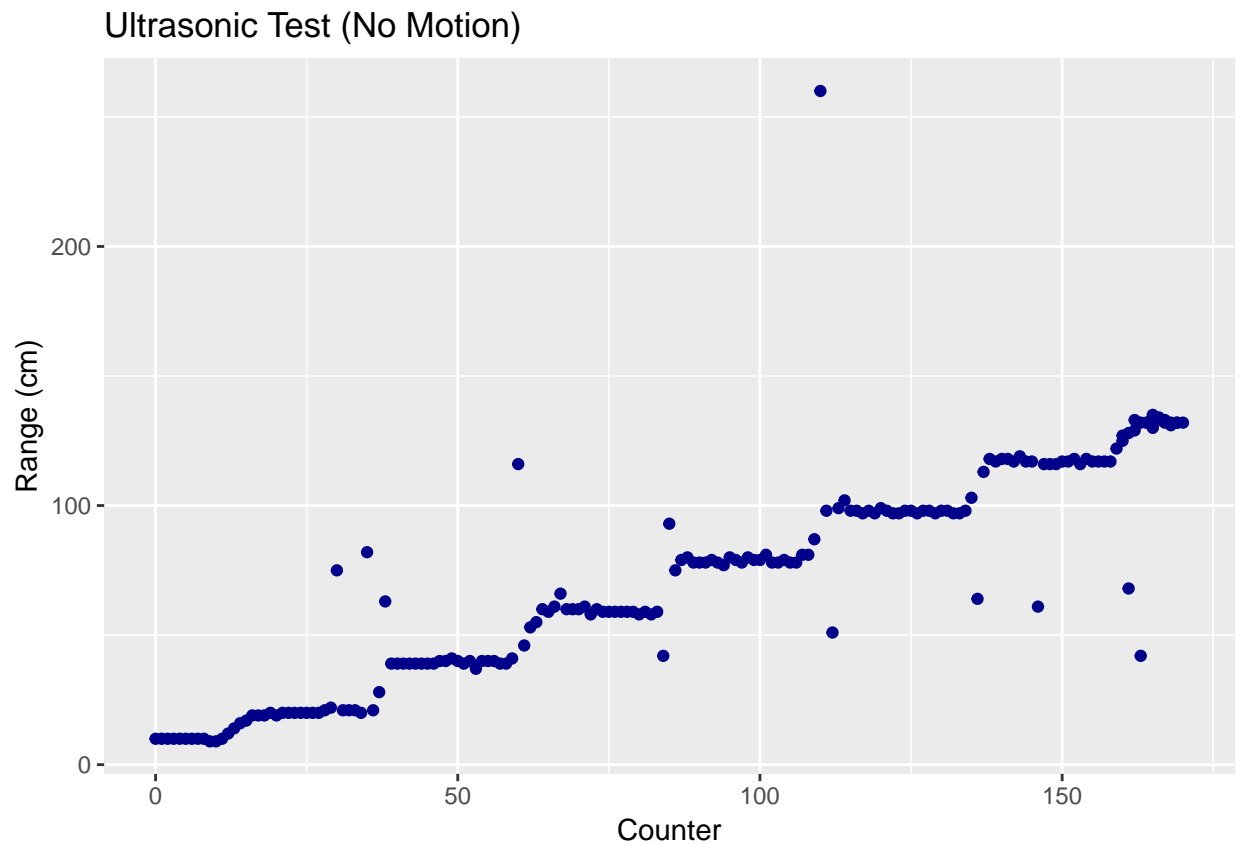


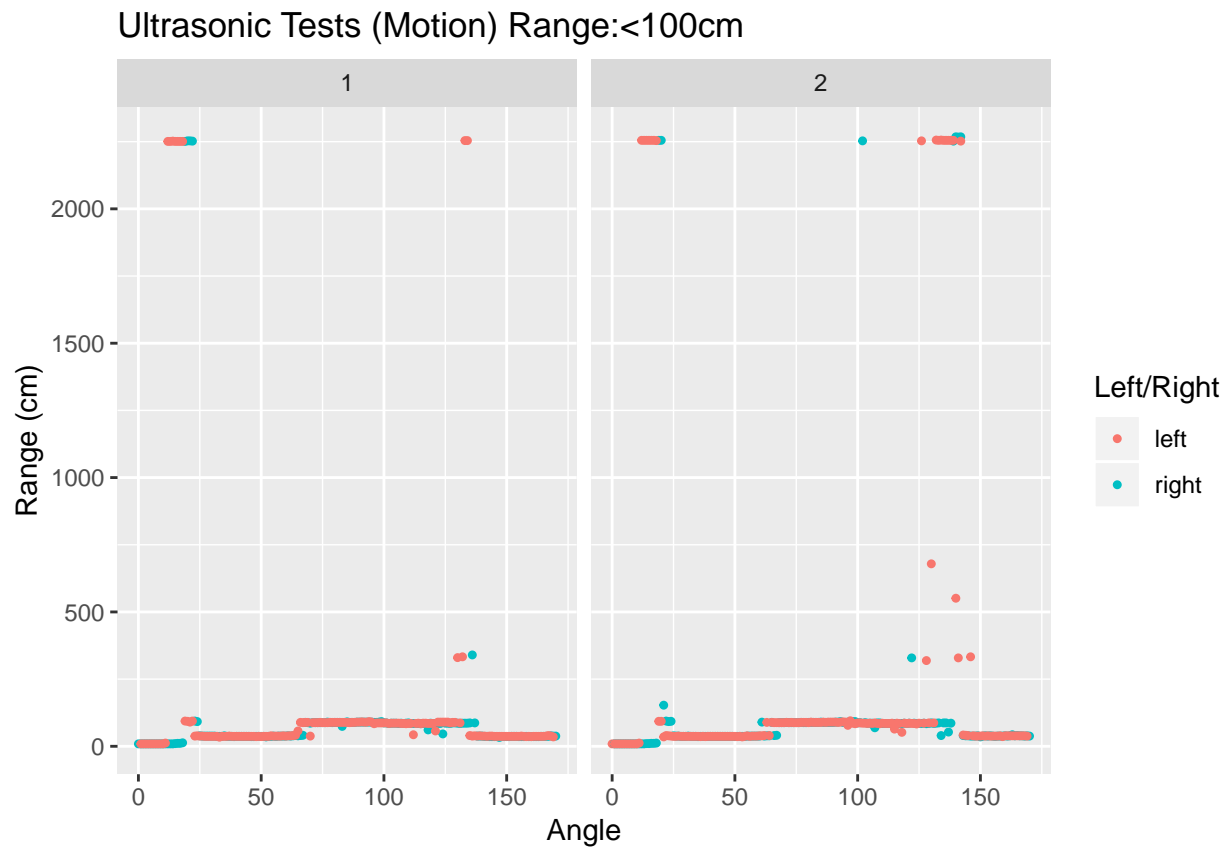
# Radar

## Including Plots

```
ggplot(data = noMotion, mapping = aes(x = noMotion$Angle, y = noMotion$Range)) +  
  geom_point(color = "darkblue") +  
  labs(title = "Ultrasonic Test (No Motion)") +  
  labs(x = "Counter") +  
  labs(y = "Range (cm)")
```



```
ggplot(data = withMotion, mapping = aes(x = withMotion$Angle, y = withMotion$Range,
color = withMotion$LeftRight)) +
  geom_point(size = 0.9)+
  facet_grid(cols = vars(withMotion$Test))+
  labs(title = "Ultrasonic Tests (Motion) Range:<100cm")+
  labs(x="Angle")+
