

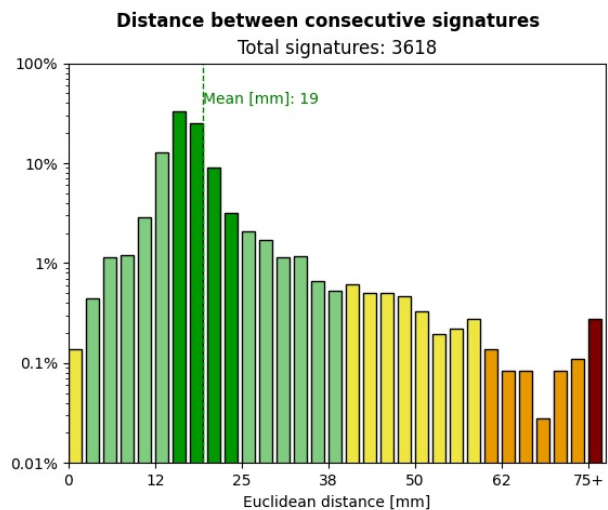
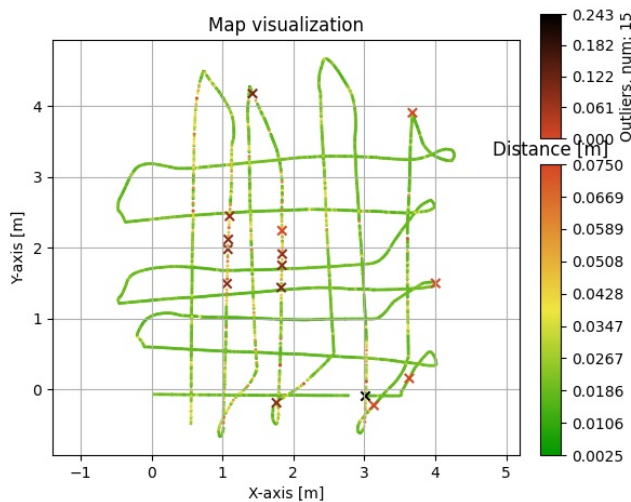
Overview

There are tests that **failed!**

Test id	Test description	Measured value	Condition	Result
9A	Mapping			
9A.1	loop closure position errors [m], maximum	no data	< 0.05	no data
9A.2	loop closure position errors [m], average	no data	< 0.01	no data
9A.3	loop closure heading errors [deg], maximum	no data	< 3.	no data
9A.4	loop closure heading errors [deg], average	no data	< 0.6	no data
9A.5	distance signatures [m], max	0.24305062631682317	< 0.075	fail
9A.6	distance signatures [m], percentile < 0.15	99.9723604201216	> 99.95	pass
9A.7	distance signatures [m], minimum	1.0049875621155798e-05	> 0.0025	fail
9A.8	distance signatures [m], average	0.01935685154403041	> 0.016 and < 0.024	pass
9B	Localization			
9B.1	distance corrections [m], max	0.6833227641459052	< 0.66	fail
9B.2	position errors [m], max	12.289743691387546	< 0.10	fail
9B.3	position errors [m], percentile < 0.05	99.93876301285977	> 99.9	pass
9B.4	orientation errors [deg], max	86.76	< 20	fail
9B.5	orientation errors [deg], percentile < 10	99.93876301285977	> 99.9	pass
9B.6	match quality [%], min	10	> 20	fail
9B.7	line following position errors [m], max	no data	< 0.05	no data
9B.8	line following position errors [m], percentile < 0.02	no data	> 99.0	no data

