TEMPEST: Porewater Sulfide

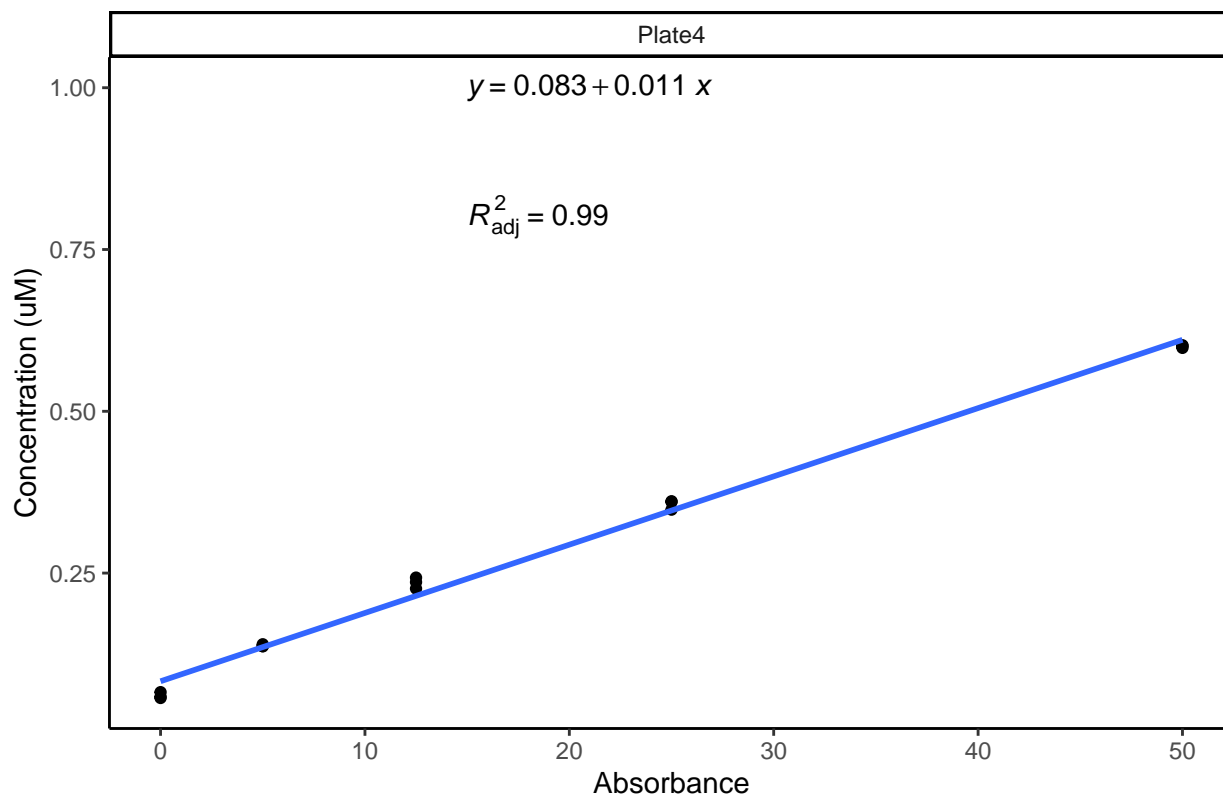## 2025 Samples Ran on 20251110

2025-12-11

Run Information

```r
###things that need to be changed
Date_Run = "20251110"
plates<- c("Plate4")
Month = "Nov"
Year = "2025"
Run_by = "Zoe Read"   #Instrument user
Script_run_by = "Zoe Read" #Code user
Project = "COMPASS"

Run_notes="Some sample IDs are missing from metadata: TMP_SW_PW_H6_20250926_15CM
Removed std 5 because it was low and none of the sample absorbances are above Std 3.
Matrix checks were high, probably because std 5 was low.
Dup and spk were good.
50 uL spike used"#any notes from run

#Stds that should be excluded
stds_to_remove<-data.frame(Plate=c("Plate4"),IDs=c("Std 5"))
# stds_to_remove<-NA
```

