

**Seychelles Test Drive**

**Les Mamelles Phase-2 Report**



Phase-1 Dates- 08<sup>th</sup> Oct 2024



Route Name: Mahe

District Name: Les Mamelles

Region: East

Island: Mahé

Drive Test Distance: 6.04 kms

Drive Test Duration: 00 hours,25 minutes,53 seconds

Phase-2 Dates- 21<sup>st</sup> Oct 2024



Route Name: Mahe

District Name: Les Mamelles

Region: East

Island: Mahé

Drive Test Distance: 6.24 kms

Drive Test Duration: 00 hours,26 minutes,48 seconds

**Phase-1****Short Call Findings:**

- The Call Setup Success Rate for Airtel is (96.88%), while for Operator CWS it is (93.33%).
- The Call Setup Time for Airtel is (7.83s) , while for Operator CWS it is (8.82s)

**Long Call Findings :**

- The Call Retainability for Airtel is (100.00%), while for CWS it is (90.00%).
- The MOS quality observed for Airtel is (2.90), and for CWS, it is (2.94).

**Phase-2****Short Call Findings:**

- The Call Setup Success Rate for Airtel is (96.88%), while for Operator CWS it is (93.33%).
- The Call Setup Time for Airtel is (7.56s), while for Operator CWS it is (9.73s)

**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 (2.86), and for CWS, it is (2.85).

## Phase-1

### 4G Preferred Data Findings:

- Airtel SFTP DL is (7.81 Mbps), while SFTP UL is (4.96 Mbps), CWS SFTP DL is (4.31 Mbps), while SFTP UL is (3.29 Mbps)
- Airtel HTTP DL is (10.12 Mbps), HTTP Capacity DL is (12.35 Mbps) ,HTTP UL is (8.11 Mbps) , and HTTP Capacity UL is (10.11 Mbps).
- CWS HTTP DL is (5.69 Mbps), HTTP Capacity DL is (6.68 Mbps) ,HTTP UL is (6.31 Mbps) , and HTTP Capacity UL is (11.92 Mbps).
- On live web page testing for browsing, [www.shein.com](http://www.shein.com) took (9.51s), [www.nbs.gov.sc](http://www.nbs.gov.sc) took (20.32s), and [www.sbc.sc](http://www.sbc.sc) took (27.36s) on Airtel.
- On live web page testing for browsing, [www.shein.com](http://www.shein.com) took (14.49s), [www.nbs.gov.sc](http://www.nbs.gov.sc) took (19.96s), and [www.sbc.sc](http://www.sbc.sc) took (30.59s) on CWS.
- On static browsing, Kepler Webpage took (5.47s), and Kepler Mobile took (1.69s) on Airtel.
- On static browsing, Kepler Webpage took (6.43s), and Kepler Mobile took (4.25s) on CWS.
- YouTube average resolution in Airtel is (1042.80) pixels.
- YouTube average resolution in CWS is (963.12) pixels.
- Airtel scored 52.35% in Carrier Aggregation (CA).
- CWS scored 13.99% in Carrier Aggregation (CA).

## Phase-2

### 4G Preferred Data Findings:

- Airtel SFTP DL is (4.15 Mbps), while SFTP UL is (2.15 Mbps), CWS SFTP DL is (3.52 Mbps), while SFTP UL is (3.19 Mbps)
- Airtel HTTP DL is (5.38 Mbps), HTTP Capacity DL is (6.95 Mbps) ,HTTP UL is (3.05 Mbps) , and HTTP Capacity UL is (9.25 Mbps).
- CWS HTTP DL is (4.65 Mbps), HTTP Capacity DL is (5.57 Mbps) ,HTTP UL is (6.61 Mbps) , and HTTP Capacity UL is (26.95 Mbps).
- On live web page testing for browsing, [www.shein.com](http://www.shein.com) took (6.57s), [www.nbs.gov.sc](http://www.nbs.gov.sc) took (22.90s), and [www.sbc.sc](http://www.sbc.sc) took (23.82s) on Airtel.
- On live web page testing for browsing, [www.shein.com](http://www.shein.com) took (14.14s), [www.nbs.gov.sc](http://www.nbs.gov.sc) took (20.47s), and [www.sbc.sc](http://www.sbc.sc) took (29.50s) on CWS.
- On static browsing, Kepler Webpage took (3.88s), and Kepler Mobile took (2.27s) on Airtel.
- On static browsing, Kepler Webpage took (5.72s), and Kepler Mobile took (3.48s) on CWS.
- YouTube average resolution in Airtel is (975.74) pixels.
- YouTube average resolution in CWS is (939.01) pixels.
- Airtel scored 50.72% in Carrier Aggregation (CA).
- CWS scored 14.14% in Carrier Aggregation (CA).

## Phase-1

### 3G Preferred Data Test Findings:

- All tests for webpage DL time (s) on [www.shein.com](http://www.shein.com) failed for the 3G CWS operator. The issue may be related to network performance.
- Airtel SFTP DL is (3.51 Mbps), while SFTP UL is (1.35 Mbps), CWS SFTP DL is (2.45 Mbps), while SFTP UL is (0.87 Mbps)
- Airtel HTTP DL is (3.54 Mbps), HTTP Capacity DL is (2.43 Mbps) ,HTTP UL is (1.73 Mbps) , and HTTP Capacity UL is (4.16 Mbps).
- CWS HTTP DL is (3.43 Mbps), HTTP Capacity DL is (0.68 Mbps) ,HTTP UL is (1.56 Mbps) , and HTTP Capacity UL is (2.55 Mbps).
- On live web page testing for browsing, [www.shein.com](http://www.shein.com) took (17.03s), [www.nbs.gov.sc](http://www.nbs.gov.sc) took (17.47s), and [www.sbc.sc](http://www.sbc.sc) took (21.38s) on Airtel.
- On live web page testing for browsing, [www.shein.com](http://www.shein.com) took (N/A), [www.nbs.gov.sc](http://www.nbs.gov.sc) took (43.17s), and [www.sbc.sc](http://www.sbc.sc) took (20.73s) on CWS.
- On static browsing, Kepler Webpage took (4.98s), and Kepler Mobile took (2.46s) on Airtel.
- On static browsing, Kepler Webpage took (6.02s), and Kepler Mobile took (4.45s) on CWS.
- YouTube average resolution in Airtel is (849.47) pixels.
- YouTube average resolution in CWS is (817.06) pixels.

## Phase-2

### 3G Preferred Data Test Findings:

- Airtel SFTP DL is (3.93 Mbps), while SFTP UL is (0.77 Mbps), CWS SFTP DL is (2.55 Mbps), while SFTP UL is (1.02 Mbps)
- Airtel HTTP DL is (3.63 Mbps), HTTP Capacity DL is (3.25 Mbps) ,HTTP UL is (1.06 Mbps) , and HTTP Capacity UL is (3.21 Mbps).
- CWS HTTP DL is (2.45 Mbps), HTTP Capacity DL is (0.64 Mbps) ,HTTP UL is (1.26 Mbps) , and HTTP Capacity UL is (4.03 Mbps).
- On live web page testing for browsing, [www.shein.com](http://www.shein.com) took (14.09s), [www.nbs.gov.sc](http://www.nbs.gov.sc) took (15.15s), and [www.sbc.sc](http://www.sbc.sc) took (19.03s) on Airtel.
- On live web page testing for browsing, [www.shein.com](http://www.shein.com) took (12.97s), [www.nbs.gov.sc](http://www.nbs.gov.sc) took (17.88s), and [www.sbc.sc](http://www.sbc.sc) took (17.25s) on CWS.
- On static browsing, Kepler Webpage took (5.09s), and Kepler Mobile took (3.54s) on Airtel.
- On static browsing, Kepler Webpage took (6.11s), and Kepler Mobile took (2.70s) on CWS.
- YouTube average resolution in Airtel is (1001.22) pixels.
- YouTube average resolution in CWS is (980.82) 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	<b>Airtel</b>	<b>CWS</b>
Call Attempt	32	30
Call Failed	1	2
Call Connected	31	28
CSSR[%]	<b>96.88</b>	<b>93.33</b>
USCSR[%]	3.13	6.67
CST [s] Alerting	7.83	8.82
CST [s]Connected	8.09	9.00

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)	7.83	8.82	1	2
CS calls CST (until ringing/alerting)	8.01	#N/A	1	#N/A
CSFB calls CST (until ringing/alerting)	7.69	8.82	1	2
Overall CST (until Connect/Connect Acknowledge)	8.09	9.00	1	2
CS calls CST (until Connect/Connect Acknowledge)	8.34	#N/A	1	#N/A
CSFB calls CST (until Connect/Connect Acknowledge)	7.89	9.00	1	2

## Phase-2

Short Call Statistics		
Short Call Scenario	Operator 1	Operator 2
Voice KPIs	<b>Airtel</b>	<b>CWS</b>
Call Attempt	32	30
Call Failed	1	2
Call Connected	31	28
CSSR[%]	<b>96.88</b>	<b>93.33</b>
USCSR[%]	3.13	6.67
CST [s] Alerting	7.56	9.73
CST [s]Connected	7.82	9.90

Call Setup Time (s)	Operators		Rank	
	Airtel	CWS	Airtel	CWS
Overall CST (until ringing/alerting)	7.56	9.73	1	2
CS calls CST (until ringing/alerting)	6.85	#N/A	#N/A	#N/A
CSFB calls CST (until ringing/alerting)	8.28	9.73	1	2
Overall CST (until Connect/Connect Acknowledge)	7.82	9.90	1	2
CS calls CST (until Connect/Connect Acknowledge)	7.06	#N/A	#N/A	#N/A
CSFB calls CST (until Connect/Connect Acknowledge)	8.52	9.90	1	2

## Phase-1

Long Call Statistics				
Long Call Scenario	Operator 1		Operator 2	
Voice KPIs	Airtel	CWS		
Call Connected	10	10		
Call Dropped	0	1		
Call Completed	10	9		
CRR[%]	100.00	90.00		
DCR[%]	0.00	10.00		
MOS	2.90	2.94		
	Airtel short call	CWS short call	Airtel long call	CWS long call
CSFB Calls	17	30	6	10
CS Calls	15	0	4	0
Handover Statistics		Airtel MO	CWS MO	
Handover Attempt		21	67	
Handover Failure		0	1	
Handover Success		21	66	
HOSR %		100.00	98.51	

## Phase-2

Long Call Statistics				
Long Call Scenario	Operator 1		Operator 2	
Voice KPIs	Airtel	CWS		
Call Connected	10	10		
Call Dropped	0	0		
Call Completed	10	10		
CRR[%]	100.00	100.00		
DCR[%]	0.00	0.00		
MOS	2.86	2.85		
	Airtel short call	CWS short call	Airtel long call	CWS long call
CSFB Calls	16	30	5	8
CS Calls	16	0	5	2
Handover Statistics		Airtel MO	CWS MO	
Handover Attempt		32	59	
Handover Failure		3	1	
Handover Success		29	58	
HOSR %		90.63	98.31	



# 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)	7.81	4.31	1	2	4.15	3.52	1	2
	SFTP UL(Mbps)	4.96	3.29	1	2	2.51	3.19	2	1
	HTTP DL(Mbps)	10.12	5.69	1	2	5.38	4.65	1	2
	HTTP UL(Mbps)	8.11	6.31	1	2	3.05	6.61	2	1
	HTTP Capacity DL(Mbps)	12.35	6.68	1	2	6.95	5.57	1	2
	HTTP Capacity UL(Mbps)	10.11	11.92	2	1	9.25	26.95	2	1
BROWSER	Overall Browser DL Time (s)	13.07	14.88	1	2	12.77	15.77	1	2
	Kepler Webpage DL Time (s)	5.47	6.43	1	2	3.88	5.72	1	2
	Mobile Kepler Webpage DL Time (s)	1.69	4.25	1	2	2.27	3.48	1	2
	www.shein.com Webpage DL Time (s)	9.51	14.49	1	2	6.57	14.14	1	2
	www.nbs.gov.sc Webpage DL Time (s)	20.32	19.96	2	1	22.90	20.47	2	1
	www.sbc.sc Webpage DL Time (s)	27.36	30.59	1	2	23.82	29.50	1	2
LATENCY	Avg Latency (ms)	238.27	321.15	1	2	274.05	289.89	1	2
	Median Latency (ms)	135	286	1	2	398	242	2	1
YOUTUBE	YouTube Access Time (s)	5.68	1.91	2	1	5.77	2.69	2	1
	YouTube Average Resolution (pixels)	1042.80	963.12	1	2	957.74	939.01	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	5	4	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	4	5	80.00	100.00
	Failure	1	0	20.00	0.00
HTTP DL	Success	5	5	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	5	5	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity DL	Success	3	3	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	3	3	100.00	100.00
	Failure	0	0	0.00	0.00

## Phase-2

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
SFTP DL	Success	5	5	83.33	100.00
	Failure	1	0	16.67	0.00
SFTP UL	Success	4	5	80.00	100.00
	Failure	1	0	20.00	0.00
HTTP DL	Success	5	4	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	5	4	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity DL	Success	3	3	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	3	3	100.00	100.00
	Failure	0	0	0.00	0.00

## Phase-1

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Kepler	Success	3	4	60.00	100.00
	Failure	2	0	40.00	0.00
Mobile Kepler	Success	4	3	100.00	100.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	5	4	100.00	100.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	4	4	80.00	100.00
	Failure	1	0	20.00	0.00
www.sbc.sc	Success	4	3	100.00	100.00
	Failure	0	0	0.00	0.00

## Phase-2

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Kepler	Success	2	3	50.00	75.00
	Failure	2	1	50.00	25.00
Mobile Kepler	Success	4	3	100.00	75.00
	Failure	0	1	0.00	25.00
www.shein.com	Success	4	4	100.00	100.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	4	4	100.00	100.00
	Failure	0	0	0.00	0.00
www.sbc.sc	Success	4	4	100.00	100.00
	Failure	0	0	0.00	0.00

## Phase-1

	Latency KPIs	Airtel 4G	CWS 4G
Overall Latency	Sample Count [32 bytes]	8	8
	Average Latency [ms]	234.00	310.50
	Median Latency [ms]	134	288
	Ping session status: Successful	8	8
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	1	0
	Packet Loss<1%	11.11	0.00
www.google.com	Average Latency [ms]	411.33	181.67
	Median Latency [ms]	412	163
	Ping session status: Successful	3	3
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	1	0
	Packet Loss<1%	25.00	0.00
102.133.176.104	Average Latency [ms]	127.60	387.80
	Median Latency [ms]	127	351
	Ping session status: Successful	5	5
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00

## Phase-2

	Latency KPIs	Airtel 4G	CWS 4G
Overall Latency	Sample Count [32 bytes]	7	6
	Average Latency [ms]	292.43	265.67
	Median Latency [ms]	400	212
	Ping session status: Successful	7	6
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	1	1
	Packet Loss<1%	12.50	14.29
www.google.com	Average Latency [ms]	418.00	175.50
	Median Latency [ms]	412	176
	Ping session status: Successful	4	2
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	1
	Packet Loss<1%	0.00	33.33
102.133.176.104	Average Latency [ms]	125.00	310.75
	Median Latency [ms]	124	260
	Ping session status: Successful	3	4
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	1	0
	Packet Loss<1%	25.00	0.00

## Phase-1

LTE YOUTUBE Success Ratio		
KPIs	Airtel 4G	CWS 4G
Attempt(Count)	5	5
Success(Count)	5	5
Failure(Count)	0	0
YouTube Access Time (s)	5.68	1.91
YouTube Average Resolution (pixels)	1042.80	963.12
YouTube Success Ratio [%]	100.00	100.00

## Phase-2

LTE YOUTUBE Success Ratio		
KPIs	Airtel 4G	CWS 4G
Attempt(Count)	4	4
Success(Count)	4	4
Failure(Count)	0	0
YouTube Access Time (s)	5.77	2.69
YouTube Average Resolution (pixels)	957.74	939.01
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)	3.51	2.45	1	2	3.93	2.55	1	2
	SFTP UL(Mbps)	1.35	0.87	1	2	0.77	1.02	2	1
	HTTP DL(Mbps)	3.54	3.43	1	2	3.63	2.45	1	2
	HTTP UL(Mbps)	1.73	1.56	1	2	1.06	1.26	2	1
	HTTP Capacity DL(Mbps)	2.43	0.68	1	2	3.25	0.64	1	2
	HTTP Capacity UL(Mbps)	4.16	2.55	1	2	3.21	4.03	2	1
BROWSER	Overall Browser DL Time (s)	11.18	18.59	1	2	11.79	11.81	1	2
	Kepler Webpage DL Time (s)	4.98	6.02	1	2	5.09	6.11	1	2
	Mobile Kepler Webpage DL Time (s)	2.46	4.45	1	2	3.54	2.70	2	1
	www.shein.com Webpage DL Time (s)	17.03	0.00	1	2	14.09	12.97	2	1
	www.nbs.gov.sc Webpage DL Time (s)	17.47	43.17	1	2	15.15	17.88	1	2
	www.sbc.sc Webpage DL Time (s)	21.38	20.73	2	1	19.03	17.27	2	1
LATENCY	Avg Latency (ms)	318.63	218.65	2	1	272.60	240.79	2	1
	Median Latency (ms)	257	197	2	1	176	197	1	2
YOUTUBE	YouTube Access Time (s)	5.70	4.40	2	1	3.96	11.24	1	2
	YouTube Average Resolution (pixels)	849.47	817.06	1	2	1001.22	980.82	1	2
	YouTube Success Ratio [%]	100.00	66.67	1	2	100.00	75.00	1	2



## Phase-1

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	4	2	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	4	1	100.00	50.00
	Failure	0	1	0.00	50.00
HTTP DL	Success	5	1	100.00	50.00
	Failure	0	1	0.00	50.00
HTTP UL	Success	5	1	100.00	33.33
	Failure	0	2	0.00	66.67
HTTP Capacity DL	Success	3	2	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	2	2	66.67	100.00
	Failure	1	0	33.33	0.00

## Phase-2

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	4	3	80.00	100.00
	Failure	1	0	20.00	0.00
SFTP UL	Success	4	2	66.67	66.67
	Failure	2	1	33.33	33.33
HTTP DL	Success	4	3	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	4	3	100.00	75.00
	Failure	0	1	0.00	25.00
HTTP Capacity DL	Success	3	2	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	3	1	100.00	100.00
	Failure	0	0	0.00	0.00

## Phase-1

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Kepler	Success	4	1	100.00	33.33
	Failure	0	2	0.00	66.67
Mobile Kepler	Success	3	1	100.00	50.00
	Failure	0	1	0.00	50.00
www.shein.com	Success	3	0	100.00	0.00
	Failure	0	2	0.00	100.00
www.nbs.gov.sc	Success	2	1	66.67	100.00
	Failure	1	0	33.33	0.00
www.sbc.sc	Success	2	1	66.67	50.00
	Failure	1	1	33.33	50.00

## Phase-2

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Kepler	Success	4	2	100.00	50.00
	Failure	0	2	0.00	50.00
Mobile Kepler	Success	3	2	100.00	100.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	4	1	100.00	33.33
	Failure	0	2	0.00	66.67
www.nbs.gov.sc	Success	4	2	100.00	50.00
	Failure	0	2	0.00	50.00
www.sbc.sc	Success	4	3	100.00	100.00
	Failure	0	0	0.00	0.00

## Phase-1

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	3	3
	Average Latency [ms]	272.67	321.67
	Median Latency [ms]	267	198
	Ping session status: Successful	3	4
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	3	0
	Packet Loss<1%	50.00	0.00
www.google.com	Average Latency [ms]	428.00	154.00
	Median Latency [ms]	428	153
	Ping session status: Successful	1	2
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	2	0
	Packet Loss<1%	66.67	0.00
102.133.176.104	Average Latency [ms]	195.00	405.50
	Median Latency [ms]	195	406
	Ping session status: Successful	2	2
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	1	0
	Packet Loss<1%	33.33	0.00

## Phase-2

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	7	4
	Average Latency [ms]	261.29	171.75
	Median Latency [ms]	176	167
	Ping session status: Successful	7	4
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	1
	Packet Loss<1%	0.00	20.00
www.google.com	Average Latency [ms]	414.33	136.50
	Median Latency [ms]	415	137
	Ping session status: Successful	3	2
	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]	146.50	207.00
	Median Latency [ms]	142	207
	Ping session status: Successful	4	2
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	1
	Packet Loss<1%	0.00	33.33

## Phase-1

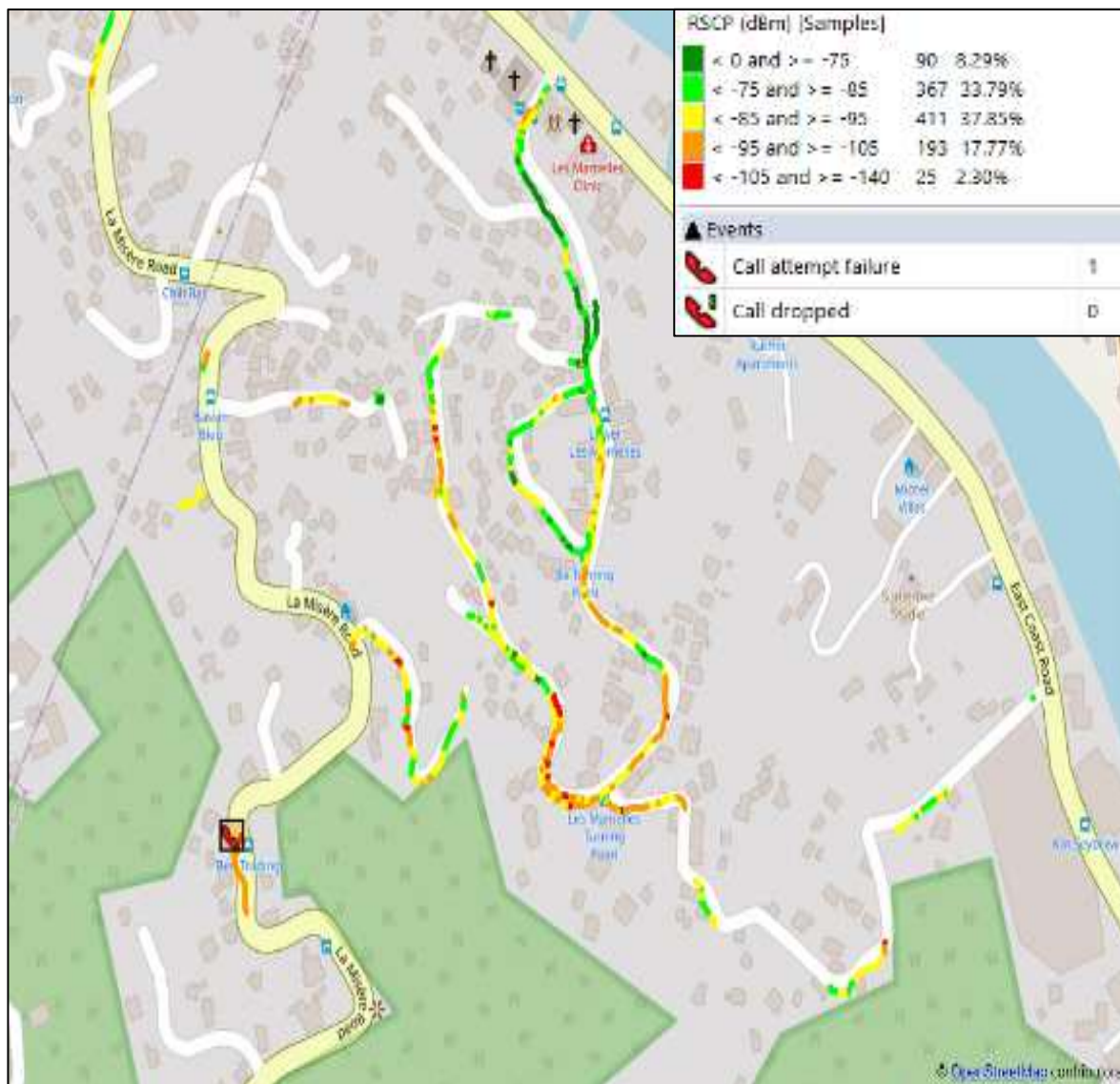
UMTS YOUTUBE Success Ratio		
KPIs	Airtel 3G	CWS 3G
Attempt(Count)	4	3
Success(Count)	4	2
Failure(Count)	0	1
YouTube Access Time (s)	5.70	4.40
YouTube Average Resolution (pixels)	849.47	817.06
YouTube Success Ratio [%]	100.00	66.67

## Phase-2

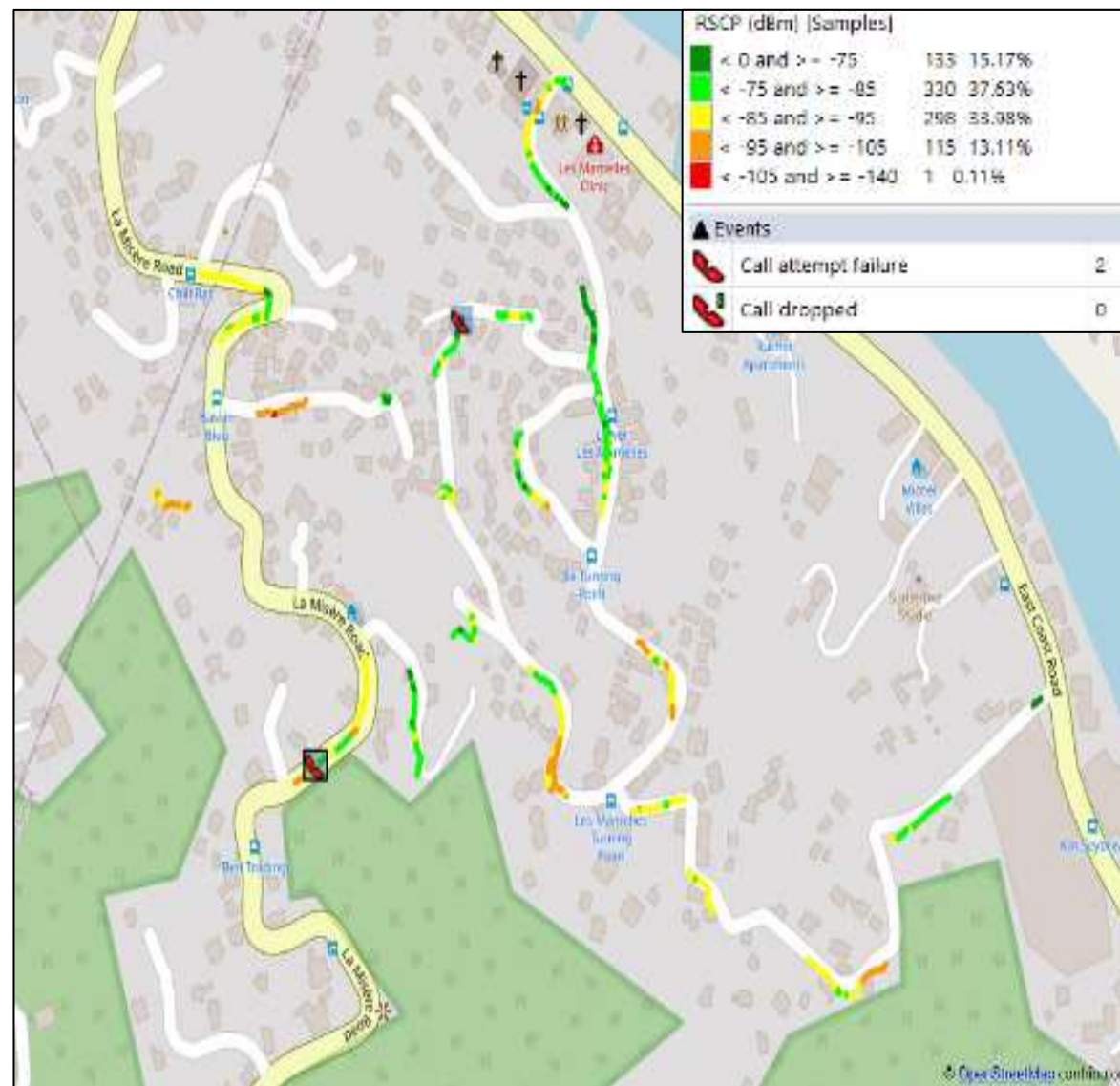
UMTS YOUTUBE Success Ratio		
KPIs	Airtel 3G	CWS 3G
Attempt(Count)	4	4
Success(Count)	4	3
Failure(Count)	0	1
YouTube Access Time (s)	3.96	11.24
YouTube Average Resolution (pixels)	1001.22	980.82
YouTube Success Ratio [%]	100.00	75.00