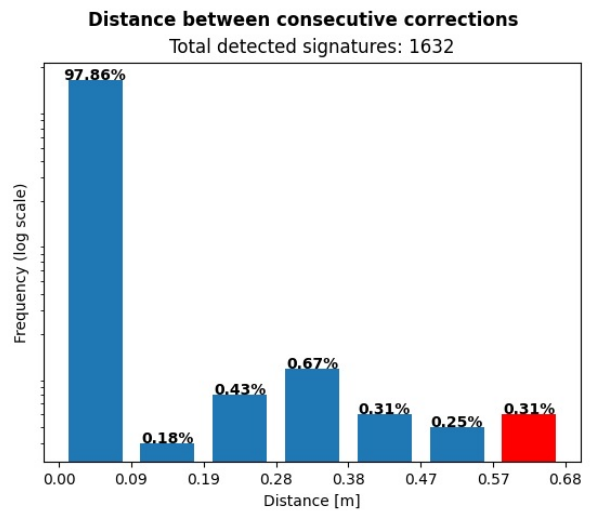
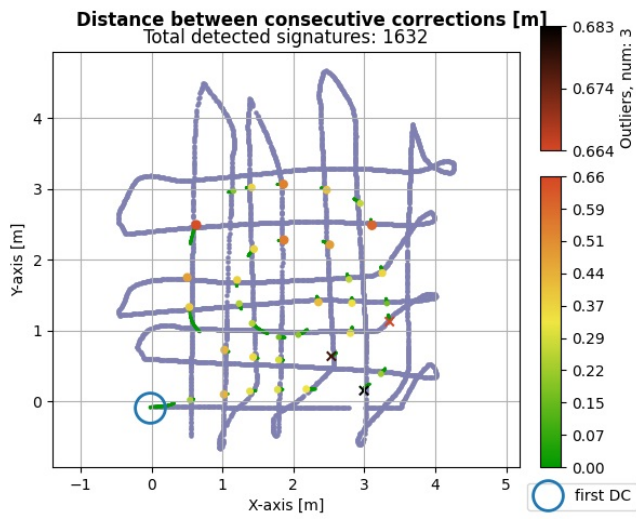
Details will be given for all tests having data available.

Distance between signatures



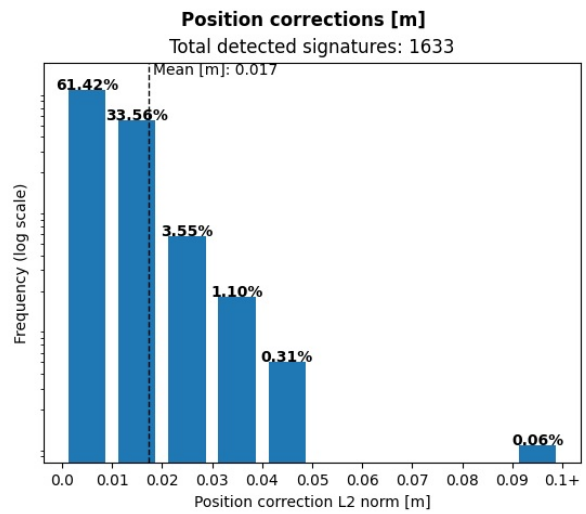
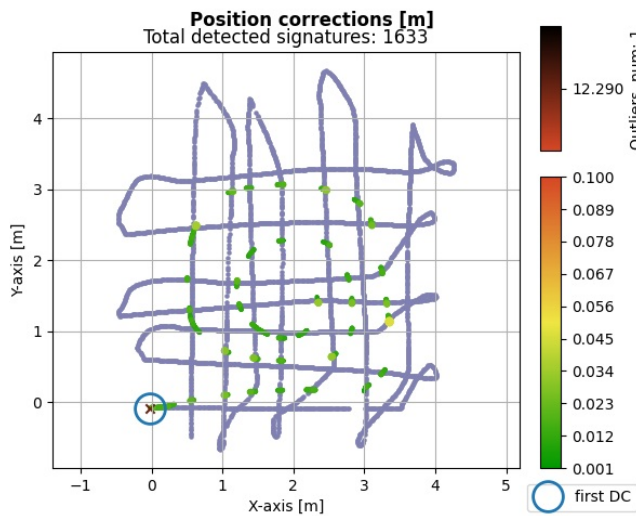
Test id	Test description	Measured value	Condition	Result
9A.5	distance signatures [m], max	0.243051	< 0.075	fail
9A.6	distance signatures [m], percentile < 0.15	99.9724	> 99.95	pass
9A.7	distance signatures [m], minimum	1.00499e-05	> 0.0025	fail
9A.8	distance signatures [m], average	0.0193569	> 0.016 and < 0.024	pass

