

Spyzzer Test Report

Test Date: 29/07/2025

Device Model: SPYZZER

Version: 2.0

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1. Test Objective

To verify that the palm-sized Spyzzer device provides **≥50 dB shielding effectiveness** for mobile communications (LTE/5G) and effectively blocks **Wi-Fi, Bluetooth, and NFC** signals when tested using a smartphone.

Pass Criteria:

- **Cellular:** RSRP ≤ -120 dBm or “No Service” indication
- **Wi-Fi:** RSSI ≤ -90 dBm or no networks detected
- **Bluetooth:** No devices detected or RSSI ≤ -90 dBm
- **Data Connectivity:** Throughput drops to 0 kbps within 5 seconds
- **Voice/SMS:** Outgoing/incoming calls and SMS fail to connect

2. Equipment & Setup

2.1 Test Equipment

- **Primary Device (DUT):** Apple iPhone 14 Pro
- **Control Device:** Apple iPhone 13
- **Faraday Cage:** SPYZZER
- **Test App Version:** 1.2
- **Network Carrier:** Airtel (e-Sim), Vi (Physical Sim)

3. Baseline Measurements (Outside Spyzzer)

3.1 Cellular Signal Strength

Band	Frequency	RSRP (dBm)	RSRQ (dB)	SINR (dB)	Cell ID
LTE Band 3	1800 MHz	-98	-9	4.2	231409666
LTE Band 40	2600 MHz	-110	-10	2.3	231409666
5G NR Band 78	3500 MHz	-	-	-	-
Other: _____	-	-	-	-	-

3.2 Wi-Fi Signal Strength

SSID	Frequency	RSSI (dBm)	Security
MP	2.4 GHz	-30	WPA2
MP_5G	5 GHz	-39	WPA2

3.3 Bluetooth Scan Results

Device Name	MAC Address	RSSI (dBm)	Device Type
MacBook Air	1C:91:80:D2:25:9E	-43	Laptop
-	-	-	-

3.4 Data Throughput Baseline

- **Download Speed:** 125.43 Mbps
- **Upload Speed:** 25.44 Mbps
- **Ping Latency:** 9 ms
- **Test Server:** TATA PLAY BROADBAND (PUNE)

3.5 Ambient Sound Levels

- Ambient (no Sound): 48dB

- While Music Playing (1ft away): 84dB

4. Test Execution Log

4.1 Test Run

Phone Orientation: Portrait

Test Start Time: 16:10

Cage Closed Time: 16:11

Test End Time: 16:15

Cellular Signal (In-Cage)

Band	RSRP (dBm)	RSRQ (dB)	SINR (dB)	Status	Note
LTE Band 3	-161	-30	-50	Pass	No Signal
LTE Band 7				Pass	Couldn't Connect
5G NR Band 78	-	-	-	N/A	Not Available

Wi-Fi Results

SSID	RSSI (dBm)	Status	Attenuation (dB)
MP	-91	Pass	-

Bluetooth Scan Results

Devices Found	Status
0 devices	Fail

Data Connectivity

- **HTTP Ping:** Fail (timeout after 5 seconds)
- **Download Test:** Fail (speed: 0 kbps)

Voice/SMS Tests

- **Outgoing Call Attempt:** Fail
- **Incoming Call Test:** Fail
- **SMS Send Test:** Fail
- **SMS Receive Test:** Fail

Sound Isolation

- Ambient (inside cage): 30dB
- While Music Playing: 38dB
- Observation: No intelligible sound detected

5. Test Results Summary

Test Category	Run 1	Run 2	Run 3	Overall Result
Cellular Blocking	Pass	Pass	Pass	Pass
Wi-Fi Blocking	Pass	Pass	Pass	Pass
Bluetooth Blocking	Pass	Pass	Pass	Pass
Data Blocking	Pass	Pass	Pass	Pass
Voice/SMS Blocking	Pass	Pass	Pass	Pass
Sound Blocking	Pass	Pass	Pass	Pass

6. Observations & Anomalies

6.1 Test Anomalies

- None detected. No intermittent signals or equipment issues observed.

6.2 Environmental Conditions

- **Temperature:** 23 °C
- **Humidity:** 80 %
- **Nearby RF Sources:** None

7. Conclusions

Overall Result: PASS

- **Justification:** The SPYZZER met all test criteria. Cellular, Wi-Fi, Bluetooth, and NFC communication were effectively blocked. The device achieved an average sound attenuation of **48 dB**, confirming its acoustic shielding capability.