

Kafka test setup (kafkaDelay3Full)

Technology: Kafka Streams

Producer Delay (Send next message): 3ms

Full data set (qty): 8760

Processed values (qty): 8646

Number of tests performed: 10

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 0.0832

Kafka standard deviation

End Subtract Start: 0.021760853789575582

Lower Bound: 0.018738500393938054

UpperBound: 0.14930362313139156

Number of data in the std range: 8572

Number of data outside the std range: 74

Kafka interquartile range

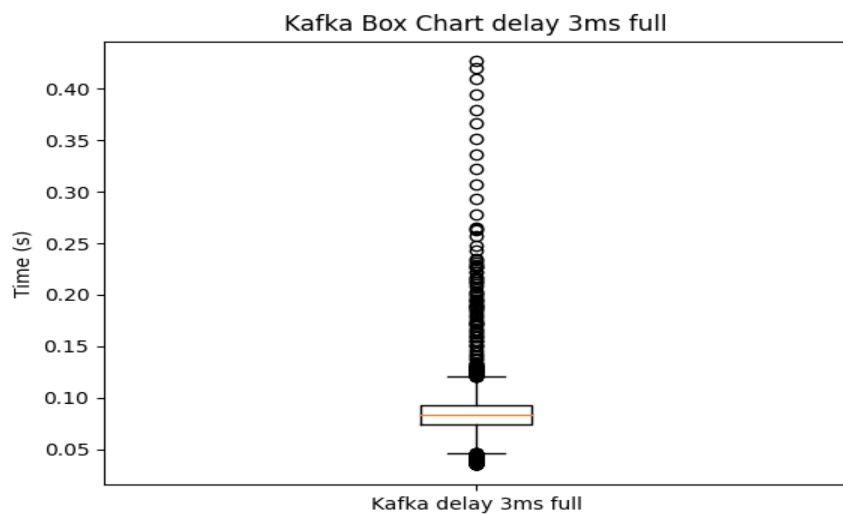
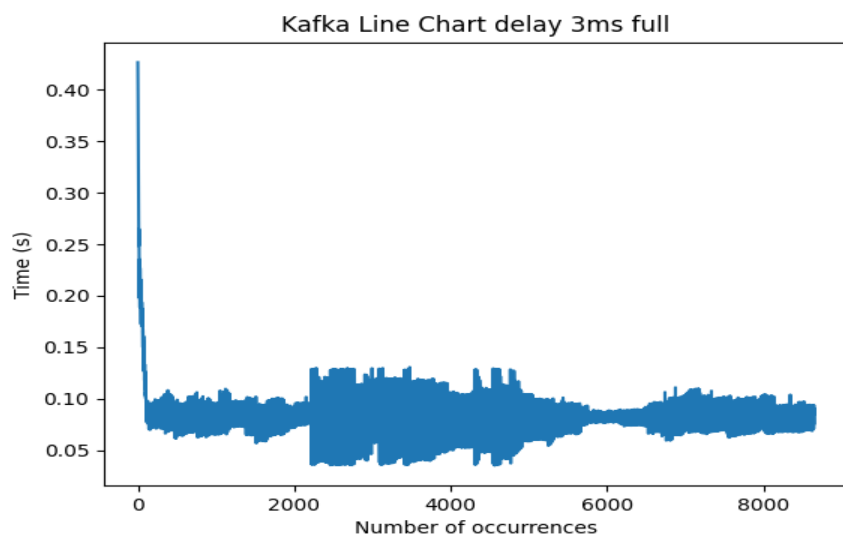
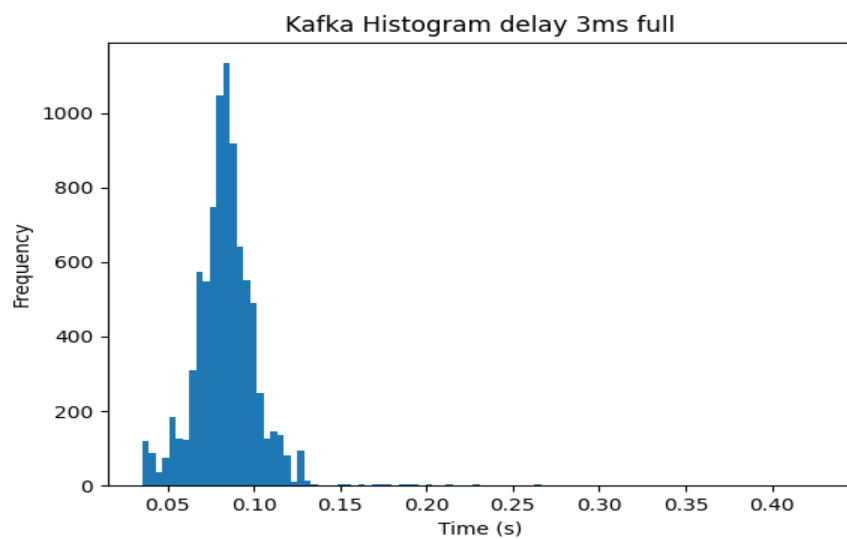
End Subtract Start: 0.018500000000000016

