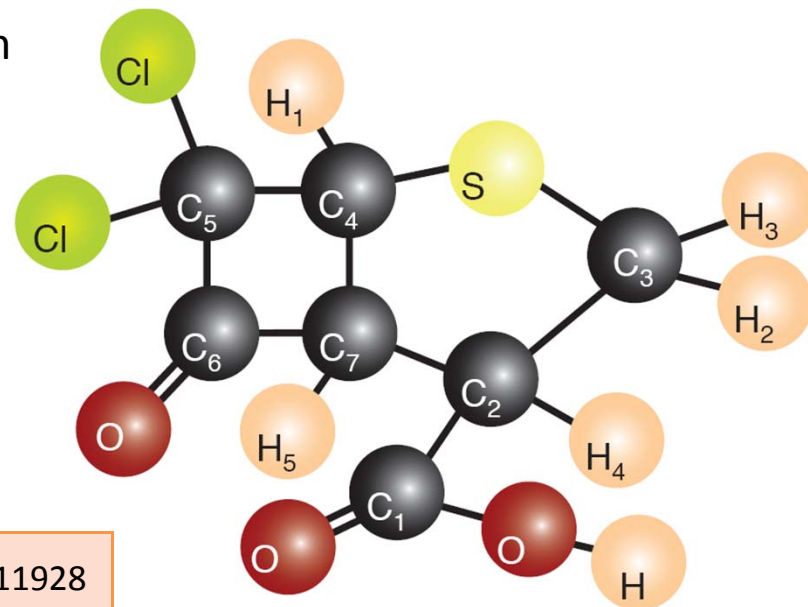
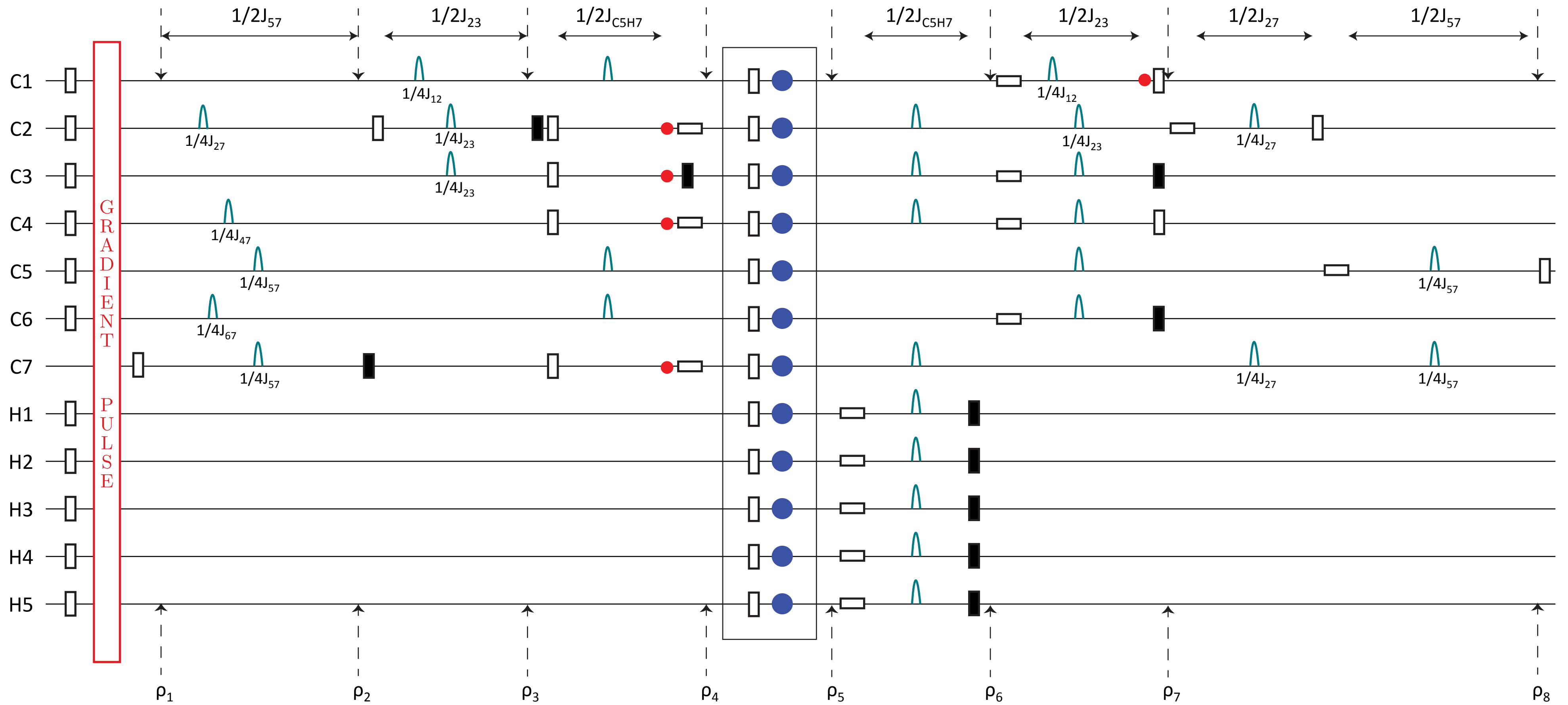


