

Seychelles Test Drive

Anse Etoile Phase-2 Report



Phase-1 Dates- 04th Oct 2024



Route Name: Mahe

District Name: Anse Etoile

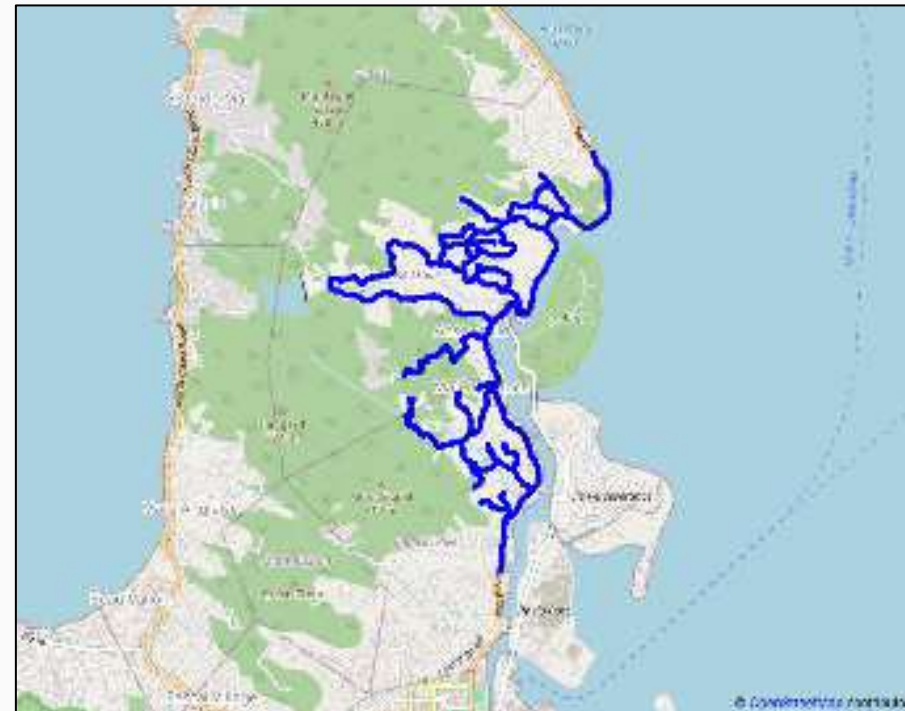
Region: Northern

Island: Mahé

Drive Test Distance: 28.89 kms

Drive Test Duration: 01 hours,41 minutes,34 seconds

Phase-2 Dates- 18th Oct 2024



Route Name: Mahe

District Name: Anse Etoile

Region: Northern

Island: Mahé

Drive Test Distance: 26.96 kms

Drive Test Duration: 01 hours,17 minutes,32 seconds

Phase-1**Short Call Findings:**

- The Call Setup Success Rate for Airtel is (99.22%), while for Operator CWS it is (97.64%).
- The Call Setup Time for Airtel is (6.72s) , while for Operator CWS it is (7.75s)

Long Call Findings :

- The Call Retainability for Airtel is (100.00%), while for CWS it is (100.00%).
- The MOS quality observed for Airtel is (3.10), and for CWS, it is (3.30).

Phase-2**Short Call Findings:**

- The Call Setup Success Rate for Airtel is (98.97%), while for Operator CWS it is (96.84%).
- The Call Setup Time for Airtel is (6.55s), while for Operator CWS it is (7.45s)

Long Call Findings :

- The Call Retainability for Airtel is (96.15%), while for CWS it is (96.30%).
- The MOS quality observed for Airtel is (3.10), and for CWS, it is (3.37).

Phase-1

4G Preferred Data Findings:

- Airtel SFTP DL is (11.62 Mbps), while SFTP UL is (5.82 Mbps), CWS SFTP DL is (5.08 Mbps), while SFTP UL is (3.22 Mbps)
- Airtel HTTP DL is (16.11 Mbps), HTTP Capacity DL is (33.34 Mbps) ,HTTP UL is (10.67 Mbps) , and HTTP Capacity UL is (19.44 Mbps).
- CWS HTTP DL is (6.55 Mbps), HTTP Capacity DL is (28.00 Mbps) ,HTTP UL is (6.38 Mbps) , and HTTP Capacity UL is (27.14 Mbps).
- On live web page testing for browsing, www.shein.com took (7.06s), www.nbs.gov.sc took (18.66s), and www.sbc.sc took (20.60s) on Airtel.
- On live web page testing for browsing, www.shein.com took (10.33s), www.nbs.gov.sc took (16.52s), and www.sbc.sc took (20.74s) on CWS.
- On static browsing, Kepler Webpage took (4.58s), and Kepler Mobile took (1.94s) on Airtel.
- On static browsing, Kepler Webpage took (5.49s), and Kepler Mobile took (3.09s) on CWS.
- YouTube average resolution in Airtel is (1024.91) pixels.
- YouTube average resolution in CWS is (985.97) pixels.
- Airtel scored 59.30% in Carrier Aggregation (CA).
- CWS scored 26.19% in Carrier Aggregation (CA).

Phase-2

4G Preferred Data Findings:

- Airtel SFTP DL is (11.59 Mbps), while SFTP UL is (6.86 Mbps), CWS SFTP DL is (6.69 Mbps), while SFTP UL is (3.94 Mbps)
- Airtel HTTP DL is (19.37 Mbps), HTTP Capacity DL is (53.33 Mbps) ,HTTP UL is (11.01 Mbps) , and HTTP Capacity UL is (22.03 Mbps).
- CWS HTTP DL is (8.26 Mbps), HTTP Capacity DL is (20.69 Mbps) ,HTTP UL is (8.09 Mbps) , and HTTP Capacity UL is (29.80 Mbps).
- On live web page testing for browsing, www.shein.com took (7.12s), www.nbs.gov.sc took (17.94s), and www.sbc.sc took (18.83s) on Airtel.
- On live web page testing for browsing, www.shein.com took (6.51s), www.nbs.gov.sc took (17.59s), and www.sbc.sc took (17.18s) on CWS.
- On static browsing, Kepler Webpage took (4.63s), and Kepler Mobile took (1.68s) on Airtel.
- On static browsing, Kepler Webpage took (4.85s), and Kepler Mobile took (2.91s) on CWS.
- YouTube average resolution in Airtel is (1080.00) pixels.
- YouTube average resolution in CWS is (1069.51) pixels.
- Airtel scored 63.69% in Carrier Aggregation (CA).
- CWS scored 30.99% in Carrier Aggregation (CA).

Phase-1

3G Preferred Data Test Findings:

- Airtel SFTP DL is (5.15 Mbps), while SFTP UL is (1.82 Mbps), CWS SFTP DL is (3.17 Mbps), while SFTP UL is (1.20 Mbps)
- Airtel HTTP DL is (4.98 Mbps), HTTP Capacity DL is (6.86 Mbps) ,HTTP UL is (2.45 Mbps) , and HTTP Capacity UL is (5.10 Mbps).
- CWS HTTP DL is (2.97 Mbps), HTTP Capacity DL is (7.97 Mbps) ,HTTP UL is (2.07 Mbps) , and HTTP Capacity UL is (4.67 Mbps).
- On live web page testing for browsing, www.shein.com took (10.18s), www.nbs.gov.sc took (11.79s), and www.sbc.sc took (14.68s) on Airtel.
- On live web page testing for browsing, www.shein.com took (8.03s), www.nbs.gov.sc took (9.80s), and www.sbc.sc took (10.58s) on CWS.
- On static browsing, Kepler Webpage took (4.21s), and Kepler Mobile took (2.14s) on Airtel.
- On static browsing, Kepler Webpage took (5.42s), and Kepler Mobile took (2.71s) on CWS.
- YouTube average resolution in Airtel is (970.17) pixels.
- YouTube average resolution in CWS is (1009.26) pixels.

Phase-2

3G Preferred Data Test Findings:

- Airtel SFTP DL is (5.15 Mbps), while SFTP UL is (1.79 Mbps), CWS SFTP DL is (3.21 Mbps), while SFTP UL is (1.32 Mbps)
- Airtel HTTP DL is (5.22 Mbps), HTTP Capacity DL is (7.30 Mbps) ,HTTP UL is (2.58 Mbps) , and HTTP Capacity UL is (5.34 Mbps).
- CWS HTTP DL is (3.56 Mbps), HTTP Capacity DL is (7.66 Mbps) ,HTTP UL is (2.23 Mbps) , and HTTP Capacity UL is (4.59 Mbps).
- On live web page testing for browsing, www.shein.com took (11.06s), www.nbs.gov.sc took (12.00s), and www.sbc.sc took (12.35s) on Airtel.
- On live web page testing for browsing, www.shein.com took (7.08s), www.nbs.gov.sc took (7.93s), and www.sbc.sc took (12.44s) on CWS.
- On static browsing, Kepler Webpage took (3.57s), and Kepler Mobile took (1.58s) on Airtel.
- On static browsing, Kepler Webpage took (6.55s), and Kepler Mobile took (2.58s) on CWS.
- YouTube average resolution in Airtel is (1016.69) pixels.
- YouTube average resolution in CWS is (1064.40) pixels.

| Short Call | |
|-----------------------------|------------|
| Call Duration | 10 Seconds |
| Setup and Release phase | 30 seconds |
| Minimum pause between calls | 30 seconds |

| Long Call | |
|-------------------------|-------------|
| Call Duration | 120 Seconds |
| Setup and Release phase | 30 seconds |
| Minimum between calls | 30 seconds |

| DATA | Test Type and Timeout | Technology 3G Preferred | Technology 4G Preferred |
|--|--|--|--|
| POP always on. ICMP PAYLOAD PING 800 BYTES | | | |
| 1 | FILE TRANSFER DOWNLOAD 135s | FTP DL (3MB) wait 10s | FTP DL (5MB) wait 10s |
| 2 | FILE TRANSFER UPLOAD 135s | FTP UL (1MB) wait 10s | FTP UL (3MB) wait 10s |
| 3 | FILE TRANSFER DOWNLOAD 135s | HTTP Get (3MB) wait 10s | HTTP Get (5MB) wait 10s |
| 4 | FILE TRANSFER UPLOAD 135s | HTTP Put (1MB) wait 10s | HTTP Put (3MB) wait 10s |
| 5 | ICMP PING 32 BYTES | Ping (32 bytes) *5 wait 10s | Ping (32 bytes) *5 wait 10s |
| 6 | YOUTUBE STREAMING 95 seconds | Video: YouTube 60sec wait 10s | Video: YouTube 60sec wait 10s |
| 7 | KEPLER WEB BROWSING 45s | HTTPS Browsing: Kepler wait 10s | HTTPS Browsing: Kepler wait 10s |
| 8 | LIVE WEB BROWSING 45s | www.shein.com, www.nbs.gov.sc, www.sbc.sc wait 10s | www.shein.com, www.nbs.gov.sc, www.sbc.sc wait 10s |
| 9 | KEPLER MOBILE WEB BROWSING 45s | HTTPS Browsing: Kepler Mobile wait 10s | HTTPS Browsing: Kepler Mobile wait 10s |
| 10 | ICMP PING 32 BYTES | Ping (32 bytes) 5 www.google.com wait 10s | Ping (32 bytes) 5 www.google.com wait 10s |
| 11 | FILE TRANSFER-CAPACITY DOWNLOAD 10s fixed duration | HTTP Get (500MB) Multiple files wait 10s | HTTP Get (500MB) Multiple files wait 10s |
| 12 | FILE TRANSFER-CAPACITY UPLOAD 10s fixed duration | HTTP Put (500MB)-Multiple Files wait 10s | HTTP Put (500MB)-Multiple Files wait 10s |

VOICE TEST KPI STATISTICS (Short Call)

Phase-1

| Short Call Statistics | | |
|-----------------------|---------------|------------|
| Short Call Scenario | Operator 1 | Operator 2 |
| Voice KPIs | Airtel | CWS |
| Call Attempt | 129 | 127 |
| Call Failed | 1 | 3 |
| Call Connected | 128 | 124 |
| CSSR[%] | 99.22 | 97.64 |
| USCSR[%] | 0.78 | 2.36 |
| CST [s] Alerting | 6.72 | 7.75 |
| CST [s]Connected | 6.95 | 7.94 |

CSSR= Call Setup Success rate
 USCSR=Unsuccessful call setup ratio
 CST=Call setup time
 Call Setup Success Ratio >97%
 CRR= Call retainability ratio
 DCR=Dropped-call rate
 MOS=Mean Opinion Score
 Drop Call Ratio<2

| Call Setup Time (s) | Operators | | Rank | |
|--|-----------|------|--------|-----|
| | Airtel | CWS | Airtel | CWS |
| Overall CST (until ringing/alerting) | 6.72 | 7.75 | 1 | 2 |
| CS calls CST (until ringing/alerting) | 7.19 | 8.99 | 1 | 2 |
| CSFB calls CST (until ringing/alerting) | 6.70 | 7.71 | 1 | 2 |
| Overall CST (until Connect/Connect Acknowledge) | 6.95 | 7.94 | 1 | 2 |
| CS calls CST (until Connect/Connect Acknowledge) | 7.55 | 9.20 | 1 | 2 |
| CSFB calls CST (until Connect/Connect Acknowledge) | 6.94 | 7.90 | 1 | 2 |

Phase-2

| Short Call Statistics | | |
|-----------------------|---------------|------------|
| Short Call Scenario | Operator 1 | Operator 2 |
| Voice KPIs | Airtel | CWS |
| Call Attempt | 97.0 | 95.0 |
| Call Failed | 1.0 | 3.0 |
| Call Connected | 96.0 | 92.0 |
| CSSR[%] | 98.97 | 96.84 |
| USCSR[%] | 1.03 | 3.16 |
| CST [s] Alerting | 6.55 | 7.45 |
| CST [s]Connected | 6.82 | 7.65 |

| Call Setup Time (s) | Operators | | Rank | |
|--|-----------|-------|--------|-----|
| | Airtel | CWS | Airtel | CWS |
| Overall CST (until ringing/alerting) | 6.55 | 7.45 | 1 | 2 |
| CS calls CST (until ringing/alerting) | 7.06 | 10.47 | 1 | 2 |
| CSFB calls CST (until ringing/alerting) | 6.52 | 7.31 | 1 | 2 |
| Overall CST (until Connect/Connect Acknowledge) | 6.82 | 7.65 | 1 | 2 |
| CS calls CST (until Connect/Connect Acknowledge) | 7.35 | 10.68 | 1 | 2 |
| CSFB calls CST (until Connect/Connect Acknowledge) | 6.80 | 7.51 | 1 | 2 |

Phase-1

| Long Call Statistics | | | | |
|----------------------|-------------------|----------------|------------------|---------------|
| Long Call Scenario | Operator 1 | | Operator 2 | |
| Voice KPIs | Airtel | CWS | | |
| Call Connected | 35 | 34 | | |
| Call Dropped | 0 | 0 | | |
| Call Completed | 35 | 34 | | |
| CRR[%] | 100.00 | 100.00 | | |
| DCR[%] | 0.00 | 0.00 | | |
| MOS | 3.10 | 3.30 | | |
| | Airtel short call | CWS short call | Airtel long call | CWS long call |
| CSFB Calls | 125 | 123 | 32 | 34 |
| CS Calls | 4 | 4 | 3 | 0 |
| Handover Statistics | | Airtel MO | CWS MO | |
| Handover Attempt | | 39 | 102 | |
| Handover Failure | | 1 | 0 | |
| Handover Success | | 38 | 102 | |
| HOSR % | | 97.44 | 100.00 | |

Phase-2

| Long Call Statistics | | | | |
|----------------------|-------------------|----------------|------------------|---------------|
| Long Call Scenario | Operator 1 | | Operator 2 | |
| Voice KPIs | Airtel | CWS | | |
| Call Connected | 26 | 27 | | |
| Call Dropped | 1 | 1 | | |
| Call Completed | 25 | 26 | | |
| CRR[%] | 96.15 | 96.30 | | |
| DCR[%] | 3.85 | 3.70 | | |
| MOS | 3.10 | 3.37 | | |
| | Airtel short call | CWS short call | Airtel long call | CWS long call |
| CSFB Calls | 90 | 91 | 25 | 26 |
| CS Calls | 7 | 4 | 1 | 1 |
| Handover Statistics | | Airtel MO | CWS MO | |
| Handover Attempt | | 41 | 111 | |
| Handover Failure | | 1 | 0 | |
| Handover Success | | 40 | 111 | |
| HOSR % | | 97.56 | 100.00 | |

DATA TEST KPI STATISTICS(4G Preferred)

| DATA Scenario | | Phase-1 | | | | Phase-2 | | | |
|---------------|-------------------------------------|-----------|--------|------------------|---------------|-----------|---------|------------------|---------------|
| | | Airtel 4G | CWS 4G | Airtel 4G (Rank) | CWS 4G (Rank) | Airtel 4G | CWS 4G | Airtel 4G (Rank) | CWS 4G (Rank) |
| FILE TRANSFER | SFTP DL (Mbps) | 11.62 | 5.08 | 1 | 2 | 11.59 | 6.69 | 1 | 2 |
| | SFTP UL(Mbps) | 5.82 | 3.22 | 1 | 2 | 6.86 | 3.94 | 1 | 2 |
| | HTTP DL(Mbps) | 16.11 | 6.55 | 1 | 2 | 19.37 | 8.26 | 1 | 2 |
| | HTTP UL(Mbps) | 10.67 | 6.38 | 1 | 2 | 11.01 | 8.09 | 1 | 2 |
| | HTTP Capacity DL(Mbps) | 33.34 | 28 | 1 | 2 | 53.33 | 20.69 | 1 | 2 |
| | HTTP Capacity UL(Mbps) | 19.44 | 27.14 | 2 | 1 | 22.03 | 29.80 | 2 | 1 |
| BROWSER | Overall Browser DL Time (s) | 10.31 | 11.04 | 1 | 2 | 9.92 | 9.88 | 2 | 1 |
| | Kepler Webpage DL Time (s) | 4.58 | 5.49 | 1 | 2 | 4.63 | 4.85 | 1 | 2 |
| | Mobile Kepler Webpage DL Time (s) | 1.94 | 3.09 | 1 | 2 | 1.68 | 2.91 | 1 | 2 |
| | www.shein.com Webpage DL Time (s) | 7.06 | 10.33 | 1 | 2 | 7.12 | 6.51 | 2 | 1 |
| | www.nbs.gov.sc Webpage DL Time (s) | 18.66 | 16.52 | 2 | 1 | 17.94 | 17.59 | 2 | 1 |
| | www.sbc.sc Webpage DL Time (s) | 20.6 | 20.74 | 1 | 2 | 18.83 | 17.18 | 2 | 1 |
| LATENCY | Avg Latency (ms) | 270.63 | 289.94 | 1 | 2 | 269.94 | 303.88 | 1 | 2 |
| | Median Latency (ms) | 243 | 232 | 2 | 1 | 137 | 274 | 1 | 2 |
| YOUTUBE | YouTube Access Time (s) | 6.08 | 2.39 | 2 | 1 | 5.38 | 1.69 | 2 | 1 |
| | YouTube Average Resolution (pixels) | 1024.91 | 985.97 | 1 | 2 | 1080.00 | 1069.51 | 1 | 2 |
| | YouTube Success Ratio [%] | 100.00 | 100.00 | 1 | 1 | 100.00 | 100.00 | 1 | 1 |

Phase-1

| Test Type | Status | Airtel 4G | CWS 4G | Airtel 4G (%) | CWS 4G (%) |
|------------------|---------|-----------|--------|---------------|------------|
| SFTP DL | Success | 20 | 15 | 100.00 | 93.75 |
| | Failure | 0 | 1 | 0.00 | 6.25 |
| SFTP UL | Success | 20 | 17 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| HTTP DL | Success | 20 | 16 | 100.00 | 94.12 |
| | Failure | 0 | 1 | 0.00 | 5.88 |
| HTTP UL | Success | 18 | 17 | 90.00 | 100.00 |
| | Failure | 2 | 0 | 10.00 | 0.00 |
| HTTP Capacity DL | Success | 18 | 16 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| HTTP Capacity UL | Success | 17 | 14 | 94.44 | 87.50 |
| | Failure | 1 | 2 | 5.56 | 12.50 |

Phase-2

| Test Type | Status | Airtel 4G | CWS 4G | Airtel 4G (%) | CWS 4G (%) |
|------------------|---------|-----------|--------|---------------|------------|
| SFTP DL | Success | 16 | 16 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| SFTP UL | Success | 16 | 16 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| HTTP DL | Success | 16 | 16 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| HTTP UL | Success | 16 | 16 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| HTTP Capacity DL | Success | 14 | 14 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| HTTP Capacity UL | Success | 14 | 13 | 100.00 | 92.86 |
| | Failure | 0 | 1 | 0.00 | 7.14 |

Phase-1

| Web Page | Status | Airtel 4G | CWS 4G | Airtel 4G (%) | CWS 4G (%) |
|----------------|---------|-----------|--------|---------------|------------|
| Kepler | Success | 19 | 17 | 95.00 | 100.00 |
| | Failure | 1 | 0 | 5.00 | 0.00 |
| Mobile Kepler | Success | 18 | 16 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| www.shein.com | Success | 20 | 16 | 100.00 | 94.12 |
| | Failure | 0 | 1 | 0.00 | 5.88 |
| www.nbs.gov.sc | Success | 18 | 16 | 90.00 | 100.00 |
| | Failure | 2 | 0 | 10.00 | 0.00 |
| www.sbc.sc | Success | 17 | 15 | 89.47 | 93.75 |
| | Failure | 2 | 1 | 10.53 | 6.25 |

Phase-2

| Web Page | Status | Airtel 4G | CWS 4G | Airtel 4G (%) | CWS 4G (%) |
|----------------|---------|-----------|--------|---------------|------------|
| Kepler | Success | 15 | 13 | 93.75 | 92.86 |
| | Failure | 1 | 1 | 6.25 | 7.14 |
| Mobile Kepler | Success | 14 | 14 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| www.shein.com | Success | 15 | 14 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| www.nbs.gov.sc | Success | 14 | 14 | 93.33 | 100.00 |
| | Failure | 1 | 0 | 6.67 | 0.00 |
| www.sbc.sc | Success | 14 | 14 | 93.33 | 100.00 |
| | Failure | 1 | 0 | 6.67 | 0.00 |

Phase-1

| | Latency KPIs | Airtel 4G | CWS 4G |
|-----------------|--|-----------|--------|
| Overall Latency | Sample Count [32 bytes] | 38 | 31 |
| | Average Latency [ms] | 267.50 | 257.16 |
| | Median Latency [ms] | 252 | 191 |
| | Ping session status: Successful | 38 | 31 |
| | Ping session status: Failed [Socket error] | 0 | 0 |
| | Ping session status: Failed [Protocol error timeout] | 0 | 1 |
| | Packet Loss<1% | 0.00 | 3.13 |
| www.google.com | Average Latency [ms] | 413.67 | 175.44 |
| | Median Latency [ms] | 410 | 153 |
| | Ping session status: Successful | 18 | 16 |
| | Ping session status: Failed [Socket error] | 0 | 0 |
| | Ping session status: Failed [Protocol error timeout] | 0 | 0 |
| | Packet Loss<1% | 0.00 | 0.00 |
| 102.133.176.104 | Average Latency [ms] | 135.95 | 344.33 |
| | Median Latency [ms] | 122 | 329 |
| | Ping session status: Successful | 20 | 15 |
| | Ping session status: Failed [Socket error] | 0 | 0 |
| | Ping session status: Failed [Protocol error timeout] | 0 | 1 |
| | Packet Loss<1% | 0.00 | 6.25 |

Phase-2

| | Latency KPIs | Airtel 4G | CWS 4G |
|-----------------|--|-----------|--------|
| Overall Latency | Sample Count [32 bytes] | 29 | 30 |
| | Average Latency [ms] | 265.79 | 296.43 |
| | Median Latency [ms] | 132 | 257 |
| | Ping session status: Successful | 29 | 30 |
| | Ping session status: Failed [Socket error] | 0 | 0 |
| | Ping session status: Failed [Protocol error timeout] | 1 | 0 |
| | Packet Loss<1% | 3.33 | 0.00 |
| www.google.com | Average Latency [ms] | 422.21 | 248.36 |
| | Median Latency [ms] | 418 | 195 |
| | Ping session status: Successful | 14 | 14 |
| | Ping session status: Failed [Socket error] | 0 | 0 |
| | Ping session status: Failed [Protocol error timeout] | 0 | 0 |
| | Packet Loss<1% | 0.00 | 0.00 |
| 102.133.176.104 | Average Latency [ms] | 119.80 | 338.50 |
| | Median Latency [ms] | 121 | 308 |
| | Ping session status: Successful | 15 | 16 |
| | Ping session status: Failed [Socket error] | 0 | 0 |
| | Ping session status: Failed [Protocol error timeout] | 1 | 0 |
| | Packet Loss<1% | 6.25 | 0.00 |

Phase-1

| LTE YOUTUBE Success Ratio | | |
|-------------------------------------|-----------|--------|
| KPIs | Airtel 4G | CWS 4G |
| Attempt(Count) | 20 | 17 |
| Success(Count) | 20 | 17 |
| Failure(Count) | 0 | 0 |
| YouTube Access Time (s) | 6.08 | 2.39 |
| YouTube Average Resolution (pixels) | 1024.91 | 985.97 |
| YouTube Success Ratio [%] | 100.00 | 100.00 |

Phase-2

| LTE YOUTUBE Success Ratio | | |
|-------------------------------------|-----------|---------|
| KPIs | Airtel 4G | CWS 4G |
| Attempt(Count) | 16 | 14 |
| Success(Count) | 16 | 14 |
| Failure(Count) | 0 | 0 |
| YouTube Access Time (s) | 5.38 | 1.69 |
| YouTube Average Resolution (pixels) | 1080.00 | 1069.51 |
| YouTube Success Ratio [%] | 100.00 | 100.00 |

DATA TEST KPI STATISTICS (3G Preferred)

| DATA Scenario | | Phase-1 | | | | Phase-2 | | | |
|---------------|-------------------------------------|-----------|---------|------------------|---------------|-----------|---------|------------------|---------------|
| | | Airtel 3G | CWS 3G | Airtel 3G (Rank) | CWS 3G (Rank) | Airtel 3G | CWS 3G | Airtel 3G (Rank) | CWS 3G (Rank) |
| FILE TRANSFER | SFTP DL (Mbps) | 5.15 | 3.17 | 1 | 2 | 5.13 | 3.21 | 1 | 2 |
| | SFTP UL(Mbps) | 1.82 | 1.2 | 1 | 2 | 1.79 | 1.32 | 1 | 2 |
| | HTTP DL(Mbps) | 4.98 | 2.97 | 1 | 2 | 5.22 | 3.56 | 1 | 2 |
| | HTTP UL(Mbps) | 2.45 | 2.07 | 1 | 2 | 2.58 | 2.23 | 1 | 2 |
| | HTTP Capacity DL(Mbps) | 6.86 | 7.97 | 2 | 1 | 7.30 | 7.66 | 2 | 1 |
| | HTTP Capacity UL(Mbps) | 5.1 | 4.67 | 1 | 2 | 5.34 | 4.59 | 1 | 2 |
| BROWSER | Overall Browser DL Time (s) | 8.45 | 7.22 | 2 | 1 | 8.24 | 7.31 | 2 | 1 |
| | Kepler Webpage DL Time (s) | 4.21 | 5.42 | 1 | 2 | 3.57 | 6.55 | 1 | 2 |
| | Mobile Kepler Webpage DL Time (s) | 2.14 | 2.71 | 1 | 2 | 1.58 | 2.58 | 1 | 2 |
| | www.shein.com Webpage DL Time (s) | 10.18 | 8.03 | 2 | 1 | 11.06 | 7.08 | 2 | 1 |
| | www.nbs.gov.sc Webpage DL Time (s) | 11.79 | 9.8 | 2 | 1 | 12.00 | 7.93 | 2 | 1 |
| | www.sbc.sc Webpage DL Time (s) | 14.68 | 10.58 | 2 | 1 | 12.35 | 12.44 | 1 | 2 |
| LATENCY | Avg Latency (ms) | 280.21 | 196.99 | 2 | 1 | 272.30 | 219.50 | 2 | 1 |
| | Median Latency (ms) | 402 | 192 | 2 | 1 | 246 | 198 | 2 | 1 |
| YOUTUBE | YouTube Access Time (s) | 5.24 | 3.06 | 2 | 1 | 5.38 | 2.86 | 2 | 1 |
| | YouTube Average Resolution (pixels) | 970.17 | 1009.26 | 2 | 1 | 1016.69 | 1064.40 | 2 | 1 |
| | YouTube Success Ratio [%] | 100.00 | 82.35 | 1 | 2 | 92.31 | 92.31 | 1 | 1 |

Phase-1

| Test Type | Status | Airtel 3G | CWS 3G | Airtel 3G (%) | CWS 3G (%) |
|------------------|---------|-----------|--------|---------------|------------|
| SFTP DL | Success | 15 | 15 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| SFTP UL | Success | 15 | 15 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| HTTP DL | Success | 17 | 16 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| HTTP UL | Success | 17 | 15 | 100.00 | 88.24 |
| | Failure | 0 | 2 | 0.00 | 11.76 |
| HTTP Capacity DL | Success | 16 | 15 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| HTTP Capacity UL | Success | 16 | 14 | 100.00 | 93.33 |
| | Failure | 0 | 1 | 0.00 | 6.67 |

Phase-2

| Test Type | Status | Airtel 3G | CWS 3G | Airtel 3G (%) | CWS 3G (%) |
|------------------|---------|-----------|--------|---------------|------------|
| SFTP DL | Success | 11 | 11 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| SFTP UL | Success | 12 | 10 | 100.00 | 90.91 |
| | Failure | 0 | 1 | 0.00 | 9.09 |
| HTTP DL | Success | 12 | 10 | 100.00 | 90.91 |
| | Failure | 0 | 1 | 0.00 | 9.09 |
| HTTP UL | Success | 12 | 12 | 92.31 | 92.31 |
| | Failure | 1 | 1 | 7.69 | 7.69 |
| HTTP Capacity DL | Success | 11 | 11 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| HTTP Capacity UL | Success | 11 | 10 | 100.00 | 90.91 |
| | Failure | 0 | 1 | 0.00 | 9.09 |

Phase-1

| Web Page | Status | Airtel 3G | CWS 3G | Airtel 3G(%) | CWS 3G (%) |
|----------------|---------|-----------|--------|--------------|------------|
| Kepler | Success | 15 | 14 | 88.24 | 87.50 |
| | Failure | 2 | 2 | 11.76 | 12.50 |
| Mobile Kepler | Success | 17 | 15 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| www.shein.com | Success | 16 | 12 | 94.12 | 75.00 |
| | Failure | 1 | 4 | 5.88 | 25.00 |
| www.nbs.gov.sc | Success | 15 | 14 | 93.75 | 87.50 |
| | Failure | 1 | 2 | 6.25 | 12.50 |
| www.sbc.sc | Success | 15 | 14 | 88.24 | 93.33 |
| | Failure | 2 | 1 | 11.76 | 6.67 |

Phase-2

| Web Page | Status | Airtel 3G | CWS 3G | Airtel 3G(%) | CWS 3G (%) |
|----------------|---------|-----------|--------|--------------|------------|
| Kepler | Success | 10 | 11 | 90.91 | 91.67 |
| | Failure | 1 | 1 | 9.09 | 8.33 |
| Mobile Kepler | Success | 11 | 11 | 100.00 | 91.67 |
| | Failure | 0 | 1 | 0.00 | 8.33 |
| www.shein.com | Success | 12 | 11 | 100.00 | 100.00 |
| | Failure | 0 | 0 | 0.00 | 0.00 |
| www.nbs.gov.sc | Success | 12 | 11 | 100.00 | 91.67 |
| | Failure | 0 | 1 | 0.00 | 8.33 |
| www.sbc.sc | Success | 10 | 11 | 90.91 | 91.67 |
| | Failure | 1 | 1 | 9.09 | 8.33 |

Phase-1

| | Latency KPIs | Airtel 3G | CWS 3G |
|-----------------|--|-----------|--------|
| Overall Latency | Sample Count [32 bytes] | 33 | 28 |
| | Average Latency [ms] | 286.33 | 210.00 |
| | Median Latency [ms] | 406 | 162 |
| | Ping session status: Successful | 33 | 28 |
| | Ping session status: Failed [Socket error] | 0 | 0 |
| | Ping session status: Failed [Protocol error timeout] | 1 | 1 |
| | Packet Loss<1% | 2.94 | 3.45 |
| www.google.com | Average Latency [ms] | 416.12 | 143.80 |
| | Median Latency [ms] | 413 | 140 |
| | Ping session status: Successful | 17 | 15 |
| | Ping session status: Failed [Socket error] | 0 | 0 |
| | Ping session status: Failed [Protocol error timeout] | 0 | 0 |
| | Packet Loss<1% | 0.00 | 0.00 |
| 102.133.176.104 | Average Latency [ms] | 148.44 | 286.38 |
| | Median Latency [ms] | 122 | 210 |
| | Ping session status: Successful | 16 | 13 |
| | Ping session status: Failed [Socket error] | 0 | 0 |
| | Ping session status: Failed [Protocol error timeout] | 1 | 1 |
| | Packet Loss<1% | 5.88 | 7.14 |

Phase-2

| | Latency KPIs | Airtel 3G | CWS 3G |
|-----------------|--|-----------|--------|
| Overall Latency | Sample Count [32 bytes] | 23 | 21 |
| | Average Latency [ms] | 266.91 | 209.43 |
| | Median Latency [ms] | 139 | 197 |
| | Ping session status: Successful | 23 | 21 |
| | Ping session status: Failed [Socket error] | 0 | 0 |
| | Ping session status: Failed [Protocol error timeout] | 0 | 1 |
| | Packet Loss<1% | 0.00 | 4.55 |
| www.google.com | Average Latency [ms] | 423.82 | 153.18 |
| | Median Latency [ms] | 420 | 139 |
| | Ping session status: Successful | 11 | 11 |
| | Ping session status: Failed [Socket error] | 0 | 0 |
| | Ping session status: Failed [Protocol error timeout] | 0 | 0 |
| | Packet Loss<1% | 0.00 | 0.00 |
| 102.133.176.104 | Average Latency [ms] | 123.08 | 271.30 |
| | Median Latency [ms] | 120 | 207 |
| | Ping session status: Successful | 12 | 10 |
| | Ping session status: Failed [Socket error] | 0 | 0 |
| | Ping session status: Failed [Protocol error timeout] | 0 | 1 |
| | Packet Loss<1% | 0.00 | 9.09 |

Phase-1

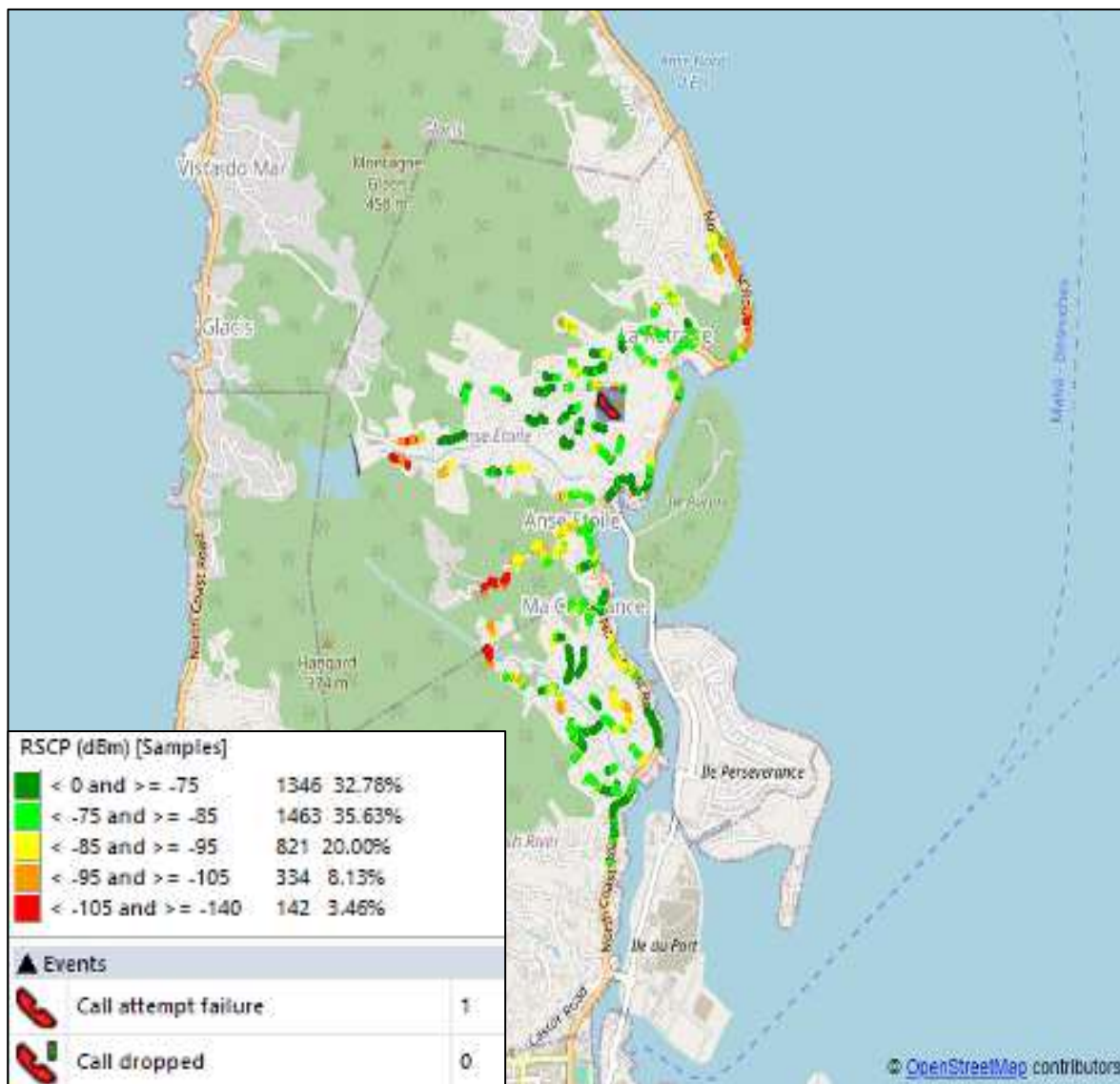
| UMTS YOUTUBE Success Ratio | | |
|-------------------------------------|-----------|---------|
| KPIs | Airtel 3G | CWS 3G |
| Attempt(Count) | 17 | 17 |
| Success(Count) | 17 | 15 |
| Failure(Count) | 0 | 2 |
| YouTube Access Time (s) | 5.24 | 3.06 |
| YouTube Average Resolution (pixels) | 970.17 | 1009.26 |
| YouTube Success Ratio [%] | 100.00 | 82.35 |

Phase-2

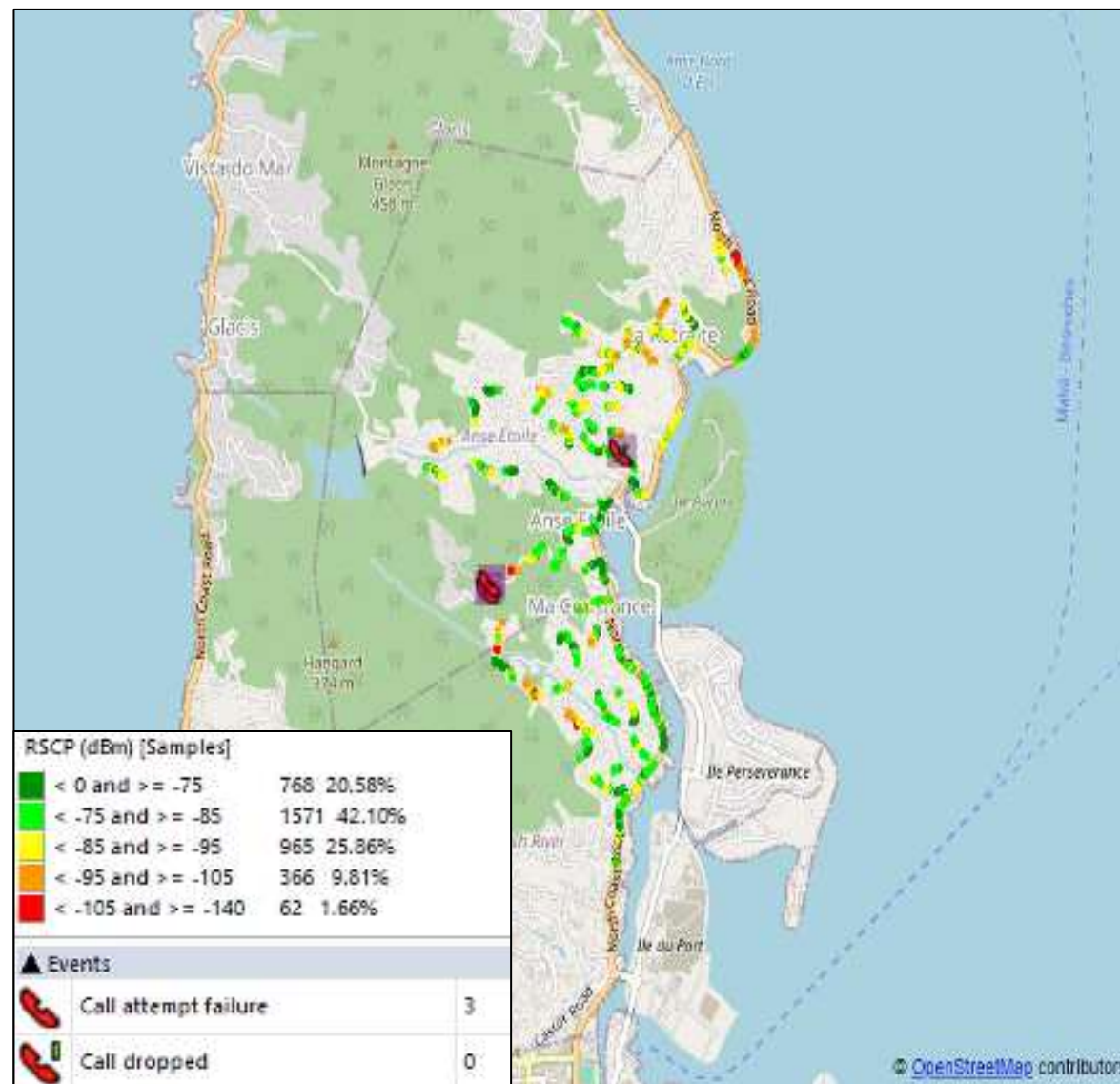
| UMTS YOUTUBE Success Ratio | | |
|-------------------------------------|-----------|---------|
| KPIs | Airtel 3G | CWS 3G |
| Attempt(Count) | 13 | 13 |
| Success(Count) | 12 | 12 |
| Failure(Count) | 1 | 1 |
| YouTube Access Time (s) | 5.38 | 2.86 |
| YouTube Average Resolution (pixels) | 1016.69 | 1064.40 |
| YouTube Success Ratio [%] | 92.31 | 92.31 |

Voice Call Events

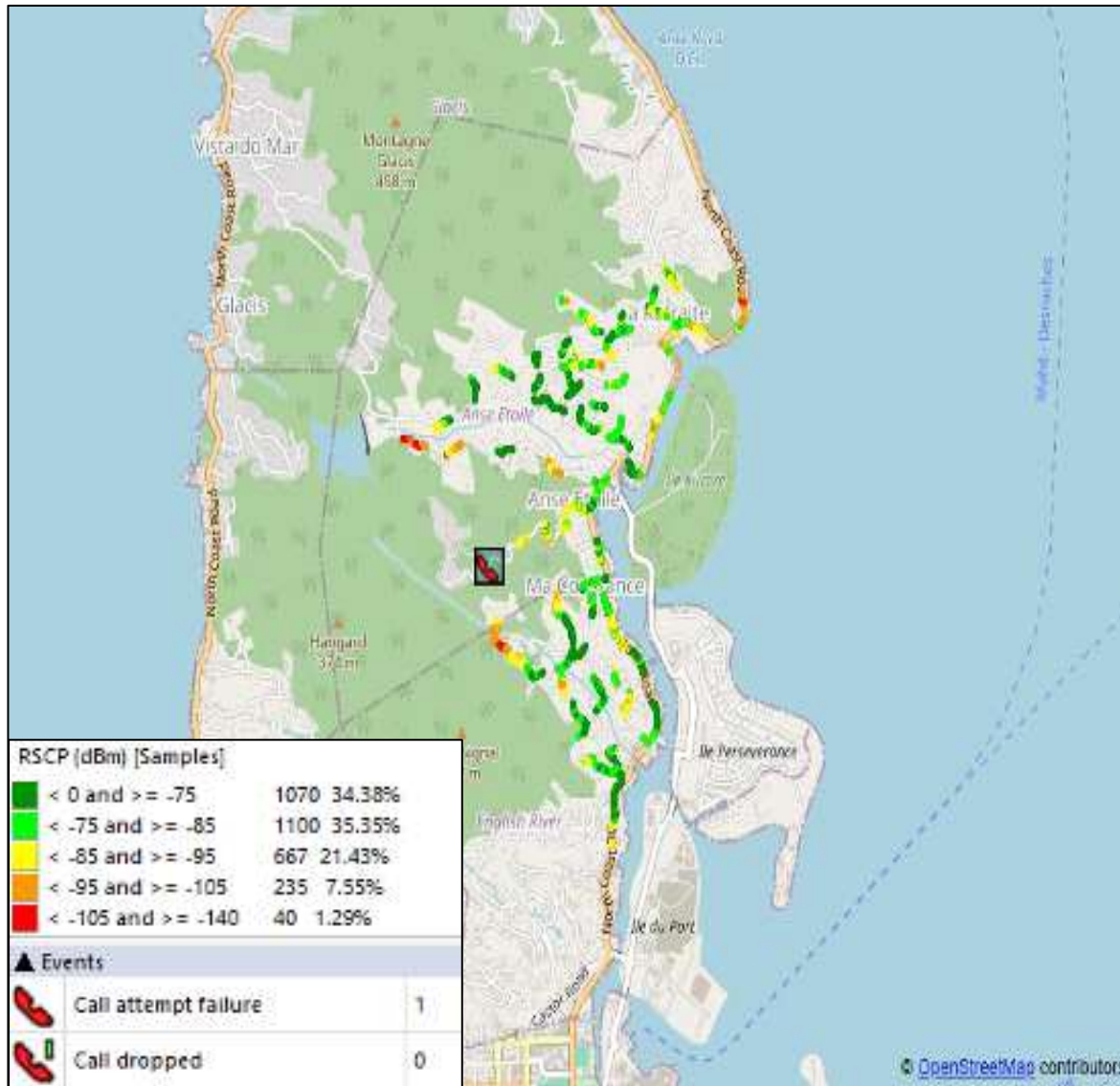
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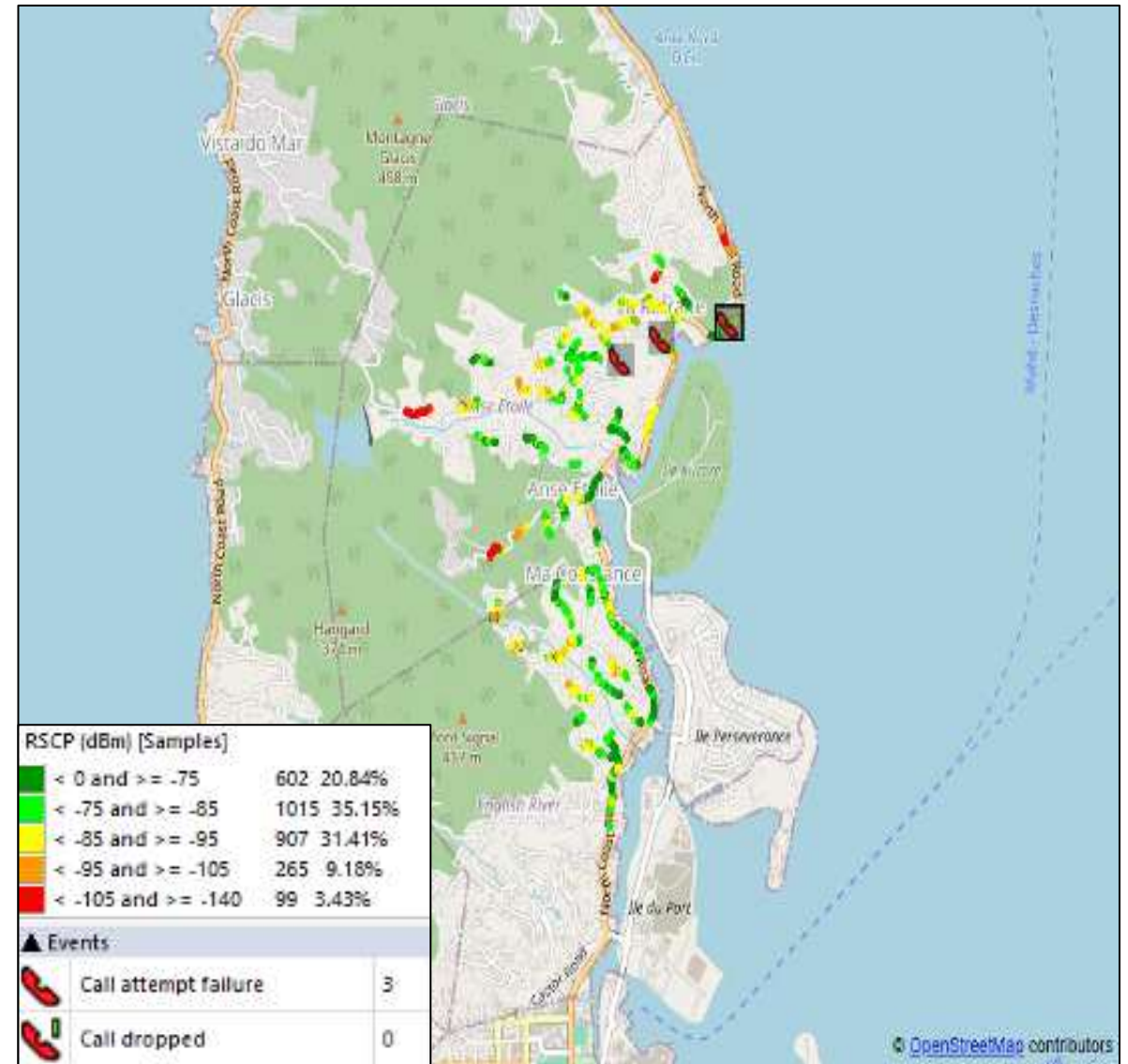
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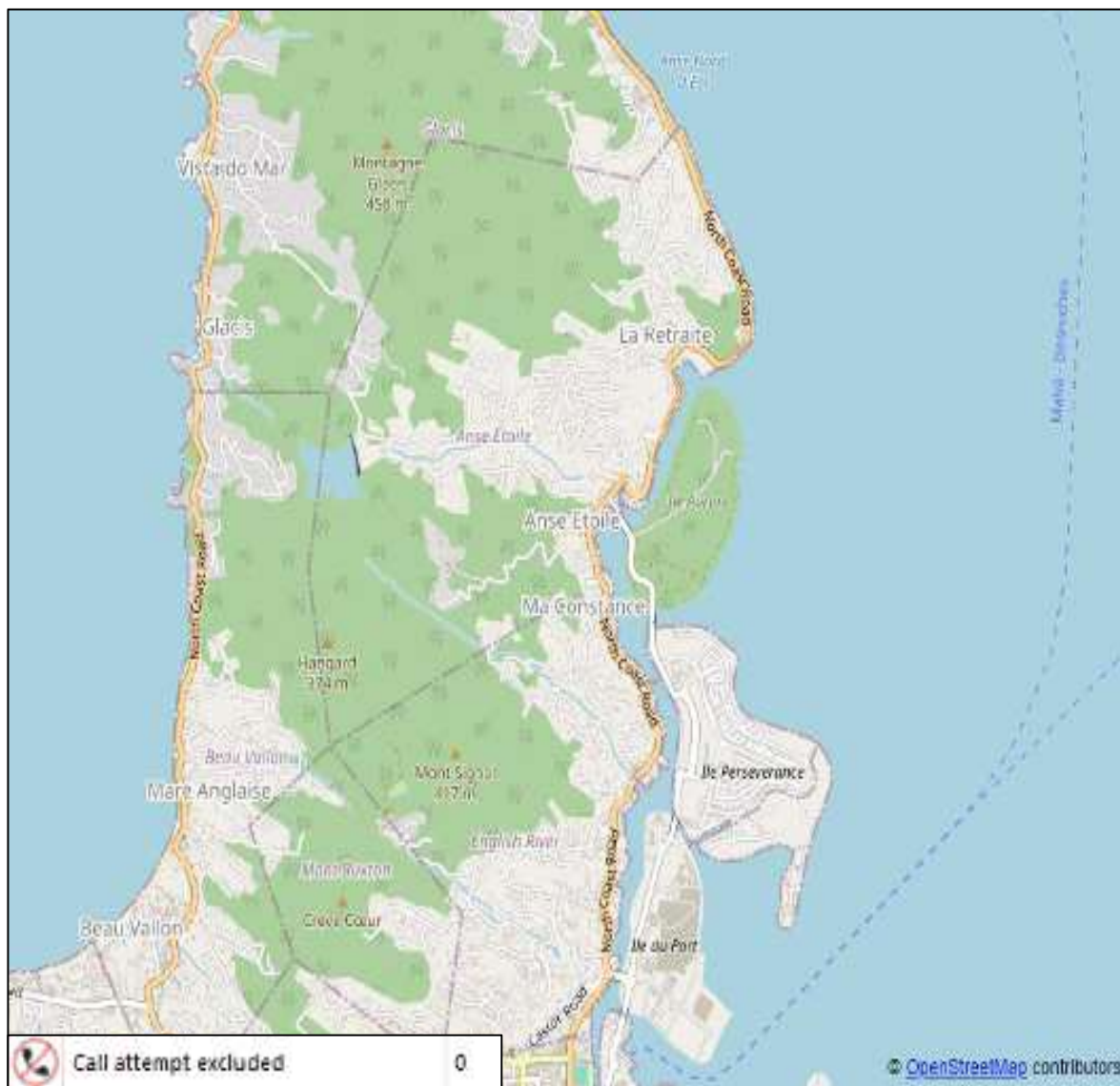
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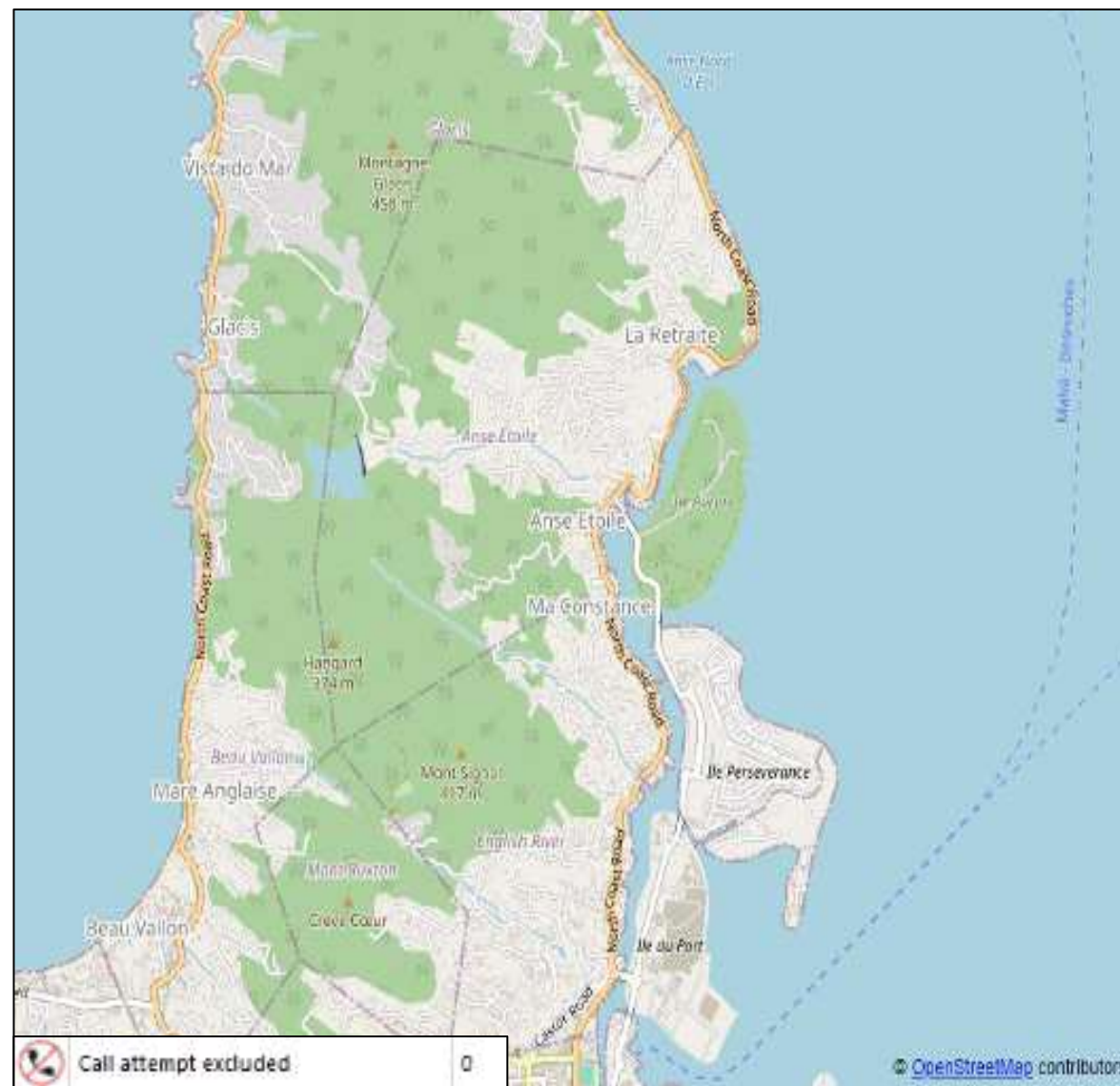
CWS SC MO



