



Chiappalone Consulting

PROVIDING SOLUTIONS TO COMPLEX PROBLEMS GLOBALLY – EPAC ONLINE DATA ANALYSIS SERVICES



Chiappalone Consulting offers Extractive Plume Analysis and Computing (EPAC) services for real-time spectral analysis and validation

EPAC is a cloud based service used to perform analysis of spectra from either open path or extractive instruments. The analysis method is optimised to your application and provides real-time analysis and spectral validation solutions with no false positives. It can be used as either the primary analysis tool or as an independent confirmatory procedure.

EPAC Engine:

- Local instrument collects sample spectra
- Collected spectra are sent to a cloud based server
- Proprietary algorithms analyse spectra and perform real-time spectral validation
- Spectral validations and results are securely returned to the client
- 3-10 times improvement on method detection limits – compared to instrument vendor software
- Computerised QA/QC, no false positives

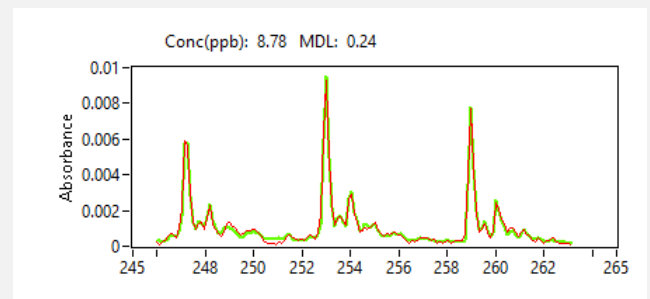
Reporting Package:

- A reporting package can be supplied to save all data and spectral validations
- Data can be further statistically analysed and reports generated to client requirements
- Spectral validations can be visualized

Applications:

- Third Party QA/QC
- Fenceline monitoring: meets BAAQMD Regulation 12 Rule 15 requirements
- Leak detection programs
- Area source fugitive emission studies

Example UVDOAS Spectral Validation: Open Path Benzene 500m



Green Spectrum: Reference

Red Spectrum: Sample



Contact:
Carmelo Chiappalone
PO Box 93, Ivanhoe,
Victoria 3079, Australia
T: + 61 412 194 825
E: carmelo@cconsulting.net.au