	C1	C2	C3	C4	C5	C6	C7	H1	H2	H3	H4	H5
C1	30020	C-13 labeled 12-qubit system										
C2	57.58	8779	Dichloro-cyclobutanone									
C3	-2.00	32.70	6245									
C4	0	0.30	0	10333								
C5	-1.25	2.62	1.11	33.16	15745							
C6	5.54	-1.66	0	-3.53	33.16	34381						
C7	1.25	37.48	0.94	29.02	-21.75	34.57	11928					
H1	0	0	2.36	166.6	4.06	5.39	8.61	3310				
H2	4.41	1.86	146.6	2.37	0	0	0	0	2468			
H3	1.81	3.71	146.6	2.37	0	0	0	0.18	-12.41	2158		
H4	-13.19	133.6	-6.97	6.23	0	5.39	3.78	-0.68	1.28	6.00	2692	
H5	7.87	-8.35	3.35	8.13	2.36	8.52	148.5	8.46	-1.06	-0.36	1.30	3649
T1	8.015	3.611	1.834	3.722	12.95	8.157	3.636	3.831	2.128	2.278	2.654	3.472
T2	1.611	0.877	1.122	0.792	1.143	1.912	0.531	0.337	N/A	N/A	0.318	0.276





$R_x(\pi/2)$	$R_y(\pi/2)$	$R_y(\pi/2)$	$R_x(\pi)$	Z Rotation	Phase Correction

Simulated Fidelity			
1	$\rho_1 = Z_7$		
1	$\rho_2 = Z_2 Z_4 Z_5 Z_6 Z_7$	$I^{\pm} = I_x \pm iI_y$	
		$A_1 = \cos[2\pi(\omega_1 - O_1)/2]_{C7H5} - i\sin[2\pi(\omega_1 - O_1)/2]_{C7H5}$	
		$A_5 = \cos[2\pi(\omega_5 - O_1)/2]_{C7H5} - i\sin[2\pi(\omega_5 - O_1)/2]_{C7H5}$	
1	$\rho_3 = Z_1 Z_2 Z_3 Z_4 Z_5 Z_6 Z_7$	$A_6 = \cos[2\pi(\omega_6 - O_1)/2]_{C7H5} - i\sin[2\pi(\omega_6 - O_1)/2]_{C7H5}$	
		$A_7 = \{\cos[2\pi(\omega_7 - O_1)/2]_{23} + i\sin[2\pi(\omega_7 - O_1)/2]_{23}\}^* \prod_{k=8}^{12} \{\cos[\pi]_{7k}/2]_{23} + i\sin[\pi]_{7k}/2]_{23}\}$	
0.95	$\rho_4 = Z_1 Z_2 Z_3 Z_4 Z_5 Z_6 Z_7 Z_8 Z_9 Z_{10} Z_{11} Z_{12}$	$B_5 = \{\cos[2\pi(\omega_5 - O_1)/2]_{27} + i\sin[2\pi(\omega_5 - O_1)/2]_{27}\}^* \prod_{k \neq 2,5,7} \{\cos[\pi]_{5k}/2]_{27} + i\sin[\pi]_{5k}/2]_{27}\}$	
0.9511	$\rho_5 = \prod_{i=1}^{12} I_i^+ + \prod_{i=1}^{12} I_i^-$		
0.8717	$\rho_6 = (A_1 A_5 A_6 I_1^+ I_2^- I_3^- I_4^- I_5^+ I_6^+ I_7^- + A'_1 A'_5 A'_6 I_1^- I_2^+ I_3^+ I_4^+ I_5^- I_6^- I_7^+)  00000\rangle$		
0.8570	$\rho_7 = (A_1 A_5 A_6 A_7 I_2^+ I_5^- I_7^- + A'_1 A'_5 A'_6 A'_7 I_2^- I_5^+ I_7^+)  000000000\rangle$		
0.8570	$\rho_8 = (A_1 A_5 A_6 A_7 B_5 I_7^- + A'_1 A'_5 A'_6 A'_7 B'_5 I_7^+)  00000000000\rangle$		