STD Curves

Plate4

$$y = 0.083 + 0.011\ x$$
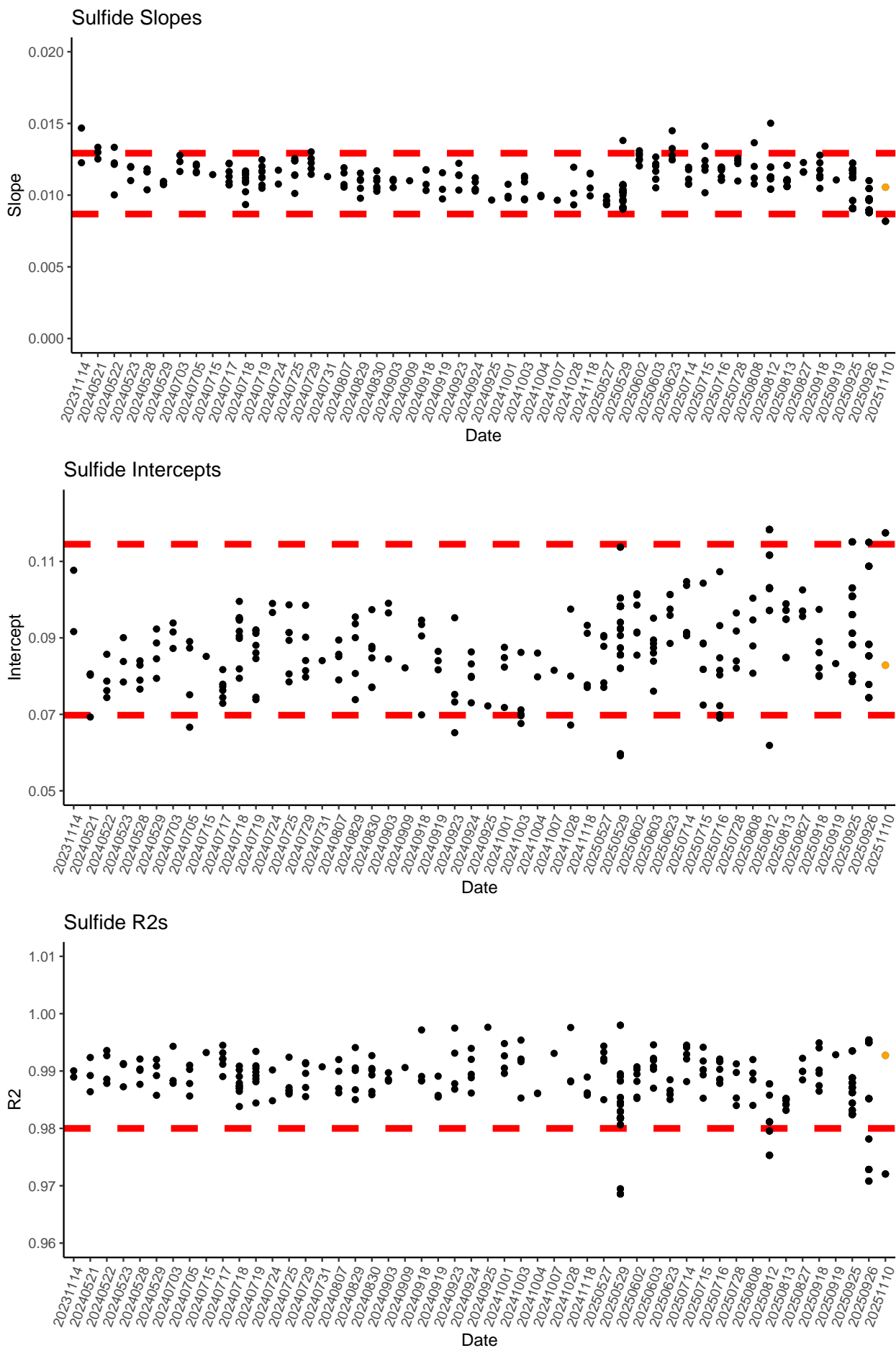