

MASTER

C00-2326-18

Lines in the Spectrum of

${}^6\text{LiD}(3086 \pm 5156 \text{ \AA})^*$

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The emission spectra of the $A^1\Sigma^+ - X^1\Sigma^+$ bands of ${}^6\text{LiD}$ were photographed in the $3086 \text{ \AA} - 5156 \text{ \AA}$ region with a 3.4 meter Ebert Spectrograph of theoretical resolution of about 0.07 cm^{-1} . High purity ${}^6\text{LiD}$ crystals were obtained from Oak Ridge National Laboratory. The atomic percent of ${}^6\text{Li}$ in ${}^6\text{LiD}$ was 95.58%. The discharge source is a demountable stainless steel hollow cathode lamp. A detailed description of the discharge tube is given in [1]. The lithium deuteride crystals were packed into the cathode. Pressure in the discharge tube was about 10 to 20 torr of D_2 . The discharge was run at about 600 volts and 1.25-1.75 amperes. Acceptable spectra were obtained with exposure time of 6 hours. A Westinghouse iron hollow cathode was used to produce the iron spectrum for calibration. The plates were measured on the Gaertner photoplate comparator with an encoder system and on-line computer service at Argonne National Laboratory. I would like to acknowledge the help of Dr. Fred Tomkins of Argonne National Laboratory in using the comparator.

The measured lines in the spectra of ${}^6\text{LiD}$ are given in this report (C00-2326-18). Similar spectra for ${}^6\text{LiH}$ and ${}^7\text{LiH}$ are given in companion reports (C00-2326-17) and (C00-2326-19), respectively. The relative intensities of the lines are applicable only to short regions and do not extend over the whole spectrum. The assigned lines along with those reported in Jorgensen's thesis [2] are listed in Report (C00-2326-20). These spectra are now being compared with spectra obtained in this laboratory from collisions of fast ($\sim 5 \text{ eV}$) H atoms with a Li_2 crossed beam.

References

1. K. C. Li, Ph.D. Thesis, University of Iowa (1976).
2. T. Jorgensen Jr., Ph.D. Thesis, Harvard University (1935).

ASSIGNMENT

(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
32393.940	3086.1009	12.	0.199
32393.258	3086.1659	14.	0.364
32392.791	3086.2104	13.	0.166
32390.628	3086.4165	12.	0.199
32389.829	3086.4927	13.	0.265
32388.905	3086.5807	12.	0.166
32388.544	3086.6151	13.	0.166
32388.159	3086.6518	13.	0.265
32387.749	3086.6909	12.	0.132
32387.457	3086.7187	13.	0.166
32387.100	3086.7527	12.	0.166
32386.718	3086.7892	12.	0.199
32386.392	3086.8202	12.	0.166
32386.065	3086.8514	12.	0.166
32385.665	3086.8895	12.	0.232
32385.368	3086.9178	12.	0.166
32384.932	3086.9594	12.	0.232
32384.558	3086.9950	12.	0.166
32384.186	3087.0305	13.	0.298
32383.684	3087.0784	13.	0.364
32383.246	3087.1201	12.	0.166
32382.845	3087.1583	12.	0.199
32382.537	3087.1877	12.	0.132
32382.311	3087.2093	12.	0.132
32381.971	3087.2417	13.	0.166
32381.540	3087.2828	14.	0.232
32381.149	3087.3201	13.	0.132
32380.647	3087.3679	16.	0.364
32380.149	3087.4154	16.	0.364
32379.518	3087.4755	13.	0.199
32379.194	3087.5064	13.	0.132
32378.730	3087.5507	14.	0.166
32378.262	3087.5954	17.	0.232
32377.940	3087.6260	15.	0.199
32377.486	3087.6694	12.	0.132
32377.142	3087.7022	14.	0.199
32376.856	3087.7294	12.	0.132
32376.393	3087.7735	13.	0.364
32375.950	3087.8158	12.	0.132
32375.666	3087.8429	13.	0.166
32375.015	3087.9050	14.	0.198
32374.264	3087.9767	13.	0.132

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
32373.939	3085.0076	14.	0.198
32373.556	3085.0442	13.	0.232
32373.235	3085.0748	12.	0.132
32372.883	3085.1084	12.	0.293
32372.287	3085.1653	14.	0.165
32372.015	3085.1912	14.	0.165
32371.428	3085.2471	14.	0.198
32371.096	3085.2788	13.	0.132
32370.717	3085.3150	13.	0.165
32370.440	3085.3415	13.	0.165
32369.820	3085.4006	13.	0.331
32369.302	3085.4500	14.	0.165
32368.984	3085.4804	14.	0.198
32368.564	3085.5109	14.	0.198
32367.943	3085.5797	15.	0.694
32366.852	3085.6839	14.	0.397
32365.744	3085.7896	16.	0.496
32365.251	3085.8366	14.	0.132
32365.032	3085.8575	14.	0.165
32364.746	3085.8848	14.	0.132
32364.369	3085.9207	12.	0.165
32364.003	3085.9557	14.	0.165
32363.469	3089.0067	13.	0.165
32362.587	3089.0909	13.	0.198
32362.182	3089.1296	12.	0.198
32361.814	3089.1647	13.	0.198
32361.482	3089.1964	12.	0.198
32361.049	3089.2377	13.	0.231
32360.694	3089.2716	13.	0.165
32359.742	3089.3625	13.	0.198
32359.416	3089.3936	13.	0.165
32359.102	3089.4236	13.	0.198
32358.767	3089.4555	12.	0.132
32358.367	3089.4938	12.	0.132
32358.109	3089.5184	12.	0.132
32357.750	3089.5526	13.	0.396
32357.227	3089.6026	13.	0.264
32356.729	3089.6502	12.	0.132
32356.469	3089.6750	12.	0.132
32356.225	3089.6983	13.	0.132
32355.750	3089.7437	12.	0.165
32355.441	3089.7731	13.	0.165
32355.017	3089.8137	14.	0.165
32354.738	3089.8403	15.	0.165
32354.420	3089.8706	15.	0.165
32353.893	3089.9210	12.	0.132
32353.092	3089.9975	12.	0.396
32352.485	3090.0555	13.	0.231
32351.859	3090.1152	12.	0.198
32350.932	3090.2039	12.	0.231
32350.542	3090.2411	12.	0.165
32350.156	3090.2779	13.	0.231
32349.872	3090.3050	12.	0.132
32349.571	3090.3339	13.	0.132
32349.205	3090.3688	16.	0.231
32348.863	3090.4015	16.	0.198
32348.554	3090.4310	14.	0.198
32348.187	3090.4661	12.	0.132
32347.935	3090.4902	13.	0.132
32347.620	3090.5202	14.	0.198

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)
32347.229	3090.5576	14.	0.231
32346.430	3090.6340	12.	0.198
32345.160	3090.7553	12.	0.132
32344.823	3090.7875	12.	0.198
32344.102	3090.8564	12.	0.165
32343.727	3090.8923	12.	0.165
32343.377	3090.9257	12.	0.198
32342.665	3090.9937	12.	0.198
32342.055	3091.0520	12.	0.396
32341.164	3091.1372	12.	0.132
32340.385	3091.2117	12.	0.132
32340.103	3091.2386	12.	0.165
32339.252	3091.3200	12.	0.264
32338.556	3091.3865	12.	0.132
32338.298	3091.4112	12.	0.165
32337.746	3091.4640	12.	0.363
32336.627	3091.5709	12.	0.165
32334.826	3091.7431	12.	0.198
32333.870	3091.8345	12.	0.264
32333.518	3091.8681	12.	0.132
32333.196	3091.8990	12.	0.165
32332.384	3091.9767	12.	0.132
32332.144	3091.9996	13.	0.132
32331.637	3092.0481	13.	0.297
32330.760	3092.1320	12.	0.264
32330.223	3092.1833	16.	0.396
32329.574	3092.2454	15.	0.561
32328.614	3092.3372	12.	0.363
32327.878	3092.4076	13.	0.363
32327.277	3092.4651	14.	0.297
32326.778	3092.5129	13.	0.165
32326.042	3092.5833	12.	0.330
32325.600	3092.6256	12.	0.165
32324.619	3092.7195	13.	0.165
32324.194	3092.7601	12.	0.132
32323.465	3092.8299	12.	0.198
32323.119	3092.8629	12.	0.165
32322.535	3092.9188	13.	0.396
32321.714	3092.9974	13.	0.231
32321.280	3093.0389	12.	0.231
32320.908	3093.0745	12.	0.132
32320.623	3093.1018	12.	0.132
32320.211	3093.1412	12.	0.165
32319.323	3093.2263	12.	0.165
32318.795	3093.2768	12.	0.231
32317.813	3093.3708	12.	0.198
32317.387	3093.4115	12.	0.165
32317.067	3093.4422	12.	0.132
32316.440	3093.5022	12.	0.329
32315.783	3093.5651	13.	0.296
32315.264	3093.6148	12.	0.193
32314.925	3093.6472	12.	0.165
32314.058	3093.7302	14.	0.758
32313.367	3093.7964	12.	0.263
32312.173	3093.9107	13.	0.198
32311.069	3094.0164	21.	0.560
32310.428	3094.0779	12.	0.165
32309.814	3094.1366	18.	0.626
32309.305	3094.1854	15.	0.165
32308.723	3094.2411	12.	0.193

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
32308.356	3094.2763	13.	0.230	
32308.025	3094.3079	12.	0.132	
32307.625	3094.3463	13.	0.329	
32306.981	3094.4079	14.	0.230	
32306.345	3094.4688	12.	0.263	
32306.037	3094.4984	12.	0.132	
32305.542	3094.5458	12.	0.165	
32305.079	3094.5902	13.	0.165	
32304.582	3094.6377	13.	0.165	
32304.169	3094.6773	14.	0.329	
32303.496	3094.7418	14.	0.132	
32303.233	3094.7670	15.	0.132	
32302.898	3094.7991	15.	0.197	
32302.406	3094.8462	13.	0.132	
32301.989	3094.8862	13.	0.296	
32301.493	3094.9337	13.	0.165	
32301.179	3094.9638	13.	0.132	
32300.884	3094.9921	12.	0.132	
32300.171	3095.0604	12.	0.165	
32299.838	3095.0923	12.	0.230	
32299.423	3095.1320	12.	0.230	
32298.224	3095.2470	12.	0.132	
32297.871	3095.2808	12.	0.296	
32297.300	3095.3356	13.	0.329	
32296.816	3095.3820	13.	0.164	
32296.192	3095.4418	12.	0.296	
32295.515	3095.5066	12.	0.296	
32295.032	3095.5529	13.	0.329	
32294.517	3095.6023	13.	0.164	
32294.167	3095.6359	12.	0.197	
32293.684	3095.6821	13.	0.197	
32293.329	3095.7162	12.	0.164	
32292.802	3095.7667	13.	0.329	
32292.061	3095.8377	12.	0.296	
32291.412	3095.8999	13.	0.230	
32289.935	3096.0416	12.	0.164	
32289.084	3096.1232	13.	0.197	
32288.616	3096.1681	12.	0.164	
32288.240	3096.2041	12.	0.263	
32287.307	3096.2936	12.	0.131	
32286.998	3096.3232	14.	0.131	
32286.717	3096.3502	15.	0.263	
32286.109	3096.4085	12.	0.131	
32285.845	3096.4338	12.	0.131	
32285.568	3096.4605	12.	0.164	
32285.113	3096.5040	12.	0.329	
32284.578	3096.5553	13.	0.164	
32284.217	3096.5900	14.	0.197	
32283.824	3096.6276	14.	0.230	
32283.472	3096.6614	13.	0.131	
32283.192	3096.6883	14.	0.164	
32282.657	3096.7396	14.	0.197	
32282.290	3096.7748	14.	0.197	
32281.854	3096.8156	14.	0.197	
32281.430	3096.8573	14.	0.296	
32280.837	3096.9142	14.	0.197	
32280.293	3096.9664	14.	0.164	
32279.931	3097.0012	14.	0.164	
32279.247	3097.0668	16.	0.361	
32278.837	3097.1060	15.	0.131	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
32278.457	3097.1425	15.	0.164
32278.229	3097.1644	14.	0.131
32277.718	3097.2135	14.	0.131
32277.417	3097.2423	14.	0.197
32277.061	3097.2765	13.	0.164
32276.760	3097.3054	13.	0.131
32276.359	3097.3439	13.	0.328
32275.917	3097.3863	13.	0.164
32274.827	3097.4909	14.	0.197
32274.501	3097.5222	16.	0.230
32274.160	3097.5549	15.	0.131
32273.888	3097.5811	14.	0.164
32273.553	3097.6132	13.	0.131
32273.226	3097.6445	13.	0.296
32272.856	3097.6801	13.	0.131
32272.600	3097.7047	13.	0.131
32272.194	3097.7437	14.	0.164
32271.829	3097.7787	14.	0.164
32271.396	3097.8202	13.	0.164
32271.015	3097.8568	14.	0.164
32270.710	3097.8860	13.	0.131
32270.356	3097.9201	13.	0.230
32269.731	3097.9801	14.	0.295
32269.268	3098.0245	14.	0.263
32268.878	3098.0620	13.	0.164
32268.590	3098.0896	13.	0.131
32268.142	3098.1326	13.	0.492
32267.599	3098.1847	13.	0.263
32267.275	3098.2159	13.	0.131
32266.963	3098.2458	14.	0.164
32266.640	3098.2768	13.	0.131
32266.269	3098.3125	13.	0.197
32265.884	3098.3494	14.	0.230
32265.517	3098.3847	13.	0.164
32265.202	3098.4150	13.	0.164
32264.946	3098.4396	13.	0.131
32264.484	3098.4839	14.	0.328
32264.005	3098.5299	14.	0.164
32263.716	3098.5576	13.	0.131
32263.320	3098.5957	14.	0.295
32262.817	3098.6440	14.	0.164
32262.329	3098.6908	15.	0.197
32262.015	3098.7210	15.	0.164
32261.501	3098.7704	13.	0.131
32261.222	3098.7972	13.	0.164
32260.925	3098.8258	14.	0.164
32260.267	3098.8889	13.	0.295
32259.911	3098.9231	13.	0.131
32259.237	3098.9879	13.	0.295
32258.837	3099.0264	13.	0.164
32258.546	3099.0543	13.	0.164
32258.154	3099.0919	13.	0.262
32257.562	3099.1488	13.	0.197
32257.220	3099.1817	13.	0.164
32256.850	3099.2172	13.	0.164
32256.547	3099.2463	13.	0.164
32256.263	3099.2736	13.	0.131
32255.738	3099.3241	14.	0.197
32255.321	3099.3641	13.	0.164
32255.042	3099.3910	14.	0.131

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
32254.627	3099.4309	13.	0.131
32254.327	3099.4596	13.	0.197
32253.858	3099.5047	13.	0.394
32253.091	3099.5785	13.	0.230
32252.521	3099.6332	13.	0.557
32251.691	3099.7130	15.	0.361
32251.070	3099.7727	14.	0.164
32250.356	3099.8413	14.	0.328
32249.957	3099.8797	14.	0.164
32249.613	3099.9128	15.	0.164
32249.350	3099.9380	15.	0.131
32248.809	3099.9900	22.	0.229
32248.102	3100.0580	13.	0.164
32247.842	3100.0830	13.	0.131
32247.520	3100.1140	13.	0.197
32247.064	3100.1578	13.	0.262
32246.707	3100.1921	12.	0.131
32246.410	3100.2207	14.	0.131
32246.141	3100.2465	13.	0.164
32245.851	3100.2744	12.	0.131
32245.384	3100.3193	17.	0.393
32244.908	3100.3651	13.	0.131
32244.591	3100.3955	14.	0.131
32244.158	3100.4371	14.	0.459
32243.079	3100.5409	14.	0.295
32242.317	3100.6143	12.	0.197
32241.655	3100.6779	21.	0.393
32239.592	3100.8763	12.	0.197
32238.756	3100.9567	12.	0.164
32238.252	3101.0053	12.	0.164
32237.416	3101.0856	12.	0.328
32237.053	3101.1205	12.	0.131
32236.499	3101.1739	13.	0.164
32235.840	3101.2372	14.	0.295
32235.439	3101.2710	13.	0.131
32234.724	3101.3446	12.	0.295
32234.327	3101.3828	12.	0.295
32233.377	3101.4742	12.	0.229
32232.654	3101.5438	13.	0.327
32232.014	3101.6054	13.	0.295
32231.663	3101.6391	12.	0.131
32230.474	3101.7536	13.	0.262
32230.010	3101.7982	12.	0.262
32228.730	3101.9214	12.	0.327
32228.112	3101.9809	12.	0.164
32227.113	3102.0770	12.	0.164
32226.187	3102.1662	12.	0.196
32225.504	3102.2319	12.	0.229
32223.775	3102.3985	12.	0.196
32221.975	3102.5717	12.	0.229
32221.629	3102.6051	12.	0.196
32220.467	3102.7170	13.	0.196
32219.960	3102.7658	12.	0.164
32219.595	3102.8009	14.	0.164
32219.312	3102.8282	13.	0.131
32219.051	3102.8533	12.	0.131
32218.795	3102.8780	12.	0.131
32217.862	3102.9678	12.	0.458
32216.026	3103.1447	12.	0.262
32214.523	3103.2895	12.	0.131

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
32214.262	3103.3146	12.	0.163	
32213.910	3103.3486	12.	0.163	
32213.254	3103.4118	12.	0.163	
32212.862	3103.4495	12.	0.131	
32212.432	3103.4909	14.	0.392	
32212.027	3103.5299	13.	0.131	
32210.546	3103.6727	12.	0.327	
32209.355	3103.7874	12.	0.196	
32209.021	3103.8196	12.	0.131	
32207.477	3103.9684	12.	0.131	
32207.131	3104.0018	14.	0.294	
32206.355	3104.0765	12.	0.131	
32205.680	3104.1416	14.	0.229	
32205.394	3104.1692	13.	0.131	
32204.827	3104.2238	12.	0.196	
32202.736	3104.4254	12.	0.359	
32200.039	3104.6854	13.	0.229	
32198.451	3104.8386	12.	0.131	
32198.153	3104.8673	12.	0.261	
32197.430	3104.9370	12.	0.196	
32196.961	3104.9823	12.	0.327	
32195.735	3105.1005	13.	0.163	
32195.204	3105.1517	12.	0.229	
32194.607	3105.2093	12.	0.163	
32192.803	3105.3833	12.	0.163	
32192.418	3105.4205	12.	0.326	
32191.195	3105.5384	12.	0.326	
32190.650	3105.5910	12.	0.359	
32188.600	3105.7888	12.	0.131	
32188.152	3105.8320	12.	0.424	
32187.409	3105.9037	14.	0.326	
32186.883	3105.9545	13.	0.196	
32185.894	3106.0499	12.	0.163	
32185.557	3106.0825	12.	0.228	
32185.271	3106.1100	12.	0.131	
32184.922	3106.1437	12.	0.163	
32184.355	3106.1985	12.	0.326	
32182.318	3106.3951	12.	0.163	
32181.072	3106.5154	12.	0.196	
32180.375	3106.5827	12.	0.196	
32180.045	3106.6145	12.	0.130	
32179.094	3106.7063	13.	0.130	
32178.797	3106.7350	13.	0.196	
32178.451	3106.7684	13.	0.163	
32177.887	3106.8229	12.	0.228	
32177.447	3106.8653	12.	0.130	
32177.023	3106.9062	15.	0.326	
32176.558	3106.9512	13.	0.130	
32176.338	3106.9724	13.	0.130	
32175.538	3107.0497	12.	0.196	
32173.365	3107.2595	12.	0.456	
32172.329	3107.3596	12.	0.196	
32171.806	3107.4101	12.	0.163	
32171.288	3107.4601	12.	0.163	
32170.878	3107.4998	12.	0.163	
32170.140	3107.5711	12.	0.163	
32169.369	3107.6455	12.	0.130	
32168.893	3107.6915	12.	0.130	
32168.645	3107.7155	13.	0.163	
32168.297	3107.7491	13.	0.196	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
32167.548	3107.8215	13.	0.130
32167.175	3107.8575	13.	0.163
32166.873	3107.8866	13.	0.163
32166.308	3107.9413	13.	0.195
32165.055	3108.0623	12.	0.130
32164.753	3108.0915	12.	0.163
32164.040	3108.1604	12.	0.228
32163.571	3108.2058	12.	0.391
32162.384	3108.3205	12.	0.195
32162.114	3108.3466	12.	0.163
32161.763	3108.3805	12.	0.195
32160.297	3108.5222	12.	0.163
32159.874	3108.5631	13.	0.163
32159.636	3108.5860	12.	0.130
32158.538	3108.6923	12.	0.163
32157.975	3108.7467	12.	0.163
32157.495	3108.7930	12.	0.130
32157.170	3108.8245	12.	0.260
32156.641	3108.8757	12.	0.326
32156.317	3108.9069	12.	0.130
32154.955	3109.0387	12.	0.163
32154.564	3109.0765	12.	0.195
32154.132	3109.1182	12.	0.326
32153.428	3109.1863	13.	0.260
32153.081	3109.2199	13.	0.163
32152.797	3109.2473	12.	0.228
32152.332	3109.2923	12.	0.325
32151.951	3109.3292	12.	0.130
32151.639	3109.3593	12.	0.228
32151.094	3109.4120	13.	0.130
32150.837	3109.4368	12.	0.130
32150.249	3109.4938	12.	0.228
32149.664	3109.5503	13.	0.163
32149.403	3109.5756	12.	0.163
32148.984	3109.6161	12.	0.163
32147.734	3109.7370	12.	0.163
32147.161	3109.7924	12.	0.195
32146.678	3109.8392	12.	0.358
32146.259	3109.8797	12.	0.163
32145.985	3109.9062	13.	0.195
32145.617	3109.9418	12.	0.195
32145.134	3109.9886	12.	0.130
32144.574	3110.0428	14.	0.228
32144.242	3110.0748	13.	0.130
32143.761	3110.1214	13.	0.163
32143.312	3110.1648	14.	0.163
32143.047	3110.1905	13.	0.163
32142.387	3110.2544	12.	0.358
32141.974	3110.2944	13.	0.163
32141.014	3110.3872	12.	0.260
32140.461	3110.4408	12.	0.260
32140.069	3110.4787	12.	0.163
32138.637	3110.6173	12.	0.195
32138.098	3110.6694	13.	0.163
32137.717	3110.7063	12.	0.260
32137.369	3110.7401	12.	0.163
32136.280	3110.8455	12.	0.260
32134.899	3110.9792	12.	0.390
32133.476	3111.1169	13.	0.228
32133.072	3111.1560	14.	0.195

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
32132.569	3111.2047	12.	0.163	
32131.342	3111.3235	12.	0.162	
32130.898	3111.3666	12.	0.227	
32130.500	3111.4050	12.	0.162	
32130.240	3111.4303	13.	0.130	
32129.946	3111.4588	13.	0.130	
32129.709	3111.4817	12.	0.130	
32129.212	3111.5298	12.	0.162	
32127.905	3111.6563	12.	0.162	
32126.986	3111.7454	13.	0.162	
32126.768	3111.7666	14.	0.162	
32126.403	3111.8019	13.	0.422	
32125.016	3111.9363	12.	0.325	
32124.532	3111.9832	12.	0.227	
32124.052	3112.0296	12.	0.195	
32123.209	3112.1113	12.	0.130	
32122.827	3112.1463	12.	0.292	
32122.334	3112.1961	12.	0.195	
32121.778	3112.2499	12.	0.162	
32121.487	3112.2782	12.	0.162	
32121.122	3112.3135	12.	0.292	
32120.769	3112.3477	12.	0.162	
32120.339	3112.3894	12.	0.357	
32119.916	3112.4303	12.	0.162	
32118.788	3112.5397	13.	0.195	
32118.202	3112.5965	12.	0.292	
32117.772	3112.6381	13.	0.260	
32117.393	3112.6749	14.	0.227	
32116.936	3112.7192	13.	0.357	
32116.471	3112.7643	13.	0.195	
32115.976	3112.8122	12.	0.130	
32115.553	3112.8532	12.	0.325	
32114.900	3112.9165	12.	0.162	
32114.368	3112.9681	12.	0.130	
32112.597	3113.1397	13.	0.195	
32111.752	3113.2217	12.	0.195	
32111.464	3113.2496	12.	0.162	
32111.094	3113.2855	12.	0.130	
32110.508	3113.3423	13.	0.195	
32110.184	3113.3737	13.	0.130	
32109.925	3113.3988	13.	0.162	
32109.399	3113.4498	12.	0.195	
32107.879	3113.5972	12.	0.162	
32107.274	3113.6559	12.	0.130	
32106.520	3113.7290	12.	0.130	
32106.201	3113.7600	12.	0.130	
32105.861	3113.7929	13.	0.324	
32105.321	3113.8453	12.	0.292	
32104.425	3113.9322	12.	0.162	
32104.081	3113.9656	12.	0.227	
32103.170	3114.0539	12.	0.162	
32102.557	3114.1135	12.	0.162	
32101.869	3114.1802	12.	0.162	
32099.086	3114.4502	12.	0.227	
32098.326	3114.5239	12.	0.195	
32097.716	3114.5831	12.	0.162	
32097.443	3114.6096	12.	0.162	
32096.910	3114.6614	12.	0.130	
32095.896	3114.7597	12.	0.259	
32095.066	3114.8403	12.	0.162	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
32093.648	3114.9779	12.	0.162	
32092.219	3115.1166	12.	0.162	
32091.620	3115.1748	12.	0.259	
32091.192	3115.2164	12.	0.259	
32089.251	3115.4047	12.	0.162	
32088.588	3115.4691	12.	0.259	
32088.088	3115.5177	12.	0.292	
32086.383	3115.6833	12.	0.162	
32086.045	3115.7161	12.	0.194	
32085.687	3115.7508	12.	0.162	
32085.212	3115.7969	14.	0.389	
32084.801	3115.8368	13.	0.130	
32083.923	3115.9221	12.	0.194	
32083.545	3115.9588	12.	0.162	
32082.522	3116.0582	12.	0.130	
32082.296	3116.0801	12.	0.130	
32082.029	3116.1061	12.	0.162	
32081.666	3116.1414	12.	0.259	
32081.297	3116.1772	13.	0.162	
32081.019	3116.2042	12.	0.130	
32080.751	3116.2302	12.	0.130	
32080.462	3116.2583	12.	0.194	
32079.953	3116.3078	14.	0.356	
32079.356	3116.3658	12.	0.130	
32079.120	3116.3887	12.	0.129	
32078.781	3116.4216	13.	0.227	
32078.166	3116.4814	12.	0.162	
32077.702	3116.5264	12.	0.291	
32075.815	3116.7098	12.	0.162	
32074.957	3116.7932	12.	0.194	
32074.328	3116.8543	13.	0.129	
32074.007	3116.8855	13.	0.194	
32073.708	3116.9146	12.	0.129	
32073.133	3116.9705	12.	0.129	
32072.888	3116.9943	12.	0.129	
32072.118	3117.0691	12.	0.129	
32071.506	3117.1286	13.	0.162	
32071.128	3117.1654	12.	0.356	
32070.257	3117.2499	12.	0.259	
32069.806	3117.2938	12.	0.129	
32069.446	3117.3288	12.	0.129	
32069.233	3117.3495	13.	0.162	
32068.930	3117.3790	13.	0.194	
32068.568	3117.4142	14.	0.162	
32068.263	3117.4438	12.	0.226	
32067.948	3117.4744	12.	0.129	
32066.702	3117.5955	13.	0.194	
32066.207	3117.6437	12.	0.194	
32065.740	3117.6892	12.	0.291	
32064.642	3117.7959	12.	0.194	
32064.292	3117.8299	12.	0.194	
32063.561	3117.9010	12.	0.162	
32062.751	3117.9798	12.	0.194	
32062.400	3118.0139	13.	0.194	
32061.385	3118.1126	12.	0.129	
32060.675	3118.1817	12.	0.259	
32060.285	3118.2196	12.	0.162	
32059.972	3118.2500	12.	0.162	
32059.566	3118.2895	12.	0.323	
32058.612	3118.3823	12.	0.162	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
32057.275	3115.5124	12.	0.162
32056.069	3118.6297	12.	0.226
32055.476	3118.6874	12.	0.356
32055.045	3118.7294	12.	0.129
32054.785	3118.7546	12.	0.129
32053.970	3118.8339	12.	0.129
32052.944	3118.9338	12.	0.291
32050.621	3119.1598	12.	0.129
32049.181	3119.3000	12.	0.194
32044.788	3119.7277	12.	0.323
32044.227	3119.7823	12.	0.484
32043.667	3119.8367	12.	0.291
32043.308	3119.8717	12.	0.129
32042.916	3119.9099	12.	0.323
32042.351	3119.9649	13.	0.387
32041.865	3120.0122	13.	0.194
32041.395	3120.0580	12.	0.420
32040.808	3120.1152	13.	0.355
32040.397	3120.1552	13.	0.161
32036.438	3120.5408	12.	0.129
32036.222	3120.5619	13.	0.129
32035.896	3120.5936	14.	0.355
32035.272	3120.6544	12.	0.129
32034.982	3120.6827	12.	0.129
32034.228	3120.7561	12.	0.129
32033.988	3120.7794	12.	0.129
32033.649	3120.8125	12.	0.258
32033.070	3120.8689	12.	0.161
32032.483	3120.9261	13.	0.129
32030.410	3121.1281	13.	0.161
32029.685	3121.1988	12.	0.258
32029.275	3121.2387	13.	0.161
32028.860	3121.2791	12.	0.129
32028.608	3121.3037	13.	0.129
32028.049	3121.3582	12.	0.129
32027.491	3121.4126	12.	0.161
32027.241	3121.4369	12.	0.129
32026.930	3121.4672	12.	0.194
32026.324	3121.5263	12.	0.129
32026.030	3121.5550	12.	0.290
32025.651	3121.5919	12.	0.161
32025.319	3121.6242	12.	0.161
32025.056	3121.6499	12.	0.161
32024.602	3121.6941	12.	0.161
32024.259	3121.7276	12.	0.129
32024.068	3121.7463	12.	0.129
32023.639	3121.7880	12.	0.129
32023.315	3121.8196	12.	0.193
32022.970	3121.8533	13.	0.161
32021.897	3121.9578	12.	0.193
32021.260	3122.0200	12.	0.193
32020.743	3122.0704	12.	0.161
32019.408	3122.2005	12.	0.161
32018.184	3122.3199	12.	0.258
32017.654	3122.3716	12.	0.226
32017.380	3122.3983	12.	0.129
32016.007	3122.5323	13.	0.516
32015.504	3122.5813	12.	0.161
32015.233	3122.6077	12.	0.129
32014.985	3122.6319	12.	0.129

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
32057.275	3115.5124	12.	0.162
32056.069	3118.6297	12.	0.226
32055.476	3118.6874	12.	0.356
32055.045	3118.7294	12.	0.129
32054.785	3118.7546	12.	0.129
32053.970	3118.8339	12.	0.129
32052.944	3118.9338	12.	0.291
32050.621	3119.1598	12.	0.129
32049.181	3119.3000	12.	0.194
32044.788	3119.7277	12.	0.323
32044.227	3119.7823	12.	0.484
32043.667	3119.8367	12.	0.291
32043.308	3119.8717	12.	0.129
32042.916	3119.9099	12.	0.323
32042.351	3119.9649	13.	0.387
32041.865	3120.0122	13.	0.194
32041.395	3120.0580	12.	0.420
32040.808	3120.1152	13.	0.355
32040.397	3120.1552	13.	0.161
32036.438	3120.5408	12.	0.129
32036.222	3120.5619	13.	0.129
32035.896	3120.5936	14.	0.355
32035.272	3120.6544	12.	0.129
32034.982	3120.6827	12.	0.129
32034.228	3120.7551	12.	0.129
32033.988	3120.7794	12.	0.129
32033.649	3120.8125	12.	0.258
32033.070	3120.8689	12.	0.161
32032.483	3120.9261	13.	0.129
32030.410	3121.1281	13.	0.161
32029.685	3121.1988	12.	0.253
32029.275	3121.2387	13.	0.161
32028.860	3121.2791	12.	0.129
32028.608	3121.3037	13.	0.129
32028.049	3121.3582	12.	0.129
32027.491	3121.4126	12.	0.161
32027.241	3121.4369	12.	0.129
32026.930	3121.4672	12.	0.194
32026.324	3121.5263	12.	0.129
32026.030	3121.5550	12.	0.290
32025.651	3121.5919	12.	0.161
32025.319	3121.6242	12.	0.161
32025.056	3121.6499	12.	0.161
32024.602	3121.6941	12.	0.161
32024.259	3121.7276	12.	0.129
32024.068	3121.7463	12.	0.129
32023.639	3121.7880	12.	0.129
32023.315	3121.8196	12.	0.193
32022.970	3121.8533	13.	0.161
32021.897	3121.9578	12.	0.193
32021.260	3122.0200	12.	0.193
32020.743	3122.0704	12.	0.161
32019.408	3122.2005	12.	0.161
32018.184	3122.3199	12.	0.258
32017.654	3122.3716	12.	0.226
32017.380	3122.3983	12.	0.129
32016.007	3122.5323	13.	0.516
32015.504	3122.5813	12.	0.161
32015.233	3122.6077	12.	0.129
32014.985	3122.6319	12.	0.129

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
32014.488	3122.6804	12.	0.129	
32012.882	3122.8370	12.	0.161	
32012.583	3122.8662	12.	0.161	
32012.089	3122.9144	12.	0.193	
32011.781	3122.9444	12.	0.161	
32011.422	3122.9795	12.	0.161	
32010.969	3123.0237	12.	0.161	
32009.035	3123.2124	12.	0.161	
32008.712	3123.2440	12.	0.161	
32008.377	3123.2766	12.	0.161	
32007.878	3123.3253	12.	0.225	
32007.189	3123.3926	13.	0.161	
32006.554	3123.4545	13.	0.161	
32006.195	3123.4895	12.	0.193	
32005.872	3123.5210	12.	0.129	
32005.422	3123.5650	12.	0.161	
32004.608	3123.6444	12.	0.225	
32003.567	3123.7460	13.	0.193	
32002.805	3123.8205	12.	0.290	
32002.396	3123.8604	13.	0.193	
32001.989	3123.9001	12.	0.258	
32001.591	3123.9389	12.	0.225	
32001.223	3123.9749	12.	0.193	
32000.570	3124.0386	12.	0.290	
32000.165	3124.0782	13.	0.161	
31999.446	3124.1483	13.	0.193	
31999.065	3124.1856	13.	0.193	
31998.650	3124.2261	13.	0.290	
31998.116	3124.2782	13.	0.257	
31997.640	3124.3247	14.	0.193	
31997.152	3124.3724	12.	0.257	
31996.558	3124.4303	13.	0.161	
31996.174	3124.4678	12.	0.257	
31995.616	3124.5223	13.	0.161	
31995.282	3124.5550	12.	0.161	
31994.983	3124.5841	12.	0.129	
31994.488	3124.6325	12.	0.193	
31993.920	3124.6879	12.	0.193	
31992.984	3124.7794	12.	0.161	
31992.687	3124.8084	12.	0.161	
31992.235	3124.8526	12.	0.129	
31991.948	3124.8806	12.	0.225	
31991.411	3124.9330	13.	0.161	
31990.648	3125.0076	12.	0.257	
31990.289	3125.0426	13.	0.161	
31989.922	3125.0785	12.	0.257	
31988.783	3125.1898	12.	0.354	
31987.833	3125.2826	12.	0.225	
31985.933	3125.4683	12.	0.161	
31985.559	3125.5048	12.	0.257	
31985.182	3125.5416	12.	0.161	
31984.633	3125.5953	12.	0.161	
31983.231	3125.7323	12.	0.225	
31982.638	3125.7902	14.	0.161	
31982.371	3125.8164	13.	0.161	
31982.043	3125.8484	12.	0.161	
31981.689	3125.8830	12.	0.289	
31981.314	3125.9197	13.	0.161	
31980.899	3125.9602	13.	0.193	
31980.575	3125.9919	13.	0.129	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
31980.226	3126.0260	12.	0.289
31979.850	3126.0627	12.	0.161
31979.514	3126.0957	12.	0.193
31979.167	3126.1295	13.	0.161
31978.337	3126.2107	16.	0.386
31977.533	3126.2893	12.	0.161
31977.212	3126.3207	13.	0.129
31976.747	3126.3661	13.	0.161
31976.418	3126.3983	12.	0.161
31975.839	3126.4550	13.	0.225
31975.409	3126.4970	12.	0.161
31974.635	3126.5726	12.	0.257
31973.840	3126.6504	12.	0.353
31972.577	3126.7739	12.	0.353
31972.205	3126.8103	12.	0.128
31971.963	3126.8340	12.	0.128
31971.383	3126.8907	13.	0.161
31971.100	3126.9184	13.	0.193
31970.375	3126.9893	12.	0.161
31969.906	3127.0352	12.	0.128
31969.672	3127.0580	12.	0.128
31969.179	3127.1062	12.	0.161
31968.546	3127.1682	12.	0.128
31968.272	3127.1950	13.	0.161
31967.433	3127.2771	12.	0.225
31966.122	3127.4053	12.	0.193
31965.805	3127.4363	12.	0.128
31964.937	3127.5213	12.	0.257
31964.534	3127.5607	12.	0.161
31964.013	3127.6117	12.	0.161
31963.569	3127.6551	13.	0.128
31963.282	3127.6832	13.	0.193
31962.911	3127.7195	12.	0.225
31961.889	3127.8195	13.	0.193
31961.382	3127.8692	13.	0.353
31960.915	3127.9148	12.	0.128
31959.926	3128.0117	12.	0.128
31959.676	3128.0362	12.	0.128
31959.422	3128.0610	12.	0.160
31959.104	3128.0921	12.	0.160
31958.697	3128.1320	13.	0.193
31958.370	3128.1640	13.	0.160
31957.983	3128.2018	12.	0.257
31957.615	3128.2378	13.	0.160
31957.273	3128.2713	12.	0.193
31956.815	3128.3161	14.	0.193
31956.234	3128.3731	13.	0.225
31955.819	3128.4137	12.	0.225
31955.190	3128.4753	12.	0.289
31954.693	3128.5239	12.	0.321
31954.282	3128.5641	12.	0.160
31953.972	3128.5945	12.	0.160
31953.565	3128.6344	14.	0.192
31953.230	3128.6672	13.	0.225
31952.919	3128.6976	12.	0.128
31952.169	3128.7711	13.	0.160
31951.563	3128.8304	13.	0.257
31951.222	3128.8638	13.	0.160
31950.902	3128.8952	12.	0.160
31950.668	3128.9181	12.	0.160

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
31950.329	3128.2513	13.	0.192	
31949.792	3129.0039	12.	0.192	
31949.403	3129.0419	12.	0.128	
31948.974	3129.0839	12.	0.128	
31948.603	3129.1203	12.	0.321	
31948.256	3129.1543	12.	0.160	
31947.291	3129.2488	12.	0.289	
31946.950	3129.2822	12.	0.128	
31946.526	3129.3238	13.	0.192	
31945.712	3129.4035	12.	0.160	
31944.474	3129.5248	12.	0.224	
31944.132	3129.5583	12.	0.160	
31943.135	3129.6559	12.	0.160	
31942.728	3129.6958	12.	0.128	
31942.452	3129.7228	13.	0.160	
31942.061	3129.7612	13.	0.224	
31941.592	3129.8072	12.	0.128	
31940.843	3129.8806	13.	0.160	
31940.390	3129.9250	13.	0.417	
31939.902	3129.9728	12.	0.128	
31939.568	3130.0055	13.	0.256	
31939.019	3130.0593	12.	0.128	
31938.550	3130.1052	13.	0.160	
31938.132	3130.1462	13.	0.288	
31937.723	3130.1863	12.	0.160	
31937.417	3130.2163	12.	0.192	
31936.466	3130.3095	13.	0.352	
31936.035	3130.3518	13.	0.160	
31935.753	3130.3794	12.	0.160	
31935.373	3130.4166	12.	0.288	
31934.751	3130.4776	12.	0.224	
31934.195	3130.5322	12.	0.192	
31933.688	3130.5819	13.	0.288	
31933.249	3130.6248	12.	0.192	
31932.651	3130.6835	13.	0.609	
31932.103	3130.7373	13.	0.192	
31931.745	3130.7723	12.	0.160	
31931.448	3130.8015	12.	0.192	
31931.083	3130.8372	12.	0.256	
31930.471	3130.8973	12.	0.224	
31930.028	3130.9407	12.	0.320	
31929.543	3130.9882	13.	0.192	
31929.171	3131.0247	13.	0.160	
31928.764	3131.0647	13.	0.160	
31928.549	3131.0857	13.	0.128	
31928.185	3131.1215	13.	0.288	
31927.517	3131.1869	13.	0.192	
31927.172	3131.2208	13.	0.192	
31926.725	3131.2646	13.	0.160	
31926.063	3131.3296	12.	0.128	
31925.671	3131.3680	12.	0.320	
31924.733	3131.4600	13.	0.224	
31924.267	3131.5058	13.	0.192	
31923.831	3131.5485	13.	0.352	
31923.320	3131.5986	12.	0.224	
31923.020	3131.6280	12.	0.128	
31922.473	3131.6817	13.	0.288	
31922.105	3131.7178	12.	0.160	
31921.725	3131.7551	12.	0.128	
31920.966	3131.8296	12.	0.480	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
31920.525	3131.8729	12.	0.128
31920.066	3131.9172	12.	0.160
31919.748	3131.9491	12.	0.128
31919.514	3131.9720	12.	0.128
31919.148	3132.0079	12.	0.320
31918.537	3132.0680	12.	0.128
31918.118	3132.1090	12.	0.384
31916.846	3132.2339	12.	0.288
31916.378	3132.2798	12.	0.320
31915.136	3132.4017	12.	0.160
31914.427	3132.4713	13.	0.160
31913.626	3132.5499	12.	0.192
31912.848	3132.6263	12.	0.192
31912.460	3132.6644	13.	0.256
31912.009	3132.7087	12.	0.320
31911.440	3132.7645	12.	0.320
31911.022	3132.8055	12.	0.160
31910.248	3132.8815	12.	0.288
31909.728	3132.9326	12.	0.128
31909.284	3132.9762	12.	0.128
31908.888	3133.0151	13.	0.384
31907.993	3133.1029	12.	0.256
31906.643	3133.2355	13.	0.128
31906.271	3133.2720	12.	0.352
31905.155	3133.3817	12.	0.128
31904.915	3133.4052	12.	0.128
31904.515	3133.4446	13.	0.384
31904.058	3133.4894	12.	0.192
31903.730	3133.5216	13.	0.160
31903.361	3133.5579	13.	0.256
31902.946	3133.5986	12.	0.192
31902.655	3133.6272	12.	0.128
31902.337	3133.6585	12.	0.192
31901.917	3133.6997	12.	0.192
31901.612	3133.7297	13.	0.160
31899.880	3133.8998	12.	0.224
31899.533	3133.9339	12.	0.192
31899.079	3133.9785	12.	0.288
31898.714	3134.0144	12.	0.160
31898.435	3134.0418	13.	0.160
31897.973	3134.0871	12.	0.192
31897.472	3134.1364	12.	0.160
31896.778	3134.2046	12.	0.128
31895.772	3134.3034	12.	0.160
31895.369	3134.3431	12.	0.192
31895.114	3134.3681	12.	0.128
31894.578	3134.4208	12.	0.160
31893.902	3134.4873	12.	0.224
31893.608	3134.5162	13.	0.160
31892.826	3134.5930	12.	0.319
31891.751	3134.6987	12.	0.351
31890.841	3134.7881	12.	0.192
31890.506	3134.8210	13.	0.192
31889.646	3134.9056	12.	0.192
31888.257	3135.0422	12.	0.192
31887.808	3135.0863	12.	0.192
31887.113	3135.1547	12.	0.128
31886.818	3135.1836	12.	0.128
31886.181	3135.2463	12.	0.192
31885.794	3135.2843	13.	0.128

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
31885.559	3135.3074	12.	0.123	
31885.123	3135.3502	13.	0.255	
31884.258	3135.4353	12.	0.128	
31883.868	3135.4737	12.	0.319	
31883.138	3135.5455	12.	0.128	
31882.753	3135.5834	12.	0.128	
31882.509	3135.6074	12.	0.128	
31881.960	3135.6614	12.	0.160	
31881.693	3135.6876	12.	0.128	
31881.444	3135.7122	12.	0.128	
31881.182	3135.7379	12.	0.128	
31880.725	3135.7828	12.	0.160	
31880.223	3135.8323	12.	0.160	
31879.927	3135.8614	12.	0.128	
31879.535	3135.8999	12.	0.287	
31879.030	3135.9496	12.	0.383	
31878.256	3136.0258	12.	0.128	
31877.998	3136.0511	13.	0.128	
31877.756	3136.0749	12.	0.128	
31877.355	3136.1143	13.	0.383	
31876.439	3136.2045	12.	0.159	
31876.000	3136.2477	12.	0.159	
31875.655	3136.2817	12.	0.159	
31875.402	3136.3065	12.	0.128	
31875.127	3136.3336	12.	0.159	
31874.691	3136.3764	12.	0.159	
31874.259	3136.4190	12.	0.478	
31873.289	3136.5145	13.	0.191	
31872.374	3136.6045	12.	0.159	
31871.781	3136.6628	12.	0.191	
31871.143	3136.7257	12.	0.128	
31870.371	3136.8016	12.	0.128	
31870.046	3136.8336	12.	0.191	
31869.191	3136.9178	12.	0.287	
31868.756	3136.9606	12.	0.159	
31868.436	3136.9872	12.	0.159	
31867.467	3137.0875	12.	0.191	
31866.432	3137.1894	13.	0.319	
31866.017	3137.2302	12.	0.127	
31865.245	3137.3062	13.	0.191	
31864.766	3137.3534	12.	0.127	
31864.308	3137.3985	12.	0.159	
31863.941	3137.4346	12.	0.191	
31863.602	3137.4680	12.	0.191	
31863.186	3137.5089	13.	0.287	
31862.794	3137.5476	13.	0.159	
31861.820	3137.6435	12.	0.127	
31861.419	3137.6830	12.	0.414	
31860.878	3137.7363	12.	0.159	
31860.579	3137.7658	12.	0.159	
31859.377	3137.8841	12.	0.159	
31858.920	3137.9291	12.	0.159	
31858.375	3137.9828	12.	0.223	
31857.419	3138.0770	12.	0.159	
31857.100	3138.1084	12.	0.159	
31856.202	3138.1968	12.	0.159	
31855.712	3138.2451	12.	0.191	
31855.122	3138.3033	14.	0.191	
31854.838	3138.3313	13.	0.127	
31854.564	3138.3582	12.	0.159	

(v', v'', Branch J)

