

Supplemental Material

S1: Rotational transitions of 5,6-benzoquinoline

J	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	J'	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	v <sub>obs.</sub> / MHz	v <sub>calc.</sub> / MHz	Δv / MHz
15	15	1	1	16	14	14	0	1	15	48086.57600	48086.57249	0.00351
16	15	1	1	17	15	14	2	1	16	49062.85200	49062.88364	-0.03164
17	15	2	1	18	16	14	3	1	17	50039.06400	50039.08572	-0.02172
17	16	1	1	18	16	15	2	1	17	52345.46100	52345.43595	0.02505
18	14	4	1	19	17	13	5	1	18	48708.04000	48708.07613	-0.03613
18	16	2	1	19	17	15	3	1	18	53321.67500	53321.65729	0.01771
19	15	4	1	20	18	14	5	1	19	51990.83900	51990.83493	0.00407
20	13	7	1	21	19	12	8	1	20	48347.91700	48347.93832	-0.02132
20	14	6	1	21	19	13	7	1	20	50657.88700	50657.88716	-0.00016
20	19	1	1	21	19	18	2	1	20	62192.98800	62192.95900	0.02900
22	13	9	1	23	21	12	10	1	22	50291.49900	50291.50055	-0.00155
23	19	4	1	24	22	18	5	1	23	65121.33100	65121.34834	-0.01734
28	10	18	1	29	27	9	19	1	28	48919.50800	48919.50107	0.00693
29	10	20	1	30	28	9	19	1	29	49783.45000	49783.47692	-0.02692
24	12	13	1	25	23	11	12	1	24	49903.12300	49903.14435	-0.02135
29	13	17	1	30	28	12	16	1	29	57034.08400	57034.05888	0.02512
31	13	19	1	32	30	12	18	1	31	58933.27200	58933.26174	0.01026
25	11	15	1	26	24	10	14	1	25	48516.69500	48516.64843	0.04657
26	14	12	1	27	25	13	13	1	26	56485.00500	56484.99518	0.00982
21	14	7	1	22	20	13	8	1	21	51631.80000	51631.80032	-0.00032
27	11	16	1	28	26	10	17	1	27	50407.41900	50407.43696	-0.01796
27	11	17	1	28	26	10	16	1	27	50406.66600	50406.64643	0.01957
27	10	17	1	28	26	9	18	1	27	48000.76200	48000.73747	0.02453
30	9	21	1	31	29	8	22	1	30	48412.51000	48412.54210	-0.03210
28	10	19	1	29	27	9	18	1	28	48893.87400	48893.91300	-0.03900
23	12	12	1	24	22	11	11	1	23	48939.48800	48939.48553	0.00247
23	12	11	1	24	22	11	12	1	23	48939.48800	48939.48631	0.00169
21	13	9	1	22	20	12	8	1	21	49320.32800	49320.33854	-0.01054
21	13	8	1	22	20	12	9	1	21	49320.32800	49320.33854	-0.01054
19	14	6	1	20	18	13	5	1	19	49683.25400	49683.26604	-0.01204
19	14	5	1	20	18	13	6	1	19	49683.25400	49683.26604	-0.01204
29	10	19	1	30	28	9	20	1	29	49831.74200	49831.74464	-0.00264
30	10	21	1	31	29	9	20	1	30	50650.67900	50650.68183	-0.00283
30	10	20	1	31	29	9	21	1	30	50739.09000	50739.07502	0.01498

J	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	J'	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	v <sub>obs.</sub> / MHz	v <sub>calc.</sub> / MHz	Δv / MHz
25	12	14	1	26	24	11	13	1	25	50864.00600	50864.00673	-0.00073
25	12	13	1	26	24	11	14	1	25	50864.00600	50864.01261	-0.00661
18	15	4	1	19	17	14	3	1	18	51015.09800	51015.09901	-0.00101
18	15	3	1	19	17	14	4	1	18	51015.09800	51015.09901	-0.00101
23	13	11	1	24	22	12	10	1	23	51261.21700	51261.20536	0.01164
23	13	10	1	24	22	12	11	1	23	51261.21700	51261.20538	0.01162
16	16	0	1	17	15	15	1	1	16	51369.13600	51369.11990	0.01610
16	16	1	1	17	15	15	0	1	16	51369.13600	51369.11990	0.01610
21	14	8	1	22	20	13	7	1	21	51631.78900	51631.80032	-0.01132
21	14	7	1	22	20	13	8	1	21	51631.78900	51631.80032	-0.01132
26	12	15	1	27	25	11	14	1	26	51821.68000	51821.67789	0.00211
26	12	14	1	27	25	11	15	1	26	51821.68000	51821.69287	-0.01287
24	13	12	1	25	23	12	11	1	24	52229.21100	52229.21562	-0.00462
24	13	11	1	25	23	12	12	1	24	52229.21100	52229.21568	-0.00468
32	10	23	1	33	31	9	22	1	32	52281.99500	52281.98475	0.01025
32	10	22	1	33	31	9	23	1	32	52554.32400	52554.31565	0.00835
22	14	9	1	23	21	13	8	1	22	52604.84100	52604.85419	-0.01319
22	14	8	1	23	21	13	9	1	22	52604.84100	52604.85419	-0.01319
20	15	6	1	21	19	14	5	1	20	52966.20300	52966.19592	0.00708
20	15	5	1	21	19	14	6	1	20	52966.20300	52966.19592	0.00708
23	14	10	1	24	22	13	9	1	23	53576.87000	53576.88480	-0.01480
23	14	9	1	24	22	13	10	1	23	53576.87000	53576.88480	-0.01480
21	15	7	1	22	20	14	6	1	21	53941.08700	53941.07525	0.01175
21	15	6	1	22	20	14	7	1	21	53941.08700	53941.07525	0.01175
19	16	3	1	20	18	15	4	1	19	54297.69700	54297.71527	-0.01827
19	16	4	1	20	18	15	3	1	19	54297.69700	54297.71527	-0.01827
17	17	1	1	18	16	16	0	1	17	54651.65500	54651.64694	0.00806
17	17	0	1	18	16	16	1	1	17	54651.65500	54651.64694	0.00806
22	15	8	1	23	21	14	7	1	22	54915.34400	54915.35681	-0.01281
22	15	7	1	23	21	14	8	1	22	54915.34400	54915.35681	-0.01281
20	16	5	1	21	19	15	4	1	20	55273.53600	55273.53403	0.00197
20	16	4	1	21	19	15	5	1	20	55273.53600	55273.53403	0.00197
18	17	2	1	19	17	16	1	1	18	55627.99700	55627.96662	0.03038
18	17	1	1	19	17	16	2	1	18	55627.99700	55627.96662	0.03038
23	15	9	1	24	22	14	8	1	23	55888.92200	55888.91487	0.00713
23	15	8	1	24	22	14	9	1	23	55888.92200	55888.91487	0.00713
21	16	5	1	22	20	15	6	1	21	56249.03800	56249.03037	0.00763
21	16	6	1	22	20	15	5	1	21	56249.03800	56249.03037	0.00763