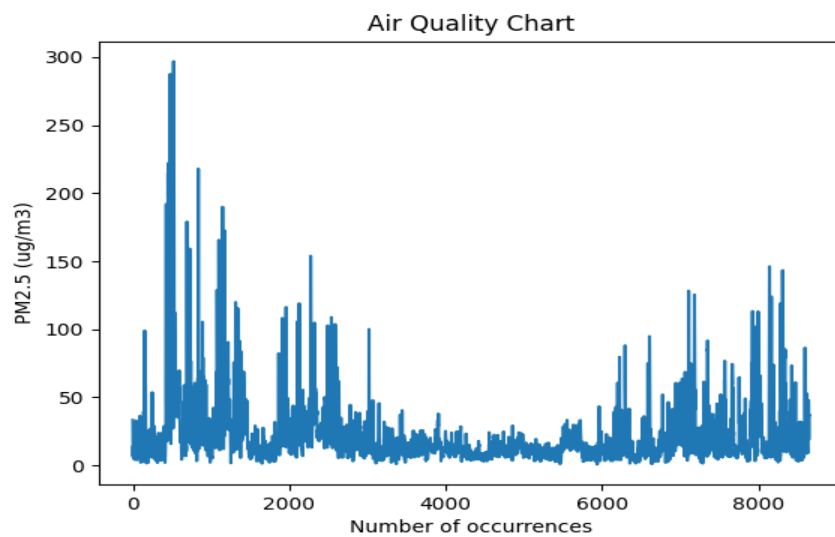
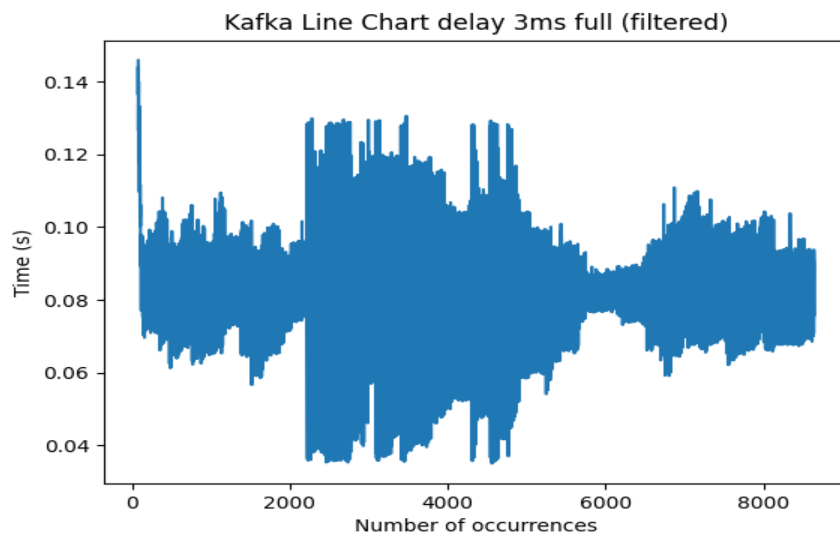
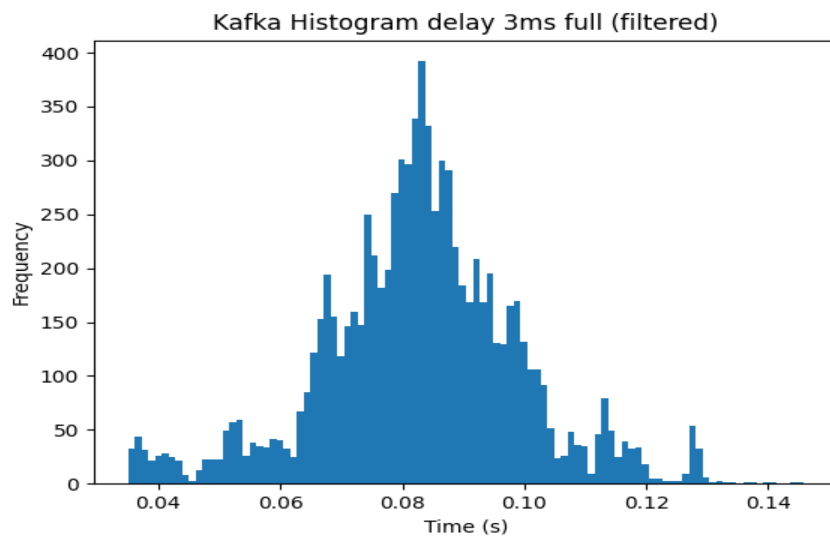
Kafka mean

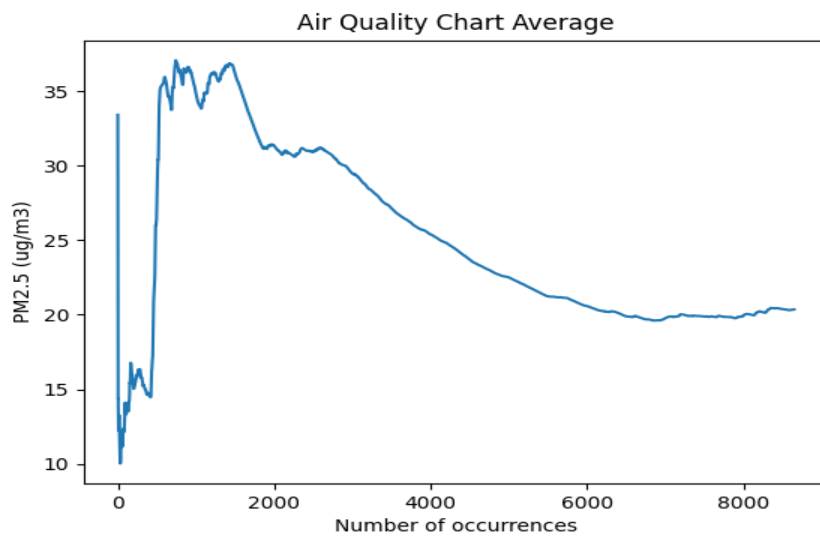
End Subtract Start: 0.0840210617626648

Average time for each sample

0.08287150127226464	0.08293453620171179	0.0830499653018737
0.08293789035392089	0.08286444598658341	0.08278799444829979
0.08312676382142031	0.08277307425399029	0.09387554938699978
0.08298889659958363		







Kafka test setup (kafkaDelay0Full)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Processed values (qty): 8646

Number of tests performed: 10

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 2.3702499999999995

Kafka standard deviation

End Subtract Start: 0.707040543892119

Lower Bound: 0.20162836832364261

Upper Bound: 4.443871631676357

Number of data in the std range: 8646

Number of data outside the std range: 0

Kafka interquartile range

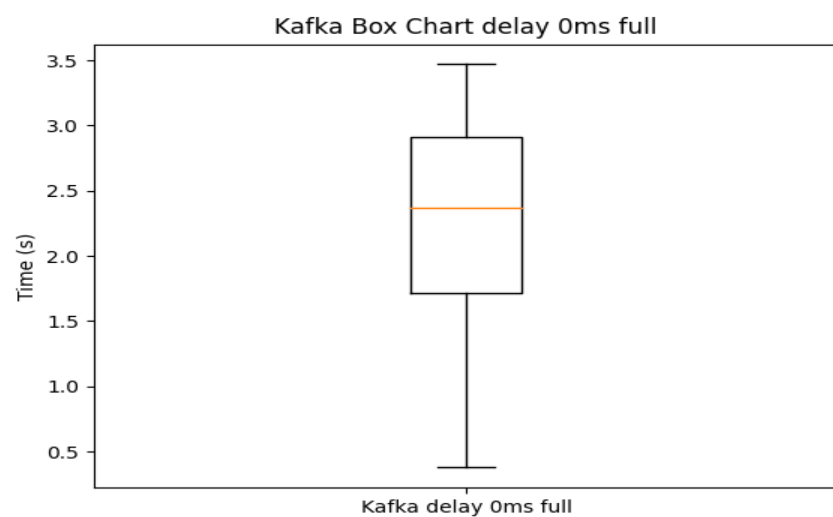
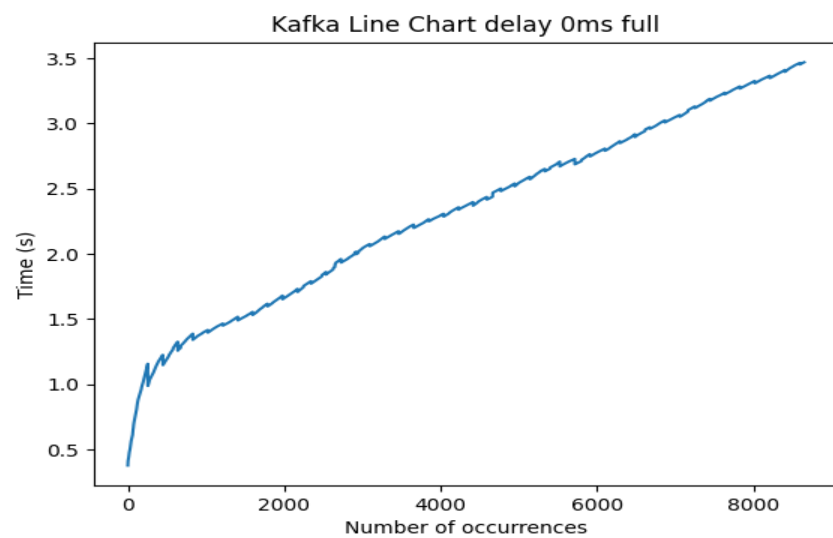
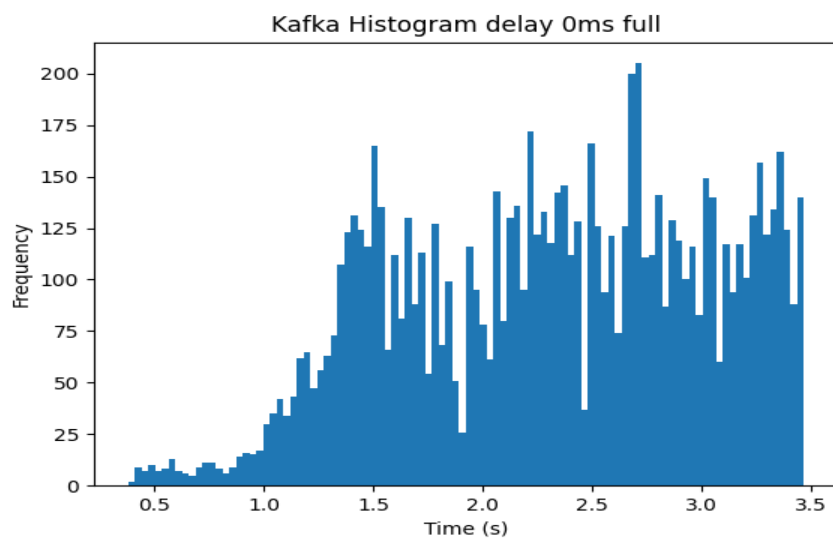
End Subtract Start: 1.1897

