

Seychelles Test Drive

Glacis Phase-2 Report



Phase-1 Dates- 03rd Oct 2024



Route Name: Mahe

District Name: Glacis

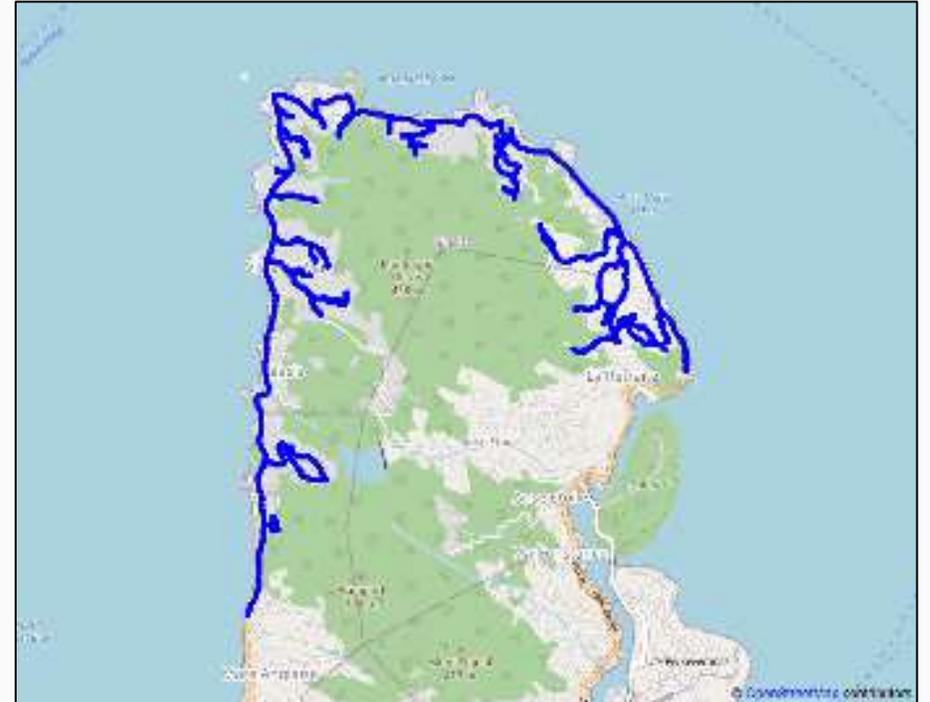
Region: Northern

Island: Mahé

Drive Test Distance: 33.87 kms

Drive Test Duration: 02 hours,07 minutes,48 seconds

Phase-2 Dates- 18th Oct 2024



Route Name: Mahe

District Name: Glacis

Region: Northern

Island: Mahé

Drive Test Distance: 33.31 kms

Drive Test Duration: 01 hours,51 minutes,10 seconds

Phase-1**Short Call Findings:**

- The Call Setup Success Rate for Airtel is (99.39%), while for Operator CWS it is (98.11%).
- The Call Setup Time for Airtel is (6.31s) , while for Operator CWS it is (7.27s)

Long Call Findings :

- The Call Retainability for Airtel is (97.62%), while for CWS it is (95.12%).
- The MOS quality observed for Airtel is (3.12), and for CWS, it is (3.41).

Phase-2**Short Call Findings:**

- The Call Setup Success Rate for Airtel is (99.29%), while for Operator CWS it is (97.74%).
- The Call Setup Time for Airtel is (6.25s), while for Operator CWS it is (8.26s)

Long Call Findings :

- The Call Retainability for Airtel is (97.22%), while for CWS it is (97.22%).
- The MOS quality observed for Airtel is (3.16), and for CWS, it is (3.34).

Phase-1

4G Preferred Data Findings:

- Airtel SFTP DL is (13.08 Mbps), while SFTP UL is (5.38 Mbps), CWS SFTP DL is (5.59 Mbps), while SFTP UL is (4.07 Mbps)
- Airtel HTTP DL is (17.52 Mbps), HTTP Capacity DL is (45.41 Mbps) ,HTTP UL is (9.60 Mbps) , and HTTP Capacity UL is (20.46 Mbps).
- CWS HTTP DL is (8.77 Mbps), HTTP Capacity DL is (34.72 Mbps) ,HTTP UL is (8.40 Mbps) , and HTTP Capacity UL is (22.73 Mbps).
- On live web page testing for browsing, www.shein.com took (6.98s), www.nbs.gov.sc took (17.82s), and www.sbc.sc took (16.97s) on Airtel.
- On live web page testing for browsing, www.shein.com took (6.81s), www.nbs.gov.sc took (15.86s), and www.sbc.sc took (15.09s) on CWS.
- On static browsing, Kepler Webpage took (3.96s), and Kepler Mobile took (1.79s) on Airtel.
- On static browsing, Kepler Webpage took (4.66s), and Kepler Mobile took (2.75s) on CWS.
- YouTube average resolution in Airtel is (1044.94) pixels.
- YouTube average resolution in CWS is (1040.66) pixels.
- Airtel scored 64.95% in Carrier Aggregation (CA).
- CWS scored 18.59% in Carrier Aggregation (CA).

Phase-2

4G Preferred Data Findings:

- Airtel SFTP DL is (12.66 Mbps), while SFTP UL is (5.07 Mbps), CWS SFTP DL is (6.69 Mbps), while SFTP UL is (3.97 Mbps)
- Airtel HTTP DL is (16.40 Mbps), HTTP Capacity DL is (42.09 Mbps) ,HTTP UL is (7.90 Mbps) , and HTTP Capacity UL is (19.82 Mbps).
- CWS HTTP DL is (7.85 Mbps), HTTP Capacity DL is (29.84 Mbps) ,HTTP UL is (7.31 Mbps) , and HTTP Capacity UL is (18.43 Mbps).
- On live web page testing for browsing, www.shein.com took (6.45s), www.nbs.gov.sc took (18.68s), and www.sbc.sc took (20.27s) on Airtel.
- On live web page testing for browsing, www.shein.com took (6.11s), www.nbs.gov.sc took (16.80s), and www.sbc.sc took (15.36s) on CWS.
- On static browsing, Kepler Webpage took (4.19s), and Kepler Mobile took (1.80s) on Airtel.
- On static browsing, Kepler Webpage took (5.22s), and Kepler Mobile took (2.77s) on CWS.
- YouTube average resolution in Airtel is (1080.00) pixels.
- YouTube average resolution in CWS is (1080.00) pixels.
- Airtel scored 63.49% in Carrier Aggregation (CA).
- CWS scored 14.80% in Carrier Aggregation (CA).

Phase-1

3G Preferred Data Test Findings:

- Airtel SFTP DL is (3.77 Mbps), while SFTP UL is (1.46 Mbps), CWS SFTP DL is (3.15 Mbps), while SFTP UL is (1.06 Mbps)
- Airtel HTTP DL is (3.30 Mbps), HTTP Capacity DL is (6.91 Mbps) ,HTTP UL is (2.25 Mbps) , and HTTP Capacity UL is (4.80 Mbps).
- CWS HTTP DL is (3.29 Mbps), HTTP Capacity DL is (6.14 Mbps) ,HTTP UL is (1.97 Mbps) , and HTTP Capacity UL is (4.56 Mbps).
- On live web page testing for browsing, www.shein.com took (11.03s), www.nbs.gov.sc took (12.75s), and www.sbc.sc took (15.39s) on Airtel.
- On live web page testing for browsing, www.shein.com took (14.42s), www.nbs.gov.sc took (7.70s), and www.sbc.sc took (9.91s) on CWS.
- On static browsing, Kepler Webpage took (4.08s), and Kepler Mobile took (1.75s) on Airtel.
- On static browsing, Kepler Webpage took (5.73s), and Kepler Mobile took (2.26s) on CWS.
- YouTube average resolution in Airtel is (907.66) pixels.
- YouTube average resolution in CWS is (961.93) pixels.

Phase-2

3G Preferred Data Test Findings:

- Airtel SFTP DL is (4.99 Mbps), while SFTP UL is (1.57 Mbps), CWS SFTP DL is (2.67 Mbps), while SFTP UL is (0.98 Mbps)
- Airtel HTTP DL is (5.15 Mbps), HTTP Capacity DL is (6.43 Mbps) ,HTTP UL is (2.20 Mbps) , and HTTP Capacity UL is (4.53 Mbps).
- CWS HTTP DL is (3.34 Mbps), HTTP Capacity DL is (5.73 Mbps) ,HTTP UL is (2.31 Mbps) , and HTTP Capacity UL is (5.00 Mbps).
- On live web page testing for browsing, www.shein.com took (8.92s), www.nbs.gov.sc took (13.27s), and www.sbc.sc took (12.76s) on Airtel.
- On live web page testing for browsing, www.shein.com took (7.96s), www.nbs.gov.sc took (9.03s), and www.sbc.sc took (10.63s) on CWS.
- On static browsing, Kepler Webpage took (4.70s), and Kepler Mobile took (2.19s) on Airtel.
- On static browsing, Kepler Webpage took (5.92s), and Kepler Mobile took (2.49s) on CWS.
- YouTube average resolution in Airtel is (1043.32) pixels.
- YouTube average resolution in CWS is (1080.00) 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	163	159
Call Failed	1	3
Call Connected	162	156
CSSR[%]	99.39	98.11
USCSR[%]	0.61	1.89
CST [s] Alerting	6.31	7.27
CST [s]Connected	6.57	7.45

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)	6.31	7.26	1	2
CS calls CST (until ringing/alerting)	7.12	7.83	1	2
CSFB calls CST (until ringing/alerting)	6.24	7.25	1	2
Overall CST (until Connect/Connect Acknowledge)	6.57	7.45	1	2
CS calls CST (until Connect/Connect Acknowledge)	7.36	7.92	1	2
CSFB calls CST (until Connect/Connect Acknowledge)	6.50	7.44	1	2

Phase-2

Short Call Statistics		
Short Call Scenario	Operator 1	Operator 2
Voice KPIs	Airte	CWS
Call Attempt	141	133
Call Failed	1	3
Call Connected	140	130
CSSR[%]	99.29	97.74
USCSR[%]	0.71	2.26
CST [s] Alerting	6.35	8.26
CST [s]Connected	6.63	8.42

Call Setup Time (s)	Operators		Rank	
	Airtel	CWS	Airtel	CWS
Overall CST (until ringing/alerting)	6.35	8.26	1	2
CS calls CST (until ringing/alerting)	6.92	8.41	1	2
CSFB calls CST (until ringing/alerting)	6.29	8.26	1	2
Overall CST (until Connect/Connect Acknowledge)	6.63	8.42	1	2
CS calls CST (until Connect/Connect Acknowledge)	7.19	8.51	1	2
CSFB calls CST (until Connect/Connect Acknowledge)	6.58	8.42	1	2

Phase-1

Long Call Statistics				
Long Call Scenario	Operator 1		Operator 2	
Voice KPIs	Airtel		CWS	
Call Connected	42		41	
Call Dropped	1		2	
Call Completed	41		39	
CRR[%]	97.62		95.12	
DCR[%]	2.38		4.88	
MOS	3.12		3.41	
	Airtel short call	CWS short call	Airtel long call	CWS long call
CSFB Calls	150	156	36	40
CS Calls	13	3	6	1
Handover Statistics		Airtel MO	CWS MO	
Handover Attempt		40	140	
Handover Failure		0	3	
Handover Success		40	137	
HOSR %		100.00	97.86	

Phase-2

Long Call Statistics				
Long Call Scenario	Operator 1		Operator 2	
Voice KPIs	Airte		CWS	
Call Connected	36		36	
Call Dropped	1		1	
Call Completed	35		35	
CRR[%]	97.22		97.22	
DCR[%]	2.78		2.78	
MOS	3.16		3.34	
	Airtel short call	CWS short call	Airtel long call	CWS long call
CSFB Calls	129	131	30	35
CS Calls	12	2	6	1
Handover Statistics		Airtel MO	CWS MO	
Handover Attempt		32	133	
Handover Failure		0	1	
Handover Success		32	132	
HOSR %		100.00	99.25	

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)	13.08	5.59	1	2	12.66	6.69	1	2
	SFTP UL(Mbps)	5.38	4.07	1	2	5.07	3.97	1	2
	HTTP DL(Mbps)	17.52	8.77	1	2	16.40	7.85	1	2
	HTTP UL(Mbps)	9.6	8.4	1	2	7.90	7.31	1	2
	HTTP Capacity DL(Mbps)	45.41	34.72	1	2	42.09	29.84	1	2
	HTTP Capacity UL(Mbps)	20.46	22.73	2	1	19.82	18.43	1	2
BROWSER	Overall Browser DL Time (s)	9.43	8.98	2	1	10.45	9.19	2	1
	Kepler Webpage DL Time (s)	3.96	4.66	1	2	4.19	5.22	1	2
	Mobile Kepler Webpage DL Time (s)	1.79	2.75	1	2	1.80	2.77	1	2
	www.shein.com Webpage DL Time (s)	6.98	6.81	2	1	6.45	6.11	2	1
	www.nbs.gov.sc Webpage DL Time (s)	17.82	15.86	2	1	18.68	16.80	2	1
	www.sbc.sc Webpage DL Time (s)	16.97	15.09	2	1	20.27	15.36	2	1
LATENCY	Avg Latency (ms)	270.73	254.89	2	1	281.25	271.69	2	1
	Median Latency (ms)	290	203.5	2	1	389	223	2	1
YOUTUBE	YouTube Access Time (s)	5.33	1.7	2	1	5.31	1.47	2	1
	YouTube Average Resolution (pixels)	1044.94	1040.66	1	2	1080.00	1080.00	1	1
	YouTube Success Ratio [%]	100	95.83	1	2	100.00	100.00	1	1

Phase-1

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
SFTP DL	Success	26	24	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	26	25	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP DL	Success	26	24	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	24	24	92.31	100.00
	Failure	2	0	7.69	0.00
HTTP Capacity DL	Success	24	24	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	22	23	91.67	100.00
	Failure	2	0	8.33	0.00

Phase-2

Test Type	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
SFTP DL	Success	21	20	100.00	95.24
	Failure	0	1	0.00	4.76
SFTP UL	Success	20	20	95.24	100.00
	Failure	1	0	4.76	0.00
HTTP DL	Success	20	21	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	21	21	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity DL	Success	20	20	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	20	20	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	25	24	100.00	100.00
	Failure	0	0	0.00	0.00
Mobile Kepler	Success	24	24	100.00	100.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	25	24	100.00	100.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	24	24	96.00	100.00
	Failure	1	0	4.00	0.00
www.sbc.sc	Success	24	23	100.00	95.83
	Failure	0	1	0.00	4.17

Phase-2

Web Page	Status	Airtel 4G	CWS 4G	Airtel 4G (%)	CWS 4G (%)
Kepler	Success	18	21	85.71	100.00
	Failure	3	0	14.29	0.00
Mobile Kepler	Success	21	20	100.00	100.00
	Failure	0	0	0.00	0.00
www.shein.com	Success	21	21	100.00	100.00
	Failure	0	0	0.00	0.00
www.nbs.gov.sc	Success	21	21	100.00	100.00
	Failure	0	0	0.00	0.00
www.sbc.sc	Success	21	19	100.00	90.48
	Failure	0	2	0.00	9.52

Phase-1

	Latency KPIs	Airtel 4G	CWS 4G
Overall Latency	Sample Count [32 bytes]	49	44
	Average Latency [ms]	267.49	254.70
	Median Latency [ms]	205	195
	Ping session status: Successful	49	44
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	2
	Packet Loss<1%	0.00	4.35
www.google.com	Average Latency [ms]	409.21	213.67
	Median Latency [ms]	407	162
	Ping session status: Successful	24	22
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	2
	Packet Loss<1%	0.00	8.33
102.133.176.104	Average Latency [ms]	131.44	293.86
	Median Latency [ms]	127	256
	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

Phase-2

	Latency KPIs	Airtel 4G	CWS 4G
Overall Latency	Sample Count [32 bytes]	42	27
	Average Latency [ms]	288.21	260.62
	Median Latency [ms]	390	220
	Ping session status: Successful	42	27
	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]	404.57	239.65
	Median Latency [ms]	401	171
	Ping session status: Successful	21	20
	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]	171.86	281.59
	Median Latency [ms]	127	243
	Ping session status: Successful	21	17
	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)	25	24
Success(Count)	25	23
Failure(Count)	0	1
YouTube Access Time (s)	5.33	1.70
YouTube Average Resolution (pixels)	1044.94	1040.66
YouTube Success Ratio [%]	100.00	95.83

Phase-2

LTE YOUTUBE Success Ratio		
KPIs	Airtel 4G	CWS 4G
Attempt(Count)	21	21
Success(Count)	21	21
Failure(Count)	0	0
YouTube Access Time (s)	5.31	1.47
YouTube Average Resolution (pixels)	1080.00	1080.00
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)	3.77	3.15	1	2	4.99	2.67	1	2
	SFTP UL(Mbps)	1.46	1.06	1	2	1.57	0.98	1	2
	HTTP DL(Mbps)	3.3	3.29	1	2	5.15	3.34	1	2
	HTTP UL(Mbps)	2.25	1.97	1	2	2.20	2.31	2	1
	HTTP Capacity DL(Mbps)	6.91	6.14	1	2	6.43	5.73	1	2
	HTTP Capacity UL(Mbps)	4.8	4.56	1	2	4.53	5.00	2	1
BROWSER	Overall Browser DL Time (s)	9.07	8	2	1	8.48	7.13	2	1
	Kepler Webpage DL Time (s)	4.08	5.73	1	2	4.70	5.92	1	2
	Mobile Kepler Webpage DL Time (s)	1.75	2.26	1	2	2.19	2.49	1	2
	www.shein.com Webpage DL Time (s)	11.03	14.42	1	2	8.92	7.96	2	1
	www.nbs.gov.sc Webpage DL Time (s)	12.75	7.7	2	1	13.27	9.03	2	1
	www.sbc.sc Webpage DL Time (s)	15.39	9.91	2	1	12.76	10.63	2	1
LATENCY	Avg Latency (ms)	271.6	177.84	2	1	286.51	202.86	2	1
	Median Latency (ms)	218	193	2	1	320	199	2	1
YOUTUBE	YouTube Access Time (s)	3.91	6.55	1	2	4.27	3.09	2	1
	YouTube Average Resolution (pixels)	907.66	961.93	2	1	1043.32	1080.00	2	1
	YouTube Success Ratio [%]	95.24	90	1	2	94.44	82.35	1	2

Phase-1

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	19	15	95.00	88.24
	Failure	1	2	5.00	11.76
SFTP UL	Success	19	16	90.48	100.00
	Failure	2	0	9.52	0.00
HTTP DL	Success	21	17	100.00	85.00
	Failure	0	3	0.00	15.00
HTTP UL	Success	21	17	100.00	85.00
	Failure	0	3	0.00	15.00
HTTP Capacity DL	Success	20	17	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	18	17	94.74	94.44
	Failure	1	1	5.26	5.56

Phase-2

Test Type	Status	Airtel 3G	CWS 3G	Airtel 3G (%)	CWS 3G (%)
SFTP DL	Success	15	15	100.00	100.00
	Failure	0	0	0.00	0.00
SFTP UL	Success	13	16	86.67	100.00
	Failure	2	0	13.33	0.00
HTTP DL	Success	16	14	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP UL	Success	15	14	88.24	82.35
	Failure	2	3	11.76	17.65
HTTP Capacity DL	Success	15	16	100.00	100.00
	Failure	0	0	0.00	0.00
HTTP Capacity UL	Success	14	12	87.50	75.00
	Failure	2	4	12.50	25.00

Phase-1

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Kepler	Success	18	14	85.71	77.78
	Failure	3	4	14.29	22.22
Mobile Kepler	Success	20	15	100.00	88.24
	Failure	0	2	0.00	11.76
www.shein.com	Success	19	15	90.48	83.33
	Failure	2	3	9.52	16.67
www.nbs.gov.sc	Success	20	17	95.24	89.47
	Failure	1	2	4.76	10.53
www.sbc.sc	Success	20	14	100.00	82.35
	Failure	0	3	0.00	17.65

Phase-2

Web Page	Status	Airtel 3G	CWS 3G	Airtel 3G(%)	CWS 3G (%)
Kepler	Success	14	12	87.50	75.00
	Failure	2	4	12.50	25.00
Mobile Kepler	Success	15	15	100.00	93.75
	Failure	0	1	0.00	6.25
www.shein.com	Success	15	13	88.24	92.86
	Failure	2	1	11.76	7.14
www.nbs.gov.sc	Success	16	15	94.12	100.00
	Failure	1	0	5.88	0.00
www.sbc.sc	Success	15	13	88.24	86.67
	Failure	2	2	11.76	13.33

Phase-1

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	39	31
	Average Latency [ms]	277.03	177.97
	Median Latency [ms]	394	153
	Ping session status: Successful	39	31
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	2	2
	Packet Loss<1%	4.88	6.06
www.google.com	Average Latency [ms]	419.65	140.40
	Median Latency [ms]	407	139
	Ping session status: Successful	20	16
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	1
	Packet Loss<1%	0.00	5.88
102.133.176.104	Average Latency [ms]	126.89	215.53
	Median Latency [ms]	118	202
	Ping session status: Successful	19	15
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	2	1
	Packet Loss<1%	9.52	6.25

Phase-2

	Latency KPIs	Airtel 3G	CWS 3G
Overall Latency	Sample Count [32 bytes]	31	29
	Average Latency [ms]	296.35	199.28
	Median Latency [ms]	398	199
	Ping session status: Successful	31	29
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	2
	Packet Loss<1%	0.00	6.45
www.google.com	Average Latency [ms]	428.67	151.79
	Median Latency [ms]	418	140
	Ping session status: Successful	15	14
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	1
	Packet Loss<1%	0.00	6.67
102.133.176.104	Average Latency [ms]	172.31	243.60
	Median Latency [ms]	128	214
	Ping session status: Successful	16	15
	Ping session status: Failed [Socket error]	0	0
	Ping session status: Failed [Protocol error timeout]	0	1
	Packet Loss<1%	0.00	6.25

Phase-1

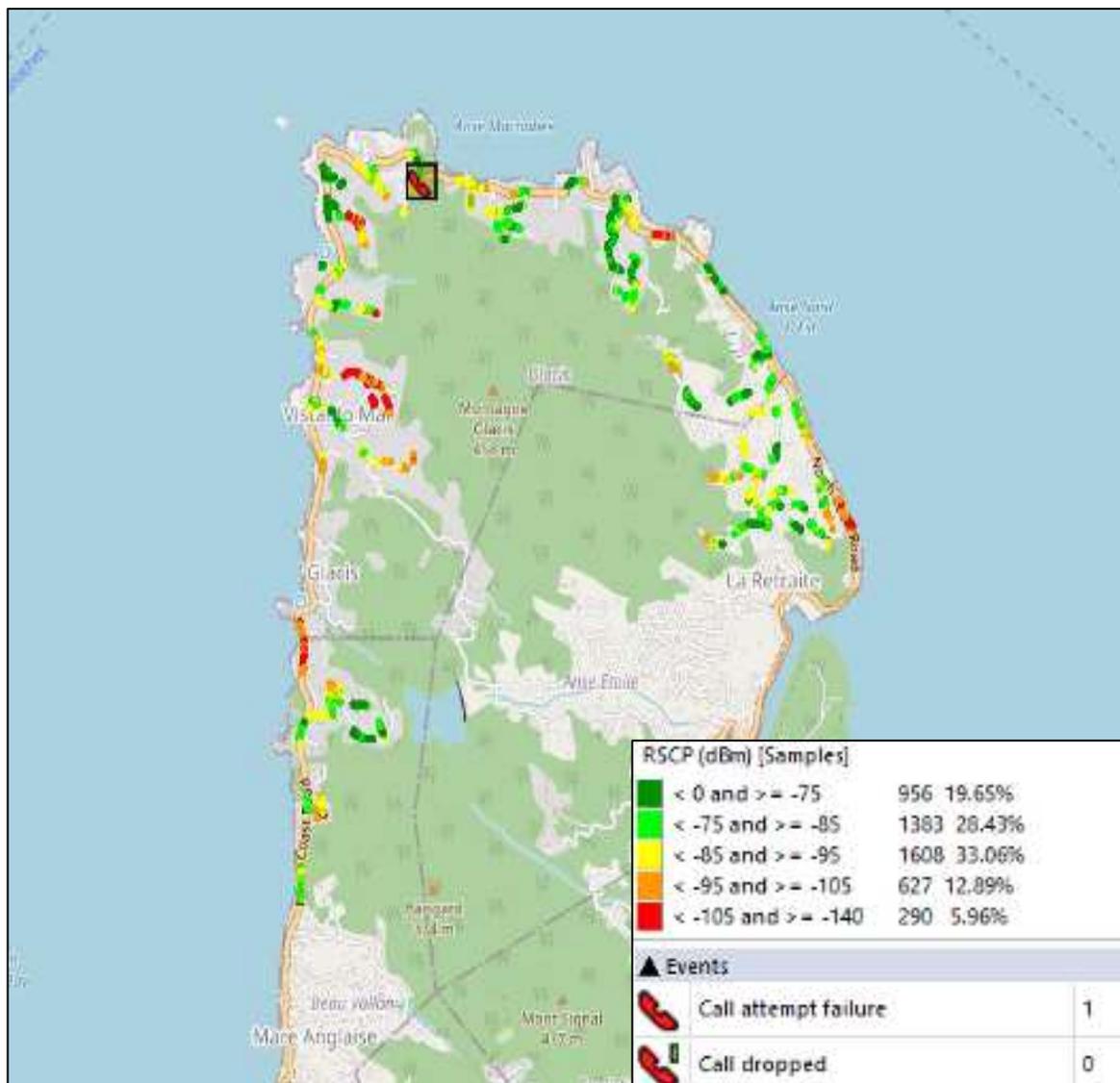
UMTS YOUTUBE Success Ratio		
KPIs	Airtel 3G	CWS 3G
Attempt(Count)	21	20
Success(Count)	20	18
Failure(Count)	1	2
YouTube Access Time (s)	3.91	6.55
YouTube Average Resolution (pixels)	907.66	961.93
YouTube Success Ratio [%]	95.24	90.00

Phase-2

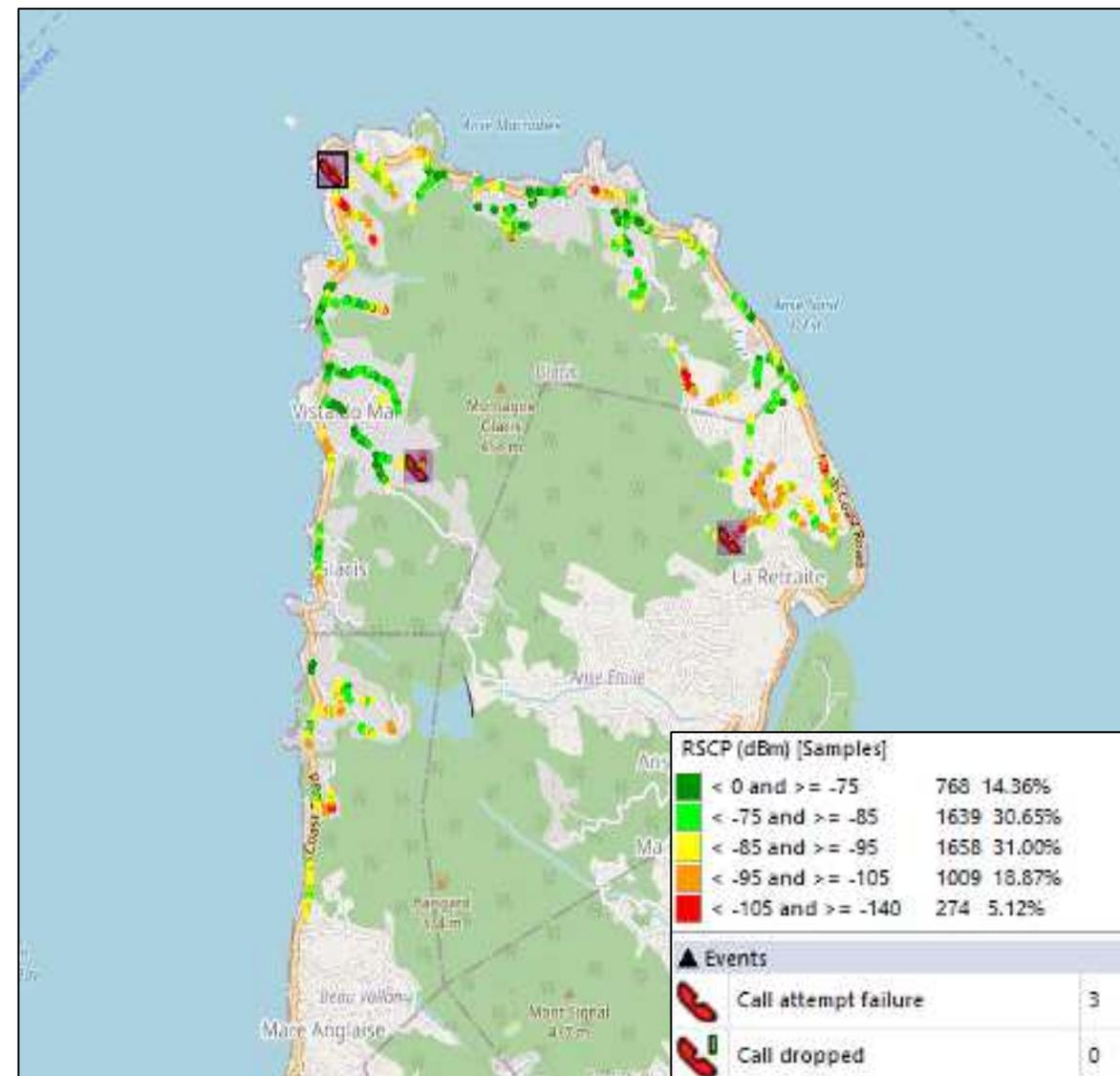
UMTS YOUTUBE Success Ratio		
KPIs	Airtel 3G	CWS 3G
Attempt(Count)	18	17
Success(Count)	17	14
Failure(Count)	1	3
YouTube Access Time (s)	4.27	3.09
YouTube Average Resolution (pixels)	1043.32	1080.00
YouTube Success Ratio [%]	94.44	82.35

Voice Call Events

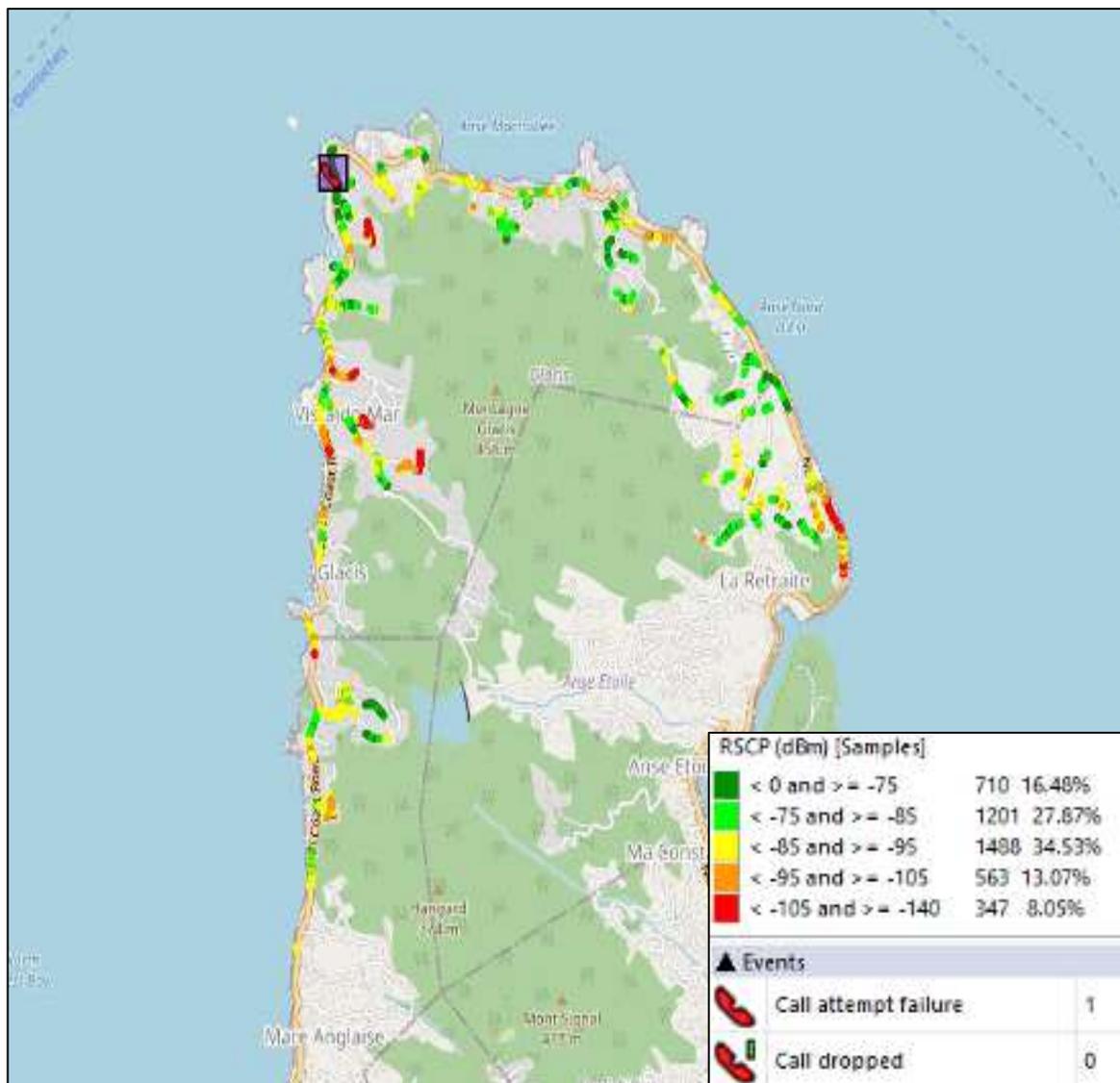
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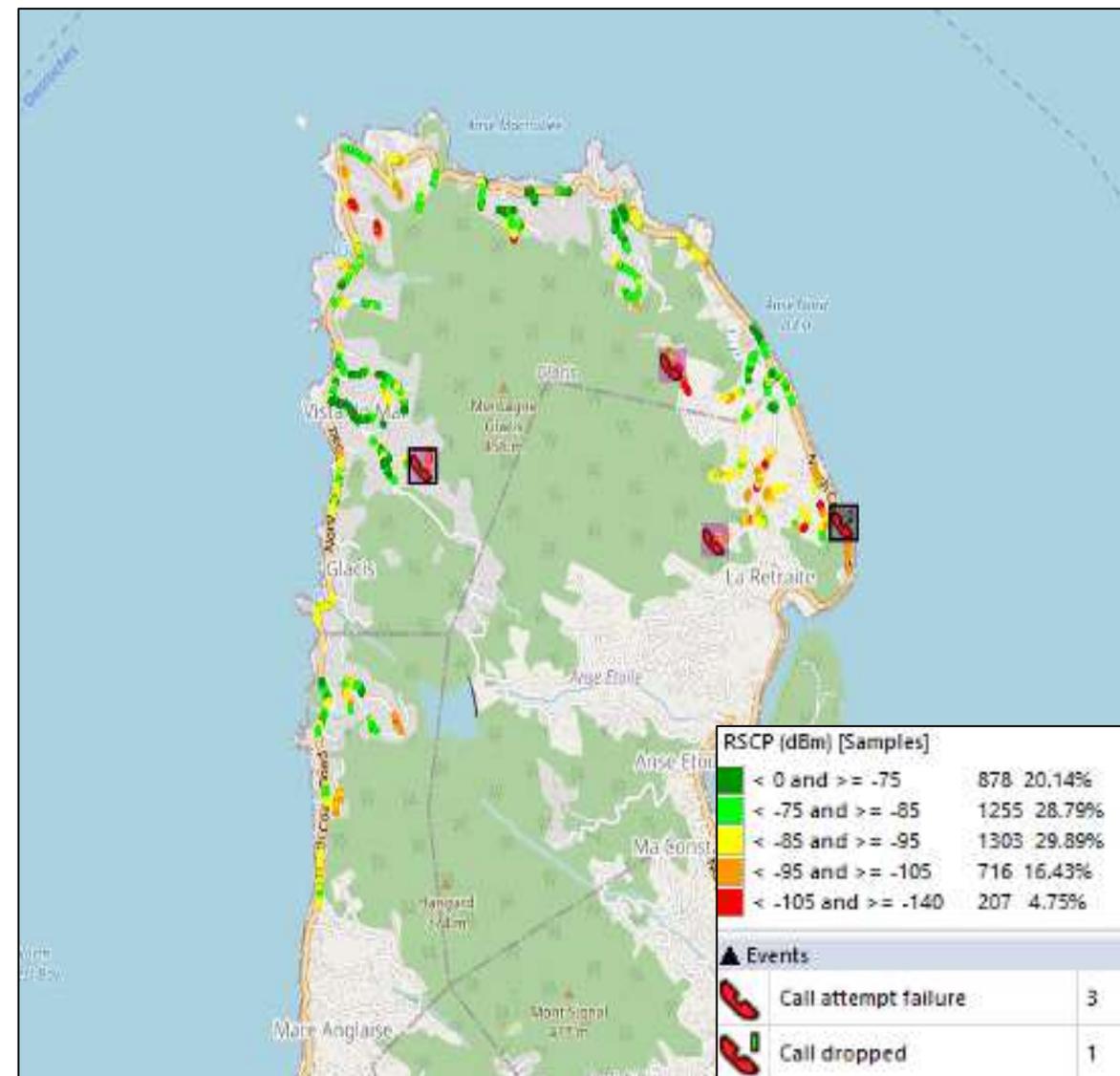
CWS SC MO



Airtel SC MO

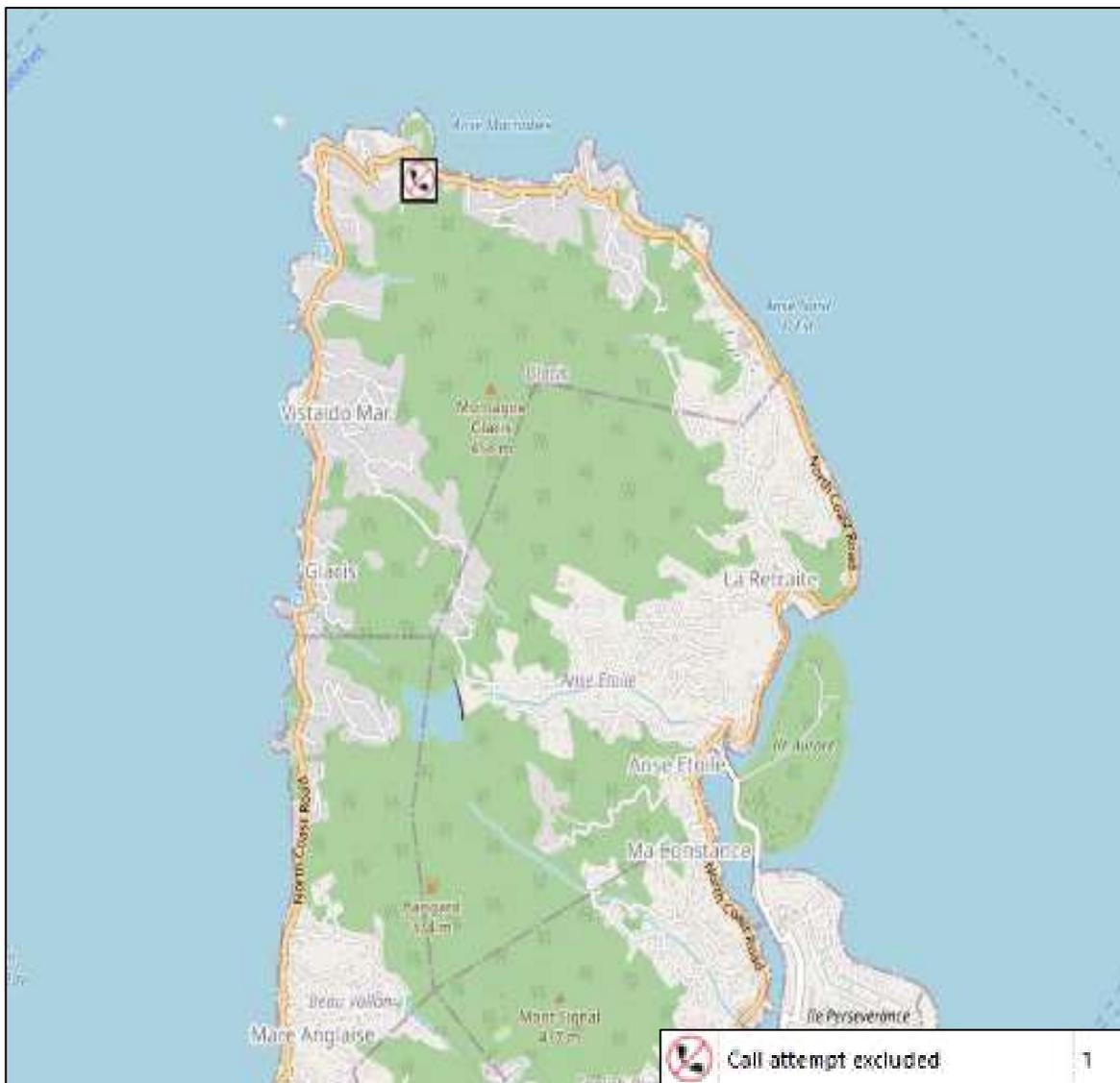


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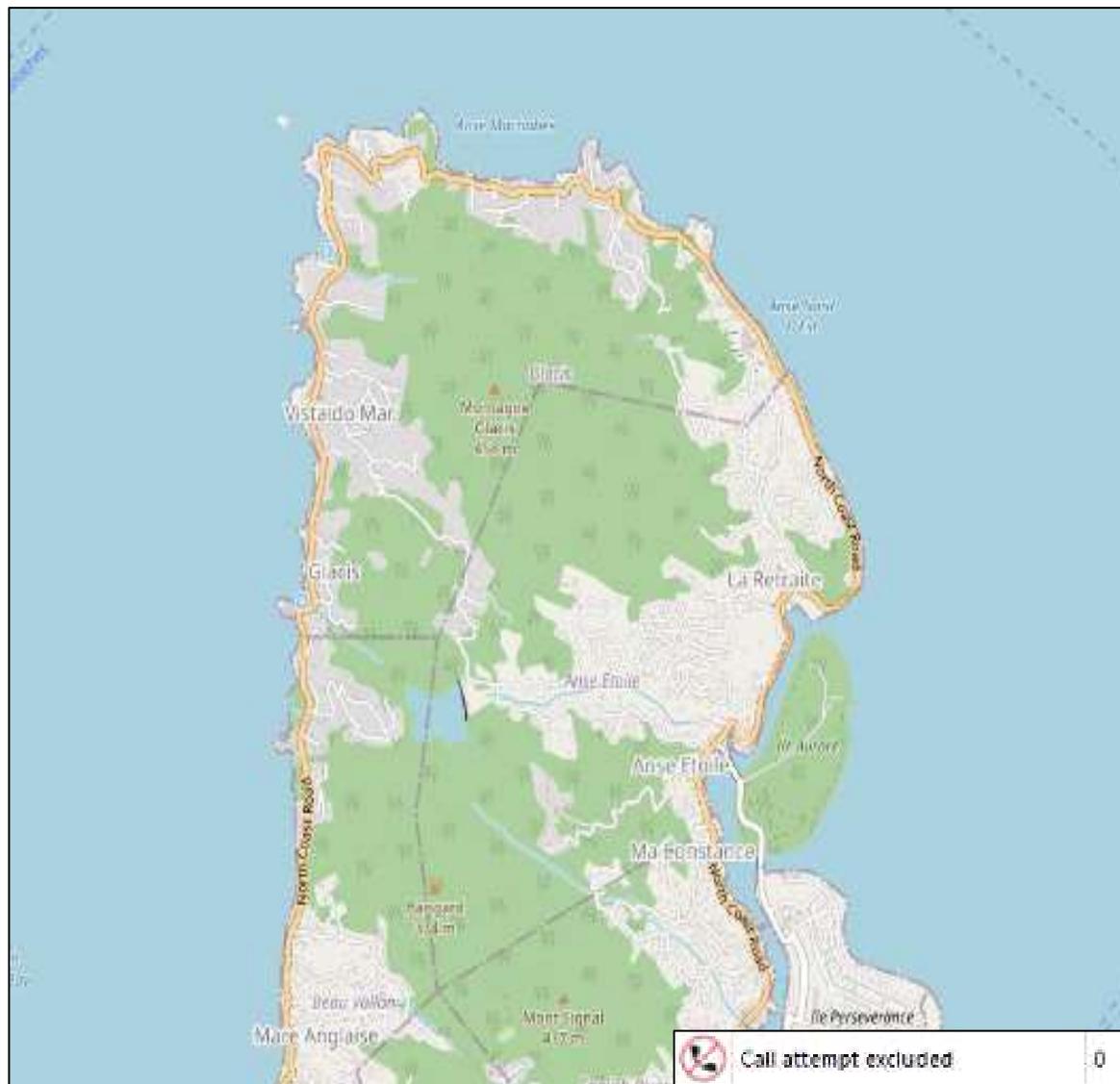


