

Kafka test setup (kafkaDelay3Full)

Technology: Kafka Streams

Producer Delay (Send next message): 3ms

Full data set (qty): 8760

Number of tests performed: 5

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 0.084600000000000001

Kafka standard deviation

End Subtract Start: 0.22473290013803743

Lower Bound: -0.5498806410533817

UpperBound: 0.7985167597748429

Number of data in the std range: 8545

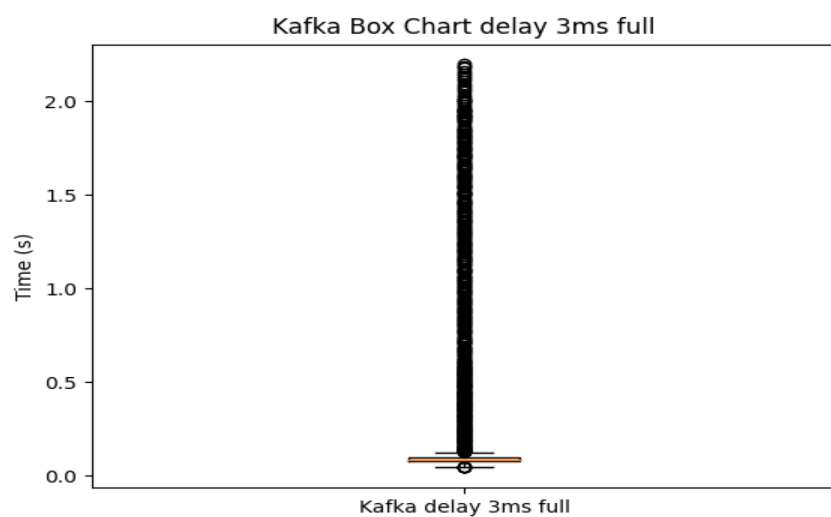
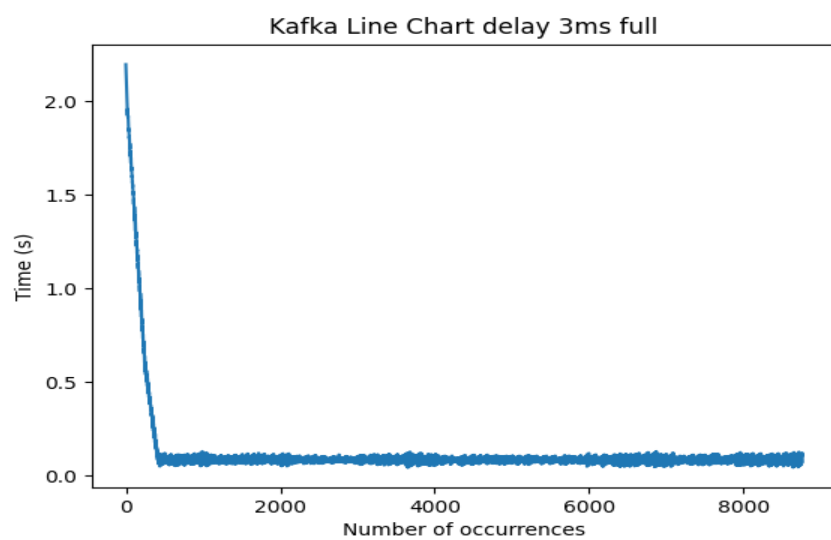
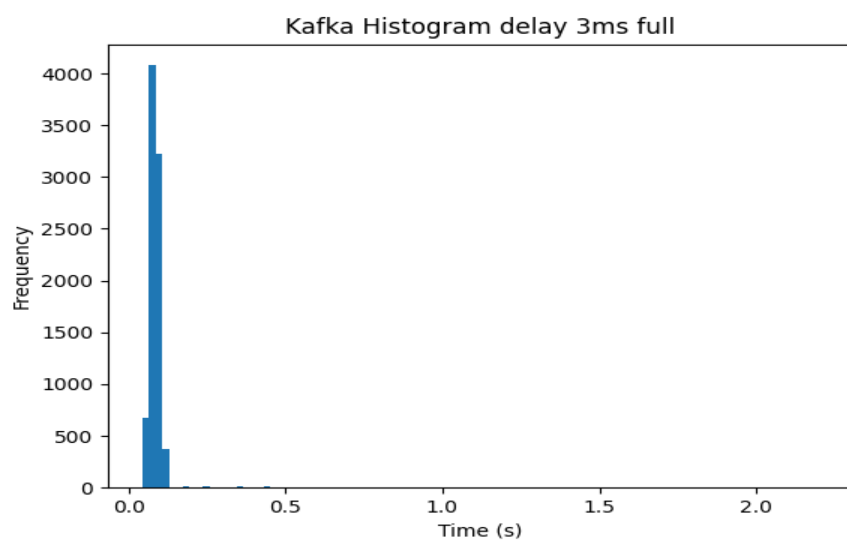
Number of data outside the std range: 215

