

Kafka test setup (kafkaDelay3Full)

Technology: Kafka Streams

Producer Delay (Send next message): 3ms

Full data set (qty): 8760

Processed values (qty): 1945

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: 0.09999999999999999

Kafka standard deviation

End Subtract Start: 0.10287394743004508

Lower Bound: -0.1939344386911635

UpperBound: 0.42330924588910696

Number of data in the std range: 1882

Number of data outside the std range: 63

Kafka interquartile range

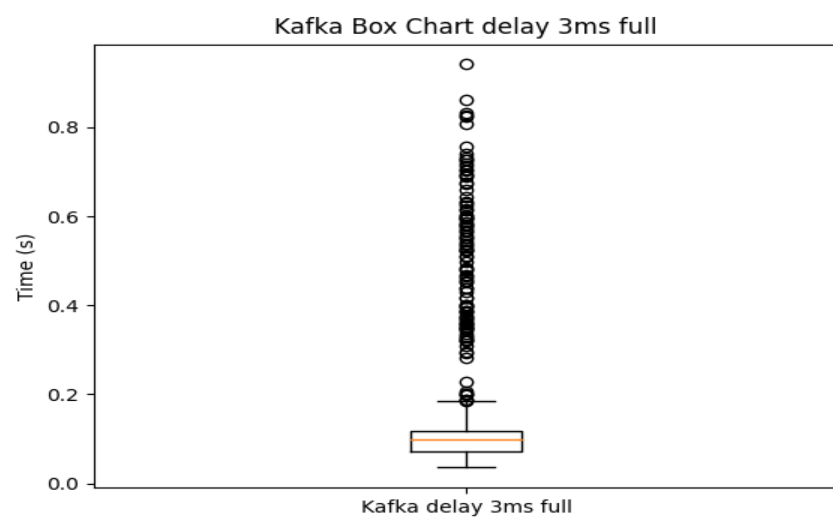
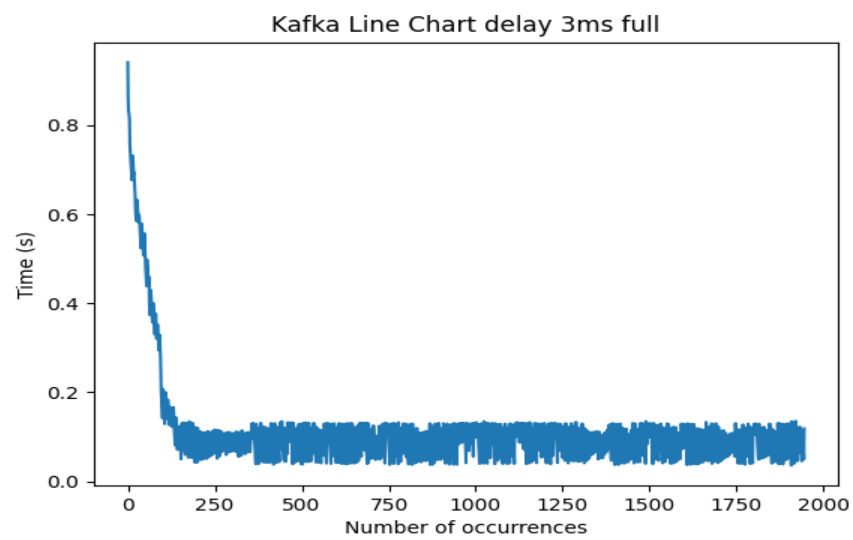
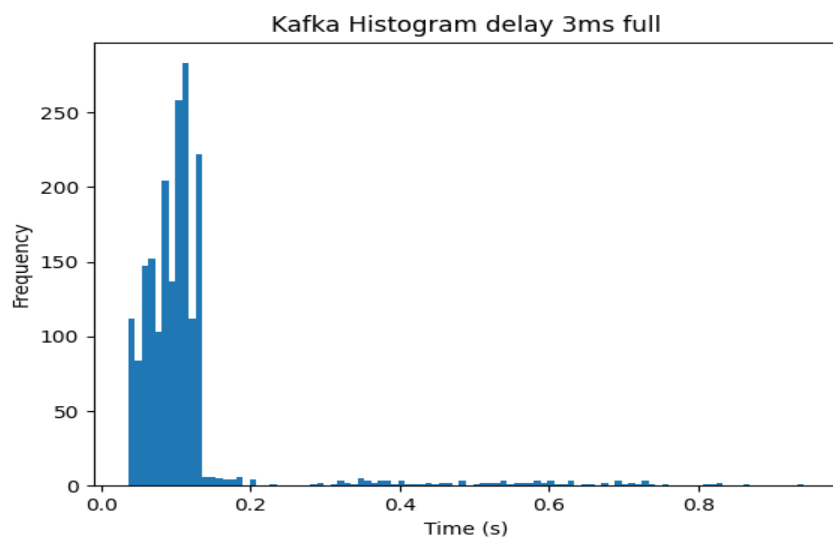
End Subtract Start: 0.04509999999999997

