

Supplementary Information

**Design, Synthesis, and Characterization of Prototypical Multistate Counters
in Three Distinct Architectures**

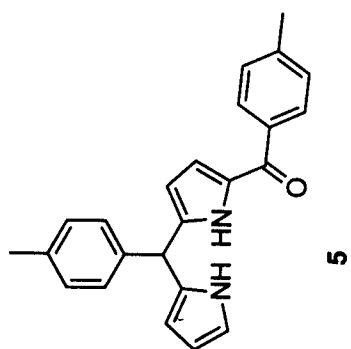
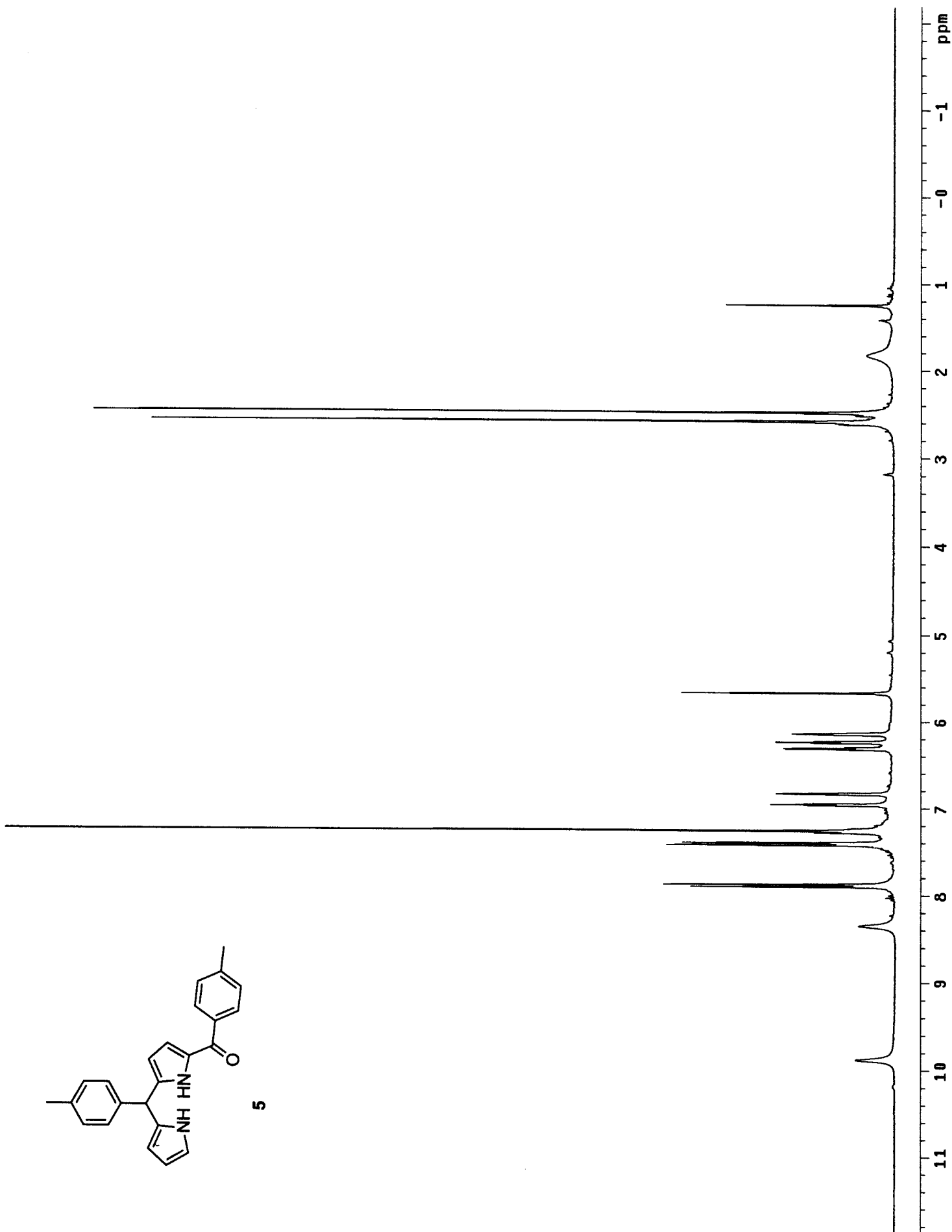
Karl-Heinz Schweikart,^a Vladimir L. Malinovskii,^a James R. Diers,^b Amir A. Yasseri,^b

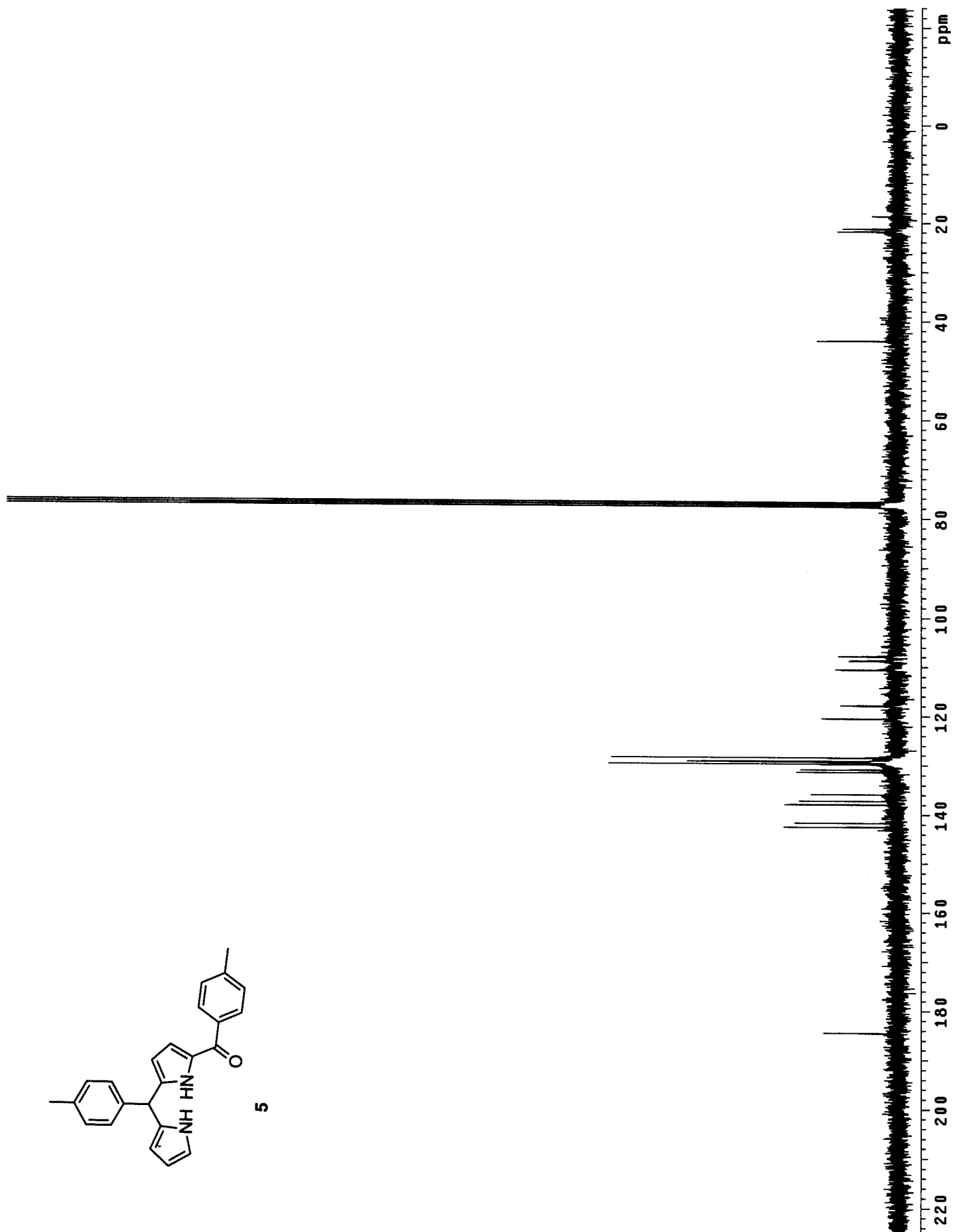
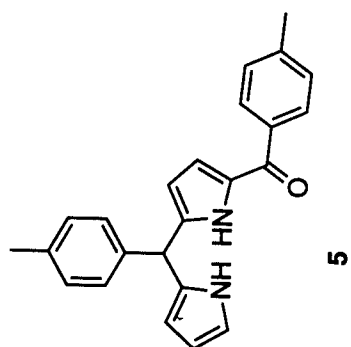
David F. Bocian,^{*b} Werner G. Kuhr,^{*b} and Jonathan S. Lindsey^{*a}

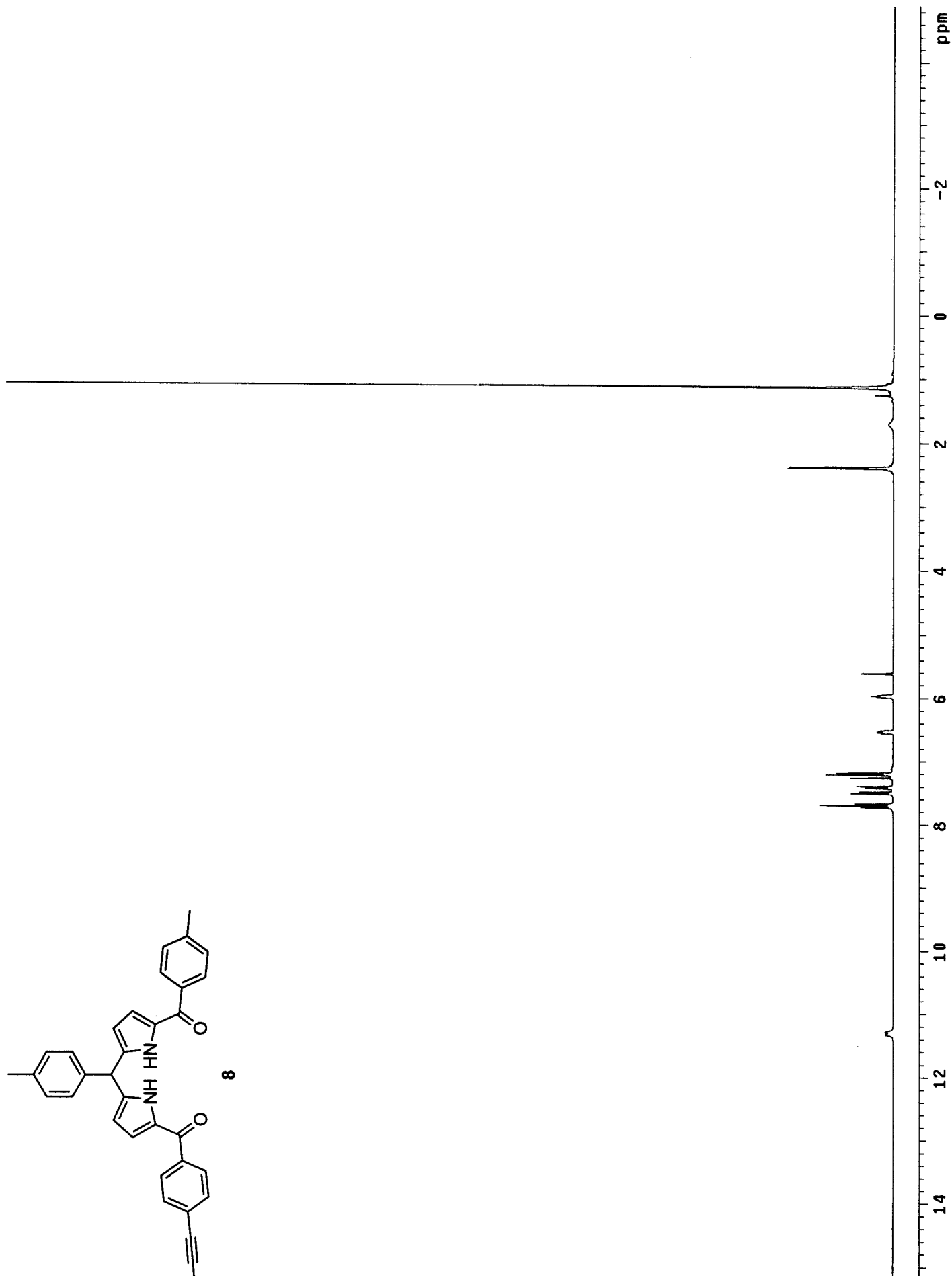
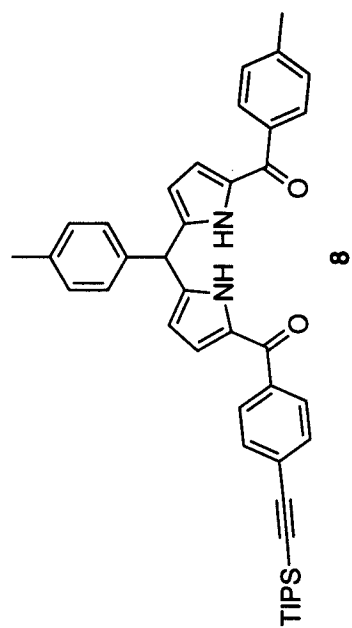
^aDepartment of Chemistry, North Carolina State University, Raleigh, North Carolina

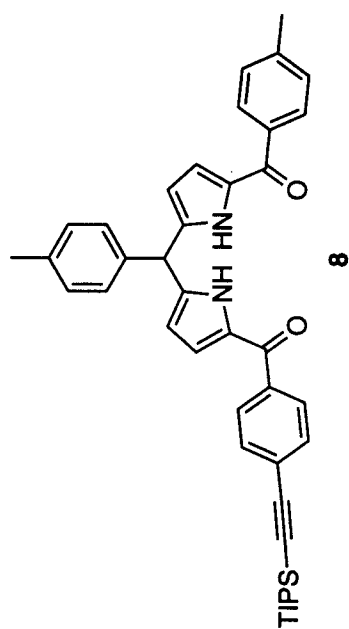
27695-8204, USA

^bDepartment of Chemistry, University of California, Riverside, California 92521-0403, USA

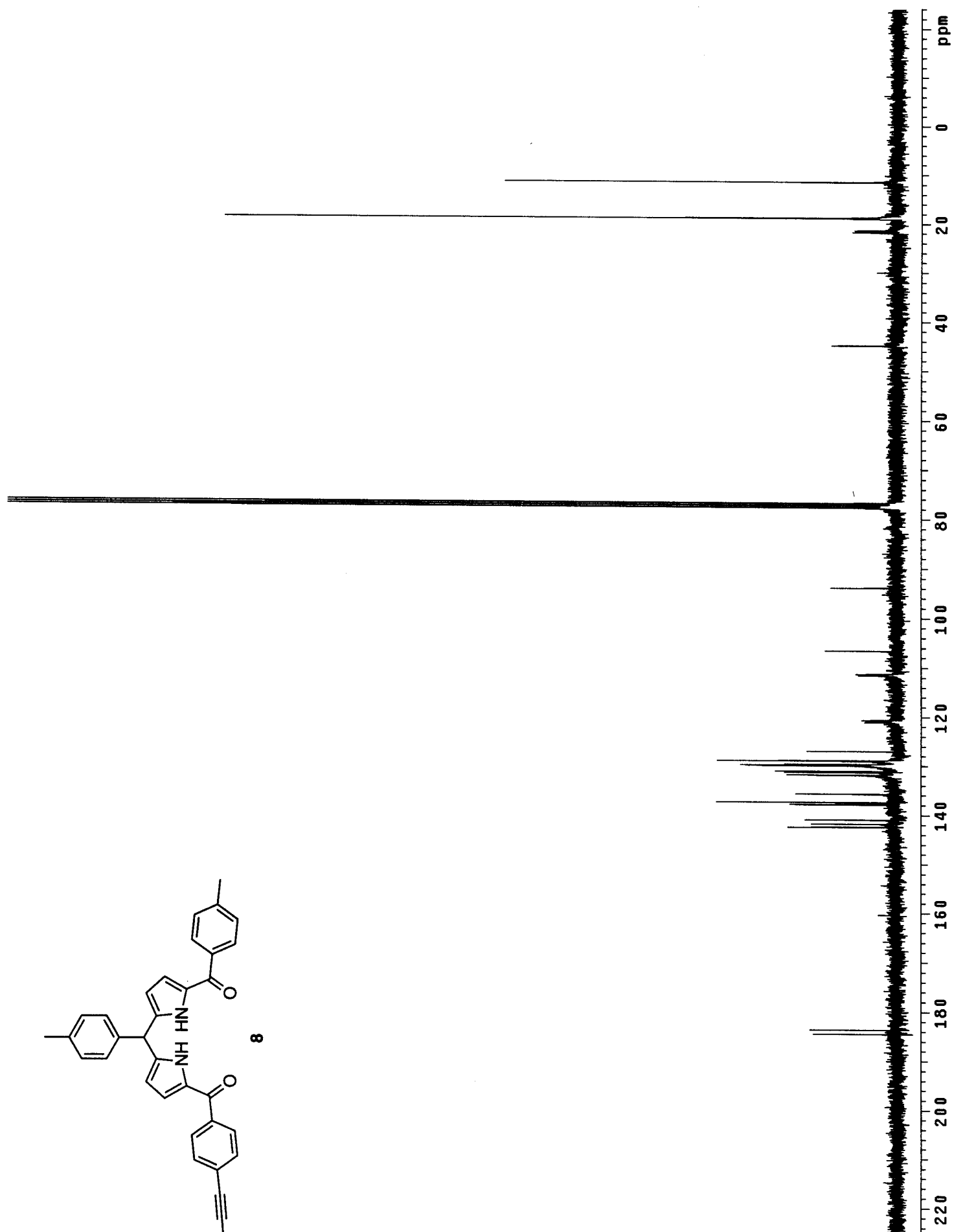


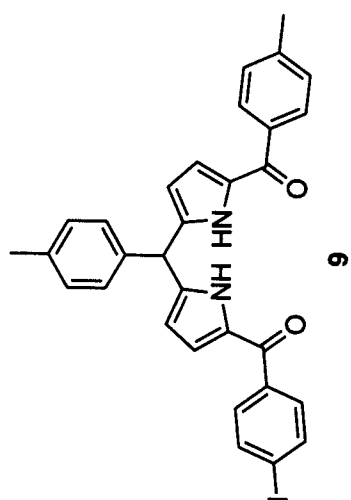




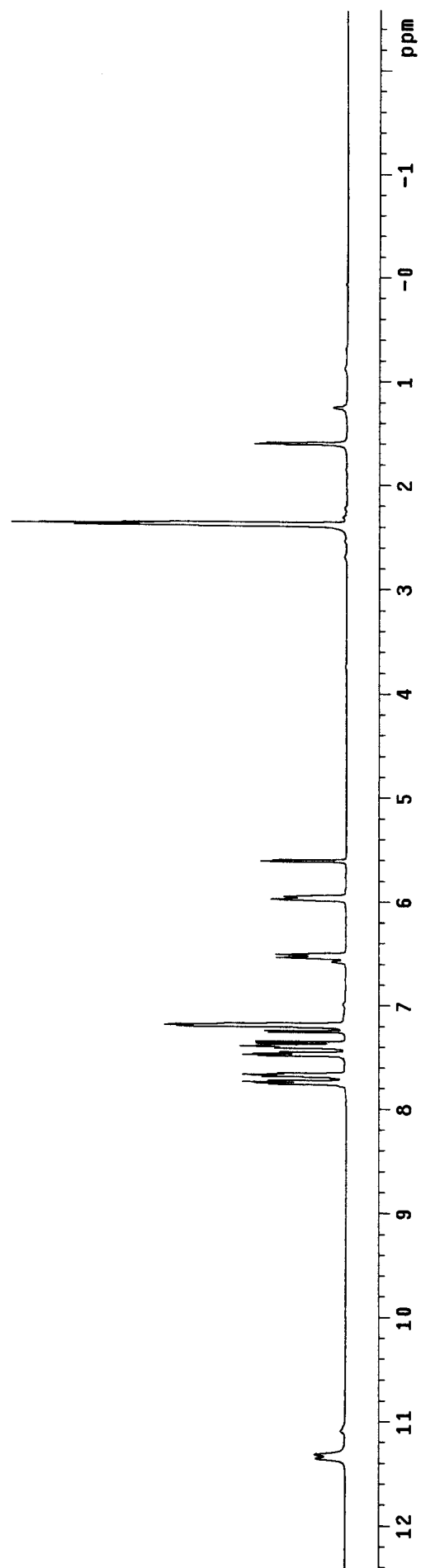


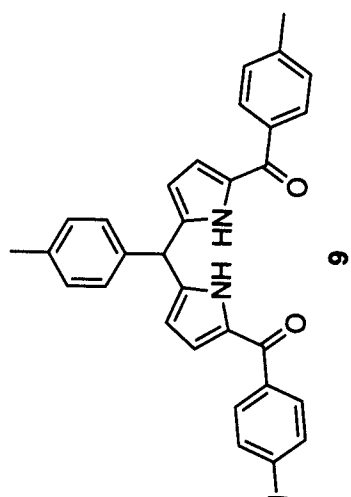
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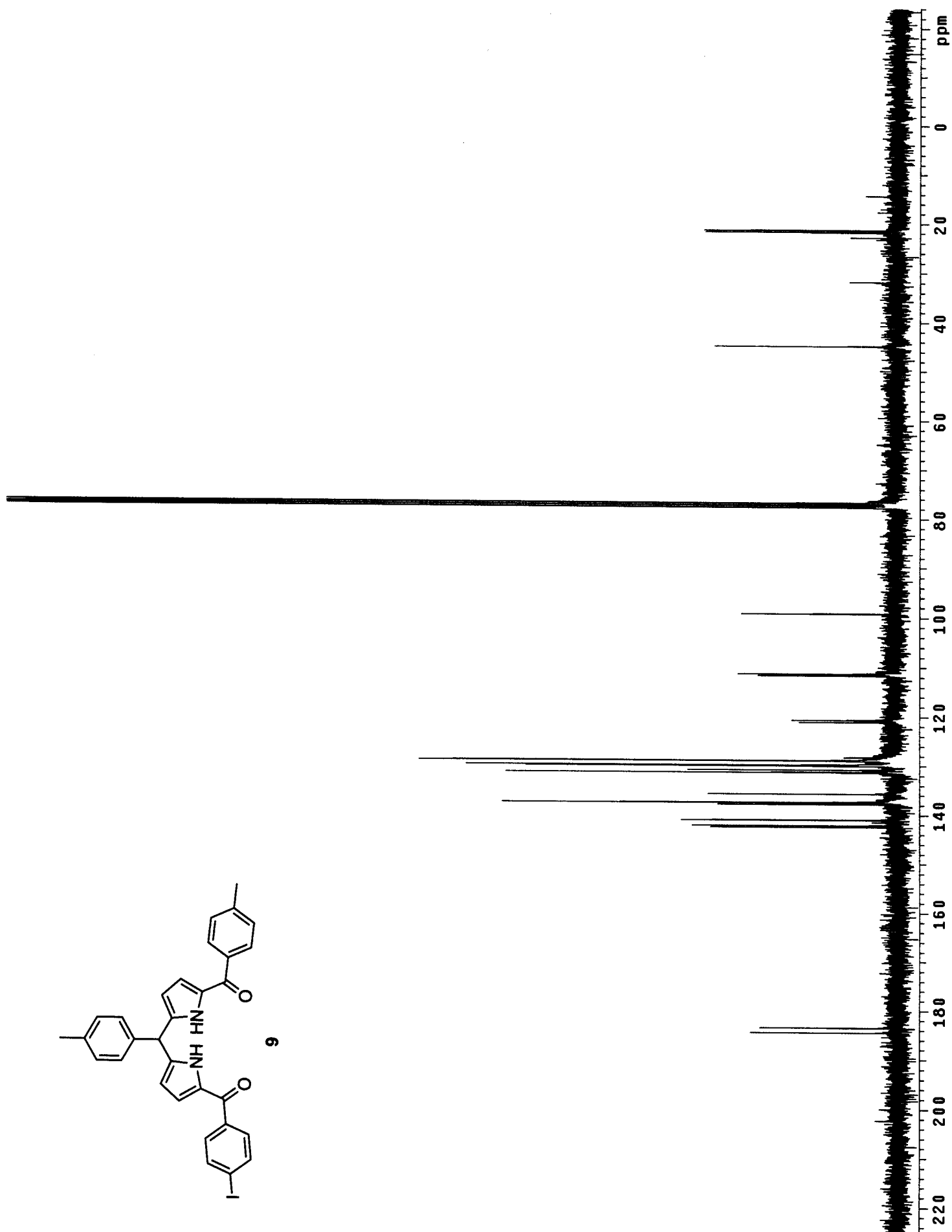


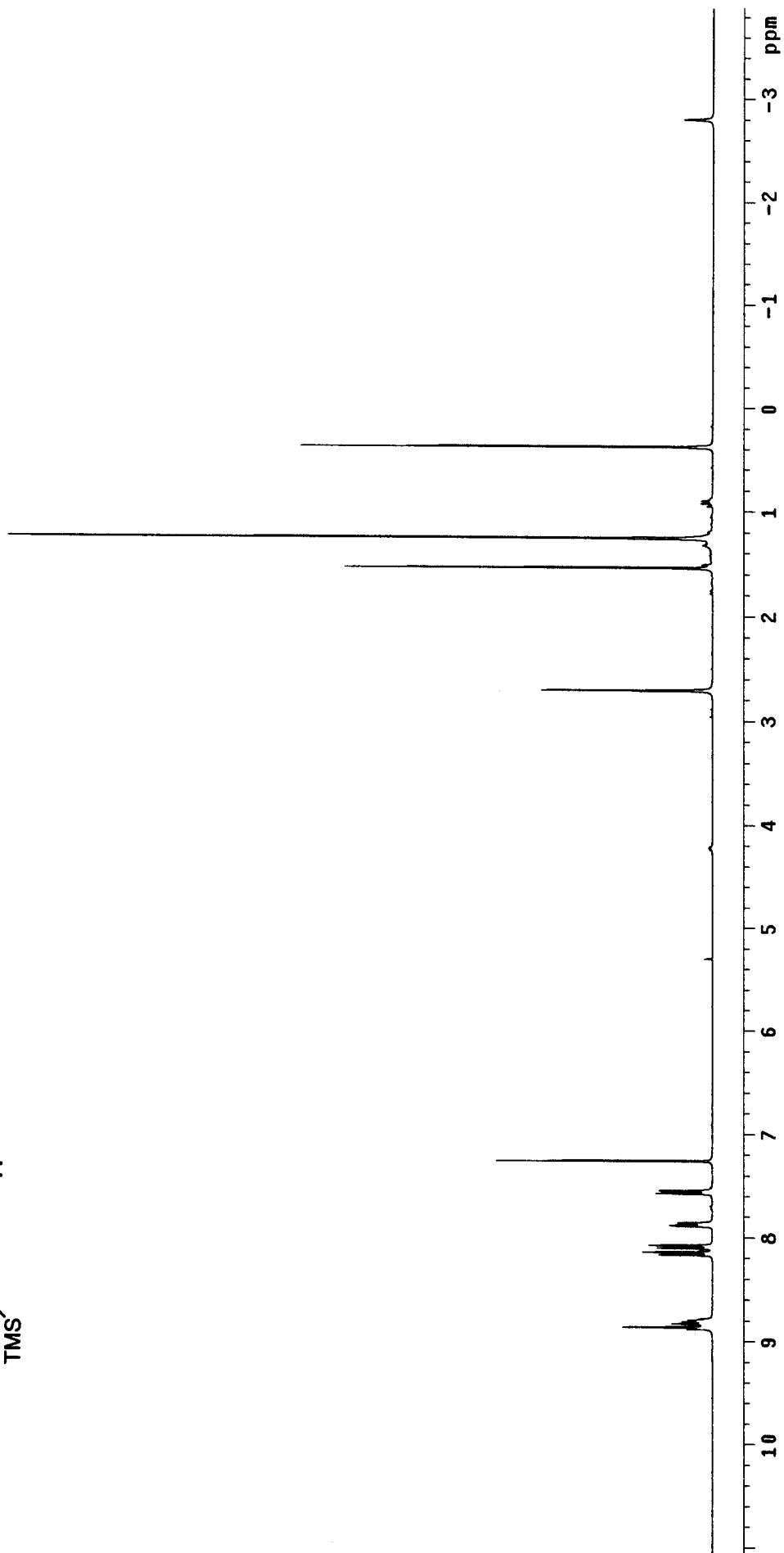
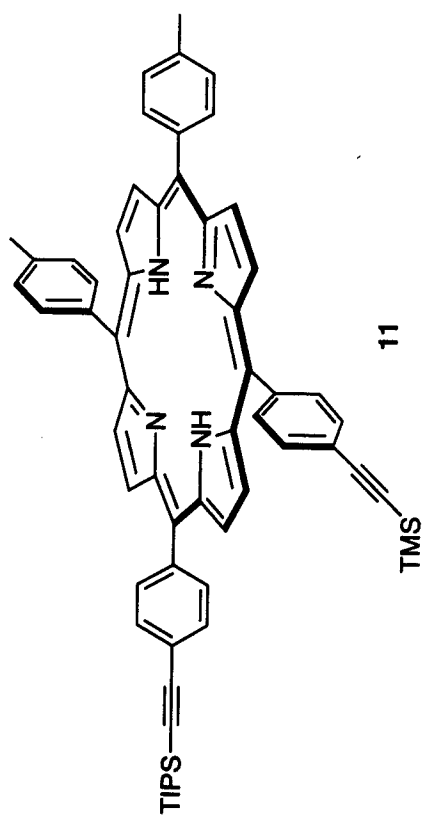
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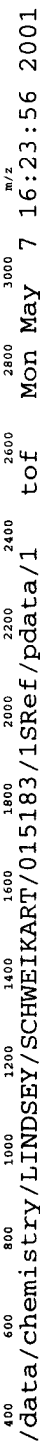




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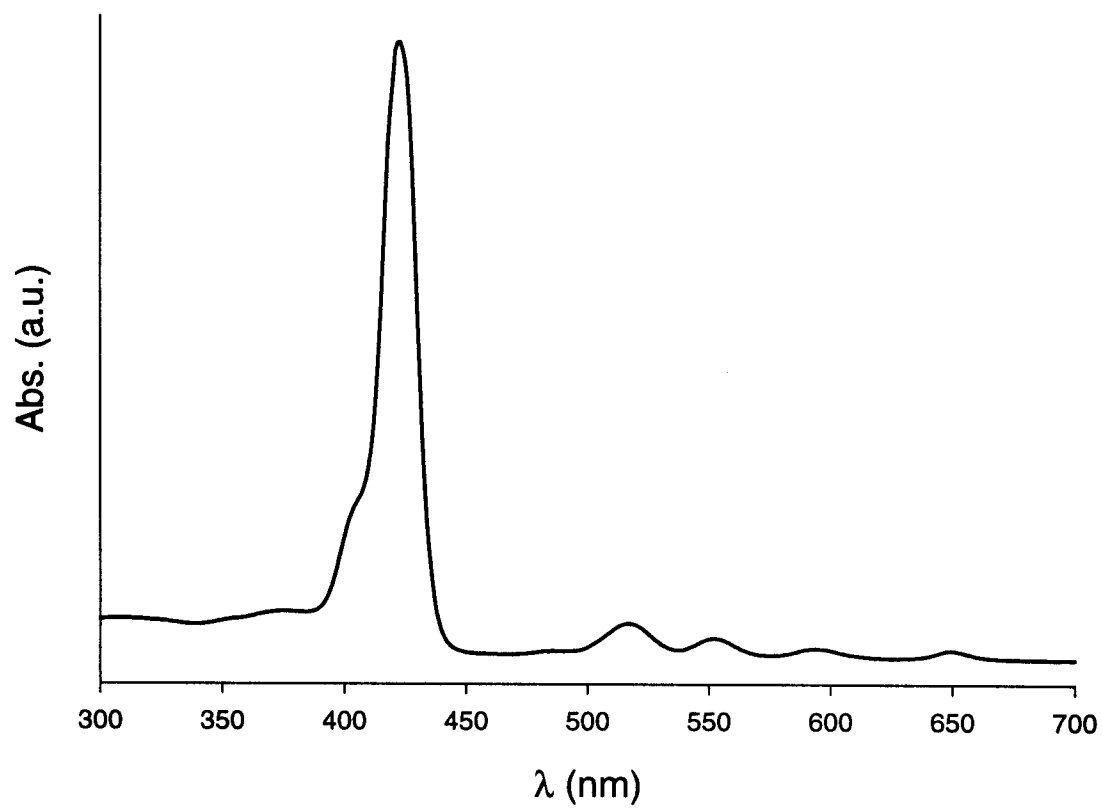
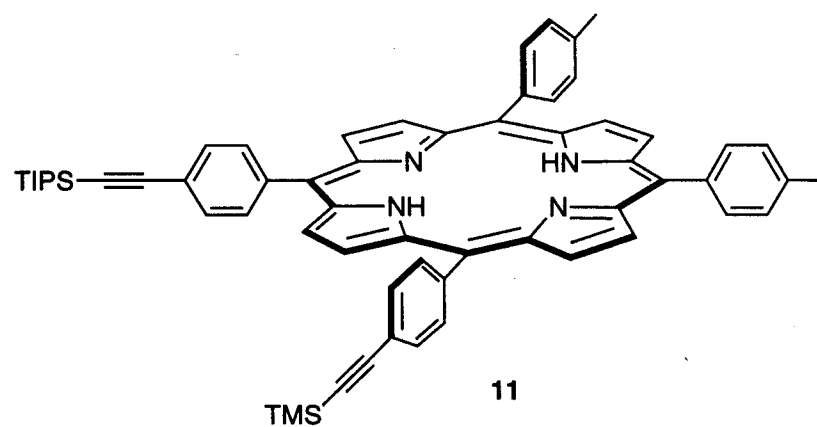