Phase-1 SHORT CALL EXCLUDED EVENTS

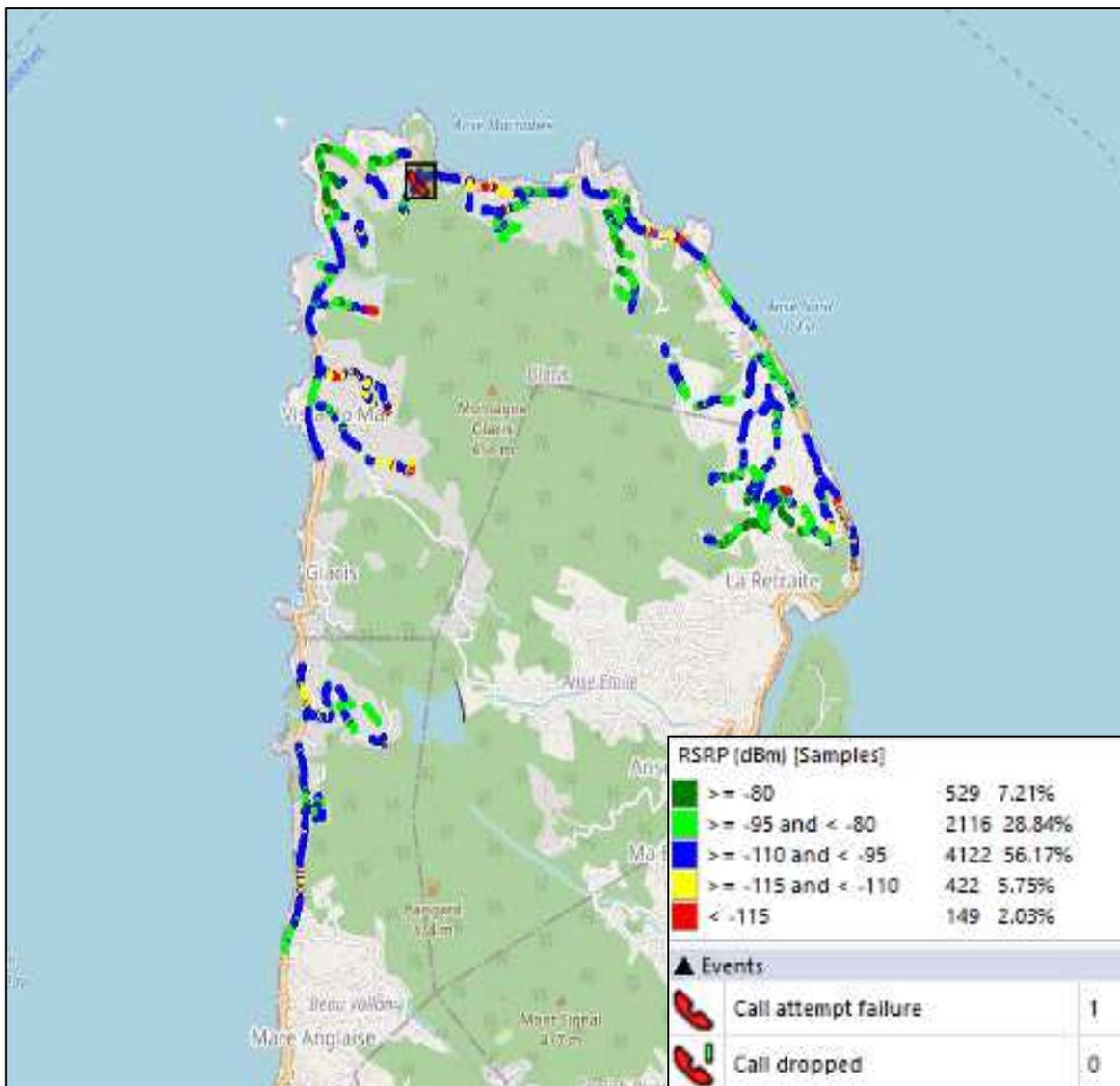
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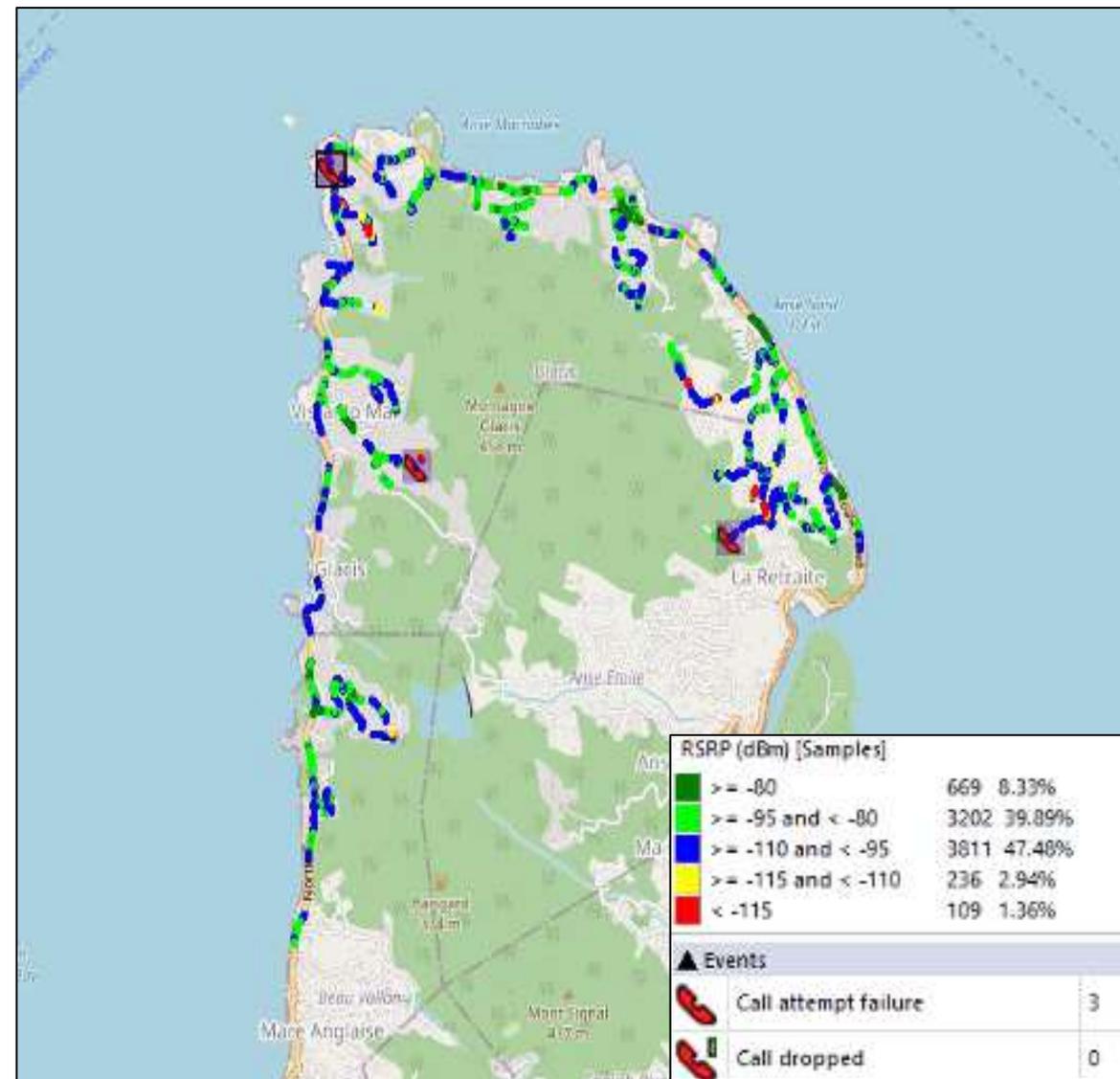
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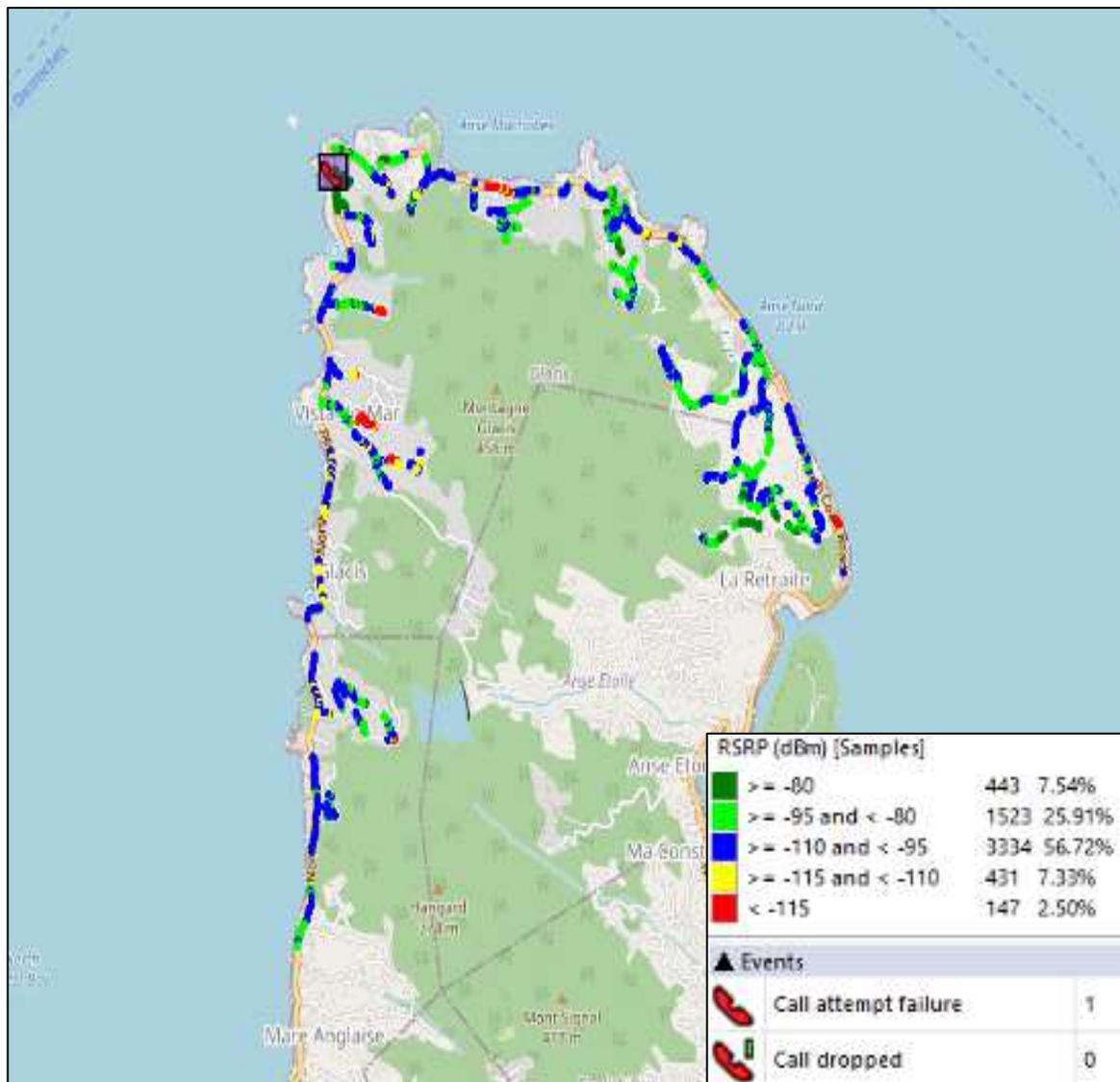
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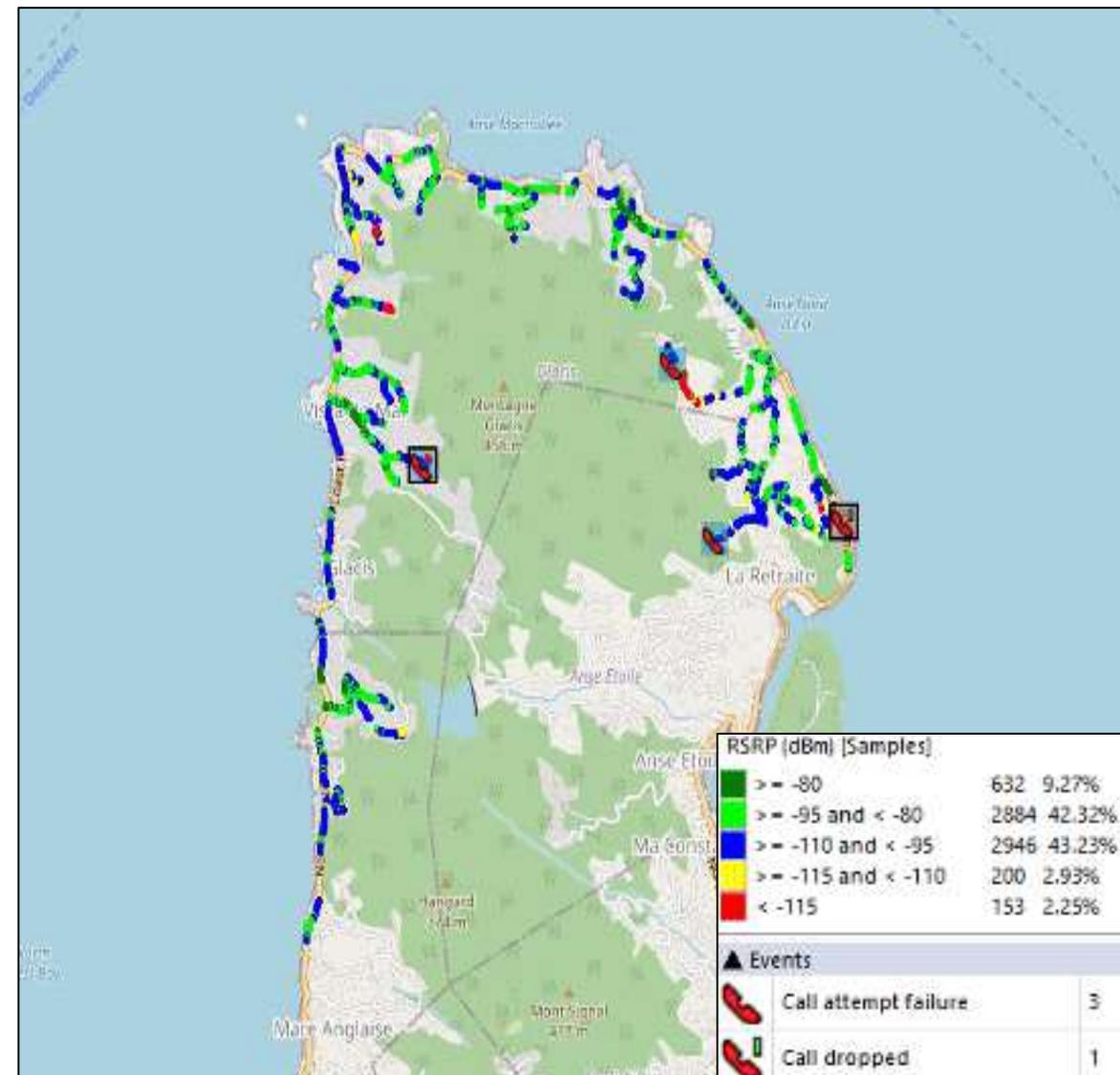
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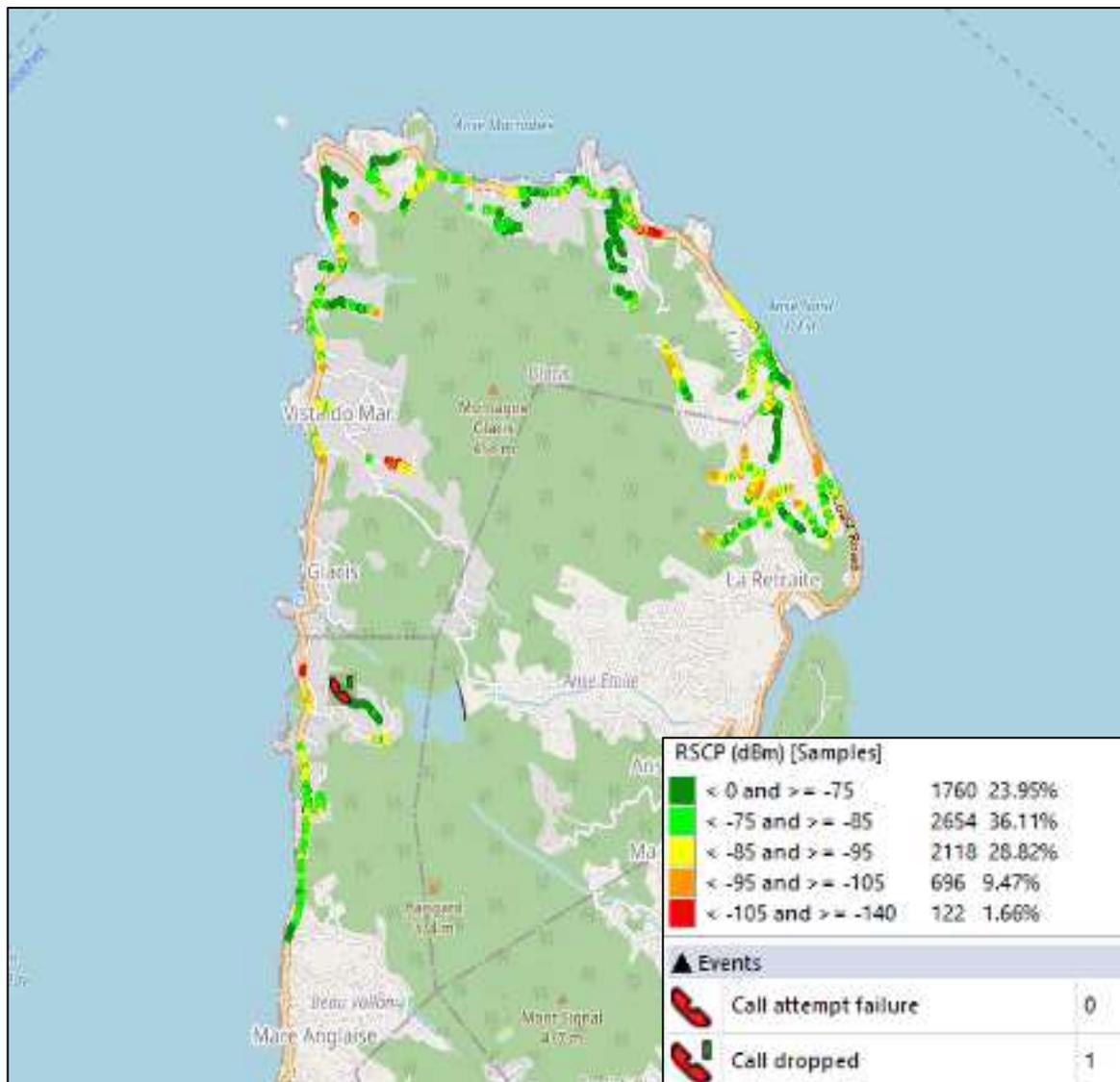
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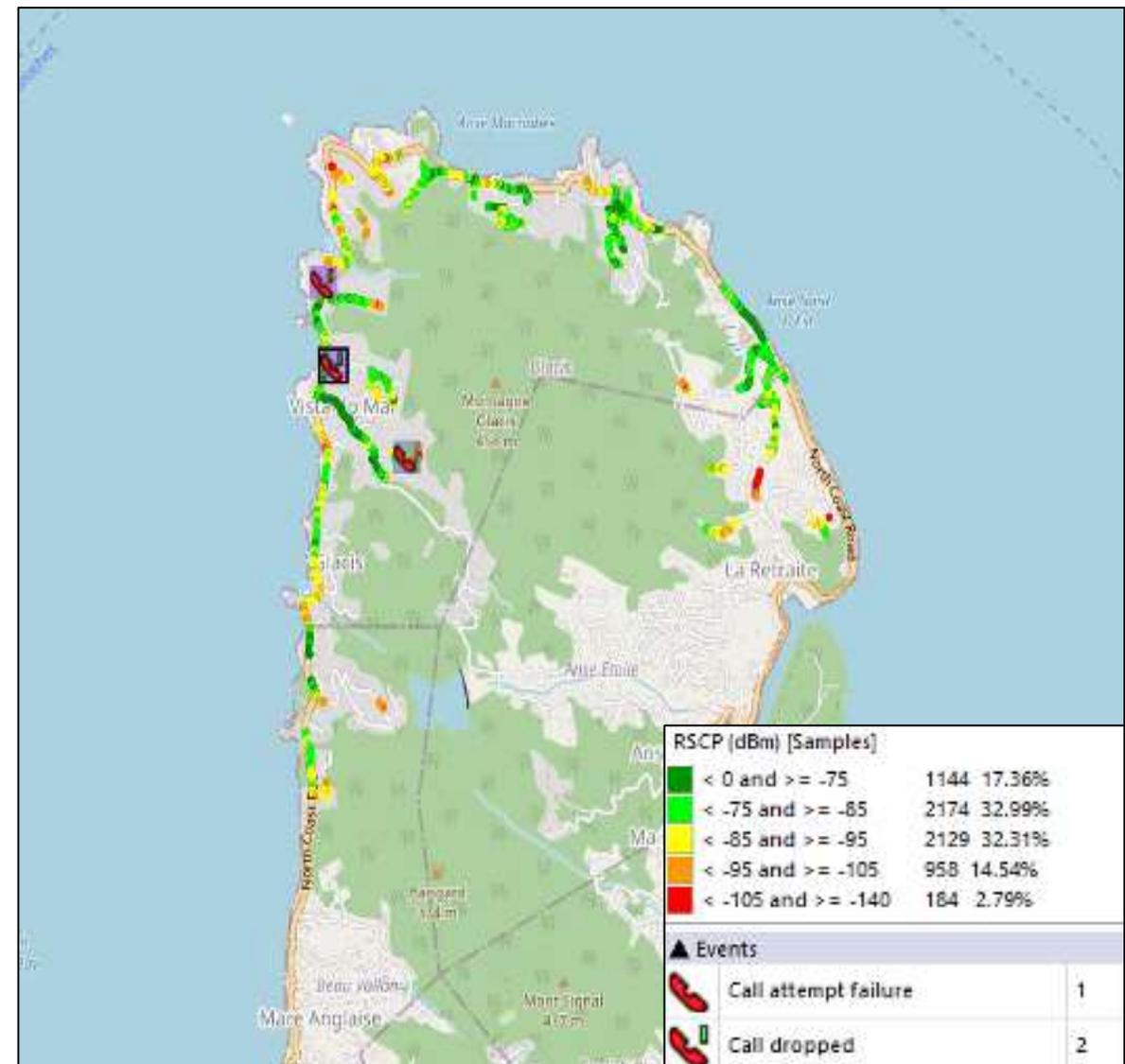
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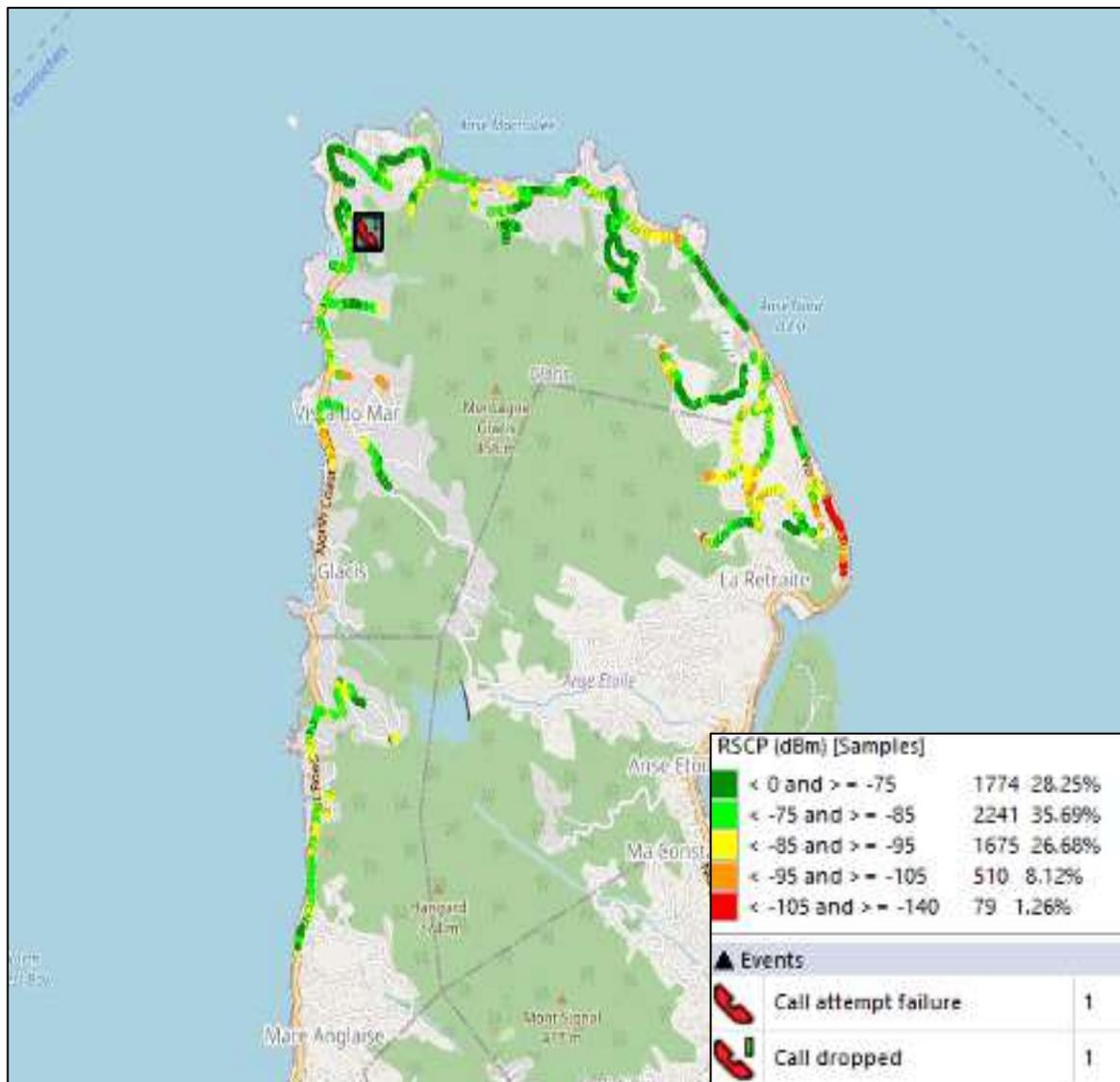
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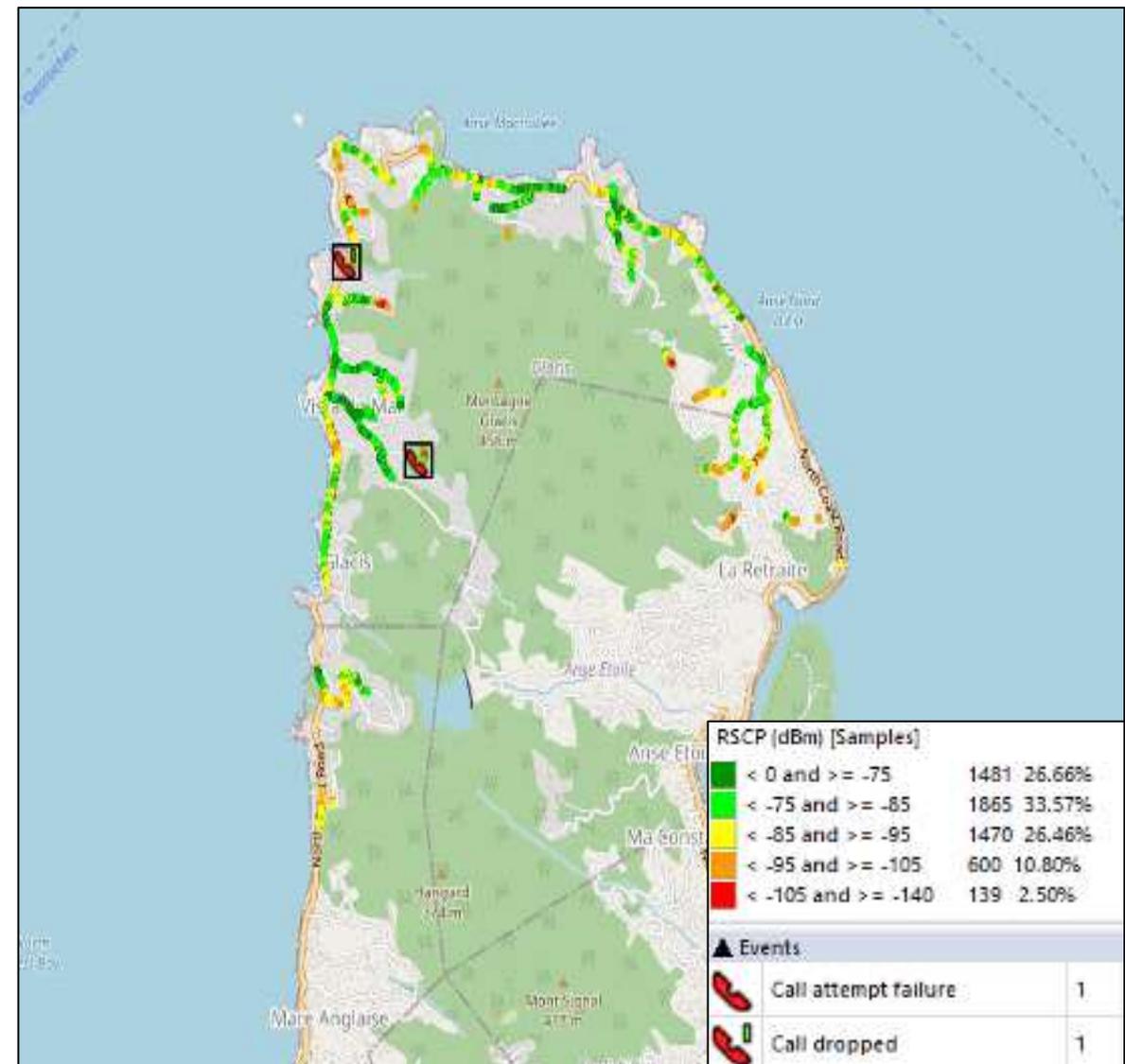
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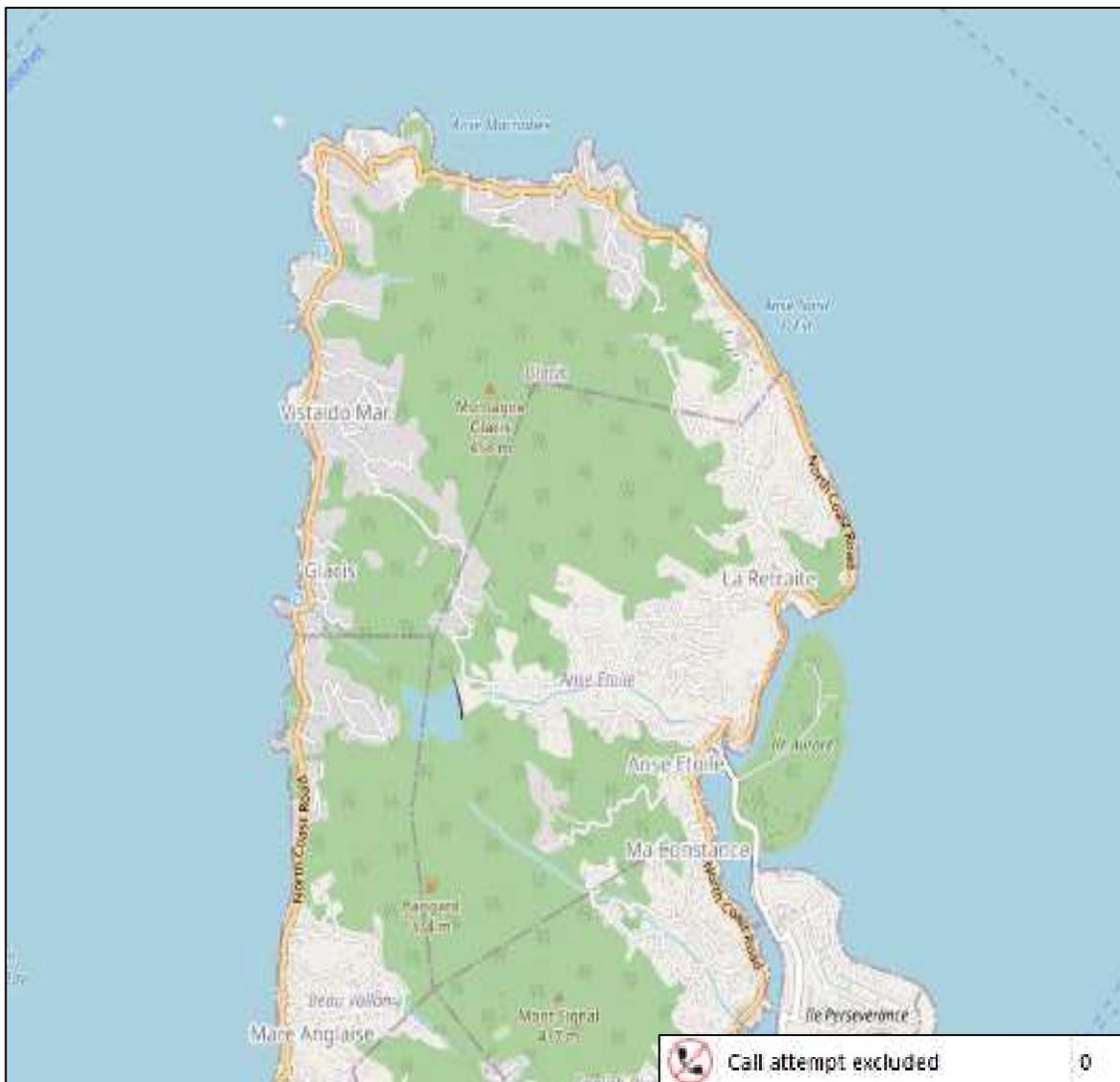
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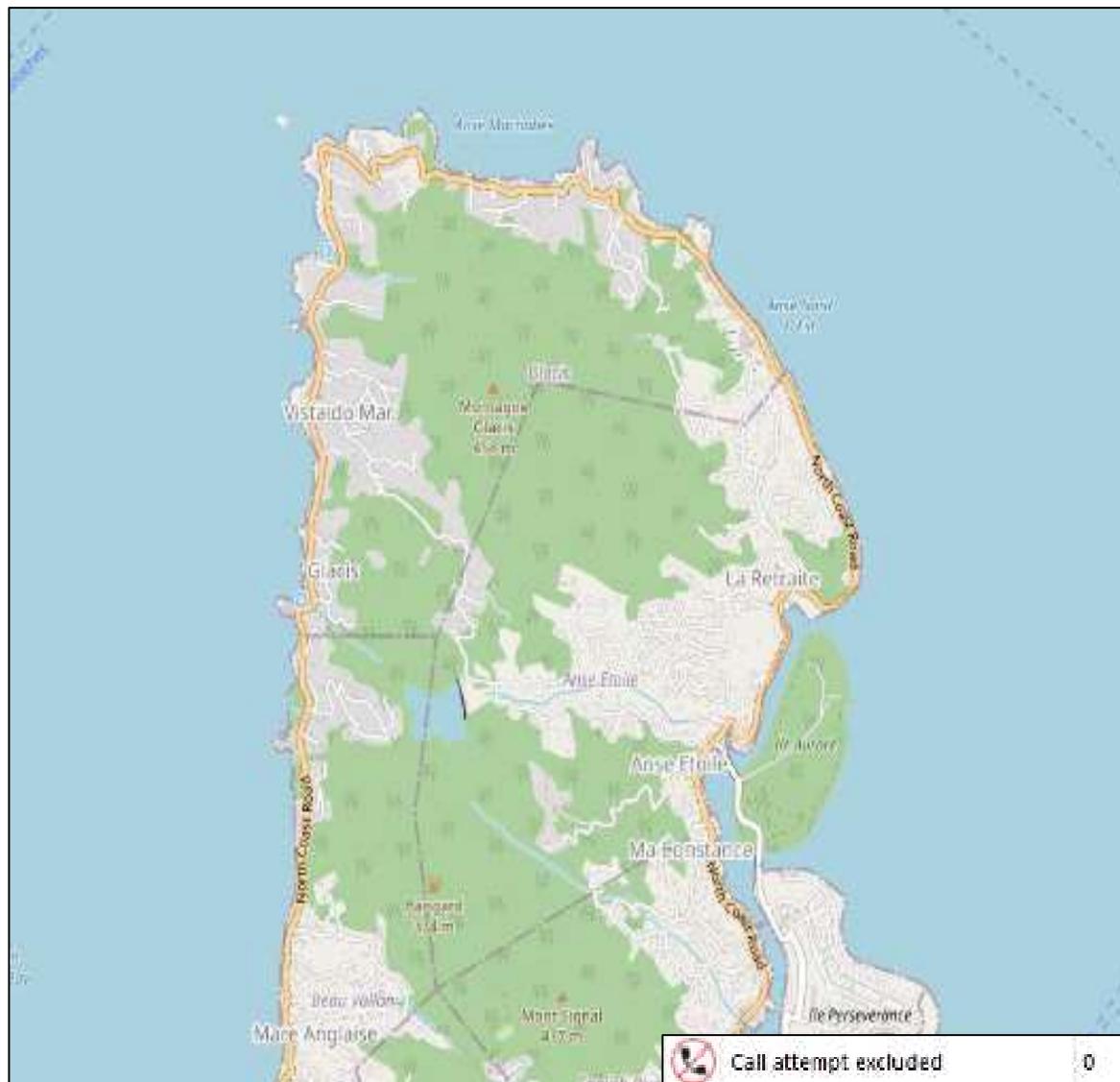
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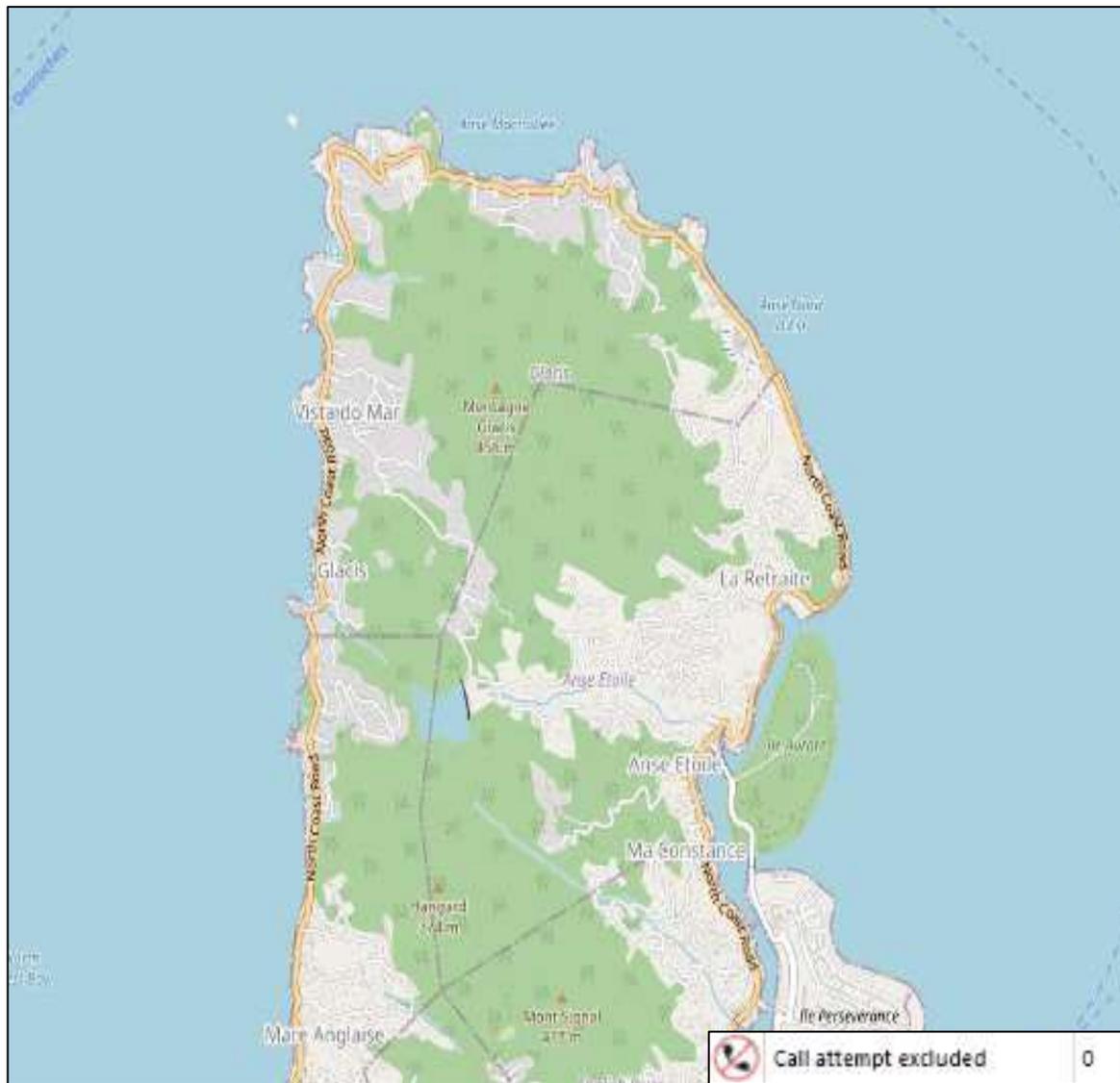


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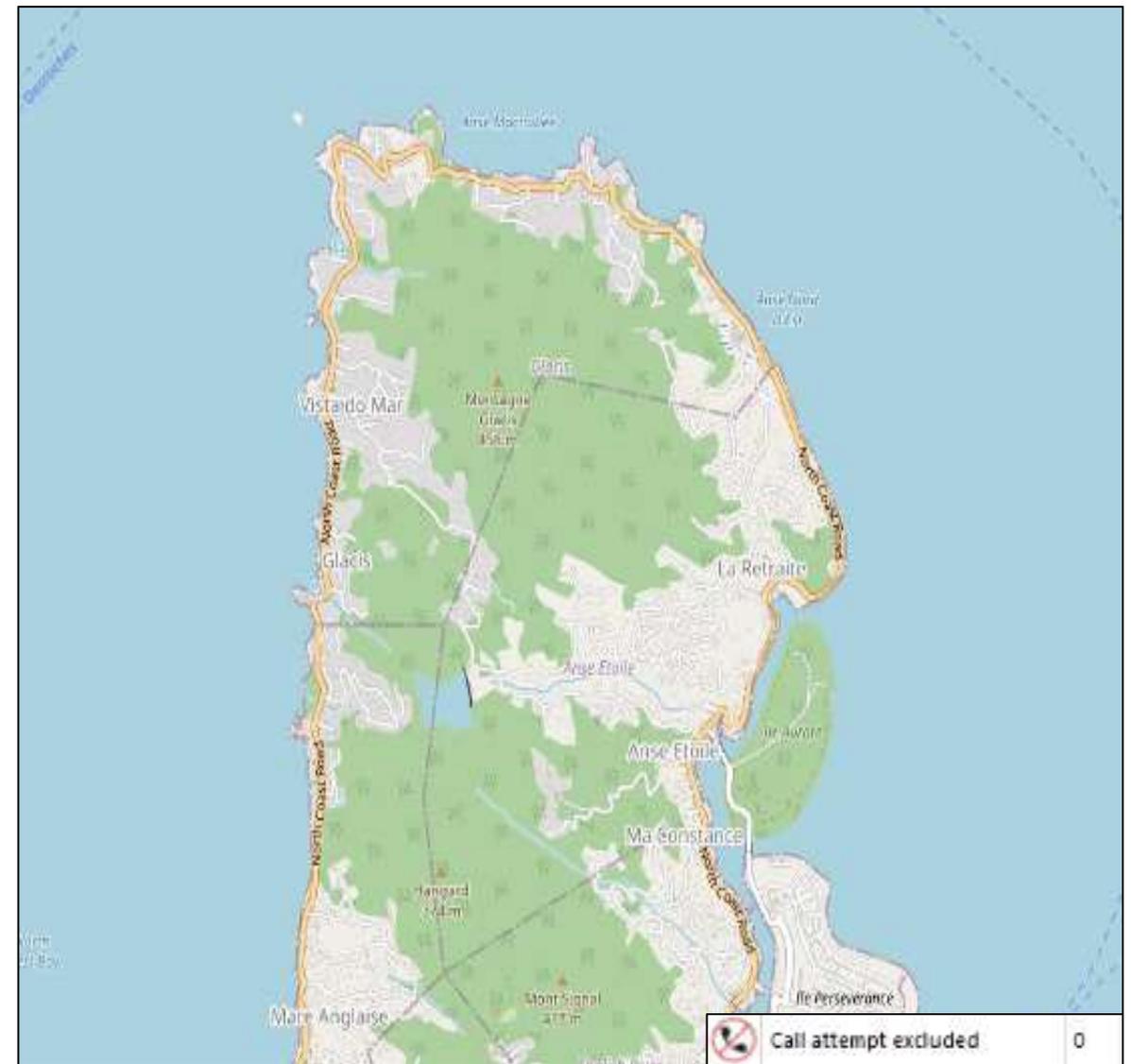


Phase-2 LONG CALL EXCLUDED EVENTS

Airtel LC MO

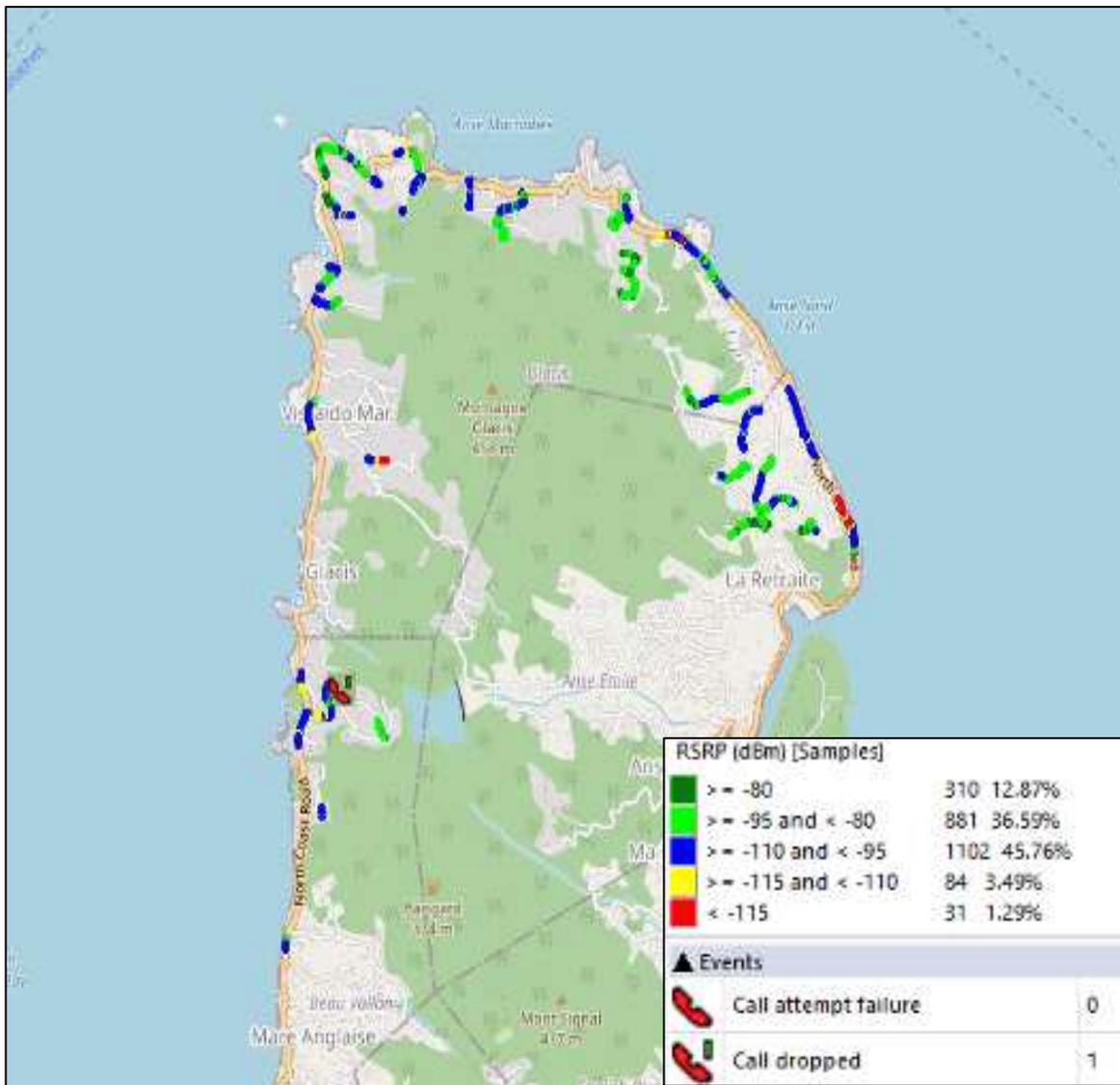


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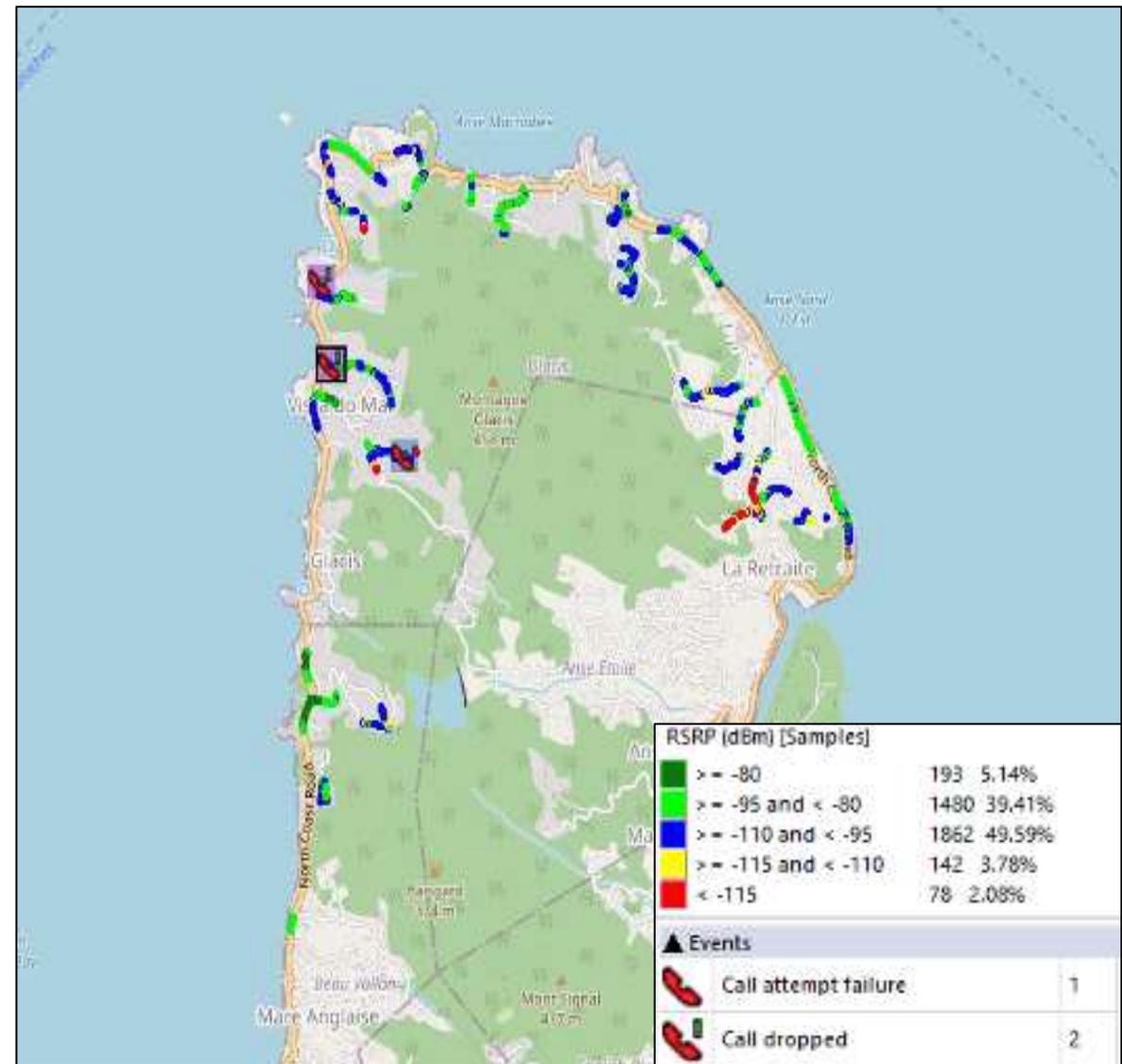