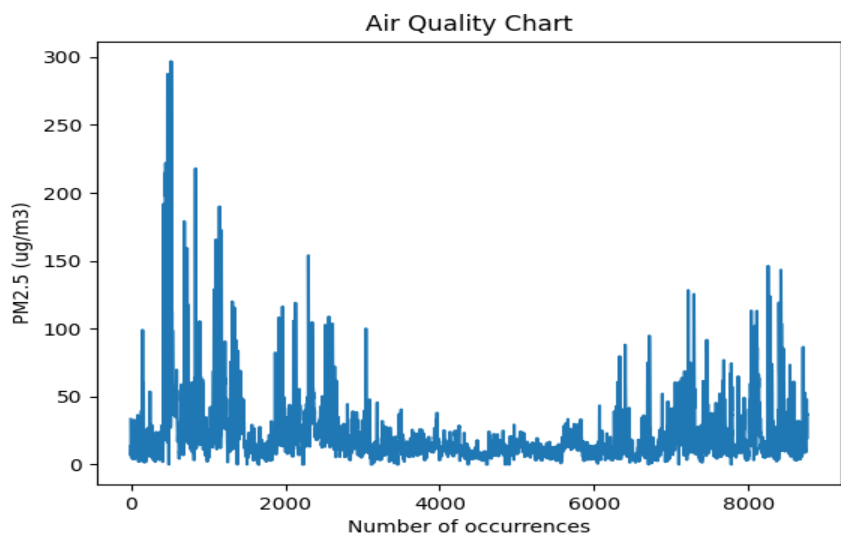
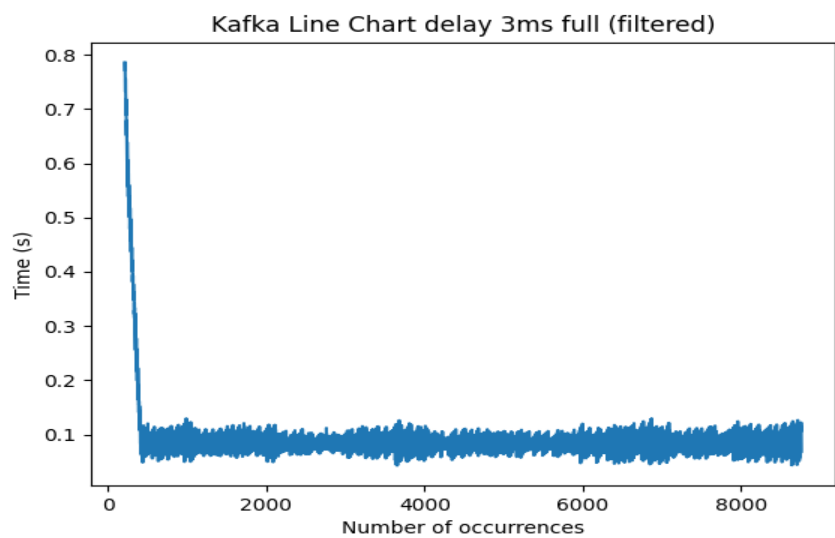
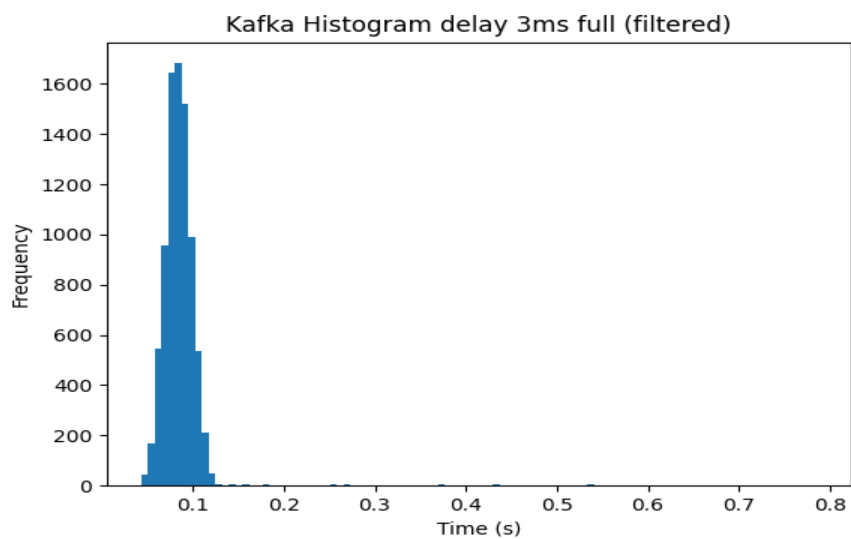
Kafka interquartile range

End Subtract Start: 0.0204

Kafka mean

End Subtract Start: 0.12431805936073057





Kafka test setup (kafkaDelay0Full)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Number of tests performed: 5

