

Newly measured pure rotational transitions measured in the course of the present investigation.

The first three columns give the upper state quantum numbers J' , Ka' , Kc' . After the minus sign appear the lower state quantum numbers J'' , Ka'' , Kc'' . The last three columns provide the experimental frequency, the uncertainty (1 sigma), and the residual between observed and calculated frequency - all in units of MHz.

$J'Ka'Kc'$	-	$J''Ka''Kc''$	frequency	unc.	res.
12 3 9	-	13 1 12	833205.089	0.100	0.161
12 1 12	-	11 1 11	840275.666	0.050	-0.029
12 0 12	-	11 0 11	855151.289	0.020	-0.013
19 1 18	-	19 1 19	869513.736	0.100	0.022
12 11 2	-	11 11 1	870063.840	0.030	-0.008
12 11 1	-	11 11 0	870063.840	0.030	-0.008
12 2 11	-	11 2 10	870273.482	0.030	-0.005
12 10 3	-	11 10 2	870762.249	0.030	0.001
12 10 2	-	11 10 1	870762.249	0.030	0.001
12 8 5	-	11 8 4	872016.075	0.020	0.006
12 8 4	-	11 8 3	872016.075	0.020	0.006
12 7 6	-	11 7 5	872590.985	0.010	-0.001
12 7 5	-	11 7 4	872590.985	0.010	-0.001
12 6 7	-	11 6 6	873159.782	0.020	-0.003
12 6 6	-	11 6 5	873159.782	0.020	-0.003
12 5 8	-	11 5 7	873775.417	0.010	-0.004
12 5 7	-	11 5 6	873775.417	0.010	-0.004
12 4 9	-	11 4 8	874557.384	0.020	-0.001
12 4 8	-	11 4 7	874589.038	0.020	-0.021
12 3 10	-	11 3 9	875366.165	0.020	-0.015
12 3 9	-	11 3 8	876649.134	0.020	-0.018
12 2 10	-	11 2 9	888629.058	0.030	0.033
12 1 11	-	11 1 10	896805.145	0.030	0.036
27 2 25	-	27 2 26	901481.812	0.050	-0.015
13 1 13	-	12 1 12	909507.675	0.020	-0.015
13 0 13	-	12 0 12	923587.827	0.020	-0.008
36 3 33	-	36 3 34	936666.533	0.100	0.029
13 12 2	-	12 12 1	941690.138	0.080	0.034
13 12 1	-	12 12 0	941690.138	0.080	0.034
13 2 12	-	12 2 11	942076.550	0.010	0.006
13 11 3	-	12 11 2	942510.239	0.010	-0.004
13 11 2	-	12 11 1	942510.239	0.010	-0.004
13 10 3	-	12 10 2	943273.427	0.020	0.008
13 10 4	-	12 10 3	943273.427	0.020	0.008
13 9 5	-	12 9 4	943984.894	0.010	0.004
13 9 4	-	12 9 3	943984.894	0.010	0.004
13 8 5	-	12 8 4	944653.532	0.020	0.003
13 8 6	-	12 8 5	944653.532	0.020	0.003
13 7 6	-	12 7 5	945295.263	0.020	-0.000
13 7 7	-	12 7 6	945295.263	0.020	-0.000
13 6 7	-	12 6 6	945941.088	0.020	-0.003
13 6 8	-	12 6 7	945941.088	0.020	-0.003
13 5 8	-	12 5 7	946658.430	0.020	0.014
13 5 9	-	12 5 8	946658.430	0.020	0.014
13 4 10	-	12 4 9	947591.824	0.020	-0.001
13 4 9	-	12 4 8	947647.987	0.010	-0.006
13 3 11	-	12 3 10	948453.833	0.010	0.010
13 3 10	-	12 3 9	950364.929	0.020	-0.009

