

sPMA VSF Spectral Fitting Parameters and Errors

| Peak Center<br>(Error) cm <sup>-1</sup> | Amplitude<br>(Error) | Phase | Lorentzian<br>Width cm <sup>-1</sup> | Gaussian<br>Width (Error)<br>cm <sup>-1</sup> |
|-----------------------------------------|----------------------|-------|--------------------------------------|-----------------------------------------------|
| 1728.57<br>(±0.64)                      | 2.617 (0.051)        | 0     | 5                                    | 15.64 (0.64)                                  |
| 1785.72<br>(±1.77)                      | 1.083 (0.098)        | 3.14  | 5                                    | 15.0 (2.4)                                    |
| 2526.88<br>(±1.12)                      | 1.561 (0.028)        | 3.14  | 5                                    | 134.0 (5.1)                                   |
| 2885.63<br>(±0.86)                      | 1.597 (0.078)        | 0     | 2                                    | 23.7 (1.8)                                    |
| 2929.61<br>(±0.67)                      | 5.19 (0.14)          | 0     | 2                                    | 21.0 (0.58)                                   |
| 2933.85<br>(±0.14)                      | 2.01 (0.14)          | 0     | 2                                    | 5.27 (0.74)                                   |
| 2978.85<br>(±0.55)                      | 1.42 (0.13)          | 3.14  | 2                                    | 79.2 (1.1)                                    |
| 3069.17<br>(±1.64)                      | 1.135 (0.056)        | 0     | 5                                    | 162.3 (3.9)                                   |

iPMA VSF Spectral Fitting Parameters and Errors

| Peak Center<br>(Error) cm <sup>-1</sup> | Amplitude<br>(Error) | Phase | Lorentzian<br>Width cm <sup>-1</sup> | Gaussian<br>Width (Error)<br>cm <sup>-1</sup> |
|-----------------------------------------|----------------------|-------|--------------------------------------|-----------------------------------------------|
| 1728.57<br>(±0.64)                      | 2.602 (0.058)        | 0     | 5                                    | 14.10 (0.61)                                  |
| 1785.72<br>(±1.77)                      | 1.298 (0.050)        | 3.14  | 5                                    | 27.9 (2.5)                                    |
| 2526.88<br>(±1.12)                      | 2.700 (0.020)        | 3.14  | 5                                    | 124.7 (1.6)                                   |
| 2885.63<br>(±0.86)                      | 1.85 (0.16)          | 0     | 2                                    | 17.85 (0.88)                                  |
| 2929.61<br>(±0.67)                      | 5.42 (0.32)          | 0     | 2                                    | 29.7 (1.7)                                    |
| 2933.85<br>(±0.14)                      | 3.35 (0.31)          | 0     | 2                                    | 11.10 (0.55)                                  |
| 2978.85<br>(±0.55)                      | 0.019 (0.11)         | 3.14  | 2                                    | 27.3 (172.3)                                  |
| 3069.17<br>(±1.64)                      | 1.229 (0.035)        | 0     | 5                                    | 158.5 (2.4)                                   |