

Kafka test setup (kafkaDelay3Full)

Technology: Kafka Streams

Producer Delay (Send next message): 3ms

Full data set (qty): 8760

Number of tests performed: 15

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 0.084000000000000002

Kafka standard deviation

End Subtract Start: 0.3120367663977998

Lower Bound: -0.7805023692086202

UpperBound: 1.0917182291781786

Number of data in the std range: 8493

Number of data outside the std range: 267

Kafka interquartile range

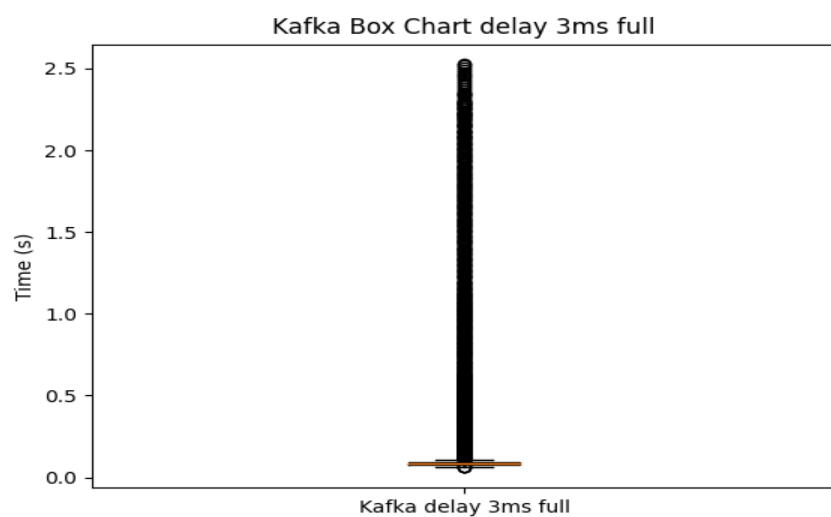
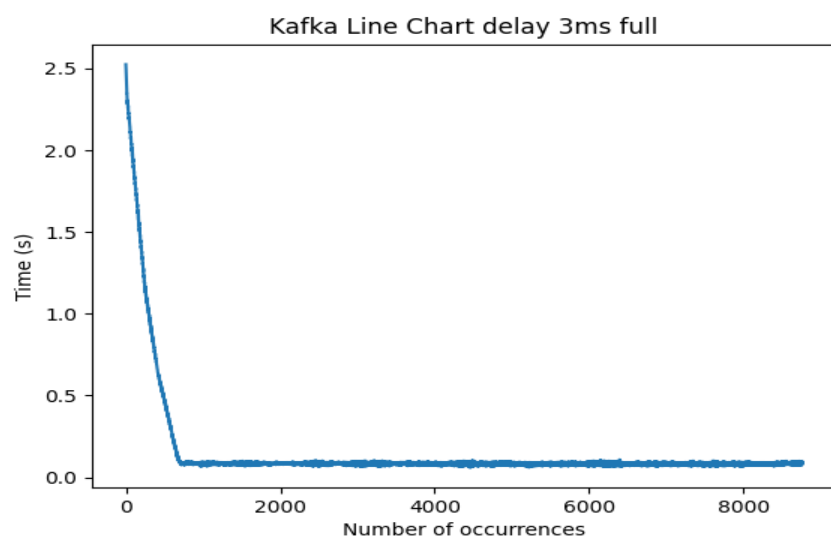
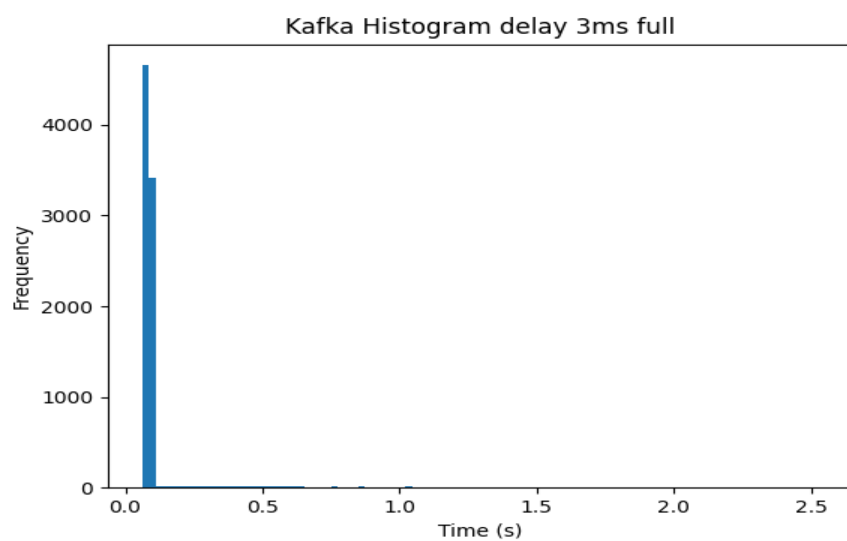
End Subtract Start: 0.011466666666666668

