Table A2: Transitions of ν_{3b} of ND_2H

	J'	K'_a	K'_c		J	K_a	K_c	$\tilde{\nu}_0^{\rm exp}/{\rm cm}^{-1}$	Δ	
s	0	0	0	s	1	0	1	2550.7084	−14	
s	1	0	1	s	0	0	0	2568.8468	−17	
s	1	0	1	s	2	0	2	2542.1903	−17	
s	1	1	0	s	2	1	1	2539.8329	−9	
s	1	1	0	s	1	1	1	2561.2328	−8	
s	1	1	1	s	2	1	2	2543.0741	−14	
s	1	1	1	s	1	1	0	2558.0577	−14	
s	2	0	2	s	1	0	1	2577.2038	−16	
s	2	0	2	s	3	0	3	2534.4320	−6	
s	2	1	1	s	2	1	2	2564.2941	−9	
s	2	1	1	s	1	1	0	2579.2781	−5	
s	2	1	1	s	3	1	2	2530.3102	−7	
s	2	1	2	s	2	1	1	2554.7754	−10	
s	2	1	2	s	1	1	1	2576.1752	−10	
s	2	1	2	s	3	1	3	2535.0502	−10	
s	2	2	0	s	2	2	1	2559.8493	11	
s	2	2	0	s	3	2	1	2529.8691	10	
s	2	2	1	s	2	2	0	2558.5877	5	
s	2	2	1	s	3	2	2	2531.9370	5	
s	3	0	3	s	2	0	2	2584.7178	−14	
s	3	0	3	s	4	0	4	2526.9508	−9	
s	3	1	2	s	2	1	1	2588.4389	−4	
s	3	1	2	s	4	1	3	2521.5079	−4	
s	3	1	2	s	3	1	3	2568.7136	−6	
s	3	1	3	s	2	1	2	2584.0134	−9	
s	3	1	3	s	4	1	4	2527.2224	−9	
s	3	1	3	s	3	1	2	2550.0290	−12	
s	3	2	1	s	2	2	0	2588.3710	4	
s	3	2	1	s	3	2	2	2561.7203	4	
s	3	2	1	s	4	2	2	2519.4019	−27	
s	3	2	2	s	3	2	1	2556.3594	4	
s	3	2	2	s	4	2	3	2523.2011	5	
s	3	2	2	s	2	2	1	2586.3398	7	
s	3	3	0	s	3	3	1	2558.7243	68	
s	3	3	0	s	4	3	1	2520.3812	69	
s	3	3	0	a	3	3	0	2558.3977	55	
s	3	3	1	s	3	3	0	2558.3977	44	
s	3	3	1	s	4	3	2	2521.2486	11	
s	3	3	1	a	3	3	1	2558.3300	7	
s	4	0	4	s	5	0	5	2519.4160	−5	
s	4	0	4	s	3	0	3	2591.9014	−3	
s	4	1	3	s	3	1	2	2596.7422	−2	
s	4	1	3	s	4	1	4	2573.9376	21	
s	4	1	3	s	5	1	4	2513.5600	−2	
s	4	1	4	s	4	1	3	2544.3844	−4	
s	4	1	4	s	3	1	3	2591.5905	−2	
s	4	1	4	s	5	1	5	2519.5089	0	
s	4	2	2	s	5	2	3	2509.4679	−23	
s	4	2	2	s	4	2	3	2565.2017	5	
s	4	2	2	s	3	2	1	2598.3599	4	
s	4	2	3	s	4	2	2	2552.3791	4	
s	4	2	3	s	3	2	2	2594.6944	4	
s	4	2	3	s	5	2	4	2514.7825	6	
s	4	3	1	s	3	3	0	2596.5147	21	
s	4	3	1	a	3	3	1	2596.4510	25	
s	4	3	1	s	4	3	2	2559.3692	25	
s	4	3	1	s	5	3	2	2509.5074	25	
s	4	3	2	s	5	3	3	2511.8835	19	
s	4	3	2	s	4	3	1	2557.2314	19	
s	4	3	2	s	3	3	1	2595.5744	18	
s	4	4	0	s	5	4	1	2510.4389	12	
s	4	4	0	s	4	4	1	2557.5889	−27	
s	4	4	1	s	5	4	2	2510.7340	9	
s	4	4	1	s	4	4	0	2557.5308	3	
s	5	0	5	s	4	0	4	2599.1046	8	
s	5	0	5	s	6	0	6	2511.8166	60	
s	5	1	4	s	4	1	3	2604.0781	3	
s	5	1	4	s	5	1	5	2579.2021	2	
s	5	1	4	s	6	1	5	2506.0253	5	
s	5	1	5	s	6	1	6	2511.8410	28	
s	5	1	5	s	4	1	4	2598.9973	6	
s	5	1	5	s	5	1	4	2538.6183	−32	
s	5	2	3	s	6	2	4	2500.3771	2	
s	5	2	3	s	5	2	4	2570.0394	−1	
s	5	2	3	s	4	2	2	2607.6364	0	
s	5	2	4	s	5	2	3	2546.9024	4	
s	5	2	4	s	6	2	5	2506.6447	7	
s	5	2	4	s	4	2	3	2602.6329	2	
s	5	3	2	s	5	3	3	2561.4416	9	
s	5	3	2	s	6	3	3	2498.5978	12	
s	5	3	2	s	4	3	1	2606.7895	9	
s	5	3	3	s	5	3	2	2554.5570	8	
s	5	3	3	s	4	3	2	2604.4187	7	
s	5	3	3	s	6	3	4	2502.8009	12	
s	5	4	1	s	4	4	0	2604.4187	59	
s	5	4	1	a	4	4	1	2604.2952	50	
s	5	4	1	s	6	4	2	2499.9346	52	
s	5	4	1	s	5	4	2	2557.6219	64	
s	5	4	1	a	5	4	1	2557.1672	56	
s	5	4	2	s	4	4	1	2604.1185	25	
s	5	4	2	s	6	4	3	2500.9656	21	
s	5	4	2	s	5	4	1	2556.9641	21	
s	5	5	0	s	6	5	1	2500.0963	−27	
s	5	5	0	s	5	5	1	2556.3364	−41	
s	5	5	1	s	5	5	0	2556.3333	36	
s	5	5	1	s	6	5	2	2500.1504	−26	
s	6	0	6	s	7	0	7	2504.1677	1	
s	6	0	6	s	5	0	5	2606.3344	−78	
s	6	1	5	s	6	1	6	2584.1526	−5	
s	6	1	5	s	5	1	4	2610.9371	6	
s	6	1	5	s	7	1	6	2498.4495	8	
s	6	1	6	s	6	1	5	2533.1360	32	
s	6	1	6	s	7	1	7	2504.1677	−75	
s	6	1	6	s	5	1	5	2606.3122	23	
s	6	2	4	s	5	2	3	2615.8936	−2	
s	6	2	4	s	7	2	5	2492.2317	0	
s	6	2	4	s	6	2	5	2575.6352	−8	
s	6	2	5	s	6	2	4	2540.5563	146	*
s	6	2	5	s	5	2	4	2610.2197	153	*
s	6	2	5	s	7	2	6	2498.7096	154	*
s	6	3	3	s	7	3	4	2488.2700	0	
s	6	3	3	s	5	3	2	2616.9767	−3	
s	6	3	3	s	6	3	4	2565.2207	0	
s	6	3	4	s	5	3	3	2612.8506	0	
s	6	3	4	s	6	3	3	2550.0068	2	
s	6	3	4	s	7	3	5	2494.0672	0	
s	6	4	2	s	6	4	3	2558.3115	−88	
s	6	4	2	s	5	4	1	2614.3229	41	
s	6	4	2	s	7	4	3	2488.7690	20	
s	6	4	3	s	5	4	2	2613.2620	12	
s	6	4	3	s	7	4	4	2491.3247	14	
s	6	4	3	s	6	4	2	2555.5761	14	
s	6	5	1	a	6	5	1	2555.8607	165	*
s	6	5	1	s	7	5	2	2489.8228	92	

