

Supplementary Material

Incorrect (either in position or in intensity or in identification)
lines in the 6131-6749 cm⁻¹ spectral region in the HITRAN-2000
database.

Frequency, cm ⁻¹	Intensity, cm/molecule	VIB	J	Ka	Kc	J	Ka	Kc
		upper	lower	upper	lower	upper	lower	lower
6131.334300	6.250E-27	011	000	7 7	1 6	3 4		
6143.063200	9.930E-27	011	000	9 7	2 8	3 5		
6153.007000	1.400E-26	040	000	7 3	5 8	2 6		
6155.862000	3.760E-27	011	000	13 6	7 12	2 10		
6158.159800	6.400E-27	011	000	8 7	2 7	3 5		
6218.941600	6.770E-27	011	000	10 7	4 9	3 7		
6227.128500	6.880E-27	011	000	12 4	8 11	0 11		
6234.891000	1.800E-26	040	000	6 2	4 7	1 7		
6260.778000	4.300E-26	040	000	7 3	4 8	2 7		
6278.464000	3.100E-26	040	000	6 2	4 6	1 5		
6282.152000	2.700E-26	040	000	5 2	3 4	3 2		
6282.293000	4.900E-27	021	000	11 2	10 12	4 9		
6284.230000	6.900E-27	120	000	9 1	8 10	4 7		
6285.052000	5.100E-27	120	000	6 1	6 7	4 3		
6287.993000	5.800E-27	120	000	6 2	5 7	5 2		
6290.011000	3.500E-27	021	000	8 1	7 9	5 4		
6301.612000	5.600E-26	040	000	3 3	0 4	2 3		
6304.408000	3.900E-27	120	000	8 2	6 9	5 5		
6306.247000	3.300E-26	040	000	6 1	5 5	2 4		
6317.402000	1.200E-26	040	000	6 2	4 5	3 3		
6321.937000	1.700E-26	120	000	7 2	5 8	5 4		
6328.362000	5.000E-27	021	000	11 3	9 12	5 8		
6335.034000	6.800E-27	021	000	10 2	9 11	4 8		
6337.492000	5.700E-27	120	000	6 2	4 7	5 3		
6341.493000	4.100E-27	120	000	5 1	5 6	4 2		
6343.809000	1.100E-26	040	000	8 1	7 8	0 8		
6346.571000	3.100E-27	021	000	11 4	8 12	6 7		
6348.188000	2.800E-26	040	000	11 1	11 10	0 10		
6351.697000	2.400E-26	040	000	7 4	3 8	3 6		
6353.112000	1.200E-26	120	000	5 2	3 6	5 2		

6355.806000	3.500E-26	040	000	7	2	5	6	3	4
6356.073000	4.000E-27	120	000	4	2	3	5	5	0
6361.062000	1.300E-26	040	000	12	0	12	11	1	11
6363.968000	4.000E-26	040	000	7	3	4	7	2	5
6366.505000	1.100E-26	040	000	9	2	7	9	1	8
6367.011000	1.500E-26	040	000	5	2	4	4	1	3
6369.605000	1.200E-26	040	000	6	4	2	7	3	5
6371.347000	6.600E-27	021	000	10	3	8	11	5	7
6373.908000	2.000E-26	040	000	4	3	2	5	0	5
6374.009000	1.700E-26	040	000	13	0	13	12	1	12
6377.413000	1.800E-26	040	000	9	1	8	9	0	9
6378.265000	3.100E-26	040	000	8	1	7	7	2	6
6385.048000	3.000E-27	021	000	11	2	9	12	4	8
6389.654000	1.500E-26	040	000	7	3	4	6	4	3
6390.114000	1.800E-26	120	000	4	1	4	5	4	1
6395.611000	5.700E-26	040	000	3	3	1	3	2	2
6398.645000	3.800E-26	040	000	7	2	6	6	1	5
6411.982000	6.900E-26	040	000	9	1	8	8	2	7
6417.027000	5.900E-27	021	000	8	6	2	9	8	1
6417.671000	1.000E-25	040	000	8	2	7	7	1	6
6420.040000	6.100E-27	120	000	9	3	7	10	4	6
6421.981000	1.100E-26	021	000	9	4	5	10	6	4
6426.311000	2.200E-26	040	000	7	3	5	7	2	6
6426.398000	4.400E-27	021	000	11	3	8	12	5	7
6432.171000	4.000E-27	120	000	3	1	3	4	4	0
6438.927000	2.500E-26	040	000	9	2	8	8	1	7
6439.469000	1.900E-26	040	000	9	2	7	8	3	6
6443.562000	1.400E-26	040	000	10	1	9	9	2	8
6446.827000	6.200E-27	200	000	10	2	9	11	5	6
6447.021000	3.400E-26	120	000	4	1	3	5	4	2
6453.098000	7.800E-27	200	000	12	1	12	13	2	11
6459.232000	4.700E-27	120	000	6	2	5	6	5	2
6459.569000	8.300E-27	120	000	6	1	6	6	4	3
6461.654000	4.700E-26	040	000	10	2	9	9	1	8
6466.738000	3.500E-26	120	000	3	1	2	4	4	1
6473.040000	2.300E-26	040	000	11	1	10	10	2	9
6473.134000	3.100E-27	200	000	8	4	5	9	7	2

