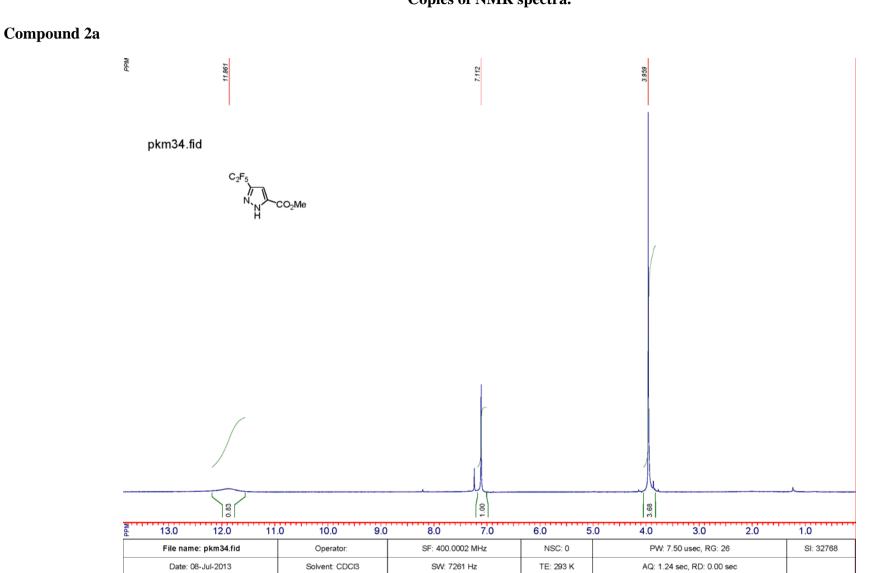
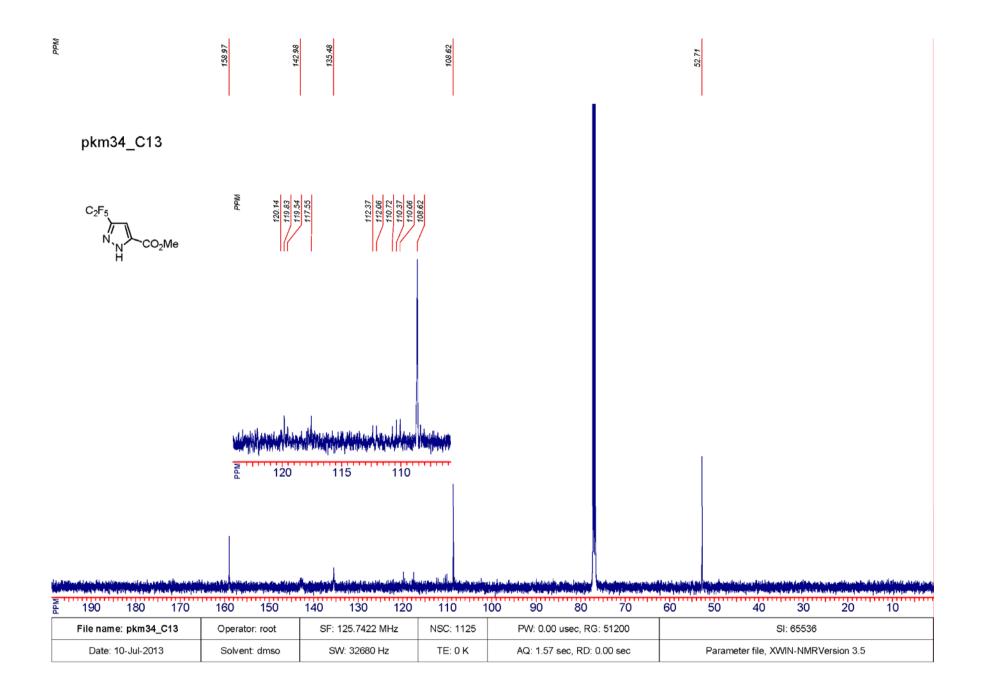
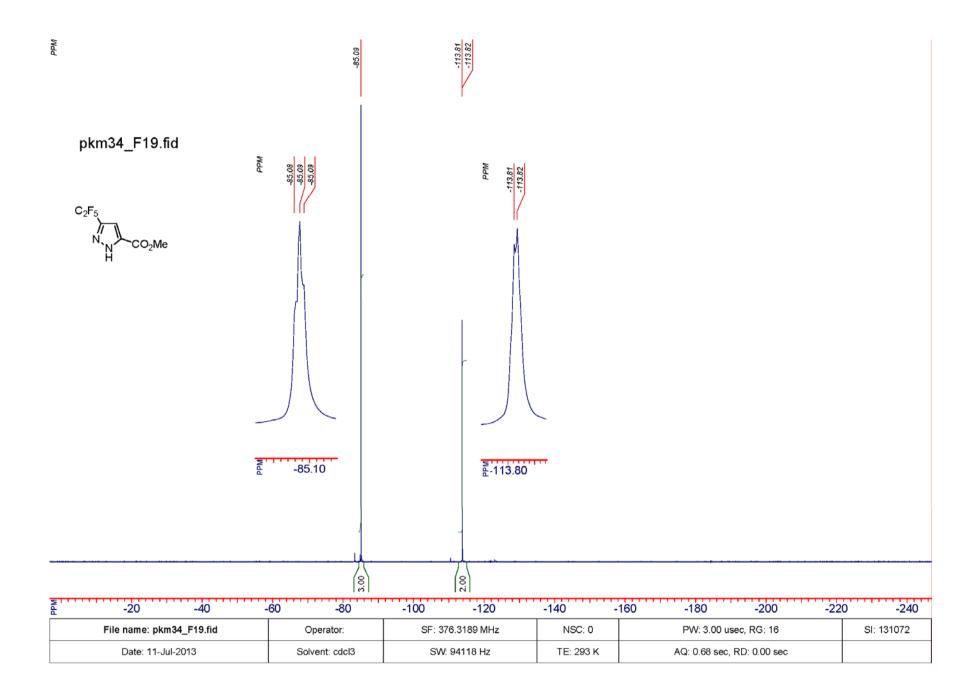
Electronic Supplementary Material (ESI) for Organic & Biomolecular Chemistry. This journal is © The Royal Society of Chemistry 2015

Supporting Information

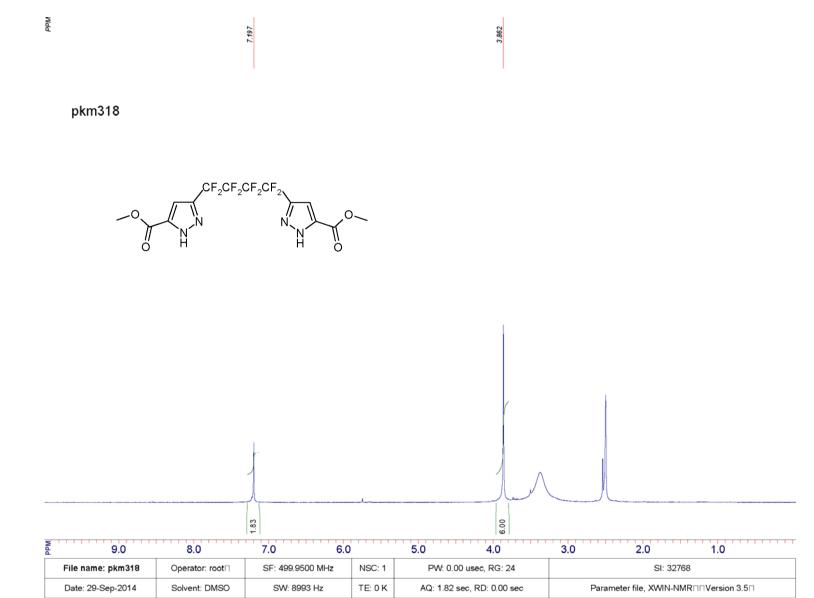


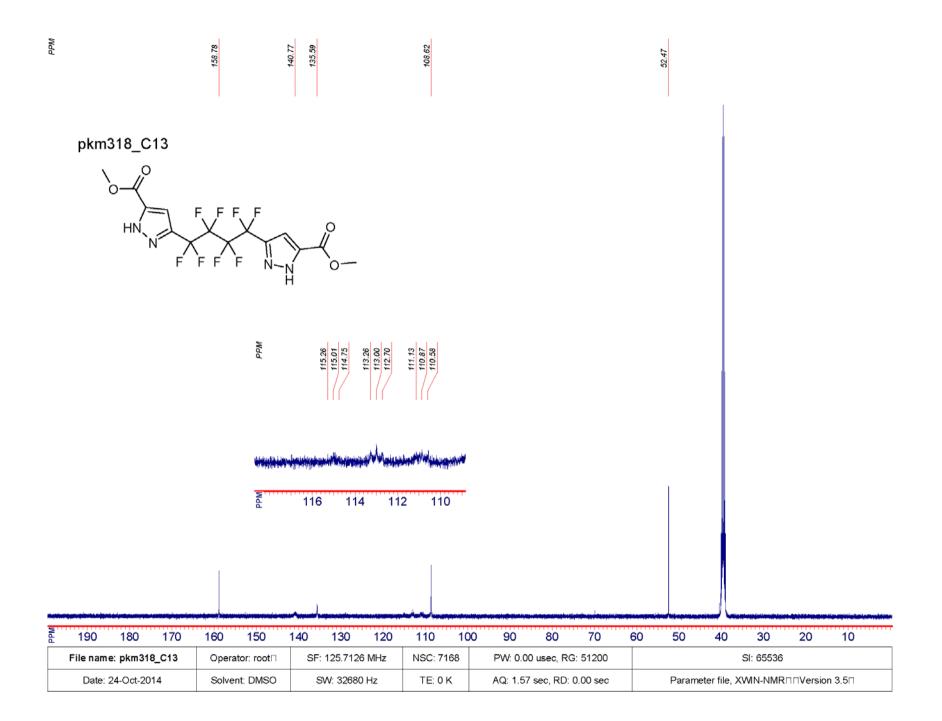
Copies of NMR spectra.



