

Laser Test

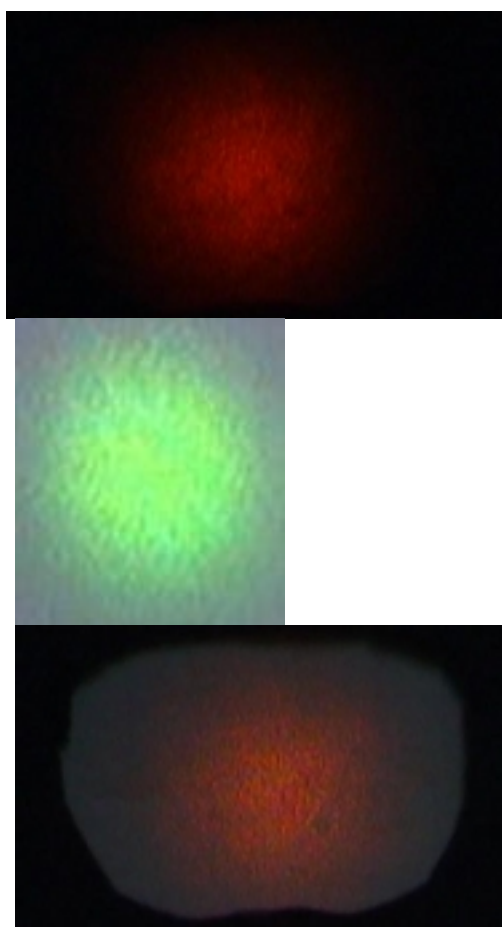
To strengthen the conclusion in 3) that the image of the ball of light is not the result of an image produced by a laser, was first characterized the response of the CCD camera at three different laser wavelengths :
 λ
=
635.6
nm
(
red),
 λ
=
543
nm
(
green) and
 λ
=
594
nm
(yellow
-
orange).
The
images
were

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projected
on
a
white
background
.