  labs(y="Range (cm)")+
  labs(color="Left/Right")
```



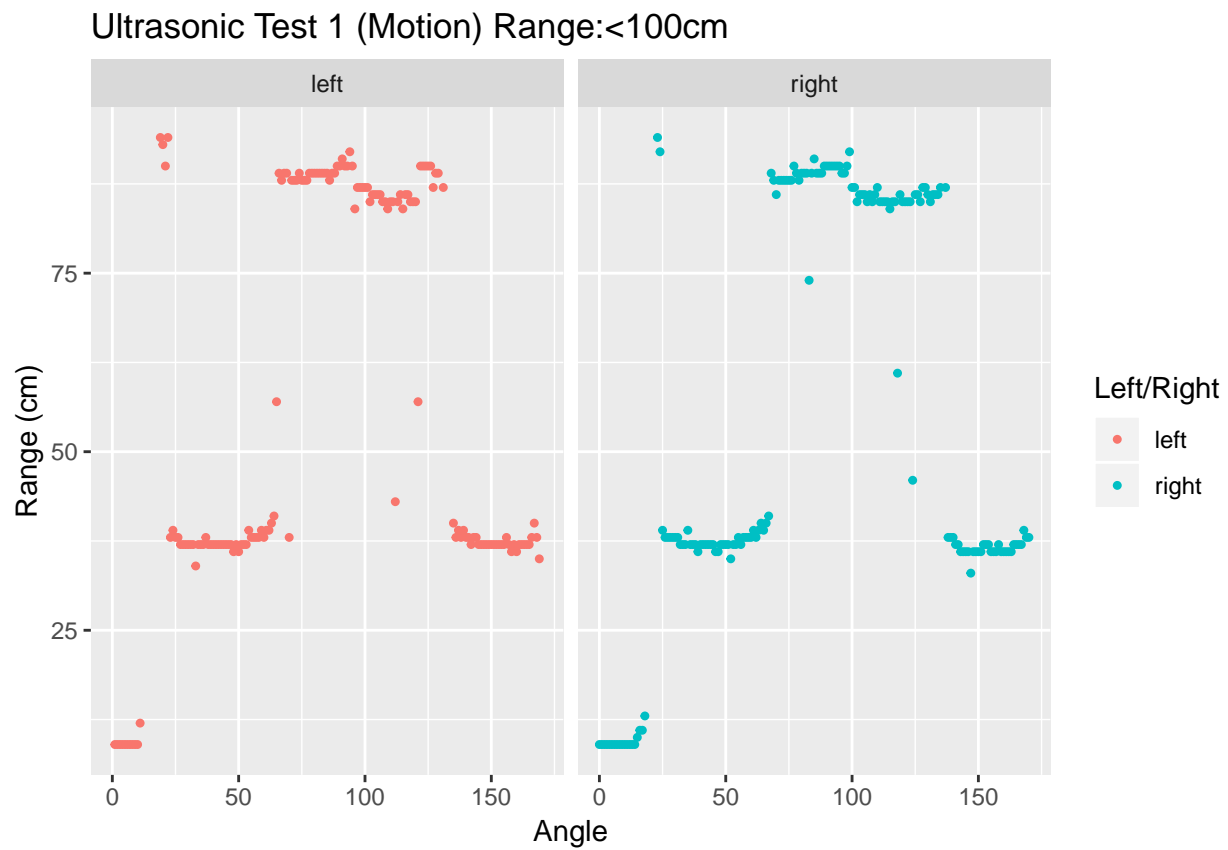
```
range100<-filter(withMotion, Range < 100)

ggplot(data = range100, mapping = aes(x = range100$Angle, y = range100$Range,
  color = range100$LeftRight)) +
  geom_point(size = 0.9)+
  facet_grid(cols = vars(range100$Test))+
  labs(title = "Ultrasonic Tests (Motion) Range:<100cm")+
  labs(x="Angle")+
  labs(y="Range (cm)")+
  labs(color="Left/Right")
```



```
test1<-filter(withMotion, Range < 100 & Test == 1)
```

```
ggplot(data = test1, mapping = aes(x = test1$Angle, y = test1$Range,
  color = test1$LeftRight)) +
  geom_point(size = 0.9)+
  facet_grid(cols = vars(test1$LeftRight))+
  labs(title = "Ultrasonic Test 1 (Motion) Range:<100cm")+
  labs(x="Angle")+
  labs(y="Range (cm)")+
  labs(color="Left/Right")
```



```
test2<-filter(withMotion, Range < 100 & Test == 2)
```

```
ggplot(data = test2, mapping = aes(x = test2$Angle, y = test2$Range,color = test2$LeftRight)) +  
  geom_point(size = 0.9)+  
  facet_grid(cols = vars(test2$LeftRight))+  
  labs(title = "Ultrasonic Test 2 (Motion) Range:<100cm")+  
  labs(x="Angle")+  
  labs(y="Range (cm)")+  
  labs(color="Left/Right")
```