Airtel SC MO

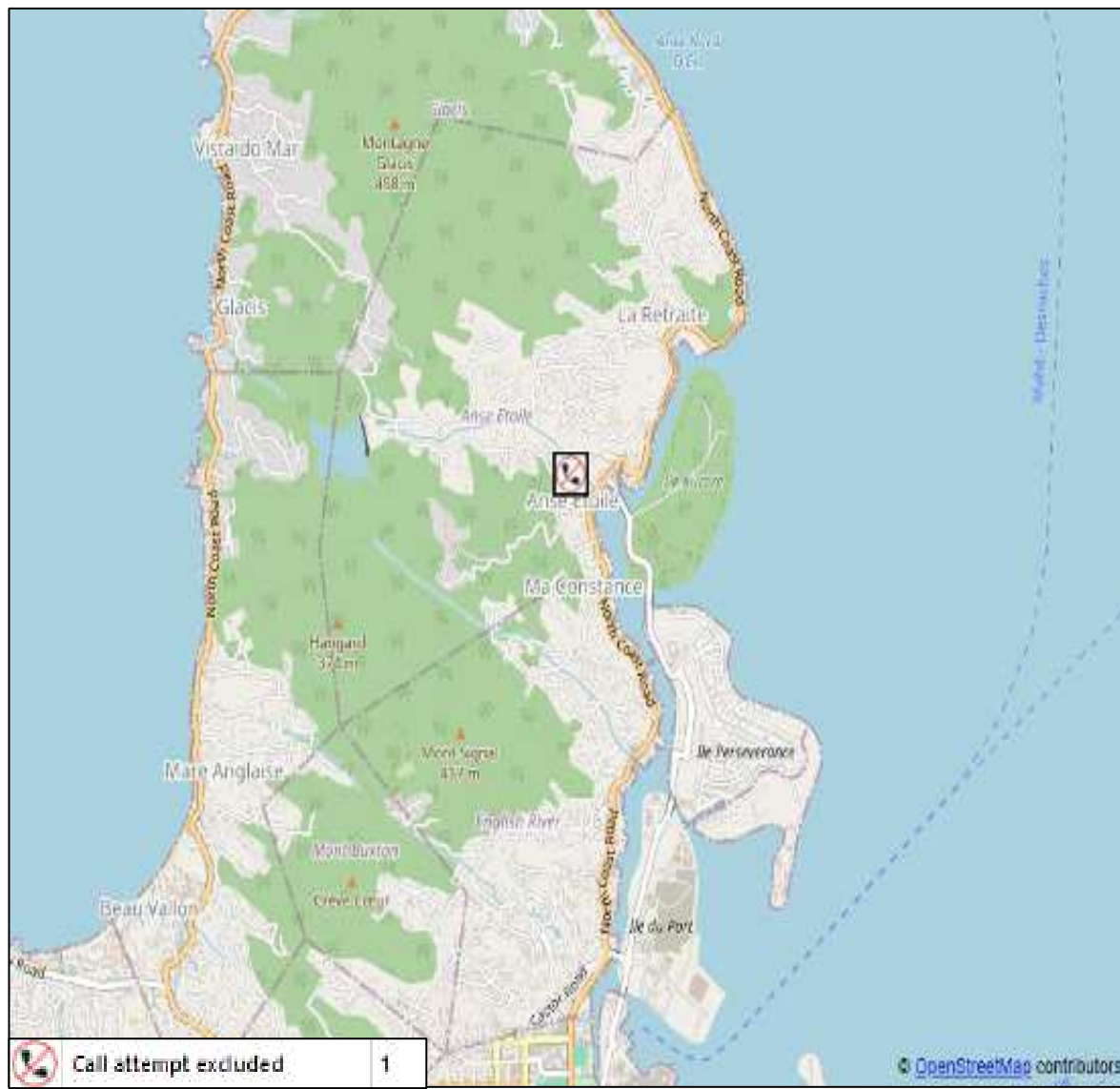
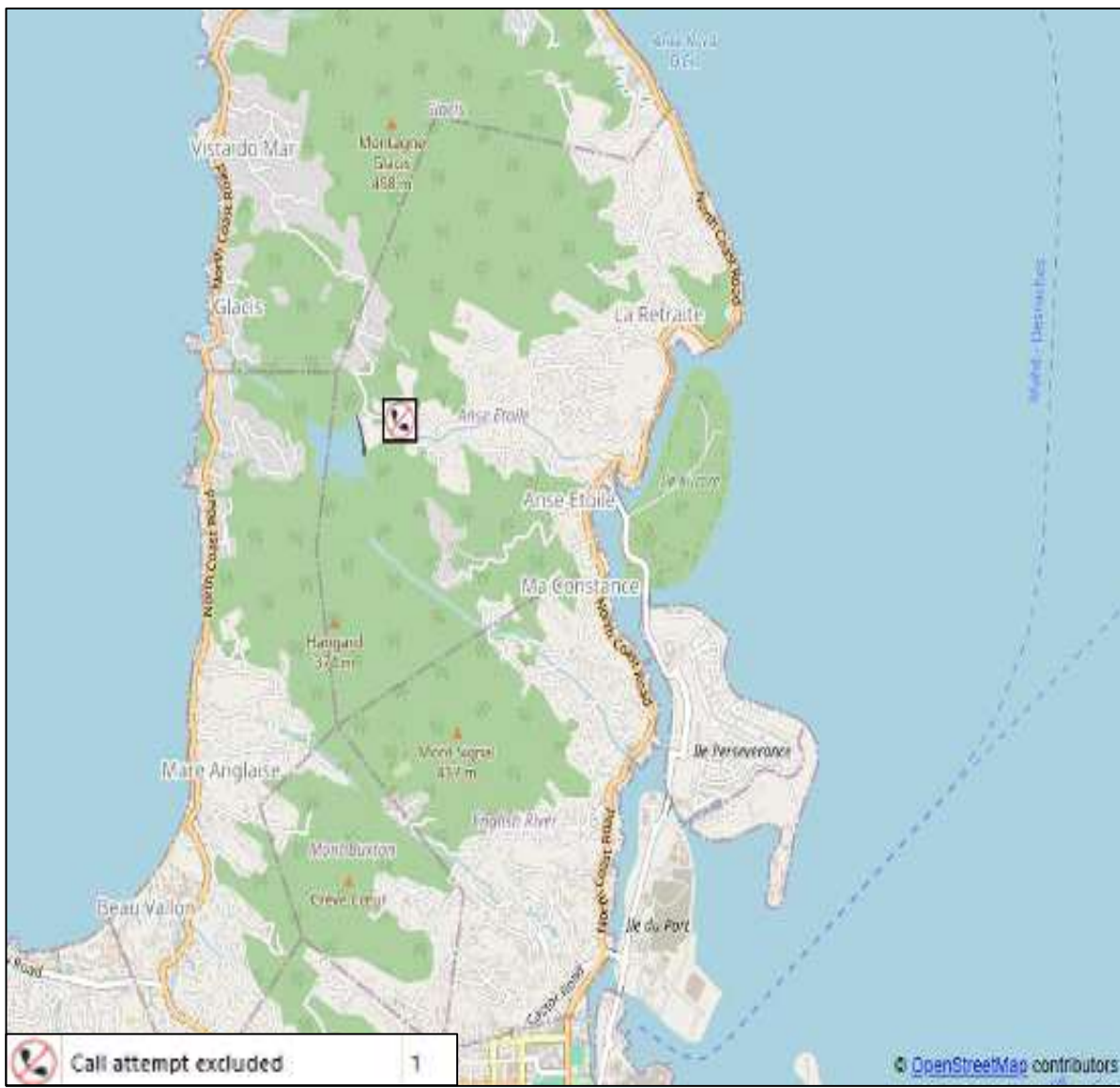


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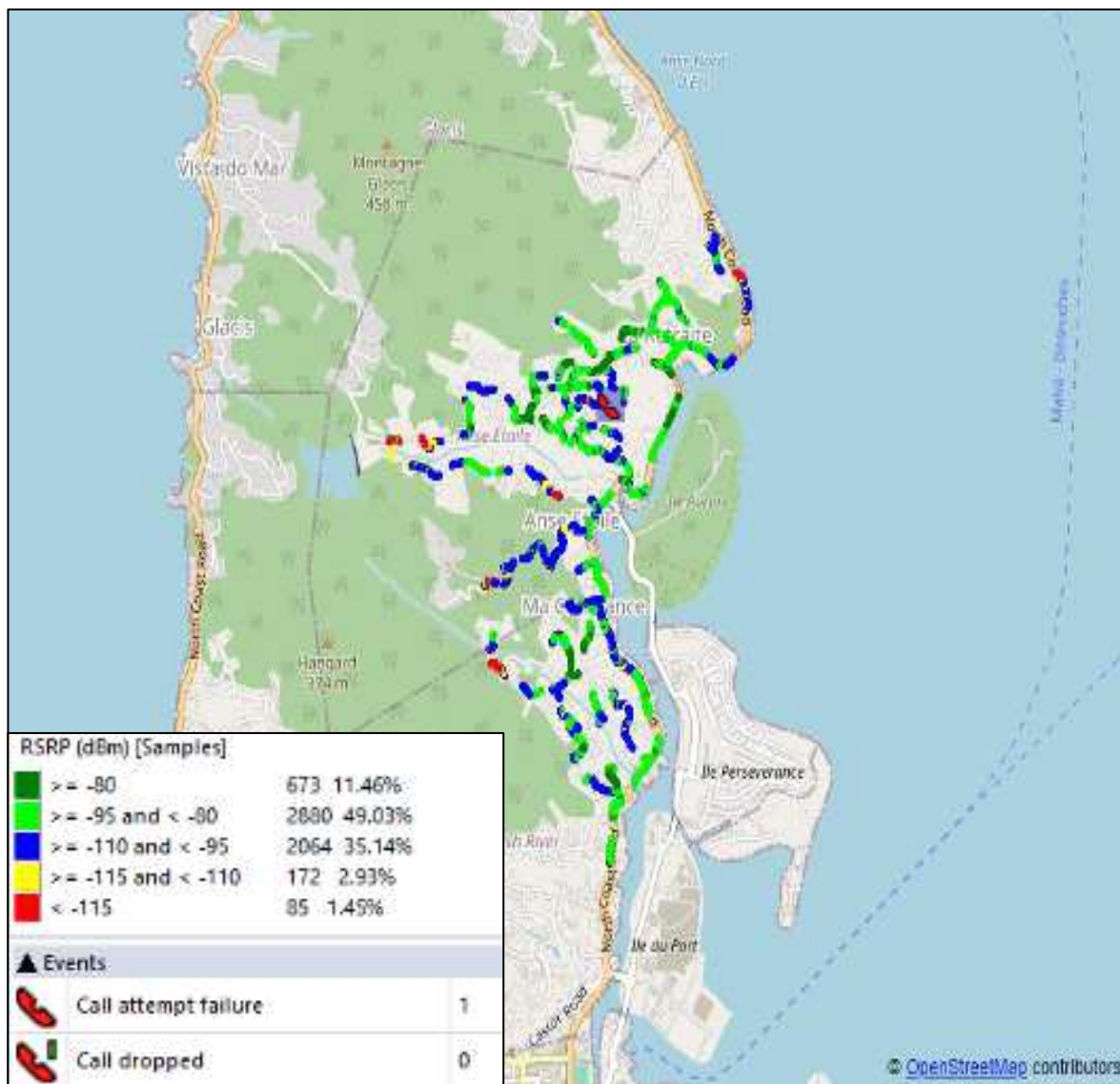


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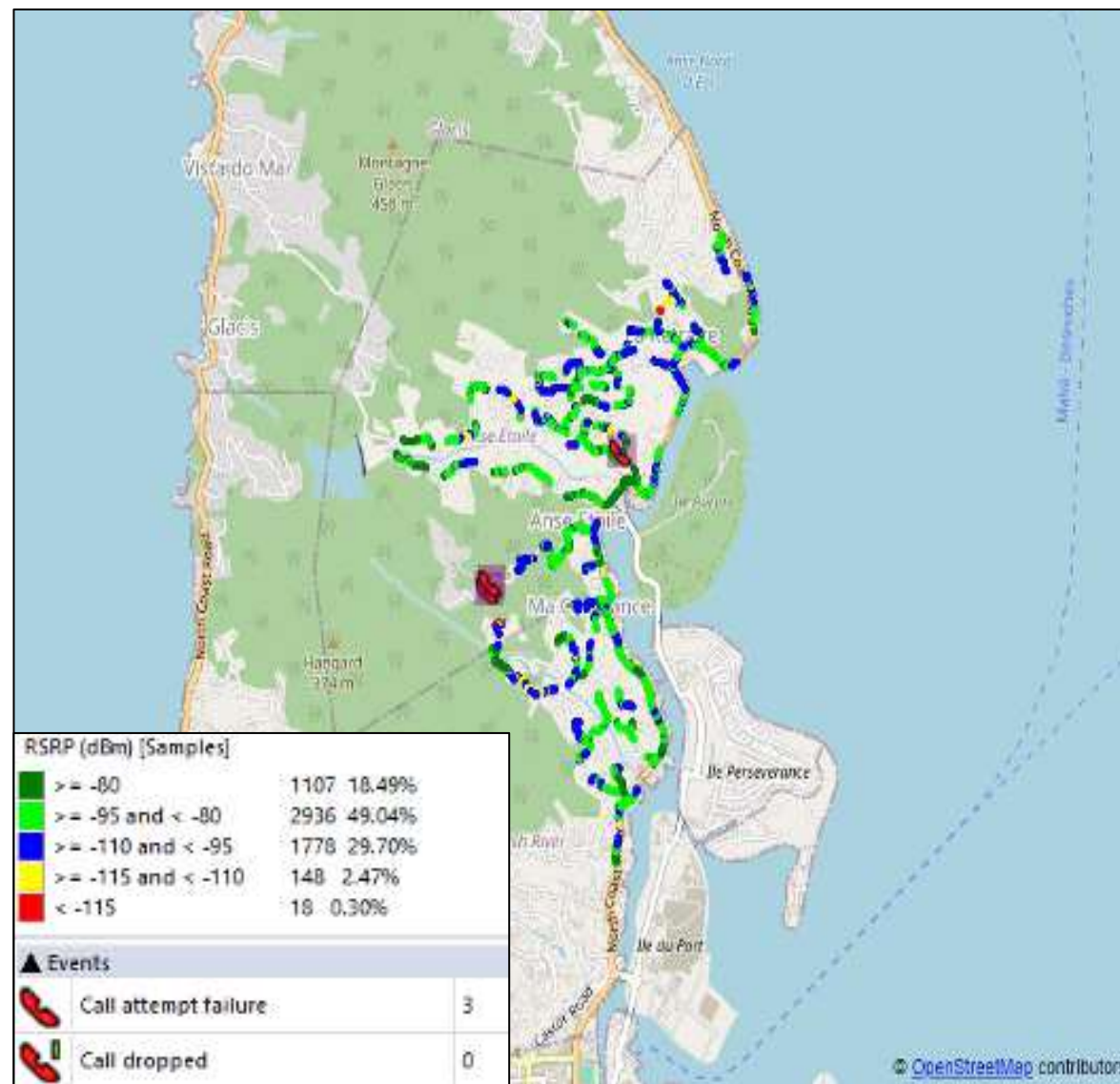
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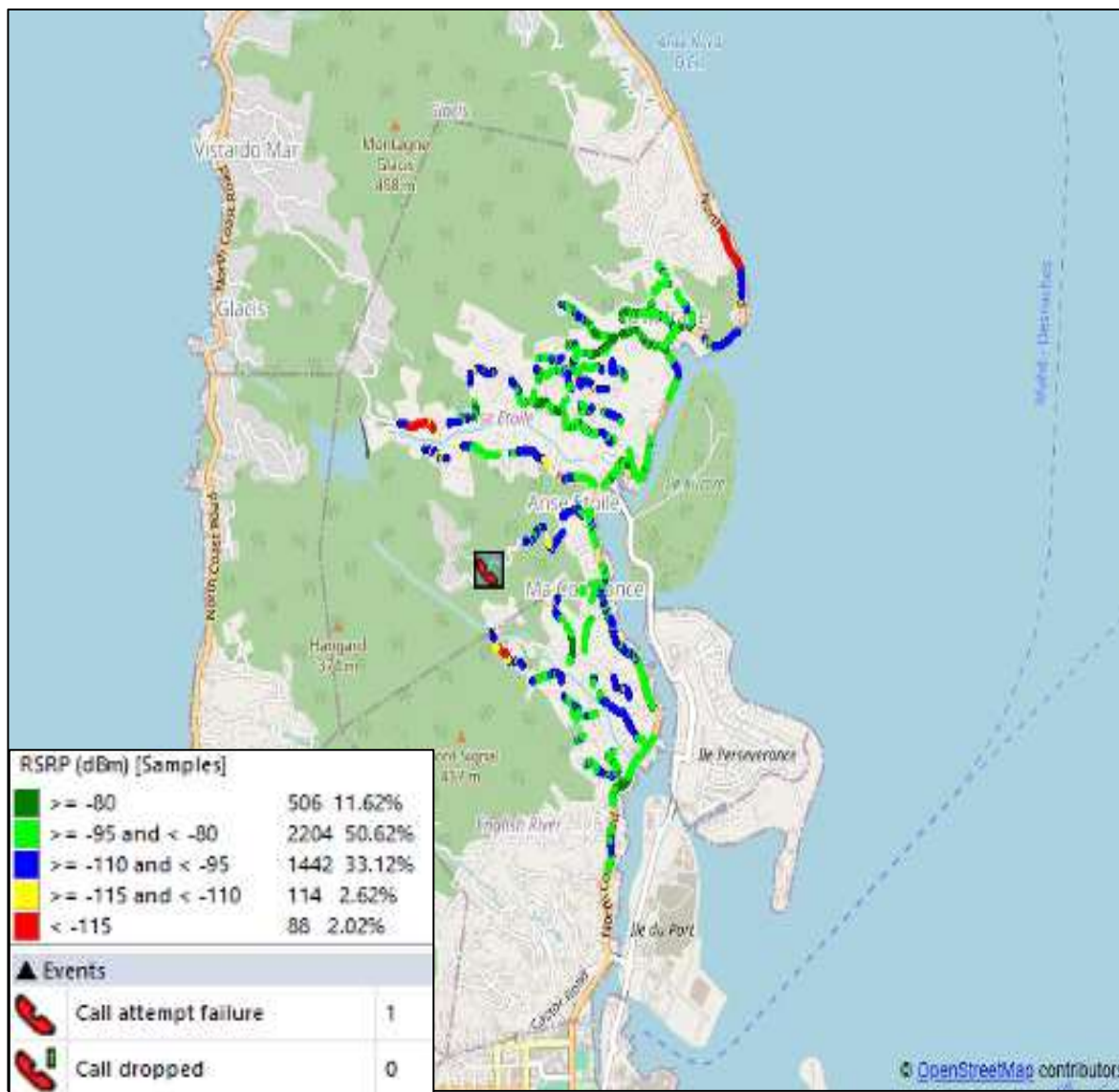
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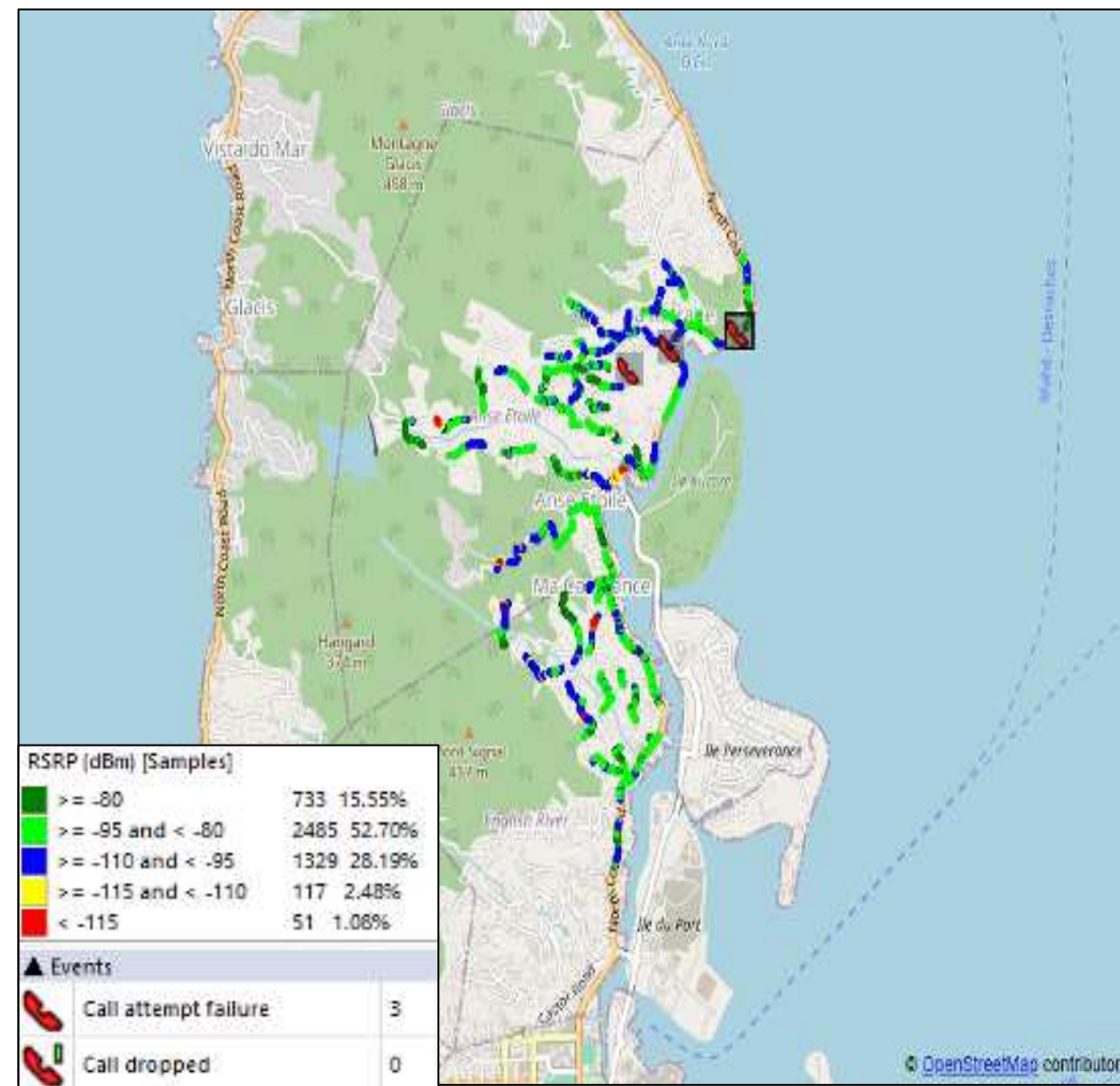
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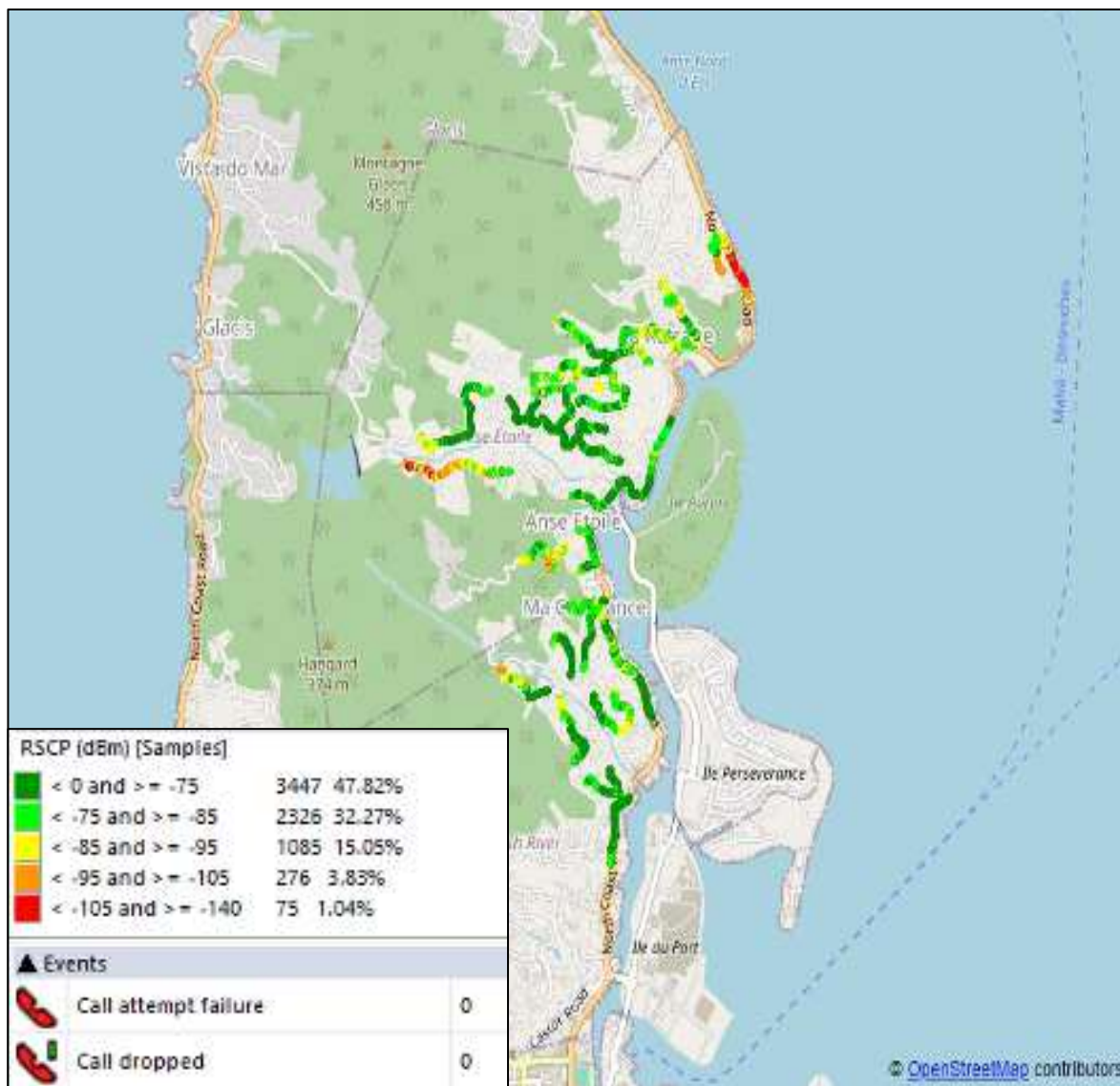
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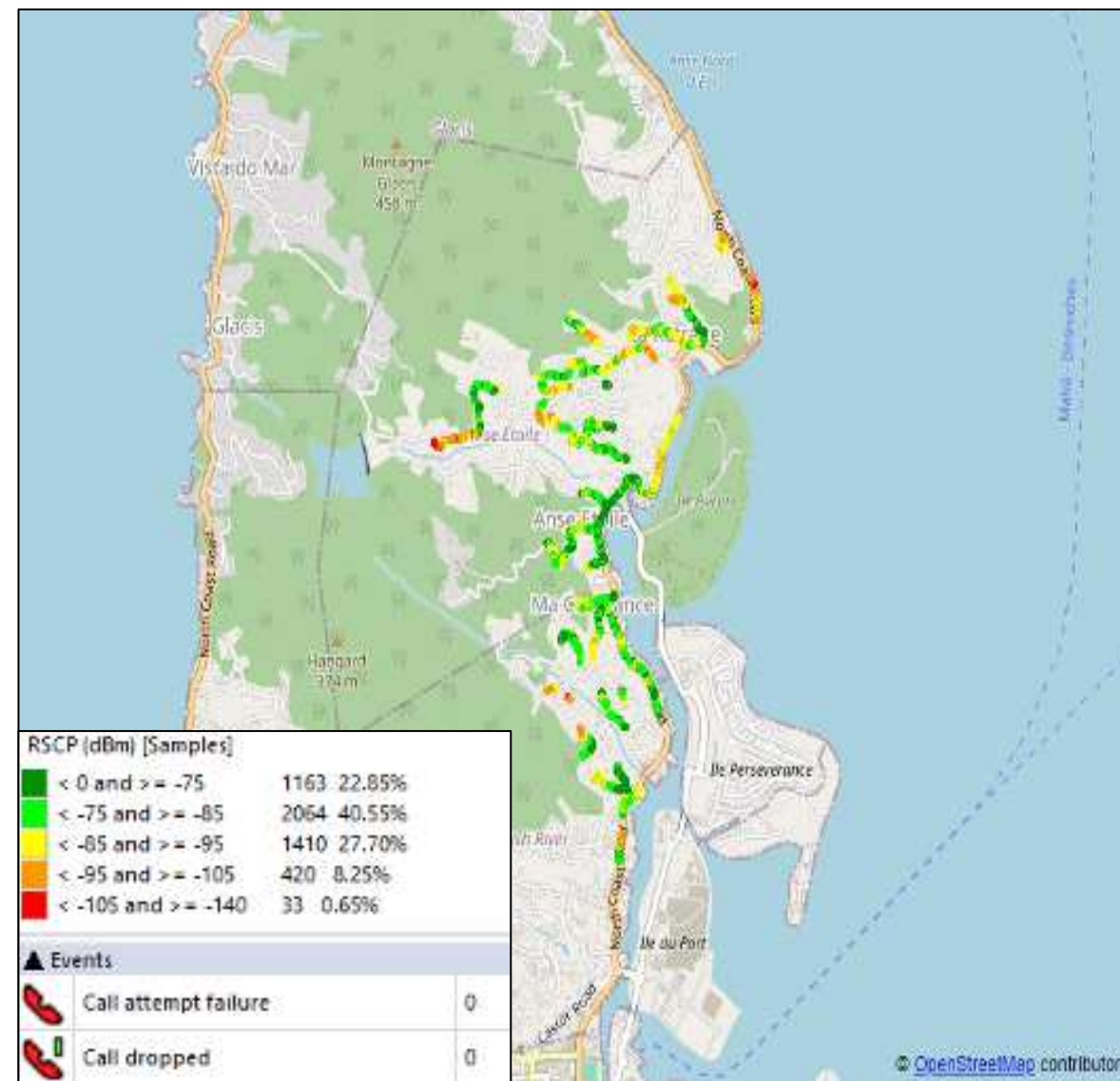
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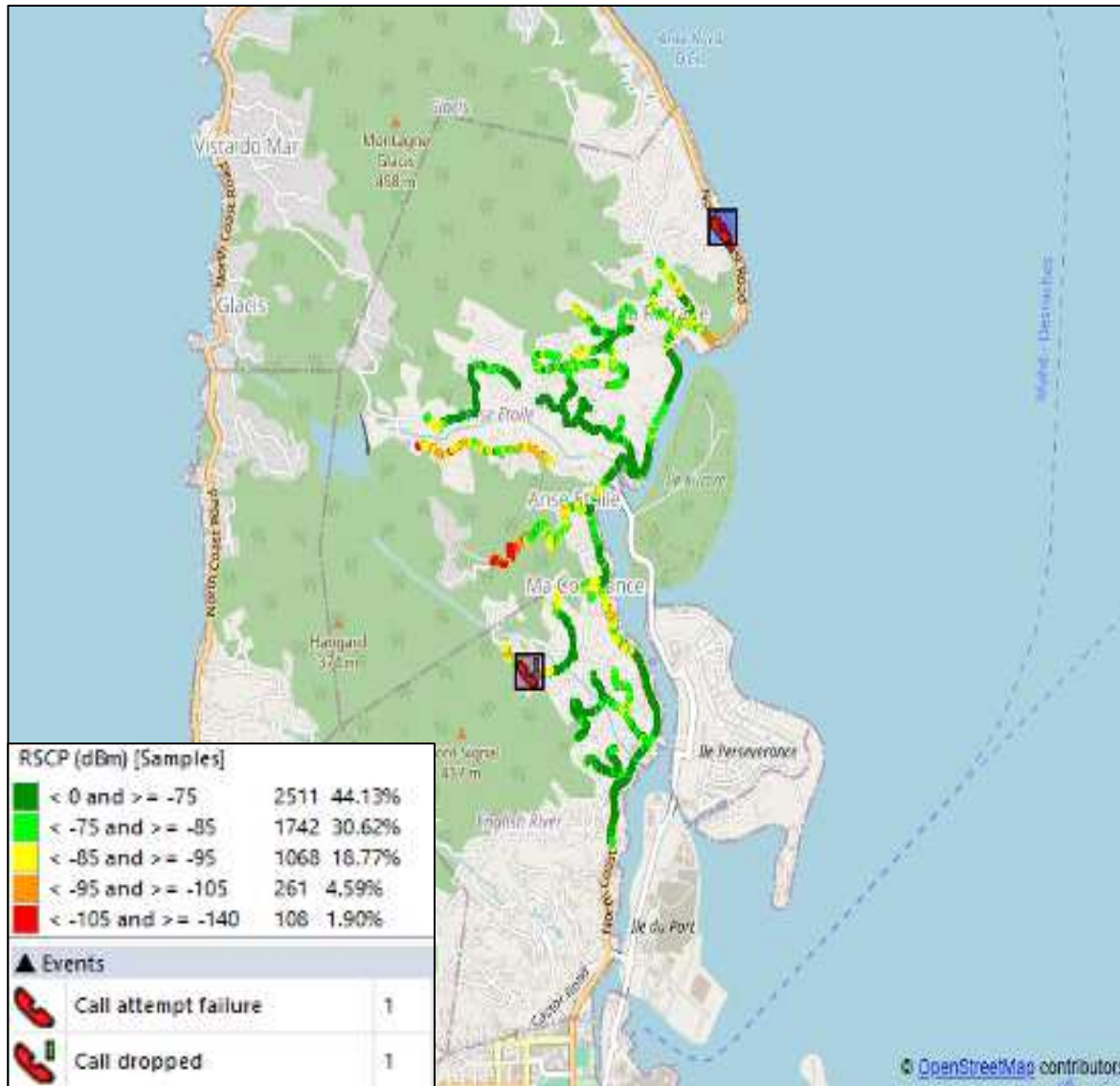
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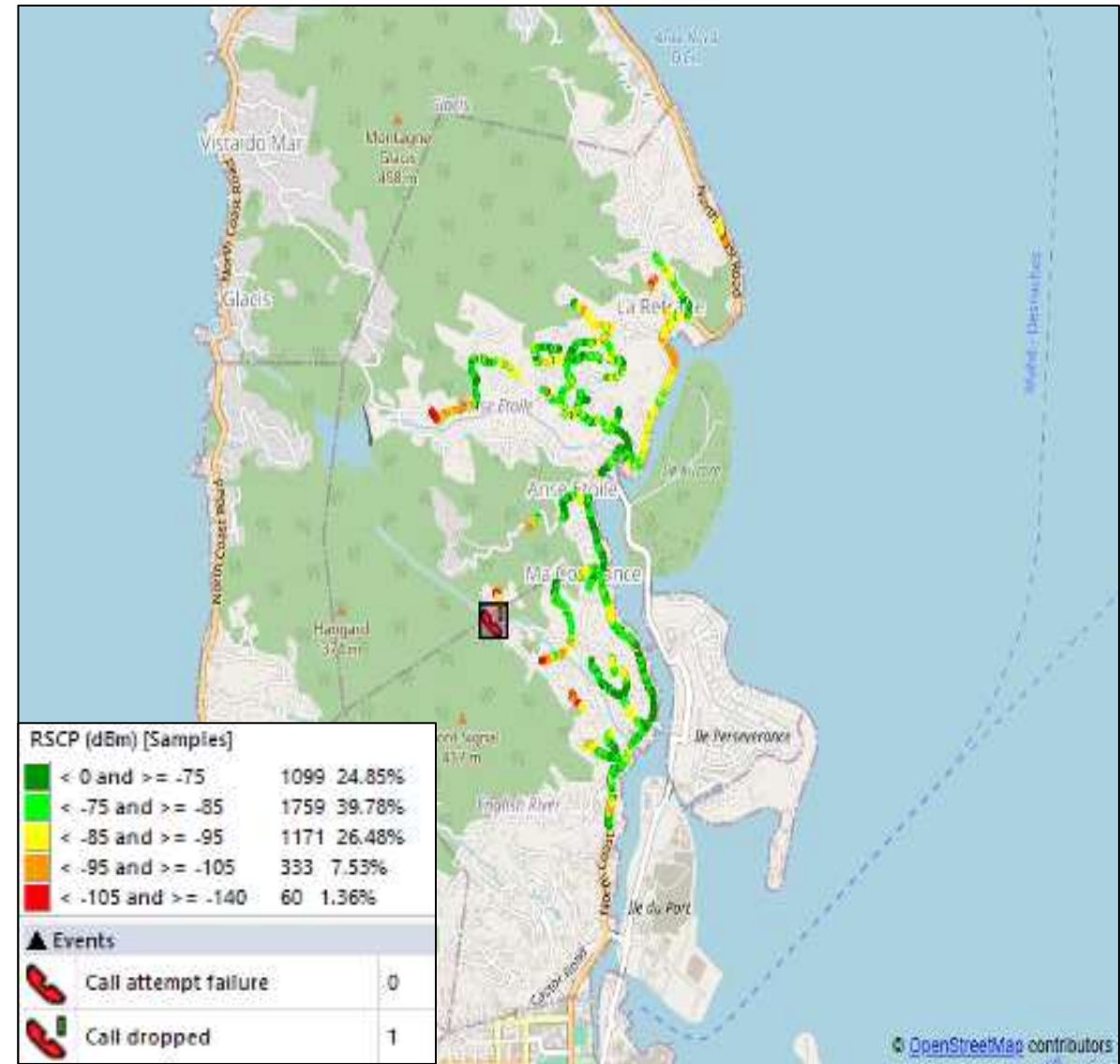
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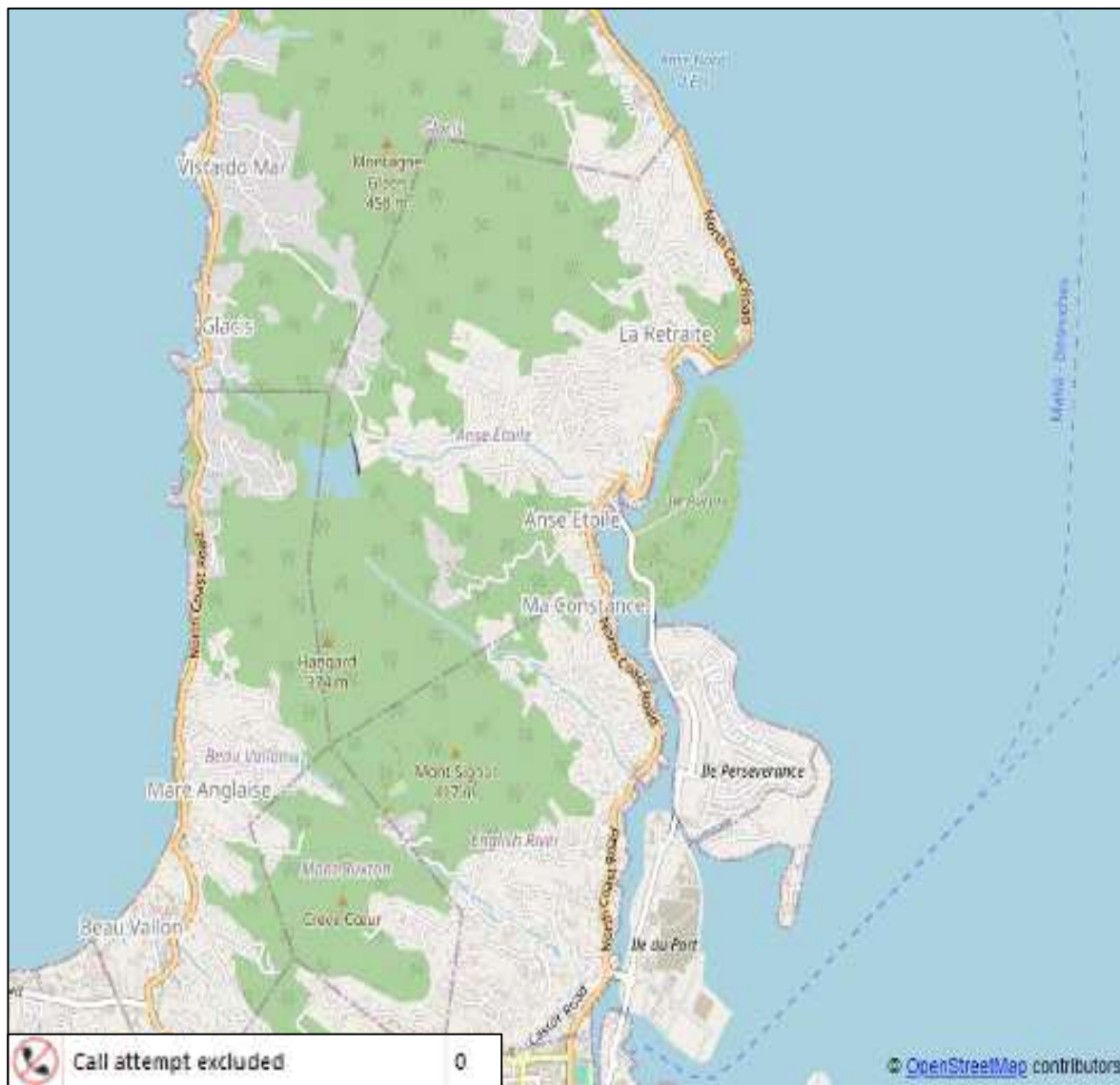
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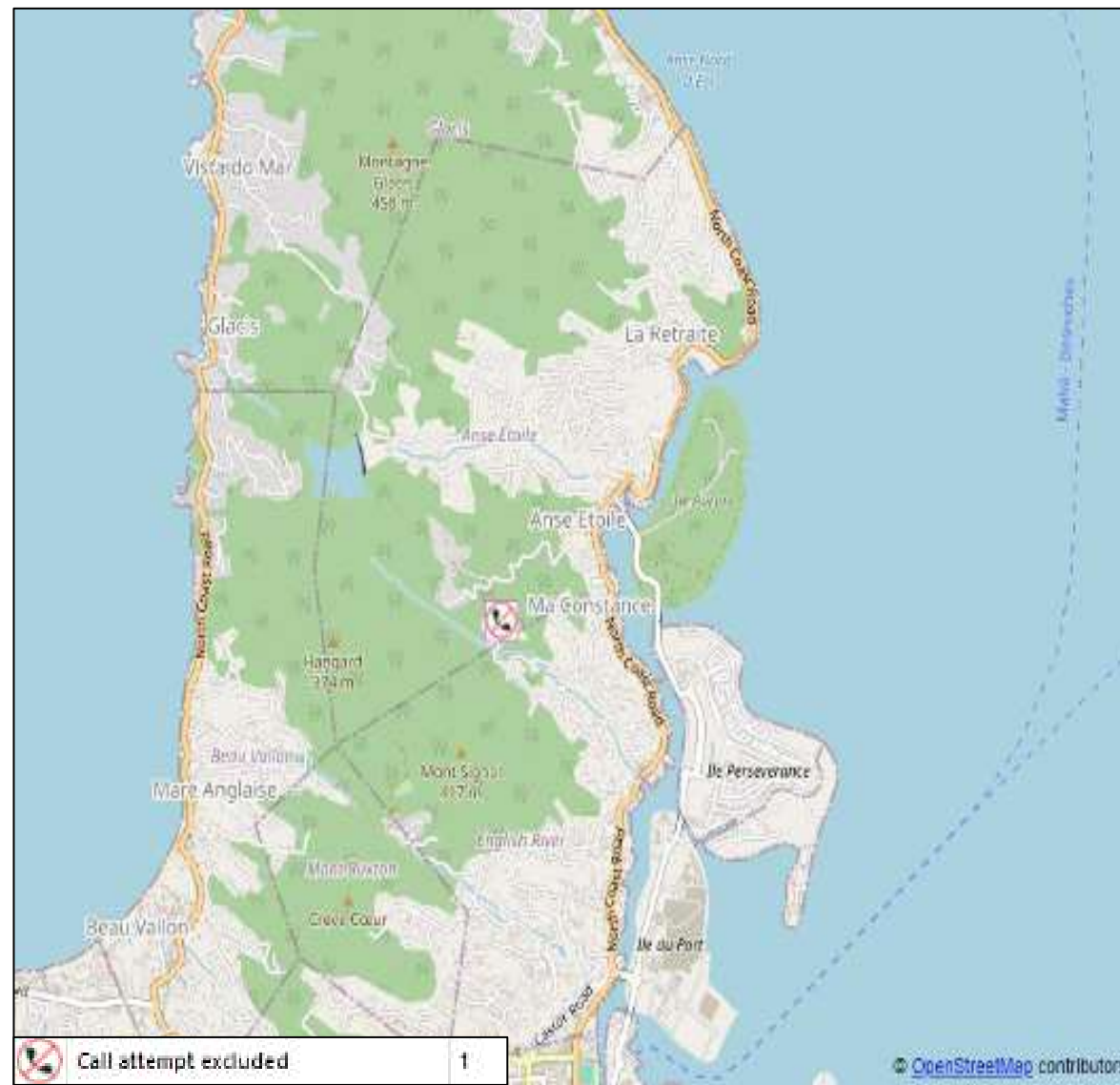
CWS LC MO



Airtel LC MO

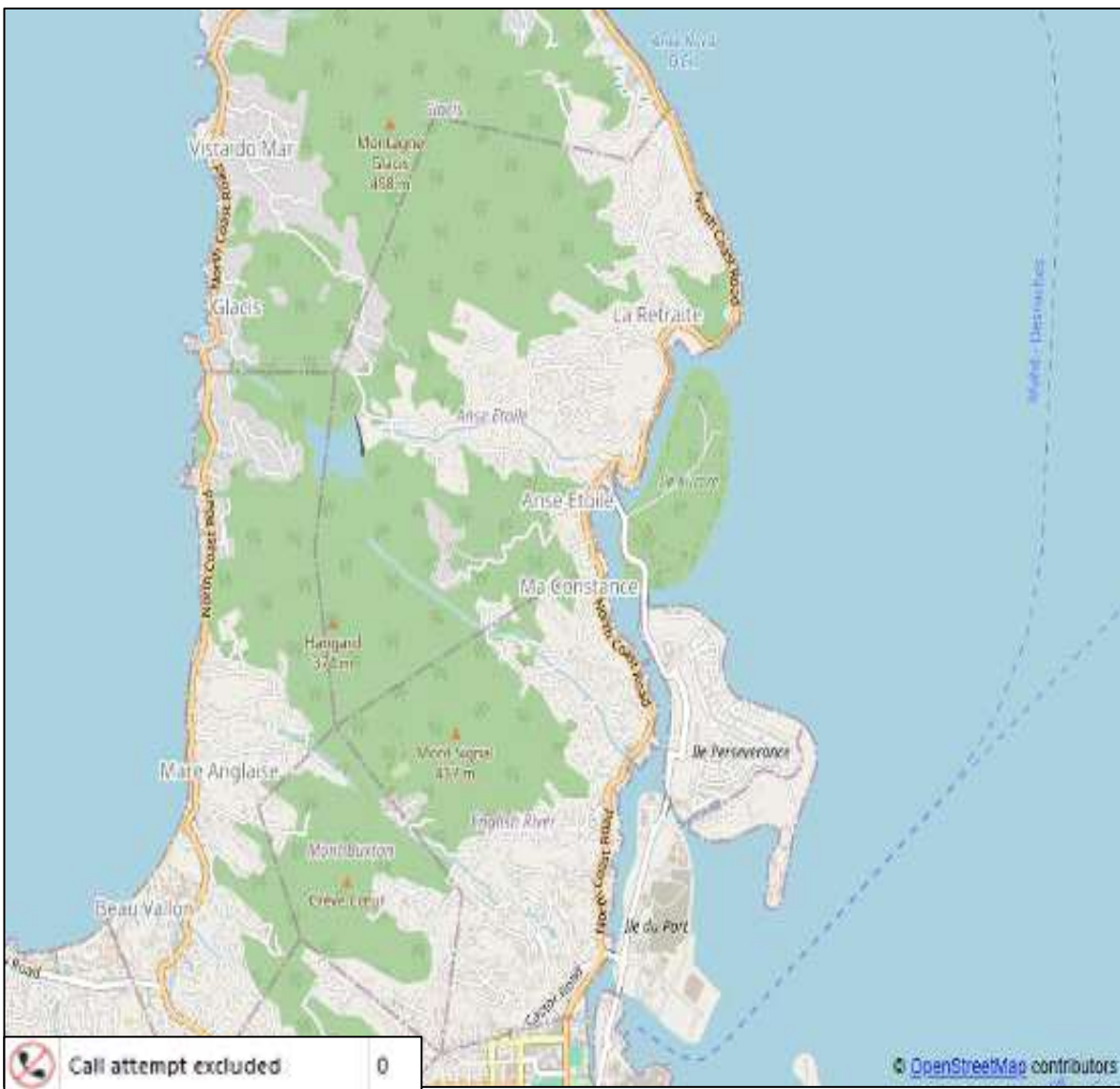
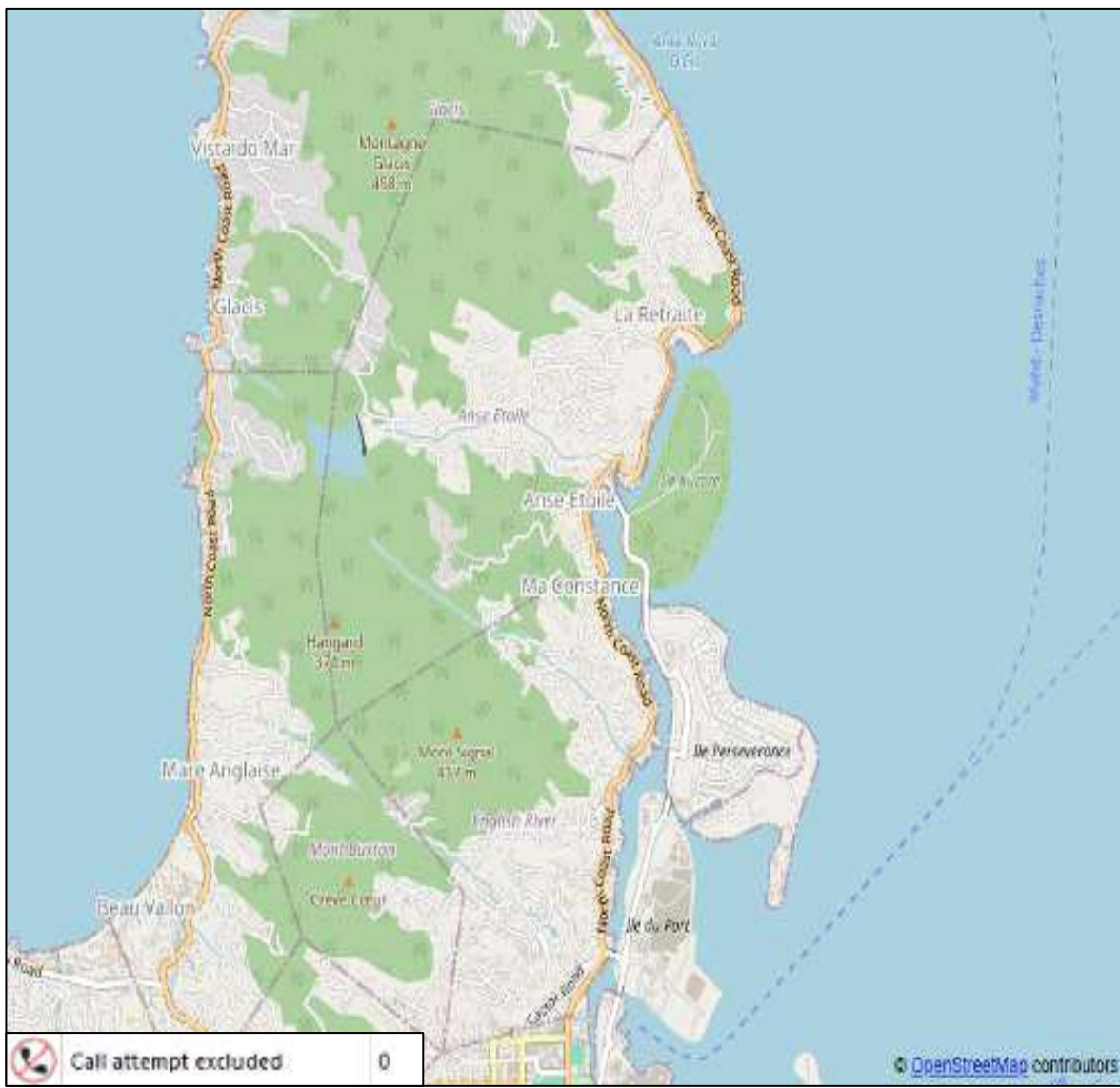


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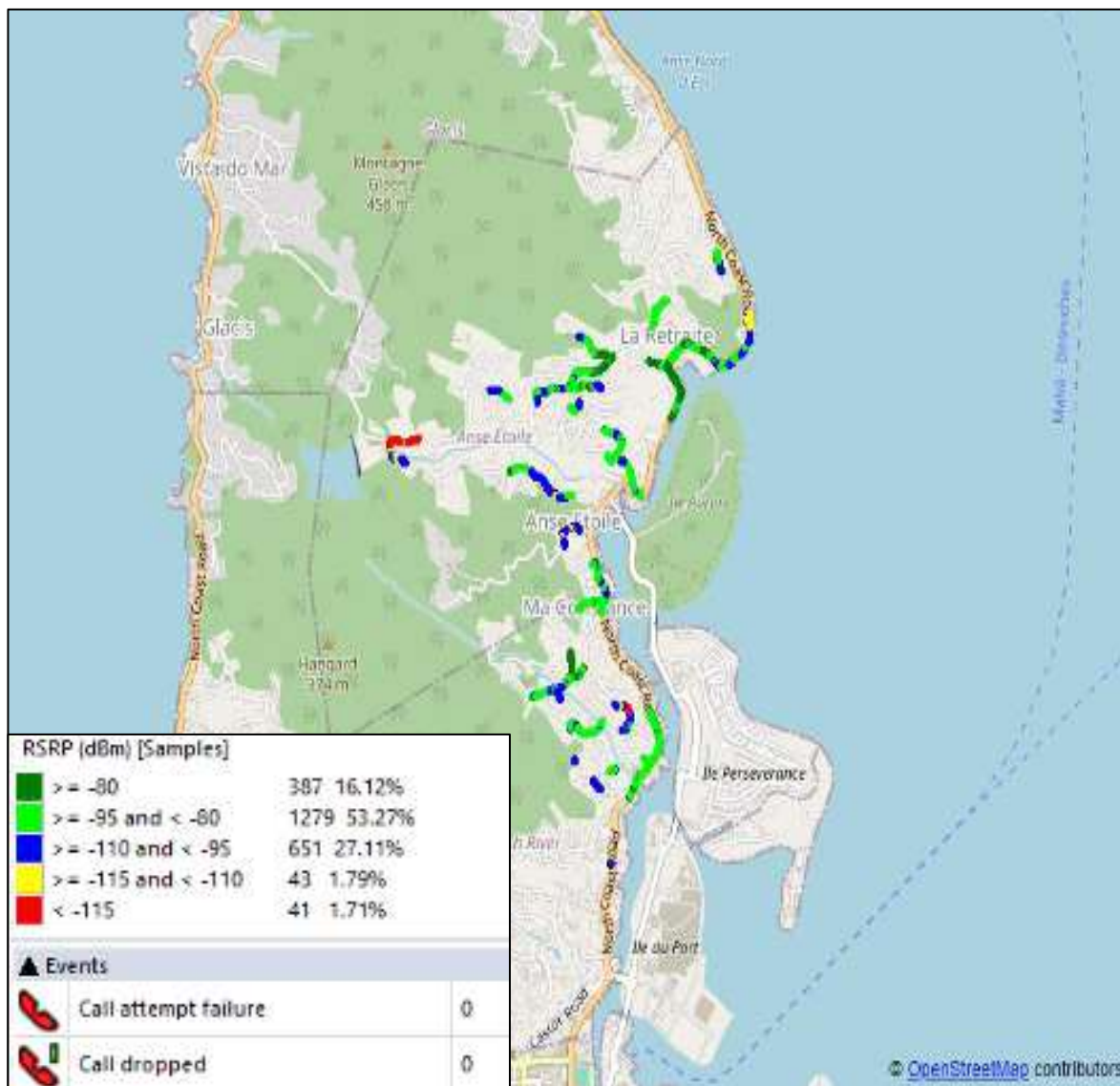


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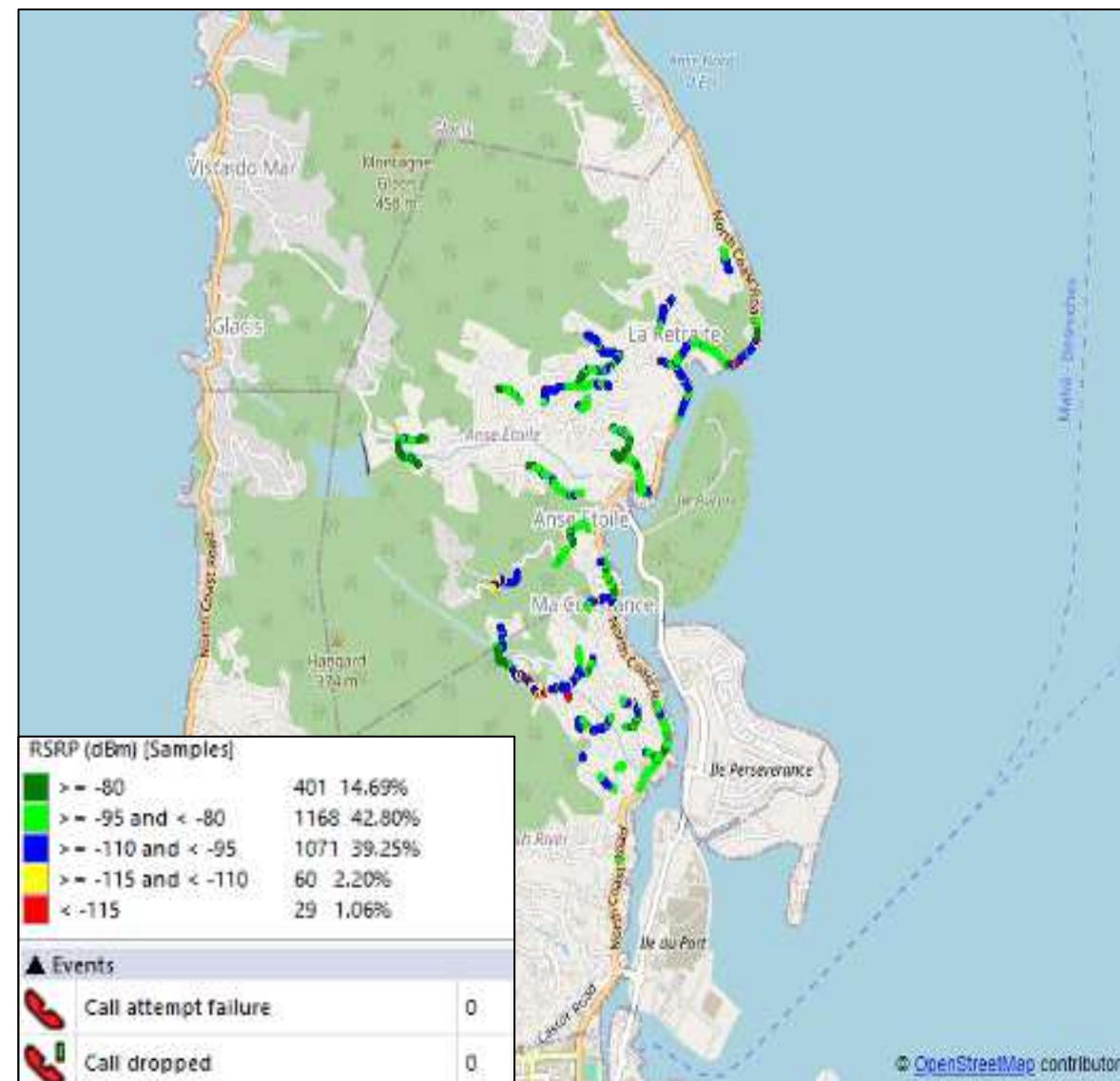
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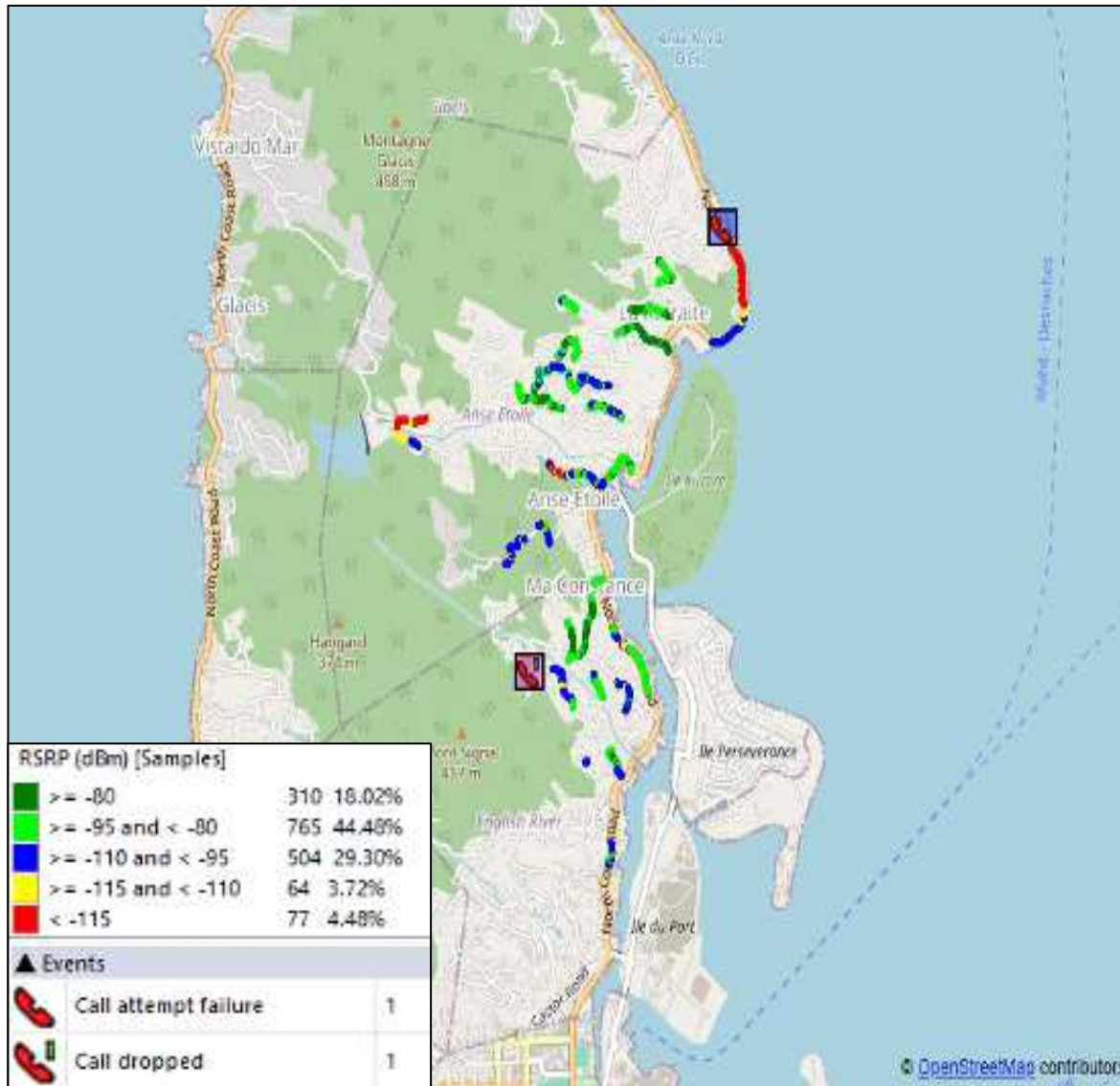
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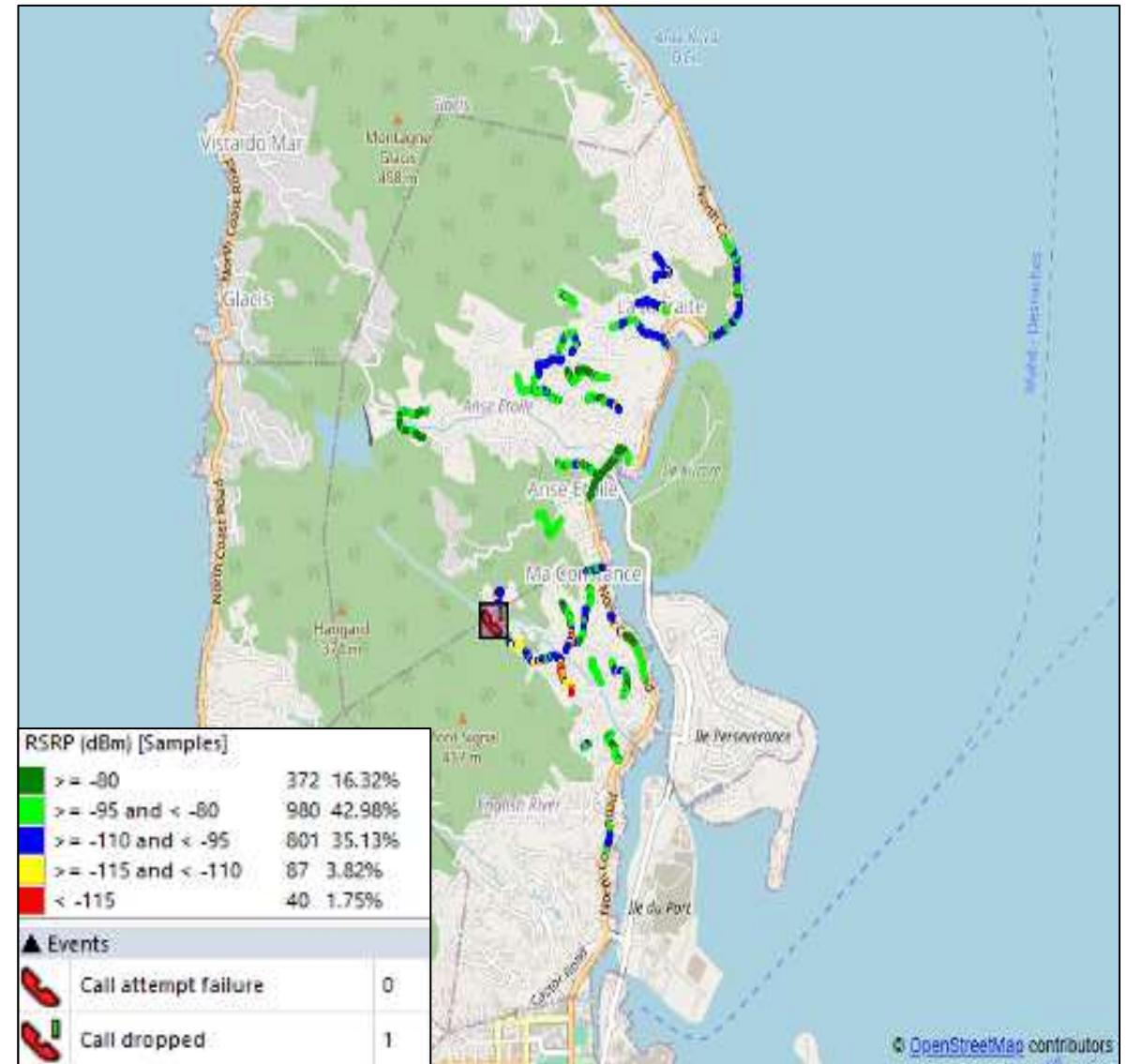
CWS LC MO