Phase-1 LONG CALL FAILURE EVENTS LOCATION vs RSRP

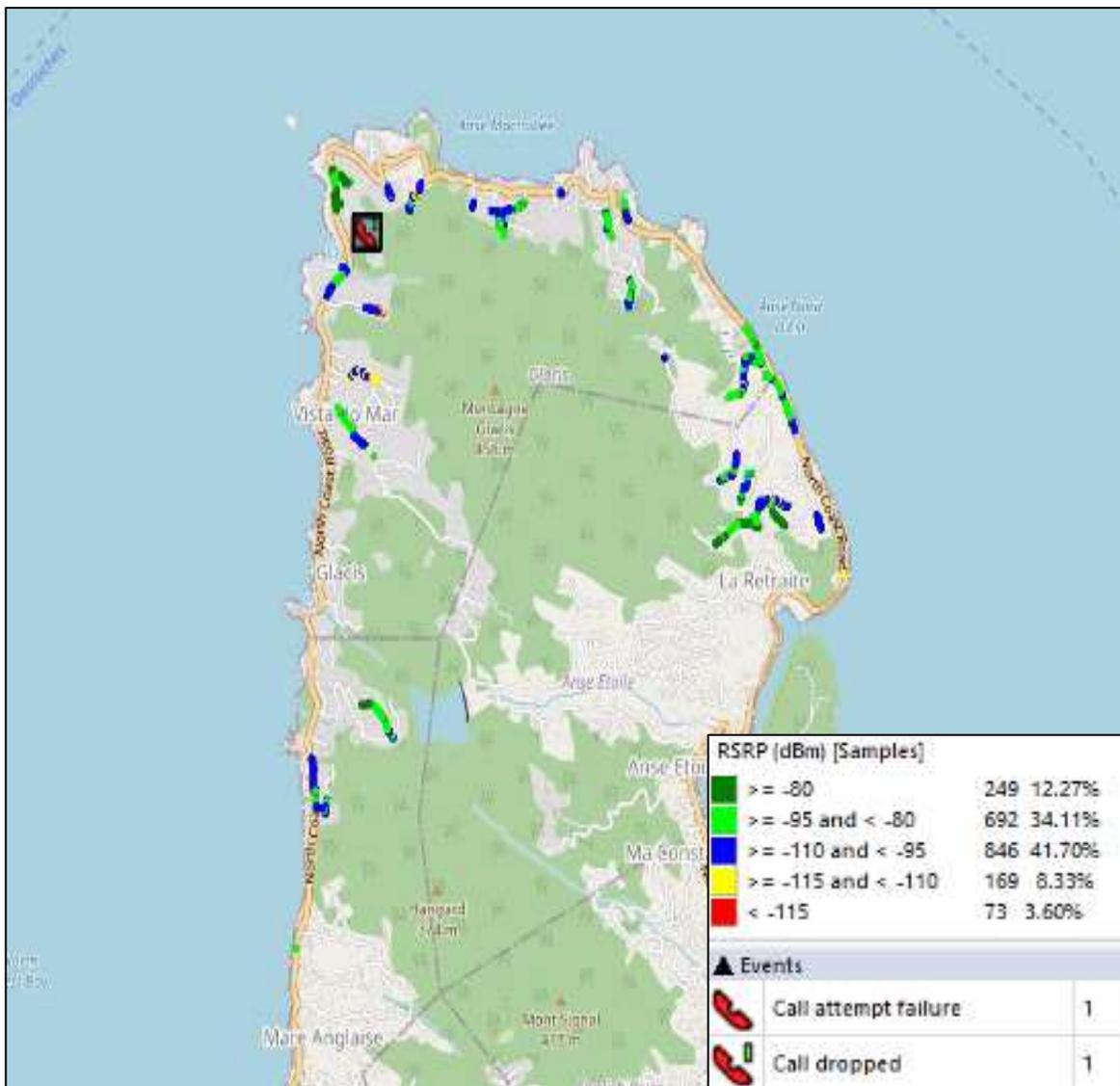
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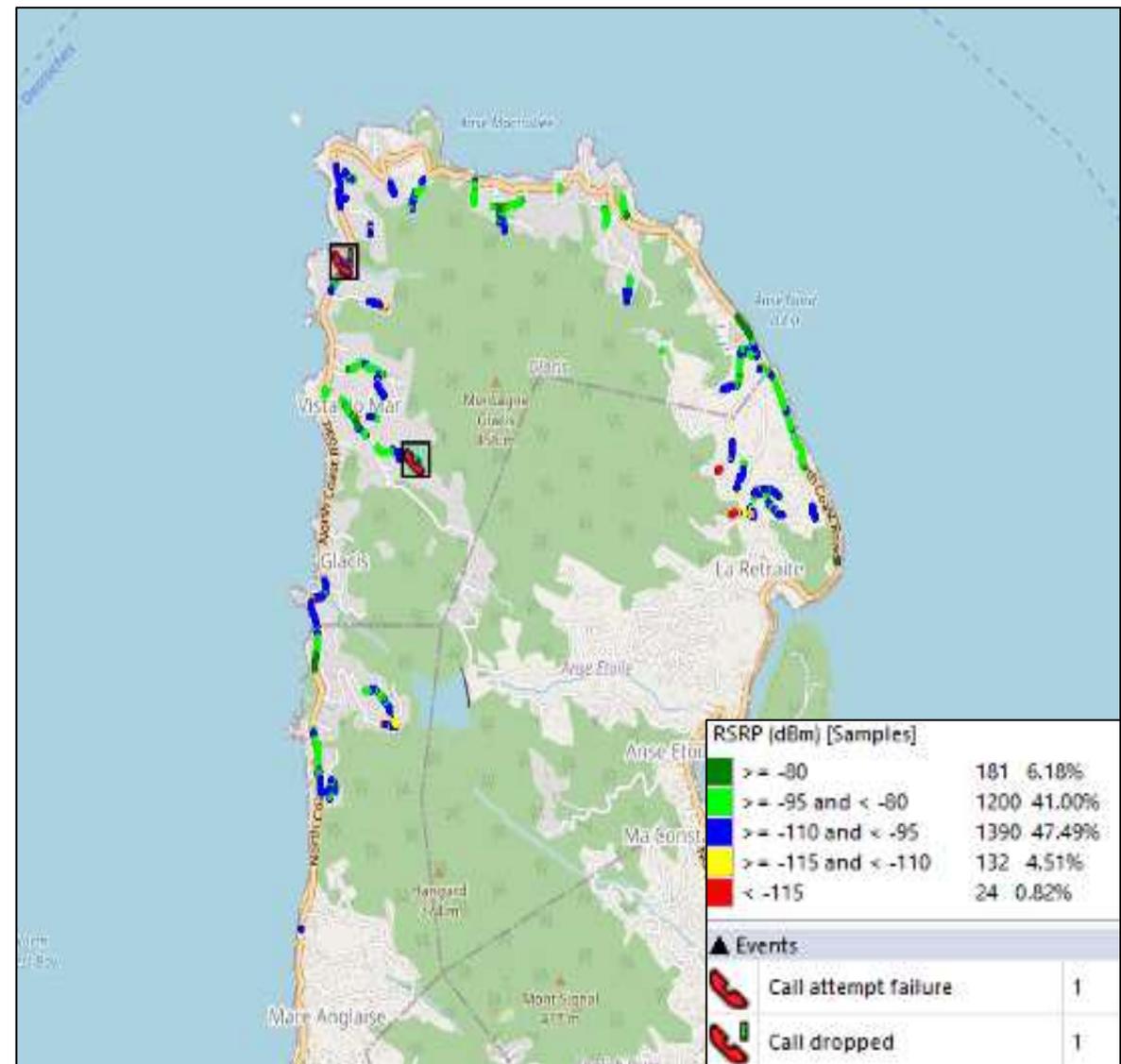
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Airtel LC MO

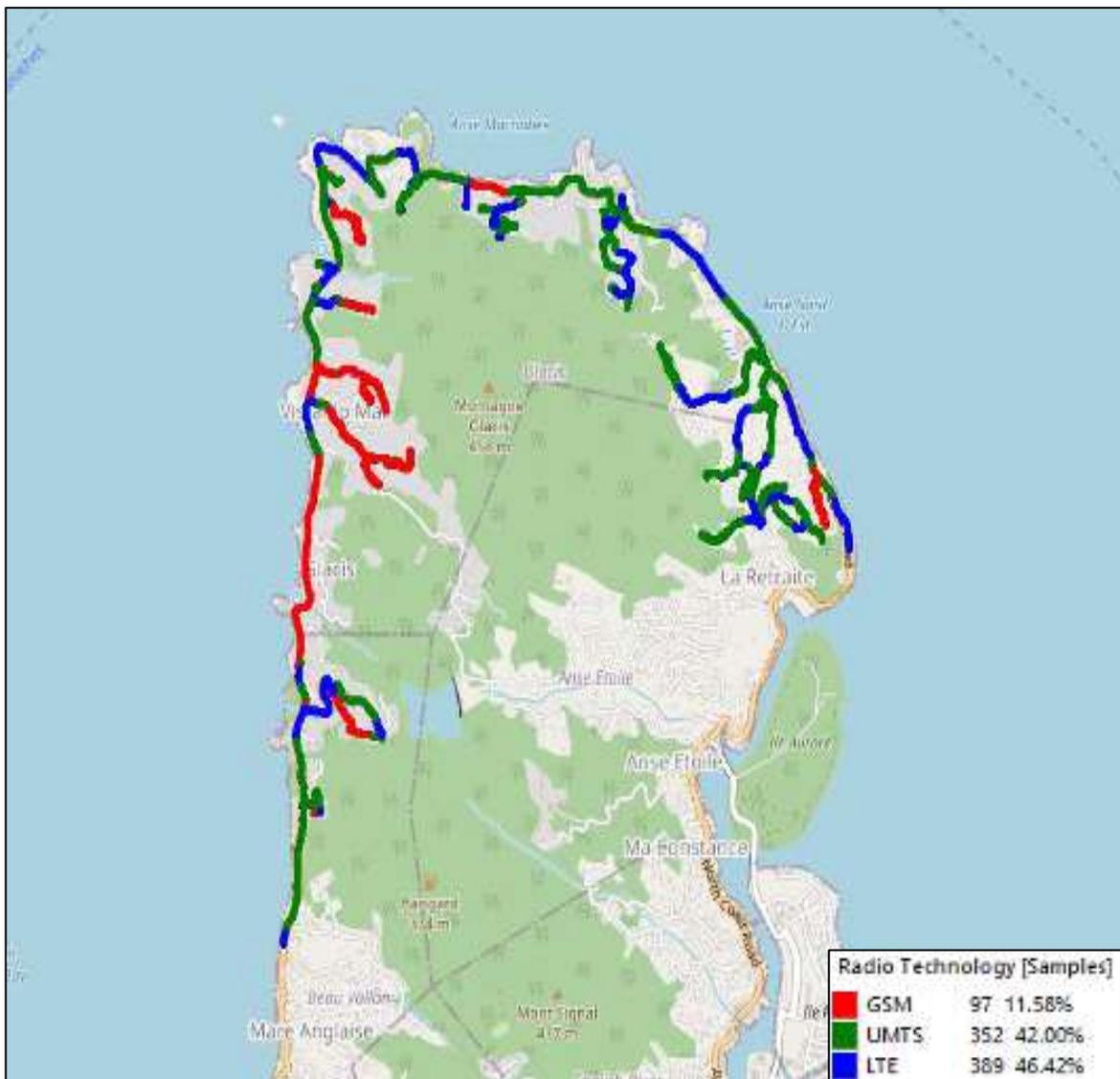


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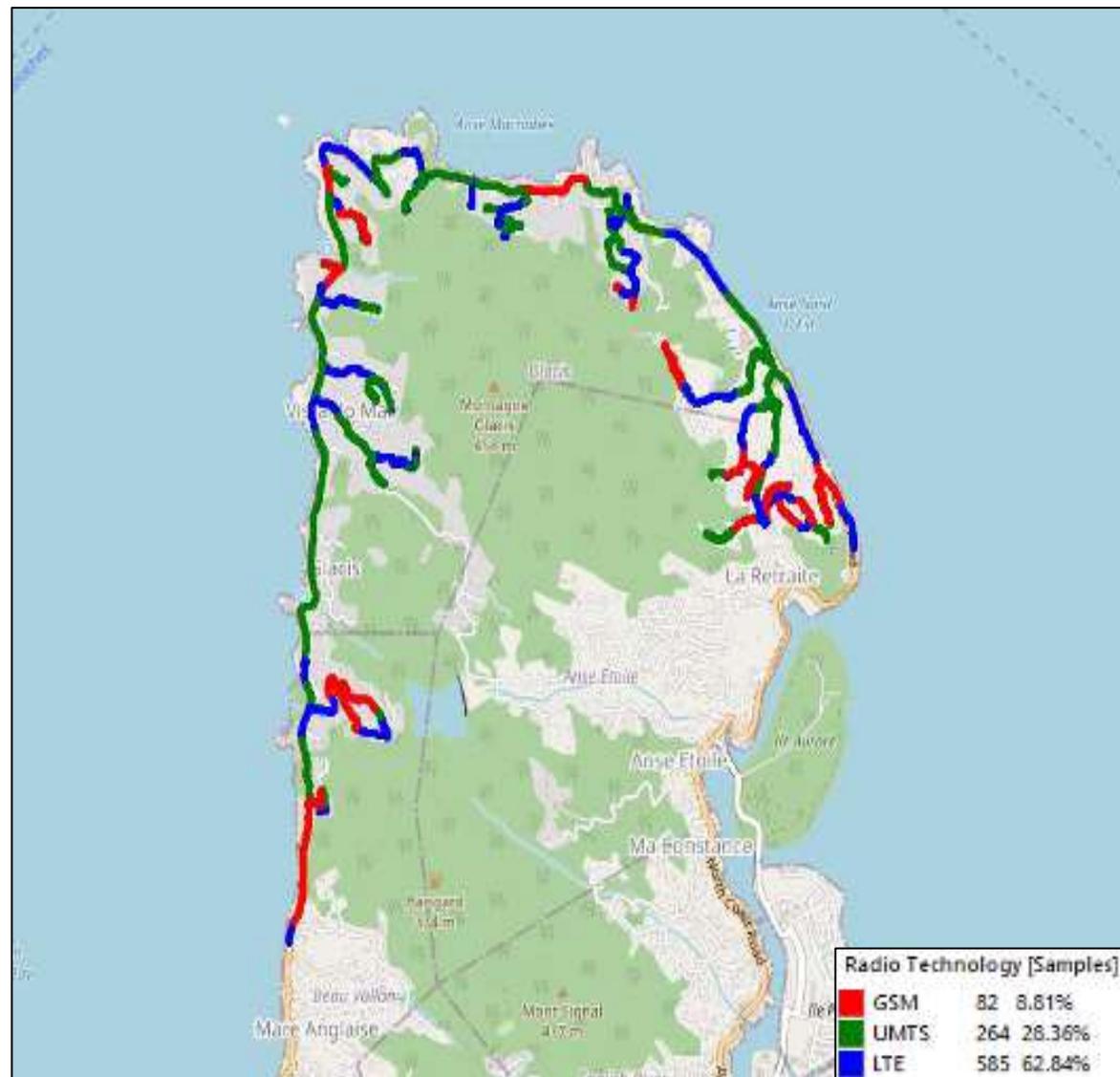