Δ = observed - calculated in 10^{-4} cm^{-1}

Table A2(continued): Transitions of ν_{3b} of ND_2H

	J'	K'_a	K'_c		J	K_a	K_c	$\tilde{\nu}_0^{\rm exp}/{\rm cm}^{-1}$	Δ	
s	6	5	1	s	6	5	2	2556.0644	83	
s	6	5	2	s	7	5	3	2490.1999	1	
s	6	5	2	s	5	5	1	2612.1961	−1	
s	6	5	2	s	6	5	1	2555.9549	0	
s	6	6	0	s	7	6	1	2489.3631	−27	
s	6	6	0	s	6	6	1	2554.8389	−41	
s	6	6	1	s	7	6	2	2489.3738	−37	
s	6	6	1	s	6	6	0	2554.8389	−24	
s	7	0	7	s	8	0	8	2496.4992	−58	
s	7	0	7	s	6	0	6	2613.5765	−30	
s	7	1	6	s	6	1	5	2617.8113	6	
s	7	1	6	s	8	1	7	2490.7559	11	
s	7	1	6	s	7	1	7	2588.8542	9	
s	7	2	5	s	8	2	6	2484.6298	−13	
s	7	2	5	s	6	2	4	2623.0545	−16	
s	7	2	5	s	7	2	6	2581.2071	−14	
s	7	2	6	s	8	2	7	2490.8394	2	
s	7	2	6	s	6	2	5	2617.5185	0	
s	7	2	6	s	7	2	5	2534.1139	−1	
s	7	3	4	s	8	3	5	2478.8655	−10	
s	7	3	4	s	6	3	3	2626.3589	−20	
s	7	3	4	s	7	3	5	2570.4194	−20	
s	7	3	5	s	8	3	6	2485.6570	−37	
s	7	3	5	s	7	3	4	2543.8582	−39	
s	7	4	3	s	8	4	4	2477.4832	−10	
s	7	4	3	s	7	4	4	2560.4765	−6	
s	7	4	3	s	6	4	2	2624.7280	−5	
s	7	4	4	s	8	4	5	2481.9601	−13	
s	7	4	4	s	7	4	3	2552.5777	−7	
s	7	4	4	s	6	4	3	2622.1310	−8	
s	7	5	2	s	8	5	3	2479.1133	54	
s	7	5	2	s	7	5	3	2556.0644	43	
s	7	5	2	s	6	5	1	2621.8193	42	
s	7	5	2	a	6	5	2	2621.7279	68	
s	7	5	3	s	8	5	4	2480.2204	11	
s	7	5	3	s	6	5	2	2621.4365	6	
s	7	5	3	s	7	5	2	2555.1939	5	
s	7	6	1	s	8	6	2	2479.3066	−44	
s	7	6	1	s	6	6	0	2619.9426	−65	
s	7	6	1	s	7	6	2	2554.4800	−53	
s	7	6	2	s	8	6	3	2479.3669	−26	
s	7	6	2	s	7	6	1	2554.4616	−28	
s	7	6	2	s	6	6	1	2619.9426	10	
s	7	7	0	s	7	7	1	2553.0787	−39	
s	7	7	0	s	8	7	1	2478.3530	−28	
s	7	7	1	s	7	7	0	2553.0787	−36	
s	7	7	1	s	8	7	2	2478.3530	−49	
s	8	0	8	s	9	0	9	2488.8354	47	
s	8	0	8	s	7	0	7	2620.8016	50	
s	8	1	7	s	9	1	8	2482.9957	20	
s	8	1	7	s	8	1	8	2593.4281	22	
s	8	1	7	s	7	1	6	2624.7860	12	
s	8	1	8	s	7	1	7	2620.8016	74	
s	8	1	8	s	8	1	7	2522.7014	57	
s	8	1	8	s	9	1	9	2488.8354	41	
s	8	2	6	s	9	2	7	2477.0619	242	*
s	8	2	6	s	8	2	7	2586.3398	210	*
s	8	2	6	s	7	2	5	2629.6174	237	*
s	8	2	7	s	9	2	8	2483.0201	−2	
s	8	2	7	s	7	2	6	2624.6826	−7	
s	8	2	7	s	8	2	6	2528.1053	−8	
s	8	3	5	s	9	3	6	2470.4963	−1	
s	8	3	5	s	7	3	4	2634.5970	−9	
s	8	3	6	s	8	3	5	2536.7938	51	
s	8	3	6	s	7	3	5	2628.3468	32	
s	8	3	6	s	9	3	7	2477.4971	35	
s	8	4	4	s	7	4	3	2635.0516	−21	
s	8	4	4	s	9	4	5	2466.7720	−16	
s	8	4	4	s	8	4	5	2564.4349	−17	
s	8	4	5	s	8	4	4	2547.5797	−42	
s	8	4	5	s	7	4	4	2630.5725	−44	
s	8	4	5	s	9	4	6	2472.9547	−41	
s	8	5	3	s	8	5	4	2556.7389	14	
s	8	5	3	s	9	5	4	2467.7234	19	
s	8	5	4	s	8	5	3	2553.6048	6	
s	8	5	4	s	7	5	3	2630.5568	5	
s	8	5	4	s	9	5	5	2470.3534	6	
s	8	6	2	a	8	6	2	2553.8419	−76	
s	8	6	2	s	9	6	3	2468.7734	−79	
s	8	6	2	s	8	6	3	2554.0683	−78	
s	8	6	3	s	9	6	4	2469.2505	5	
s	8	6	3	a	8	6	3	2553.8884	6	
s	8	6	3	s	7	6	2	2629.1555	11	
s	8	6	3	s	8	6	2	2553.9806	4	
s	8	7	1	s	9	7	2	2468.3364	−5	
s	8	7	1	s	8	7	2	2552.6762	−31	
s	8	7	1	s	7	7	0	2627.4024	−13	
s	8	7	2	s	8	7	1	2552.6762	3	
s	8	7	2	s	9	7	3	2468.3506	−15	
s	8	8	0	s	8	8	1	2551.0542	−13	
s	8	8	0	s	9	8	1	2467.0833	5	
s	8	8	1	s	9	8	2	2467.0833	1	
s	8	8	1	s	8	8	0	2551.0542	−13	
s	9	0	9	s	10	0	10	2481.1214	−272	*
s	9	0	9	s	8	0	8	2627.9665	−204	*
s	9	1	8	s	8	1	7	2631.7987	−33	
s	9	1	8	s	10	1	9	2475.2000	−37	
s	9	1	9	s	10	1	10	2481.1214	−274	*
s	9	1	9	s	9	1	8	2517.5321	−221	*
s	9	1	9	s	8	1	8	2627.9665	−198	*
s	9	2	7	s	10	2	8	2469.2757	−154	*
s	9	2	7	s	8	2	6	2636.0916	−160	*
s	9	2	8	s	10	2	9	2475.2102	−16	
s	9	2	8	s	8	2	7	2631.7672	−25	
s	9	3	6	s	10	3	7	2462.7790	−296	*
s	9	3	6	s	8	3	5	2641.5858	−302	*
s	9	3	7	s	8	3	6	2635.5541	12	
s	9	3	7	s	9	3	6	2529.6529	0	
s	9	3	7	s	10	3	8	2469.4668	15	
s	9	4	5	s	8	4	4	2644.5434	−19	
s	9	4	5	s	9	4	6	2569.9178	−24	
s	9	4	5	s	10	4	6	2457.0347	−13	
s	9	4	6	s	9	4	5	2540.9134	554	*
s	9	4	6	s	10	4	7	2464.3667	569	*
s	9	4	6	s	8	4	5	2638.5771	560	*
s	9	5	4	s	9	5	5	2558.8752	15	
s	9	5	4	s	10	5	5	2456.1244	18	
s	9	5	4	s	8	5	3	2642.1266	16	
s	9	5	5	s	8	5	4	2639.4063	24	
s	9	5	5	s	10	5	6	2460.7538	27	
s	9	6	3	s	10	6	4	2457.9623	−10	
s	9	6	3	a	8	6	3	2638.6874	−14	
s	9	6	3	s	9	6	4	2554.0501	−9	
s	9	6	4	s	8	6	3	2638.3320	−46	