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT
				(ν' , ν'' , Branch J)
31011.672	3223.6614	27.	0.971	
31010.234	3223.8109	28.	0.555	
31008.750	3223.9653	26.	1.248	
31006.823	3224.1656	25.	1.247	
31004.048	3224.4542	24.	0.693	
31002.592	3224.6056	24.	0.831	
31000.562	3224.8168	51.	0.693	
30998.288	3225.0534	21.	0.693	
30997.171	3225.1696	19.	0.554	
30995.815	3225.3107	18.	0.692	
30994.168	3225.4821	18.	1.523	
30991.195	3225.7916	106.	0.831	
30989.329	3225.9857	16.	0.831	
30987.614	3226.1643	15.	0.969	
30986.368	3226.2940	15.	0.692	
30984.990	3226.4376	15.	0.692	
30983.215	3226.6223	15.	0.553	
30981.280	3226.8239	16.	0.692	
30980.050	3226.9520	14.	0.553	
30978.622	3227.1008	14.	1.106	
30976.687	3227.3024	13.	1.106	
30974.806	3227.4984	13.	1.521	
30971.976	3227.7933	23.	0.691	
30968.748	3228.1298	16.	1.244	
30967.080	3228.3036	12.	0.553	
30966.083	3228.4075	12.	0.553	
30965.076	3228.5126	12.	0.829	
30963.300	3228.6978	12.	0.553	
30962.031	3228.8301	13.	0.967	
30960.496	3228.9901	12.	0.967	
30957.976	3229.2530	12.	0.691	
30954.900	3229.5739	48.	0.828	
30950.132	3230.0715	159.	0.966	
30946.864	3230.4126	14.	0.590	
30943.714	3230.7415	13.	0.690	
30941.549	3230.9675	13.	0.552	
30939.719	3231.1587	12.	0.690	
30937.675	3231.3721	13.	0.552	
30936.545	3231.4902	13.	0.689	
30935.038	3231.6476	13.	0.551	
30932.582	3231.9042	14.	0.551	
30931.442	3232.0233	18.	0.827	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
30928.127	3232.3697	87.	0.827
30925.099	3232.6862	2413.	3.444
30919.197	3233.3033	17.	0.689
30917.372	3233.4942	14.	0.826
30915.166	3233.7250	13.	0.688
30912.947	3233.9570	15.	0.826
30910.232	3234.2412	13.	0.963
30908.954	3234.3748	12.	0.550
30906.723	3234.6083	16.	0.825
30904.338	3234.8579	12.	1.100
30901.796	3235.1241	13.	0.963
30900.586	3235.2508	12.	0.550
30897.508	3235.5731	12.	1.237
30895.902	3235.7413	12.	0.550
30891.317	3236.2216	28.	0.687
30888.572	3236.5092	12.	1.649
30885.707	3236.8094	14.	0.824
30883.828	3237.0063	12.	0.824
30881.638	3237.2359	12.	1.236
30879.329	3237.4780	13.	0.824
30877.461	3237.6738	12.	0.824
30872.969	3238.1450	13.	0.686
30869.062	3238.5547	13.	0.686
30862.420	3239.2517	12.	1.371
30860.678	3239.4347	23.	0.686
30858.903	3239.6210	12.	0.685
30857.200	3239.7998	12.	1.097
30855.439	3239.9847	12.	0.548
30852.917	3240.2495	12.	0.548
30848.425	3240.7214	12.	0.685
30846.314	3240.9432	13.	0.685
30842.851	3241.3071	13.	0.822
30839.766	3241.6314	12.	0.684
30837.899	3241.8276	13.	1.232
30835.980	3242.0294	12.	0.547
30834.789	3242.1545	12.	0.821
30828.779	3242.7866	12.	0.821
30821.926	3243.5077	12.	0.820
30820.233	3243.6858	13.	0.547
30819.008	3243.8148	13.	0.820
30816.406	3244.0887	32.	0.683
30815.457	3244.1886	24.	0.547
30813.571	3244.3871	12.	1.230
30811.831	3244.5704	12.	0.683
30810.655	3244.6943	12.	0.546
30806.643	3245.1168	13.	0.819
30805.661	3245.2202	12.	0.546
30798.250	3245.0012	14.	0.682
30796.403	3246.1958	12.	0.682
30795.143	3246.3287	12.	0.819
30793.815	3246.4687	13.	0.682
30790.991	3246.7665	12.	0.682
30789.638	3246.9039	12.	0.818
30783.373	3247.5700	111.	1.363
30779.013	3248.0300	13.	1.090
30777.307	3248.2101	13.	0.681
30776.025	3248.3454	13.	0.681
30774.092	3248.5494	14.	1.090
30770.800	3248.8970	13.	0.817
30768.643	3249.1248	13.	0.817

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
30766.554	3249.3443	13.	1.562	
30762.300	3249.7947	14.	1.497	
30760.002	3250.0376	13.	1.361	
30757.060	3250.3484	16.	0.580	
30755.679	3250.4943	12.	0.580	
30754.328	3250.6371	12.	0.680	
30739.949	3252.1577	12.	1.087	
30737.610	3252.4052	13.	0.679	
30736.067	3252.5684	13.	0.579	
30733.382	3252.8526	12.	0.679	
30731.801	3253.0200	13.	1.085	
30728.761	3253.3418	13.	1.222	
30727.419	3253.4840	13.	0.543	
30722.187	3254.0381	12.	0.679	
30720.703	3254.1953	12.	0.950	
30719.114	3254.3636	14.	0.673	
30717.207	3254.5656	12.	0.814	
30715.984	3254.6952	12.	0.543	
30712.867	3255.0255	12.	0.542	
30711.904	3255.1276	13.	0.542	
30710.870	3255.2372	12.	0.542	
30709.358	3255.3975	13.	1.085	
30707.437	3255.6011	13.	0.542	
30706.337	3255.7178	13.	0.542	
30705.054	3255.8538	12.	0.675	
30703.535	3256.0149	13.	0.949	
30702.039	3256.1736	13.	0.813	
30700.127	3256.3764	12.	0.577	
30698.059	3256.5957	14.	0.813	
30695.920	3256.8227	13.	1.896	
30692.981	3257.1345	13.	1.489	
30691.054	3257.3390	12.	0.577	
30686.965	3257.7731	12.	1.489	
30685.111	3257.9699	13.	0.577	
30683.523	3258.1385	12.	0.541	
30681.989	3258.3014	13.	1.082	
30680.442	3258.4657	13.	0.812	
30678.801	3258.6400	12.	0.812	
30676.215	3258.9148	12.	1.082	
30673.127	3259.2429	12.	0.541	
30671.552	3259.4103	15.	1.217	17,OR7
30668.378	3259.7476	13.	0.811	17,OP6
30666.976	3259.8966	13.	0.811	
30663.708	3260.2440	12.	0.576	
30662.693	3260.3520	12.	0.540	
30661.706	3260.4569	13.	0.540	
30657.237	3260.8684	13.	1.215	
30652.963	3261.3869	12.	0.540	
30651.501	3261.5425	12.	1.215	
30646.727	3262.0506	13.	0.575	
30644.964	3262.2383	13.	0.540	
30643.417	3262.4029	14.	0.944	
30641.504	3262.6066	12.	1.214	
30639.203	3262.8517	13.	0.944	
30637.734	3263.0081	12.	0.539	
30636.383	3263.1520	13.	0.674	
30635.112	3263.2874	13.	0.809	
30632.581	3263.5463	13.	1.213	
30630.995	3263.7260	12.	0.539	
30629.333	3263.9031	16.	1.213	17,OR8

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(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
30627.470	3264.1017	14.	0.805
30625.312	3264.3317	13.	0.674
30623.667	3264.5070	13.	0.943
30621.082	3264.7826	12.	0.673
30619.704	3264.9296	13.	0.539
30618.570	3265.0505	14.	0.673
30617.411	3265.1741	12.	0.539
30616.258	3265.2971	12.	0.673
30614.634	3265.4703	13.	0.942
30613.243	3265.6187	16.	0.673
30611.980	3265.7534	12.	0.538
30610.342	3265.9282	12.	0.942
30608.902	3266.0818	12.	0.807
30601.377	3266.8849	12.	0.538
30600.068	3267.0247	12.	1.076
30596.855	3267.3678	12.	0.672
30595.575	3267.5045	13.	0.538
30590.892	3268.0047	13.	0.672
30589.438	3268.1601	13.	0.940
30588.015	3268.3121	13.	0.537
30585.235	3268.6092	13.	0.537
30582.957	3268.8527	15.	0.671
30580.652	3269.0991	14.	0.671
30579.443	3269.2283	13.	0.537
30577.637	3269.4214	15.	0.940
30575.757	3269.6225	12.	0.537
30574.483	3269.7586	12.	0.939
30573.318	3269.8833	12.	0.537
30571.074	3270.1233	13.	0.805
30569.307	3270.3124	12.	0.939
30565.077	3270.7649	13.	1.609
30562.895	3270.9985	16.	0.670
30560.490	3271.2559	13.	0.536
30558.872	3271.4290	14.	0.804
30557.432	3271.5833	13.	0.670
30554.560	3271.8908	15.	0.804
30553.052	3272.0523	13.	1.206
30550.368	3272.3397	14.	0.938
30549.190	3272.4660	13.	0.536
30547.814	3272.6134	12.	0.670
30545.676	3272.8424	12.	0.803
30544.190	3273.0017	13.	0.937
30542.127	3273.2227	12.	0.536
30540.505	3273.3966	13.	1.339
30538.832	3273.5760	13.	0.669
30534.970	3273.9900	68.	1.204
30532.206	3274.2863	13.	0.535
30530.567	3274.4622	14.	0.803
30528.643	3274.6685	12.	0.802
30526.931	3274.8522	13.	1.070
30525.086	3275.0501	15.	0.802
30522.119	3275.3685	12.	0.668
30520.699	3275.5209	13.	0.535
30518.650	3275.7408	13.	0.802
30516.662	3275.9542	13.	0.668
30515.113	3276.1206	13.	0.935
30512.602	3276.3901	12.	0.668
30511.114	3276.5499	13.	0.935
30509.570	3276.7157	12.	0.534
30507.995	3276.8849	14.	1.335

17,OP7

17,OR9

17,OP8

17,OR10

17,OP9

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
30505.975	3277.1019	13.	0.501
30502.575	3277.4672	13.	1.201
30500.244	3277.7177	13.	0.801
30499.166	3277.8335	13.	0.534
30496.948	3278.0720	13.	0.934
30495.162	3278.2640	12.	1.201
30493.439	3278.4492	12.	0.534
30491.281	3278.6812	13.	0.667
30489.996	3278.8195	12.	0.533
30488.924	3278.9347	13.	0.567
30486.732	3279.1705	13.	0.800
30484.592	3279.4007	13.	0.933
30481.116	3279.7747	12.	0.800
30478.252	3280.0828	12.	1.066
30476.575	3280.2634	13.	0.566
30474.647	3280.4709	13.	1.066
30472.435	3280.7090	48.	0.932
30469.420	3281.0337	14.	1.065
30467.329	3281.2589	14.	1.731
30464.855	3281.5253	13.	1.464
30461.594	3281.8766	13.	1.331
30459.156	3282.1393	12.	1.064
30454.575	3282.6330	12.	0.565
30453.027	3282.8000	12.	1.330
30451.457	3282.9692	12.	0.532
30449.994	3283.1269	13.	1.064
30447.536	3283.3919	14.	0.565
30445.114	3283.6532	12.	0.797
30443.185	3283.8613	14.	0.797
30439.785	3284.2281	13.	0.531
30438.771	3284.3375	14.	0.564
30437.328	3284.4932	13.	0.564
30434.922	3284.7529	12.	0.564
30433.832	3284.8705	12.	0.531
30432.608	3285.0026	13.	0.531
30431.145	3285.1605	13.	0.797
30429.830	3285.3026	12.	0.531
30428.631	3285.4320	12.	0.796
30427.396	3285.5653	12.	0.564
30426.283	3285.6855	13.	0.531
30424.952	3285.8293	13.	1.194
30423.539	3285.9819	12.	0.531
30421.457	3286.2068	13.	0.795
30419.410	3286.4279	13.	1.724
30416.326	3286.7612	29.	0.563
30413.241	3287.0946	15.	0.795
30411.351	3287.2989	13.	1.060
30409.536	3287.4951	15.	1.193
30407.224	3287.7450	12.	0.795
30405.593	3287.9214	12.	0.795
30403.384	3288.1603	17.	0.927
30401.725	3288.3397	12.	0.530
30400.602	3288.4612	13.	0.562
30398.090	3288.7329	13.	0.795
30396.895	3288.8623	13.	0.562
30394.426	3289.1294	12.	0.794
30392.795	3289.3059	12.	0.562
30391.210	3289.4775	13.	0.926
30389.696	3289.6414	14.	0.794
30388.165	3289.8071	13.	0.926

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17,OR11

17,OP10;16,OR4

16,OR5

16,OR6

17,OR12;16,OP5

17,OP11

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
30384.294	3290.2262	12.	0.561
30383.036	3290.3625	14.	0.561
30379.944	3290.6975	13.	0.561
30377.588	3290.9526	14.	0.561
30372.620	3291.4909	13.	0.793
30367.709	3292.0233	12.	0.528
30364.695	3292.3500	13.	0.528
30363.350	3292.4958	14.	0.560
30361.116	3292.7382	13.	0.792
30359.520	3292.9112	12.	1.056
30358.250	3293.0490	13.	0.528
30357.160	3293.1673	13.	0.528
30354.904	3293.4121	12.	0.528
30352.988	3293.6199	12.	0.792
30351.456	3293.7861	14.	0.560
30349.531	3293.9951	12.	0.528
30348.305	3294.1282	14.	0.923
30344.164	3294.5778	12.	0.659
30341.149	3294.9051	16.	0.659
30339.343	3295.1013	13.	0.659
30336.539	3295.4059	15.	0.923
30334.344	3295.6444	14.	0.659
30333.005	3295.7898	13.	0.659
30331.052	3296.0020	14.	0.791
30329.587	3296.1613	13.	0.659
30328.356	3296.2951	14.	0.790
30326.430	3296.5044	12.	0.659
30325.044	3296.6551	13.	0.790
30323.557	3296.8167	12.	1.053
30321.259	3297.0666	12.	0.658
30319.972	3297.2066	13.	0.658
30315.098	3297.7367	27.	0.658
30313.473	3297.9135	13.	0.658
30309.891	3298.3032	12.	0.789
30306.584	3298.6631	12.	0.658
30305.190	3298.8149	12.	0.789
30303.734	3298.9734	12.	0.789
30299.468	3299.4378	14.	0.789
30297.491	3299.6532	15.	1.183
30293.950	3300.0389	15.	0.920
30290.216	3300.4457	15.	1.051
30285.222	3300.9899	13.	0.788
30283.535	3301.1412	16.	0.788
30280.576	3301.4965	13.	1.181
30276.557	3301.9347	13.	0.787
30273.538	3302.2640	14.	0.656
30272.261	3302.4033	13.	0.787
30270.135	3302.6352	12.	0.656
30268.863	3302.7741	12.	0.525
30267.268	3302.9481	14.	0.787
30260.146	3303.7255	14.	0.917
30258.678	3303.8858	13.	0.524
30257.622	3304.0011	12.	0.524
30256.111	3304.1661	14.	0.655
30254.638	3304.3270	12.	0.524
30253.553	3304.4455	13.	0.786
30251.808	3304.6361	13.	1.179
30249.853	3304.8497	13.	0.917
30248.130	3305.0379	13.	0.916
30246.542	3305.2115	13.	0.916

16,OR7

16,OP6

17,OR13

16,OR8

17,OP12

16,OP7

16,OR9

16,OP8

17,OR24

17,OP13

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
30245.146	3305.3641	13.	0.554	
30244.168	3305.4710	13.	0.524	
30242.749	3305.6261	15.	0.916	
30239.550	3305.9758	25.	0.554	
30238.074	3306.1371	22.	0.916	16,OR10
30236.001	3306.3639	25.	0.554	
30233.632	3306.6229	13.	0.523	
30232.568	3306.7392	14.	0.523	
30231.293	3306.8787	23.	0.554	16,OP9
30229.013	3307.1282	13.	0.523	
30227.873	3307.2529	14.	0.554	
30225.186	3307.5469	13.	0.553	
30224.094	3307.6664	13.	0.553	
30222.769	3307.8114	12.	0.523	
30221.450	3307.9558	12.	1.045	
30218.611	3308.2666	13.	1.176	
30215.447	3308.6130	13.	0.784	
30213.824	3308.7908	12.	0.653	
30212.844	3308.8981	12.	0.522	
30211.440	3309.0518	12.	0.522	
30209.354	3309.2804	13.	0.783	
30207.509	3309.4824	13.	0.653	
30206.462	3309.5972	12.	0.522	
30205.122	3309.7441	27.	0.652	
30203.825	3309.8861	21.	0.652	
30202.021	3310.0839	12.	1.044	
30200.524	3310.2480	13.	0.652	
30199.242	3310.3885	15.	0.652	
30197.317	3310.5995	13.	0.782	
30191.172	3311.2734	13.	0.521	
30190.153	3311.3852	14.	0.652	15,OR3
30188.173	3311.6024	15.	0.782	17,OR15
30185.043	3311.9457	12.	1.042	
30182.502	3312.2246	13.	0.912	
30180.854	3312.4055	25.	0.781	16,OP14;16,OR11
30179.279	3312.5783	13.	0.521	
30176.954	3312.8336	13.	1.302	
30173.571	3313.2050	14.	0.781	16,OP10
30171.309	3313.4534	14.	0.911	15,OR4
30168.158	3313.7995	14.	0.781	
30166.784	3313.9505	14.	0.651	
30165.019	3314.1444	13.	0.781	
30162.914	3314.3756	15.	1.301	
30160.648	3314.6247	12.	0.520	
30159.510	3314.7497	14.	0.650	
30157.362	3314.9858	13.	0.910	
30154.936	3315.2526	12.	0.650	
30150.861	3315.7006	14.	1.040	
30149.471	3315.8535	13.	0.520	
30148.501	3315.9602	13.	0.650	
30147.037	3316.1213	15.	0.779	15,OR5
30144.782	3316.3693	12.	1.039	
30142.824	3316.5847	14.	0.909	15,OP4
30141.424	3316.7388	12.	0.519	
30139.653	3316.9336	12.	1.039	
30137.727	3317.1456	13.	1.588	
30135.244	3317.4190	12.	0.649	
30134.001	3317.5558	12.	0.649	
30127.881	3318.2298	12.	0.649	
30126.691	3318.3609	12.	0.519	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
30125.335	3318.5047	12.	0.773	
30120.651	3319.0262	15.	0.778	
30118.339	3319.2756	23.	0.648	16,OR12
30116.708	3319.4609	16.	1.555	15,OR6
30114.217	3319.7354	29.	1.166	
30112.361	3319.9401	14.	0.777	15,OP5
30110.461	3320.1495	21.	0.907	16,OP11
30107.028	3320.5282	13.	0.907	
30103.753	3320.8293	24.	0.905	17,OR16
30099.833	3321.3218	13.	1.294	
30097.606	3321.5676	14.	0.906	
30096.193	3321.7236	15.	0.647	17,OP15
30094.188	3321.9449	13.	0.647	
30093.241	3322.0494	12.	0.517	
30089.874	3322.4212	14.	0.776	
30086.136	3322.8340	14.	0.776	
30081.983	3323.2927	16.	0.905	15,OR7
30077.835	3323.7510	31.	1.034	
30076.114	3323.9413	15.	0.775	15,OP6
30073.043	3324.2808	12.	0.517	
30072.016	3324.3942	12.	0.517	
30069.452	3324.6778	14.	1.291	
30064.432	3325.2329	14.	0.775	
30063.109	3325.3792	12.	0.645	
30050.355	3326.7906	17.	0.903	16,OR13
30048.525	3326.9933	14.	0.774	
30046.989	3327.1633	17.	0.773	
30045.726	3327.3032	13.	0.644	
30041.570	3327.7635	21.	1.546	16,OP12;15,OR8
30037.154	3328.2528	12.	1.159	
30034.783	3328.5155	16.	0.902	15,OP7
30028.927	3329.1647	15.	0.644	
30027.291	3329.3460	13.	0.772	
30015.806	3330.6200	14.	0.643	
30014.577	3330.7564	16.	0.772	17,OR17
30012.524	3330.9842	14.	0.643	
30011.327	3331.1170	14.	0.771	
30008.548	3331.4256	13.	0.514	
30007.468	3331.5455	16.	0.514	
30006.223	3331.6837	14.	1.028	17,OP16
29998.198	3332.5750	14.	0.642	
29995.155	3332.9132	17.	0.770	15,OR9
29992.432	3333.2158	13.	0.642	
29990.974	3333.3778	12.	0.770	
29988.054	3333.7023	16.	0.770	15,OP8
29984.559	3334.0909	13.	0.770	
29980.824	3334.5064	12.	1.411	
29977.587	3334.8664	23.	1.282	16,OR14
29974.080	3335.2566	12.	1.410	
29969.709	3335.7431	12.	0.641	
29968.347	3335.8946	16.	0.897	16,OP13
29965.584	3336.2022	13.	0.769	
29961.663	3336.6389	13.	0.768	
29954.760	3337.4078	15.	0.768	
29950.723	3337.8577	14.	1.408	
29945.027	3338.4926	14.	0.639	
29943.704	3338.6401	20.	0.767	15,OR10
29942.247	3338.8025	12.	0.639	
29940.384	3339.0104	13.	1.279	
29938.824	3339.1843	12.	0.511	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
29937.609	3339.5198	13.	0.767	15,OP9
29935.810	3339.5206	16.	0.767	
29931.423	3340.0100	12.	0.767	
29927.534	3340.4441	15.	1.022	17,OR18
29925.349	3340.6280	12.	1.022	
29923.835	3340.8570	13.	0.766	
29919.942	3341.2917	21.	0.894	17,OP17
29917.398	3341.5759	12.	0.638	
29915.465	3341.7917	18.	0.766	
29913.156	3342.0497	13.	0.638	14,OR2
29911.827	3342.1982	14.	0.638	
29905.391	3342.9176	14.	0.893	
29898.734	3343.6618	17.	0.892	16,OR15
29896.578	3343.9030	13.	0.765	
29895.222	3344.0547	13.	0.764	
29892.111	3344.4027	22.	0.764	14,OR3
29890.775	3344.5522	12.	0.509	
29889.319	3344.7151	22.	0.391	
29886.856	3344.9907	22.	0.764	15,OR11
29882.890	3345.4347	24.	0.764	
29881.939	3345.5412	16.	0.636	
29879.485	3345.8160	22.	0.764	15,OP10
29878.298	3345.9489	17.	0.509	
29877.214	3346.0703	15.	0.636	
29875.716	3346.2381	13.	0.509	14,OR4
29874.592	3346.3639	14.	0.636	
29873.463	3346.4904	16.	0.636	
29869.740	3346.9076	14.	0.763	14,OP3
29864.207	3347.5277	13.	0.636	
29860.204	3347.9765	12.	1.398	
29858.267	3348.1937	12.	1.143	14,OR5
29849.434	3349.1845	21.	0.762	
29846.521	3349.5113	13.	0.762	
29844.881	3349.6955	17.	0.888	14,OP4
29843.046	3349.9014	12.	0.634	
29840.498	3350.1875	12.	0.507	
29838.898	3350.3671	15.	0.634	
29835.076	3350.7963	14.	0.507	
29833.921	3350.9260	21.	0.761	
29832.229	3351.1161	14.	0.387	
29831.161	3351.2361	12.	0.507	
29828.328	3351.5544	15.	0.760	
29826.111	3351.8036	12.	0.507	15,OR12
29824.776	3351.9535	25.	0.387	
29822.115	3352.2527	13.	0.636	
29820.152	3352.4734	23.	1.140	17,OR19
29818.058	3352.7087	13.	0.507	
29816.784	3352.8521	13.	0.760	
29815.401	3353.0075	28.	0.760	16,OR16;15,OP11
29814.166	3353.1465	16.	0.633	
29812.158	3353.3723	16.	0.633	
29810.492	3353.5598	24.	0.759	14,OP5
29806.822	3353.9727	13.	0.633	
29805.550	3354.1158	17.	0.633	
29804.407	3354.2444	16.	0.633	17,OP18
29800.905	3354.6386	15.	0.885	
29799.421	3354.8057	14.	0.885	
29797.443	3355.0284	15.	1.012	16,OP15
29794.716	3355.3354	12.	0.385	
29792.872	3355.5431	12.	1.770	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
29789.422	3355.9318	13.	0.885	14,OR7
29787.835	3356.1106	13.	1.011	
29784.888	3356.4427	23.	0.758	
29783.035	3356.6515	16.	0.632	14,OP6
29781.321	3356.8379	13.	0.758	
29778.413	3357.1725	21.	0.631	
29776.915	3357.3414	16.	0.631	
29775.276	3357.5262	12.	0.884	
29772.333	3357.8582	16.	1.010	15,OR13
29770.418	3358.0741	13.	0.631	
29769.055	3358.2279	12.	0.631	
29766.829	3358.4790	15.	0.757	
29764.701	3358.7191	13.	0.631	
29762.178	3359.0038	12.	1.261	15,OP12
29760.359	3359.2092	13.	0.630	
29758.935	3359.3699	12.	0.756	
29757.408	3359.5423	24.	0.756	14,OR8
29755.884	3359.7144	13.	0.882	
29754.603	3359.8591	13.	0.630	
29752.112	3360.1403	13.	0.882	14,OP7
29747.816	3360.6256	22.	1.260	
29744.582	3360.9910	27.	0.381	
29742.692	3361.2045	12.	1.007	16,OR17
29741.186	3361.3748	14.	0.755	
29738.558	3361.6718	13.	0.503	
29737.152	3361.8308	22.	0.755	17,OR20
29734.780	3362.0990	14.	1.762	
29732.700	3362.3342	22.	0.881	
29731.324	3362.4898	12.	0.503	16,OP16
29729.354	3362.7127	13.	1.132	
29726.609	3363.0232	35.	0.880	
29723.874	3363.3326	14.	0.880	17,OP19
29722.174	3363.5250	13.	0.503	
29720.177	3363.7510	16.	0.754	
29718.089	3363.9874	12.	0.503	14,OR9
29716.268	3364.1935	27.	1.382	
29714.575	3364.3852	14.	0.503	
29713.495	3364.5075	14.	0.628	14,OP8
29711.695	3364.7114	12.	0.754	
29710.127	3364.8839	12.	0.628	
29707.443	3365.1930	16.	0.879	15,OR14
29704.707	3365.5028	14.	0.879	
29703.215	3365.6720	13.	0.753	
29700.613	3365.9668	17.	0.753	15,OP13
29698.808	3366.1714	28.	0.878	
29696.289	3366.4570	13.	0.753	
29694.573	3366.6515	13.	0.878	15,OR13
29692.801	3366.8525	16.	0.752	
29690.679	3367.0931	24.	0.627	
29689.459	3367.2314	32.	0.752	15,OP13
29686.463	3367.5712	13.	1.003	
29684.791	3367.7609	25.	0.877	
29683.298	3367.9304	12.	0.501	15,OP13
29682.109	3368.0653	13.	0.627	
29679.829	3368.3240	13.	0.501	
29678.356	3368.4912	13.	1.253	15,OP13
29676.558	3368.6952	13.	1.378	
29674.306	3368.9509	24.	0.877	
29671.872	3369.2273	12.	0.501	15,OP13
29670.503	3369.3828	14.	0.876	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
29668.953	3369.5588	26.	0.751	
29666.740	3369.8101	36.	0.626	
29665.653	3369.9336	57.	0.876	
29663.488	3370.1796	17.	0.876	
29661.552	3370.3995	12.	1.001	
29658.090	3370.7930	34.	0.625	
29656.382	3370.9872	13.	1.251	
29654.488	3371.2024	13.	0.875	
29652.235	3371.4586	15.	0.875	
29650.031	3371.7092	15.	0.500	
29649.192	3371.8046	16.	0.500	
29647.696	3371.9748	28.	0.750	14,OR10
29645.950	3372.1734	17.	0.750	
29643.576	3372.4434	21.	0.750	
29642.321	3372.5862	15.	0.625	
29640.173	3372.8307	12.	0.624	
29638.700	3372.9983	25.	0.874	14,OP9
29636.213	3373.2814	12.	0.624	
29635.336	3373.3812	12.	0.499	
29634.006	3373.5326	14.	0.499	
29632.746	3373.6761	24.	0.874	16,OR18
29630.763	3373.9018	14.	0.749	
29629.033	3374.0988	17.	0.749	
29626.647	3374.3706	13.	0.749	
29625.562	3374.4942	12.	0.499	
29623.753	3374.7003	16.	0.624	
29622.384	3374.8562	21.	0.624	16,OP17
29619.982	3375.1299	12.	0.748	
29618.392	3375.3111	14.	0.748	
29616.643	3375.5104	15.	1.247	
29615.269	3375.6671	13.	0.499	
29614.074	3375.8032	14.	0.748	13,OR1
29611.934	3376.0473	13.	0.748	
29610.492	3376.2116	12.	0.748	
29608.924	3376.3904	12.	0.498	17,OR21
29606.708	3376.6432	31.	1.246	15,OR15;13,OR2
29604.279	3376.9202	16.	0.747	
29602.155	3377.1626	16.	0.747	
29600.390	3377.3639	13.	0.623	
29598.249	3377.6082	22.	1.494	17,OP20
29595.917	3377.8743	24.	0.747	15,OP14
29592.919	3378.2166	57.	1.369	
29591.207	3378.4120	34.	0.747	14,OR11
29589.022	3378.6615	17.	0.746	
29586.533	3378.9457	13.	0.498	
29585.607	3379.0515	14.	0.746	
29584.301	3379.2007	12.	0.497	
29582.961	3379.3537	17.	0.746	
29581.478	3379.5231	26.	0.746	14,OP10
29579.612	3379.7363	13.	0.746	
29577.418	3379.9871	14.	0.746	
29576.201	3380.1262	16.	0.621	
29574.868	3380.2785	23.	0.870	13,OR4
29572.016	3380.6046	12.	0.497	
29570.631	3380.7629	16.	0.870	13,OP3
29568.945	3380.9556	13.	0.621	
29567.739	3381.0935	13.	0.869	
29566.492	3381.2361	12.	0.497	
29565.520	3381.3473	12.	0.497	
29564.299	3381.4870	13.	0.745	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
29562.038	3381.7456	17.	0.745
29560.347	3381.9391	13.	0.869
29558.770	3382.1195	13.	0.869
29555.565	3382.4863	16.	0.620
29553.234	3382.7531	14.	0.620
29551.877	3382.9084	30.	0.620
29550.813	3383.0303	25.	0.620
29549.065	3383.2303	13.	1.116
29547.494	3383.4103	12.	0.744
29545.738	3383.6114	21.	0.868
29543.930	3383.8184	17.	0.744
29542.373	3383.9967	23.	0.620
29540.404	3384.2223	13.	1.115
29538.625	3384.4262	22.	0.867
29537.151	3384.5951	17.	0.619
29536.163	3384.7083	13.	0.496
29534.117	3384.9428	28.	0.991
29529.613	3385.4590	34.	0.867
29526.992	3385.7596	21.	0.990
29523.740	3386.1325	28.	1.361
29521.680	3386.3688	30.	0.866
29518.926	3386.6848	32.	0.990
29517.544	3386.8434	13.	0.495
29515.407	3387.0885	23.	0.618
29514.246	3387.2218	13.	0.495
29512.499	3387.4224	26.	0.742
29509.934	3387.7168	13.	0.865
29508.362	3387.8972	13.	1.113
29506.468	3388.1147	14.	0.618
29505.029	3388.2800	14.	0.618
29503.684	3388.4344	43.	0.741
29502.333	3388.5896	13.	0.613
29501.021	3388.7403	15.	0.494
29499.131	3388.9574	15.	0.618
29497.225	3389.1764	15.	0.865
29495.406	3389.3854	15.	0.494
29493.370	3389.6194	25.	0.617
29492.000	3389.7769	25.	0.741
29489.957	3390.0118	14.	0.988
29488.397	3390.1911	17.	1.111
29486.871	3390.3666	38.	0.740
29485.866	3390.4821	23.	0.494
29483.566	3390.7466	23.	0.617
29479.674	3391.1943	30.	0.740
29477.339	3391.4629	15.	0.740
29475.480	3391.6768	21.	0.740
29474.084	3391.8375	21.	1.110
29471.761	3392.1049	23.	0.616
29469.890	3392.3202	18.	0.493
29468.938	3392.4297	24.	0.616
29466.962	3392.6573	38.	0.739
29465.498	3392.8259	52.	0.986
29463.821	3393.0189	12.	0.493

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
29451.554	3394.4323	22.	0.843	14,OP12
29449.937	3394.6187	16.	0.723	
29448.821	3394.7473	13.	0.482	
29446.844	3394.9751	29.	0.843	13,OR8
29444.394	3395.2577	13.	1.325	
29441.688	3395.5698	20.	0.722	
29440.455	3395.7120	15.	0.722	13,OP7
29438.811	3395.9016	30.	0.602	
29437.703	3396.0294	30.	0.602	
29436.171	3396.2062	35.	0.722	15,OR17
29434.760	3396.3689	15.	0.602	
29433.445	3396.5207	21.	0.602	
29432.080	3396.6782	17.	0.601	16,OR20
29430.107	3396.9059	32.	1.443	
29427.101	3397.2530	15.	0.342	
29425.860	3397.3963	13.	0.481	15,OP16
29424.131	3397.5959	29.	0.721	
29422.395	3397.7964	21.	0.721	
29420.917	3397.9670	12.	0.481	16,OP19
29419.665	3398.1117	22.	0.721	
29418.622	3398.2322	15.	0.601	
29417.461	3398.3663	12.	0.481	
29415.874	3398.5497	14.	0.961	
29413.512	3398.8225	13.	0.480	
29412.570	3398.9314	14.	0.601	
29410.846	3399.1306	13.	0.600	
29409.073	3399.3356	24.	0.720	
29404.042	3399.9172	13.	0.840	13,OR9
29401.512	3400.2098	34.	0.340	
29399.880	3400.3986	13.	0.480	
29398.785	3400.5252	17.	0.480	
29397.614	3400.6607	15.	0.600	
29395.516	3400.9034	15.	0.480	
29394.288	3401.0455	24.	0.720	13,OP8 14,OR14
29392.502	3401.2522	31.	0.839	
29390.808	3401.4482	40.	0.719	
29389.484	3401.6015	14.	0.480	
29387.776	3401.7992	14.	1.678	
29386.292	3401.9709	13.	0.479	
29384.941	3402.1274	15.	0.719	
29383.051	3402.3462	14.	0.479	
29381.579	3402.5166	13.	0.719	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
29380.526	3402.6386	12.	0.479
29378.204	3402.8380	29.	0.719
29377.039	3403.0425	22.	0.838
29375.672	3403.2009	14.	0.599
29374.503	3403.3363	13.	0.599
29373.126	3403.4958	21.	0.718
29371.304	3403.7069	17.	0.718
29369.803	3403.8809	21.	0.718
29368.090	3404.0795	27.	0.838
29365.816	3404.3431	23.	0.598
29364.556	3404.4891	29.	0.718
29363.182	3404.6485	14.	0.479
29361.678	3404.8230	24.	0.718
29359.229	3405.1069	23.	0.718
29356.202	3405.4580	12.	0.717
29354.720	3405.6299	12.	0.598
29353.055	3405.8232	12.	0.717
29350.768	3406.0885	35.	0.717
29349.091	3406.2831	13.	0.478
29348.083	3406.4002	12.	0.597
29346.430	3406.5921	14.	1.434
29344.598	3406.8048	15.	0.597
29343.217	3406.9651	35.	0.836
29340.833	3407.2419	36.	0.836
29338.954	3407.4602	34.	0.955
29337.176	3407.6667	13.	0.836
29335.516	3407.8594	23.	0.836
29333.658	3408.0754	12.	0.477
29332.252	3408.2353	12.	0.597
29330.738	3408.4147	30.	0.835
29329.291	3408.5828	18.	0.716
29326.901	3408.8606	12.	0.954
29324.305	3409.1624	13.	0.596
29323.075	3409.3054	15.	0.477
29321.868	3409.4458	25.	0.715
29319.791	3409.6872	21.	0.715
29316.913	3410.0220	22.	0.715
29315.013	3410.2430	20.	0.715
29313.527	3410.4159	36.	0.715
29310.886	3410.7232	32.	0.715
29309.202	3410.9192	13.	0.715
29307.495	3411.1179	24.	0.834
29305.341	3411.3586	15.	0.715
29303.184	3411.6197	14.	0.595
29301.784	3411.7827	22.	0.476
29300.901	3411.8855	32.	0.714
29299.372	3412.0636	12.	0.476
29297.436	3412.2890	14.	0.595
29296.103	3412.4443	22.	0.714
29294.644	3412.6143	49.	0.833
29292.741	3412.8360	14.	0.952
29291.241	3413.0108	18.	0.595
29290.177	3413.1347	31.	0.595
29288.916	3413.2817	21.	0.714
29286.726	3413.5369	15.	1.189
29285.437	3413.6872	15.	0.476
29283.948	3413.8608	34.	0.832
29282.327	3414.0498	15.	0.713
29280.891	3414.2172	21.	0.713
29277.946	3414.5606	14.	0.594

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
29276.103	3414.7756	31.	0.713	12,OR4
29273.695	3415.0565	13.	1.188	
29271.754	3415.2830	28.	0.950	12,OP3
29268.356	3415.6795	21.	0.831	
29266.789	3415.8624	14.	0.594	
29265.524	3416.0101	15.	0.712	
29263.321	3416.2672	16.	0.593	
29261.830	3416.4413	17.	0.712	
29260.348	3416.6143	13.	0.593	
29258.968	3416.7755	16.	0.712	
29257.802	3416.9117	16.	0.593	
29255.786	3417.1471	13.	0.593	
29254.289	3417.3219	14.	0.712	
29252.431	3417.5390	33.	0.593	12,OR5
29251.186	3417.6845	45.	0.711	
29249.462	3417.8859	68.	0.948	
29248.331	3418.0181	35.	0.593	
29246.813	3418.1956	30.	0.830	12,OP4
29245.203	3418.3838	32.	0.711	15,OR19
29243.289	3418.6075	22.	0.474	
29240.961	3418.8796	21.	0.592	
29239.694	3419.0278	23.	0.711	
29237.289	3419.3091	13.	1.066	
29235.884	3419.4734	12.	0.474	
29233.564	3419.7448	43.	0.829	13,OR12
29232.347	3419.8871	31.	0.592	15,OP18
29231.149	3420.0273	39.	0.592	14,OR16
29229.887	3420.1749	21.	0.592	
29227.663	3420.4352	12.	0.710	
29225.870	3420.6451	13.	0.473	
29224.869	3420.7623	14.	0.828	
29223.277	3420.9486	39.	0.710	12,OR6
29221.784	3421.1234	41.	0.710	13,OP11
29219.414	3421.4009	14.	0.946	
29217.966	3421.5705	33.	0.710	14,OP15
29216.517	3421.7401	30.	0.709	12,OP5
29214.652	3421.9586	14.	0.709	
29213.334	3422.1106	14.	0.709	
29212.030	3422.2657	14.	0.709	
29210.849	3422.4041	13.	0.473	
29208.543	3422.6744	28.	0.827	16,OR22
29206.236	3422.9447	15.	0.827	
29204.647	3423.1309	13.	0.709	
29201.248	3423.5294	28.	0.827	
29198.863	3423.8090	15.	0.472	
29197.574	3423.9602	24.	1.299	16,OP21
29194.801	3424.2854	23.	0.590	
29192.689	3424.5332	23.	0.826	
29190.526	3424.7869	15.	0.944	
29188.817	3424.9875	52.	0.826	12,OR7
29186.914	3425.2108	17.	0.708	
29185.469	3425.3804	12.	0.472	
29183.827	3425.5731	12.	1.533	
29181.030	3425.9014	31.	0.707	12,OP6
29179.638	3426.0649	22.	0.589	
29178.103	3426.2451	12.	0.471	
29176.963	3426.3791	14.	0.707	
29174.751	3426.6388	12.	0.589	
29170.620	3427.1241	37.	0.825	
29168.795	3427.3385	14.	0.942	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
29167.065	3427.5418	42.	0.824	13,OR13
29163.462	3427.3553	22.	0.824	
29161.184	3423.2331	21.	1.295	
29159.172	3428.4696	13.	0.824	
29157.230	3428.6980	23.	0.824	
29154.546	3429.0136	42.	0.824	13,OP12
29153.096	3429.1842	27.	0.706	
29151.705	3429.3478	14.	0.588	
29150.307	3429.5123	14.	0.588	
29148.980	3429.6684	41.	0.706	12,OR8
29146.039	3430.0146	23.	0.588	
29143.814	3430.2764	45.	0.823	14,OR17
29142.161	3430.4710	32.	0.823	15,OR20
29140.139	3430.7091	37.	0.823	12,OP7
29138.381	3430.9160	13.	0.587	
29136.589	3431.1270	22.	0.822	
29135.162	3431.2950	13.	0.587	
29133.318	3431.5122	13.	0.587	
29131.519	3431.7242	14.	0.587	
29130.070	3431.8949	34.	0.587	14,OP16
29128.994	3432.0217	27.	0.704	15,OP19
29125.875	3432.3891	17.	0.939	
29124.382	3432.5651	16.	0.822	
29121.887	3432.8592	14.	0.587	
29120.547	3433.0172	26.	0.821	
29118.002	3433.3172	13.	0.585	
29116.842	3433.4541	12.	0.586	
29115.528	3433.6091	13.	0.821	
29114.012	3433.7878	13.	0.704	
29112.579	3433.9568	16.	0.703	
29111.061	3434.1359	12.	0.469	
29108.046	3434.4917	14.	0.703	
29106.892	3434.6278	13.	0.586	
29105.228	3434.8241	12.	0.469	
29103.858	3434.9858	46.	0.820	12,OR9
29102.107	3435.1926	21.	1.282	
29100.346	3435.4004	15.	0.703	
29099.029	3435.5559	15.	0.586	
29097.364	3435.7525	14.	0.586	
29095.488	3435.9740	45.	0.820	13,OR14
29093.903	3436.1612	39.	0.937	12,OP8
29091.942	3436.3929	16.	0.585	
29090.351	3436.5808	27.	0.936	16,OR23
29088.360	3436.8161	14.	0.702	
29085.637	3437.1378	25.	0.936	
29082.276	3437.5351	70.	0.936	13,OP13
29079.137	3437.9061	23.	0.585	16,OP22
29078.030	3438.0370	21.	0.585	
29075.657	3438.3176	24.	0.935	
29073.746	3438.5437	21.	1.169	
29071.429	3438.8176	22.	0.701	
29067.792	3439.2480	15.	0.701	
29062.480	3439.8766	12.	0.701	
29056.240	3440.6154	131.	1.167	
29053.158	3440.9804	111.	1.284	12,OR10
29051.341	3441.1956	36.	0.700	14,OR18
29048.345	3441.5505	15.	0.700	
29045.731	3441.8603	13.	0.583	
29044.636	3441.9900	14.	0.700	
29042.564	3442.2356	41.	0.816	12,OP9

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
29039.927	3442.5481	16.	0.599	
29037.086	3442.8850	35.	0.816	14,OP17
29034.446	3443.1981	31.	0.816	15,OR21
29032.883	3443.3835	16.	0.599	
29031.586	3443.5372	13.	0.582	
29028.711	3443.8783	47.	0.932	
29026.517	3444.1387	14.	0.582	
29022.436	3444.6229	14.	0.582	
29021.139	3444.7769	27.	0.582	15,OP20
29020.123	3444.8975	22.	0.465	
29018.413	3445.1005	43.	1.396	13,OR15
29016.376	3445.3424	17.	0.698	11,OR1
29012.788	3445.7685	13.	0.814	
29009.066	3446.2106	31.	0.930	11,OR2
29006.327	3446.5360	16.	0.814	
29004.684	3446.7313	39.	0.814	13,OP14
29002.042	3447.0453	21.	0.930	
29000.782	3447.1950	16.	0.465	
29000.026	3447.2849	16.	0.465	
28997.907	3447.5369	49.	0.697	12,OR11
28996.296	3447.7283	98.	1.161	11,OR3
28992.605	3448.1673	25.	0.813	
28990.061	3448.4699	25.	0.813	
28987.526	3448.7715	17.	0.696	
28986.005	3448.9524	43.	0.696	12,OP10
28984.627	3449.1165	22.	0.696	
28983.511	3449.2492	16.	0.812	
28980.919	3449.5577	22.	0.928	
28979.676	3449.7057	17.	0.580	
28977.840	3449.9243	40.	0.812	11,OR4
28976.003	3450.1430	12.	0.464	
28974.462	3450.3266	15.	0.696	
28973.005	3450.5001	24.	0.811	11,OP3
28970.820	3450.7602	38.	0.811	
28967.412	3451.1663	24.	0.811	16,OR24
28965.860	3451.3512	12.	0.927	
28962.974	3451.6951	13.	1.274	
28961.046	3451.9249	15.	0.695	
28959.698	3452.0855	12.	0.695	
28958.117	3452.2741	14.	0.579	
28956.303	3452.4903	31.	0.695	16,OP23
28954.156	3452.7464	65.	1.042	14,OR19;11,OR5
28951.635	3453.0470	14.	0.579	
28949.675	3453.2808	17.	0.463	
28948.335	3453.4407	29.	0.810	11,OP4
28946.912	3453.6105	17.	1.157	
28945.085	3453.8284	12.	0.810	
28943.701	3453.9936	14.	0.810	
28942.019	3454.1943	63.	1.156	
28939.390	3454.5081	35.	0.809	14,OP18
28938.168	3454.6540	22.	0.462	
28936.915	3454.8036	84.	0.925	13,OR16;12,OR12
28933.274	3455.2384	12.	0.462	
28931.325	3455.4711	16.	0.693	
28929.758	3455.6584	12.	0.578	
28928.481	3455.8109	14.	0.809	
28927.004	3455.9873	12.	0.462	
28925.405	3456.1784	44.	0.693	11,OR6
28924.123	3456.3316	43.	0.693	12,OP11
28922.056	3456.5786	52.	1.154	15,OR22;13,OP15