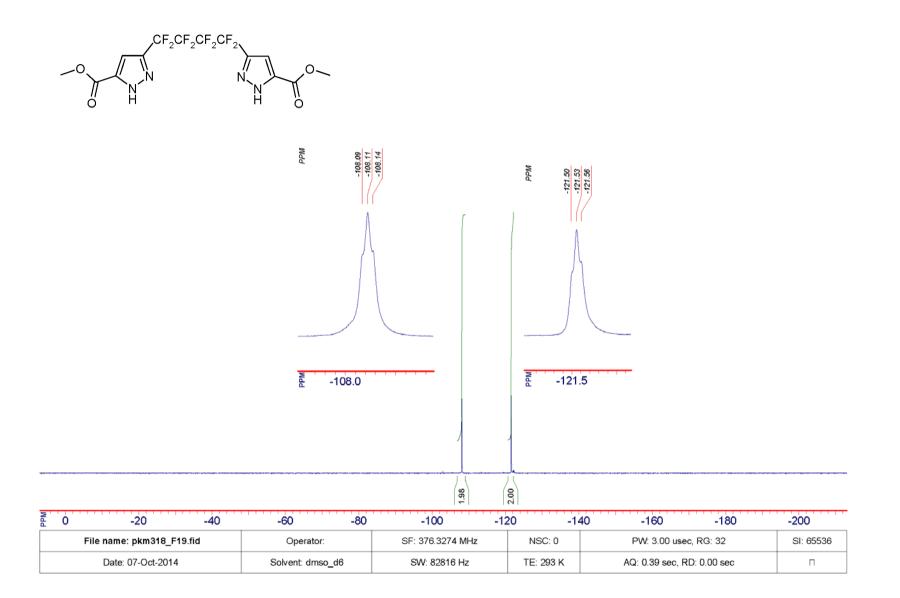


Compound 3a

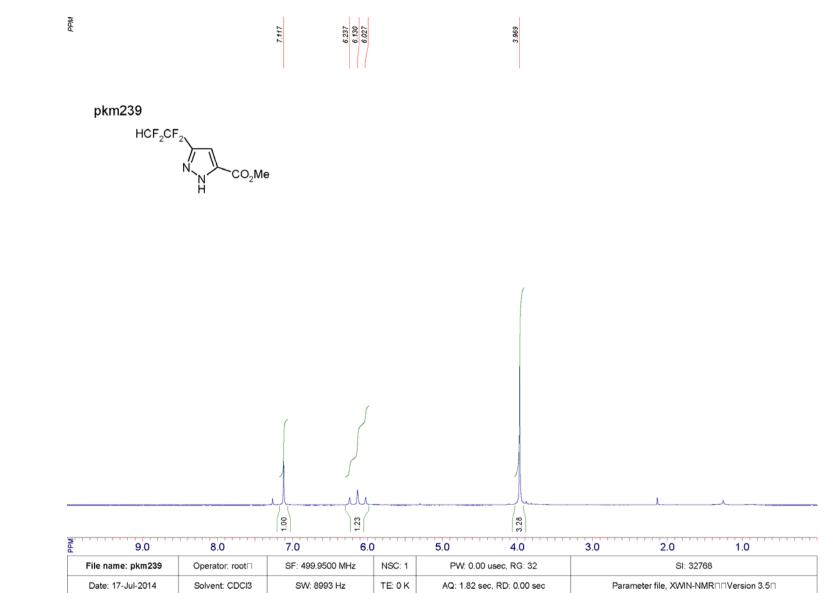




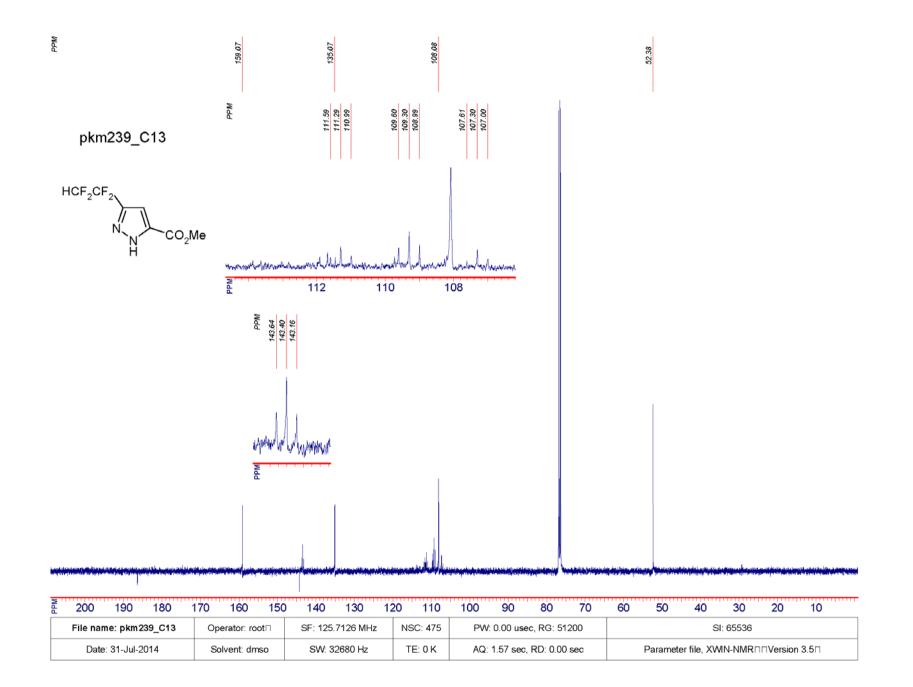
pkm318_F19.fid

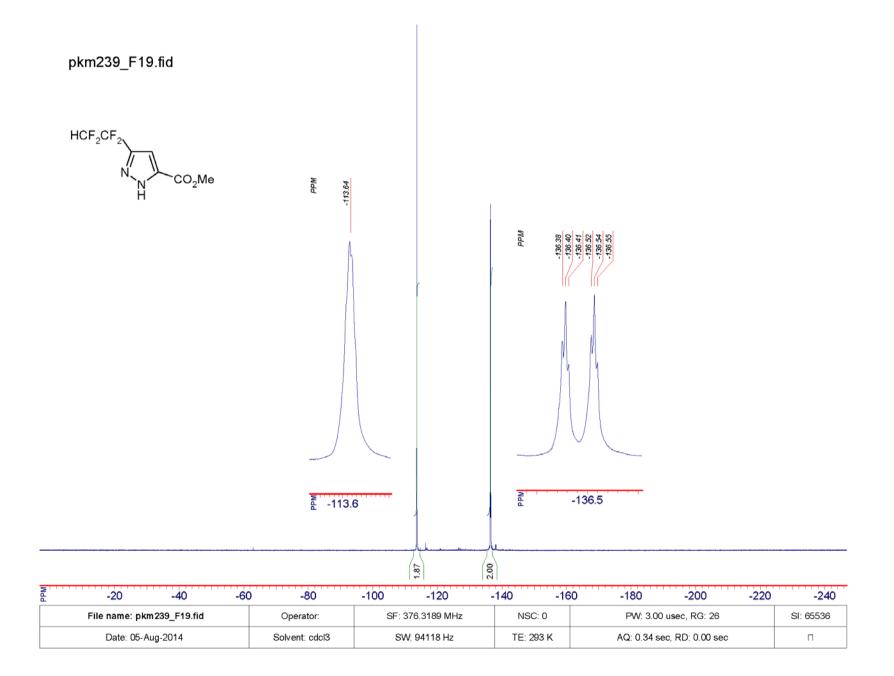


Compound 4a

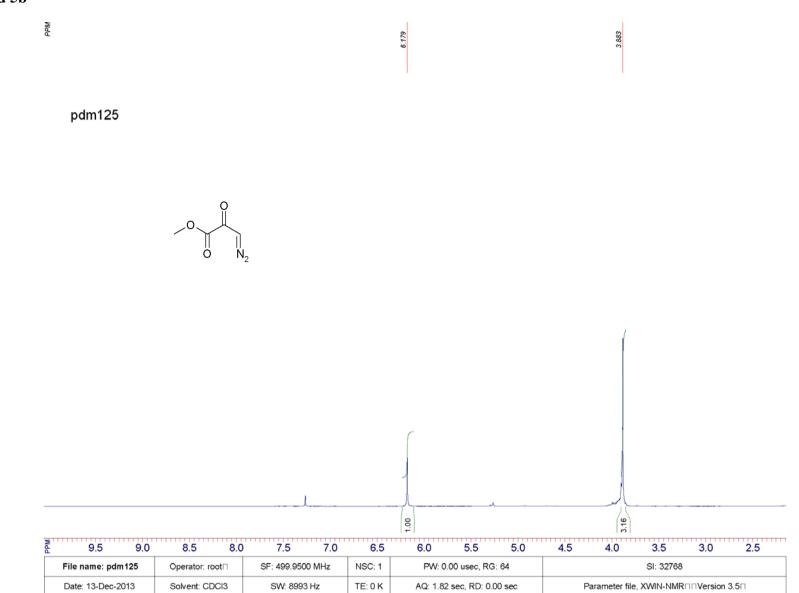


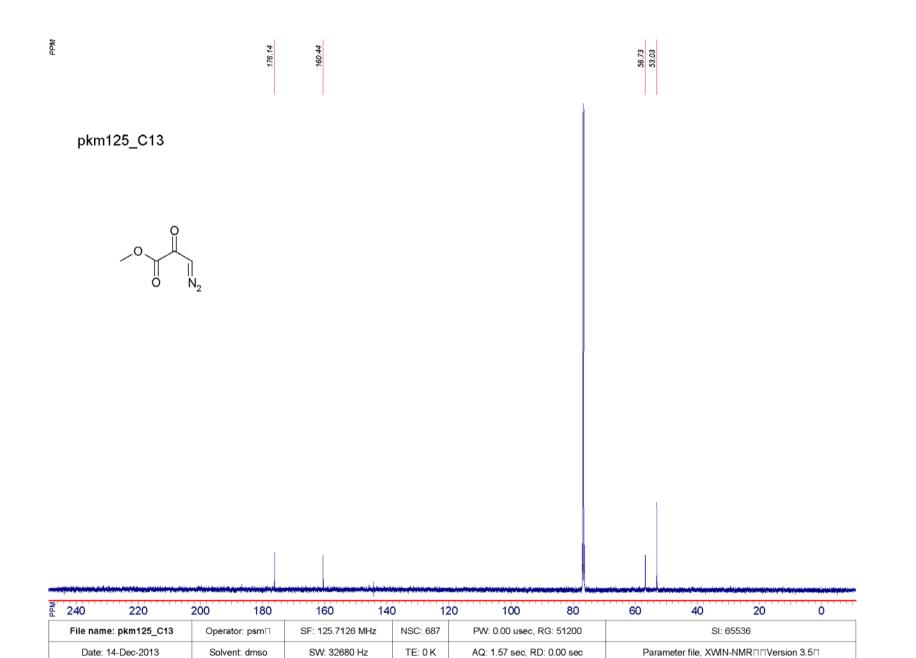
7











|--|

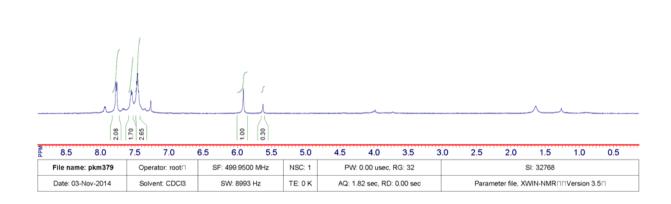
Compound 6b (ca. 90% purity)

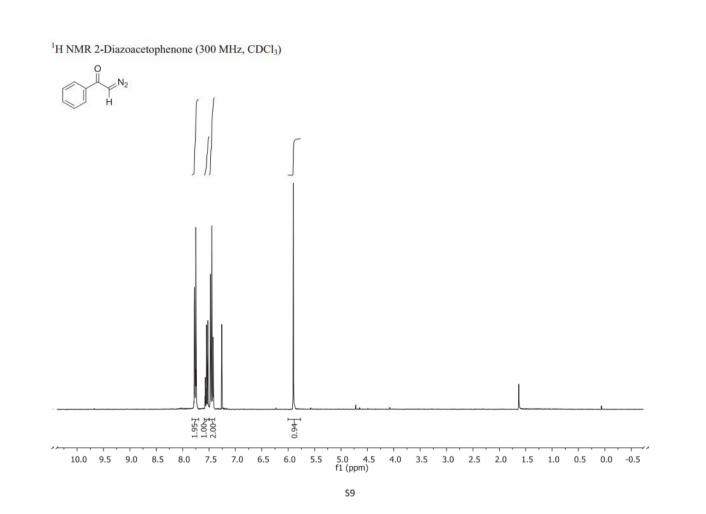


pkm379



ca. 80% purity





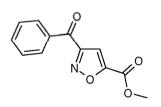
¹ S. P. Bew, P.-A. Ashford, D. U. Bachera Synthesis 2013, 45, 903.