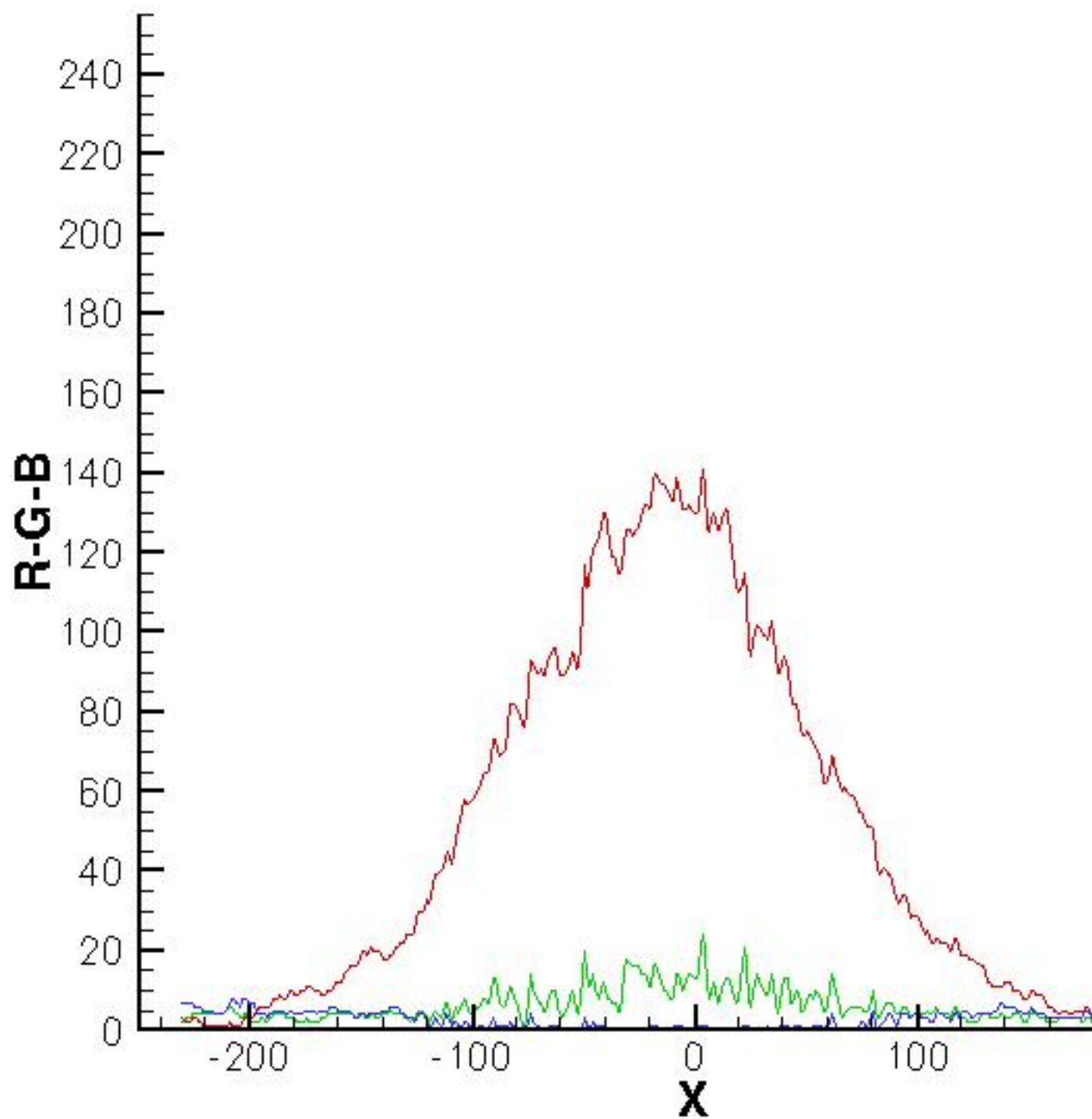


The results of RGB analysis are shown in the figures below.

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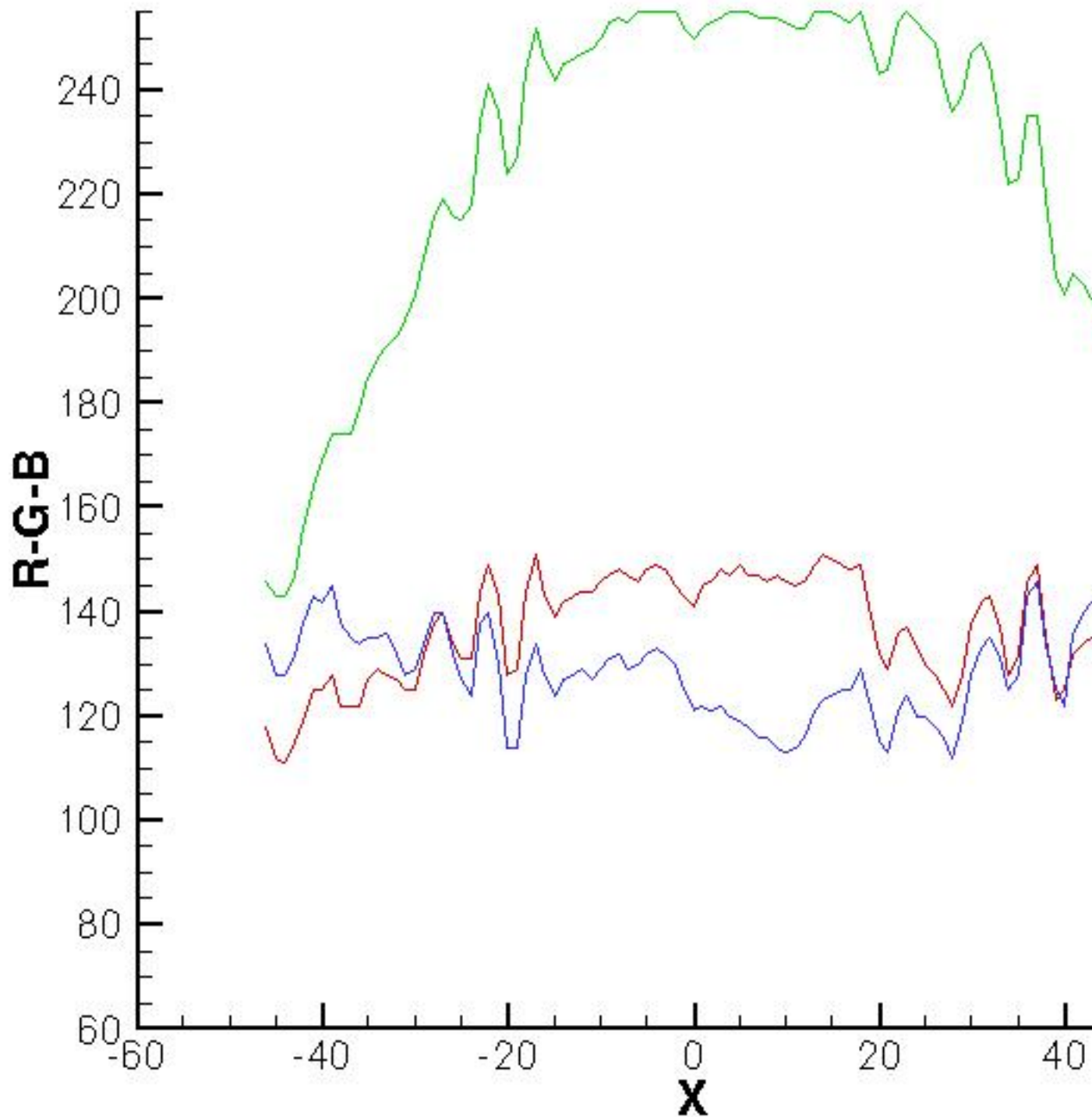
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RGB red laser analysis