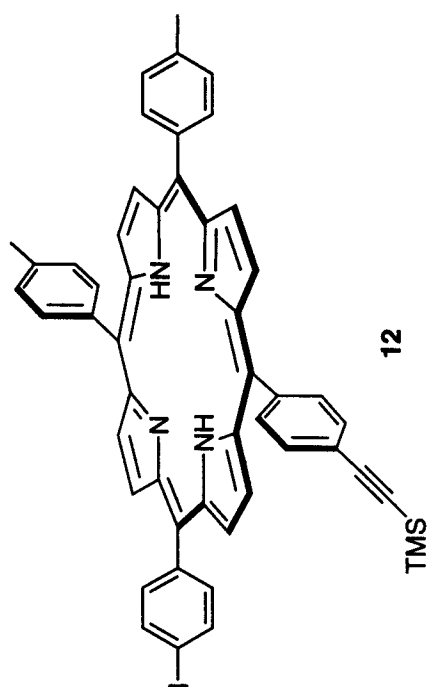




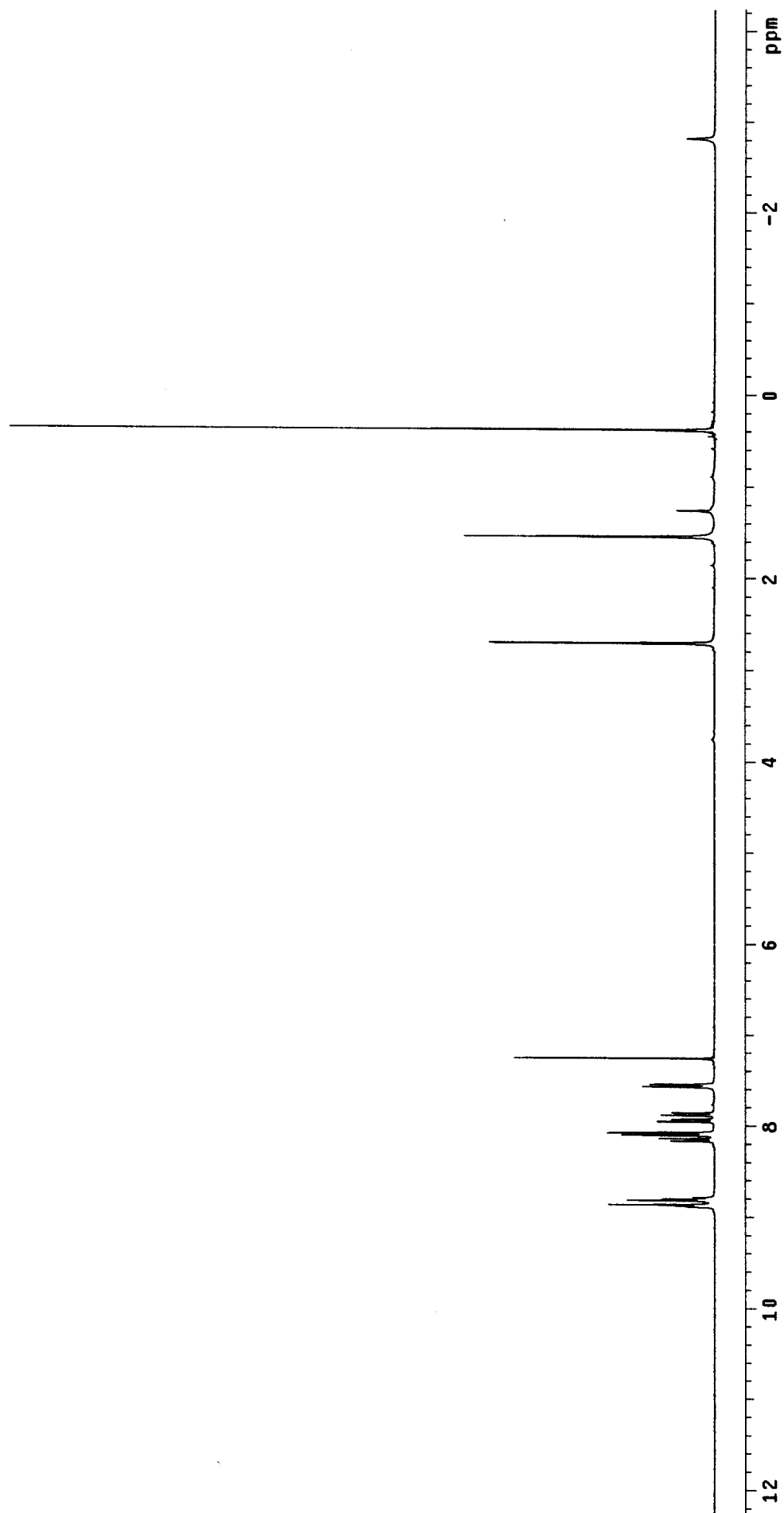
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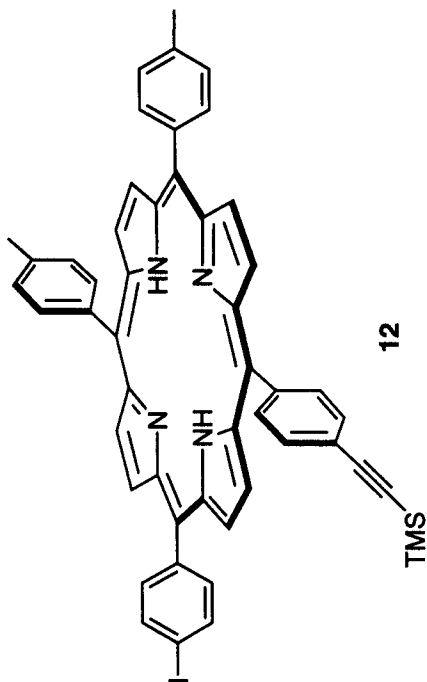
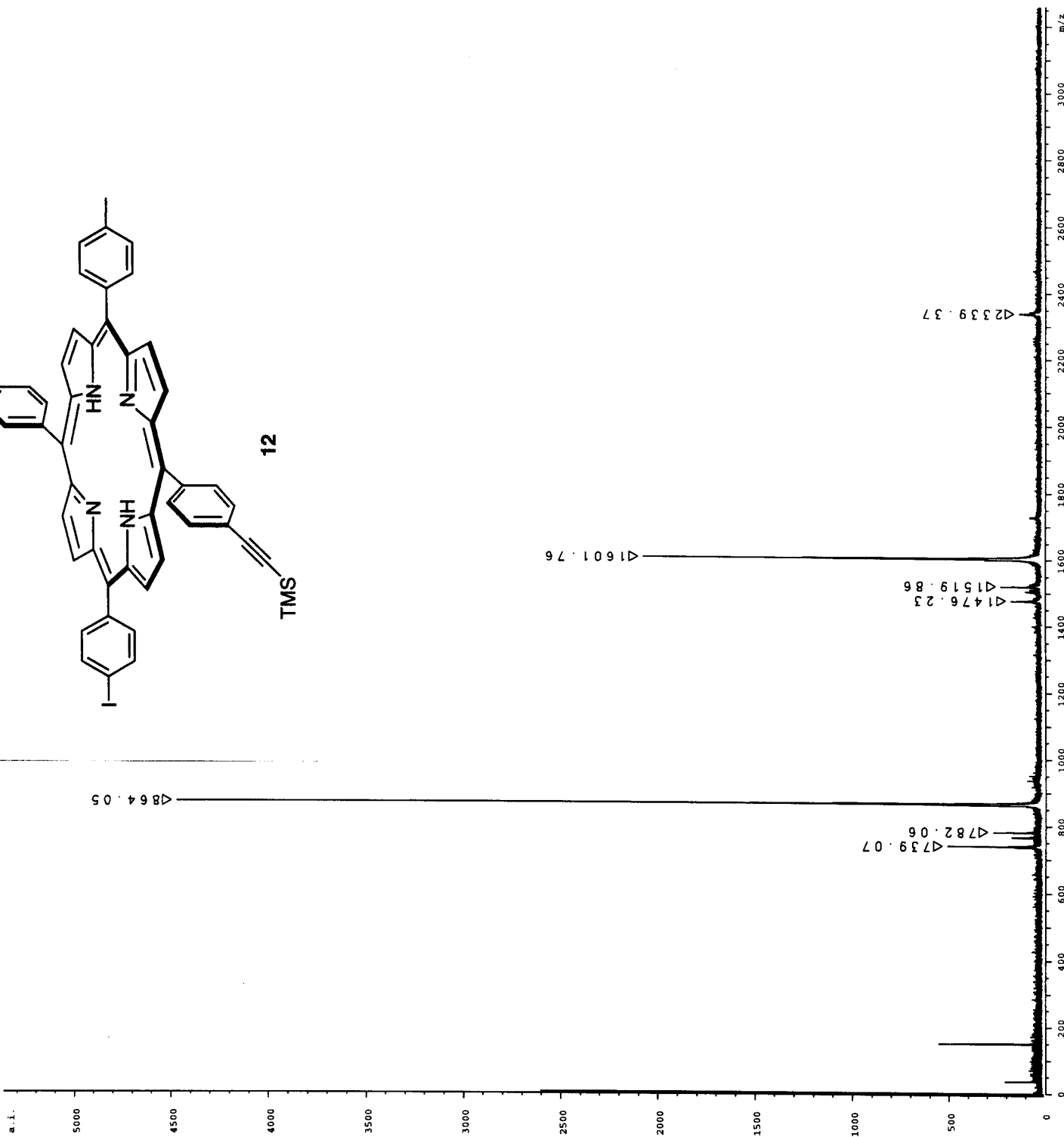
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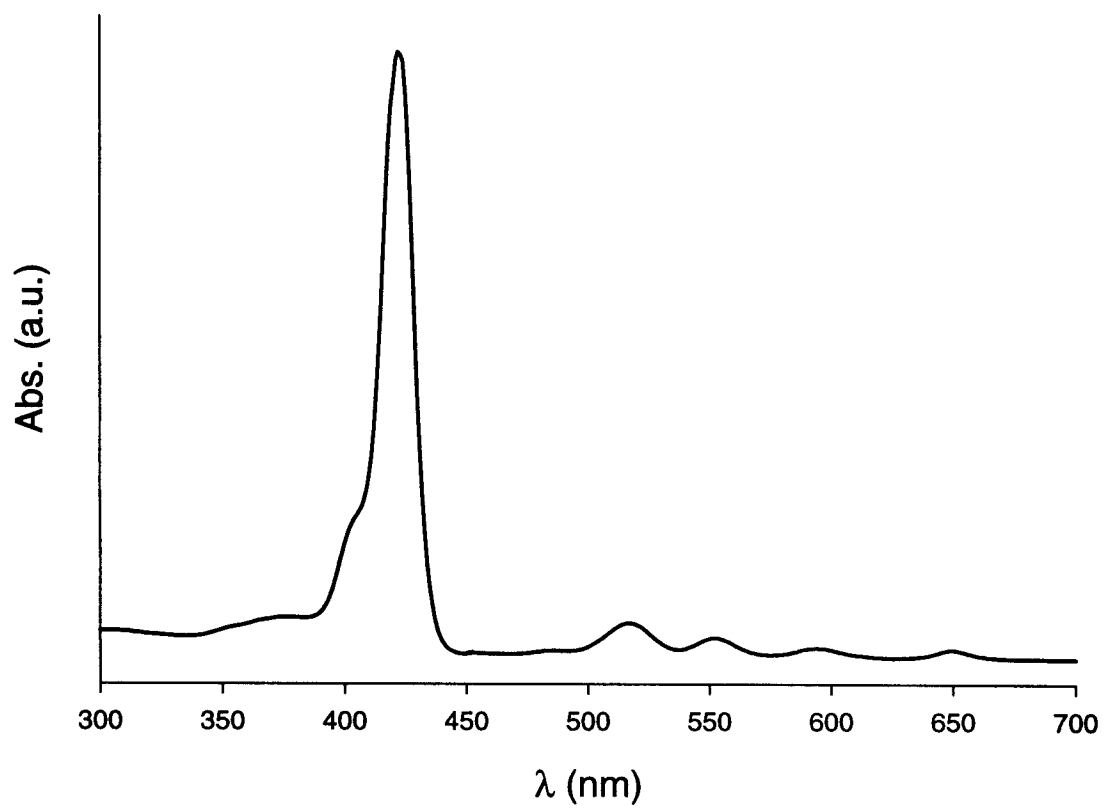
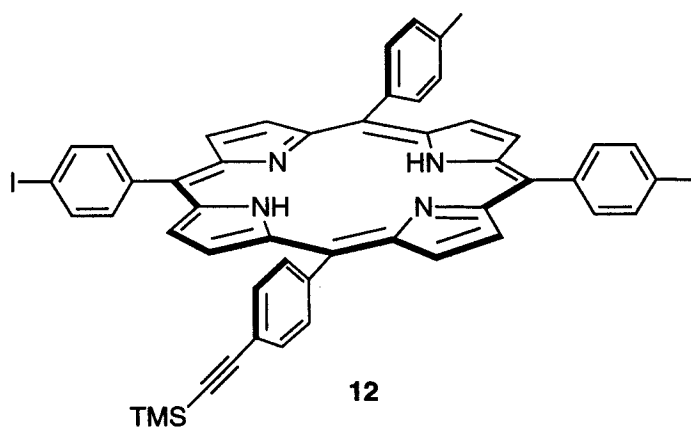


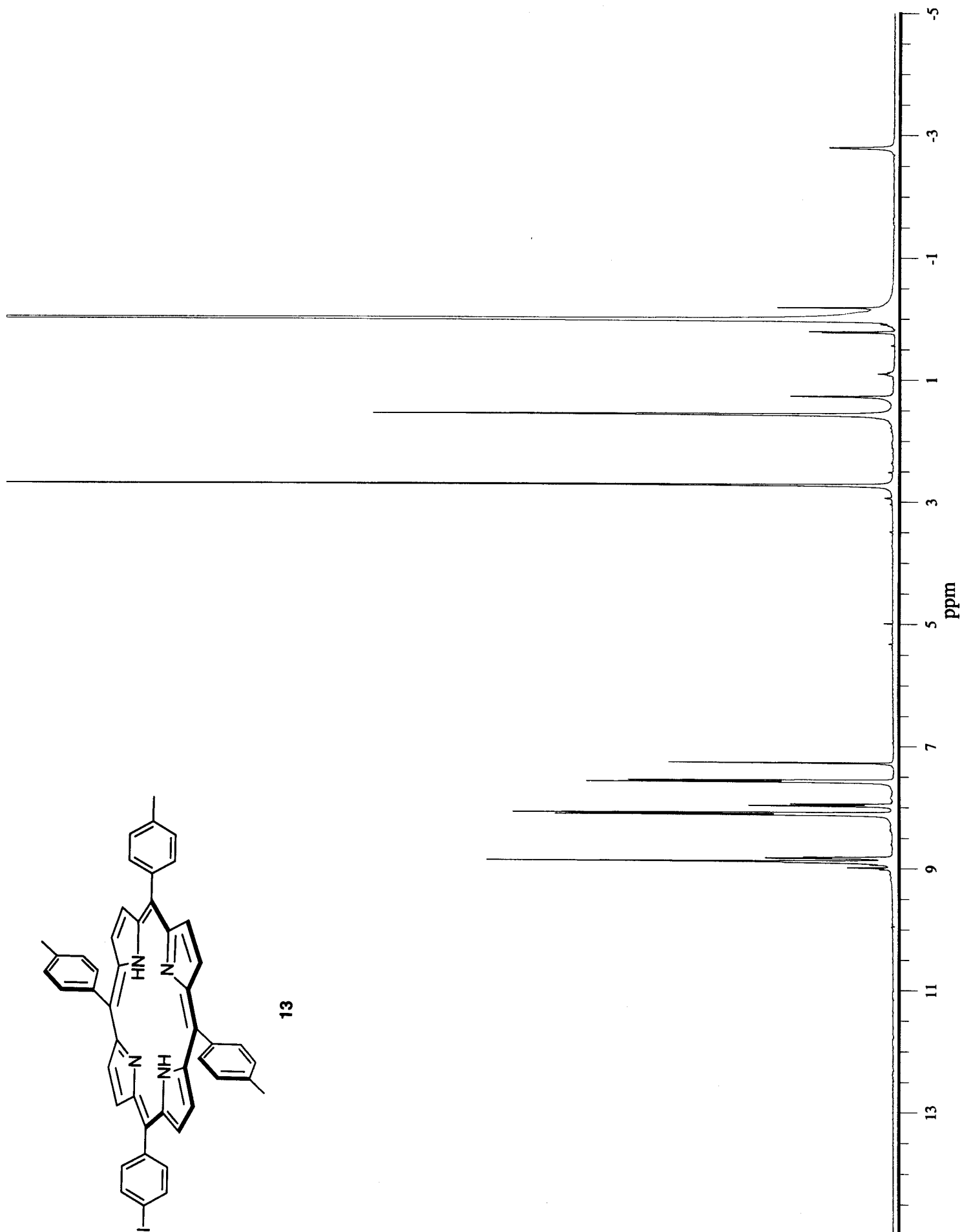
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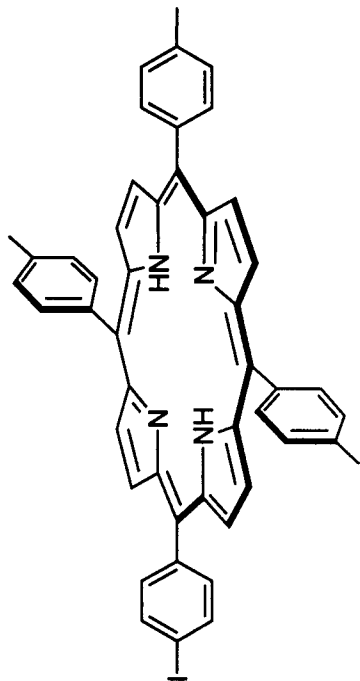




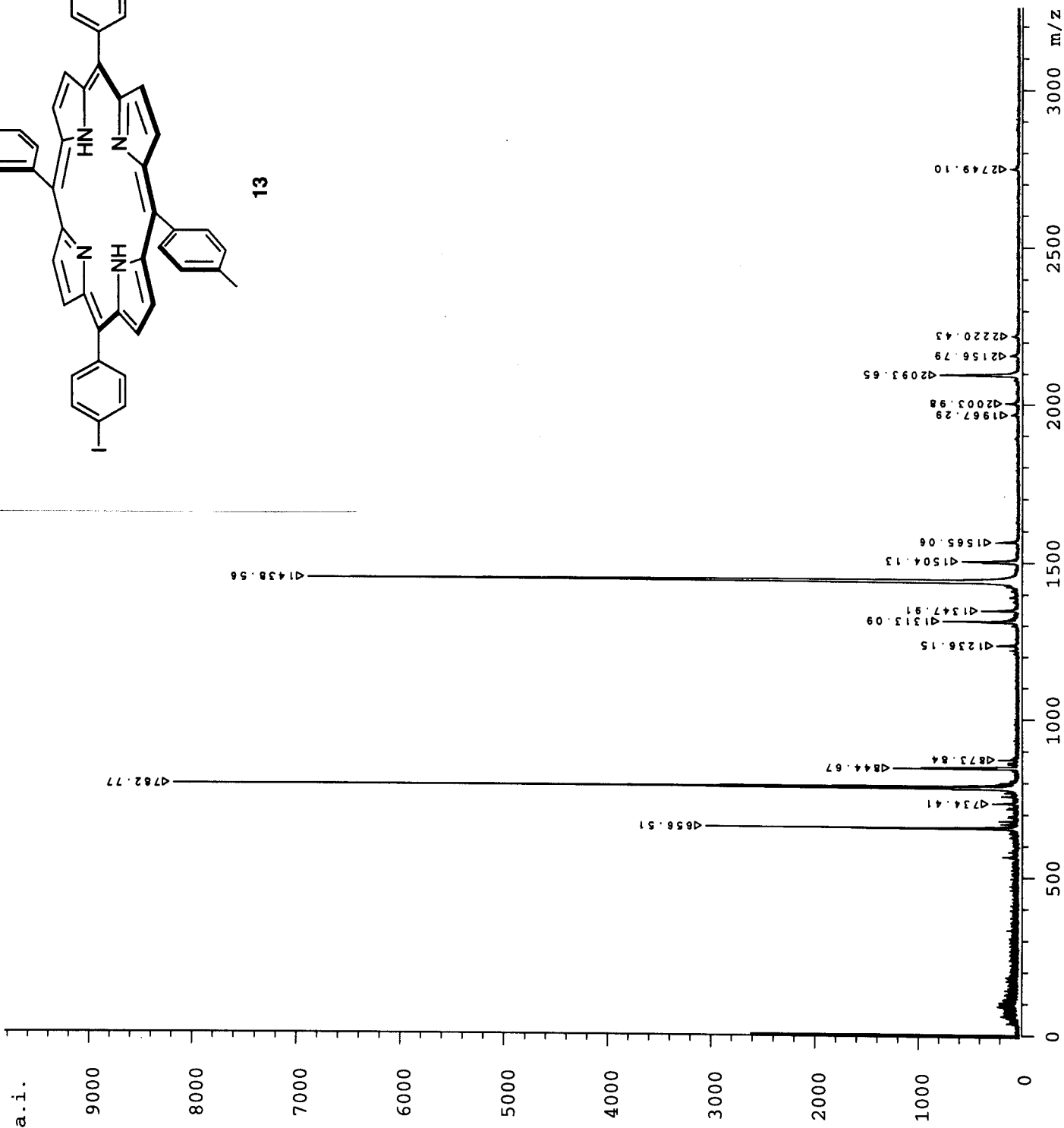
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POS	
REFLECTOR	
TOP_MJ	40000
Reflector	
NSHOTS	100
SNONUMS	0
SHOTS1	0
SHOTS2	0
SHOTS3	0
DELTA	1.00 [ns]
DELAY	0 [ms]
U1a1	20.00 [KV]
U1a2	18.70 [KV]
U1e1	9.50 [KV]
U1e2	7.50 [KV]
UHFull	10.00 [KV]
RehFull	0.00 [KV]
UIdetL	1.50 [KV]
UIdetR	0.00 [KV]
REPHZ	1.00 [Hz]
ATTEN	1.00 [dB]
M1	32.0
M2	2071749.545
	324.649
	0.000
INTURBO	no
GIDSON	yes
CDEFLN	short
DEFLEA	no
LANSND	no
HUSANO	no
POPKAL	no
DPPASS	510.84
RENDVAL	700.00 [Da]
RENDVAL	0.33
RENDVAL	0.28
RENDVAL	0.00
(tol,tol,TMS,1)-porphy-in	
attn = 32.100 shots	
CMT2	





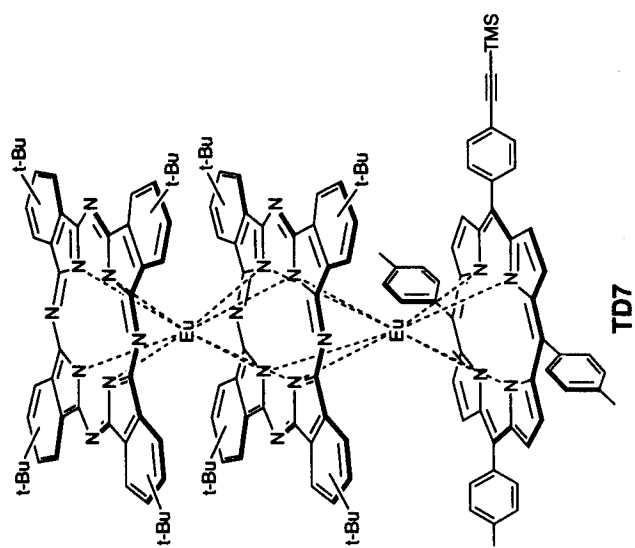


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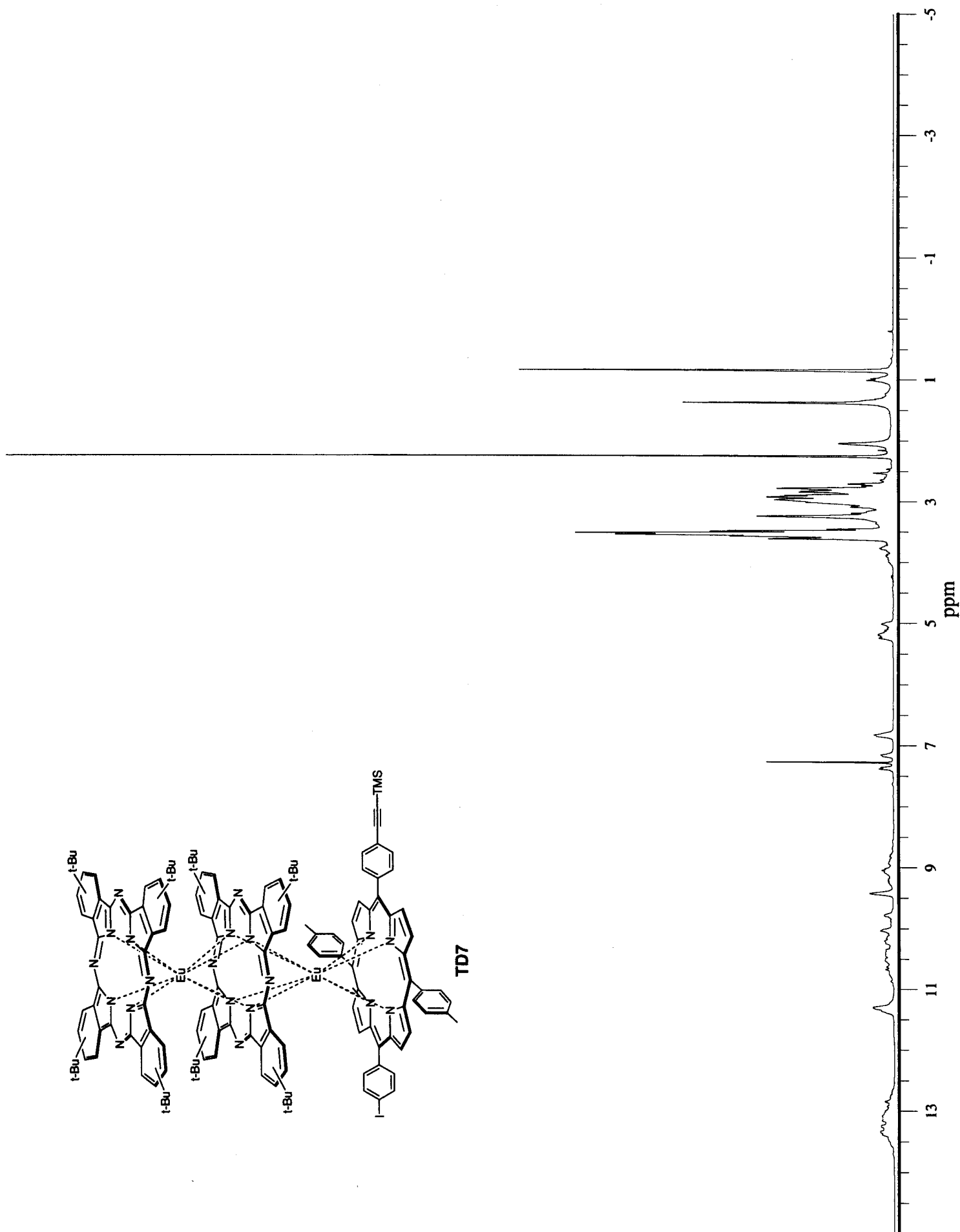


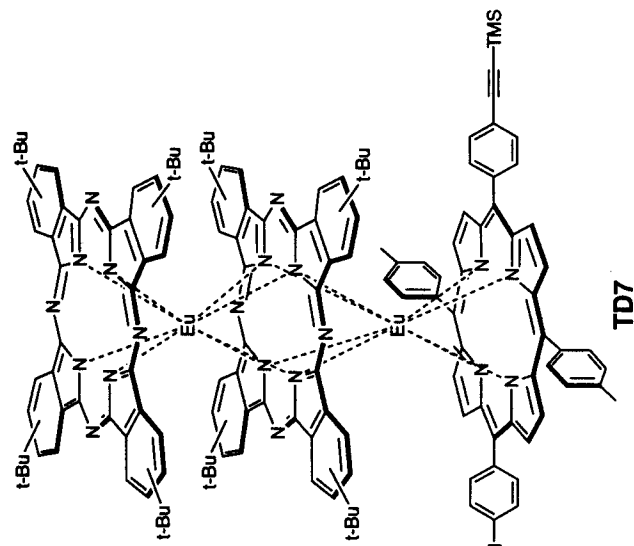
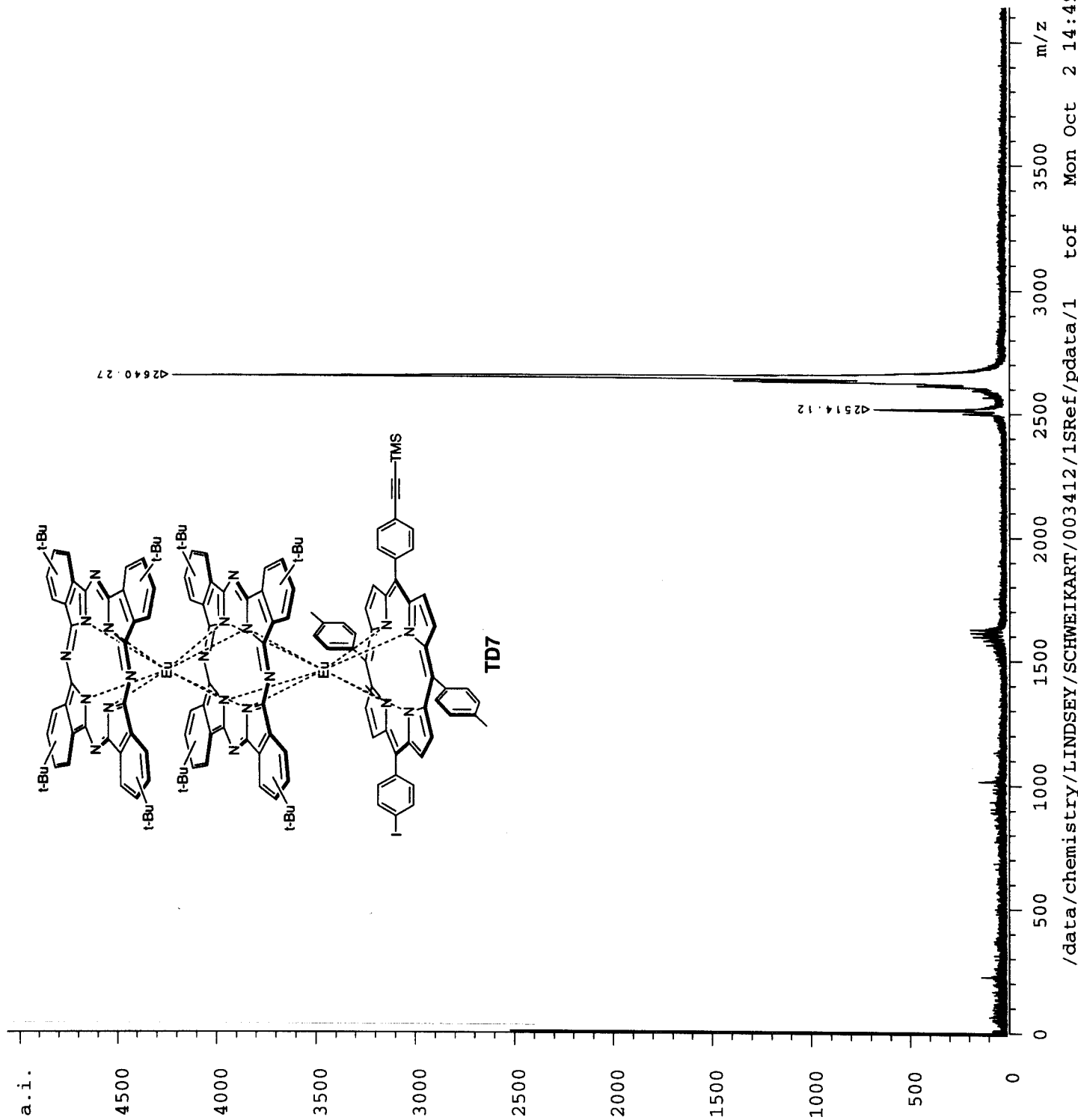
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 SMOPTS2 0
 SMOPTS3 0
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 DELAY 0 [ns]
 Uisl 20.00 [KV]
 Uisl2 18.70 [KV]
 Uisl3 7.50 [KV]
 Uisl4 7.50 [KV]
 Uilmass 10.00 [KV]
 RefFull 0.00 [KV]
 Udel1 1.50 [KV]
 UdelR 0.00 [KV]
 Udel1 2.00 [KV]
 Udel2 1.00 [KV]
 ATTN 32.00 [Hz]
 ML1 2071751.221
 ML2 323.741
 ML3 0.000
 HITURBO no
 GDEON yes
 GDEON short
 GDEON no
 FLASND no
 LENSEND no
 UIS2END no
 DPVAL 510.84 [Da]
 DPVAL 700.00 [Da]
 FENDVAL 0.33
 FENDVAL 0.33
 FENDVAL 0.91
 FENDVAL 0.91
 CMT1 Synthesis 17: pure
 CMT2 attn=32, 100 shots