Δ = observed - calculated in 10^{-4} cm^{-1}

Table A2(continued): Transitions of ν_{3b} of ND_2H

	J'	K'_a	K'_c		J	K_a	K_c	$\tilde{\nu}_0^{\rm exp}/{\rm cm}^{-1}$	Δ	
s	9	6	4	s	10	6	5	2459.0896	−47	
s	9	6	4	s	9	6	3	2553.0387	−31	
s	9	7	2	s	9	7	3	2552.2189	1	
s	9	7	2	a	9	7	2	2552.0783	3	
s	9	7	2	s	10	7	3	2458.1525	−1	
s	9	7	2	s	8	7	1	2636.5428	3	
s	9	8	1	s	10	8	2	2457.0998	53	
s	9	8	1	s	9	8	2	2550.6237	48	
s	9	8	1	s	8	8	0	2634.5970	57	
s	9	8	2	s	10	8	3	2457.0998	23	
s	9	8	2	s	8	8	1	2634.5970	58	
s	9	8	2	s	9	8	1	2550.6237	53	
s	9	9	0	s	9	9	1	2548.7680	72	
s	9	9	0	s	10	9	1	2455.5580	57	
s	9	9	1	s	9	9	0	2548.7680	72	
s	9	9	1	s	10	9	2	2455.5580	56	
s	10	0	10	s	9	0	9	2635.1512	19	
s	10	0	10	s	11	0	11	2473.4613	−14	
s	10	1	9	s	11	1	10	2467.4086	51	
s	10	1	9	s	9	1	8	2638.8134	−80	
s	10	1	10	s	10	1	9	2512.4114	−39	
s	10	1	10	s	9	1	9	2635.1512	21	
s	10	1	10	s	11	1	11	2473.4613	−15	
s	10	2	8	s	11	2	9	2461.4247	−167	*
s	10	2	8	s	10	2	9	2595.4877	−124	*
s	10	2	8	s	9	2	7	2642.7605	−166	*
s	10	2	9	s	11	2	10	2467.4086	27	
s	10	2	9	s	9	2	8	2638.8134	17	
s	10	3	7	s	9	3	6	2647.8374	−134	*
s	10	3	7	s	11	3	8	2455.1973	−128	*
s	10	3	8	s	9	3	7	2642.5662	15	
s	10	3	8	s	10	3	7	2523.0537	15	
s	10	3	8	s	11	3	9	2461.5049	27	
s	10	4	6	s	11	4	7	2448.4024	−22	
s	10	4	6	s	10	4	7	2576.2429	−21	
s	10	4	7	s	11	4	8	2455.9552	164	*
s	10	4	7	s	9	4	6	2646.0045	156	*
s	10	5	5	s	11	5	6	2445.0412	54	
s	10	5	5	s	9	5	4	2652.5360	54	
s	10	5	5	s	10	5	6	2562.8938	0	
s	10	5	6	s	9	5	5	2647.8191	−29	
s	10	5	6	s	11	5	7	2451.5046	−21	
s	10	5	6	s	10	5	5	2545.0689	−20	
s	10	6	4	s	9	6	3	2648.5530	−358	*
s	10	6	4	s	11	6	5	2446.3820	−359	*
s	10	6	5	s	9	6	4	2647.3628	−322	*
s	10	6	5	s	10	6	4	2551.2753	−320	*
s	10	6	5	s	11	6	6	2449.0052	−318	*
s	10	7	4	s	9	7	3	2645.6804	21	
s	10	7	4	a	10	7	4	2551.5053	25	
s	10	7	4	s	11	7	5	2447.9540	24	
s	10	8	2	s	9	8	1	2643.6798	403	*
s	10	8	2	s	11	8	3	2447.0026	426	*
s	10	8	3	s	11	8	4	2447.0157	390	*
s	10	8	3	s	9	8	2	2643.6798	404	*
s	10	9	1	s	11	9	2	2445.5911	−18	
s	10	9	1	s	9	9	0	2641.5032	−33	
s	10	9	1	s	10	9	2	2548.2953	−28	
s	10	9	2	s	11	9	3	2445.5911	−23	
s	10	9	2	s	9	9	1	2641.5032	−33	
s	10	9	2	s	10	9	1	2548.2953	−28	
s	10	10	1	s	11	10	2	2443.7603	−60	

