

Species Tag:	41007	Name:	Si ¹³ C
Version:	1		X ³ Π, v = 0 state
Date:	Dec. 1994		¹³ C isotope
Contributor:	H. M. Pickett		

Lines Listed:	2417	Q(300.0)=	3277.5992
Freq. (GHz) <	9999	Q(225.0)=	2330.4095
Max. J:	90	Q(150.0)=	1408.5707
LOGSTR0=	-7.0	Q(75.00)=	559.0332
LOGSTR1=	-9.0	Q(37.50)=	217.8318
Isotope Corr.:	0.0	Q(18.75)=	97.1513
Egy. (cm ⁻¹) >	0.0	Q(9.375)=	52.0619
$\mu_a =$	1.7	A=	
$\mu_b =$		B=	19203.84
$\mu_c =$		C=	

The millimeter lines are from R. Mollaaghababa, C. A. Gottlieb, J. M. Vrtilik, and P. Thaddeus, 1990, *Astrophys. J. Lett.* Ed. **352**, L21-23. The dipole moment is a theoretical one. (See normal isotope.) The spectra were fitted to a Hund's case (b) Hamiltonian. The correlation of states in case (b) with those for case (a) are:

$$\begin{aligned}
 N = J & \quad \Omega = 0 \\
 N = J + 1 & \quad \Omega = 1 \\
 N = J - 1 & \quad \Omega = 2
 \end{aligned}$$