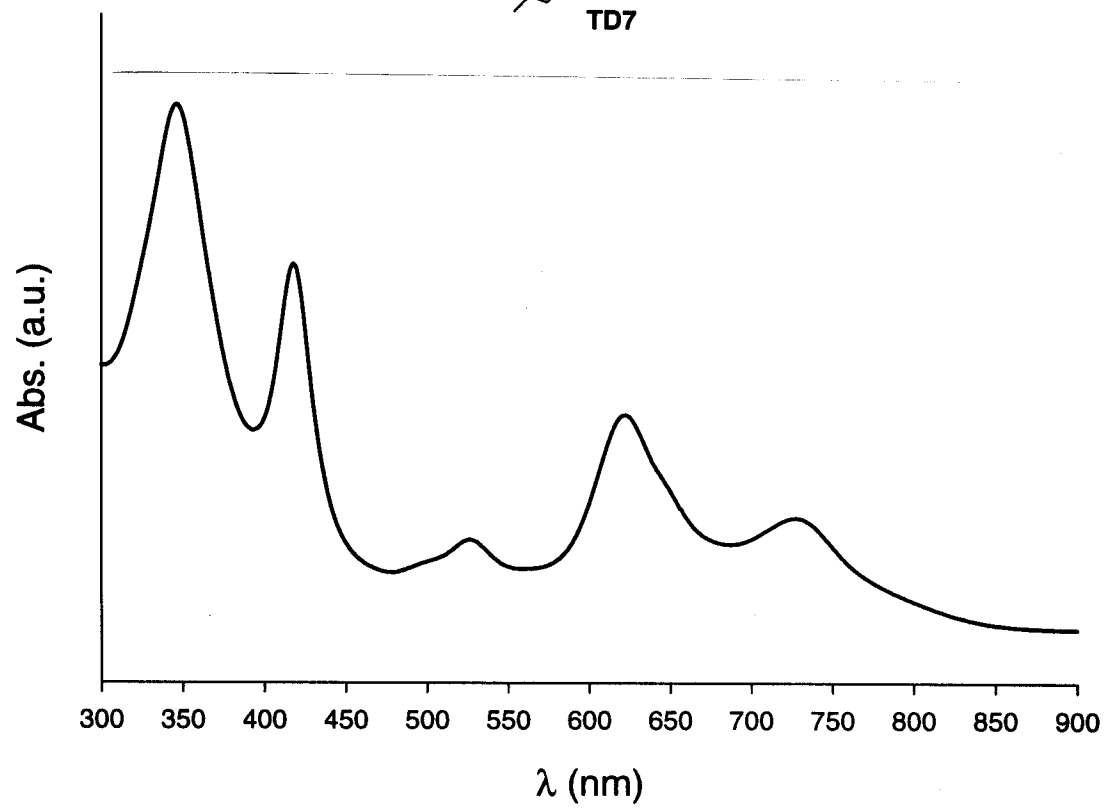
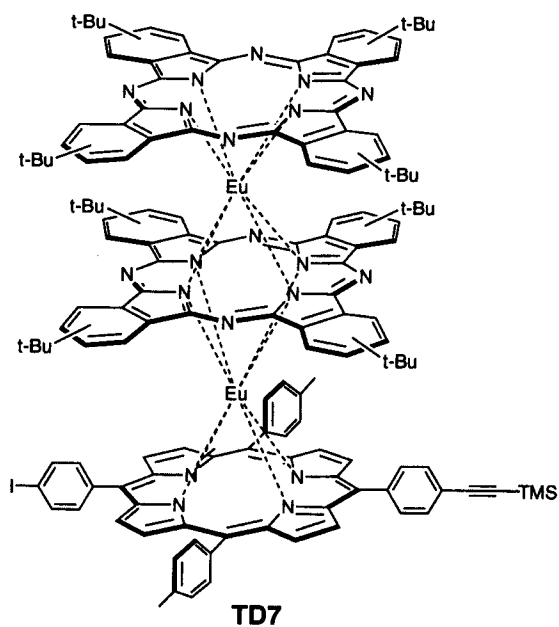


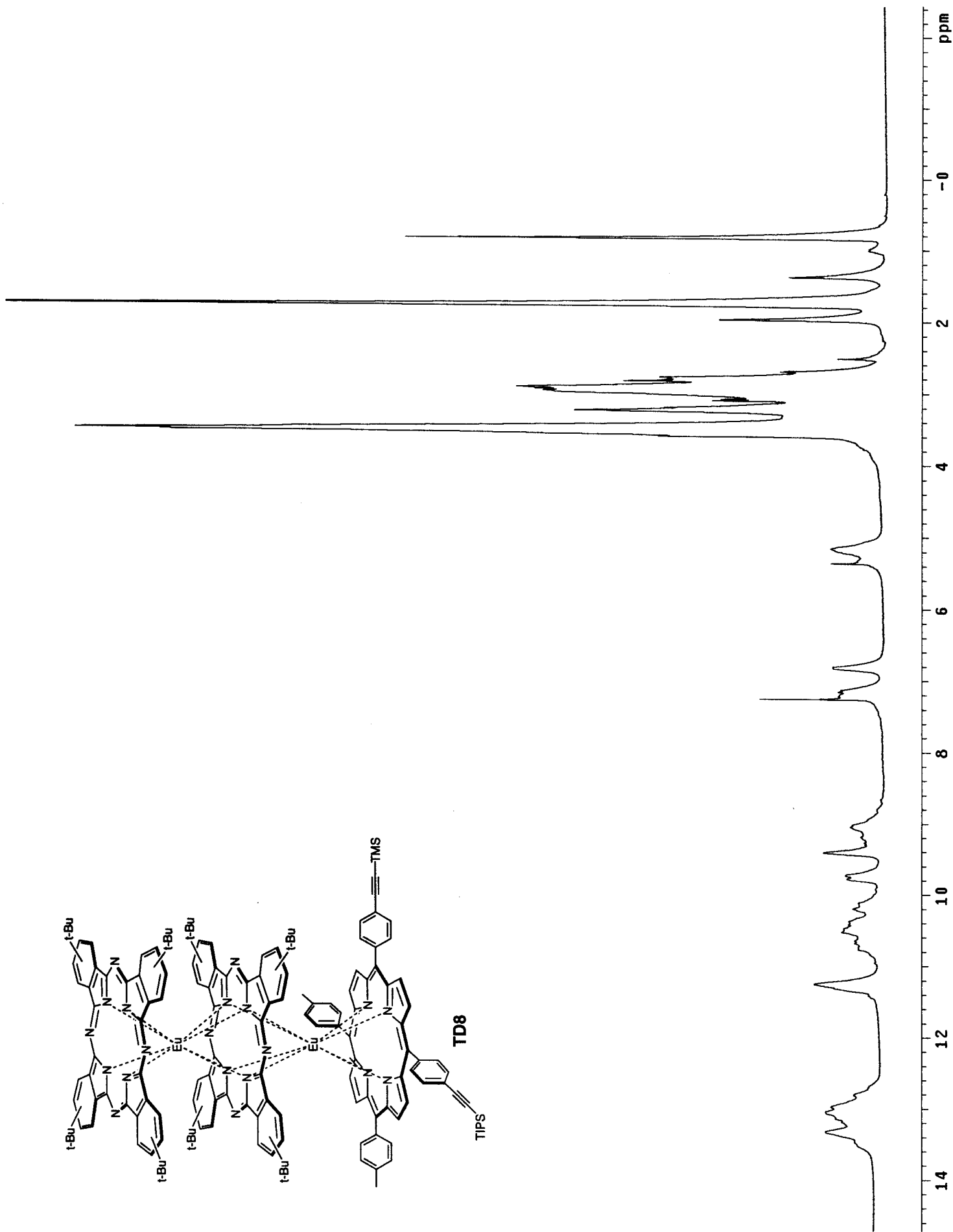
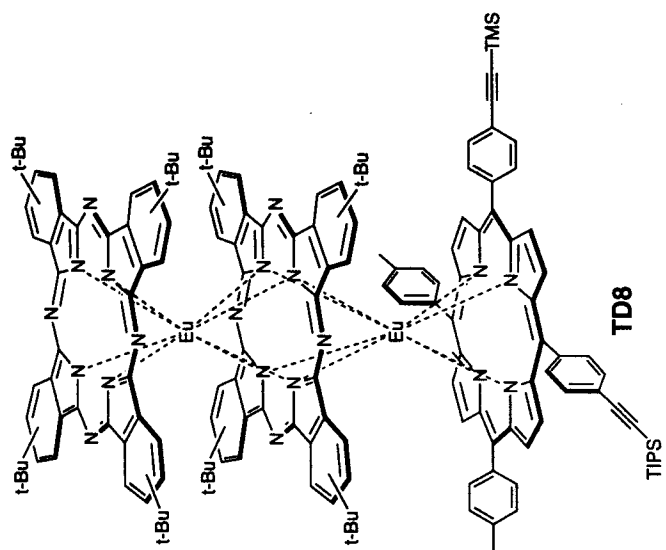
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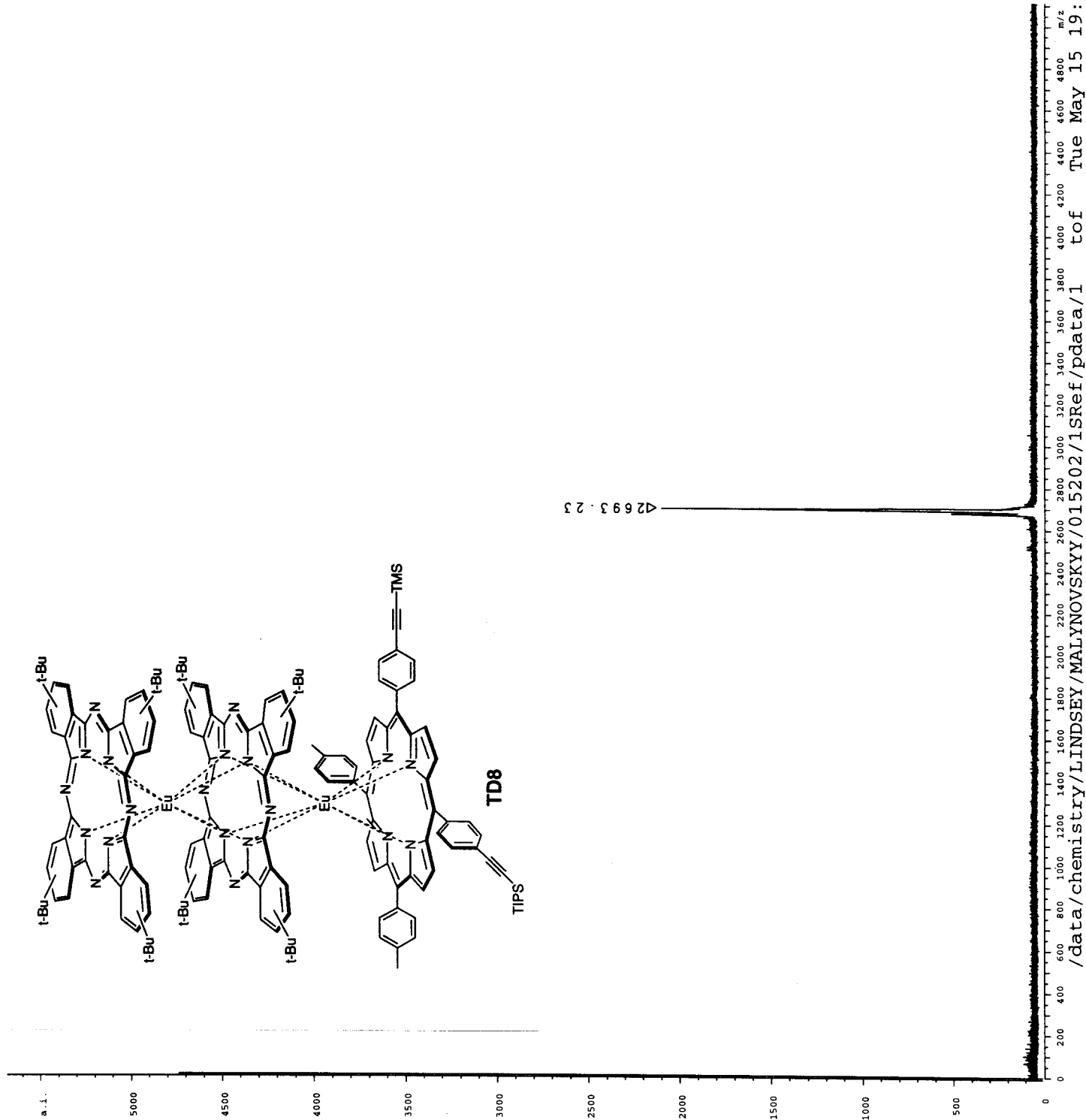
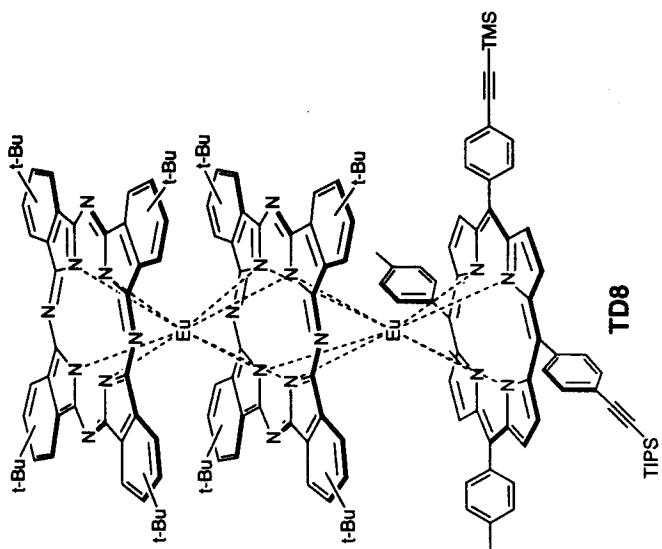




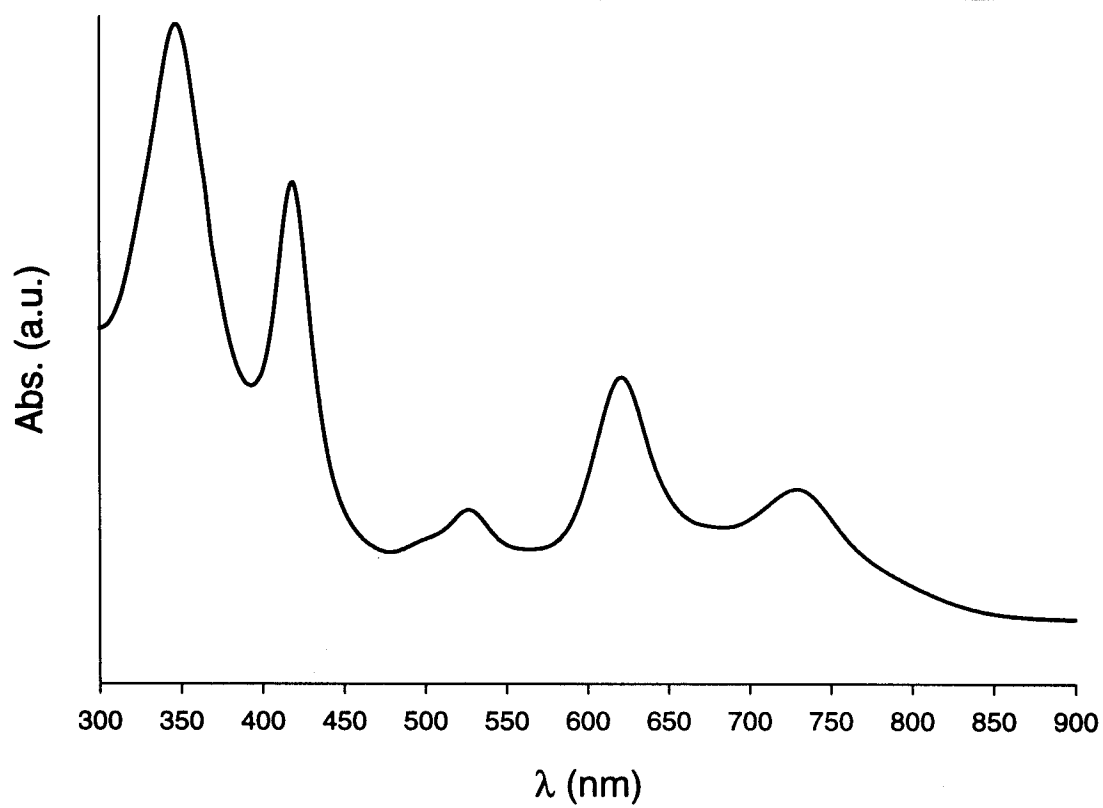
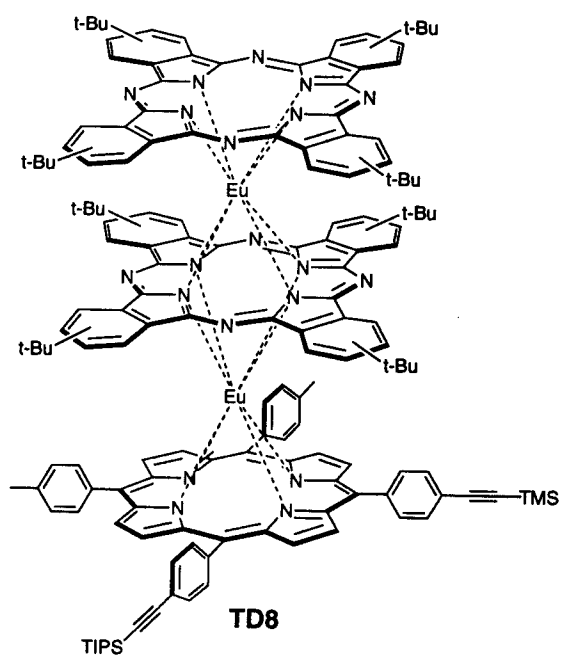
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 ROBERTS 80
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 SNOPTS2 0
 SNOPTS3 0
 DW 1.00 [ns]
 DELAY 0 [ns]
 U1a1 20.00 [KV]
 U1a2 18.50 [KV]
 U1e1 0.00 [KV]
 U1ens 7.50 [KV]
 U1mass 10.00 [KV]
 RefFull 0.00 [KV]
 UdetL 1.55 [KV]
 UdetR 0.00 [KV]
 U1e2 2.00 [KV]
 REPHZ 1.00 [Hz]
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 ML2 333.526
 ML3 0.000
 HITURBO no
 CDSUM yes
 CDELY short
 DEFLON no
 FLANSND no
 LANSND no
 U1S2ND no
 DPCALI 510.84 [Da]
 DPCASS 200.00
 FENDVAL 0.33
 LENDVAL 0.28
 IS2ENDV 0.91
 CMT1 Synthesis 30: pure, cal.
 CMT2 attn = 48. 80 shots

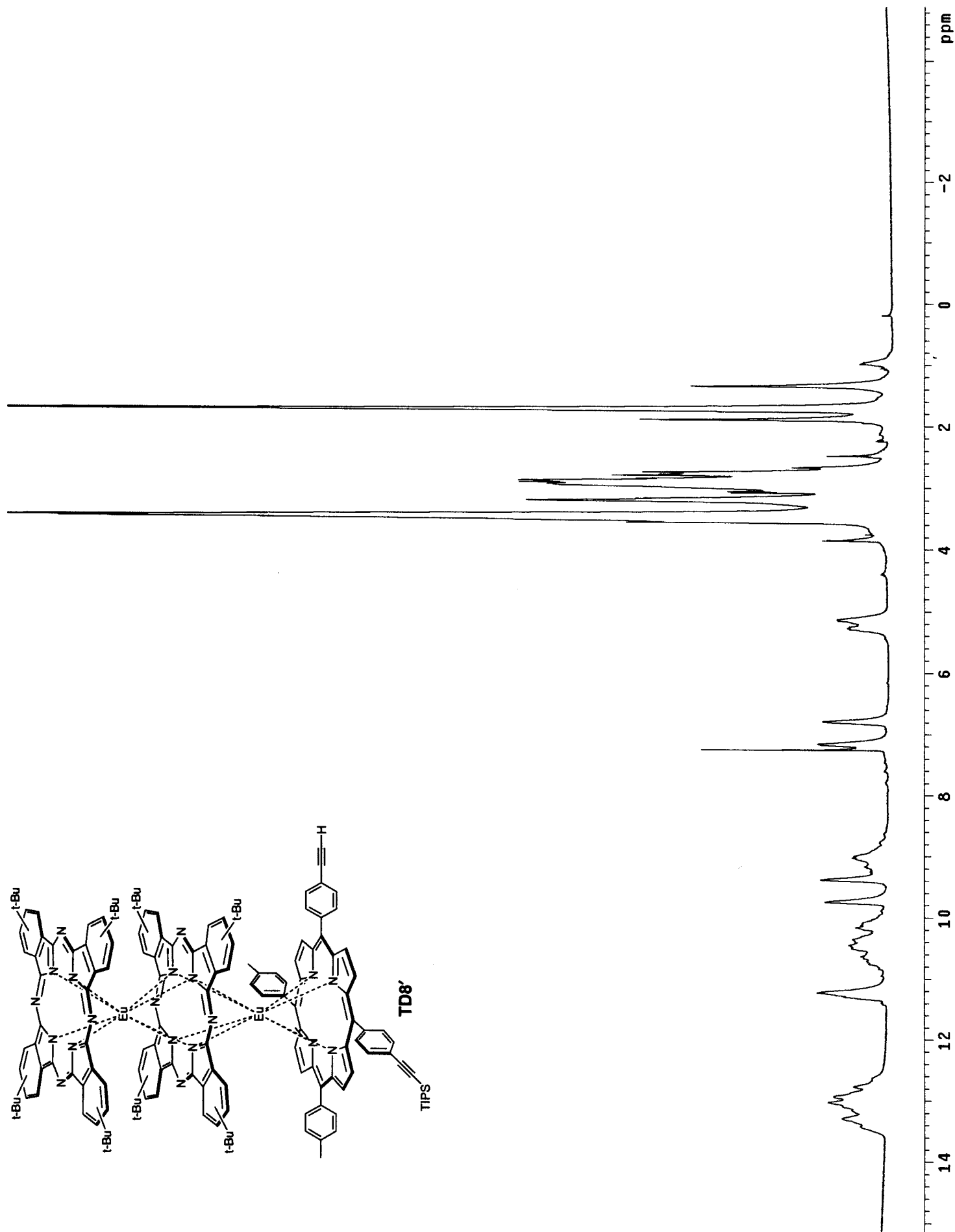
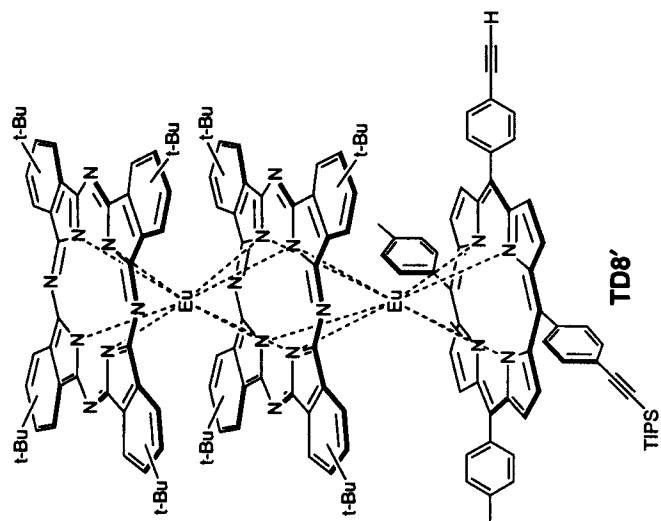


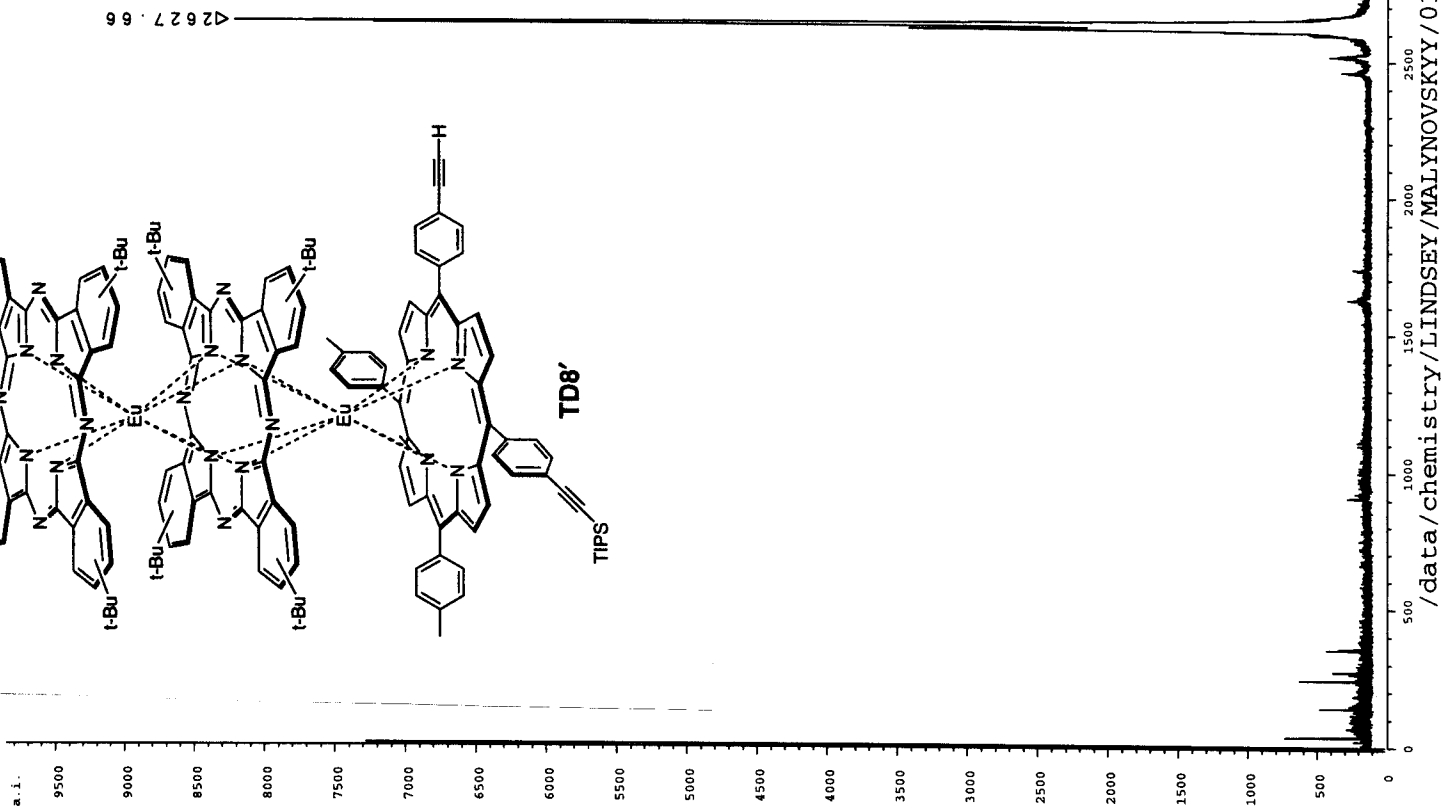
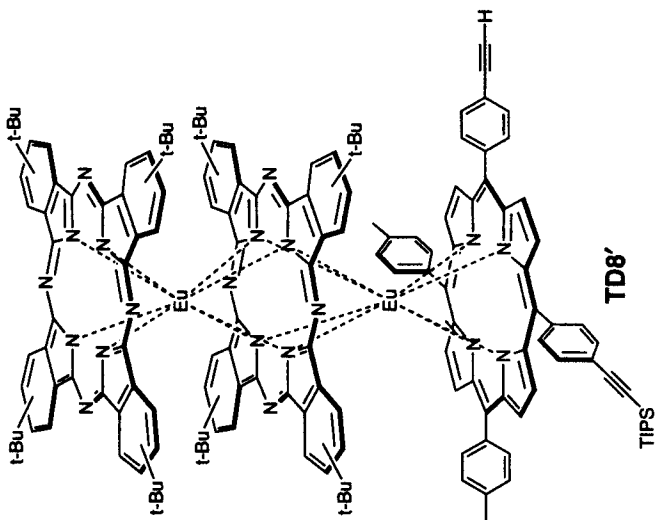




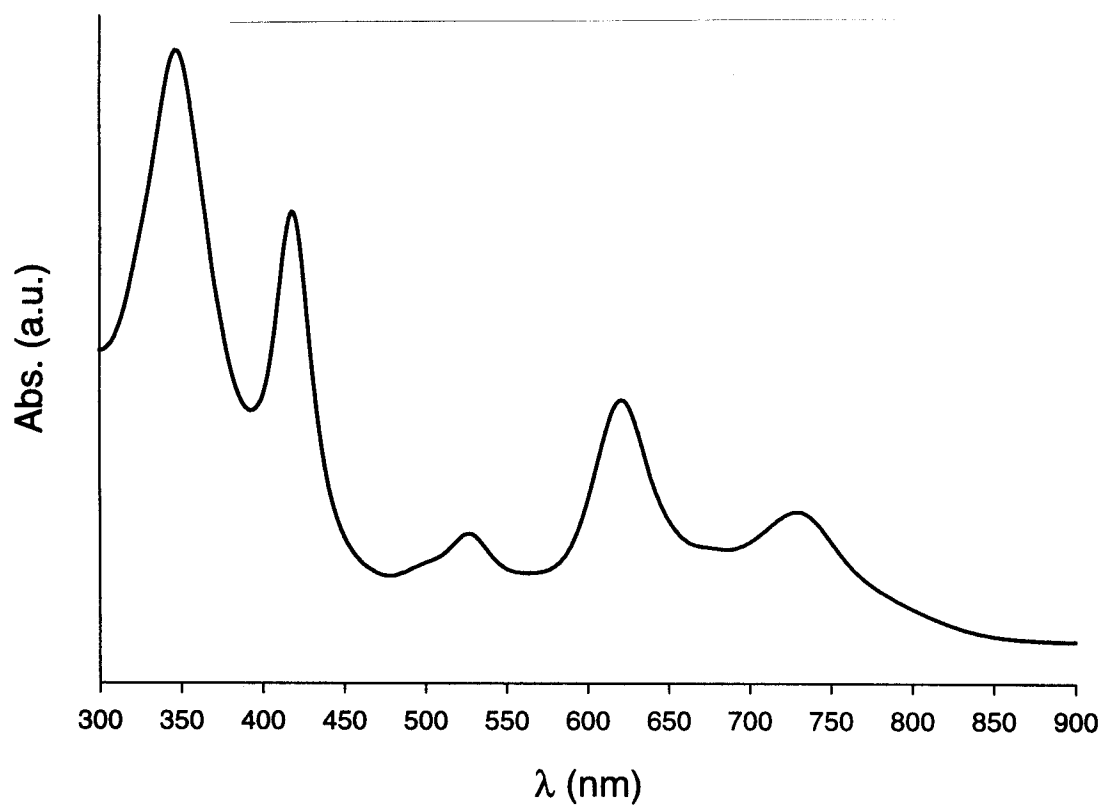
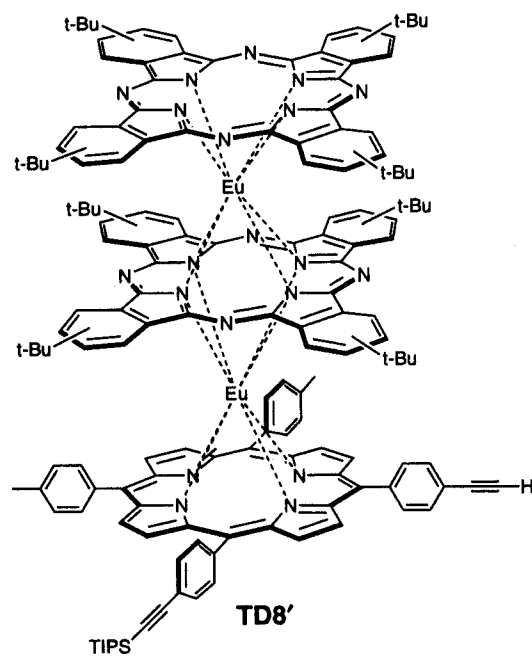
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 AQOP_m Reflector
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 NGSHOTS 200
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 SMOOTH2 0
 SMOOTH3 0
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 DELAY 0 [ns]
 Uis1 20.00 [KV]
 Uis2 18.30 [KV]
 Uis3 7.50 [KV]
 Uis4 7.50 [KV]
 Uis5 10.00 [KV]
 Uis6 10.00 [KV]
 RefPull 1.50 [KV]
 UdetL 0.00 [KV]
 UdetR 0.00 [KV]
 UdefL 2.00 [KV]
 UdefR 2.00 [KV]
 ATTN 44.0 [Hz]
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 ML2 344.656
 ML3 0.000
 HITURBO no
 GIBBY yes
 GIBBY Short
 DEFLON no
 RLSEND no
 LENSEND no
 LENSEND no
 Uis2END no
 DPCALI 510.84
 DPMASS 700.00 [Da]
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 LENSEND 0.28
 LENSEND 0.28
 LENSEND 0.28
 CMT1 TD(tms,tips)
 CMT2 attn = 44, shot = 200