J	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	J'	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	v <sub>obs.</sub> / MHz	v <sub>calc.</sub> / MHz	Δv / MHz
19	17	2	1	20	18	16	3	1	19	56604.21600	56604.20323	0.01277
19	17	3	1	20	18	16	2	1	19	56604.21600	56604.20323	0.01277
20	17	4	1	21	19	16	3	1	20	57580.29200	57580.29705	-0.00505
20	17	3	1	21	19	16	4	1	20	57580.29200	57580.29705	-0.00505
18	18	0	1	19	17	17	1	1	18	57934.14000	57934.15235	-0.01235
18	18	1	1	19	17	17	0	1	18	57934.14000	57934.15235	-0.01235
23	16	8	1	24	22	15	7	1	23	58198.70100	58198.68568	0.01532
23	16	7	1	24	22	15	8	1	23	58198.70100	58198.68568	0.01532
21	17	5	1	22	20	16	4	1	21	58556.19700	58556.18237	0.01463
21	17	4	1	22	20	16	5	1	21	58556.19700	58556.18237	0.01463
19	18	1	1	20	18	17	2	1	19	58910.47800	58910.47466	0.00334
19	18	2	1	20	18	17	1	1	19	58910.47800	58910.47466	0.00334
22	17	6	1	23	21	16	5	1	22	59531.76600	59531.78748	-0.02148
22	17	5	1	23	21	16	6	1	22	59531.76600	59531.78748	-0.02148
20	18	2	1	19	19	17	3	1	20	59886.70900	59886.72347	-0.01447
20	18	3	1	19	19	17	2	1	20	59886.70900	59886.72347	-0.01447
21	18	3	1	22	20	17	4	1	21	60862.84300	60862.84634	-0.00334
21	18	4	1	22	20	17	3	1	21	60862.84300	60862.84634	-0.00334
19	19	0	1	20	18	18	1	1	19	61216.64800	61216.63484	0.01316
19	19	1	1	20	18	18	0	1	19	61216.64800	61216.63484	0.01316
22	18	4	1	23	21	17	5	1	22	61838.80900	61838.78585	0.02315
22	18	5	1	23	21	17	4	1	22	61838.80900	61838.78585	0.02315
21	19	2	1	22	20	18	3	1	21	63169.20800	63169.21760	-0.00960
21	19	3	1	22	20	18	2	1	21	63169.20800	63169.21760	-0.00960
15	0	15	0	15	14	0	14	0	14	12888.09551	12888.09559	-0.00008
15	0	15	0	14	14	0	14	0	13	12888.12657	12888.12754	-0.00097
15	0	15	0	16	14	0	14	0	15	12888.13428	12888.13374	0.00054
15	0	15	0	15	14	1	14	0	14	12883.95544	12883.95560	-0.00016
15	0	15	0	14	14	1	14	0	13	12883.98324	12883.98425	-0.00101
15	0	15	0	16	14	1	14	0	15	12883.99122	12883.99067	0.00055
16	0	16	0	16	15	0	15	0	15	13718.88737	13718.88729	0.00008
16	0	16	0	15	15	0	15	0	14	13718.91429	13718.91497	-0.00068
16	0	16	0	17	15	0	15	0	16	13718.92116	13718.92069	0.00047
16	0	16	0	16	15	1	15	0	15	13716.60994	13716.60982	0.00012
16	0	16	0	15	15	1	15	0	14	13716.63522	13716.63579	-0.00057
16	0	16	0	17	15	1	15	0	16	13716.64220	13716.64161	0.00059
17	0	17	0	17	16	0	16	0	16	14549.89690	14549.89692	-0.00002
17	0	17	0	16	16	0	16	0	15	14549.92076	14549.92120	-0.00044

J	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	J'	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	v <sub>obs.</sub> / MHz	v <sub>calc.</sub> / MHz	Δv / MHz
17	0	17	0	18	16	0	16	0	17	14549.92749	14549.92647	0.00102
12	1	12	0	12	11	0	11	0	11	10412.33693	10412.33719	-0.00026
12	1	12	0	11	11	0	11	0	10	10412.40355	10412.40408	-0.00053
12	1	12	0	13	11	0	11	0	12	10412.41112	10412.41073	0.00039
12	1	12	0	12	11	1	11	0	11	10388.85343	10388.85333	0.00010
12	1	12	0	11	11	1	11	0	10	10388.89712	10388.89778	-0.00066
12	1	12	0	13	11	1	11	0	12	10388.90660	10388.90626	0.00034
14	1	13	0	14	13	1	12	0	13	12942.98976	12942.99026	-0.00050
14	1	13	0	15	13	1	12	0	14	12943.13437	12943.13542	-0.00105
14	1	13	0	13	13	1	12	0	12	12943.14300	12943.14254	0.00046
15	1	15	0	15	14	0	14	0	14	12890.37247	12890.37306	-0.00059
15	1	15	0	14	14	0	14	0	13	12890.40588	12890.40672	-0.00084
15	1	15	0	16	14	0	14	0	15	12890.41345	12890.41282	0.00063
15	1	15	0	15	14	1	14	0	14	12886.23301	12886.23307	-0.00006
15	1	15	0	14	14	1	14	0	13	12886.26265	12886.26344	-0.00079
15	1	15	0	16	14	1	14	0	15	12886.27011	12886.26975	0.00036
16	1	16	0	16	15	0	15	0	15	13720.13099	13720.13104	-0.00005
16	1	16	0	15	15	0	15	0	14	13720.15893	13720.15960	-0.00067
16	1	16	0	17	15	0	15	0	16	13720.16576	13720.16527	0.00049
16	1	16	0	16	15	1	15	0	15	13717.85361	13717.85357	0.00004
16	1	16	0	15	15	1	15	0	14	13717.87975	13717.88042	-0.00067
16	1	16	0	17	15	1	15	0	16	13717.88660	13717.88619	0.00041
17	1	17	0	17	16	0	16	0	16	14550.57269	14550.57182	0.00087
17	1	17	0	16	16	0	16	0	15	14550.59599	14550.59656	-0.00057
17	1	17	0	18	16	0	16	0	17	14550.60247	14550.60181	0.00066
17	1	17	0	17	16	1	16	0	16	14549.32839	14549.32808	0.00031
17	1	17	0	16	16	1	16	0	15	14549.35149	14549.35193	-0.00044
17	1	17	0	18	16	1	16	0	17	14549.35799	14549.35722	0.00077
10	2	8	0	10	9	2	7	0	9	10337.88311	10337.88314	-0.00003
10	2	8	0	11	9	2	7	0	10	10337.94012	10337.93996	0.00016
10	2	8	0	9	9	2	7	0	8	10337.95950	10337.95966	-0.00016
10	2	9	0	10	9	1	8	0	9	10438.43897	10438.43858	0.00039
10	2	9	0	11	9	1	8	0	10	10439.13615	10439.13608	0.00007
10	2	9	0	9	9	1	8	0	8	10439.20955	10439.20916	0.00039
14	2	13	0	14	13	2	12	0	13	12864.60043	12864.60028	0.00015
14	2	13	0	15	13	2	12	0	14	12864.69640	12864.69534	0.00106
14	2	13	0	13	13	2	12	0	12	12864.69791	12864.69817	-0.00026
11	2	10	0	11	10	2	9	0	10	10295.21127	10295.21121	0.00006

J	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	J'	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	v <sub>obs.</sub> / MHz	v <sub>calc.</sub> / MHz	Δv / MHz
11	2	10	0	12	10	2	9	0	11	10295.31399	10295.31435	-0.00036
11	2	10	0	10	10	2	9	0	9	10295.32052	10295.31994	0.00058
6	3	3	0	5	5	2	4	0	4	11826.92986	11826.92954	0.00032
6	3	3	0	7	5	2	4	0	6	11826.99353	11826.99348	0.00005
6	3	3	0	6	5	2	4	0	5	11827.36748	11827.36660	0.00088
7	3	4	0	6	6	2	5	0	5	13007.91838	13007.91789	0.00049
7	3	4	0	7	6	2	5	0	6	13008.58227	13008.58273	-0.00046
7	3	5	0	7	6	2	4	0	6	12084.05891	12084.05848	0.00043
7	3	5	0	8	6	2	4	0	7	12084.85638	12084.85570	0.00068
7	3	5	0	6	6	2	4	0	5	12084.99823	12084.99829	-0.00006
8	3	6	0	8	7	2	5	0	7	12719.87651	12719.87650	0.00001
8	3	6	0	9	7	2	5	0	8	12720.78686	12720.78601	0.00085
8	3	6	0	7	7	2	5	0	6	12720.92089	12720.92112	-0.00023
13	3	11	0	13	12	3	10	0	12	12613.90178	12613.90261	-0.00083
13	3	11	0	14	12	3	10	0	13	12613.96985	12613.97038	-0.00053
13	3	11	0	12	12	3	10	0	11	12613.97714	12613.97661	0.00053
12	3	9	0	13	11	3	8	0	12	12419.75417	12419.75371	0.00046
12	3	9	0	12	11	3	8	0	11	12419.84772	12419.84748	0.00024
6	4	3	0	6	5	3	2	0	5	13912.80920	13912.80972	-0.00052
6	4	3	0	7	5	3	2	0	6	13912.92116	13912.92074	0.00042
6	4	3	0	5	5	3	2	0	4	13912.94663	13912.94702	-0.00039
8	4	5	0	8	7	3	4	0	7	15761.76876	15761.76925	-0.00049
8	4	5	0	9	7	3	4	0	8	15762.02932	15762.02875	0.00057
8	4	5	0	7	7	3	4	0	6	15762.07039	15762.07120	-0.00081
7	4	3	0	7	6	3	4	0	6	14921.31312	14921.31267	0.00045
7	4	3	0	8	6	3	4	0	7	14921.32691	14921.32721	-0.00030
7	4	3	0	6	6	3	4	0	5	14921.33681	14921.33605	0.00076
6	5	2	0	6	5	4	1	0	5	16235.64907	16235.64960	-0.00053
6	5	2	0	7	5	4	1	0	6	16235.69014	16235.69090	-0.00076
6	5	2	0	5	5	4	1	0	4	16235.69854	16235.69826	0.00028
6	5	1	0	6	5	4	2	0	5	16235.97914	16235.97898	0.00016
6	5	1	0	7	5	4	2	0	6	16236.01815	16236.01887	-0.00072
8	4	4	0	9	7	3	5	0	8	15924.02063	15924.02080	-0.00017
8	4	4	0	8	7	3	5	0	7	15924.05285	15924.05273	0.00012
13	4	10	0	14	12	4	9	0	13	12855.37213	12855.37211	0.00002
13	4	10	0	13	12	4	9	0	12	12855.38271	12855.38207	0.00064
13	5	8	0	14	12	5	7	0	13	12883.41172	12883.41223	-0.00051
13	5	8	0	13	12	5	7	0	12	12883.48397	12883.48419	-0.00022