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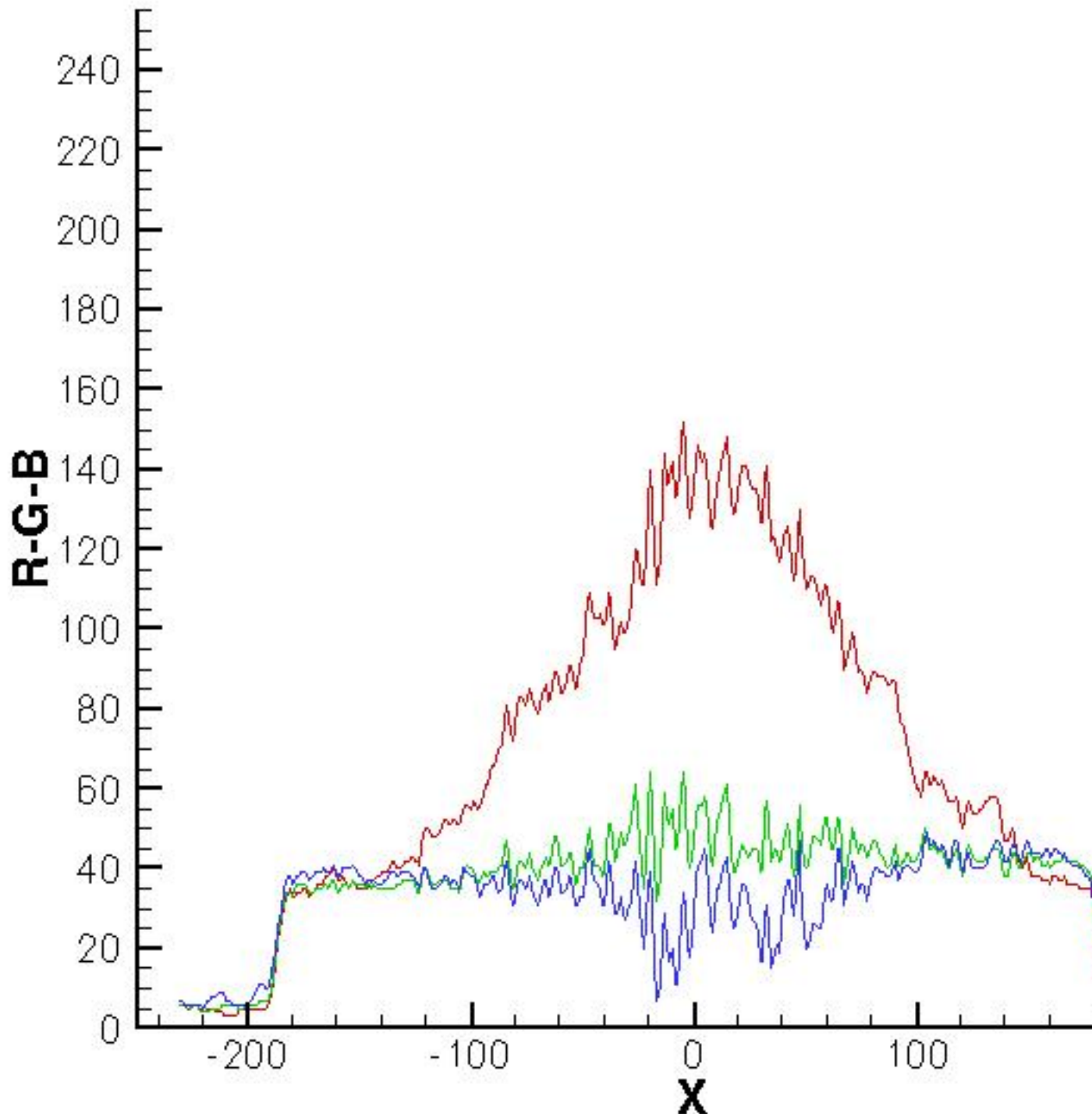