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
28920.126	3456.8093	12.	1.039	11,OP5
28918.129	3457.0481	30.	0.808	
28911.789	3457.8062	14.	0.807	
28909.669	3458.0597	13.	0.692	15,OP21
28908.253	3458.2291	28.	0.692	
28906.780	3458.4053	16.	0.692	
28904.647	3458.6605	16.	0.922	11,OR7
28902.393	3458.9303	12.	1.268	
28899.181	3459.3148	17.	0.575	
28898.168	3459.4360	13.	0.461	11,OR7
28896.711	3459.6105	24.	1.037	
28893.184	3460.0327	23.	0.691	
28891.069	3460.2861	43.	0.806	11,OP6
28889.098	3460.5222	46.	1.036	
28887.594	3460.7023	12.	0.576	
28882.682	3461.2909	35.	0.806	12,OR13
28880.370	3461.5680	13.	0.460	
28879.195	3461.7088	13.	0.920	
28877.438	3461.9195	15.	0.805	12,OP12
28876.161	3462.0726	13.	0.575	
28874.054	3462.3252	26.	0.690	
28872.986	3462.4533	16.	0.460	14,OR20;11,OR8
28870.903	3462.7031	51.	0.920	
28869.047	3462.9258	13.	0.690	
28867.895	3463.0639	12.	0.460	13,OR17
28866.109	3463.2782	13.	0.575	
28864.286	3463.4969	13.	1.034	
28861.916	3463.7814	18.	0.689	11,OP7
28858.761	3464.1600	14.	0.574	
28857.287	3464.3369	121.	1.034	
28855.158	3464.5926	12.	1.033	16,OR25
28851.762	3465.0005	65.	1.148	
28850.049	3465.2061	47.	0.918	
28846.087	3465.6822	14.	0.588	14,OP19
28844.594	3465.8615	50.	1.032	
28841.856	3466.1905	41.	1.376	
28839.997	3466.4140	23.	0.573	13,OP16
28838.599	3466.5821	54.	1.032	
28836.696	3466.8108	31.	0.917	
28834.765	3467.0430	38.	0.802	16,OP24
28833.283	3467.2211	14.	0.588	
28830.448	3467.5622	14.	0.917	
28828.564	3467.7888	22.	1.375	15,OR23
28824.554	3468.2712	14.	0.573	
28823.467	3468.4019	14.	0.455	
28821.717	3468.6125	12.	0.916	12,OR14
28818.156	3469.0412	14.	0.587	
28816.800	3469.2045	14.	0.587	
28815.630	3469.3453	13.	0.458	11,OP8
28814.295	3469.5061	14.	0.915	
28809.019	3470.1414	17.	1.373	
28806.674	3470.4240	49.	0.801	15,OR23
28804.691	3470.6629	31.	0.800	
28803.260	3470.8353	14.	0.686	
28801.726	3471.0202	13.	0.800	12,OR14
28799.686	3471.2660	48.	0.914	
28796.117	3471.6963	43.	0.800	
28794.942	3471.8380	16.	0.571	11,OP8
28793.524	3472.0090	16.	0.685	
28792.130	3472.1771	21.	0.685	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
28790.854	3472.3298	24.	0.585	15,0P22
28788.846	3472.5732	69.	1.142	
28785.205	3473.0124	44.	0.799	12,0P13
28782.160	3473.3798	15.	0.799	
28780.692	3473.5570	28.	0.585	
28777.968	3473.8858	15.	0.585	
28776.453	3474.0657	16.	0.584	
28773.385	3474.4392	12.	0.456	
28772.172	3474.5856	15.	0.798	
28770.106	3474.8352	15.	1.254	
28768.240	3475.0605	12.	0.684	
28766.623	3475.2559	14.	0.912	
28765.006	3475.4512	64.	1.140	
28762.249	3475.7844	16.	1.481	
28760.415	3476.0061	13.	0.570	
28758.338	3476.2571	40.	0.797	13,0R18
28756.609	3476.4661	52.	0.797	11,0R10
28754.711	3476.6956	45.	0.797	
28753.461	3476.8467	14.	0.455	
28751.280	3477.1104	15.	0.569	
28749.404	3477.3374	13.	0.455	
28748.408	3477.4579	14.	0.569	
28746.911	3477.6390	13.	0.569	
28744.884	3477.8842	85.	0.796	14,0R21;11,0P9
28742.399	3478.1849	46.	1.024	13,0P17
28739.816	3478.4975	13.	0.910	
28738.551	3478.6507	13.	0.455	
28737.520	3478.7754	13.	0.910	
28735.037	3479.0761	18.	0.582	
28733.795	3479.2264	14.	0.582	
28732.647	3479.3654	14.	0.455	
28731.396	3479.5169	46.	0.796	
28729.344	3479.7655	37.	0.582	14,0P20
28727.237	3480.0208	23.	0.582	
28726.122	3480.1558	16.	0.454	
28724.972	3480.2952	19.	0.582	
28723.478	3480.4761	54.	0.795	12,0R15
28721.481	3480.7182	58.	0.908	
28719.011	3481.0176	23.	0.908	
28717.473	3481.2039	15.	0.454	
28716.609	3481.3087	14.	0.454	
28714.839	3481.5233	22.	0.794	
28711.569	3481.9198	75.	1.021	
28709.283	3482.1971	19.	0.454	
28707.968	3482.3567	93.	0.907	16,0R26;12,0P14
28705.470	3482.6596	13.	1.021	
28703.981	3482.8404	16.	0.580	
28701.205	3483.1772	58.	1.020	11,0R11
28698.956	3483.4502	29.	0.580	10,0R3
28697.001	3483.6875	22.	0.580	16,0P25
28695.183	3483.9082	32.	1.473	10,0P2
28691.101	3484.4039	14.	0.566	
28688.482	3484.7220	51.	0.793	11,0P10
28686.982	3484.9042	12.	0.566	
28685.831	3485.0441	12.	1.019	
28684.321	3485.2274	12.	0.579	
28682.705	3485.4239	29.	0.792	15,0R24
28680.948	3485.6374	42.	0.905	10,0R4
28679.096	3485.8625	15.	0.792	
28677.276	3486.0837	15.	0.579	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
28675.755	3486.2687	25.	0.792
28673.546	3486.5372	12.	0.566
28672.216	3486.6930	13.	0.579
28670.327	3486.9286	12.	1.018
28668.789	3487.1158	24.	0.791
28665.790	3487.4806	12.	0.904
28664.741	3487.6082	13.	0.452
28663.983	3487.7005	12.	0.565
28661.659	3487.9833	37.	0.791
28660.086	3488.1747	17.	0.678
28658.938	3488.3144	21.	0.565
28657.437	3488.4972	43.	0.791
28656.122	3488.6572	14.	0.452
28654.986	3488.7955	13.	0.678
28653.116	3489.0233	15.	0.678
28651.080	3489.2712	37.	0.677
28649.964	3489.4071	23.	0.564
28647.968	3489.6503	22.	0.790
28646.580	3489.8194	22.	0.677
28645.125	3489.9966	50.	0.790
28643.991	3490.1347	24.	0.564
28642.205	3490.3524	63.	0.790
28640.435	3490.5681	212.	1.128
28638.829	3490.7638	13.	0.451
28637.691	3490.9025	14.	0.677
28635.671	3491.1488	13.	0.677
28633.036	3491.4702	44.	0.789
28630.689	3491.7564	14.	0.564
28628.701	3491.9988	57.	0.902
28627.076	3492.1971	67.	0.563
28625.973	3492.3316	61.	0.676
28621.025	3492.9354	50.	0.901
28617.304	3493.3895	45.	0.901
28614.055	3493.7862	12.	0.450
28613.175	3493.8937	13.	0.450
28611.953	3494.0392	23.	0.675
28610.730	3494.1923	22.	0.563
28608.880	3494.4182	23.	0.788
28606.952	3494.6538	13.	0.675
28603.801	3495.0388	25.	0.787
28602.020	3495.2564	25.	0.900
28599.808	3495.5267	22.	0.787
28598.237	3495.7187	13.	0.562
28597.153	3495.8513	13.	0.450
28596.072	3495.9834	15.	0.674
28594.637	3496.1589	62.	0.787
28591.924	3496.4907	23.	0.674
28589.834	3496.7462	24.	0.674
28588.417	3496.9196	13.	0.786
28586.991	3497.0940	14.	0.562
28585.754	3497.2453	49.	0.786
28583.463	3497.5257	12.	0.449
28582.235	3497.6759	23.	0.674
28580.866	3497.8435	69.	0.898
28579.074	3498.0628	61.	0.898
28575.026	3498.5584	74.	0.898
28571.396	3499.0029	28.	0.785
28569.878	3499.1887	12.	0.673
28568.395	3499.3704	25.	0.673
28567.062	3499.5338	13.	0.561

15,0P23

13,0R19

10,0R5

10,0P4

13,0P8

12,0R16

11,0R12

14,0R22

10,0R6

11,0P11

12,0P15

10,0P5

14,0P21

10,0R7

10,0P6

11,0R13

16,0R27

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
28565.583	3499.7149	12.	1.233	
28563.513	3493.9685	13.	0.672	
28561.551	3500.2089	24.	0.560	
28560.225	3500.3715	114.	1.121	16,OP26;13,OR20;11,OP12
28555.648	3500.9325	82.	1.792	15,OR25;10,OR8
28553.362	3501.2129	69.	1.008	
28552.059	3501.3726	14.	0.448	
28549.620	3501.6718	23.	0.784	
28548.329	3501.8302	12.	0.560	
28546.824	3502.0147	22.	0.895	
28545.233	3502.2099	52.	0.783	10,OP7
28543.100	3502.4717	50.	0.671	13,OP19
28542.168	3502.5860	33.	0.559	15,OP24
28540.068	3502.8437	21.	0.447	
28538.951	3502.9809	59.	0.783	
28535.684	3503.3820	20.	0.559	
28534.841	3503.4854	21.	0.447	
28534.075	3503.5795	22.	0.671	
28529.541	3504.1362	13.	0.782	
28527.442	3504.3942	15.	0.670	
28526.077	3504.5618	21.	0.782	
28524.644	3504.7379	21.	0.782	
28523.385	3504.8926	14.	0.559	
28522.181	3505.0406	15.	0.558	
28519.624	3505.3548	13.	1.340	
28518.039	3505.5496	13.	0.558	
28516.597	3505.7269	41.	0.782	14,OR23
28514.503	3505.9844	13.	1.223	
28512.206	3506.2668	12.	0.446	
28510.659	3506.4571	67.	0.781	10,OR9
28508.174	3506.7628	25.	0.558	
28507.177	3506.8853	23.	0.446	
28504.208	3507.2507	76.	0.781	11,OR14
28502.318	3507.4833	15.	0.558	
28500.590	3507.6960	39.	0.669	14,OP22
28499.338	3507.8500	55.	0.780	10,OP8
28496.954	3508.1436	26.	0.780	
28495.381	3508.3372	12.	0.557	
28494.198	3508.4829	12.	0.557	
28491.877	3508.7687	21.	0.668	
28488.664	3509.1644	64.	0.780	11,OP13
28487.662	3509.2878	24.	0.446	
28485.661	3509.5343	21.	0.668	
28484.158	3509.7195	16.	0.668	
28482.116	3509.9711	14.	0.445	
28481.151	3510.0900	22.	0.668	
28479.397	3510.3063	21.	0.556	
28478.196	3510.4543	14.	0.568	
28476.037	3510.7205	39.	0.663	
28473.756	3511.0016	13.	0.779	
28470.967	3511.3456	13.	0.556	
28470.052	3511.4585	14.	0.556	
28464.540	3512.1385	65.	0.889	
28463.064	3512.3207	14.	0.778	
28460.783	3512.6021	69.	0.889	10,OR10
28456.559	3513.1235	12.	0.444	
28455.112	3513.3022	13.	0.555	
28453.708	3513.4756	45.	0.777	13,OR21
28450.970	3513.8137	43.	0.777	
28448.473	3514.1221	62.	0.888	10,OP9

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
28447.024	3514.3011	54.	0.777	
28444.628	3514.5972	14.	0.888	
28443.037	3514.7938	13.	0.777	
28439.817	3515.1917	68.	0.998	
28436.250	3515.6326	50.	0.776	13,0P20
28432.483	3516.0984	21.	0.776	
28430.537	3516.3391	25.	0.887	16,0R28
28428.347	3516.6100	67.	0.887	11,0R15
28426.180	3516.8782	15.	0.554	9,0R0
28425.101	3517.0116	29.	0.554	15,0R26
28423.940	3517.1553	26.	0.775	9,0R1
28422.245	3517.3650	14.	0.665	
28420.065	3517.6348	25.	0.775	16,0P27
28418.739	3517.7990	16.	0.664	
28416.703	3518.0511	33.	0.775	9,0R2
28415.116	3518.2475	13.	0.554	
28414.024	3518.3828	14.	0.553	9,0P1
28411.822	3518.6554	71.	0.996	15,0P24;11,0P14
28410.500	3518.8192	25.	0.553	
28407.673	3519.1694	22.	0.664	
28405.784	3519.4034	69.	0.885	10,0R11
28404.060	3519.6170	45.	0.995	9,0R3
28402.284	3519.8371	22.	0.663	
28401.046	3519.9906	16.	0.442	
28399.982	3520.1224	24.	0.553	9,0P2
28397.078	3520.4825	169.	1.326	
28395.400	3520.6905	34.	0.663	14,0R24
28393.760	3520.8938	21.	0.663	
28392.268	3521.0789	60.	0.773	10,0P10
28390.788	3521.2624	50.	0.663	
28389.226	3521.4561	12.	0.884	
28387.400	3521.6827	15.	0.552	
28386.123	3521.8411	39.	0.663	9,0R4
28384.955	3521.9860	22.	0.552	
28381.967	3522.3568	13.	0.442	
28380.720	3522.5115	31.	0.773	9,0P3
28379.209	3522.6991	34.	0.773	14,0P23
28376.984	3522.9754	15.	0.662	
28374.852	3523.2401	14.	0.772	
28372.848	3523.4890	13.	0.662	
28370.705	3523.7551	22.	0.772	
28368.406	3524.0406	51.	0.882	
28366.851	3524.2338	14.	0.551	
28364.332	3524.5469	35.	0.772	
28362.771	3524.7408	52.	0.772	9,0R5
28360.342	3525.0427	13.	1.322	
28357.505	3525.3954	13.	0.771	
28356.076	3525.5730	34.	0.771	9,0P4
28352.379	3526.0328	59.	0.881	
28351.305	3526.1663	33.	0.440	
28350.306	3526.2906	52.	0.661	
28348.763	3526.4825	24.	0.550	
28347.429	3526.6485	64.	0.881	11,0R16
28345.529	3526.8849	68.	0.770	10,0R12
28342.640	3527.2444	43.	0.880	13,0R22
28340.047	3527.5671	15.	0.990	
28338.244	3527.7916	16.	0.660	
28334.164	3528.2996	51.	0.880	9,0R6
28332.839	3528.4647	13.	0.550	
28331.076	3528.6842	61.	0.660	10,0P11

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)(v', v'', Branch J)
28330.047	3528.8124	62.	0.553 11,0P15
28327.778	3529.0950	14.	0.549
28326.185	3529.2935	41.	0.553 9,0P5
28324.753	3529.4707	42.	0.769 13,0P21
28321.949	3529.8214	15.	0.549
28319.405	3530.1385	12.	0.659
28317.424	3530.3854	25.	0.659
28313.889	3530.8262	14.	0.878
28312.007	3531.0610	21.	0.768
28308.718	3531.4712	15.	0.768
28305.676	3531.8508	13.	0.658
28304.382	3532.0122	14.	0.548
28302.308	3532.2711	21.	1.206
28300.300	3532.5217	52.	0.767 9,0R7
28299.205	3532.6584	16.	0.439
28296.552	3532.9896	23.	0.986
28294.876	3533.1989	24.	0.658
28292.856	3533.4512	12.	0.548
28290.987	3533.6846	44.	0.767 9,0P6
28289.618	3533.8556	28.	0.657 15,0R27
28288.612	3533.9812	15.	0.438
28287.186	3534.1595	13.	0.548
28285.282	3534.3973	22.	0.657 16,0R29
28283.858	3534.5753	12.	0.547
28280.181	3535.0349	64.	0.876 10,0R13
28277.359	3535.3877	14.	0.766
28275.906	3535.5694	27.	0.656 15,0P26
28274.988	3535.6841	22.	0.547 16,0P28
28273.285	3535.8971	16.	0.656
28271.575	3535.1110	25.	0.656
28269.815	3536.3311	30.	0.656 14,0R25
28267.726	3536.5925	47.	1.312
28264.592	3536.9846	60.	0.874 10,0P12
28262.979	3537.1864	13.	0.437
28261.355	3537.3898	78.	1.311 11,0R17;9,0R8
28259.660	3537.6019	13.	0.437
28258.658	3537.7274	13.	0.546
28257.371	3537.8835	17.	0.546
28255.697	3538.0981	16.	0.655
28253.424	3538.3827	31.	0.764 14,0P24
28250.499	3538.7492	50.	0.983 9,0P7
28248.770	3538.9657	50.	0.764
28247.301	3539.1492	17.	0.873
28245.887	3539.3269	14.	0.437
28244.812	3539.4617	16.	0.437
28243.471	3539.6298	62.	0.873 11,0P16
28239.275	3540.1557	15.	0.873
28236.528	3540.5001	13.	0.654
28234.422	3540.7642	13.	0.981
28233.199	3540.9175	13.	0.545
28231.881	3541.0828	40.	0.654
28230.586	3541.2454	12.	0.436
28229.028	3541.4407	12.	0.981
28226.887	3541.7094	36.	0.654 13,0R23
28225.169	3541.9250	12.	0.436
28223.958	3542.0770	41.	0.654
28222.043	3542.3174	16.	0.762
28218.679	3542.7396	17.	0.544
28217.894	3542.8382	30.	0.436
28216.688	3542.9896	63.	0.762 9,0R9

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
28214.300	3543.2895	12.	0.544	
28211.334	3543.6620	12.	0.762	
28209.760	3543.8598	61.	0.553	10,OR14
28208.627	3544.0021	38.	0.544	13,OP22
28206.671	3544.2478	12.	0.761	
28204.874	3544.4736	56.	0.870	9,OP8
28201.986	3544.8366	12.	0.435	
28201.005	3544.9600	13.	0.435	
28199.826	3545.1082	27.	0.761	
28195.570	3545.6433	15.	0.552	
28193.103	3545.9536	73.	0.869	10,OP13
28189.801	3546.3689	13.	0.869	
28186.879	3546.7366	14.	0.760	
28184.418	3547.0463	13.	0.543	
28183.225	3547.1965	12.	0.543	
28181.321	3547.4361	12.	0.377	
28179.878	3547.6178	12.	0.760	
28178.199	3547.8292	15.	0.551	
28176.435	3548.0513	14.	0.759	
28175.137	3548.2147	13.	0.542	
28170.774	3548.7643	50.	0.868	11,OR18
28167.025	3549.2366	57.	0.759	9,OR10
28165.266	3549.4582	12.	0.550	
28161.701	3549.9076	41.	0.759	
28159.542	3550.1798	16.	0.867	
28157.430	3550.4462	12.	0.375	
28154.063	3550.8708	51.	0.866	9,OP9
28151.972	3551.1345	52.	0.866	11,OP17
28149.754	3551.4143	24.	0.550	15,OR28
28146.718	3551.7974	13.	0.549	
28145.291	3551.9774	13.	0.549	
28143.669	3552.1822	16.	0.541	
28142.472	3552.3333	44.	0.757	
28140.999	3552.5192	16.	0.549	
28139.632	3552.6918	27.	0.549	14,OR26
28138.050	3552.8915	14.	0.373	
28135.374	3553.1537	27.	1.081	16,OR30
28134.158	3553.3831	64.	0.865	10,OR15
28132.256	3553.6233	21.	0.540	8,OR1
28131.334	3553.7398	25.	0.432	
28128.778	3554.0627	13.	1.081	
28126.074	3554.4044	18.	0.648	16,OP29
28124.887	3554.5545	26.	0.548	8,OR2
28123.281	3554.7574	29.	0.648	14,OP25
28121.948	3554.9260	82.	0.756	
28120.699	3555.0839	15.	0.540	
28118.081	3555.4148	17.	0.540	
28116.720	3555.5869	59.	0.864	
28112.236	3556.1541	99.	0.863	9,OR11;8,OR3
28110.516	3556.3716	12.	0.863	
28109.244	3556.5326	13.	0.432	
28108.088	3556.6789	25.	0.755	8,OP2
28106.517	3556.8777	63.	0.755	13,OR24
28103.874	3557.2122	14.	0.755	
28101.576	3557.5031	12.	0.539	
28100.577	3557.6296	12.	0.431	
28099.277	3557.7941	29.	0.647	
28098.051	3557.9494	54.	0.754	9,OP10
28096.633	3558.1290	15.	0.647	
28094.473	3558.4025	38.	0.646	8,OR3

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
28093.530	3553.5221	70.	0.754
28091.578	3552.7693	25.	0.646
28088.417	3559.1697	35.	1.400
28082.729	3559.8906	15.	0.753
28078.718	3560.3993	16.	0.646
28075.125	3560.8549	45.	0.861
28073.578	3561.0511	16.	0.645
28072.463	3561.1926	15.	0.538
28071.138	3561.3607	37.	0.860
28068.973	3561.6353	12.	0.753
28064.175	3562.2443	27.	0.752
28060.646	3562.6924	12.	0.537
28058.769	3562.9307	14.	0.859
28056.816	3563.1787	13.	0.430
28055.600	3563.3331	52.	0.752
28053.675	3563.5776	53.	0.859
28052.256	3563.7579	58.	0.644
28051.148	3563.8986	38.	0.537
28046.390	3564.5093	12.	0.644
28042.654	3564.9782	37.	0.858
28039.501	3565.3790	172.	1.072
28036.968	3565.7012	52.	0.751
28035.329	3565.9097	53.	0.643
28034.256	3566.0461	30.	0.643
28031.590	3566.3853	42.	0.357
28030.066	3566.5792	13.	0.429
28026.604	3567.0198	13.	0.643
28019.249	3567.9561	12.	0.428
28018.274	3568.0804	14.	0.642
28016.923	3568.2523	12.	0.428
28014.926	3568.5068	157.	1.177
28012.854	3568.7707	15.	0.642
28011.201	3568.9813	13.	0.642
28010.102	3569.1213	12.	0.428
28008.849	3569.2810	39.	0.856
28007.005	3569.5160	22.	0.749
28005.270	3569.7372	35.	1.069
28002.487	3570.0919	414.	1.069
28001.080	3570.2713	99.	0.541
27999.240	3570.5059	37.	0.748
27994.688	3571.0866	16.	0.748
27993.569	3571.2294	19.	0.641
27992.258	3571.3966	23.	0.748
27988.717	3571.8484	25.	0.641
27987.201	3572.0419	49.	1.068
27984.336	3572.4076	12.	0.854
27981.709	3572.7431	34.	1.067
27980.138	3572.9437	15.	0.640
27976.981	3573.3468	13.	0.427
27976.037	3573.4674	15.	0.533
27974.657	3573.6436	45.	0.747
27972.878	3573.8710	23.	0.746
27970.860	3574.1288	56.	0.746
27969.736	3574.2660	45.	0.640
27968.243	3574.4632	47.	0.533
27966.960	3574.6273	119.	0.959
27963.033	3575.1292	33.	0.746
27961.177	3575.3665	13.	0.426
27960.124	3575.5012	13.	0.426
27958.885	3575.6597	41.	0.852

13,0P23;8,0P3

11,0R19

8,0R5

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
27954.531	3576.2167	49.	0.852	11,0P19
27953.197	3576.3872	15.	0.639	
27950.286	3576.7597	13.	0.532	
27948.931	3576.9332	55.	0.851	10,0P16
27946.008	3577.3073	15.	1.064	
27942.692	3577.7319	13.	0.745	
27941.335	3577.9057	15.	0.744	
27939.918	3578.0871	12.	0.744	
27936.231	3578.5594	36.	0.532	
27934.980	3578.7196	476.	0.957	
27933.410	3578.9208	15.	0.538	
27929.054	3579.4789	17.	1.275	
27925.569	3579.9257	47.	0.850	8,0R9
27923.933	3580.1354	13.	0.637	
27922.215	3580.3557	16.	0.743	
27918.639	3580.8142	14.	0.955	
27917.012	3581.0229	68.	0.637	9,0R14
27915.560	3581.2092	10990.	1.273	
27913.375	3581.4896	40.	0.637	8,0P8
27912.012	3581.6645	14.	0.743	
27910.675	3581.8361	12.	0.636	
27907.873	3582.1957	24.	0.636	
27906.823	3582.3304	16.	0.636	
27903.896	3582.7062	13.	0.636	
27899.578	3583.2608	55.	0.848	9,0P13
27897.514	3583.5259	12.	0.954	
27894.088	3583.9660	14.	0.741	
27888.705	3584.6578	38.	0.741	
27886.354	3584.9601	26.	0.635	
27883.579	3585.3169	78.	0.952	
27881.961	3585.5249	14.	0.846	
27880.557	3585.7054	48.	0.741	
27877.611	3586.0845	79.	0.952	10,0R18
27876.090	3586.2800	46.	0.635	8,0R10
27870.647	3586.9805	71.	0.634	
27869.370	3587.1448	44.	0.740	11,0R21
27867.251	3587.4176	12.	0.528	
27866.093	3587.5667	24.	0.740	14,0R28
27864.668	3587.7502	13.	0.528	
27862.673	3588.0071	43.	0.845	8,0P9
27860.086	3588.3402	13.	1.056	
27857.659	3588.6529	61.	1.161	10,0P17
27855.096	3588.9831	13.	0.528	
27854.143	3589.1058	14.	0.528	
27852.264	3589.3480	26.	0.739	
27849.897	3589.6530	25.	0.633	14,0P27
27848.659	3589.8126	43.	0.739	11,0P20
27846.385	3590.1058	13.	0.633	7,0R0
27844.366	3590.3662	26.	0.738	7,0R1
27841.683	3590.7121	47.	0.844	9,0R15
27837.071	3591.3071	25.	0.738	
27833.994	3591.7041	30.	1.264	7,0R2;13,0P25
27832.422	3591.9069	15.	0.527	
27828.216	3592.4499	13.	0.737	
27824.726	3592.9005	29.	0.632	7,0R3
27823.332	3593.0805	50.	0.632	9,0P14
27821.525	3593.3138	43.	0.842	8,0R11
27820.030	3593.5070	833.	0.947	
27818.837	3593.6610	164.	0.631	
27817.692	3593.8091	13.	0.421	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
27816.401	3593.9758	29.	0.735	
27815.012	3594.1553	20.	0.631	
27811.352	3594.6270	25.	0.631	
27810.260	3594.7695	15.	0.526	
27806.849	3595.2104	63.	0.841	7,OR4;8,OP10
27801.034	3595.9525	17.	0.736	7,OP3
27796.046	3596.6078	30.	0.840	
27783.793	3598.1939	28.	0.629	7,OR5
27782.422	3598.3715	38.	0.734	10,OR19
27776.382	3599.1539	21.	0.734	7,OP6
27773.848	3599.4824	14.	0.839	
27768.545	3600.1697	100.	0.838	
27766.327	3600.4574	12.	0.629	
27763.084	3600.8779	14.	0.524	
27761.621	3601.0677	122.	1.257	10,OP18;9,OR16;8,OR12.
27759.425	3601.3527	37.	0.838	11,OR22
27757.080	3601.6569	14.	0.837	
27755.341	3601.8825	30.	0.628	7,OR6
27754.080	3602.0461	15.	0.628	
27752.976	3602.1895	400.	0.523	
27750.394	3602.5247	13.	0.523	
27746.470	3603.0341	29.	0.523	7,OP5
27745.926	3603.1047	43.	0.418	8,OP11
27745.070	3603.2159	39.	0.418	
27742.207	3603.5879	44.	0.835	9,OP15
27738.281	3604.0979	36.	0.732	11,OP21
27735.085	3604.5132	12.	0.522	
27731.684	3604.9553	833.	0.522	
27730.611	3605.0947	14.	0.627	
27728.687	3605.3450	182.	0.731	
27727.626	3605.4829	42.	0.522	
27726.648	3605.6101	15.	0.418	
27722.960	3606.0897	25.	0.731	14,OR29
27721.504	3606.2792	34.	0.835	7,OR7
27718.417	3606.6807	124.	0.939	
27717.126	3606.8487	454.	0.522	
27714.146	3607.2365	999.	0.521	
27713.319	3607.3442	9990.	0.521	
27711.630	3607.5641	31.	0.834	7,OP6
27706.655	3608.2119	24.	1.146	14,OP28
27704.750	3608.4600	21.	1.042	
27702.751	3608.7204	42.	0.729	
27701.527	3608.8799	370.	1.042	
27699.508	3609.1430	34.	0.937	13,OP26
27696.842	3609.4904	74.	0.981	
27692.046	3610.1155	101.	1.226	
27689.550	3610.4409	21.	0.735	
27687.344	3610.7285	25.	0.980	
27685.296	3610.8957	16.	0.612	
27684.045	3611.1589	14.	0.490	
27682.496	3611.3609	134.	1.102	7,OR8
27679.937	3611.6949	78.	0.979	
27676.306	3612.1687	73.	0.857	
27673.940	3612.4775	21.	0.734	
27671.478	3612.7990	100.	0.979	7,OP7
27668.959	3613.1279	13.	0.612	
27666.628	3613.4323	15.	0.856	
27664.747	3613.6779	13.	0.734	
27662.665	3613.9500	25.	0.734	
27661.100	3614.1544	81.	0.856	
27659.240	3614.3975	12.	0.733	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
27656.188	3514.7963	82.	0.978
27654.375	3515.0334	25.	0.733
27652.814	3515.2374	12.	0.489
27651.774	3515.3734	12.	0.977
27648.493	3515.8024	14.	0.611
27647.215	3515.9695	23.	0.733
27644.951	3516.2658	55.	0.855
27643.453	3516.4617	13.	0.488
27642.408	3516.5984	15.	0.610
27641.324	3516.7402	13.	0.732
27640.020	3516.9109	15.	0.488
27638.502	3517.1095	62.	0.976
27635.621	3517.4867	16.	0.854
27633.413	3517.7757	33.	0.732
27629.820	3518.2462	28.	0.732
27626.997	3518.6159	69.	0.609
27625.777	3518.7757	179.	1.097
27623.367	3519.0914	71.	0.975
27621.883	3519.2859	14.	0.487
27620.145	3519.5137	13.	0.609
27618.584	3519.7182	25.	0.974
27616.311	3520.0161	29.	0.731
27614.362	3520.2716	13.	0.731
27612.775	3520.4797	16.	0.852
27611.219	3520.6838	14.	0.609
27608.879	3520.9907	94.	0.974
27606.742	3521.2709	13.	0.487
27605.392	3521.4481	37.	0.730
27603.743	3521.6643	14.	1.095
27601.241	3521.9926	33.	0.608
27599.925	3522.1653	22.	0.730
27595.402	3522.7591	25.	0.729
27592.000	3523.2058	36.	1.215
27589.184	3523.5756	76.	0.851
27587.627	3523.7801	26.	0.729
27586.261	3523.9595	82.	0.850
27583.529	3524.3185	21.	0.729
27582.014	3524.5175	20.	0.729
27580.379	3524.7325	44.	0.850
27577.672	3525.0883	73.	0.971
27575.432	3525.3828	87.	1.092
27573.688	3525.6121	21.	0.607
27571.621	3525.8839	13.	0.607
27570.528	3526.0277	13.	0.607
27569.221	3526.1995	15.	0.607
27568.141	3526.3416	15.	0.607
27566.831	3526.5139	22.	0.606
27565.326	3526.7119	93.	0.970
27563.562	3526.9440	54.	0.970
27561.673	3527.1926	53.	1.091
27559.686	3527.4541	35.	0.849
27557.987	3527.6778	13.	0.485
27557.003	3527.8073	16.	0.485
27555.783	3527.9679	77.	0.727
27554.500	3528.1369	33.	0.606
27551.857	3528.4849	82.	0.969
27549.893	3528.7436	24.	1.332
27547.862	3529.0112	37.	1.090
27546.136	3529.2386	14.	0.605
27544.452	3529.4604	34.	0.968
27542.497	3529.7180	66.	1.331
27538.997	3530.1793	21.	0.605
27537.784	3530.3393	28.	0.605

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7,0R10

7,0P9

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT
				(v', v'', Branch J)
27536.162	3630.5532	34.	0.847	
27534.636	3630.7544	72.	0.847	7,OR11
27532.630	3631.0188	63.	1.330	
27529.269	3631.4622	56.	1.209	
27527.244	3631.7293	21.	0.604	
27525.858	3631.9123	54.	0.725	
27524.326	3632.1145	35.	0.846	
27522.880	3632.3052	13.	0.604	6,OR4
27521.302	3632.5134	36.	0.846	
27519.691	3632.7261	72.	0.725	7,OP10
27518.475	3632.8866	30.	0.604	6,OP3
27515.862	3633.2317	15.	0.604	
27514.477	3633.4146	23.	0.966	
27512.634	3633.6580	39.	0.966	
27510.226	3633.9760	21.	0.724	
27508.910	3634.1499	22.	0.724	
27507.705	3634.3091	14.	0.483	
27506.311	3634.4933	25.	0.845	
27503.855	3634.8178	69.	0.724	
27501.313	3635.1538	48.	0.724	6,OR5
27500.053	3635.3204	14.	0.482	
27497.918	3635.6027	28.	0.724	
27496.820	3635.7478	21.	0.603	
27493.957	3636.1224	27.	0.844	
27491.309	3636.4766	55.	0.844	6,OP4
27489.346	3636.7364	23.	0.723	
27488.081	3636.9038	18.	0.843	
27486.627	3637.0961	17.	0.602	
27484.751	3637.3444	18.	0.723	
27483.591	3637.4978	16.	0.602	
27482.253	3637.6750	14.	0.602	
27481.039	3637.8358	16.	0.723	
27479.417	3638.0505	12.	0.602	
27477.764	3638.2694	26.	0.722	
27476.589	3638.4249	15.	0.481	
27475.065	3638.6267	61.	1.083	
27473.070	3638.8909	41.	0.722	7,OR12
27471.739	3639.0672	73.	0.842	6,OR6
27469.709	3639.3362	94.	0.862	
27468.075	3639.5527	52.	0.842	
27465.966	3639.8321	13.	0.862	
27464.216	3640.0641	37.	0.842	
27461.896	3640.3716	25.	0.721	6,OP5
27461.085	3640.4791	20.	0.481	
27458.801	3640.7819	66.	0.841	7,OP11
27456.748	3641.0542	13.	0.481	
27455.630	3641.2024	13.	0.721	
27453.416	3641.4962	16.	0.601	
27451.942	3641.6917	67.	0.961	
27450.004	3641.9487	18.	0.721	
27448.703	3642.1214	14.	0.841	
27447.294	3642.3084	13.	0.480	
27445.715	3642.5178	72.	1.081	
27443.784	3642.7742	13.	0.840	
27442.373	3642.9615	15.	0.340	
27440.788	3643.1719	22.	0.840	
27439.405	3643.3556	41.	0.720	
27438.114	3643.5270	43.	0.720	6,OR7
27436.788	3643.7030	18.	0.600	
27435.160	3643.9194	27.	0.840	
27433.998	3644.0737	16.	0.480	
27432.877	3644.2226	12.	0.600	
27430.523	3644.5353	37.	0.719	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
27429.188	3644.7127	44.	0.719	6,OP6
27428.230	3644.8400	28.	0.719	
27426.501	3645.0565	14.	0.599	
27425.024	3645.2660	31.	0.719	
27423.975	3645.4056	34.	0.839	
27422.703	3645.5746	14.	0.479	
27421.892	3645.6825	13.	0.479	
27420.705	3645.8402	16.	0.719	
27419.225	3646.0371	46.	1.078	
27414.599	3646.6524	13.	0.718	
27412.342	3646.9526	21.	0.718	
27409.993	3647.2652	63.	1.317	7,OR13
27408.420	3647.4744	28.	0.598	
27406.058	3647.7888	41.	2.034	
27403.548	3648.1229	16.	0.718	
27402.055	3648.3217	49.	0.837	
27400.463	3648.5336	38.	0.718	6,OR8
27396.277	3649.0912	16.	0.717	
27394.896	3649.2751	20.	0.837	
27393.084	3649.5165	74.	0.837	7,OP12
27391.534	3649.7231	67.	0.956	
27389.368	3650.0117	41.	1.314	6,OP7
27387.087	3650.3157	57.	1.434	
27385.116	3650.5784	14.	0.597	
27384.122	3650.7109	13.	0.478	
27382.985	3650.8626	13.	0.597	
27381.798	3651.0208	15.	0.478	
27379.829	3651.2833	62.	0.836	13,2P7
27378.462	3651.4657	32.	0.597	
27375.835	3651.8161	24.	0.716	
27372.144	3652.3086	12.	0.716	
27370.825	3652.4845	23.	0.716	9,1R2
27369.177	3652.7045	75.	0.954	
27366.047	3653.1223	78.	1.073	
27362.740	3653.5638	14.	0.477	
27361.458	3653.7350	31.	0.834	
27357.930	3654.2062	22.	0.834	9,1R3
27356.455	3654.4032	47.	0.834	6,OR9
27355.247	3654.5645	23.	0.477	
27353.949	3654.7380	54.	0.834	
27349.926	3655.2755	26.	0.834	13,2R9
27348.542	3655.4606	13.	0.476	
27346.958	3655.6724	18.	0.833	
27343.645	3656.1153	39.	0.833	6,OP8
27340.476	3656.5390	64.	0.833	9,1R4;7,OR14
27339.184	3656.7119	25.	0.476	
27337.745	3656.9043	26.	1.190	13,2P8
27335.734	3657.1733	14.	0.952	
27334.383	3657.3541	15.	0.595	9,1P3
27333.298	3657.4993	14.	0.595	
27331.110	3657.7921	62.	0.832	
27329.513	3658.0058	22.	0.713	
27327.379	3658.2915	26.	0.713	
27325.494	3658.5439	18.	0.351	
27323.435	3658.8196	16.	0.713	
27322.066	3659.0029	65.	0.713	7,OP13
27320.565	3659.2040	40.	0.832	
27319.291	3659.3746	17.	0.475	
27318.209	3659.5196	29.	0.594	9,1R5
27317.085	3659.6702	18.	0.475	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
27315.742	3659.2501	17.	0.950
27314.319	3660.0408	17.	0.712
27312.734	3660.2532	26.	0.831
27310.419	3660.5634	18.	0.712
27307.157	3661.0007	43.	0.831
27305.587	3661.2112	16.	0.949
27302.879	3661.5744	27.	0.830
27299.957	3661.9663	12.	0.474
27298.979	3662.0975	13.	0.593
27297.094	3662.3503	54.	0.830
27295.773	3662.5276	18.	0.593
27293.134	3662.8818	97.	0.948
27291.619	3663.0851	35.	0.593
27289.398	3663.3832	30.	1.303
27287.090	3663.6932	52.	0.711
27285.749	3663.8732	30.	0.711
27284.298	3664.0681	27.	0.829
27283.120	3664.2262	18.	0.592
27281.479	3664.4466	18.	0.829
27278.665	3664.8247	23.	0.829
27275.473	3665.2535	69.	0.947
27274.067	3665.4425	40.	0.592
27273.128	3665.5687	34.	0.473
27271.957	3665.7261	42.	0.947
27270.548	3665.9155	15.	0.473
27268.650	3666.1707	28.	0.710
27266.416	3666.4710	24.	0.473
27265.555	3666.5868	55.	0.709
27264.071	3666.7864	70.	0.828
27262.165	3667.0427	22.	1.182
27259.354	3667.4209	14.	0.591
27258.087	3667.5914	28.	0.709
27256.820	3667.7620	14.	0.591
27255.505	3667.9389	12.	0.591
27253.079	3668.2654	47.	1.181
27251.344	3668.4990	68.	1.063
27249.796	3668.7074	28.	0.709
27248.575	3668.8717	29.	0.472
27247.410	3669.0287	43.	0.708
27246.092	3669.2062	60.	0.708
27243.864	3669.5062	22.	0.472
27242.761	3669.6547	28.	0.590
27241.532	3669.8136	22.	0.590
27239.768	3670.0580	28.	0.826
27237.504	3670.3631	55.	0.944
27235.289	3670.6615	73.	0.944
27233.607	3670.8883	23.	0.708
27231.717	3671.1431	31.	0.943
27229.540	3671.4365	37.	0.943
27227.496	3671.7122	48.	1.768
27225.434	3671.9903	44.	0.823
27223.423	3672.2616	35.	1.298
27221.587	3672.5092	25.	0.471
27220.356	3672.6753	41.	0.823
27218.136	3672.9750	34.	0.707
27216.922	3673.1388	23.	0.707
27214.759	3673.4306	39.	1.061
27213.432	3673.6098	39.	0.583
27211.822	3673.8271	92.	1.051
27208.476	3674.2790	32.	0.701

9,1P4
6,0R10
13,2R10

6,0P9
13,2P9;9,1R6

9,1P5

5,0R3
7,0R15

9,1R7

6,0R11
13,2R11

5,0R4
9,1P6
7,0P14

5,0P3

6,0P10

5,0R5

9,1R8
5,0P4

9,1P7

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
27237.058	3674.4705	33.	0.706	
27205.405	3674.6937	34.	0.706	
27203.634	3674.9330	22.	0.471	
27202.294	3675.1140	65.	0.823	
27200.868	3675.3067	31.	0.706	
27198.763	3675.5912	22.	0.705	
27197.176	3675.8056	31.	0.705	5,OR6
27195.692	3676.0062	15.	0.588	
27194.358	3676.1865	50.	0.588	13,2R12
27193.074	3676.3601	57.	0.823	6,OR12
27191.578	3676.5624	22.	0.705	
27189.527	3676.8397	28.	0.587	12,2R5
27187.992	3677.0473	26.	1.292	5,OP5
27185.659	3677.3629	54.	0.822	7,OR16
27183.710	3677.6265	24.	0.705	
27181.970	3677.8619	41.	0.704	
27179.959	3678.1341	69.	0.939	
27177.959	3678.4047	111.	0.822	13,2P11;9,1R9
27176.725	3678.5718	52.	0.587	6,OP11
27175.718	3678.7081	23.	0.587	
27172.798	3679.1034	16.	0.704	
27171.342	3679.3006	15.	0.821	
27169.715	3679.5209	13.	0.586	
27166.920	3679.8994	31.	1.055	
27165.374	3680.1089	59.	0.703	7,OP15
27163.942	3680.3029	32.	0.938	9,1P8;5,OR7
27162.486	3680.5002	40.	0.821	12,2R6
27161.120	3680.6853	15.	0.469	
27160.216	3680.8078	16.	0.469	
27159.236	3680.9339	16.	0.469	
27158.194	3681.0818	15.	0.469	
27157.303	3681.2027	16.	0.703	
27155.524	3681.4439	22.	0.469	
27154.423	3681.5931	74.	0.586	
27153.453	3681.7247	50.	0.703	12,2P5;5,OP6
27151.604	3681.9753	47.	0.820	
27149.689	3682.2351	22.	0.703	
27148.223	3682.4339	24.	0.820	
27145.489	3682.8048	17.	0.702	
27143.626	3683.0576	21.	0.702	
27141.229	3683.3828	46.	1.287	
27138.773	3683.7162	14.	0.585	
27137.073	3683.9470	15.	0.585	
27135.892	3684.1073	18.	0.585	
27134.715	3684.2671	14.	0.702	
27132.601	3684.5542	58.	1.052	13,2R13
27130.382	3684.8556	69.	1.520	12,2R7;9,1R10
27128.415	3685.1227	47.	0.815	6,OR13
27126.761	3685.3474	14.	0.584	
27124.867	3685.6048	34.	0.584	5,OR8
27123.845	3685.7436	37.	0.584	
27122.402	3685.9397	42.	1.402	
27120.360	3686.2173	28.	0.818	12,2P6
27118.891	3686.4169	51.	0.817	
27116.261	3686.7745	22.	0.467	
27115.097	3686.9328	63.	0.817	13,2P12;9,1P9
27113.356	3687.1695	40.	0.584	5,OP7
27112.173	3687.3304	55.	0.584	
27110.950	3687.4967	70.	0.817	6,OP12
27109.214	3687.7330	50.	0.817	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
27107.767	3587.9297	15.	0.700
27105.335	3583.2506	13.	0.583
27104.071	3588.4326	18.	0.583
27102.810	3583.6043	55.	0.816
27100.855	3588.8704	50.	0.816
27099.474	3589.0584	24.	0.700
27098.300	3589.2182	25.	0.699
27096.590	3589.4511	18.	0.699
27094.086	3589.7921	49.	0.816
27091.848	3590.0969	22.	0.599
27088.689	3590.5272	61.	1.165
27085.681	3590.9370	27.	2.096
27083.650	3591.2138	25.	0.815
27082.067	3591.4296	33.	0.698
27080.868	3591.5931	31.	0.466
27079.653	3591.7586	133.	0.931
27078.067	3591.9749	25.	0.582
27077.203	3592.0927	49.	0.698
27074.717	3592.4318	14.	0.814
27073.474	3592.6013	12.	0.465
27071.945	3592.8098	18.	0.698
27069.938	3593.0836	14.	1.163
27067.978	3593.3510	34.	0.930
27065.945	3593.6285	47.	1.395
27064.158	3593.8723	43.	0.581
27063.166	3594.0077	40.	0.581
27061.070	3594.2939	50.	0.813
27058.676	3594.6207	40.	0.697
27056.954	3594.8558	17.	0.929
27055.659	3595.0327	16.	0.465
27054.577	3595.1805	29.	0.813
27052.220	3595.5025	48.	0.813
27050.775	3595.6998	27.	0.697
27048.839	3595.9643	32.	0.697
27047.723	3596.1169	35.	0.580
27046.417	3596.2953	41.	0.612
27044.444	3596.5651	22.	0.696
27042.439	3596.8392	23.	0.612
27040.192	3597.1463	121.	0.812
27038.939	3597.3177	31.	0.580
27037.586	3597.5027	22.	0.812
27036.110	3597.7046	21.	0.696
27034.110	3597.9782	29.	0.812
27031.709	3598.3066	53.	0.811
27030.464	3598.4769	19.	0.464
27028.708	3598.7172	13.	0.927
27026.568	3599.0101	38.	0.695
27025.535	3599.1515	29.	0.579
27024.473	3599.2969	18.	0.463
27023.342	3599.4517	16.	0.695
27022.007	3599.6345	22.	0.811
27019.604	3599.9636	44.	0.695
27018.616	3700.0988	39.	0.579
27017.295	3700.2797	30.	0.810
27015.423	3700.5361	15.	0.926
27010.915	3701.1538	50.	1.504
27009.408	3701.3603	19.	0.578
27007.735	3701.5895	21.	0.925
27005.743	3701.8626	53.	0.575
27004.623	3702.0152	41.	0.810

