

Species Tag:	69001	Name:	OCl-37-O
Version:	2		Chlorine dioxide, X $^2B_1$
Date:	Sept. 1989		$^{37}\text{Cl}$ isotope
Contributor:	H. S. P. Müller		

Lines Listed:	49388	Q(300.0)=	52512.570
Freq. (GHz) <	3273	Q(225.0)=	35415.780
Max. J:	80	Q(150.0)=	19302.330
LOGSTR0=	-8.0	Q(75.00)=	6863.530
LOGSTR1=	-7.0	Q(37.50)=	2458.122
Isotope Corr.:	-0.611	Q(18.75)=	892.447
Egy. ( $\text{cm}^{-1}$ ) >		Q(9.375)=	332.857
$\mu_a =$		A=	50736.864
$\mu_b =$	1.79210	B=	9953.123
$\mu_c =$		C=	8299.136

The lines were taken from (1) M. Tanoura, K. Chiba, K. Tanaka, and T. Tanaka, 1982, J. Mol. Spect. **95**, 157 and (2) H. S. P. Müller, G. O. Sørensen, M. Birk, and R. R. Friedl, 1997, J. Mol. Spect. **186**, 177. The Hamiltonian is the same as used in (2). The fit is a combined one for both isotopomers. The archived files are consequently for both isotopomers, see O $^{35}\text{ClO}$ , tag number 69001. The dipole moment is from (3) K. Tanaka and T. Tanaka, 1983, J. Mol. Spect. **98**, 425.