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 2.3583

Kafka standard deviation

End Subtract Start: 0.7615624821081167

Lower Bound: 0.03898762216880014

Upper Bound: 4.6083625148175

Number of data in the std range: 8760

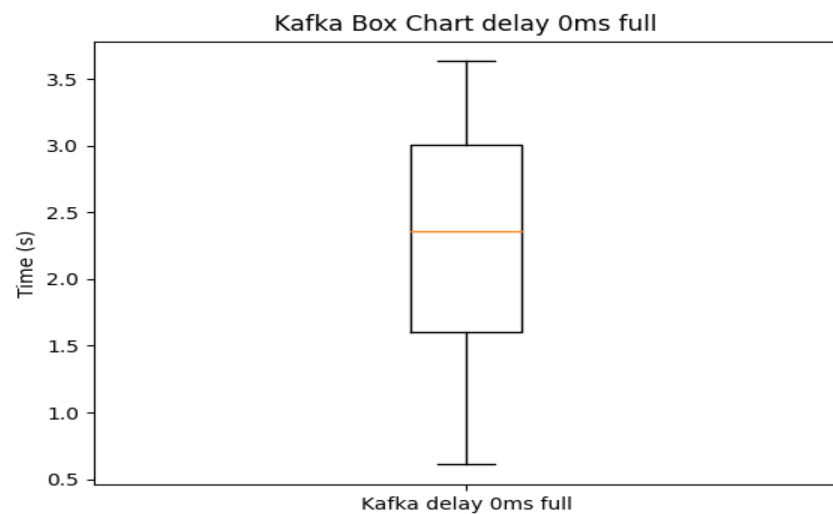
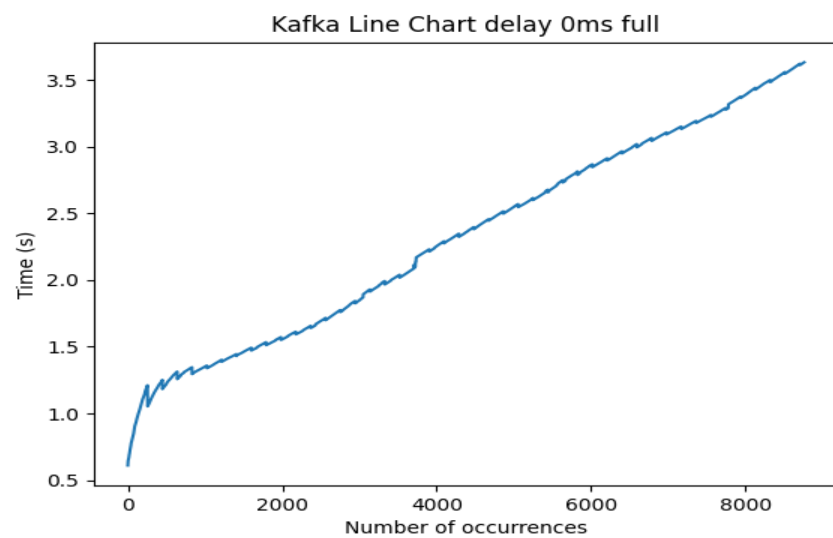
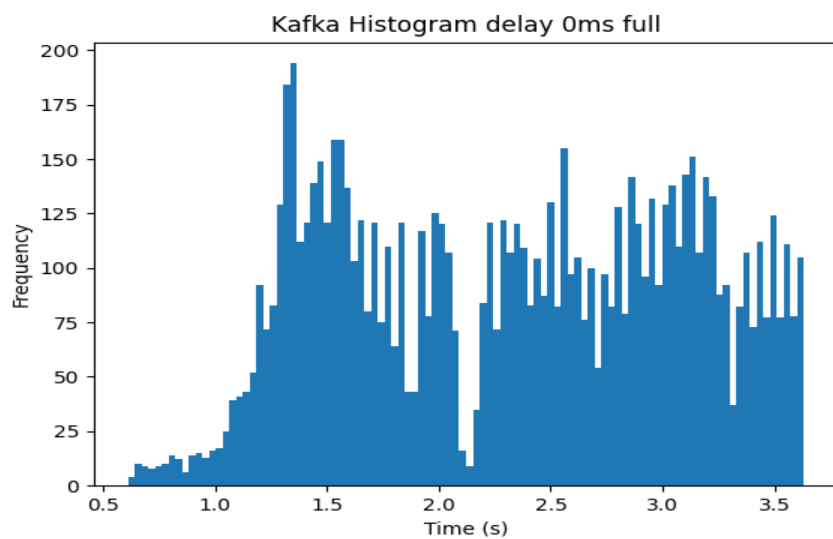
Number of data outside the std range: 0

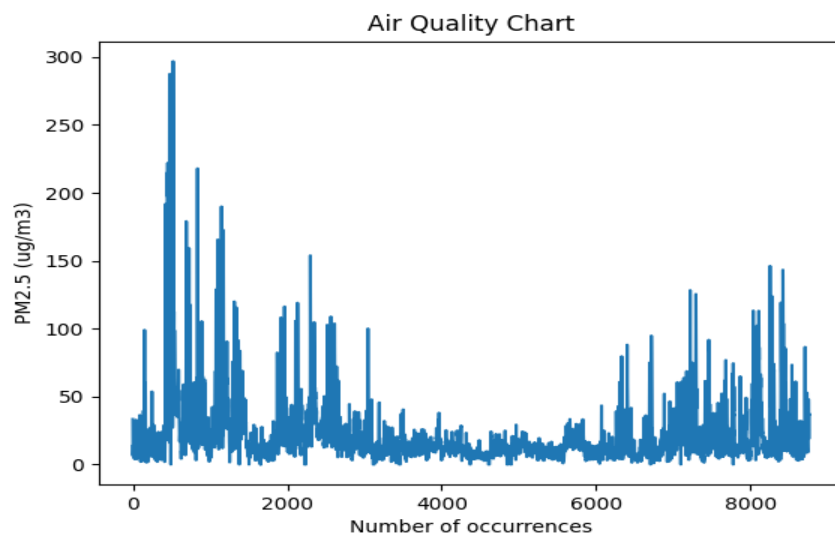
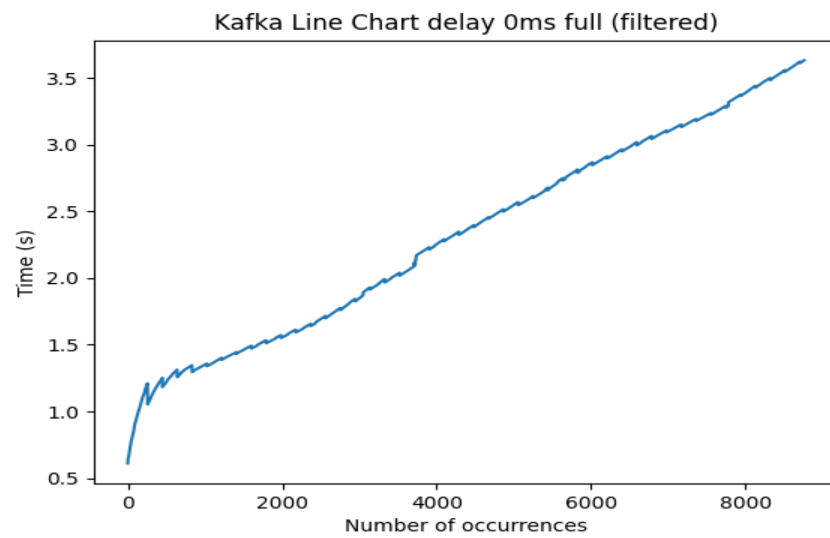
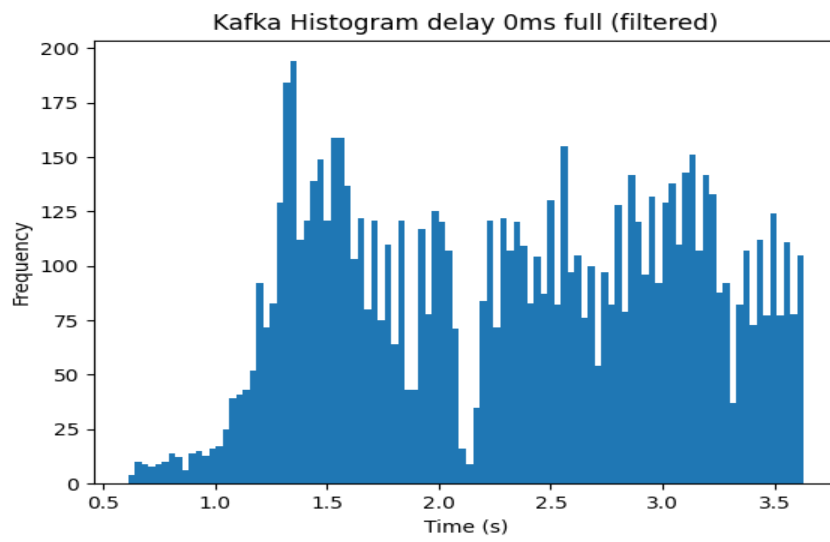
Kafka interquartile range

