

3M Occupational Health and
Environmental Safety Division

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October 16, 1992

3M

Mark Puskar
Abbott Laboratories, D-38A
1401 Sheridan Rd
North Chicago, IL 60064

Dear Mark:

I want to apologize for the delay in responding to your methylene chloride study. We would like to participate in the study, however it should be noted that our 3M 3520 Organic Vapor Monitor has limitations.

The monitor has a maximum capacity of 3000 micrograms at high relative humidities (i.e., >60%). This capacity will increase as relative humidity drops. Based on a capacity of 3000 micrograms, the maximum concentration measurements are as follows:

15 minutes:	1518 ppm
240 minutes:	120 ppm
480 minutes:	60 ppm

Based on this information we recommend that sampling be limited to four hours when methylene chloride concentrations are unknown. However, if concentrations are expected to be at the TLV (50 ppm) or below, the use of the 3520 monitor is acceptable.

The validation study that Abbott outlined calls for a sampling site that is greater than 50 ppm methylene chloride. If an 8 hour sample was collected at this location, it is feasible that the capacity of the monitor may be exceeded. This sampling site pushes the limitation of the monitor. However, all of the other sampling sites, including the sampling times, fall within the limitations of the 3M 3520 monitor. We would like to participate in the study, however, we want to caution you that our 3M 3520 monitor cannot be used in all situations, just like most other sampling devices.



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Per our discussion, we have spiked organic vapor monitors with methylene chloride. We have four sets with triplicates in each set. The methylene chloride concentrations are as follows:

Set A:	1330 microgram
Set B:	265 microgram
Set C:	530 microgram
Set D:	2650 micrograms
Set F:	Blanks

If you have any questions, please feel free to give me a call at 612-737-4459. I look forward to working with you and Abbott in the future.

Regards,



Robert A. Weber, CIH
Technical Service Representative
3M Occupational Health & Environmental Safety Division

RAW:11j/54
Enclosure

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