 78
OPERATOR : _____



19-MAY-96 16:34:26
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POINT 32768
SPO 32768
TIMES 16
DUMMY 1
FREQU 5405.4 Hz
FLT 2700 Hz
DELAY 74.1 us
ACQTM 3.031 sec
PD 3.969 sec
ADBIT 12
RGAIN 12
BF 0.16 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD NON
EXPCM NON: Single.coupled: P
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
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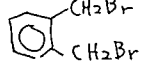
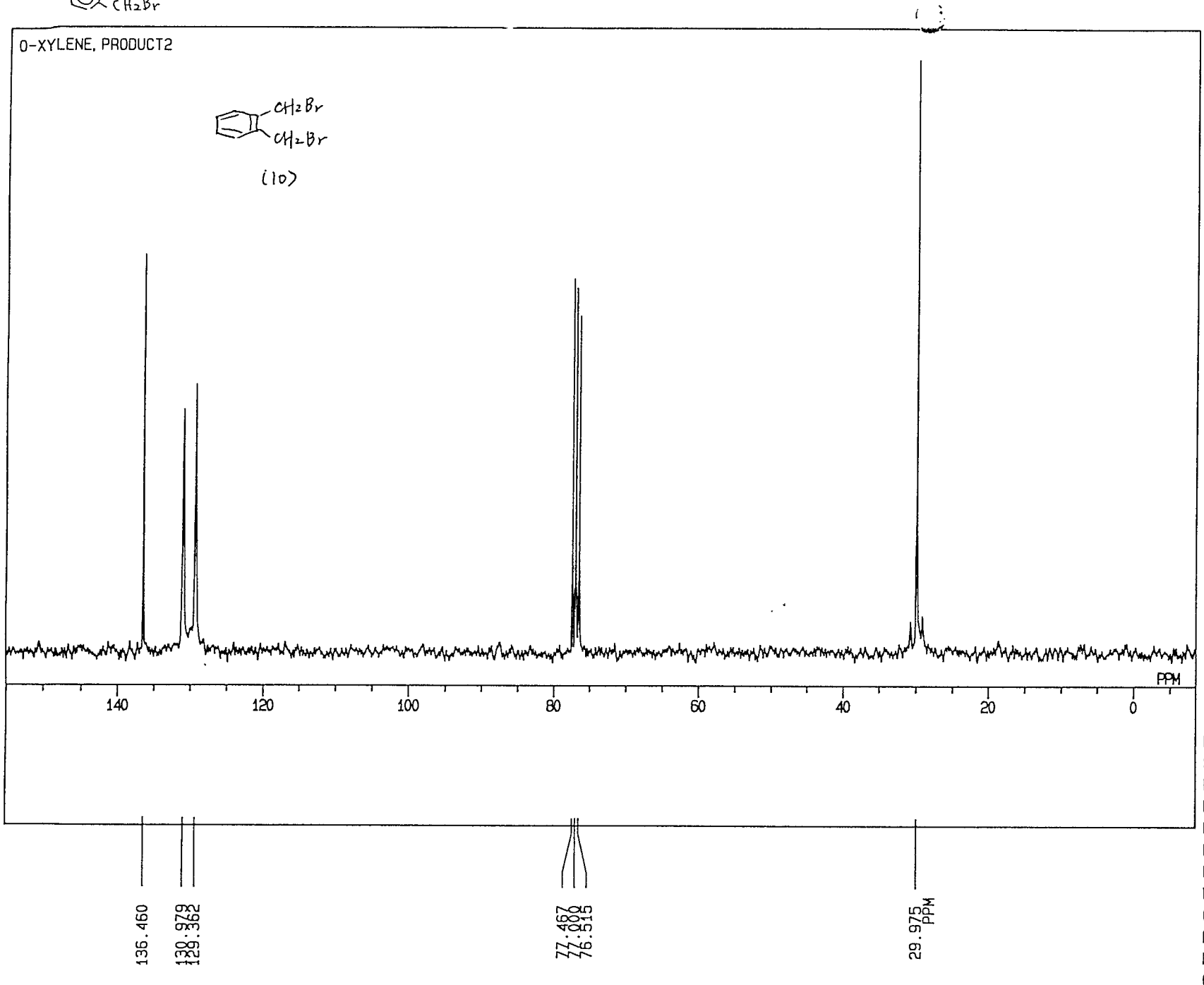
LKPHS 97 deg
LKSIG 633
CSPED 22 Hz
FILDC -61
FILDF 78
OPERATOR : _____





