

Species Tag:	41007	Name:	Si^{13}C
Version:	1		$\text{X } ^3\Pi, v = 0$ 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. Mollaaghbabba, C. A. Gottlieb, J. M. Vrtilek, 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 Hunds case (b) Hamiltonian. The correlation of states in case (b) with those for case (a) are:

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