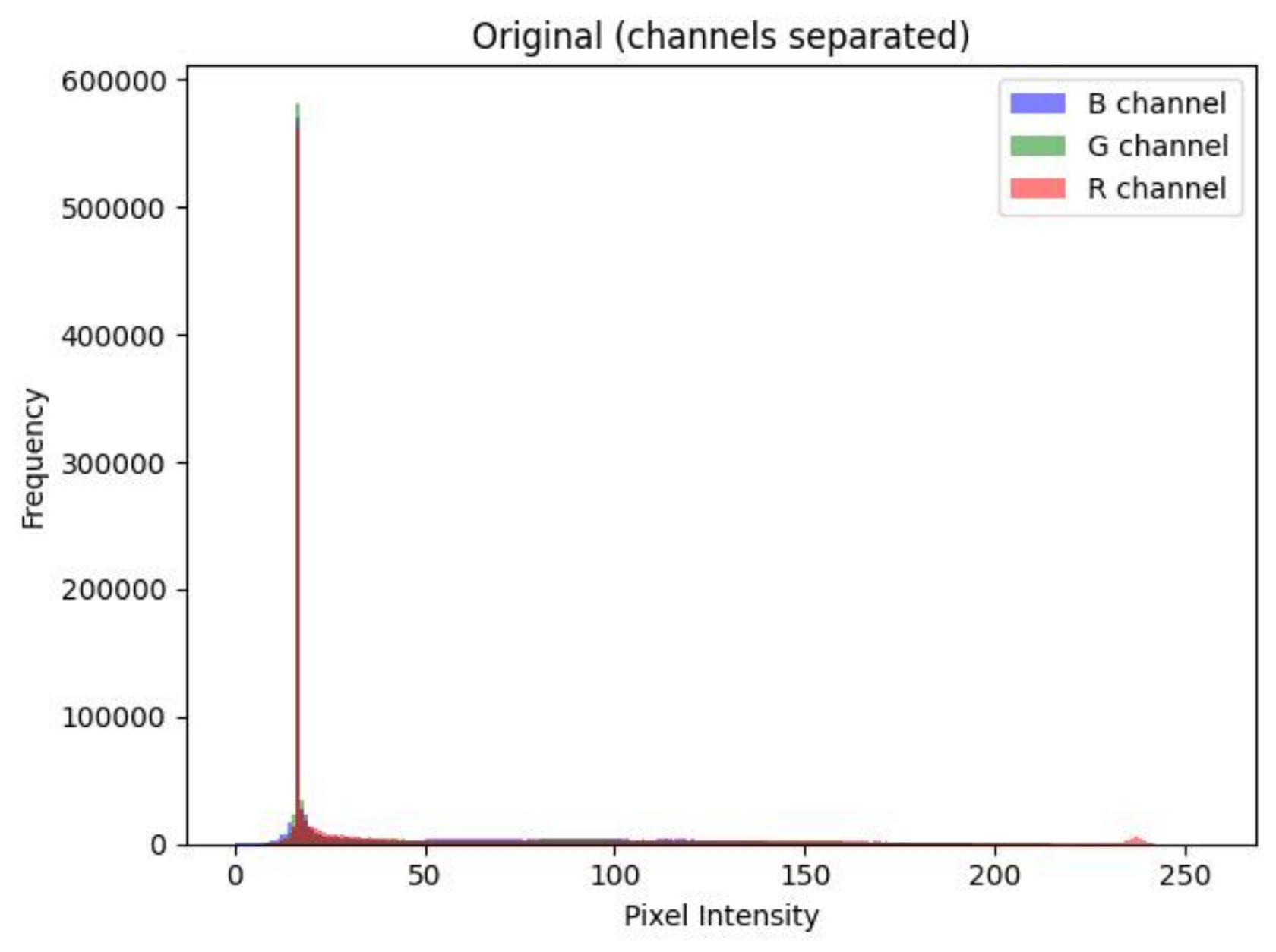