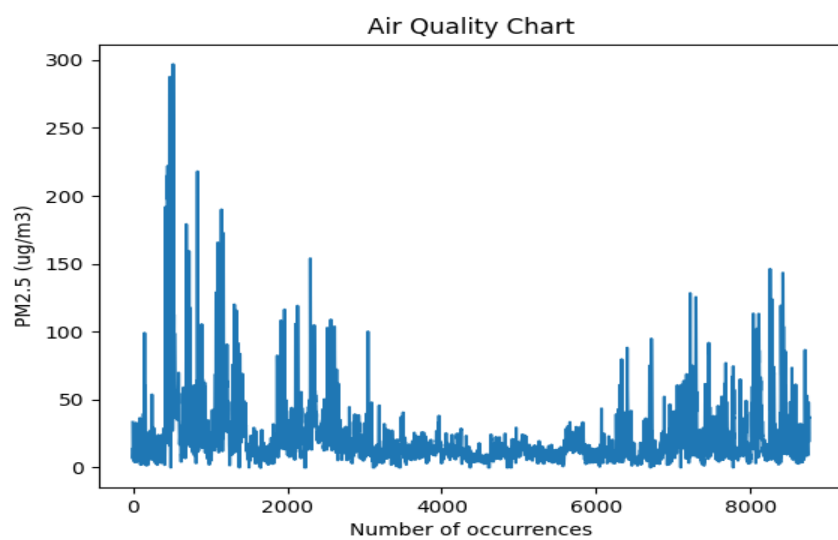
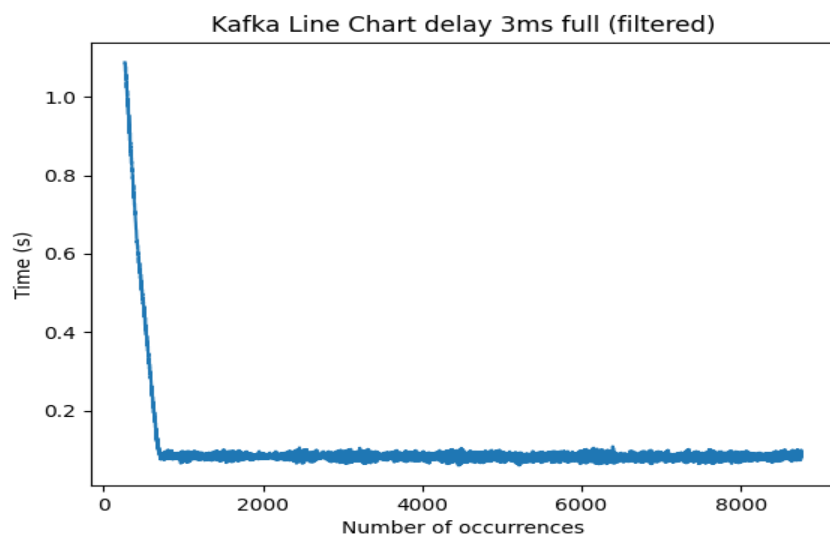
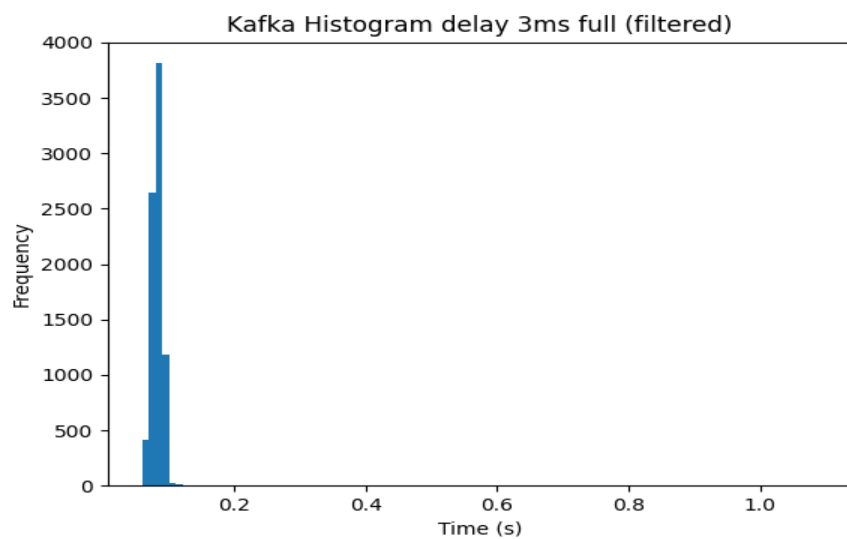
Kafka mean

End Subtract Start: 0.1556079299847793

Average time for each sample

0.08846518264840185	0.08297694063926941	0.0831502283105023
0.23180753424657535	0.1351904109589041	0.08303333333333335
0.4684143835616438	0.0831480593607306	0.5222555936073059
0.08296449771689499	0.08261598173515981	0.0829318493150685
0.08312694063926941	0.1411519406392694	0.08288607305936074





Kafka test setup (kafkaDelay0Full)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Number of tests performed: 15

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 4.0129666666666655

Kafka standard deviation

End Subtract Start: 0.6609073012422755

Lower Bound: 2.0105482180387746

Upper Bound: 5.9759920254924275

Number of data in the std range: 8760

Number of data outside the std range: 0

Kafka interquartile range

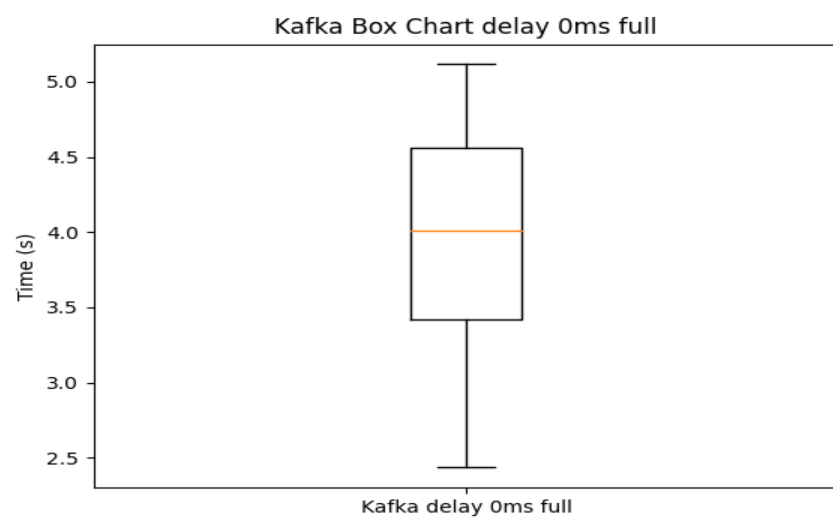
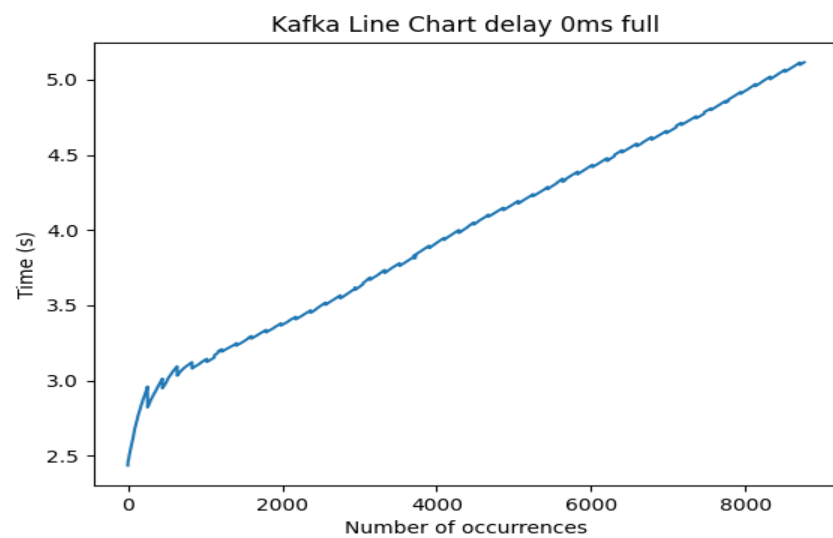
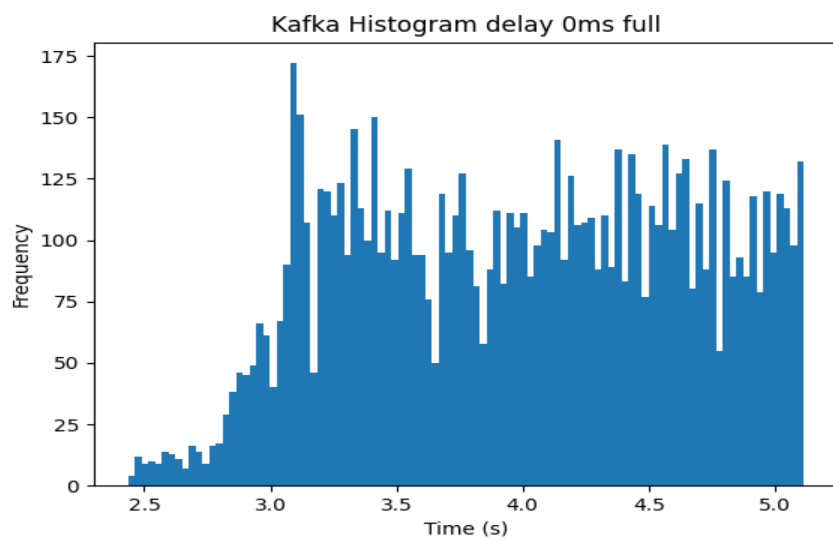
End Subtract Start: 1.1455666666666673