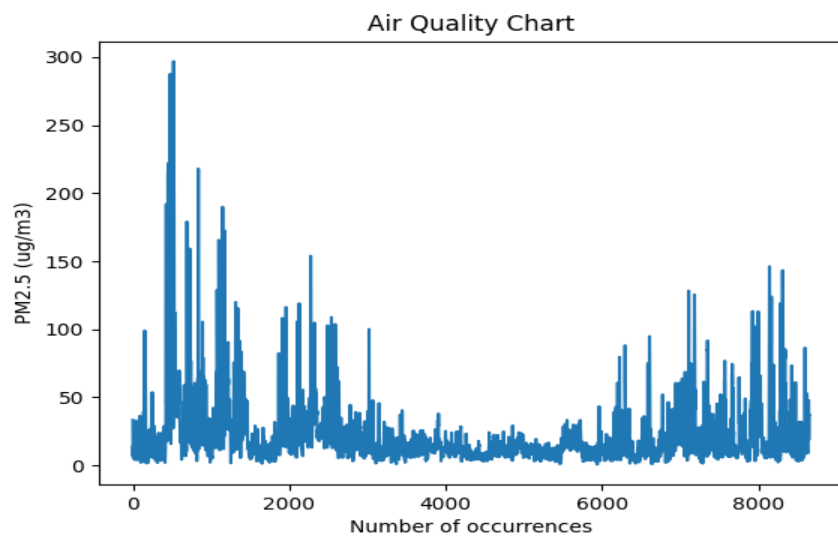
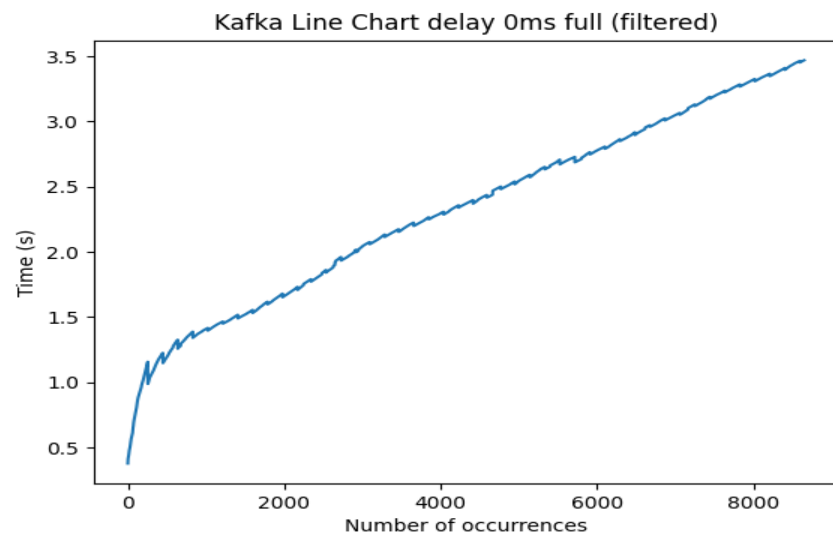
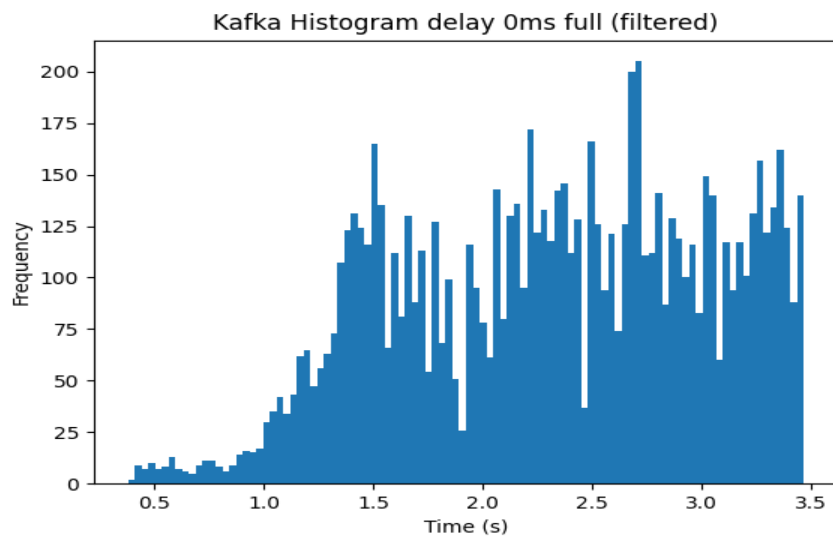
Kafka mean

