

Kafka test setup (kafkaDelay3Full)

Technology: Kafka Streams

Producer Delay (Send next message): 3ms

Full data set (qty): 8760

Number of tests performed: 20

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 0.08380000000000001

Kafka standard deviation

End Subtract Start: 0.24411373493556607

Lower Bound: -0.5934359707884334

UpperBound: 0.871246438824963

Number of data in the std range: 8504

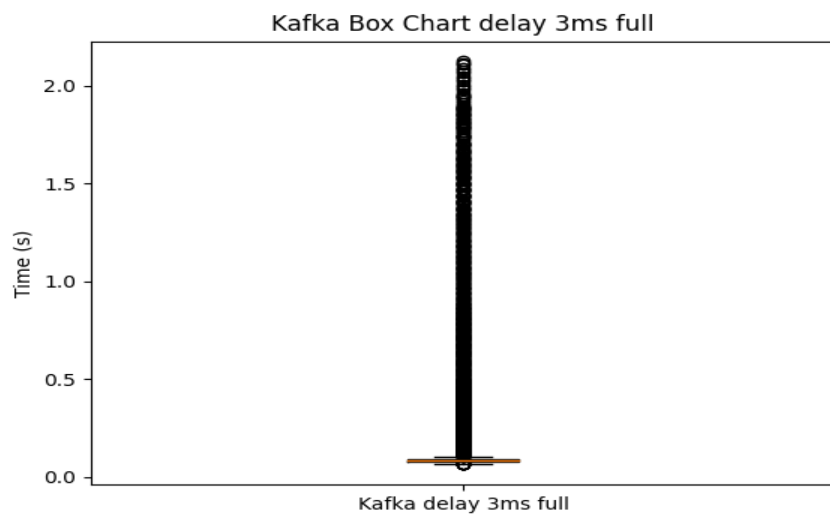
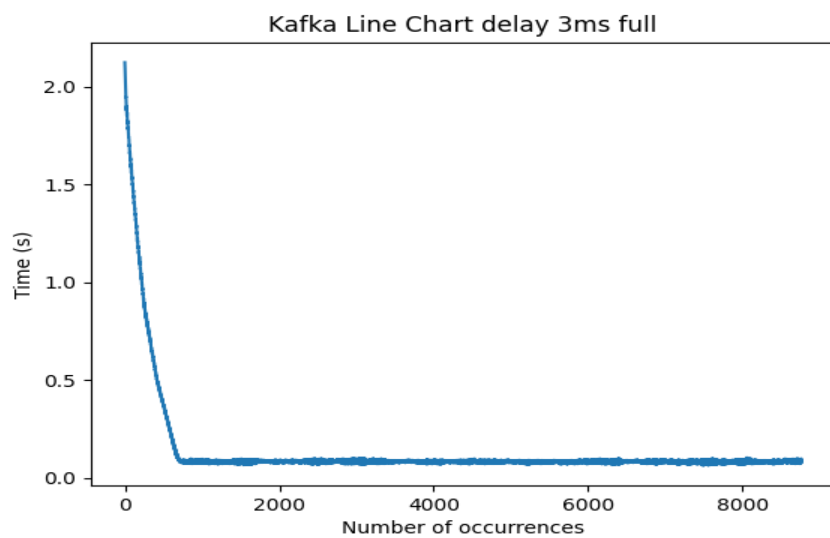
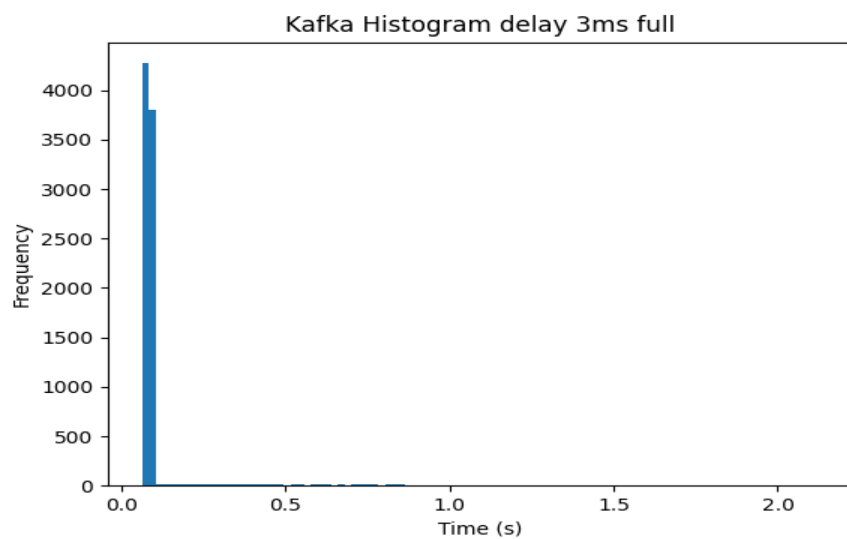
Number of data outside the std range: 256