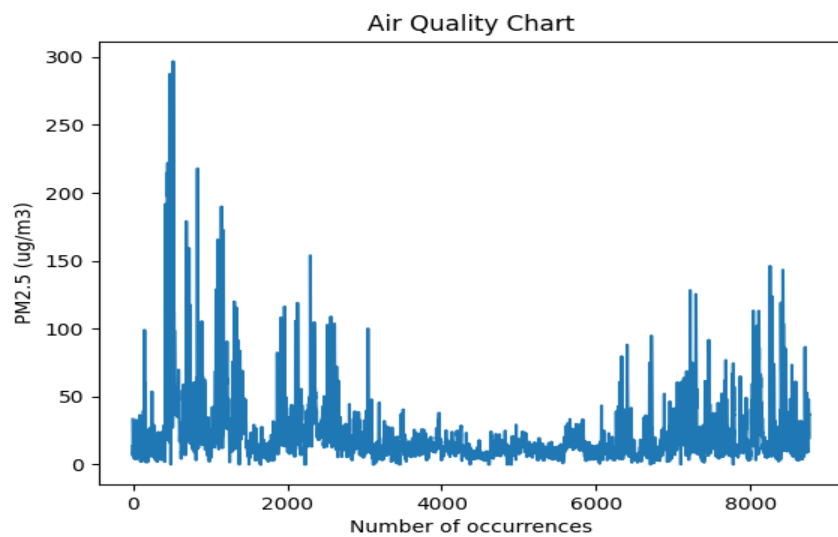
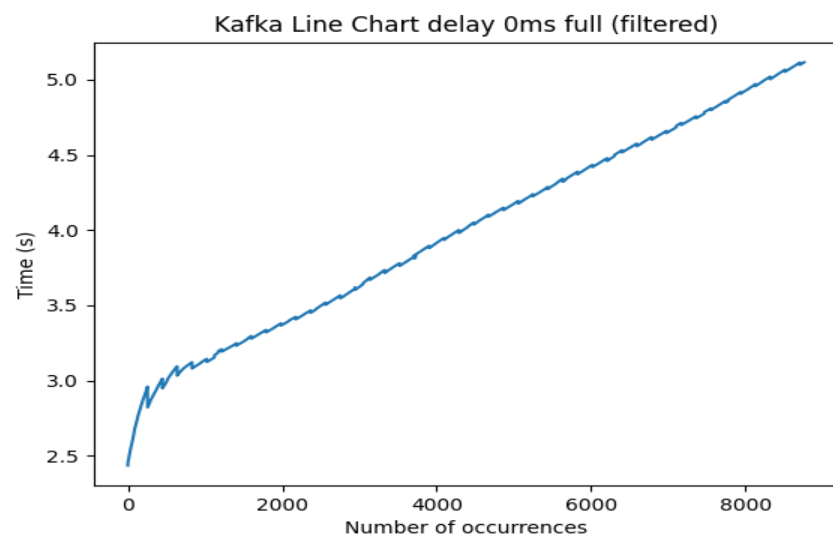
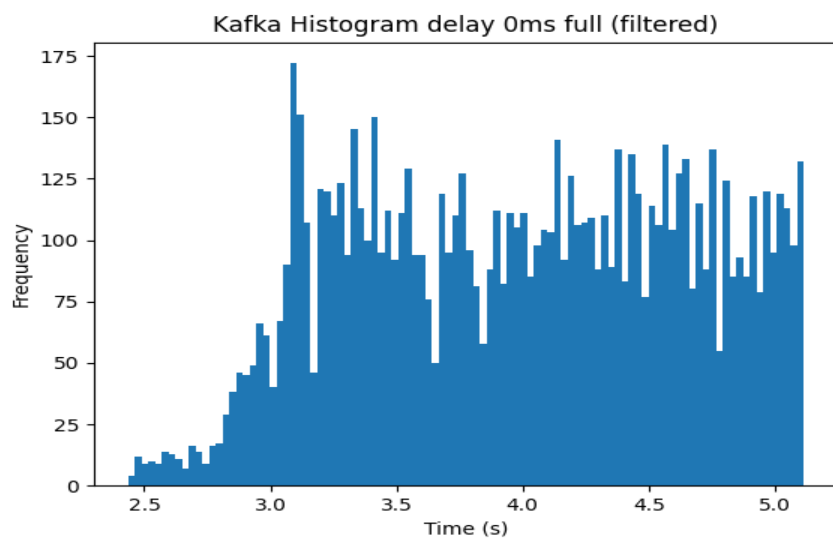
Kafka mean

