

Seychelles Test Drive

Saint Loius Phase-2 Report



Phase-1 Dates- 04th Oct 2024



Route Name: Mahe

District Name: Saint Loius

Region: Central

Island: Mahé

Drive Test Distance: 12.64 kms

Drive Test Duration: 00 hours,57 minutes,23 seconds

Phase-2 Dates- 18th to 21st Oct 2024



Route Name: Mahe

District Name: Saint Loius

Region: Central

Island: Mahé

Drive Test Distance: 13.84 kms

Drive Test Duration: 01 hours,11 minutes,27 seconds

Phase-1**Short Call Findings:**

- The Call Setup Success Rate for Airtel is (100.00%), while for Operator CWS it is (95.71%).
- The Call Setup Time for Airtel is (6.15s) , while for Operator CWS it is (7.59s)

Long Call Findings :

- The Call Retainability for Airtel is (94.74%), while for CWS it is (100.00%).
- The MOS quality observed for Airtel is (3.15), and for CWS, it is (3.41).

Phase-2**Short Call Findings:**

- The Call Setup Success Rate for Airtel is (100.00%), while for Operator CWS it is (98.84%).
- The Call Setup Time for Airtel is (5.95s), while for Operator CWS it is (7.55s)

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 (3.04), and for CWS, it is (3.33).

Phase-1

4G Preferred Data Findings:

- Airtel SFTP DL is (11.90 Mbps), while SFTP UL is (6.95 Mbps), CWS SFTP DL is (4.93 Mbps), while SFTP UL is (2.96 Mbps)
- Airtel HTTP DL is (16.47 Mbps), HTTP Capacity DL is (33.62 Mbps) ,HTTP UL is (9.53 Mbps) , and HTTP Capacity UL is (21.06 Mbps).
- CWS HTTP DL is (5.75 Mbps), HTTP Capacity DL is (15.85 Mbps) ,HTTP UL is (5.05 Mbps) , and HTTP Capacity UL is (11.50 Mbps).
- On live web page testing for browsing, www.shein.com took (7.99s), www.nbs.gov.sc took (18.59s), and www.sbc.sc took (17.70s) on Airtel.
- On live web page testing for browsing, www.shein.com took (8.10s), www.nbs.gov.sc took (15.27s), and www.sbc.sc took (23.17s) on CWS.
- On static browsing, Kepler Webpage took (4.33s), and Kepler Mobile took (2.15s) on Airtel.
- On static browsing, Kepler Webpage took (4.95s), and Kepler Mobile took (2.66s) on CWS.
- YouTube average resolution in Airtel is (1047.50) pixels.
- YouTube average resolution in CWS is (1042.80) pixels.
- Airtel scored 57.19% in Carrier Aggregation (CA).
- CWS scored 47.25% in Carrier Aggregation (CA).

Phase-2

4G Preferred Data Findings:

- Airtel SFTP DL is (13.08 Mbps), while SFTP UL is (5.78 Mbps), CWS SFTP DL is (4.81 Mbps), while SFTP UL is (2.54 Mbps)
- Airtel HTTP DL is (17.22 Mbps), HTTP Capacity DL is (21.78 Mbps) ,HTTP UL is (9.05 Mbps) , and HTTP Capacity UL is (15.34 Mbps).
- CWS HTTP DL is (4.58 Mbps), HTTP Capacity DL is (9.49 Mbps) ,HTTP UL is (4.83 Mbps) , and HTTP Capacity UL is (13.55 Mbps).
- On live web page testing for browsing, www.shein.com took (6.48s), www.nbs.gov.sc took (18.30s), and www.sbc.sc took (18.11s) on Airtel.
- On live web page testing for browsing, www.shein.com took (8.53s), www.nbs.gov.sc took (17.97s), and www.sbc.sc took (15.34s) on CWS.
- On static browsing, Kepler Webpage took (3.78s), and Kepler Mobile took (1.80s) on Airtel.
- On static browsing, Kepler Webpage took (5.83s), and Kepler Mobile took (2.82s) on CWS.
- YouTube average resolution in Airtel is (1080.00) pixels.
- YouTube average resolution in CWS is (992.57) pixels.
- Airtel scored 59.92% in Carrier Aggregation (CA).
- CWS scored 43.51% in Carrier Aggregation (CA).

Phase-1

3G Preferred Data Test Findings:

- Airtel SFTP DL is (4.12 Mbps), while SFTP UL is (1.61 Mbps), CWS SFTP DL is (4.04 Mbps), while SFTP UL is (1.21 Mbps)
- Airtel HTTP DL is (4.30 Mbps), HTTP Capacity DL is (5.04 Mbps) ,HTTP UL is (2.43 Mbps) , and HTTP Capacity UL is (4.10 Mbps).
- CWS HTTP DL is (3.60 Mbps), HTTP Capacity DL is (6.09 Mbps) ,HTTP UL is (1.47 Mbps) , and HTTP Capacity UL is (3.53Mbps).
- On live web page testing for browsing, www.shein.com took (16.74s), www.nbs.gov.sc took (14.18s), and www.sbc.sc took (21.51s) on Airtel.
- On live web page testing for browsing, www.shein.com took (16.10s), www.nbs.gov.sc took (13.73s), and www.sbc.sc took (16.11s) on CWS.
- On static browsing, Kepler Webpage took (5.17s), and Kepler Mobile took (1.87s) on Airtel.
- On static browsing, Kepler Webpage took (5.31s), and Kepler Mobile took (2.81s) on CWS.
- YouTube average resolution in Airtel is (909.06) pixels.
- YouTube average resolution in CWS is (949.57) pixels.

Phase-2

3G Preferred Data Test Findings:

- Airtel SFTP DL is (4.16 Mbps), while SFTP UL is (1.58 Mbps), CWS SFTP DL is (3.03 Mbps), while SFTP UL is (0.91 Mbps)
- Airtel HTTP DL is (4.48 Mbps), HTTP Capacity DL is (4.23 Mbps) ,HTTP UL is (2.01 Mbps) , and HTTP Capacity UL is (4.15 Mbps).
- CWS HTTP DL is (2.72 Mbps), HTTP Capacity DL is (7.22 Mbps) ,HTTP UL is (1.72 Mbps) , and HTTP Capacity UL is (4.05 Mbps).
- On live web page testing for browsing, www.shein.com took (10.88s), www.nbs.gov.sc took (11.44s), and www.sbc.sc took (14.02s) on Airtel.
- On live web page testing for browsing, www.shein.com took (8.64s), www.nbs.gov.sc took (8.46s), and www.sbc.sc took (14.70s) on CWS.
- On static browsing, Kepler Webpage took (4.04s), and Kepler Mobile took (2.30s) on Airtel.
- On static browsing, Kepler Webpage took (5.71s), and Kepler Mobile took (3.74s) on CWS.
- YouTube average resolution in Airtel is (996.95) pixels.
- YouTube average resolution in CWS is (1046.73) 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	72	70
Call Failed	0	3
Call Connected	72	67
CSSR[%]	100.00	95.71
USCSR[%]	0.00	4.29
CST [s] Alerting	6.15	7.59
CST [s]Connected	6.39	7.80

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)	6.15	7.59	1	2
CS calls CST (until ringing/alerting)	6.09	#N/A	1	#N/A
CSFB calls CST (until ringing/alerting)	6.15	7.59	1	2
Overall CST (until Connect/Connect Acknowledge)	6.39	7.80	1	2
CS calls CST (until Connect/Connect Acknowledge)	6.43	#N/A	1	#N/A
CSFB calls CST (until Connect/Connect Acknowledge)	6.39	7.80	1	2

Phase-2

Short Call Statistics		
Short Call Scenario	Operator 1	Operator 2
Voice KPIs	Airtel	CWS
Call Attempt	87	86
Call Failed	0	1
Call Connected	87	85
CSSR[%]	100.00	98.84
USCSR[%]	0.00	1.16
CST [s] Alerting	5.95	7.55
CST [s]Connected	6.23	7.79

Call Setup Time (s)	Operators		Rank	
	Airtel	CWS	Airtel	CWS
Overall CST (until ringing/alerting)	5.95	7.55	1	2
CS calls CST (until ringing/alerting)	6.03	#N/A	1	#N/A
CSFB calls CST (until ringing/alerting)	5.94	7.55	1	2
Overall CST (until Connect/Connect Acknowledge)	6.23	7.79	1	2
CS calls CST (until Connect/Connect Acknowledge)	6.40	#N/A	1	#N/A
CSFB calls CST (until Connect/Connect Acknowledge)	6.21	7.79	1	2

Phase-1

Long Call Statistics				
Long Call Scenario	Operator 1		Operator 2	
Voice KPIs	Airtel		CWS	
Call Connected	19		20	
Call Dropped	1		0	
Call Completed	18		20	
CRR[%]	94.74		100.00	
DCR[%]	5.26		0.00	
MOS	3.15		3.41	
	Airtel short call	CWS short call	Airtel long call	CWS long call
CSFB Calls	67	70	18	20
CS Calls	5	0	1	0
Handover Statistics		Airtel MO	CWS MO	
Handover Attempt		23	67	
Handover Failure		1	0	
Handover Success		22	67	
HOSR %		95.65	100.00	

Phase-2

Long Call Statistics				
Long Call Scenario	Operator 1		Operator 2	
Voice KPIs	Airtel		CWS	
Call Connected	24		23	
Call Dropped	0		0	
Call Completed	24		23	
CRR[%]	100.00		100.00	
DCR[%]	0.00		0.00	
MOS	3.04		3.33	
	Airtel short call	CWS short call	Airtel long call	CWS long call
CSFB Calls	79	86	23	21
CS Calls	8	0	1	2
Handover Statistics		Airtel MO	CWS MO	
Handover Attempt		13	56	
Handover Failure		0	0	
Handover Success		13	56	
HOSR %		100.00	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)	11.90	4.93	1	2	13.08	4.81	1	2
	SFTP UL(Mbps)	6.95	2.96	1	2	5.78	2.54	1	2
	HTTP DL(Mbps)	16.47	5.75	1	2	17.22	4.58	1	2
	HTTP UL(Mbps)	9.53	5.05	1	2	9.05	4.83	1	2
	HTTP Capacity DL(Mbps)	33.62	15.85	1	2	21.78	9.49	1	2
	HTTP Capacity UL(Mbps)	21.06	11.50	1	2	15.34	13.55	1	2
BROWSER	Overall Browser DL Time (s)	10.11	10.54	1	2	10.19	10.22	1	2
	Kepler Webpage DL Time (s)	4.33	4.95	1	2	3.78	5.83	1	2
	Mobile Kepler Webpage DL Time (s)	2.15	2.66	1	2	1.80	2.82	1	2
	www.shein.com Webpage DL Time (s)	7.99	8.10	1	2	6.48	8.53	1	2
	www.nbs.gov.sc Webpage DL Time (s)	18.59	15.27	2	1	18.30	17.97	2	1
	www.sbc.sc Webpage DL Time (s)	17.70	23.17	1	2	18.11	15.34	2	1
LATENCY	Avg Latency (ms)	268.01	198.47	2	1	264.36	245.77	2	1
	Median Latency (ms)	133	203	1	2	218	201	2	1
YOUTUBE	YouTube Access Time (s)	9.39	1.77	2	1	5.29	2.57	2	1
	YouTube Average Resolution (pixels)	1047.5	1042.8	1	2	1080.00	992.57	1	2
	YouTube Success Ratio [%]	91.67	100.00	2	1	100.00	100.00	1	1

Phase-1

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
SFTP DL	Success	12	12	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	12	12	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP DL	Success	11	12	91.67	100.00
	Failure	1	0	8.33	0.00
HTTP UL	Success	11	12	84.62	100.00
	Failure	2	0	15.38	0.00
HTTP Capacity DL	Success	9	9	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	9	8	100.00	88.89
	Failure	0	1	0.00	11.11

Phase-2

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
SFTP DL	Success	14	12	100.00	92.31
	Failure	0	1	0.00	7.69
SFTP UL	Success	15	13	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP DL	Success	14	13	93.33	100.00
	Failure	1	0	6.67	0.00
HTTP UL	Success	14	12	93.33	100.00
	Failure	1	0	6.67	0.00
HTTP Capacity DL	Success	12	10	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	11	9	100.00	90.00
	Failure	0	1	0.00	10.00

Phase-1

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Kepler	Success	8	9	80.00	100.00
	Failure	2	0	20.00	0.00
Mobile Kepler	Success	9	9	100.00	100.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	9	9	90.00	100.00
	Failure	1	0	10.00	0.00
www.nbs.gov.sc	Success	9	9	100.00	100.00
	Failure	0	0	0.00	0.00
www.sbc.sc	Success	8	8	88.89	88.89
	Failure	1	1	11.11	11.11

Phase-2

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Kepler	Success	8	11	61.54	100.00
	Failure	5	0	38.46	0.00
Mobile Kepler	Success	12	8	100.00	80.00
	Failure	0	2	0.00	20.00
www.shein.com	Success	13	11	100.00	100.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	13	11	100.00	100.00
	Failure	0	0	0.00	0.00
www.sbc.sc	Success	12	8	92.31	80.00
	Failure	1	2	7.69	20.00

Phase-1

	Latency KPIs	Airtel 4G	CWS 4G
Overall Latency	Sample Count [32 bytes]	20	21
	Average Latency [ms]	294.40	202.24
	Median Latency [ms]	130	202
	Ping session status: Successful	20	21
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
www.google.com	Average Latency [ms]	508.00	170.67
	Median Latency [ms]	419	161
	Ping session status: Successful	9	9
	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]	119.64	225.92
	Median Latency [ms]	120	223
	Ping session status: Successful	11	12
	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]	25	22
	Average Latency [ms]	269.64	225.73
	Median Latency [ms]	341	195
	Ping session status: Successful	25	22
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	0
	Packet Loss<1%	0.00	0.00
www.google.com	Average Latency [ms]	410.50	186.70
	Median Latency [ms]	404	167
	Ping session status: Successful	12	10
	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]	139.62	258.25
	Median Latency [ms]	118	255
	Ping session status: Successful	13	12
	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-1

LTE YOUTUBE Success Ratio		
KPIs	Airtel 4G	CWS 4G
Attempt(Count)	12	11
Success(Count)	11	11
Failure(Count)	1	0
YouTube Access Time (s)	9.39	1.77
YouTube Average Resolution (pixels)	1047.50	1042.80
YouTube Success Ratio [%]	91.67	100.00

Phase-2

LTE YOUTUBE Success Ratio		
KPIs	Airtel 4G	CWS 4G
Attempt(Count)	14	12
Success(Count)	14	12
Failure(Count)	0	0
YouTube Access Time (s)	5.29	2.57
YouTube Average Resolution (pixels)	1080.00	992.57
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)	4.12	4.04	1	2	4.16	3.03	1	2
	SFTP UL(Mbps)	1.61	1.21	1	2	1.58	0.91	1	2
	HTTP DL(Mbps)	4.30	3.60	1	2	4.48	2.72	1	2
	HTTP UL(Mbps)	2.43	1.47	1	2	2.01	1.72	1	2
	HTTP Capacity DL(Mbps)	5.04	6.09	2	1	4.23	7.22	2	1
	HTTP Capacity UL(Mbps)	4.10	3.53	1	2	4.15	4.05	1	2
BROWSER	Overall Browser DL Time (s)	12.11	11.29	2	1	8.37	8.25	2	1
	Kepler Webpage DL Time (s)	5.17	5.31	1	2	4.04	5.71	1	2
	Mobile Kepler Webpage DL Time (s)	1.87	2.81	1	2	2.30	3.74	1	2
	www.shein.com Webpage DL Time (s)	16.74	16.10	2	1	10.88	8.64	2	1
	www.nbs.gov.sc Webpage DL Time (s)	14.18	13.73	2	1	11.44	8.46	2	1
	www.sbc.sc Webpage DL Time (s)	21.51	16.11	2	1	14.02	14.70	1	2
LATENCY	Avg Latency (ms)	266.79	214.61	2	1	287.40	185.95	2	1
	Median Latency (ms)	210	201	2	1	393.5	196	2	1
YOUTUBE	YouTube Access Time (s)	4.40	2.02	2	1	4.38	2.18	2	1
	YouTube Average Resolution (pixels)	909.06	949.57	2	1	996.95	1046.73	2	1
	YouTube Success Ratio [%]	80.00	70.00	1	2	100.00	91.67	1	2

Phase-1

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	8	8	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	8	9	100.00	90.00
	Failure	0	1	0.00	10.00
HTTP DL	Success	8	9	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	8	8	80.00	80.00
	Failure	2	2	20.00	20.00
HTTP Capacity DL	Success	5	7	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	5	7	83.33	100.00
	Failure	1	0	16.67	0.00

Phase-2

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	14	12	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	12	12	92.31	100.00
	Failure	1	0	7.69	0.00
HTTP DL	Success	12	11	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	12	10	100.00	83.33
	Failure	0	2	0.00	16.67
HTTP Capacity DL	Success	10	9	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	10	8	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	6	4	100.00	50.00
	Failure	0	4	0.00	50.00
Mobile Kepler	Success	6	6	100.00	85.71
	Failure	0	1	0.00	14.29
www.shein.com	Success	7	7	100.00	87.50
	Failure	0	1	0.00	12.50
www.nbs.gov.sc	Success	7	7	100.00	87.50
	Failure	0	1	0.00	12.50
www.sbc.sc	Success	6	5	85.71	71.43
	Failure	1	2	14.29	28.57

Phase-2

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Kepler	Success	11	7	91.67	87.50
	Failure	1	1	8.33	12.50
Mobile Kepler	Success	10	7	100.00	87.50
	Failure	0	1	0.00	12.50
www.shein.com	Success	12	7	100.00	87.50
	Failure	0	1	0.00	12.50
www.nbs.gov.sc	Success	9	7	100.00	87.50
	Failure	0	1	0.00	12.50
www.sbc.sc	Success	9	7	90.00	87.50
	Failure	1	1	10.00	12.50

Phase-1

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	10	17
	Average Latency [ms]	306.60	209.82
	Median Latency [ms]	355	211
	Ping session status: Successful	10	17
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	3	0
	Packet Loss<1%	23.08	0.00
www.google.com	Average Latency [ms]	418.60	166.86
	Median Latency [ms]	416	151
	Ping session status: Successful	5	7
	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]	194.60	239.90
	Median Latency [ms]	176	220
	Ping session status: Successful	5	10
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	3	0
	Packet Loss<1%	37.50	0.00

Phase-2

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	17	20
	Average Latency [ms]	306.41	185.30
	Median Latency [ms]	405	196
	Ping session status: Successful	17	20
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	5	1
	Packet Loss<1%	22.73	4.76
www.google.com	Average Latency [ms]	417.70	162.44
	Median Latency [ms]	418	154
	Ping session status: Successful	10	9
	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]	147.43	204.00
	Median Latency [ms]	136	200
	Ping session status: Successful	7	11
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	5	1
	Packet Loss<1%	41.67	8.33

Phase-1

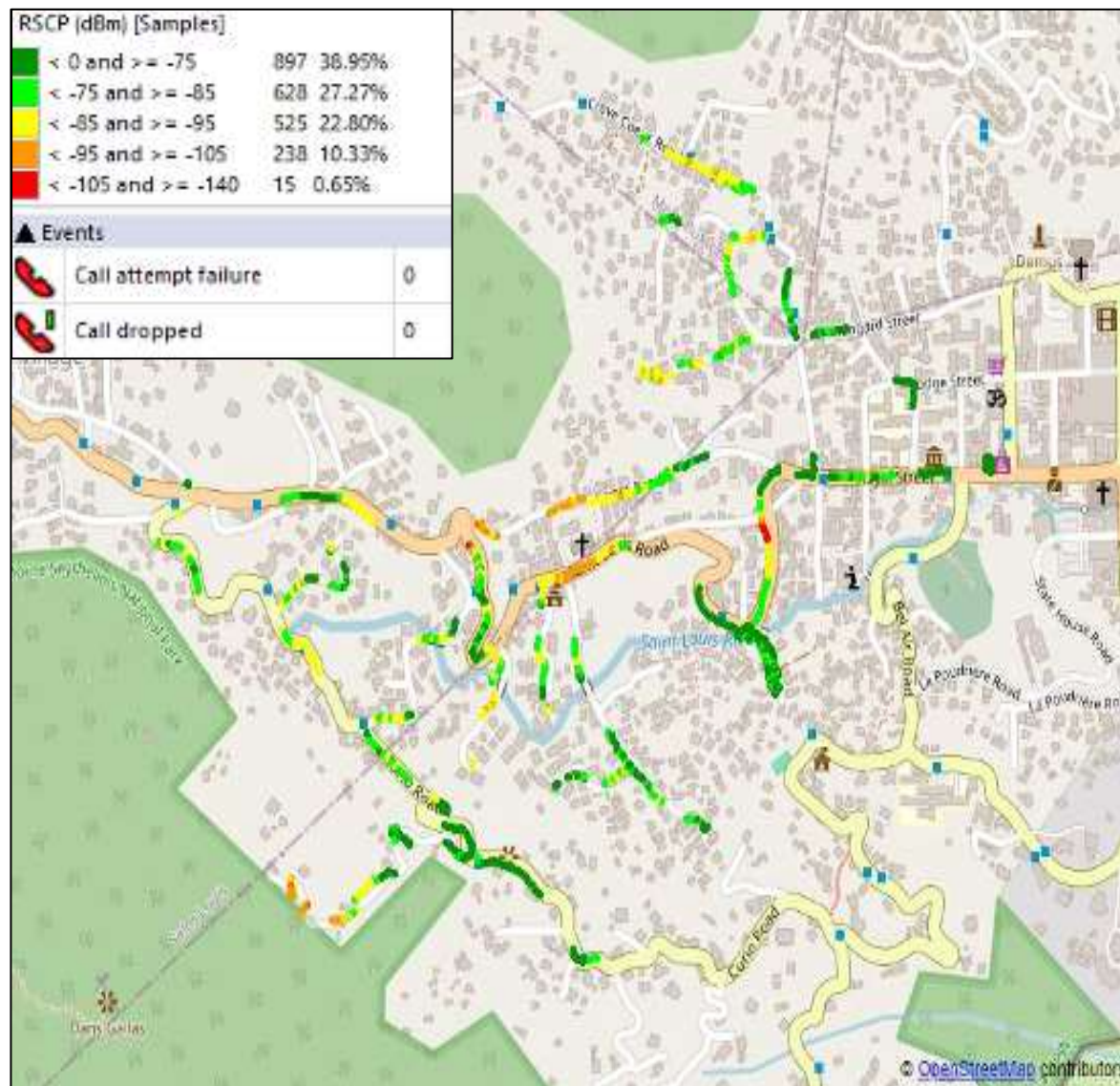
UMTS YOUTUBE Success Ratio		
KPIs	Airtel 3G	CWS 3G
Attempt(Count)	10	10
Success(Count)	8	7
Failure(Count)	2	3
YouTube Access Time (s)	4.40	2.02
YouTube Average Resolution (pixels)	909.06	949.57
YouTube Success Ratio [%]	80.00	70.00

Phase-2

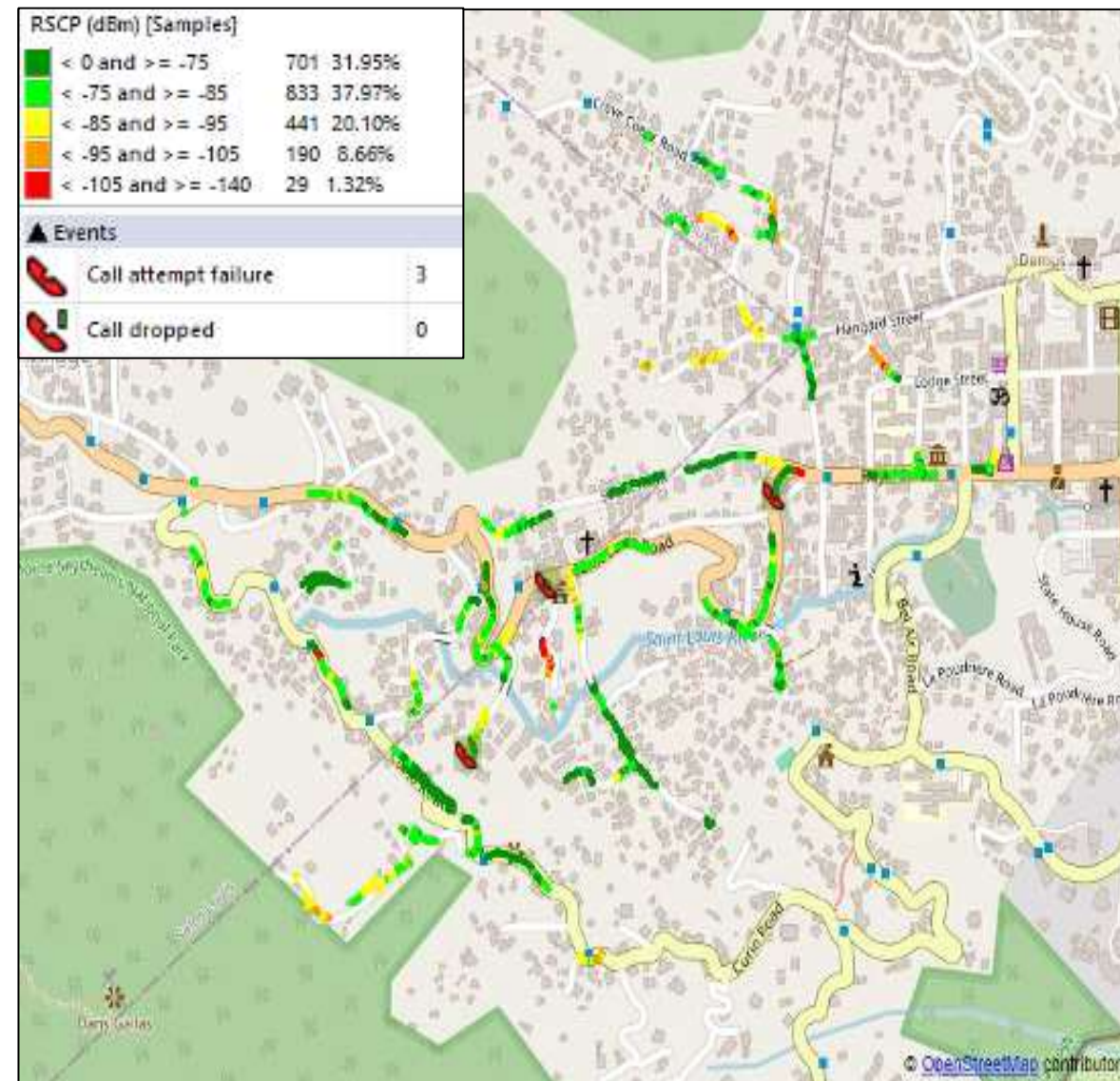
UMTS YOUTUBE Success Ratio		
KPIs	Airtel 3G	CWS 3G
Attempt(Count)	12	12
Success(Count)	12	11
Failure(Count)	0	1
YouTube Access Time (s)	4.38	2.18
YouTube Average Resolution (pixels)	996.95	1046.73
YouTube Success Ratio [%]	100.00	91.67

