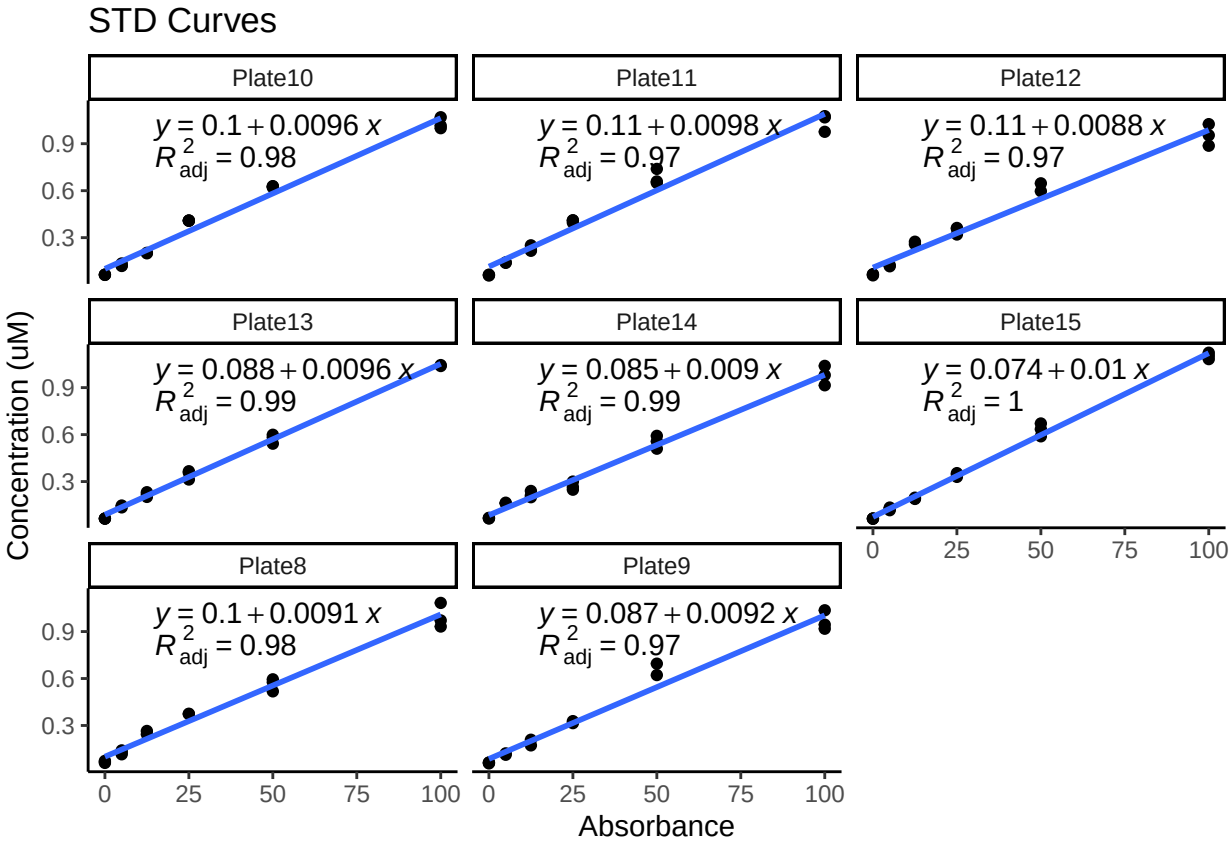
TEMPEST: Porewater Sulfide

2025 Samples

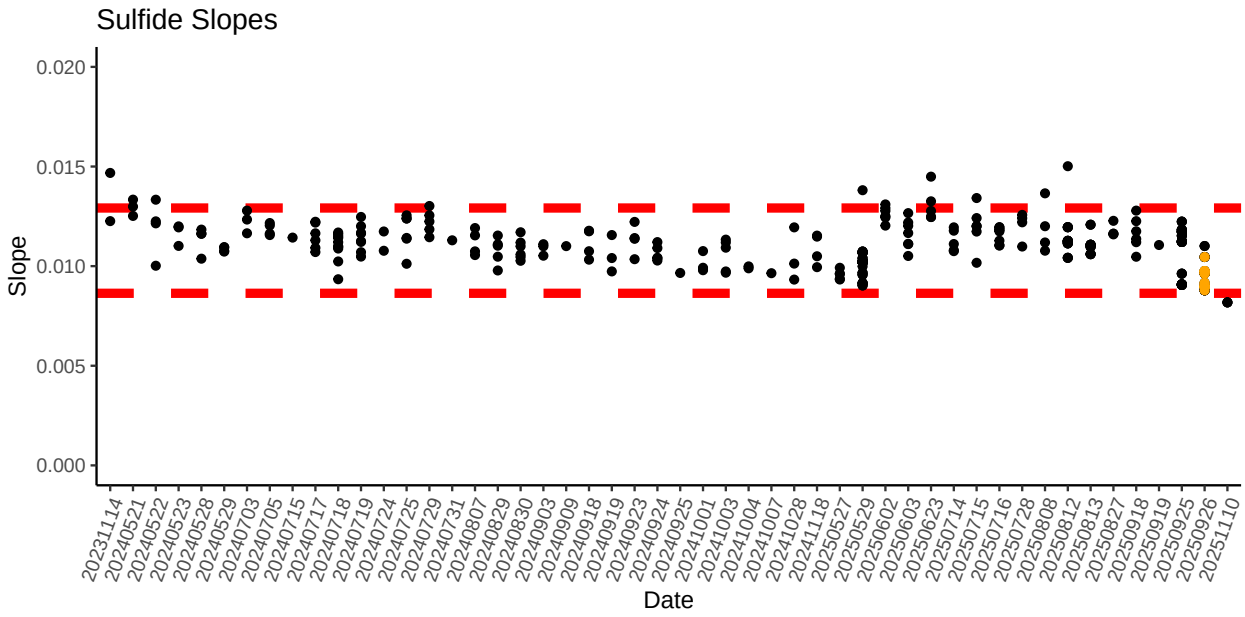
2025-12-10

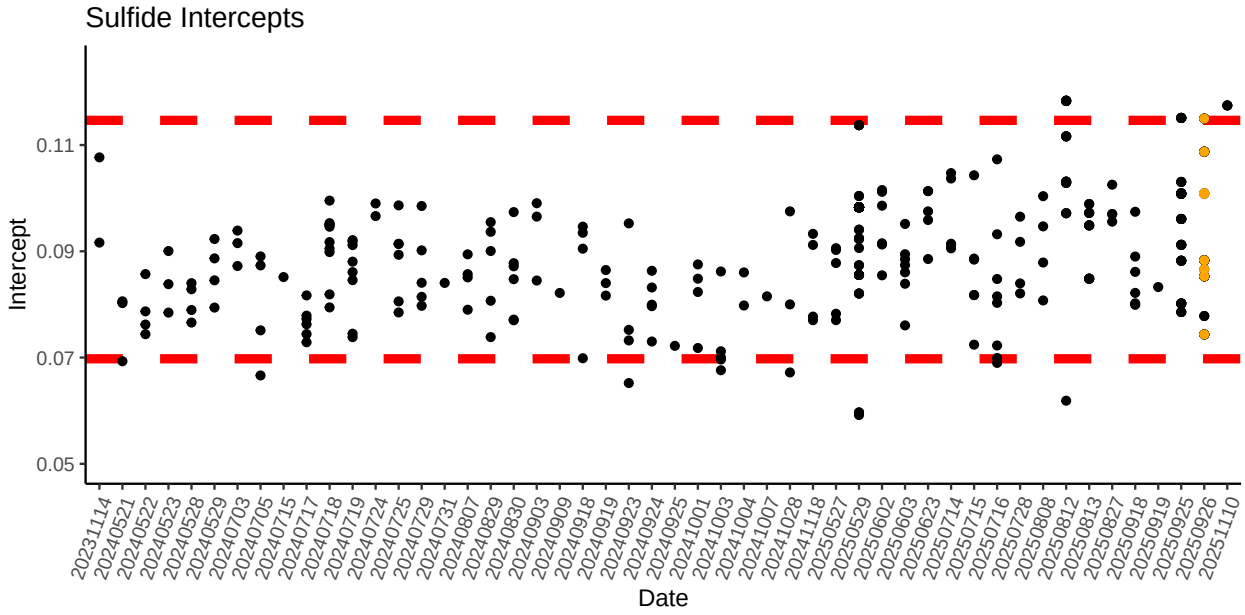
Run Information

```
###things that need to be changed
Date_Run = "20250926"
plates<- c("Plate8","Plate9","Plate10","Plate11","Plate12","Plate13","Plate14","Plate15")
Month = "Sept"
Year = "2025"
Run_by = "Zoe Read"  #Instrument user
Script_run_by = "Zoe Read" #Code user
Project = "COMPASS"

Run_notes="MC 10 was low in 4/8 plates. Plate 1 and 4 dups were bad.
2/8 dups were bad. Used 10 uL spike for all plates.
3/8 spikes were bad. Plate 15 Std curve used for all plates."#any notes from run

#Stds that should be excluded
# stds_to_remove<-data.frame(Plate=c("Plate6"),IDs=c("Std 3"))
stds_to_remove<-NA
```



