NASA needs technology for ISS
which will allow it to monitor in near-real-time at least
90% of the priority 1 compounds,
80% of the priority 2 compounds, and
70% of the priority 3 compounds listed below
in the atmosphere at the detection limits listed.

Compounds	Concentrations
Priority 1 Chemicals:	
1-Butanol	0.5 ppm
Acetaldehyde	0.1 ppm
Acetone	1 ppm
Ammonia	1 ppm
Benzene	0.01 ppm
Dichloromethane	0.03 ppm
Ethanol	10 ppm
Formaldehyde	0.01 ppm
Methanol	0.2 ppm
Octamethylcyclotetrasiloxane	0.05 ppm
Propylene glycol	0.5 ppm
Toluene	1 ppm
Priority 2 Chemicals:	
2-Ethoxyethanol	0.1 ppm
2-Propanol	3 ppm
Acrolein	0.01 ppm
C3-C8 aliphatic sat. aldehyde	0.1 ppm
C5-C7 Alkanes	2 ppm
Decamethylcyclopentasiloxane	0.1 ppm
Ethyl acetate	1 ppm
Ethyl benzene	1 ppm
Ethylene (plants)	0.05 ppm
Freon 113	2 ppm
Furan	0.01 ppm
Hexamethylcyclotrisiloxane	0.1 ppm
Perfluoropropane	10 ppm
Xylenes	2 ppm
Priority 3 Chemicals:	
1,2-dichloroethane	0.01 ppm
2-Butanone	0.5 ppm
4-Methyl-2-pentanone	2 ppm
Alkyl amines	0.5 ppm
Carbonyl Sulfide	0.01 ppm
Chloroform	0.02 ppm
Diacetone Alcohol	0.2 ppm
Freon 11	2 ppm
Freon 12	2 ppm
Isoprene	0.05 ppm
Limonene	1 ppm
Trimethylsilanol	0.5 ppm
Vinyl Chloride	0.05 ppm