BL(u)E CRAB:

RSSI Detection Pattern Analysis for Flagging System Development

Zhi Qu

What is the Threat?

Stalking

- Making unwanted and persistent phone calls
- Approaching or showing up in places uninvited
- Following and watching the person
- Sending unwanted texts, emails, and social media messages
- Delivering unwanted gifts
- Utilizing technology for monitoring and tracking

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AirTag

Affordable



Free Engraving

AirTag

\$29.00

AirTag

Affordable



Accessible

Free Engraving
AirTag

\$29.00

AirTag

Affordable

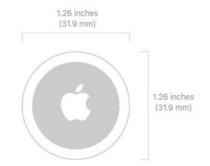


Accessible

Compact

Free Engraving
AirTag

\$29.00



Size

Diameter: 1.26 inches (31.9 mm) Height: 0.31 inch (8.0 mm)

Weight

0.39 ounce (11 grams)

BL(u)E CRAB

- App
- Scans for BLE nearby
- Logs device info
- Assess risk
- Flags device

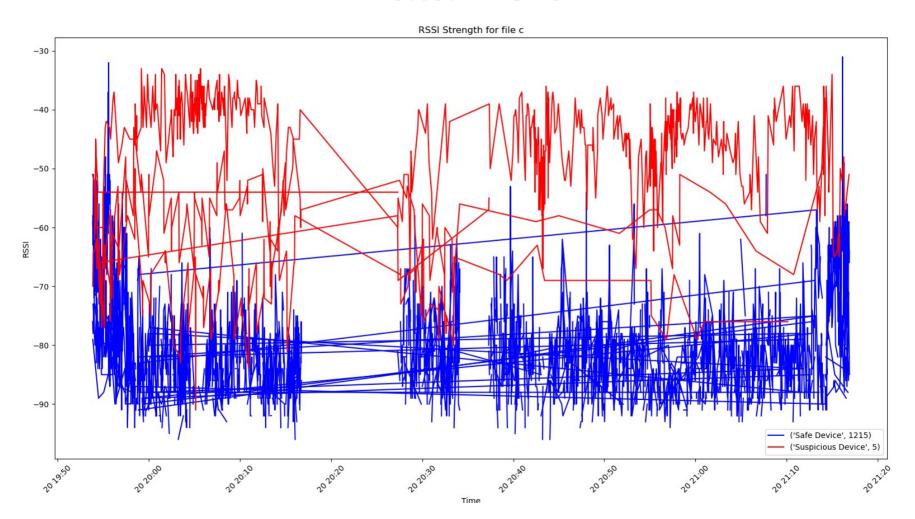
The Code

Reading the data

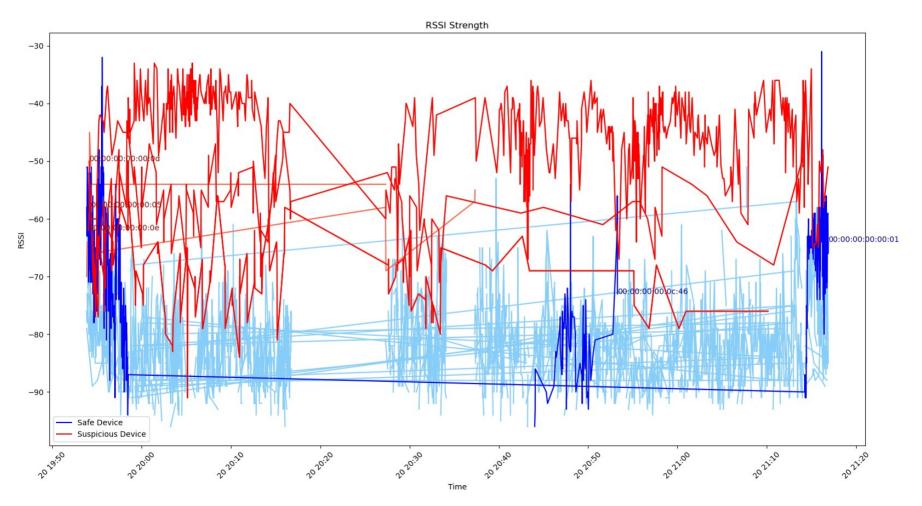
Identifying each mac id

```
def sort():
36
37
         mac, rssi, time = make rssi()
38
         fmac = list(set(mac))
39
         arssi = []
40
         atime = []
41
         for i in fmac:
42
             r = []
43
             t = []
             for idx, e in enumerate(mac):
45
                  if i == e:
46
                      r.append(rssi[idx])
                      t.append(time[idx])
             arssi.append(r)
             atime.append(t)
49
```