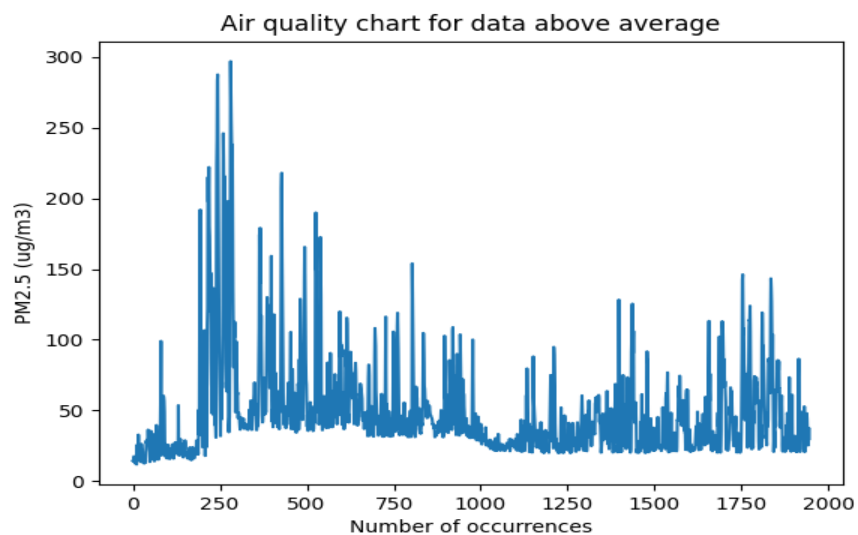
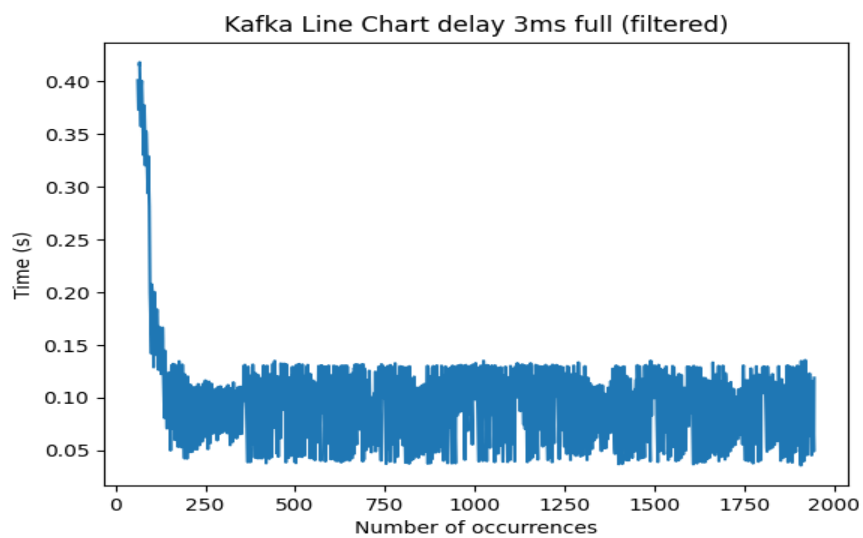
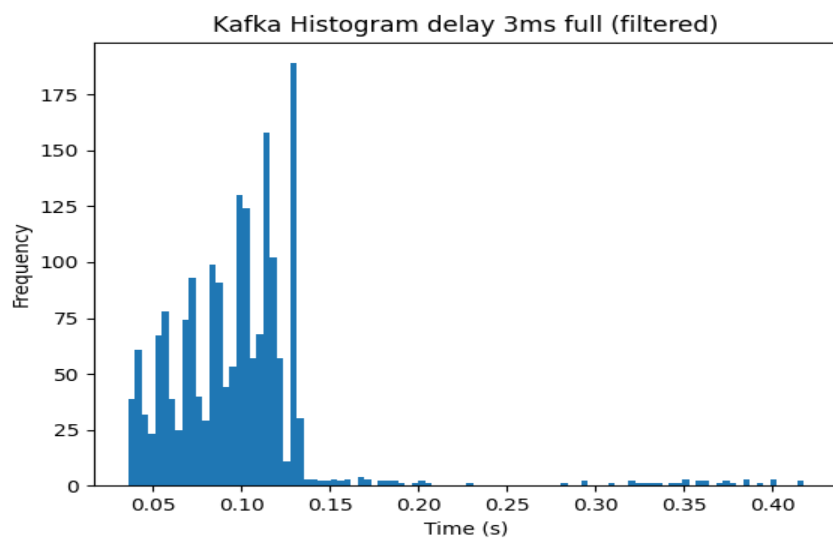
Kafka mean

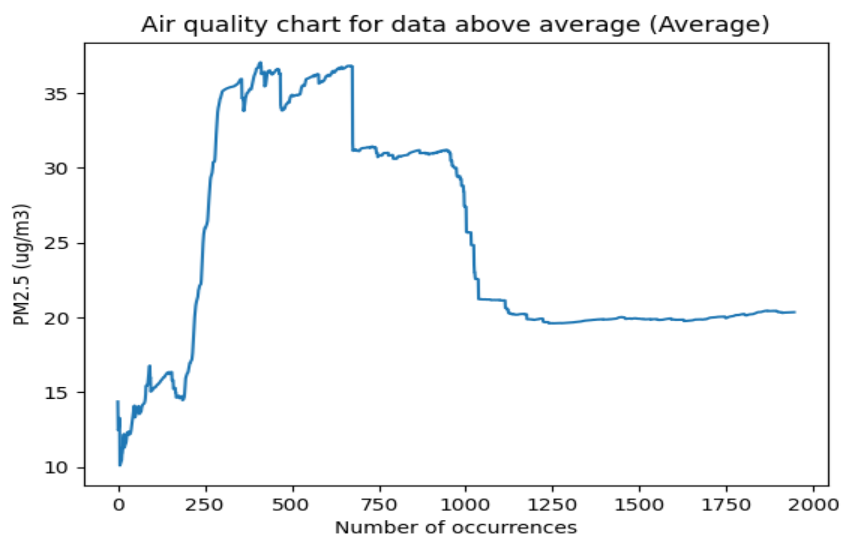
End Subtract Start: 0.11468740359897173

Average time for each sample

0.16940411311053985	0.08927969151670952	0.09762570694087404
0.09778766066838046	0.09601233933161954	0.0952185089974293
0.09086221079691519	0.08966323907455014	0.08981233933161954
0.2312082262210797		







Kafka test setup (kafkaDelay0Full)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Processed values (qty): 1945

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: 0.6169

Kafka standard deviation

End Subtract Start: 0.1407000128010295

Lower Bound: 0.2697069024709474

Upper Bound: 1.1139069792771243

Number of data in the std range: 1945

Number of data outside the std range: 0

Kafka interquartile range

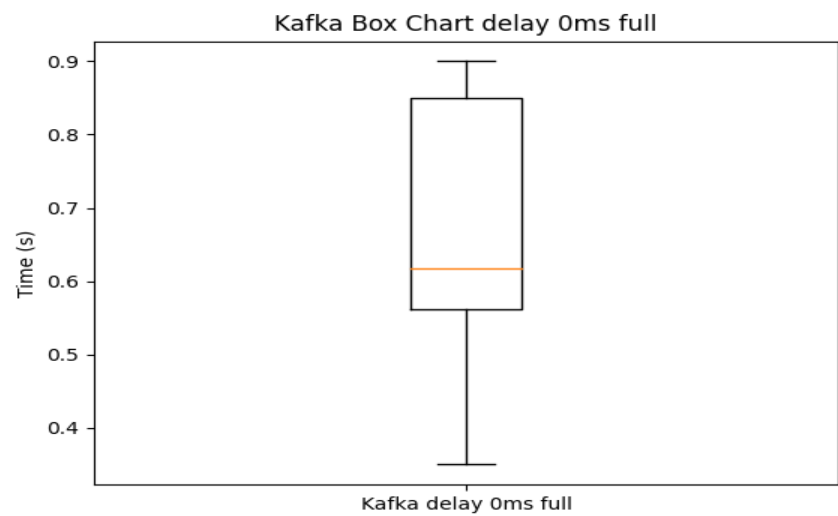
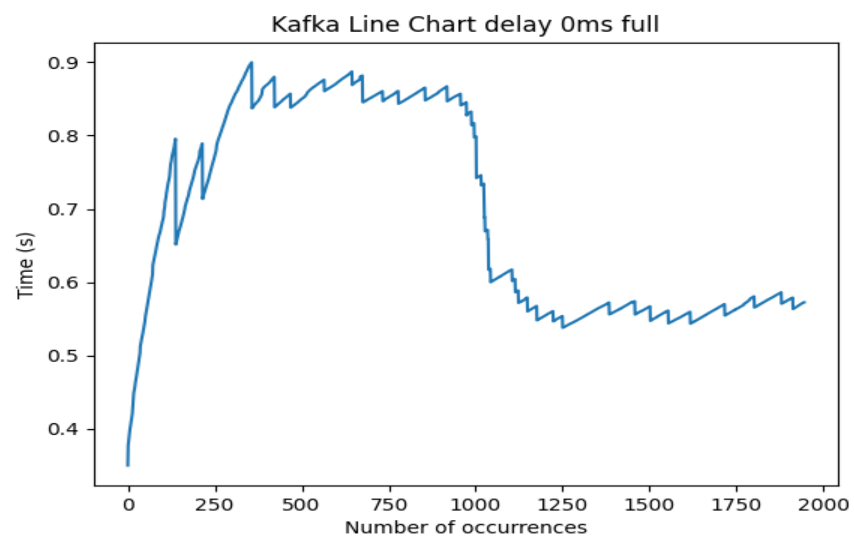
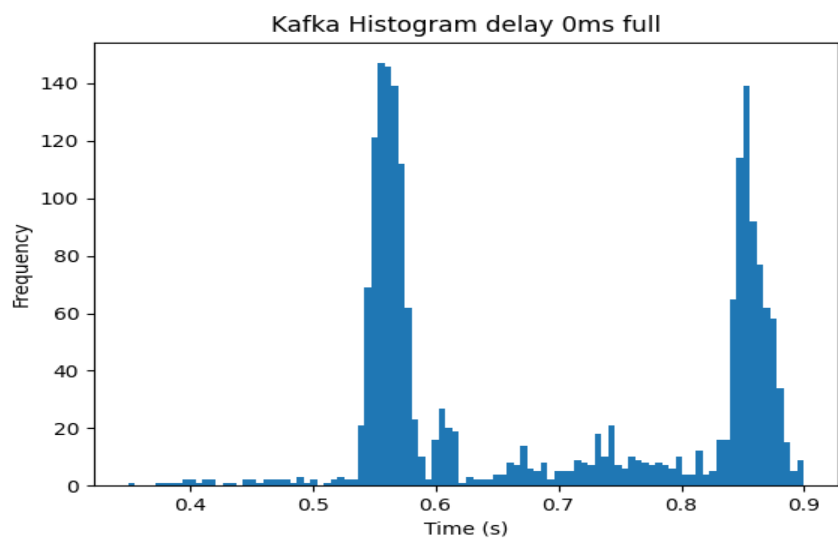
End Subtract Start: 0.28880000000000006