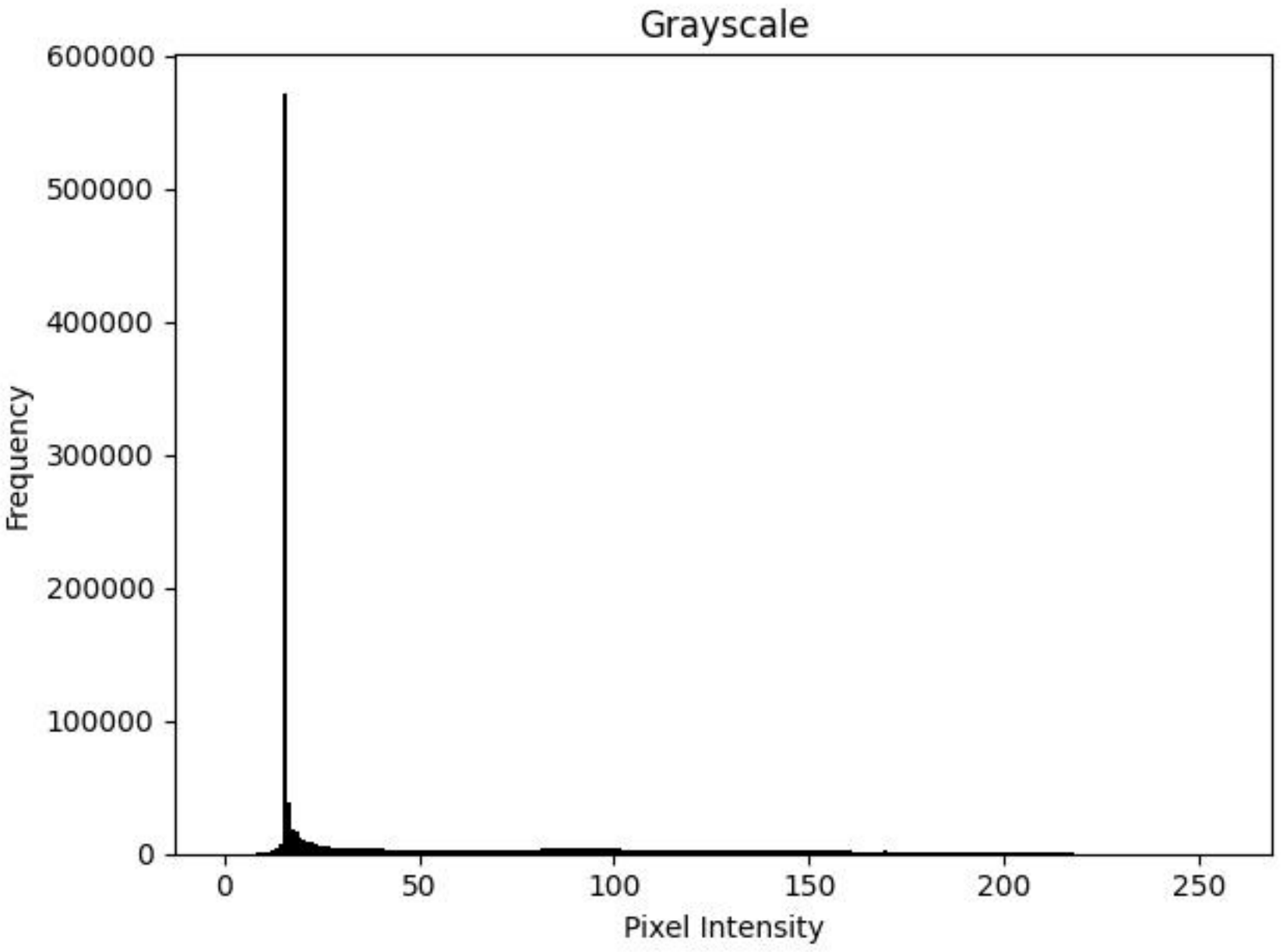
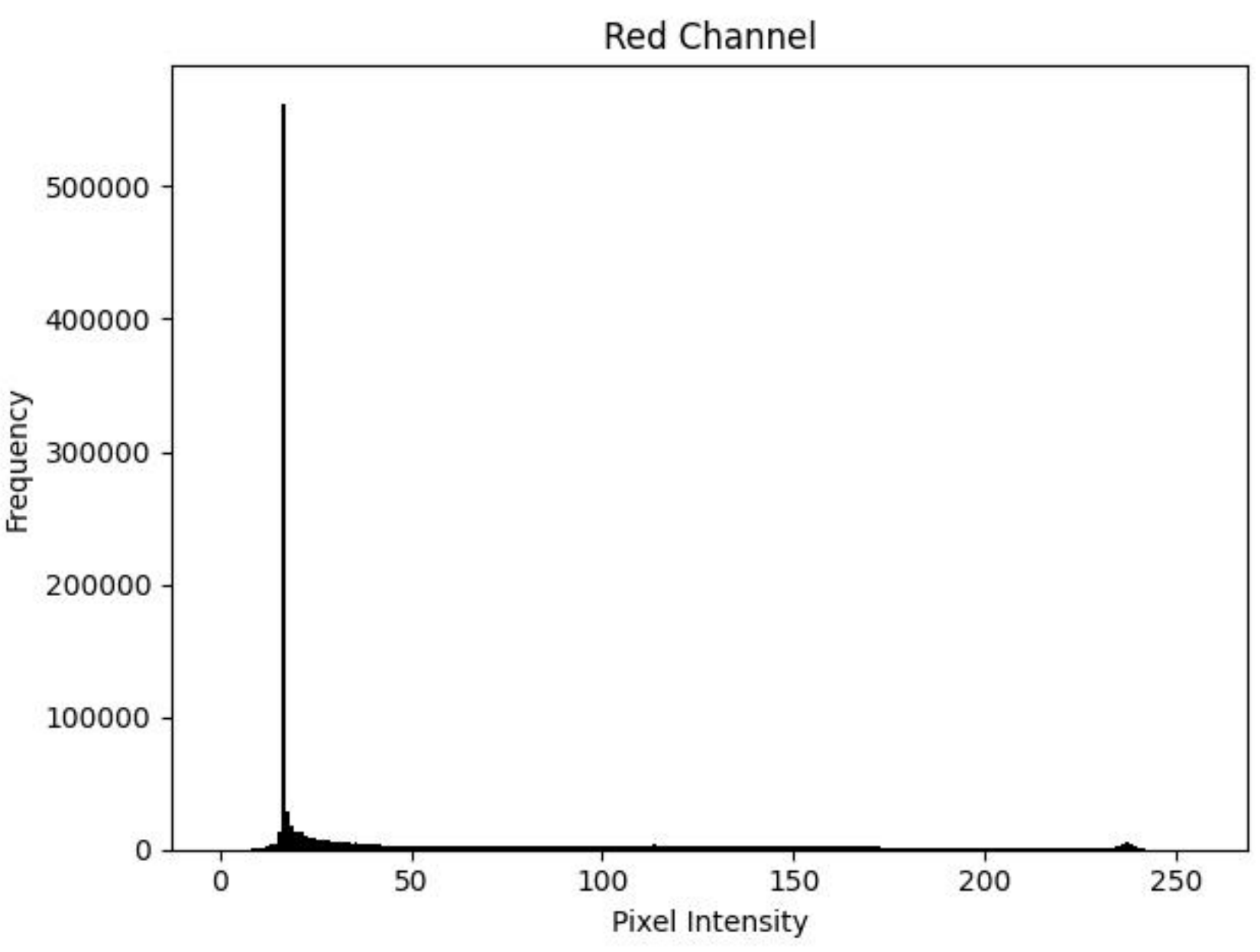