Voice Call Events

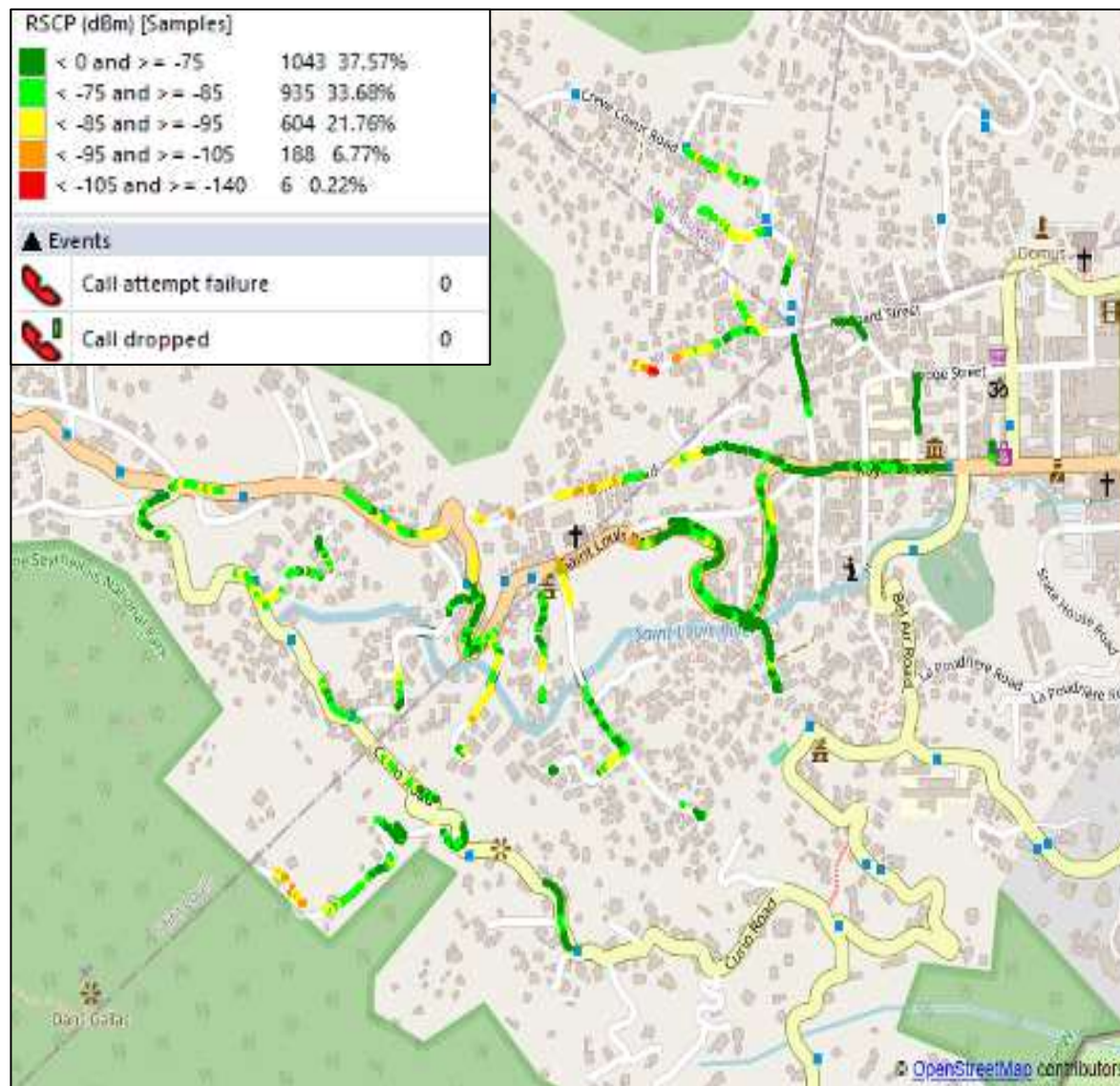
Airtel SC MO



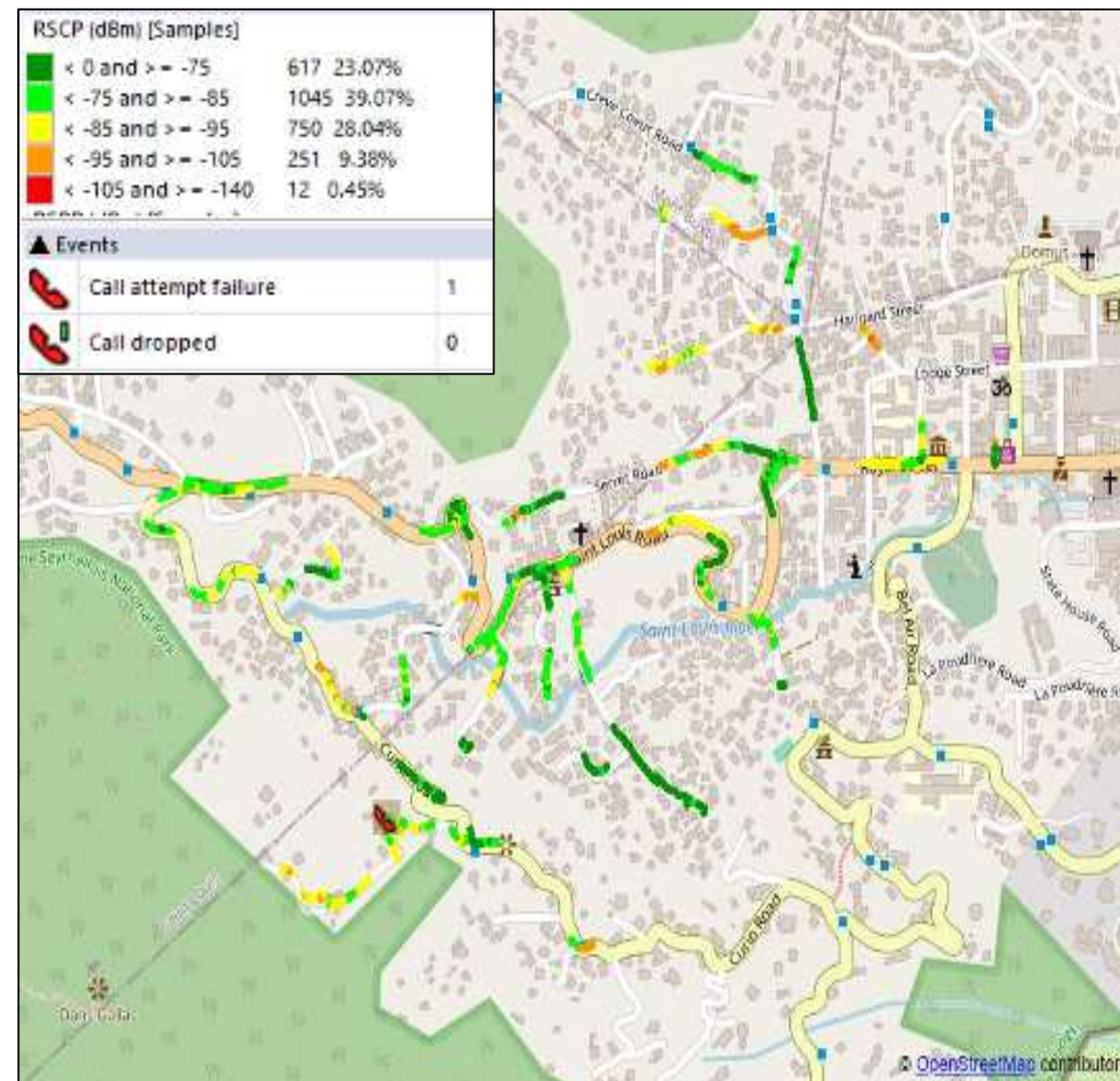
CWS SC MO



Airtel SC MO

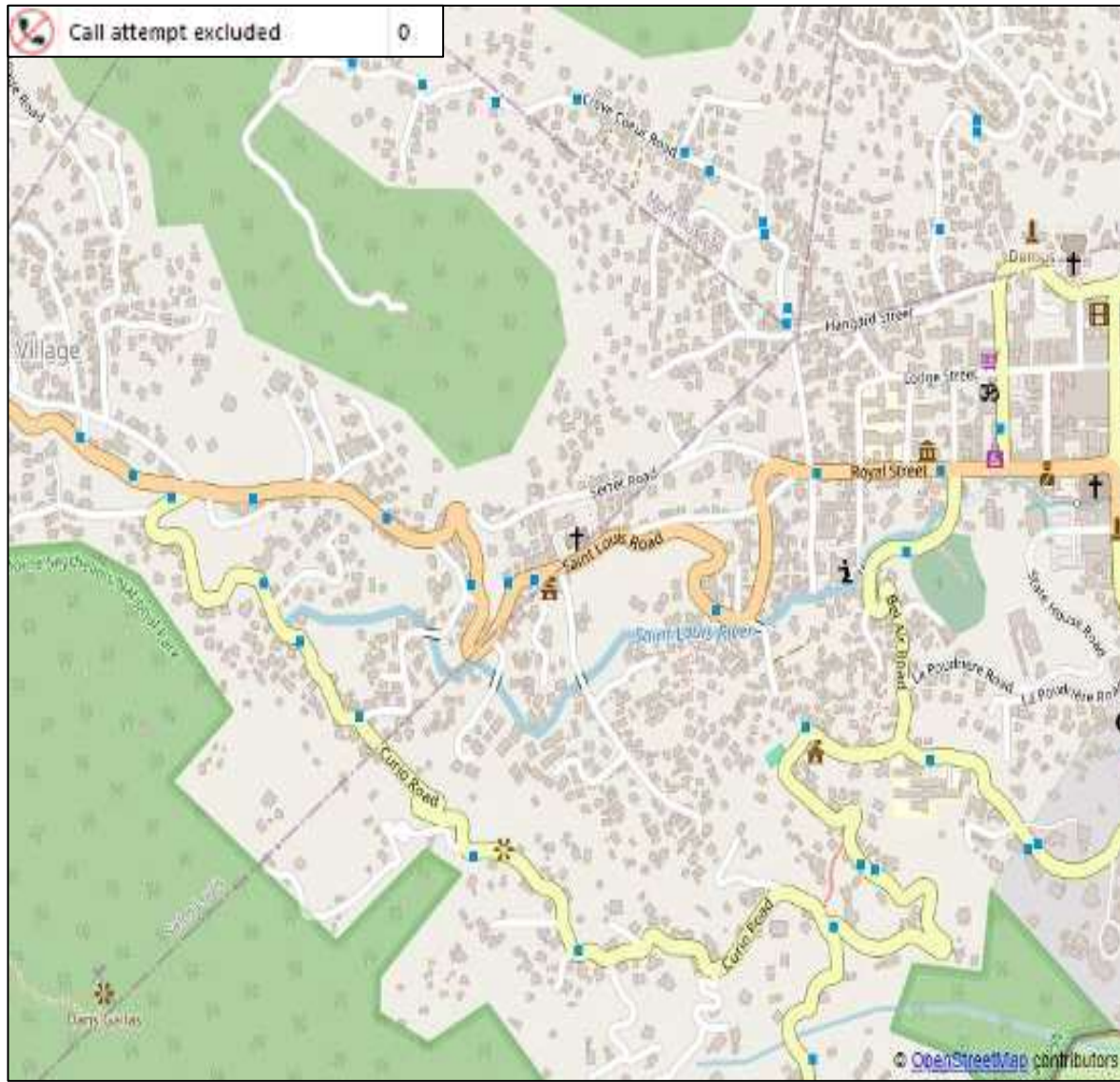


CWS SC MO

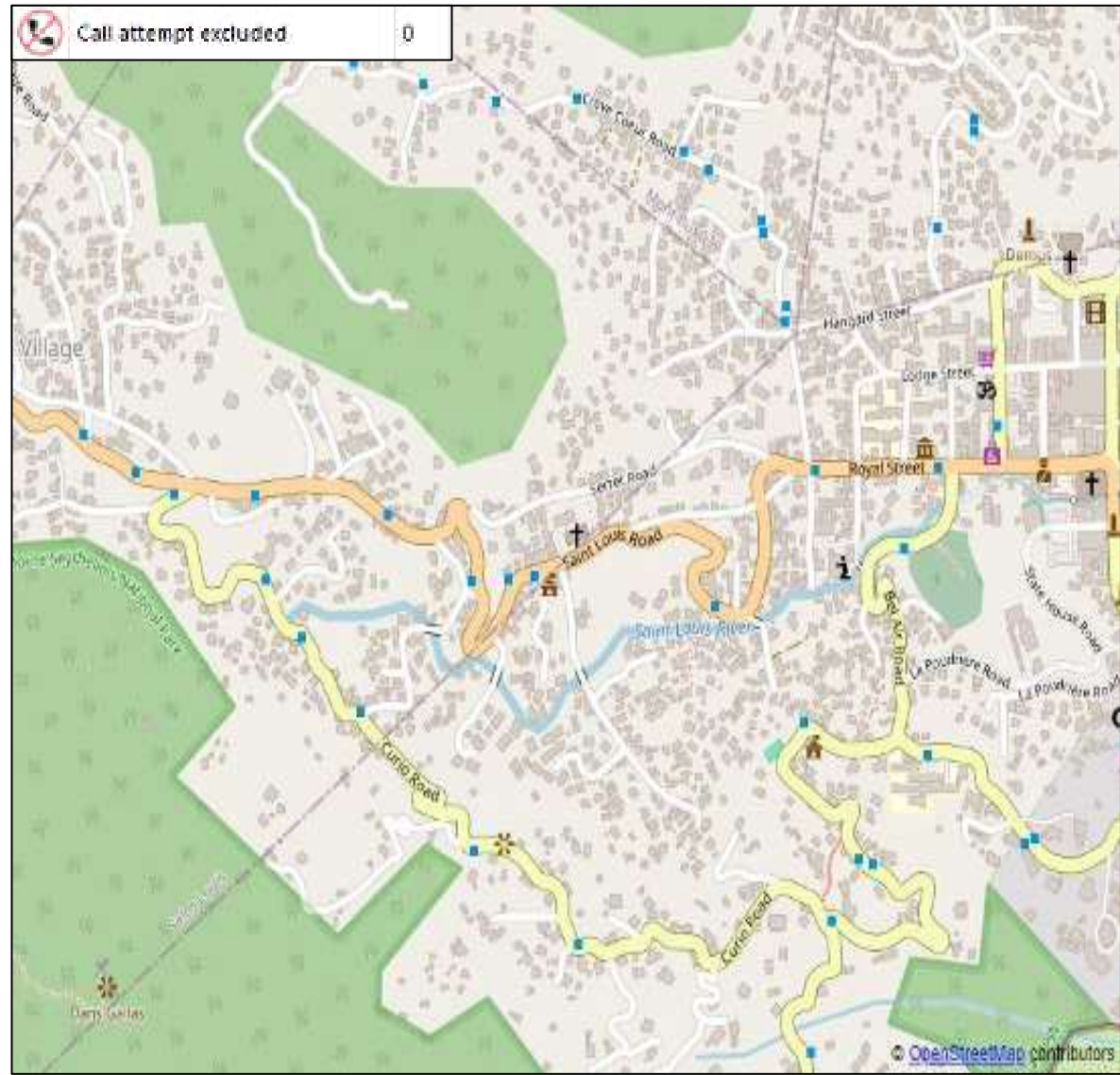


Phase-1 SHORT CALL EXCLUDED EVENTS

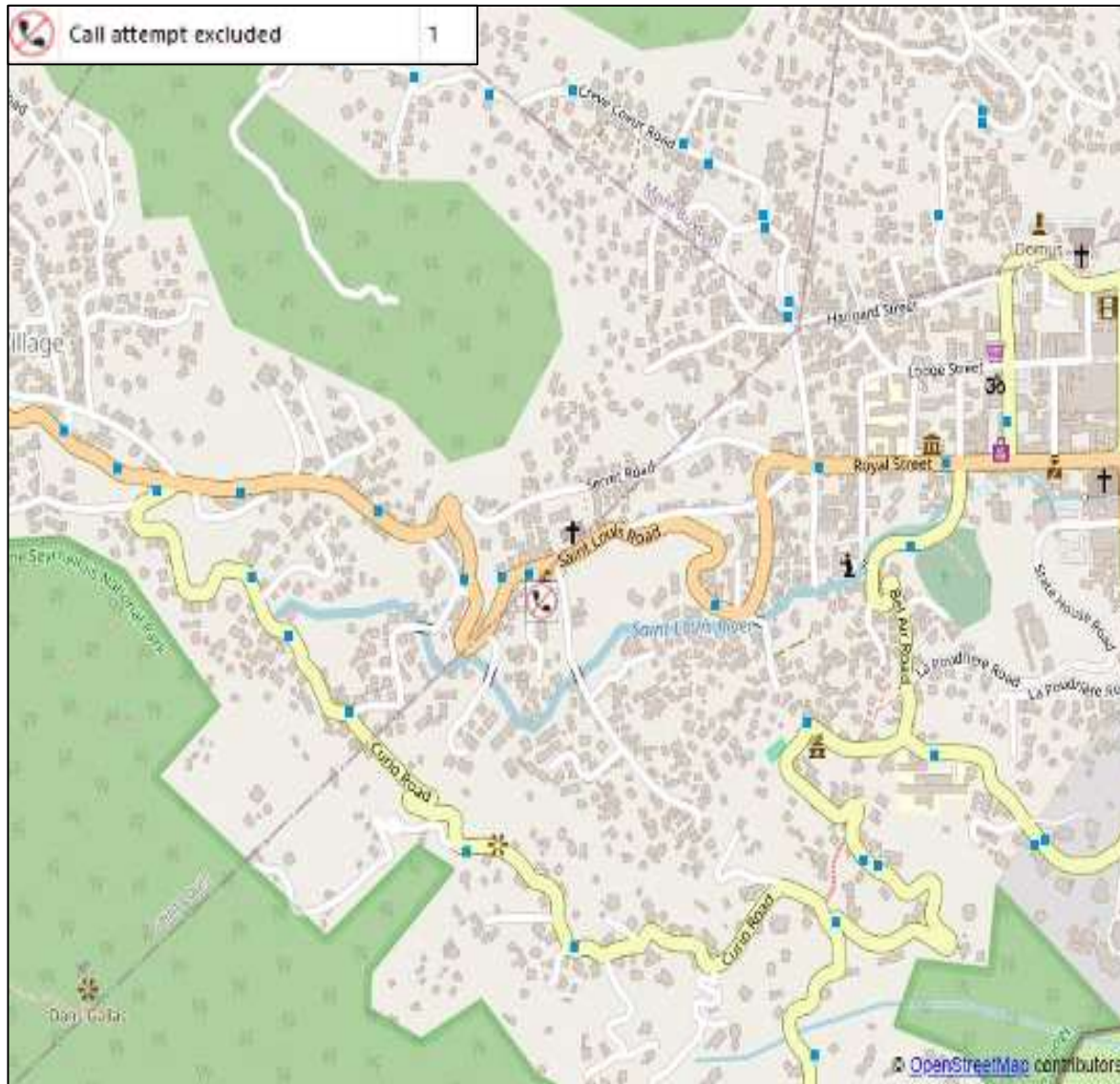
Airtel SC MO



CWS SC MO



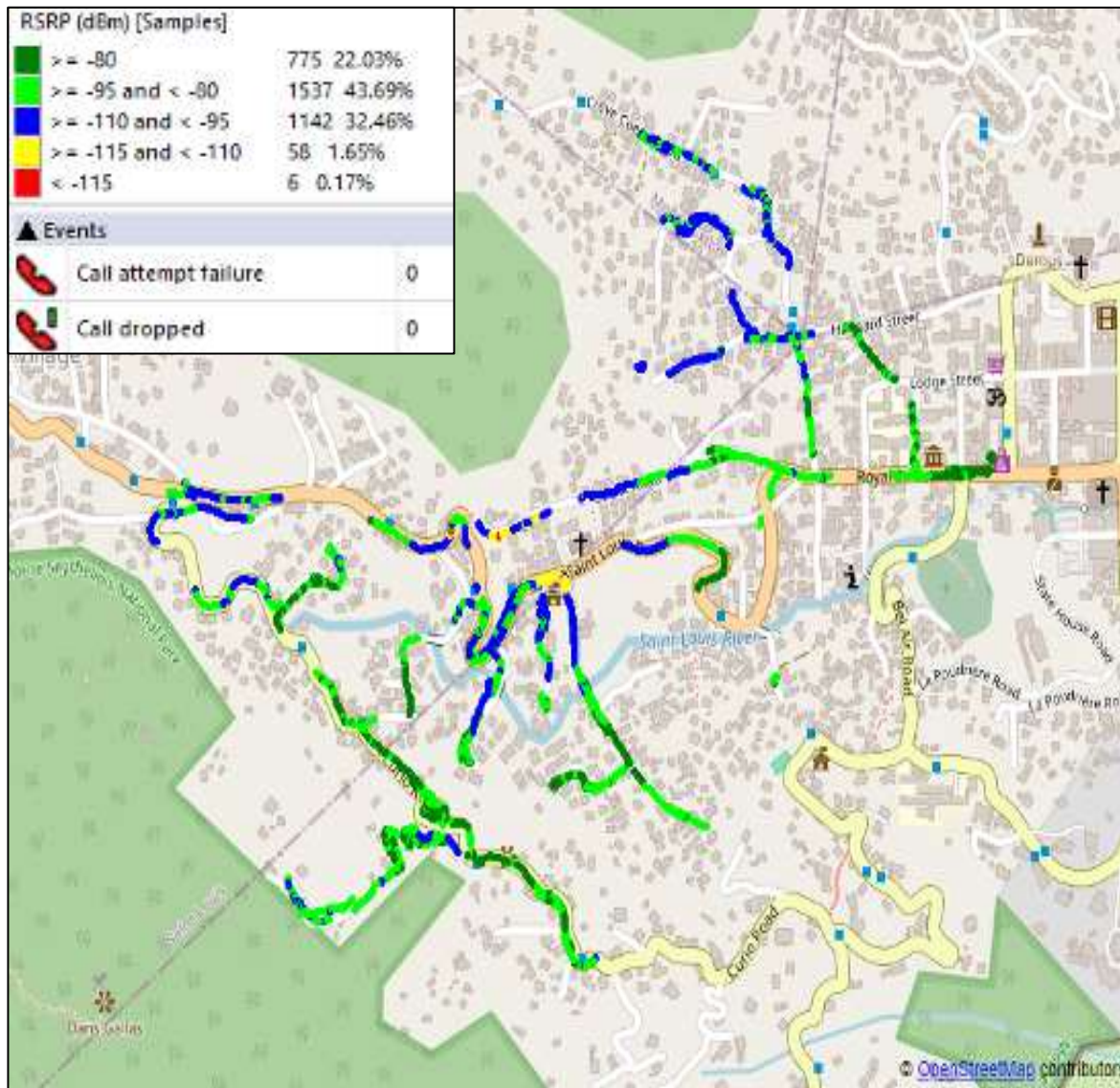
Airtel SC MO



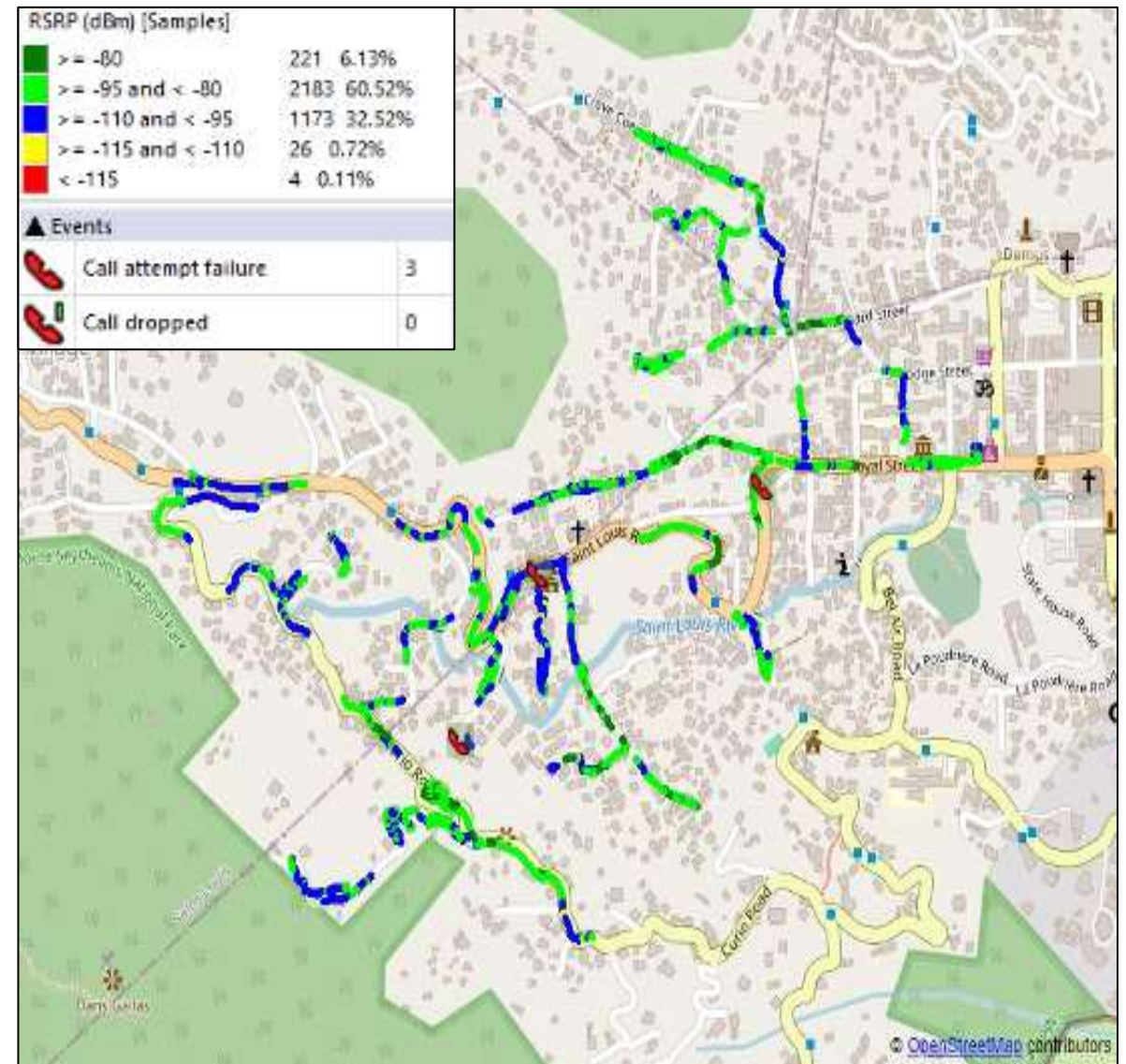
CWS SC MO



Airtel SC MO

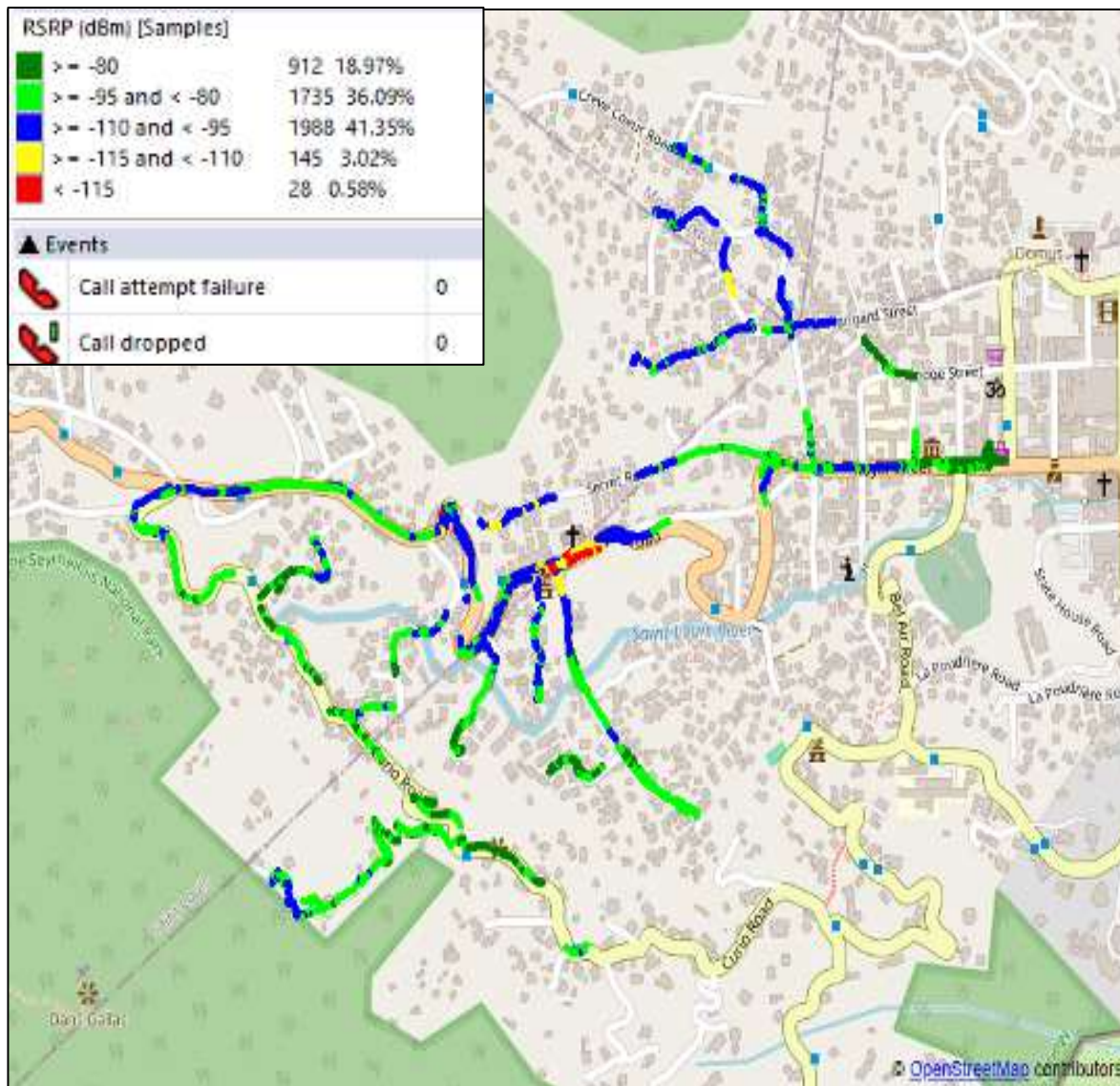


CWS SC MO

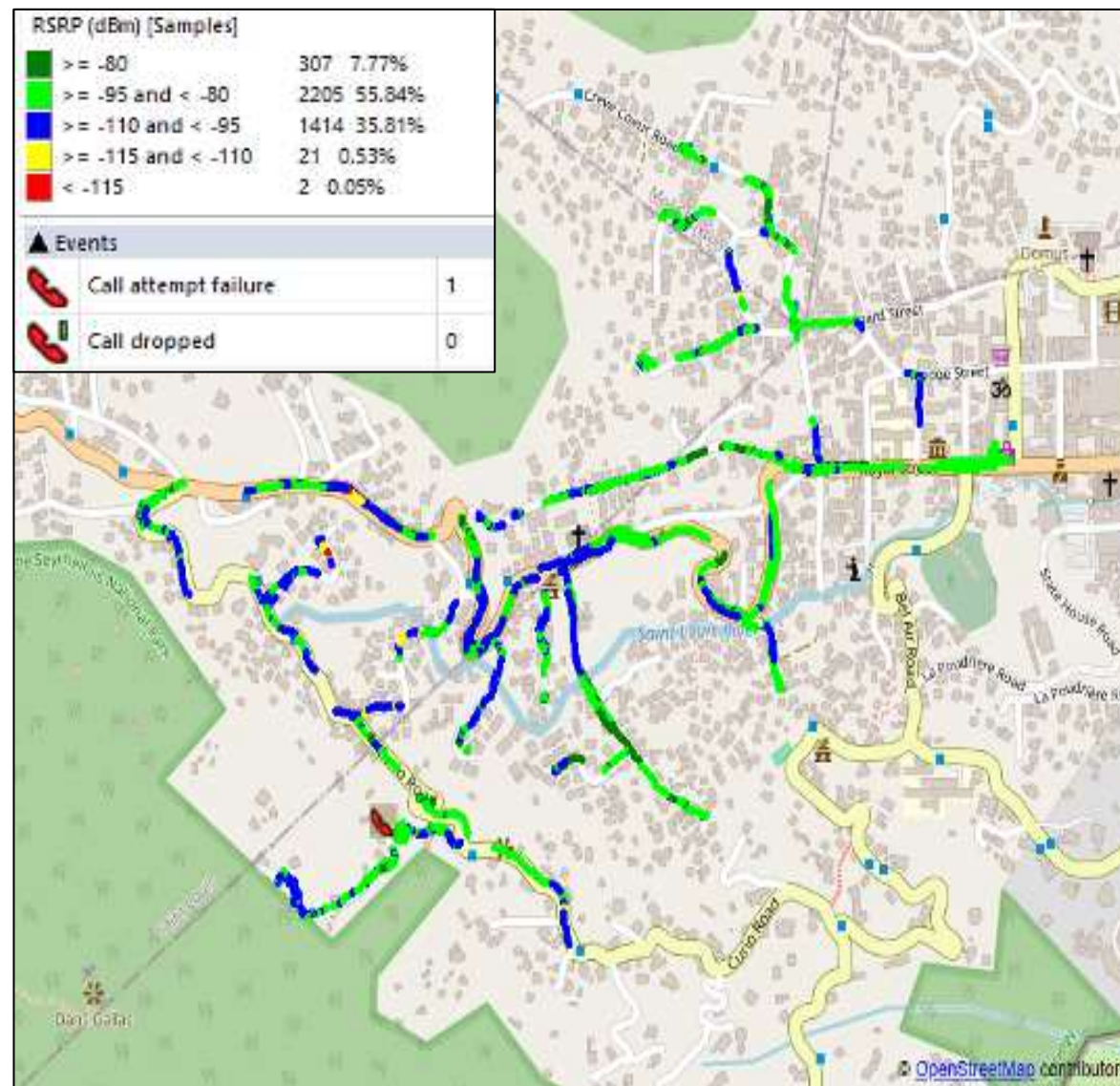


Phase-2 SHORT CALL FAILURE EVENTS LOCATION vs RSRP

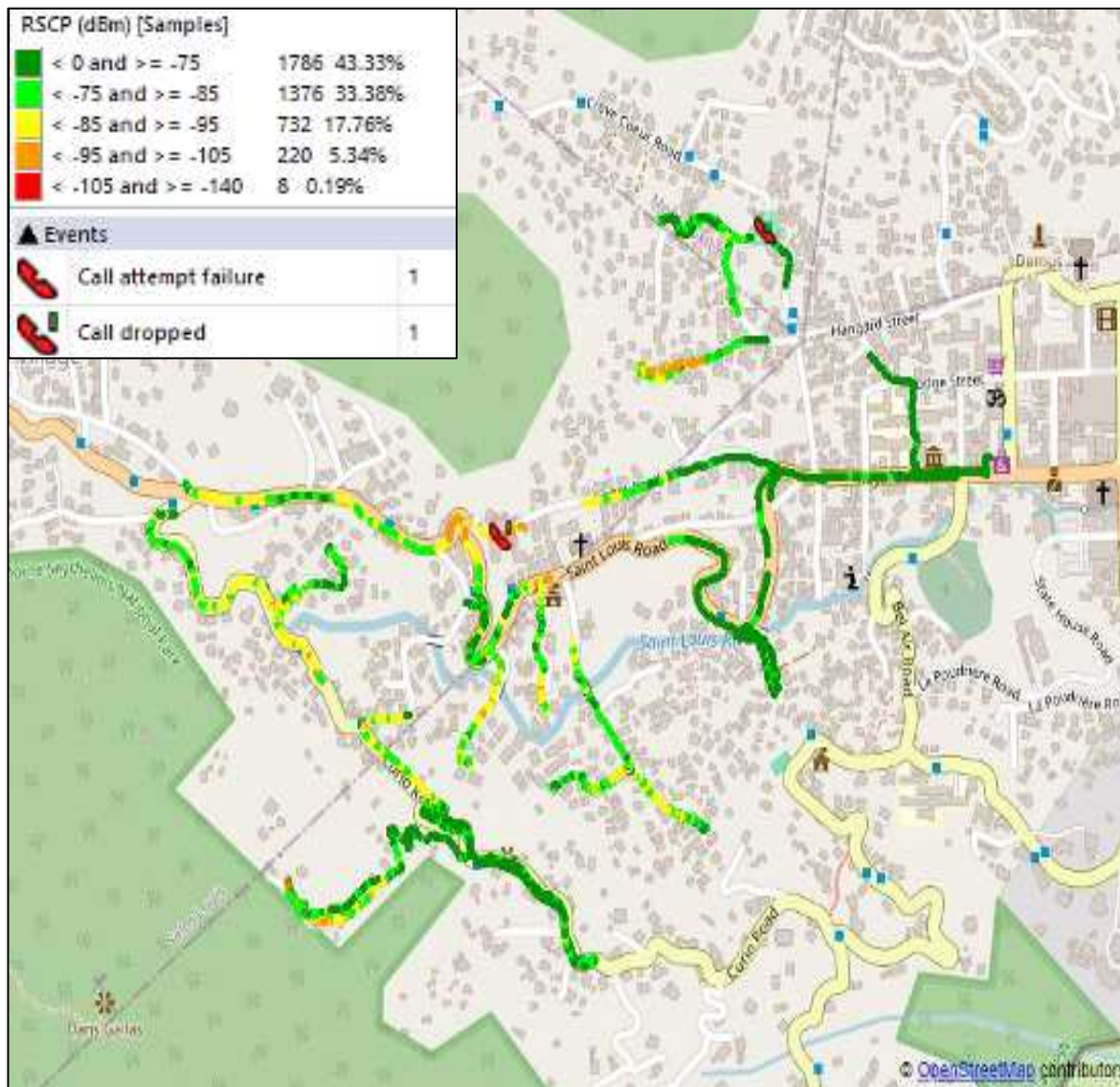
Airtel SC MO



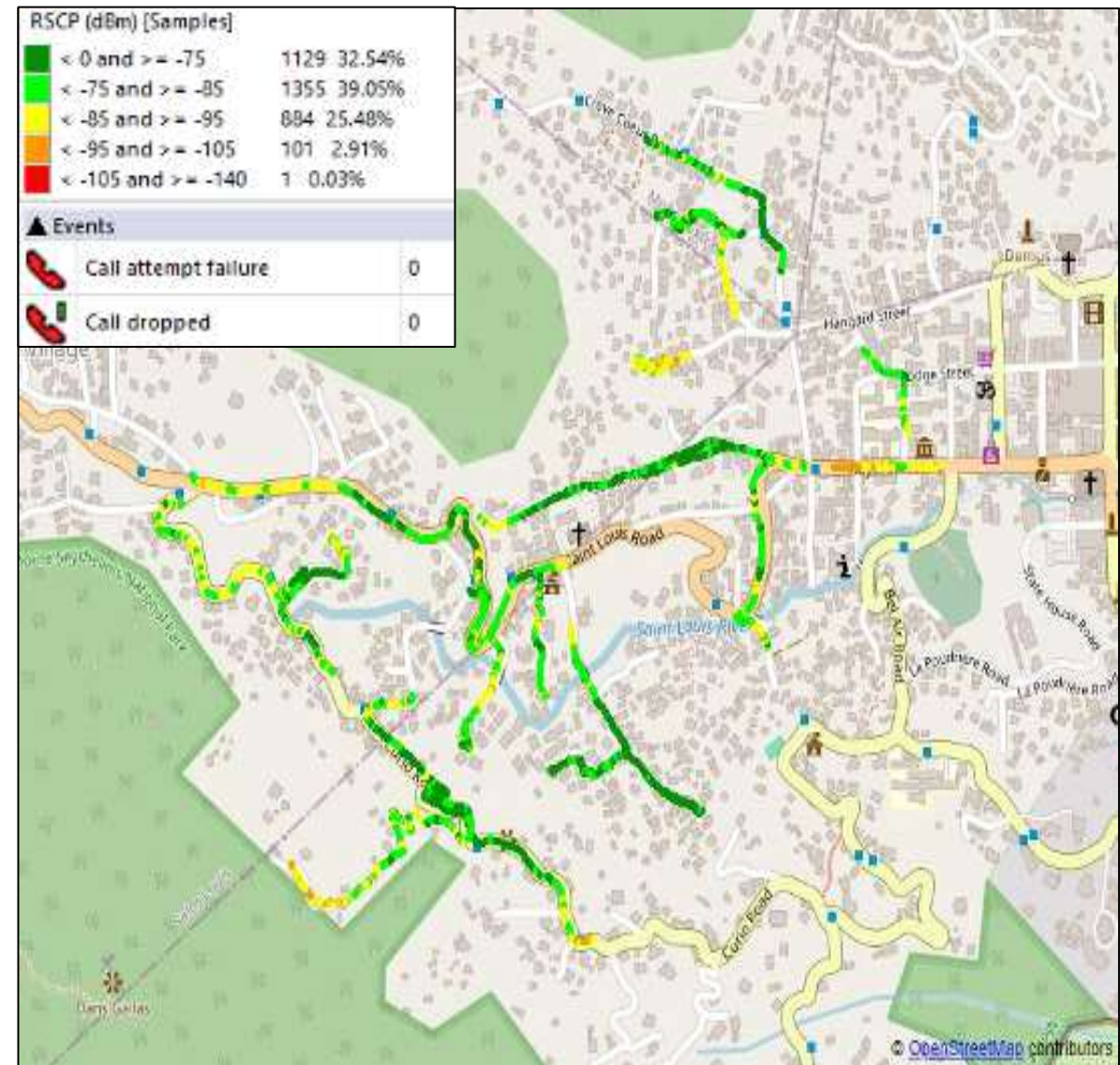
CWS SC MO



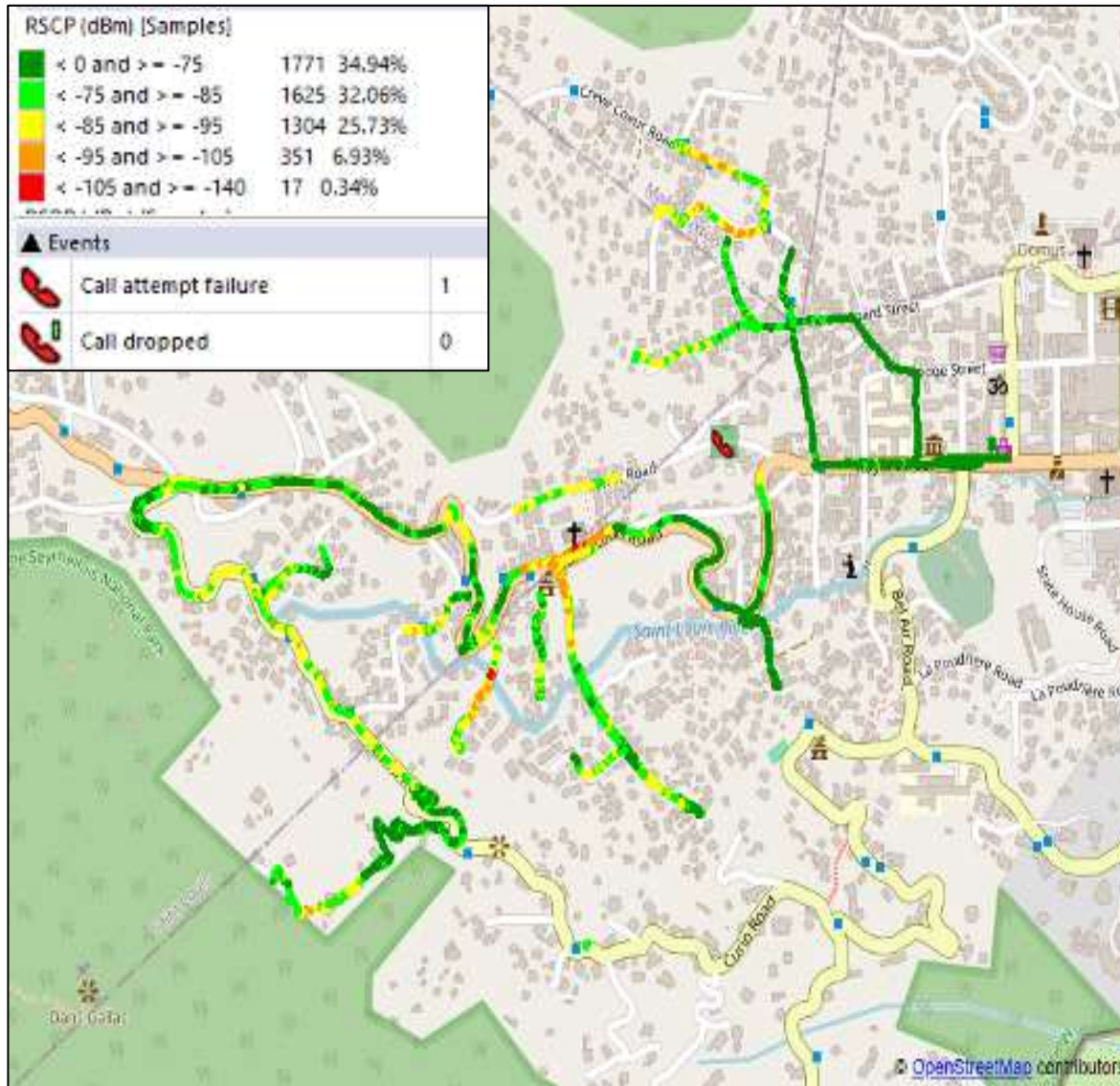
Airtel LC MO



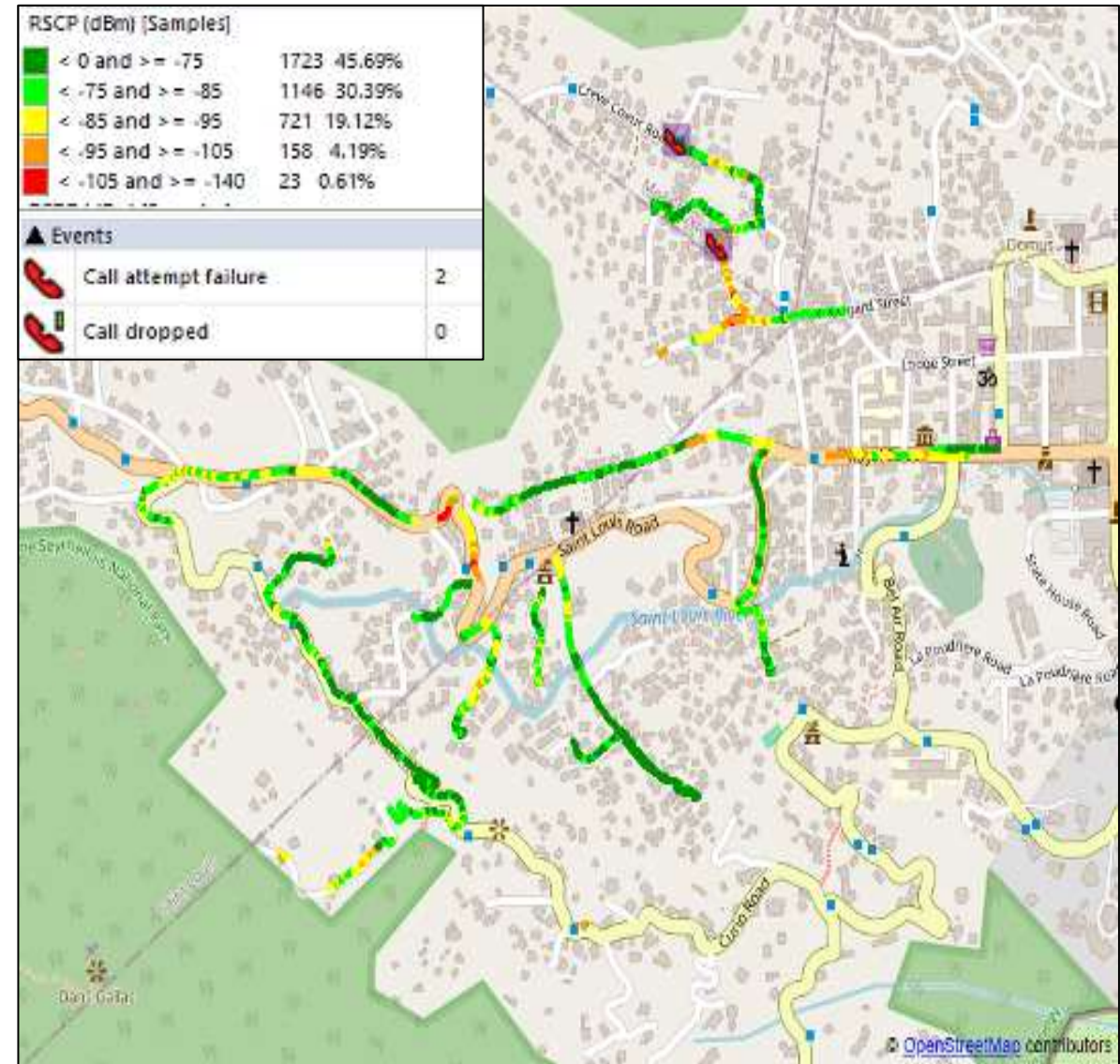
CWS LC MO



Airtel LC MO

