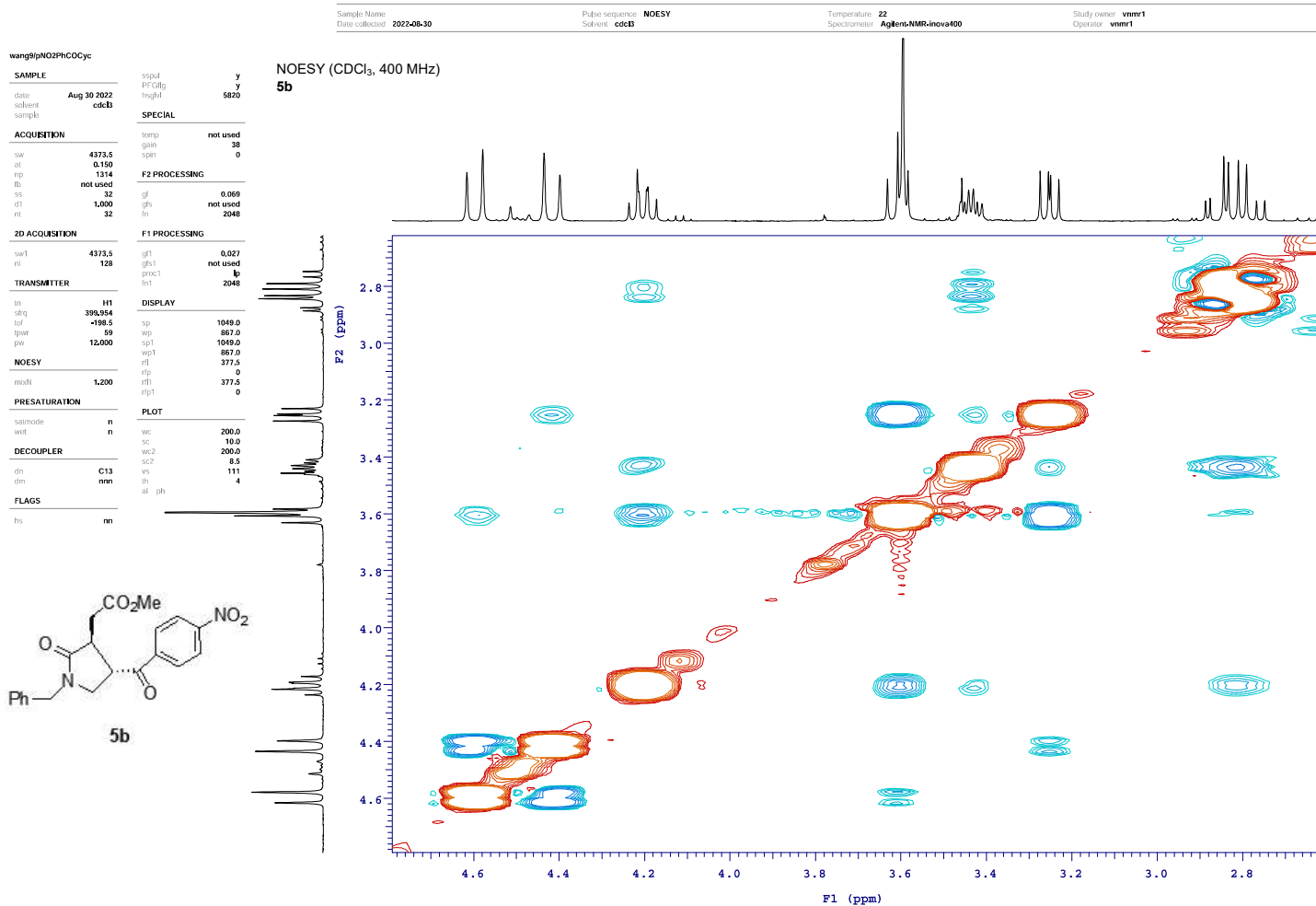
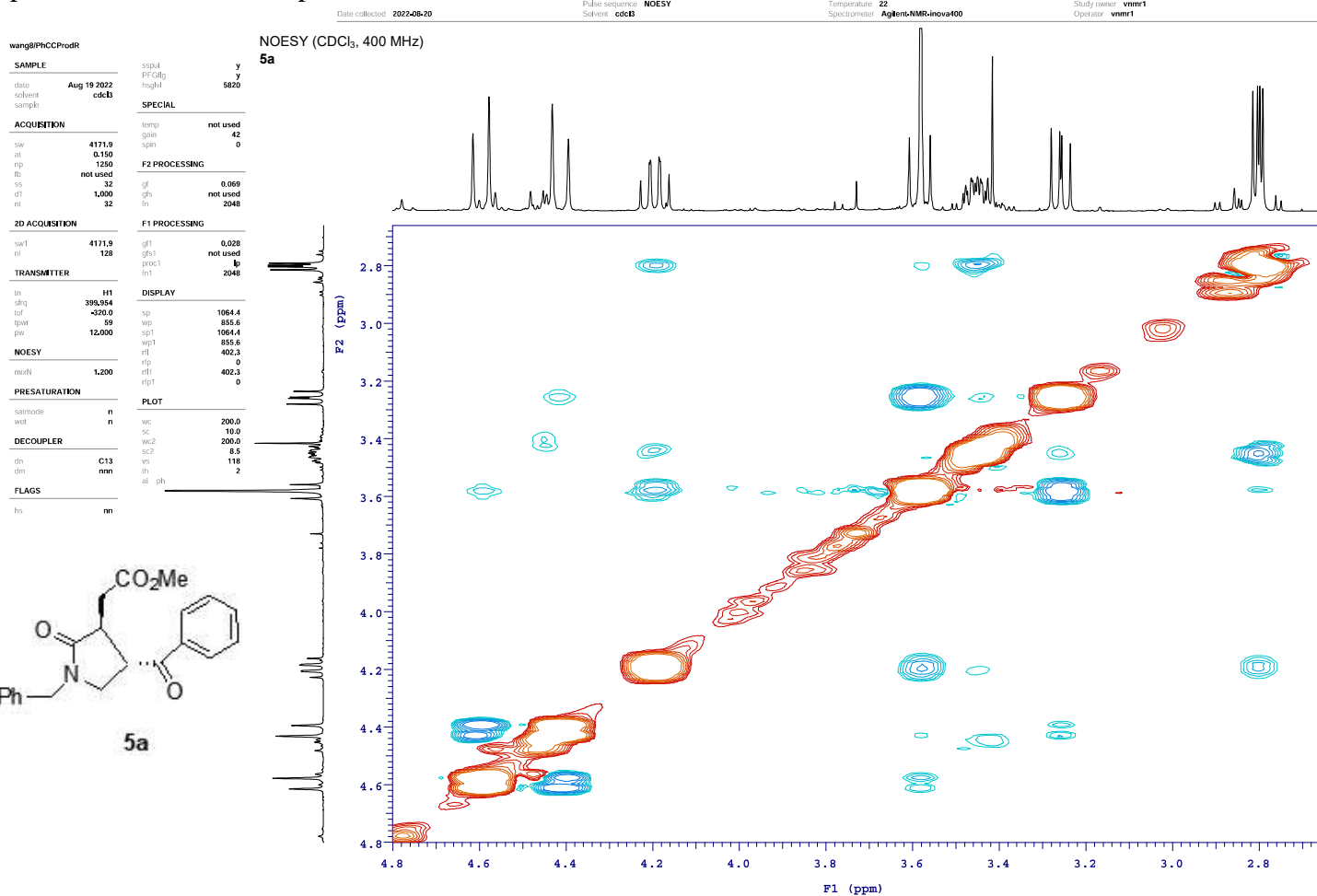