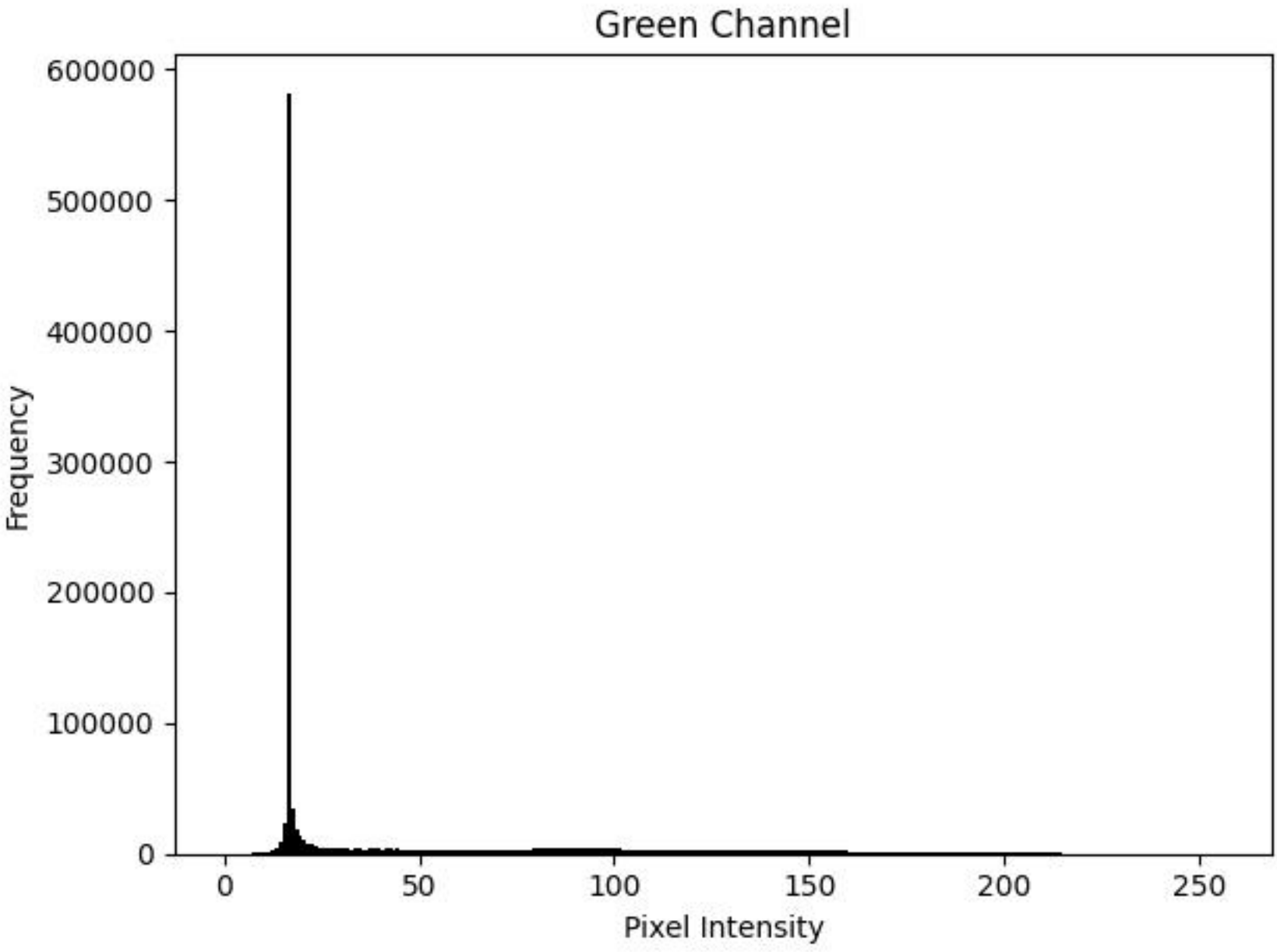
