

Assigned rotational lines of the $B^1\Pi - X^1\Sigma$ electronic transition of $Y^{35}\text{Cl}(\text{cm}^{-1})$

| J | (2,0) band | | | (2,1) band | | |
|----|------------|------------|------------|-------------|-------------|-------------|
| | P | Q | R | P | Q | R |
| 0 | | | 12757.9992 | | | 12380.1412* |
| 1 | | 12757.7643 | 12758.1993 | | 12379.9086 | 12380.3426* |
| 2 | 12757.2907 | 12757.7283 | 12758.3797 | 12379.4384* | 12379.8733 | 12380.5249* |
| 3 | 12757.0183 | 12757.6730 | 12758.5421 | 12379.1662 | 12379.8207 | 12380.6898* |
| 4 | 12756.7259 | 12757.5982 | 12758.6882 | 12378.8790 | 12379.7517 | 12380.8388* |
| 5 | 12756.4178 | 12757.5049 | 12758.8133 | 12378.5714 | 12379.6639 | 12380.9691* |
| 6 | 12756.0894 | 12757.3952 | 12758.9189 | 12378.2519 | 12379.5615 | 12381.0817* |
| 7 | 12755.7438 | 12757.2685 | 12759.0091 | 12377.9139 | 12379.4384* | 12381.1786* |
| 8 | 12755.3786 | 12757.1219 | 12759.0821 | 12377.5612 | 12379.3003 | 12381.2573* |
| 9 | 12754.9959 | 12756.9563 | 12759.1334 | 12377.1814 | 12379.1435 | 12381.3183* |
| 10 | 12754.5956 | 12756.7723 | 12759.1669 | 12376.7898 | 12378.9698 | 12381.3605* |
| 11 | 12754.1746 | 12756.5719 | 12759.1821 | 12376.3800 | 12378.7788 | 12381.3884* |
| 12 | 12753.7357 | 12756.3543 | 12759.1803 | 12375.9513 | 12378.5714 | 12381.3953 |
| 13 | 12753.2784 | 12756.1137 | 12759.1594 | | 12378.3441 | 12381.3884* |
| 14 | 12752.8007 | 12755.8567 | 12759.1200 | | 12378.1004 | 12381.3605* |
| 15 | 12752.3093 | 12755.5817 | 12759.0599 | | 12377.8391 | 12381.3183* |
| 16 | 12751.7982 | 12755.2896 | 12758.9836 | | 12377.5612 | 12381.2573* |
| 17 | 12751.2690 | 12754.9770 | 12758.8871 | | 12377.2661 | 12381.1786* |
| 18 | 12750.7186 | 12754.6478 | 12758.7753 | | 12376.9531 | 12381.0817* |
| 19 | 12750.1523 | 12754.2991 | 12758.6431 | | 12376.6227 | 12380.9691* |
| 20 | 12749.5654 | 12753.9315 | 12758.4940 | | 12376.2735 | 12380.8388* |
| 21 | 12748.9639 | 12753.5464 | 12758.3253 | | 12375.9097 | 12380.6898* |
| 22 | | 12753.1423 | 12758.1372 | | 12375.5281 | 12380.5249* |
| 23 | | 12752.7226 | 12757.9323 | | 12375.1278 | 12380.3426* |
| 24 | | 12752.2790 | 12757.7099 | | 12374.7117 | 12380.1412* |
| 25 | | 12751.8220 | 12757.4652 | | 12374.2776 | 12379.9224 |
| 26 | | 12751.3450 | 12757.2054 | | 12373.8241 | 12379.6856 |
| 27 | | 12750.8498 | 12756.9256 | | 12373.3537 | |
| 28 | | 12750.3356 | 12756.6292 | | 12372.8681 | |

