

Parameter set	Pulse programme	Comments
awproton30	zg30	30 degree pulse
awproton45	awzg45	45 degree pulse
awproton90	zg	90 degree pulse
awproton	zg	90 degree pulse
awprotonpr	zgpr	PR at pl9 at O1 (F1)
awprotonprf1prf2	awprotonprf1prf2	PR at pl9 at O1( F1) and pl21 at O2(F2)
awprotones	zgesgp	ES at O1 on F1, P40 = 2000 usec, SPNAM10 = squa100.1000
awprotonespr	awprotonespr	ES and PR at pl9 at O1 on F1 + PR at pl21 at O2(F2)
awprotonesprf1prf2	awprotonesprf1prf2	ES and PR at pl9 at O1 on F1
awprotonhd	zghd	hd at O2 during FID acquisition
awprotonhd.2	zghd.2	hd at O2 during D1 + FID acquisition
awprotonhdpr	awzghdpr	hd at O2 during FID acqu + PR at O1 at PL9 during D1
awprotoneshd	awzgeshd	hd at O2 during FID acqu + ES at O1 during D1
awprotoneshdpr	awzgeshdpr	hd at O2 during FID acqu + ES and PR at pl9 at O1 during D1
awselcosy	selcogp	d4 = 1/4J = 40 msec
awseltocsy	selmlgp	d9 = 80 msec
awseldipsi2	seldigp	d9 = 80 msec
awselnoesy	selnogp4	d8 = 0.5 sec
awselroesy	selrogp	p15 = 250000 usec
awselroesy2	selrogp.2	p15 = 250000 usec
awselhsqc	awselhsqcgpsisp	O2 = 13C signal freq
awselhsqcnd	awselhsqcndgpsisp	O2 = 13C signal freq
awselhsqc-dipsi2	awselhsqcdigpsisp	O2 = 13C signal freq, d9 = 80 msec
awselhsqcnd-dipsi2	awselhsqcdigpndsisp	O2 = 13C signal freq, d9 = 80 msec

<b>Parameter set</b>	<b>Pulse programme</b>	<b>Comments</b>
awcosy	cosygpqf	with a p0 pulse
awtocsy	mlevph	d9 = 80 msec
awcleantocsy	awclmlev	d9 = 80 msec
awdipsi2	dippsi2ph	d9 = 80 msec
awnoesy	noesygpph	d8 = 0.5 sec
awroesy	roesyph	p15 = 250000 usec
awroesy2	roesyph.2	p15 = 250000 usec
awcosypr	cosygpprqf	with a p0 pulse
awcosyprf1prf2	awcosyprf1prf2	with a p0 pulse
awcosyprf2only	awcosyprf2only	with a p0 pulse
awcosyes	awcosyes	with a p0 pulse
awcosyespr	awcosyespr	with a p0 pulse
awcosyesprf1prf2	awcosyesprf1prf2	with a p0 pulse
awtocsypr	mlevphpr	d9 = 80 msec
awtocsyprf1prf2	awtocsyprf1prf2	d9 = 80 msec
awtocsyprf2only	awtocsyprf2only	d9 = 80 msec
awtocsyes	awtocsyes (or mlevsgpph)	d9 = 80 msec
awtocsyespr	awtocsyespr	d9 = 80 msec
awtocsyesprf1prf2	awtocsyesprf1prf2	d9 = 80 msec
awcleantocsypr	awclmlevpr	d9 = 80 msec
awcleantocsyprf1prf2	awclmlevprf1prf2	d9 = 80 msec
awcleantocsyprf2only	awclmlevprf2only	d9 = 80 msec
awcleantocsyes	awclmleves	d9 = 80 msec
awcleantocsyespr	aecleantocsyespr	d9 = 80 msec
awcleantocsyesprf1prf2	awcleantocsyesprf1prf2	d9 = 80 msec
awdipsi2pr	dipsi2phpr	d9 = 80 msec
awdipsi2prf1prf2	awdipsi2prf1prf2	d9 = 80 msec