06-JUN-96 15:25:29
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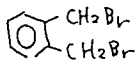
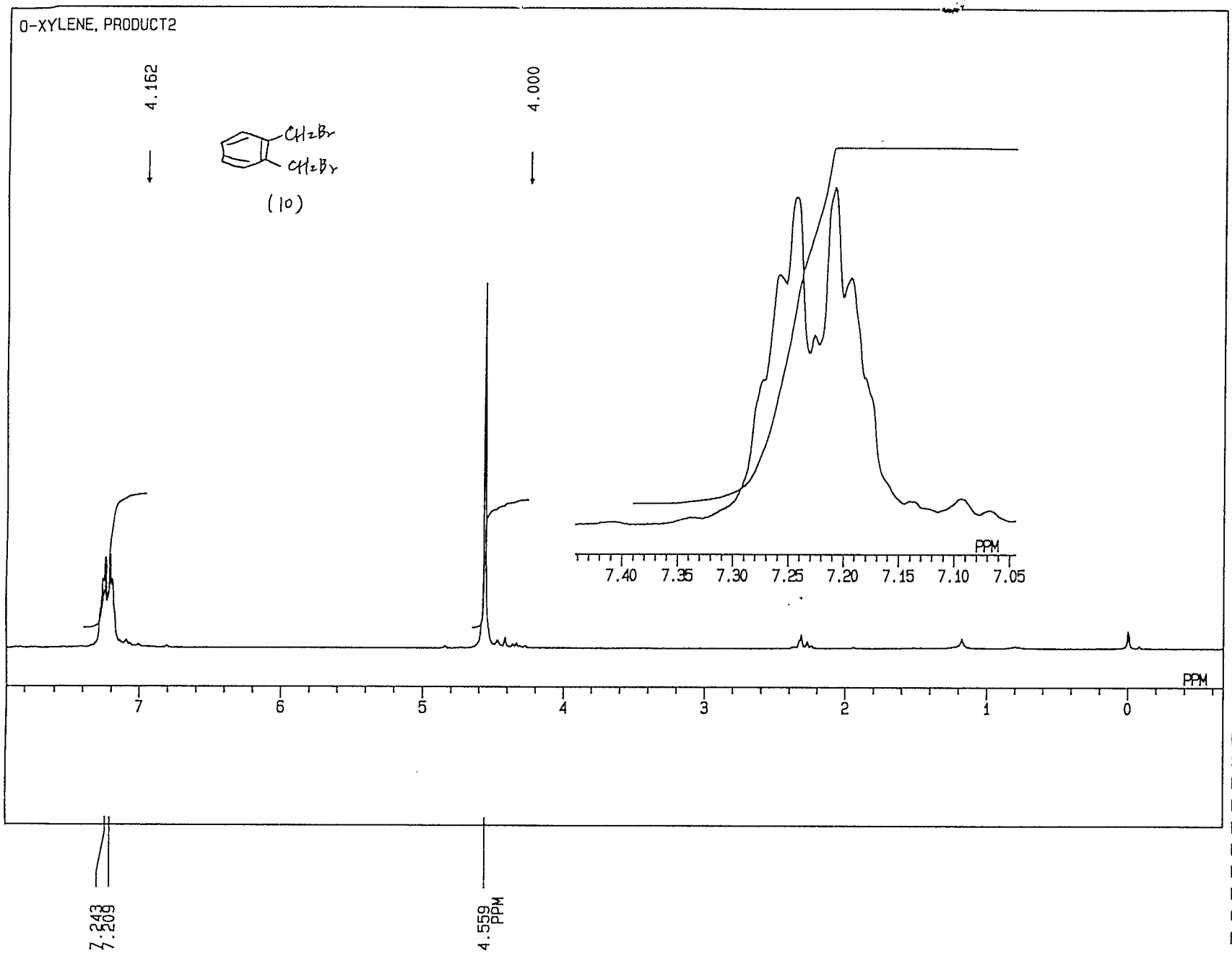
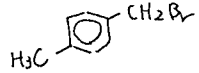
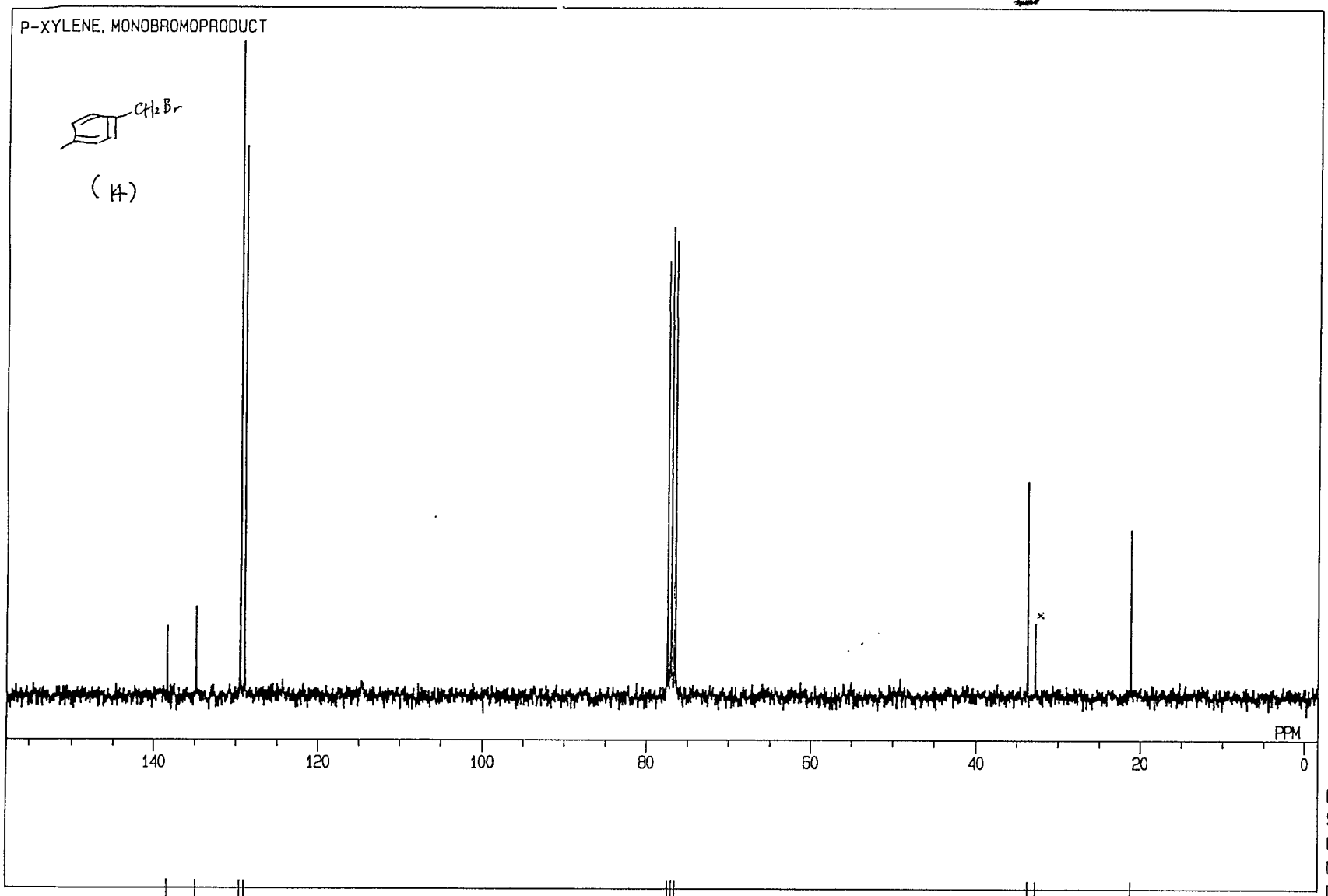
PREDL 0.2000 ms
IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 128
DUMMY 1
FREQU 20000.0 Hz
FLT 10000 Hz
DELAY 20.0 us
ACQTM 0.819 sec
PD 2.181 sec
ADBIT 12
RGAIN 24
BF 1.22 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD BCM
EXPCM Bilevel.complete.dec
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
LGAIN 20
LKPHS 97 deg
LKSIG 599
CSPED 21 Hz
FILDC -61
FILDF 114
OPERATOR : _____





06-JUN-96 15: 32: 15
MENUF NON
OBNUC 1H
OFR 270.05 MHz
OBSET 112.00 kHz
OBFIN 5800.0 Hz
PW1 4.7 us
PREDL 0.2000 ms
IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 16
DUMMY 1
FREQU 5405.4 Hz
FLT 2700 Hz
DELAY 74.1 us
ACQTM 3.031 sec
PD 3.969 sec
ADBIT 12
RGAIN 19
BF 0.16 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD NON
EXPCM NON: Single.coupled: P
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
LGAIN 20
LKPHS 97 deg
LKSIG 599
CSPED 22 Hz
FILDC -61
FILDF 114
OPERATOR : _____