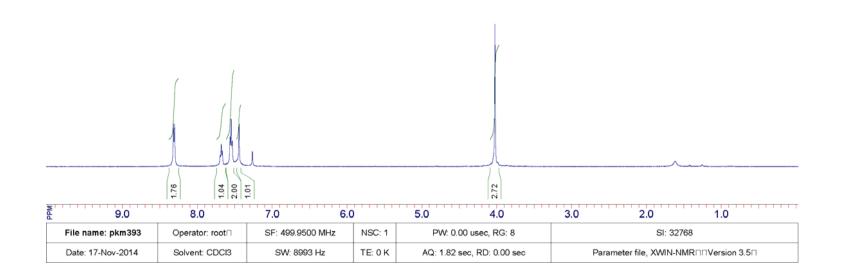
Compound 6c

Мdd

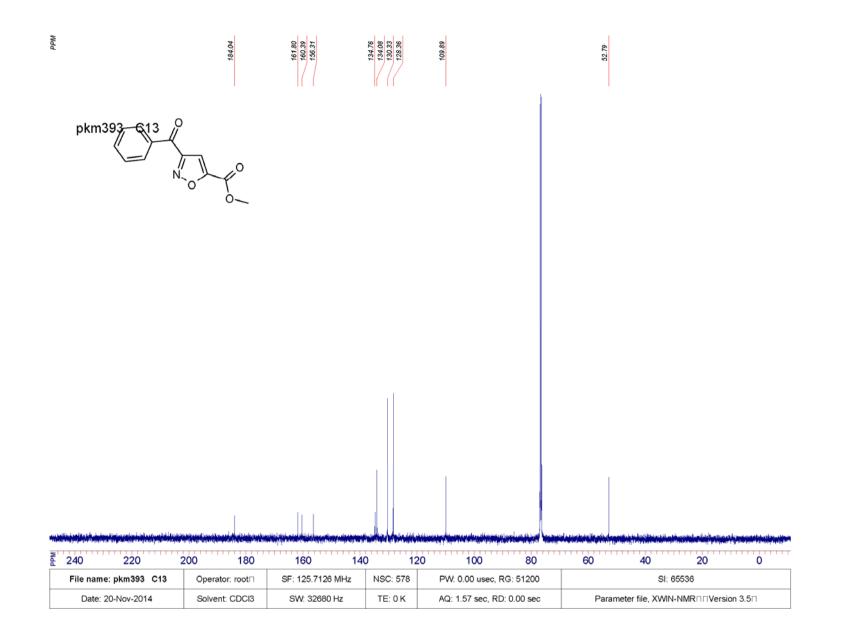


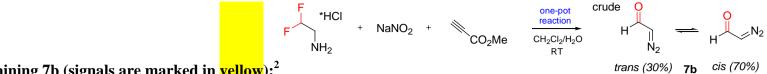
pkm393



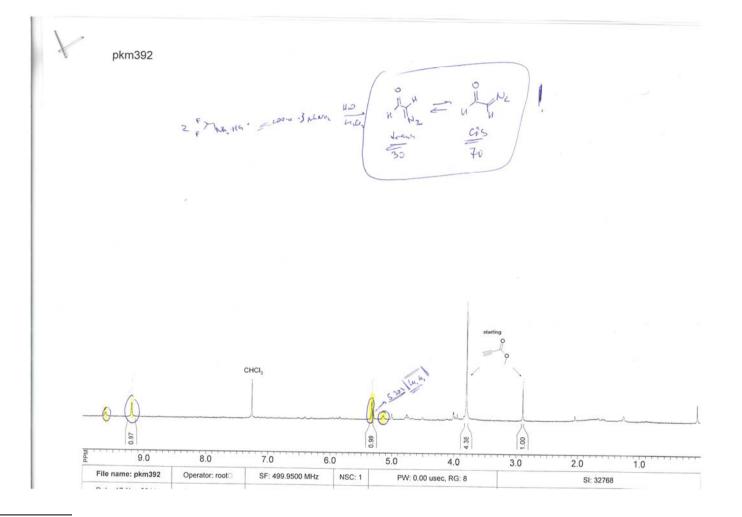


4.024





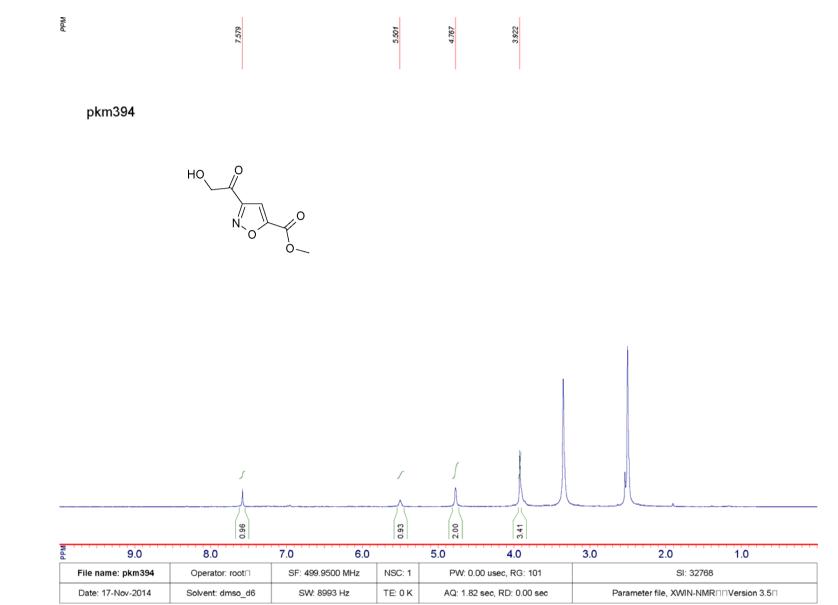
Reaction mixture containing 7b (signals are marked in vellow):²



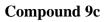
² Pure diazoacetaldehyde **7b** is described in: Y. Chiang, A. J. Kresge, V. V. Popik J. Chem. Soc. Perkin Trans. 2, **1999**, 1107. Citation from the manuscript:

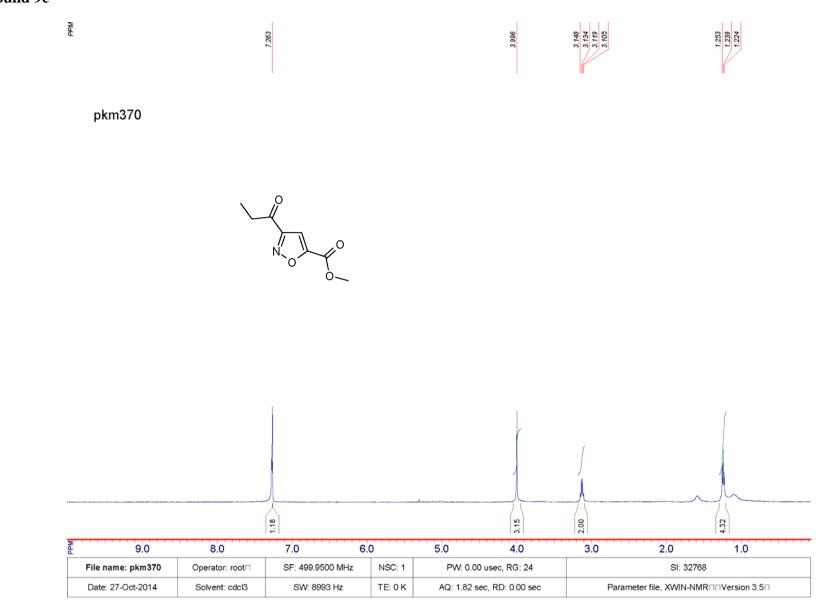
[&]quot;Proton NMR spectra of diazoacetaldehyde: δH (200 MHz; CDCl₃; Me₄Si) 9.61 (0.30 H, d, J = 6.8 Hz), 9.19 (0.67 H, s), 5.33 (0.74 H, s), 5.14 (0.29 H, d, J = 7.0 Hz); indicated restricted rotation about the C–C bond, giving rise to *s*-*cis* and *s*-*trans* isomers, present in the ratio 70 : 30 in CDCl₃."

Compound 8c



Mdd	192.59 192.57	161.02 160.31 156.31 156.31		108.07		66.11	53.30				
	pkm394_C13										
		HO N									
				Ι							
	na počesta na se počesta je počesta provinska počesta počesta počesta počesta počesta počesta počesta počesta Na na		na la sela di sena di sena di sera di sera di sela di sela di sera di sela di sera di sera di sera di sera di Sena di sela di sela di sera di		list annotation an baard an Aran ta an ann an Aran an Aran an Aran ann an Aran ann an Aran ann ann Ar an Aran ann an Aran Aran Aran Aran Ar	ha li ingeni ar tea		Manager Market			
Mdd	190 180 170	160 150	140 130 120	г <u>т</u>		70	60	50 40	30	20	10
	File name: pkm394_C13	Operator: root⊓	SF: 125.7126 MHz	NSC: 953	PW: 0.00 usec, RG: 512	200			SI: 65536		
	Date: 20-Nov-2014	Solvent: dmso	SW: 32680 Hz	TE: 0 K	AQ: 1.57 sec, RD: 0.00	Parameter file, XWN-NMR⊓⊓Version 3.5⊓					





Mdd	193.65	161.47 160.97 156.26 144.26		107.44		52.76	33.08	6.95
pkm370_C13								
	Ń							
		offo						
une status da de la desta de segui de ser dinestes de seguindo en esta de se			No of the annual schedule are schedule			fit wanted a second fit, before started		
a 240 220	200 180	160 1	40 12	0 100	80	60	40 2	20 0
File name: pkm370_C13	Operator: root⊓	SF: 125.7126 MHz	NSC: 1851	PW: 0.00 usec, RG	: 51200		SI: 65536	

