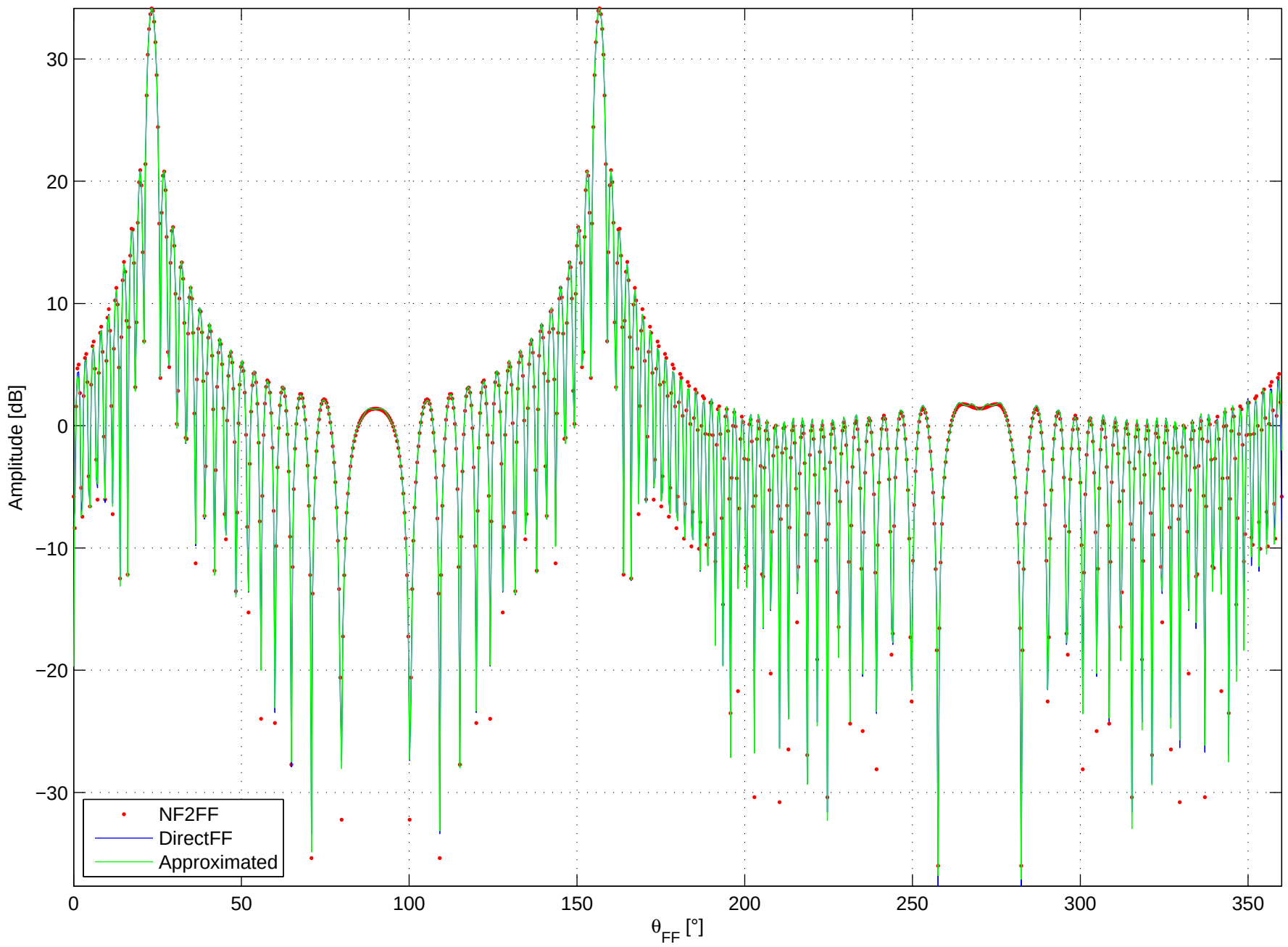
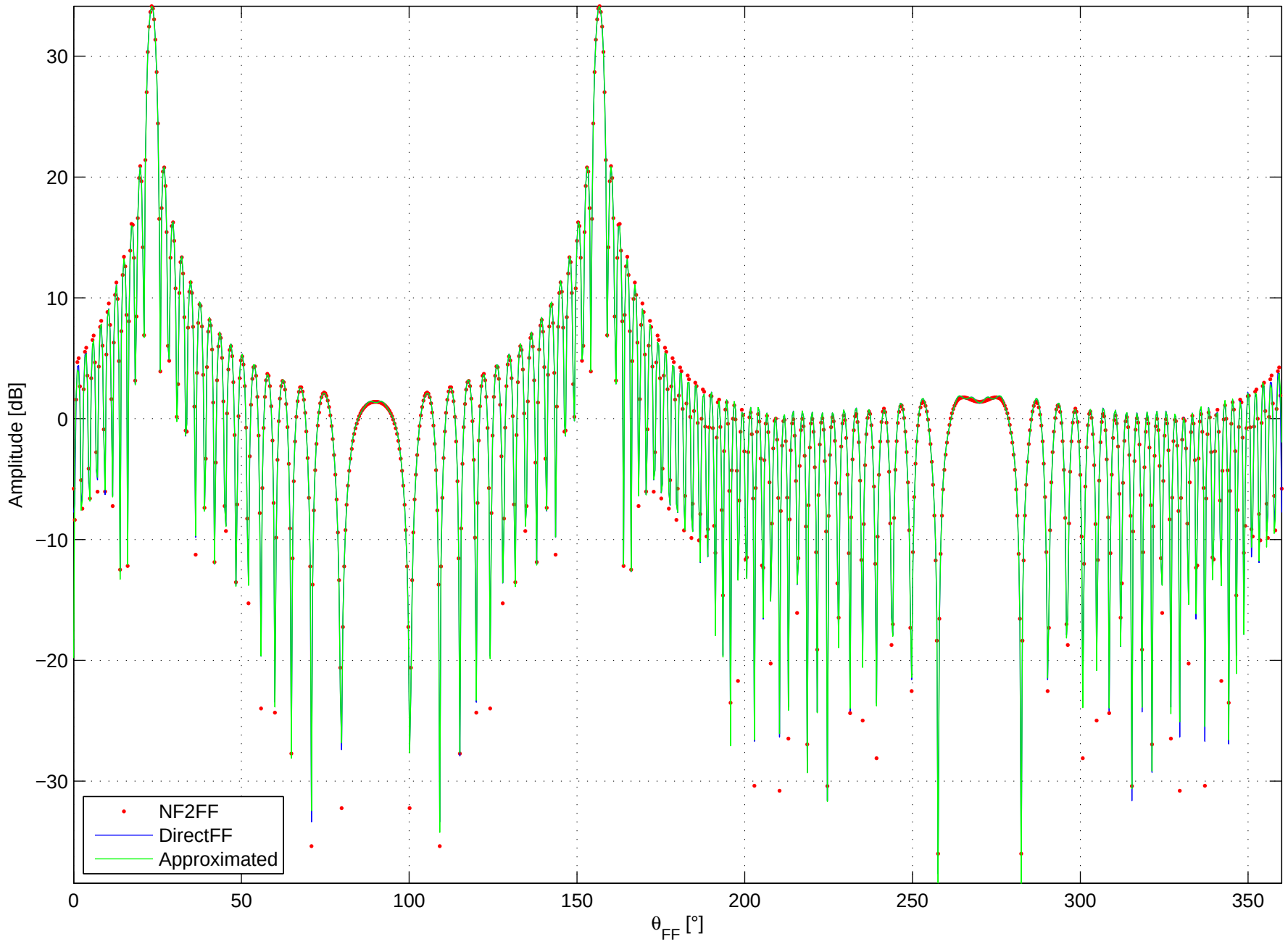
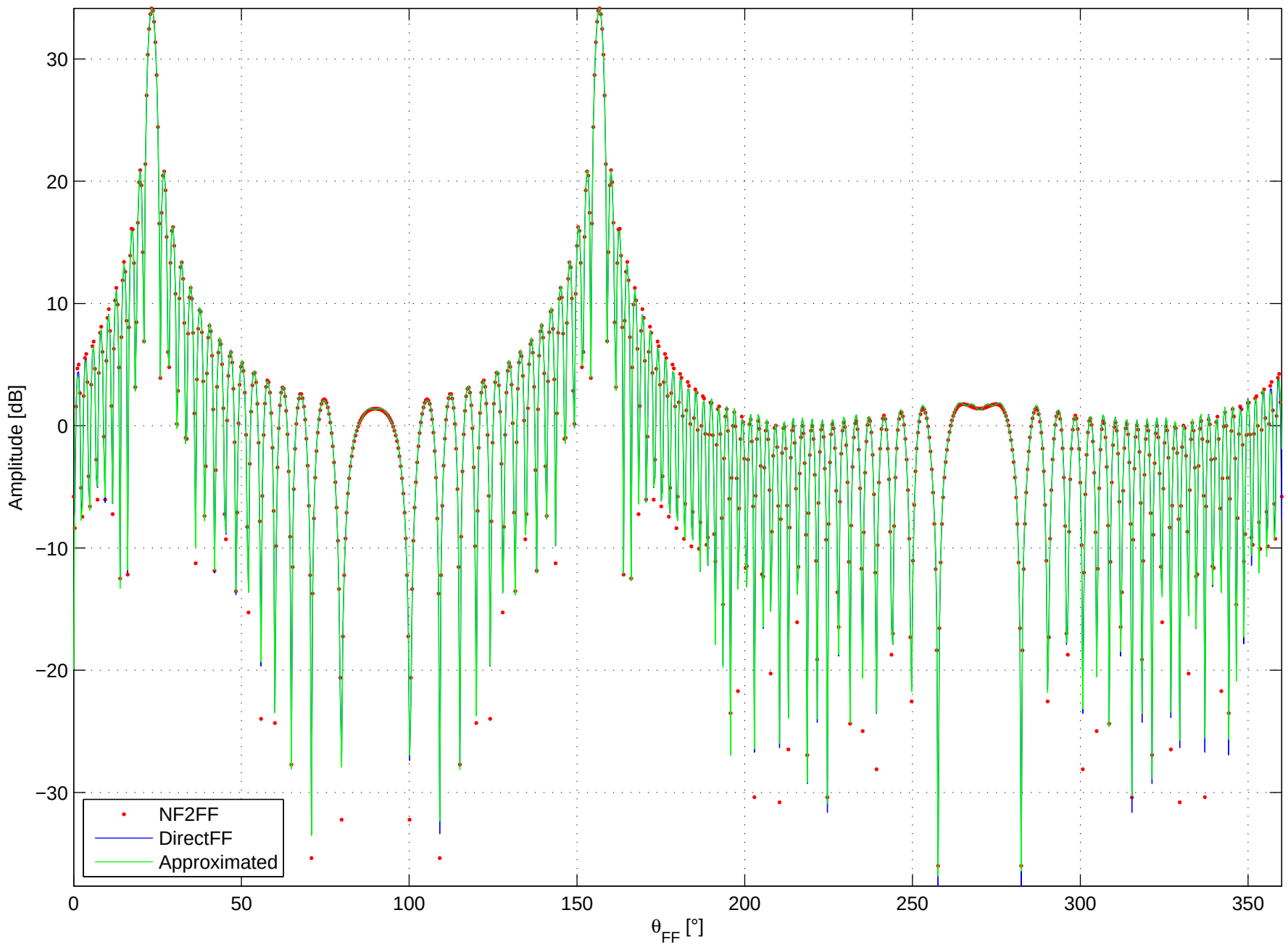
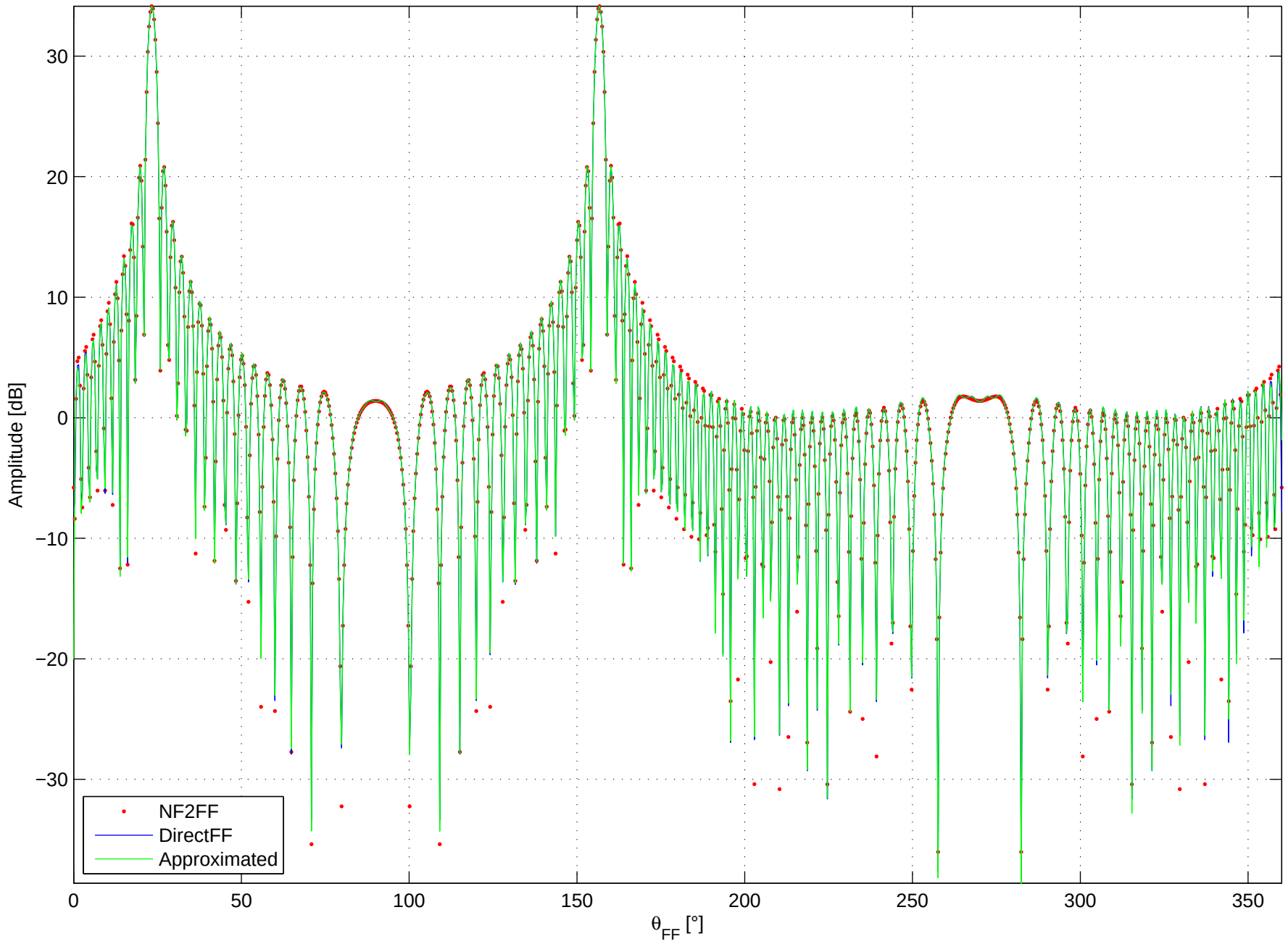
