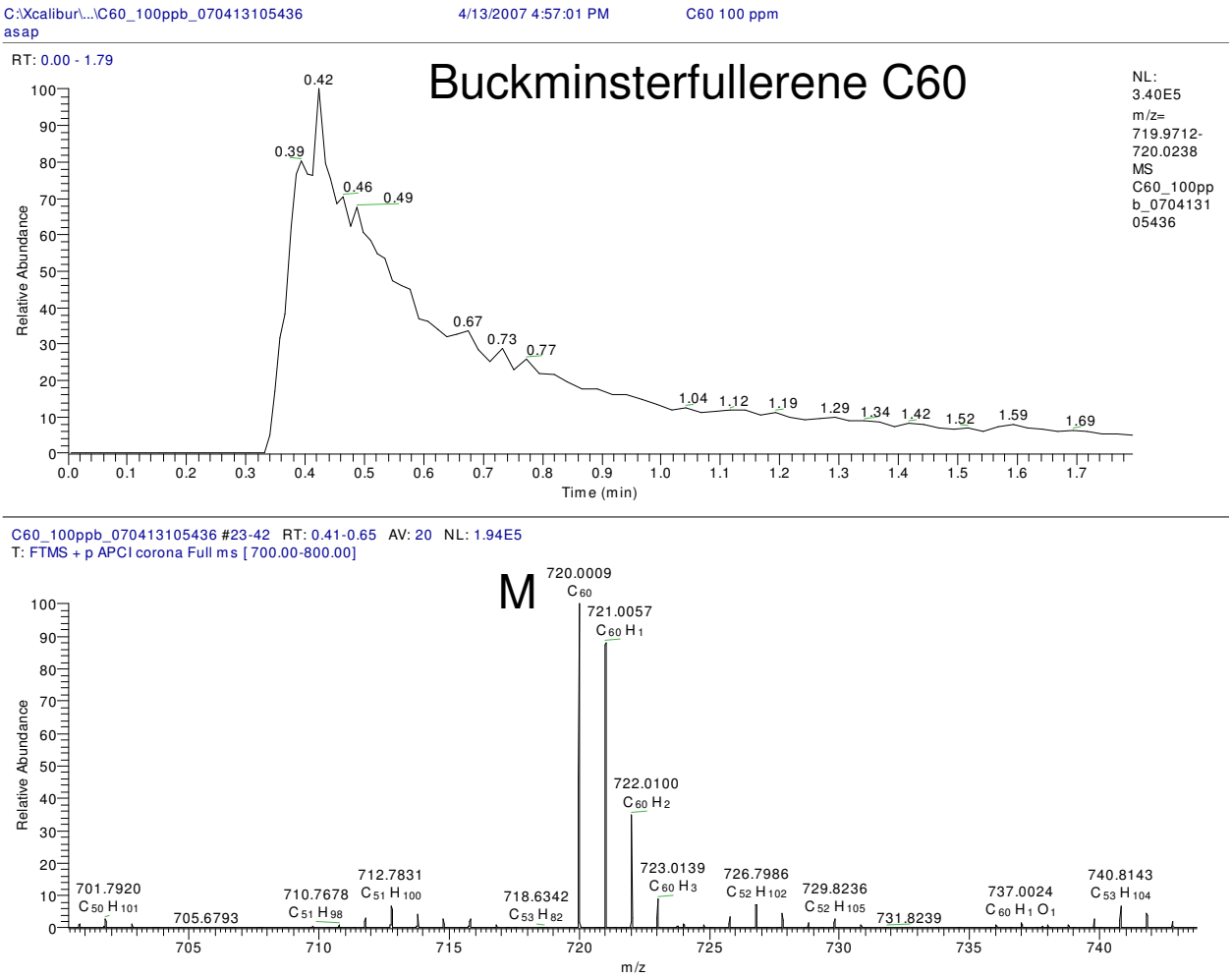
Analysis of Fullerene's using ASAP

Analysis of hydrocarbons is insensitive or even not possible using conventional ESI or APCI techniques due to the lack of proton affinity of these type molecules. In this example, Buckministerfullerene, commonly know as C60, could be easily analyzed by applying 450℃ heat from the gas stream of an APCI probe to a melting point tube containing 100 ppb of C60. The ASAP technique can be used to examine other types of certain derivatized fullerenes as long as the compounds can be vaporized. Lower molecular weight more volatile impurities can also be observed.



Analysis of 100 ppb C60

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