LONG CALL DRIVE PLOTS

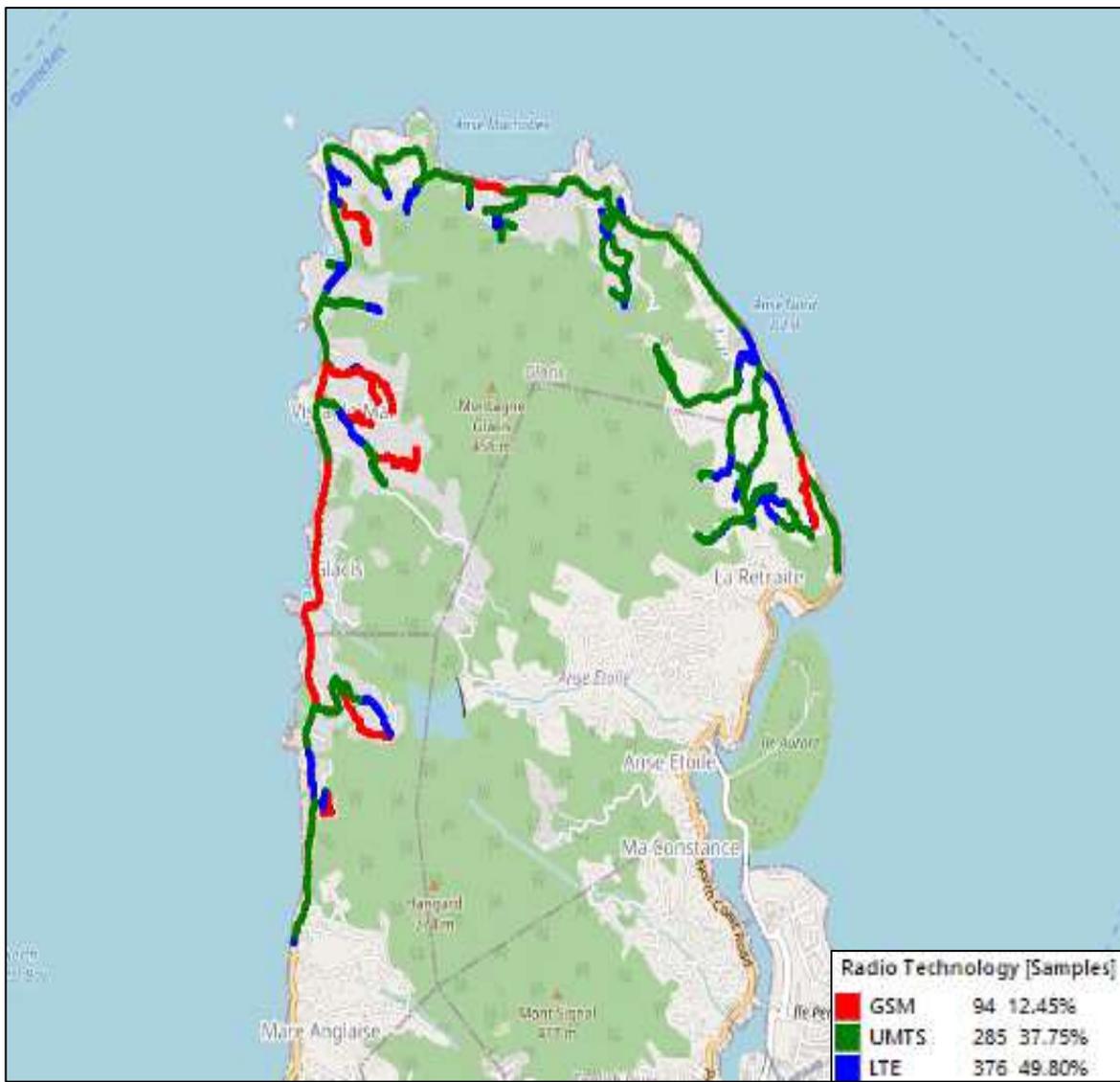
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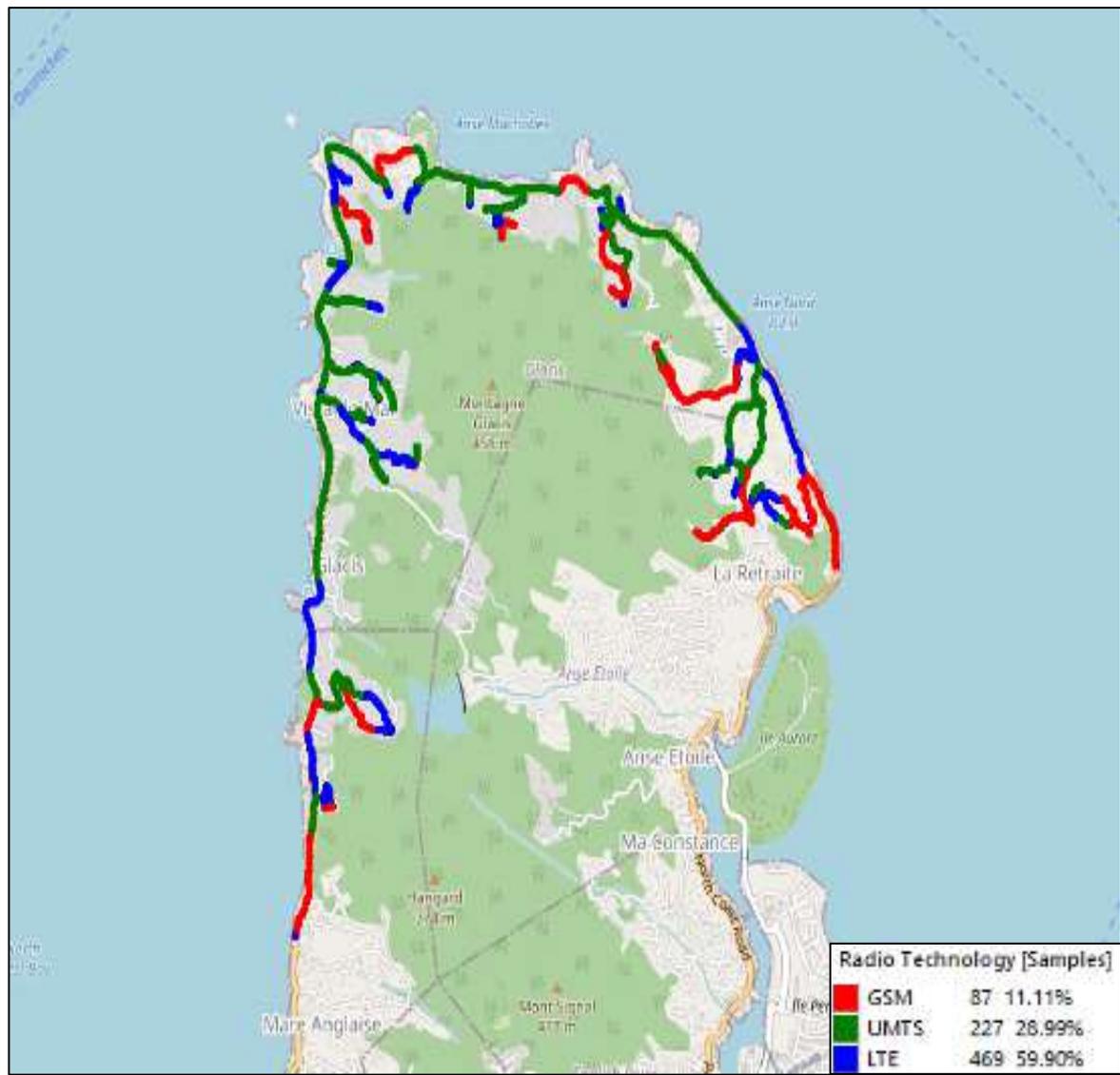
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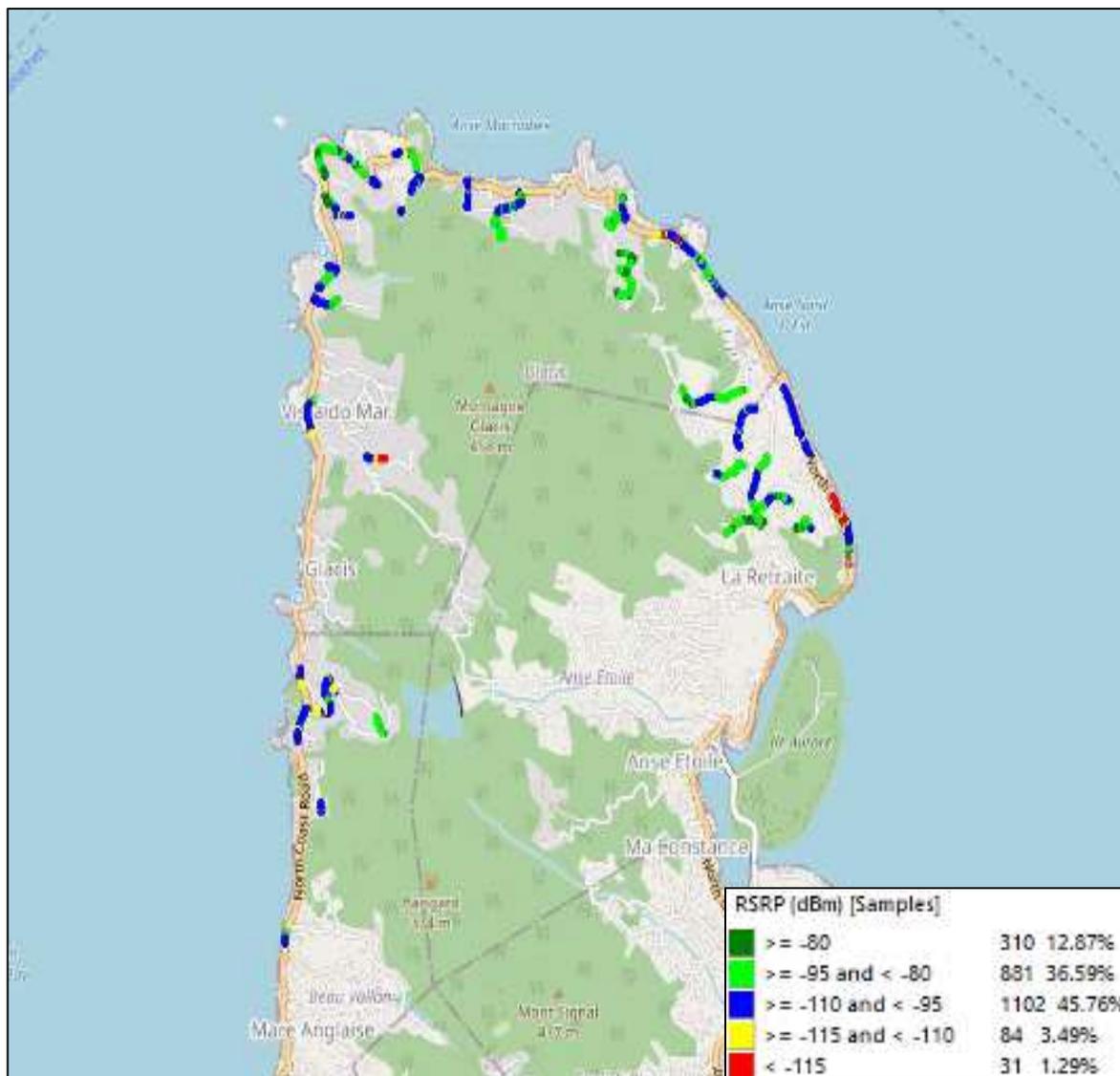
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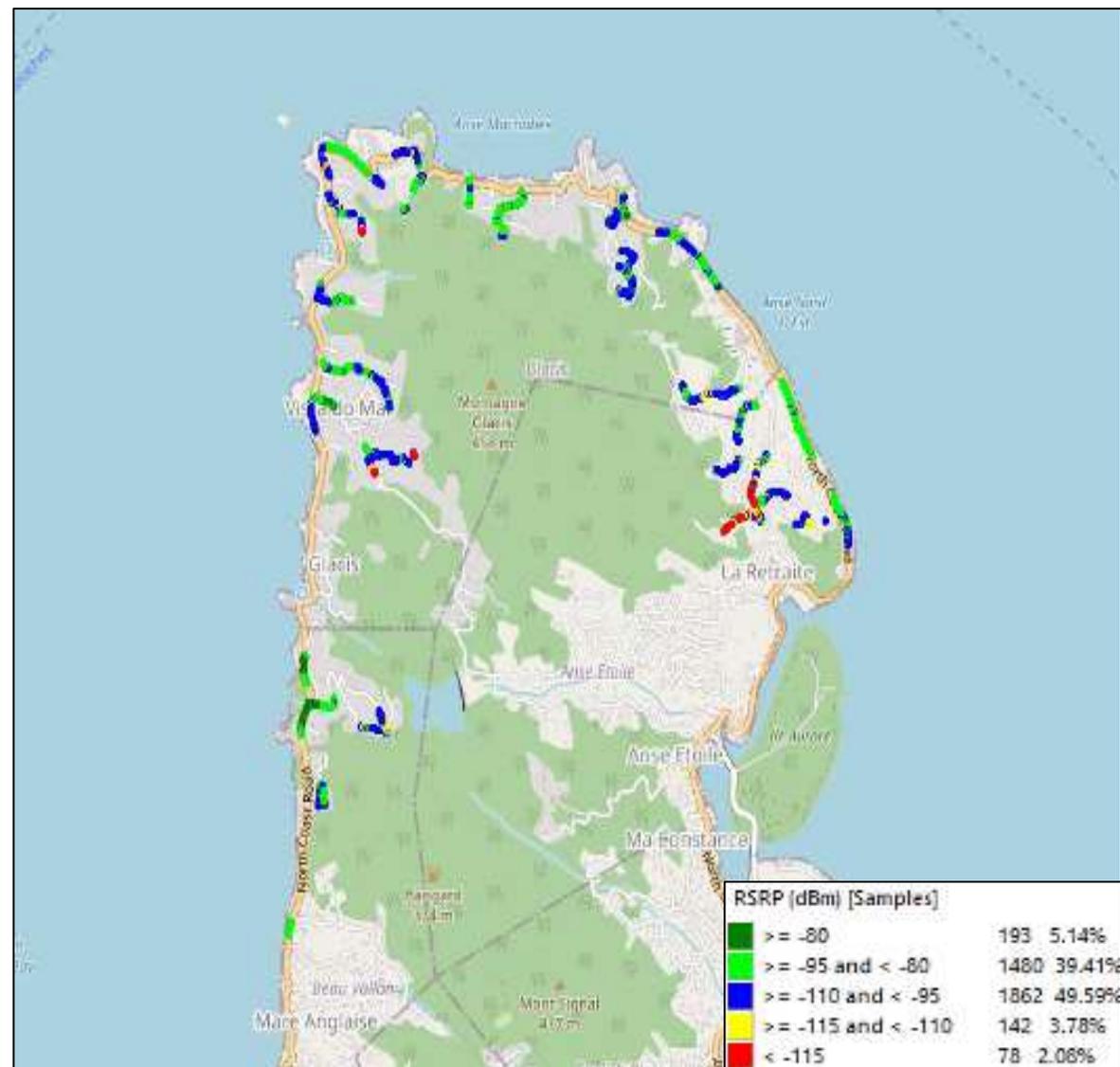
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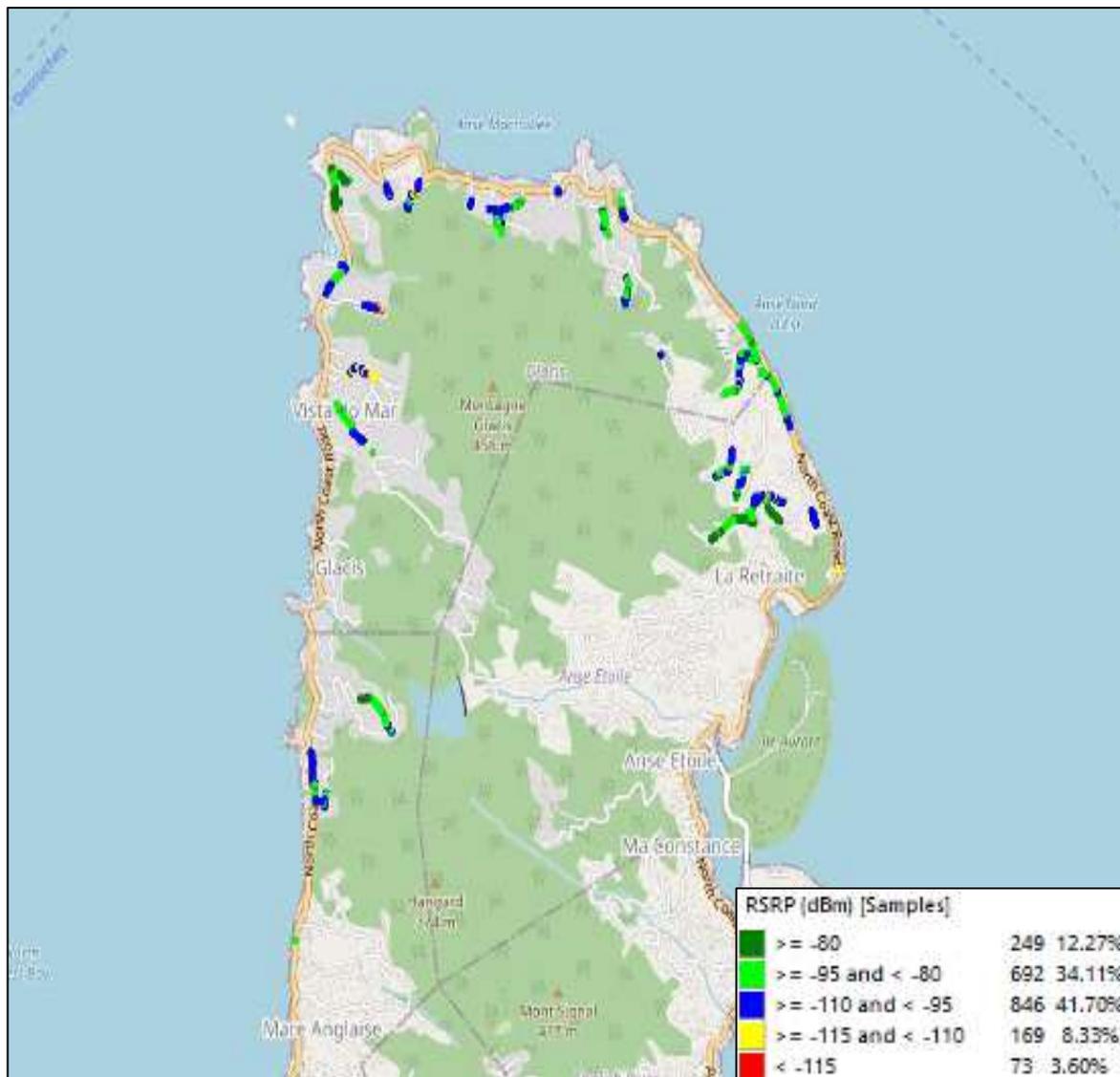
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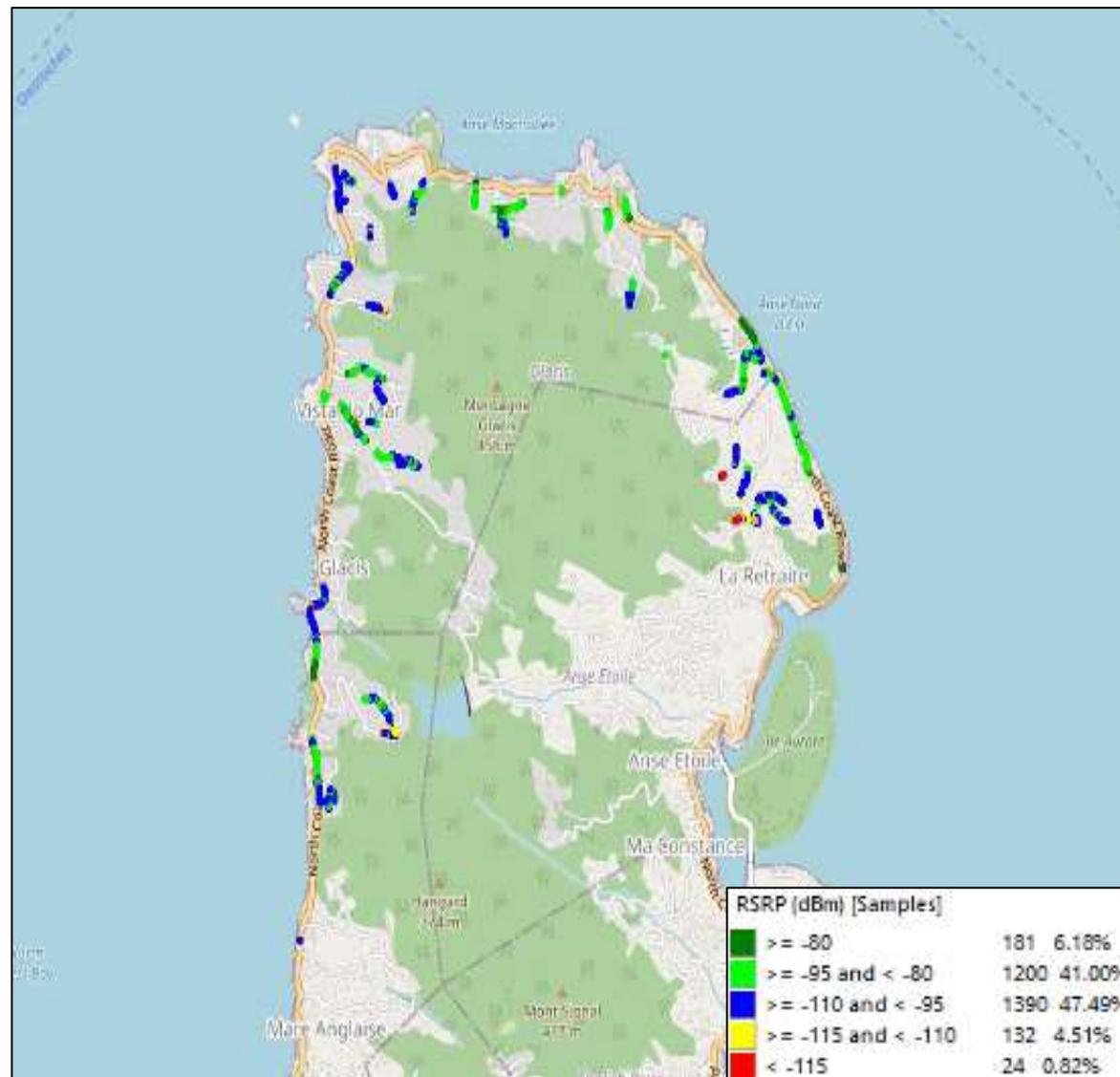
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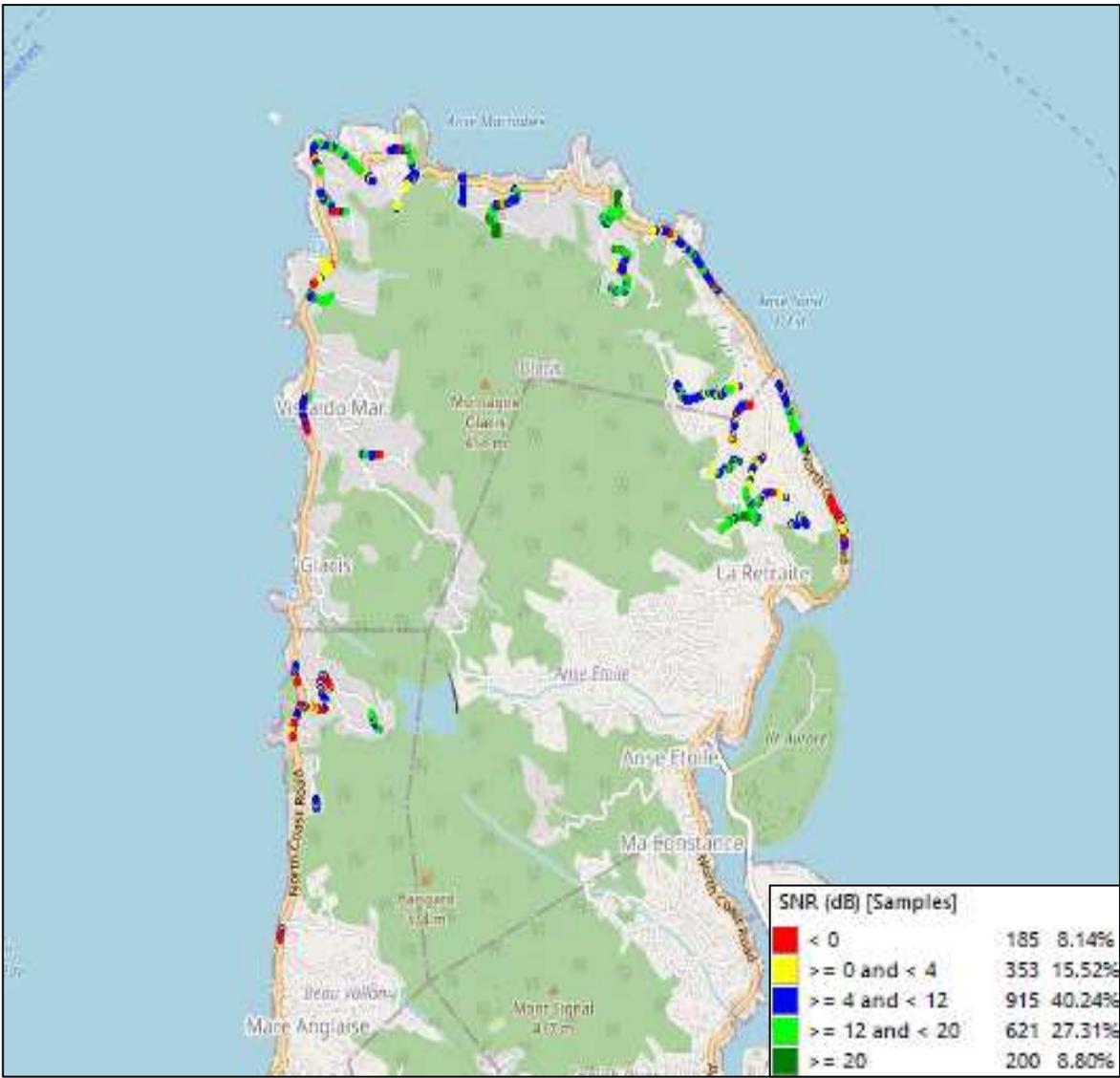
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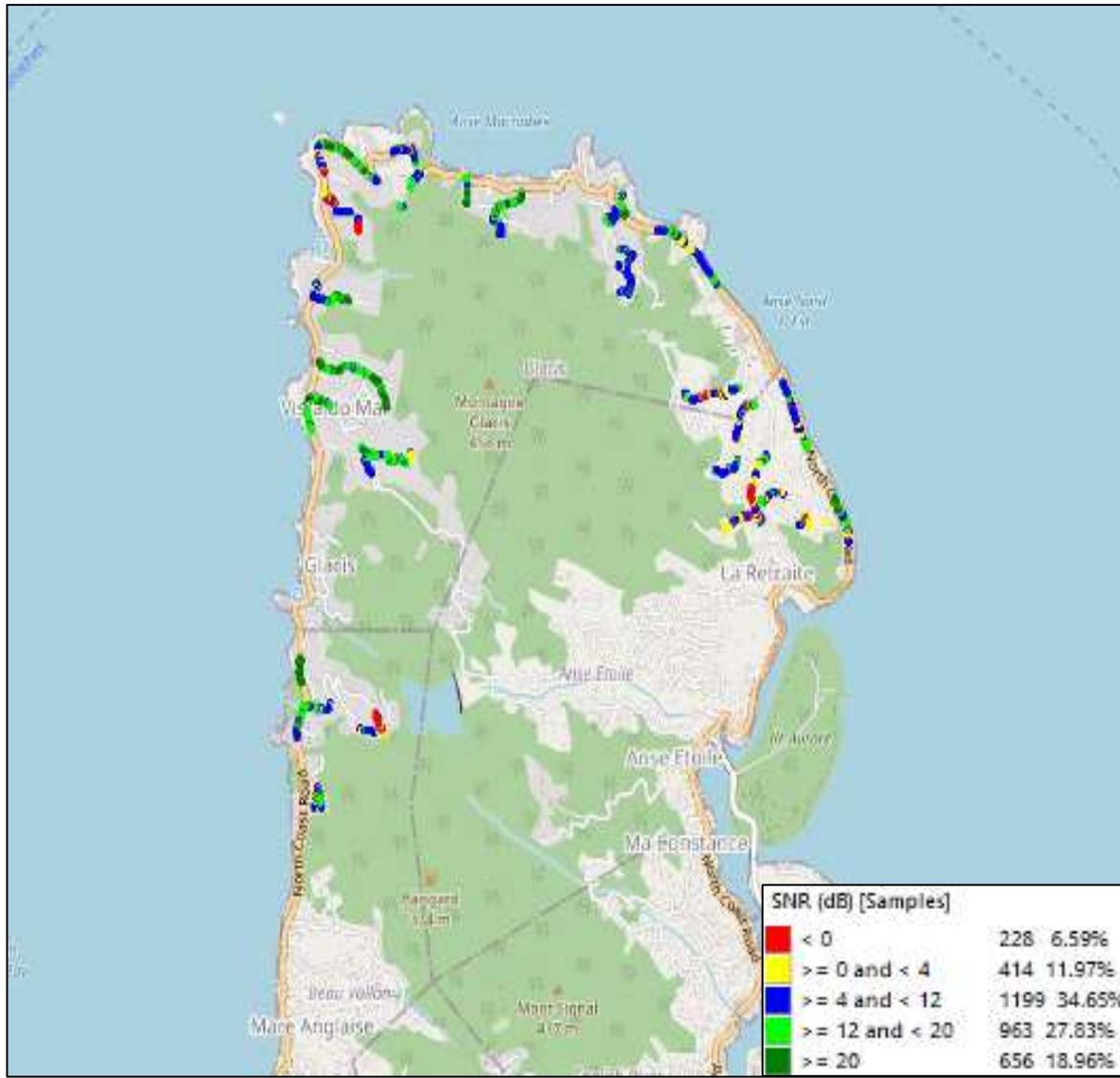
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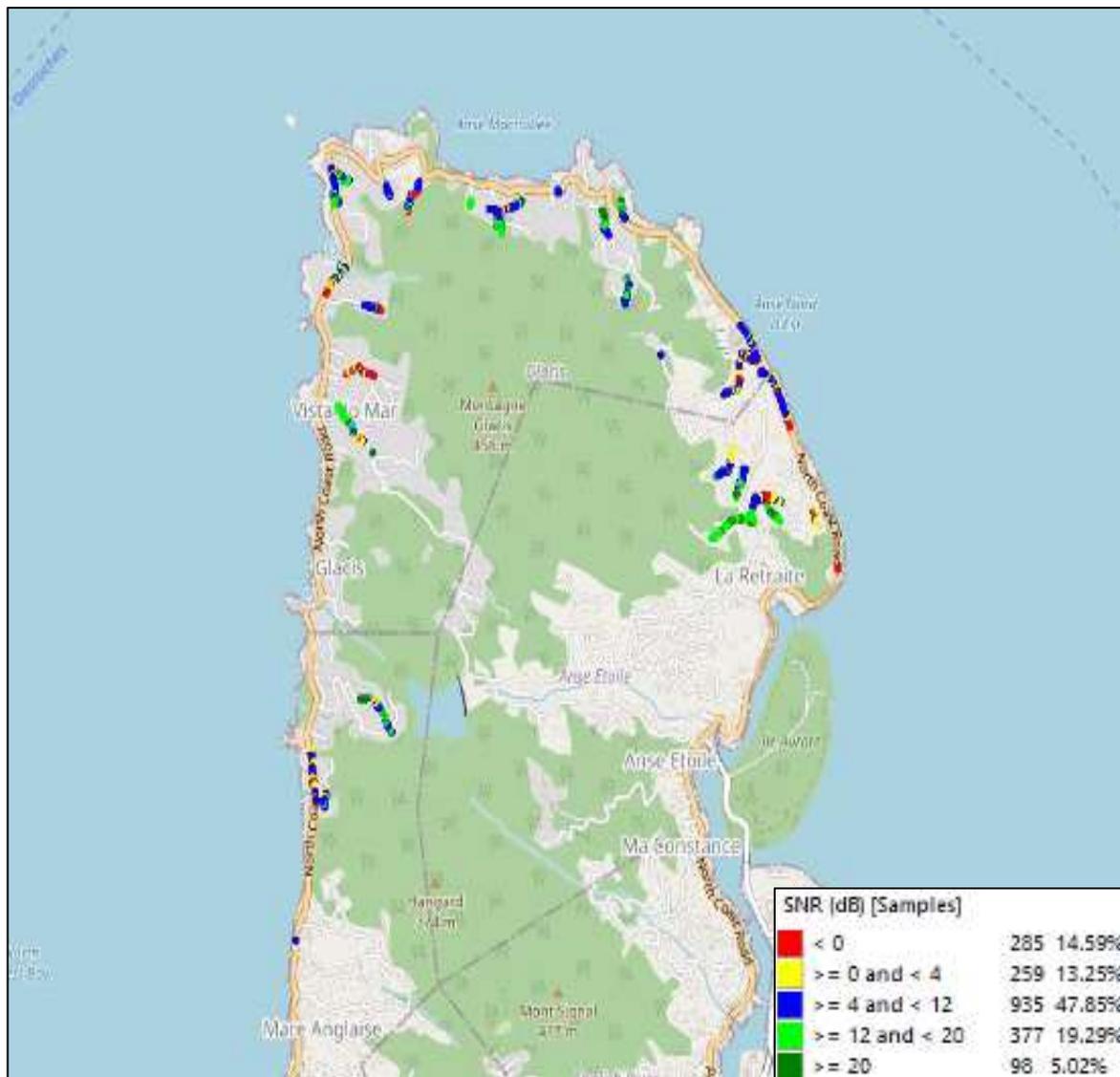
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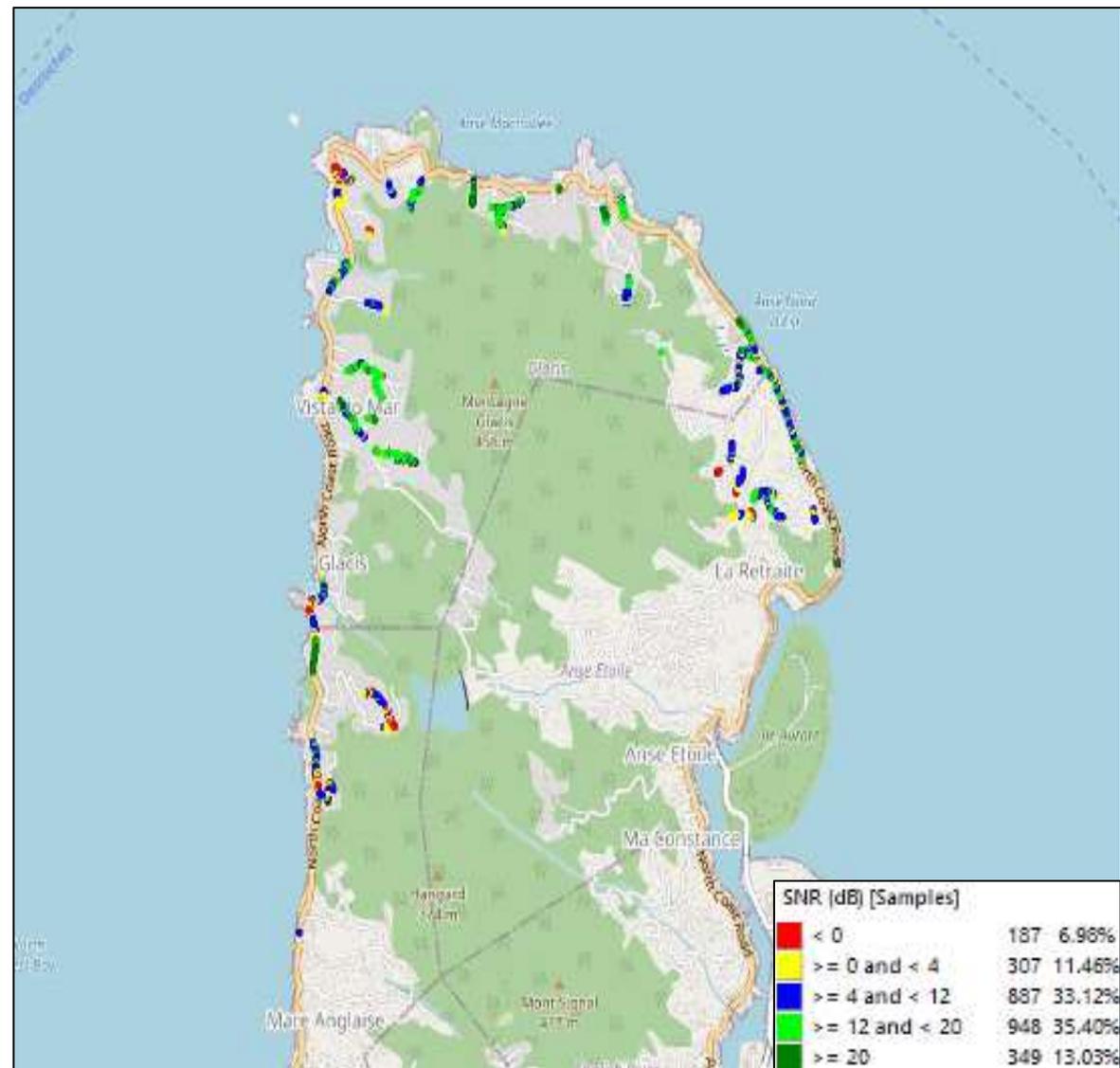
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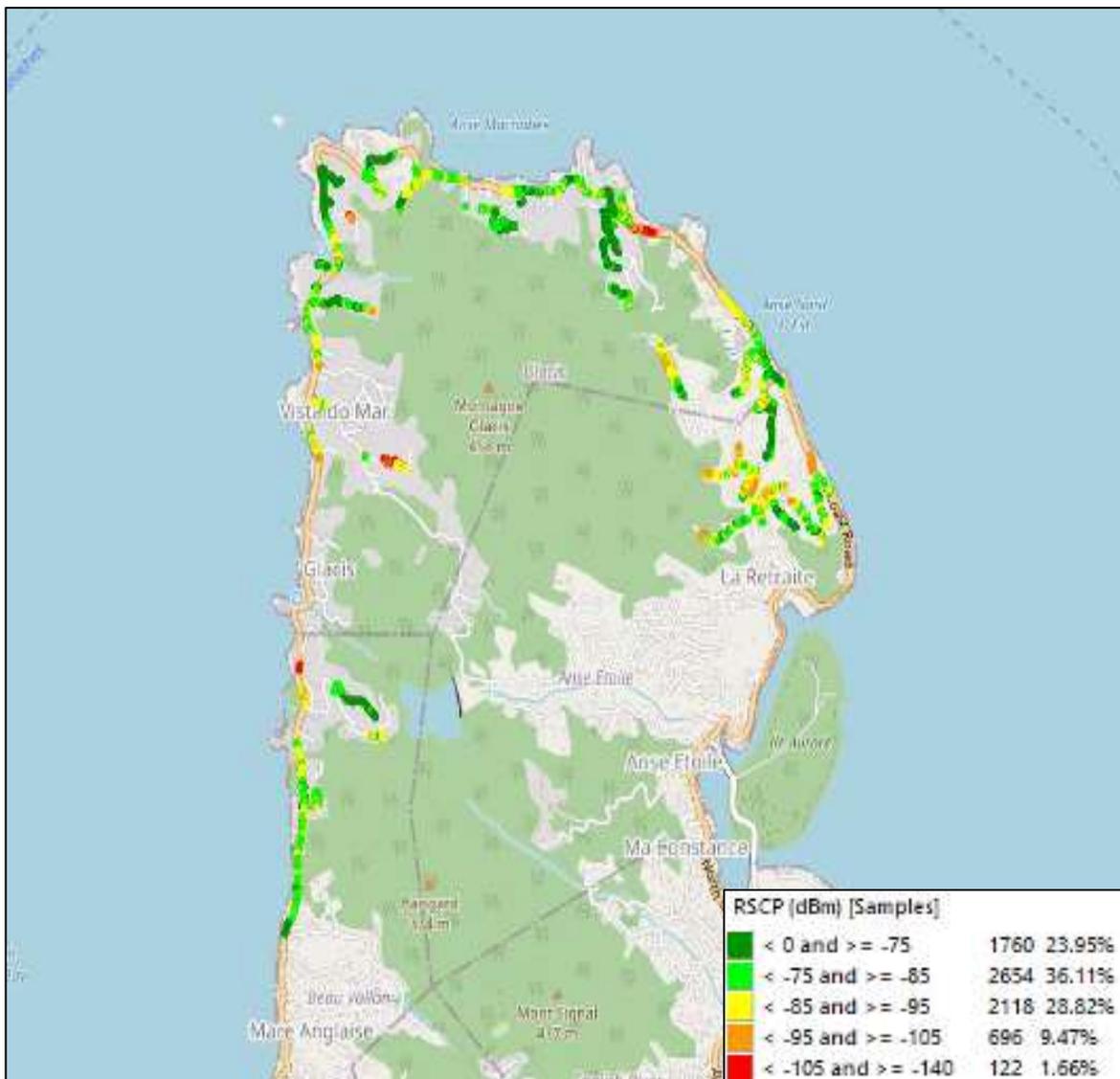
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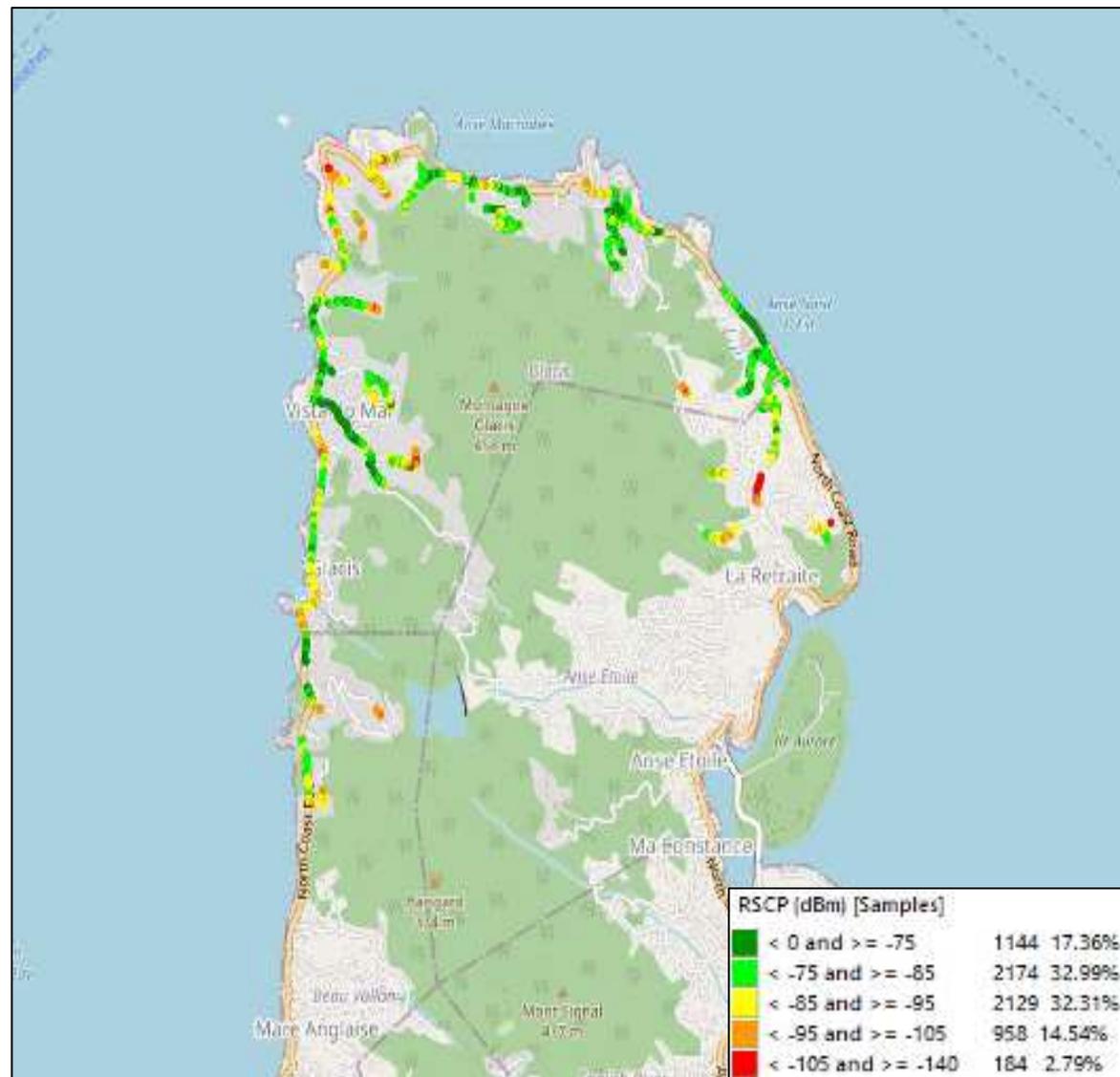
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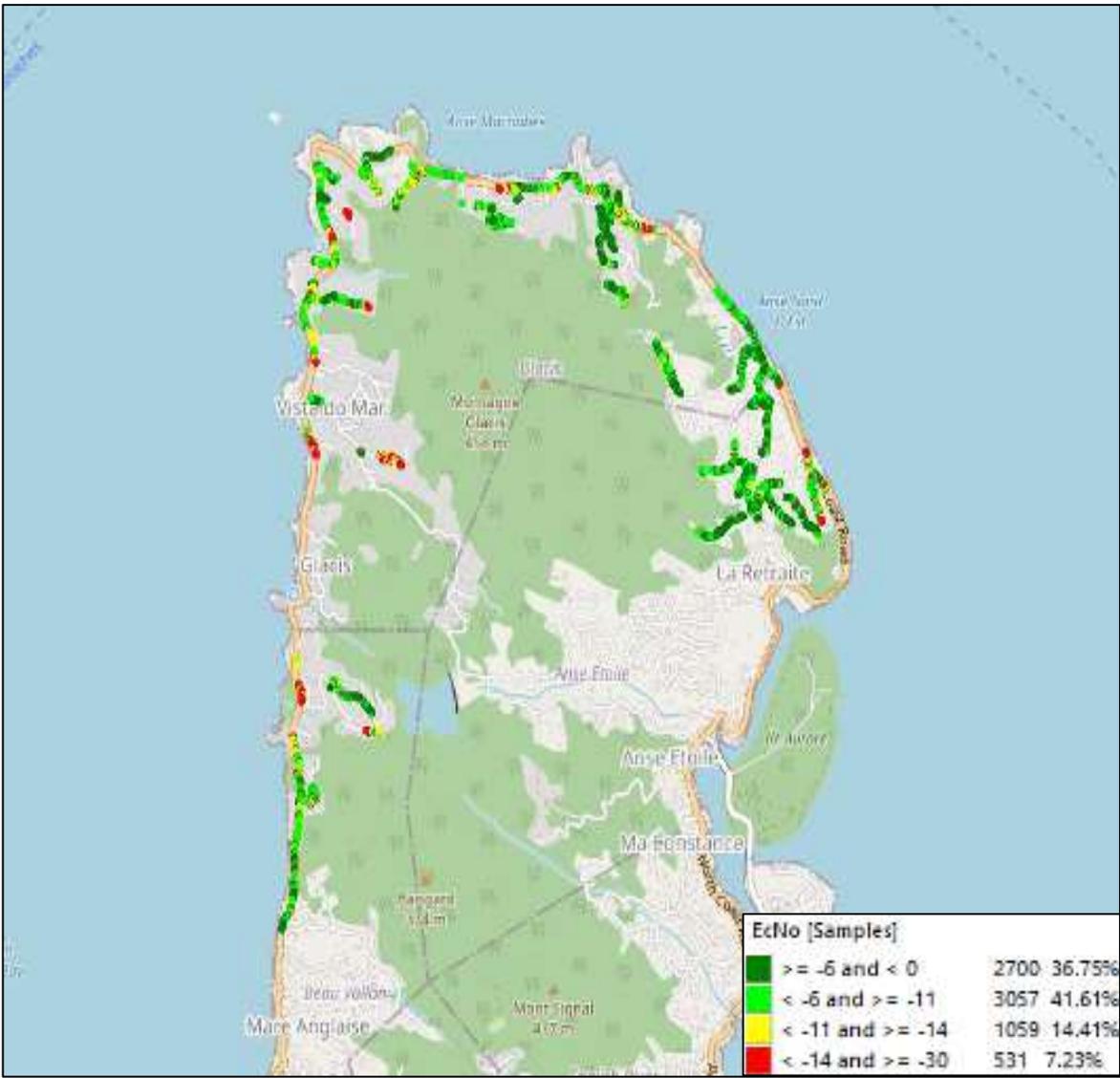
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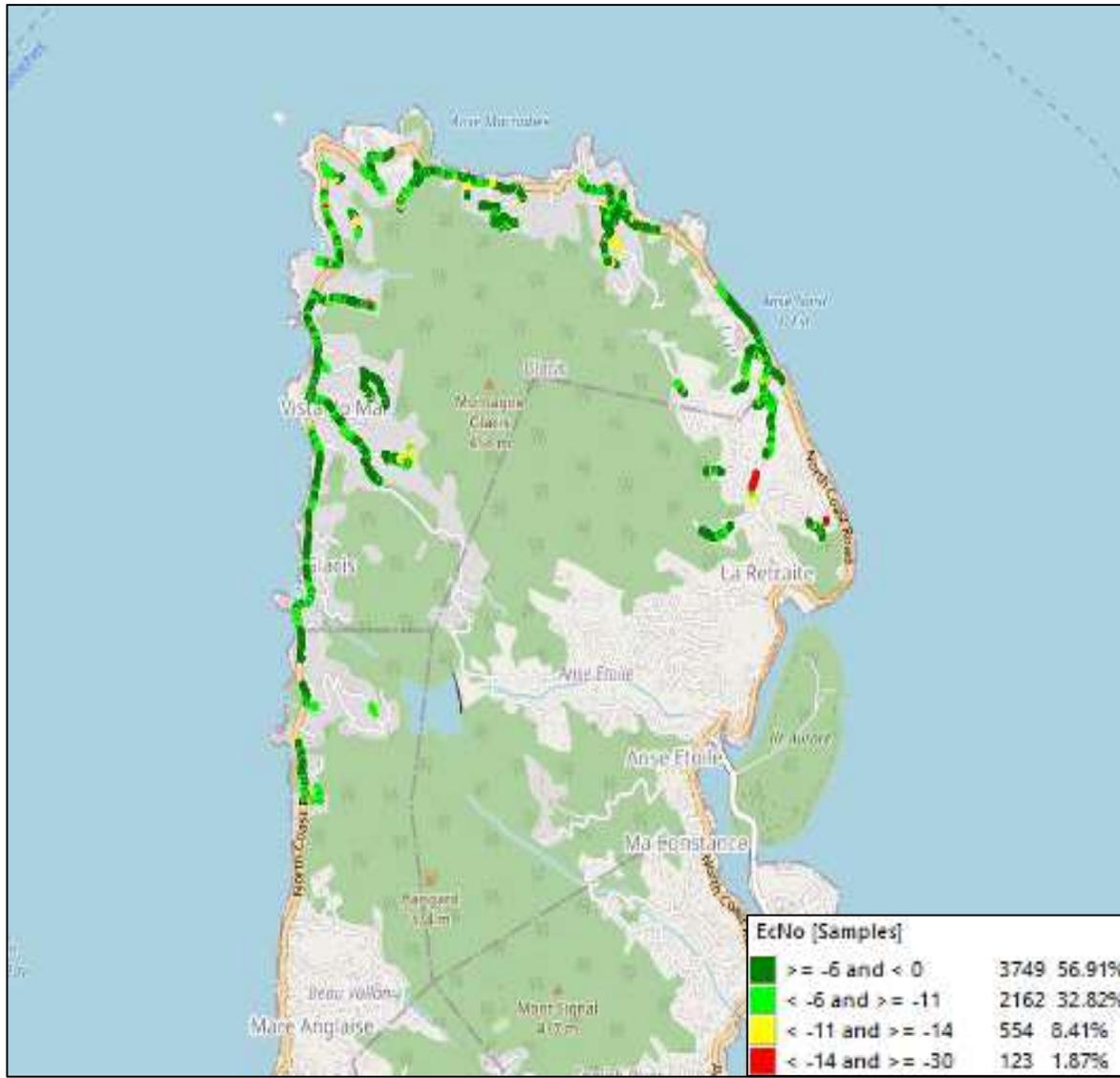
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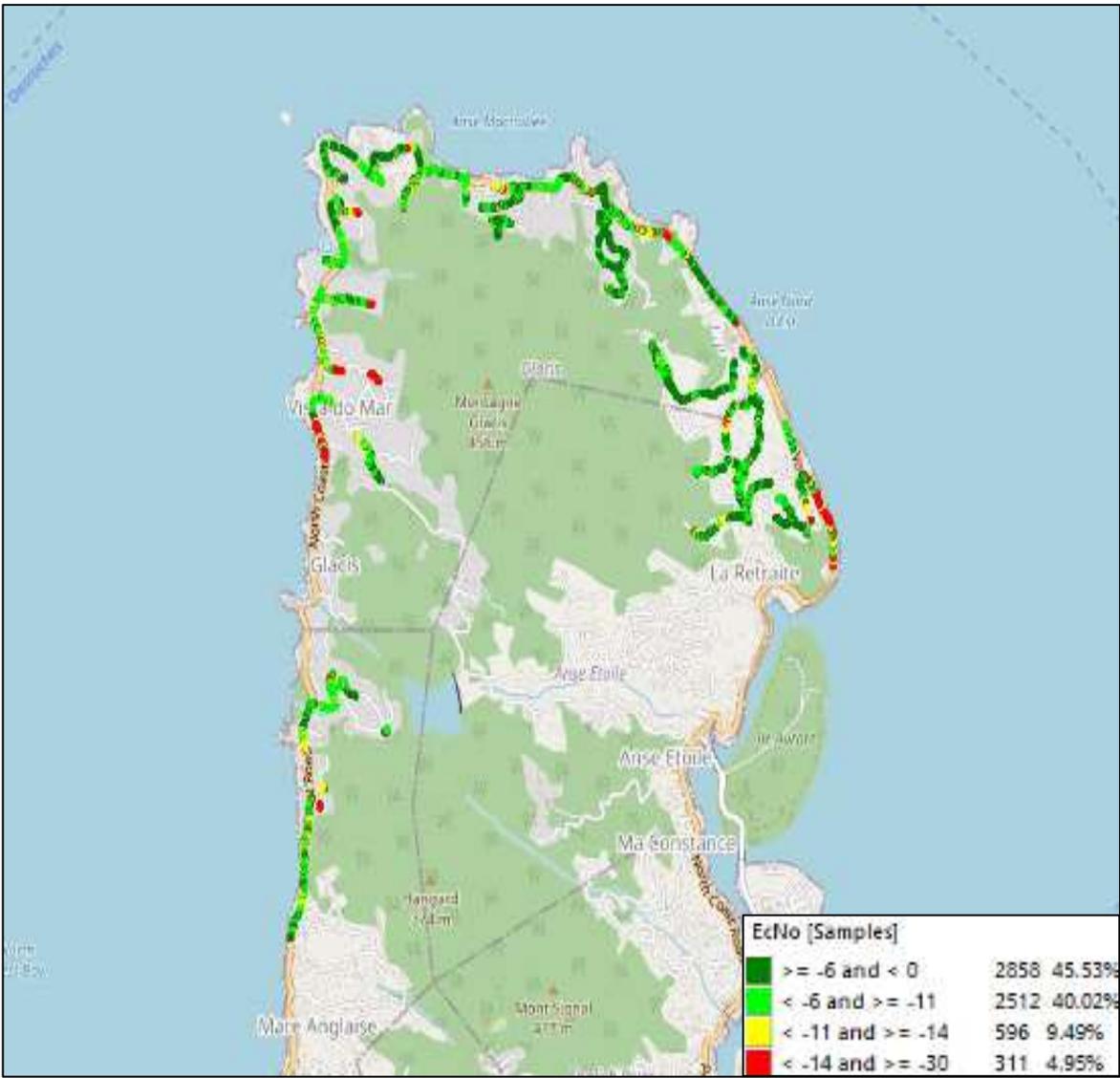
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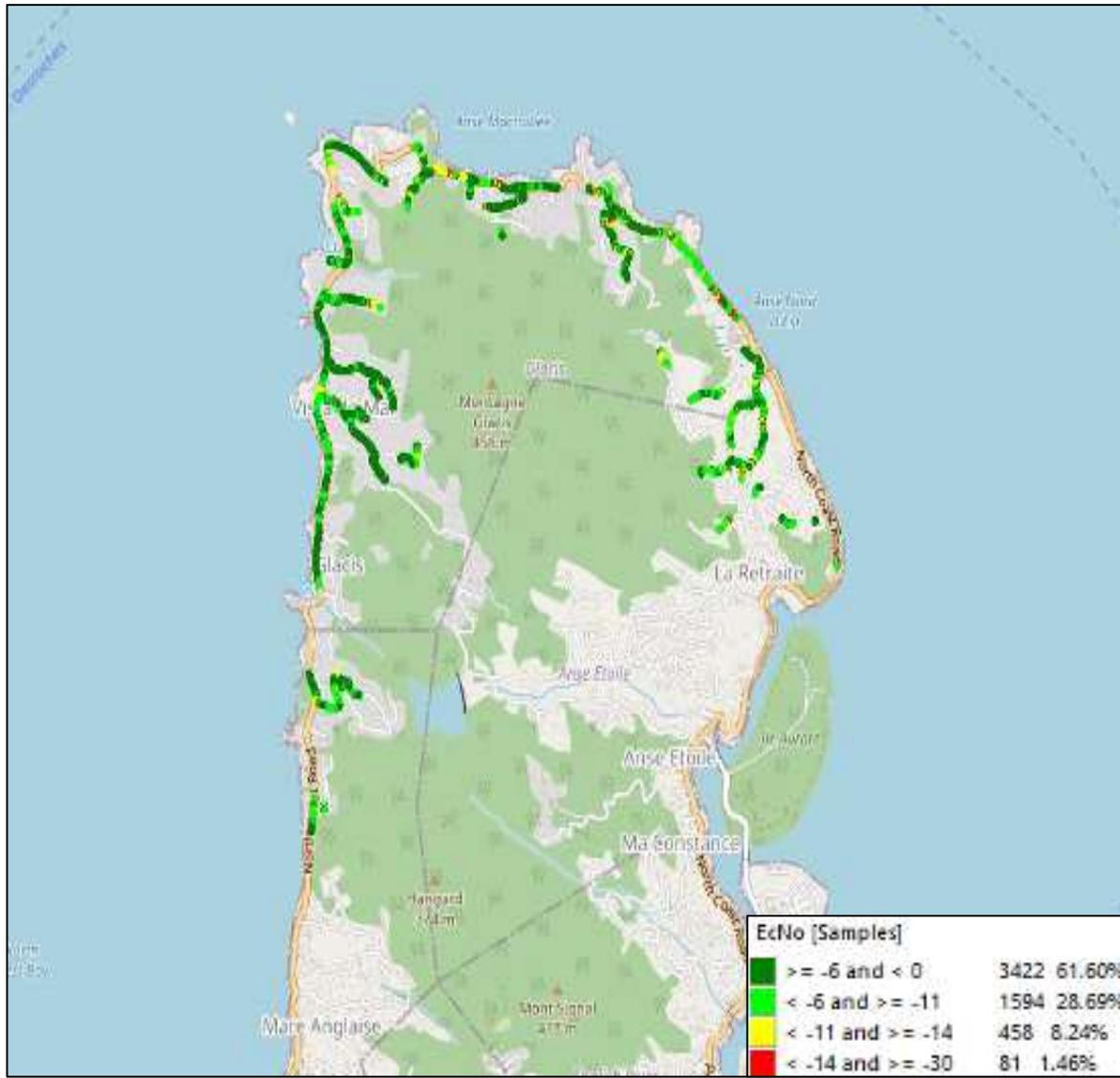
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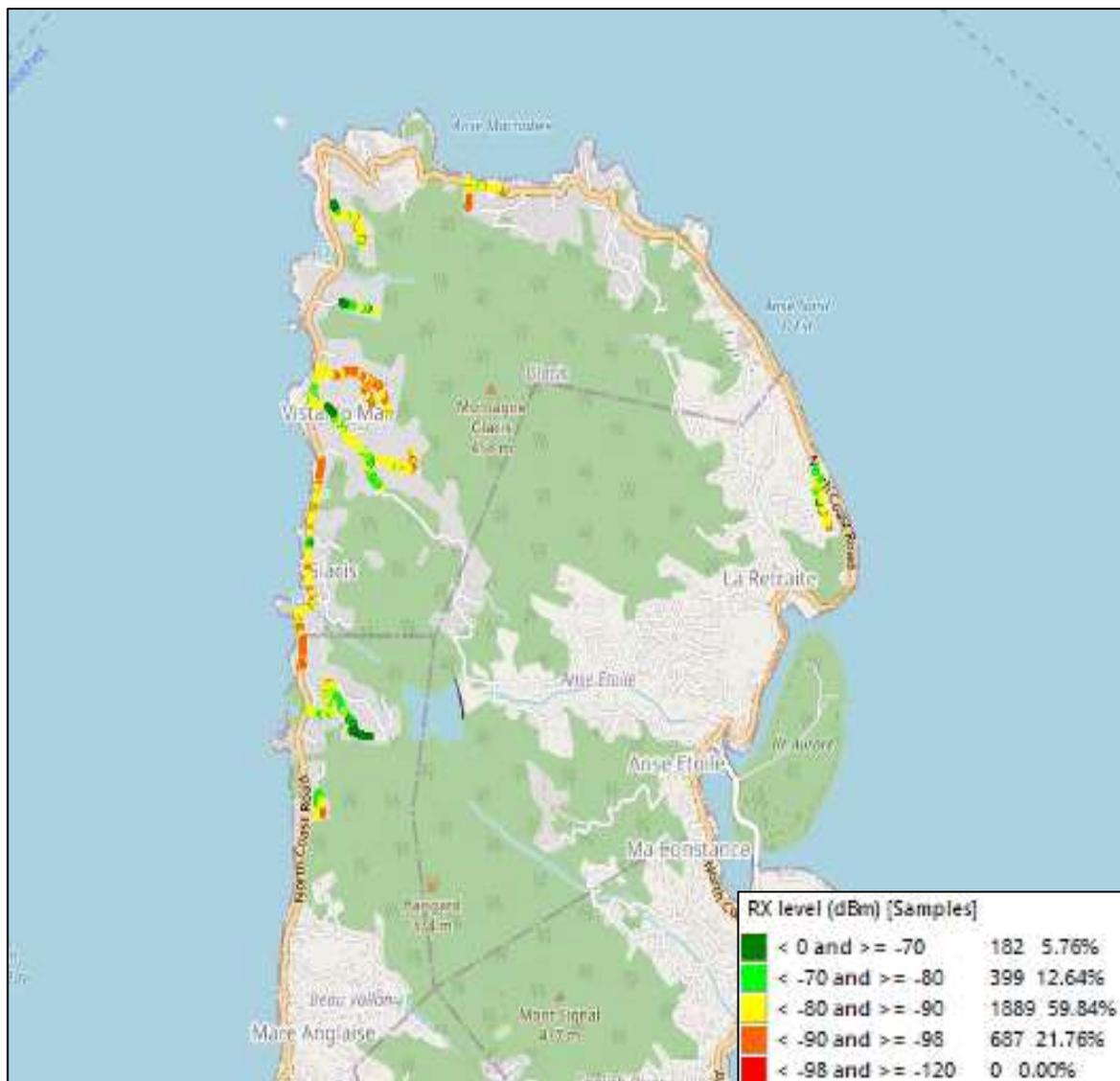
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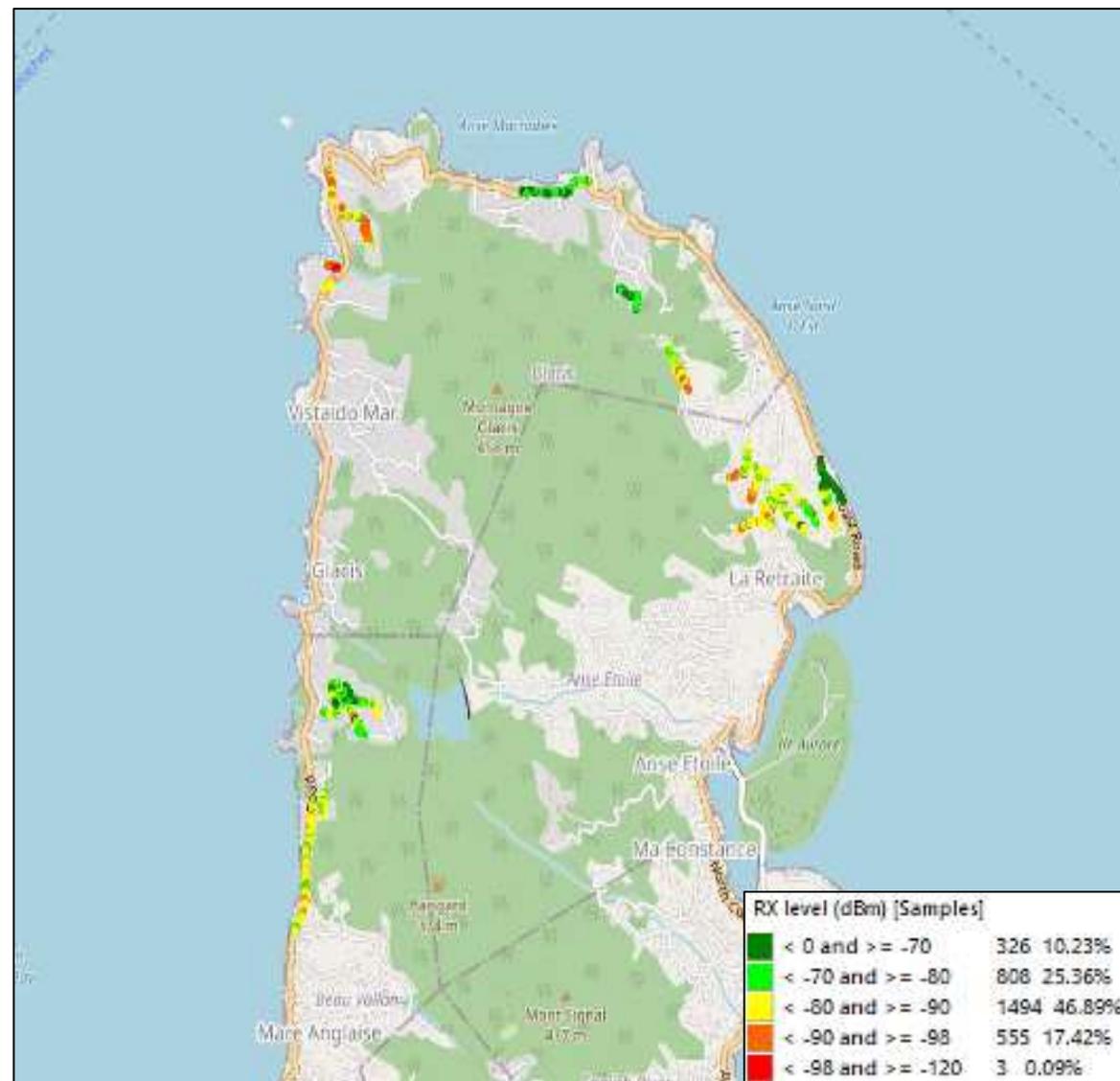
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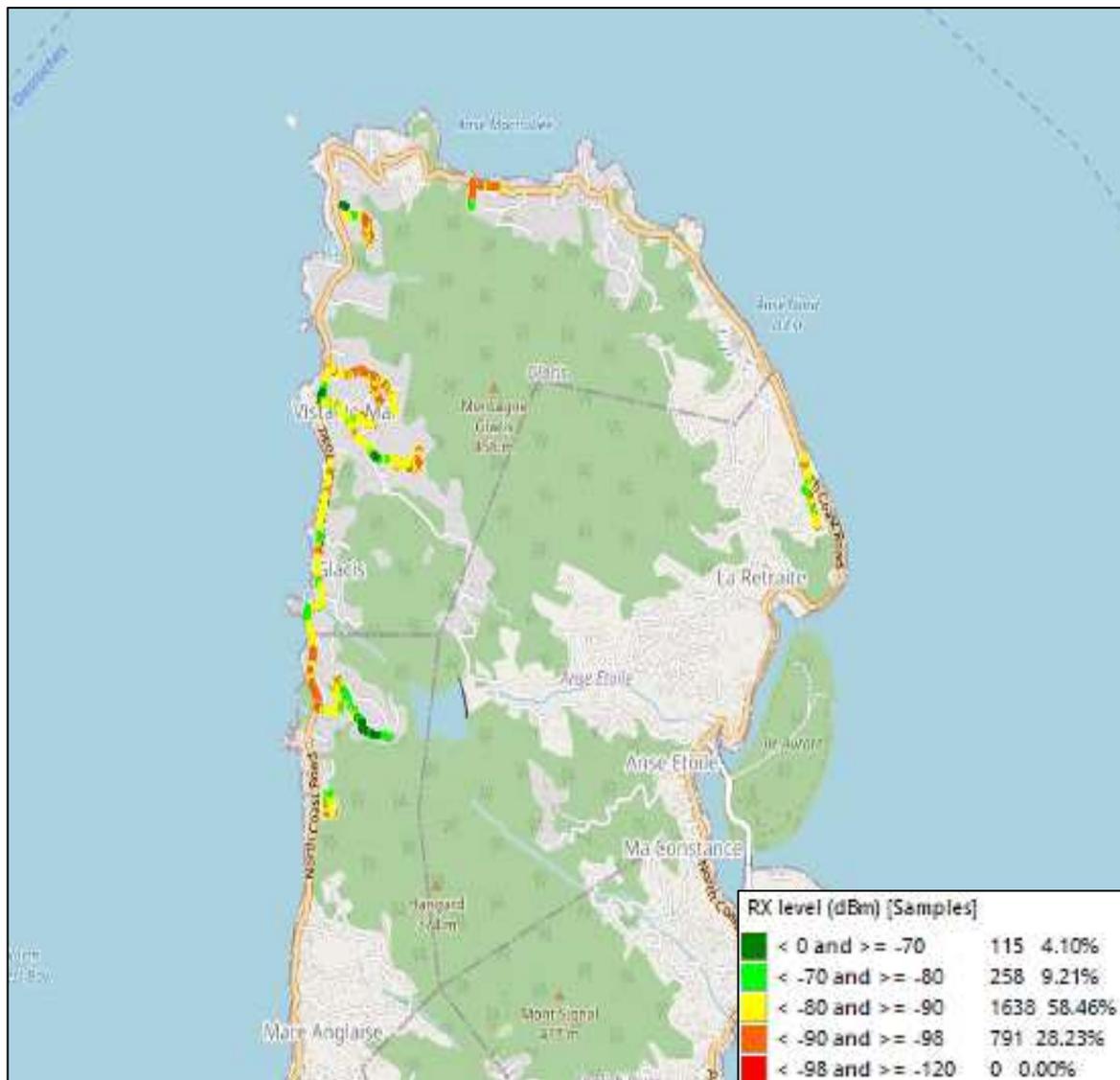
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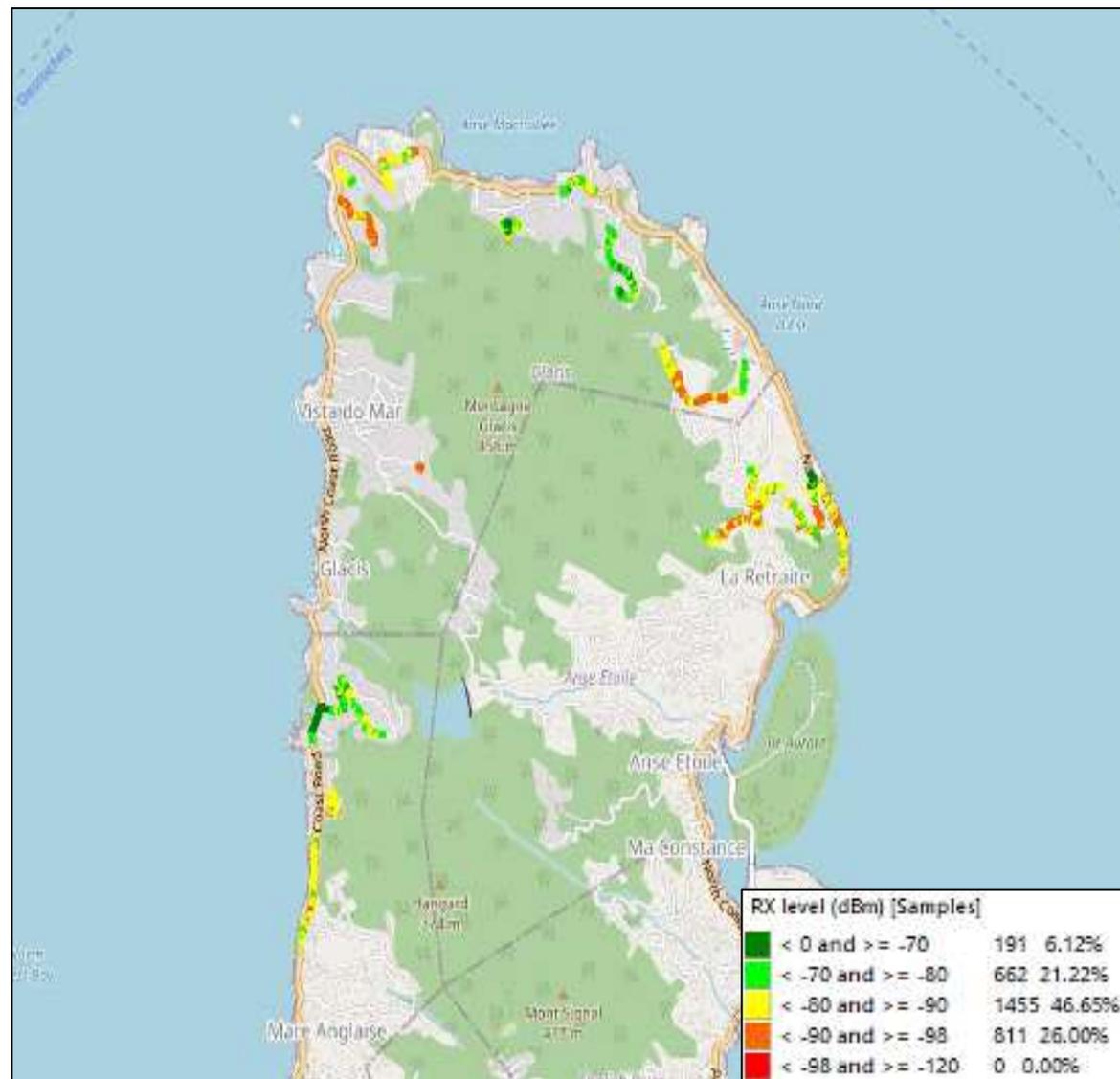
CWS LC MO



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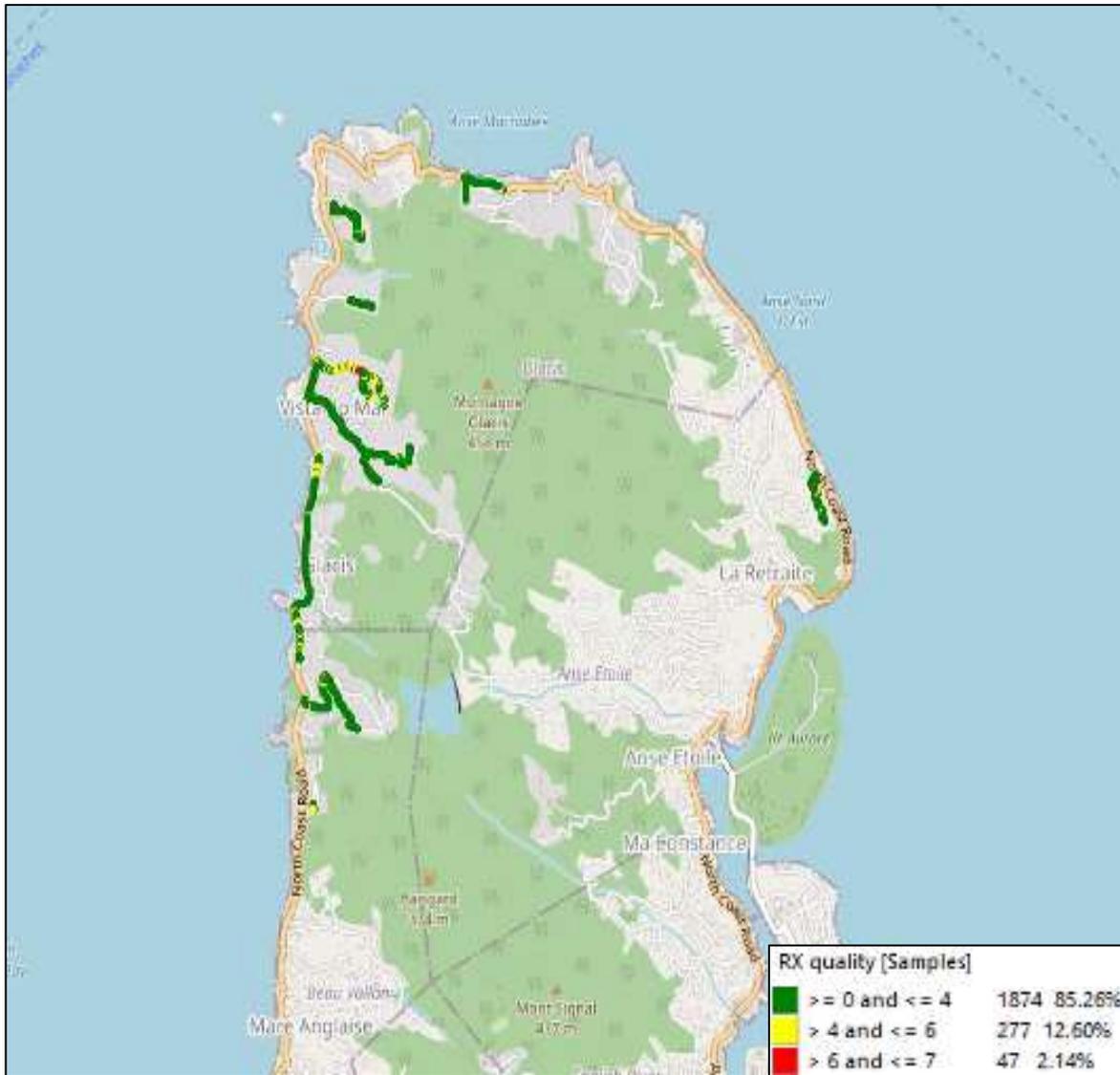