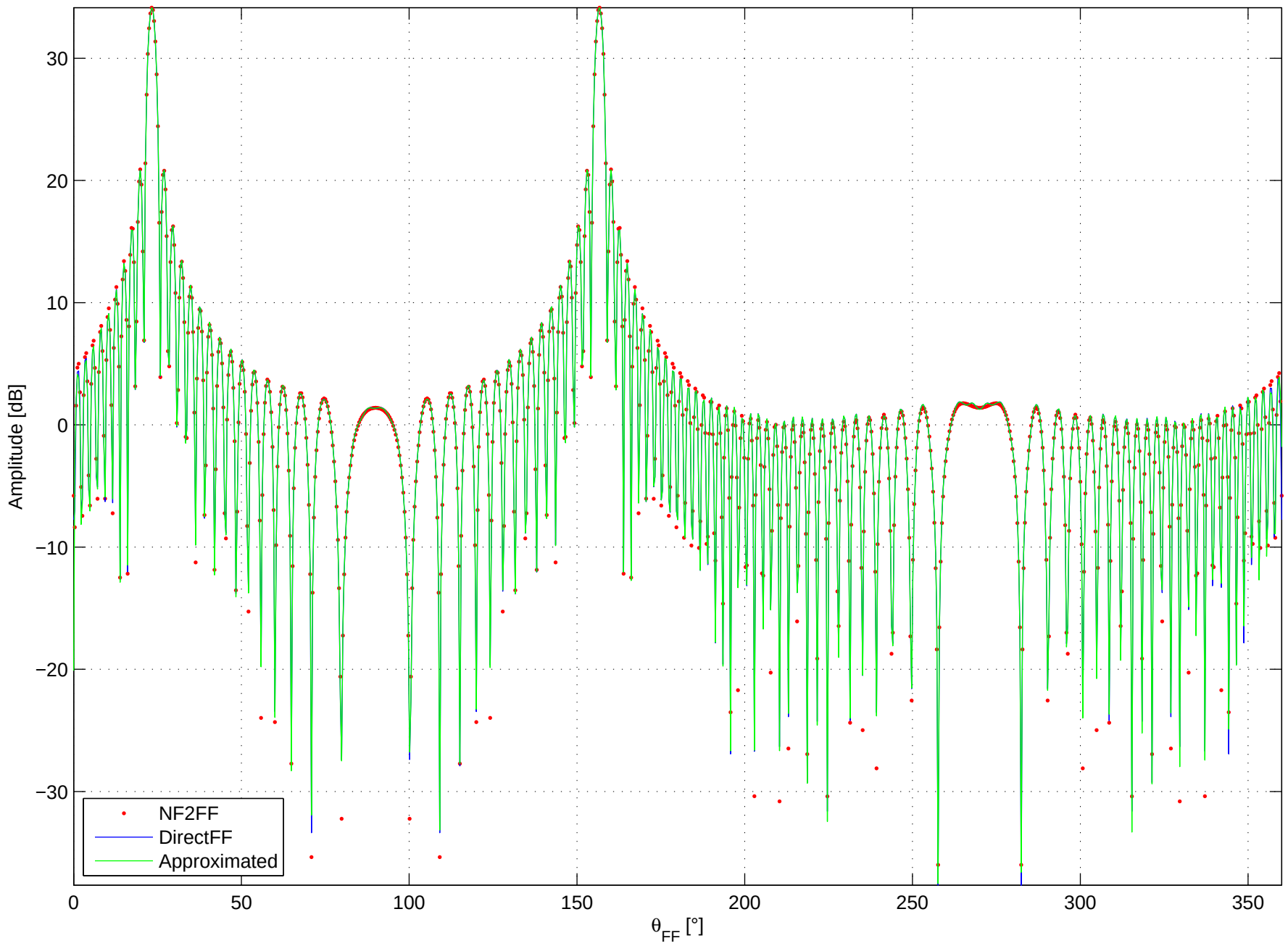
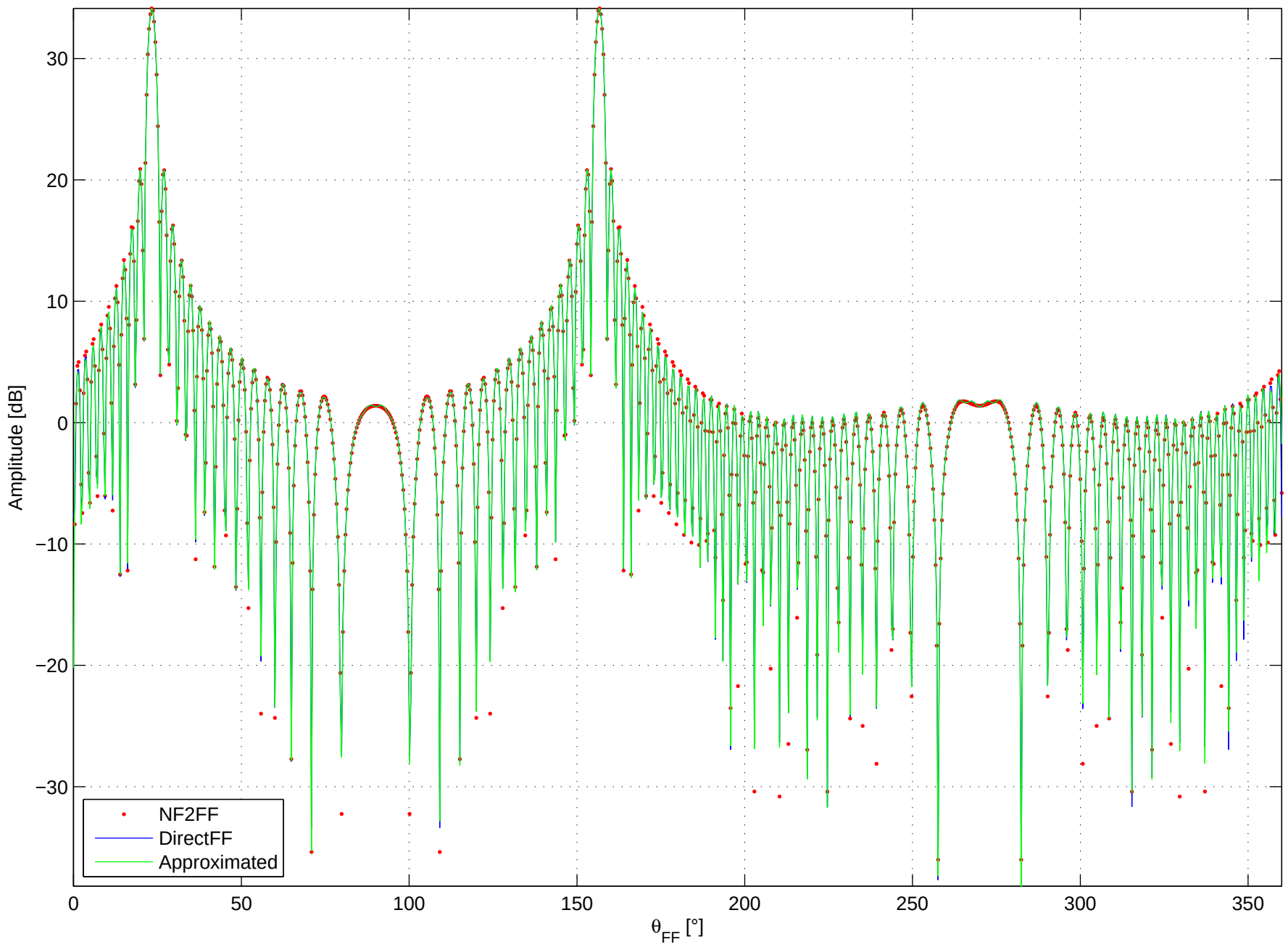

51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0034331
FFSamples = 961, NFSamples = 16200, Coefficients = 239