# Voice Call Events

## Airtel SC MO

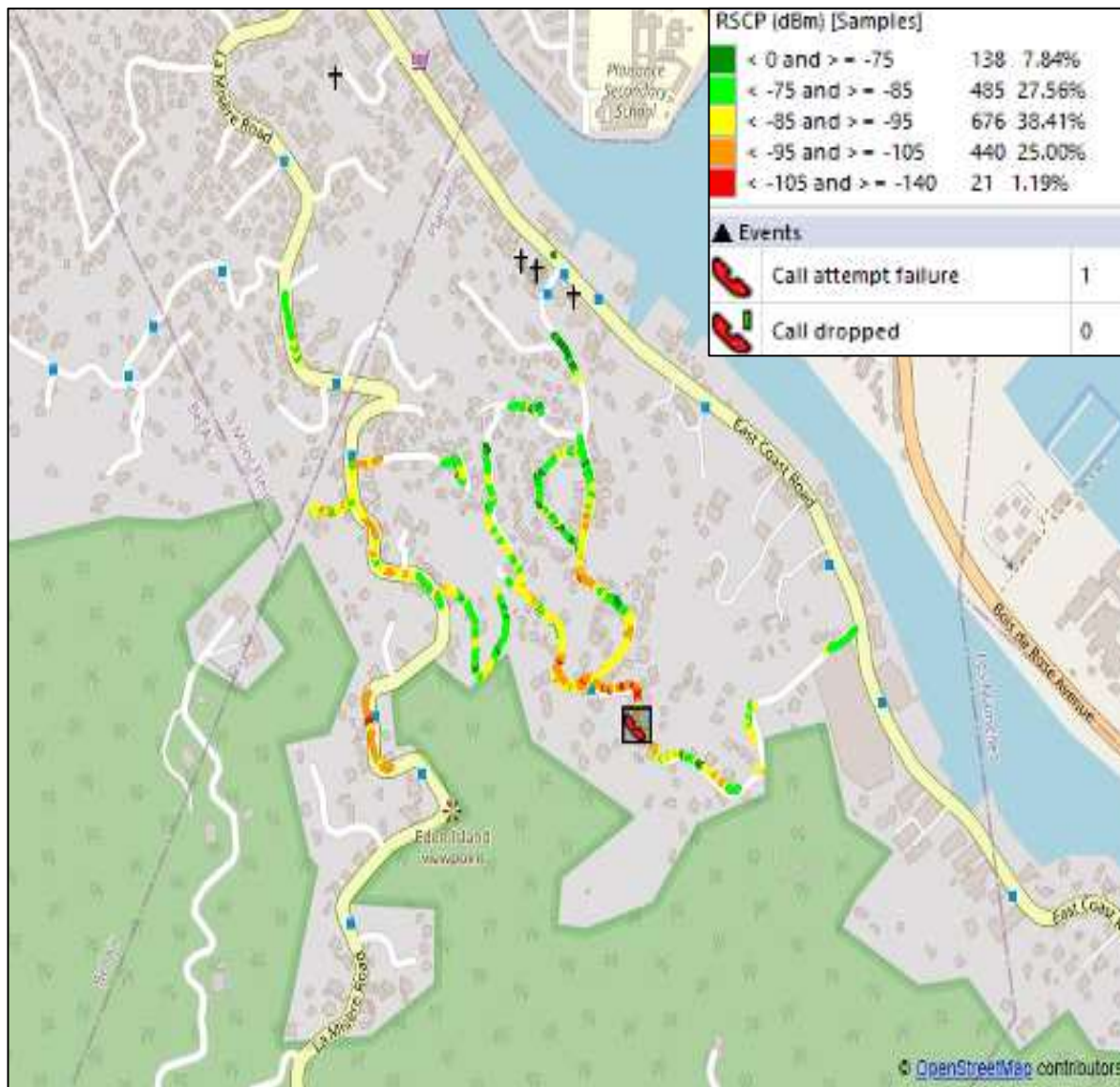


## CWS SC MO

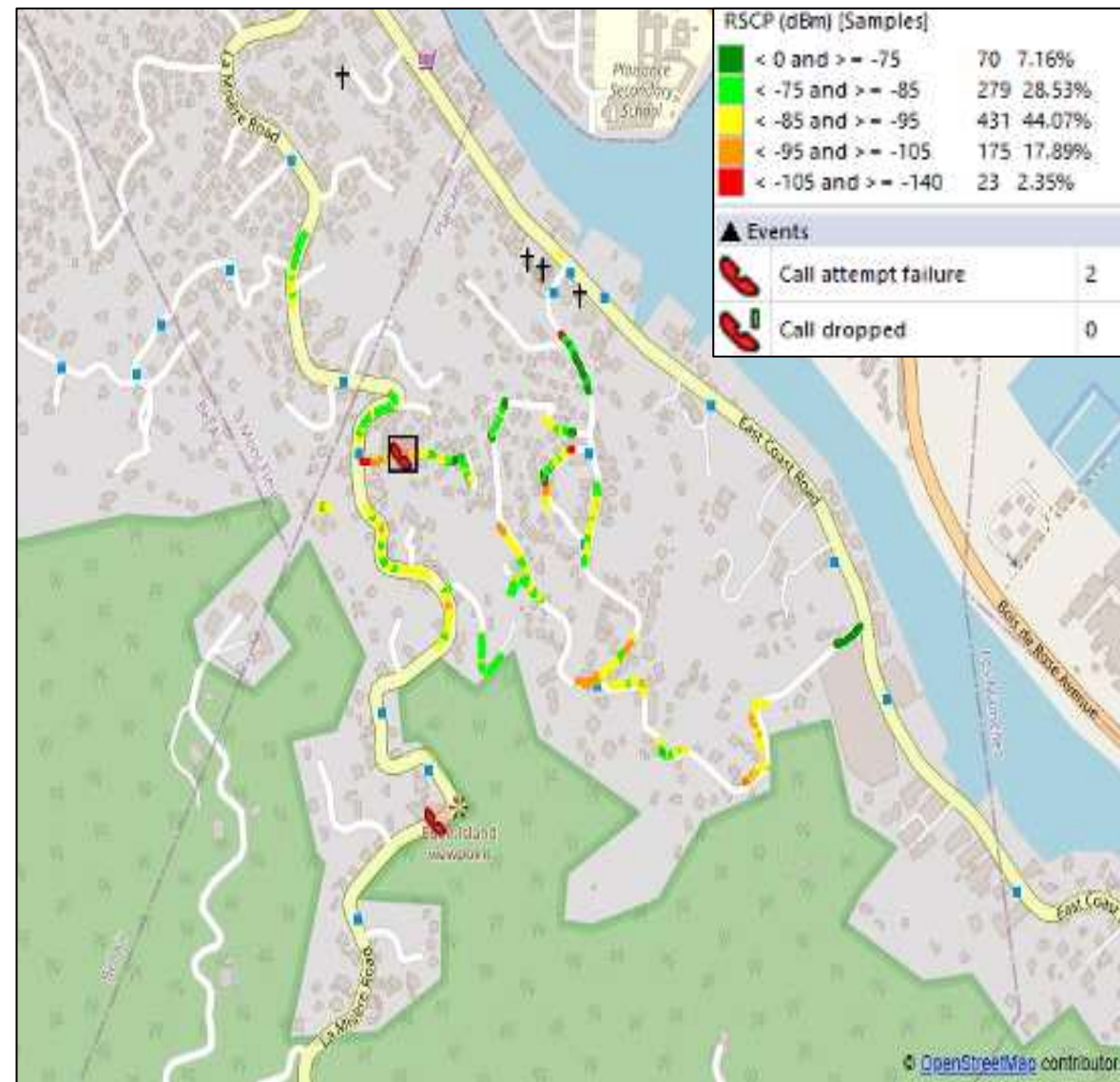




## Airtel SC MO

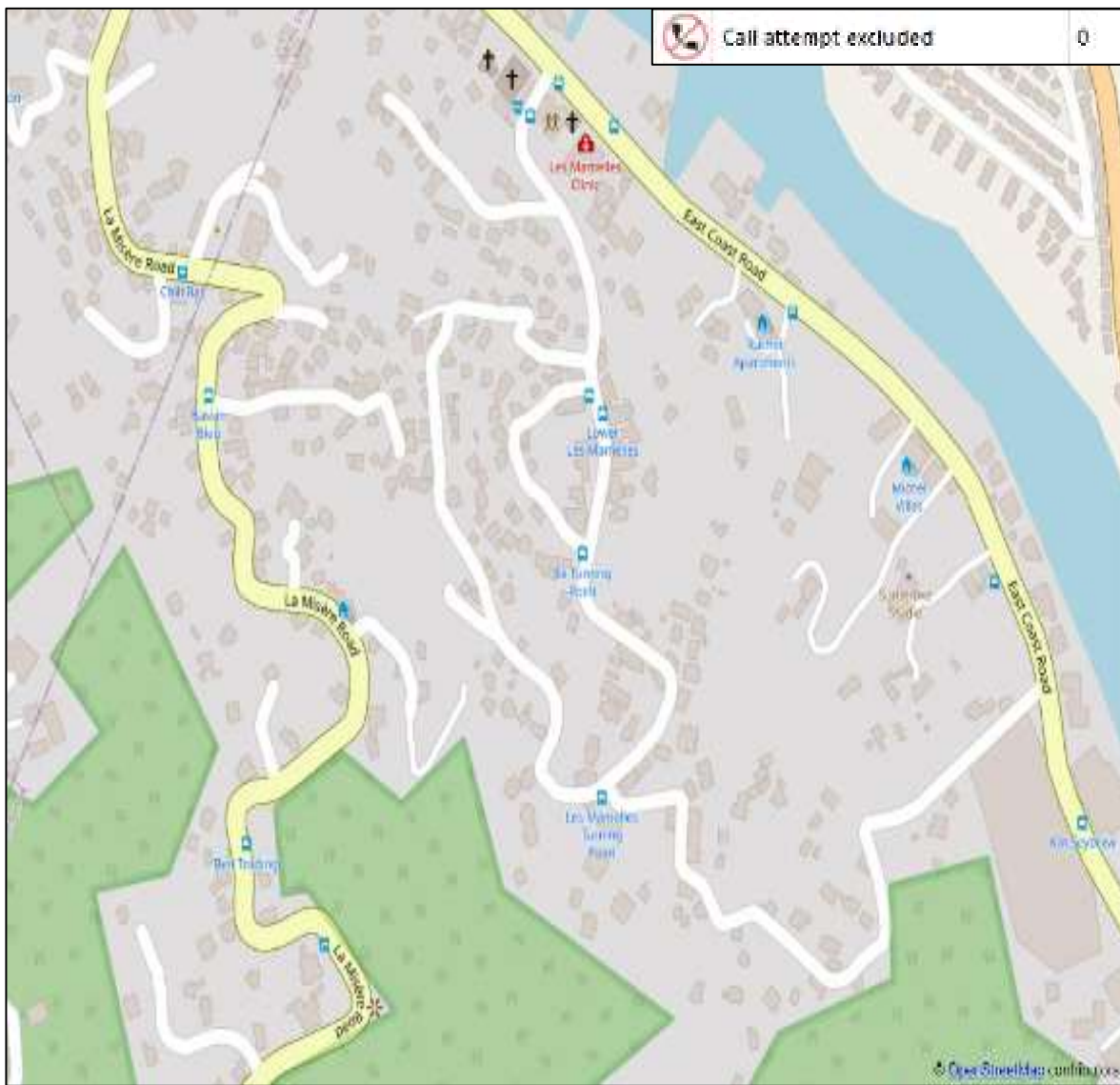


## CWS SC MO

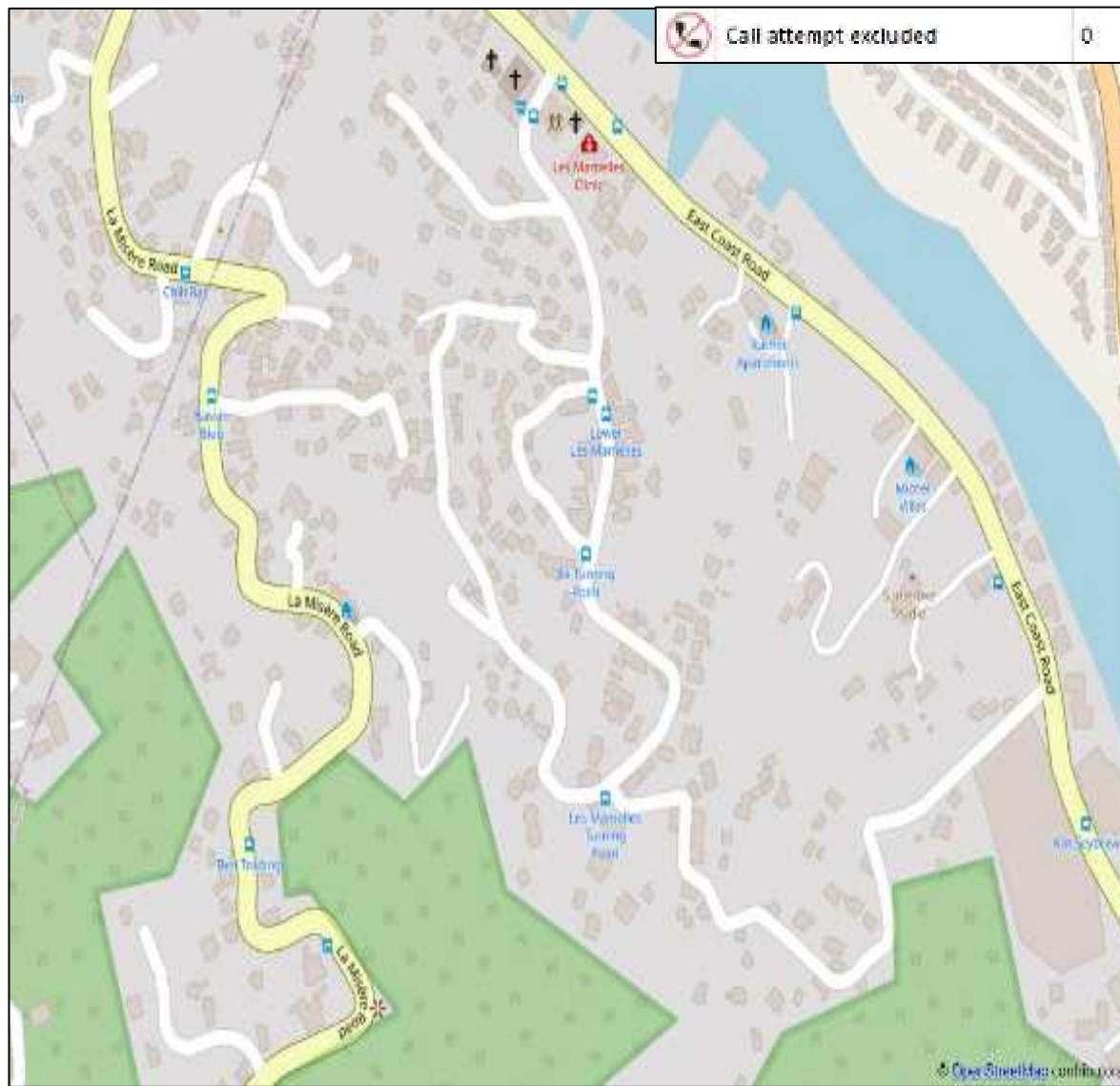


# Phase-1 SHORT CALL EXCLUDED EVENTS

## Airtel SC MO



## CWS SC MO



# Phase-2 SHORT CALL EXCLUDED EVENTS

## Airtel SC MO

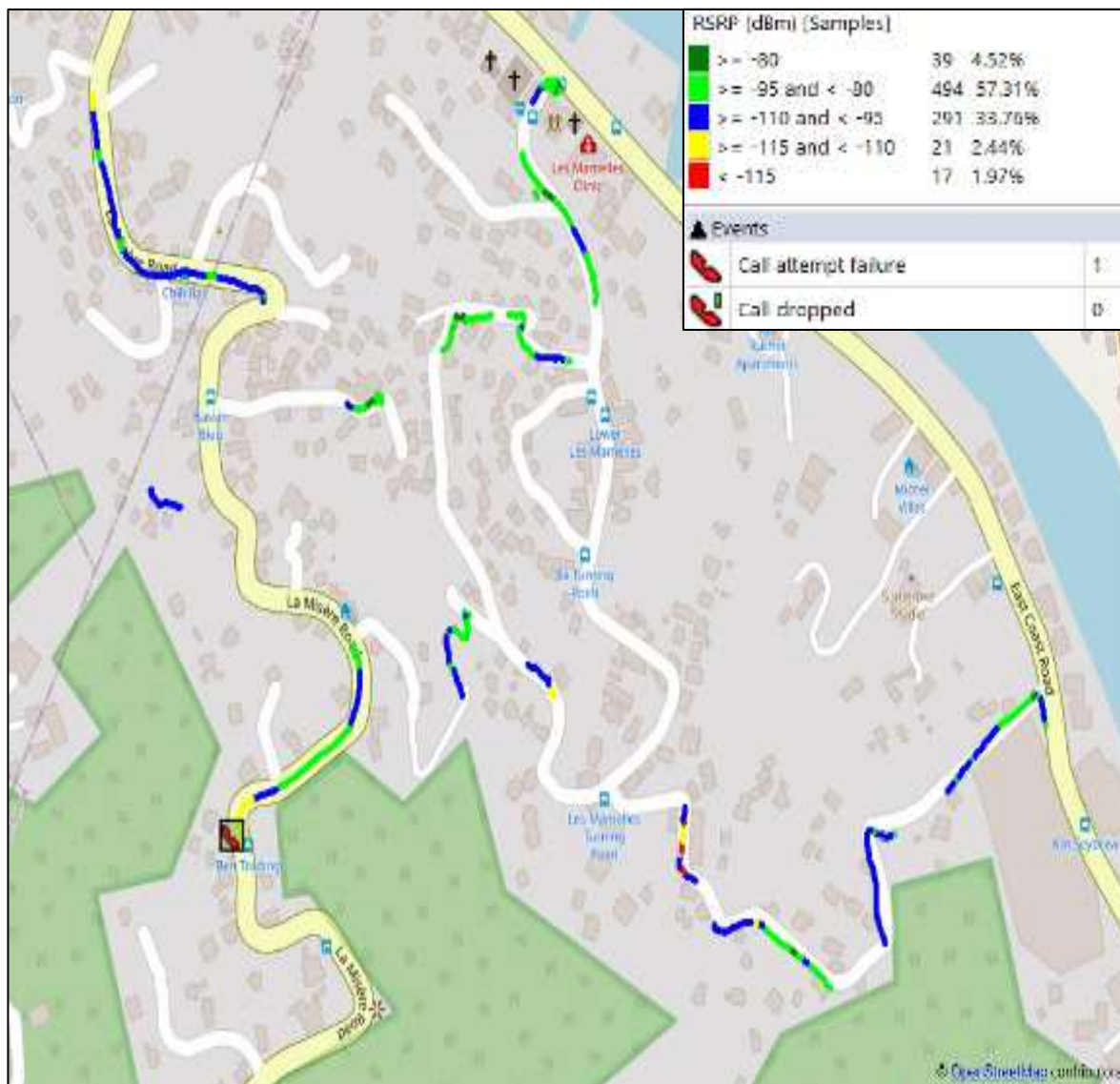


## CWS SC MO

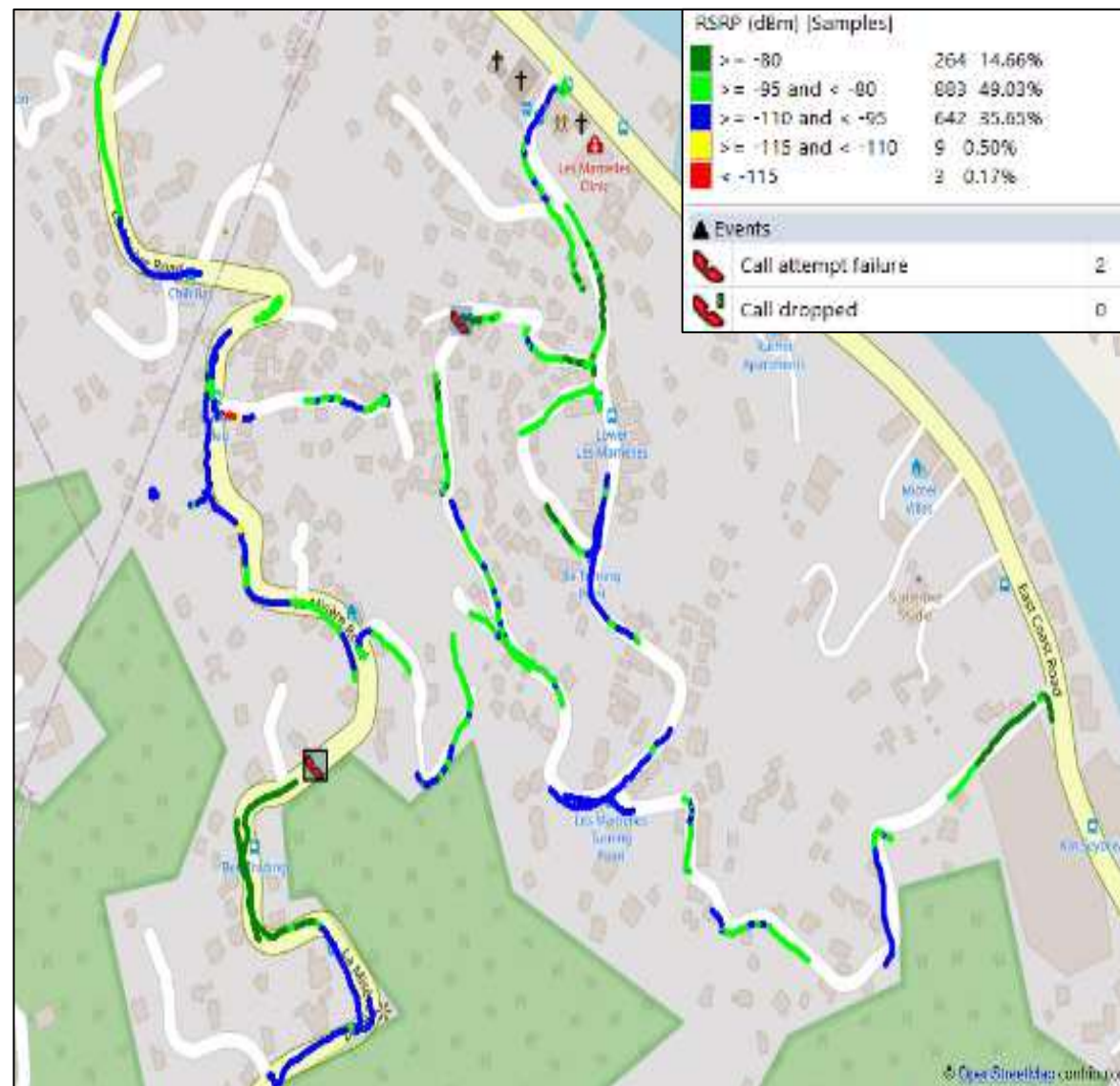




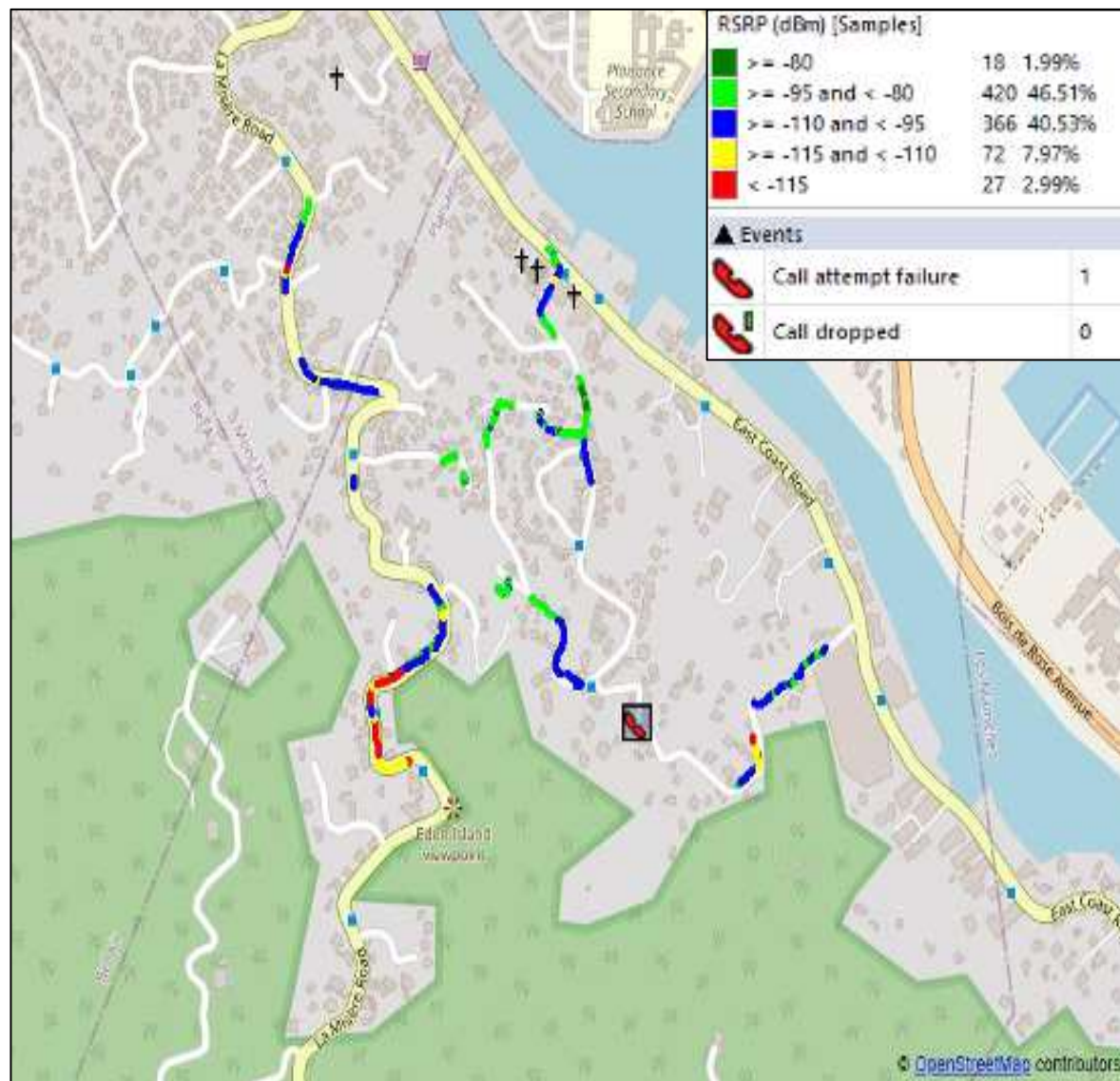
## Airtel SC MO



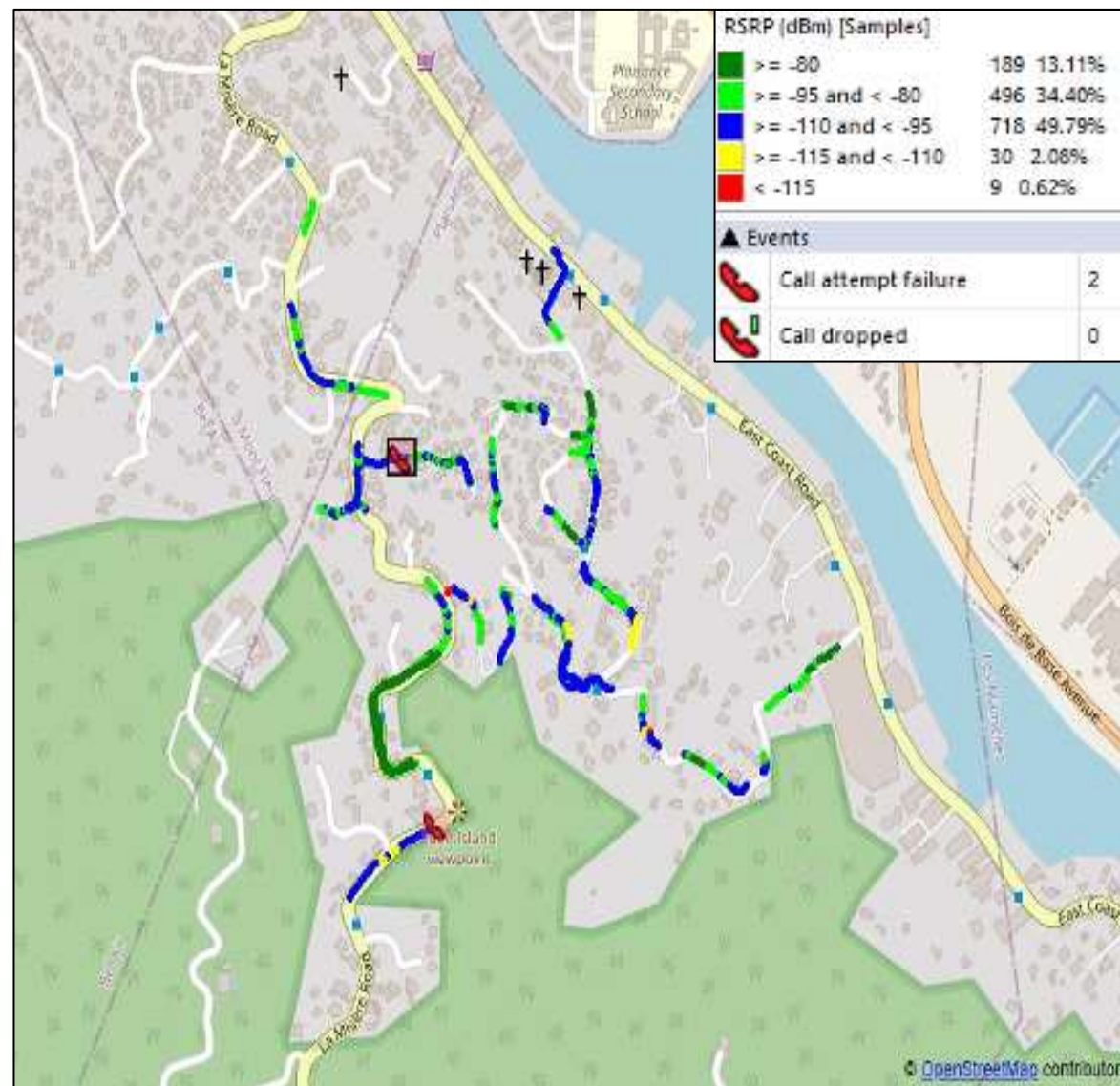
## CWS SC MO



## Airtel SC MO

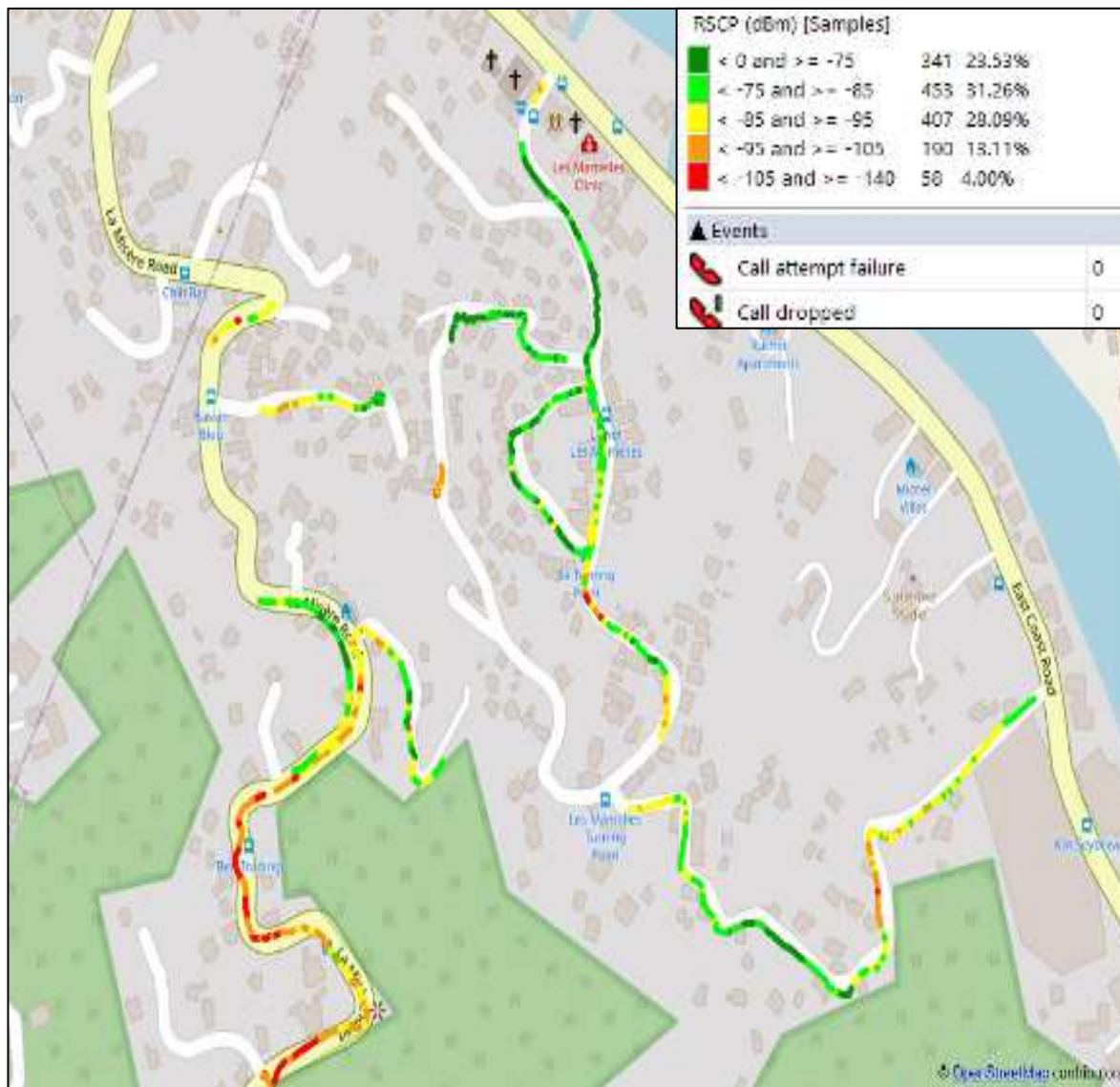


## CWS SC MO

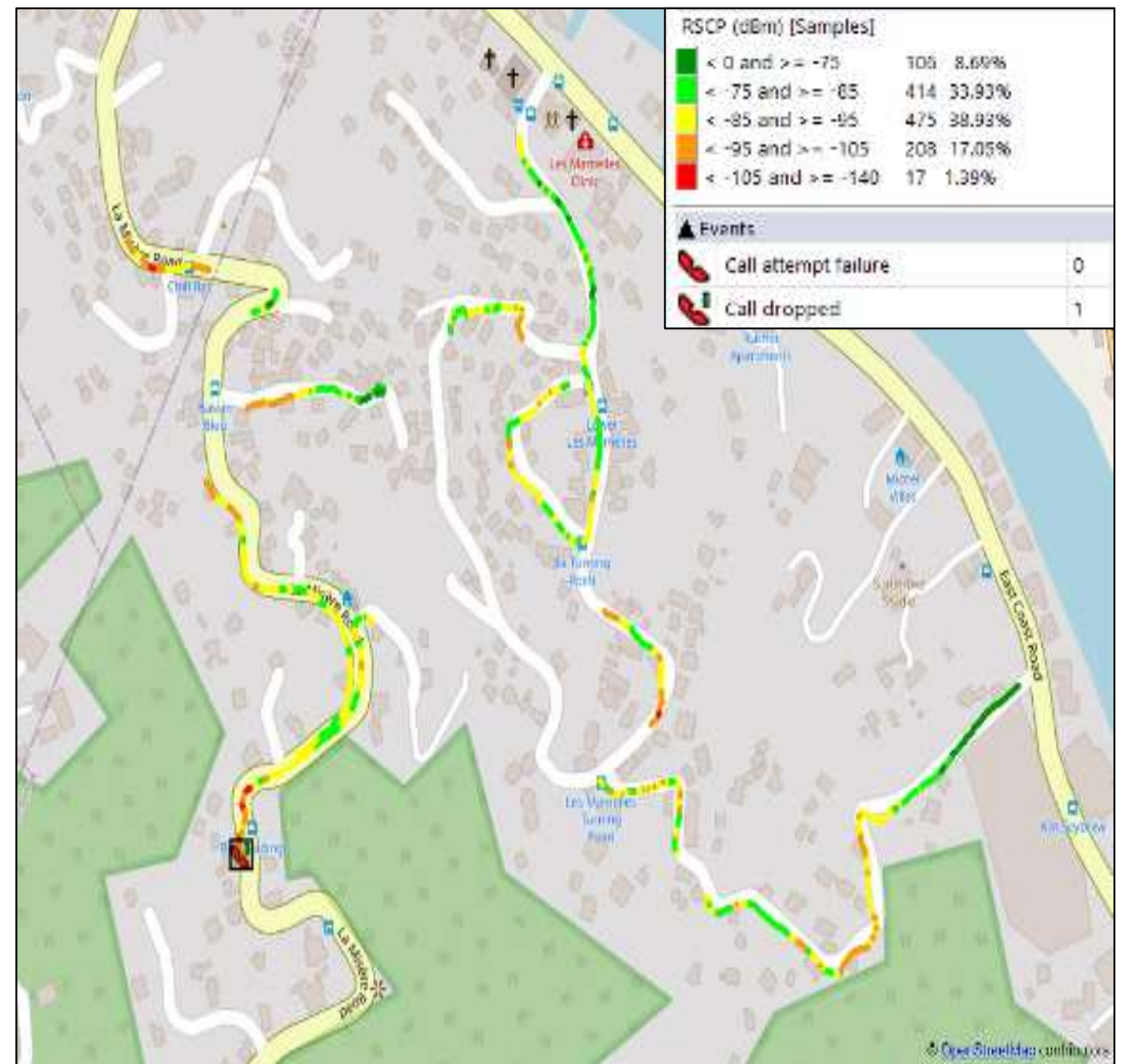




## Airtel LC MO

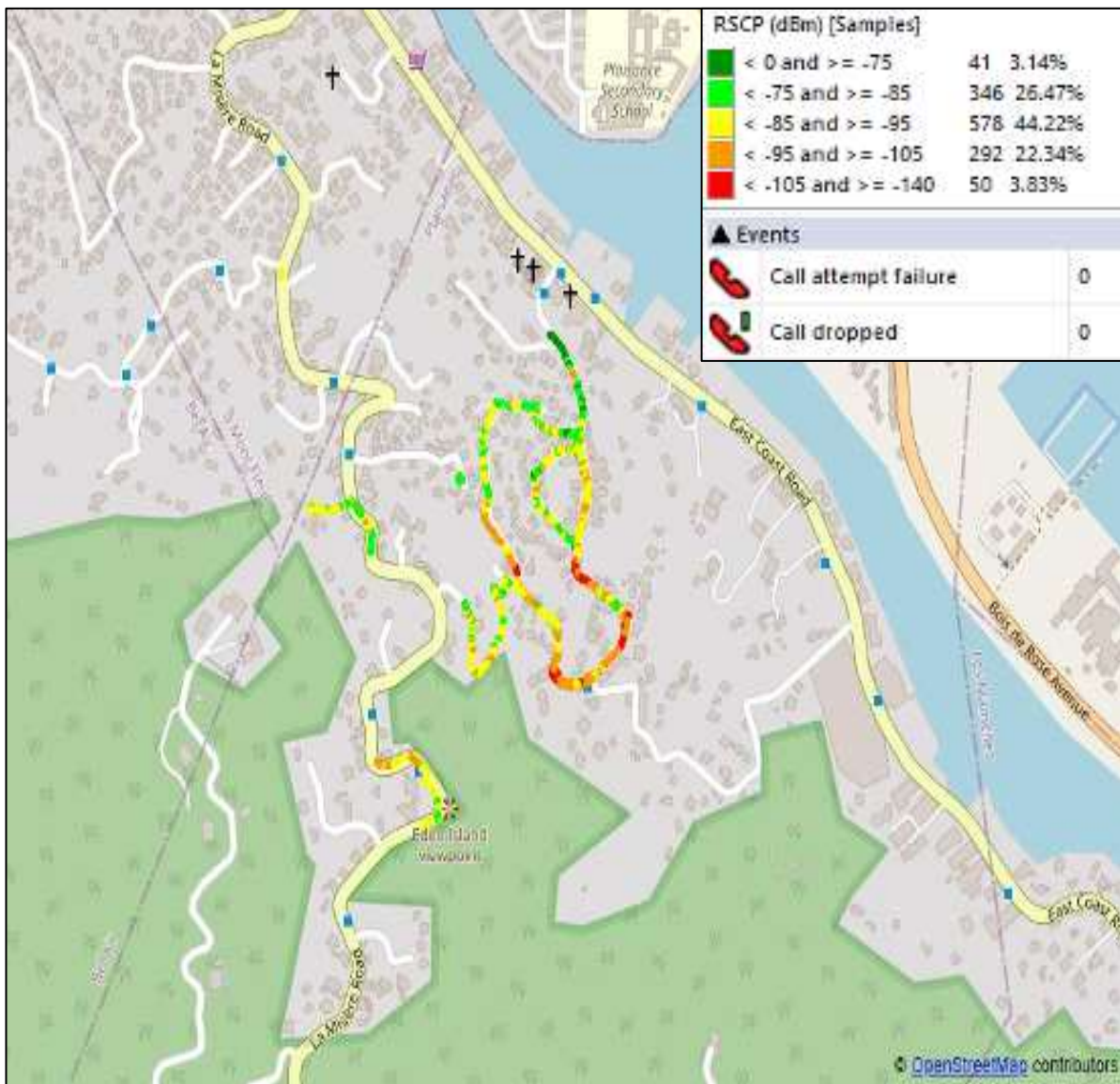


## CWS LC MO

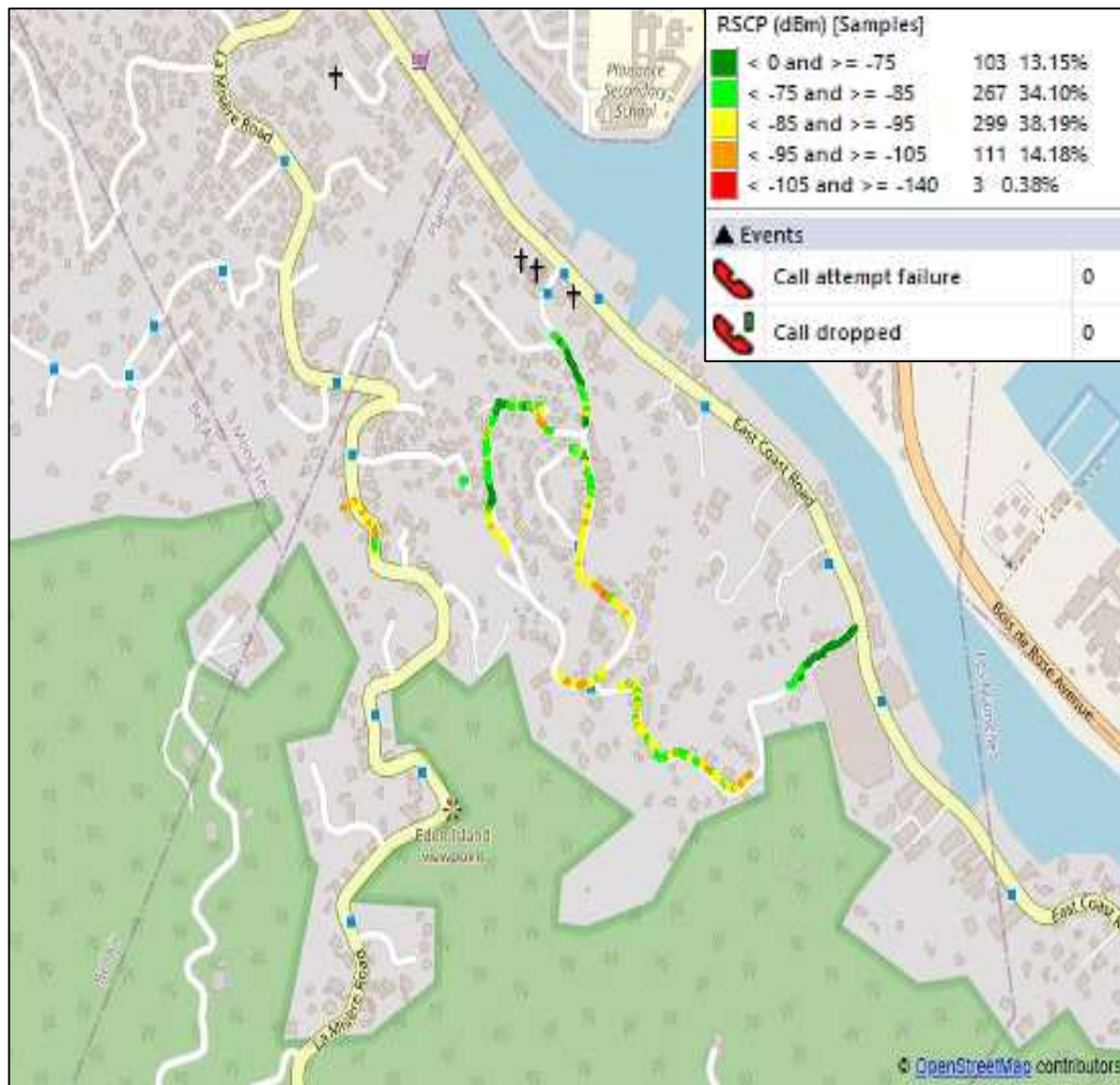




## Airtel LC MO

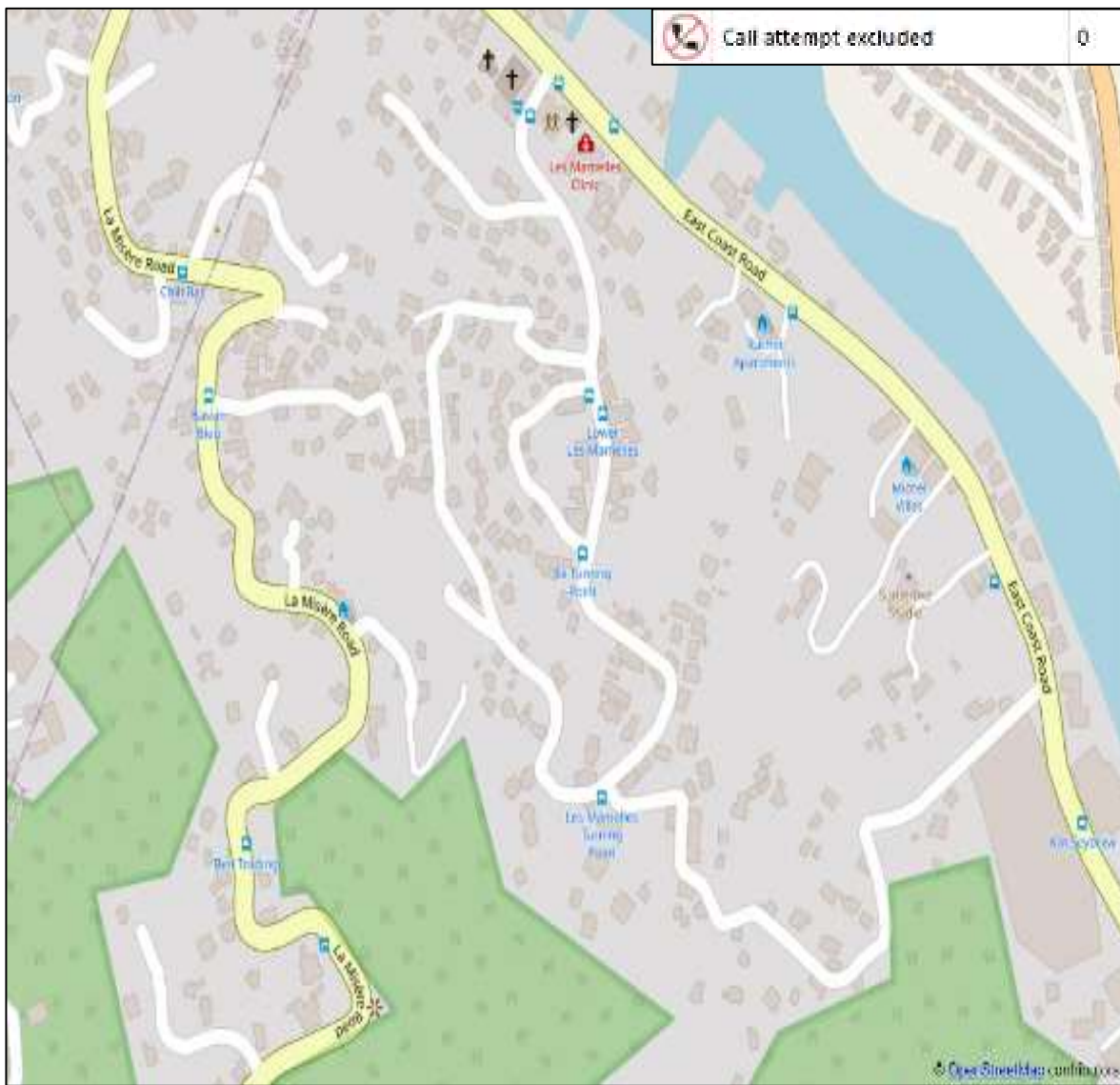


## CWS LC MO

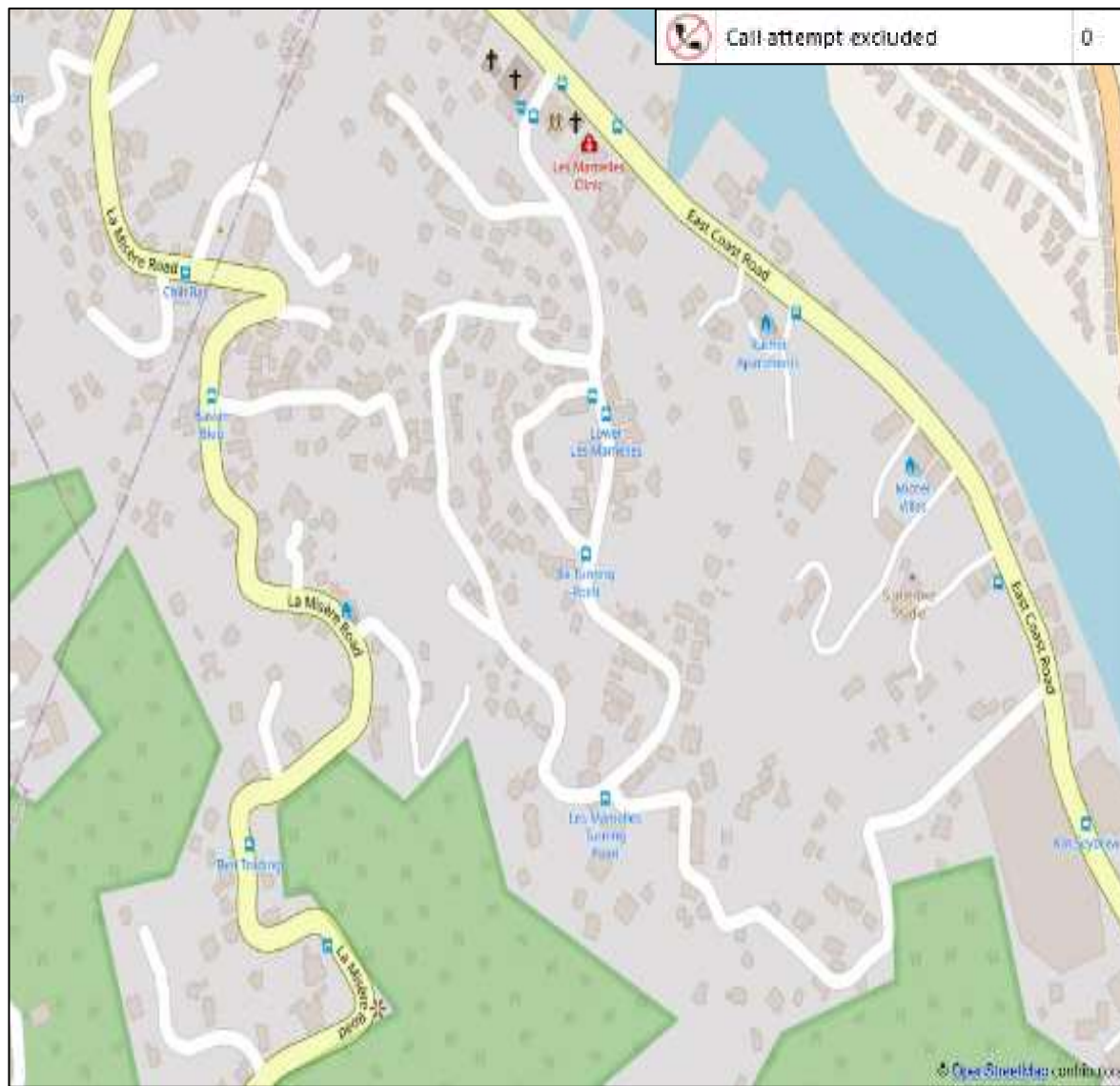


# Phase-1 LONG CALL EXCLUDED EVENTS

## Airtel LC MO



## CWS LC MO



## Airtel LC MO

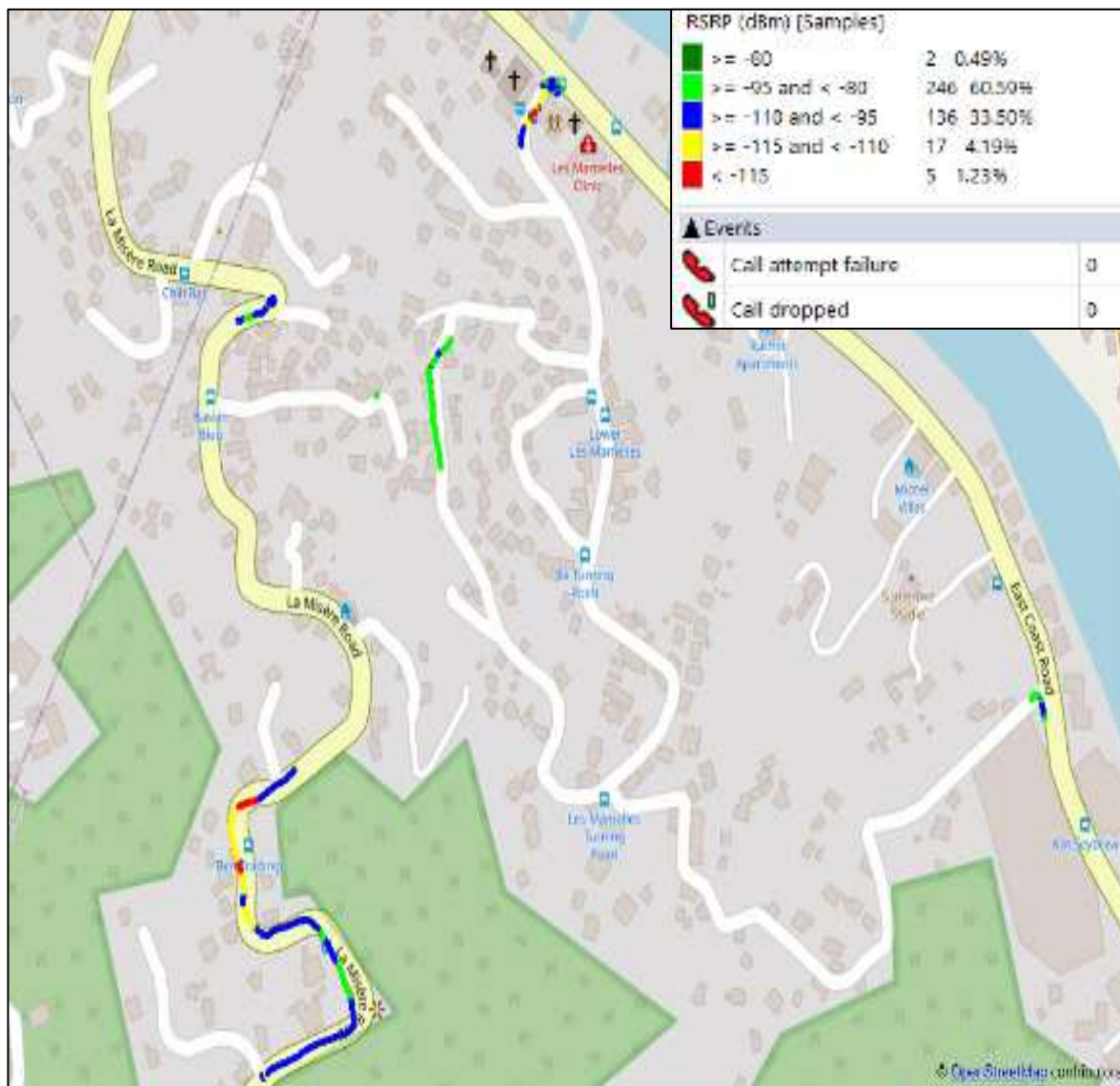


## CWS LC MO

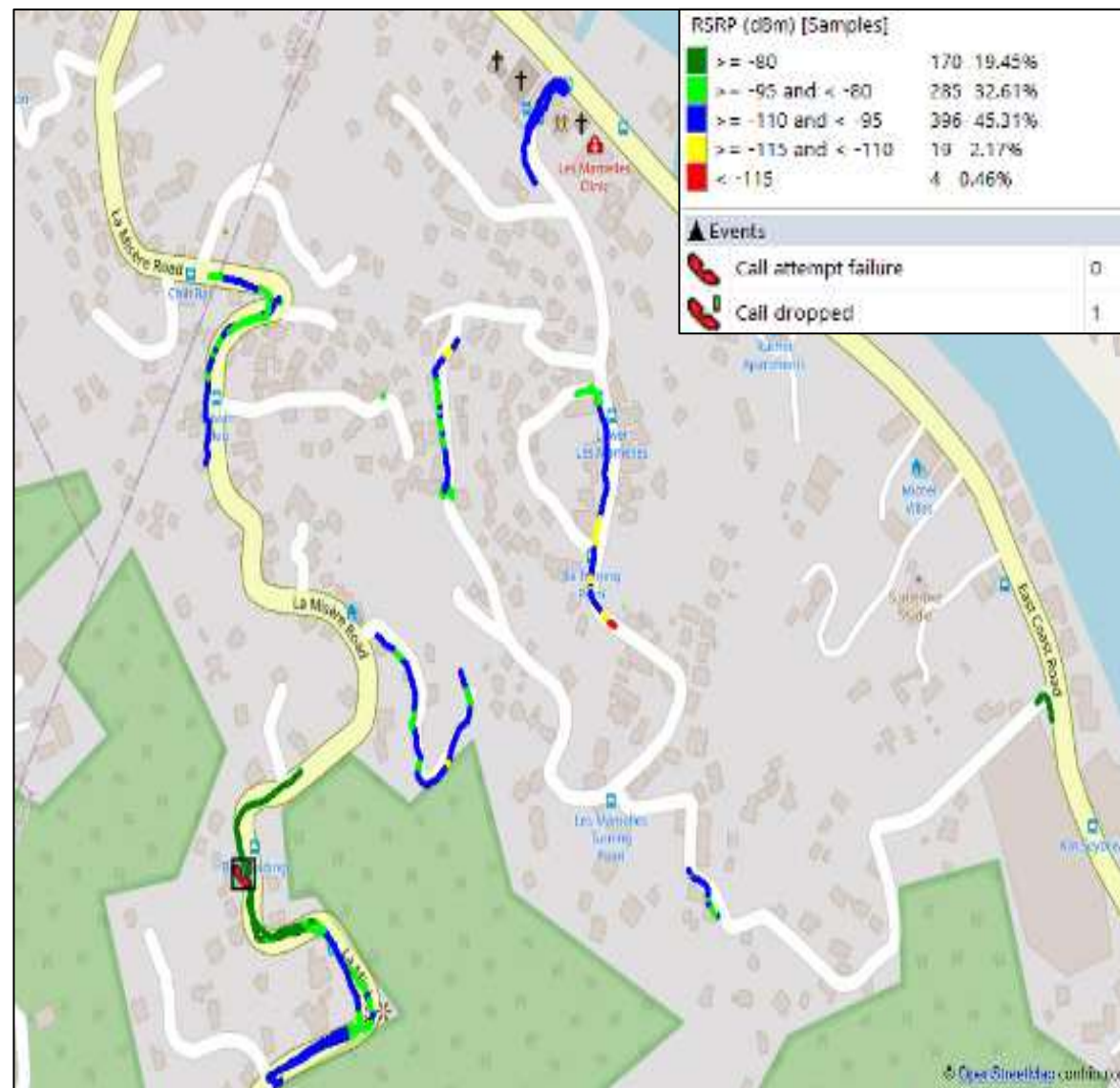




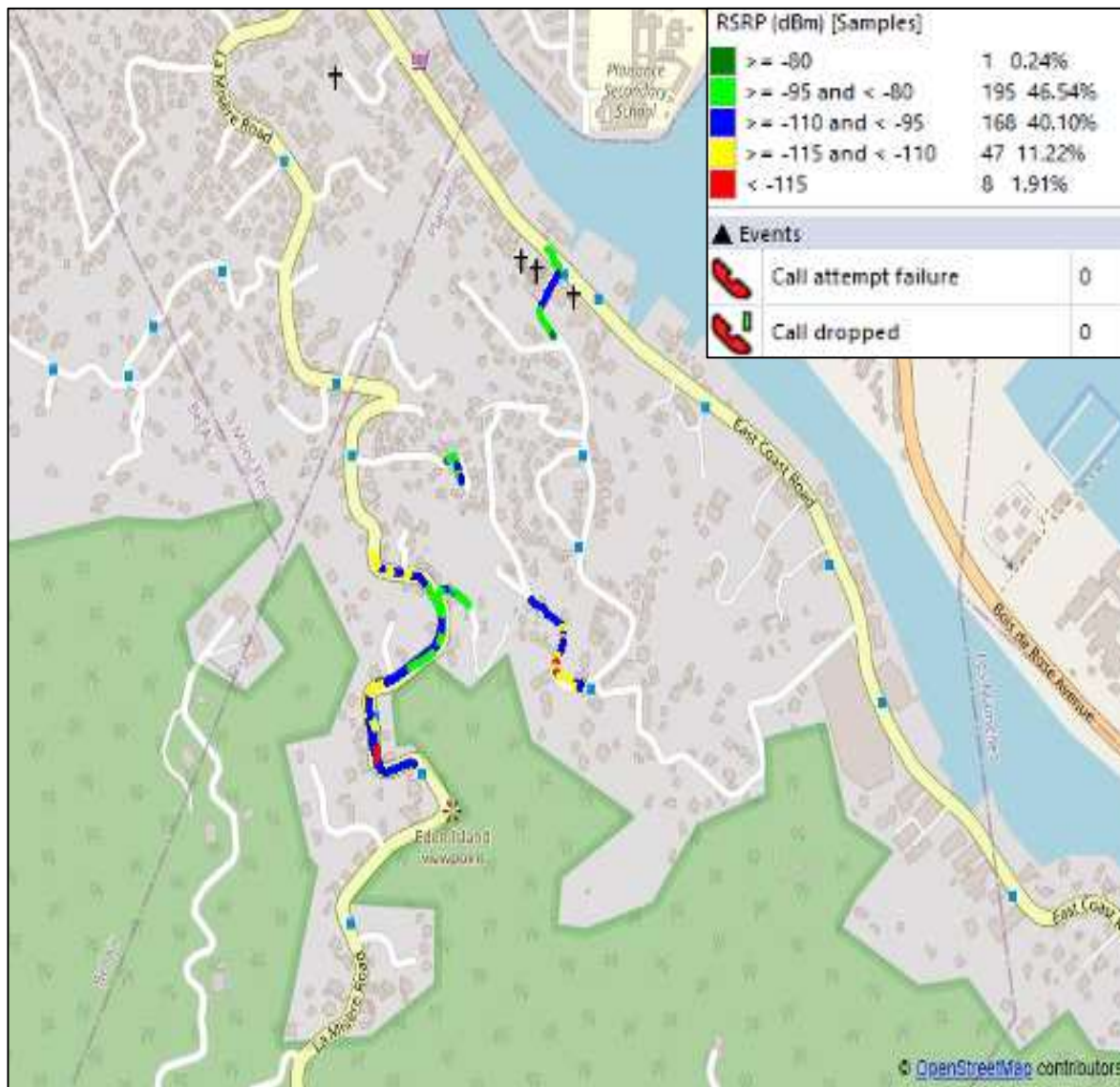
## Airtel LC MO



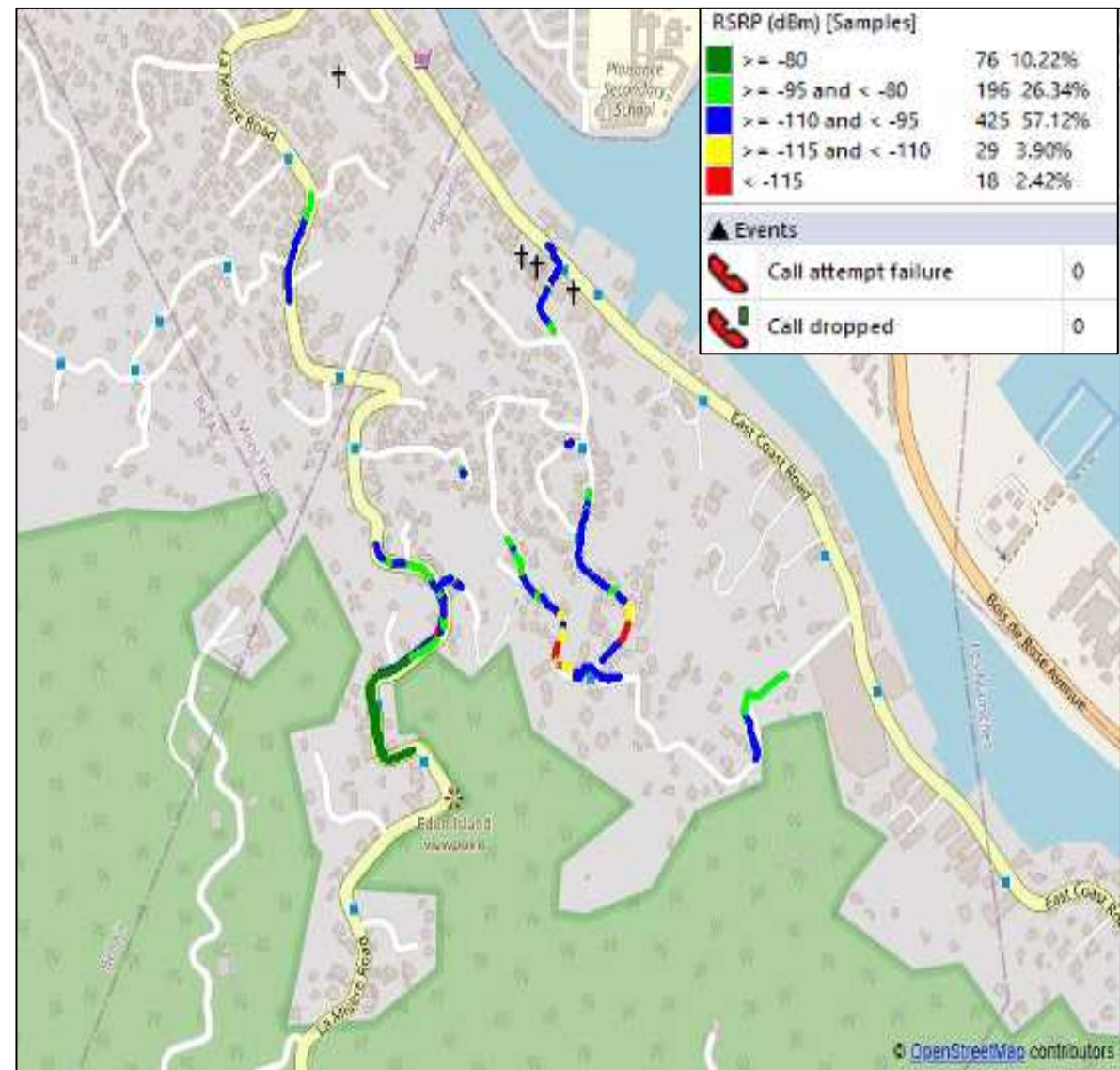
## CWS LC MO



## Airtel LC MO



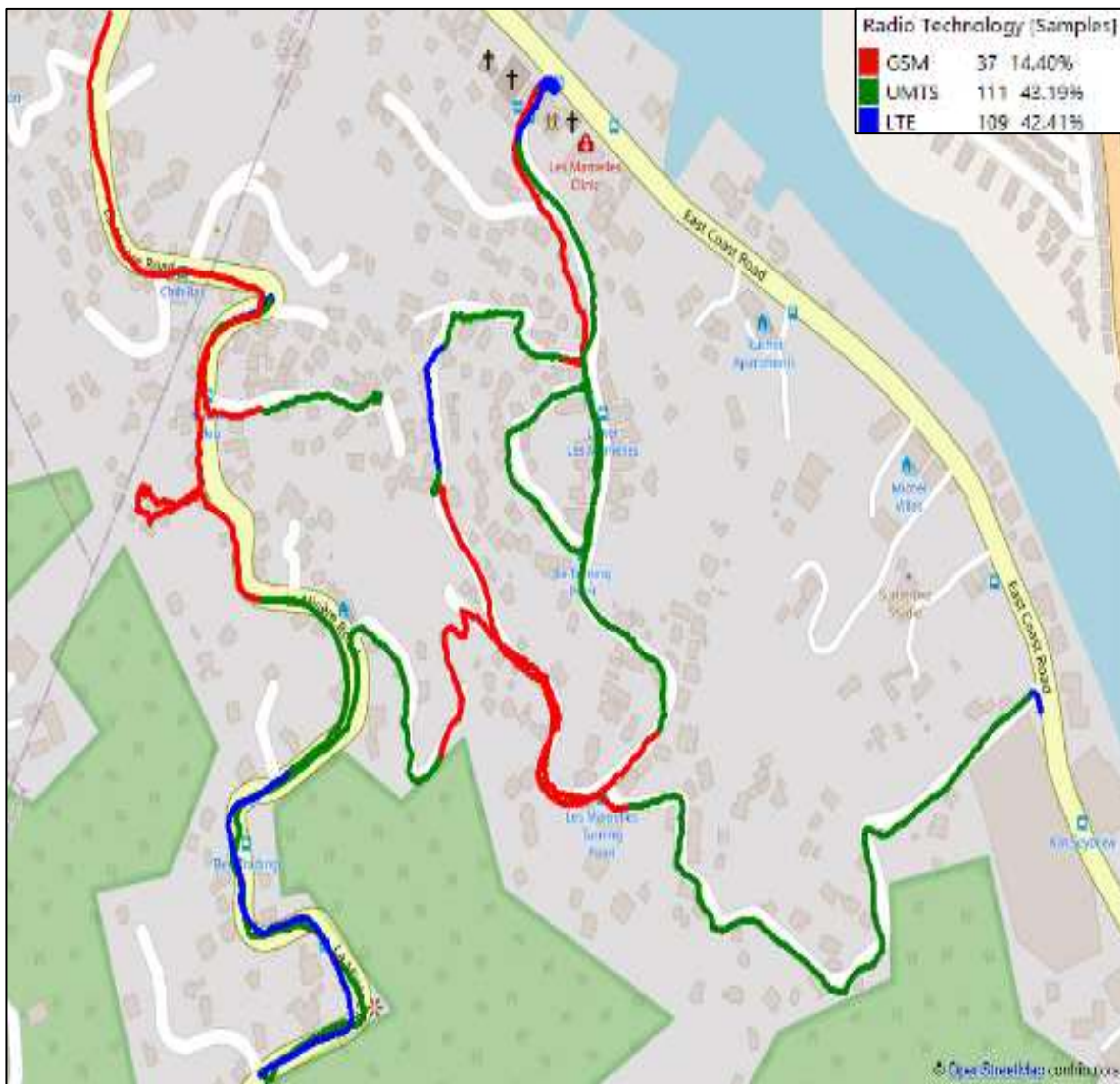
## CWS LC MO



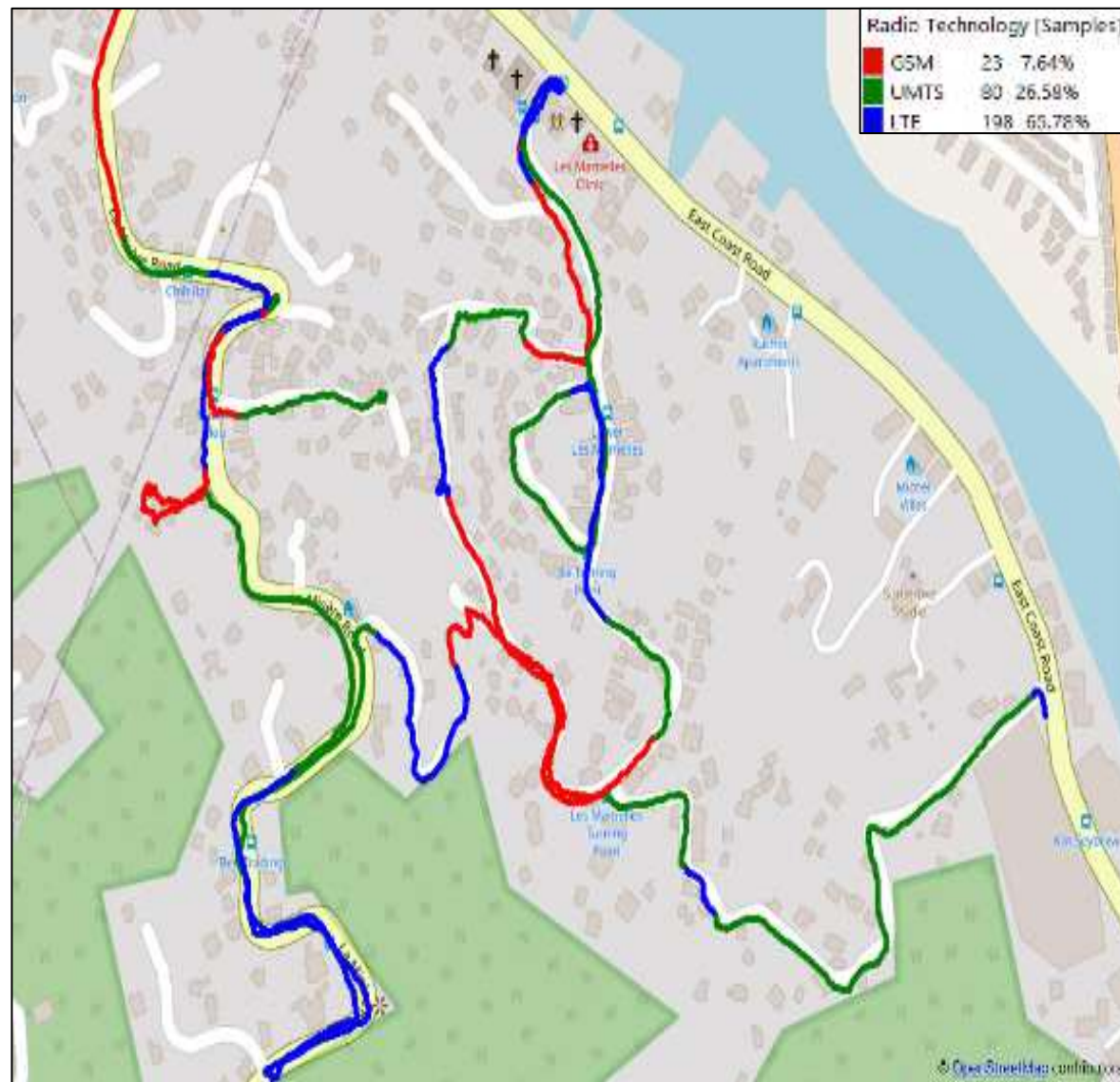
# LONG CALL DRIVE PLOTS



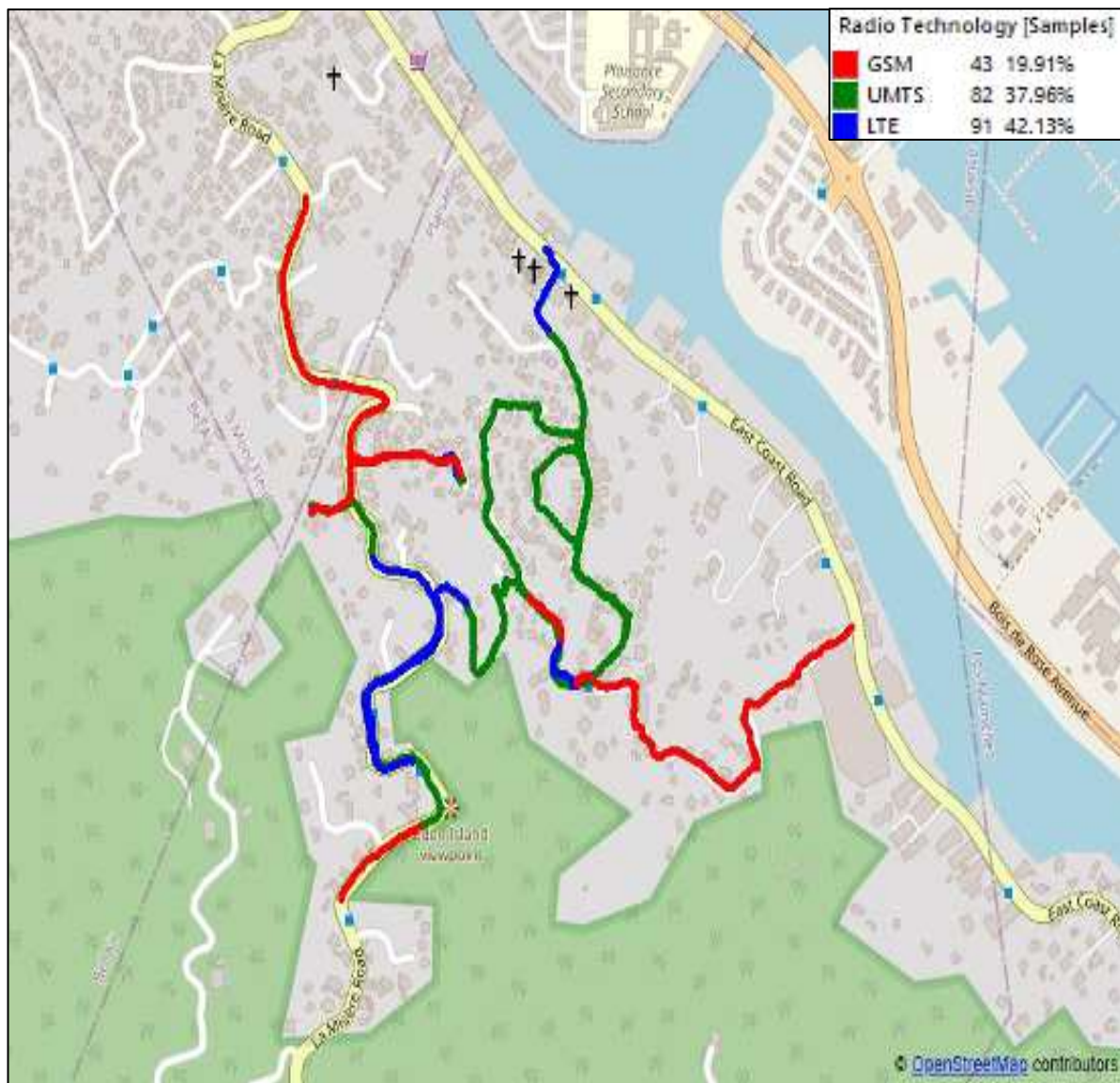
## Airtel LC MO



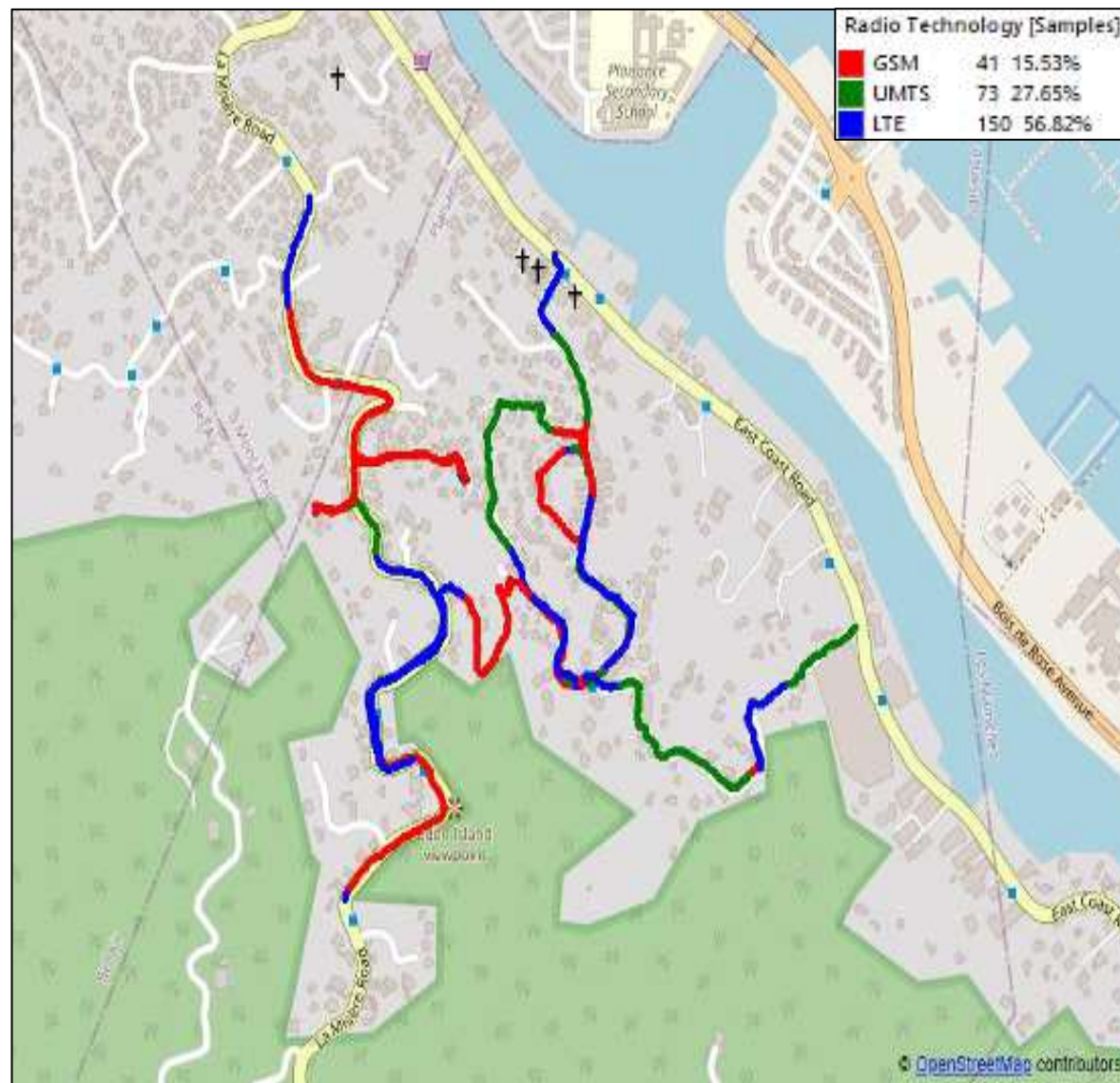
## CWS LC MO



## Airtel LC MO

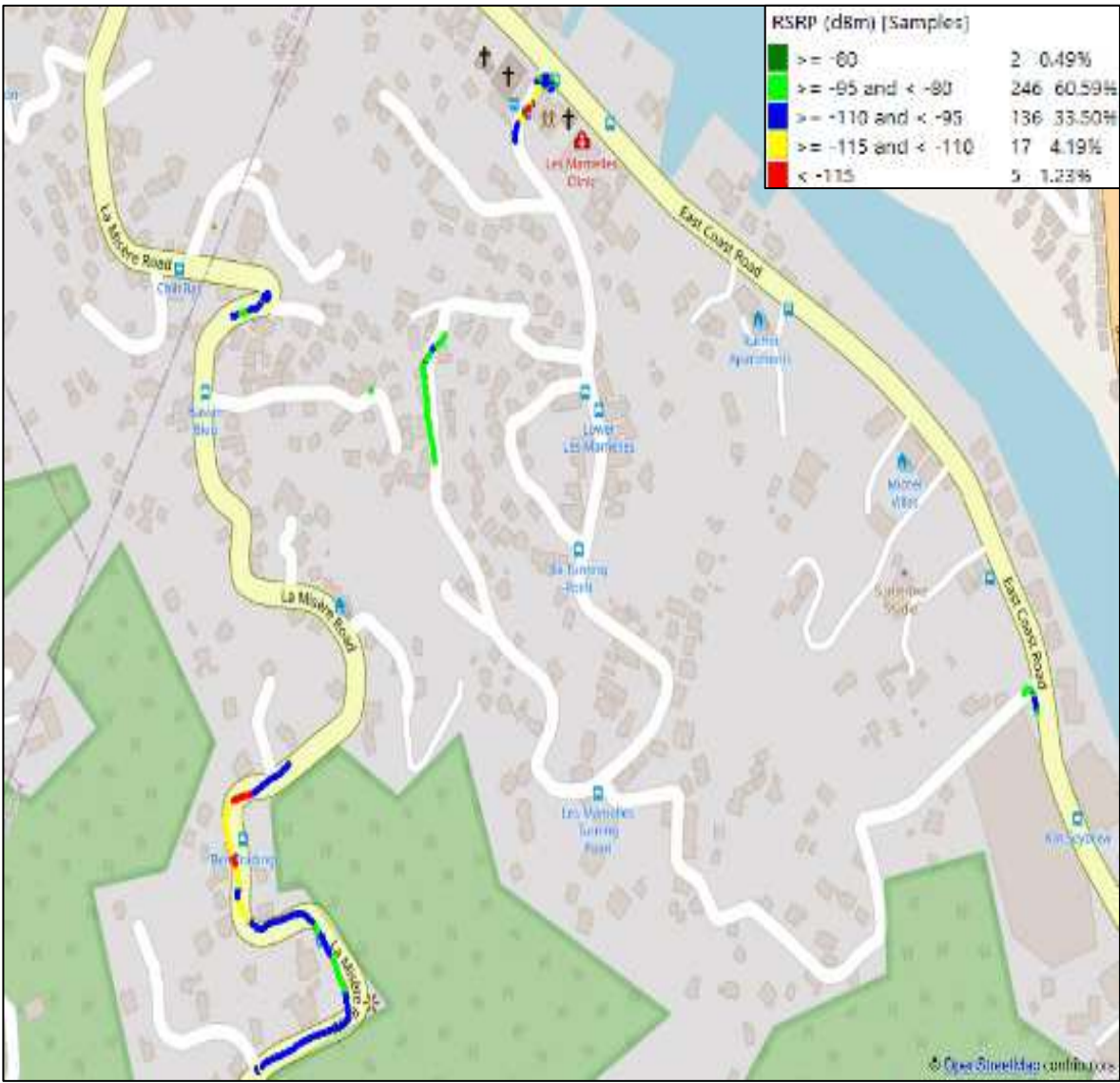


## CWS LC MO

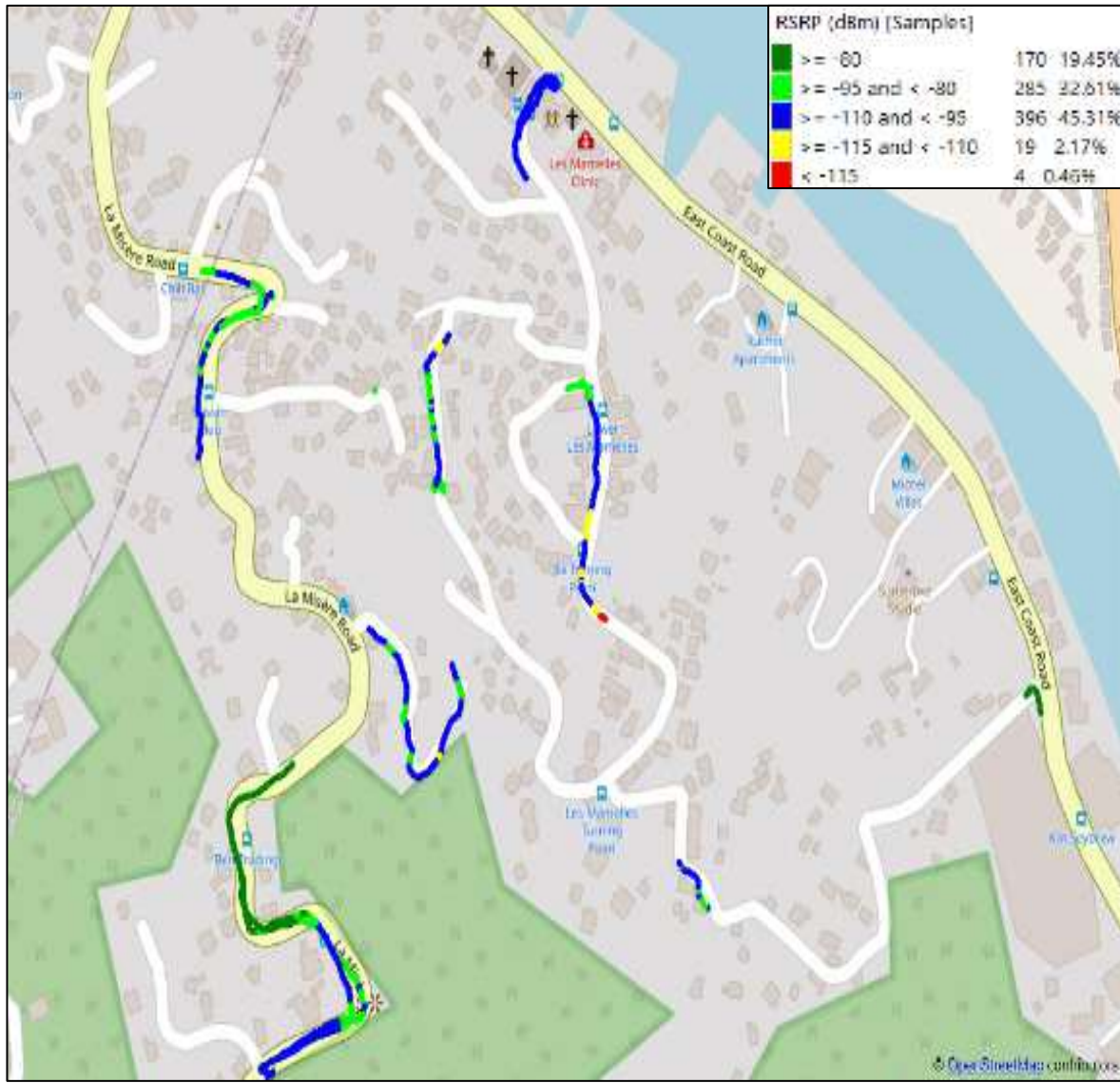




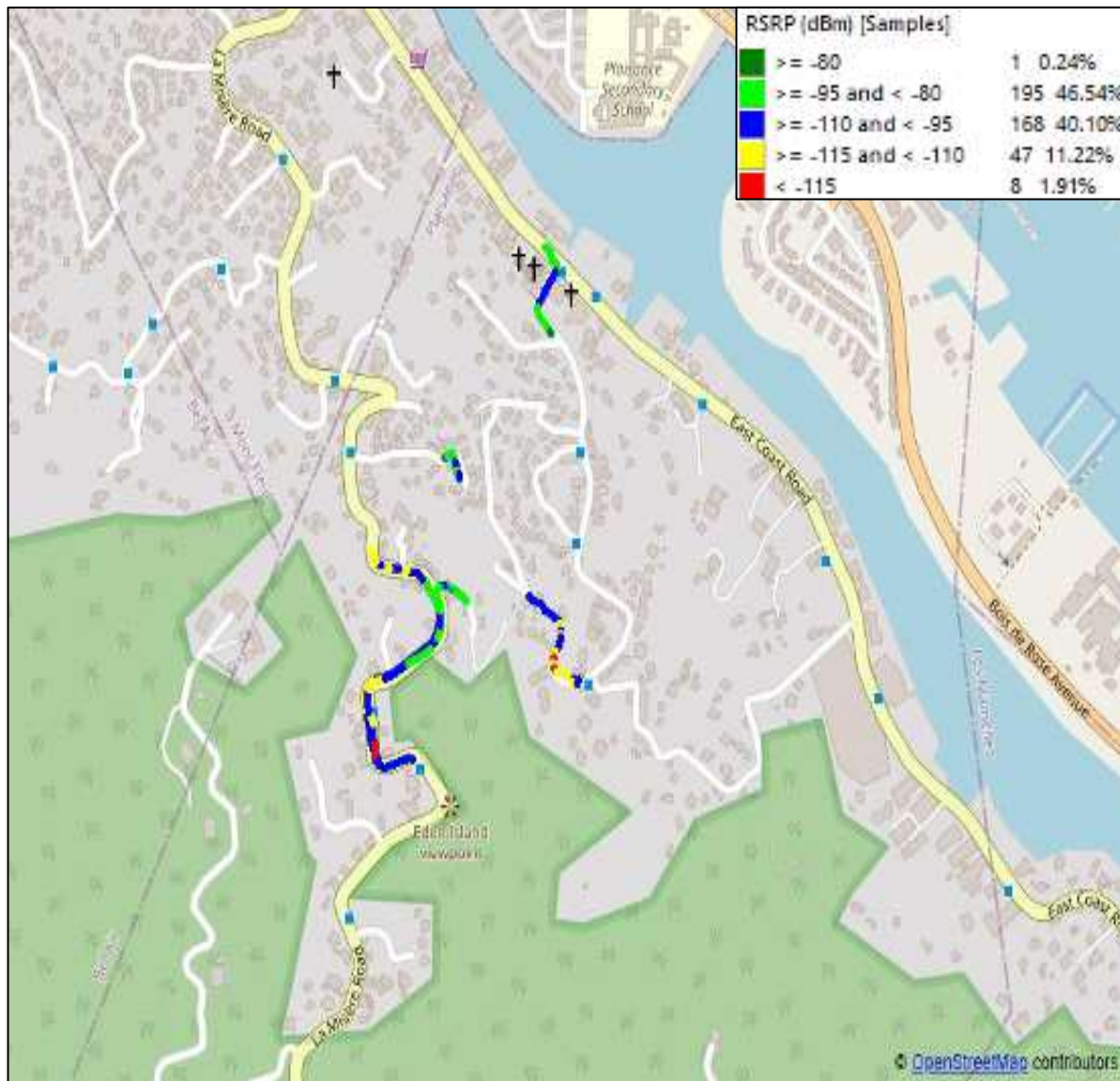
**Airtel LC MO**



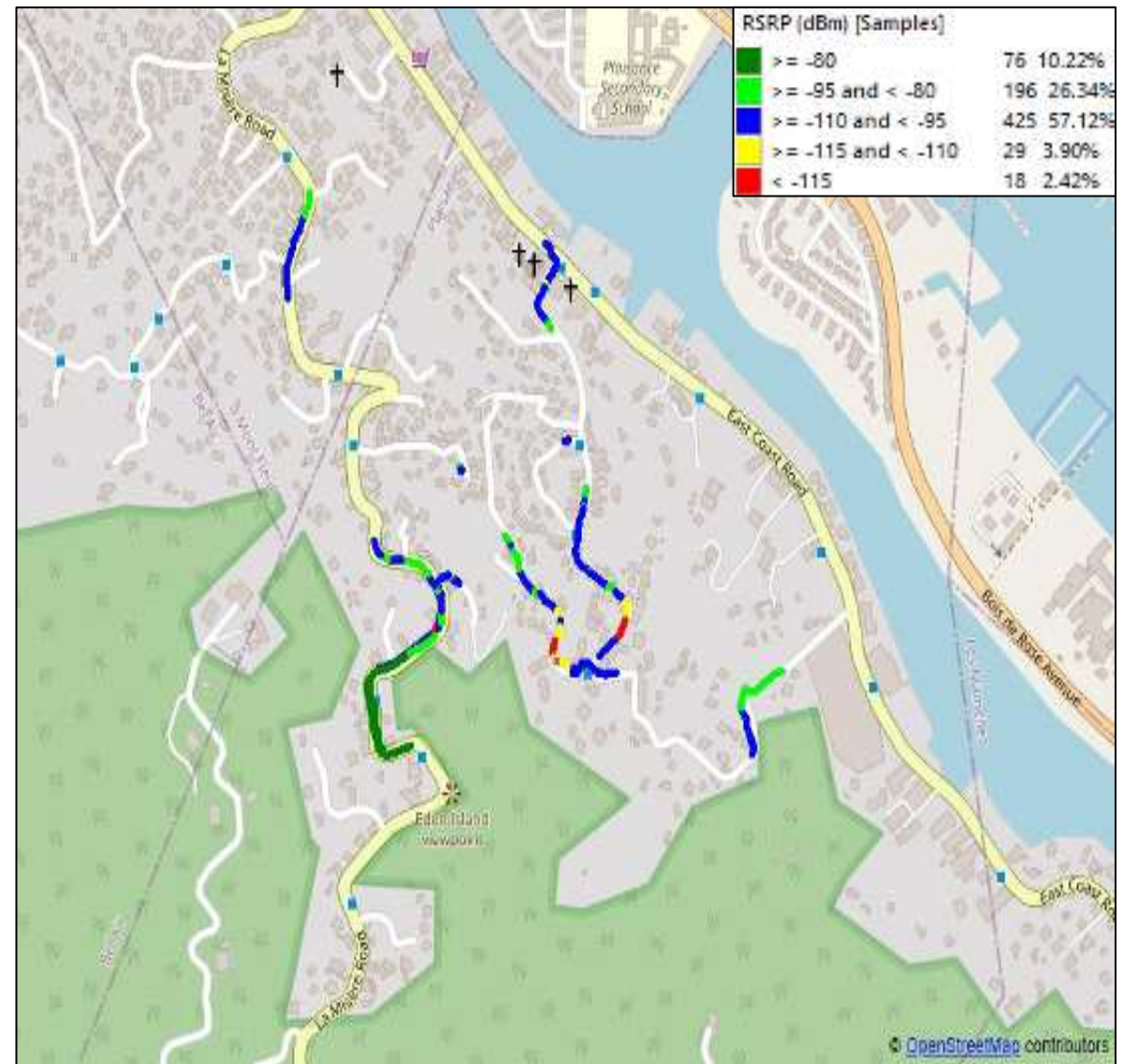
**CWS LC MO**



## Airtel LC MO

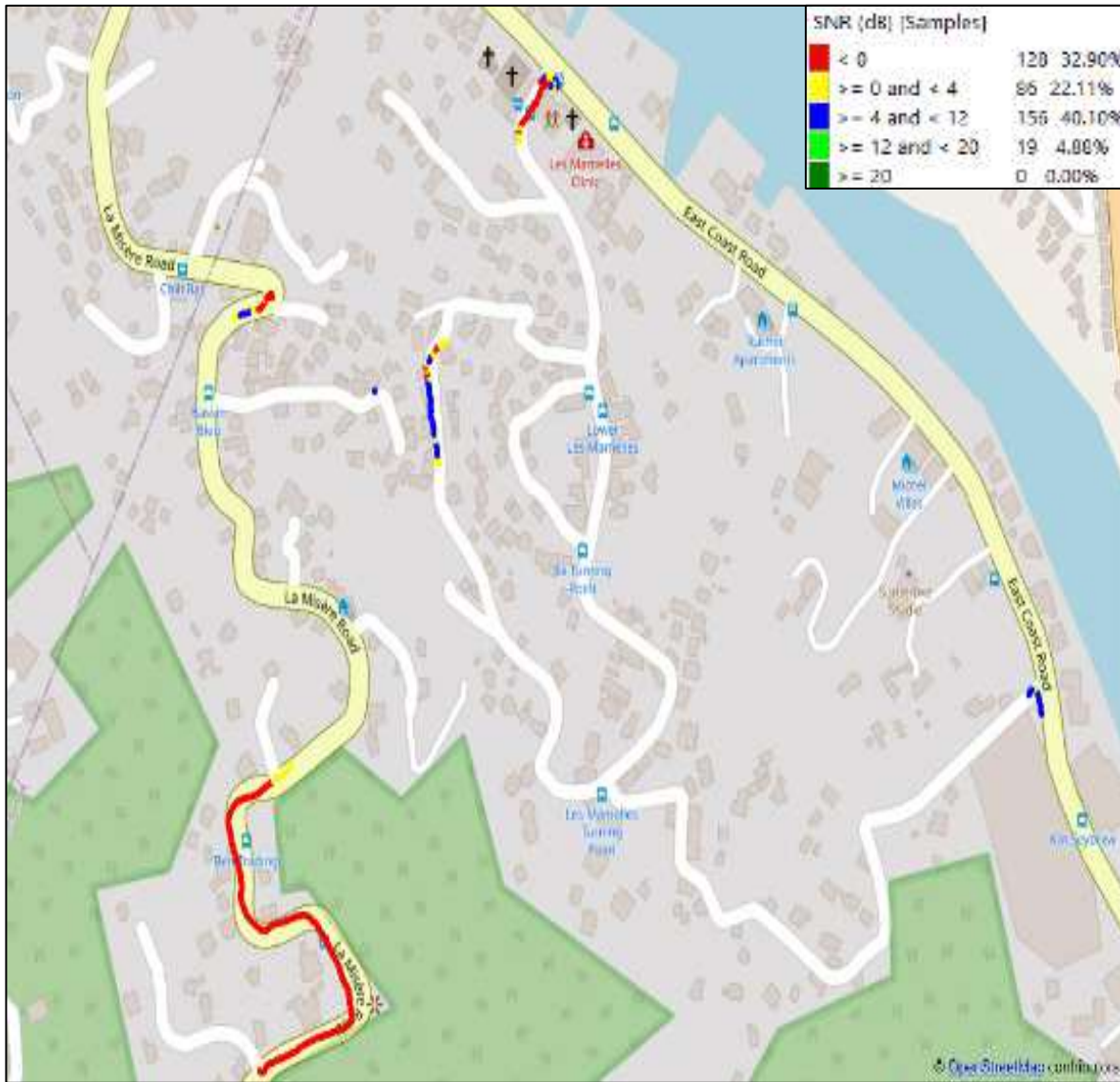


## CWS LC MO

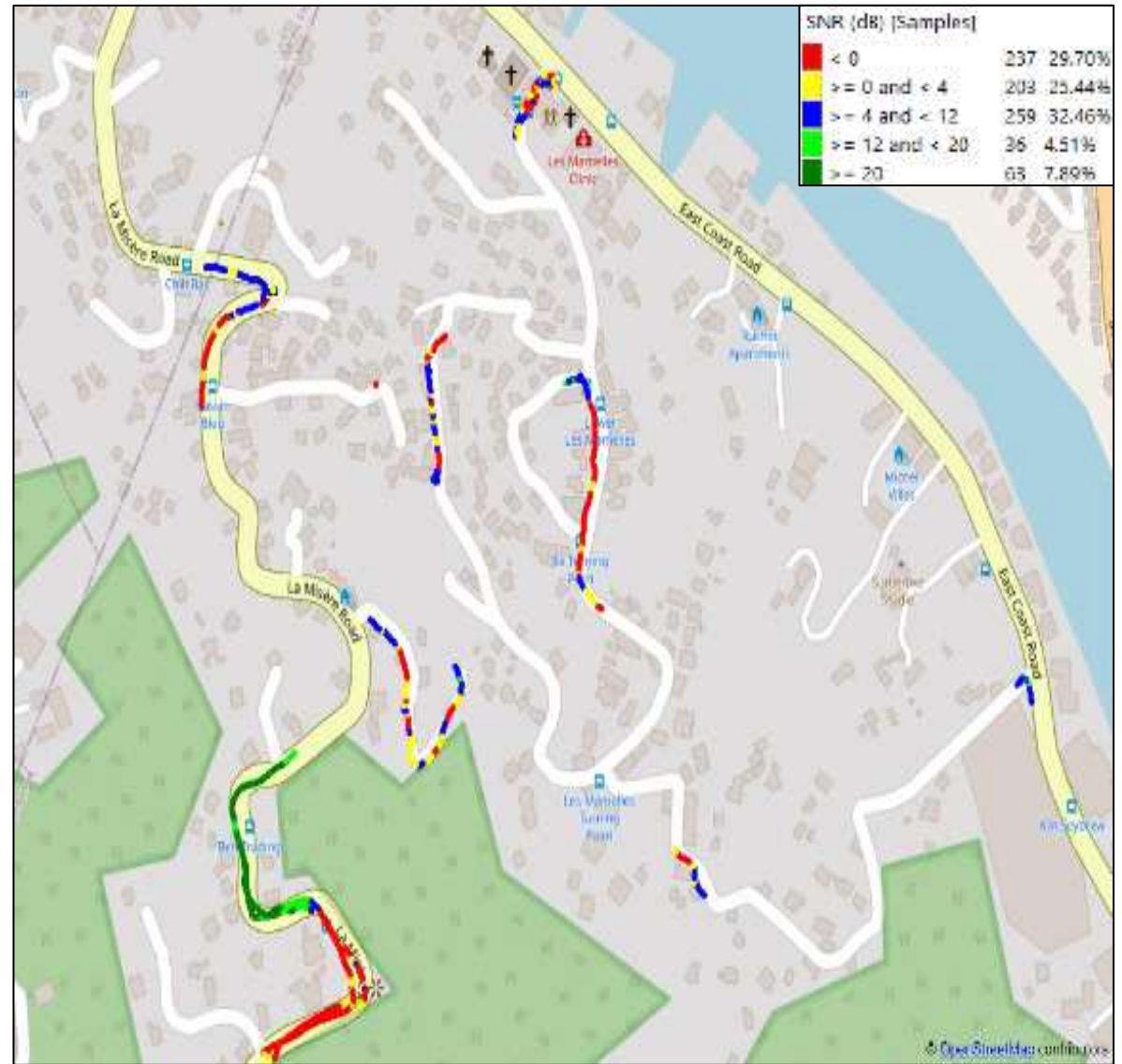




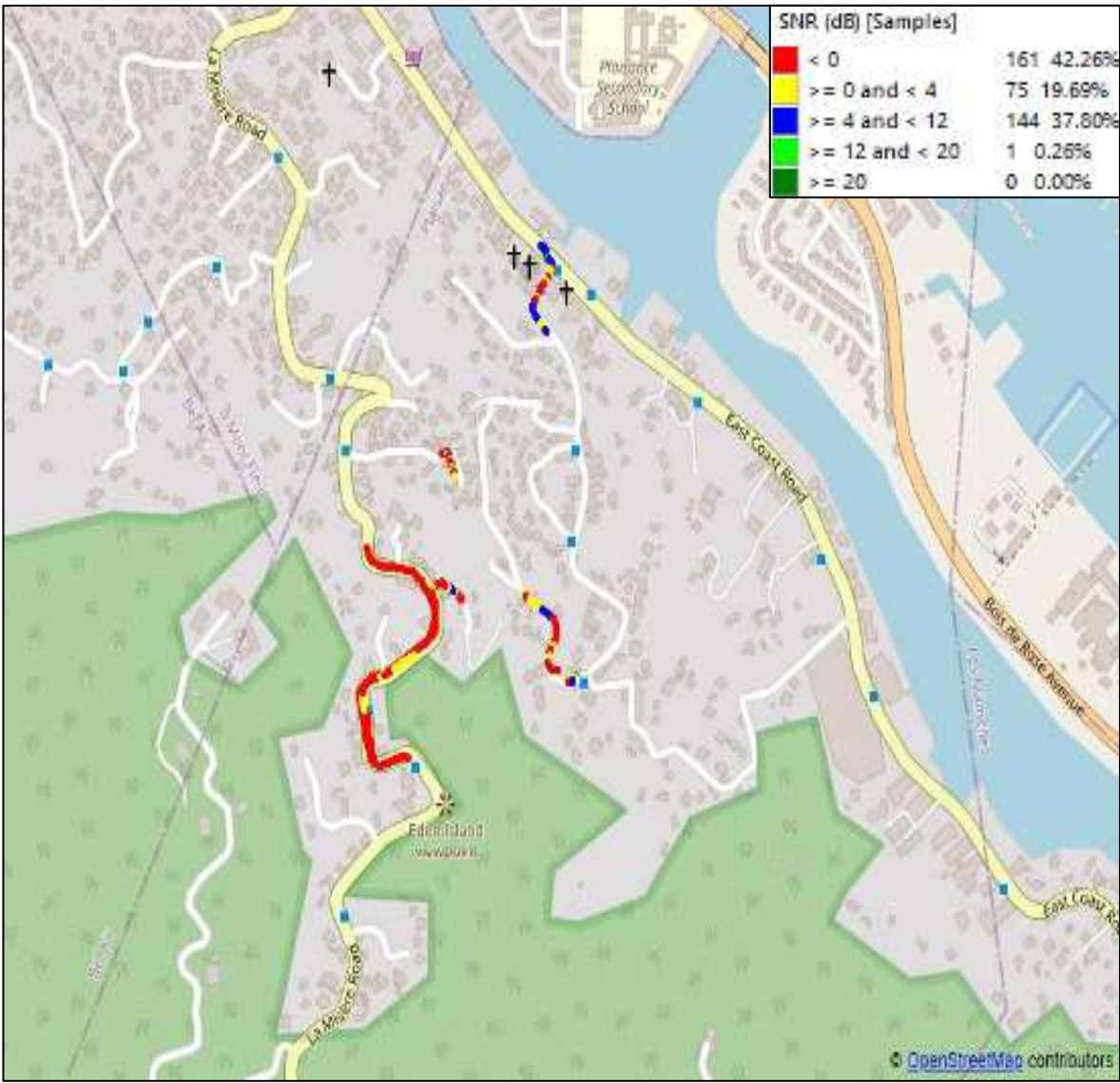
## Airtel LC MO



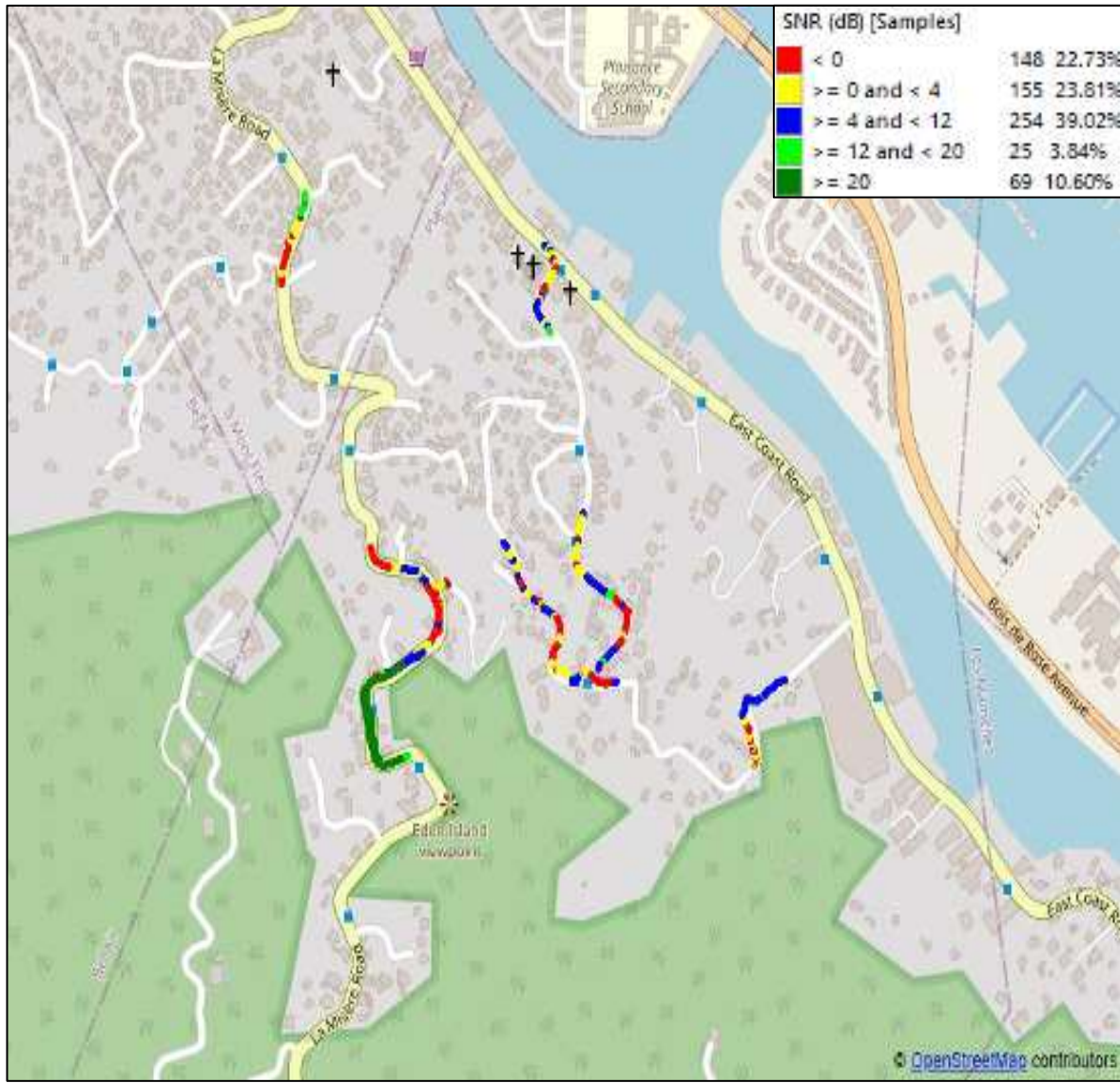
## CWS LC MO



**Airtel LC MO**

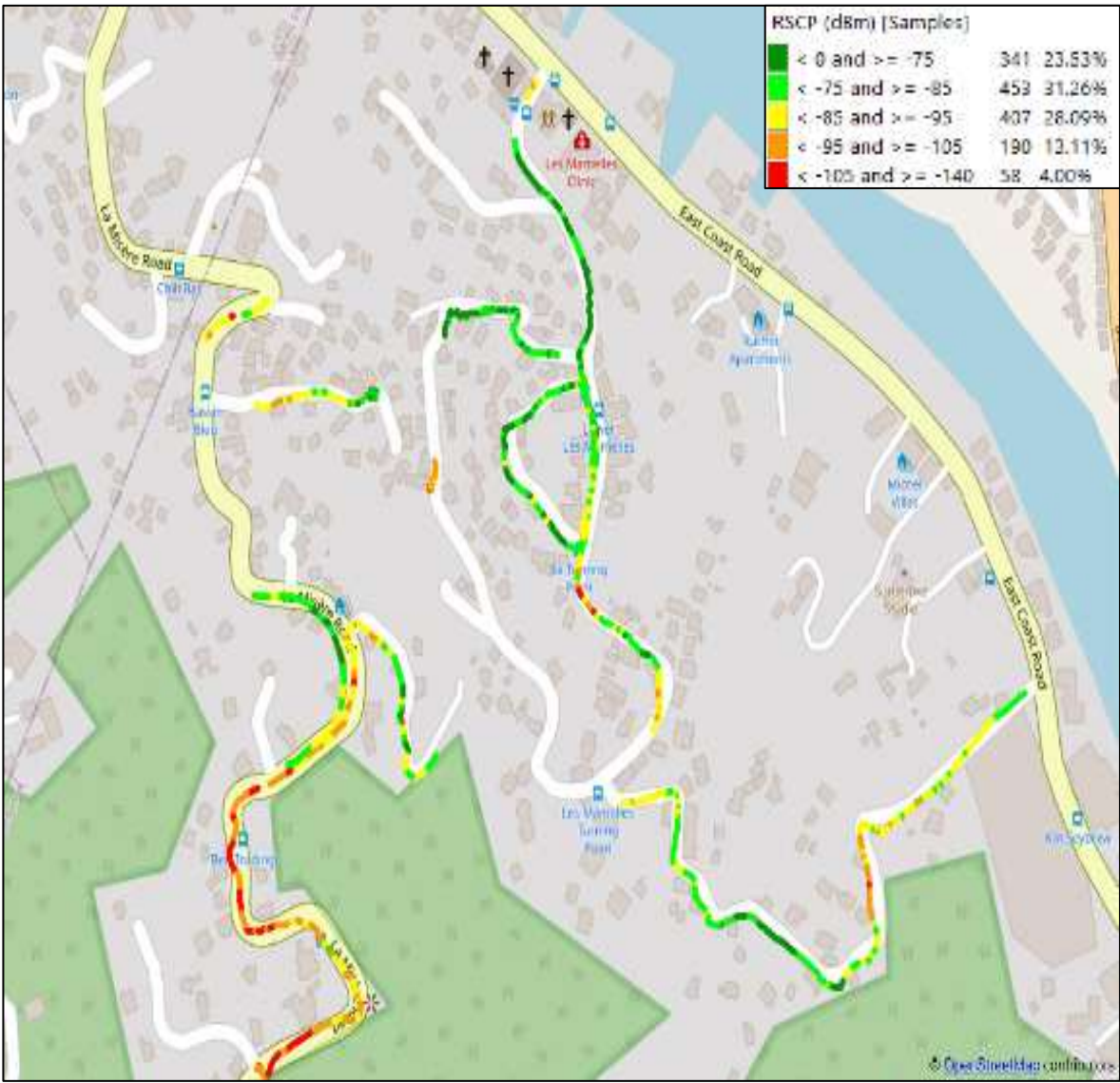


**CWS LC MO**

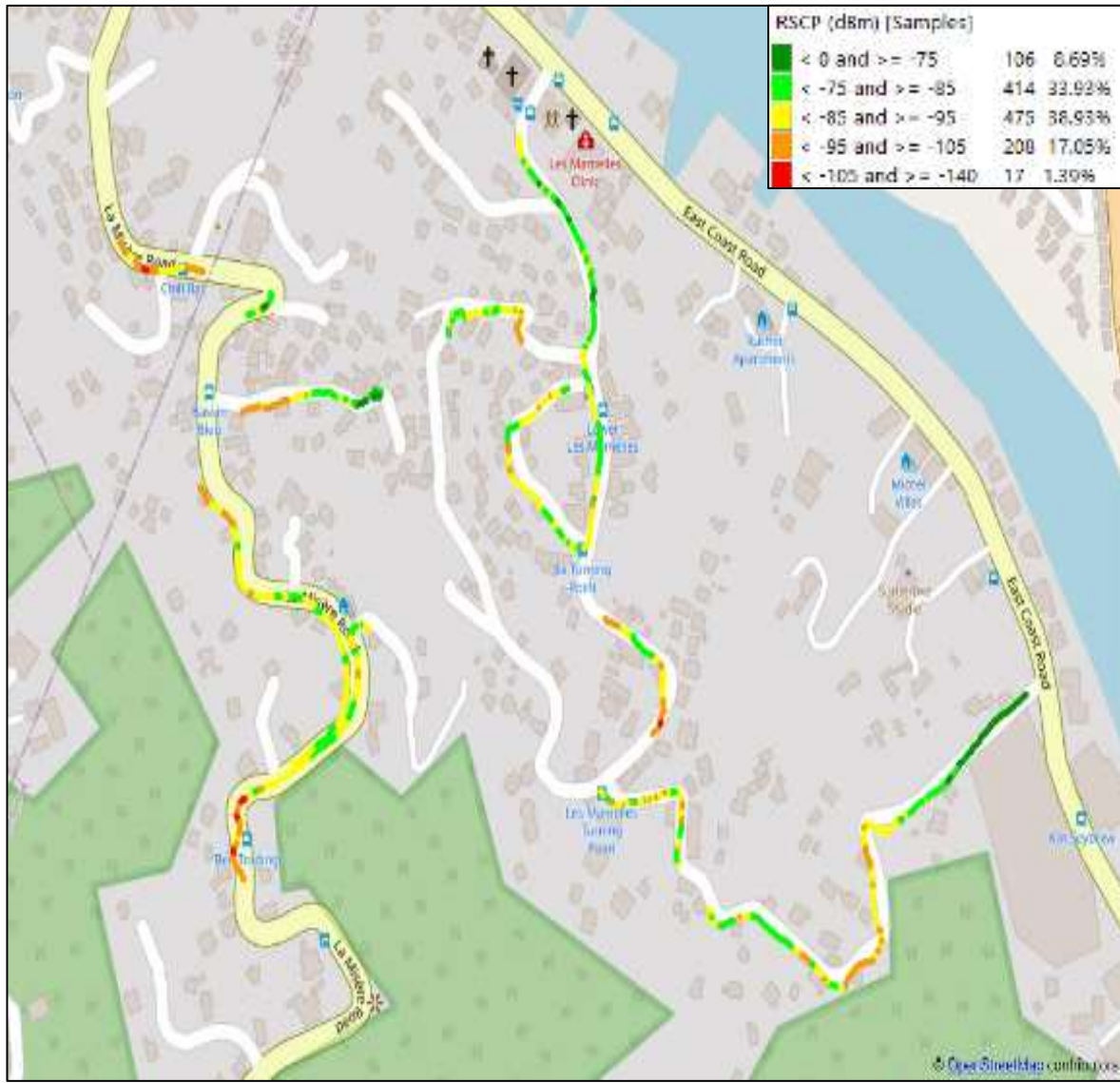




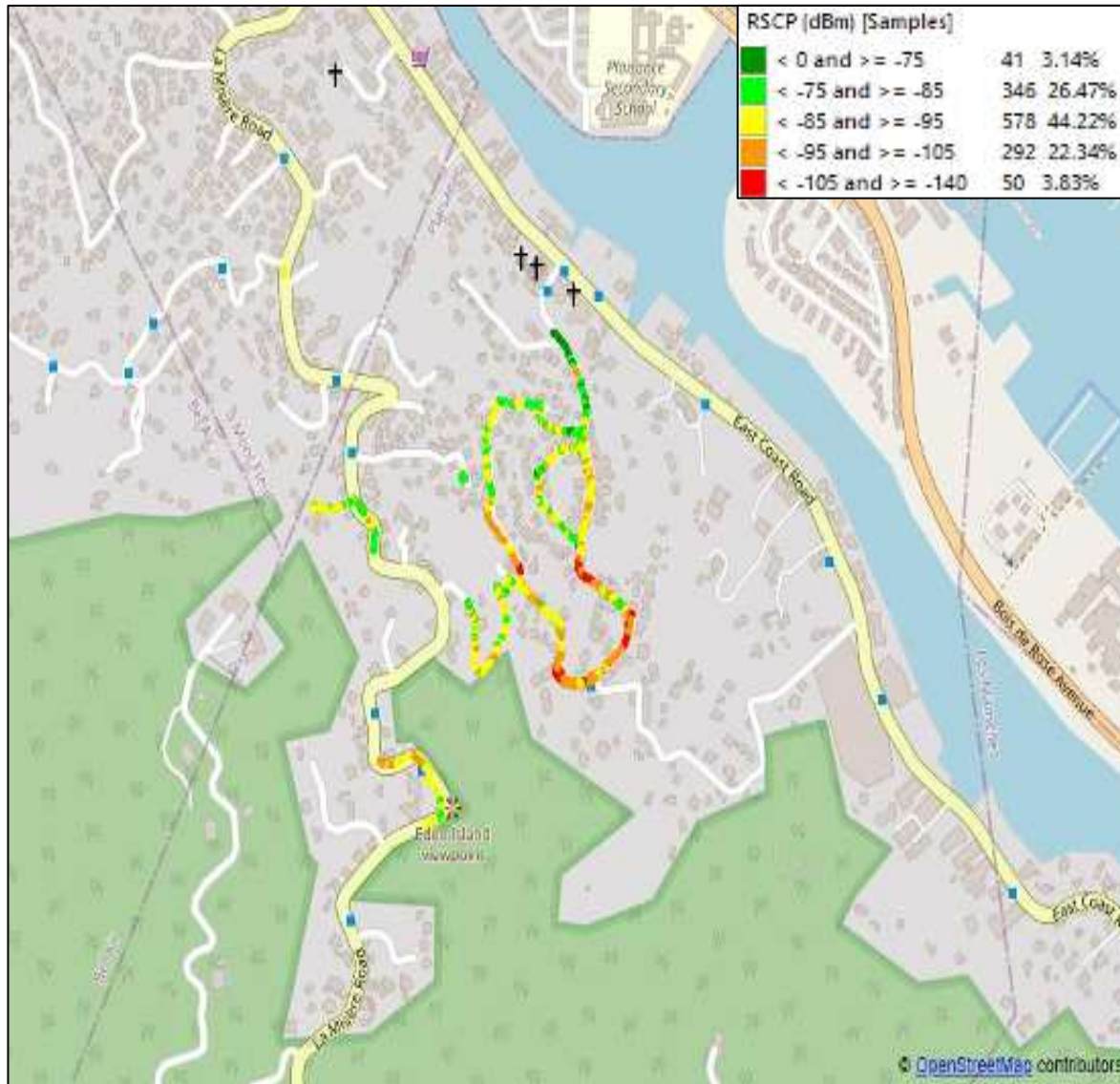
**Airtel LC MO**



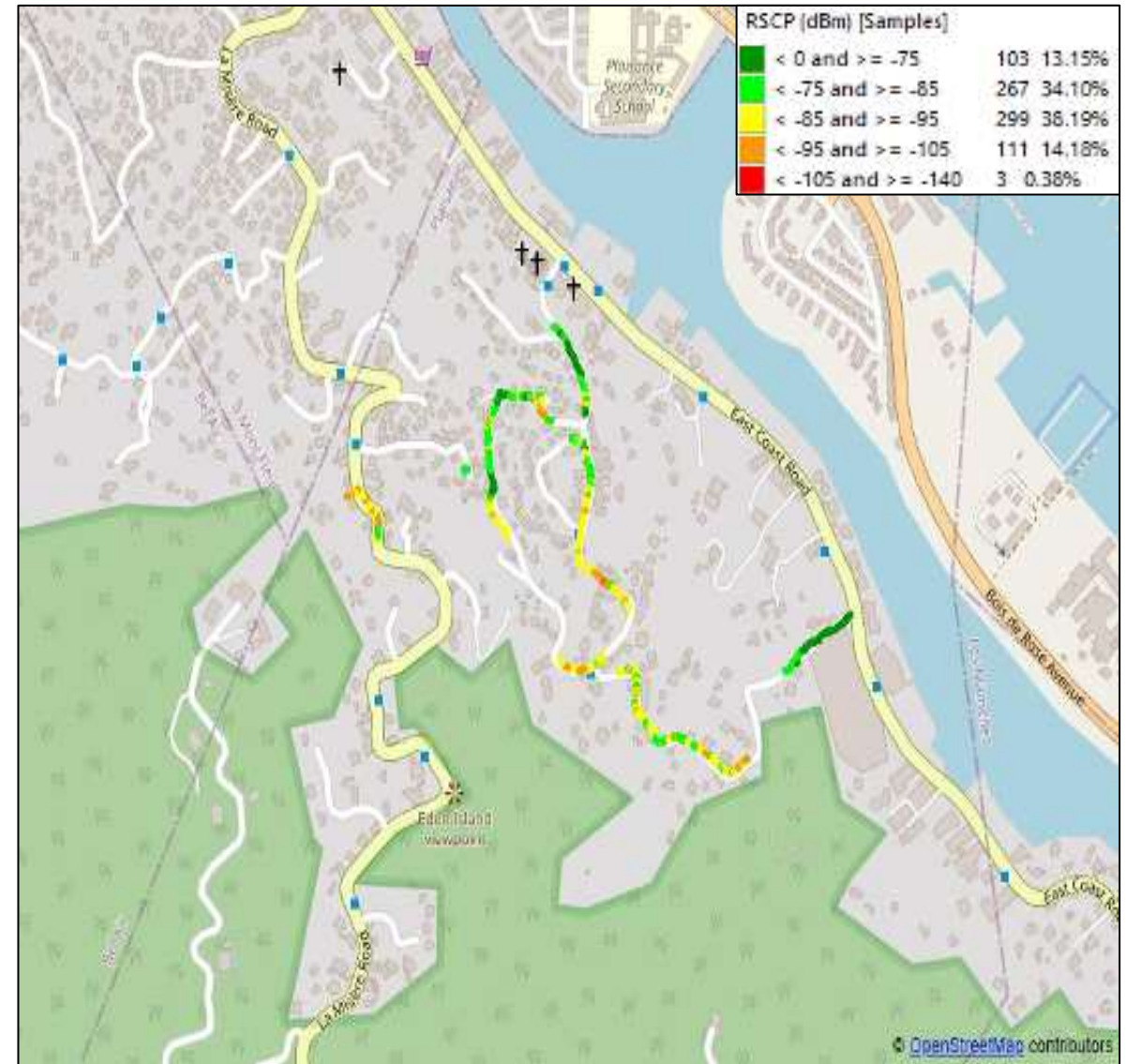
**CWS LC MO**



## Airtel LC MO

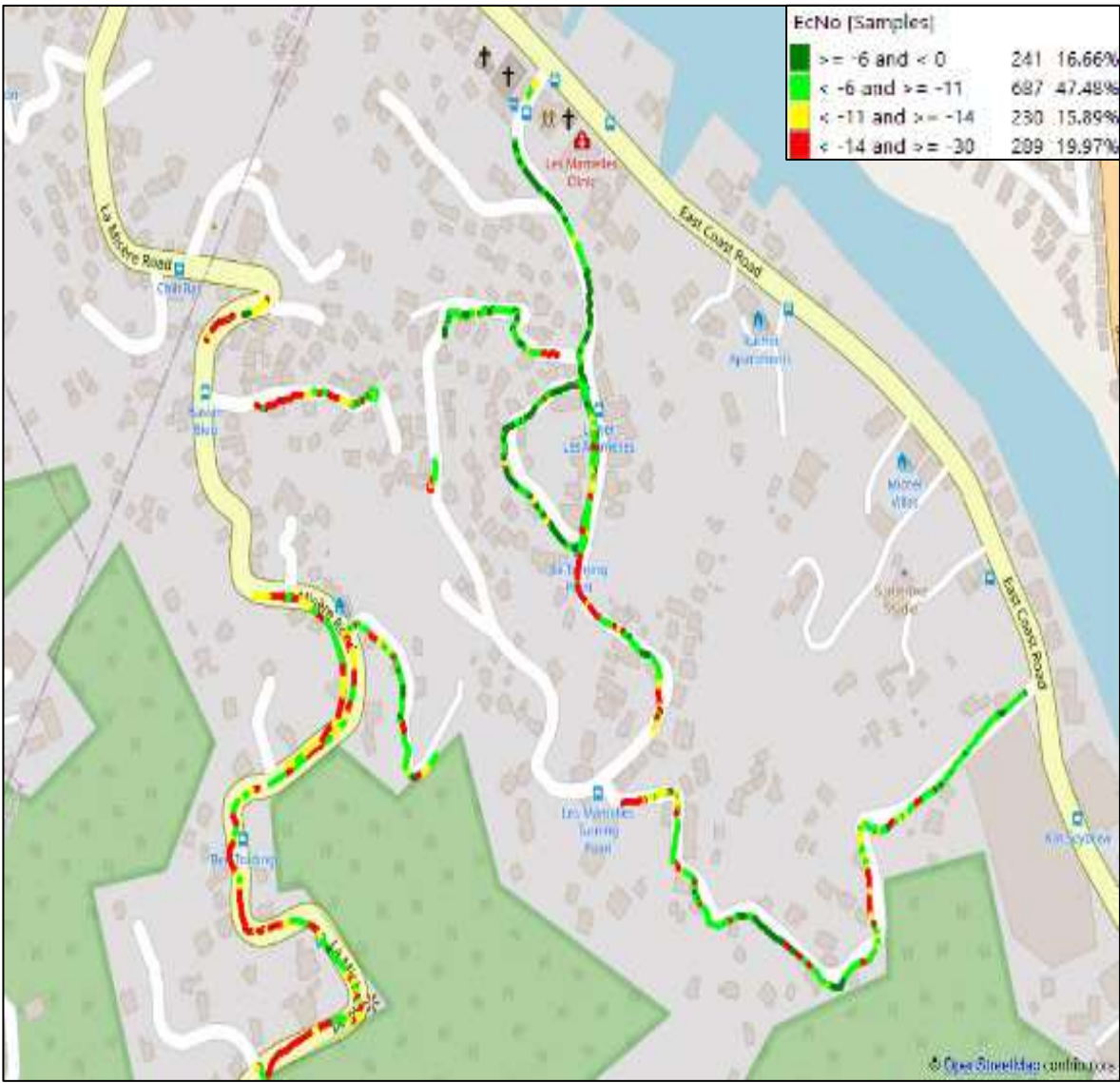


## CWS LC MO

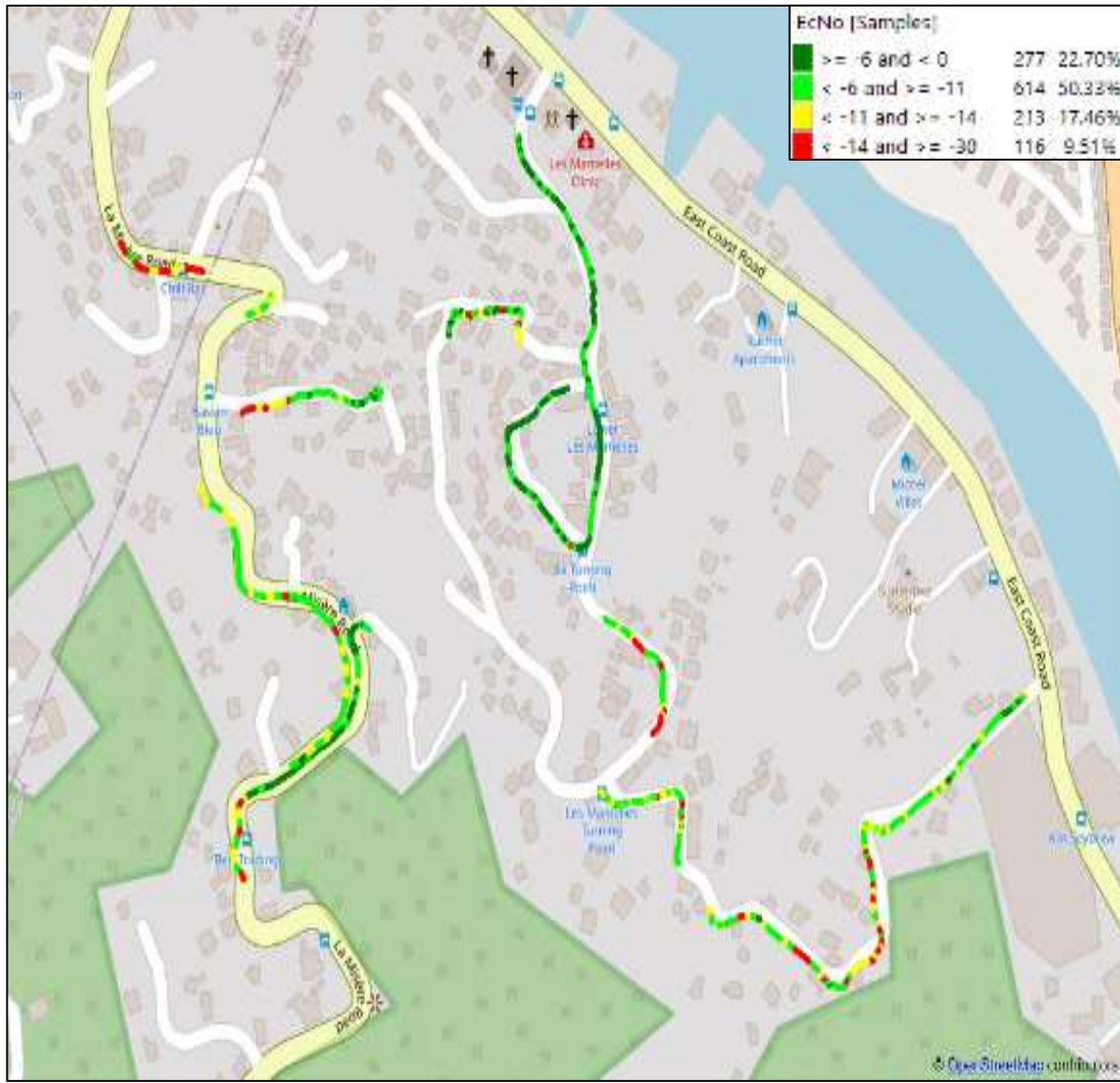




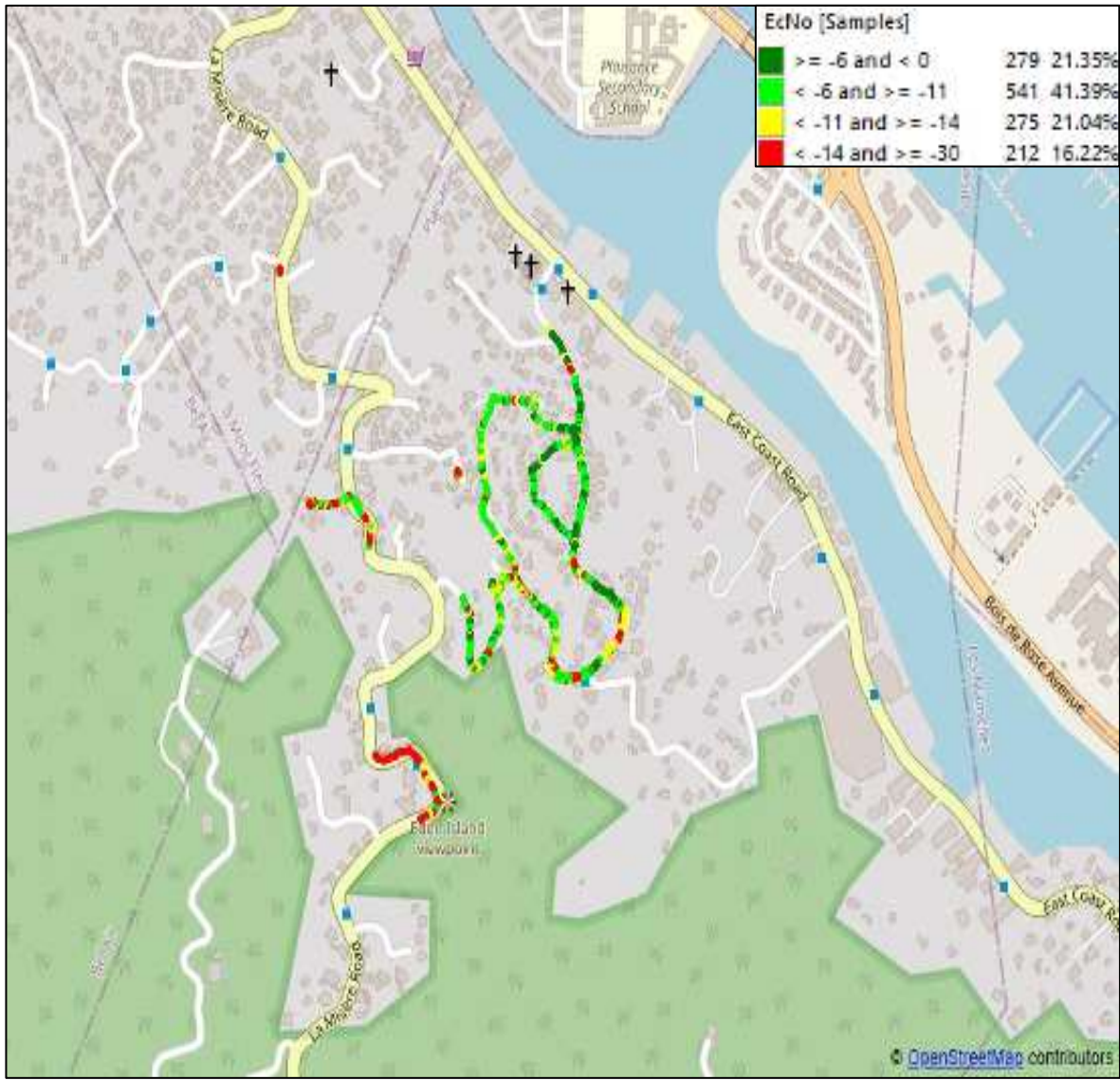
**Airtel LC MO**



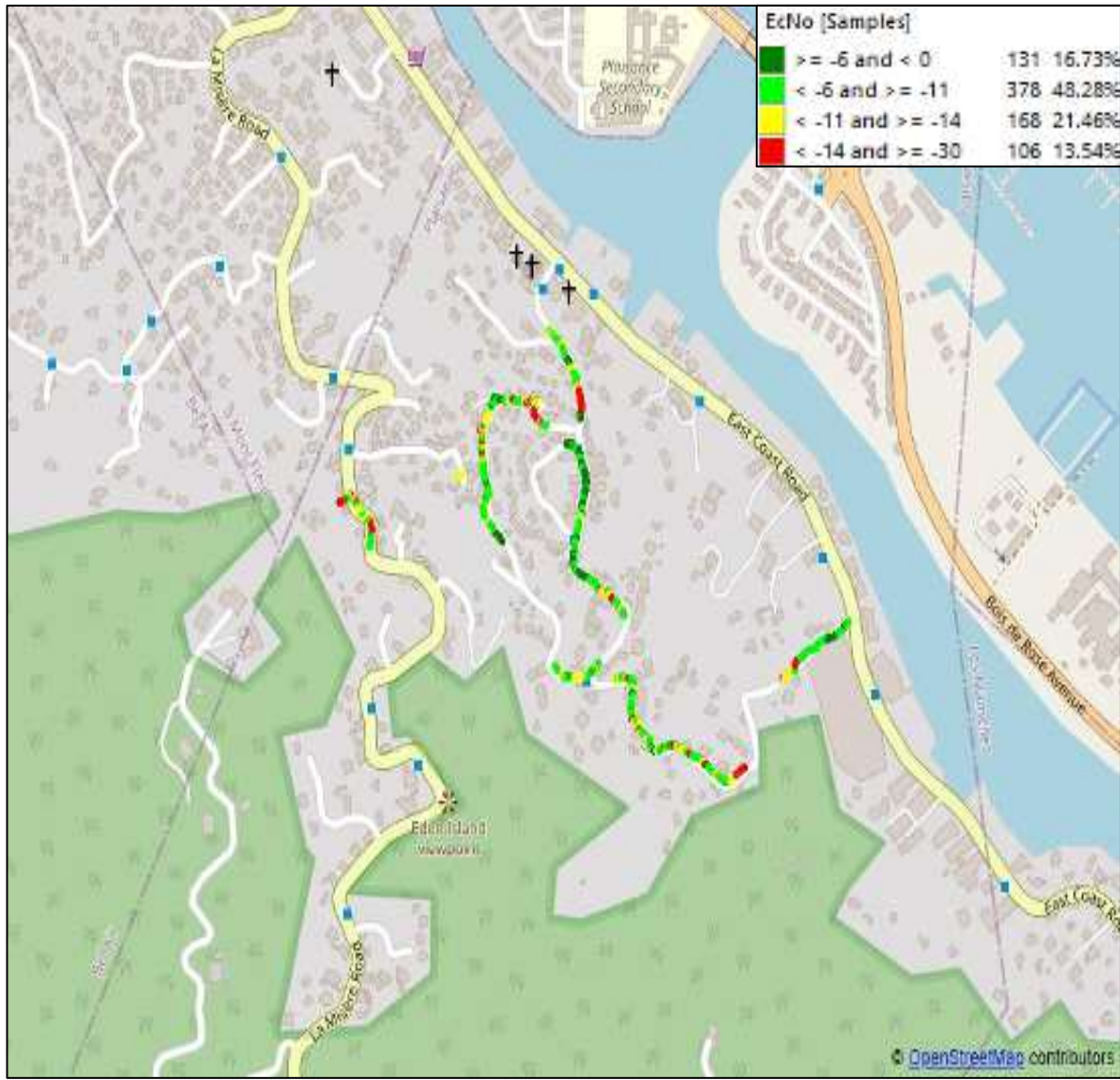