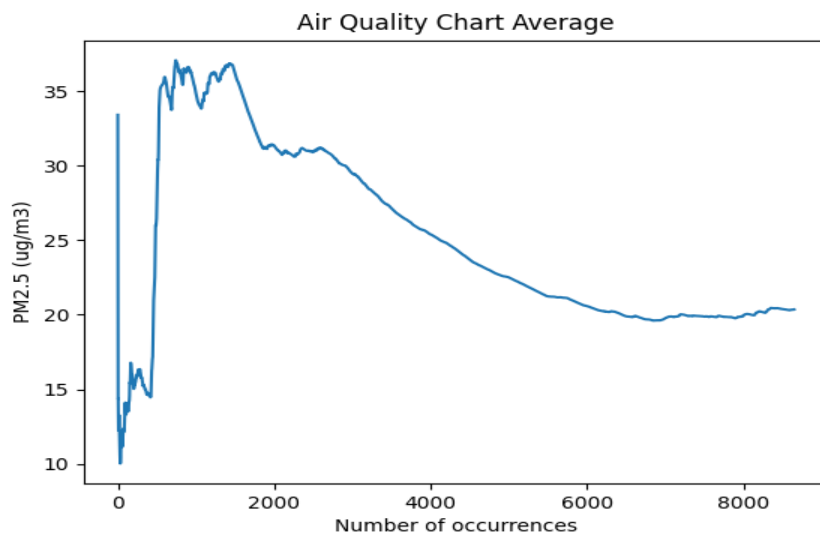
End Subtract Start: 2.3227499999999996

Average time for each sample

2.330861670136479 2.1058977561878325 2.1946205181586858
2.541644112884571 2.138341429562804 2.404750173490631
1.9151820495026604 1.9980927596576454 1.9348238491788112
3.66328568123988







Kafka test setup (kafkaDelay0Half)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 4380

Processed values (qty): 4313

Number of tests performed: 10

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 1.2137999999999998

Kafka standard deviation

End Subtract Start: 0.34823553050886674

Lower Bound: 0.2254720312417744

Upper Bound: 2.314885214294975

Number of data in the std range: 4313

Number of data outside the std range: 0

Kafka interquartile range

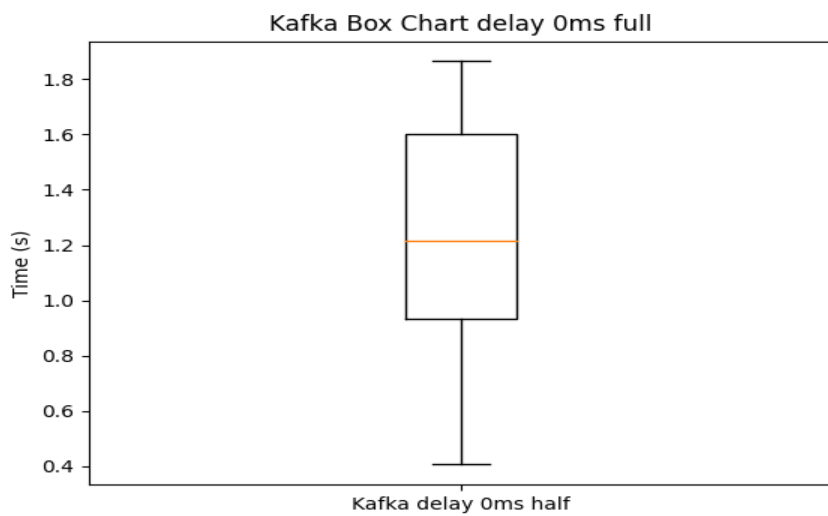
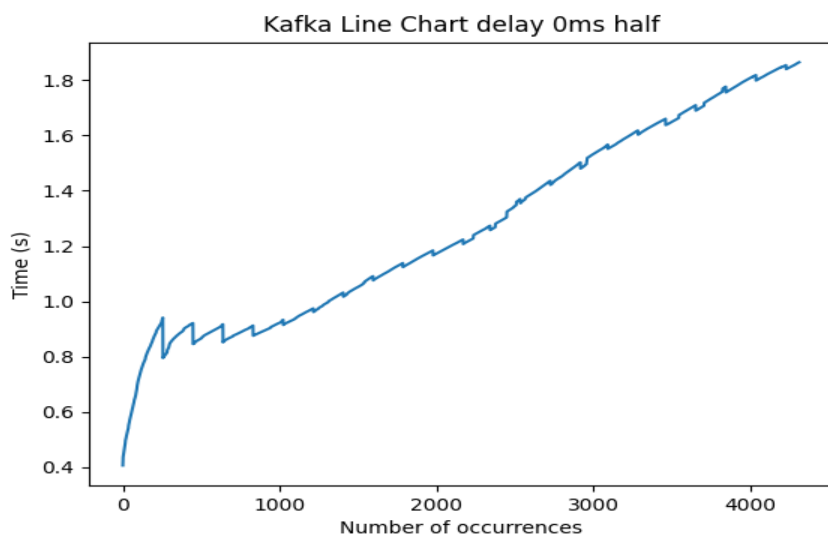
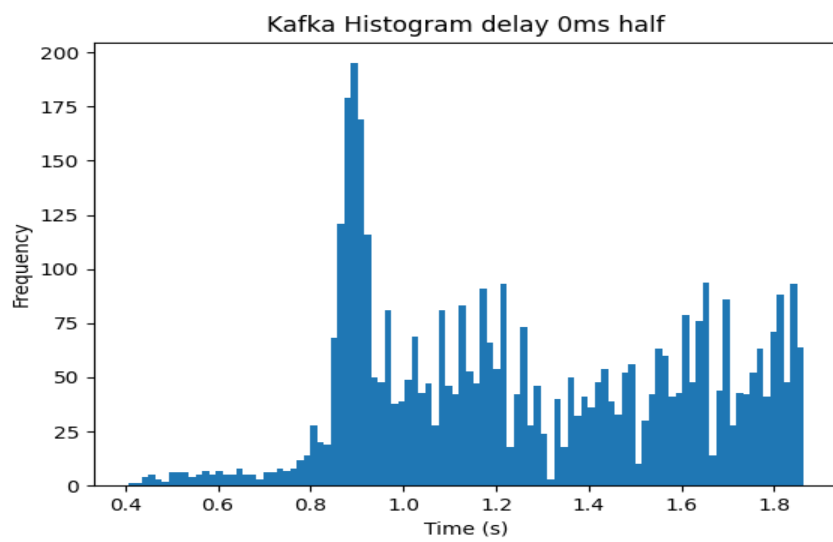
End Subtract Start: 0.6685000000000004