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8,1R2

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5,OP8

12,2R14;8,1R3

9,1P10

6,OR14

12,2R9

8,1R4

13,2P13

8,1P3

6,OP13

12,2P8

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8,1R5

9,1R12

8,1P4

5,OP9

7,OR18

12,2R10

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
27002.013	3702.3741	40.	0.694	9,1P11
27000.728	3702.5502	15.	0.694	
26998.877	3702.8041	57.	1.387	8,1R6
26995.120	3703.3193	31.	0.693	13,2R15
26992.477	3703.6820	13.	0.578	
26990.992	3703.8857	30.	0.693	12,2P9
26989.377	3704.1075	63.	1.270	8,1P5;7,0P17
26986.691	3704.4761	37.	1.155	
26984.391	3704.7919	54.	1.847	6,0R15
26982.144	3705.1004	44.	0.808	
26980.784	3705.2872	23.	0.577	
26978.785	3705.5617	23.	0.923	
26977.022	3705.8039	33.	0.808	5,0R11
26975.149	3706.0612	73.	1.269	13,2P14
26973.558	3706.2799	18.	0.577	
26972.094	3706.4810	26.	0.807	
26969.258	3706.8708	18.	0.461	
26968.220	3707.0134	33.	0.692	
26966.597	3707.2365	59.	0.922	8,1R7
26964.315	3707.5503	46.	0.922	6,0P14
26961.897	3707.8828	43.	0.807	5,0P10
26960.517	3708.0726	48.	0.806	
26958.013	3708.4171	24.	0.691	
26956.849	3708.5772	55.	0.691	9,1R13
26955.630	3708.7450	64.	0.806	8,1P6
26954.068	3708.9598	35.	0.806	12,2R11
26951.722	3709.2827	29.	0.921	
26949.404	3709.6018	54.	0.921	
26947.076	3709.9222	27.	0.575	
26945.753	3710.1043	56.	0.690	
26944.578	3710.2661	18.	0.575	
26942.743	3710.5189	16.	0.575	
26941.565	3710.6812	28.	0.805	
26939.845	3710.9181	23.	0.805	
26938.084	3711.1606	76.	0.920	12,2P10;9,1P12
26936.117	3711.4216	13.	0.690	
26934.646	3711.6343	35.	0.690	
26933.354	3711.8124	21.	0.575	
26931.376	3712.0850	25.	0.804	
26929.365	3712.3622	68.	1.264	8,1R8
26927.075	3712.6779	28.	0.804	
26925.485	3712.8972	23.	0.574	
26924.061	3713.0936	55.	1.263	
26921.393	3713.4615	50.	0.919	
26919.260	3713.7558	33.	0.689	13,2R16
26917.670	3713.9752	27.	0.459	5,0R12
26916.613	3714.1211	68.	0.689	8,1P7
26915.370	3714.2925	14.	0.459	7,0R19
26913.033	3714.6151	23.	0.688	
26910.893	3714.9105	19.	0.913	
26908.826	3715.1958	13.	0.688	
26906.603	3715.5029	18.	0.917	
26904.060	3715.8540	35.	0.917	6,0R16
26902.325	3716.0938	24.	0.688	
26901.136	3716.2580	34.	0.573	5,0P11
26899.919	3716.4261	39.	0.573	
26898.452	3716.6011	31.	0.573	13,2P15
26897.578	3716.7496	48.	0.688	12,2R12
26895.937	3716.9763	21.	0.687	
26893.845	3717.2655	54.	0.802	7,0P18

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
26892.522	3717.4484	14.	0.458
26891.224	3717.6277	32.	0.916
26889.430	3717.8758	80.	1.031
26887.910	3718.0859	18.	0.458
26886.712	3718.2517	63.	0.587
26885.700	3718.3917	25.	0.458
26883.598	3718.6824	58.	0.801
26881.792	3718.9322	21.	0.572
26880.342	3719.1329	35.	1.030
26878.236	3719.4243	22.	0.458
26877.326	3719.5502	24.	0.458
26876.036	3719.7286	56.	0.915
26874.431	3719.9509	631.	1.144
26872.764	3720.1816	69.	0.686
26871.051	3720.4187	28.	0.800
26869.363	3720.6525	66.	0.800
26867.351	3720.9312	83.	1.486
26865.227	3721.2254	72.	1.257
26863.725	3721.4334	38.	0.571
26862.417	3721.6146	59.	0.585
26861.311	3721.7679	32.	0.457
26860.013	3721.9477	26.	0.914
26857.454	3722.3024	24.	1.142
26855.566	3722.5640	125.	1.256
26852.673	3722.9652	50.	1.141
26849.606	3723.3904	17.	0.585
26848.333	3723.5669	17.	0.585
26845.612	3723.9444	32.	0.584
26843.611	3724.2219	25.	0.570
26842.486	3724.3780	31.	0.584
26840.995	3724.5850	44.	1.140
26839.067	3724.8525	121.	0.912
26837.966	3725.0054	29.	0.456
26836.587	3725.1968	38.	0.584
26835.287	3725.3773	65.	0.798
26833.151	3725.6738	32.	0.798
26830.938	3725.9810	18.	0.570
26828.647	3726.2993	55.	0.583
26827.552	3726.4513	34.	0.583
26825.717	3726.7062	12.	0.456
26824.320	3726.9003	52.	1.139
26822.512	3727.1516	137.	1.480
26820.733	3727.3988	13.	0.455
26819.270	3727.6021	123.	0.910
26817.953	3727.7852	45.	0.569
26816.957	3727.9236	113.	0.797
26815.779	3728.0875	29.	0.583
26814.142	3728.3151	15.	0.455
26812.992	3728.4750	24.	0.796
26811.663	3728.6598	14.	0.455
26810.257	3728.8552	32.	0.796
26808.869	3729.0484	25.	0.682
26806.590	3729.3654	16.	0.910
26804.941	3729.5949	21.	0.796
26803.508	3729.7943	12.	0.568
26801.538	3730.0684	15.	0.682
26800.295	3730.2414	24.	0.568
26798.239	3730.5276	83.	0.909
26796.709	3730.7406	49.	0.582
26795.609	3730.8938	53.	0.795

9,1R14

8,1R9

6,0P15

12,2P11

8,1P8

9,1P13

5,0R13

8,1R10

13,2R17

12,2R13

5,0P12

8,1P9

6,0R17

12,2P12

13,2P16;9,1R15

7,0R20

6,0P16

9,1P14

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
26793.831	3731.1414	53.	0.908	7,0P19
26792.302	3731.3543	21.	0.681	
26790.222	3731.6440	33.	0.681	7,1R2
26788.928	3731.8243	24.	0.681	
26786.574	3732.1522	23.	0.908	8,1R11
26784.947	3732.3789	50.	0.681	
26784.045	3732.5046	33.	0.454	
26783.031	3732.6460	30.	0.681	5,0R14
26781.774	3732.8211	13.	0.454	
26780.558	3732.9893	20.	0.681	
26778.251	3733.3122	149.	1.248	7,1R3
26775.864	3733.6450	41.	1.134	
26772.993	3734.0455	25.	1.360	7,1P2
26770.718	3734.3628	78.	0.793	12,2R14
26769.830	3734.4866	63.	0.567	8,1P10
26768.423	3734.6829	49.	0.680	
26766.868	3734.8939	142.	1.246	
26764.760	3735.1941	50.	0.680	5,0P13
26763.813	3735.3263	47.	0.680	
26762.088	3735.5670	29.	0.453	
26761.099	3735.7051	50.	0.679	7,1R4
26759.121	3735.9812	38.	0.793	
26757.549	3736.2008	15.	0.566	
26756.419	3736.3585	13.	0.566	
26754.958	3736.5625	45.	1.019	7,1P3
26753.487	3736.7680	38.	0.792	13,2R18
26751.338	3737.0682	328.	2.150	
26749.278	3737.3559	34.	0.566	
26747.996	3737.5352	25.	0.566	
26746.480	3737.7469	35.	0.679	
26744.662	3738.0011	21.	0.565	
26742.508	3738.3021	29.	0.678	
26741.022	3738.5098	39.	0.904	
26739.202	3738.7643	89.	1.582	9,1R16;7,1R5
26736.743	3739.1082	16.	0.678	
26735.568	3739.2726	12.	0.452	
26733.969	3739.4962	29.	0.791	
26730.909	3739.9242	76.	0.791	13,2P17;7,1P4
26729.144	3740.1712	86.	1.355	8,1R12;6,0R18
26727.632	3740.3828	23.	0.452	
26726.586	3740.5292	23.	0.565	
26724.807	3740.7782	25.	0.790	
26722.781	3741.0619	23.	1.016	
26718.731	3741.6290	31.	0.677	
26717.412	3741.8136	52.	0.677	9,1P15
26716.070	3742.0017	36.	0.790	
26714.293	3742.2506	16.	0.564	
26713.029	3742.4276	39.	0.677	
26711.780	3742.6027	63.	0.564	7,1R6;7,0R21
26710.886	3742.7279	76.	0.676	8,1P11
26708.905	3743.0055	42.	1.240	5,0R15
26707.485	3743.2045	74.	0.564	6,0P17
26706.412	3743.3549	44.	0.451	
26705.732	3743.4502	36.	0.451	
26704.751	3743.5877	33.	0.563	
26702.162	3743.9508	107.	0.901	7,1P5
26699.845	3744.2757	48.	0.788	12,2R15
26698.262	3744.4977	27.	0.576	
26695.876	3744.8324	58.	1.126	
26694.219	3745.0648	32.	0.450	

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
26653.303	3745.1933	43.	0.450
26692.100	3745.2621	65.	0.575
26690.522	3745.5695	131.	0.900
26688.577	3745.8565	125.	1.585
26685.493	3746.2894	14.	0.563
26683.171	3746.6154	38.	0.787
26681.842	3746.8021	45.	0.562
26679.308	3747.1579	96.	1.462
26676.809	3747.5090	23.	0.574
26674.278	3747.8646	57.	0.787
26671.208	3748.2959	115.	1.798
26668.143	3748.7267	73.	0.786
26666.571	3748.9478	118.	0.785
26665.433	3749.1078	33.	0.449
26663.955	3749.3156	54.	0.561
26662.723	3749.4888	112.	1.011
26660.407	3749.8146	28.	0.574
26658.932	3750.0221	28.	0.561
26657.601	3750.2093	139.	1.459
26654.829	3750.5993	13.	0.673
26652.709	3750.8977	14.	0.561
26650.918	3751.1497	38.	1.458
26648.896	3751.4344	56.	1.453
26647.162	3751.6785	91.	0.785
26645.865	3751.8611	13.	0.448
26644.185	3752.0977	35.	1.121
26641.997	3752.4058	95.	0.785
26640.389	3752.6323	67.	1.009
26638.735	3752.9639	14.	0.572
26636.886	3753.1258	21.	0.560
26634.729	3753.4298	100.	1.344
26632.893	3753.6885	67.	1.008
26631.345	3753.9068	12.	0.560
26629.271	3754.1992	83.	0.572
26628.063	3754.3694	38.	0.896
26624.419	3754.8833	45.	0.895
26623.030	3755.0793	26.	0.559
26622.012	3755.2228	14.	0.448
26620.923	3755.3765	24.	0.783
26619.247	3755.6129	12.	0.571
26616.141	3756.0511	27.	0.571
26614.902	3756.2260	22.	0.571
26612.221	3756.6044	58.	0.894
26610.438	3756.8561	26.	0.571
26609.269	3757.0212	36.	0.571
26607.569	3757.2612	53.	1.341
26604.172	3757.7410	39.	0.782
26602.437	3757.9861	49.	0.558
26600.903	3758.2028	85.	1.117
26599.212	3758.4417	166.	1.005
26595.813	3758.9221	14.	0.558
26594.571	3759.0977	44.	0.781
26592.816	3759.3457	21.	0.781
26590.838	3759.6253	25.	1.004
26587.546	3760.0484	43.	0.781
26586.345	3760.2607	24.	0.446
26585.282	3760.4111	71.	0.569
26584.430	3760.5317	36.	0.446
26583.205	3760.7050	46.	0.781
26581.004	3761.0164	33.	0.569

7,0P20;5,0P14

7,1R7

7,1P6

8,1R13

13,2R19

9,1R17

8,1P12

7,1R8

13,2P18

9,1P16;6,0R19

7,1P7

5,0R16

12,2R16

6,0P18

6,0P15

12,2P15;7,0R22

R,1R14;7,1R9

7,1P8

(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
26579.740	3761.1952	59.	0.669	7,0P21
26578.555	3761.3629	75.	0.557	8,1P13
26575.663	3761.7722	40.	0.780	
26573.339	3762.1012	52.	0.780	
26572.315	3762.2462	21.	0.446	
26570.838	3762.4553	75.	0.780	9,1R18
26569.427	3762.6552	56.	0.780	13,2R20
26567.750	3762.8926	32.	1.114	
26564.917	3763.2940	14.	0.445	
26563.895	3763.4387	37.	0.779	
26561.377	3763.7955	44.	1.113	
26559.201	3764.1038	12.	0.445	
26558.119	3764.2572	27.	0.668	
26555.801	3764.5858	15.	0.556	
26554.836	3764.7227	28.	0.779	
26553.256	3764.9467	24.	0.445	
26551.829	3765.1491	84.	1.334	7,1R10
26550.050	3765.4013	40.	0.667	
26548.930	3765.5602	56.	0.667	
26547.047	3765.8273	114.	1.778	9,1P17
26545.242	3766.0834	66.	0.556	13,2P19
26543.924	3766.2703	135.	1.222	12,2R17;5,0R17
26542.557	3766.4643	28.	0.444	
26540.592	3766.7431	64.	0.667	
26538.940	3766.9777	87.	0.666	
26537.467	3767.1867	72.	0.555	
26536.382	3767.3408	263.	0.666	7,1P9
26535.208	3767.5074	84.	0.666	6,0R20
26533.941	3767.6874	64.	0.555	
26532.839	3767.8438	25.	0.555	
26531.355	3768.0547	24.	0.666	
26529.799	3768.2756	30.	0.777	
26528.207	3768.5018	34.	0.777	
26526.922	3768.6843	149.	0.777	8,1R15
26525.397	3768.9011	67.	0.888	
26524.335	3769.0519	62.	0.666	
26522.437	3769.3216	35.	0.666	5,0P16
26521.119	3769.5089	51.	0.776	12,2P16
26519.688	3769.7124	15.	0.776	
26516.597	3770.1519	35.	1.663	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
26507.458	3771.4517	20.	0.434	8,1P14
26505.237	3771.7677	45.	0.759	
26504.233	3771.9106	24.	0.433	
26502.220	3772.1117	22.	0.542	7,1R11
26501.839	3772.2513	25.	0.542	
26500.623	3772.4244	38.	0.433	
26499.515	3772.5822	160.	1.083	6,1R3
26497.740	3772.8349	23.	0.433	
26496.650	3772.9901	45.	0.433	
26495.670	3773.1296	108.	0.650	6,1P2
26493.873	3773.3856	35.	0.974	
26492.142	3773.6322	42.	1.082	
26490.664	3773.8426	122.	0.649	7,1P10
26489.377	3774.0261	48.	0.541	
26488.257	3774.1856	37.	0.541	
26487.038	3774.3593	58.	0.866	9,1R19;6,1R4
26485.390	3774.5942	43.	0.649	
26482.551	3774.9988	458.	1.082	
26479.040	3775.4994	150.	1.514	6,1P3
26476.952	3775.7971	20.	0.432	
26474.366	3776.0804	64.	0.757	
26472.243	3776.4688	73.	0.864	12,2R18
26470.657	3776.6908	48.	0.756	
26467.625	3777.1277	147.	0.972	
26465.737	3777.3973	54.	0.864	6,1R5
26464.154	3777.6232	27.	0.864	
26462.313	3777.8860	29.	0.540	
26461.153	3778.0515	36.	0.648	9,1P18;5,0R18
26459.387	3778.3037	50.	1.295	
26457.235	3778.5254	21.	0.432	
26456.618	3778.6992	97.	0.755	8,1R16
26454.058	3779.0648	124.	1.079	
26452.581	3779.2760	32.	0.539	
26451.165	3779.4783	26.	0.539	6,1P4
26449.877	3779.6623	131.	0.863	
26448.323	3779.8843	68.	0.755	
26445.720	3780.2565	54.	0.755	13,2P20
26444.231	3780.4692	37.	0.862	
26442.317	3780.7429	163.	0.754	
26441.285	3780.8905	52.	0.431	7,1R12
26439.968	3781.0789	37.	0.646	
26439.123	3781.1997	25.	0.431	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
26437.544	3781.4256	36.	0.754	
26435.853	3781.6674	56.	1.292	12,2P17
26433.325	3782.0290	35.	0.646	
26431.395	3782.3052	58.	1.292	
26429.429	3782.5866	124.	0.861	6,1R6
26428.018	3782.7886	43.	0.431	
26427.005	3782.9335	120.	0.753	8,1P15
26425.471	3783.1532	22.	0.538	
26423.823	3783.3891	127.	0.753	7,1P11
26422.640	3783.5585	28.	0.538	
26420.769	3783.8265	49.	0.860	
26419.469	3784.0127	77.	0.753	6,1P5
26418.004	3784.2225	14.	0.538	
26416.259	3784.4725	35.	0.645	
26414.797	3784.6819	51.	0.645	
26412.771	3784.9723	70.	0.860	
26410.534	3785.2929	12.	0.645	
26407.625	3785.7099	71.	1.612	6,0P20
26405.926	3785.9535	66.	0.537	
26404.590	3786.1450	42.	0.752	
26402.891	3786.3886	55.	0.644	
26400.876	3786.6776	38.	0.644	
26398.754	3786.9820	31.	0.751	
26397.044	3787.2273	136.	0.966	6,1R7
26394.100	3787.6497	47.	0.751	
26392.527	3787.8756	133.	0.858	
26390.815	3788.1213	33.	0.644	
26388.075	3788.5146	34.	0.643	
26385.741	3788.8498	117.	0.965	6,1P6
26383.731	3789.2389	150.	1.501	9,1R20
26379.919	3789.6860	179.	0.750	7,1R13
26377.088	3790.0928	74.	0.750	
26374.951	3790.3998	37.	1.393	
26373.507	3790.6074	24.	0.428	
26372.408	3790.7653	41.	0.857	
26370.486	3791.0416	45.	0.750	12,2R19
26368.086	3791.3867	153.	0.964	8,1R17
26365.918	3791.6985	25.	0.642	
26364.540	3791.8967	27.	0.642	
26363.198	3792.0897	53.	0.856	
26361.969	3792.2665	36.	0.535	
26360.034	3792.5448	262.	1.177	7,1P12;6,1R8
26357.608	3792.8939	118.	1.070	9,1P19
26356.212	3793.0949	40.	0.535	
26355.000	3793.2693	36.	0.642	
26353.279	3793.5170	38.	0.855	
26352.131	3793.6823	37.	0.535	
26350.532	3793.9125	40.	0.962	
26348.794	3794.1628	49.	0.641	
26347.201	3794.3921	160.	1.389	6,1P7
26345.512	3794.6354	106.	0.641	12,2P18
26344.268	3794.8146	282.	0.641	8,1P16
26342.374	3795.0874	915.	1.816	13,2P21
26339.778	3795.4615	72.	0.641	
26337.967	3795.7225	62.	0.854	
26336.295	3795.9634	68.	0.747	
26334.363	3796.2419	34.	0.747	
26332.378	3796.5281	25.	0.854	
26330.799	3796.7558	74.	0.640	
26329.399	3796.9576	70.	0.960	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)
26327.668	3797.2073	29.	0.533
26325.561	3797.5113	78.	0.640
26324.269	3797.6976	21.	0.533
26322.453	3797.9597	40.	0.640
26320.667	3798.2174	43.	1.173
26318.684	3798.5035	150.	0.640
26317.398	3798.6891	171.	0.746
26315.818	3798.9173	14.	0.426
26314.464	3799.1128	25.	0.533
26312.985	3799.3262	179.	1.172
26311.414	3799.5532	183.	0.746
26309.014	3799.8997	31.	1.278
26306.428	3800.2733	75.	0.745
26305.380	3800.4248	25.	0.426
26303.024	3800.7651	139.	0.851
26301.147	3801.0364	25.	0.532
26299.884	3801.2190	22.	0.638
26298.216	3801.4601	49.	0.745
26296.754	3801.6714	29.	0.532
26295.595	3801.8389	47.	0.638
26294.333	3802.0214	36.	0.638
26293.020	3802.2112	14.	0.425
26291.593	3802.4177	171.	1.170
26289.128	3802.7742	13.	0.744
26287.462	3803.0152	44.	1.275
26285.832	3803.2511	22.	0.633
26284.435	3803.4532	29.	0.638
26282.761	3803.6954	103.	0.637
26281.554	3803.8702	141.	0.637
26277.852	3804.4060	22.	0.425
26276.789	3804.5599	51.	0.637
26275.875	3804.6922	32.	0.531
26274.582	3804.8794	24.	0.637
26273.535	3805.0311	22.	0.637
26272.594	3805.1674	15.	0.425
26271.429	3805.3362	113.	0.743
26270.066	3805.5336	147.	0.743
26268.777	3805.7204	15.	0.531
26267.165	3805.9539	15.	0.530
26265.378	3806.2128	24.	0.530
26264.272	3806.3731	33.	0.530
26262.810	3806.5850	52.	0.530
26261.755	3806.7330	79.	1.060
26260.274	3806.9527	37.	0.530
26259.233	3807.1036	47.	0.424
26258.375	3807.2279	52.	0.636
26256.778	3807.4596	105.	0.742
26255.740	3807.6100	89.	0.954
26254.136	3807.8427	156.	0.742
26252.104	3808.1374	31.	0.530
26251.031	3808.2931	111.	0.530
26250.011	3808.4411	48.	0.424
26249.009	3808.5865	28.	0.530
26248.100	3808.7184	29.	0.530
26245.717	3809.0643	33.	0.741
26243.502	3809.3857	87.	0.847
26242.062	3809.5948	23.	0.741
26240.606	3809.8062	163.	0.953
26238.661	3810.0885	39.	0.741
26237.370	3810.2760	41.	0.529

6,1R9

7,1R14

6,1P8

6,0P21

7,1P13

9,1R21

8,1R18

12,2R20

6,1R10

9,1P20;8,1P17

6,1P9

12,2P19

7,1R15

5,1R1

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
26236.301	3810.4312	42.	0.529	
26235.085	3810.6079	23.	0.635	
26233.510	3810.8367	43.	1.269	
26231.861	3811.0763	44.	0.635	
26229.584	3811.4071	27.	0.529	5,1R2
26228.440	3811.5733	22.	0.529	5,1P1
26225.845	3811.9505	58.	1.268	
26224.471	3812.1502	42.	0.528	
26223.236	3812.3298	25.	0.634	
26221.651	3812.5602	21.	1.057	
26220.052	3812.7927	50.	0.528	5,1R3
26218.831	3812.9704	563.	0.845	7,1P14
26217.534	3813.1589	139.	0.845	6,1R11
26215.947	3813.3898	61.	0.634	
26214.863	3813.5475	36.	0.634	5,1P2
26213.659	3813.7226	21.	0.634	
26211.882	3813.9812	13.	1.900	
26208.960	3814.4064	28.	0.528	
26208.112	3814.5299	48.	0.739	
26206.166	3814.8131	33.	0.739	
26204.702	3815.0262	14.	0.950	
26202.969	3815.2786	95.	0.844	5,1R4
26200.507	3815.6371	136.	0.738	6,1P10
26198.855	3815.8777	8320.	1.371	
26196.215	3816.2622	44.	0.949	5,1P3
26194.811	3816.4667	30.	0.527	
26193.718	3816.6260	15.	0.527	
26192.527	3816.7996	21.	0.632	
26190.433	3817.1048	133.	0.843	8,1R19
26188.337	3817.4103	13.	0.527	
26187.110	3817.5891	15.	1.053	
26185.468	3817.8285	14.	0.527	
26184.080	3818.0309	65.	1.053	
26182.572	3818.2508	15.	0.421	
26180.937	3818.4893	82.	1.158	5,1R5
26178.798	3818.8012	34.	0.526	12,2R21
26177.534	3818.9857	86.	0.737	9,1R22
26174.188	3819.4739	35.	1.263	
26172.494	3819.7211	55.	0.736	5,1P4
26170.878	3819.9570	21.	0.526	
26169.700	3820.1289	27.	0.526	
26167.612	3820.4337	8320.	1.472	
26166.000	3820.6692	33.	0.526	
26164.732	3820.8542	110.	0.631	8,1P18
26163.698	3821.0053	210.	0.631	8,1R16
26162.481	3821.1831	150.	0.631	
26160.425	3821.4833	150.	0.841	6,1R12
26158.953	3821.6984	38.	0.630	
26157.876	3821.8557	33.	0.630	
26156.014	3822.1279	26.	0.525	
26154.925	3822.2870	33.	0.630	
26153.679	3822.4690	81.	0.735	5,1R6
26151.929	3822.7249	44.	0.735	12,2P20
26150.071	3822.9965	110.	0.840	9,1P21
26148.561	3823.2173	30.	0.630	
26146.489	3823.5202	29.	0.630	
26145.368	3823.6842	14.	0.525	
26143.720	3823.9252	80.	0.839	5,1P5
26141.833	3824.2013	115.	0.629	6,1P11
26140.129	3824.4506	8320.	1.259	7,1P15

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
26138.531	3824.6544	22.	0.524
26136.047	3825.0479	33.	1.363
26132.961	3825.4996	21.	0.629
26131.642	3825.6926	36.	0.524
26130.179	3825.9069	8320.	1.572
26127.737	3826.2645	15.	1.153
26124.822	3826.6914	65.	0.733
26122.832	3826.9829	28.	0.628
26121.461	3827.1839	153.	0.838
26118.682	3827.5911	44.	0.733
26117.117	3827.8205	8320.	1.151
26115.289	3828.0884	49.	0.733
26114.152	3828.2551	15.	0.523
26112.456	3828.5037	15.	1.360
26110.722	3828.7580	24.	0.418
26109.929	3828.8742	77.	0.732
26108.109	3829.1411	16.	0.837
26106.053	3829.4427	37.	0.627
26105.223	3829.5645	28.	0.523
26103.974	3829.7476	54.	0.627
26102.256	3829.9998	22.	1.045
26099.811	3830.3586	14.	0.627
26098.272	3830.5845	183.	0.731
26096.704	3830.8146	58.	0.836
26094.560	3831.1294	117.	0.836
26093.380	3831.3026	16.	0.418
26090.644	3831.7044	32.	0.835
26089.141	3831.9252	28.	0.835
26087.491	3832.1674	28.	0.626
26086.070	3832.3763	14.	1.148
26084.174	3832.6548	99.	0.939
26082.153	3832.9519	144.	0.835
26079.746	3833.3056	33.	0.626
26078.272	3833.5222	139.	0.834
26076.600	3833.7680	39.	0.730
26074.977	3834.0066	25.	0.521
26073.583	3834.2116	8320.	1.147
26071.052	3834.5839	98.	0.834
26069.509	3834.8110	14.	0.521
26067.913	3835.0456	262.	1.146
26065.764	3835.3619	30.	0.729
26063.563	3835.6858	136.	1.667
26061.228	3836.0294	13.	0.521
26059.237	3836.3225	36.	0.521
26057.795	3836.5348	153.	0.937
26054.830	3836.9715	17.	1.145
26051.834	3837.4127	15.	0.416
26050.549	3837.6020	33.	1.145
26048.730	3837.8700	51.	1.040
26047.106	3838.1093	21.	0.520
26045.653	3838.3234	24.	0.728
26044.551	3838.4858	15.	0.416
26043.336	3838.6649	29.	0.728
26041.769	3838.8959	91.	0.936
26039.687	3839.2028	81.	1.351
26037.615	3839.5084	14.	0.727
26035.451	3839.8275	28.	1.247
26033.858	3840.0625	28.	0.623
26032.607	3840.2470	28.	0.519
26031.230	3840.4502	349.	1.142

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6,1R13

8,1R20

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12,2R22

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ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
26029.770	3840.6655	27.	0.519
26027.196	3841.0453	523.	1.142
26025.324	3841.3217	15.	0.523
26022.131	3841.7931	27.	0.830
26020.549	3842.0119	13.	0.623
26019.327	3842.2071	17.	0.726
26017.268	3842.5112	23.	0.934
26015.624	3842.7539	22.	0.830
26013.482	3843.0704	26.	0.622
26012.283	3843.2476	53.	0.622
26011.265	3843.3980	31.	0.622
26009.794	3843.6153	122.	0.829
26007.350	3843.9765	31.	0.725
26006.097	3844.1618	22.	0.518
26005.141	3844.3031	30.	0.414
26004.297	3844.4278	33.	0.622
26001.886	3844.7843	56.	0.622
26000.662	3844.9652	23.	0.621
25999.319	3845.1639	16.	0.518
25997.534	3845.4279	14.	1.139
25995.820	3845.6815	110.	0.828
25994.316	3845.9040	183.	0.932
25993.089	3846.0856	17.	0.414
25991.218	3846.3625	22.	0.931
25989.556	3846.6084	14.	0.621
25988.284	3846.7967	50.	0.724
25986.041	3847.1258	13.	0.931
25984.212	3847.3996	17.	0.827
25981.655	3847.7782	13.	0.517
25980.427	3847.9600	18.	0.724
25978.678	3848.2191	92.	1.344
25975.373	3848.7038	38.	0.827
25972.987	3849.0624	51.	1.550
25970.312	3849.4588	141.	2.066
25967.981	3849.8044	28.	0.516
25966.852	3849.9717	216.	0.826
25965.667	3850.1474	29.	0.515
25964.255	3850.3569	46.	0.826
25962.574	3850.6062	12.	0.826
25961.135	3850.8196	54.	0.722
25959.102	3851.1211	120.	0.929
25957.744	3851.3226	22.	0.516
25956.698	3851.4779	32.	0.519
25953.945	3851.8864	74.	0.825
25952.064	3852.1657	41.	1.237
25949.539	3852.5405	38.	0.722
25947.028	3852.9133	41.	0.825
25945.947	3853.0737	23.	0.412
25944.851	3853.2365	13.	0.515
25943.021	3853.5083	28.	0.515
25942.149	3853.6378	97.	0.618
25941.054	3853.8006	33.	0.515
25939.338	3854.0555	13.	0.412
25938.282	3854.2125	21.	0.721
25936.698	3854.4478	147.	0.927
25935.287	3854.6575	43.	0.618
25934.206	3854.8182	22.	0.412
25933.494	3854.9241	23.	0.515
25931.490	3855.2219	28.	0.823
25929.973	3855.4476	22.	0.617

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6,1P13

7,1R18
8,1R21;5,1R10

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6,1R15

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5,1R11

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6,1P14

4,1R4

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
25928.601	3855.6516	35.	0.823
25927.052	3855.8818	24.	0.617
25925.141	3856.1662	111.	1.132
25923.601	3856.3952	198.	0.926
25921.708	3856.6768	13.	0.617
25919.781	3856.9635	29.	0.720
25918.546	3857.1473	12.	0.514
25916.577	3857.4405	21.	0.719
25915.015	3857.6729	15.	0.719
25912.738	3858.0118	47.	1.747
25910.627	3858.3262	12.	1.130
25908.034	3858.7123	27.	0.719
25907.054	3858.8584	15.	0.411
25906.086	3859.0026	14.	0.411
25904.730	3859.2046	272.	0.324
25903.022	3859.4590	21.	0.821
25901.216	3859.7281	58.	0.513
25899.490	3859.9854	1830.	1.950
25897.525	3860.2783	29.	0.616
25896.122	3860.4874	38.	0.616
25894.705	3860.6986	18.	0.513
25893.498	3860.8787	16.	0.718
25890.479	3861.3289	21.	0.513
25889.213	3861.5177	93.	0.820
25887.644	3861.7518	13.	0.513
25886.173	3861.9712	62.	0.923
25884.674	3862.1948	115.	0.922
25882.231	3862.5594	163.	1.025
25880.026	3862.8885	23.	0.512
25878.406	3863.1303	127.	0.819
25876.061	3863.4804	57.	0.819
25874.653	3863.6907	59.	0.717
25873.099	3863.9227	42.	0.819
25871.789	3864.1183	31.	0.614
25869.614	3864.4432	15.	0.409
25868.432	3864.6198	36.	0.716
25867.501	3864.7590	29.	0.512
25866.116	3864.9659	120.	0.619
25864.887	3865.1495	24.	0.409
25863.555	3865.3486	22.	0.409
25862.437	3865.5157	113.	0.614
25861.090	3865.7171	118.	0.818
25858.391	3866.1206	160.	1.534
25856.545	3866.3966	33.	0.511
25855.463	3866.5583	33.	0.613
25853.687	3866.8240	31.	0.818
25851.107	3867.2100	57.	0.613
25849.513	3867.4484	27.	0.613
25847.829	3867.7003	27.	0.511
25845.954	3867.9809	64.	0.613
25844.951	3868.1311	36.	0.511
25843.265	3868.3834	31.	0.408
25842.257	3868.5343	80.	0.317
25840.508	3868.7962	24.	0.612
25839.106	3869.0061	14.	0.512
25837.795	3869.2025	22.	0.714
25835.553	3869.5382	79.	0.918
25832.900	3869.9356	25.	0.512
25831.178	3870.1936	35.	0.714
25829.678	3870.4184	40.	0.918

9,1P23;5,1P10

4,1R5

7,1R19;4,1P4

8,1R22

4,1R6

5,1R12

6,1R16

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8,1P21

6,1P15

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9,1R25

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)
25828.225	3870.6361	17.	0.408
25827.350	3870.7671	22.	0.612
25825.113	3871.1025	17.	0.714
25823.824	3871.2957	21.	0.612
25822.523	3871.4907	108.	0.815
25820.644	3871.7726	21.	0.917
25819.028	3872.0149	25.	0.611
25818.015	3872.1668	28.	0.611
25816.145	3872.4473	183.	1.528
25812.749	3872.9568	31.	1.222
25811.380	3873.1622	17.	0.407
25810.404	3873.3086	15.	0.509
25809.001	3873.5192	105.	0.712
25807.471	3873.7489	58.	0.509
25806.340	3873.9186	71.	0.712
25804.962	3874.1255	12.	0.407
25803.622	3874.3267	62.	0.712
25802.409	3874.5089	103.	0.814
25800.605	3874.7797	108.	0.915
25798.550	3875.0884	15.	0.610
25796.556	3875.3879	17.	0.712
25794.312	3875.7251	23.	1.321
25792.518	3875.9947	27.	0.610
25791.609	3876.1313	26.	0.508
25789.555	3876.4400	33.	0.711
25788.466	3876.6037	37.	0.610
25786.799	3876.8543	36.	0.711
25784.668	3877.1747	33.	0.711
25781.884	3877.5935	157.	0.914
25780.014	3877.8746	37.	0.609
25779.007	3878.0261	170.	0.609
25778.009	3878.1762	23.	0.406
25775.694	3878.5246	554.	1.523
25774.013	3878.7776	76.	0.609
25772.482	3879.0081	24.	0.710
25770.901	3879.2460	21.	0.710
25769.848	3879.4046	13.	0.406
25768.294	3879.6385	26.	0.710
25766.016	3879.9815	33.	0.608
25765.135	3880.1142	22.	0.405
25764.110	3880.2685	14.	0.507
25763.105	3880.4198	13.	0.405
25761.016	3880.7345	15.	0.405
25759.679	3880.9360	73.	1.013
25758.207	3881.1578	15.	0.507
25757.085	3881.3269	31.	0.405
25756.377	3881.4336	41.	0.403
25755.293	3881.5969	116.	0.709
25754.012	3881.7900	13.	0.405
25752.654	3881.9947	36.	0.608
25751.065	3882.2342	123.	1.215
25749.067	3882.5355	15.	0.607
25747.822	3882.7232	14.	0.810
25746.091	3882.9843	13.	0.506
25744.597	3883.2096	33.	0.809
25743.302	3883.4049	70.	0.803
25741.682	3883.6494	27.	0.607
25739.691	3883.9498	23.	0.809
25738.262	3884.1654	26.	0.703
25736.948	3884.3637	35.	0.708

5,1R13

4,1R8

7,1R20

9,1P24

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5,1P12

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
25735.369	3584.6021	22.	0.505	
25734.174	3584.7825	113.	0.309	5,1P13
25731.678	3585.1593	14.	1.011	
25729.398	3585.5036	42.	0.505	
25728.445	3585.6476	37.	0.606	
25726.923	3585.8774	83.	1.111	4,1R10
25724.147	3586.2968	9310.	1.414	
25722.509	3586.5442	16.	0.606	
25720.989	3586.7739	18.	1.111	
25719.257	3587.0356	238.	0.908	
25717.064	3587.3671	14.	0.505	
25715.343	3587.6272	30.	0.505	
25714.247	3587.7931	163.	0.706	6,1R18
25712.945	3587.9898	75.	0.605	
25710.816	3588.3118	77.	0.706	4,1P9
25709.546	3588.5039	203.	0.605	
25708.499	3588.6622	110.	0.605	
25707.463	3588.8190	26.	0.403	
25706.474	3588.9686	29.	0.605	
25703.115	3589.4769	26.	1.109	
25701.222	3589.7633	24.	0.907	
25699.430	3590.0345	28.	1.108	
25697.967	3590.2560	21.	0.604	
25696.836	3590.4272	29.	0.604	
25694.453	3590.7880	35.	1.007	
25692.014	3591.1575	21.	0.604	
25689.975	3591.4663	35.	0.604	
25688.734	3591.6543	144.	0.906	6,1P17
25687.062	3591.9076	16.	0.403	
25686.219	3592.0354	22.	0.503	
25685.494	3592.1451	16.	0.503	
25683.666	3592.4223	194.	1.509	5,1R15
25680.811	3592.6549	121.	0.805	
25677.418	3593.3694	54.	0.804	
25675.931	3593.5873	16.	0.905	
25674.324	3593.8386	84.	0.905	4,1R11
25672.043	3594.1846	13.	0.402	
25670.801	3594.3729	30.	0.904	
25669.494	3594.5713	14.	0.502	
25667.707	3594.8423	15.	0.904	
25666.055	3595.0931	102.	0.804	8,1R24
25664.543	3595.3226	32.	0.803	
25662.339	3595.6571	9310.	0.803	
25660.685	3595.9083	103.	1.305	5,1P14
25658.727	3596.2055	14.	0.803	
25657.052	3596.4599	79.	0.803	4,1P10
25655.502	3596.6953	62.	0.803	
25654.170	3596.8977	21.	0.602	
25652.371	3597.1710	13.	0.803	
25650.825	3597.4058	16.	0.602	
25649.685	3597.5791	31.	0.602	
25648.463	3597.7648	28.	0.401	
25647.299	3597.9417	72.	1.203	
25645.024	3598.2875	15.	0.501	
25643.526	3598.5152	29.	0.702	
25642.374	3598.6904	15.	0.501	
25640.472	3598.9796	21.	0.601	
25638.824	3599.2302	28.	0.701	
25636.870	3599.5274	95.	0.601	8,1P23
25635.622	3599.7172	9310.	0.901	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)
25633.911	3899.9775	25.	0.701
25632.243	3900.2313	22.	0.401
25631.539	3900.3385	27.	0.501
25630.453	3900.5037	16.	0.400
25629.475	3900.6525	32.	0.701
25628.273	3900.8355	32.	0.400
25627.547	3900.9459	39.	0.500
25626.759	3901.0660	17.	0.400
25625.747	3901.2200	26.	0.600
25624.680	3901.3824	15.	0.500
25623.061	3901.6290	116.	1.201
25620.655	3901.9954	29.	0.600
25618.378	3902.3422	30.	0.600
25616.810	3902.5810	62.	0.800
25614.422	3902.9449	1385.	0.900
25612.551	3903.2300	41.	0.700
25611.297	3903.4211	14.	0.400
25609.444	3903.7036	15.	0.699
25608.085	3903.9108	51.	0.599
25606.340	3904.1768	103.	0.699
25603.786	3904.5663	132.	0.799
25602.011	3904.8370	34.	0.799
25600.321	3905.0947	41.	0.799
25598.471	3905.3770	86.	0.898
25596.912	3905.6148	151.	0.798
25595.833	3905.7796	34.	0.499
25593.785	3906.0921	26.	0.499
25593.101	3906.1965	28.	0.499
25592.417	3906.3008	18.	0.399
25591.252	3906.4786	396.	0.798
25589.166	3906.7971	24.	0.698
25588.150	3906.9523	13.	0.399
25586.930	3907.1385	36.	0.598
25586.060	3907.2715	71.	0.598
25584.591	3907.4957	58.	0.698
25583.040	3907.7327	110.	0.797
25581.643	3907.9460	34.	0.698
25578.792	3908.3816	67.	0.797
25576.980	3908.6586	60.	0.996
25575.352	3908.9074	128.	0.896
25573.148	3909.2443	34.	0.896
25570.929	3909.5836	25.	0.797
25569.320	3909.8295	14.	0.597
25568.034	3910.0261	21.	0.697
25565.757	3910.3744	35.	0.796
25564.678	3910.5394	27.	0.597
25563.388	3910.7368	14.	0.398
25562.198	3910.9188	37.	0.796
25560.557	3911.1700	13.	0.895
25558.489	3911.4865	40.	0.696
25556.242	3911.8303	93.	0.394
25554.402	3912.1121	90.	0.895
25552.223	3912.4456	21.	0.497
25551.188	3912.6041	27.	0.596
25550.110	3912.7693	22.	0.497
25549.142	3912.9174	27.	0.497
25547.890	3913.1093	124.	0.795
25546.644	3913.3000	50.	0.497
25545.684	3913.4471	58.	0.596
25544.154	3913.6815	30.	0.795

6,1R19

4,1R12

5,1R16

10,3R5

4,1P11

6,1P18

10,3P4

5,1P15

10,3R6

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4,1R13

8,1R25

10,3R7

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
25542.766	3913.5942	34.	0.695	
25541.219	3914.1313	63.	0.496	
25540.010	3914.3165	80.	0.695	
25538.441	3914.5570	68.	0.695	
25533.625	3915.2954	9310.	7.739	
25529.071	3915.9938	81.	0.397	
25528.199	3916.1277	97.	0.397	6,1R20
25527.331	3916.2608	137.	0.595	
25525.884	3916.4827	47.	0.496	
25524.653	3916.6716	96.	0.694	5,1R17
25523.574	3916.8373	57.	0.496	
25521.355	3917.1779	30.	0.595	
25520.060	3917.3766	34.	0.595	
25518.120	3917.6745	102.	0.892	8,1P24
25515.948	3918.0080	48.	0.792	
25514.036	3918.3016	26.	0.396	
25513.277	3918.4182	27.	0.495	
25511.850	3918.6373	58.	0.693	10,3R8
25510.588	3918.8312	14.	0.396	
25509.067	3919.0648	28.	0.495	
25506.667	3919.4337	23.	0.693	
25504.867	3919.7102	24.	0.396	
25503.804	3919.8736	40.	0.890	
25501.751	3920.1891	1662.	1.484	
25500.255	3920.4191	252.	0.593	6,1P19;5,1P16
25499.155	3920.5883	56.	0.593	
25498.235	3920.7297	23.	0.396	
25497.148	3920.8970	45.	0.692	10,3P7
25495.901	3921.0886	46.	0.593	
25494.500	3921.3042	92.	0.593	
25493.368	3921.4783	35.	0.593	
25491.015	3921.8403	48.	0.889	
25489.161	3922.1255	32.	0.692	
25487.134	3922.4375	80.	0.889	4,1R14
25485.863	3922.6331	17.	0.395	
25484.046	3922.9127	9310.	1.185	
25480.063	3923.5260	16.	1.086	
25478.592	3923.7525	48.	0.691	
25475.921	3924.1639	74.	0.888	6,2R3
25474.501	3924.3827	35.	0.789	
25471.959	3924.7744	47.	1.184	10,3R9
25470.028	3925.0718	32.	0.690	
25468.526	3925.3034	101.	0.888	
25466.427	3925.6269	89.	0.592	4,1P13
25465.308	3925.7994	117.	0.690	
25464.322	3925.9514	30.	0.493	
25462.316	3926.2607	29.	0.986	
25460.988	3926.4656	15.	0.690	
25459.579	3926.6829	41.	0.788	6,2R4
25458.087	3926.9130	25.	1.182	
25455.993	3927.2360	34.	0.493	10,3P8
25455.150	3927.3661	90.	0.591	
25454.059	3927.5344	26.	0.492	
25452.927	3927.7090	45.	0.591	
25451.577	3927.9174	9310.	0.985	
25450.396	3928.0997	27.	0.492	
25449.399	3928.2537	16.	0.492	
25447.004	3928.6233	39.	1.181	
25445.366	3928.8763	14.	0.590	
25444.130	3929.0670	15.	0.689	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
25442.954	3929.2487	32.	0.589
25440.510	3929.6261	37.	0.689
25439.363	3929.8033	50.	0.590
25438.225	3929.9791	124.	0.688
25437.200	3930.1376	68.	0.393
25436.069	3930.3123	9310.	1.081
25434.363	3930.5760	23.	0.590
25432.732	3930.8279	27.	0.983
25431.557	3931.0096	43.	0.590
25429.111	3931.3877	28.	0.590
25427.989	3931.5611	57.	0.491
25426.998	3931.7144	85.	0.589
25425.277	3931.9806	126.	0.982
25423.733	3932.2193	27.	0.884
25421.955	3932.4944	18.	0.393
25421.052	3932.6341	22.	0.589
25419.777	3932.8314	16.	0.393
25418.777	3932.9861	32.	0.687
25417.554	3933.1753	30.	0.589
25415.931	3933.4265	41.	0.491
25414.680	3933.6201	79.	0.981
25413.104	3933.8641	117.	0.687
25412.224	3934.0003	56.	0.490
25411.178	3934.1622	18.	0.392
25409.994	3934.3455	80.	0.883
25408.872	3934.5193	24.	0.490
25407.735	3934.6953	21.	0.490
25406.651	3934.8632	27.	0.686
25404.078	3935.2618	14.	0.588
25403.044	3935.4219	14.	0.490
25401.649	3935.6380	45.	1.073
25400.547	3935.8088	29.	0.392
25399.290	3936.0036	170.	0.980
25397.675	3936.2539	27.	0.490
25396.617	3936.4178	28.	0.588
25395.330	3936.6174	102.	0.784
25393.057	3936.9697	64.	0.685
25392.200	3937.1026	24.	0.490
25390.839	3937.3137	18.	0.685
25389.678	3937.4937	13.	0.489
25386.103	3938.0483	30.	0.783
25384.447	3938.3051	16.	0.587
25383.022	3938.5262	29.	1.272
25381.012	3938.8382	98.	1.272
25379.054	3939.1421	53.	0.685
25377.496	3939.3839	15.	0.489
25375.548	3939.6864	55.	1.271
25373.303	3940.0348	37.	0.880
25368.712	3940.7479	54.	0.977
25366.329	3941.1182	16.	0.585
25364.610	3941.3853	22.	0.585
25363.078	3941.6233	28.	0.488
25362.195	3941.7605	30.	0.586
25360.947	3941.9545	26.	0.488
25359.507	3942.1783	70.	0.683
25358.071	3942.4017	58.	1.074
25356.611	3942.6287	22.	0.586
25354.666	3942.9310	23.	0.488
25353.573	3943.1011	32.	0.683
25351.271	3943.4592	108.	0.878