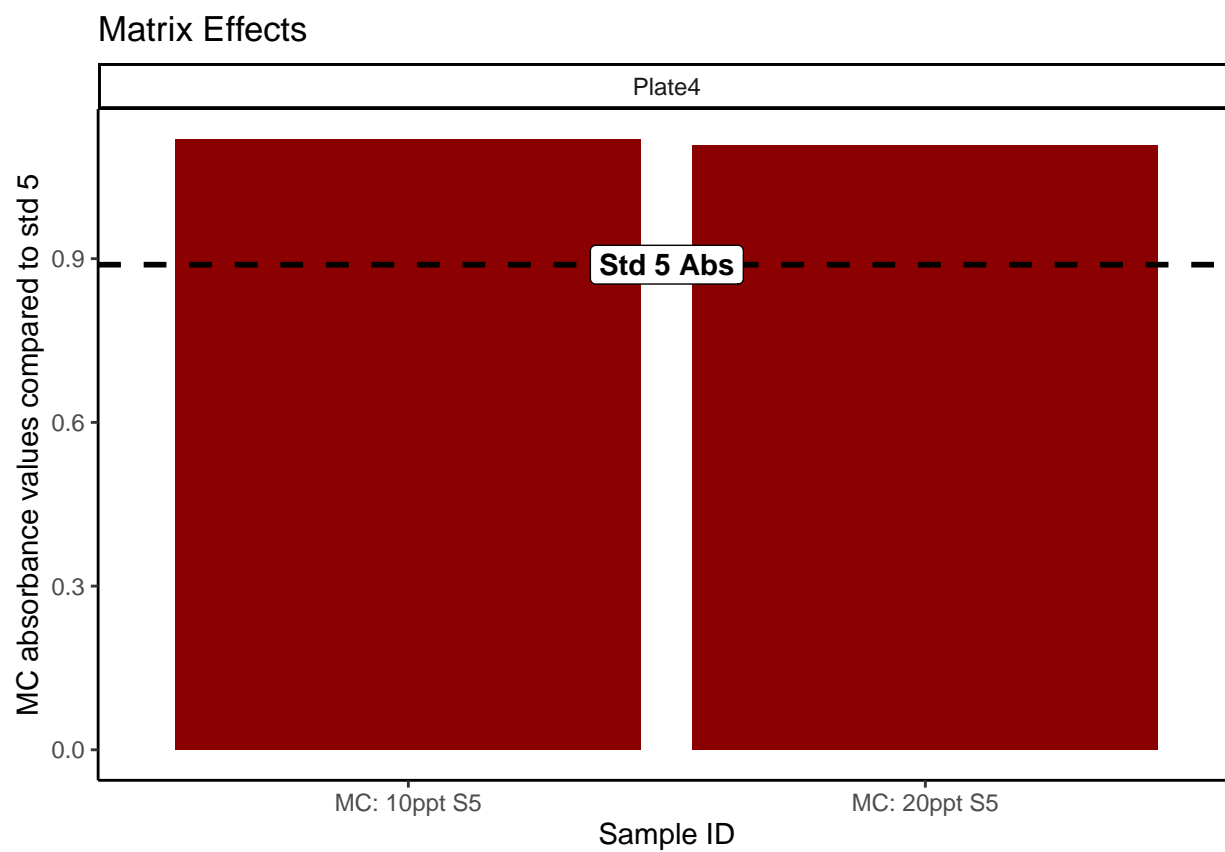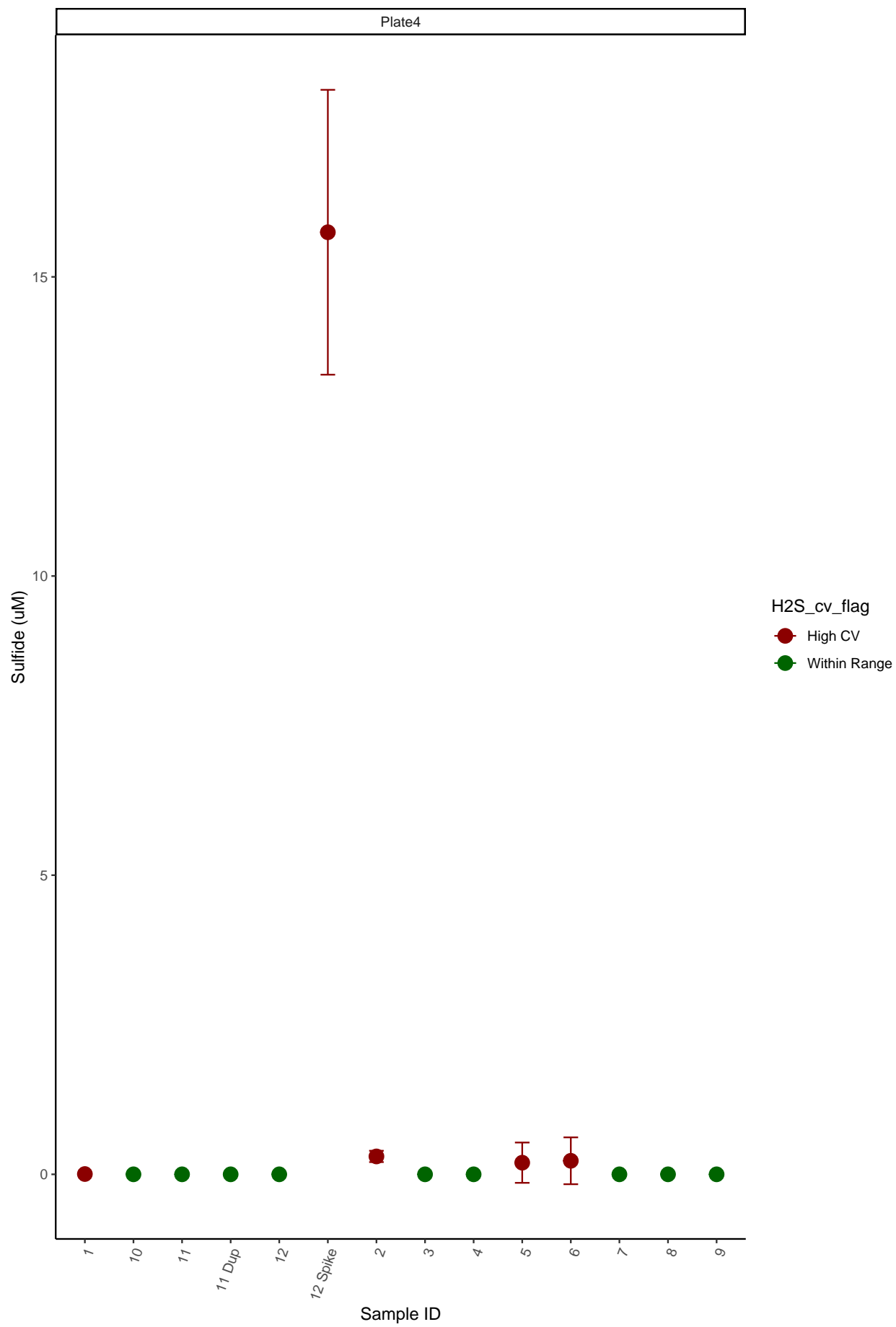
$$R^2_{adj} = 0.99$$

