

# Readme File for NIES PTR-MS Data @Fukue ver1.0

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Instrument: PTR-MS (IONICOM, S/N 05/11)

Operation: Temperature 105 °C (drift tube)  
(inlet 105 °C)

Pressure 2.1 mbar (drift tube)

E/N ratio 108 Td ( $U_{\text{drift}} = 400 \text{ V}$ )

Mode scan mode ( $m/z$  17-180, 0.2 s/amu)

Cycle : 00:00 ~03:45 ambient air  
03:45~ 04:00 zero-air (Thermo, Model 111)  
04:00~07:45 ambient air  
08:00~11:45 zero-air  
12:00~15:45 ambient air  
16:00~19:45 zero-air  
20:00~23:30 ambient air  
22:30~23:45 standard gas (diluted into 10 ppbv)  
23:45~24:00 zero-air

Standard gas: 7-VOC mixture  
(propene, acetaldehyde, acetone, isoprene, benzene, toluene, p-xylene, 5 ppmv)

Concentrations: 15-min averaged, calibrated or calculated (ppbv).  
Calculated: Sensitivity = 9.1 (ncps/ppbv)

## Averaged PTR Mass Spectrum (01 May 09 – 06 June 09)