**CWS LC MO**



## Airtel LC MO

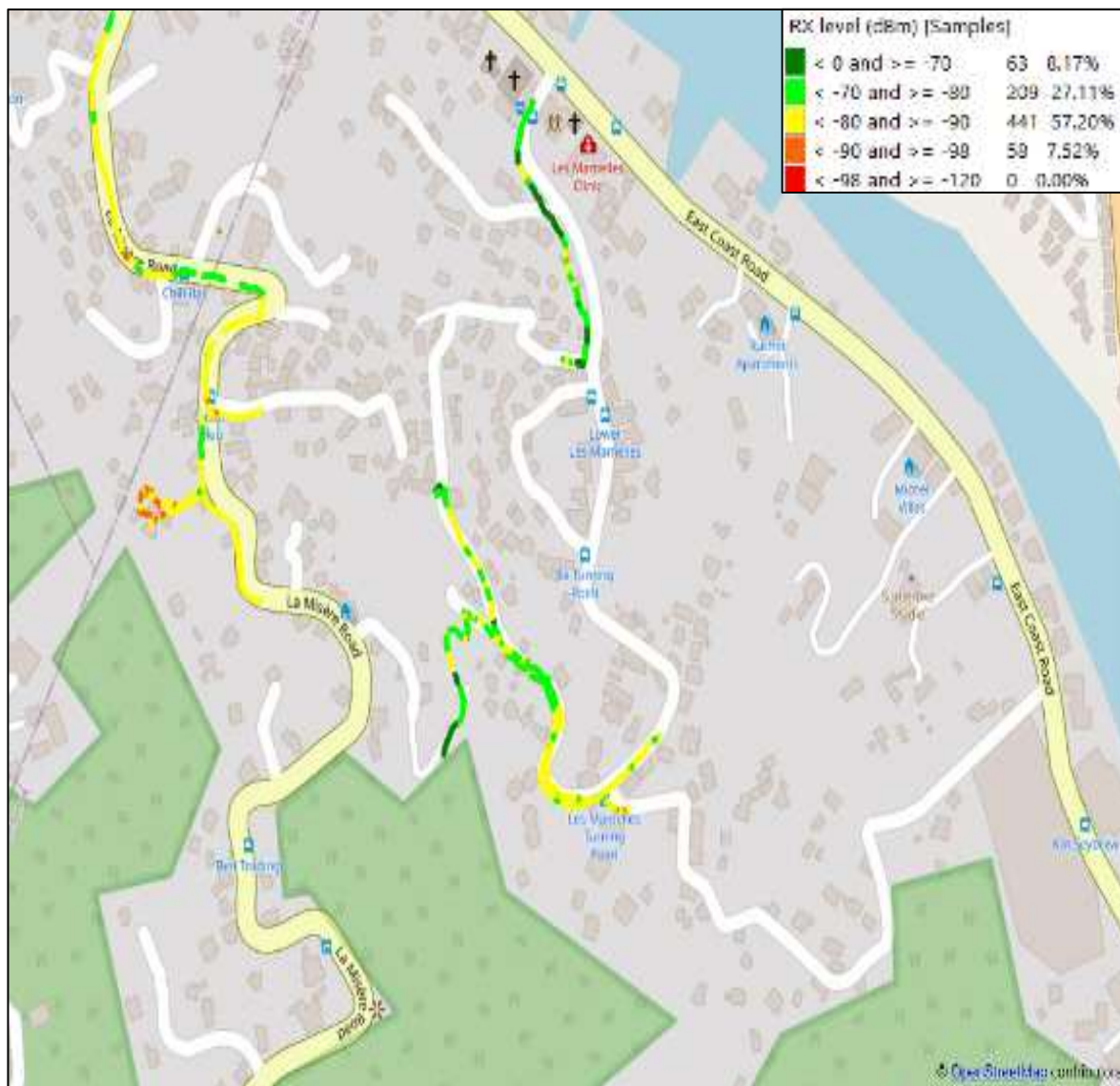


## CWS LC MO

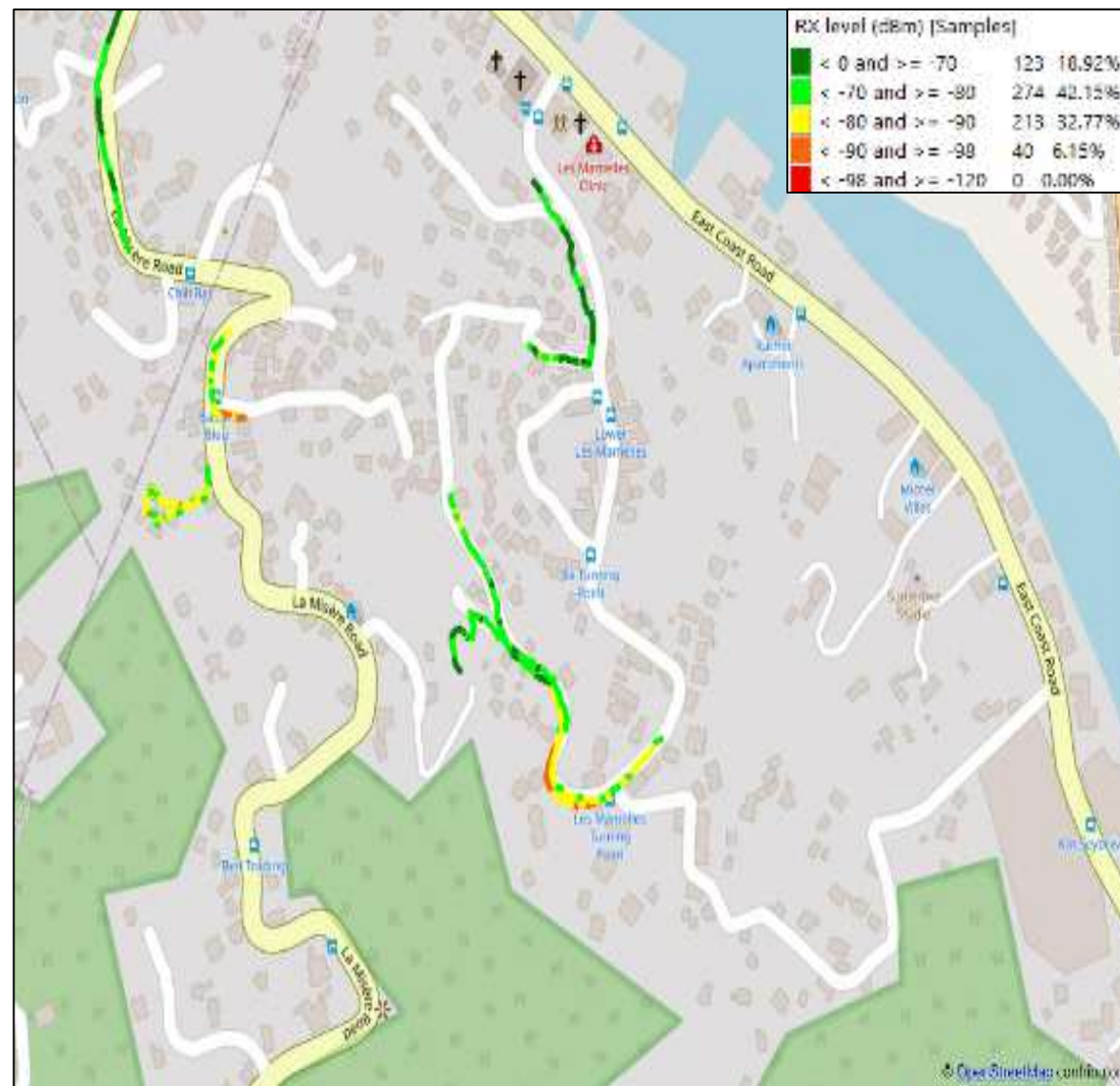




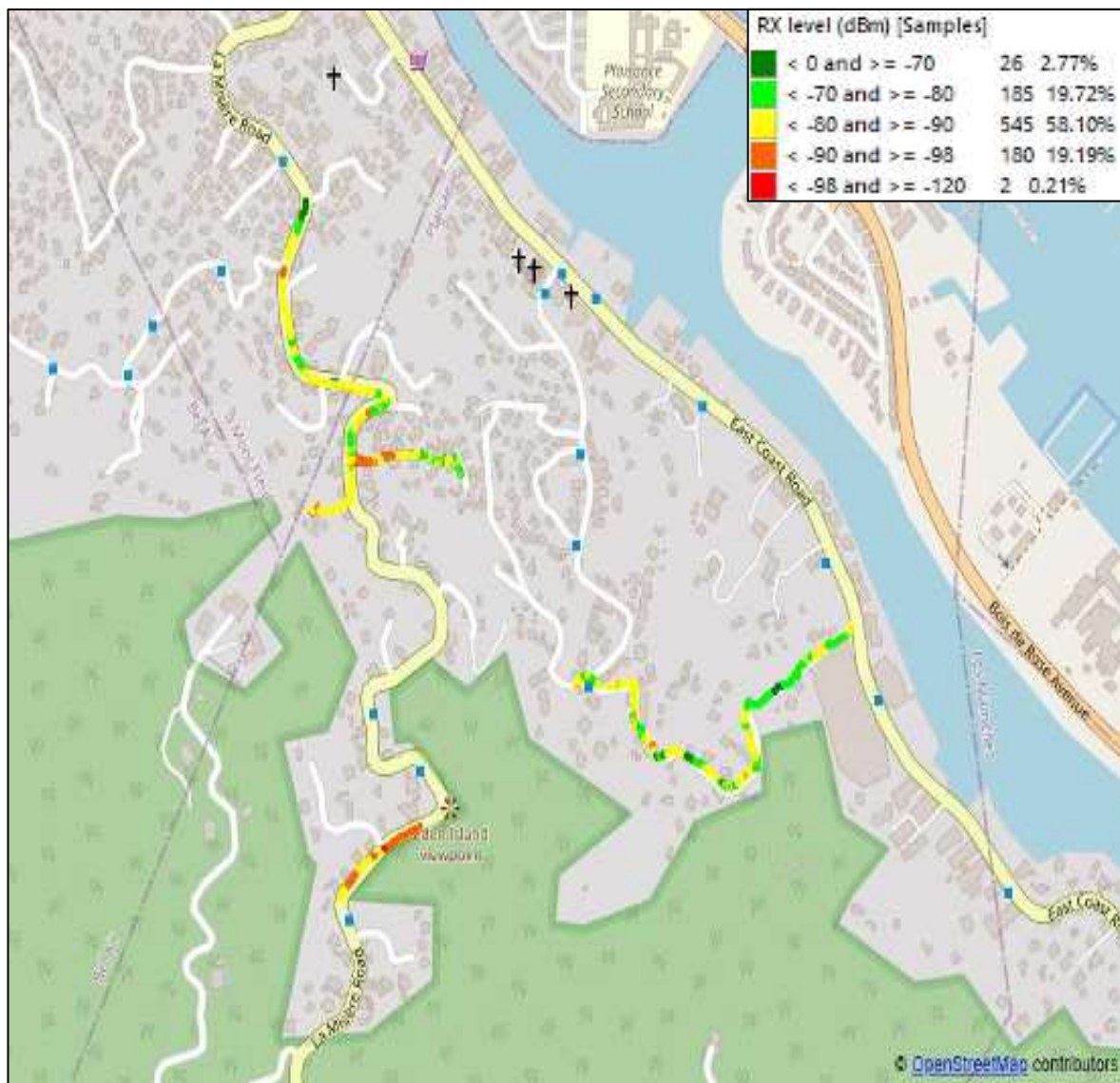
## Airtel LC MO



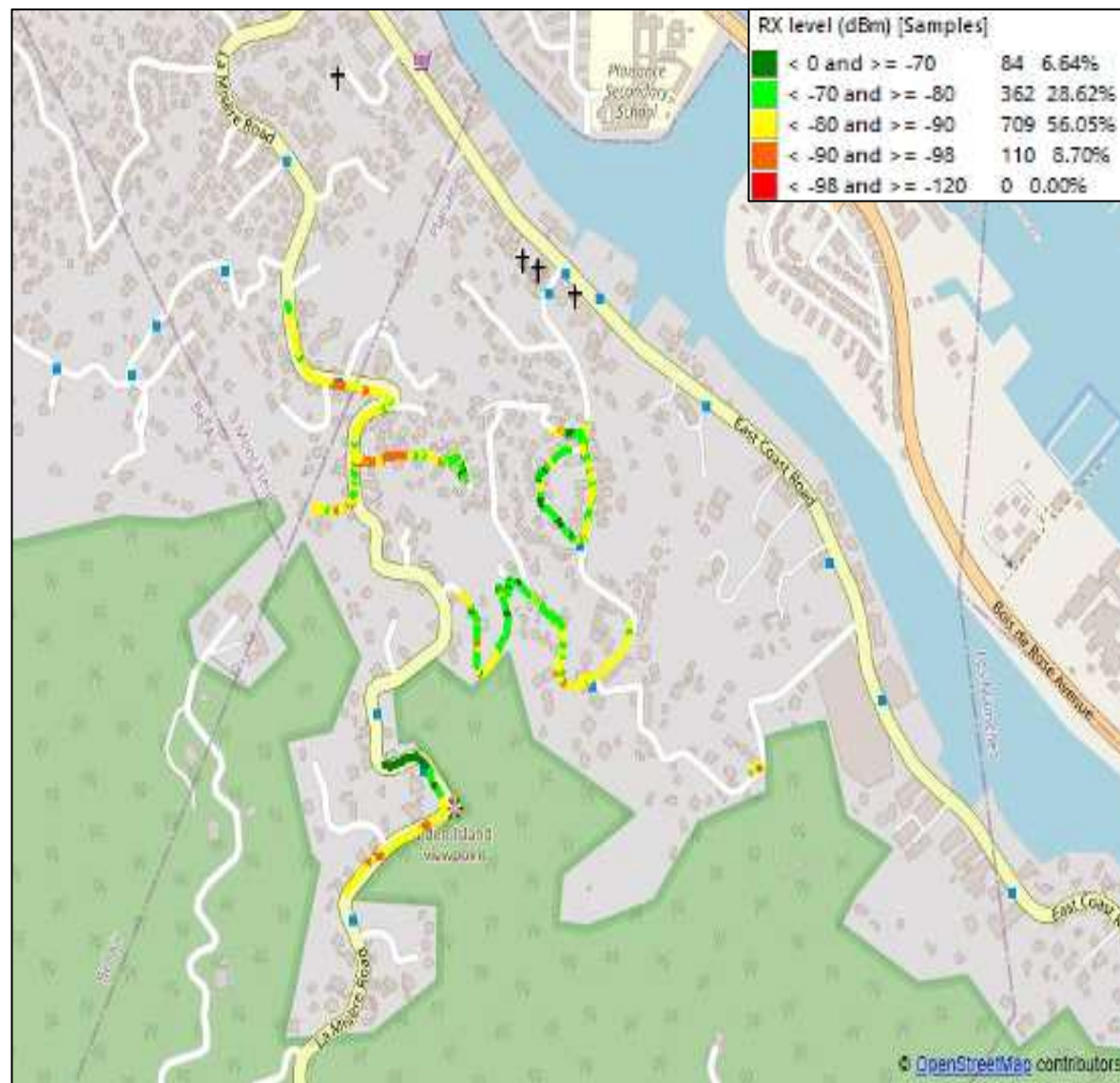
## CWS LC MO



## Airtel LC MO



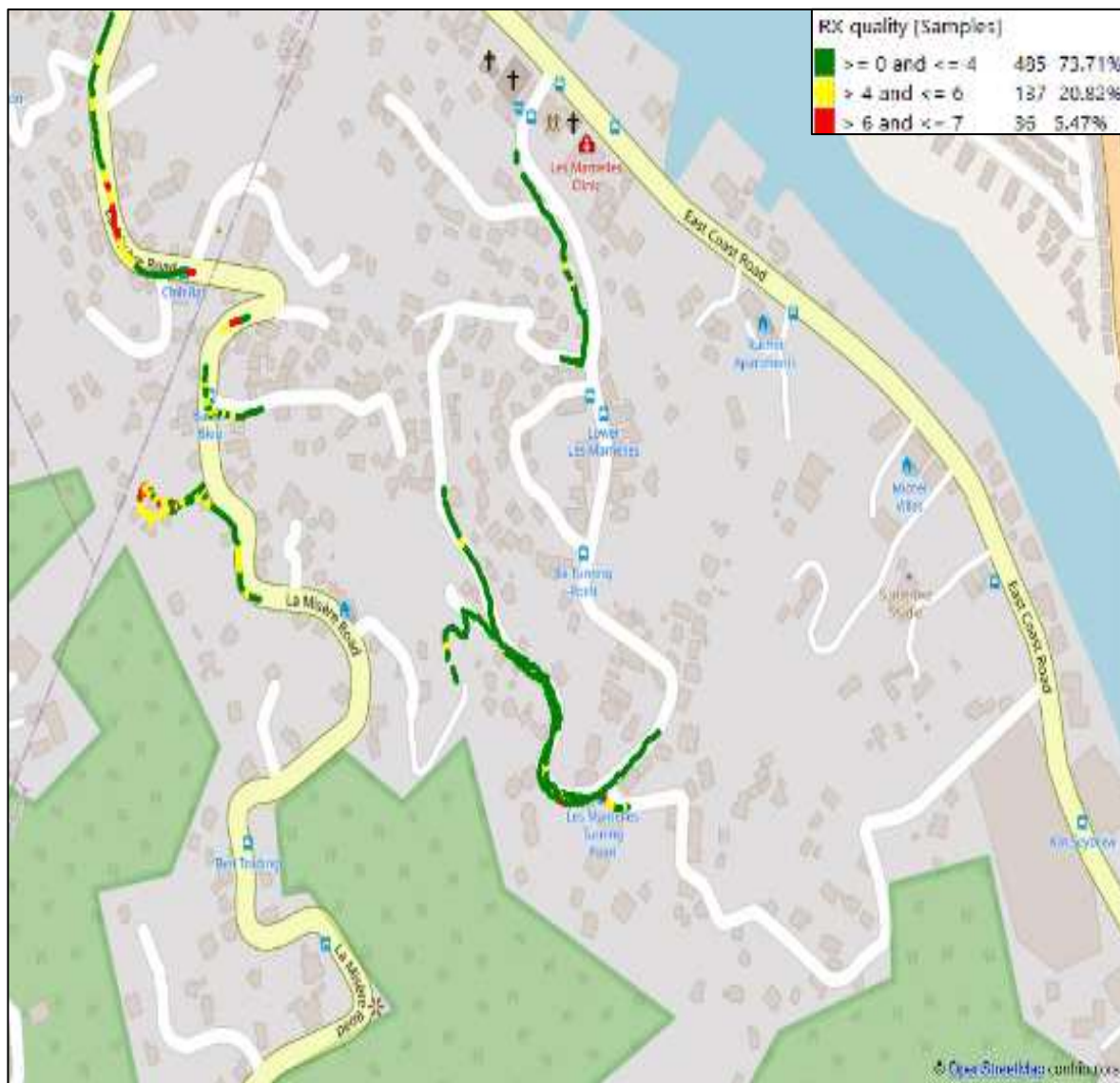
## CWS LC MO



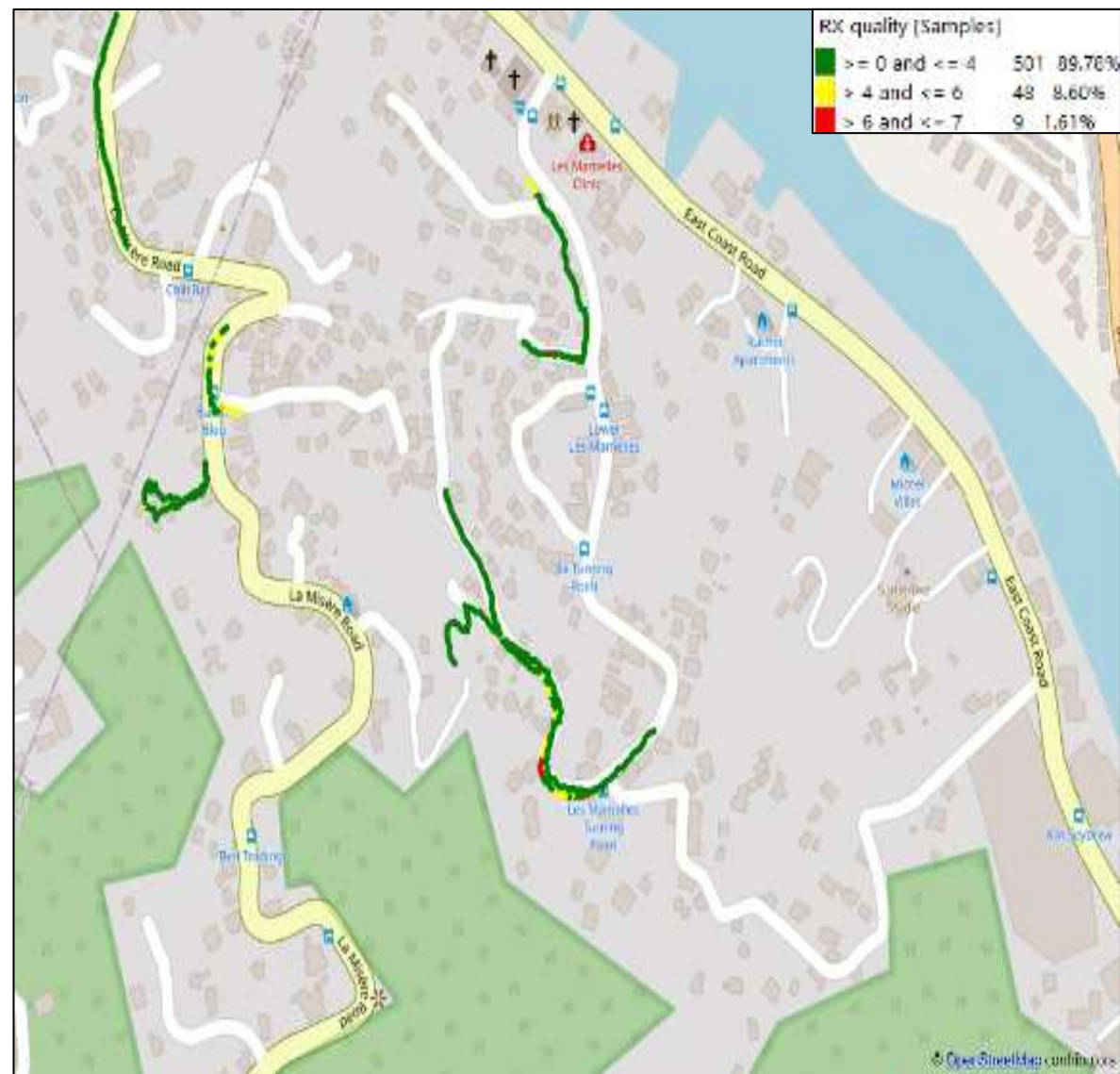


# Phase-1 Long Call RX quality sub PLOT

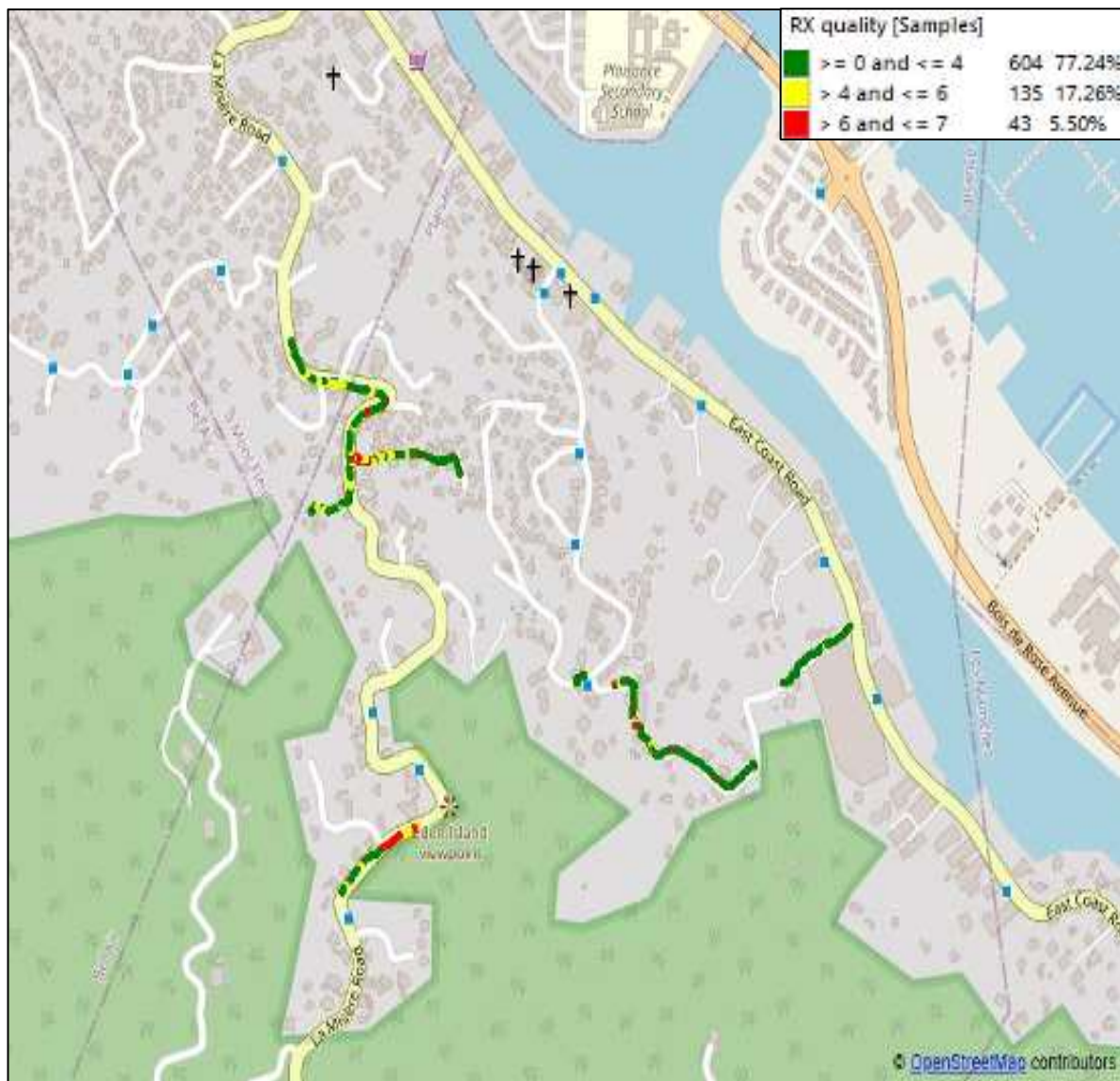
## Airtel LC MO



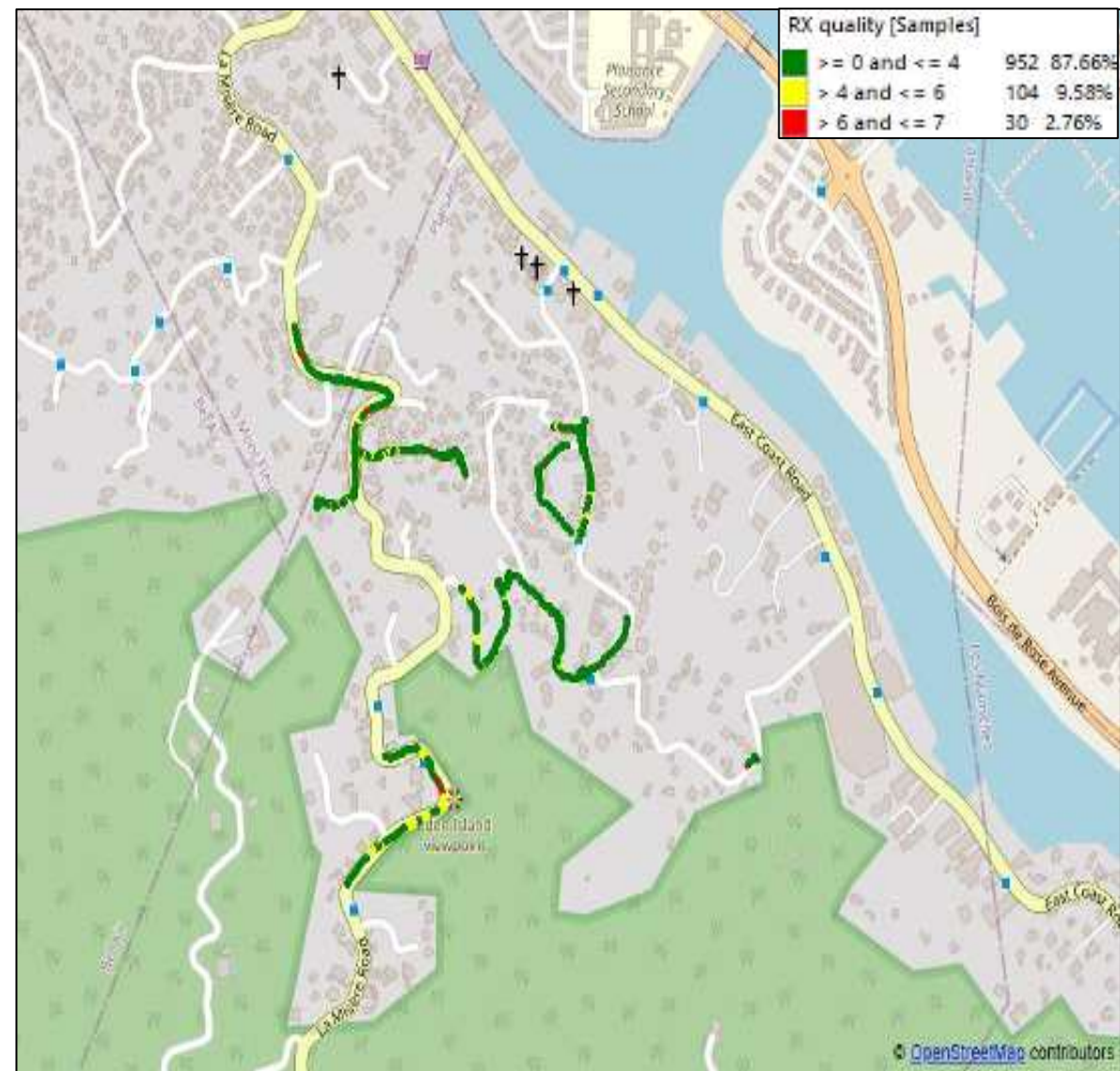
## CWS LC MO



## Airtel LC MO



## CWS LC MO



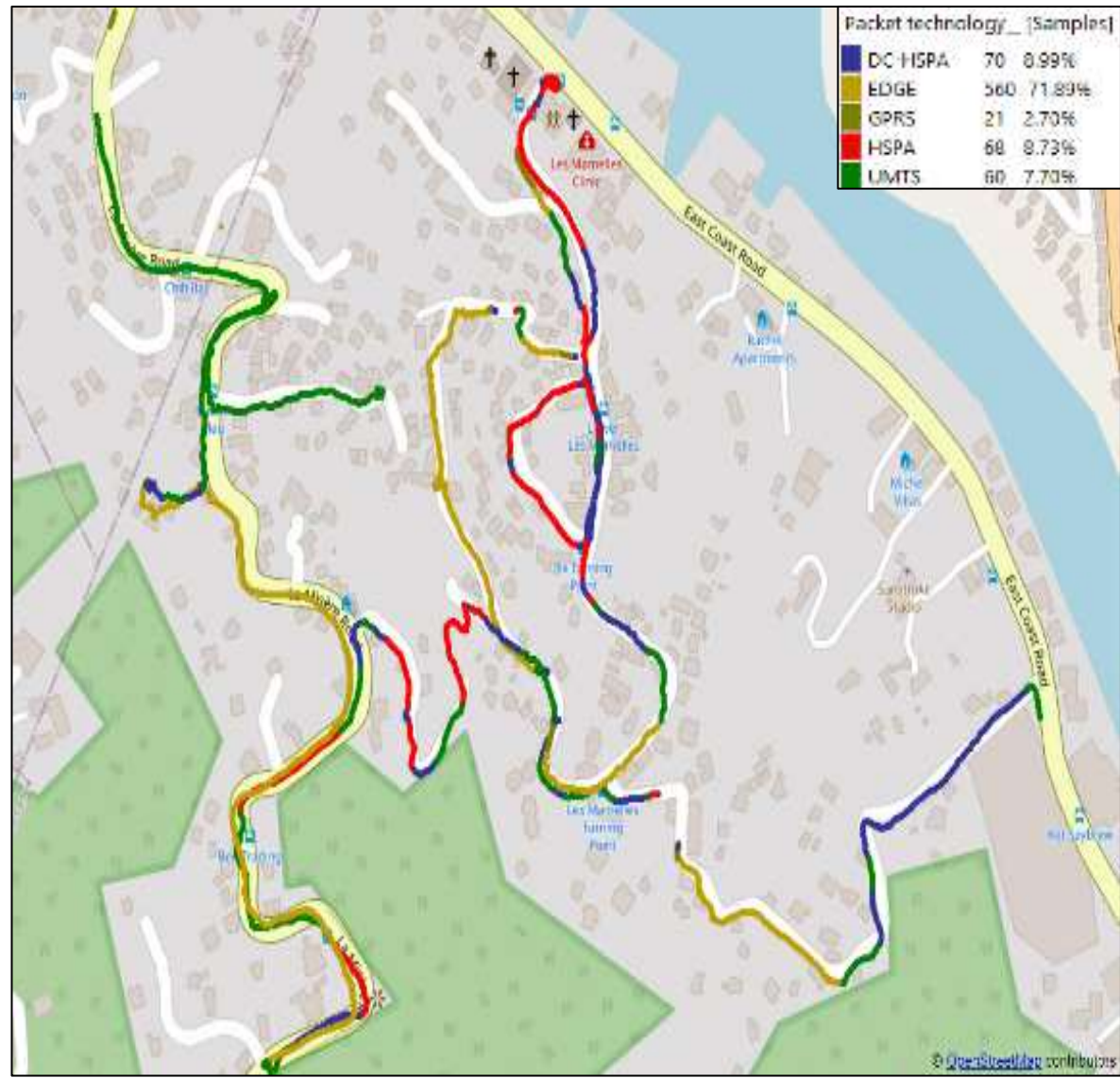
# 3G PREFERRED DATA DRIVE PLOTS



## Airtel Data 3G



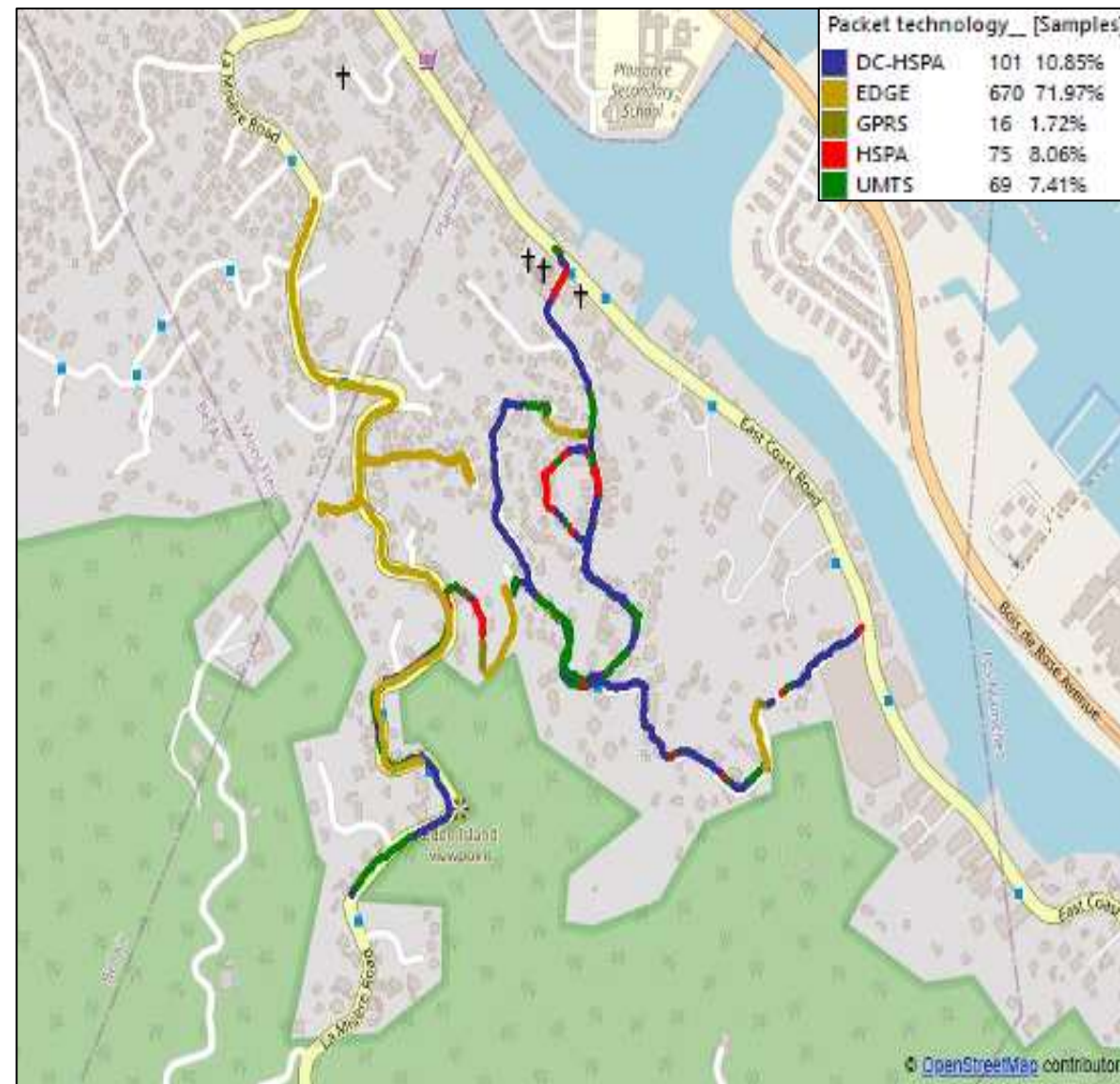
## CWS Data 3G



## Airtel Data 3G



## CWS Data 3G



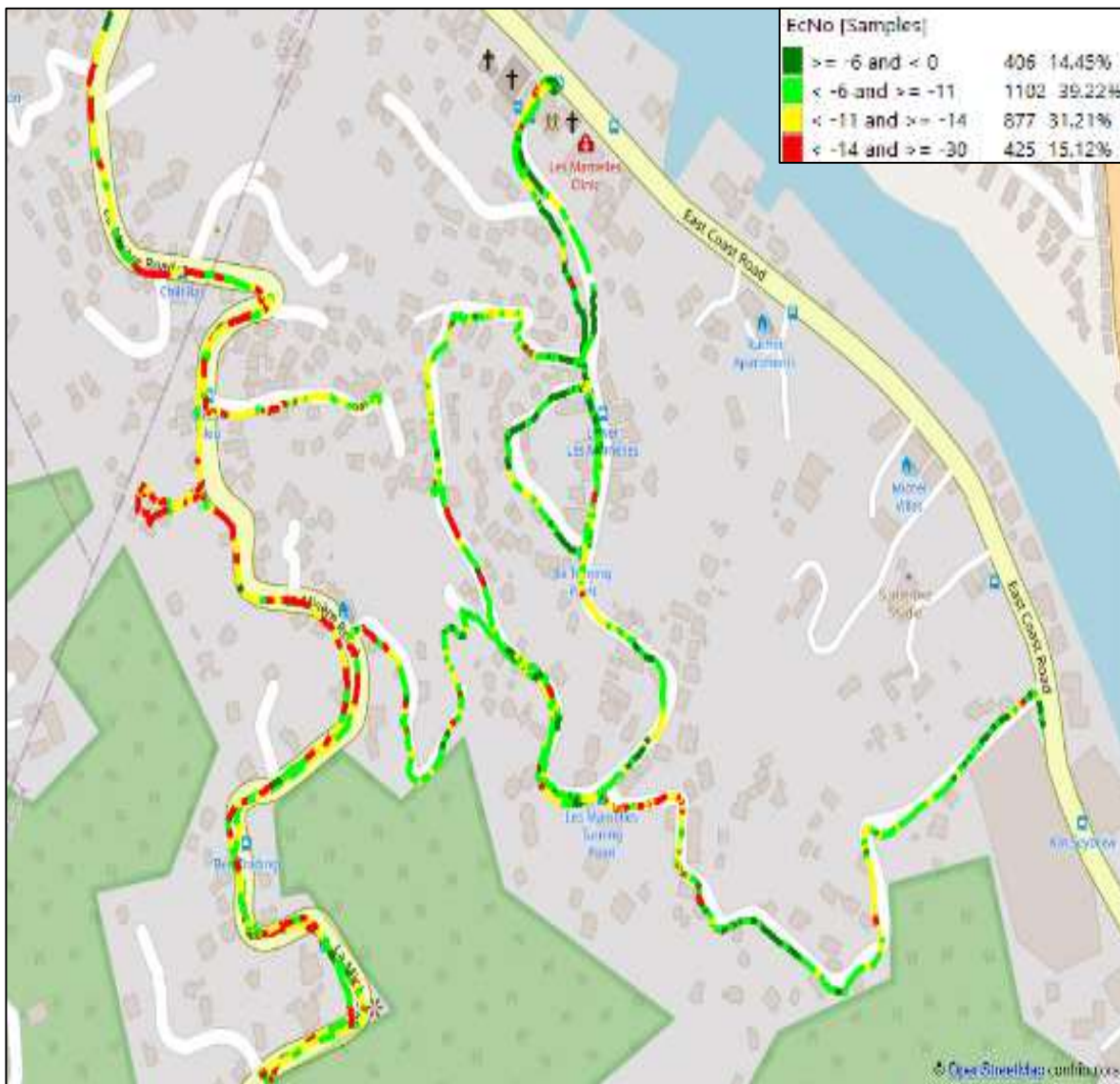




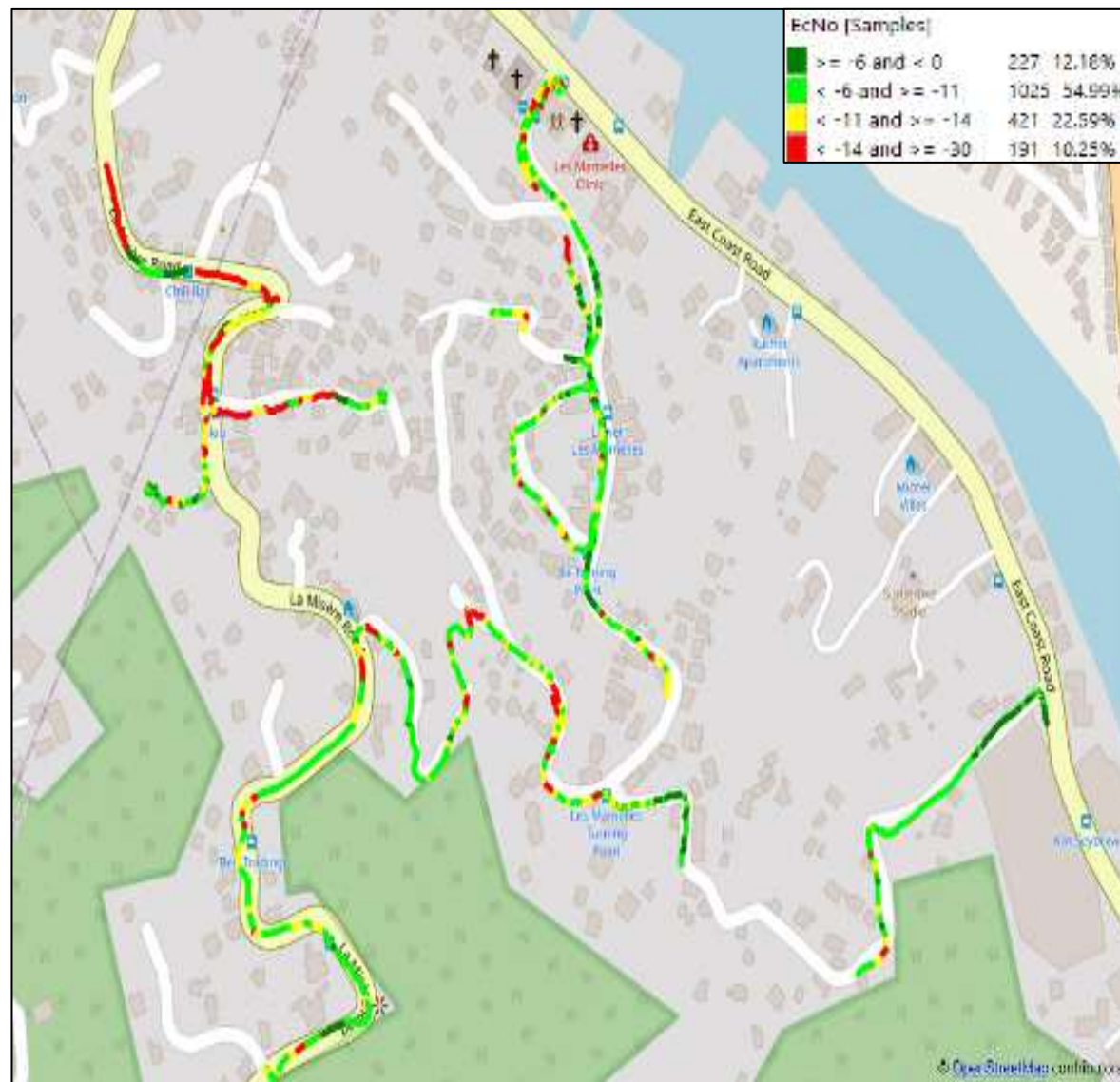




## Airtel Data 3G

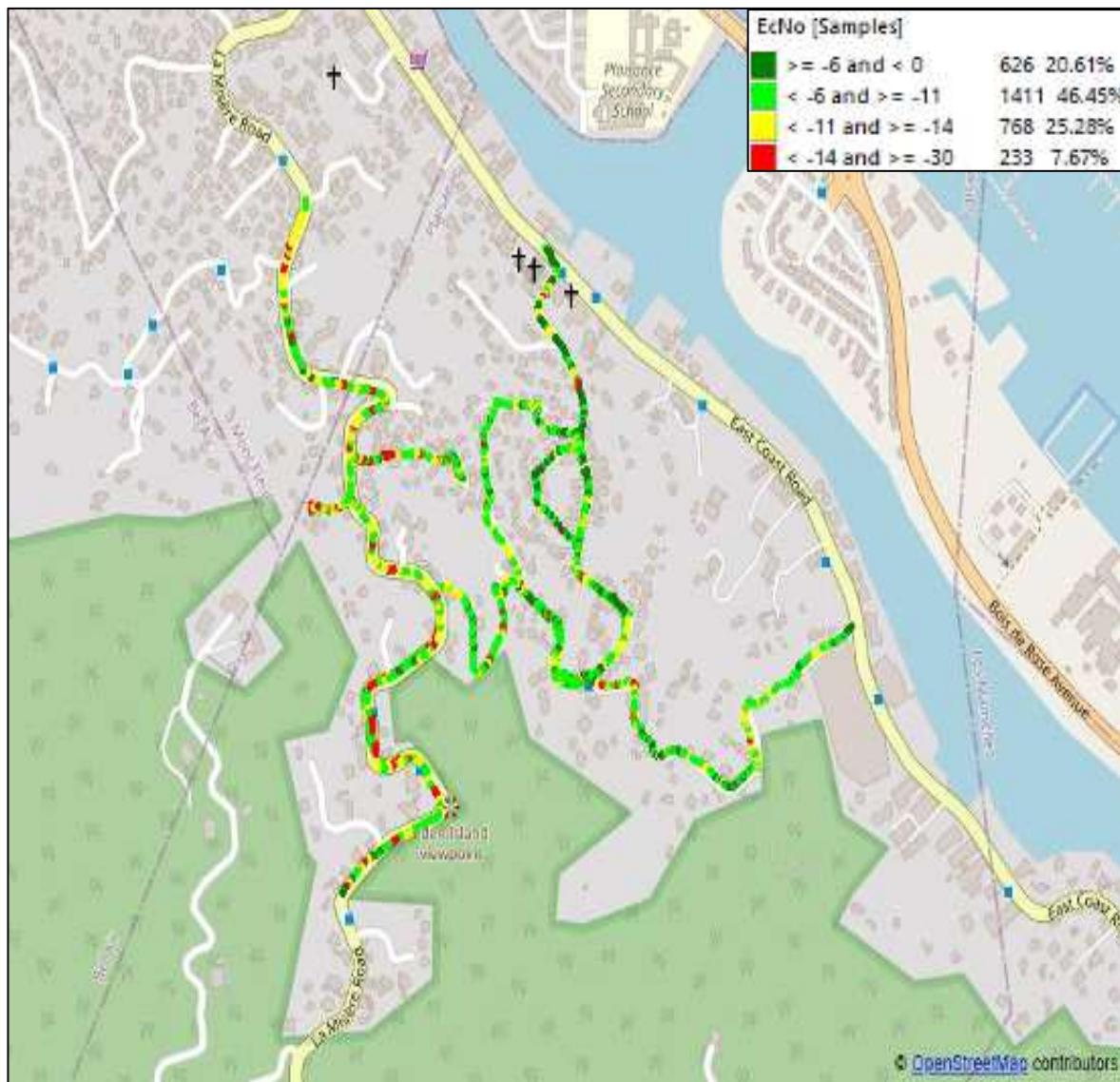


## CWS Data 3G

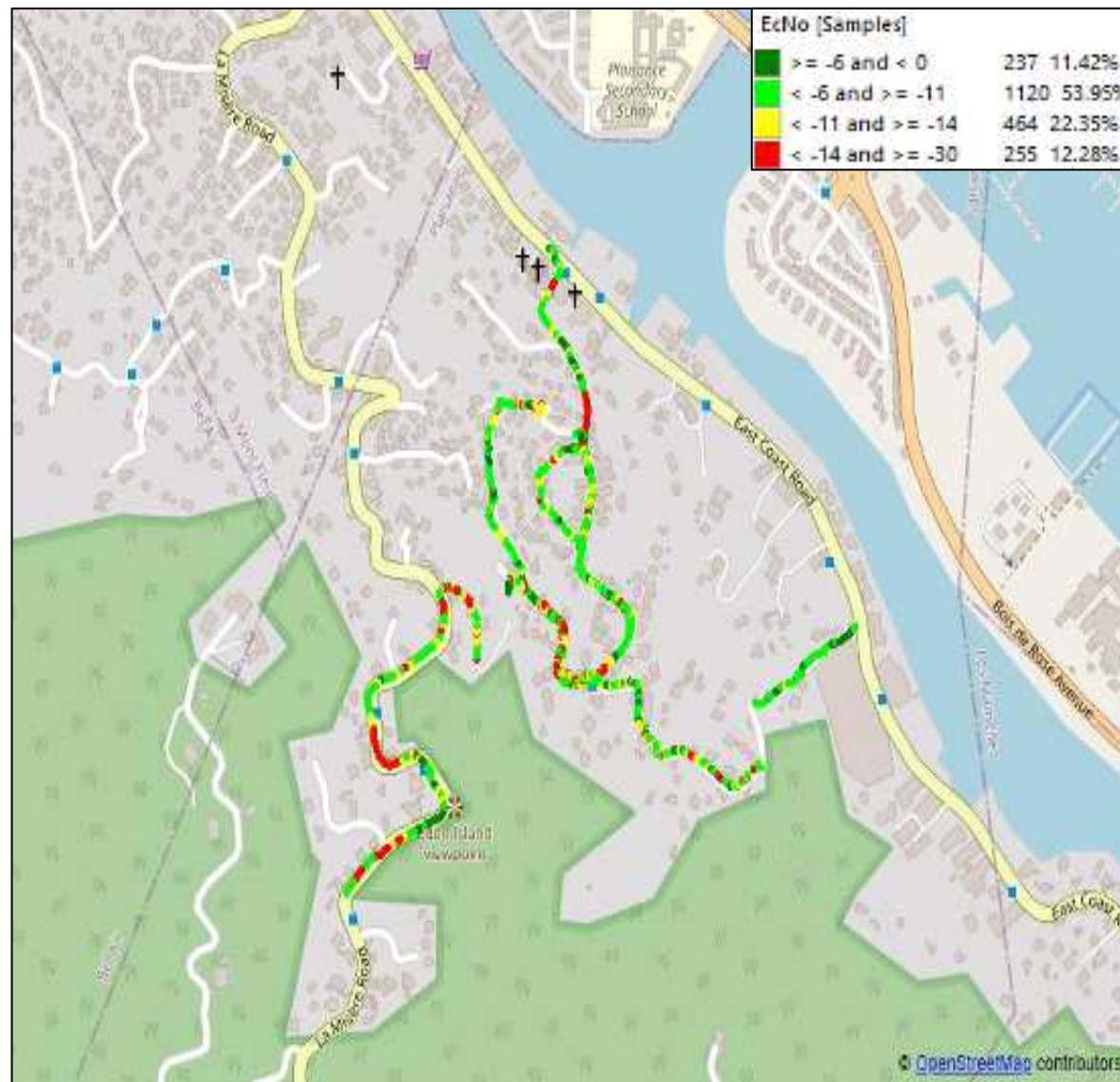




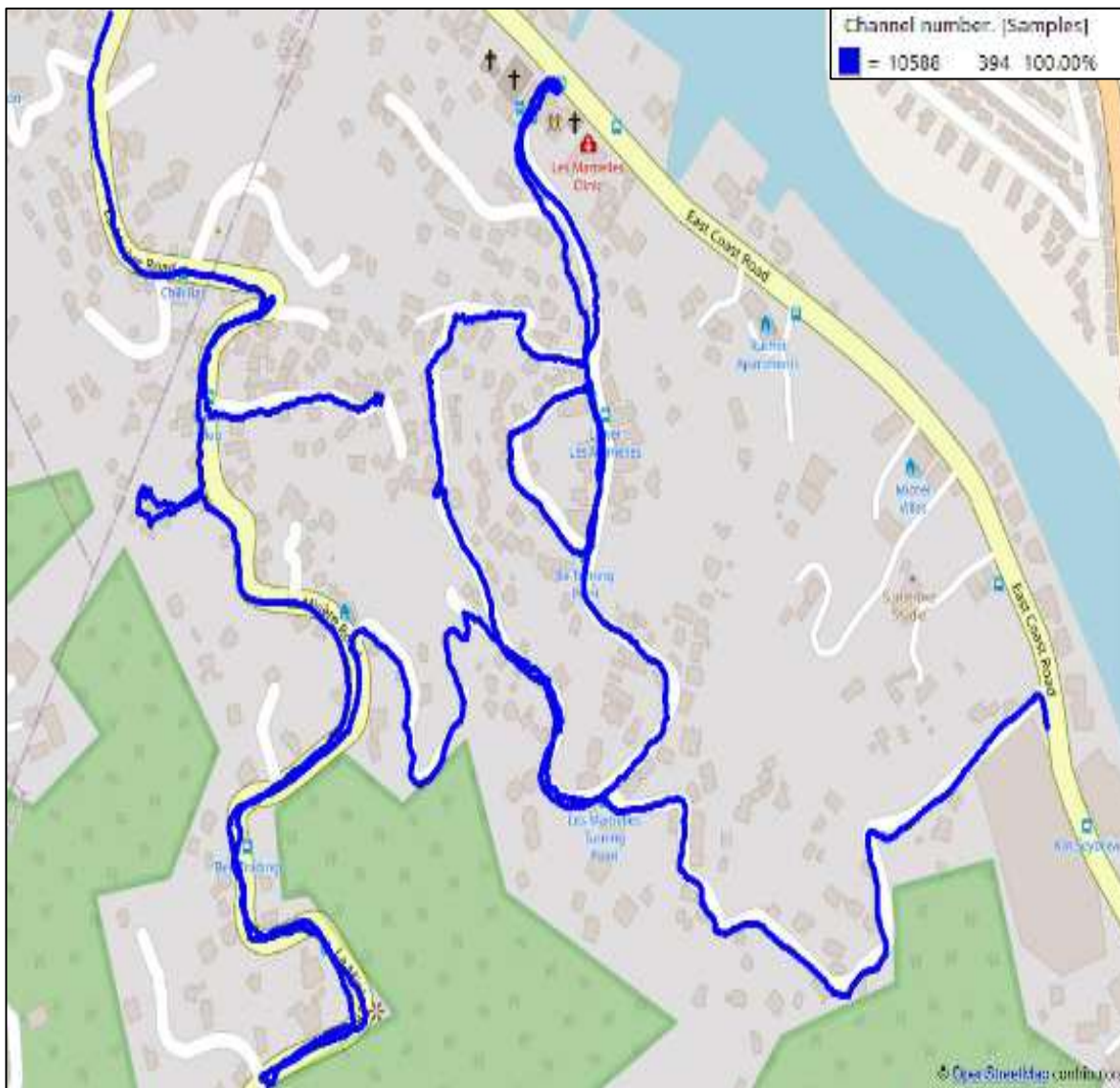
## Airtel Data 3G



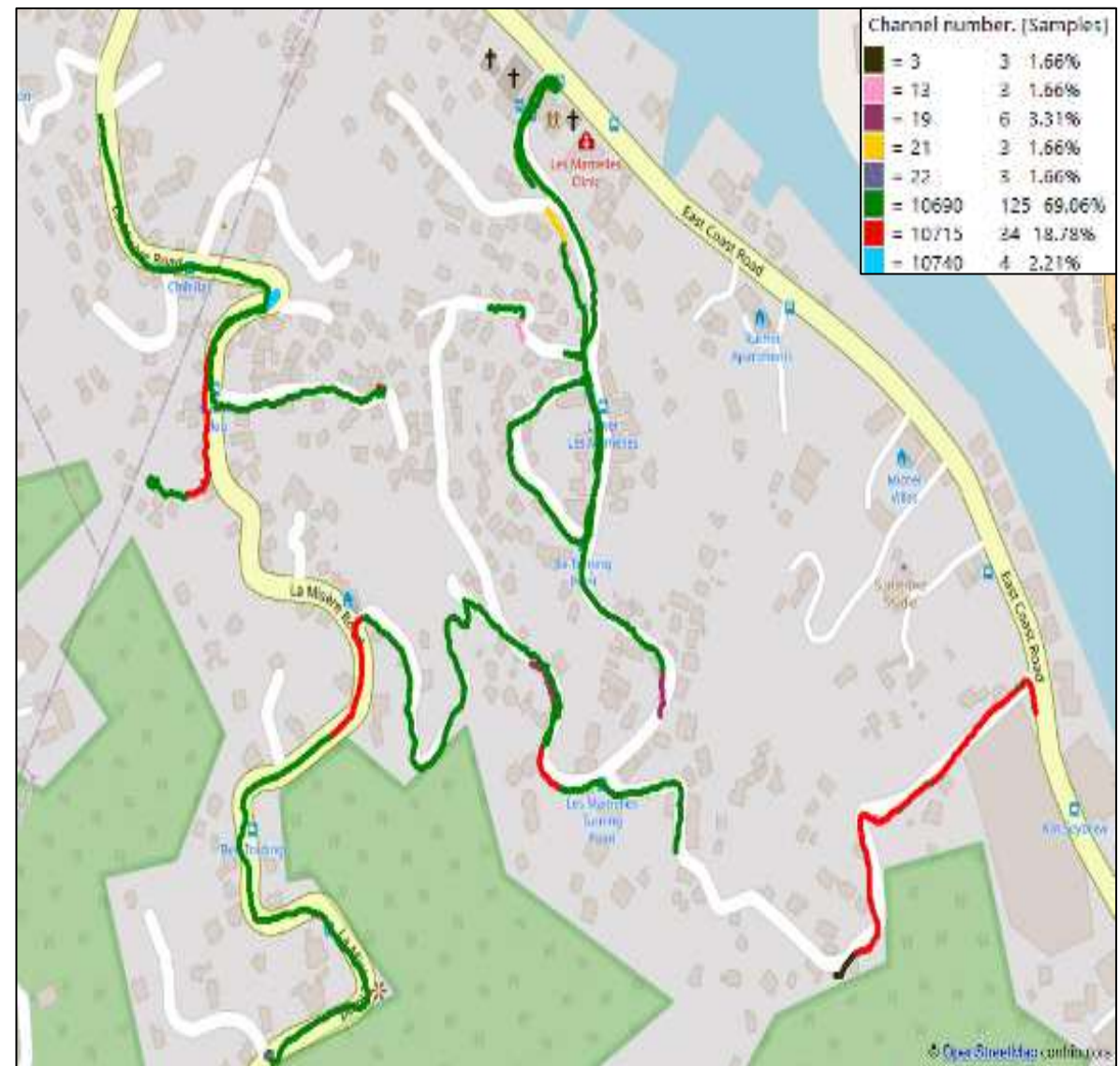
## CWS Data 3G



## Airtel Data 3G

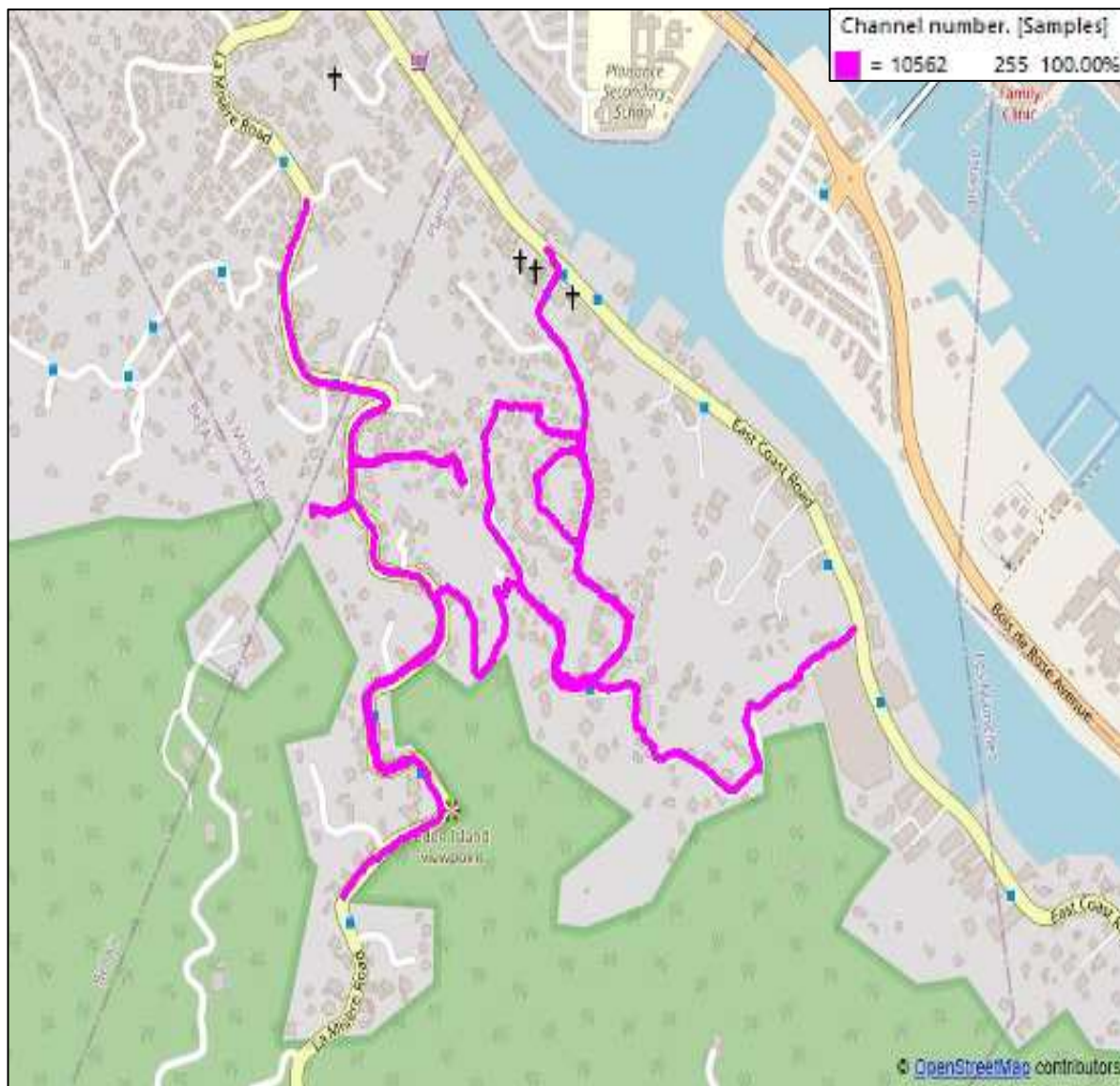


## CWS Data 3G

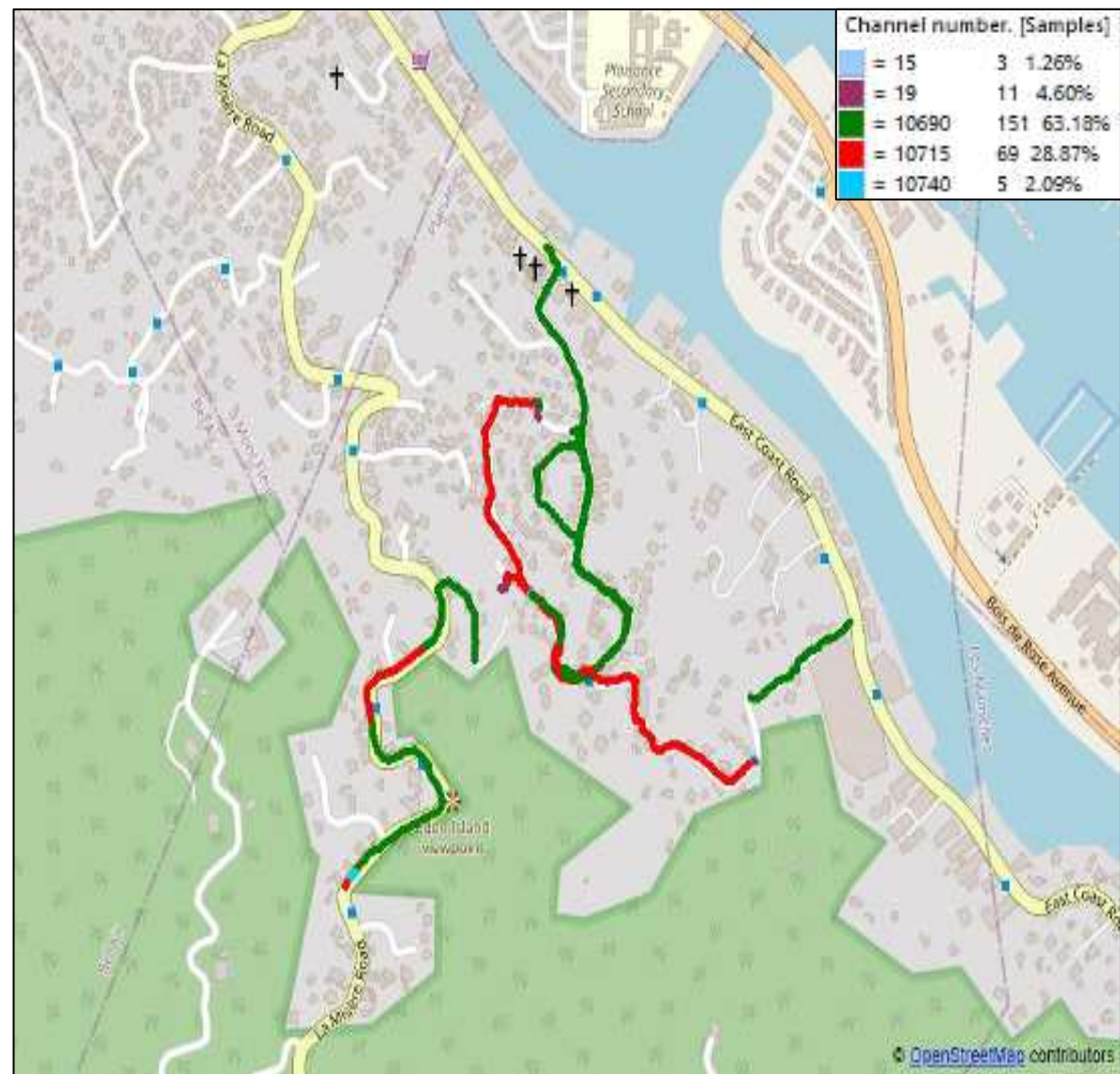




## Airtel Data 3G



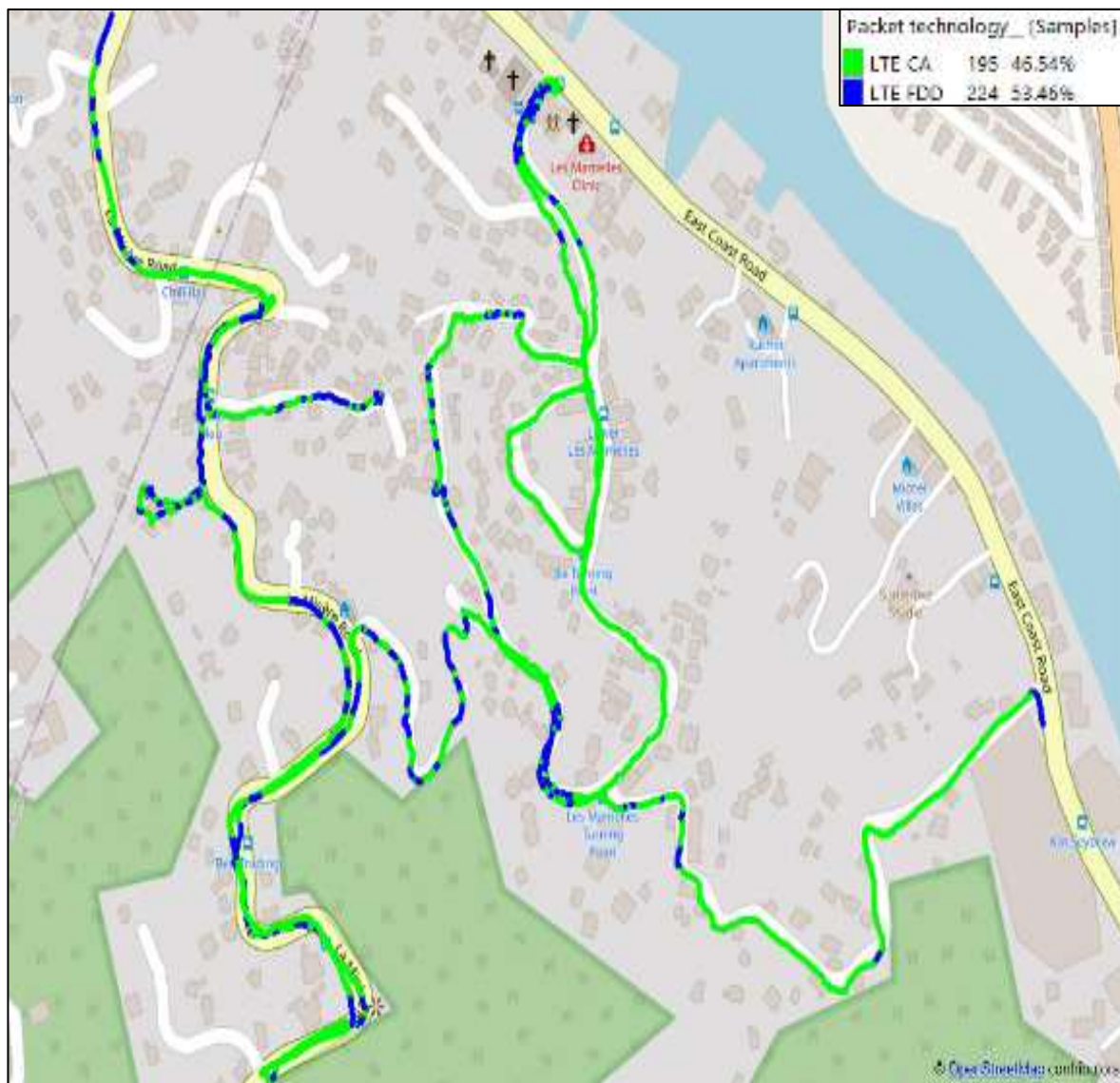
## CWS Data 3G



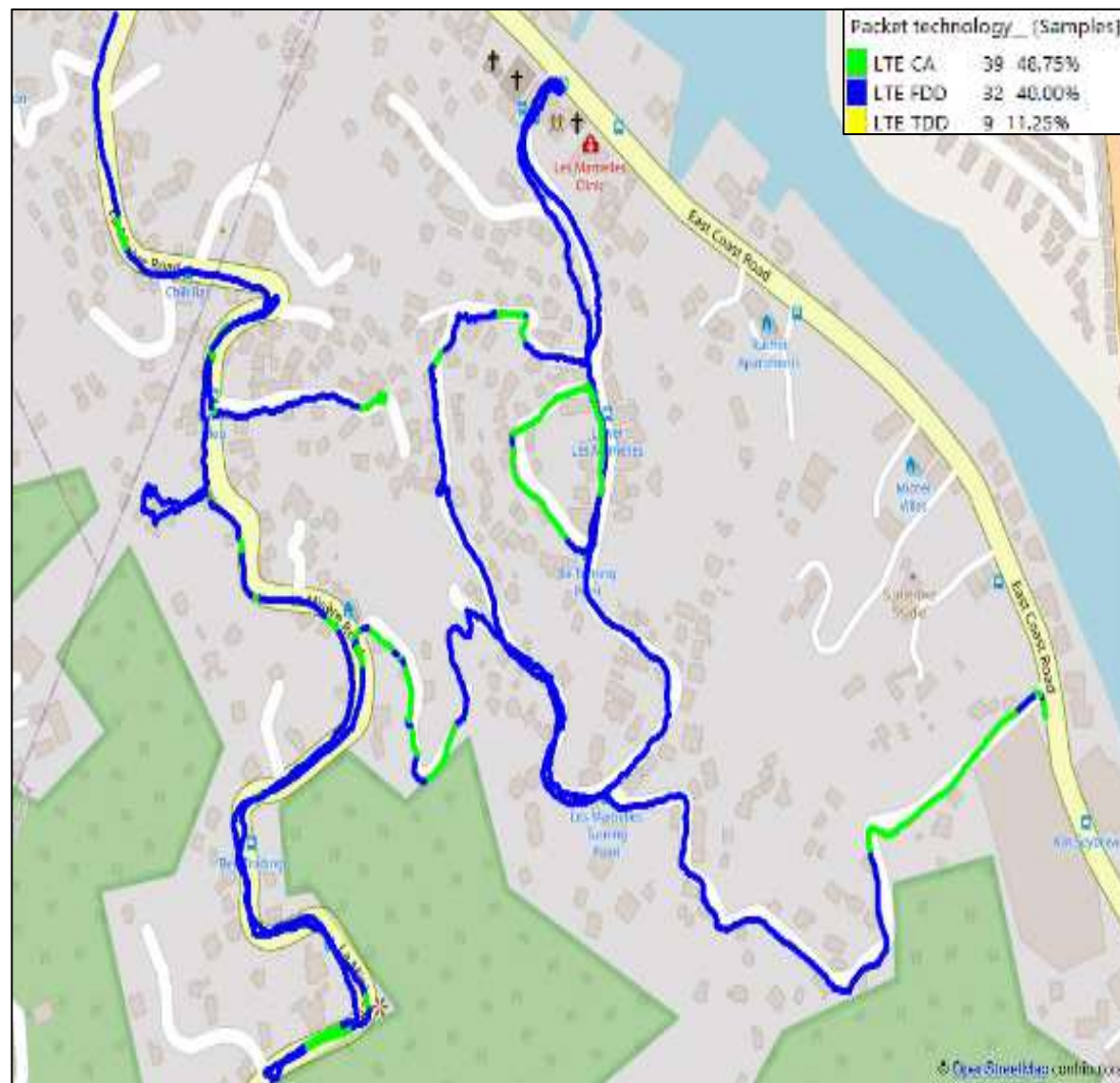
# **4G PREFERRED DATA DRIVE PLOTS**



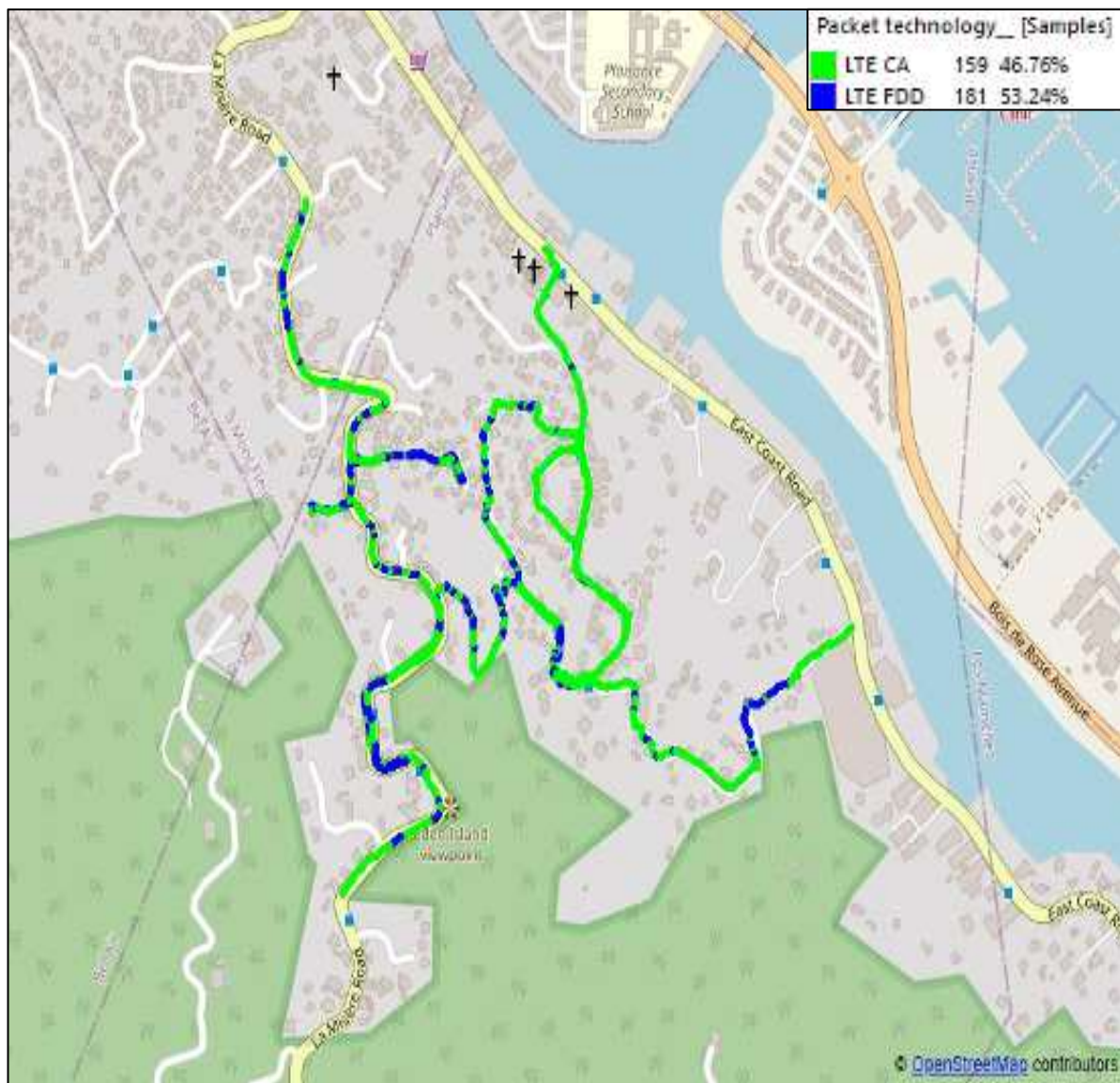
## Airtel Data 4G



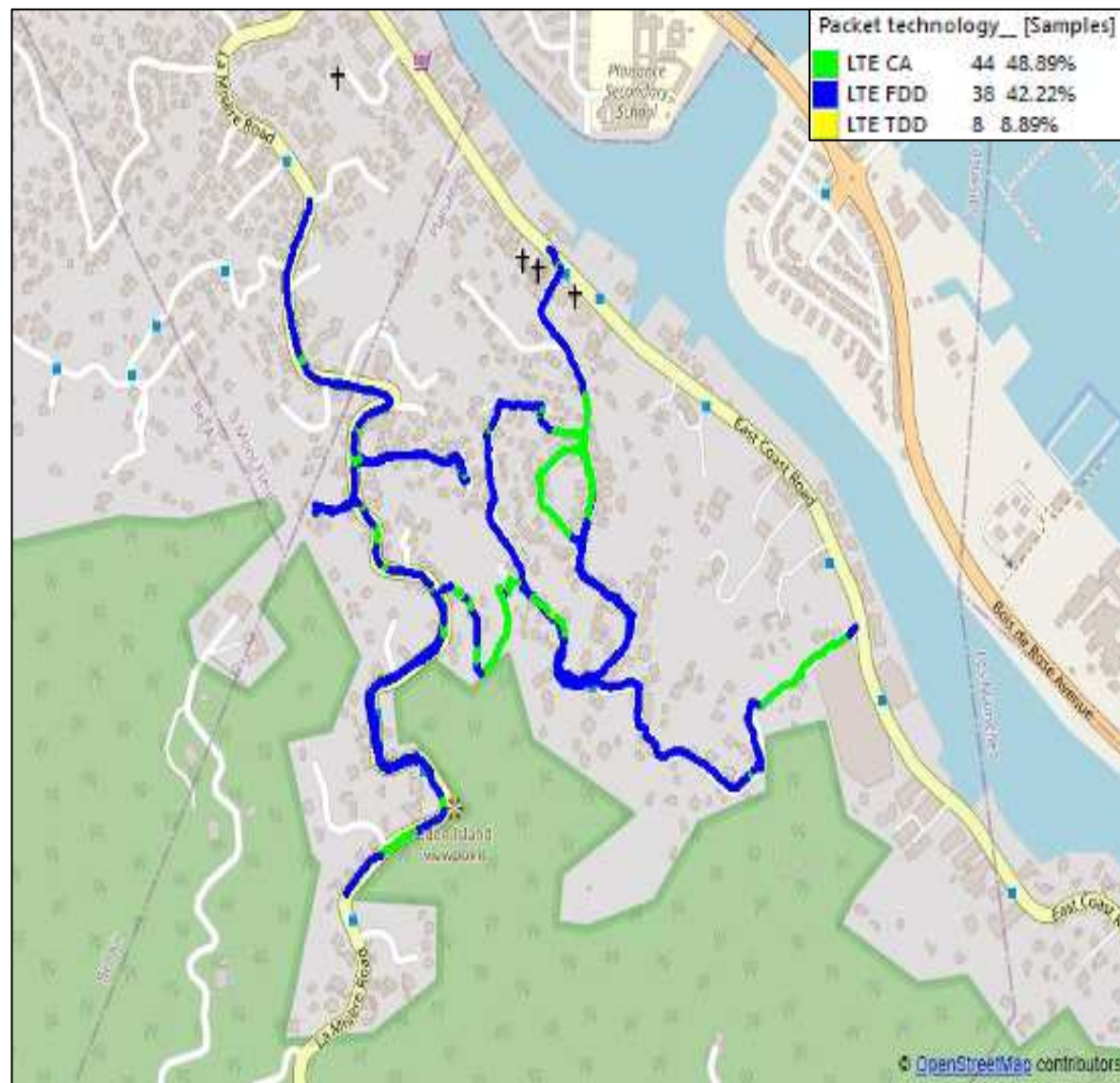
## CWS Data 4G



## Airtel Data 4G

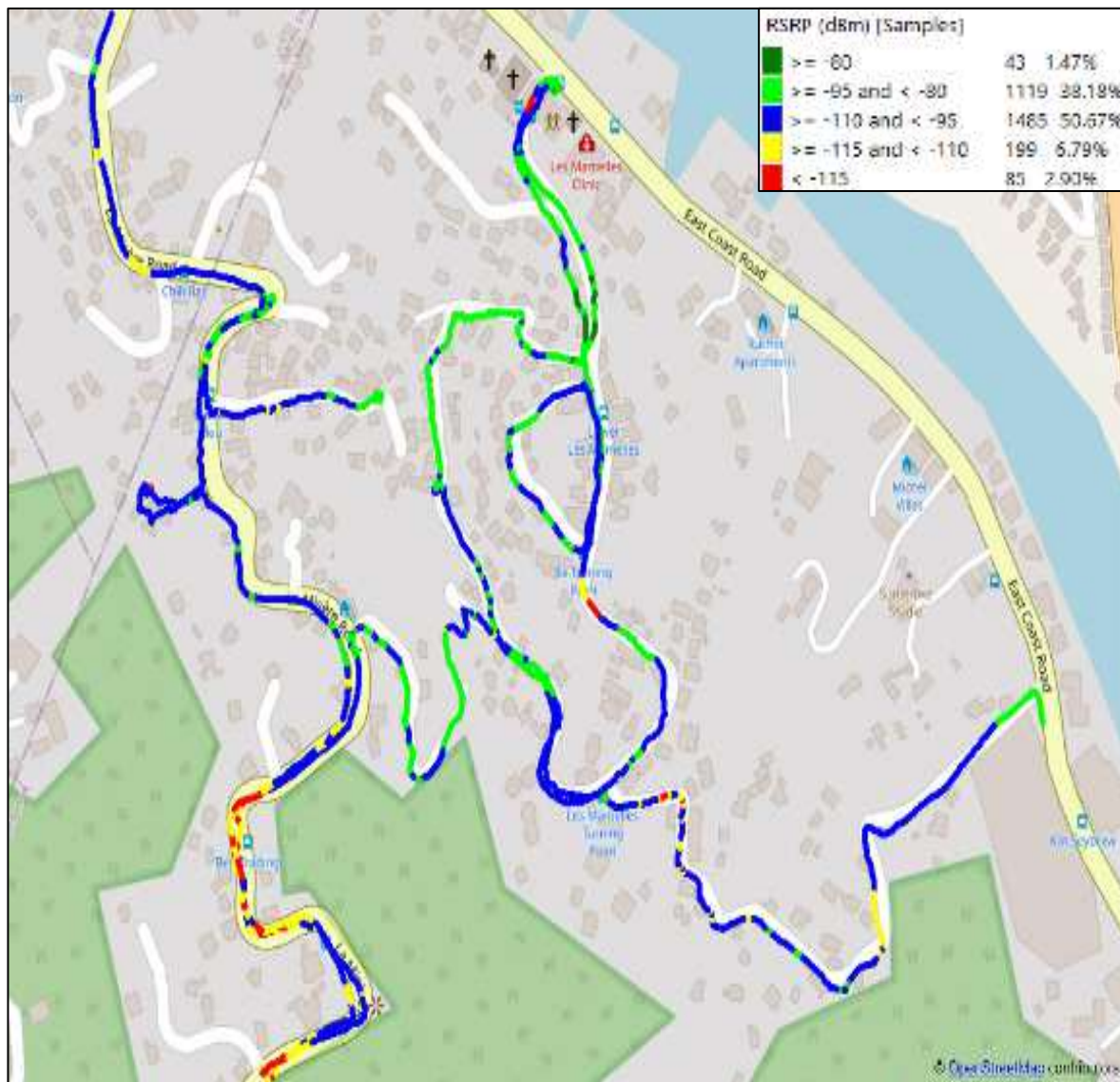


## CWS Data 4G

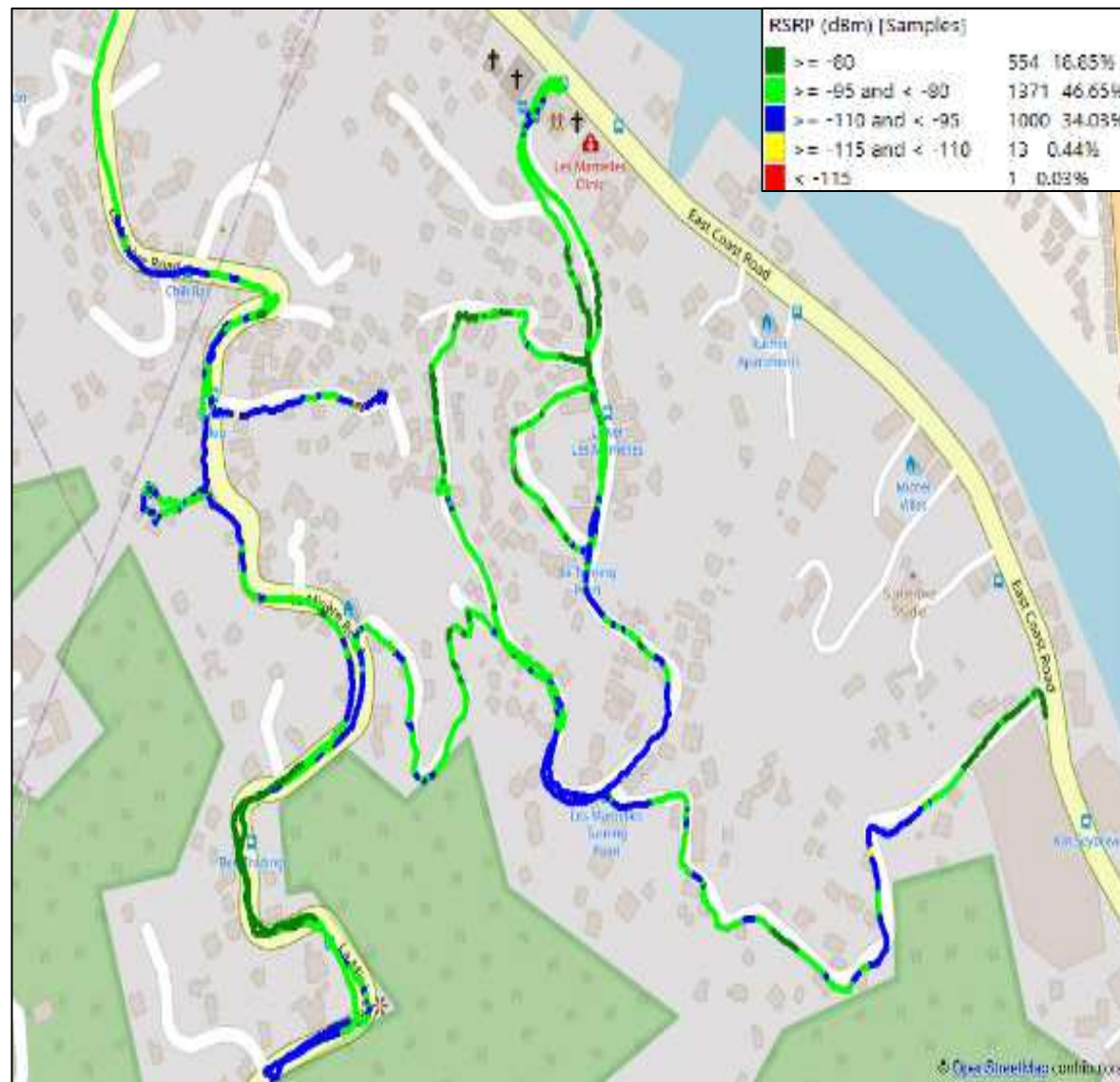




## Airtel Data 4G

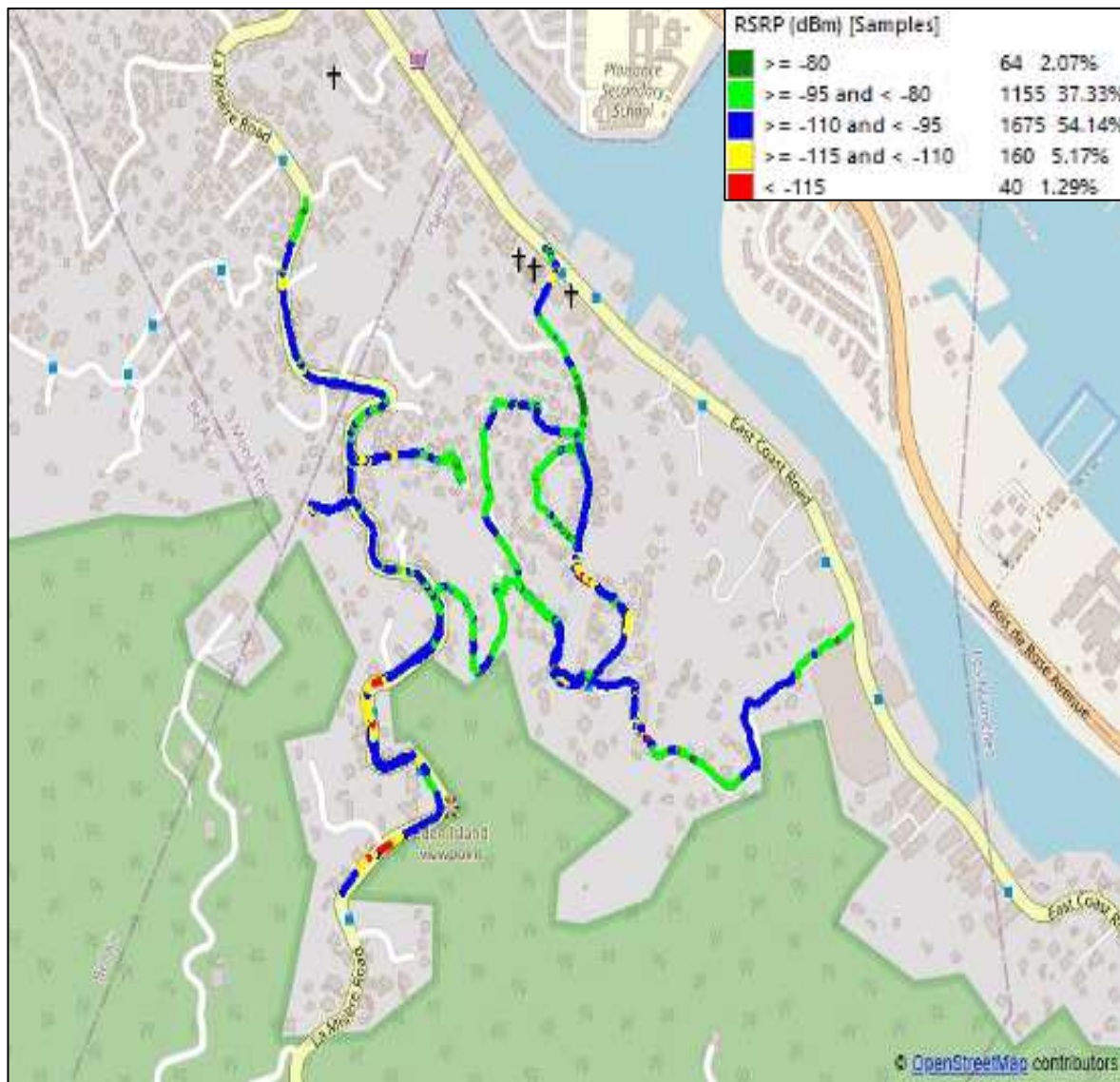


## CWS Data 4G

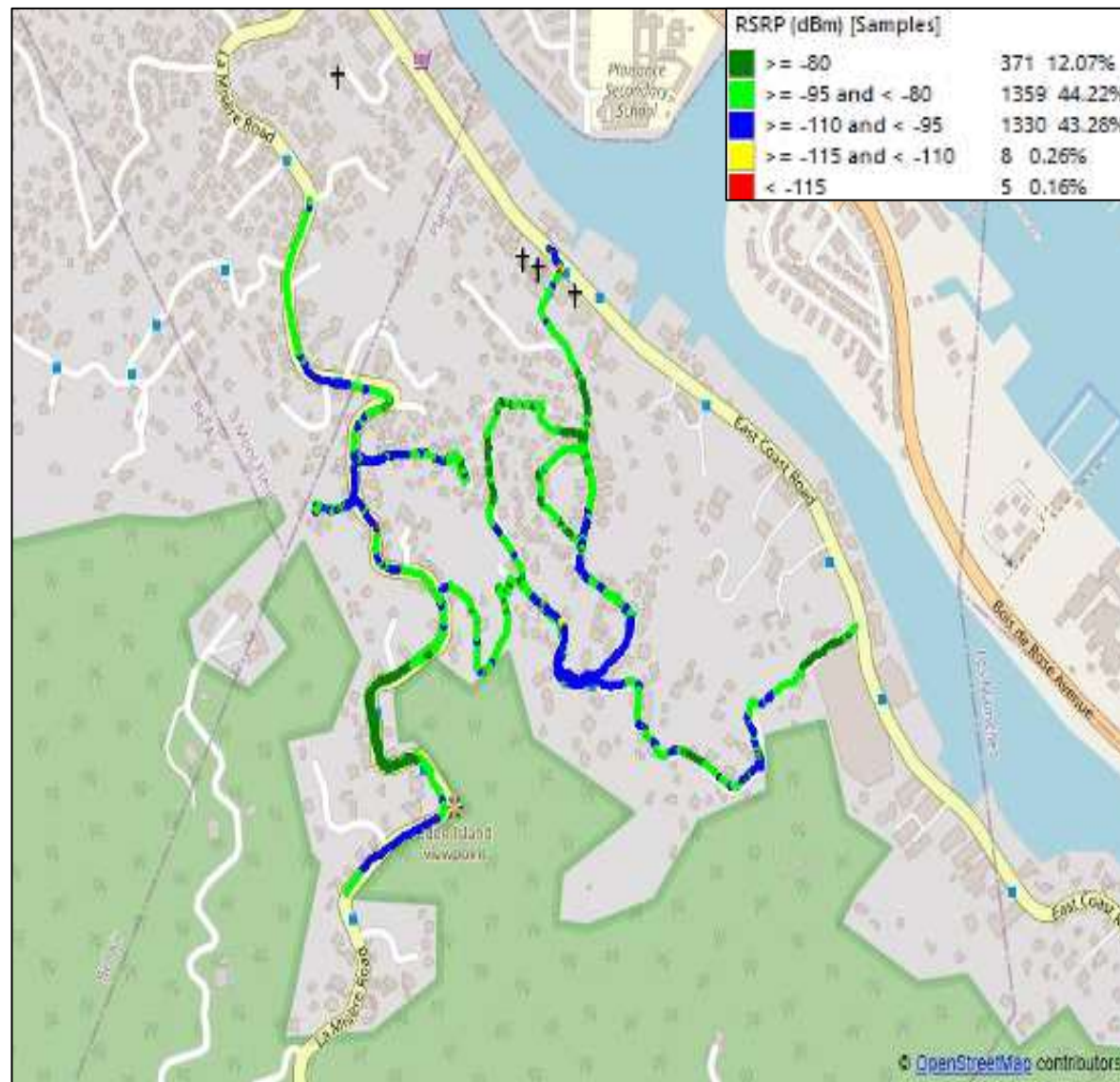




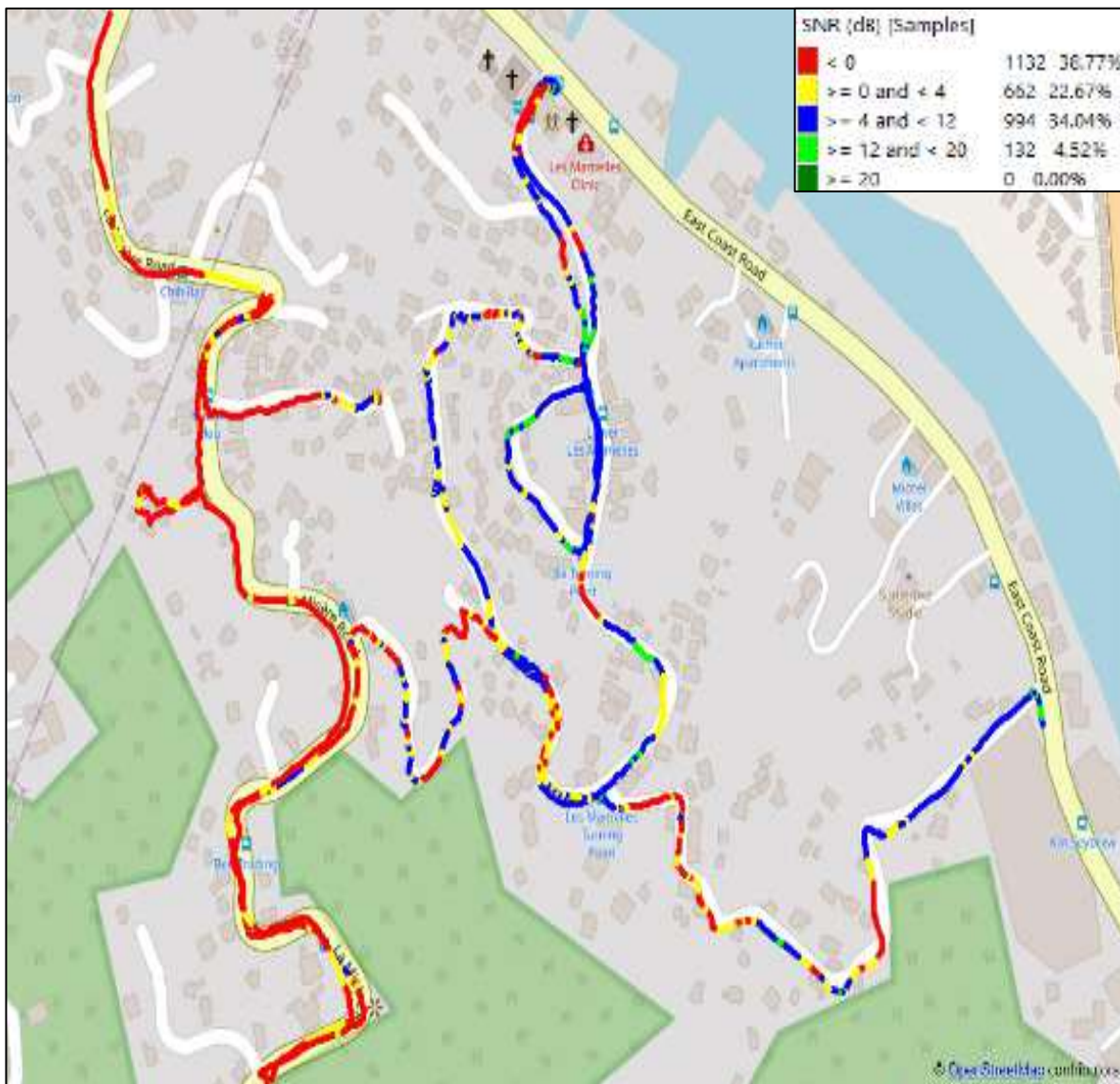
## Airtel Data 4G



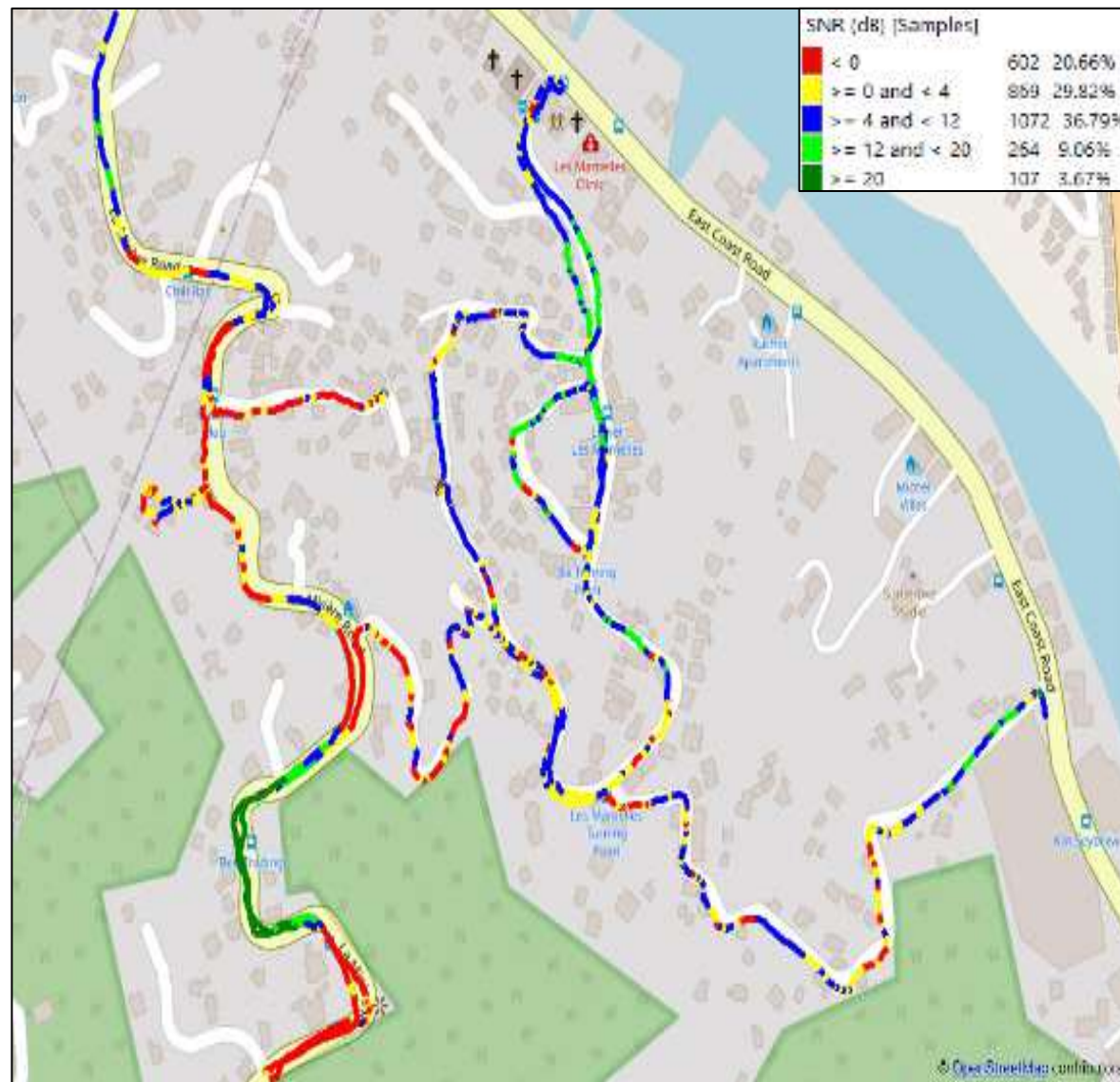
## CWS Data 4G



## Airtel Data 4G

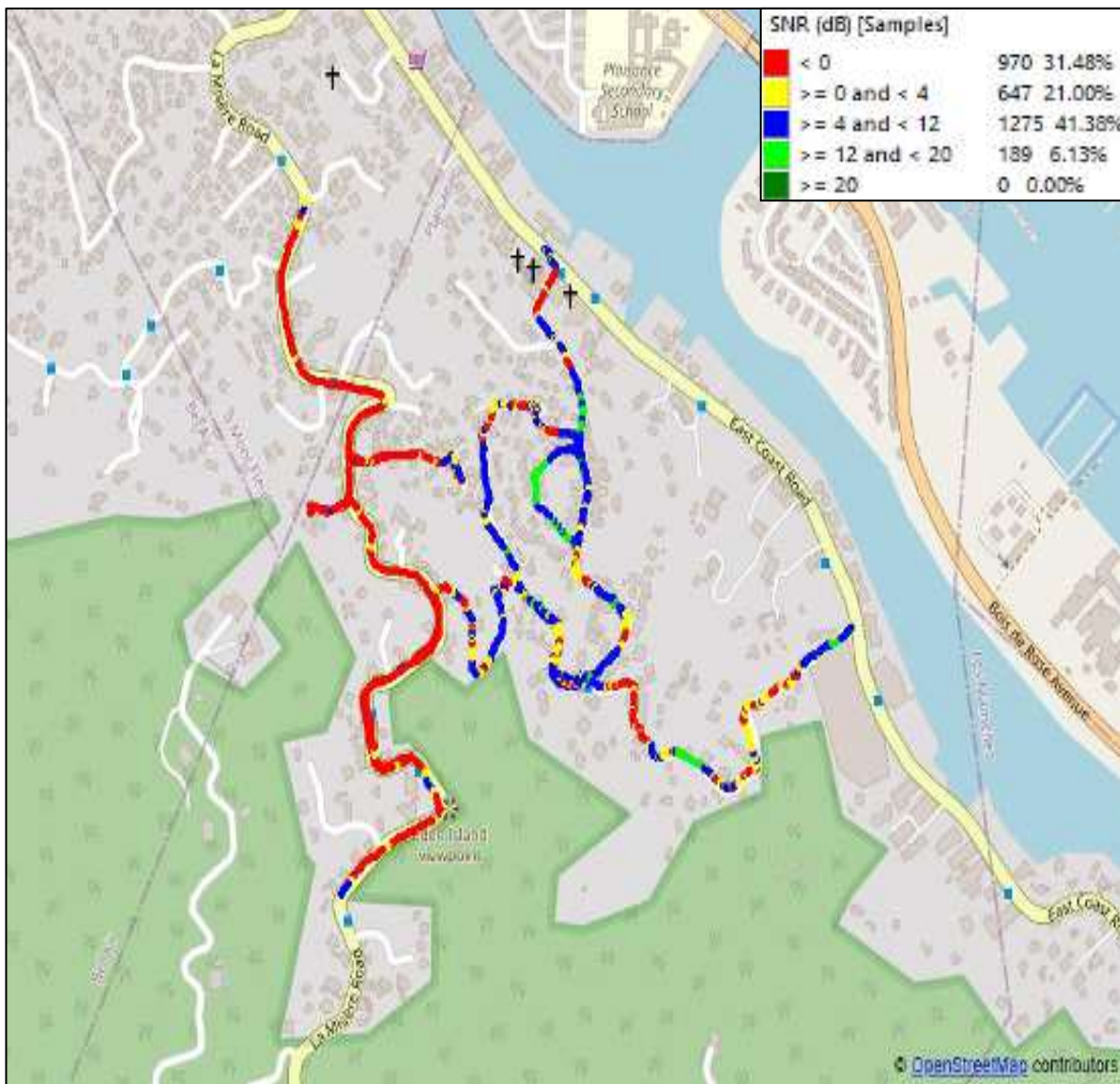


## CWS Data 4G

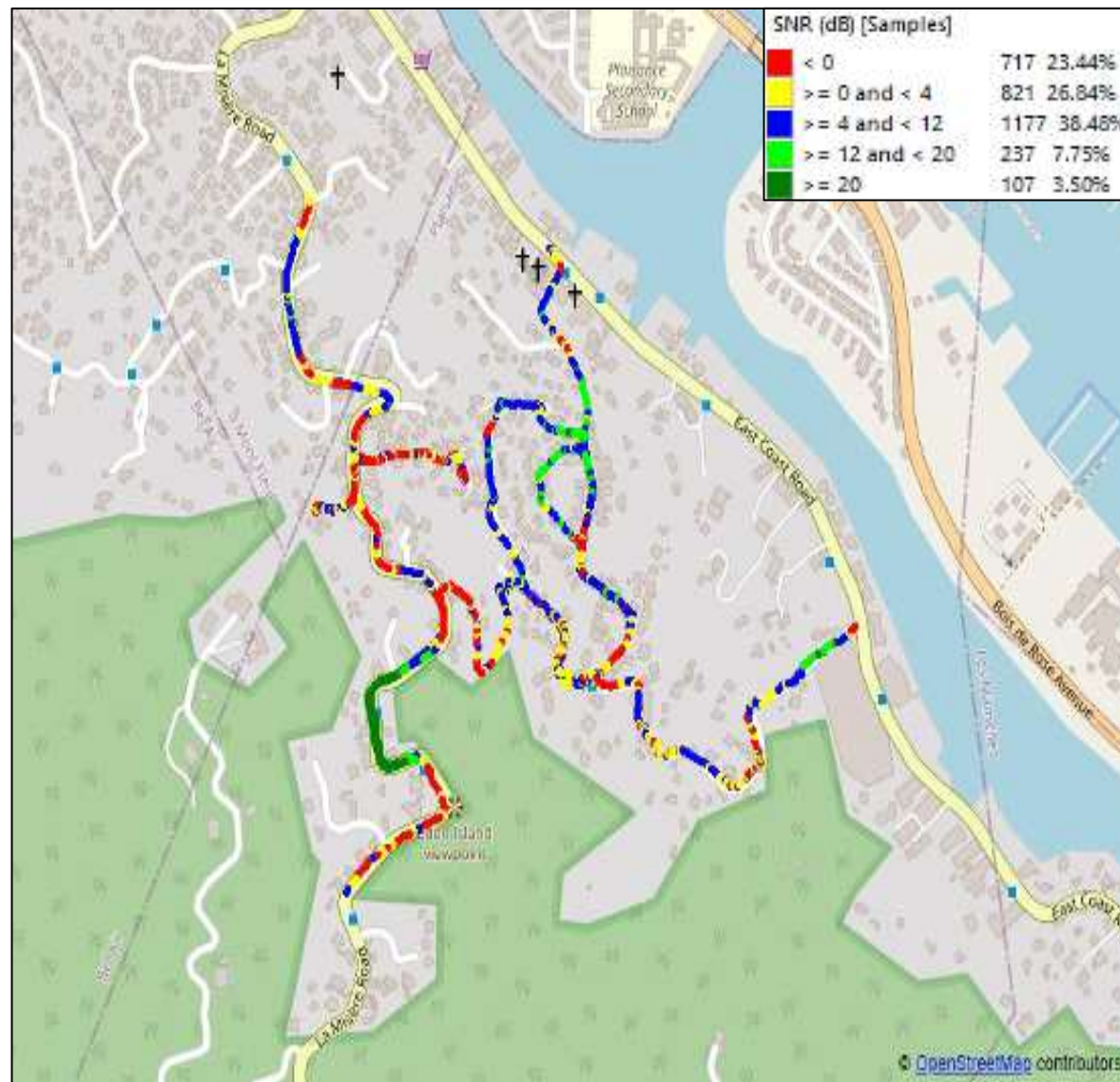




## Airtel Data 4G

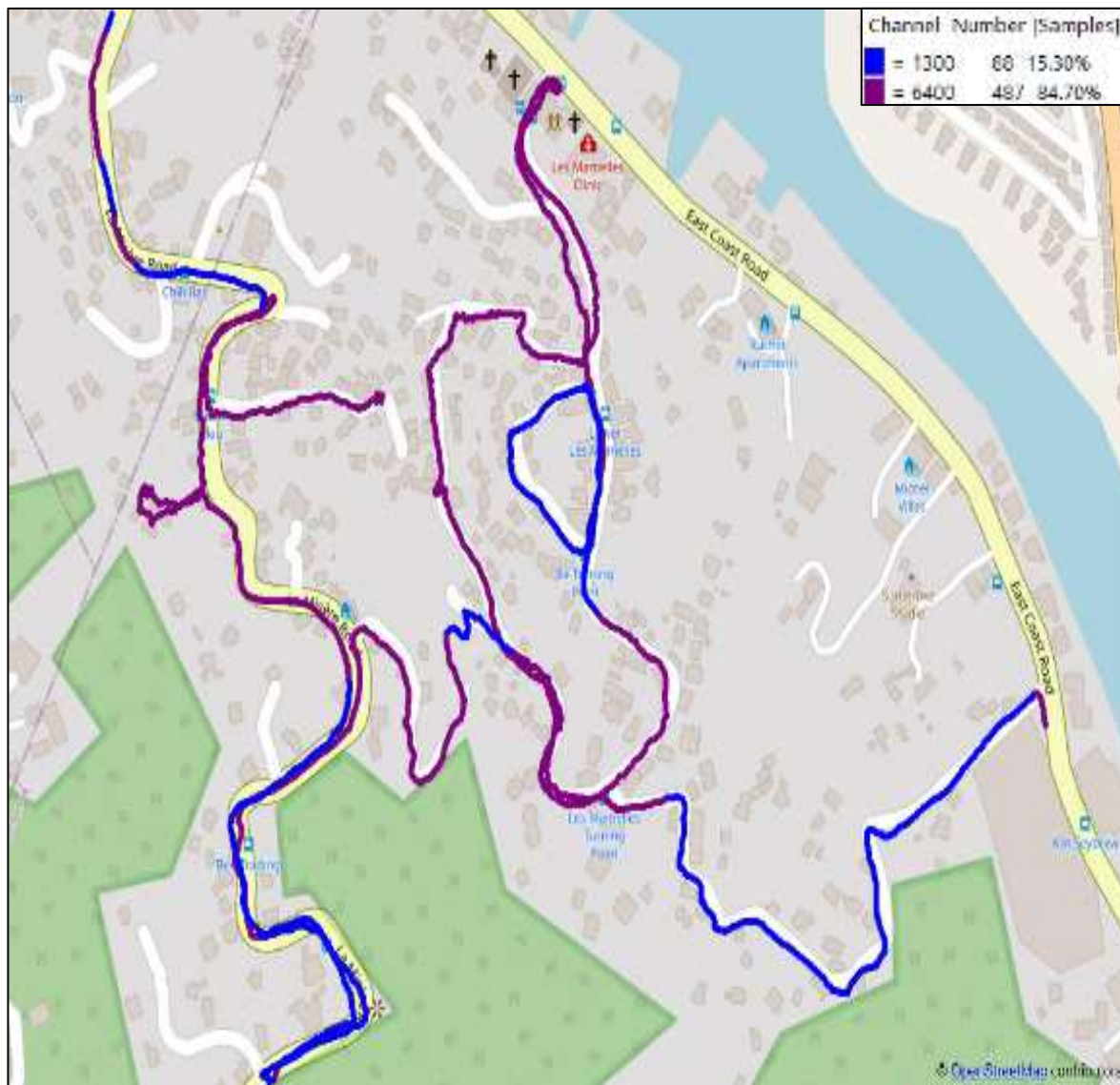


## CWS Data 4G

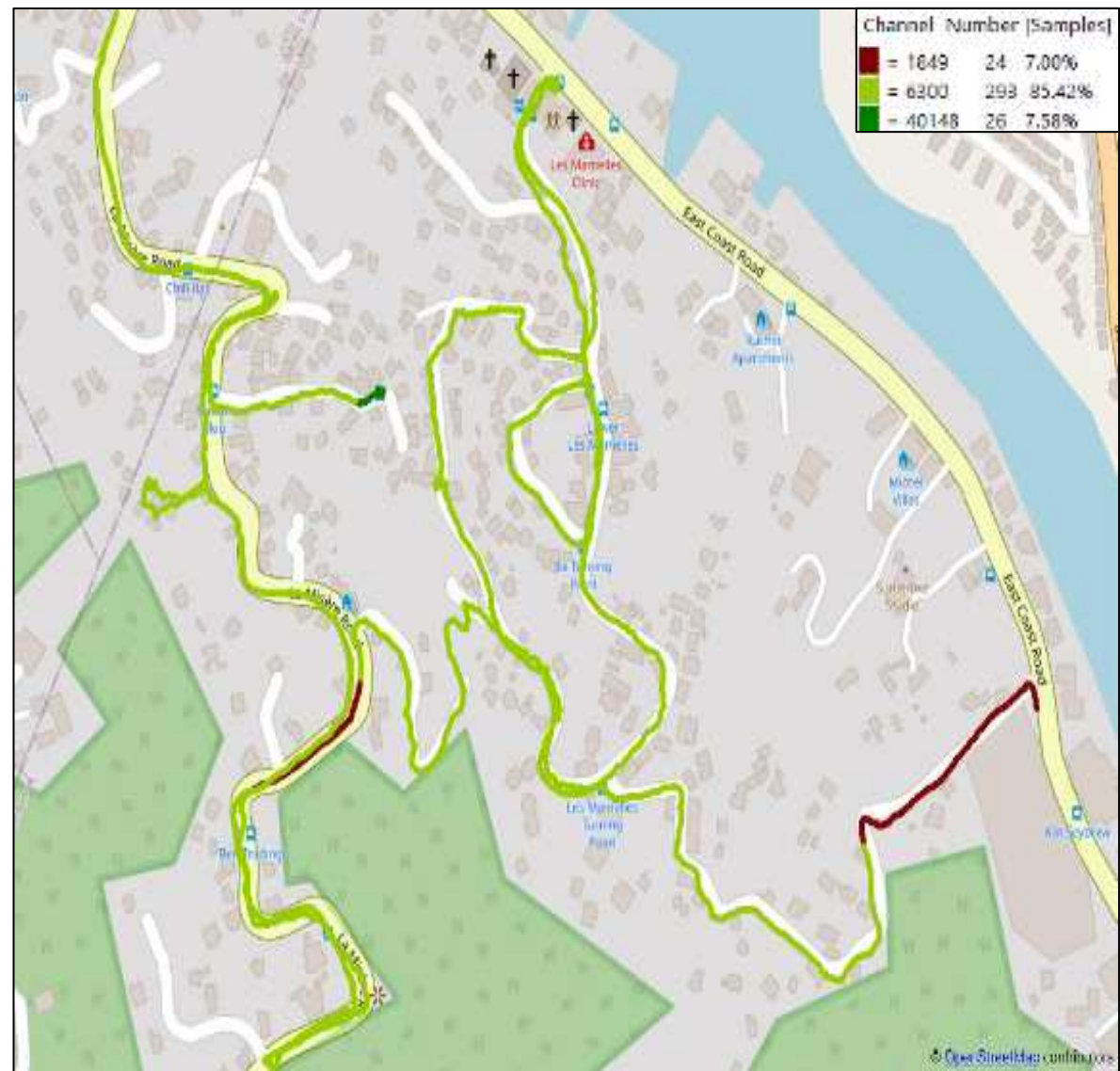




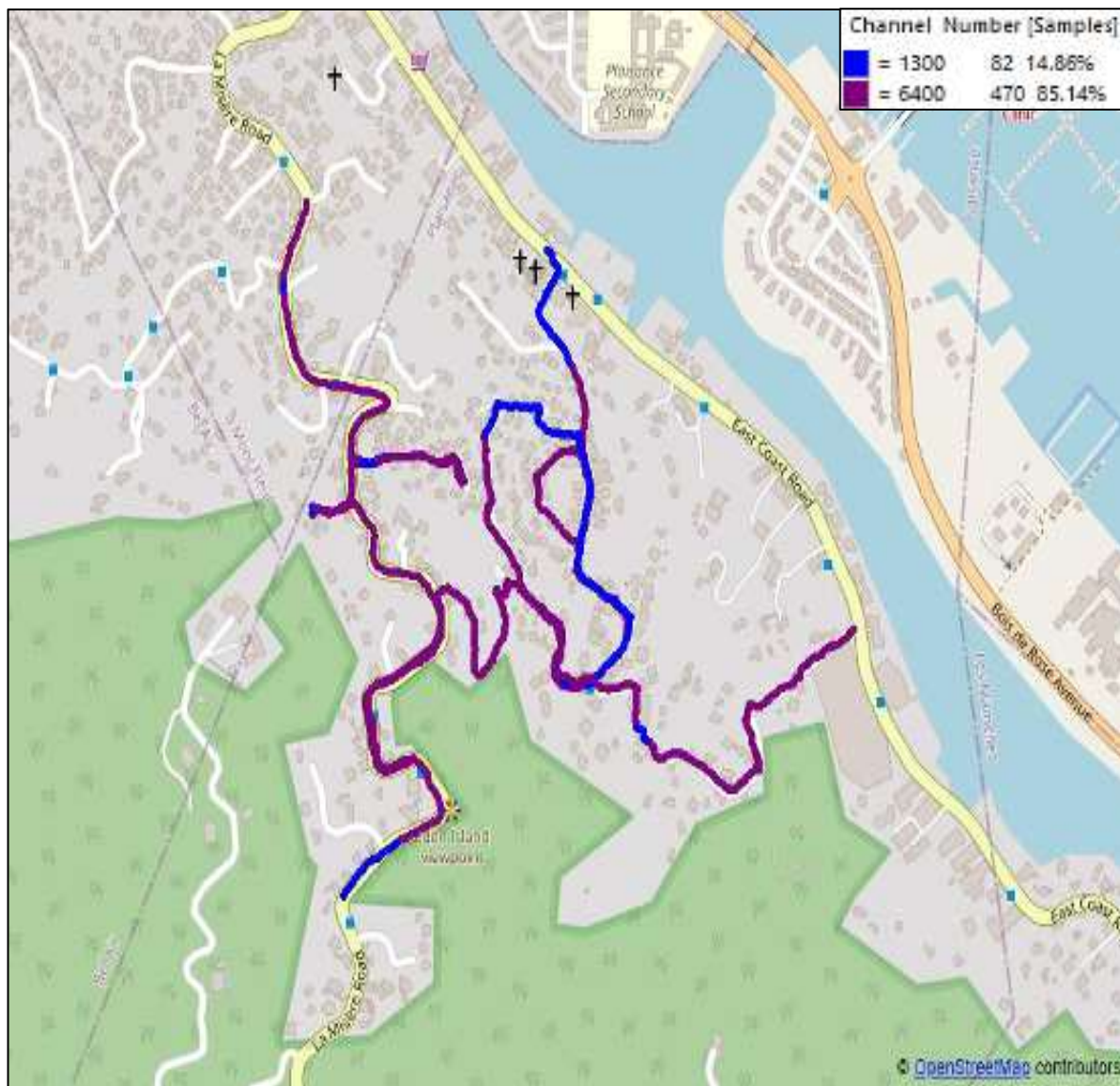
**Airtel Data 4G**



**CWS Data 4G**



## Airtel Data 4G

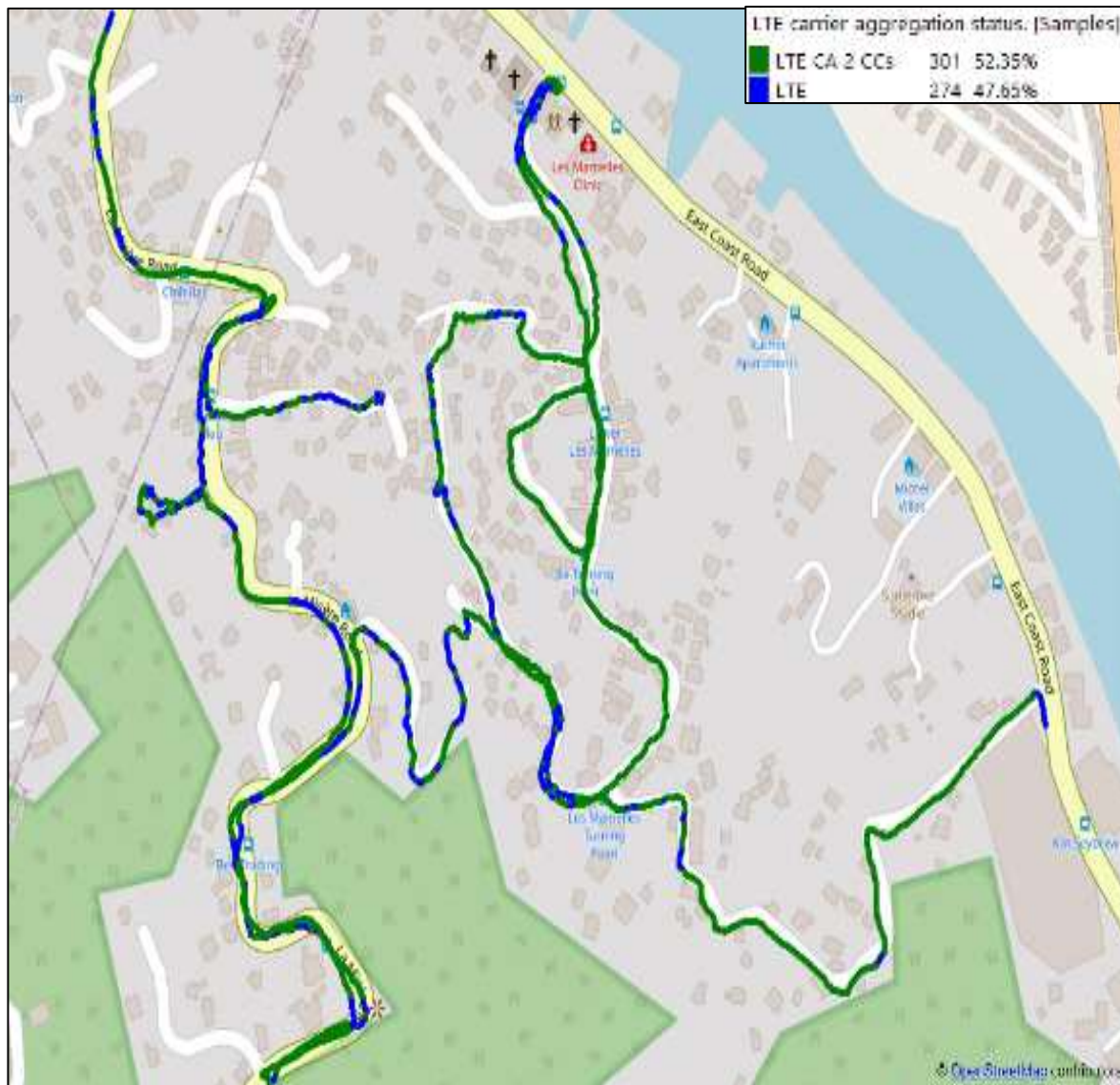


## CWS Data 4G

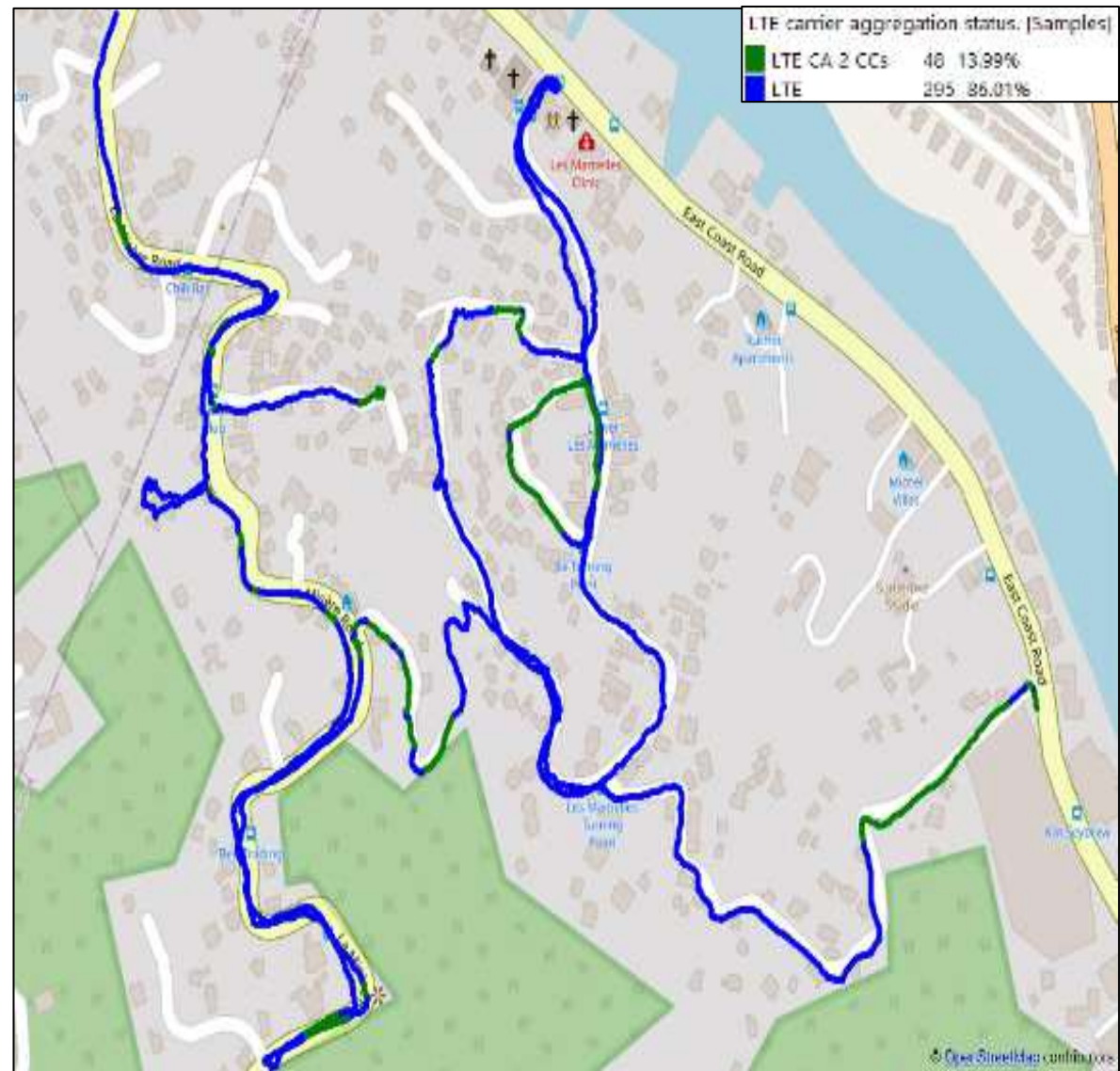




## Airtel Data 4G



## CWS Data 4G





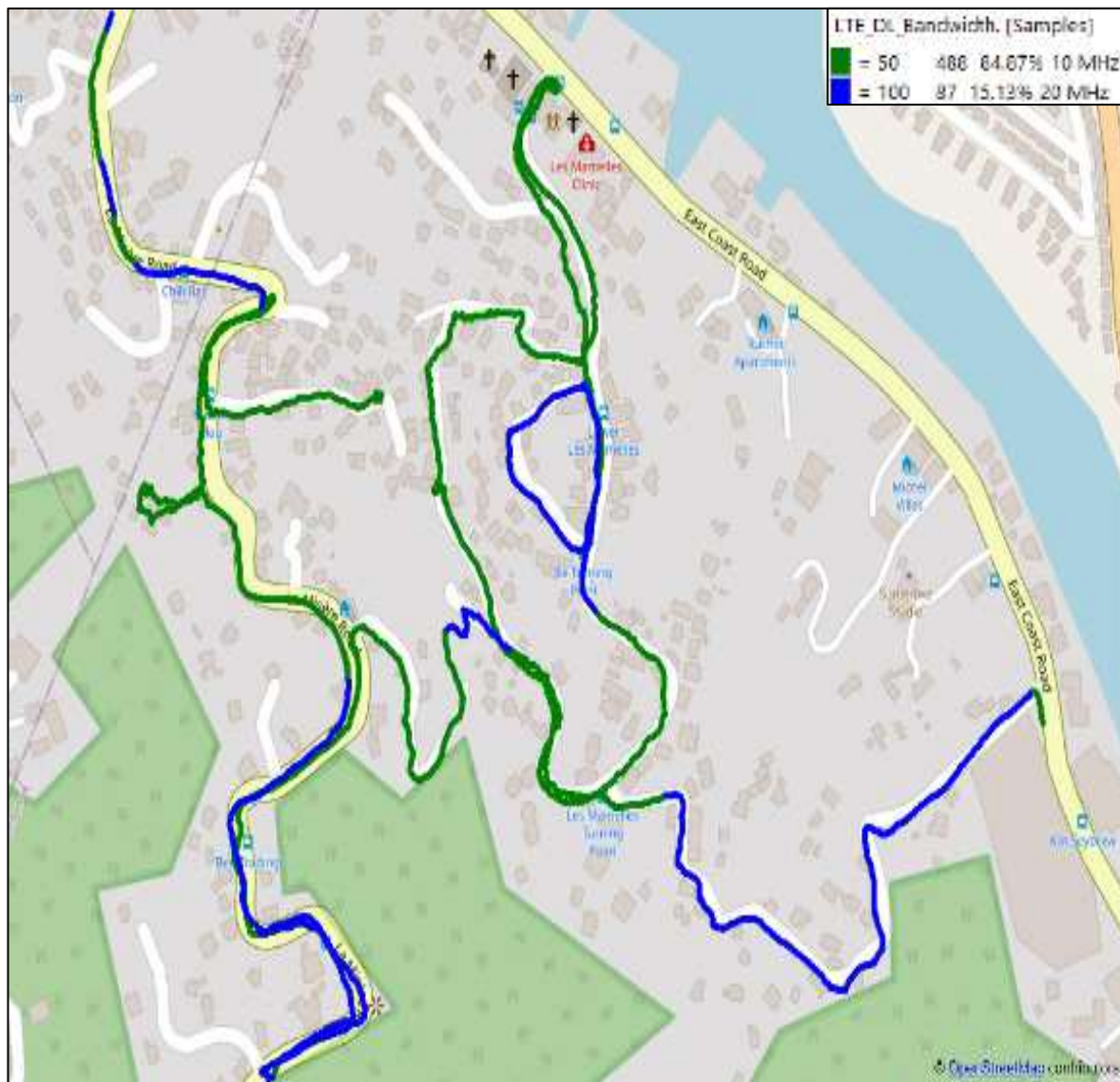
## Airtel Data 4G



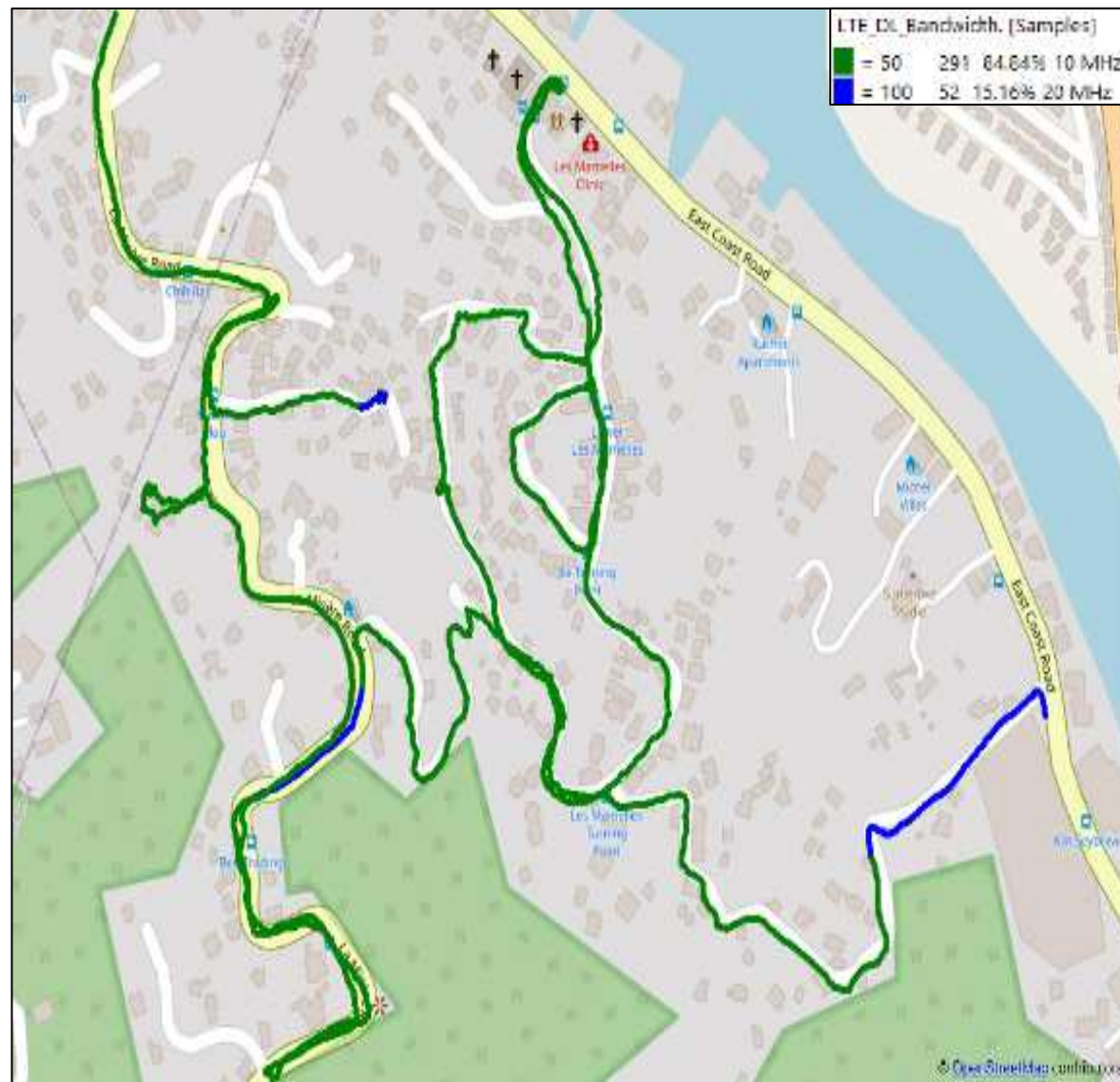