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350

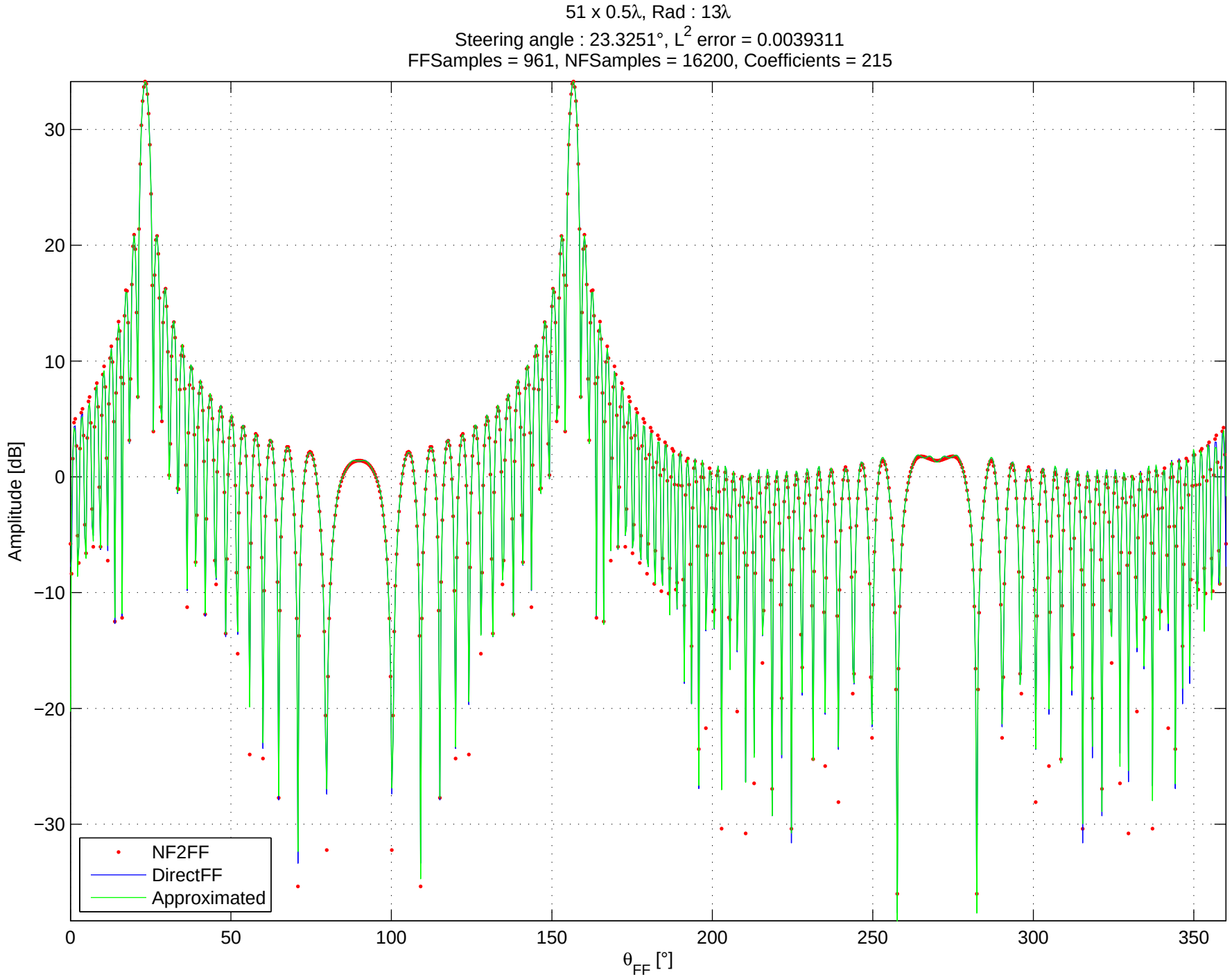

51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.003501
