

## Environmental Gases Applicable for Raman Scattering Analysis

Scattering X-section  
Relative to N<sub>2</sub>

<u>Compound</u>	<u>Raman Shift (cm<sup>-1</sup>)</u>	<u>Scattering X-section Relative to N<sub>2</sub></u>
Cl <sub>2</sub>	550	2.5
Fl <sub>2</sub>	893	1.5
SO <sub>2</sub>	1151	5
(CH <sub>2</sub> ) <sub>2</sub> O ETO	1266	4
Br <sub>2</sub>	1300	6.0
NO <sub>2</sub>	1320	1
SO <sub>3</sub>	1330	5
CO <sub>2</sub>	1388	1.4
CH <sub>4</sub>	1535	6
O <sub>2</sub>	1555	1.3
NO	1877	0.4
CO	2143	1
N <sub>2</sub>	2331	1
H <sub>2</sub> S	2611	6.4
HCL	2886	3.2
Total Hydrocarbons	2950-3200	6
NH <sub>3</sub>	3334	5
H <sub>2</sub>	4156	2.4