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 = 35-40 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

Parameter set	Pulse progpramme	Comments
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	mlevesgpph (or awtocsyes)	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	awcleantocsyespr	d9 = 80 msec
awcleantocsyesprf1prf2	awcleantocsyesprf1prf2	d9 = 80 msec
awdipsi2pr	dipsi2phpr	d9 = 80 msec
awdipsi2prf1prf2	awdipsi2prf1prf2	d9 = 80 msec

awdipsi2prf2only	awdipsi2prf2only	d9 = 80 msec
awdipsi2es	awdipsi2es	or dipsi2esgph
awdipsi2espr	awdipsi2espr	d9 = 80 msec
awdipsi2esprf1prf2	awdipsi2esprf1prf2	d9 = 80 msec
awnoesypr	awnoesygppr	d8 = 0.5 sec
awnoesyprf1prf2	awnoesygpprf1prf2	d8 = 0.5 sec
awnoesyprf2only	awnoesygpprf2only	d8 = 0.5 sec
awnoesyes	noesyesgpph	d8 = 0.5 sec
awnoesyespr	awnoesygpespr	d8 = 0.5 sec
awnoesyesprf1prf2	awnoesygpesprf1prf2	d8 = 0.5 sec
awroesypr	roesyphpr	p15 = 250000 usec
awroesyprf1prf2	awroesyprf1prf2	p15 = 250000 usec
awroesyprf2only	awroesyprf2only	p15 = 250000 usec
awroesyes	roesyesgpph	p15 = 250000 usec
awroesyespr	awroesyespr	p15 = 250000 usec
awroesyesprf1prf2	awroesyesprf1prf2	p15 = 250000 usec
awroesy2pr	roesyphpr.2	p15 = 250000 usec
awroesy2prf1prf2	awroesy2prf1prf2	p15 = 250000 usec
awroesy2prf2only	awroesy2prf2only	p15 = 250000 usec
awroesy2es	roesyesgpph.2	p15 = 250000 usec
awroesy2espr	awroesy2espr	p15 = 250000 usec
awroesy2esprf1prf2	awroesy2esprf1prf2	p15 = 250000 usec
awcosybfprf1bfprf2	awcosybfprf1bfprf2	Uses cnst1, cnst9 and cnst21
awtocsybfprf1bfprf2	awtocsybfprf1bfprf2	Uses cnst1, cnst9 and cnst21
awdipsi2bfprf1bfprf2	awdipsi2bfprf1bfprf2	Uses cnst1, cnst9 and cnst21
awnoesybfprf1bfprf2	awnoesybfprf1bfprf2	Uses cnst1, cnst9 and cnst21
awroesybfprf1bfprf2	awroesybfprf1bfprf2	Uses cnst1, cnst9 and cnst21
awroesy2bfprf1bfprf2	awroesy2bfprf1bfprf2	Uses cnst1, cnst9 and cnst21

Parameter set	Pulse programme	Comments
awcarbon30	zgpg30	
awcarbon45	awzgpg45	
awcarbon70	awzgpg70	
awcarbon90	zgpg	
awcaron30ig	zgig30	
awcarbon70ig	awzgig70	
awcarbon70nd	awzg70nd	
awcarbonp0	awcarbpnp0	p0 = p1*cnst0/90, baseopt mode acqu
awcarbonp0ig	awcarbpnp0ig	p0 = p1*cnst0/90, baseopt mode acqu
awcarbonp0nd	awcarbpnp0nd	p0 = p1*cnst0/90, baseopt mode acqu
awzrestse	zrestse.dp.jcm800	p0 = p1*cnst0/90
awzrestseig	awzrestseig	p0 = p1*cnst0/90
awrestsend	awzrestsend	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	cnst11 = 1
awjmodsp	awjmodsp	cnst11 = 1
awjmodqsp	awjmodsp	cnst11 = 1
awapt	apt	cnst11 = 1, p0 = 30 to 90 degree pulse
awaptq	apt	cnst11 = 1, p0 = 30 to 90 degree pulse
awaptsp	awaptsp	cnst11 = 1, p0 = 30 to 90 degree pulse
awaptqsp	awaptsp	cnst11 = 1, 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)
awhsqcetgpsisp2.2-45	awhsqcetgpsisp2.2-45	d24 auto calc from cnst2	
awhsqc-tocsy	hsqcetgpml	d9 = 80 msec (not edited)	
awhsqc-dipsi2.45	awhsqcdipsi2.45	d9 = 80 msec, d24 auto calc from cnst2	
awhsqc-dipsi2.135	awhsqcdipsi2.135	d9 = 80 msec, d21 and d24 auto calc from cnst2	
awhsqc-noesy	hsqcetgpnosp	d8 = 0.5 sec	
awhsqc-roesy	hsqcetgprosp	p15 = 200000 usec	
awhsqc-roesy2	hsqcetgprosp.2	p15 = 200000 usec	
awhmbc	hmbcgplpndqf	cnst13 = 8 Hz	
awhmbcpr	awhmbcgplpndprqf	cnst13 = 8 Hz, pr (at pl9) at O1	
awhmbcl2	hmbcgpl2ndqf	cnst6 = 125 Hz, cnst7 = 165 Hz, cnst 13 = 8 Hz	
awhmbc-cigar	hmbcacgplpqf	cnst6 = 125 Hz, cnst7 = 165 Hz, cnst 14 = 6 Hz, cnst 15 = 16 Hz, cnst16 = 1	
awshmbc	shmbcctetgpl2nd	cnst6 = 125 Hz, cnst7 = 165 Hz, cnst 13 = 8 Hz, proc with xfb + xf2m	
awh2bc	h2bcetgpl3	process with xfb + xf2m	
awhxdept45	hxdeptph	p0 = 45 degree (cnst12 = 0.5)	
awhxdept90	hxdeptph	p0 = 90 degree (cnst12 = 1.0)	
awhxdept135	hxdeptph	p0 = 135 degree (cnst12 = 1.5)	
awhxdeptqf	hxdeptqf	p0 = 45 degree (cnst12 = 0.5)	
awhetcor	hxcoqf	cnst2 = 145 Hz, cnst11 =3 (used to calc d3)	
awhetcorlr	hxcoqf	cnst2 = 10 Hz, cnst11 =3 (used to calc d3)	
awcoloc	colocqf	d6 = 50 msec, d18 = 30 msec	
awcoloclr	awcolocqf	d6 + d18 auto calc from cnst21 (= 10 Hz)	