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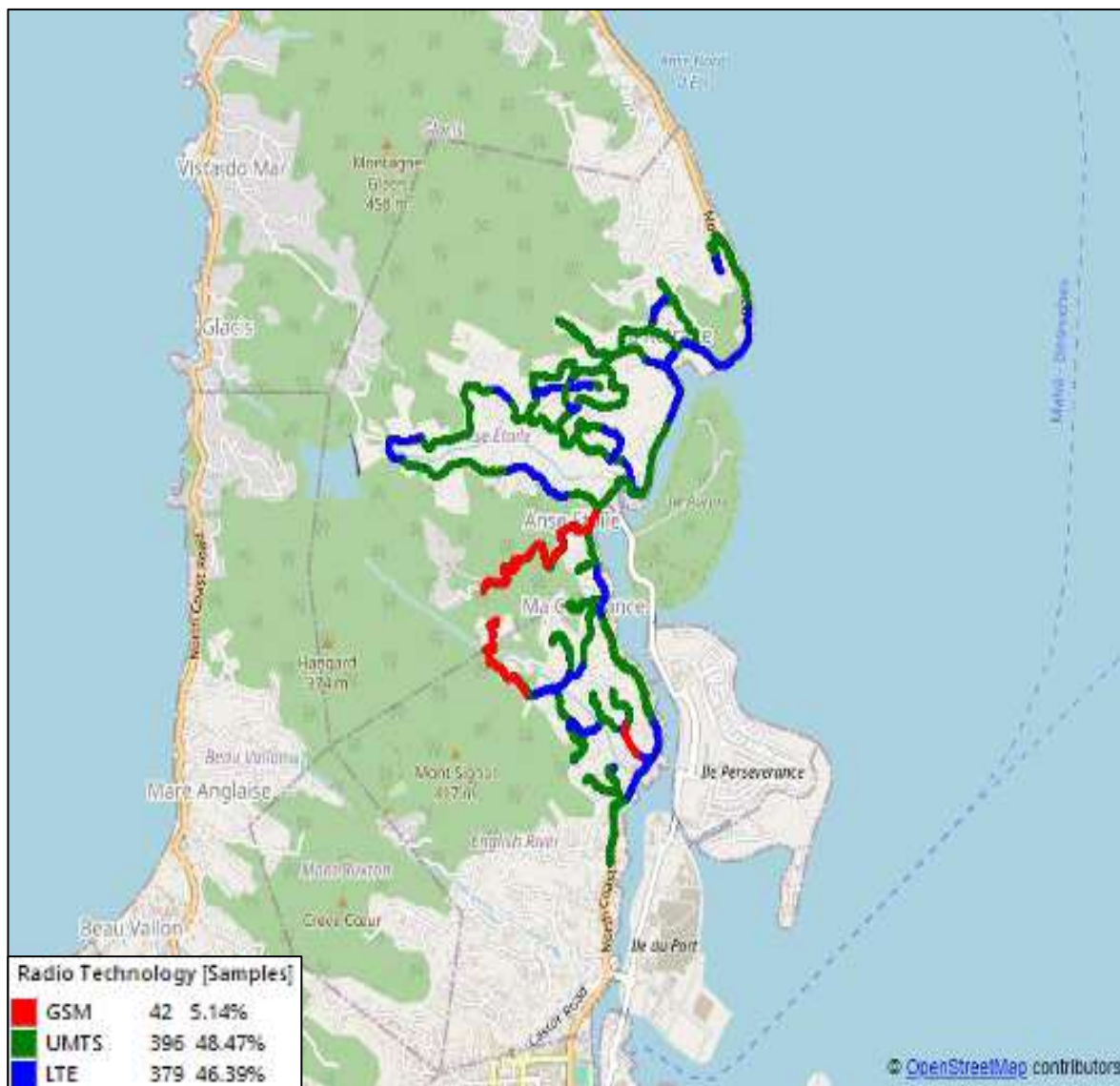


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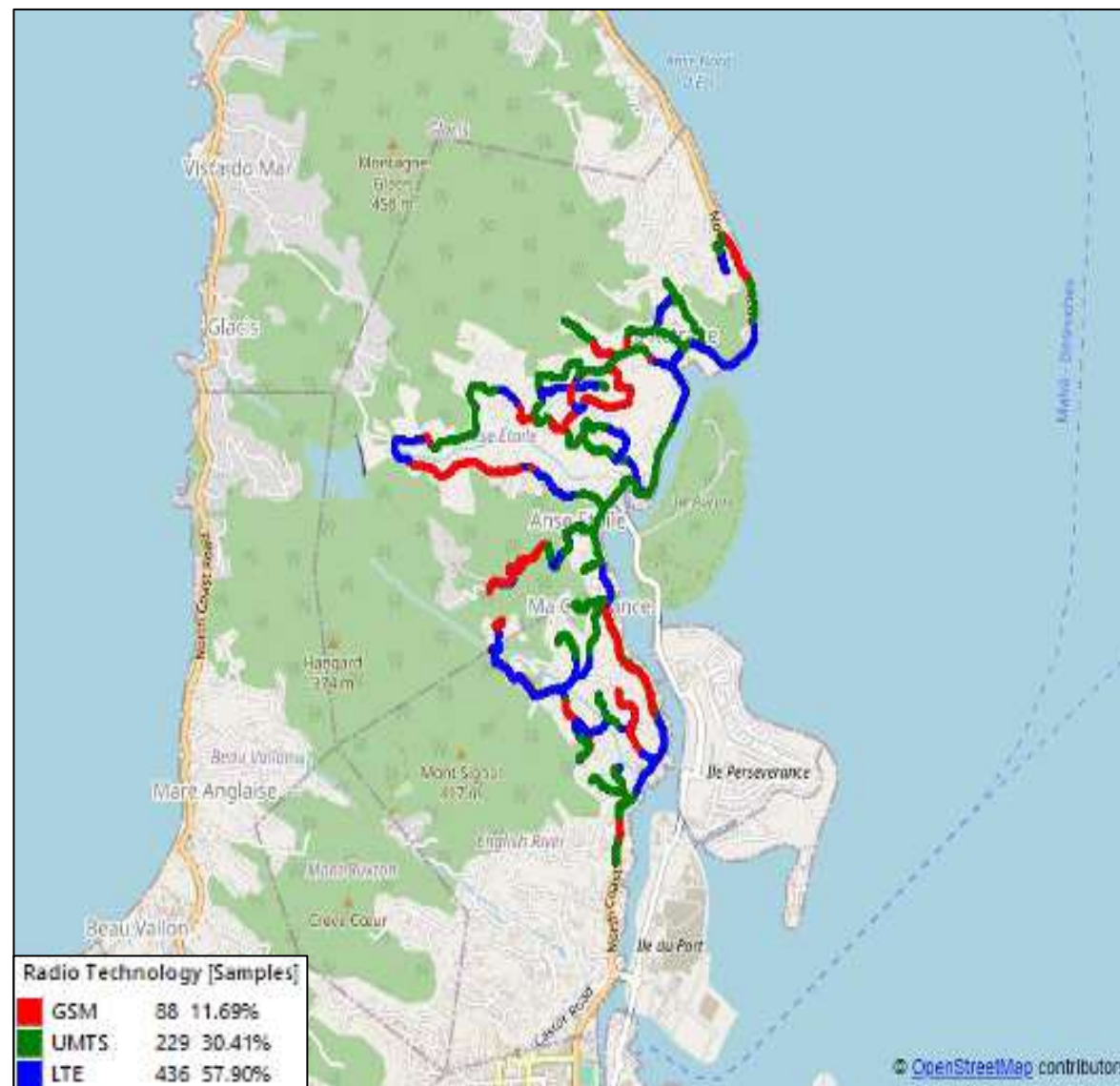


LONG CALL DRIVE PLOTS

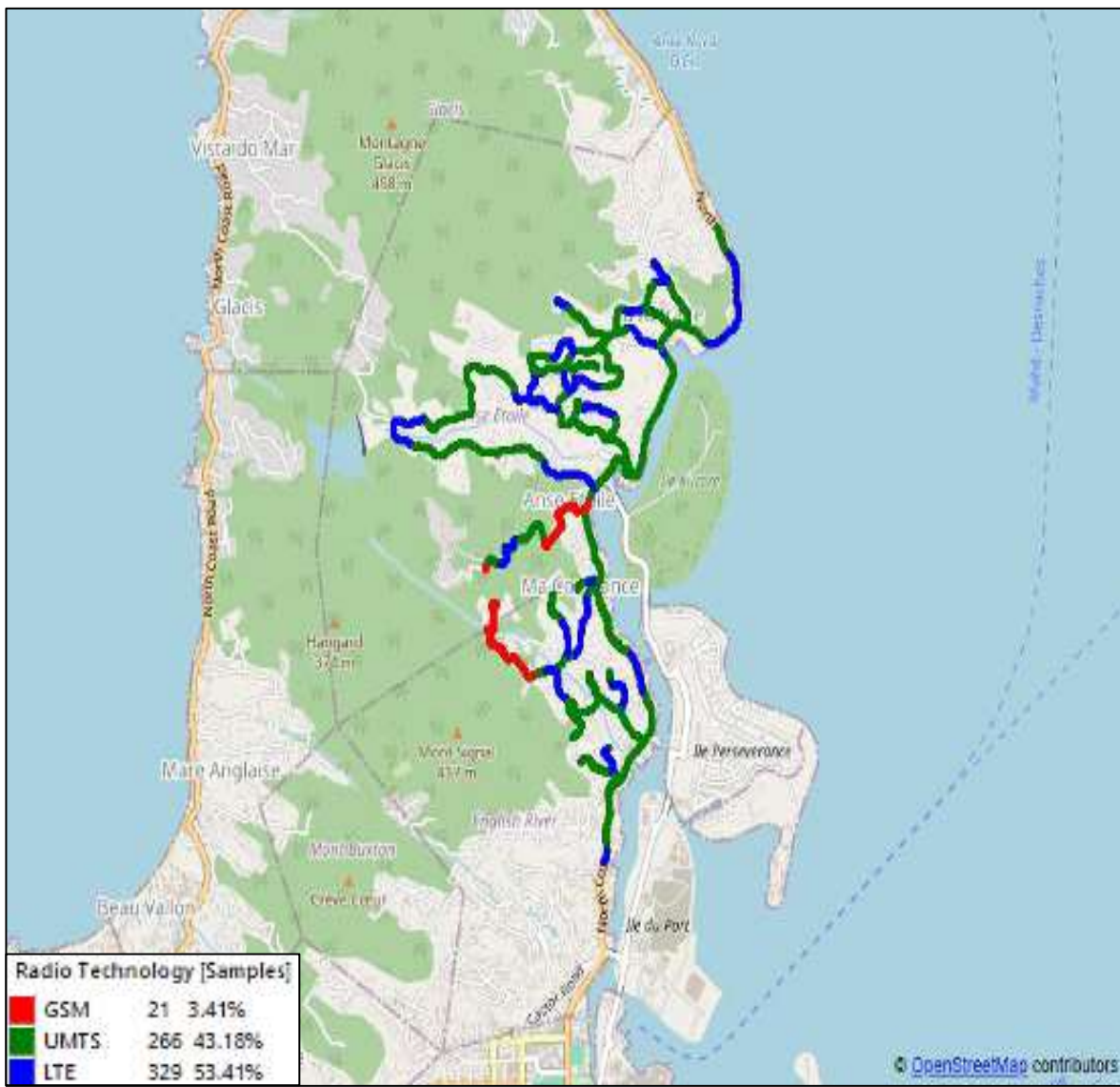
Airtel LC MO



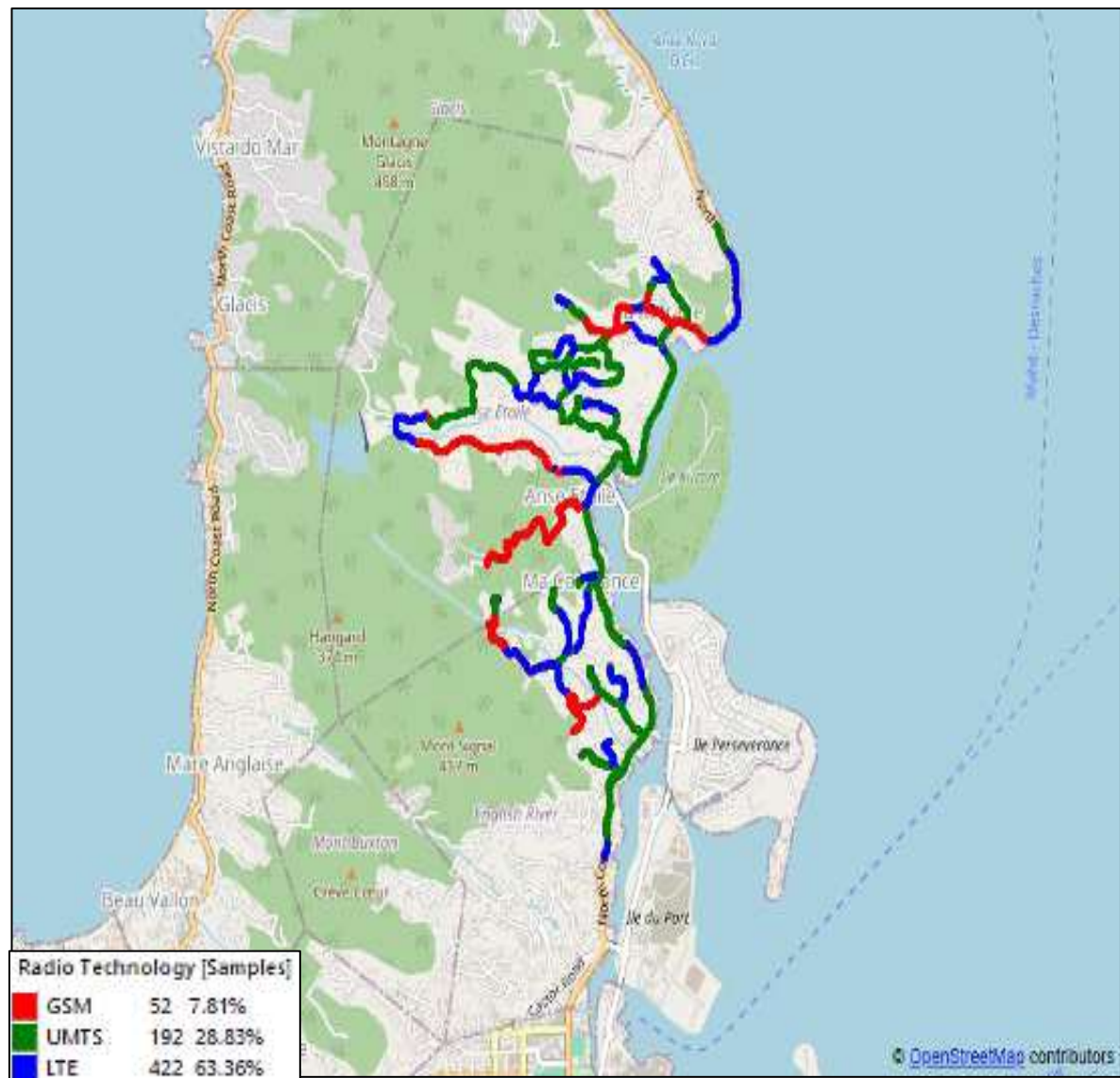
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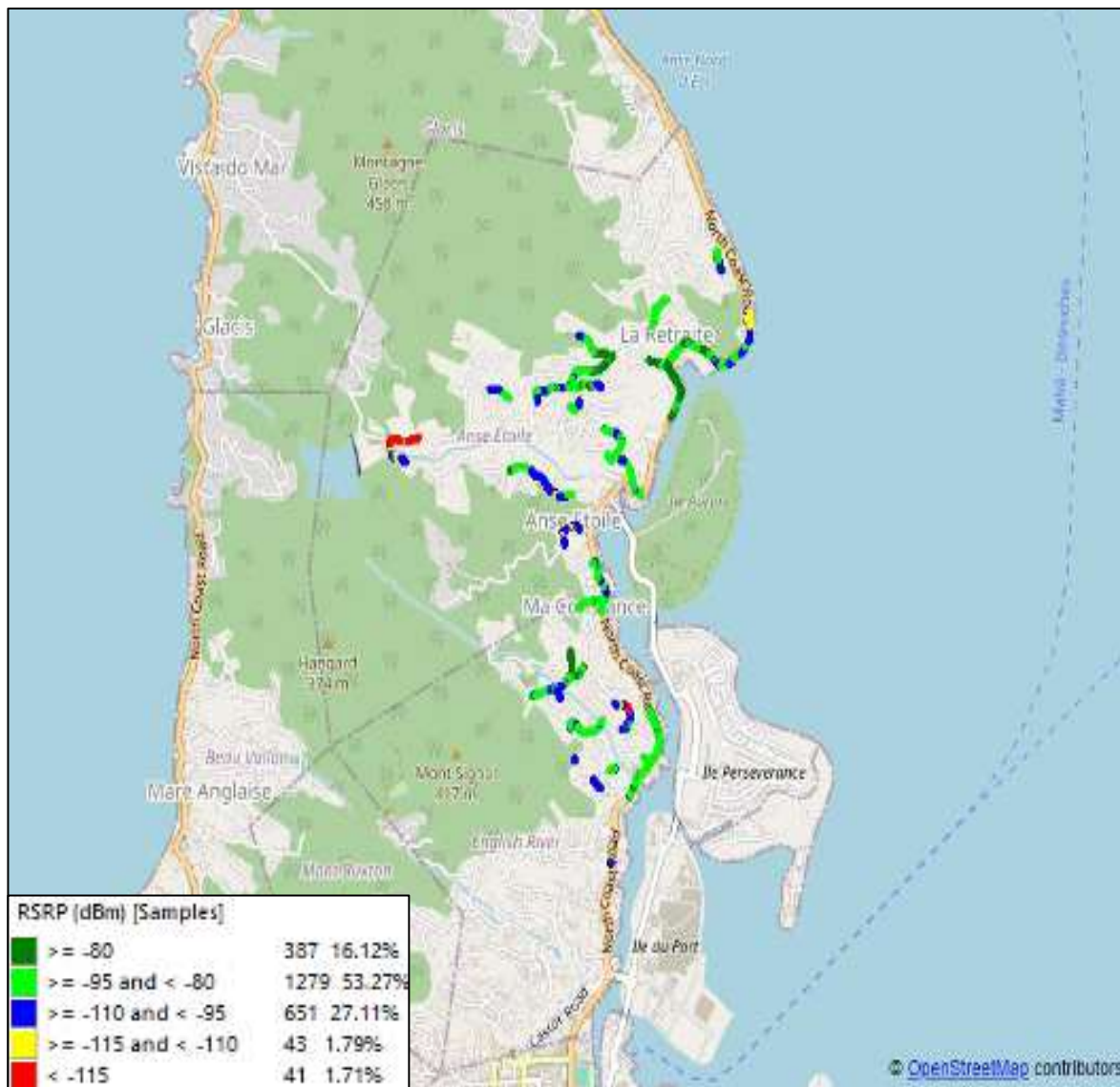
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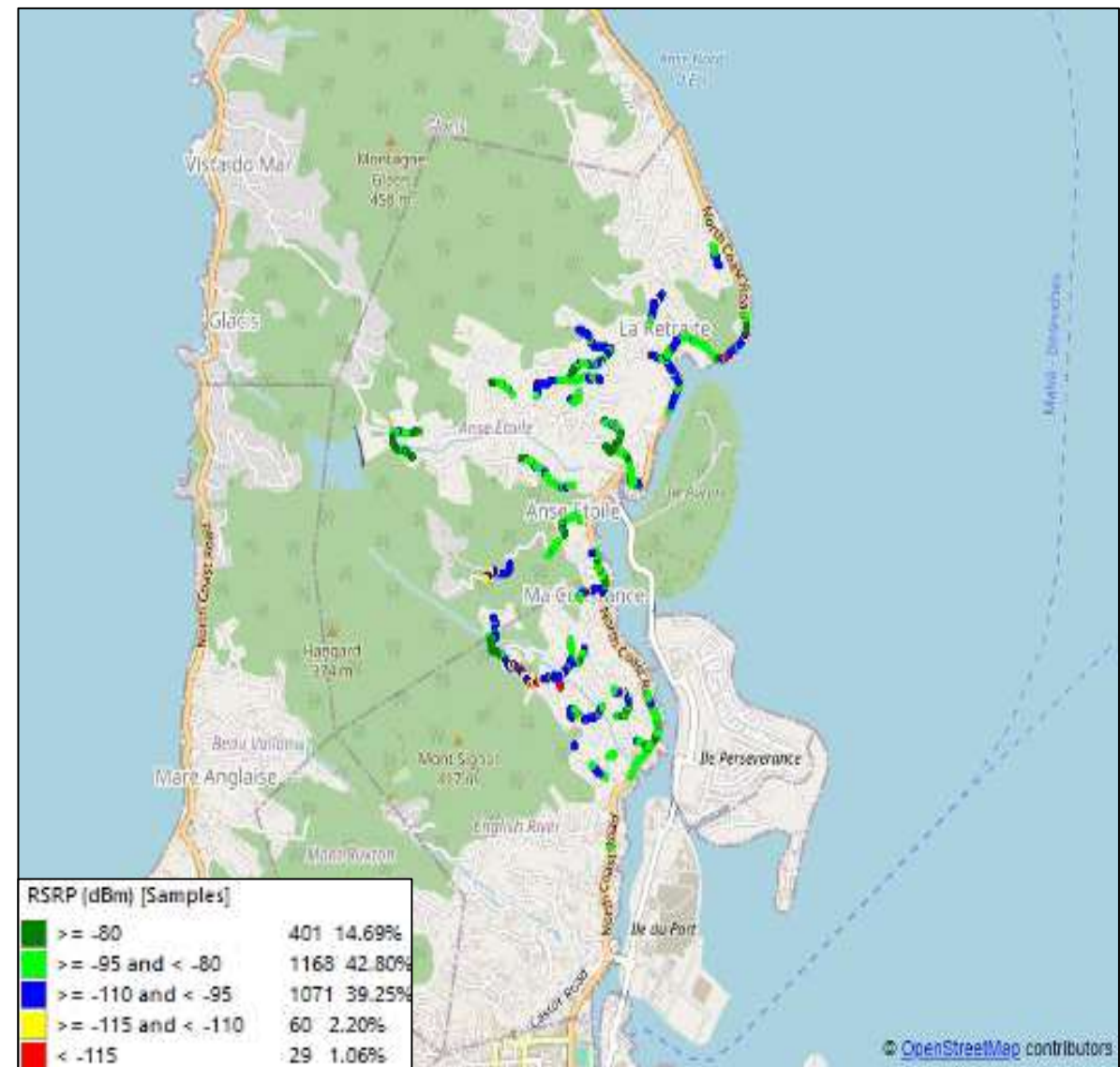
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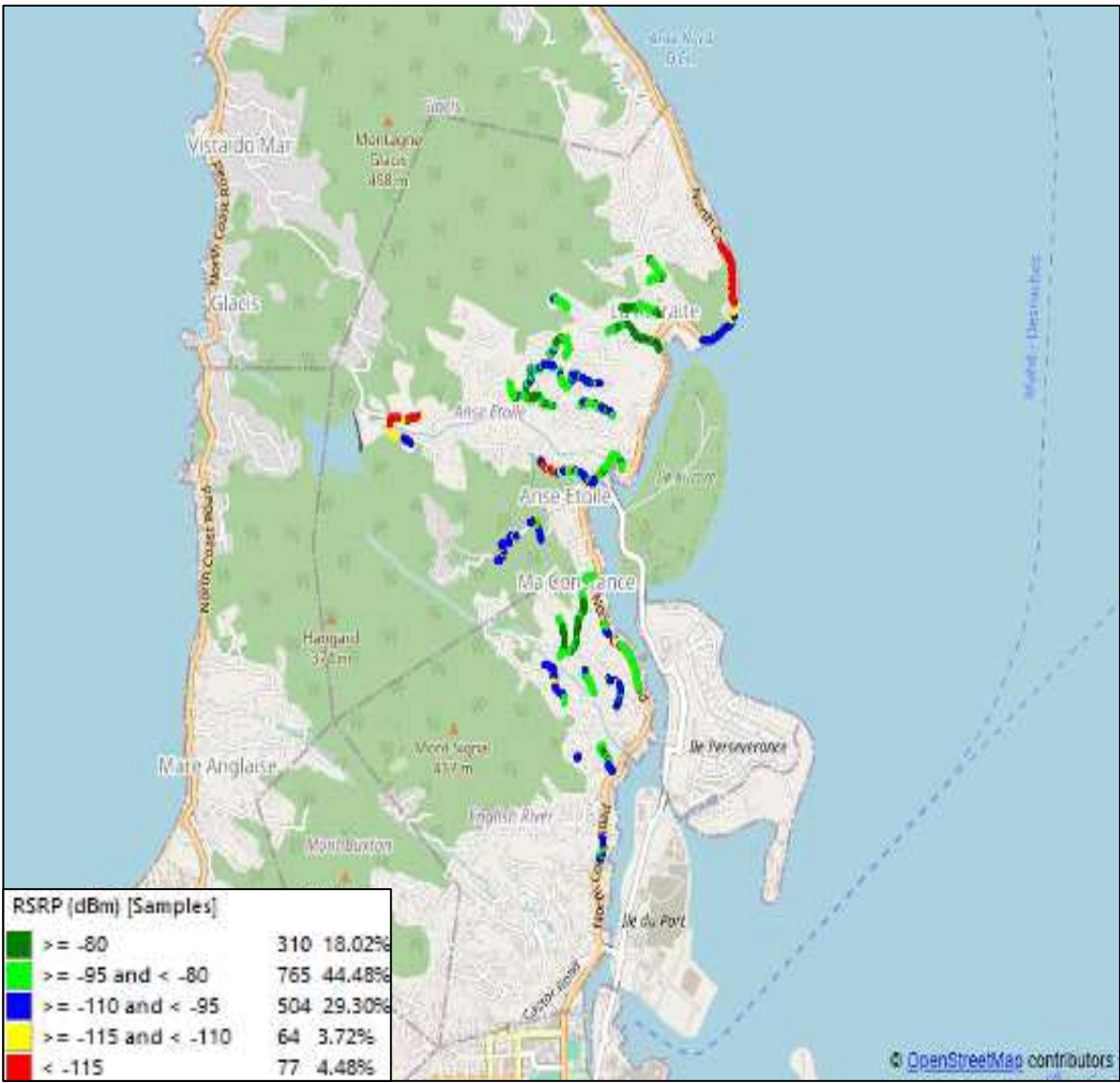
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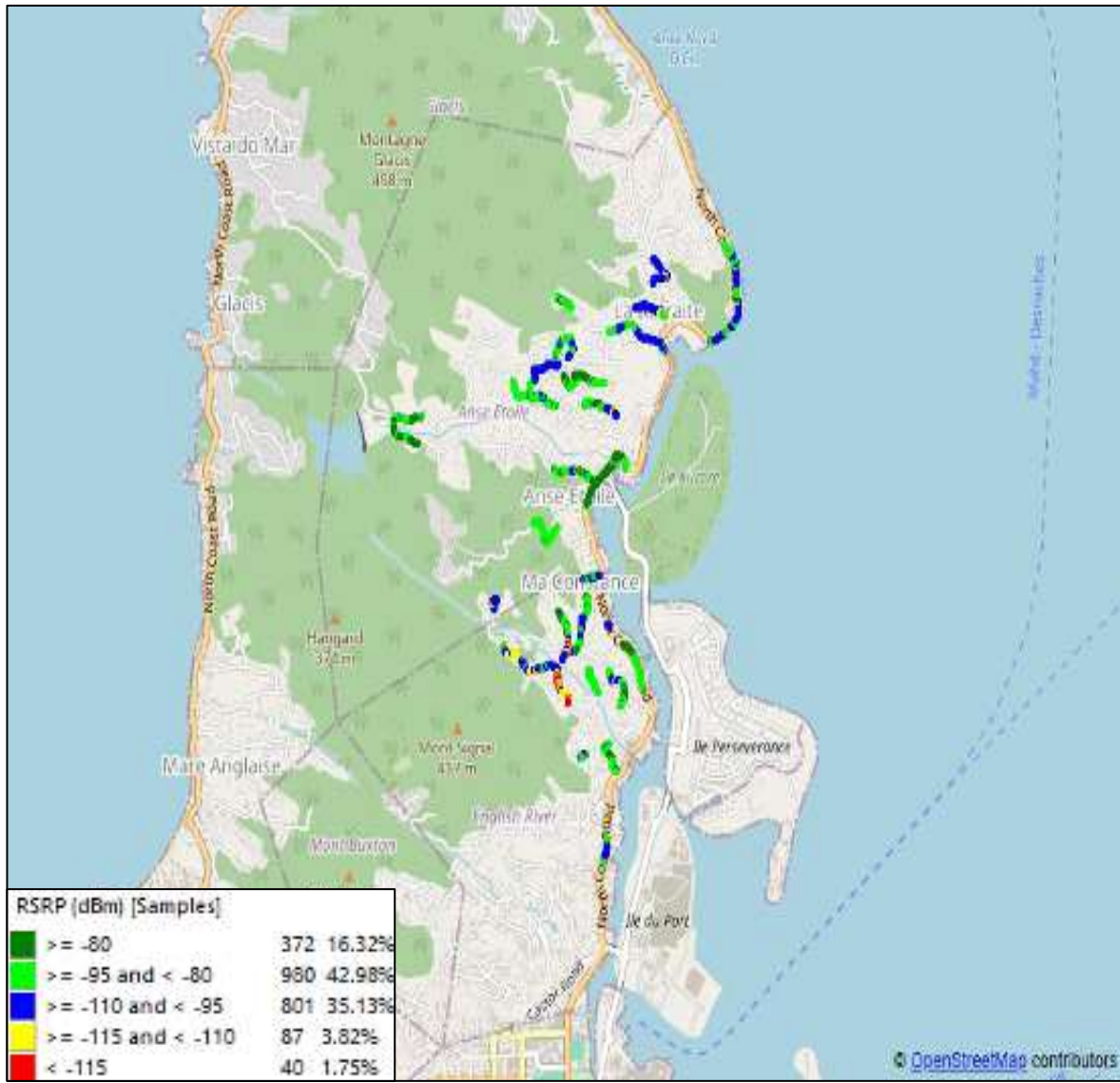
CWS LC MO



Airtel LC MO

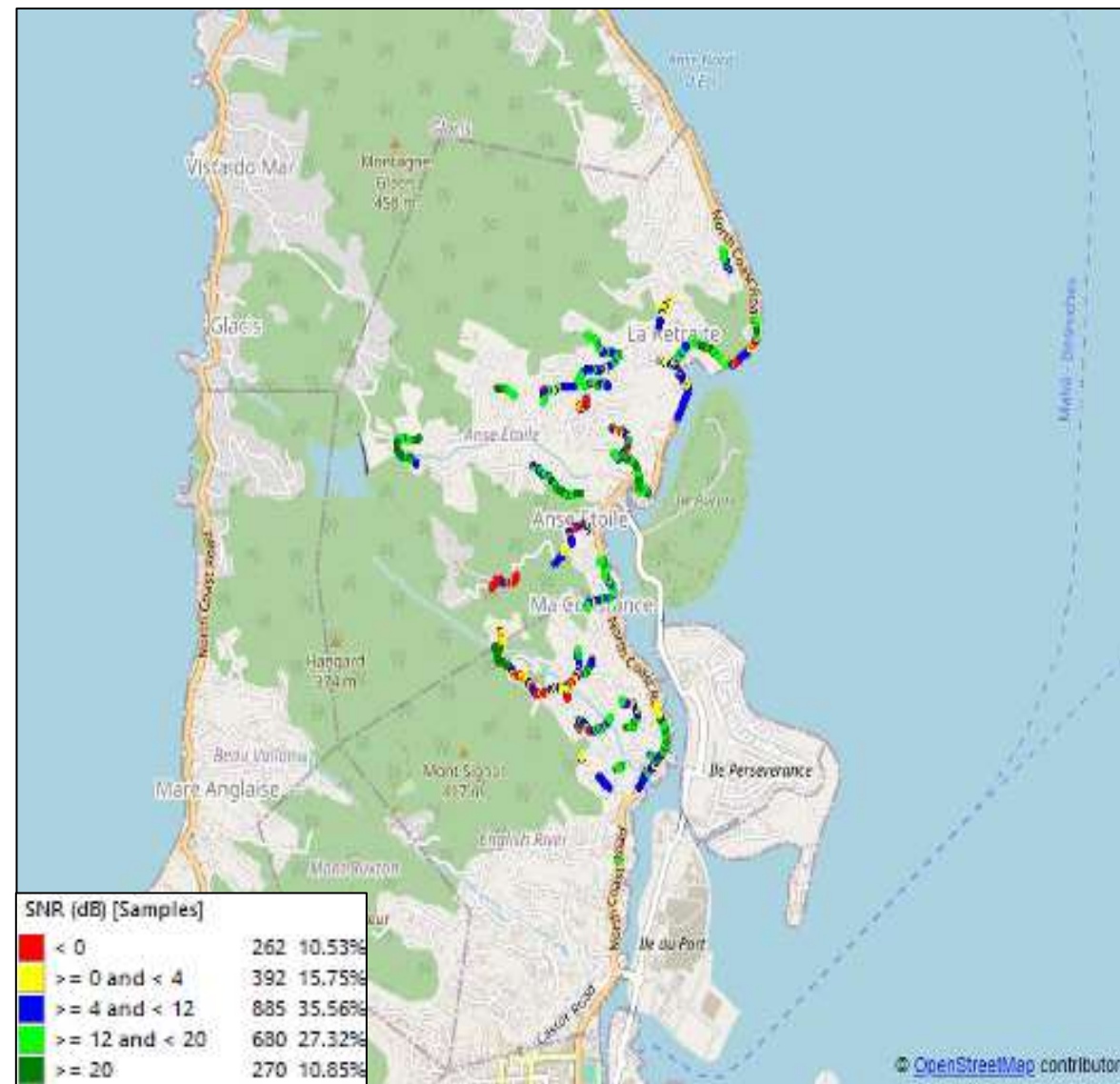
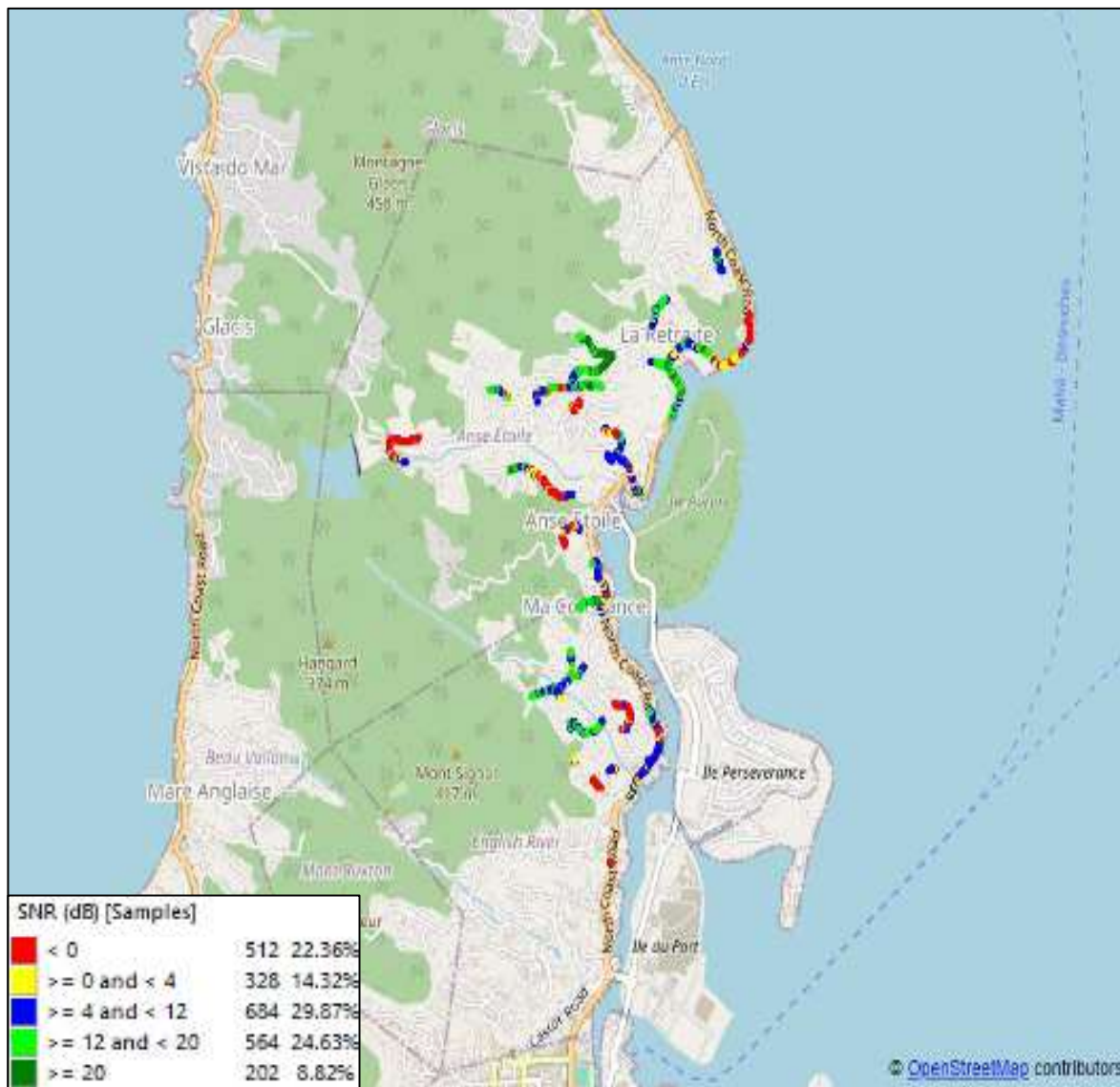


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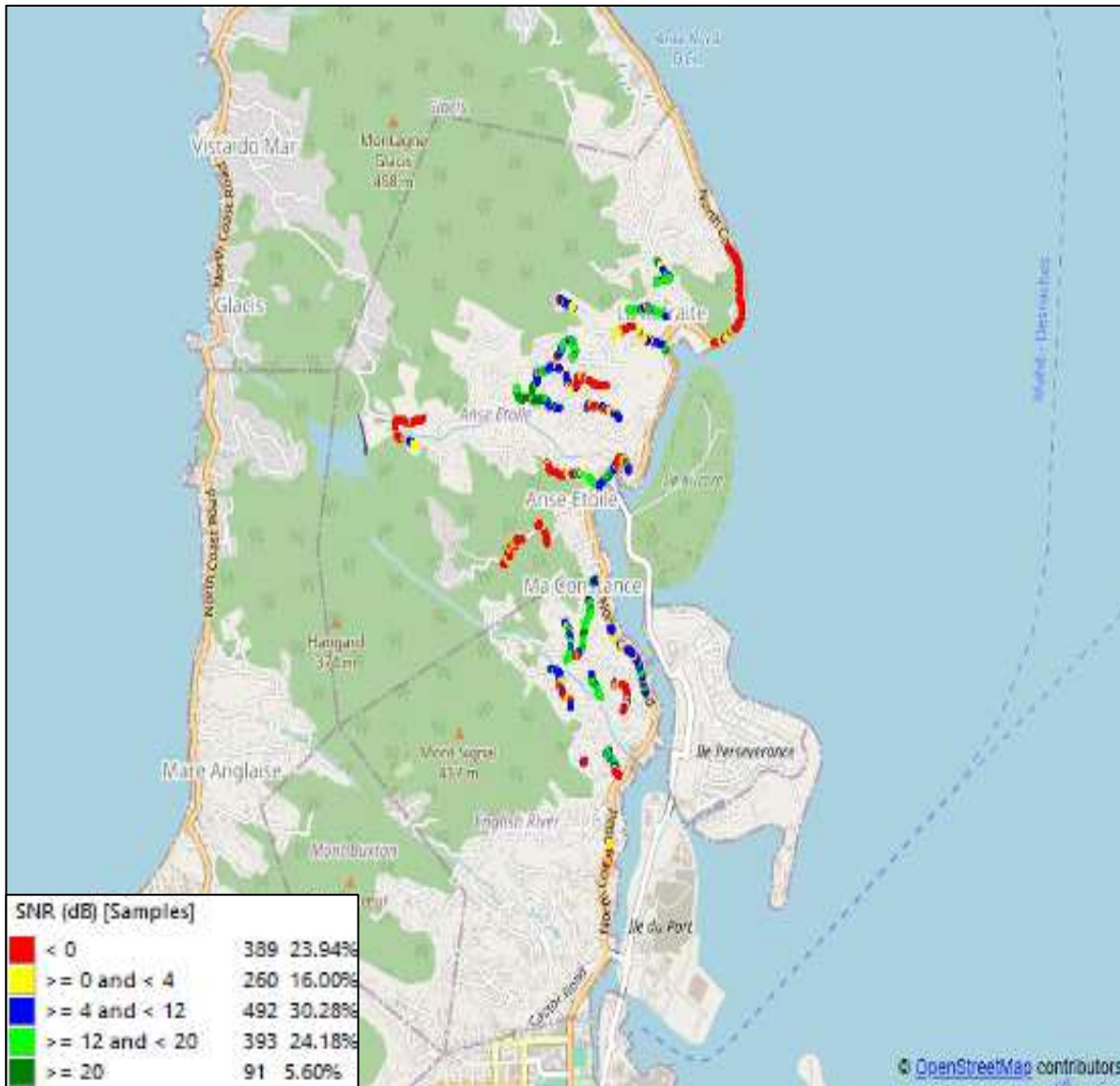


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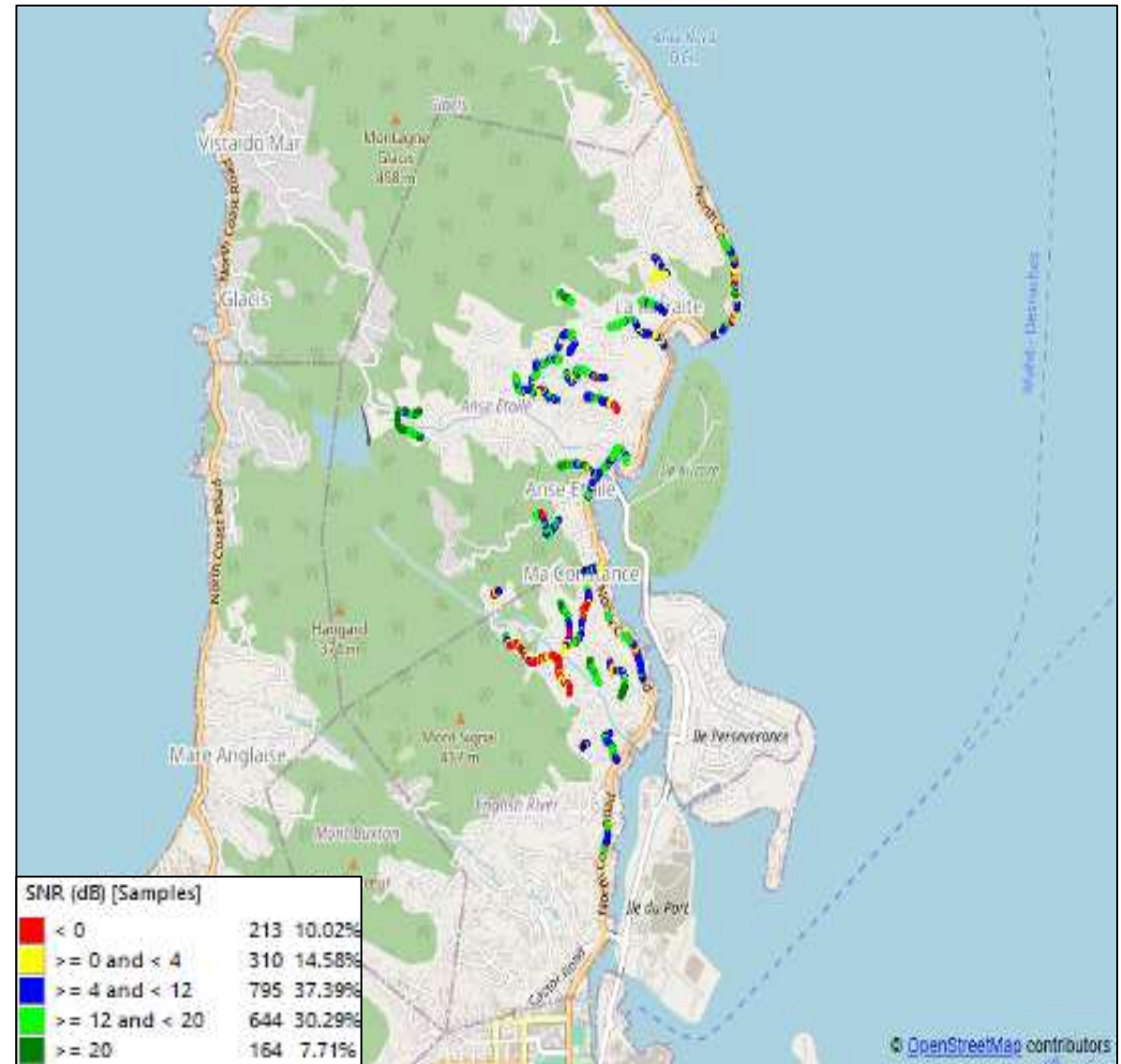
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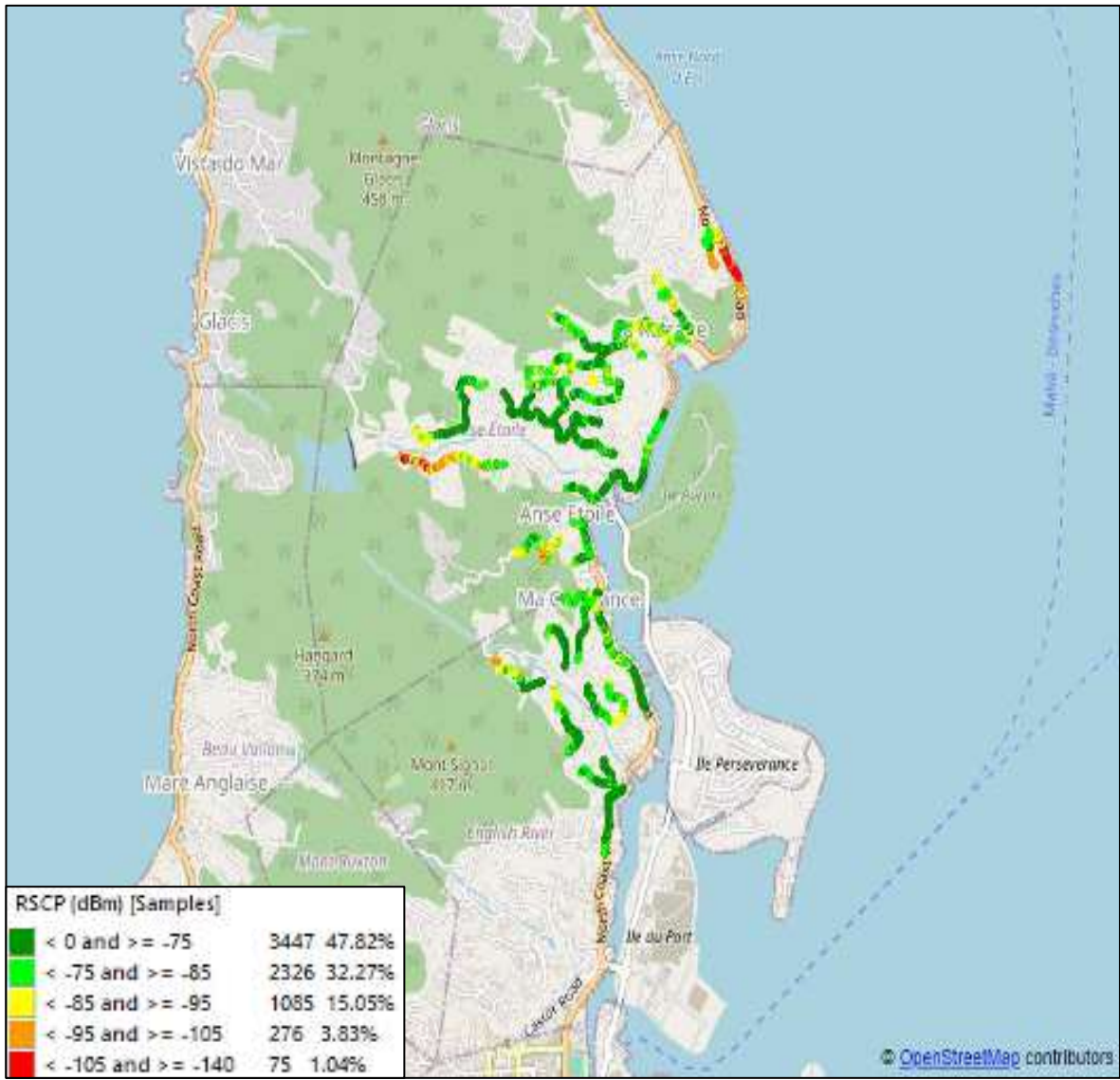
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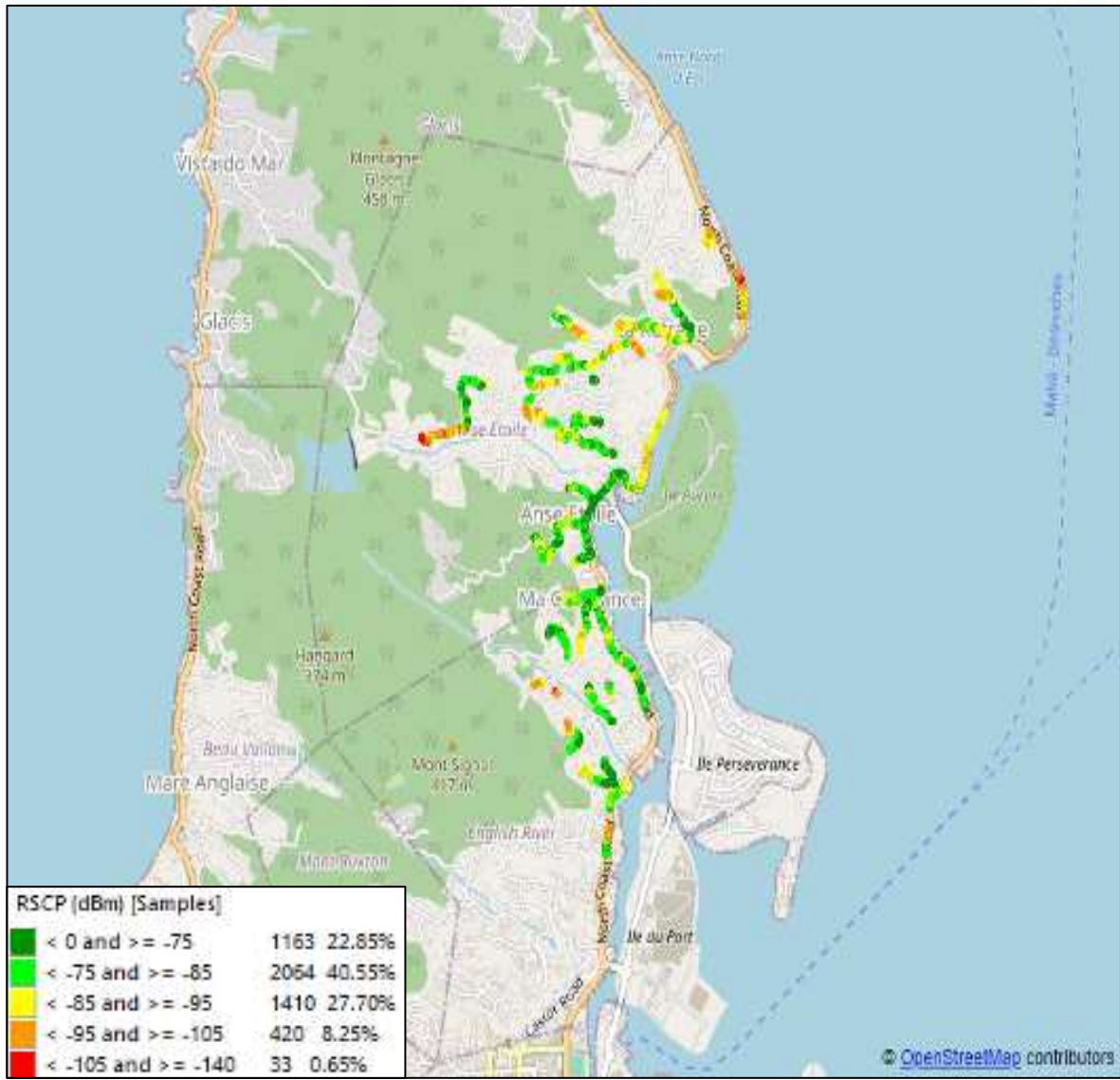
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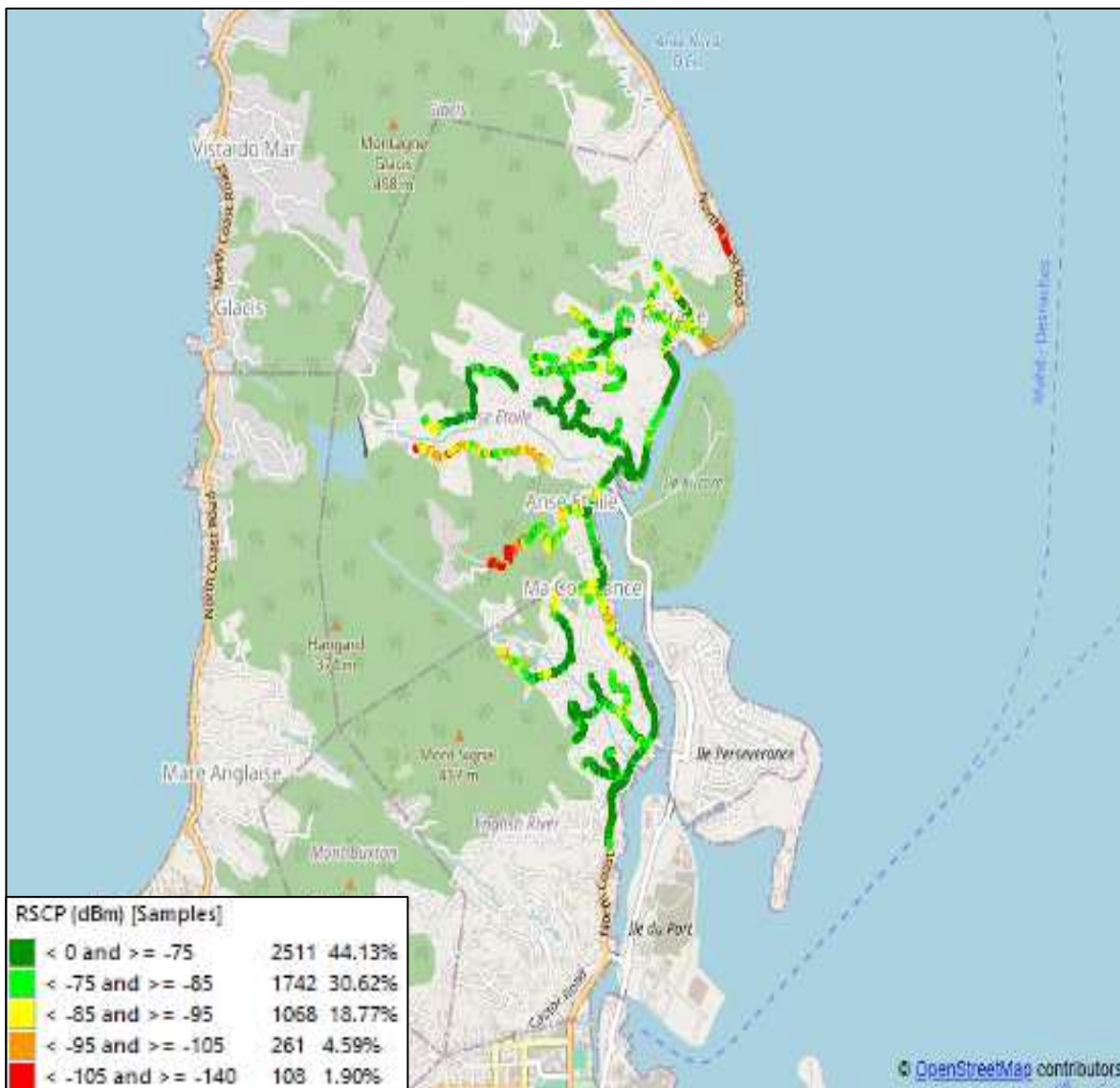
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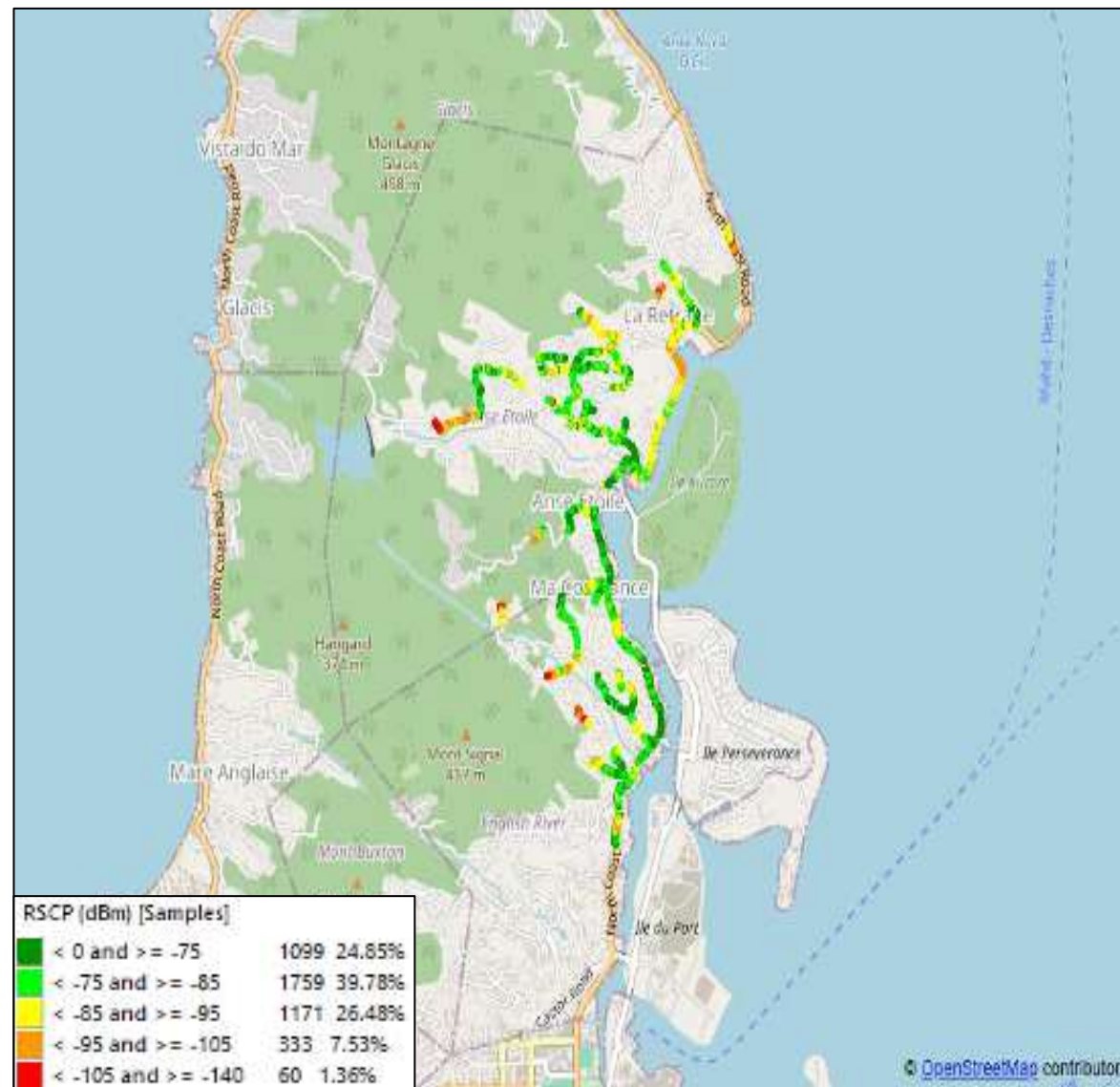
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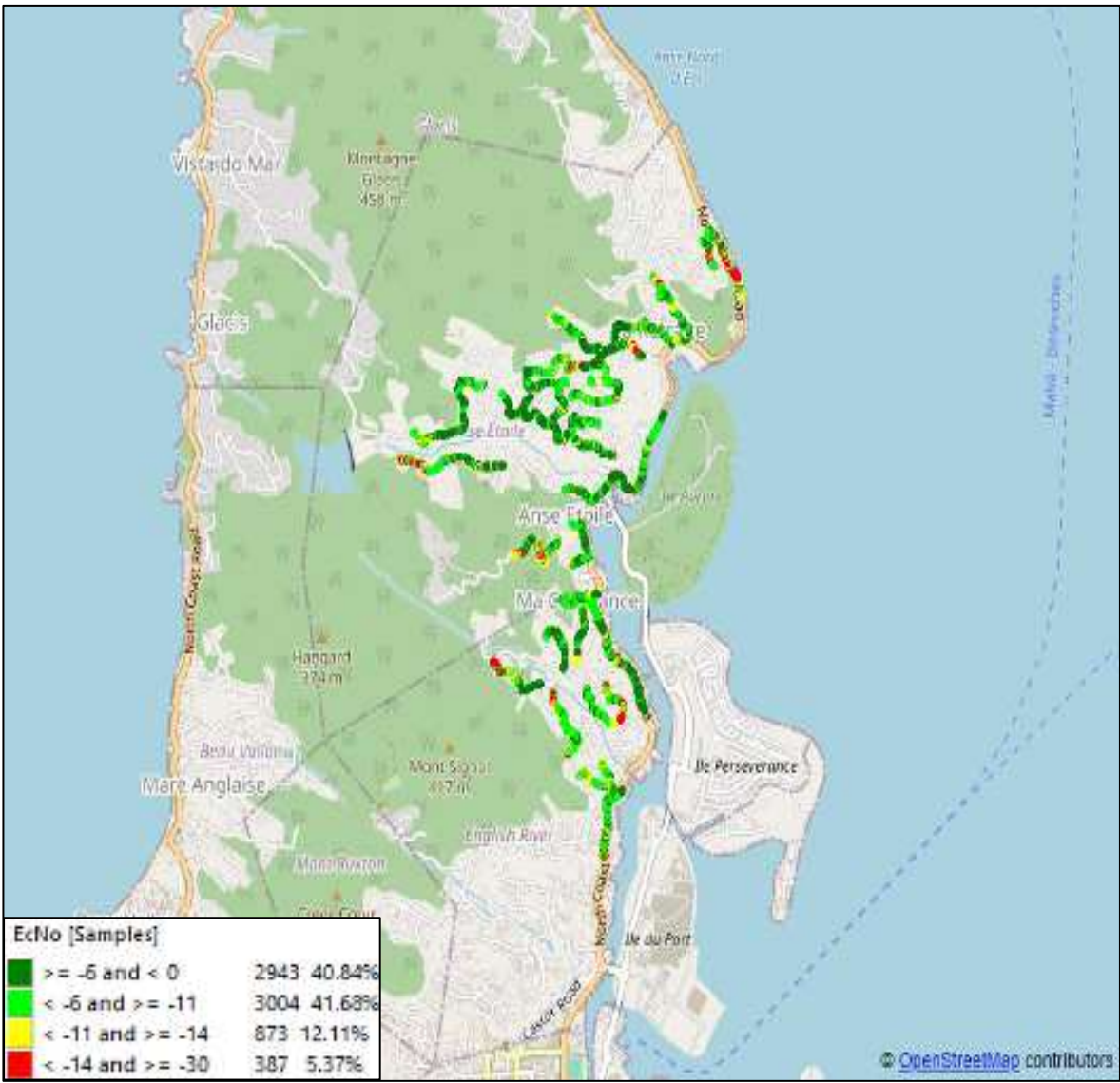
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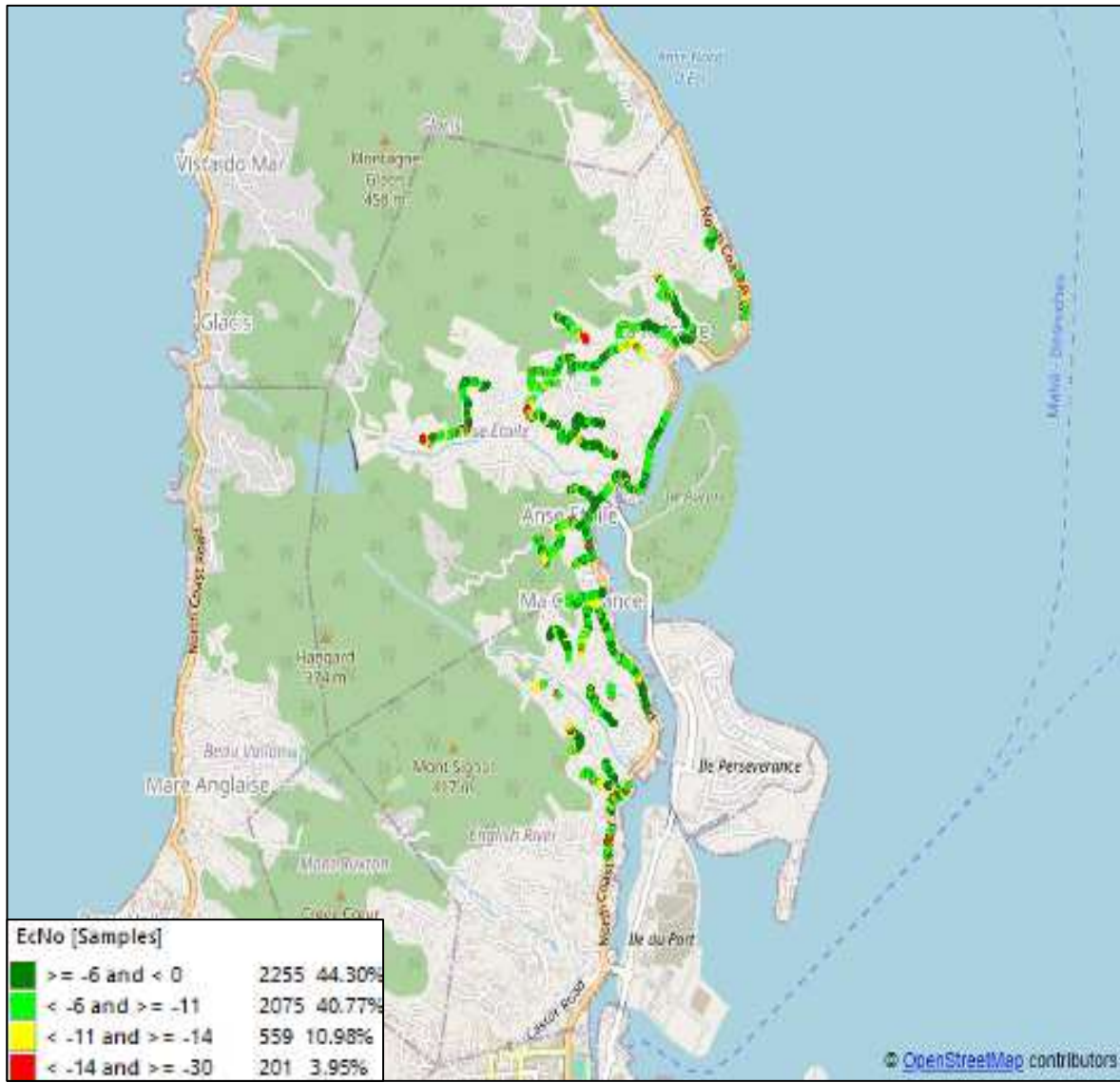
CWS LC MO