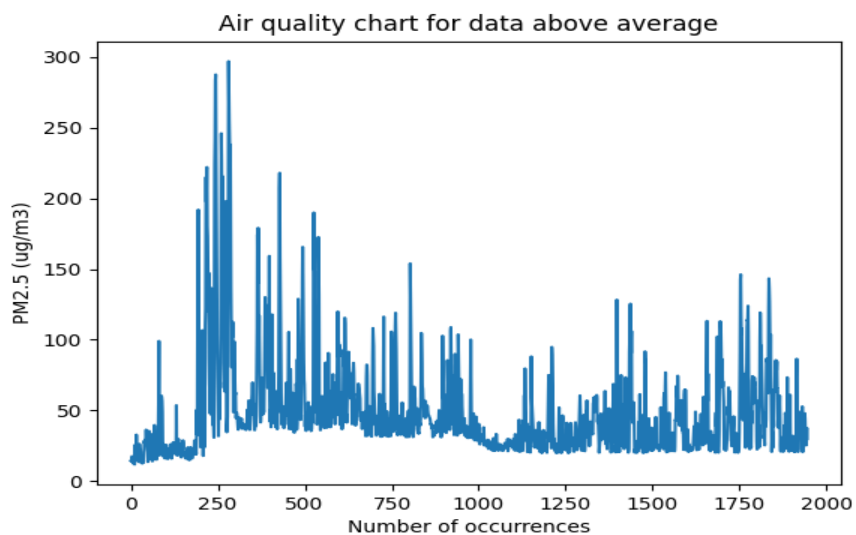
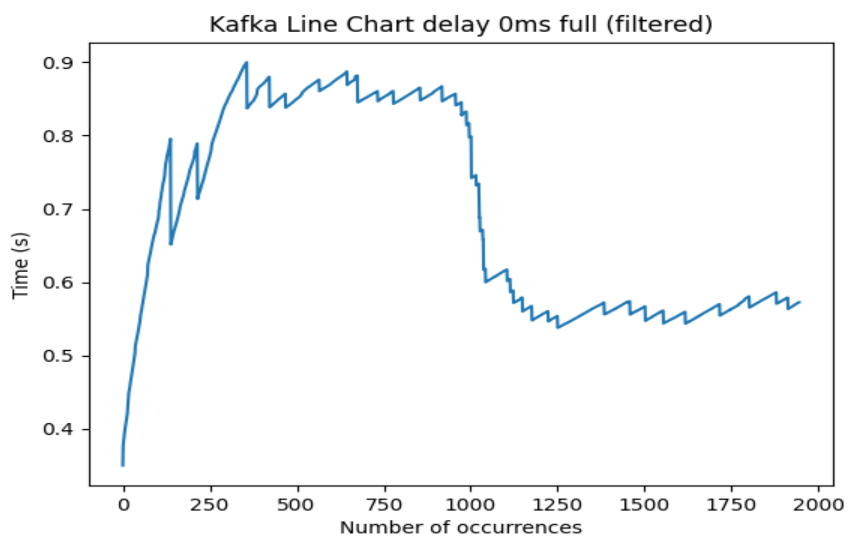
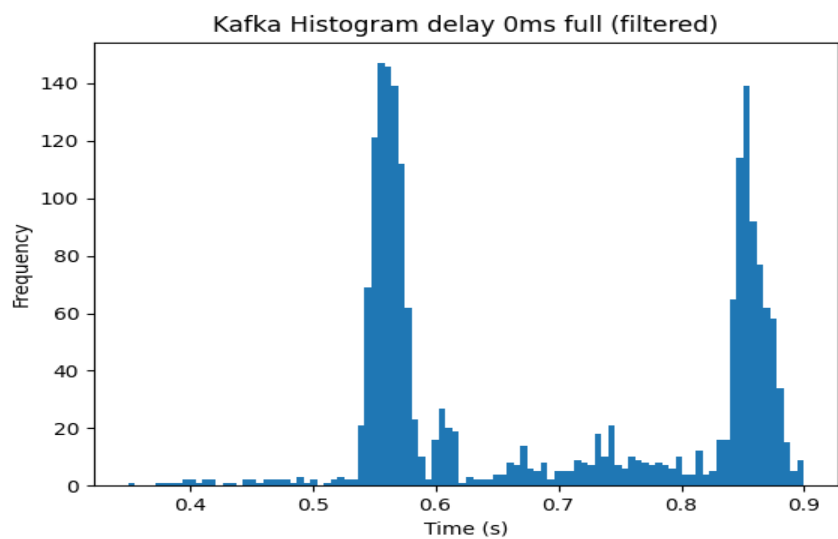
Kafka mean