SW: 32680 Hz

Solvent: dmso

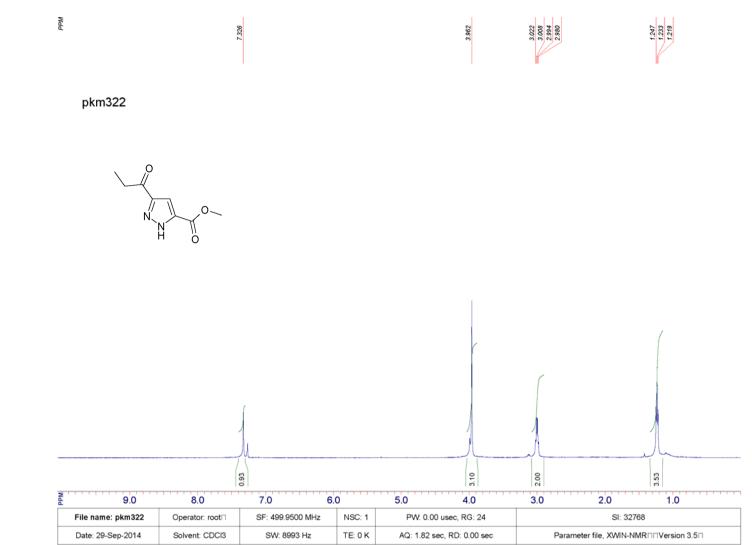
TE: 0 K

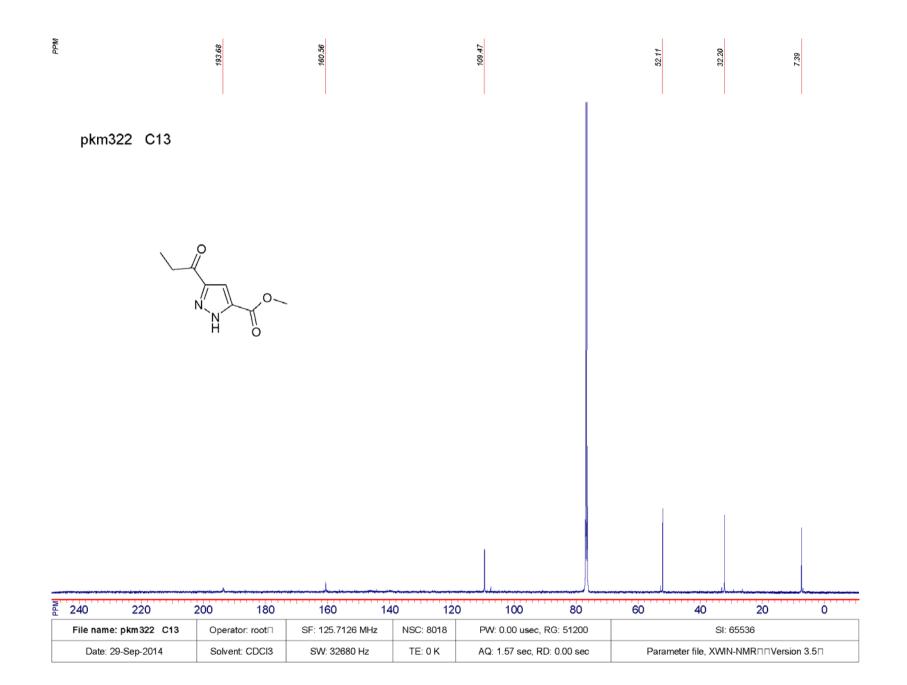
AQ: 1.57 sec, RD: 0.00 sec

Parameter file, XWN-NMR⊓⊓Version 3.5⊓

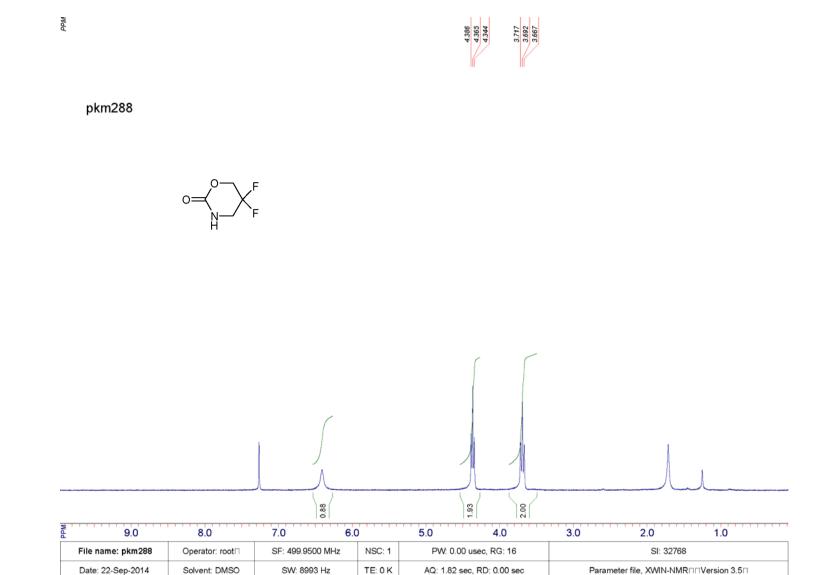
Date: 28-Oct-2014

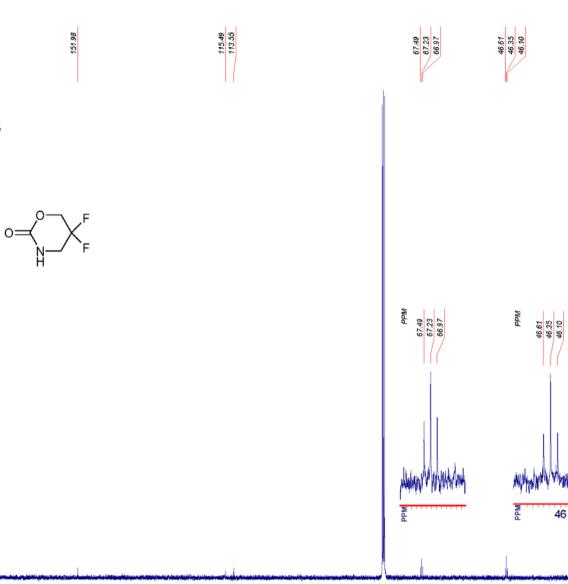
Compound 9d





Compound 10e



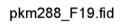


Мdd

pkm288_C13

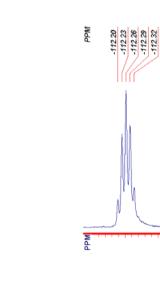
РРМ	190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
	File name: pkm288_C13		Opera	tor: root⊓	SF: 125.7126 MHz			NSC: 130	05	PW: 0.00 usec, RG: 51200				SI: 65536					
	Date: 22-Sep-2014		Solve	nt: dmso	5	SW: 32680	Hz	TE: 0 K	(AQ: 1.57	sec, RD: (0.00 sec		Parame	eter file, X	MN-NMR	⊓Versio	n 3.5⊓	