End Subtract Start: 1.398

Kafka mean

End Subtract Start: 2.3236750684931504





Kafka test setup (kafkaDelay0Half)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 4380

Number of tests performed: 5

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 5.342499999999999

Kafka standard deviation

End Subtract Start: 0.4631643357872056

Lower Bound: 4.093240371633817

Upper Bound: 6.872226386357051

Number of data in the std range: 4380

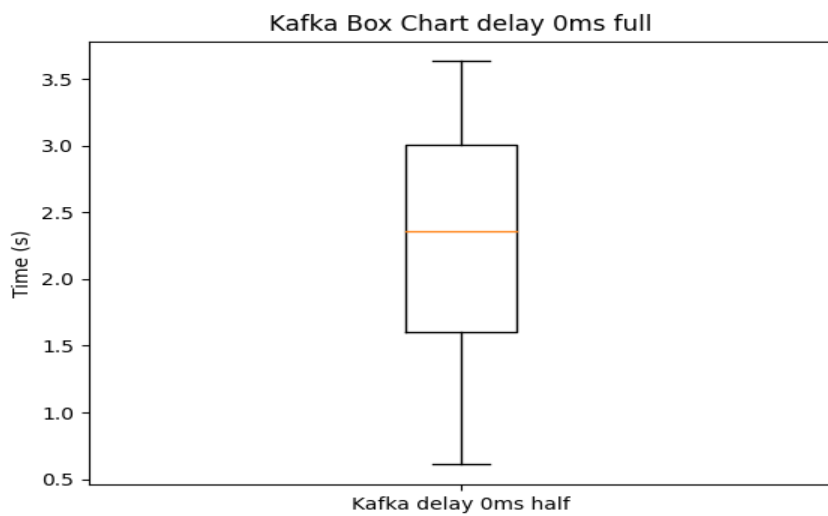
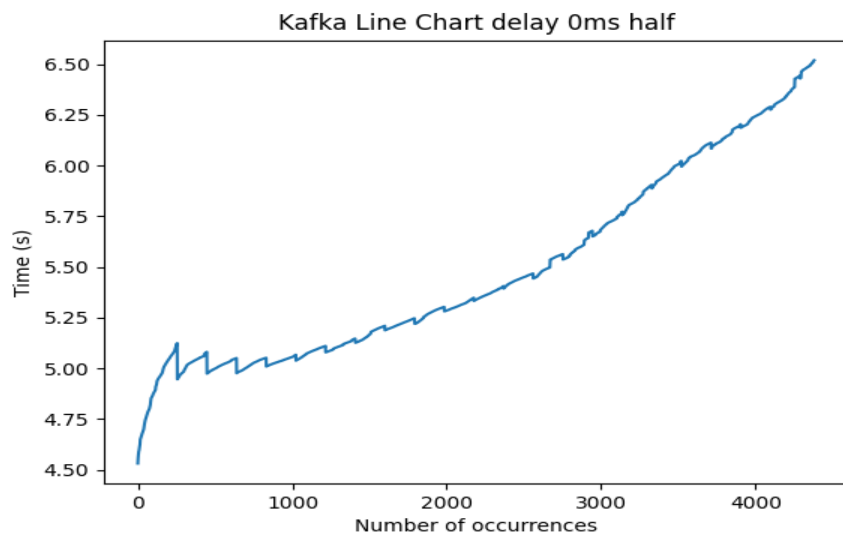
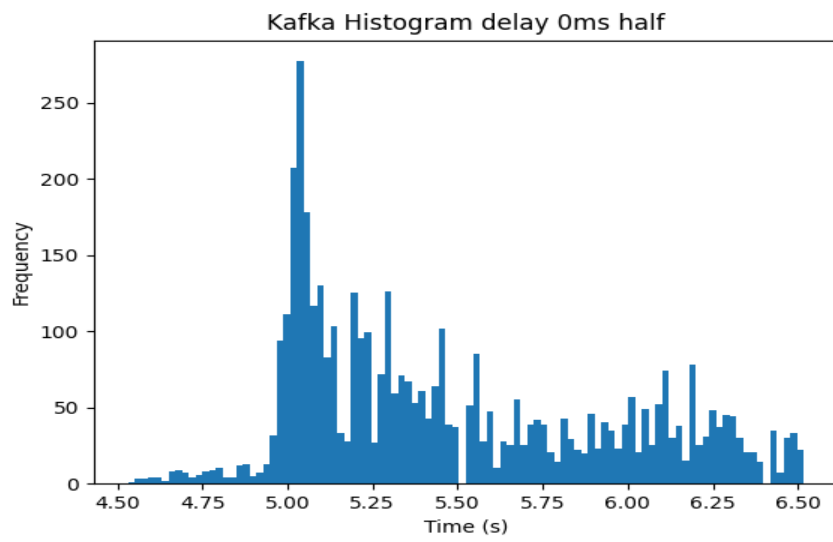
Number of data outside the std range: 0