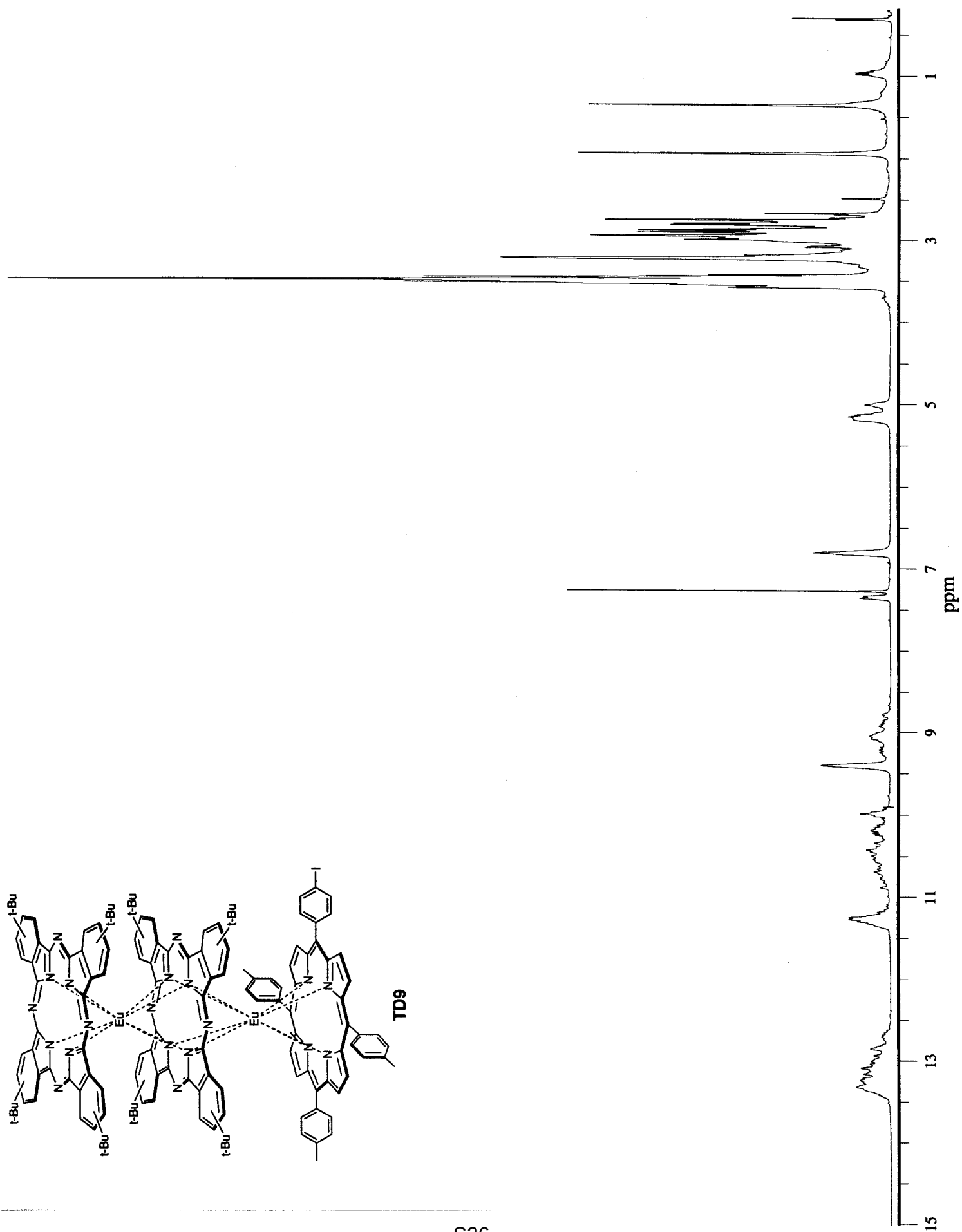


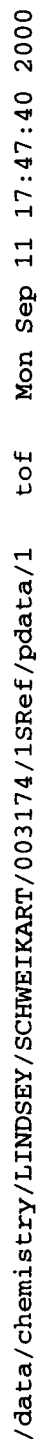




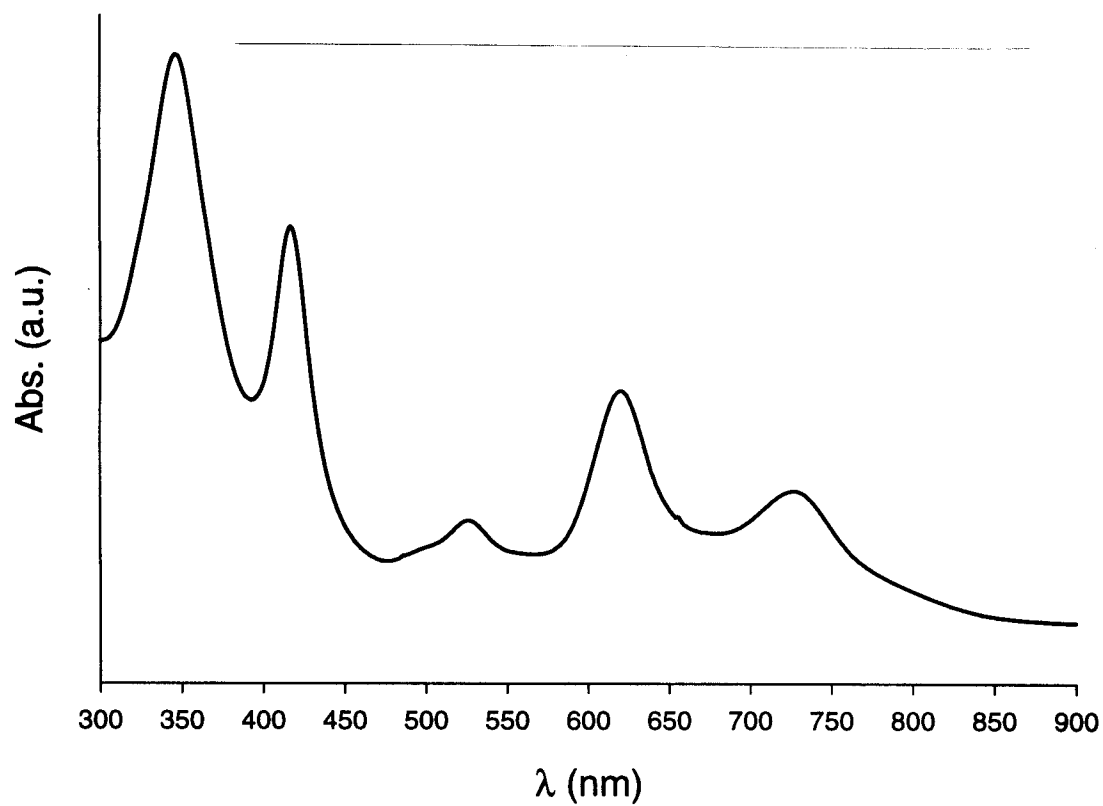
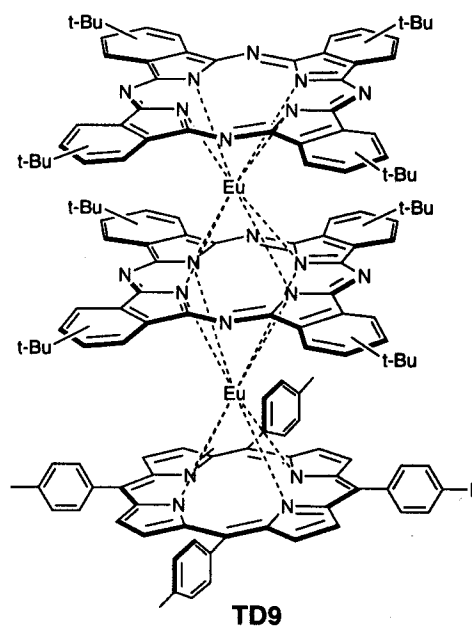
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 SMOB 0
 SMOPT2 0
 SMOPT3 0
 SMOPT5 0
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 DELAY 0 [ns]
 Uis1 20.00 [KV]
 Uis2 18.50 [KV]
 Uis3 7.50 [KV]
 Uis4 7.50 [KV]
 Uis5 10.00 [KV]
 Uis6 10.00 [KV]
 RefFull 1.55 [KV]
 Udet1 0.00 [KV]
 Udet2 0.00 [KV]
 Udet3 0.00 [KV]
 Udet4 0.00 [KV]
 Udet5 0.00 [KV]
 Udet6 0.00 [KV]
 Udet7 0.00 [KV]
 Udet8 0.00 [KV]
 Udet9 0.00 [KV]
 Udet10 0.00 [KV]
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 ML2 343.793
 ML3 0.000
 HITURBO no
 GDEON yes
 GDEON short
 DEFLON no
 RLSND no
 RLSND no
 LNSND no
 LNSND no
 Uis2END no
 DPCAL1 510.84
 DPMAS 200.00 [Da]
 DPMAS 0.28
 DPMAS 0.28
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 LNS2END 0.91
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 CMT2 atn 34. 300 shots

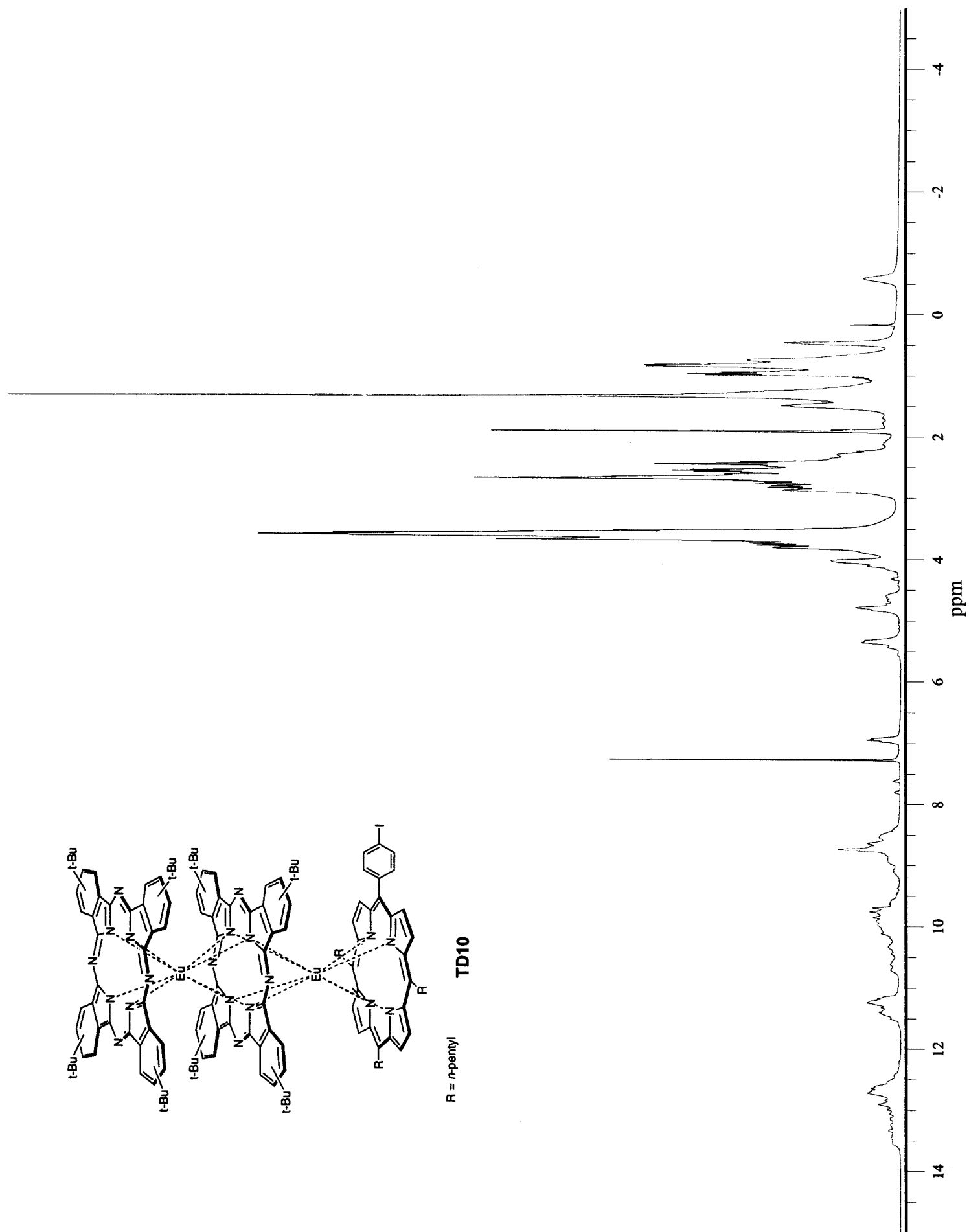






IS2HNDV	0.91	Synthesis 23: pure, cal.
CMT1		attn = 50, 80 shots
CMT2		





a.i.

2500

2000

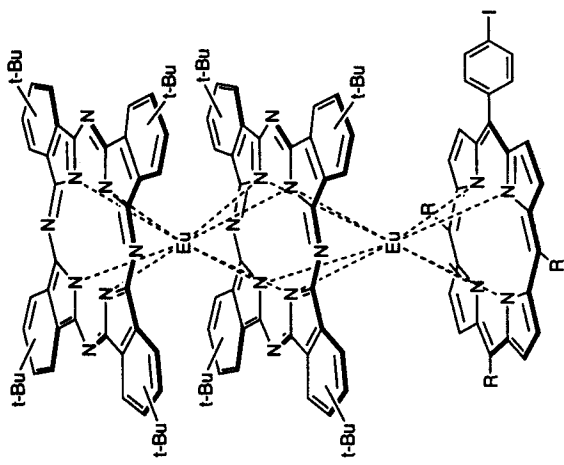
1500

1000

500

0

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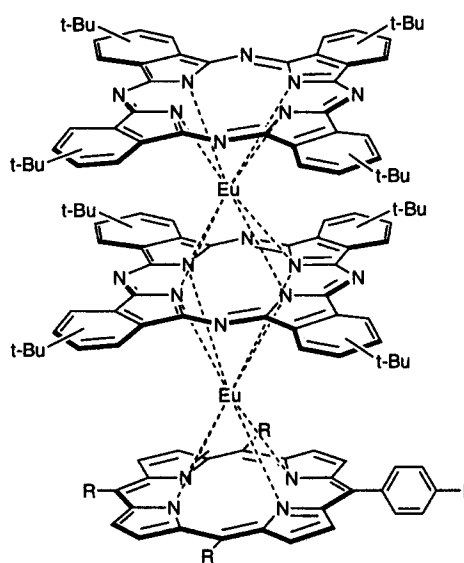
Δ2496.67

Δ2370.95
Δ2439.93

Δ1627.05

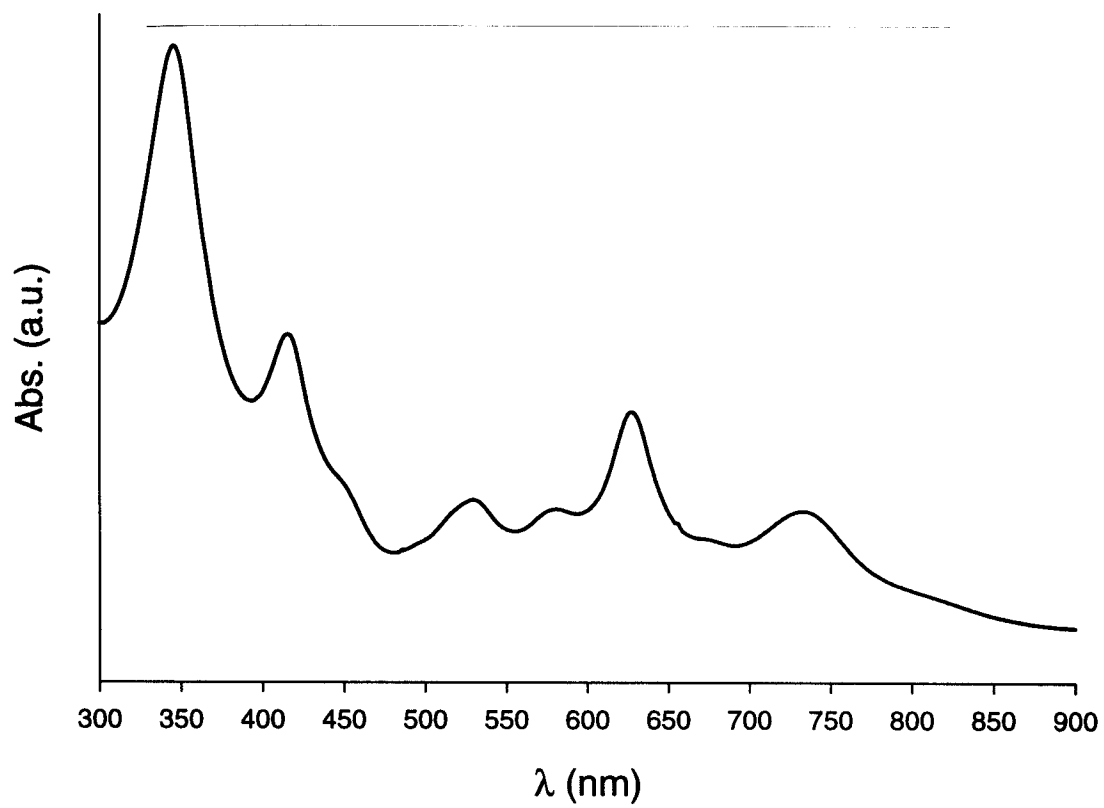
m/z

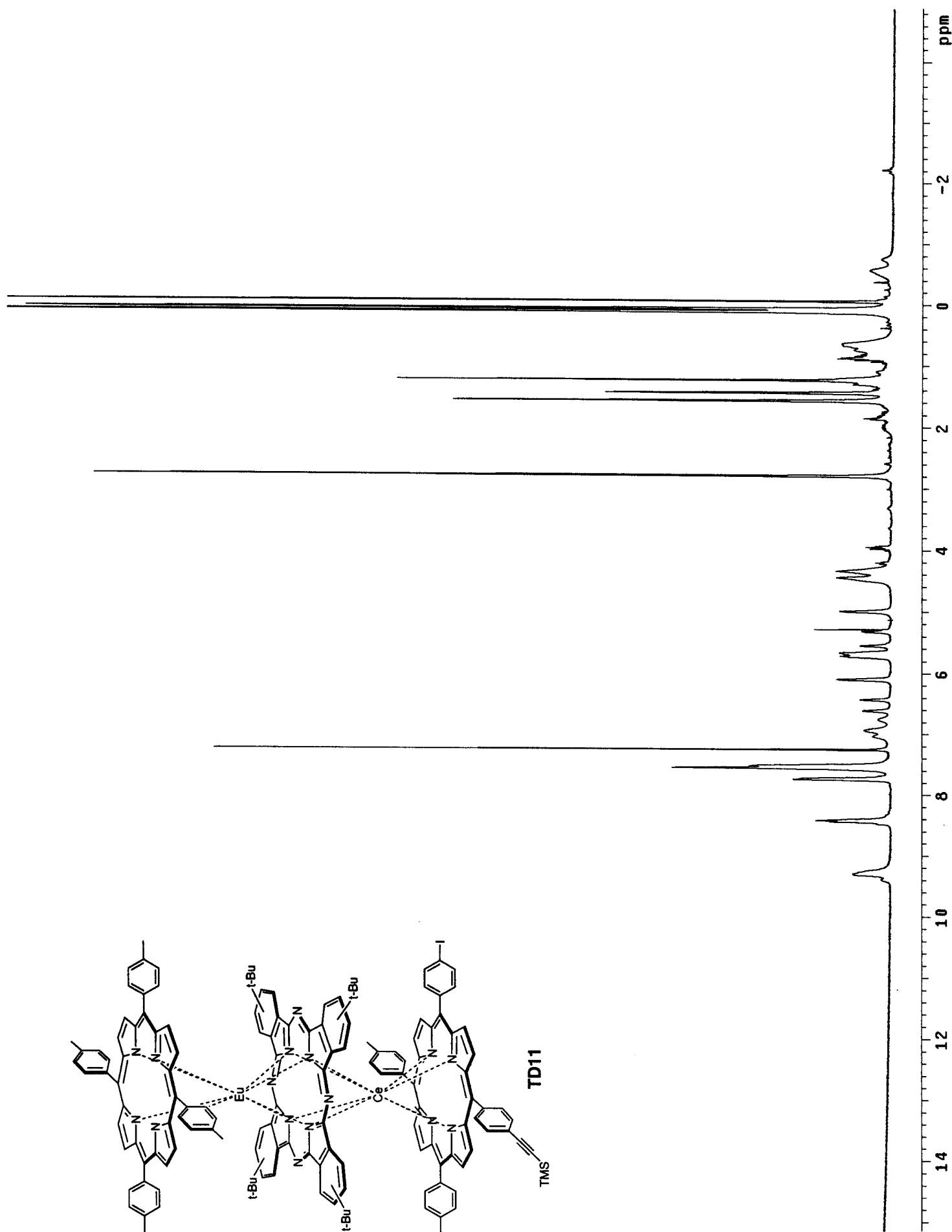
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SWHPTS1 0
SWHPTS2 0
SWHPTS3 0
DM 1.00 [ns]
DELAY 0 [ns]
UIs1 20.00 [KV]
UIs2 18.50 [KV]
UIs3 7.50 [KV]
UIs4 7.50 [KV]
UIs5 10.00 [KV]
UIs6 10.00 [KV]
RefFull 0.00 [KV]
UdeR 1.55 [KV]
UdeR 0.00 [KV]
UdeR 0.00 [KV]
UdeR 2.00 [KV]
UdeR 1.00 [KV]
UdeR 42.00 [Hz]
ML1 2071887.465
ML2 339.882
ML3 0.000
HITURBO no
GDEON yes
ORBITAL no
DEZON no
REZON no
RLSEND no
LISEND no
LISEND no
LISEND no
DPCAL1 510.84
DPMAS 200.00 [Da]
DPMAS 0.33
DPMAS 0.33
IS2BNDV 0.91
CMT1 Synthesis 45: after 2. silica column
CMT2 attn = 42, 100 shots

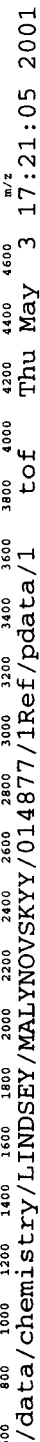


R = *n*-pentyl

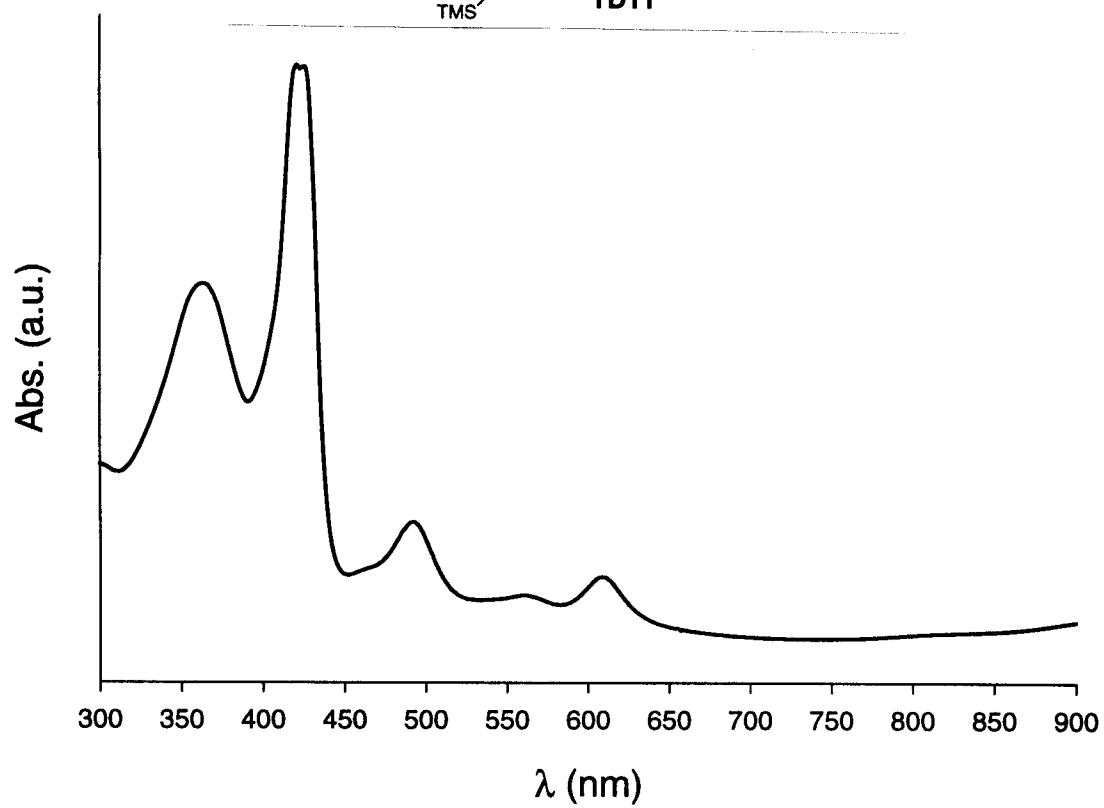
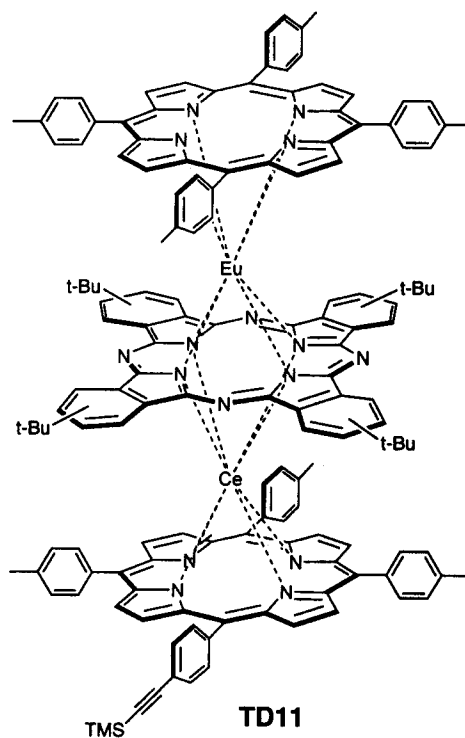
TD10

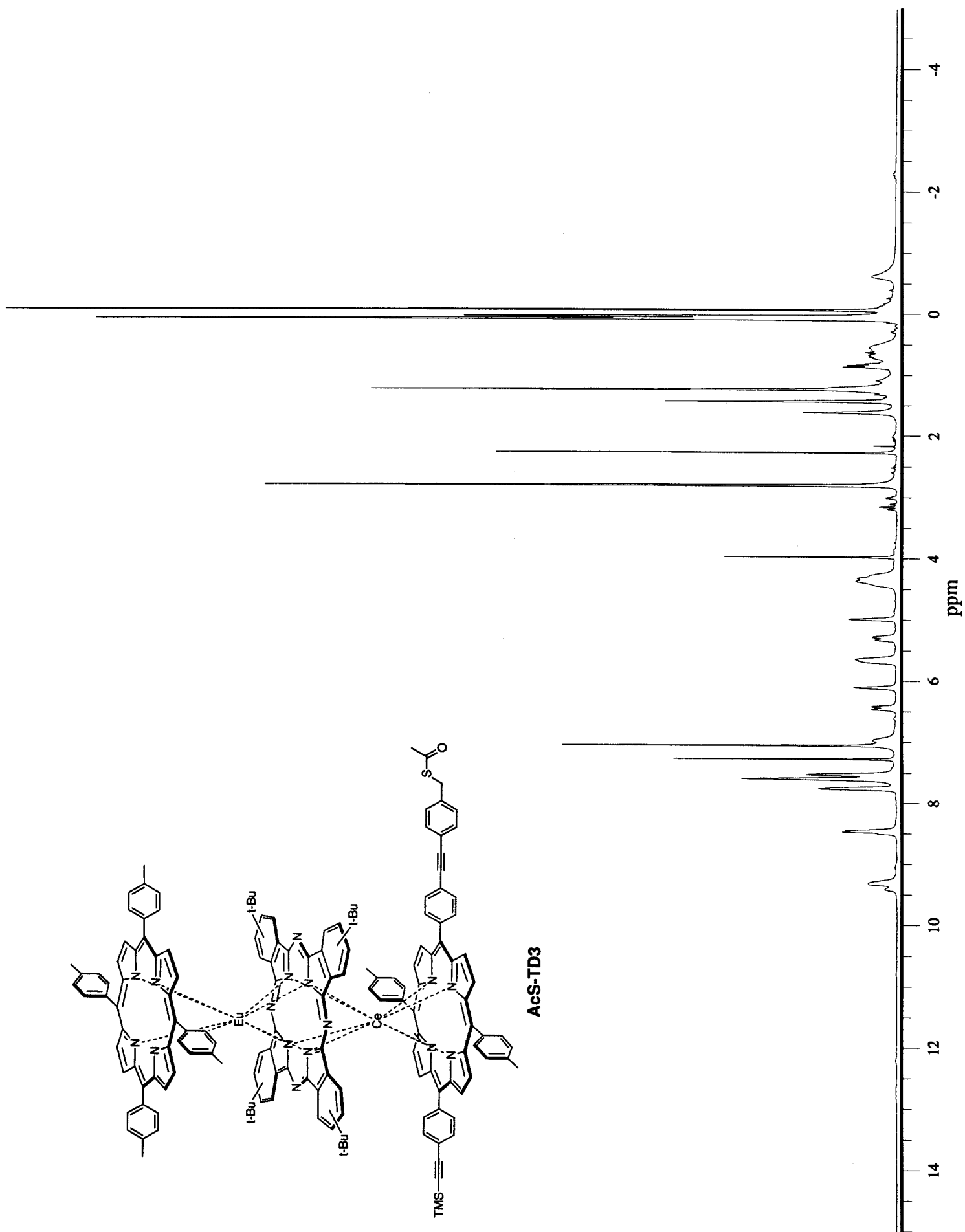




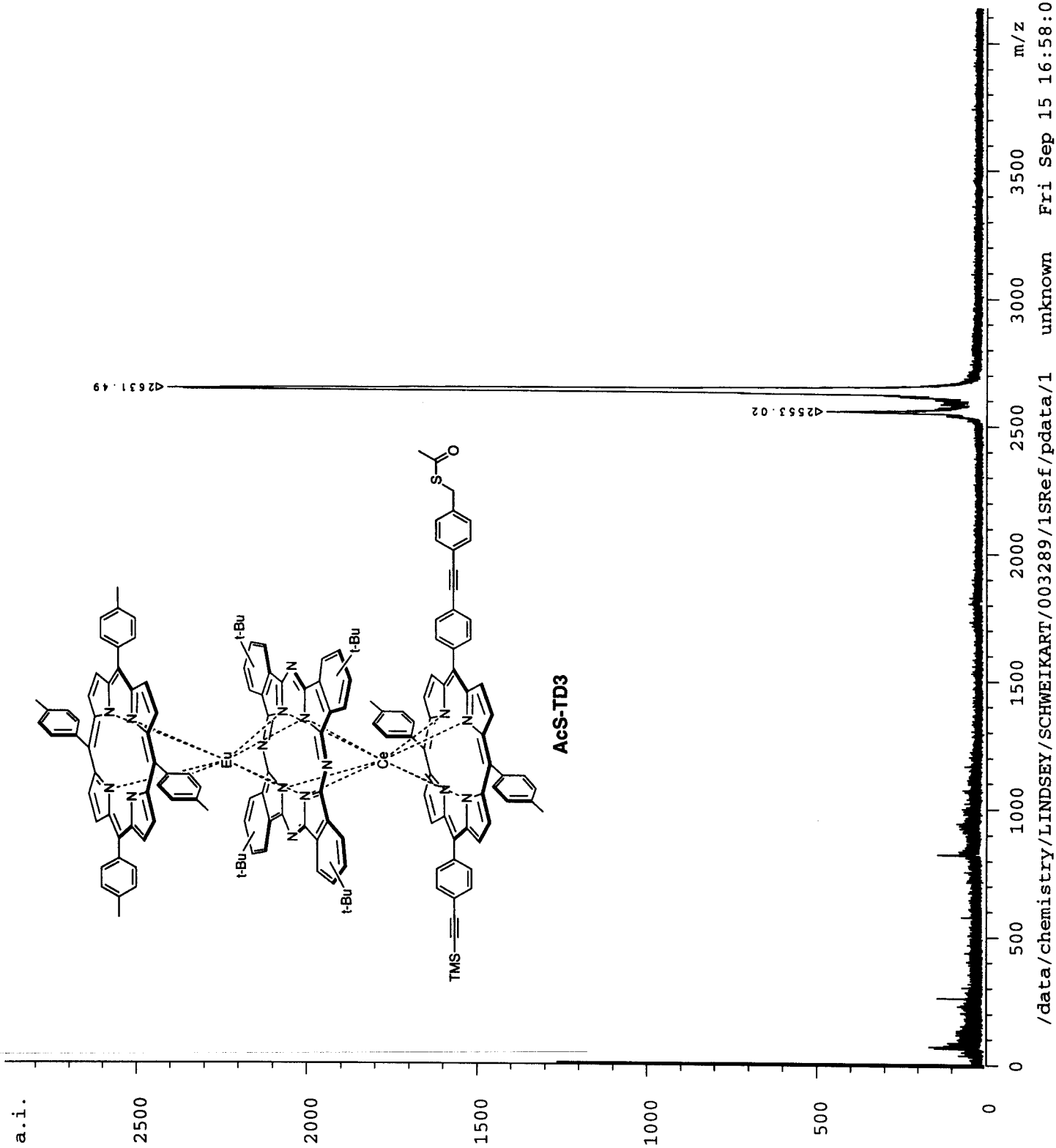


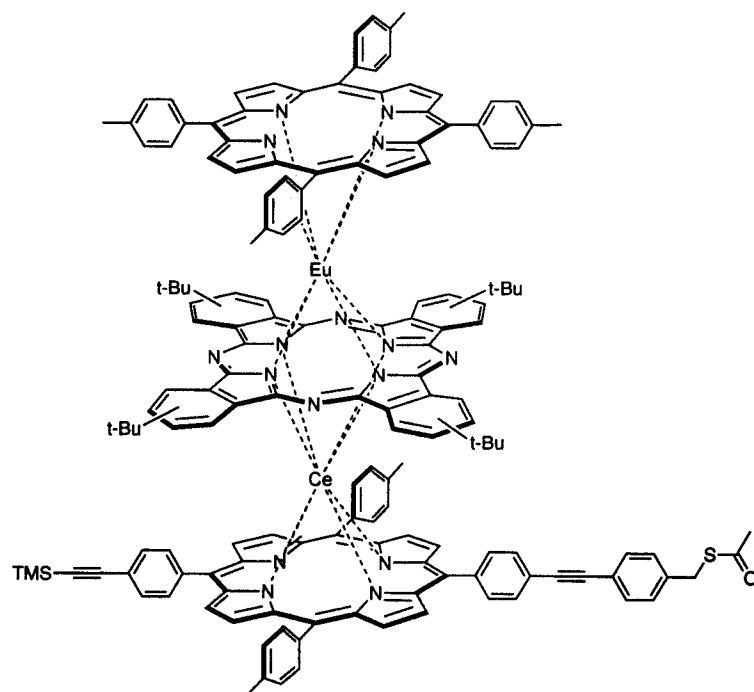
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TD	50000
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SNOMNUM	1
SMOFTS1	10
SMOFTS2	10
SMOFTS3	0
DW	1.00 [ns]
DELAY	0 [ns]
Uls1	20.00 [KV]
Uls2	18.50 [KV]
Uls3	17.50 [KV]
Ulsn	7.50 [KV]
Ulimass	10.00 [KV]
Uhimass	0.00 [KV]
UdetL	1.55 [KV]
UdetR	2.00 [KV]
UREPHZ	1.00 [Hz]
ATTEN	34.0
MU1	2073816.169
MU2	343.764
HITURBO	no
HIDRON	yes
GDELY	short
DEFLEON	no
RINSRD	no
RINSRD	no
HISRD	no
DOPCAL1	510.84
DPMASS	200.00 [Da]
LRENDVAL	0.33
LENDRV	0.28
LENDRV	0.28
CMT2	TD=4 Porph-Ce-TbUpC-Eu-Porphz)
CMT2	attn = 34, 100 shots



