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February 13, 1969

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File

Gas Sample Valve for 5754 Gas Chromatograph

During the early stages of the MVC analysis program a heavy background contamination resulted in a very poor performance of the gas chromatograph. This contamination is caused by the O-Rings used as seals for the gas sampling valve. It was suggested by Hewlett and Packard to, therefore, exchange the silicone rubber O-Rings for a more inert type of O-Ring. The rings were ordered and installed.

In response to my letter from January 20, 1969, Mr. Howard W. Volin from Hewlett and Packard visited this morning, at which time the performance of the new O-Rings was checked. The result again was a heavy background indicating that the new O-Rings also have a slow bleed after being exposed to a MVC sample. Mr. Volin suggested it might be practical to check out the available valving arrangements at the Avondale Laboratories of Hewlett and Packard by taking one of our columns and a sample to Avondale and check the other type of gas sample valve available and installed on the gas chromatographs in use at Hewlett and Packard in Avondale.

The use of the gas sample valve becomes rather important once the MVC analysis will be done on a routine basis since the gas sample valve has a "Guaranteed" volume inject.

A tentative date for the trip has been set for February 24, 1969.

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F. W. Kanzler

FWK/rjl