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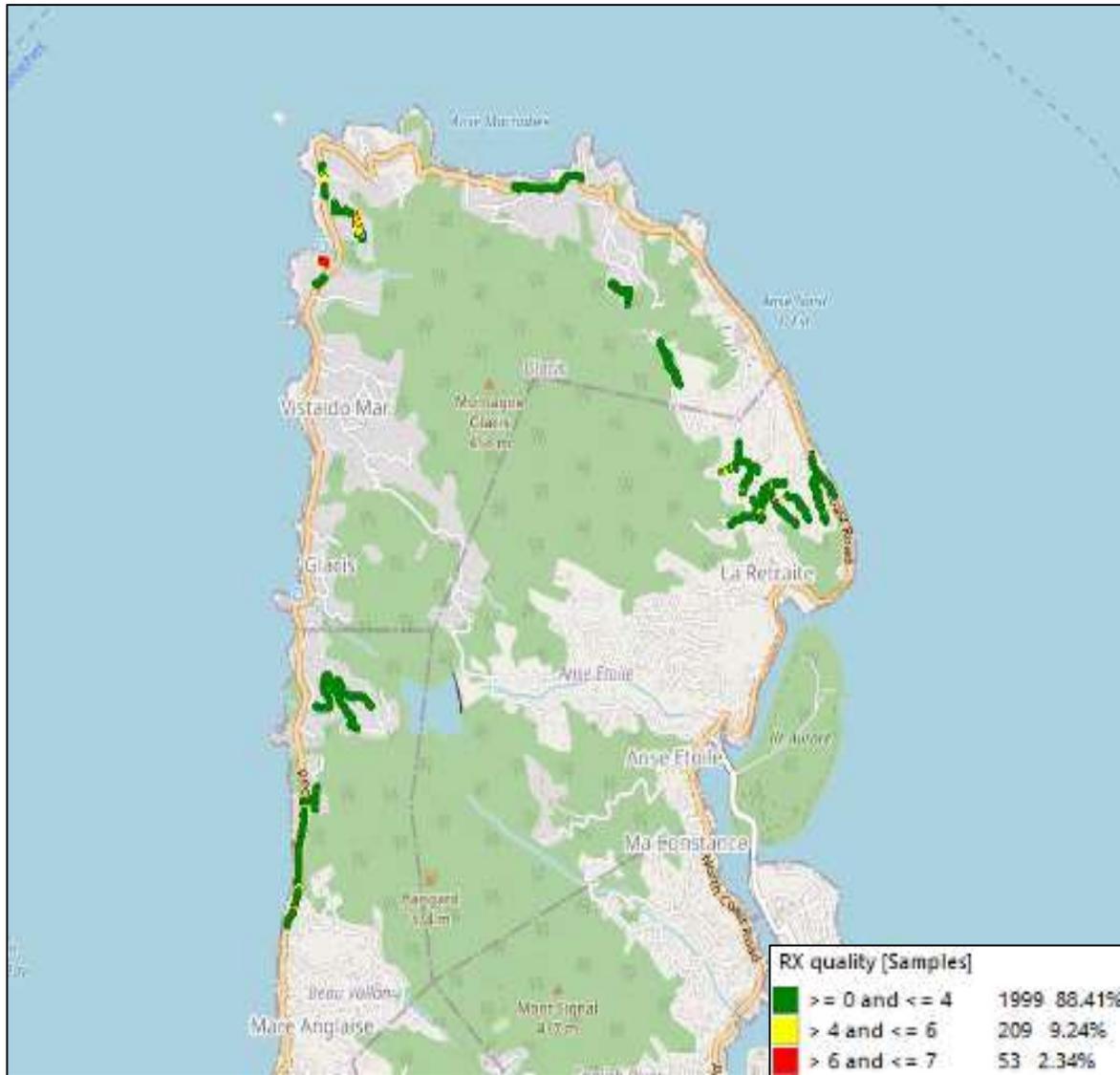


Phase-1 Long Call RX quality sub PLOT

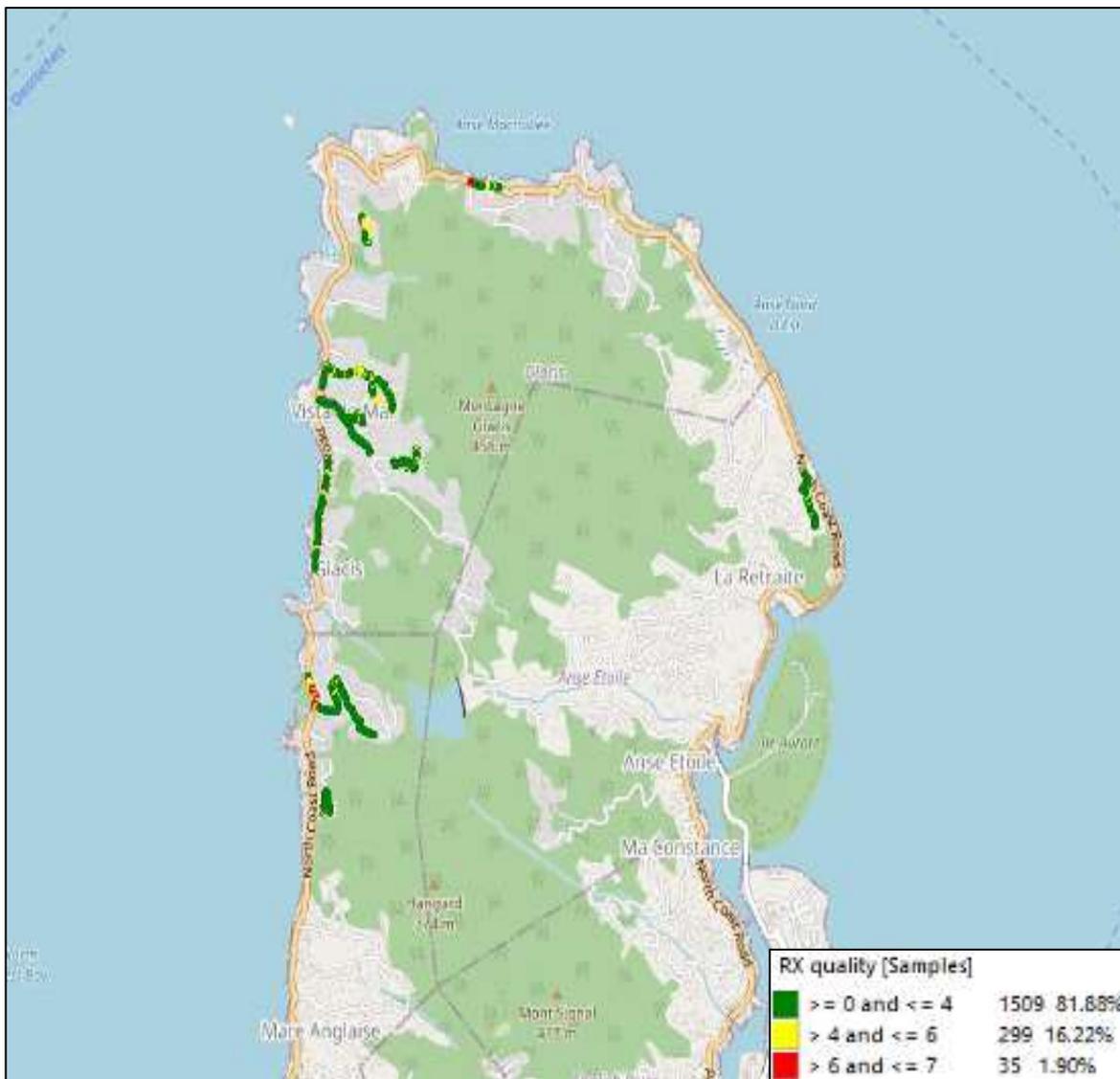
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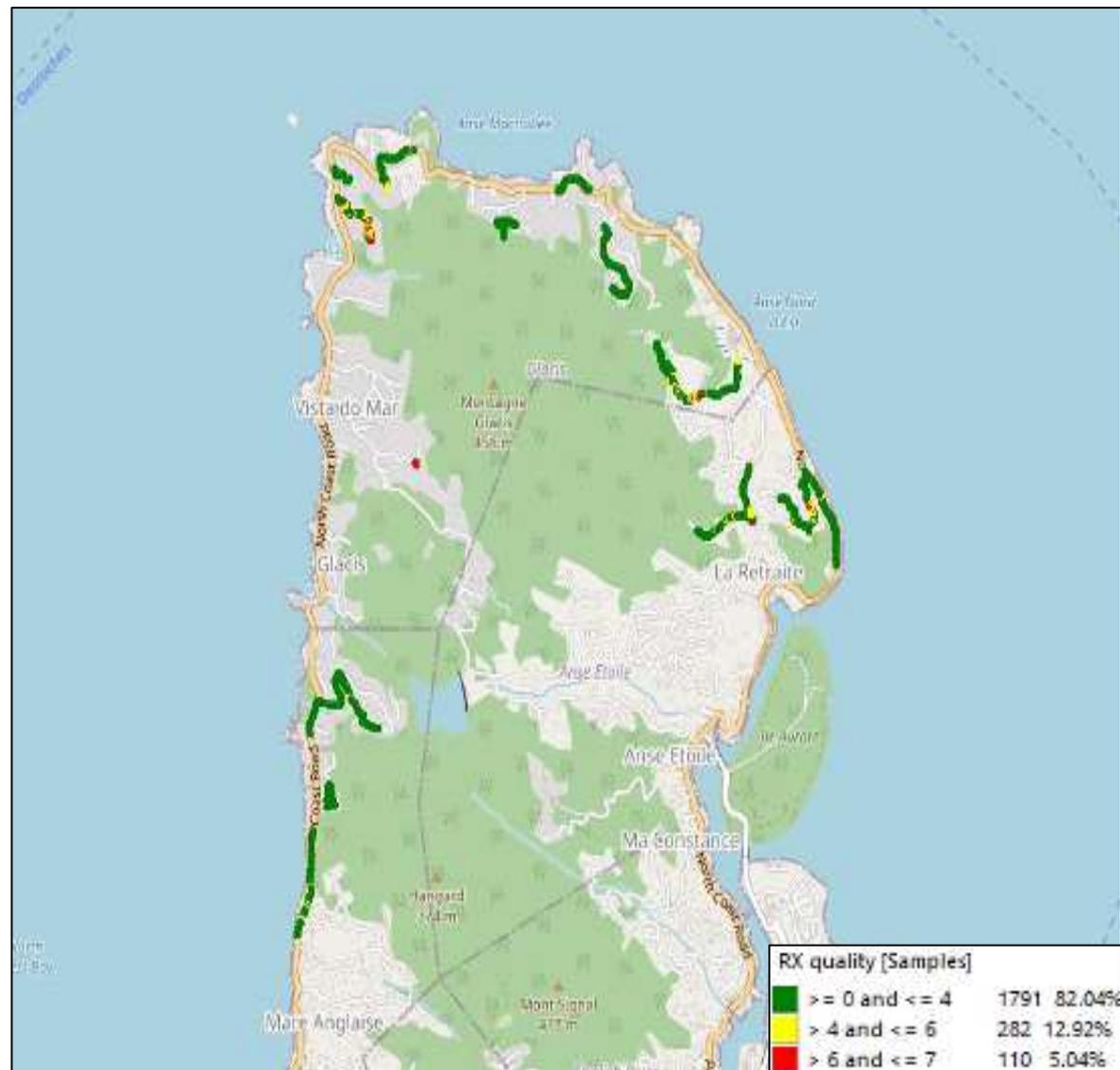
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Airtel LC MO

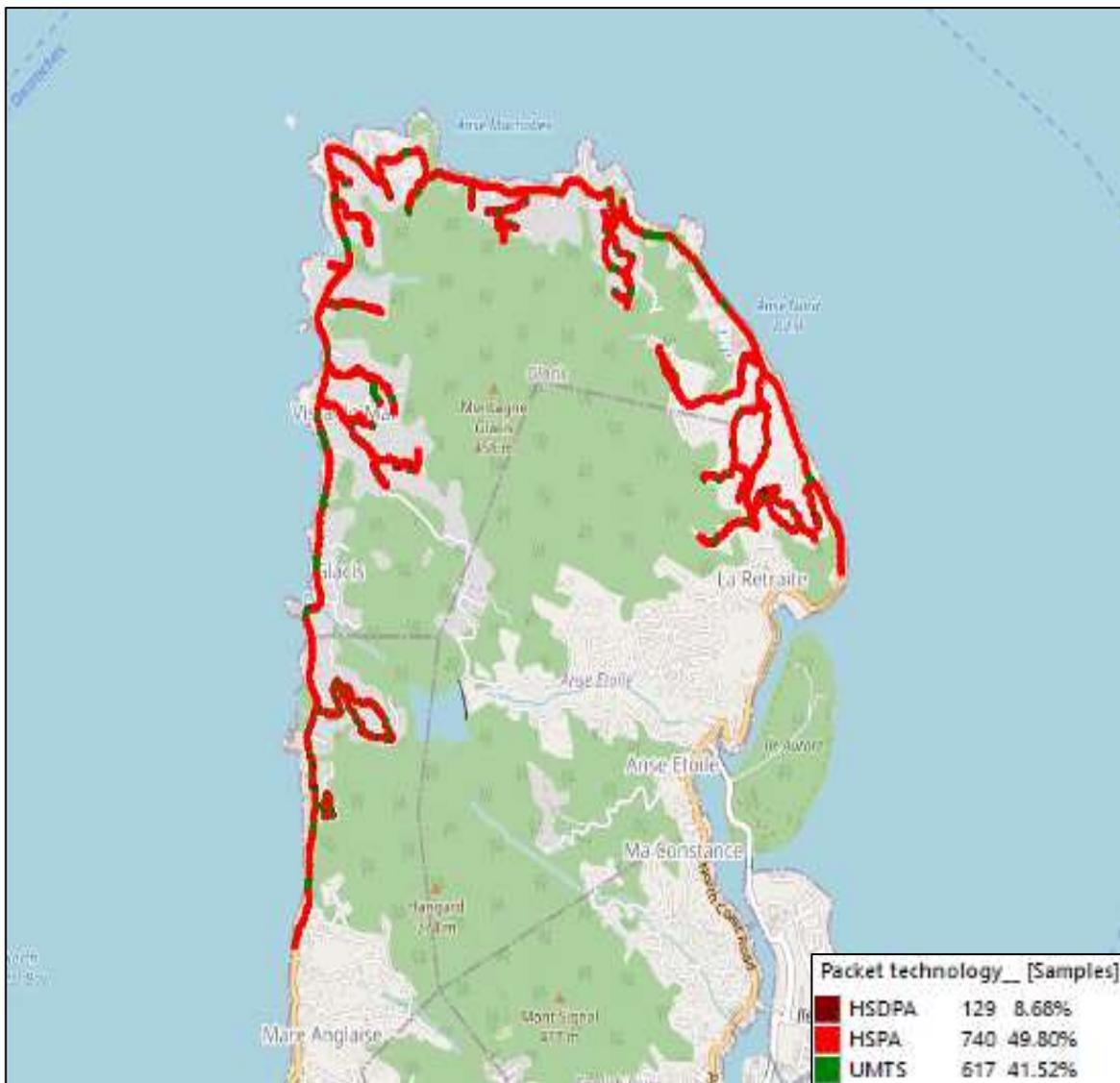


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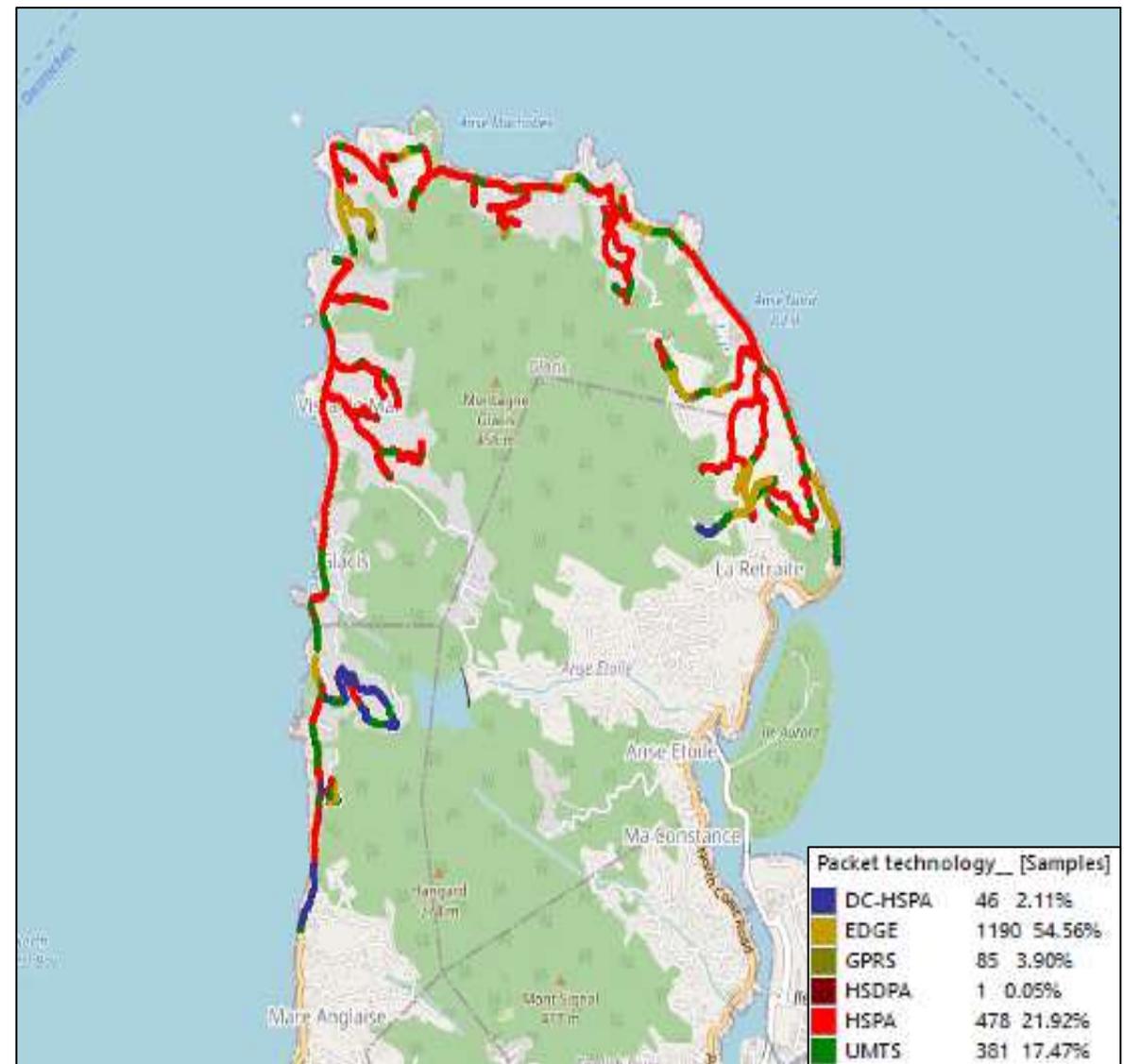


3G PREFERRED DATA DRIVE PLOTS

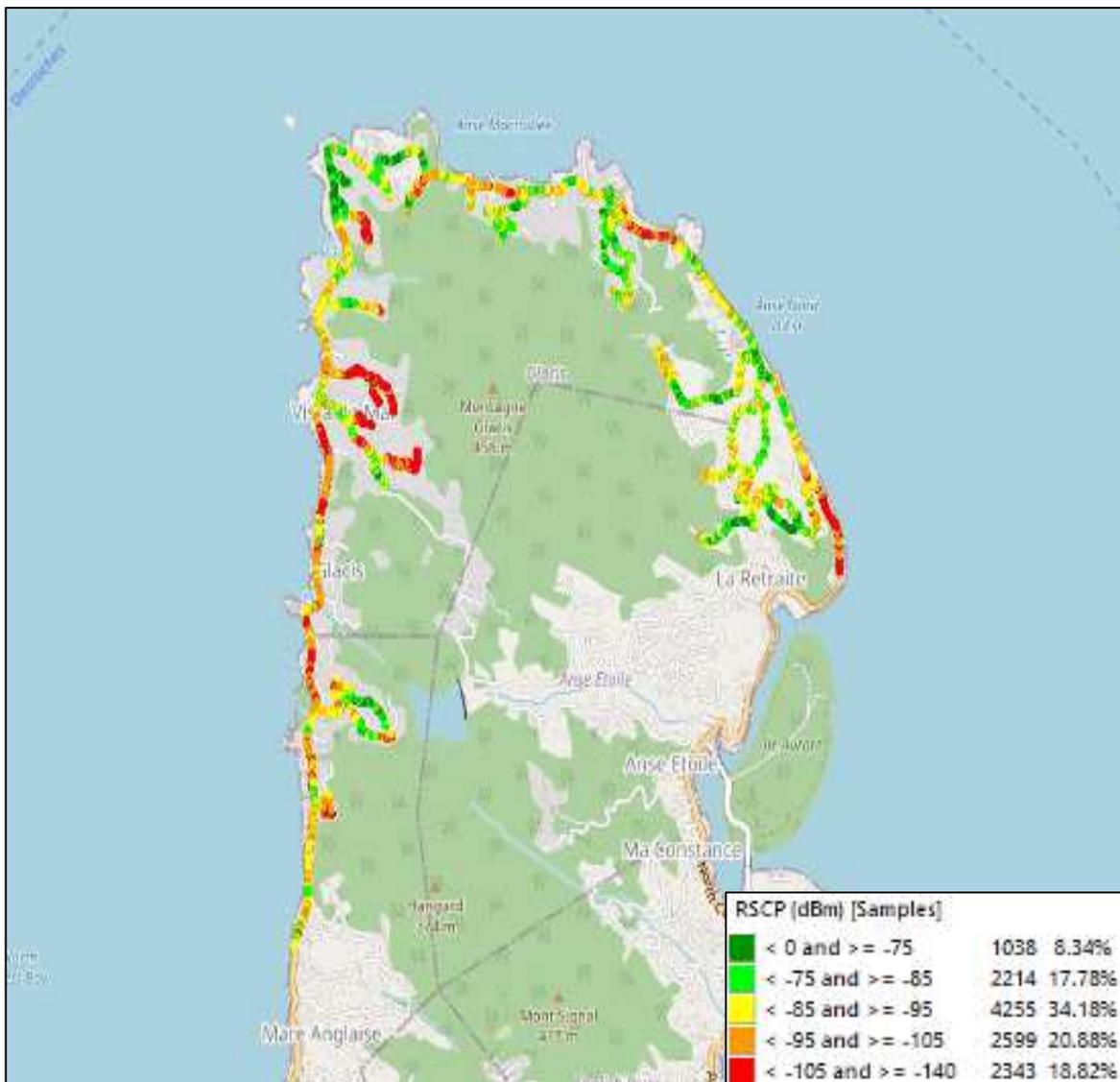
Airtel Data 3G



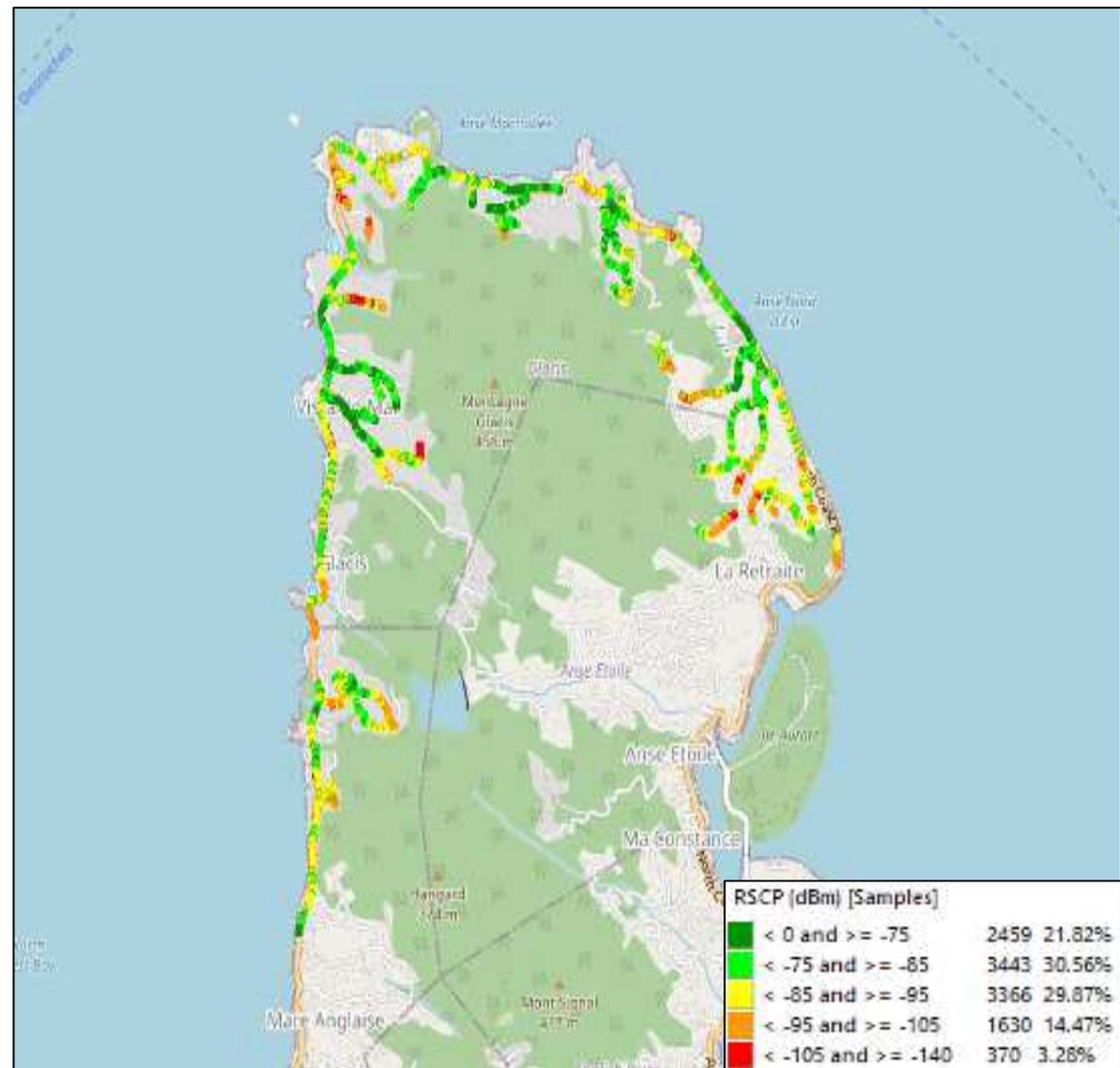
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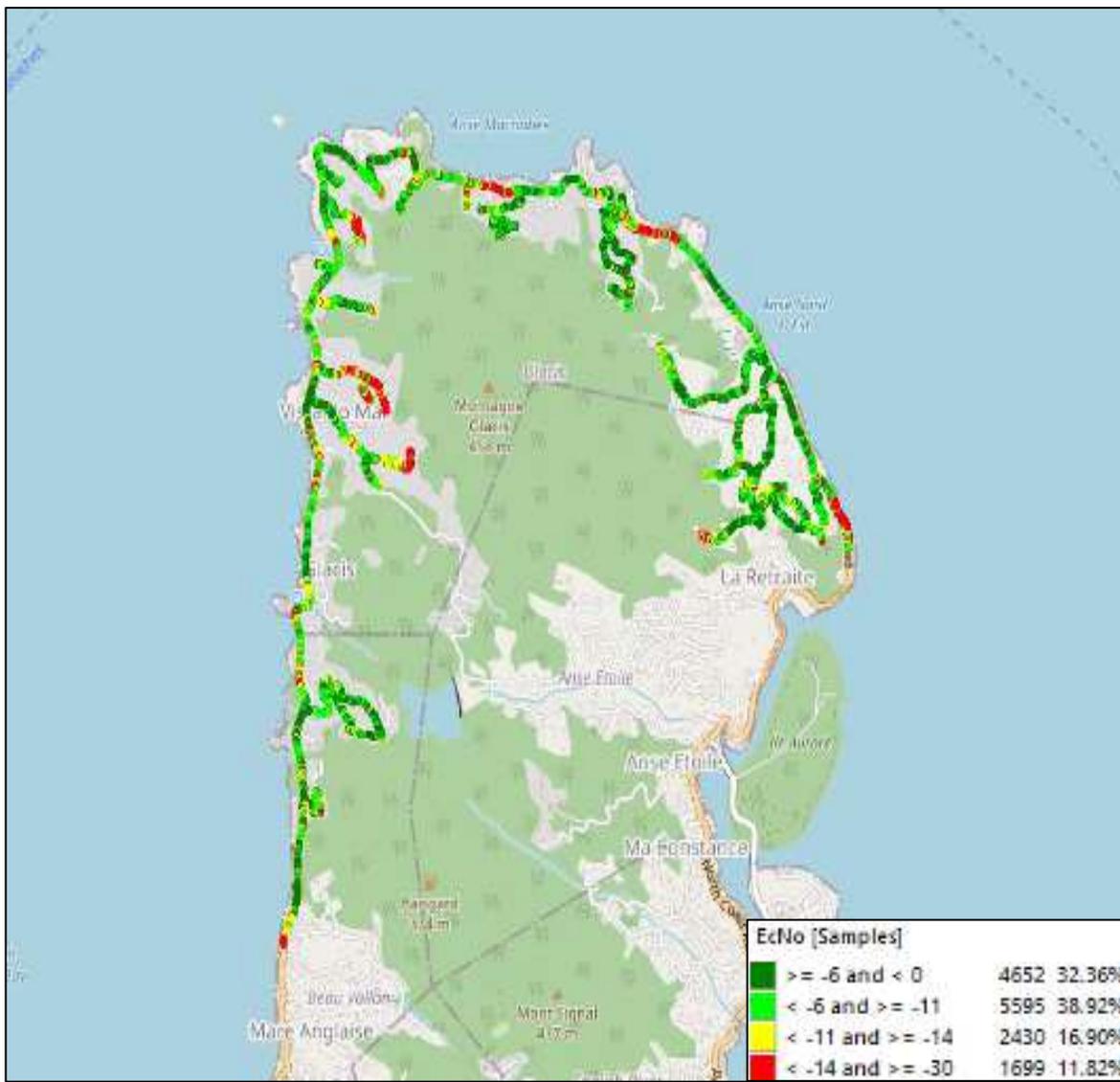
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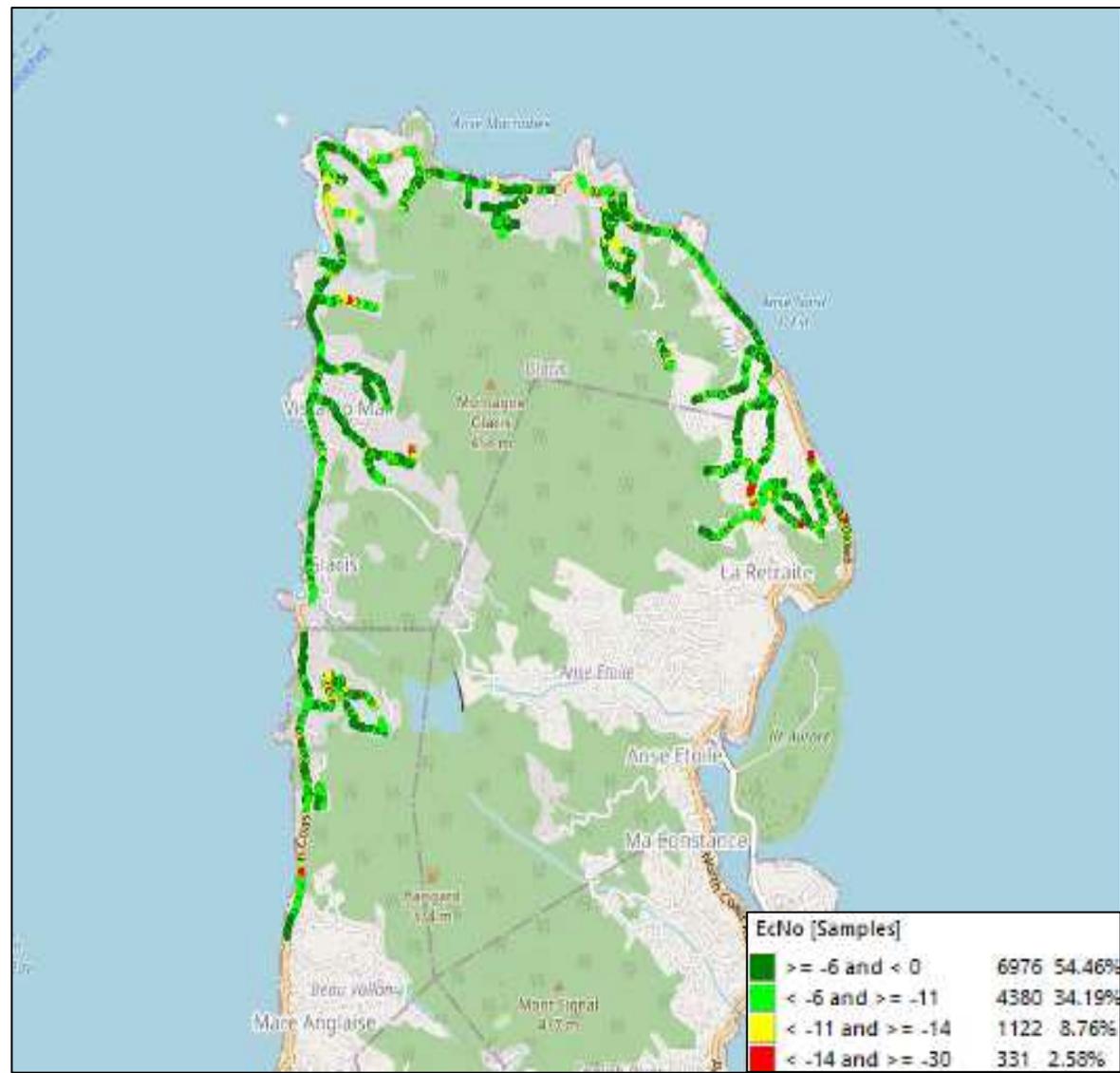
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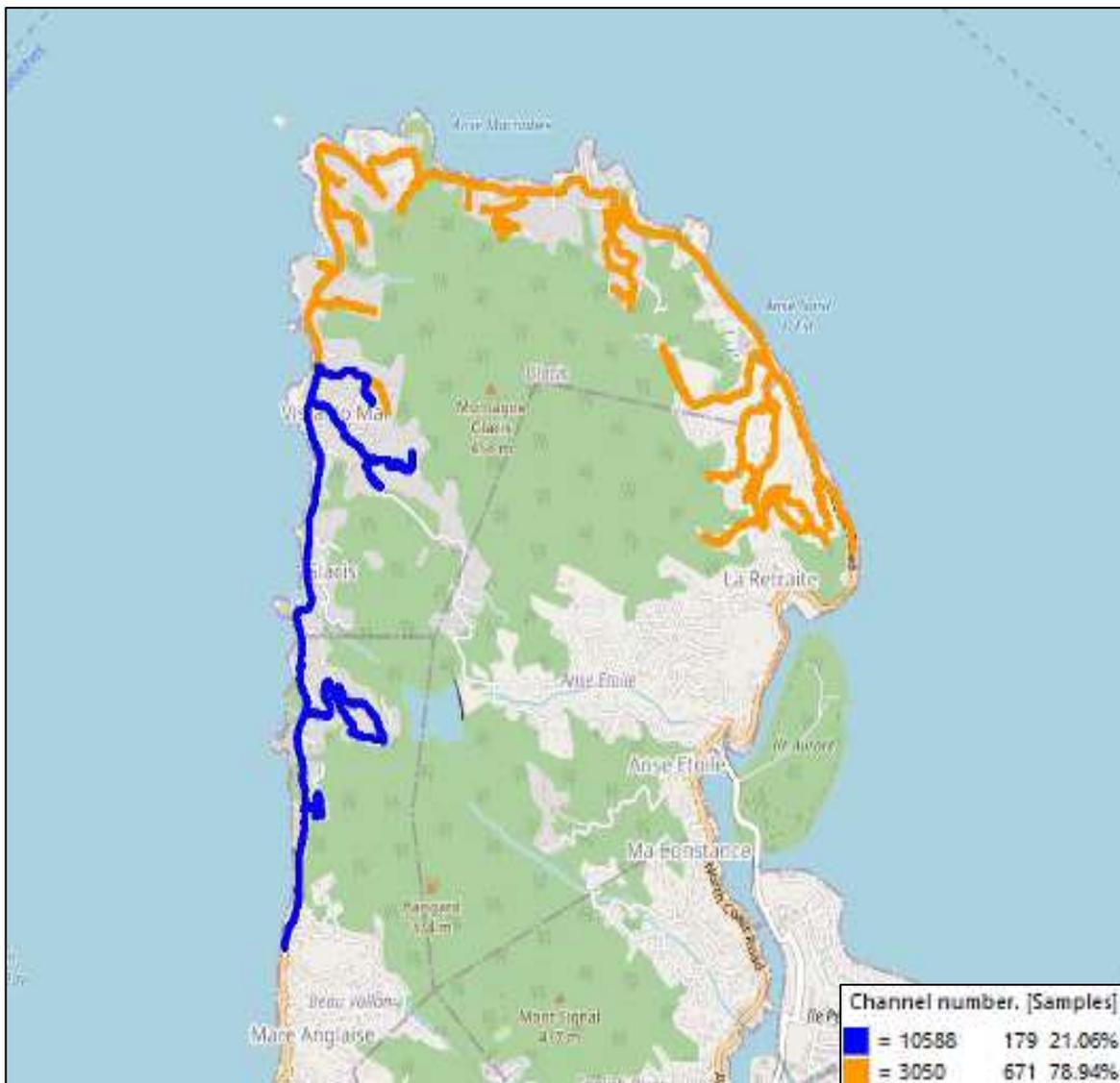
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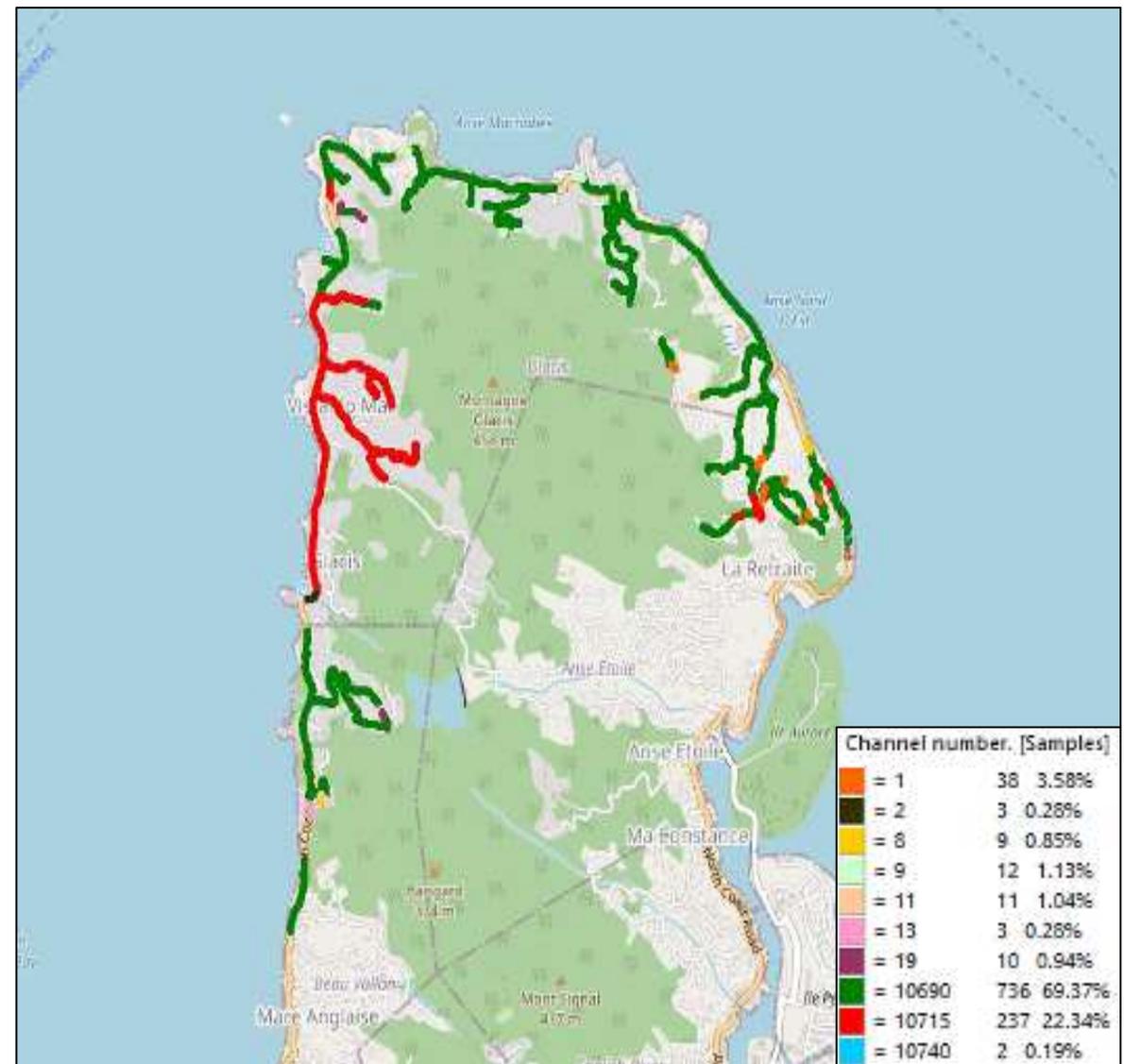
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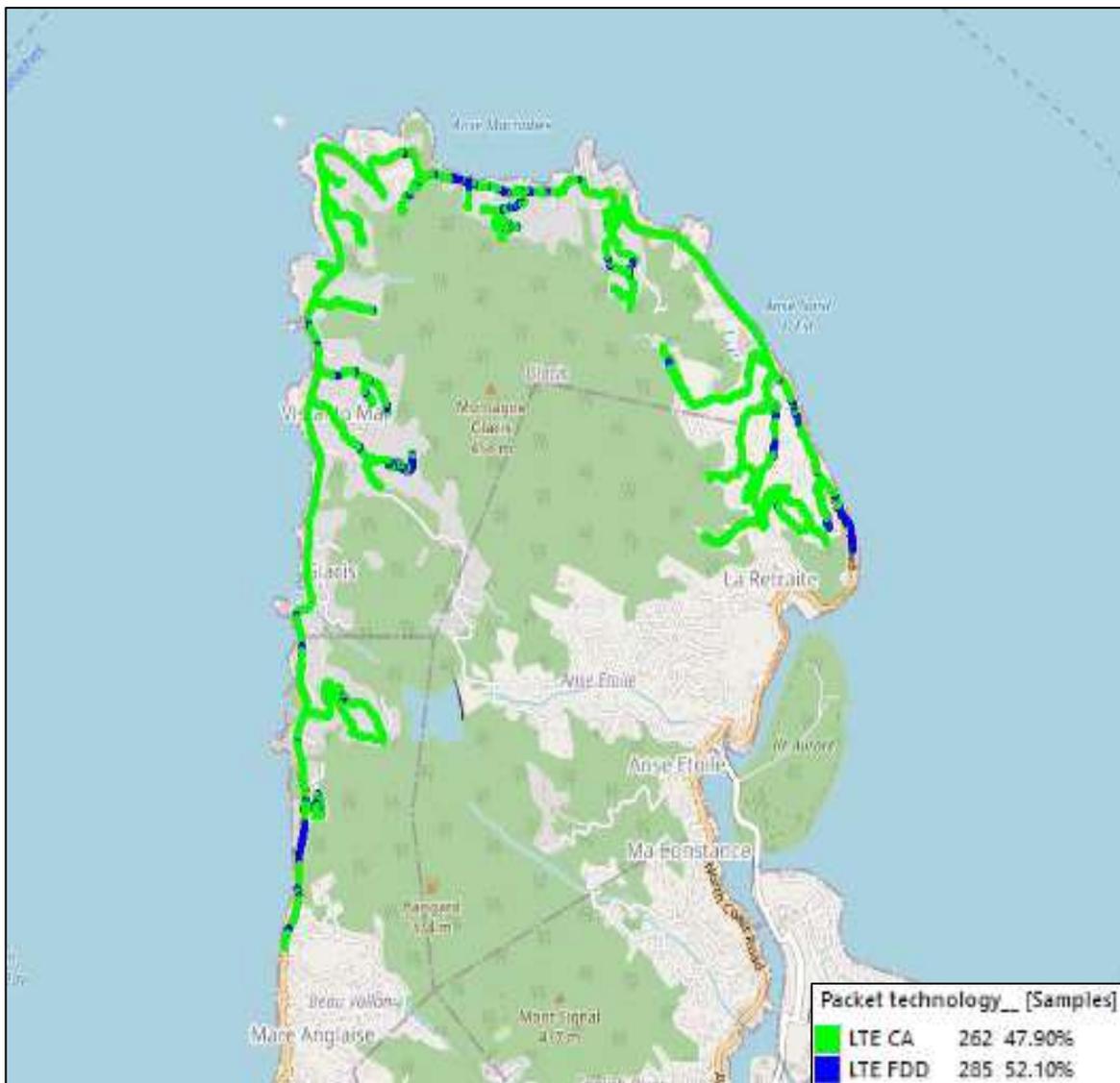


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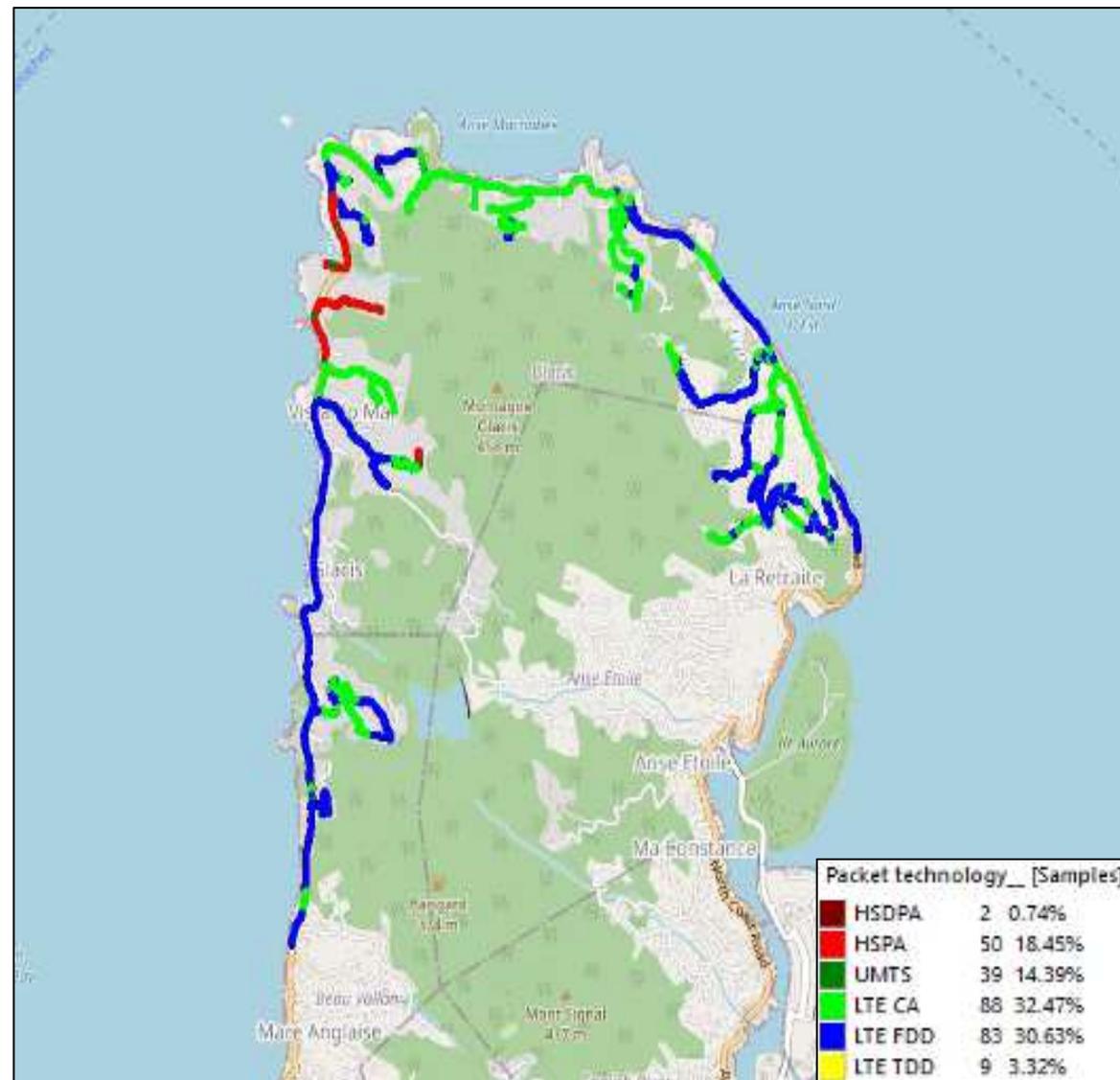