6477.028000	1.600E-26	120	000	9	4	6	10	5	5
6477.370000	9.300E-27	021	000	16	0	16	17	0	17
6477.370000	3.100E-27	021	000	16	1	16	17	1	17
6477.622000	1.100E-26	040	000	4	3	1	4	0	4
6481.892000	1.100E-26	040	000	6	4	3	7	1	6
6483.487000	3.000E-27	200	000	12	1	11	13	4	10
6485.276000	5.000E-26	120	000	12	0	12	13	1	13
6485.297000	1.500E-25	120	000	12	1	12	13	0	13
6489.161000	3.900E-27	120	000	5	1	5	5	4	2
6489.720000	4.000E-27	101	000	9	7	3	10	9	2
6489.722970	1.490E-26	101	000	6	3	3	7	7	0
6495.060000	1.100E-26	200	000	12	2	11	13	3	10
6495.631000	3.300E-27	200	000	9	3	7	10	6	4
6497.167000	3.900E-26	040	000	5	3	2	5	0	5
6499.502480	3.980E-26	120	000	9	5	5	10	6	4
6499.633000	4.900E-27	120	000	5	2	3	5	5	0
6504.141000	2.000E-25	120	000	8	4	5	9	5	4
6504.959000	1.400E-26	021	000	15	0	15	16	0	16
6505.337000	4.600E-27	120	000	9	1	8	9	4	5
6505.862000	3.600E-27	200	000	7	4	3	8	7	2
6507.381550	8.190E-26	120	000	11	1	11	12	0	12
6507.783000	1.500E-26	120	000	7	0	7	7	3	4
6508.508000	4.600E-27	120	000	6	2	4	6	5	1
6508.696000	1.100E-26	040	000	12	2	11	11	1	10
6510.363000	4.500E-25	120	000	11	0	11	12	1	12
6512.147000	7.300E-27	021	000	8	1	7	8	5	4
6512.308000	8.400E-26	120	000	8	4	4	9	5	5
6512.348000	7.900E-27	120	000	4	1	4	4	4	1
6513.870000	7.200E-27	101	000	10	6	4	11	8	3
6514.620000	1.600E-25	120	000	9	3	6	10	4	7
6514.858000	7.500E-27	200	000	9	2	8	10	5	5
6515.456000	3.400E-26	040	000	7	4	3	7	3	4
6517.247000	1.200E-26	120	000	12	1	12	12	2	11
6517.273000	2.100E-26	120	000	7	2	5	7	5	2
6517.362000	3.900E-27	120	000	12	0	12	12	1	11
6518.580000	1.100E-26	200	000	11	1	11	12	2	10
6518.641000	3.400E-27	200	000	11	3	8	12	6	7