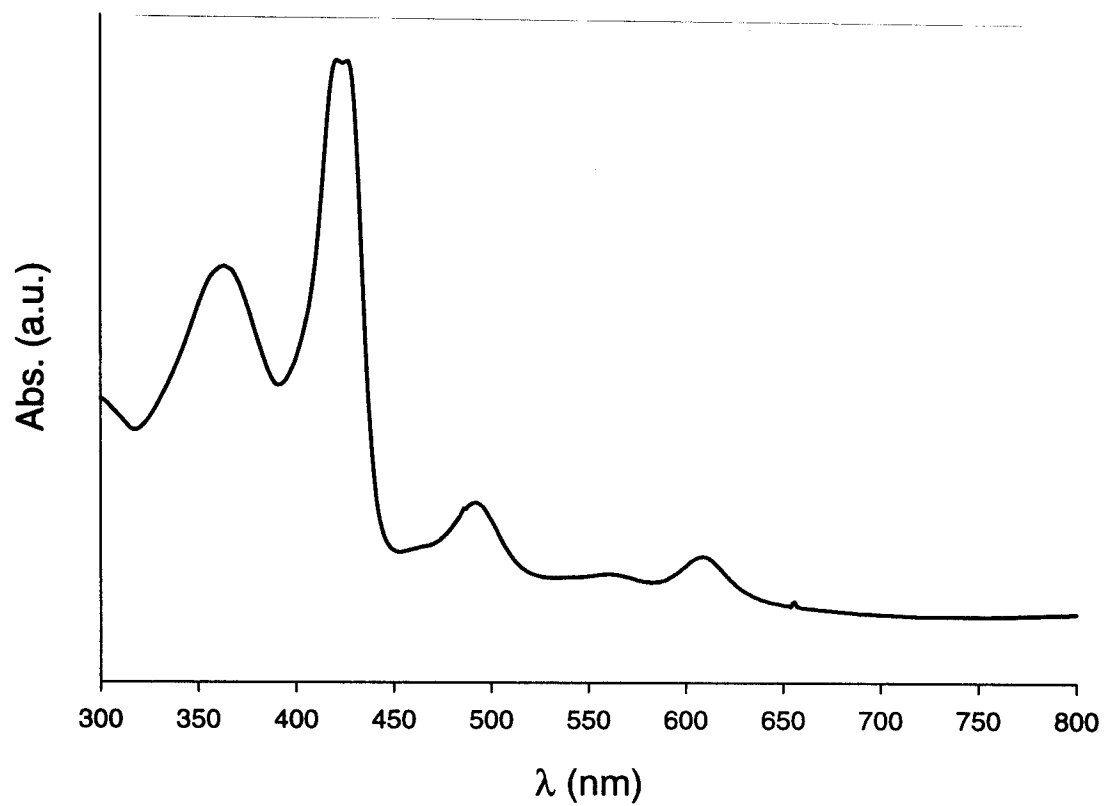


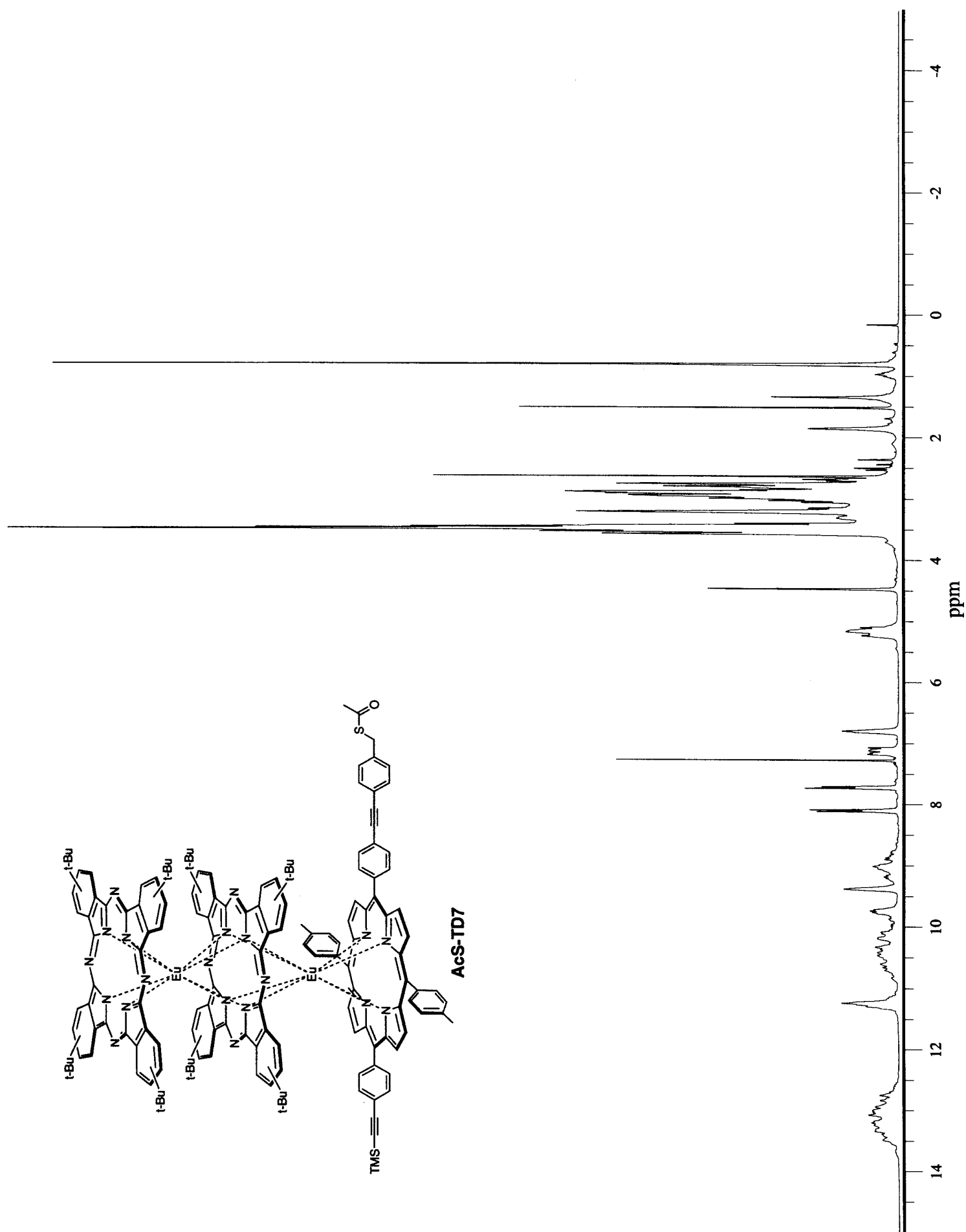
S35

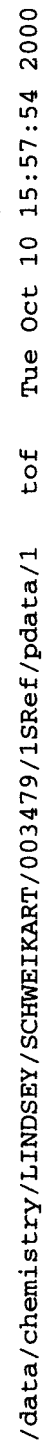




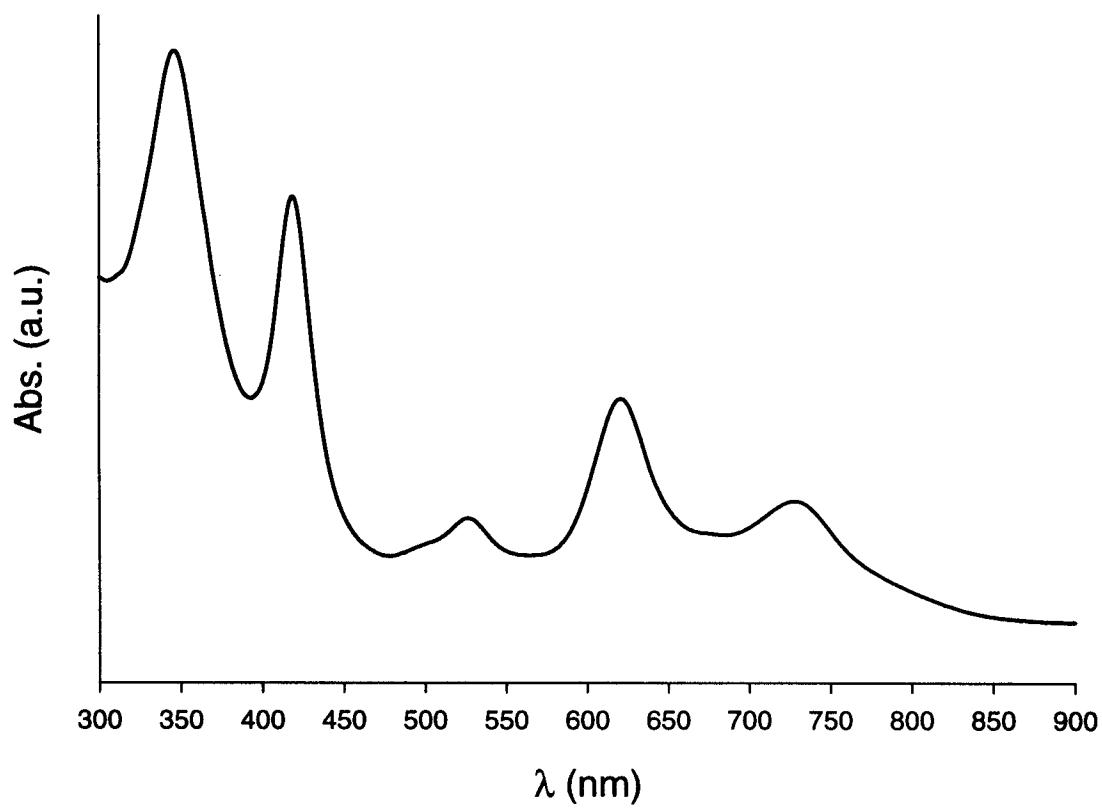
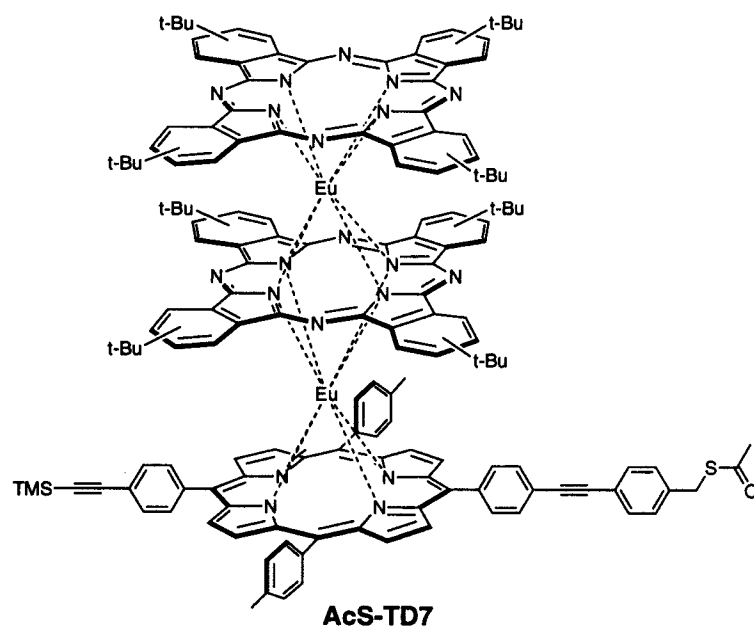
AcS-TD3

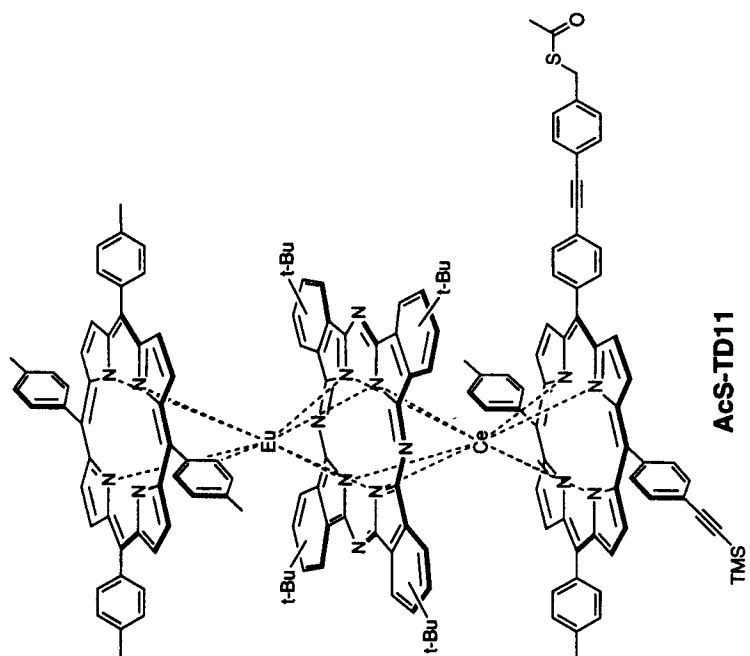




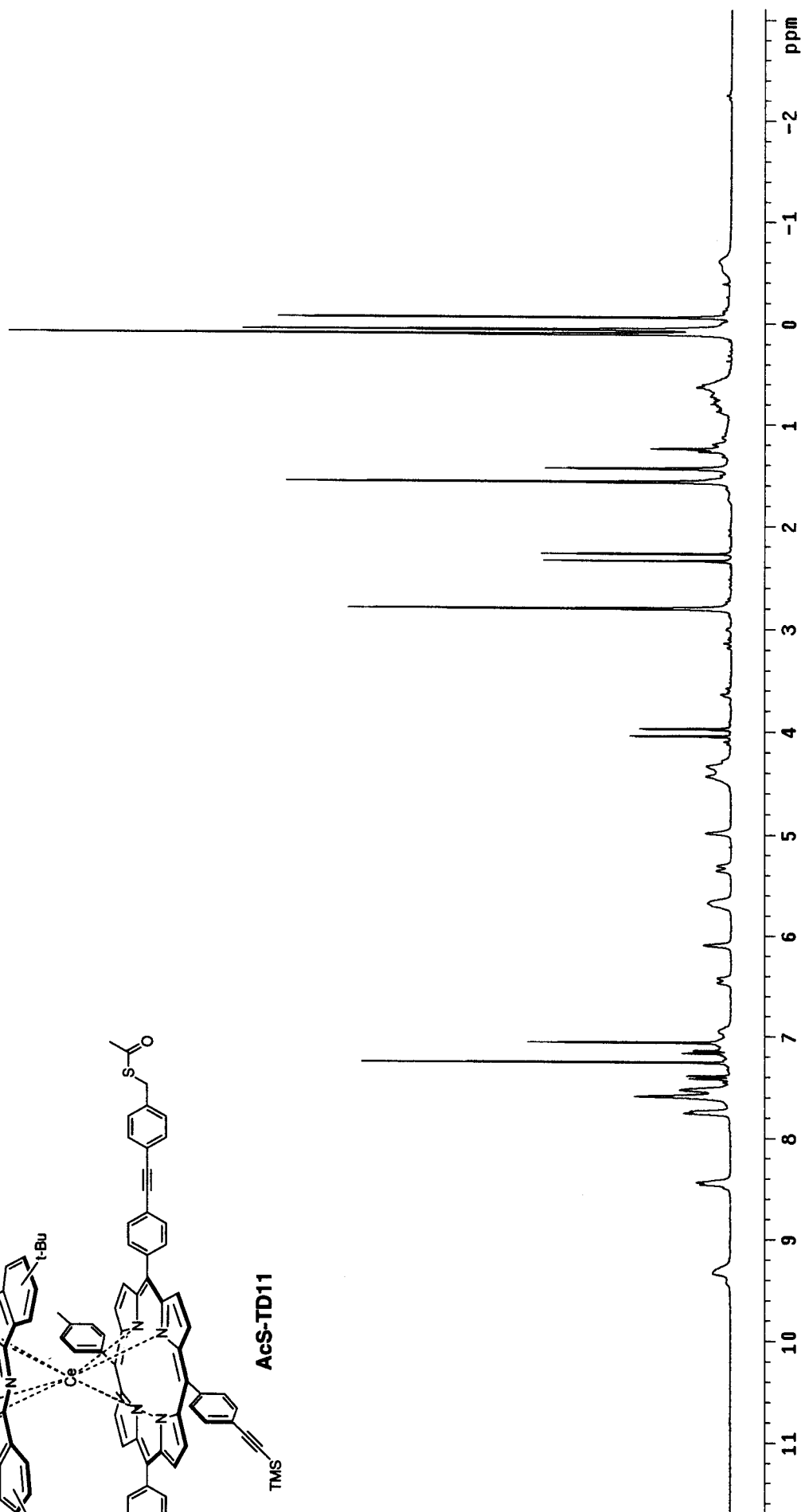


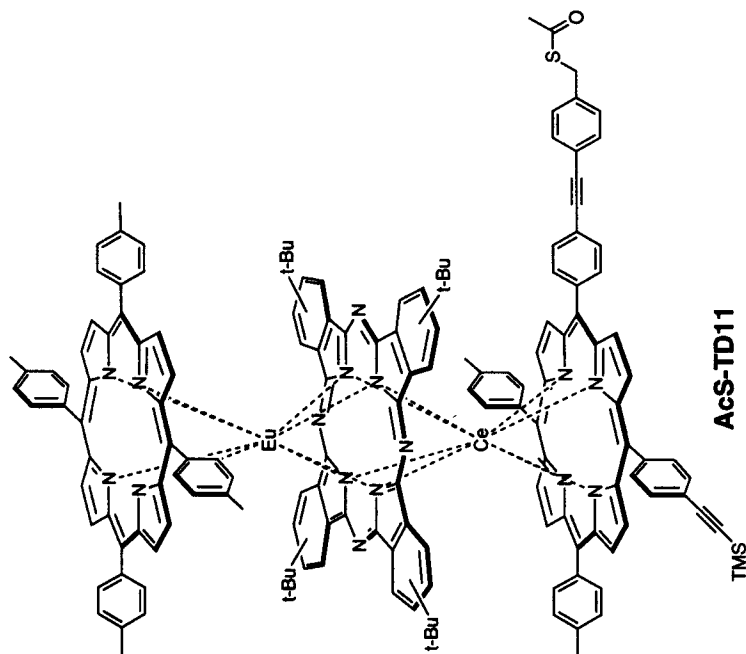
INSTRUM	TOP
Opid	Unknown
SHPNAM	003479
AO_DATE	Tue Oct 10 15:56:56 2000
PATN_PATH	/data/chemistry/LINDSEY/SCHWEMKART
MRI	Reflector
AOPC_m	45000
TD	80
NGSHOTS	80
SNOMUN	0
SHOTFIS	0
SHOTFIS2	0
SHOTFIS3	0
DW	1.00 [ns]
DELAY	0 [ns]
Uls1s	20.00 [KV]
Uls2s	18.50 [KV]
Uls3s	17.50 [KV]
Uls4s	7.50 [KV]
Uls5s	10.00 [KV]
Uls6s	10.00 [KV]
RefFull	0.00 [KV]
UdetL	1.55 [KV]
UdetR	2.00 [KV]
UdetB	2.00 [KV]
REPHEZ	1.00 [Hz]
ATTEN	51.0
MU1	2073385.532
MU2	321.174
HITURBO	0.000
GIDDEON	yes
GDELY	short
DEFLEON	no
FLANSD	no
FLANSND	no
UISSEND	no
DPKCAL1	510.84
DPNMAS	200.00 [Da]
LRENRDVAL	0.33
LRENRDNOV	0.28
CMT1	Synthesis 33: pure, after prep.
CMT2	attn = 51.30 shots





S41



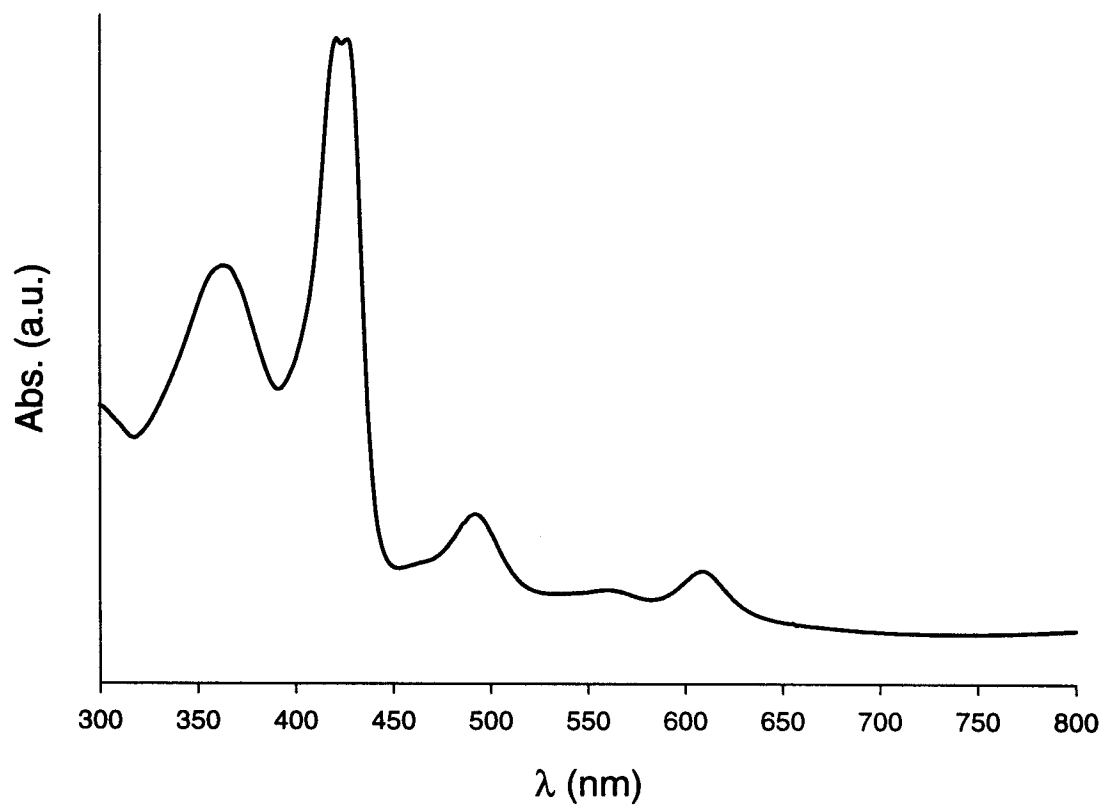
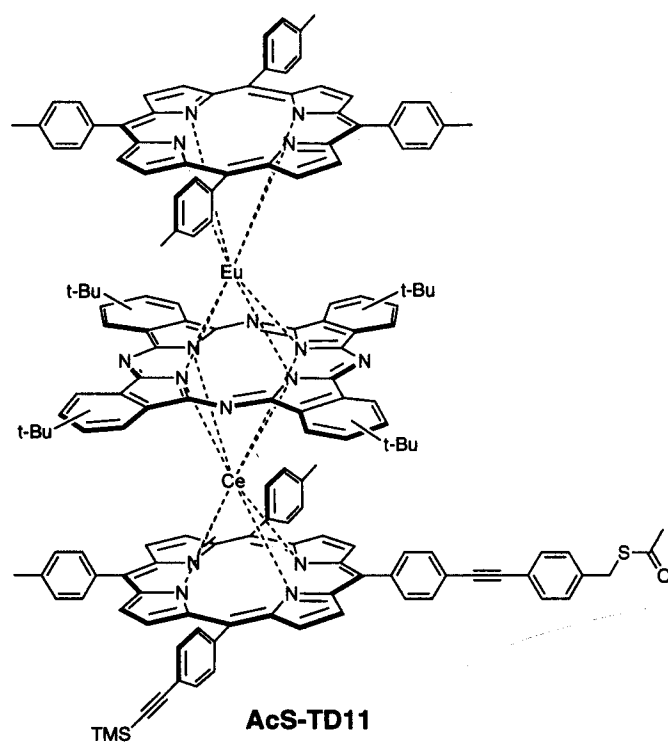


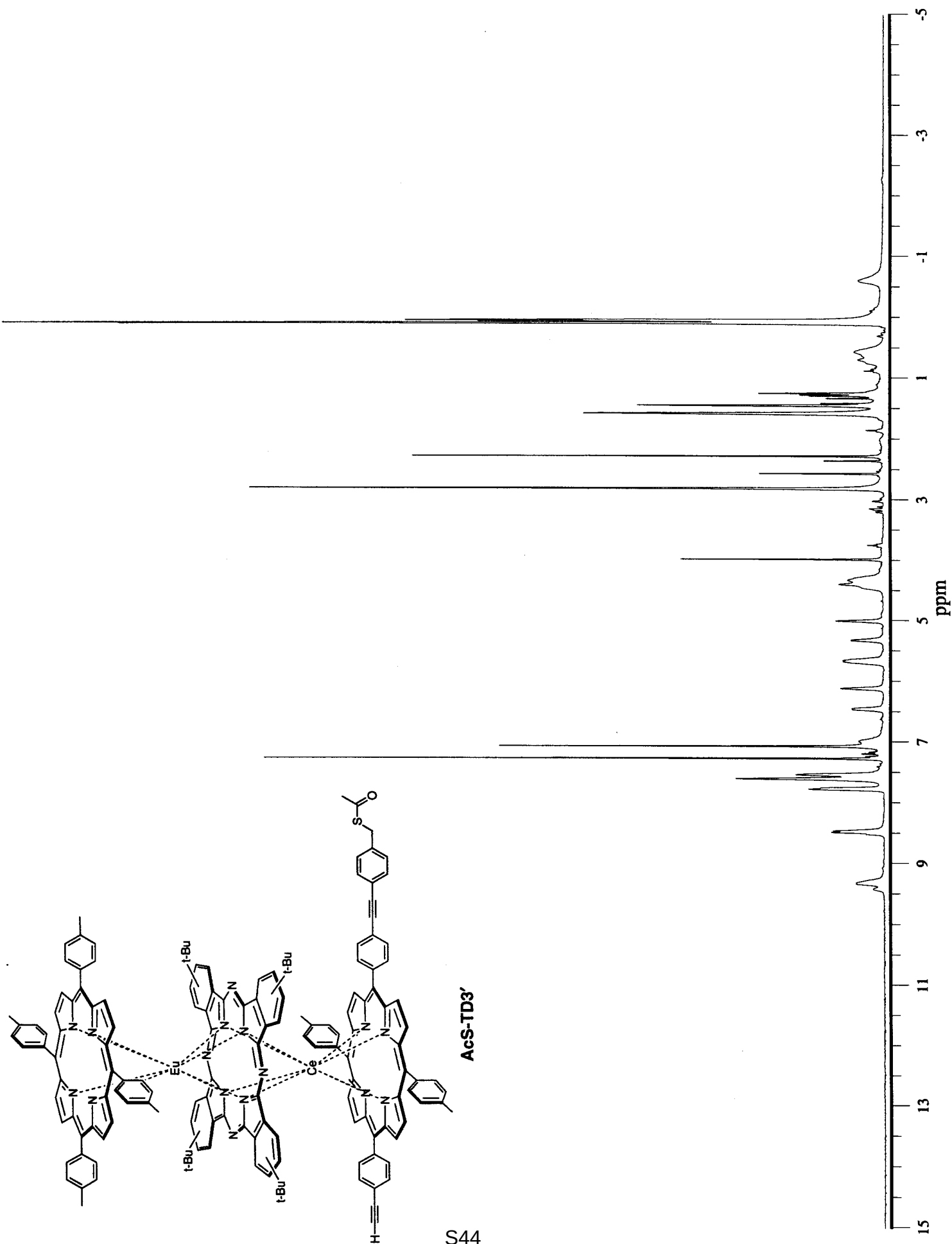
a.i.