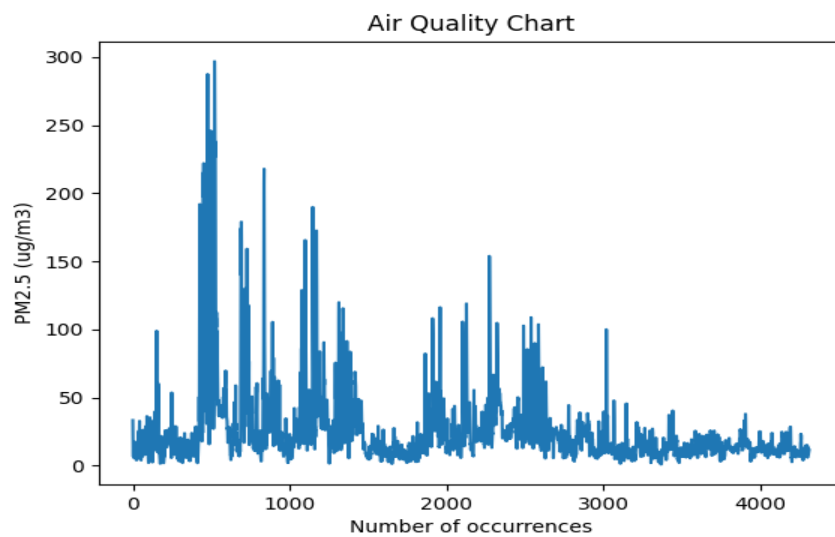
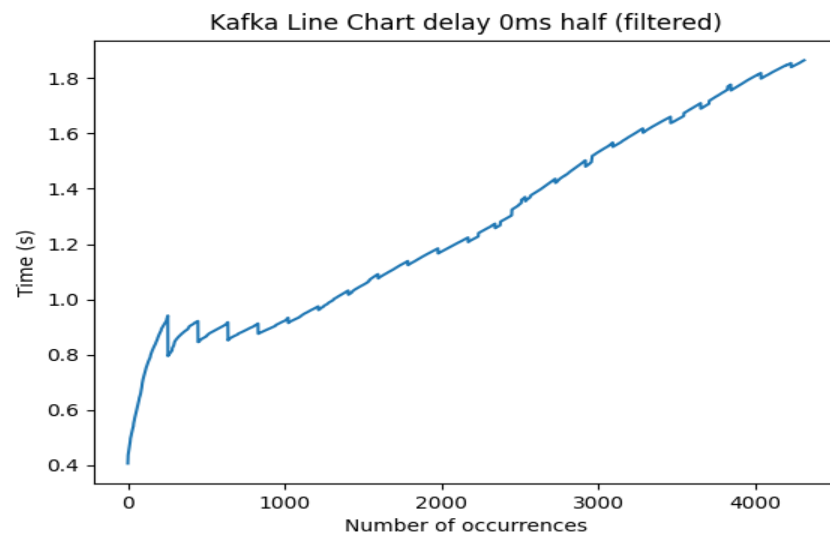
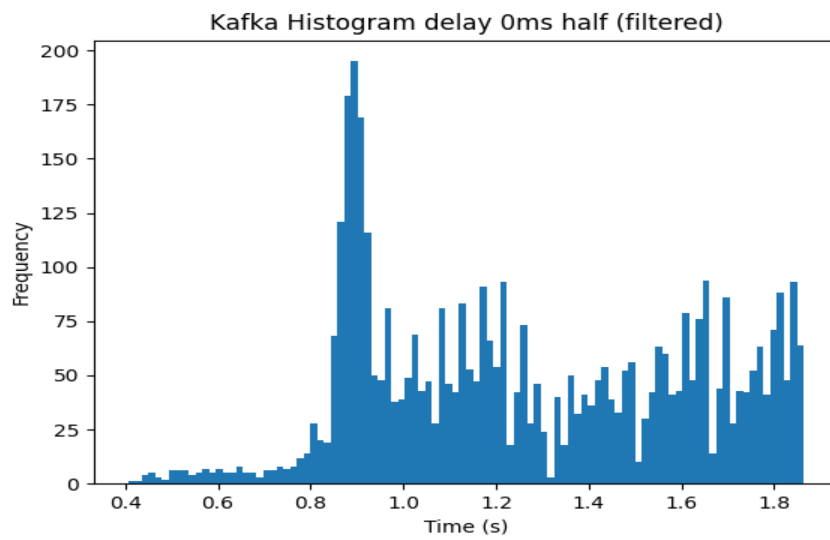
Kafka mean

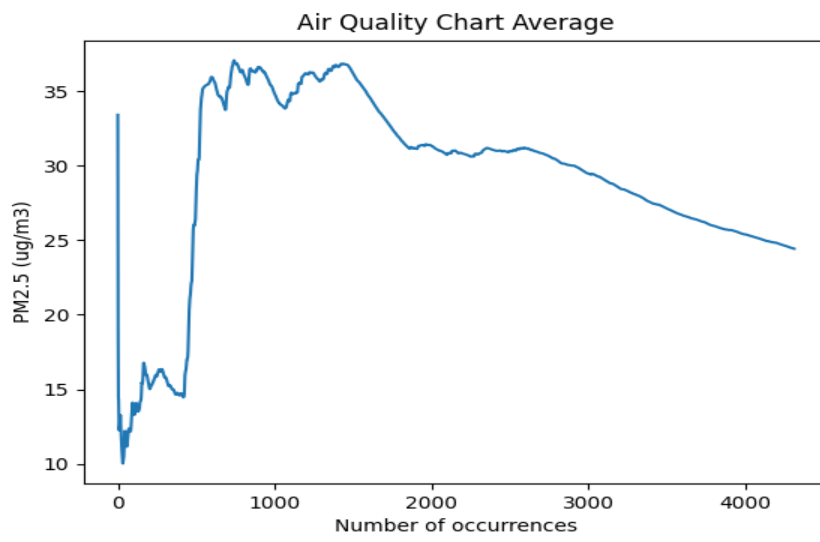
End Subtract Start: 1.2701786227683747

Average time for each sample

1.2580584280083467	1.3521256665893808	1.7231616044516578
1.2619944354277766	1.2017289589612798	1.1363315557616507
1.2504136332019475	1.2545379086482726	1.058966380709483
1.2044676559239507		







Spark test setup (sparkDelay3Full)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 3ms
Full data set (qty): 8760
Processed values (qty): 8646
Number of tests performed: 10
Start: Timestamp from Producer
End: Timestamp from Consumer
Unit: The results are given in seconds

Spark median values

End Subtract Start: 0.7938

Spark standard deviation

End Subtract Start: 0.779760236238106
Lower Bound: -1.3498301766763814
Upper Bound: 3.3287312407522545
Number of data in the std range: 8359
Number of data outside the std range: 287

