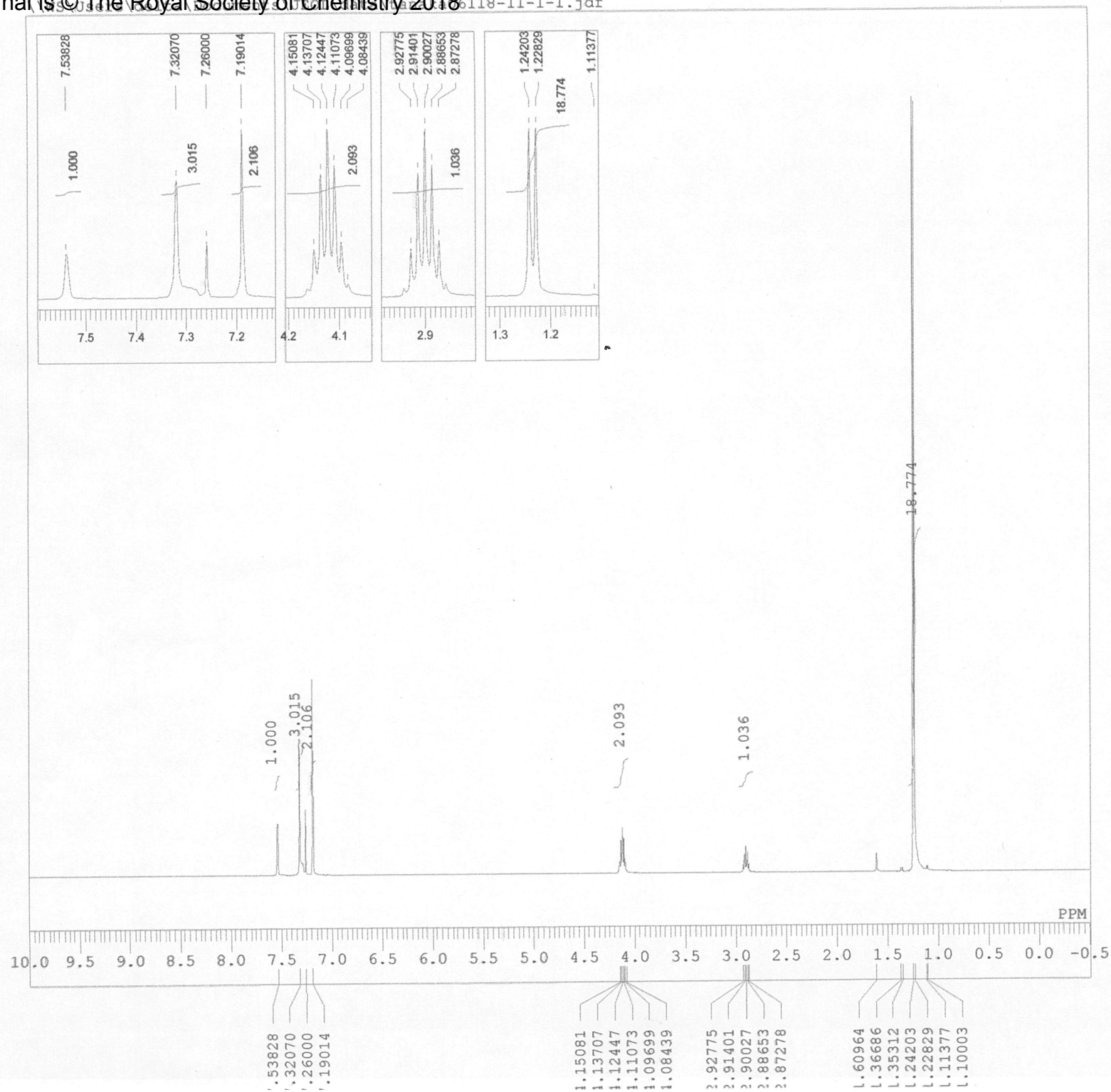
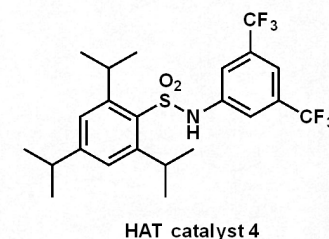


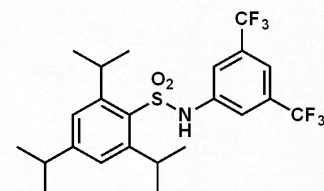
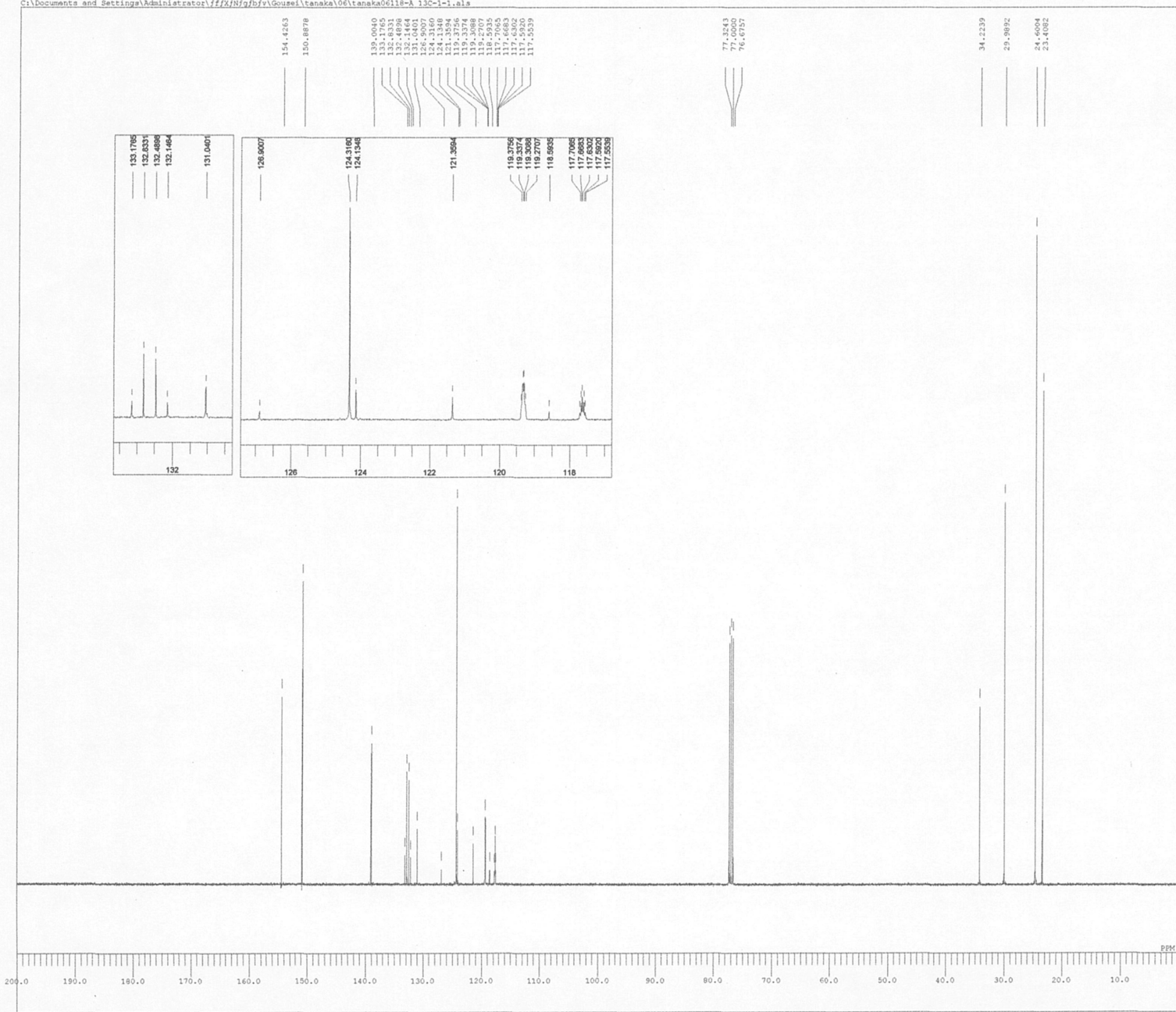