	J'	K'_a	K'_c		J	K_a	K_c	$\tilde{\nu}_0^{\rm exp}/{\rm cm}^{-1}$	Δ
s	10	10	1	s	10	10	0	2546.1942	−29
a	1	0	1	a	0	0	0	2568.8317	−7
a	1	0	1	a	2	0	2	2542.1755	−5
a	1	1	0	a	2	1	1	2539.8159	−9
a	1	1	0	a	1	1	1	2561.2143	−9
a	1	1	1	a	1	1	0	2558.0430	−7
a	1	1	1	a	2	1	2	2543.0581	−9
a	2	0	2	a	3	0	3	2534.4150	1
a	2	0	2	a	1	0	1	2577.1875	0
a	2	1	1	a	2	1	2	2564.2703	−3
a	2	1	1	a	1	1	0	2579.2549	−4
a	2	1	1	a	3	1	2	2530.2895	−2
a	2	1	2	a	1	1	1	2576.1595	−1
a	2	1	2	a	3	1	3	2535.0333	0
a	2	2	0	a	3	2	1	2529.8445	−5
a	2	2	0	a	2	2	1	2559.8243	−8
a	2	2	1	a	2	2	0	2558.5634	−17
a	2	2	1	a	3	2	2	2531.9126	−17
a	3	0	3	a	2	0	2	2584.7015	5
a	3	0	3	a	4	0	4	2526.9337	8
a	3	1	2	a	2	1	1	2588.4099	2
a	3	1	2	a	4	1	3	2521.4821	4
a	3	1	2	a	3	1	3	2568.6822	3
a	3	1	3	a	3	1	2	2550.0168	3
a	3	1	3	a	4	1	4	2527.2052	6
a	3	1	3	a	2	1	2	2583.9981	7
a	3	2	1	a	4	2	2	2519.3752	−1
a	3	2	1	a	2	2	0	2588.3395	−4
a	3	2	1	a	3	2	2	2561.6887	−4
a	3	2	2	a	4	2	3	2523.1743	−1
a	3	2	2	a	3	2	1	2556.3364	37
a	3	2	2	a	2	2	1	2586.3124	−3
a	3	3	0	s	3	3	0	2558.6921	−8
a	3	3	0	a	3	3	1	2558.6255	−34
a	3	3	0	a	4	3	1	2520.3306	−8
a	3	3	1	s	3	3	1	2558.6255	−47
a	3	3	1	s	4	3	1	2520.2808	−63
a	3	3	1	a	4	3	2	2521.1990	−63
a	3	3	1	a	3	3	0	2558.2987	−63
a	4	0	4	a	3	0	3	2591.8860	8
a	4	0	4	a	5	0	5	2519.4019	36
a	4	1	3	a	4	1	4	2573.8957	8
a	4	1	3	a	3	1	2	2596.7074	7
a	4	1	3	a	5	1	4	2513.5293	9
a	4	1	4	a	4	1	3	2544.3760	12
a	4	1	4	a	5	1	5	2519.4916	8
a	4	1	4	a	3	1	3	2591.5758	8
a	4	2	2	a	5	2	3	2509.4328	5
a	4	2	2	a	3	2	1	2598.3185	3
a	4	2	2	a	4	2	3	2565.1608	9
a	4	2	3	a	5	2	4	2514.7516	5
a	4	2	3	a	3	2	2	2594.6629	5
a	4	2	3	a	4	2	2	2552.3490	4
a	4	3	1	a	3	3	0	2596.4275	−6
a	4	3	1	a	5	3	2	2509.4679	14
a	4	3	1	a	4	3	2	2559.3279	−6
a	4	3	2	a	5	3	3	2511.8410	−48
a	4	3	2	a	4	3	1	2557.1915	−13
a	4	3	2	a	3	3	1	2595.4880	−23
a	4	4	0	a	5	4	1	2510.4389	−7
a	4	4	0	s	4	4	0	2557.6981	73
a	4	4	0	a	4	4	1	2557.5689	6