6,2R3;5,1R18

10,3R10

8,1R26

4,1R15

5,1P17

6,2R6

10,3P9

6,2P5

8,1P25

4,1P14

6,2R7

10,3R11

6,2P6

10,3P10

9,3R2

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
25350.147	3943.6341	24.	0.488	
25348.265	3943.9267	15.	0.585	
25346.957	3944.1304	62.	0.682	5,1R19
25345.455	3944.3640	85.	0.780	6,2R8
25343.754	3944.6289	30.	0.585	9,3R3
25342.103	3944.8858	18.	0.487	
25341.052	3945.0494	26.	0.390	
25340.306	3945.1656	50.	0.585	
25338.910	3945.3830	31.	0.487	
25337.692	3945.5726	64.	0.877	4,1R16
25335.711	3945.8811	15.	0.682	
25333.347	3946.2492	33.	0.779	
25330.928	3946.6262	46.	0.779	6,2P7
25329.393	3946.8654	13.	0.389	
25328.039	3947.0764	32.	0.584	9,3R4
25327.266	3947.1969	32.	0.584	
25325.299	3947.5034	99.	1.070	10,3R12
25323.592	3947.7695	25.	0.584	
25322.215	3947.9842	80.	0.681	
25321.048	3948.1662	107.	0.584	5,1P18
25320.018	3948.3268	91.	0.583	
25319.026	3948.4815	23.	0.389	
25317.136	3948.7762	70.	0.486	
25315.024	3949.1057	93.	0.875	4,1P15
25313.523	3949.3398	35.	0.583	
25312.621	3949.4806	22.	0.486	
25311.265	3949.6922	62.	0.680	
25309.603	3949.9515	84.	0.486	
25308.582	3950.1109	22.	0.583	
25307.319	3950.3080	41.	0.874	9,3R5
25305.976	3950.5176	17.	0.583	
25304.439	3950.7577	65.	1.359	10,3P11;6,2R9
25302.685	3951.0316	14.	0.388	
25301.838	3951.1638	23.	0.582	
25300.630	3951.3524	18.	0.582	
25299.800	3951.4821	28.	0.485	
25298.757	3951.6449	59.	0.582	8,1R27
25297.966	3951.7685	38.	0.582	9,3P4
25295.764	3952.1126	48.	1.358	
25293.763	3952.4251	96.	0.873	
25292.368	3952.6432	28.	0.776	
25291.487	3952.7808	28.	0.485	
25289.948	3953.0215	59.	0.776	
25288.645	3953.2251	47.	0.582	6,2P8
25287.511	3953.4024	64.	0.679	
25286.041	3953.6323	32.	0.969	
25283.782	3953.9854	25.	0.485	
25283.016	3954.1053	38.	0.388	
25282.221	3954.2297	42.	0.581	9,3R6
25279.727	3954.6197	14.	0.581	
25278.735	3954.7750	14.	0.678	
25276.516	3955.1221	53.	0.775	
25275.089	3955.3454	15.	0.484	
25273.084	3955.6592	23.	1.162	
25271.050	3955.9776	44.	0.871	9,3P5
25269.916	3956.1551	30.	0.581	
25268.404	3956.3919	75.	0.774	8,1P26
25267.327	3956.5605	46.	0.387	10,3R13
25266.520	3956.6870	45.	0.484	
25265.627	3956.8267	17.	0.387	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT (v', v'', Branch J)
25264.317	3957.0319	26.	0.677	
25262.596	3957.3016	70.	0.774	
25260.228	3957.6725	31.	0.580	
25259.274	3957.8220	68.	0.580	6,2R10
25258.160	3957.9966	39.	0.677	
25255.859	3958.3572	61.	1.160	4,1R17
25254.435	3958.5203	14.	0.483	
25253.376	3958.7463	16.	0.483	
25252.277	3958.9187	46.	0.676	9,3R7
25251.050	3959.1110	80.	0.676	5,1R20
25249.723	3959.3190	29.	0.676	
25248.457	3959.5176	13.	0.676	
25246.839	3959.7713	18.	0.676	
25245.655	3959.9571	16.	0.483	
25244.499	3960.1384	51.	0.772	10,3P12
25243.050	3960.3658	31.	0.772	
25241.609	3960.5919	81.	0.965	6,2P9
25239.046	3960.9940	40.	0.676	9,3P6
25237.552	3961.2286	35.	0.772	
25236.361	3961.4155	15.	0.482	
25235.453	3961.5580	17.	0.386	
25234.490	3961.7093	28.	0.772	
25232.478	3962.0251	91.	1.350	4,1P16
25230.272	3962.3715	25.	0.771	
25228.951	3962.5790	21.	0.578	
25227.784	3962.7623	39.	0.771	
25225.632	3963.1003	41.	0.578	
25224.401	3963.2938	83.	0.675	5,1P19
25223.197	3963.4830	38.	0.578	
25222.124	3963.6517	22.	0.578	
25220.930	3963.8393	19.	0.385	
25220.038	3963.9794	32.	0.674	
25219.121	3964.1235	19.	0.385	
25217.681	3964.3499	63.	0.578	9,3R8
25216.707	3964.5031	44.	0.578	
25215.385	3964.7110	19.	0.578	
25214.588	3964.8362	15.	0.385	
25212.695	3965.1339	86.	0.963	
25211.286	3965.3556	33.	0.481	
25210.116	3965.5396	25.	0.577	
25208.959	3965.7217	87.	0.577	6,2R11
25207.694	3965.9206	48.	0.866	
25206.770	3966.0661	19.	0.385	
25205.637	3966.2365	26.	0.481	
25204.508	3966.4219	75.	0.770	10,3R14
25203.210	3966.6262	39.	0.577	
25202.278	3966.7729	49.	0.769	9,3P7
25201.157	3966.9494	30.	0.481	
25199.890	3967.1489	35.	0.920	5,2R3
25198.282	3967.4020	21.	0.575	
25197.147	3967.5807	19.	0.575	
25195.614	3967.8221	22.	0.460	
25194.205	3968.0441	32.	1.379	5,2P2
25191.441	3968.4795	12.	0.575	
25189.671	3968.7582	46.	0.919	6,2P10
25186.211	3969.3035	98.	1.838	
25183.753	3969.6909	91.	1.378	5,2R4

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(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
25181.115	3970.1058	60.	0.672	
25180.258	3970.2419	60.	0.576	10,3P13
25179.197	3970.4092	34.	0.384	
25178.153	3970.5739	117.	0.672	9,3R9
25176.349	3970.8584	63.	0.767	5,2P3
25174.946	3971.0797	22.	0.671	
25173.403	3971.3231	45.	0.575	
25171.735	3971.5863	27.	0.479	
25170.470	3971.7858	31.	0.959	
25169.101	3972.0020	51.	0.575	4,1R18
25167.871	3972.1961	151.	0.767	8,1R28
25165.464	3972.5759	16.	0.671	
25164.348	3972.7521	13.	0.383	
25163.412	3972.9000	27.	0.383	
25162.669	3973.0173	71.	0.671	5,2R5
25161.328	3973.2289	49.	0.575	9,3P8
25159.278	3973.5527	24.	0.479	
25158.465	3973.6811	35.	0.479	
25157.552	3973.8254	32.	0.479	
25156.530	3973.9868	26.	0.479	
25155.443	3974.1585	39.	0.574	
25153.699	3974.4341	123.	1.340	5,2P4;6,2R12
25151.824	3974.7304	27.	0.383	
25150.521	3974.9362	104.	1.053	5,1R21
25148.938	3975.1864	48.	0.670	
25147.817	3975.3637	16.	0.383	
25146.857	3975.5155	14.	0.478	
25144.906	3975.8240	68.	0.956	4,1P17
25143.780	3976.0020	34.	0.574	
25142.560	3976.1950	29.	0.478	
25141.663	3976.3368	64.	0.574	
25140.052	3976.5916	84.	0.765	
25137.493	3976.9964	153.	0.765	10,3R15;8,1P27
25136.241	3977.1945	107.	0.860	5,2R6
25134.295	3977.5025	82.	0.955	9,3R10
25132.888	3977.7251	125.	0.669	6,2P11
25131.134	3978.0027	36.	0.573	
25130.069	3978.1713	22.	0.478	
25129.175	3978.3130	15.	0.573	
25127.765	3978.5362	35.	0.573	
25126.963	3978.6632	35.	0.573	
25125.508	3978.8935	58.	0.764	5,2P5
25123.190	3979.2607	125.	0.954	5,1P20
25120.781	3979.6422	28.	0.477	
25119.829	3979.7931	39.	0.663	
25118.304	3980.0347	38.	0.859	
25116.676	3980.2927	72.	0.763	
25115.413	3980.4929	65.	0.763	9,3P9
25113.298	3980.8282	25.	0.477	
25111.805	3981.0647	56.	1.430	10,3P14
25109.948	3981.3591	93.	0.763	
25108.661	3981.5633	16.	0.477	
25107.422	3981.7598	28.	0.572	
25105.575	3982.0527	99.	0.762	5,2R7
25104.037	3982.2966	28.	0.667	
25101.276	3982.7348	22.	0.571	
25099.723	3982.9811	28.	0.476	
25098.787	3983.1296	79.	0.667	
25097.305	3983.3649	27.	0.571	
25095.528	3983.5835	57.	0.952	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
25094.333	3983.8843	104.	0.952	6,2R13
25092.706	3984.0950	65.	0.571	5,2P6
25091.321	3984.3150	15.	0.856	
25089.478	3984.5075	83.	0.951	
25087.576	3984.9096	30.	0.571	
25086.855	3985.0242	42.	0.571	
25085.472	3985.2439	63.	0.665	9,3R11
25083.389	3985.5748	905.	1.615	
25081.045	3985.9474	60.	0.665	
25079.622	3986.1736	34.	0.665	
25077.661	3986.4852	43.	1.045	4,1R19
25076.001	3986.7491	27.	0.760	
25074.401	3987.0035	56.	0.855	
25073.403	3987.1622	25.	0.475	
25071.676	3987.4369	79.	0.760	6,2P12
25069.662	3987.7572	185.	0.950	5,2R8
25067.514	3988.0989	23.	0.665	
25065.451	3988.4273	82.	1.234	10,3R16;9,3P10
25064.070	3988.6469	25.	0.475	
25062.956	3988.8242	29.	0.569	
25061.887	3988.9944	62.	0.569	
25060.330	3989.2422	29.	0.474	
25058.649	3989.5099	32.	0.664	
25056.243	3989.8929	56.	0.664	
25055.158	3990.0658	73.	0.664	5,2P7
25053.763	3990.2879	21.	0.664	
25052.210	3990.5352	63.	1.138	4,1P18
25050.723	3990.7721	13.	0.379	
25049.152	3991.0225	31.	0.569	
25048.117	3991.1874	16.	0.569	
25045.290	3991.6378	47.	0.568	
25044.050	3991.8355	28.	0.758	5,1R22
25042.767	3992.0400	45.	0.758	
25040.163	3992.4551	27.	0.663	
25038.336	3992.7386	65.	1.609	10,3P15
25036.299	3993.0713	30.	0.663	
25035.256	3993.2377	21.	0.473	
25034.371	3993.3789	16.	0.379	
25033.148	3993.5740	52.	0.568	8,1R29
25031.961	3993.7634	62.	0.757	9,3R12
25030.460	3994.0029	29.	0.378	
25029.156	3994.2109	158.	1.041	5,2R9;6,2R14
25027.199	3994.5233	79.	0.757	
25025.681	3994.7657	12.	0.378	
25024.423	3994.9664	38.	0.662	
25023.344	3995.1387	22.	0.662	
25022.098	3995.3376	15.	0.473	
25021.191	3995.4825	28.	0.756	
25019.760	3995.7111	23.	0.662	
25017.663	3996.0460	64.	0.850	5,1P21
25015.755	3996.3507	61.	0.345	
25013.302	3996.7426	78.	0.661	5,2P8
25012.775	3996.8269	79.	0.567	
25011.571	3997.0192	13.	0.567	
25010.296	3997.2231	53.	0.661	9,3P11
25009.197	3997.3987	78.	0.661	
25007.808	3997.6207	51.	0.755	
25005.831	3997.9368	94.	1.604	6,2P13
25004.040	3998.2231	49.	0.661	
25002.429	3998.4808	67.	0.755	8,1P28

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
25010.398	3997.2068	50.	0.678	
25009.261	3997.3884	43.	0.678	
25007.848	3997.6143	51.	0.791	
25005.958	3997.9165	104.	1.582	
25004.085	3998.2160	49.	0.791	
25002.464	3998.4752	57.	0.904	
24999.873	3998.8896	48.	1.016	
24998.287	3999.1433	39.	0.790	
24995.953	3999.5167	35.	1.355	
24993.633	3999.8880	27.	0.790	
24992.097	4000.1338	27.	0.677	
24990.860	4000.3318	47.	0.677	
24989.422	4000.5620	58.	1.015	10,3R17
24987.687	4000.8397	24.	0.902	
24985.966	4001.1153	28.	0.902	
24983.399	4001.5265	120.	1.466	5,2R10
24980.772	4001.9473	65.	1.353	4,1R20
24979.173	4002.2034	41.	0.789	
24977.601	4002.4553	72.	1.014	
24974.241	4002.9939	60.	1.014	9,3R13
24972.708	4003.2397	76.	1.126	
24970.286	4003.6279	36.	0.901	
24968.676	4003.8861	14.	0.450	
24967.394	4004.0917	26.	1.013	
24965.738	4004.3572	82.	0.901	5,2P9
24962.847	4004.8211	28.	0.675	
24961.439	4005.0469	92.	0.788	10,3P16
24960.116	4005.2592	207.	0.900	6,2R15
24957.201	4005.7270	12.	1.012	
24955.595	4005.9849	51.	0.675	4,1P19
24954.488	4006.1626	30.	0.562	
24950.750	4006.7628	104.	2.136	9,3P12
24948.328	4007.1518	26.	0.674	
24947.371	4007.3054	38.	0.787	
24943.725	4007.8912	39.	0.786	
24942.712	4008.0540	36.	0.786	
24941.231	4008.2920	14.	0.449	
24939.968	4008.4949	41.	0.786	
24937.917	4008.8247	26.	1.123	
24935.323	4009.2418	98.	1.347	6,2P14;5,1R23
24933.470	4009.5397	139.	0.786	5,2R11
24932.203	4009.7435	81.	0.786	4,2R3
24929.853	4010.1215	42.	1.571	
24928.069	4010.4084	13.	0.449	
24926.483	4010.6636	57.	1.122	
24924.832	4010.9292	15.	0.561	
24923.713	4011.1093	17.	0.561	
24922.459	4011.3112	24.	0.673	
24920.808	4011.5770	16.	0.785	
24918.804	4011.8996	73.	0.785	
24917.533	4012.1042	40.	0.672	
24916.098	4012.3354	63.	0.784	4,2R4
24914.211	4012.6391	94.	1.569	5,2P10
24911.973	4012.9996	50.	0.672	9,3R14
24910.767	4013.1940	37.	0.784	
24908.984	4013.4812	70.	1.008	10,3R18;4,2P3
24907.239	4013.7624	71.	1.344	
24905.169	4014.0960	30.	0.896	
24903.632	4014.3438	23.	0.672	
24902.498	4014.5266	49.	0.671	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
24901.423	4014.6998	50.	0.783	
24898.933	4015.1014	31.	0.783	
24896.108	4015.5570	26.	0.559	
24894.531	4015.8114	83.	1.566	4,2R5
24892.613	4016.1208	13.	0.447	
24891.306	4016.3317	42.	0.783	
24890.254	4016.5015	25.	0.447	
24889.013	4016.7018	66.	0.782	
24886.910	4017.0412	123.	1.453	9,3P13;6,2R16
24885.373	4017.2893	77.	0.670	4,2P4
24884.317	4017.4597	33.	0.559	
24882.762	4017.7108	72.	0.782	
24881.827	4017.8618	36.	0.447	
24880.434	4018.0867	64.	0.894	
24878.177	4018.4513	128.	0.893	10,3P17;5,2R12
24876.410	4018.7368	16.	0.893	
24874.180	4019.0970	43.	0.893	
24872.708	4019.3350	41.	0.670	
24870.197	4019.7407	65.	0.893	
24868.846	4019.9591	101.	0.669	4,2R6
24867.707	4020.1432	35.	0.558	
24865.308	4020.5311	31.	0.892	
24863.534	4020.8179	98.	1.004	
24861.250	4021.1874	89.	0.669	
24859.901	4021.4055	101.	0.892	6,2P15
24857.565	4021.7835	270.	1.560	5,2P11;4,2P5
24855.483	4022.1204	30.	0.557	
24854.179	4022.3313	66.	0.891	
24852.236	4022.6459	97.	0.780	
24850.920	4022.8588	53.	0.557	
24850.040	4023.0013	63.	0.668	
24848.465	4023.2564	59.	0.891	
24846.694	4023.5431	38.	1.002	
24845.091	4023.8028	98.	0.668	9,3R15
24843.615	4024.0417	93.	1.224	
24841.602	4024.3680	56.	1.002	
24839.392	4024.7259	70.	0.556	
24837.883	4024.9705	194.	0.890	4,2R7
24835.363	4025.3789	135.	0.779	
24833.061	4025.7520	137.	1.001	
24831.532	4025.9999	115.	1.001	
24829.594	4026.3141	117.	0.667	
24828.228	4026.5357	207.	0.667	
24826.607	4026.7986	171.	1.000	
24825.159	4027.0336	171.	0.556	4,2P6
24824.145	4027.1979	198.	0.556	10,3R19
24821.921	4027.5589	422.	1.666	
24819.582	4027.9384	117.	0.444	
24818.354	4028.1376	360.	0.777	9,3P14;5,2R13
24816.933	4028.3683	91.	0.444	
24815.941	4028.5295	97.	0.666	
24814.038	4028.8384	100.	1.998	
24811.313	4029.2809	162.	1.443	
24809.410	4029.5899	157.	0.777	
24807.591	4029.8367	237.	0.566	6,2R17
24806.454	4030.0702	126.	0.998	
24804.915	4030.3201	76.	0.555	
24803.883	4030.4878	72.	0.555	
24802.007	4030.7927	4850.	1.331	4,2R8
24800.177	4031.0902	44.	0.554	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
24798.280	4031.3985	42.	2.106	
24796.036	4031.7634	286.	0.387	5,2P12
24794.710	4031.9790	68.	0.554	
24792.978	4032.2607	174.	1.108	10,3P18
24789.604	4032.8094	40.	0.775	
24787.733	4033.1138	1078.	1.440	4,2P7
24784.789	4033.5929	56.	0.996	
24783.289	4033.8372	20.	0.443	
24781.908	4034.0620	29.	0.996	
24780.405	4034.3065	116.	0.664	6,2P16
24779.033	4034.5300	539.	0.996	
24776.475	4034.9465	41.	0.774	
24774.083	4035.3361	83.	1.327	9,3R16
24772.708	4035.5601	37.	0.553	
24771.458	4035.7638	23.	0.774	
24769.811	4036.0321	28.	1.216	
24767.924	4036.3395	29.	0.774	
24766.438	4036.5817	16.	0.774	
24765.184	4036.7861	16.	0.442	
24764.113	4036.9608	31.	0.773	
24762.573	4037.2118	30.	0.552	
24761.281	4037.4225	154.	0.994	4,2R9
24759.127	4037.7738	26.	0.663	
24758.338	4037.9025	22.	0.442	
24757.094	4038.1053	21.	0.663	
24755.886	4038.3023	34.	0.662	
24753.847	4038.6350	133.	0.883	5,2R14
24752.513	4038.8527	37.	0.552	
24751.314	4039.0484	59.	0.662	
24750.173	4039.2346	23.	0.552	
24748.981	4039.4291	38.	0.662	
24747.891	4039.6070	84.	1.103	
24745.309	4040.0286	177.	1.103	9,3P15;4,2P8
24741.785	4040.6039	38.	0.662	
24740.581	4040.8006	57.	0.662	
24738.909	4041.0737	16.	0.441	
24737.394	4041.3213	42.	1.433	
24735.028	4041.7078	47.	0.882	10,3R20
24733.143	4042.0158	46.	0.881	
24731.219	4042.3303	43.	0.551	
24729.963	4042.5356	237.	0.991	5,2P13
24728.435	4042.7853	22.	0.551	
24726.964	4043.0259	34.	1.321	
24724.799	4043.3799	119.	0.991	6,2R18
24721.712	4043.8849	33.	0.550	
24720.721	4044.0470	71.	0.990	
24719.215	4044.2934	54.	0.660	
24717.232	4044.6179	71.	0.660	
24715.863	4044.8417	123.	0.770	4,2R10
24714.501	4045.0646	51.	0.660	
24713.138	4045.2878	22.	0.770	
24710.370	4045.7410	168.	2.529	
24708.302	4046.0796	21.	0.440	
24706.415	4046.3887	17.	0.769	
24704.368	4046.7239	25.	0.659	
24702.736	4046.9913	53.	0.989	10,3P19
24701.238	4047.2367	63.	0.659	
24699.956	4047.4467	55.	0.659	
24698.057	4047.7581	168.	1.318	9,3R16;4,2P9
24695.840	4048.1214	113.	1.318	6,2P17

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
24593.826	4048.4515	23.	0.575
24692.008	4048.7497	36.	1.546
24690.218	4049.0431	18.	0.658
24687.512	4049.4869	18.	0.549
24686.078	4049.7222	78.	0.378
24684.356	4050.0047	162.	1.206
24682.459	4050.3160	22.	0.439
24681.056	4050.5463	46.	1.316
24678.992	4050.8851	30.	0.877
24677.318	4051.1598	14.	0.438
24676.527	4051.2897	14.	0.438
24674.454	4051.6301	80.	2.192
24671.829	4052.0611	30.	0.876
24669.300	4052.4765	33.	0.657
24668.248	4052.6493	60.	0.767
24666.540	4052.9300	38.	0.547
24665.423	4053.1136	135.	0.766
24664.159	4053.3212	26.	0.547
24662.746	4053.5535	17.	0.766
24661.468	4053.7635	13.	0.438
24659.753	4054.0455	168.	1.094
24658.360	4054.2745	53.	0.547
24657.242	4054.4584	59.	0.766
24654.944	4054.8362	15.	0.875
24653.956	4054.9988	14.	0.437
24652.213	4055.2856	37.	0.656
24650.935	4055.4958	39.	0.765
24649.460	4055.7384	60.	0.875
24648.050	4055.9705	17.	0.547
24646.079	4056.2949	162.	1.421
24644.380	4056.5744	22.	0.437
24642.881	4056.8212	26.	0.546
24641.524	4057.0446	51.	0.874
24639.160	4057.4339	17.	0.765
24637.352	4057.7317	194.	1.420
24635.515	4058.0342	26.	0.373
24633.827	4058.3123	31.	0.764
24632.740	4058.4913	15.	0.546
24631.548	4058.6878	15.	0.546
24630.661	4058.8340	20.	0.546
24629.289	4059.0600	106.	0.873
24628.004	4059.2719	57.	0.546
24626.847	4059.4626	41.	0.655
24625.588	4059.6700	17.	0.654
24623.413	4060.0288	32.	0.763
24621.749	4060.3031	40.	0.872
24617.280	4061.0402	46.	1.199
24615.433	4061.3449	24.	0.763
24614.039	4061.5750	24.	0.763
24612.171	4061.8833	26.	0.545
24610.578	4062.1462	256.	1.743
24608.638	4062.4664	74.	0.871
24607.321	4062.6839	107.	0.653
24606.018	4062.8991	33.	0.653
24604.548	4063.1417	48.	0.762
24601.874	4063.5834	106.	1.306
24600.080	4063.8797	97.	0.762
24599.027	4064.0537	27.	0.544
24596.554	4064.4623	71.	1.414
24595.163	4064.6922	23.	0.544

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3,2R4

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4,2P10

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
24593.372	4064.9881	26.	0.653
24592.033	4065.2095	41.	0.870
24589.343	4065.6542	150.	1.413
24586.485	4066.1269	113.	1.304
24584.325	4066.4842	147.	0.978
24582.432	4066.7972	24.	0.543
24581.443	4066.9609	23.	0.435
24580.013	4067.1975	87.	1.195
24578.209	4067.4960	68.	0.869
24576.834	4067.7236	18.	0.543
24575.376	4067.9649	27.	0.434
24574.211	4068.1577	61.	0.760
24573.016	4068.3556	37.	0.760
24571.434	4068.6176	24.	0.651
24570.089	4068.8403	58.	0.760
24567.429	4069.2809	71.	0.368
24564.849	4069.7082	29.	1.193
24562.732	4070.0590	21.	0.868
24561.641	4070.2399	21.	0.434
24560.869	4070.3677	23.	0.542
24559.743	4070.5544	17.	0.542
24558.484	4070.7631	26.	0.650
24556.772	4071.0468	69.	1.301
24555.073	4071.3285	26.	0.759
24552.552	4071.7466	141.	1.300
24550.297	4072.1206	128.	0.758
24549.279	4072.2895	23.	0.433
24547.231	4072.6292	31.	0.866
24545.228	4072.9615	135.	0.758
24543.897	4073.1824	109.	0.866
24542.327	4073.4431	13.	0.433
24540.639	4073.7232	23.	0.758
24537.945	4074.1706	33.	0.541
24536.740	4074.3705	24.	0.649
24534.601	4074.7258	17.	0.973
24533.068	4074.9805	53.	0.541
24531.784	4075.1937	143.	0.973
24529.851	4075.5148	100.	0.973
24528.093	4075.8069	147.	1.081
24526.587	4076.0573	27.	0.648
24524.450	4076.4124	97.	1.405
24522.656	4076.7106	54.	0.864
24519.931	4077.1638	12.	0.648
24518.026	4077.4805	27.	0.756
24516.603	4077.7171	38.	0.756
24514.396	4078.0842	131.	0.864
24512.411	4078.4145	18.	0.756
24510.811	4078.6808	19.	0.540
24509.626	4078.8780	58.	0.647
24507.789	4079.1837	47.	0.863
24506.081	4079.4681	13.	0.431
24504.677	4079.7018	157.	0.863
24503.067	4079.9698	89.	1.078
24500.914	4080.3284	56.	0.862
24497.155	4080.9545	29.	0.754
24495.866	4081.1692	15.	0.539
24494.234	4081.4328	21.	0.539
24493.131	4081.6250	24.	0.546
24490.884	4081.9994	79.	0.862
24489.396	4082.2475	22.	0.754

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3,2P7

4,2P12

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3,2R9

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
24487.205	4082.6128	79.	1.292	3,2P8
24485.488	4082.8931	126.	0.861	4,2R14
24483.837	4083.1744	24.	0.646	
24482.358	4083.4211	14.	0.538	
24481.029	4083.6427	47.	0.646	
24479.920	4083.8277	32.	0.538	
24478.552	4084.0560	19.	0.646	
24477.313	4084.2627	30.	0.645	
24476.065	4084.4709	19.	0.538	
24474.807	4084.6810	13.	0.645	
24472.739	4085.0261	33.	0.860	
24471.129	4085.2948	16.	0.645	
24468.381	4085.7536	69.	0.860	
24466.860	4086.0077	18.	0.430	
24465.804	4086.1840	51.	0.645	
24464.609	4086.3837	40.	0.752	
24463.252	4086.6102	40.	0.537	
24462.100	4086.8028	141.	0.859	4,2P13
24460.651	4087.0449	30.	0.752	
24459.099	4087.3042	15.	0.644	
24457.708	4087.5366	92.	0.859	3,2R10
24456.360	4087.7619	16.	0.537	
24455.192	4087.9572	47.	0.644	
24453.958	4088.1634	48.	0.751	
24452.277	4088.4446	35.	0.751	
24450.467	4088.7472	35.	0.751	
24448.686	4089.0450	263.	1.073	6,2R21;5,2R18
24447.264	4089.2828	25.	0.644	
24445.437	4089.5886	28.	1.180	
24444.103	4089.8117	35.	0.536	9,3R20
24442.987	4089.9985	25.	0.429	
24442.221	4090.1266	41.	0.643	10,3R23
24440.471	4090.4195	103.	1.394	3,2P9
24438.592	4090.7341	28.	0.643	
24437.179	4090.9706	14.	0.429	
24436.571	4091.0724	18.	0.429	
24435.237	4091.2958	77.	1.179	
24433.647	4091.5620	47.	0.643	
24432.099	4091.8212	21.	0.535	
24429.771	4092.2111	38.	1.071	
24427.948	4092.5165	39.	1.392	
24425.754	4092.8841	16.	0.642	
24423.822	4093.2079	133.	0.963	
24422.453	4093.4373	24.	0.535	
24420.360	4093.7852	178.	1.070	5,2P17
24417.084	4094.3374	120.	0.642	6,2P20
24416.031	4094.5140	133.	0.642	4,2R15
24414.657	4094.7444	120.	0.749	
24413.167	4094.9944	53.	0.855	
24410.913	4095.3725	58.	0.855	9,3P19
24409.367	4095.6319	24.	0.641	
24408.291	4095.8125	28.	0.427	
24407.077	4096.0161	135.	0.748	10,3P22;3,2R11
24405.803	4096.2299	35.	0.641	
24404.335	4096.4765	17.	0.427	
24403.402	4096.6330	33.	0.534	
24402.346	4096.8103	36.	0.534	
24400.908	4097.0518	23.	0.641	
24399.328	4097.3674	50.	0.961	
24397.480	4097.6274	13.	0.427	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
24395.035	4098.0380	15.	0.427
24393.232	4098.3410	38.	1.067
24391.603	4098.6147	178.	0.854
24390.535	4098.7942	25.	0.427
24387.999	4099.2205	98.	1.493
24385.969	4099.5617	18.	1.280
24384.061	4099.8825	16.	0.640
24382.793	4100.0957	34.	0.746
24380.818	4100.4278	87.	0.853
24377.948	4100.9106	60.	0.853
24376.414	4101.1687	24.	0.533
24375.503	4101.3219	24.	0.533
24374.476	4101.4948	16.	0.426
24372.975	4101.7473	24.	0.639
24371.095	4102.0637	14.	0.532
24369.968	4102.2534	24.	0.639
24367.339	4102.6961	19.	0.639
24365.831	4102.9500	63.	1.064
24364.242	4103.2176	14.	0.426
24363.076	4103.4140	21.	0.851
24361.106	4103.7457	147.	0.851
24359.970	4103.9372	52.	0.638
24358.843	4104.1270	17.	0.532
24356.951	4104.4459	14.	0.532
24354.962	4104.7811	50.	0.851
24353.268	4105.0665	13.	0.532
24351.831	4105.3087	94.	0.744
24349.895	4105.6352	37.	0.638
24348.670	4105.8419	29.	0.531
24347.599	4106.0224	120.	0.744
24346.474	4106.2121	62.	0.638
24345.392	4106.3947	25.	0.531
24342.151	4106.9413	172.	1.381
24338.967	4107.4786	43.	0.531
24337.787	4107.6779	18.	0.743
24336.419	4107.9087	37.	0.537
24334.405	4108.2487	44.	0.743
24331.656	4108.7129	255.	0.955
24330.435	4108.9191	29.	0.530
24328.102	4109.3132	24.	1.167
24326.182	4109.6375	27.	0.530
24325.271	4109.7913	45.	0.636
24323.930	4110.0179	38.	0.848
24322.141	4110.3203	43.	0.742
24320.674	4110.5682	26.	0.742
24318.927	4110.8635	43.	0.848
24316.575	4111.2612	149.	1.060
24315.165	4111.4995	119.	0.742
24313.919	4111.7102	18.	0.530
24311.334	4112.1475	61.	0.953
24309.230	4112.5034	37.	0.741
24307.579	4112.7827	17.	1.164
24305.569	4113.1228	31.	0.635
24304.002	4113.3880	33.	0.847
24302.254	4113.6839	16.	0.529
24301.010	4113.8945	92.	0.741
24299.839	4114.0927	70.	0.740
24298.272	4114.3581	48.	0.952
24296.900	4114.5904	40.	0.635
24295.668	4114.7990	48.	0.740

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3,2P10

5,2R19

9,3R21;3,2R12

6,2R22

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
24294.339	4115.0241	14.	0.529
24292.362	4115.3590	43.	0.634
24291.482	4115.5081	94.	0.740
24289.852	4115.7842	18.	0.423
24288.374	4116.0348	72.	1.479
24286.753	4116.3095	21.	0.528
24285.584	4116.5077	29.	0.528
24284.310	4116.7236	68.	0.951
24282.747	4116.9886	19.	0.739
24281.416	4117.2142	13.	0.422
24279.831	4117.4830	41.	0.845
24278.072	4117.7814	17.	0.950
24276.878	4117.9839	12.	0.422
24275.611	4118.1988	13.	0.422
24274.668	4118.3588	15.	0.422
24273.523	4118.5531	126.	0.844
24271.563	4118.8857	16.	0.738
24270.063	4119.1403	147.	0.844
24268.639	4119.3819	129.	0.844
24266.650	4119.7197	117.	1.054
24264.924	4120.0127	21.	0.949
24263.096	4120.3231	131.	0.843
24261.546	4120.5863	30.	0.738
24259.929	4120.8610	23.	0.632
24258.357	4121.1281	17.	0.421
24257.383	4121.2935	51.	0.632
24256.186	4121.4969	48.	0.737
24254.615	4121.7639	31.	0.527
24253.719	4121.9161	26.	0.527
24252.038	4122.2018	39.	0.632
24251.066	4122.3671	28.	0.421
24249.896	4122.5659	21.	0.842
24247.323	4123.0034	43.	0.737
24245.252	4123.3556	17.	0.737
24243.929	4123.5806	63.	0.342
24242.153	4123.8826	142.	1.052
24240.207	4124.2137	18.	0.631
24238.376	4124.5254	137.	1.262
24236.320	4124.8752	133.	0.346
24234.798	4125.1343	50.	0.631
24233.682	4125.3242	23.	0.631
24231.832	4125.6391	23.	1.051
24229.050	4126.1129	23.	0.946
24227.785	4126.3285	21.	0.420
24226.524	4126.5432	105.	0.840
24225.263	4126.7579	31.	0.630
24223.734	4127.0184	26.	0.525
24222.868	4127.1661	28.	0.525
24220.628	4127.5476	76.	0.630
24218.350	4127.9359	65.	0.630
24216.926	4128.1786	47.	0.525
24215.974	4128.3410	28.	0.420
24214.430	4128.6042	27.	0.525
24213.397	4128.7804	31.	0.525
24211.401	4129.1208	96.	0.839
24209.461	4129.4517	151.	0.839
24207.426	4129.7988	58.	0.629
24206.084	4130.0278	56.	0.629
24204.868	4130.2353	62.	0.419
24203.876	4130.4045	147.	0.629

3,2R13

3,2P12
5,2R20

4,2R17

9,3R22

6,2R23

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
24202.552	4130.6304	70.	0.524	
24201.200	4130.8612	90.	0.524	
24200.187	4131.0342	98.	0.524	
24191.765	4132.4723	9940.	15.495	
24183.110	4133.9513	192.	0.528	
24181.406	4134.2426	108.	1.574	
24179.693	4134.5356	158.	0.523	4,2R18
24178.923	4134.6672	120.	0.418	
24177.875	4134.8464	53.	0.523	
24175.984	4135.1700	47.	0.523	
24174.706	4135.3885	61.	0.732	
24173.123	4135.6593	50.	0.527	
24171.883	4135.8715	144.	0.732	5,2R11
24170.130	4136.1715	53.	0.731	5,3R5
24167.972	4136.5407	51.	1.254	
24165.367	4136.9868	40.	0.527	
24163.647	4137.2812	29.	0.731	
24162.164	4137.5351	60.	0.835	
24160.426	4137.8327	55.	1.044	
24157.835	4138.2765	45.	0.526	
24156.643	4138.4808	122.	0.835	3,2R15
24155.285	4138.7135	35.	0.526	
24154.256	4138.8898	38.	0.526	9,3R23
24152.758	4139.1465	50.	0.417	
24151.897	4139.2941	153.	0.730	4,2P17
24150.841	4139.4751	30.	0.417	
24149.734	4139.6648	21.	0.521	
24148.164	4139.9339	115.	1.147	
24146.534	4140.2135	30.	0.525	
24145.311	4140.4230	35.	0.525	5,3R6
24142.647	4140.8800	57.	1.563	
24140.918	4141.1766	153.	0.729	5,2P20
24139.693	4141.3868	23.	0.417	
24138.463	4141.5977	59.	0.525	
24137.517	4141.7601	29.	0.417	
24136.360	4141.9586	24.	0.521	
24135.585	4142.0917	23.	0.521	
24132.827	4142.5650	195.	1.249	6,2R24;3,2P14
24130.682	4142.9333	34.	0.833	
24129.344	4143.1630	14.	0.520	
24127.922	4143.4072	163.	0.728	
24126.633	4143.6285	36.	0.520	
24125.225	4143.8704	497.	1.144	
24123.634	4144.1437	35.	0.728	
24122.568	4144.3269	17.	0.416	
24121.549	4144.5019	29.	0.520	
24120.732	4144.6423	24.	0.624	
24118.670	4144.9967	17.	1.248	
24116.890	4145.3026	22.	0.416	
24115.820	4145.4865	73.	0.935	9,3P22;5,3R7
24112.537	4146.0510	58.	1.039	10,3R26
24110.661	4146.3736	30.	0.727	
24109.530	4146.5680	23.	0.623	
24108.230	4146.7916	20.	0.519	
24106.308	4147.1222	59.	1.246	
24104.826	4147.3773	44.	0.519	
24104.007	4147.5181	33.	0.519	
24103.215	4147.6545	21.	0.415	
24101.875	4147.8851	36.	0.830	5,3P6
24099.310	4148.3265	140.	1.142	6,2P23

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
24096.972	4148.7290	15.	0.415
24095.854	4148.9215	17.	1.037
24093.778	4149.2791	25.	0.933
24092.576	4149.4861	28.	0.415
24091.574	4149.6586	106.	0.622
24090.730	4149.8040	88.	0.622
24088.790	4150.1383	28.	0.518
24087.791	4150.3103	33.	0.518
24086.777	4150.4850	17.	0.415
24085.548	4150.6968	51.	0.829
24083.719	4151.0121	36.	1.140
24082.224	4151.2699	78.	0.622
24081.208	4151.4449	60.	0.622
24079.754	4151.6957	13.	0.414
24078.011	4151.9962	14.	0.414
24076.932	4152.1822	54.	0.725
24075.188	4152.4830	43.	0.725
24073.703	4152.7392	52.	0.932
24072.168	4153.0040	17.	0.518
24070.748	4153.2491	172.	0.931
24068.690	4153.6042	33.	0.517
24067.030	4153.8907	45.	0.517
24065.612	4154.1355	33.	0.931
24063.175	4154.5561	126.	1.241
24061.398	4154.8629	98.	1.034
24060.142	4155.0798	34.	0.517
24058.504	4155.3628	37.	0.517
24057.354	4155.5613	108.	0.827
24055.035	4155.9619	64.	0.827
24053.587	4156.2121	33.	0.620
24052.740	4156.3586	26.	0.517
24051.835	4156.5149	17.	0.413
24050.270	4156.7854	46.	0.516
24049.120	4156.9842	44.	0.723
24047.231	4157.3108	37.	1.446
24044.239	4157.8280	51.	1.445
24042.319	4158.1602	58.	0.826
24040.922	4158.4012	17.	0.619
24038.906	4158.7505	142.	1.754
24036.469	4159.1721	41.	0.722
24034.914	4159.4412	26.	0.516
24033.959	4159.6065	25.	0.619
24031.237	4160.0777	44.	0.722
24030.386	4160.2251	18.	0.412
24029.025	4160.4606	14.	0.618
24027.547	4160.7165	28.	0.515
24026.194	4160.9509	94.	0.824
24025.084	4161.1431	43.	0.515
24023.547	4161.4094	79.	1.339
24021.012	4161.8485	45.	1.339
24018.887	4162.2168	103.	0.824
24017.125	4162.5222	43.	0.824
24015.414	4162.8187	24.	1.132
24013.793	4163.0997	37.	0.720
24012.238	4163.3692	43.	1.235
24010.733	4163.6303	25.	0.514
24009.594	4163.8279	45.	0.720
24007.472	4164.1958	25.	0.720
24005.692	4164.5045	51.	0.823
24004.044	4164.7906	12.	0.411

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4,2R19

8,4R3

3,2R16

5,3R8

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5,2R22

8,4R4

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3,2P15

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6,2R25

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
24002.859	4164.9962	75.	0.720
24001.000	4165.3188	18.	0.514
24000.122	4165.4712	17.	0.411
23998.721	4165.7142	158.	1.131
23996.619	4166.0792	48.	0.719
23995.310	4166.3065	50.	0.719
23994.197	4166.4997	15.	0.411
23992.969	4166.7131	25.	1.027
23991.578	4166.9546	29.	0.616
23990.649	4167.1160	27.	0.411
23989.799	4167.2637	21.	0.513
23988.833	4167.4314	15.	0.513
23987.241	4167.7080	48.	1.027
23984.711	4168.1476	107.	1.232
23981.723	4168.6670	39.	0.513
23980.352	4168.9054	34.	1.129
23978.828	4169.1704	52.	0.923
23977.139	4169.4641	112.	1.231
23974.501	4169.9228	21.	0.615
23973.363	4170.1207	14.	0.513
23972.313	4170.3033	12.	0.513
23970.531	4170.6135	24.	0.410
23969.534	4170.7870	112.	1.025
23968.030	4171.0486	26.	0.512
23964.967	4171.5818	120.	1.024
23963.412	4171.8524	53.	0.717
23961.620	4172.1645	43.	0.922
23960.308	4172.3928	30.	0.614
23958.353	4172.7333	44.	0.512
23956.887	4172.9888	96.	1.225
23955.298	4173.2655	25.	0.512
23954.483	4173.4075	23.	0.512
23952.948	4173.6750	35.	0.716
23951.548	4173.9189	56.	0.716
23950.374	4174.1235	59.	0.614
23949.115	4174.3431	45.	0.614
23946.662	4174.7705	36.	0.511
23945.984	4174.8888	47.	0.511
23944.907	4175.0766	20.	0.513
23943.320	4175.3534	16.	0.613
23941.794	4175.6195	46.	0.613
23939.541	4176.0125	36.	0.511
23938.338	4176.2223	49.	0.613
23937.227	4176.4161	28.	0.409
23936.343	4176.5703	40.	0.409
23935.186	4176.7723	76.	0.817
23933.874	4177.0012	47.	0.409
23933.002	4177.1534	119.	0.613
23931.251	4177.4591	36.	0.408
23930.604	4177.5719	38.	0.511
23929.278	4177.8035	50.	0.919
23928.244	4177.9840	31.	0.612
23925.858	4178.4007	55.	0.714
23924.574	4178.6250	25.	0.612
23922.869	4178.9228	69.	1.224
23921.027	4179.2446	59.	1.020
23918.803	4179.6332	115.	0.918
23917.622	4179.8396	17.	0.408
23916.273	4180.0753	37.	0.714
23914.704	4180.3496	32.	0.612

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5,3R10;4,2R20

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3,2P16

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5,2R23

8,4R8

10,3P26

5,3R11

8,4P7

4,3R3

5,2P22

5,3P10

8,4R9

4,3R4

3,2R18

4,3P3

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
23912.239	4180.7806	23.	1.121
23911.173	4180.9669	16.	0.408
23908.615	4181.4142	36.	1.121
23906.990	4181.6934	153.	0.917
23905.825	4181.9022	39.	0.509
23904.529	4182.1289	42.	0.815
23902.818	4182.4234	67.	0.916
23901.668	4182.6296	81.	0.407
23900.904	4182.7633	101.	0.509
23899.539	4183.0021	81.	1.222
23897.384	4183.3795	101.	1.013
23896.084	4183.6071	18.	0.509
23894.360	4183.9089	15.	1.017
23892.538	4184.2279	125.	0.814
23891.402	4184.4269	29.	0.509
23890.381	4184.6057	30.	0.610
23888.838	4184.8760	65.	0.712
23887.390	4185.1298	45.	0.610
23886.130	4185.3505	86.	0.712
23885.087	4185.5333	17.	0.407
23883.605	4185.7929	99.	1.321
23881.936	4186.0854	15.	0.508
23879.451	4186.5211	16.	0.508
23877.669	4186.8335	73.	0.711
23876.512	4187.0364	100.	0.609
23874.482	4187.3925	52.	0.609
23873.408	4187.5809	36.	0.508
23872.063	4187.8169	144.	1.015
23870.714	4188.0535	41.	0.508
23868.943	4188.3642	52.	0.609
23867.852	4188.5557	40.	0.507
23866.600	4188.7753	107.	0.710
23865.368	4188.9916	81.	0.710
23862.723	4189.4560	51.	1.116
23860.314	4189.8789	18.	0.811
23859.011	4190.1078	14.	0.507
23857.615	4190.3530	31.	1.014
23856.053	4190.6274	53.	0.507
23854.981	4190.8156	129.	1.115
23853.540	4191.0689	18.	0.508
23851.607	4191.4085	96.	0.811
23850.119	4191.6699	18.	0.508
23848.034	4192.0365	106.	0.912
23846.468	4192.3118	39.	0.508
23845.212	4192.5326	23.	0.709
23843.732	4192.7928	19.	1.012
23842.549	4193.0009	13.	0.405
23841.596	4193.1685	31.	0.506
23840.862	4193.2976	49.	0.405
23839.898	4193.4671	75.	0.911
23838.332	4193.7427	38.	0.607
23837.209	4193.9401	67.	0.708
23835.066	4194.3173	36.	0.910
23833.915	4194.5198	59.	0.506
23832.971	4194.6860	66.	0.506
23832.052	4194.8478	23.	0.405
23831.164	4195.0040	19.	0.404
23829.901	4195.2264	84.	1.011
23828.591	4195.4570	55.	0.607
23827.003	4195.7367	56.	1.314

ASSIGNMENT
(v', v'', Branch J)

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4,3R5

4,2R21

6,2R26

5,3R12

4,3P4;3,2P17

8,4R10

4,3R6

5,3P11

10,3R28

4,2P20

6,2P25

4,3P5

8,4P9

5,2R24

4,3R7

5,3R13

8,4R11

10,3P27

4,3P6

3,2R19

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
23825.413	4196.0166	29.	0.707
23824.044	4196.2578	23.	0.808
23822.634	4196.5061	128.	0.909
23821.149	4196.7677	17.	0.505
23819.780	4197.0089	74.	1.212
23815.554	4197.7537	65.	0.808
23813.653	4198.0889	100.	0.404
23812.495	4198.2930	105.	0.707
23811.119	4198.5357	39.	0.606
23810.060	4198.7223	60.	0.606
23808.988	4198.9115	43.	0.505
23807.919	4199.0999	171.	0.807
23805.573	4199.5138	102.	1.816
23803.190	4199.9342	118.	0.706
23801.748	4200.1887	29.	0.605
23799.962	4200.5038	84.	0.706
23799.086	4200.6584	31.	0.504
23797.676	4200.9074	109.	0.907
23795.893	4201.2222	40.	0.504
23795.026	4201.3752	25.	0.403
23794.067	4201.5446	14.	0.403
23792.562	4201.8103	23.	0.504
23791.330	4202.0279	216.	1.007
23789.254	4202.3947	63.	0.705
23787.166	4202.7635	47.	0.503
23786.345	4202.9085	89.	0.604
23784.579	4203.2207	75.	0.503
23783.589	4203.3956	75.	0.503
23782.334	4203.6175	25.	0.504
23780.729	4203.9011	43.	1.208
23778.928	4204.2196	97.	0.604
23777.962	4204.3903	86.	0.604
23776.965	4204.5666	24.	0.402
23775.800	4204.7726	32.	0.704
23774.244	4205.0480	112.	1.408
23772.295	4205.3927	56.	0.704
23771.276	4205.5730	22.	0.402
23769.722	4205.8478	202.	1.106
23767.797	4206.1886	27.	0.503
23766.670	4206.3880	67.	0.804
23764.990	4206.6853	61.	0.703
23763.601	4206.9313	22.	0.804
23761.956	4207.2226	153.	1.105
23760.864	4207.4159	58.	0.502
23758.689	4207.8010	29.	0.703
23756.975	4208.1046	110.	0.904
23755.778	4208.3166	64.	0.602
23754.323	4208.5744	16.	0.401
23753.562	4208.7092	32.	0.502
23752.878	4208.8304	49.	0.502
23751.745	4209.0311	73.	0.602
23750.647	4209.2259	52.	0.602
23749.493	4209.4304	15.	0.502
23747.728	4209.7432	28.	0.502
23746.690	4209.9272	23.	0.602
23745.344	4210.1659	63.	0.602
23744.187	4210.3711	132.	0.702
23742.688	4210.6369	30.	0.602
23741.131	4210.9130	90.	0.702
23739.924	4211.1270	31.	0.702