End Subtract Start: 3.993270121765601

Average time for each sample

2.5296270547945205	1.9596102739726025	2.0990082191780823
3.2746164383561642	1.7555133561643836	2.646083105022831
3.370670319634703	2.1071792237442923	10.574156735159818
7.155085388127853	1.8247570776255706	1.8616700913242008
6.4979575342465745	10.542788698630137	1.700328310502283





Kafka test setup (kafkaDelay0Half)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 4380

Number of tests performed: 15

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 5.5758

Kafka standard deviation

End Subtract Start: 0.3518387509097571

Lower Bound: 4.592162012110912

Upper Bound: 6.703194517569455

Number of data in the std range: 4380

Number of data outside the std range: 0

Kafka interquartile range

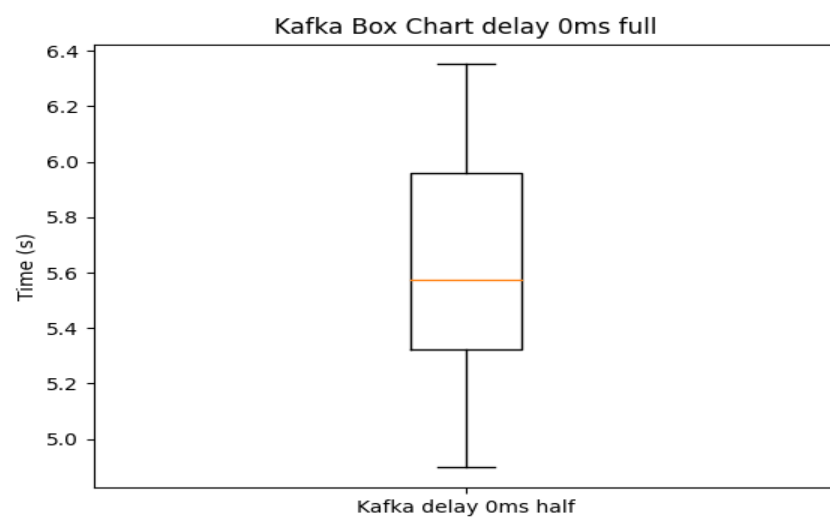
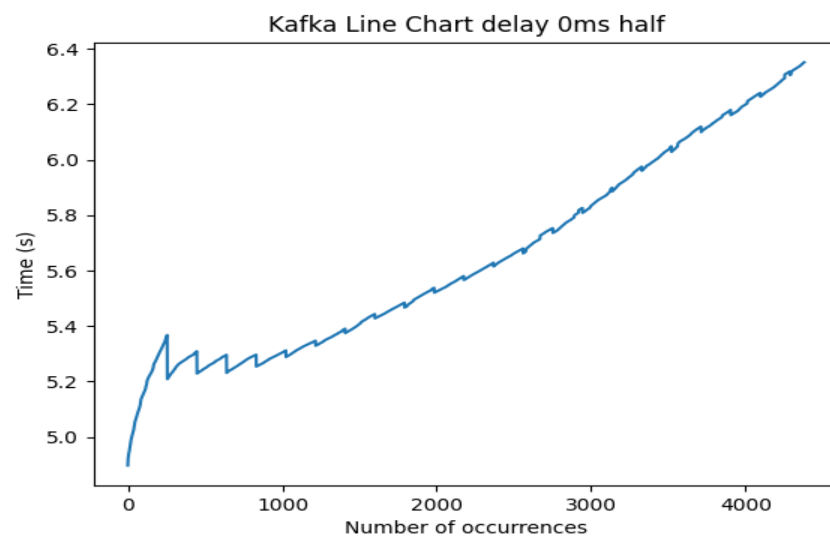
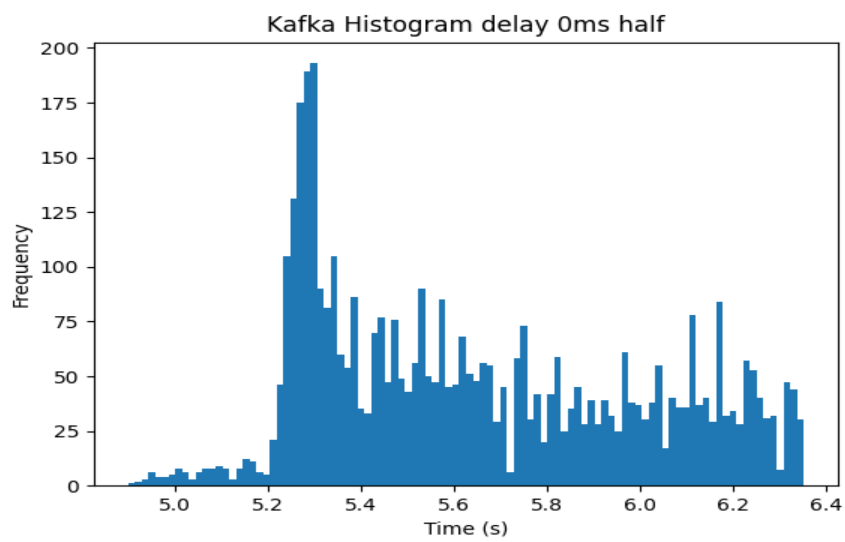
End Subtract Start: 0.6339833333333313