Δ = observed - calculated in 10^{-4} cm^{-1}

Table A2(continued): Transitions of ν_{3b} of ND_2H

	J'	K'_a	K'_c		J	K_a	K_c	$\tilde{\nu}_0^{\rm exp}/{\rm cm}^{-1}$	Δ	
a	4	4	1	a	5	4	2	2510.7340	−14	
a	4	4	1	s	5	4	1	2510.5315	−92	
a	4	4	1	s	4	4	1	2557.6981	33	
a	4	4	1	a	4	4	0	2557.5105	34	
a	5	0	5	a	4	0	4	2599.0914	3	
a	5	0	5	a	6	0	6	2511.7932	−15	
a	5	1	4	a	6	1	5	2505.9905	17	
a	5	1	4	a	4	1	3	2604.0402	21	
a	5	1	5	a	5	1	4	2538.6183	5	
a	5	1	5	a	6	1	6	2511.8166	−58	
a	5	1	5	a	4	1	4	2598.9849	5	
a	5	2	3	a	4	2	2	2607.5849	7	
a	5	2	3	a	5	2	4	2569.9874	6	
a	5	2	3	a	6	2	4	2500.3309	9	
a	5	2	4	a	4	2	3	2602.5977	10	
a	5	2	4	a	5	2	3	2546.8702	10	
a	5	2	4	a	6	2	5	2506.6101	12	
a	5	3	2	a	5	3	3	2561.3908	0	
a	5	3	2	a	6	3	3	2498.5473	2	
a	5	3	2	a	4	3	1	2606.7376	−1	
a	5	3	3	a	5	3	2	2554.5106	−5	
a	5	3	3	a	4	3	2	2604.3732	0	
a	5	3	3	a	6	3	4	2502.7565	0	
a	5	4	1	a	4	4	0	2604.3419	−12	
a	5	4	1	a	6	4	2	2499.8800	−11	
a	5	4	1	a	5	4	2	2557.5689	−27	
a	5	4	2	a	6	4	3	2500.9122	−47	
a	5	4	2	a	5	4	1	2556.9136	−49	
a	5	4	2	s	5	4	2	2557.3675	−49	
a	5	4	2	a	4	4	1	2604.0402	−69	
a	5	5	0	a	6	5	1	2500.0642	−10	
a	5	5	0	a	5	5	1	2556.3035	−105	*
a	5	5	1	a	6	5	2	2500.1189	−3	
a	5	5	1	a	5	5	0	2556.3035	4	
a	6	0	6	a	5	0	5	2606.3344	−9	
a	6	0	6	a	7	0	7	2504.1561	−2	
a	6	1	5	a	7	1	6	2498.4106	11	
a	6	1	5	a	6	1	6	2584.1000	4	
a	6	1	5	a	5	1	4	2610.8958	9	
a	6	1	6	a	5	1	5	2606.3122	91	
a	6	1	6	a	6	1	5	2533.1360	−16	
a	6	1	6	a	7	1	7	2504.1677	36	
a	6	2	4	a	5	2	3	2615.8332	7	
a	6	2	4	a	6	2	5	2575.5731	9	
a	6	2	4	a	7	2	5	2492.1782	9	
a	6	2	5	a	5	2	4	2610.1686	34	
a	6	2	5	a	7	2	6	2498.6589	34	
a	6	2	5	a	6	2	4	2540.5062	−22	
a	6	3	3	a	7	3	4	2488.2134	49	
a	6	3	3	a	6	3	4	2565.1608	39	
a	6	3	3	a	5	3	2	2616.9162	46	
a	6	3	4	a	5	3	3	2612.7975	0	
a	6	3	4	a	6	3	3	2549.9512	−26	
a	6	3	4	a	7	3	5	2494.0165	1	
a	6	4	2	a	6	4	3	2558.2620	−7	
a	6	4	2	a	7	4	3	2488.7079	−3	
a	6	4	2	a	5	4	1	2614.2637	−5	
a	6	4	3	a	7	4	4	2491.2679	−15	
a	6	4	3	a	6	4	2	2555.5177	−13	
a	6	4	3	a	5	4	2	2613.2079	−16	
a	6	5	1	a	6	5	2	2556.0259	−7	