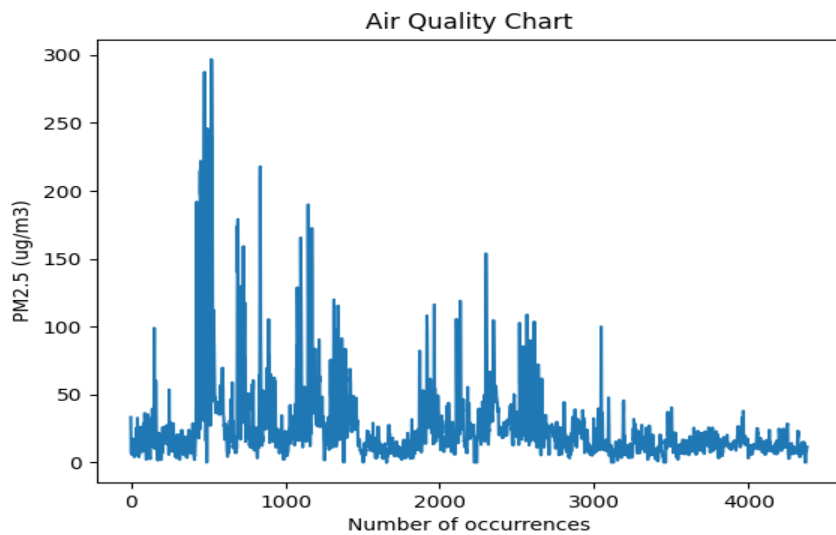
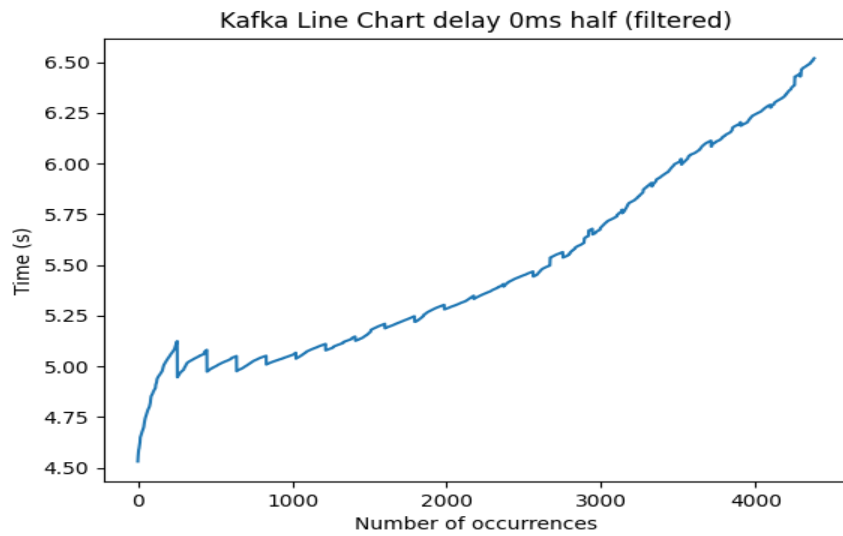
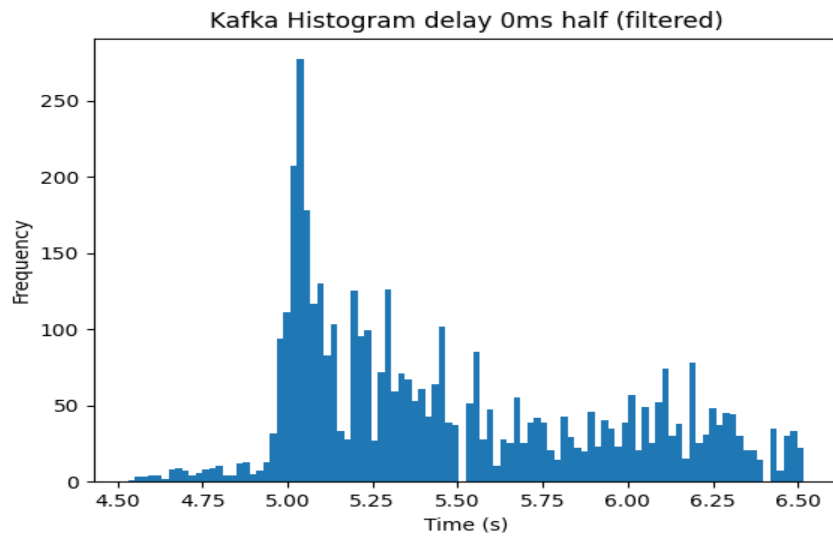
Kafka interquartile range

End Subtract Start: 0.7993999999999994

Kafka mean

End Subtract Start: 5.482733378995434





Spark test setup (sparkDelay3Full)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 3ms
Full data set (qty): 8760
Number of tests performed: 5
Start: Timestamp from Producer
End: Timestamp from Consumer
Unit: The results are given in seconds