Spark interquartile range

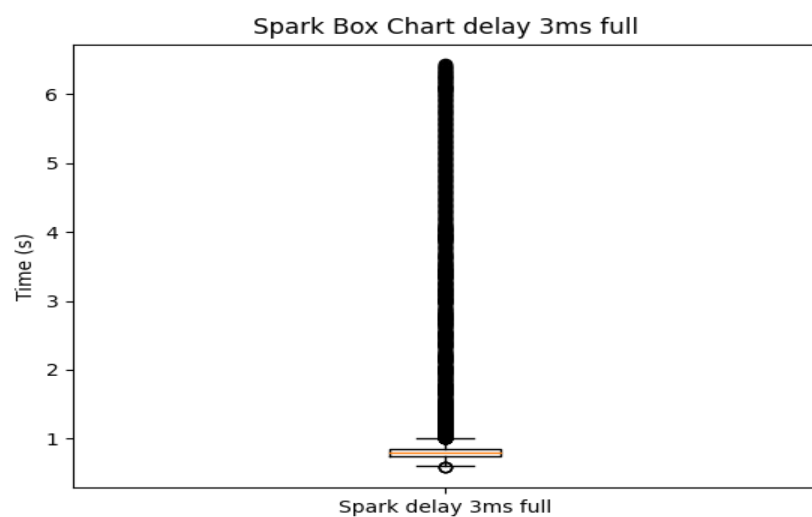
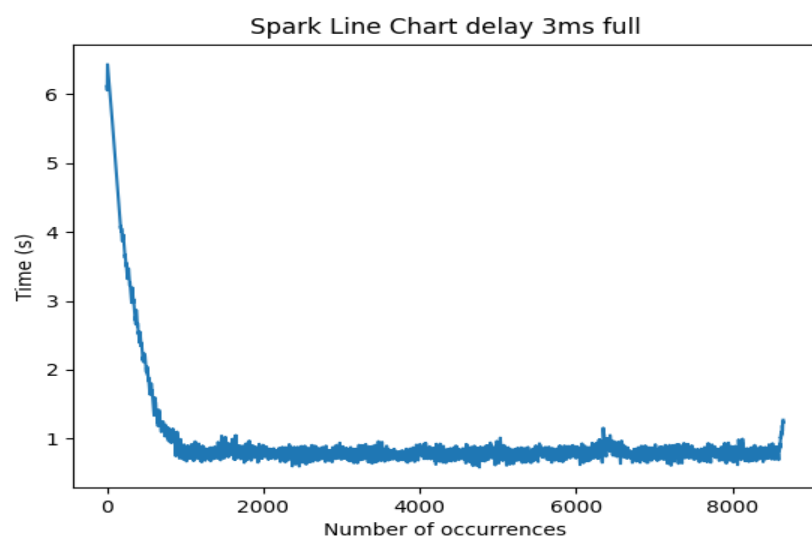
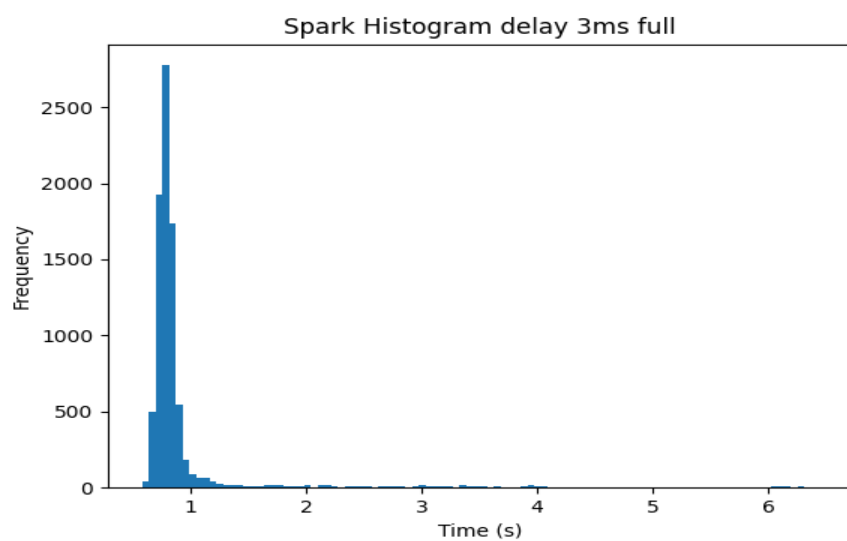
End Subtract Start: 0.10129999999999995

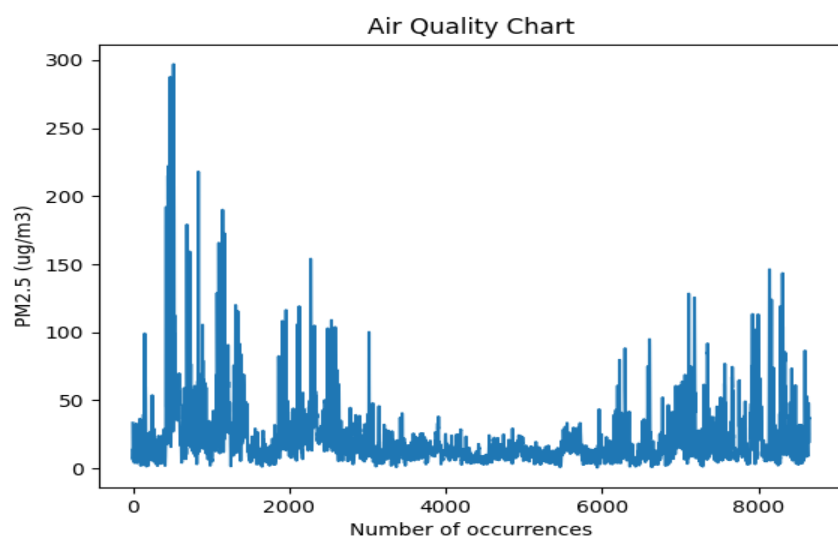
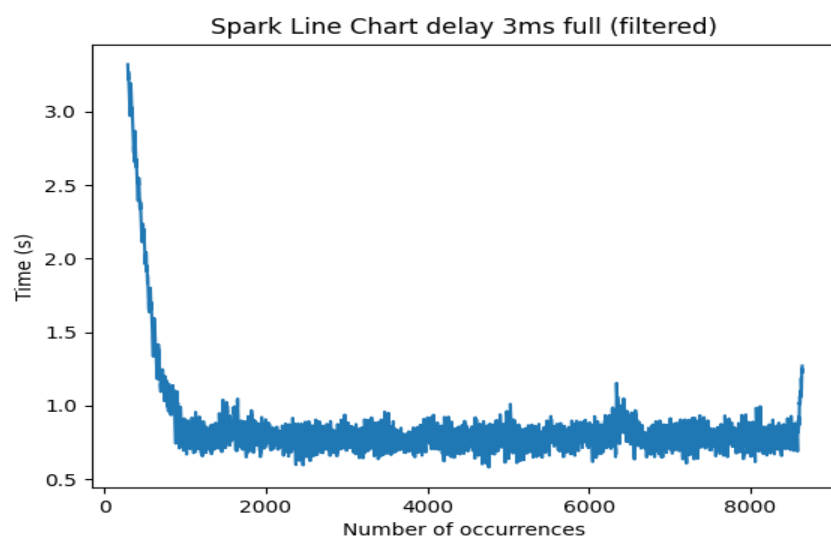
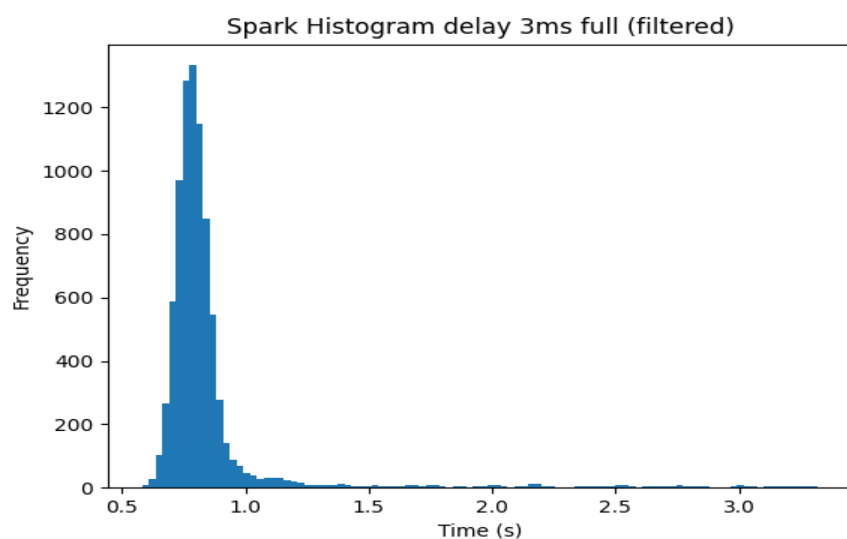
Spark mean