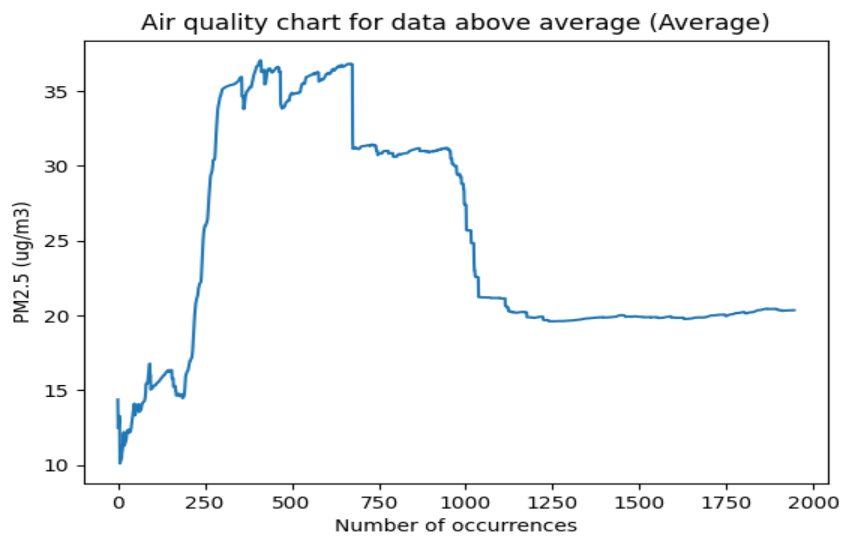
End Subtract Start: 0.6918069408740359

Average time for each sample

0.8400750642673521	0.6532210796915168	0.7697064267352185
0.6874354755784061	0.6448071979434448	0.6673604113110541
0.6933686375321337	0.7055845758354756	0.6246359897172236
0.6318745501285348		







Kafka test setup (kafkaDelay0Half)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 4380

Processed values (qty): 1024

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: 0.6984999999999999

Kafka standard deviation

End Subtract Start: 0.05454179554184078

Lower Bound: 0.5306247110307276

Upper Bound: 0.8578754842817724

Number of data in the std range: 1002

Number of data outside the std range: 22

Kafka interquartile range

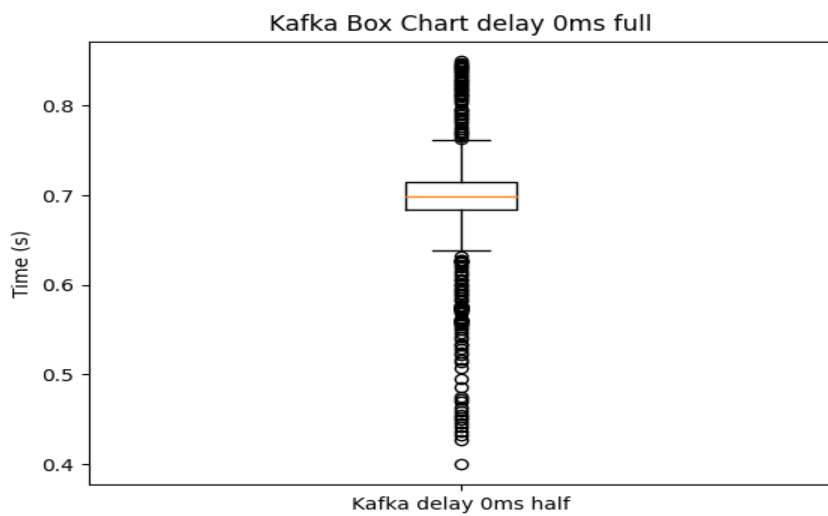
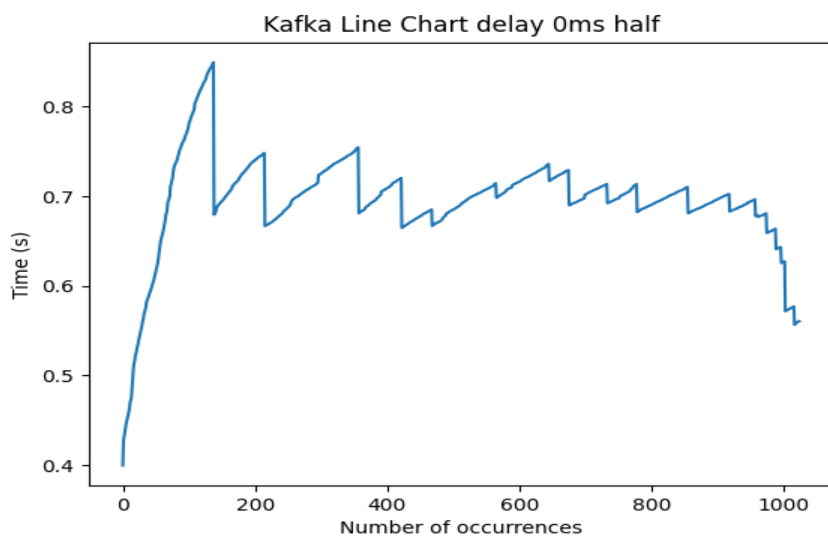
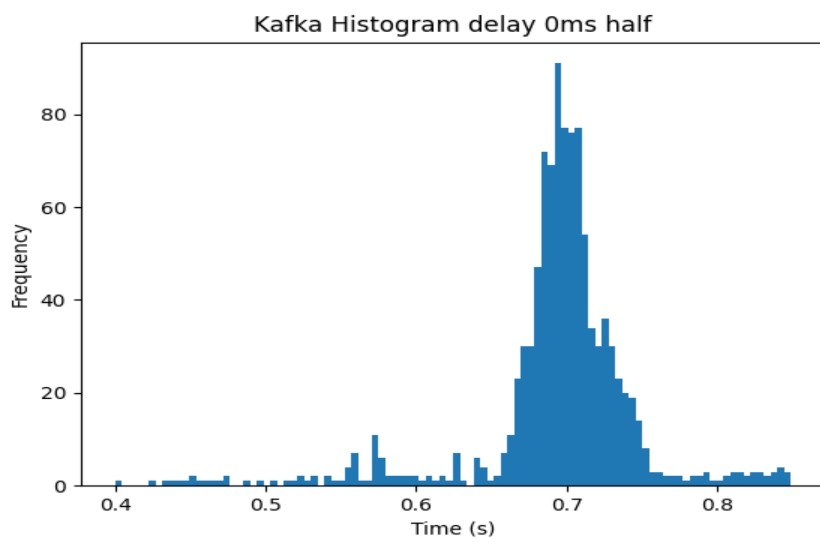
End Subtract Start: 0.031749999999999945

