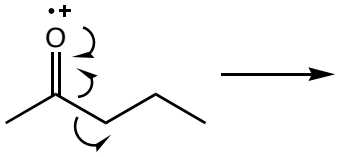
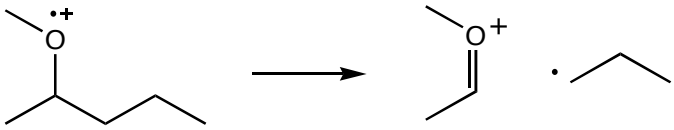
Name _____ Spring 2008
CHEM 0203 Quiz 3

1. a. Determine the products of the following fragmentation reaction,
   b. Circle the fragment that would be observed in the mass spectrum,
   c. Determine its mass to charge (m/z) ratio.

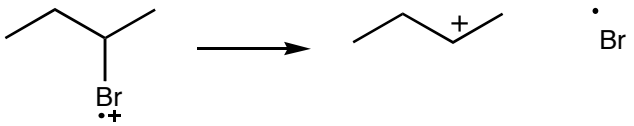


2. a. Label the following reactions as either a heterolytic or a homolytic cleavage reaction.
   b. Circle the fragmentation product that would be seen in the mass spectrum, and
   c. Calculate is mass to charge (m/z) ratio.

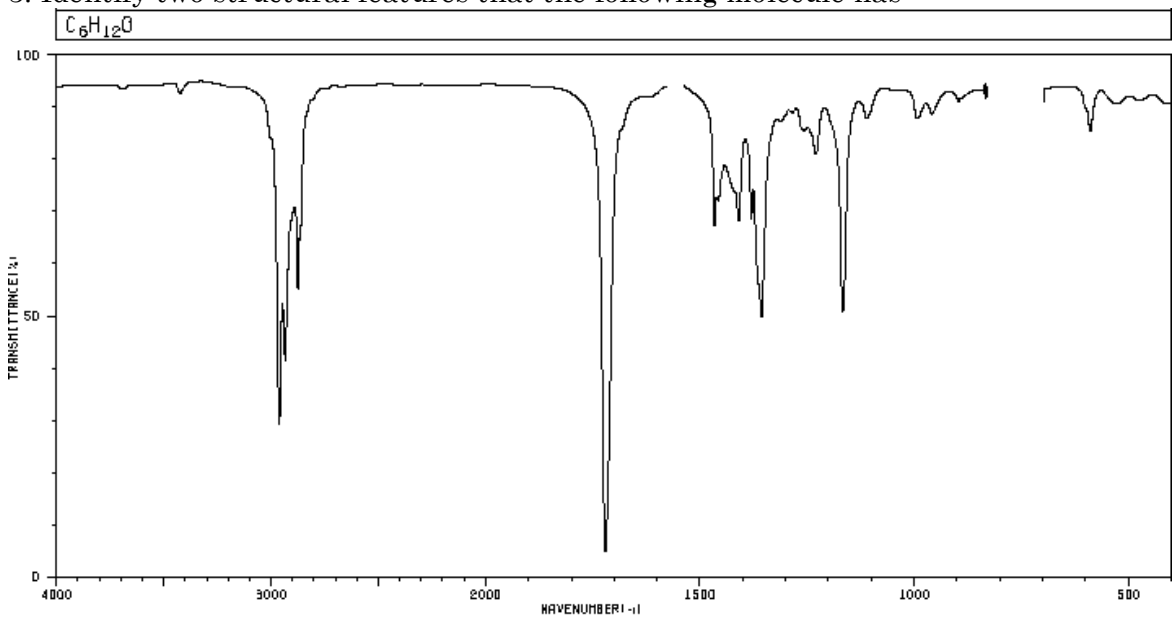
i.



ii.

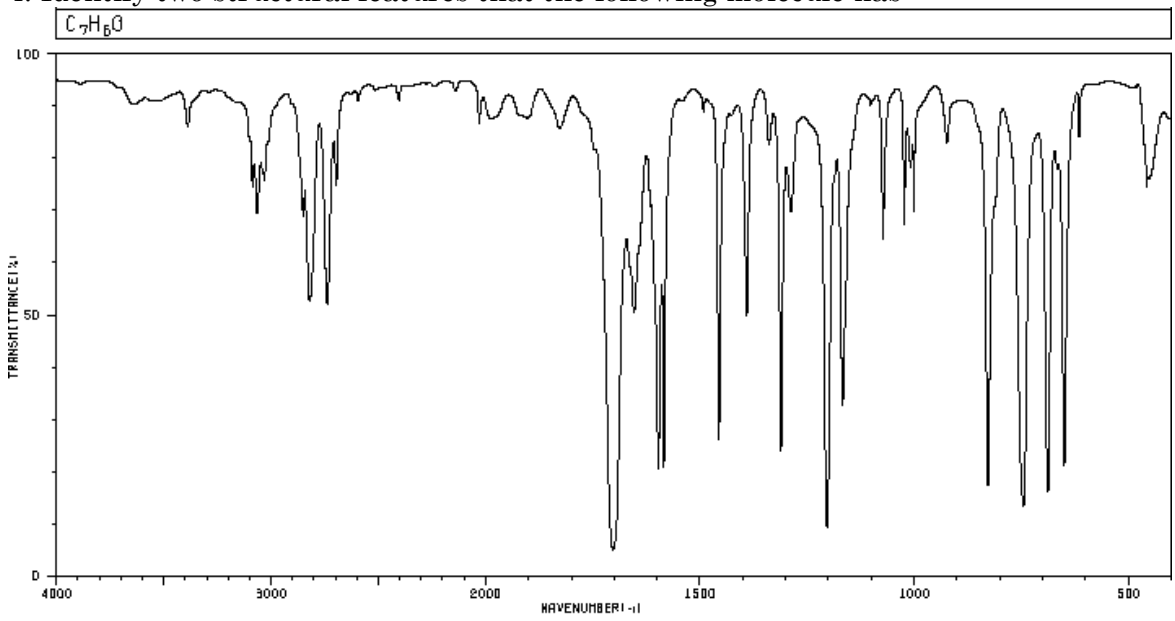


3. Identify two structural features that the following molecule has



2962	28	1466	64	1167	49						
2934	39	1457	70	1111	84						
2875	53	1420	70	994	84						
2865	62	1410	66	959	84						
1721	4	1380	66	602	86						
1557	95	1358	47	595	84						
1552	96	1230	77	589	81						

4. Identify two structural features that the following molecule has



3086	72	1981	84	1597	20	1204	8	828	16		
3065	66	1918	84	1584	20	1168	31	746	13		
3031	72	1909	84	1456	25	1073	62	686	15		
2850	66	1901	84	1391	47	1023	64	667	74		
2820	50	1828	81	1339	79	1008	74	650	20		
2736	50	1703	4	1311	23	1001	66	615	61		
2696	72	1664	49	1288	68	924	79	457	72		