II. Copies of the 2D NOESY spectra

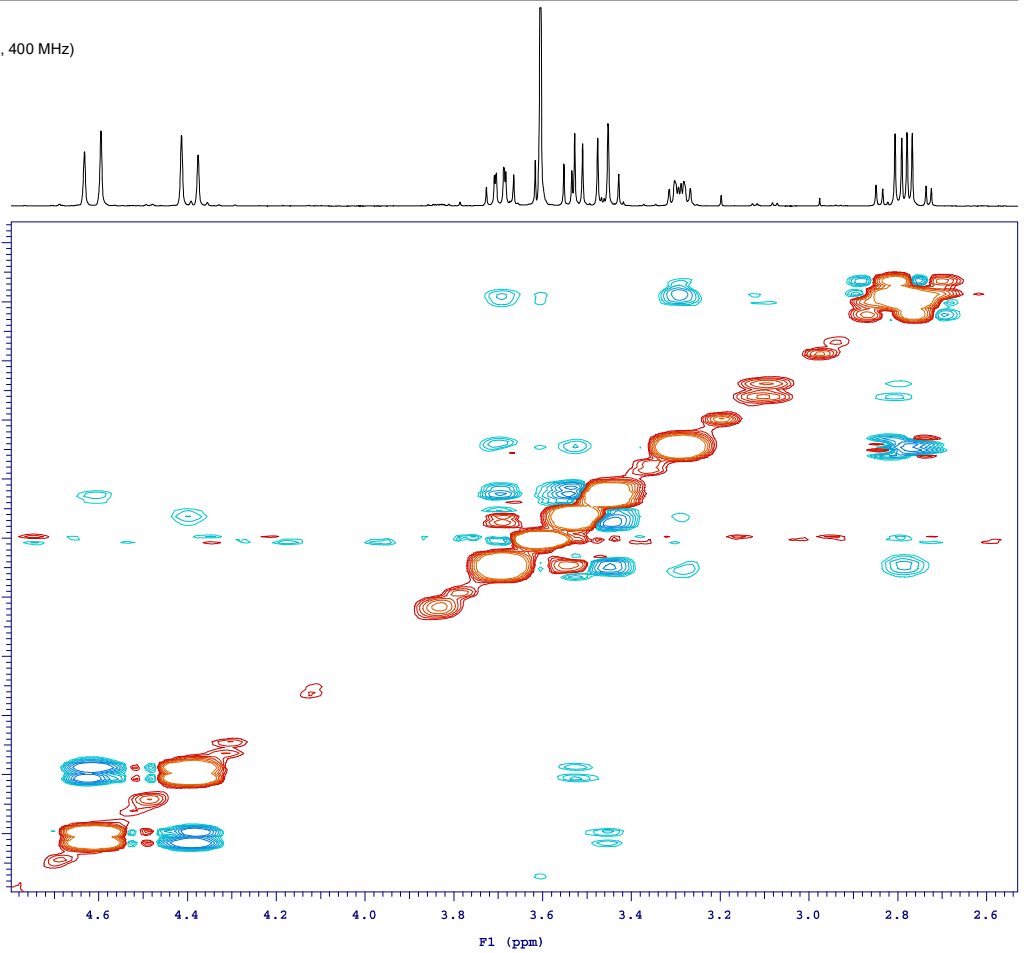
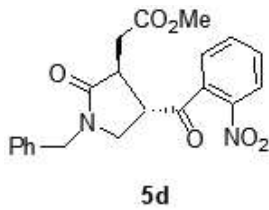


SSS1

wang@NO2PhCO2Cyc

SAMPLE		ssq4	y
date	Sep 2 2022	PF Gltg	y
solvent	cdcl3	hsghl	5820
sample			
ACQUISITION		SPECIAL	
temp	not used		
gain	38		
spin	0		
F2 PROCESSING			
gf	0.069		
gfs	not used		
fn	2048		
2D ACQUISITION		F1 PROCESSING	
sw1	4001.6	gf1	0.029
nt	128	gfs1	not used
		proc1	lp
		int	2048
TRANSMITTER		DISPLAY	
tn	H1	sp	1012.0
slq	390.954	wp	906.6
tdf	-337.7	sp11	1012.0
tpwr	59	wp1	906.6
pw	12.000	rf	332.3
		rfs	0
		rf1	332.3
		rfp1	0
NOESY		PLOT	
mixN	1,200	wc	200.0
		sc	10.0
		wc2	200.0
		sc2	8.5
		vs	111
		th	2
		ai	ph
PRESATURATION			
satmode	n		
wet	n		
DECOUPLER			
dm	C13		
dm	nmn		
FLAGS			
hs	nm		

NOESY (CDCl<sub>3</sub>, 400 MHz)  
5d



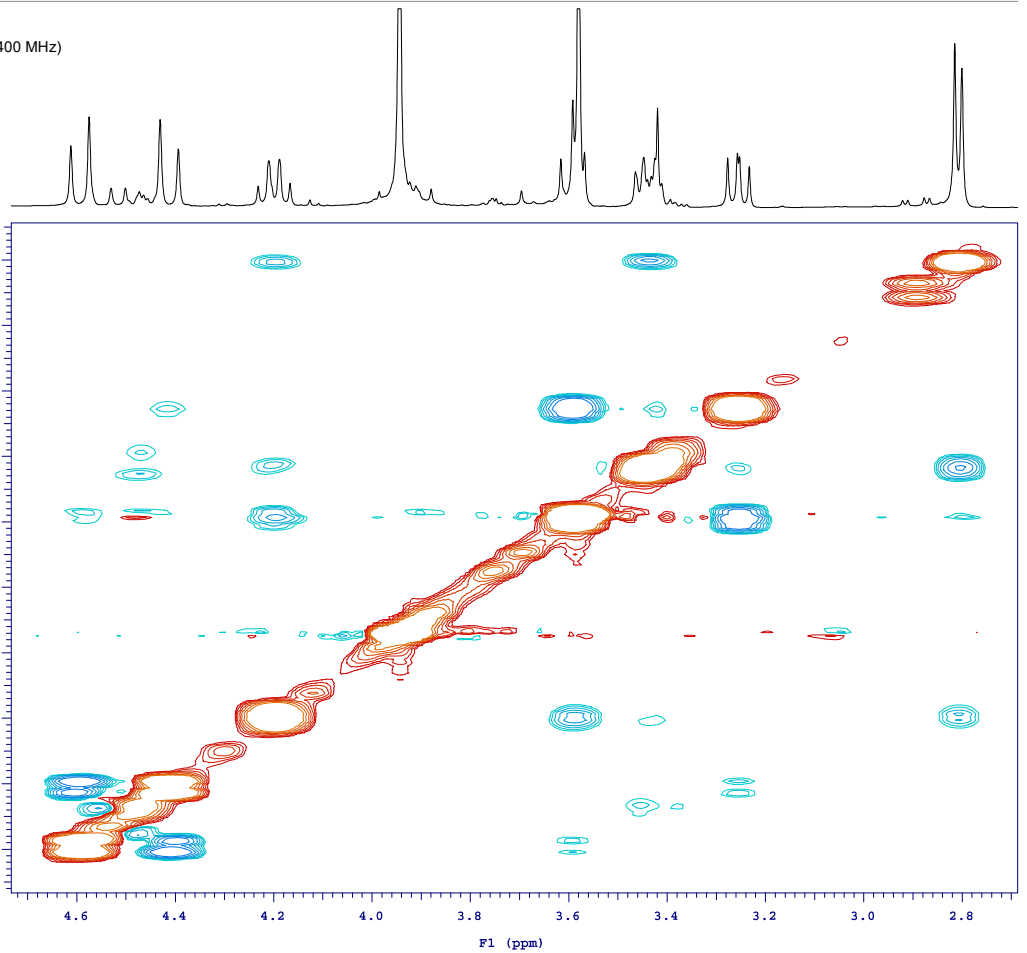
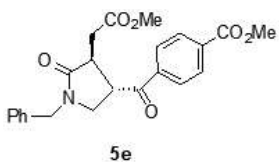
Data file: home\vnmr1\vnmr3sys\data\wang@NO2PhCO2Cyc\_NOESY.fid

Plot date: 2023-01-09

wang@CO2MeCyc

SAMPLE		ssq4	y
date	Aug 24 2022	PF Gltg	y
solvent	cdcl3	hsghl	5820
sample			
ACQUISITION		SPECIAL	
temp	not used		
gain	38		
spin	0		
F2 PROCESSING			
gf	0.069		
gfs	not used		
fn	2048		
2D ACQUISITION		F1 PROCESSING	
sw1	4231.9	gf1	0.029
nt	128	gfs1	not used
		proc1	lp
		int	2048
TRANSMITTER		DISPLAY	
tn	H1	sp	1074.8
slq	390.954	wp	818.3
tdf	-214.0	sp11	1074.8
tpwr	59	wp1	818.3
pw	12.000	rf	322.0
		rfs	0
		rf1	322.0
		rfp1	0
NOESY		PLOT	
mixN	1,200	wc	200.0
		sc	10.0
		wc2	200.0
		sc2	8.5
		vs	285
		th	4
		ai	ph
PRESATURATION			
satmode	n		
wet	n		
DECOUPLER			
dm	C13		
dm	nmn		
FLAGS			
hs	nm		