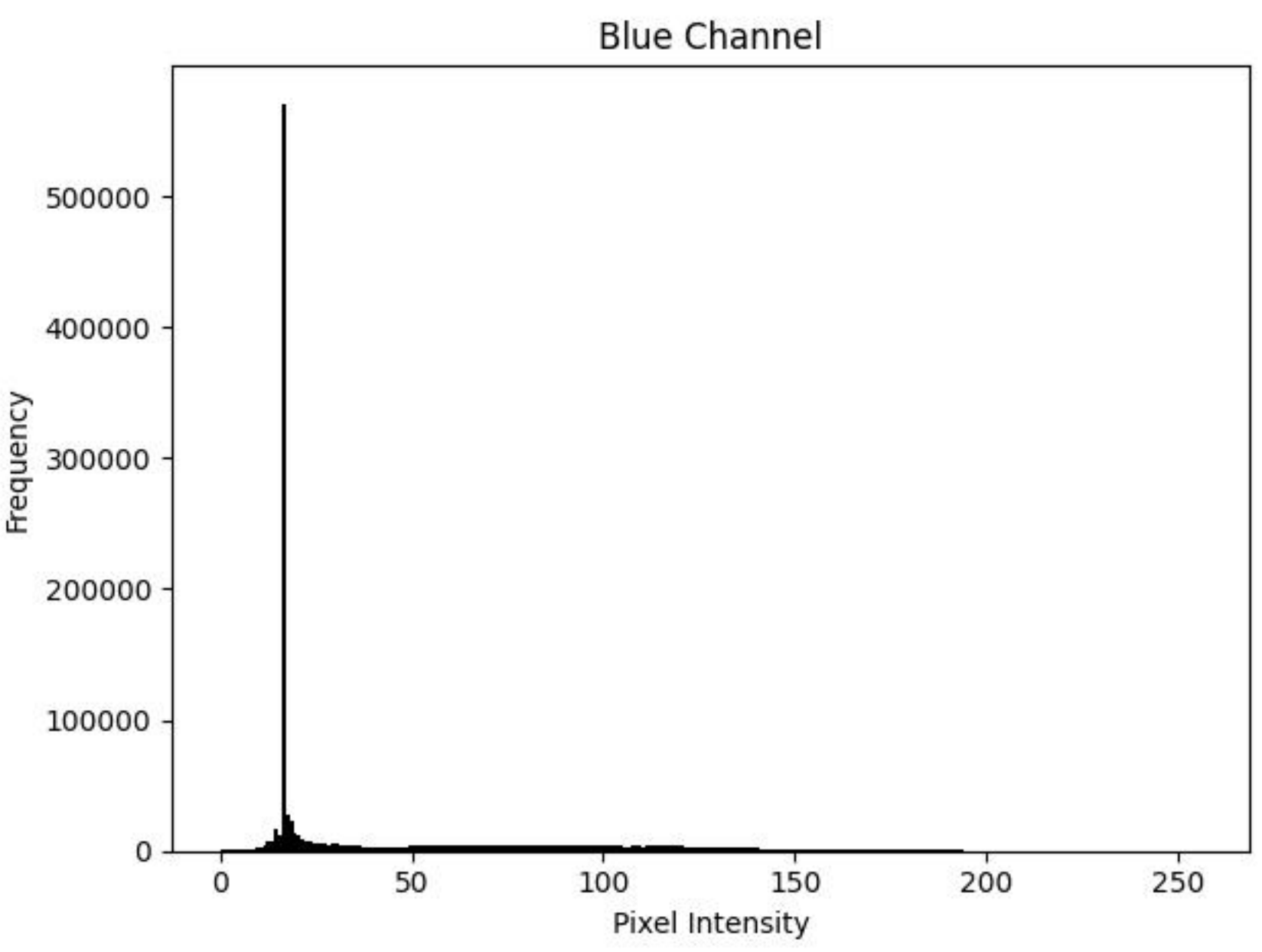