DFILE tanaka06118-11-1-1.jdf
 COMNT
 DATIM 2017-11-22 10:37:26
 OBNUC 1H
 EXMOD proton.jxp
 OBFRQ 500.16 MHz
 OBSET 2.41 KHz
 OBFIN 6.01 Hz
 POINT 16384
 FREQU 9384.38 Hz
 SCANS 8
 ACQTM 1.7459 sec
 PD 5.0000 sec
 PW1 5.55 usec
 IRNUC 1H
 CTEMP 21.5 c
 SLVNT CDCL3
 EXREF 7.26 ppm
 BF 0.12 Hz
 RGAIN 30

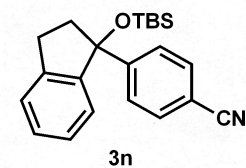
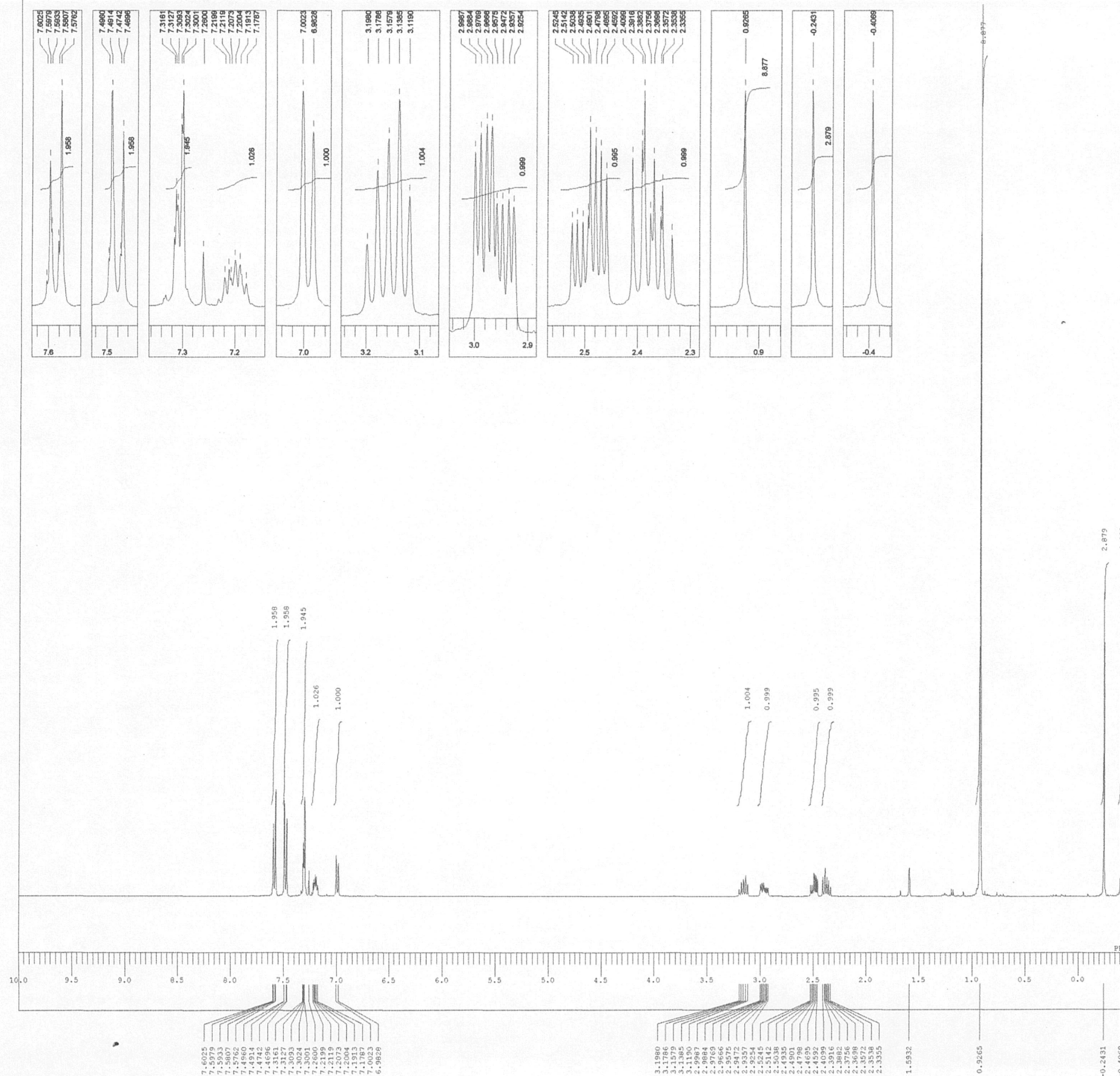


C:\Documents and Settings\Administrator\ff\X\N\g\bf\Gouss\Tanaka\06\tanaka06118-A 13C-1-1.als

DFILE tanaka06118-A 13C-1-1.als
 CONNT 23-11-2017 17:13:11
 DATIM 13C
 OBNUC 13C
 EXPRO carbon, 13p
 OBFRQ 98.52 MHz
 OBSET 4.64 KHz
 OBFIN 8.74 Hz
 POINT 26214
 FREQU 24630.54 Hz
 SCANS 2431
 ACQTH 1.0643 sec
 PD 2.0000 sec
 FWL 3.12 usec
 INNUC 1H
 CTMP 20.1 c
 SUNE CDCL3
 EXREF 77.00 ppm
 BF 0.12 Hz
 RGAIN 60