Airtel LC MO

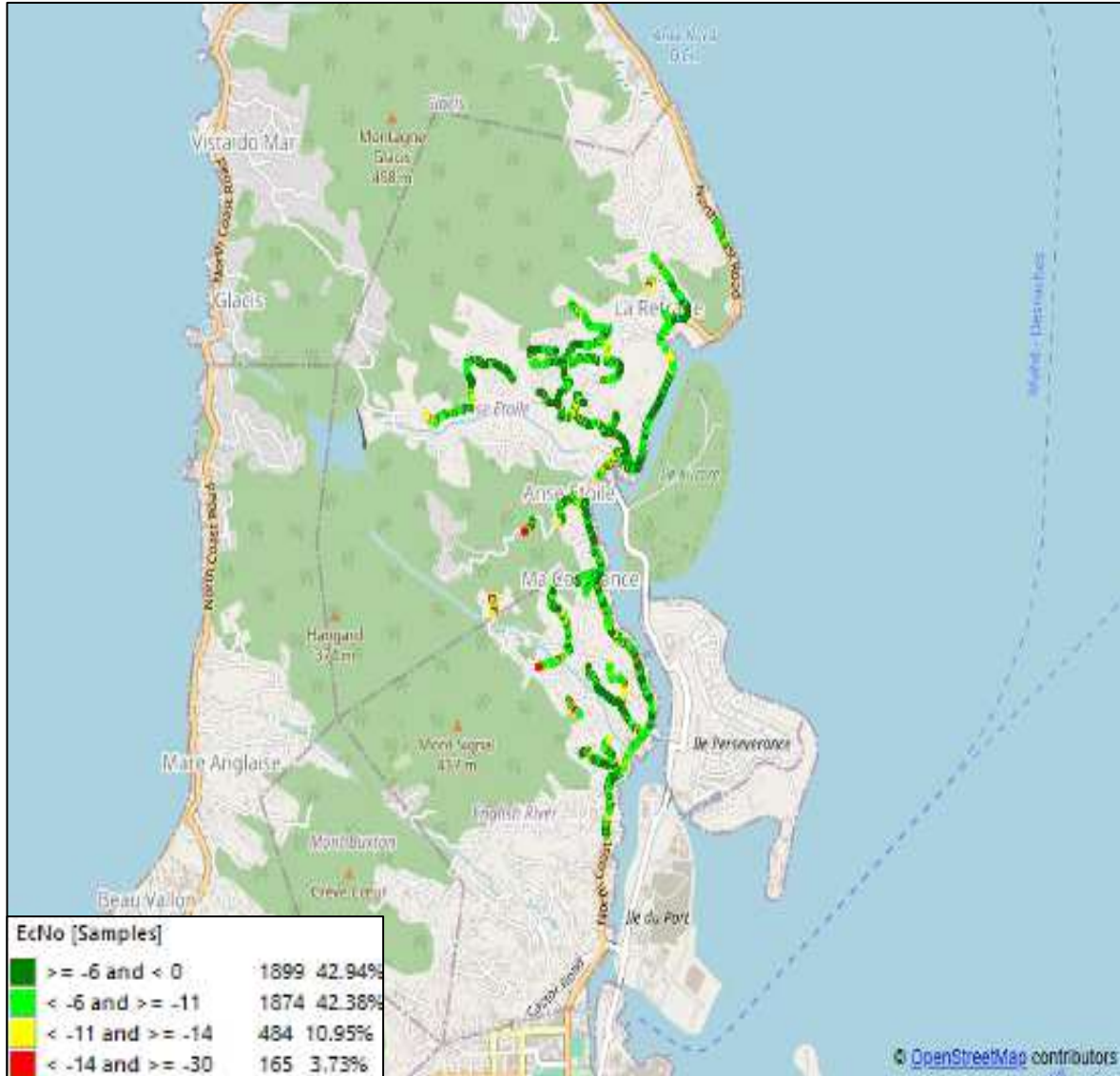
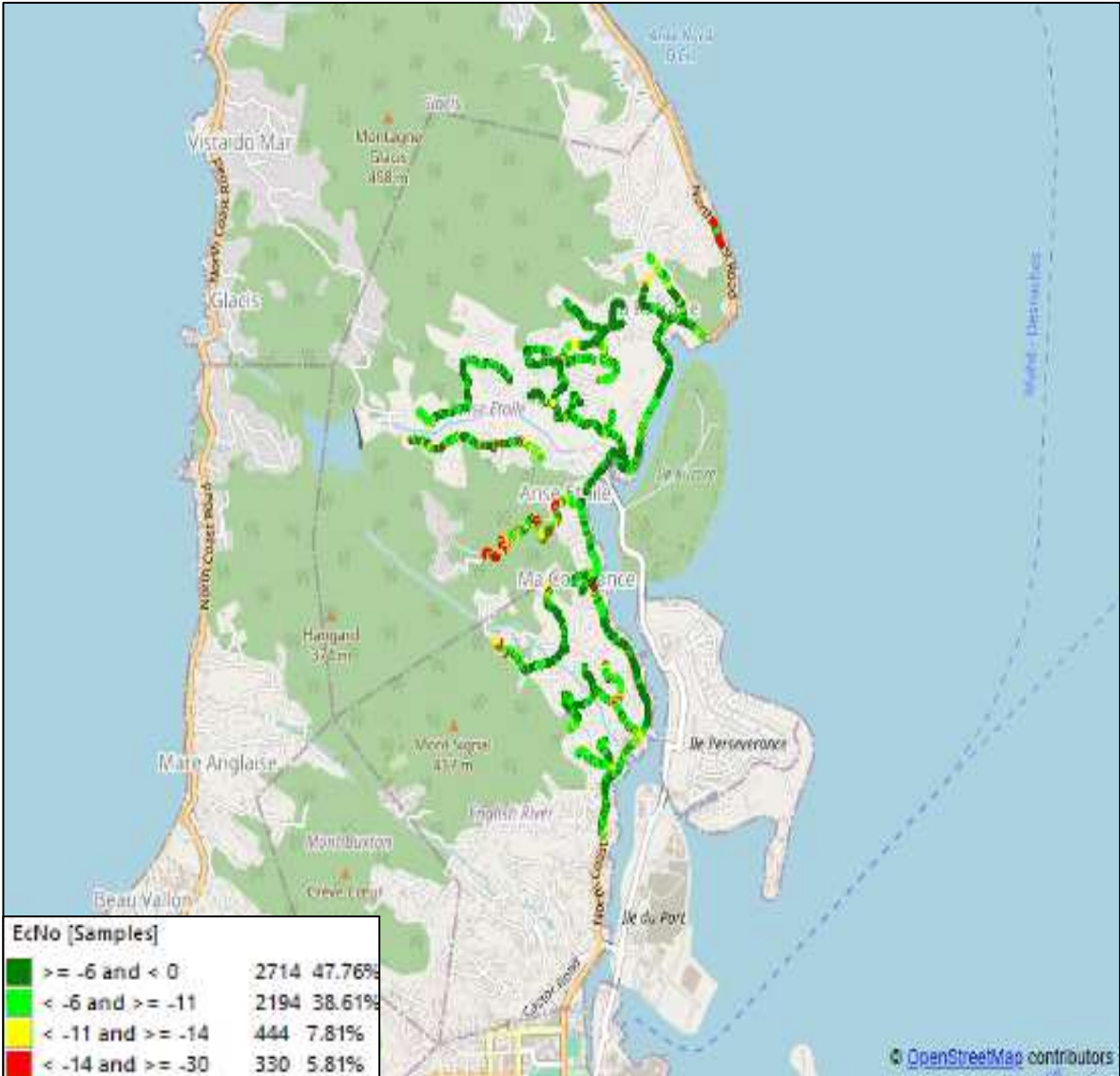


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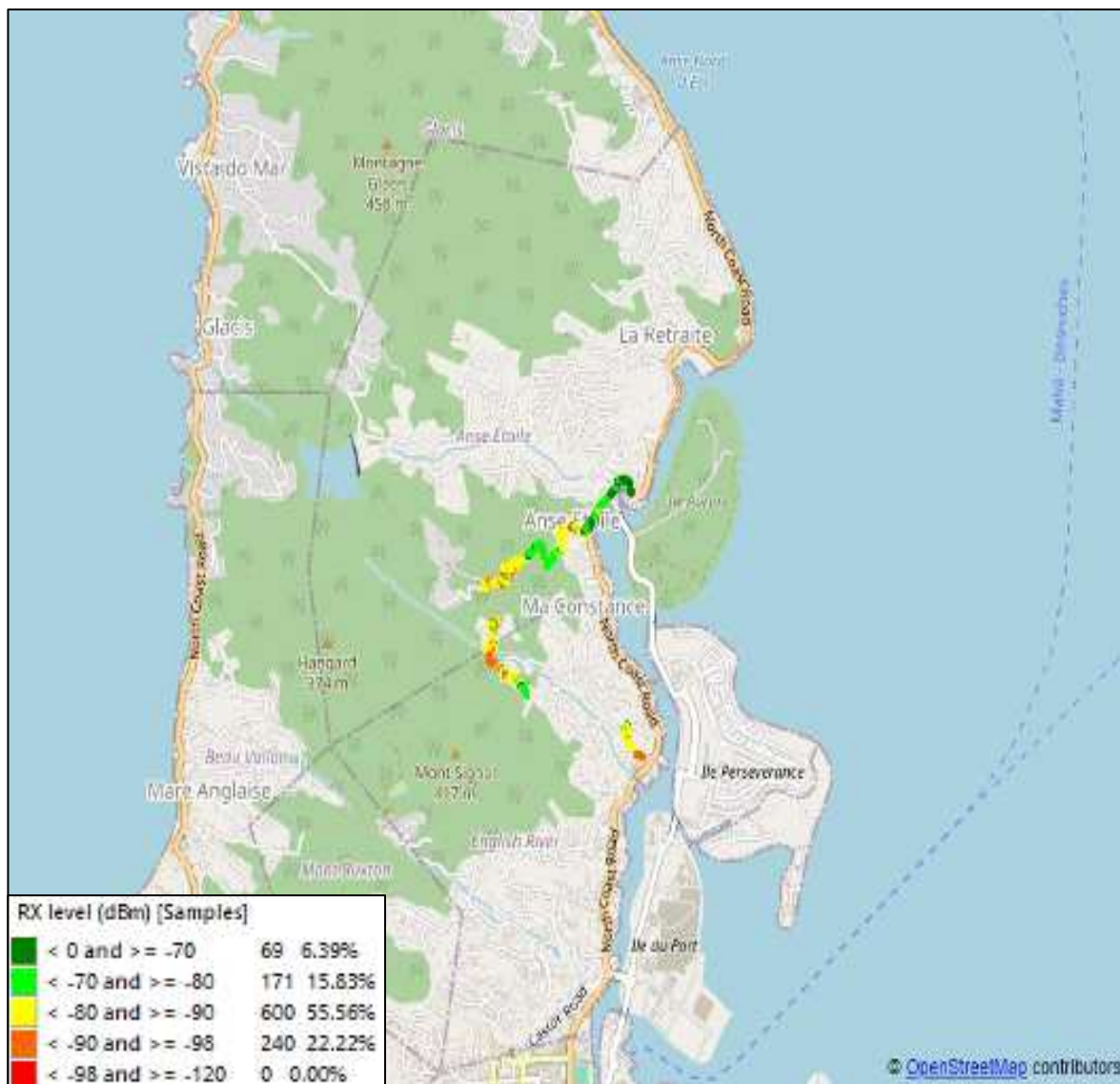


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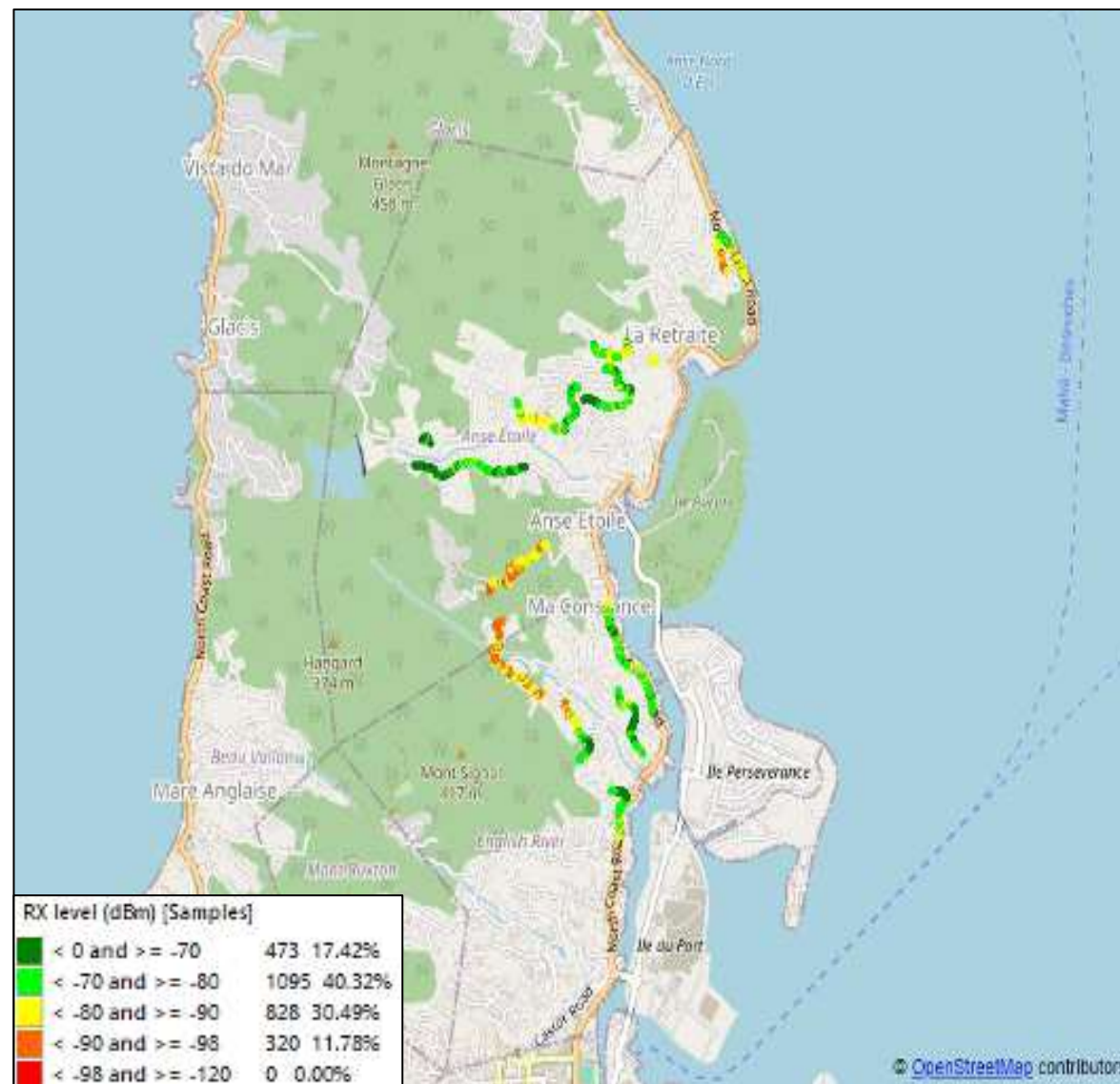
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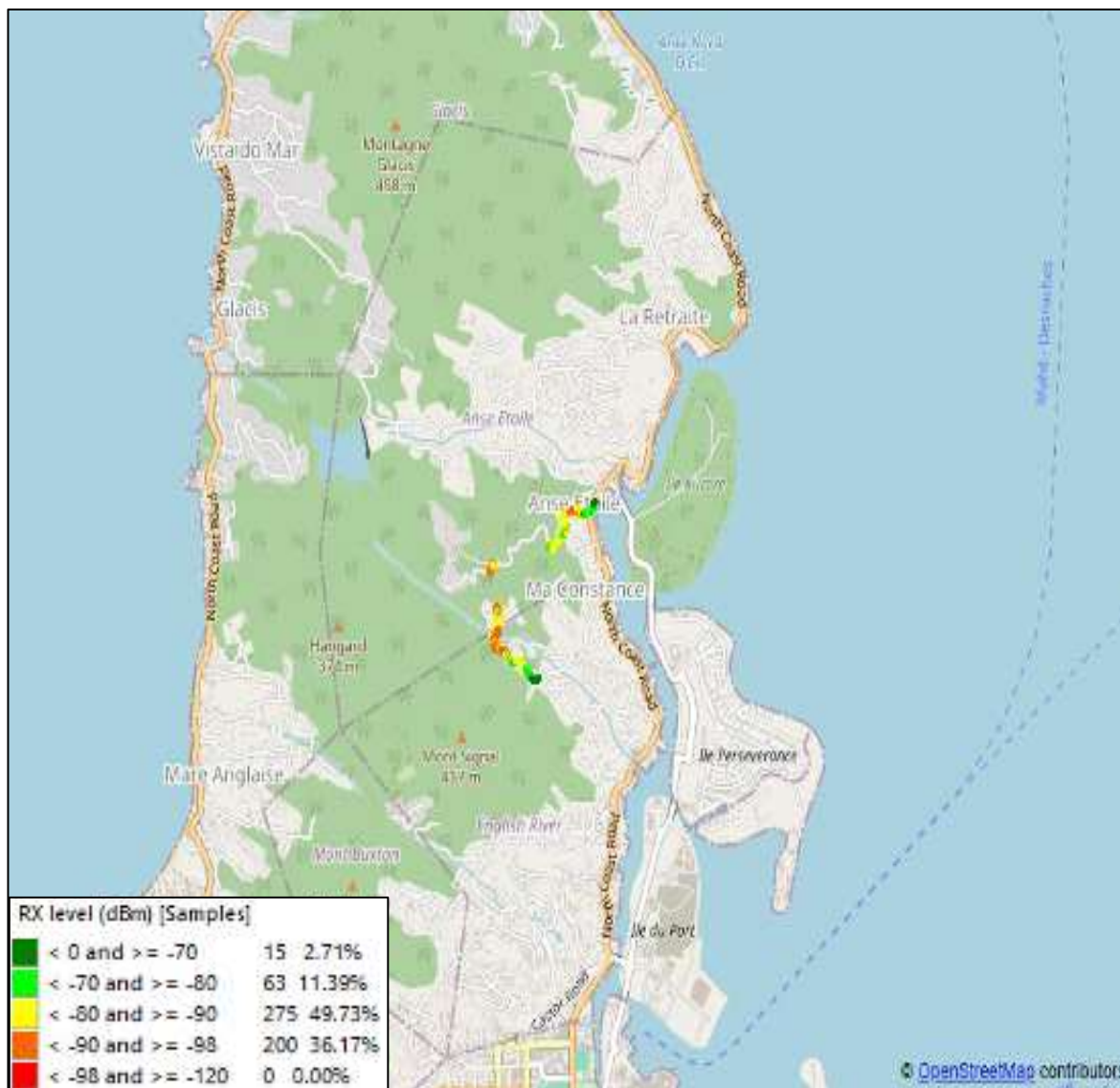
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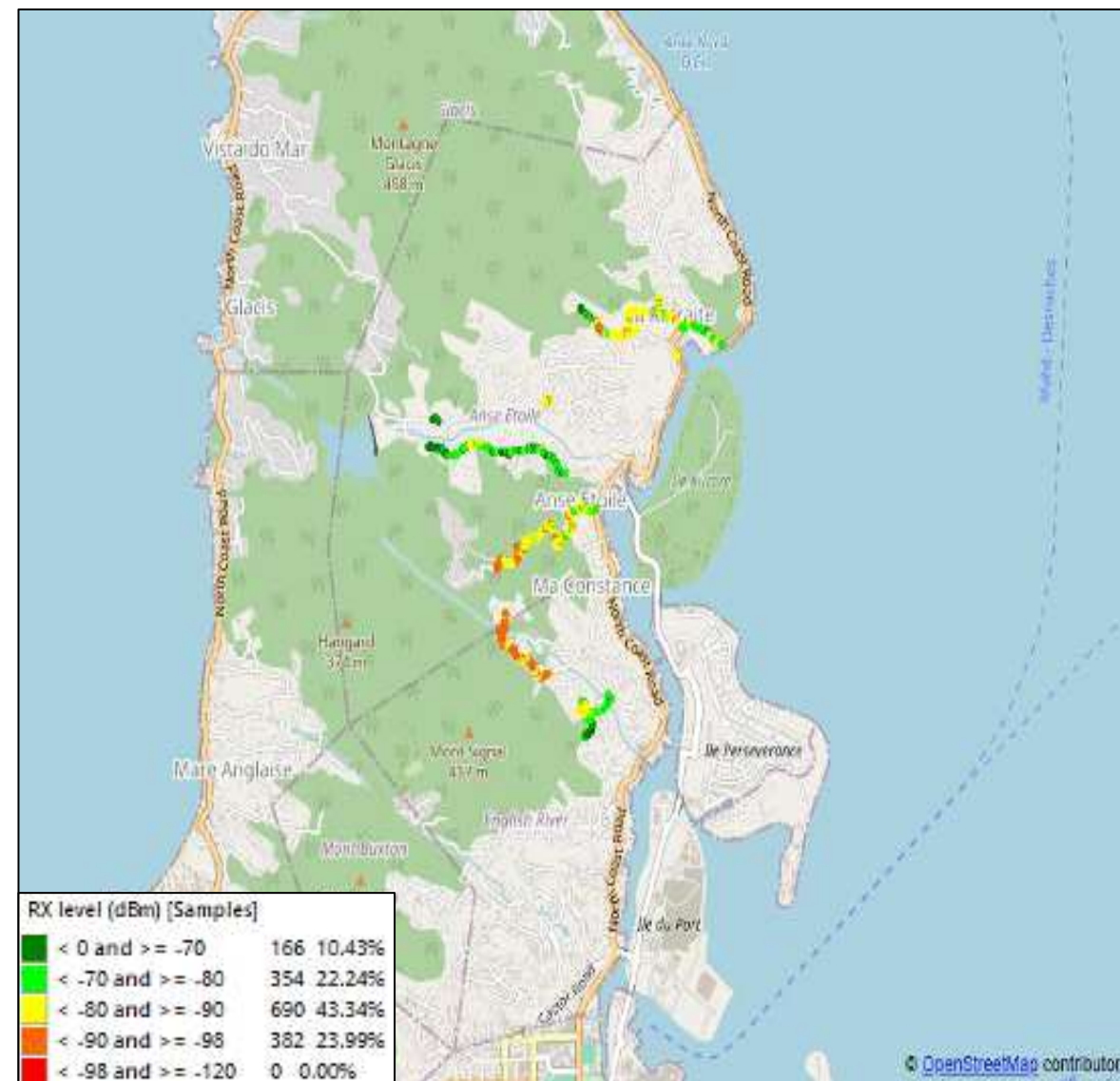
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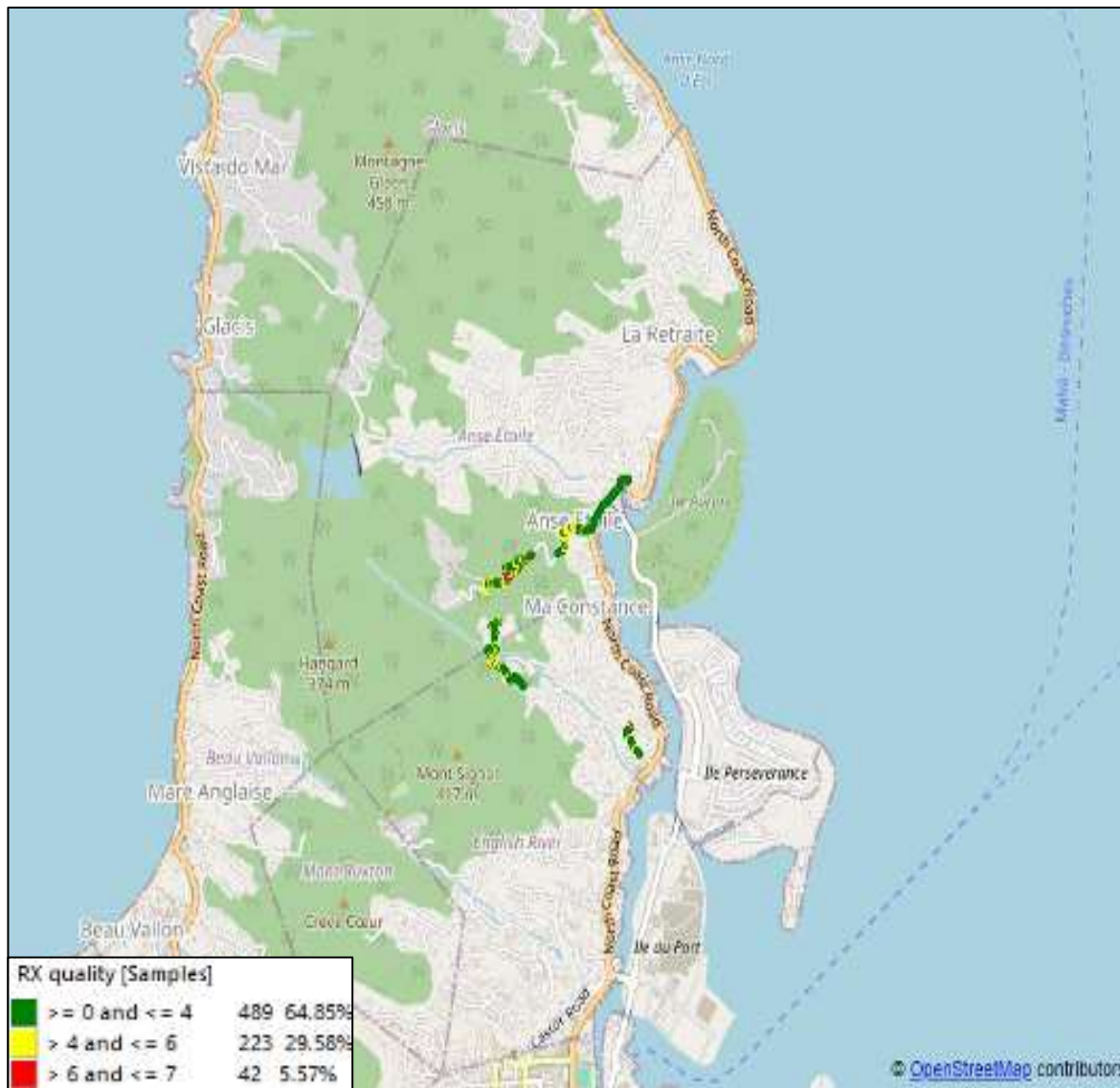
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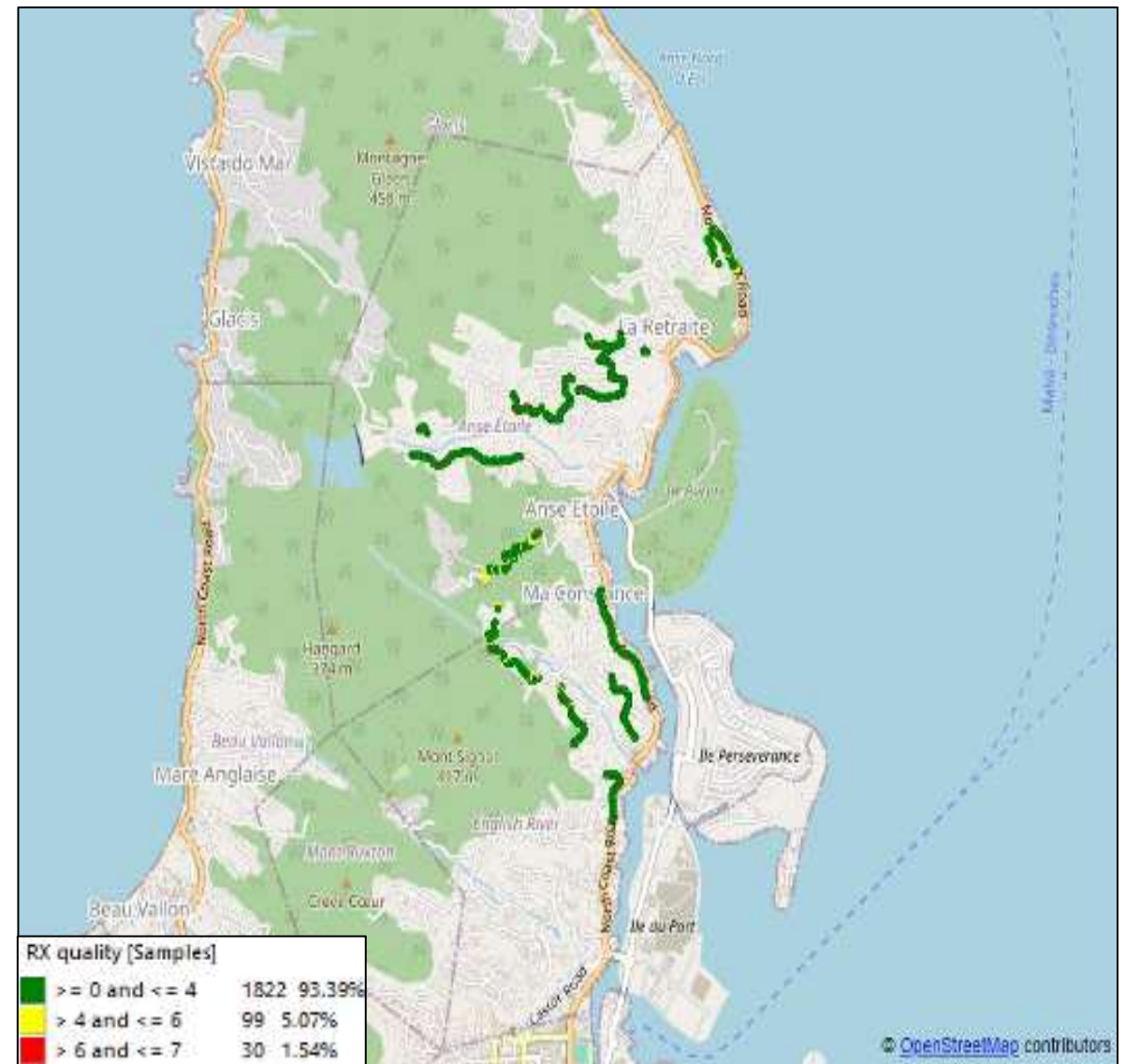
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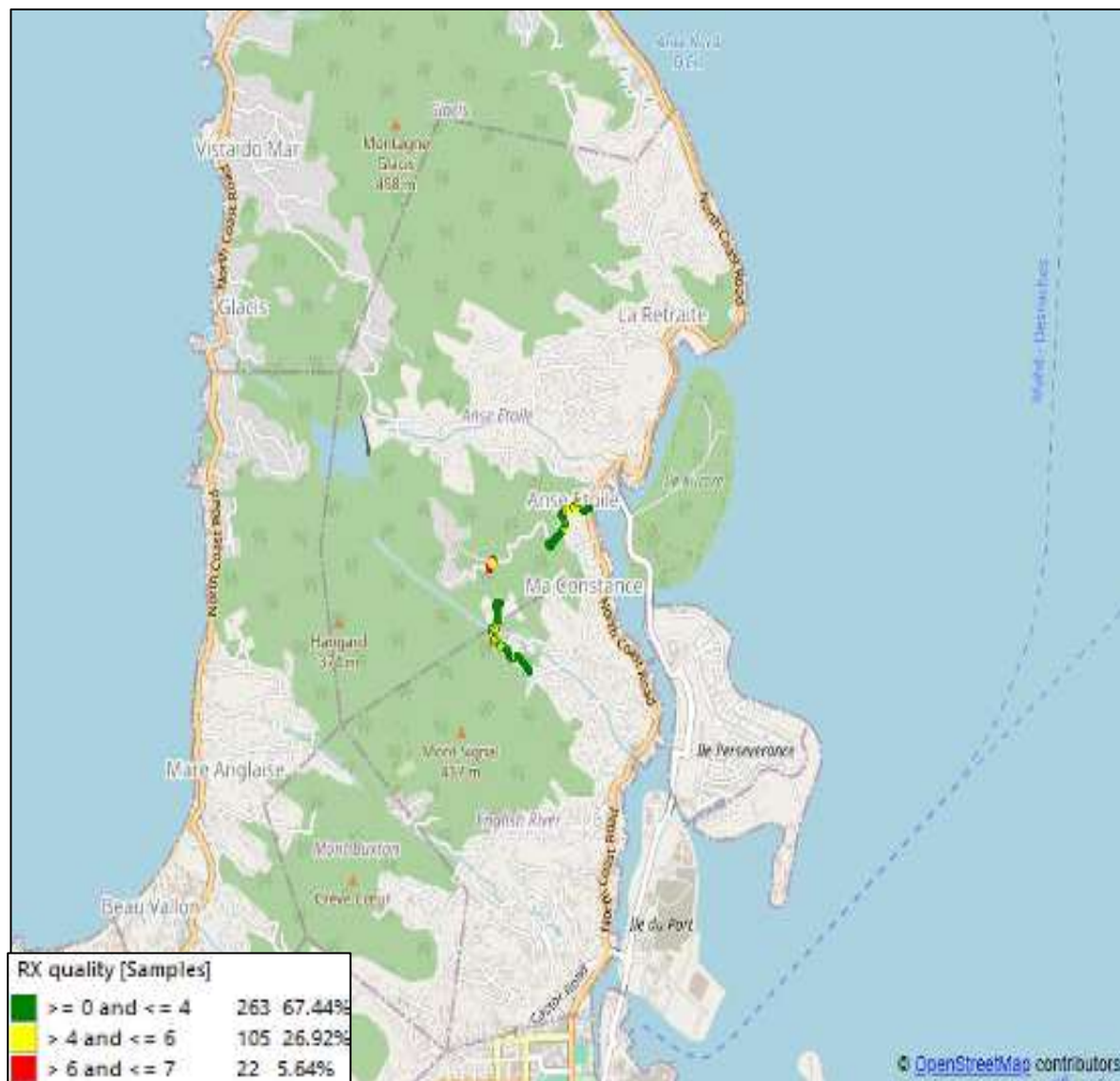
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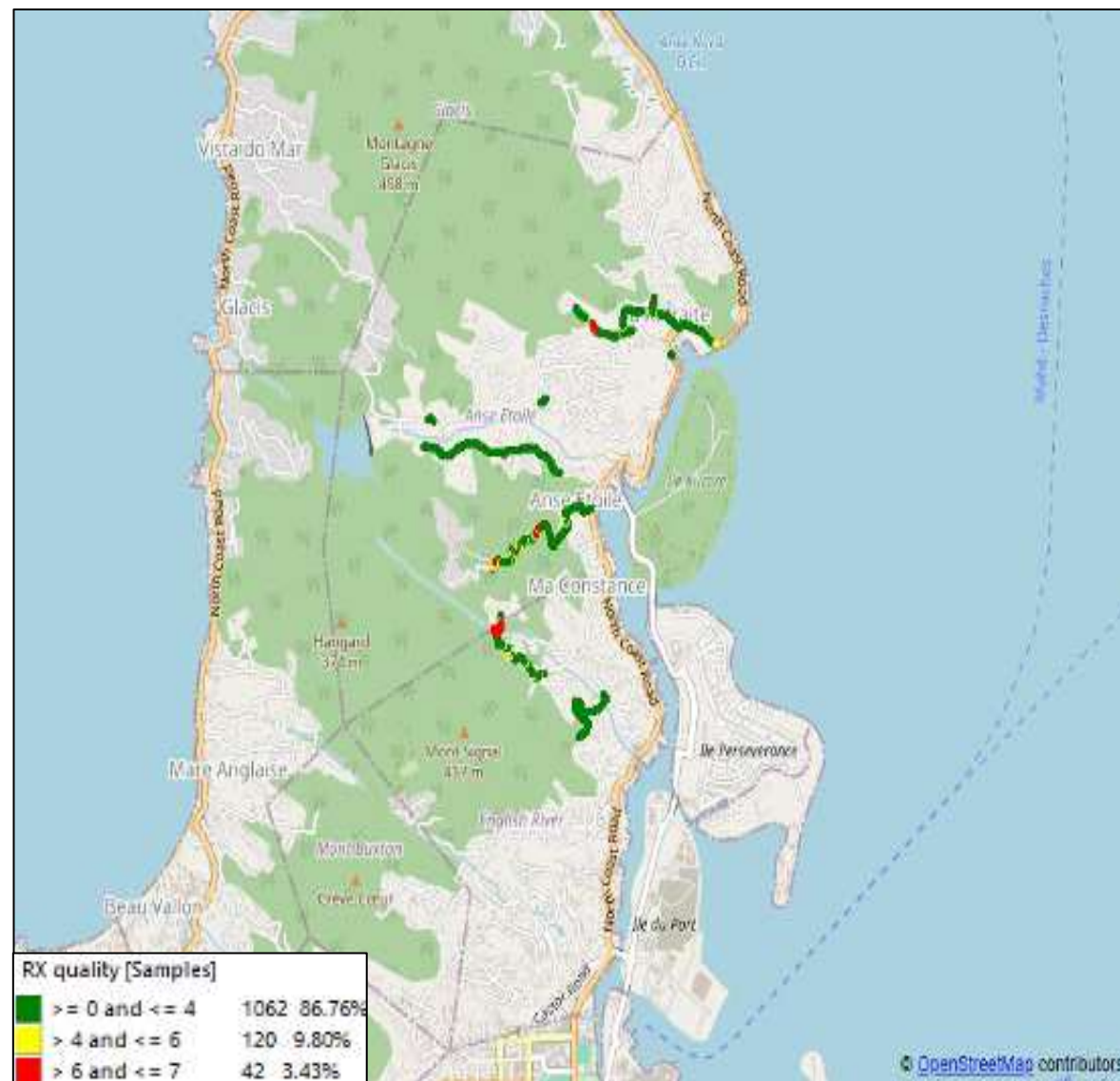
CWS LC MO



Airtel LC MO

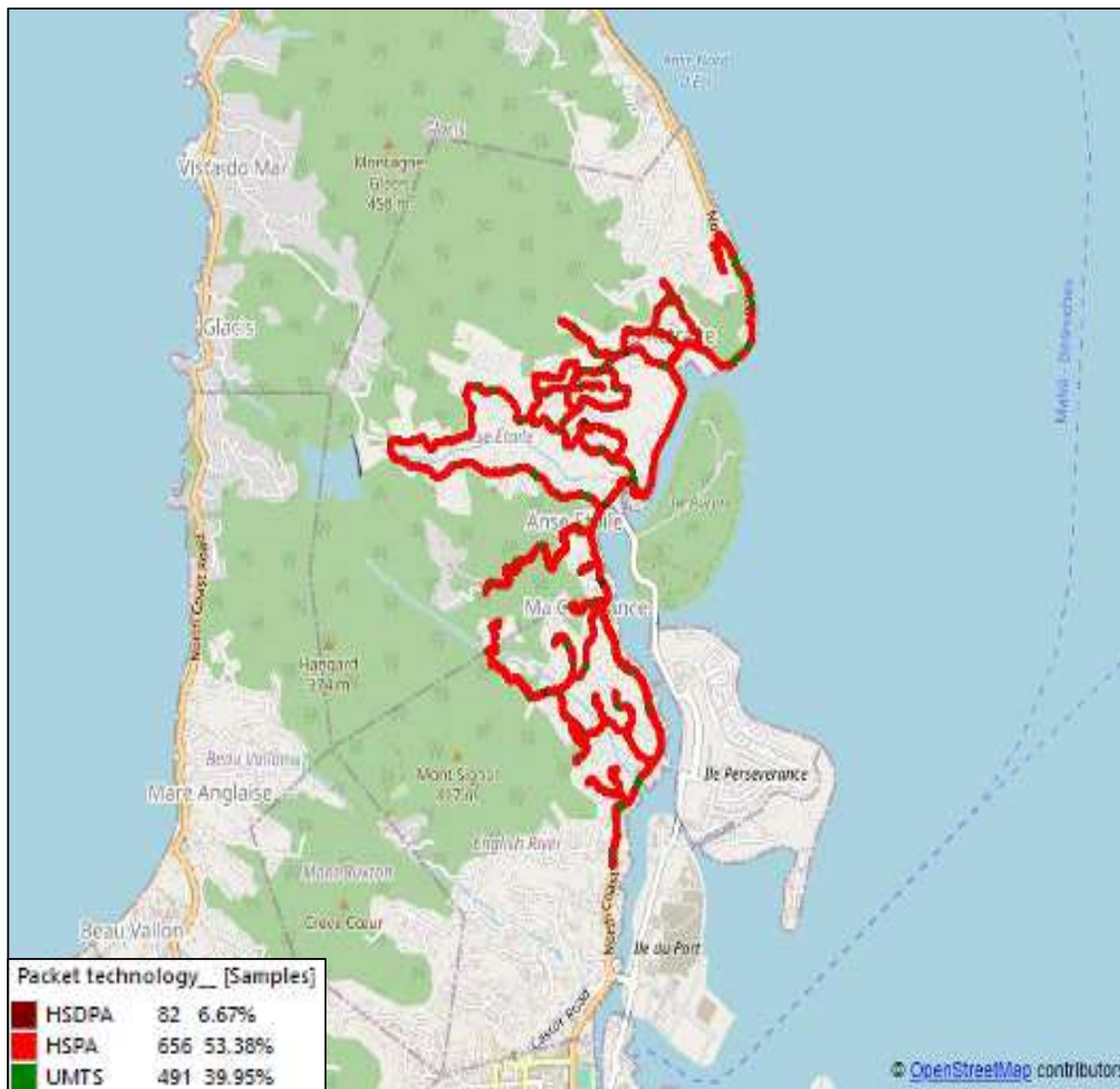


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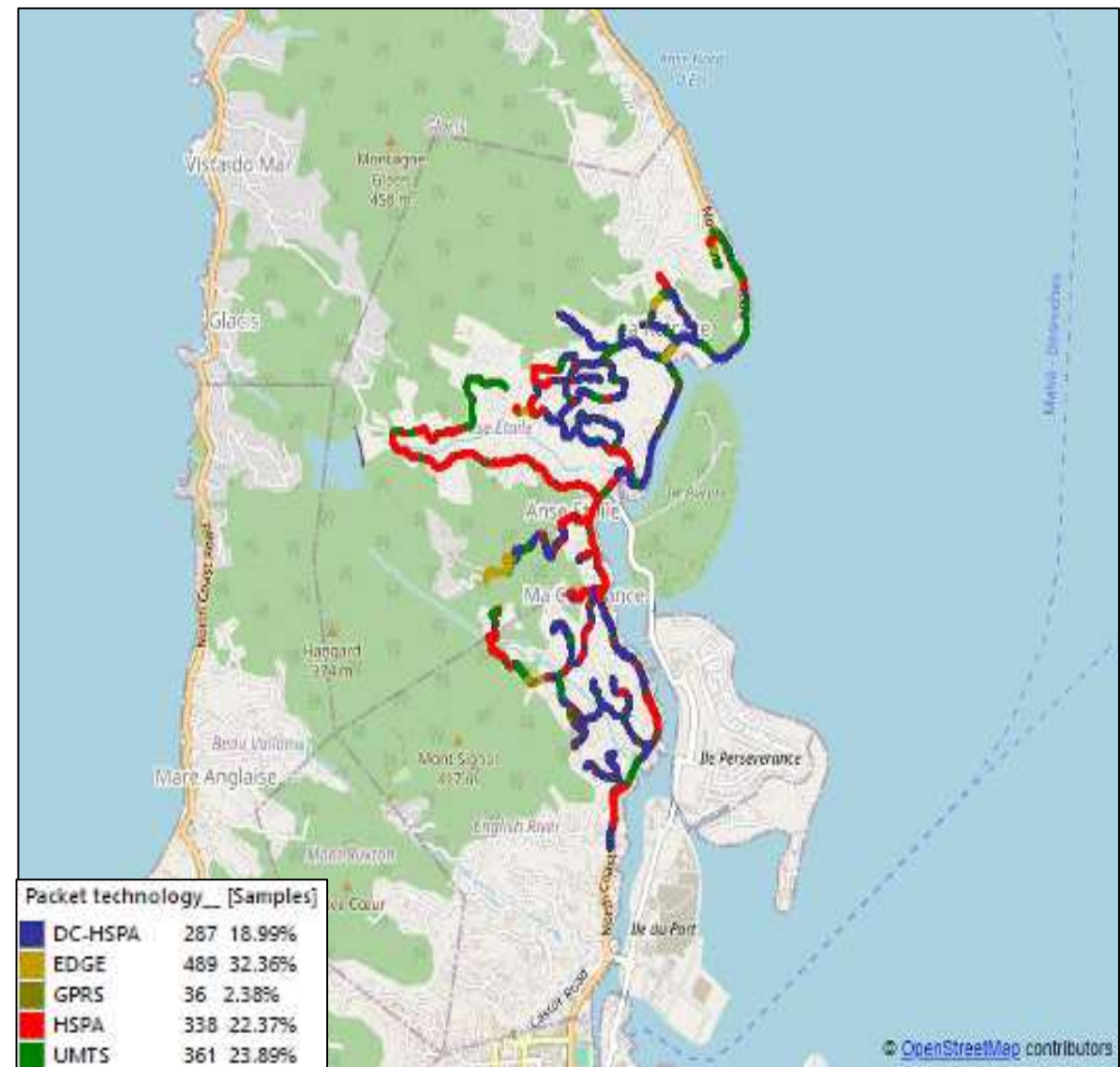