Distance between corrections



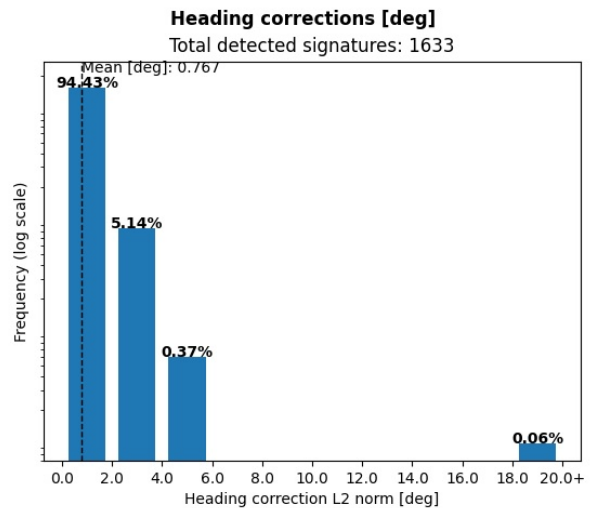
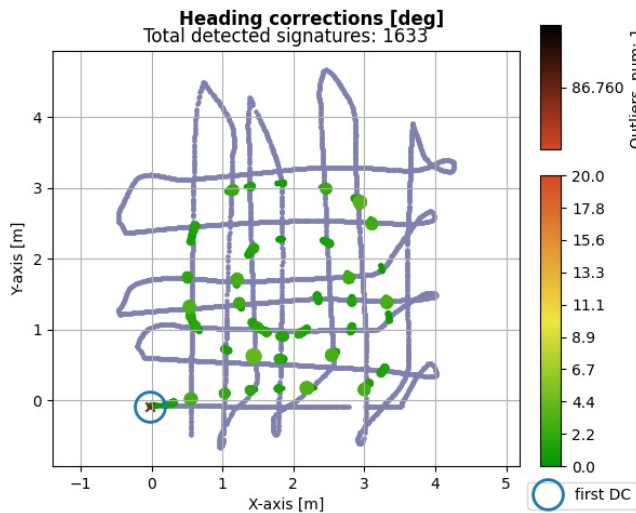
Test id	Test description	Measured value	Condition	Result
9B.1	distance corrections [m], max	0.683323	< 0.66	fail

Position corrections



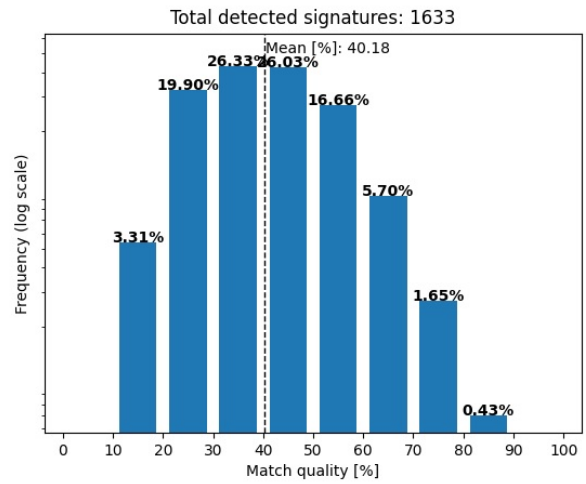
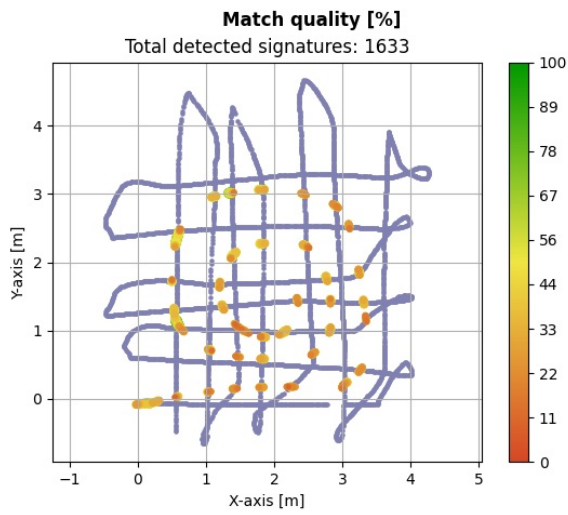
Test id	Test description	Measured value	Condition	Result
9B.2	position errors [m], max	12.2897	< 0.10	fail
9B.3	position errors [m], percentile < 0.05	99.9388	> 99.9	pass

Orientation corrections



Test id	Test description	Measured value	Condition	Result
9B.4	orientation errors [deg], max	86.76	< 20	fail
9B.5	orientation errors [deg], percentile < 10	99.9388	> 99.9	pass

Match quality



Test id	Test description	Measured value	Condition	Result
9B.6	match quality [%], min	10	> 20	fail

Input data

Base folder: /home/demy/Documents/ros2/triton_mapping_amcl_03-09-25/post_pgo/logs_08-09-2025/arams_user_logs

- logRuntimeTrackingFast.csv
- logLineFollowing.csv
- logDriftCorrections.csv
- logDiagnostics.csv
- logTimestamps.csv
- log_sensor_details.csv
- logExtRefInputFast.csv

Configuration

All configuration parameters are the same as the default