Spark median values

End Subtract Start: 0.8321999999999999

Spark standard deviation

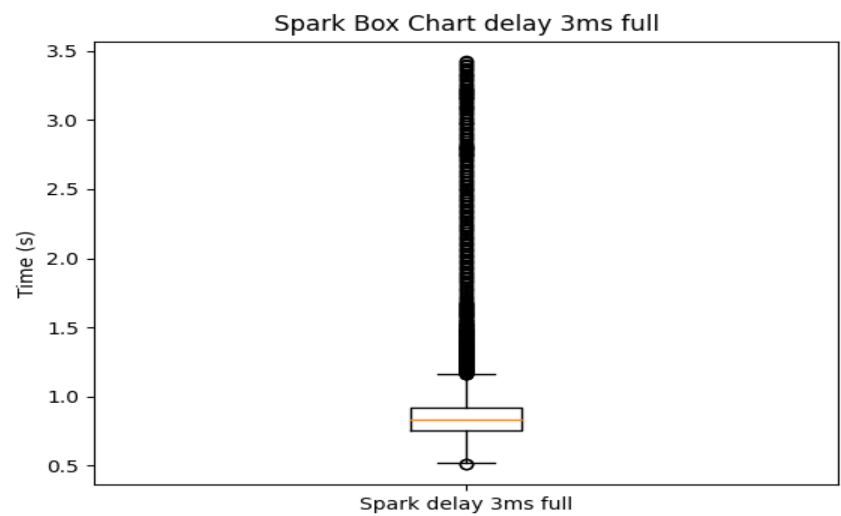
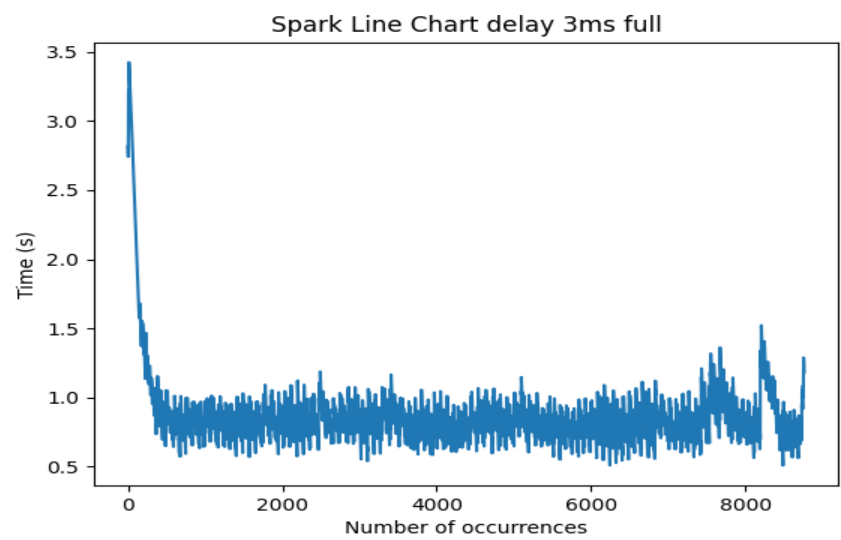
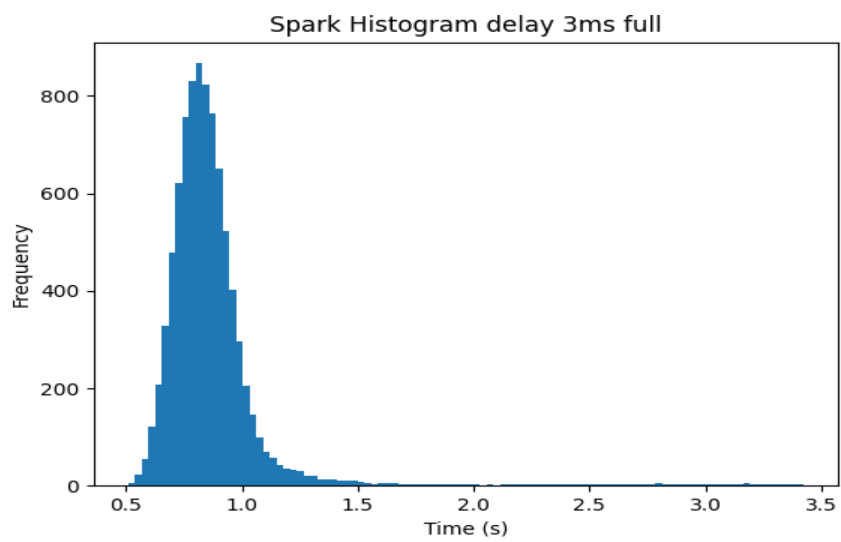
End Subtract Start: 0.2711297165533159
Lower Bound: 0.061306809244161875
Upper Bound: 1.6880851085640574
Number of data in the std range: 8620
Number of data outside the std range: 140

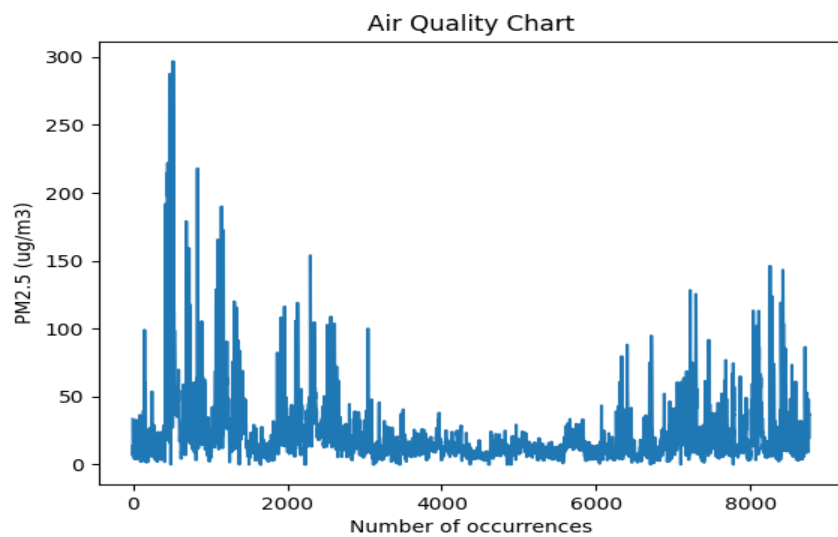
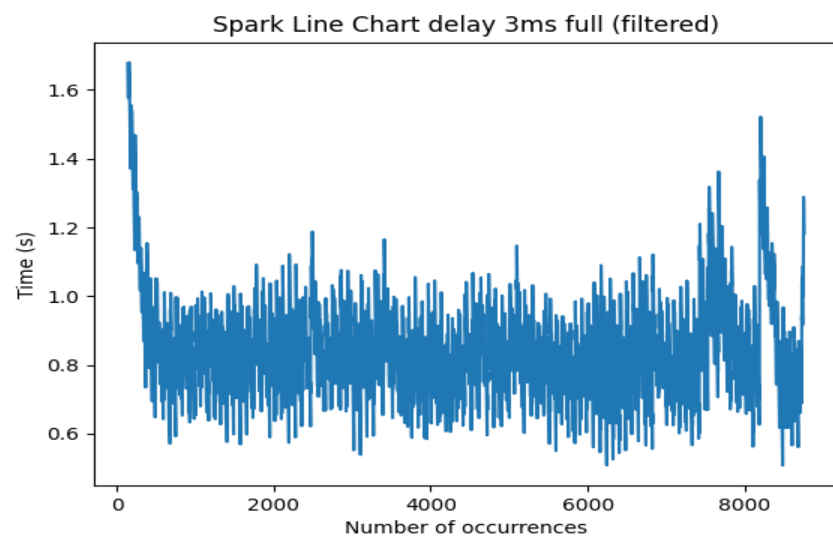
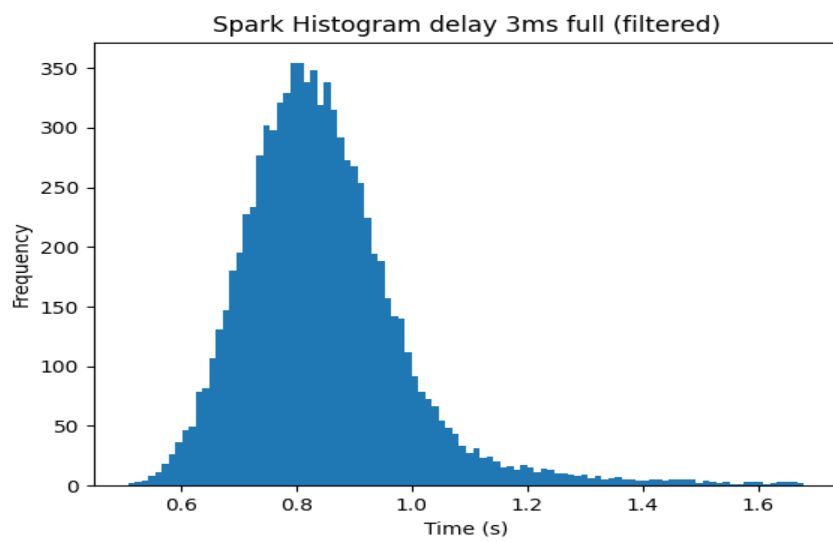
Spark interquartile range