a	6	5	1	a	7	5	2	2489.8228	−4	

	J'	K'_a	K'_c		J	K_a	K_c	$\tilde{\nu}_0^{\rm exp}/{\rm cm}^{-1}$	Δ	
a	6	5	1	a	5	5	0	2612.2097	−7	
a	6	5	1	s	6	5	1	2556.1200	−5	
a	6	5	2	s	7	5	2	2489.9015	66	
a	6	5	2	a	5	5	1	2612.1784	41	
a	6	5	2	s	6	5	2	2556.1442	68	
a	6	5	2	a	6	5	1	2555.9325	70	
a	6	5	2	a	7	5	3	2490.2210	108	*
a	6	6	0	a	7	6	1	2489.3360	−47	
a	6	6	0	a	6	6	1	2554.8121	−50	
a	6	6	1	a	7	6	2	2489.3738	214	*
a	6	6	1	a	6	6	0	2554.8389	234	*
a	7	0	7	a	8	0	8	2496.4992	−9	
a	7	0	7	a	6	0	6	2613.5771	−29	
a	7	1	6	a	8	1	7	2490.7134	7	
a	7	1	6	a	7	1	7	2588.7939	−2	
a	7	1	6	a	6	1	5	2617.7679	2	
a	7	1	7	a	7	1	6	2527.8772	−37	
a	7	1	7	a	6	1	6	2613.5765	55	
a	7	1	7	a	8	1	8	2496.4992	−30	
a	7	2	5	a	6	2	4	2622.9889	3	
a	7	2	5	a	7	2	6	2581.1369	12	
a	7	2	5	a	8	2	6	2484.5719	6	
a	7	2	6	a	6	2	5	2617.4733	−32	
a	7	2	6	a	8	2	7	2490.7942	−30	
a	7	2	6	a	7	2	5	2534.0804	−12	
a	7	3	4	a	6	3	3	2626.2828	9	
a	7	3	4	a	8	3	5	2478.7955	10	
a	7	3	4	a	7	3	5	2570.3453	10	
a	7	3	5	a	6	3	4	2620.7514	−8	
a	7	3	5	a	8	3	6	2485.6022	−9	
a	7	3	5	a	7	3	4	2543.8033	−5	
a	7	4	3	a	6	4	2	2624.6547	1	
a	7	4	3	a	7	4	4	2560.4049	0	
a	7	4	3	a	8	4	4	2477.4121	10	
a	7	4	4	a	6	4	3	2622.0651	−12	
a	7	4	4	a	7	4	3	2552.5106	−12	
a	7	4	4	a	8	4	5	2481.8971	−10	
a	7	5	2	a	7	5	3	2555.9975	−13	
a	7	5	2	a	8	5	3	2479.0424	−13	
a	7	5	3	a	7	5	2	2555.1276	−56	
a	7	5	3	a	6	5	2	2621.3321	−44	
a	7	5	3	a	8	5	4	2480.1535	−45	
a	7	6	1	a	8	6	2	2479.2454	8	
a	7	6	1	a	7	6	2	2554.4435	2	
a	7	6	2	a	7	6	1	2554.4266	43	
a	7	6	2	a	8	6	3	2479.3066	33	
a	7	6	2	a	6	6	1	2619.8938	−49	
a	7	7	0	a	8	7	1	2478.3530	168	*
a	7	7	0	a	7	7	1	2553.0787	170	*
a	7	7	1	a	8	7	2	2478.3530	146	*
a	7	7	1	a	7	7	0	2553.0787	172	*
a	8	0	8	a	7	0	7	2620.8016	−25	
a	8	0	8	a	9	0	9	2488.8354	36	
a	8	1	7	a	7	1	6	2624.7405	16	
a	8	1	7	a	8	1	8	2593.3612	10	
a	8	1	7	a	9	1	8	2482.9496	20	
a	8	1	8	a	9	1	9	2488.8354	30	
a	8	1	8	a	7	1	7	2620.8016	−1	
a	8	2	6	a	7	2	5	2629.5306	82	
a	8	2	6	a	8	2	7	2586.2458	78	
a	8	2	6	a	9	2	7	2476.9813	84	
a	8	2	7	a	9	2	8	2482.9738	−4	