5,2P23

8,4P10;5,3P12
4,3R8

3,2P18

4,2R22

4,3P7

8,4R12

6,2R27
5,3R14

4,3R9

4,2P21

8,4P11

4,3P8

5,3P13

10,3R29

6,2P26

5,2R25

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)
23737.798	4211.5043	74.	0.701
23736.688	4211.7312	69.	0.701
23735.077	4211.9870	84.	1.302
23732.530	4212.4391	19.	1.002
23730.910	4212.7268	225.	1.001
23729.177	4213.0344	55.	1.001
23727.058	4213.4106	27.	0.601
23725.778	4213.6380	36.	0.801
23724.591	4213.8487	46.	0.600
23723.226	4214.0912	44.	1.001
23721.259	4214.4389	15.	0.500
23719.571	4214.7407	58.	0.700
23718.323	4214.9624	73.	0.700
23717.106	4215.1787	23.	0.500
23716.060	4215.3645	15.	0.400
23715.136	4215.5289	30.	0.600
23713.603	4215.8013	36.	0.500
23712.652	4215.9704	45.	0.500
23711.407	4216.1917	550.	1.000
23709.242	4216.5767	187.	0.700
23707.904	4216.8147	107.	0.899
23706.086	4217.1381	34.	0.799
23704.598	4217.4028	72.	0.599
23703.732	4217.5569	52.	0.499
23702.800	4217.7229	36.	0.599
23700.729	4218.0914	73.	0.799
23699.023	4218.3951	28.	0.799
23697.627	4218.6435	43.	0.599
23696.653	4218.8168	22.	0.399
23695.647	4218.9961	19.	0.399
23694.088	4219.2737	171.	1.696
23691.581	4219.7201	94.	0.898
23689.060	4220.1692	31.	0.698
23687.390	4220.4667	25.	0.598
23686.159	4220.6861	50.	0.798
23685.017	4220.8896	14.	0.399
23683.739	4221.1173	78.	0.698
23682.532	4221.3324	155.	0.698
23680.638	4221.6700	80.	1.594
23678.707	4222.0143	84.	0.897
23677.662	4222.2007	40.	0.398
23676.200	4222.4615	86.	1.594
23674.463	4222.7712	47.	0.697
23672.821	4223.0643	18.	0.498
23671.587	4223.2843	168.	0.797
23670.358	4223.5037	79.	0.697
23669.059	4223.7355	28.	0.498
23667.934	4223.9363	29.	0.498
23665.951	4224.2901	60.	0.597
23665.100	4224.4420	105.	0.697
23662.997	4224.8175	98.	0.995
23661.243	4225.1306	127.	0.395
23659.754	4225.3966	27.	0.398
23658.920	4225.5456	58.	0.696
23657.064	4225.8771	63.	1.292
23654.635	4226.3110	45.	0.696
23652.303	4226.7276	216.	1.093
23651.029	4226.9554	28.	0.497
23649.958	4227.1468	39.	0.695
23648.436	4227.4188	99.	0.795

3,2R20

8,4R13;4,3R10

5,3R15;4,3P9

3,2P19

10,3P28;5,2P24

8,4P12

3,3R0

3,3R1

5,3P14

4,3R11

3,3R3

8,4R14

3,3R4

4,2P22

4,3P10

6,2R28

				ASSIGNMENT
WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
23647.443	4227.5965	39.	0.596	
23644.957	4228.0409	126.	0.794	3,3R5
23643.229	4228.3498	121.	0.695	8,4P13
23642.274	4228.5206	70.	0.595	
23640.292	4228.8752	110.	0.695	5,3R16
23638.725	4229.1556	114.	0.893	3,2R21
23637.245	4229.4204	20.	0.496	
23636.018	4229.6398	104.	0.794	
23634.733	4229.8699	70.	0.794	3,3P4
23632.553	4230.2601	31.	0.694	
23631.044	4230.5301	18.	0.496	
23629.525	4230.8022	120.	0.892	4,3R12
23627.665	4231.1352	54.	0.793	
23626.325	4231.3753	17.	0.496	
23625.139	4231.5876	25.	0.793	
23624.002	4231.7912	27.	0.496	
23623.229	4231.9298	54.	0.396	
23622.549	4232.0516	99.	0.495	5,2R26
23621.584	4232.2245	46.	0.396	
23620.818	4232.3618	40.	0.396	
23619.546	4232.5717	155.	0.991	3,3R6
23617.664	4232.9270	120.	0.792	6,2P27
23615.645	4233.2888	27.	0.891	
23613.933	4233.5958	74.	0.693	
23612.601	4233.8346	37.	0.594	
23611.052	4234.1123	163.	1.089	5,3P15;3,2P20
23609.660	4234.3620	39.	0.495	
23608.816	4234.5133	41.	0.396	
23607.689	4234.7156	126.	0.890	8,4R15;3,3P5
23606.297	4234.9653	124.	0.389	4,3P11
23604.924	4235.2116	27.	0.593	
23603.006	4235.5558	21.	0.494	
23601.988	4235.7384	35.	0.396	
23600.837	4235.9450	180.	0.890	
23598.540	4236.3573	48.	0.494	
23597.605	4236.5251	136.	0.494	
23596.608	4236.7043	150.	0.692	
23594.977	4236.9971	146.	1.186	
23593.528	4237.2574	83.	0.494	
23592.412	4237.4578	29.	0.593	
23591.324	4237.6531	34.	0.395	
23590.312	4237.8349	396.	0.691	3,3R7
23589.337	4238.0100	342.	0.494	5,2P25
23588.224	4238.2100	195.	0.691	
23587.412	4238.3560	58.	0.395	
23586.495	4238.5209	43.	0.494	
23585.540	4238.6925	61.	0.395	
23584.972	4238.7945	80.	0.395	
23584.163	4238.9399	51.	0.395	
23583.124	4239.1266	148.	0.790	
23581.607	4239.3993	82.	0.691	
23580.598	4239.5808	27.	0.395	
23579.354	4239.8044	62.	1.085	
23578.237	4240.0054	60.	0.395	
23577.308	4240.1724	85.	0.493	8,4P14
23576.228	4240.3666	68.	0.493	
23575.551	4240.4884	54.	0.493	
23574.539	4240.6704	44.	0.592	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	ASSIGNMENT
				(v', v'', Branch J)
23562.281	4242.8766	15.	0.676	
23560.948	4243.1167	29.	0.675	
23558.525	4243.5531	17.	0.482	
23557.431	4243.7501	26.	0.482	
23555.487	4244.1003	151.	1.254	3,3R8
23553.915	4244.3837	149.	0.675	
23552.125	4244.7062	187.	1.157	
23550.408	4245.0158	187.	0.868	
23548.870	4245.2929	55.	0.675	
23547.399	4245.5583	487.	1.253	4,3P12
23545.472	4245.9057	41.	0.674	
23544.169	4246.1406	68.	0.573	
23542.677	4246.4098	76.	0.578	
23541.599	4246.6043	31.	0.385	
23540.016	4246.8898	337.	0.674	3,3P7
23538.931	4247.0855	204.	0.481	8,4R16
23537.180	4247.4016	64.	0.481	
23536.178	4247.5823	105.	0.578	
23533.655	4248.0378	337.	1.925	
23530.827	4248.5482	72.	0.770	
23529.186	4248.8446	76.	0.962	
23527.210	4249.2014	113.	0.865	
23524.973	4249.6054	39.	0.577	
23523.666	4249.8416	43.	0.577	
23522.309	4250.0868	302.	0.961	
23521.031	4250.3177	46.	0.577	
23519.512	4250.5923	61.	0.573	
23518.475	4250.7797	69.	0.576	
23517.540	4250.9487	40.	0.384	
23516.482	4251.1400	191.	0.768	3,3R9
23514.990	4251.4097	26.	0.384	
23514.315	4251.5316	38.	0.480	
23513.343	4251.7075	60.	0.480	
23512.228	4251.9091	146.	0.864	
23509.811	4252.3462	274.	0.864	4,3R14
23508.252	4252.6283	81.	0.480	8,4P15
23506.873	4252.8777	102.	1.440	
23505.027	4253.2116	17.	0.960	
23503.265	4253.5306	14.	0.384	
23502.479	4253.6727	15.	0.480	
23501.191	4253.9059	49.	0.671	
23499.914	4254.1371	162.	0.767	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
23498.644	4254.3670	730.	0.767
23497.273	4254.6154	78.	0.959
23495.417	4254.9513	139.	0.671
23493.547	4255.2901	55.	0.671
23492.604	4255.4608	44.	0.479
23490.869	4255.7752	41.	0.671
23488.895	4256.1328	81.	0.766
23487.516	4256.3827	144.	0.766
23486.057	4256.6471	47.	0.575
23484.912	4256.8546	179.	0.575
23483.793	4257.0576	250.	0.670
23482.708	4257.2542	65.	0.574
23481.238	4257.5207	60.	0.766
23479.230	4257.8849	60.	0.670
23478.140	4258.0825	32.	0.574
23476.946	4258.2991	30.	0.478
23475.715	4258.5225	82.	0.670
23474.572	4258.7298	114.	0.574
23473.555	4258.9142	103.	0.478
23472.418	4259.1206	209.	1.148
23471.062	4259.3667	29.	0.382
23469.963	4259.5661	38.	1.052
23468.177	4259.8902	172.	0.956
23466.547	4260.1862	266.	0.765
23465.011	4260.4651	113.	1.147
23462.702	4260.8843	86.	0.764
23460.847	4261.2212	38.	0.382
23460.135	4261.3505	60.	0.478
23459.259	4261.5096	66.	0.573
23458.240	4261.6948	33.	0.478
23457.092	4261.9034	37.	0.764
23455.297	4262.2295	52.	0.573
23453.497	4262.5567	337.	1.050
23452.159	4262.7998	82.	0.668
23450.953	4263.0191	29.	0.573
23449.775	4263.2333	29.	0.573
23448.476	4263.4695	48.	0.572
23447.436	4263.6586	50.	0.477
23446.333	4263.8592	70.	0.763
23444.379	4264.2145	131.	0.858
23443.039	4264.4582	274.	0.572
23442.057	4264.6369	76.	0.477
23440.829	4264.8603	26.	0.572
23439.804	4265.0468	55.	0.572
23438.594	4265.2671	52.	0.858
23437.174	4265.5254	139.	0.762
23435.444	4265.8403	85.	0.858
23433.044	4266.2772	107.	1.143
23431.827	4266.4988	47.	0.571
23429.026	4267.0089	71.	1.143
23426.902	4267.3958	51.	0.571
23425.867	4267.5842	28.	0.381
23424.225	4267.8835	337.	0.761
23422.999	4268.1068	107.	0.571
23422.107	4268.2694	46.	0.476
23419.891	4268.6733	111.	1.522
23417.580	4269.0945	135.	0.856
23415.595	4269.4564	225.	0.761
23414.093	4269.7303	65.	0.856
23412.953	4269.9382	60.	0.475

5,3R18

4,3P13

3,3R10

8,4R17

5,3P17;3,3P9

4,3R15

8,4P16

3,3R11

2,3R4

4,3P14

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
23411.671	4270.1721	102.	0.760	2,3P3
23409.715	4270.5288	30.	0.475	
23408.478	4270.7545	56.	1.045	
23406.281	4271.1553	159.	0.855	
23404.146	4271.5450	34.	0.380	3,3P10
23403.058	4271.7436	584.	1.140	5,3R19
23400.696	4272.1748	250.	1.044	2,3R5
23399.373	4272.4164	110.	0.475	
23398.272	4272.6174	179.	0.570	
23397.287	4272.7973	69.	0.380	
23394.990	4273.2168	9750.	2.752	
23392.495	4273.6726	135.	0.854	
23390.573	4274.0238	110.	0.474	
23389.493	4274.2211	191.	0.664	8,4R18;2,3P4
23388.182	4274.4607	114.	0.853	
23386.243	4274.8151	625.	0.758	
23384.840	4275.0715	274.	0.853	
23383.445	4275.3266	48.	0.853	
23381.428	4275.6954	66.	0.948	
23380.071	4275.9436	52.	0.663	
23378.402	4276.2490	62.	1.421	
23376.358	4276.6229	66.	1.042	
23374.382	4276.9844	149.	0.758	2,3R6
23373.128	4277.2138	87.	0.663	
23371.817	4277.4538	274.	0.568	4,3R16
23370.872	4277.6267	219.	0.568	3,3R12
23369.637	4277.8527	32.	0.757	
23367.651	4278.2164	154.	0.852	5,3P18
23366.354	4278.4538	35.	0.473	
23365.523	4278.6060	25.	0.378	
23364.205	4278.8473	91.	0.946	
23362.354	4279.1863	124.	1.230	2,3P5
23360.341	4279.5552	65.	1.229	
23358.703	4279.8552	66.	0.851	
23357.217	4280.1275	122.	0.756	
23356.123	4280.3280	191.	0.567	
23354.851	4280.5612	144.	0.756	8,4P17
23353.432	4280.8213	165.	0.756	
23352.149	4281.0564	41.	0.661	
23350.987	4281.2694	13.	0.472	
23349.496	4281.5428	172.	0.756	
23348.439	4281.7367	250.	0.661	3,3P11
23346.004	4282.1833	21.	0.472	
23344.639	4282.4337	237.	1.039	2,3R7
23343.073	4282.7210	274.	0.755	4,3P15
23341.922	4282.9321	15.	0.378	
23340.861	4283.1269	35.	0.472	
23339.721	4283.3361	179.	0.944	
23337.186	4283.8014	67.	0.755	
23336.057	4284.0086	27.	0.472	
23335.187	4284.1684	22.	0.377	
23332.728	4284.6198	110.	1.509	
23330.866	4284.9619	110.	0.660	2,3P6
23329.085	4285.2890	119.	1.508	
23327.107	4285.6523	31.	0.565	
23325.477	4285.9517	54.	1.036	
23324.055	4286.2131	13.	0.471	
23322.649	4286.4714	30.	0.942	
23320.922	4286.7890	120.	0.753	
23318.983	4287.1454	34.	0.471	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
23317.782	4287.3662	108.	0.847
23316.623	4287.5792	36.	0.471
23314.743	4287.9250	142.	1.035
23313.164	4288.2155	292.	0.941
23311.698	4288.4852	179.	0.847
23310.046	4288.7892	144.	1.035
23308.606	4289.0541	102.	0.658
23307.090	4289.3330	57.	0.564
23304.808	4289.7531	256.	0.658
23303.210	4290.0472	58.	1.034
23301.264	4290.4054	34.	0.564
23300.300	4290.5830	21.	0.376
23299.156	4290.7937	72.	0.940
23297.167	4291.1601	165.	0.752
23295.784	4291.4149	191.	0.939
23294.443	4291.6619	135.	0.564
23293.198	4291.8913	100.	0.751
23292.239	4292.0679	34.	0.376
23290.558	4292.3778	172.	0.845
23289.174	4292.6328	313.	0.845
23287.218	4292.9933	14.	0.469
23286.215	4293.1782	26.	0.657
23284.986	4293.4050	50.	0.563
23284.015	4293.5839	39.	0.469
23281.036	4294.1335	124.	1.688
23279.097	4294.4911	28.	0.469
23277.927	4294.7068	179.	0.750
23275.864	4295.0875	22.	0.563
23274.408	4295.3562	47.	0.562
23273.661	4295.4940	47.	0.469
23272.484	4295.7115	116.	0.750
23270.477	4296.0819	149.	1.687
23268.374	4296.4701	61.	0.843
23266.326	4296.8483	237.	1.499
23264.032	4297.2721	69.	1.779
23261.936	4297.6593	33.	0.468
23260.852	4297.8595	165.	0.655
23260.010	4298.0152	85.	0.468
23258.700	4298.2572	25.	0.468
23257.208	4298.5330	32.	0.468
23256.411	4298.6804	53.	0.655
23255.253	4298.8944	36.	0.561
23253.512	4299.2161	673.	0.743
23252.545	4299.3950	113.	0.655
23250.683	4299.7393	243.	1.496
23249.122	4300.0280	21.	0.374
23247.746	4300.2826	103.	0.841
23246.586	4300.4971	36.	0.467
23245.275	4300.7396	71.	1.122
23243.595	4301.0505	46.	0.561
23242.400	4301.2717	91.	0.841
23241.125	4301.5076	29.	0.561
23240.219	4301.6753	22.	0.374
23239.279	4301.8493	46.	0.654
23237.538	4302.1717	27.	0.840
23236.584	4302.3482	36.	0.467
23235.378	4302.5716	57.	0.840
23234.274	4302.7760	62.	0.560
23233.140	4302.9861	75.	0.560
23232.092	4303.1802	86.	0.560

3,3R13
5,3R20
2,3R8
8,4R19

4,3R17
2,3P7

3,3P12

5,3P19

8,4P18
2,3R9

4,3P16

2,3P8

3,3R14

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)
23230.972	4303.3276	38.	0.560
23229.771	4303.6102	41.	0.560
23228.499	4303.8458	51.	1.026
23226.490	4304.2180	127.	0.560
23225.402	4304.4197	274.	0.653
23223.555	4304.7620	83.	0.466
23222.516	4304.9546	50.	0.839
23220.785	4305.2756	116.	0.746
23219.838	4305.4512	31.	0.373
23218.799	4305.6437	209.	0.746
23217.746	4305.8390	57.	0.466
23216.836	4306.0078	38.	0.373
23215.391	4306.2759	350.	1.398
23213.752	4306.5799	15.	0.373
23212.953	4306.7282	35.	0.466
23211.931	4306.9177	102.	0.838
23210.397	4307.2026	25.	0.559
23209.089	4307.4452	110.	0.838
23207.811	4307.6824	133.	0.466
23206.620	4307.9034	9750.	0.838
23205.370	4308.1356	103.	0.652
23203.705	4308.4448	42.	0.745
23201.315	4308.8886	65.	1.303
23199.917	4309.1481	67.	0.558
23198.691	4309.3759	50.	0.558
23197.591	4309.5804	70.	0.558
23196.513	4309.7806	50.	0.465
23194.562	4310.1430	94.	0.837
23192.128	4310.5954	258.	1.487
23190.350	4310.9259	40.	1.022
23188.357	4311.2965	68.	1.394
23186.116	4311.7132	111.	0.743
23184.839	4311.9505	219.	0.550
23183.621	4312.1773	214.	1.022
23182.342	4312.4151	52.	0.557
23180.275	4312.7996	70.	0.836
23179.068	4313.0241	26.	0.464
23177.588	4313.2996	135.	0.928
23174.638	4313.8487	28.	0.557
23173.448	4314.0703	72.	0.649
23172.221	4314.2986	25.	0.464
23170.923	4314.5403	54.	1.020
23169.621	4314.7828	40.	0.556
23168.039	4315.0775	302.	1.391
23166.075	4315.4432	33.	0.742
23165.222	4315.6021	21.	0.371
23163.085	4316.0004	67.	1.298
23161.485	4316.2985	39.	0.556
23159.920	4316.5901	34.	0.927
23157.113	4317.1134	324.	1.575
23155.493	4317.4155	27.	0.463
23154.051	4317.6843	79.	0.741
23152.779	4317.9216	24.	0.648
23150.407	4318.3641	61.	0.648
23149.232	4318.5833	55.	0.555
23148.032	4318.8071	42.	0.555
23146.657	4319.0637	113.	1.018
23144.390	4319.4867	43.	0.555
23143.531	4319.6470	36.	0.555
23142.428	4319.8528	22.	0.462

2,3R10

3,3P13

8,4R20

5,3R21

4,3R18

2,3P9

8,4P19

5,3P20;4,3P17

3,3R15

2,3R11

3,3P14;2,3P10

ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
23141.411	4320.0428	17.	0.555
23140.327	4320.2451	14.	0.647
23138.636	4320.5609	15.	1.572
23136.992	4320.8678	13.	0.555
23135.608	4321.1263	52.	0.647
23134.217	4321.3862	84.	1.017
23132.952	4321.6226	43.	0.462
23130.854	4322.0145	250.	1.109
23128.409	4322.4713	24.	0.646
23126.309	4322.8639	40.	0.554
23124.060	4323.2844	103.	0.646
23123.008	4323.4810	33.	0.738
23121.524	4323.7585	175.	0.831
23120.256	4323.9957	34.	0.461
23119.556	4324.1265	29.	0.554
23116.639	4324.6722	13.	0.330
23115.424	4324.8996	13.	0.646
23113.957	4325.1740	68.	1.199
23112.049	4325.5312	165.	0.738
23110.775	4325.7696	9750.	0.922
23108.600	4326.1766	62.	0.461
23107.665	4326.3518	75.	0.645
23105.771	4326.7064	30.	1.106
23104.634	4326.9193	21.	0.369
23103.681	4327.0978	52.	0.553
23102.374	4327.3427	124.	0.321
23100.991	4327.6017	42.	0.737
23099.176	4327.9417	258.	0.829
23098.099	4328.1435	52.	0.368
23097.103	4328.3301	42.	0.552
23095.753	4328.5832	111.	1.013
23094.198	4328.8747	41.	0.736
23092.596	4329.1750	45.	0.460
23091.768	4329.3302	26.	0.460
23090.724	4329.5259	12.	0.368
23089.435	4329.7676	67.	0.736
23087.510	4330.1286	21.	0.644
23086.030	4330.4063	139.	1.103
23084.294	4330.7318	199.	0.919
23082.358	4331.0952	110.	0.735
23081.221	4331.3085	34.	0.551
23080.529	4331.4384	34.	0.460
23079.302	4331.6687	55.	0.735
23077.709	4331.9678	55.	0.735
23076.145	4332.2614	23.	1.102
23074.195	4332.6273	117.	1.653
23072.510	4332.9438	14.	0.459
23071.532	4333.1274	23.	0.459
23070.005	4333.4144	33.	0.551
23068.614	4333.6756	120.	0.826
23067.134	4333.9538	73.	0.734
23065.780	4334.2081	108.	0.642
23064.758	4334.4002	49.	0.459
23063.683	4334.6022	80.	0.642
23062.430	4334.8377	47.	0.642
23060.205	4335.2560	33.	1.101
23059.112	4335.4615	24.	0.550
23057.307	4335.8009	15.	0.367
23056.407	4335.9701	21.	0.550
23054.755	4336.2808	23.	1.008

8,4R21

4,3R19

2,3R12

5,3R22

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2,3R13

ASSIGNMENT

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
23053.283	4336.5577	89.	0.825	
23050.720	4337.0399	41.	0.458	
23049.614	4337.2479	36.	0.641	
23047.811	4337.5872	35.	0.641	
23045.936	4337.9402	30.	0.458	
23044.936	4338.1255	32.	0.458	
23043.974	4338.3096	72.	0.549	
23042.973	4338.4980	129.	0.732	2,3P12
23041.895	4338.7011	175.	0.458	4,3R20
23041.226	4338.8269	66.	0.366	8,4R22
23040.595	4338.9458	35.	0.366	
23039.455	4339.1604	80.	0.732	
23038.071	4339.4211	59.	0.824	
23035.556	4339.8949	159.	1.098	3,3R17
23034.280	4340.1353	15.	0.457	
23032.215	4340.5244	23.	1.006	
23030.038	4340.9349	12.	0.549	
23028.826	4341.1632	17.	0.823	
23027.478	4341.4175	16.	0.731	
23025.575	4341.7761	76.	0.914	
23024.345	4342.0081	26.	0.365	
23023.495	4342.1684	48.	0.457	
23022.829	4342.2941	39.	0.548	
23021.258	4342.5905	36.	0.548	
23020.022	4342.8236	179.	0.639	5,3R23
23019.221	4342.9746	39.	0.457	
23017.791	4343.2445	27.	0.730	
23015.216	4343.7304	35.	0.639	
23013.924	4343.9742	17.	0.456	
23012.750	4344.1959	76.	0.913	
23011.586	4344.4157	33.	0.365	
23010.922	4344.5411	52.	0.365	
23010.105	4344.6953	56.	0.365	
23009.020	4344.9001	258.	0.912	4,3P19
23007.013	4345.2793	199.	0.730	3,3P16
23005.811	4345.5062	28.	0.547	
23003.909	4345.8656	18.	0.365	
23002.741	4346.0862	106.	0.821	2,3R14
23001.313	4346.3551	90.	0.729	8,4P21
22999.647	4346.6710	21.	0.638	
22998.253	4346.9343	22.	0.547	
22997.051	4347.1615	24.	0.547	
22995.760	4347.4056	44.	0.547	
22994.943	4347.5600	78.	0.547	
22993.211	4347.8876	25.	0.455	
22991.779	4348.1584	51.	1.184	
22989.713	4348.5491	36.	0.637	
22988.790	4348.7236	38.	0.455	
22987.803	4348.9105	44.	0.637	
22986.355	4349.1844	85.	0.728	
22983.616	4349.7028	157.	1.001	5,3P22
22982.296	4349.9526	29.	0.455	
22980.535	4350.2858	78.	1.092	
22978.866	4350.6018	129.	0.819	2,3P13
22977.515	4350.8576	52.	0.637	
22975.950	4351.1540	69.	0.818	
22974.827	4351.3667	23.	0.364	
22974.004	4351.5227	23.	0.364	
22972.522	4351.8033	66.	0.727	
22970.891	4352.1122	103.	0.909	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
22968.924	4352.4251	183.	0.818	
22967.661	4352.7244	116.	0.454	
22966.573	4352.9306	103.	0.317	
22965.234	4353.1844	46.	0.636	
22964.070	4353.4051	20.	0.363	
22962.890	4353.6287	56.	1.090	
22961.315	4353.9274	16.	0.635	
22960.147	4354.1489	21.	0.635	
22958.422	4354.4761	17.	0.545	
22956.544	4354.8322	35.	0.726	
22954.869	4355.1501	172.	0.816	3,3R18
22953.036	4355.4979	23.	0.635	
22951.572	4355.7758	16.	0.635	
22950.270	4356.0229	25.	0.453	
22949.390	4356.1899	38.	0.363	
22948.313	4356.3942	191.	0.907	4,3R21
22946.876	4356.6672	58.	0.635	
22945.595	4356.9104	38.	0.634	
22944.145	4357.1856	48.	0.544	8,4R23
22942.507	4357.4967	25.	0.634	
22940.476	4357.8826	63.	0.815	
22939.038	4358.1558	33.	0.543	
22937.865	4358.3786	36.	0.725	
22936.109	4358.7122	86.	0.996	4,4R5
22934.808	4358.9536	93.	0.996	2,3R15
22932.225	4359.4506	49.	0.634	
22931.131	4359.6585	32.	0.543	
22930.022	4359.8694	81.	0.633	
22928.841	4360.0939	122.	0.633	
22926.969	4360.4499	52.	0.633	
22925.379	4360.7524	187.	0.724	3,3P17
22923.887	4361.0361	29.	1.176	
22922.353	4361.3280	17.	0.633	
22921.027	4361.5803	14.	0.723	
22920.096	4361.7576	13.	0.362	
22919.762	4361.9544	51.	0.542	
22918.092	4362.1390	31.	0.452	
22916.657	4362.4121	61.	0.633	
22915.758	4362.7165	209.	0.723	4,3P20
22914.185	4362.8827	167.	0.632	5,3R24
22912.682	4363.1689	37.	0.452	
22911.869	4363.3238	104.	0.632	4,4R6
22910.107	4363.6593	114.	0.993	2,3P14
22908.657	4363.9356	16.	0.722	
22907.360	4364.1826	17.	0.451	
22906.592	4364.3289	16.	0.361	
22905.031	4364.6265	28.	0.632	
22903.082	4364.9978	85.	0.722	8,4P22
22901.963	4365.2111	32.	0.541	
22901.028	4365.3893	63.	0.451	
22899.911	4365.6022	74.	0.812	
22898.608	4365.8507	22.	0.541	
22897.752	4366.0138	14.	0.361	
22896.502	4366.2524	42.	1.082	
22895.183	4366.5038	26.	0.451	
22894.205	4366.6904	22.	0.541	
22892.712	4366.9751	39.	0.631	
22891.381	4367.2290	72.	0.631	
22889.558	4367.5769	30.	0.451	
22888.006	4367.8731	82.	0.721	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
22887.004	4363.0643	15.	0.360
22886.047	4363.2470	35.	0.540
22884.325	4368.5756	57.	0.540
22883.404	4368.7515	45.	0.540
22881.439	4369.1266	17.	0.540
22879.802	4369.4392	17.	0.540
22878.274	4369.7311	96.	0.630
22877.310	4369.9152	176.	0.720
22876.139	4370.1390	30.	0.360
22875.075	4370.3422	46.	0.990
22873.561	4370.6314	64.	0.630
22871.589	4371.0082	54.	0.630
22869.594	4371.3896	159.	0.809
22868.324	4371.6323	35.	0.539
22867.586	4371.7735	33.	0.539
22866.763	4371.9308	14.	0.360
22865.104	4372.2480	32.	0.629
22864.008	4372.4576	30.	0.539
22862.638	4372.7196	84.	0.899
22860.218	4373.1826	23.	0.539
22858.572	4373.4975	43.	0.898
22856.864	4373.8242	34.	0.629
22855.527	4374.0802	56.	0.808
22854.118	4374.3498	16.	0.539
22852.763	4374.6092	38.	0.898
22851.537	4374.8439	113.	0.539
22850.534	4375.0359	200.	0.713
22849.480	4375.2377	28.	0.359
22848.820	4375.3642	33.	0.538
22847.475	4375.6218	46.	0.987
22845.865	4375.9301	625.	0.897
22844.583	4376.1756	42.	0.628
22842.952	4376.4882	42.	0.717
22841.710	4376.7261	13.	0.448
22840.565	4376.9455	36.	0.628
22839.304	4377.1872	218.	0.807
22838.310	4377.3776	28.	0.448
22836.982	4377.6321	141.	0.807
22835.098	4377.9934	27.	0.538
22833.228	4378.3520	35.	0.538
22832.275	4378.5346	42.	0.537
22830.642	4378.8480	36.	0.717
22829.175	4379.1293	26.	0.627
22827.723	4379.4078	34.	0.358
22826.835	4379.5782	95.	0.895
22825.076	4379.9157	15.	0.358
22823.706	4380.1786	43.	0.537
22822.876	4380.3378	34.	0.537
22821.889	4380.5273	15.	0.447
22819.723	4380.9433	38.	0.805
22818.235	4381.2289	16.	0.894
22816.479	4381.5661	213.	0.894
22814.074	4382.0279	53.	0.536
22813.209	4382.1940	54.	0.447
22812.203	4382.3874	99.	0.447
22811.348	4382.5516	85.	0.536
22809.685	4382.8711	68.	0.804
22808.070	4383.1814	23.	0.447
22807.261	4383.3370	28.	0.357
22806.136	4383.5532	10990.	1.340

4,4R7

5,3P23

3,3R19

4,4P6

2,3R16

7,5R3

4,4R8;4,3R22

8,4R24

3,3P18

7,5R4

2,3P15

4,4P7

7,5R5

4,3P21

4,4R9

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
22804.322	4383.9019	147.	0.893	5,3R25
22803.001	4384.1558	32.	0.625	
22801.016	4384.5375	78.	0.536	8,4P23
22800.281	4384.6790	100.	0.625	
22798.424	4385.0361	18.	0.446	
22796.781	4385.3522	34.	0.282	7,5R6
22794.945	4385.7052	32.	0.535	
22793.922	4385.9021	70.	0.803	4,4P8
22792.510	4386.1739	26.	0.446	
22791.247	4386.4169	57.	1.338	
22789.444	4386.7640	31.	0.713	
22788.069	4387.0287	14.	0.446	
22786.954	4387.2433	27.	0.535	
22785.654	4387.4936	91.	0.802	2,3R17
22783.732	4387.8638	28.	0.535	
22782.856	4388.0325	32.	0.535	7,5P5
22781.040	4388.3823	26.	0.446	
22779.881	4388.6055	179.	1.158	3,3R20
22778.042	4388.9600	26.	0.713	
22776.584	4389.2408	44.	1.158	
22775.108	4389.5254	17.	0.534	
22774.201	4389.7001	17.	0.534	
22773.196	4389.8938	13.	0.356	
22772.231	4390.0799	29.	0.445	
22771.270	4390.2651	55.	0.623	4,4R10
22769.717	4390.5646	84.	0.890	7,5R7
22768.429	4390.8130	38.	0.445	
22767.158	4391.0582	179.	0.801	5,3P24
22765.984	4391.2845	24.	0.534	
22764.875	4391.4984	22.	0.801	
22763.579	4391.7486	36.	0.534	
22762.363	4391.9831	125.	0.623	
22761.096	4392.2277	25.	0.356	
22760.170	4392.4064	100.	0.445	
22759.057	4392.6211	147.	0.889	2,3P16
22756.243	4393.0291	82.	0.978	
22755.777	4393.2542	34.	0.533	
22754.790	4393.4447	27.	0.533	
22753.577	4393.6791	36.	0.800	7,5P6
22751.443	4394.0912	15.	0.888	
22749.948	4394.3799	33.	0.533	4,4P9
22748.501	4394.6594	294.	1.421	4,3R23;3,3P19
22746.859	4394.9767	50.	0.521	
22745.752	4395.1906	25.	0.532	
22744.866	4395.3618	16.	0.444	
22743.509	4395.6241	14.	0.444	
22742.548	4395.8098	14.	0.532	
22741.455	4396.0210	20.	0.521	
22740.521	4396.2017	19.	0.355	
22739.432	4396.4122	46.	0.798	
22738.145	4396.6610	54.	0.795	7,5R8;8,4R25
22735.634	4397.1467	19.	0.798	
22734.434	4397.3787	27.	0.532	
22732.582	4397.7369	18.	0.355	
22731.466	4397.9528	73.	0.798	
22730.141	4398.2093	110.	0.520	
22728.363	4398.5534	40.	0.798	
22726.286	4398.9553	24.	0.520	
22724.945	4399.2150	78.	0.797	4,4R11
22722.670	4399.6554	77.	1.063	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
22721.369	4399.9073	21.	0.354	7,5P7
22720.604	4400.0554	23.	0.443	
22719.646	4400.2409	28.	0.443	
22718.502	4400.4625	47.	0.620	4,3P22
22717.094	4400.7354	29.	0.620	
22715.754	4400.9950	61.	0.973	
22713.789	4401.3756	193.	0.885	4,3P22
22712.132	4401.6968	51.	0.796	
22710.251	4402.0614	37.	0.619	
22708.913	4402.3206	21.	0.973	2,3R18
22707.664	4402.5629	16.	0.442	
22706.567	4402.7757	14.	0.530	
22705.532	4402.9762	34.	0.530	7,5R9
22703.929	4403.2871	68.	0.707	
22702.513	4403.5618	50.	0.530	
22701.402	4403.7772	39.	0.795	4,4P10
22699.678	4404.1118	31.	0.618	
22697.754	4404.4851	70.	0.883	
22696.380	4404.7518	10990.	0.971	8,4P24
22695.006	4405.0184	81.	0.883	
22692.997	4405.4084	56.	0.706	
22690.611	4405.8716	244.	1.059	5,3R26
22688.562	4406.2695	36.	0.529	
22687.656	4406.4454	36.	0.353	
22686.839	4406.6041	51.	0.529	3,3R21
22685.535	4406.8477	109.	0.706	
22684.359	4407.0860	46.	0.617	
22682.712	4407.4059	12.	0.353	7,5P8
22681.615	4407.6191	28.	0.617	
22680.454	4407.8448	39.	0.617	
22679.307	4408.0677	28.	0.617	3,4R5
22678.095	4408.3032	39.	0.617	
22676.849	4408.5455	121.	0.617	
22676.027	4408.7054	26.	0.353	4,4R12
22674.200	4409.0605	77.	0.705	
22672.920	4409.3095	106.	0.617	
22670.870	4409.7082	23.	0.705	
22669.761	4409.9239	29.	0.617	
22667.868	4410.2921	30.	0.528	
22666.908	4410.4789	62.	0.704	
22665.606	4410.7324	13.	0.528	
22664.449	4410.9575	24.	0.528	
22663.379	4411.1658	40.	0.616	7,5R10
22662.343	4411.3674	60.	0.528	
22661.195	4411.5910	57.	0.792	
22659.982	4411.8271	18.	0.528	
22658.689	4412.0789	17.	0.528	
22657.473	4412.3155	22.	0.616	
22655.993	4412.6038	18.	0.440	3,4R6; 3,3P20
22654.091	4412.9744	250.	0.791	
22652.825	4413.2210	135.	0.703	
22651.240	4413.5297	17.	0.527	4,4P11
22650.305	4413.7120	16.	0.439	
22649.273	4413.9130	54.	0.703	
22648.094	4414.1429	69.	0.791	
22646.732	4414.4083	22.	0.527	
22645.801	4414.5898	21.	0.351	
22644.995	4414.7469	25.	0.439	
22644.229	4414.8964	22.	0.351	
22643.151	4415.1066	999.	0.703	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
22642.389	4415.3137	139.	0.615	4,3R24
22640.862	4415.5529	58.	0.790	3,4P5
22639.328	4415.2520	43.	0.615	7,5P9
22637.569	4416.1951	35.	0.527	
22635.570	4416.5852	34.	0.678	
22634.236	4416.8455	38.	0.526	
22633.428	4417.0032	21.	0.351	
22632.412	4417.2015	49.	0.702	
22630.466	4417.5814	34.	0.789	
22629.128	4417.8425	46.	0.702	8,4R26
22627.959	4418.0708	67.	0.526	
22627.035	4418.2512	77.	0.526	
22625.651	4418.5215	119.	0.964	3,4R7
22624.279	4418.7894	33.	0.438	
22622.743	4419.0895	41.	0.701	
22620.891	4419.4513	22.	1.314	
22618.982	4419.8243	124.	0.701	4,4R13
22617.658	4420.0830	119.	0.876	7,5R11;2,3R19
22616.508	4420.3077	16.	0.438	
22615.623	4420.4808	12.	0.350	
22614.749	4420.6516	16.	0.525	
22614.037	4420.7907	14.	0.350	
22613.232	4420.9482	15.	0.438	
22612.538	4421.0837	15.	0.350	
22611.709	4421.2458	16.	0.438	
22610.401	4421.5017	65.	0.700	3,4P6
22608.691	4421.8361	22.	0.613	
22607.084	4422.1505	154.	0.787	4,3P23
22605.033	4422.5517	121.	0.612	
22603.351	4422.8807	39.	0.612	
22601.975	4423.1499	15.	0.612	
22600.958	4423.3492	22.	0.525	
22599.150	4423.7030	37.	0.525	
22598.268	4423.8756	67.	0.699	
22596.729	4424.1768	18.	0.350	
22596.799	4424.3003	24.	0.524	
22593.625	4424.7848	25.	0.437	
22592.769	4424.9524	139.	0.524	7,5P10;3,4R8
22591.999	4425.1031	102.	0.437	4,4P12
22591.167	4425.2661	32.	0.349	
22590.056	4425.4838	96.	0.786	2,3P18
22588.832	4425.7235	14.	0.349	
22586.970	4426.0884	108.	0.611	3,3R22
22586.038	4426.2712	49.	0.349	
22585.244	4426.4268	77.	0.698	8,4P25
22583.153	4426.8366	25.	0.524	
22581.133	4427.2326	10990.	1.658	
22579.685	4427.5164	29.	0.436	
22578.209	4427.8059	14.	0.523	
22575.473	4428.3426	74.	0.610	3,4P7
22573.943	4428.6427	48.	0.523	
22572.574	4428.9114	141.	0.872	5,3R27
22570.315	4429.3546	52.	0.784	
22569.081	4429.5967	66.	0.784	7,5R12
22567.467	4429.9135	38.	0.871	
22566.387	4430.1255	16.	0.436	
22565.145	4430.3694	99.	0.784	
22563.750	4430.6433	14.	0.348	
22562.982	4430.7941	29.	0.348	
22562.250	4430.9379	69.	0.522	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
22561.434	4431.0982	16.	0.348
22560.000	4431.3799	26.	0.348
22559.199	4431.5372	114.	0.609
22558.232	4431.7271	46.	0.435
22557.463	4431.8782	21.	0.435
22556.102	4432.1457	60.	0.609
22554.994	4432.3635	244.	0.870
22553.696	4432.6185	23.	0.609
22552.576	4432.8386	12.	0.348
22551.839	4432.9835	13.	0.435
22550.503	4433.2461	21.	0.609
22549.088	4433.5243	50.	1.130
22547.609	4433.8152	31.	0.783
22546.329	4434.0669	66.	0.695
22545.157	4434.2973	37.	0.695
22544.198	4434.4859	13.	0.348
22543.266	4434.6693	14.	0.348
22542.023	4434.9139	48.	0.695
22540.804	4435.1538	32.	0.695
22538.906	4435.5273	38.	1.042
22537.515	4435.8009	57.	0.608
22535.998	4436.0996	94.	0.695
22534.453	4436.4037	141.	1.302
22533.039	4436.6822	16.	0.434
22531.809	4436.9244	132.	0.781
22530.608	4437.1608	93.	0.781
22529.279	4437.4226	16.	0.521
22528.093	4437.6563	24.	0.607
22526.872	4437.8968	62.	0.607
22525.732	4438.1214	55.	0.694
22524.608	4438.3428	37.	0.694
22523.334	4438.5938	26.	0.694
22522.396	4438.7787	46.	0.520
22521.415	4438.9721	24.	0.520
22519.481	4439.3533	26.	1.300
22517.987	4439.6479	45.	0.520
22516.586	4439.9241	78.	1.040
22515.393	4440.1593	32.	0.347
22514.722	4440.2917	66.	0.520
22513.146	4440.6025	139.	0.866
22512.414	4440.7468	24.	0.346
22511.345	4440.9579	14.	0.520
22510.169	4441.1898	21.	0.606
22508.950	4441.4303	17.	0.520
22508.003	4441.6172	13.	0.346
22506.465	4441.9208	65.	0.606
22505.308	4442.1490	35.	0.692
22504.350	4442.3381	27.	0.433
22503.074	4442.5900	15.	1.038
22501.929	4442.8162	13.	0.433
22500.295	4443.1387	63.	1.038
22498.820	4443.4301	135.	0.779
22496.499	4443.8886	141.	1.124
22495.086	4444.1678	103.	0.692
22494.248	4444.3332	24.	0.346
22493.281	4444.5244	17.	0.519
22492.127	4444.7523	107.	0.605
22491.050	4444.9652	63.	0.605
22489.733	4445.2254	42.	1.037
22487.448	4445.6773	97.	1.210