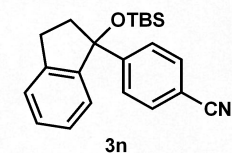
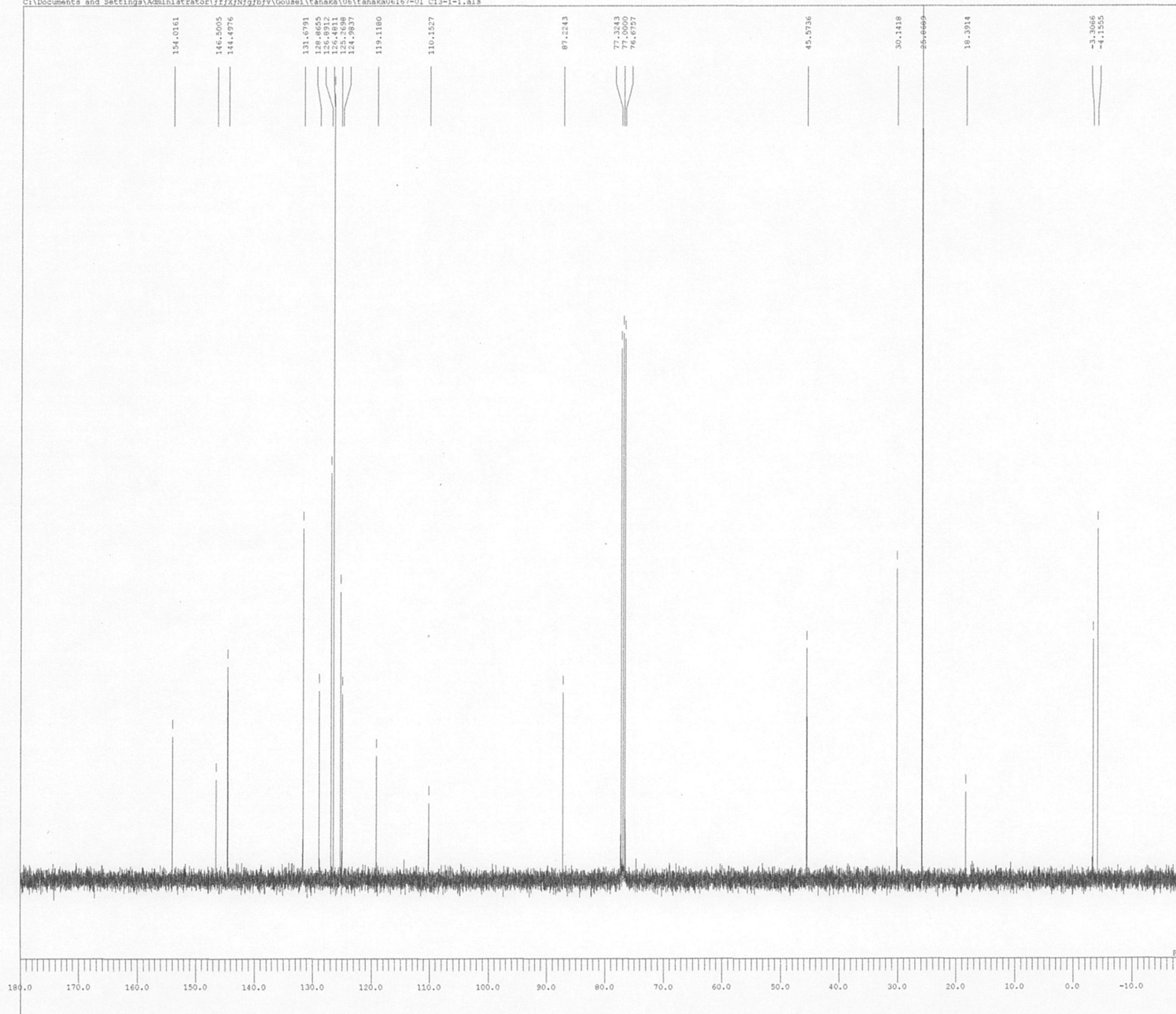