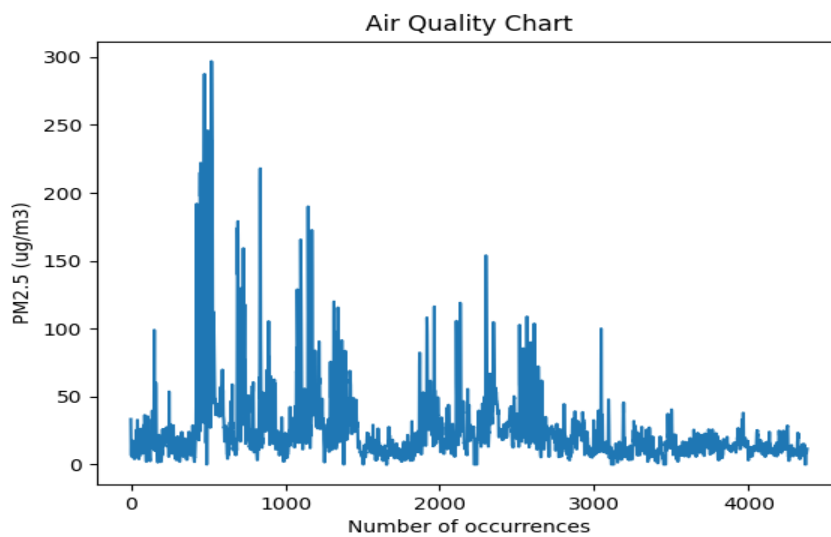
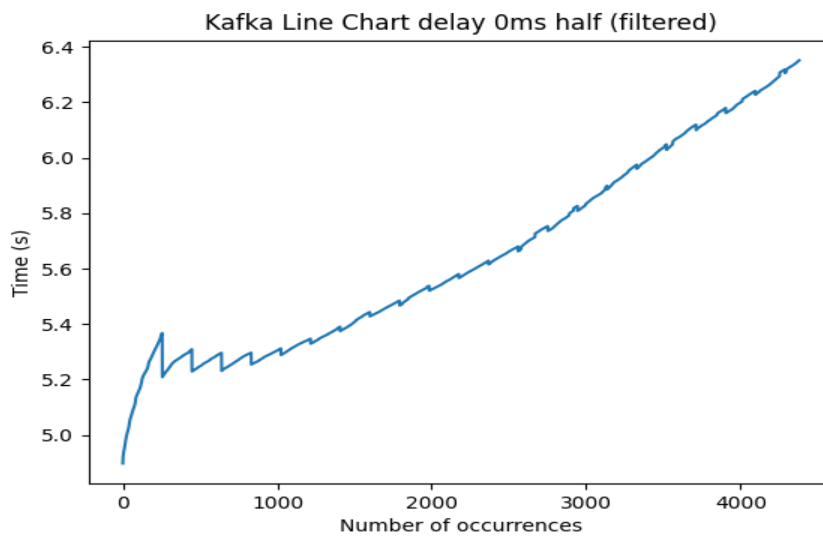
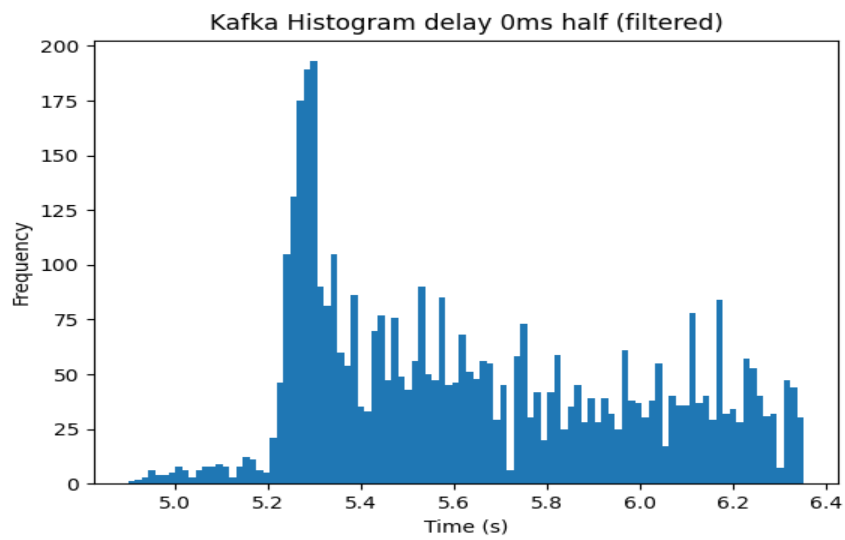
Kafka mean

End Subtract Start: 5.6476782648401835

Average time for each sample

2.8113625570776257	1.148457077625571	1.1442707762557078
15.065976940639267	7.243599543378996	1.085281506849315
1.012836301369863	1.257685388127854	3.074339041095891
1.0819662100456622	1.3277712328767124	14.195901826484018
14.042808447488586	8.304279908675799	11.918637214611872





Spark test setup (sparkDelay3Full)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 3ms
Full data set (qty): 8760
Number of tests performed: 15
Start: Timestamp from Producer
End: Timestamp from Consumer
Unit: The results are given in seconds

Spark median values

End Subtract Start: 0.7390333333333333

Spark standard deviation

End Subtract Start: 0.28164745535090235
Lower Bound: -0.060463956615873116
Upper Bound: 1.6294207754895411
Number of data in the std range: 8600
Number of data outside the std range: 160

