

Jigsaw 4C

2D NMR: INADEQUATE

1. [From past exam] Below is a ^{13}C - ^{13}C INADEQUATE spectrum of the molecule shown. The INADEQUATE experiment correlates the shifts of directly bonded ^{13}C , such that the chemical shift on the y-axis corresponds to the sum of the two chemical shifts of the two correlated carbons. Peaks indicated with a (*) are artifacts and should not be considered in the analysis. Assign the unlabeled ^{13}C peaks using the INADEQUATE spectrum.