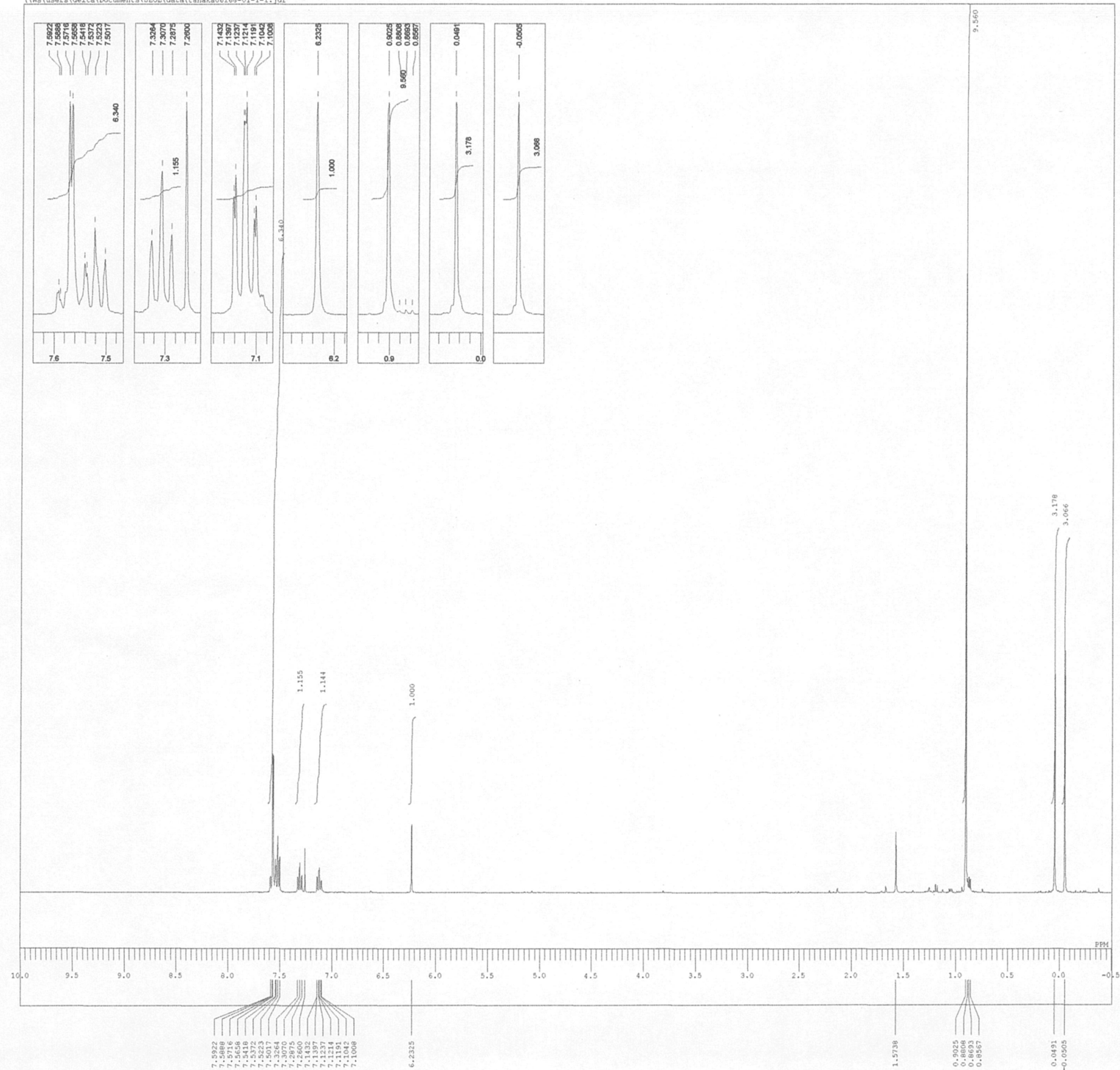
HAT catalyst 4



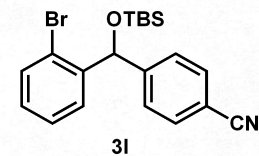
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DT1E tanaka06167-01 C13-1-1.als
 CONNT
 DATIM 08-11-2017 15:21:28
 OBNUC 13C
 EXMOC carbon.jpg
 OBFRQ 99.52 MHz
 OBSET 4.64 KHz
 OBFIN 8.74 Hz
 POINT 26214
 FREQU 24630.54 Hz
 SCANS 128
 ACQTM 1.0643 sec
 PD 2.0000 sec
 PW1 3.12 usec
 TRMUC 1H
 CTEMP 20.6 c
 SLVNT CDCL3
 EXREP 77.00 ppm
 BF 0.12 Hz
 RGAIN 60

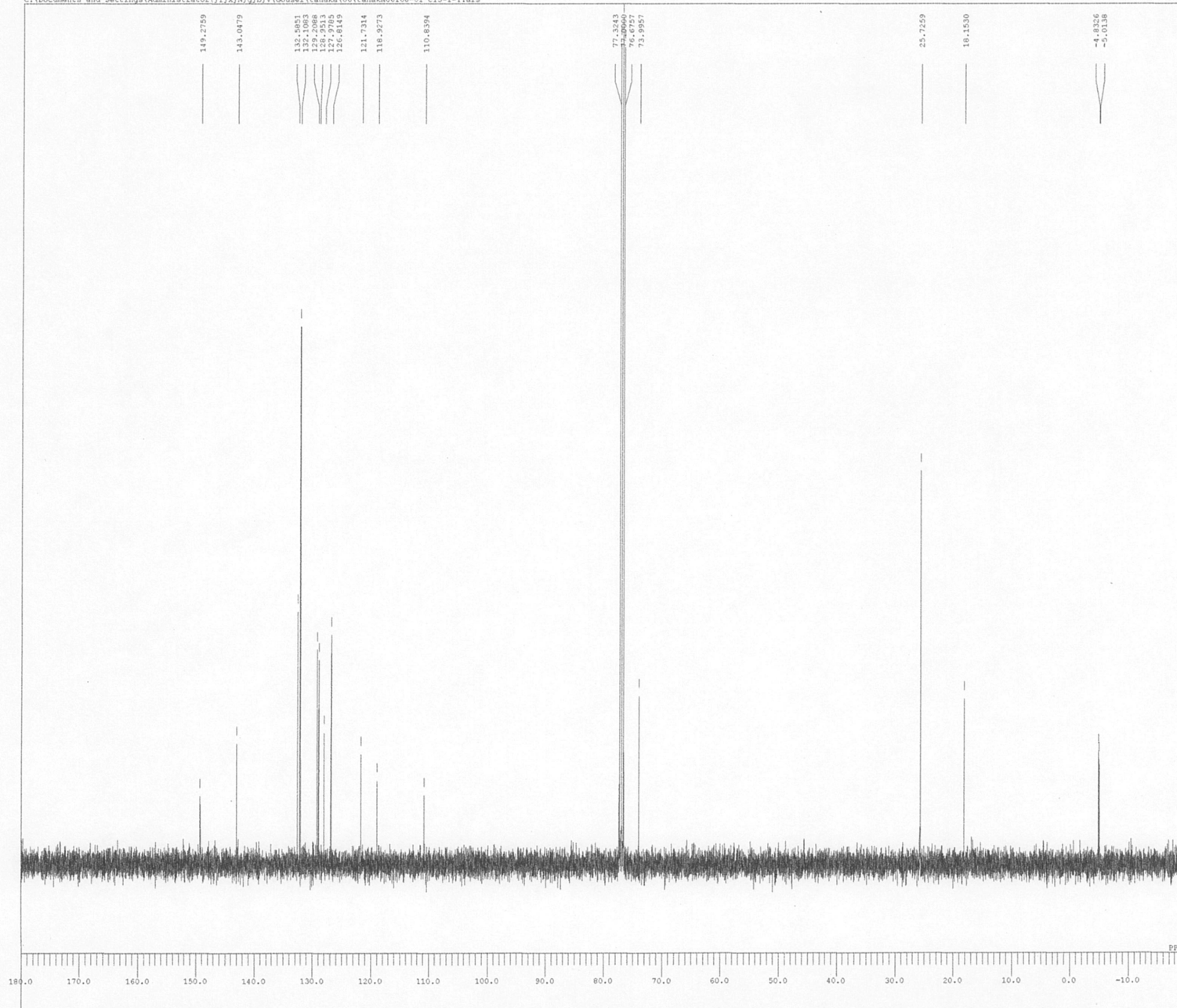




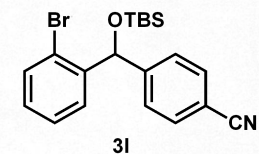
DFILE tanaka06168-01-1-1.jdf
 CQMT 08-11-2017 14:14:52
 ORNUC 1H
 EQM0 proton.1xp
 OBFRQ 391.78 MHz
 OBSET 6.51 kHz
 OBFIN 3.34 Hz
 POINT 16384
 FREQU 7352.94 Hz
 SCANS 9
 ACQTM 2.2282 sec
 PD 5.0000 sec
 PW1 5.22 usec
 IRNUC 1H
 CTMP 20.6 c
 SLINT CDCL3
 EXREF 7.26 ppm
 BF 0.12 Hz
 RGAIN 36