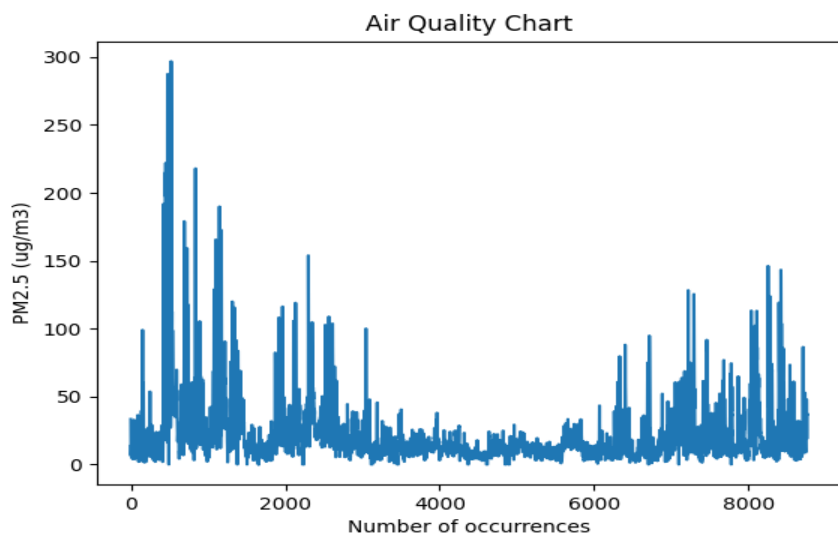
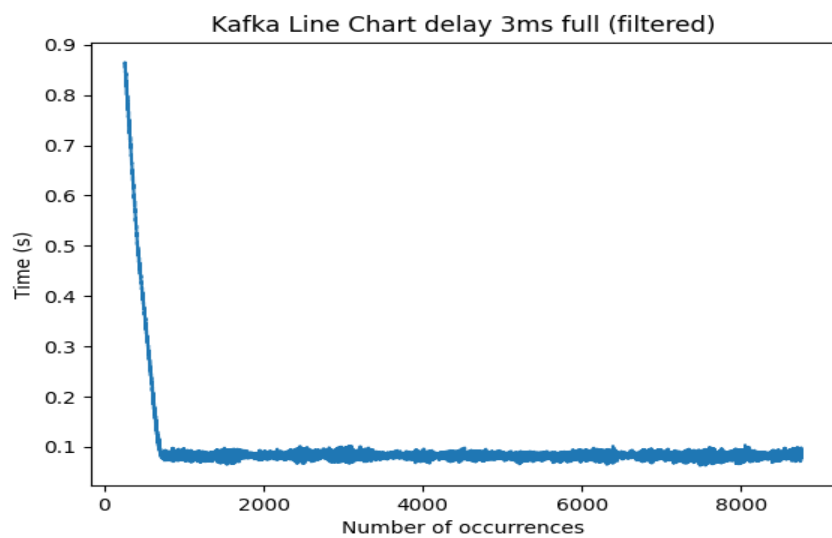
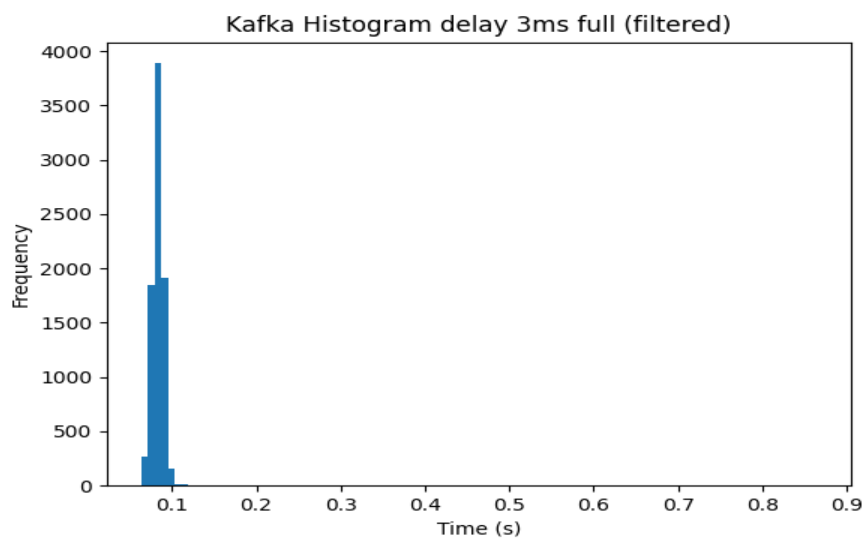
Kafka interquartile range

End Subtract Start: 0.009199999999999986

Kafka mean

End Subtract Start: 0.13890523401826485





Kafka test setup (kafkaDelay0Full)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Number of tests performed: 20