Spark interquartile range

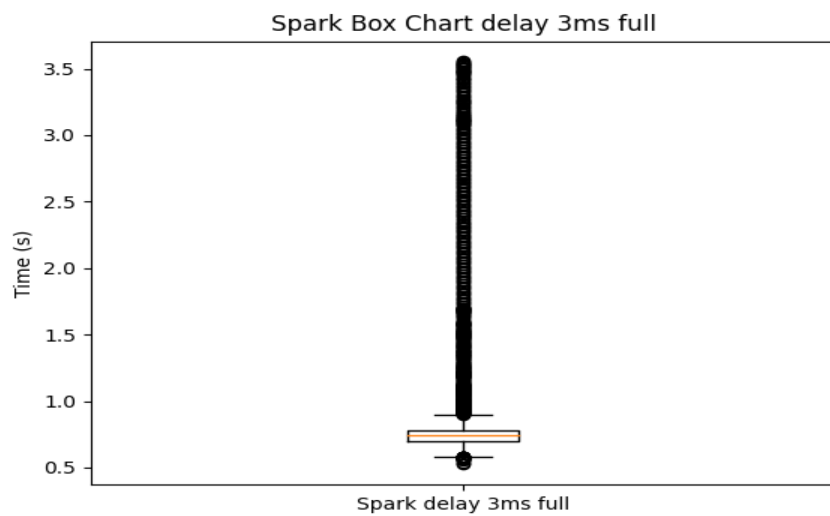
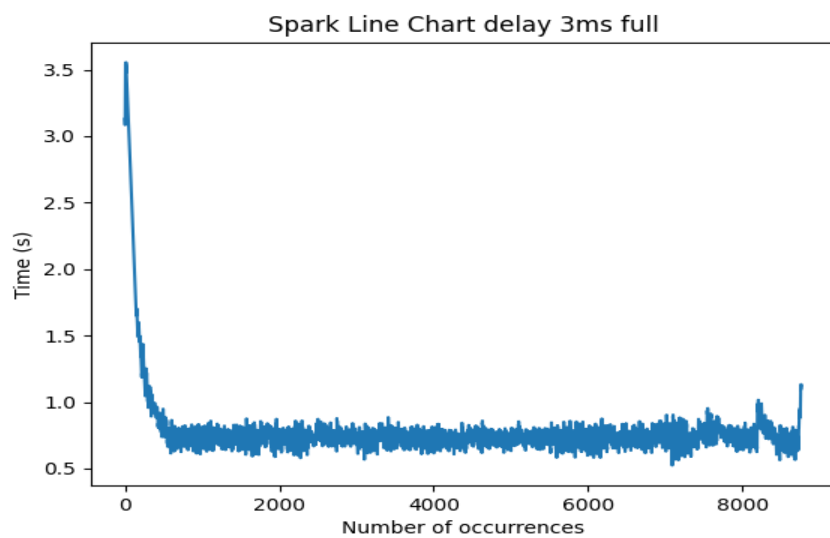
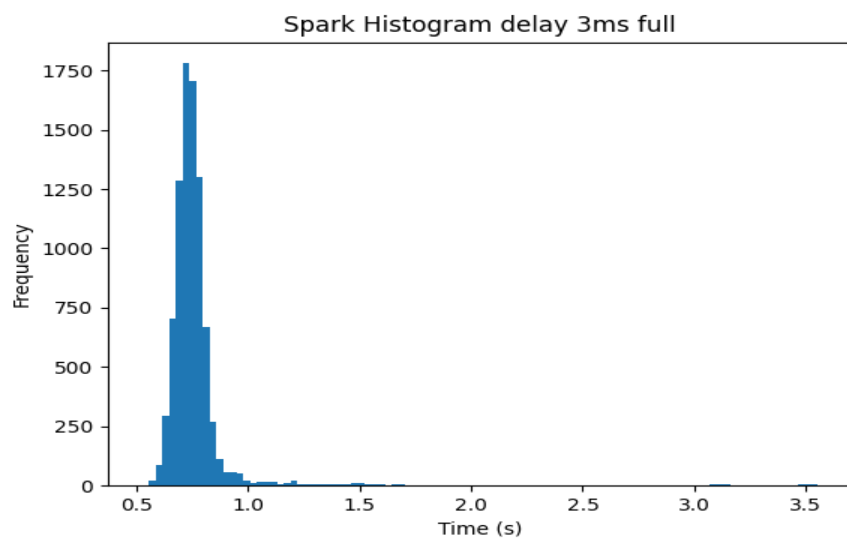
End Subtract Start: 0.07981666666666676

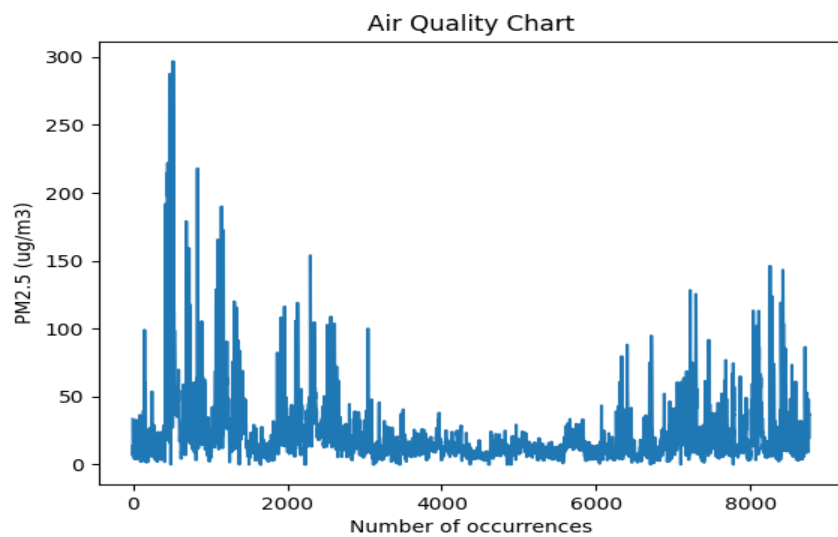
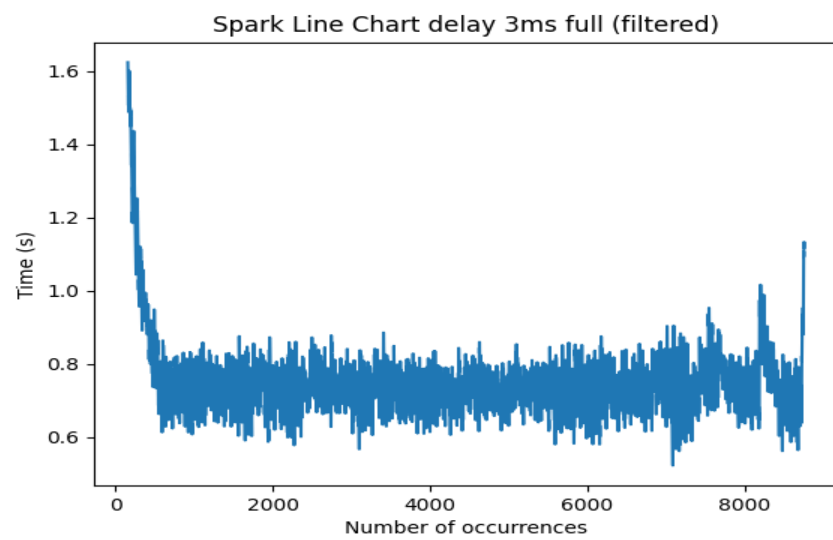
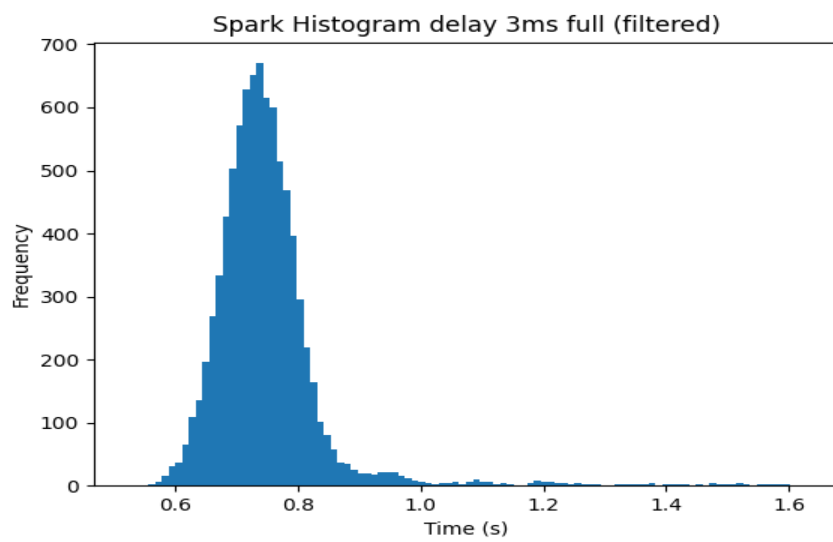
Spark mean