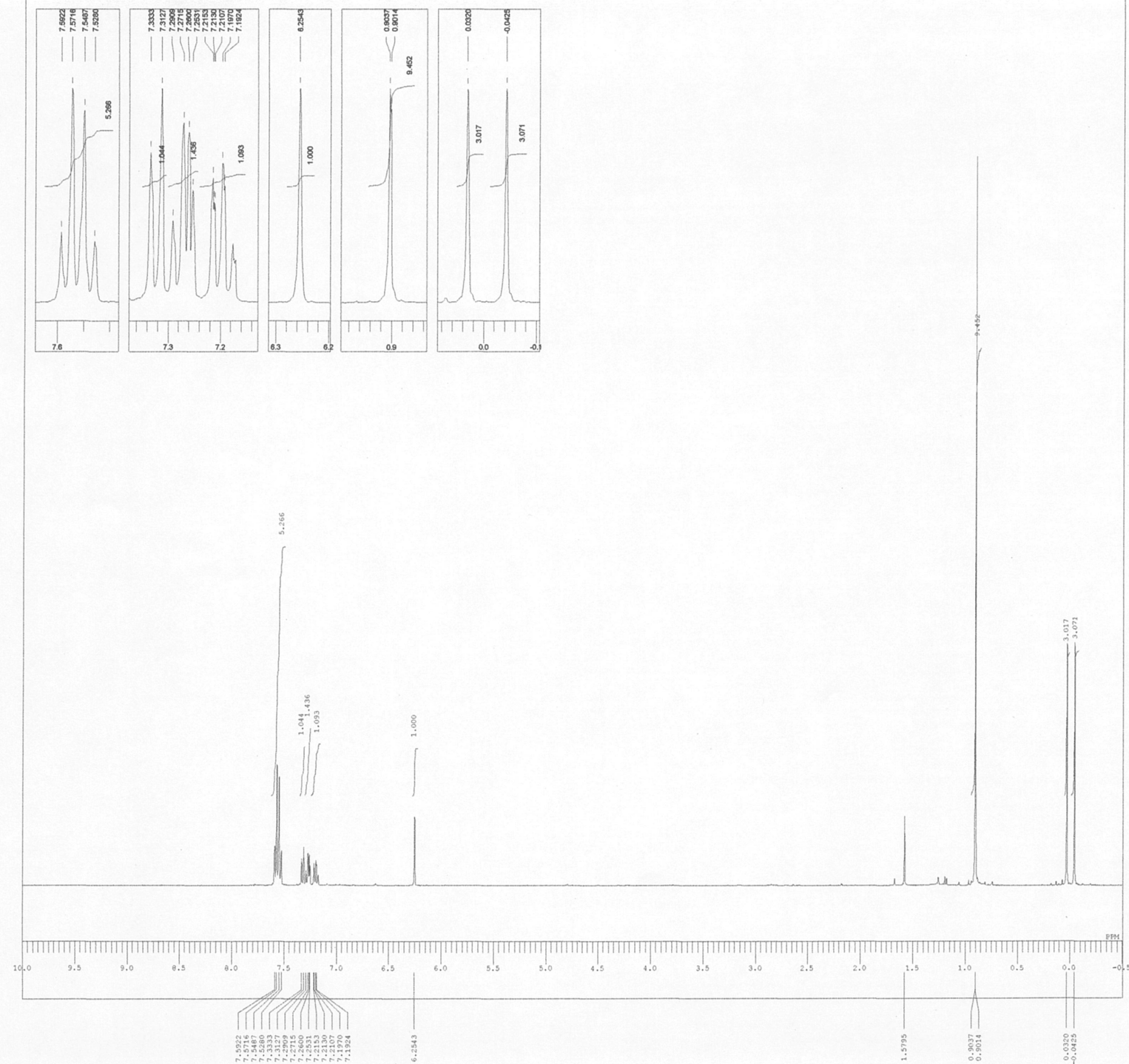


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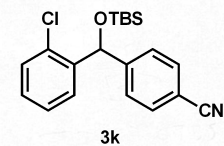


DFILE tanaka06168-01 C13-1-1.a1s
 CNAME
 DATIM 08-11-2017 15:31:41
 OBNUC 13C
 EQMO carbon-13p
 OBFRQ 99.52 MHz
 OBSET 4.64 KHz
 OBFIN 8.74 Hz
 POINT 26214
 FREQU 24630.54 Hz
 SCANS 133
 ACQTM 1.0643 sec
 PD 2.0000 sec
 PW1 3.12 usec
 IRMUC 1H
 CTMP 20.5 c
 SUNIT CDCL3
 EXREF 77.00 ppm
 BF 0.12 Hz
 NGAIN 60