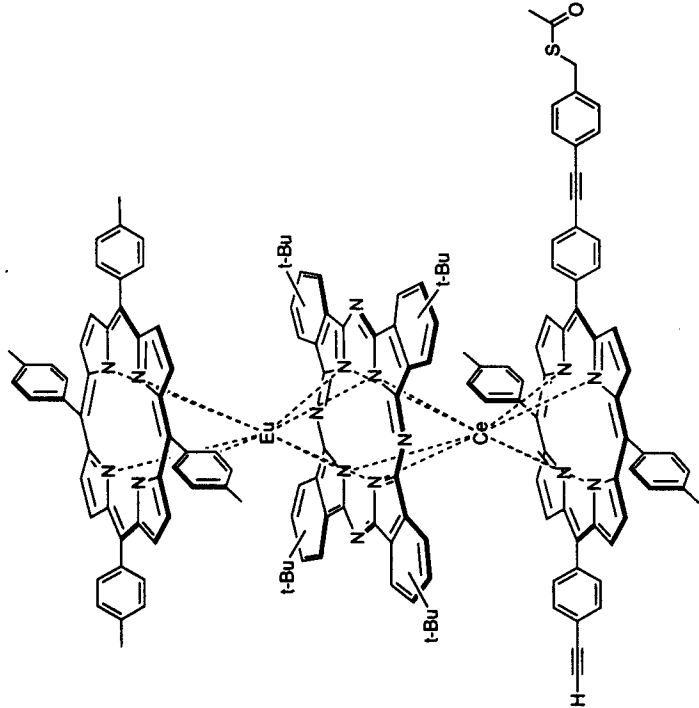
INSTRUM TOP
OPID Unknown
PRM 13.00
ACQ DATE Fri Jul 6 10:24:37 2001
PATH /data/chemistry/LINDSEY/MALYNOVSKYY
POLARI POS
AQOP_m Reflector
TD 50000
NGSHOTS 200
SPINRATE 0
SMOPTS1 0
SMOPTS2 0
SMOPTS3 0
DW 1.00 [ns]
DELAY 0 [ns]
Uis1 20.00 [KV]
Uis2 18.50 [KV]
Uis3 7.50 [KV]
Uis4 7.50 [KV]
Uimass 10.00 [KV]
RefFull 0.00 [KV]
UdetR 1.55 [KV]
Udef1 2.00 [KV]
Udef2 1.00 [KV]
ATTEN 42.0 [Hz]
ML1 2067510.748
ML2 353.368
ML3 0.000
HITURBO no
GDEON yes
GDEUX short
DEFLON no
RLSND no
LLSND no
UIS2END no
DPCALI 510.84 [Da]
DPMAS 200.90
DPMAL 0.25
LBNVAL 0.28
IS2BNDV 0.91
CMT1 TD12 (TMS, mono-L)
CMT2 atten=38, shots 200

<2545.96

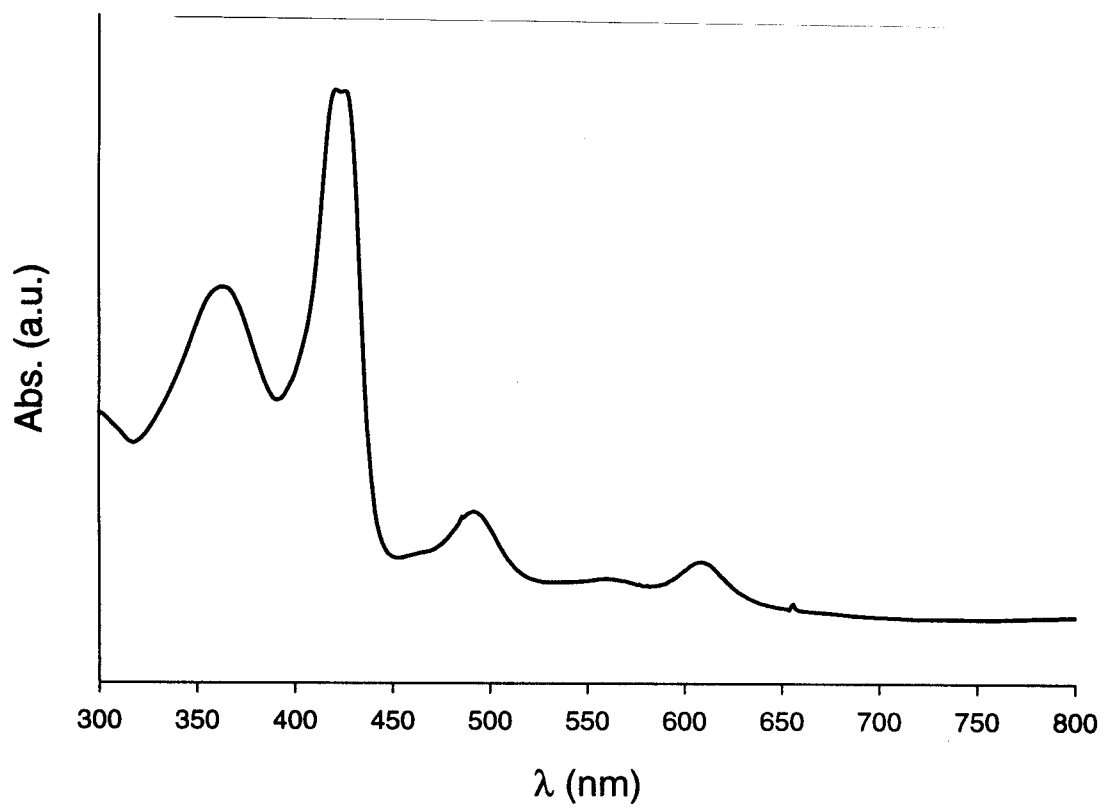
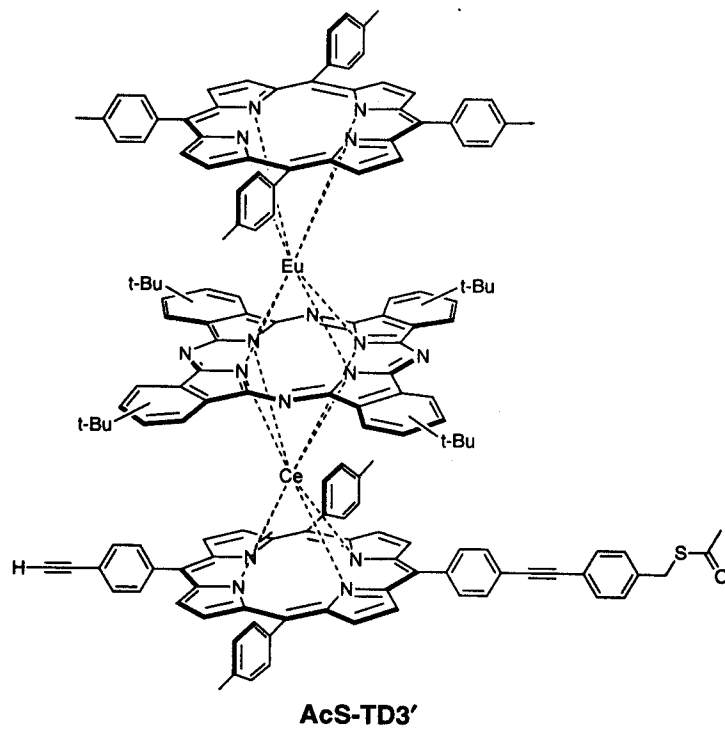
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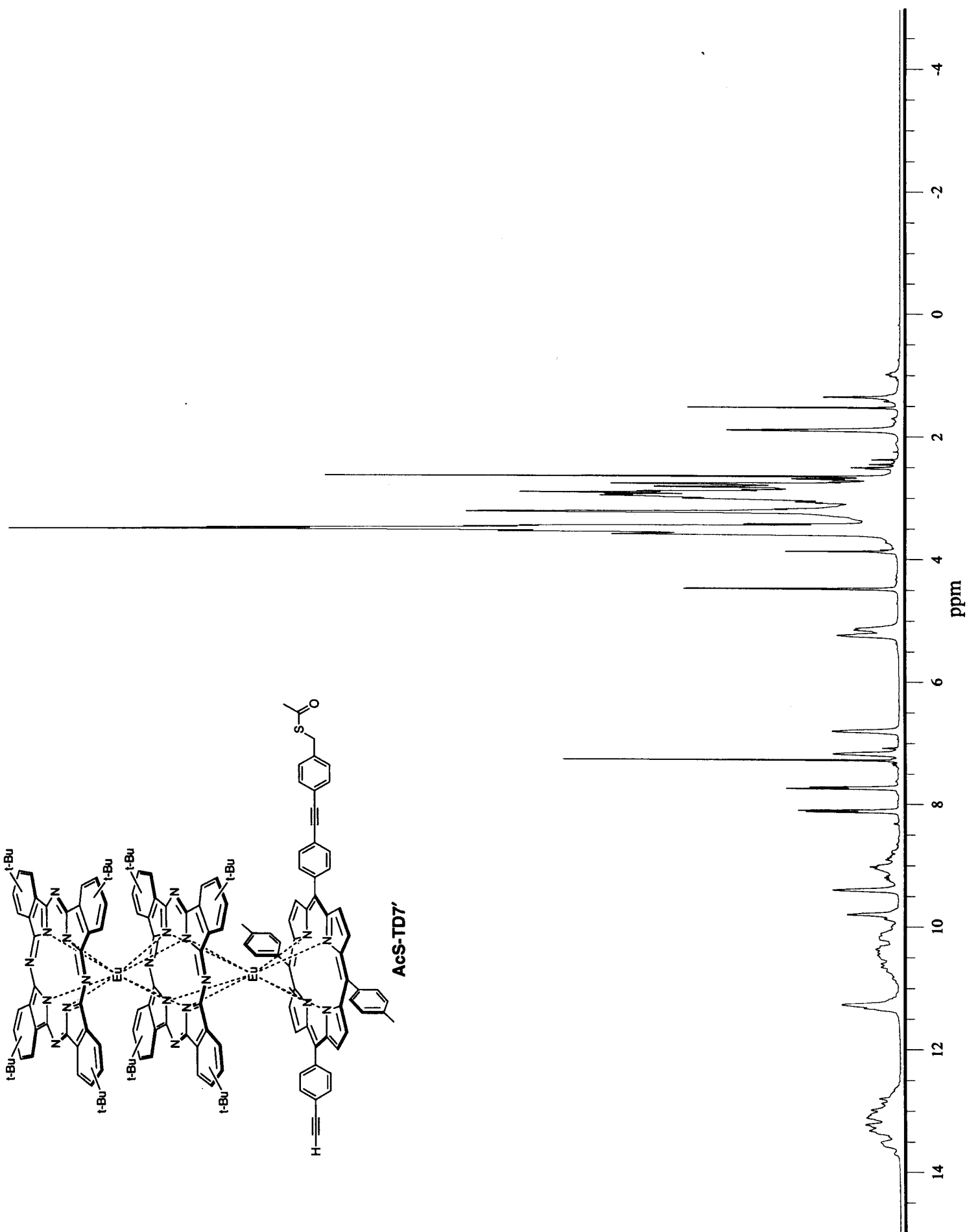
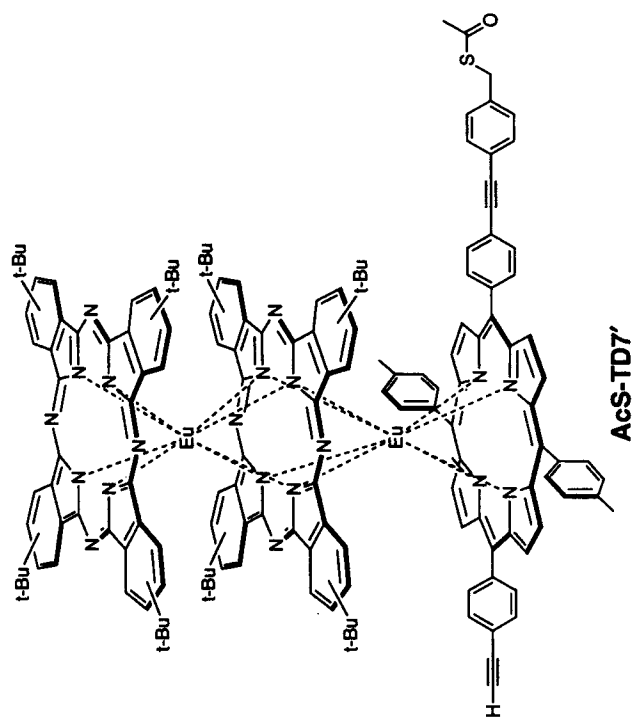


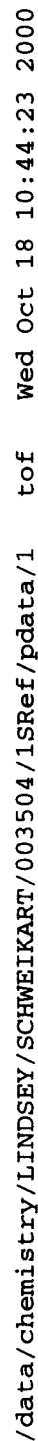




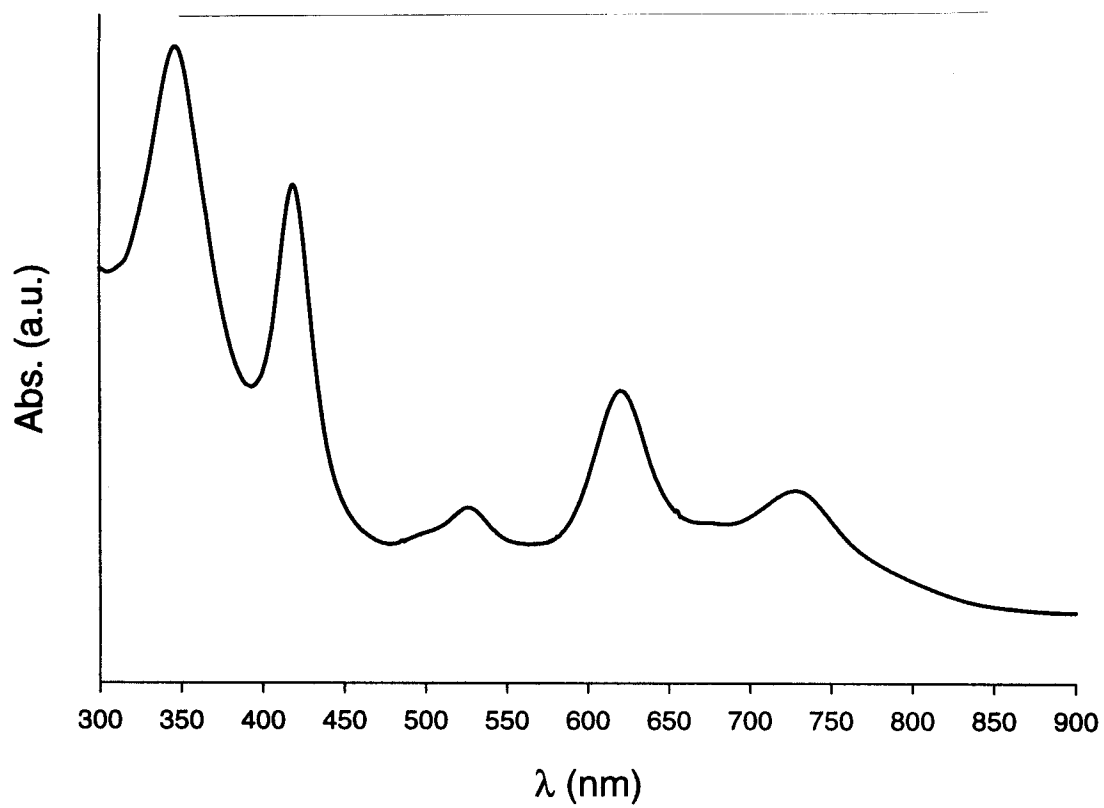
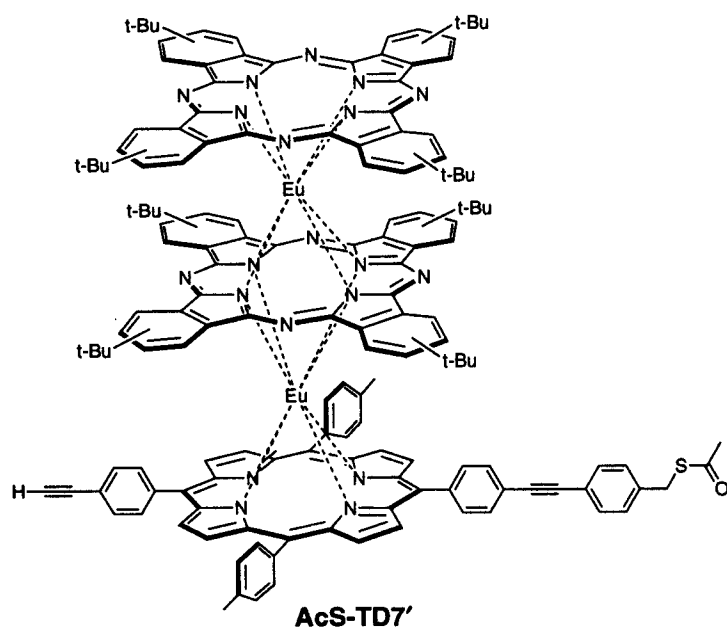
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/data/chemistry/LINDSEY/SCHWEIKART/003730/1SRef/pdata/1
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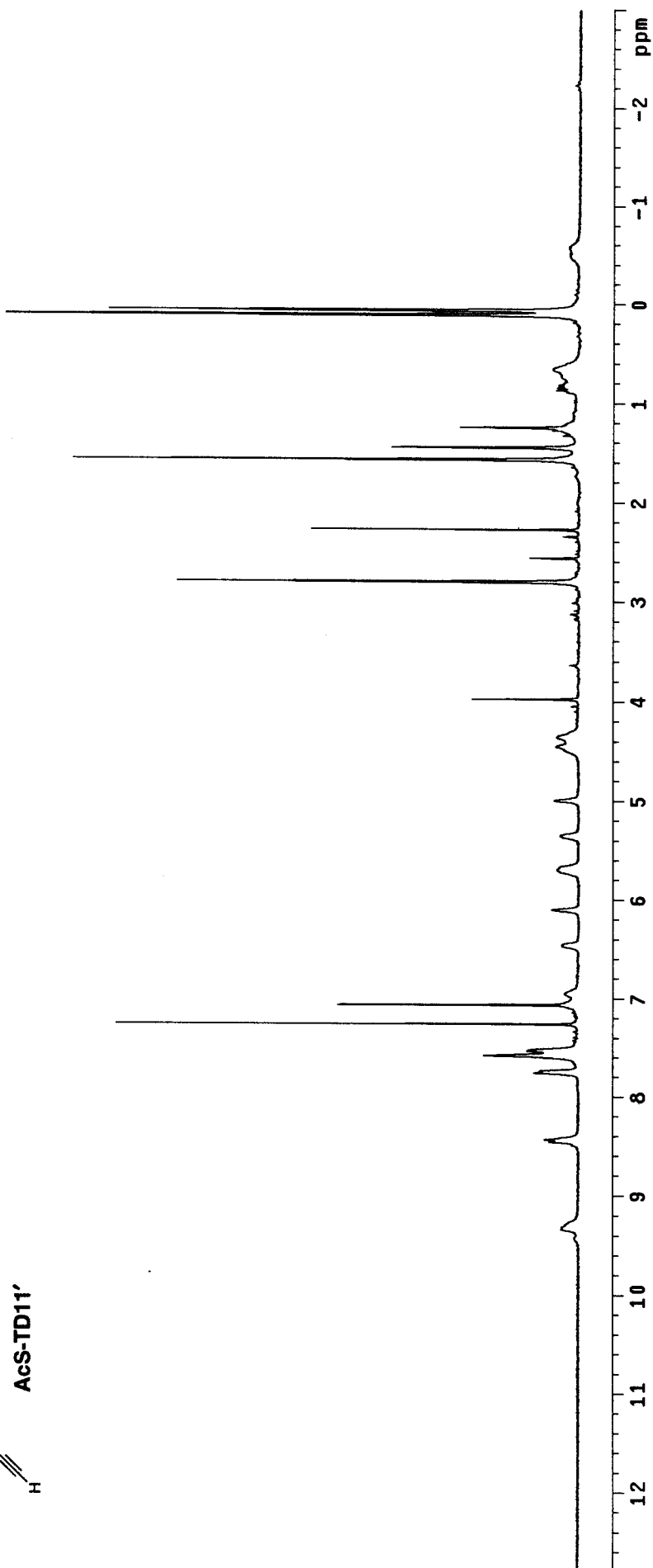
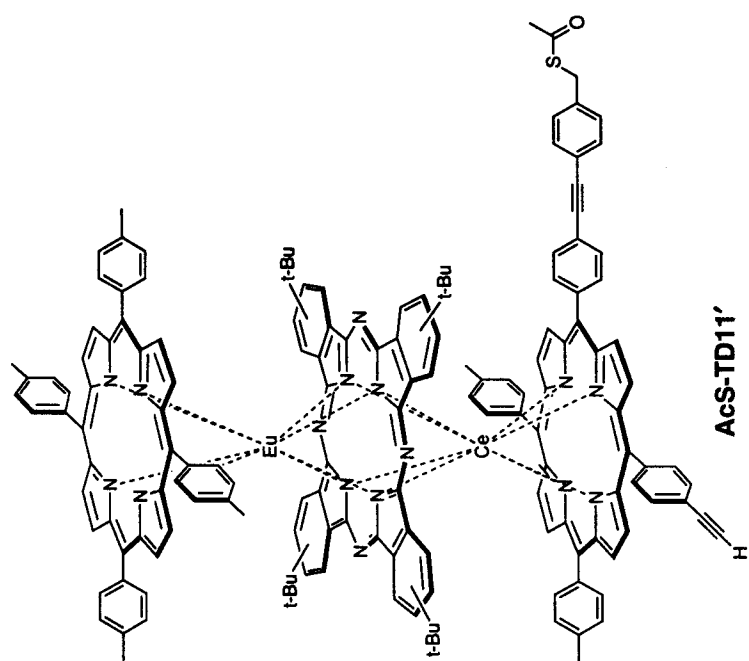


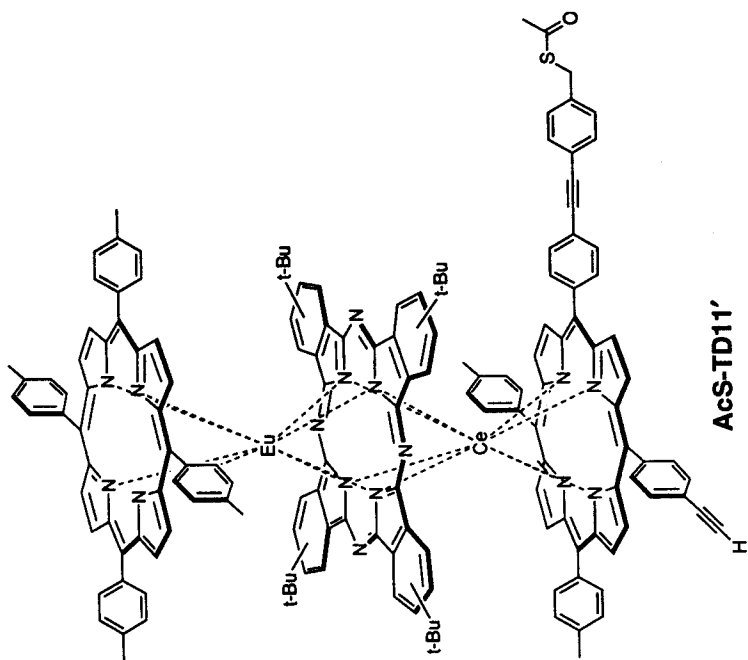




S48



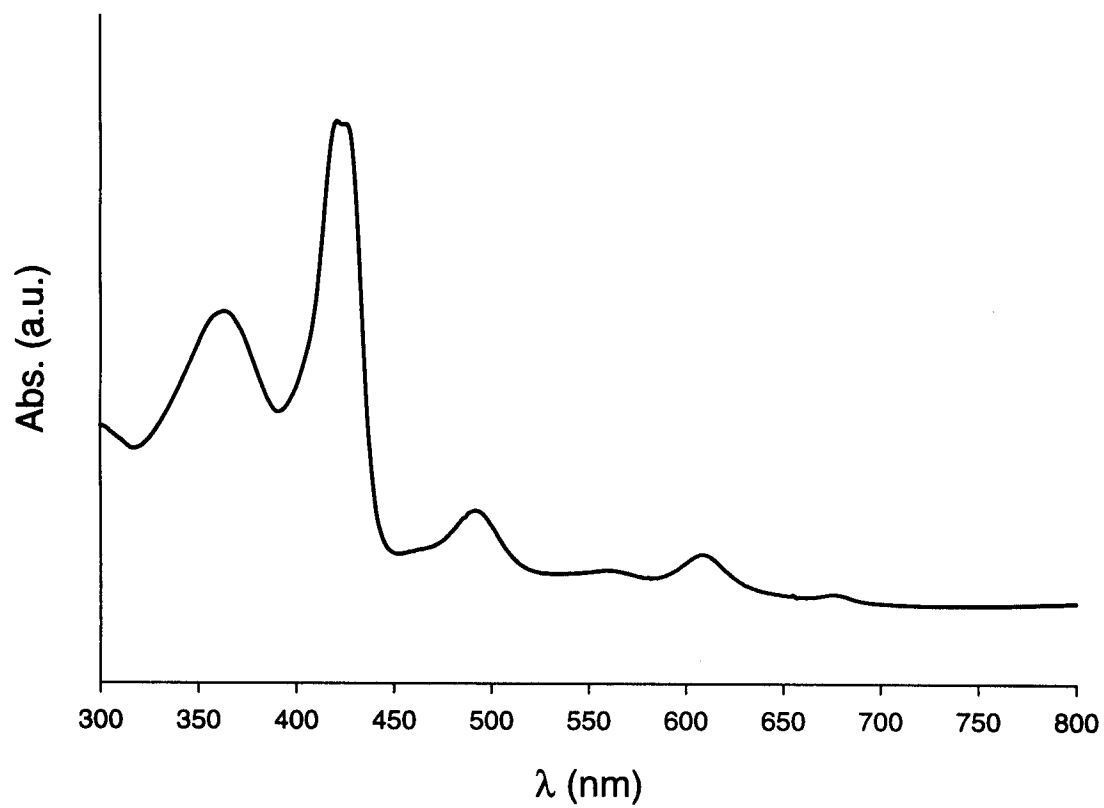
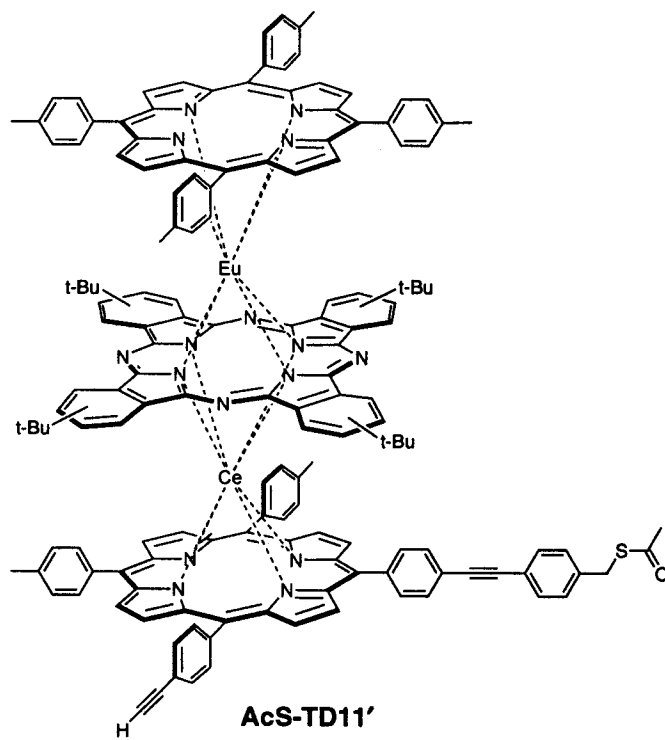


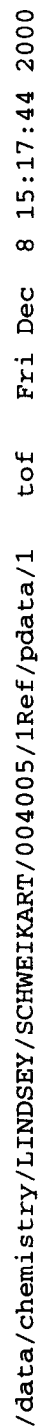


Δ2549.47

Δ2475.11

INSTRUM TOP
OpId Unknown
APRNUM 015249
DATE 22 12-20-51 2001
PATH /data/chemistry/LINDSEY/MALYNOVSKYY
POLARI POS
AQOP_m Reflector
TD 50000
NOSHOTS 400
SHOTS 0
SMPT52 0
SMPT53 0
DW 1.00 [ns]
DELAY 0 [ns]
Uls1 20.00 [KV]
Uls2 18.50 [KV]
Uls3 7.50 [KV]
Uls4 7.50 [KV]
Uls5 10.00 [KV]
Uls6 10.00 [KV]
RefPull 0.00 [KV]
UdetL 1.55 [KV]
UdetR 1.50 [KV]
UdetI 2.00 [KV]
UdetZ 32.0 [Hz]
ATTEN 2071987.733
ML1 331.189
ML2 0.000
ML3 0.000
HITURBO no
GBON yes
GBONX short
DEFLON no
RLNSND no
LLNSND no
UIS2END no
DPCAL1 510.84
DPMAS 200.00 [Da]
FENVAL 0.38
LNSVAL 0.28
IS2ENDV 0.91
CMT1 TD(E,Linker)MW=2550.8963
CMT2 Attn=328-32, 200 shots



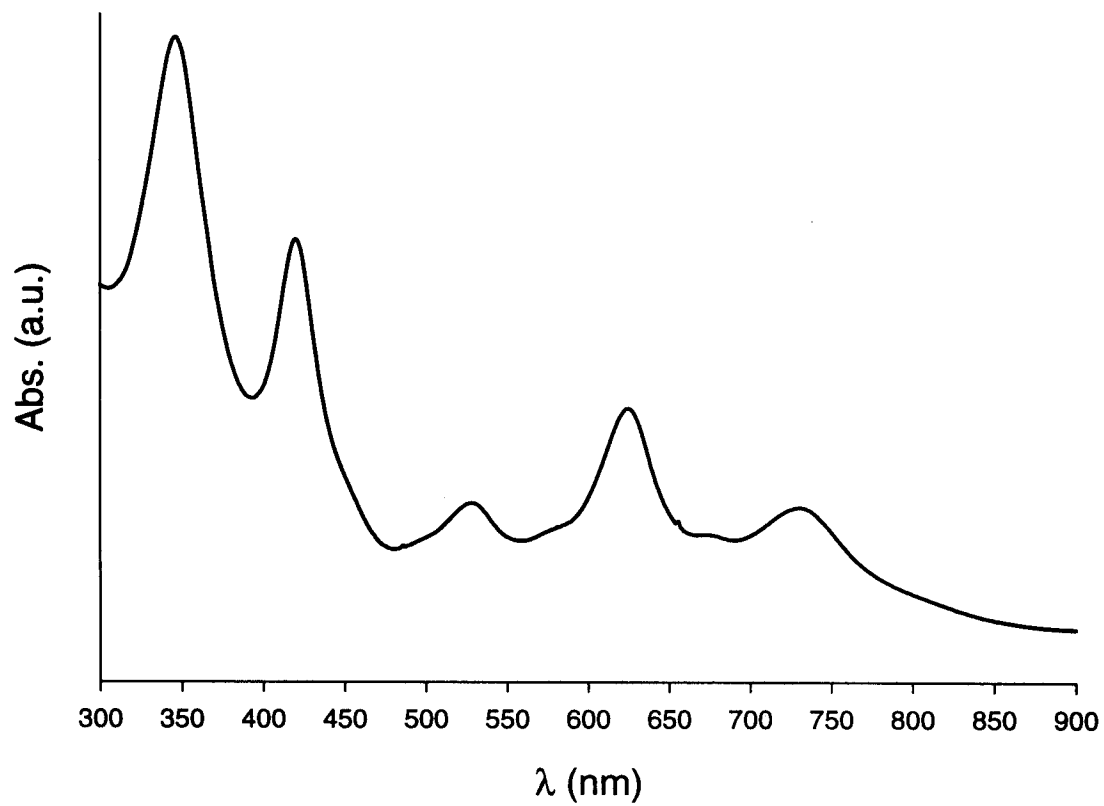
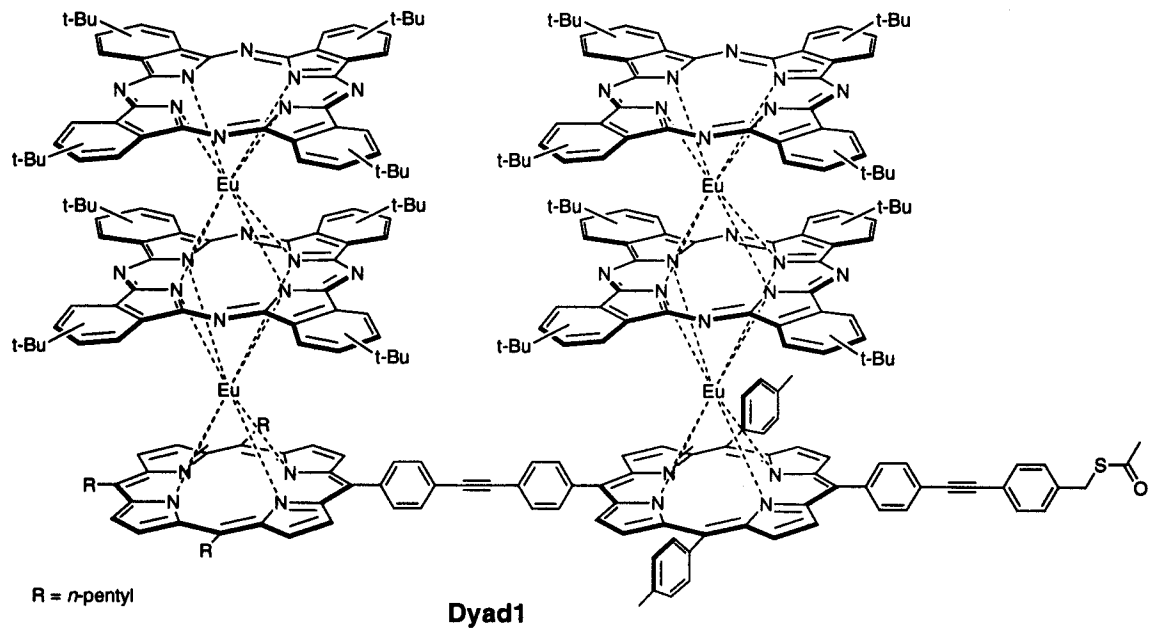