46



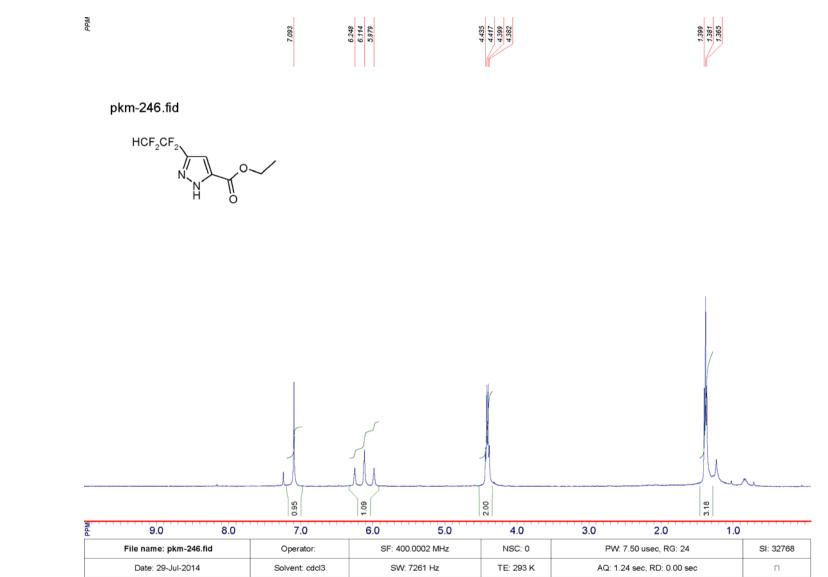
0=

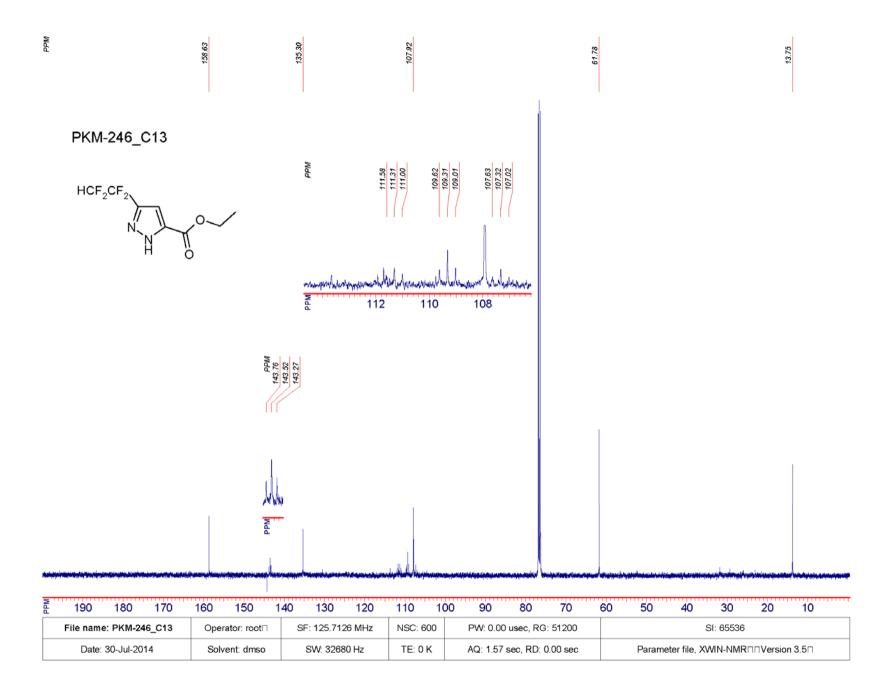
Γ, 'F

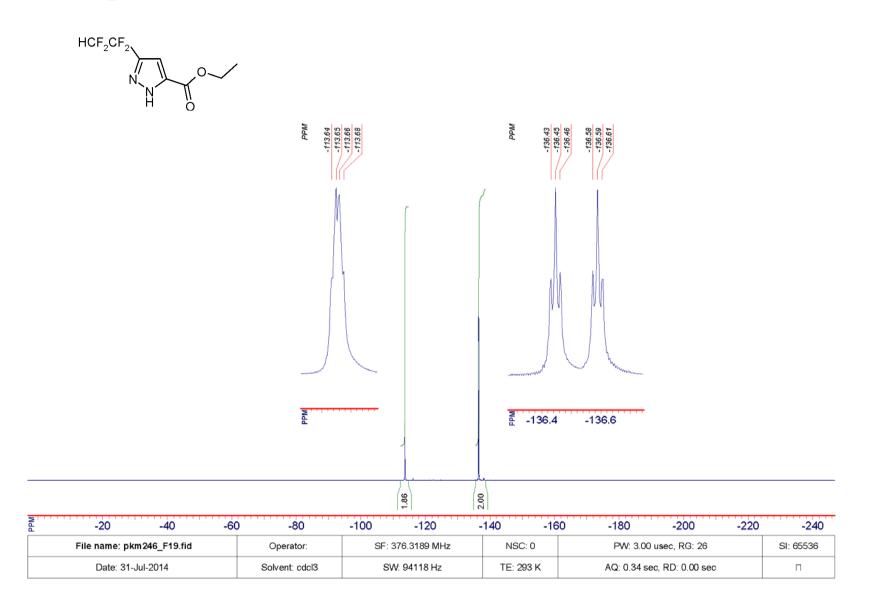


NO0	-20	-40	-60	-80	-100	-120	-140	-16	60 -180	-200	-220	-240
	File name: pkm	1288_F19.fid		Operator: SF: 376.3189 MHz			N	SC: 0	PW: 3.	SI: 65536		
	Date: 25-Sep-2014			Solvent: cdcl3	s	W: 94118 Hz	TE	293 K	AQ: 0.34	sec, RD: 0.00 sec		П

