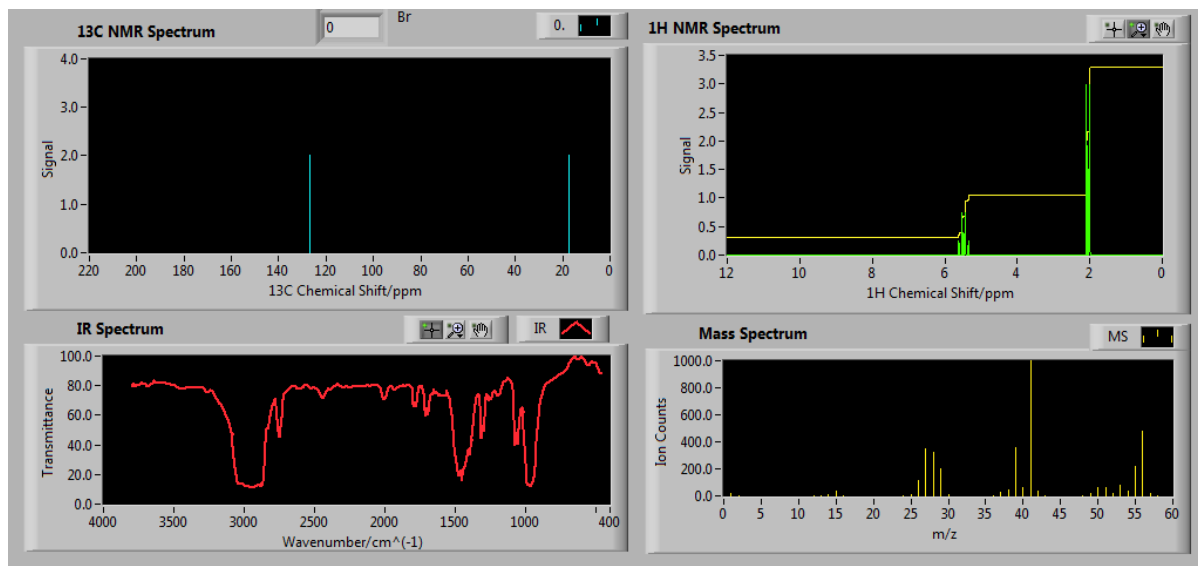


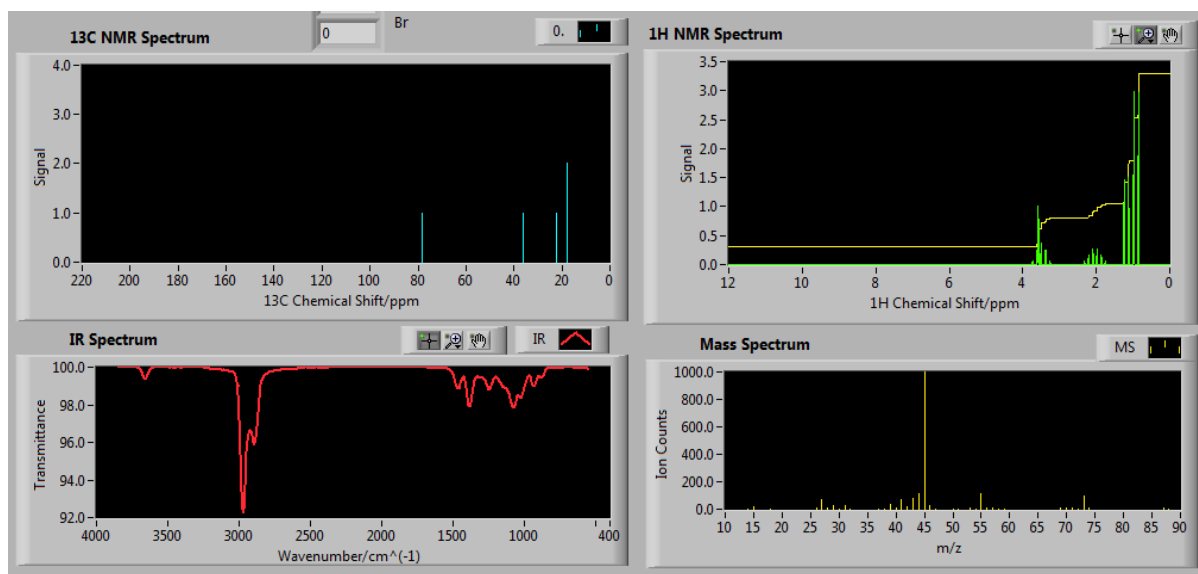
# SPECTROSCOPY – COMPOUND IDENTIFICATION (SOURCE: CHEMICAL DETECTIVES)