## S1: Rotational transitions of 7,8-benzoquinoline

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5	3	2	0	4	4	2	3	0	3	10644.00353	10644.00283	0.00070
5	3	2	0	6	4	2	3	0	5	10644.06732	10644.06756	-0.00024
5	3	2	0	5	4	2	3	0	4	10644.34290	10644.34338	-0.00048
5	3	3	0	5	4	2	2	0	4	10402.91180	10402.91205	-0.00025
5	3	3	0	6	4	2	2	0	5	10403.28766	10403.28696	0.00070
5	3	3	0	4	4	2	2	0	3	10403.39102	10403.39117	-0.00015
7	3	4	0	6	6	2	5	0	5	13018.23998	13018.23982	0.00016
7	3	4	0	8	6	2	5	0	7	13018.33853	13018.33783	0.00070
7	3	4	0	7	6	2	5	0	6	13018.95480	13018.95448	0.00032
8	3	6	0	8	7	2	5	0	7	12568.20038	12568.19939	0.00099
8	3	6	0	9	7	2	5	0	8	12568.99418	12568.99369	0.00049
8	3	6	0	7	7	2	5	0	6	12569.11313	12569.11187	0.00126
5	4	1	0	6	4	3	2	0	5	12764.12396	12764.12426	-0.00030
5	4	1	0	4	4	3	2	0	3	12764.12981	12764.12849	0.00132
5	4	1	0	5	4	3	2	0	4	12764.13844	12764.13935	-0.00091
5	4	2	0	5	4	3	1	0	4	12757.12020	12757.11982	0.00038
5	4	2	0	6	4	3	1	0	5	12757.13464	12757.13432	0.00032
5	4	2	0	4	4	3	1	0	3	12757.14546	12757.14639	-0.00093
6	4	3	0	6	5	3	2	0	5	13737.92374	13737.92389	-0.00015
6	4	3	0	7	5	3	2	0	6	13737.98043	13737.97966	0.00077
6	4	3	0	5	5	3	2	0	4	13737.99499	13737.99546	-0.00047
7	4	4	0	7	6	3	3	0	6	14693.49342	14693.49346	-0.00004
7	4	4	0	8	6	3	3	0	7	14693.61851	14693.61842	0.00009
7	4	4	0	6	6	3	3	0	5	14693.64422	14693.64422	0.00000
7	4	3	0	6	6	3	4	0	5	14777.75459	14777.75576	-0.00117
7	4	3	0	8	6	3	4	0	7	14777.75921	14777.75839	0.00082
7	4	3	0	7	6	3	4	0	6	14777.80088	14777.80118	-0.00030
3	2	2	0	3	2	1	1	0	2	6092.28090	6092.28117	-0.00027
3	2	2	0	4	2	1	1	0	3	6093.21618	6093.21549	0.00069
3	2	2	0	2	2	1	1	0	1	6093.73338	6093.73400	-0.00062
7	0	7	0	6	6	1	6	0	5	6124.76771	6124.76745	0.00026
7	0	7	0	8	6	1	6	0	7	6124.81137	6124.81145	-0.00008
7	0	7	0	7	6	1	6	0	6	6124.87620	6124.87628	-0.00008
6	1	5	0	6	5	1	4	0	5	6254.17517	6254.17532	-0.00015
6	1	5	0	7	5	1	4	0	6	6254.31772	6254.31766	0.00006
6	1	5	0	5	5	1	4	0	4	6254.36679	6254.36705	-0.00026

J	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	J'	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	v <sub>obs.</sub> / MHz	v <sub>calc.</sub> / MHz	Δv / MHz
7	1	7	0	7	6	1	6	0	6	6277.31809	6277.31839	-0.00030
7	1	7	0	6	6	1	6	0	5	6277.37779	6277.37804	-0.00025
7	1	7	0	8	6	1	6	0	7	6277.40090	6277.40087	0.00003
7	1	7	0	7	6	0	6	0	6	6523.85801	6523.85814	-0.00013
7	1	7	0	8	6	0	6	0	7	6524.18821	6524.18845	-0.00024
7	1	7	0	6	6	0	6	0	5	6524.20743	6524.20748	-0.00005
7	4	4	0	8	6	4	3	0	7	7017.34182	7017.34267	-0.00085
7	4	4	0	6	6	4	3	0	5	7017.34737	7017.34586	0.00151
7	4	4	0	7	6	4	3	0	6	7017.35187	7017.35335	-0.00148
7	3	5	0	7	6	3	4	0	6	7018.18916	7018.19079	-0.00163
7	3	5	0	8	6	3	4	0	7	7018.19450	7018.19466	-0.00016
7	3	5	0	6	6	3	4	0	5	7018.19952	7018.19839	0.00113
7	3	4	0	6	6	3	3	0	5	7126.30138	7126.30081	0.00057
7	3	4	0	8	6	3	3	0	7	7126.31077	7126.31114	-0.00037
7	3	4	0	7	6	3	3	0	6	7126.42639	7126.42627	0.00012
8	1	8	0	8	7	1	7	0	7	7137.57645	7137.57653	-0.00008
8	1	8	0	7	7	1	7	0	6	7137.63510	7137.63525	-0.00015
8	1	8	0	9	7	1	7	0	8	7137.65255	7137.65290	-0.00035
8	0	8	0	8	7	0	7	0	7	7199.36310	7199.36316	-0.00006
8	0	8	0	7	7	0	7	0	6	7199.49634	7199.49676	-0.00042
8	0	8	0	9	7	0	7	0	8	7199.50358	7199.50366	-0.00008
7	1	6	0	7	6	1	5	0	6	7213.63554	7213.63561	-0.00007
7	1	6	0	8	6	1	5	0	7	7213.81955	7213.81937	0.00018
7	1	6	0	6	6	1	5	0	5	7213.85980	7213.85998	-0.00018
7	2	5	0	8	6	2	4	0	7	7398.51695	7398.51715	-0.00020
7	2	5	0	6	6	2	4	0	5	7398.52454	7398.52480	-0.00026
7	2	5	0	7	6	2	4	0	6	7398.60217	7398.60220	-0.00003
8	2	7	0	8	7	2	6	0	7	7760.21183	7760.21176	0.00007
8	2	7	0	9	7	2	6	0	8	7760.30492	7760.30528	-0.00036
8	2	7	0	7	7	2	6	0	6	7760.31138	7760.31112	0.00026
12	1	11	0	11	11	2	10	0	10	11093.56858	11093.56763	0.00095
12	1	11	0	13	11	2	10	0	12	11093.57612	11093.57600	0.00012
12	1	11	0	12	11	2	10	0	11	11093.61144	11093.61119	0.00025
11	4	7	0	10	10	4	6	0	9	11245.10851	11245.10892	-0.00041
11	4	7	0	12	10	4	6	0	11	11245.11639	11245.11603	0.00036
11	4	7	0	11	10	4	6	0	10	11245.21678	11245.21721	-0.00043
12	2	11	0	12	11	2	10	0	11	11331.13473	11331.13435	0.00038
12	2	11	0	13	11	2	10	0	12	11331.23198	11331.23250	-0.00052