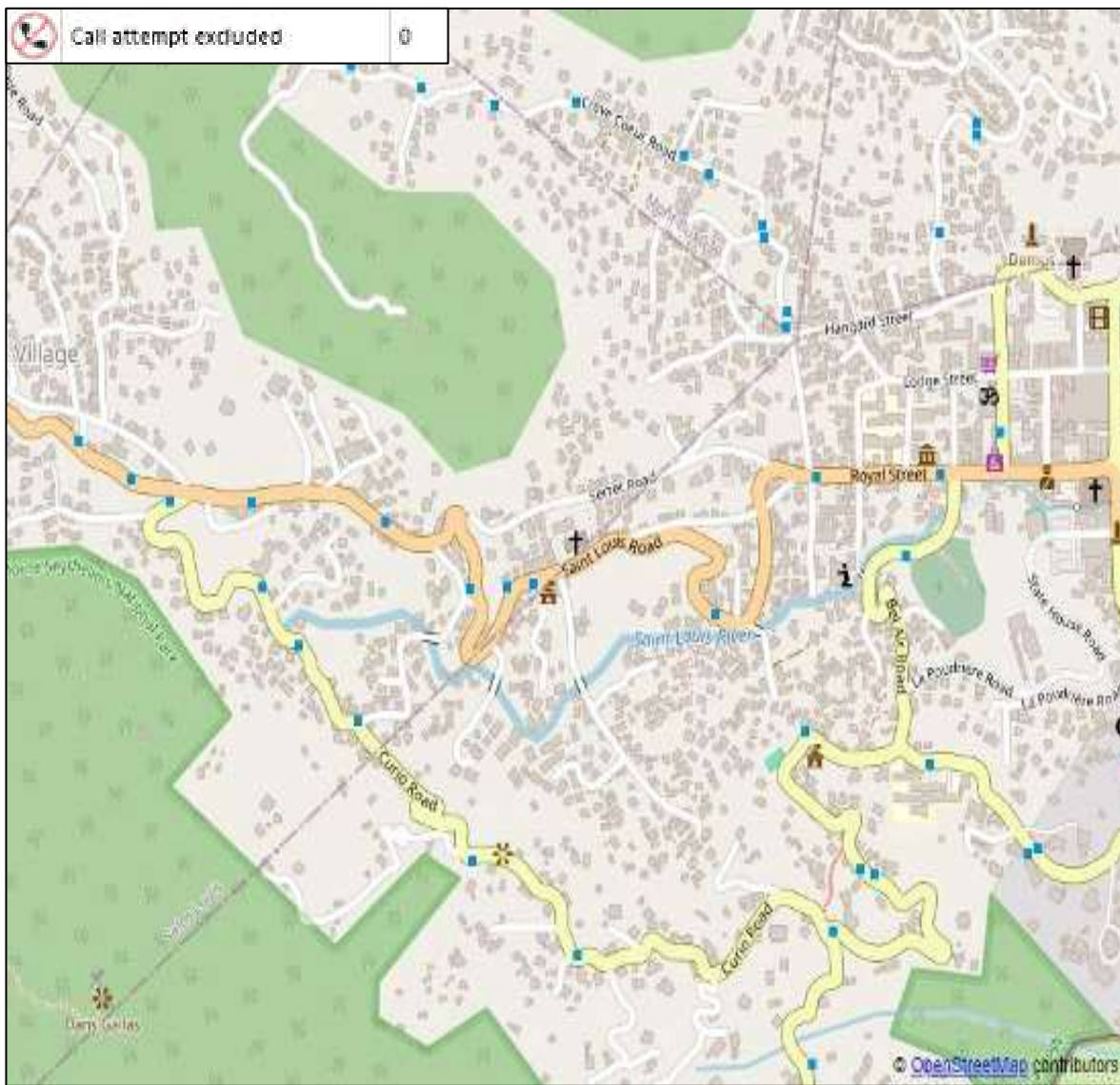


CWS LC MO

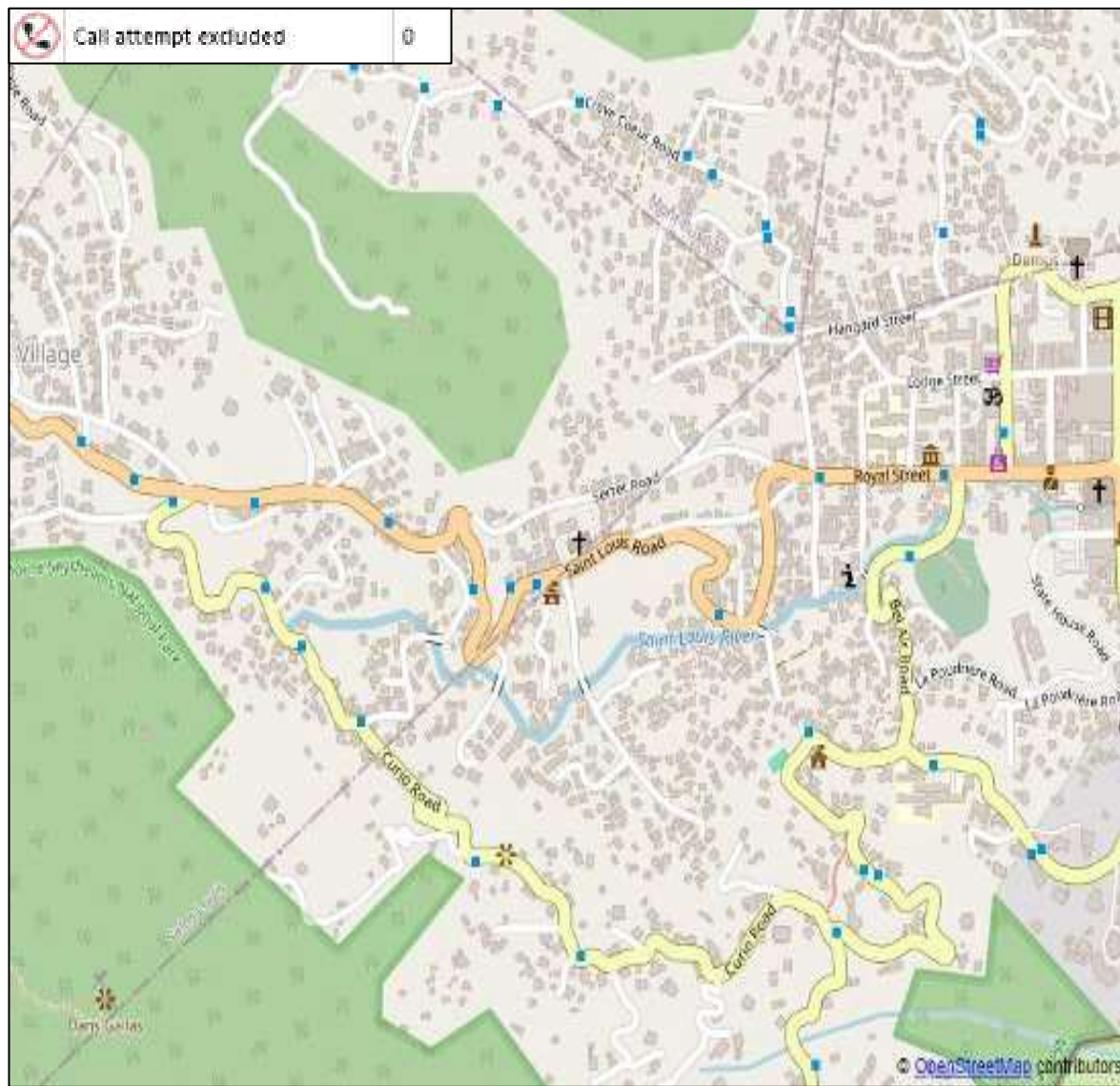


Phase-1 LONG CALL EXCLUDED EVENTS

Airtel LC MO

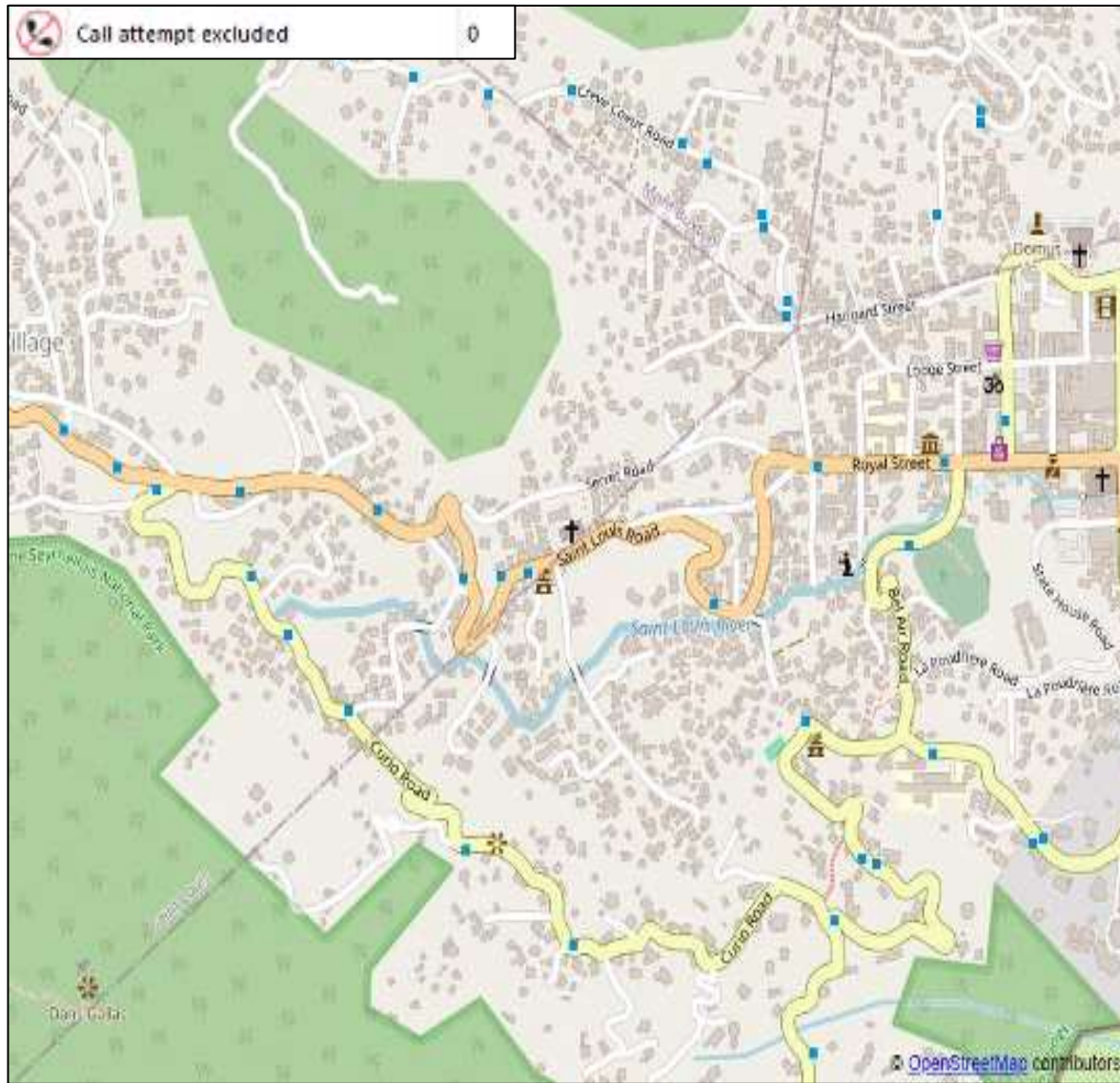


CWS LC MO

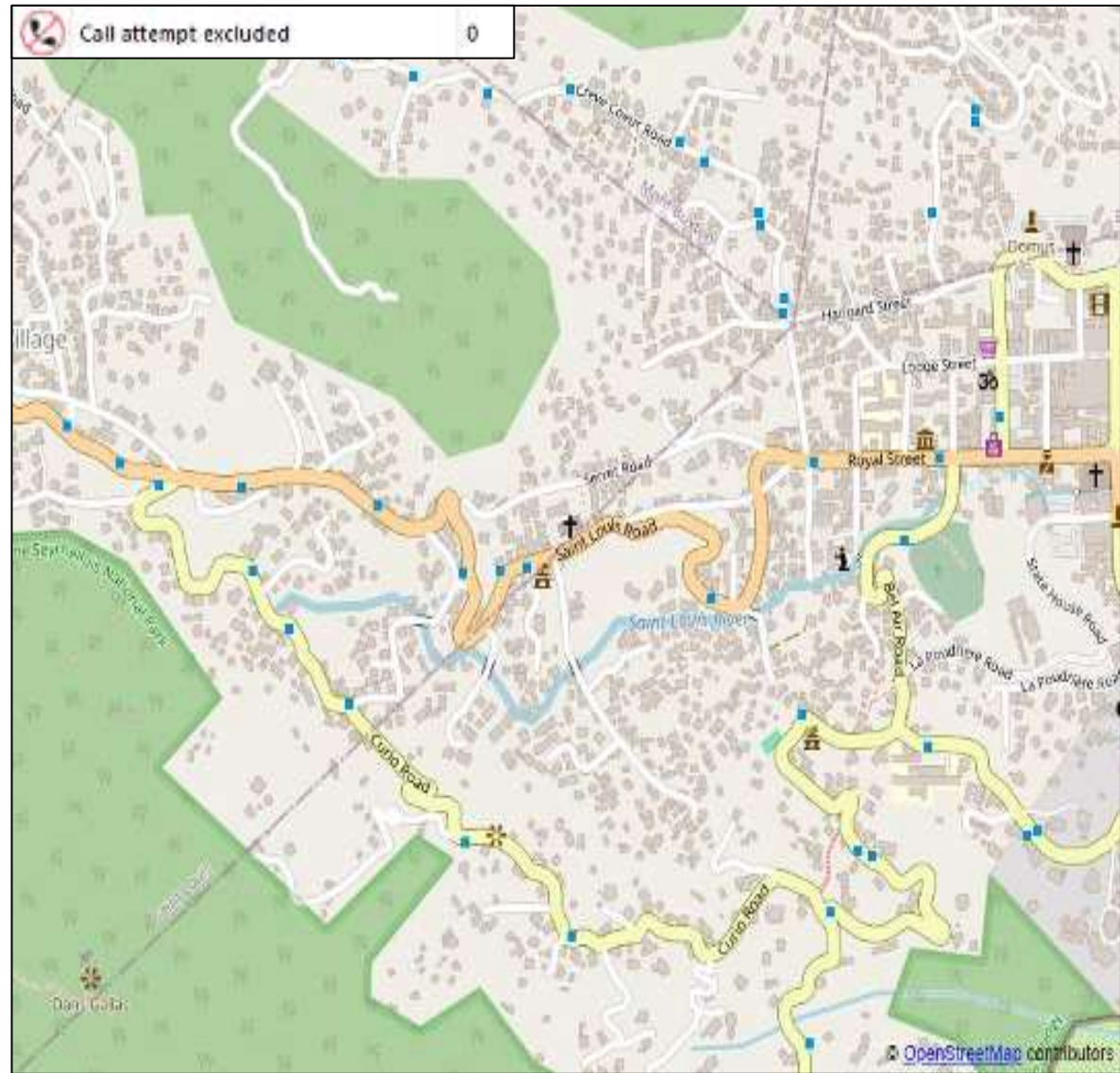


Phase-2 LONG CALL EXCLUDED EVENTS

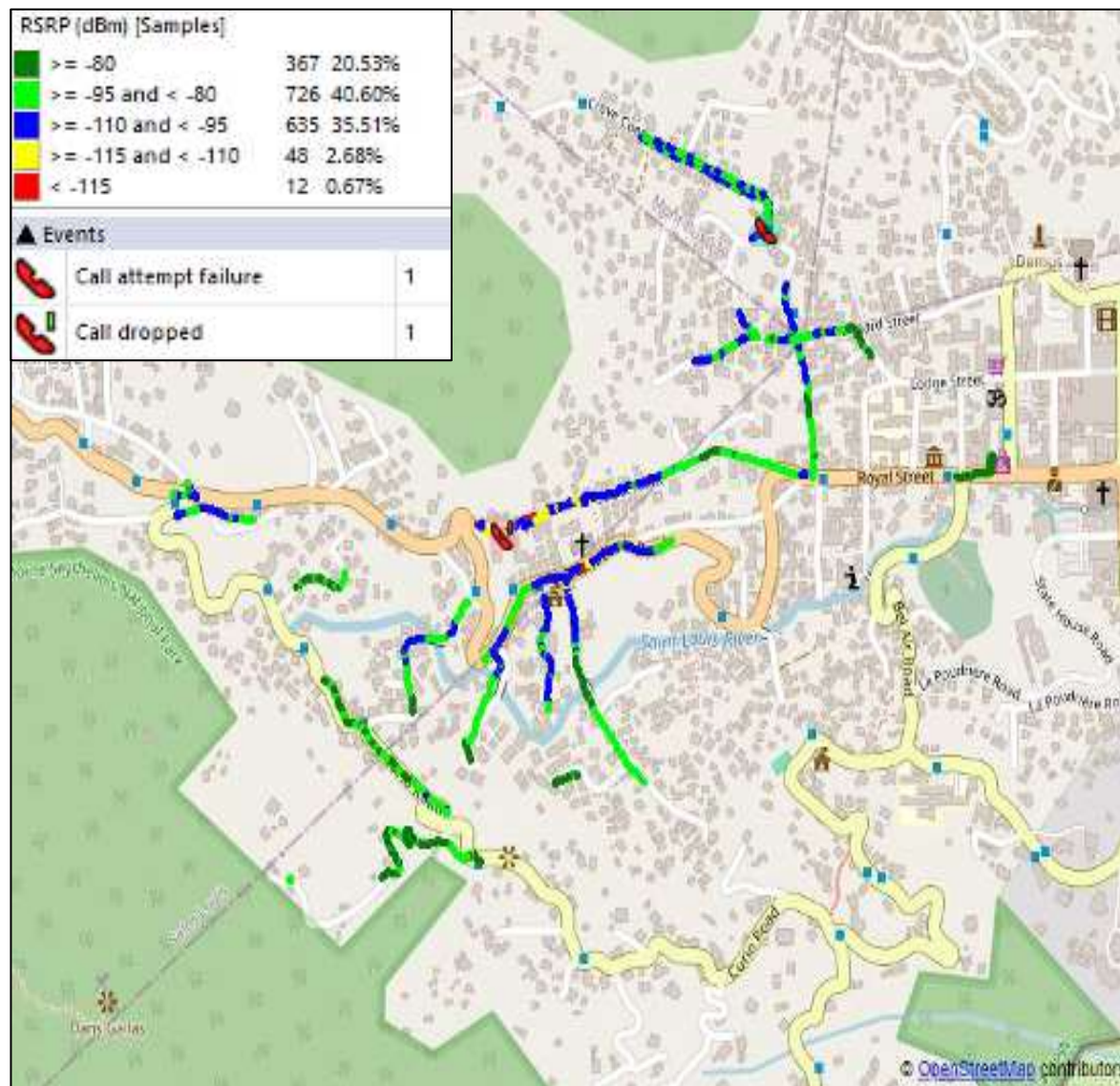
Airtel LC MO



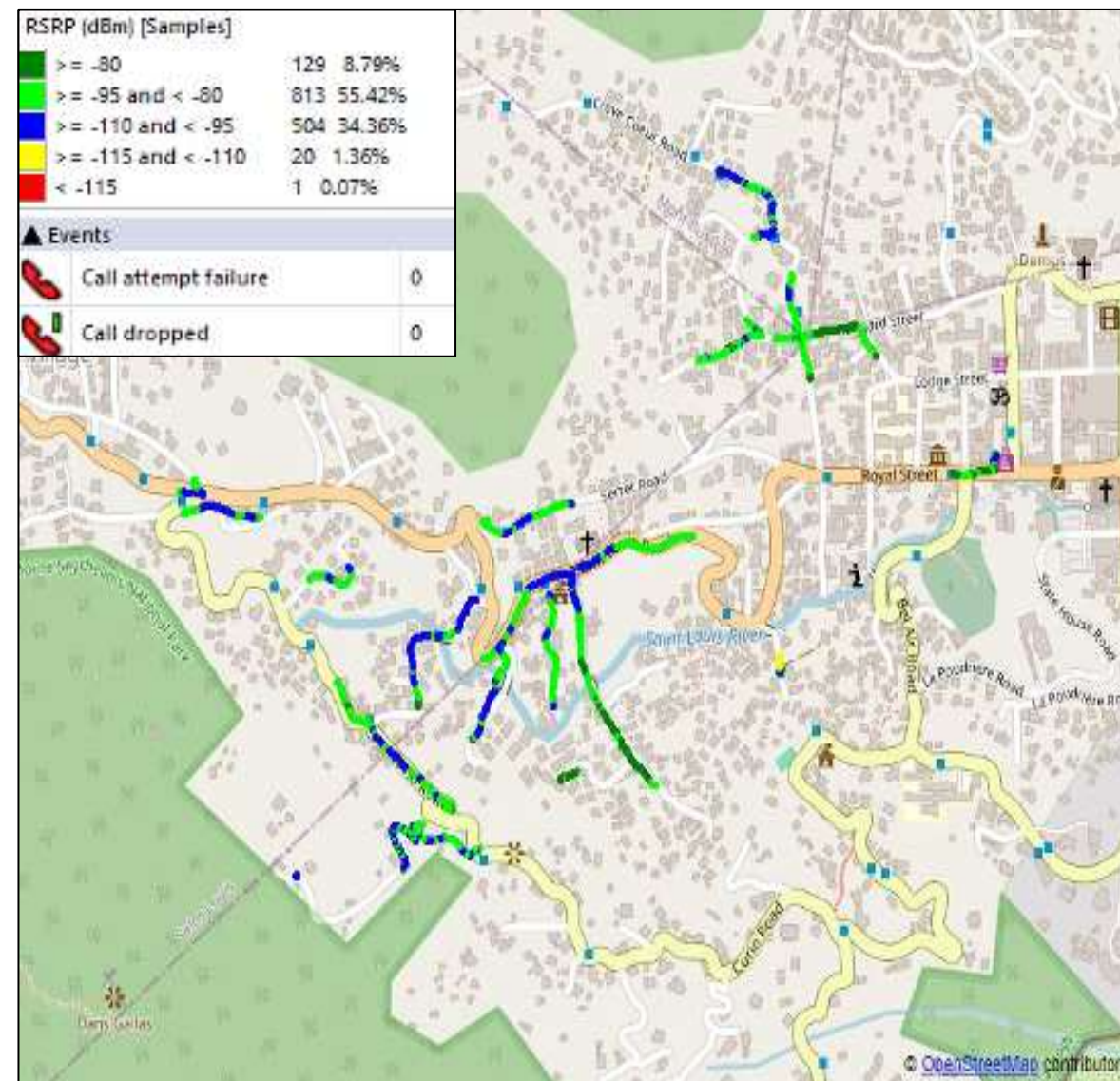
CWS LC MO



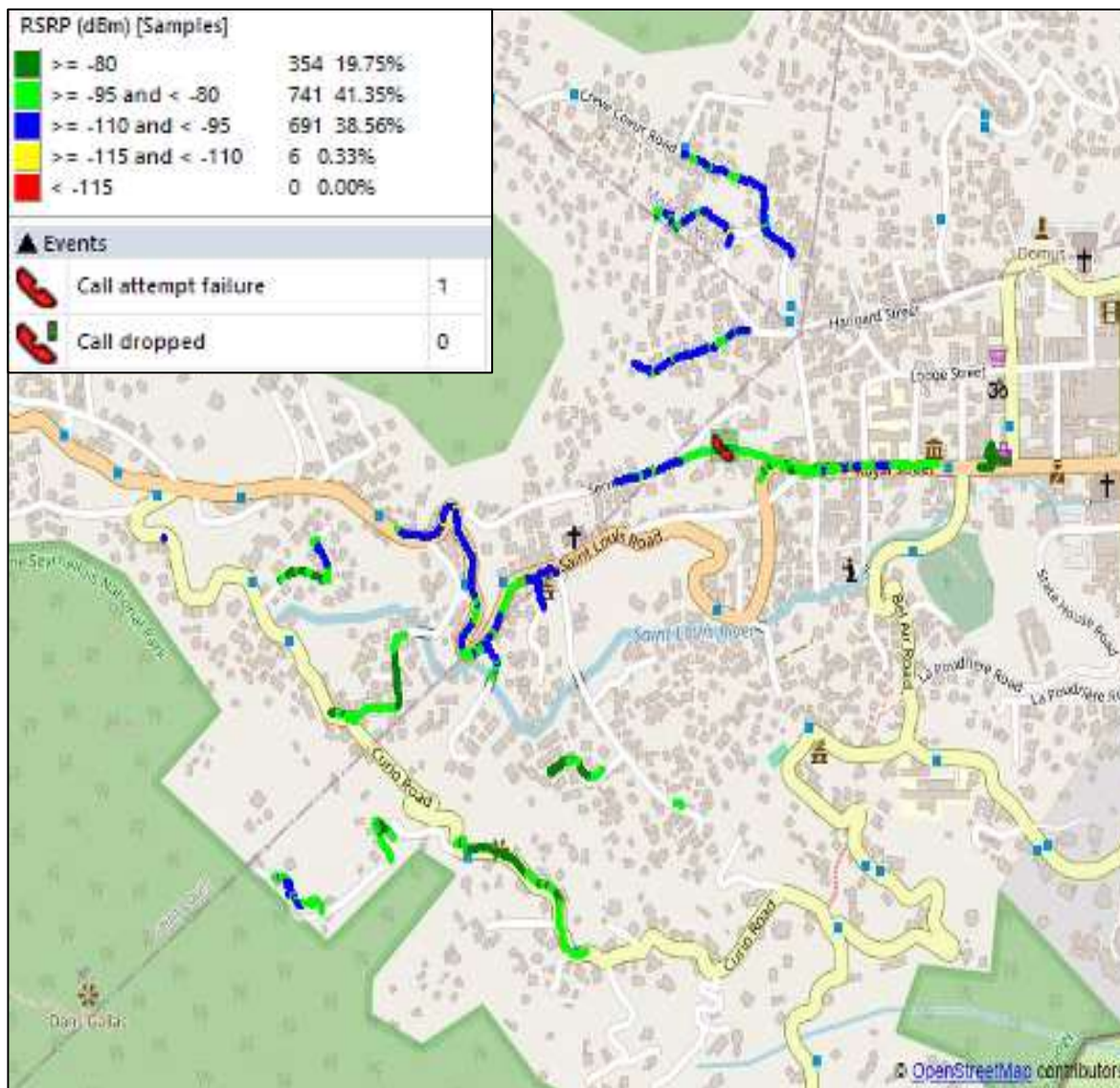
Airtel LC MO



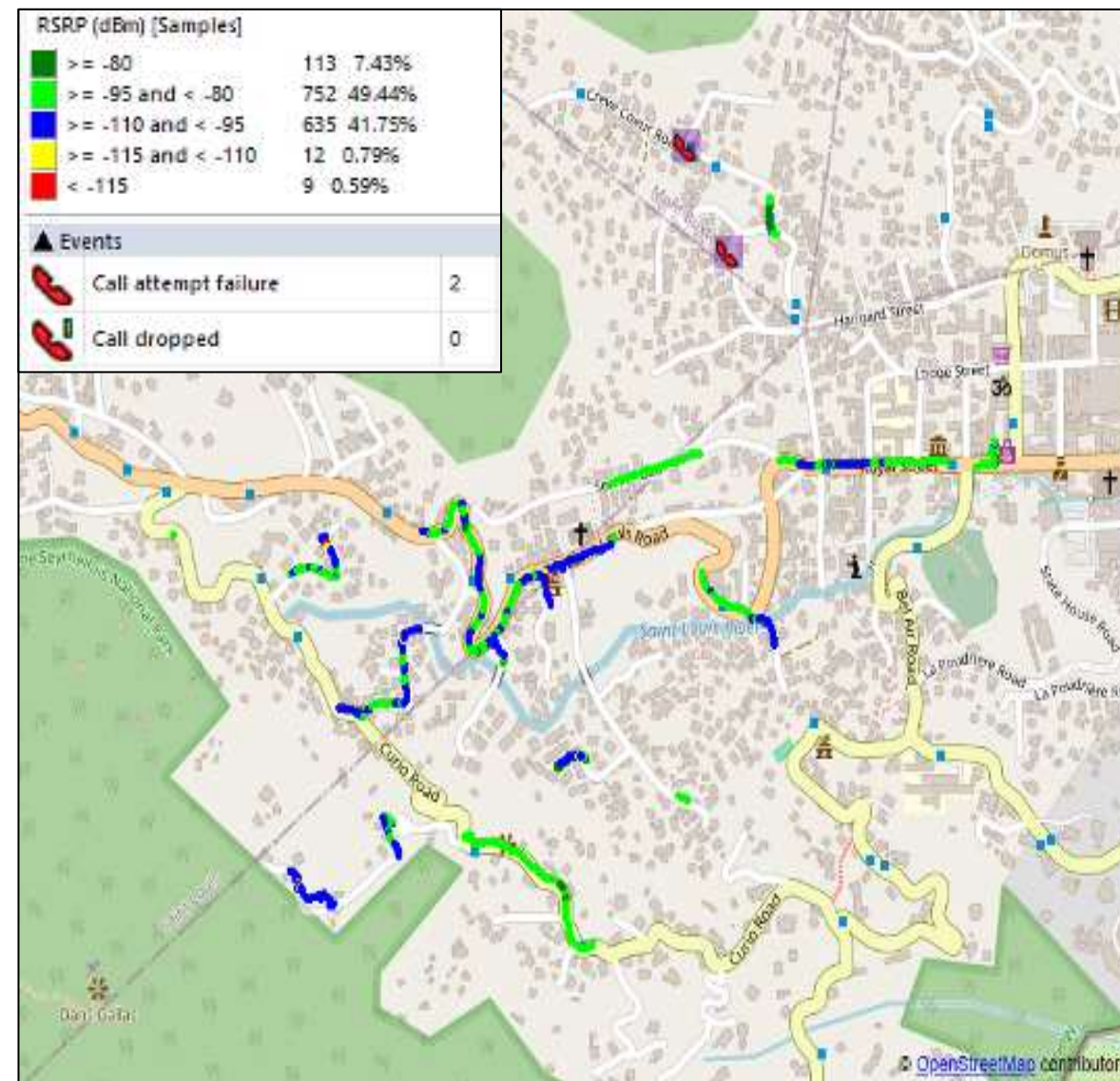
CWS LC MO



Airtel LC MO

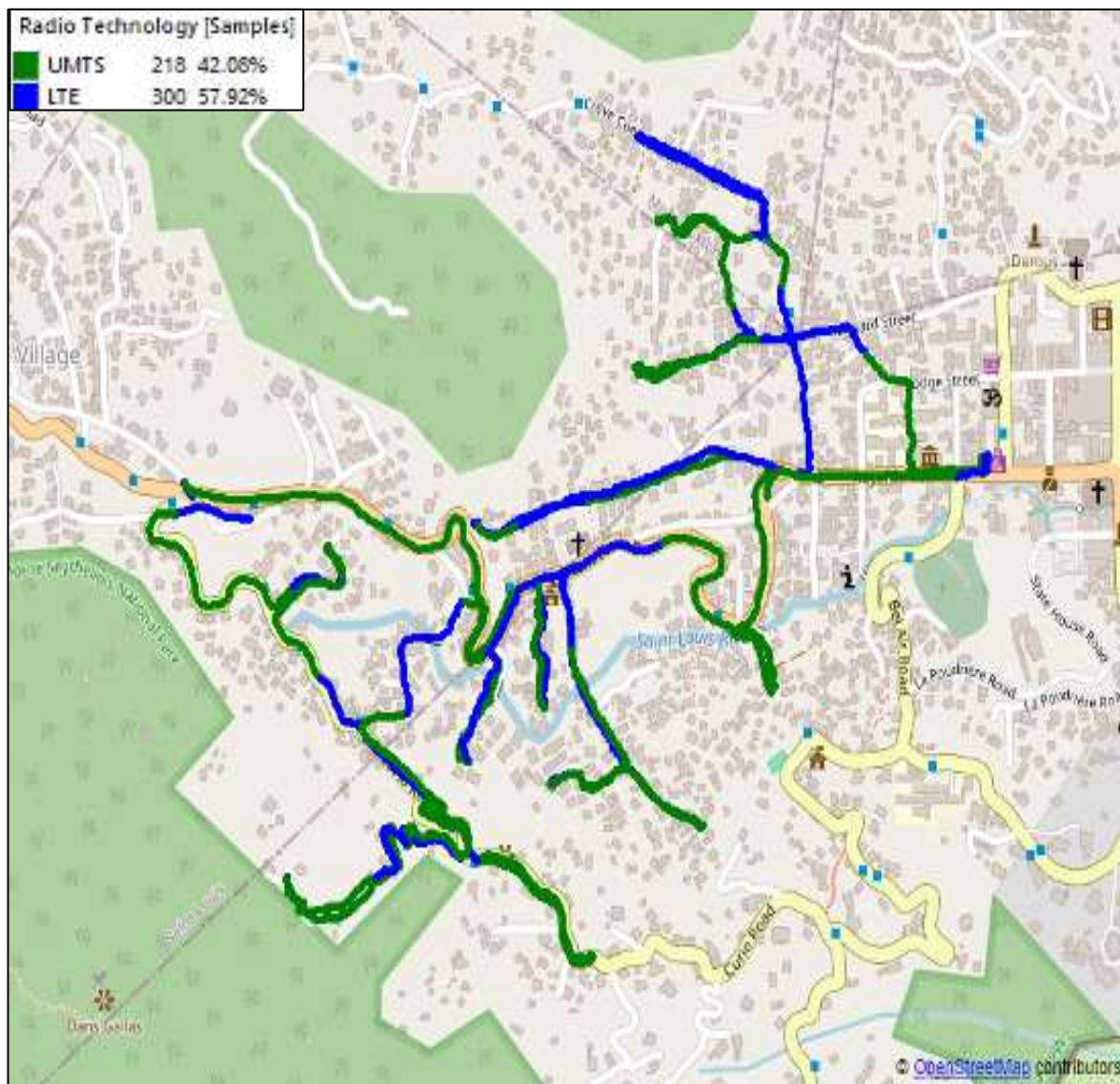


CWS LC MO

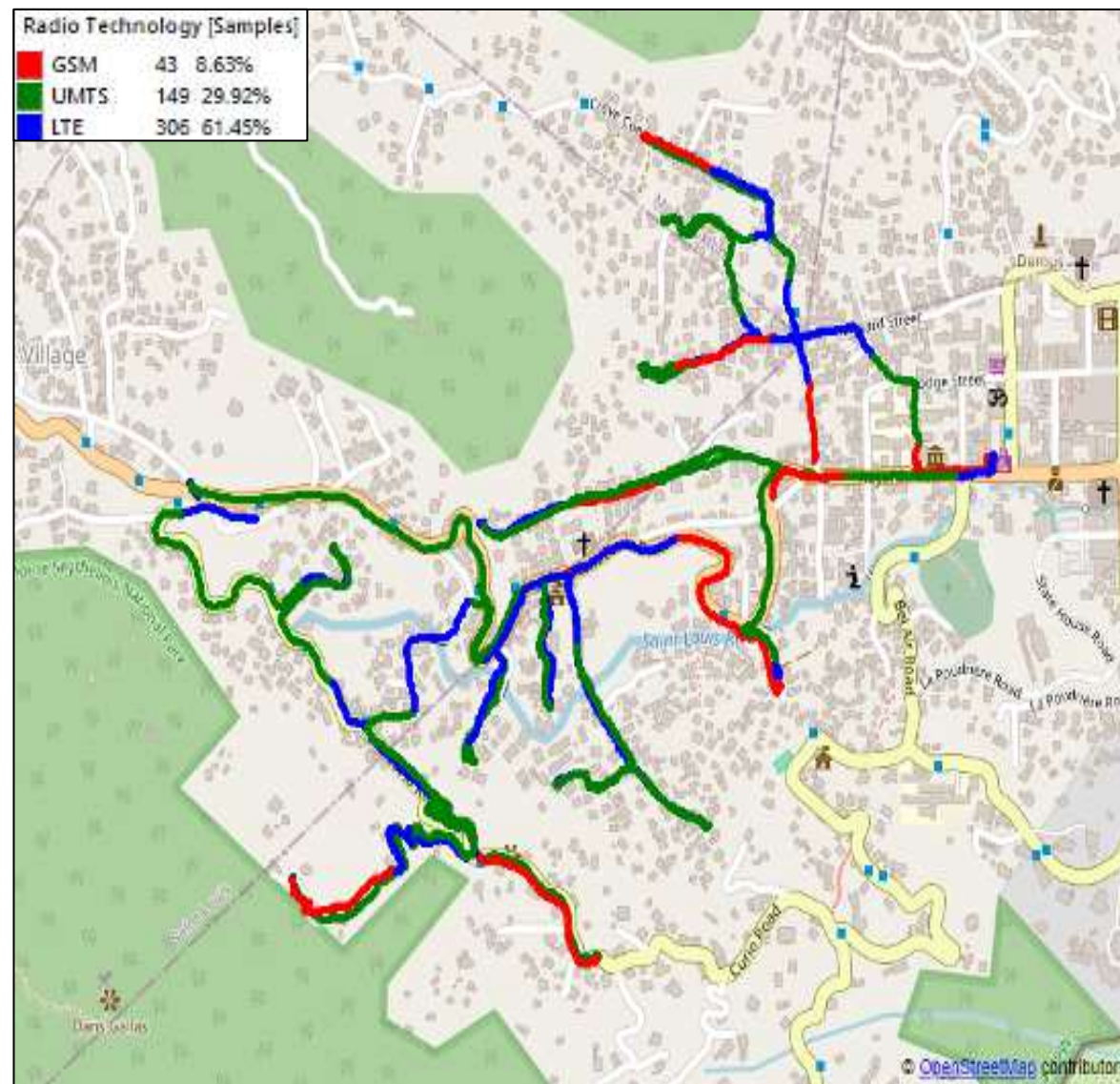


LONG CALL DRIVE PLOTS

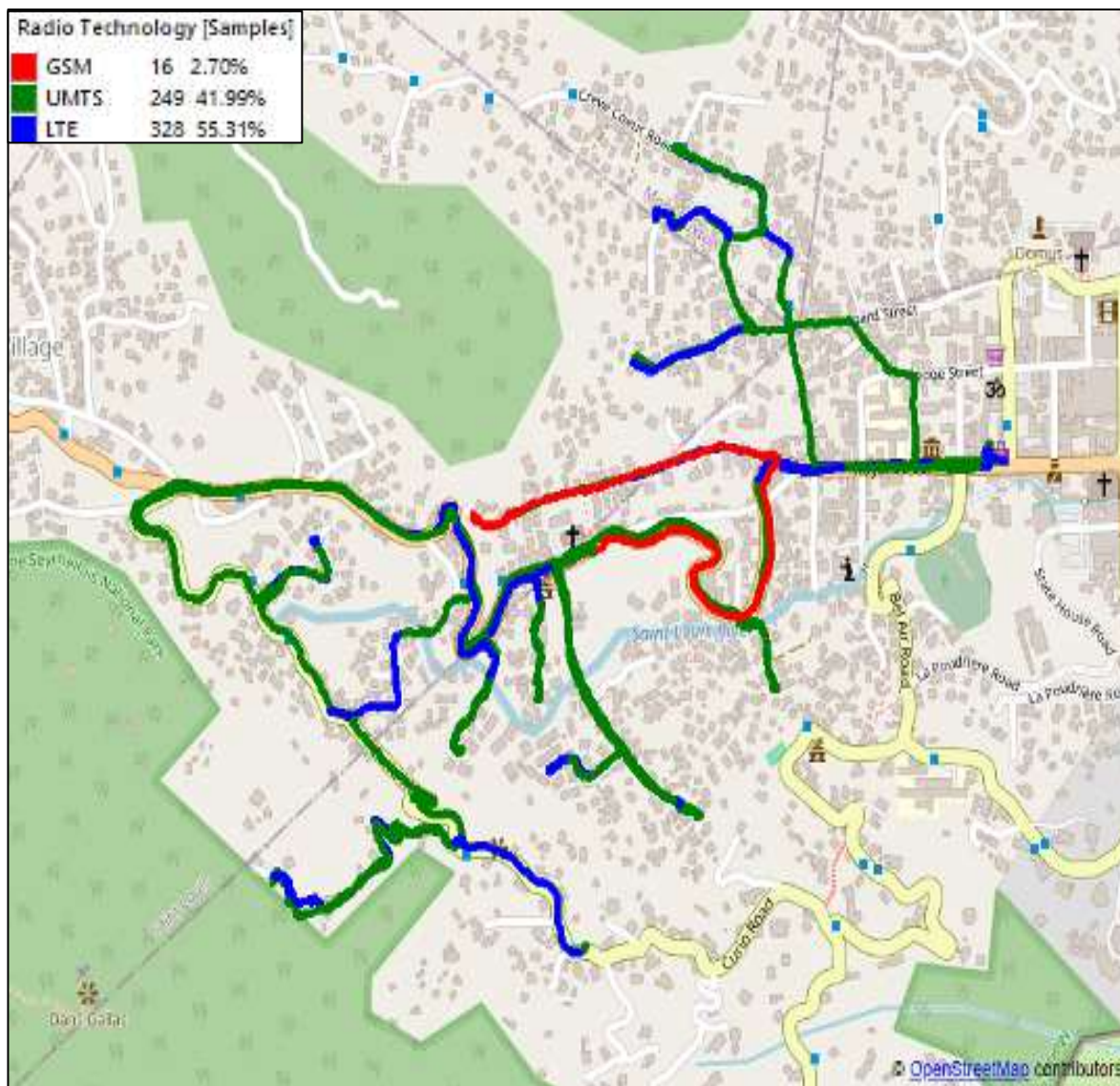
Airtel LC MO



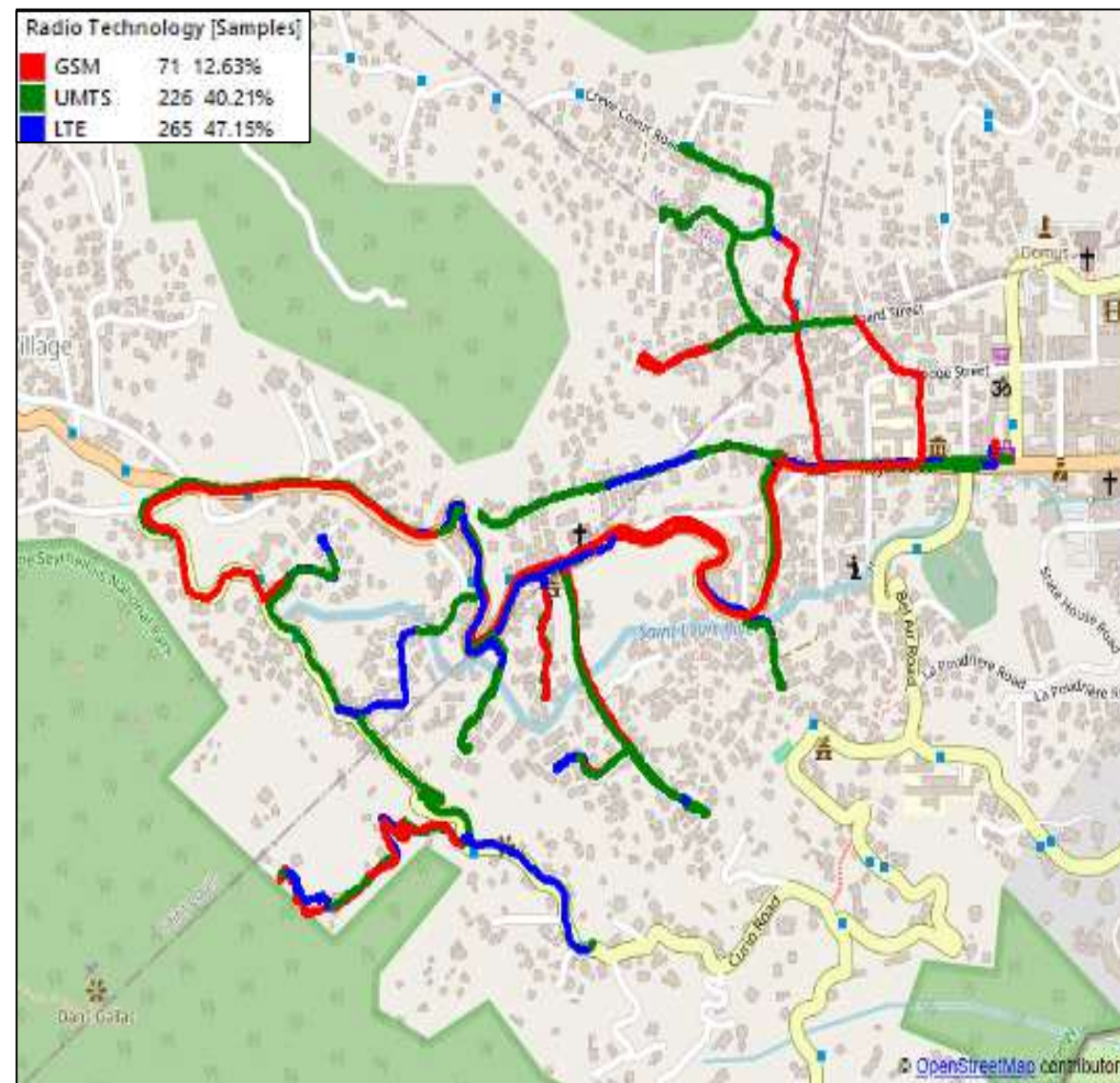
CWS LC MO



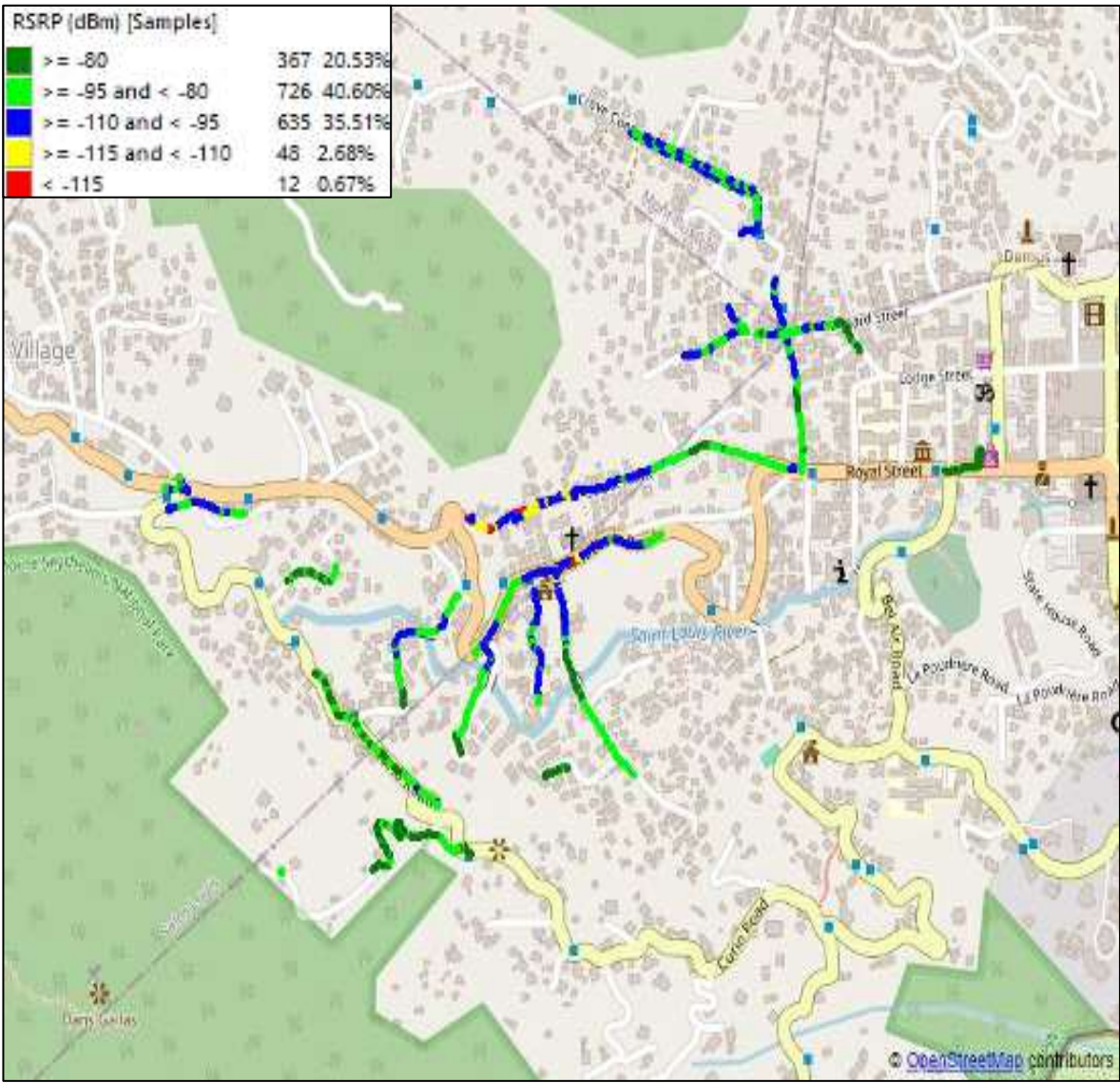
Airtel LC MO



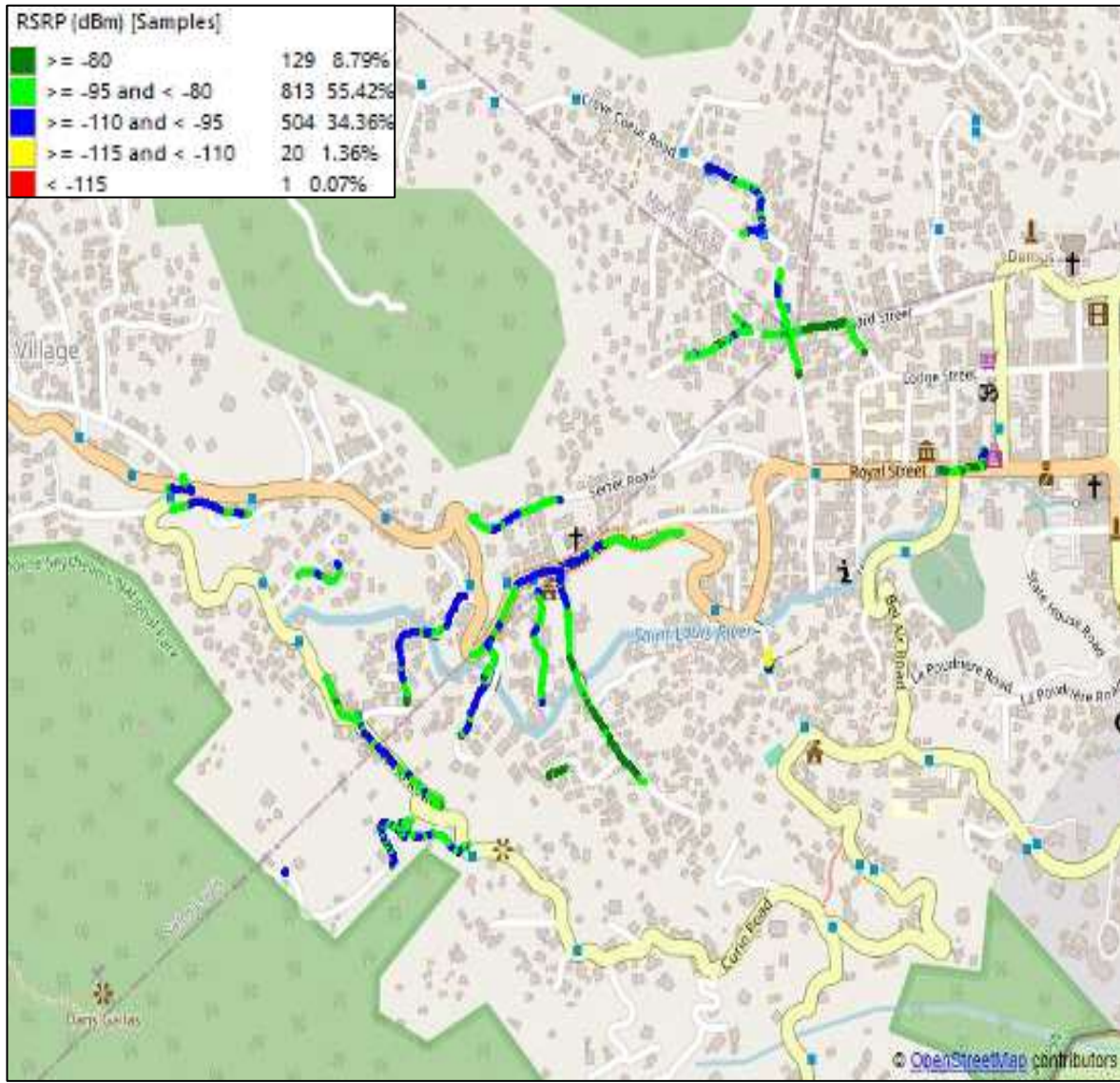
CWS LC MO



