

Table S4. The results of fit and the data files for the SPFIT program for the S state of the 37Cl1,37Cl2 species of (HCl)2 H2O.

(H2O)(HCl)2 37Cl1+37Cl2										Mon Mar 14 09:58:10 2011									
										obs	o-c	error	blends		Notes				
/ instead of : below denotes (o-c)>3*err													o-c	wt					
1:	1	1	1	3	3	0	0	0	3	3	6036.9209	0.0016	0.010						
2:	1	1	1	3	4	0	0	0	3	3	6044.9106	-0.0008	0.010						
3:	1	1	1	3	2	0	0	0	3	3	6053.3162	0.0074	0.010						
4:	2	1	2	3	2	1	0	1	3	2	8788.5079	0.0168	0.010	0.0107	0.40				
5:	2	1	2	2	3	1	0	1	3	2	8788.5079	0.0066	0.010	0.0107	0.60				
6:	2	1	2	0	2	1	0	1	0	1	8791.7670	0.0058	0.010						
7:	2	1	2	3	4	1	0	1	3	4	8792.2218	0.0089	0.010						
8:	2	1	2	1	3	1	0	1	1	2	8798.0921	-0.0045	0.010						
9:	2	1	2	3	5	1	0	1	3	4	8800.0745	0.0038	0.010						
10:	2	1	2	3	3	1	0	1	2	2	8800.5519	-0.0128	0.010						
11:	2	1	2	1	2	1	0	1	1	2	8802.8203	-0.0017	0.010						
12:	2	1	2	2	2	1	0	1	0	1	8803.5238	0.0035	0.010						
13:	2	1	2	2	4	1	0	1	3	3	8804.6512	0.0044	0.010						
14:	4	0	4	2	5	3	1	3	2	4	10971.4316	0.0014	0.010						
15:	4	0	4	1	4	3	1	3	0	3	10971.7655	0.0060	0.010	0.0126	0.78				
16:	4	0	4	3	2	3	1	3	3	1	10971.7655	0.0366	0.010	0.0126	0.22				
17:	4	0	4	3	6	3	1	3	3	5	10972.4071	-0.0032	0.010						
18:	4	0	4	3	7	3	1	3	3	6	10972.8502	-0.0066	0.010	-0.0100	0.65				
19:	4	0	4	0	4	3	1	3	1	3	10972.8502	-0.0162	0.010	-0.0100	0.35				
20:	4	0	4	2	4	3	1	3	2	3	10973.4506	-0.0030	0.010						
21:	4	0	4	3	5	3	1	3	3	4	10974.0557	-0.0069	0.010						
22:	4	0	4	2	3	3	1	3	3	2	10974.1879	0.0100	0.010						
23:	4	0	4	1	5	3	1	3	1	4	10974.3981	-0.0047	0.010						
24:	4	0	4	2	6	3	1	3	2	5	10975.0116	-0.0006	0.010						
25:	3	1	3	1	2	2	0	2	2	1	11291.7144	-0.0208	0.010						
26:	3	1	3	3	2	2	0	2	0	2	11292.0163	-0.0037	0.010						
27:	3	1	3	3	4	2	0	2	1	3	11294.6917	-0.0004	0.010						
28:	3	1	3	1	4	2	0	2	2	3	11294.8408	-0.0013	0.010						
29:	3	1	3	2	4	2	0	2	3	3	11296.0840	-0.0037	0.010						
30:	3	1	3	2	3	2	0	2	2	2	11296.2523	-0.0092	0.010						
31:	3	1	3	3	5	2	0	2	3	4	11298.4230	0.0107	0.010						
32:	3	1	3	3	6	2	0	2	3	5	11298.8394	0.0062	0.010						
33:	3	1	3	0	3	2	0	2	1	2	11301.0660	0.0113	0.010						
34:	5	0	5	2	4	4	1	4	2	3	14295.2060	0.0000	0.010						
35:	5	0	5	2	6	4	1	4	2	5	14295.7160	-0.0024	0.010						
36:	5	0	5	3	5	4	1	4	3	4	14296.4247	-0.0023	0.010	-0.0049	0.27				
37:	5	0	5	0	5	4	1	4	0	4	14296.4247	0.0031	0.010	-0.0049	0.31				
38:	5	0	5	3	7	4	1	4	3	6	14296.4247	-0.0126	0.010	-0.0049	0.42				
39:	5	0	5	3	8	4	1	4	3	7	14296.6756	0.0050	0.010	0.0081	0.65				
40:	5	0	5	2	3	4	1	4	2	3	14296.6756	0.0203	0.010	0.0081	0.04				
41:	5	0	5	1	4	4	1	4	1	3	14296.6756	0.0127	0.010	0.0081	0.31				
42:	5	0	5	1	6	4	1	4	1	5	14297.3805	0.0009	0.010						
43:	5	0	5	2	7	4	1	4	2	6	14297.6041	-0.0011	0.010						
44:	2	2	1	2	4	1	1	0	3	3	15365.4745	0.0074	0.010						
45:	2	2	1	3	2	1	1	0	2	2	15367.6467	-0.0071	0.010						
46:	2	2	1	2	3	1	1	0	1	2	15369.4200	0.0018	0.010						
47:	2	2	1	2	4	1	1	0	2	3	15372.0641	-0.0023	0.010						
48:	2	2	1	3	5	1	1	0	3	4	15377.2676	-0.0018	0.010						
49:	2	2	1	1	2	1	1	0	1	1	15380.0819	-0.0060	0.010						
50:	2	2	1	1	3	1	1	0	2	3	15382.3044	-0.0172	0.010						
51:	2	2	1	3	4	1	1	0	2	3	15383.3083	0.0430	0.010	0.0058	0.69				
52:	2	2	1	2	2	1	1	0	2	2	15383.3083	-0.0761	0.010	0.0058	0.31				
53:	2	2	1	3	3	1	1	0	3	2	15384.5829	-0.0053	0.010						
54:	2	2	1	3	4	1	1	0	3	4	15385.4687	0.0049	0.010						
55:	5	1	5	3	4	4	0	4	2	3	15981.4692	0.0067	0.010						
56:	5	1	5	3	5	4	0	4	3	4	15981.6074	0.0045	0.010						