6520.103000	1.800E-26	040	000	6	3	4	5	2	3
6523.483000	6.500E-27	120	000	8	2	6	8	5	3
6524.311000	1.100E-26	120	000	9	2	7	9	5	4
6524.456000	1.100E-26	040	000	6	3	3	6	0	6
6524.751000	2.300E-26	040	000	6	4	2	6	3	3
6526.004000	1.500E-25	120	000	8	5	4	9	6	3
6526.641000	4.900E-26	120	000	8	5	3	9	6	4
6526.908000	7.900E-27	120	000	9	6	4	10	7	3
6527.031000	2.400E-26	120	000	9	6	3	10	7	4
6530.855000	5.600E-26	021	000	14	1	14	15	1	15
6534.487000	7.100E-25	120	000	7	4	3	8	5	4
6534.657000	3.000E-27	101	000	12	2	11	13	4	10
6536.347000	1.300E-25	120	000	11	1	10	12	2	11
6537.128000	8.200E-26	040	000	6	4	3	6	3	4
6537.609000	8.900E-27	120	000	8	1	7	8	4	4
6540.454000	1.600E-26	040	000	7	4	4	7	3	5
6543.148000	1.400E-26	120	000	11	1	11	11	2	10
6543.387000	4.100E-26	120	000	11	0	11	11	1	10
6544.461000	1.100E-26	040	000	6	5	2	7	4	3
6544.919000	4.400E-26	120	000	10	2	8	11	3	9
6545.784000	3.000E-26	040	000	8	3	6	7	2	5
6546.202000	2.300E-26	040	000	8	4	5	8	3	6
6546.688000	1.000E-26	021	000	15	2	14	16	2	15
6546.696000	3.300E-27	021	000	15	1	14	16	1	15
6552.260000	1.100E-26	021	000	8	1	8	8	3	5
6553.184000	2.700E-26	120	000	6	0	6	6	3	3
6553.384000	7.900E-25	120	000	8	6	3	9	7	2
6553.389000	2.600E-26	120	000	8	6	2	9	7	3
6556.952000	2.100E-26	200	000	11	2	9	12	5	8
6558.564000	2.000E-25	021	000	13	0	13	14	0	14
6559.622000	8.800E-26	120	000	7	1	6	7	4	3
6560.135000	1.900E-26	040	000	7	3	4	7	0	7
6565.040000	1.100E-26	200	000	9	3	6	10	6	5
6565.327000	3.700E-26	120	000	8	7	2	9	8	1
6565.327000	1.200E-26	120	000	8	7	1	9	8	2
6568.913000	5.000E-26	120	000	6	1	5	6	4	2
6568.917000	1.500E-26	021	000	14	2	13	15	2	14

6568.925000	4.300E-26	120	000	10	0	10	10	1	9
6569.001000	1.500E-26	120	000	4	1	3	4	4	0
6570.340000	9.000E-27	101	000	11	0	11	12	2	10
6571.479000	1.300E-25	120	000	5	1	4	5	4	1
6572.032000	3.000E-27	200	000	6	0	6	7	5	3
6572.328000	1.000E-25	120	000	10	3	8	11	2	9
6574.347000	8.800E-27	200	000	7	3	5	8	6	2
6575.853690	5.210E-26	120	000	7	6	1	8	7	2
6576.530000	1.500E-26	040	000	10	3	8	9	2	7
6584.341000	5.700E-27	200	000	8	3	5	9	6	4
6584.556000	8.000E-27	021	000	13	3	10	14	3	11
6587.323000	2.600E-25	120	000	5	0	5	5	3	2
6589.742000	7.900E-27	021	000	13	0	13	13	2	12
6590.296000	5.800E-26	021	000	13	1	12	14	1	13
6592.992000	1.900E-26	021	000	13	2	11	14	2	12
6593.467000	1.700E-26	040	000	7	3	4	6	2	5
6597.690000	6.100E-26	021	000	13	3	11	14	3	12
6601.251000	4.000E-24	120	000	4	3	1	5	4	2
6604.052000	8.800E-25	120	000	5	5	1	6	6	0
6604.737000	6.100E-27	021	000	11	3	9	11	5	6
6605.978000	2.300E-26	101	000	9	5	4	10	7	3
6606.789000	1.600E-26	101	000	7	6	1	8	8	0
6607.957000	2.500E-26	021	000	13	4	10	14	4	11
6609.205310	4.950E-26	101	000	9	3	7	9	7	2
6609.759000	3.700E-26	120	000	7	7	1	8	8	0
6609.759000	1.100E-25	120	000	7	7	0	8	8	1
6610.745000	1.500E-25	120	000	4	0	4	4	3	1
6613.580000	1.500E-26	101	000	11	1	10	12	3	9
6619.348000	9.500E-26	021	000	11	4	7	12	4	8
6620.216000	8.100E-26	021	000	12	3	10	13	3	11
6620.418000	3.300E-26	120	000	11	1	10	11	2	9
6620.452000	4.800E-27	101	000	6	2	4	7	6	1
6622.667000	8.200E-27	200	000	6	3	3	7	6	2
6623.144000	1.300E-26	200	000	12	4	9	13	5	8
6626.402000	8.200E-27	200	000	5	0	5	6	5	2
6628.848000	2.500E-26	200	000	11	3	9	12	4	8
6631.766000	5.800E-26	040	000	4	4	1	3	3	0