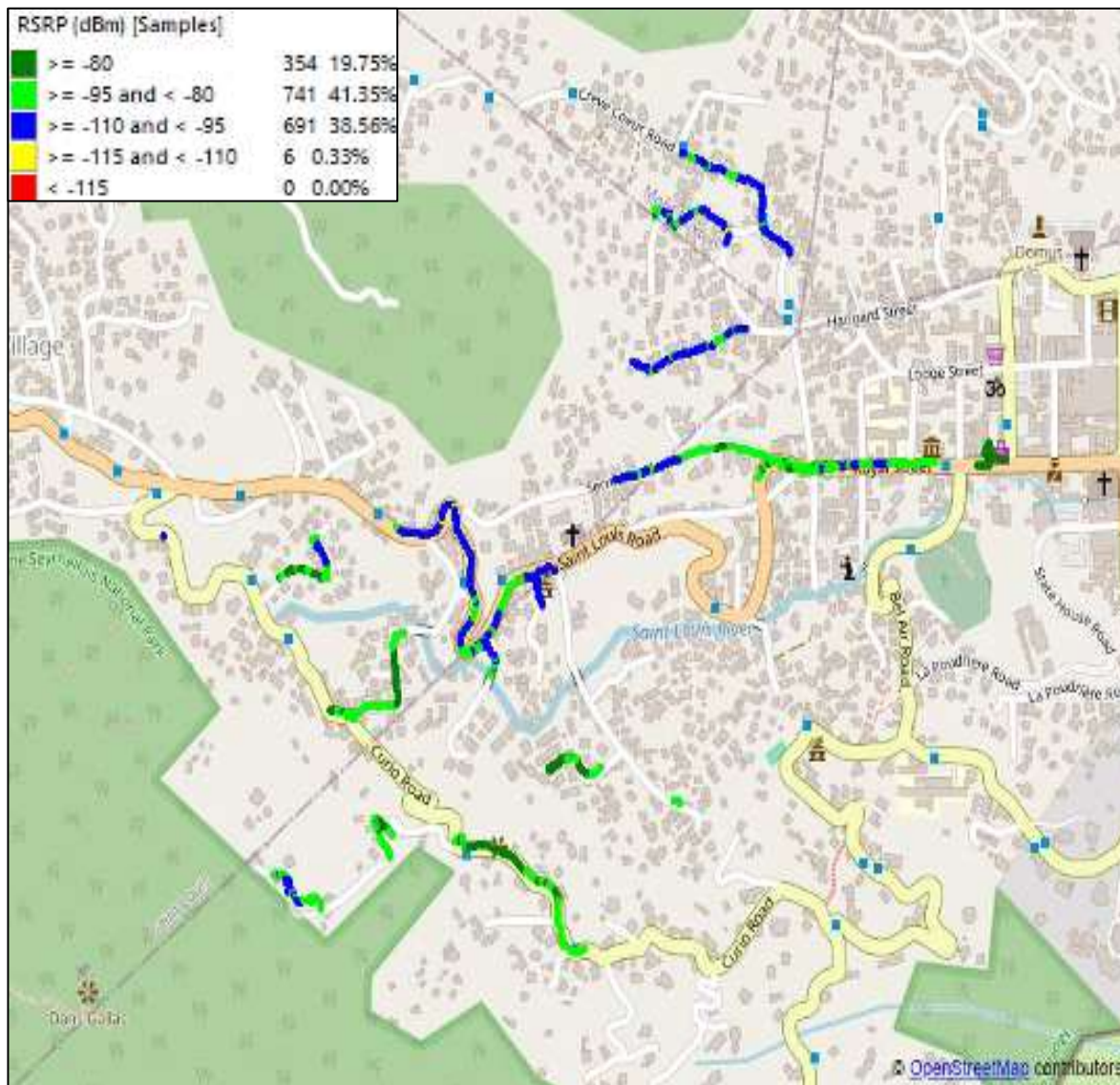
Airtel LC MO



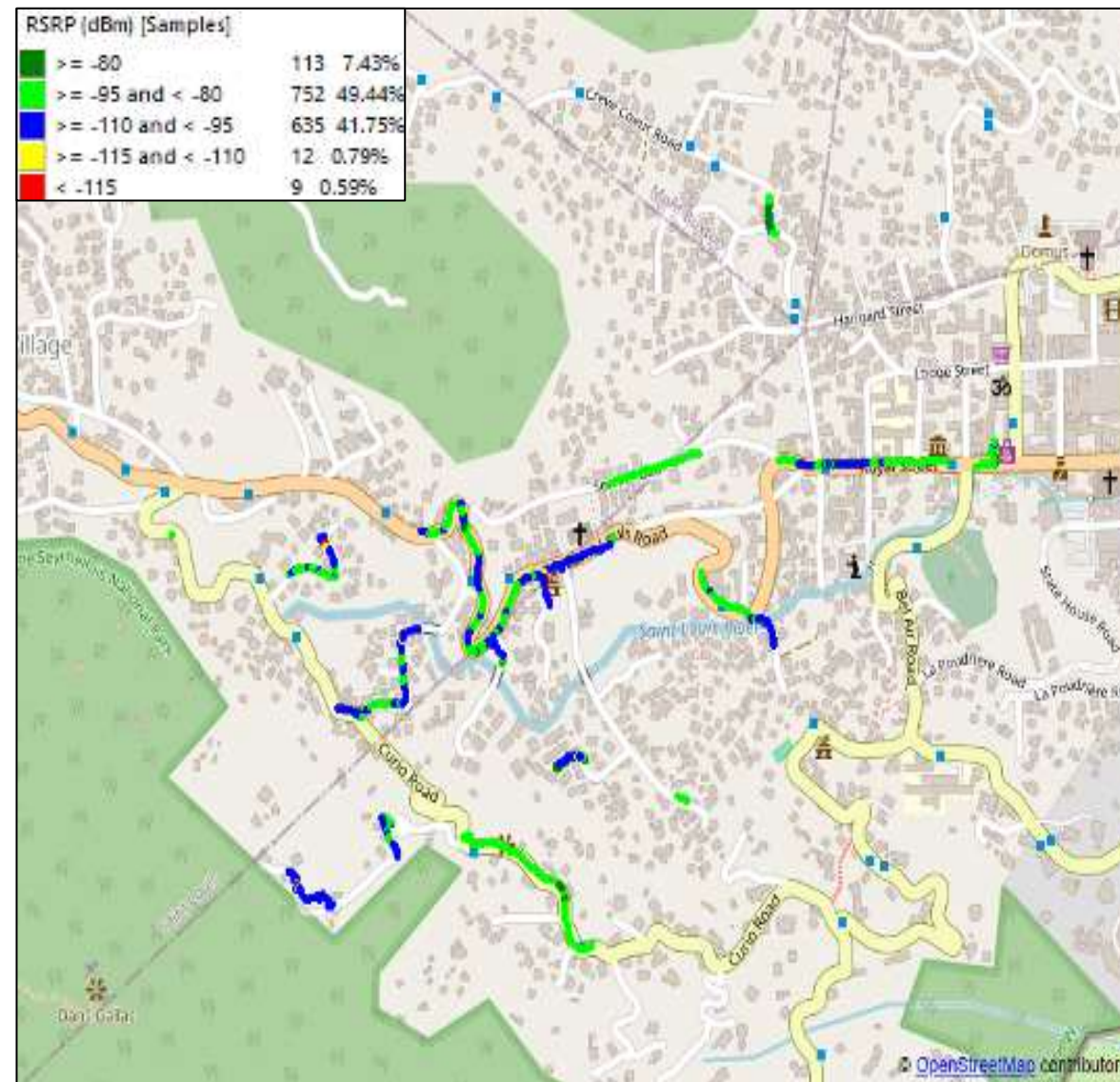
CWS LC MO



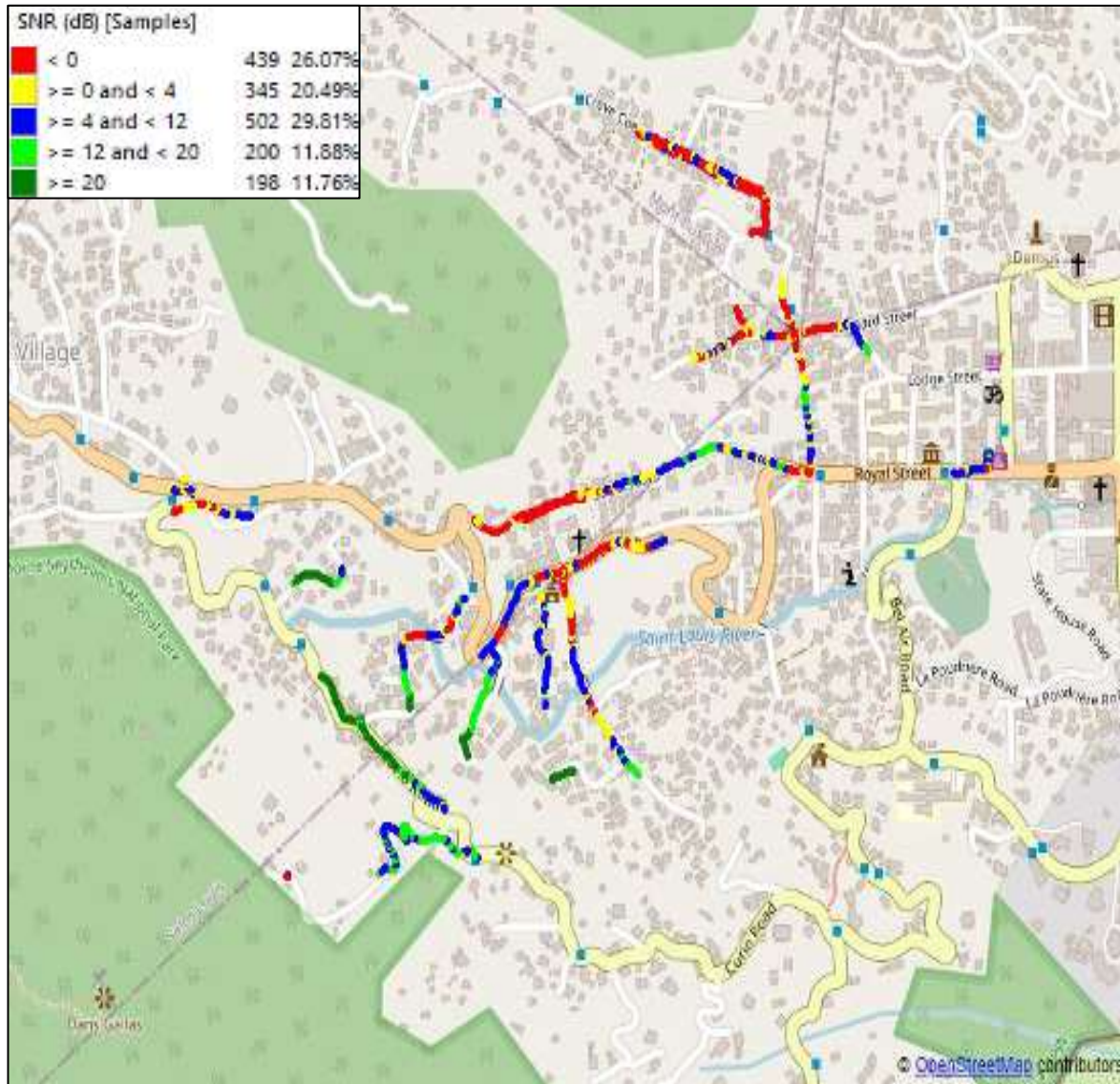
Airtel LC MO



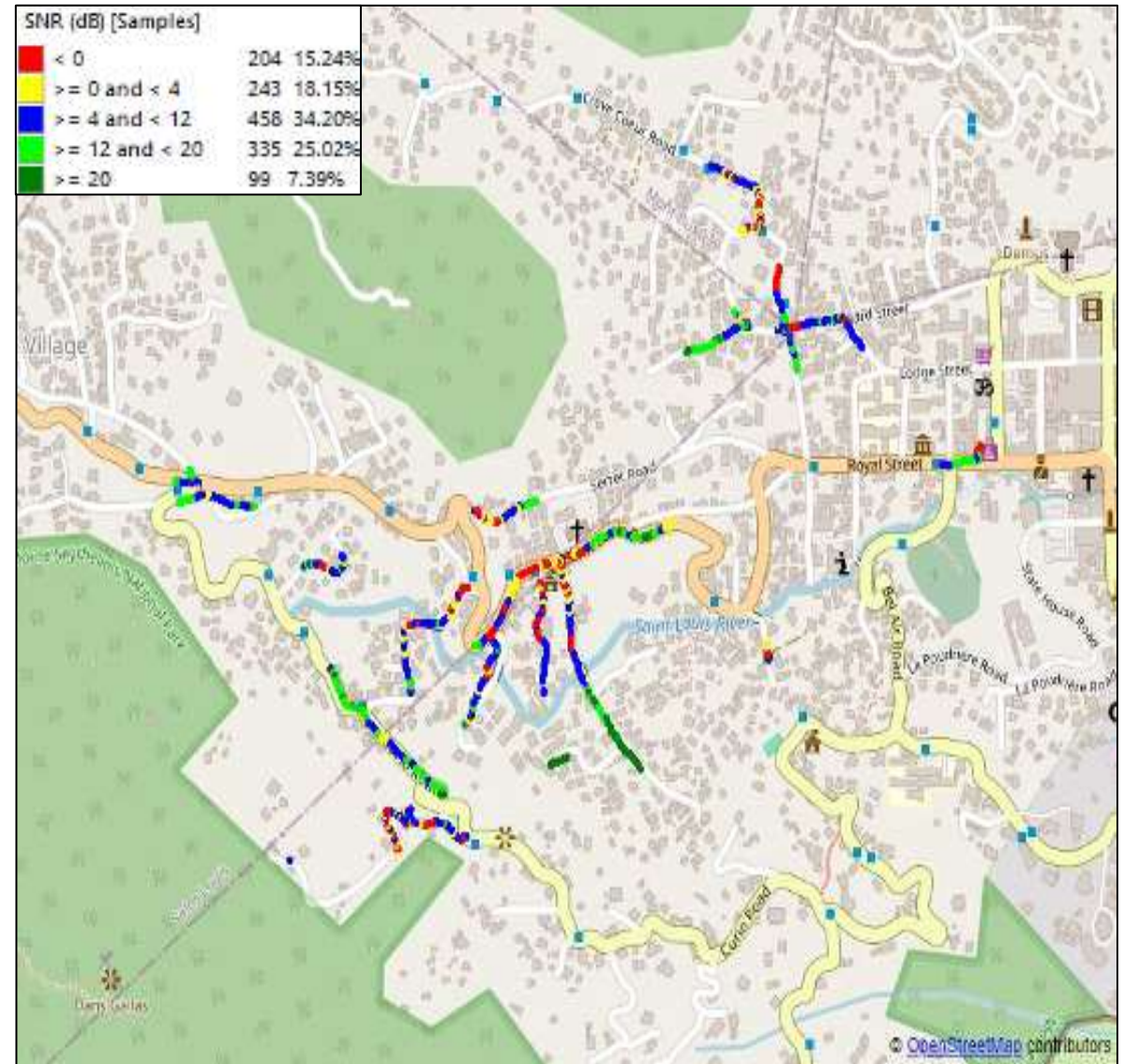
CWS LC MO



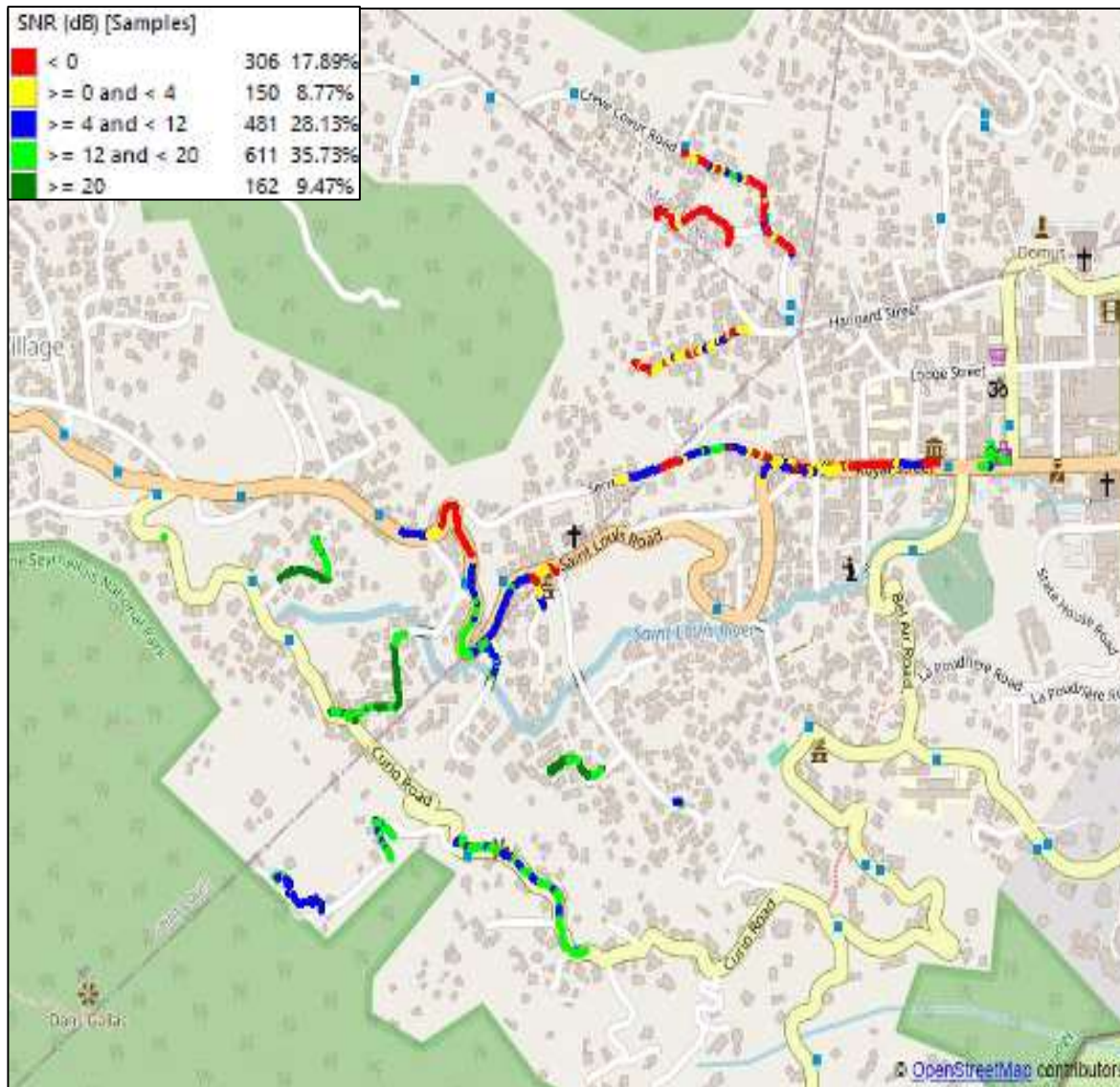
Airtel LC MO



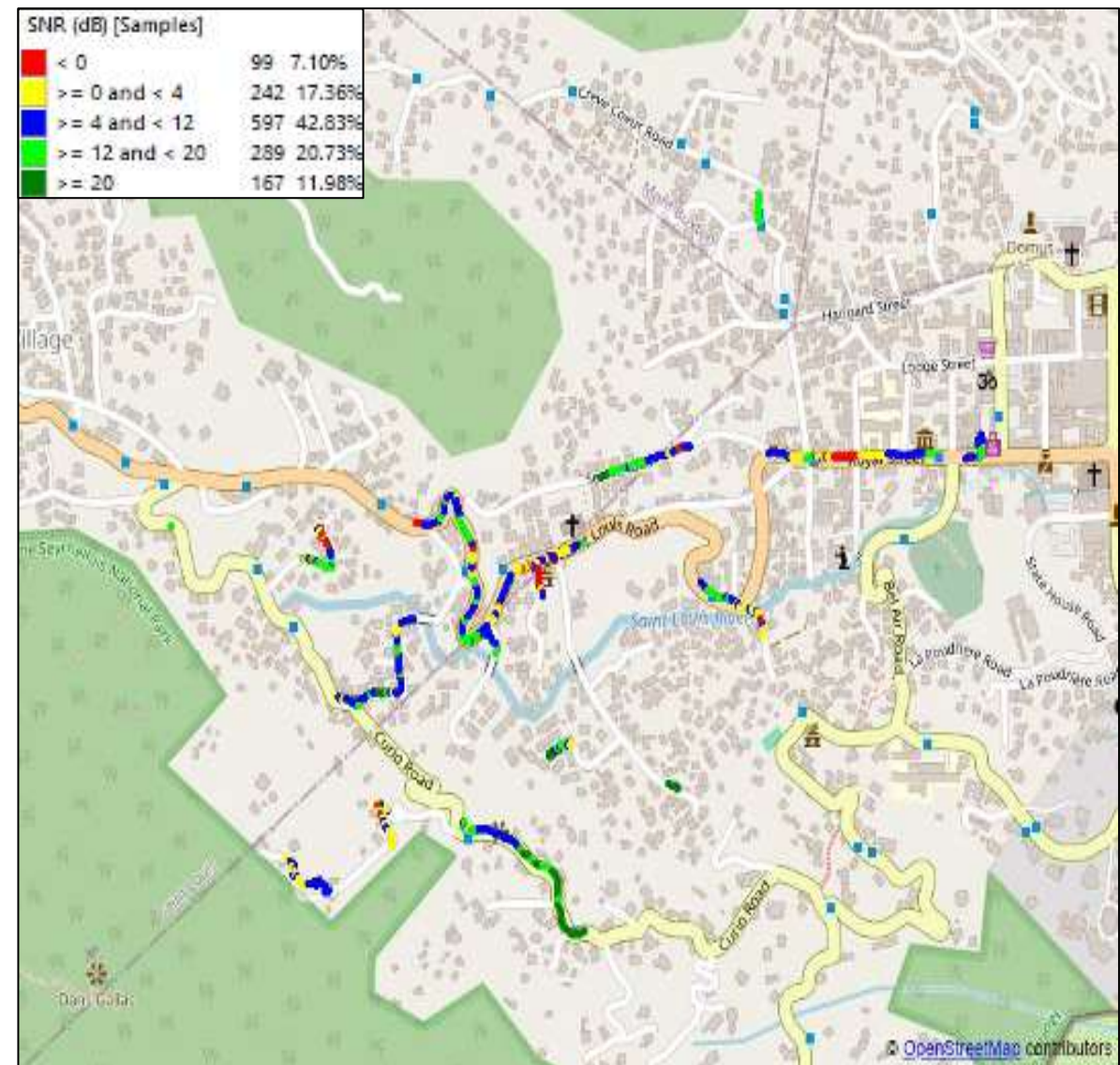
CWS LC MO



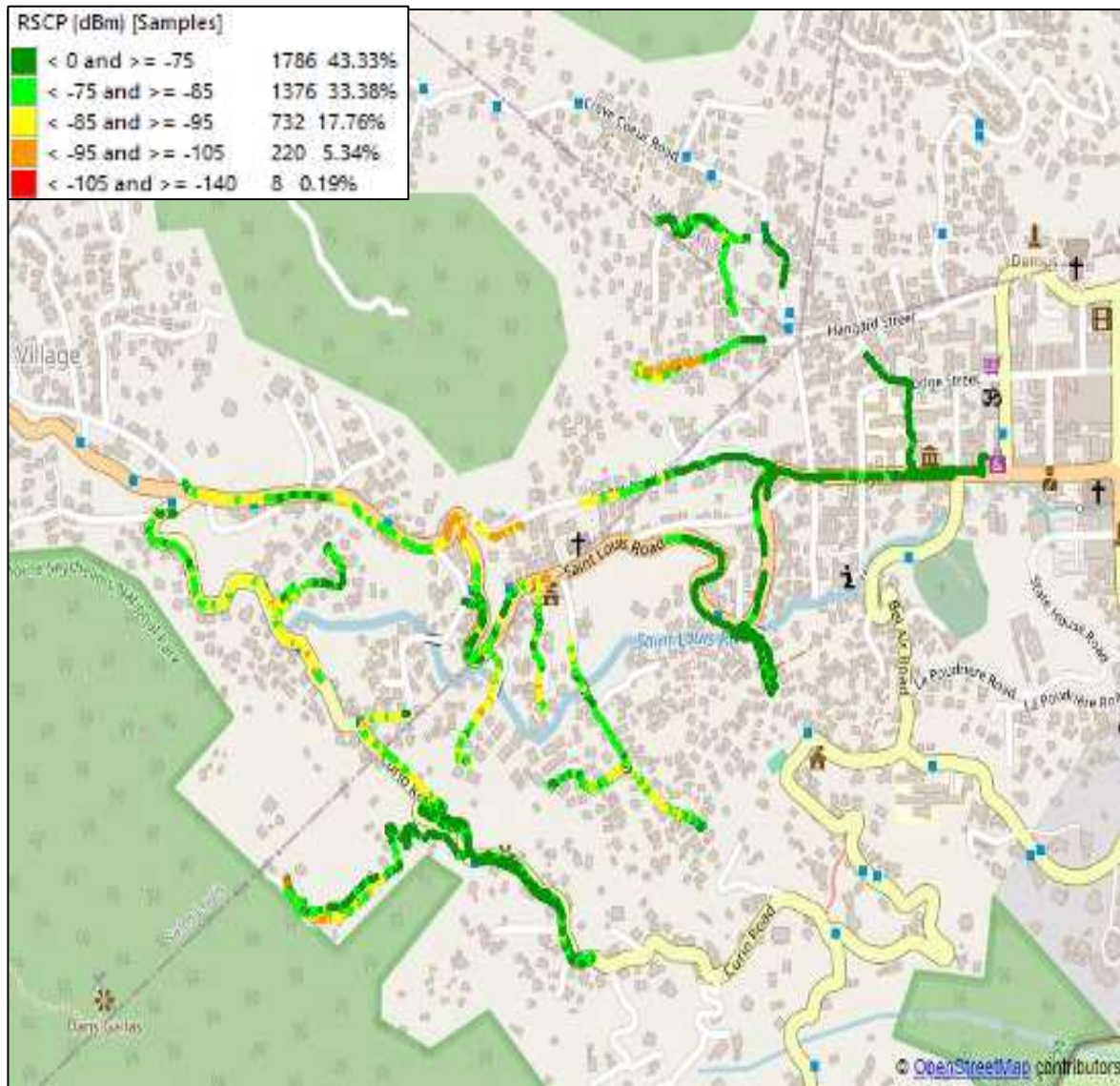
Airtel LC MO



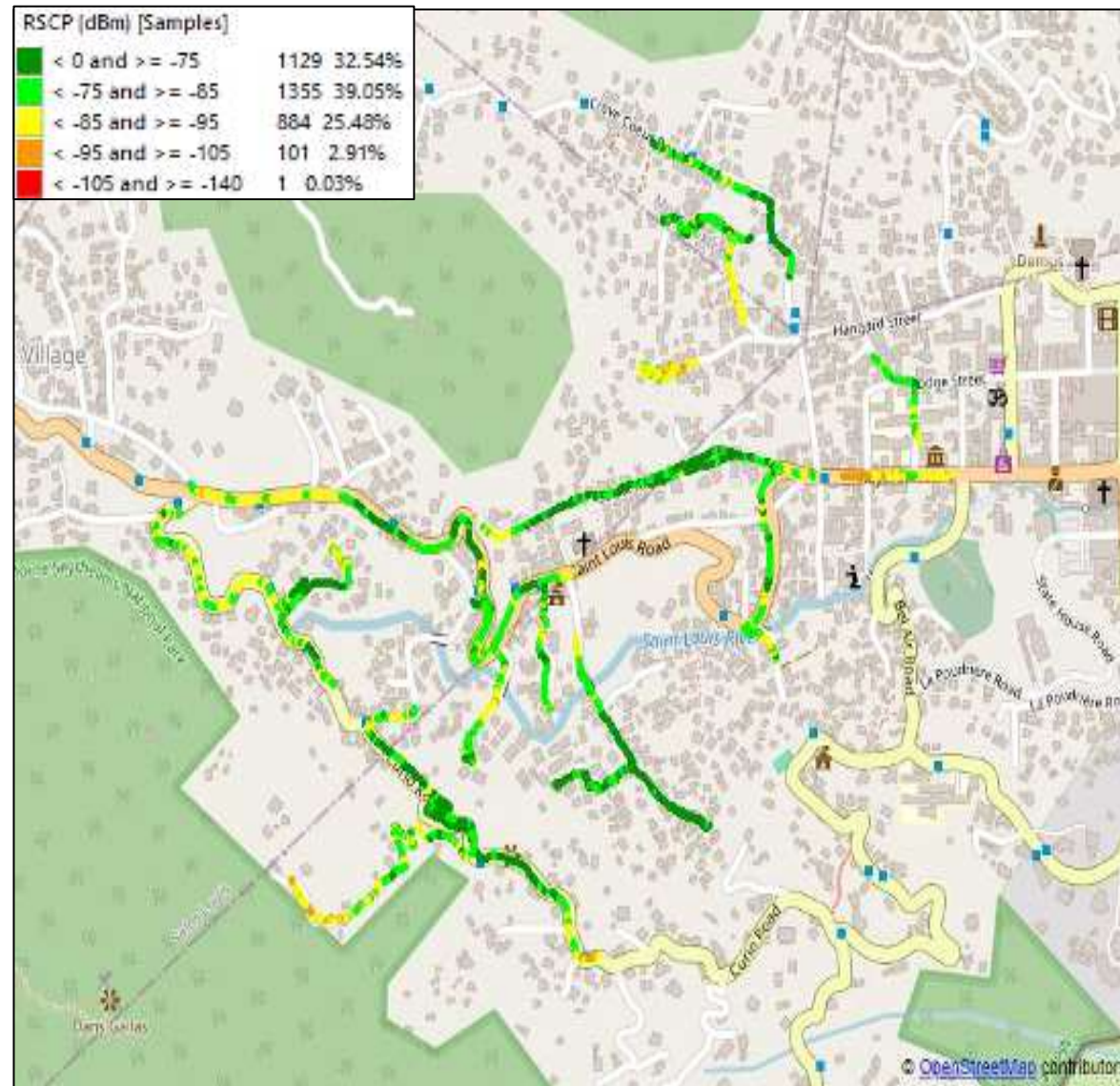
CWS LC MO



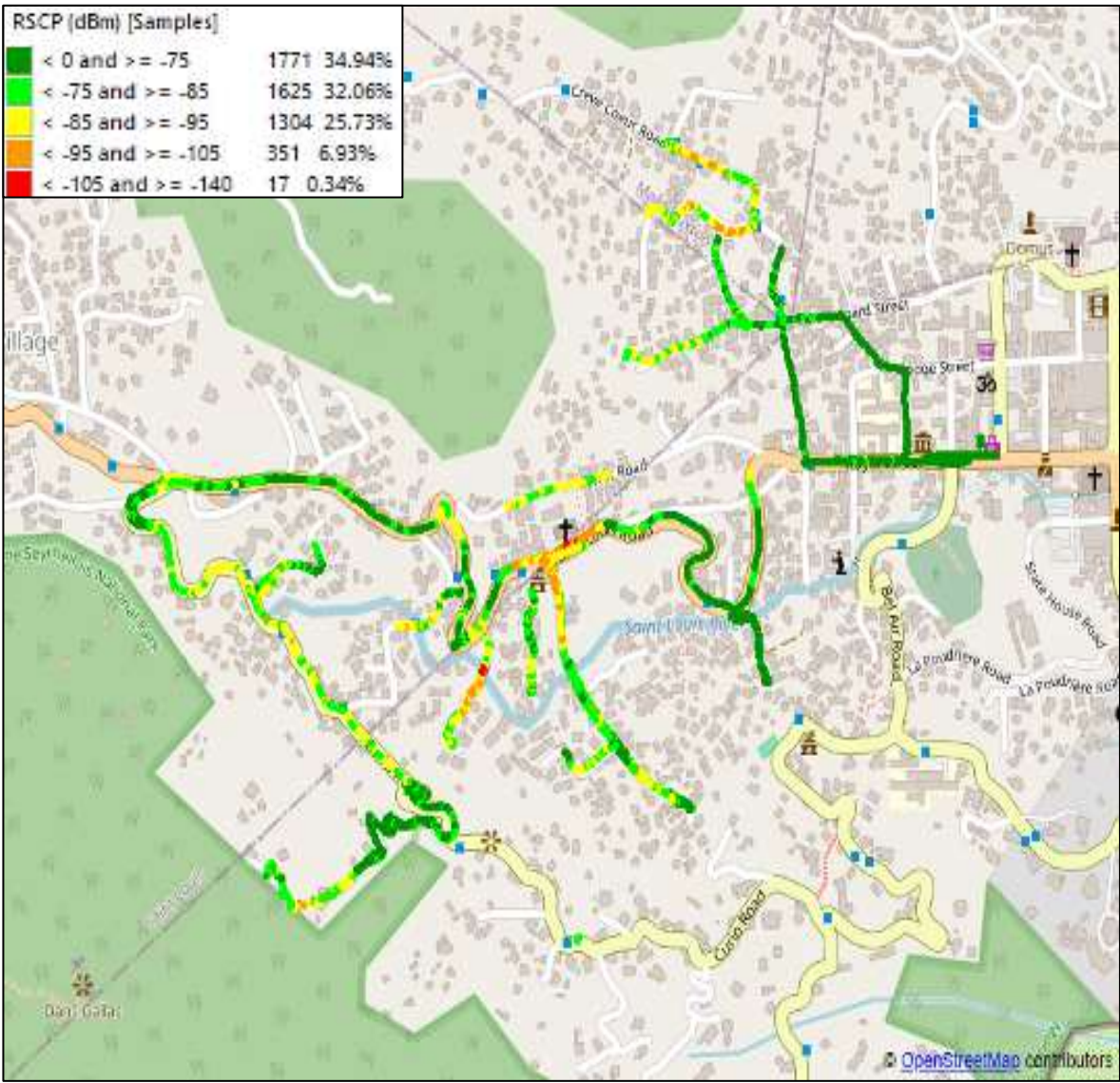
Airtel LC MO



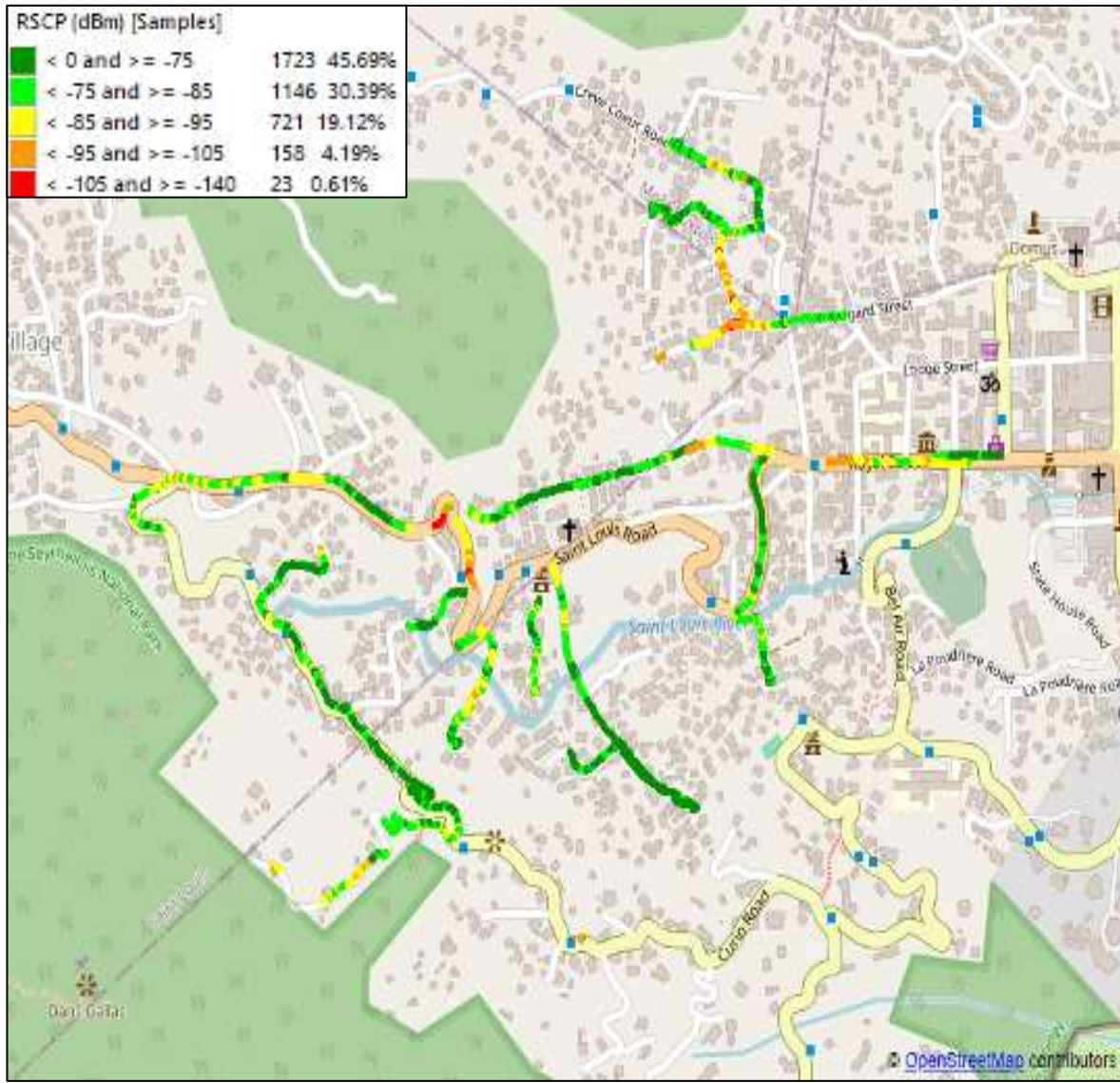
CWS LC MO



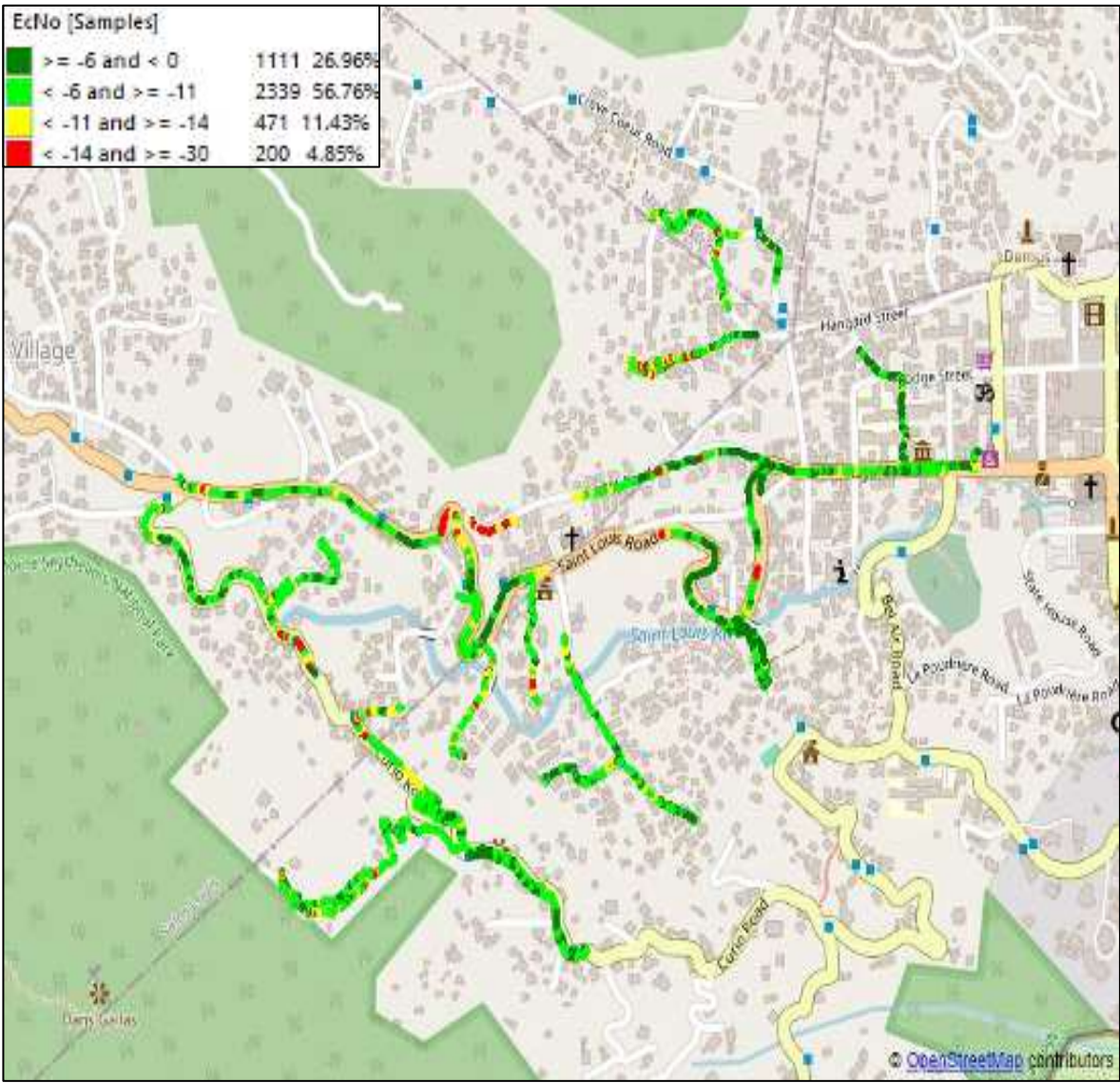
Airtel LC MO



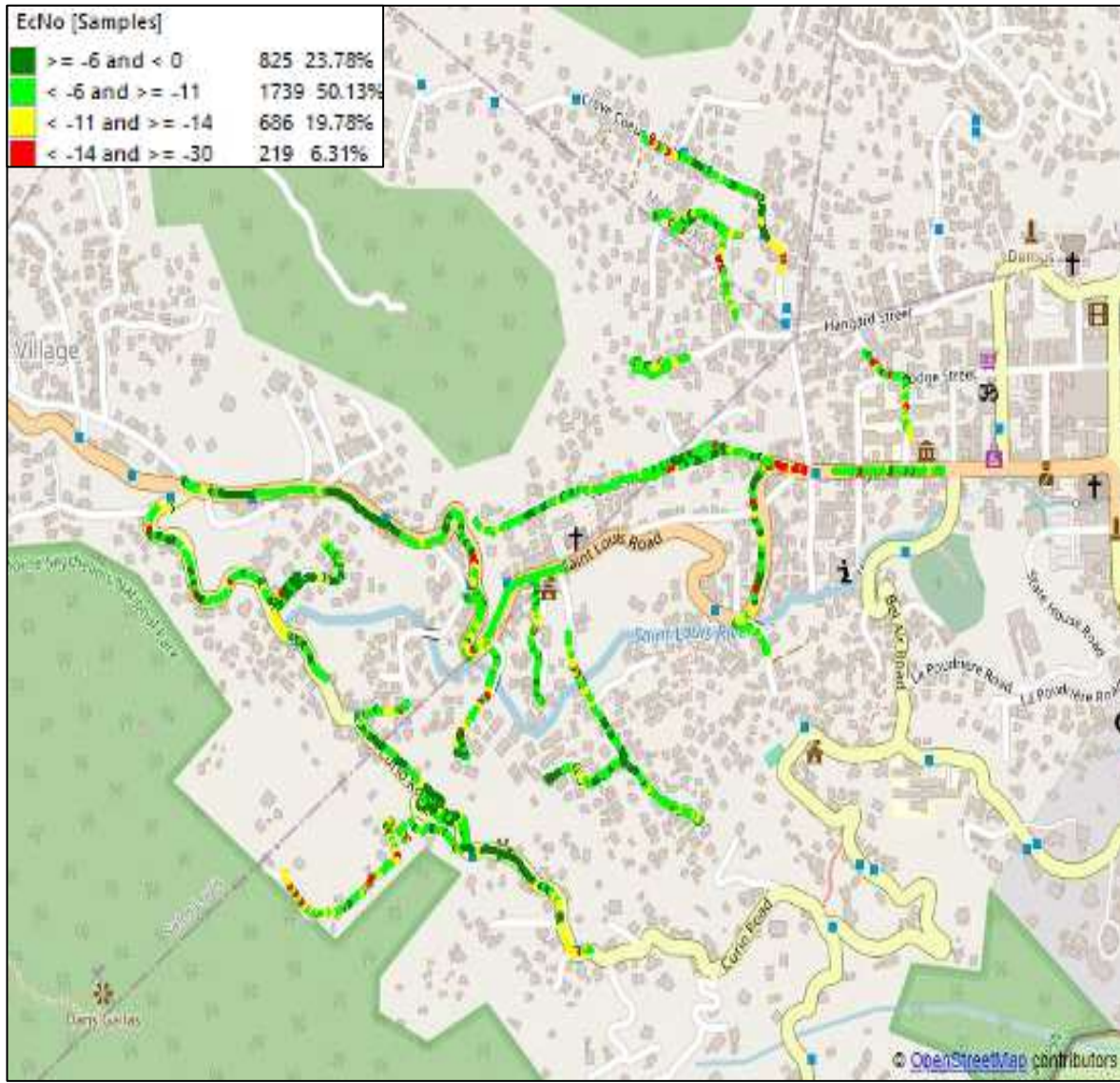
CWS LC MO



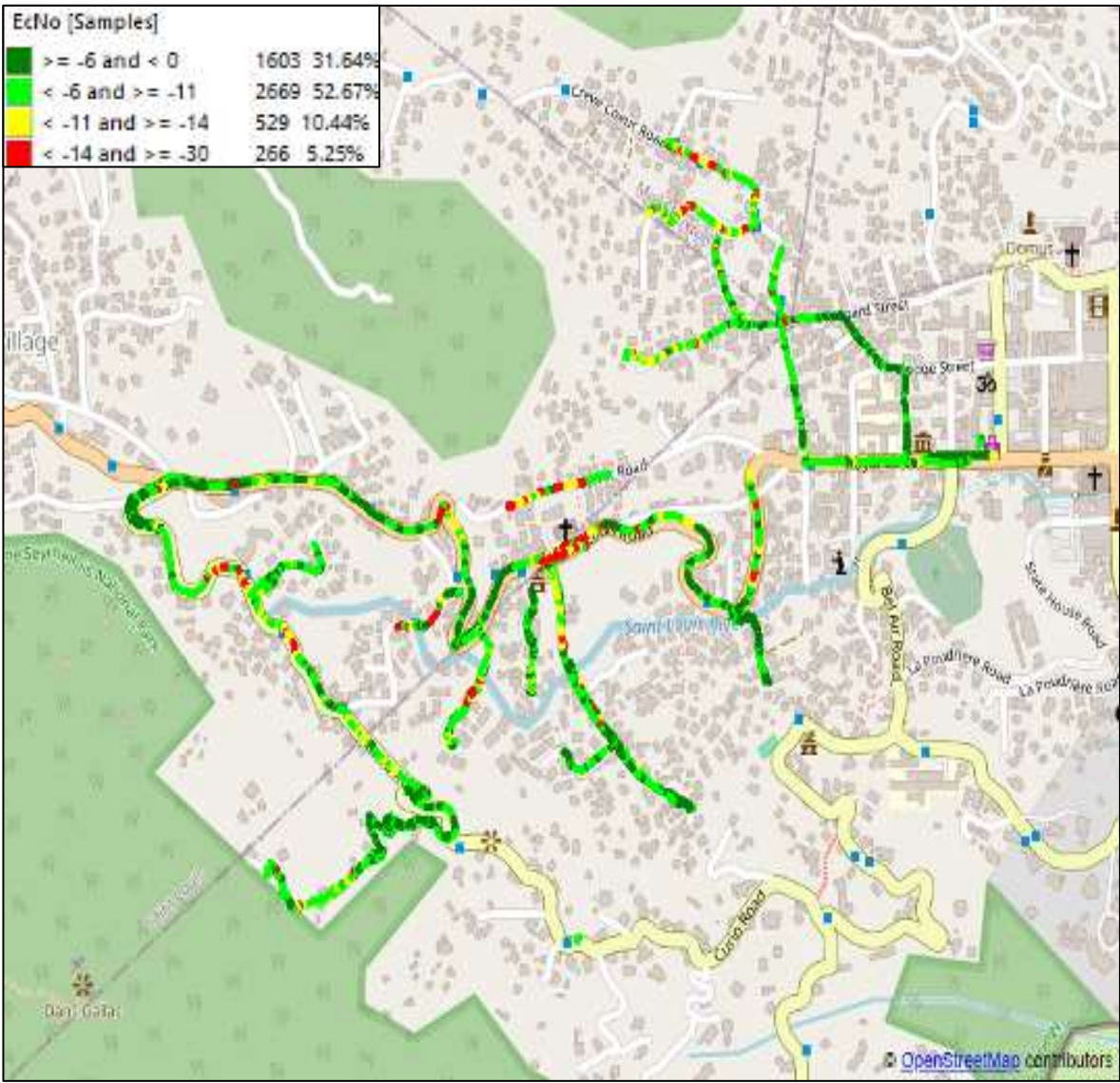
Airtel LC MO



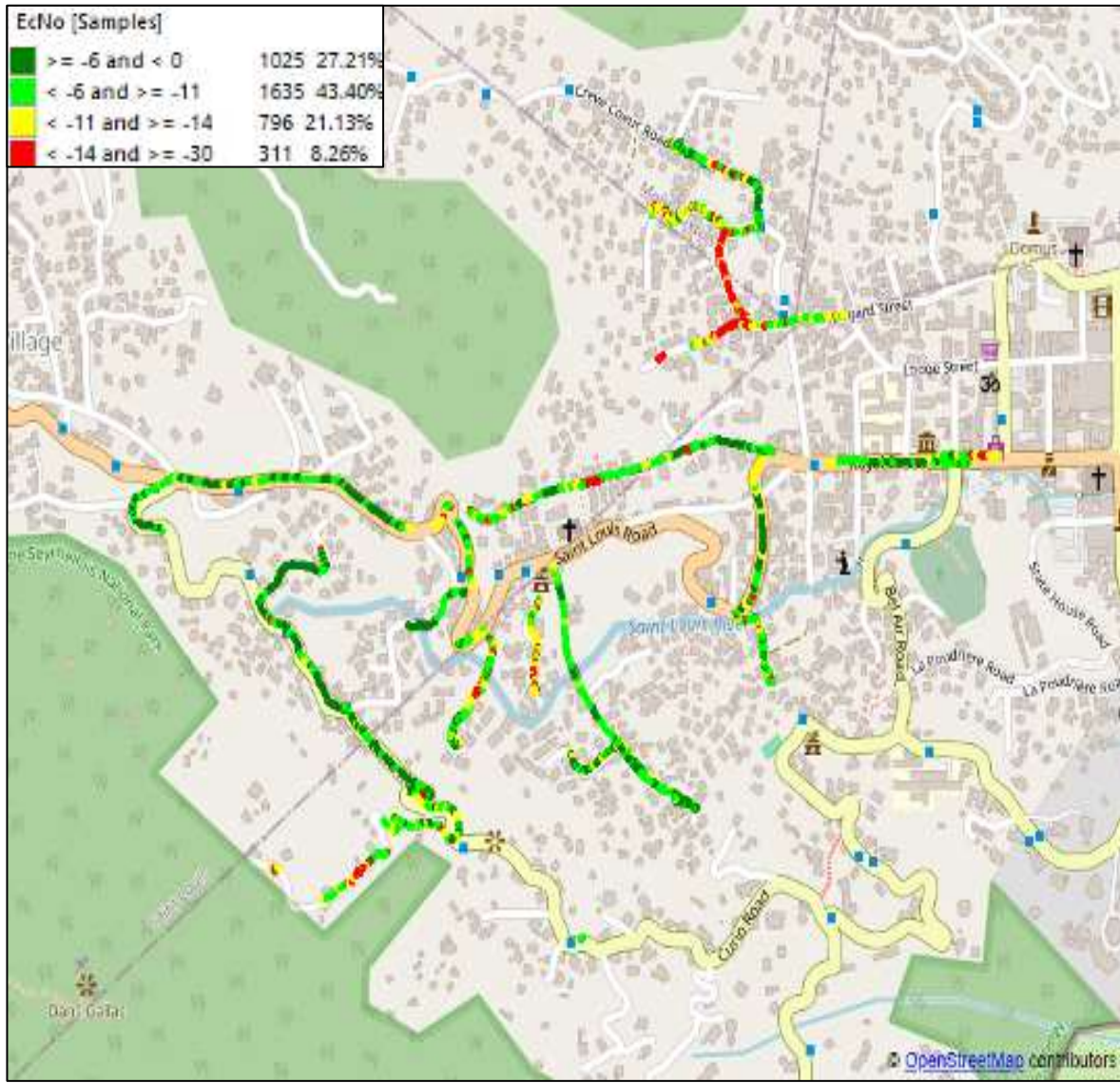
CWS LC MO



Airtel LC MO



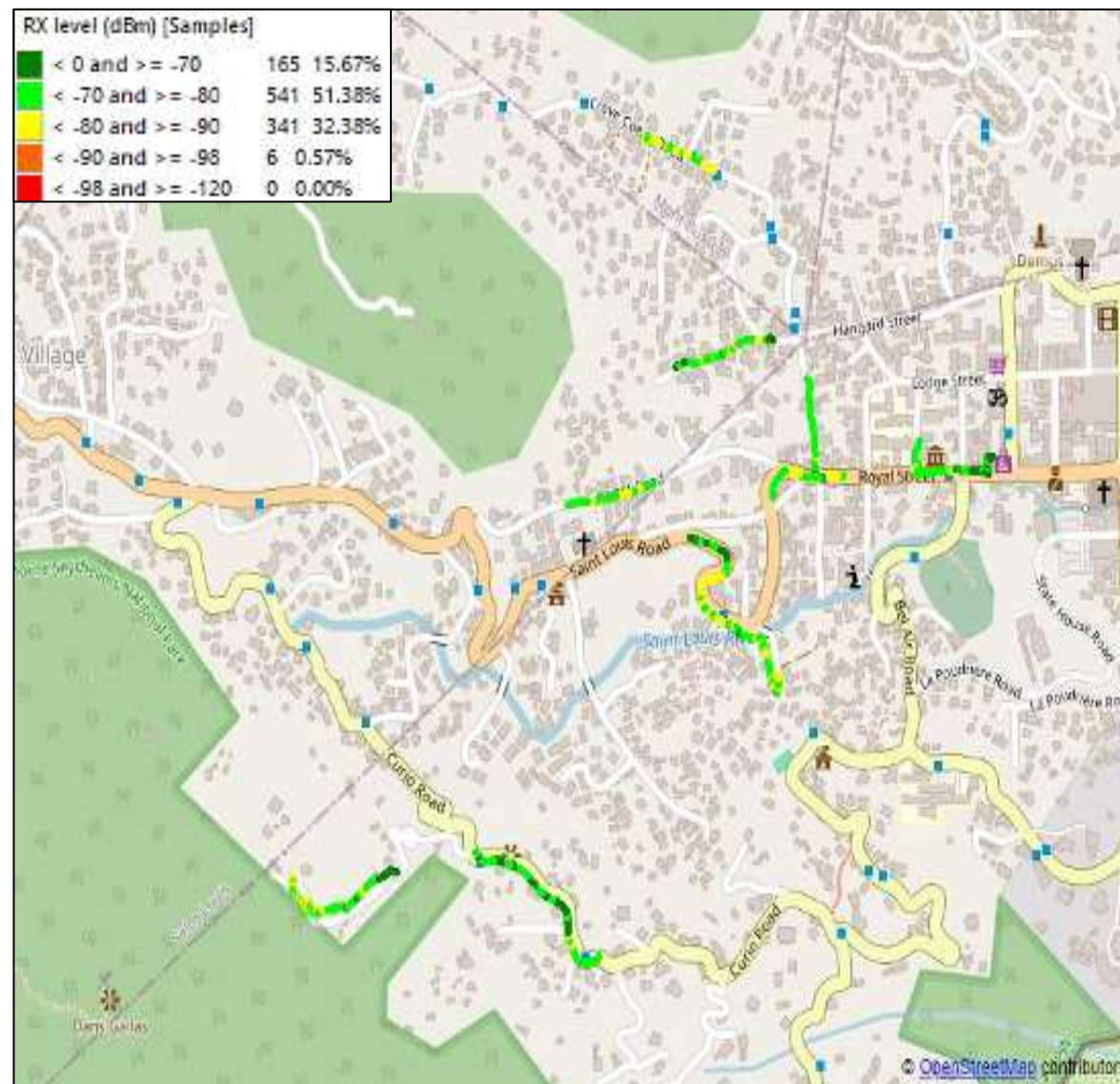
CWS LC MO



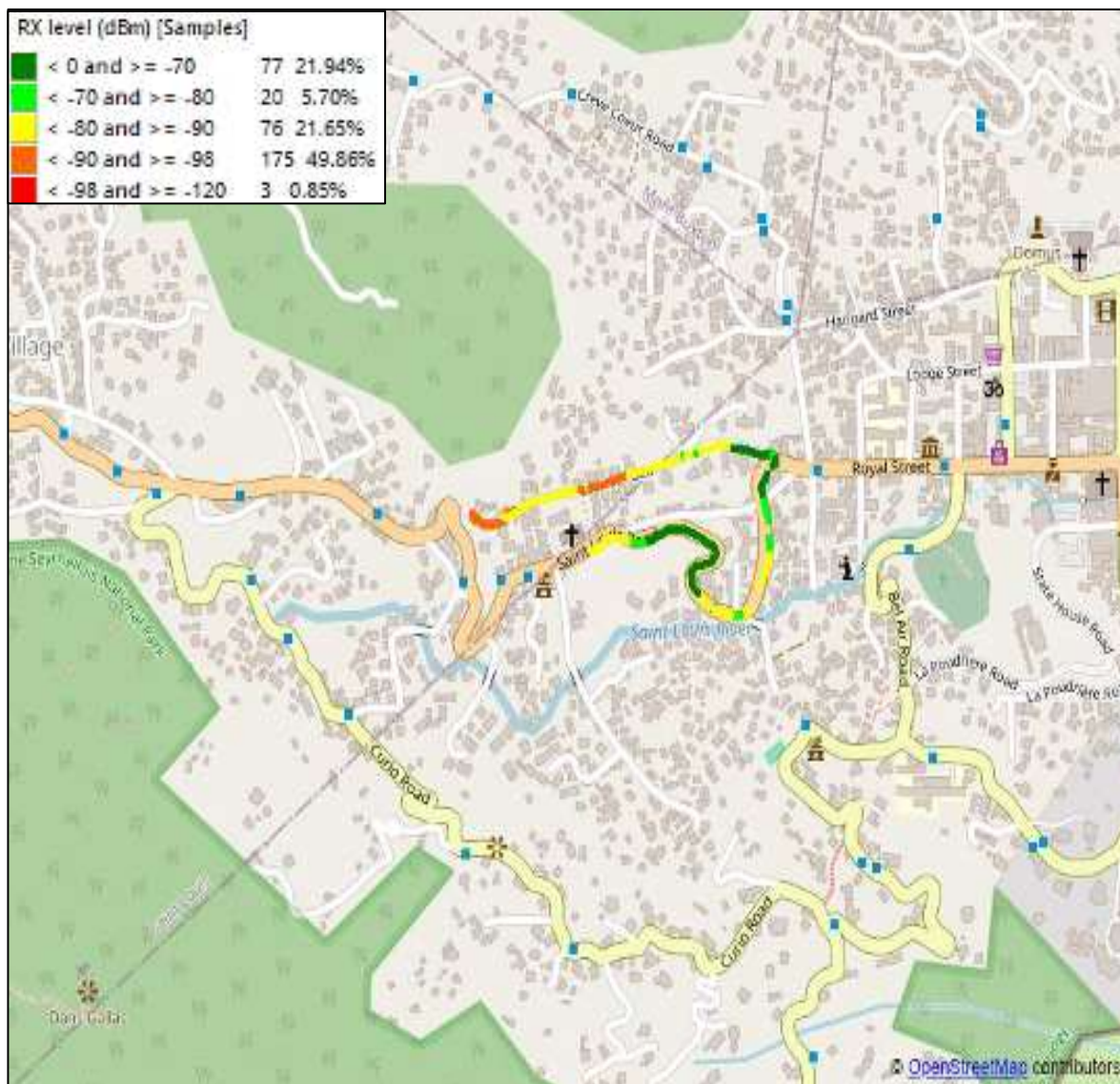