4G PREFERRED DATA DRIVE PLOTS

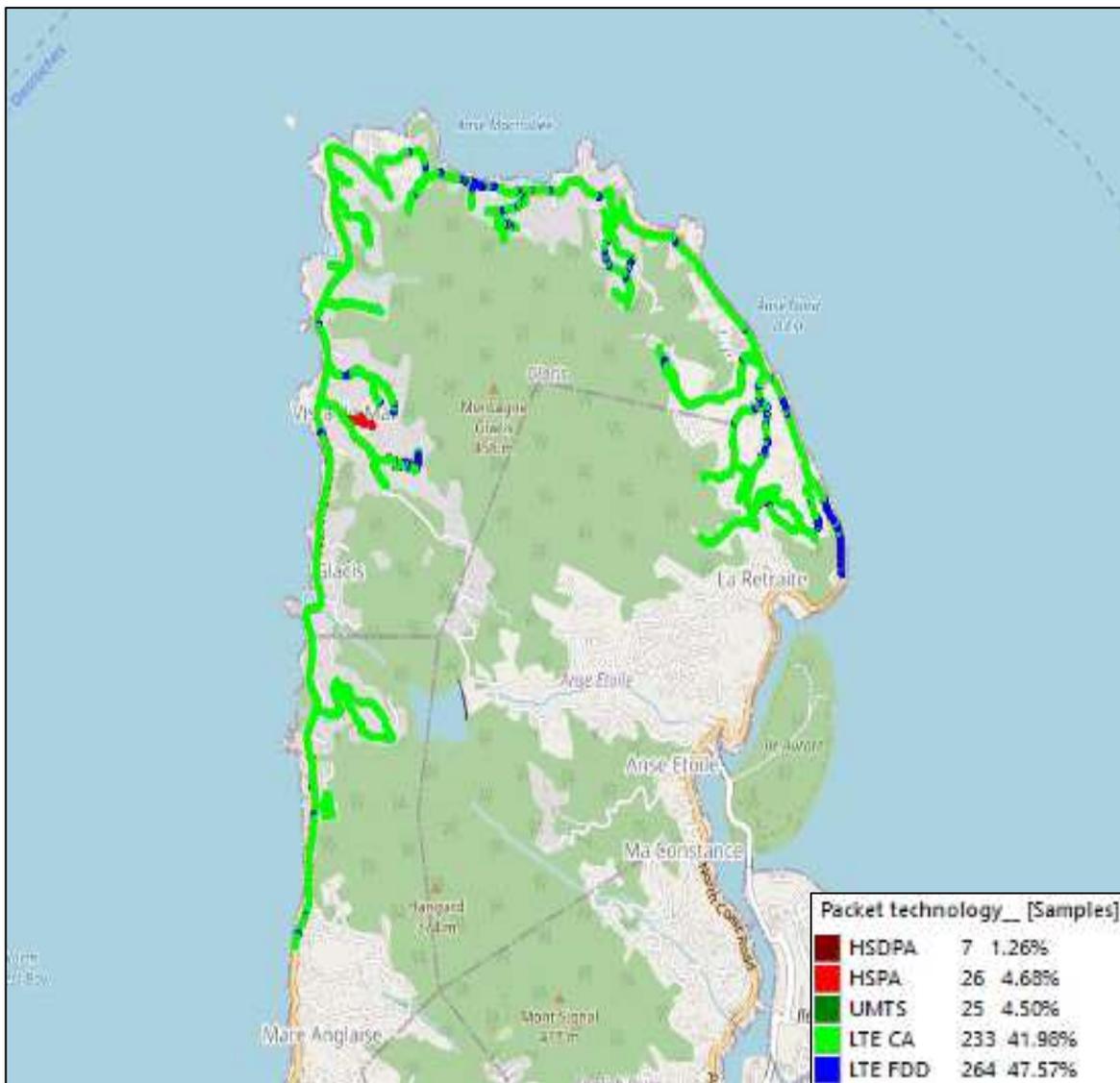
Airtel Data 4G



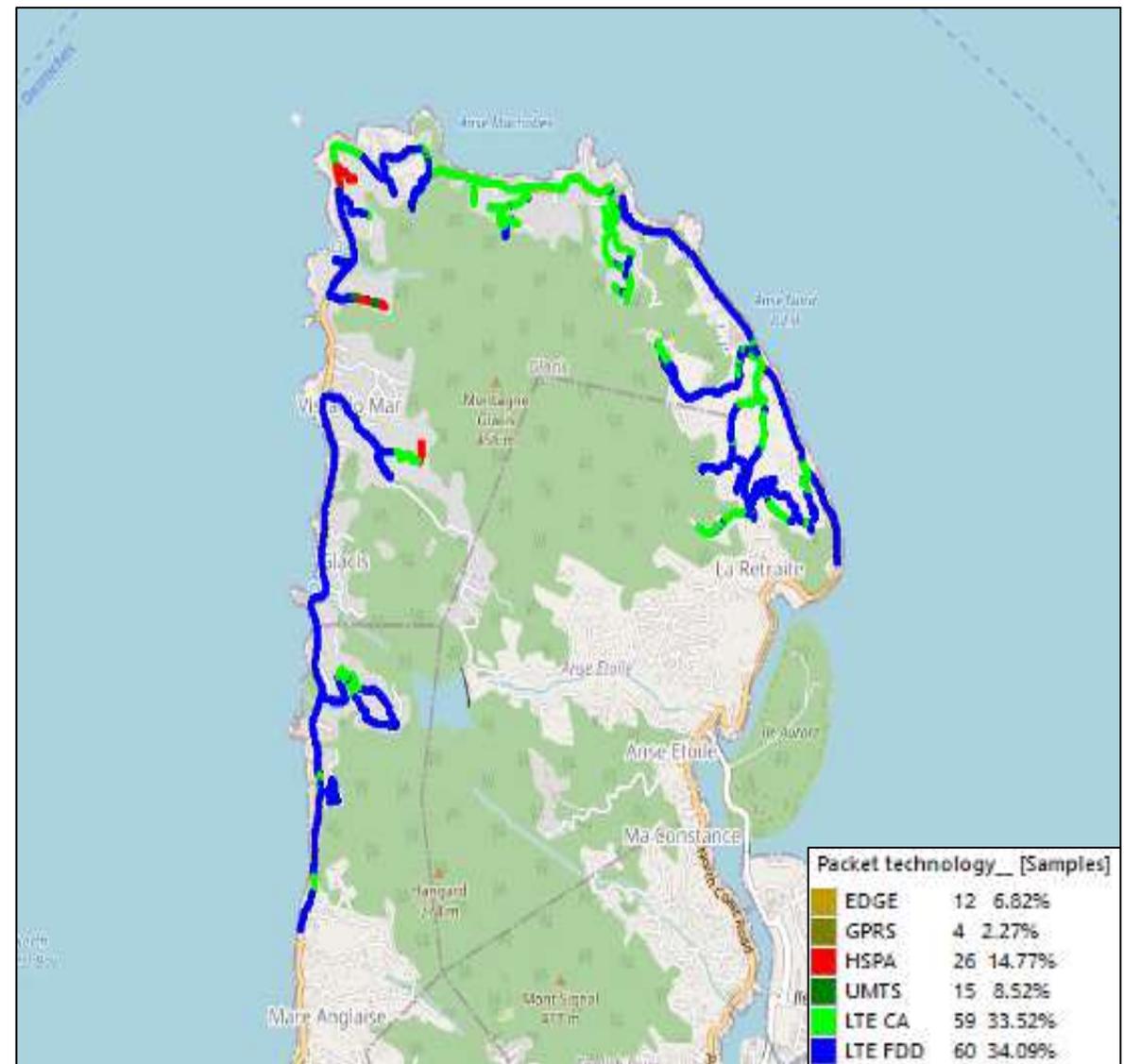
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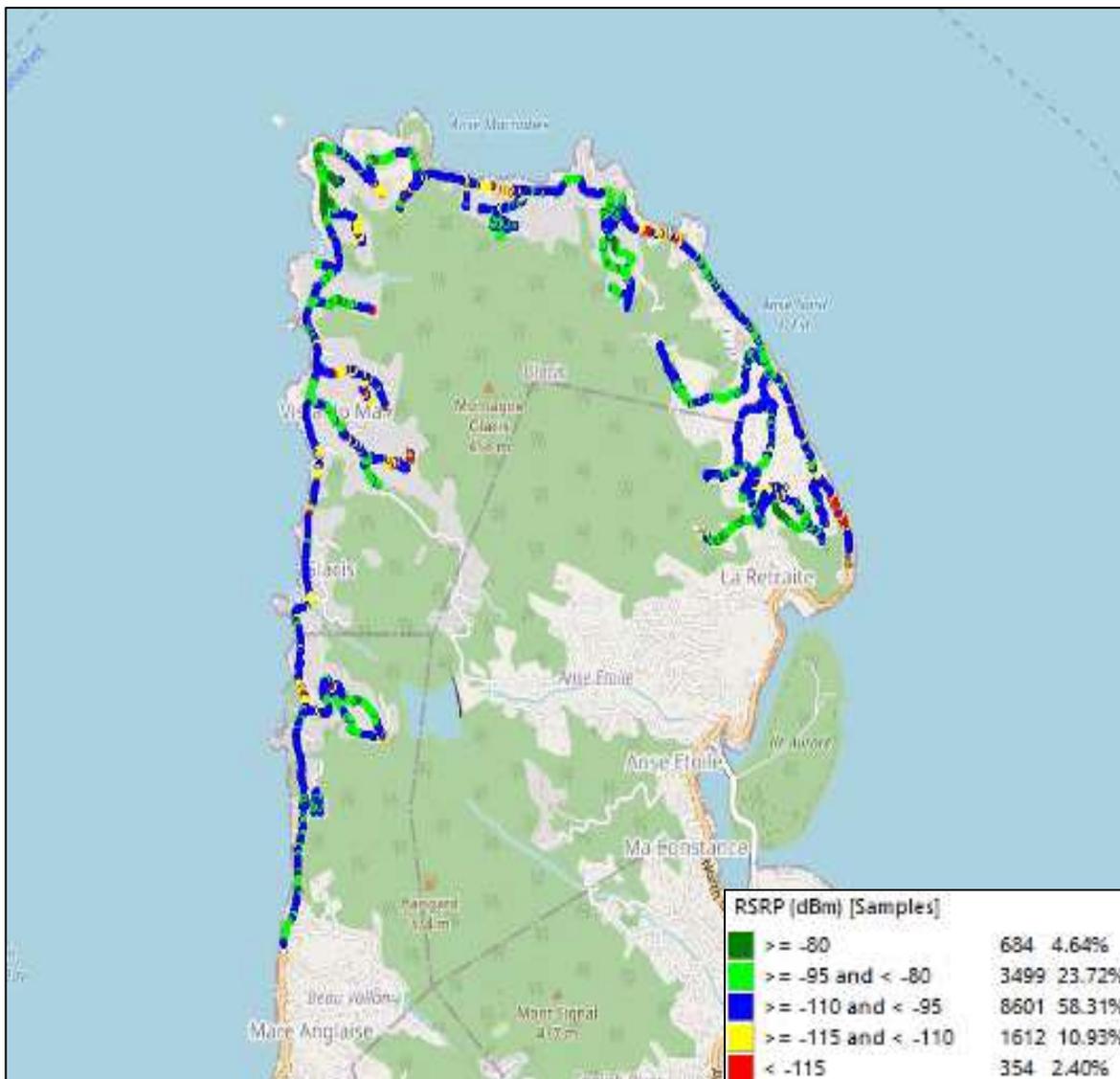
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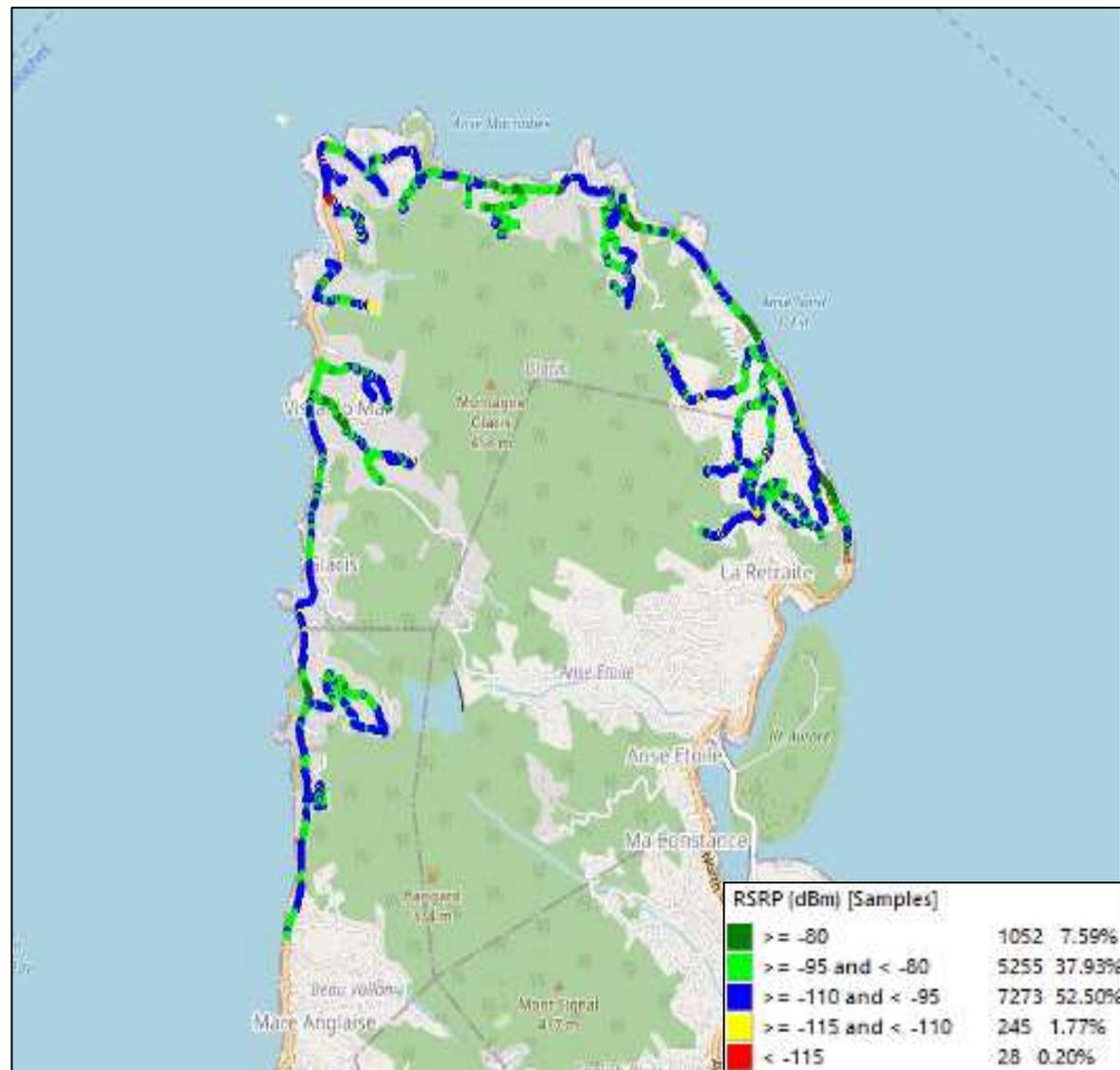
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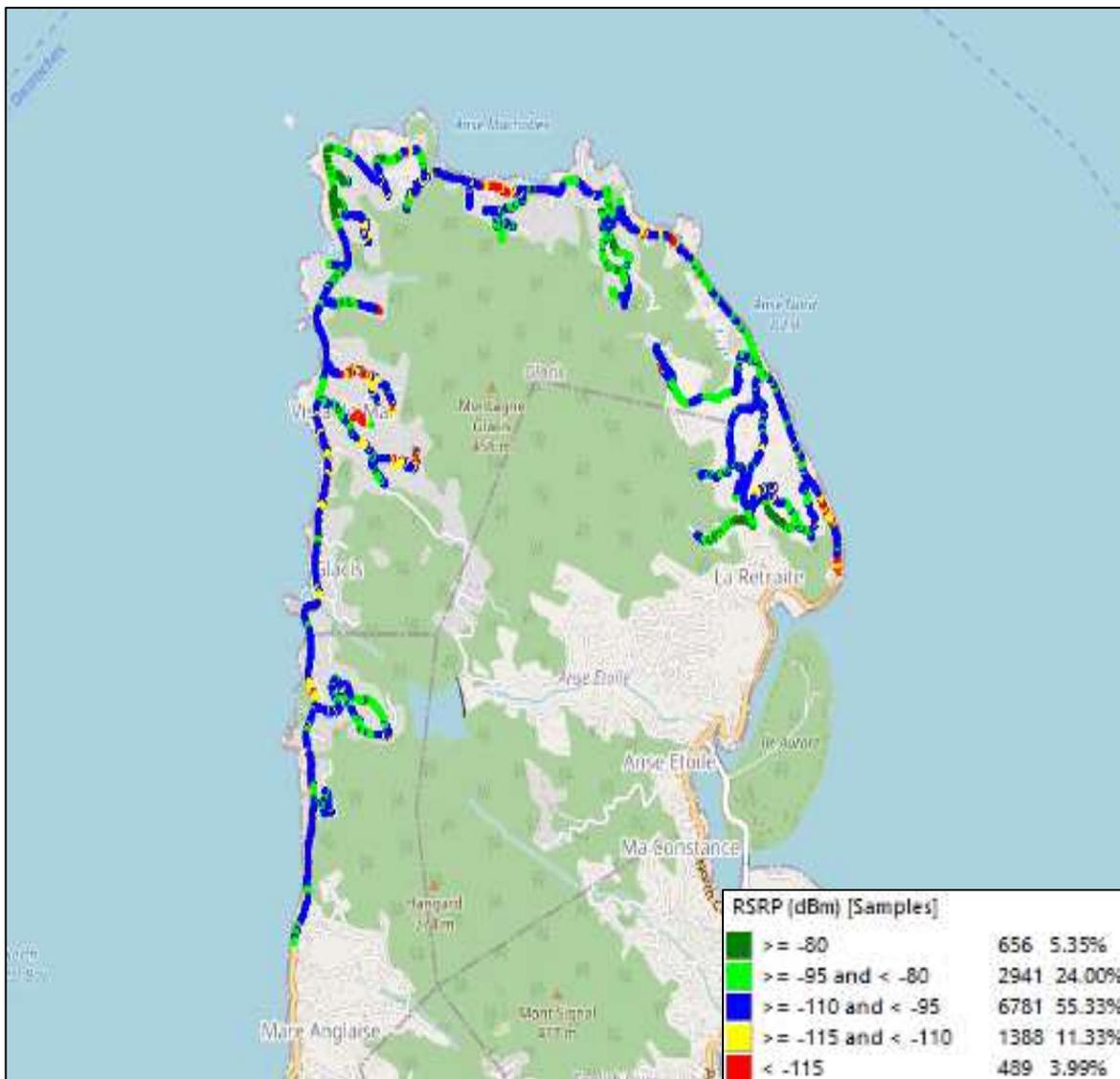
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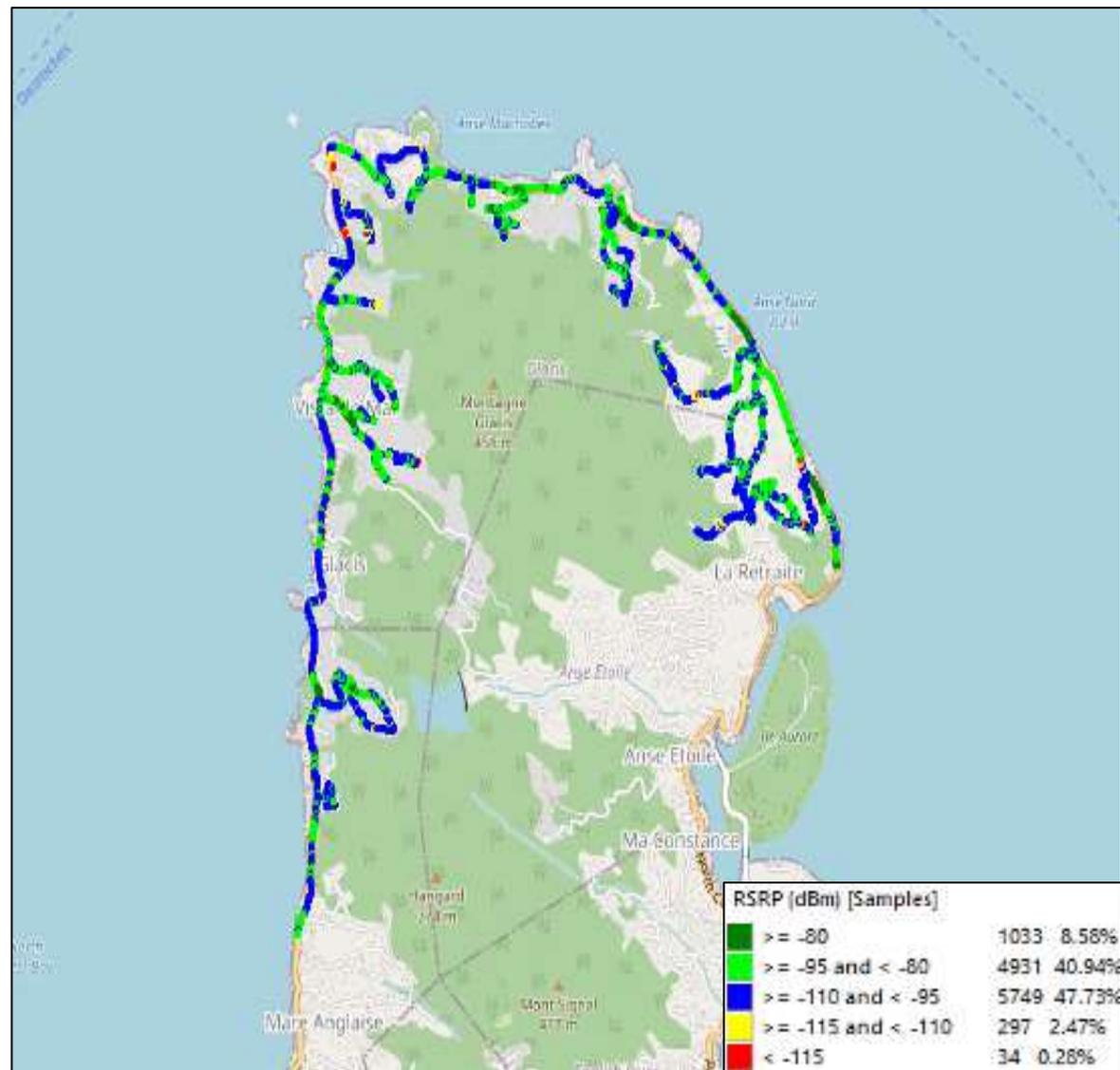
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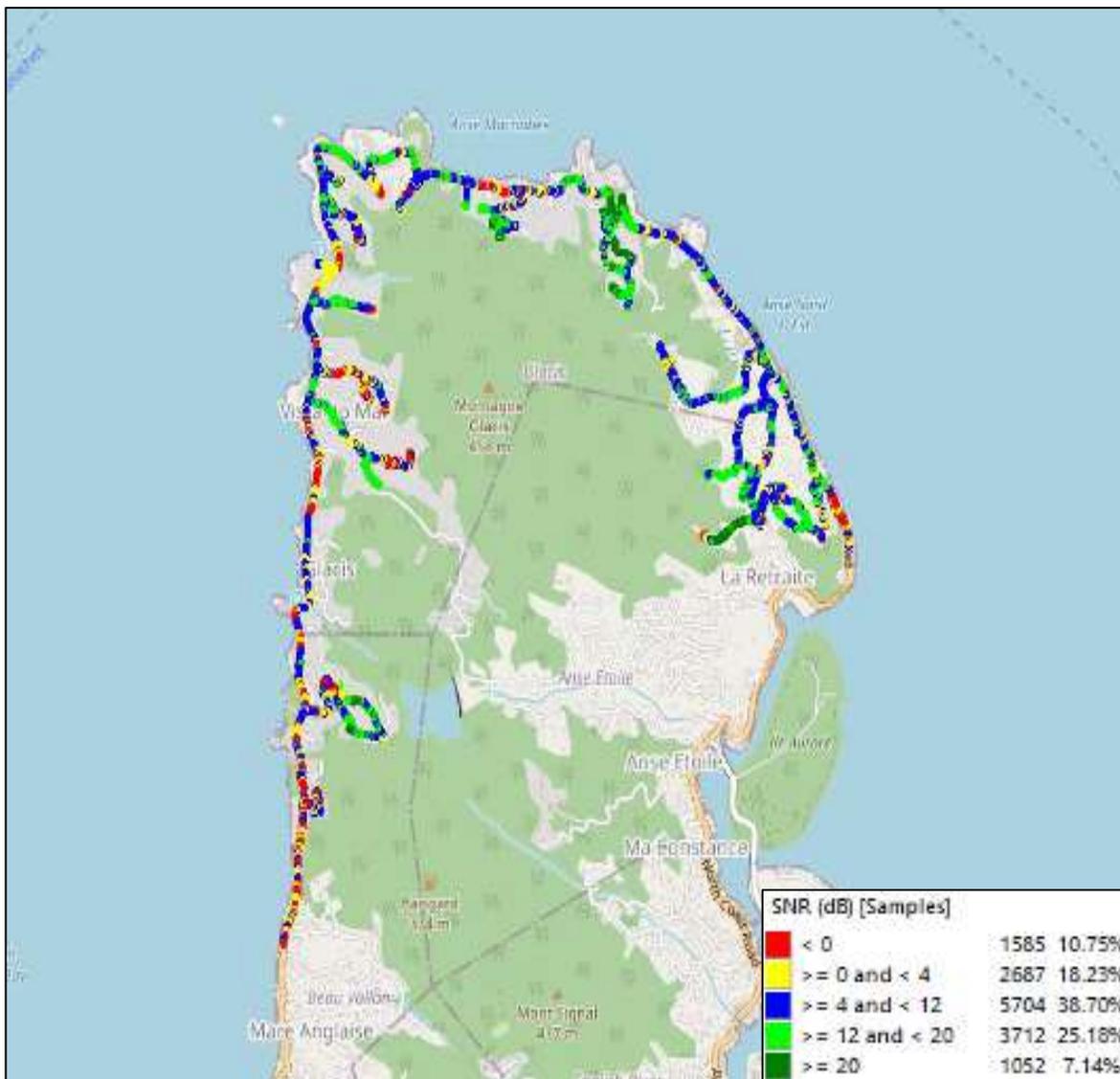
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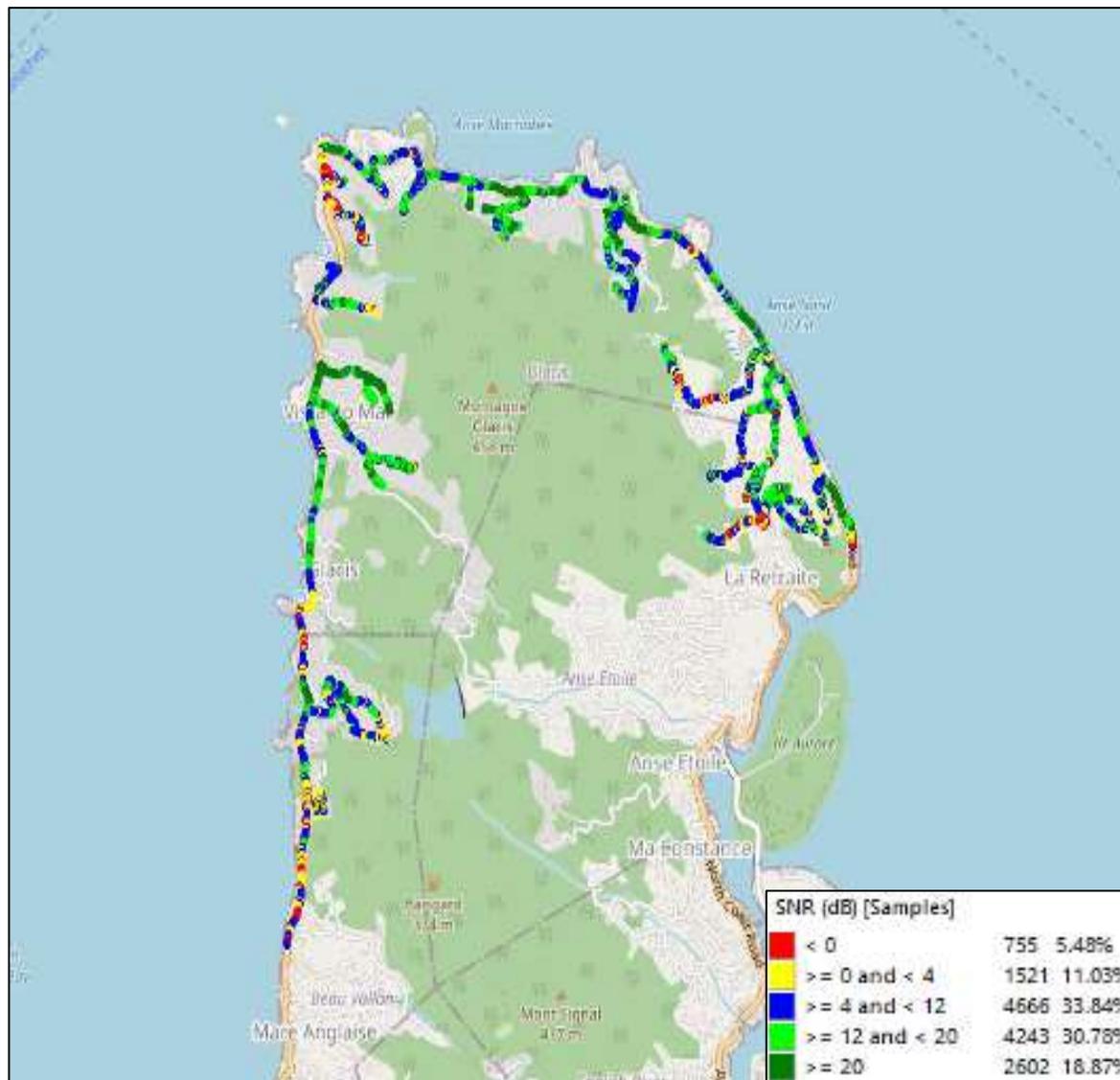
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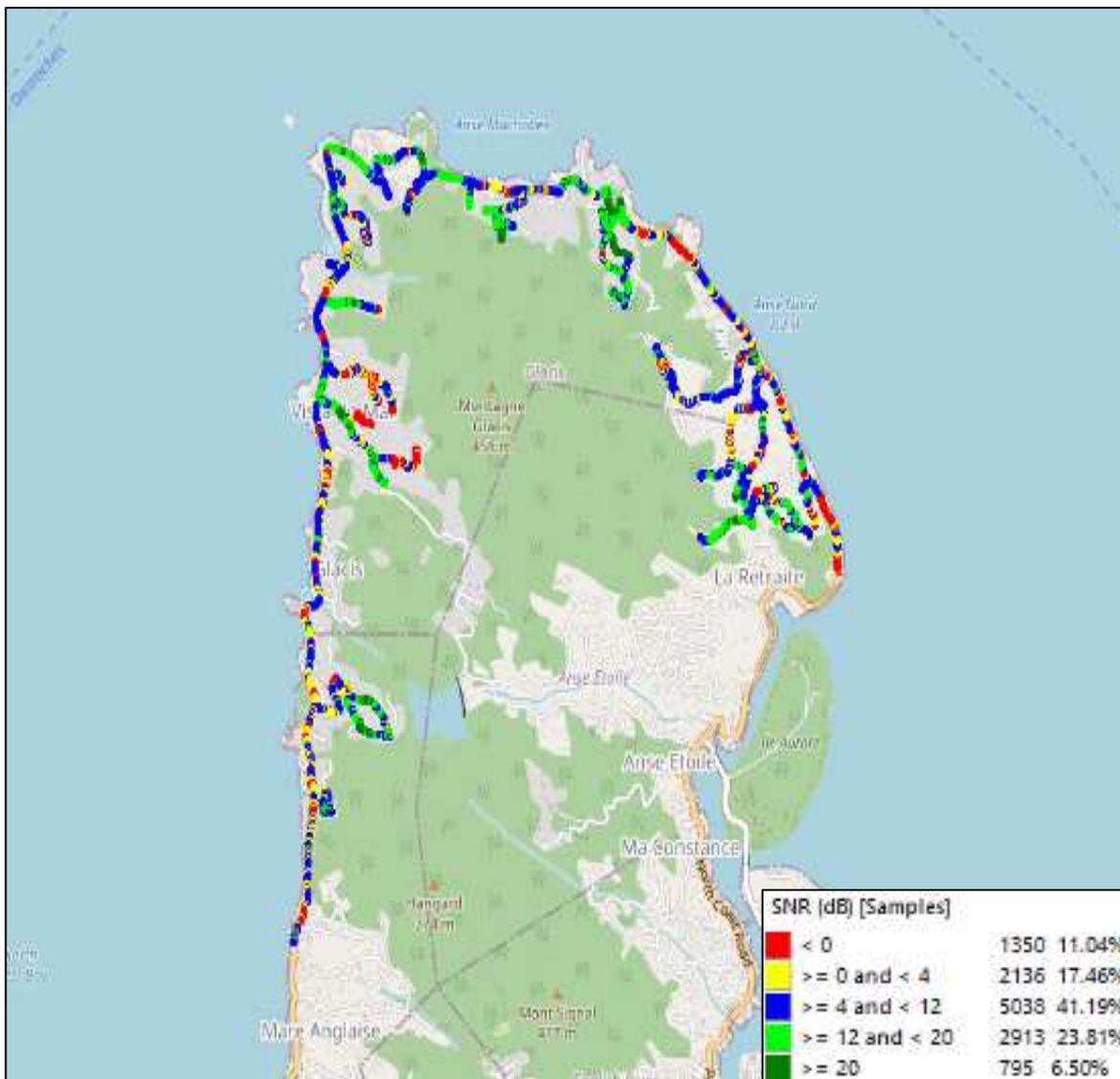
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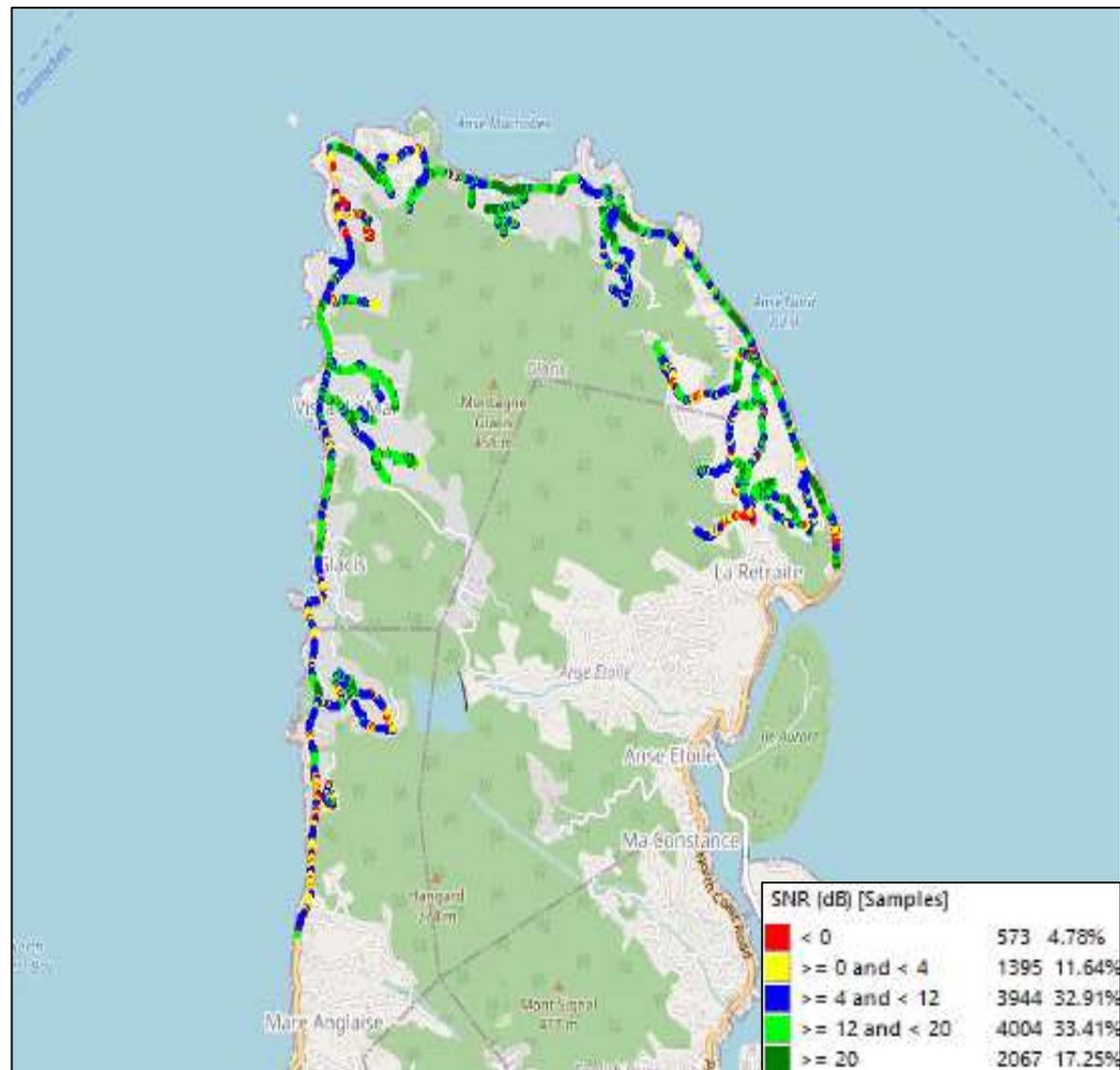
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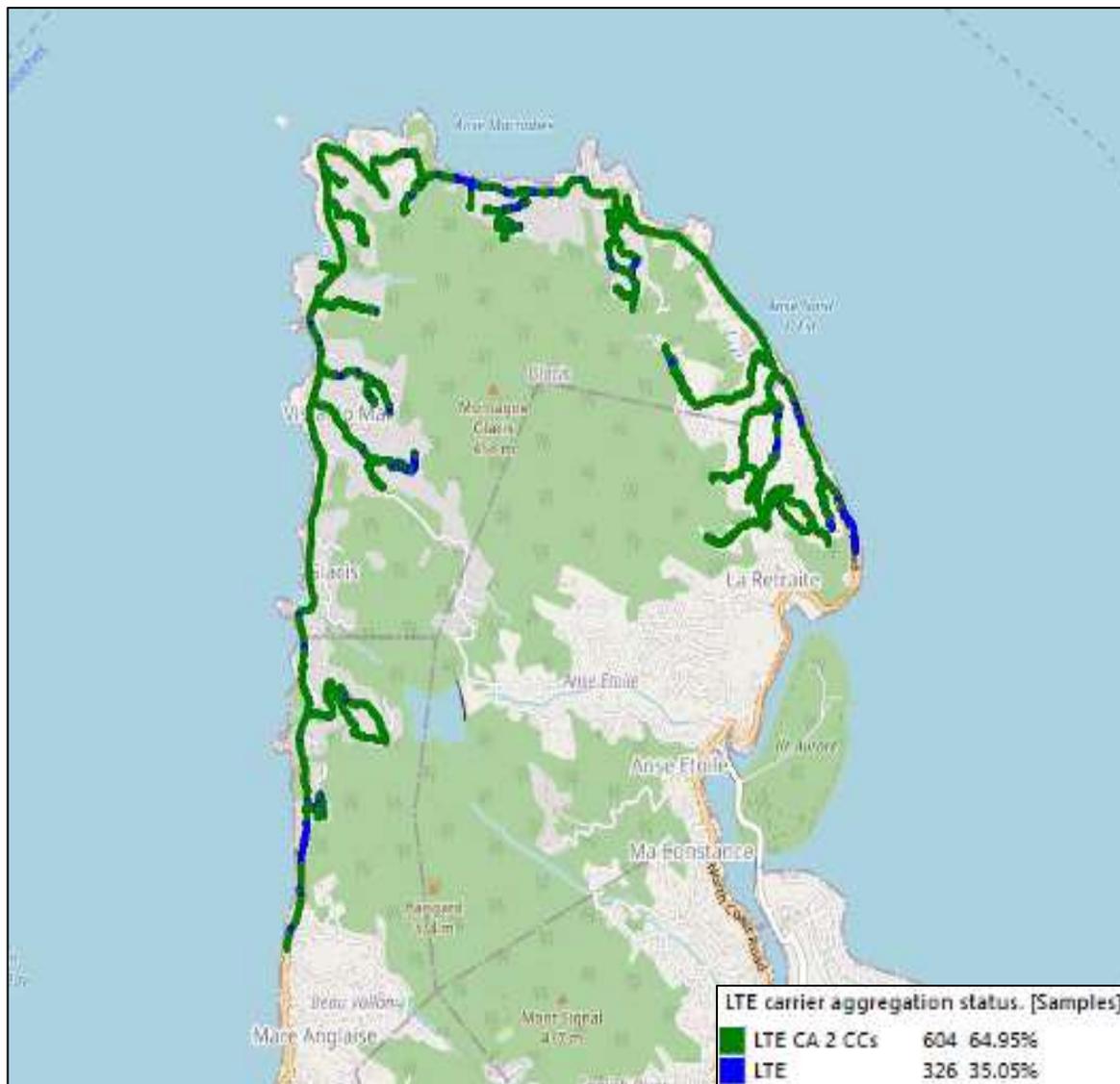
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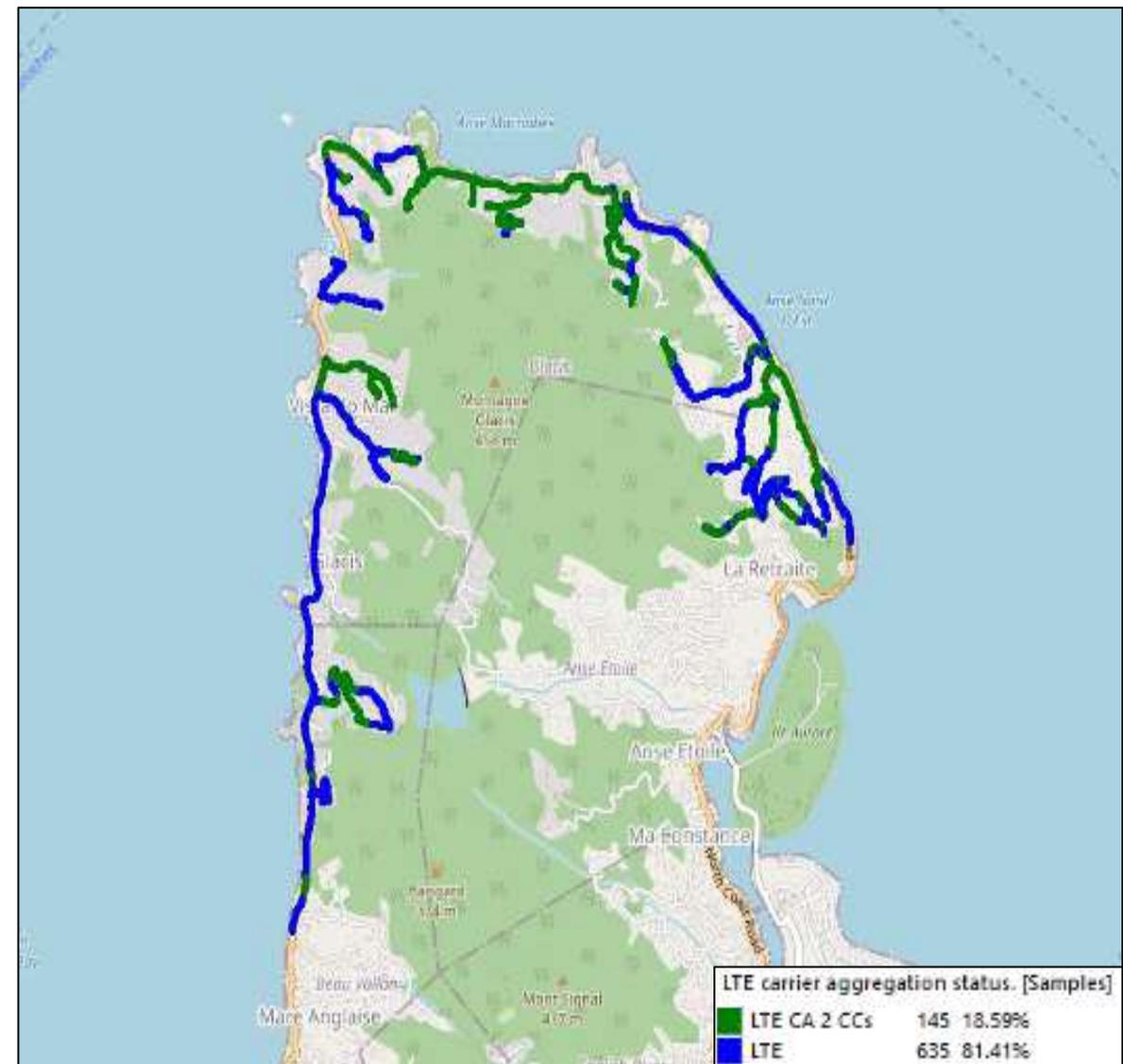
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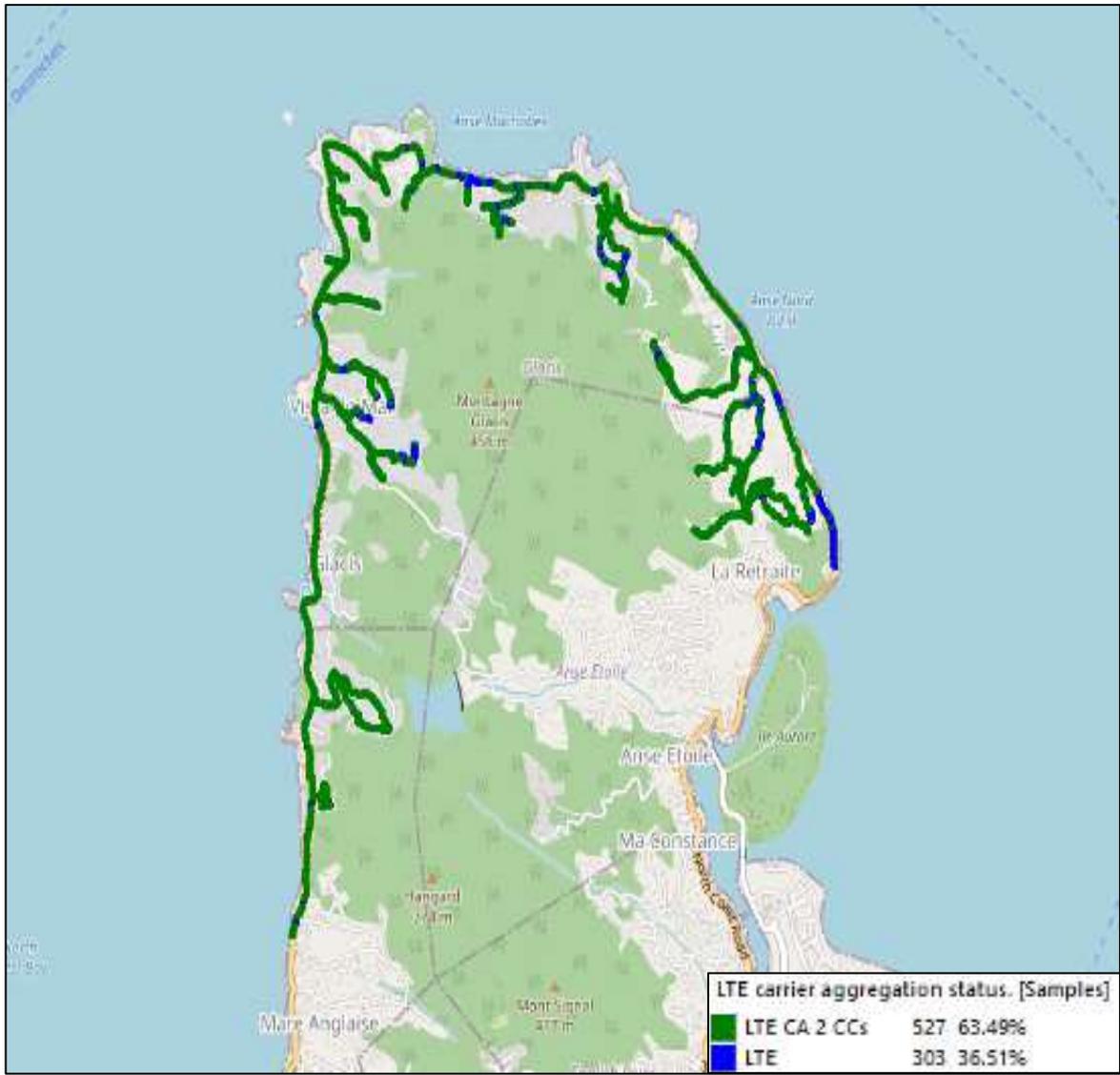
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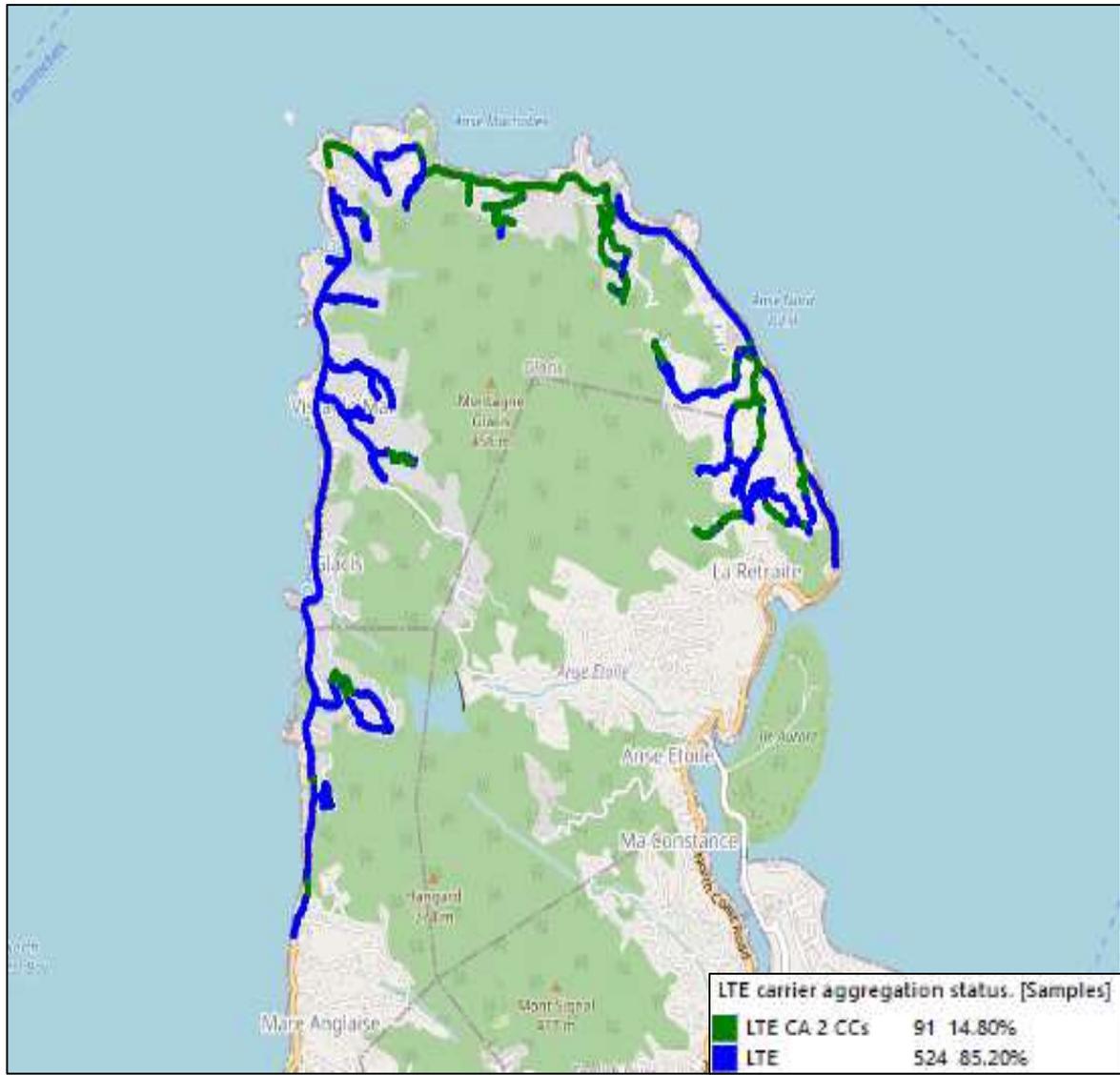
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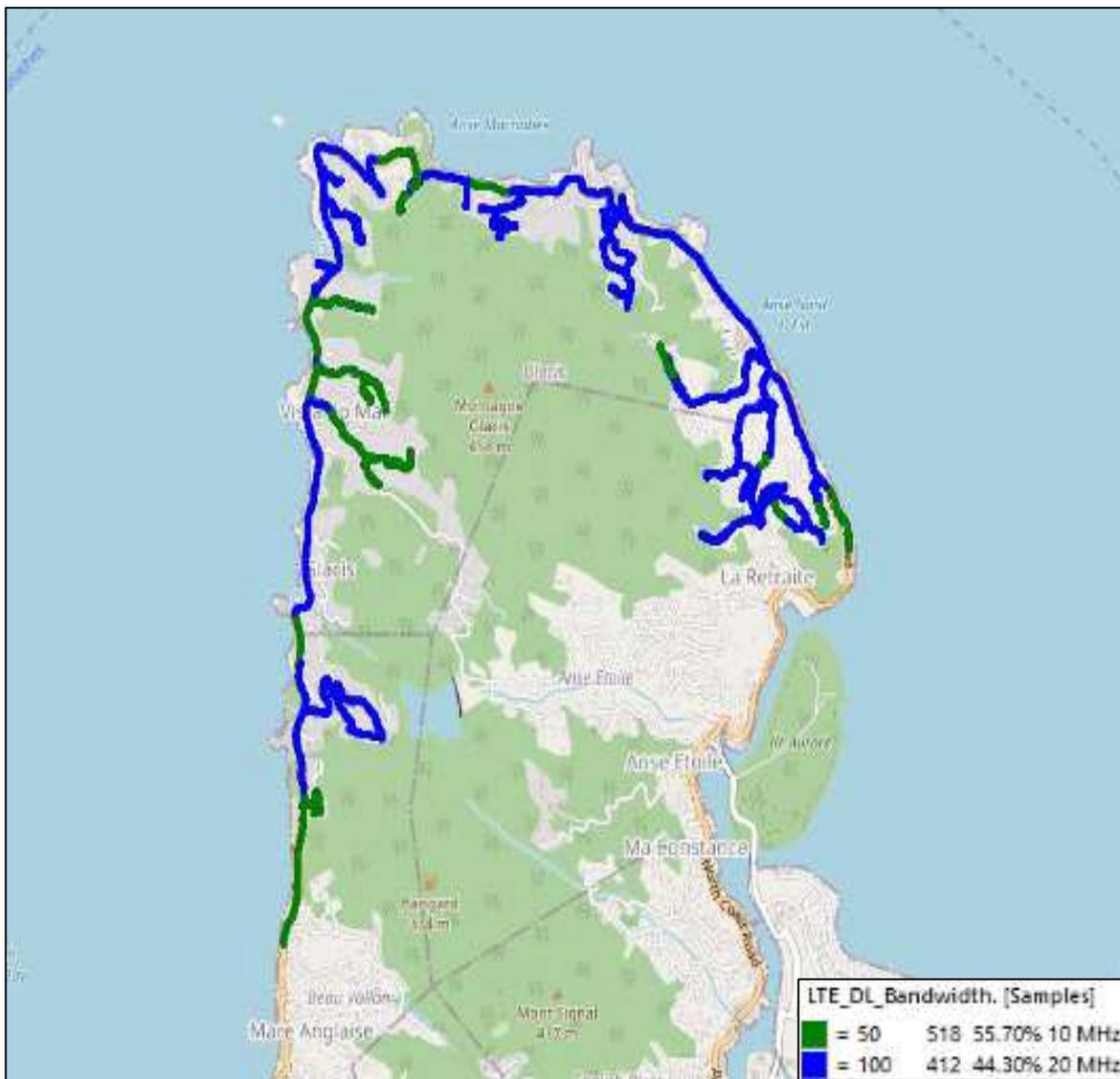
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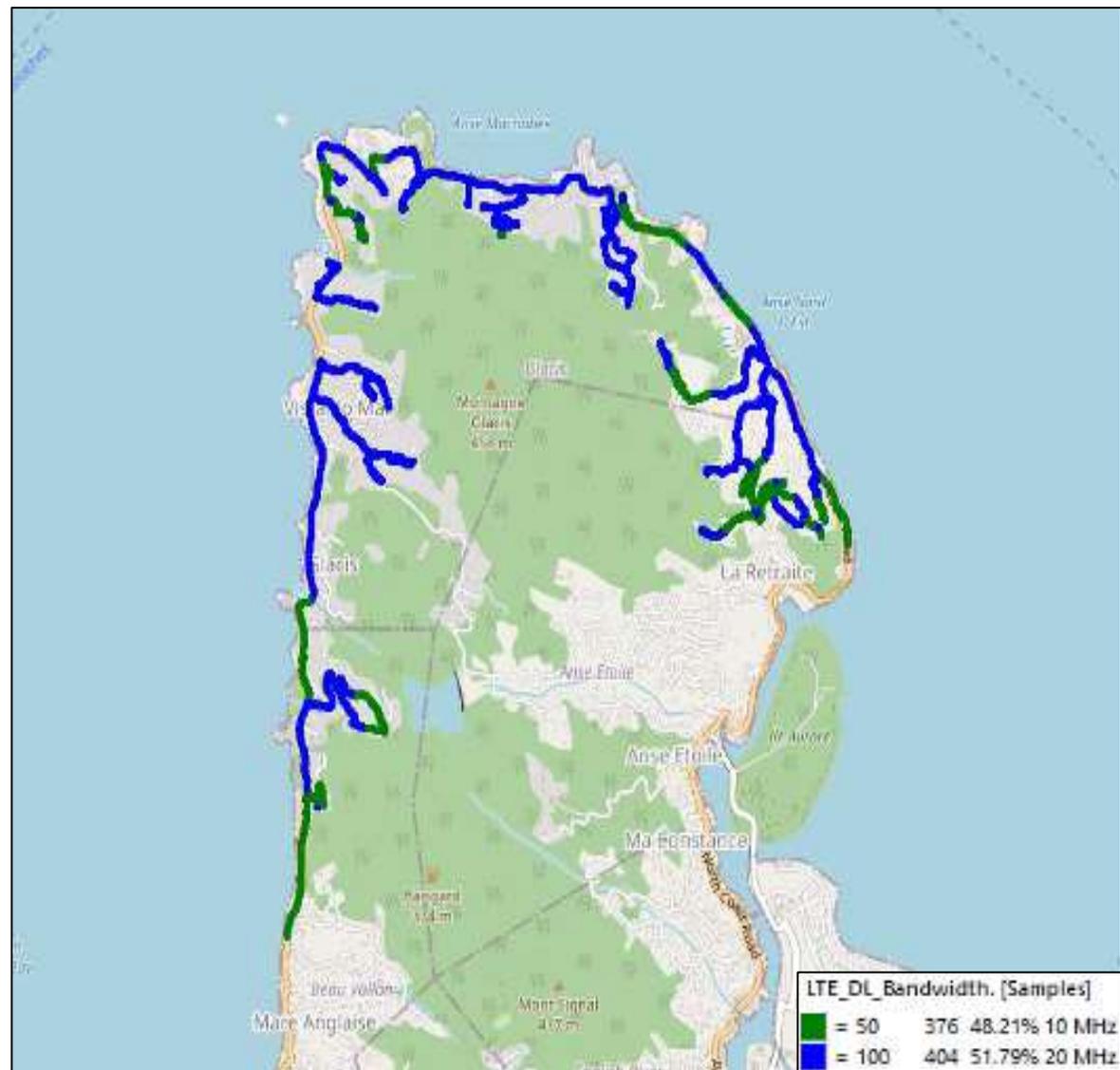
CWS Data 4G