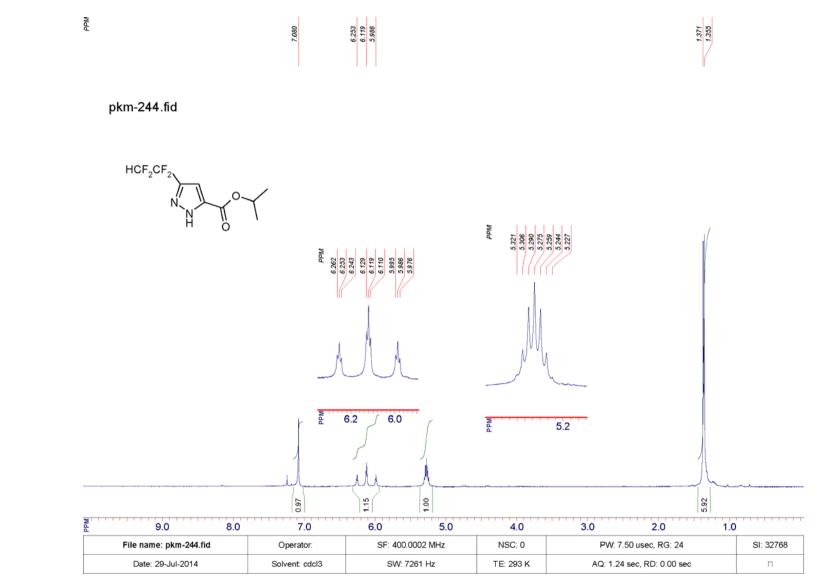
Compound 12a

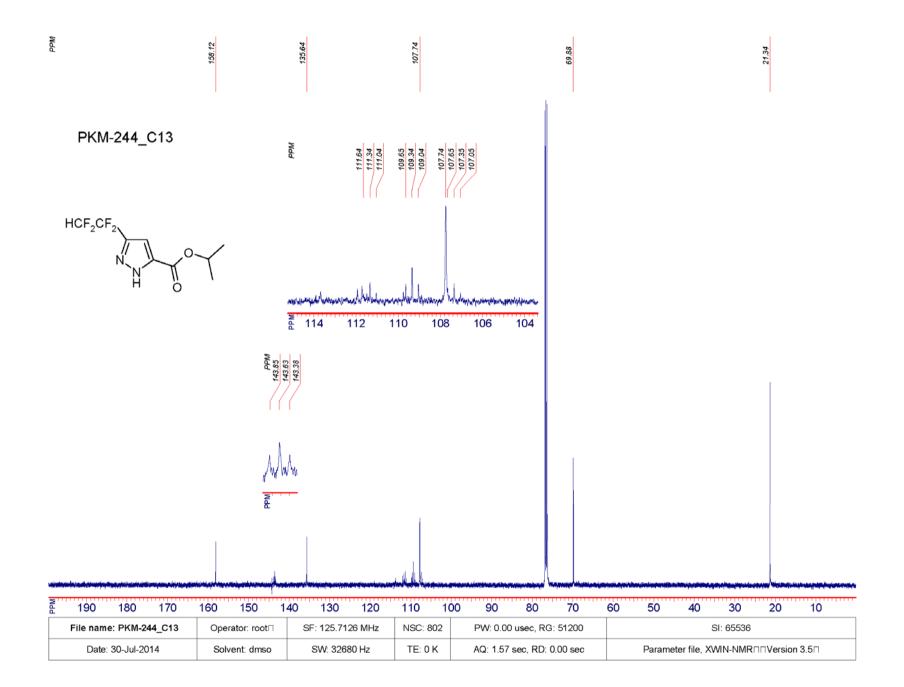


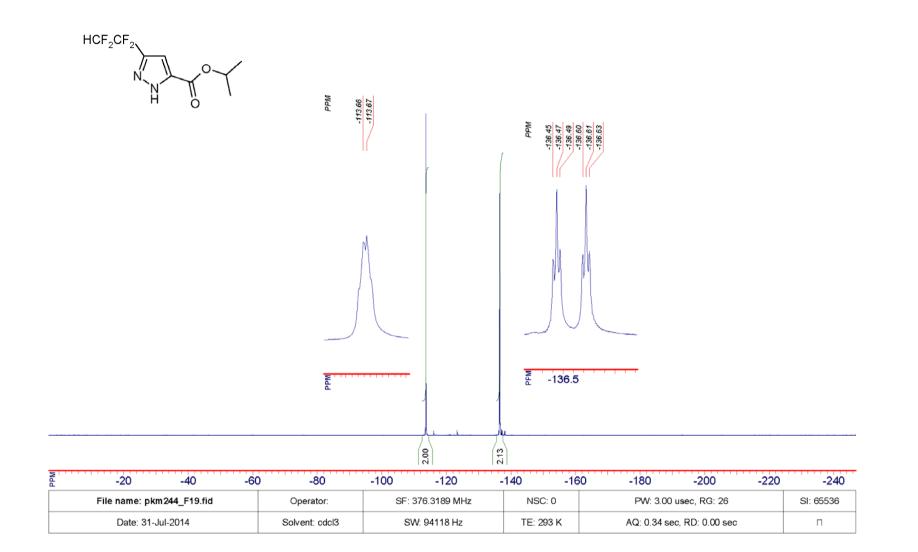




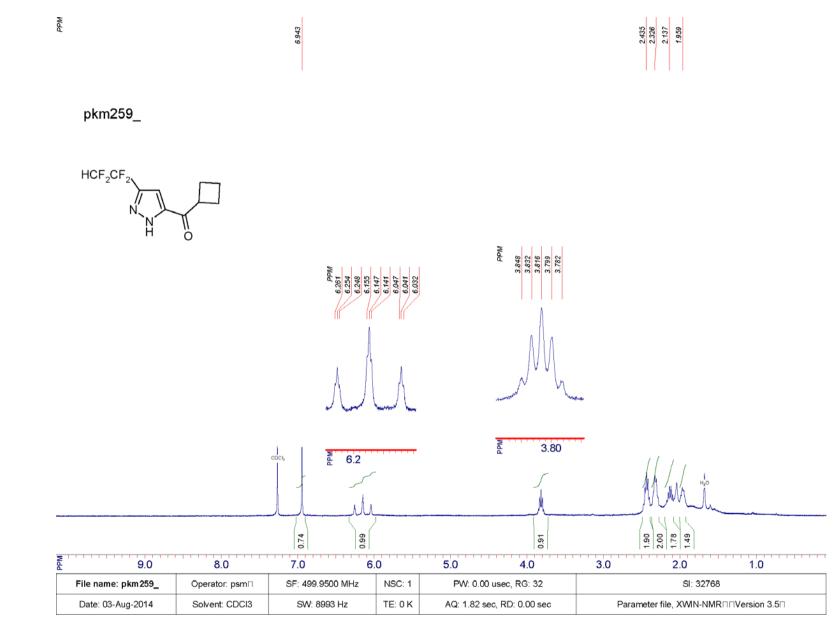
Compound 13a

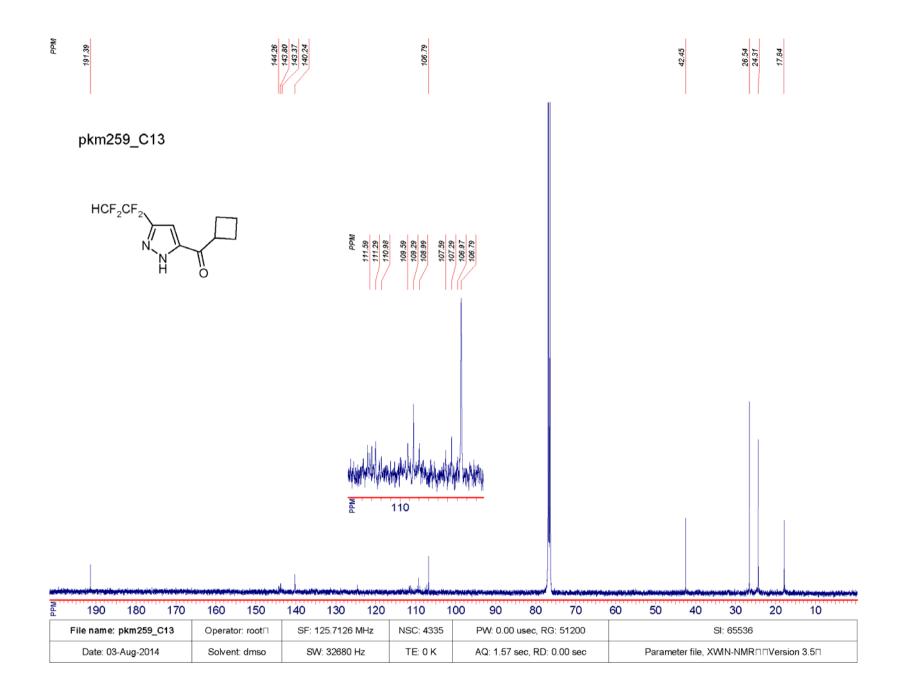


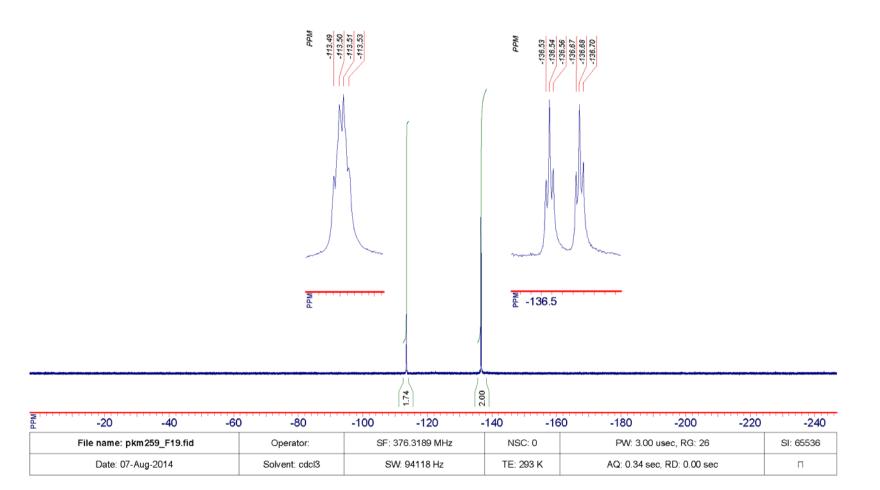




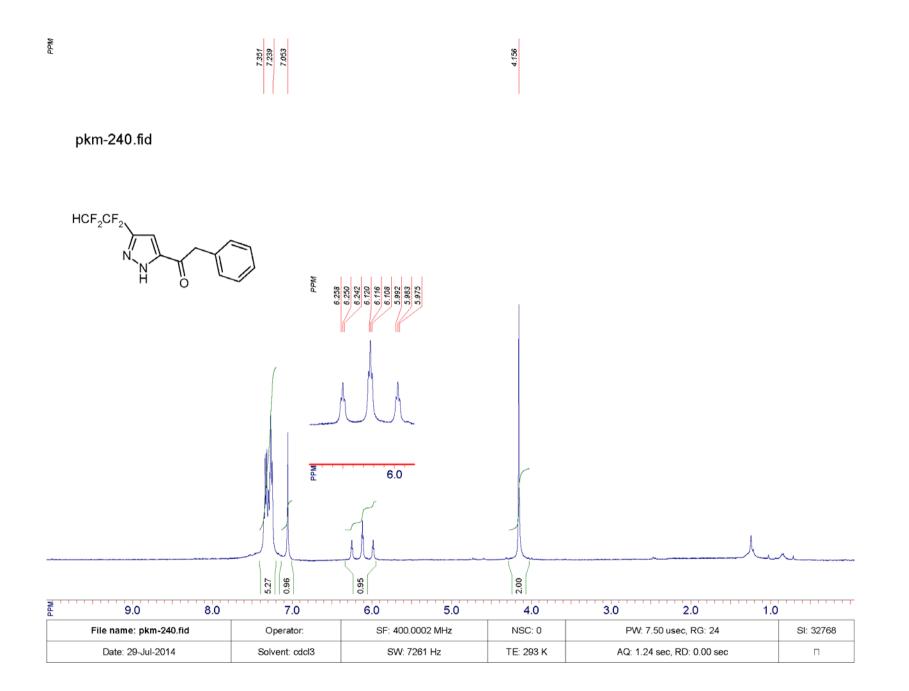
Compound 14a

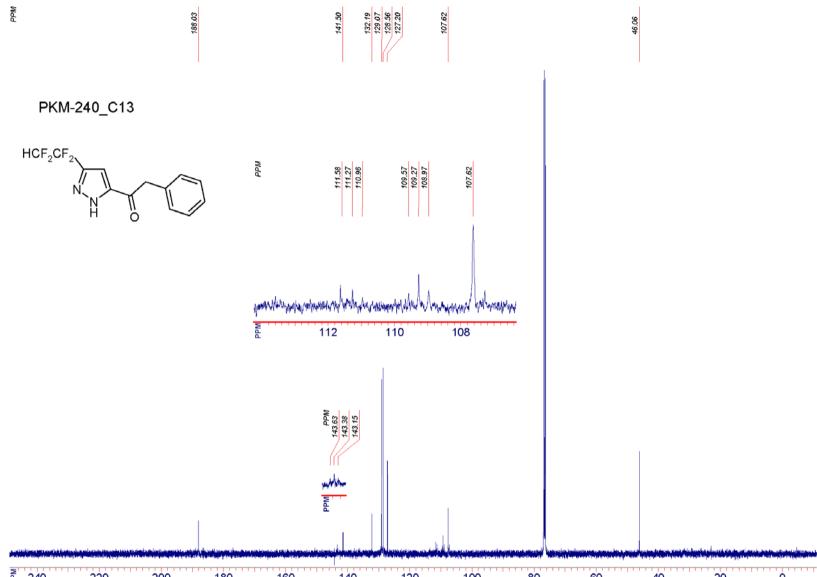




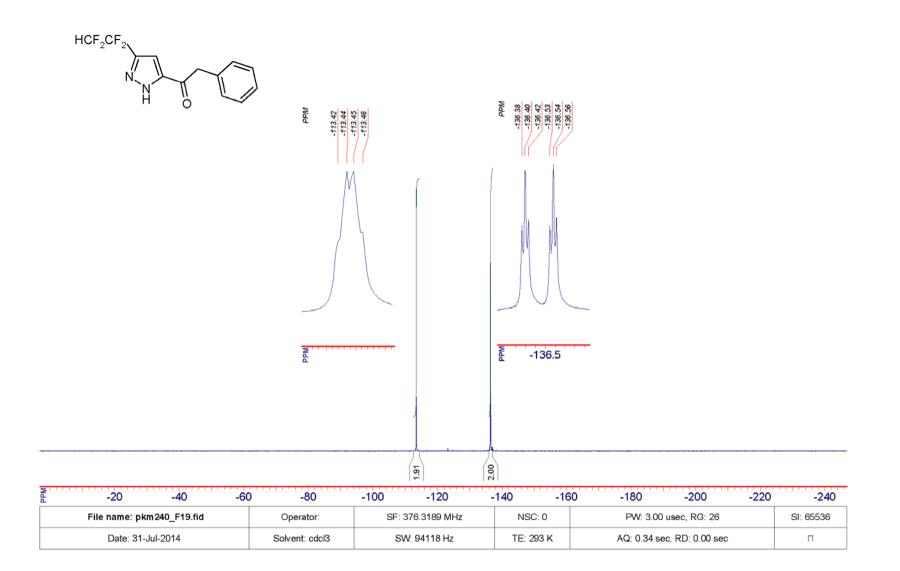


Compound 15a

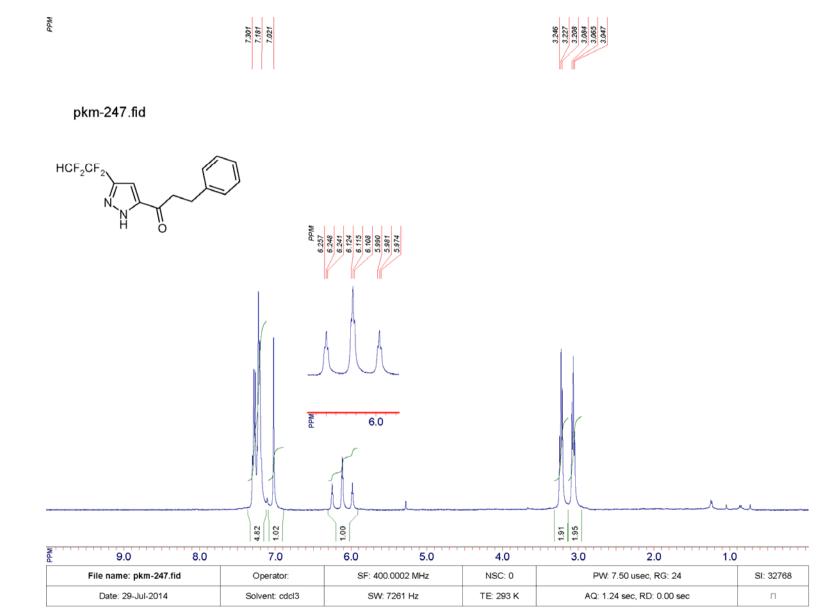


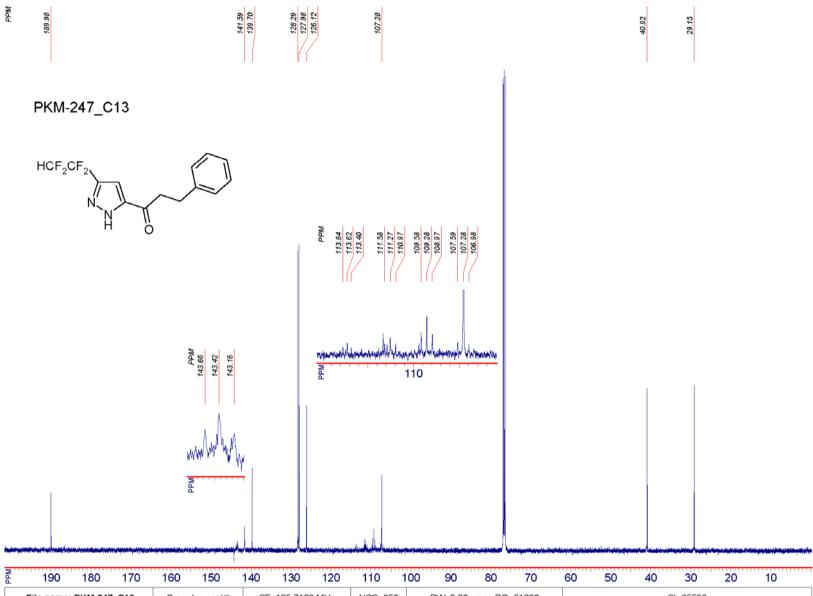


РРМ	240	220	200	0 180	160	140	120	100	80	60	40	20	0
	File name	: PKM-240_C13		Operator: root⊓	SF: 125.7126 N	1Hz	NSC: 388	PW: 0.00 usec, F	RG: 51200		SI: (65536	
	Date: 30-Jul-2014			Solvent: dmso	SW: 32680 H	z	TE: 0 K	AQ: 1.57 sec, RE): 0.00 sec	Paran	neter file, XWIN	I-NMR⊓⊓Versi	on 3.5⊓