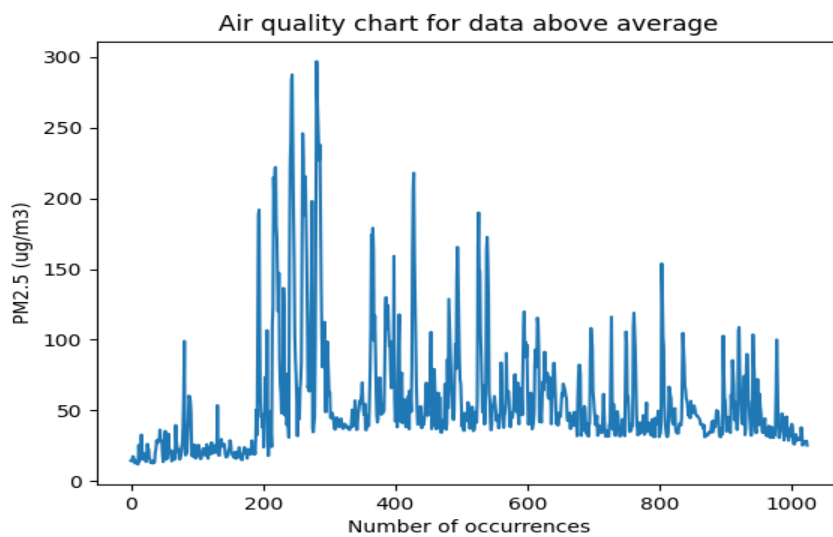
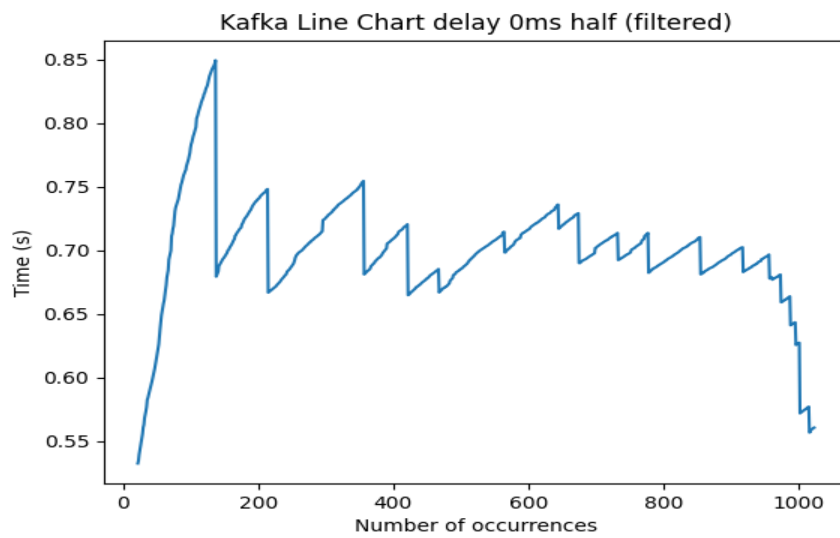
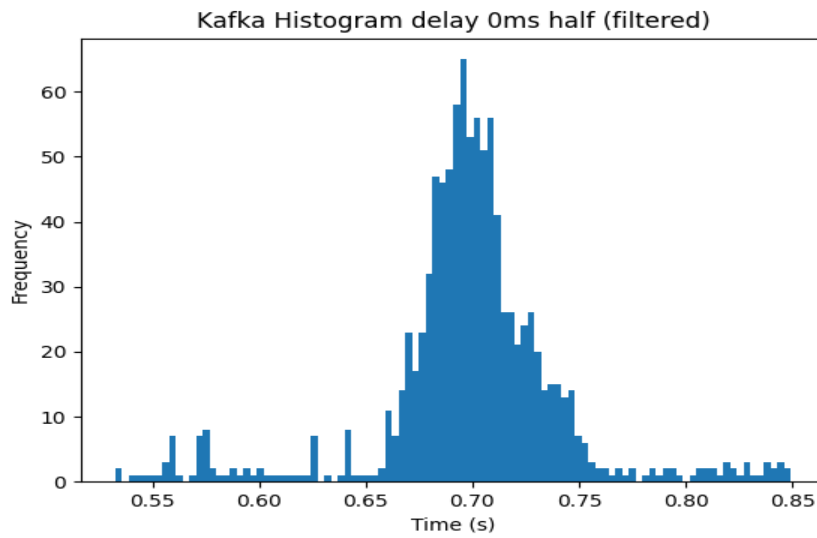
Kafka mean

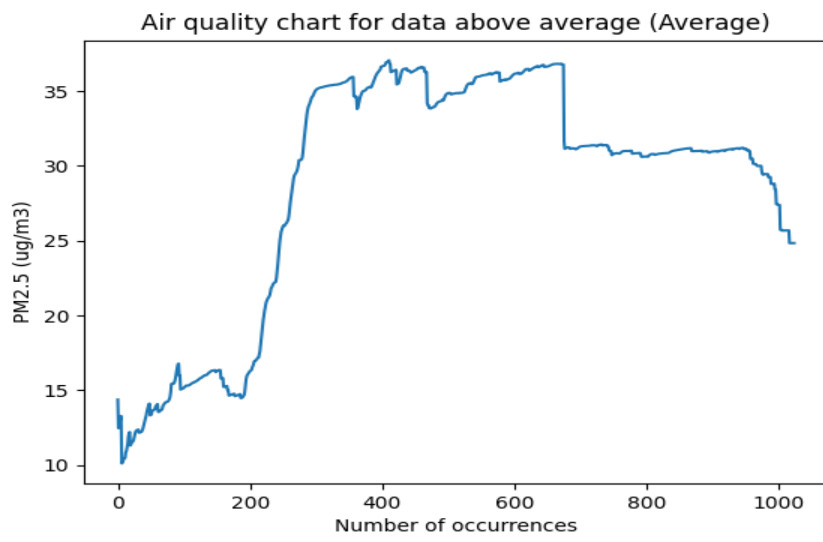
End Subtract Start: 0.69425009765625

Average time for each sample

0.5649472656250001 0.5526201171875 0.9706806640625001
0.6253662109375 0.6315312500000001 0.5583808593749999
0.63508203125 0.6297099609375001 1.0912480468749999
0.6829345703125







Spark test setup (sparkDelay3Full)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 3ms
Full data set (qty): 8760
Processed values (qty): 1945
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: 1.0102

Spark standard deviation

End Subtract Start: 0.6037551492871566
Lower Bound: -0.6543019003036292
Upper Bound: 2.9682289954193104
Number of data in the std range: 1869
Number of data outside the std range: 76