3G PREFERRED DATA DRIVE PLOTS

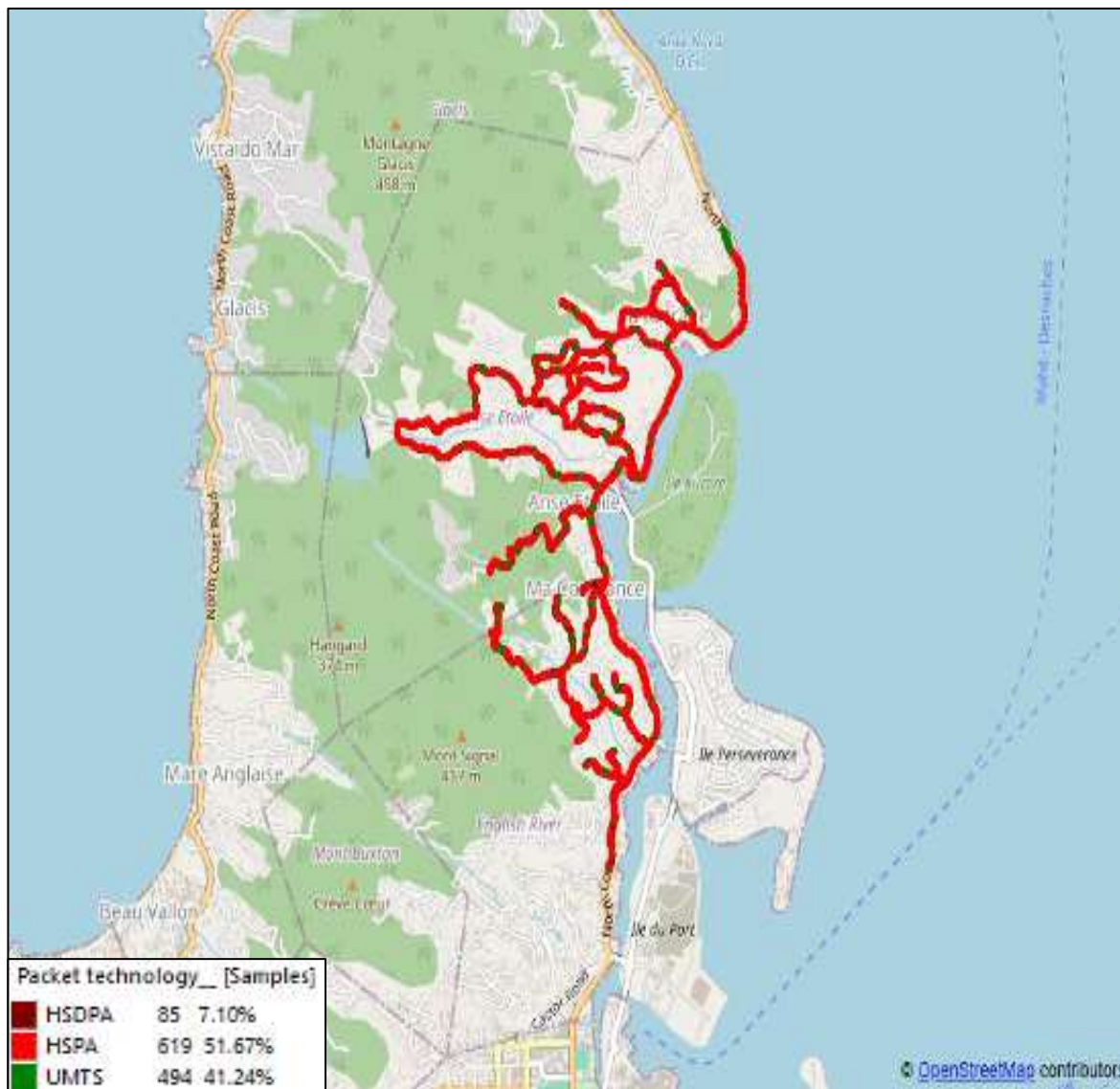
Airtel Data 3G



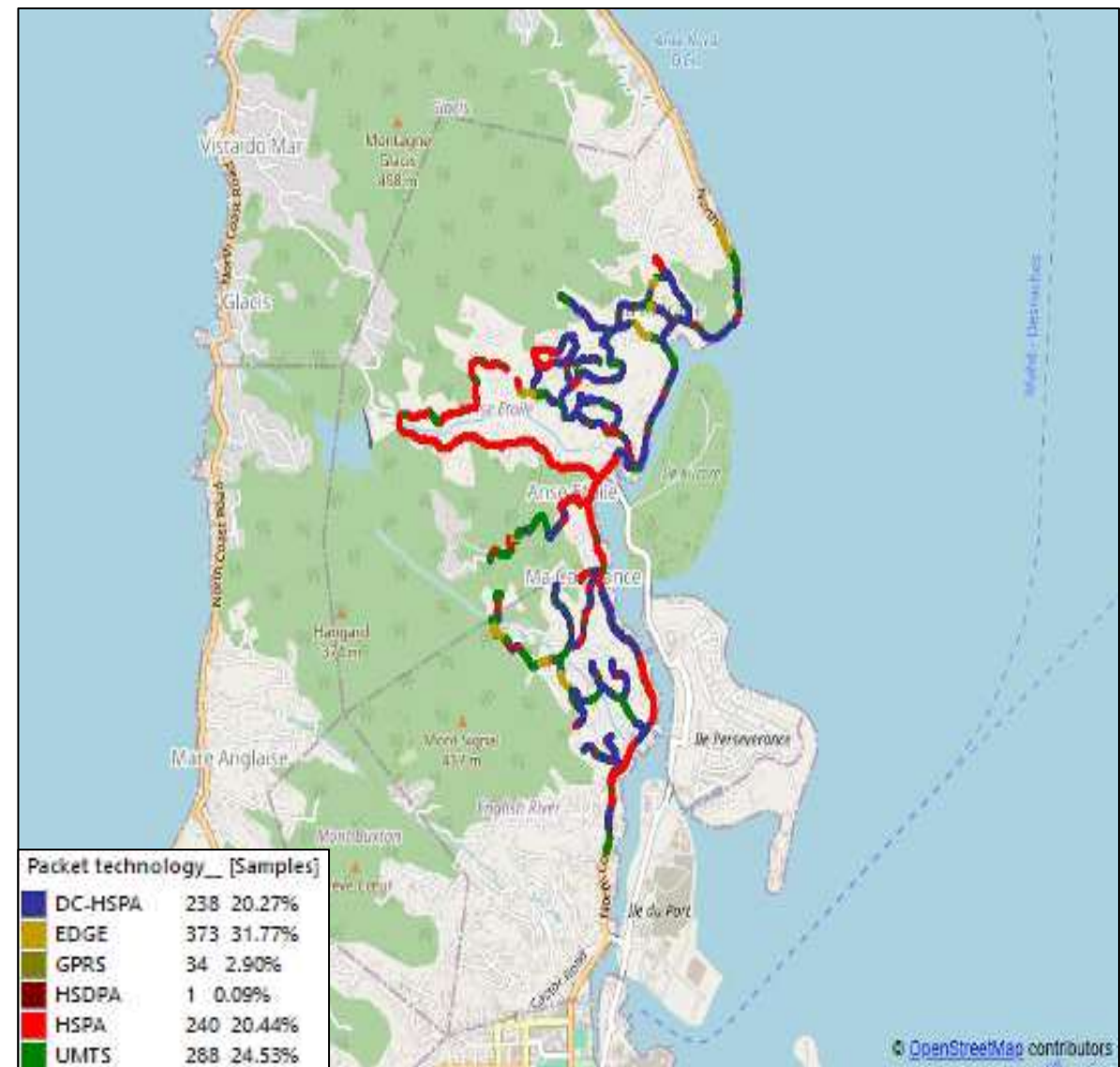
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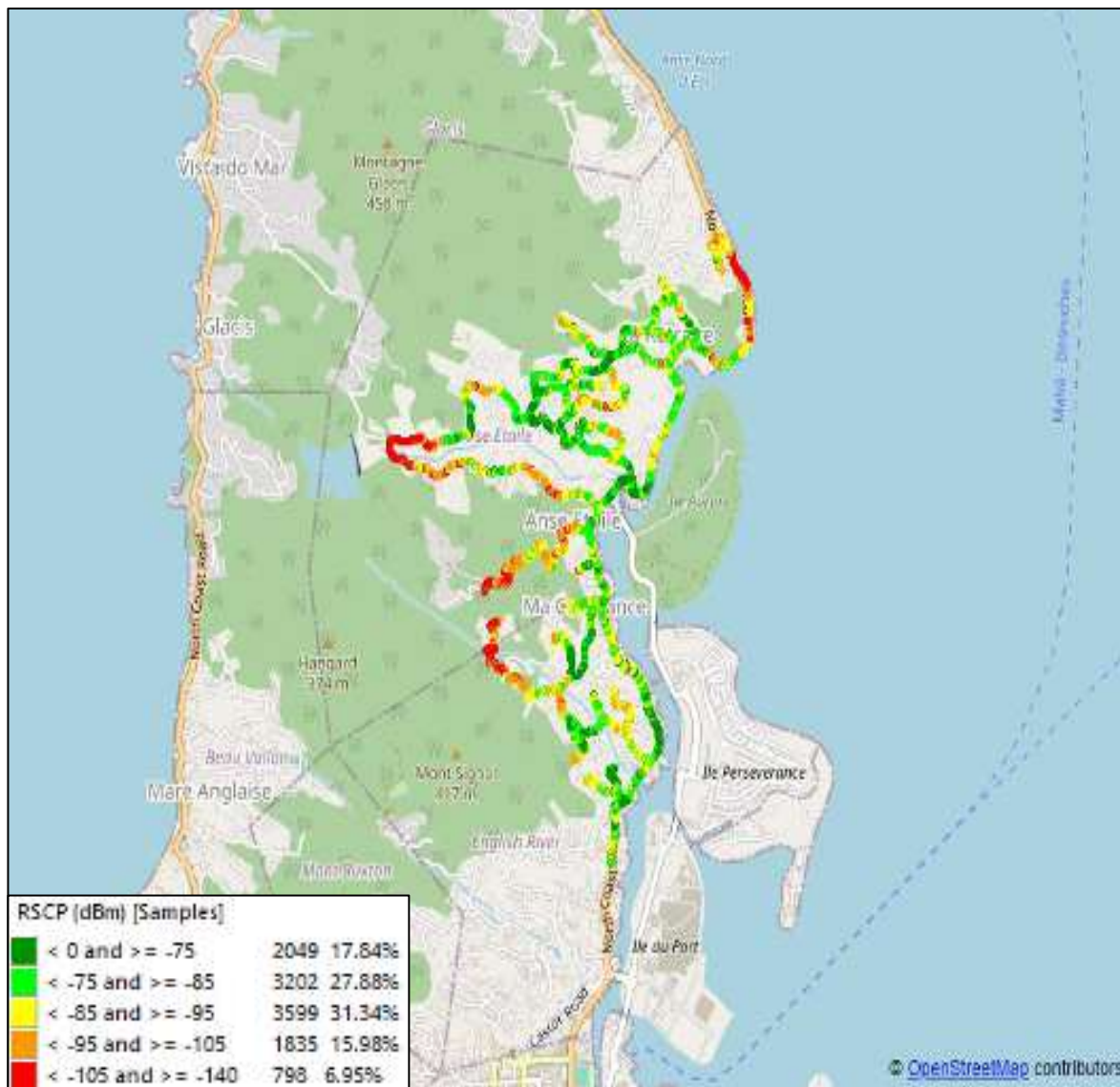
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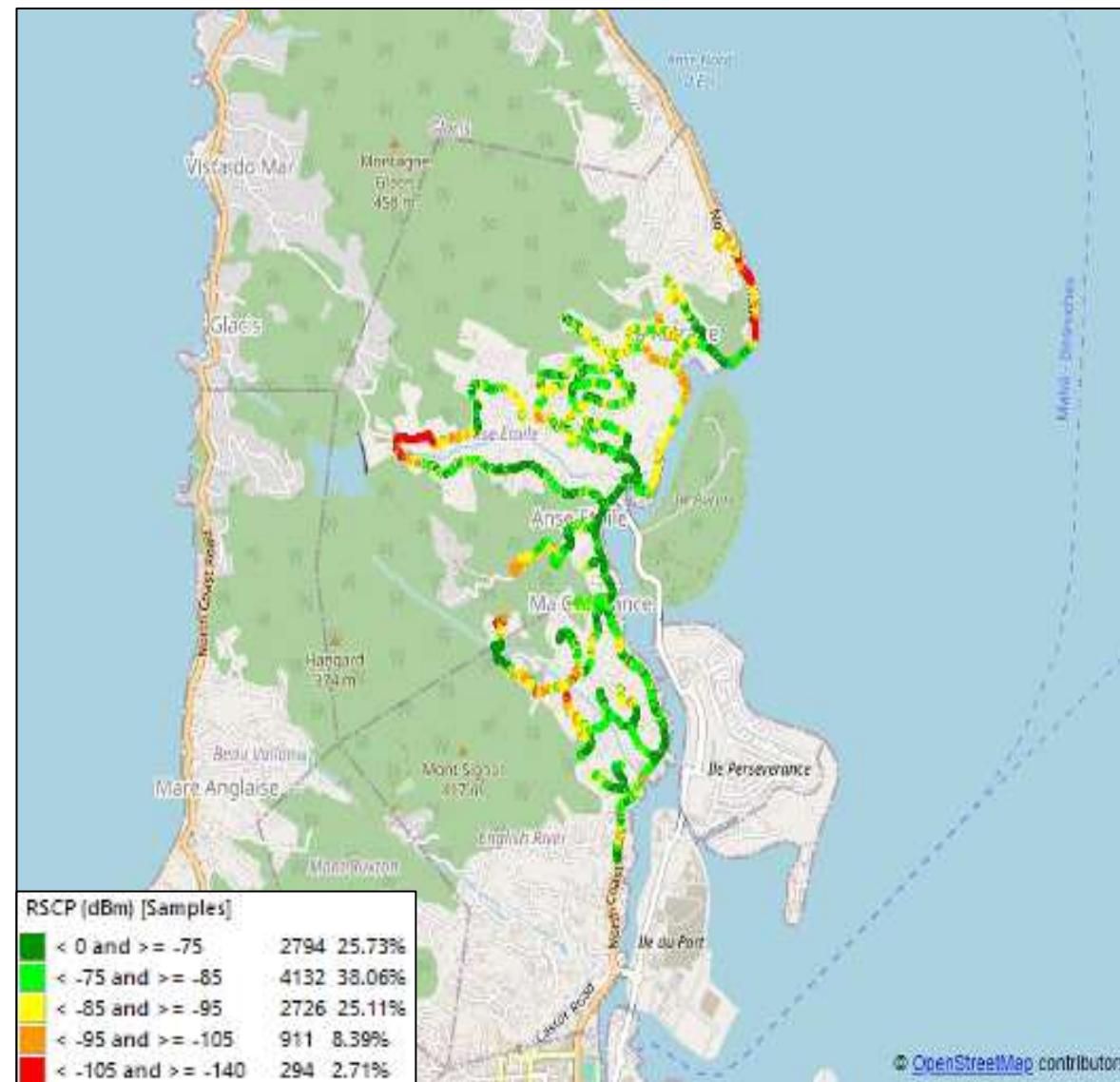
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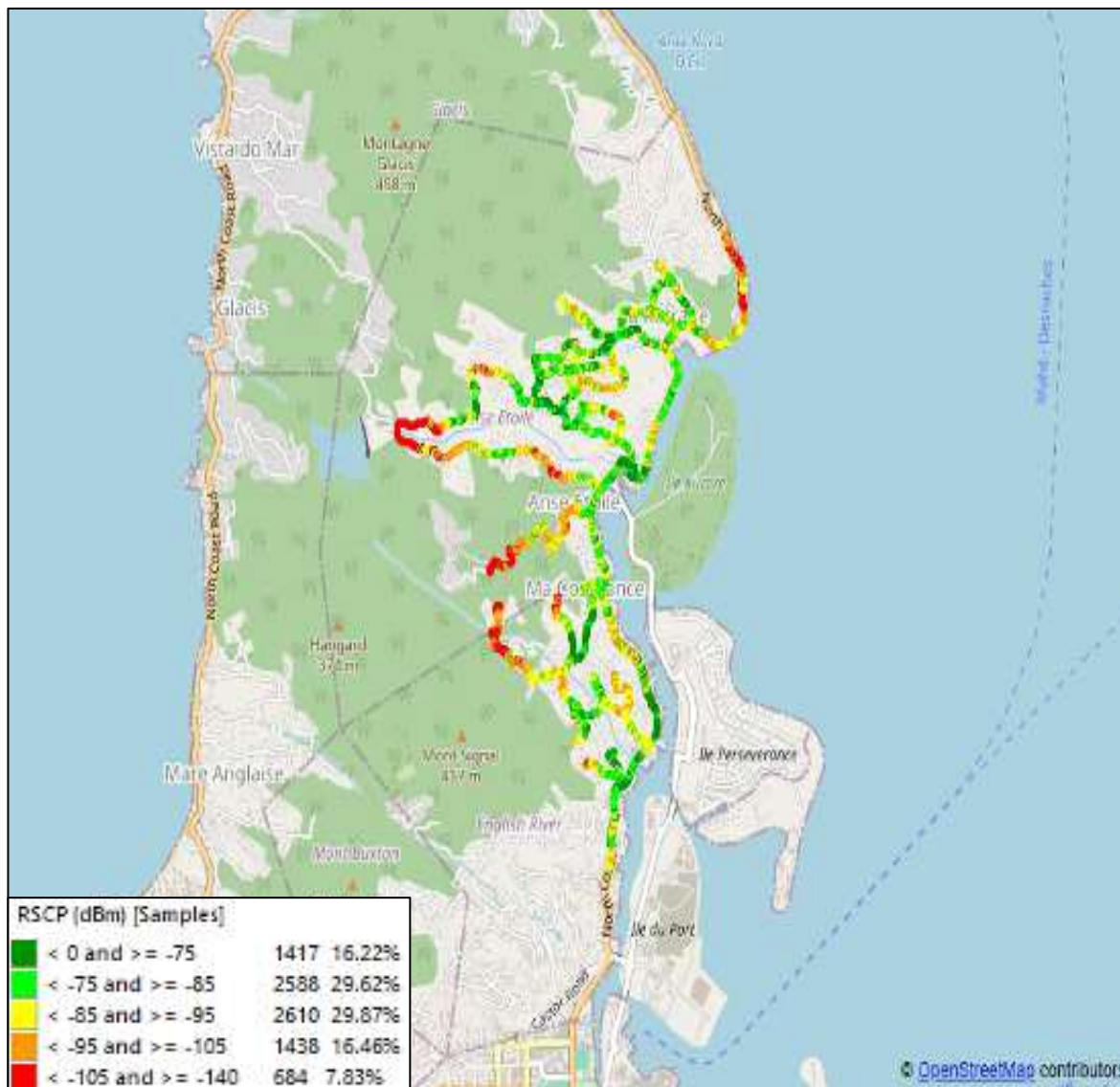
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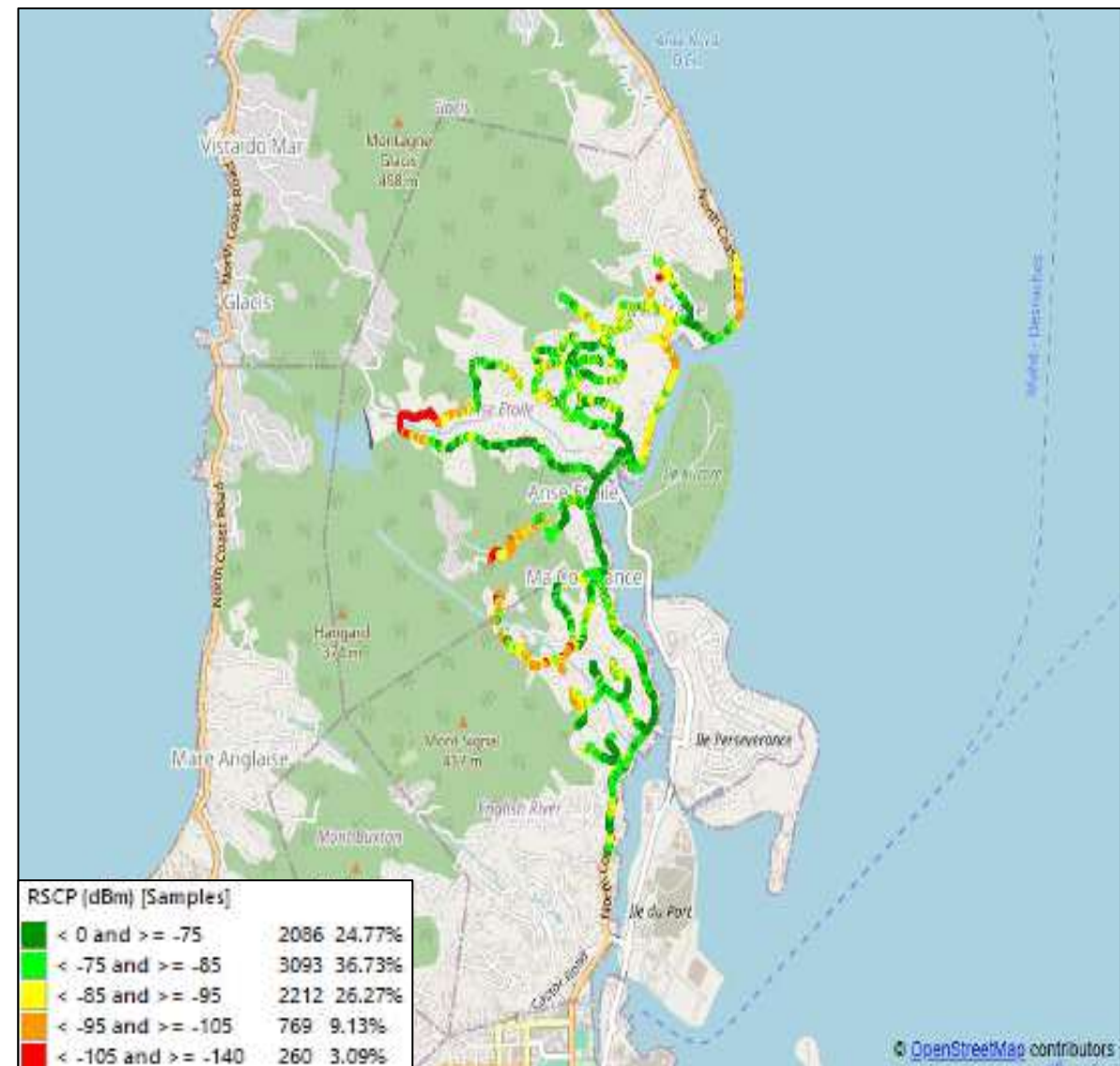
CWS Data 3G



Airtel Data 3G

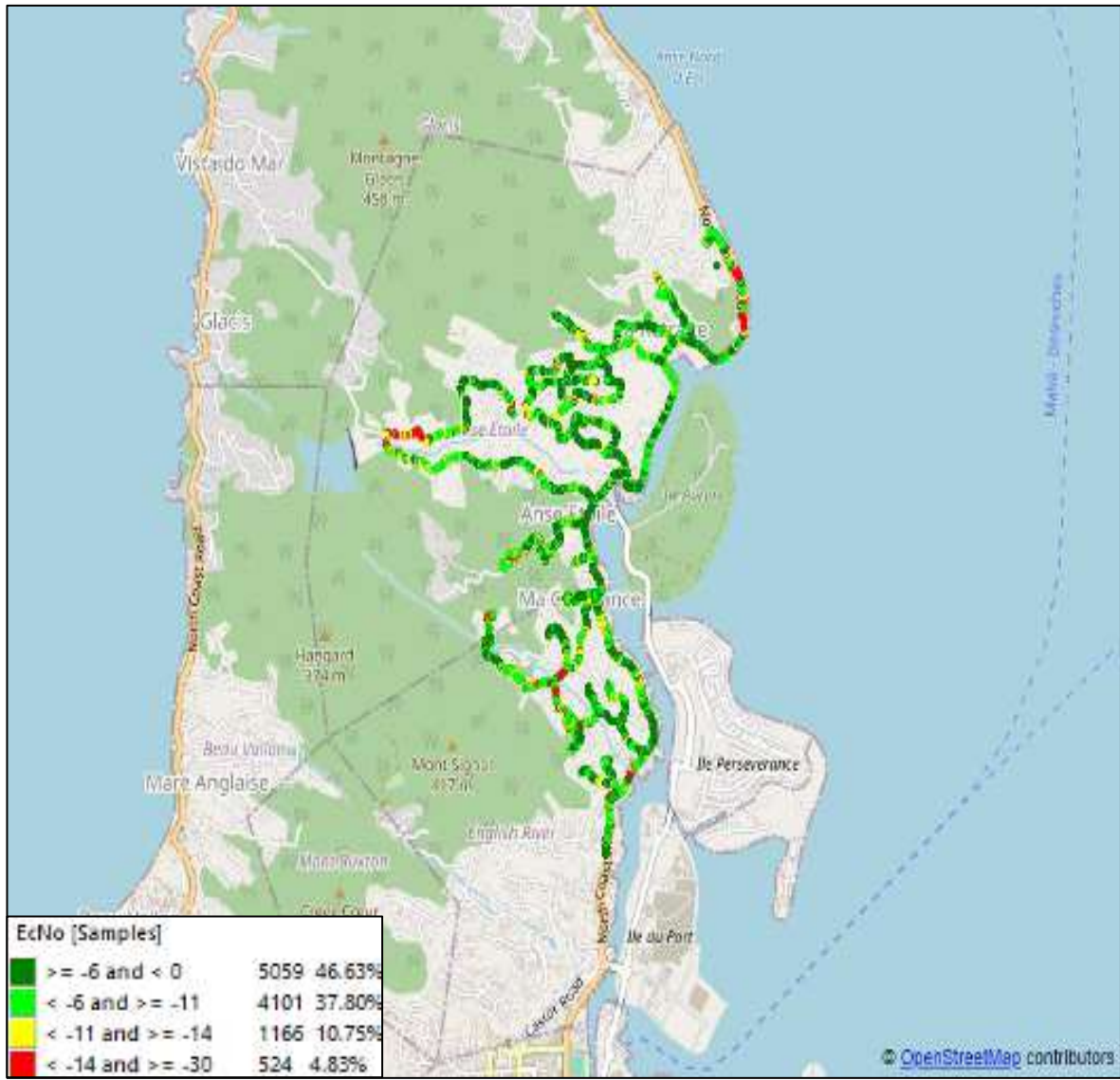
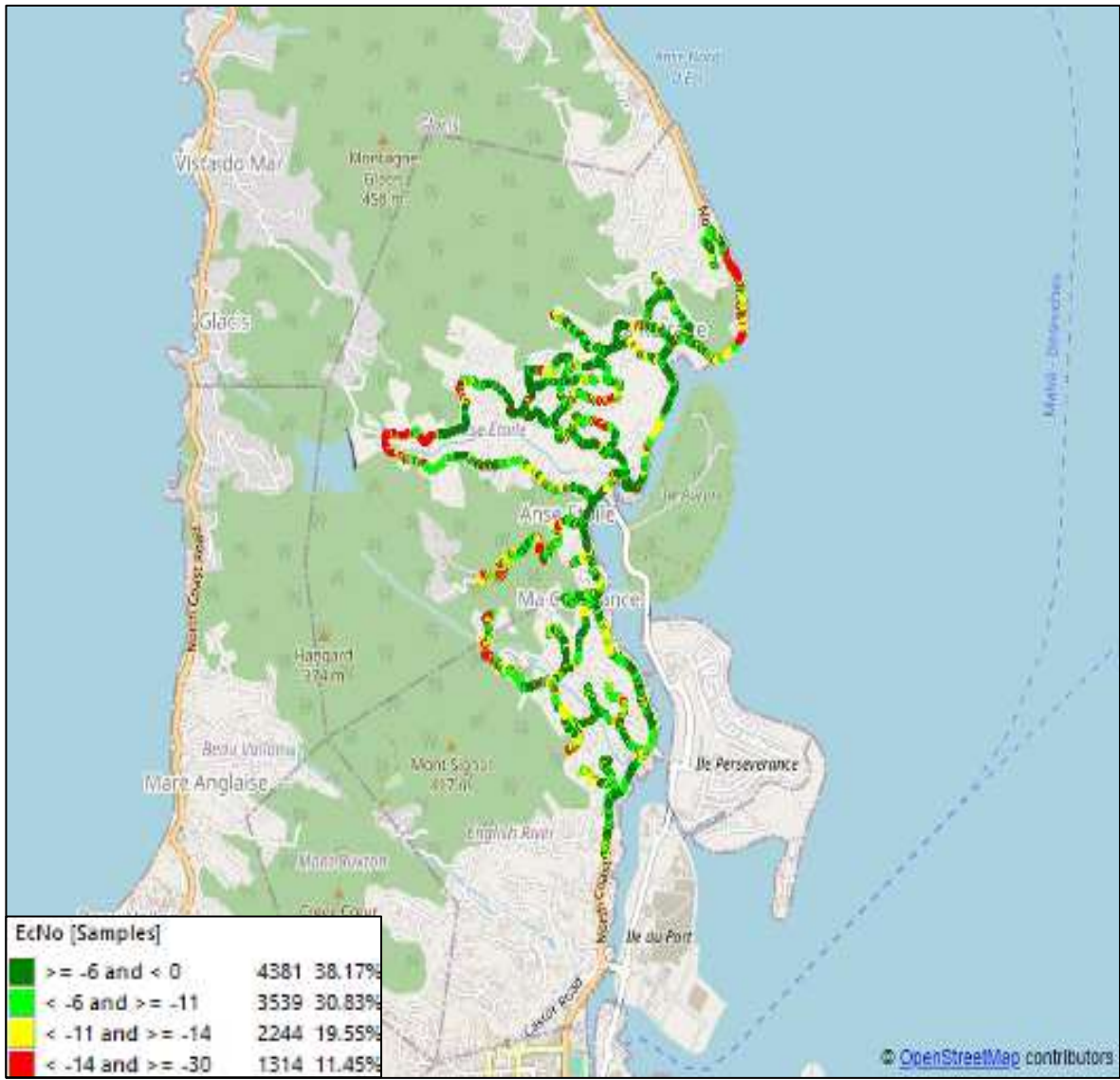


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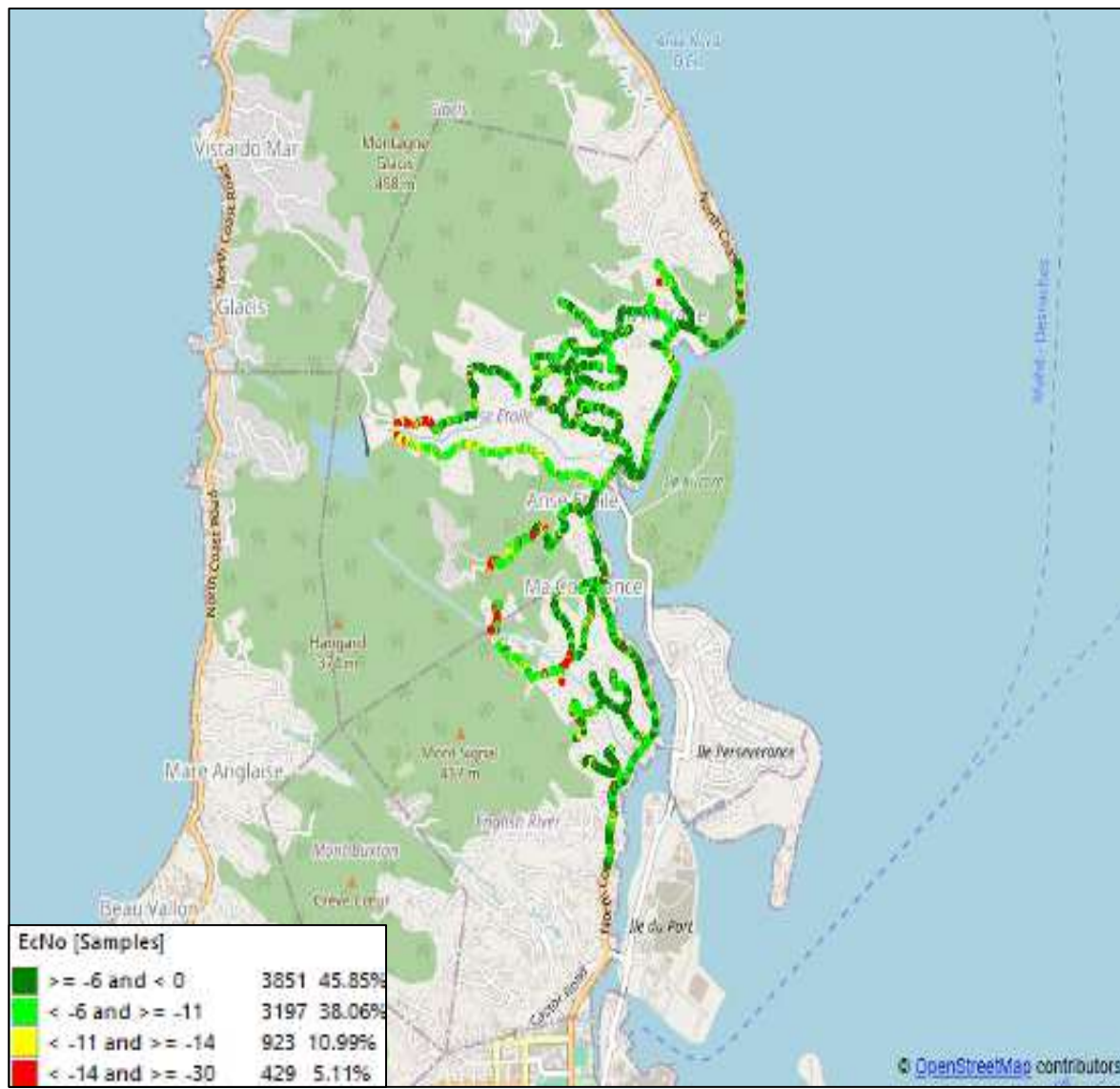
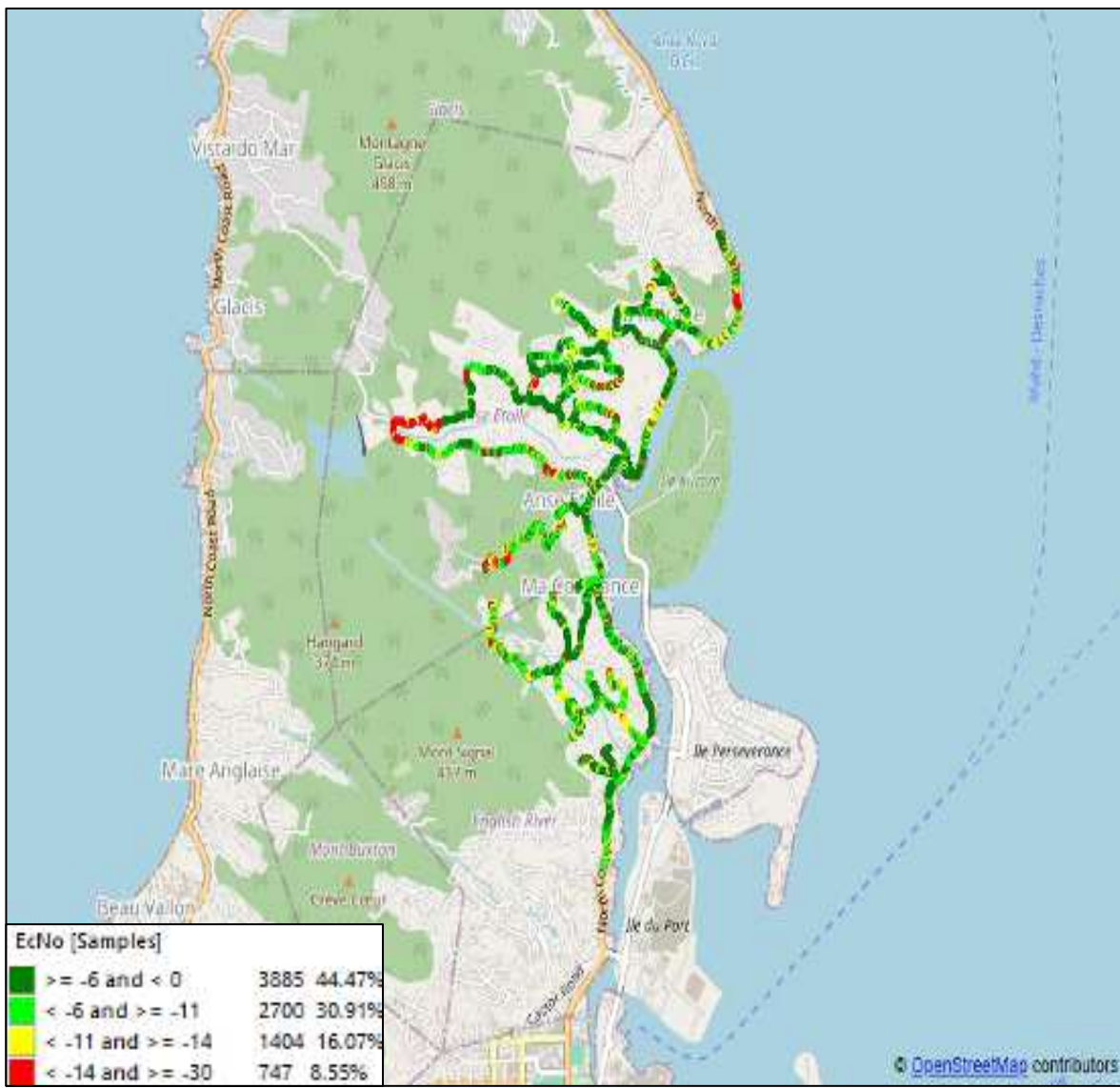
Airtel Data 3G

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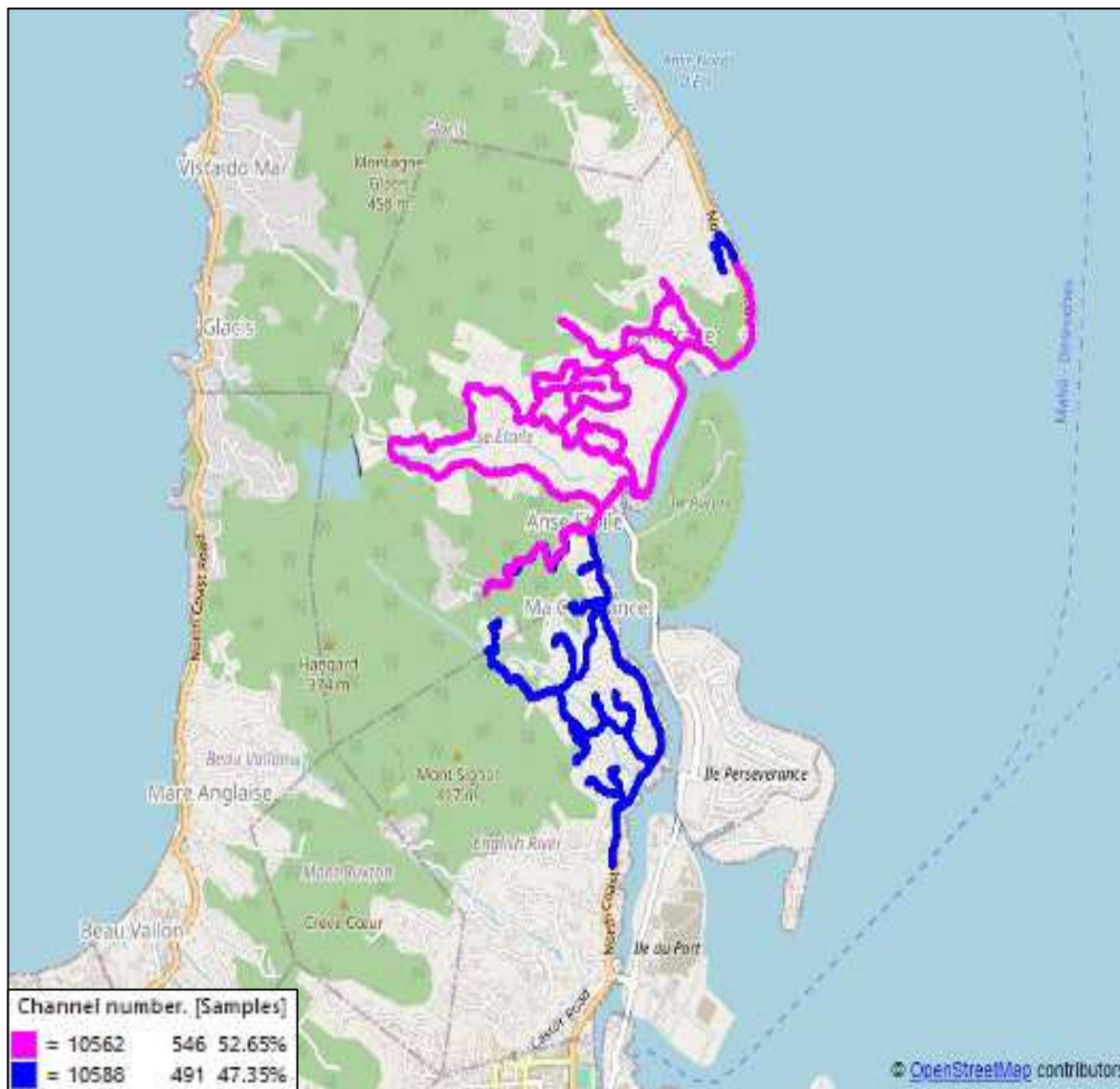


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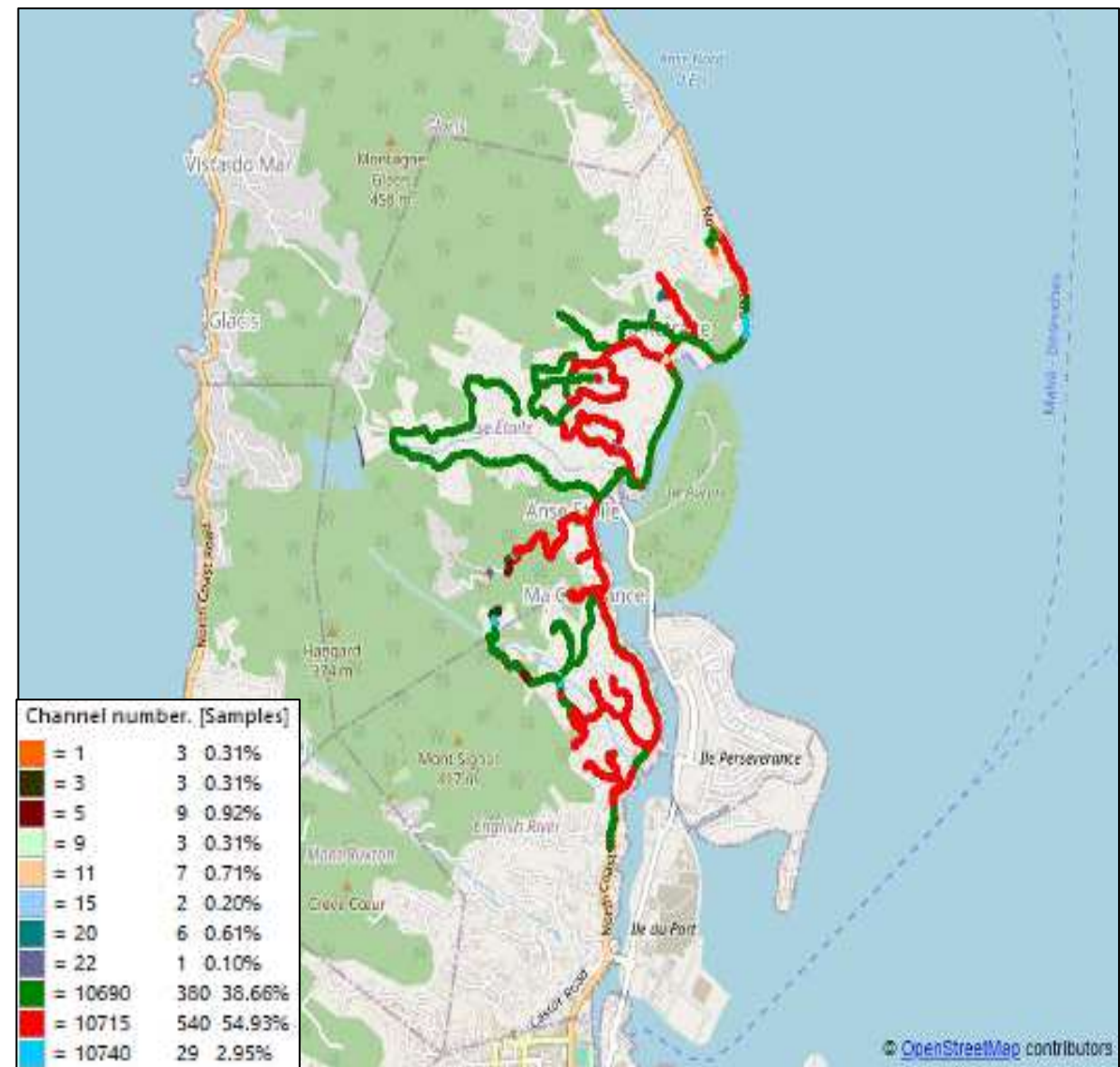
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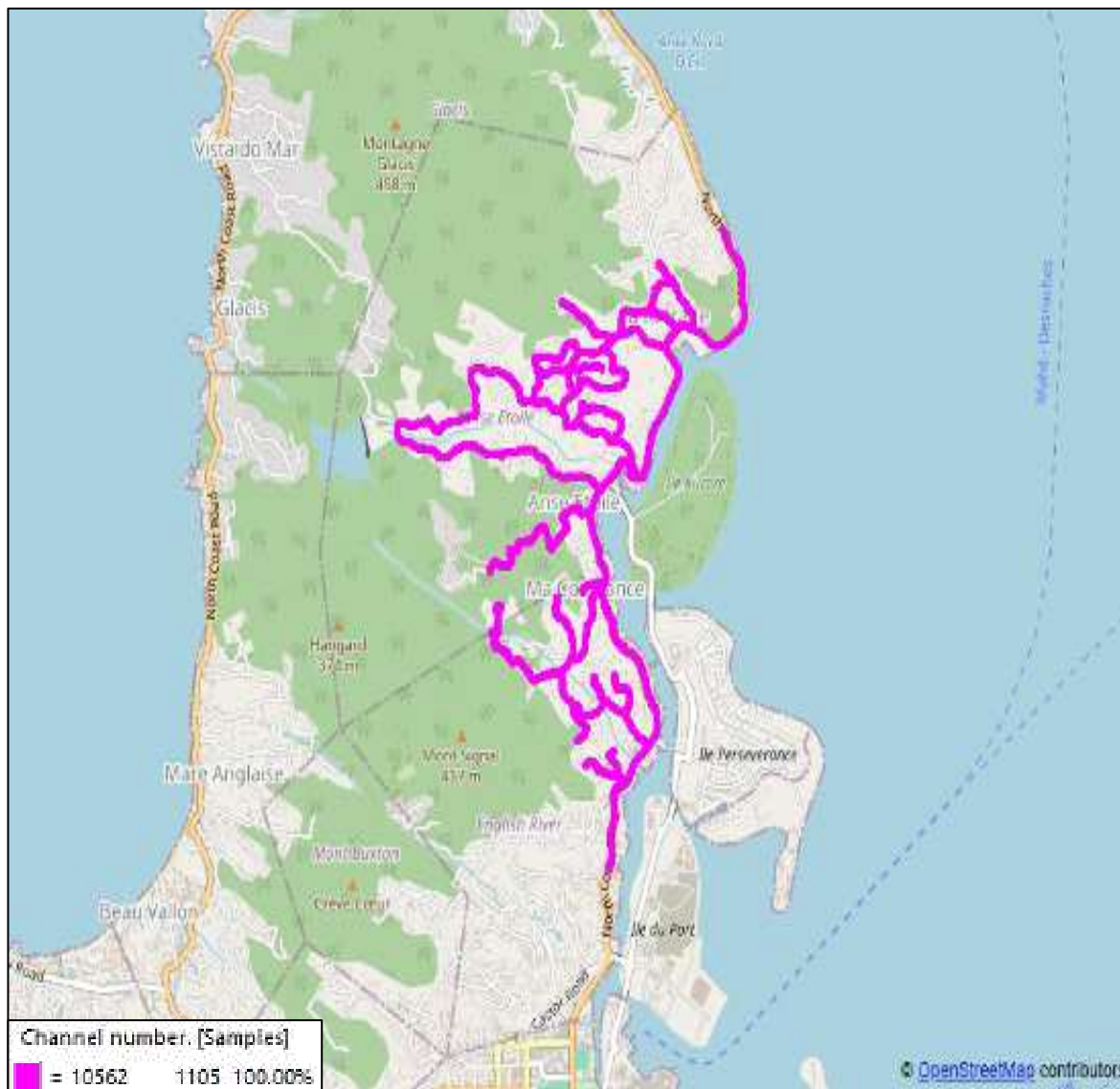
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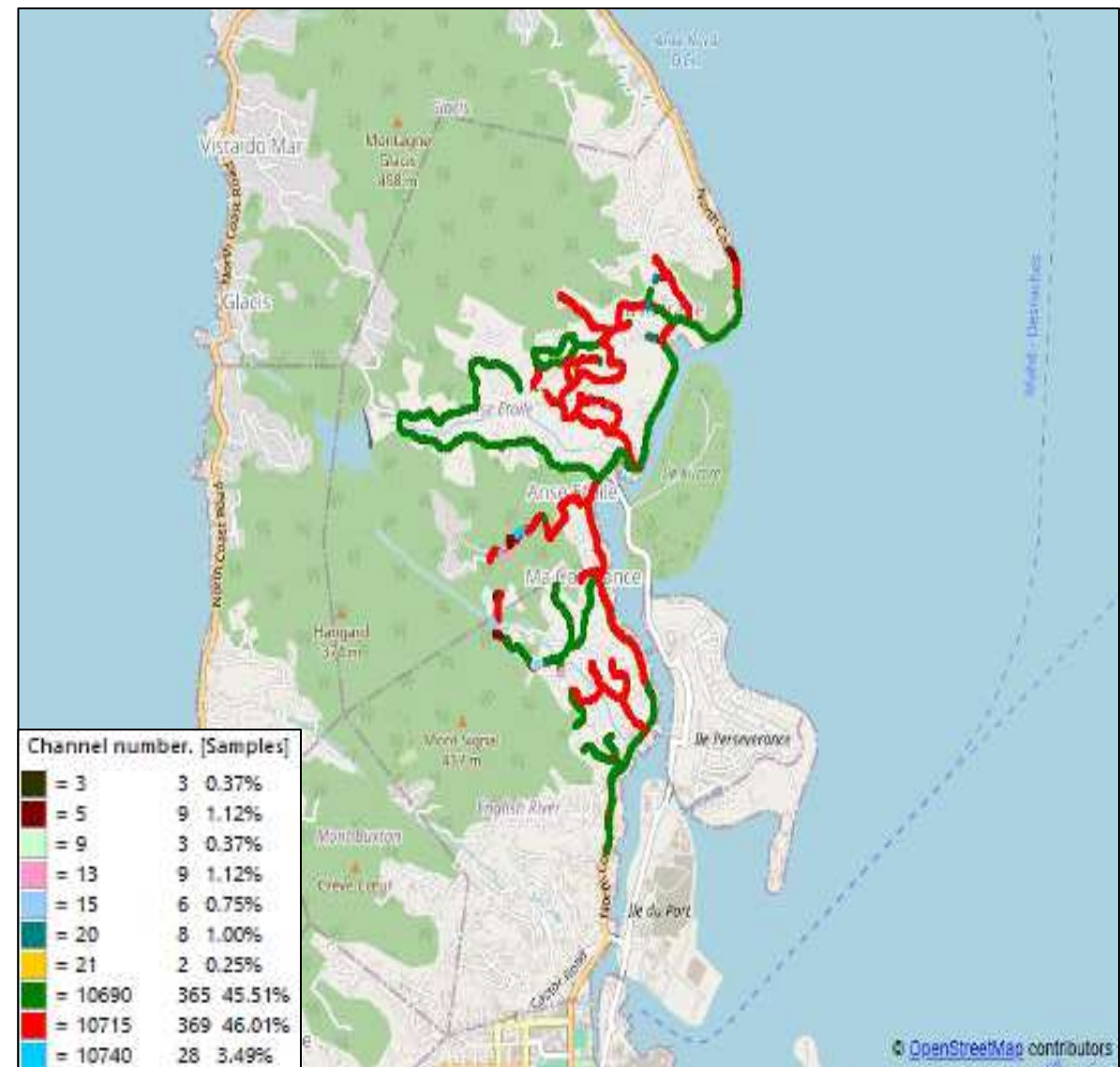
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Airtel Data 3G

