

The $\delta(v,0)$ bands [$C^2\Pi_r - X^2\Pi_r$], cm^{-1} . The uncertainty in the absolute wavenumbers is ± 0.03 .

J	$\delta(0,0)$ band [C(0)-X(0)]										
	R ₁₁		P ₁₁				R ₁₂		P ₁₂		
	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>	
0.5	52380.24										
1.5	52385.91		52367.70								
2.5	52388.94B		52366.88				52265.79		52246.85B		
3.5	52388.94B		52365.96		52365.76		52245.40				
4.5	52390.55	52390.85	52362.13				52269.66	52269.98	52241.35		
5.5	52394.95	52395.50	52355.55				52273.50	52274.11B	52234.08B		
6.5	52400.57	52401.35	52350.44	52350.72	52278.49	52279.34	52228.34	52228.73			
7.5	52406.93B	52407.99	52348.17B	52348.69	52284.11B	52285.29	52225.37	52225.99			
8.5	52414.04	52415.34	52347.12B	52347.82B	52290.43	52291.88B	52223.43B	52224.31B			
9.5	52421.79B	52423.35	52346.80	52347.82B	52297.29	52299.00	52222.27B	52223.43B			
10.5	52430.07B	52432.04	52347.12B	52348.51B	52304.66B	52306.69	52221.70B	52223.16B			
11.5	52439.05B	52441.36	52348.17B	52349.81B	52312.51	52314.98	52221.70B	52223.43B			
12.5	52448.60	52451.33	52349.81B	52351.79B	52320.88B	52323.82	52222.27B	52224.31B			
13.5	52458.78	52461.95	52352.13	52354.38B	52329.93	52333.24	52223.43B	52225.74			
14.5	52469.56	52473.20	52355.01	52357.72	52339.39	52343.22	52224.89B	52227.72B			
15.5	52480.94	52485.05	52358.50	52361.64	52349.10B	52353.71	52227.11B	52230.29B			
16.5	52492.98	52497.60	52362.61	52366.21	52359.86B	52364.72	52229.66B	52233.43			
17.5	52505.51	52510.74	52367.31	52371.45					52236.99		
18.5	52518.70	52524.51	52372.65B	52377.25							
19.5			52378.51B	52383.76							
20.5			52385.03								

J	R ₂₂		P ₂₂		R ₂₁		P ₂₁			
	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>		
1.5	52274.11B									
2.5	52277.69		52259.00B		52397.877	52397.598	52379.15B			
3.5	52284.52	52284.11B	52253.27B		52405.001	52404.493	52373.84			
4.5	52292.59B	52291.88B	52250.11B	52249.66B	52413.50B	52412.77	52371.08B	52370.83		
5.5	52301.30B	52300.49	52250.68B	52249.66B	52422.85	52421.79B	52371.60	52371.08B		
6.5	52310.82	52309.65	52251.30	52250.68B	52432.91	52431.66	52373.35	52372.65B		
7.5	52320.88B	52319.39	52253.27B	52252.35	52443.65	52442.09	52376.02B	52375.06		
8.5	52331.45	52329.66	52255.83	52254.65	52455.04	52453.14B	52379.43B	52378.15		
9.5	52342.61	52340.46	52259.00B	52257.51	52467.09	52464.84	52383.48	52381.97B		
10.5	52354.38B	52351.79B	52262.73	52260.97	52479.79	52477.14	52388.18	52386.29		
11.5	52366.65	52363.66	52267.04	52264.88	52493.16	52490.04	52393.55	52391.27		
12.5	52379.43B	52376.02B	52271.91	52269.38	52507.10	52503.55	52399.56	52396.87		
13.5	52392.84	52388.94B	52277.38	52274.40	52521.70	52517.69	52406.20	52403.10		
14.5	52406.93B	52402.38	52283.34	52279.92	52536.95	52532.42	52413.50B	52409.94		
15.5	52421.35B	52416.33	52289.93	52286.00	52552.83	52547.71	52421.35B	52417.34		
16.5	52436.39	52430.83	52297.06	52292.59B	52569.33	52563.63	52430.07B	52425.40		
17.5	52451.98	52445.84	52304.66B	52299.74	52586.43	52580.11	52439.05B	52434.03		
18.5	52468.16	52461.37	52312.98	52307.44	52604.20	52597.26	52449.01	52443.27		
19.5			52321.77B	52315.62			52459.41	52453.14B		
20.5			52324.36							