End Subtract Start: 0.16299999999999998

Spark mean

End Subtract Start: 0.8746959589041096





Spark test setup (sparkDelay0Full)

Technology: Spark Structured Streaming

Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Number of tests performed: 5

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Spark median values

End Subtract Start: 5.9833

Spark standard deviation

End Subtract Start: 0.8714526953812832

Lower Bound: 3.3426388316643703

Upper Bound: 8.57135500395207

Number of data in the std range: 8760

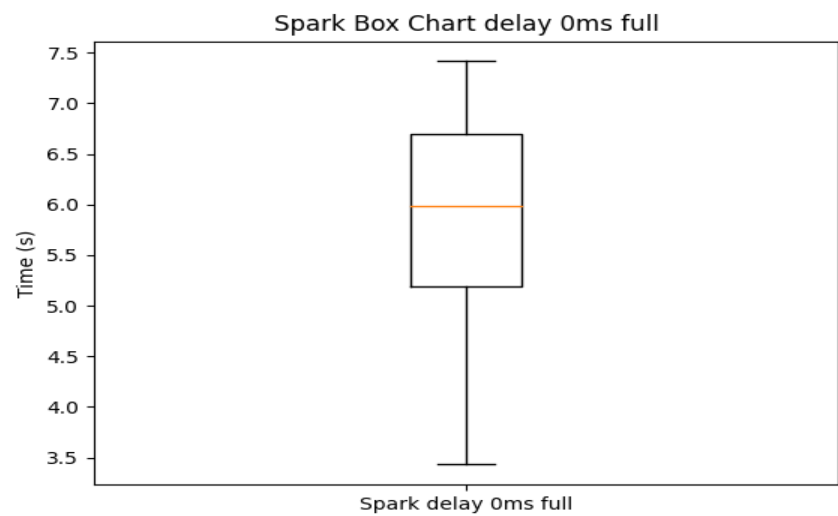
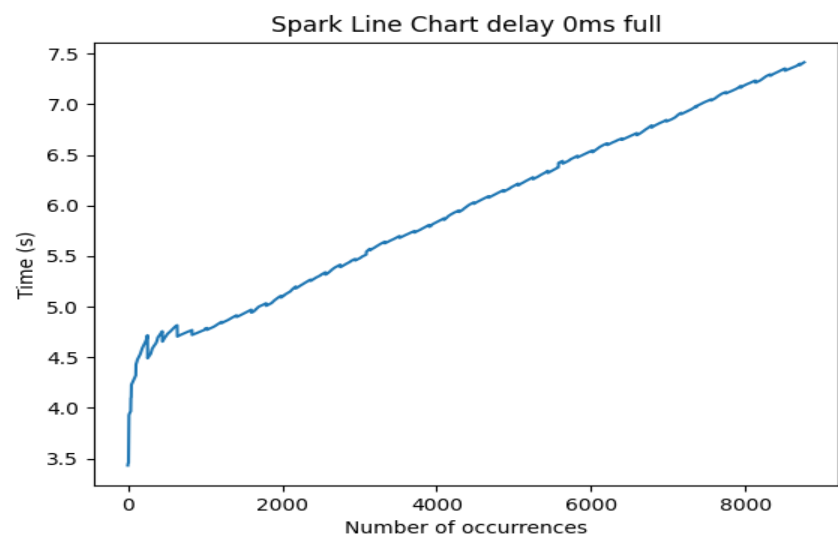
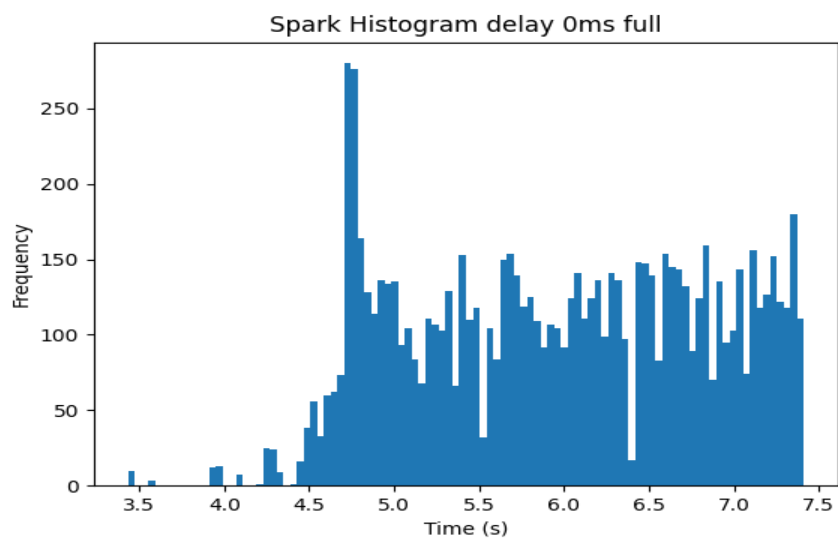
Number of data outside the std range: 0

