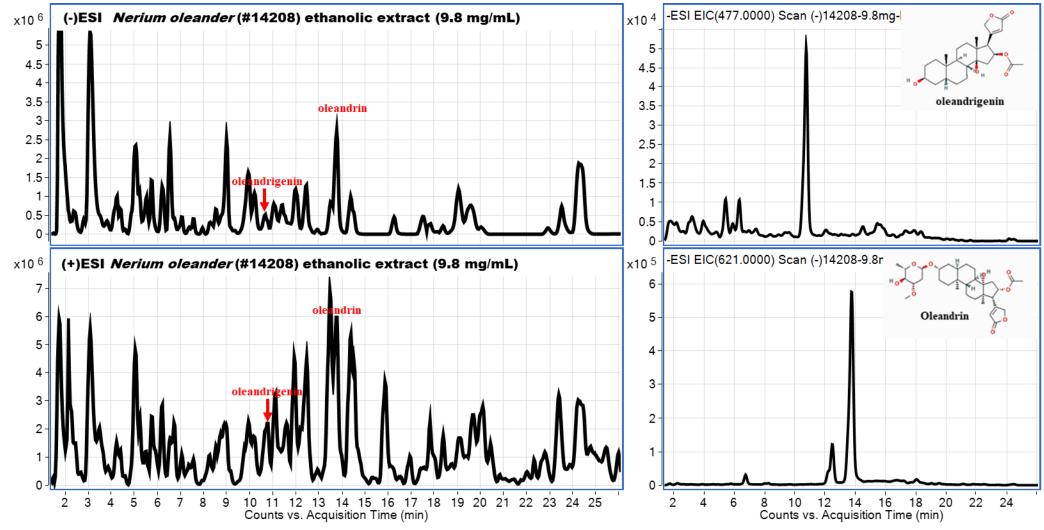
## **Chemical Analysis using LC-QToF**

## **Plant Details:**

NCNPR#	Accepted name	Family	Part	Collected by	TAXID (UoM)	Locality
13901	Nerium oleander L.	Apocynaceae	Stem	МОВОТ	TAX0046063	Peru, South America

## Nerium oleander

- Oleander (*Nerium oleander*) is an evergreen shrub native of Southern Europe belonging to the Apocynaceae family. It is a highly toxic plant since all parts, whether fresh or dried, are poisonous as they contain several cardiac glycosides, referred to as cardenolides (**oleandrin**, C<sub>32</sub>H<sub>48</sub>O<sub>9</sub>*m/z* 621.3280 [M+COOH] and **oleandrigenin** C<sub>25</sub>H<sub>36</sub>O<sub>6</sub>*m/z* 477.2494 [M+COOH] , and other active principles. Oleandrin detection is routinely used as a diagnostic tool in the case of poisoning [1].
- Tentative identification of these **TWO compounds** is based on accurate mass analysis (LC-QToF).



[1] Gosetti, F., Nebbia, C., Ceci, L., Carelli, G. and Marengo, E., 2019. UHPLC-MS/MS determination of oleandrin in blood and tissues of dairy cattle poisoned by oleander (Nerium oleander). Analytical Methods, 11(43), pp.5562-5567.