11-JUL-96 18: 41: 57

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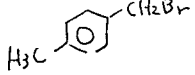
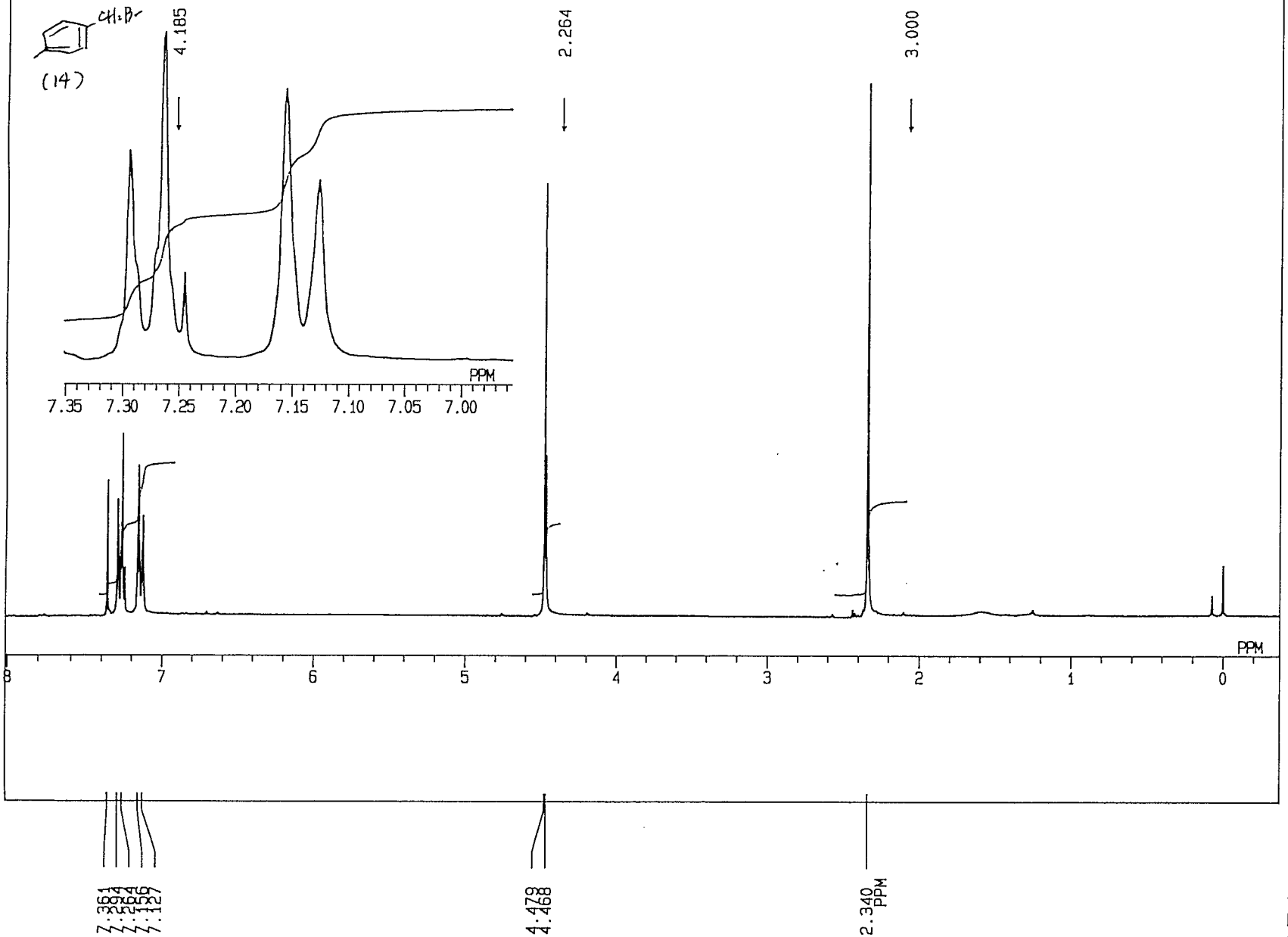
IWT	1.0 sec
POINT	32768
SPO	32768
TIMES	128
DUMMY	1
FREQU	20000.0 Hz
FLT	10000 Hz
DELAY	20.0 us
ACQTM	0.819 sec
PD	2.181 sec
ADBIT	12
RGAIN	28
BF	1.22 Hz
T1	0.0 %
T2	0.0 %
T3	90.0 %
T4	100.0 %
EXMOD	BCM
EXPCM	Bilevel.complete.dec
IRNUC	1H
IFR	270.05 MHz
IRSET	112.00 kHz
IRFIN	5800.0 Hz
IRRPW	50 us
IRATN	511
DFILE	DU:
SF	TH5
LKSET	64.6 kHz
LKFIN	59.0 Hz
LKLEV	200
LGAIN	20
LKPHS	97 deg
LKSIG	306
CSPED	17 Hz
FILDC	-61
FILDF	87

OPERATOR : _____



P-XYLENE, MONOBROMOPRODUCT

(14)



11-JUL-96 18:50:11
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OBSET 112.00 kHz
OBFIN 5800.0 Hz
PW1 4.7 us
PREDL 0.2000 ms
IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 16
DUMMY 1
FREQU 5405.4 Hz
FLT 2700 Hz
DELAY 74.1 us
ACQTM 3.031 sec
PD 3.969 sec
ADBIT 12
RGAIN 15
BF 0.16 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD NON
EXPCM NON: Single.coupled: P
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
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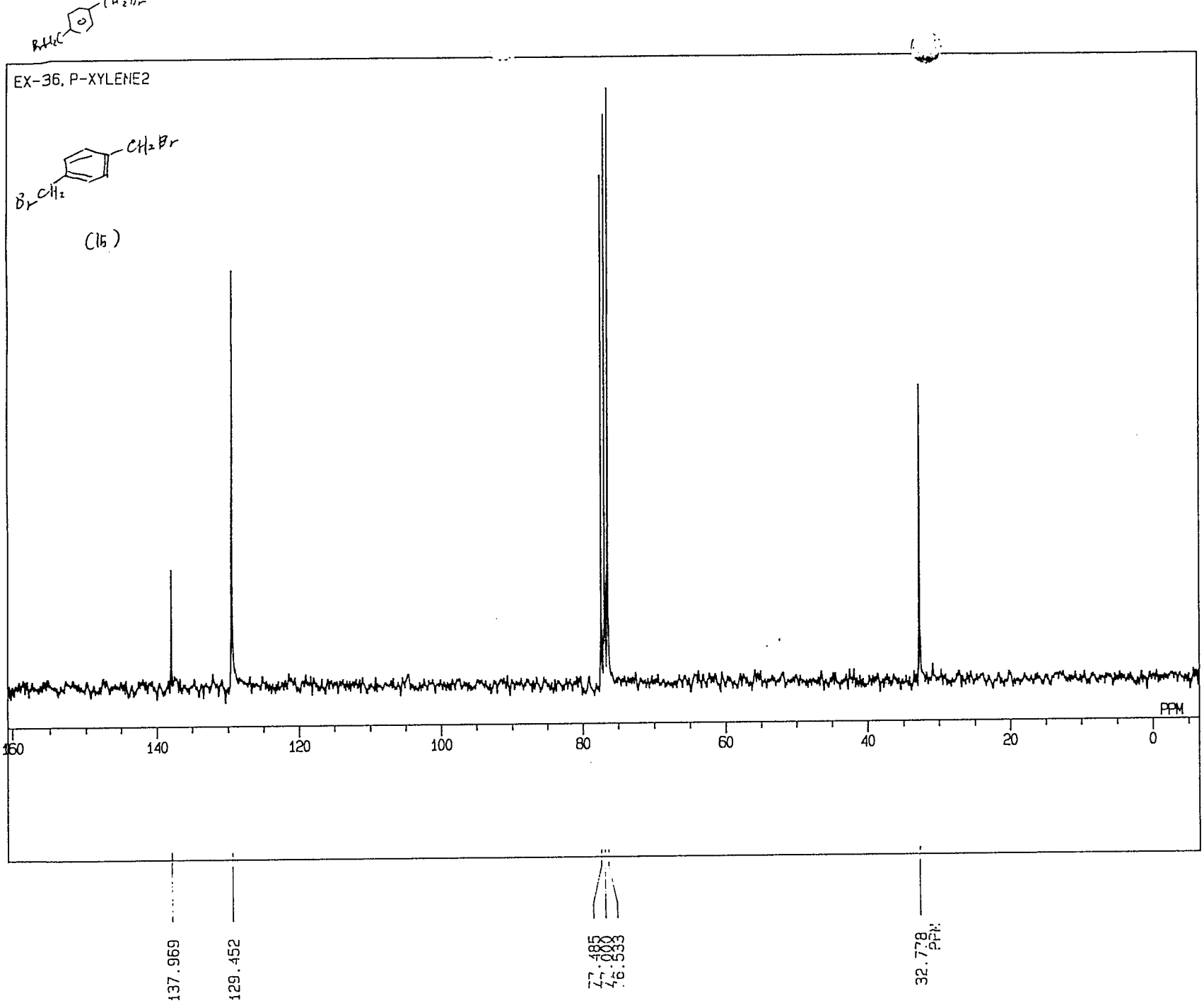
LKPHS 97 deg
LKSIG 306
CSPED 17 Hz
FILDC -61
FILDF 87
OPERATOR : _____