Checking STD Data against QAQC file





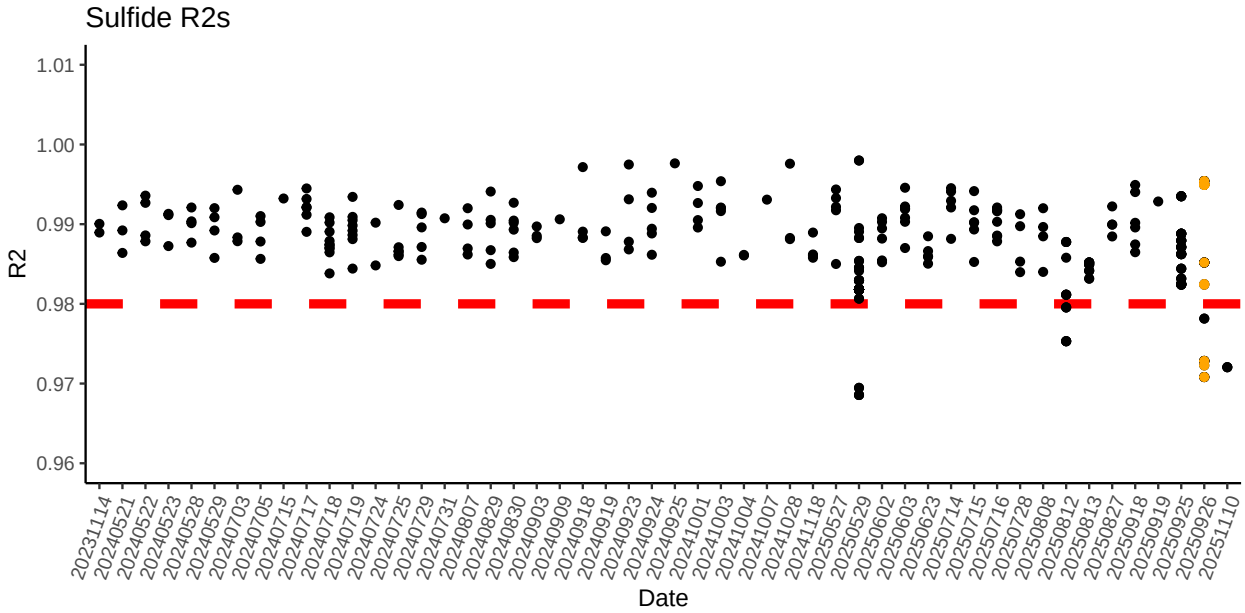