Checking STD Data against QAQC file

Sulfide Slopes

Sulfide Intercepts

Sulfide R2s

Table 1: Best std curve to use:

Date	Project	R2	Slope	Intercept	Top_STD	Plate
20251110	COMPASS	0.9927291	0.0105526	0.0828443	50	Plate4

Matrix Check QAQC

Matrix Effects
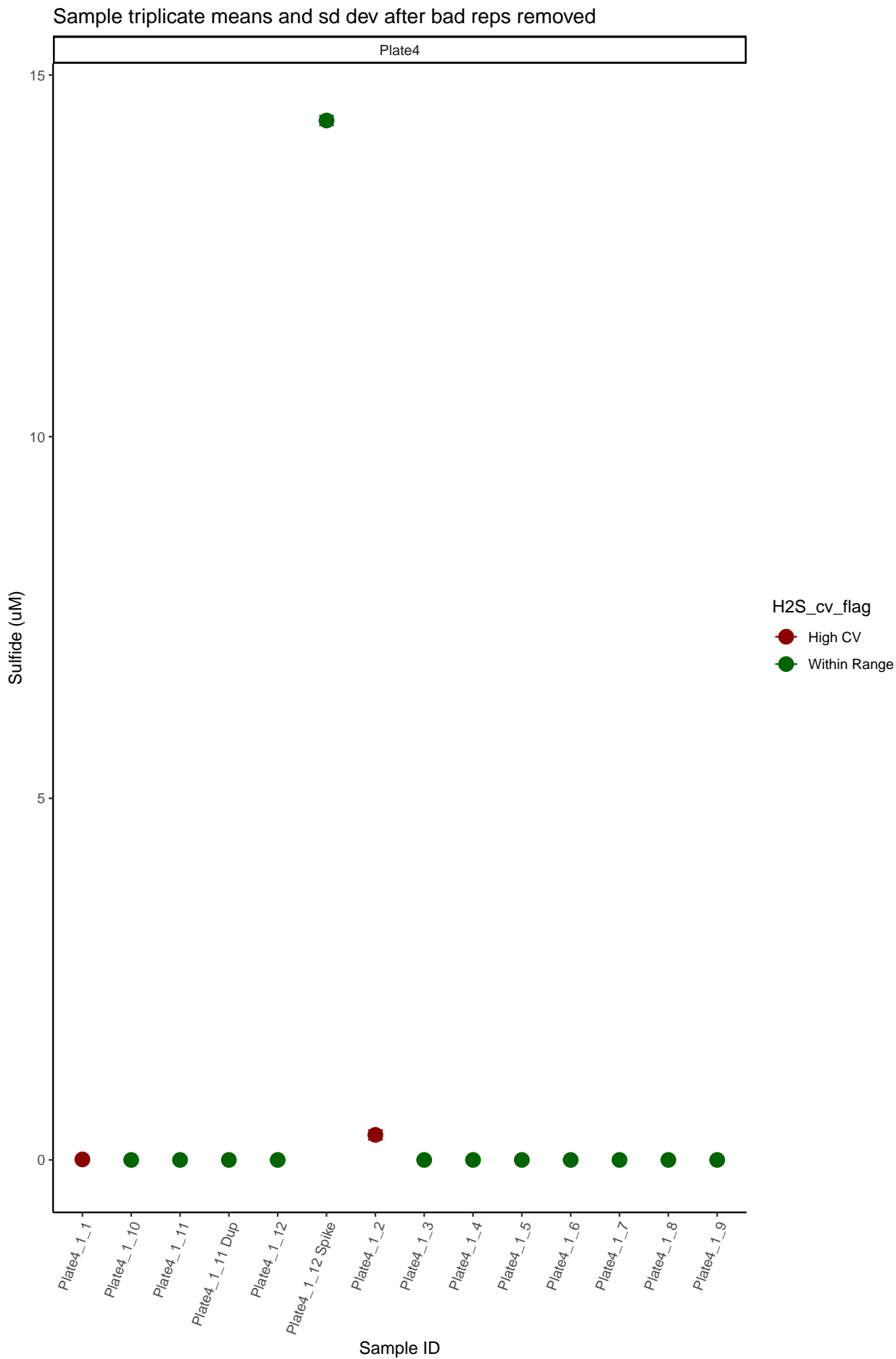
Sample triplicate means and sd dev before bad reps removed

Remove bad reps
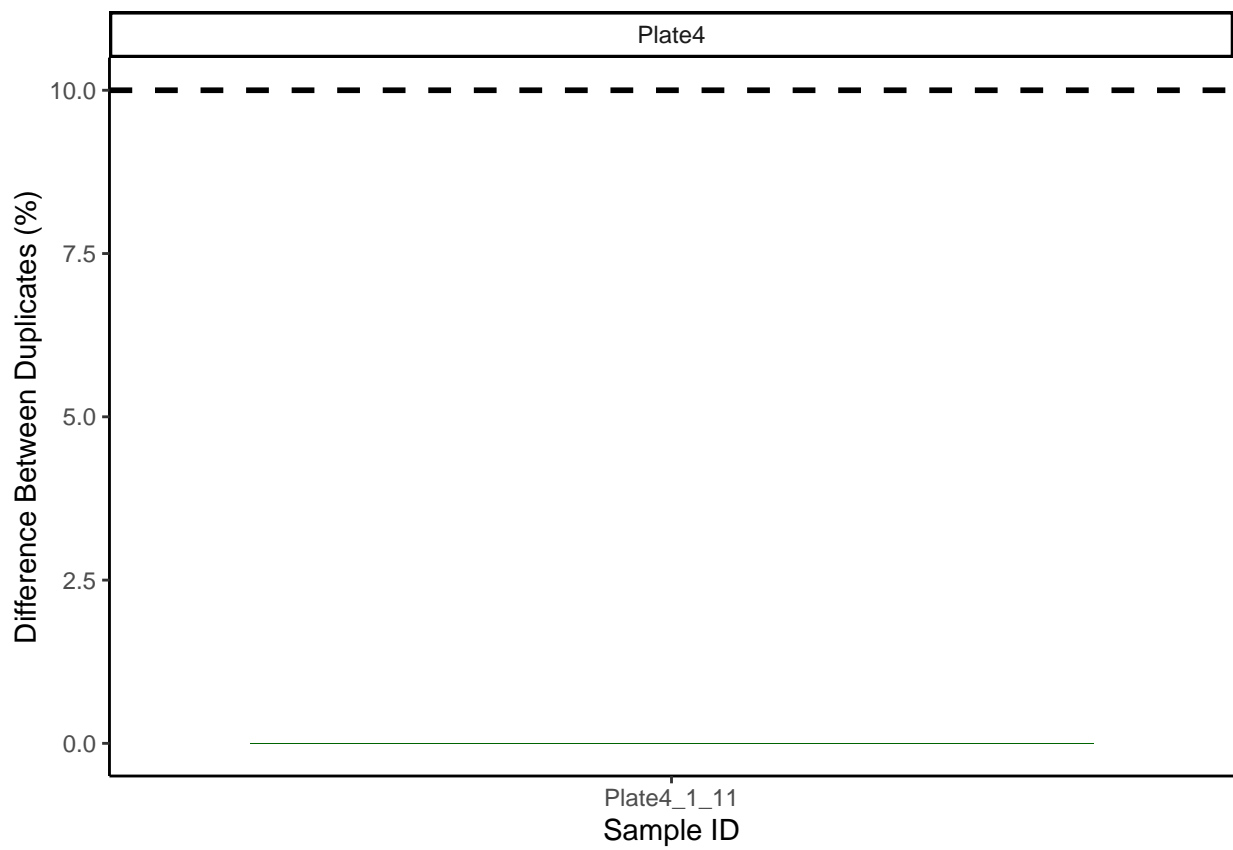
Sample triplicate means and sd dev after bad reps removed