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 3.9907749999999993

Kafka standard deviation

End Subtract Start: 0.6465114863052835

Lower Bound: 2.036467675787346

Upper Bound: 5.915536593619048

Number of data in the std range: 8760

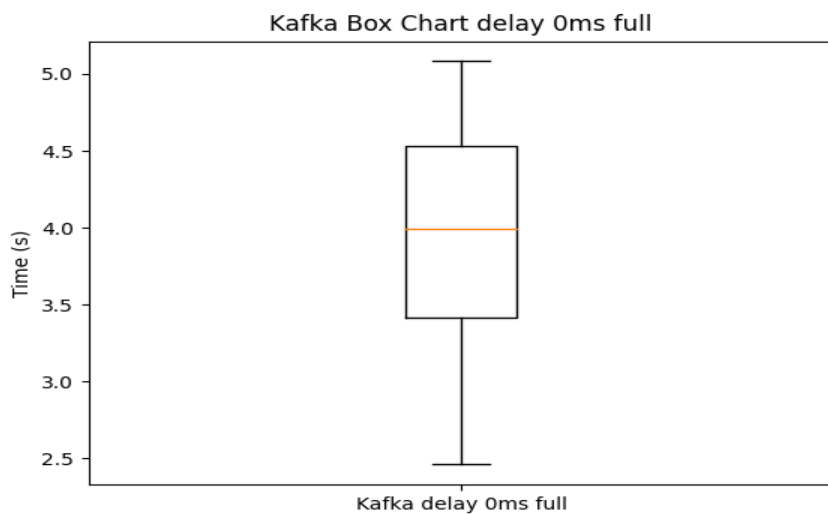
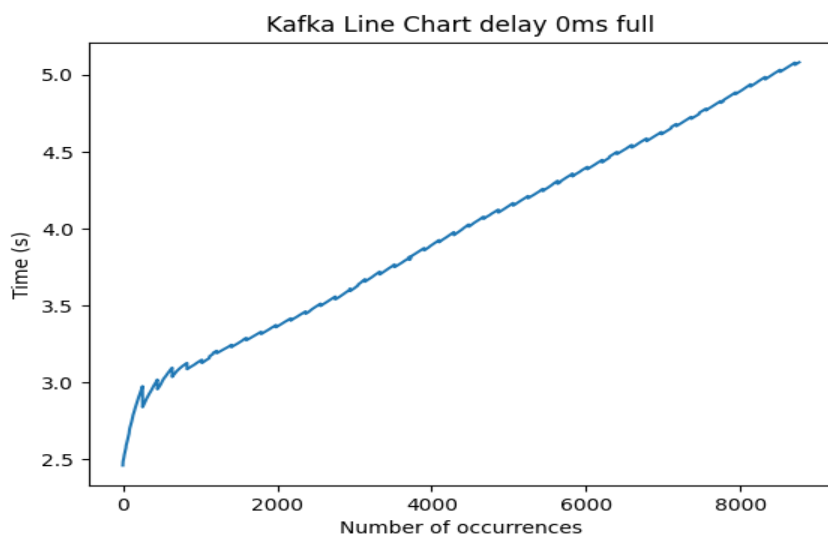
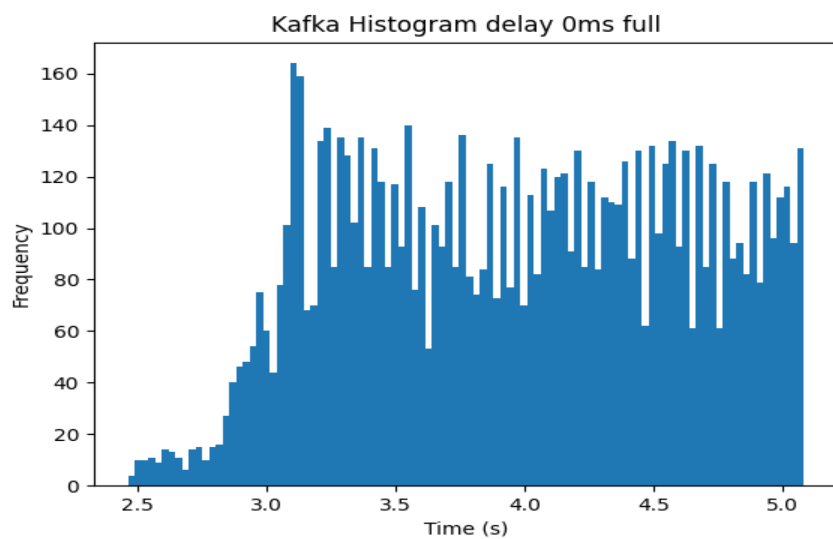
Number of data outside the std range: 0

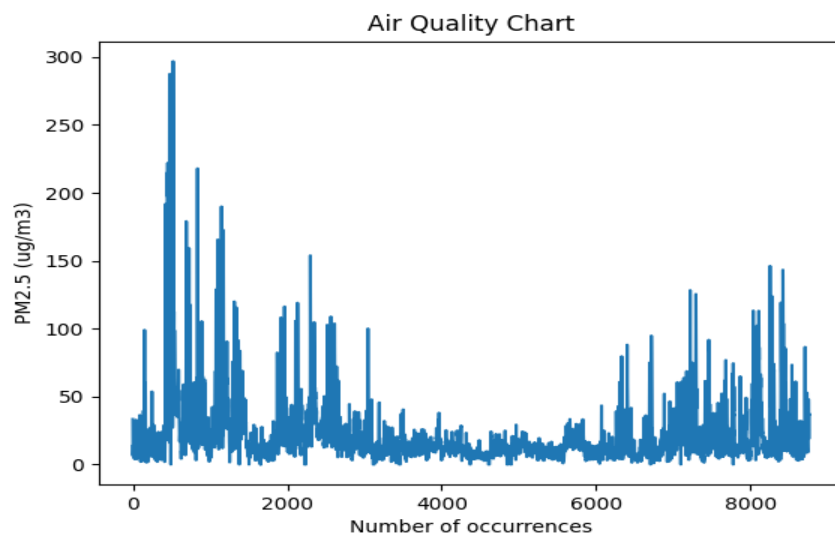
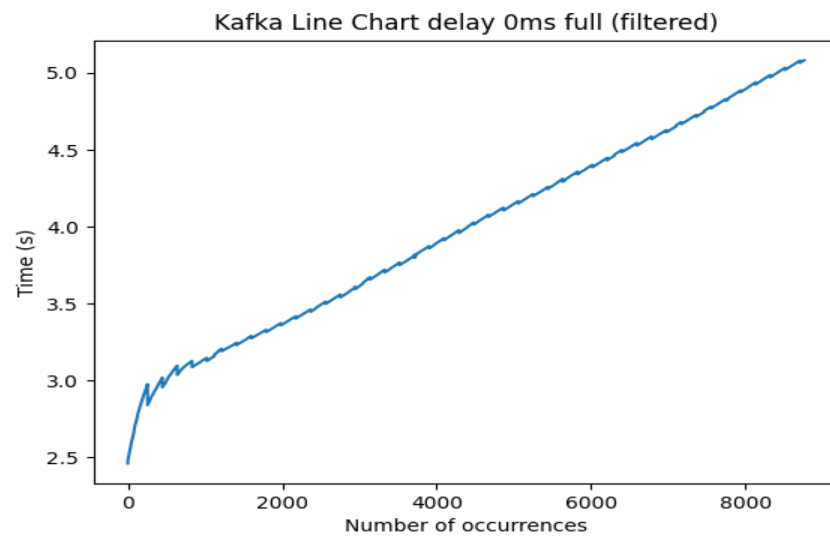
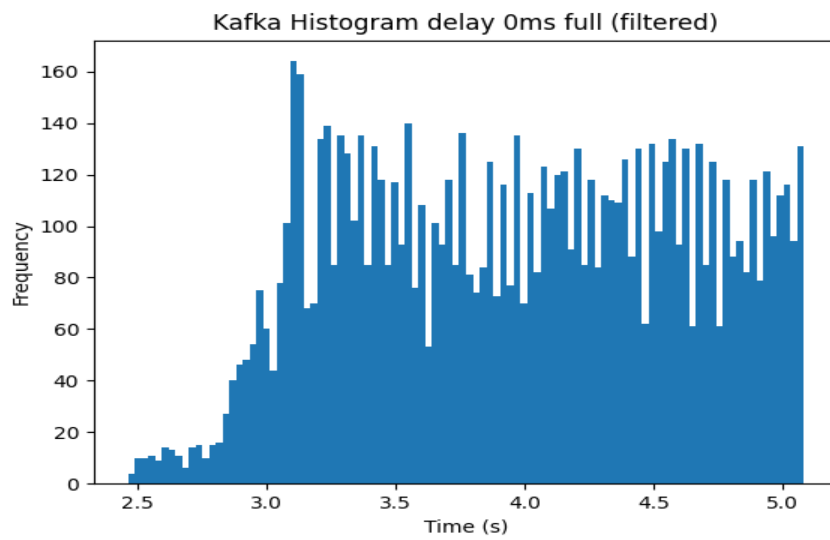
Kafka interquartile range