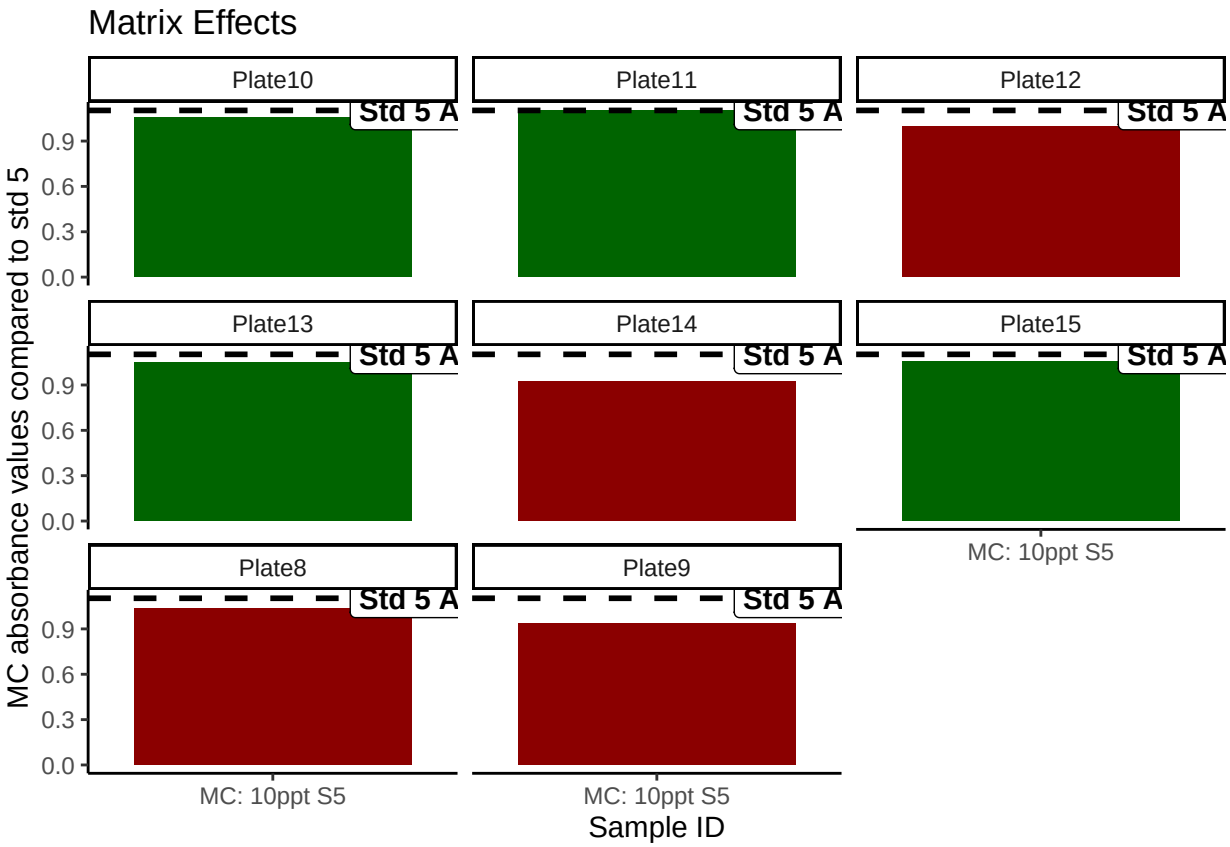
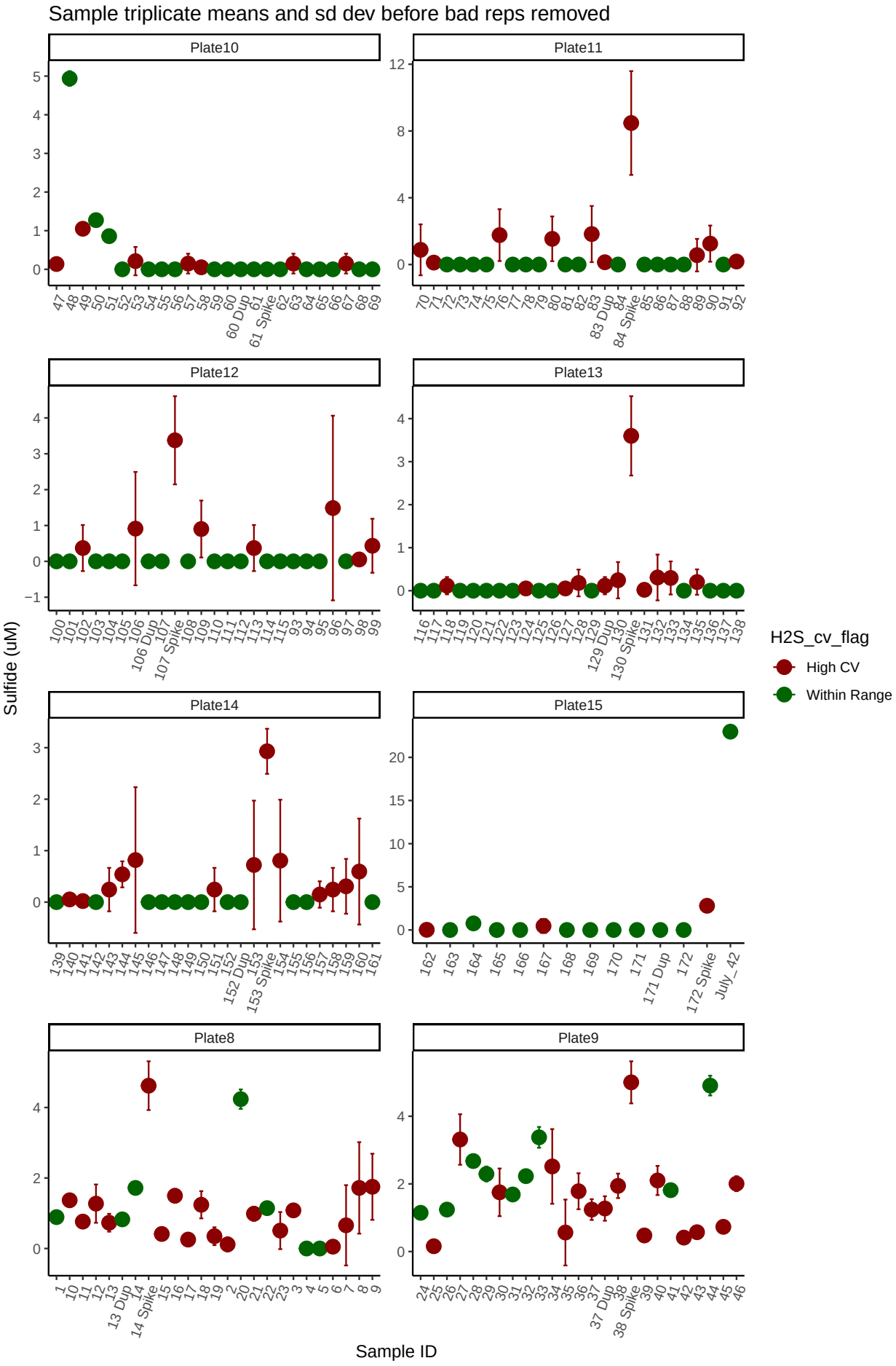


