Outline of scripts were used to prepare the EPA Phase 1 Network Formation Assay data for NTP

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Purpose | Main script | Scripts containing functions that are called by main script |
| 1 | Compile and prepare a preliminary version of the data, based on the initial run of every compound. | Preliminary\_DNT\_NTP2021\_run\_me\_2022-05-17.R | burst\_parameter\_to\_AUC.R  create\_burst\_ont\_Data.R  create\_ont\_csv.R  cytotox\_prep06.R  dataset\_checks.R  DIV-interpolation-functions.R  estimate\_missing\_DIV.R  gather\_files\_functions.R  h5\_conversion.R  local.corr.all.ont.ae.filter.R  MI\_script\_all.R  nmi\_wrapper.R  nmi2\_final.R  source\_steps.R  spike\_list\_functions.R  spikeLoadRoutines.R  tcpl\_MEA\_dev\_AUC.R |
| 2.1 | Determine which samples need to be repeated - calculate response values and cutoffs. | apply\_in\_house\_tcpl-like\_processing\_2022-05-26.R |  |
| 2.2 | Determine which samples need to be repeated - estimate dose-response curves. | DNT\_NTP2021\_run\_tcplfit2\_2022-05-26.R | diy\_tcplfit2\_functions\_2022-05-12.R |
| 2.3 | Determine which samples need to be repeated - tabulate results and apply criteria. | DNT\_NTP2021\_create\_table\_of\_samples\_to\_rescreen\_2022-05-26.R |  |
| 3 | Update well quality for noisy data identified in step 2 and add additional wllq\_notes from lab notebook. | update\_wllq\_table\_for\_original\_runs\_of\_repeated\_samples\_to\_exclude\_2022-07-11.R |  |
| 4 | Compile and prepare finalized version of data (after selected chemicals have been rescreened), including mapping the DNT\_blind\_code and finalizing the well quality. | run\_me\_DNT\_NTP2021.R | burst\_parameter\_to\_AUC.R  create\_burst\_ont\_Data.R  create\_ont\_csv.R  cytotox\_prep06.R  dataset\_checks.R  DIV-interpolation-functions.R  estimate\_missing\_DIV.R  gather\_files\_functions.R  h5\_conversion.R  local.corr.all.ont.ae.filter.R  MI\_script\_all.R  nmi\_wrapper.R  nmi2\_final.R  source\_steps.R  spike\_list\_functions.R  spikeLoadRoutines.R  tcpl\_MEA\_dev\_AUC.R |
| 5.1 | Check for additional samples which may need to be repeated - calculate response values and cutoffs. | apply\_in\_house\_tcpl-like\_processing\_2022-08-01.R |  |
| 5.2 | Check for additional samples which may need to be repeated - estimate dose-response curves. | DNT\_NTP2021\_run\_tcplfit2\_2022-08-01.R | diy\_tcplfit2\_functions\_2022-05-12.R |
| 5.3 | Check for additional samples which may need to be repeated - tabulate results and apply criteria. | DNT\_NTP2021\_create\_table\_of\_samples\_to\_rescreen\_2022-08-01.R |  |
| 6 | Format data for NTP | prepare\_DNT\_NTP2021\_MEA\_NFA\_2022-08-01.R |  |