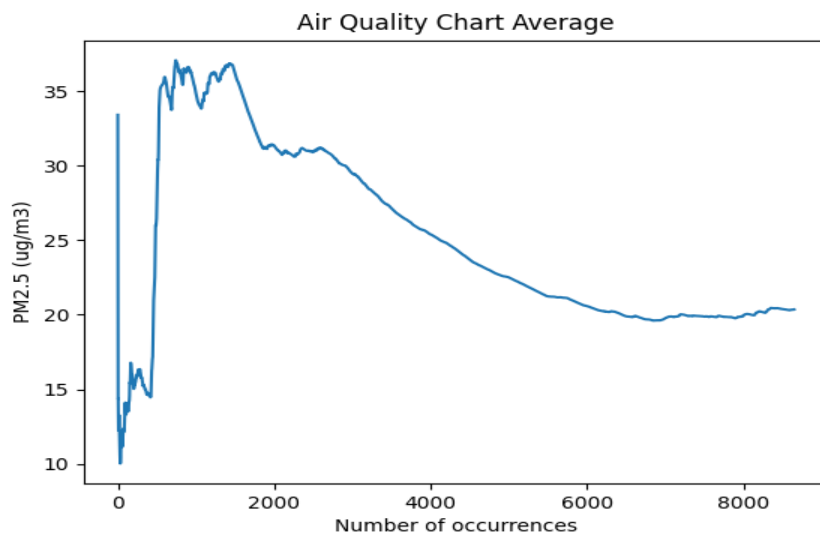
End Subtract Start: 0.9894505320379366

Average time for each sample

0.7956338191071016	0.8559990747166321	1.6076655100624564
0.8249144112884571	1.0192809391626185	1.1527426555632665
0.7994271339347675	0.8154614850798058	0.8450062456627342
1.1783740458015266		







Spark test setup (sparkDelay0Full)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 0ms
Full data set (qty): 8760
Processed values (qty): 8646
Number of tests performed: 10
Start: Timestamp from Producer
End: Timestamp from Consumer
Unit: The results are given in seconds

Spark median values

End Subtract Start: 7.2230000000000001

Spark standard deviation

End Subtract Start: 1.1054649482698062
Lower Bound: 3.74681407260904
Upper Bound: 10.379603762227877
Number of data in the std range: 8646
Number of data outside the std range: 0

Spark interquartile range

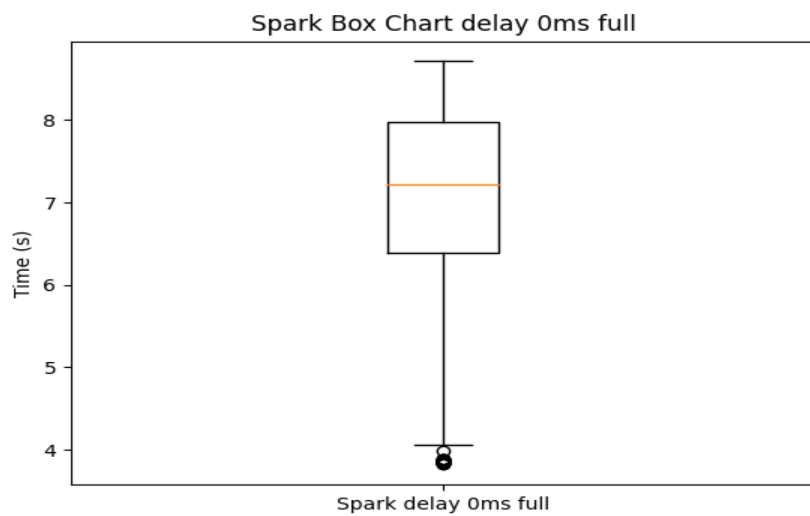
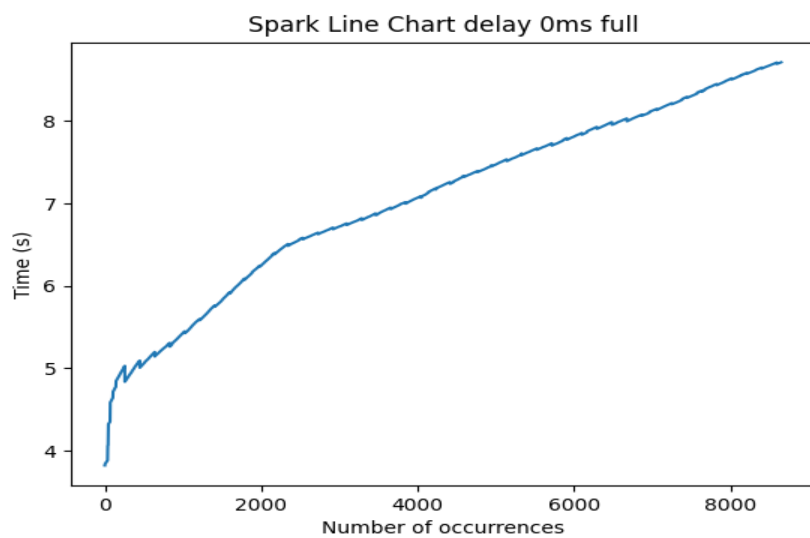
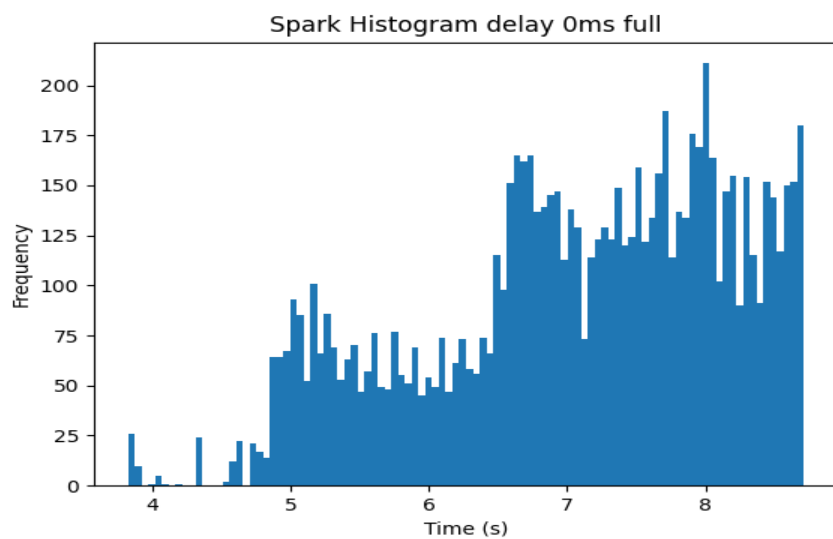
End Subtract Start: 1.58265000000000019