Table 1: Best std curve to use:

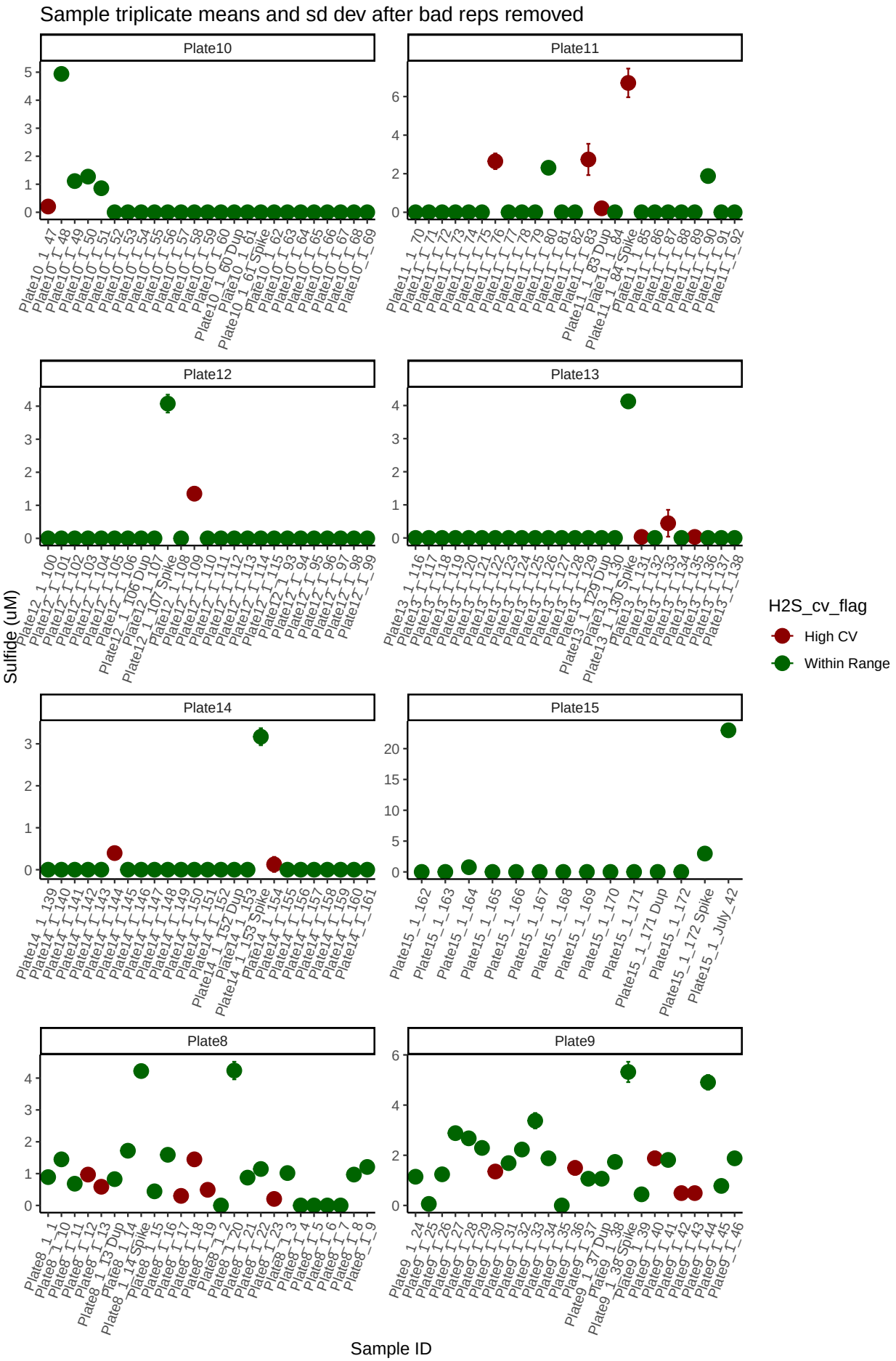
Date	Project	R2	Slope	Intercept	Top_STD	Plate
20250926	COMPASS	0.9954127	0.0104582	0.0743561	100	Plate15