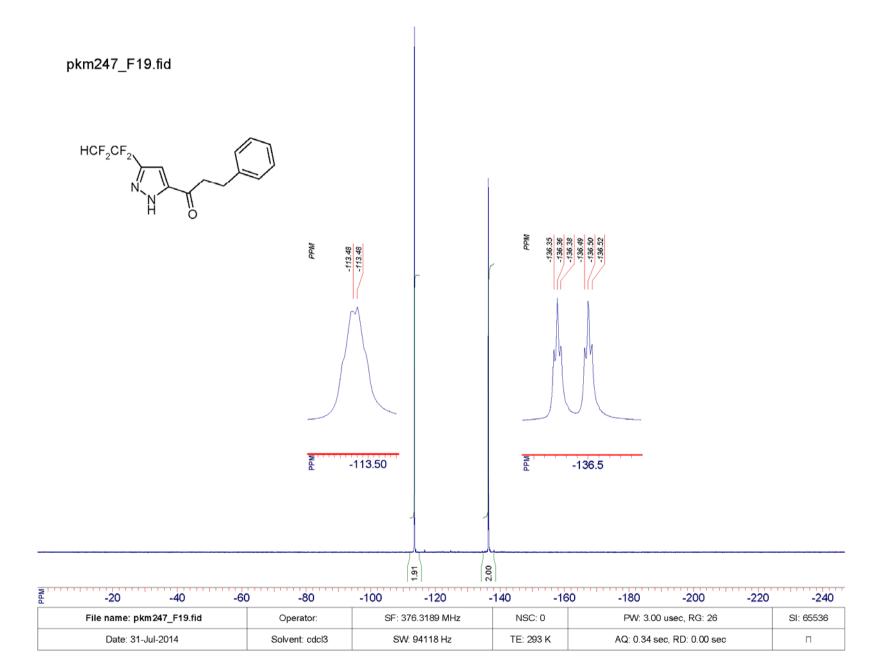


Compound 16a

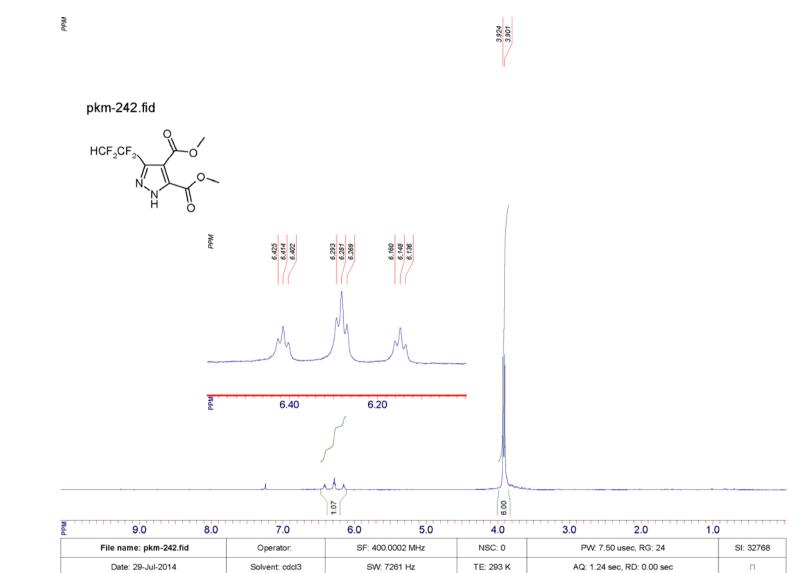


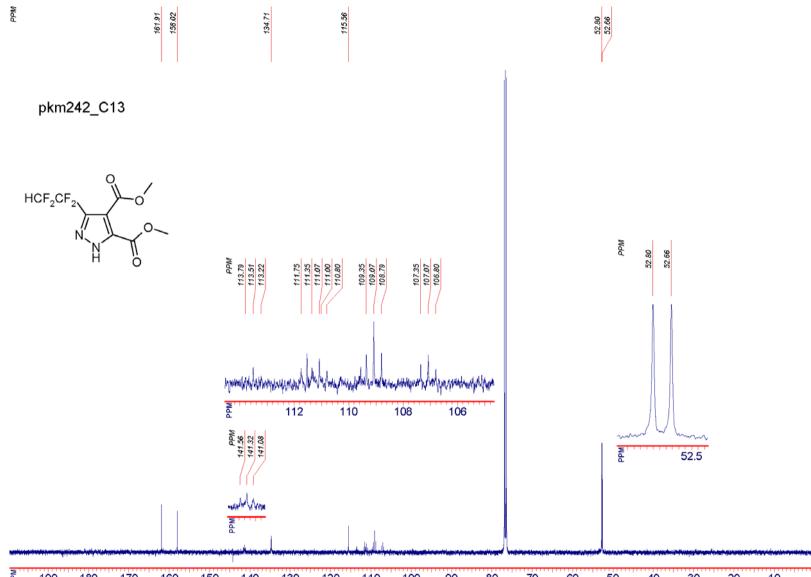


ррМ	190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
	File name:	_C13	Opera	tor: root⊓	SF	SF: 125.7126 MHz				PW: 0.00	usec, RG:	51200							
	Date: 30-Jul-2014			Solve	ent: dmso	5	SW: 3268) Hz	TE: 0 K		AQ: 1.57 s	sec, RD: 0	.00 sec		Parame	ter file, XV	MN-NMR	⊓⊓Versio	n 3.5⊓

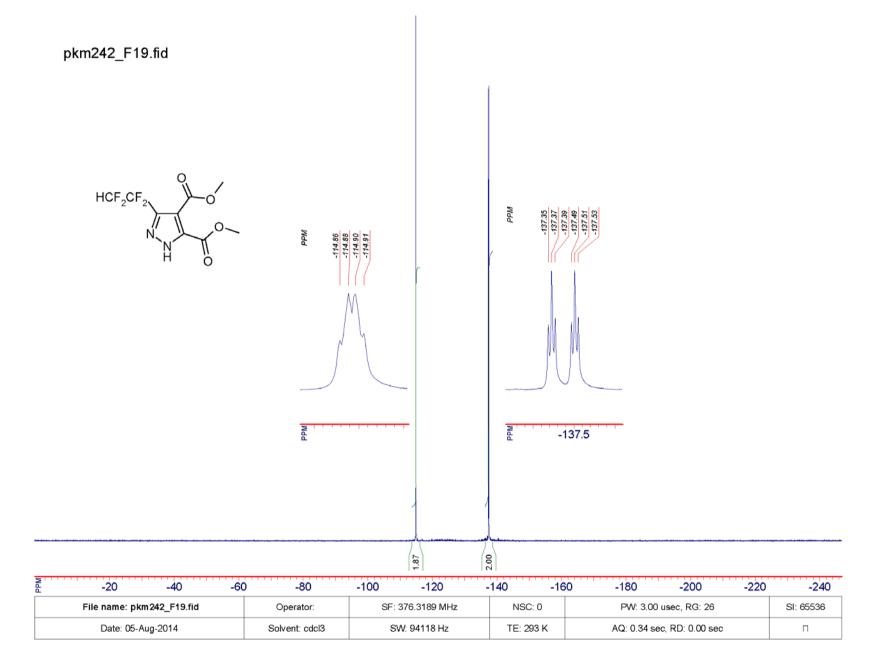


Compound 17a

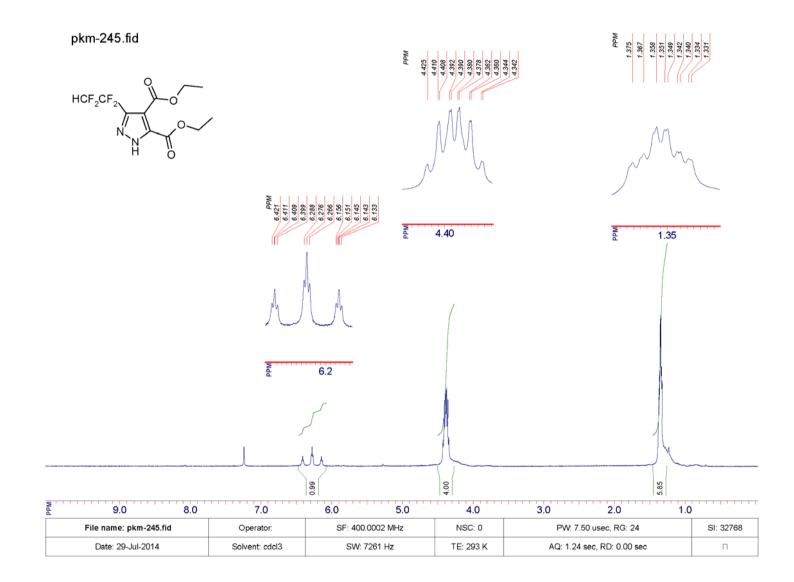


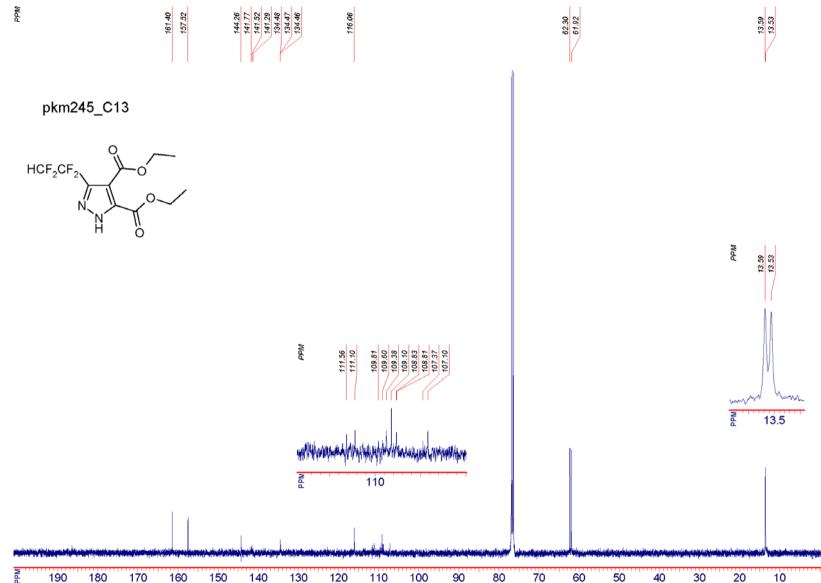


РРМ	190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
	File name	2_C13	Opera	ator: root⊓	S	SF: 125.7126 MHz			9	PW: 0.00	usec, RG	: 51200				SI: 65536			
	Date: 31-Jul-2014			Solve	ent: CDCl3		SW: 3268	0 Hz	TE: 0 K		AQ: 1.57 s	sec, RD: (0.00 sec		Parame	eter file, X	WN-NMR	⊓⊓Versio	n 3.5⊓