18-MAY-96 12:10:13
MENUF BCM
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OBSET 135.00 kHz
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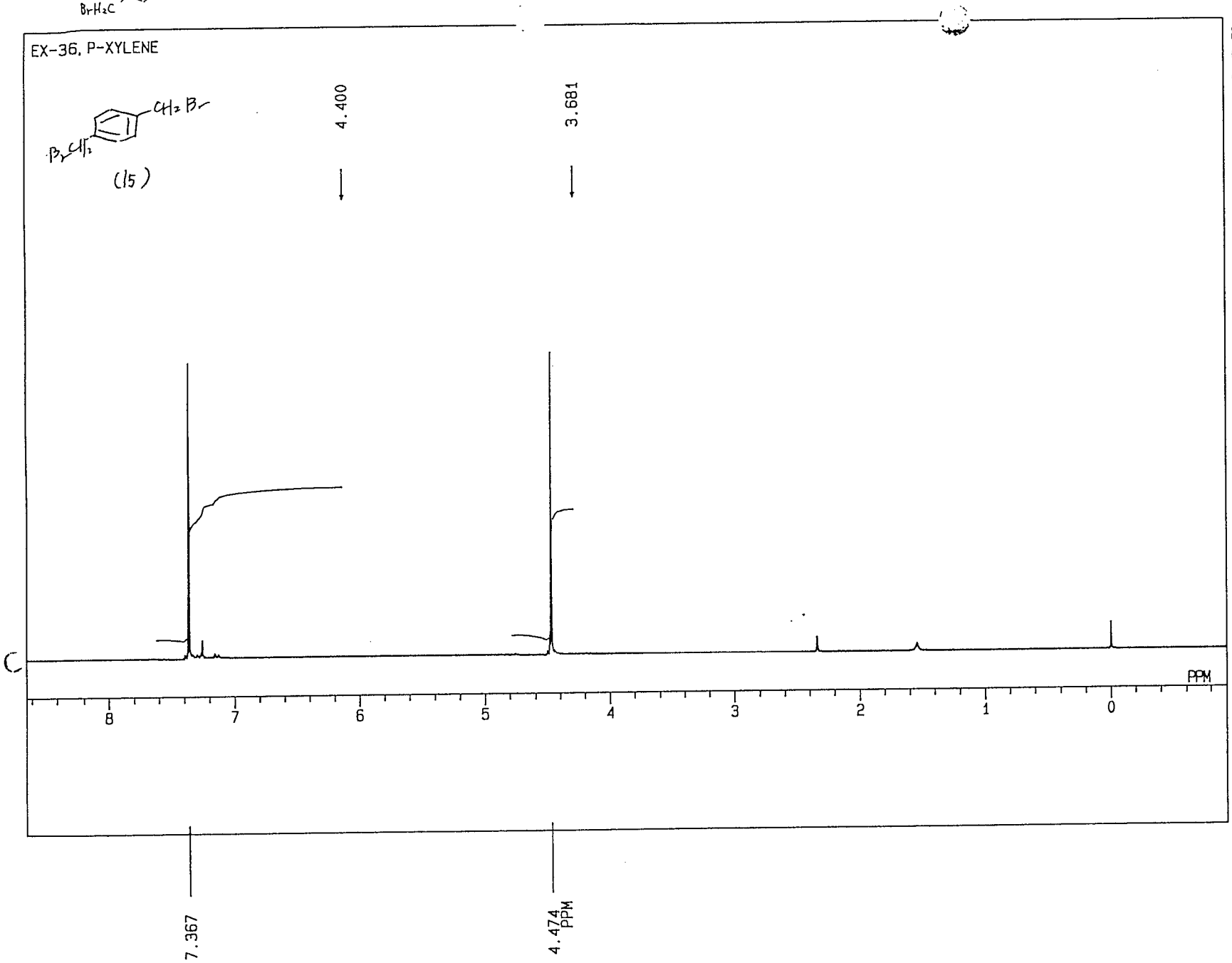
PREDL 0.2000 ms
IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 128
DUMMY 1
FREQU 20000.0 Hz
FLT 10000 Hz
DELAY 30.0 us
ACQTM 0.819 sec
PD 2.181 sec
ADBIT 12
RGAIN 34
SF 1.22 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD BCM
EXPCM Bilevel.complete.de
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRPPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
LGAIN 20
LKPHS 97 deg
LKSIG 540
CSPED 23 Hz
FILDC -61
FILDF 105
OPERATOR : _____



18-MAY-96 11:10:48
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OBSET 112.00 kHz
OBFIN 5800.0 Hz
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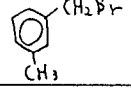
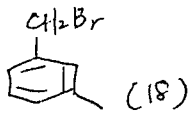
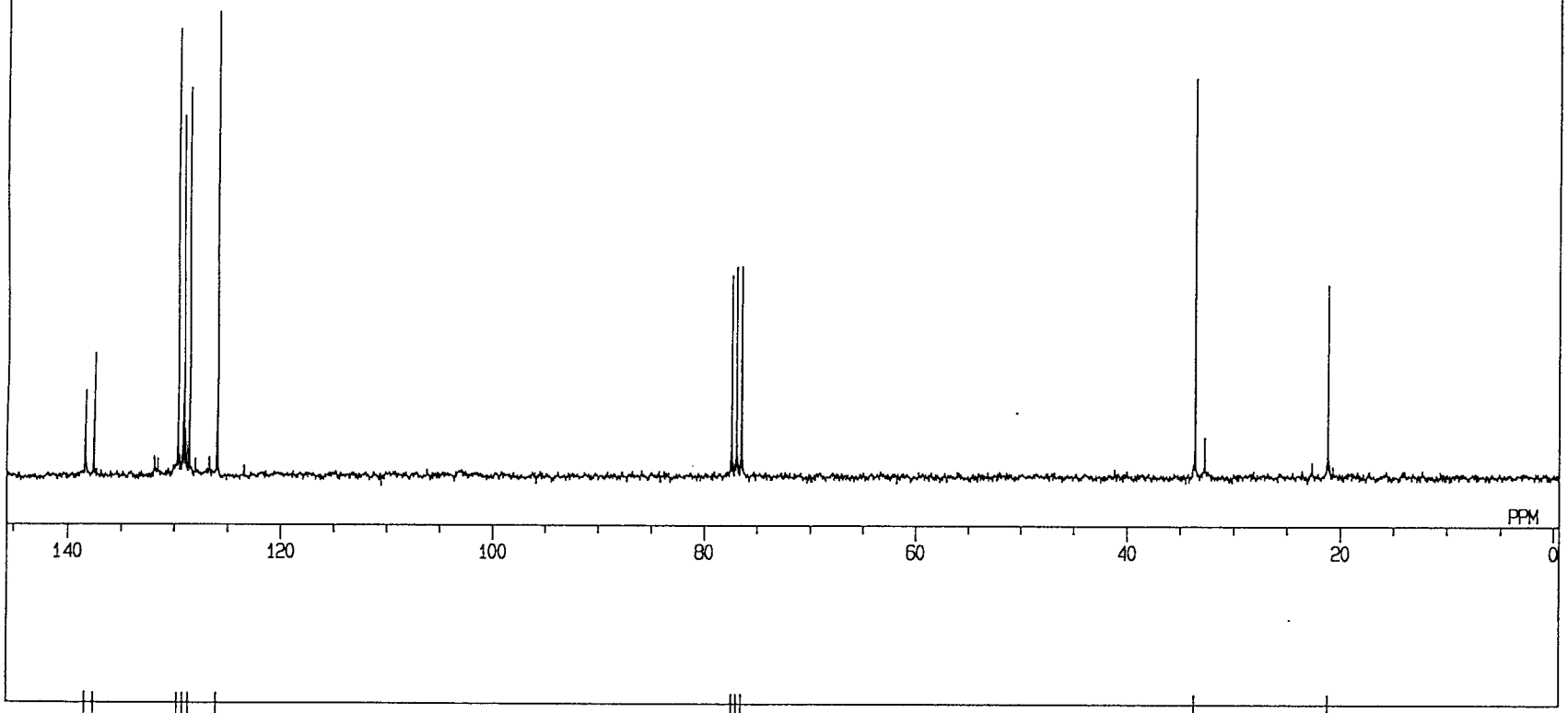
PREDL 0.2000 ms
IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 16
DUMMY 1
FREQU 5405.4 Hz
FLT 2700 Hz
DELAY 74.1 us
ACQTM 3.031 sec
PD 3.969 sec
ADBIT 12
RGAIN 18
BF 0.16 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD NON
EXPCM NON: Single.coupled: F
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
LGAIN 20
LKPHS 97 deg
LKSIG 540
CSPED 24 Hz
FILDC -61
FILDF 105
OPERATOR : _____