Spark interquartile range

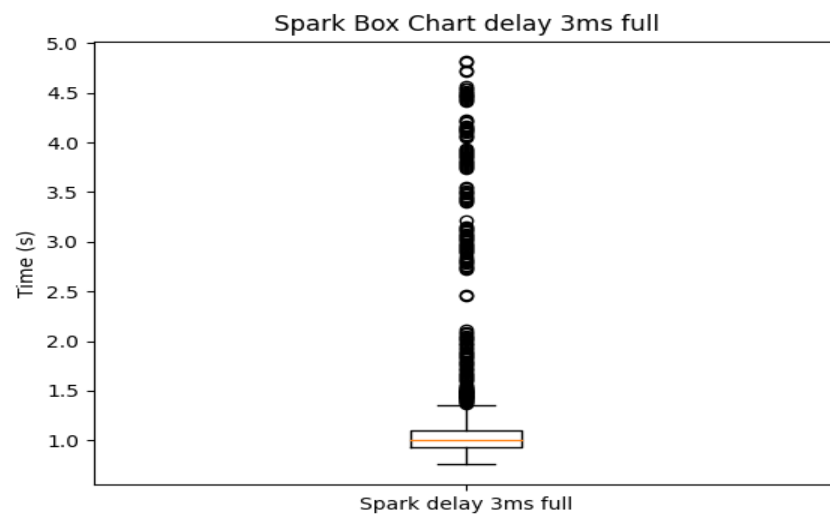
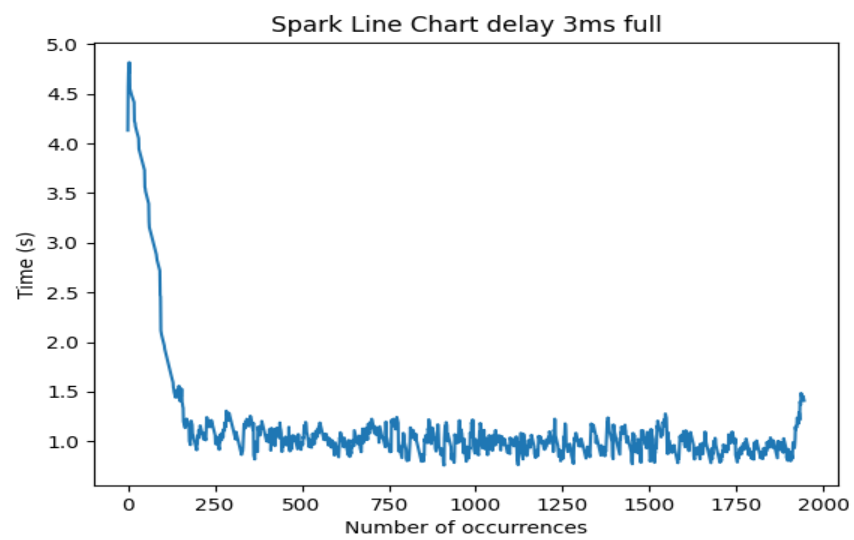
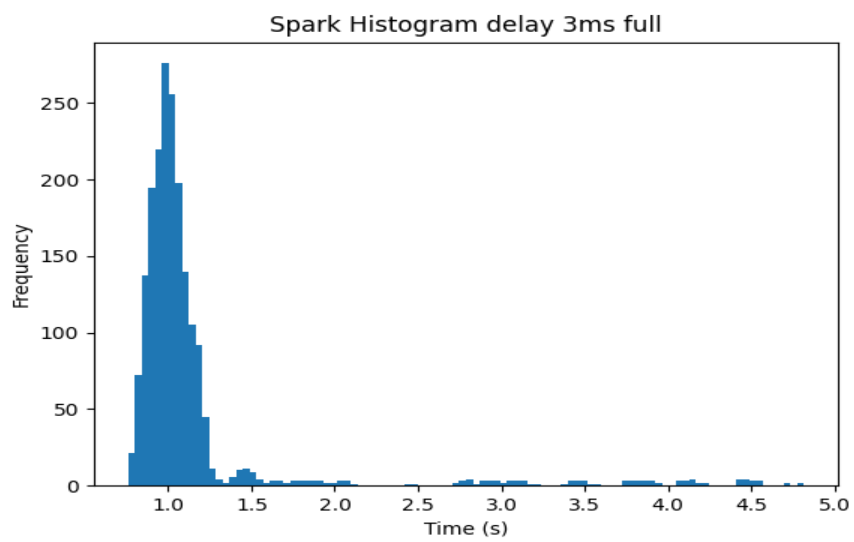
End Subtract Start: 0.17410000000000003

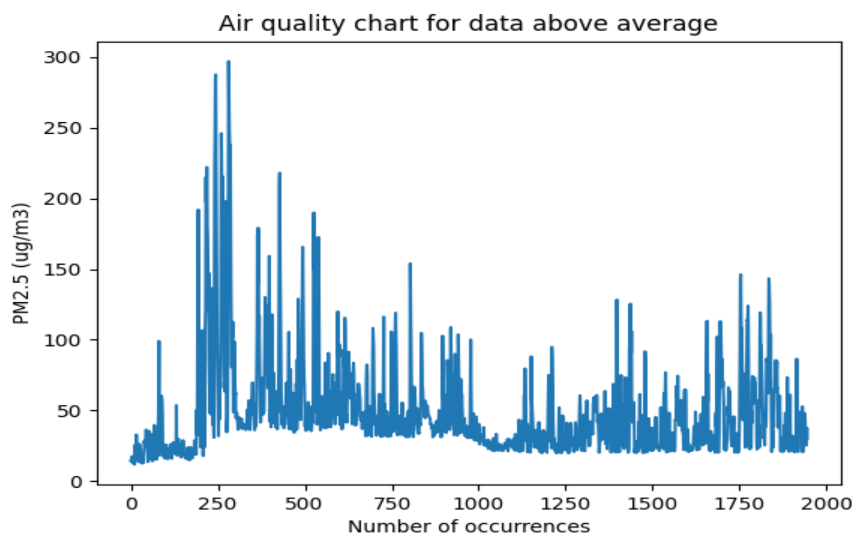
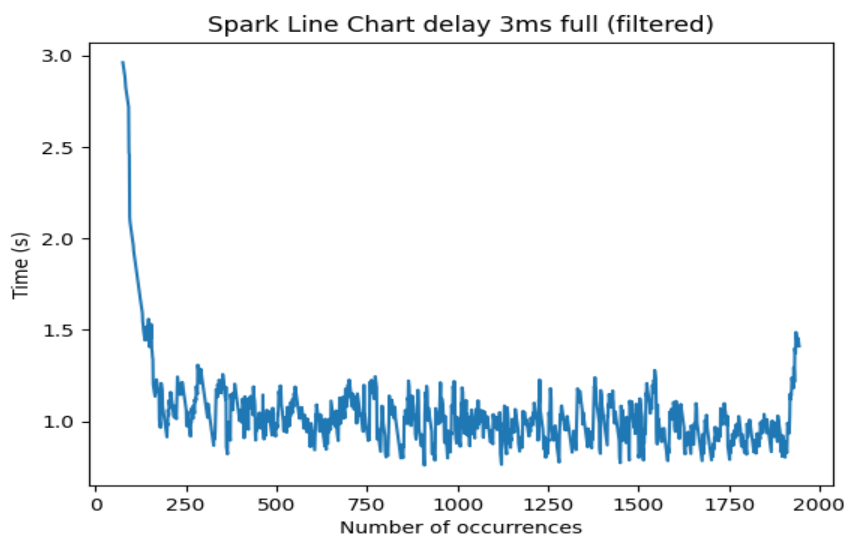
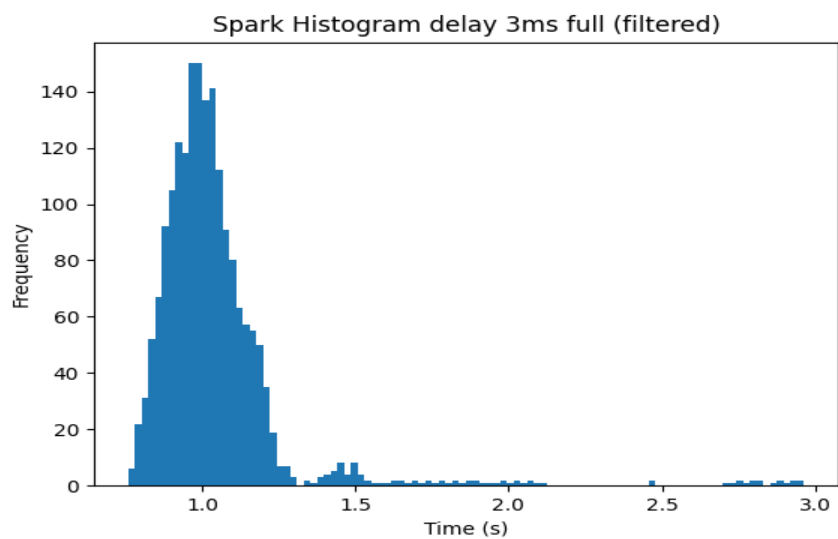
Spark mean