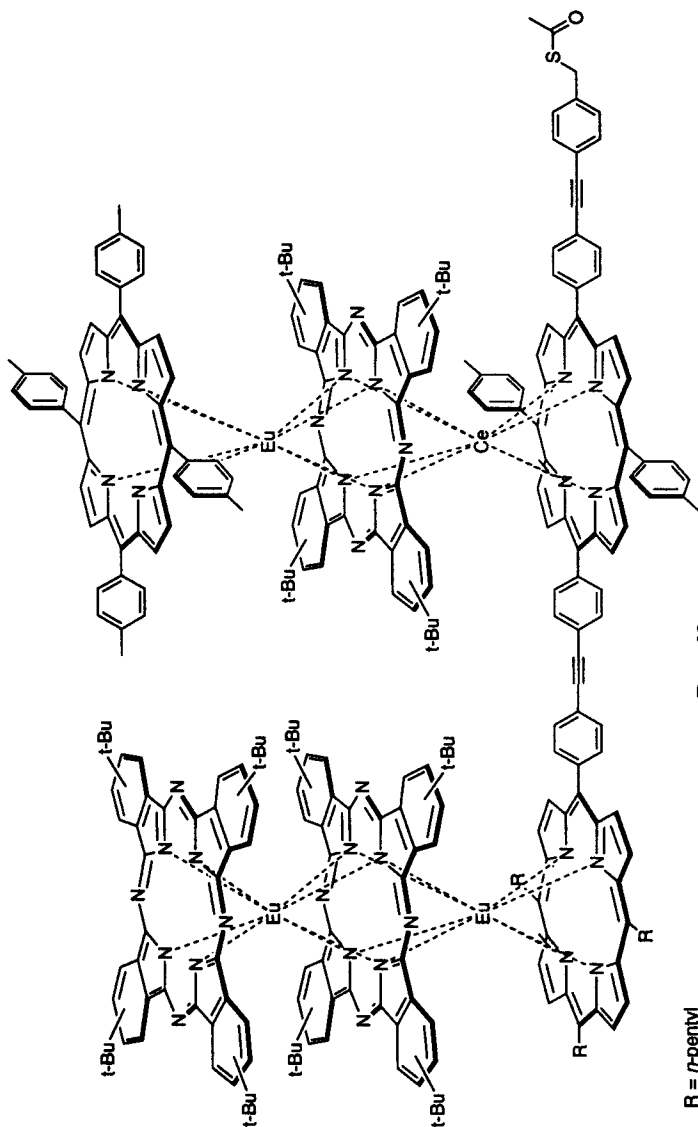
Dyad1

Dyad2

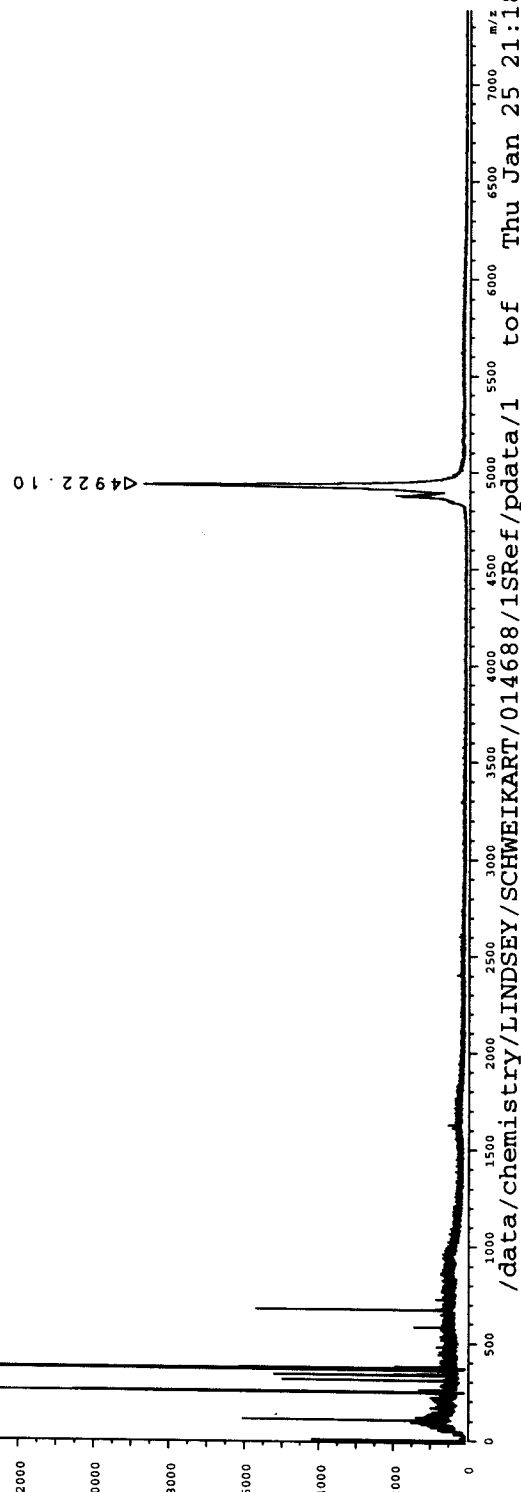
R = *n*-pentyl

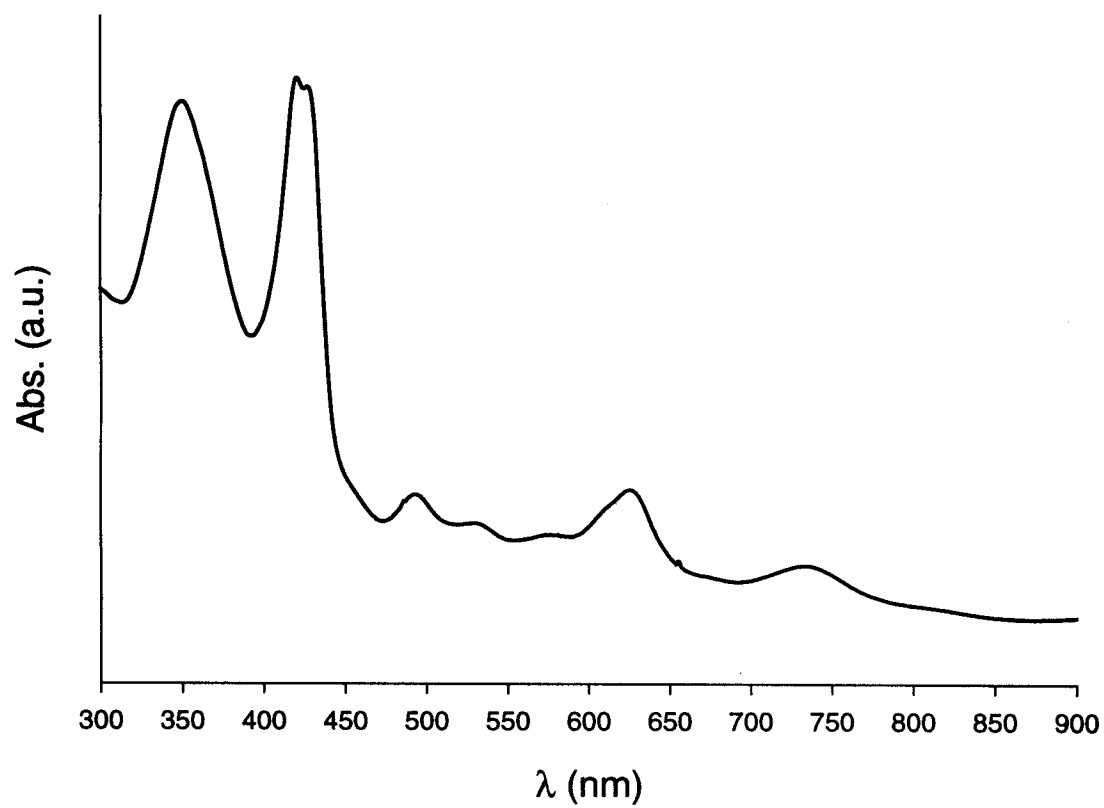
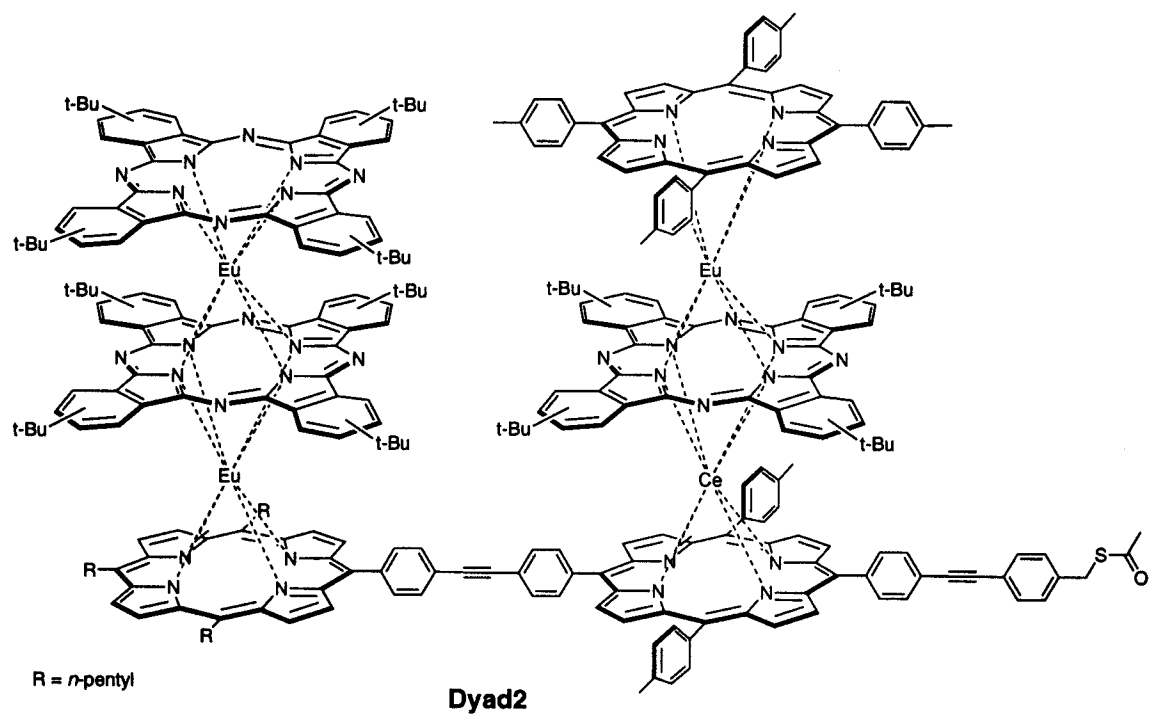
INSTRUM	TOP	Opid	Unknown	SNRMAP	004005	8 14:27:07 2000	data/chemistry/LINDSEY/SCHWEIKART
POBARI	Reflector	POBARI	Reflector	POBARI	Reflector	POBARI	Reflector
TD	60000	TD	60000	TD	60000	TD	60000
NGSHOTS	100	NGSHOTS	100	NGSHOTS	100	NGSHOTS	100
SNRNUM	0	SNRNUM	0	SNRNUM	0	SNRNUM	0
SNRPTS1	0	SNRPTS1	0	SNRPTS1	0	SNRPTS1	0
SNRPTS2	0	SNRPTS2	0	SNRPTS2	0	SNRPTS2	0
DM	1.00	DM	1.00	DM	1.00	DM	1.00
DELAY	0 [ns]	DELAY	0 [ns]	DELAY	0 [ns]	DELAY	0 [ns]
Uls1	20.00	Uls1	20.00	Uls1	20.00	Uls1	20.00
Uls2	18.50	Uls2	18.50	Uls2	18.50	Uls2	18.50
Uls3	17.50	Uls3	17.50	Uls3	17.50	Uls3	17.50
Uls4	7.50	Uls4	7.50	Uls4	7.50	Uls4	7.50
Uls5	10.00	Uls5	10.00	Uls5	10.00	Uls5	10.00
RefFull	0.00	RefFull	0.00	RefFull	0.00	RefFull	0.00
UlsdL1	1.55	UlsdL1	1.55	UlsdL1	1.55	UlsdL1	1.55
UlsdL2	2.00	UlsdL2	2.00	UlsdL2	2.00	UlsdL2	2.00
UlsdL3	2.00	UlsdL3	2.00	UlsdL3	2.00	UlsdL3	2.00
REPZ	1.00	REPZ	1.00	REPZ	1.00	REPZ	1.00
ATTEN	44.0	ATTEN	44.0	ATTEN	44.0	ATTEN	44.0
ML1	207499.747	ML1	207499.747	ML1	207499.747	ML1	207499.747
ML2	353.368	ML2	353.368	ML2	353.368	ML2	353.368
ML3	0.000	ML3	0.000	ML3	0.000	ML3	0.000
INTURBO	no	INTURBO	no	INTURBO	no	INTURBO	no
HIIDRON	yes	HIIDRON	yes	HIIDRON	yes	HIIDRON	yes
GIDELY	short	GIDELY	short	GIDELY	short	GIDELY	short
DEFION	no	DEFION	no	DEFION	no	DEFION	no
RINSRD	no	RINSRD	no	RINSRD	no	RINSRD	no
UlsRD	no	UlsRD	no	UlsRD	no	UlsRD	no
UlsRD2	no	UlsRD2	no	UlsRD2	no	UlsRD2	no
POKCAL1	510.84	POKCAL1	510.84	POKCAL1	510.84	POKCAL1	510.84
DPMS	200.00	DPMS	200.00	DPMS	200.00	DPMS	200.00
RENDVAL	0.33	RENDVAL	0.33	RENDVAL	0.33	RENDVAL	0.33
ENDVAL	0.28	ENDVAL	0.28	ENDVAL	0.28	ENDVAL	0.28
ENDVAL2	0.28	ENDVAL2	0.28	ENDVAL2	0.28	ENDVAL2	0.28
ENDVAL3	0.28	ENDVAL3	0.28	ENDVAL3	0.28	ENDVAL3	0.28
ENDVAL4	0.28	ENDVAL4	0.28	ENDVAL4	0.28	ENDVAL4	0.28
ENDVAL5	0.28	ENDVAL5	0.28	ENDVAL5	0.28	ENDVAL5	0.28
ENDVAL6	0.28	ENDVAL6	0.28	ENDVAL6	0.28	ENDVAL6	0.28
ENDVAL7	0.28	ENDVAL7	0.28	ENDVAL7	0.28	ENDVAL7	0.28
ENDVAL8	0.28	ENDVAL8	0.28	ENDVAL8	0.28	ENDVAL8	0.28
ENDVAL9	0.28	ENDVAL9	0.28	ENDVAL9	0.28	ENDVAL9	0.28
ENDVAL10	0.28	ENDVAL10	0.28	ENDVAL10	0.28	ENDVAL10	0.28
ENDVAL11	0.28	ENDVAL11	0.28	ENDVAL11	0.28	ENDVAL11	0.28
ENDVAL12	0.28	ENDVAL12	0.28	ENDVAL12	0.28	ENDVAL12	0.28
ENDVAL13	0.28	ENDVAL13	0.28	ENDVAL13	0.28	ENDVAL13	0.28
ENDVAL14	0.28	ENDVAL14	0.28	ENDVAL14	0.28	ENDVAL14	0.28
ENDVAL15	0.28	ENDVAL15	0.28	ENDVAL15	0.28	ENDVAL15	0.28
ENDVAL16	0.28	ENDVAL16	0.28	ENDVAL16	0.28	ENDVAL16	0.28
ENDVAL17	0.28	ENDVAL17	0.28	ENDVAL17	0.2		

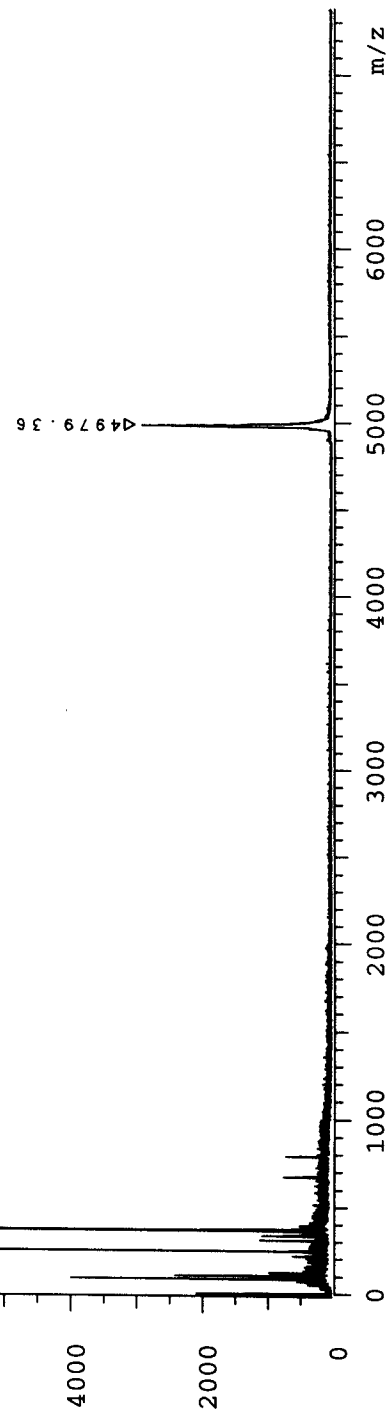
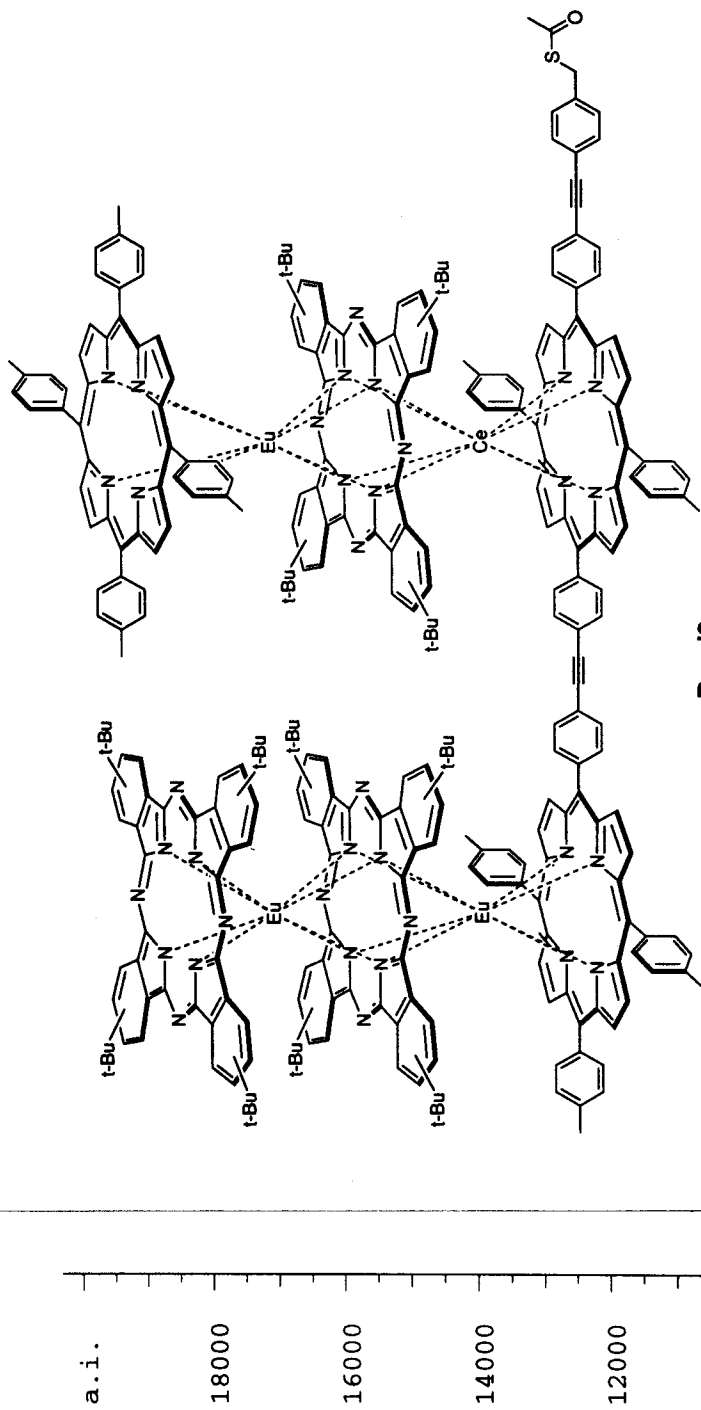




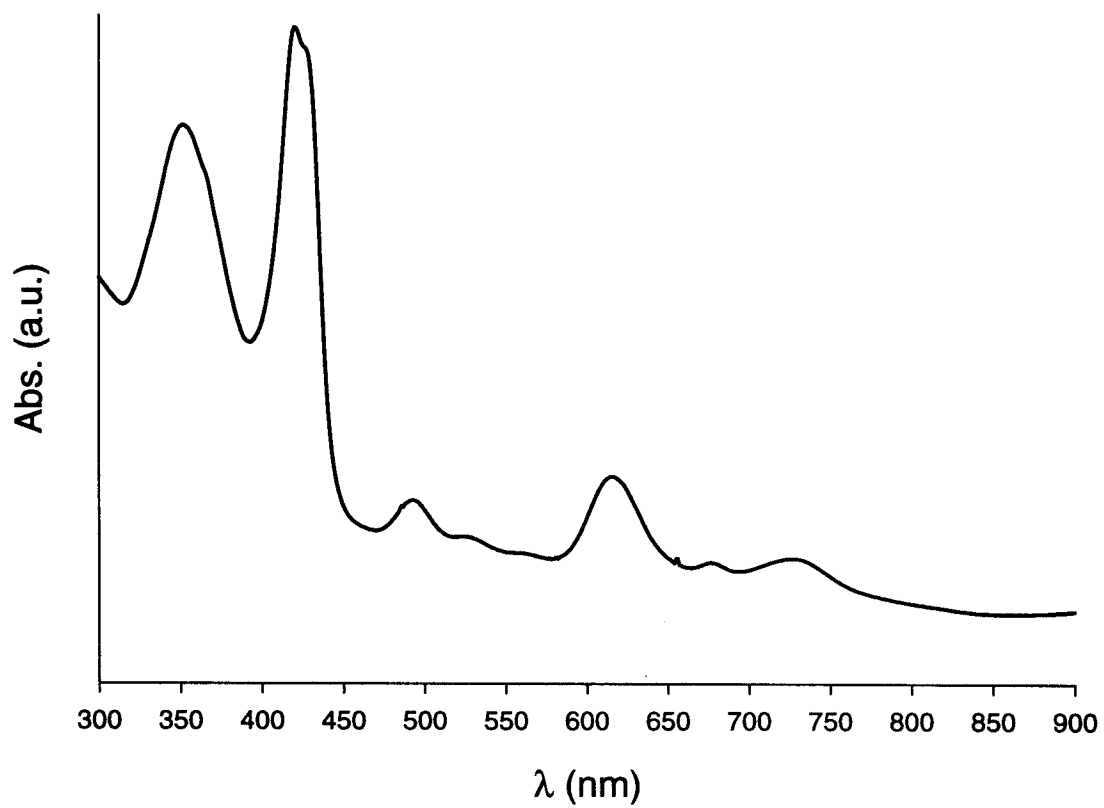
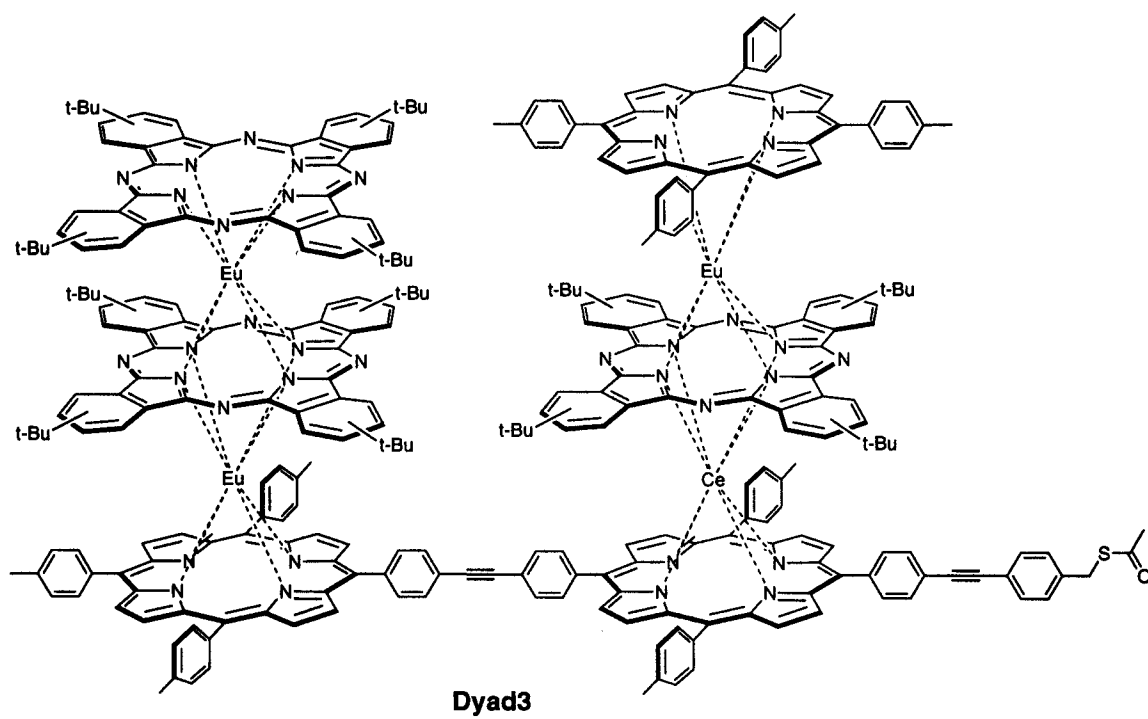
INSTRUM TOP
 OpId Unknown
 SPMNAM 014688
 AC_DATE Thu Jan 25 21:11:09 2001
 PATH C:\data\chemistry\LINDSEY\SCHWEIKART
 POLAR1 0000
 AOPD_m Reflector
 TD 60000
 NO SHOTS 200
 SNOMUM 0
 SNOPFS1 0
 SNOPFS2 0
 SNOPFS3 0
 DM 0
 DELAY 0 [ns]
 UIs1 20.00 [KV]
 UIs2 18.50 [KV]
 Uref1 0.00 [KV]
 UIens 7.50 [KV]
 UImass 10.00 [KV]
 RefPull 0.00 [KV]
 UdetL 1.55 [KV]
 UdetR 0.00 [KV]
 Udef1 2.00 [KV]
 REPHZ 1.00 [Hz]
 ATTN 44.068
 M1 207783.468
 M2 353.368
 M13 0.000
 HITURBO no
 GDEON yes
 GDELY short
 DEFION no
 FASND no
 L1ASND no
 UIs2BND no
 DPCAL1 510.84
 DPMAS 200.00 [Da]
 ERNOVAL 0.33
 LERNOVAL 0.28
 CPMNOV 0.91
 Synthesis 591 (OC3): pure (POPOP)
 CMT2 attn = 44, 200 shots

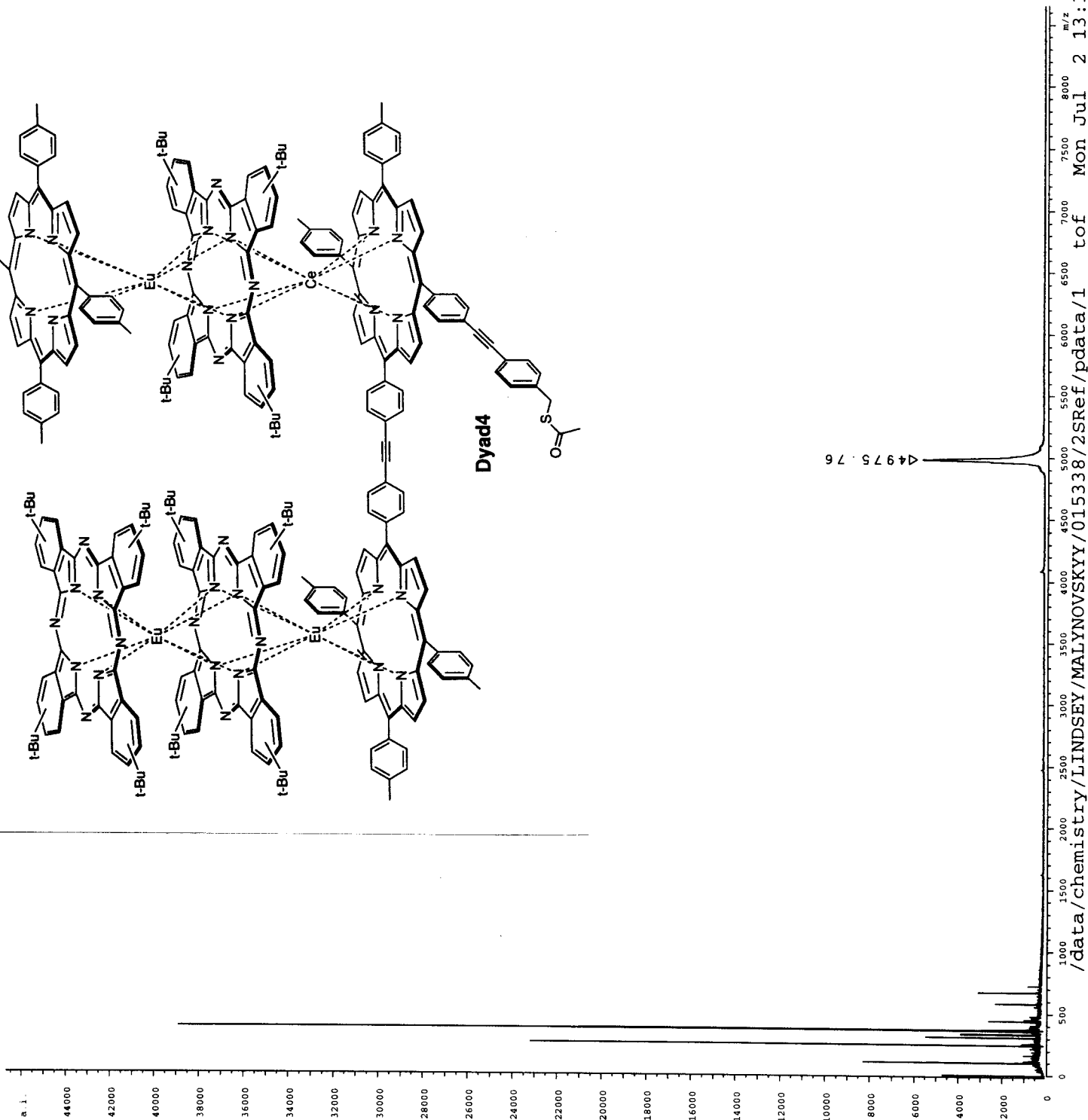
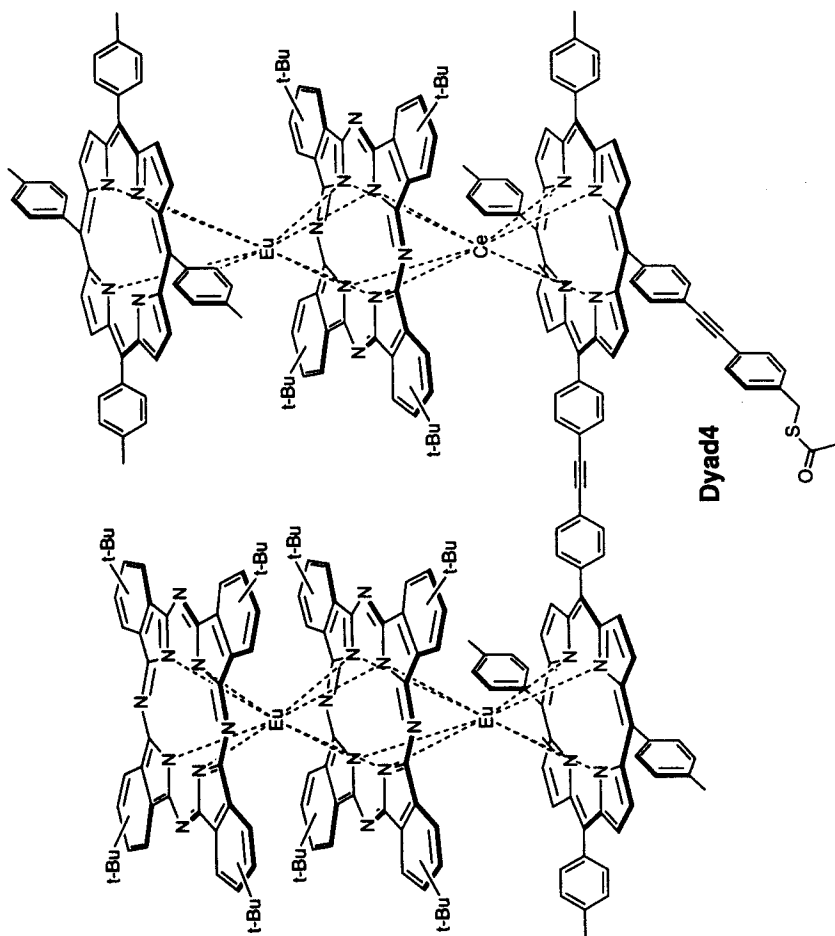