## CWS Data 4G



## 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
<b>Total Call Attempt Failure</b>	<b>1</b>
Poor Coverage	1

Call Attempt Failure cause from CWS	Count
<b>Total Call Attempt Failure</b>	<b>2</b>
Network End	1
Poor Coverage	1

Call Drop cause from Airtel	Count
<b>Total Call Drop</b>	<b>0</b>

Call Drop cause from CWS	Count
<b>Total Call Drop</b>	<b>1</b>
Poor Coverage	1

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

	Time	System	Serving band	Time	RxLev	sub	ARFCN	BSIC	C1	C2	RXQ	sub	System	Trans. dir.	Time	Subchannel	Message name	
1.	11:12:19.195	GSM	900	176.	11:12:02.403	-94	93	56	12	12			5254.	GSM	Uplink	11:12:05.236	DCCH	AUTHENTICATION_RESPONSE
				177.	11:12:02.577	-94	93	56	12	12			5255.	GSM	Uplink	11:12:06.281	SACCH	MEASUREMENT_REPORT
				178.	11:12:03.417	-96	93	56	10	10			5256.	GSM	Downlink	11:12:06.660	SACCH	MEASUREMENT_INFORMATION
				179.	11:12:03.634	-96	93	56	10	10			5257.	GSM	Uplink	11:12:06.752	SACCH	MEASUREMENT_REPORT
				180.	11:12:04.469	-97	93	56	9	9			5258.	GSM	Downlink	11:12:08.830	DCCH	CIPHERING_MODE_COMMAND
				181.	11:12:04.883	-97	93	56	9	9			5259.	GSM	Uplink	11:12:09.825	DCCH	CIPHERING_MODE_COMPLETE
				182.	11:12:05.009	-92	93	56					5260.	GSM	Uplink	11:12:05.025	DCCH	SETUP
				183.	11:12:05.009							7	5261.	GSM	Downlink	11:12:07.140	SACCH	SYSTEM_INFORMATION_TYPE_6
				184.	11:12:06.474	-92	93	56					5262.	GSM	Uplink	11:12:07.223	SACCH	MEASUREMENT_REPORT
				185.	11:12:06.474							0	5263.	GSM	Downlink	11:12:07.301	DCCH	IDENTITY_REQUEST
				186.	11:12:06.835							1	5264.	GSM	Uplink	11:12:07.301	DCCH	IDENTITY_RESPONSE
				187.	11:12:06.836	-94	93	56					5265.	GSM	Downlink	11:12:07.610	SACCH	SYSTEM_INFORMATION_TYPE_3
				188.	11:12:07.223							2	5266.	GSM	Uplink	11:12:07.694	SACCH	MEASUREMENT_REPORT
				189.	11:12:07.402	-92	93	56					5267.	GSM	Uplink	11:12:08.164	SACCH	MEASUREMENT_REPORT
				190.	11:12:07.694							1	5268.	GSM	Downlink	11:12:08.478	DCCH	CALL_PROCEEDING
				191.	11:12:07.772	-92	93	56					5269.	GSM	Downlink	11:12:08.552	SACCH	SYSTEM_INFORMATION_TYPE_6
				192.	11:12:08.164							6	5270.	GSM	Uplink	11:12:08.635	SACCH	MEASUREMENT_REPORT
				193.	11:12:08.635								5271.	GSM	Uplink	11:12:09.106	SACCH	MEASUREMENT_REPORT
				194.	11:12:08.635							3	5272.	GSM	Uplink	11:12:09.577	SACCH	MEASUREMENT_REPORT
				195.	11:12:09.106							7	5273.	GSM	Downlink	11:12:09.964	SACCH	SYSTEM_INFORMATION_TYPE_6