Airtel LC MO



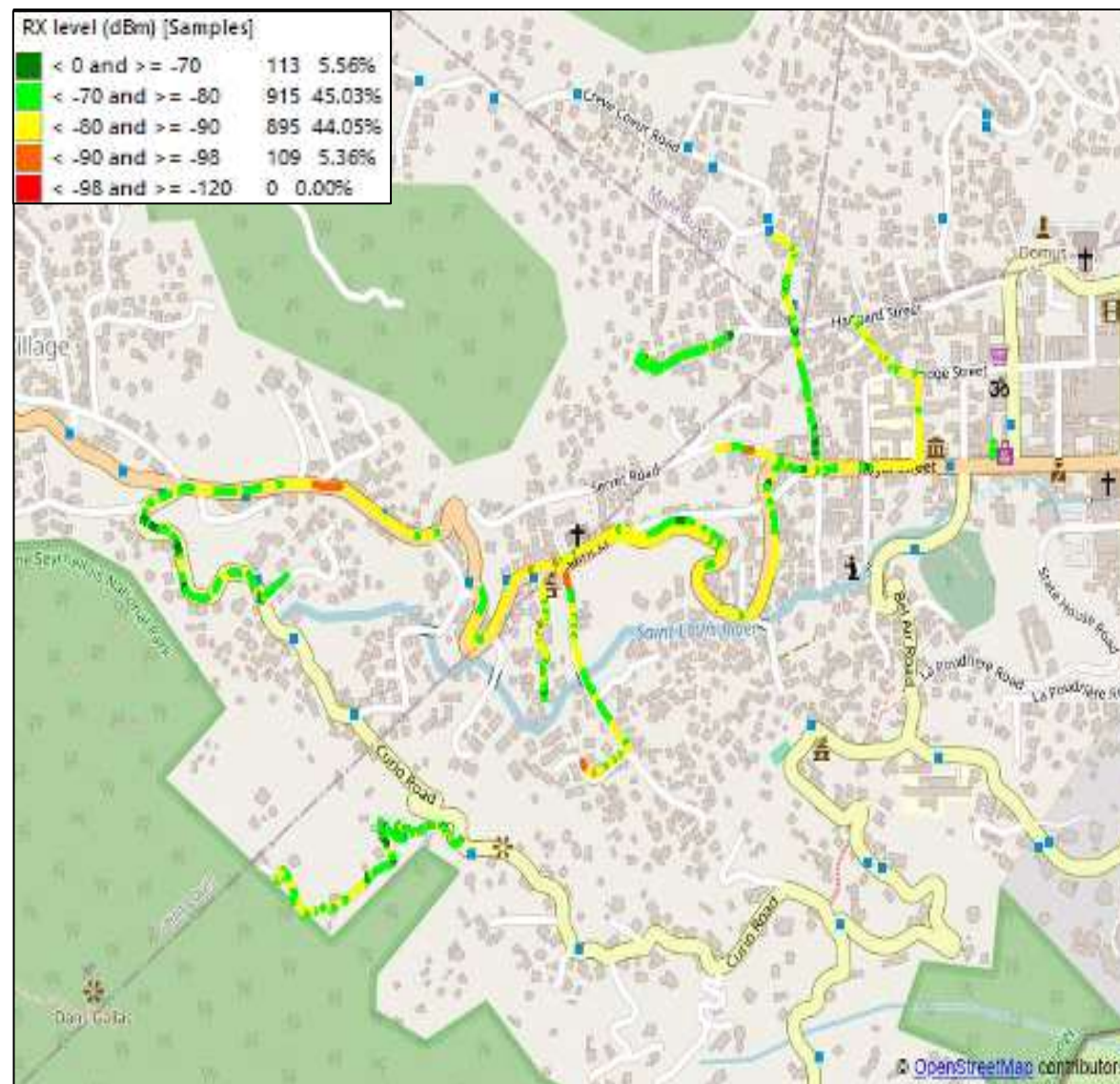
CWS LC MO



Airtel LC MO



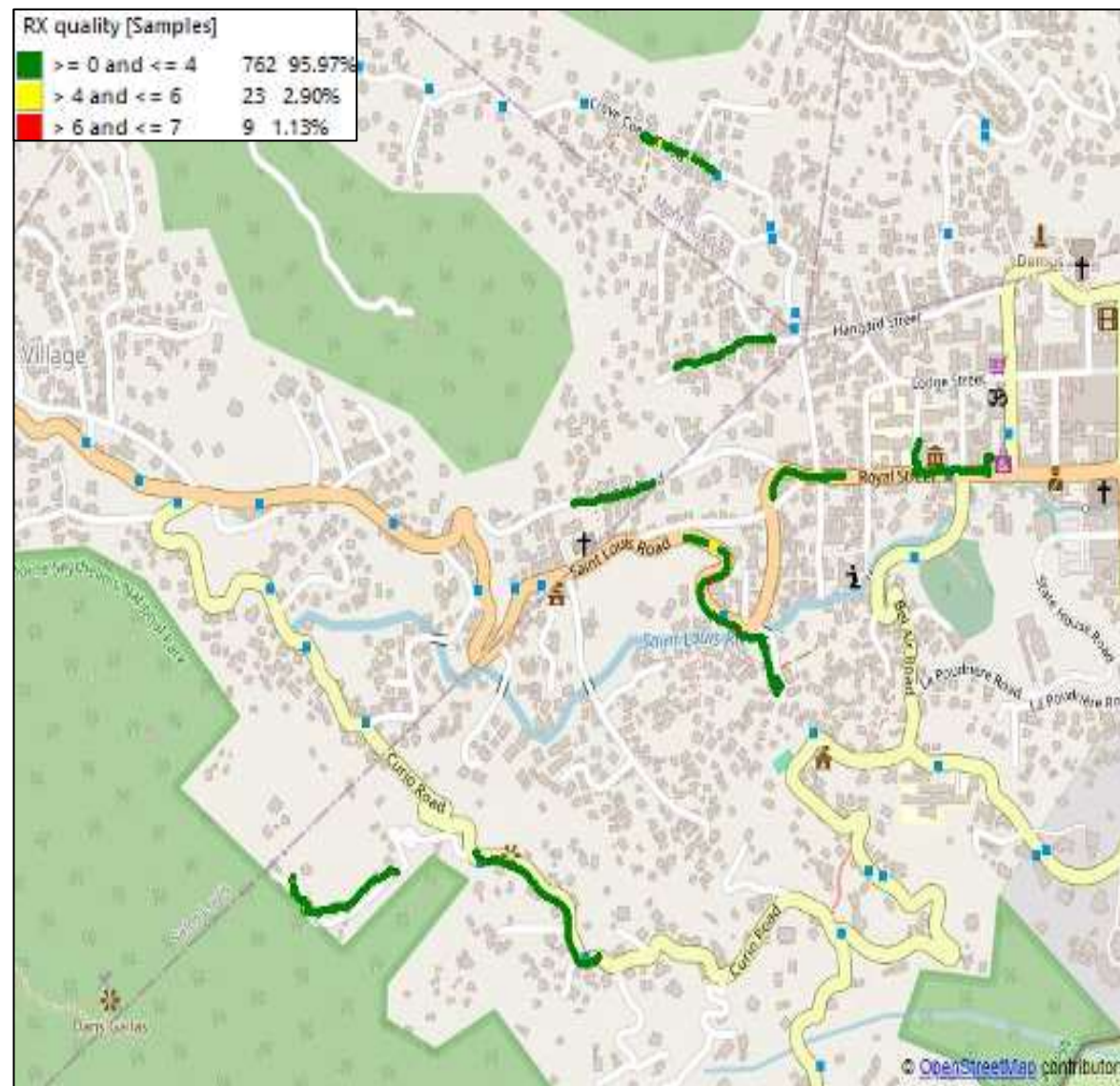
CWS LC MO



Airtel LC MO



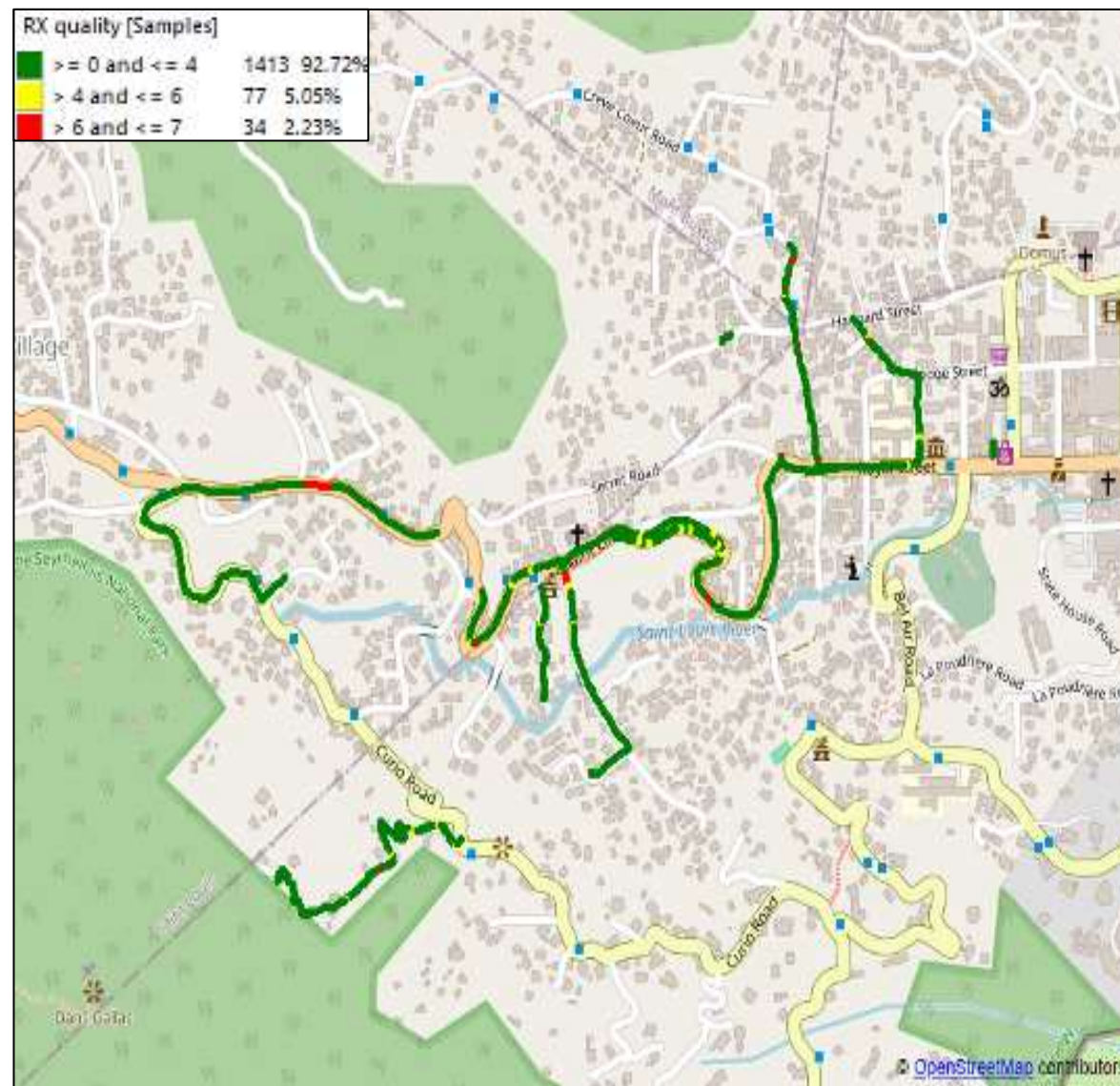
CWS LC MO



Airtel LC MO

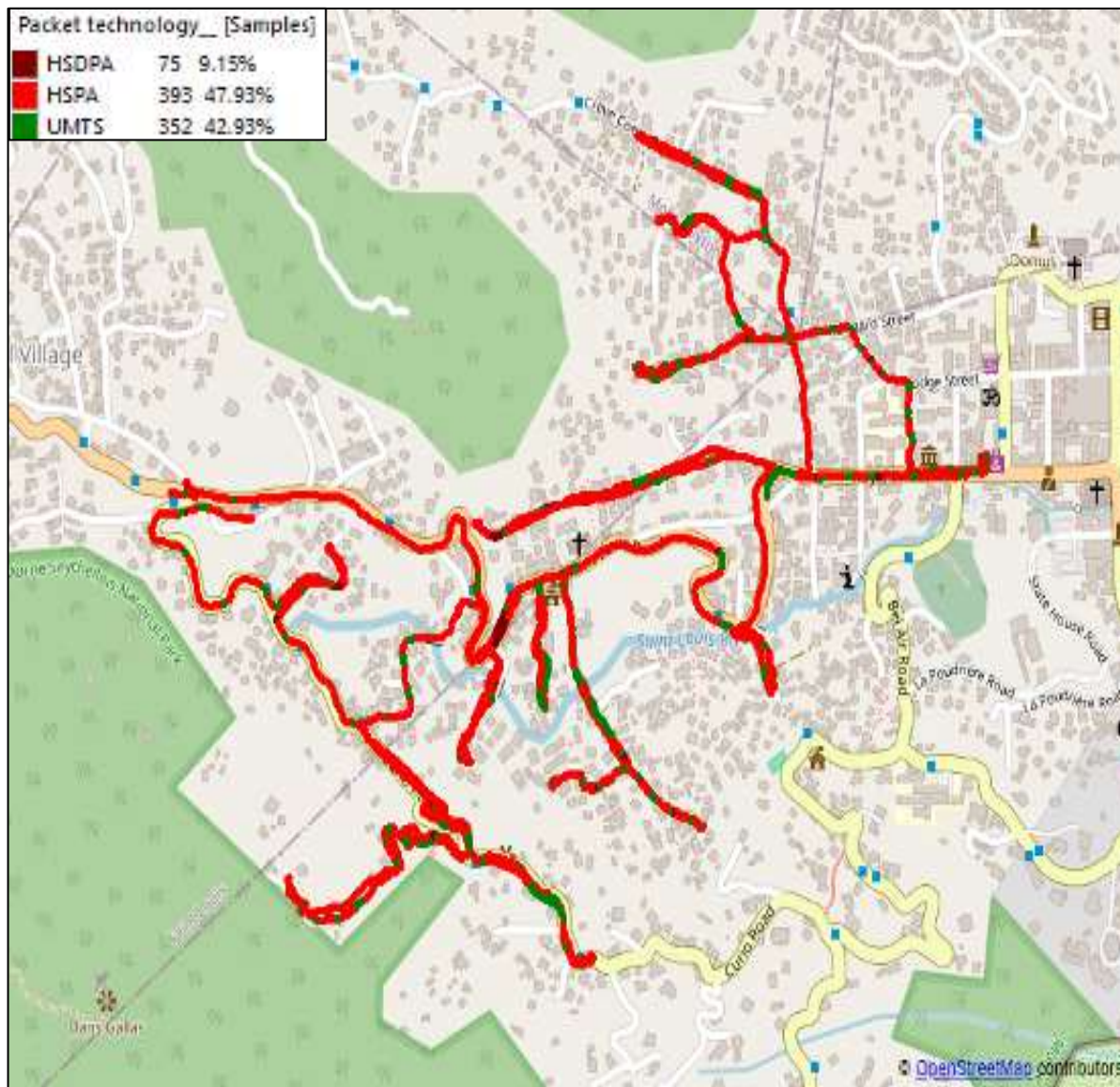


CWS LC MO

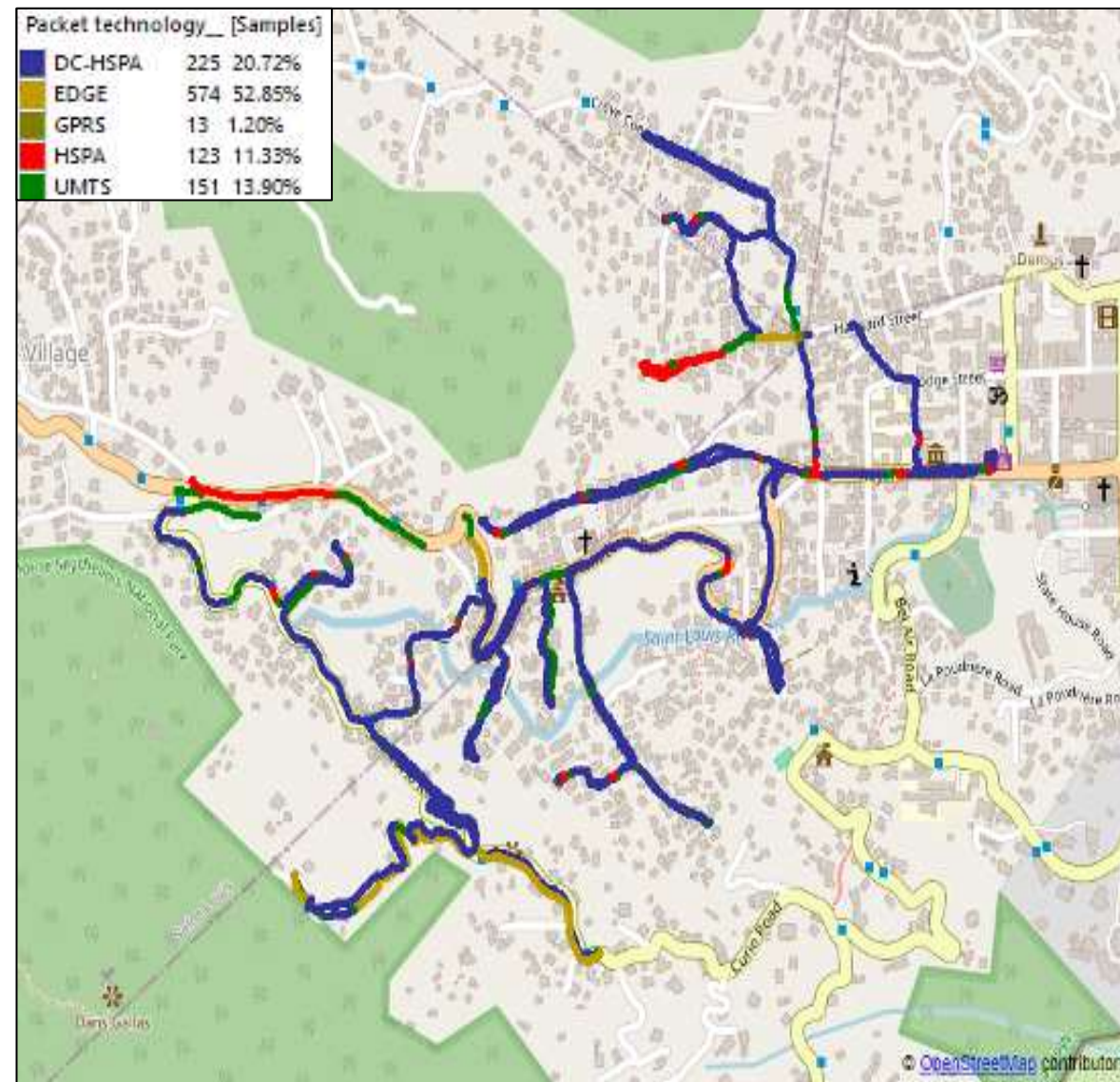


3G PREFERRED DATA DRIVE PLOTS

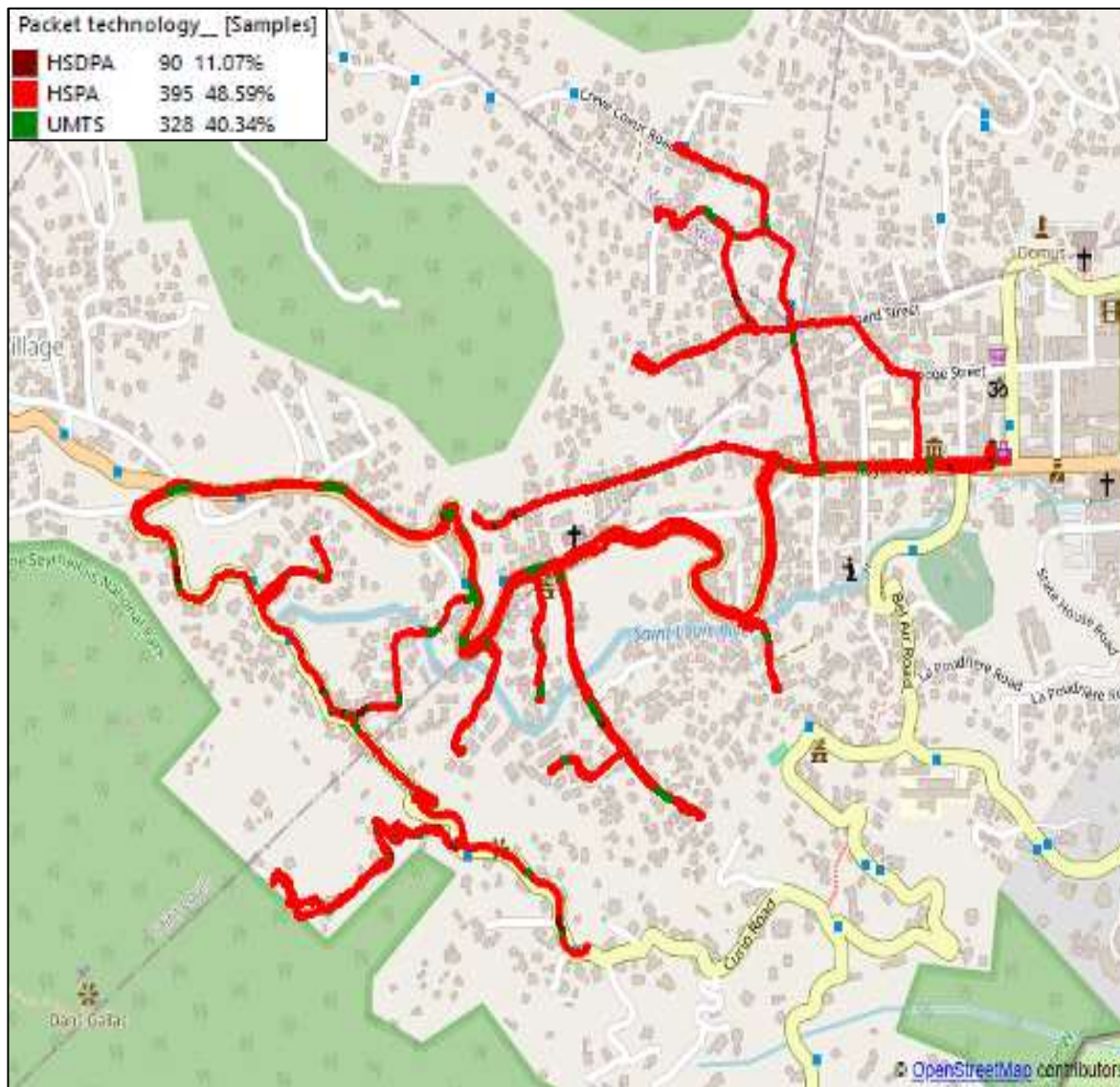
Airtel Data 3G



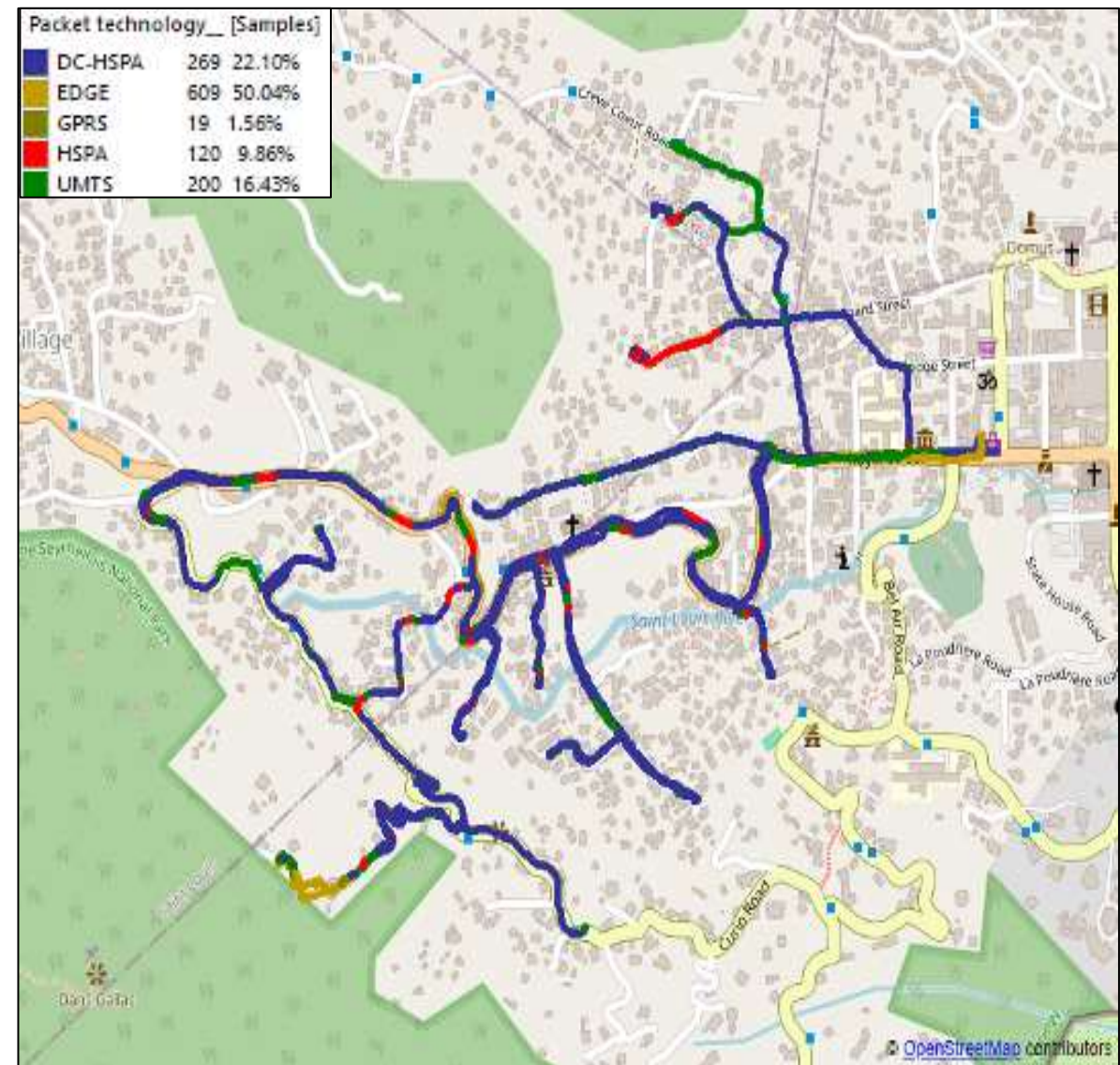
CWS Data 3G



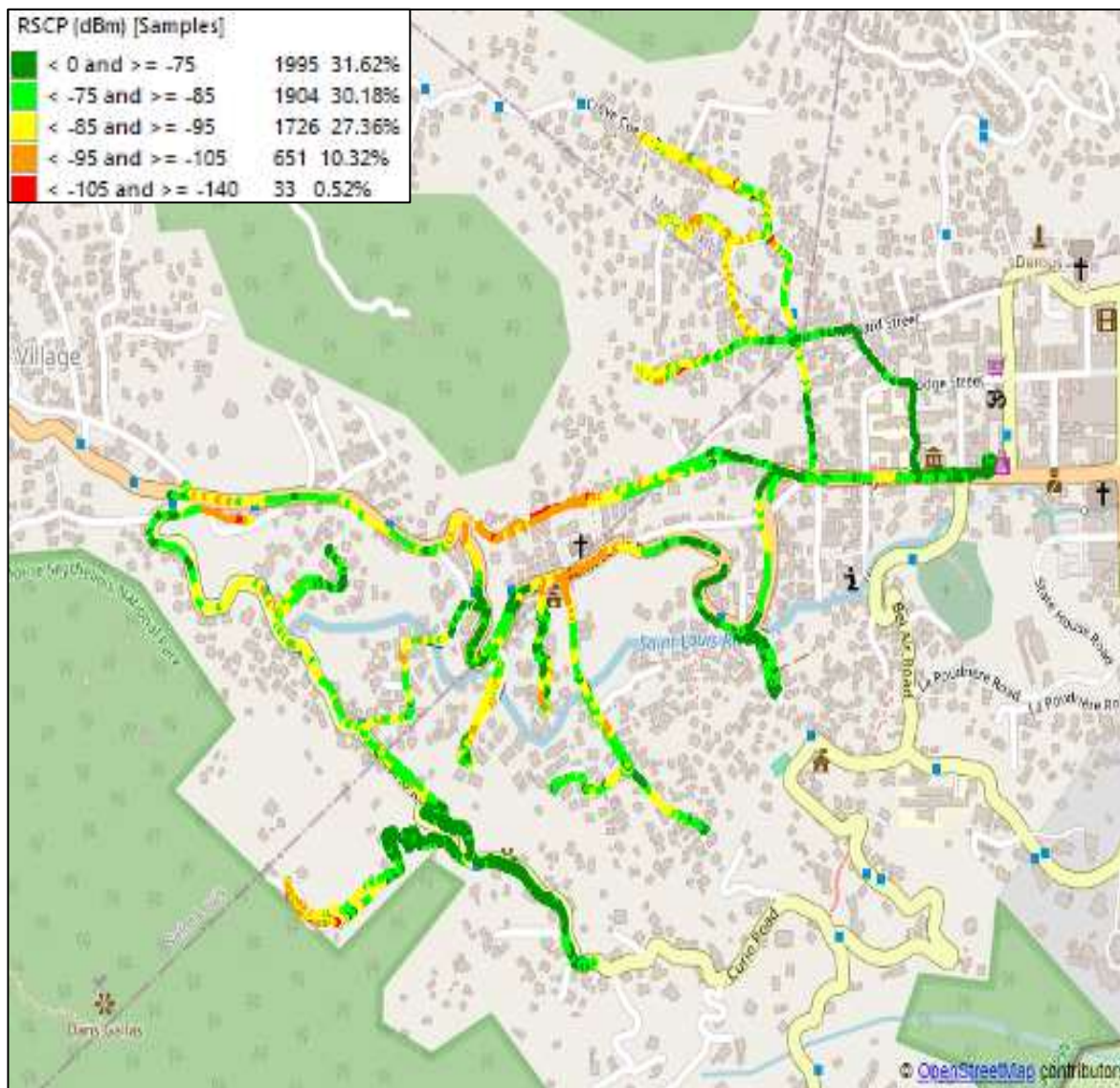
Airtel Data 3G



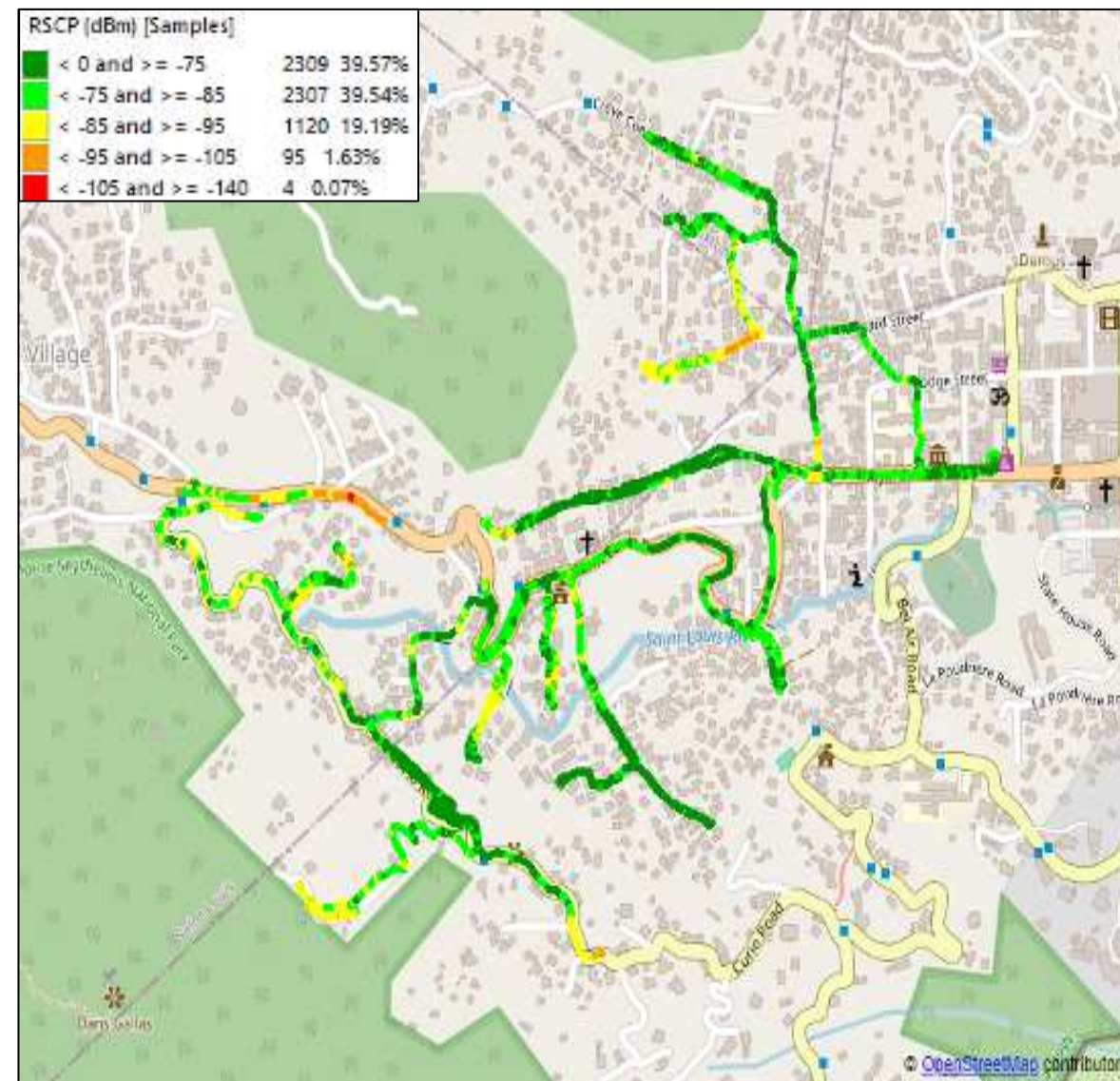
CWS Data 3G



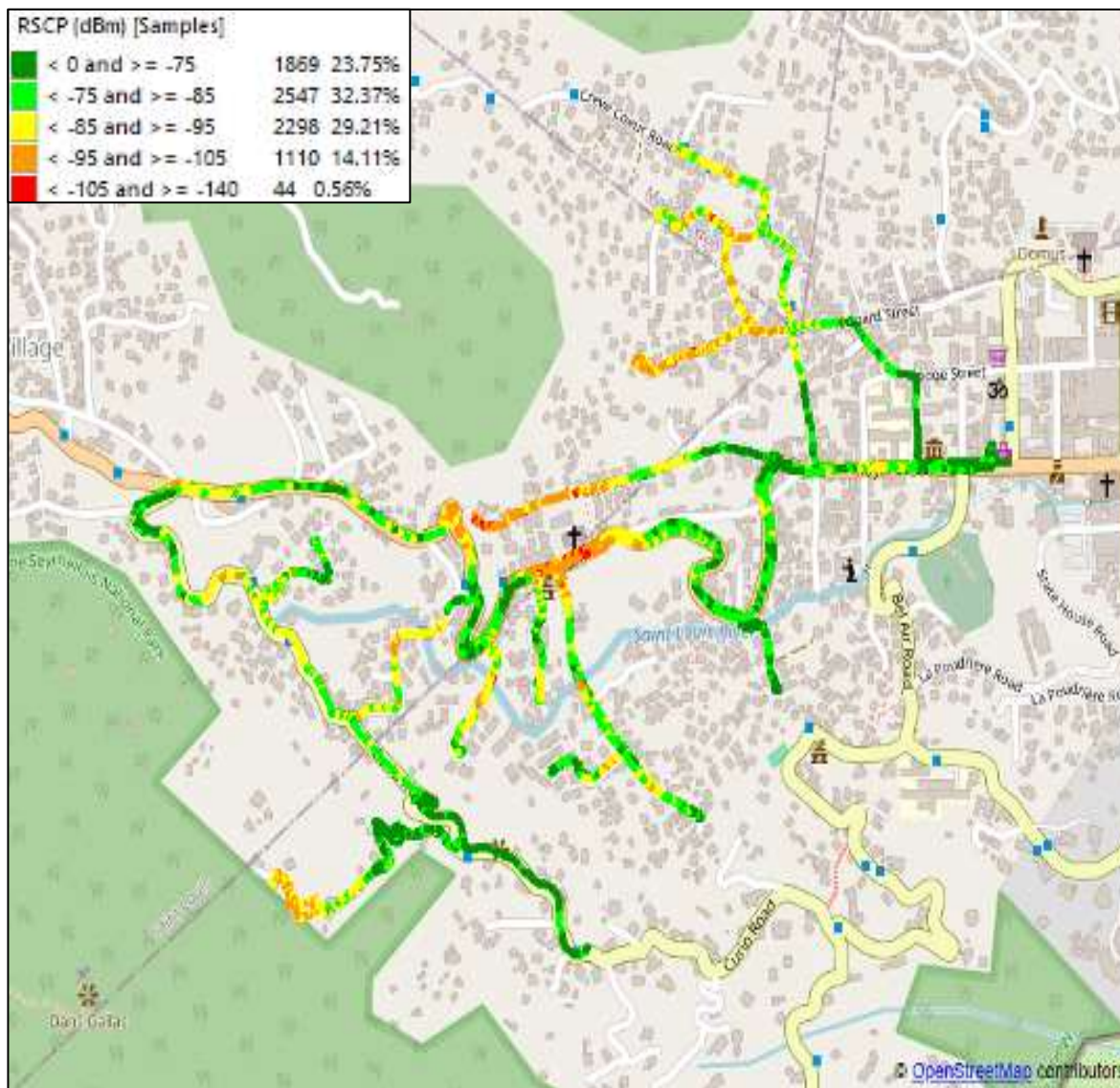
Airtel Data 3G



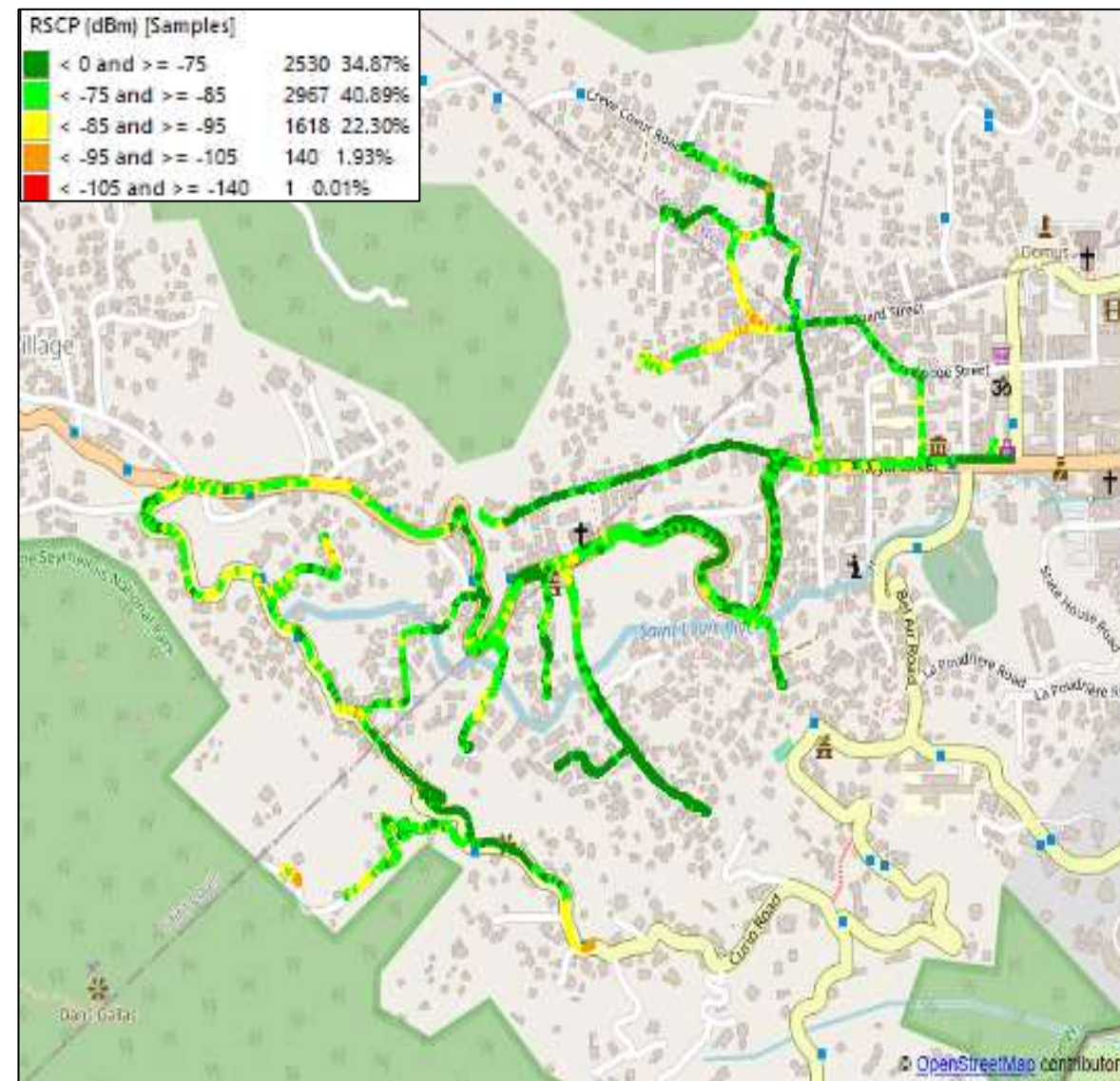
CWS Data 3G



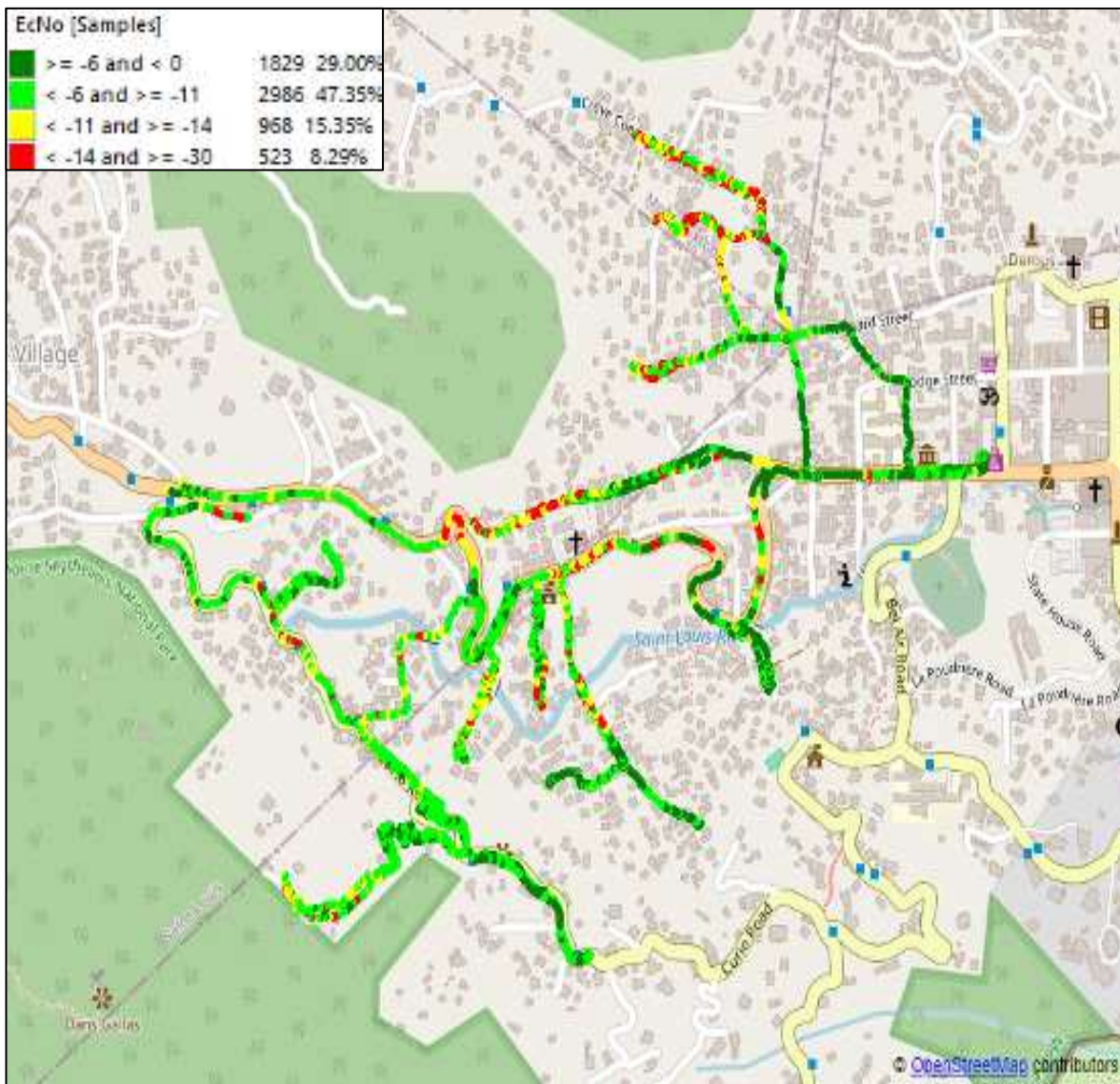
Airtel Data 3G



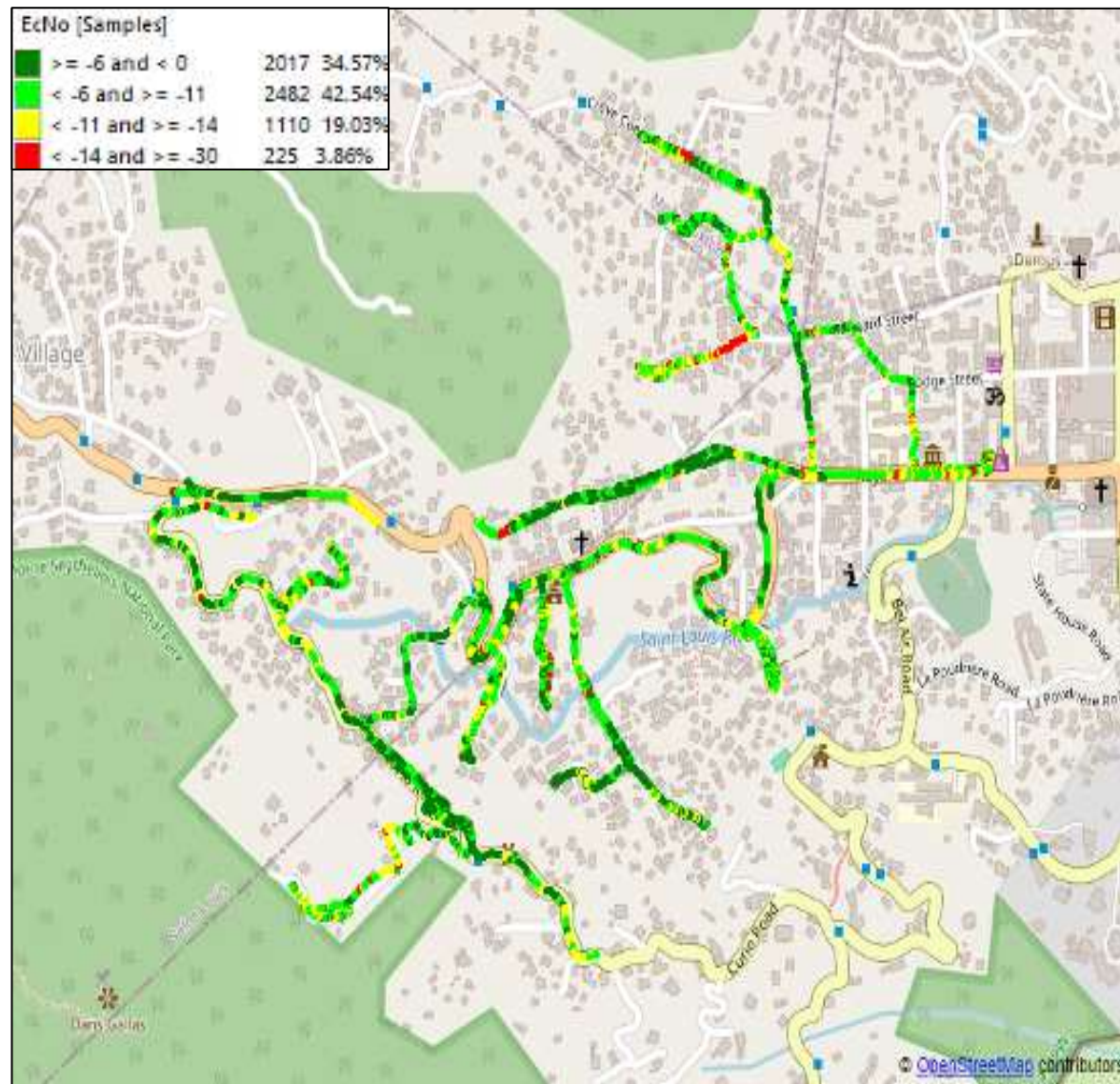
CWS Data 3G



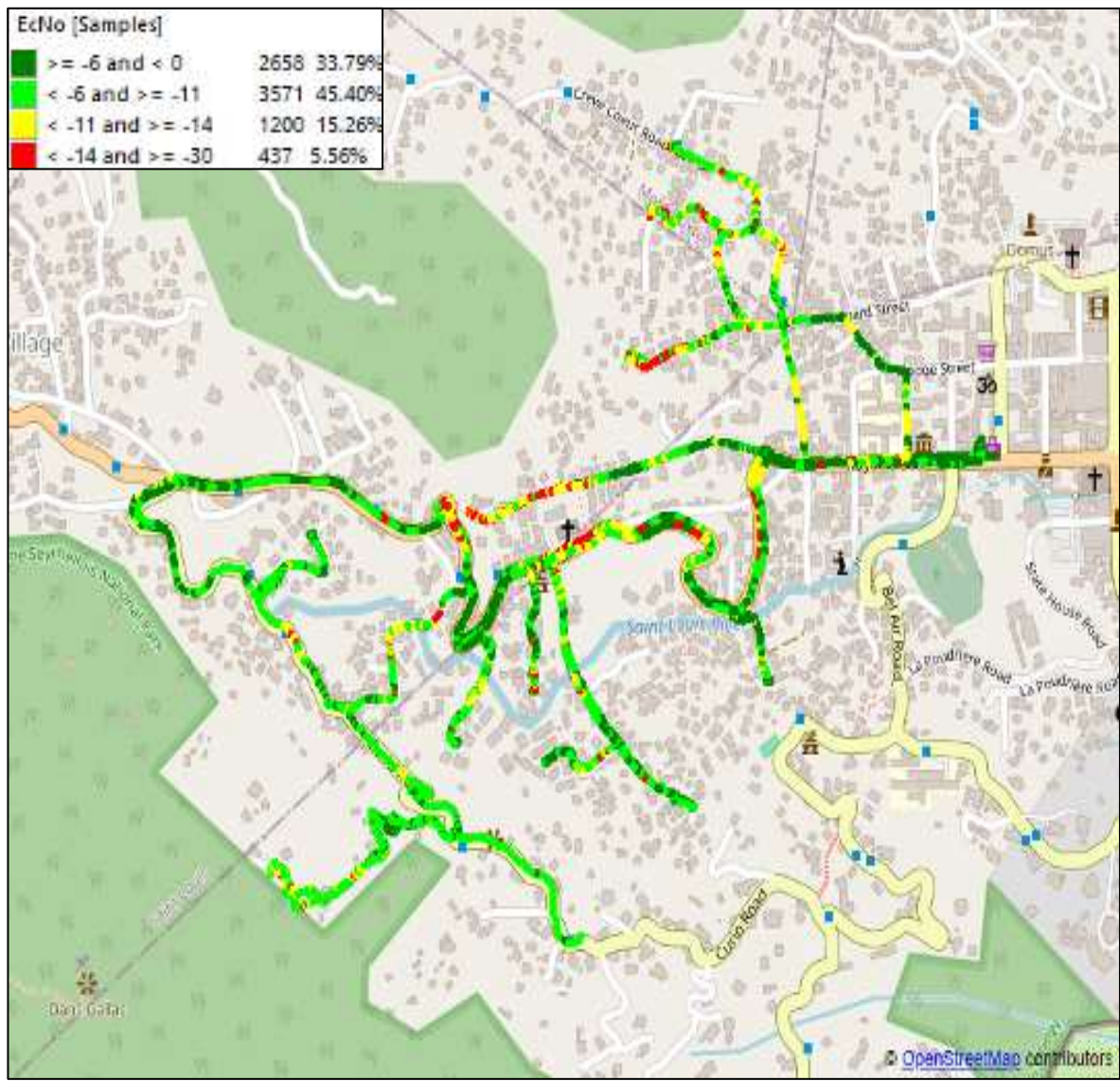