Parameter set	Pulse programme	Comments
awcarbon30	zpgg30 (AVI), awzpgg30b (AVII)	DE = 60 usec in AVI pp's
awcarbon45	awzpgg45	DE = 18 usec in AVII pp's
awcarbon70	awzpgg70	so 42 usec inserted in AVII pp's
awcarbon90	zpgg (AVI) or awzpgg90 (AVII)	(42 + 18 = 60 usec)
awcaron30ig	zgig30 (AVI) or awzgif30 (AVII)	Baselines can be smoothed using
awcarbon45ig	awzgif45	multiabsn with n = 30 - 40
awcarbon70ig	awzgif70	
awcarbon70nd	awzg70nd	
awzrestse	awzrestse	cnst0 =70 (p0 = p1*cnst0/90)
awzrestseig	awzrestseig	cnst0 =70 (p0 = p1*cnst0/90)
awrestsend	awrestsend	cnst0 =70 (p0 = p1*cnst0/90)
awdep45	dept45	
awdep90	dept90	
awdep135	dept135	
awdep45sp	deptsp45	
awdep90sp	deptsp90	
awdep135sp	deptsp135	
awdept135q	deptqgpsp	cnst12 = 1.5, GPZ1 = GPZ2 = GPZ3 = 31
awdeptq	deptqgpsp	cnst12 = 1.5, GPZ1 = GPZ2 = 31, GPZ3 = 11
awdeptnd	deptnd	
awinept45	ineptrd	cnst11 = 6
awinept90	ineptrd	cnst11 = 4
awinept135	ineptrd	cnst11 = 3
awinept45sp	ineptrdsp	cnst11 = 6
awinept90sp	ineptrdsp	cnst11 = 4
awinept135sp	ineptrdsp	cnst11 = 3
awinepttnd	ineptnd	

awjmod	jmod	cnst11 = 1
awjmodq	jmod	cnst12 = 2
awjmodsp	awjmodsp	cnst11 = 1
awjmodqsp	awjmodsp	cnst12 = 2
awapt	apt	cnst11 = 1, p0 = 30 to 90 degree pulse
awaptq	apt	cnst12 = 2, p0 = 30 to 90 degree pulse
awaptsp	awaptsp	cnst11 = 1, p0 = 30 to 90 degree pulse
awaptqsp	awaptsp	cnst12 = 2, p0 = 30 to 90 degree pulse

Parameter set	Pulse programme	Comments
awhsqcetgp	hsqcetgp	not edited
awhsqcedetgp-135	awhsqcedetgp-135	d21 auto calc from cnst2
awhsqcedetgpsisp2.3-135	awhsqcedetgpsisp2.3-135	d21 + d24 auto calc from cnst2 (awhsqc135)
awhsqcedetgpsisp2.3-135pr	awhsqcedetgpsisp2.3-135pr	d21 + d24 auto calc from cnst2, pr (at pl9) at O1 (awhsqc135pr)
awhsqcedetgpsisp2.3-135adia	awhsqcedetgpsisp2.3-135	d21 + d24 auto calc from cnst2, bi_p5m4sp_4sp.2
awhsqc-tocsy	hsqcetgpml	d9 = 80 msec (not edited)
awhsqc-dipsi2.45	awhsqcdipsi2.45	d9 = 80 msec, d21 auto calc from cnst2
awhsqc-dipsi2.135	awhsqcdipsi2.135	d9 = 80 msec, d21 and d24 auto calc from cnst2
awhsqc-noesy	hsqcetgpnoesp	d8 = 0.5 sec
awhsqc-roesy	hsqcetgprosp	p15 = 200000 usec
awhsqc-roesy2	hsqcetgprosp.2	p15 = 200000 usec
awhmbc	hmbcgpplndqf	cnst13 = 8 Hz
awhmbcpr	awhmbcgpplndprqf	cnst13 = 8 Hz, pr (at pl9) at O1
awhmbcl2	hmbcgppl2ndqf	cnst6 = 125 Hz, cnst7 = 165 Hz, cnst 13 = 8 Hz
awhmbc-cigar	hmbcacgpplqf	cnst6 = 125 Hz, cnst7 = 165 Hz, cnst 14 = 6 Hz, cnst 15 = 16 Hz, cnst16 = 1
awshmbc	shmbcctetgppl2nd	cnst6 = 125 Hz, cnst7 = 165 Hz, cnst 13 = 8 Hz, proc with xfb + xf2m
awh2bc	h2bcetgppl3	process with xfb + xf2m
awhxdept45 (AVI)	awhxdept45	p0 defined in pp as P3*0.5 (45 deg)
awhxdept90 (AVI)	awhxdept90	p0 defined in pp as P3*1.0 (90 deg)
awhxdept135 (AVI)	awhxdept1355	p0 defined in pp as P3*1.5 (135 deg)
awhxdeptqf (AVI)	hxdeptqf	final pulse defined as P3*0.5 ( 45 deg)
awhxdept45 (AVII)	hxdeptph	p0 = 45 degree
awhxdept90 (AVII)	hxdeptph	p0 = 90 degree
awhxdept135 (AVII)	hxdeptph	p0 = 135 degree
awhxdeptqf (AVII)	hxdeptqf	p0 = 45 degree

awhetcor  
awhetcorlr

hxcoqf  
hxcoqf

cnst2 = 145 Hz, cnst11 =3 (used to calc d3)  
cnst2 = 10 Hz, cnst11 =3 (used to calc d3)

awcoloc  
awcolocl

colocqf  
awcolocqf

d6 = 50 msec, d18 = 30 msec  
d6 + d18 auto calc from cnst21 (= 10 Hz)