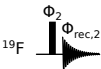
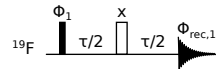
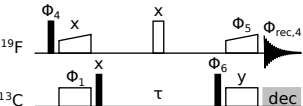
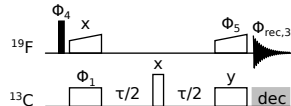


(a) 1D ^{19}F  ^{13}C **dec** ^1H **dec****(b)** p-2D ^{19}F sat. recovery T_1  ^{13}C **dec** ^1H **dec****(c)** p-2D ^{19}F T_2  ^{13}C **dec** ^1H **dec****(d)** p-2D ^{13}C T_1  ^{13}C **dec** ^1H **dec****(e)** p-2D ^{13}C T_2  ^{13}C **dec** ^1H **dec**

$\Phi_1 = y, -y$

$\Phi_4 = 2(y), 2(-y)$

$\Phi_{\text{rec},1} = y, -y$

$\Phi_{\text{rec},3} = y, -y, -y, y, -y, y, y, -y$

$\Phi_2 = x, -x, y, -y$

$\Phi_5 = 4(y), 4(-y)$

$\Phi_{\text{rec},2} = x, -x, y, -y$

$\Phi_{\text{rec},4} = y, -y, -y, y, 2(-y, y, y, -y),$

$\Phi_3 = y, -y, x, -x$

$\Phi_6 = 8(-x), 8(x)$

$y, -y, -y, y$