End Subtract Start: 0.784478409436834

Average time for each sample

1.555434589041096	0.7010439497716896	0.7204858447488585
0.7087466894977169	0.6877687214611873	0.7220965753424656
0.7223592465753425	0.7522775114155251	0.9587325342465752
0.7263180365296804	0.6809957762557077	0.7075905251141552
0.7141146118721461	0.6967585616438356	0.7124529680365297





Spark test setup (sparkDelay0Full)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 0ms
Full data set (qty): 8760
Number of tests performed: 15
Start: Timestamp from Producer
End: Timestamp from Consumer
Unit: The results are given in seconds

Spark median values

End Subtract Start: 5.204633333333333

Spark standard deviation

End Subtract Start: 0.7962367550858551
Lower Bound: 2.7820050619874865
Upper Bound: 7.559425592502617
Number of data in the std range: 8760
Number of data outside the std range: 0

Spark interquartile range

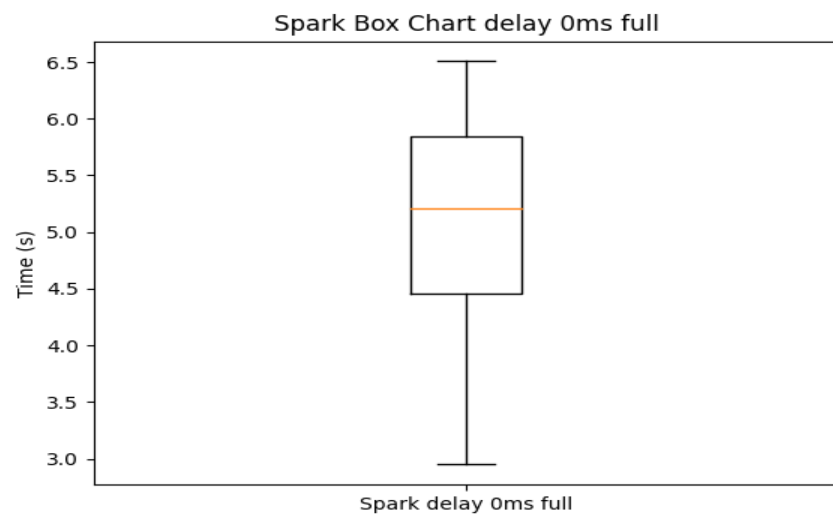
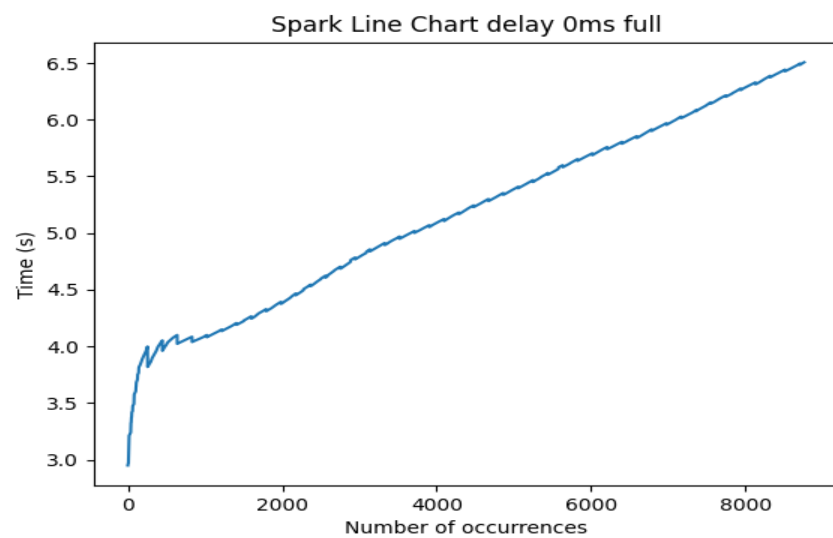
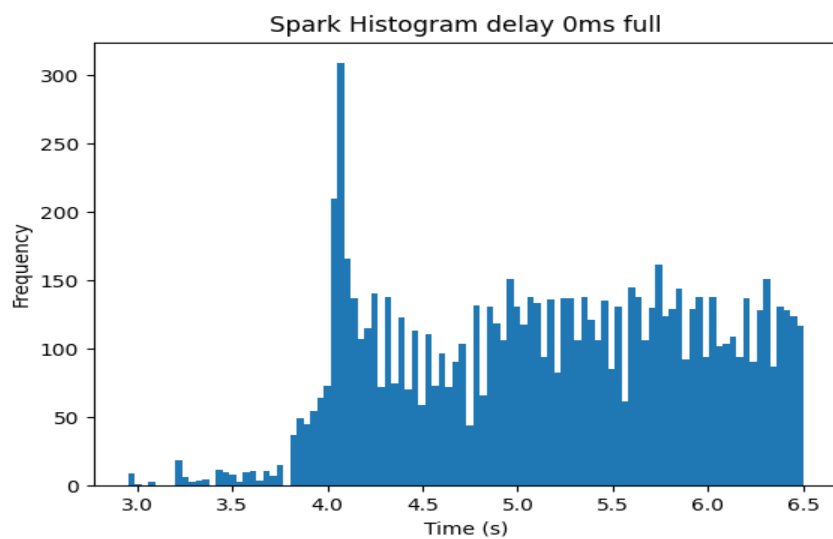
End Subtract Start: 1.3811499999999999