NOESY (CDCl<sub>3</sub>, 400 MHz)  
5e



SSS2

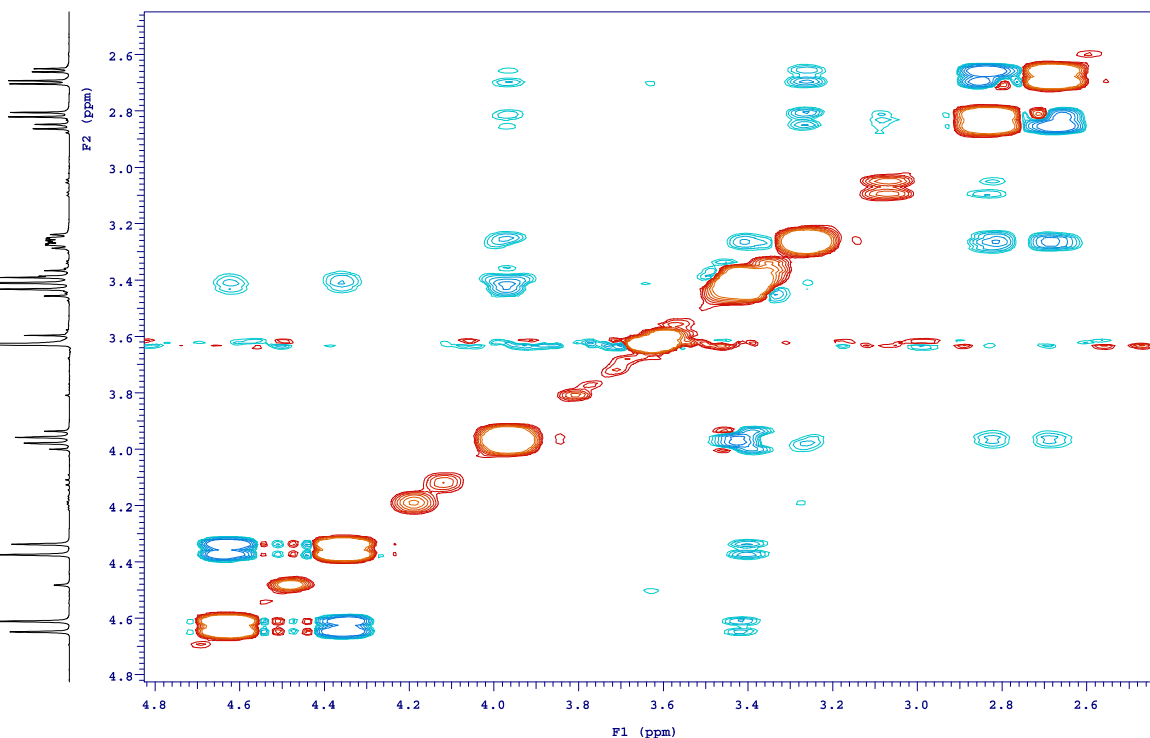
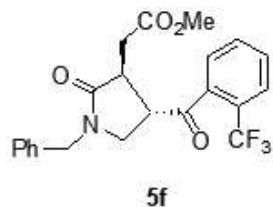
Data file: home\vnmr1\vnmr3sys\data\wang@CO2MeCyc\_NOESY.fid

Plot date: 2023-01-08

wang9fCF3PhCOCyc

SAMPLE		ssup4	y
date	Sep 2 2022	PF GfG	y
solvent	cdcl3	hsghl	5820
sample			
ACQUISITION			
sw	3908.5	temp	not used
al	0.150	gain	38
np	1174	spin	0
fb	not used		
ss	32	F2 PROCESSING	
d1	1.000	gf	0.069
rt	4	gfs	not used
		fn	2048
2D ACQUISITION			
sw1	3908.5	gfl	0.030
nl	128	gfs1	not used
		proc1	lp
		int1	2048
TRANSMITTER			
tn	H1		
slq	390.954		
tdl	-381.9	sp	979.6
tpwr	59	wp	950.4
pw	12.000	sp1	979.6
		wp1	956.4
		rf	329.6
		rfs	0
		rf1	329.6
		rfp1	0
PRESATURATION			
satmode	n		
wet	n	vc	200.0
		sc	10.0
		wc2	200.0
		sc2	8.5
		vs	119
		th	2
		ai	ph
DECOUPLER			
dm	C13		
dm	nmn		
FLAGS			
hs	nm		

NOESY (CDCl<sub>3</sub>, 400 MHz)  
5f



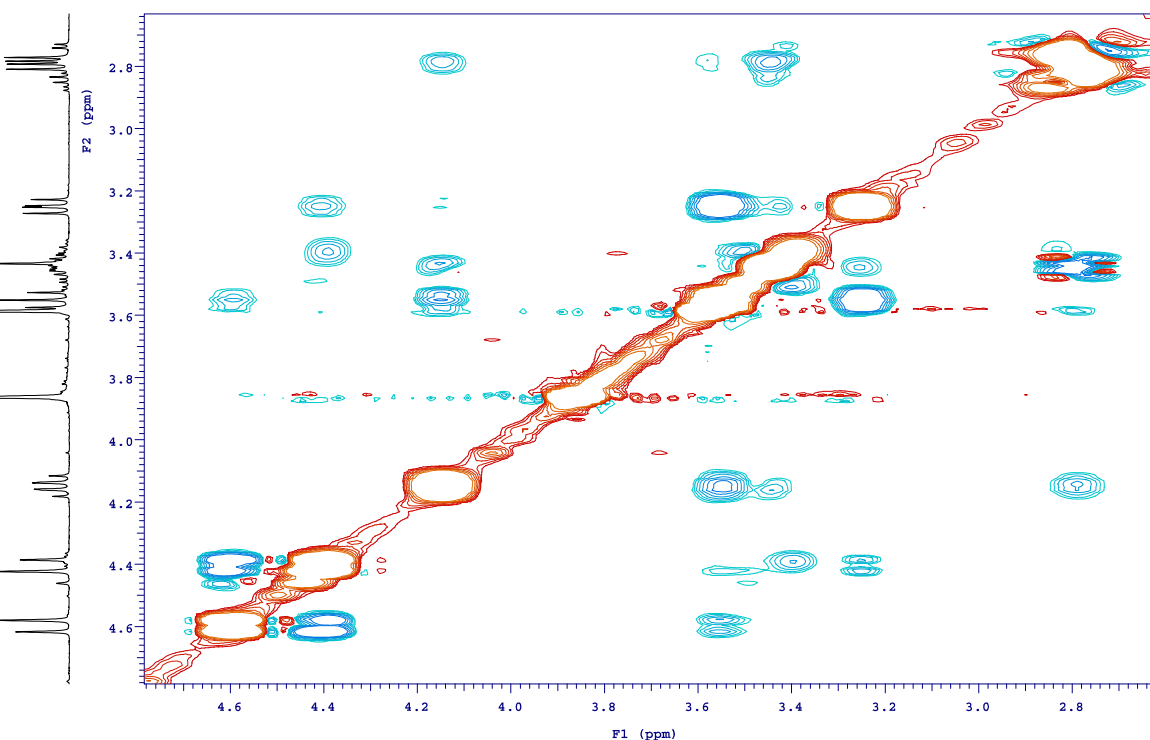
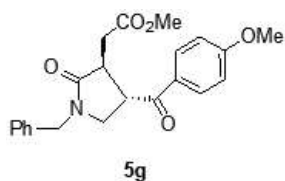
Data file: home\vnmr1\vnmr\sys\data\wang9fCF3PhCOCyc\_NOESY.fid

Plot date: 2023-01-09

wang9fMeOPhCOCyc

SAMPLE		ssup4	y
date	Sep 2 2022	PF GfG	y
solvent	cdcl3	hsghl	5820
sample			
ACQUISITION			
sw	4042.9	temp	not used
al	0.150	gain	42
np	1214	spin	0
fb	not used		
ss	32	F2 PROCESSING	
d1	1.000	gf	0.069
rt	32	gfs	not used
		fn	2048
2D ACQUISITION			
sw1	4042.9	gfl	0.029
nl	128	gfs1	not used
		proc1	lp
		int1	2048
TRANSMITTER			
tn	H1		
slq	390.954		
tdl	-315.6	sp	1052.8
tpwr	59	wp	860.7
pw	12.000	sp1	1052.8
		wp1	860.7
		rf	333.0
		rfs	0
		rf1	333.0
		rfp1	0
PRESATURATION			
satmode	n		
wet	n	vc	200.0
		sc	10.0
		wc2	200.0
		sc2	8.5
		vs	166
		th	2
		ai	ph
DECOUPLER			
dm	C13		
dm	nmn		
FLAGS			
hs	nm		