$\delta(1,0)$ band [C(1)-X(0)]									
J	R ₁₁		P ₁₁		R ₁₂		P ₁₂		
	ee	ff	ee	ff	ee	ff	ee	ff	
0.5	54692.74B								
1.5	54695.19				54575.23B				
2.5	54698.32		54679.26		54578.21B		54559.11		
3.5	54701.99B		54675.10		54581.49B		54554.62		
4.5	54706.08B	54706.52	54671.54B		54585.11B	54585.61	54550.65		
5.5	54710.82	54711.32B	54688.64B		54589.29	54589.93	54547.15		
6.5	54715.96B	54716.72	54665.99	54666.34	54593.89	54594.70B	54543.89	54544.34	
7.5	54721.63	54722.62	54664.01B	54664.51	54598.83B	54599.92b	54541.19	54541.81	
8.5	54727.75	54728.93	54662.37B	54663.26	54604.16	54605.52	54538.88	54539.72	
9.5	54734.35	54735.90	54661.47B	54662.37B	54609.86	54611.51	54536.97	54538.08	
10.5	54741.36	54743.22	54660.84B	54662.37B	54615.93B	54617.87	54535.44B	54536.79	
11.5	54748.75	54750.95	54660.84B	54662.37B	54624.40B	54624.40B	54534.28	54535.94B	
12.5	54756.47	54759.03	54661.05B	54662.98B	54628.81	54631.50	54533.48	54535.44B	
13.5	54764.44	54767.46	54662.02	54664.01B	54635.57	54638.62	54532.96	54535.44B	
14.5	54772.50	54775.81	54662.98B	54665.46B	54642.29B	54645.77	54532.62B	54535.44B	
15.5	54780.44	54784.07	54664.01B	54666.95B	54652.69	54648.93			
16.5	54787.82	54791.71	54665.46B	54688.64B	54654.78	54658.91			
17.5	54793.86	54797.88B	54666.95B	54670.41					
18.5	54797.08	54800.79B	54667.51						
19.5	54795.09	54797.88B							
20.5	54785.60	54787.35							

J	R ₂₂		P ₂₂		R ₂₁		P ₂₁		
	ee	ff	ee	ff	ee	ff	ee	ff	
0.5					54699.33				
1.5	54586.22				54706.08B				
2.5	54593.36	54593.05	54565.75B		54713.47	54713.11	54685.97B		
3.5	54600.75	54600.27b	54565.75B		54721.22	54720.72B	54685.97B		
4.5	54608.56	54607.90	54565.75B		54729.51	54728.93B	54687.744	54687.275	
5.5	54616.82	54615.93B	54566.35	54565.75B	54738.28	54737.32	54687.78	54687.27	
6.5	54625.47	54624.40B	54567.31	54566.66	54747.55	54746.35	54689.39	54688.64	
7.5	54634.54	54633.14	54568.68	54567.76	54757.35	54755.84	54691.48	54690.51	
8.5	54643.99	54642.29B	54570.48	54569.35	54767.46B	54765.77	54694.09	54692.74B	
9.5	54653.80	54651.75	54572.69	54571.27	54778.28	54776.14	54697.16	54695.57B	
10.5	54664.01B	54661.47B	54575.27B	54573.55	54789.39	54786.86	54700.72	54698.89	
11.5	54674.32	54671.54B	54578.21B	54576.17	54800.79	54797.88B	54704.73	54702.55	
12.5	54684.95	54681.72	54581.49B	54579.10	54812.53	54809.23	54709.16	54706.08B	
13.5	54695.57B	54691.90	54585.11B	54582.27	54824.32	54820.64	54713.91	54711.32B	
14.5	54706.08B	54701.99B	54588.76	54585.61	54831.92	54835.92	54718.92	54715.96B	
15.5	54715.51	54711.32B	54592.52	54588.97	54846.96	54842.64	54724.03	54720.72B	
16.5			54595.97	54592.14	54856.40	54852.06	54728.93B	54724.92	
17.5			54598.84B	54594.70B	54862.68B	54858.72B	54733.28	54728.93B	
18.5					54863.74	54860.77B			