* indicate overlapped with another line

Assigned rotational lines of the $B^1\Pi - X^1\Sigma$ electronic transition of $Y^{35}\text{Cl}(\text{cm}^{-1})$

| J | (3,1) band | | | (4,2) band | | |
|----|-------------|-------------|------------|-------------|-------------|-------------|
| | P | Q | R | P | Q | R |
| 0 | | | 12704.5211 | | | 12651.2043 |
| 1 | | 12704.2862 | 12704.7183 | | 12650.9700 | 12651.4031 |
| 2 | 12703.8151 | 12704.2495 | 12704.8989 | 12650.5019 | 12650.9344 | 12651.5819 |
| 3 | 12703.5439 | 12704.1948 | 12705.0594 | 12650.2311 | 12650.8785 | 12651.7428 |
| 4 | 12703.2530 | 12704.1209 | 12705.2049 | 12649.9419 | 12650.8069 | 12651.8857 |
| 5 | 12702.9450 | 12704.0300 | 12705.3291 | 12649.6336 | 12650.7138 | 12652.0086 |
| 6 | 12702.6176 | 12703.9197 | 12705.4352 | 12649.3090 | 12650.6034 | 12652.1144 |
| 7 | 12702.2718 | 12703.7906 | 12705.5234 | 12648.9623 | 12650.4767 | 12652.2013 |
| 8 | 12701.9054 | 12703.6445 | 12705.5944 | 12648.6018 | 12650.3278 | 12652.2698 |
| 9 | 12701.5260 | 12703.4793 | 12705.6454 | 12648.2195 | 12650.1635 | 12652.3198 |
| 10 | 12701.1244 | 12703.2958 | 12705.6772 | 12647.8198 | 12649.9811 | 12652.3526 |
| 11 | 12700.7061 | 12703.0943 | 12705.6908 | 12647.4020 | 12649.7784 | 12652.3652* |
| 12 | 12700.2692 | 12702.8748 | 12705.6908 | 12646.9655 | 12649.5592 | 12652.3652* |
| 13 | 12699.8125 | 12702.6360 | 12705.6664 | 12646.5102 | 12649.3207 | 12652.3385 |
| 14 | 12699.3383 | 12702.3792 | 12705.6259 | 12646.0375 | 12649.0648 | 12652.2960 |
| 15 | 12698.8469 | 12702.1060 | 12705.5678 | 12645.5466 | 12648.7877 | 12652.2366 |
| 16 | 12698.3375* | 12701.8112 | 12705.4886 | 12645.0353* | 12648.4961 | 12652.1581 |
| 17 | 12697.8063 | 12701.4989 | 12705.3928 | 12644.5087 | 12648.1846 | 12652.0623 |
| 18 | 12697.2582 | 12701.1676 | 12705.2790 | 12643.9604 | 12647.8546 | 12651.9474 |
| 19 | 12696.6934 | 12700.8191 | 12705.1474 | | 12647.5049 | 12651.8131 |
| 20 | | 12700.4523 | 12704.9945 | | 12647.1381 | 12651.6601 |
| 21 | | 12700.0681 | 12704.8272 | | 12646.7529 | 12651.4895 |
| 22 | | 12699.6639 | 12704.6377 | | 12646.3495 | 12651.3023 |
| 23 | | 12699.2417 | 12704.4316 | | 12645.9279 | 12651.0958 |
| 24 | | 12698.8030 | 12704.2070 | | 12645.4871 | |
| 25 | | 12698.3375* | 12703.9654 | | 12645.0353* | |
| 26 | | 12697.8668 | 12703.7036 | | 12644.5525 | |
| 27 | | 12697.3726 | 12703.4227 | | 12644.0599 | |
| 28 | | 12696.8600 | 12703.1244 | | | |
| 29 | | 12696.3225 | 12702.8083 | | | |
| 30 | | | 12702.4720 | | | |

* indicate overlapped with another line

Assigned rotational lines of the $B^1\Pi - X^1\Sigma$ electronic transition of $Y^{37}\text{Cl}(\text{cm}^{-1})$

