PMF Results Southwest High School

Data

- 20 Species included
- Uncertainties based on duplicate measurements
- Propionaldehyde, butyraldehyde, and acetone excluded

Parameter	Percent Uncertainty
1,2,4-Trimethylbenzene	24%
1,3,5-Trimethylbenzene	5%
1,3-Butadiene	22%
2,2,4-Trimethylpentane	17%
Acetaldehyde	20%
Acetone	20%
Acetonitrile	14%
Benzene	18%
Butyraldehyde	20%
Chloromethane	12%
Dichlorodifluoromethane	16%
Dichloromethane	20%
Ethylbenzene	18%
Formaldehyde	20%
Freon 113	27%
M/P Xylene	22%
Methyl Ethyl Ketone	22%
N-Hexane	25%
O-Xylene	21%
Propionaldehyde	20%
Tetrachloroethylene	15%
Toluene	16%
Trichlorofluoromethane	13%

















Summary

- PMF was successfully performed on a gaseous air toxics data set at Southwest High School
- Four factors were resolved
- No significant trends in annual concentrations were seen
- Contributions from the secondary formation factor were significantly higher in the summer, due to increased photochemistry
- No significant day of week differences were observed
- The usefulness of this analysis could be expanded, and more factors potentially identified, with additional species/samples