End Subtract Start: 1.1192250000000001

Kafka mean

End Subtract Start: 3.976002134703197





Kafka test setup (kafkaDelay0Half)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 4380

Number of tests performed: 20

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 6.3923749999999995

Kafka standard deviation

End Subtract Start: 0.3290838842288253

Lower Bound: 5.459677867861469

Upper Bound: 7.434181173234421

Number of data in the std range: 4380

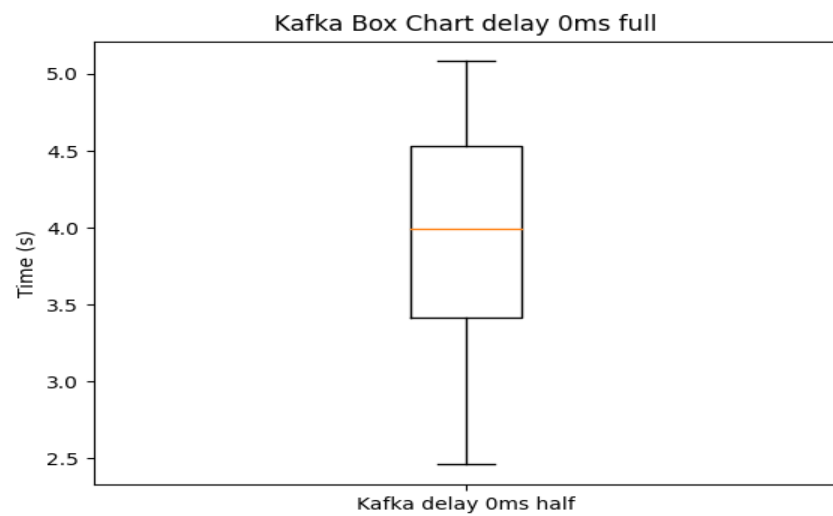
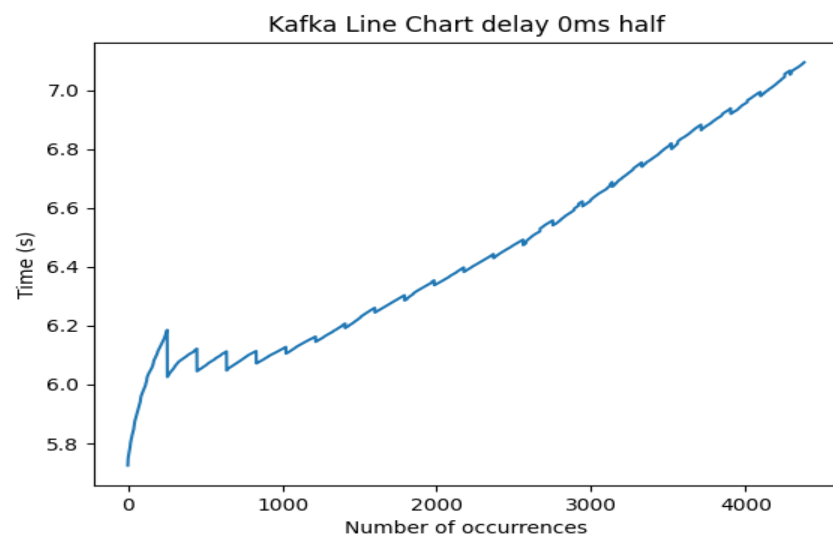
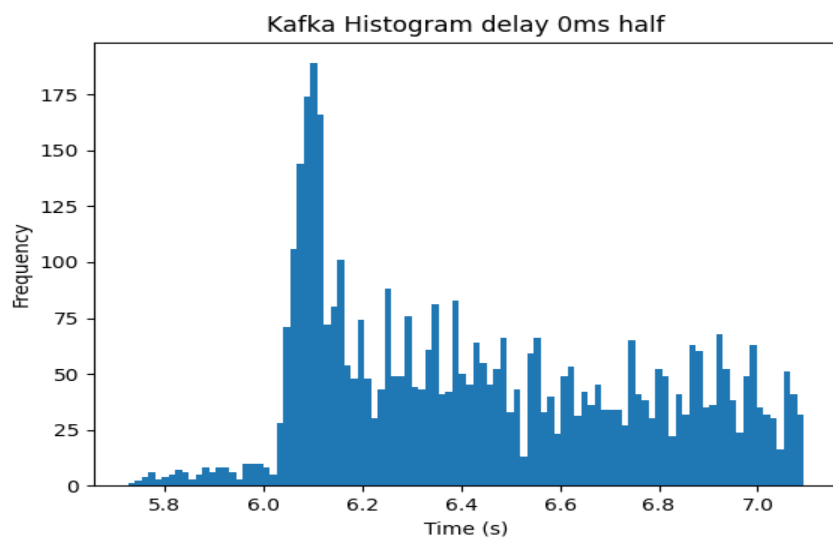
Number of data outside the std range: 0