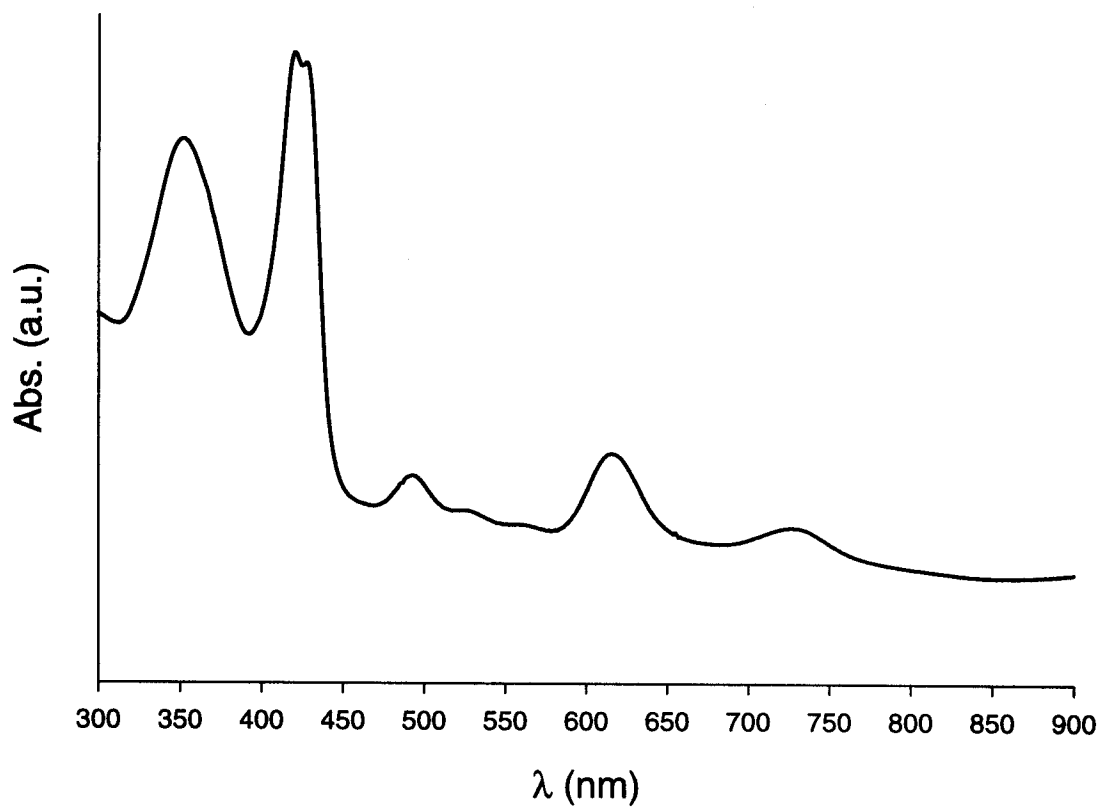
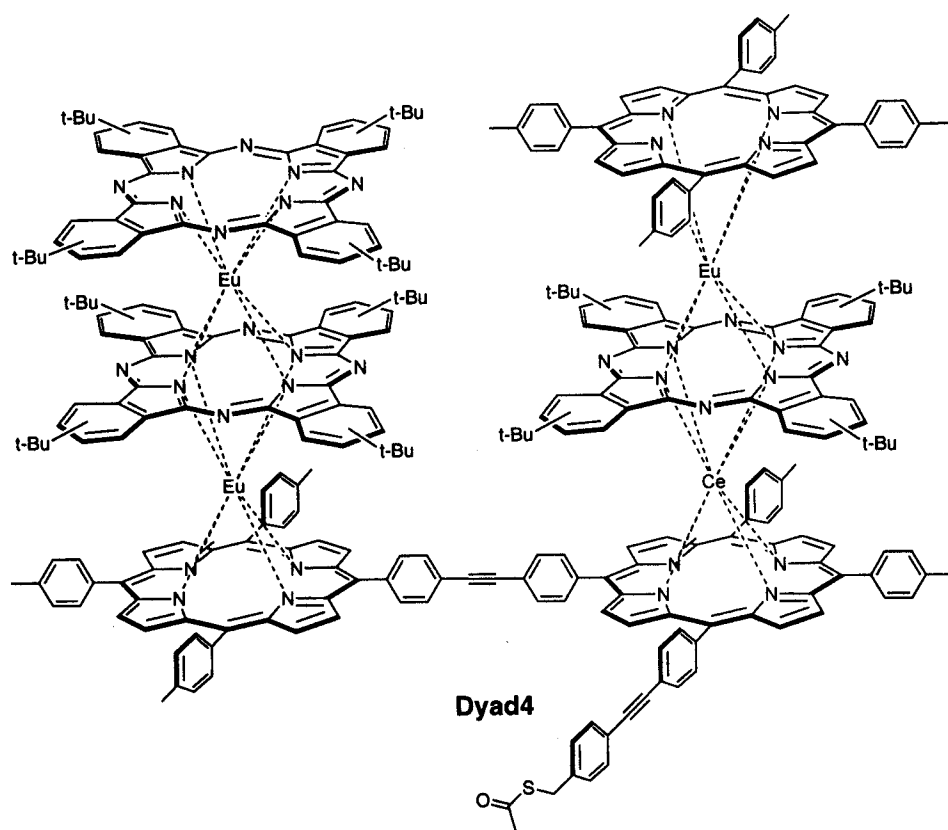


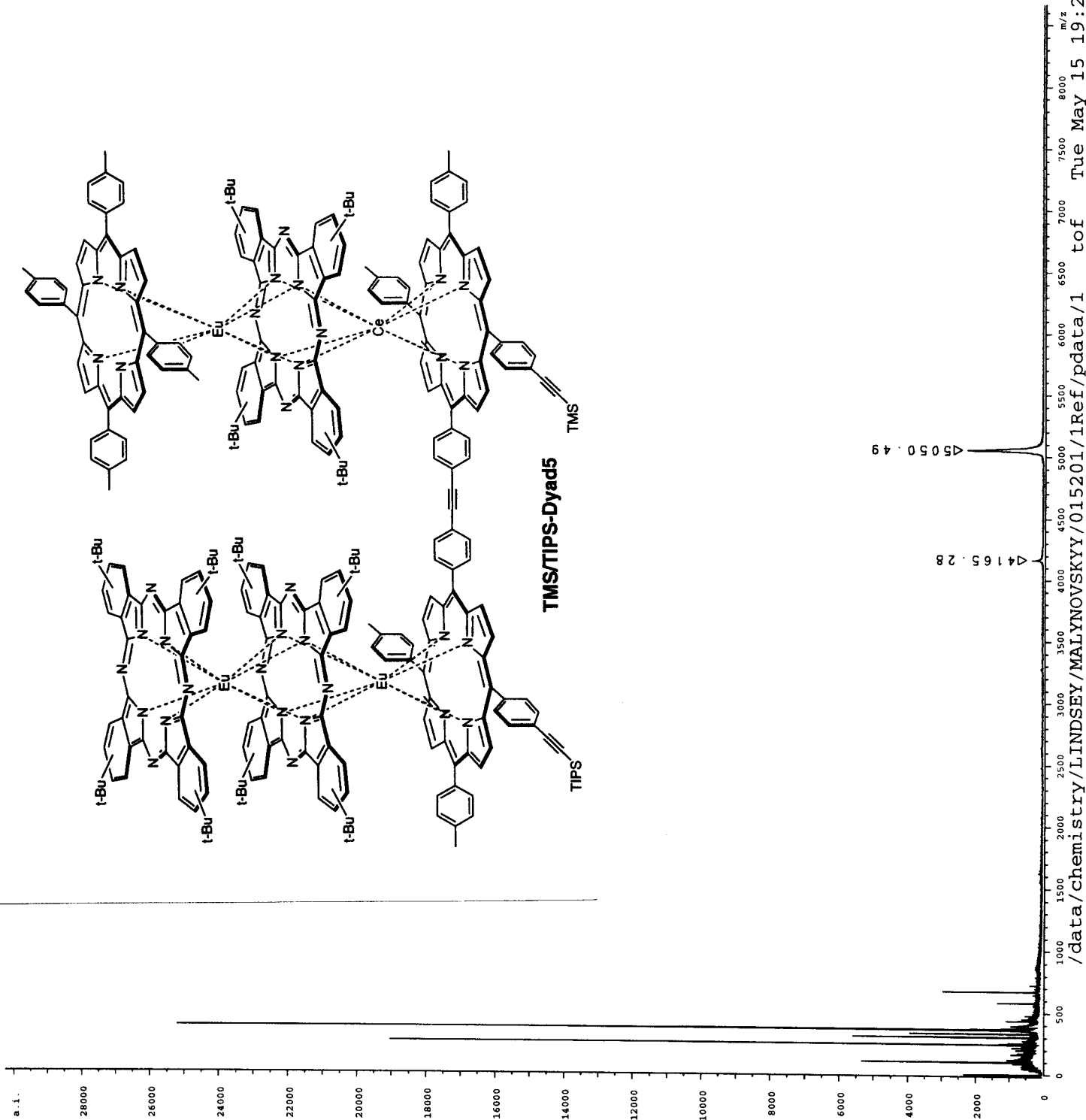
INSTRUN TOP
 OPID Unknown
 SPPNAM 003915
 PREPDATE 28 18:14:07 2000
 PATH /data/chemistry/LINDSEY/SCHWEIKART
 POLARI POS
 AQOP_m Reflector
 TD 60000
 NSHOTS 100
 SNOH1 0
 SNOH2 0
 SNOPTS2 0
 SNOPTS3 0
 DW 1.00 [ns]
 DELAY 0 [ns]
 Uis1 20.00 [KV]
 Uis2 18.50 [KV]
 Uref1 0.00 [KV]
 Uref2 7.50 [KV]
 Unibias 10.00 [KV]
 RefPull 0.00 [KV]
 UdetL 1.55 [KV]
 UdetR 0.00 [KV]
 Udef1 2.00 [KV]
 Udef2 1.00 [KV]
 XPRZ 50.0 [Hz]
 ML1 2074037.608
 ML2 323.644
 ML3 0.000
 HITURBO no
 GDEON yes
 GDELY short
 GDELY no
 RANSND no
 LINSND no
 UIS2END no
 DPCAL1 510.84
 DPMAS 200.00 [Da]
 REMOVAL 0.33
 IS2END 0.91
 CMT1 Synthesis 43 (OC1): after prep. TLC (POPOP)
 CMT2 attn = 50, 100 shots



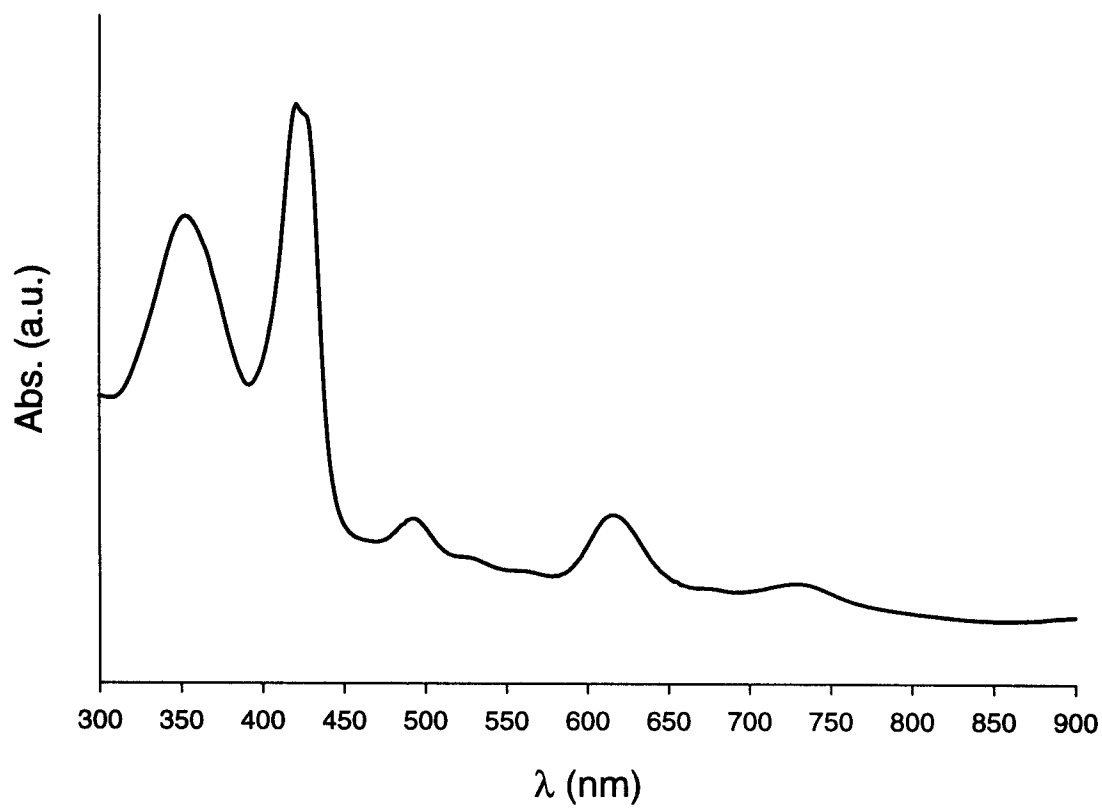
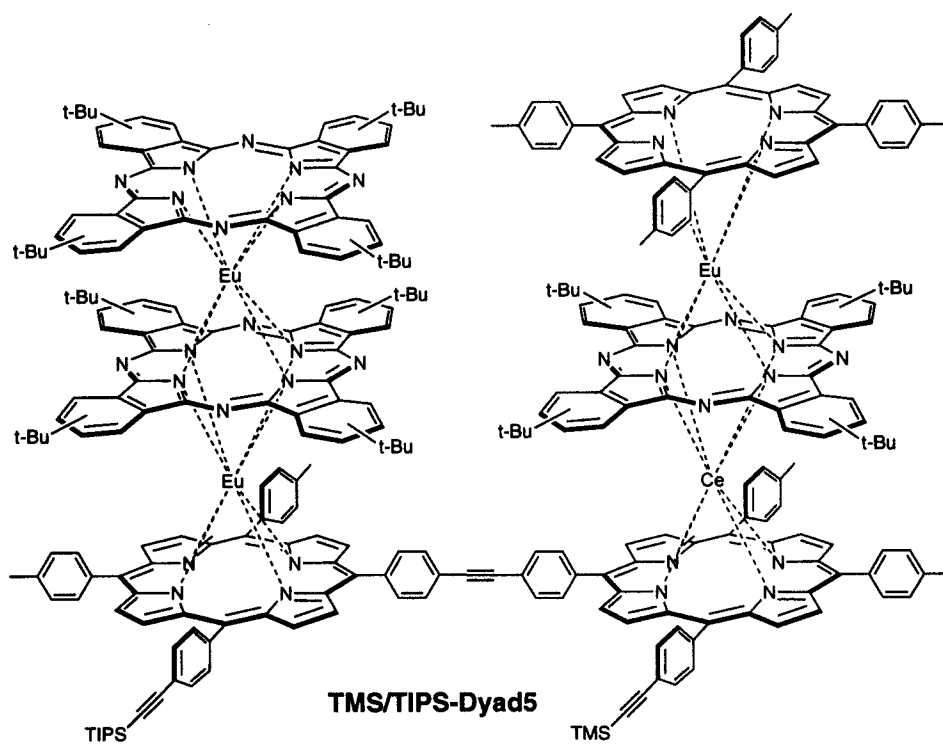


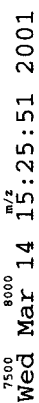
INSTRUM TOP
OpId N. Srinivasan
SMPNAM 015338
AQ DATE Mon Jul 2 12:16:06 2001
Acq/chemistry/LINDSEY/MALYNOSKY
POLARI POS
AOP_m Reflector
TD 65000
NOSHOTS 200
SHOTPS1 0
SHOTPS2 0
SHOTPS3 0
DW 1.00 [ns]
DELAY 0 [ns]
Uis1 20.00 [KV]
Uis2 18.70 [KV]
Uret1 0.00 [KV]
Uret2 0.00 [KV]
Uisens 10.00 [KV]
RefFull 0.00 [KV]
Udet1 1.50 [KV]
Udet2 1.50 [KV]
Udet3 2.00 [KV]
REFPHZ 1.00 [Hz]
ATTEN 40.00
ML1 207240.962
ML2 344.316
ML3 0.000
HITURBO no
GDBON yes
GDELY short
GDELY no
BLAND no
BLAND no
LANSND no
UIS2END no
DPCAL1 510.84
DPMAS 700.00 [Da]
RENOVAL 0.33
RENOVAL 0.33
RENOVAL 0.33
CMT2 Dimer(mono-t)MW=4981.5055
POPPOP, att=48



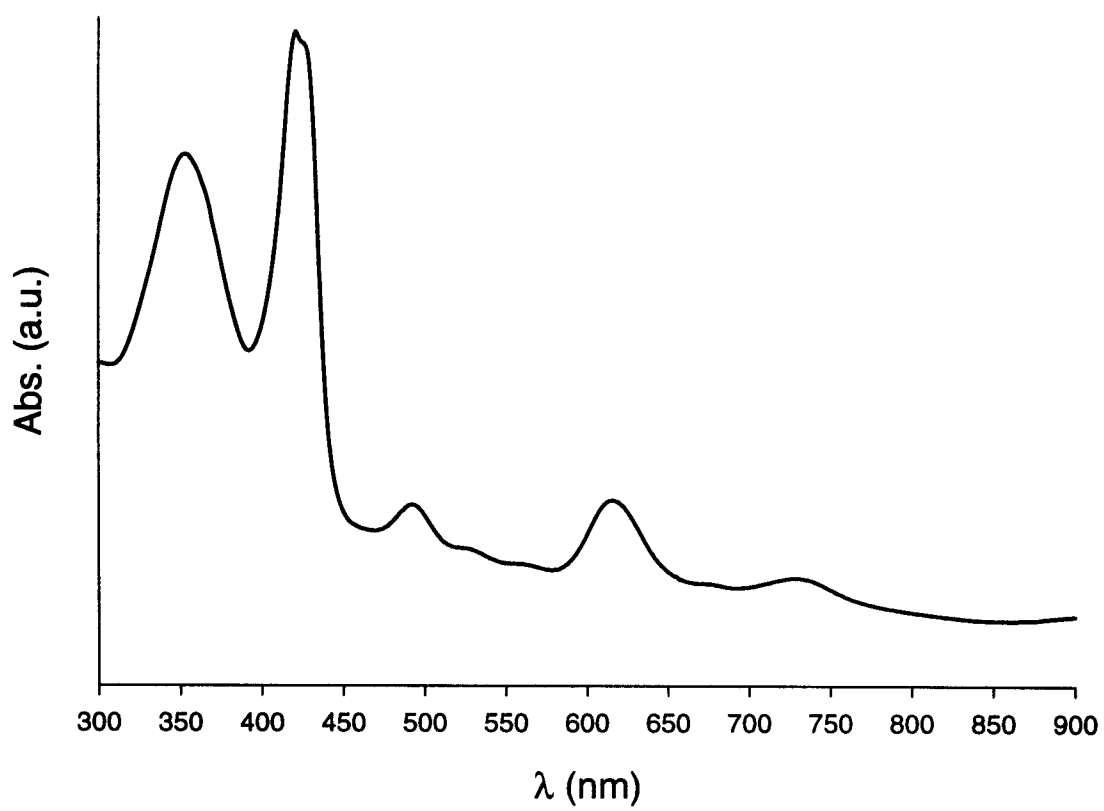
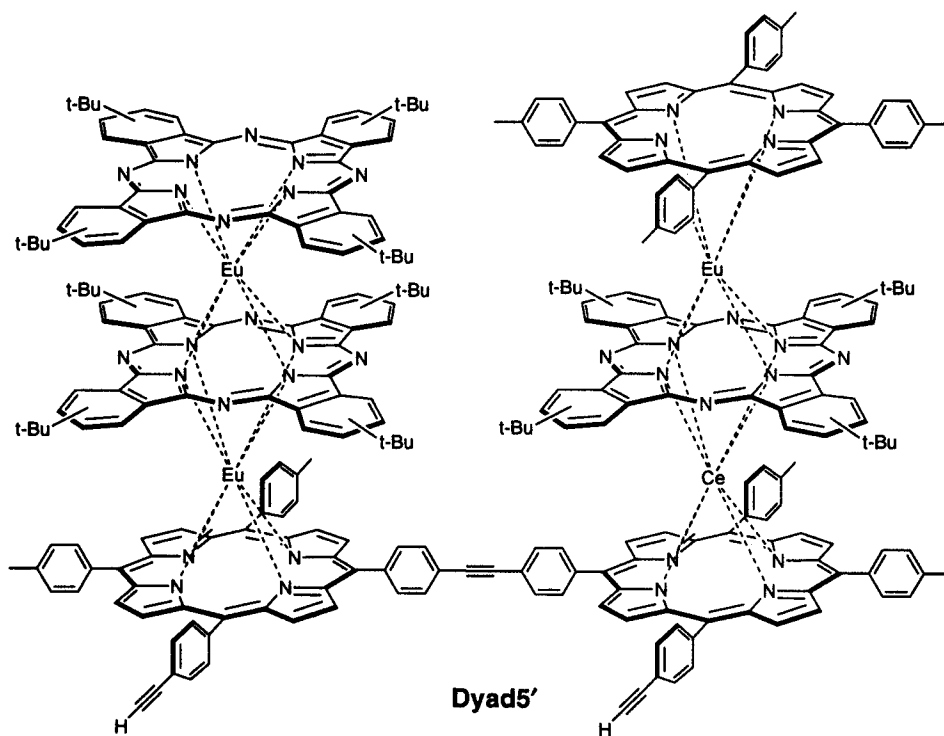


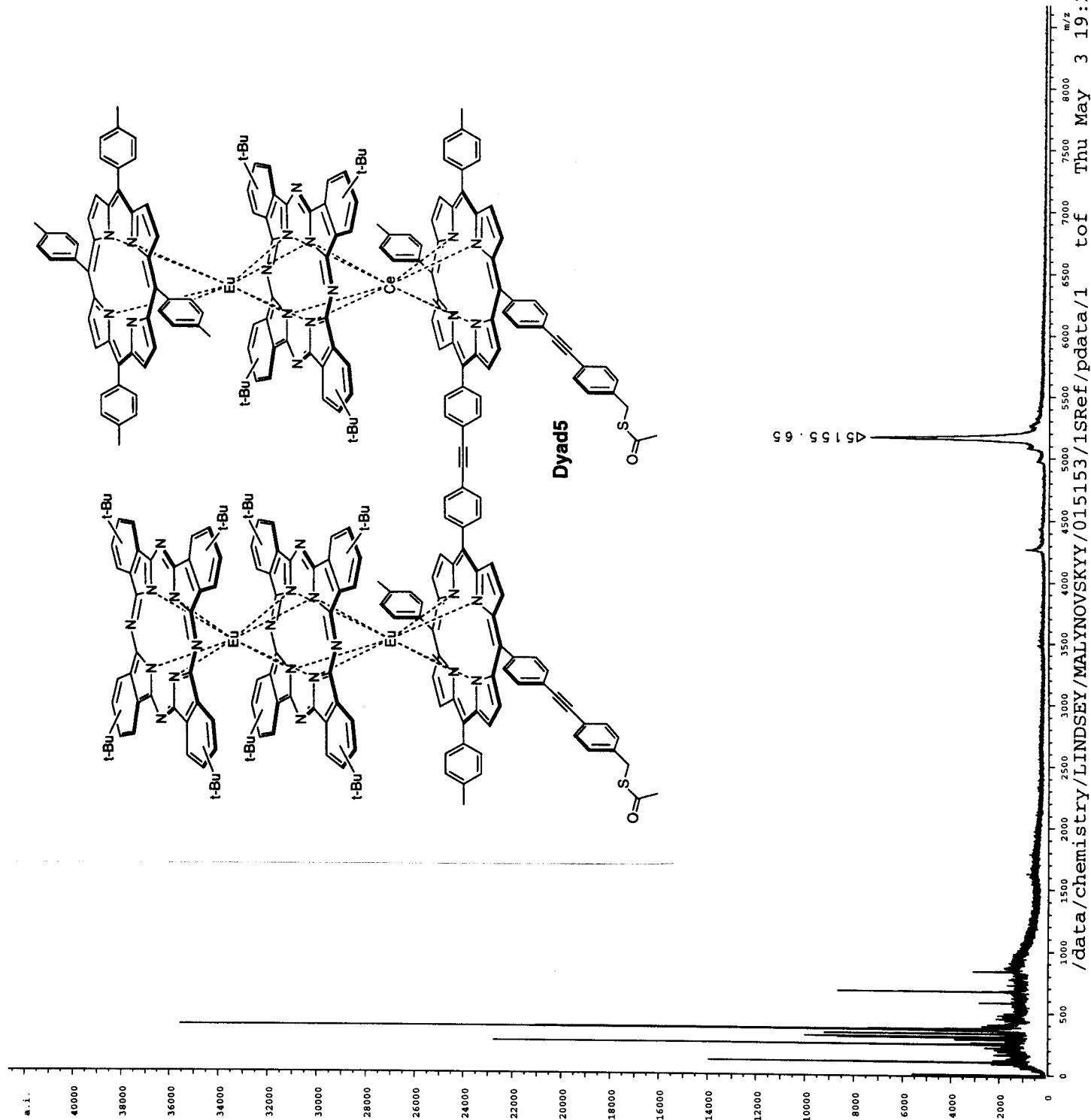
INSTRUM TOP
OpId N. Srinivasan
SMPNAM 015201
QDATE Tue May 15 18:11:11 2001
POLARI POS
AOP m Reflector
TD 65000
NOSHOTS 100
SHOTS1 0
SHOTS2 0
SHOTS3 0
DM 1.00 [ms]
DELAY 0 [ms]
Uis1 20.00 [KV]
Uis2 18.70 [KV]
Uref1 0.00 [KV]
Uref2 0.00 [KV]
Uis3 10.00 [KV]
RefPull 10.00 [KV]
Udet1 1.50 [KV]
Udet2 0.00 [KV]
Udef1 2.00 [KV]
REPHZ 1.00 [Hz]
ATTEN 42.391
ML1 2074762.391
ML2 344.656
ML3 0.000
HITURBO no
GDEON yes
GDELY short
REFLON no
REFLND no
LANSND no
UIS2END no
DFCAL1 510.84
DPMAS 700.00 [Da]
RENOVAL 0.33
RENOVAL 0.33
RENOVAL 0.33
RENOVAL 0.33
CMT1 dyad1(tms tips)
CMT2 atth = 42, shot = 100





INSTRUM	TOP	Qpid	Unknown	SHPMAN	AD_DATE	Wed Mar 14 15:22:02 2001	AD_PATH	/data/chemistry/LINDSEY/MALYNOSE/KSKY	POLARI	POS	Reflector	TD	65000	NGSHOTS	50	SHONUM	0	SNOUTS1	0	SNOUTS2	0	SNOUTS3	0	DW	1.00	[ns]	DELAY	0	[ns]	U1a1	20.00	[KV]	U1a2	18.50	[KV]	U1a3	17.50	[KV]	U1a4	7.50	[KV]	U1a5	10.00	[KV]	U1a6	10.00	[KV]	U1a7	10.00	[KV]	U1a8	1.55	[KV]	U1a9	2.00	[KV]	U1a10	2.00	[KV]	U1a11	1.00	[Hz]	ATTEN	30.0	207377.934	MU1	375.669	MU2	0.000	HITURBO	no	GDEON	yes	GDEEDLY	short	HLASND	no	HLASND2	no	HLASND3	no	U1SZEND	no	DPCAL1	510.84	DPMAS	200.00	[Da]	RENDVAL	0.33	RENDVAL2	0.33	RENDVAL3	0.33	RENDVAL4	0.33	RENDVAL5	0.33	RENDVAL6	0.33	RENDVAL7	0.33	RENDVAL8	0.33	RENDVAL9	0.33	RENDVAL10	0.33	RENDVAL11	0.33	RENDVAL12	0.33	RENDVAL13	0.33	RENDVAL14	0.33	RENDVAL15	0.33	RENDVAL16	0.33	RENDVAL17	0.33	RENDVAL18	0.33	RENDVAL19	0.33	RENDVAL20	0.33	RENDVAL21	0.33	RENDVAL22	0.33	RENDVAL23	0.33	RENDVAL24	0.33	RENDVAL25	0.33	RENDVAL26	0.33	RENDVAL27	0.33	RENDVAL28	0.33	RENDVAL29	0.33	RENDVAL30	0.33	RENDVAL31	0.33	RENDVAL32	0.33	RENDVAL33	0.33	RENDVAL34	0.33	RENDVAL35	0.33	RENDVAL36	0.33	RENDVAL37	0.33	RENDVAL38	0.33	RENDVAL39	0.33	RENDVAL40	0.33	RENDVAL41	0.33	RENDVAL42	0.33	RENDVAL43	0.33	RENDVAL44	0.33	RENDVAL45	0.33	RENDVAL46	0.33	RENDVAL47	0.33	RENDVAL48	0.33	RENDVAL49	0.33	RENDVAL50	0.33	RENDVAL51	0.33	RENDVAL52	0.33	RENDVAL53	0.33	RENDVAL54	0.33	RENDVAL55	0.33	RENDVAL56	0.33	RENDVAL57	0.33	RENDVAL58	0.33	RENDVAL59	0.33	RENDVAL60	0.33	RENDVAL61	0.33	RENDVAL62	0.33	RENDVAL63	0.33	RENDVAL64	0.33	RENDVAL65	0.33	RENDVAL66	0.33	RENDVAL67	0.33	RENDVAL68	0.33	RENDVAL69	0.33	RENDVAL70	0.33	RENDVAL71	0.33	RENDVAL72	0.33	RENDVAL73	0.33	RENDVAL74	0.33	RENDVAL75	0.33	RENDVAL76	0.33	RENDVAL77	0.33	RENDVAL78	0.33	RENDVAL79	0.33	RENDVAL80	0.33	RENDVAL81	0.33	RENDVAL82	0.33	RENDVAL83	0.33	RENDVAL84	0.33	RENDVAL85	0.33	RENDVAL86	0.33	RENDVAL87	0.33	RENDVAL88	0.33	RENDVAL89	0.33	RENDVAL90	0.33	RENDVAL91	0.33	RENDVAL92	0.33	RENDVAL93	0.33	RENDVAL94	0.33	RENDVAL95	0.33	RENDVAL96	0.33	RENDVAL97	0.33	RENDVAL98	0.33	RENDVAL99	0.33	RENDVAL100	0.33	RENDVAL101	0.33	RENDVAL102	0.33	RENDVAL103	0.33	RENDVAL104	0.33	RENDVAL105	0.33	RENDVAL106	0.33	RENDVAL107	0.33	RENDVAL108	0.33	RENDVAL109	0.33	RENDVAL110	0.33	RENDVAL111	0.33	RENDVAL112	0.33	RENDVAL113	0.33	RENDVAL114	0.33	RENDVAL115	0.33	RENDVAL116	0.33	RENDVAL117	0.33	RENDVAL118	0.33	RENDVAL119	0.33	RENDVAL120	0.33	RENDVAL121	0.33	RENDVAL122	0.33	RENDVAL123	0.33	RENDVAL124	0.33	RENDVAL125	0.33	RENDVAL126	0.33	RENDVAL127	0.33	RENDVAL128	0.33	RENDVAL129	0.33	RENDVAL130	0.33	RENDVAL131	0.33	RENDVAL132	0.33	RENDVAL133	0.33	RENDVAL134	0.33	RENDVAL135	0.33	RENDVAL136	0.33	RENDVAL137	0.33	RENDVAL138	0.33	RENDVAL139	0.33	RENDVAL140	0.33	RENDVAL141	0.33	RENDVAL142	0.33	RENDVAL143	0.33	RENDVAL144	0.33	RENDVAL145	0.33	RENDVAL146	0.33	RENDVAL147	0.33	RENDVAL148	0.33	RENDVAL149	0.33	RENDVAL150	0.33	RENDVAL151	0.33	RENDVAL152	0.33	RENDVAL153	0.33	RENDVAL154	
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INSTRUM TOP
 OpId Unknown
 SMPNAM 015153
 ACQ_DATE Thu May 3 19:23:59 2001
 PATH /data/chemistry/LINDSEY/MALYNOSKY
 DATA 015153
 ACQ_P1 Reflector
 TD 65000
 NGSHOTS 200
 SNORM 0
 SMOPTS1 0
 SMOPTS2 0
 SMOPTS3 0
 DELAY 0 [ms]
 Uis1 20.00 [kV]
 Uis2 18.50 [kV]
 Uref1 0.00 [kV]
 Uens 7.50 [kV]
 Utrans 10.00 [kV]
 Udef1 0.00 [kV]
 Udef2 1.55 [kV]
 Udef3 0.00 [kV]
 Udef4 2.00 [kV]
 REPH2 1.00 [Hz]
 ATTN 49.0
 MW1 2076511.911
 MW2 300.046
 MW3 0.000
 HITURED no
 GIBCON yes
 GIBLY short
 DEFCON no
 FLASCON no
 FLASND no
 UIS2END no
 DPCALI 510.84
 DPMAS 200.00 [Da]
 REMVAL 0.33
 LENDVAL 0.28
 IS2ENDV 0.91
 CM1 D(L,L)
 CM2 popsp, attn 49, 200shots