6631.970000	1.900E-26	040	000	4	4	0	3	3	1
6632.428000	9.000E-27	021	000	10	3	8	10	5	5
6633.789560	6.140E-26	021	000	12	4	9	13	4	10
6634.628000	1.100E-25	101	000	10	0	10	11	2	9
6635.503000	1.300E-25	120	000	10	2	9	10	3	8
6636.323000	5.200E-27	021	000	11	4	8	11	6	5
6639.999000	1.300E-26	040	000	5	4	1	5	1	4
6643.082000	1.300E-26	200	000	12	5	8	13	6	7
6643.642000	5.500E-27	200	000	5	3	3	6	6	0
6643.704000	7.800E-27	021	000	9	5	5	9	7	2
6644.101000	3.700E-27	021	000	8	5	4	8	7	1
6644.510000	3.100E-27	021	000	7	5	2	7	7	1
6644.790000	9.400E-27	021	000	7	5	3	7	7	0
6645.173000	1.200E-26	101	000	11	4	7	12	6	6
6645.362000	1.600E-26	200	000	5	3	2	6	6	1
6648.590000	4.100E-27	021	000	14	1	13	14	3	12
6649.418000	1.400E-25	200	000	9	1	9	10	2	8
6650.749000	1.900E-24	021	000	9	3	6	10	3	7
6653.599000	1.800E-26	040	000	7	4	3	7	1	6
6654.584000	6.000E-26	101	000	10	2	9	11	4	8
6656.660000	8.900E-26	200	000	9	8	1	10	9	2
6656.660000	3.000E-26	200	000	9	8	2	10	9	1
6657.210000	2.700E-26	200	000	11	6	5	12	7	6
6657.677000	2.400E-26	021	000	7	4	3	7	6	2
6657.873000	9.500E-27	200	000	11	6	6	12	7	5
6659.034000	2.100E-26	101	000	12	3	9	13	5	8
6660.118340	4.650E-26	120	000	10	1	10	9	2	7
6663.293000	6.600E-26	021	000	8	3	6	8	5	3
6663.599000	1.500E-26	120	000	9	4	6	10	3	7
6665.798000	6.000E-26	021	000	11	5	6	12	5	7
6666.201000	1.200E-26	021	000	9	4	5	9	6	4
6670.066000	5.900E-27	021	000	13	1	12	13	3	11
6677.887000	3.400E-27	200	000	12	5	7	13	6	8
6678.475150	1.300E-25	021	000	10	4	7	11	4	8
6679.298000	3.000E-26	200	000	11	4	8	12	5	7
6680.913000	1.900E-26	200	000	11	5	7	12	6	6
6685.269000	6.900E-26	200	000	9	7	3	10	8	2