| | (2,0) band | | | (2,1) band | | |
|----|------------|-------------|-------------|-------------|-------------|-------------|
| | P | Q | R | P | Q | R |
| 0 | | | 12745.7693 | | | 12375.2674* |
| 1 | | 12745.5397 | 12745.9599 | | 12375.0390 | 12375.4583* |
| 2 | 12745.0866 | 12745.5044* | 12746.1343 | 12374.5886* | 12375.0061 | 12375.6351* |
| 3 | 12744.8250 | 12745.4526 | 12746.2900 | 12374.3288 | 12374.9568 | 12375.7926* |
| 4 | 12744.5439 | 12745.3825 | 12746.4285 | 12374.0529 | 12374.8884 | 12375.9352* |
| 5 | 12744.2474 | 12745.2941 | 12746.5498 | 12373.7565* | 12374.8043 | 12376.0614* |
| 6 | 12743.9313 | 12745.1880 | 12746.6529 | 12373.4488 | 12374.7057 | 12376.1708* |
| 7 | 12743.5988 | 12745.0663 | 12746.7397 | 12373.1227 | 12374.5886* | 12376.2616* |
| 8 | 12743.2465 | 12744.9247 | 12746.8068 | 12372.7793 | 12374.4552 | 12376.3380* |
| 9 | 12742.8798 | 12744.7657 | 12746.8585* | 12372.4185 | 12374.3051 | 12376.3952* |
| 10 | 12742.4943 | 12744.5903 | 12746.8908* | 12372.0401 | 12374.1381 | 12376.4377* |
| 11 | 12742.0893 | 12744.3971 | 12746.9059* | 12371.6457 | 12373.9543 | 12376.4619* |
| 12 | 12741.6693 | 12744.1859 | 12746.9059* | 12371.2370 | 12373.7565* | 12376.4687 |
| 13 | 12741.2304 | 12743.9570 | 12746.8908* | 12370.8108 | 12373.5356 | 12376.4619* |
| 14 | 12740.7759 | 12743.7121 | 12746.8471 | 12370.3674 | 12373.3041 | 12376.4377* |
| 15 | 12740.3010 | 12743.4459 | 12746.7914 | 12369.9075 | 12373.0522 | 12376.3952* |
| 16 | 12739.8094 | 12743.1657 | 12746.7193 | 12369.4314 | 12372.7840 | 12376.3380* |
| 17 | 12739.2981 | 12742.8663 | 12746.6274 | 12368.9370 | 12372.5012 | 12376.2616* |
| 18 | 12738.7731 | 12742.5487 | 12746.5207 | 12368.4267 | 12372.2010 | 12376.1708* |
| 19 | | 12742.2157 | 12746.3947 | | 12371.8834 | 12376.0614* |
| 20 | | 12741.8619 | 12746.2507 | | 12371.5503 | 12375.9352* |
| 21 | | 12741.4936 | 12746.0892 | | 12371.1980 | 12375.7926* |
| 22 | | 12741.1087 | 12745.9110 | | 12370.8324 | 12375.6351* |
| 23 | | 12740.7031 | 12745.7151 | | 12370.4487 | 12375.4583* |
| 24 | | 12740.2796 | 12745.5044* | | 12370.0485 | 12375.2674* |
| 25 | | 12739.8399 | 12745.2685 | | 12369.6322 | 12375.0531 |
| 26 | | 12739.3800 | 12745.0191 | | | 12374.8331 |
| 27 | | 12738.9056 | 12744.7507 | | | |
| 28 | | 12738.4113 | | | | |

* indicate overlapped with another line

Assigned rotational lines of the $B^1\Pi - X^1\Sigma$ electronic transition of $Y^{35}\text{Cl}(\text{cm}^{-1})$

| J | (4,1) band | | |
|----|-------------|-------------|-------------|
| | P | Q | R |
| 0 | | | 13026.8452 |
| 1 | | 13026.6086 | 13027.0404 |
| 2 | 13026.1375 | 13026.5705 | 13027.2189 |
| 3 | 13025.8638 | 13026.5129 | 13027.3755 |
| 4 | 13025.5680* | 13026.4353 | 13027.5136 |
| 5 | 13025.2583 | 13026.3386 | 13027.6342 |
| 6 | | 13026.2233 | 13027.7338 |
| 7 | | 13026.0887 | 13027.8144 |
| 8 | | 13025.9337 | 13027.8742 |
| 9 | | 13025.7599 | 13027.9174 |
| 10 | | 13025.5680* | 13027.9410* |
| 11 | | 13025.3555 | 13027.9410* |
| 12 | | | 13027.9245 |
| 13 | | | 13027.8895 |
| 14 | | | 13027.8343 |
| 15 | | | 13027.7620 |
| 16 | | | 13027.6676 |
| 17 | | | 13027.5555 |
| 18 | | | 13027.4230 |
| 19 | | | 13027.2722 |
| 20 | | | 13027.0985 |
| 21 | | | 13026.9086 |
| 22 | | | 13026.6997 |
| 23 | | | 13026.4688 |
| 24 | | | 13026.2233 |

* indicate overlapped with another line