FFSamples = 961, NFSamples = 16200, Coefficients = 235
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350

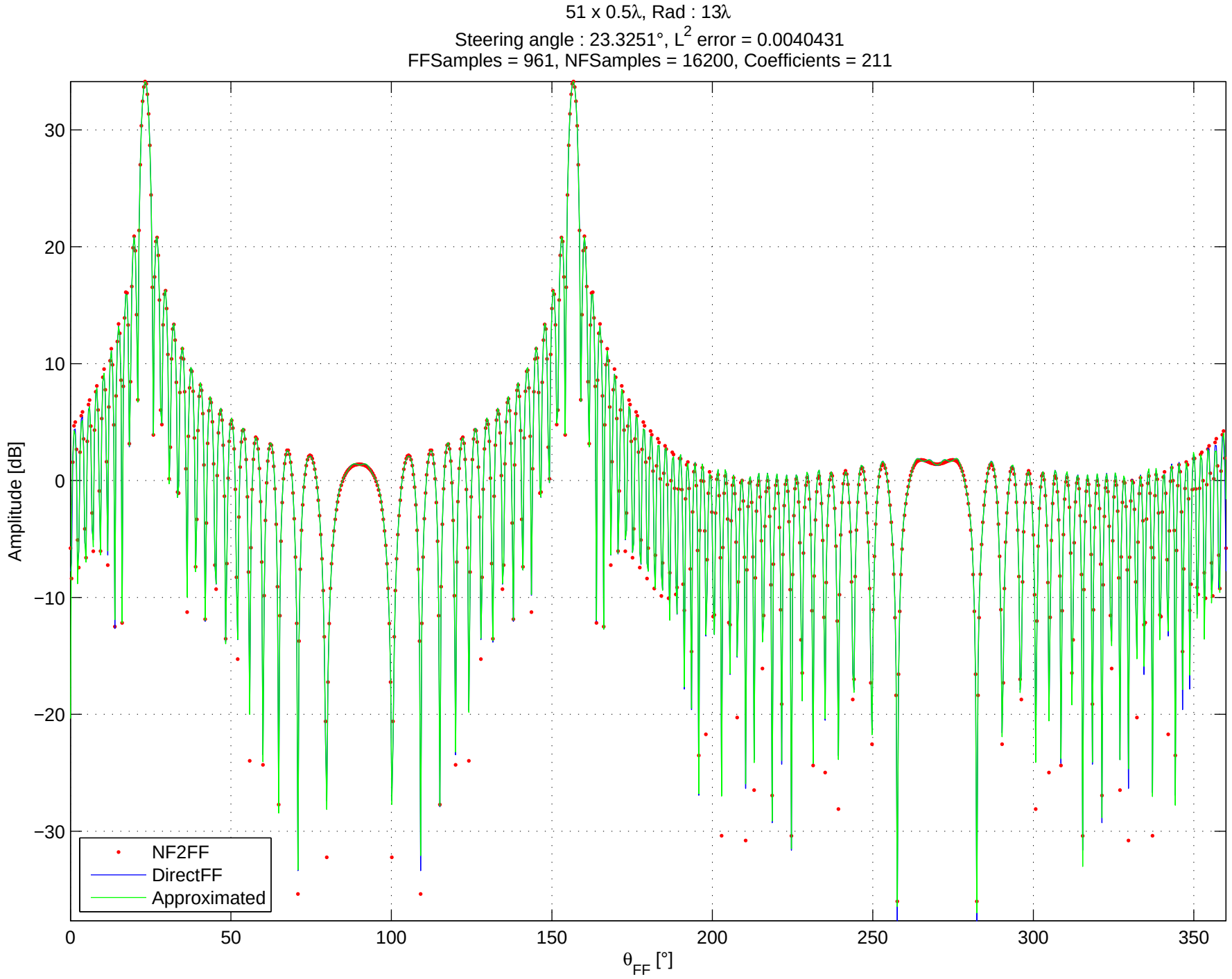

51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0035737