Original (channels separated)
B channel
G channel
R channel
600000
500000
400000
300000
200000
100000
0
Frequency
0
50
100
150
200
250
Pixel Intensity


Grayscale
600000
500000
400000
300000
200000
100000
0
Frequency
0
50
100
150
200
250
Pixel Intensity

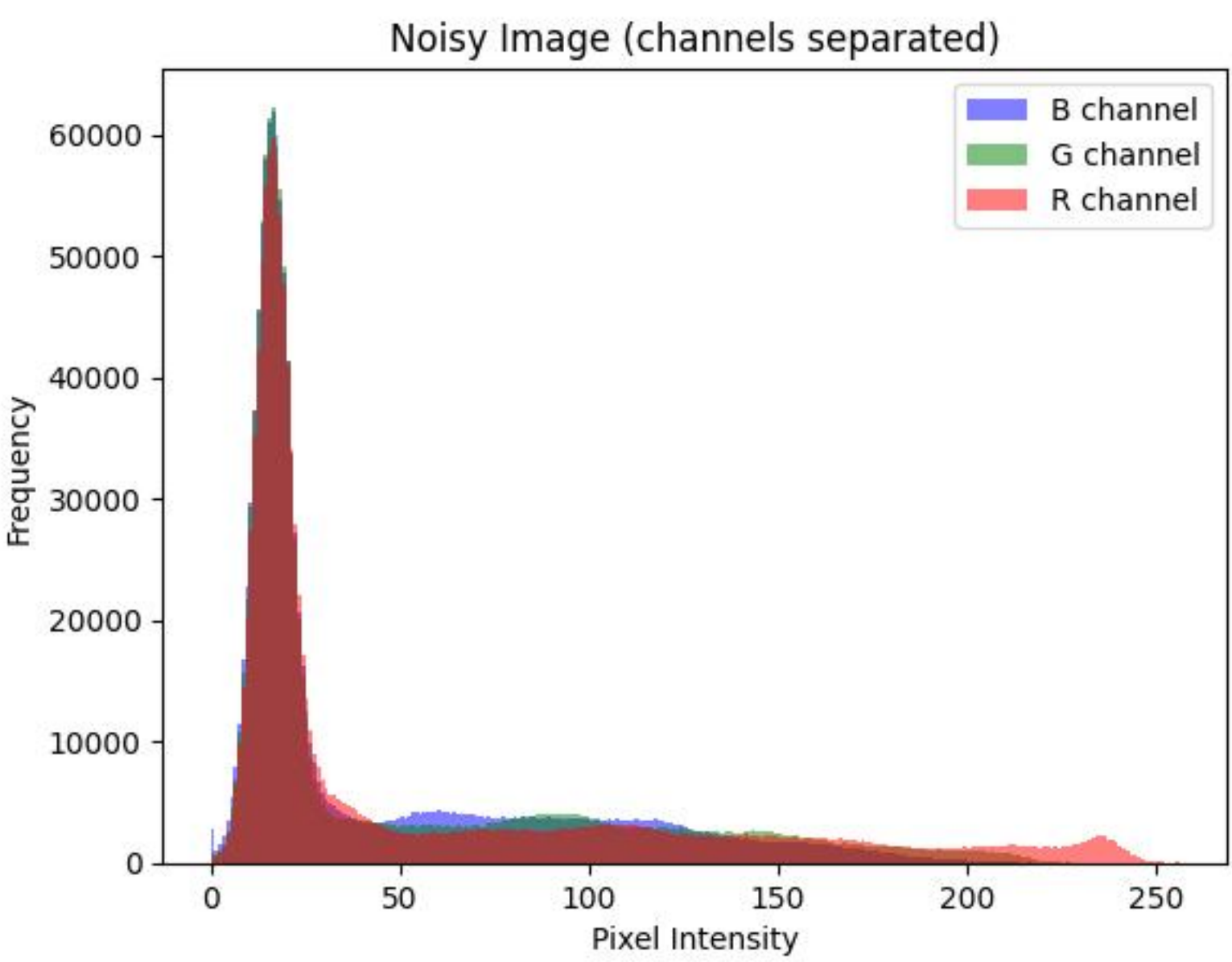

Red Channel
500000
400000
300000
200000
100000
0
Frequency
0
50
100
150
200
250
Pixel Intensity