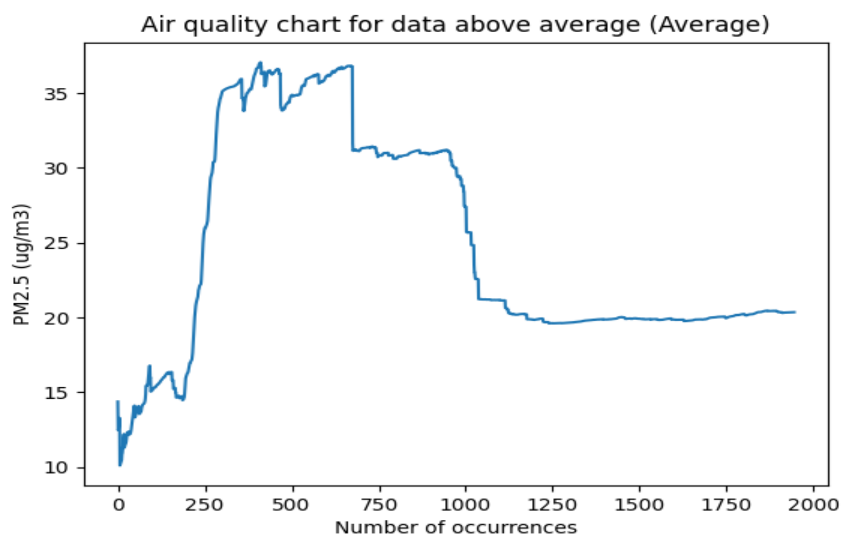
End Subtract Start: 1.1569635475578406

Average time for each sample

1.1516580976863755	1.0453053984575835	1.3607917737789201
1.1758061696658098	1.1614843187660668	1.1881264781491003
1.1134570694087405	1.1417856041131107	1.1417727506426736
1.0894478149100255		







Spark test setup (sparkDelay0Full)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 0ms
Full data set (qty): 8760
Processed values (qty): 1945
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: 4.190799999999999

Spark standard deviation

End Subtract Start: 0.14275810415171508
Lower Bound: 3.742941471606551
Upper Bound: 4.599490096516842
Number of data in the std range: 1849
Number of data outside the std range: 96

Spark interquartile range

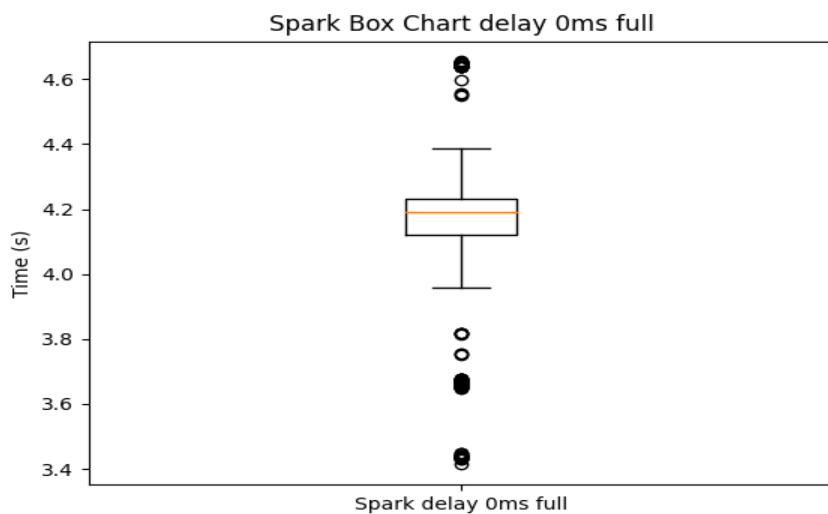
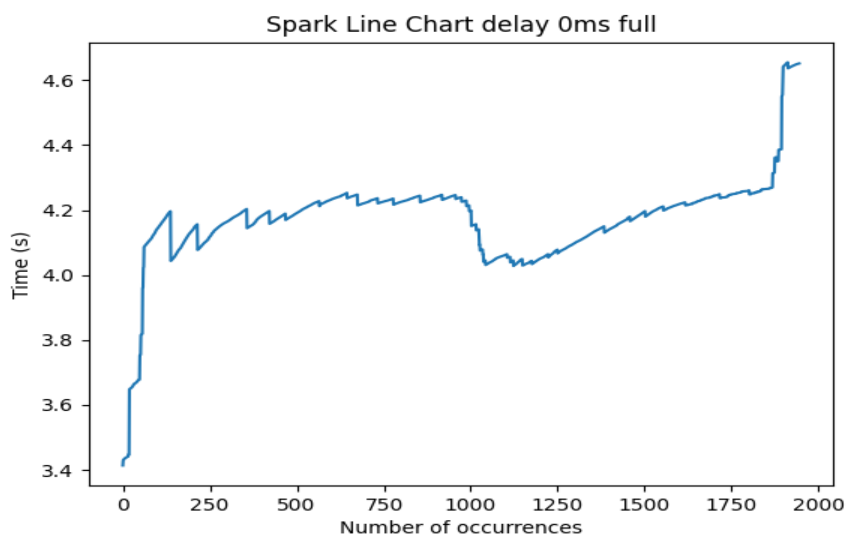
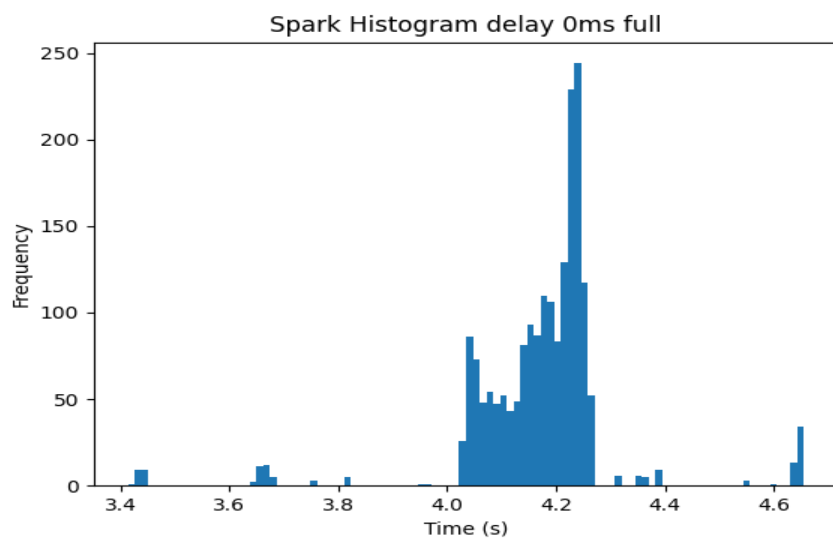
End Subtract Start: 0.11289999999999978