J	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	J'	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	v <sub>obs.</sub> / MHz	v <sub>calc.</sub> / MHz	Δv / MHz
12	2	11	0	11	11	2	10	0	10	11331.23596	11331.23528	0.00068
13	0	13	0	13	12	1	12	0	12	11373.53803	11373.53816	-0.00013
13	0	13	0	12	12	1	12	0	11	11373.56884	11373.56824	0.00060
13	1	13	0	13	12	1	12	0	12	11378.38567	11378.38553	0.00014
13	1	13	0	12	12	1	12	0	11	11378.41955	11378.41919	0.00036
13	1	13	0	14	12	1	12	0	13	11378.42733	11378.42756	-0.00023
13	0	13	0	13	12	0	12	0	12	11382.50640	11382.50620	0.00020
13	0	13	0	12	12	0	12	0	11	11382.54366	11382.54332	0.00034
13	0	13	0	14	12	0	12	0	13	11382.55101	11382.55141	-0.00040
13	1	13	0	13	12	0	12	0	12	11387.35430	11387.35357	0.00073
13	1	13	0	12	12	0	12	0	11	11387.39477	11387.39426	0.00051
13	1	13	0	14	12	0	12	0	13	11387.40155	11387.40210	-0.00055
12	1	11	0	12	11	1	10	0	11	11471.18979	11471.19014	-0.00035
12	1	11	0	13	11	1	10	0	12	11471.36842	11471.36805	0.00037
12	1	11	0	11	11	1	10	0	10	11471.37858	11471.37913	-0.00055
11	2	9	0	11	10	2	8	0	10	11528.62914	11528.62959	-0.00045
11	2	9	0	12	10	2	8	0	11	11528.75495	11528.75496	-0.00001
11	2	9	0	10	10	2	8	0	9	11528.77470	11528.77446	0.00024
12	3	10	0	12	11	3	9	0	11	11908.32877	11908.32855	0.00022
12	3	10	0	13	11	3	9	0	12	11908.39272	11908.39333	-0.00061
12	3	10	0	11	11	3	9	0	10	11908.39880	11908.39864	0.00016
12	5	8	0	13	11	5	7	0	12	12108.82650	12108.82704	-0.00054
12	5	8	0	11	11	5	7	0	10	12108.84608	12108.84645	-0.00037
12	5	8	0	12	11	5	7	0	11	12108.86830	12108.86767	0.00063
12	5	7	0	13	11	5	6	0	12	12132.80512	12132.80302	0.00210
12	5	7	0	12	11	5	6	0	11	12132.85181	12132.85217	-0.00036
14	0	14	0	14	13	1	13	0	13	12219.37798	12219.37798	0.00000
14	0	14	0	13	13	1	13	0	12	12219.40603	12219.40563	0.00040
14	0	14	0	15	13	1	13	0	14	12219.41300	12219.41328	-0.00028
14	1	14	0	14	13	1	13	0	13	12221.97235	12221.97236	-0.00001
14	1	14	0	13	13	1	13	0	12	12222.00170	12222.00182	-0.00012
14	1	14	0	15	13	1	13	0	14	12222.00912	12222.00935	-0.00023
14	0	14	0	14	13	0	13	0	13	12224.22525	12224.22535	-0.00010
14	0	14	0	13	13	0	13	0	12	12224.25650	12224.25658	-0.00008
14	0	14	0	15	13	0	13	0	14	12224.26393	12224.26397	-0.00004
14	1	14	0	14	13	0	13	0	13	12226.81963	12226.81973	-0.00010
14	1	14	0	13	13	0	13	0	12	12226.85258	12226.85276	-0.00018
14	1	14	0	15	13	0	13	0	14	12226.86010	12226.86004	0.00006



J	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	J'	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	v <sub>obs.</sub> / MHz	v <sub>calc.</sub> / MHz	Δv / MHz
12	4	8	0	11	11	4	7	0	10	12363.13569	12363.13564	0.00005
12	4	8	0	13	11	4	7	0	12	12363.14231	12363.14254	-0.00023
12	4	8	0	12	11	4	7	0	11	12363.26475	12363.26467	0.00008
12	3	9	0	13	11	3	8	0	12	12738.08800	12738.08808	-0.00008
12	3	9	0	11	11	3	8	0	10	12738.09118	12738.09066	0.00052
12	3	9	0	12	11	3	8	0	11	12738.14106	12738.14130	-0.00024
13	3	11	0	13	12	3	10	0	12	12839.98105	12839.98046	0.00059
13	3	11	0	14	12	3	10	0	13	12840.05428	12840.05516	-0.00088
13	3	11	0	12	12	3	10	0	11	12840.06065	12840.06042	0.00023
15	1	15	0	15	14	1	14	0	14	13065.20499	13065.20499	0.00000
15	1	15	0	14	14	1	14	0	13	13065.23159	13065.23086	0.00073
15	1	15	0	16	14	1	14	0	15	13065.23700	13065.23767	-0.00067
15	0	15	0	15	14	0	14	0	14	13066.42276	13066.42244	0.00032
15	0	15	0	14	14	0	14	0	13	13066.44910	13066.44920	-0.00010
15	0	15	0	16	14	0	14	0	15	13066.45582	13066.45595	-0.00013
14	3	11	0	14	13	3	10	0	13	14863.10885	14863.10853	0.00032
14	3	11	0	15	13	3	10	0	14	14863.15202	14863.15096	0.00106
14	3	11	0	13	13	3	10	0	12	14863.15947	14863.16052	-0.00105
18	0	18	0	18	17	1	17	0	17	15593.88409	15593.88462	-0.00053
18	0	18	0	17	17	1	17	0	16	15593.90182	15593.90256	-0.00074
18	0	18	0	19	17	1	17	0	18	15593.90913	15593.90773	0.00140
8	4	5	0	8	7	3	4	0	7	15603.15274	15603.15380	-0.00106
8	4	5	0	9	7	3	4	0	8	15603.37471	15603.37542	-0.00071
8	4	5	0	7	7	3	4	0	6	15603.40985	15603.41118	-0.00133
8	4	4	0	7	7	3	5	0	6	15811.12975	15811.13162	-0.00187
8	4	4	0	9	7	3	5	0	8	15811.13871	15811.14014	-0.00143
8	4	4	0	8	7	3	5	0	7	15811.22499	15811.22588	-0.00089
6	3	3	0	5	5	2	4	0	4	11778.09032	11778.09057	-0.00025
6	3	3	0	7	5	2	4	0	6	11778.16792	11778.16740	0.00052
7	3	5	0	7	6	2	4	0	6	11946.98908	11946.98918	-0.00010
6	3	4	0	7	5	2	3	0	6	11225.21541	11225.21453	0.00088
6	3	4	0	5	5	2	3	0	4	11225.33319	11225.33278	0.00041
4	4	0	0	5	3	3	1	0	4	11765.66306	11765.66232	0.00074
4	4	0	0	4	3	3	1	0	3	11765.67365	11765.67314	0.00051
4	4	1	0	5	3	3	0	0	4	11764.67277	11764.67288	-0.00011
4	4	1	0	4	3	3	0	0	3	11764.67818	11764.67700	0.00118
6	4	2	0	7	5	3	3	0	6	13766.07869	13766.07924	-0.00055
6	4	2	0	6	5	3	3	0	5	13766.10265	13766.10247	0.00018