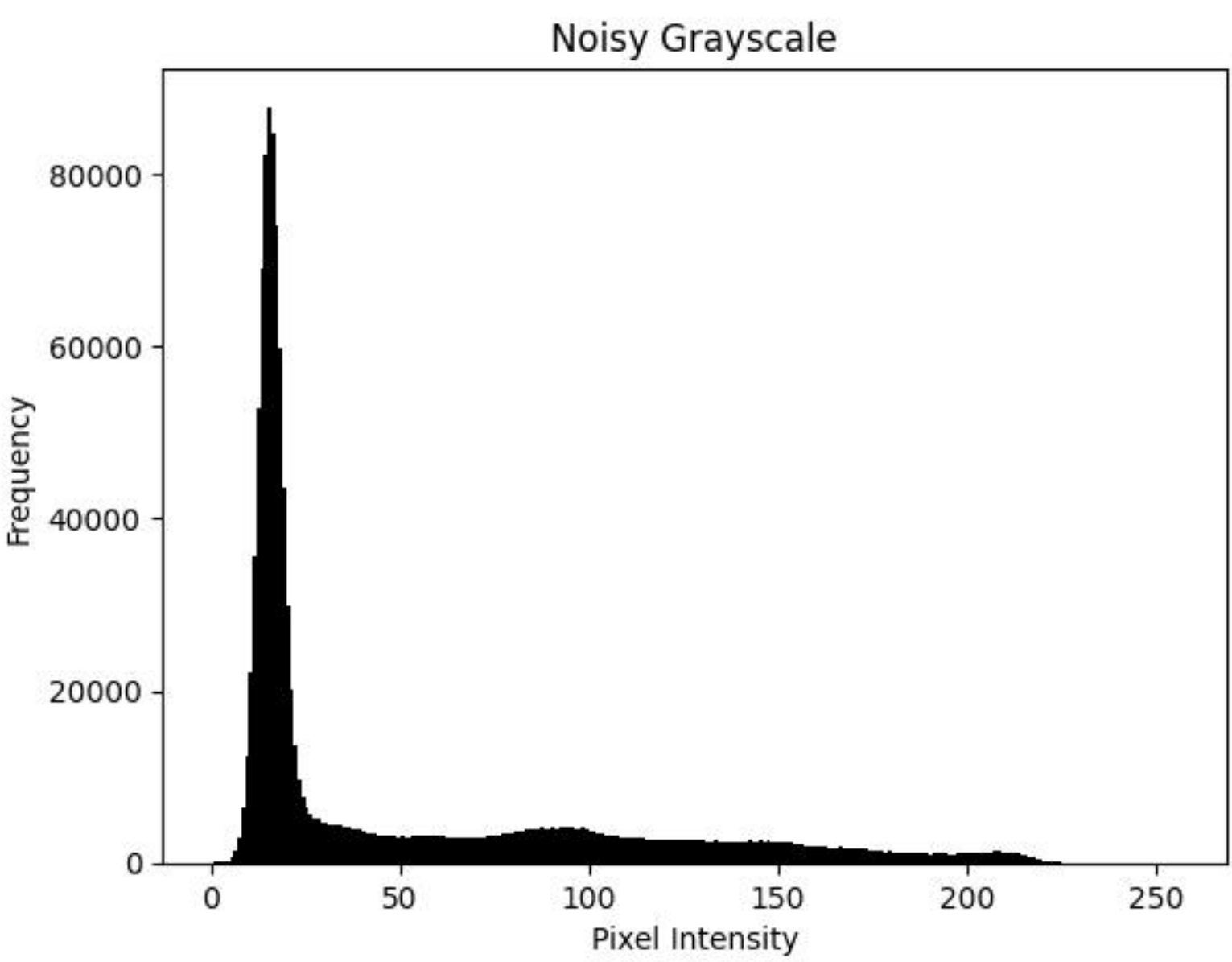

Green Channel
600000
500000
400000
300000
200000
100000
0
Frequency
0
50
100
150
200
250
Pixel Intensity

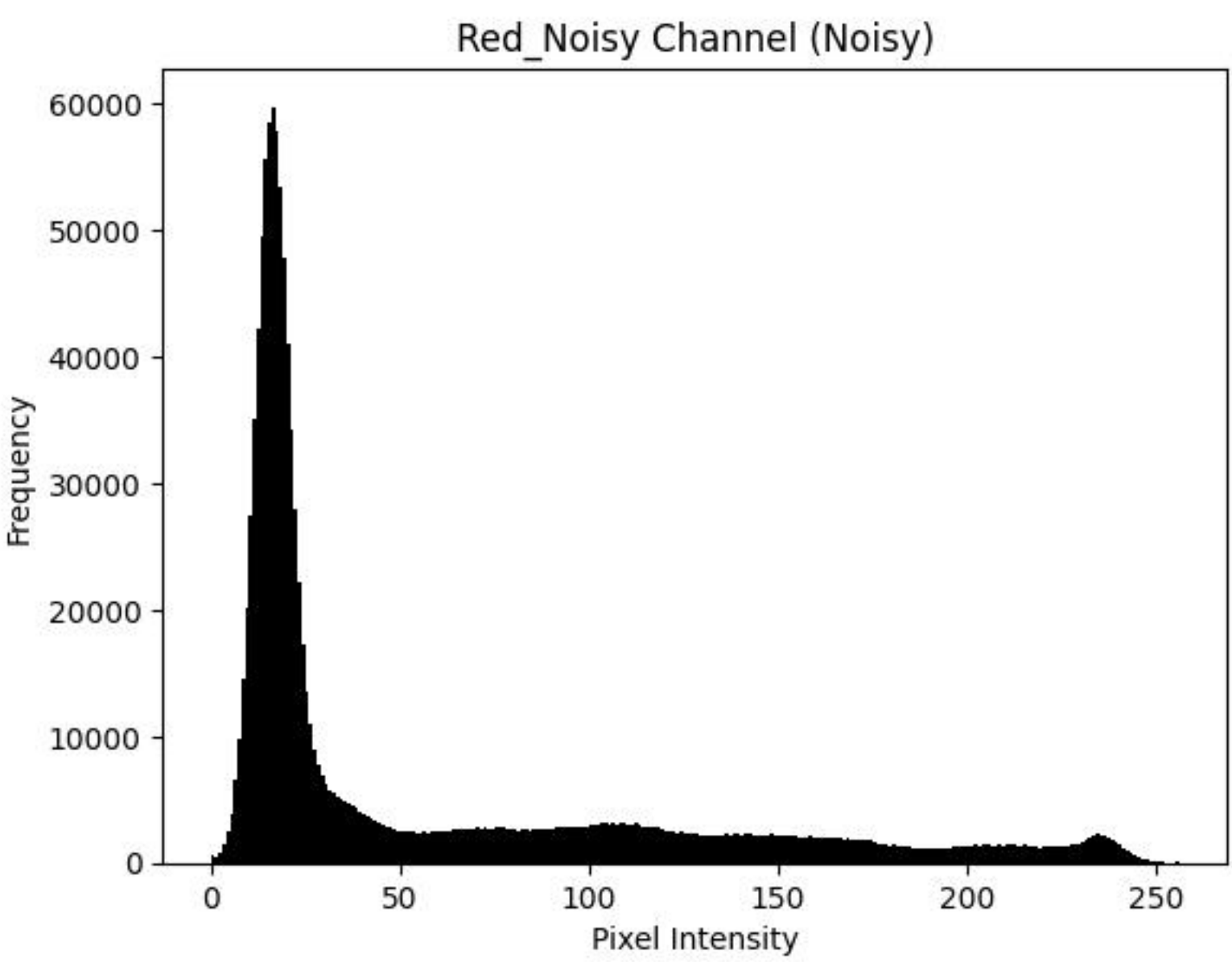

Blue Channel
Frequency
500000
400000
300000
200000
100000
0
0
50
100
150
200
250
Pixel Intensity