NOESY (CDCl<sub>3</sub>, 400 MHz)  
5g



SSS3

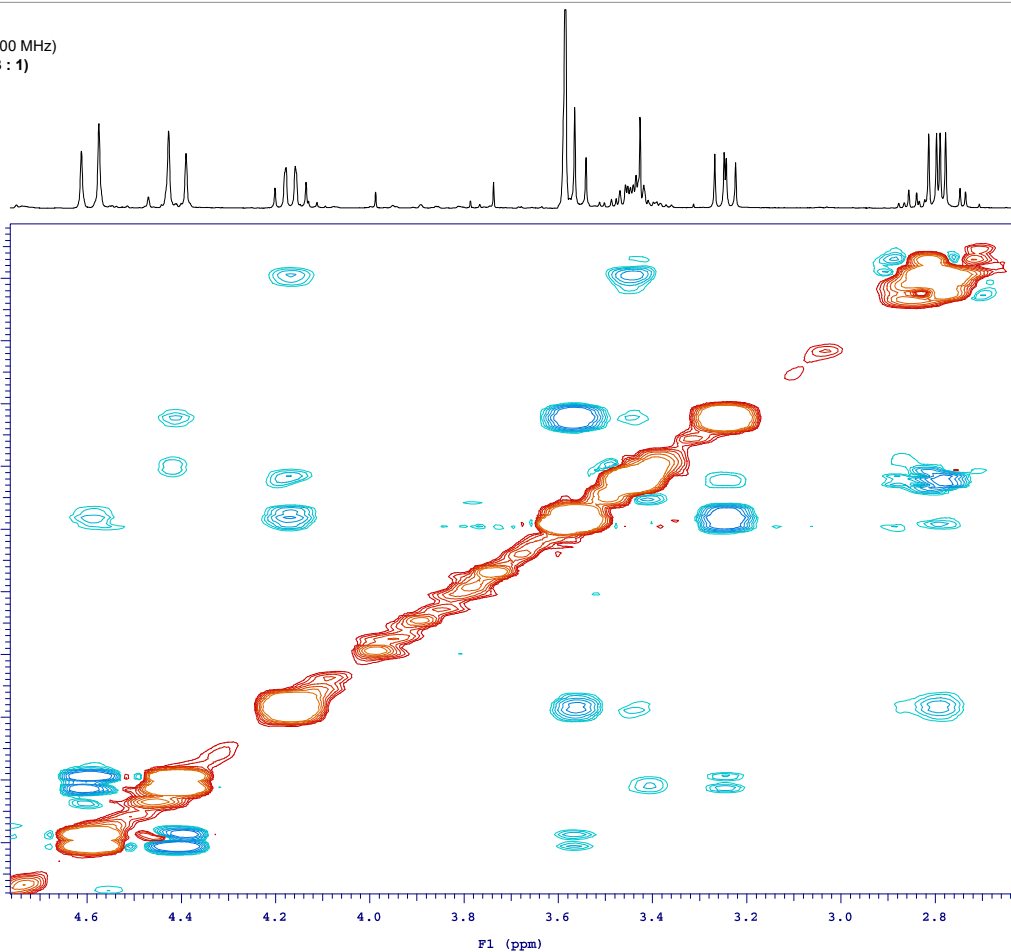
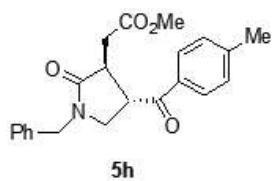
Data file: home\vnmr1\vnmr\sys\data\wang9fMeOPhCOCyc\_NOESY.fid

Plot date: 2023-01-09

wang9MePhCyc

SAMPLE		ssol4	y
date	Sep 23 2022	PF GfG	y
solvent	cdcl3	hsghf	5820
sample			
ACQUISITION		SPECIAL	
temp	not used		
gain	42		
spin	0		
F2 PROCESSING			
gf	0.069		
gfs	not used		
fn	2048		
2D ACQUISITION		F1 PROCESSING	
var1	3870.0	gf1	0.030
nt	128	gfs1	not used
		proc1	lp
		int	2048
TRANSMITTER		DISPLAY	
tn	H1	sp	1050.9
slq	390.954	wp	854.1
col	-344.3	sp1	1050.9
tpwr	59	wp1	854.1
pw	12.000	rl	275.6
		rfs	0
		rf1	275.6
		rfp1	0
NOESY		PLOT	
mixN	1,200	wc	200.0
		sc	10.0
		wc2	200.0
		sc2	8.5
		vs	229
		th	3
		al	ph
PRESATURATION			
satmode	n		
wet	n		
DECOUPLER			
dm	C13		
dm	nnn		
FLAGS			
hs	nm		

NOESY (CDCl<sub>3</sub>, 400 MHz)  
5h (trans/cis = 13 : 1)



Data file: /home/vnmr1/vnmr/sy/data/wang9MePhCyc\_NOESY.fid

Plot date: 2023-01-09

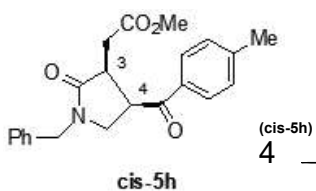
wang9MePhCymix

SAMPLE		ssol4	y
date	Sep 28 2022	PF GfG	y
solvent	cdcl3	hsghf	5820
sample			
ACQUISITION		SPECIAL	
temp	not used		
gain	20		
spin	0		
F2 PROCESSING			
gf	0.069		
gfs	not used		
fn	2048		
2D ACQUISITION		F1 PROCESSING	
var1	4042.9	gf1	0.029
nt	128	gfs1	not used
		proc1	lp
		int	2048
TRANSMITTER		DISPLAY	
tn	H1	sp	926.8
slq	390.954	wp	963.3
col	-304.6	sp1	926.8
tpwr	59	wp1	963.3
pw	12.000	rl	320.8
		rfs	0
		rf1	320.8
		rfp1	0
NOESY		PLOT	
mixN	1,200	wc	200.0
		sc	10.0
		wc2	200.0
		sc2	8.5
		vs	221
		th	3
		al	ph
PRESATURATION			
satmode	n		
wet	n		
DECOUPLER			
dm	C13		
dm	nnn		
FLAGS			
hs	nm		

NOESY (CDCl<sub>3</sub>, 400 MHz)  
5h (trans/cis = 1.2 : 1)