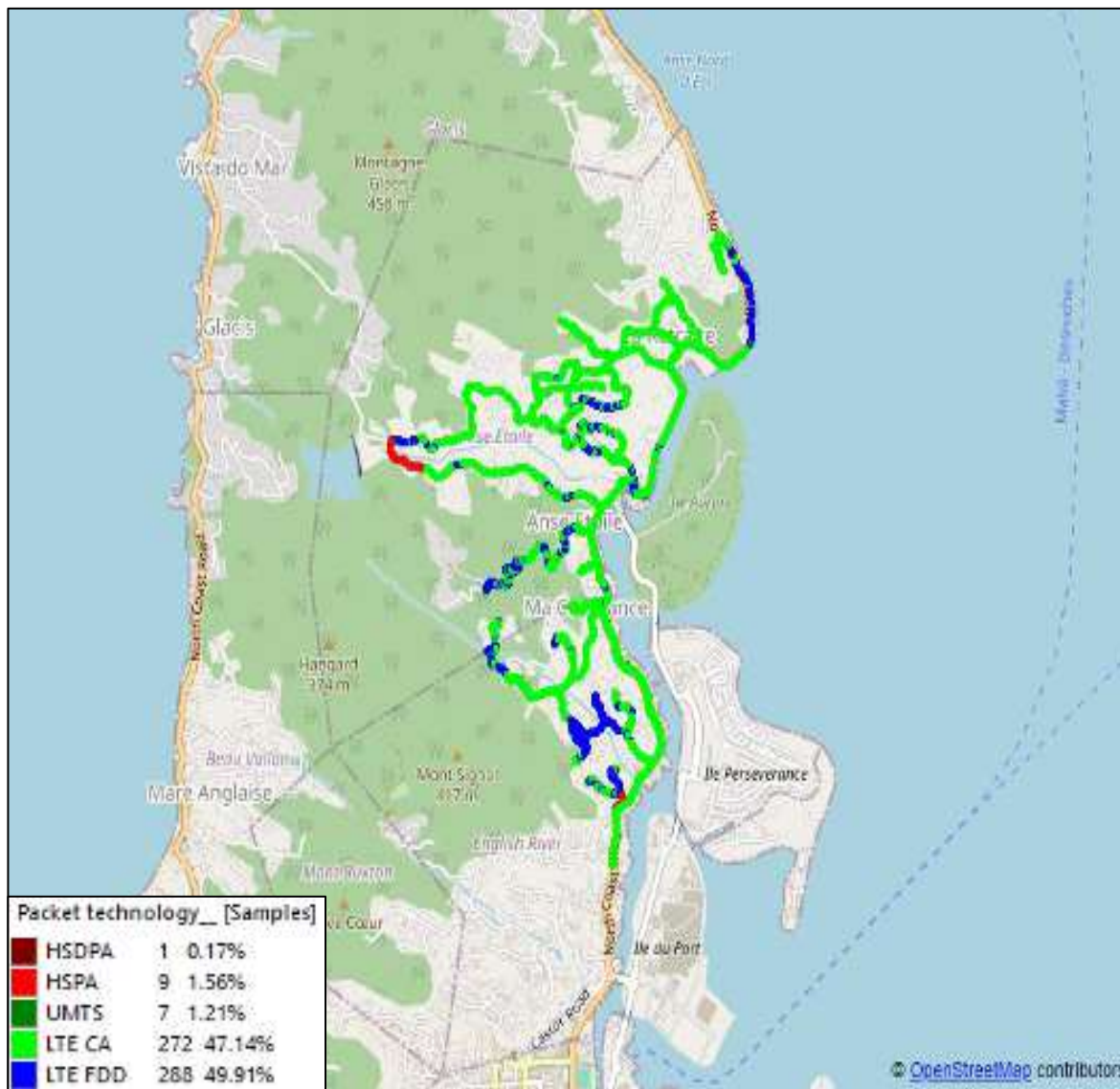


CWS Data 3G

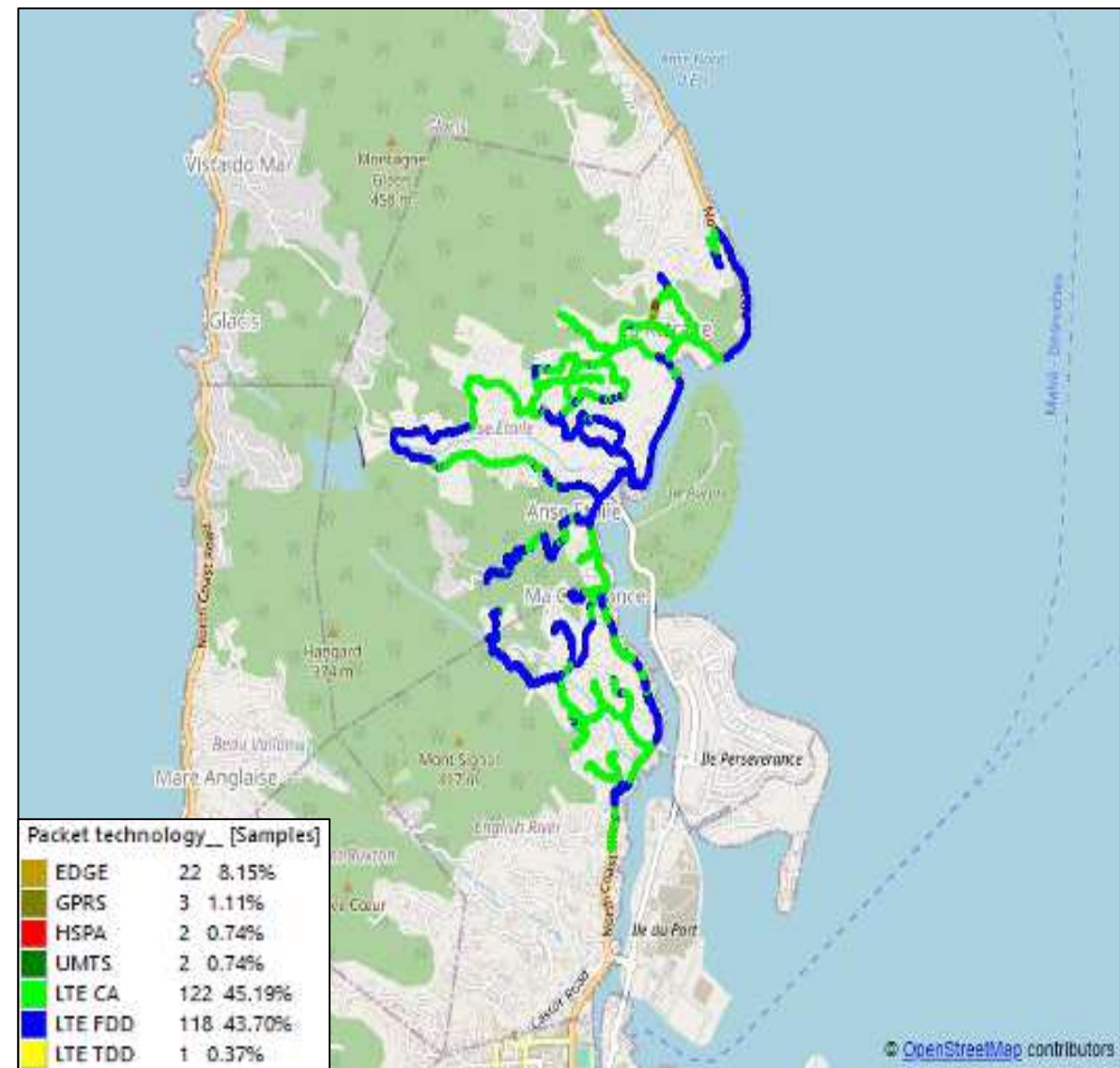


4G PREFERRED DATA DRIVE PLOTS

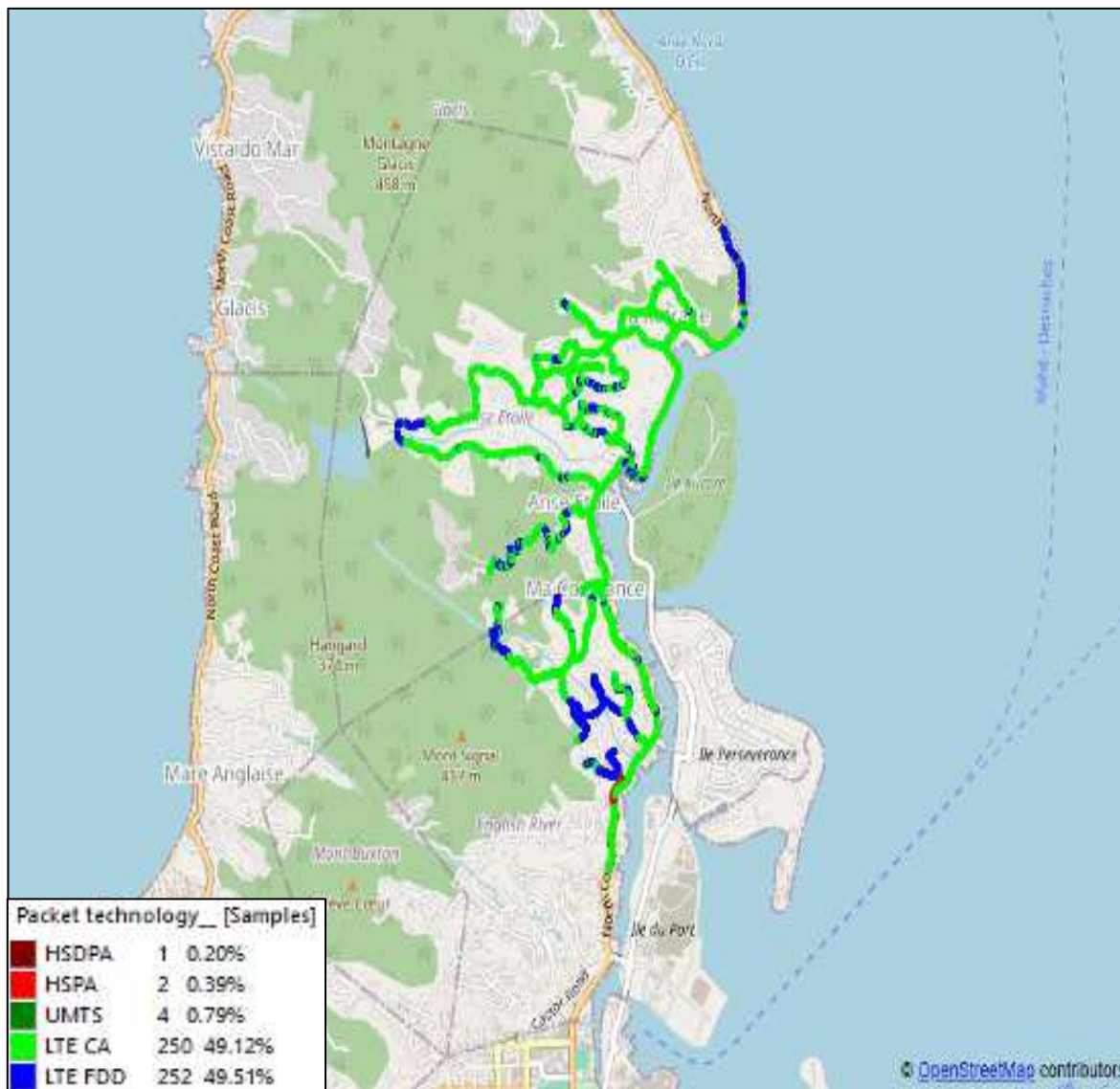
Airtel Data 4G



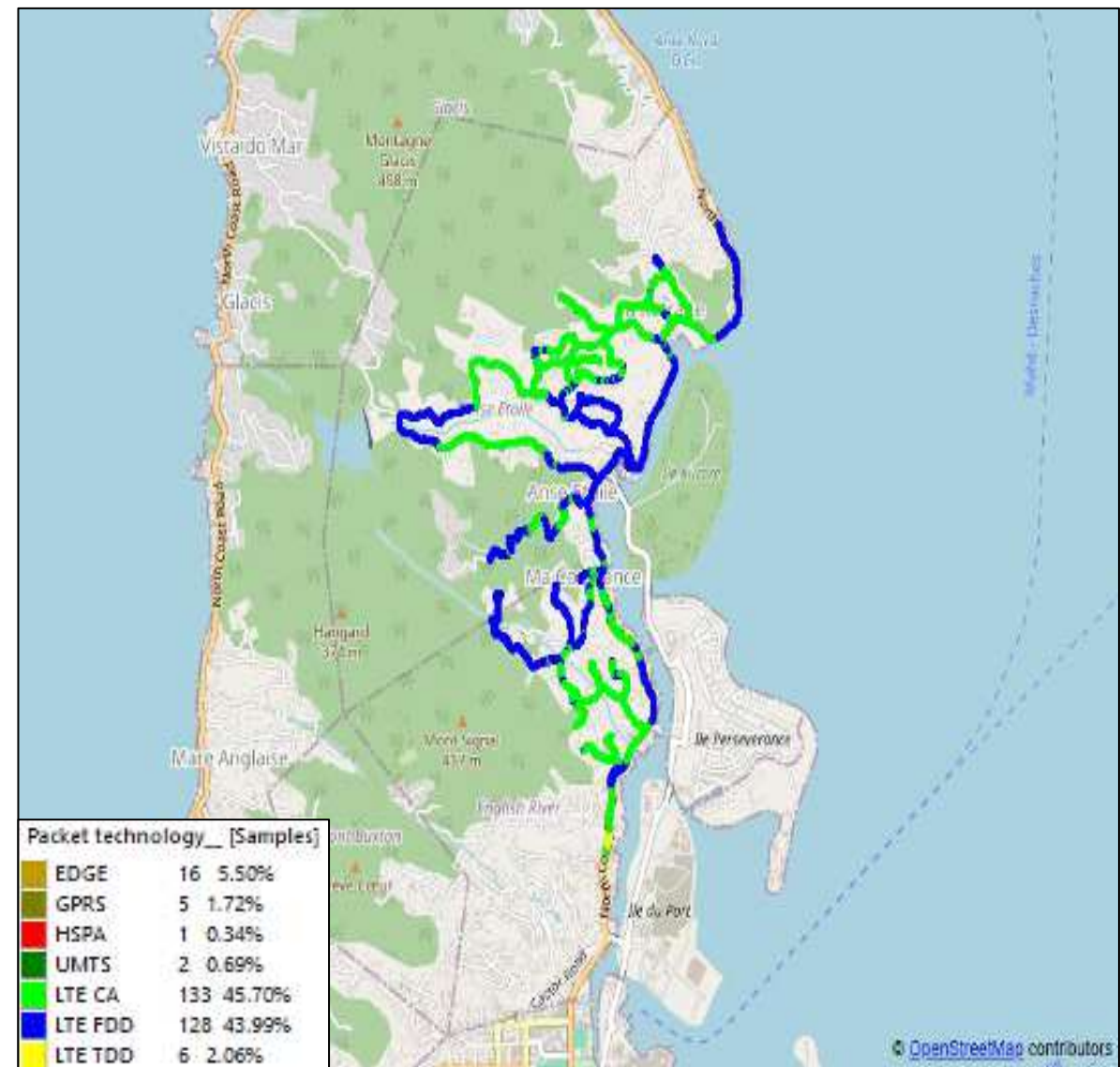
CWS Data 4G



Airtel Data 4G

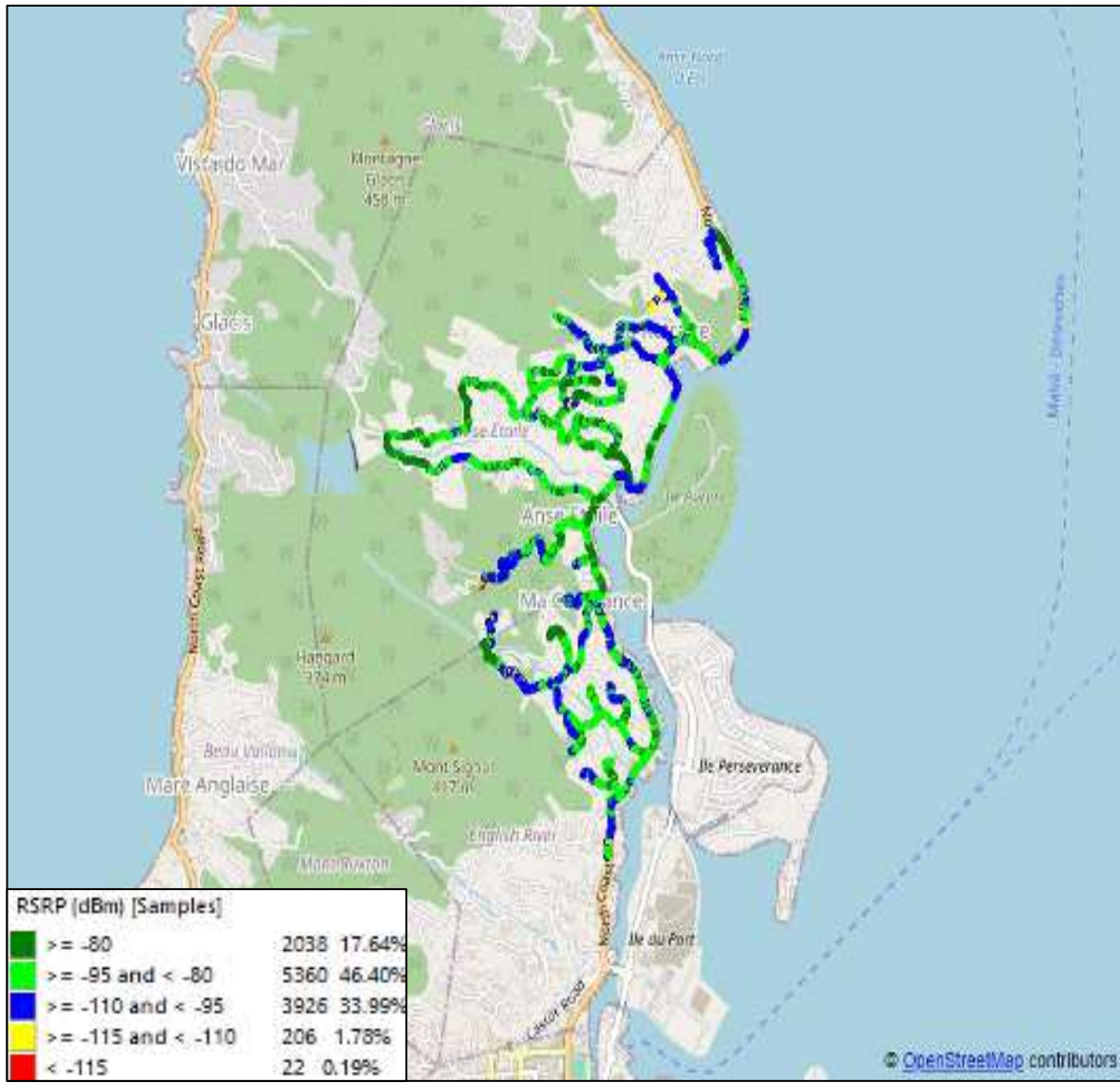
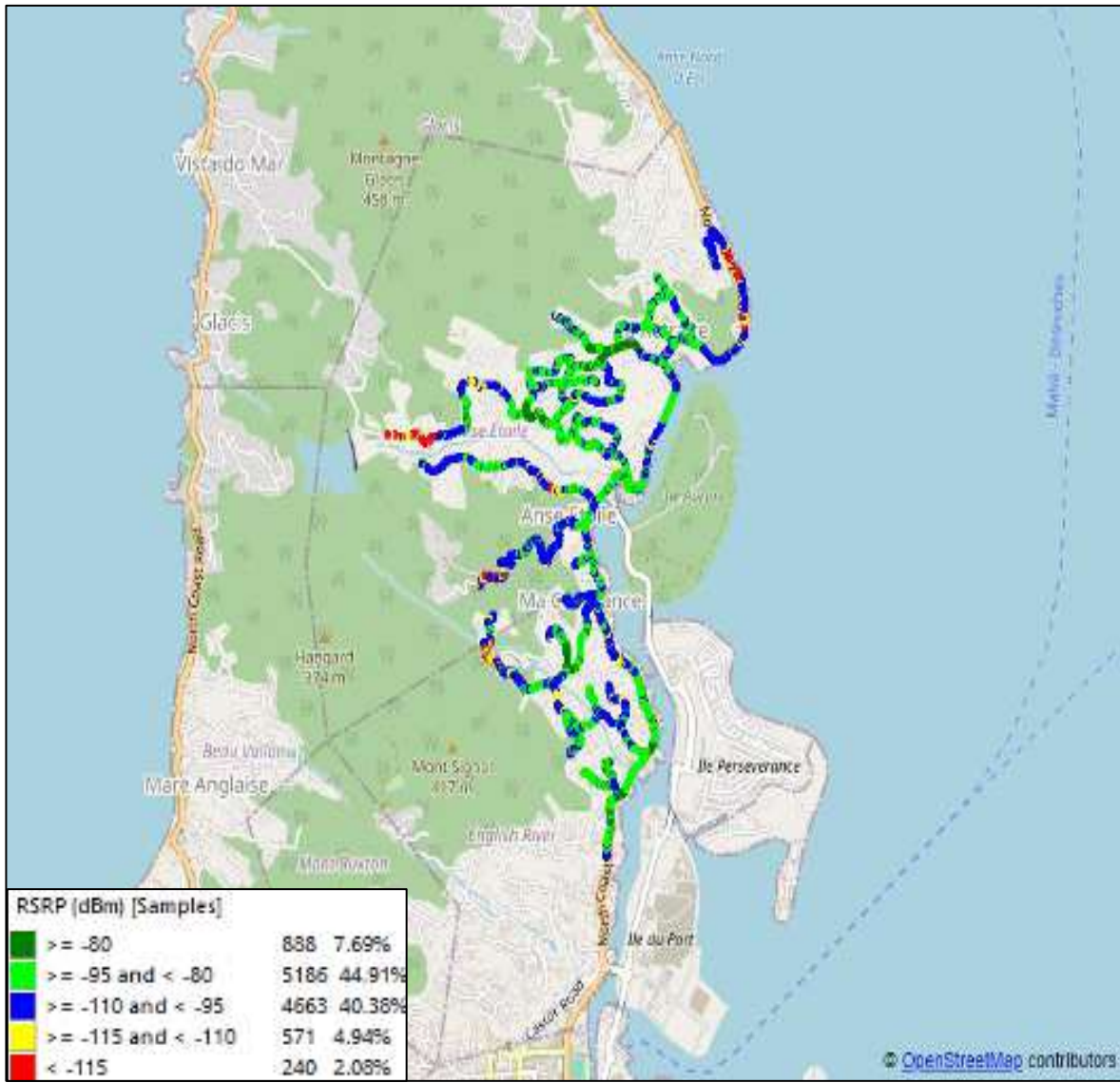


CWS Data 4G



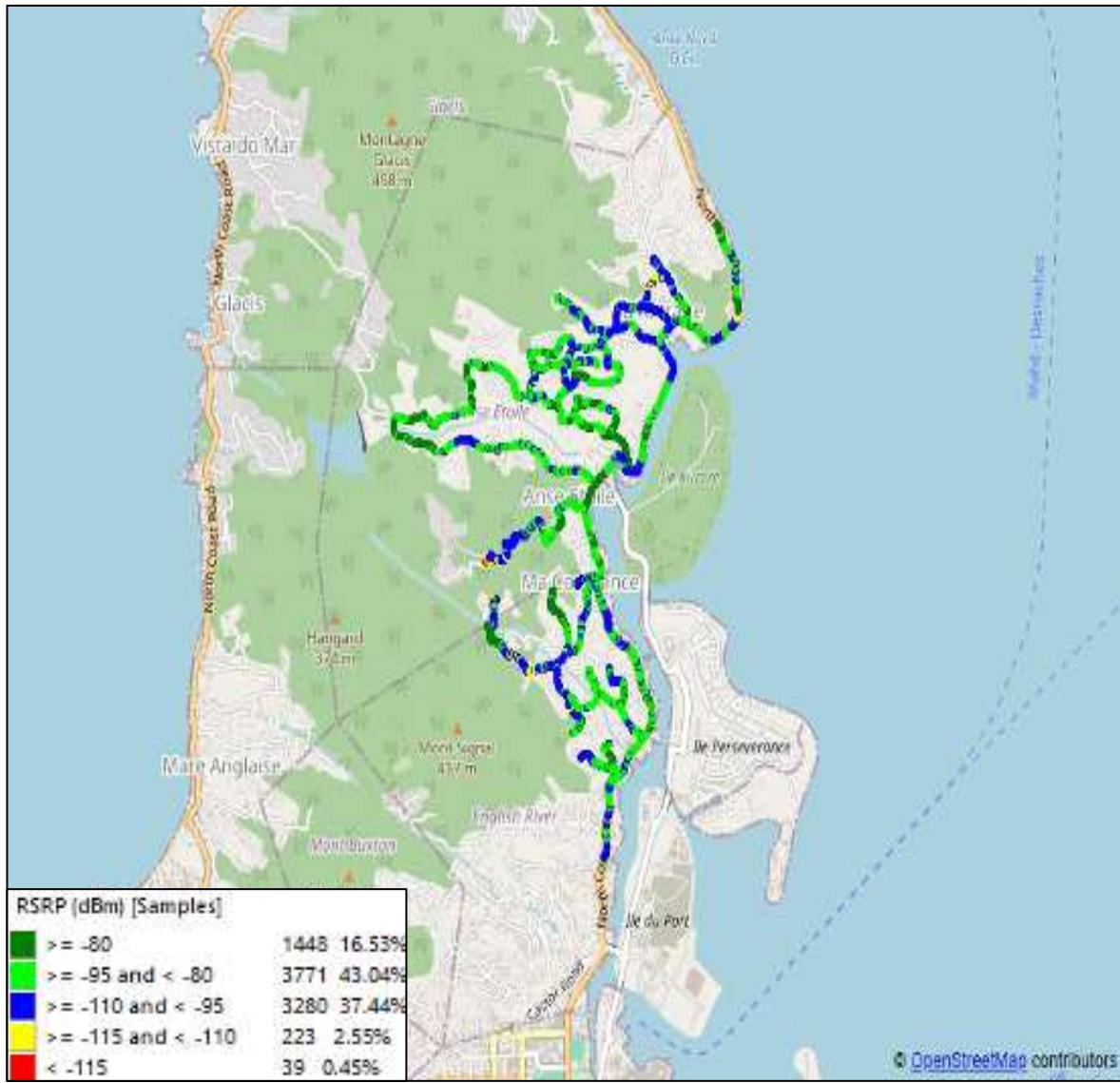
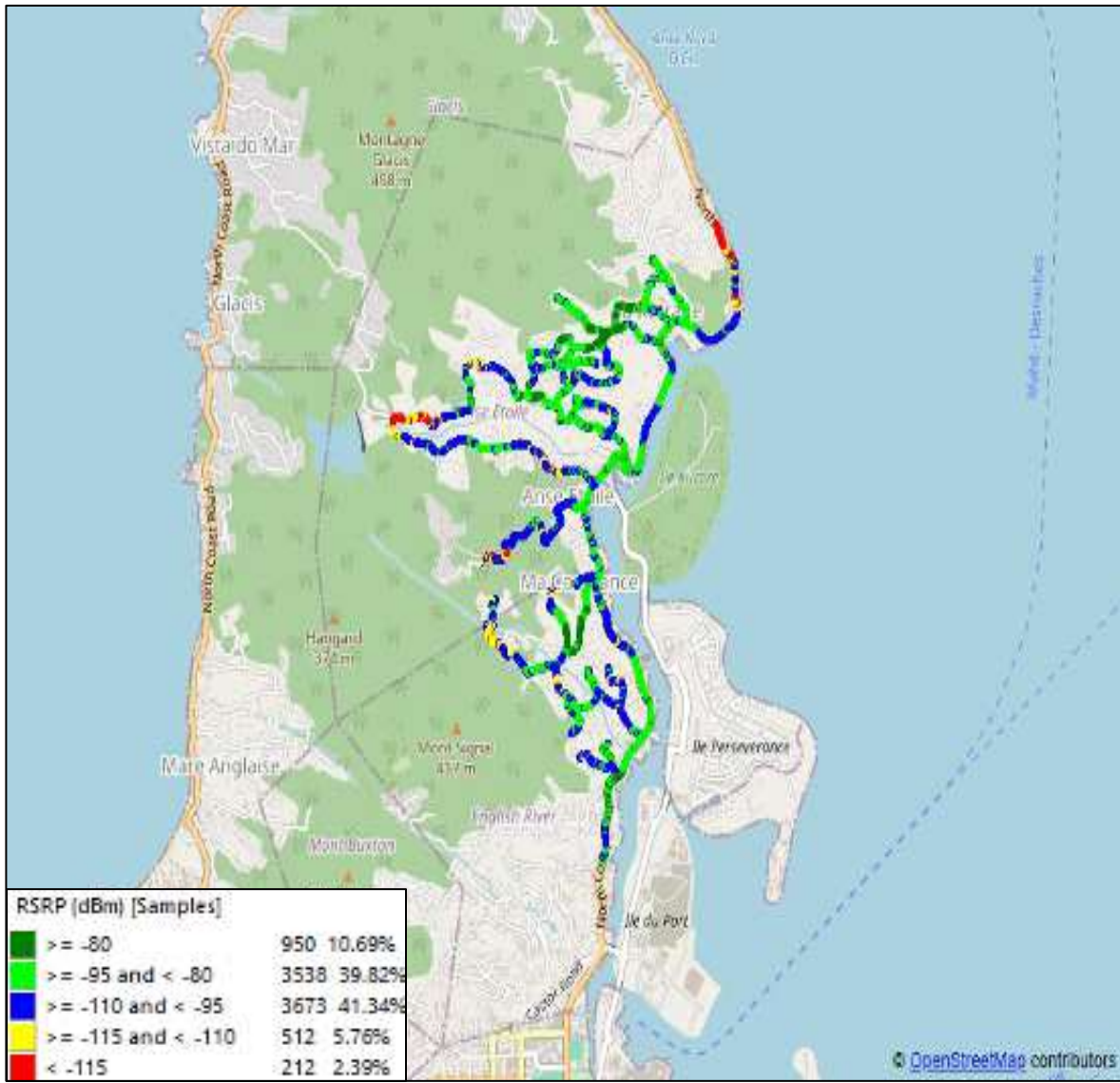
Airtel Data 4G

CWS Data 4G



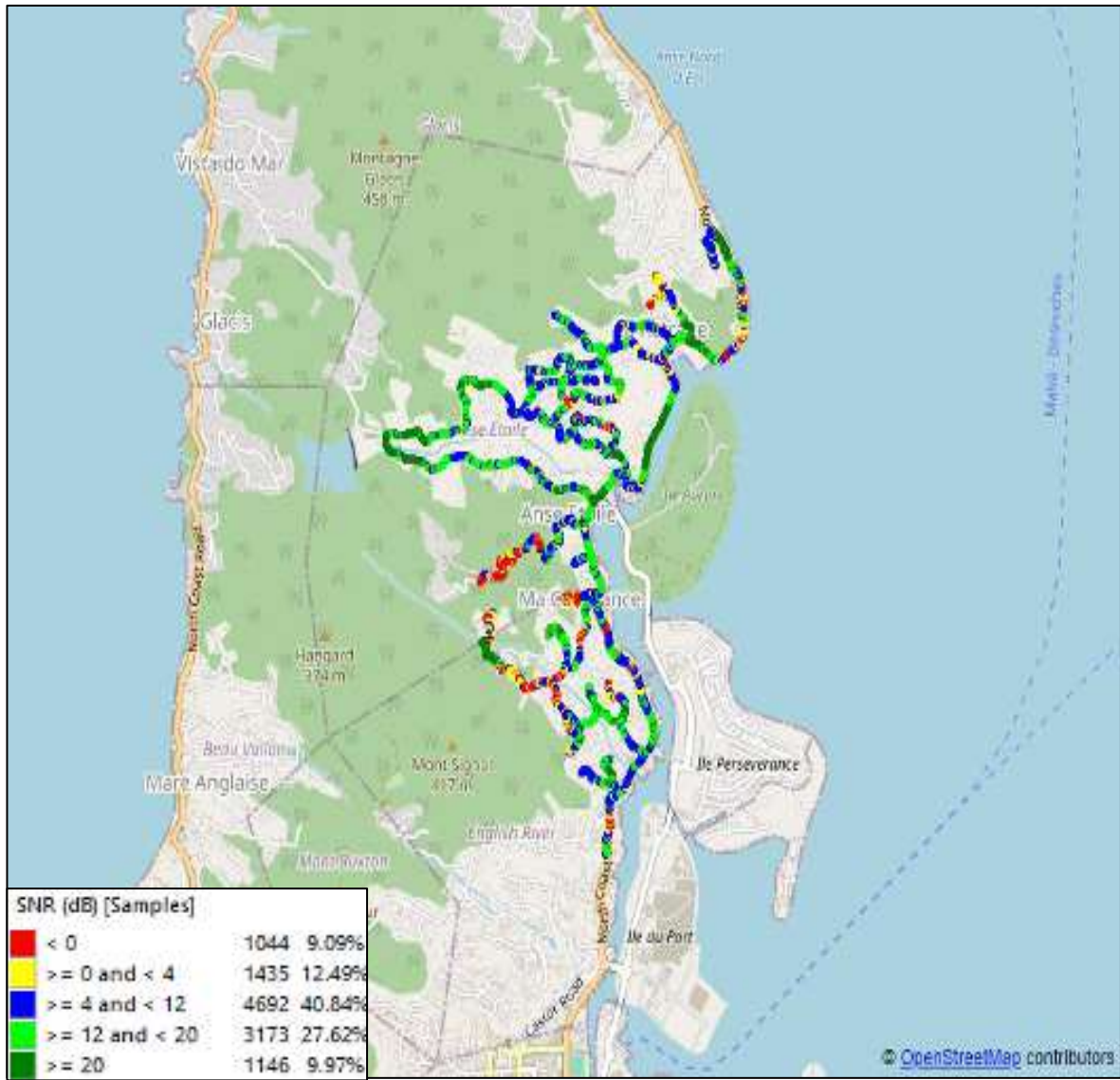
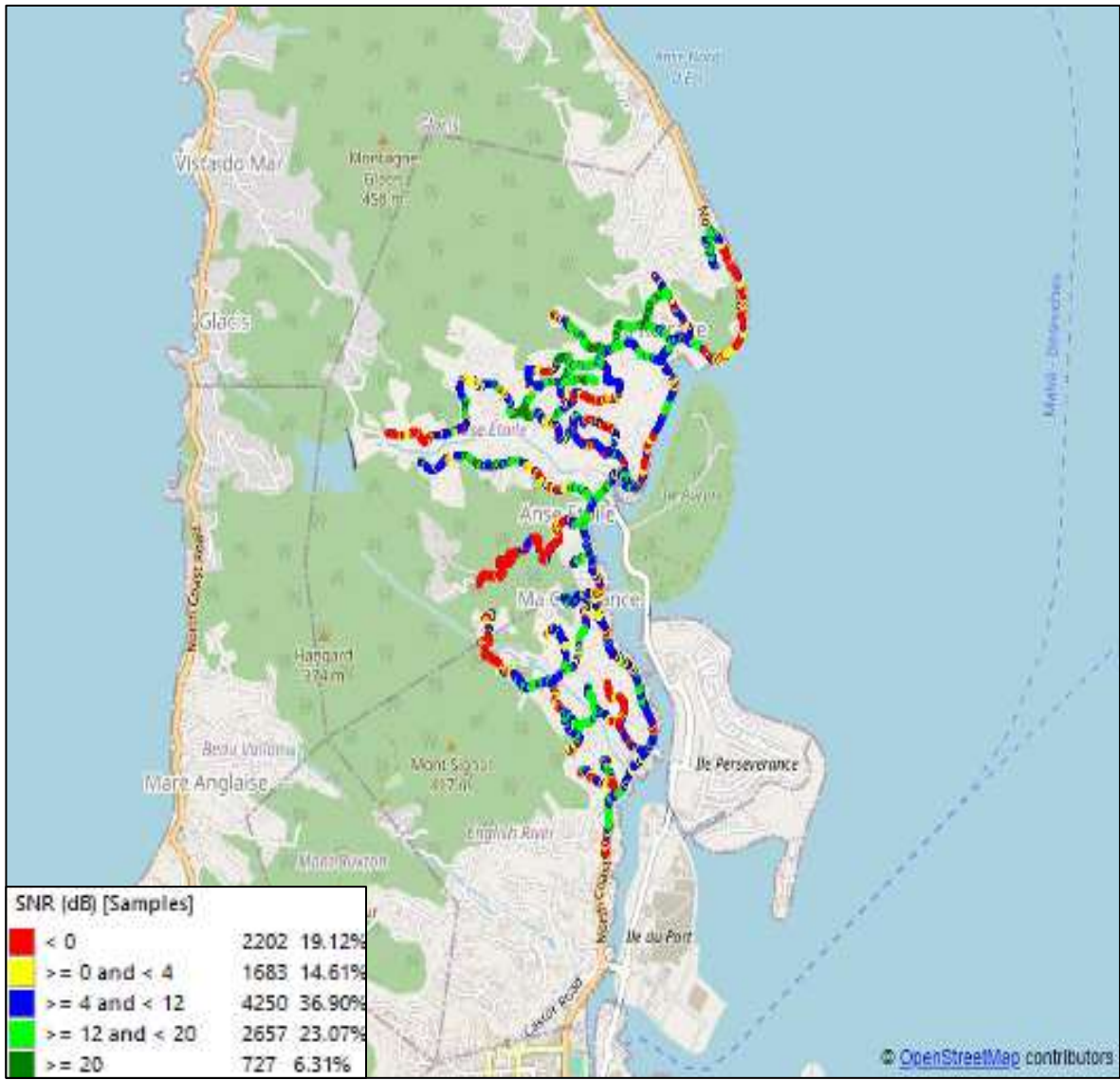
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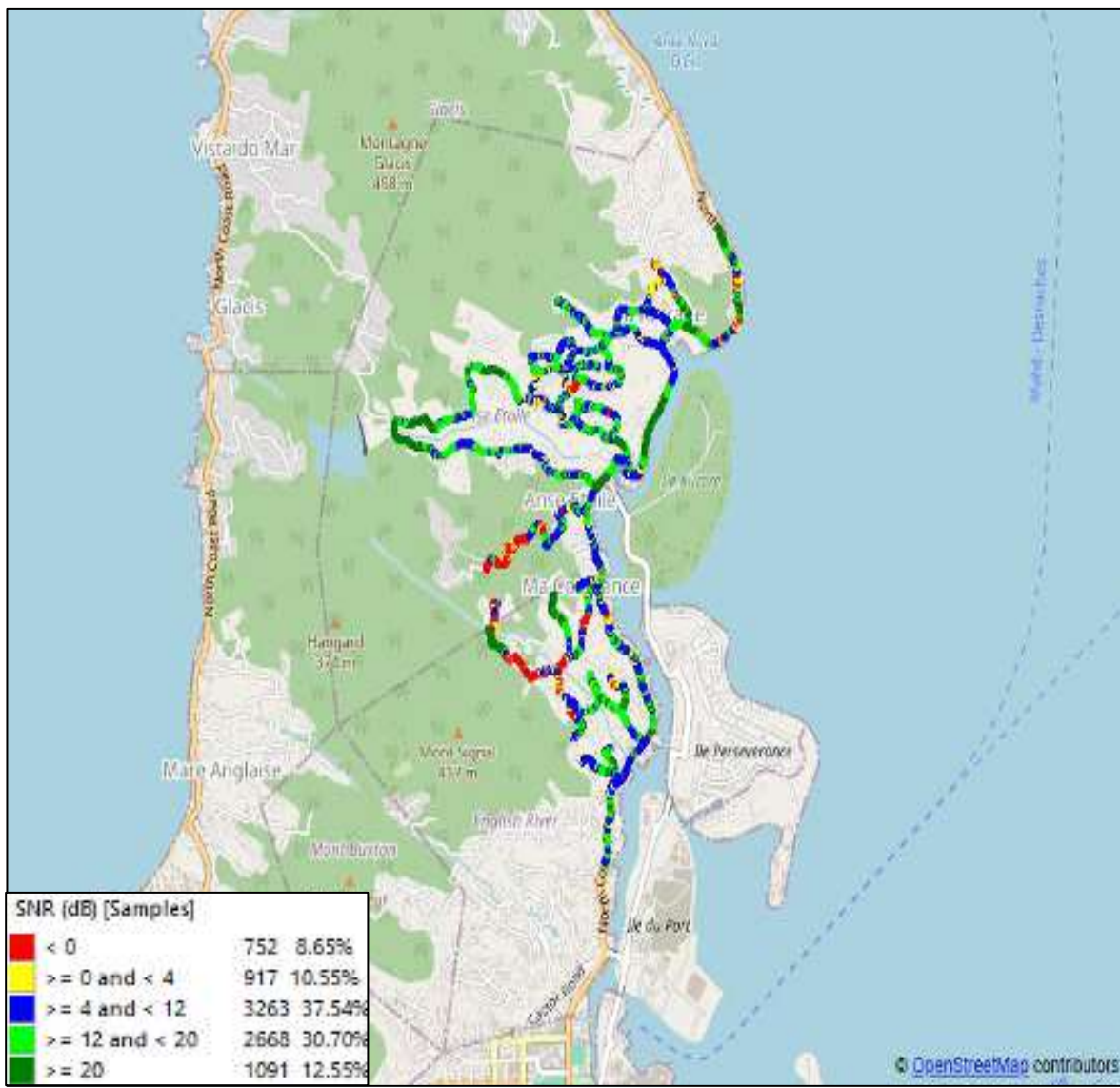
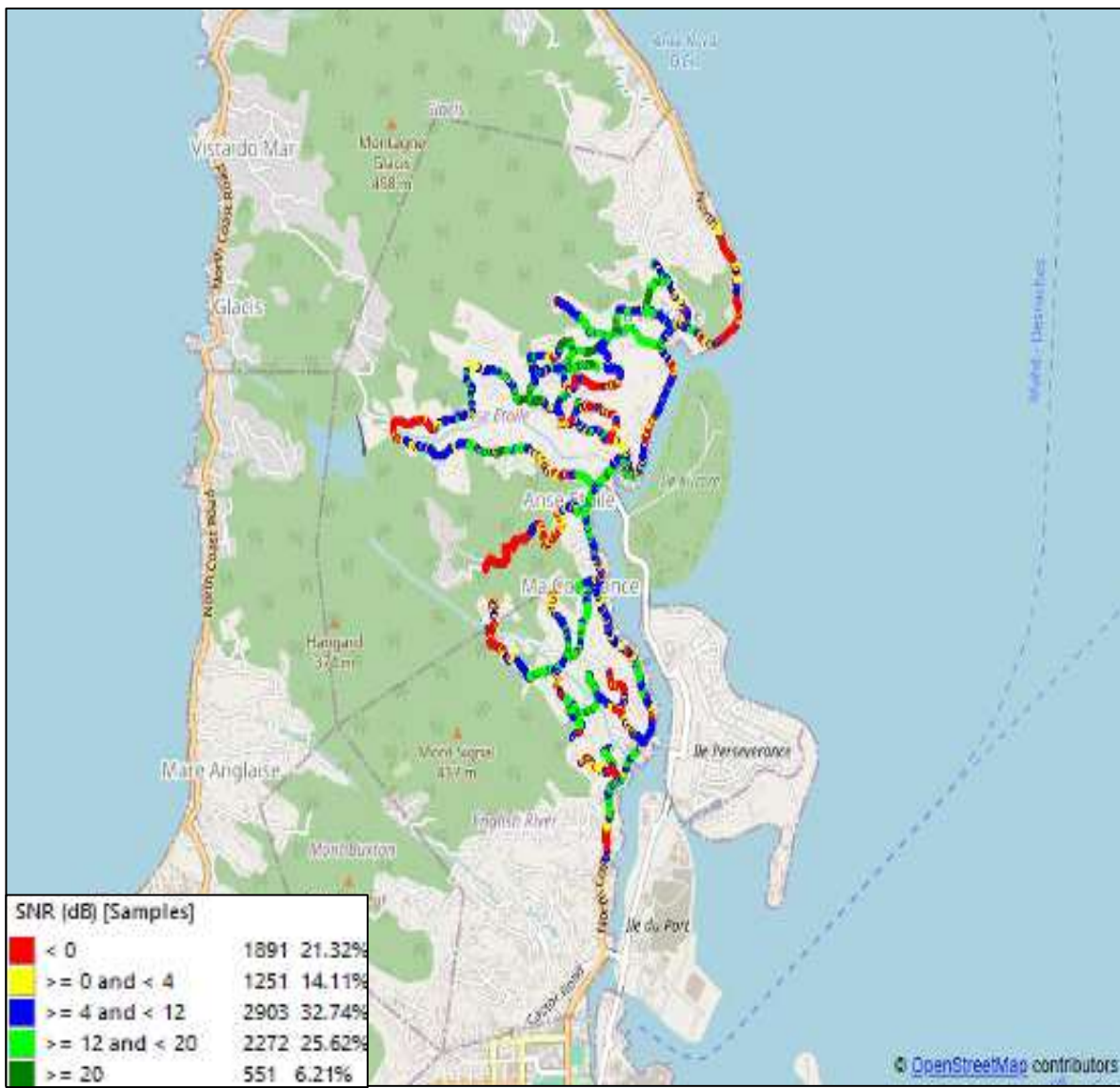
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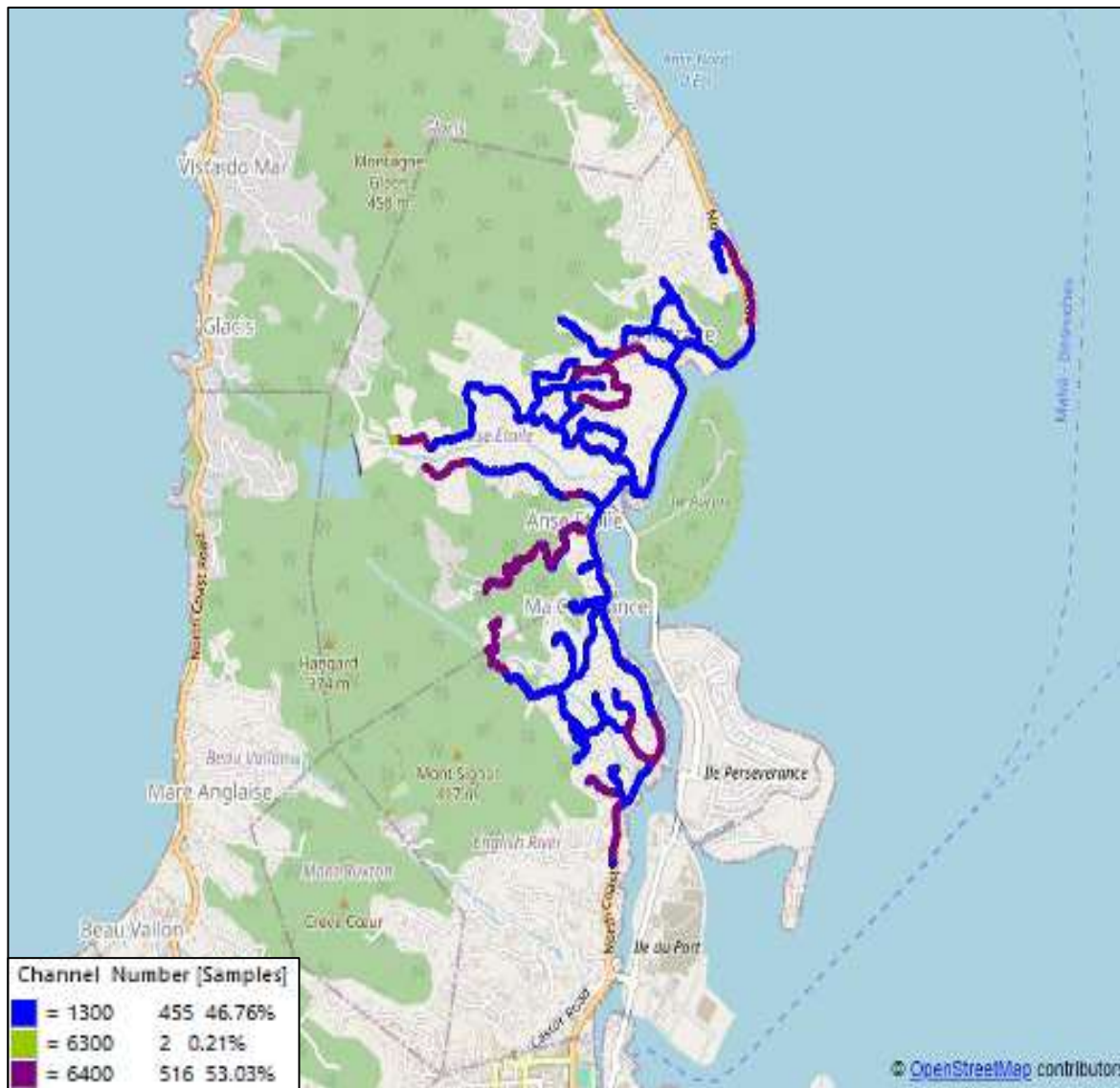


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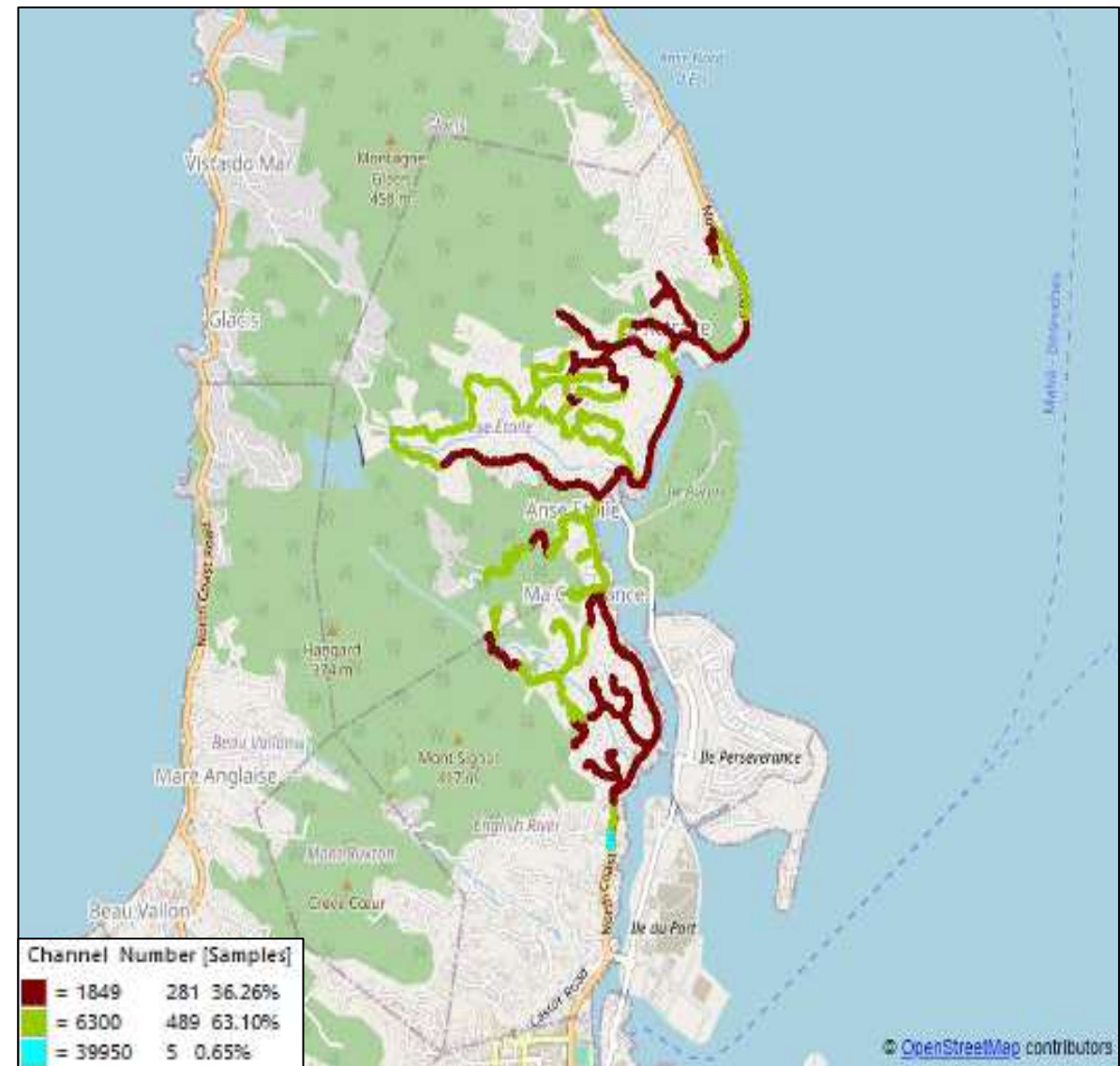
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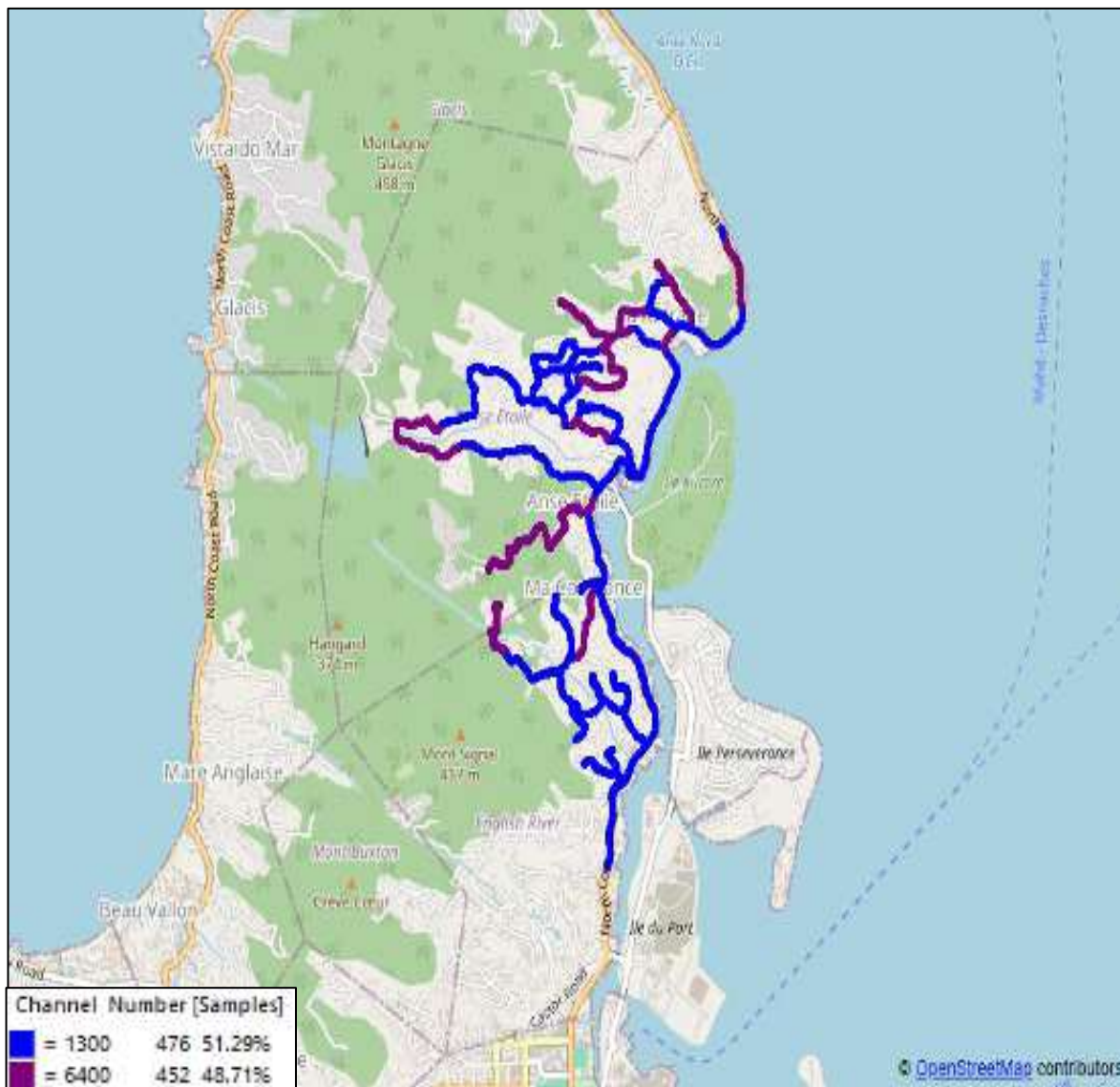
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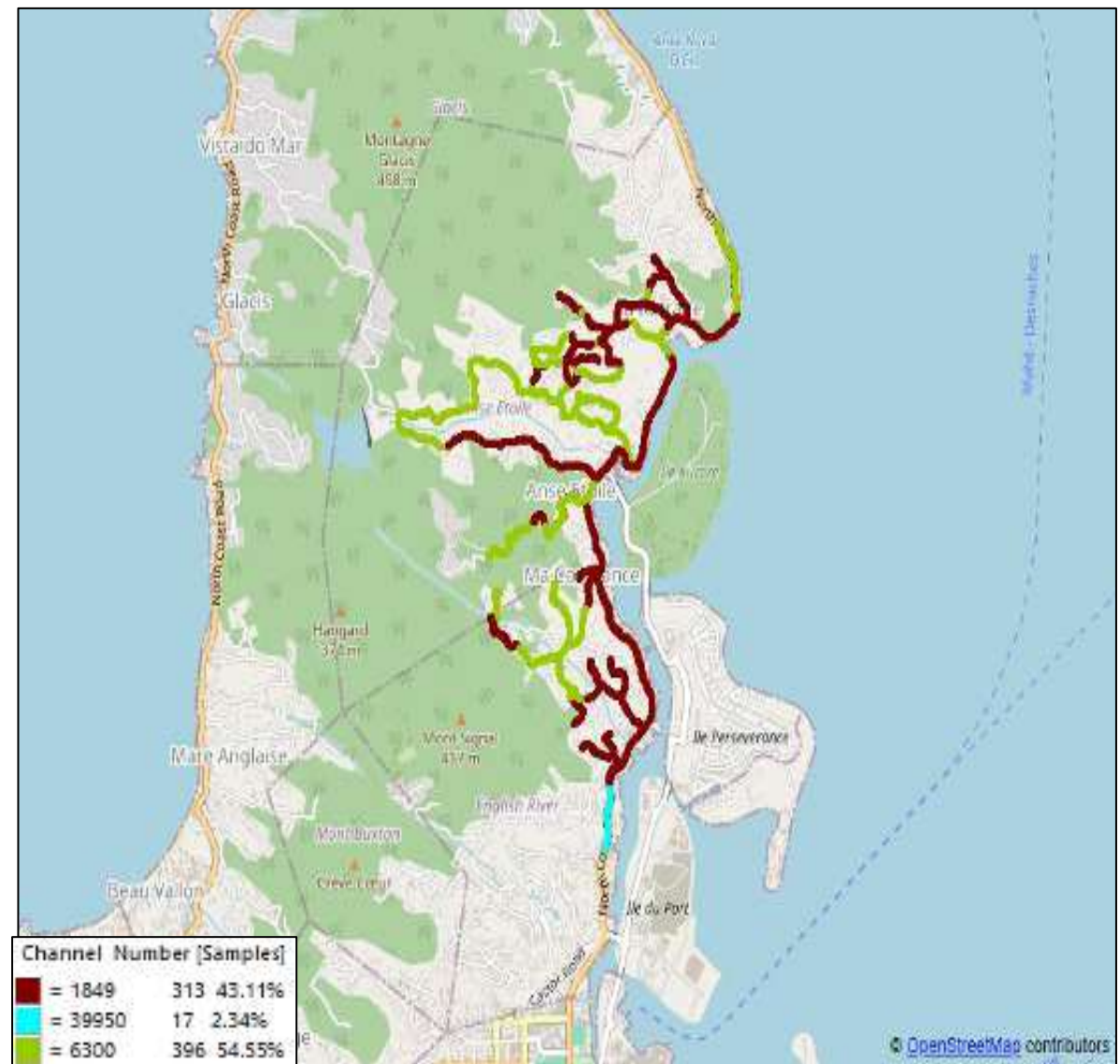
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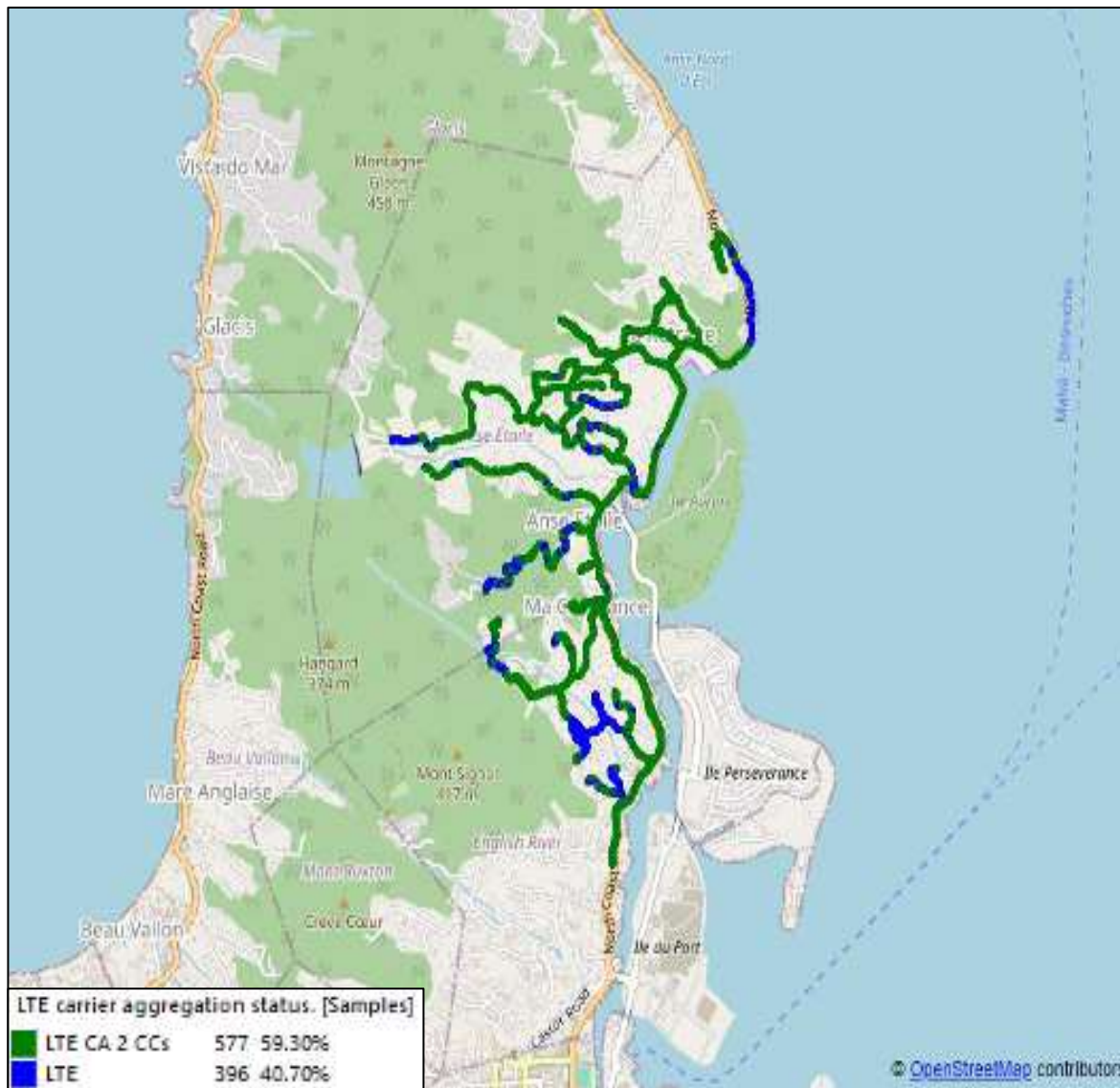
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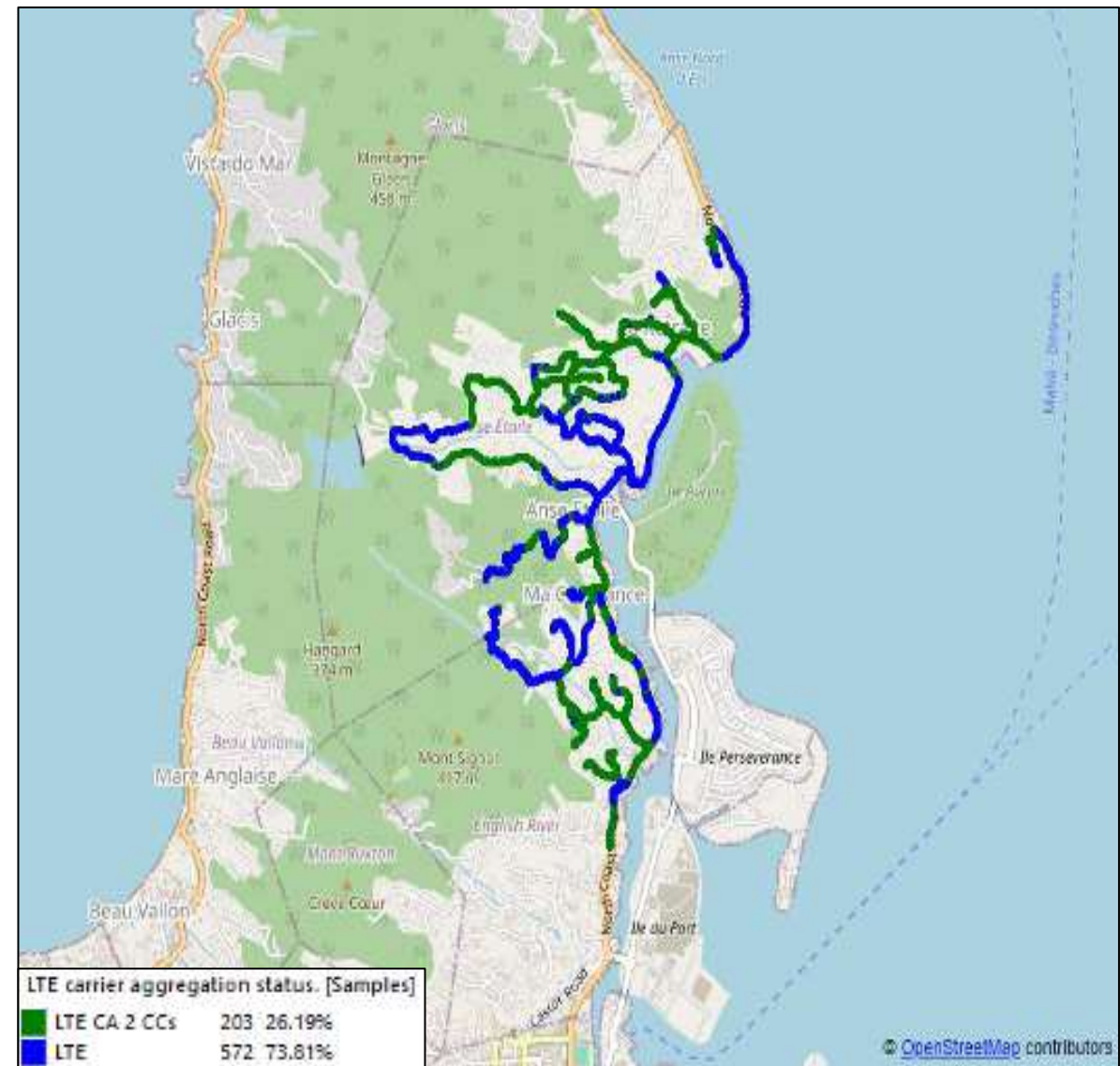
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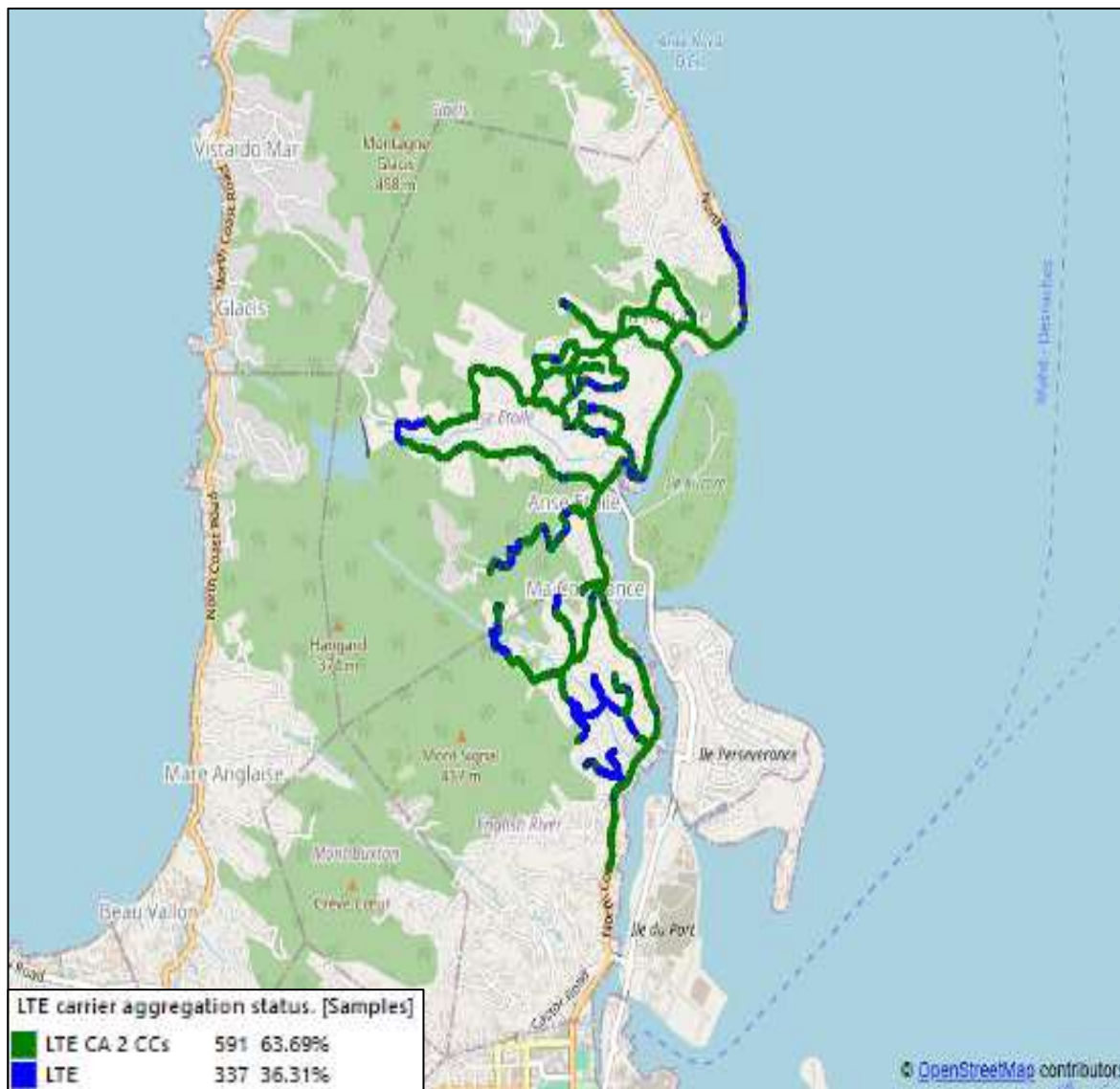
Airtel Data 4G