M-XYLENE, MONOBENZYLPRODUCT





138.436
137.610
129.667
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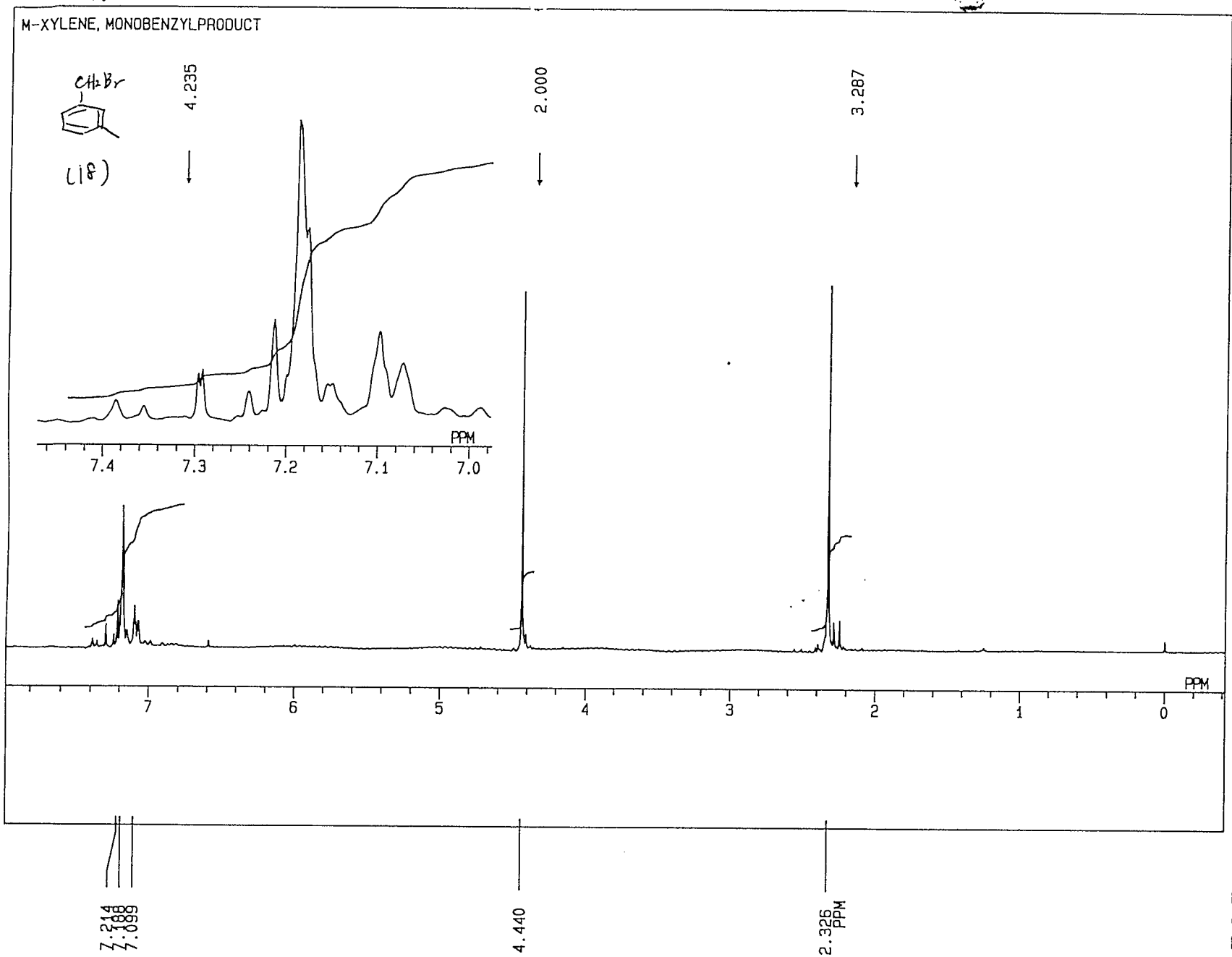
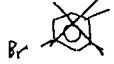
77.000
76.533
33.676
21.224 PPM

14-OCT-93 04: 10: 59
MENUF BCM
OBNUC 13C
OFR 67.80 MHz
OBSET 135.00 kHz
OBFIN 5200.0 Hz
PW1 4.3 us
PREDL 0.2000 ms
IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 128
DUMMY 1
FREQU 20000.0 Hz
FLT 10000 Hz
DELAY 20.0 us
ACQTM 0.819 sec
PD 2.181 sec
ADBIT 12
RGAIN 28
BF 1.22 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD BCM
EXPCM Bilevel.complete.dec
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
LGAIN 20
LKPHS 97 deg
LKSIG 306
CSPED 15 Hz
FILDC -64
FILDF 76
OPERATOR : _____