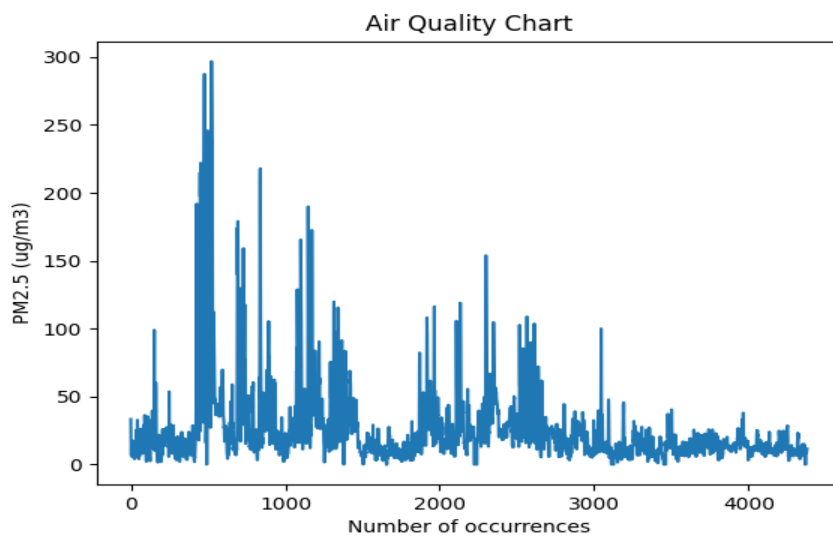
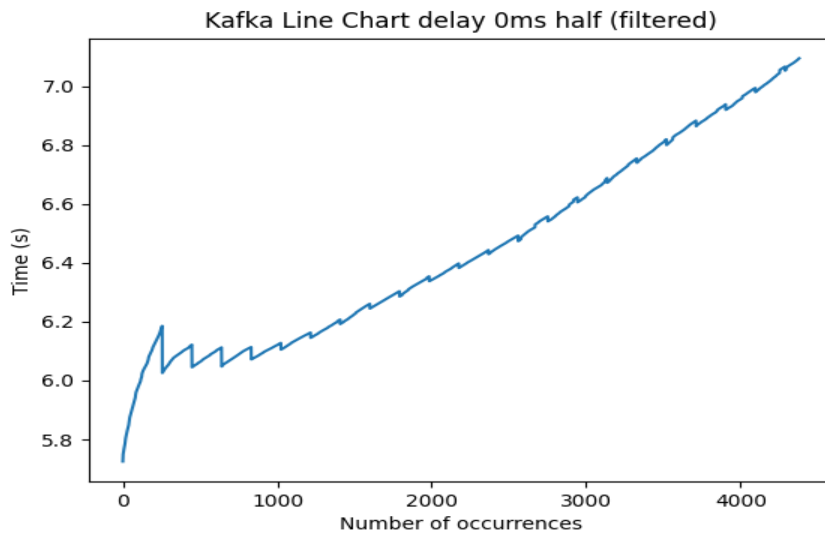
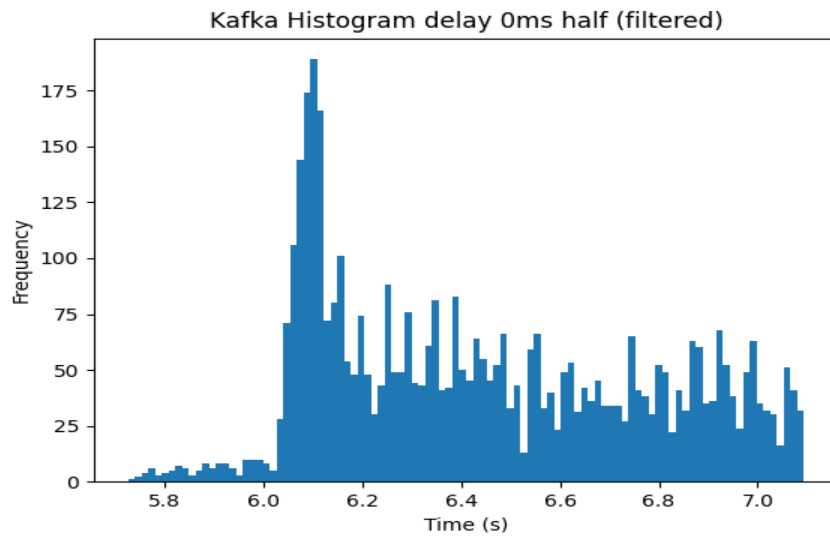
Kafka interquartile range

End Subtract Start: 0.5982624999999998

Kafka mean

End Subtract Start: 6.446929520547945





Spark test setup (sparkDelay3Full)