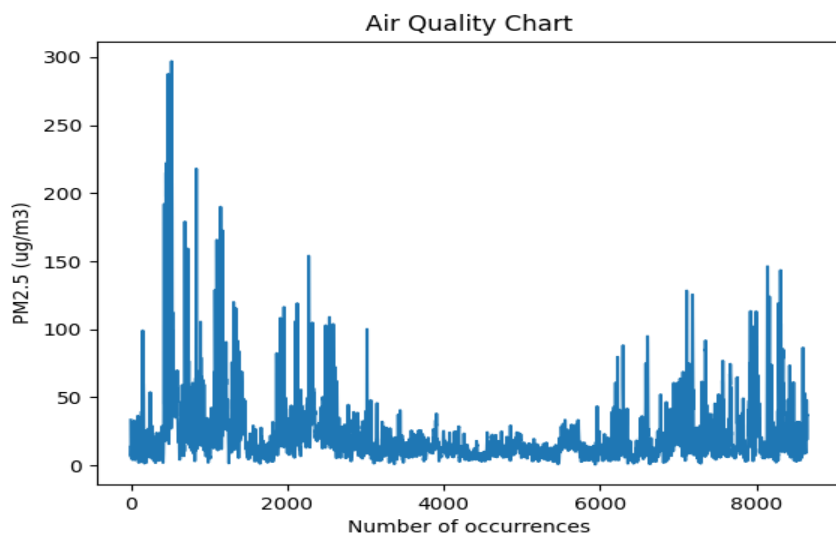
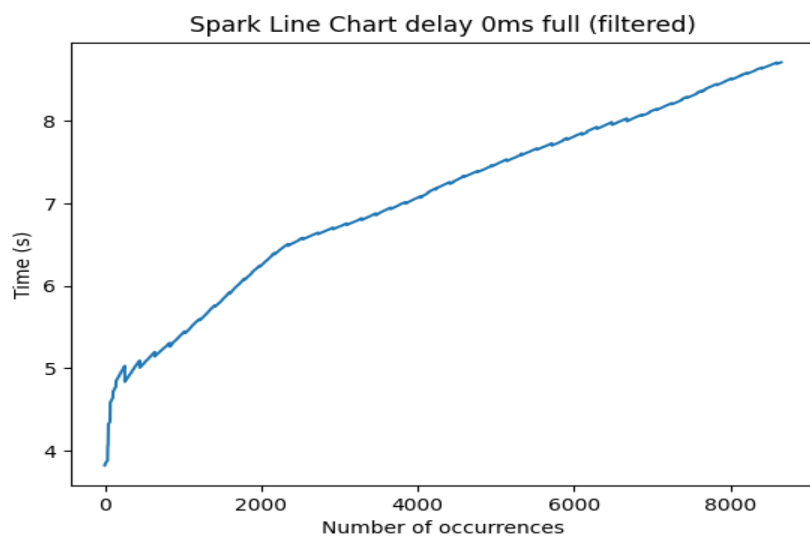
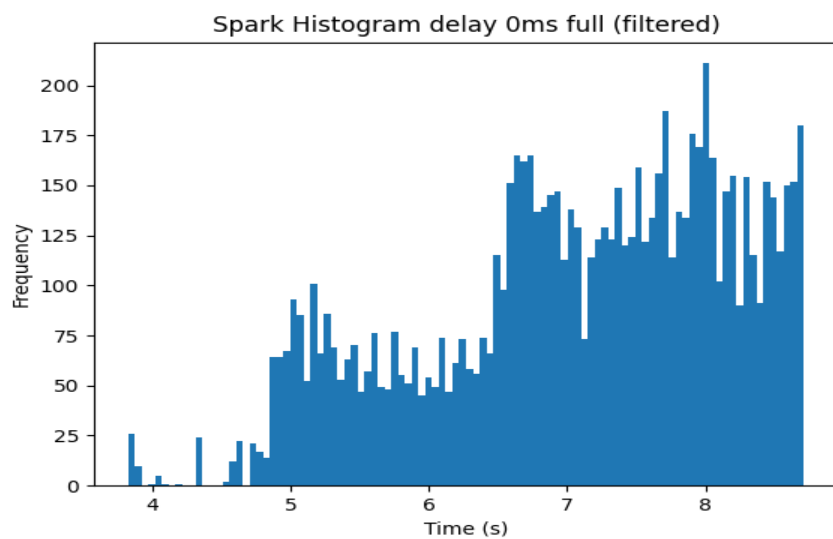
Spark mean

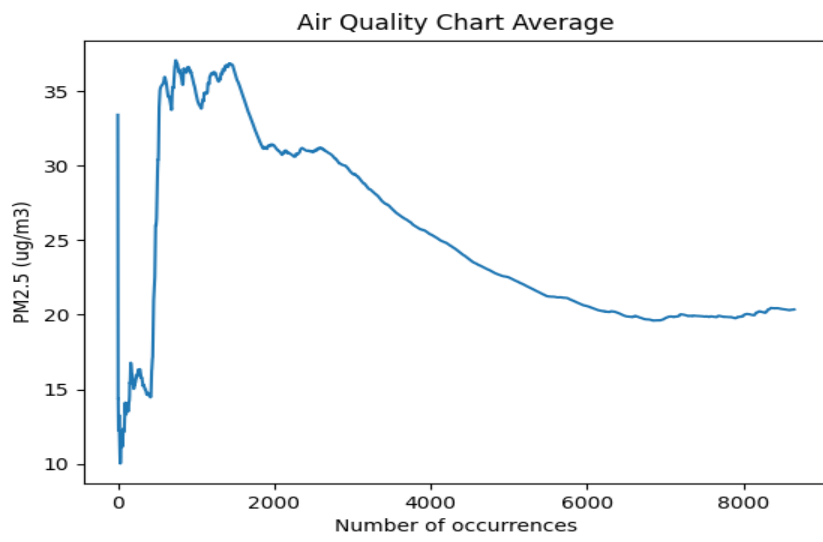
End Subtract Start: 7.063208917418459

Average time for each sample

6.780835530881332	7.325431066389081	7.013809622947027
6.384552856812399	6.368124913254684	6.437828822576914
8.984951191302335	6.469745778394634	8.582914179967615
6.28389521165857		







Spark test setup (sparkDelay0Half)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 0ms
Full data set (qty): 4380
Processed values (qty): 4313
Number of tests performed: 10
Start: Timestamp from Producer
End: Timestamp from Consumer
Unit: The results are given in seconds

Spark median values

End Subtract Start: 5.342100000000001

Spark standard deviation

End Subtract Start: 0.4949301958137683
Lower Bound: 3.8349907944274646
Upper Bound: 6.804571969310074
Number of data in the std range: 4273
Number of data outside the std range: 40

Spark interquartile range

End Subtract Start: 0.7206999999999999

Spark mean

End Subtract Start: 5.319781381868769

Average time for each sample

5.1304567586366785	4.296784140969163	6.672792719684674
5.220437282633897	6.8504817992116855	6.070767679109668
5.122185717597959	4.295475307210758	4.759088337584049
4.779344076049154		

