Case Study Assignment: Exploring Field Test Mode on Smartphone

1.Device Types Covered:

○ Android Devices (General)

2. Key Information to Collect:

○ IMEI Number (International Mobile Equipment Identity): 355810310349538

○ MAC Address (Media Access Control address) : 2c:be:eb:e9:30:c0

IP Address (Internet Protocol address):

2409:40f4:3058:be67:8000::192.0.0.4

○ Network Operator/Brand (Name of the cellular provider) :JIO

○ Network Type (4G LTE, 5G, etc.) : 4G LTE

○ Signal Strength (Measured in dBm) : 37.03 Mbps

○ Download/Upload Bandwidth (Physical channel configuration and speed)

- DL Bandwidth (kbps): 9742
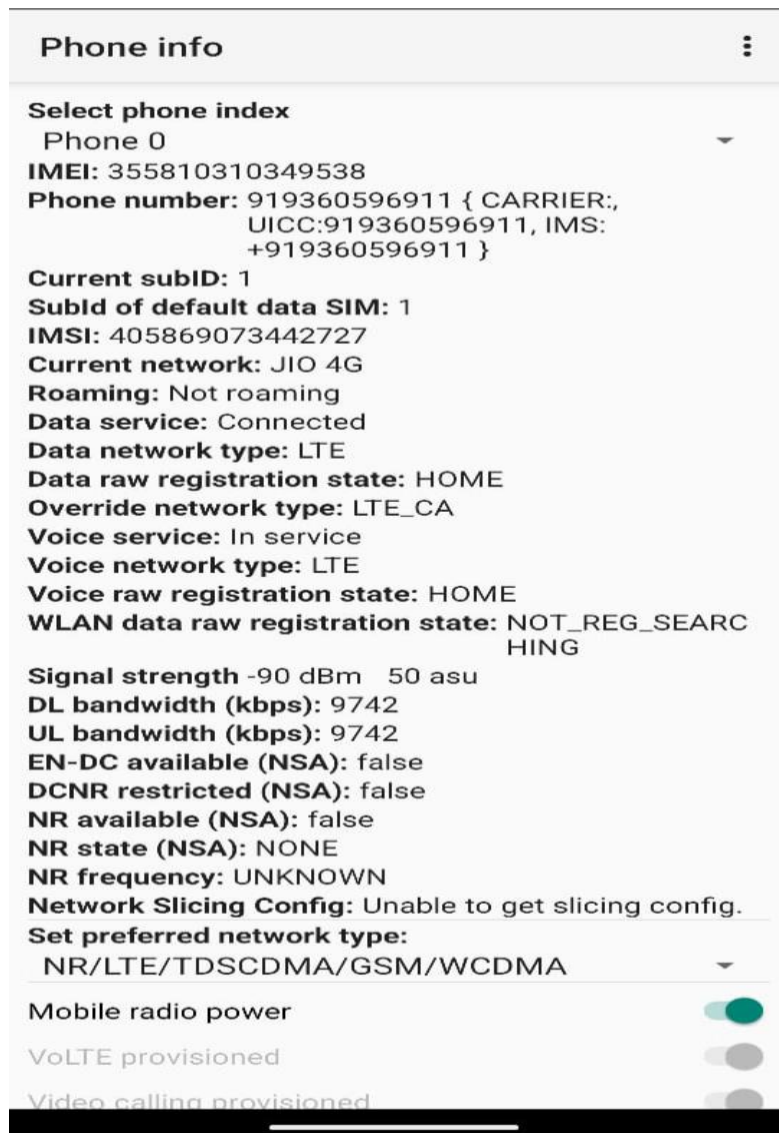- UL Bandwidth (kbps): 9742

3.Explanation of IMEI ,MAC ,IP

IMEI (International Mobile Equipment Identity): This is a unique number assigned to every mobile phone. It's mainly used to identify and track a specific phone, especially when it's stolen. It helps mobile networks keep track of which devices are using their services.

MAC Address (Media Access Control): Every device that connects to a network, like your phone or computer, has its own MAC address. This is a unique code that helps a router or switch know which device it's talking to on a local network. It's important to keep track of who's connected and allows for security control.

IP Address (Internet Protocol Address): This is the address your device gets when it connects to the internet or any network. Think of it like the device's online postal address. Without it, your device wouldn't know how to send or receive data from websites or other devices on the network.

4.Screenshot of Testing:

RUN PING TEST

Ping hostname(www.google.com) IPv4:
Ping hostname(www.google.com) IPv6:
HTTP client test:

Data sent 1425389 pkts, 365089555 bytes
Data received: 6032708 pkts, 7332921332 bytes
Number of PPP reset since boot:

Voice call status: Idle
Message waiting: false
Call redirect: false

Mobile info refresh rate:
Disabled ▾

LTE physical channel configuration:
All mobile measurement info:

```
NR
SRV MCC MNC TAC     NCI    PCI NRARFC SS-R SS-R
R+P 405 869 115    43675  465 634080 -102 -11
N   nul nul        26843  416 634080 -124 -16
N   nul nul        26843  286 634080 -126 -18
```

OPERATOR PROVISIONIN G INFO

TRIGGER OPERATOR PROVISIONIN G

OEM-SPECIFI C INFO/ SETTINGS

SMSC: UPDATE REFRESH