Airtel Data 3G



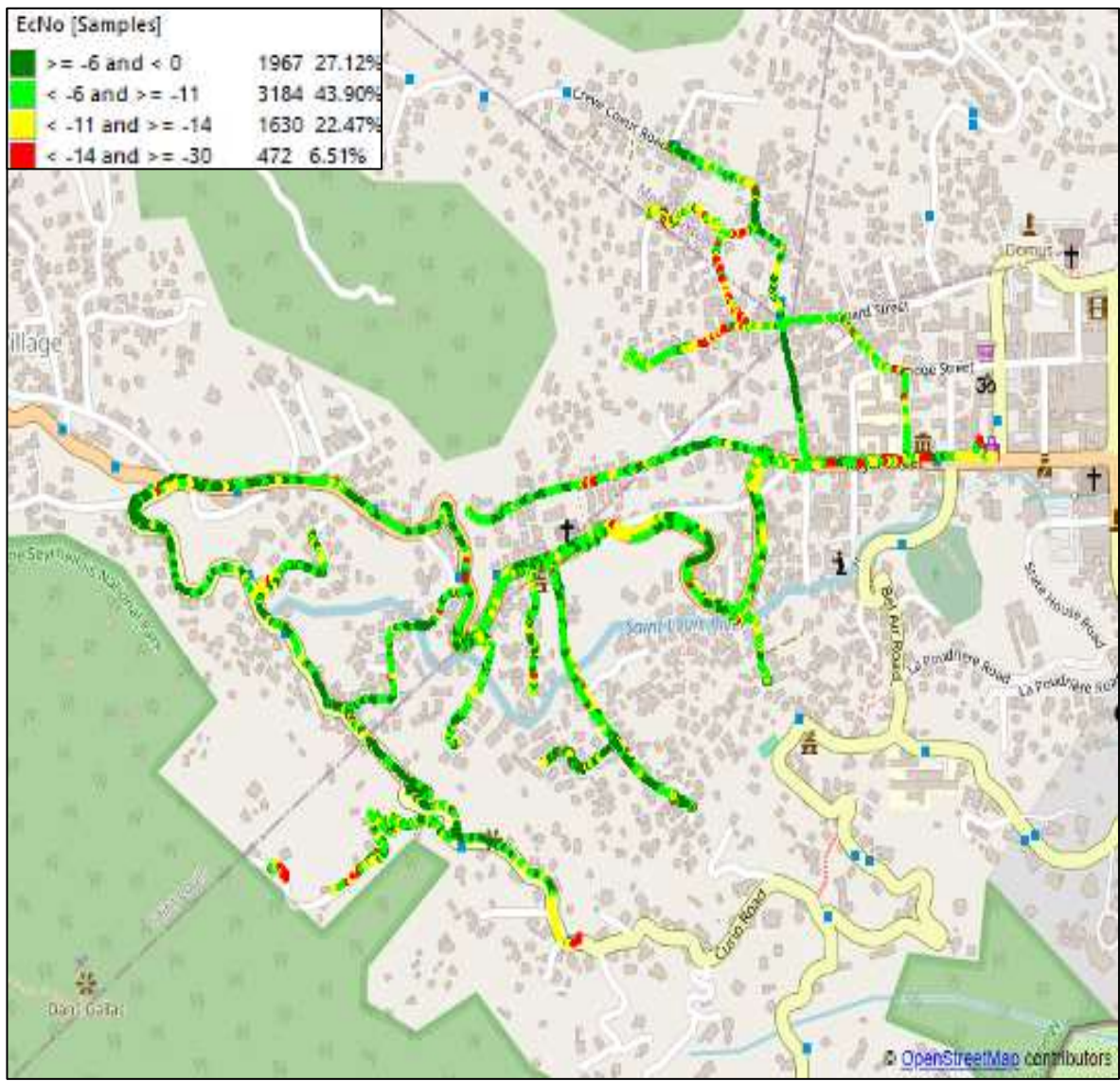
CWS Data 3G



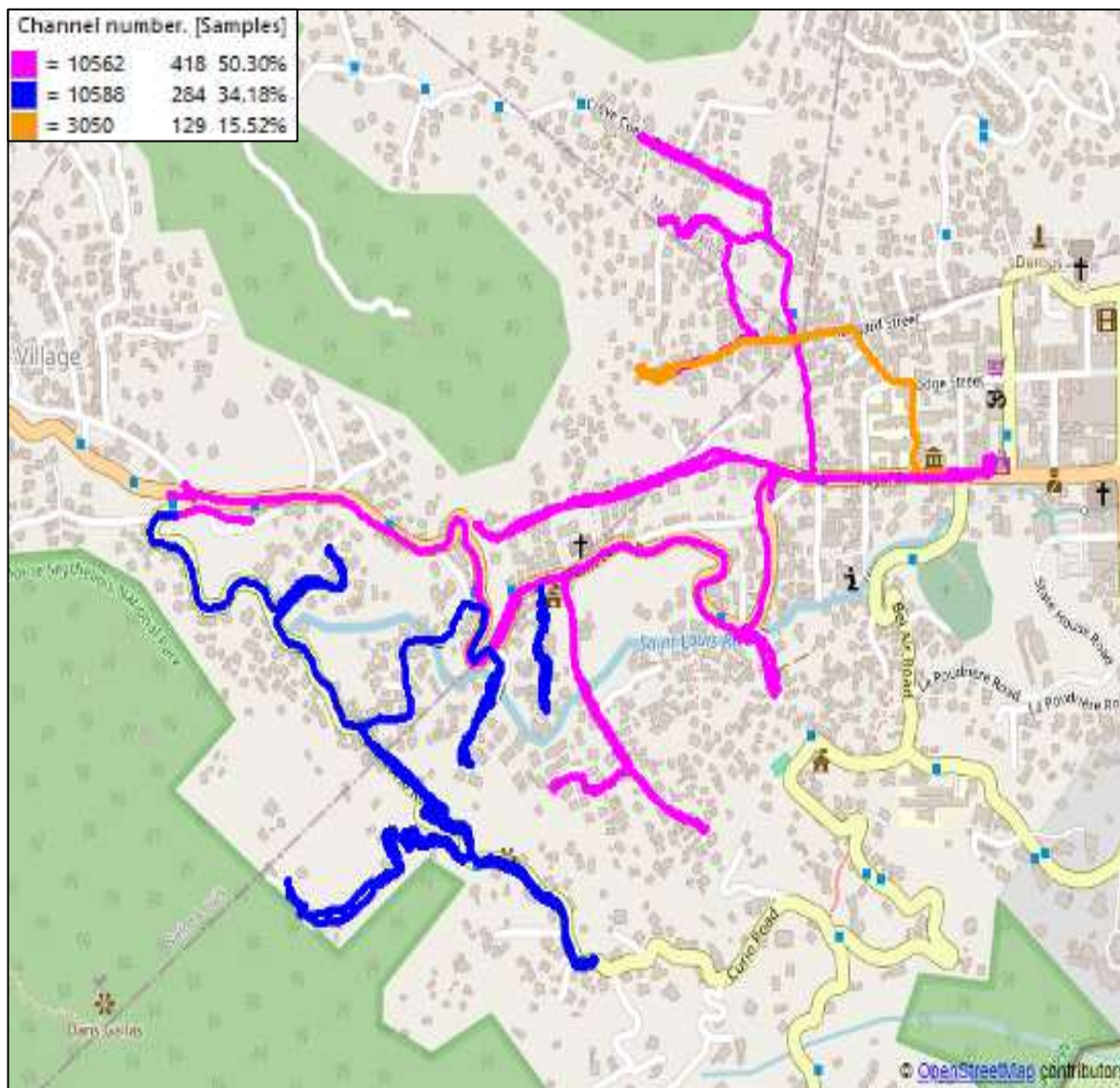
Airtel Data 3G



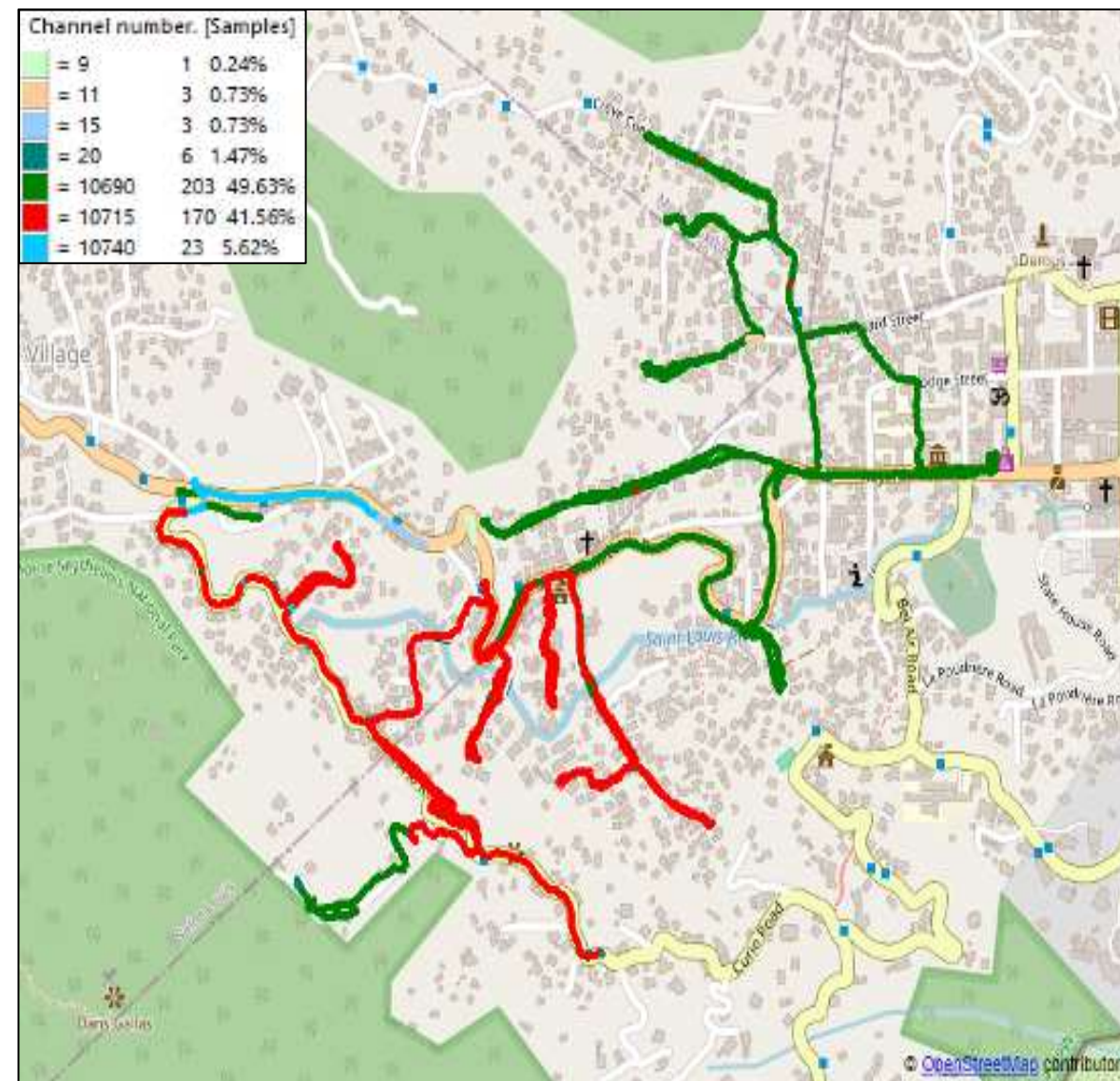
CWS Data 3G



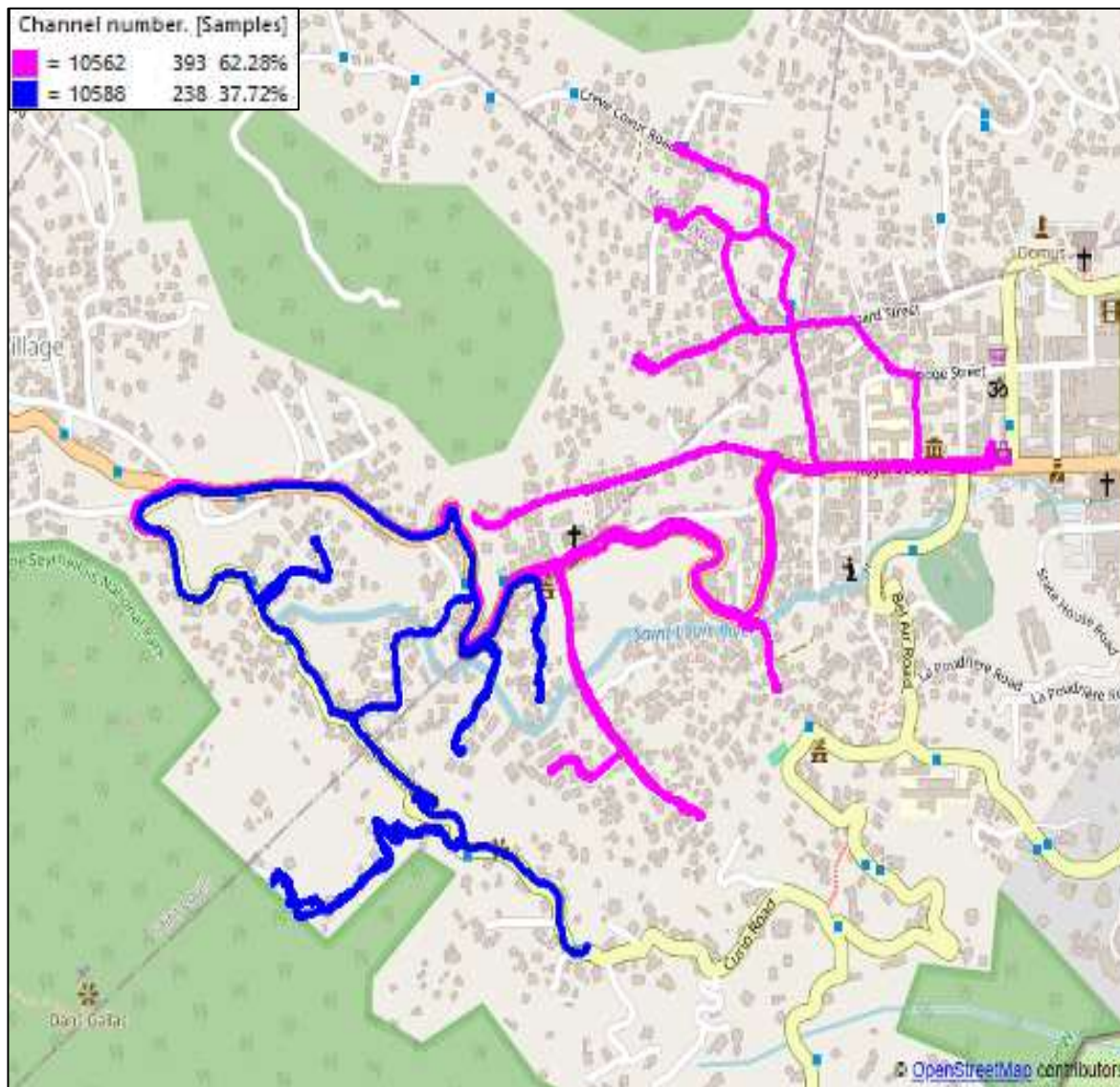
Airtel Data 3G



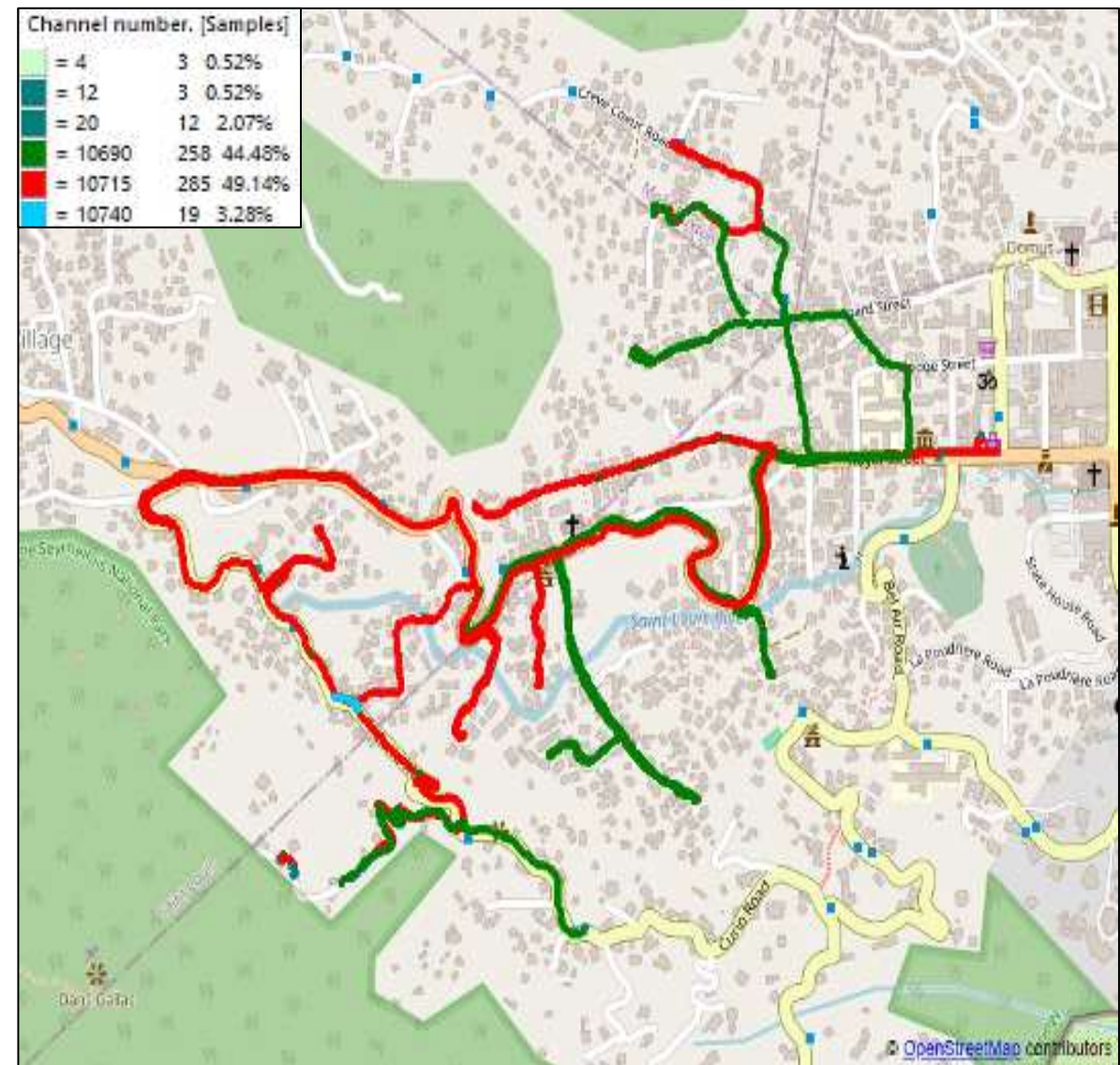
CWS Data 3G



Airtel Data 3G

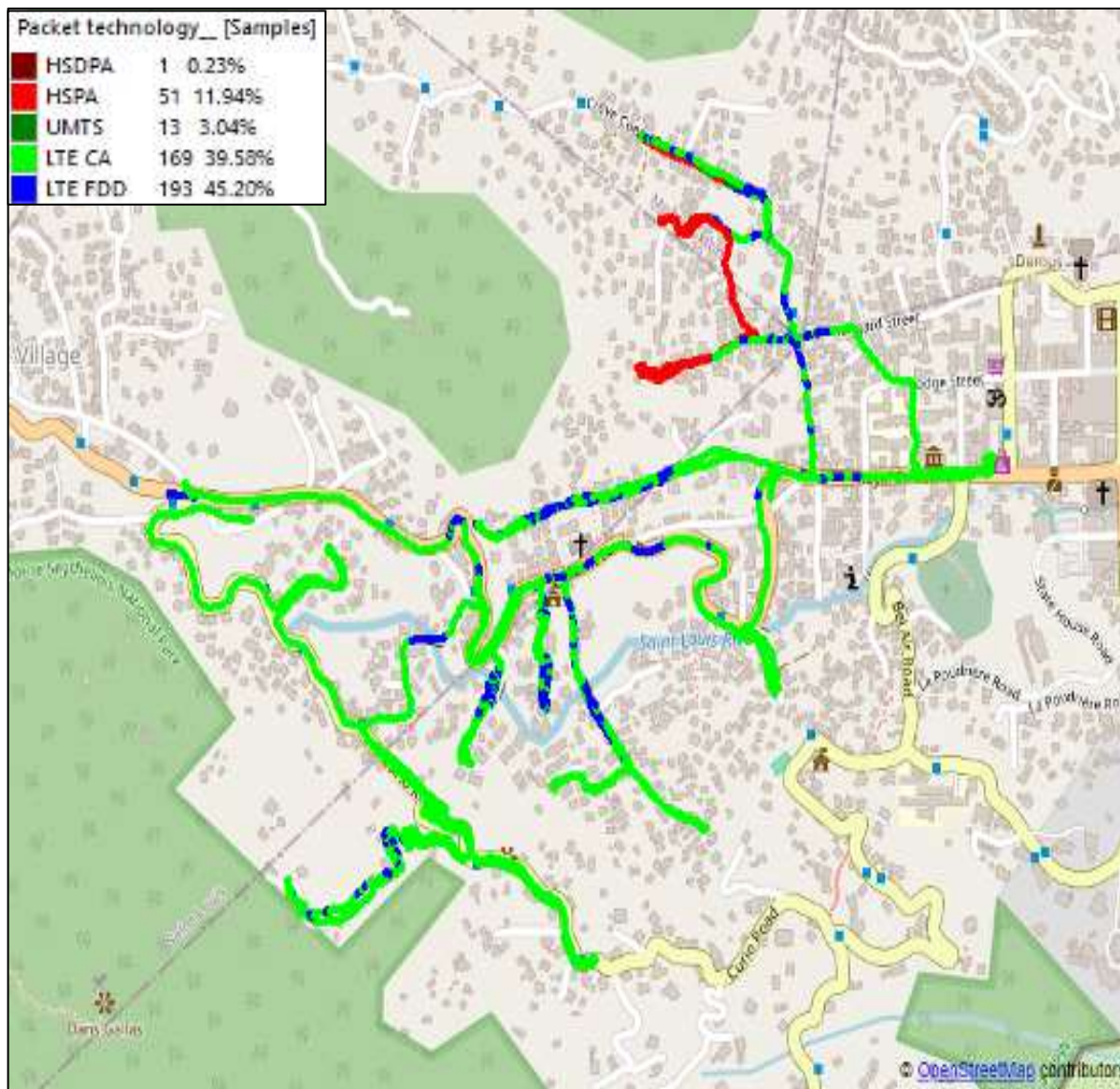


CWS Data 3G

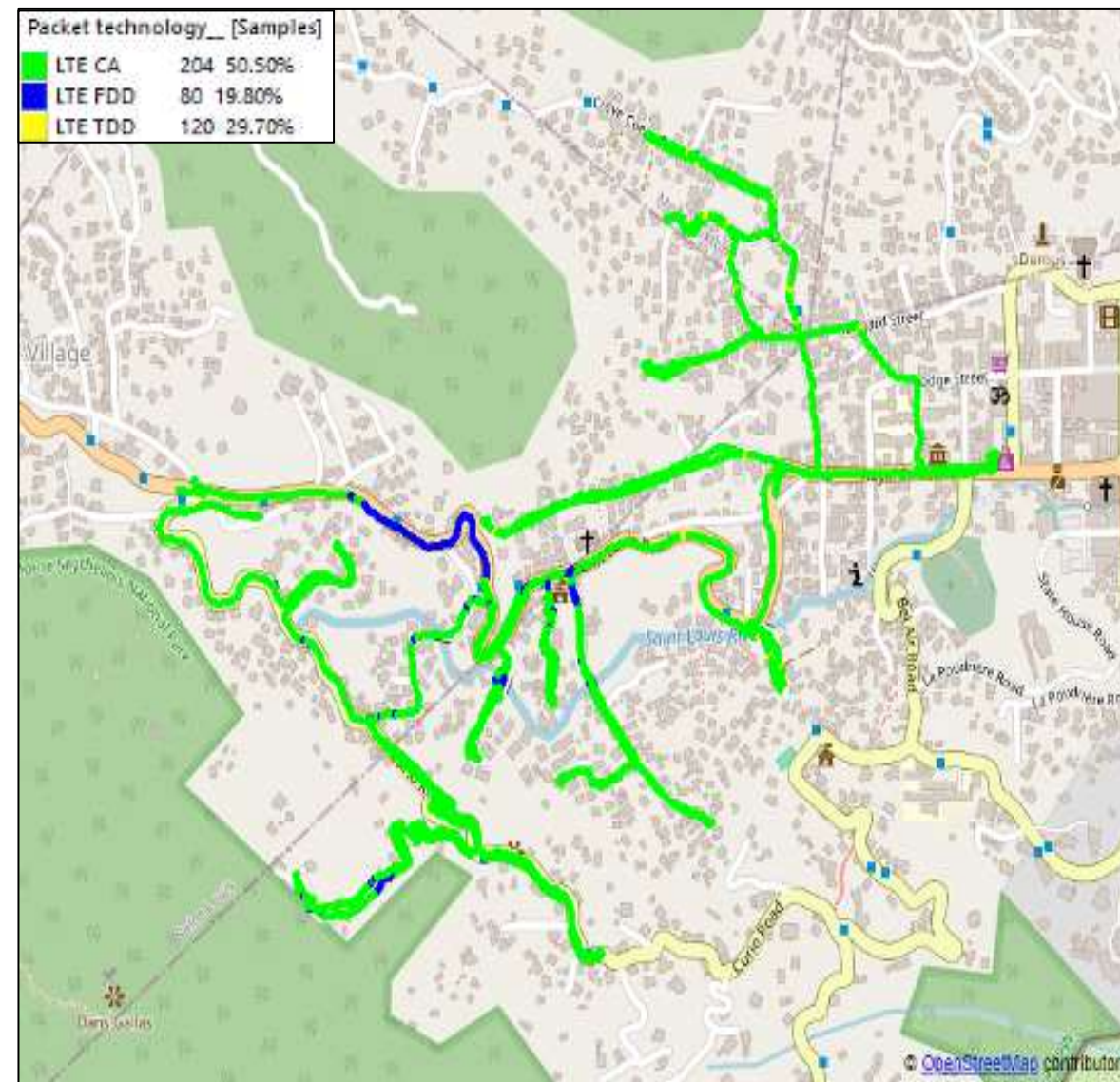


4G PREFERRED DATA DRIVE PLOTS

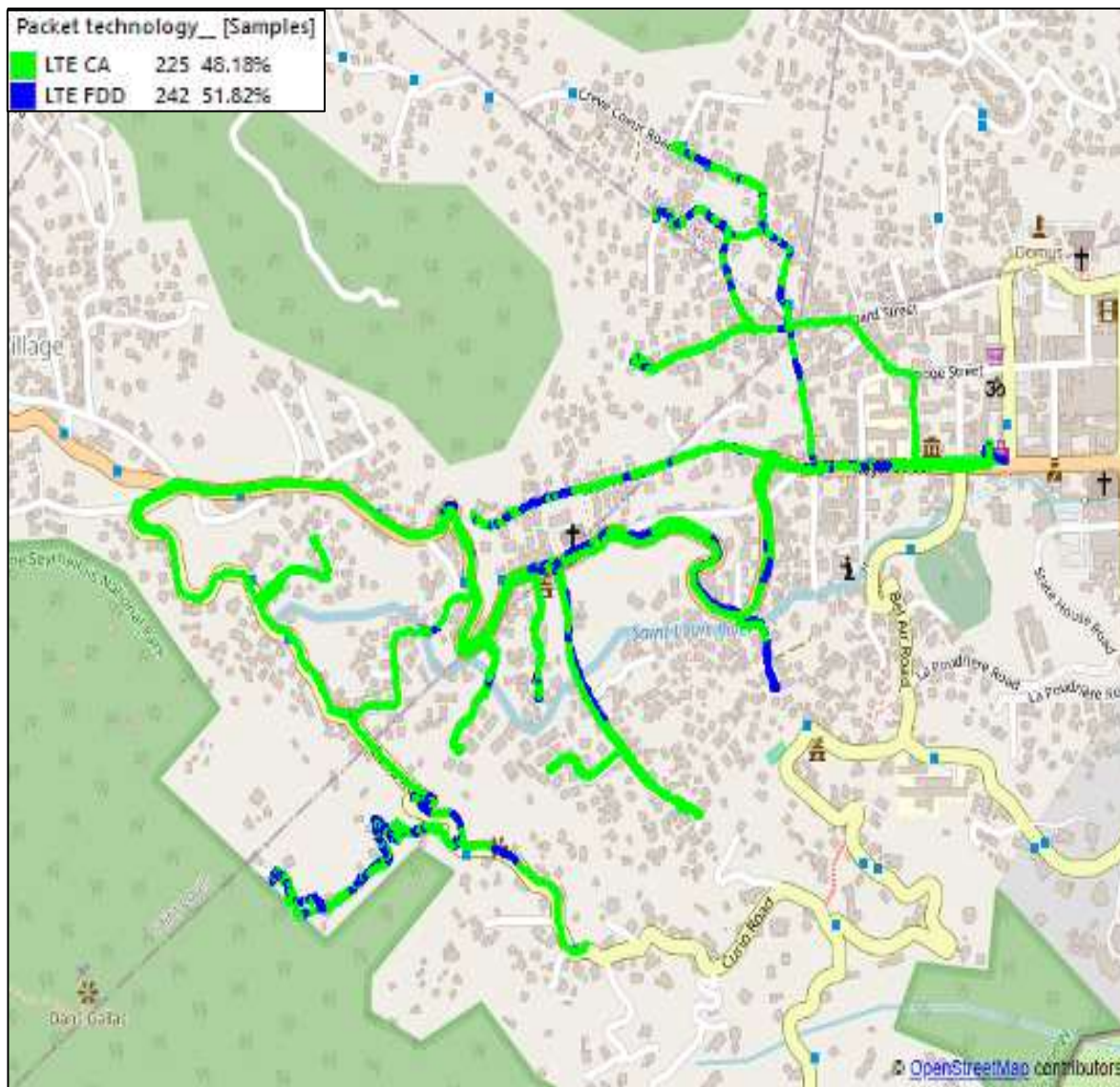
Airtel Data 4G



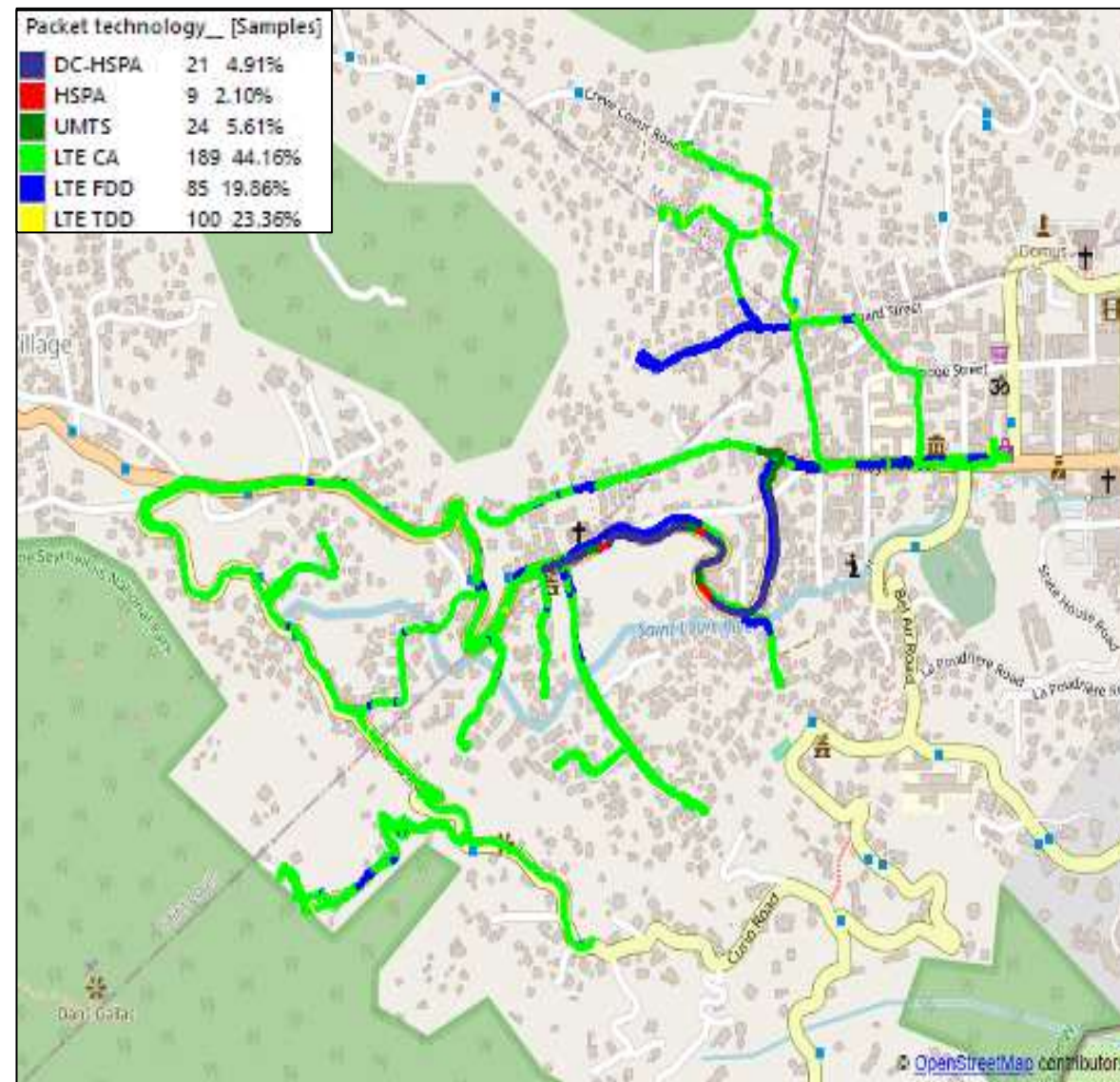
CWS Data 4G



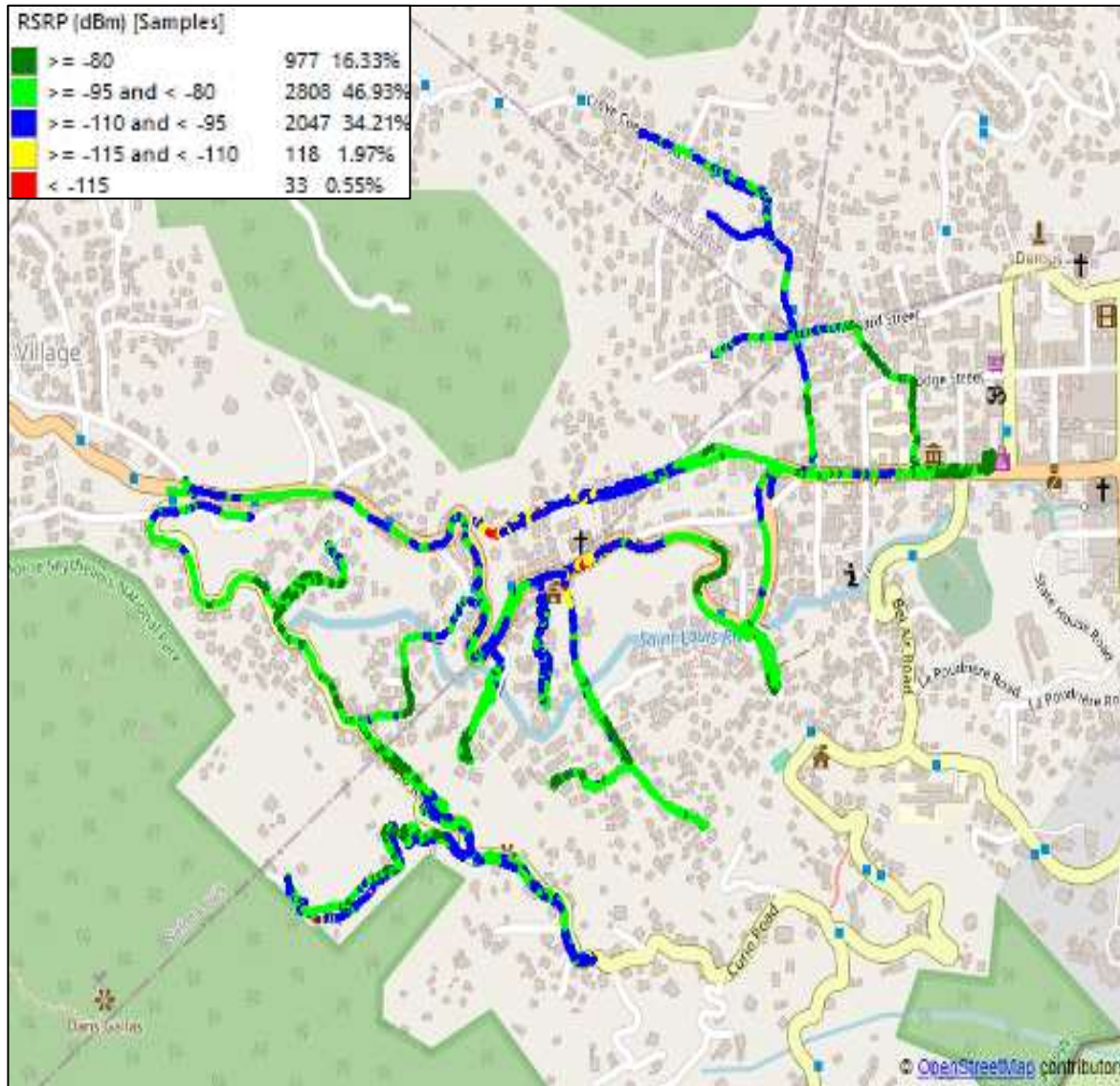
Airtel Data 4G



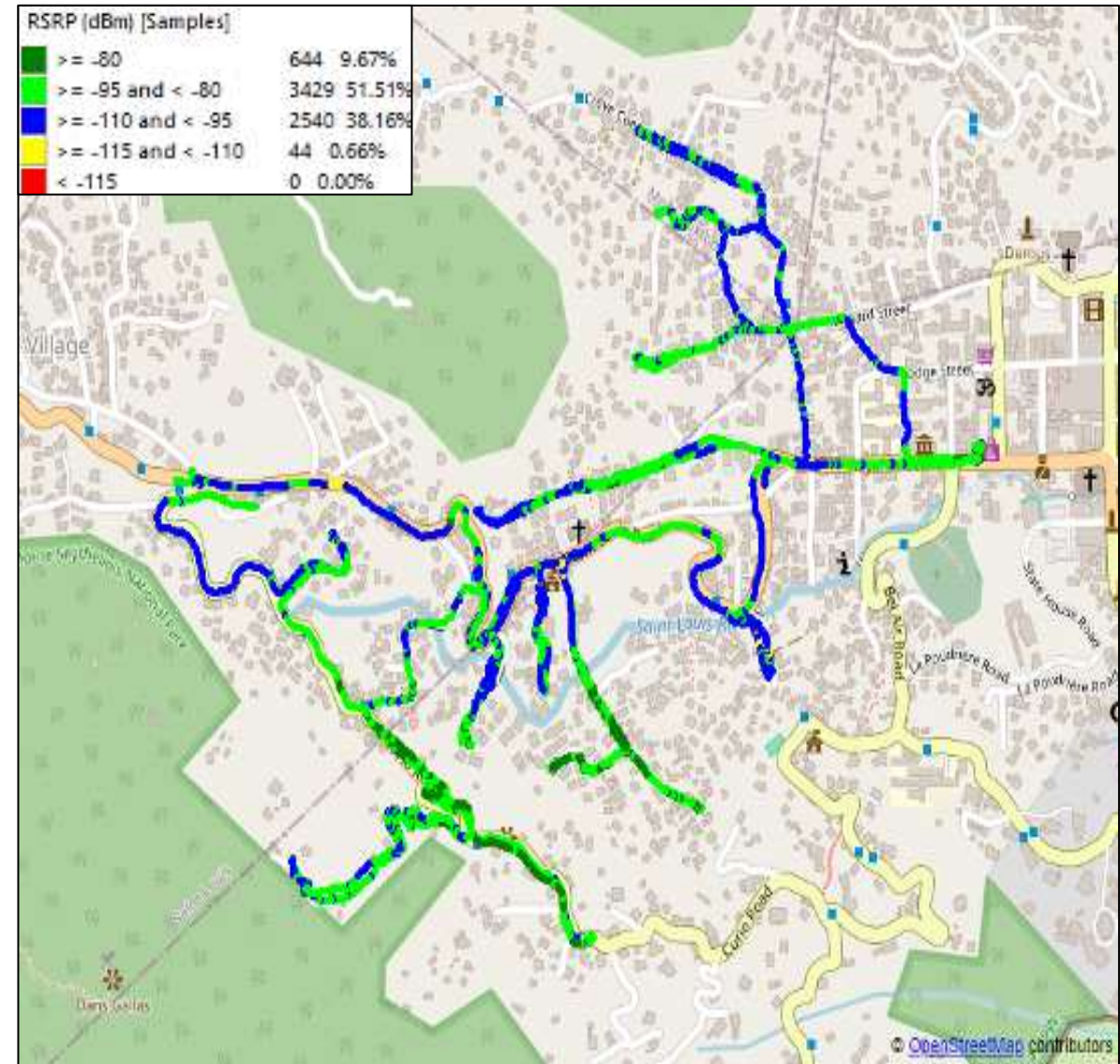
CWS Data 4G



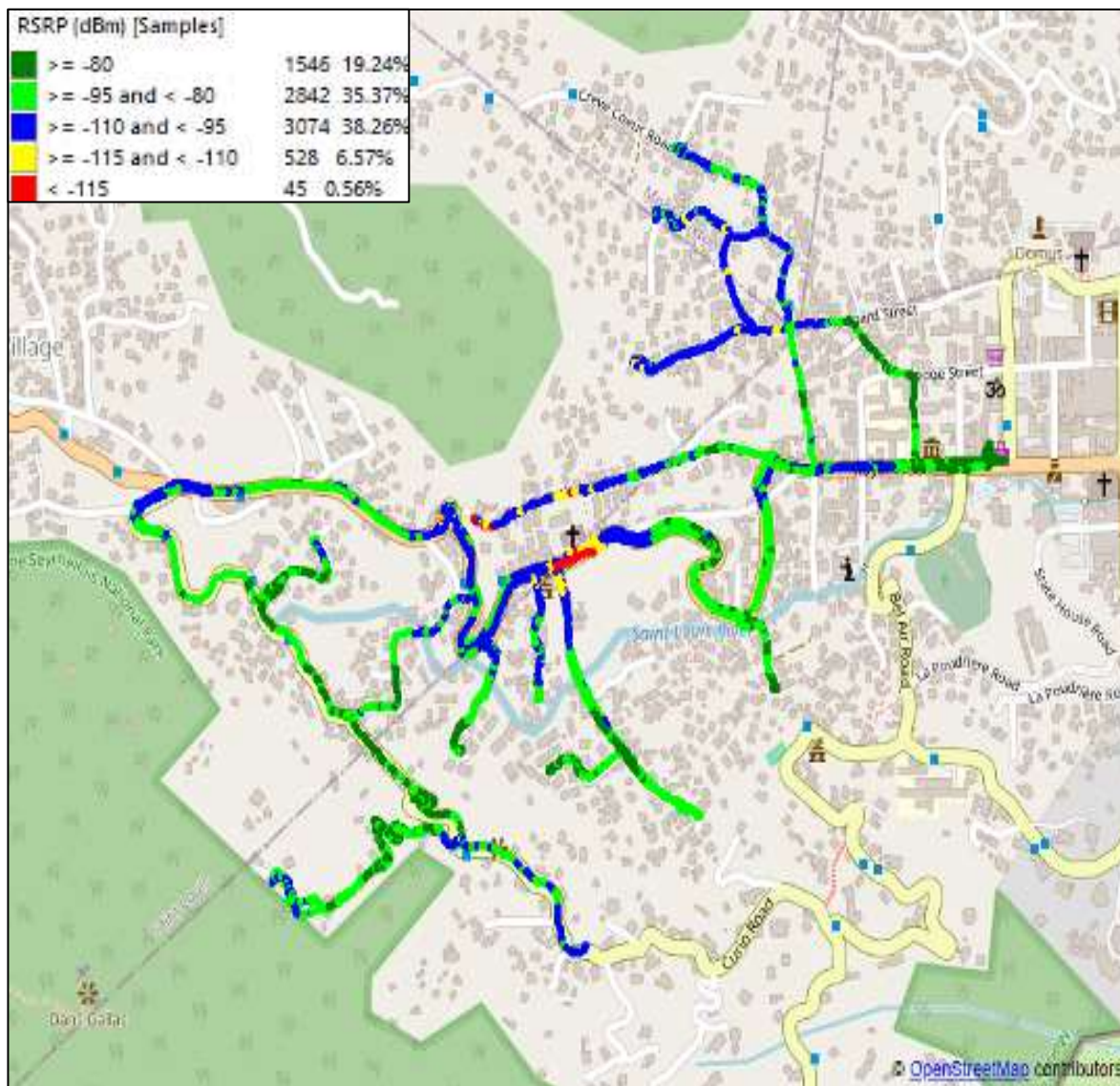
Airtel Data 4G



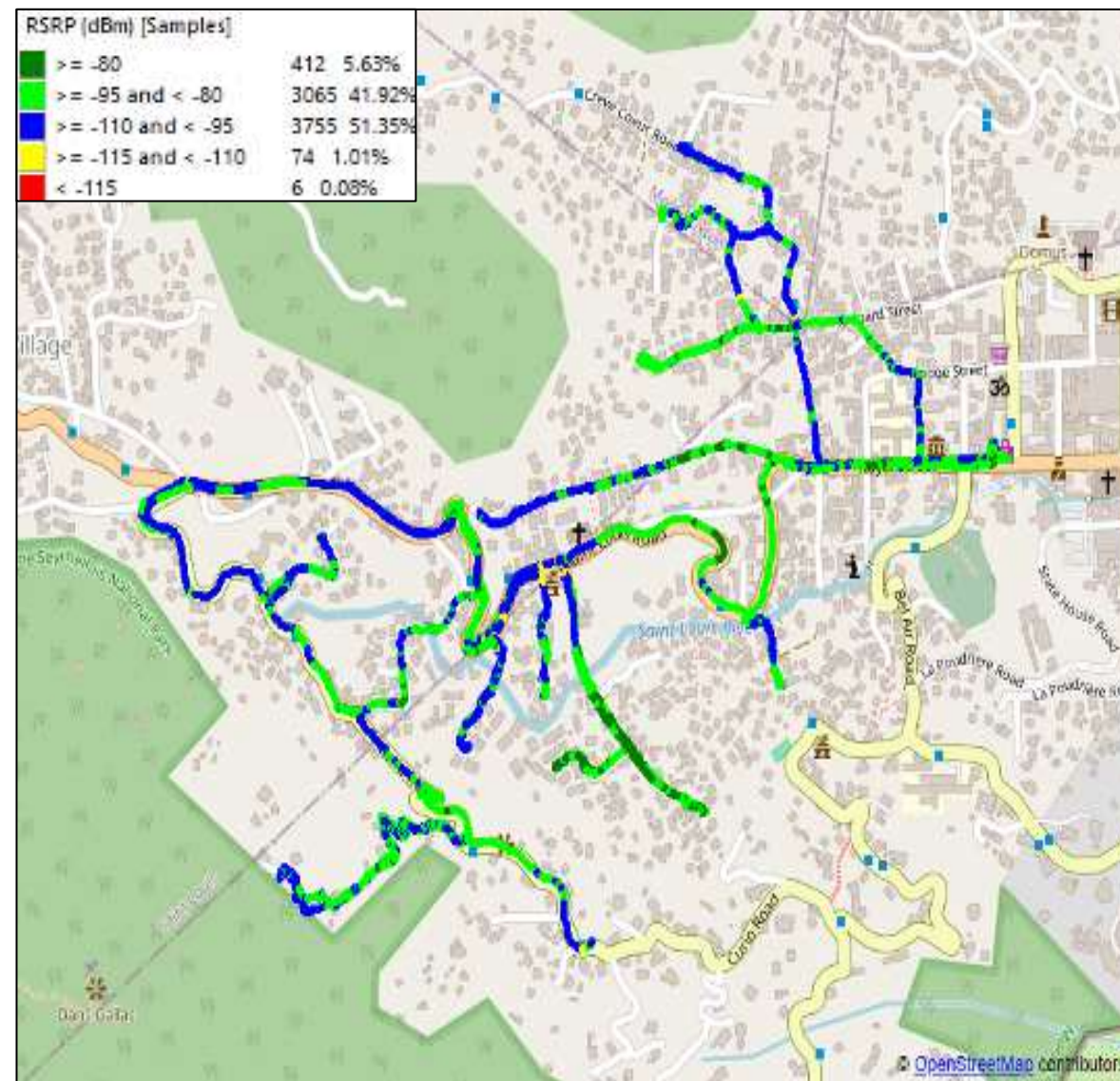
CWS Data 4G



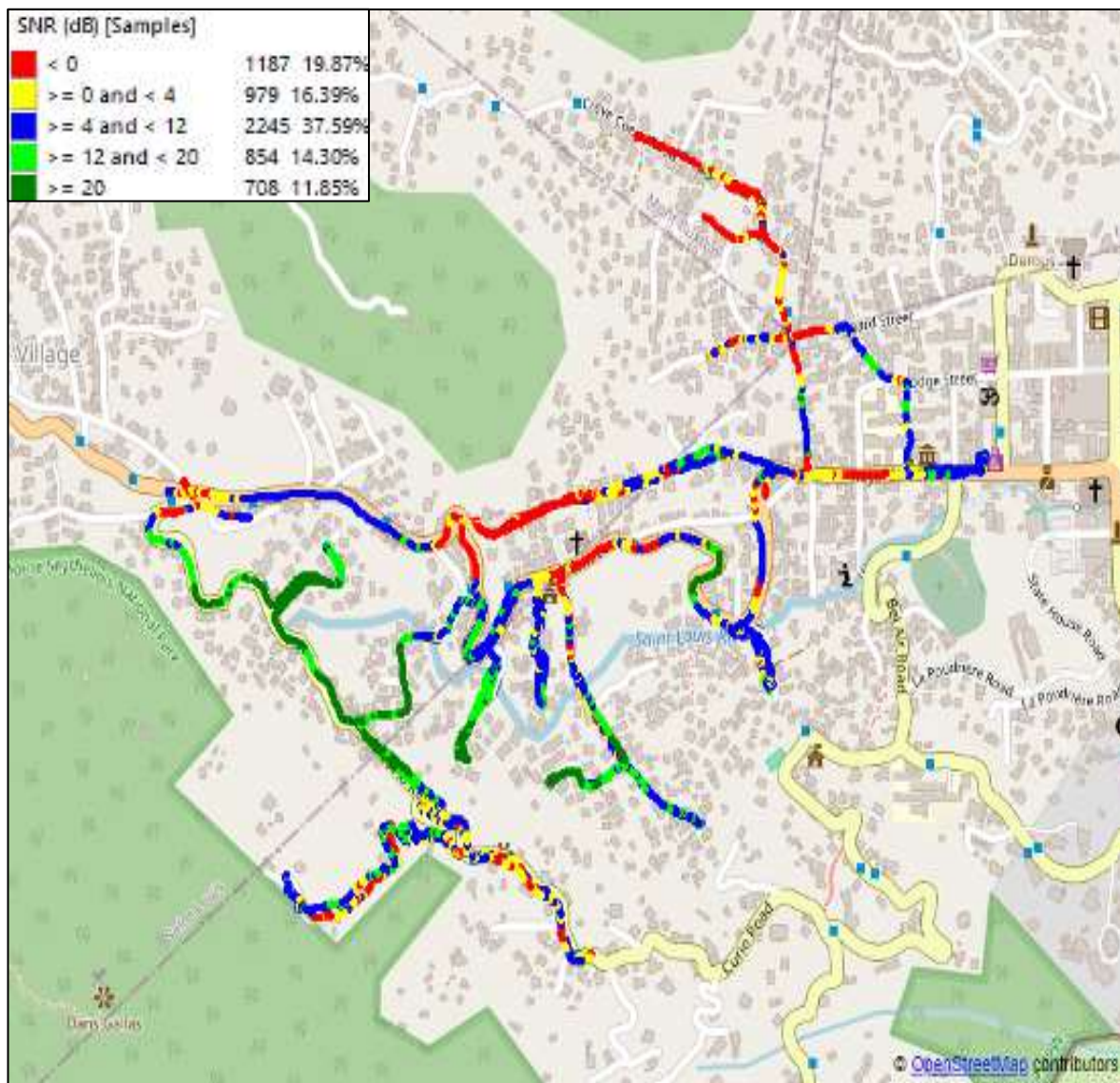
Airtel Data 4G