(cis-5h)  
4

(cis-5h)  
3



(cis-5h)  
3

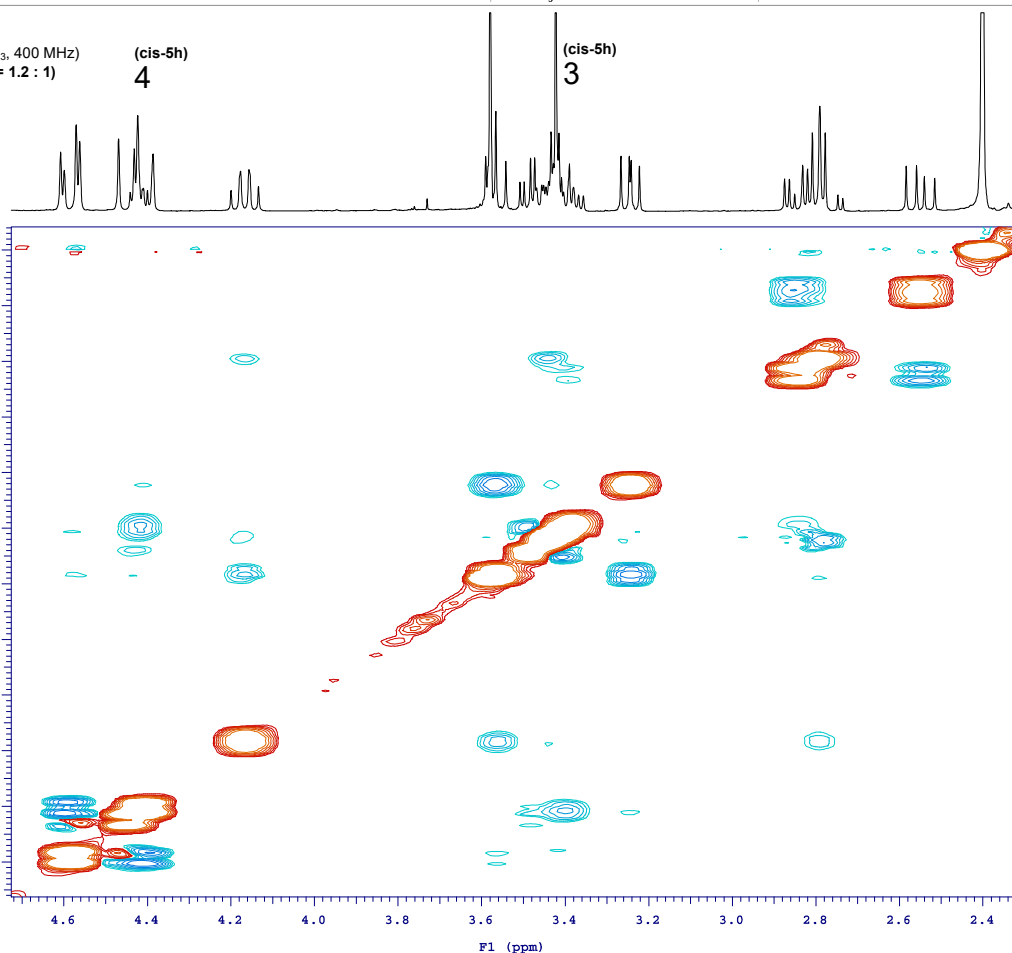
(cis-5h)  
4

(cis-5h)  
3

(cis-5h)  
4

(cis-5h)  
3

(cis-5h)  
4



SSS4

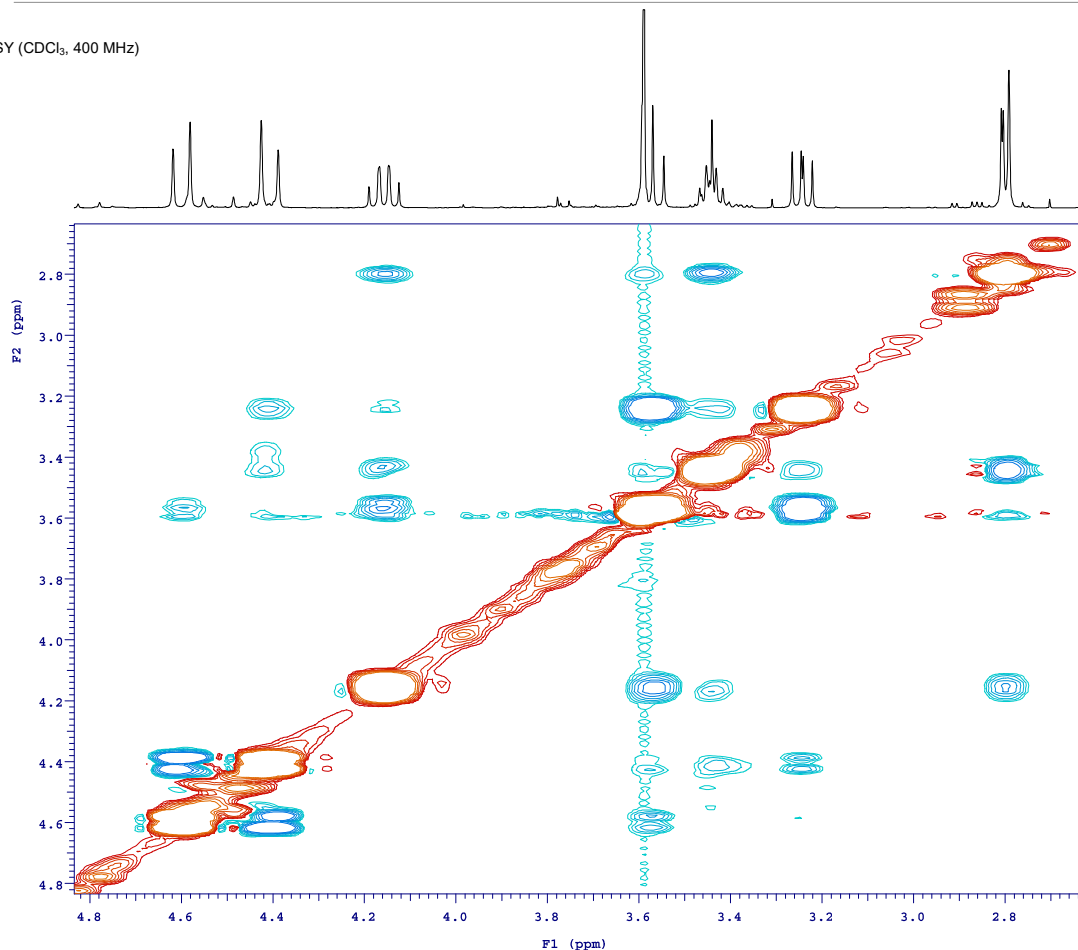
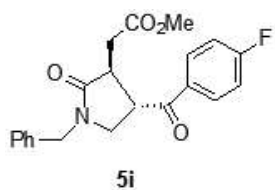
Data file: /home/vnmr1/vnmr/sy/data/wang9MePhCymix\_NOESY.fid

Plot date: 2023-01-09

wang9iPhCOcyc

SAMPLE		ssout	y
date	Sep 7 2022	PF GfG	y
solvent	cdcl3	hsghl	5820
sample			
ACQUISITION		SPECIAL	
temp	not used		
gain	38		
spin	0		
F2 PROCESSING			
gf	0.069		
gfs	not used		
fn	2048		
2D ACQUISITION		F1 PROCESSING	
sw1	4056.8	gf1	0.029
nt	128	gfs1	not used
		proc1	lp
		int	2048
TRANSMITTER		DISPLAY	
tn	H1	sc	200.0
slq	390.954	sc2	10.0
tol	-258.2	vc	200.0
tpwr	59	vc2	8.5
pw	12.000	vs	107
		th	2
		all	ph
NOESY		PLOT	
mixN	1,200	vc	200.0
		sc	10.0
		vc2	200.0
		vc2	8.5
		vs	107
		th	2
		all	ph
PRESATURATION		PLOT	
satmode	n	vc	200.0
wet	n	sc	10.0
		vc2	200.0
		vc2	8.5
		vs	107
		th	2
		all	ph
DECOUPLER		PLOT	
dm	C13	vc	200.0
dm	nnn	sc	10.0
		vc2	200.0
		vc2	8.5
		vs	107
		th	2
		all	ph
FLAGS		PLOT	
hs	nm	vc	200.0
		sc	10.0
		vc2	200.0
		vc2	8.5
		vs	107
		th	2
		all	ph

NOESY (CDCl<sub>3</sub>, 400 MHz)  
5i



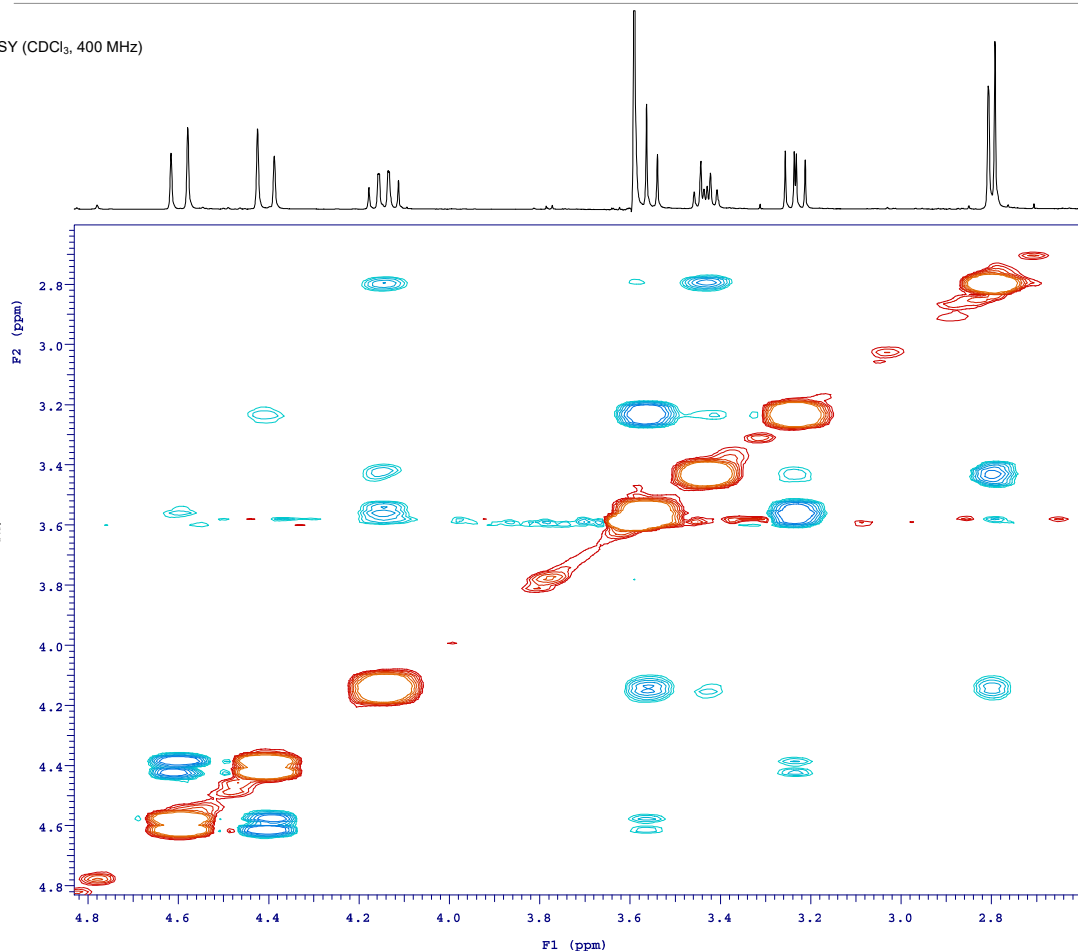
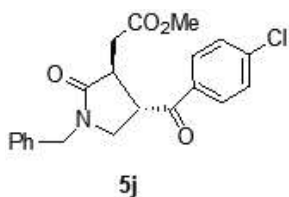
Data file: /home/vnmr1/vnmr/sys/data/wang9iPhCOcyc\_NOESY.fid