6685.269000	2.100E-25	200	000	9	7	2	10	8	3
6685.407000	9.700E-26	200	000	8	8	0	9	9	1
6685.407000	2.900E-25	200	000	8	8	1	9	9	0
6688.512000	4.300E-27	120	000	7	2	5	6	5	2
6688.562000	1.200E-25	200	000	10	6	5	11	7	4
6691.181000	3.600E-27	021	000	12	4	8	12	6	7
6692.202760	5.020E-26	200	000	10	6	4	11	7	5
6692.902000	1.400E-25	021	000	7	3	4	7	5	3
6693.250000	1.500E-26	200	000	10	1	10	10	4	7
6693.713000	1.400E-26	120	000	5	1	4	4	4	1
6693.850000	1.400E-26	021	000	12	2	11	12	2	10
6695.604000	1.200E-25	120	000	9	3	7	9	4	6
6696.061620	7.630E-26	021	000	12	1	12	11	3	9
6697.669150	3.620E-26	031	010	5	1	5	4	3	2
6697.771000	3.500E-26	200	000	11	5	6	12	6	7
6701.165000	2.700E-26	120	000	7	0	7	6	3	4
6701.503000	3.400E-25	200	000	8	0	8	9	3	7
6701.849000	3.400E-26	120	000	10	2	8	10	3	7
6706.153000	7.500E-27	200	000	7	0	7	7	5	2
6709.368000	2.000E-26	120	000	4	0	4	3	3	1
6711.986700	1.860E-25	101	000	8	1	8	8	5	3
6712.843000	9.800E-25	021	000	4	1	4	4	3	1
6713.448000	5.200E-26	200	000	5	2	4	6	5	1
6713.619000	8.700E-26	120	000	5	0	5	4	3	2
6715.212000	2.900E-26	040	000	7	5	2	7	4	3
6716.581000	1.200E-26	120	000	6	1	5	5	4	2
6717.687000	3.600E-27	021	000	13	2	11	13	4	10
6717.848000	1.500E-25	200	000	9	6	4	10	7	3
6717.922000	1.600E-26	040	000	6	5	1	6	4	2
6718.511000	4.300E-25	200	000	9	6	3	10	7	4
6718.546000	1.500E-26	040	000	8	5	4	8	4	5
6718.687000	1.000E-26	040	000	7	5	3	7	4	4
6718.865000	5.200E-26	040	000	5	5	0	5	4	1
6718.974000	4.900E-26	040	000	6	5	2	6	4	3
6719.092000	1.700E-26	040	000	5	5	1	5	4	2
6722.913000	6.000E-26	200	000	10	5	5	11	6	6
6726.758000	8.100E-26	120	000	9	4	6	9	5	5

6727.105000	2.300E-26	200	000	10	2	9	10	5	6
6733.395000	1.200E-25	021	000	10	3	7	10	5	6
6734.139000	3.500E-26	120	000	7	1	6	6	4	3
6734.233000	4.400E-26	021	000	12	2	10	12	4	9
6734.470000	6.400E-27	021	000	13	3	11	13	3	10
6734.691000	3.200E-25	120	000	9	4	5	9	5	4
6735.727000	6.500E-25	120	000	9	3	6	9	4	5
6736.339000	9.800E-27	200	000	10	0	10	10	3	7
6739.612000	1.900E-26	021	000	12	3	9	12	5	8
6739.851000	5.200E-27	200	000	9	3	7	9	6	4
6741.297000	1.700E-26	021	000	11	3	8	11	5	7
6742.439000	6.700E-25	200	000	7	7	1	8	8	0
6744.241000	3.600E-26	120	000	9	5	5	9	6	4
6745.404000	1.100E-25	120	000	9	5	4	9	6	3
6745.483000	6.400E-27	021	000	10	1	10	9	3	7
6745.777000	2.400E-25	120	000	8	5	4	8	6	3
6746.247000	8.200E-26	120	000	8	5	3	8	6	2
6746.447000	5.200E-27	120	000	9	2	7	8	5	4
6746.494000	1.600E-26	200	000	9	1	9	9	4	6
6747.223000	8.400E-26	200	000	4	2	3	5	5	0
6747.654000	5.200E-26	021	000	11	2	9	11	4	8
6748.216000	2.900E-23	021	000	7	4	4	8	4	5
6748.268000	2.700E-26	101	000	5	1	4	6	5	1
6748.440000	1.400E-26	120	000	7	1	7	6	2	4