57:	5	1	5	3	6	4	0	4	3	5	15981.9223	0.0100	0.010
58:	5	1	5	2	7	4	0	4	2	6	15982.3750	-0.0047	0.010
59:	5	1	5	2	5	4	0	4	2	4	15982.6685	0.0119	0.010
60:	5	1	5	2	6	4	0	4	2	5	15984.8973	-0.0267	0.010
61:	5	1	5	3	7	4	0	4	3	6	15985.1249	0.0064	0.010
62:	5	1	5	3	8	4	0	4	3	7	15985.5879	-0.0053	0.010

63:	2	2	0	1	2	1	1	1	1	1	16030.1809	-0.0077	0.010		
64:	2	2	0	2	1	1	1	1	3	2	16031.1913	-0.0038	0.010	-0.0004	0.57
65:	2	2	0	3	2	1	1	1	3	2	16031.1913	0.0041	0.010	-0.0004	0.43
66:	2	2	0	2	3	1	1	1	1	2	16036.0963	-0.0046	0.010		
67:	2	2	0	1	3	1	1	1	3	2	16037.1300	-0.0063	0.010		
68:	2	2	0	3	2	1	1	1	2	3	16037.3749	0.0068	0.010		
69:	2	2	0	3	5	1	1	1	3	4	16037.6602	0.0007	0.010		
70:	2	2	0	3	3	1	1	1	1	2	16039.1496	0.0037	0.010		
71:	2	2	0	3	2	1	1	1	0	1	16040.2708	0.0088	0.010		
72:	2	2	0	3	4	1	1	1	2	3	16043.9365	0.0070	0.010		
73:	2	2	0	1	3	1	1	1	1	2	16045.0922	-0.0010	0.010		
74:	2	2	0	2	1	1	1	1	2	1	16048.0070	0.0069	0.010		
75:	2	2	0	3	3	1	1	1	2	2	16049.5506	-0.0066	0.010		
76:	2	2	0	1	3	1	1	1	3	3	16053.5288	0.0029	0.010		

CORRELATION COEFFICIENTS, C.ij:

	A	B	C	-DJ	-DJK	1.5*Xaa	(Xb-Xc)/	1.5*Xaa
A	1.0000							
B	-0.6861	1.0000						
C	-0.0449	0.2633	1.0000					
-DJ	0.4814	-0.6588	-0.8272	1.0000				
-DJK	-0.9582	0.7020	-0.0410	-0.4411	1.0000			
1.5*Xaa	-0.0228	0.0517	-0.1889	0.1058	0.0872	1.0000		
(Xb-Xc)/4	0.0473	0.0323	0.0553	-0.0401	-0.0539	-0.1362	0.0000	
1.5*Xaa	-0.0426	-0.0229	-0.2834	0.1833	0.1046	0.3261	-0.4748	0.0000
(Xb-Xc)/4	0.0736	-0.1046	-0.0146	0.0508	-0.1060	-0.0916	-0.2867	0.2469
(Xb-Xc)/								
(Xb-Xc)/4	0.0000							
Mean value of C.ij , i.ne.j =	0.2316							
Mean value of C.ij, i.ne.j =	-0.0754							

Worst fitting lines (obs-calc/error):

60:	-2.7	25:	-2.1	50:	-1.7	10:	-1.3
15:	1.3	59:	1.2	33:	1.1	4:	1.1
31:	1.1	22:	1.0	57:	1.0	18:	-1.0
78:	1.0	30:	-0.9	7:	0.9	71:	0.9
39:	0.8	63:	-0.8	3:	0.7	44:	0.7
45:	-0.7	72:	0.7	21:	-0.7	74:	0.7
68:	0.7	55:	0.7	75:	-0.7	61:	0.6
67:	-0.6	32:	0.6	49:	-0.6	51:	0.6
6:	0.6	62:	-0.5	53:	-0.5	36:	-0.5
54:	0.5	77:	-0.5	23:	-0.5	58:	-0.5
66:	-0.5	56:	0.4	8:	-0.4	13:	0.4
9:	0.4	29:	-0.4	70:	0.4	26:	-0.4
12:	0.3	17:	-0.3				

/ SPFIT output reformatted with PIFORM