Plot date: 2023-01-09

torii4ClPhCOcyc

SAMPLE		ssout	y
date	Oct 24 2022	PF GfG	y
solvent	cdcl3	hsghl	5820
sample			
ACQUISITION		SPECIAL	
temp	not used		
gain	42		
spin	0		
F2 PROCESSING			
gf	0.069		
gfs	not used		
fn	2048		
2D ACQUISITION		F1 PROCESSING	
sw1	4128.0	gf1	0.029
nt	128	gfs1	not used
		proc1	lp
		int	2048
TRANSMITTER		DISPLAY	
tn	H1	sc	200.0
slq	390.954	sc2	10.0
tol	-205.7	vc	200.0
tpwr	59	vc2	8.5
pw	12.000	vs	104
		th	2
		all	ph
NOESY		PLOT	
mixN	1,200	vc	200.0
		sc	10.0
		vc2	200.0
		vc2	8.5
		vs	104
		th	2
		all	ph
PRESATURATION		PLOT	
satmode	n	vc	200.0
wet	n	sc	10.0
		vc2	200.0
		vc2	8.5
		vs	104
		th	2
		all	ph
DECOUPLER		PLOT	
dm	C13	vc	200.0
dm	nnn	sc	10.0
		vc2	200.0
		vc2	8.5
		vs	104
		th	2
		all	ph
FLAGS		PLOT	
hs	nm	vc	200.0
		sc	10.0
		vc2	200.0
		vc2	8.5
		vs	104
		th	2
		all	ph

NOESY (CDCl<sub>3</sub>, 400 MHz)  
5j



SSS5

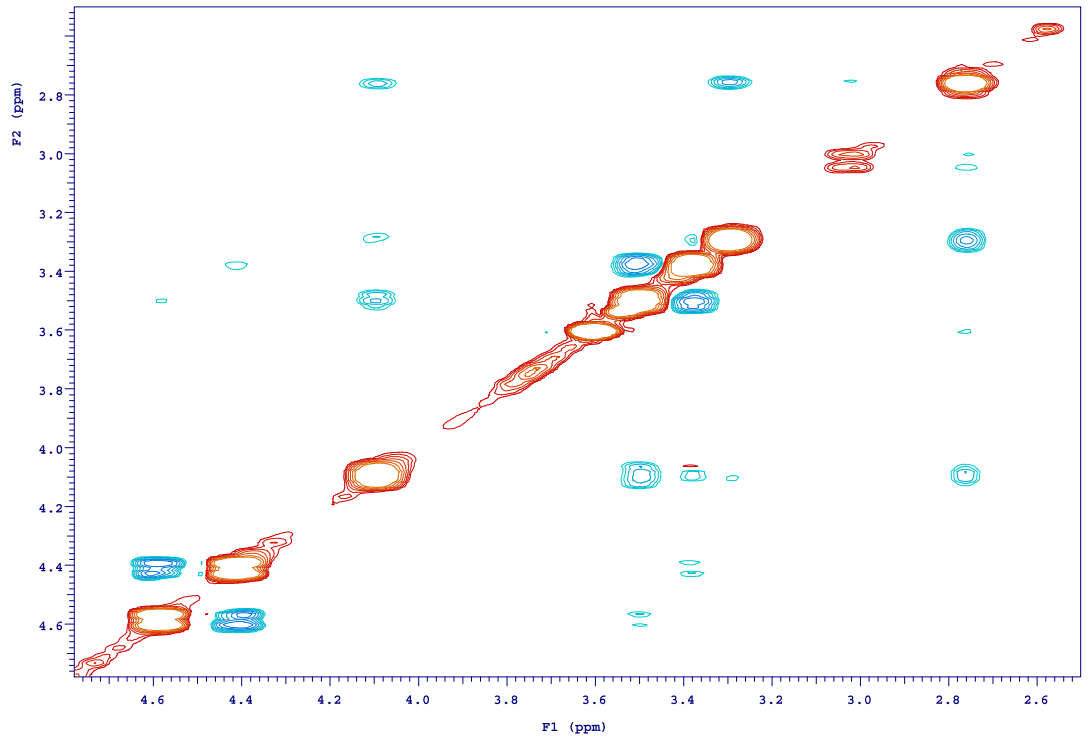
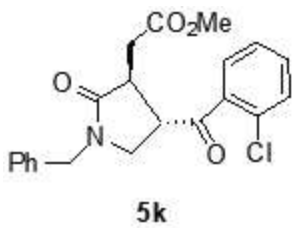
Data file: /home/vnmr1/vnmr/sys/data/torii4ClPhCOcyc\_NOESY.fid

Plot date: 2023-01-07

miyake12ZCICOPh

SAMPLE		ssol4	y
date	Dec 9 2022	PF01g	y
solvent	cdcl3	hsghl	5820
sample			
ACQUISITION		SPECIAL	
sw	3807.3	temp	not used
al	0.150	gain	38
rp	1140	spin	0
fb	not used	F2 PROCESSING	
ss	32	gf	0.060
d1	1.000	gfs	not used
nt	32	fn	2048
2D ACQUISITION		F1 PROCESSING	
sw1	3807.3	gf1	0.031
nt	128	gfs1	not used
proc1		proc1	lp
init		int	2048
TRANSMITTER		DISPLAY	
tn	H1	sp	1000.5
slrq	390.953	wp	910.9
tol	-458.9	sp1	1000.5
tpwr	59	wp1	910.9
pw	12.000	rf	356.6
NOESY		rfs	0
mixN	1.200	rf1	356.6
rp1		rfs1	0
PRESATURATION		PLOT	
satmode	n	wc	200.0
wet	n	sc	10.0
DECOUPLER		wc2	200.0
dm	C13	sc2	8.5
dm	nnn	wp	173
th		rf	2
al	ph		
FLAGS			
hs	nm		

