

## Understanding RaDAR Results

*The following information provides an overview of the contents of the columns used in the RaDAR reporting documents. Column headers are shown in bold text.*

- **Reviewed:** An “X” indicates the results are ready to report and have been internally reviewed at NIST.
- **NIST\_ID:** Barcode number from the coin envelope the sample was received in.
- **Site\_ID:** If additional sample identifiers are written on the barcoded coin envelope they will be provided here. If not, the cell will be blank.
- **Wipe\_Swab:** Sampling material substrate received (e.g., wipe, swab, and/or plunger).
- **Item:** Item sampled (i.e., paraphernalia) as noted on the barcoded coin envelope. We use a preset list of options in this field, so the most related one will be chosen. If the item does not fit into one of the options, “Other” will be selected and additional information will be provided in the “Notes” column. If no information is provided, “Unknown” will be selected.
- **Agency:** An abbreviation of the overarching agency the site falls under.
- **Site:** Name (sometimes abbreviated) of the specific site submitting a sample.
- **Collection\_Date:** The date sample was collected, if provided on the barcoded coin envelope. If no date is provided, this cell will be left blank.
- **Run\_Date:** The date the sample was prepared and analyzed at NIST.
- **Compound\_#:** Compounds identified by DART-MS analysis.
  - **Note:** Compounds are listed in alphabetical order as of March 1<sup>st</sup>, 2024.
  - **Note:** Results are strictly qualitative. Quantitative analyses, including major and minor delineation, are not reported.
- **Other relevant information:** List of compounds detected below the reporting threshold. Compounds will be preceded by “BT” to denote below threshold.
  - **Note:** Below threshold compounds may or may not be from the actual sample. Low abundance compounds may be from background or cross-contamination.
- **Confirmation Rule Outs:** Notation of any additional testing that needs to be completed or has been completed. The following three cell colors and abbreviations provide insight into testing status and results.
  - **Yellow cell with “CP”:** Additional testing is pending to determine if the listed compound is present in the sample.
  - **Purple cell with “CC”:** Additional testing is completed, and the compound was confirmed to be in the sample. The compound will also be added to the “Compound\_#” columns.
  - **Purple cell with “RO”:** Additional testing is completed, and the compound was unable to be confirmed in the sample.
  - **Note:** Additional testing may take days to weeks depending on the availability of standards.
- **Notes:** Any additional information noted on the barcoded coin envelope including paraphernalia description, site-specific information, or other information that does not fall within the previous columns will be copied here. If no additional information is written on the envelope, this cell will be blank.