RGB green laser analysis

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RGB yellow-orange laser analysis

The response of the CCD to the green laser is very satisfactory being the dominant component of G, only the response to the laser yellow-orange, shows the dominant components R and G, with a low response to the blue component. The projection of the image of the red laser in the same area and

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backgrounds
backgrounds
backgrounds

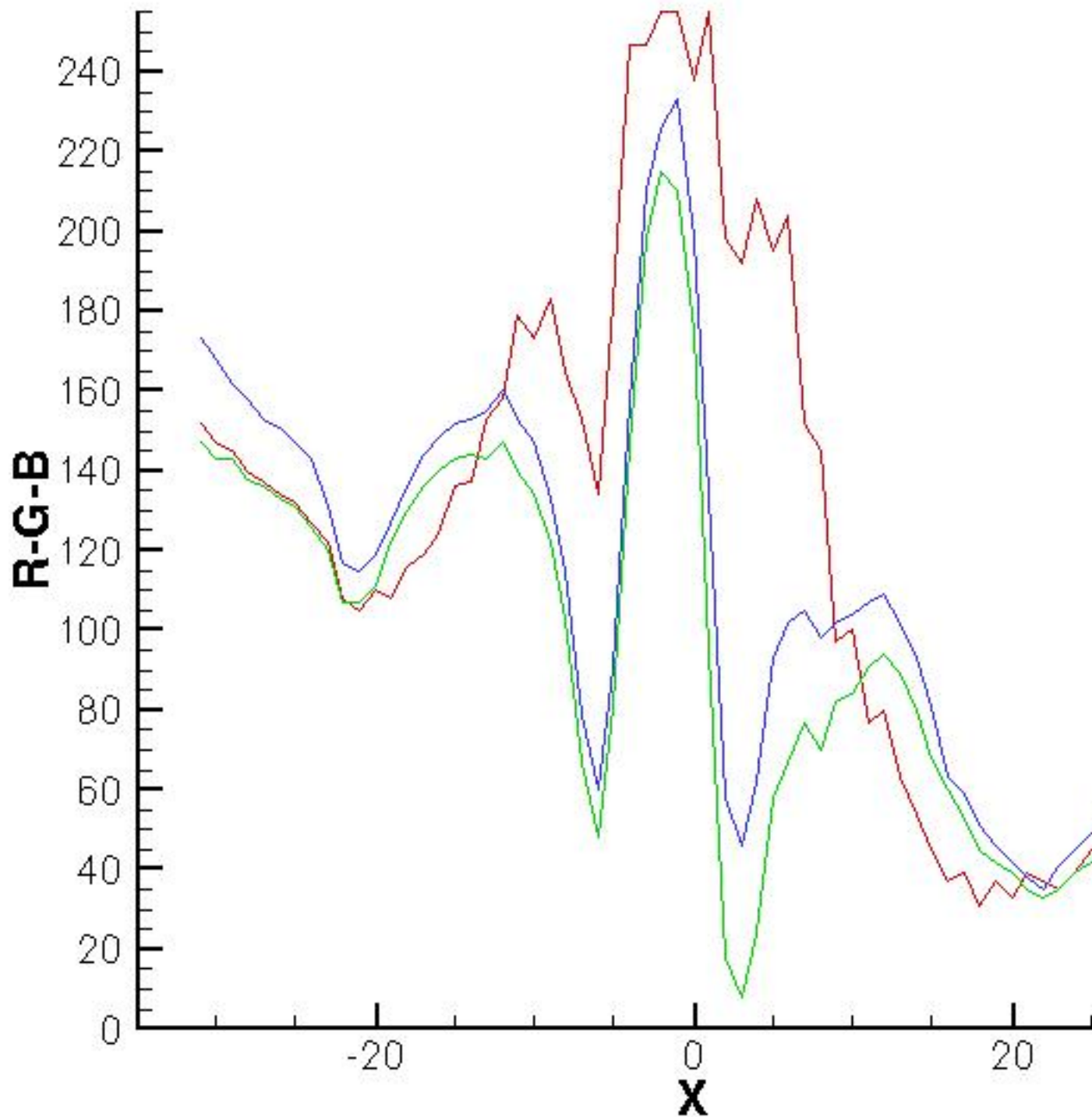


RGB analysis

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Non-turbulent water layer background

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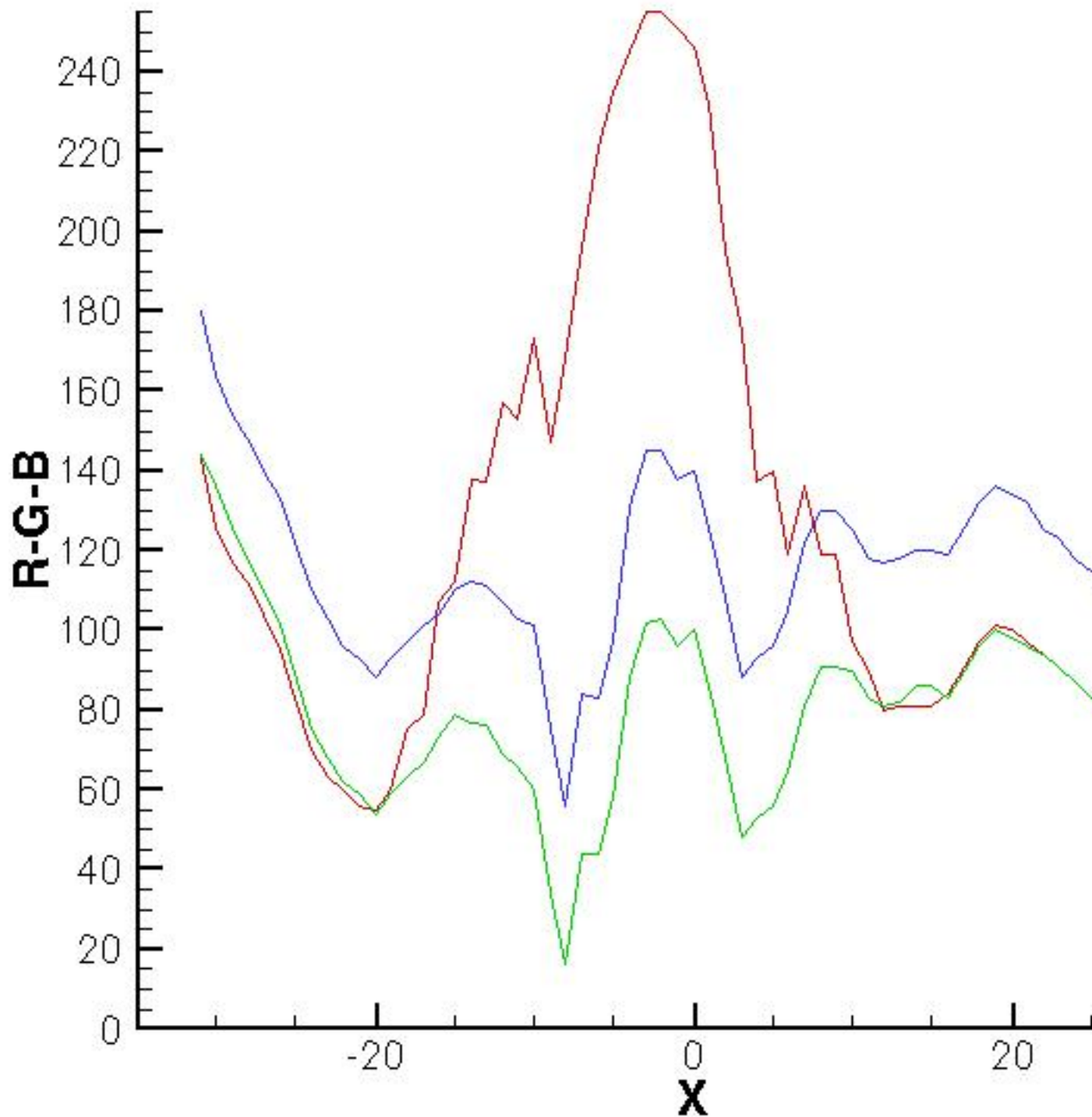