Technology: Spark Structured Streaming

Producer Delay (Send next message): 3ms

Full data set (qty): 8760

Number of tests performed: 20

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Spark median values

End Subtract Start: 0.7257

Spark standard deviation

End Subtract Start: 0.27339852932738384

Lower Bound: -0.050831329991283924

Upper Bound: 1.5895598459730191

Number of data in the std range: 8605

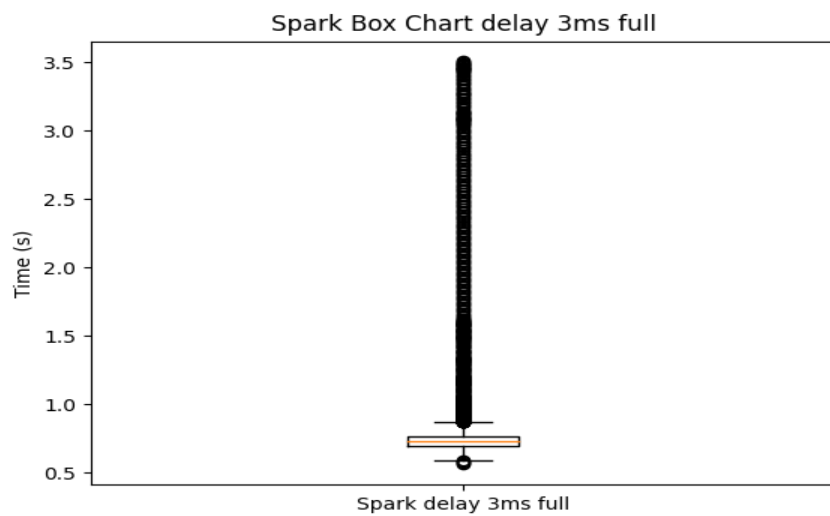
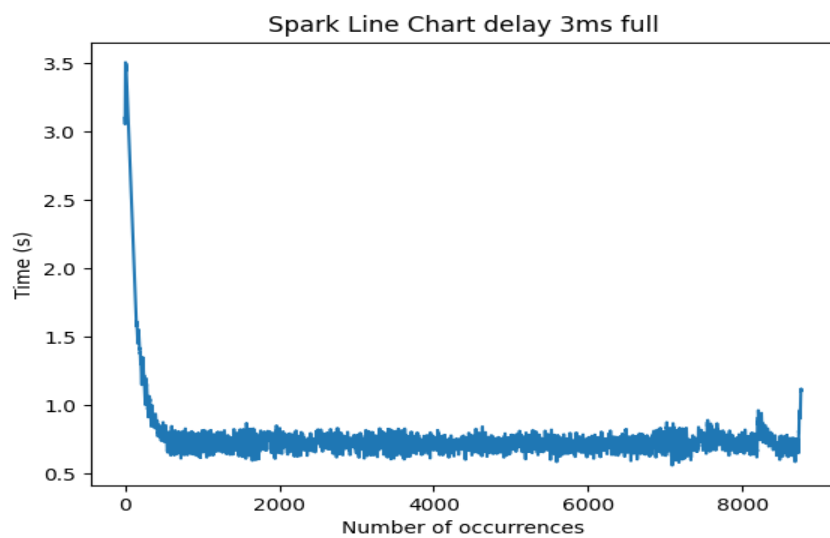
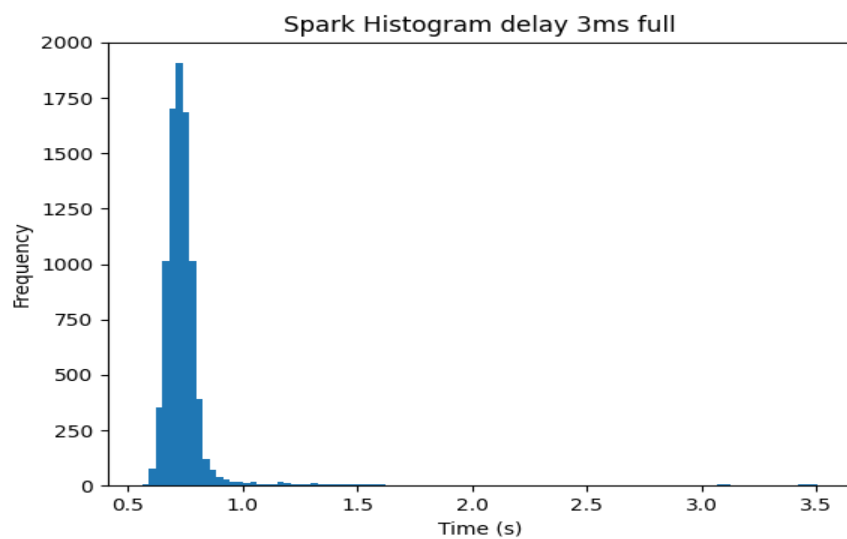
Number of data outside the std range: 155

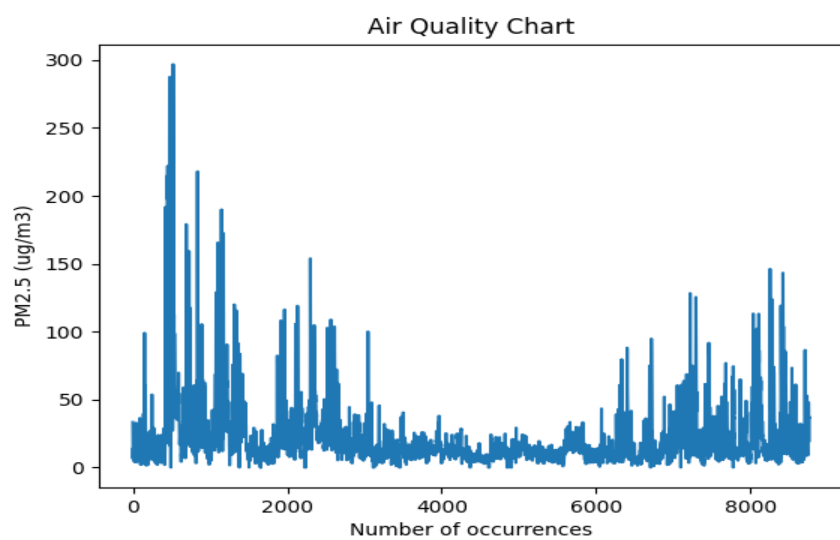
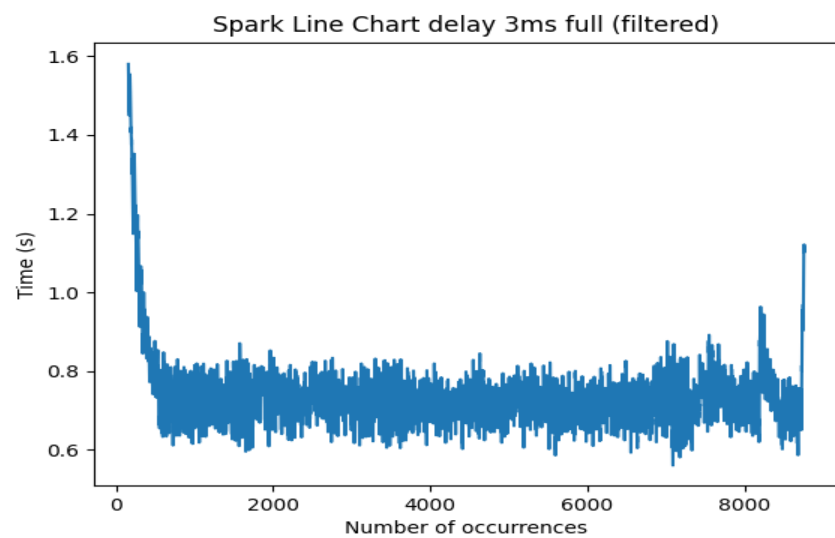
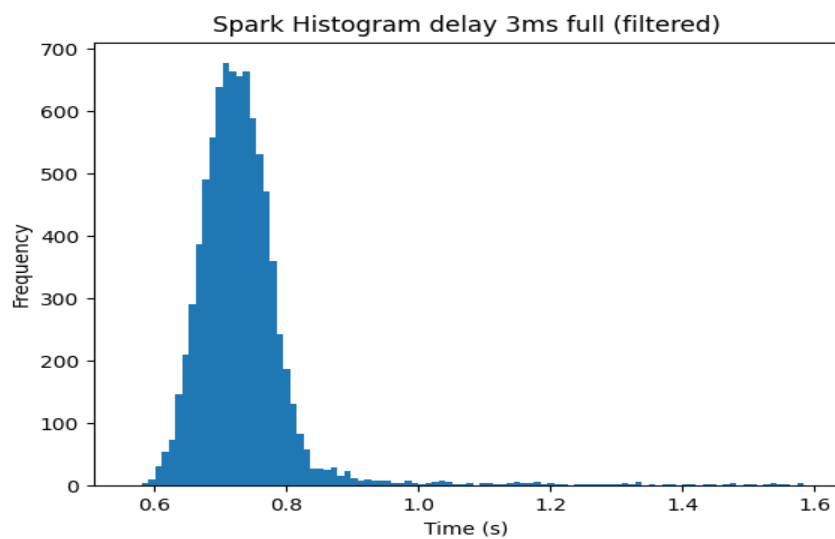
Spark interquartile range