20	1	19	-	20	1	20	950565.332	0.030	0.017
30	1	29	-	30	1	30	1764794.788	0.100	-0.051
13	3	11	-	13	1	12	1778433.322	0.050	-0.004
24	3	21	-	23	3	20	1779627.367	0.030	0.012
29	2	28	-	29	0	29	1781349.996	0.150	0.026
31	3	29	-	31	1	30	1783838.763	0.200	-0.083
25	2	24	-	24	2	23	1788398.343	0.040	-0.010
24	2	22	-	23	2	21	1793646.998	0.030	-0.009
26	1	26	-	25	1	25	1798019.586	0.030	-0.012
26	0	26	-	25	0	25	1799989.170	0.030	-0.004
12	3	10	-	12	1	11	1800178.604	0.200	-0.078
25	13	12	-	24	13	11	1806871.674	0.100	-0.048
25	13	13	-	24	13	12	1806871.674	0.100	-0.048
25	12	13	-	24	12	12	1808695.048	0.150	0.033
25	12	14	-	24	12	13	1808695.048	0.150	0.033
25	11	14	-	24	11	13	1810443.218	0.100	-0.059
25	11	15	-	24	11	14	1810443.218	0.100	-0.059
25	10	15	-	24	10	14	1812139.948	0.100	0.012
25	10	16	-	24	10	15	1812139.948	0.100	0.012
25	1	24	-	24	1	23	1812980.376	0.030	-0.017
25	9	16	-	24	9	15	1813822.580	0.030	0.000
25	9	17	-	24	9	16	1813822.580	0.030	0.000
25	8	18	-	24	8	17	1815554.693	0.020	-0.021
25	8	17	-	24	8	16	1815554.693	0.020	-0.021
25	7	19	-	24	7	18	1817450.995	0.020	0.005
25	7	18	-	24	7	17	1817450.995	0.020	0.005
25	6	20	-	24	6	19	1819732.236	0.100	0.040
25	6	19	-	24	6	18	1819743.609	0.100	0.031
25	3	23	-	24	3	22	1820130.869	0.020	-0.011
11	3	9	-	11	1	10	1821617.609	0.100	-0.001
25	5	21	-	24	5	20	1822767.028	0.030	0.019
25	5	20	-	24	5	19	1823087.915	0.030	-0.017
25	4	22	-	24	4	21	1825852.466	0.030	-0.003
25	4	21	-	24	4	20	1831086.670	0.020	-0.006
10	3	8	-	10	1	9	1842417.996	0.100	-0.011
25	3	22	-	24	3	21	1856534.561	0.020	0.011
11	2	9	-	10	0	10	1857412.332	0.100	-0.075
26	2	25	-	25	2	24	1857540.063	0.030	-0.005
9	3	7	-	9	1	8	1862277.507	0.150	0.100
27	1	27	-	26	1	26	1865709.180	0.030	0.040
25	2	23	-	24	2	22	1866739.090	0.030	0.021
27	0	27	-	26	0	26	1867313.823	0.030	0.025
26	13	13	-	25	13	12	1878869.074	0.150	-0.085
26	13	14	-	25	13	13	1878869.074	0.150	-0.085
26	1	25	-	25	1	24	1880020.004	0.040	0.010
26	12	14	-	25	12	13	1880780.603	0.150	0.188
26	12	15	-	25	12	14	1880780.603	0.150	0.188
8	3	6	-	8	1	7	1880922.507	0.150	0.022
26	11	15	-	25	11	14	1882618.482	0.100	0.124
26	11	16	-	25	11	15	1882618.482	0.100	0.124
26	10	16	-	25	10	15	1884409.408	0.040	0.062
26	10	17	-	25	10	16	1884409.408	0.040	0.062
26	9	18	-	25	9	17	1886195.683	0.030	-0.000
26	9	17	-	25	9	16	1886195.683	0.030	-0.000
26	8	19	-	25	8	18	1888048.877	0.040	-0.013
26	8	18	-	25	8	17	1888048.877	0.040	-0.013
26	7	20	-	25	7	19	1890098.280	0.020	0.015
26	7	19	-	25	7	18	1890098.280	0.020	0.015
26	3	24	-	25	3	23	1891798.963	0.030	-0.014
27	2	26	-	26	2	25	1926478.315	0.020	0.002
28	1	28	-	27	1	27	1933333.530	0.040	-0.001

26	3	23	-	25	3	22	1933456.028	0.030	0.012
28	0	28	-	27	0	27	1934635.940	0.040	0.032
4	3	2	-	4	1	3	1938881.594	0.100	0.008
26	2	24	-	25	2	23	1939275.603	0.040	-0.053
27	1	26	-	26	1	25	1946791.116	0.040	0.016
27	14	13	-	26	14	12	1948742.482	0.150	-0.105
27	14	14	-	26	14	13	1948742.482	0.150	-0.105
27	11	16	-	26	11	15	1954764.751	0.040	0.101
27	11	17	-	26	11	16	1954764.751	0.040	0.101
35	3	33	-	35	1	34	1956022.272	0.050	0.041
27	10	18	-	26	10	17	1956652.968	0.050	-0.080
27	10	17	-	26	10	16	1956652.968	0.050	-0.080
27	9	19	-	26	9	18	1958547.283	0.020	-0.049
27	9	18	-	26	9	17	1958547.283	0.020	-0.049
27	8	20	-	26	8	19	1960527.675	0.050	-0.033
27	8	19	-	26	8	18	1960527.675	0.050	-0.033
27	3	25	-	26	3	24	1963245.820	0.030	-0.009
27	6	22	-	26	6	21	1965457.856	0.030	0.022
27	6	21	-	26	6	20	1965484.428	0.040	-0.006
27	5	23	-	26	5	22	1969069.146	0.030	0.006
27	5	22	-	26	5	21	1969703.743	0.040	0.026
27	4	24	-	26	4	23	1972079.390	0.030	0.022
27	4	23	-	26	4	22	1980702.869	0.030	0.003
33	1	32	-	33	1	33	1991809.601	0.100	0.024
28	2	27	-	27	2	26	1995220.446	0.020	0.007
29	1	29	-	28	1	28	2000896.204	0.020	-0.004
29	0	29	-	28	0	28	2001949.607	0.030	-0.024