FFSamples = 961, NFSamples = 16200, Coefficients = 231
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350

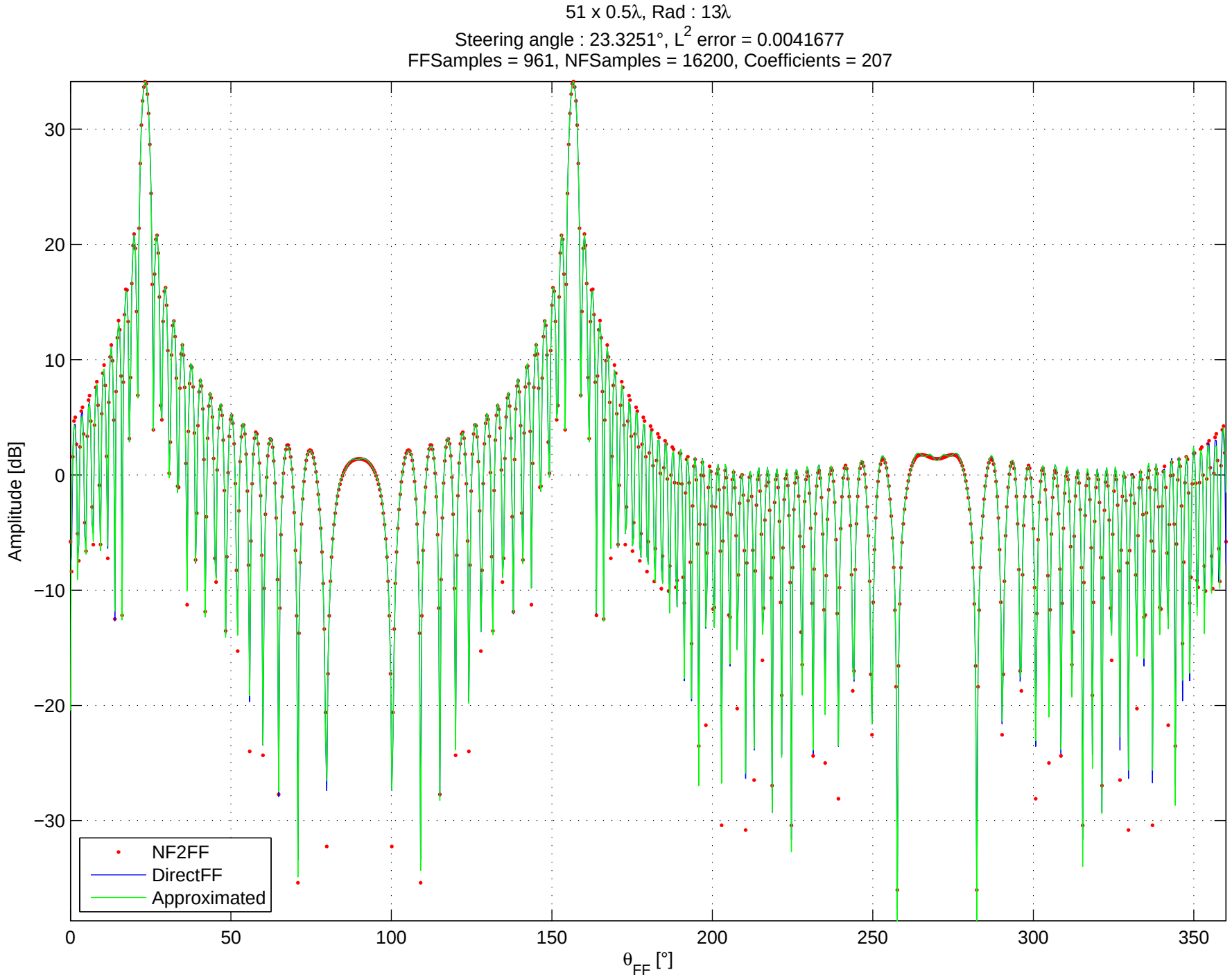