4,4R14

3,4R19;3,3P21

7,5P11

3,4P8
5,3P26

4,3R25
4,4P13

2,3R20

7,5R13;8,4R27

3,4R10

2,3P19
4,3P24
4,4R15

3,4P9

7,5P12

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
22485.505	4446.0613	29.	0.777	
22484.068	4446.3455	90.	0.864	3,3R23
22482.961	4446.5645	68.	0.432	
22482.200	4446.7150	38.	0.432	
22481.346	4446.8840	16.	0.432	
22479.544	4447.2405	23.	0.604	
22478.278	4447.4909	16.	0.518	
22477.239	4447.6965	53.	0.604	2,4R2
22475.837	4447.9740	95.	0.949	
22474.295	4448.2792	18.	0.690	
22473.468	4448.4427	28.	0.431	
22472.246	4448.6847	102.	0.690	8,4P26
22471.090	4448.9135	69.	0.517	
22470.014	4449.1266	50.	0.776	
22468.667	4449.3933	14.	0.431	
22466.695	4449.7839	156.	1.121	3,4R11;2,4R3
22465.040	4450.1116	106.	0.862	4,4P14
22463.728	4450.3716	18.	0.517	
22462.016	4450.7107	16.	0.517	
22460.306	4451.0496	102.	0.689	
22459.246	4451.2596	67.	0.517	7,5R14
22458.228	4451.4614	34.	0.431	
22457.331	4451.6392	24.	0.517	
22456.103	4451.8827	82.	0.775	
22454.998	4452.1019	14.	0.344	
22453.301	4452.4384	36.	0.603	
22451.960	4452.7042	154.	0.861	2,4R4;3,3P22
22450.805	4452.9334	95.	0.430	5,3R28
22449.979	4453.0971	52.	0.516	
22449.064	4453.2787	31.	0.516	
22447.169	4453.6546	22.	0.516	
22446.592	4453.7691	19.	0.344	
22445.577	4453.9705	53.	0.602	
22443.522	4454.3784	122.	1.548	3,4P10;2,4P3
22441.577	4454.7645	38.	0.860	
22440.128	4455.0521	13.	0.430	
22438.744	4455.3269	13.	0.344	
22437.388	4455.5960	71.	1.375	
22435.901	4455.8914	82.	0.601	
22434.042	4456.2606	43.	0.687	
22432.611	4456.5449	108.	0.773	2,4R5;2,3R21
22431.363	4456.7929	40.	0.601	
22429.868	4457.0900	31.	0.859	
22427.971	4457.4669	92.	0.859	7,5P13
22426.684	4457.7227	90.	0.687	4,4R16
22425.431	4457.9718	16.	0.687	
22423.878	4458.2807	42.	0.772	
22421.776	4458.6986	63.	0.853	2,4P4
22420.421	4458.9680	76.	0.686	
22418.950	4459.2606	36.	0.343	
22417.112	4459.6263	121.	0.686	4,3R26
22415.404	4459.9661	135.	1.200	3,4R12
22413.995	4460.2464	14.	0.600	
22412.611	4460.5218	109.	0.943	5,3P27
22411.238	4460.7951	15.	0.343	
22410.484	4460.9452	70.	0.428	
22409.602	4461.1207	30.	0.514	
22408.471	4461.3459	99.	0.942	2,4R6
22406.933	4461.6522	435.	0.771	
22405.849	4461.8680	30.	0.428	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)	(v', v'', Branch J)
22404.964	4462.3444	16.	0.343	
22403.324	4462.3708	77.	1.199	2,3P20
22401.959	4462.6428	23.	0.514	
22400.346	4462.9641	28.	0.599	8,4R28
22399.244	4463.1837	64.	0.685	
22398.019	4463.4278	150.	0.770	7,5R15
22396.492	4463.7321	33.	0.428	
22395.432	4463.9435	87.	1.198	4,4P15;2,4P5
22393.407	4464.3472	12.	0.342	
22392.717	4464.4848	13.	0.342	
22390.832	4464.8605	125.	1.112	3,4P11
22389.545	4465.1171	16.	0.428	
22387.860	4465.4533	10990.	0.769	
22386.778	4465.6690	15.	0.427	
22386.015	4465.8214	15.	0.427	
22384.339	4466.1557	41.	1.538	
22382.382	4466.5462	132.	0.513	
22381.370	4466.7482	122.	0.598	4,3P25
22380.103	4467.0009	238.	0.354	2,4R7
22379.008	4467.2197	27.	0.512	
22377.697	4467.4814	35.	0.939	
22376.566	4467.7070	70.	0.583	3,3R24
22375.116	4467.9966	17.	0.341	
22374.283	4468.1631	14.	0.512	
22373.509	4468.3176	16.	0.341	
22372.806	4468.4580	13.	0.341	
22371.183	4468.7822	30.	0.597	
22369.278	4469.1627	64.	0.583	
22368.315	4469.3551	50.	0.427	
22366.683	4469.6813	88.	0.426	
22365.080	4470.0017	159.	0.853	7,5P14;2,4P6
22363.560	4470.3055	22.	1.023	
22362.276	4470.5622	16.	0.512	
22361.214	4470.7745	19.	0.597	
22360.053	4471.0066	134.	0.852	3,4R13
22358.666	4471.2839	29.	0.511	
22357.781	4471.4610	35.	0.341	
22356.980	4471.6212	61.	0.596	
22355.357	4471.9457	32.	0.582	8,4P27
22353.796	4472.2580	118.	1.278	4,4R17
22351.716	4472.6743	47.	0.852	
22350.313	4472.9551	15.	0.596	
22348.785	4473.2610	43.	0.596	
22347.654	4473.4873	51.	0.426	
22346.828	4473.6526	122.	0.511	2,4R8
22345.839	4473.8506	68.	0.596	
22344.234	4474.1719	103.	0.596	3,3P23
22343.313	4474.3564	70.	0.425	
22342.594	4474.5004	23.	0.340	
22340.531	4474.9136	16.	0.580	
22339.200	4475.1803	30.	0.595	
22338.537	4475.3130	21.	0.425	
22337.418	4475.5373	33.	0.595	
22336.092	4475.8029	87.	0.850	
22334.898	4476.0423	84.	0.595	
22333.880	4476.2463	113.	0.510	3,4P12
22332.731	4476.4766	82.	0.765	7,5R16;2,3R22
22331.525	4476.7184	54.	0.595	
22330.177	4476.9886	106.	1.020	2,4P7
22328.714	4477.2818	12.	0.510	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
22327.390	4477.5475	14.	0.595	
22326.180	4477.7900	18.	0.510	
22325.017	4478.0234	73.	0.764	5,3R29
22322.589	4478.5103	32.	0.679	
22321.159	4478.7973	67.	0.679	4,4P16
22320.019	4479.0261	23.	0.594	
22318.897	4479.2513	20.	0.509	
22317.443	4479.5431	24.	0.424	
22316.484	4479.7356	51.	0.594	
22315.473	4479.9385	22.	0.509	
22314.500	4480.1339	16.	0.424	
22313.326	4480.3697	44.	0.678	
22312.410	4480.5535	17.	0.339	
22310.567	4480.9236	122.	0.848	
22309.156	4481.2070	135.	0.848	2,4R9
22308.027	4481.4339	31.	0.424	
22306.556	4481.7294	50.	0.508	
22305.422	4481.9572	59.	0.332	
22304.276	4482.1875	134.	0.508	
22303.122	4482.4194	110.	0.678	2,3P21
22301.937	4482.6578	26.	0.508	
22301.155	4482.8149	20.	0.339	
22300.099	4483.0271	154.	0.847	3,4R14
22298.121	4483.4248	75.	1.270	7,5P15;4,3R27
22296.610	4483.7287	28.	0.423	
22295.552	4483.9414	24.	0.762	
22294.265	4484.2003	33.	0.423	
22293.383	4484.3777	42.	0.508	
22292.661	4484.5230	26.	0.508	
22290.443	4484.9692	135.	1.607	2,4P8
22287.638	4485.5337	99.	0.761	
22286.653	4485.7319	102.	0.592	5,3P28
22285.382	4485.9877	15.	0.338	
22284.359	4486.1938	36.	0.345	
22283.425	4486.3818	17.	0.335	
22282.482	4486.5716	24.	0.592	
22280.223	4487.0264	33.	0.592	8,4R29
22279.186	4487.2354	22.	0.760	
22278.092	4487.4556	14.	0.507	
22276.929	4487.6899	97.	0.845	4,4R18
22275.351	4488.0079	33.	1.014	
22274.242	4488.2314	15.	0.338	
22273.519	4488.3771	15.	0.338	
22272.502	4488.5821	124.	0.675	3,4P13
22271.766	4488.7304	45.	0.422	
22270.660	4488.9532	40.	0.675	
22269.195	4489.2485	48.	1.266	
22266.797	4489.7320	124.	1.013	2,4R10
22265.027	4490.0890	47.	0.591	3,3R25
22264.190	4490.2578	33.	0.422	
22263.312	4490.4349	69.	0.506	7,5R17
22262.555	4490.5876	117.	0.506	4,3P26
22261.344	4490.8318	67.	0.928	
22259.915	4491.1202	70.	0.759	
22258.507	4491.4042	15.	0.590	
22257.323	4491.6432	26.	0.506	
22255.916	4491.9271	20.	0.927	
22254.591	4492.1946	19.	0.590	1,4R0
22253.603	4492.3941	21.	0.421	1,4R1
22252.797	4492.5568	32.	0.506	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
22251.932	4492.7313	37.	0.590	
22249.785	4493.1649	31.	0.674	
22248.680	4493.3281	17.	0.421	
22247.757	4493.5745	26.	0.505	1,4R2
22246.411	4493.8464	108.	0.842	2,4P9
22245.208	4494.0833	16.	0.421	
22244.320	4494.2638	26.	0.505	
22243.562	4494.4219	28.	0.337	1,4P1
22242.776	4494.5807	76.	0.589	4,4P17
22241.663	4494.8057	19.	0.337	
22240.768	4494.9865	46.	0.673	
22239.149	4495.3139	45.	0.841	
22238.126	4495.5205	44.	0.421	
22237.337	4495.6801	33.	0.421	1,4R3
22235.789	4495.9930	130.	0.757	3,4R15
22234.589	4496.2357	73.	0.673	8,4P28
22232.536	4496.6510	65.	0.757	3,3P24
22230.960	4496.9697	73.	0.757	1,4P2
22229.815	4497.2014	14.	0.420	
22229.080	4497.3501	17.	0.336	
22228.462	4497.4750	17.	0.420	
22226.854	4497.8005	68.	1.176	7,5P16
22225.599	4498.0544	21.	0.336	
22224.707	4498.2350	38.	0.756	
22222.649	4498.6516	37.	1.092	1,4R4
22220.009	4499.1861	150.	0.756	2,4R11
22218.871	4499.4165	22.	0.504	
22217.641	4499.6655	21.	0.839	
22216.239	4499.9496	30.	0.671	
22215.208	4500.1584	25.	0.420	
22213.844	4500.4347	33.	0.671	1,4P3
22212.500	4500.7072	37.	0.503	
22211.730	4500.8631	49.	0.587	
22209.444	4501.3264	31.	0.503	
22208.501	4501.5175	49.	0.922	
22206.760	4501.8703	121.	1.258	3,4P14
22205.167	4502.1934	85.	0.754	
22204.103	4502.4092	15.	0.419	
22202.811	4502.6711	43.	0.587	1,4R5
22201.793	4502.8776	28.	0.754	
22200.508	4503.1382	33.	0.670	
22199.393	4503.3645	26.	0.419	
22198.732	4503.4985	45.	0.419	2,3P22
22197.948	4503.6576	99.	0.503	2,4P10
22197.096	4503.8305	54.	0.586	
22195.554	4504.1432	159.	0.921	4,4R19;5,3R30
22194.643	4504.3233	33.	0.419	
22192.305	4504.8027	38.	0.670	1,4P4
22190.745	4505.1194	39.	0.502	
22189.701	4505.3313	108.	0.753	7,5R18
22188.552	4505.5647	49.	0.586	
22187.634	4505.7512	22.	0.418	
22186.615	4505.9581	23.	0.337	
22185.327	4506.2198	10990.	0.586	
22184.265	4506.4354	30.	0.585	
22183.285	4506.6345	18.	0.335	
22181.960	4506.9037	38.	0.334	
22181.295	4507.0388	21.	0.334	
22180.170	4507.2674	37.	1.003	
22178.621	4507.5823	53.	0.585	1,4R6

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
22177.442	4507.8220	71.	0.669
22175.623	4508.1916	62.	0.836
22173.814	4508.5594	23.	1.003
22172.140	4508.8998	16.	0.334
22171.175	4509.0960	44.	0.334
22170.532	4509.2268	19.	0.334
22169.839	4509.3677	16.	0.334
22168.724	4509.5946	152.	0.835
22166.998	4509.9459	270.	0.751
22165.982	4510.1525	57.	0.501
22164.609	4510.4319	21.	0.417
22163.869	4510.5825	17.	0.334
22163.070	4510.7450	22.	0.417
22162.295	4510.9028	909.	0.417
22161.462	4511.0725	28.	0.501
22160.366	4511.2954	50.	0.667
22159.172	4511.5385	39.	0.834
22157.891	4511.7994	23.	0.500
22157.233	4511.9335	35.	0.417
22156.331	4512.1171	67.	0.584
22155.412	4512.3042	60.	0.417
22048.754	4534.1324	103.	1.207
22046.682	4534.5585	64.	1.509
22043.601	4535.1923	30.	0.704
22041.519	4535.6207	77.	0.905
22039.699	4535.9952	36.	0.804
22038.242	4536.2952	21.	0.502
22036.959	4536.5592	49.	0.804
22034.946	4536.9736	100.	2.009
22032.932	4537.3883	58.	0.804
22031.193	4537.7465	81.	1.004
22029.458	4538.1039	52.	1.004
22027.487	4538.5100	82.	0.803
22025.961	4538.8244	159.	0.903
22024.179	4539.1916	103.	0.903
22022.870	4539.4616	43.	0.502
22021.770	4539.6882	58.	0.502
22020.413	4539.9680	137.	0.903
22018.664	4540.3287	33.	0.401
22017.764	4540.5142	45.	0.502
22016.358	4540.8042	465.	0.902
22014.957	4541.0932	79.	0.902
22013.383	4541.4179	179.	1.002
22011.835	4541.7373	42.	0.702
22010.544	4542.0037	46.	0.802
22009.108	4542.2999	36.	0.802
22007.421	4542.6481	23.	0.601
22006.116	4542.9175	53.	0.701
22005.110	4543.1252	40.	0.601
22003.570	4543.4431	57.	1.001
22001.411	4543.8890	25.	0.501
22000.330	4544.1123	51.	0.801
21998.469	4544.4969	78.	0.901
21997.116	4544.7763	90.	0.700
21996.164	4544.9730	35.	0.500
21994.967	4545.2203	23.	0.400
21993.663	4545.4898	51.	0.900
21992.291	4545.7735	16.	0.400
21991.139	4546.0115	37.	0.300
21989.631	4546.3234	91.	1.000

2,4R12

3,4R16

1,4P5

4,4P18

1,4R10

2,4P13

4,4R21

3,4R18;1,4P9

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
21988.220	4546.6150	60.	0.500	1,4R11
21987.343	4546.7965	129.	0.700	2,4R15
21986.145	4547.0443	54.	0.700	
21984.546	4547.3749	55.	0.500	
21983.385	4547.6150	212.	0.999	4,4P20;3,4P17
21981.833	4547.9361	58.	0.699	
21980.291	4548.2553	31.	0.999	
21978.640	4548.5969	48.	0.999	
21976.961	4548.9443	67.	1.198	
21974.774	4549.3971	40.	0.599	
21973.628	4549.6344	26.	0.599	
21972.928	4549.7794	22.	0.399	
21970.689	4550.2429	55.	1.397	
21969.071	4550.5781	24.	0.399	
21967.237	4550.9581	88.	1.297	1,4P10
21965.424	4551.3336	52.	0.898	
21963.426	4551.7478	14.	1.097	
21961.182	4552.2128	35.	0.798	
21959.458	4552.5702	129.	1.495	2,4P14
21957.514	4552.9732	86.	0.997	
21956.238	4553.2379	21.	0.399	
21954.873	4553.5210	13.	0.498	
21953.735	4553.7571	24.	0.598	
21952.081	4554.1001	90.	1.594	
21950.379	4554.4532	33.	0.598	
21949.192	4554.6995	41.	0.597	
21948.020	4554.9428	60.	0.697	
21946.537	4555.2505	58.	0.697	
21945.262	4555.5152	129.	0.995	
21942.469	4556.0952	28.	0.597	
21940.855	4556.4302	14.	0.597	
21939.121	4556.7905	55.	1.492	
21937.419	4557.1439	37.	0.497	
21936.020	4557.4346	80.	0.895	1,4R12
21934.433	4557.7644	179.	0.795	3,4R19
21933.307	4557.9984	61.	0.596	
21931.167	4558.4431	99.	0.894	
21929.634	4558.7618	54.	0.795	
21928.147	4559.0709	25.	0.795	
21926.564	4559.4001	212.	0.894	4,4R22
21925.279	4559.6673	75.	0.497	
21923.931	4559.9476	81.	0.794	
21921.474	4560.4587	53.	0.894	
21919.627	4560.8430	66.	0.794	
21917.722	4561.2394	155.	1.985	2,4R16
21915.837	4561.6318	14.	0.397	
21914.272	4561.9576	97.	0.694	1,4P11
21913.049	4562.2122	68.	0.694	
21911.906	4562.4502	25.	0.496	
21909.468	4562.9578	55.	0.892	
21908.196	4563.2227	90.	0.694	
21907.183	4563.4338	56.	0.496	
21905.231	4563.8404	109.	1.189	
21902.985	4564.3084	97.	0.694	7,5P20
21901.967	4564.5207	72.	0.595	
21900.673	4564.7903	184.	0.793	3,4P18
21898.863	4565.1676	44.	0.594	
21897.664	4565.4176	64.	0.693	
21896.727	4565.6130	27.	0.396	
21895.545	4565.8593	22.	0.792	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)
21893.964	4566.1891	31.	0.594
21892.886	4566.4139	90.	0.693
21891.328	4566.7339	56.	0.693
21888.924	4567.2404	184.	1.484
21887.118	4567.6174	129.	0.890
21884.336	4568.1979	97.	0.890
21883.002	4568.4765	88.	0.692
21881.845	4568.7179	28.	0.396
21880.976	4568.8995	36.	0.494
21879.401	4569.2283	67.	0.593
21878.313	4569.4557	35.	0.395
21877.403	4569.6456	36.	0.494
21875.987	4569.9415	54.	1.186
21874.639	4570.2230	22.	0.395
21873.375	4570.4871	78.	0.692
21870.843	4571.0162	75.	0.395
21870.050	4571.1822	90.	0.593
21868.717	4571.4608	93.	0.691
21866.570	4571.9097	39.	0.987
21865.286	4572.1780	29.	0.395
21864.347	4572.3744	41.	0.592
21863.268	4572.6001	33.	0.592
21861.753	4572.9169	26.	0.691
21860.194	4573.2431	64.	1.184
21857.414	4573.8248	32.	0.394
21856.316	4574.0546	194.	0.789
21855.020	4574.3257	57.	0.392
21853.217	4574.7033	42.	1.282
21850.921	4575.1838	134.	1.478
21849.060	4575.5737	53.	0.493
21847.941	4575.8080	200.	1.084
21845.952	4576.2246	35.	0.493
21845.057	4576.4120	67.	0.591
21843.798	4576.6758	134.	0.788
21841.228	4577.2143	49.	1.181
21838.925	4577.6971	53.	0.689
21836.734	4578.1563	35.	0.886
21835.412	4578.4336	58.	0.689
21833.623	4578.8088	26.	0.394
21832.518	4579.0405	44.	0.590
21830.743	4579.4128	99.	1.377
21828.454	4579.8931	166.	0.983
21827.304	4580.1343	25.	0.393
21825.838	4580.4419	55.	1.180
21823.997	4580.8284	45.	1.081
21822.435	4581.1563	39.	0.983
21820.975	4581.4629	35.	0.884
21818.975	4581.8828	25.	0.393
21817.918	4582.1048	88.	0.884
21816.399	4582.4238	45.	0.589
21815.511	4582.6103	43.	0.393
21814.001	4582.9275	225.	1.473
21811.959	4583.3565	108.	1.374
21809.918	4583.7855	25.	0.883
21807.805	4584.2296	67.	0.785
21806.247	4584.5570	66.	0.981
21804.812	4584.8588	29.	0.392
21803.791	4585.0737	59.	0.588
21802.798	4585.2823	30.	0.490
21800.924	4585.6765	53.	0.980

4,4P21;2,4P15

1,4R13

1,4P12

3,4R20

2,4R17

4,4R23

1,4R14

3,4P19;2,4P16

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
21799.318	4586.0144	59.	0.784
21798.216	4586.2462	29.	0.392
21796.892	4586.5249	38.	1.078
21795.551	4586.8071	30.	0.588
21793.935	4587.1472	81.	0.882
21792.348	4587.4812	66.	0.686
21791.089	4587.7462	117.	0.686
21789.769	4588.0243	152.	0.685
21788.665	4588.2566	49.	0.587
21787.405	4588.5220	37.	0.587
21786.283	4588.7582	30.	0.489
21784.769	4589.0773	97.	1.077
21783.451	4589.3548	113.	0.587
21781.020	4589.8672	83.	1.174
21778.848	4590.3248	35.	0.489
21777.275	4590.6565	115.	0.880
21774.600	4591.2204	60.	0.782
21772.526	4591.6578	40.	0.782
21770.514	4592.0822	74.	1.075
21769.033	4592.3946	36.	0.489
21767.787	4592.6574	40.	0.684
21766.423	4592.9452	47.	0.391
21765.343	4593.1731	155.	0.781
21763.122	4593.6420	109.	0.879
21761.632	4593.9564	38.	0.488
21760.282	4594.2415	96.	0.781
21759.057	4594.5001	95.	0.586
21757.587	4594.8106	249.	0.781
21756.419	4595.0573	61.	0.390
21755.289	4595.2958	88.	0.683
21753.916	4595.5858	97.	0.878
21752.060	4595.9780	140.	0.583
21750.987	4596.2047	100.	0.488
21749.079	4596.6079	166.	1.268
21746.795	4597.0907	303.	0.780
21745.461	4597.3727	233.	0.682
21743.591	4597.7681	121.	0.487
21742.442	4598.0112	155.	0.682
21740.817	4598.3547	218.	1.559
21719.221	4602.9272	6970.	39.950
21698.315	4607.3620	259.	0.776
21696.863	4607.6705	152.	0.582
21695.657	4607.9266	166.	0.573
21694.041	4608.2699	88.	0.776
21692.270	4608.6461	140.	1.163
21690.433	4609.0363	119.	1.163
21688.439	4609.4600	65.	0.872
21686.701	4609.8296	233.	1.356
21685.040	4610.1825	49.	0.484
21683.506	4610.5088	57.	0.387
21682.476	4610.7278	159.	0.678
21681.102	4611.0199	104.	0.871
21679.092	4611.4476	84.	0.678
21676.913	4611.9111	66.	0.677
21675.387	4612.2357	45.	0.871
21673.783	4612.5771	66.	0.967
21671.643	4613.0326	88.	0.774
21670.314	4613.3156	134.	0.677
21669.351	4613.5204	59.	0.483
21667.733	4613.8651	48.	0.677

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2,4R18

3,4R21

1,4R15

3,5R7;4,4P23

2,4R19

1,4R16

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(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)
21666.200	4514.1915	99.	0.570
21665.050	4514.4365	31.	0.387
21663.942	4514.6724	76.	0.676
21662.583	4514.8980	249.	0.773
21661.816	4515.1253	58.	0.483
21660.576	4515.3895	40.	0.580
21659.485	4515.6221	51.	0.580
21657.288	4516.0902	64.	1.159
21655.825	4516.4022	77.	0.579
21654.732	4516.6351	81.	0.772
21653.551	4516.8868	34.	0.483
21652.613	4517.0869	37.	0.386
21651.417	4517.3420	189.	0.869
21649.631	4517.7230	58.	0.965
21648.407	4517.9840	30.	0.482
21646.306	4518.4323	70.	0.675
21645.171	4518.6744	52.	0.772
21643.424	4519.0473	43.	0.964
21642.275	4519.2926	45.	0.578
21640.627	4519.6441	103.	0.868
21638.400	4520.1196	97.	1.253
21636.226	4520.5839	43.	0.574
21634.340	4520.9868	31.	0.674
21632.413	4521.3984	28.	0.770
21630.208	4521.8696	27.	0.963
21628.872	4522.1550	25.	0.481
21627.255	4522.5005	268.	1.540
21625.284	4522.9219	14.	0.481
21624.187	4523.1564	40.	0.577
21623.325	4523.3408	29.	0.481
21621.325	4523.7684	121.	0.673
21620.063	4524.0383	225.	0.673
21618.993	4524.2671	60.	0.481
21617.799	4524.5225	44.	0.573
21616.833	4524.7291	24.	0.385
21615.479	4525.0190	43.	0.673
21613.706	4525.3984	111.	1.634
21611.280	4525.9176	95.	0.865
21609.678	4526.2606	48.	0.961
21608.257	4526.5647	13.	0.384
21607.106	4526.8111	30.	0.576
21606.011	4527.0456	53.	0.576
21604.534	4527.3620	54.	0.480
21603.098	4527.6696	125.	0.864
21601.237	4528.0683	34.	0.672
21599.159	4528.5136	61.	0.576
21598.160	4528.7277	48.	0.576
21595.432	4529.3124	166.	1.343
21594.296	4529.5559	43.	0.384
21592.656	4529.9076	32.	1.247
21590.917	4530.2805	24.	0.575
21589.643	4530.5538	60.	0.575
21588.191	4530.8652	104.	1.054
21586.280	4531.2751	15.	0.767
21584.815	4531.5894	35.	0.767
21583.458	4531.8807	90.	0.862
21581.961	4532.2020	24.	0.575
21580.327	4532.5527	189.	1.341
21578.500	4532.9448	61.	1.149
21577.196	4533.2249	27.	0.479

3,4R22

1,4P15

3,5R8

2,4P18

3,4P21

4,4R25

3,5R9

1,4R17

6,6R6

3,5P8

2,4R20

4,4P24;1,4P16

3,5R10

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)	(v', v'', Branch J)
21576.273	4633.4232	32.	0.479	6,6R7
21574.816	4633.7361	36.	1.340	
21573.280	4634.0660	31.	0.479	
21572.423	4634.2500	32.	0.478	
21571.064	4634.5421	61.	0.861	3,4R23;2,4P19
21568.478	4635.0978	18.	1.526	
21566.862	4635.4450	22.	0.478	
21565.760	4635.6819	63.	0.574	
21563.775	4636.1085	349.	1.052	3,5P9
21560.340	4636.8473	24.	0.573	
21559.356	4637.0590	22.	0.478	
21558.523	4637.2380	25.	0.573	
21557.307	4637.4996	23.	0.573	6,6R8
21556.028	4637.7748	46.	0.573	
21554.979	4638.0005	54.	0.669	
21553.223	4638.3785	108.	0.669	
21552.053	4638.6303	38.	0.477	3,5R11
21551.020	4638.8525	44.	0.668	
21549.520	4639.1755	23.	0.477	
21548.498	4639.3955	16.	0.477	
21547.766	4639.5532	14.	0.477	3,4P22
21546.576	4639.8093	35.	0.573	
21545.461	4640.0495	30.	0.668	
21543.156	4640.5459	57.	0.859	
21541.936	4640.8088	37.	0.477	1,4R18
21541.276	4640.9509	30.	0.477	
21540.059	4641.2131	30.	0.572	
21538.907	4641.4614	41.	0.668	
21537.077	4641.8558	50.	0.667	6,6P7
21535.903	4642.1088	39.	0.667	
21534.443	4642.4236	86.	0.762	
21533.460	4642.6356	51.	0.572	
21531.948	4642.9616	45.	0.572	2,4R21
21530.414	4643.2923	81.	1.334	
21528.886	4643.6219	26.	0.381	
21527.576	4643.9045	205.	1.048	
21526.038	4644.2362	86.	0.857	1,4P17
21524.800	4644.5034	28.	0.381	
21523.814	4644.7161	72.	0.571	
21522.645	4644.9684	43.	0.666	
21520.658	4645.3972	14.	0.571	6,6R9;3,5P10;4,4R26
21519.587	4645.6286	13.	0.571	
21518.326	4645.9007	76.	0.666	
21516.798	4646.2307	43.	1.142	
21515.164	4646.5835	76.	0.761	2,5R5
21513.873	4646.8625	25.	0.571	
21512.187	4647.2265	27.	0.571	
21511.280	4647.4224	48.	0.475	
21509.688	4647.7664	233.	1.616	2,4R21
21508.034	4648.1238	47.	0.475	
21506.852	4648.3795	26.	0.570	
21504.448	4648.8990	44.	0.570	
21503.369	4649.1323	121.	0.855	1,4P17
21502.104	4649.4059	29.	0.570	
21499.693	4649.9273	81.	1.709	
21497.929	4650.3089	23.	0.475	
21496.439	4650.6311	113.	1.424	2,5R5
21494.831	4650.9790	22.	0.569	
21493.023	4651.3702	75.	0.664	
21491.153	4651.7750	88.	0.569	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)	(v', v'', Branch J)
21490.278	4651.9644	54.	0.379	
21489.488	4652.1354	33.	0.569	
21488.376	4652.3762	16.	0.379	
21487.623	4652.5392	17.	0.379	
21486.512	4652.7799	38.	0.569	6,6P8
21485.345	4653.0325	108.	0.758	3,5R12
21483.882	4653.3493	41.	0.758	
21482.446	4653.6604	25.	0.474	
21481.243	4653.9210	42.	0.758	
21480.215	4654.1437	37.	0.379	
21479.411	4654.3180	60.	0.474	2,5P4
21478.525	4654.5099	51.	0.474	
21477.348	4654.7652	63.	0.663	
21476.305	4654.9911	16.	0.379	
21474.227	4655.4415	63.	1.326	
21472.463	4655.8240	40.	0.473	
21471.531	4656.0261	125.	0.473	2,4P20
21469.717	4656.4196	212.	0.852	4,4P25
21468.238	4656.7403	108.	0.757	2,5R6
21467.088	4656.9898	29.	0.568	
21464.784	4657.4896	29.	1.703	
21462.977	4657.8819	16.	0.568	
21461.101	4658.2889	140.	1.418	3,4R24
21459.524	4658.6313	81.	0.567	
21458.631	4658.8252	90.	0.562	3,5P11
21456.800	4659.2228	31.	0.378	
21455.793	4659.4415	82.	0.851	
21454.079	4659.8137	71.	0.945	2,5P5
21452.516	4660.1533	14.	0.472	
21450.564	4660.5772	33.	0.567	
21448.013	4661.1317	35.	0.944	
21446.958	4661.3609	29.	0.378	
21445.634	4661.6487	103.	1.133	6,6P9
21444.202	4661.9599	19.	0.378	
21443.233	4662.1707	32.	0.661	
21441.947	4662.4503	62.	0.755	1,4R19
21440.771	4662.7059	113.	0.661	2,5R7
21439.490	4662.9846	27.	0.755	
21438.477	4663.2049	27.	0.472	
21437.331	4663.4542	46.	0.566	
21436.397	4663.6575	48.	0.472	
21435.102	4663.9393	77.	0.754	
21433.341	4664.3225	24.	0.377	
21432.269	4664.5557	205.	1.037	3,5R13
21430.908	4664.8519	29.	0.566	
21429.622	4665.1319	15.	0.565	
21428.415	4665.3947	51.	0.565	6,6R11
21427.457	4665.6033	29.	0.471	
21425.843	4665.9548	27.	0.471	
21424.387	4666.2719	166.	1.319	2,5P6; 3,4P23
21422.802	4666.6172	23.	0.565	
21420.774	4667.0588	20.	0.565	
21418.911	4667.4647	42.	0.753	
21417.196	4667.8386	45.	0.565	
21415.765	4668.1505	39.	0.471	
21414.857	4668.3483	59.	0.659	1,4P18
21413.360	4668.6747	86.	0.941	
21412.151	4668.9384	46.	0.564	
21410.531	4669.2916	19.	0.564	
21409.225	4669.5765	146.	0.940	2,5R8

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	
21407.486	4669.9558	109.	0.558	2,4R22
21406.029	4670.2738	47.	0.564	
21404.717	4670.5601	44.	0.658	
21403.634	4670.7962	57.	0.564	3,5P12
21402.584	4671.0255	23.	0.470	
21401.061	4671.3578	40.	0.752	6,6P10
21399.744	4671.6453	27.	0.558	
21398.367	4671.9460	17.	0.845	
21396.963	4672.2527	27.	0.470	
21395.680	4672.5328	121.	1.315	4,4R27
21393.833	4672.9362	26.	0.845	
21390.958	4673.5642	106.	0.751	2,5P7
21388.897	4674.0146	77.	1.126	
21387.496	4674.3207	33.	0.563	
21386.387	4674.5631	15.	0.375	
21385.199	4674.8229	46.	0.657	
21384.283	4675.0230	37.	0.469	
21383.124	4675.2765	30.	0.656	
21381.793	4675.5675	131.	0.844	6,6R12
21379.788	4676.0060	34.	0.844	
21378.379	4676.3141	53.	0.562	
21377.267	4676.5573	26.	0.375	
21376.133	4676.8056	57.	0.562	
21374.882	4677.0793	205.	1.124	3,5R14;2,4P21
21372.755	4677.5446	185.	1.311	2,5R9
21370.964	4677.9367	39.	0.562	
21369.234	4678.1622	36.	0.562	
21368.143	4678.5543	37.	0.468	
21367.008	4678.8029	57.	0.655	
21364.303	4679.3952	37.	0.562	
21362.940	4679.6938	76.	1.123	
21361.630	4679.9809	89.	0.561	
21360.184	4680.2975	67.	1.123	
21359.140	4680.5263	51.	0.468	
21358.099	4680.7546	57.	0.655	
21356.999	4680.9956	28.	0.468	
21355.578	4681.3070	205.	0.935	4,4P26
21353.546	4681.7525	196.	0.561	3,4R25
21352.423	4681.9989	192.	0.841	6,6P11;2,5P8;1,4R20
21350.647	4682.3882	63.	1.402	
21348.988	4682.7521	26.	0.841	
21347.527	4683.0725	29.	0.934	
21344.894	4683.6502	116.	1.494	3,5P13
21343.143	4684.0345	34.	0.467	
21342.157	4684.2509	73.	0.654	
21340.232	4684.6736	31.	0.373	
21339.465	4684.8419	65.	0.653	
21338.274	4685.1033	63.	0.653	
21336.847	4685.4167	35.	0.560	
21335.810	4685.6445	15.	0.560	
21334.405	4685.9530	47.	0.653	
21333.602	4686.1294	59.	0.466	
21332.465	4686.3793	196.	0.746	2,5R10
21331.330	4686.6286	99.	0.560	6,6R13
21330.148	4686.8882	73.	0.559	
21329.287	4687.0774	32.	0.373	
21328.135	4687.3306	49.	0.653	
21327.415	4687.4888	36.	0.373	
21325.868	4687.8290	75.	0.559	1,4P19
21324.837	4688.0555	81.	0.746	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
21323.419	4688.3673	81.	0.559
21322.744	4688.5156	71.	0.466
21321.628	4688.7611	31.	0.559
21320.110	4689.0950	27.	0.559
21319.014	4689.3359	24.	0.652
21317.612	4689.6445	92.	0.466
21316.584	4689.8706	200.	0.652
21314.980	4690.2236	47.	1.117
21312.949	4690.6706	149.	0.931
21311.388	4691.0142	76.	0.651
21310.354	4691.2416	165.	0.465
21309.576	4691.4130	53.	0.372
21308.262	4691.7022	178.	1.115
21306.756	4692.0338	96.	0.930
21305.415	4692.3292	89.	0.558
21304.202	4692.5963	124.	0.744
21302.299	4693.0156	24.	0.558
21300.580	4693.3943	40.	0.465
21299.585	4693.6137	83.	0.551
21298.517	4693.8490	49.	0.465
21297.472	4694.0792	98.	0.650
21295.611	4694.4895	34.	0.557
21294.252	4694.7891	87.	0.929
21293.271	4695.0055	41.	0.464
21292.074	4695.2693	39.	0.650
21290.471	4695.6228	21.	0.650
21288.988	4695.9501	41.	0.650
21287.560	4696.2651	188.	1.114
21285.074	4696.8134	107.	1.113
21283.574	4697.1445	59.	0.742
21282.026	4697.4862	43.	0.464
21281.192	4697.6704	87.	0.556
21279.567	4698.0290	118.	1.298
21277.953	4698.3855	149.	0.834
21276.807	4698.6384	91.	0.556
21274.632	4699.1187	149.	1.020
21272.603	4699.5671	24.	0.927
21270.740	4699.9786	63.	0.834
21269.178	4700.3238	33.	0.926
21267.557	4700.6821	136.	0.741
21266.520	4700.9113	29.	0.463
21264.625	4701.3301	87.	0.555
21263.338	4701.6147	152.	1.018
21261.427	4702.0375	110.	0.925
21260.111	4702.3284	29.	0.463
21258.781	4702.6226	47.	1.110
21256.848	4703.0503	13.	0.463
21255.167	4703.4222	33.	0.555
21253.544	4703.7814	36.	0.462
21252.749	4703.9574	74.	0.647
21250.885	4704.3701	248.	0.647
21249.877	4704.5931	73.	0.555
21248.838	4704.8231	28.	0.462
21246.986	4705.2333	261.	1.016
21244.625	4705.7562	66.	0.739
21243.106	4706.0928	91.	0.647
21242.122	4706.3107	138.	0.554
21241.311	4706.4904	36.	0.369
21239.687	4706.8503	66.	0.831
21238.411	4707.1330	303.	0.646

3,4P24

3,5R15

2,5P9

2,4R23

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6,6P12

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4,4R28

6,6R14

2,4P22

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1,4R21

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3,5R16

6,6P13

3,4R26

2,5R15;1,5R6

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
21237.442	4707.3477	157.	0.462
21236.607	4707.5329	49.	0.369
21235.579	4707.7608	36.	0.554
21234.262	4708.0527	77.	0.461
21233.314	4708.2631	107.	0.554
21232.172	4708.5163	58.	0.554
21230.648	4708.8542	229.	0.922
21228.671	4709.2928	16.	0.369
21227.756	4709.4958	27.	0.645
21226.466	4709.7820	57.	0.738
21225.031	4710.1004	107.	1.014
21223.978	4710.3340	60.	0.369
21223.118	4710.5250	44.	0.645
21221.414	4710.9033	22.	0.737
21220.202	4711.1722	22.	0.369
21219.432	4711.3433	28.	0.461
21218.327	4711.5886	96.	0.645
21216.253	4712.0492	27.	0.553
21215.373	4712.2446	15.	0.460
21213.803	4712.5933	110.	0.737
21212.577	4712.8657	181.	0.736
21210.607	4713.3035	235.	1.012
21209.421	4713.5671	35.	0.460
21207.326	4713.8994	15.	1.380
21205.299	4714.4833	224.	0.828
21203.210	4714.9478	82.	0.552
21202.390	4715.1301	129.	0.552
21201.489	4715.3306	110.	0.460
21200.409	4715.5707	68.	0.644
21199.063	4715.8703	37.	0.643
21196.754	4716.3840	41.	0.460
21195.875	4716.5795	62.	0.368
21195.019	4716.7701	214.	0.643
21193.726	4717.0577	23.	0.643
21192.092	4717.4216	70.	0.459
21191.039	4717.6559	71.	0.735
21189.377	4718.0259	23.	0.551
21188.041	4718.3234	51.	0.643
21186.618	4718.6404	48.	0.551
21184.776	4719.0506	259.	0.915
21183.445	4719.3470	44.	0.551
21182.468	4719.5649	63.	0.459
21181.602	4719.7578	37.	0.367
21180.962	4719.9005	46.	0.459
21179.879	4720.1417	118.	0.642
21178.561	4720.4355	136.	0.734
21176.818	4720.8239	254.	0.734
21175.682	4721.0773	46.	0.452
21173.759	4721.5060	70.	0.733
21172.075	4721.8817	85.	0.733
21170.030	4722.3378	248.	0.916
21168.477	4722.6841	37.	0.458
21167.078	4722.9963	94.	1.374
21164.850	4723.4934	44.	0.733
21163.319	4723.8353	45.	0.641
21161.090	4724.3329	181.	0.732
21158.316	4724.9523	59.	0.641
21157.424	4725.1514	209.	0.641
21155.980	4725.4740	138.	1.281
21154.447	4725.8163	79.	0.549

1,4P20

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6,6R15

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6,6P14

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1,5P7;1,4R22

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6,6R16;4,4R29

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)	
21152.907	4726.1605	145.	0.915	
21151.606	4726.4512	74.	0.732	
21150.330	4726.7362	54.	0.549	
21149.340	4726.9577	15.	0.366	
21148.433	4727.1604	49.	0.549	
21146.872	4727.5093	28.	0.640	
21145.793	4727.7505	30.	0.366	
21144.955	4727.9379	46.	0.548	
21141.917	4728.6172	348.	1.370	3,5P16;1,5R9
21138.992	4729.2717	25.	0.913	
21137.644	4729.5731	36.	0.548	
21136.395	4729.8527	111.	0.730	
21135.205	4730.1189	22.	0.365	
21134.376	4730.3046	85.	0.639	1,4P21
21133.341	4730.5362	40.	0.456	
21132.117	4730.8101	23.	0.365	
21131.253	4731.0037	57.	0.639	
21130.080	4731.2662	30.	0.456	
21128.308	4731.6631	58.	0.730	
21126.875	4731.9840	427.	0.912	2,5R14;3,4R27
21125.375	4732.3200	133.	0.730	
21123.954	4732.6360	44.	0.638	
21122.679	4732.9239	143.	0.729	1,5P8
21121.380	4733.2150	26.	0.456	
21120.271	4733.4637	107.	0.820	
21119.066	4733.7337	51.	0.456	
21118.067	4733.9578	67.	0.456	6,6P15
21117.124	4734.1691	93.	0.547	
21115.712	4734.4857	178.	0.820	4,4P28
21113.752	4734.9252	92.	0.729	
21112.327	4735.2448	33.	0.728	
21110.767	4735.5947	32.	0.728	
21109.635	4735.8487	37.	0.819	
21108.158	4736.1799	57.	0.819	
21106.319	4736.5928	119.	0.546	
21105.561	4736.7628	77.	0.546	
21103.989	4737.1156	27.	1.001	
21102.456	4737.4597	209.	0.910	3,5R18
21100.795	4737.8327	181.	1.273	1,5R10
21099.014	4738.2327	39.	0.455	
21097.908	4738.4810	219.	0.727	2,5P13
21096.492	4738.7990	27.	0.636	
21094.970	4739.1409	66.	0.636	
21093.560	4739.4577	67.	0.636	2,4R25
21092.332	4739.7337	21.	0.454	
21091.166	4739.9957	53.	0.636	
21089.372	4740.3990	165.	1.817	6,6R17;3,4P26
21087.305	4740.8636	38.	0.908	
21085.341	4741.3051	70.	0.636	
21084.410	4741.5147	44.	0.545	
21081.829	4742.0951	30.	0.998	
21080.139	4742.4753	160.	0.998	1,5P9
21078.297	4742.8897	83.	0.454	
21077.420	4743.0871	68.	0.363	
21076.285	4743.3424	165.	1.179	
21073.740	4743.9153	43.	0.725	
21072.433	4744.2096	41.	0.635	
21071.041	4744.5230	39.	0.725	
21069.455	4744.8802	105.	0.997	
21066.476	4745.5511	200.	0.815	3,5P17

ASSIGNMENT
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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
21064.498	4745.9968	285.	0.906
21063.255	4746.2769	23.	0.362
21062.398	4746.4700	30.	0.453
21061.243	4746.7302	104.	0.634
21060.106	4746.9864	34.	0.543
21058.534	4747.3410	116.	1.358
21057.034	4747.6792	22.	0.453
21055.659	4747.9823	336.	0.995
21053.686	4748.4340	42.	0.543
21051.804	4748.8585	39.	0.995
21049.753	4749.3213	77.	0.543
21048.174	4749.6776	102.	0.633
21046.899	4749.9653	46.	0.723
21045.220	4750.3444	30.	0.542
21043.863	4750.6506	57.	1.175
21042.487	4750.9613	21.	0.452
21041.455	4751.1944	39.	0.632
21040.305	4751.4540	77.	0.542
21039.322	4751.6759	31.	0.452
21038.266	4751.9144	65.	0.542
21037.088	4752.1805	46.	0.813
21035.572	4752.5230	43.	0.451
21034.381	4752.7921	192.	0.903
21033.077	4753.0869	174.	0.632
21032.124	4753.3022	51.	0.361
21030.952	4753.5670	181.	0.902
21029.822	4753.8224	51.	0.451
21028.730	4754.0694	50.	0.812
21027.695	4754.3033	45.	0.361
21026.782	4754.5099	79.	0.812
21025.165	4754.8754	53.	0.631
21023.840	4755.1752	277.	1.082
21022.390	4755.5032	34.	0.631
21020.959	4755.8270	81.	1.172
21019.027	4756.2641	114.	0.721
21017.915	4756.5156	16.	0.360
21016.835	4756.7602	57.	0.631
21015.980	4756.9537	34.	0.360
21014.375	4757.3169	23.	0.631
21012.813	4757.6706	43.	0.540
21011.946	4757.8669	49.	0.450
21010.732	4758.1419	97.	0.810
21008.643	4758.6149	35.	0.540
21007.565	4758.8591	83.	0.810
21005.853	4759.2471	133.	0.630
21004.812	4759.4828	116.	0.630
21003.208	4759.8464	30.	0.540
21002.359	4760.0387	18.	0.360
21001.237	4760.2932	118.	0.630
20999.848	4760.6078	53.	0.540
20997.818	4761.0681	162.	0.989
20996.541	4761.3577	46.	0.539
20994.941	4761.7206	106.	0.539
20993.407	4762.0686	54.	0.539
20992.048	4762.3768	21.	0.539
20990.279	4762.7783	188.	0.898
20988.211	4763.2475	26.	0.449
20987.498	4763.4092	58.	0.359
20986.832	4763.5605	131.	0.449
20985.988	4763.7520	40.	0.359

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)	(v', v'', Branch J)
20985.036	4763.9678	63.	0.629	
20983.588	4764.2970	18.	0.449	
20981.664	4764.7339	143.	0.898	1,5P11
20980.487	4765.0011	57.	0.449	2,4R26
20979.512	4765.2226	54.	0.449	
20978.673	4765.4132	28.	0.359	
20977.599	4765.6572	88.	0.718	6,6P17
20975.366	4766.1645	29.	0.718	
20974.064	4766.4604	61.	0.717	
20972.825	4766.7421	41.	0.538	
20970.850	4767.1910	106.	0.628	
20970.101	4767.3612	31.	0.359	
20968.497	4767.7258	102.	0.538	
20967.438	4767.9667	135.	0.627	
20966.395	4768.2038	165.	0.448	2,5P15
20965.487	4768.4104	96.	0.448	
20964.748	4768.5785	23.	0.358	
20963.527	4768.8562	28.	0.627	
20962.314	4769.1321	21.	0.358	
20961.481	4769.3217	18.	0.806	
20959.892	4769.6832	25.	1.075	
20957.867	4770.1442	53.	1.343	
20956.656	4770.4198	17.	0.358	
20955.598	4770.6606	13.	0.358	
20954.771	4770.8488	22.	0.537	
20953.871	4771.0538	33.	0.358	
20953.096	4771.2302	51.	0.537	
20951.514	4771.5906	147.	1.074	1,5R13
20949.405	4772.0710	23.	0.447	
20948.438	4772.2913	68.	0.537	2,4P25
20946.611	4772.7075	62.	0.626	
20944.836	4773.1119	129.	0.983	6,6R19
20942.811	4773.5735	105.	0.894	
20941.077	4773.9688	143.	0.715	3,5R20
20939.185	4774.4002	100.	0.804	
20937.683	4774.7426	17.	0.357	
20936.691	4774.9690	47.	0.625	
20934.970	4775.3615	17.	0.625	
20932.899	4775.8338	138.	0.893	
20931.230	4776.2147	35.	0.714	
20930.333	4776.4194	35.	0.536	
20929.172	4776.6843	30.	0.714	
20928.128	4776.9226	34.	0.446	
20927.005	4777.1789	157.	0.803	2,5R17
20925.814	4777.4508	105.	0.714	1,5P12
20923.412	4777.9993	38.	0.535	
20922.385	4778.2339	17.	0.446	
20921.248	4778.4936	31.	0.892	
20919.666	4778.8549	15.	0.446	
20918.736	4779.0673	28.	0.535	
20917.213	4779.4152	55.	0.713	
20915.600	4779.7839	55.	1.247	
20913.441	4780.2774	135.	0.891	
20912.258	4780.5479	87.	0.534	
20911.105	4780.8113	19.	0.534	
20910.005	4781.0628	36.	0.623	
20909.059	4781.2792	16.	0.356	
20908.215	4781.4723	31.	0.534	
20906.909	4781.7709	111.	0.712	
20905.917	4781.9978	27.	0.356	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
20905.056	4782.1949	38.	0.534
20904.104	4782.4125	50.	0.534
20903.125	4782.6365	138.	0.534
20901.742	4782.9530	157.	0.534
20900.695	4783.1926	60.	0.534
20899.604	4783.4423	52.	0.534
20897.306	4783.9684	47.	0.711
20856.244	4784.2114	14.	0.356
20895.439	4784.3958	18.	0.356
20894.251	4784.6679	185.	0.978
20892.687	4785.0260	104.	0.711
20891.711	4785.2496	85.	0.800
20890.228	4785.5893	41.	0.533
20889.273	4785.8081	34.	0.444
20888.320	4786.0264	42.	0.533
20886.557	4786.4304	42.	0.622
20884.659	4786.8654	85.	0.377
20883.316	4787.1733	17.	0.444
20881.422	4787.6074	54.	1.065
20880.015	4787.9301	126.	0.710
20878.096	4788.3702	56.	0.621
20875.825	4788.6910	38.	0.444
20874.500	4789.1951	58.	0.621
20872.707	4789.6064	27.	0.355
20871.905	4789.7904	59.	0.532
20870.061	4790.2138	99.	1.419
20867.601	4790.7785	44.	0.532
20866.896	4790.9403	70.	0.355
20865.918	4791.1648	135.	0.709
20864.452	4791.5015	53.	0.620
20863.506	4791.7188	53.	0.532
20861.237	4792.2261	107.	0.797
20859.411	4792.6595	38.	1.063
20857.617	4793.0717	62.	0.708
20856.450	4793.3398	35.	0.620
20855.198	4793.6276	29.	0.443
20854.124	4793.8745	135.	0.885
20852.511	4794.2453	68.	0.442
20851.302	4794.5234	157.	1.062
20849.429	4794.9540	31.	0.973
20847.914	4795.3025	101.	0.708
20846.952	4795.5238	19.	0.354
20845.675	4795.8175	17.	0.531
20844.436	4796.1026	24.	0.707
20842.467	4796.5557	122.	0.884
20840.834	4796.9315	95.	0.795
20838.979	4797.3585	38.	0.442
20838.282	4797.5191	31.	0.442
20837.098	4797.7915	15.	0.530
20836.128	4798.0150	14.	0.353
20834.870	4798.3046	145.	1.148
20833.405	4798.6422	24.	0.530
20831.641	4799.0484	72.	0.618
20830.600	4799.2834	40.	0.441
20829.827	4799.4663	43.	0.353
20829.079	4799.6387	96.	0.618
20828.030	4799.8804	22.	0.441
20826.798	4800.1644	60.	0.971
20824.435	4800.7092	15.	0.970
20823.322	4800.9658	19.	0.529