J	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	J'	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	v <sub>obs.</sub> / MHz	v <sub>calc.</sub> / MHz	Δv / MHz
5	5	0	0	6	4	4	1	0	5	14984.37957	14984.37865	0.00092
5	5	0	0	4	4	4	1	0	3	14984.38810	14984.38649	0.00161
5	5	1	0	5	4	4	0	0	4	14984.33327	14984.33331	-0.00004
7	4	3	0	8	6	4	2	0	7	7023.09644	7023.09660	-0.00016
7	4	3	0	7	6	4	2	0	6	7023.11777	7023.11771	0.00006
11	6	6	0	12	10	6	5	0	11	11036.72804	11036.72777	0.00027
11	6	6	0	10	10	6	5	0	9	11036.74206	11036.74322	-0.00116
11	6	5	0	12	10	6	4	0	11	11037.17099	11037.17199	-0.00100
11	6	5	0	11	10	6	4	0	10	11037.18325	11037.18366	-0.00041
11	5	7	0	10	10	5	6	0	9	11076.97735	11076.97759	-0.00024
11	5	7	0	11	10	5	6	0	10	11077.00178	11077.00164	0.00014
11	5	6	0	10	10	5	5	0	9	11087.80598	11087.80494	0.00104
11	5	6	0	11	10	5	5	0	10	11087.84015	11087.84007	0.00008
11	4	8	0	10	10	4	7	0	9	11104.63299	11104.63233	0.00066
11	4	8	0	11	10	4	7	0	10	11104.64323	11104.64413	-0.00090
11	3	8	0	12	10	3	7	0	11	11620.32911	11620.32957	-0.00046
11	3	8	0	11	10	3	7	0	10	11620.42976	11620.42966	0.00010
13	6	8	0	12	12	6	7	0	11	13088.28450	13088.28443	0.00007
13	6	8	0	13	12	6	7	0	12	13088.30647	13088.30620	0.00027
16	2	15	0	16	15	2	14	0	15	14750.25403	14750.25407	-0.00004
16	2	15	0	15	15	2	14	0	14	14750.32826	14750.32825	0.00001
16	1	15	0	16	15	1	14	0	15	14771.70543	14771.70532	0.00011
16	1	15	0	17	15	1	14	0	16	14771.79114	14771.79098	0.00016
12	2	10	0	13	11	2	9	0	12	12453.46325	12453.46353	-0.00028
12	2	10	0	11	11	2	9	0	10	12453.48279	12453.48245	0.00034
9	6	4	0	9	9	5	5	0	9	12161.62216	12161.62225	-0.00009
9	6	4	0	10	9	5	5	0	10	12161.63773	12161.63876	-0.00103
9	6	3	0	10	9	5	4	0	10	12159.42009	12159.41994	0.00015
7	0	7	0	7	6	0	6	0	6	6371.41585	6371.41603	-0.00018
7	0	7	0	8	6	0	6	0	7	6371.59909	6371.59902	0.00007
14	1	13	0	14	13	2	12	0	13	12964.84183	12964.84218	-0.00035
14	1	13	0	15	13	2	12	0	14	12964.88313	12964.88325	-0.00012
13	2	12	0	13	12	1	11	0	12	12432.29443	12432.29454	-0.00011
13	2	12	0	13	12	2	11	0	12	12194.77113	12194.77139	-0.00026
13	2	12	0	12	12	2	11	0	11	12194.86591	12194.86687	-0.00096
12	4	9	0	13	11	4	8	0	12	12122.39697	12122.39693	0.00004
16	15	1	1	16	15	14	2	1	15	48171.81200	48171.80877	0.00323
17	17	1	1	17	16	16	0	1	16	53612.61000	53612.58172	0.02828

J	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	J'	K <sub>a</sub>	K <sub>c</sub>	F <sub>1</sub>	F	v <sub>obs.</sub> / MHz	v <sub>calc.</sub> / MHz	Δv / MHz
18	15	4	1	18	17	14	3	1	17	50165.55200	50165.52992	0.02208
18	18	1	1	18	17	17	0	1	17	56831.52300	56831.48596	0.03704
19	14	6	1	19	18	13	5	1	18	48938.52500	48938.55264	-0.02764
19	15	5	1	19	18	14	4	1	18	51161.99400	51161.95623	0.03777
19	19	1	1	19	18	18	0	1	18	60050.40100	60050.36768	0.03332
20	15	6	1	20	19	14	5	1	19	52157.96700	52157.94428	0.02272
20	19	2	1	20	19	18	1	1	19	61047.47600	61047.48310	-0.00710
21	13	8	1	20	20	12	9	1	19	48699.96900	48700.00556	-0.03656
21	14	8	1	20	20	13	7	1	19	50927.95200	50927.96768	-0.01568
21	18	4	1	21	20	17	3	1	20	59822.52500	59822.50571	0.01929
22	15	8	1	22	21	14	7	1	21	54148.08500	54148.09416	-0.00916
22	16	7	1	22	21	15	6	1	21	56372.88600	56372.89196	-0.00596
22	20	3	1	22	21	19	2	1	21	65263.38900	65263.39199	-0.00299
22	22	1	1	22	21	21	0	1	21	69706.86300	69706.86526	-0.00226
23	12	11	1	24	22	11	12	1	23	48440.38600	48440.39391	-0.00791
23	17	7	1	23	22	16	6	1	22	59592.27200	59592.28133	-0.00933
23	22	2	1	23	22	21	1	1	22	70703.99000	70703.98510	0.00490
24	12	12	1	25	23	11	13	1	24	49422.62700	49422.61228	0.01472
24	14	11	1	23	23	13	10	1	22	53903.99600	53904.01640	-0.02040
24	17	8	1	24	23	16	7	1	23	60587.61600	60587.62028	-0.00428
25	11	14	1	26	24	10	15	1	25	48131.10500	48131.28776	-0.18276
25	12	13	1	24	24	11	14	1	23	50401.51400	50401.51899	-0.00499
25	16	10	1	24	24	15	9	1	23	59355.81000	59355.78757	0.02243
25	21	5	1	25	24	20	4	1	24	70476.02400	70475.98568	0.03832
26	11	15	1	25	25	10	16	1	24	49094.41600	49094.86218	-0.44618
26	13	13	1	27	25	12	14	1	26	53635.30400	53635.25535	0.04865
26	14	13	1	25	25	13	12	1	24	55880.21300	55880.21640	-0.00340
26	16	11	1	25	25	15	10	1	24	60348.27500	60348.27344	0.00156
27	14	13	1	26	26	13	14	1	25	56865.27000	56865.23070	0.03930
27	15	13	1	26	26	14	12	1	25	59105.61800	59105.62292	-0.00492
28	13	15	1	27	27	12	16	1	26	55590.70200	55590.69884	0.00316
28	15	14	1	27	27	14	13	1	26	60092.62000	60092.60653	0.01347
29	15	15	1	28	28	14	14	1	27	61077.60100	61077.58113	0.01987
30	14	16	1	29	29	13	17	1	28	59804.34400	59804.42191	-0.07791
17	15	3	1	17	16	14	2	1	16	49168.69500	49168.77956	-0.08456

Table S2 Ground State Combination Difference Fit (MHz)