End Subtract Start: 0.070662499999999996

Spark mean

End Subtract Start: 0.7693642579908676





Spark test setup (sparkDelay0Full)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 0ms
Full data set (qty): 8760
Number of tests performed: 20
Start: Timestamp from Producer
End: Timestamp from Consumer
Unit: The results are given in seconds

Spark median values

End Subtract Start: 5.3306249999999995

Spark standard deviation

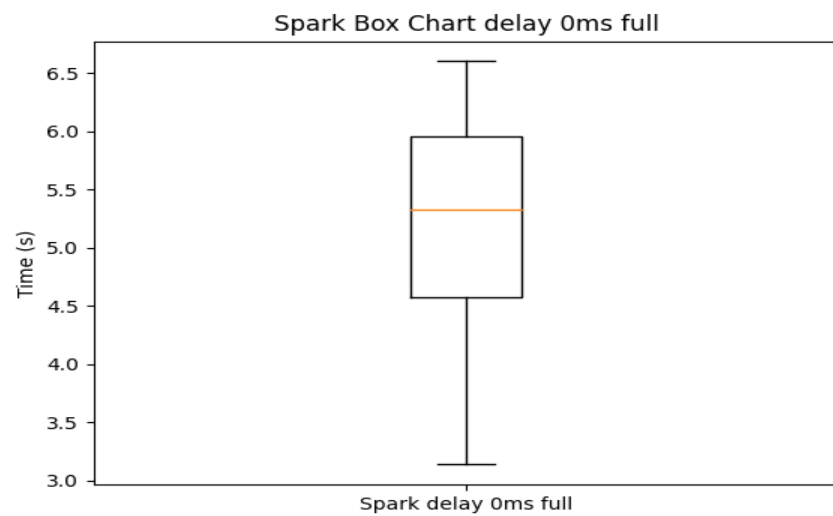
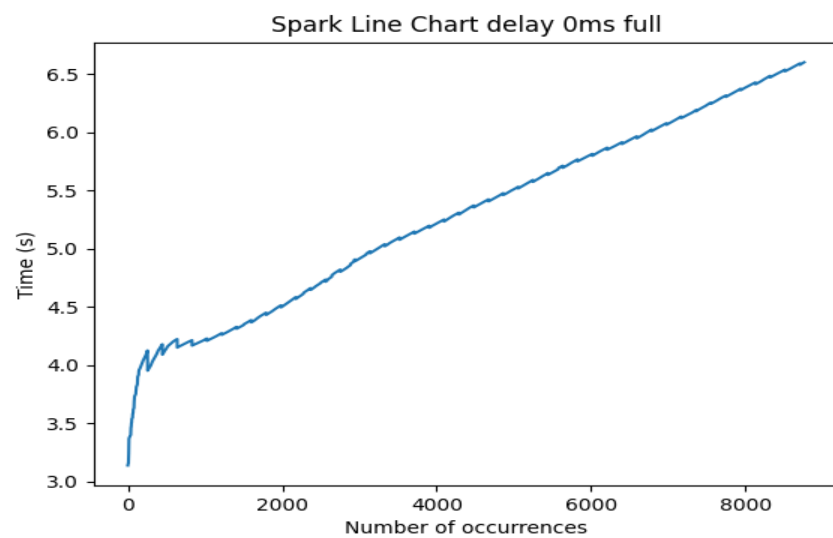
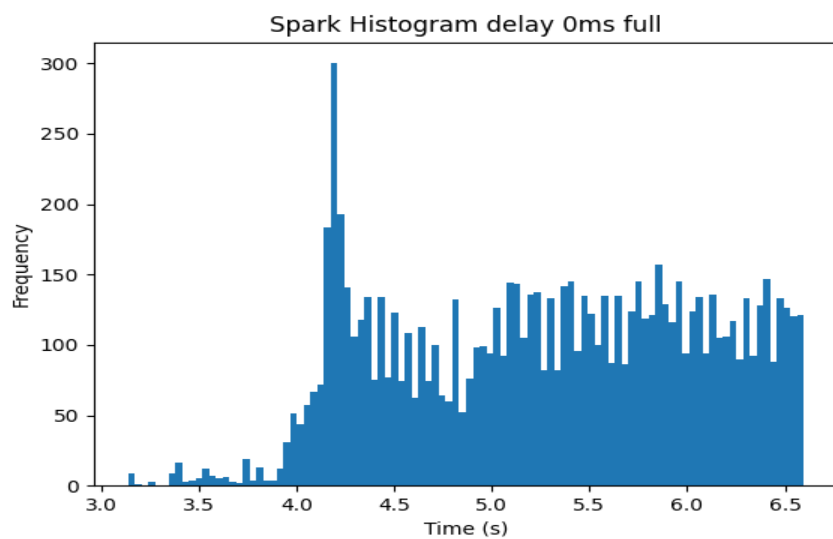
End Subtract Start: 0.7869281275634733
Lower Bound: 2.926091216624649
Upper Bound: 7.647659982005489
Number of data in the std range: 8760
Number of data outside the std range: 0