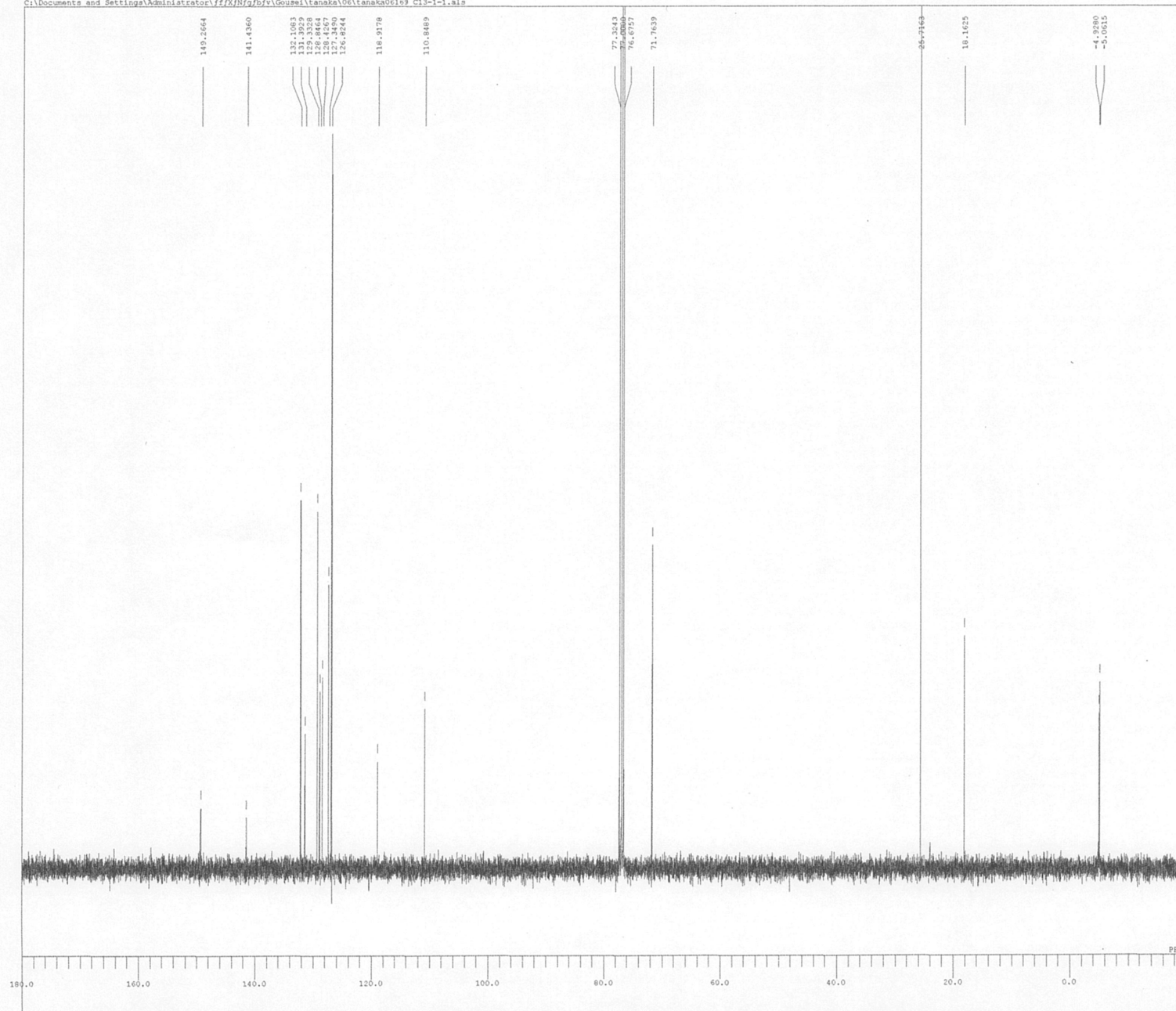




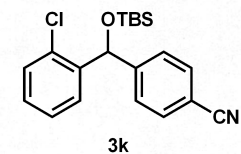
DFILE tanaka06169-01-1-1.jdf
 CPMPT
 DATIM 08-11-2017 14:10:53
 OBNUC 1H
 EMOO proton-1xp
 OBFRQ 391.78 MHz
 OBSET 8.51 MHz
 OBFIN 3.34 Hz
 POINT 16384
 FREQU 7352.94 Hz
 SCANS 8
 ACQTM 2.2282 sec
 PD 5.0000 sec
 FWH 5.22 usec
 IRNUC 1H
 CTMSP 20.6 c
 SLANT CDCL3
 EXREF 7.26 ppm
 BP 0.12 Hz
 RGAIN 34

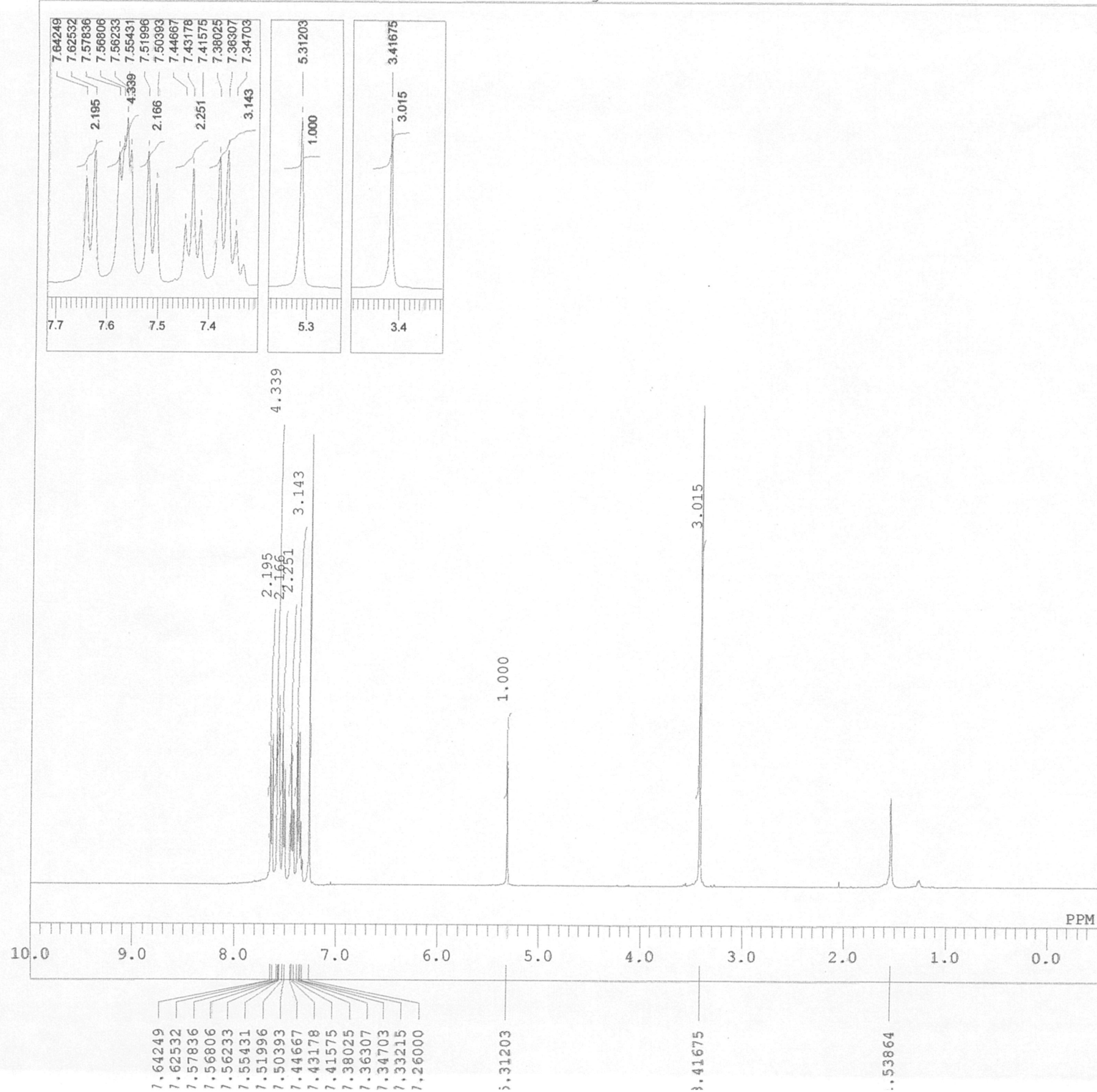


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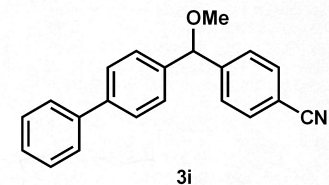


DFILE tanaka06169 C13-1-1.als
 CNAME
 DATIM 08-11-2017 16:04:38
 OBNUC 13C
 EXMOD carbon-13p
 OBFREQ 98.52 MHz
 OBSET 4.64 kHz
 OBTIN 8.74 Hz
 POINT 26214
 FREQU 24630.54 Hz
 SCANS 256
 ACQTM 1.0643 sec
 PD 2.0000 sec
 PW 3.12 usec
 IRNUC 1H
 CTEMP 20.5 c
 SOLVT CDCL3
 EXREF 77.00 ppm
 BF 0.12 Hz
 RGAIN 60