Airtel Data 4G



CWS Data 4G



Negative Event Analysis

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

Call Attempt Failure cause from Airtel	Count
Total Call Attempt Failure	1
Poor Coverage	1

Call Attempt Failure cause from CWS	Count
Total Call Attempt Failure	3
Poor Coverage	2
Network End	1

Call Drop cause from Airtel	Count
Total Call Drop	1
Network End	1

Call Drop cause from CWS	Count
Total Call Drop	2
Poor Coverage	2

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

	Time	System	Serving band	Cal	1. best active RSCP	Time	Ch	SC	1. best		System	Transf. dir.	Time	Subchannel	Message name	
1.	14:49:30.704	UMTS FDD	900	Cal	4884, -90.1	14:48:54.348	3050	292			15683.	UMTS FDD	Downlink	14:49:28.709	BCCH	MASTER_INFORMATION_BLOCK
					4885.	14:48:54.348	3050	292	-11.8		15684.	UMTS FDD	Downlink	14:49:28.729	BCCH_BCH	SYSTEM_INFORMATION_BLOCK
					4886.	14:48:54.461	3050	292	-88.1		15685.	UMTS FDD	Downlink	14:49:28.729	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					4887.	14:48:54.461	3050	292	-10.7		15686.	UMTS FDD	Downlink	14:49:28.729	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					4888.	14:48:55.350	3050	292	-89		15687.	UMTS FDD	Downlink	14:49:28.739	CCCH	RRC_CONNECTION_SETUP
					4889.	14:48:55.350	3050	292	-11.2		15688.	UMTS FDD	Uplink	14:49:28.788	DCCH	RRC_CONNECTION_SETUP_COMPLETE
					4890.	14:48:55.940	3050	292	-90.4		15689.	UMTS FDD	Uplink	14:49:28.789	DCCH	INITIAL_DIRECT_TRANSFER
					4891.	14:48:55.940	3050	292	-12.1		15690.	UMTS FDD	Uplink	14:49:28.789	DCCH	CM_SERVICE_REQUEST
					4892.	14:48:56.348	3050	292	-89.3		15691.	UMTS FDD	Uplink	14:49:28.789	DCCH	INITIAL_DIRECT_TRANSFER
					4893.	14:48:56.348	3050	292	-11		15692.	UMTS FDD	Uplink	14:49:28.789	DCCH	ROUTING_AREA_UPDATE_REQUEST
					4894.	14:48:56.959	3050	292	-89.8		15693.	UMTS FDD	Downlink	14:49:29.022	DCCH	MEASUREMENT_CONTROL
					4895.	14:48:56.959	3050	292	-11.7		15694.	UMTS FDD	Downlink	14:49:29.062	DCCH	MEASUREMENT_CONTROL
					4896.	14:48:57.478	3050	292	-95.7		15695.	UMTS FDD	Downlink	14:49:29.072	DCCH	MEASUREMENT_CONTROL
					4897.	14:48:57.478	3050	292	-11.7		15696.	UMTS FDD	Downlink	14:49:29.082	DCCH	MEASUREMENT_CONTROL
					4898.	14:49:28.579	3050	292	-93		15697.	UMTS FDD	Downlink	14:49:29.092	DCCH	MEASUREMENT_CONTROL
					4899.	14:49:28.579	3050	292	-9.6		15698.	UMTS FDD	Downlink	14:49:29.132	DCCH	DOWNLINK_DIRECT_TRANSFER
					4900.	14:49:29.245	3050	292	-93		15699.	UMTS FDD	Downlink	14:49:29.132	DCCH	AUTHENTICATION_REQUEST
					4901.	14:49:29.245	3050	292	-13.4		15700.	UMTS FDD	Uplink	14:49:29.261	DCCH	UPLINK_DIRECT_TRANSFER
					4902.	14:49:29.518	3050	292	-93		15701.	UMTS FDD	Uplink	14:49:29.261	DCCH	AUTHENTICATION_RESPONSE
					4903.	14:49:29.518	3050	292	-11.1		15702.	UMTS FDD	Downlink	14:49:29.352	DCCH	SECURITY_MODE_COMMAND
					4904.	14:49:30.318	3050	292	-93		15703.	UMTS FDD	Uplink	14:49:29.353	DCCH	SECURITY_MODE_COMPLETE
					4905.	14:49:30.318	3050	292	-10.9		15704.	UMTS FDD	Uplink	14:49:29.443	DCCH	UPLINK_DIRECT_TRANSFER
					4906.	14:49:30.746	3050	292	-93		15705.	UMTS FDD	Uplink	14:49:29.443	DCCH	SETUP
					4907.	14:49:30.746	3050	292	-5		15706.	UMTS FDD	Downlink	14:49:29.518	DCCH	DOWNLINK_DIRECT_TRANSFER
					4908.	14:49:31.385	3050	292	-93		15707.	UMTS FDD	Downlink	14:49:29.518	DCCH	IDENTITY_REQUEST
					4909.	14:49:31.385	3050	292	-7.2		15708.	UMTS FDD	Uplink	14:49:29.518	DCCH	UPLINK_DIRECT_TRANSFER
					4910.	14:49:31.660	3050	292	-93		15709.	UMTS FDD	Uplink	14:49:29.518	DCCH	IDENTITY_RESPONSE
					4911.	14:49:31.660	3050	292	-11.4		15710.	UMTS FDD	Downlink	14:49:29.572	DCCH	DOWNLINK_DIRECT_TRANSFER
					4912.	14:49:32.075	3050	292	-93		15711.	UMTS FDD	Downlink	14:49:29.572	DCCH	CALL_PROCEEDING
					4913.	14:49:32.075	3050	292	-8.3		15712.	UMTS FDD	Uplink	14:49:30.313	DCCH	MEASUREMENT_REPORT
					4914.	14:49:32.585	3050	292	-91.1		15713.	UMTS FDD	Uplink	14:49:30.375	DCCH	MEASUREMENT_REPORT
					4915.	14:49:32.585	3050	292	-7.7		15714.	UMTS FDD	Uplink	14:49:30.375	DCCH	MEASUREMENT_REPORT
					4916.	14:49:33.388	3050	292	-97.4		15715.	UMTS FDD	Uplink	14:49:30.704	DCCH	UPLINK_DIRECT_TRANSFER
					4917.	14:49:33.388	3050	292	-11.8		15716.	UMTS FDD	Uplink	14:49:30.704	DCCH	DISCONNECT
					4918.	14:49:34.495	3050	292	-95.9		15717.	UMTS FDD	Downlink	14:49:30.802	DCCH	DOWNLINK_DIRECT_TRANSFER
					4919.	14:49:34.495	3050	292	-95.9		15718.	UMTS FDD	Downlink	14:49:30.802	DCCH	RELEASE
					4920.	14:49:34.495	3050	292	-10.6		15719.	UMTS FDD	Uplink	14:49:30.803	DCCH	UPLINK_DIRECT_TRANSFER

Analysis:

- This call failure event occurred on short call at 14:49:30:704 time when UE was latched with 3G network.
- The call setup failed after receiving the "Call Proceeding" message from the core network.
- During the failure, UE was latched with PSC 292 and RF condition RSCP -93 dBm and Ec/No -10.9 dB are very good.
- Need to check MT End.

Phase-1 Call Attempt Failure Analysis 1 From MS6 Airtel MT

	Time	Band	Band (MHz)	Ch	PCI	RSRP	SNR		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
7864.	14:49:17.516	B20	800	6400	118	-103.8			15768.	RRCSM	LTE FDD	Downlink	14:48:58.328	DCCH	RRCCConnectionReconfiguration
7865.	14:49:17.516						5.5		15769.	RRCSM	LTE FDD	Uplink	14:48:58.329	DCCH	RRCCConnectionReconfigurationComplete
7866.	14:49:18.797	B20	800	6400	118	-105.6			15770.	RRCSM	LTE FDD	Downlink	14:48:59.146	DCCH	RRCCConnectionReconfiguration
7867.	14:49:18.797						3		15771.	RRCSM	LTE FDD	Uplink	14:48:59.147	DCCH	RRCCConnectionReconfigurationComplete
7868.	14:49:20.155	B20	800	6400	118	-104.3			15772.	RRCSM	LTE FDD	Downlink	14:49:07.266	DCCH	RRCCConnectionReconfiguration
7869.	14:49:20.155						4.8		15773.	RRCSM	LTE FDD	Uplink	14:49:07.268	DCCH	RRCCConnectionReconfigurationComplete
7870.	14:49:21.548	B20	800	6400	118	-102.6			15774.	RRCSM	LTE FDD	Downlink	14:49:08.226	DCCH	RRCCConnectionRelease
7871.	14:49:21.548						7.9		15775.	RRCSM	LTE FDD	Downlink	14:49:30.312	PCCH	Paging
7872.	14:49:22.679	B20	800	6400	118	-105			15776.	L3SM	LTE FDD	Uplink	14:49:30.312		EXTENDED_SERVICE_REQUEST
7873.	14:49:22.679						2.9		15777.	RRCSM	LTE FDD	Uplink	14:49:30.313	CCCH	RRCCConnectionRequest
7874.	14:49:24.366	B20	800	6400	118	-105.6			15778.	RRCSM	LTE FDD	Downlink	14:49:30.374	CCCH	RRCCConnectionSetup
7875.	14:49:24.366						3.1		15779.	RRCSM	LTE FDD	Uplink	14:49:30.379	DCCH	RRCCConnectionSetupComplete
7876.	14:49:25.389	B20	800	6400	118	-103.9			15780.	RRCSM	LTE FDD	Downlink	14:49:30.418	DCCH	SecurityModeCommand
7877.	14:49:25.389						6.3		15781.	RRCSM	LTE FDD	Uplink	14:49:30.419	DCCH	SecurityModeComplete
7878.	14:49:26.477	B20	800	6400	118	-104.1			15782.	RRCSM	LTE FDD	Downlink	14:49:30.432	DCCH	UECapabilityEnquiry
7879.	14:49:26.477						5.1		15783.	RRCSM	LTE FDD	Uplink	14:49:30.434	DCCH	UECapabilityInformation
7880.	14:49:27.756	B20	800	6400	118	-105.8			15784.	RRCSM	UMTS FDD	Uplink	14:49:30.434		INTER_RAT_HANDOVER_INFO
7881.	14:49:27.756						2.4		15785.	RRCSM	LTE FDD	Downlink	14:49:30.460	DCCH	RRCCConnectionReconfiguration
7882.	14:49:29.115	B20	800	6400	118	-105.8			15786.	RRCSM	LTE FDD	Uplink	14:49:30.471	DCCH	RRCCConnectionReconfigurationComplete
7883.	14:49:29.115						4.3		15787.	RRCSM	LTE FDD	Downlink	14:49:30.488	DCCH	RRCCConnectionReconfiguration
7884.	14:49:30.379	B20	800	6400	118	-105.5			15788.	RRCSM	LTE FDD	Uplink	14:49:30.492	DCCH	RRCCConnectionReconfigurationComplete
7885.	14:49:30.379						3.9		15789.	RRCSM	LTE FDD	Uplink	14:49:30.661	DCCH	MeasurementReport
7886.	14:49:30.754	B20	800	6400	118	-104.4			15790.	RRCSM	LTE FDD	Downlink	14:49:30.707	DCCH	RRCCConnectionRelease
7887.	14:49:30.754						3.7		15791.	RRCSM	UMTS FDD	Downlink	14:49:31.009	BCCH_BCH	SYSTEM_INFORMATION_BCH
7888.	14:49:38.603	B20	800	6400	118	-106.1			15792.	RRCSM	UMTS FDD	Downlink	14:49:31.029	BCCH_BCH	SYSTEM_INFORMATION_BCH
7889.	14:49:38.603								15793.	RRCSM	UMTS FDD	Downlink	14:49:31.029	BCCH	MASTER_INFORMATION_BLOCK
7890.	14:49:38.603						3.3		15794.	RRCSM	UMTS FDD	Downlink	14:49:31.129	BCCH_BCH	SYSTEM_INFORMATION_BCH
7891.	14:49:38.811	B20	800	6400	118	-105.7			15795.	RRCSM	UMTS FDD	Downlink	14:49:31.129	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
7892.	14:49:38.811						4.5		15796.	RRCSM	UMTS FDD	Downlink	14:49:31.129	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
7893.	14:49:39.388	B20	800	6400	118	-104.9			15797.	RRCSM	UMTS FDD	Downlink	14:49:31.129	BCCH_BCH	MASTER_INFORMATION_BLOCK
7894.	14:49:39.388						4.7		15798.	RRCSM	UMTS FDD	Downlink	14:49:31.129	BCCH_BCH	SCHEDULING_BLOCK_1
7895.	14:49:40.556	B20	800	6400	118	-105.6			15799.	RRCSM	UMTS FDD	Downlink	14:49:31.129	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_1
7896.	14:49:40.556						4		15800.	RRCSM	UMTS FDD	Downlink	14:49:31.129	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
7897.	14:49:41.836	B20	800	6400	118	-108.5			15801.	RRCSM	UMTS FDD	Downlink	14:49:31.129	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_5
7898.	14:49:41.836						0		15802.	RRCSM	UMTS FDD	Downlink	14:49:31.129	BCCH_BCH	SYSTEM_INFORMATION_BLOCK_TYPE_18
7899.	14:49:43.112	B20	800	6400	118	-108.4			15803.	RRCSM	UMTS FDD	Downlink	14:49:31.149	BCCH_BCH	SYSTEM_INFORMATION_BCH

Analysis:

- On MT End, During the setup fail, UE was latched with PCI and RF condition RSRP -105.5 dBm poor and SINR 3.9 dB is good .
- Call failed due to poor network coverage at MT end, causing unsuccessful connection.
- Based on the analysis, the failure was attributed to poor network Coverage. This may involve issues such as weak signal strength, high interference, or congestion in the radio access network, which impacted the overall call performance.

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		System	Transf. dir.	Time	Subchannel	Message name	
1.	14:06:48.552	UMTS FDD	2100	Call	8940.						23934.	UMTS FDD	Downlink	15:33:51.569	BCCH_BCH	SYSTEM_INFORMATION_BCH
2.	15:02:27.960	UMTS FDD	2100	Dro	8941.	-96.8	15:33:46.353	10690 112			23935.	UMTS FDD	Downlink	15:33:51.589	BCCH_BCH	SYSTEM_INFORMATION_BCH
3.	15:33:52.045	UMTS FDD	2100	Call	8942.		15:33:46.353	10690 112	-8.9		23936.	UMTS FDD	Downlink	15:33:51.589	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_11
					8943.	-94.1	15:33:46.735	10690 113			23937.	UMTS FDD	Downlink	15:33:51.609	BCCH_BCH	SYSTEM_INFORMATION_BCH
					8944.		15:33:46.735	10690 113	-11.5		23938.	UMTS FDD	Downlink	15:33:51.609	BCCH	MASTER_INFORMATION_BLOCK
					8945.	-92.5	15:33:47.373	10690 112			23939.	UMTS FDD	Downlink	15:33:51.609	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					8946.		15:33:47.373	10690 112	-10.3		23940.	UMTS FDD	Downlink	15:33:51.629	BCCH_BCH	SYSTEM_INFORMATION_BCH
					8947.	-91.8	15:33:47.948	10690 113			23941.	UMTS FDD	Downlink	15:33:51.629	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_2
					8948.		15:33:47.948	10690 113	-9		23942.	UMTS FDD	Downlink	15:33:51.629	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					8949.	-92.6	15:33:48.432	10690 113			23943.	UMTS FDD	Downlink	15:33:51.649	BCCH_BCH	SYSTEM_INFORMATION_BCH
					8950.		15:33:48.432	10690 113	-9.3		23944.	UMTS FDD	Downlink	15:33:51.649	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_5
					8951.	-92.8	15:33:48.771	10690 113			23945.	UMTS FDD	Downlink	15:33:51.669	BCCH_BCH	SYSTEM_INFORMATION_BCH
					8952.		15:33:48.771	10690 113	-6.8		23946.	UMTS FDD	Uplink	15:33:51.734	CCCH	CELL_UPDATE
					8953.	-106.9	15:33:49.317	10690 112			23947.	UMTS FDD	Downlink	15:33:51.749	BCCH_BCH	SYSTEM_INFORMATION_BCH
					8954.		15:33:49.317	10690 112	-12.8		23948.	UMTS FDD	Downlink	15:33:51.749	BCCH	SCHEDULING_BLOCK_1
					8955.	-96.8	15:33:49.812	10690 112			23949.	UMTS FDD	Downlink	15:33:51.872	DCCH	CELL_UPDATE_CONFIRM
					8956.		15:33:49.812	10690 112	-13.1		23950.	UMTS FDD	Uplink	15:33:51.921	DCCH	PHYSICAL_CHANNEL_RECONFIGURATION_COMPLETE
					8957.	-95.4	15:33:50.389	10690 112			23951.	UMTS FDD	Downlink	15:33:51.929	BCCH_BCH	SYSTEM_INFORMATION_BCH
					8958.		15:33:50.389	10690 112	-11.7		23952.	UMTS FDD	Downlink	15:33:51.929	BCCH	MASTER_INFORMATION_BLOCK
					8959.	-87.8	15:33:50.821	10690 112			23953.	UMTS FDD	Downlink	15:33:51.929	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					8960.		15:33:50.821	10690 112	-10.1		23954.	UMTS FDD	Downlink	15:33:52.022	DCCH	MEASUREMENT_CONTROL
					8961.	-89.1	15:33:51.391	10690 112			23955.	UMTS FDD	Downlink	15:33:52.023	DCCH	DOWNLINK_DIRECT_TRANSFER
					8962.		15:33:51.391	10690 112	-10.3		23956.	UMTS FDD	Downlink	15:33:52.023	DCCH	DISCONNECT
					8963.	-87	15:33:51.921	10715 112			23957.	UMTS FDD	Uplink	15:33:52.045	DCCH	UPLINK_DIRECT_TRANSFER
					8964.		15:33:51.921	10715 112	-3.6		23958.	UMTS FDD	Uplink	15:33:52.045	DCCH	RELEASE
					8965.	-91.9	15:33:52.362	10715 112			23959.	UMTS FDD	Downlink	15:33:52.242	DCCH	DOWNLINK_DIRECT_TRANSFER
					8966.		15:33:52.362	10715 112	-4.5		23960.	UMTS FDD	Downlink	15:33:52.242	DCCH	RELEASE_COMPLETE
					8967.	-85.7	15:33:53.389	10715 112			23961.	UMTS FDD	Downlink	15:33:52.249	BCCH_BCH	SYSTEM_INFORMATION_BCH
					8968.		15:33:53.389	10715 112	-3.7		23962.	UMTS FDD	Downlink	15:33:52.249	BCCH	MASTER_INFORMATION_BLOCK
					8969.	-85.3	15:33:53.862	10715 112			23963.	UMTS FDD	Downlink	15:33:52.249	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					8970.		15:33:53.862	10715 112	-2.8		23964.	UMTS FDD	Downlink	15:33:52.342	DCCH	SIGNALLING_CONNECTION_RELEASE
					8971.	-87.6	15:33:54.377	10715 112			23965.	UMTS FDD	Downlink	15:33:52.569	BCCH_BCH	SYSTEM_INFORMATION_BCH
					8972.		15:33:54.377	10715 112	-3.6		23966.	UMTS FDD	Downlink	15:33:52.569	BCCH	MASTER_INFORMATION_BLOCK
					8973.	-80.7	15:33:55.000	10715 112			23967.	UMTS FDD	Downlink	15:33:52.569	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					8974.		15:33:55.000	10715 112	-3		23968.	UMTS FDD	Downlink	15:33:52.749	BCCH_BCH	SYSTEM_INFORMATION_BCH
					8975.	-82	15:33:55.392	10715 112			23969.	UMTS FDD	Downlink	15:33:52.749	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_2
					8976.		15:33:55.392	10715 112	-3		23970.	UMTS FDD	Downlink	15:33:52.749	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3

- Analysis:**
- This call failure event occurred on short call at 15:33:52:045 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 112 and RF condition RSCP -87 dBm and Ec/No -3.6 dB are very good.
 - As per the analysis Call failed due to unavailability of the requested circuit/channel, preventing call completion.
 - Need to check to network end.

Downlink

DISCONNECT 3GPP TS 24.008 ver 15.4.0 Rel 15 (9.5.7.1)

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

M Transaction Identifier (hex data: 8)
T1 flag: 1 (the message is sent to the side that originates the T1)
T1 value: 0

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

M Cause (hex data: 02e0c)
Coding standard: Standard defined for the GSM PLMNs
Location: user
Cause (4): requested circuit/channel not available

Layer 3 data:
81 25 02 e0 c

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

Call Attempt Failure cause from Airtel	Count
Total Call Attempt Failure	1
Network End	1

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

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

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

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

	Time	System	Serving band	Call	1. best active RSCP	Time	Ch	SC	1. best active Ec/NO	Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	13:46:30.407	UMTS FDD	900	Dro	4739.		3050	360	-4.6	14838.	RRCSM	Downlink	13:46:22.446	DCCH	DOWNLINK_DIRECT_TRANSFER
					4740.	-75.4	3050	360		14839.	L3SM	Downlink	13:46:22.446	DCCH	IDENTITY_REQUEST
					4741.		3050	360	-7.6	14840.	RRCSM	Uplink	13:46:22.446	DCCH	UPLINK_DIRECT_TRANSFER
					4742.	-64.5	3050	360		14841.	L3SM	Uplink	13:46:22.446	DCCH	IDENTITY_RESPONSE
					4743.		3050	360	-5.9	14842.	RRCSM	Downlink	13:46:22.466	DCCH	ACTIVE_SET_UPDATE
					4744.	-64.3	3050	360		14843.	RRCSM	Uplink	13:46:22.477	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					4745.		3050	360	-5.4	14844.	RRCSM	Downlink	13:46:22.596	DCCH	MEASUREMENT_CONTROL
					4746.	-78.1	3050	360		14845.	RRCSM	Downlink	13:46:22.616	DCCH	DOWNLINK_DIRECT_TRANSFER
					4747.		3050	360	-8.3	14846.	L3SM	Downlink	13:46:22.616	DCCH	CALL_PROCEEDING
					4748.	-70.4	3050	370		14847.	RRCSM	Uplink	13:46:23.169	DCCH	MEASUREMENT_REPORT
					4749.		3050	370	-9	14848.	RRCSM	Uplink	13:46:23.169	DCCH	MEASUREMENT_REPORT
					4750.	-77	3050	352		14849.	RRCSM	Downlink	13:46:23.266	DCCH	ACTIVE_SET_UPDATE
					4751.		3050	352	-14	14850.	RRCSM	Uplink	13:46:23.297	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					4752.	-77	3050	352		14851.	RRCSM	Uplink	13:46:23.327	DCCH	MEASUREMENT_REPORT
					4753.		3050	352	-8.7	14852.	RRCSM	Downlink	13:46:23.359	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4754.	-77	3050	352		14853.	RRCSM	Downlink	13:46:23.359	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_12
					4755.		3050	352	-10.8	14854.	RRCSM	Uplink	13:46:23.368	DCCH	MEASUREMENT_REPORT
					4756.	-77	3050	352		14855.	RRCSM	Downlink	13:46:23.378	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4757.		3050	352	-18.8	14856.	RRCSM	Downlink	13:46:23.378	BCCH	MASTER_INFORMATION_BLOCK
					4758.	-73	3050	370		14857.	RRCSM	Downlink	13:46:23.398	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4759.		3050	370	-6.9	14858.	RRCSM	Downlink	13:46:23.398	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3
					4760.	-73	3050	370		14859.	RRCSM	Downlink	13:46:23.398	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					4761.		3050	370	-7.3	14860.	RRCSM	Uplink	13:46:23.403	DCCH	MEASUREMENT_REPORT
					4762.	-73	3050	370		14861.	RRCSM	Downlink	13:46:23.418	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4763.		3050	370	-7.5	14862.	RRCSM	Downlink	13:46:23.439	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4764.	-68.4	3050	370		14863.	RRCSM	Downlink	13:46:23.459	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4765.		3050	370	-10.6	14864.	RRCSM	Downlink	13:46:23.459	BCCH	MASTER_INFORMATION_BLOCK
					4766.	-67.5	3050	370		14865.	RRCSM	Downlink	13:46:23.476	DCCH	ACTIVE_SET_UPDATE
					4767.		3050	370	-5.6	14866.	RRCSM	Downlink	13:46:23.478	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4768.	-70.1	3050	370		14867.	RRCSM	Uplink	13:46:23.487	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					4769.		3050	370	-6.9	14868.	RRCSM	Downlink	13:46:23.498	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4770.	-64.6	3050	370		14869.	RRCSM	Downlink	13:46:23.518	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4771.		3050	370	-5.8	14870.	RRCSM	Downlink	13:46:23.538	BCCH_BCH	SYSTEM_INFORMATION_BCH
					4772.	-62	3050	370		14871.	RRCSM	Downlink	13:46:23.538	BCCH	MASTER_INFORMATION_BLOCK
					4773.		3050	370	-4.6	14872.	RRCSM	Downlink	13:46:23.558	BCCH_BCH	SYSTEM_INFORMATION_BCH

Analysis:

- This call failure event occurred on short call at 13:46:30:407 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 352 and RF condition RSCP -77 dBm good but Ec/No -10.8 dB are very good.
- Need to check MT.

Phase-2 Call Attempt Failure Analysis 1 From MS5 Airtel MT

	Time	Band (MHz)	Ch	PCI	RSRP	SNR	Event ID	System	Transf. dir.	Time	Subchannel	Message name	
7529.	13:46:16.475	1800	1300	125	-73.9		14753.	RRCSM	LTE FDD	Uplink	13:46:23.277	DCCH	RRConnectionReconfigurationComplete
7530.	13:46:16.475					11.5	14754.	RRCSM	LTE FDD	Downlink	13:46:23.290	DCCH	RRConnectionReconfiguration
7531.	13:46:17.108	1800	1300	125	-83.9		14755.	RRCSM	LTE FDD	Uplink	13:46:23.294	DCCH	RRConnectionReconfigurationComplete
7532.	13:46:17.108					10.3	14756.	L3SM	LTE FDD	Uplink	13:46:23.363		DETACH_REQUEST
7533.	13:46:17.551	1800	1300	125	-82.3		14757.	RRCSM	LTE FDD	Uplink	13:46:23.364	DCCH	ULInformationTransfer
7534.	13:46:17.551					10.4	14758.	RRCSM	LTE FDD	Downlink	13:46:30.069	BCCH-BCH	MasterInformationBlock
7535.	13:46:18.100	1800	1300	125	-86.6		14759.	RRCSM	LTE FDD	Downlink	13:46:30.103	BCCH-SCH	SystemInformationBlockType1
7536.	13:46:18.100					7.8	14760.	RRCSM	LTE FDD	Downlink	13:46:30.138	BCCH-SCH	SystemInformation - SIB2,SIB3
7537.	13:46:18.654	1800	1300	125	-87.3		14761.	L3SM	LTE FDD	Uplink	13:46:30.160		ATTACH_REQUEST
7538.	13:46:18.654					8.2	14762.	L3SM	LTE FDD	Uplink	13:46:30.160		PDN_CONNECTIVITY_REQUEST
7539.	13:46:19.158	1800	1300	125	-85.1		14763.	RRCSM	LTE FDD	Uplink	13:46:30.160	CCCH	RRConnectionRequest
7540.	13:46:19.158					10.2	14764.	RRCSM	LTE FDD	Downlink	13:46:30.214	CCCH	RRConnectionSetup
7541.	13:46:19.585	1800	1300	125	-84.8		14765.	RRCSM	LTE FDD	Uplink	13:46:30.217	DCCH	RRConnectionSetupComplete
7542.	13:46:19.585					6.5	14766.	RRCSM	LTE FDD	Downlink	13:46:30.257	DCCH	DLInformationTransfer
7543.	13:46:20.240	1800	1300	125	-85.6		14767.	L3SM	LTE FDD	Downlink	13:46:30.257		ESM_INFORMATION_REQUEST
7544.	13:46:20.240					5	14768.	L3SM	LTE FDD	Uplink	13:46:30.258		ESM_INFORMATION_RESPONSE
7545.	13:46:20.705	1800	1300	125	-84.4		14769.	RRCSM	LTE FDD	Uplink	13:46:30.258	DCCH	ULInformationTransfer
7546.	13:46:20.705					4.5	14770.	RRCSM	LTE FDD	Downlink	13:46:30.377	DCCH	SecurityModeCommand
7547.	13:46:21.274	1800	1300	125	-86.3		14771.	RRCSM	LTE FDD	Uplink	13:46:30.378	DCCH	SecurityModeComplete
7548.	13:46:21.274					4.1	14772.	RRCSM	LTE FDD	Downlink	13:46:30.393	DCCH	UECapabilityEnquiry
7549.	13:46:21.450	1800	1300	125	-86		14773.	RRCSM	LTE FDD	Uplink	13:46:30.395	DCCH	UECapabilityInformation
7550.	13:46:22.117	1800	1300	125	-81.5		14774.	RRCSM	UMTS FDD	Uplink	13:46:30.395		INTER_RAT_HANDOVER_INFO
7551.	13:46:22.117					5.3	14775.	RRCSM	LTE FDD	Downlink	13:46:30.420	DCCH	RRConnectionReconfiguration
7552.	13:46:23.478	1800	1300	125	-83.2		14776.	RRCSM	LTE FDD	Uplink	13:46:30.432	DCCH	RRConnectionReconfigurationComplete
7553.	13:46:23.478					3.4	14777.	L3SM	LTE FDD	Downlink	13:46:30.432		ACTIVATE_DEFAULT_EPS_BEARER_CONTEXT_REQUEST
7554.	13:46:26.174						14778.	L3SM	LTE FDD	Downlink	13:46:30.432		ATTACH_ACCEPT
7555.	13:46:30.230	800	6400	125	-80.1		14779.	L3SM	LTE FDD	Uplink	13:46:30.436		ATTACH_COMPLETE
7556.	13:46:30.230					4	14780.	L3SM	LTE FDD	Uplink	13:46:30.436		ACTIVATE_DEFAULT_EPS_BEARER_CONTEXT_ACCEPT
7557.	13:46:30.731	800	6400	125	-81.2		14781.	RRCSM	LTE FDD	Uplink	13:46:30.437	DCCH	ULInformationTransfer
7558.	13:46:30.731					1.4	14782.	RRCSM	LTE FDD	Downlink	13:46:30.468	DCCH	DLInformationTransfer
7559.	13:46:31.219	800	6400	125	-83.3		14783.	L3SM	LTE FDD	Downlink	13:46:30.468		EMM_INFORMATION
7560.	13:46:31.219					0.7	14784.	RRCSM	LTE FDD	Uplink	13:46:30.579	DCCH	MeasurementReport
7561.	13:46:31.770	800	6400	125	-85.2		14785.	RRCSM	LTE FDD	Uplink	13:46:30.590	DCCH	MeasurementReport
7562.	13:46:31.770					-3	14786.	RRCSM	LTE FDD	Downlink	13:46:30.595	DCCH	RRConnectionReconfiguration
7563.	13:46:32.298	800	6400	125	-78.3		14787.	RRCSM	LTE FDD	Uplink	13:46:30.596	DCCH	RRConnectionReconfigurationComplete
7564.	13:46:32.298					0.5	14788.	RRCSM	LTE FDD	Downlink	13:46:30.616	DCCH	RRConnectionReconfiguration
7565.	13:46:32.798	800	6400	125	-76.6		14789.	RRCSM	LTE FDD	Uplink	13:46:30.633	DCCH	RRConnectionReconfigurationComplete

Analysis:

- On MT End, During the setup fail, UE was latched with PCI 125 and RF condition RSRP -80.1 dBm is good and SINR 4 dB which is good.
- As per the analysis call failure happened from network end.

