Frequency (MHz)	J upper	Ka upper	J lower	Ka lower	ΔV (km/s)	Ta (K)
220539.4128	12	7	11	7	1.360301074	0.800
220594.4923	12	6	11	6	1.359961425	1.800
220641.12	12	5	11	5	1.359674026	2.200
220679.32	12	4	11	4	1.359438664	2.600
220709.08	12	3	11	3	1.35925536	5.500
220730.27	12	2	11	2	1.359124872	4.6
220742.99	12	1	11	1	1.359046555	6.7
220747.24	12	0	11	0	1.359020389	7.600

El (cm-1)	El (MHz)	Eu (MHz)	$8k\pi/hc^3$	$e^{-hEl/kT}$ (@300K)	$e^{-hEu/kT}$ (@300K)
283.6085	8502368.93247	8722908.34527	1.9436E-05	0.25662055	0.24772469
219.1546	6570089.62160	6790684.11390	1.9436E-05	0.34957311	0.33745203
164.5919	4934341.02679	5154982.14679	1.9436E-05	0.45413282	0.43838298
119.9327	3595491.89276	3816171.21276	1.9436E-05	0.56260095	0.54308598
85.1873	2553851.00574	2774560.08574	1.9436E-05	0.66461365	0.64155711
60.3634	1809649.20592	2030379.47592	1.9436E-05	0.74864037	0.72266636
45.4669	1363063.37086	1583806.36086	1.9436E-05	0.80408162	0.77618250
40.501	1214189.43415	1434936.67415	1.9436E-05	0.82346143	0.79488935

Intensities:				Icat (nm^2MHz)	Q (300 K)
Line #	LOG int.	10^(LOG int)	Sum		
1	-3.3181	0.000480729	0.001452313	0.001452313	41079.2740
	-5.4734	3.36202E-06		0.004500496	41079.2740
	-5.4734	3.36202E-06		0.003207340	41079.2740
	-8.2331	5.84655E-09		0.004275715	41079.2740
	-3.2816	0.000522878		0.010656357	41079.2740
	-3.3546	0.000441977		0.006225518	41079.2740
				0.006830354	41079.2740
2	-4.9822	1.04184E-05	0.004500496	0.007044911	41079.2740
	-2.8269	0.001489704			
	-2.7904	0.001620317			
	-7.7419	1.81176E-08			
	-2.8634	0.00136962			
	-4.9822	1.04184E-05			
3	-2.97	0.001066596	0.003207340		
	-2.9355	0.001160112			
	-3.0085	0.000980618			
	-7.887	1.29718E-08			
4	-2.8471	0.001422001	0.004275715		
	-2.8836	0.001307374			
	-2.8107	0.001546322			
	-7.7622	1.72902E-08			
5	-2.4505	0.003544051	0.010656357		
	-2.487	0.003258367			
	-2.4141	0.003853896			
	-7.3655	4.31023E-08			
6	-2.684	0.002070141	0.006225518		
	-2.7204	0.001903707			
	-2.6475	0.002251645			
	-7.599	2.51768E-08			
7	-2.6802	0.002088334	0.006830354		
	-2.6437	0.002271433			
	-2.6072	0.002470586			
8	-2.6667	0.002154269	0.007044911		
	-2.6303	0.00234261			
	-2.5938	0.002548003			
	-7.5453	2.84905E-08			

A g	ln term	Eu (K)	intercept	e^intercept	Q rot	N
			22.82300	8.16E+09	18334.31267	1.50E+14
0.092841353	20.88791243	418.4728627				
0.21125508	20.87691821	325.7763247				
0.115915605	21.67800418	247.3051477	slope	T		
0.124757313	21.77172341	183.077023	-0.0052	192.3076923		
0.263243616	21.77438536	133.1067639				
0.136541218	22.25224295	97.40543843				
0.139485947	22.60701446	75.98153685				
0.14048447	22.72594135	68.83966151				

Partition Function:

T	Q
300.00000	41079.274
225.00000	23622.3423
150.00000	11400.261
75	3803.0012
37.5	1347.2433
18.75	492.9504