## TEST 2 (LEVEL = DIFFICULT)

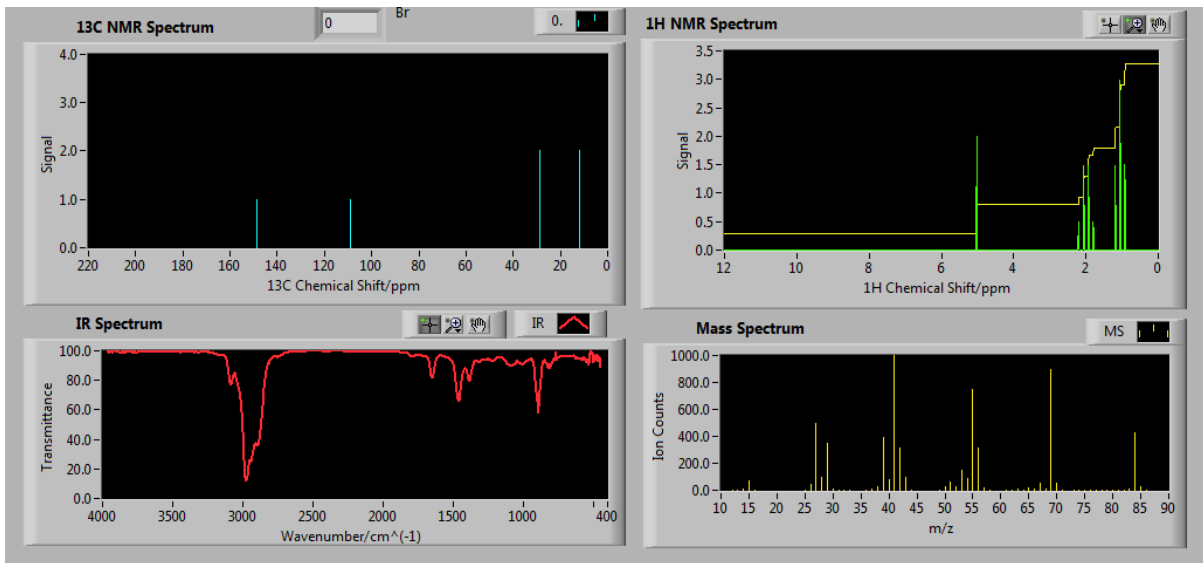
CHEMICAL NUMBER = 30



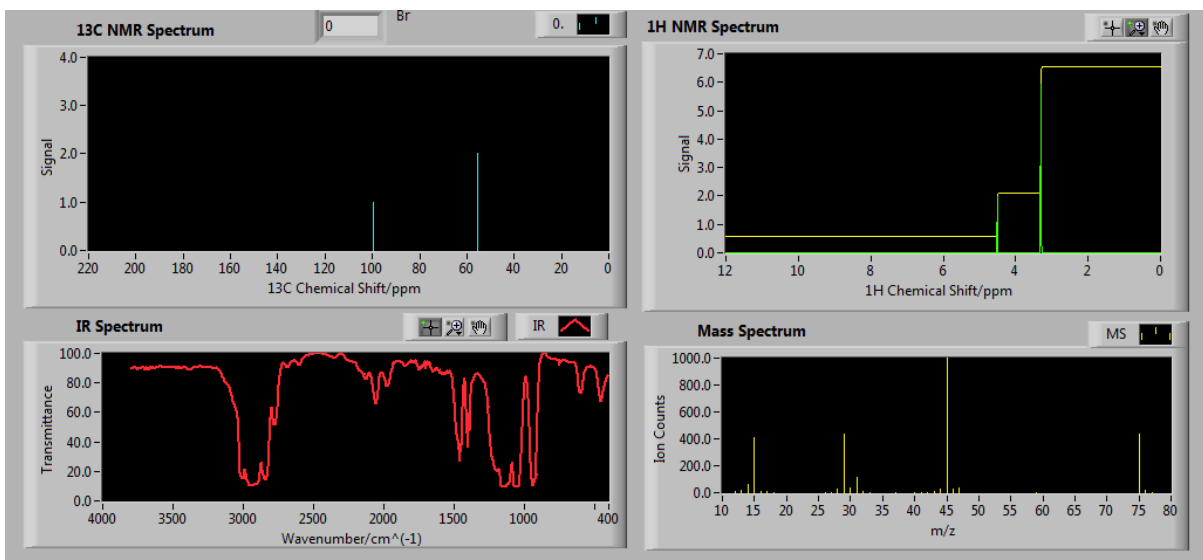
CHEMICAL NUMBER = 66



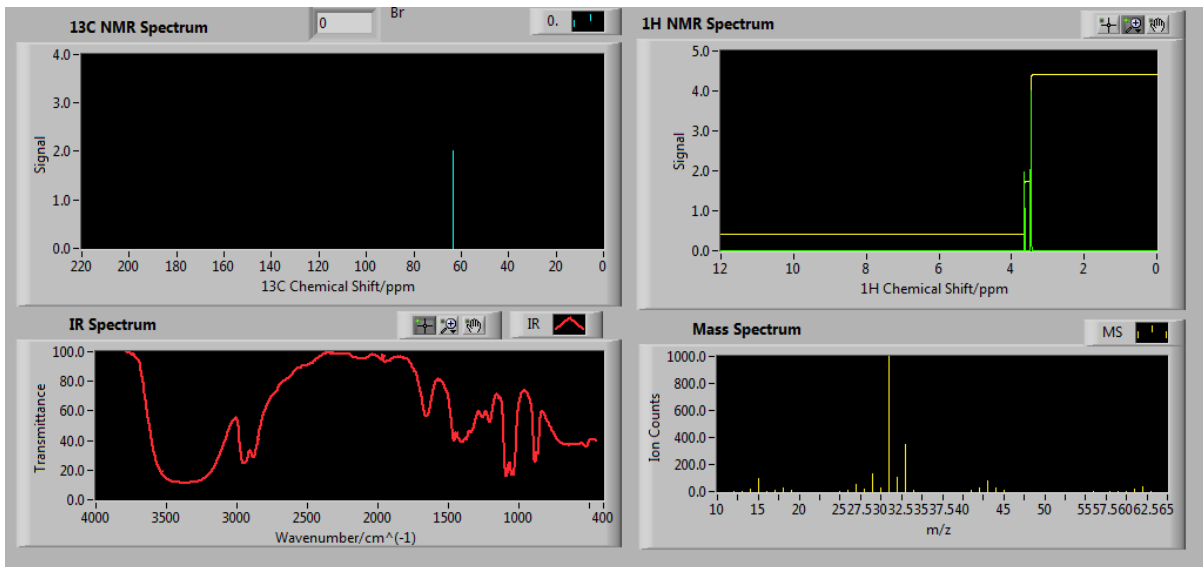
## CHEMICAL NUMBER = 15



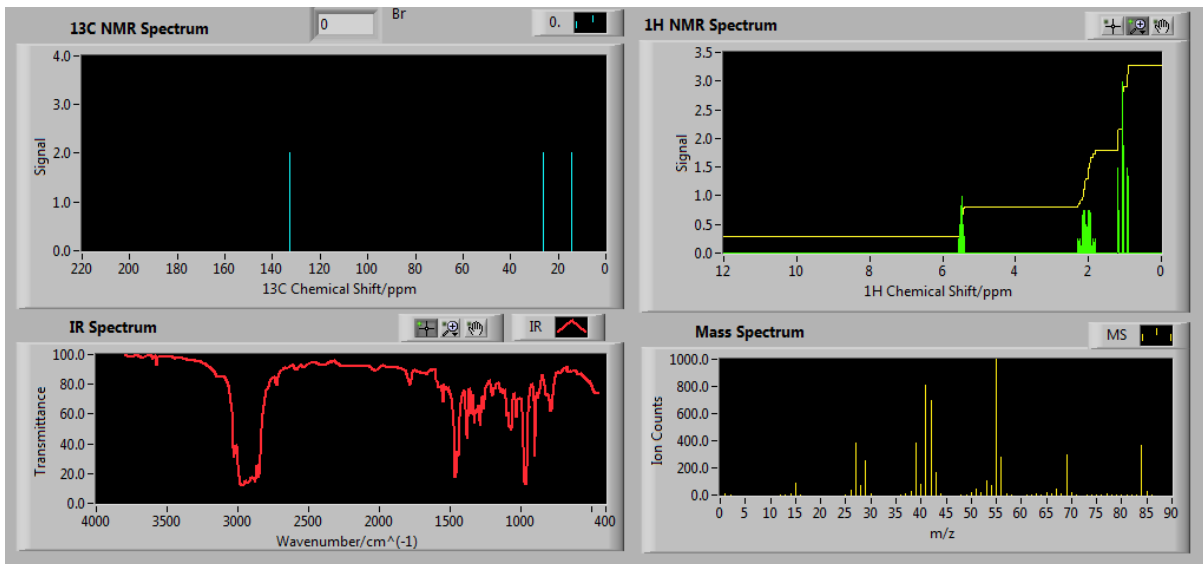