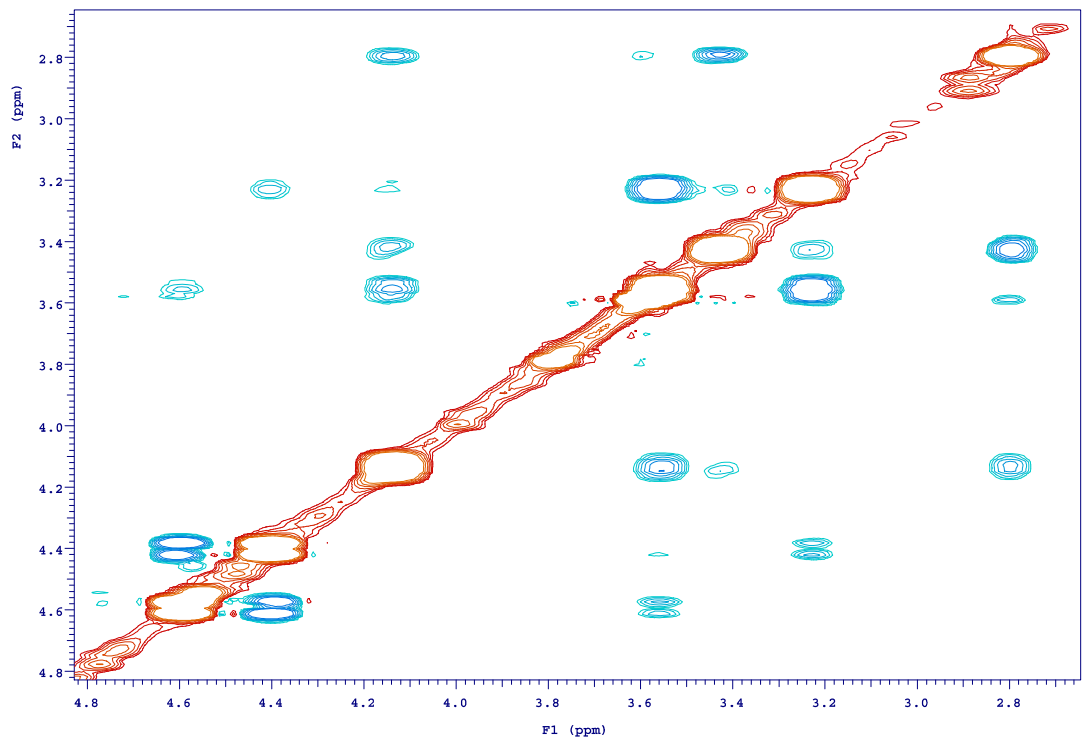
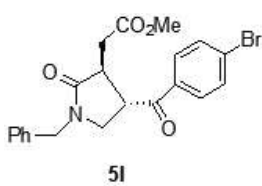
NOESY (CDCl<sub>3</sub>, 400 MHz)  
5k



Data file: home\vnmr1\wnmrsys\data\miyake12ZCICOPh\_NOESY.fid

Plot date: 2023-01-07

NOESY (CDCl<sub>3</sub>, 400 MHz)  
5l

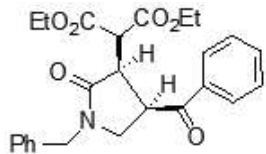


SSS6

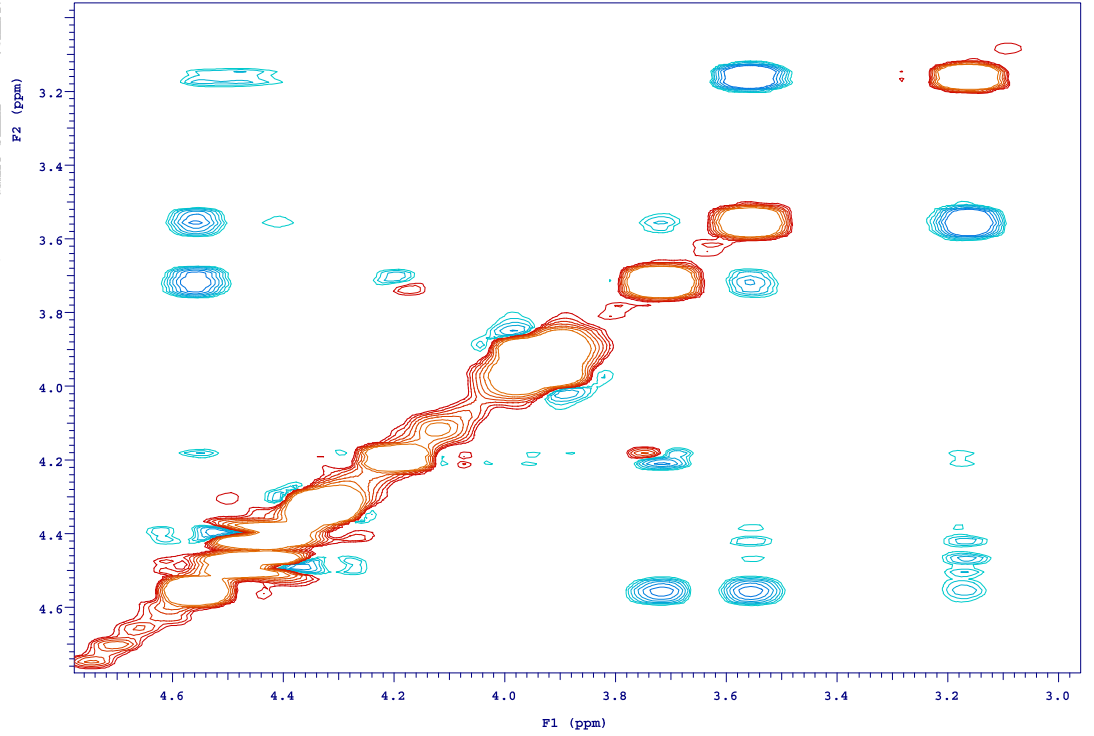
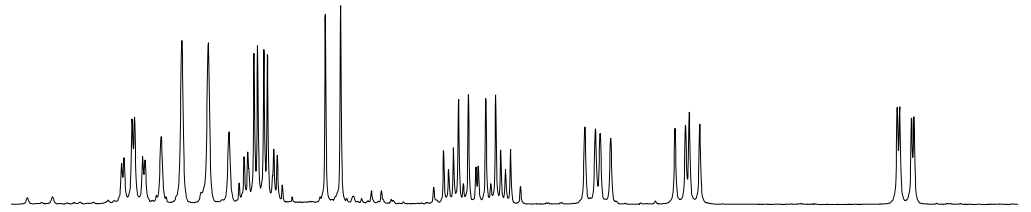
Data file: home\vnmr1\wnmrsys\data\wang1018PNCOCyc\_NOESY.fid

Plot date: 2023-01-13

NOESY (CDCl<sub>3</sub>, 400 MHz)  
7a



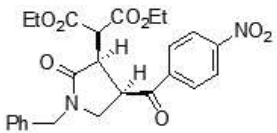
7a



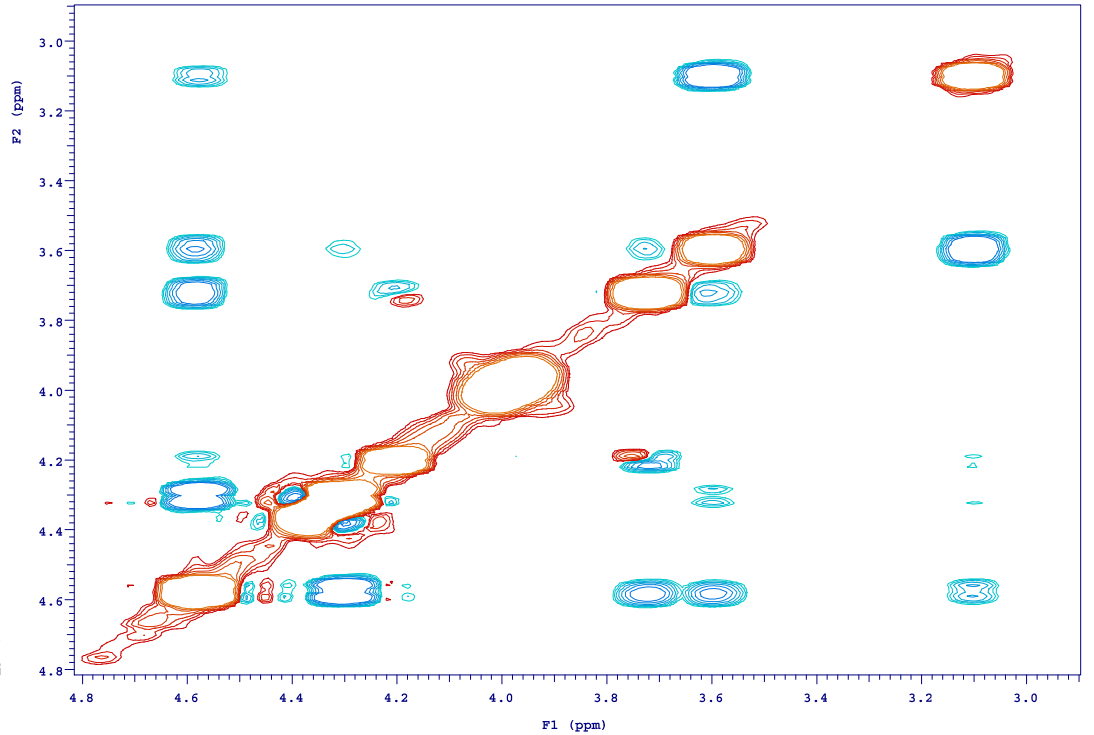
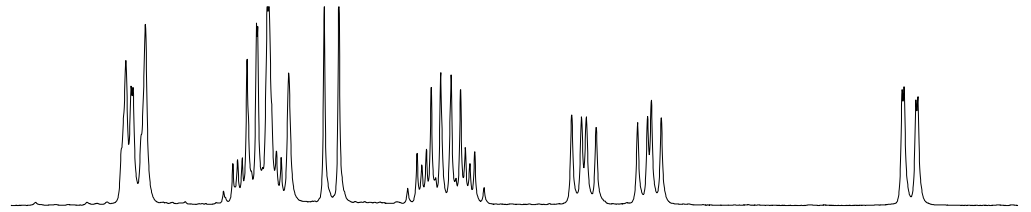
Data file: home\vnmr1\vnmr\sys\data\wang10\GEPHCycR\_NOESY.fid