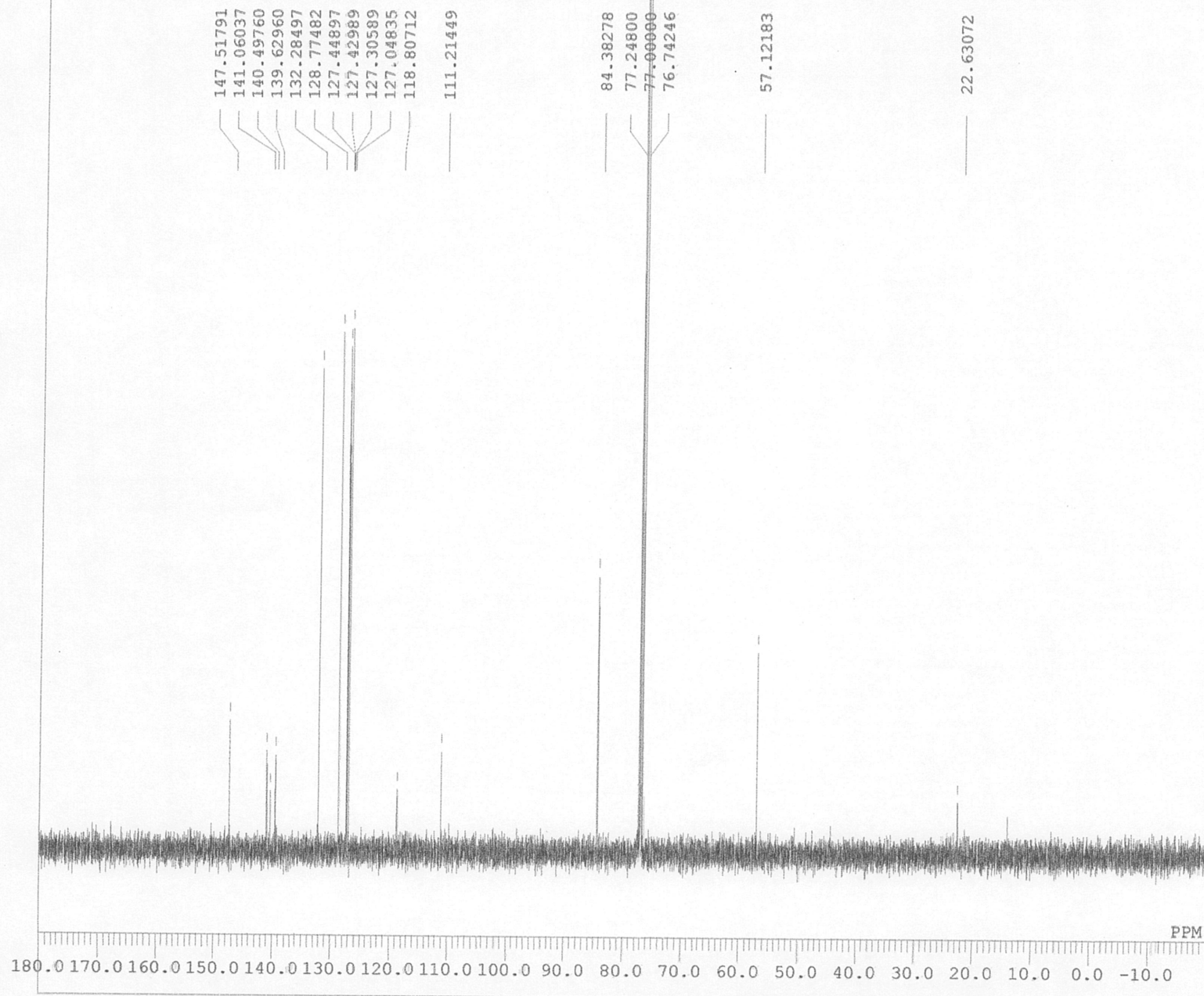




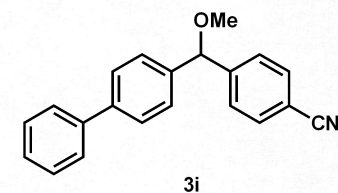
DFILE tanaka06142-11-1-1.jdf
 COMNT
 DATIM 2017-11-21 21:23:38
 OBNUC 1H
 EXMOD proton.jxp
 OBFRQ 500.16 MHz
 OBSET 2.41 KHz
 OBFIN 6.01 Hz
 POINT 16384
 FREQU 9384.38 Hz
 SCANS 16
 ACQTM 1.7459 sec
 PD 5.0000 sec
 PW1 5.55 usec
 IRNUC 1H
 CTEMP 21.9 c
 SLVNT CDCL3
 EXREF 7.26 ppm
 BF 1.50 Hz
 RGAIN 34