J'	Ka'	Kc'	J''	Ka''	Kc''	GSCD exp	GSCD calc	exp-calc
2	2	0	2	0	2	2326.40000	2315.77790	10.62210
3	2	1	3	0	3	2695.10000	2689.27235	5.82765
4	3	2	3	1	2	7611.70000	7643.10940	-31.40940
4	4	1	2	2	1	13056.00000	13085.65074	-29.65074
5	2	4	4	2	2	3810.40000	3839.62011	-29.22011
4	3	1	4	1	3	3786.40000	3778.39979	8.00021
4	4	0	4	2	2	6112.80000	6097.69727	15.10273
5	4	2	4	4	0	4655.80000	4689.25652	-33.45652
6	1	6	5	1	4	1894.70000	1914.16014	-19.46014
5	2	3	5	0	5	4517.90000	4499.61818	18.28182
6	2	5	5	2	3	4029.20000	4054.40489	-25.20489
6	0	6	5	2	4	1400.00000	1394.53581	5.46419
5	3	2	5	1	4	3888.30000	3859.60066	28.69934
5	1	5	4	1	3	1999.60000	2013.38553	-13.78553
6	4	2	5	4	2	5696.10000	5706.44151	-10.34151
6	5	2	4	3	2	18997.90000	18989.95797	7.94203
6	6	0	5	4	2	16443.60000	16458.45314	-14.85314
7	1	7	5	1	5	10022.10000	10040.07721	-17.97721
6	2	5	5	0	5	8541.10000	8554.02307	-12.92307
7	0	7	6	2	5	1499.00000	1514.40483	-15.40483
6	3	3	6	1	5	4308.00000	4300.91084	7.08916
6	3	4	5	1	4	9224.60000	9244.43859	-19.83859
6	2	5	5	2	3	4068.20000	4054.40489	13.79511
6	4	3	6	2	5	7335.90000	7332.52274	3.37726
6	3	3	5	3	3	6166.70000	6157.25117	9.44883
7	5	3	6	3	3	14752.80000	14744.08613	8.71387
7	3	4	5	3	2	12996.00000	12995.98782	0.01218
7	5	2	7	3	4	7683.70000	7699.27063	-15.57063
7	6	2	6	6	0	6556.50000	6556.18330	0.31670
7	6	1	6	6	1	6556.50000	6556.43862	0.06138
7	7	1	5	5	1	25170.60000	25191.80348	-21.20348
7	7	0	5	5	0	25170.60000	25191.64943	-21.04943
7	1	6	6	1	6	9770.20000	9774.81586	-4.61586
8	1	8	7	1	6	1678.80000	1708.66437	-29.86437
7	2	5	7	0	7	7416.90000	7414.97381	1.92619
8	2	7	7	2	5	3873.30000	3912.13483	-38.83483
8	0	8	6	0	6	11467.10000	11494.60522	-27.50522
7	1	6	6	3	4	2416.30000	2444.53741	-28.23741
7	3	4	7	1	6	5186.40000	5166.61248	19.78752
8	3	6	7	3	4	6172.70000	6215.40107	-42.70107
7	4	3	7	2	5	5210.40000	5195.45201	14.94799
8	2	6	7	4	4	2683.10000	2711.75421	-28.65421
7	5	2	7	3	4	7701.70000	7699.27063	2.42937
8	5	4	7	5	2	7557.80000	7562.41967	-4.61967
8	5	3	7	5	3	7590.70000	7612.11408	-21.41408
8	6	3	7	4	3	18077.50000	18090.44459	-12.94459
8	6	2	7	4	4	18239.40000	18264.67704	-25.27704
9	2	8	8	2	6	3687.40000	3707.90945	-20.50945
9	1	8	8	3	6	3018.90000	3053.46573	-34.56573
8	4	4	8	2	6	5330.30000	5310.44042	19.85958
9	4	6	8	4	4	8034.40000	8048.02379	-13.62379
9	2	7	8	2	7	12213.50000	12260.07104	-46.57104
8	5	3	8	3	5	7186.00000	7183.87940	2.12060
8	5	4	7	3	4	15268.40000	15261.69030	6.70970
8	6	2	8	4	4	10210.90000	10242.48241	-31.58241
9	6	3	8	4	5	19174.70000	19200.76076	-26.06076
8	7	1	8	5	3	12822.10000	12850.19246	-28.09246
9	8	2	8	6	2	23563.70000	23574.28235	-10.58235
9	8	1	8	6	3	23563.70000	23575.89826	-12.19826
9	9	1	7	7	1	33333.90000	33278.27188	55.62812
9	9	0	7	7	0	33333.90000	33278.26979	55.63021
10	1	10	8	1	8	14333.10000	14358.99450	-25.89450
10	2	9	8	2	7	15751.10000	15785.76331	-34.66331
10	0	10	8	0	8	14333.10000	14360.48305	-27.38305
10	3	8	9	3	6	6058.80000	6081.00692	-22.20692
9	3	7	8	1	7	12660.20000	12660.61694	-0.41694
9	4	5	9	2	7	5893.90000	5873.97883	19.92117
10	4	7	9	4	5	8400.20000	8435.61796	-35.41796
10	2	8	9	4	6	4137.10000	4180.03288	-42.93288
9	5	4	9	3	6	6739.30000	6735.90213	3.39787
10	5	6	9	5	4	9389.50000	9404.55079	-15.05079
9	6	3	9	4	5	9725.30000	9749.25715	-23.95715
10	6	4	9	6	4	9548.40000	9520.55131	27.84869
10	7	4	9	7	2	9419.50000	9427.37351	-7.87351
9	7	3	8	5	3	21300.30000	21302.86343	-2.56343

9 8 1 9 6 3	15040.60000	15066.35302	-25.75302
10 8 3 9 8 1	9428.50000	9382.90842	45.59158
9 8 2 9 6 4	15040.60000	15074.09012	-33.49012
10 8 2 9 8 2	9428.50000	9382.94661	45.55339
10 10 1 8 8 1	37375.10000	37321.49278	53.60722
10 10 0 8 8 0	37375.10000	37321.49255	53.60745
11 1 11 9 1 9	15763.10000	15795.10636	-32.00636
11 2 10 9 2 8	17214.10000	17231.31950	-17.21950
11 0 11 9 0 9	15763.10000	15795.62681	-32.52681
10 3 7 10 1 9	9635.30000	9626.35434	8.94566
11 3 9 10 3 7	5807.00000	5802.81411	4.18589
10 3 8 9 1 8	14012.30000	14022.08124	-9.78124
10 4 6 10 2 8	6916.20000	6908.90810	7.29190
11 4 8 10 4 6	8505.10000	8537.50312	-32.40312
11 2 9 10 4 7	4562.80000	4559.91916	2.88084
10 5 5 10 3 7	6532.50000	6525.58820	6.91180
10 6 4 10 4 6	9113.70000	9126.26116	-12.56116
11 6 6 10 6 4	10438.80000	10459.09398	-20.29398
10 6 5 10 4 7	10768.50000	10797.21371	-28.71371
11 6 5 10 6 5	10573.70000	10580.00761	-6.30761
10 7 3 10 5 5	12297.50000	12342.61104	-45.11104
11 7 5 10 7 3	10441.80000	10412.48122	29.31878
10 5 6 9 5 4	9437.50000	9404.55079	32.94921
11 11 1 9 9 1	41395.30000	41364.70000	30.60000
11 11 0 9 9 0	41395.30000	41364.69998	30.60002
12 1 12 10 1 10	17214.10000	17230.99253	-16.89253
11 0 11 10 2 9	1612.90000	1609.08607	3.81393
12 2 11 11 0 11	17061.20000	17061.31012	-0.11012
12 0 12 10 0 10	17214.10000	17231.17074	-17.07074
11 3 8 11 1 10	11338.20000	11347.67880	-9.47880
12 3 10 11 3 8	5510.20000	5510.72464	-0.52464
11 3 9 11 1 11	13790.50000	13810.49186	-19.99186
12 1 11 11 3 9	3270.70000	3249.40767	21.29233
11 5 7 11 3 9	10870.50000	10874.72024	-4.22024
12 3 9 11 5 7	5399.30000	5394.67880	4.62120
12 5 7 12 3 9	7491.80000	7454.13678	37.66322
11 6 6 11 4 8	11020.40000	11047.85202	-27.45202
12 8 5 11 8 3	11392.10000	11335.56971	56.53029
11 8 4 11 6 6	14794.80000	14831.73388	-36.93388
12 8 4 11 8 4	11392.10000	11336.79935	55.30065
11 7 4 10 7 4	10435.80000	10419.55784	16.24216
11 9 2 11 7 4	17148.10000	17156.78035	-8.68035
12 9 4 11 9 2	11308.20000	11282.53772	25.66228
11 7 5 10 7 3	10435.80000	10412.48122	23.31878
11 9 3 11 7 5	17148.10000	17162.51835	-14.41835
12 9 3 11 9 3	11308.20000	11282.57368	25.62632
11 8 3 10 8 3	10354.80000	10354.58801	0.21199
11 10 1 11 8 3	19468.50000	19448.92939	19.57061
12 10 3 11 10 1	11251.20000	11245.16597	6.03403
11 8 4 10 8 2	10354.80000	10354.34244	0.45756
11 10 2 11 8 4	19468.50000	19449.14060	19.35940
12 10 2 11 10 2	11251.20000	11245.16661	6.03339
12 12 1 10 10 1	45421.60000	45407.89845	13.70155
12 12 0 10 10 0	45421.60000	45407.89845	13.70155
13 1 13 11 1 11	18674.10000	18666.82126	7.27874
12 2 10 11 2 10	16803.40000	16822.29004	-18.89004
13 2 12 12 2 10	3300.70000	3284.50518	16.19482
13 0 13 11 0 11	18674.10000	18666.88128	7.21872
13 3 11 12 1 11	18293.30000	18297.00473	-3.70473
12 3 10 11 1 10	16842.30000	16858.40345	-16.10345
13 4 10 12 4 8	8067.40000	8068.24679	-0.84679
12 3 9 11 5 7	5408.30000	5394.67880	13.62120
12 5 7 12 3 9	7452.80000	7454.13678	-1.33678
13 5 9 12 5 7	10852.50000	10879.26487	-26.76487
12 5 8 12 3 10	11856.80000	11883.98099	-27.18099
13 3 10 12 5 8	5995.80000	5985.45194	10.34806
12 6 6 12 4 8	7968.50000	7981.47954	-12.97954
12 6 7 11 6 5	11368.10000	11393.72404	-25.62404
12 7 5 12 5 7	11152.30000	11186.25634	-33.95634
12 8 4 12 6 6	14414.00000	14437.77587	-23.77587
13 8 6 12 8 4	12354.40000	12327.08583	27.31417
13 9 5 12 7 5	29286.70000	29272.97259	13.72741
13 10 4 12 10 2	12210.50000	12211.79843	-1.29843
13 10 3 12 10 3	12210.50000	12211.80345	-1.30345
12 9 3 11 9 3	11293.20000	11282.57368	10.62632
12 11 1 12 9 3	21633.00000	21633.51161	-0.51161
13 11 3 12 11 1	12186.60000	12176.87504	9.72496
12 9 4 11 9 2	11293.20000	11282.53772	10.66228