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
20822.112	4801.2446	112.	0.706	6,6P19
20820.791	4801.5493	18.	0.441	
20819.434	4801.8622	50.	1.146	
20818.047	4802.1822	160.	0.617	2,5P17
20817.312	4802.3518	73.	0.529	
20815.226	4802.8331	108.	1.057	3,5P20
20813.639	4803.1992	118.	0.705	
20812.412	4803.4824	61.	0.705	
20810.706	4803.8762	34.	0.617	
20809.628	4804.1250	40.	0.440	
20808.985	4804.2737	52.	0.440	
20808.036	4804.4926	40.	0.528	
20806.713	4804.7981	28.	0.616	
20805.434	4805.0936	30.	0.528	1,5P14
20804.535	4805.3011	18.	0.528	
20803.201	4805.6092	29.	0.616	
20801.618	4805.9751	145.	0.616	
20800.671	4806.1938	32.	0.440	
20799.271	4806.5173	50.	0.616	
20797.915	4806.8307	52.	0.616	
20796.865	4807.0735	23.	0.352	
20796.009	4807.2712	41.	0.528	
20794.917	4807.5238	29.	0.615	
20793.457	4807.8613	41.	0.527	
20792.364	4808.1140	39.	0.615	
20791.488	4808.3165	48.	0.439	
20790.580	4808.5266	37.	0.527	
20788.794	4808.9398	63.	0.615	
20787.568	4809.2235	35.	0.615	
20785.948	4809.5982	44.	0.439	6,6R21
20784.990	4809.8199	89.	0.615	
20784.065	4810.0294	29.	0.439	
20782.527	4810.3900	42.	0.439	
20781.684	4810.5851	44.	0.527	
20780.755	4810.8000	18.	0.527	
20779.500	4811.0908	27.	0.878	
20778.206	4811.3902	13.	0.351	
20777.134	4811.6385	36.	0.614	
20775.925	4811.9186	23.	0.614	
20774.820	4812.1744	67.	0.526	
20774.033	4812.3569	99.	0.526	
20773.089	4812.5754	46.	0.439	2,5R19
20771.957	4812.8377	195.	0.577	
20770.035	4813.2832	33.	0.526	
20769.068	4813.5072	73.	0.526	
20767.691	4813.8264	39.	1.052	4,4R32
20766.266	4814.1567	18.	0.526	
20764.264	4814.6210	46.	0.438	
20762.995	4814.9151	160.	1.227	
20761.270	4815.3152	95.	0.788	3,5R22 1,5R16
20758.772	4815.8948	17.	0.350	
20757.780	4816.1248	91.	0.700	
20756.229	4816.4848	75.	0.700	
20754.124	4816.9732	46.	0.613	
20752.944	4817.2473	16.	0.350	
20751.186	4817.6552	54.	0.525	
20750.295	4817.8620	63.	0.612	
20748.708	4818.2307	90.	0.612	
20747.672	4818.4713	27.	0.437	
20746.690	4818.6994	63.	0.525	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
20745.688	4815.5321	25.	0.437	
20744.205	4819.2766	53.	0.787	
20743.106	4819.5319	55.	0.437	2,4R28
20742.454	4819.6834	46.	0.350	
20741.783	4819.8393	28.	0.437	
20740.693	4820.0927	21.	0.524	
20738.830	4820.5256	79.	0.612	6,6P20
20737.352	4820.6691	163.	1.223	2,5P18
20735.781	4821.2344	25.	0.699	
20734.538	4821.5235	50.	0.873	
20732.978	4821.8862	171.	0.873	1,5P15
20731.600	4822.2069	77.	0.698	
20730.057	4822.5656	26.	0.698	
20728.808	4822.8562	92.	0.611	
20727.955	4823.0549	37.	0.436	4,4P31
20726.093	4823.4881	89.	0.611	
20725.204	4823.6949	37.	0.349	
20723.674	4824.0510	116.	0.611	3,5P21
20722.666	4824.2858	28.	0.436	
20721.310	4824.6015	127.	0.698	
20720.392	4824.8152	36.	0.523	
20719.078	4825.1212	13.	0.349	
20718.425	4825.2732	14.	0.436	
20717.069	4825.5892	41.	0.872	
20716.055	4825.8253	25.	0.349	
20714.942	4826.0847	41.	0.784	
20713.263	4826.4759	42.	0.610	
20712.264	4826.7086	28.	0.436	
20710.906	4827.0251	76.	0.610	2,4P27
20709.621	4827.3246	56.	0.784	
20708.096	4827.6802	23.	0.435	
20707.260	4827.8750	29.	0.522	
20706.133	4828.1379	22.	0.522	
20705.354	4828.3195	14.	0.435	
20703.786	4828.6851	50.	0.609	
20702.833	4828.9074	47.	0.348	
20701.870	4829.1320	85.	0.609	
20700.436	4829.4666	54.	0.522	
20699.348	4829.7205	104.	0.783	6,6R22
20697.873	4830.0647	30.	0.348	
20696.483	4830.3889	12.	0.435	
20693.999	4830.9687	13.	0.609	
20692.484	4831.3226	26.	0.695	
20691.404	4831.5746	35.	0.608	
20689.163	4832.0981	114.	0.695	1,5R17
20688.074	4832.3524	140.	0.608	2,5R20
20687.113	4832.5770	20.	0.434	
20685.284	4833.0043	62.	0.869	
20684.076	4833.2865	17.	0.347	
20683.140	4833.5053	38.	0.695	
20681.983	4833.7757	41.	0.608	
20680.679	4834.0804	14.	0.347	
20679.809	4834.2837	47.	0.608	
20678.273	4834.6429	34.	0.781	
20677.334	4834.8624	78.	0.434	
20676.568	4835.0416	31.	0.434	
20675.414	4835.3115	413.	0.347	
20673.908	4835.6638	41.	1.041	
20672.256	4836.0500	43.	0.607	
20671.338	4836.2649	18.	0.347	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
20670.389	4836.4270	18.	0.347	
20669.598	4836.6720	35.	0.433	
20668.375	4836.9583	142.	1.040	3,5R23
20666.948	4837.2922	104.	0.433	
20665.431	4837.6473	29.	0.347	
20664.326	4837.9059	17.	1.040	
20662.359	4838.3666	72.	0.866	
20661.002	4838.6844	31.	0.433	
20659.919	4838.9380	104.	0.693	1,5P16
20658.650	4839.2352	34.	1.039	
20656.667	4839.6998	24.	0.519	
20655.554	4839.9606	13.	0.346	
20654.251	4840.2659	18.	0.433	
20653.112	4840.5328	166.	0.779	2,5P19
20651.905	4840.8157	86.	0.606	6,6P21
20651.093	4841.0060	56.	0.433	
20650.277	4841.1974	56.	0.433	
20649.379	4841.4080	25.	0.433	
20648.256	4841.6712	16.	0.346	
20647.240	4841.9095	59.	0.605	
20646.041	4842.1907	83.	0.605	
20644.849	4842.4703	48.	0.432	
20643.989	4842.6721	29.	0.346	
20643.446	4842.7993	33.	0.432	
20642.104	4843.1142	27.	0.691	
20640.766	4843.4282	82.	0.778	
20638.915	4843.8626	99.	0.778	
20637.141	4844.2789	32.	0.605	
20635.541	4844.6545	22.	0.345	
20634.724	4844.8463	23.	0.345	
20633.937	4845.0312	33.	0.518	
20632.874	4845.2808	181.	0.691	
20631.146	4845.6866	23.	0.432	
20629.865	4845.9876	41.	0.949	
20628.068	4846.4097	54.	0.431	3,5P22
20627.191	4846.6157	45.	0.604	
20626.030	4846.8886	40.	0.431	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH (K)	ASSIGNMENT (v', v'', Branch J)
20615.966	4849.2548	16.	0.675	1,5R18
20614.831	4849.5216	23.	0.507	
20613.785	4849.7678	30.	0.422	
20613.110	4849.9255	35.	0.422	
20612.220	4850.1360	52.	0.506	
20610.273	4850.5942	115.	0.844	
20609.024	4850.8882	57.	0.422	
20608.114	4851.1025	53.	0.506	
20606.913	4851.3851	55.	0.675	
20605.700	4851.6707	130.	0.759	
20604.383	4851.9809	130.	0.675	2,5R21
20602.925	4852.3241	111.	0.506	
20602.244	4852.4844	43.	0.337	
20600.040	4853.0036	450.	0.843	
20598.638	4853.3341	65.	0.590	
20597.780	4853.5362	43.	0.421	
20596.982	4853.7242	28.	0.337	
20595.761	4854.0120	43.	0.590	
20594.350	4854.3446	40.	1.095	
20592.832	4854.7025	157.	0.589	
20591.956	4854.9089	52.	0.337	1,5P17
20590.882	4855.1621	153.	0.589	
20590.044	4855.3598	115.	0.421	
20588.747	4855.6657	29.	0.337	
20587.556	4855.9466	78.	0.926	
20586.252	4856.2541	80.	0.673	
20584.206	4856.7368	31.	0.505	
20582.703	4857.0916	219.	0.673	
20580.831	4857.5334	102.	0.673	
20579.191	4857.9204	39.	0.673	2,6R5
20577.798	4858.2494	27.	0.420	
20576.919	4858.4569	24.	0.672	
20575.669	4858.7520	57.	0.588	
20574.336	4859.0669	145.	0.756	
20572.965	4859.3906	36.	0.420	
20571.857	4859.6523	98.	0.756	
20570.493	4859.9745	479.	1.092	
20569.152	4860.2915	295.	0.588	
20567.867	4860.5951	50.	0.504	2,5P20
20566.189	4860.9917	108.	0.588	
20564.479	4861.3960	365.	1.427	
20562.986	4861.7489	47.	0.420	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
20561.254	4862.1585	111.	0.503	2,6P4
20558.506	4862.8033	40.	0.587	
20557.011	4863.1620	36.	1.258	
20555.490	4863.5218	26.	0.571	
20554.269	4863.8108	36.	0.587	
20552.443	4864.2428	58.	0.587	2,6R6
20551.178	4864.5422	38.	0.503	
20549.970	4864.8282	57.	0.838	
20548.719	4865.1243	14.	0.335	
20547.907	4865.3167	23.	0.419	
20547.235	4865.4759	25.	0.419	
20546.117	4865.7406	132.	0.754	
20545.194	4865.9592	45.	0.419	
20544.532	4866.1159	28.	0.335	
20543.820	4866.2846	15.	0.335	
20542.645	4866.5630	15.	0.419	
20541.110	4866.9255	53.	0.670	
20540.095	4867.1672	32.	0.335	
20539.064	4867.4113	52.	0.837	
20537.388	4867.8087	68.	0.502	2,6P5
20535.564	4868.2411	13.	0.753	
20534.440	4868.5076	13.	0.585	
20533.555	4868.7174	14.	0.335	
20533.017	4868.8448	14.	0.335	
20532.222	4869.0335	15.	0.418	
20530.792	4869.3726	82.	1.171	1,5R19
20529.302	4869.7259	53.	0.418	
20528.577	4869.8981	219.	0.418	3,5P23
20527.803	4870.0817	73.	0.418	
20526.047	4870.4982	94.	1.003	2,6R7
20524.433	4870.8812	41.	0.585	
20522.692	4871.2945	306.	0.568	
20521.318	4871.6207	51.	0.752	
20519.198	4872.1239	135.	0.584	
20517.922	4872.4269	160.	0.584	
20517.193	4872.6002	82.	0.417	
20516.144	4872.8491	35.	0.501	
20515.067	4873.1051	32.	0.751	
20514.004	4873.3577	15.	0.417	
20512.700	4873.6675	46.	1.168	
20511.294	4874.0015	13.	0.417	
20510.409	4874.2117	29.	0.500	
20509.059	4874.5325	51.	1.168	2,6P6
20507.715	4874.8520	153.	0.667	2,5R22
20506.670	4875.1004	38.	0.417	
20505.713	4875.3280	40.	0.500	
20504.516	4875.6126	56.	0.834	
20503.424	4875.8723	31.	0.333	
20502.677	4876.0499	29.	0.417	
20500.999	4876.4492	124.	0.667	1,5P18
20499.572	4876.7284	70.	0.666	
20497.319	4877.3247	49.	0.500	
20496.069	4877.6219	86.	0.583	2,6R8
20494.345	4878.0323	26.	0.333	
20493.236	4878.2964	85.	1.249	
20491.973	4878.5970	30.	0.416	
20490.919	4878.8480	40.	0.832	
20489.751	4879.1260	22.	0.333	
20488.029	4879.5361	77.	0.499	
20487.022	4879.7761	41.	0.582	

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
20485.913	4880.0402	16.	0.333	
20485.171	4880.2169	22.	0.416	
20484.108	4880.4703	56.	0.748	
20482.360	4880.8867	59.	1.164	
20480.924	4881.2289	30.	0.499	
20479.750	4881.5088	50.	0.582	
20478.120	4881.8973	26.	0.416	
20477.340	4882.0833	22.	0.332	
20476.427	4882.3009	49.	0.499	2,6P7
20475.552	4882.5096	97.	0.582	
20474.547	4882.7493	37.	0.415	
20473.856	4882.9139	48.	0.498	
20472.847	4883.1548	89.	0.498	
20471.756	4883.4150	207.	0.664	2,5P21
20470.738	4883.6578	31.	0.332	
20470.165	4883.7946	28.	0.332	
20469.353	4883.9882	27.	0.581	
20467.147	4884.5146	78.	0.498	
20466.280	4884.7217	160.	0.415	
20465.532	4884.9000	45.	0.332	
20464.653	4885.1100	34.	0.664	
20462.745	4885.5655	74.	0.415	
20461.568	4885.8466	118.	0.498	2,6R9
20460.254	4886.1604	46.	0.415	
20458.185	4886.6545	88.	1.161	
20456.902	4886.9609	91.	0.580	
20455.778	4887.2295	57.	0.663	
20454.554	4887.5219	55.	0.663	
20453.432	4887.7900	84.	0.497	
20452.773	4887.9476	29.	0.331	5,7R5
20452.048	4888.1208	25.	0.414	
20450.540	4888.4811	14.	0.497	
20449.139	4888.8162	27.	0.311	
20447.787	4889.1394	75.	0.580	
20445.690	4889.6409	145.	1.076	1,5R20
20444.461	4889.9347	60.	0.497	
20442.939	4890.2989	35.	0.662	
20441.109	4890.7367	232.	0.662	
20439.697	4891.0746	63.	0.579	2,6P8
20438.003	4891.4800	957.	0.744	
20436.858	4891.7541	40.	0.496	
20435.889	4891.9859	22.	0.413	
20435.145	4892.1640	30.	0.579	
20434.113	4892.4110	35.	0.413	
20433.398	4892.5822	34.	0.413	
20432.135	4892.8847	32.	0.413	5,7R6
20430.992	4893.1584	48.	0.744	
20429.051	4893.6234	15.	0.496	
20428.027	4893.8688	36.	0.496	
20427.087	4894.0940	16.	0.413	
20425.210	4894.5437	150.	0.743	3,5P24
20423.577	4894.9351	42.	0.413	
20422.684	4895.1492	107.	0.661	2,6R10
20421.311	4895.4722	23.	0.330	
20420.706	4895.6233	52.	0.495	
20419.045	4896.0215	16.	0.330	
20418.286	4896.2035	17.	0.660	
20416.701	4896.5836	16.	0.495	
20415.189	4896.9462	116.	1.237	1,5P19
20413.682	4897.3078	23.	0.577	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)	(v', v'', Branch J)
20411.339	4897.8700	118.	0.742	2,5R23
20410.111	4898.1646	17.	0.560	
20409.013	4898.4252	17.	0.412	
20408.256	4898.6098	21.	0.330	
20407.494	4898.7928	32.	0.495	5,7R7
20406.200	4899.1033	33.	0.494	
20404.661	4899.4730	91.	0.659	
20403.211	4899.8211	14.	0.494	
20402.215	4900.0602	13.	0.494	
20401.094	4900.3297	24.	0.577	
20400.105	4900.5673	33.	0.494	
20398.864	4900.8653	53.	0.494	2,6P9
20398.279	4901.0058	33.	0.329	
20397.360	4901.2268	29.	0.494	
20396.077	4901.5349	28.	0.576	
20395.224	4901.7399	28.	0.576	
20394.196	4901.9871	13.	0.411	
20392.623	4902.3651	61.	0.576	
20391.055	4902.7422	62.	0.576	
20390.178	4902.9529	29.	0.329	
20388.742	4903.2983	43.	0.411	5,7P6
20387.877	4903.5065	42.	0.329	
20387.165	4903.6776	31.	0.411	
20386.103	4903.9331	15.	0.329	
20385.132	4904.1666	49.	0.658	
20384.045	4904.4282	14.	0.411	
20383.126	4904.6493	15.	0.411	
20381.765	4904.9768	54.	0.575	
20379.947	4905.4143	122.	0.739	2,6R11
20378.831	4905.6830	47.	0.575	5,7R8
20377.963	4905.8919	19.	0.329	
20376.892	4906.1499	26.	0.657	
20375.780	4906.4175	110.	0.493	1,6R3
20374.959	4906.6153	135.	0.575	2,5P22
20373.978	4906.8516	27.	0.493	
20372.921	4907.1062	21.	0.328	
20372.269	4907.2631	31.	0.410	
20371.498	4907.4490	16.	0.328	
20370.443	4907.7031	24.	0.492	
20369.493	4907.9320	75.	0.492	
20368.448	4908.1837	33.	0.656	1,6P2
20366.950	4908.5447	17.	0.328	
20366.173	4908.7321	23.	0.656	
20364.237	4909.1987	65.	0.656	
20362.239	4909.6805	68.	0.656	1,6R4
20360.537	4910.0909	15.	0.410	
20359.376	4910.3710	187.	0.820	
20357.054	4910.9309	31.	0.656	5,7P7
20355.789	4911.2362	51.	0.574	1,5R21
20355.035	4911.4181	42.	0.410	
20353.903	4911.6912	62.	0.573	2,6P10
20352.387	4912.0572	49.	0.491	1,6P3
20351.485	4912.2747	46.	0.491	
20350.097	4912.6099	48.	0.901	
20348.458	4913.0055	44.	0.737	
20347.308	4913.2832	24.	0.409	
20346.320	4913.5218	39.	0.573	5,7R9
20345.258	4913.7784	43.	0.573	
20344.328	4914.0030	75.	0.573	1,6R5
20343.076	4914.3053	13.	0.327	

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
20342.372	4914.4756	16.	0.409
20341.673	4914.6445	23.	0.327
20341.112	4914.7798	27.	0.409
20339.965	4915.0571	42.	0.491
20339.214	4915.2385	23.	0.327
20338.048	4915.5204	57.	0.818
20336.919	4915.7933	17.	0.491
20335.013	4916.2540	28.	0.490
20332.825	4916.7830	97.	0.572
20332.098	4916.9588	51.	0.409
20330.921	4917.2434	23.	0.490
20329.973	4917.4729	25.	0.572
20329.351	4917.6233	17.	0.327
20328.155	4917.9126	13.	0.572
20326.629	4918.2817	15.	0.572
20325.318	4918.5989	71.	0.980
20323.756	4918.9771	284.	0.735
20322.406	4919.3038	132.	0.653
20321.613	4919.4959	68.	0.408
20320.633	4919.7330	51.	0.571
20319.595	4919.9845	44.	0.490
20317.694	4920.4448	1275.	1.305
20315.632	4920.9441	17.	0.652
20314.377	4921.2481	21.	0.734
20312.659	4921.6645	22.	0.408
20311.822	4921.8673	16.	0.326
20310.821	4922.1098	183.	0.734
20309.728	4922.3747	36.	0.489
20307.824	4922.8362	66.	0.652
20305.931	4923.2950	18.	0.570
20304.853	4923.5565	57.	0.570
20302.359	4924.1614	18.	0.489
20301.543	4924.3593	14.	0.407
20300.613	4924.5850	18.	0.488
20299.233	4924.9197	13.	0.407
20297.585	4925.3194	43.	0.570
20296.126	4925.6735	82.	0.895
20294.006	4926.1881	15.	0.407
20292.920	4926.4516	18.	0.813
20291.691	4926.7502	13.	0.407
20290.644	4927.0043	21.	0.488
20289.948	4927.1734	19.	0.569
20288.833	4927.4441	13.	0.325
20287.837	4927.6861	61.	0.650
20286.814	4927.9345	18.	0.488
20284.553	4928.4838	79.	1.056
20283.210	4928.8103	35.	0.487
20282.352	4929.0188	56.	0.487
20281.333	4929.2663	91.	0.569
20280.261	4929.5270	28.	0.487
20279.269	4929.7680	57.	0.487
20278.187	4930.0311	36.	0.406
20277.188	4930.2739	52.	0.731
20275.720	4930.6311	16.	0.649
20274.392	4930.9540	110.	0.812
20273.038	4931.2832	27.	0.568
20271.870	4931.5675	27.	0.487
20271.234	4931.7221	30.	0.487
20269.388	4932.1712	44.	0.565
20268.328	4932.4292	60.	0.649

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(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
20266.368	4932.9062	17.	0.405
20265.427	4933.1353	77.	0.549
20264.138	4933.4491	22.	0.486
20263.397	4933.6294	17.	0.324
20262.516	4933.8197	13.	0.405
20261.384	4934.1198	33.	0.486
20260.457	4934.3455	25.	0.486
20259.464	4934.5873	21.	0.486
20257.876	4934.9742	16.	0.486
20256.862	4935.2213	17.	0.405
20255.690	4935.5068	25.	0.810
20254.350	4935.8333	14.	0.567
20252.972	4936.1690	14.	0.486
20251.794	4936.4562	55.	0.567
20251.107	4936.6236	29.	0.405
20248.761	4937.1956	74.	0.486
20248.007	4937.3794	25.	0.324
20246.584	4937.7265	93.	0.547
20245.594	4937.9681	18.	0.485
20244.224	4938.3021	17.	0.890
20242.237	4938.7870	59.	0.547
20241.281	4939.0201	21.	0.323
20239.936	4939.3484	32.	0.728
20238.133	4939.7885	14.	0.323
20237.289	4939.9945	13.	0.485
20235.690	4940.3849	14.	0.546
20234.589	4940.6537	36.	0.565
20232.917	4941.0618	12.	0.546
20231.881	4941.3150	15.	0.323
20230.663	4941.6125	94.	0.888
20229.189	4941.9725	14.	0.404
20228.224	4942.2082	15.	0.323
20227.126	4942.4765	32.	0.484
20225.919	4942.7715	88.	0.546
20224.936	4943.0118	36.	0.484
20224.016	4943.2367	14.	0.323
20222.996	4943.4859	31.	0.565
20222.129	4943.6978	23.	0.403
20221.138	4943.9402	18.	0.403
20220.546	4944.0850	25.	0.484
20219.652	4944.3034	25.	0.484
20218.090	4944.6856	26.	0.403
20217.068	4944.9354	35.	0.545
20216.061	4945.1817	15.	0.564
20215.232	4945.3845	16.	0.403
20214.331	4945.6051	33.	0.484
20213.126	4945.9000	44.	0.545
20212.180	4946.1314	17.	0.403
20211.260	4946.3565	15.	0.403
20209.619	4946.7582	69.	0.805
20208.150	4947.1176	13.	0.322
20207.247	4947.3389	69.	0.564
20206.255	4947.5817	53.	0.564
20204.857	4947.9241	22.	0.403
20204.090	4948.1118	28.	0.402
20203.265	4948.3139	17.	0.483
20201.728	4948.6904	33.	0.483
20200.840	4948.9079	24.	0.483
20199.834	4949.1545	14.	0.563
20198.663	4949.4414	16.	0.544

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
20196.855	4949.8770	12.	0.483
20195.367	4950.2492	32.	0.402
20194.436	4950.4775	56.	0.724
20193.252	4950.7602	28.	0.563
20192.210	4951.0231	15.	0.322
20191.392	4951.2236	65.	0.482
20190.564	4951.4266	49.	0.402
20189.764	4951.6229	25.	0.402
20188.802	4951.8589	30.	0.482
20187.787	4952.1078	15.	0.321
20186.970	4952.3084	25.	0.643
20185.702	4952.6193	22.	0.402
20185.071	4952.7742	36.	0.402
20184.421	4952.9337	40.	0.482
20182.903	4953.3062	26.	0.883
20181.742	4953.5912	17.	0.321
20180.542	4953.8857	16.	0.642
20178.737	4954.3288	42.	0.722
20176.664	4954.8379	46.	0.642
20174.763	4955.3049	12.	0.321
20174.022	4955.4869	15.	0.481
20173.277	4955.6698	15.	0.401
20172.503	4955.8598	16.	0.401
20171.260	4956.1654	28.	0.561
20169.794	4956.5255	64.	0.561
20168.616	4956.8151	69.	0.561
20167.545	4957.0783	61.	0.561
20166.715	4957.2823	160.	0.401
20165.405	4957.6044	2650.	0.801
20164.387	4957.8547	41.	0.320
20163.845	4957.9878	39.	0.481
20162.903	4958.2197	27.	0.401
20161.883	4958.4704	16.	0.481
20160.704	4958.7603	21.	0.481
20159.916	4958.9542	17.	0.400
20158.576	4959.2840	26.	0.801
20156.964	4959.6805	15.	0.480
20154.839	4960.2034	15.	0.480
20153.538	4960.5236	39.	0.960
20151.667	4960.9843	14.	0.560
20150.437	4961.2869	18.	0.480
20149.038	4961.6315	18.	0.560
20147.889	4961.9145	116.	0.720
20146.691	4962.2095	42.	0.720
20144.064	4962.8566	32.	0.560
20142.746	4963.1814	54.	0.559
20141.600	4963.4637	14.	0.559
20139.738	4963.9226	50.	0.639
20138.557	4964.2138	15.	0.320
20137.677	4964.4306	50.	0.559
20135.785	4964.8972	21.	0.319
20135.105	4965.0650	30.	0.399
20134.274	4965.2698	58.	0.479
20133.335	4965.5013	64.	0.479
20132.408	4965.7301	40.	0.479
20130.995	4966.0785	29.	0.638
20129.738	4966.3885	14.	0.559
20128.305	4966.7422	17.	0.718
20126.710	4967.1358	23.	0.718
20125.530	4967.4270	29.	0.638

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
20124.624	4967.6506	60.	0.558
20123.338	4967.9681	105.	0.718
20121.746	4968.3613	60.	0.558
20120.662	4968.6290	52.	0.478
20119.349	4968.9531	31.	0.398
20118.586	4969.1415	36.	0.319
20117.704	4969.3594	45.	0.797
20116.174	4969.7373	65.	0.717
20113.715	4970.3451	36.	0.319
20112.871	4970.5537	65.	0.637
20111.180	4970.9715	105.	0.478
20107.840	4971.7973	8650.	4.775
20104.114	4972.7186	46.	0.477
20102.327	4973.1608	89.	0.557
20101.330	4973.4074	45.	0.398
20100.013	4973.7333	115.	0.716
20099.068	4973.9672	66.	0.318
20097.693	4974.3075	73.	0.715
20096.495	4974.6040	32.	0.715
20095.181	4974.9294	42.	0.477
20094.282	4975.1519	25.	0.318
20093.498	4975.3460	30.	0.318
20092.586	4975.5719	88.	0.636
20090.849	4976.0019	21.	0.556
20089.594	4976.3129	41.	0.794
20088.345	4976.6224	38.	0.635
20085.785	4977.2566	29.	0.556
20084.423	4977.5942	15.	0.952
20083.000	4977.9468	20.	0.556
20081.071	4978.4250	30.	0.555
20079.699	4978.7651	25.	0.793
20078.527	4979.0558	43.	0.555
20077.442	4979.3248	17.	0.476
20076.348	4979.5962	12.	0.317
20075.489	4979.8092	13.	0.634
20073.865	4980.2121	55.	0.634
20072.313	4980.5971	23.	0.476
20071.392	4980.8259	14.	0.396
20070.283	4981.1009	21.	0.396
20069.381	4981.3248	19.	0.317
20068.685	4981.4975	39.	0.396
20068.050	4981.6552	55.	0.396
20067.269	4981.8491	17.	0.396
20065.686	4982.2421	23.	0.554
20064.696	4982.4879	18.	0.475
20062.819	4982.9542	17.	0.950
20061.258	4983.3418	43.	0.554
20060.197	4983.6055	18.	0.475
20059.300	4983.8283	15.	0.317
20058.409	4984.0497	32.	0.554
20056.023	4984.6427	28.	0.554
20054.579	4985.0016	53.	0.949
20053.550	4985.2574	17.	0.316
20052.283	4985.5723	25.	0.474
20050.597	4985.9916	31.	0.711
20049.377	4986.2949	22.	0.553
20047.958	4986.6480	67.	0.553
20046.925	4986.9048	14.	0.395
20045.136	4987.3500	13.	0.632
20043.503	4987.7563	36.	0.474

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ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
20041.995	4988.1317	37.	0.474
20040.972	4988.3861	33.	0.790
20039.603	4988.7270	13.	0.632
20038.669	4988.9594	12.	0.395
20037.265	4989.3092	29.	0.474
20036.384	4989.5285	15.	0.395
20035.667	4989.7069	13.	0.316
20034.524	4989.9918	81.	0.947
20032.460	4990.5059	13.	0.710
20030.093	4991.0955	42.	0.789
20028.256	4991.5535	13.	0.631
20027.018	4991.8621	17.	0.473
20025.871	4992.1479	12.	0.709
20024.502	4992.4891	12.	0.473
20021.851	4993.1502	17.	1.024
20020.356	4993.5232	53.	0.551
20019.606	4993.7101	23.	0.315
20018.809	4993.9090	25.	0.473
20017.957	4994.1215	15.	0.315
20017.019	4994.3556	29.	0.472
20016.092	4994.5869	68.	0.551
20015.196	4994.8105	39.	0.472
20014.245	4995.0477	12.	0.315
20013.240	4995.2985	13.	0.944
20011.125	4995.8266	12.	0.393
20010.520	4995.9776	12.	0.393
20009.695	4996.1836	15.	0.315
20008.792	4996.4092	36.	0.551
20007.861	4996.6415	21.	0.393
20006.395	4997.0078	26.	0.472
20005.399	4997.2564	23.	0.550
20003.805	4997.6547	16.	0.629
20001.495	4998.2320	43.	0.550
19999.788	4998.6586	22.	0.629
19998.747	4998.9187	53.	0.550
19997.796	4999.1566	28.	0.393
19996.553	4999.4673	18.	0.550
19995.433	4999.7474	24.	0.864
19994.060	5000.0906	16.	0.471
19993.128	5000.3236	24.	0.471
19991.481	5000.7356	58.	0.785
19989.761	5001.1658	13.	0.314
19988.773	5001.4132	15.	0.706
19987.052	5001.8438	32.	0.392
19985.398	5002.2577	30.	0.549
19983.816	5002.6537	14.	0.471
19982.672	5002.9401	12.	0.392
19979.721	5003.6791	12.	0.392
19978.733	5003.9265	18.	0.392
19978.067	5004.0934	22.	0.470
19976.322	5004.5305	12.	0.392
19975.240	5004.8016	32.	0.392
19974.472	5004.9940	58.	0.470
19972.431	5005.5056	46.	0.548
19971.656	5005.6998	26.	0.392
19970.072	5006.0968	76.	0.548
19968.459	5006.5011	25.	0.391
19967.695	5006.6926	30.	0.470
19966.258	5007.0530	13.	0.313
19965.420	5007.2632	17.	0.470

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ASSIGNMENT
(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
19964.115	5007.5905	23.	0.525
19962.357	5008.0314	74.	1.017
19960.248	5008.5608	14.	0.860
19958.232	5009.0666	23.	0.525
19956.996	5009.3768	32.	0.547
19954.531	5009.9956	12.	0.391
19953.544	5010.2434	21.	0.525
19952.268	5010.5640	13.	0.547
19948.869	5011.4176	35.	0.547
19947.411	5011.7839	13.	0.390
19946.337	5012.0537	33.	0.390
19945.024	5012.3839	32.	1.015
19942.742	5012.9573	15.	0.524
19939.948	5013.6598	13.	0.390
19939.033	5013.8899	14.	0.546
19936.811	5014.4487	29.	0.546
19935.840	5014.6929	13.	0.468
19934.907	5014.9275	18.	0.390
19933.968	5015.1637	25.	0.468
19932.701	5015.4827	36.	0.780
19930.861	5015.9456	48.	0.546
19929.987	5016.1656	18.	0.390
19929.000	5016.4140	13.	0.468
19928.091	5016.6429	13.	0.312
19927.397	5016.8175	16.	0.467
19925.471	5017.3025	113.	0.857
19924.277	5017.6033	12.	0.312
19923.337	5017.8400	18.	0.467
19922.169	5018.1342	12.	0.311
19921.548	5018.2906	14.	0.389
19919.854	5018.7173	12.	1.245
19918.430	5019.0762	14.	0.623
19917.631	5019.2650	12.	0.311
19916.124	5019.6573	33.	0.467
19914.427	5020.0851	16.	0.467
19913.633	5020.2851	13.	0.311
19912.415	5020.5924	26.	0.544
19910.977	5020.9548	13.	0.389
19909.661	5021.2868	13.	0.389
19908.658	5021.5397	32.	0.544
19907.620	5021.8016	14.	0.544
19906.579	5022.0642	17.	0.466
19905.879	5022.2407	13.	0.311
19904.704	5022.5373	13.	0.388
19902.698	5023.0434	25.	0.699
19900.648	5023.5610	51.	0.544
19899.583	5023.8298	15.	0.388
19898.401	5024.1282	13.	0.543
19897.149	5024.4444	14.	0.311
19896.543	5024.5974	16.	0.388
19895.910	5024.7574	15.	0.388
19894.225	5025.1828	30.	0.543
19893.225	5025.4354	14.	0.388
19891.881	5025.7749	22.	0.465
19890.408	5026.1472	14.	0.465
19888.109	5026.7281	35.	0.543
19887.219	5026.9532	15.	0.388
19885.823	5027.3060	48.	0.620
19884.921	5027.5341	15.	0.310
19884.046	5027.7553	16.	0.543

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(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
19881.919	5028.2933	16.	0.465
19880.267	5028.7111	21.	0.465
19879.311	5028.9529	29.	0.542
19877.972	5029.2917	41.	0.465
19876.334	5029.7062	15.	0.465
19875.120	5030.0134	32.	0.774
19871.423	5030.9492	12.	0.387
19870.516	5031.1788	32.	0.387
19869.890	5031.3374	37.	0.387
19868.900	5031.5879	23.	0.696
19867.797	5031.8675	12.	0.619
19865.767	5032.3817	39.	0.541
19864.105	5032.8027	21.	0.541
19863.078	5033.0627	16.	0.464
19862.127	5033.3039	16.	0.464
19860.521	5033.7108	23.	0.541
19859.184	5034.0497	15.	0.386
19858.544	5034.2119	13.	0.309
19856.382	5034.7602	24.	0.464
19854.006	5035.3626	14.	0.463
19852.718	5035.6894	36.	0.541
19851.620	5035.9678	12.	0.309
19850.859	5036.1609	13.	0.618
19848.226	5036.8290	45.	0.617
19846.702	5037.2158	14.	0.463
19845.943	5037.4085	14.	0.386
19844.615	5037.7455	232.	0.771
19843.350	5038.0667	17.	0.386
19842.537	5038.2732	14.	0.308
19841.605	5038.5097	14.	0.308
19840.667	5038.7480	16.	0.848
19838.767	5039.2306	13.	0.540
19836.663	5039.7651	26.	0.539
19835.628	5040.0281	12.	0.462
19834.607	5040.2876	37.	0.539
19833.642	5040.5327	23.	0.462
19832.739	5040.7622	25.	0.462
19831.427	5041.0958	21.	0.539
19830.507	5041.3295	15.	0.462
19829.623	5041.5544	17.	0.385
19828.892	5041.7403	36.	0.462
19828.184	5041.9203	12.	0.308
19827.011	5042.2186	12.	0.385
19825.785	5042.5304	13.	0.539
19824.830	5042.7732	12.	0.462
19823.262	5043.1722	15.	0.693
19821.677	5043.5754	13.	0.462
19820.511	5043.8721	29.	0.462
19818.903	5044.2814	14.	0.461
19817.414	5044.6605	15.	0.461
19816.126	5044.9883	13.	0.846
19814.848	5045.3136	14.	0.461
19814.114	5045.5004	12.	0.307
19812.588	5045.8892	18.	0.692
19810.482	5046.4255	15.	0.461
19809.287	5046.7301	14.	0.461
19807.649	5047.1473	16.	0.384
19806.808	5047.3617	30.	0.538
19805.479	5047.7003	34.	0.537
19804.326	5047.9943	12.	0.461

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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
19803.382	5048.2348	15.	0.461
19802.424	5048.4792	13.	0.461
19801.539	5048.7048	13.	0.460
19800.215	5049.0424	21.	0.537
19796.779	5049.9188	40.	1.151
19795.066	5050.3556	14.	0.460
19793.486	5050.7589	12.	0.460
19791.808	5051.1869	13.	0.307
19791.113	5051.3644	17.	0.460
19790.121	5051.6177	21.	0.460
19788.961	5051.9139	12.	0.460
19786.968	5052.4226	14.	0.460
19785.385	5052.8268	21.	0.460
19784.066	5053.1638	14.	0.919
19782.916	5053.4576	12.	0.383
19781.704	5053.7670	14.	0.536
19780.659	5054.0341	14.	0.612
19777.445	5054.8556	13.	0.459
19776.186	5055.1772	16.	0.459
19773.218	5055.9360	13.	0.459
19770.416	5056.6525	13.	0.841
19768.829	5057.0586	25.	0.535
19767.012	5057.5233	37.	0.535
19765.848	5057.8214	12.	0.611
19764.351	5058.2043	31.	0.535
19763.055	5058.5360	17.	0.382
19762.280	5058.7343	23.	0.382
19761.547	5058.9221	14.	0.306
19760.732	5059.1307	17.	0.458
19759.187	5059.5264	14.	0.458
19757.528	5059.9512	13.	0.382
19756.537	5060.2049	12.	0.611
19754.265	5060.7869	14.	0.453
19752.784	5061.1664	21.	0.534
19751.625	5061.4634	14.	0.763
19750.406	5061.7758	12.	0.453
19748.866	5062.1705	21.	0.534
19748.081	5062.3717	14.	0.305
19747.204	5062.5966	17.	0.534
19744.926	5063.1807	12.	0.381
19743.275	5063.6042	12.	0.762
19741.218	5064.1316	15.	0.457
19740.036	5064.4349	21.	0.762
19738.731	5064.7699	12.	0.457
19737.677	5065.0402	13.	0.609
19736.649	5065.3042	14.	0.533
19735.359	5065.6351	17.	0.381
19734.621	5065.8246	13.	0.381
19733.382	5066.1426	14.	0.457
19732.038	5066.4877	21.	0.533
19730.485	5066.8867	12.	0.585
19727.462	5067.6629	25.	0.532
19724.398	5068.4502	15.	0.380
19722.951	5068.8220	23.	0.684
19721.054	5069.3097	27.	0.532
19719.976	5069.5867	12.	0.456
19719.160	5069.7964	15.	0.304
19717.957	5070.1058	14.	0.456
19714.274	5071.0531	13.	0.835
19712.829	5071.4247	22.	0.607

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(v', v'', Branch J)

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
19710.160	5072.1114	17.	0.455
19709.267	5072.3415	16.	0.455
19705.626	5073.2785	13.	0.379
19702.077	5074.1925	28.	0.531
19700.240	5074.6656	17.	0.758
19698.205	5075.1899	13.	0.455
19695.856	5075.7925	13.	0.455
19690.068	5077.2872	25.	0.454
19685.584	5078.4438	15.	0.505
19684.334	5078.7662	17.	0.454
19683.143	5079.0735	13.	0.454
19681.830	5079.4124	24.	0.530
19680.603	5079.7291	12.	0.454
19678.107	5080.3734	60.	0.529
19676.132	5080.8833	17.	0.832
19674.137	5081.3985	13.	0.453
19669.575	5082.5772	14.	0.604
19667.547	5083.1013	13.	0.453
19666.489	5083.3748	14.	0.453
19663.877	5084.0500	14.	0.453
19658.533	5085.4320	14.	0.377
19657.489	5085.7022	15.	0.905
19656.518	5085.9534	12.	0.302
19654.704	5086.4227	14.	0.377
19653.600	5086.7086	16.	0.452
19651.294	5087.3053	16.	0.528
19650.109	5087.6121	13.	0.603
19649.099	5087.8737	12.	0.377
19647.553	5088.2740	12.	0.753
19644.968	5088.9435	17.	0.452
19643.614	5089.2944	16.	0.452
19639.945	5090.2450	22.	0.452
19638.010	5090.7467	12.	0.301
19637.096	5090.9836	13.	0.301
19636.390	5091.1666	12.	0.376
19634.682	5091.6096	17.	0.502
19632.581	5092.1544	22.	0.526
19631.388	5092.4640	13.	0.376
19630.764	5092.6257	12.	0.301
19629.724	5092.8956	12.	0.301
19629.106	5093.0561	12.	0.526
19625.233	5094.0611	18.	0.601
19621.637	5094.9946	12.	0.676
19620.482	5095.2945	13.	0.300
19619.800	5095.4717	13.	0.450
19617.901	5095.9650	13.	0.525
19616.511	5096.3261	13.	0.750
19613.180	5097.1915	18.	0.450
19611.649	5097.5896	21.	0.450
19609.734	5098.0872	15.	0.450
19608.664	5098.3656	14.	0.450
19607.399	5098.6946	13.	0.750
19606.007	5099.0566	16.	0.525
19604.278	5099.5061	15.	0.450
19603.375	5099.7411	16.	0.450
19602.252	5100.0332	13.	0.450
19601.147	5100.3208	12.	0.399
19599.660	5100.7077	12.	0.599
19598.692	5100.9596	17.	0.449
19597.516	5101.2659	12.	0.449

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ASSIGNMENT
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WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
19595.153	5101.6839	13.	0.524
19594.311	5102.1001	13.	0.449
19592.746	5102.5078	18.	0.524
19590.355	5103.1304	13.	0.374
19589.285	5103.4091	17.	0.449
19588.184	5103.6962	15.	0.748
19586.262	5104.1970	12.	0.523
19584.331	5104.7001	12.	0.374
19583.331	5104.9608	13.	0.598
19581.914	5105.3302	13.	0.523
19579.832	5105.8730	12.	0.523
19578.701	5106.1682	13.	0.448
19577.663	5106.4389	13.	0.448
19574.533	5107.2553	12.	0.299
19573.988	5107.3976	12.	0.373
19573.032	5107.6469	15.	0.448
19571.458	5108.0579	15.	0.448
19565.200	5109.6916	15.	0.522
19562.481	5110.4020	26.	0.447
19561.273	5110.7176	14.	0.373
19558.037	5111.5630	15.	0.522
19556.339	5112.0068	12.	0.447
19555.495	5112.2276	13.	0.596
19551.503	5113.2714	13.	1.117
19549.983	5113.6690	18.	0.372
19549.325	5113.8410	13.	0.298
19547.814	5114.2364	12.	0.372
19546.807	5114.4997	13.	0.372
19546.031	5114.7028	12.	0.446
19540.102	5116.2547	17.	0.446
19539.150	5116.5041	80.	0.520
19537.540	5116.9256	14.	0.892
19530.321	5118.8172	12.	0.371
19529.058	5119.1481	17.	0.520
19527.804	5119.4769	12.	0.445
19526.448	5119.8323	14.	0.668
19524.813	5120.2611	12.	0.371
19524.216	5120.4178	12.	0.371
19522.397	5120.8947	12.	0.371
19520.666	5121.3490	14.	0.593
19517.041	5122.3001	15.	0.741
19515.705	5122.6508	14.	0.519
19514.151	5123.0587	13.	0.445
19511.839	5123.6658	12.	0.741
19510.383	5124.0482	12.	0.593
19509.225	5124.3524	13.	0.444
19507.671	5124.7607	13.	0.444
19506.585	5125.0458	12.	0.740
19500.946	5126.5280	14.	0.592
19499.875	5126.8094	16.	0.518
19497.782	5127.3598	13.	0.444
19496.304	5127.7485	13.	0.666
19495.267	5128.0213	12.	0.370
19494.515	5128.2191	13.	0.370
19493.747	5128.4210	13.	0.370
19492.093	5128.8563	14.	0.443
19490.631	5129.2409	13.	0.591
19489.555	5129.5242	12.	0.369
19487.940	5129.9494	12.	0.887
19487.115	5130.1665	12.	0.295

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ASSIGNMENT
(v', v'', Branch J)
5,7R23

WAVENUMBER	WAVELENGTH	INTENSITY	WIDTH(K)
19485.942	5130.4753	16.	0.443
19485.184	5130.6748	13.	0.369
19484.717	5130.9823	13.	0.960
19482.063	5131.4969	14.	0.443
19480.467	5131.9172	12.	0.295
19478.751	5132.3693	12.	0.564
19476.969	5132.8388	14.	1.328
19473.884	5133.6522	15.	0.664
19471.665	5134.2371	13.	0.442
19470.893	5134.4407	12.	0.295
19469.844	5134.7175	13.	0.369
19468.985	5134.9439	16.	0.516
19466.641	5135.5621	14.	0.516
19465.555	5135.8487	13.	0.810
19463.664	5136.3476	12.	0.663
19462.107	5136.7586	15.	0.589
19460.676	5137.1362	12.	0.368
19459.661	5137.4043	13.	0.589
19458.330	5137.7557	13.	0.368
19457.290	5138.0303	14.	0.442
19456.221	5138.3126	12.	0.294
19455.302	5138.5554	15.	0.662
19453.461	5139.0417	13.	0.441
19452.691	5139.2450	14.	0.368
19451.853	5139.4666	21.	0.441
19449.912	5139.9793	13.	1.029
19448.504	5140.3515	12.	0.441
19446.858	5140.7867	12.	0.441
19445.099	5141.2516	12.	0.514
19443.650	5141.6349	16.	0.588
19442.462	5141.9490	15.	0.514
19440.844	5142.3770	13.	0.367
19440.221	5142.5418	12.	0.294
19438.958	5142.8759	13.	0.367
19438.323	5143.0437	13.	0.367
19437.292	5143.3165	13.	0.354
19435.958	5143.6698	13.	0.294
19434.652	5144.0152	13.	0.440
19433.712	5144.2642	15.	0.514
19433.099	5144.4265	13.	0.294
19432.052	5144.7035	12.	0.367
19431.138	5144.9455	28.	0.440
19429.249	5145.4458	14.	0.660
19428.376	5145.6770	13.	0.513
19426.734	5146.1119	15.	0.440
19426.209	5146.2511	13.	0.367
19425.737	5146.3761	12.	0.293
19425.172	5146.5257	13.	0.367
19423.958	5146.8475	13.	1.099
19422.914	5147.1241	12.	0.440
19422.123	5147.3338	14.	0.440
19421.549	5147.4858	13.	0.366
19420.728	5147.7035	12.	0.586
19419.648	5147.9899	14.	0.733
19418.654	5148.2534	12.	0.586
19417.542	5148.5480	13.	0.586
19416.718	5148.7665	12.	0.293
19415.485	5149.0937	17.	0.513
19414.745	5149.2898	12.	0.293
19414.181	5149.4394	12.	0.293

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