Matrix Check QAQC

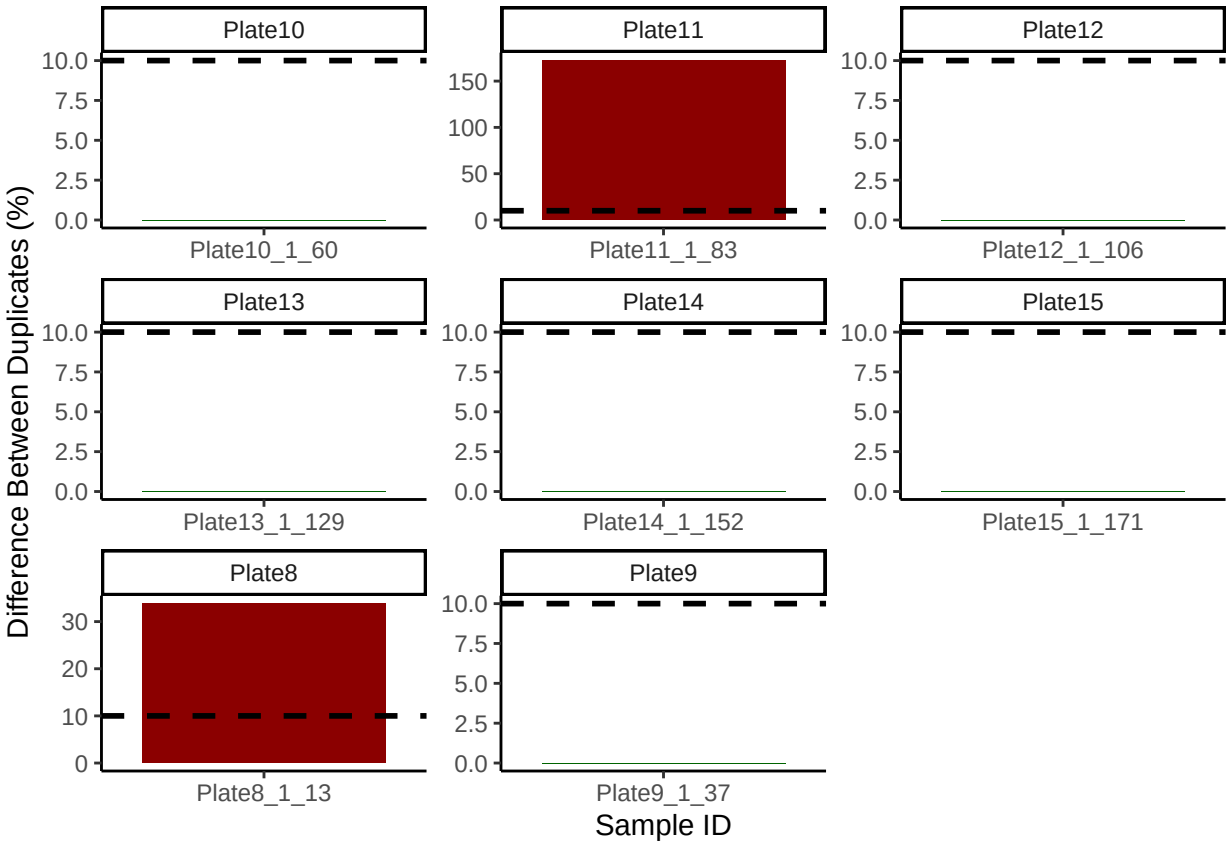



Sample triplicate means and sd dev before bad reps removed
Plate10
Plate11
Plate12
Plate13
Plate14
Plate15
Plate8
Plate9
Sulfide (uM)
Sample ID
H2S_cv_flag
High CV
Within Range