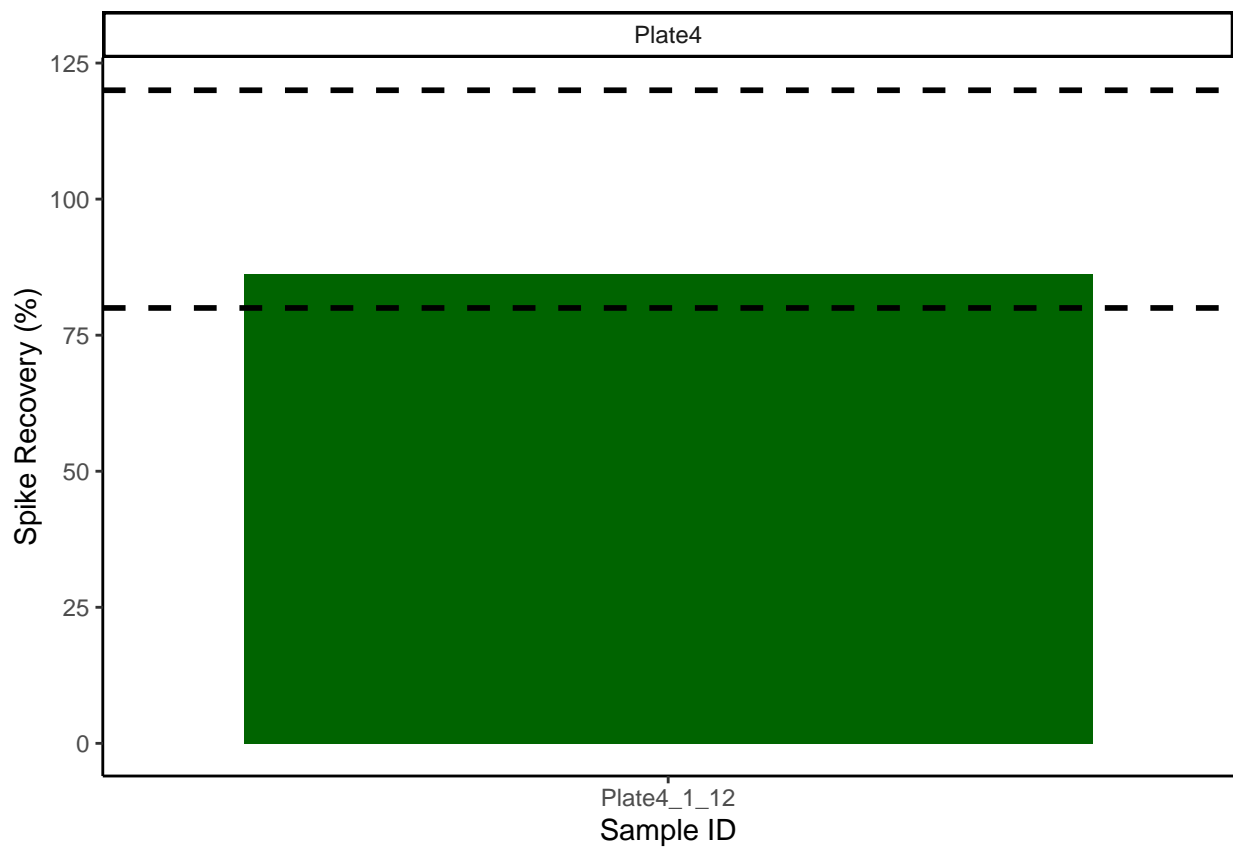# Check the dups for QAQC


```
## [1] ">60% of Duplicates are within <10%"
```
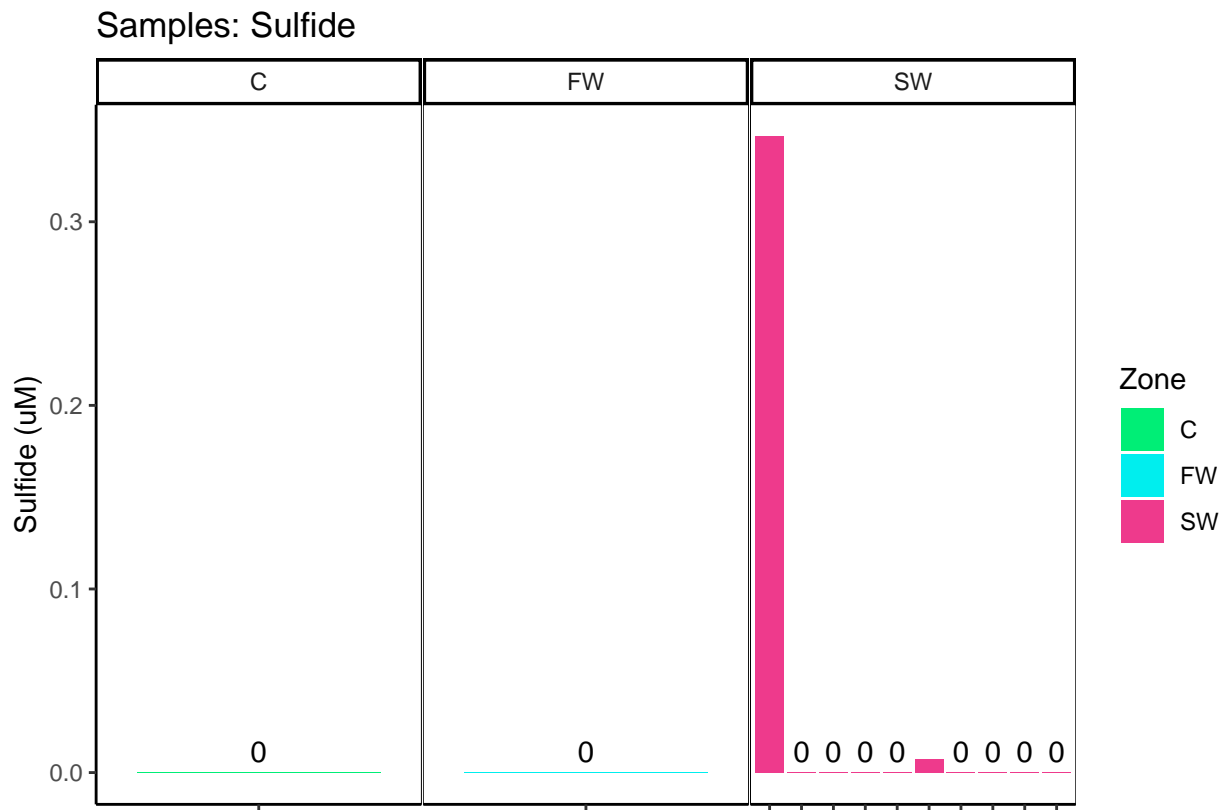
Check the spks for QAQC


```
## [1] ">60% of Spikes are within range"

## ***Some sample IDs are missing from metadata.***

## [1] "TMP_SW_PW_H6_20250926_15CM"
```

Visualize Data by Plot

Samples: Sulfide

###END