				196.	11:12:09.116	-92	93	56					5274.	GSM	Uplink	11:12:10.047	SACCH	MEASUREMENT_REPORT
				197.	11:12:10.126	-94	93	56					5275.	GSM	Uplink	11:12:10.516	SACCH	MEASUREMENT_REPORT
				198.	11:12:10.596	-94	93	56					5276.	GSM	Uplink	11:12:10.969	SACCH	MEASUREMENT_REPORT
				199.	11:12:11.067	-94	93	56					5277.	GSM	Uplink	11:12:11.460	SACCH	MEASUREMENT_REPORT
				200.	11:12:11.538	-94	93	56					5278.	GSM	Uplink	11:12:11.930	SACCH	MEASUREMENT_REPORT
				201.	11:12:12.009	-95	93	56					5279.	GSM	Uplink	11:12:12.401	SACCH	MEASUREMENT_REPORT
				202.	11:12:12.404	-94	93	56					5280.	GSM	Uplink	11:12:12.872	SACCH	MEASUREMENT_REPORT
				203.	11:12:13.183	-94	93	56					5281.	GSM	Uplink	11:12:13.242	SACCH	MEASUREMENT_REPORT
				204.	11:12:13.667	-94	93	56					5282.	GSM	Uplink	11:12:13.614	SACCH	MEASUREMENT_REPORT
				205.	11:12:14.125	-94	93	56					5283.	GSM	Uplink	11:12:14.264	SACCH	MEASUREMENT_REPORT
				206.	11:12:14.755	-94	93	56					5284.	GSM	Uplink	11:12:14.755	SACCH	MEASUREMENT_REPORT
				207.	11:12:15.775	-94	93	56					5285.	GSM	Uplink	11:12:15.226	SACCH	MEASUREMENT_REPORT
				208.	11:12:16.716	-95	93	56					5286.	GSM	Uplink	11:12:15.606	SACCH	MEASUREMENT_REPORT
				209.	11:12:17.658	-94	93	56					5287.	GSM	Uplink	11:12:16.167	SACCH	MEASUREMENT_REPORT
				210.	11:12:18.676	-94	93	56					5288.	GSM	Uplink	11:12:16.628	SACCH	MEASUREMENT_REPORT
				211.	11:12:19.195								5289.	GSM	Uplink	11:12:17.109	SACCH	MEASUREMENT_REPORT
				212.	11:12:19.677	-94	93	56					5290.	GSM	Uplink	11:12:17.560	SACCH	MEASUREMENT_REPORT
				213.	11:12:20.231	-93	93	56					5291.	GSM	Uplink	11:12:18.050	SACCH	MEASUREMENT_REPORT
				214.	11:12:20.665	-94	93	56					5292.	GSM	Uplink	11:12:18.726	SACCH	MEASUREMENT_REPORT
				215.	11:12:21.156	-94	93	56					5293.	GSM	Uplink	11:12:19.317	SACCH	MEASUREMENT_REPORT
				216.	11:12:21.734	-94	93	56					5294.	GSM	Uplink	11:12:19.491	DCCH	DISCONNECT
				217.	11:12:22.019							7	5295.	GSM	Uplink	11:12:19.666	SACCH	MEASUREMENT_REPORT
				218.	11:12:22.098	-94	93	56					5296.	GSM	Uplink	11:12:20.137	SACCH	MEASUREMENT_REPORT
				219.	11:12:22.490							3	5297.	GSM	Uplink	11:12:20.607	SACCH	MEASUREMENT_REPORT

## Analysis:

- This call failure event occurred on short call at 11:12:19:195 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 93 and RF condition Rx lev -92 dBm is poor and Rx qual 6 dB was very poor.
- As per the Analysis the call setup failure event occurred due to poor coverage of the network.