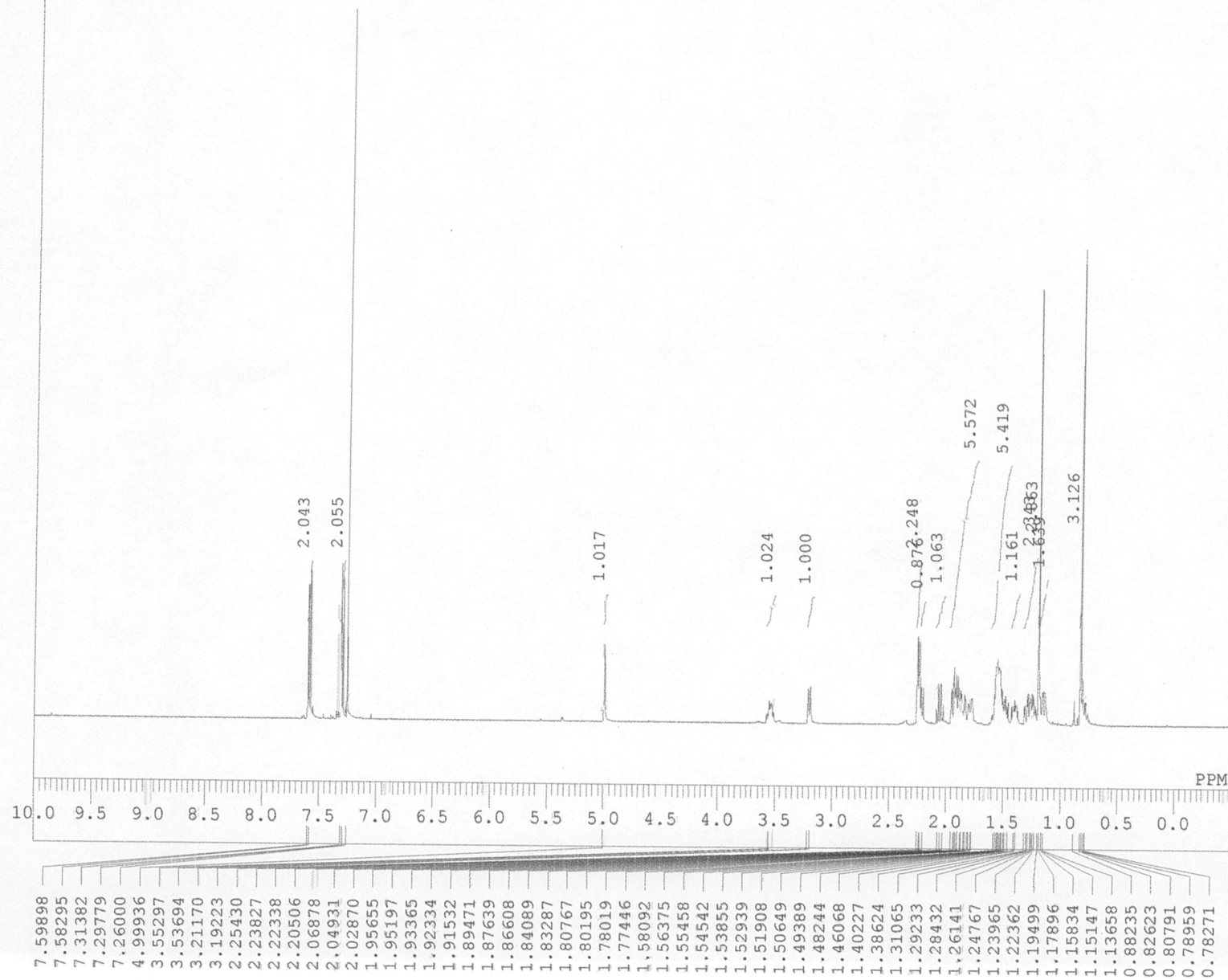


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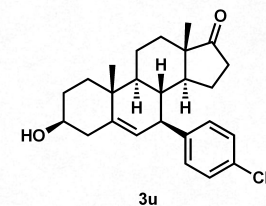


DFILE tanaka06142-13C-1-1.als
COMNT
DATIM 2017-11-11 15:14:10
OBNUC 13C
EXMOD carbon.jxp
OBFRQ 125.77 MHz
OBSET 7.87 KHz
OBFIN 4.21 Hz
POINT 26214
FREQU 31446.54 Hz
SCANS 130
ACQTM 0.8336 sec
PD 2.0000 sec
PW1 3.40 usec
IRNUC 1H
CTEMP 21.5 c
SLVNT CDCL3
EXREF 77.00 ppm
BF 0.12 Hz
RGAIN 60

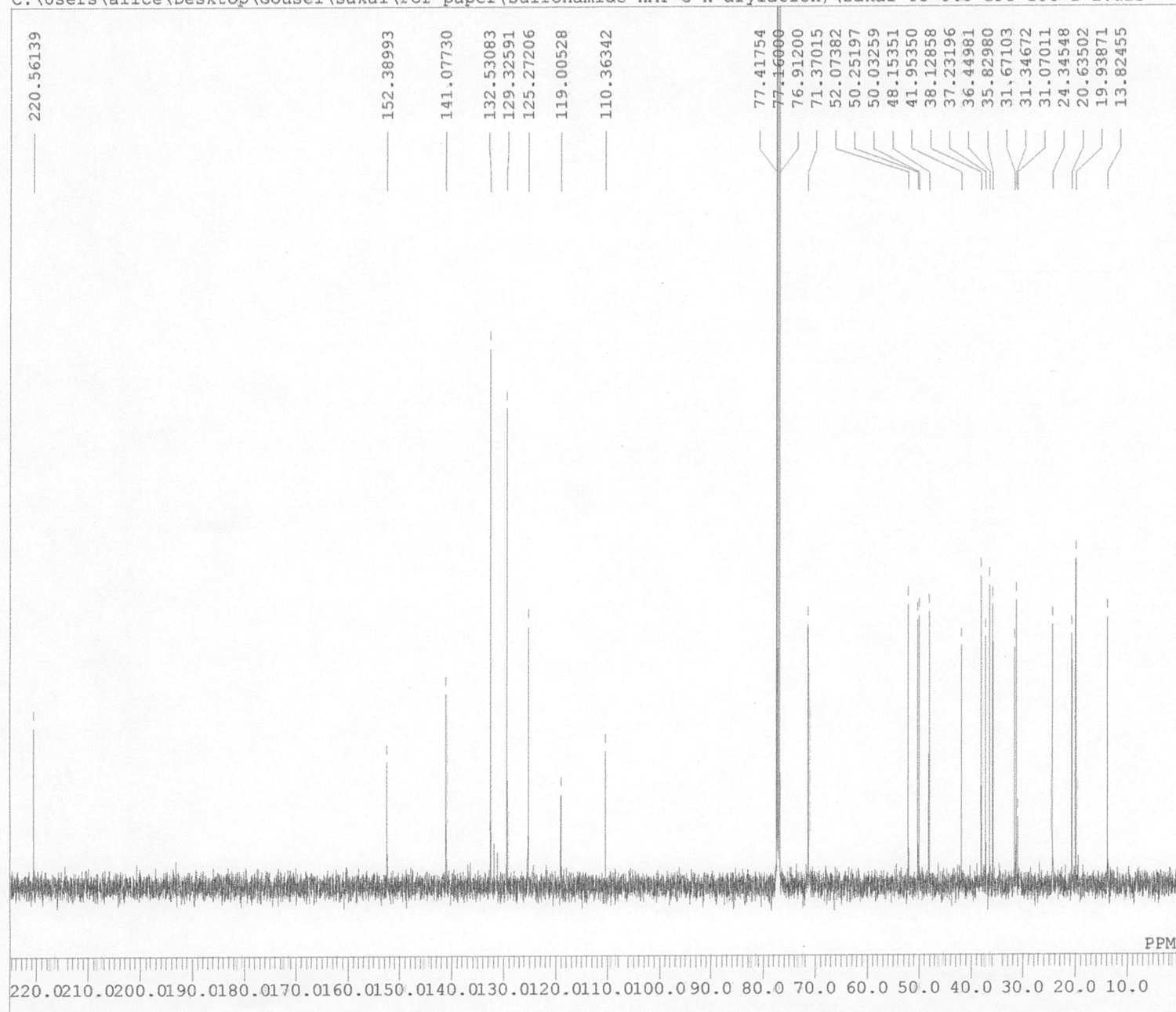




DFILE sakai 03-045 GPC-1-1.als
 COMNT
 DATIM 2017-11-22 15:56:41
 OBNUC 1H
 EXMOD proton.jxp
 OBFRQ 500.16 MHz
 OBSET 2.41 KHz
 OBFIN 6.01 Hz
 POINT 13107
 FREQU 7507.51 Hz
 SCANS 8
 ACQTM 1.7459 sec
 PD 5.0000 sec
 PW1 5.55 usec
 IRNUC 1H
 CTEMP 21.5 c
 SLVNT CDCL3
 EXREF 7.26 ppm
 BF 0.12 Hz
 RGAIN 32



C:\Users\alice\Desktop\Gousei\sakai\For paper(sulfonamide HAT C-H arylation)\sakai 03-045 GPC 13C-1-2.als



DFILE sakai 03-045 GPC 13C-1-2.als
 COMNT
 DATIM 2017-11-22 17:16:25
 OBNUC 13C
 EXMOD carbon.jxp
 OBFRQ 125.77 MHz
 OBSET 7.87 KHz
 OBFIN 4.21 Hz
 POINT 26214
 FREQU 31446.54 Hz
 SCANS 256
 ACQTM 0.8336 sec
 PD 2.0000 sec
 PW1 3.40 usec
 IRNUC 1H
 CTEMP 22.3 c
 SLVNT CDCL3
 EXREF 77.16 ppm
 BF 1.42 Hz
 RGAIN 60