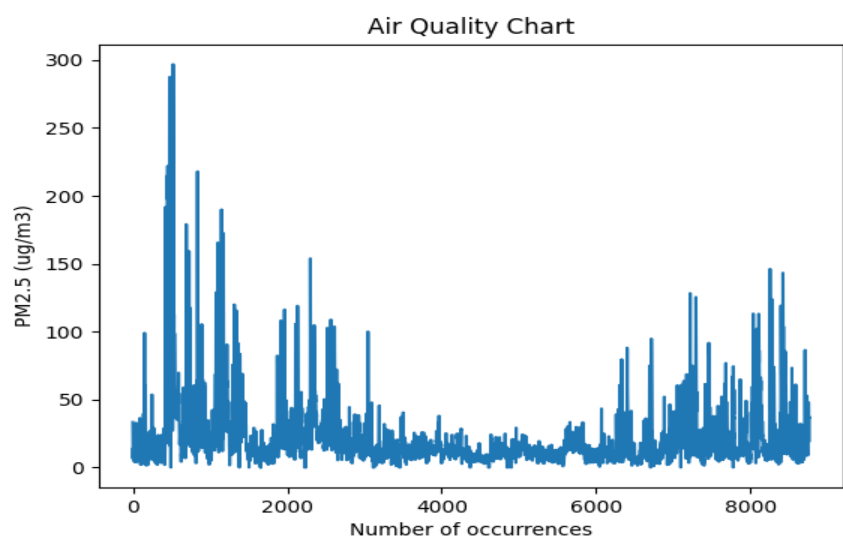
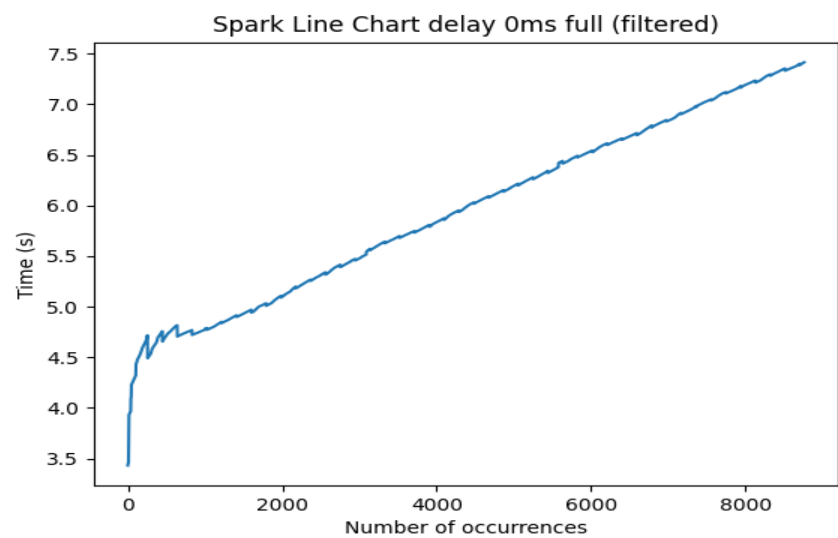
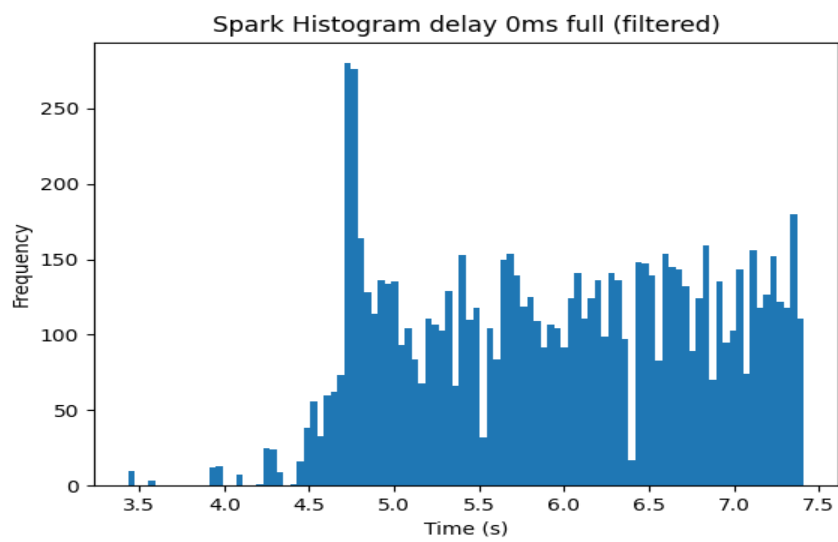
Spark interquartile range

End Subtract Start: 1.5070999999999994

Spark mean

End Subtract Start: 5.95699691780822





Spark test setup (sparkDelay0Half)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 0ms
Full data set (qty): 4380
Number of tests performed: 5
Start: Timestamp from Producer
End: Timestamp from Consumer
Unit: The results are given in seconds

Spark median values

End Subtract Start: 4.8353

Spark standard deviation

End Subtract Start: 0.5512861461493102
Lower Bound: 3.243264072967595
Upper Bound: 6.550980949863456
Number of data in the std range: 4371
Number of data outside the std range: 9

Spark interquartile range

End Subtract Start: 0.97445

Spark mean

End Subtract Start: 4.8971225114155255