Plot date: 2023-01-11

NOESY (CDCl<sub>3</sub>, 400 MHz)  
7b



7b



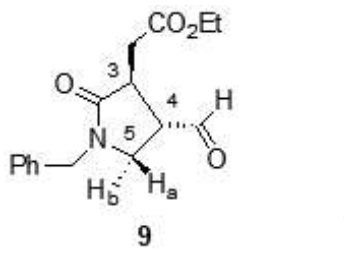
SSS7

Data file: home\vnmr1\vnmr\sys\data\wang10\GEpNO2PhCycR\_NOESY.fid

Plot date: 2023-01-11

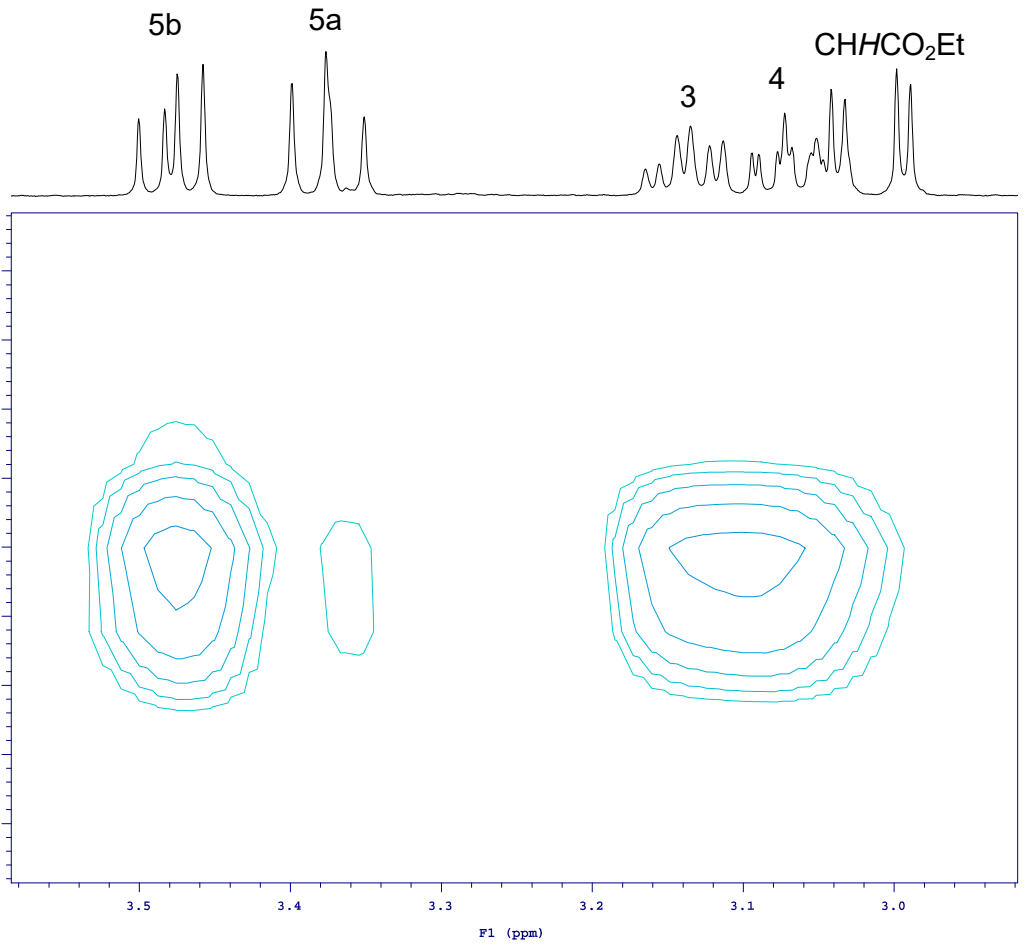
wang10/Et2CCHCyc

NOESY (CDCl<sub>3</sub>, 400 MHz)  
9\_1



CHO

F2 (ppm)

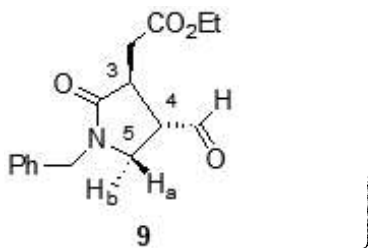


Data file: home/vnmr1/vnmr/sys/data/wang10/Et2CCHCyc\_NOESY.tid

Plot date: 2023-01-20

NOESY (CDCl<sub>3</sub>, 400 MHz)  
9\_2

wang10/Et2CCHCyc



CHHCO<sub>2</sub>Et

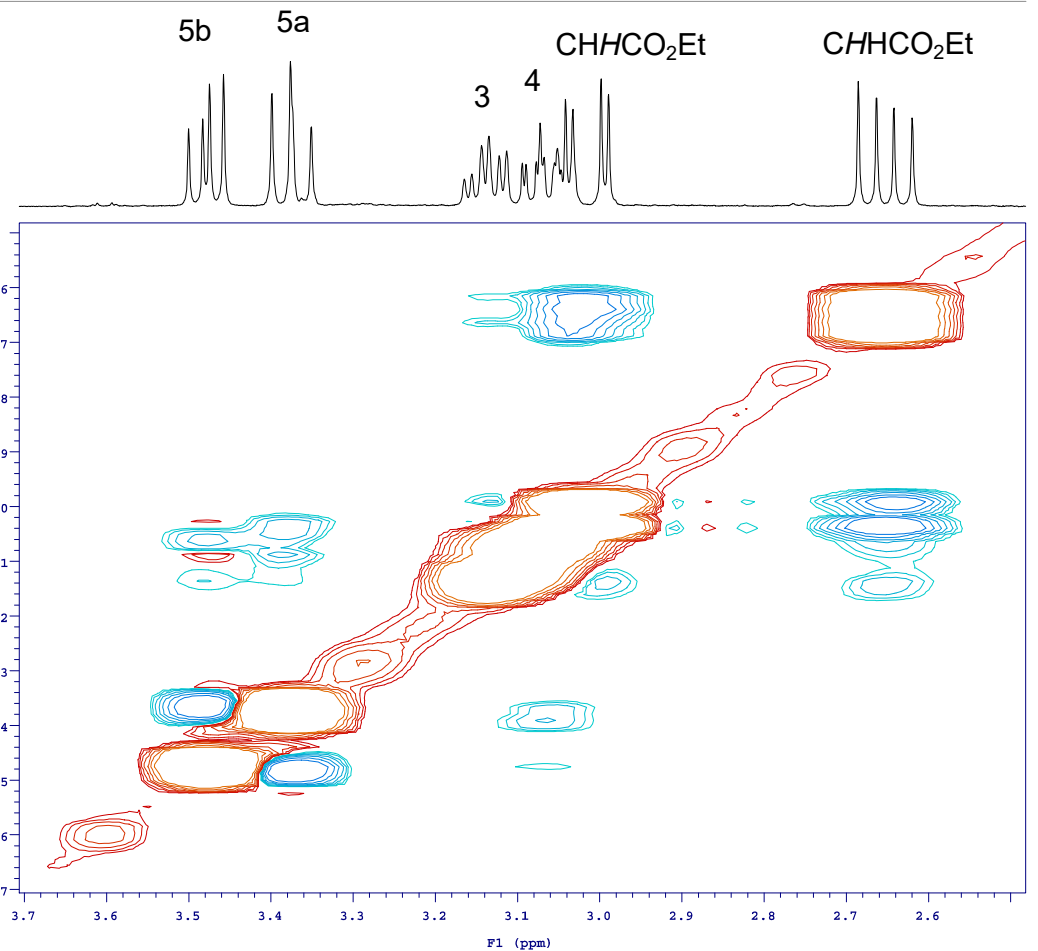
CHHCO<sub>2</sub>Et  
4

3

5a

5b

F2 (ppm)



SSS8

Data file: home/vnmr1/vnmr/sys/data/wang10/Et2CCHCyc\_NOESY.tid

Plot date: 2023-01-20