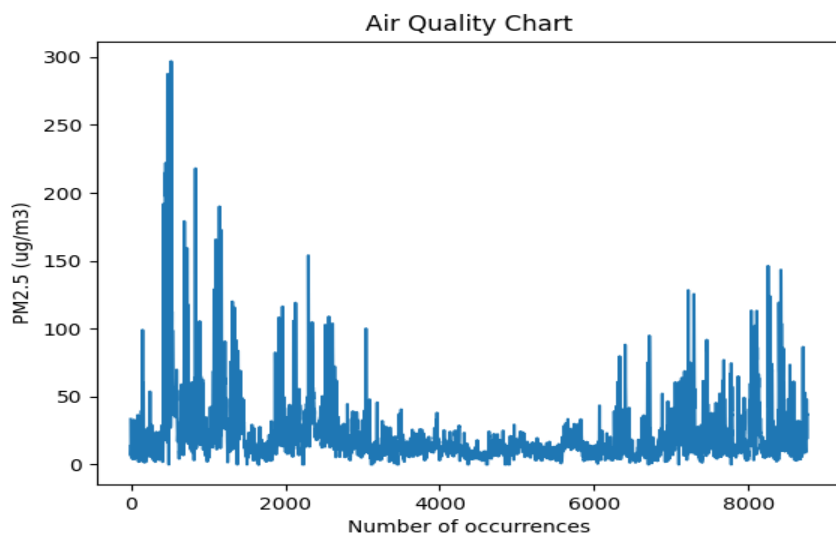
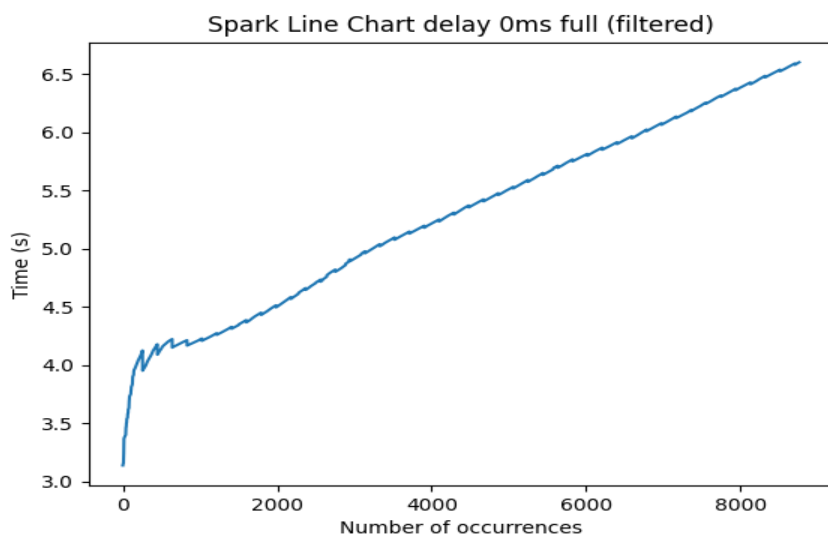
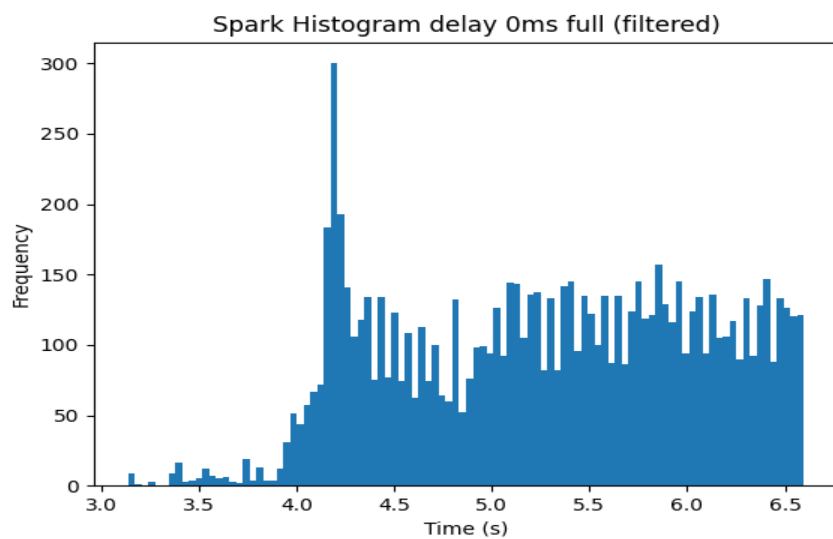
Spark interquartile range

End Subtract Start: 1.3726624999999997

Spark mean

End Subtract Start: 5.286875599315069





Spark test setup (sparkDelay0Half)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 0ms
Full data set (qty): 4380
Number of tests performed: 20
Start: Timestamp from Producer
End: Timestamp from Consumer
Unit: The results are given in seconds

Spark median values

End Subtract Start: 4.729724999999999

Spark standard deviation

End Subtract Start: 0.41458985732253595
Lower Bound: 3.5089364554296525
Upper Bound: 5.996475599364868
Number of data in the std range: 4375
Number of data outside the std range: 5

Spark interquartile range

End Subtract Start: 0.74241249999999986

Spark mean

End Subtract Start: 4.75270602739726