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Turbulent water background (saturation for R)

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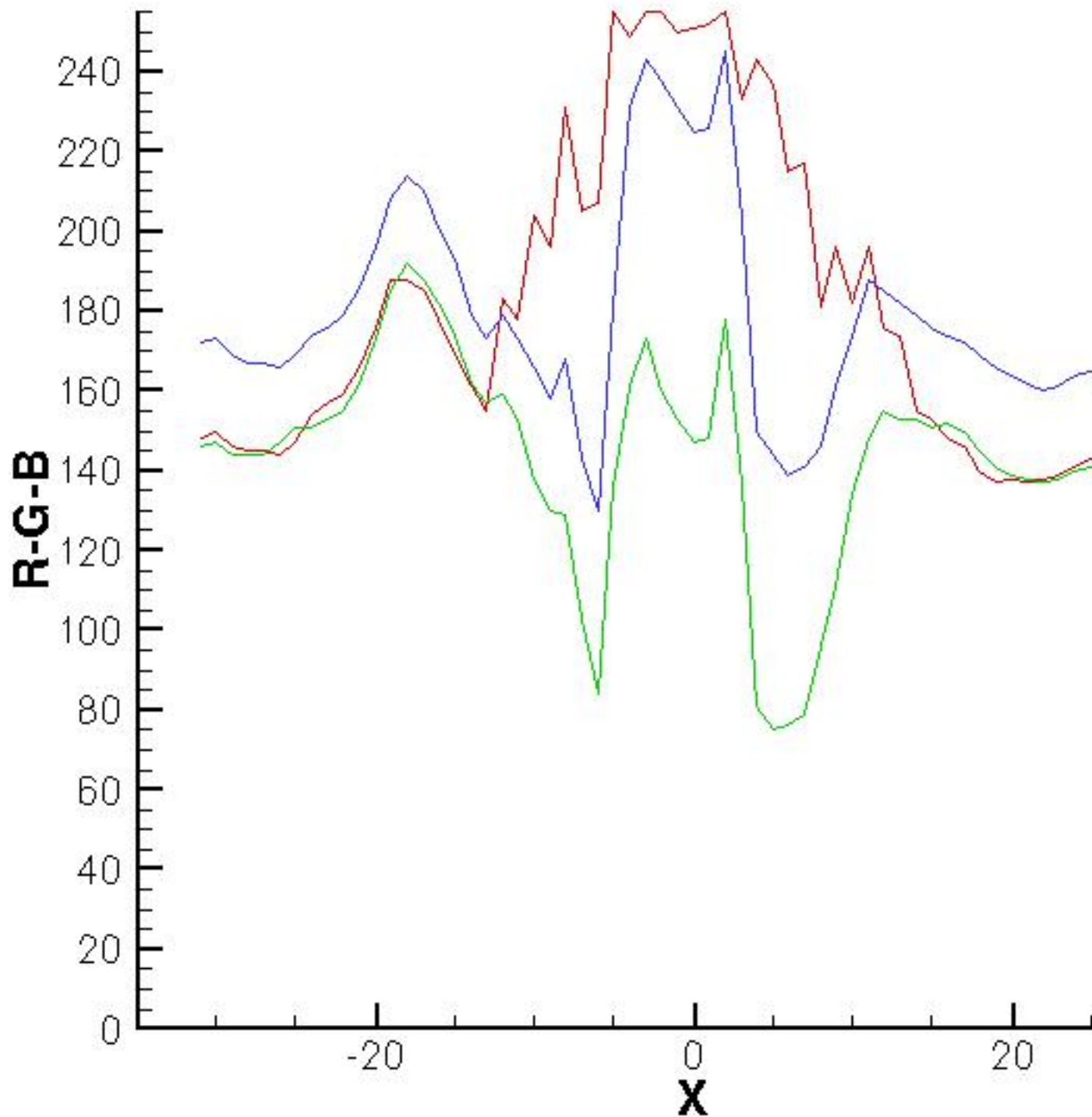