51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0036522
FFSamples = 961, NFSamples = 16200, Coefficients = 227
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated

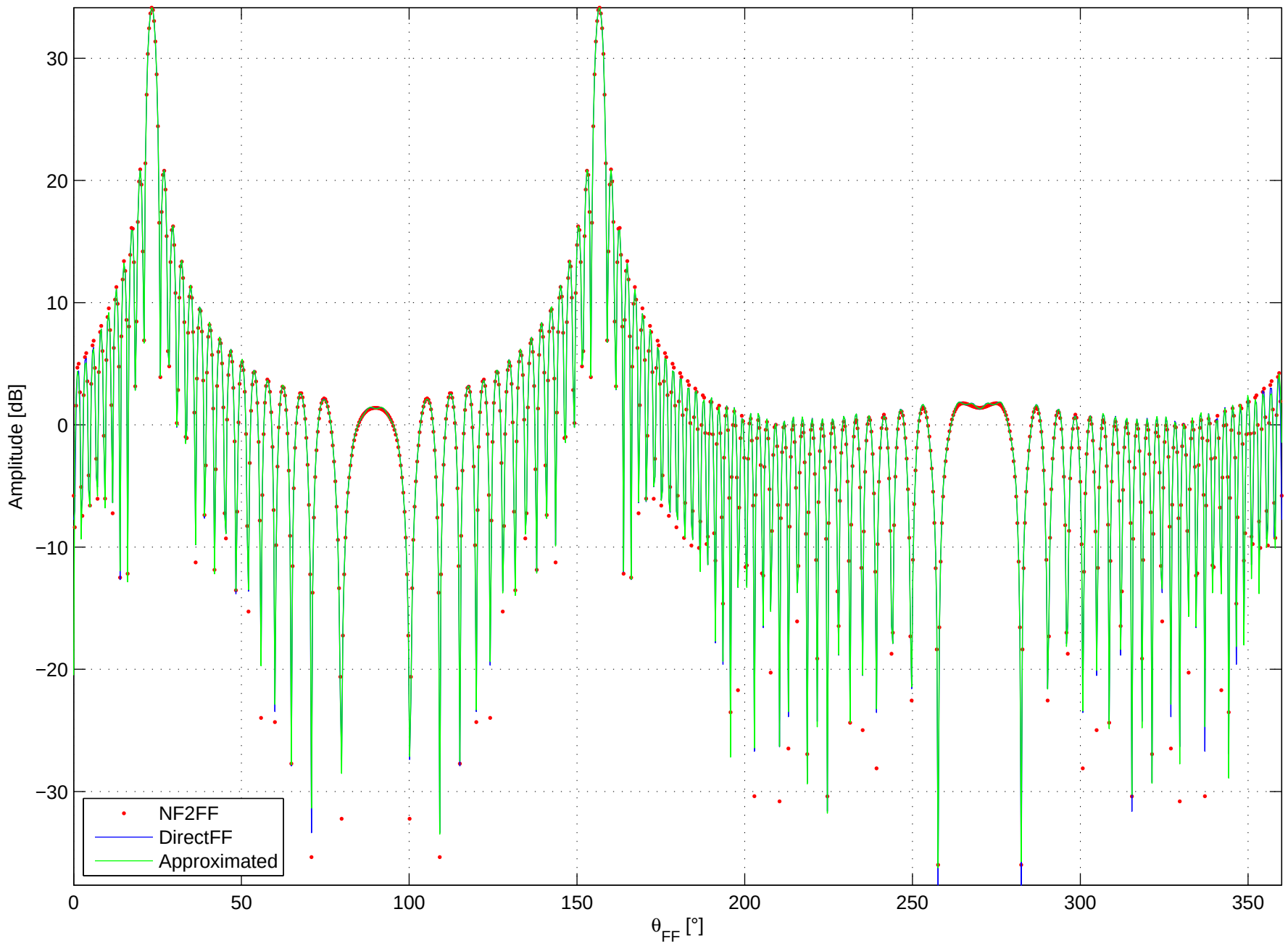

51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0037372
FFSamples = 961, NFSamples = 16200, Coefficients = 223
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350

