Notes for ACS Chem revision and Matlab analysis code

Extract CONCs and associated files

1. Determine whether CB9 chemometrics was used and whether individual electrode calibrations exist for each rat.
2. If not (most likely) make CV and CONC matrices from cocaine files – place all files required for these in their own folder and use CV Matrix

Assemble data files in understandable data structure

Put raw data and snips into rat folders – include readme file with origin of data

Describe extraction of snips and conversion to concentration

Get appropriate behavioural files into new directory structure

Use allpvi and work out from here

1. Start new script that assumes all is in allpvi already

Scripts required:

CVMatrix

getcols

main.m

pvicols.m

nanmean.m

extractdata.m

noiseQa.m

trials.m

unpacked.m

voltdata\_history.m (to combine with main)

lineplot\_pvi.m

voltanalysis\_pvi.m

to make figures in publication

pvi\_reptraces\_PVI08.m

shadedErrorBar.m

for stats…

pvi\_avg\_stats

use new epochs to do stats in spss and remake bar graphs

TTLs

Use CV\_BatchCutandSplice to make

|  |  |
| --- | --- |
| Bit | TTL / Event |
| 0 | Cue (pellet trials) |
| 1 | Pellet (cued trials) |
| 2 | Nose poke |
| 3 | Cue (infusion trials) |
| 4 | Infusion (cued trials) |
| 5 | Pellet (uncued trials) |
| 6 | Infusion (uncued trials) |
| 7 | Dummy solenoid click |