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

	Time	System	Serving band	Call F:		T. best active RSCP	Time	Ch	SC	T. best r	Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	11:00:31.395	UMTS FDD	2100	Drop	516.		11:00:23.588	10690	202	-11	1730.	RRCSM	Uplink	11:00:24.988	DCCH	UPLINK_DIRECT_TRANSFER
2.	11:00:36.229	UMTS FDD	2100	Drop	517.	-81.3	11:00:24.255	10690	63		1731.	L3SM	Uplink	11:00:24.988	DCCH	MODIFY_PDP_CONTEXT_ACCEPT
					516.		11:00:24.255	10690	63	9	1732.	RRCSM	Uplink	11:00:25.336	DCCH	MEASUREMENT_REPORT
					519.	77.0	11:00:24.774	10690	63		1733.	RRCSM	Uplink	11:00:25.754	DCCH	MEASUREMENT_REPORT
					520.		11:00:24.774	10690	63	8.4	1734.	RRCSM	Uplink	11:00:25.754	DCCH	MEASUREMENT_REPORT
					521.	-75.6	11:00:25.177	10690	63		1735.	RRCSM	Uplink	11:00:26.475	DCCH	MEASUREMENT_REPORT
					522.		11:00:25.177	10690	63	-6	1736.	RRCSM	Uplink	11:00:27.362	DCCH	MEASUREMENT_REPORT
					523.	-79.0	11:00:25.754	10690	63		1737.	RRCSM	Downlink	11:00:27.471	DCCH	ACTIVE_SET_UPDATE
					524.		11:00:25.754	10690	63	-7.5	1738.	RRCSM	Uplink	11:00:27.598	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					525.	-79.2	11:00:26.376	10690	63		1739.	RRCSM	Uplink	11:00:27.774	DCCH	MEASUREMENT_REPORT
					526.		11:00:26.376	10690	63	-6.3	1740.	RRCSM	Downlink	11:00:27.775	DCCH	MEASUREMENT_CONTROL
					527.	73.7	11:00:26.776	10690	63		1741.	RRCSM	Downlink	11:00:27.856	DCCH	ACTIVE_SET_UPDATE
					528.		11:00:26.776	10690	63	5.8	1742.	RRCSM	Uplink	11:00:27.857	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					529.	-74.4	11:00:27.364	10690	63		1743.	RRCSM	Uplink	11:00:28.469	DCCH	MEASUREMENT_REPORT
					530.		11:00:27.364	10690	63	-7.3	1744.	RRCSM	Uplink	11:00:29.173	DCCH	MEASUREMENT_REPORT
					531.	-72.4	11:00:27.857	10690	351		1745.	RRCSM	Uplink	11:00:29.284	DCCH	MEASUREMENT_REPORT
					532.		11:00:27.857	10690	351	-7.3	1746.	RRCSM	Downlink	11:00:29.486	DCCH	ACTIVE_SET_UPDATE
					533.	-72.1	11:00:29.488	10690	63		1747.	RRCSM	Uplink	11:00:29.486	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					534.		11:00:29.488	10690	63	-6.7	1748.	RRCSM	Downlink	11:00:30.374	DCCH	RADIO_BEARER_SETUP
					535.	-74.9	11:00:29.777	10690	63		1749.	RRCSM	Uplink	11:00:30.494	DCCH	MEASUREMENT_REPORT
					536.		11:00:29.777	10690	63	6.5	1750.	RRCSM	Uplink	11:00:30.899	DCCH	RADIO_BEARER_SETUP_COMPLETE
					537.	-72.3	11:00:29.437	10690	63		1751.	RRCSM	Downlink	11:00:31.267	DCCH	MEASUREMENT_CONTROL