Δ = observed - calculated in 10^{-4} cm^{-1}

Table A2(continued): Transitions of ν_{3b} of ND_2H

	J'	K'_a	K'_c		J	K_a	K_c	$\tilde{\nu}_0^{\rm exp}/{\rm cm}^{-1}$	Δ	
a	8	2	7	a	8	2	6	2528.0716	−20	
a	8	2	7	a	7	2	6	2624.6370	−9	
a	8	3	5	a	8	3	6	2576.3080	−6	
a	8	3	5	a	7	3	4	2634.5099	5	
a	8	3	5	a	9	3	6	2470.4186	10	
a	8	3	6	a	8	3	5	2536.7226	−40	
a	8	3	6	a	9	3	7	2477.4275	−21	
a	8	3	6	a	7	3	5	2628.2743	−21	
a	8	4	4	a	7	4	3	2634.9606	−26	
a	8	4	4	a	9	4	5	2466.6854	−14	
a	8	4	4	a	8	4	5	2564.3480	−16	
a	8	4	5	a	8	4	4	2547.5004	−79	
a	8	4	5	a	7	4	4	2630.5001	−21	
a	8	4	5	a	9	4	6	2472.8858	−17	
a	8	5	3	a	9	5	4	2467.6438	10	
a	8	5	3	a	7	5	2	2631.6364	3	
a	8	5	3	a	8	5	4	2556.6613	4	
a	8	5	4	a	9	5	5	2470.2809	−11	
a	8	5	4	a	7	5	3	2630.4820	−38	
a	8	5	4	a	8	5	3	2553.5294	−13	
a	8	6	2	a	8	6	3	2554.0501	0	
a	8	6	2	a	9	6	3	2468.8199	4	
a	8	6	2	s	8	6	2	2554.1424	0	
a	8	6	2	a	7	6	1	2629.1680	−10	
a	8	6	3	a	8	6	2	2553.9380	−165	*
a	8	6	3	a	9	6	4	2469.2757	−136	*
a	8	7	1	a	9	7	2	2468.2978	10	
a	8	7	1	a	8	7	2	2552.6400	5	
a	8	7	1	a	7	7	0	2627.3640	14	
a	8	7	2	a	7	7	1	2627.3640	24	
a	8	7	2	a	8	7	1	2552.6400	39	
a	8	8	0	a	8	8	1	2551.0542	81	
a	8	8	0	a	9	8	1	2467.0833	83	
a	8	8	1	a	9	8	2	2467.0833	80	
a	8	8	1	a	8	8	0	2551.0542	81	
a	9	0	9	a	10	0	10	2481.1566	47	
a	9	0	9	a	8	0	8	2627.9912	−65	
a	9	1	9	a	10	1	10	2481.1566	45	
a	9	1	9	a	8	1	8	2627.9912	−58	
a	9	2	7	a	8	2	6	2636.0116	−201	*
a	9	2	7	a	10	2	8	2469.2003	−197	*
a	9	2	8	a	8	2	7	2631.7194	22	
a	9	2	8	a	10	2	9	2475.1613	34	
a	9	3	6	a	10	3	7	2462.7263	−7	
a	9	3	6	a	8	3	5	2641.5224	−12	
a	9	3	6	a	9	3	7	2582.2248	−18	
a	9	3	7	a	8	3	6	2635.4759	−30	
a	9	3	7	a	10	3	8	2469.3917	−25	
a	9	3	7	a	9	3	6	2529.5846	−32	
a	9	4	5	a	9	4	6	2569.8263	45	
a	9	4	5	a	10	4	6	2456.9381	−26	
a	9	4	5	a	8	4	4	2644.4394	−29	
a	9	4	6	a	8	4	5	2638.4359	−36	
a	9	4	6	a	10	4	7	2464.2295	−31	
a	9	4	6	a	9	4	5	2540.7755	−13	
a	9	5	4	a	8	5	3	2642.0335	31	
a	9	5	4	a	9	5	5	2558.7851	34	
a	9	5	4	a	10	5	5	2456.0315	35	
a	9	5	5	a	10	5	6	2460.6743	20	
a	9	5	5	a	8	5	4	2639.3240	16	
a	9	5	5	a	9	5	4	2550.3061	18	
