

The satellite and forbidden branch lines of the Schumann-Runge bands of  $^{18}\text{O}_2$ ,  $\text{cm}^{-1}$ .  
 Lines with C are calculated from the term values.

N	$^P R_{13}$	$^P Q_{12}$	$^P Q_{23}$	$^R Q_{21}$	$^R Q_{32}$	$^R P_{31}$	$^T R_{31}$	$^N P_{13}$
B(11)-X(0) band								
1	55231.19C	55227.23C		55234.97C	55231.56C	55233.47C	55240.93C	
3	55219.98C	55217.93C	55222.34C	55229.91C	55226.24C	55228.21C	55240.20C	55216.50C
5	55204.61C	55202.61C	55206.94C	55218.96C	55215.24C	55217.23C	55233.63C	55196.93C
7	55183.37C	55181.40C	55185.71C	55202.15C	55198.42C	55200.44C	55221.21C	55171.36C
9	55156.27C	55154.33C	55158.64C	55179.48C	55175.75C	55177.79C	55202.91C	55139.92C
B(12)-X(0) band								
1	55584.75	55580.76C		55588.74	55585.34	55587.32C	55594.23	
3	55573.43C	55571.34	55576.09	55583.40C	55579.67	55581.63C	55592.95	55570.04C
5	55557.70C	55555.59	55560.32	55571.89C	55568.09C	55570.09C	55585.73C	55550.27
7	55535.88C	55533.79	55538.65	55554.10	55550.51C	55552.53C	55572.34C	55524.33
9	55507.98C	55506.03C	55510.67	55530.64C	55526.88C	55528.92C	55552.86C	55492.32
B(13)-X(0) band								
1	55899.76	55895.63		55903.81	55900.51C	55902.42C	55909.01C	
3	55888.17C	55886.11C	55891.25C	55898.06C	55894.32C	55896.29C	55907.08C	55884.91C
5	55872.04C	55870.04C	55875.09C	55885.91C	55882.11C	55884.11C	55898.90C	55865.11C
7	55849.57C	55847.60C	55852.67C	55867.46C	55863.68C	55865.70C	55884.42C	55838.79C
9	55820.78C	55818.84C	55823.96C	55842.69C	55838.97C	55841.01C	55863.63C	55806.18
B(14)-X(0) band								
1	56173.88C	56169.92C		56178.00	56175.04C	56176.95C	56183.05C	
3	56162.31C	56160.26C	56165.42	56172.10C	56168.36C	56170.32C	56180.40C	56159.24
5	56145.75C	56143.75C	56149.13C	56159.25C	56155.43C	56157.42C	56171.25C	56139.25C
7	56122.56C	56120.60C	56126.00C	56139.82C	56136.04C	56138.06C	56155.57C	56112.50C
9	56092.79C	56090.84C	56096.32C	56113.82C	56110.12C	56112.16C	56133.31C	56079.11C
B(15)-X(0) band								
1	56407.57	56403.41		56412.13	56409.81	56410.97C	56416.52C	
3	56395.63C	56393.45	56399.40	56405.55C	56401.83C	56403.80C	56413.08C	56392.75
5	56378.57C	56376.55	56382.28	56391.91C	56388.11C	56390.11C	56402.89C	56372.58
7	56354.58C	56352.61C	56358.66C	56371.42C	56367.68C	56369.69C	56385.88C	56345.27
9	56323.69C	56321.74C	56327.91C	56344.05C	56340.43C	56342.47C	56361.97	56310.95

N	${}^P R_{13}$	${}^P Q_{12}$	${}^P Q_{23}$	${}^R Q_{21}$	${}^R Q_{32}$	${}^R P_{31}$	${}^T R_{31}$	${}^N P_{13}$
B(16)-X(0) band								
1	56601.25	56597.10		56606.59	56603.47	56605.27	56610.42	
3	56589.14C	56587.06	56594.23C	56599.55C	56595.62	56597.84C	56606.30	56586.46
5	56571.55C	56569.62	56576.41	56585.08C	56581.14	56583.31C	56594.98C	56566.14
7	56546.69C	56544.68	56551.59	56563.44C	56559.70	56561.78C	56576.41	56538.29
9	56514.60C	56512.66C	56519.93C	56534.62C	56531.11C	56533.15C	56550.99C	56503.21
B(17)-X(0) band								
1	56757.07	56753.90		56764.80	56761.72	56763.56	56768.22C	
3	56745.75C	56743.76	56752.14	56757.90	56753.37	56755.49C	56763.09C	56743.30
5	56727.64C	56725.62	56733.98	56741.67	56738.04	56740.12C	56750.68C	56722.83
7	56701.90C	56699.86	56708.39	56718.78	56715.39	56717.48C	56730.81	56694.39
9	56668.59C	56666.64C	56675.54C	56688.75C	56685.43C	56687.46C	56703.56	56658.41
B(18)-X(0) band								
1	56881.95C	56877.99		56890.81C	56887.80	56889.79	56893.64	
3	56869.56C	56867.19	56878.16	56882.43C	56878.94	56880.93C	56887.80	56867.26C
5	56850.86C	56848.87C	56859.47	56866.17	56862.63	56864.74C	56874.45	56846.43
7	56824.19C	56822.23C	56833.01C	56842.28C	56838.96C	56840.98C	56852.87	56817.55
9	56789.60C	56787.66C	56798.77C	56810.44C	56807.45C	56809.49C	56823.80C	56780.68

References:

*Wavelength Measurements and Analysis of the Schumann-Runge Bands of  ${}^{18}O_2$  in the Region 175-205 nm*, A.S-C. Cheung, K. Yoshino, D.E. Freeman and W.H. Parkinson, *J. Mol. Spectrosc.* **131**, 96-112 (1988).