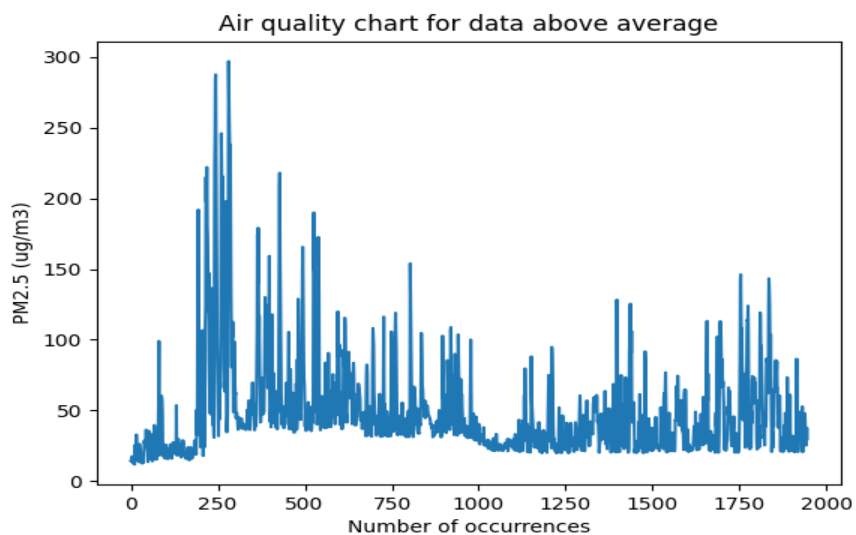
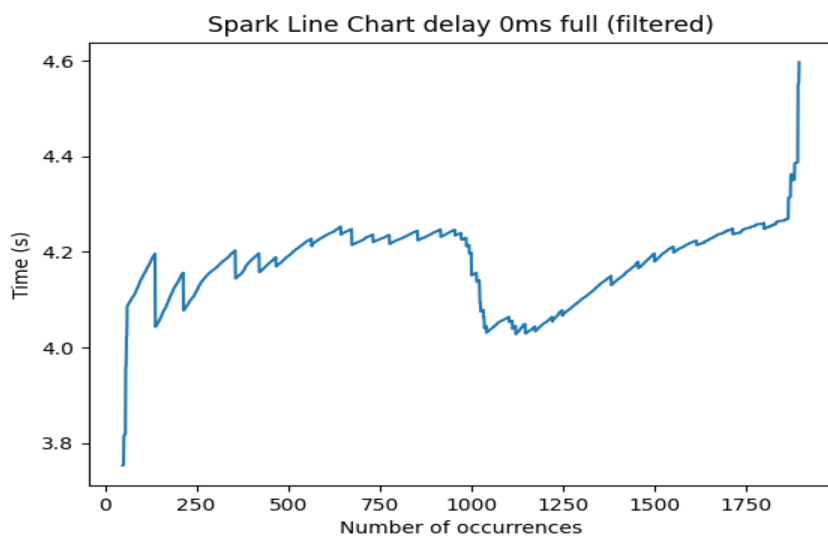
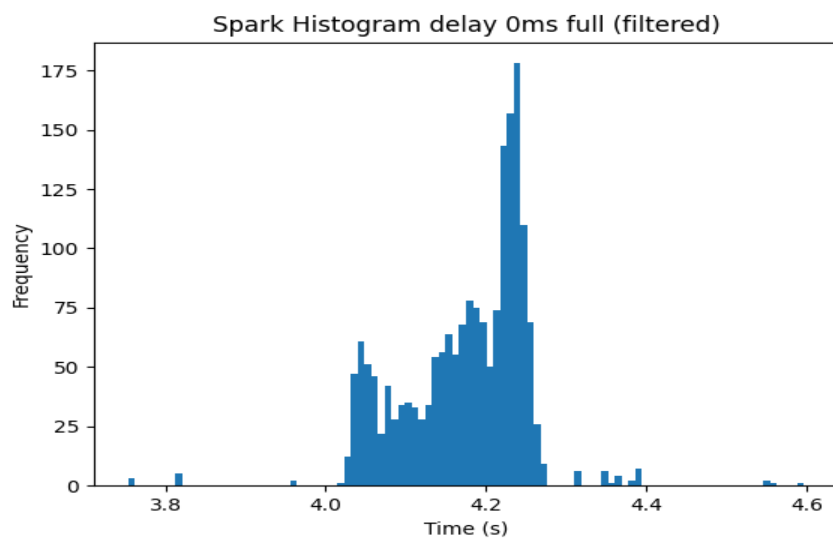
Spark mean

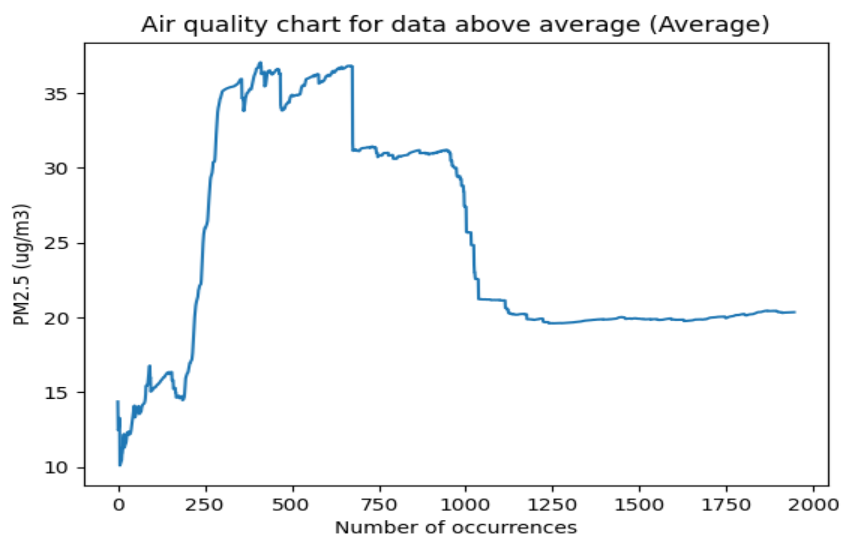
End Subtract Start: 4.171215784061697

Average time for each sample

4.239238046272493	4.15458971722365	4.052502827763496
6.336243701799487	4.05229203084833	3.622385089974293
3.6071043701799486	4.086564524421594	3.564146015424164
3.997091516709512		







Spark test setup (sparkDelay0Half)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 0ms
Full data set (qty): 4380
Processed values (qty): 1024
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: 3.94985

Spark standard deviation

End Subtract Start: 0.14170385228468327
Lower Bound: 3.49424859939595
Upper Bound: 4.344471713104049
Number of data in the std range: 1004
Number of data outside the std range: 20

Spark interquartile range

End Subtract Start: 0.10822499999999824

Spark mean

End Subtract Start: 3.91936015625

Average time for each sample

3.5744453125 4.3195087890625 4.4132939453125
3.4662197265625 3.7481044921875 4.057943359375
3.9085585937500005 3.9117783203124996 3.940142578125
3.8536064453125