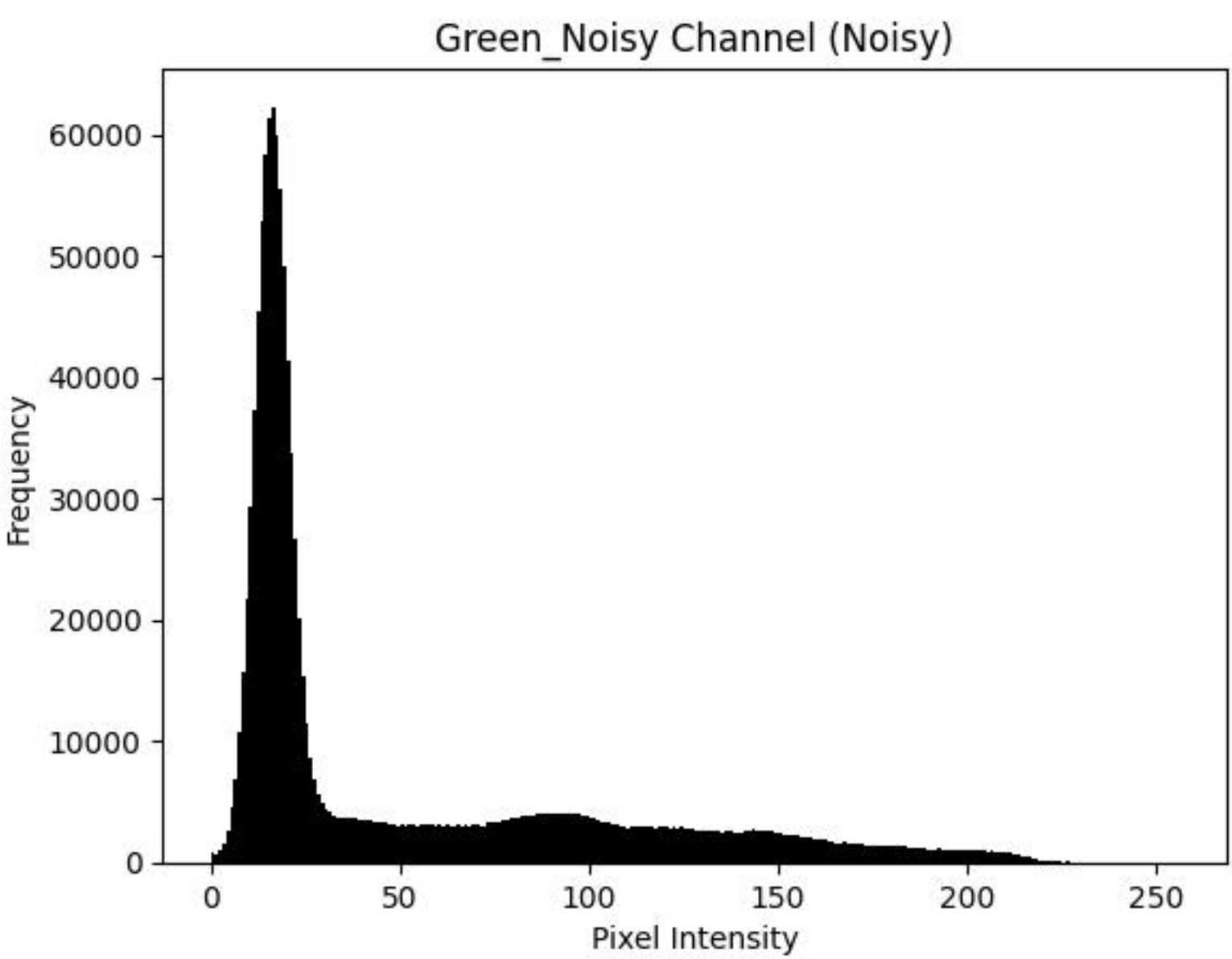
Noisy Image

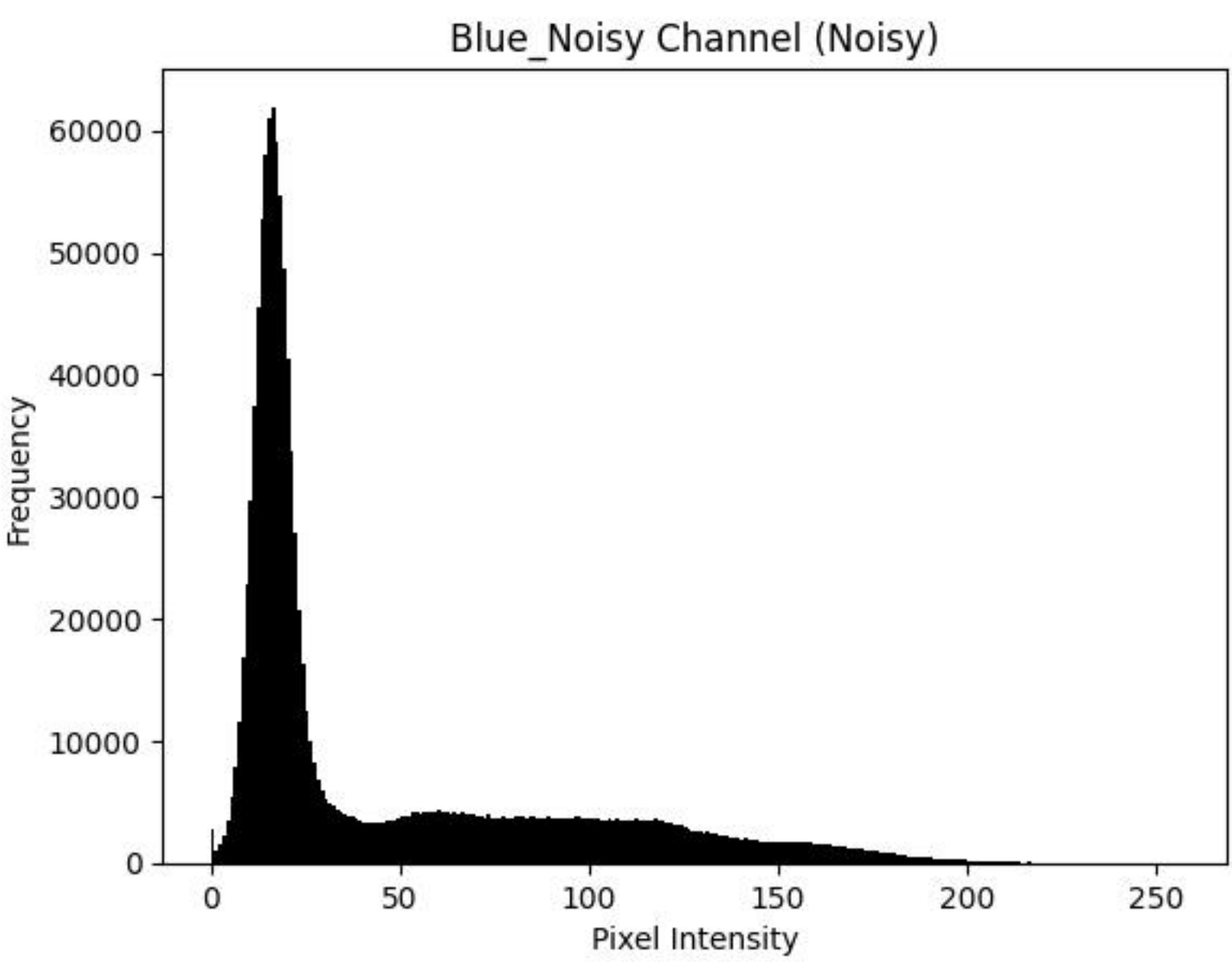
Grayscale Noisy Image


Noisy Image (channels separated)
B channel
G channel
R channel
60000
50000
40000
30000
20000
10000
0
Frequency
0
50
100
150
200
250
Pixel Intensity


Noisy Grayscale
Frequency
80000
60000
40000
20000
0
0
50
100
150
200
250
Pixel Intensity


Red_Noisy Channel (Noisy)
Frequency
Pixel Intensity
0
10000
20000
30000
40000
50000
60000
0
50
100
150
200
250


Green_Noisy Channel (Noisy)
Frequency
60000
50000
40000
30000
20000
10000
0
0
50
100
150
200
250
Pixel Intensity


Blue_Noisy Channel (Noisy)
Frequency
Pixel Intensity
0
10000
20000
30000
40000
50000
60000
0
50
100
150
200
250

Original Image

Grayscale Image

Mean Filter 3x3 (Clean)

Mean Filter 3x3 (Noisy)

Sobel Edge 3x3 (Clean)

Sobel Edge 3x3 (Noisy)

Sobel Horizontal 3x3 (Clean)

Sobel Vertical 3x3 (Clean)

Laplacian Edge 3x3 (Clean)

Laplacian Edge 3x3 (Noisy)

Mean Filter 5x5 (Clean)

Mean Filter 5x5 (Noisy)

Sobel Edge 5x5 (Clean)

Sobel Edge 5x5 (Noisy)

Sobel Horizontal 5x5 (Clean)

Sobel Vertical 5x5 (Clean)

Laplacian Edge 5x5 (Clean)

Laplacian Edge 5x5 (Noisy)

Mean Filter 7x7 (Clean)

Mean Filter 7x7 (Noisy)

Sobel Edge 7x7 (Clean)

Sobel Edge 7x7 (Noisy)

Sobel Horizontal 7x7 (Clean)

Sobel Vertical 7x7 (Clean)

Laplacian Edge 7x7 (Clean)

Laplacian Edge 7x7 (Noisy)

Canny Edge (Clean)

Canny Edge (Noisy)