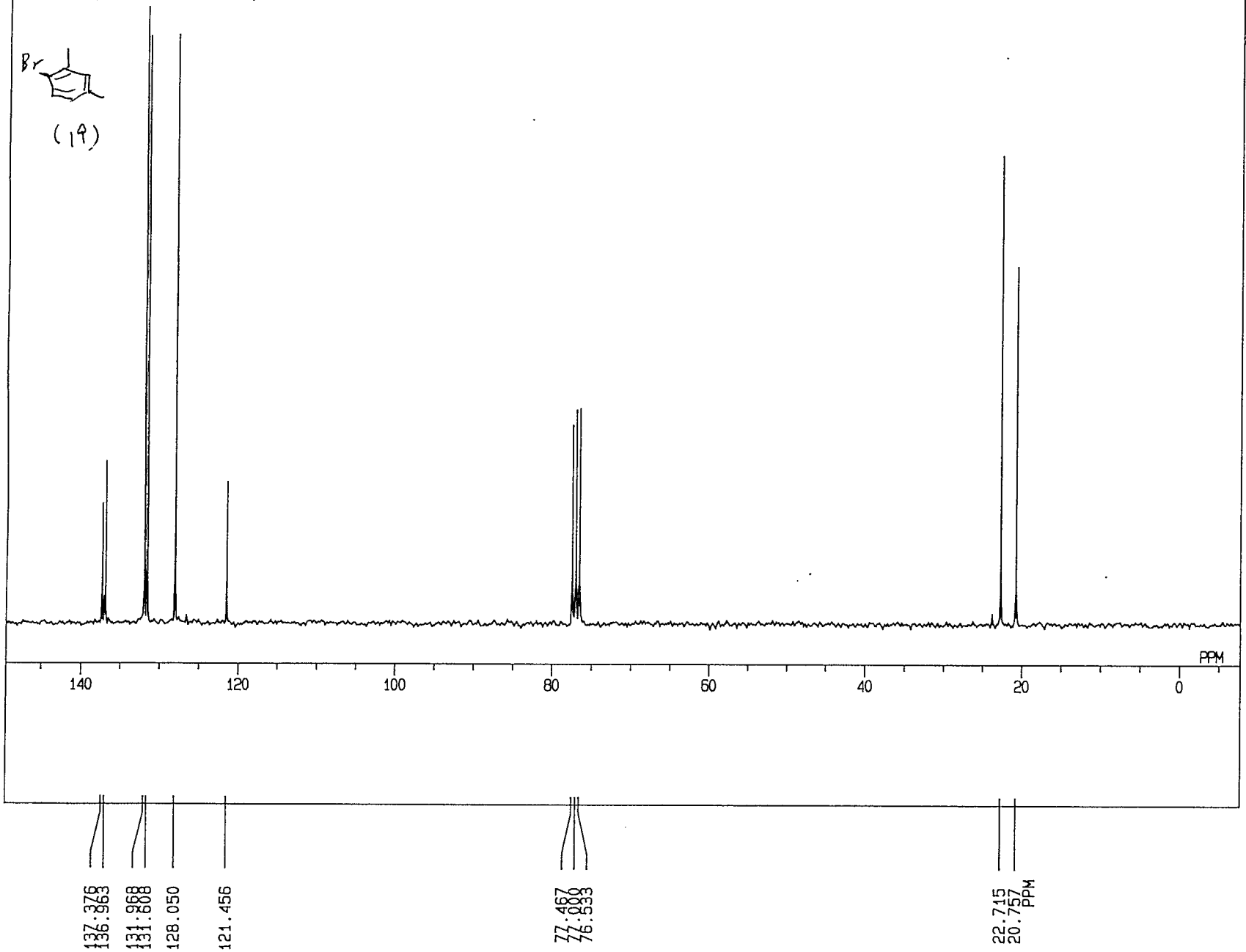


14-OCT-93 04:35:06
MENUF NON
OBNUC 1H
OFR 270.05 MHz
OBSET 112.00 kHz
OBFIN 5800.0 Hz
PW1 4.7 us
PREDL 0.2000 ms
IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 16
DUMMY 1
FREQU 5405.4 Hz
FLT 2700 Hz
DELAY 74.1 us
ACQTM 3.031 sec
PD 3.969 sec
ADBIT 12
RGAIN 11
BF 0.16 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD NON
EXPCM NON: Single.coupled: PW
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
LGAIN 20
LKPHS 97 deg
LKSIG 306
CSPED 16 Hz
FILDC -64
FILDF 76
OPERATOR : _____



M-XYLENE, MONOBROMOPRODUCT, CH3CN-SYSTEM

(19)

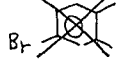


1996. 7. 17 16:10

~~14 OCT 93 10:03:20~~

MENUF	BCM
OBNUC	13C
OFR	67.80 MHz
OBSET	135.00 kHz
OBFIN	5200.0 Hz
PW1	4.3 us
PREDL	0.2000 ms
IWT	1.0 sec
POINT	32768
SPO	32768
TIMES	128
DUMMY	1
FREQU	20000.0 Hz
FLT	10000 Hz
DELAY	20.0 us
ACQTM	0.819 sec
PD	2.181 sec
ADBIT	12
RGAIN	28
BF	1.22 Hz
T1	0.0 %
T2	0.0 %
T3	90.0 %
T4	100.0 %
EXMOD	BCM
EXPCM	Bilevel.complete.dec
IRNUC	1H
IFR	270.05 MHz
IRSET	112.00 kHz
IRFIN	5800.0 Hz
IRRPW	50 us
IRATN	511
DFILE	DU:
SF	TH5
LKSET	64.6 kHz
LKFIN	59.0 Hz
LKLEV	200
LGAIN	20
LKPHS	97 deg
LKSIG	622
CSPED	16 Hz
FILDC	-61
FILDF	122

OPERATOR : _____



1996 2.17 16:16

~~14-OCT-93 10:10:14~~

M-XYLENE, MONOBROMOPRODUCT, CH3CN-SYSTEM

(19)

0.859 1.044 0.790 6.000

PPM

7.6 7.5 7.4 7.3 7.2 7.1 7.0 6.9 6.8 6.7

7 6 5 4 3 2

7.378 7.349 7.018 6.841 2.396 2.334 2.244 PPM

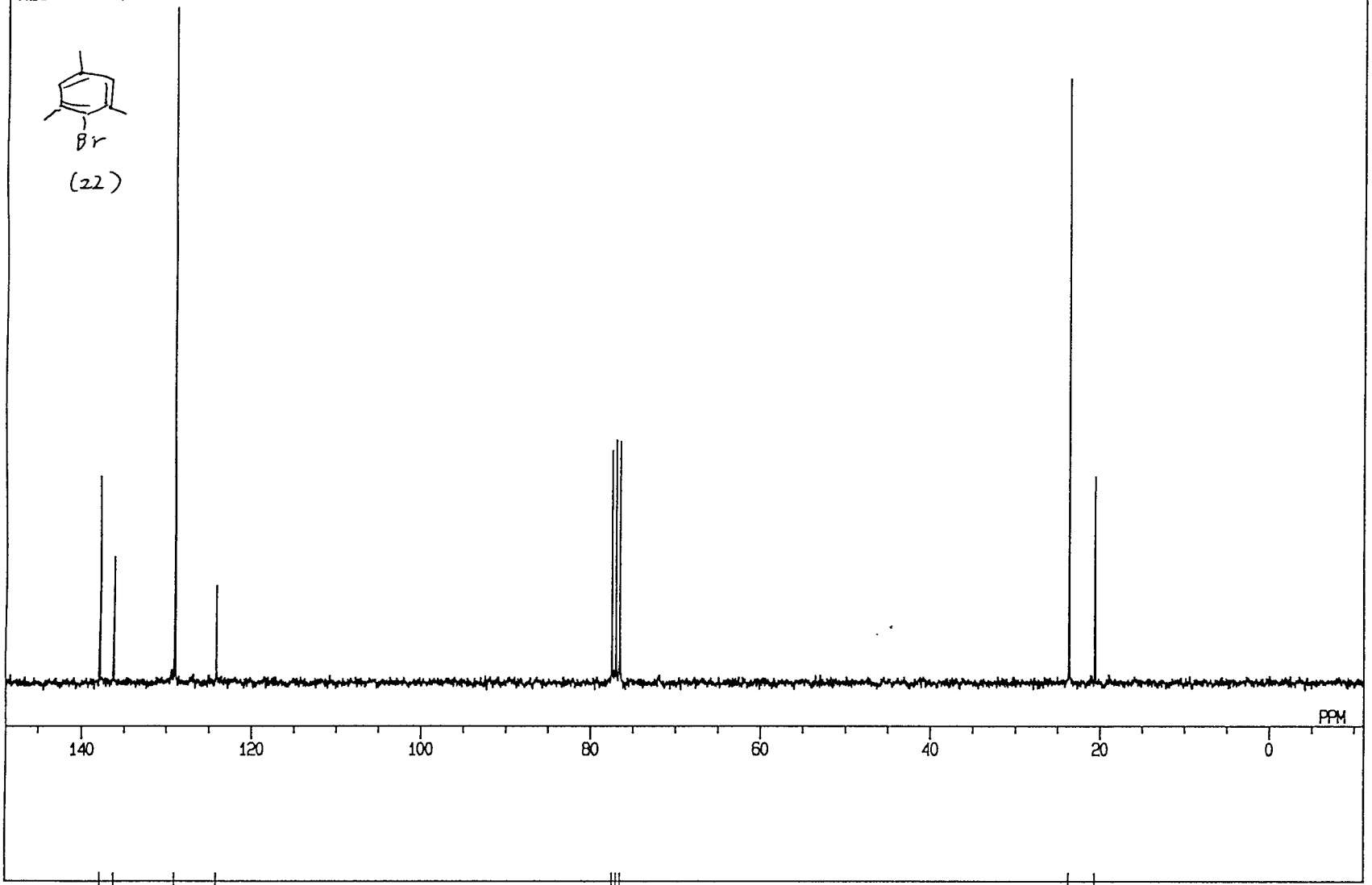
MENUF	NON
OBNUC	1H
OFR	270.05 MHz
OBSET	112.00 kHz
OBFIN	5800.0 Hz
PW1	4.7 us
PREDL	0.2000 ms
IWT	1.0 sec
POINT	32768
SPO	32768
TIMES	16
DUMMY	1
FREQU	5405.4 Hz
FLT	2700 Hz
DELAY	74.1 us
ACQTM	3.031 sec
PD	3.969 sec
ADBIT	12
RGAIN	10
BF	0.16 Hz
T1	0.0 %
T2	0.0 %
T3	90.0 %
T4	100.0 %
EXMOD	NON
EXPCM	NON: Single.coupled: P
IRNUC	1H
IFR	270.05 MHz
IRSET	112.00 kHz
IRFIN	5800.0 Hz
IRRPW	50 us
IRATN	511
DFILE	DU:
SF	TH5
LKSET	64.6 kHz
LKFIN	59.0 Hz
LKLEV	200
LGAIN	20
LKPHS	97 deg
LKSIG	622
CSPED	16 Hz
FILDC	-61
FILDF	122