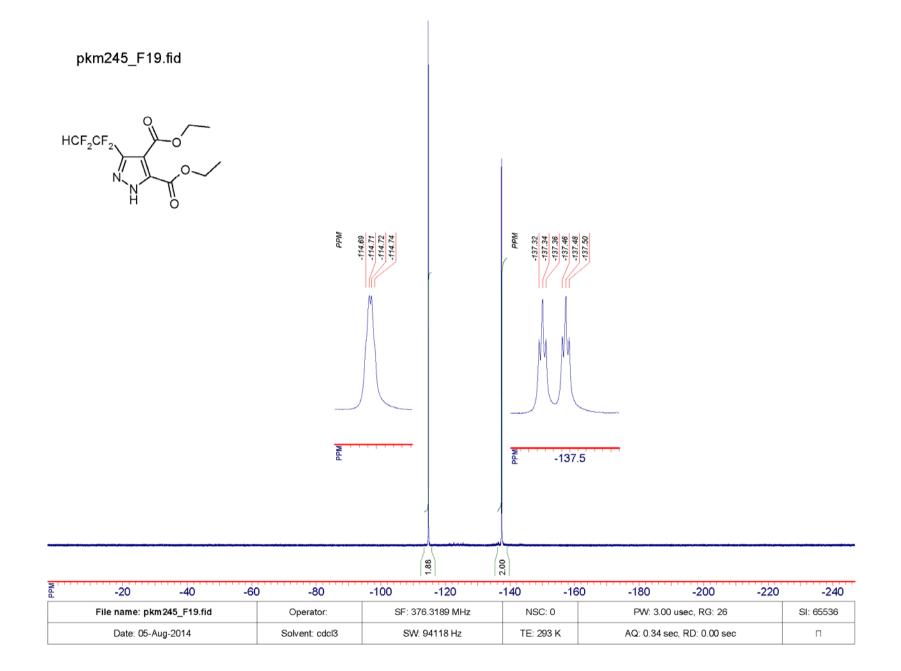


Compound 18a

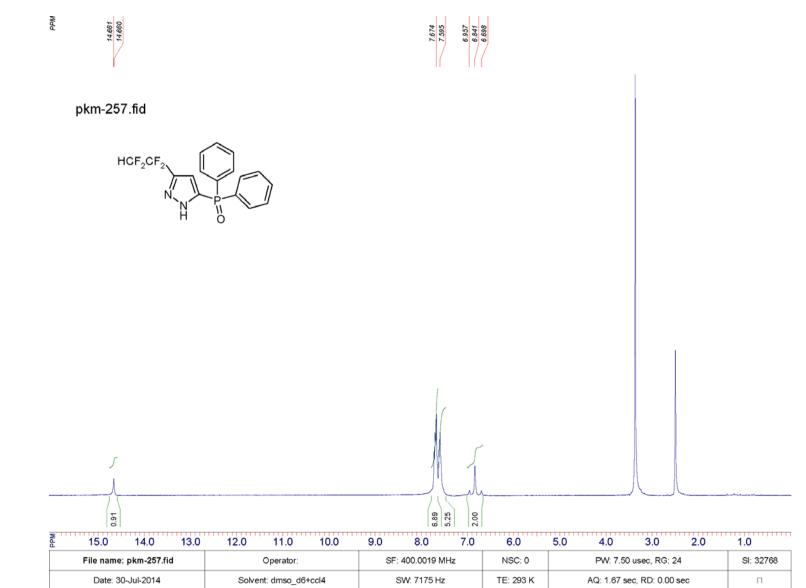


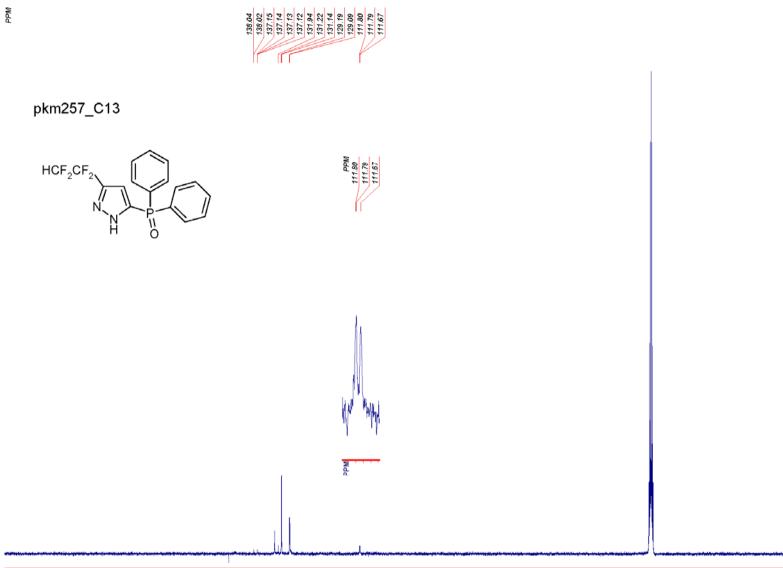


٨dd	190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
	File name: pkm245_C13			Operat	or: root⊓	SF: 125.7126 MHz			NSC: 798		PW: 0.00	usec, RG:	51200	SI: 65536					
	Date: 31-Jul-2014			Solver	nt: dmso	s	W: 32680	Hz	TE: 0 K		AQ: 1.57 s	ec, RD: 0	.00 sec		Parame	ter file, X	MN-NMR	⊓Versio	n 3.5⊓

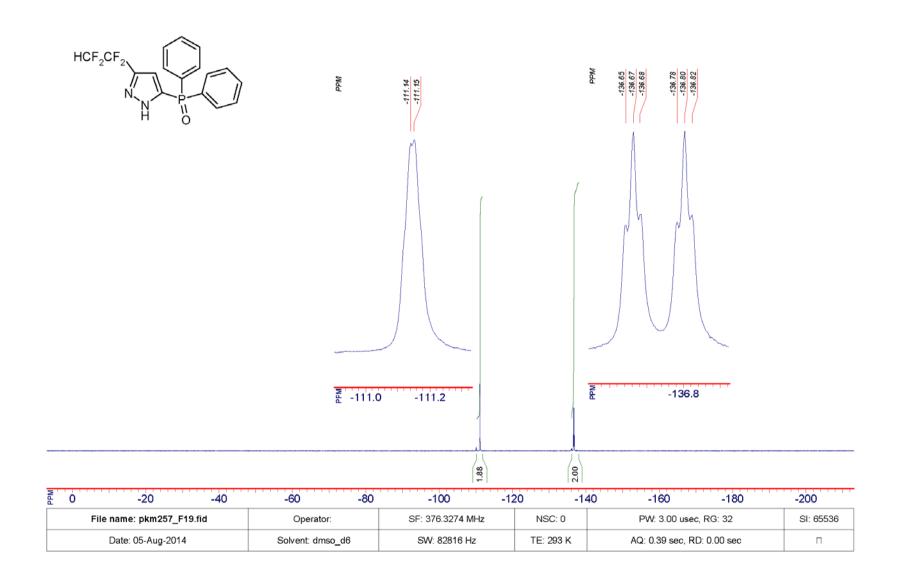








190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
File name	7_C13	Opera	ator: root⊓	SF	SF: 125.7126 MHz			:: 660 PW: 0.00 usec, RG: 51200						\$	SI: 65536			
Date: 31-Jul-2014			Solve	ent: dmso	:	SW: 32680) Hz	TE: 0 K		AQ: 1.57 s	ec, RD: 0).00 sec		Parame	eter file, X	MN-NMR	⊓⊓Versio	n 3.5⊓



Мdd

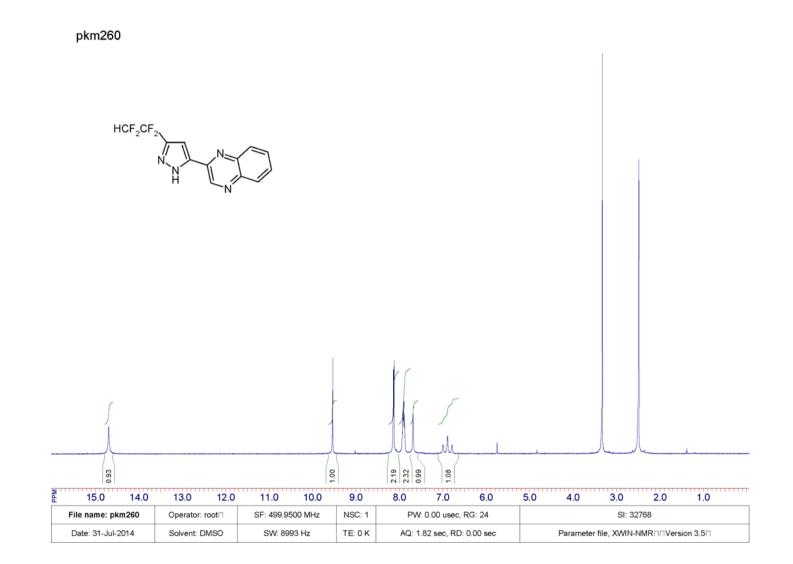
pkm257_P31

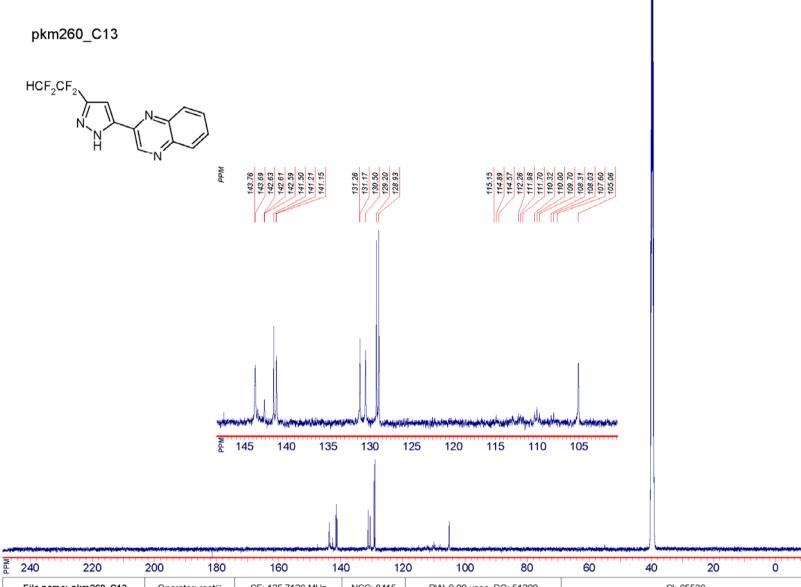
HCF₂CF₂ ò

РРМ	160	140	120	100	80	60	40	20	0	-20	-40	-60	-80	-100	-120	-140	-160	-180	-200
	File name: pkm257_P31				erator: root	:П	SF: 202.3	NSC: 2	2	PW: 0.0	0 usec, R0	G: 2048		SI: 65536					
	Date: 04-Aug-2014			Sc	olvent: d2o	,	SW: 80	645 Hz	TE: 0 K	(AQ: 0.81	sec, RD: (0.00 sec		Parar	neter file, 3	XWIN-NM	R⊓⊓Vers	ion 3.5⊓

14.68

Compound 20a





Mdd	240	220	200 180	160 1 ₀	40 12	0 100	80	60	40	20	0
	File name: pkm260_C13		Operator: root⊓	SF: 125.7126 MHz	NSC: 8415	PW: 0.00 usec,	RG: 51200		SI: (65536	
	Date: 03-Aug-2014		Solvent: dmso	SW: 32680 Hz	TE: 0 K	AQ: 1.57 sec, RI	D: 0.00 sec	Parar	neter file, XWN	I-NMR⊓⊓Versi	ion 3.5⊓