## CHEMICAL NUMBER = 35



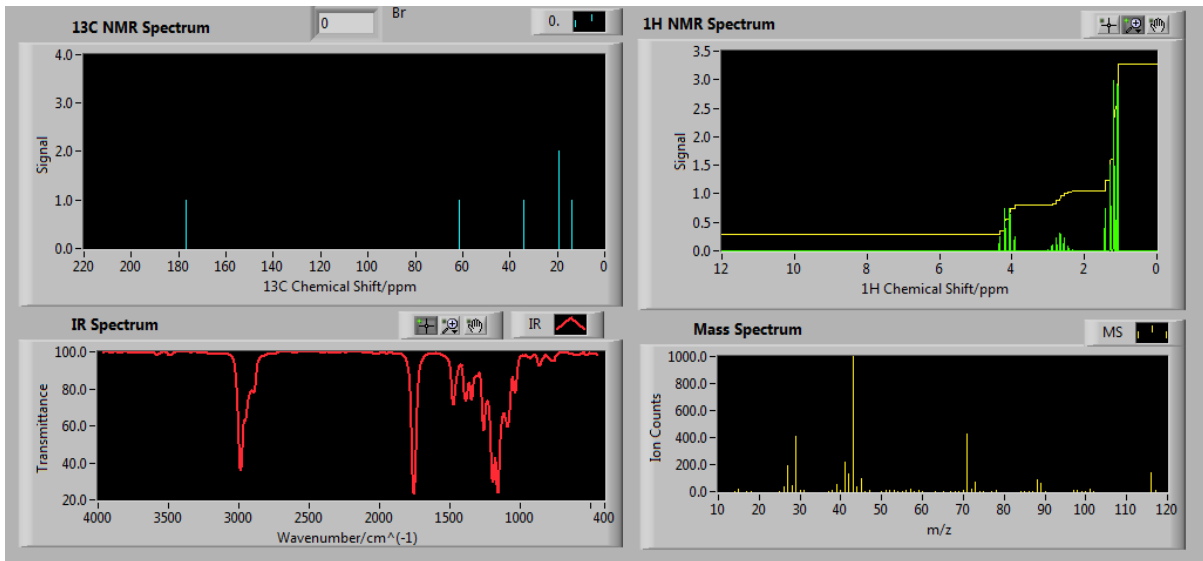
## CHEMICAL NUMBER = 58



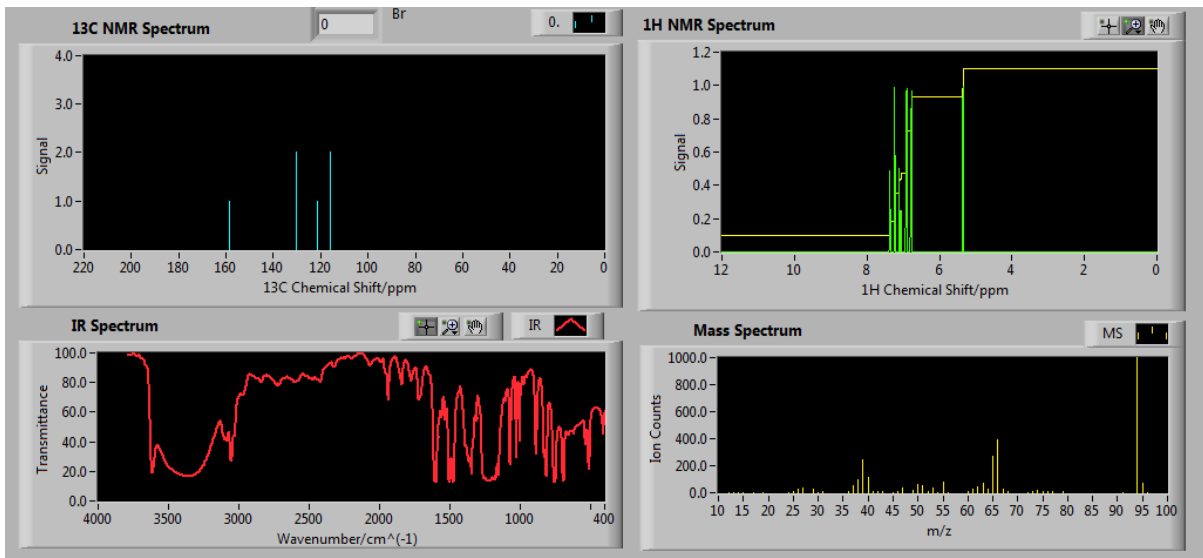
## CHEMICAL NUMBER = 41



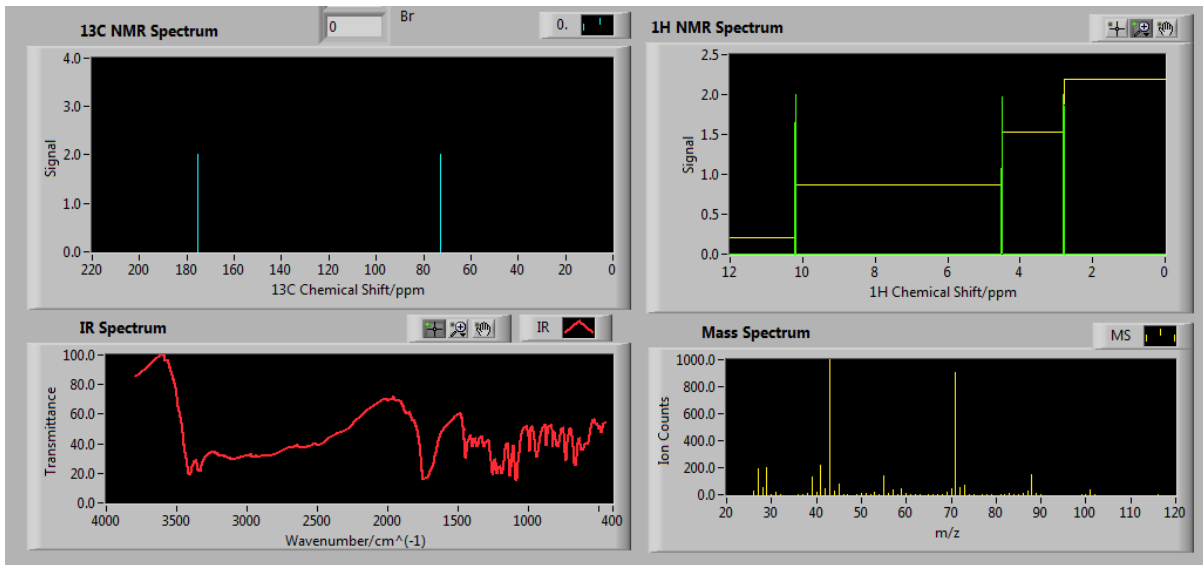
## CHEMICAL NUMBER = 80



## CHEMICAL NUMBER = 98


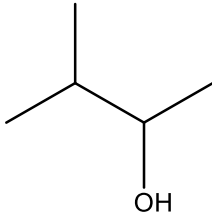
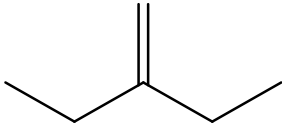
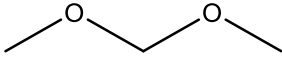
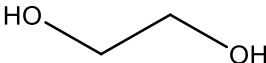

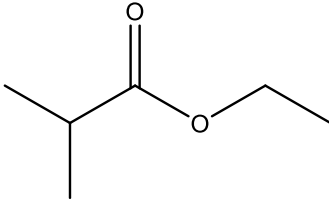
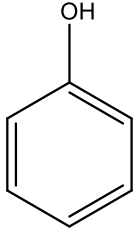


# CHEMICAL NUMBER = 11



## ANSWERS

\* Name not required at VCE level

Systematic Name	Chemical Number	Functional Group	Structure
but-2-ene	30	Hydrocarbon	
3-methylbutan-2-ol	66	Alcohol	
2-ethylbut-1-ene	15	Hydrocarbon	
dimethoxymethane	35	Ether	
1,2-ethandiol	58	Alcohol	
hex-3-ene	41	Hydrocarbon	
Ethyl 2-methylpropanoate	80	Ester	
Phenol	98	Alcohol	
2,3-dihydroxybutanedioic acid	11	Carboxylic acid	