OPERATOR : _____

^{13}C

MESITYLENE, BROMOMESITYLENE

(22)



27-JUN-96 13:05:15

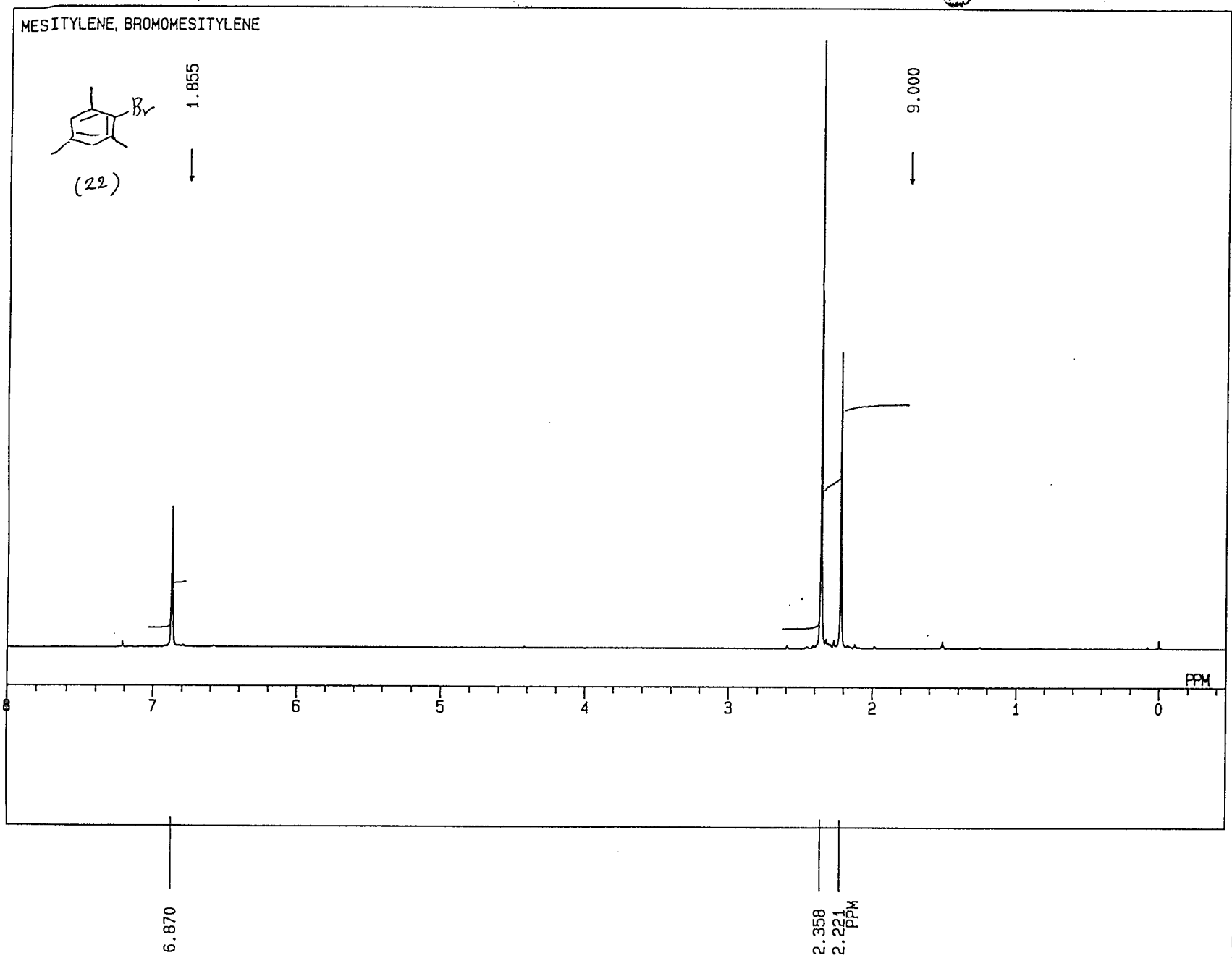
MENUF	BCM
OBNUC	13C
OFR	67.80 MHz
OBSET	135.00 kHz
OBFIN	5200.0 Hz
PW1	4.3 us
PREDL	0.2000 ms
IWT	1.0 sec
POINT	32768
SPO	32768
TIMES	128
DUMMY	1
FREQU	20000.0 Hz
FLT	10000 Hz
DELAY	20.0 us
ACQTM	0.819 sec
PD	2.181 sec
ADBIT	12
RGAIN	28
BF	1.22 Hz
T1	0.0 %
T2	0.0 %
T3	90.0 %
T4	100.0 %
EXMOD	BCM
EXPCM	Bilevel.complete.dec
IRNUC	1H
IFR	270.05 MHz
IRSET	112.00 kHz
IRFIN	5800.0 Hz
IRRPW	50 us
IRATN	511
DFILE	DU:
SF	TH5
LKSET	64.6 kHz
LKFIN	59.0 Hz
LKLEV	200
LGAIN	20
LKPHS	97 deg
LKSIG	794
CSPED	14 Hz
FILDC	-64
FILDF	76

