Package 'q3ML'

September 16, 2021

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Type Package
Title Open and Parse SRM mzML files from Thermo Triple Quadruploe Mass Spectrometers
Version 0.1.0
Description More about what it does (maybe more than one line) Use four spaces when indenting paragraphs within the Description.
License GPL (>= 3)
Encoding UTF-8
LazyData true
Depends magrittr
Imports xml2, dplyr, tidyr, purrr, tibble, stringr, base64enc, crayon, cli
RoxygenNote 7.1.1
Suggests covr, testthat (>= 3.0.0), mzR
Config/testthat/edition 3
Roxygen $list(markdown = TRUE)$
R topics documented:
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idRefs

decodePeaks

Decode peaks

Description

Decode a binaryDataArray into a vector of either time or intensity

Usage

```
decodePeaks(x, compression = "none", size)
```

Arguments

x a base64 encoded vector

compression compression type (default = "none")

size a numeric value for the number of bytes per element in the byte stream

Value

a numeric vector

idRefs

Extract mzML idRefs

Description

Extract all the idRefs in the specified mzML file. The idRefs will correspond to the individual scan events.

Usage

```
idRefs(xmlDoc)
```

Arguments

xmlDoc

a xml document

Value

a character vector of all available idRefs

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Examples

openFile

Open .mzML File

Description

Open and parse a .mzML file containing Selective Reaction Monitoring (SRM) Mass Spectrometry (MS) data using xml2

Usage

```
openFile(mzml_file)
```

Arguments

mzml_file

the absolute file path of a valid .mzML file

Value

a list of two elements containing peaks and header

parseChromNode

Parse the XML nodeset of a SRM chromatogram

Description

Parse the XML nodeset of a SRM chromatogram

Usage

```
parseChromNode(x, mode)
```

Arguments

```
x a xml2 nodeset for a Chromatogram block
```

mode a character of either SRM or TIC

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Value

- a list of two elements
 - time
 - **-** attributes
 - raw
 - intensity
 - attributes
 - raw

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