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

	Time	System	Serving band	Cal	1. best active RSCP	Time	Ch	SC	1. best ▲		System	Transf. dir.	Time	Subchannel	Message name	
1.	12:55:16.445	UMTS FDD	2100	Not	702.						2548.	UMTS FDD	Uplink	12:55:03.925	DCCH	SETUP
2.	13:11:24.633	UMTS FDD	2100	Dro	703.	-98.1	12:54:27.106	10690	7		2549.	UMTS FDD	Downlink	12:55:03.955	DCCH	DOWNLINK_DIRECT_TRANSFER
3.	14:16:08.948	UMTS FDD	2100	Dro	704.		12:54:27.106	10690	7	-14.8	2550.	UMTS FDD	Downlink	12:55:03.955	DCCH	TMSI_REALLOCATION_COMMAND
					705.	-94.1	12:54:27.421	10690	7		2551.	UMTS FDD	Uplink	12:55:03.956	DCCH	UPLINK_DIRECT_TRANSFER
					706.		12:54:27.421	10690	7	-9.6	2552.	UMTS FDD	Uplink	12:55:03.956	DCCH	TMSI_REALLOCATION_COMPLETE
					707.	-91.3	12:54:28.101	10690	219		2553.	UMTS FDD	Downlink	12:55:04.075	DCCH	DOWNLINK_DIRECT_TRANSFER
					708.		12:54:28.101	10690	219	-9.3	2554.	UMTS FDD	Downlink	12:55:04.075	DCCH	CALL_PROCEEDING
					709.	-88.4	12:54:28.395	10690	7		2555.	UMTS FDD	Uplink	12:55:04.579	DCCH	MEASUREMENT_REPORT
					710.		12:54:28.395	10690	7	-7.2	2556.	UMTS FDD	Uplink	12:55:04.959	DCCH	MEASUREMENT_REPORT
					711.	-89.2	12:54:29.109	10690	219		2557.	UMTS FDD	Uplink	12:55:04.999	DCCH	MEASUREMENT_REPORT
					712.		12:54:29.109	10690	219	-8.1	2558.	UMTS FDD	Uplink	12:55:05.079	DCCH	MEASUREMENT_REPORT
					713.	-92.1	12:54:29.455	10690	219		2559.	UMTS FDD	Downlink	12:55:05.095	DCCH	ACTIVE_SET_UPDATE
					714.		12:54:29.455	10690	219	-12.4	2560.	UMTS FDD	Uplink	12:55:05.106	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					715.	-80.7	12:54:30.165	10690	219		2561.	UMTS FDD	Downlink	12:55:05.215	DCCH	MEASUREMENT_CONTROL
					716.		12:54:30.165	10690	219	-6.7	2562.	UMTS FDD	Downlink	12:55:05.255	DCCH	ACTIVE_SET_UPDATE
					717.	-86.9	12:54:30.567	10690	219		2563.	UMTS FDD	Uplink	12:55:05.266	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					718.		12:54:30.567	10690	219	-10.1	2564.	UMTS FDD	Downlink	12:55:05.525	DCCH	RADIO_BEARER_SETUP
					719.	-93.6	12:54:31.164	10690	219		2565.	UMTS FDD	Uplink	12:55:05.758	DCCH	RADIO_BEARER_SETUP_COMPLETE
					720.		12:54:31.164	10690	219	-12.2	2566.	UMTS FDD	Downlink	12:55:06.204	DCCH	MEASUREMENT_CONTROL
					721.	-98.1	12:54:31.578	10690	219		2567.	UMTS FDD	Downlink	12:55:06.244	DCCH	MEASUREMENT_CONTROL
					722.		12:54:31.578	10690	219	-16.2	2568.	UMTS FDD	Downlink	12:55:06.284	DCCH	MEASUREMENT_CONTROL
					723.	-94.6	12:54:32.165	10690	219		2569.	UMTS FDD	Downlink	12:55:06.324	DCCH	MEASUREMENT_CONTROL
					724.		12:54:32.165	10690	219	-12.7	2570.	UMTS FDD	Downlink	12:55:06.484	DCCH	DOWNLINK_DIRECT_TRANSFER
					725.	-98.7	12:55:03.335	10690	7		2571.	UMTS FDD	Downlink	12:55:06.484	DCCH	AUTHENTICATION_AND_CIPHERING_REQUEST
					726.		12:55:03.335	10690	7	-8.2	2572.	UMTS FDD	Uplink	12:55:06.499	DCCH	MEASUREMENT_REPORT
					727.	-101.6	12:55:04.138	10690	7		2573.	UMTS FDD	Uplink	12:55:06.523	DCCH	UPLINK_DIRECT_TRANSFER
					728.		12:55:04.138	10690	7	-9.9	2574.	UMTS FDD	Uplink	12:55:06.523	DCCH	AUTHENTICATION_AND_CIPHERING_RESPONSE
					729.	-101.2	12:55:04.486	10690	7		2575.	UMTS FDD	Downlink	12:55:07.204	DCCH	SECURITY_MODE_COMMAND
					730.		12:55:04.486	10690	7	-11.8	2576.	UMTS FDD	Uplink	12:55:07.205	DCCH	SECURITY_MODE_COMPLETE
					731.	-93.2	12:55:05.151	10690	203		2577.	UMTS FDD	Uplink	12:55:07.529	DCCH	MEASUREMENT_REPORT
					732.		12:55:05.151	10690	203	-6.8	2578.	UMTS FDD	Uplink	12:55:07.576	DCCH	MEASUREMENT_REPORT
					733.	-95.8	12:55:05.552	10690	203		2579.	UMTS FDD	Downlink	12:55:07.884	DCCH	ACTIVE_SET_UPDATE
					734.		12:55:05.552	10690	203	-8.2	2580.	UMTS FDD	Uplink	12:55:07.917	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					735.	-97.3	12:55:06.244	10690	7		2581.	UMTS FDD	Downlink	12:55:07.924	DCCH	DOWNLINK_DIRECT_TRANSFER
					736.		12:55:06.244	10690	7	-7.9	2582.	UMTS FDD	Downlink	12:55:07.924	DCCH	ROUTING_AREA_UPDATE_ACCEPT
					737.	-96.2	12:55:06.554	10690	7		2583.	UMTS FDD	Uplink	12:55:07.926	DCCH	UPLINK_DIRECT_TRANSFER

Analysis:

- This call failure event occurred on short call at 12:55:16:445 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 7 and RF condition RSCP -98.7 dBm good but Ec/No -8.2 dB are very good.
- Need to check MT.

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

	Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sub		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
141.	12:55:06.337	-87	5	38	1	0			2336.	L3SM	GSM	Uplink	12:55:05.972	DCCH	PAGING_RESPONSE
142.	12:55:06.710	-87	5	38	1	0			2337.	L3SM	GSM	Downlink	12:55:06.411	SACCH	SYSTEM_INFORMATION_TYPE_5
143.	12:55:07.454	-92	5	38	1	0			2338.	L3SM	GSM	Uplink	12:55:06.573	DCCH	CLASSMARK_CHANGE
144.	12:55:07.454						4		2339.	L3SM	GSM	Uplink	12:55:06.573	DCCH	UTRAN_CLASSMARK_CHANGE
145.	12:55:07.925						7		2340.	L3SM	GSM	Uplink	12:55:06.573	DCCH	GPRS_SUSPENSION_REQUEST
146.	12:55:08.161	-91	5	38	1	0			2341.	L3SM	GSM	Downlink	12:55:06.808	DCCH	IDENTITY_REQUEST
147.	12:55:08.396						5		2342.	L3SM	GSM	Uplink	12:55:06.808	DCCH	IDENTITY_RESPONSE
148.	12:55:08.456	-90	5	38	1	0			2343.	L3SM	GSM	Downlink	12:55:06.882	SACCH	SYSTEM_INFORMATION_TYPE_5TER
149.	12:55:08.867						5		2344.	L3SM	GSM	Uplink	12:55:06.984	SACCH	MEASUREMENT_REPORT
150.	12:55:08.926	-91	5	38	1	0			2345.	L3SM	GSM	Downlink	12:55:07.043	DCCH	CLASSMARK_ENQUIRY
151.	12:55:09.337						6		2346.	L3SM	GSM	Uplink	12:55:07.043	DCCH	CLASSMARK_CHANGE
152.	12:55:09.397	-92	5	38	1	0			2347.	L3SM	GSM	Uplink	12:55:07.044	DCCH	UTRAN_CLASSMARK_CHANGE
153.	12:55:09.808						6		2348.	L3SM	GSM	Downlink	12:55:07.353	SACCH	SYSTEM_INFORMATION_TYPE_6
154.	12:55:10.163	-90	5	38	1	0			2349.	L3SM	GSM	Uplink	12:55:07.454	SACCH	MEASUREMENT_REPORT
155.	12:55:10.279						6		2350.	L3SM	GSM	Downlink	12:55:07.749	DCCH	CIPHERING_MODE_COMMAND
156.	12:55:10.339	-93	5	38	1	0			2351.	L3SM	GSM	Uplink	12:55:07.754	DCCH	CIPHERING_MODE_COMPLETE
157.	12:55:11.220						5		2352.	L3SM	GSM	Uplink	12:55:07.925	SACCH	MEASUREMENT_REPORT
158.	12:55:11.221	-91	5	38	1	0			2353.	L3SM	GSM	Downlink	12:55:08.294	SACCH	MEASUREMENT_INFORMATION
159.	12:55:12.162	-90	5	38	1	0			2354.	L3SM	GSM	Uplink	12:55:08.396	SACCH	MEASUREMENT_REPORT
160.	12:55:12.162						5		2355.	L3SM	GSM	Downlink	12:55:08.765	SACCH	MEASUREMENT_INFORMATION
161.	12:55:12.633	-93	5	38	1	0			2356.	L3SM	GSM	Uplink	12:55:08.867	SACCH	MEASUREMENT_REPORT
162.	12:55:12.633						7		2357.	L3SM	GSM	Downlink	12:55:09.236	SACCH	MEASUREMENT_INFORMATION
163.	12:55:13.163	-91	5	38	1	0			2358.	L3SM	GSM	Uplink	12:55:09.337	SACCH	MEASUREMENT_REPORT
164.	12:55:13.574						4		2359.	L3SM	GSM	Downlink	12:55:09.706	SACCH	MEASUREMENT_INFORMATION
165.	12:55:14.045						7		2360.	L3SM	GSM	Uplink	12:55:09.808	SACCH	MEASUREMENT_REPORT
166.	12:55:14.104	-93	5	38	1	0			2361.	L3SM	GSM	Downlink	12:55:10.177	SACCH	MEASUREMENT_INFORMATION
167.	12:55:14.516						5		2362.	L3SM	GSM	Uplink	12:55:10.279	SACCH	MEASUREMENT_REPORT
168.	12:55:14.576	-88	5	38	1	0			2363.	L3SM	GSM	Downlink	12:55:10.648	SACCH	MEASUREMENT_INFORMATION
169.	12:55:14.987						1		2364.	L3SM	GSM	Uplink	12:55:10.750	SACCH	MEASUREMENT_REPORT
170.	12:55:15.109	-91	5	38	1	0			2365.	L3SM	GSM	Downlink	12:55:11.119	SACCH	SYSTEM_INFORMATION_TYPE_5
171.	12:55:15.457						6		2366.	L3SM	GSM	Uplink	12:55:11.220	SACCH	MEASUREMENT_REPORT
172.	12:55:15.517	-88	5	38	1	0			2367.	L3SM	GSM	Downlink	12:55:11.280	DCCH	TMSI_REALLOCATION_COMMAND
173.	12:55:15.928						0		2368.	L3SM	GSM	Uplink	12:55:11.281	DCCH	TMSI_REALLOCATION_COMPLETE
174.	12:55:16.237	-88	5	38	1	0			2369.	L3SM	GSM	Downlink	12:55:11.589	SACCH	SYSTEM_INFORMATION_TYPE_5TER
175.	12:55:16.237						0		2370.	L3SM	GSM	Uplink	12:55:11.691	SACCH	MEASUREMENT_REPORT
176.	12:55:16.543						7		2371.	L3SM	GSM	Downlink	12:55:12.060	SACCH	SYSTEM_INFORMATION_TYPE_6

Analysis:

- On MT End, During the setup fail, UE was latched with ARFCN 5 and RF condition Rxlev -90 dBm is good and Rxqual 5 which is poor.
- Call failed at the MT end due to poor network quality. The terminating device experienced low signal strength, leading to call failure.

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

	Time	System	Serving band	Cal	1. best active RSCP	Time	Ch	SC	1. best active Ec/NO	Event ID	System	Transf. dir.	Time	Subchannel	Message name
1.	12:55:16.445	UMTS FDD	2100	Nor	1895. -105	13:11:15.100	10690	198		6460.	RRCSM	UMTS FC Uplink	13:11:16.220	DCCH	MEASUREMENT_REPORT
2.	13:11:24.633	UMTS FDD	2100	Dro	1896.	13:11:15.100	10690	198	-10.3	6461.	RRCSM	UMTS FC Downlink	13:11:16.465	DCCH	RADIO_BEARER_SETUP
3.	14:16:08.948	UMTS FDD	2100	Dro	1897. -104.3	13:11:15.646	10690	198		6462.	RRCSM	UMTS FC Downlink	13:11:16.665	DCCH	DOWNLINK_DIRECT_TRANSFER
					1898.	13:11:15.646	10690	198	-11.1	6463.	L3SM	UMTS FC Downlink	13:11:16.665	DCCH	AUTHENTICATION_AND_CIPHERING_REQU
					1899. -116	13:11:16.136	10690	198		6464.	RRCSM	UMTS FC Uplink	13:11:16.706	DCCH	UPLINK_DIRECT_TRANSFER
					1900.	13:11:16.136	10690	198	-19.8	6465.	L3SM	UMTS FC Uplink	13:11:16.706	DCCH	AUTHENTICATION_AND_CIPHERING_RESPO
					1901. -113.4	13:11:16.646	10690	198		6466.	RRCSM	UMTS FC Uplink	13:11:16.940	DCCH	MEASUREMENT_REPORT
					1902.	13:11:16.646	10690	198	-22.2	6467.	RRCSM	UMTS FC Uplink	13:11:16.960	DCCH	MEASUREMENT_REPORT
					1903. -114.5	13:11:17.141	10690	198		6468.	RRCSM	UMTS FC Uplink	13:11:17.018	DCCH	RADIO_BEARER_SETUP_COMPLETE
					1904.	13:11:17.141	10690	198	-23.3	6469.	RRCSM	UMTS FC Uplink	13:11:17.603	DCCH	MEASUREMENT_REPORT
					1905. -117	13:11:17.501	10690	198		6470.	RRCSM	UMTS FC Uplink	13:11:18.177	DCCH	MEASUREMENT_REPORT
					1906.	13:11:17.501	10690	198	-23.1	6471.	RRCSM	UMTS FC Uplink	13:11:18.863	DCCH	MEASUREMENT_REPORT
					1907. -114.7	13:11:18.148	10690	198		6472.	RRCSM	UMTS FC Uplink	13:11:19.130	DCCH	MEASUREMENT_REPORT
					1908.	13:11:18.148	10690	198	-24.1	6473.	RRCSM	UMTS FC Uplink	13:11:19.763	DCCH	MEASUREMENT_REPORT
					1909. -116.8	13:11:18.508	10690	198		6474.	RRCSM	UMTS FC Uplink	13:11:19.861	DCCH	MEASUREMENT_REPORT
					1910.	13:11:18.508	10690	198	-24.7	6475.	RRCSM	UMTS FC Uplink	13:11:20.081	DCCH	MEASUREMENT_REPORT
					1911. -116.3	13:11:19.149	10690	198		6476.	RRCSM	UMTS FC Uplink	13:11:20.123	DCCH	MEASUREMENT_REPORT
					1912.	13:11:19.149	10690	198	-22.8	6477.	RRCSM	UMTS FC Uplink	13:11:20.303	DCCH	MEASUREMENT_REPORT
					1913. -114.8	13:11:19.511	10690	198		6478.	RRCSM	UMTS FC Uplink	13:11:20.483	DCCH	MEASUREMENT_REPORT
					1914.	13:11:19.511	10690	198	-24.9	6479.	RRCSM	UMTS FC Uplink	13:11:20.701	DCCH	MEASUREMENT_REPORT
					1915. -112.9	13:11:20.164	10690	198		6480.	RRCSM	UMTS FC Uplink	13:11:21.061	DCCH	MEASUREMENT_REPORT
					1916.	13:11:20.164	10690	198	-24.9	6481.	RRCSM	UMTS FC Uplink	13:11:22.031	DCCH	MEASUREMENT_REPORT
					1917. -113.3	13:11:20.681	10690	198		6482.	RRCSM	UMTS FC Uplink	13:11:22.241	DCCH	MEASUREMENT_REPORT
					1918.	13:11:20.681	10690	198	-24.9	6483.	RRCSM	UMTS FC Uplink	13:11:22.391	DCCH	MEASUREMENT_REPORT
					1919. -107.4	13:11:21.163	10690	198		6484.	RRCSM	UMTS FC Uplink	13:11:22.580	DCCH	MEASUREMENT_REPORT
					1920.	13:11:21.163	10690	198	-24.9	6485.	RRCSM	UMTS FC Uplink	13:11:23.131	DCCH	MEASUREMENT_REPORT
					1921. -110.5	13:11:21.646	10690	198		6486.	RRCSM	UMTS FC Uplink	13:11:23.581	DCCH	MEASUREMENT_REPORT
					1922.	13:11:21.646	10690	198	-25.1	6487.	RRCSM	UMTS FC Uplink	13:11:23.901	DCCH	MEASUREMENT_REPORT
					1923. -118.1	13:11:22.370	10690	198		6488.	RRCSM	UMTS FC Downlink	13:11:24.903	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1924.	13:11:22.370	10690	198	-25.4	6489.	RRCSM	UMTS FC Downlink	13:11:24.923	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1925. -105.9	13:11:23.017	10690	198		6490.	RRCSM	UMTS FC Downlink	13:11:24.943	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1926.	13:11:23.017	10690	198	-23.9	6491.	RRCSM	UMTS FC Downlink	13:11:24.943	BCCH	MASTER_INFORMATION_BLOCK
					1927. -112.9	13:11:23.491	10690	198		6492.	RRCSM	UMTS FC Downlink	13:11:24.943	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					1928.	13:11:23.491	10690	198	-22.7	6493.	RRCSM	UMTS FC Downlink	13:11:24.963	BCCH_BCH	SYSTEM_INFORMATION_BCH
					1929. -112.3	13:11:24.000	10690	198		6494.	RRCSM	UMTS FC Downlink	13:11:24.963	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_2
					1930.	13:11:24.000	10690	198	-24.8	6495.	RRCSM	UMTS FC Downlink	13:11:24.963	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_3

Analysis:

- This call failure event occurred on short call at 13:11:24:633 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 198 and RF condition RSCP -113.3 dBm poor but Ec/No -24.9 dB are very poor.
- Call failed due to poor network coverage and quality at the MO site. Low signal strength and degraded network quality are contributing to call failures

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

	Time	System	Serving band	Cal	1. best active RSCP	Time	Ch	SC	1. best active Ec/No		Event ID	System	Transf. dir.	Time	Subchannel	Message name	
1.	12:55:16.445	UMTS FDD	2100	Nor	7027.	14:16:03.111	10690	112	-4.4		20201.	RRCSM	UMTS FC	Downlink	14:16:06.429	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
2.	13:11:24.633	UMTS FDD	2100	Dro	7028.	14:16:03.485	10690	112	-95.7		20202.	RRCSM	UMTS FC	Downlink	14:16:07.389	BCCH_BCH	SYSTEM_INFORMATION_BCH
3.	14:16:08.948	UMTS FDD	2100	Dro	7029.	14:16:03.485	10690	112	-5.3		20203.	RRCSM	UMTS FC	Downlink	14:16:07.389	BCCH	MASTER_INFORMATION_BLOCK
					7030.	14:16:04.164	10690	112	-94.1		20204.	RRCSM	UMTS FC	Downlink	14:16:07.389	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					7031.	14:16:04.164	10690	112	-4.7		20205.	RRCSM	UMTS FC	Downlink	14:16:07.669	BCCH_BCH	SYSTEM_INFORMATION_BCH
					7032.	14:16:04.524	10690	112	-90		20206.	RRCSM	UMTS FC	Downlink	14:16:07.709	BCCH_BCH	SYSTEM_INFORMATION_BCH
					7033.	14:16:04.524	10690	112	-3.7		20207.	RRCSM	UMTS FC	Downlink	14:16:07.709	BCCH	MASTER_INFORMATION_BLOCK
					7034.	14:16:05.171	10690	112	-91.4		20208.	RRCSM	UMTS FC	Downlink	14:16:07.709	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					7035.	14:16:05.171	10690	112	-4		20209.	RRCSM	UMTS FC	Downlink	14:16:08.029	BCCH_BCH	SYSTEM_INFORMATION_BCH
					7036.	14:16:05.556	10690	112	-89.5		20210.	RRCSM	UMTS FC	Downlink	14:16:08.029	BCCH	MASTER_INFORMATION_BLOCK
					7037.	14:16:05.556	10690	112	-3.7		20211.	RRCSM	UMTS FC	Downlink	14:16:08.029	BCCH	SYSTEM_INFORMATION_BLOCK_TYPE_7
					7038.	14:16:06.172	10690	112	-99.8		20212.	RRCSM	UMTS FC	Downlink	14:16:08.063	DCCH	RADIO_BEARER_SETUP
					7039.	14:16:06.172	10690	112	-8.5		20213.	RRCSM	UMTS FC	Uplink	14:16:08.122	DCCH	RADIO_BEARER_SETUP_COMPLETE
					7040.	14:16:06.422	10690	112	-92.4		20214.	RRCSM	UMTS FC	Downlink	14:16:08.636	DCCH	MEASUREMENT_CONTROL
					7041.	14:16:06.422	10690	112	-4.9		20215.	RRCSM	UMTS FC	Downlink	14:16:08.676	DCCH	MEASUREMENT_CONTROL
					7042.	14:16:07.183	10690	112	-91.5		20216.	RRCSM	UMTS FC	Downlink	14:16:08.756	DCCH	MEASUREMENT_CONTROL
					7043.	14:16:07.183	10690	112	-3.7		20217.	RRCSM	UMTS FC	Downlink	14:16:08.796	DCCH	MEASUREMENT_CONTROL
					7044.	14:16:07.711	10690	112	-91.1		20218.	RRCSM	UMTS FC	Downlink	14:16:08.836	DCCH	MEASUREMENT_CONTROL
					7045.	14:16:07.711	10690	112	-3.7		20219.	RRCSM	UMTS FC	Downlink	14:16:08.916	DCCH	DOWNLINK_DIRECT_TRANSFER
					7046.	14:16:08.218	10690	112	-94.5		20220.	L3SM	UMTS FC	Downlink	14:16:08.916	DCCH	DISCONNECT
					7047.	14:16:08.218	10690	112	-5		20221.	RRCSM	UMTS FC	Uplink	14:16:08.948	DCCH	UPLINK_DIRECT_TRANSFER
					7048.	14:16:08.917	10690	112	-93.9		20222.	L3SM	UMTS FC	Uplink	14:16:08.948	DCCH	RELEASE
					7049.	14:16:08.917	10690	112	-5.4		20223.	RRCSM	UMTS FC	Downlink	14:16:09.195	DCCH	DOWNLINK_DIRECT_TRANSFER
					7050.	14:16:09.266	10690	112	-91.9		20224.	L3SM	UMTS FC	Downlink	14:16:09.195	DCCH	RELEASE_COMPLETE
					7051.	14:16:09.266	10690	112	-4.9		20225.	RRCSM	UMTS FC	Downlink	14:16:09.395	DCCH	RADIO_BEARER_RELEASE
					7052.	14:16:09.886	10690	112	-91.5		20226.	RRCSM	UMTS FC	Uplink	14:16:09.975	DCCH	MEASUREMENT_REPORT
					7053.	14:16:09.886	10690	112	-4.7		20227.	RRCSM	UMTS FC	Uplink	14:16:10.048	DCCH	MEASUREMENT_REPORT
					7054.	14:16:10.355	10690	112	-97.8		20228.	RRCSM	UMTS FC	Uplink	14:16:10.163	DCCH	RADIO_BEARER_RELEASE_COMPLETE
					7055.	14:16:10.355	10690	112	-10.2		20229.	RRCSM	UMTS FC	Downlink	14:16:10.395	DCCH	MEASUREMENT_CONTROL
					7056.	14:16:40.417	10690	112	-91		20230.	RRCSM	UMTS FC	Downlink	14:16:10.435	DCCH	RRC_CONNECTION_RELEASE
					7057.	14:16:40.417	10690	112	-6		20231.	RRCSM	UMTS FC	Uplink	14:16:10.435	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					7058.	14:16:40.899	10690	112	-91		20232.	RRCSM	UMTS FC	Uplink	14:16:10.476	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					7059.	14:16:40.899	10690	112	-5.9		20233.	RRCSM	UMTS FC	Downlink	14:16:10.515	DCCH	RRC_CONNECTION_RELEASE
					7060.	14:16:41.408	10690	112	-91		20234.	RRCSM	LTE FDD	Downlink	14:16:10.811	BCCH-BCH	MasterInformationBlock
					7061.	14:16:41.408	10690	112	-6.4		20235.	RRCSM	LTE FDD	Downlink	14:16:10.835	BCCH-SCH	SystemInformationBlockType1

Analysis:

- This call failure event occurred on short call at 14:16:08:948 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 112 and RF condition RSCP -93.9 dBm good but Ec/No -5.4 dB are very good.
- Need to check MT.

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

	Time	Band	Band (MHz)	Ch	PCI	RSRP	SNR	▲	Event ID	System	Transf. dir.	Time	Subchannel	Message name	
11084.	14:15:06.757						6.8		21137.	RRCSM	LTE FDD	Downlink	14:15:25.852	BCCH-SCH	SystemInformation - SIB5
11085.	14:15:08.173	B3	1800	1849	153	-109.4			21138.	RRCSM	LTE FDD	Downlink	14:15:25.869	DCCH	RRCCConnectionReconfiguration
11086.	14:15:08.173						4.7		21139.	RRCSM	LTE FDD	Uplink	14:15:25.871	DCCH	RRCCConnectionReconfiguration
11087.	14:15:09.587	B3	1800	1849	153	-111.4			21140.	RRCSM	LTE FDD	Uplink	14:15:26.229	DCCH	MeasurementReport
11088.	14:15:09.587						2.9		21141.	RRCSM	LTE FDD	Downlink	14:15:26.288	DCCH	RRCCConnectionReconfiguration
11089.	14:15:24.200	B3	1800	1849	180	-115.7			21142.	RRCSM	LTE FDD	Uplink	14:15:26.290	DCCH	RRCCConnectionReconfiguration
11090.	14:15:24.200								21143.	RRCSM	LTE FDD	Downlink	14:15:26.551	BCCH-SCH	SystemInformationBlockType1
11091.	14:15:24.200						0.3		21144.	RRCSM	LTE FDD	Downlink	14:15:26.555	PCCH	Paging
11092.	14:15:24.462	B3	1800	1849	180	-115.8			21145.	RRCSM	LTE FDD	Uplink	14:15:27.027	DCCH	MeasurementReport
11093.	14:15:24.462						-1.6		21146.	RRCSM	LTE FDD	Downlink	14:15:27.107	DCCH	RRCCConnectionReconfiguration
11094.	14:15:25.785	B3	1800	1849	180	-119.4			21147.	RRCSM	LTE FDD	Uplink	14:15:27.109	DCCH	RRCCConnectionReconfiguration
11095.	14:15:25.785						-1.3		21148.	RRCSM	LTE FDD	Uplink	14:15:27.516	DCCH	MeasurementReport
11096.	14:15:26.304	B3	1800	1849	153	-115.7			21149.	RRCSM	LTE FDD	Uplink	14:15:27.516	DCCH	MeasurementReport
11097.	14:15:26.304						-0.5		21150.	RRCSM	LTE FDD	Uplink	14:15:28.187	DCCH	MeasurementReport
11098.	14:15:26.562	B3	1800	1849	153	-116.8			21151.	RRCSM	LTE FDD	Downlink	14:15:28.227	DCCH	RRCCConnectionRelease
11099.	14:15:26.562						-0.8		21152.	RRCSM	LTE FDD	Downlink	14:16:05.152	BCCH-BCH	MasterInformationBlock
11100.	14:15:27.259	B3	1800	1849	153	-118.9			21153.	RRCSM	LTE FDD	Downlink	14:16:05.176	BCCH-SCH	SystemInformationBlockType1
11101.	14:15:27.259						-1.3		21154.	RRCSM	LTE FDD	Downlink	14:16:05.176	BCCH-SCH	SystemInformation - SIB2, SIB3
11102.	14:15:27.855	B3	1800	1849	153	-119.6			21155.	RRCSM	LTE FDD	Downlink	14:16:05.176	BCCH-SCH	SystemInformation - SIB5
11103.	14:15:27.855						-1.5		21156.	RRCSM	LTE FDD	Downlink	14:16:05.776	BCCH-SCH	SystemInformationBlockType1
11104.	14:15:28.335	B3	1800	1849	153	-118.1			21157.	RRCSM	LTE FDD	Downlink	14:16:07.542	PCCH	Paging
11105.	14:15:28.335						-1.5		21158.	RRCSM	LTE FDD	Downlink	14:16:08.822	PCCH	Paging
11106.	14:15:31.172								21159.	RRCSM	LTE FDD	Downlink	14:16:10.102	PCCH	Paging
11107.	14:16:05.196	B3	1800	1849	180	-107.1			21160.	RRCSM	LTE FDD	Downlink	14:16:11.382	PCCH	Paging
11108.	14:16:06.303	B3	1800	1849	180	-107.5			21161.	RRCSM	LTE FDD	Downlink	14:16:12.662	PCCH	Paging
11109.	14:16:06.303						7.2		21162.	RRCSM	LTE FDD	Downlink	14:16:13.942	PCCH	Paging
11110.	14:16:06.316	B3	1800	1849	180	-107.5			21163.	RRCSM	LTE FDD	Downlink	14:16:15.337	PCCH	Paging
11111.	14:16:07.696	B3	1800	1849	180	-103.1			21164.	RRCSM	LTE FDD	Downlink	14:16:16.502	PCCH	Paging
11112.	14:16:07.696						9		21165.	RRCSM	LTE FDD	Downlink	14:16:17.782	PCCH	Paging
11113.	14:16:08.822	B3	1800	1849	180	-103.5			21166.	RRCSM	LTE FDD	Downlink	14:16:19.062	PCCH	Paging
11114.	14:16:08.822						8.7		21167.	RRCSM	LTE FDD	Downlink	14:16:20.342	PCCH	Paging
11115.	14:16:09.174	B3	1800	1849	180	-103.5			21168.	RRCSM	LTE FDD	Downlink	14:16:21.622	PCCH	Paging
11116.	14:16:10.282	B3	1800	1849	180	-103.1			21169.	RRCSM	LTE FDD	Downlink	14:16:22.902	PCCH	Paging
11117.	14:16:10.282						7.7		21170.	RRCSM	LTE FDD	Downlink	14:16:24.182	PCCH	Paging
11118.	14:16:11.696	B3	1800	1849	180	-104.4			21171.	RRCSM	LTE FDD	Downlink	14:16:25.462	PCCH	Paging
11119.	14:16:11.696						9		21172.	RRCSM	LTE FDD	Downlink	14:16:29.302	PCCH	Paging
11120.	14:16:12.716	B3	1800	1849	180	-106.2			21173.	RRCSM	LTE FDD	Downlink	14:16:31.862	PCCH	Paging
11121.	14:16:12.716						6.8		21174.	RRCSM	LTE FDD	Downlink	14:16:33.142	PCCH	Paging

Analysis:

- On MT End, During the setup fail, UE was latched with PCI 180 and RF condition RSRO -103.5 dBm is poor and SINR 8.7 which is good.
- Call failed at the MT end due to poor network coverage. The terminating device experienced low signal strength, leading to call failure.

Phase-2 Call Drop Analysis 1 From MS9 Airtel MO

	Time	System	Serving band	Call type	Cal		Time	RxLev sub	ARFCN	BSIC	LAC	RAC	RXQ sub		System	Transf. dir.	Time	Subchannel	Message name	
1.	13:48:40.306	GSM	900	Voice call	Orig	634.	13:48:33.720						4		8955.	GSM	Downlink	13:48:35.594	SACCH	MEASUREMENT_INFORMATION
						635.	13:48:34.153	-92	109	1	50000				8956.	GSM	Uplink	13:48:35.640	SACCH	MEASUREMENT_REPORT
						636.	13:48:34.200						6		8957.	GSM	Downlink	13:48:36.074	SACCH	SYSTEM_INFORMATION_TYPE_6
						637.	13:48:34.680						7		8958.	GSM	Uplink	13:48:36.120	SACCH	MEASUREMENT_REPORT
						638.	13:48:34.786	-96	109	1	50000				8959.	GSM	Downlink	13:48:36.554	SACCH	SYSTEM_INFORMATION_TYPE_5
						639.	13:48:35.160						5		8960.	GSM	Uplink	13:48:36.600	SACCH	MEASUREMENT_REPORT
						640.	13:48:35.173	-93	109	1	50000				8961.	GSM	Downlink	13:48:37.034	SACCH	MEASUREMENT_INFORMATION
						641.	13:48:35.640						6		8962.	GSM	Uplink	13:48:37.080	SACCH	MEASUREMENT_REPORT
						642.	13:48:35.644	-93	109	1	50000				8963.	GSM	Downlink	13:48:37.514	SACCH	SYSTEM_INFORMATION_TYPE_6
						643.	13:48:36.174	-94	109	1	50000				8964.	GSM	Uplink	13:48:37.560	SACCH	MEASUREMENT_REPORT
						644.	13:48:36.701	-94	109	1	50000				8965.	GSM	Downlink	13:48:37.994	SACCH	SYSTEM_INFORMATION_TYPE_5
						645.	13:48:37.264	-93	109	1	50000				8966.	GSM	Uplink	13:48:38.040	SACCH	MEASUREMENT_REPORT
						646.	13:48:37.560						5		8967.	GSM	Downlink	13:48:38.474	SACCH	MEASUREMENT_INFORMATION
						647.	13:48:37.804	-92	109	1	50000				8968.	GSM	Uplink	13:48:38.520	SACCH	MEASUREMENT_REPORT
						648.	13:48:38.040						6		8969.	GSM	Downlink	13:48:38.954	SACCH	SYSTEM_INFORMATION_TYPE_6
						649.	13:48:38.247	-94	109	1	50000				8970.	GSM	Uplink	13:48:39.000	SACCH	MEASUREMENT_REPORT
						650.	13:48:38.520						5		8971.	GSM	Downlink	13:48:39.434	SACCH	SYSTEM_INFORMATION_TYPE_5
						651.	13:48:38.746	-92	109	1	50000				8972.	GSM	Uplink	13:48:39.480	SACCH	MEASUREMENT_REPORT
						652.	13:48:39.000						7		8973.	GSM	Downlink	13:48:39.914	SACCH	MEASUREMENT_INFORMATION
						653.	13:48:39.174	-94	109	1	50000				8974.	GSM	Uplink	13:48:39.960	SACCH	MEASUREMENT_REPORT
						654.	13:48:39.480						6		8975.	GSM	Downlink	13:48:40.306	DCCH	DISCONNECT
						655.	13:48:40.047	-94	109	1	50000				8976.	GSM	Uplink	13:48:40.306	DCCH	RELEASE
						656.	13:48:40.440						6		8977.	GSM	Downlink	13:48:40.426	DCCH	RELEASE_COMPLETE
						657.	13:48:40.486	-94	109	1	50000				8978.	GSM	Uplink	13:48:40.440	SACCH	MEASUREMENT_REPORT
						658.	13:48:41.105	-94	109	1	50000				8979.	GSM	Downlink	13:48:40.546	DCCH	CHANNEL_RELEASE
						659.	13:48:41.105								8980.	GSM	Uplink	13:48:41.110	DCCH	LOCATION_UPDATING_REQUEST
						660.	13:48:44.575				50000	1			8981.	GSM	Downlink	13:48:41.506	BCCH	SYSTEM_INFORMATION_TYPE_4
						661.	13:48:45.115				50000	1			8982.	GSM	Downlink	13:48:41.755	BCCH	SYSTEM_INFORMATION_TYPE_3
						662.	13:48:46.957						4		8983.	GSM	Downlink	13:48:41.984	BCCH	SYSTEM_INFORMATION_TYPE_2
						663.	13:48:47.173	-94	110	17	50000	1			8984.	GSM	Downlink	13:48:43.152	BCCH	SYSTEM_INFORMATION_TYPE_3
						664.	13:48:47.428						2		8985.	GSM	Downlink	13:48:43.626	BCCH	SYSTEM_INFORMATION_TYPE_1
						665.	13:48:47.488	-93	110	17	50000	1			8986.	GSM	Downlink	13:48:43.644	BCCH	SYSTEM_INFORMATION_TYPE_13
						666.	13:48:47.899						6		8987.	GSM	Downlink	13:48:44.679	CCCH	PAGING_REQUEST_TYPE_1
						667.	13:48:48.197	-92	110	17	50000	1			8988.	GSM	Downlink	13:48:44.821	BCCH	SYSTEM_INFORMATION_TYPE_2QUATER
						668.	13:48:48.370						7		8989.	GSM	Downlink	13:48:46.220	BCCH	SYSTEM_INFORMATION_TYPE_4
						669.	13:48:48.703	-92	110	17	50000	1			8990.	GSM	Downlink	13:48:46.504	CCCH	IMMEDIATE_ASSIGNMENT

Analysis:

- This call drop event occurred on long call at 13:48:40:306 time when UE was latched with 2G network.
- After getting Alerting message at 13:47:04:126 time than Call drop happened.
- During the session UE was latched with ARFCN 109 and RF condition Rx lev -94 dBm is good and Rx qual 6 dB was very poor.
- As per the Analysis the call setup drop event occurred due to poor quality in the network.

Phase-2 Call Drop Analysis 1 From MS11 CWS MO

	Time	System	Serving band	Call type		1. best active RSCP	Time	Ch	SC	1. best active Ec/NO		System	Transf. dir.	Time	Subchannel	Message name	
1.	13:54:35.854	UMTS FDD	2100	Voice call	5901.	-85.7	13:54:30.382	10690	44			11587.	UMTS FDD	Uplink	13:53:44.033	DCCH	MEASUREMENT_REPORT
					5902.		13:54:30.382	10690	44	-5.4		11588.	UMTS FDD	Uplink	13:53:50.033	DCCH	MEASUREMENT_REPORT
					5903.	-87.2	13:54:31.055	10690	44			11589.	UMTS FDD	Uplink	13:53:55.933	DCCH	MEASUREMENT_REPORT
					5904.		13:54:31.055	10690	44	-3.7		11590.	UMTS FDD	Uplink	13:53:56.043	DCCH	MEASUREMENT_REPORT
					5905.	-87.8	13:54:31.642	10690	44			11591.	UMTS FDD	Uplink	13:54:01.005	DCCH	MEASUREMENT_REPORT
					5906.		13:54:31.642	10690	44	-4.1		11592.	UMTS FDD	Uplink	13:54:01.005	DCCH	MEASUREMENT_REPORT
					5907.	-89.3	13:54:32.104	10690	44			11593.	UMTS FDD	Downlink	13:54:01.252	DCCH	ACTIVE_SET_UPDATE
					5908.		13:54:32.104	10690	44	-5		11594.	UMTS FDD	Uplink	13:54:01.284	DCCH	ACTIVE_SET_UPDATE_COMPLETE
					5909.	-88.6	13:54:32.562	10690	44			11595.	UMTS FDD	Downlink	13:54:01.572	DCCH	MEASUREMENT_CONTROL
					5910.		13:54:32.562	10690	44	-4.6		11596.	UMTS FDD	Uplink	13:54:02.043	DCCH	MEASUREMENT_REPORT
					5911.	-85.5	13:54:33.112	10690	44			11597.	UMTS FDD	Uplink	13:54:07.933	DCCH	MEASUREMENT_REPORT
					5912.		13:54:33.112	10690	44	-4.5		11598.	UMTS FDD	Uplink	13:54:08.053	DCCH	MEASUREMENT_REPORT
					5913.	-84.2	13:54:33.464	10690	44			11599.	UMTS FDD	Uplink	13:54:14.053	DCCH	MEASUREMENT_REPORT
					5914.		13:54:33.464	10690	44	-4.4		11600.	UMTS FDD	Uplink	13:54:19.933	DCCH	MEASUREMENT_REPORT
					5915.	-92.5	13:54:34.102	10690	44			11601.	UMTS FDD	Uplink	13:54:20.063	DCCH	MEASUREMENT_REPORT
					5916.		13:54:34.102	10690	44	-9.2		11602.	UMTS FDD	Uplink	13:54:20.764	DCCH	MEASUREMENT_REPORT
					5917.	-83.4	13:54:34.602	10690	44			11603.	UMTS FDD	Uplink	13:54:26.063	DCCH	MEASUREMENT_REPORT
					5918.		13:54:34.602	10690	44	-4.7		11604.	UMTS FDD	Uplink	13:54:26.064	DCCH	MEASUREMENT_REPORT
					5919.	-89.1	13:54:35.114	10690	44			11605.	UMTS FDD	Uplink	13:54:31.345	DCCH	MEASUREMENT_REPORT
					5920.		13:54:35.114	10690	44	-6.5		11606.	UMTS FDD	Uplink	13:54:31.933	DCCH	MEASUREMENT_REPORT
					5921.	-90.2	13:54:35.604	10690	44			11607.	UMTS FDD	Uplink	13:54:32.073	DCCH	MEASUREMENT_REPORT
					5922.		13:54:35.604	10690	44	-5.7		11608.	UMTS FDD	Downlink	13:54:35.852	DCCH	DOWNLINK_DIRECT_TRANSFER
					5923.	-83.9	13:54:36.162	10690	44			11609.	UMTS FDD	Downlink	13:54:35.852	DCCH	DISCONNECT
					5924.		13:54:36.162	10690	44	-5.1		11610.	UMTS FDD	Uplink	13:54:35.854	DCCH	UPLINK_DIRECT_TRANSFER
					5925.	-91.5	13:54:36.574	10690	44			11611.	UMTS FDD	Uplink	13:54:35.854	DCCH	RELEASE
					5926.		13:54:36.574	10690	44	-6.2		11612.	UMTS FDD	Downlink	13:54:36.212	DCCH	RADIO_BEARER_RELEASE
					5927.	-90.2	13:54:37.109	10690	44			11613.	UMTS FDD	Downlink	13:54:36.252	DCCH	DOWNLINK_DIRECT_TRANSFER
					5928.		13:54:37.109	10690	44	-6.7		11614.	UMTS FDD	Downlink	13:54:36.252	DCCH	RELEASE_COMPLETE
					5929.	-85	13:55:31.459	10690	44			11615.	UMTS FDD	Uplink	13:54:37.063	DCCH	RADIO_BEARER_RELEASE_COMPLETE
					5930.		13:55:31.459	10690	44	-8.9		11616.	UMTS FDD	Downlink	13:54:37.332	DCCH	RRC_CONNECTION_RELEASE
					5931.	-97.8	13:55:31.689	10690	44			11617.	UMTS FDD	Uplink	13:54:37.332	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					5932.		13:55:31.689	10690	44	-13		11618.	UMTS FDD	Downlink	13:54:37.372	DCCH	MEASUREMENT_CONTROL
					5933.	-90.8	13:55:32.173	10690	114			11619.	UMTS FDD	Uplink	13:54:37.372	DCCH	RRC_CONNECTION_RELEASE_COMPLETE
					5934.		13:55:32.173	10690	114	-5.4		11620.	UMTS FDD	Downlink	13:54:37.412	DCCH	RRC_CONNECTION_RELEASE
					5935.	-89.4	13:55:32.957	10690	44			11621.	LTE FDD	Downlink	13:54:37.711	BCCH-BCH	MasterInformationBlock
					5936.		13:55:32.957	10690	114	-7.7		11622.	LTE FDD	Downlink	13:54:37.735	BCCH-SCH	SystemInformationBlockType1

Analysis:

- This call drop event occurred on long call at 13:54:35:854 time when UE was latched with 3G network.
- After getting Alerting message at 13:52:40:328 time than Call drop happened.
- During the failure, UE was latched with PSC 44 and RF condition RSCP -90.2 dBm good but Ec/No -5.7 dB are very good.
- As per the Analysis the call setup drop event occurred due to poor quality in the network.
- Need to check MT.

Downlink

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

M Protocol Discriminator (hex data: 3)

(0x3) Call control (call related SS message)

M Transaction Identifier (hex data: 8)

TI flag: 1 (the message is sent to the side that originates the TI)

TI value: 0

M Message Type (hex data: 25)

Message number: 37

M Cause (hex data: 02e09b)

Coding standard: Standard defined for the GSM PLMNs

Location: user

Cause (27): Destination out of order

Phase-2 Call Drop Analysis 1 From MS12 CWS MT

	Time	RxLev sub	ARFCN	BSIC	C2	LAC	RAC	RXQ sub ▲		Event ID	System	Transf. dir.	Time	Subchannel	Message name
4465.	13:51:41.610	-97	26	28		1	10			12185.	RRC	UMTS FC Uplink	13:53:50.231	DCCH	MEASUREMENT_REPORT
4466.	13:51:41.610							5		12186.	RRC	UMTS FC Uplink	13:53:50.531	DCCH	MEASUREMENT_REPORT
4467.	13:51:42.090							7		12187.	RRC	UMTS FC Uplink	13:53:50.663	DCCH	MEASUREMENT_REPORT
4468.	13:51:42.215	-98	26	28		1	10			12188.	RRC	UMTS FC Uplink	13:53:50.731	DCCH	MEASUREMENT_REPORT
4469.	13:51:42.524									12189.	RRC	UMTS FC Uplink	13:53:51.231	DCCH	MEASUREMENT_REPORT
4470.	13:53:52.128	-97	26	17		10	10			12190.	RRC	UMTS FC Downlink	13:53:51.490	DCCH	HANDOVER_FROM_UTRAN_COMMAND_G
4471.	13:53:52.128							7		12191.	L3SM	UMTS FE Downlink	13:53:51.490	DCCH	HANDOVER_COMMAND
4472.	13:53:52.543	-96	26	17		10	10			12192.	L3SM	GSM Downlink	13:53:51.508	DCCH	HANDOVER_COMMAND
4473.	13:53:53.129	-98	26	17		10	10			12193.	L3SM	GSM Downlink	13:53:51.689	DCCH	PHYSICAL_INFORMATION
4474.	13:53:53.129							7		12194.	L3SM	GSM Uplink	13:53:51.690	DCCH	HANDOVER_COMPLETE
4475.	13:53:53.342							6		12195.	L3SM	GSM Uplink	13:53:51.820	DCCH	GPRS_SUSPENSION_REQUEST
4476.	13:53:53.429	-96	26	17		1	10			12196.	L3SM	GSM Uplink	13:53:51.902	SACCH	MEASUREMENT_REPORT
4477.	13:53:53.822							6		12197.	L3SM	GSM Uplink	13:53:52.382	SACCH	MEASUREMENT_REPORT
4478.	13:53:54.174	-95	26	17		1	10			12198.	L3SM	GSM Downlink	13:53:52.608	DCCH	IDENTITY_REQUEST
4479.	13:53:54.302							6		12199.	L3SM	GSM Uplink	13:53:52.608	DCCH	IDENTITY_RESPONSE
4480.	13:53:54.366	-96	26	17		1	10			12200.	L3SM	GSM Downlink	13:53:52.816	SACCH	SYSTEM_INFORMATION_TYPE_5TER
4481.	13:53:54.782							7		12201.	L3SM	GSM Uplink	13:53:52.862	SACCH	MEASUREMENT_REPORT
4482.	13:53:55.176	-96	26	17		1	10			12202.	L3SM	GSM Downlink	13:53:53.296	SACCH	SYSTEM_INFORMATION_TYPE_6
4483.	13:53:55.788	-98	26	17		1	10			12203.	L3SM	GSM Uplink	13:53:53.342	SACCH	MEASUREMENT_REPORT
4484.	13:53:56.628	-99	26	17		1	10			12204.	L3SM	GSM Downlink	13:53:53.776	SACCH	MEASUREMENT_INFORMATION
4485.	13:53:57.306	-98	26	17		1	10			12205.	L3SM	GSM Uplink	13:53:53.822	SACCH	MEASUREMENT_REPORT
4486.	13:53:59.107	-98	26	17		1	10			12206.	L3SM	GSM Downlink	13:53:54.256	SACCH	MEASUREMENT_INFORMATION
4487.	13:53:59.582	-98	26	17		1	10			12207.	L3SM	GSM Uplink	13:53:54.302	SACCH	MEASUREMENT_REPORT
4488.	13:54:00.066	-99	26	17		1	10			12208.	L3SM	GSM Downlink	13:53:54.736	SACCH	MEASUREMENT_INFORMATION
4489.	13:54:01.105	-100	26	17		1	10			12209.	L3SM	GSM Uplink	13:53:54.782	SACCH	MEASUREMENT_REPORT
4490.	13:54:01.566	-99	26	17		1	10			12210.	L3SM	GSM Uplink	13:53:55.262	SACCH	MEASUREMENT_REPORT
4491.	13:54:02.069	-99	26	17		1	10			12211.	L3SM	GSM Uplink	13:53:55.742	SACCH	MEASUREMENT_REPORT
4492.	13:54:02.545	-99	26	17		1	10			12212.	L3SM	GSM Uplink	13:53:56.222	SACCH	MEASUREMENT_REPORT
4493.	13:54:03.177	-99	26	17		1	10			12213.	L3SM	GSM Uplink	13:53:56.702	SACCH	MEASUREMENT_REPORT
4494.	13:54:03.426	-100	26	17		1	10			12214.	L3SM	GSM Uplink	13:53:57.182	SACCH	MEASUREMENT_REPORT
4495.	13:54:04.110	-100	26	17		1	10			12215.	L3SM	GSM Uplink	13:53:57.662	SACCH	MEASUREMENT_REPORT
4496.	13:54:04.428	-99	26	17		1	10			12216.	L3SM	GSM Uplink	13:53:58.142	SACCH	MEASUREMENT_REPORT
4497.	13:54:05.226	-99	26	17		1	10			12217.	L3SM	GSM Uplink	13:53:58.622	SACCH	MEASUREMENT_REPORT
4498.	13:54:05.886	-100	26	17		1	10			12218.	L3SM	GSM Downlink	13:53:59.056	SACCH	SYSTEM_INFORMATION_TYPE_5
4499.	13:54:06.666	-100	26	17		1	10			12219.	L3SM	GSM Uplink	13:53:59.102	SACCH	MEASUREMENT_REPORT
4500.	13:54:07.169	-100	26	17		1	10			12220.	L3SM	GSM Uplink	13:53:59.582	SACCH	MEASUREMENT_REPORT
4501.	13:54:07.829	-99	26	17		1	10			12221.	L3SM	GSM Uplink	13:54:00.062	SACCH	MEASUREMENT_REPORT

Analysis:

- On MT End, During the setup fail, UE was latched with ARFCN 26 and RF condition Rxlev -96 dBm is good and Rxqual 7 which is poor.
- Call failed at the MT end due to poor network quality. The terminating device experienced low signal strength, leading to call failure.

THANKS