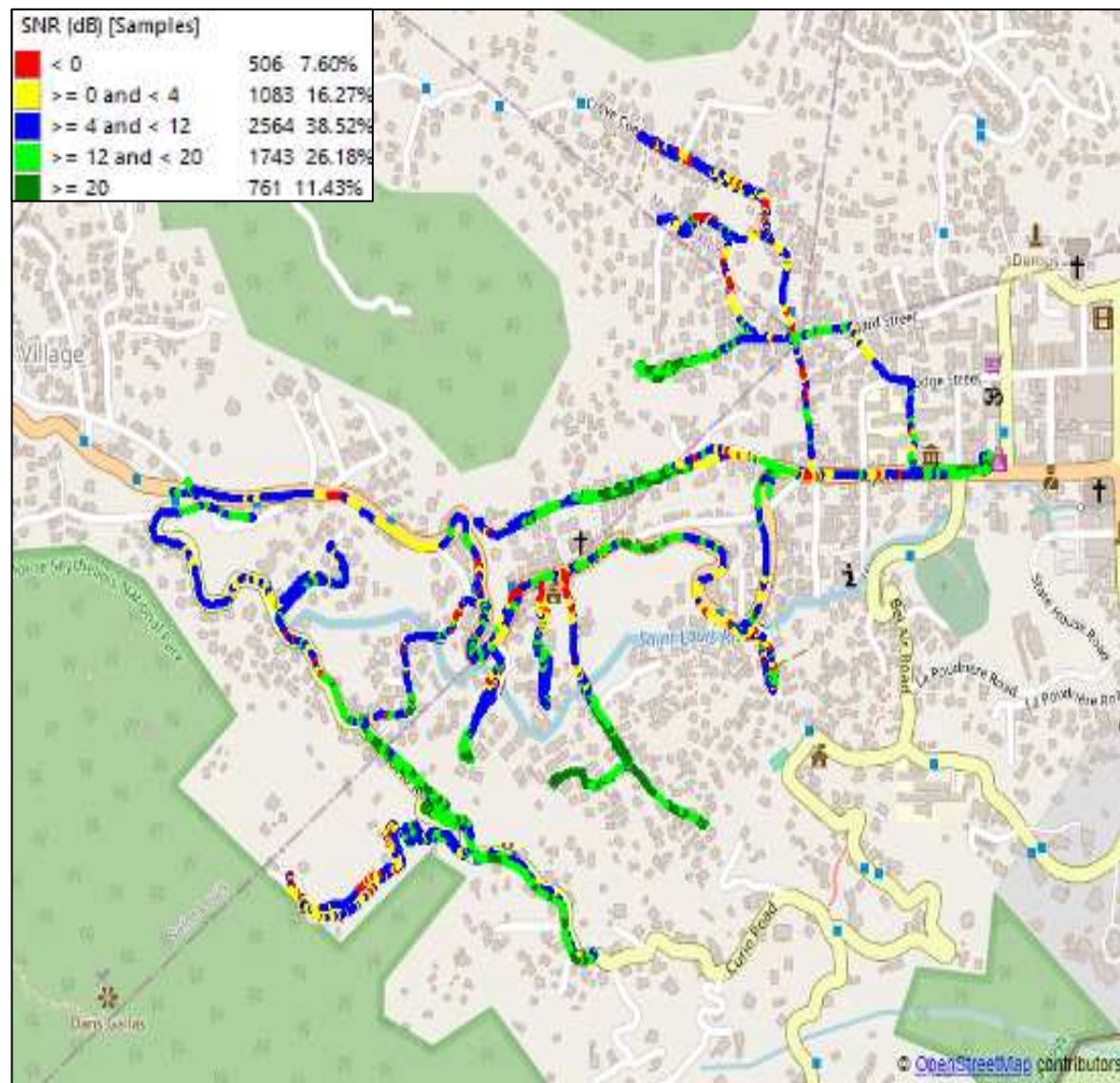
CWS Data 4G



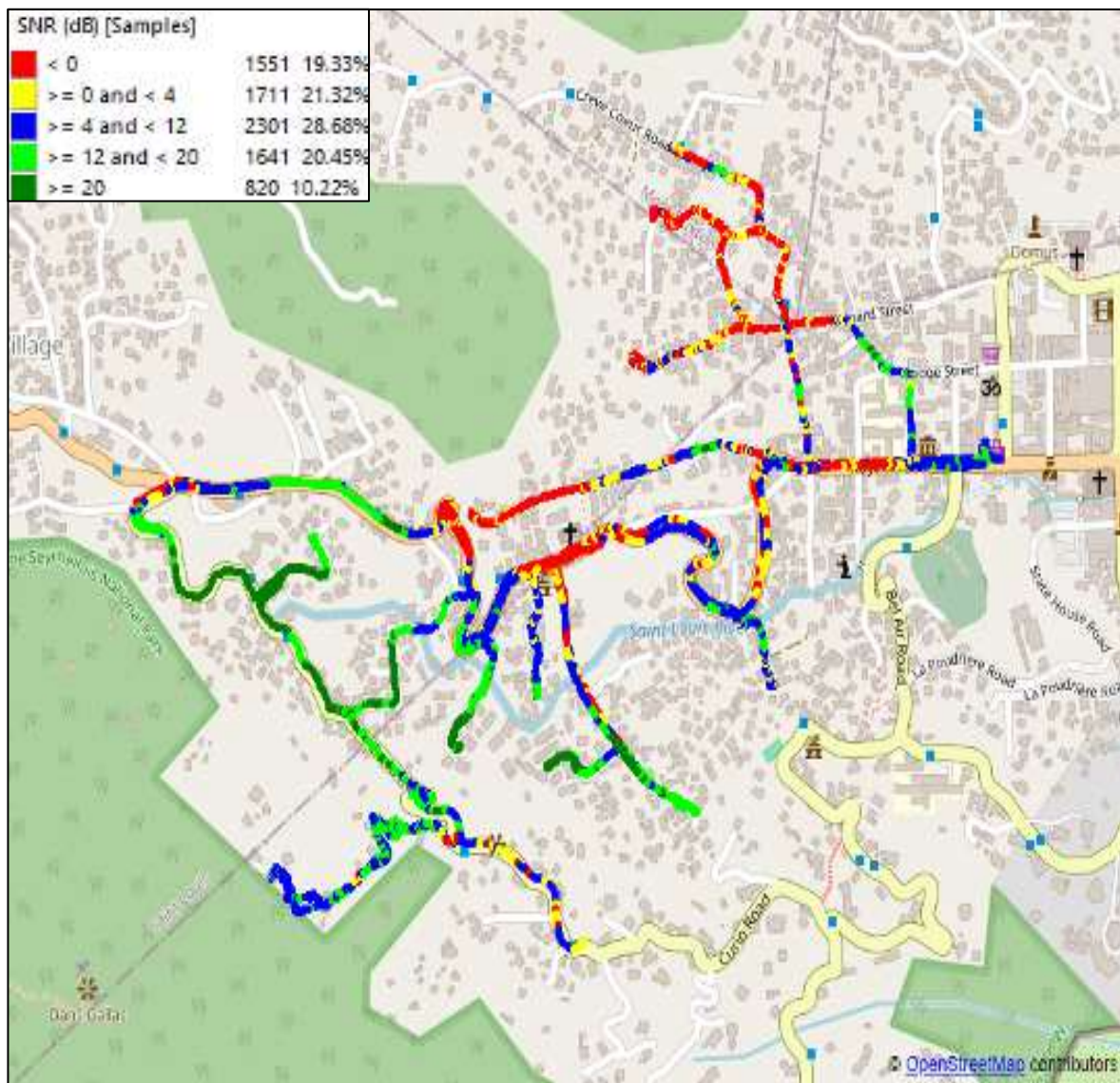
Airtel Data 4G



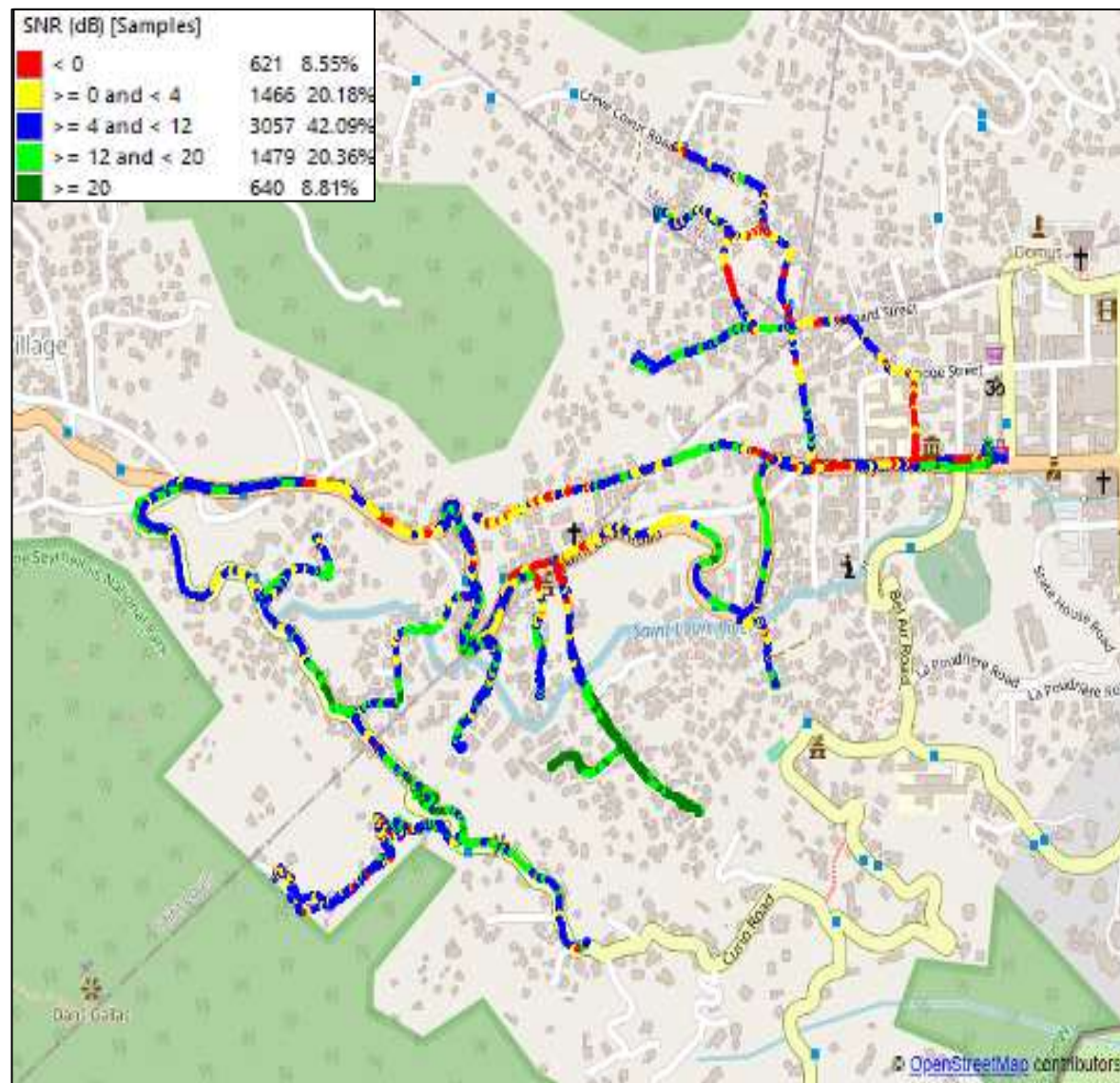
CWS Data 4G



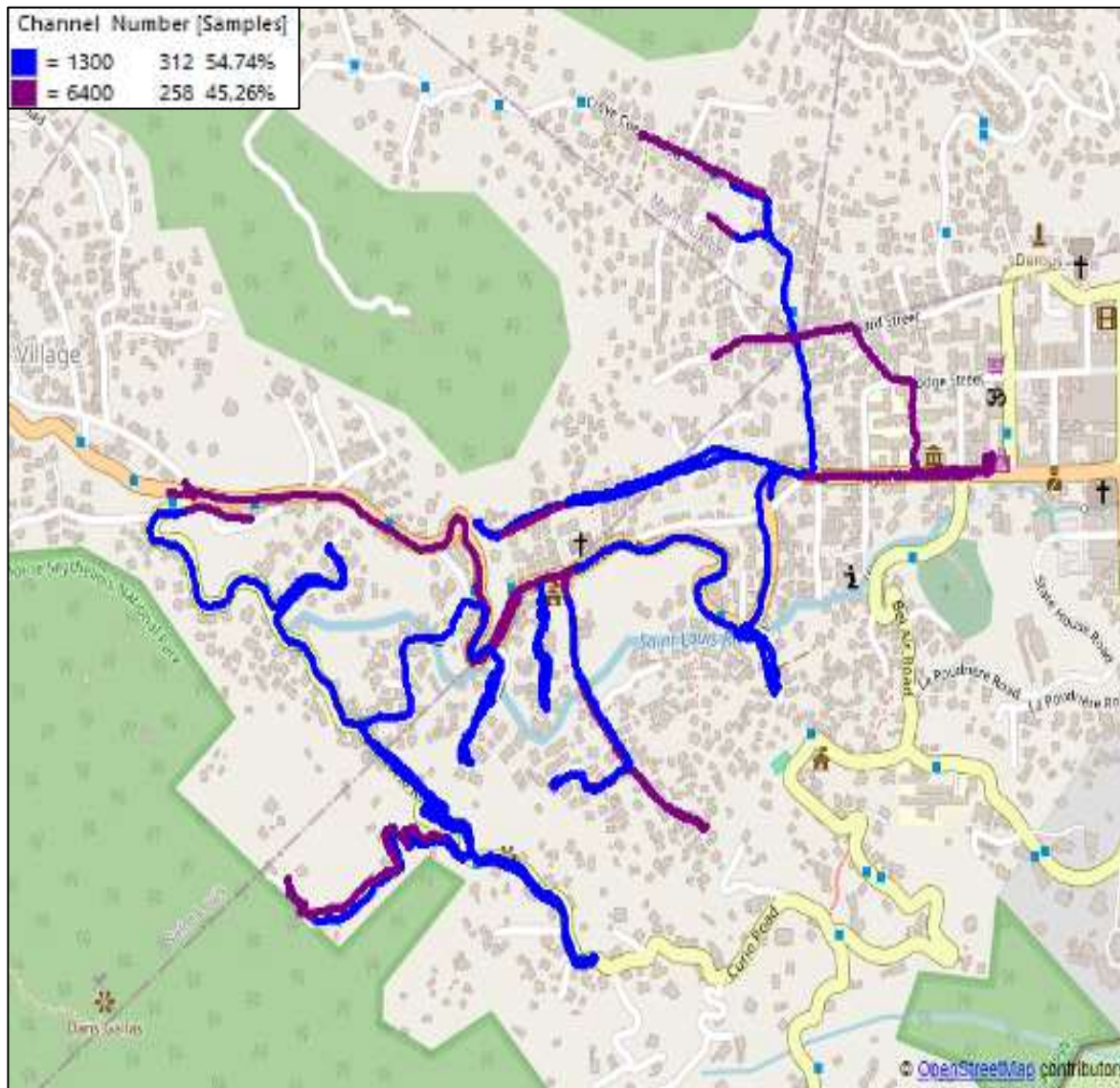
Airtel Data 4G



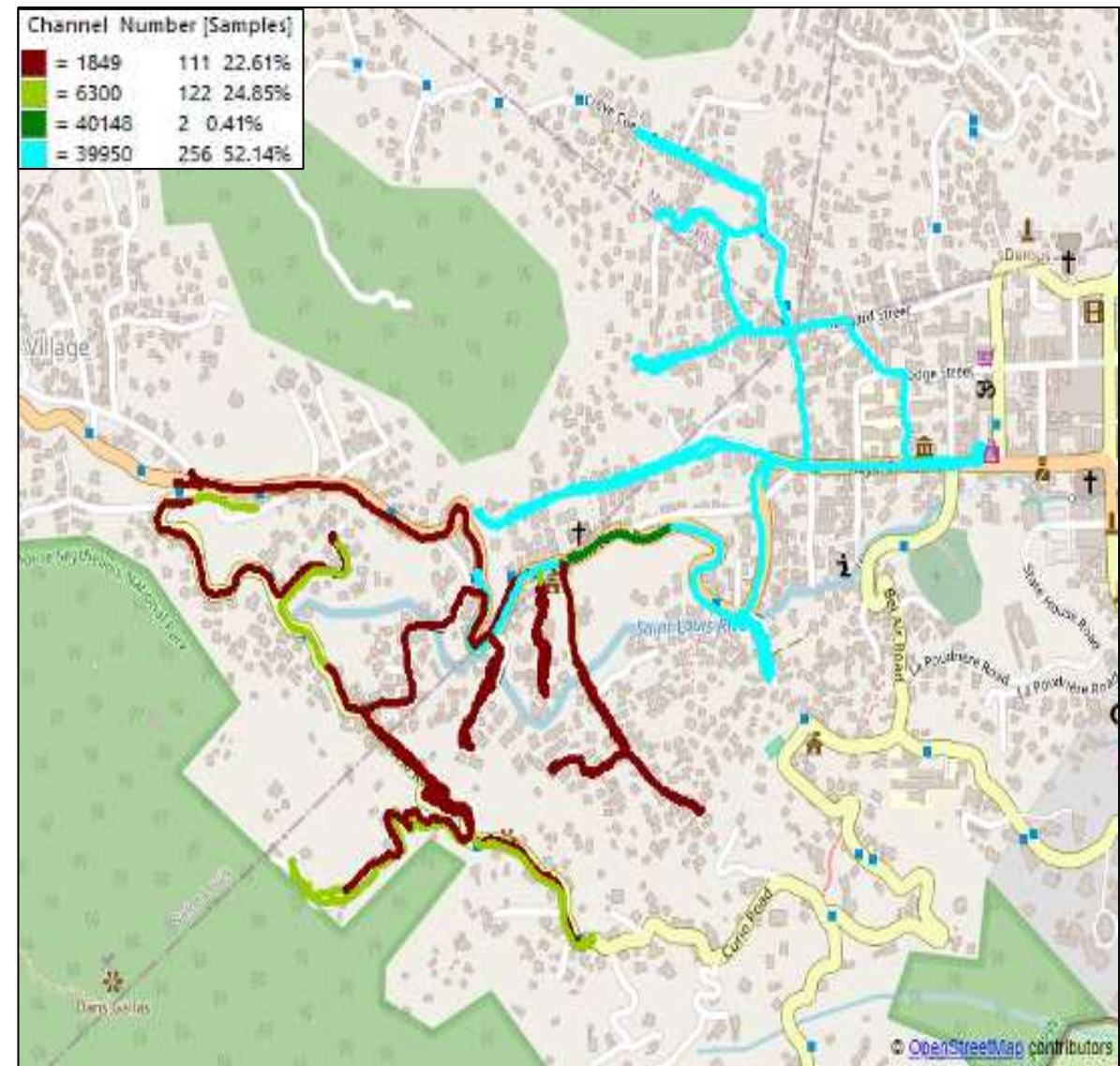
CWS Data 4G



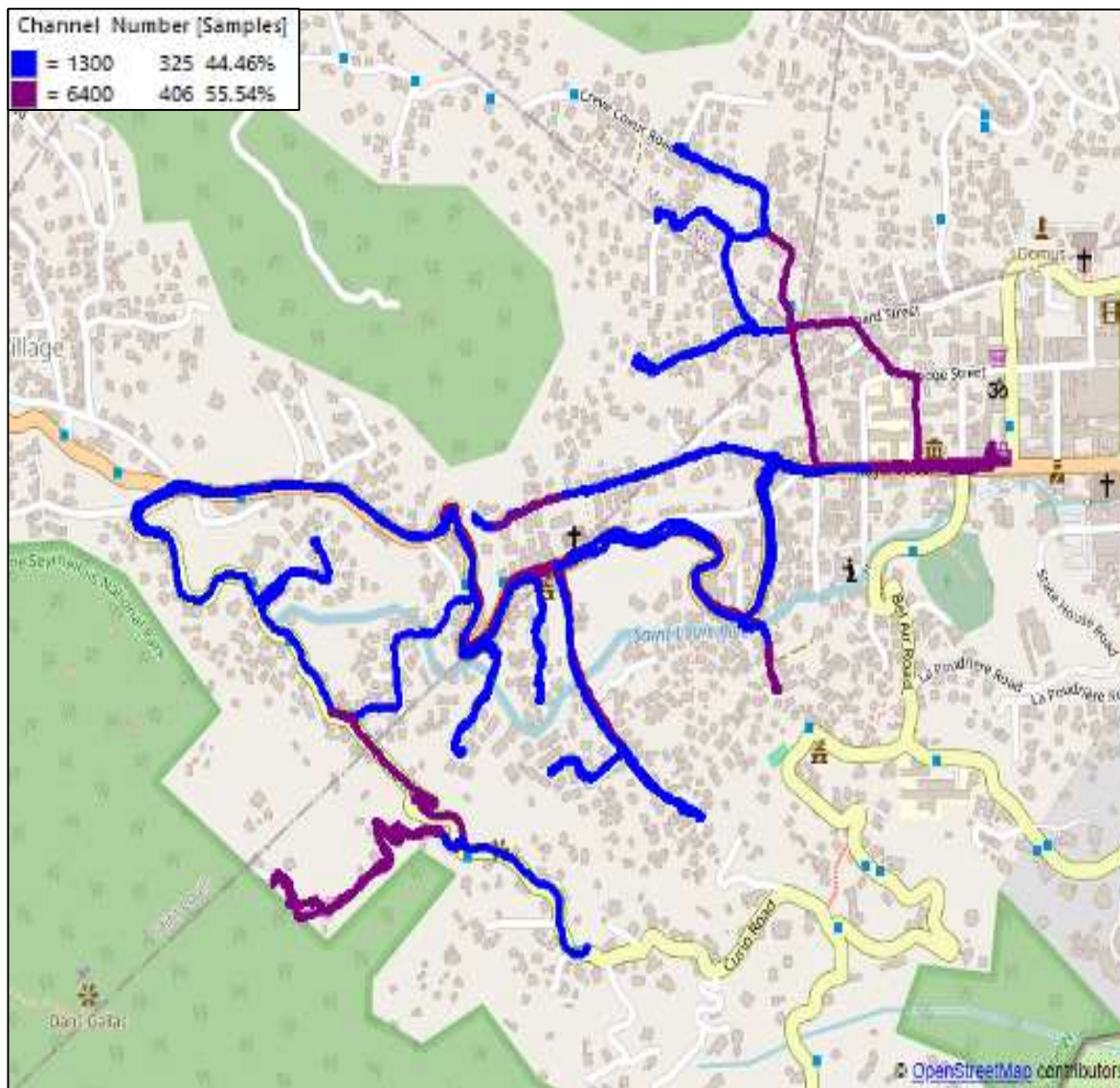
Airtel Data 4G



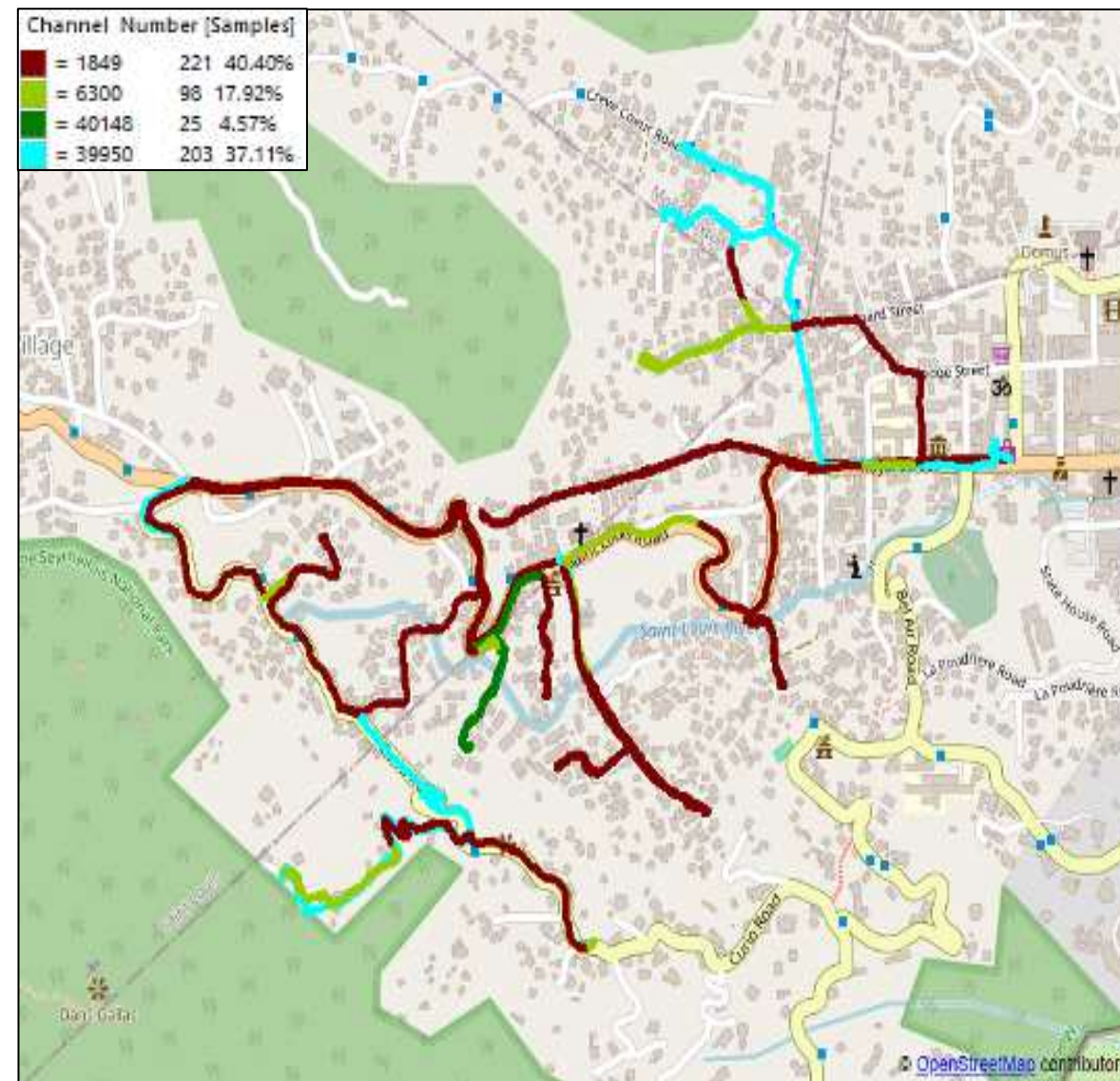
CWS Data 4G



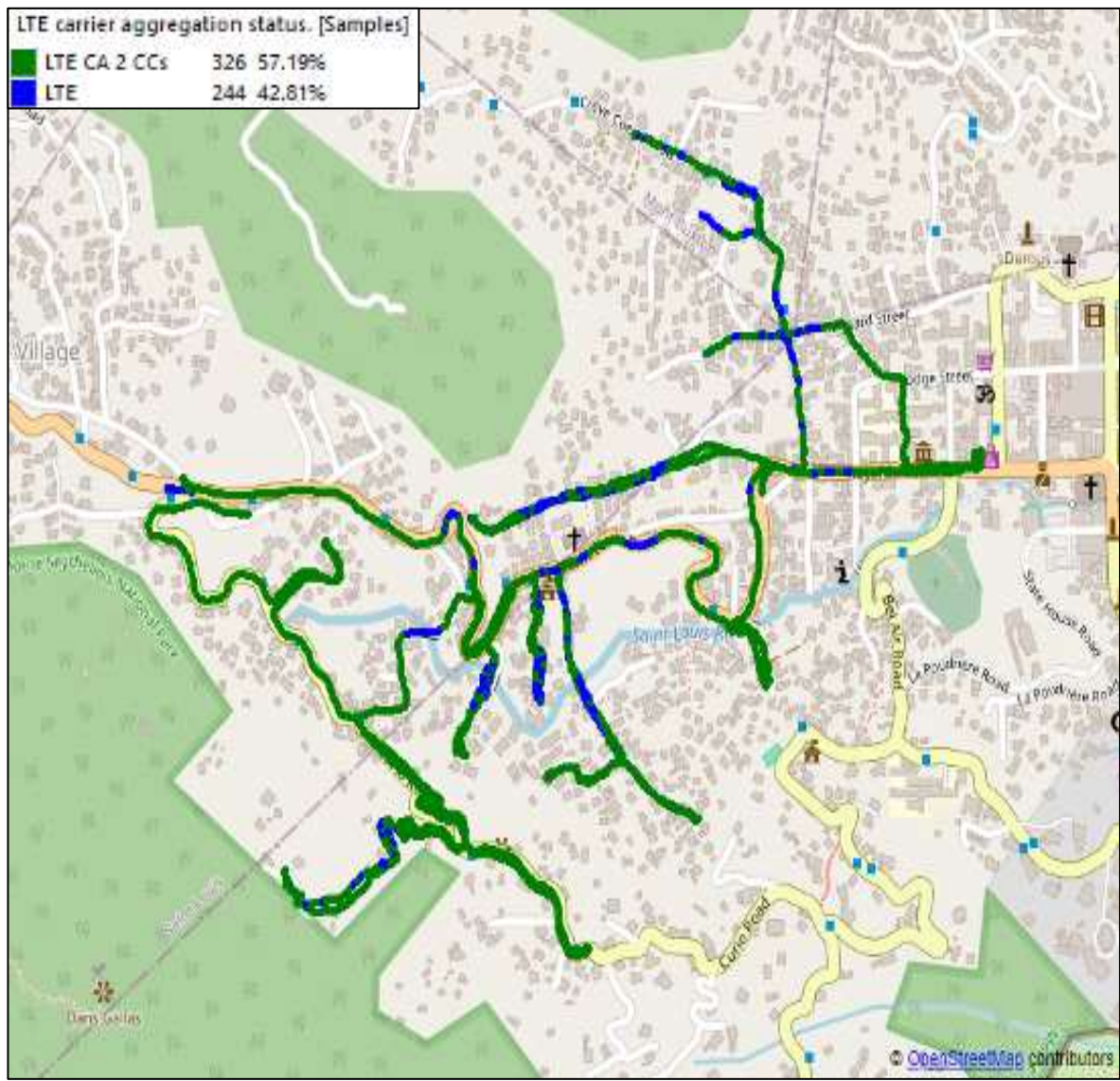
Airtel Data 4G



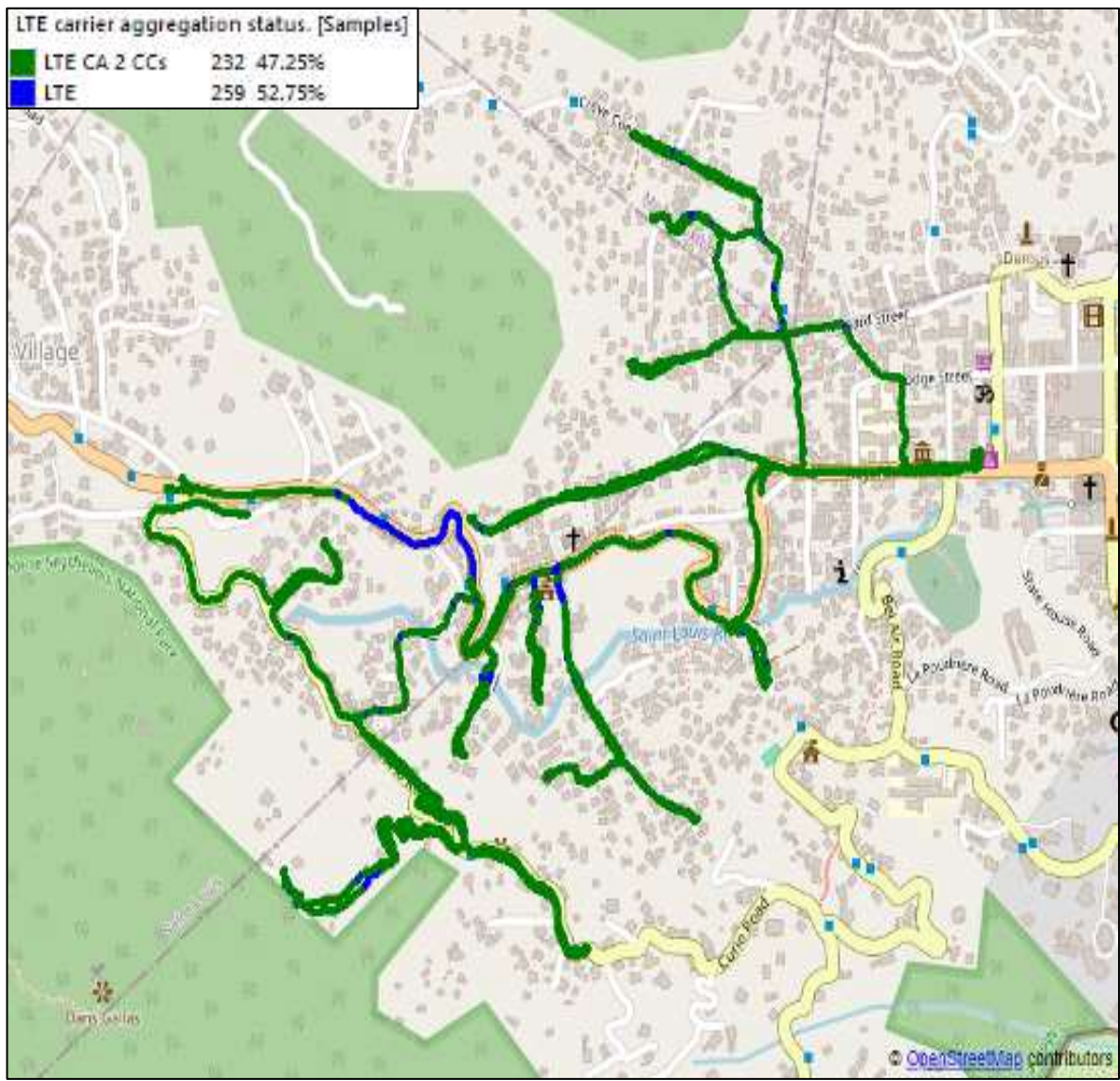
CWS Data 4G



Airtel Data 4G



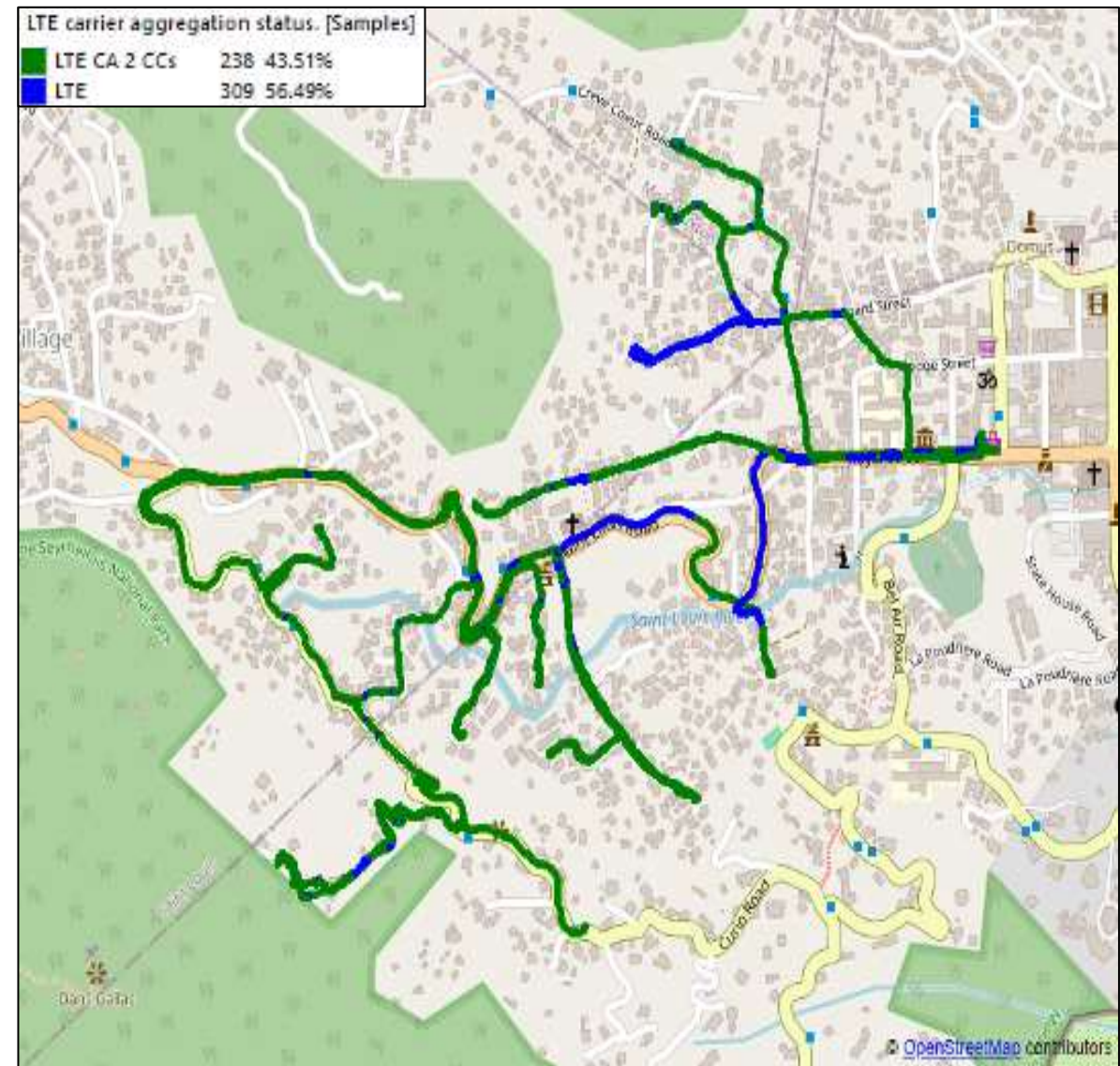
CWS Data 4G



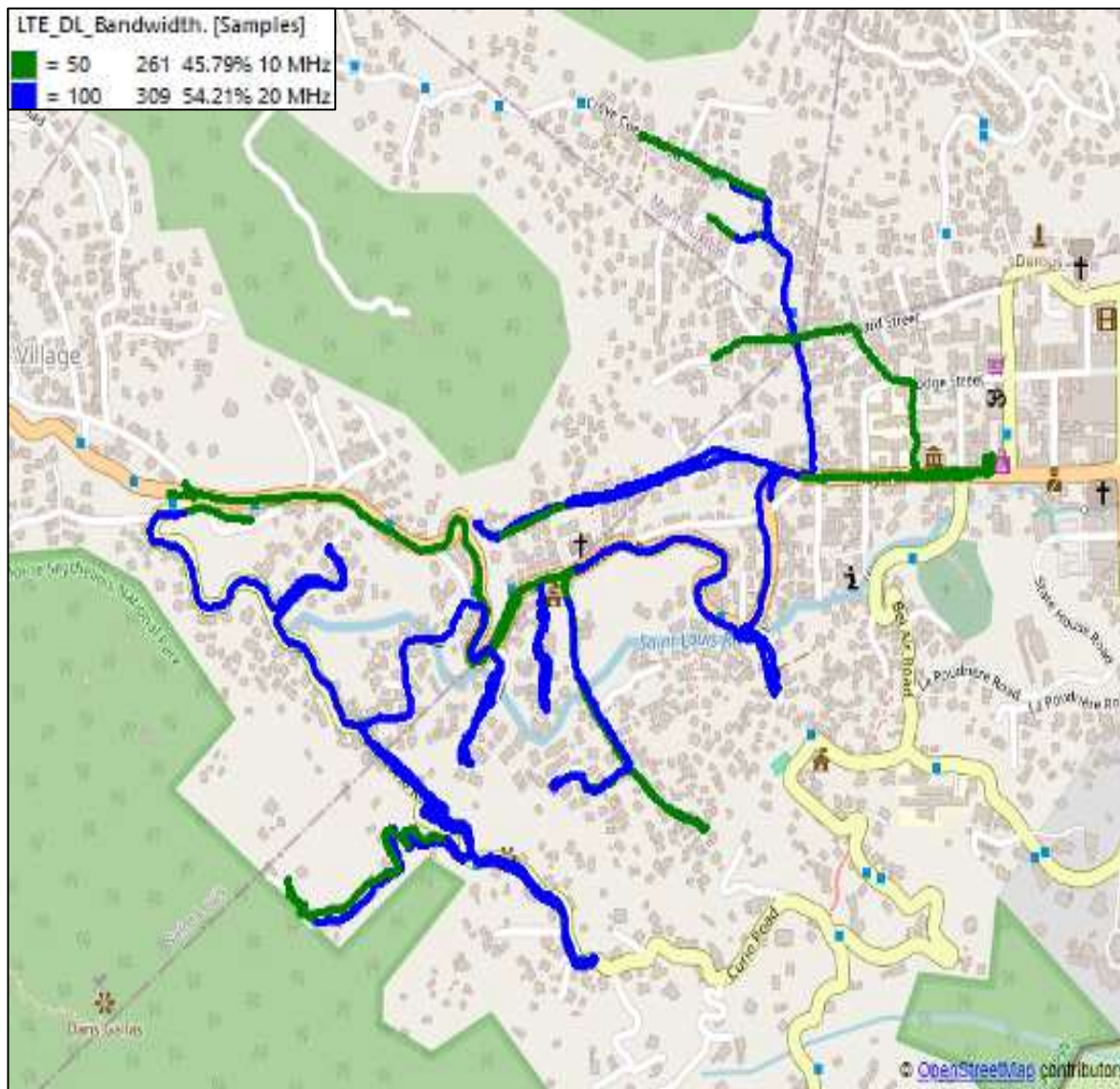
Airtel Data 4G



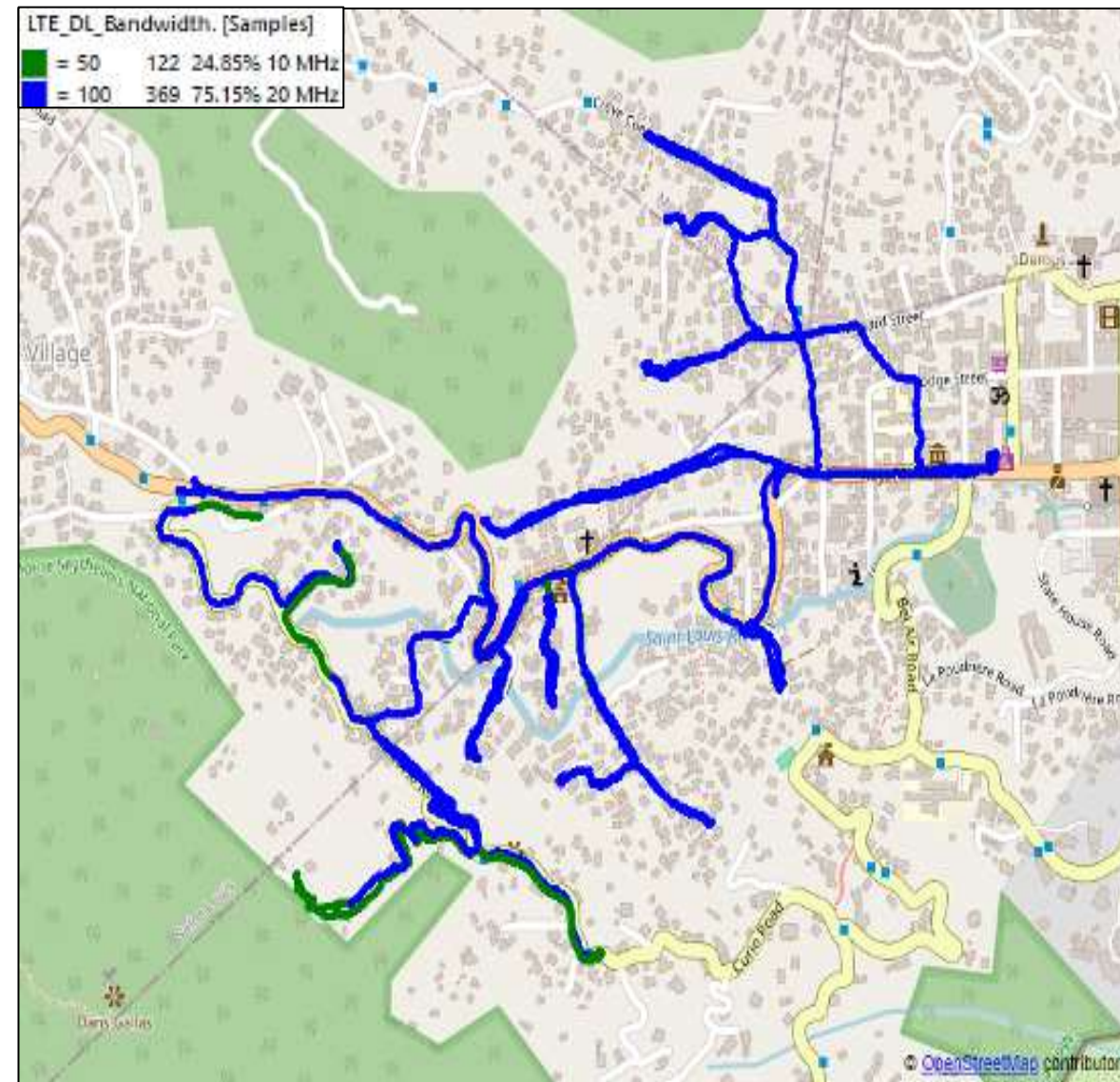
CWS Data 4G



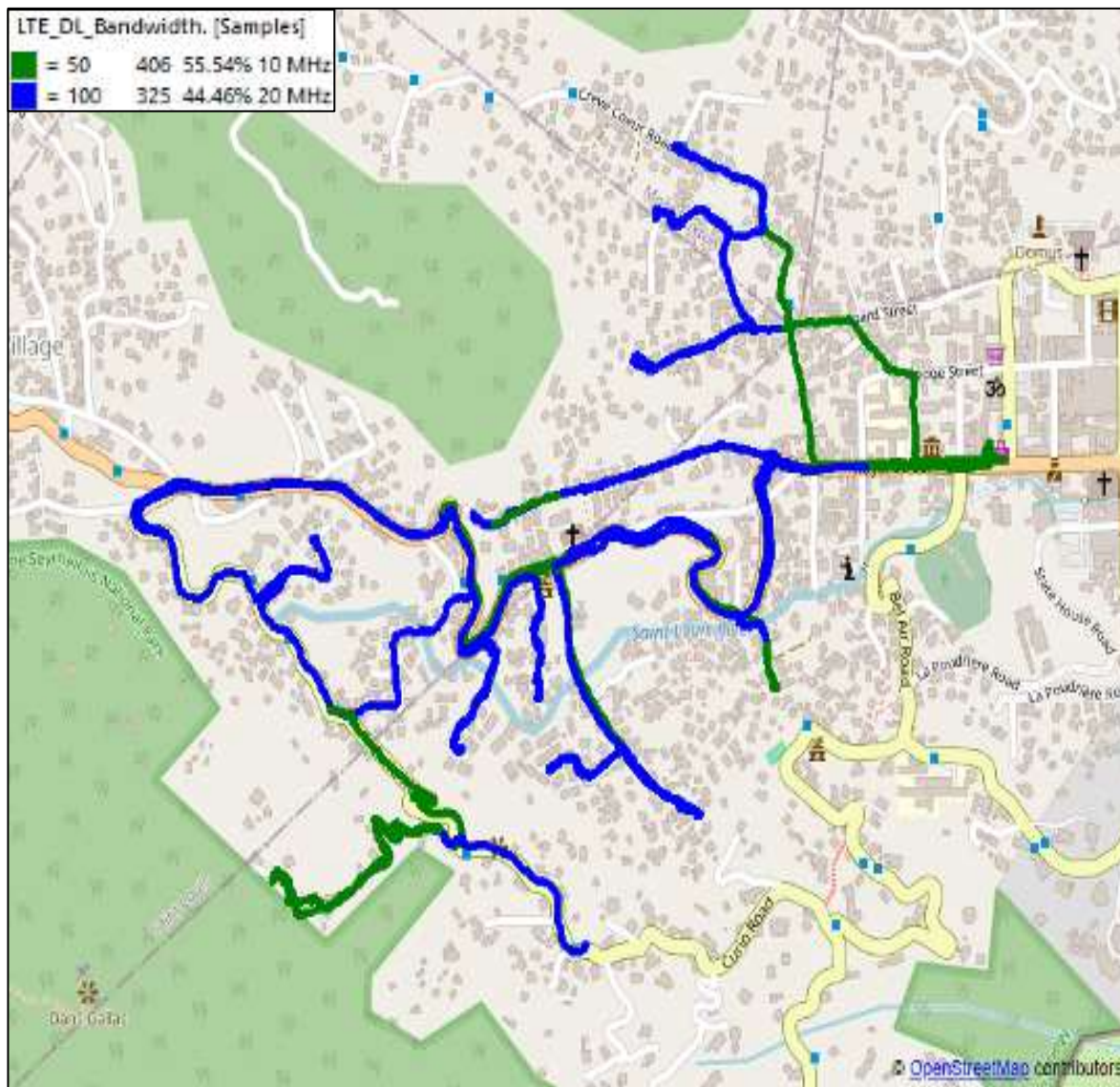
Airtel Data 4G



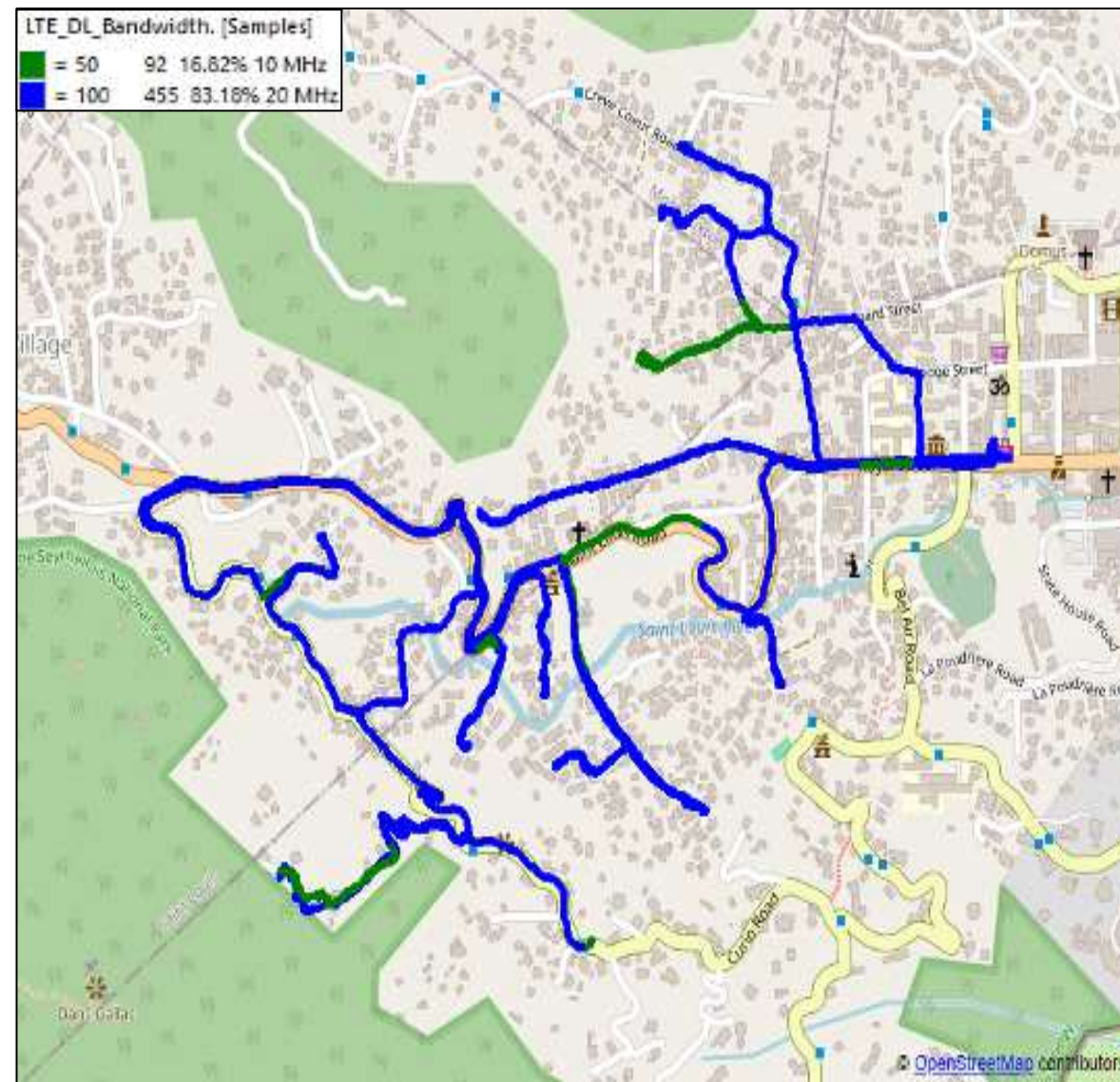
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CWS Data 4G