12 11 2 12 9 4	21633.00000	21633.54297	-0.54297
13 11 2 12 11 2	12186.60000	12176.87512	9.72488
13 12 2 11 10 2	47268.30000	47273.25675	-4.95675
13 13 1 11 11 1	49471.80000	49451.09118	20.70882
13 13 0 11 11 0	49471.80000	49451.09118	20.70882
13 1 12 12 1 12	18491.20000	18498.61635	-7.41635
14 1 14 13 1 12	1612.90000	1604.03058	8.86942
14 2 13 12 2 11	21534.10000	21542.25574	-8.15574
13 2 12 12 0 12	18491.20000	18499.12539	-7.92539
14 0 14 13 2 12	1612.90000	1603.54149	9.35851
14 1 13 12 1 11	21534.10000	21543.42586	-9.32586
13 4 9 12 4 9	16695.40000	16710.56655	-15.16655
14 4 11 13 4 9	7665.70000	7676.21022	-10.51022
13 4 10 12 2 10	18065.50000	18088.76596	-23.26596
14 5 10 13 5 8	10768.50000	10796.66104	-28.16104
14 3 11 13 5 9	6355.60000	6345.53835	10.06165
13 6 7 13 4 9	7821.60000	7814.70046	6.89954
14 4 10 13 4 10	18521.20000	18551.78410	-30.58410
13 7 6 13 5 8	10381.80000	10413.56306	-31.76306
14 8 6 13 6 8	27907.70000	27884.90639	22.79361
13 7 6 12 7 6	12504.30000	12481.69885	22.60115
13 9 4 13 7 6	16791.40000	16812.00358	-20.60358
14 9 6 13 9 4	13265.80000	13246.49576	19.30424
13 9 5 12 7 5	29259.70000	29272.97259	-13.27259
14 9 5 13 9 5	13265.80000	13247.40193	18.39807
13 8 5 12 8 5	12336.50000	12332.18310	4.31690
13 10 3 13 8 5	19240.70000	19238.14600	2.55400
14 10 5 13 10 3	13190.90000	13185.85566	5.04434
13 8 6 12 8 4	12336.50000	12327.08583	9.41417
13 10 4 13 8 6	19240.70000	19242.22046	-1.52046
14 10 4 13 10 4	13190.90000	13185.88591	5.01409
13 9 4 12 9 4	12285.50000	12260.00491	25.49509
13 9 5 12 9 3	12285.50000	12259.80636	25.69364
13 10 3 12 10 3	12222.50000	12211.80345	10.69655
13 12 1 13 10 3	23800.50000	23816.28728	-15.78728
14 12 3 13 12 1	13136.90000	13108.83092	28.06908
13 10 4 12 10 2	12222.50000	12211.79843	10.70157
13 12 2 13 10 4	23800.50000	23816.29170	-15.79170
14 12 2 13 12 2	13136.90000	13108.83093	28.06907
14 13 2 12 11 2	51339.50000	51316.57834	22.92166
14 13 1 12 11 1	51339.50000	51316.57834	22.92166
14 14 1 12 12 1	53495.00000	53494.28004	0.71996
14 14 0 12 12 0	53495.00000	53494.28004	0.71996
15 1 15 13 1 13	21534.10000	21538.48401	-4.38401
14 0 14 13 2 12	1576.90000	1603.54149	-26.64149
14 2 12 14 0 14	18113.50000	18129.45850	-15.95850
15 2 14 14 2 12	3264.70000	3244.48504	20.21496
15 0 15 13 0 13	21534.10000	21538.49056	-4.39056
14 1 14 13 1 12	1576.90000	1604.03058	-27.13058
14 3 12 14 1 14	18113.50000	18134.75890	-21.25890
15 1 14 14 3 12	3264.70000	3239.12163	25.57837
14 4 10 13 4 10	18524.20000	18551.78410	-27.58410
14 5 9 14 3 11	10273.90000	10282.07851	-8.17851
14 6 8 14 4 10	8151.40000	8154.04626	-2.64626
15 6 10 14 6 8	13220.80000	13223.21540	-2.41540
14 7 7 14 5 9	9671.30000	9677.81432	-6.51432
15 5 10 14 7 8	5678.10000	5674.05210	4.04790
15 7 8 15 5 10	9191.60000	9169.57420	22.02580
14 8 6 14 6 8	13298.80000	13318.15640	-19.35640
15 8 8 14 8 6	14354.10000	14332.06027	22.03973
14 6 9 13 6 7	12882.10000	12865.78731	16.31269
14 10 4 13 8 6	32434.60000	32428.10638	6.49362
15 10 6 14 10 4	14186.20000	14168.12831	18.07169
14 10 5 13 8 5	32434.60000	32424.00166	10.59834
15 10 5 14 10 5	14186.20000	14168.27887	17.92113
14 12 2 13 10 4	36913.50000	36925.12264	-11.62264
15 12 4 14 12 2	14105.20000	14072.44074	32.75926
14 12 3 13 10 3	36913.50000	36925.11820	-11.61820
15 12 3 14 12 3	14105.20000	14072.44083	32.75917
14 13 1 13 11 3	39146.90000	39139.70330	7.19670
15 13 3 14 13 1	14027.30000	14040.97100	-13.67100
15 13 2 13 11 2	53174.20000	53180.67422	-6.47422
14 12 2 13 12 2	13091.90000	13108.83093	-16.93093
15 14 2 14 12 2	42264.70000	42251.03377	13.66623
14 12 3 13 12 1	13091.90000	13108.83092	-16.93092
15 14 1 14 12 3	42264.70000	42251.03378	13.66622
15 15 1 13 13 1	57515.20000	57537.46619	-22.26619
15 15 0 13 13 0	57515.20000	57537.46619	-22.26619