OPERATOR : _____

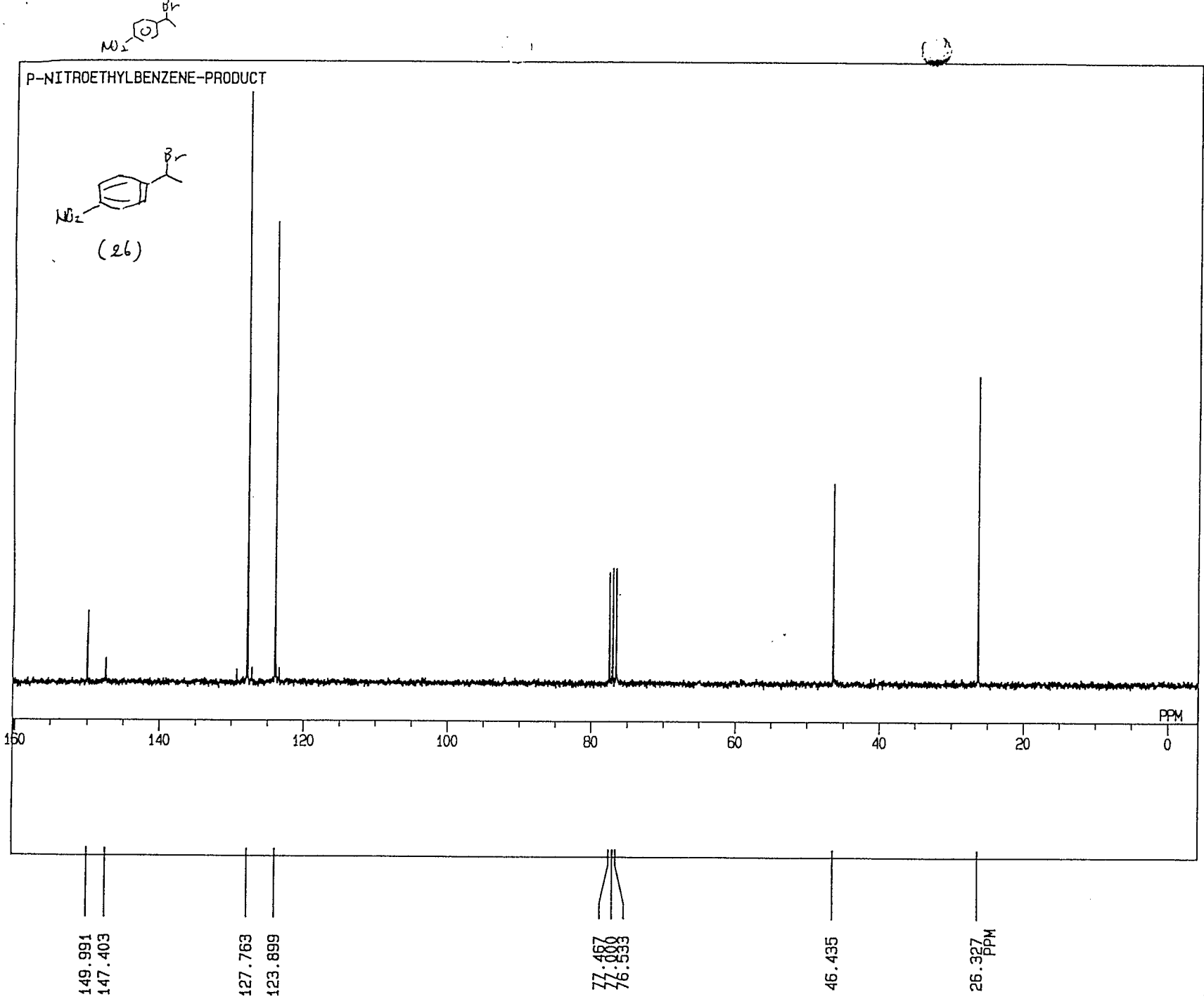
^1H

MESITYLENE, BROMOMESITYLENE

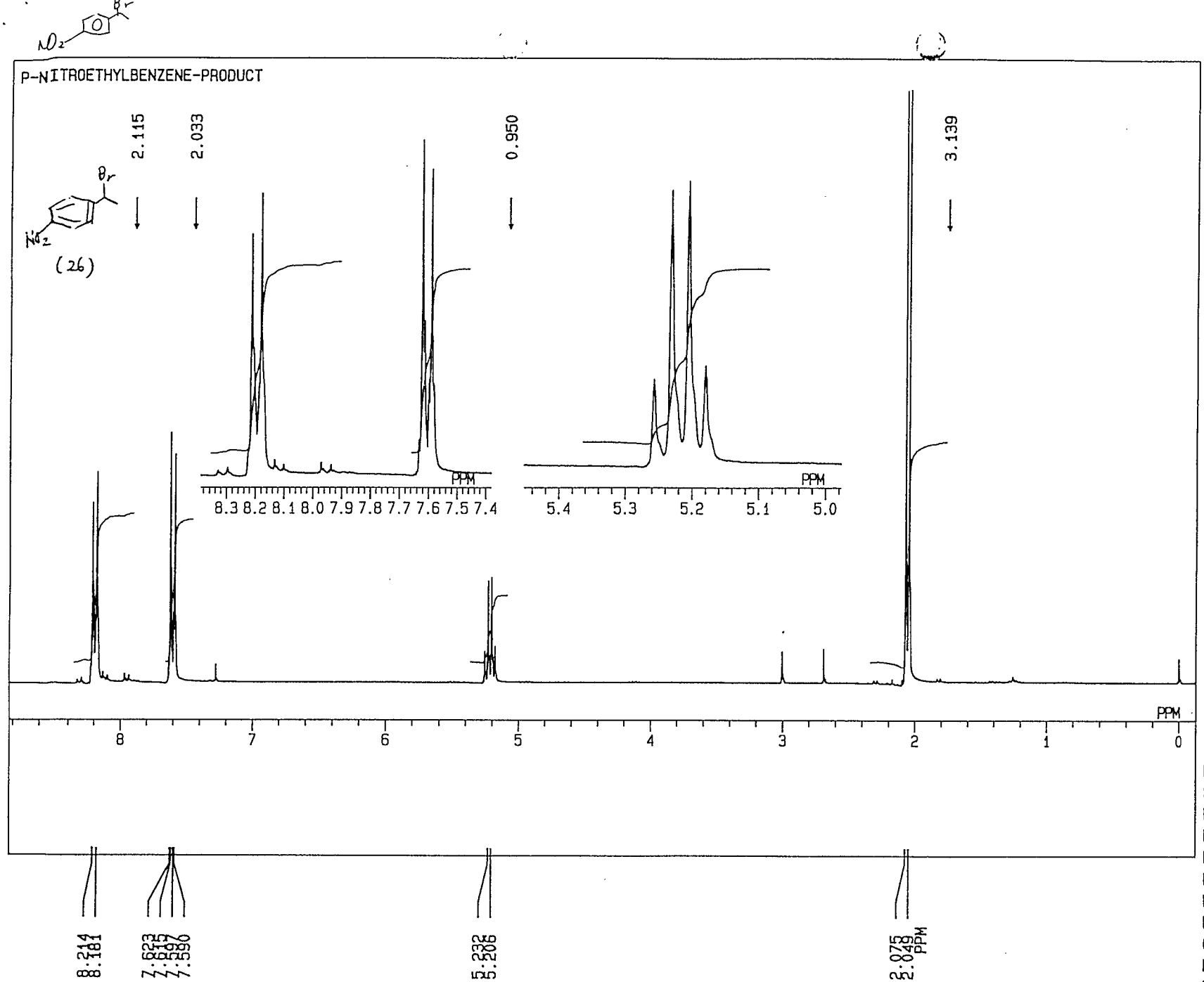
(22)



27-JUN-96 13: 13: 13
MENUF NON
OBNUC 1H
OFR 270.05 MHz
OBSET 112.00 kHz
OBFIN 5800.0 Hz
PW1 4.7 us
PREDL 0.2000 ms
IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 16
DUMMY 1
FREQU 5405.4 Hz
FLT 2700 Hz
DELAY 74.1 us
ACQTM 3.031 sec
PD 3.969 sec
ADBIT 12
RGAIN 12
BF 0.16 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD NON
EXPCM NON: Single.coupled: P
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
LGAIN 20
LKPHS 97 deg
LKSIG 794
CSPED 14 Hz
FILDC -64
FILDF 76
OPERATOR : _____



16-DEC-96 13:09:07
MENUF BCM
OBNUC 13C
OFR 67.80 MHz
OBSET 135.00 kHz
OBFIN 5200.0 Hz
PW1 4.3 us
PREDL 0.2000 ms
IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 128
DUMMY 1
FREQU 20000.0 Hz
FLT 10000 Hz
DELAY 20.0 us
ACQTM 0.819 sec
PD 2.181 sec
ADBIT 12
RGAIN 27
BF 1.22 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD BCM
EXPCM Bilevel.complete.dec
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
LGAIN 20
LKPHS 101 deg
LKSIG 221
CSPED 16 Hz
FILDC -60
FILDF 111
OPERATOR : _____



16-DEC-96 13: 16: 48
MENUF NON
OBNUC 1H
OFR 270.05 MHz
OBSET 112.00 kHz
OBFIN 5800.0 Hz
PW1 4.7 us
PREDL 0.2000 ms
IWT 1.0 sec
POINT 32768
SPO 32768
TIMES 16
DUMMY 1
FREQU 5405.4 Hz
FLT 2700 Hz
DELAY 74.1 us
ACQTM 3.031 sec
PD 3.969 sec
ADBIT 12
RGAIN 12
BF 0.16 Hz
T1 0.0 %
T2 0.0 %
T3 90.0 %
T4 100.0 %
EXMOD NON
EXPCM NON: Single.coupled: P
IRNUC 1H
IFR 270.05 MHz
IRSET 112.00 kHz
IRFIN 5800.0 Hz
IRRPW 50 us
IRATN 511
DFILE DU:
SF TH5
LKSET 64.6 kHz
LKFIN 59.0 Hz
LKLEV 200
LGAIN 20
LKPHS 101 deg
LKSIG 221
CSPED 17 Hz
FILDC -60
FILDF 111
OPERATOR : _____