Negative Event Analysis

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

Call Attempt Failure cause from Airtel	Count
Total Call Attempt Failure	0

Call Attempt Failure cause from CWS	Count
Total Call Attempt Failure	3
Poor Coverage	1
Poor Quality	1
Network End	1

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

Call Drop cause from CWS	Count
Total Call Drop	0

Phase-1 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		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	14:47:54.954	UMTS FDD	2100	Call	2101. -73	14:47:50.602	10690	161			6575.	RRCSM	UMTS FDD	Downlink	14:47:49.989	BCCH	MASTER_INFORMATION_BLOCK
2.	15:19:45.704	UMTS FDD	2100	Call	2102.	14:47:50.602	10690	161	-5.1		6576.	RRCSM	UMTS FDD	Downlink	14:47:49.989	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
3.	15:24:06.924	UMTS FDD	2100	Call	2103.	14:47:51.221	10690	161			6577.	RRCSM	UMTS FDD	Downlink	14:47:49.989	CCCH	RRC_CONNECTION_SETUP
					2104.	14:47:51.221	10690	161	-7.1		6578.	RRCSM	UMTS FDD	Uplink	14:47:50.259	DCCH	RRC_CONNECTION_SETUP_COMPLETE
					2105.	14:47:51.624	10690	161			6579.	RRCSM	UMTS FDD	Uplink	14:47:50.259	DCCH	INITIAL_DIRECT_TRANSFER
					2106.	14:47:51.624	10690	161	-7.6		6580.	L3SM	UMTS FDD	Uplink	14:47:50.259	DCCH	CM_SERVICE_REQUEST
					2107.	14:47:52.241	10690	161			6581.	RRCSM	UMTS FDD	Uplink	14:47:50.259	DCCH	INITIAL_DIRECT_TRANSFER
					2108.	14:47:52.241	10690	161	-9.6		6582.	L3SM	UMTS FDD	Uplink	14:47:50.259	DCCH	ROUTING_AREA_UPDATE_REQUEST
					2109.	14:47:52.920	10690	161			6583.	RRCSM	UMTS FDD	Downlink	14:47:50.260	DCCH	MEASUREMENT_CONTROL
					2110.	14:47:52.920	10690	161	-11.7		6584.	RRCSM	UMTS FDD	Downlink	14:47:50.260	DCCH	SECURITY_MODE_COMMAND
					2111.	14:47:53.313	10690	161			6585.	RRCSM	UMTS FDD	Uplink	14:47:50.260	DCCH	SECURITY_MODE_COMPLETE
					2112.	14:47:53.313	10690	161	-8.1		6586.	RRCSM	UMTS FDD	Uplink	14:47:50.260	DCCH	UPLINK_DIRECT_TRANSFER
					2113.	14:47:53.787	10690	161			6587.	L3SM	UMTS FDD	Uplink	14:47:50.260	DCCH	SETUP
					2114.	14:47:53.787	10690	161	-10.9		6588.	RRCSM	UMTS FDD	Downlink	14:47:50.260	DCCH	DOWNLINK_DIRECT_TRANSFER
					2115.	14:47:54.470	10690	161			6589.	L3SM	UMTS FDD	Downlink	14:47:50.260	DCCH	TMSI_REALLOCATION_COMMAND
					2116.	14:47:54.470	10690	161	-6.2		6590.	RRCSM	UMTS FDD	Uplink	14:47:50.260	DCCH	UPLINK_DIRECT_TRANSFER
					2117.	14:47:54.965	10690	161			6591.	L3SM	UMTS FDD	Uplink	14:47:50.260	DCCH	TMSI_REALLOCATION_COMPLETE
					2118.	14:47:54.965	10690	161	-5.9		6592.	RRCSM	UMTS FDD	Downlink	14:47:50.601	DCCH	DOWNLINK_DIRECT_TRANSFER
					2119.	14:50:02.791	10690	20			6593.	L3SM	UMTS FDD	Downlink	14:47:50.601	DCCH	CALL_PROCEEDING
					2120.	14:50:02.791	10690	20	-8.2		6594.	RRCSM	UMTS FDD	Uplink	14:47:54.954	DCCH	UPLINK_DIRECT_TRANSFER
					2121.	14:50:03.437	10690	20			6595.	L3SM	UMTS FDD	Uplink	14:47:54.954	DCCH	DISCONNECT
					2122.	14:50:03.437	10690	20	-5.5		6596.	RRCSM	UMTS FDD	Downlink	14:47:54.954	DCCH	DOWNLINK_DIRECT_TRANSFER
					2123.	14:50:03.934	10690	20			6597.	L3SM	UMTS FDD	Downlink	14:47:54.954	DCCH	RELEASE
					2124.	14:50:03.934	10690	20	-4.3		6598.	RRCSM	UMTS FDD	Uplink	14:47:54.954	DCCH	UPLINK_DIRECT_TRANSFER
					2125.	14:50:04.444	10690	20			6599.	L3SM	UMTS FDD	Uplink	14:47:54.954	DCCH	RELEASE_COMPLETE
					2126.	14:50:04.444	10690	20	-6.9		6600.	RRCSM	UMTS FDD	Downlink	14:47:55.303	DCCH	RADIO_BEARER_SETUP
					2127.	14:50:04.935	10690	20			6601.	RRCSM	UMTS FDD	Downlink	14:47:55.304	DCCH	DOWNLINK_DIRECT_TRANSFER
					2128.	14:50:04.935	10690	20	-4.8		6602.	L3SM	UMTS FDD	Downlink	14:47:55.304	DCCH	AUTHENTICATION_AND_CIPHERING_REQUEST
					2129.	14:50:05.435	10690	20			6603.	RRCSM	UMTS FDD	Uplink	14:47:55.304	DCCH	UPLINK_DIRECT_TRANSFER
					2130.	14:50:05.435	10690	20	-5.3		6604.	L3SM	UMTS FDD	Uplink	14:47:55.304	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE
					2131.	14:50:05.964	10690	20			6605.	RRCSM	LTE FDD	Downlink	14:49:11.780	PCCH	Paging
					2132.	14:50:05.964	10690	20	-12		6606.	RRCSM	LTE FDD	Uplink	14:49:14.762	DCCH	MeasurementReport
					2133.	14:50:06.434	10690	20			6607.	RRCSM	LTE FDD	Downlink	14:49:14.816	DCCH	RRCConnectionReconfiguration
					2134.	14:50:06.434	10690	20	-13.8		6608.	RRCSM	LTE FDD	Uplink	14:49:14.816	DCCH	RRCConnectionReconfigurationComplete
					2135.	14:50:06.931	10690	20			6609.	RRCSM	LTE FDD	Downlink	14:49:14.816	BCCH-SCH	SystemInformationBlockType1
					2136.	14:50:06.931	10690	20	-6.3		6610.	RRCSM	LTE FDD	Downlink	14:49:14.869	BCCH-SCH	SystemInformation - SIB2,SIB3

Analysis:

- This call failure event occurred on short call at 14:47:54:954 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 setup fail, UE was latched with PSC 161 and RF condition RSCP -72.5 dBm and ECNO -6.2 dB are very good.
- Need to check MT End.

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

	1. best active RSCP	Time	Ch	SC	1. best active ▲	Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1685.	-87	14:47:15.541	10740	18		6947.	RRCSM	LTE TDD	Downlink	14:47:52.658	DCCH	RRConnectionReconfiguration
1686.		14:47:15.541	10740	18	-5.6	6948.	RRCSM	LTE TDD	Uplink	14:47:52.663	DCCH	RRConnectionReconfigurationComplete
1687.	-89.2	14:47:15.983	10740	18		6949.	RRCSM	LTE TDD	Downlink	14:47:52.678	DCCH	UECapabilityEnquiry
1688.		14:47:15.983	10740	18	-6.3	6950.	RRCSM	LTE TDD	Uplink	14:47:52.679	DCCH	UECapabilityInformation
1689.	-95.7	14:47:16.601	10740	18		6951.	RRCSM	UMTS FDD	Uplink	14:47:52.679		INTER_RAT_HANDOVER_INFO
1690.		14:47:16.601	10740	18	-7.8	6952.	RRCSM	LTE TDD	Downlink	14:47:52.680	DCCH	RRConnectionReconfiguration
1691.	-88.4	14:47:16.816	10740	18		6953.	RRCSM	LTE TDD	Uplink	14:47:52.682	DCCH	RRConnectionReconfigurationComplete
1692.		14:47:16.816	10740	18	-5.7	6954.	RRCSM	LTE TDD	Uplink	14:47:53.265	DCCH	MeasurementReport
1693.	-96	14:47:17.601	10740	18		6955.	RRCSM	LTE TDD	Downlink	14:47:53.288	DCCH	RRConnectionRelease
1694.		14:47:17.601	10740	18	-8.6	6956.	RRCSM	UMTS FDD	Downlink	14:47:53.288	BCCH	SYSTEM_INFORMATION_CONTAINER
1695.	-98.8	14:47:18.054	10740	18		6957.	RRCSM	UMTS FDD	Downlink	14:47:53.288	BCCH	SYSTEM_INFORMATION_CONTAINER
1696.		14:47:18.054	10740	18	-11.6	6958.	RRCSM	UMTS FDD	Downlink	14:47:53.288	BCCH	SYSTEM_INFORMATION_CONTAINER
1697.	-96.2	14:47:18.585	10740	18		6959.	RRCSM	UMTS FDD	Downlink	14:47:53.288	BCCH	SYSTEM_INFORMATION_CONTAINER
1698.		14:47:18.585	10740	18	-9.3	6960.	RRCSM	UMTS FDD	Downlink	14:47:53.288	BCCH	SYSTEM_INFORMATION_CONTAINER
1699.	-98.8	14:47:18.855	10740	18		6961.	RRCSM	UMTS FDD	Downlink	14:47:53.288	BCCH	SYSTEM_INFORMATION_CONTAINER
1700.		14:47:18.855	10740	18	-10.4	6962.	RRCSM	UMTS FDD	Downlink	14:47:53.288	BCCH	SYSTEM_INFORMATION_CONTAINER
1701.	-92.1	14:47:19.758	10740	18		6963.	RRCSM	UMTS FDD	Downlink	14:47:53.288	BCCH	SYSTEM_INFORMATION_CONTAINER
1702.		14:47:19.758	10740	18	-8	6964.	RRCSM	UMTS FDD	Downlink	14:47:53.626	BCCH_BCH	SYSTEM_INFORMATION_BCH
1703.	-67.6	14:47:53.956	10715	161		6965.	RRCSM	UMTS FDD	Downlink	14:47:53.646	BCCH_BCH	SYSTEM_INFORMATION_BCH
1704.		14:47:53.956	10715	161	-12.7	6966.	RRCSM	UMTS FDD	Downlink	14:47:53.666	BCCH_BCH	SYSTEM_INFORMATION_BCH
1705.	-64.5	14:47:54.604	10715	161		6967.	RRCSM	UMTS FDD	Downlink	14:47:53.666	BCCH	MASTER_INFORMATION_BLOCK
1706.		14:47:54.604	10715	161	-4.1	6968.	RRCSM	UMTS FDD	Downlink	14:47:53.666	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
1707.	-75.2	14:47:55.111	10715	161		6969.	RRCSM	UMTS FDD	Downlink	14:47:53.686	BCCH_BCH	SYSTEM_INFORMATION_BCH
1708.		14:47:55.111	10715	161	-5.3	6970.	RRCSM	UMTS FDD	Downlink	14:47:53.686	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_2
1709.	-66	14:50:06.130	10690	20		6971.	RRCSM	UMTS FDD	Downlink	14:47:53.686	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
1710.		14:50:06.130	10690	20	-11.6	6972.	RRCSM	UMTS FDD	Downlink	14:47:53.866	BCCH_BCH	SYSTEM_INFORMATION_BCH
1711.	-66	14:50:06.715	10690	20		6973.	RRCSM	UMTS FDD	Downlink	14:47:53.886	BCCH_BCH	SYSTEM_INFORMATION_BCH
1712.		14:50:06.715	10690	20	-6.2	6974.	RRCSM	UMTS FDD	Downlink	14:47:53.906	BCCH_BCH	SYSTEM_INFORMATION_BCH
1713.	-66	14:50:07.327	10690	20		6975.	RRCSM	UMTS FDD	Downlink	14:47:53.906	BCCH	MASTER_INFORMATION_BLOCK
1714.		14:50:07.327	10690	20	-6.8	6976.	RRCSM	UMTS FDD	Downlink	14:47:53.906	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
1715.	-66	14:50:07.635	10690	20		6977.	RRCSM	UMTS FDD	Downlink	14:47:53.926	BCCH_BCH	SYSTEM_INFORMATION_BCH
1716.		14:50:07.635	10690	20	-5.3	6978.	RRCSM	UMTS FDD	Downlink	14:47:53.926	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_5
1717.	-66	14:50:08.120	10690	20		6979.	RRCSM	UMTS FDD	Downlink	14:47:53.946	BCCH_BCH	SYSTEM_INFORMATION_BCH
1718.		14:50:08.120	10690	20	-6.4	6980.	RRCSM	UMTS FDD	Downlink	14:47:53.946	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_1
1719.	-66	14:50:08.775	10690	20		6981.	RRCSM	UMTS FDD	Downlink	14:47:53.966	BCCH_BCH	SYSTEM_INFORMATION_BCH
1720.		14:50:08.775	10690	20	-5.6	6982.	RRCSM	UMTS FDD	Downlink	14:47:53.966	BCCH	SCHEDULING_BLOCK_1

Analysis:

- On MT End, During the setup fail, UE was latched with PSC 18 and RF condition RSCP -92.1 dBm and ECNO -8 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		1. best active RSCP	Time	Ch	SC	1. best active Ec/NO		System	Transf. dir.	Time	Subchannel	Message name	
1.	14:47:54.954	UMTS FDD	2100	Call	4148.						13819.	UMTS FDD	Downlink	15:19:45.350	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_1
2.	15:19:45.704	UMTS FDD	2100	Call	4149.	-90.6	15:19:40.496	10690 84			13820.	UMTS FDD	Downlink	15:19:45.370	BCCH_BCH	SYSTEM_INFORMATION_BCH
3.	15:24:06.924	UMTS FDD	2100	Call	4150.		15:19:40.496	10690 84	-24		13821.	UMTS FDD	Downlink	15:19:45.370	BCCH	SCHEDULING_BLOCK_1
					4151.	-91.7	15:19:40.925	10690 84			13822.	UMTS FDD	Downlink	15:19:45.430	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4152.		15:19:40.925	10690 84	-25.8		13823.	UMTS FDD	Downlink	15:19:45.430	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_19
					4153.	-84.8	15:19:41.392	10690 84			13824.	UMTS FDD	Downlink	15:19:45.430	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_19
					4154.		15:19:41.392	10690 84	-25.9		13825.	UMTS FDD	Uplink	15:19:45.501	CCCH	RRC_CONNECTION_REQUEST
					4155.	-90.1	15:19:41.892	10690 84			13826.	UMTS FDD	Downlink	15:19:45.530	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4156.		15:19:41.892	10690 84	-24.9		13827.	UMTS FDD	Downlink	15:19:45.550	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4157.	-92.7	15:19:42.403	10690 84			13828.	UMTS FDD	Downlink	15:19:45.550	BCCH	MASTER_INFORMATION_BLOCK
					4158.		15:19:42.403	10690 84	-24		13829.	UMTS FDD	Downlink	15:19:45.550	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					4159.	-91.8	15:19:42.892	10690 84			13830.	UMTS FDD	Downlink	15:19:45.570	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4160.		15:19:42.892	10690 84	-25.6		13831.	UMTS FDD	Downlink	15:19:45.570	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_2
					4161.	-87.2	15:19:43.392	10690 84			13832.	UMTS FDD	Downlink	15:19:45.570	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					4162.		15:19:43.392	10690 84	-24.8		13833.	UMTS FDD	Downlink	15:19:45.590	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4163.	-88.6	15:19:43.892	10690 84			13834.	UMTS FDD	Downlink	15:19:45.610	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4164.		15:19:43.892	10690 84	-21.7		13835.	UMTS FDD	Downlink	15:19:45.630	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4165.	-97.3	15:19:44.601	10690 84			13836.	UMTS FDD	Downlink	15:19:45.630	BCCH	MASTER_INFORMATION_BLOCK
					4166.		15:19:44.601	10690 84	-25.2		13837.	UMTS FDD	Downlink	15:19:45.630	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					4167.	-97.3	15:19:44.864	10690 84			13838.	UMTS FDD	Downlink	15:19:45.650	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4168.		15:19:44.864	10690 84	-25.2		13839.	UMTS FDD	Downlink	15:19:45.653	CCCH	RRC_CONNECTION_SETUP
					4169.	-97.3	15:19:45.704	10690 84			13840.	UMTS FDD	Uplink	15:19:45.704	DCCH	RRC_CONNECTION_SETUP_COMPLETE
					4170.		15:19:45.704	10690 84	-25.2		13841.	UMTS FDD	Uplink	15:19:45.870	DCCH	INITIAL_DIRECT_TRANSFER
					4171.	-97.3	15:19:45.890	10690 84			13842.	UMTS FDD	Uplink	15:19:45.870	DCCH	LOCATION_UPDATING_REQUEST
					4172.		15:19:45.890	10690 84	-25.2		13843.	UMTS FDD	Downlink	15:19:45.997	DCCH	MEASUREMENT_CONTROL
					4173.	-97.3	15:19:46.669	10690 84			13844.	UMTS FDD	Downlink	15:19:46.017	DCCH	DOWNLINK_DIRECT_TRANSFER
					4174.		15:19:46.669	10690 84	-25.2		13845.	UMTS FDD	Downlink	15:19:46.017	DCCH	IDENTITY_REQUEST
					4175.	-77.2	15:19:49.614	10690 20			13846.	UMTS FDD	Uplink	15:19:46.017	DCCH	UPLINK_DIRECT_TRANSFER
					4176.		15:19:49.614	10690 20	-6.7		13847.	UMTS FDD	Uplink	15:19:46.017	DCCH	IDENTITY_RESPONSE
					4177.	-73	15:20:17.407	10690 20			13848.	UMTS FDD	Downlink	15:19:46.117	DCCH	DOWNLINK_DIRECT_TRANSFER
					4178.		15:20:17.407	10690 20	-7.9		13849.	UMTS FDD	Downlink	15:19:46.117	DCCH	IDENTITY_REQUEST
					4179.	-73	15:20:17.677	10690 20			13850.	UMTS FDD	Uplink	15:19:46.118	DCCH	UPLINK_DIRECT_TRANSFER
					4180.		15:20:17.677	10690 20	-4.8		13851.	UMTS FDD	Uplink	15:19:46.118	DCCH	IDENTITY_RESPONSE
					4181.	-73	15:20:18.602	10690 20			13852.	UMTS FDD	Downlink	15:19:46.417	DCCH	SECURITY_MODE_COMMAND
					4182.		15:20:18.602	10690 20	-5.8		13853.	UMTS FDD	Uplink	15:19:46.418	DCCH	SECURITY_MODE_COMPLETE
					4183.	-73	15:20:18.865	10690 20			13854.	UMTS FDD	Downlink	15:19:46.517	DCCH	DOWNLINK_DIRECT_TRANSFER

Analysis:

- This call failure event occurred on short call at 15:19:45:704 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 setup fail, UE was latched with PSC 84 and RF condition RSCP -97.3 dBm good but ECNO -25.2 dB are very good.
- 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. best active Ec/NO		System	Transf. dir.	Time	Subchannel	Message name	
1.	14:47:54.954	UMTS FDD	2100	Call	4329. -102	15:23:19.845	10740	21			14765.	UMTS FDD	Downlink	15:24:02.705	BCCH_BCH	SYSTEM_INFORMATION_BCH
2.	15:19:45.704	UMTS FDD	2100	Call	4330.	15:23:19.845	10740	21	-9.4		14766.	UMTS FDD	Downlink	15:24:02.705	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_19
3.	15:24:06.924	UMTS FDD	2100	Call	4331. -107.8	15:23:20.509	10740	21			14767.	UMTS FDD	Downlink	15:24:02.725	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4332.	15:23:20.509	10740	202	-13.6		14768.	UMTS FDD	Downlink	15:24:02.745	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4333.	15:23:21.040	10740	21			14769.	UMTS FDD	Downlink	15:24:02.745	BCCH	MASTER_INFORMATION_BLOCK
					4334.	15:23:21.040	10740	21	-13.2		14770.	UMTS FDD	Downlink	15:24:02.745	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					4335.	15:23:21.507	10740	21			14771.	UMTS FDD	Downlink	15:24:02.765	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4336.	15:23:21.507	10740	21	-14.8		14772.	UMTS FDD	Downlink	15:24:02.778	CCCH	RRC_CONNECTION_SETUP
					4337.	15:23:22.047	10740	21			14773.	UMTS FDD	Uplink	15:24:02.833	DCCH	RRC_CONNECTION_SETUP_COMPLETE
					4338.	15:23:22.047	10740	21	-11.8		14774.	UMTS FDD	Uplink	15:24:02.834	DCCH	INITIAL_DIRECT_TRANSFER
					4339.	15:23:22.547	10740	21			14775.	UMTS FDD	Uplink	15:24:02.834	DCCH	CM_SERVICE_REQUEST
					4340.	15:23:22.547	10740	21	-10		14776.	UMTS FDD	Uplink	15:24:02.834	DCCH	INITIAL_DIRECT_TRANSFER
					4341.	15:23:22.870	10740	21			14777.	UMTS FDD	Uplink	15:24:02.834	DCCH	ROUTING_AREA_UPDATE_REQUEST
					4342.	15:23:22.870	10740	21	-15.8		14778.	UMTS FDD	Downlink	15:24:03.126	DCCH	MEASUREMENT_CONTROL
					4343.	15:23:23.547	10740	21			14779.	UMTS FDD	Downlink	15:24:03.136	DCCH	SECURITY_MODE_COMMAND
					4344.	15:23:23.547	10740	21	-10.5		14780.	UMTS FDD	Uplink	15:24:03.137	DCCH	SECURITY_MODE_COMPLETE
					4345.	15:23:23.967	10740	21			14781.	UMTS FDD	Uplink	15:24:03.208	DCCH	UPLINK_DIRECT_TRANSFER
					4346.	15:23:23.967	10740	21	-12		14782.	UMTS FDD	Uplink	15:24:03.208	DCCH	SETUP
					4347.	15:23:24.708	10740	24			14783.	UMTS FDD	Downlink	15:24:03.236	DCCH	DOWNLINK_DIRECT_TRANSFER
					4348.	15:23:24.708	10740	24	-17.7		14784.	UMTS FDD	Downlink	15:24:03.236	DCCH	TMSI_REALLOCATION_COMMAND
					4349.	15:23:25.207	10740	24			14785.	UMTS FDD	Uplink	15:24:03.237	DCCH	UPLINK_DIRECT_TRANSFER
					4350.	15:23:25.207	10740	24	-18.3		14786.	UMTS FDD	Uplink	15:24:03.237	DCCH	TMSI_REALLOCATION_COMPLETE
					4351.	15:23:25.673	10740	24			14787.	UMTS FDD	Downlink	15:24:03.366	DCCH	DOWNLINK_DIRECT_TRANSFER
					4352.	15:23:25.673	10740	24	-12.9		14788.	UMTS FDD	Downlink	15:24:03.366	DCCH	CALL_PROCEEDING
					4353.	15:23:25.967	10740	24			14789.	UMTS FDD	Uplink	15:24:06.924	DCCH	UPLINK_DIRECT_TRANSFER
					4354.	15:23:25.967	10740	24	-17.6		14790.	UMTS FDD	Uplink	15:24:06.924	DCCH	DISCONNECT
					4355.	15:23:26.117	10740	24			14791.	UMTS FDD	Downlink	15:24:07.006	DCCH	DOWNLINK_DIRECT_TRANSFER
					4356.	15:23:26.117	10740	24	-17.6		14792.	UMTS FDD	Downlink	15:24:07.006	DCCH	RELEASE
					4357.	15:23:26.118	10740	24			14793.	UMTS FDD	Uplink	15:24:07.007	DCCH	UPLINK_DIRECT_TRANSFER
					4358.	15:23:26.118	10740	24	-17.6		14794.	UMTS FDD	Uplink	15:24:07.007	DCCH	RELEASE_COMPLETE
					4359.	15:23:26.597	10740	24			14795.	UMTS FDD	Downlink	15:24:07.096	DCCH	DOWNLINK_DIRECT_TRANSFER
					4360.	15:23:26.597	10740	24	-17.5		14796.	UMTS FDD	Downlink	15:24:07.096	DCCH	AUTHENTICATION_AND_CIPHERING_REQUEST
					4361.	15:23:26.618	10740	24			14797.	UMTS FDD	Uplink	15:24:07.134	DCCH	UPLINK_DIRECT_TRANSFER
					4362.	15:23:26.618	10740	24	-17.5		14798.	UMTS FDD	Uplink	15:24:07.134	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE
					4363.	15:23:26.828	10740	24			14799.	UMTS FDD	Downlink	15:24:07.166	DCCH	SIGNALING_CONNECTION_RELEASE
					4364.	15:23:26.828	10740	24	-17.5		14800.	UMTS FDD	Uplink	15:24:07.167	DCCH	INITIAL_DIRECT_TRANSFER
					4365.	15:23:27.158	10740	21			14801.	UMTS FDD	Uplink	15:24:07.167	DCCH	LOCATION_UPDATING_REQUEST

Analysis:

- This call failure event occurred on short call at 15:24:06:924 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 setup fail, UE was latched with PSC 24 and RF condition RSCP -107.6dBm poor but ECNO -17.5 dB are very good.
- As per the Analysis the call setup failure event occurred due to poor coverage in the network.

Phase-1 Call Drop Analysis 1 MS9 Airtel MO

	Time	System	Serving band	Call type	1. best active RSCP	Time	Ch	SC	1. best active	Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	14:32:05.071	UMTS FDD	2100	Voice call	1577.	14:31:59.770	3050	104	-14	1448.	RRCSM	Downlink	14:32:04.812	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1578.	14:32:00.234	3050	104	-91.3	1449.	RRCSM	Downlink	14:32:04.832	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1579.	14:32:00.234	3050	104	-17	1450.	RRCSM	Downlink	14:32:04.852	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1580.	14:32:00.690	3050	405	-94.2	1451.	RRCSM	Downlink	14:32:04.852	BCCH	SCHEDULING_BLOCK_1
					1581.	14:32:00.690	3050	104	-16.3	1452.	RRCSM	Downlink	14:32:04.853	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_19
					1582.	14:32:01.088	3050	405	-94.2	1453.	RRCSM	Downlink	14:32:04.932	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1583.	14:32:01.088	3050	104	-16.3	1454.	RRCSM	Downlink	14:32:04.952	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1584.	14:32:01.230	3050	104	-94.1	1455.	RRCSM	Downlink	14:32:04.952	BCCH	MASTER_INFORMATION_BLOCK
					1585.	14:32:01.230	3050	104	-18.4	1456.	RRCSM	Downlink	14:32:04.953	BCCH_BCH	MASTER_INFORMATION_BLOCK
					1586.	14:32:01.273	3050	104	-94.1	1457.	RRCSM	Downlink	14:32:04.953	BCCH_BCH	SCHEDULING_BLOCK_1
					1587.	14:32:01.273	3050	104	-18.4	1458.	RRCSM	Downlink	14:32:04.953	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_1
					1588.	14:32:01.770	3050	104	-94.1	1459.	RRCSM	Downlink	14:32:04.953	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					1589.	14:32:01.770	3050	104	-18.4	1460.	RRCSM	Downlink	14:32:04.953	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_5
					1590.	14:32:01.804	3050	104	-94.1	1461.	RRCSM	Downlink	14:32:04.953	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_18
					1591.	14:32:01.804	3050	104	-18.4	1462.	RRCSM	Uplink	14:32:04.964	CCCH	CELL_UPDATE
					1592.	14:32:01.823	3050	104	-97.8	1463.	RRCSM	Downlink	14:32:04.972	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1593.	14:32:01.823	3050	104	-21.1	1464.	RRCSM	Downlink	14:32:04.992	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1594.	14:32:02.898	3050	305	-94.4	1465.	RRCSM	Downlink	14:32:05.012	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1595.	14:32:02.898	3050	305	-18.2	1466.	RRCSM	Downlink	14:32:05.012	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_12
					1596.	14:32:03.293	3050	104	-97.8	1467.	RRCSM	Downlink	14:32:05.032	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1597.	14:32:03.293	3050	104	-21.1	1468.	RRCSM	Downlink	14:32:05.032	BCCH	MASTER_INFORMATION_BLOCK
					1598.	14:32:04.234	3050	104	-97.8	1469.	RRCSM	Downlink	14:32:05.052	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1599.	14:32:04.234	3050	104	-21.1	1470.	RRCSM	Downlink	14:32:05.052	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					1600.	14:32:04.916	3050	104	-97.8	1471.	RRCSM	Downlink	14:32:05.052	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					1601.	14:32:04.916	3050	104	-21.1	1472.	RRCSM	Downlink	14:32:05.062	CCCH	RRR_CONNECTION_RELEASE_CCCH
					1602.	14:32:05.204	10588	104	-100.8	1473.	RRCSM	Downlink	14:32:05.192	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1603.	14:32:05.204	10588	104	-15.9	1474.	RRCSM	Downlink	14:32:05.192	BCCH	MASTER_INFORMATION_BLOCK
					1604.	14:32:05.576	10588	104	-98.7	1475.	RRCSM	Downlink	14:32:05.193	BCCH_BCH	MASTER_INFORMATION_BLOCK
					1605.	14:32:05.576	10588	104	-15.3	1476.	RRCSM	Downlink	14:32:05.193	BCCH_BCH	SCHEDULING_BLOCK_1
					1606.	14:32:06.058	10588	104	-96.7	1477.	RRCSM	Downlink	14:32:05.193	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_1
					1607.	14:32:06.058	10588	104	-10.3	1478.	RRCSM	Downlink	14:32:05.193	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					1608.	14:32:06.645	10588	104	-97.1	1479.	RRCSM	Downlink	14:32:05.193	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_5
					1609.	14:32:06.645	10588	104	-11.1	1480.	RRCSM	Downlink	14:32:05.193	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_18
					1610.	14:32:06.932	10588	104	-97.1	1481.	RRCSM	Downlink	14:32:05.272	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1611.	14:32:06.932	10588	104	-12.4	1482.	RRCSM	Downlink	14:32:05.272	BCCH	MASTER_INFORMATION_BLOCK
					1612.	14:32:07.638	10588	104	-94	1483.	RRCSM	Downlink	14:32:05.292	BCCH_BCH	SYSTEM_INFORMATION_BCH

- Analysis:**
- This call drop event occurred on MO side at 14:32:05:071 time when UE was latched with 3G network.
 - After getting Alerting message at 14:31:57:980 time Call drop happened.
 - During the call drop UE, was latched with PSC 104 and RF condition RSCP - 97.8 dBm is good but EC/NO -21.1 dB is poor.
 - As per the analysis call drop happened due to poor Poor Quality of the network.
 - Need to check with PSC 104 to improve the Quality of the network.

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

Call Attempt Failure cause from Airtel	Count
Total Call Attempt Failure	0

Call Attempt Failure cause from CWS	Count
Total Call Attempt Failure	1
Poor Quality	1

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 MS7 CWS MO

	Time	System	Serving band		T. best active RSCP	Time	Ch	SC	T. best ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	10:10:32.311	UMTS FDD	2100	Call	4763. -86.7	10:09:55.206	10690	20		14780.	L3SM	UMTS FDD	Downlink	10:10:26.141	DCCH	TMSI_REALLOCATION_COMMAND
					4764.	10:09:55.206	10690	20	-8.9	14781.	RRCSM	UMTS FDD	Uplink	10:10:26.141	DCCH	UPLINK_DIRECT_TRANSFER
					4765.	10:10:25.474	10690	20		14782.	L3SM	UMTS FDD	Uplink	10:10:26.141	DCCH	TMSI_REALLOCATION_COMPLETE
					4766.	10:10:25.474	10690	20	-11.8	14783.	RRCSM	UMTS FDD	Downlink	10:10:26.261	DCCH	DOWNLINK_DIRECT_TRANSFER
					4767.	10:10:26.045	10690	20		14784.	L3SM	UMTS FDD	Downlink	10:10:26.261	DCCH	CALL_PROCEEDING
					4768.	10:10:26.045	10690	20	-12.1	14785.	RRCSM	UMTS FDD	Uplink	10:10:26.047	DCCH	MEASUREMENT_REPORT
					4769.	10:10:26.509	10690	20		14786.	RRCSM	UMTS FDD	Uplink	10:10:26.903	DCCH	MEASUREMENT_REPORT
					4770.	10:10:26.509	10690	20	-17	14787.	RRCSM	UMTS FDD	Downlink	10:10:27.011	DCCH	ACTIVE_SET_UPDATE
					4771.	10:10:27.143	10690	31E		14788.	RRCSM	UMTS FDD	Uplink	10:10:27.022	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					4772.	10:10:27.143	10690	31E	-13	14789.	RRCSM	UMTS FDD	Downlink	10:10:27.111	DCCH	MEASUREMENT_CONTROL
					4773.	10:10:27.537	10690	31E		14790.	RRCSM	UMTS FDD	Downlink	10:10:27.141	DCCH	ACTIVE_SET_UPDATE
					4774.	10:10:27.537	10690	20	-9.4	14791.	RRCSM	UMTS FDD	Uplink	10:10:27.152	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					4775.	10:10:28.146	10690	24		14792.	RRCSM	UMTS FDD	Uplink	10:10:27.937	DCCH	MEASUREMENT_REPORT
					4776.	10:10:28.146	10690	20	-11.6	14793.	RRCSM	UMTS FDD	Downlink	10:10:28.091	DCCH	ACTIVE_SET_UPDATE
					4777.	10:10:28.653	10690	24		14794.	RRCSM	UMTS FDD	Uplink	10:10:28.112	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					4778.	10:10:28.653	10690	20	-12.5	14795.	RRCSM	UMTS FDD	Uplink	10:10:28.528	DCCH	MEASUREMENT_REPORT
					4779.	10:10:29.151	10690	20		14796.	RRCSM	UMTS FDD	Downlink	10:10:28.621	DCCH	ACTIVE_SET_UPDATE
					4780.	10:10:29.151	10690	20	-16.9	14797.	RRCSM	UMTS FDD	Uplink	10:10:28.653	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					4781.	10:10:29.780	10690	21		14798.	RRCSM	UMTS FDD	Downlink	10:10:30.101	DCCH	MEASUREMENT_CONTROL
					4782.	10:10:29.780	10690	20	-8.6	14799.	RRCSM	UMTS FDD	Uplink	10:10:30.467	DCCH	MEASUREMENT_REPORT
					4783.	10:10:30.328	10690	21		14800.	RRCSM	UMTS FDD	Downlink	10:10:30.611	DCCH	ACTIVE_SET_UPDATE
					4784.	10:10:30.328	10690	21	-8.4	14801.	RRCSM	UMTS FDD	Uplink	10:10:30.623	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					4785.	10:10:30.655	10690	21		14802.	RRCSM	UMTS FDD	Downlink	10:10:31.051	DCCH	DOWNLINK_DIRECT_TRANSFER
					4786.	10:10:30.655	10690	21	-10.1	14803.	L3SM	UMTS FDD	Downlink	10:10:31.051	DCCH	AUTHENTICATION_AND_CIPHERING_REQUEST
					4787.	10:10:31.345	10690	20		14804.	RRCSM	UMTS FDD	Uplink	10:10:31.089	DCCH	UPLINK_DIRECT_TRANSFER
					4788.	10:10:31.345	10690	20	-11.3	14805.	L3SM	UMTS FDD	Uplink	10:10:31.089	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE
					4789.	10:10:31.739	10690	20		14806.	RRCSM	UMTS FDD	Downlink	10:10:31.341	DCCH	SECURITY_MODE_COMMAND
					4790.	10:10:31.739	10690	20	-8.6	14807.	RRCSM	UMTS FDD	Uplink	10:10:31.341	DCCH	SECURITY_MODE_COMPLETE
					4791.	10:10:32.424	10690	31E		14808.	RRCSM	UMTS FDD	Downlink	10:10:31.721	DCCH	DOWNLINK_DIRECT_TRANSFER
					4792.	10:10:32.424	10690	20	-10.3	14809.	L3SM	UMTS FDD	Downlink	10:10:31.721	DCCH	ROUTING_AREA_UPDATE_ACCEPT
					4793.	10:10:32.918	10690	21		14810.	RRCSM	UMTS FDD	Uplink	10:10:31.724	DCCH	UPLINK_DIRECT_TRANSFER
					4794.	10:10:32.918	10690	21	-10.1	14811.	L3SM	UMTS FDD	Uplink	10:10:31.724	DCCH	ROUTING_AREA_UPDATE_COMPLETE
					4795.	10:10:33.453	10690	31E		14812.	RRCSM	UMTS FDD	Downlink	10:10:32.311	DCCH	DOWNLINK_DIRECT_TRANSFER
					4796.	10:10:33.453	10690	31E	-13.1	14813.	L3SM	UMTS FDD	Downlink	10:10:32.311	DCCH	DISCONNECT
					4797.	10:10:33.955	10690	31E		14814.	RRCSM	UMTS FDD	Uplink	10:10:32.312	DCCH	UPLINK_DIRECT_TRANSFER
					4798.	10:10:33.955	10690	31E	-8.2	14815.	L3SM	UMTS FDD	Uplink	10:10:32.312	DCCH	RELEASE
					4799.	10:10:34.287	10690	31E		14816.	RRCSM	UMTS FDD	Downlink	10:10:32.421	DCCH	DOWNLINK_DIRECT_TRANSFER

Analysis:

- This call failure event occurred on short call at 10:10:32:311 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 setup fail, UE was latched with PSC 21 and RF condition RSCP -75.2 dBm and Ec/No -8.4 dB are very good.
- Need to check MT End.

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

	1. best active RSCP	Time	Ch	SC	1. best ▲	Event ID	System	Transf. dir.	Time	Subchannel	Message name	
3928.	-83.5	10:09:53.168	10690	20		14793.	RRCSM	UMTS FDD	Downlink	10:10:31.719	BCCH_BCH	SYSTEM_INFORMATION_BCH
3929.		10:09:53.168	10690	20	-8.6	14794.	RRCSM	UMTS FDD	Downlink	10:10:31.719	BCCH	MASTER_INFORMATION_BLOCK
3930.	-79.7	10:09:53.668	10690	20		14795.	RRCSM	UMTS FDD	Downlink	10:10:31.719	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
3931.		10:09:53.668	10690	20	-6.4	14796.	RRCSM	UMTS FDD	Downlink	10:10:31.739	BCCH_BCH	SYSTEM_INFORMATION_BCH
3932.	-83.3	10:09:54.254	10690	20		14797.	RRCSM	UMTS FDD	Downlink	10:10:31.759	BCCH_BCH	SYSTEM_INFORMATION_BCH
3933.		10:09:54.254	10690	20	-8.1	14798.	RRCSM	UMTS FDD	Downlink	10:10:31.779	BCCH_BCH	SYSTEM_INFORMATION_BCH
3934.	-78.2	10:09:54.944	10690	20		14799.	RRCSM	UMTS FDD	Downlink	10:10:31.799	BCCH_BCH	SYSTEM_INFORMATION_BCH
3935.		10:09:54.944	10690	20	-7.1	14800.	RRCSM	UMTS FDD	Downlink	10:10:31.799	BCCH	MASTER_INFORMATION_BLOCK
3936.	-89.1	10:09:55.458	10690	316		14801.	RRCSM	UMTS FDD	Downlink	10:10:31.799	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
3937.		10:09:55.458	10690	316	-13.9	14802.	RRCSM	UMTS FDD	Downlink	10:10:31.813	CCCH	RRC_CONNECTION_SETUP
3938.	-94	10:10:29.644	10690	21		14803.	RRCSM	UMTS FDD	Uplink	10:10:31.870	DCCH	RRC_CONNECTION_SETUP_COMPLETE
3939.		10:10:29.644	10690	21	-15.2	14804.	RRCSM	UMTS FDD	Uplink	10:10:31.870	DCCH	INITIAL_DIRECT_TRANSFER
3940.	-94	10:10:30.048	10690	21		14805.	L3SM	UMTS FDD	Uplink	10:10:31.870	DCCH	LOCATION_UPDATING_REQUEST
3941.		10:10:30.048	10690	21	-13.8	14806.	RRCSM	UMTS FDD	Downlink	10:10:32.173	DCCH	MEASUREMENT_CONTROL
3942.	-94	10:10:30.545	10690	21		14807.	RRCSM	UMTS FDD	Downlink	10:10:32.193	DCCH	DOWNLINK_DIRECT_TRANSFER
3943.		10:10:30.545	10690	21	-9.8	14808.	L3SM	UMTS FDD	Downlink	10:10:32.193	DCCH	IDENTITY_REQUEST
3944.	-94	10:10:30.999	10690	21		14809.	RRCSM	UMTS FDD	Uplink	10:10:32.193	DCCH	UPLINK_DIRECT_TRANSFER
3945.		10:10:30.999	10690	21	-11.8	14810.	L3SM	UMTS FDD	Uplink	10:10:32.193	DCCH	IDENTITY_RESPONSE
3946.	-94	10:10:31.604	10690	21		14811.	RRCSM	UMTS FDD	Downlink	10:10:32.303	DCCH	DOWNLINK_DIRECT_TRANSFER
3947.		10:10:31.604	10690	21	-14.9	14812.	L3SM	UMTS FDD	Downlink	10:10:32.303	DCCH	IDENTITY_REQUEST
3948.	-94	10:10:32.304	10690	21		14813.	RRCSM	UMTS FDD	Uplink	10:10:32.303	DCCH	UPLINK_DIRECT_TRANSFER
3949.		10:10:32.304	10690	21	-13	14814.	L3SM	UMTS FDD	Uplink	10:10:32.303	DCCH	IDENTITY_RESPONSE
3950.	-78.8	10:10:32.866	10690	20		14815.	RRCSM	UMTS FDD	Uplink	10:10:32.417	DCCH	MEASUREMENT_REPORT
3951.		10:10:32.866	10690	20	-11	14816.	RRCSM	UMTS FDD	Uplink	10:10:32.467	DCCH	MEASUREMENT_REPORT
3952.	-86.1	10:10:33.239	10690	20		14817.	RRCSM	UMTS FDD	Downlink	10:10:32.603	DCCH	ACTIVE_SET_UPDATE
3953.		10:10:33.239	10690	20	-15.3	14818.	RRCSM	UMTS FDD	Uplink	10:10:32.614	DCCH	ACTIVE_SET_UPDATE_COMPLETE
3954.	-88.5	10:10:33.987	10690	20		14819.	RRCSM	UMTS FDD	Downlink	10:10:32.713	DCCH	SECURITY_MODE_COMMAND
3955.		10:10:33.987	10690	20	-16.2	14820.	RRCSM	UMTS FDD	Uplink	10:10:32.713	DCCH	SECURITY_MODE_COMPLETE
3956.	-89.1	10:10:34.192	10690	20		14821.	RRCSM	UMTS FDD	Downlink	10:10:32.823	DCCH	MEASUREMENT_CONTROL
3957.		10:10:34.192	10690	20	-17	14822.	RRCSM	UMTS FDD	Downlink	10:10:32.843	DCCH	DOWNLINK_DIRECT_TRANSFER
3958.	-79.8	10:10:34.987	10690	20		14823.	L3SM	UMTS FDD	Downlink	10:10:32.843	DCCH	LOCATION_UPDATING_ACCEPT
3959.		10:10:34.987	10690	20	-14.2	14824.	RRCSM	UMTS FDD	Uplink	10:10:32.844	DCCH	UPLINK_DIRECT_TRANSFER
3960.	-82.6	10:10:35.259	10690	20		14825.	L3SM	UMTS FDD	Uplink	10:10:32.844	DCCH	TMSI_REALLOCATION_COMPLETE
3961.		10:10:35.259	10690	20	-15.3	14826.	RRCSM	UMTS FDD	Downlink	10:10:33.023	DCCH	RRC_CONNECTION_RELEASE
3962.	-88	10:10:35.639	10690	20		14827.	RRCSM	UMTS FDD	Uplink	10:10:33.023	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
3963.		10:10:35.639	10690	20	-12.9	14828.	RRCSM	UMTS FDD	Uplink	10:10:33.064	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
3964.	-85.4	10:10:36.443	10690	20		14829.	RRCSM	UMTS FDD	Downlink	10:10:33.239	BCCH_BCH	SYSTEM_INFORMATION_BCH

Analysis:

- On MT End, During the setup fail, UE was latched with PSC 21 and RF condition RSCP -94 dBm is ok and Ec/No -15.2 dB which is poor.
- As per the Analysis the call setup failure event occurred due to poor quality in the network.

THANKS