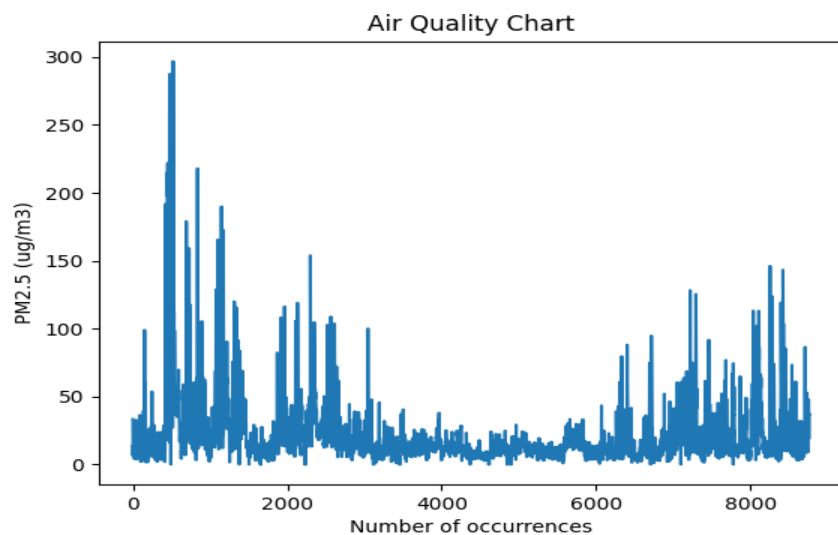
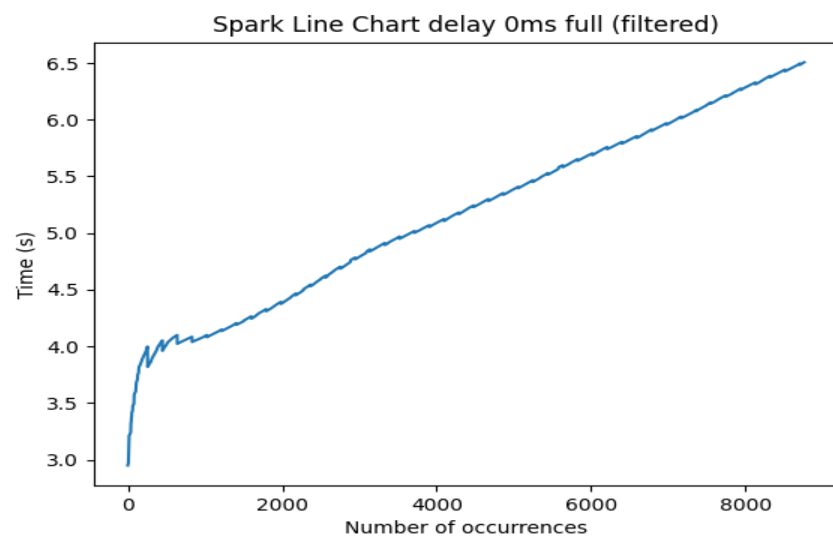
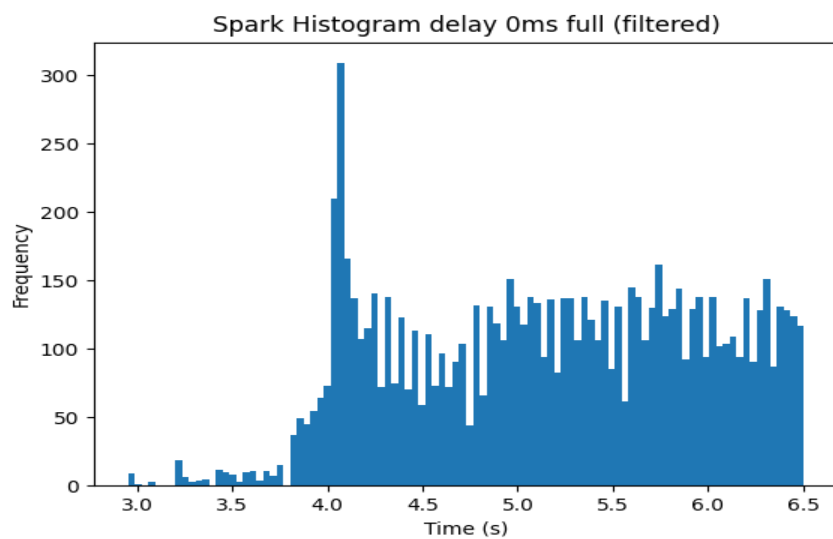
Spark mean

End Subtract Start: 5.170715327245052

Average time for each sample

10.360887557077625	4.505659589041097	4.92744189497717
5.237693721461187	4.7533018264840186	5.167374429223745
4.451766324200913	4.443907876712328	4.8554695205479455
5.402025570776256	4.891214269406392	4.972946803652968
4.6264956621004565	4.186649429223745	4.777895433789954





Spark test setup (sparkDelay0Half)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 0ms
Full data set (qty): 4380
Number of tests performed: 15
Start: Timestamp from Producer
End: Timestamp from Consumer
Unit: The results are given in seconds

Spark median values

End Subtract Start: 5.013833333333333

Spark standard deviation

End Subtract Start: 0.41598221486393583
Lower Bound: 3.7944686522118465
Upper Bound: 6.290361941395461
Number of data in the std range: 4380
Number of data outside the std range: 0

Spark interquartile range

End Subtract Start: 0.7380499999999994

Spark mean

End Subtract Start: 5.042415296803654

Average time for each sample

8.790803196347033	3.7517568493150684	4.1874315068493155
3.809788812785388	3.9458321917808226	3.665502739726028
3.558179452054795	3.8772066210045666	4.1042659817351606
5.860282876712329	3.8050755707762556	4.140412785388128
3.864870547945206	4.2244534246575345	14.05036689497717