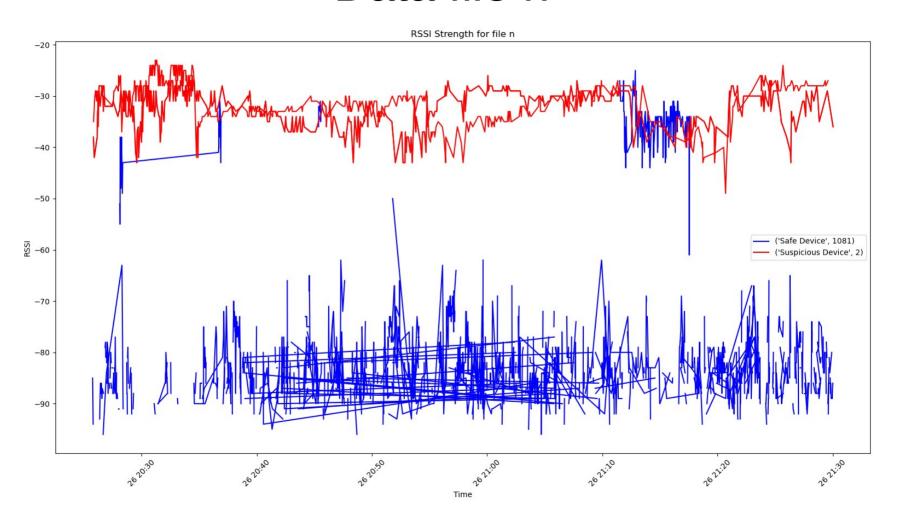
Data file c



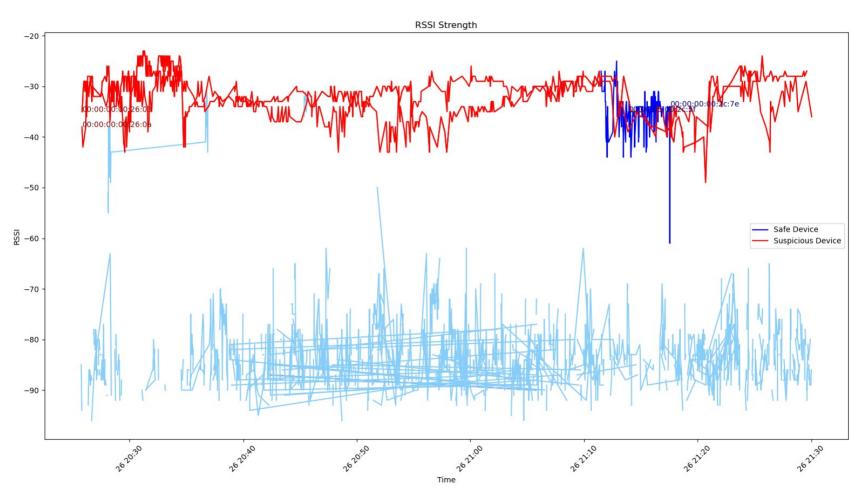
Data file c – long detection



Data file n



Data file n - long detection



Time of day – G,N,J