a	9	6	3	a	10	6	4	2457.8804	−56	
a	9	6	3	a	8	6	2	2638.6360	−55	
a	9	6	3	a	9	6	4	2553.9695	−68	
a	9	6	4	a	9	6	3	2552.9613	−80	
a	9	6	4	a	10	6	5	2459.0138	−79	
a	9	6	4	a	8	6	3	2638.1910	−90	
a	9	7	2	a	9	7	3	2552.1557	−93	
a	9	7	2	a	8	7	1	2636.4745	−146	*
a	9	7	3	a	10	7	4	2458.1212	139	*
a	9	7	3	s	9	7	3	2552.2960	132	*
a	9	7	3	a	8	7	2	2636.4984	137	*
a	9	7	3	a	9	7	2	2552.1557	137	*
a	9	8	1	a	10	8	2	2457.0998	332	*
a	9	8	1	a	9	8	2	2550.6237	341	*
a	9	8	2	a	8	8	1	2634.5970	366	*
a	9	8	2	a	10	8	3	2457.0998	302	*
a	9	8	2	a	9	8	1	2550.6237	345	*
a	9	9	0	a	9	9	1	2548.7680	−35	
a	9	9	0	a	10	9	1	2455.5587	−65	
a	9	9	1	a	10	9	2	2455.5587	−66	
a	9	9	1	a	9	9	0	2548.7680	−35	
a	10	1	9	a	11	1	10	2467.3054	−280	*
a	10	1	9	a	9	1	8	2638.7256	−279	*
a	10	1	9	a	10	1	10	2602.2906	−305	*
a	10	1	10	a	11	1	11	2473.4613	27	
a	10	1	10	a	9	1	9	2635.1510	−22	
a	10	1	10	a	10	1	9	2512.4403	−15	
a	10	2	8	a	11	2	9	2461.3643	41	
a	10	2	8	a	9	2	7	2642.6959	36	
a	10	2	8	a	10	2	9	2595.4016	34	
a	10	3	7	a	10	3	8	2587.5578	−70	
a	10	3	7	a	9	3	6	2647.7522	−62	
a	10	3	7	a	11	3	8	2455.1224	−54	
a	10	3	8	a	9	3	7	2642.4827	21	
a	10	3	8	a	10	3	7	2522.9816	7	
a	10	3	8	a	11	3	9	2461.4247	37	
a	10	4	6	a	9	4	5	2652.6752	−110	*
a	10	4	6	a	11	4	7	2448.2986	−104	*
a	10	4	7	a	11	4	8	2455.8544	−35	
a	10	4	7	a	10	4	6	2533.0193	−27	
a	10	4	7	a	9	4	6	2645.8992	−37	
a	10	5	5	a	11	5	6	2444.9333	38	
a	10	5	5	a	10	5	6	2562.7940	47	
a	10	5	5	a	9	5	4	2652.4256	42	
a	10	5	6	a	10	5	5	2544.9872	53	
a	10	5	6	a	9	5	5	2647.7431	75	
a	10	5	6	a	11	5	7	2451.4300	55	
a	10	6	4	a	9	6	3	2648.4601	−388	*
a	10	6	4	a	11	6	5	2446.2863	−388	*
a	10	6	5	a	9	6	4	2647.2809	−339	*
a	10	6	5	a	11	6	6	2448.9237	−333	*
a	10	7	3	a	10	7	4	2551.6635	45	
a	10	7	3	s	10	7	3	2551.7739	55	
a	10	7	3	a	9	7	2	2645.6993	55	
a	10	7	3	a	11	7	4	2447.5031	54	
a	10	7	3	s	9	7	3	2645.8407	61	
a	10	8	2	a	11	8	3	2446.8240	−887	*
a	10	8	2	a	9	8	1	2643.5013	−919	*
a	10	8	2	a	10	8	3	2549.9820	−917	*
a	10	8	3	a	10	8	2	2549.9820	−883	*
a	10	8	3	a	11	8	4	2446.8240	−1060	*
a	10	8	3	a	9	8	2	2643.5013	−920	*

Δ = observed - calculated in 10^{-4} cm^{-1}