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Turbulent water background

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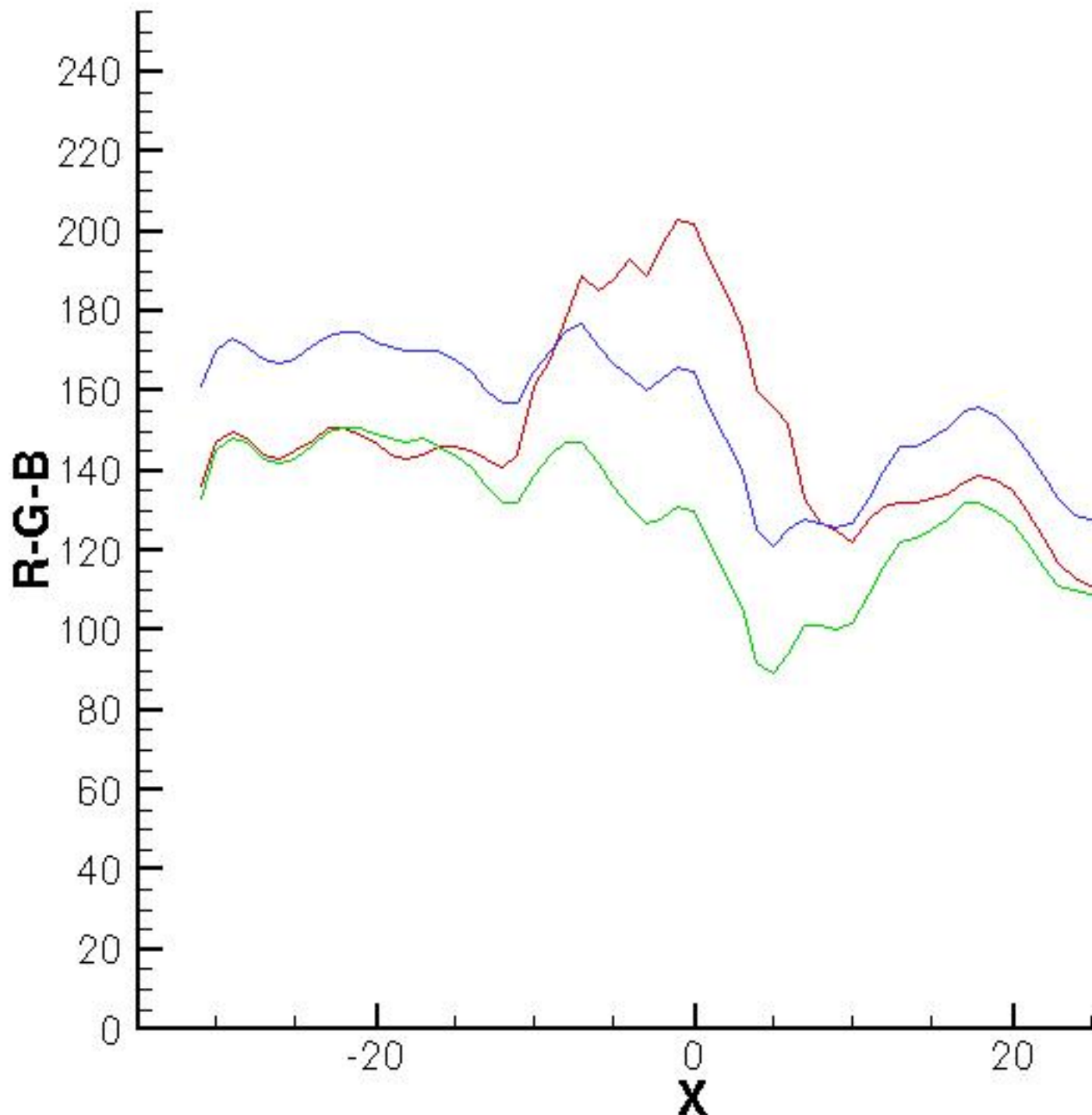


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Color analysis clearly show that the projected image of a laser show a **different** RGB response compared to the background, as shown below.