J	Q ₂₂
1.5	54575.42
2.5	54577.52

J	$\delta(2,0)$ band [C(2)-X(0)]									
	R ₁₁		P ₁₁		P ₁₂		R ₂₂			
	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>
0.5	57073.27									
1.5	57075.46B		57063.93B					56979.47		
2.5	57077.27		57059.88B					56981.99		
3.5	57078.69		57055.41B					56984.36B		
4.5	57079.78		57050.52					56986.51B		
5.5	57080.60		57045.26					56988.94	56988.61	
6.5	57081.39		57039.66					56991.15	56990.55	
7.5	57081.98B		57033.73	57033.86				56993.37	56992.55	
8.5	57081.98B	57082.60B	57027.70	57027.95				56995.68	56994.59	
9.5	57082.30b	57083.08B	57021.35	57021.80B	56896.60B	56897.60b		56998.12	56996.75	
10.5	57082.60B	57083.75B	57015.02	57015.70B	56889.51B	56890.27		57000.64	56999.04	
11.5	57083.08B	57084.60B	57008.67	57009.59B	56882.18	56883.25		57003.55B	57001.45	
12.5	57083.75B	57085.62B	57002.38	57003.55B	56874.80	56876.05		57006.52	57004.60	
13.5	57084.60B	57086.78B	56996.18	56997.68	56867.40	56869.32		57009.59B	57007.10	
14.5	57085.62B	57088.03B	56990.17	56991.98				57013.58	57010.03	
15.5	57086.78B	57090.09	56984.37B	56986.51B				57016.74	57013.02	
16.5	57088.03B	57091.88B	56978.75	56981.03				57020.16	57015.70B	
17.5	57089.24	57092.97	56973.16	56976.52				57023.45	57019.21	
18.5	57090.52	57094.53	56967.71B	56971.52B				57026.44	57021.80B	
19.5	57091.40	57095.76	56962.36	56966.01B						
20.5	57091.88B	57096.44	56956.80B	56960.84						
21.5			56951.06	56955.43						

J	P ₂₂		R ₂₁		P ₂₁		Q ₁₁	Q ₂₂
	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>		
0.5							57068.96	
1.5							57068.26	56971.52B
2.5	56962.91				57083.08B		57067.16B	56970.94
3.5	56958.75B		57104.79		57079.24			56969.96
4.5	56954.48		57107.52		57075.46B			56968.90
5.5	56949.97		57110.24		57071.36			59967.72B
6.5	56945.31		57113.19	57112.52	57067.66	57067.16B		59966.61
7.5	56940.83	56940.41	57116.11	57115.23	57063.93B	57063.10		
8.5	56936.15	56935.54	57119.23	57118.02	57059.88B	57059.03		
9.5	56931.50	56930.67	57122.59	57121.05	57056.03	57055.41B		
10.5	56926.94	56925.86	57126.06	57124.34	57052.39	57051.24		
11.5	56922.53	56921.16	57130.01	57127.80	57049.03	57047.52		
12.5	56918.22	56916.60	57134.14	57132.14	57045.91	57044.14		
13.5	56914.28	56912.19	57138.42	57135.74	57043.10	57040.71B		
14.5	56910.49	56908.48	57143.66	57139.94	57040.71B	57038.55		
15.5	56906.70	56904.21	57148.17	57144.69	57038.24	57035.49		
16.5	56903.94	56900.21B	57153.27	57148.51	57036.78	57032.96B		
17.5	56900.21B	56896.60B	57157.80		57034.68	57030.72		
18.5	56896.60B	56892.44			57032.96B			
19.5	56893.28	56888.93						
20.5	56889.51B	56884.87B						
21.5	56884.87B	56880.06						

J	$\delta(3,0)$ band [C(3)-X(0)]									
	R ₁₁		P ₁₁		R ₂₂		P ₂₂		Q ₂₂	
	ee	ff	ee	ff	ee	ff	ee	ff		
0.5	59211.05									
1.5	59212.47		59202.15		59125.34B					59118.34
2.5	59212.96B		59197.65		59126.81B		59109.58B			59116.86
3.5	59212.96B		59192.38		59127.58B		59104.81			59115.06B
4.5	59211.95		59186.30		59127.58B		59099.33			59112.07
5.5	59210.16		59179.37B		59126.81B		59093.17			
6.5	59207.46		59171.82		59125.34B		59086.32			
7.5	59203.87		59163.33		59122.97	59122.68	59078.68			
8.5	59199.28		59153.97		59119.57	59119.07	59070.21			
9.5	59193.69		59143.68		59115.06B	59114.68	59061.11	59060.84		
10.5	59186.94		59132.44		59109.58B	59109.06	59050.84	59050.48		
11.5	59179.37B		59120.14		59102.60	59102.13	59039.50	59039.09		
12.5	59169.91		59106.74		59094.44	59093.81	59027.07	59026.55		
13.5	59159.41		59092.15		59084.83	59084.12	59013.39	59012.77		
14.5	59147.49		59076.30		59073.71	59073.05	58998.32	58997.67		
15.5	59134.04	59134.41	59059.13				58981.84	58981.14		
16.5	59119.20		59040.48		59046.37	59045.76				
17.5			59020.47		59029.99	59029.54				
18.5			58998.78	58999.07						

B: Blended lines.

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