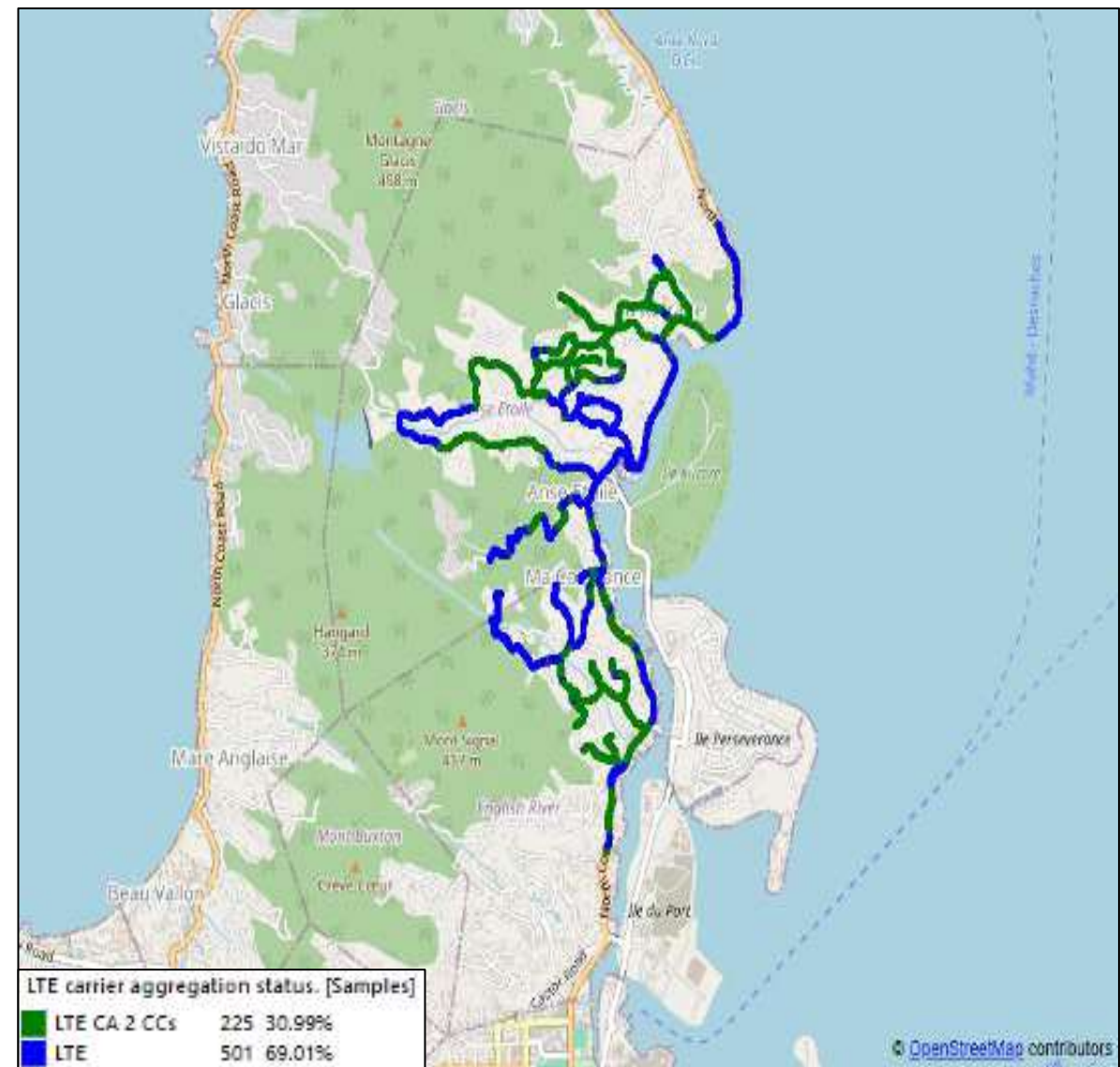
CWS Data 4G



Airtel Data 4G

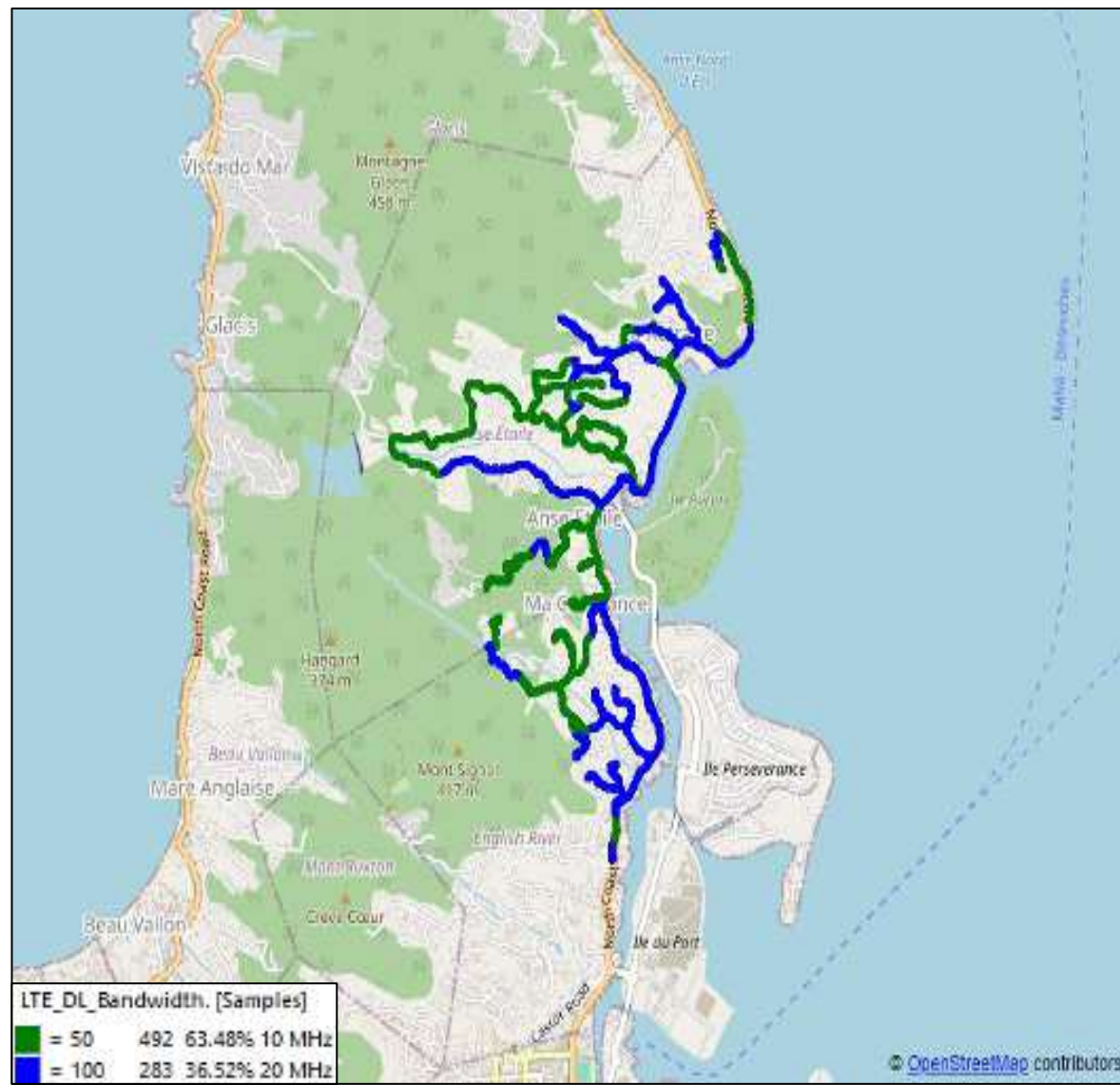
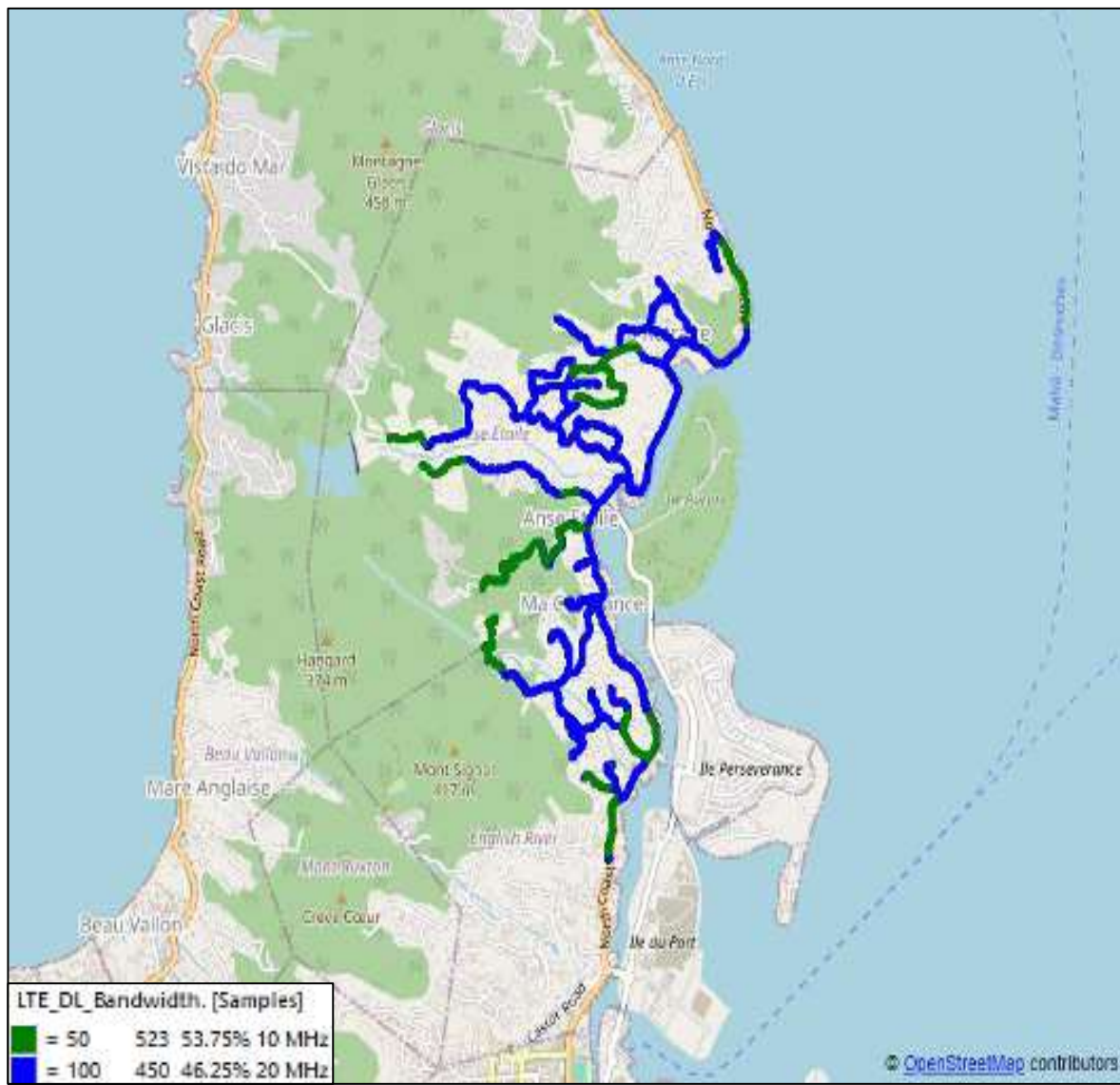


CWS Data 4G



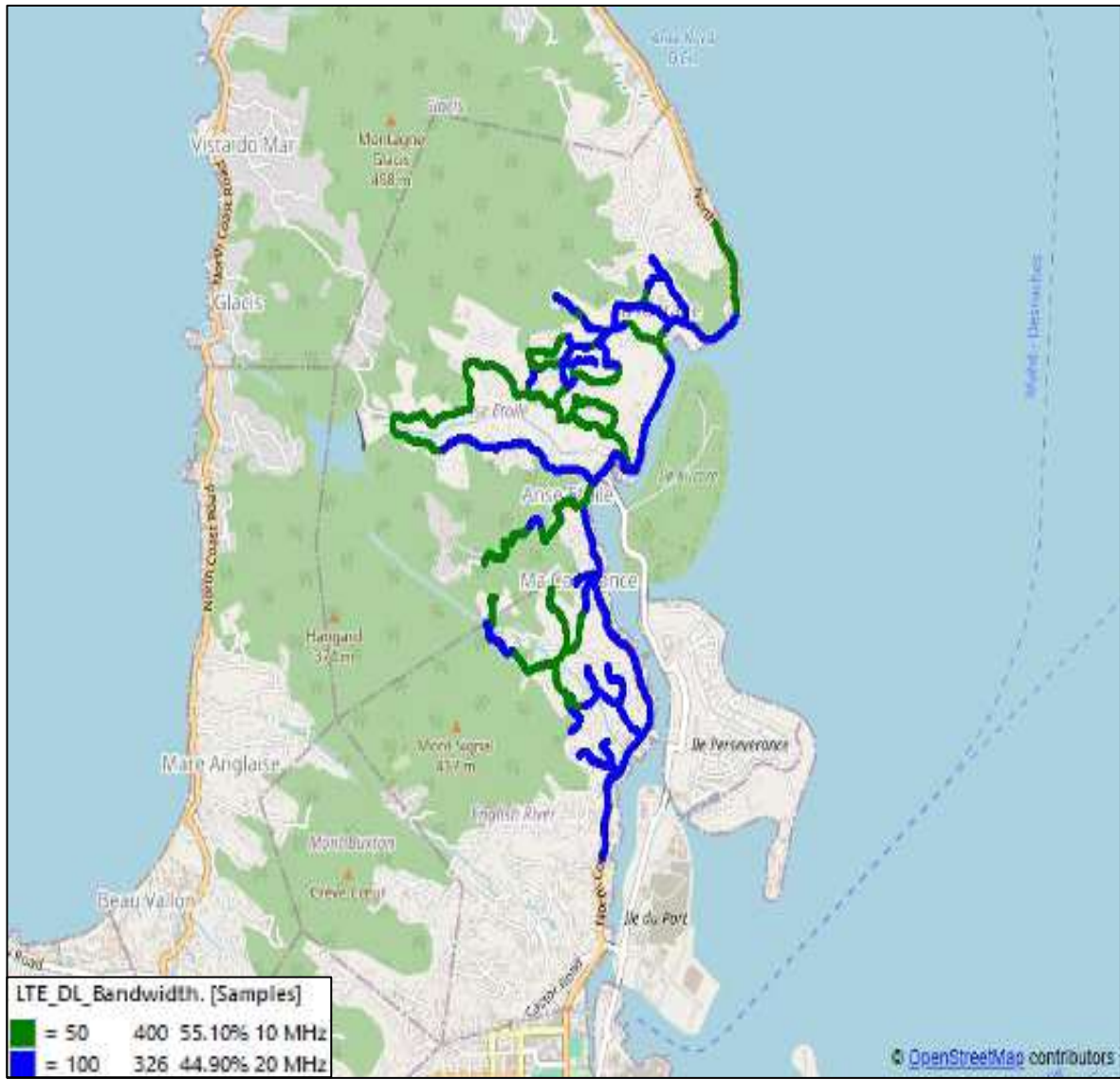
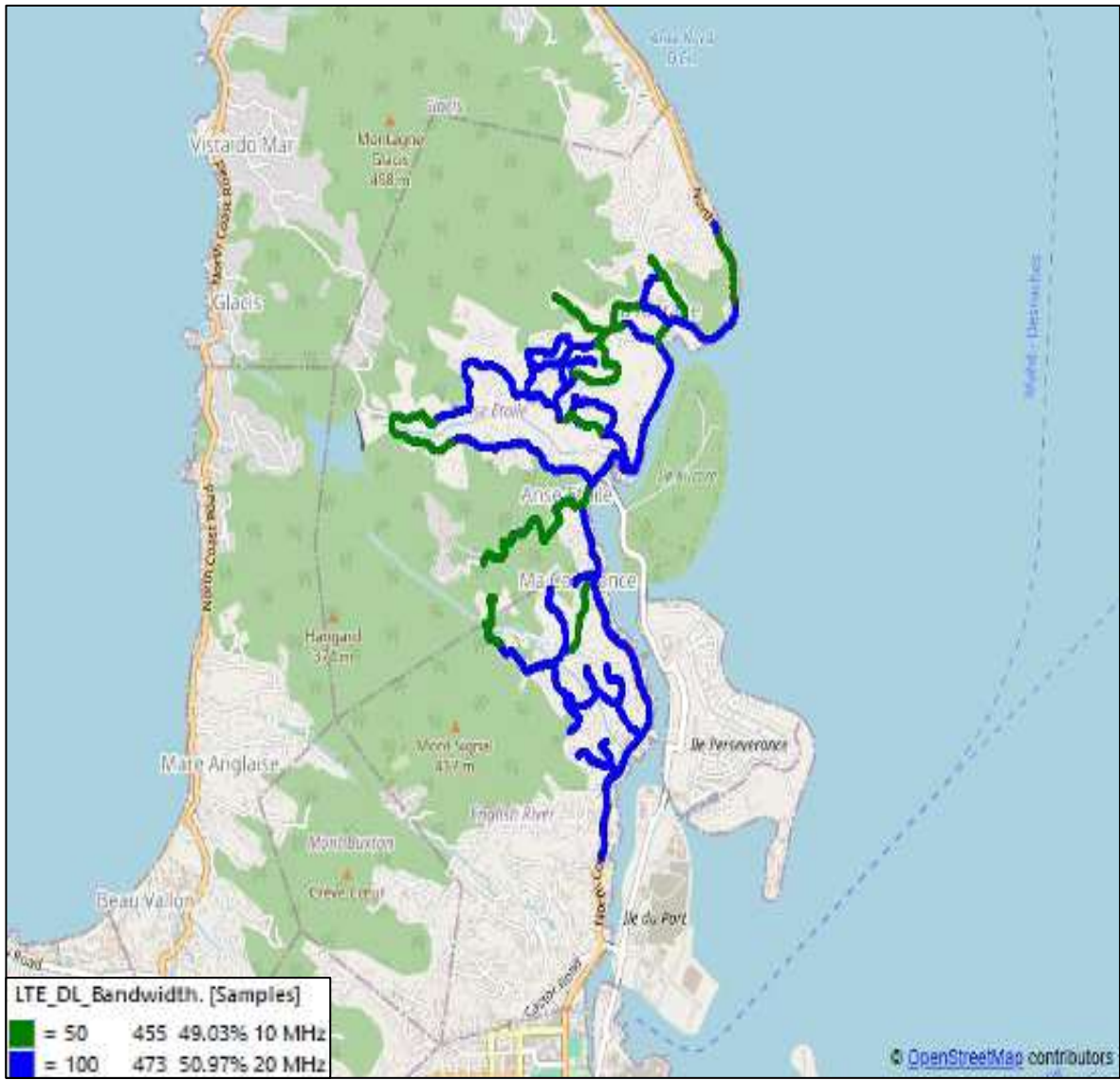
Airtel Data 4G

CWS Data 4G



Airtel Data 4G

CWS Data 4G



Negative Event Analysis

Phase-1 Call Drop & Call Attempt Failure Airtel , CWS Summary

| Call Attempt Failure cause from Airtel | Count |
|--|----------|
| Total Call Attempt Failure | 1 |
| Poor Quality | 1 |

| Call Attempt Failure cause from CWS | Count |
|-------------------------------------|----------|
| Total Call Attempt Failure | 3 |
| Poor Quality | 2 |
| Network End | 1 |

| Call Drop cause from Airtel | Count |
|-----------------------------|----------|
| Total Call Drop | 0 |
| | |

| Call Drop cause from CWS | Count |
|--------------------------|----------|
| Total Call Drop | 0 |
| | |

Phase-1 Call Attempt Failure Analysis 1 From MS5 Airtel MO

| | Time | System | Serving band | Cal | 1. best active RSCP | Time | Ch | SC | 1. best z | | System | Transf. dir. | Time | Subchannel | Message name |
|----|--------------|----------|--------------|-----|---------------------|--------------|------|-----|-----------|--------|----------|--------------|--------------|------------|---|
| 1. | 11:04:34.736 | UMTS FDD | 900 | No | 7227. | 11:04:29.647 | 3050 | 145 | -10.7 | 26089. | UMTS FDD | Downlink | 11:04:29.296 | DCCH | PHYSICAL_CHANNEL_RECONFIGURATION |
| | | | | | 7228. | 11:04:30.166 | 3050 | 145 | | 26090. | UMTS FDD | Downlink | 11:04:29.376 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 7229. | 11:04:30.166 | 3050 | 137 | -12 | 26091. | UMTS FDD | Downlink | 11:04:29.376 | DCCH | MODIFY_PDP_CONTEXT_REQUEST |
| | | | | | 7230. | 11:04:30.746 | 3050 | 145 | -85.4 | 26092. | UMTS FDD | Uplink | 11:04:29.377 | DCCH | UPLINK_DIRECT_TRANSFER |
| | | | | | 7231. | 11:04:30.746 | 3050 | 145 | -14.6 | 26093. | UMTS FDD | Uplink | 11:04:29.377 | DCCH | MODIFY_PDP_CONTEXT_ACCEPT |
| | | | | | 7232. | 11:04:31.286 | 3050 | 145 | -88 | 26094. | UMTS FDD | Uplink | 11:04:29.657 | DCCH | PHYSICAL_CHANNEL_RECONFIGURATION_COMPLETE |
| | | | | | 7233. | 11:04:31.286 | 3050 | 145 | -20 | 26095. | UMTS FDD | Downlink | 11:04:29.856 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 7234. | 11:04:31.833 | 3050 | 145 | -86.2 | 26096. | UMTS FDD | Downlink | 11:04:29.856 | DCCH | PROGRESS |
| | | | | | 7235. | 11:04:31.833 | 3050 | 145 | -21.6 | 26097. | UMTS FDD | Uplink | 11:04:30.011 | DCCH | MEASUREMENT_REPORT |
| | | | | | 7236. | 11:04:32.386 | 3050 | 145 | -83.4 | 26098. | UMTS FDD | Downlink | 11:04:30.296 | DCCH | ACTIVE_SET_UPDATE |
| | | | | | 7237. | 11:04:32.386 | 3050 | 145 | -20.6 | 26099. | UMTS FDD | Uplink | 11:04:30.308 | DCCH | ACTIVE_SET_UPDATE_COMPLETE |
| | | | | | 7238. | 11:04:32.908 | 3050 | 145 | -88.2 | 26100. | UMTS FDD | Downlink | 11:04:30.576 | DCCH | PHYSICAL_CHANNEL_RECONFIGURATION |
| | | | | | 7239. | 11:04:32.908 | 3050 | 145 | -22.5 | 26101. | UMTS FDD | Uplink | 11:04:30.618 | DCCH | PHYSICAL_CHANNEL_RECONFIGURATION_COMPLETE |
| | | | | | 7240. | 11:04:33.299 | 3050 | 335 | -73.9 | 26102. | UMTS FDD | Uplink | 11:04:30.670 | DCCH | MEASUREMENT_REPORT |
| | | | | | 7241. | 11:04:33.299 | 3050 | 335 | -10.5 | 26103. | UMTS FDD | Uplink | 11:04:30.698 | DCCH | MEASUREMENT_REPORT |
| | | | | | 7242. | 11:04:33.879 | 3050 | 335 | -83.7 | 26104. | UMTS FDD | Downlink | 11:04:31.056 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 7243. | 11:04:33.879 | 3050 | 335 | -10.5 | 26105. | UMTS FDD | Downlink | 11:04:31.096 | DCCH | ACTIVE_SET_UPDATE |
| | | | | | 7244. | 11:04:34.415 | 3050 | 335 | -86.1 | 26106. | UMTS FDD | Uplink | 11:04:31.127 | DCCH | ACTIVE_SET_UPDATE_COMPLETE |
| | | | | | 7245. | 11:04:34.415 | 3050 | 335 | -11.5 | 26107. | UMTS FDD | Uplink | 11:04:31.352 | DCCH | MEASUREMENT_REPORT |
| | | | | | 7246. | 11:04:34.916 | 3050 | 335 | -85.7 | 26108. | UMTS FDD | Downlink | 11:04:31.456 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 7247. | 11:04:34.916 | 3050 | 335 | -9.3 | 26109. | UMTS FDD | Downlink | 11:04:31.496 | DCCH | ACTIVE_SET_UPDATE |
| | | | | | 7248. | 11:04:35.586 | 3050 | 335 | -88.1 | 26110. | UMTS FDD | Uplink | 11:04:31.528 | DCCH | ACTIVE_SET_UPDATE_COMPLETE |
| | | | | | 7249. | 11:04:35.586 | 3050 | 335 | -13.9 | 26111. | UMTS FDD | Uplink | 11:04:31.637 | DCCH | MEASUREMENT_REPORT |
| | | | | | 7250. | 11:04:35.986 | 3050 | 145 | -83.8 | 26112. | UMTS FDD | Uplink | 11:04:31.934 | DCCH | MEASUREMENT_REPORT |
| | | | | | 7251. | 11:04:35.986 | 3050 | 145 | -10.9 | 26113. | UMTS FDD | Uplink | 11:04:31.934 | DCCH | MEASUREMENT_REPORT |
| | | | | | 7252. | 11:04:36.541 | 3050 | 335 | -86.9 | 26114. | UMTS FDD | Downlink | 11:04:31.936 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 7253. | 11:04:36.541 | 3050 | 335 | -18.8 | 26115. | UMTS FDD | Downlink | 11:04:32.496 | DCCH | PHYSICAL_CHANNEL_RECONFIGURATION |
| | | | | | 7254. | 11:04:37.092 | 3050 | 232 | -83.1 | 26116. | UMTS FDD | Uplink | 11:04:32.656 | DCCH | PHYSICAL_CHANNEL_RECONFIGURATION_COMPLETE |
| | | | | | 7255. | 11:04:37.092 | 3050 | 232 | -14.8 | 26117. | UMTS FDD | Downlink | 11:04:32.896 | DCCH | ACTIVE_SET_UPDATE |
| | | | | | 7256. | 11:04:37.614 | 3050 | 335 | -78.1 | 26118. | UMTS FDD | Uplink | 11:04:32.928 | DCCH | ACTIVE_SET_UPDATE_COMPLETE |
| | | | | | 7257. | 11:04:37.614 | 3050 | 335 | -11.8 | 26119. | UMTS FDD | Uplink | 11:04:33.003 | DCCH | MEASUREMENT_REPORT |
| | | | | | 7258. | 11:04:38.172 | 3050 | 335 | -79.9 | 26120. | UMTS FDD | Downlink | 11:04:33.296 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 7259. | 11:04:38.172 | 3050 | 335 | -10.1 | 26121. | UMTS FDD | Downlink | 11:04:33.336 | DCCH | ACTIVE_SET_UPDATE |
| | | | | | 7260. | 11:04:38.772 | 3050 | 335 | -78.3 | 26122. | UMTS FDD | Uplink | 11:04:33.368 | DCCH | ACTIVE_SET_UPDATE_COMPLETE |
| | | | | | 7261. | 11:04:38.772 | 3050 | 335 | -10 | 26123. | UMTS FDD | Uplink | 11:04:33.651 | DCCH | MEASUREMENT_REPORT |
| | | | | | 7262. | 11:04:39.277 | 3050 | 232 | -84.9 | 26124. | UMTS FDD | Uplink | 11:04:33.651 | DCCH | MEASUREMENT_REPORT |

Analysis:

- This call failure event occurred on short call at 11:04:34:736 time when UE was latched with 3G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding" message. After that call setup has been failed.
- During the failure, UE was latched with PSC 335 and RF condition RSCP -73.9 dBm is good but Ec/No -22.5 dB are very poor.
- As per the analysis call failed happened due to poor Poor Quality of the network.

Phase-1 Call Attempt Failure Analysis 1 From MS7 CWS MO

| | Time | System | Serving band | | RxLev sub | ARFCN | BSIC | C1 | C2 | LAC | RAC | RXQ sub | | System | Transf. dir. | Time | Subchannel | Message name | |
|----|--------------|----------|--------------|-----|-----------|-------|------|----|----|-----|-----|---------|--|--------|--------------|----------|--------------|--------------|---------------------------------|
| 1. | 10:25:09.194 | GSM | 900 | Cal | 667. | | | | | 1 | 0 | | | 12994. | GSM | Uplink | 10:25:02.293 | DCCH | UTRAN_CLASSMARK_CHANGE |
| 2. | 10:25:53.509 | GSM | 900 | Dro | 668. | | | | | 1 | 0 | | | 12995. | GSM | Uplink | 10:25:02.293 | DCCH | GPRS_SUSPENSION_REQUEST |
| 3. | 10:34:17.653 | UMTS FDD | 2100 | Dro | 669. | | | | | 1 | 0 | | | 12996. | GSM | Downlink | 10:25:02.528 | DCCH | IDENTITY_REQUEST |
| | | | | | 670. | -95 | 11 | 18 | | 1 | 0 | | | 12997. | GSM | Uplink | 10:25:02.528 | DCCH | IDENTITY_RESPONSE |
| | | | | | 671. | | | | | | | 7 | | 12998. | GSM | Uplink | 10:25:02.740 | SACCH | MEASUREMENT_REPORT |
| | | | | | 672. | | | | | | | 6 | | 12999. | GSM | Downlink | 10:25:02.911 | SACCH | SYSTEM_INFORMATION_TYPE_5TER |
| | | | | | 673. | -95 | 11 | 18 | | 1 | 0 | | | 13000. | GSM | Uplink | 10:25:03.211 | SACCH | MEASUREMENT_REPORT |
| | | | | | 674. | -93 | 11 | 18 | | 1 | 0 | | | 13001. | GSM | Downlink | 10:25:03.382 | SACCH | SYSTEM_INFORMATION_TYPE_6 |
| | | | | | 675. | | | | | | | 7 | | 13002. | GSM | Downlink | 10:25:03.469 | DCCH | CLASSMARK_ENQUIRY |
| | | | | | 676. | -98 | 11 | 18 | | 1 | 0 | | | 13003. | GSM | Uplink | 10:25:03.469 | DCCH | CLASSMARK_CHANGE |
| | | | | | 677. | | | | | | | 0 | | 13004. | GSM | Uplink | 10:25:03.470 | DCCH | UTRAN_CLASSMARK_CHANGE |
| | | | | | 678. | -95 | 11 | 18 | | 1 | 0 | | | 13005. | GSM | Uplink | 10:25:03.682 | SACCH | MEASUREMENT_REPORT |
| | | | | | 679. | | | | | | | 0 | | 13006. | GSM | Uplink | 10:25:04.153 | SACCH | MEASUREMENT_REPORT |
| | | | | | 680. | -92 | 11 | 18 | | 1 | 0 | | | 13007. | GSM | Downlink | 10:25:04.411 | DCCH | CIPHERING_MODE_COMMAND |
| | | | | | 681. | | | | | | | 0 | | 13008. | GSM | Uplink | 10:25:04.416 | DCCH | CIPHERING_MODE_COMPLETE |
| | | | | | 682. | | | | | | | 3 | | 13009. | GSM | Uplink | 10:25:04.416 | DCCH | SETUP |
| | | | | | 683. | -99 | 11 | 18 | | 1 | 0 | | | 13010. | GSM | Uplink | 10:25:04.623 | SACCH | MEASUREMENT_REPORT |
| | | | | | 684. | -96 | 11 | 18 | | 1 | 0 | | | 13011. | GSM | Downlink | 10:25:04.794 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 685. | | | | | | | 2 | | 13012. | GSM | Uplink | 10:25:05.094 | SACCH | MEASUREMENT_REPORT |
| | | | | | 686. | | | | | | | 0 | | 13013. | GSM | Downlink | 10:25:05.265 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 687. | -92 | 11 | 18 | | 1 | 0 | | | 13014. | GSM | Uplink | 10:25:05.565 | SACCH | MEASUREMENT_REPORT |
| | | | | | 688. | | | | | | | 7 | | 13015. | GSM | Downlink | 10:25:05.736 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 689. | -94 | 11 | 18 | | 1 | 0 | | | 13016. | GSM | Uplink | 10:25:06.036 | SACCH | MEASUREMENT_REPORT |
| | | | | | 690. | | | | | | | | | 13017. | GSM | Downlink | 10:25:06.206 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 691. | | | | | 1 | 0 | | | 13018. | GSM | Uplink | 10:25:06.506 | SACCH | MEASUREMENT_REPORT |
| | | | | | 692. | | | | | 1 | 0 | | | 13019. | GSM | Downlink | 10:25:06.677 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 693. | -94 | 11 | 18 | 12 | 12 | 1 | 0 | | 13020. | GSM | Uplink | 10:25:06.977 | SACCH | MEASUREMENT_REPORT |
| | | | | | 694. | -98 | 11 | 18 | 8 | 8 | 1 | 0 | | 13021. | GSM | Downlink | 10:25:07.148 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 695. | -97 | 11 | 18 | 9 | 9 | 1 | 0 | | 13022. | GSM | Uplink | 10:25:07.448 | SACCH | MEASUREMENT_REPORT |
| | | | | | 696. | -96 | 11 | 18 | 10 | 10 | 1 | 0 | | 13023. | GSM | Uplink | 10:25:07.919 | SACCH | MEASUREMENT_REPORT |
| | | | | | 697. | -96 | 11 | 18 | 10 | 10 | 1 | 0 | | 13024. | GSM | Downlink | 10:25:07.942 | DCCH | CHANNEL_RELEASE |
| | | | | | 698. | -96 | 11 | 18 | 10 | 10 | 1 | 0 | | 13025. | GSM | Downlink | 10:25:11.186 | BCCH | SYSTEM_INFORMATION_TYPE_3 |
| | | | | | 699. | -97 | 11 | 18 | 9 | 9 | 1 | 0 | | 13026. | GSM | Downlink | 10:25:11.279 | BCCH | SYSTEM_INFORMATION_TYPE_1 |
| | | | | | 700. | -96 | 11 | 18 | 10 | 10 | 1 | 0 | | 13027. | GSM | Downlink | 10:25:11.279 | BCCH | SYSTEM_INFORMATION_TYPE_2 |
| | | | | | 701. | -96 | 11 | 18 | 10 | 10 | 1 | 0 | | 13028. | GSM | Downlink | 10:25:11.279 | BCCH | SYSTEM_INFORMATION_TYPE_2QUATER |
| | | | | | 702. | -96 | 11 | 18 | 10 | 10 | 1 | 0 | | 13029. | GSM | Downlink | 10:25:11.280 | BCCH | SYSTEM_INFORMATION_TYPE_4 |
| | | | | | 703. | -96 | 11 | 18 | 10 | 10 | 1 | 0 | | 13030. | GSM | Downlink | 10:25:11.280 | BCCH | SYSTEM_INFORMATION_TYPE_3 |

Analysis:

- This call failure event occurred on short call at 10:25:09:194 time when UE was latched with 2G network.
- During the session before the call failure UE send "CM Service Request " and "Setup" message to core network. Then call setup has been failed.
- During the session UE was latched with ARFCN 11 and RF condition Rx lev -94 dBm is poor and Rx qual 7 dB was very poor.
- As per the Analysis the call setup failure event occurred due to poor quality in the network.

Phase-1 Call Attempt Failure Analysis 2 From MS7 CWS MO

| | Time | System | Serving band | | RxLev sub | ARFCN | BSIC | C1 | C2 | LAC | RAC | RXQ sub | | System | Transf. dir. | Time | Subchannel | Message name | |
|----|--------------|----------|--------------|------|-----------|-------|------|----|----|-----|-----|---------|--|--------|--------------|----------|--------------|--------------|---------------------------------|
| 1. | 10:25:09.194 | GSM | 900 | Call | 715. | | | | | 1 | 0 | | | 13254. | UMTS FDD | Uplink | 10:25:49.001 | DCCH | MEASUREMENT_REPORT |
| 2. | 10:25:53.509 | GSM | 900 | Dro | 716. | | | | | 1 | 0 | | | 13255. | UMTS FDD | Uplink | 10:25:49.365 | DCCH | MEASUREMENT_REPORT |
| 3. | 10:34:17.653 | UMTS FDD | 2100 | Dro | 717. | -93 | 11 | 18 | 13 | 13 | 1 | 0 | | 13256. | UMTS FDD | Uplink | 10:25:49.442 | DCCH | MEASUREMENT_REPORT |
| | | | | | 718. | -93 | 11 | 18 | 13 | 13 | 1 | 0 | | 13257. | UMTS FDD | Uplink | 10:25:49.455 | DCCH | MEASUREMENT_REPORT |
| | | | | | 719. | | | | | | 1 | 0 | | 13258. | UMTS FDD | Downlink | 10:25:49.840 | DCCH | HANDOVER_FROM_UTRAN_COMMAND_GSM |
| | | | | | 720. | | | | | | | 7 | | 13259. | UMTS FDD | Downlink | 10:25:49.840 | DCCH | HANDOVER_COMMAND |
| | | | | | 721. | -94 | 26 | 18 | | | 10 | 10 | | 13260. | GSM | Downlink | 10:25:49.858 | DCCH | HANDOVER_COMMAND |
| | | | | | 722. | | | | | | | 6 | | 13261. | GSM | Downlink | 10:25:49.975 | DCCH | PHYSICAL_INFORMATION |
| | | | | | 723. | -92 | 26 | 18 | | | 10 | 10 | | 13262. | GSM | Uplink | 10:25:49.975 | DCCH | HANDOVER_COMPLETE |
| | | | | | 724. | | | | | | | 5 | | 13263. | GSM | Uplink | 10:25:50.105 | DCCH | GPRS_SUSPENSION_REQUEST |
| | | | | | 725. | -88 | 26 | 18 | | | 1 | 10 | | 13264. | GSM | Uplink | 10:25:50.169 | SACCH | MEASUREMENT_REPORT |
| | | | | | 726. | | | | | | | 4 | | 13265. | GSM | Downlink | 10:25:50.234 | DCCH | IDENTITY_REQUEST |
| | | | | | 727. | -93 | 26 | 18 | | | 1 | 10 | | 13266. | GSM | Uplink | 10:25:50.234 | DCCH | IDENTITY_RESPONSE |
| | | | | | 728. | | | | | | | 3 | | 13267. | GSM | Downlink | 10:25:50.603 | SACCH | SYSTEM_INFORMATION_TYPE_5 |
| | | | | | 729. | | | | | | | 0 | | 13268. | GSM | Uplink | 10:25:50.649 | SACCH | MEASUREMENT_REPORT |
| | | | | | 730. | -88 | 26 | 18 | | | 1 | 10 | | 13269. | GSM | Downlink | 10:25:51.083 | SACCH | SYSTEM_INFORMATION_TYPE_5TER |
| | | | | | 731. | -91 | 26 | 18 | | | 1 | 10 | | 13270. | GSM | Uplink | 10:25:51.129 | SACCH | MEASUREMENT_REPORT |
| | | | | | 732. | | | | | | | 6 | | 13271. | GSM | Downlink | 10:25:51.563 | SACCH | SYSTEM_INFORMATION_TYPE_6 |
| | | | | | 733. | | | | | | | 6 | | 13272. | GSM | Uplink | 10:25:51.609 | SACCH | MEASUREMENT_REPORT |
| | | | | | 734. | | | | | | | 6 | | 13273. | GSM | Downlink | 10:25:52.043 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 735. | -95 | 26 | 18 | | | 1 | 10 | | 13274. | GSM | Uplink | 10:25:52.089 | SACCH | MEASUREMENT_REPORT |
| | | | | | 736. | | | | | | | | | 13275. | GSM | Downlink | 10:25:52.523 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 737. | | | | | | 1 | 0 | | 13276. | GSM | Uplink | 10:25:52.569 | SACCH | MEASUREMENT_REPORT |
| | | | | | 738. | -81 | 13 | 10 | | | 1 | 0 | | 13277. | GSM | Downlink | 10:25:53.003 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 739. | | | | | | | 0 | | 13278. | GSM | Uplink | 10:25:53.049 | SACCH | MEASUREMENT_REPORT |
| | | | | | 740. | -84 | 13 | 10 | | | 1 | 0 | | 13279. | GSM | Downlink | 10:25:53.437 | DCCH | DISCONNECT |
| | | | | | 741. | | | | | | | 0 | | 13280. | GSM | Downlink | 10:25:53.483 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 742. | -88 | 13 | 10 | | | 1 | 0 | | 13281. | GSM | Uplink | 10:25:53.509 | DCCH | RELEASE |
| | | | | | 743. | | | | | | | 0 | | 13282. | GSM | Uplink | 10:25:53.529 | SACCH | MEASUREMENT_REPORT |
| | | | | | 744. | -83 | 13 | 10 | | | 1 | 0 | | 13283. | GSM | Downlink | 10:25:53.635 | DCCH | RELEASE_COMPLETE |
| | | | | | 745. | | | | | | | 6 | | 13284. | GSM | Downlink | 10:25:53.755 | DCCH | CHANNEL_RELEASE |
| | | | | | 746. | -87 | 13 | 10 | | | 1 | 0 | | 13285. | GSM | Downlink | 10:25:54.893 | BCCH | SYSTEM_INFORMATION_TYPE_13 |
| | | | | | 747. | | | | | | | 0 | | 13286. | GSM | Downlink | 10:25:56.305 | BCCH | SYSTEM_INFORMATION_TYPE_3 |
| | | | | | 748. | -84 | 13 | 10 | | | 1 | 0 | | 13287. | GSM | Downlink | 10:25:56.324 | BCCH | SYSTEM_INFORMATION_TYPE_13 |
| | | | | | 749. | | | | | | | 0 | | 13288. | GSM | Downlink | 10:25:56.325 | BCCH | SYSTEM_INFORMATION_TYPE_3 |
| | | | | | 750. | -87 | 13 | 10 | | | 1 | 0 | | 13289. | GSM | Downlink | 10:25:56.538 | BCCH | SYSTEM_INFORMATION_TYPE_4 |
| | | | | | 751. | | | | | | | 0 | | 13290. | GSM | Downlink | 10:25:57.004 | BCCH | SYSTEM_INFORMATION_TYPE_2QUATER |

- Analysis:**
- This call failure event occurred on short call at 10:25:53:509 time when UE was latched with 2G network.
 - After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding" message. failed with the Reject Cause (27): Destination out of order.
 - During the session UE was latched with ARFCN 26 and RF condition Rx lev -91 dBm is good and Rx qual 6 dB was very poor.
 - As per the Analysis the call setup failure event occurred due to poor quality in the network.

Phase-1 Call Attempt Failure Analysis 3 From MS7 CWS MO

| | Time | System | Serving band | | 1. best active RSCP | Time | Ch | SC | 1. bes ▲ | Event ID | System | Transf. dir. | Time | Subchannel | Message name | |
|----|--------------|----------|--------------|------|---------------------|--------------|-------|-----|----------|----------|--------|--------------|----------|-------------|--------------|---------------------------------------|
| 1. | 10:25:09.194 | GSM | 900 | Call | 4535. | 10:33:42.832 | 10740 | 38 | -6.3 | 15326. | RRCSM | UMTS FDD | Downlink | 10:34:14.44 | CCCH | RRC_CONNECTION_SETUP |
| 2. | 10:25:53.509 | GSM | 900 | Dro | 4536. | 10:33:43.532 | 10740 | 38 | | 15327. | RRCSM | UMTS FDD | Uplink | 10:34:14.49 | DCCH | RRC_CONNECTION_SETUP_COMPLETE |
| 3. | 10:34:17.653 | UMTS FDD | 2100 | Dro | 4537. | 10:33:43.532 | 10740 | 38 | -9.2 | 15328. | RRCSM | UMTS FDD | Uplink | 10:34:14.49 | DCCH | INITIAL_DIRECT_TRANSFER |
| | | | | | 4538. | 10:33:43.832 | 10740 | 38 | | 15329. | L3SM | UMTS FDD | Uplink | 10:34:14.49 | DCCH | CM_SERVICE_REQUEST |
| | | | | | 4539. | 10:33:43.832 | 10740 | 38 | -4.6 | 15330. | RRCSM | UMTS FDD | Uplink | 10:34:14.49 | DCCH | INITIAL_DIRECT_TRANSFER |
| | | | | | 4540. | 10:34:14.517 | 10690 | 38 | | 15331. | L3SM | UMTS FDD | Uplink | 10:34:14.49 | DCCH | ROUTING_AREA_UPDATE_REQUEST |
| | | | | | 4541. | 10:34:14.517 | 10690 | 38 | -4 | 15332. | RRCSM | UMTS FDD | Downlink | 10:34:14.75 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 4542. | 10:34:14.942 | 10690 | 38 | | 15333. | RRCSM | UMTS FDD | Downlink | 10:34:14.81 | DCCH | SECURITY_MODE_COMMAND |
| | | | | | 4543. | 10:34:14.942 | 10690 | 38 | -3.2 | 15334. | RRCSM | UMTS FDD | Uplink | 10:34:14.81 | DCCH | SECURITY_MODE_COMPLETE |
| | | | | | 4544. | 10:34:15.585 | 10690 | 38 | | 15335. | RRCSM | UMTS FDD | Uplink | 10:34:14.89 | DCCH | UPLINK_DIRECT_TRANSFER |
| | | | | | 4545. | 10:34:15.585 | 10690 | 38 | -3.1 | 15336. | L3SM | UMTS FDD | Uplink | 10:34:14.89 | DCCH | SETUP |
| | | | | | 4546. | 10:34:16.043 | 10690 | 38 | | 15337. | RRCSM | UMTS FDD | Downlink | 10:34:14.91 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 4547. | 10:34:16.043 | 10690 | 38 | -4.2 | 15338. | L3SM | UMTS FDD | Downlink | 10:34:14.91 | DCCH | TMSI_REALLOCATION_COMMAND |
| | | | | | 4548. | 10:34:16.527 | 10690 | 38 | | 15339. | RRCSM | UMTS FDD | Uplink | 10:34:14.91 | DCCH | UPLINK_DIRECT_TRANSFER |
| | | | | | 4549. | 10:34:16.527 | 10690 | 38 | -2.9 | 15340. | L3SM | UMTS FDD | Uplink | 10:34:14.91 | DCCH | TMSI_REALLOCATION_COMPLETE |
| | | | | | 4550. | 10:34:16.942 | 10690 | 38 | | 15341. | RRCSM | UMTS FDD | Downlink | 10:34:15.04 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 4551. | 10:34:16.942 | 10690 | 38 | -3.5 | 15342. | L3SM | UMTS FDD | Downlink | 10:34:15.04 | DCCH | CALL_PROCEEDING |
| | | | | | 4552. | 10:34:17.653 | 10690 | 38 | | 15343. | RRCSM | UMTS FDD | Downlink | 10:34:16.62 | DCCH | RADIO_BEARER_SETUP |
| | | | | | 4553. | 10:34:17.653 | 10690 | 38 | -3.9 | 15344. | RRCSM | UMTS FDD | Uplink | 10:34:16.85 | DCCH | RADIO_BEARER_SETUP_COMPLETE |
| | | | | | 4554. | 10:34:17.984 | 10690 | 38 | | 15345. | RRCSM | UMTS FDD | Downlink | 10:34:17.10 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 4555. | 10:34:17.984 | 10690 | 38 | -3.5 | 15346. | RRCSM | UMTS FDD | Downlink | 10:34:17.14 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 4556. | 10:34:18.634 | 10690 | 38 | | 15347. | RRCSM | UMTS FDD | Downlink | 10:34:17.18 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 4557. | 10:34:18.634 | 10690 | 38 | -4.8 | 15348. | RRCSM | UMTS FDD | Downlink | 10:34:17.22 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 4558. | 10:34:19.376 | 10690 | 38 | | 15349. | RRCSM | UMTS FDD | Downlink | 10:34:17.30 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 4559. | 10:34:19.376 | 10690 | 38 | -6.6 | 15350. | L3SM | UMTS FDD | Downlink | 10:34:17.30 | DCCH | DISCONNECT |
| | | | | | 4560. | 10:34:48.596 | 10690 | 116 | | 15351. | RRCSM | UMTS FDD | Downlink | 10:34:17.42 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 4561. | 10:34:48.596 | 10690 | 116 | -8.3 | 15352. | L3SM | UMTS FDD | Downlink | 10:34:17.42 | DCCH | AUTHENTICATION_AND_CIPHERING_REQUEST |
| | | | | | 4562. | 10:34:49.106 | 10690 | 116 | | 15353. | RRCSM | UMTS FDD | Uplink | 10:34:17.45 | DCCH | UPLINK_DIRECT_TRANSFER |
| | | | | | 4563. | 10:34:49.106 | 10690 | 116 | -6.7 | 15354. | L3SM | UMTS FDD | Uplink | 10:34:17.45 | DCCH | AUTHENTICATION_AND_CIPHERING_RESPONSE |
| | | | | | 4564. | 10:34:49.568 | 10690 | 116 | | 15355. | RRCSM | UMTS FDD | Uplink | 10:34:17.46 | DCCH | UPLINK_DIRECT_TRANSFER |
| | | | | | 4565. | 10:34:49.568 | 10690 | 116 | -11.1 | 15356. | L3SM | UMTS FDD | Uplink | 10:34:17.46 | DCCH | RELEASE |
| | | | | | 4566. | 10:34:49.806 | 10690 | 116 | | 15357. | RRCSM | UMTS FDD | Downlink | 10:34:17.90 | DCCH | RADIO_BEARER_RELEASE |
| | | | | | 4567. | 10:34:49.806 | 10690 | 116 | -13.8 | 15358. | RRCSM | UMTS FDD | Downlink | 10:34:17.98 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 4568. | 10:34:50.598 | 10690 | 38 | | 15359. | L3SM | UMTS FDD | Downlink | 10:34:17.98 | DCCH | RELEASE_COMPLETE |
| | | | | | 4569. | 10:34:50.598 | 10690 | 38 | -6 | 15360. | RRCSM | UMTS FDD | Uplink | 10:34:18.39 | DCCH | MEASUREMENT_REPORT |

Analysis:

- This call failure event occurred on short short call at 10:34:17:653 time when UE was latched with 3G network.
- During the session before the call failure UE send “CM Service Request “ and “Setup” message to core network. Then call setup has been failed.
- During the session UE was latched with PSC 38 and RF condition RSCP -66 dBm and ECNO -3.9 dB are very good.
- Need to check MT End.

Phase-1 Call Attempt Failure Analysis 3 From MS8 CWS MT

| | Time | Band | Band (MHz) | Ch | PCI | RSRP | SNR | | Event ID | System | Transf. dir. | Time | Subchannel | Message name | |
|-------|--------------|------|------------|------|-----|-------|------|--|----------|--------|--------------|----------|--------------|--------------|--------------------------------------|
| 7745. | 10:34:07.904 | | | | | | 13.4 | | 15439. | RRCSM | LTE FDD | Uplink | 10:33:49.285 | DCCH | RRCCONNECTIONRECONFIGURATIONCOMPLETE |
| 7746. | 10:34:08.774 | B20 | 800 | 6300 | 133 | -78.8 | | | 15440. | RRCSM | LTE FDD | Downlink | 10:33:49.302 | DCCH | RRCCONNECTIONRECONFIGURATION |
| 7747. | 10:34:08.774 | | | | | | 12.9 | | 15441. | RRCSM | LTE FDD | Uplink | 10:33:49.303 | DCCH | RRCCONNECTIONRECONFIGURATIONCOMPLETE |
| 7748. | 10:34:09.586 | B20 | 800 | 6300 | 133 | -76.5 | | | 15442. | RRCSM | LTE FDD | Uplink | 10:33:49.849 | DCCH | MEASUREMENTREPORT |
| 7749. | 10:34:09.586 | | | | | | 15.5 | | 15443. | RRCSM | LTE FDD | Uplink | 10:33:49.849 | DCCH | MEASUREMENTREPORT |
| 7750. | 10:34:09.714 | B20 | 800 | 6300 | 133 | -76.5 | | | 15444. | RRCSM | LTE FDD | Downlink | 10:33:51.134 | PCCH | PAGING |
| 7751. | 10:34:10.974 | B20 | 800 | 6300 | 133 | -80.9 | | | 15445. | RRCSM | LTE FDD | Downlink | 10:33:52.414 | PCCH | PAGING |
| 7752. | 10:34:10.974 | | | | | | 12.8 | | 15446. | RRCSM | LTE FDD | Downlink | 10:33:53.694 | PCCH | PAGING |
| 7753. | 10:34:12.594 | B20 | 800 | 6300 | 133 | -83.5 | | | 15447. | RRCSM | LTE FDD | Downlink | 10:33:54.974 | PCCH | PAGING |
| 7754. | 10:34:12.594 | | | | | | 17.5 | | 15448. | RRCSM | LTE FDD | Downlink | 10:33:58.814 | PCCH | PAGING |
| 7755. | 10:34:13.599 | B20 | 800 | 6300 | 133 | -77.4 | | | 15449. | RRCSM | LTE FDD | Downlink | 10:34:01.374 | PCCH | PAGING |
| 7756. | 10:34:13.599 | | | | | | 7.5 | | 15450. | RRCSM | LTE FDD | Downlink | 10:34:02.654 | PCCH | PAGING |
| 7757. | 10:34:14.945 | B20 | 800 | 6300 | 133 | -77 | | | 15451. | RRCSM | LTE FDD | Downlink | 10:34:05.214 | PCCH | PAGING |
| 7758. | 10:34:14.945 | | | | | | 5.7 | | 15452. | RRCSM | LTE FDD | Downlink | 10:34:07.768 | DCCH | RRCCONNECTIONRECONFIGURATION |
| 7759. | 10:34:15.594 | B20 | 800 | 6300 | 133 | -78.2 | | | 15453. | RRCSM | LTE FDD | Uplink | 10:34:07.774 | DCCH | RRCCONNECTIONRECONFIGURATIONCOMPLETE |
| 7760. | 10:34:15.594 | | | | | | -1.4 | | 15454. | RRCSM | LTE FDD | Downlink | 10:34:07.774 | PCCH | PAGING |
| 7761. | 10:34:18.642 | | | | | | | | 15455. | RRCSM | LTE FDD | Downlink | 10:34:09.054 | PCCH | PAGING |
| 7762. | 10:34:22.127 | B20 | 800 | 6300 | 275 | -83.3 | | | 15456. | RRCSM | LTE FDD | Downlink | 10:34:09.369 | DCCH | RRCCONNECTIONRELEASE |
| 7763. | 10:34:22.650 | B20 | 800 | 6300 | 275 | -78.2 | | | 15457. | RRCSM | LTE FDD | Downlink | 10:34:09.524 | PCCH | PAGING |
| 7764. | 10:34:22.650 | | | | | | 12.6 | | 15458. | RRCSM | LTE FDD | Downlink | 10:34:13.366 | PCCH | PAGING |
| 7765. | 10:34:23.175 | B20 | 800 | 6300 | 275 | -75.8 | | | 15459. | RRCSM | LTE FDD | Downlink | 10:34:14.646 | PCCH | PAGING |
| 7766. | 10:34:23.175 | | | | | | 13.8 | | 15460. | L3SM | LTE FDD | Uplink | 10:34:15.446 | | DETACH_REQUEST |
| 7767. | 10:34:23.670 | B20 | 800 | 6300 | 275 | -79.5 | | | 15461. | RRCSM | LTE FDD | Uplink | 10:34:15.447 | CCCH | RRCCONNECTIONREQUEST |
| 7768. | 10:34:23.670 | | | | | | 8.8 | | 15462. | RRCSM | LTE FDD | Downlink | 10:34:15.500 | CCCH | RRCCONNECTIONSETUP |
| 7769. | 10:34:24.228 | B20 | 800 | 6300 | 275 | -77.9 | | | 15463. | RRCSM | LTE FDD | Uplink | 10:34:15.504 | DCCH | RRCCONNECTIONSETUPCOMPLETE |
| 7770. | 10:34:24.228 | | | | | | 9 | | 15464. | RRCSM | LTE FDD | Downlink | 10:34:22.036 | BCCH-BCH | MASTERINFORMATIONBLOCK |
| 7771. | 10:34:24.760 | B20 | 800 | 6300 | 275 | -78.5 | | | 15465. | RRCSM | LTE FDD | Downlink | 10:34:22.060 | BCCH-SCH | SYSTEMINFORMATIONBLOCKTYPE1 |
| 7772. | 10:34:24.760 | | | | | | 11.2 | | 15466. | RRCSM | LTE FDD | Downlink | 10:34:22.157 | BCCH-SCH | SYSTEMINFORMATION - SIB2,SIB3 |
| 7773. | 10:34:25.263 | B20 | 800 | 6300 | 275 | -82.4 | | | 15467. | L3SM | LTE FDD | Uplink | 10:34:22.177 | | ATTACH_REQUEST |
| 7774. | 10:34:25.263 | | | | | | 10.8 | | 15468. | L3SM | LTE FDD | Uplink | 10:34:22.177 | | PDN_CONNECTIVITY_REQUEST |
| 7775. | 10:34:25.805 | B20 | 800 | 6300 | 275 | -81.6 | | | 15469. | RRCSM | LTE FDD | Uplink | 10:34:22.178 | CCCH | RRCCONNECTIONREQUEST |
| 7776. | 10:34:25.805 | | | | | | 9.1 | | 15470. | RRCSM | LTE FDD | Downlink | 10:34:22.197 | BCCH-SCH | SYSTEMINFORMATION - SIB5 |
| 7777. | 10:34:26.330 | B20 | 800 | 6300 | 275 | -78.1 | | | 15471. | RRCSM | LTE FDD | Downlink | 10:34:22.231 | CCCH | RRCCONNECTIONSETUP |
| 7778. | 10:34:26.330 | | | | | | 12.9 | | 15472. | RRCSM | LTE FDD | Uplink | 10:34:22.235 | DCCH | RRCCONNECTIONSETUPCOMPLETE |
| 7779. | 10:34:26.839 | B20 | 800 | 6300 | 275 | -77.6 | | | 15473. | RRCSM | LTE FDD | Downlink | 10:34:22.251 | DCCH | DLINFORMATIONTRANSFER |

Analysis:

- On MT End, During the setup fail, UE was latched with PCI 133 and RF condition RSRP -78.2 dBm and SINR -1.4 dB both are ok.
- On both MO And MT Side, RF Conditions seems OK Also there is no abnormal message regarding failure.
- Need to check from Network End.