16	1	16	14	1	14	22955.10000	22974.33420	-19.23420
15	0	15	14	2	13	1582.90000	1601.80598	-18.90598
16	2	15	15	0	15	22799.20000	22810.92860	-11.72860
16	0	16	14	0	14	22955.10000	22974.33633	-19.23633
15	1	14	14	3	12	3213.80000	3239.12163	-25.32163
15	3	12	15	1	14	17633.80000	17654.92544	-21.12544
16	3	14	15	3	12	4985.50000	4968.01123	17.48877
15	1	15	14	1	13	1582.90000	1601.97988	-19.07988
16	1	15	15	1	15	22799.20000	22810.90688	-11.70688
16	4	13	15	4	11	7060.10000	7041.12169	18.97831
15	4	12	15	2	14	17669.80000	17692.79616	-22.99616
16	2	14	15	4	12	4949.60000	4929.30433	20.29567
15	3	12	14	5	10	6529.50000	6541.39007	-11.89007
15	5	10	15	3	12	12105.60000	12115.98755	-10.38755
16	5	12	15	5	10	10001.10000	10016.68701	-15.58701
15	3	13	14	3	11	5009.50000	5025.59047	-16.09047
15	5	11	15	3	13	15712.10000	15733.26388	-21.16388
16	3	13	15	5	11	6637.40000	6631.00373	6.39627
16	6	11	15	6	9	13268.80000	13255.19129	13.60871
15	6	10	15	4	12	14048.30000	14063.02535	-14.72535
16	4	12	15	6	10	7833.60000	7836.12547	-2.52547
15	7	8	15	5	10	9161.70000	9169.57420	-7.87420
15	7	9	15	5	11	13451.70000	13466.59993	-14.89993
15	8	7	15	6	9	12459.40000	12486.59062	-27.19062
15	8	8	14	6	8	27637.90000	27650.21667	-12.31667
15	9	6	15	7	8	16065.90000	16095.24687	-29.34687
15	9	7	15	7	9	16482.60000	16499.61970	-17.01970
16	10	7	15	10	5	15175.50000	15159.44540	16.05460
15	10	6	15	8	8	18922.90000	18918.28211	4.61789
16	10	6	15	10	6	15175.50000	15160.08815	15.41185
15	9	6	14	9	6	14249.10000	14246.79734	2.30266
15	11	4	15	9	6	21315.20000	21312.31014	2.88986
16	11	6	15	11	4	15112.50000	15092.05172	20.44828
15	9	7	14	9	5	14249.10000	14243.24635	5.85365
15	11	5	15	9	7	21315.20000	21315.11834	0.08166
16	11	5	15	11	5	15112.50000	15092.07540	20.42460
15	12	3	14	10	5	37791.80000	37811.70337	-19.90337
16	12	5	15	12	3	15064.60000	15041.90345	22.69655
15	12	4	14	10	4	37791.80000	37811.67747	-19.87747
16	12	4	15	12	4	15064.60000	15041.90406	22.69594
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36	13	24	36	11	26	28783.10000	28783.87951	-0.77951
38	1	38	36	1	36	54550.20000	54564.07483	-13.87483
38	2	37	36	2	35	55986.20000	55999.17835	-12.97835

38	0	38	36	0	36	54550.20000	54564.07483	-13.87483
38	3	36	36	3	34	57419.30000	57435.53623	-16.23623
38	1	37	36	1	35	55986.20000	55999.17835	-12.97835
38	4	35	36	4	33	58846.30000	58874.34986	-28.04986
38	2	36	36	2	34	57419.30000	57435.53623	-16.23623
38	3	35	36	3	33	58846.30000	58874.34986	-28.04986
38	9	30	37	9	28	15094.60000	15116.07232	-21.47232
38	10	29	37	10	27	17106.20000	17096.34877	9.85123
38	8	30	37	10	28	15094.60000	15114.61489	-20.01489
37	13	24	37	11	26	24547.00000	24555.66624	-8.66624
37	15	23	37	13	25	26903.40000	26908.45775	-5.05775
37	16	21	37	14	23	22982.10000	22978.48522	3.61478
39	1	39	37	1	37	55986.20000	55999.98407	-13.78407
39	2	38	37	2	36	57419.30000	57435.06030	-15.76030
39	0	39	37	0	37	55986.20000	55999.98407	-13.78407
39	3	37	37	3	35	58846.30000	58871.31622	-25.01622
39	1	38	37	1	36	57419.30000	57435.06030	-15.76030
39	4	36	37	4	34	60276.30000	60309.87043	-33.57043
39	2	37	37	2	35	58846.30000	58871.31622	-25.01622
39	5	35	38	5	33	8073.40000	8058.06030	15.33970
39	3	36	37	3	34	60276.30000	60309.87043	-33.57043
38	6	32	38	4	34	45412.60000	45399.68291	12.91709
39	6	34	38	6	32	9737.30000	9735.99638	1.30362
39	4	35	38	6	33	8073.40000	8058.06029	15.33971
38	7	32	38	5	34	45412.60000	45399.68302	12.91698
39	10	30	38	8	30	54049.60000	54030.10790	19.49210
39	9	30	38	9	30	54049.60000	54029.81500	19.78500
38	16	22	38	14	24	21372.20000	21353.51240	18.68760
40	1	40	38	1	38	57419.30000	57435.89356	-16.59356
40	2	39	38	2	37	58846.30000	58870.94471	-24.64471
40	0	40	38	0	38	57419.30000	57435.89356	-16.59356
40	3	38	38	3	36	60276.30000	60307.10738	-30.80738
40	1	39	38	1	37	58846.30000	58870.94471	-24.64471
39	4	35	38	4	35	55344.70000	55337.65902	7.04098
40	4	37	39	4	35	6400.60000	6407.76654	-7.16654
40	2	38	38	2	36	60276.30000	60307.10738	-30.80738
39	5	35	38	3	35	55344.70000	55337.65902	7.04098
40	3	37	39	5	35	6400.60000	6407.76654	-7.16654
40	6	35	39	6	33	9743.30000	9724.77912	18.52088
40	4	36	39	6	34	8070.40000	8051.65051	18.74949
40	5	35	39	7	33	9743.30000	9724.77908	18.52092
39	12	28	39	10	30	36191.00000	36161.04650	29.95350
40	11	29	39	11	29	54682.20000	54651.61195	30.58805
41	2	40	39	2	38	60276.30000	60306.83133	-30.53133
41	3	39	39	3	37	61745.30000	61742.90849	2.39151
41	1	40	39	1	38	60276.30000	60306.83133	-30.53133
41	2	39	39	2	37	61745.30000	61742.90849	2.39151
40	15	25	40	13	27	21141.40000	21129.52527	11.87473
42	1	42	40	1	40	60276.30000	60307.71315	-31.41315
42	2	41	40	2	39	61745.30000	61742.71993	2.58007
42	0	42	40	0	40	60276.30000	60307.71315	-31.41315
42	1	41	40	1	39	61745.30000	61742.71993	2.58007
41	14	28	41	12	30	34083.40000	34079.61998	3.78002
41	20	22	41	18	24	37078.30000	37039.54250	38.75750
42	18	24	41	20	22	4251.10000	4316.22040	-65.12040
43	8	36	42	8	34	13118.90000	13118.98068	-0.08068
42	13	29	42	11	31	35546.40000	35507.32366	39.07634
42	14	28	42	12	30	31751.00000	31707.99144	43.00856
44	8	37	43	8	35	13118.90000	13098.12395	20.77605
44	7	37	43	9	35	13118.90000	13098.12357	20.77643
44	6	38	44	4	40	54061.60000	54097.15395	-35.55395
45	6	40	44	6	38	9689.30000	9680.06647	9.23353
45	5	40	44	7	38	9689.30000	9680.06647	9.23353
44	17	28	44	15	30	31397.30000	31382.29701	15.00299
48	17	32	48	15	34	37162.30000	37136.98806	25.31194

1	10099	A	1010.794( 47)	-0.000
2	20099	B	556.3229(254)	0.0000
3	30099	C	358.9781(168)	-0.0000
MICROWAVE AVG =		-0.852411 MHz,	IR AVG =	0.00000
MICROWAVE RMS =		22.849811 MHz,	IR RMS =	0.00000