					538.		11:00:29.437	10690	63	-5.1	1752.	RRCSM	Downlink	11:00:31.267	DCCH	MEASUREMENT_CONTROL
					539.	-82.0	11:00:29.916	10690	63		1753.	RRCSM	Downlink	11:00:31.267	DCCH	MEASUREMENT_CONTROL
					540.		11:00:29.916	10690	63	-13.6	1754.	RRCSM	Downlink	11:00:31.267	DCCH	MEASUREMENT_CONTROL
					541.	-67.3	11:00:30.485	10690	63		1755.	RRCSM	Downlink	11:00:31.267	DCCH	DOWNLINK_DIRECT_TRANSFER
					542.		11:00:30.485	10690	63	-4.7	1756.	L3SM	Downlink	11:00:31.267	DCCH	DISCONNECT
					543.	-72.6	11:00:30.977	10690	63		1757.	RRCSM	Uplink	11:00:31.395	DCCH	UPLINK_DIRECT_TRANSFER
					544.		11:00:30.977	10690	63	5.4	1758.	L3SM	Uplink	11:00:31.395	DCCH	RELEASE
					545.	-73.2	11:00:31.537	10690	63		1759.	RRCSM	Downlink	11:00:31.755	DCCH	RADIO_BEARER_RELEASE
					546.		11:00:31.537	10690	63	-5.6	1760.	RRCSM	Downlink	11:00:31.756	DCCH	DOWNLINK_DIRECT_TRANSFER
					547.	-74.1	11:00:31.986	10690	63		1761.	L3SM	Downlink	11:00:31.756	DCCH	RELEASE_COMPLETE
					548.		11:00:31.986	10690	63	-7.3	1762.	RRCSM	Uplink	11:00:32.484	DCCH	MEASUREMENT_REPORT
					549.	-73.2	11:00:32.485	10690	63		1763.	RRCSM	Uplink	11:00:32.485	DCCH	MEASUREMENT_REPORT
					550.		11:00:32.485	10690	63	-6.1	1764.	RRCSM	Uplink	11:00:32.657	DCCH	RADIO_BEARER_RELEASE_COMPLETE
					551.	-78.4	11:00:33.095	10690	63		1765.	RRCSM	Downlink	11:00:32.946	DCCH	RRC_CONNECTION_RELEASE
					552.		11:00:33.095	10690	63	9.1	1766.	RRCSM	Uplink	11:00:32.946	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					553.	-84.8	11:01:03.407	10715	111		1767.	RRCSM	Uplink	11:00:32.946	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					554.		11:01:03.407	10715	111	-8.3	1768.	RRCSM	Downlink	11:00:32.947	DCCH	RRC_CONNECTION_RELEASE
					555.	-89.2	11:01:03.859	10715	111		1769.	RRCSM	Downlink	11:00:33.273	BCCH-SCH	MasterInformationBlock
					556.		11:01:03.859	10715	111	-11.8	1770.	RRCSM	Downlink	11:00:33.274	BCCH-SCH	SystemInformationBlockType1
					557.	-79	11:01:04.469	10715	111		1771.	RRCSM	Downlink	11:00:33.274	BCCH-SCH	SystemInformation - SIB2,SIB3
					558.		11:01:04.469	10715	111	-5	1772.	RRCSM	Downlink	11:00:33.274	BCCH-SCH	SystemInformation - SIB5
					559.	-83.8	11:01:05.034	10715	111		1773.	L3SM	Uplink	11:00:33.321		TRACKING_AREA_UPDATE_REQUEST

## Analysis:

- This call failure event occurred on short call at 11:00:31:395 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 63 and RF condition RSCP -72.6 dBm and ECNO -5.4 dB both are good.
- Need to check MT End.