Phase-2 Call Drop & Call Attempt Failure Airtel , CWS Summary

| Call Attempt Failure cause from Airtel | Count |
|--|----------|
| Total Call Attempt Failure | 1 |
| Poor Quality | 1 |

| Call Attempt Failure cause from CWS | Count |
|-------------------------------------|----------|
| Total Call Attempt Failure | 3 |
| Poor Coverage | 1 |
| Poor Quality | 2 |

| Call Drop cause from Airtel | Count |
|-----------------------------|----------|
| Total Call Drop | 1 |
| Poor Quality | 1 |

| Call Drop cause from CWS | Count |
|--------------------------|----------|
| Total Call Drop | 1 |
| Poor Quality | 1 |

Phase-2 Call Attempt Failure Analysis 1 From MS7 Airtel MO

| | Time | System | Serving band | | Time | RxLev sub | ARFCN | BSIC | LAC | RAC | RXQ sub | ▲ | Event ID | System | Transf. dir. | Time | Subchannel | Message name | |
|----|--------------|--------|--------------|---------|------|--------------|-------|------|-----|-------|---------|---|----------|--------|--------------|----------|--------------|--------------|---------------------------|
| 1. | 11:23:29.512 | GSM | 900 | Call wa | 239. | 11:22:58.158 | -97 | 111 | 43 | 50000 | 1 | | 12166. | L3SM | GSM | Downlink | 11:23:04.829 | SACCH | SYSTEM_INFORMATION_TYPE_5 |
| | | | | | 240. | 11:22:59.157 | -97 | 111 | 43 | 50000 | 1 | | 12167. | L3SM | GSM | Uplink | 11:23:05.148 | SACCH | MEASUREMENT_REPORT |
| | | | | | 241. | 11:23:00.279 | -94 | 111 | 43 | 50000 | 1 | | 12168. | L3SM | GSM | Downlink | 11:23:05.152 | DCCH | AUTHENTICATION_REQUEST |
| | | | | | 242. | 11:23:01.728 | -93 | 111 | 43 | 50000 | 1 | | 12169. | L3SM | GSM | Uplink | 11:23:05.262 | DCCH | AUTHENTICATION_RESPONSE |
| | | | | | 243. | 11:23:02.631 | -93 | 111 | 43 | 50000 | 1 | | 12170. | L3SM | GSM | Downlink | 11:23:05.300 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 244. | 11:23:03.952 | -93 | 111 | 43 | 50000 | 1 | | 12171. | L3SM | GSM | Uplink | 11:23:05.618 | SACCH | MEASUREMENT_REPORT |
| | | | | | 245. | 11:23:04.829 | -93 | 111 | 43 | 50000 | 1 | | 12172. | L3SM | GSM | Downlink | 11:23:05.623 | DCCH | CIPHERING_MODE_COMMAND |
| | | | | | 246. | 11:23:05.618 | -95 | 111 | 43 | 50000 | 1 | | 12173. | L3SM | GSM | Uplink | 11:23:05.627 | DCCH | CIPHERING_MODE_COMPLETE |
| | | | | | 247. | 11:23:05.618 | | | | | 5 | | 12174. | L3SM | GSM | Uplink | 11:23:05.628 | DCCH | SETUP |
| | | | | | 248. | 11:23:06.089 | | | | | 4 | | 12175. | L3SM | GSM | Downlink | 11:23:05.771 | SACCH | SYSTEM_INFORMATION_TYPE_6 |
| | | | | | 249. | 11:23:06.094 | -94 | 111 | 43 | 50000 | 1 | | 12176. | L3SM | GSM | Downlink | 11:23:05.858 | DCCH | IDENTITY_REQUEST |
| | | | | | 250. | 11:23:06.560 | -94 | 111 | 43 | 50000 | 1 | | 12177. | L3SM | GSM | Uplink | 11:23:05.858 | DCCH | IDENTITY_RESPONSE |
| | | | | | 251. | 11:23:06.560 | | | | | 0 | | 12178. | L3SM | GSM | Uplink | 11:23:06.089 | SACCH | MEASUREMENT_REPORT |
| | | | | | 252. | 11:23:07.031 | | | | | 4 | | 12179. | L3SM | GSM | Downlink | 11:23:06.241 | SACCH | SYSTEM_INFORMATION_TYPE_5 |
| | | | | | 253. | 11:23:07.154 | -91 | 111 | 43 | 50000 | 1 | | 12180. | L3SM | GSM | Uplink | 11:23:06.560 | SACCH | MEASUREMENT_REPORT |
| | | | | | 254. | 11:23:07.502 | | | | | 7 | | 12181. | L3SM | GSM | Downlink | 11:23:06.564 | DCCH | CALL_PROCEEDING |
| | | | | | 255. | 11:23:07.654 | -95 | 111 | 43 | 50000 | 1 | | 12182. | L3SM | GSM | Downlink | 11:23:06.712 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 256. | 11:23:07.972 | | | | | 4 | | 12183. | L3SM | GSM | Uplink | 11:23:07.031 | SACCH | MEASUREMENT_REPORT |
| | | | | | 257. | 11:23:08.157 | -94 | 111 | 43 | 50000 | 1 | | 12184. | L3SM | GSM | Uplink | 11:23:07.502 | SACCH | MEASUREMENT_REPORT |
| | | | | | 258. | 11:23:08.443 | | | | | 6 | | 12185. | L3SM | GSM | Downlink | 11:23:07.654 | SACCH | SYSTEM_INFORMATION_TYPE_5 |
| | | | | | 259. | 11:23:08.595 | -94 | 111 | 43 | 50000 | 1 | | 12186. | L3SM | GSM | Uplink | 11:23:07.972 | SACCH | MEASUREMENT_REPORT |
| | | | | | 260. | 11:23:09.090 | -93 | 111 | 43 | 50000 | 1 | | 12187. | L3SM | GSM | Downlink | 11:23:08.125 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 261. | 11:23:09.591 | | | | | 0 | | 12188. | L3SM | GSM | Uplink | 11:23:08.443 | SACCH | MEASUREMENT_REPORT |
| | | | | | 262. | 11:23:09.831 | -94 | 111 | 43 | 50000 | 1 | | 12189. | L3SM | GSM | Downlink | 11:23:08.595 | SACCH | SYSTEM_INFORMATION_TYPE_6 |
| | | | | | 263. | 11:23:10.061 | | | | | 3 | | 12190. | L3SM | GSM | Uplink | 11:23:08.914 | SACCH | MEASUREMENT_REPORT |
| | | | | | 264. | 11:23:10.362 | -95 | 111 | 43 | 50000 | 1 | | 12191. | L3SM | GSM | Downlink | 11:23:09.066 | SACCH | SYSTEM_INFORMATION_TYPE_5 |
| | | | | | 265. | 11:23:10.532 | | | | | 6 | | 12192. | L3SM | GSM | Uplink | 11:23:09.591 | SACCH | MEASUREMENT_REPORT |
| | | | | | 266. | 11:23:10.771 | -94 | 111 | 43 | 50000 | 1 | | 12193. | L3SM | GSM | Downlink | 11:23:09.744 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 267. | 11:23:11.003 | | | | | 7 | | 12194. | L3SM | GSM | Uplink | 11:23:10.061 | SACCH | MEASUREMENT_REPORT |
| | | | | | 268. | 11:23:11.277 | -97 | 111 | 43 | 50000 | 1 | | 12195. | L3SM | GSM | Downlink | 11:23:10.213 | SACCH | SYSTEM_INFORMATION_TYPE_6 |
| | | | | | 269. | 11:23:11.277 | | | | | 5 | | 12196. | L3SM | GSM | Uplink | 11:23:10.532 | SACCH | MEASUREMENT_REPORT |
| | | | | | 270. | 11:23:11.747 | | | | | 6 | | 12197. | L3SM | GSM | Uplink | 11:23:11.003 | SACCH | MEASUREMENT_REPORT |
| | | | | | 271. | 11:23:11.748 | -98 | 111 | 43 | 50000 | 1 | | 12198. | L3SM | GSM | Downlink | 11:23:11.155 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 272. | 11:23:12.215 | | | | | 7 | | 12199. | L3SM | GSM | Uplink | 11:23:11.277 | SACCH | MEASUREMENT_REPORT |
| | | | | | 273. | 11:23:12.367 | -97 | 111 | 43 | 50000 | 1 | | 12200. | L3SM | GSM | Downlink | 11:23:11.429 | SACCH | SYSTEM_INFORMATION_TYPE_6 |
| | | | | | 274. | 11:23:12.838 | -98 | 111 | 43 | 50000 | 1 | | 12201. | L3SM | GSM | Uplink | 11:23:11.747 | SACCH | MEASUREMENT_REPORT |

Analysis:

- This call failure event occurred on short call at 11:23:29:512 time when UE was latched with 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding" message. After that call setup has been failed.
- During the session UE was latched with ARFCN 111 and RF condition Rx lev -94 dBm is good and Rx qual 6 dB was very poor.
- As per the Analysis the call setup failure event occurred due to poor quality in the network.

Phase-2 Call Attempt Failure Analysis 1 From MS7 CWS MO

| | Time | System | Serving band | | 1. best active RSCP | Time | Ch | SC | 1. best active Ec/NO | | System | Transf. dir. | Time | Subchannel | Message name | |
|----|--------------|----------|--------------|------|---------------------|--------|--------------|-------|----------------------|-------|--------|--------------|----------|--------------|--------------|---------------------------------------|
| 1. | 11:45:20.854 | UMTS FDD | 2100 | Dro | 4371. | | 11:45:14.156 | 10690 | 7 | -5.8 | 14326. | UMTS FDD | Uplink | 11:45:08.229 | DCCH | UPLINK_DIRECT_TRANSFER |
| 2. | 11:52:36.202 | GSM | 900 | Call | 4372. | -99.8 | 11:45:14.739 | 10690 | 7 | | 14327. | UMTS FDD | Uplink | 11:45:08.229 | DCCH | TMSI_REALLOCATION_COMPLETE |
| 3. | 12:03:39.941 | UMTS FDD | 2100 | Dro | 4373. | | 11:45:14.739 | 10690 | 7 | -8.9 | 14328. | UMTS FDD | Downlink | 11:45:08.349 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 4374. | -97.9 | 11:45:15.247 | 10690 | 7 | | 14329. | UMTS FDD | Downlink | 11:45:08.349 | DCCH | CALL_PROCEEDING |
| | | | | | 4375. | | 11:45:15.247 | 10690 | 7 | -9 | 14330. | UMTS FDD | Downlink | 11:45:13.138 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 4376. | -100.6 | 11:45:15.728 | 10690 | 7 | | 14331. | UMTS FDD | Downlink | 11:45:13.138 | DCCH | AUTHENTICATION_AND_CIPHERING_REQUEST |
| | | | | | 4377. | | 11:45:15.728 | 10690 | 7 | -12.6 | 14332. | UMTS FDD | Uplink | 11:45:13.176 | DCCH | UPLINK_DIRECT_TRANSFER |
| | | | | | 4378. | -94.8 | 11:45:16.263 | 10690 | 7 | | 14333. | UMTS FDD | Uplink | 11:45:13.176 | DCCH | AUTHENTICATION_AND_CIPHERING_RESPONSE |
| | | | | | 4379. | | 11:45:16.263 | 10690 | 7 | -8 | 14334. | UMTS FDD | Downlink | 11:45:13.468 | DCCH | SECURITY_MODE_COMMAND |
| | | | | | 4380. | -91.4 | 11:45:16.739 | 10690 | 7 | | 14335. | UMTS FDD | Uplink | 11:45:13.469 | DCCH | SECURITY_MODE_COMPLETE |
| | | | | | 4381. | | 11:45:16.739 | 10690 | 7 | -5.8 | 14336. | UMTS FDD | Downlink | 11:45:13.868 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 4382. | -98.1 | 11:45:17.281 | 10690 | 7 | | 14337. | UMTS FDD | Downlink | 11:45:13.868 | DCCH | ROUTING_AREA_UPDATE_ACCEPT |
| | | | | | 4383. | | 11:45:17.281 | 10690 | 7 | -9.3 | 14338. | UMTS FDD | Uplink | 11:45:13.870 | DCCH | UPLINK_DIRECT_TRANSFER |
| | | | | | 4384. | -95.9 | 11:45:17.721 | 10690 | 7 | | 14339. | UMTS FDD | Uplink | 11:45:13.870 | DCCH | ROUTING_AREA_UPDATE_COMPLETE |
| | | | | | 4385. | | 11:45:17.721 | 10690 | 7 | -8.1 | 14340. | UMTS FDD | Uplink | 11:45:17.702 | DCCH | MEASUREMENT_REPORT |
| | | | | | 4386. | -95.2 | 11:45:18.239 | 10690 | 7 | | 14341. | UMTS FDD | Downlink | 11:45:17.828 | DCCH | ACTIVE_SET_UPDATE |
| | | | | | 4387. | | 11:45:18.239 | 10690 | 7 | -8.2 | 14342. | UMTS FDD | Uplink | 11:45:17.840 | DCCH | ACTIVE_SET_UPDATE_COMPLETE |
| | | | | | 4388. | -96.6 | 11:45:18.862 | 10690 | 7 | | 14343. | UMTS FDD | Downlink | 11:45:17.938 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 4389. | | 11:45:18.862 | 10690 | 7 | -9 | 14344. | UMTS FDD | Downlink | 11:45:19.928 | DCCH | RADIO_BEARER_SETUP |
| | | | | | 4390. | -91.3 | 11:45:19.239 | 10690 | 7 | | 14345. | UMTS FDD | Uplink | 11:45:20.171 | DCCH | RADIO_BEARER_SETUP_COMPLETE |
| | | | | | 4391. | | 11:45:19.239 | 10690 | 7 | -7.3 | 14346. | UMTS FDD | Downlink | 11:45:20.418 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 4392. | -87.8 | 11:45:20.141 | 10690 | 203 | | 14347. | UMTS FDD | Downlink | 11:45:20.458 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 4393. | | 11:45:20.141 | 10690 | 203 | -6.4 | 14348. | UMTS FDD | Downlink | 11:45:20.498 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 4394. | -96.3 | 11:45:20.418 | 10690 | 7 | | 14349. | UMTS FDD | Downlink | 11:45:20.538 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 4395. | | 11:45:20.418 | 10690 | 7 | -10.5 | 14350. | UMTS FDD | Downlink | 11:45:20.618 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 4396. | -90.9 | 11:45:21.138 | 10690 | 203 | | 14351. | UMTS FDD | Downlink | 11:45:20.618 | DCCH | DISCONNECT |
| | | | | | 4397. | | 11:45:21.138 | 10690 | 203 | -6.4 | 14352. | UMTS FDD | Uplink | 11:45:20.772 | DCCH | UPLINK_DIRECT_TRANSFER |
| | | | | | 4398. | -95.1 | 11:45:21.729 | 10690 | 203 | | 14353. | UMTS FDD | Uplink | 11:45:20.772 | DCCH | RELEASE |
| | | | | | 4399. | | 11:45:21.729 | 10690 | 203 | -9.3 | 14354. | UMTS FDD | Downlink | 11:45:20.978 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 4400. | -91.5 | 11:45:22.158 | 10690 | 203 | | 14355. | UMTS FDD | Downlink | 11:45:20.978 | DCCH | RELEASE_COMPLETE |
| | | | | | 4401. | | 11:45:22.158 | 10690 | 203 | -6.8 | 14356. | UMTS FDD | Downlink | 11:45:21.138 | DCCH | RADIO_BEARER_RELEASE |
| | | | | | 4402. | -99 | 11:45:52.439 | 10690 | 7 | | 14357. | UMTS FDD | Uplink | 11:45:21.731 | DCCH | MEASUREMENT_REPORT |
| | | | | | 4403. | | 11:45:52.439 | 10690 | 7 | -6.9 | 14358. | UMTS FDD | Uplink | 11:45:21.971 | DCCH | RADIO_BEARER_RELEASE_COMPLETE |
| | | | | | 4404. | -99 | 11:45:53.156 | 10690 | 7 | | 14359. | UMTS FDD | Downlink | 11:45:22.218 | DCCH | SIGNALLING_CONNECTION_RELEASE |
| | | | | | 4405. | | 11:45:53.156 | 10690 | 7 | -12.5 | 14360. | UMTS FDD | Uplink | 11:45:22.220 | DCCH | INITIAL_DIRECT_TRANSFER |
| | | | | | 4406. | -98 | 11:45:53.556 | 10690 | 203 | | 14361. | UMTS FDD | Uplink | 11:45:22.220 | DCCH | LOCATION_UPDATING_REQUEST |

Analysis:

- This call failure event occurred on short call at 11:45:20:854 time when UE was latched on to the 3G network.
- After sending the 'CM Service Request' message to the core network, the core network responded with a 'Call Proceeding' message. However, the call was disconnected with Cause (27): Destination out of order.
- During the failure, UE was latched with PSC 7 and RF condition RSCP -96.3 dBm good but Ec/No -10.5 dB are very poor.
- Need to check MT.

Downlink

DISCONNECT 3GPP TS 24.008 ver 15.4.0 Rel 15 (9.3.7.1)

M Protocol Discriminator (hex data: 3)
(0x3) Call control (call related SS message)

M Transaction Identifier (hex data: 8)
TI flag: 1 (the message is sent to the side that originates the TI)
TI value: 0

M Message Type (hex data: 25)
Message number: 37

M Cause (hex data: 02e09b)
Coding standard: Standard defined for the GSM PLMNs
Location: user

Cause (27): Destination out of order

Phase-2 Call Attempt Failure Analysis 1 From MS8 CWS MT

| | Time | Band | Band (MHz) | Ch | PCI | RSRP | SNR | ▲ | Event ID | System | Transf. dir. | Time | Subchannel | Message name | |
|-------|--------------|------|------------|------|-----|--------|------|---|----------|--------|--------------|----------|--------------|--------------|--------------------------------------|
| 7681. | 11:45:02.574 | | | | | | 3.2 | | 14344. | RRC | LTE FDD | Downlink | 11:44:39.631 | DCCH | RRCCONNECTIONRECONFIGURATION |
| 7682. | 11:45:04.161 | B3 | 1800 | 1849 | 273 | -105.6 | | | 14345. | RRC | LTE FDD | Uplink | 11:44:39.637 | DCCH | RRCCONNECTIONRECONFIGURATIONCOMPLETE |
| 7683. | 11:45:04.161 | | | | | | 2.5 | | 14346. | RRC | LTE FDD | Downlink | 11:44:39.650 | DCCH | RRCCONNECTIONRECONFIGURATION |
| 7684. | 11:45:05.128 | B3 | 1800 | 1849 | 273 | -103.7 | | | 14347. | RRC | LTE FDD | Uplink | 11:44:39.651 | DCCH | RRCCONNECTIONRECONFIGURATIONCOMPLETE |
| 7685. | 11:45:05.128 | | | | | | 3.9 | | 14348. | RRC | LTE FDD | Downlink | 11:44:39.666 | DCCH | DLINFORMATIONTRANSFER |
| 7686. | 11:45:05.525 | B3 | 1800 | 1849 | 273 | -103.7 | | | 14349. | L3SM | LTE FDD | Downlink | 11:44:39.666 | | MODIFY_EPS_BEARER_CONTEXT_REQUEST |
| 7687. | 11:45:06.643 | B3 | 1800 | 1849 | 273 | -106.8 | | | 14350. | L3SM | LTE FDD | Uplink | 11:44:39.668 | | MODIFY_EPS_BEARER_CONTEXT_ACCEPT |
| 7688. | 11:45:06.643 | | | | | | 0 | | 14351. | RRC | LTE FDD | Uplink | 11:44:39.668 | DCCH | ULINFORMATIONTRANSFER |
| 7689. | 11:45:07.769 | B3 | 1800 | 1849 | 273 | -103.3 | | | 14352. | RRC | LTE FDD | Uplink | 11:44:40.312 | DCCH | MEASUREMENTREPORT |
| 7690. | 11:45:07.769 | | | | | | 6.2 | | 14353. | RRC | LTE FDD | Uplink | 11:44:40.312 | DCCH | MEASUREMENTREPORT |
| 7691. | 11:45:09.161 | B3 | 1800 | 1849 | 273 | -107.9 | | | 14354. | RRC | LTE FDD | Downlink | 11:44:40.806 | PCCH | PAGING |
| 7692. | 11:45:09.161 | | | | | | -3.1 | | 14355. | RRC | LTE FDD | Downlink | 11:44:43.366 | PCCH | PAGING |
| 7693. | 11:45:10.543 | B3 | 1800 | 1849 | 273 | -106.8 | | | 14356. | RRC | LTE FDD | Downlink | 11:44:44.646 | PCCH | PAGING |
| 7694. | 11:45:10.543 | | | | | | -3.1 | | 14357. | RRC | LTE FDD | Downlink | 11:44:45.926 | PCCH | PAGING |
| 7695. | 11:45:11.550 | B3 | 1800 | 1849 | 273 | -110.9 | | | 14358. | RRC | LTE FDD | Downlink | 11:44:47.206 | PCCH | PAGING |
| 7696. | 11:45:11.550 | | | | | | -4.7 | | 14359. | RRC | LTE FDD | Downlink | 11:44:51.046 | PCCH | PAGING |
| 7697. | 11:45:12.159 | B3 | 1800 | 1849 | 273 | -110.9 | | | 14360. | RRC | LTE FDD | Downlink | 11:44:52.326 | PCCH | PAGING |
| 7698. | 11:45:13.159 | B3 | 1800 | 1849 | 273 | -108 | | | 14361. | RRC | LTE FDD | Downlink | 11:44:56.166 | PCCH | PAGING |
| 7699. | 11:45:13.159 | | | | | | -2.5 | | 14362. | RRC | LTE FDD | Downlink | 11:44:58.726 | PCCH | PAGING |
| 7700. | 11:45:14.179 | B3 | 1800 | 1849 | 273 | -109.6 | | | 14363. | RRC | LTE FDD | Downlink | 11:44:59.591 | DCCH | RRCCONNECTIONRELEASE |
| 7701. | 11:45:14.179 | | | | | | -1.7 | | 14364. | RRC | LTE FDD | Downlink | 11:45:00.006 | PCCH | PAGING |
| 7702. | 11:45:15.437 | B3 | 1800 | 1849 | 273 | -110.6 | | | 14365. | RRC | LTE FDD | Downlink | 11:45:07.688 | PCCH | PAGING |
| 7703. | 11:45:15.437 | | | | | | -5 | | 14366. | RRC | LTE FDD | Downlink | 11:45:20.612 | BCCH-SCH | SYSTEMINFORMATIONBLOCKTYPE1 |
| 7704. | 11:45:16.751 | B3 | 1800 | 1849 | 273 | -112.8 | | | 14367. | RRC | LTE FDD | Downlink | 11:45:20.649 | BCCH-SCH | SYSTEMINFORMATION - SIB5 |
| 7705. | 11:45:16.751 | | | | | | -6.3 | | 14368. | RRC | LTE FDD | Downlink | 11:45:20.769 | BCCH-SCH | SYSTEMINFORMATION - SIB2,SIB3 |
| 7706. | 11:45:17.161 | B3 | 1800 | 1849 | 273 | -112.8 | | | 14369. | RRC | LTE FDD | Downlink | 11:45:21.252 | BCCH-SCH | SYSTEMINFORMATIONBLOCKTYPE1 |
| 7707. | 11:45:18.161 | B3 | 1800 | 1849 | 273 | -109.9 | | | 14370. | RRC | LTE FDD | Downlink | 11:45:25.577 | PCCH | PAGING |
| 7708. | 11:45:18.161 | | | | | | -5.5 | | 14371. | RRC | LTE FDD | Downlink | 11:45:26.857 | PCCH | PAGING |
| 7709. | 11:45:19.236 | B3 | 1800 | 1849 | 273 | -109.9 | | | 14372. | RRC | LTE FDD | Downlink | 11:45:29.417 | PCCH | PAGING |
| 7710. | 11:45:19.236 | | | | | | -5.9 | | 14373. | RRC | LTE FDD | Downlink | 11:45:30.697 | PCCH | PAGING |
| 7711. | 11:45:19.268 | B3 | 1800 | 1849 | 273 | -109.9 | | | 14374. | RRC | LTE FDD | Downlink | 11:45:31.977 | PCCH | PAGING |
| 7712. | 11:45:20.561 | B3 | 1800 | 1849 | 273 | -112.3 | | | 14375. | RRC | LTE FDD | Downlink | 11:45:34.537 | PCCH | PAGING |
| 7713. | 11:45:20.561 | | | | | | -7.9 | | 14376. | RRC | LTE FDD | Downlink | 11:45:35.817 | PCCH | PAGING |
| 7714. | 11:45:20.797 | B3 | 1800 | 1849 | 104 | -100.8 | | | 14377. | RRC | LTE FDD | Downlink | 11:45:38.377 | PCCH | PAGING |
| 7715. | 11:45:22.323 | B3 | 1800 | 1849 | 104 | -101.6 | | | 14378. | RRC | LTE FDD | Downlink | 11:45:39.656 | PCCH | PAGING |
| 7716. | 11:45:22.323 | | | | | | 4.6 | | 14379. | RRC | LTE FDD | Downlink | 11:45:41.083 | BCCH-SCH | SYSTEMINFORMATIONBLOCKTYPE1 |
| 7717. | 11:45:23.530 | B3 | 1800 | 1849 | 104 | -103.7 | | | 14380. | RRC | LTE FDD | Downlink | 11:45:41.120 | BCCH-SCH | SYSTEMINFORMATION - SIB2,SIB3 |
| 7718. | 11:45:23.530 | | | | | | 3.1 | ▼ | 14381. | RRC | LTE FDD | Downlink | 11:45:41.159 | BCCH-SCH | SYSTEMINFORMATION - SIB5 |

- Analysis:**
- On MT End, During the setup fail, UE was latched with PCI 104 and RF condition RSRP -100.8 dBm is and SINR -7.9 which is poor.
 - Call failed at the MT end due to poor network coverage. The terminating device experienced low signal strength, leading to call failure.

Phase-2 Call Attempt Failure Analysis 2 From MS7 CWS MO

| | Time | System | Serving band | | Time | RxLev sub | ARFCN | BSIC | LAC | RAC | RXQ sub | | System | Transf. dir. | Time | Subchannel | Message name | |
|----|--------------|----------|--------------|-----|------|--------------|-------|------|-----|-----|---------|--|--------|--------------|----------|--------------|--------------|---------------------------|
| 1. | 11:45:20.854 | UMTS FDD | 2100 | Dro | 797. | 11:52:24.117 | | | | | 7 | | 16052. | GSM | Downlink | 11:52:22.838 | SACCH | MEASUREMENT_INFORMATION |
| 2. | 11:52:36.202 | GSM | 900 | Cal | 798. | 11:52:24.338 | -85 | 5 | 38 | 1 | | | 16053. | GSM | Uplink | 11:52:23.175 | SACCH | MEASUREMENT_REPORT |
| 3. | 12:03:39.941 | UMTS FDD | 2100 | Dro | 799. | 11:52:24.588 | | | | | 6 | | 16054. | GSM | Downlink | 11:52:23.309 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 800. | 11:52:25.058 | | | | | 1 | | 16055. | GSM | Uplink | 11:52:23.646 | SACCH | MEASUREMENT_REPORT |
| | | | | | 801. | 11:52:25.094 | -85 | 5 | 38 | 1 | | | 16056. | GSM | Downlink | 11:52:23.780 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 802. | 11:52:25.529 | | | | | 0 | | 16057. | GSM | Uplink | 11:52:24.117 | SACCH | MEASUREMENT_REPORT |
| | | | | | 803. | 11:52:25.621 | -83 | 5 | 38 | 1 | | | 16058. | GSM | Downlink | 11:52:24.251 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 804. | 11:52:26.000 | | | | | 0 | | 16059. | GSM | Uplink | 11:52:24.588 | SACCH | MEASUREMENT_REPORT |
| | | | | | 805. | 11:52:26.153 | -84 | 5 | 38 | 1 | | | 16060. | GSM | Downlink | 11:52:24.721 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 806. | 11:52:26.471 | | | | | 7 | | 16061. | GSM | Uplink | 11:52:25.058 | SACCH | MEASUREMENT_REPORT |
| | | | | | 807. | 11:52:26.604 | -94 | 5 | 38 | 1 | | | 16062. | GSM | Downlink | 11:52:25.192 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 808. | 11:52:27.154 | -94 | 5 | 38 | 1 | | | 16063. | GSM | Uplink | 11:52:25.529 | SACCH | MEASUREMENT_REPORT |
| | | | | | 809. | 11:52:27.633 | -95 | 5 | 38 | 1 | | | 16064. | GSM | Downlink | 11:52:25.663 | SACCH | MEASUREMENT_INFORMATION |
| | | | | | 810. | 11:52:28.155 | -95 | 5 | 38 | 1 | | | 16065. | GSM | Downlink | 11:52:25.986 | DCCH | CALL_PROCEEDING |
| | | | | | 811. | 11:52:28.487 | -95 | 5 | 38 | 1 | | | 16066. | GSM | Uplink | 11:52:26.000 | SACCH | MEASUREMENT_REPORT |
| | | | | | 812. | 11:52:29.295 | -90 | 5 | 38 | 1 | | | 16067. | GSM | Uplink | 11:52:26.471 | SACCH | MEASUREMENT_REPORT |
| | | | | | 813. | 11:52:29.766 | -94 | 5 | 38 | 1 | | | 16068. | GSM | Uplink | 11:52:26.942 | SACCH | MEASUREMENT_REPORT |
| | | | | | 814. | 11:52:30.237 | -93 | 5 | 38 | 1 | | | 16069. | GSM | Uplink | 11:52:27.412 | SACCH | MEASUREMENT_REPORT |
| | | | | | 815. | 11:52:31.400 | -92 | 5 | 38 | 1 | | | 16070. | GSM | Uplink | 11:52:27.883 | SACCH | MEASUREMENT_REPORT |
| | | | | | 816. | 11:52:31.783 | -95 | 5 | 38 | 1 | | | 16071. | GSM | Uplink | 11:52:28.354 | SACCH | MEASUREMENT_REPORT |
| | | | | | 817. | 11:52:32.120 | | | | | 6 | | 16072. | GSM | Uplink | 11:52:28.825 | SACCH | MEASUREMENT_REPORT |
| | | | | | 818. | 11:52:32.341 | -95 | 5 | 38 | 1 | | | 16073. | GSM | Uplink | 11:52:29.295 | SACCH | MEASUREMENT_REPORT |
| | | | | | 819. | 11:52:32.591 | | | | | 7 | | 16074. | GSM | Uplink | 11:52:29.766 | SACCH | MEASUREMENT_REPORT |
| | | | | | 820. | 11:52:32.724 | -96 | 5 | 38 | 1 | | | 16075. | GSM | Uplink | 11:52:30.237 | SACCH | MEASUREMENT_REPORT |
| | | | | | 821. | 11:52:33.154 | -95 | 5 | 38 | 1 | | | 16076. | GSM | Uplink | 11:52:30.708 | SACCH | MEASUREMENT_REPORT |
| | | | | | 822. | 11:52:33.666 | -94 | 5 | 38 | 1 | | | 16077. | GSM | Uplink | 11:52:31.178 | SACCH | MEASUREMENT_REPORT |
| | | | | | 823. | 11:52:34.474 | -93 | 5 | 38 | 1 | | | 16078. | GSM | Uplink | 11:52:31.649 | SACCH | MEASUREMENT_REPORT |
| | | | | | 824. | 11:52:35.098 | -94 | 5 | 38 | 1 | | | 16079. | GSM | Uplink | 11:52:32.120 | SACCH | MEASUREMENT_REPORT |
| | | | | | 825. | 11:52:35.098 | | | | | | | 16080. | GSM | Uplink | 11:52:32.591 | SACCH | MEASUREMENT_REPORT |
| | | | | | 826. | 11:52:37.926 | -94 | 5 | 38 | 1 | 0 | | 16081. | GSM | Uplink | 11:52:33.061 | SACCH | MEASUREMENT_REPORT |
| | | | | | 827. | 11:52:38.253 | -61 | 20 | 30 | 1 | 0 | | 16082. | GSM | Uplink | 11:52:33.532 | SACCH | MEASUREMENT_REPORT |
| | | | | | 828. | 11:52:38.923 | -61 | 20 | 30 | 1 | 0 | | 16083. | GSM | Uplink | 11:52:34.003 | SACCH | MEASUREMENT_REPORT |
| | | | | | 829. | 11:52:39.305 | -60 | 20 | 30 | 1 | 0 | | 16084. | GSM | Uplink | 11:52:34.474 | SACCH | MEASUREMENT_REPORT |
| | | | | | 830. | 11:52:39.997 | -60 | 20 | 30 | 1 | 0 | | 16085. | GSM | Uplink | 11:52:34.944 | SACCH | MEASUREMENT_REPORT |
| | | | | | 831. | 11:52:40.413 | -61 | 20 | 30 | 1 | 0 | | 16086. | GSM | Downlink | 11:52:35.793 | BCCH | SYSTEM_INFORMATION_TYPE_3 |
| | | | | | 832. | 11:52:41.095 | -63 | 20 | 30 | 1 | 0 | | 16087. | GSM | Downlink | 11:52:36.029 | BCCH | SYSTEM_INFORMATION_TYPE_4 |
| | | | | | 833. | 11:52:41.156 | -63 | 20 | 30 | 1 | 0 | | 16088. | GSM | Downlink | 11:52:36.084 | CCCH | PAGING_REQUEST_TYPE_1 |

Analysis:

- This call failure event occurred on short call at 11:52:36:202 time when UE was latched on to the 2G network.
- After sending "CM Service Request" message to core network, then core network responds with "Call Proceeding" message. After that call setup has been failed.
- During the session UE was latched with ARFCN 5 and RF condition Rx lev -94 dBm is good and Rx qual 7 dB was very poor.
- As per the Analysis the call setup failure event occurred due to poor quality in the network.

Phase-2 Call Attempt Failure Analysis 3 From MS7 CWS MO

| | Time | System | Serving band | | 1. best active RSCP | Time | Ch | SC | 1. best active Ec/NO | | System | Transf. dir. | Time | Subchannel | Message name | |
|----|--------------|----------|--------------|------|---------------------|--------------|-------|-----|----------------------|--|--------|--------------|----------|--------------|--------------|-------------------------------|
| 1. | 11:45:20.854 | UMTS FDD | 2100 | Dro | 5698. -83.6 | 12:03:34.777 | 10690 | 38 | | | 18569. | UMTS FDD | Uplink | 12:03:32.603 | DCCH | SECURITY_MODE_COMPLETE |
| 2. | 11:52:36.202 | GSM | 900 | Call | 5699. | 12:03:34.777 | 10690 | 36 | -9.5 | | 18570. | UMTS FDD | Downlink | 12:03:32.972 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| 3. | 12:03:39.941 | UMTS FDD | 2100 | Dro | 5700. -86 | 12:03:35.417 | 10690 | 203 | | | 18571. | UMTS FDD | Downlink | 12:03:32.972 | DCCH | ROUTING_AREA_UPDATE_ACCEPT |
| | | | | | 5701. | 12:03:35.417 | 10690 | 203 | -13.8 | | 18572. | UMTS FDD | Uplink | 12:03:32.974 | DCCH | UPLINK_DIRECT_TRANSFER |
| | | | | | 5702. -86 | 12:03:35.832 | 10690 | 203 | | | 18573. | UMTS FDD | Uplink | 12:03:32.974 | DCCH | ROUTING_AREA_UPDATE_COMPLETE |
| | | | | | 5703. | 12:03:35.832 | 10690 | 36 | -11.5 | | 18574. | UMTS FDD | Downlink | 12:03:33.172 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 5704. -78.8 | 12:03:36.413 | 10690 | 203 | | | 18575. | UMTS FDD | Uplink | 12:03:34.526 | DCCH | MEASUREMENT_REPORT |
| | | | | | 5705. | 12:03:36.413 | 10690 | 203 | -7.1 | | 18576. | UMTS FDD | Uplink | 12:03:34.634 | DCCH | MEASUREMENT_REPORT |
| | | | | | 5706. -82.7 | 12:03:36.960 | 10690 | 203 | | | 18577. | UMTS FDD | Downlink | 12:03:34.772 | DCCH | ACTIVE_SET_UPDATE |
| | | | | | 5707. | 12:03:36.960 | 10690 | 203 | -7 | | 18578. | UMTS FDD | Uplink | 12:03:34.784 | DCCH | ACTIVE_SET_UPDATE_COMPLETE |
| | | | | | 5708. -91.1 | 12:03:37.494 | 10690 | 203 | | | 18579. | UMTS FDD | Uplink | 12:03:35.256 | DCCH | MEASUREMENT_REPORT |
| | | | | | 5709. | 12:03:37.494 | 10690 | 203 | -13 | | 18580. | UMTS FDD | Downlink | 12:03:35.412 | DCCH | ACTIVE_SET_UPDATE |
| | | | | | 5710. -86.9 | 12:03:37.913 | 10690 | 38 | | | 18581. | UMTS FDD | Uplink | 12:03:35.424 | DCCH | ACTIVE_SET_UPDATE_COMPLETE |
| | | | | | 5711. | 12:03:37.913 | 10690 | 38 | -10.7 | | 18582. | UMTS FDD | Downlink | 12:03:36.222 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 5712. -82.5 | 12:03:38.413 | 10690 | 203 | | | 18583. | UMTS FDD | Uplink | 12:03:36.227 | DCCH | MEASUREMENT_REPORT |
| | | | | | 5713. | 12:03:38.413 | 10690 | 203 | -9.5 | | 18584. | UMTS FDD | Downlink | 12:03:36.342 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 5714. -76.6 | 12:03:39.103 | 10690 | 38 | | | 18585. | UMTS FDD | Uplink | 12:03:36.907 | DCCH | MEASUREMENT_REPORT |
| | | | | | 5715. | 12:03:39.103 | 10690 | 38 | -5.9 | | 18586. | UMTS FDD | Uplink | 12:03:38.166 | DCCH | MEASUREMENT_REPORT |
| | | | | | 5716. -79.8 | 12:03:39.355 | 10690 | 203 | | | 18587. | UMTS FDD | Downlink | 12:03:39.092 | DCCH | RADIO_BEARER_SETUP |
| | | | | | 5717. | 12:03:39.355 | 10690 | 203 | -6.5 | | 18588. | UMTS FDD | Uplink | 12:03:39.355 | DCCH | RADIO_BEARER_SETUP_COMPLETE |
| | | | | | 5718. -81.8 | 12:03:40.146 | 10690 | 203 | | | 18589. | UMTS FDD | Downlink | 12:03:39.642 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 5719. | 12:03:40.146 | 10690 | 203 | -8 | | 18590. | UMTS FDD | Downlink | 12:03:39.682 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 5720. -79.7 | 12:03:40.596 | 10690 | 38 | | | 18591. | UMTS FDD | Downlink | 12:03:39.722 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 5721. | 12:03:40.596 | 10690 | 38 | -5.4 | | 18592. | UMTS FDD | Downlink | 12:03:39.762 | DCCH | MEASUREMENT_CONTROL |
| | | | | | 5722. -75.2 | 12:03:41.109 | 10690 | 36 | | | 18593. | UMTS FDD | Downlink | 12:03:39.842 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 5723. | 12:03:41.109 | 10690 | 38 | -5.3 | | 18594. | UMTS FDD | Downlink | 12:03:39.842 | DCCH | DISCONNECT |
| | | | | | 5724. -94.6 | 12:03:41.808 | 10690 | 219 | | | 18595. | UMTS FDD | Uplink | 12:03:39.941 | DCCH | UPLINK_DIRECT_TRANSFER |
| | | | | | 5725. | 12:03:41.808 | 10690 | 219 | -21.1 | | 18596. | UMTS FDD | Uplink | 12:03:39.941 | DCCH | RELEASE |
| | | | | | 5726. -103 | 12:04:11.771 | 10690 | 203 | | | 18597. | UMTS FDD | Downlink | 12:03:40.322 | DCCH | RADIO_BEARER_RELEASE |
| | | | | | 5727. | 12:04:11.771 | 10690 | 203 | -8.4 | | 18598. | UMTS FDD | Downlink | 12:03:40.362 | DCCH | DOWNLINK_DIRECT_TRANSFER |
| | | | | | 5728. -103 | 12:04:12.163 | 10690 | 203 | | | 18599. | UMTS FDD | Downlink | 12:03:40.362 | DCCH | RELEASE_COMPLETE |
| | | | | | 5729. | 12:04:12.163 | 10690 | 203 | -6.4 | | 18600. | UMTS FDD | Uplink | 12:03:40.767 | DCCH | MEASUREMENT_REPORT |
| | | | | | 5730. -103 | 12:04:12.717 | 10690 | 203 | | | 18601. | UMTS FDD | Uplink | 12:03:40.946 | DCCH | MEASUREMENT_REPORT |
| | | | | | 5731. | 12:04:12.717 | 10690 | 203 | -6.2 | | 18602. | UMTS FDD | Uplink | 12:03:40.977 | DCCH | MEASUREMENT_REPORT |
| | | | | | 5732. -103 | 12:04:13.161 | 10690 | 203 | | | 18603. | UMTS FDD | Uplink | 12:03:41.057 | DCCH | MEASUREMENT_REPORT |
| | | | | | 5733. | 12:04:13.161 | 10690 | 203 | -6.8 | | 18604. | UMTS FDD | Uplink | 12:03:41.115 | DCCH | RADIO_BEARER_RELEASE_COMPLETE |

- Analysis:**
- This call failure event occurred on short call at 12:03:39:941 time when UE was latched on to the 3G network.
 - After sending the 'CM Service Request' message to the core network, the core network responded with a 'Call Proceeding' message. However, the call was disconnected with Cause (27): Destination out of order.
 - During the failure, UE was latched with PSC 203 and RF condition RSCP -79.8 dBm good but Ec/No -8.5 dB are very good.
 - Need to check MT.

Downlink

DISCONNECT 3GPP TS 24.008 ver 15.4.0 Rel 15 (9.3.7.1)

M Protocol Discriminator (hex data: 3)
(0x3) Call control (call related SS message)

M Transaction Identifier (hex data: 8)
TI flag: 1 (the message is sent to the side that originates the TI)
TI value: 0

M Message Type (hex data: 25)
Message number: 37

M Cause (hex data: 02e09b)
Coding standard: Standard defined for the GSM PLMNs
Location: user
Cause (27): Destination out of order

Phase-2 Call Attempt Failure Analysis 3 From MS8 CWS MT

| | Time | RxLev sub | ARFCN | BSIC | LAC | RAC | RXQ sul ▲ | | Event ID | System | Transf. dir. | Time | Subchannel | Message name | |
|------|--------------|-----------|-------|------|-----|-----|-----------|--|----------|--------|--------------|----------|--------------|--------------|---------------------------------|
| 434. | 12:03:31.353 | -76 | 20 | 30 | 1 | | | | 18601. | L3SM | GSM | Downlink | 12:03:32.206 | SACCH | MEASUREMENT_INFORMATION |
| 435. | 12:03:32.091 | | | | | | 1 | | 18602. | L3SM | GSM | Uplink | 12:03:32.562 | SACCH | MEASUREMENT_REPORT |
| 436. | 12:03:32.162 | -82 | 20 | 30 | 1 | | | | 18603. | L3SM | GSM | Downlink | 12:03:32.677 | SACCH | MEASUREMENT_INFORMATION |
| 437. | 12:03:32.562 | | | | | | 7 | | 18604. | L3SM | GSM | Uplink | 12:03:33.032 | SACCH | MEASUREMENT_REPORT |
| 438. | 12:03:32.677 | -87 | 20 | 30 | 1 | | | | 18605. | L3SM | GSM | Downlink | 12:03:33.148 | SACCH | MEASUREMENT_INFORMATION |
| 439. | 12:03:33.032 | | | | | | 0 | | 18606. | L3SM | GSM | Uplink | 12:03:33.503 | SACCH | MEASUREMENT_REPORT |
| 440. | 12:03:33.228 | -88 | 20 | 30 | 1 | | | | 18607. | L3SM | GSM | Uplink | 12:03:33.974 | SACCH | MEASUREMENT_REPORT |
| 441. | 12:03:33.295 | -88 | 20 | 30 | 1 | | | | 18608. | L3SM | GSM | Uplink | 12:03:34.445 | SACCH | MEASUREMENT_REPORT |
| 442. | 12:03:33.503 | | | | | | 4 | | 18609. | L3SM | GSM | Downlink | 12:03:34.560 | SACCH | MEASUREMENT_INFORMATION |
| 443. | 12:03:33.974 | | | | | | 7 | | 18610. | L3SM | GSM | Uplink | 12:03:34.916 | SACCH | MEASUREMENT_REPORT |
| 444. | 12:03:34.101 | -89 | 20 | 30 | 1 | | | | 18611. | L3SM | GSM | Uplink | 12:03:35.386 | SACCH | MEASUREMENT_REPORT |
| 445. | 12:03:34.560 | -90 | 20 | 30 | 1 | | | | 18612. | L3SM | GSM | Uplink | 12:03:35.857 | SACCH | MEASUREMENT_REPORT |
| 446. | 12:03:34.916 | | | | | | 6 | | 18613. | L3SM | GSM | Uplink | 12:03:36.328 | SACCH | MEASUREMENT_REPORT |
| 447. | 12:03:35.114 | -88 | 20 | 30 | 1 | | | | 18614. | L3SM | GSM | Uplink | 12:03:36.798 | SACCH | MEASUREMENT_REPORT |
| 448. | 12:03:35.386 | | | | | | 7 | | 18615. | L3SM | GSM | Uplink | 12:03:37.269 | SACCH | MEASUREMENT_REPORT |
| 449. | 12:03:35.857 | -88 | 20 | 30 | 1 | | | | 18616. | L3SM | GSM | Uplink | 12:03:37.740 | SACCH | MEASUREMENT_REPORT |
| 450. | 12:03:36.328 | -89 | 20 | 30 | 1 | | | | 18617. | L3SM | GSM | Uplink | 12:03:38.211 | SACCH | MEASUREMENT_REPORT |
| 451. | 12:03:37.269 | -87 | 20 | 30 | 1 | | | | 18618. | L3SM | GSM | Downlink | 12:03:38.414 | DCCH | IDENTITY_REQUEST |
| 452. | 12:03:37.740 | -87 | 20 | 30 | 1 | | | | 18619. | L3SM | GSM | Uplink | 12:03:38.414 | DCCH | IDENTITY_RESPONSE |
| 453. | 12:03:38.326 | -90 | 20 | 30 | 1 | | | | 18620. | L3SM | GSM | Uplink | 12:03:38.682 | SACCH | MEASUREMENT_REPORT |
| 454. | 12:03:38.808 | -88 | 20 | 30 | 1 | | | | 18621. | L3SM | GSM | Uplink | 12:03:39.152 | SACCH | MEASUREMENT_REPORT |
| 455. | 12:03:39.355 | -89 | 20 | 30 | 1 | | | | 18622. | L3SM | GSM | Uplink | 12:03:39.623 | SACCH | MEASUREMENT_REPORT |
| 456. | 12:03:40.162 | -91 | 20 | 30 | 1 | | | | 18623. | L3SM | GSM | Uplink | 12:03:40.094 | SACCH | MEASUREMENT_REPORT |
| 457. | 12:03:40.680 | -91 | 20 | 30 | 1 | | | | 18624. | L3SM | GSM | Uplink | 12:03:40.565 | SACCH | MEASUREMENT_REPORT |
| 458. | 12:03:41.506 | -91 | 20 | 30 | 1 | | | | 18625. | L3SM | GSM | Uplink | 12:03:41.036 | SACCH | MEASUREMENT_REPORT |
| 459. | 12:03:42.164 | -94 | 20 | 30 | 1 | | | | 18626. | L3SM | GSM | Uplink | 12:03:41.506 | SACCH | MEASUREMENT_REPORT |
| 460. | 12:03:42.563 | -93 | 20 | 30 | 1 | | | | 18627. | L3SM | GSM | Uplink | 12:03:41.977 | SACCH | MEASUREMENT_REPORT |
| 461. | 12:03:43.163 | -93 | 20 | 30 | 1 | | | | 18628. | L3SM | GSM | Uplink | 12:03:42.448 | SACCH | MEASUREMENT_REPORT |
| 462. | 12:03:43.504 | -93 | 20 | 30 | 1 | | | | 18629. | L3SM | GSM | Uplink | 12:03:42.918 | SACCH | MEASUREMENT_REPORT |
| 463. | 12:03:44.163 | -93 | 20 | 30 | 1 | | | | 18630. | L3SM | GSM | Uplink | 12:03:43.389 | SACCH | MEASUREMENT_REPORT |
| 464. | 12:03:44.163 | | | | | | | | 18631. | L3SM | GSM | Uplink | 12:03:43.860 | SACCH | MEASUREMENT_REPORT |
| 465. | 12:03:47.299 | -48 | 17 | 25 | 1 | 0 | | | 18632. | L3SM | GSM | Downlink | 12:03:44.348 | BCCH | SYSTEM_INFORMATION_TYPE_3 |
| 466. | 12:03:47.299 | | | | | | 0 | | 18633. | L3SM | GSM | Downlink | 12:03:44.907 | BCCH | SYSTEM_INFORMATION_TYPE_3 |
| 467. | 12:03:47.770 | -50 | 17 | 25 | 1 | 0 | | | 18634. | L3SM | GSM | Downlink | 12:03:45.054 | BCCH | SYSTEM_INFORMATION_TYPE_3 |
| 468. | 12:03:48.241 | -51 | 17 | 25 | 1 | 0 | | | 18635. | L3SM | GSM | Downlink | 12:03:45.375 | BCCH | SYSTEM_INFORMATION_TYPE_13 |
| 469. | 12:03:48.808 | -55 | 17 | 25 | 1 | 0 | | | 18636. | L3SM | GSM | Downlink | 12:03:45.611 | BCCH | SYSTEM_INFORMATION_TYPE_2QUATER |

Analysis:

- On MT End, During the setup fail, UE was latched with ARFCN 20 and RF condition Rxlev -89 dBm is good and Rxqual 7 which is poor.
- As per the Analysis the call setup failure event occurred due to poor quality in the network.

Call Drop Analysis 1 From MS9 Airtel MO

| | Time | System | Serving band | Call type | Cal | Time | RxLev sub | ARFCN | BSIC | LAC | RAC | RXQ sub | Event ID | System | Transf. dir. | Time | Subchannel | Message name | Ms | |
|----|--------------|--------|--------------|------------|------|------|-----------|-------|------|-------|-----|---------|----------|--------|--------------|----------|--------------|--------------|---------------------------|--|
| 1. | 11:06:23.274 | GSM | 900 | Voice call | Orig | 359. | | | | | | 2 | 2752. | L3SM | GSM | Uplink | 11:05:23.317 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 360. | -91 | 96 | | 50000 | 1 | | 2753. | L3SM | GSM | Downlink | 11:05:23.751 | SACCH | MEASUREMENT_INFORMATION | |
| | | | | | | 361. | | | | | | 4 | 2754. | L3SM | GSM | Uplink | 11:05:23.797 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 362. | -90 | 96 | | 50000 | 1 | | 2755. | L3SM | GSM | Downlink | 11:05:24.231 | SACCH | SYSTEM_INFORMATION_TYPE_6 | |
| | | | | | | 363. | | | | | | 6 | 2756. | L3SM | GSM | Uplink | 11:05:24.277 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 364. | -93 | 96 | | 50000 | 1 | | 2757. | L3SM | GSM | Downlink | 11:05:24.711 | SACCH | SYSTEM_INFORMATION_TYPE_5 | |
| | | | | | | 365. | | | | | | 4 | 2758. | L3SM | GSM | Uplink | 11:05:24.757 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 366. | -93 | 96 | | 50000 | 1 | | 2759. | L3SM | GSM | Downlink | 11:05:25.191 | SACCH | MEASUREMENT_INFORMATION | |
| | | | | | | 367. | | | | | | 5 | 2760. | L3SM | GSM | Uplink | 11:05:25.237 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 368. | -95 | 96 | | 50000 | 1 | | 2761. | L3SM | GSM | Downlink | 11:05:25.671 | SACCH | SYSTEM_INFORMATION_TYPE_6 | |
| | | | | | | 369. | | | | | | 4 | 2762. | L3SM | GSM | Uplink | 11:05:25.717 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 370. | -91 | 96 | | 50000 | 1 | | 2763. | L3SM | GSM | Downlink | 11:05:26.151 | SACCH | SYSTEM_INFORMATION_TYPE_5 | |
| | | | | | | 371. | | | | | | 4 | 2764. | L3SM | GSM | Uplink | 11:05:26.197 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 372. | -89 | 96 | | 50000 | 1 | | 2765. | L3SM | GSM | Downlink | 11:05:26.631 | SACCH | MEASUREMENT_INFORMATION | |
| | | | | | | 373. | | | | | | 1 | 2766. | L3SM | GSM | Uplink | 11:05:26.677 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 374. | -90 | 96 | | 50000 | 1 | | 2767. | L3SM | GSM | Downlink | 11:05:27.111 | SACCH | SYSTEM_INFORMATION_TYPE_6 | |
| | | | | | | 375. | | | | | | 3 | 2768. | L3SM | GSM | Uplink | 11:05:27.157 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 376. | -81 | 96 | | 50000 | 1 | | 2769. | L3SM | GSM | Downlink | 11:05:27.591 | SACCH | SYSTEM_INFORMATION_TYPE_5 | |
| | | | | | | 377. | | | | | | 0 | 2770. | L3SM | GSM | Uplink | 11:05:27.637 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 378. | -88 | 96 | | 50000 | 1 | | 2771. | L3SM | GSM | Downlink | 11:05:28.071 | SACCH | MEASUREMENT_INFORMATION | |
| | | | | | | 379. | | | | | | 3 | 2772. | L3SM | GSM | Uplink | 11:05:28.117 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 380. | -93 | 96 | | 50000 | 1 | | 2773. | L3SM | GSM | Downlink | 11:05:28.551 | SACCH | SYSTEM_INFORMATION_TYPE_6 | |
| | | | | | | 381. | | | | | | 6 | 2774. | L3SM | GSM | Uplink | 11:05:28.597 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 382. | -92 | 96 | | 50000 | 1 | | 2775. | L3SM | GSM | Downlink | 11:05:29.031 | SACCH | SYSTEM_INFORMATION_TYPE_5 | |
| | | | | | | 383. | | | | | | 4 | 2776. | L3SM | GSM | Uplink | 11:05:29.077 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 384. | -91 | 96 | | 50000 | 1 | | 2777. | L3SM | GSM | Downlink | 11:05:29.511 | SACCH | MEASUREMENT_INFORMATION | |
| | | | | | | 385. | | | | | | 6 | 2778. | L3SM | GSM | Uplink | 11:05:29.557 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 386. | -90 | 96 | | 50000 | 1 | | 2779. | L3SM | GSM | Downlink | 11:05:29.991 | SACCH | SYSTEM_INFORMATION_TYPE_6 | |
| | | | | | | 387. | | | | | | 0 | 2780. | L3SM | GSM | Uplink | 11:05:30.037 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 388. | -87 | 96 | | 50000 | 1 | | 2781. | L3SM | GSM | Downlink | 11:05:30.471 | SACCH | SYSTEM_INFORMATION_TYPE_5 | |
| | | | | | | 389. | | | | | | 0 | 2782. | L3SM | GSM | Uplink | 11:05:30.517 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 390. | -90 | 96 | | 50000 | 1 | | 2783. | L3SM | GSM | Downlink | 11:05:30.951 | SACCH | MEASUREMENT_INFORMATION | |
| | | | | | | 391. | | | | | | 3 | 2784. | L3SM | GSM | Uplink | 11:05:30.997 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 392. | -90 | 96 | | 50000 | 1 | | 2785. | L3SM | GSM | Downlink | 11:05:31.431 | SACCH | SYSTEM_INFORMATION_TYPE_6 | |
| | | | | | | 393. | | | | | | 4 | 2786. | L3SM | GSM | Uplink | 11:05:31.477 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 394. | -91 | 96 | | 50000 | 1 | | 2787. | L3SM | GSM | Downlink | 11:05:31.911 | SACCH | SYSTEM_INFORMATION_TYPE_5 | |
| | | | | | | 395. | | | | | | 5 | 2788. | L3SM | GSM | Uplink | 11:05:31.957 | SACCH | MEASUREMENT_REPORT | |
| | | | | | | 396. | -93 | 96 | | 50000 | 1 | | | | | | | | | |

- Analysis:**
- This call drop event occurred on long call at 11:06:23:274 time when UE was latched with 2G network.
 - After getting Alerting message at 11:04:48:402 time than Call drop happened.
 - During the session UE was latched with ARFCN 96 and RF condition Rx lev -91 dBm is good and Rx qual 6 dB was very poor.
 - As per the Analysis the call setup drop event occurred due to poor quality in the network.

Call Drop Analysis 1 From MS11 CWS MO

| | Time | System | Serving band | Call type | Cal | Time | RxLev sub | ARFCN | BSIC | LAC | RAC | RXQ sub |
|----|--------------|--------|--------------|------------|------|------|--------------|-------|------|-----|-----|---------|
| 1. | 11:05:31.099 | GSM | 900 | Voice call | Orig | 319. | 11:03:46.082 | -90 | 24 | 18 | 1 | 10 |
| | | | | | | 320. | 11:03:46.513 | | | | | 0 |
| | | | | | | 321. | 11:03:47.081 | -93 | 24 | 18 | 1 | 10 |
| | | | | | | 322. | 11:03:47.473 | -92 | 24 | 18 | 1 | 10 |
| | | | | | | 323. | 11:03:47.953 | | | | | 3 |
| | | | | | | 324. | 11:03:48.121 | -94 | 24 | 18 | 1 | 10 |
| | | | | | | 325. | 11:03:48.387 | | | | | |
| | | | | | | 326. | 11:05:04.585 | | | | | 2 |
| | | | | | | 327. | 11:05:05.065 | -90 | 24 | 15 | 10 | 10 |
| | | | | | | 328. | 11:05:05.065 | | | | | 0 |
| | | | | | | 329. | 11:05:05.545 | | | | | 7 |
| | | | | | | 330. | 11:05:06.025 | | | | | 6 |
| | | | | | | 331. | 11:05:06.078 | -94 | 24 | 15 | 1 | 10 |
| | | | | | | 332. | 11:05:06.505 | | | | | 7 |
| | | | | | | 333. | 11:05:06.528 | -95 | 24 | 15 | 1 | 10 |
| | | | | | | 334. | 11:05:06.985 | | | | | 5 |
| | | | | | | 335. | 11:05:07.148 | -94 | 24 | 15 | 1 | 10 |
| | | | | | | 336. | 11:05:07.465 | | | | | 6 |
| | | | | | | 337. | 11:05:07.589 | -95 | 24 | 15 | 1 | 10 |
| | | | | | | 338. | 11:05:07.945 | | | | | 7 |
| | | | | | | 339. | 11:05:08.032 | -94 | 24 | 15 | 1 | 10 |
| | | | | | | 340. | 11:05:08.429 | -96 | 24 | 15 | 1 | 10 |
| | | | | | | 341. | 11:05:09.149 | -96 | 24 | 15 | 1 | 10 |
| | | | | | | 342. | 11:05:09.611 | -95 | 24 | 15 | 1 | 10 |
| | | | | | | 343. | 11:05:10.144 | -95 | 24 | 15 | 1 | 10 |
| | | | | | | 344. | 11:05:10.571 | -95 | 24 | 15 | 1 | 10 |
| | | | | | | 345. | 11:05:11.129 | -95 | 24 | 15 | 1 | 10 |
| | | | | | | 346. | 11:05:11.531 | -95 | 24 | 15 | 1 | 10 |
| | | | | | | 347. | 11:05:12.143 | -96 | 24 | 15 | 1 | 10 |
| | | | | | | 348. | 11:05:12.790 | -95 | 24 | 15 | 1 | 10 |
| | | | | | | 349. | 11:05:13.266 | -97 | 24 | 15 | 1 | 10 |
| | | | | | | 350. | 11:05:13.792 | -97 | 24 | 15 | 1 | 10 |
| | | | | | | 351. | 11:05:14.185 | -97 | 24 | 15 | 1 | 10 |
| | | | | | | 352. | 11:05:14.665 | -97 | 24 | 15 | 1 | 10 |
| | | | | | | 353. | 11:05:15.311 | -96 | 24 | 15 | 1 | 10 |
| | | | | | | 354. | 11:05:16.086 | -96 | 24 | 15 | 1 | 10 |

| | System | Transf. dir. | Time | Subchannel | Message name |
|-------|--------|--------------|--------------|------------|------------------------------|
| 2631. | GSM | Uplink | 11:05:03.929 | DCCH | HANDOVER_COMPLETE |
| 2632. | GSM | Downlink | 11:05:03.989 | DCCH | PHYSICAL_INFORMATION |
| 2633. | GSM | Downlink | 11:05:04.072 | DCCH | PHYSICAL_INFORMATION |
| 2634. | GSM | Downlink | 11:05:04.132 | DCCH | PHYSICAL_INFORMATION |
| 2635. | GSM | Downlink | 11:05:04.211 | DCCH | PHYSICAL_INFORMATION |
| 2636. | GSM | Uplink | 11:05:04.237 | DCCH | GPRS_SUSPENSION_REQUEST |
| 2637. | GSM | Downlink | 11:05:04.350 | DCCH | IDENTITY_REQUEST |
| 2638. | GSM | Uplink | 11:05:04.350 | DCCH | IDENTITY_RESPONSE |
| 2639. | GSM | Downlink | 11:05:04.539 | SACCH | SYSTEM_INFORMATION_TYPE_5TER |
| 2640. | GSM | Uplink | 11:05:04.585 | SACCH | MEASUREMENT_REPORT |
| 2641. | GSM | Downlink | 11:05:05.018 | SACCH | SYSTEM_INFORMATION_TYPE_5 |
| 2642. | GSM | Uplink | 11:05:05.065 | SACCH | MEASUREMENT_REPORT |
| 2643. | GSM | Uplink | 11:05:05.545 | SACCH | MEASUREMENT_REPORT |
| 2644. | GSM | Downlink | 11:05:05.978 | SACCH | SYSTEM_INFORMATION_TYPE_6 |
| 2645. | GSM | Uplink | 11:05:06.025 | SACCH | MEASUREMENT_REPORT |
| 2646. | GSM | Downlink | 11:05:06.458 | SACCH | MEASUREMENT_INFORMATION |
| 2647. | GSM | Uplink | 11:05:06.505 | SACCH | MEASUREMENT_REPORT |
| 2648. | GSM | Downlink | 11:05:06.938 | SACCH | MEASUREMENT_INFORMATION |
| 2649. | GSM | Uplink | 11:05:06.985 | SACCH | MEASUREMENT_REPORT |
| 2650. | GSM | Downlink | 11:05:07.418 | SACCH | MEASUREMENT_INFORMATION |
| 2651. | GSM | Uplink | 11:05:07.465 | SACCH | MEASUREMENT_REPORT |
| 2652. | GSM | Uplink | 11:05:07.945 | SACCH | MEASUREMENT_REPORT |
| 2653. | GSM | Uplink | 11:05:08.425 | SACCH | MEASUREMENT_REPORT |
| 2654. | GSM | Uplink | 11:05:08.905 | SACCH | MEASUREMENT_REPORT |
| 2655. | GSM | Downlink | 11:05:09.338 | SACCH | SYSTEM_INFORMATION_TYPE_5TER |
| 2656. | GSM | Uplink | 11:05:09.385 | SACCH | MEASUREMENT_REPORT |
| 2657. | GSM | Uplink | 11:05:09.865 | SACCH | MEASUREMENT_REPORT |
| 2658. | GSM | Uplink | 11:05:10.345 | SACCH | MEASUREMENT_REPORT |
| 2659. | GSM | Uplink | 11:05:10.825 | SACCH | MEASUREMENT_REPORT |
| 2660. | GSM | Uplink | 11:05:11.305 | SACCH | MEASUREMENT_REPORT |
| 2661. | GSM | Uplink | 11:05:11.785 | SACCH | MEASUREMENT_REPORT |
| 2662. | GSM | Uplink | 11:05:12.265 | SACCH | MEASUREMENT_REPORT |
| 2663. | GSM | Uplink | 11:05:12.745 | SACCH | MEASUREMENT_REPORT |
| 2664. | GSM | Uplink | 11:05:13.225 | SACCH | MEASUREMENT_REPORT |
| 2665. | GSM | Downlink | 11:05:13.658 | SACCH | SYSTEM_INFORMATION_TYPE_6 |
| 2666. | GSM | Uplink | 11:05:13.705 | SACCH | MEASUREMENT_REPORT |

Analysis:

- This call drop event occurred on long call at 11:05:31:099 time when UE was latched with 2G network.
- After getting Alerting message at 11:04:49:466 time than Call drop happened.
- During the session UE was latched with ARFCN 24 and RF condition Rx lev -95 dBm is good and Rx qual 7 dB was very poor.
- As per the Analysis the call setup drop event occurred due to poor quality in the network.

THANKS