Remove bad reps

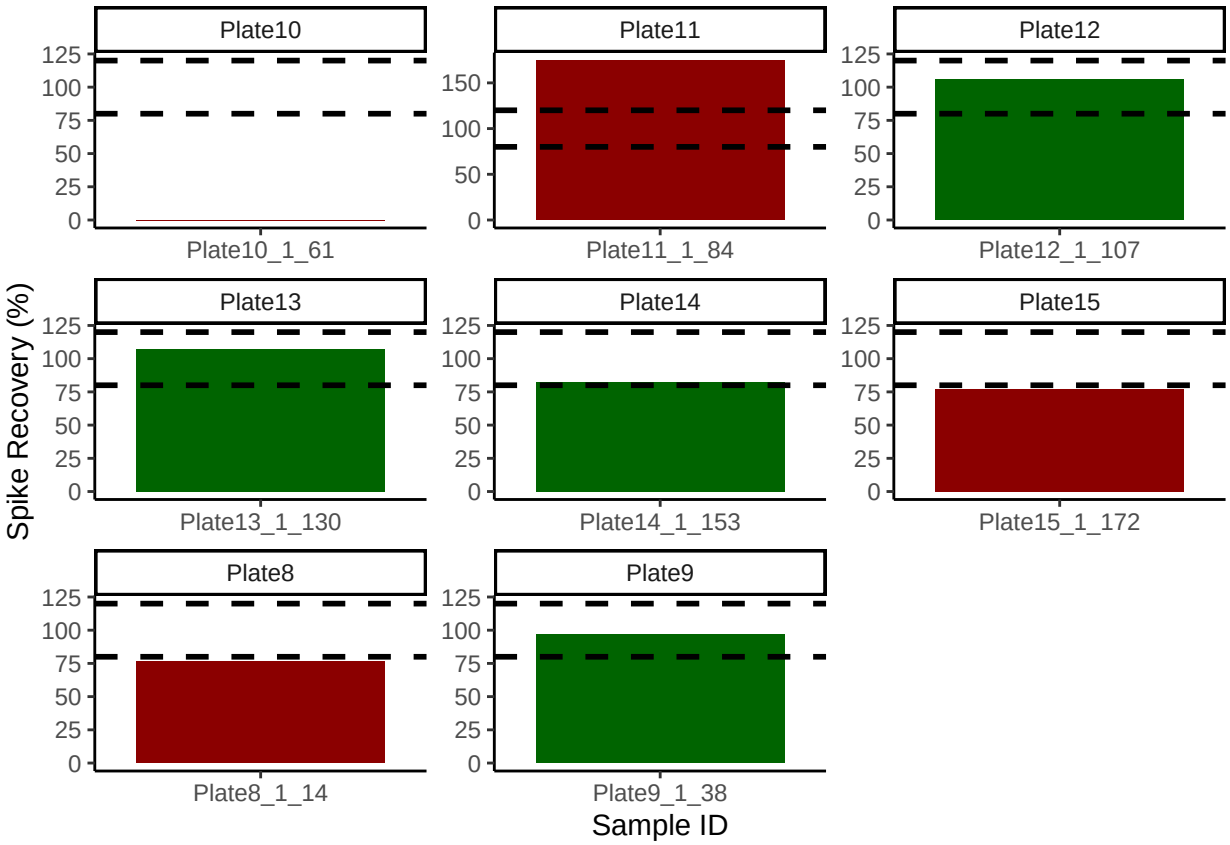


Check the dups for QAQC




```
## [1] ">60% of Duplicates are within <10%"
```

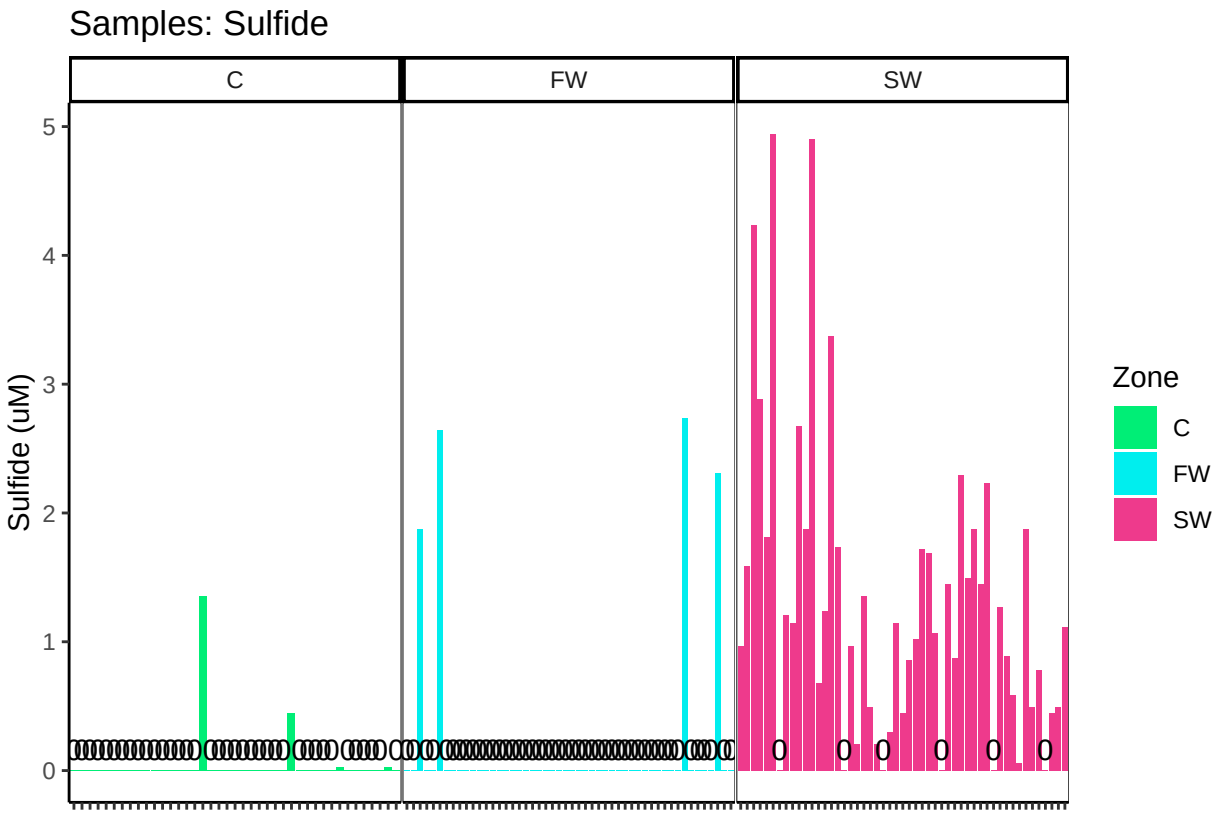
Check the spks for QAQC




```
## [1] "<60% of Spikes are out of range - REASSESS"
```

```
## ***All sample IDs are present in metadata.***
```

Visualize Data by Plot



###END