# Phase-1 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
777.	11:00:15.463	B41	2496	40148	173	-89.5			1463.	RRC	Uplink	10:59:51.616	DCCH	RRCConnectionReconfigurationComplete
778.	11:00:15.463						11.9		1464.	RRC	Downlink	10:59:53.213	PCCH	Paging
779.	11:00:16.937	B41	2496	40148	173	-93.6			1465.	RRC	Downlink	10:59:54.493	PCCH	Paging
780.	11:00:16.937						8.4		1466.	RRC	Downlink	10:59:55.773	PCCH	Paging
781.	11:00:17.875	B41	2496	40148	173	-99.8			1467.	RRC	Downlink	10:59:57.053	PCCH	Paging
782.	11:00:17.875						4.5		1468.	RRC	Downlink	10:59:58.333	PCCH	Paging
783.	11:00:19.468	B41	2496	40148	173	-102.9			1469.	RRC	Downlink	10:59:58.334	DCCH	RRCConnectionRelease
784.	11:00:19.468						-4.4		1470.	RRC	Downlink	10:59:59.795	PCCH	Paging
785.	11:00:20.341	B41	2496	40148	31	-99.1			1471.	RRC	Downlink	10:59:59.949	BCCH-SCH	SystemInformationBlockType1
786.	11:00:20.341						-7.9		1472.	RRC	Downlink	10:59:59.988	BCCH-SCH	SystemInformation - SIB5
787.	11:00:21.560	B41	2496	40148	31	-102.2			1473.	RRC	Downlink	11:00:00.108	BCCH-SCH	SystemInformation - SIB2,SIB3
788.	11:00:21.560						3.2		1474.	RRC	Downlink	11:00:06.186	PCCH	Paging
789.	11:00:22.975	B41	2496	40148	31	-110.9			1475.	RRC	Downlink	11:00:08.746	PCCH	Paging
790.	11:00:22.975						-4		1476.	RRC	Downlink	11:00:10.563	PCCH	Paging
791.	11:00:24.160	B41	2496	40148	31	-111.5			1477.	RRC	Downlink	11:00:11.306	PCCH	Paging
792.	11:00:24.160						-3.7		1478.	RRC	Downlink	11:00:12.607	PCCH	Paging
793.	11:00:24.468	B41	2496	40148	31	-111.5			1479.	RRC	Downlink	11:00:13.866	PCCH	Paging
794.	11:00:25.757	B41	2496	40148	31	-106.4			1480.	RRC	Downlink	11:00:16.426	PCCH	Paging
795.	11:00:25.757						3.5		1481.	RRC	Downlink	11:00:17.706	PCCH	Paging
796.	11:00:26.762	B41	2496	40148	31	-113.4			1482.	RRC	Downlink	11:00:18.986	PCCH	Paging
797.	11:00:26.762						-6.9		1483.	RRC	Downlink	11:00:20.329	BCCH-SCH	SystemInformationBlockType1
798.	11:00:28.113	B41	2496	39950	173	-94.7			1484.	RRC	Downlink	11:00:20.428	BCCH-SCH	SystemInformation - SIB2,SIB3
799.	11:00:28.113						-6		1485.	RRC	Downlink	11:00:20.468	BCCH-SCH	SystemInformation - SIB5
800.	11:00:29.467	B41	2496	39950	173	-99.9			1486.	RRC	Downlink	11:00:24.106	PCCH	Paging
801.	11:00:29.467						6.6		1487.	RRC	Downlink	11:00:28.049	BCCH-SCH	SystemInformationBlockType1
802.	11:00:30.510	B41	2496	39950	173	-94.1			1488.	RRC	Downlink	11:00:28.108	BCCH-SCH	SystemInformation - SIB2,SIB3
803.	11:00:30.510						2.3		1489.	RRC	Downlink	11:00:28.148	BCCH-SCH	SystemInformation - SIB5
804.	11:00:32.179	B41	2496	39950	173	-85.8			1490.	RRC	Downlink	11:00:30.506	PCCH	Paging
805.	11:00:32.179						9.1		1491.	RRC	Downlink	11:00:31.786	PCCH	Paging
806.	11:00:33.070	B41	2496	39950	173	-93.9			1492.	RRC	Downlink	11:00:33.066	PCCH	Paging
807.	11:00:33.070						4.5		1493.	RRC	Downlink	11:00:36.906	PCCH	Paging
808.	11:00:34.717	B41	2496	39950	173	-88.8			1494.	RRC	Downlink	11:00:38.186	PCCH	Paging
809.	11:00:34.717						12		1495.	RRC	Downlink	11:00:39.466	PCCH	Paging
810.	11:00:35.630	B41	2496	39950	173	-87.6			1496.	RRC	Downlink	11:00:40.746	PCCH	Paging
811.	11:00:35.630						9		1497.	RRC	Downlink	11:00:42.026	PCCH	Paging
812.	11:00:37.075	B41	2496	39950	173	-87.6			1498.	RRC	Downlink	11:00:43.306	PCCH	Paging
813.	11:00:37.075						4.7		1499.	RRC	Downlink	11:00:45.066	PCCH	Paging
814.	11:00:38.402	B41	2496	39950	173	-85.1			1500.	RRC	Downlink	11:00:48.535	PCCH	Paging
815.	11:00:38.402						8.1		1501.	RRC	Downlink	11:00:49.706	PCCH	Paging
816.	11:00:39.466	B41	2496	39950	173	-91.2			1502.	RRC	Downlink	11:00:50.986	PCCH	Paging
817.	11:00:39.466						9.4		1503.	RRC	Downlink	11:00:52.266	PCCH	Paging
818.	11:00:39.775	B41	2496	39950	173	-91.2			1504.	RRC	Downlink	11:00:54.826	PCCH	Paging
819.	11:00:40.975	B41	2496	39950	173	-89.1			1505.	RRC	Downlink	11:00:59.944	PCCH	Paging

## Analysis:

- On MT End, During the setup fail, UE was latched with PCI 173 and RF condition RSRP -94.1 dBm and SINR 2.3 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-1 Call Attempt Failure Analysis 2 From MS7 CWS MO

	Time	System	Serving band	Call fr.		1. best active RSCP	Time	Ch	SC	1. best c	Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	11:00:31.395	UMTS FDD	2100	Drop	1308		11:09:52.682	10715	202	-10.1	4493	RRCSM	Downlink	11:09:50.910	DCCH	MEASUREMENT_CONTROL
2.	11:09:58.229	UMTS FDD	2100	Drop	1309	-95.8	11:09:53.208	10715	202		4494	RRCSM	Downlink	11:09:50.990	DCCH	DOWNLINK_DIRECT_TRANSFER
					1310		11:09:53.208	10715	202	-9.9	4495	L3SM	Downlink	11:09:50.990	DCCH	MODIFY_PDP_CONTEXT_REQUEST
					1311	03.6	11:09:53.727	10690	202		4496	RRCSM	Uplink	11:09:50.992	DCCH	UPLINK_DIRECT_TRANSFER
					1312		11:09:53.727	10715	202	-5.4	4497	L3SM	Uplink	11:09:50.992	DCCH	MODIFY_PDP_CONTEXT_ACCEPT
					1313	-83.4	11:09:54.219	10715	202		4498	RRCSM	Downlink	11:09:51.350	DCCH	MEASUREMENT_CONTROL
					1314		11:09:54.219	10715	202	-5.3	4499	RRCSM	Uplink	11:09:51.551	DCCH	MEASUREMENT_REPORT
					1315	-84.2	11:09:54.744	10690	202		4500	RRCSM	Uplink	11:09:51.784	DCCH	MEASUREMENT_REPORT
					1316		11:09:54.744	10690	202	-8	4501	RRCSM	Uplink	11:09:52.672	DCCH	MEASUREMENT_REPORT
					1317	-79.7	11:09:55.235	10690	202		4502	RRCSM	Uplink	11:09:53.547	DCCH	MEASUREMENT_REPORT
					1318		11:09:55.235	10715	202	-11	4503	RRCSM	Uplink	11:09:54.335	DCCH	MEASUREMENT_REPORT
					1319	04.9	11:09:55.700	10715	202		4504	RRCSM	Uplink	11:09:54.652	DCCH	MEASUREMENT_REPORT
					1320		11:09:55.700	10715	202	-7.2	4505	RRCSM	Uplink	11:09:54.672	DCCH	MEASUREMENT_REPORT
					1321	-86.8	11:09:56.275	10690	200		4506	RRCSM	Uplink	11:09:56.672	DCCH	MEASUREMENT_REPORT
					1322		11:09:56.275	10715	202	-8.8	4507	RRCSM	Downlink	11:09:56.870	DCCH	RADIO_BEARER_SETUP
					1323	-80	11:09:56.784	10690	200		4508	RRCSM	Uplink	11:09:57.479	DCCH	RADIO_BEARER_SETUP_COMPLETE
					1324		11:09:56.784	10690	200	-9.3	4509	RRCSM	Uplink	11:09:57.515	DCCH	MEASUREMENT_REPORT
					1325	-83.7	11:09:57.390	10690	200		4510	RRCSM	Uplink	11:09:57.642	DCCH	MEASUREMENT_REPORT
					1326		11:09:57.390	10690	200	-9.9	4511	RRCSM	Downlink	11:09:57.710	DCCH	MEASUREMENT_CONTROL
					1327	00.7	11:09:57.022	10690	200		4512	RRCSM	Downlink	11:09:57.750	DCCH	MEASUREMENT_CONTROL
					1328		11:09:57.022	10690	200	-15.7	4513	RRCSM	Downlink	11:09:57.831	DCCH	MEASUREMENT_CONTROL
					1329	-85.9	11:09:58.421	10690	200		4514	RRCSM	Downlink	11:09:57.831	DCCH	MEASUREMENT_CONTROL
					1330		11:09:58.421	10690	200	-13.6	4515	RRCSM	Downlink	11:09:58.071	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION
					1331	-91.5	11:09:58.822	10690	200		4516	RRCSM	Uplink	11:09:58.175	DCCH	MEASUREMENT_REPORT
					1332		11:09:58.822	10715	202	-12.6	4517	RRCSM	Downlink	11:09:58.191	DCCH	DOWNLINK_DIRECT_TRANSFER
					1333	-93.4	11:09:59.395	10690	200		4518	L3SM	Downlink	11:09:58.191	DCCH	DISCONNECT
					1334		11:09:59.395	10715	202	-12.6	4519	RRCSM	Uplink	11:09:58.229	DCCH	UPLINK_DIRECT_TRANSFER
					1335	-94.7	11:09:59.045	10690	200		4520	L3SM	Uplink	11:09:58.229	DCCH	RELEASE
					1336		11:09:59.045	10715	202	-12.6	4521	RRCSM	Downlink	11:09:58.510	DCCH	DOWNLINK_DIRECT_TRANSFER
					1337	-103.2	11:10:00.466	10690	202		4522	L3SM	Downlink	11:09:58.510	DCCH	RELEASE_COMPLETE
					1338		11:10:00.466	10690	202	-25.1	4523	RRCSM	Uplink	11:09:58.838	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION
					1339	-90.7	11:14:12.161	10690	202		4524	RRCSM	Uplink	11:09:59.135	DCCH	MEASUREMENT_REPORT
					1340		11:14:12.161	10690	202	-8.7	4525	RRCSM	Downlink	11:09:59.230	DCCH	RADIO_BEARER_RELEASE
					1341	-87.7	11:14:12.397	10690	202		4526	RRCSM	Uplink	11:09:59.234	DCCH	MEASUREMENT_REPORT
					1342		11:14:12.397	10690	202	-7.3	4527	RRCSM	Uplink	11:10:00.037	DCCH	RADIO_BEARER_RELEASE_COMPLETE
					1343	-85.9	11:14:12.995	10690	202		4528	RRCSM	Downlink	11:10:00.230	DCCH	RRC_CONNECTION_RELEASE
					1344		11:14:12.995	10690	202	7.1	4529	RRCSM	Uplink	11:10:00.231	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					1345	-89.3	11:14:13.553	10690	202		4530	RRCSM	Uplink	11:10:00.271	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					1346		11:14:13.553	10690	202	-13.2	4531	RRCSM	Downlink	11:10:00.310	DCCH	RRC_CONNECTION_RELEASE
					1347	-89.1	11:14:14.272	10690	202		4532	RRCSM	Downlink	11:10:00.458	BCCH-SCH	MasterInformationBlock
					1348		11:14:14.272	10690	202	-8.6	4533	RRCSM	Downlink	11:10:00.488	BCCH-SCH	SystemInformationBlockType1
					1349	-89.2	11:14:14.565	10690	202		4534	RRCSM	Downlink	11:10:00.520	BCCH-SCH	SystemInformation - SIB2,SIB3
					1350		11:14:14.565	10690	202	-7.8	4535	L3SM	Uplink	11:10:00.541		TRACKING_AREA_UPDATE_REQUEST
					1351	-86.1	11:14:15.202	10690	202		4536	RRCSM	Uplink	11:10:00.542	CCCH	RRCConnectionRequest

## Analysis:

- This call failure event occurred on short call at 11:09:58:229 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 200 and RF condition RSCP -85.9 dBm and ECNO -13.6 dB both are good.
- Need to check MT End.



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

	Time	Band	Band [MHz]	Ch	PCI	RSRP	SNR		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1886.	11:09:43.486	B41	2496	39950	2	-115.3			4000.	RRCSM	LTE TDD	Downlink	11:09:29.599	BCCH-SCH	SystemInformationBlockType1
1887.	11:09:43.486						-5.8		4001.	RRCSM	LTE TDD	Downlink	11:09:29.922	BCCH-SCH	SystemInformation - SIB5
1888.	11:09:44.143	B41	2496	39950	2	-115.3			4002.	RRCSM	LTE TDD	Downlink	11:09:29.923	BCCH-SCH	SystemInformation - SIB2,SIB3
1889.	11:09:45.144	B41	2496	39950	145	-105			4003.	RRCSM	LTE TDD	Downlink	11:09:30.421	BCCH-SCH	SystemInformationBlockType1
1890.	11:09:45.144						-10.5		4004.	RRCSM	LTE TDD	Downlink	11:09:31.078	PCCH	Paging
1891.	11:09:46.679	B41	2496	39950	145	-104.3			4005.	RRCSM	LTE TDD	Downlink	11:09:32.398	PCCH	Paging
1892.	11:09:46.679						-3.5		4006.	RRCSM	LTE TDD	Downlink	11:09:33.322	PCCH	Paging
1893.	11:09:47.879	B41	2496	39950	145	-115.4			4007.	RRCSM	LTE TDD	Downlink	11:09:38.473	BCCH-SCH	SystemInformationBlockType1
1894.	11:09:47.879						-7.3		4008.	RRCSM	LTE TDD	Downlink	11:09:38.473	BCCH-SCH	SystemInformation - SIB2,SIB3
1895.	11:09:48.846	B41	2496	39950	145	-118.6			4009.	RRCSM	LTE TDD	Downlink	11:09:38.473	BCCH-SCH	SystemInformation - SIB5
1896.	11:09:48.846						-11.7		4010.	RRCSM	LTE TDD	Downlink	11:09:42.475	PCCH	Paging
1897.	11:09:49.046	B41	2496	39950	145	-118.6			4011.	RRCSM	LTE TDD	Downlink	11:09:44.919	BCCH-SCH	SystemInformationBlockType1
1898.	11:09:50.237	B41	2496	40148	5	-110.6			4012.	RRCSM	LTE TDD	Downlink	11:09:45.143	BCCH-SCH	SystemInformation - SIB2,SIB3
1899.	11:09:50.237						-10.6		4013.	RRCSM	LTE TDD	Downlink	11:09:45.342	BCCH-SCH	SystemInformation - SIB5
1900.	11:09:51.379	B41	2496	40148	5	-108.1			4014.	RRCSM	LTE TDD	Downlink	11:09:45.959	BCCH-SCH	SystemInformationBlockType1
1901.	11:09:51.379						-5.1		4015.	RRCSM	LTE TDD	Downlink	11:09:50.093	BCCH-SCH	SystemInformationBlockType1
1902.	11:09:52.480	B41	2496	40148	5	-119.1			4016.	RRCSM	LTE TDD	Downlink	11:09:50.235	BCCH-SCH	SystemInformation - SIB5
1903.	11:09:52.480						-5.9		4017.	RRCSM	LTE TDD	Downlink	11:09:50.237	BCCH-SCH	SystemInformation - SIB2,SIB3
1904.	11:09:53.078	B41	2496	40148	182	-116.1			4018.	RRCSM	LTE TDD	Downlink	11:09:51.062	BCCH-SCH	SystemInformationBlockType1
1905.	11:09:54.179	B41	2496	40148	182	-119			4019.	RRCSM	LTE TDD	Downlink	11:09:52.602	BCCH-SCH	SystemInformationBlockType1
1906.	11:09:54.179						-5.2		4020.	RRCSM	LTE TDD	Downlink	11:09:52.635	BCCH-SCH	SystemInformation - SIB2,SIB3
1907.	11:09:54.599	B41	2496	40148	182	-119			4021.	RRCSM	LTE TDD	Downlink	11:09:53.040	BCCH-SCH	SystemInformation - SIB5
1908.	11:09:55.172	B41	2496	40148	2	-110.7			4022.	RRCSM	LTE TDD	Downlink	11:09:53.472	BCCH-SCH	SystemInformationBlockType1
1909.	11:09:55.172						-4.4		4023.	RRCSM	LTE TDD	Downlink	11:09:53.979	PCCH	Paging
1910.	11:09:56.684	B41	2496	40148	2	-106.8			4024.	RRCSM	LTE TDD	Downlink	11:09:55.168	BCCH-SCH	SystemInformationBlockType1
1911.	11:09:56.684						0.7		4025.	RRCSM	LTE TDD	Downlink	11:09:55.169	BCCH-SCH	SystemInformation - SIB2,SIB3
1912.	11:09:58.083	B41	2496	40148	2	-107.6			4026.	RRCSM	LTE TDD	Downlink	11:09:55.602	BCCH-SCH	SystemInformation - SIB5
1913.	11:09:58.083						3		4027.	RRCSM	LTE TDD	Downlink	11:09:56.183	BCCH-SCH	SystemInformationBlockType1
1914.	11:09:59.225	B41	2496	40148	2	-105.1			4028.	RRCSM	LTE TDD	Downlink	11:10:00.319	PCCH	Paging
1915.	11:09:59.225						7.9		4029.	RRCSM	LTE TDD	Downlink	11:10:02.940	PCCH	Paging
1916.	11:10:00.319	B41	2496	40148	2	-105.1			4030.	RRCSM	LTE TDD	Downlink	11:10:04.199	PCCH	Paging
1917.	11:10:00.319						6.2		4031.	L3SM	LTE TDD	Uplink	11:10:04.374		SERVICE_REQUEST
1918.	11:10:00.881	B41	2496	40148	2	-105.1			4032.	RRCSM	LTE TDD	Uplink	11:10:04.374	CCCH	RRCConnectionRequest
1919.	11:10:01.802	B41	2496	40148	2	-105.4			4033.	RRCSM	LTE TDD	Downlink	11:10:04.375	CCCH	RRCConnectionSetup
1920.	11:10:01.802						8.2		4034.	RRCSM	LTE TDD	Uplink	11:10:04.376	DCCH	RRCConnectionSetupComplete
1921.	11:10:02.941	B41	2496	40148	2	-110.8			4035.	RRCSM	LTE TDD	Downlink	11:10:04.400	DCCH	SecurityModeCommand
1922.	11:10:02.941						2.3		4036.	RRCSM	LTE TDD	Uplink	11:10:04.400	DCCH	SecurityModeComplete
1923.	11:10:03.338	B41	2496	40148	2	-110.8			4037.	RRCSM	LTE TDD	Downlink	11:10:04.400	DCCH	RRCConnectionReconfiguration
1924.	11:10:04.614	B41	2496	40148	2	-121.8			4038.	RRCSM	LTE TDD	Uplink	11:10:04.440	DCCH	RRCConnectionReconfigurationComplete
1925.	11:10:04.614						-2.7		4039.	RRCSM	LTE TDD	Downlink	11:10:04.472	DCCH	UEInformationRequest
1926.	11:10:05.148	B41	2496	40148	2	-123.2			4040.	RRCSM	LTE TDD	Uplink	11:10:04.472	DCCH	UEInformationResponse
1927.	11:10:05.148						-2.4		4041.	RRCSM	LTE TDD	Downlink	11:10:04.472	DCCH	UECapabilityEnquiry
1928.	11:10:05.678	B41	2496	40148	2	-122.1			4042.	RRCSM	LTE TDD	Uplink	11:10:04.472	DCCH	UECapabilityInformation

## Analysis:

- On MT End, During the setup fail, UE was latched with PCI 2 and RF condition RSRP -107.6 dBm which is poor and SINR 3 dB it is ok.
- As per the analysis call failed happened due to poor coverage of the network.



# Phase-1 Call Drop Analysis 1 From MS11 CWS MO

Time	System	Serving band	Call type	1. best active RSCP	Time	Ch	SC	1. bes	System	Transf. dir.	Time	Subchannel	Message name
11:10:10.701	UMTS FDD	2100	Voice call		11:10:15.710	10740	200	-15	UMTS FDD	Uplink	11:10:15.235	DCCH	MEASUREMENT_REPORT
					11:10:15.710	10740	200	-15	UMTS FDD	Uplink	11:10:15.710	DCCH	MEASUREMENT_REPORT
				-105.6	11:10:16.074	10740	200		UMTS FDD	Uplink	11:10:15.712	DCCH	MEASUREMENT_REPORT
					11:10:16.074	10740	200	-16	UMTS FDD	Uplink	11:10:16.074	DCCH	MEASUREMENT_REPORT
				-103	11:10:16.077	10740	200		UMTS FDD	Uplink	11:10:16.075	DCCH	INITIAL_DIRECT_TRANSFER
					11:10:16.077	10740	90	-9.7	UMTS FDD	Uplink	11:10:16.075	DCCH	SERVICE_REQUEST
				-103	11:10:16.409	10740	200		UMTS FDD	Uplink	11:10:16.409	DCCH	MEASUREMENT_REPORT
					11:10:16.409	10740	90	-9.7	UMTS FDD	Uplink	11:10:16.409	DCCH	MEASUREMENT_REPORT
				-103	11:10:16.414	10740	200		UMTS FDD	Uplink	11:10:16.414	DCCH	MEASUREMENT_REPORT
					11:10:16.414	10740	90	-9.7	UMTS FDD	Downlink	11:10:16.414	DCCH	SECURITY_MODE_COMMAND
				-102	11:10:16.533	10740	200		UMTS FDD	Uplink	11:10:16.414	DCCH	SECURITY_MODE_COMPLETE
					11:10:16.533	10740	200	-10.6	UMTS FDD	Uplink	11:10:16.943	DCCH	MEASUREMENT_REPORT
				-102	11:10:16.943	10740	700		UMTS FDD	Downlink	11:10:17.134	DCCH	RADIO_BEARER_SETUP
					11:10:16.943	10740	200	-10.6	UMTS FDD	Uplink	11:10:17.134	DCCH	MEASUREMENT_REPORT
				-102	11:10:17.134	10740	200		UMTS FDD	Uplink	11:10:17.431	DCCH	MEASUREMENT_REPORT
				-105.5	11:10:17.134	10740	90		UMTS FDD	Uplink	11:10:17.781	DCCH	RADIO_BEARER_SETUP_COMPLETE
					11:10:17.134	10740	200	-10.6	UMTS FDD	Uplink	11:10:17.782	DCCH	MEASUREMENT_REPORT
					11:10:17.134	10740	90	-12.3	UMTS FDD	Downlink	11:10:18.093	DCCH	MEASUREMENT_CONTROL
				-105.5	11:10:17.431	10740	90		UMTS FDD	Downlink	11:10:18.093	DCCH	MEASUREMENT_CONTROL
					11:10:17.431	10740	90	-12.3	UMTS FDD	Downlink	11:10:18.094	DCCH	DOWNLINK_DIRECT_TRANSFER
				-100.0	11:10:17.600	10740	90		UMTS FDD	Downlink	11:10:18.094	DCCH	MODIFY_PDP_CONTEXT_REQUEST
					11:10:17.600	10740	90	-15.9	UMTS FDD	Uplink	11:10:18.094	DCCH	UPLINK_DIRECT_TRANSFER
				-103.8	11:10:17.782	10740	90		UMTS FDD	Uplink	11:10:18.094	DCCH	MODIFY_PDP_CONTEXT_ACCEPT
					11:10:17.782	10740	90	-15.9	UMTS FDD	Uplink	11:10:18.408	DCCH	MEASUREMENT_REPORT
				-102.1	11:10:18.095	10740	90		UMTS FDD	Uplink	11:10:18.408	DCCH	MEASUREMENT_REPORT
					11:10:18.095	10740	90	-12.1	UMTS FDD	Uplink	11:10:18.409	DCCH	MEASUREMENT_REPORT
				-102.1	11:10:18.408	10740	90		UMTS FDD	Uplink	11:10:18.781	DCCH	MEASUREMENT_REPORT
				-102.1	11:10:18.408	10740	90		UMTS FDD	Downlink	11:10:18.781	DCCH	DOWNLINK_DIRECT_TRANSFER
					11:10:18.408	10740	90	-12.1	UMTS FDD	Downlink	11:10:18.781	DCCH	DISCONNECT
				-102.1	11:10:18.409	10740	90		UMTS FDD	Uplink	11:10:18.781	DCCH	UPLINK_DIRECT_TRANSFER
					11:10:18.409	10740	90	-12.1	UMTS FDD	Uplink	11:10:19.134	DCCH	MEASUREMENT_REPORT
				-102.1	11:10:18.781	10740	90		UMTS FDD	Uplink	11:10:19.321	DCCH	MEASUREMENT_REPORT
					11:10:18.781	10740	90	-12.1	UMTS FDD	Downlink	11:10:19.321	DCCH	RADIO_BEARER_RELEASE
				-105.3	11:10:18.781	10740	90	-12.1	UMTS FDD	Downlink	11:10:19.321	DCCH	DOWNLINK_DIRECT_TRANSFER
					11:10:18.703	10740	90		UMTS FDD	Downlink	11:10:19.321	DCCH	RELEASE_COMPLETE
				-105.3	11:10:18.793	10740	200	-12.2	UMTS FDD	Downlink	11:10:19.321	DCCH	RELEASE_COMPLETE
					11:10:18.793	10740	200	-12.2	UMTS FDD	Uplink	11:10:19.794	DCCH	MEASUREMENT_REPORT
				-105.3	11:10:19.134	10740	90		UMTS FDD	Uplink	11:10:20.248	DCCH	RADIO_BEARER_RELEASE_COMPLETE
					11:10:19.134	10740	200	-12.2	UMTS FDD	Uplink	11:10:20.248	DCCH	RADIO_BEARER_RELEASE_COMPLETE
				-105.3	11:10:19.321	10740	90		UMTS FDD	Uplink	11:10:20.249	DCCH	MEASUREMENT_REPORT
					11:10:19.321	10740	200	-12.2	UMTS FDD	Downlink	11:10:20.250	DCCH	RRC_CONNECTION_RELEASE
				-68.7	11:10:19.322	10740	200		UMTS FDD	Uplink	11:10:20.250	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					11:10:19.322	10740	200	0.7	UMTS FDD	Uplink	11:10:20.250	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					11:10:18.781	10740	90	-12.1	UMTS FDD	Uplink	11:10:18.781	DCCH	RELEASE

## Analysis:

- This call drop event occurred on long call at 11:10:18:781 time when UE was latched with 3G network.
- After getting Alerting message at 11:09:39:215 time than Call drop happened.
- During the session UE was latched with PSC 90 and RF condition RSCP - 102.1 dBm and Ec/No -12.1 dB both are ok.
- Need to check MT End.



# Phase-1 Call Drop Analysis 1 From MS12 CWS MT

	Time	RxLev	sub	ARFCN	BSIC	C1	C2	LAC	RAC	RXQ	sub	Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1000.	11:10:04.364	-95		26	9			1	10			3190.	L35M	GSM	Uplink	11:10:06.676	SACCH	MEASUREMENT_REPORT
1001.	11:10:04.861	-95		26	9			1	10			3191.	L35M	GSM	Uplink	11:10:07.156	SACCH	MEASUREMENT_REPORT
1002.	11:10:05.402	-95		26	9			1	10			3192.	L35M	GSM	Uplink	11:10:07.636	SACCH	MEASUREMENT_REPORT
1003.	11:10:05.716	-95		26	9			1	10			3193.	L35M	GSM	Uplink	11:10:08.116	SACCH	MEASUREMENT_REPORT
1004.	11:10:06.196	-95		26	9			1	10			3194.	L35M	GSM	Uplink	11:10:08.596	SACCH	MEASUREMENT_REPORT
1005.	11:10:06.676	-97		26	9			1	10			3195.	L35M	GSM	Downlink	11:10:09.030	SACCH	SYSTEM_INFORMATION_TYPE_6
1006.	11:10:07.461	-97		26	9			1	10			3196.	L35M	GSM	Uplink	11:10:09.076	SACCH	MEASUREMENT_REPORT
1007.	11:10:07.636	-95		26	9			1	10			3197.	L35M	GSM	Uplink	11:10:09.556	SACCH	MEASUREMENT_REPORT
1008.	11:10:08.116	-97		26	9			1	10			3198.	L35M	GSM	Uplink	11:10:10.036	SACCH	MEASUREMENT_REPORT
1009.	11:10:08.822	-95		26	9			1	10			3199.	L35M	GSM	Uplink	11:10:10.516	SACCH	MEASUREMENT_REPORT
1010.	11:10:09.474	-97		26	9			1	10			3200.	L35M	GSM	Uplink	11:10:10.996	SACCH	MEASUREMENT_REPORT
1011.	11:10:10.036	-95		26	9			1	10			3201.	L35M	GSM	Uplink	11:10:11.476	SACCH	MEASUREMENT_REPORT
1012.	11:10:10.996	-98		26	9			1	10			3202.	L35M	GSM	Uplink	11:10:11.956	SACCH	MEASUREMENT_REPORT
1013.	11:10:12.104	-95		26	9			1	10			3203.	L35M	GSM	Uplink	11:10:12.436	SACCH	MEASUREMENT_REPORT
1014.	11:10:12.482	-98		26	9			1	10			3204.	L35M	GSM	Uplink	11:10:12.916	SACCH	MEASUREMENT_REPORT
1015.	11:10:12.921	-97		26	9			1	10			3205.	L35M	GSM	Uplink	11:10:13.396	SACCH	MEASUREMENT_REPORT
1016.	11:10:13.474	-95		26	9			1	10			3206.	L35M	GSM	Uplink	11:10:13.876	SACCH	MEASUREMENT_REPORT
1017.	11:10:13.904	-95		26	9			1	10			3207.	L35M	GSM	Uplink	11:10:14.356	SACCH	MEASUREMENT_REPORT
1018.	11:10:14.504	-97		26	9			1	10			3208.	L35M	GSM	Uplink	11:10:14.836	SACCH	MEASUREMENT_REPORT
1019.	11:10:14.841	-98		26	9			1	10			3209.	L35M	GSM	Uplink	11:10:15.316	SACCH	MEASUREMENT_REPORT
1020.	11:10:15.584	-97		26	9			1	10			3210.	L35M	GSM	Uplink	11:10:15.796	SACCH	MEASUREMENT_REPORT
1021.	11:10:16.041	-98		26	9			1	10			3211.	L35M	GSM	Uplink	11:10:16.276	SACCH	MEASUREMENT_REPORT
1022.	11:10:16.484	-98		26	9			1	10			3212.	L35M	GSM	Uplink	11:10:16.756	SACCH	MEASUREMENT_REPORT
1023.	11:10:17.001	-97		26	9			1	10			3213.	L35M	GSM	Uplink	11:10:17.236	SACCH	MEASUREMENT_REPORT
1024.	11:10:17.799	-97		26	9			1	10			3214.	L35M	GSM	Uplink	11:10:17.716	SACCH	MEASUREMENT_REPORT
1025.	11:10:18.302	-97		26	9			1	10			3215.	L35M	GSM	Uplink	11:10:18.196	SACCH	MEASUREMENT_REPORT
1026.	11:10:18.704	-95		26	9			1	10			3216.	L35M	GSM	Uplink	11:10:18.676	SACCH	MEASUREMENT_REPORT
1027.	11:10:19.472	-97		26	9			1	10			3217.	L35M	GSM	Uplink	11:10:19.156	SACCH	MEASUREMENT_REPORT
1028.	11:10:19.636	-95		26	9			1	10			3218.	L35M	GSM	Uplink	11:10:19.636	SACCH	MEASUREMENT_REPORT
1029.	11:10:20.473	-98		26	9			1	10			3219.	L35M	GSM	Uplink	11:10:20.116	SACCH	MEASUREMENT_REPORT
1030.	11:10:20.601	-95		26	9			1	10			3220.	L35M	GSM	Uplink	11:10:20.596	SACCH	MEASUREMENT_REPORT
1031.	11:10:21.464	-95		26	9			1	10			3221.	L35M	GSM	Uplink	11:10:21.076	SACCH	MEASUREMENT_REPORT
1032.	11:10:21.722											3222.	L35M	GSM	Uplink	11:10:21.529	DCCH	CM_RE_ESTABLISHMENT_REQUEST
1033.	11:10:23.764									7		3223.	L35M	GSM	Downlink	11:10:21.864	BCCH	SYSTEM_INFORMATION_TYPE_3
1034.	11:10:23.965	-48		15	10			1				3224.	L35M	GSM	Downlink	11:10:22.096	BCCH	SYSTEM_INFORMATION_TYPE_4
1035.	11:10:24.540											3225.	L35M	GSM	Downlink	11:10:22.334	BCCH	SYSTEM_INFORMATION_TYPE_1
1036.	11:10:25.413	-48		15	10			1	0			3226.	L35M	GSM	Downlink	11:10:22.569	BCCH	SYSTEM_INFORMATION_TYPE_2
1037.	11:10:25.907							1	0			3227.	L35M	GSM	Downlink	11:10:22.804	BCCH	SYSTEM_INFORMATION_TYPE_3
1038.	11:10:26.138									0		3228.	L35M	GSM	Downlink	11:10:22.924	CCCH	IMMEDIATE_ASSIGNMENT
1039.	11:10:26.473	-48		15	10			1	0			3229.	L35M	GSM	Downlink	11:10:23.193	SACCH	SYSTEM_INFORMATION_TYPE_5
1040.	11:10:26.848	-48		15	10			1	0			3230.	L35M	GSM	Uplink	11:10:23.354	DCCH	CLASSMARK_CHANGE
1041.	11:10:28.021	-48		15	10			1	0			3231.	L35M	GSM	Uplink	11:10:23.355	DCCH	UTRAN_CLASSMARK_CHANGE
1042.	11:10:28.491	-55		15	10			1	0			3232.	L35M	GSM	Uplink	11:10:23.355	DCCH	GPRS_SUSPENSION_REQUEST

## Analysis:

- During the session UE was latched with ARFCN 26 and RF condition Rx lev -96 dBm is poor and Rx qual 0 dB which was ok.
- As per the Analysis the call drop event occurred due to poor coverage of the network.



# 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	2
Poor Quality	2

Call Drop cause from Airtel	Count
Total Call Drop	0

Call Drop cause from CWS	Count
Total Call Drop	0

# Phase-2 Call Attempt Failure Analysis 1 From MS5 Airtel MO

	Time	System	Serving band	Call	1. best active RSCP	Time	Ch	SC	1. best ▲	Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	16:07:03.923	UMTS FDD	2100	Dro	3065.	16:06:45.999	10562	413	-13.6	10762.	RRCSM	Downlink	16:06:54.973	DCCH	DOWNLINK_DIRECT_TRANSFER
					3066.	16:06:46.541	10562	144		10763.	L3SM	Downlink	16:06:54.973	DCCH	AUTHENTICATION_REQUEST
					3067.	16:06:46.541	10562	144	-16.5	10764.	RRCSM	Uplink	16:06:55.070	DCCH	UPLINK_DIRECT_TRANSFER
					3068.	16:06:47.106	10562	413		10765.	L3SM	Uplink	16:06:55.070	DCCH	AUTHENTICATION_RESPONSE
					3069.	16:06:47.106	10562	413	-15.6	10766.	RRCSM	Downlink	16:06:55.248	DCCH	SECURITY_MODE_COMMAND
					3070.	16:06:47.581	10562	16		10767.	RRCSM	Uplink	16:06:55.248	DCCH	SECURITY_MODE_COMPLETE
					3071.	16:06:47.581	10562	16	-12.5	10768.	RRCSM	Uplink	16:06:55.424	DCCH	UPLINK_DIRECT_TRANSFER
					3072.	16:06:48.086	10562	0		10769.	L3SM	Uplink	16:06:55.424	DCCH	SETUP
					3073.	16:06:48.086	10562	0	-12.7	10770.	RRCSM	Downlink	16:06:55.426	DCCH	DOWNLINK_DIRECT_TRANSFER
					3074.	16:06:48.497	10562	0		10771.	L3SM	Downlink	16:06:55.426	DCCH	IDENTITY_REQUEST
					3075.	16:06:48.497	10562	0	-25.2	10772.	RRCSM	Uplink	16:06:55.426	DCCH	UPLINK_DIRECT_TRANSFER
					3076.	16:06:49.668	10562	0		10773.	L3SM	Uplink	16:06:55.426	DCCH	IDENTITY_RESPONSE
					3077.	16:06:49.668	10562	0	-25.2	10774.	RRCSM	Downlink	16:06:55.670	DCCH	DOWNLINK_DIRECT_TRANSFER
					3078.	16:06:50.298	10562	0		10775.	L3SM	Downlink	16:06:55.670	DCCH	CALL_PROCEEDING
					3079.	16:06:50.298	10562	0	-25.2	10776.	RRCSM	Downlink	16:06:56.910	DCCH	RADIO_BEARER_SETUP
					3080.	16:06:51.736	10562	413		10777.	RRCSM	Uplink	16:06:57.208	DCCH	RADIO_BEARER_SETUP_COMPLETE
					3081.	16:06:51.736	10562	413	-17.3	10778.	RRCSM	Uplink	16:06:57.209	DCCH	MEASUREMENT_REPORT
					3082.	16:06:52.206	10562	413		10779.	RRCSM	Downlink	16:06:57.465	DCCH	MEASUREMENT_CONTROL
					3083.	16:06:52.206	10562	413	-15.7	10780.	RRCSM	Downlink	16:06:57.657	DCCH	MEASUREMENT_CONTROL
					3084.	16:06:52.691	10562	413		10781.	RRCSM	Downlink	16:06:57.659	DCCH	RADIO_BEARER_RECONFIGURATION
					3085.	16:06:52.691	10562	413	-15.5	10782.	RRCSM	Uplink	16:06:57.729	DCCH	RADIO_BEARER_RECONFIGURATION_COMPLETE
					3086.	16:06:53.318	10562	413		10783.	RRCSM	Downlink	16:06:57.730	DCCH	DOWNLINK_DIRECT_TRANSFER
					3087.	16:06:53.318	10562	413	-12.4	10784.	L3SM	Downlink	16:06:57.730	DCCH	PROGRESS
					3088.	16:06:53.841	10562	413		10785.	RRCSM	Downlink	16:06:57.995	DCCH	ACTIVE_SET_UPDATE
					3089.	16:06:53.841	10562	413	-11.1	10786.	RRCSM	Uplink	16:06:57.998	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					3090.	16:06:54.340	10562	413		10787.	RRCSM	Downlink	16:06:58.125	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3091.	16:06:54.340	10562	413	-11.6	10788.	RRCSM	Downlink	16:06:58.126	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3092.	16:06:54.974	10562	413		10789.	RRCSM	Downlink	16:06:58.126	BCCH	SCHEDULING_BLOCK_1
					3093.	16:06:54.974	10562	413	-11.9	10790.	RRCSM	Downlink	16:06:58.128	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3094.	16:06:55.426	10562	485		10791.	RRCSM	Downlink	16:06:58.128	BCCH	MASTER_INFORMATION_BLOCK
					3095.	16:06:55.426	10562	485	-15.5	10792.	RRCSM	Downlink	16:06:58.128	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3096.	16:06:56.063	10562	413		10793.	RRCSM	Downlink	16:06:58.128	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					3097.	16:06:56.063	10562	413	-13	10794.	RRCSM	Downlink	16:06:58.128	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					3098.	16:06:56.425	10562	413		10795.	RRCSM	Downlink	16:06:58.128	BCCH_BCH	SYSTEM_INFORMATION_BCH
					3099.	16:06:56.425	10562	413	-10	10796.	RRCSM	Downlink	16:06:58.128	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_1
					3100.	16:06:57.060	10562	413		10797.	RRCSM	Downlink	16:06:58.464	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION

## Analysis:

- This call failure event occurred on short call at 16:07:03:923 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 485 and RF condition RSCP -99.3 dBm good but Ec/No -15.5 dB are very poor.
- As per the analysis call failed happened due to poor quality of the network.



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

	Time	System	Serving band	Call	Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sub	Transf. dir.	Time	Subchannel	Message name	
1.	15:50:33.021	GSM	900	Dro	111.	15:50:27.268	-81	15	10	1		3158.	Downlink	15:50:24.466	SACCH	SYSTEM_INFORMATION_TYPE_5TER
2.	15:54:55.906	UMTS FDD	2100	Dro	112.	15:50:27.469					6	3159.	Uplink	15:50:24.467	SACCH	MEASUREMENT_REPORT
					113.	15:50:27.750			1			3160.	Downlink	15:50:24.927	SACCH	SYSTEM_INFORMATION_TYPE_6
					114.	15:50:27.950					2	3161.	Uplink	15:50:24.927	SACCH	MEASUREMENT_REPORT
					115.	15:50:28.227					2	3162.	Downlink	15:50:25.199	SACCH	MEASUREMENT_INFORMATION
					116.	15:50:28.422	-77	15	10	1		3163.	Uplink	15:50:25.199	SACCH	MEASUREMENT_REPORT
					117.	15:50:28.693					0	3164.	Downlink	15:50:25.868	SACCH	MEASUREMENT_INFORMATION
					118.	15:50:28.891	-78	15	10	1		3165.	Uplink	15:50:25.869	SACCH	MEASUREMENT_REPORT
					119.	15:50:29.266					3	3166.	Downlink	15:50:26.140	SACCH	MEASUREMENT_INFORMATION
					120.	15:50:29.267	-78	15	10	1		3167.	Uplink	15:50:26.140	SACCH	MEASUREMENT_REPORT
					121.	15:50:29.638					6	3168.	Downlink	15:50:26.889	SACCH	SYSTEM_INFORMATION_TYPE_5
					122.	15:50:29.833	-76	15	10	1		3169.	Uplink	15:50:26.889	SACCH	MEASUREMENT_REPORT
					123.	15:50:30.067					7	3170.	Downlink	15:50:27.266	SACCH	SYSTEM_INFORMATION_TYPE_5TER
					124.	15:50:30.266	-77	15	10	1		3171.	Uplink	15:50:27.469	SACCH	MEASUREMENT_REPORT
					125.	15:50:30.577					6	3172.	Downlink	15:50:27.750	SACCH	SYSTEM_INFORMATION_TYPE_6
					126.	15:50:30.775	-76	15	10	1		3173.	Uplink	15:50:27.950	SACCH	MEASUREMENT_REPORT
					127.	15:50:31.046					4	3174.	Downlink	15:50:28.225	SACCH	MEASUREMENT_INFORMATION
					128.	15:50:31.466	-82	15	10	1		3175.	Uplink	15:50:28.227	SACCH	MEASUREMENT_REPORT
					129.	15:50:31.784					2	3176.	Downlink	15:50:28.692	SACCH	MEASUREMENT_INFORMATION
					130.	15:50:31.983	-79	15	10	1		3177.	Uplink	15:50:28.693	SACCH	MEASUREMENT_REPORT
					131.	15:50:32.194					6	3178.	Downlink	15:50:29.266	SACCH	MEASUREMENT_INFORMATION
					132.	15:50:32.400					5	3179.	Uplink	15:50:29.266	SACCH	MEASUREMENT_REPORT
					133.	15:50:32.596	-86	15	10	1		3180.	Downlink	15:50:29.638	SACCH	SYSTEM_INFORMATION_TYPE_5
					134.	15:50:33.020					7	3181.	Uplink	15:50:29.638	SACCH	MEASUREMENT_REPORT
					135.	15:50:33.033	-86	25	10	1		3182.	Uplink	15:50:30.067	SACCH	MEASUREMENT_REPORT
					136.	15:50:33.281						3183.	Downlink	15:50:30.577	SACCH	SYSTEM_INFORMATION_TYPE_6
					137.	16:03:54.449	-79	19	38	1		3184.	Uplink	15:50:30.577	SACCH	MEASUREMENT_REPORT
					138.	16:03:54.449					7	3185.	Downlink	15:50:31.045	SACCH	MEASUREMENT_INFORMATION
					139.	16:03:54.597					0	3186.	Uplink	15:50:31.046	SACCH	MEASUREMENT_REPORT
					140.	16:03:55.390	-82	19	38	1		3187.	Downlink	15:50:31.466	SACCH	MEASUREMENT_INFORMATION
					141.	16:03:55.984	-81	19	38	1		3188.	Uplink	15:50:31.784	SACCH	MEASUREMENT_REPORT
					142.	16:03:56.480	-80	19	38	1		3189.	Downlink	15:50:31.983	SACCH	MEASUREMENT_INFORMATION
					143.	16:03:56.817					1	3190.	Uplink	15:50:32.194	SACCH	MEASUREMENT_REPORT
					144.	16:03:56.985	-82	19	38	1		3191.	Downlink	15:50:32.400	SACCH	SYSTEM_INFORMATION_TYPE_5
					145.	16:03:57.287					0	3192.	Uplink	15:50:32.400	SACCH	MEASUREMENT_REPORT
					146.	16:03:57.421	-81	19	38	1		3193.	Downlink	15:50:32.400	DCCH	ASSIGNMENT_COMMAND

### Analysis:

- This call failure event occurred on short call at 15:50:33:021 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 15 and RF condition Rx lev -86 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 2 From MS7 CWS MO

	Time	System	Serving band	Call	1. best active RSCP	Time	Ch	SC	1. best ▲		System	Transf. dir.	Time	Subchannel	Message name	
1.	15:50:33.021	GSM	900	Dro	1120.						4006.	UMTS FDD	Uplink	15:54:43.856	DCCH	MEASUREMENT_REPORT
2.	15:54:55.906	UMTS FDD	2100	Dro	1121.	-104.1	15:54:48.398	10715	202		4007.	UMTS FDD	Uplink	15:54:45.921	DCCH	MEASUREMENT_REPORT
					1122.		15:54:48.398	10715	202	-16.3	4008.	UMTS FDD	Uplink	15:54:46.103	DCCH	MEASUREMENT_REPORT
					1123.	-103.4	15:54:48.860	10715	200		4009.	UMTS FDD	Uplink	15:54:46.384	DCCH	MEASUREMENT_REPORT
					1124.		15:54:48.860	10715	200	-18.5	4010.	UMTS FDD	Downlink	15:54:46.787	DCCH	DOWNLINK_DIRECT_TRANSFER
					1125.	-98.3	15:54:49.416	10715	200		4011.	UMTS FDD	Downlink	15:54:46.787	DCCH	AUTHENTICATION_AND_CIPHERING_REQUEST
					1126.		15:54:49.416	10715	200	-11.3	4012.	UMTS FDD	Uplink	15:54:46.787	DCCH	UPLINK_DIRECT_TRANSFER
					1127.	-94.6	15:54:49.927	10715	202		4013.	UMTS FDD	Uplink	15:54:46.787	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE
					1128.		15:54:49.927	10715	202	-9.4	4014.	UMTS FDD	Uplink	15:54:46.926	DCCH	MEASUREMENT_REPORT
					1129.	-100.9	15:54:50.405	10715	202		4015.	UMTS FDD	Downlink	15:54:47.105	DCCH	SECURITY_MODE_COMMAND
					1130.		15:54:50.405	10715	202	-12.1	4016.	UMTS FDD	Uplink	15:54:47.105	DCCH	SECURITY_MODE_COMPLETE
					1131.	-101.9	15:54:51.015	10715	202		4017.	UMTS FDD	Downlink	15:54:47.786	DCCH	DOWNLINK_DIRECT_TRANSFER
					1132.		15:54:51.015	10715	202	-12.7	4018.	UMTS FDD	Downlink	15:54:47.786	DCCH	ROUTING_AREA_UPDATE_ACCEPT
					1133.	-106.7	15:54:51.405	10715	200		4019.	UMTS FDD	Uplink	15:54:47.787	DCCH	UPLINK_DIRECT_TRANSFER
					1134.		15:54:51.405	10715	200	-17.3	4020.	UMTS FDD	Uplink	15:54:47.787	DCCH	ROUTING_AREA_UPDATE_COMPLETE
					1135.	-100.8	15:54:51.986	10715	200		4021.	UMTS FDD	Uplink	15:54:48.034	DCCH	MEASUREMENT_REPORT
					1136.		15:54:51.986	10715	200	-11.7	4022.	UMTS FDD	Downlink	15:54:48.398	DCCH	ACTIVE_SET_UPDATE
					1137.	-96.5	15:54:52.623	10715	200		4023.	UMTS FDD	Uplink	15:54:48.398	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					1138.		15:54:52.623	10715	200	-7.7	4024.	UMTS FDD	Downlink	15:54:48.655	DCCH	MEASUREMENT_CONTROL
					1139.	-104.5	15:54:52.926	10715	200		4025.	UMTS FDD	Uplink	15:54:48.858	DCCH	MEASUREMENT_REPORT
					1140.		15:54:52.926	10715	200	-14.5	4026.	UMTS FDD	Uplink	15:54:49.030	DCCH	MEASUREMENT_REPORT
					1141.	-109.6	15:54:53.618	10715	200		4027.	UMTS FDD	Downlink	15:54:49.032	DCCH	ACTIVE_SET_UPDATE
					1142.		15:54:53.618	10715	200	-18.8	4028.	UMTS FDD	Uplink	15:54:49.032	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					1143.	-101.7	15:54:54.035	10715	200		4029.	UMTS FDD	Downlink	15:54:49.541	DCCH	MEASUREMENT_CONTROL
					1144.		15:54:54.035	10715	200	-11.6	4030.	UMTS FDD	Downlink	15:54:54.625	DCCH	RADIO_BEARER_SETUP
					1145.	-104	15:54:54.626	10715	202		4031.	UMTS FDD	Uplink	15:54:54.925	DCCH	MEASUREMENT_REPORT
					1146.		15:54:54.626	10715	202	-15.2	4032.	UMTS FDD	Uplink	15:54:55.101	DCCH	RADIO_BEARER_SETUP_COMPLETE
					1147.	-94.1	15:54:55.102	10715	111		4033.	UMTS FDD	Downlink	15:54:55.424	DCCH	MEASUREMENT_CONTROL
					1148.		15:54:55.102	10715	111	-7.1	4034.	UMTS FDD	Downlink	15:54:55.424	DCCH	MEASUREMENT_CONTROL
					1149.	-96.9	15:54:55.663	10715	111		4035.	UMTS FDD	Downlink	15:54:55.424	DCCH	MEASUREMENT_CONTROL
					1150.		15:54:55.663	10715	111	-8.5	4036.	UMTS FDD	Downlink	15:54:55.463	DCCH	MEASUREMENT_CONTROL
					1151.	-98.5	15:54:56.117	10715	111		4037.	UMTS FDD	Downlink	15:54:55.463	DCCH	ACTIVE_SET_UPDATE
					1152.		15:54:56.117	10715	111	-11	4038.	UMTS FDD	Uplink	15:54:55.464	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					1153.	-95.6	15:54:56.645	10715	200		4039.	UMTS FDD	Downlink	15:54:55.465	DCCH	DOWNLINK_DIRECT_TRANSFER

### Analysis:

- This call failure event occurred on short call at 15:54:55:906 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 111 and RF condition RSCP -109.6 dBm good but Ec/No -18.8 dB are very poor.
- As per the analysis call failed happened due to poor quality of the network.

**THANKS**