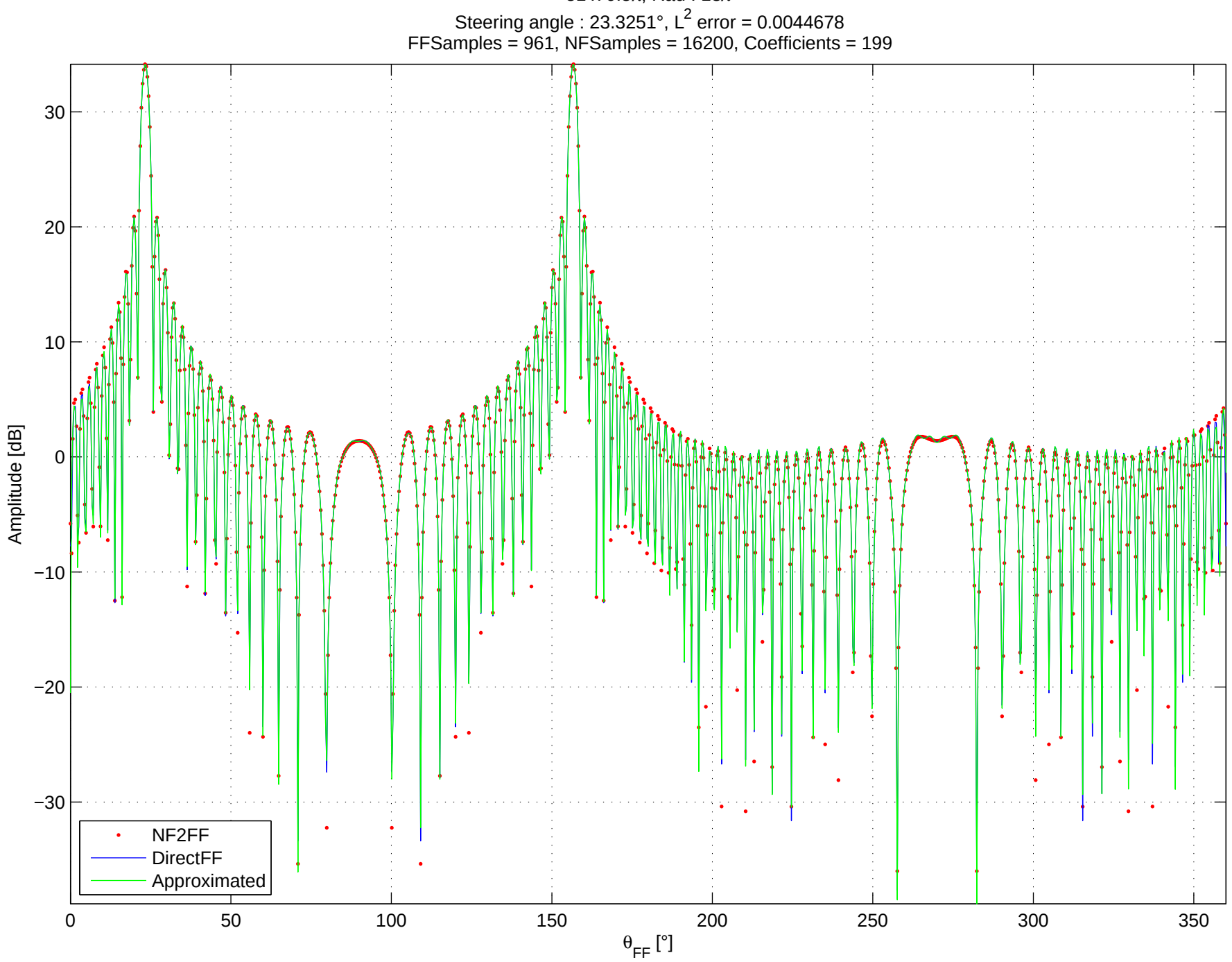

51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0038297
FFSamples = 961, NFSamples = 16200, Coefficients = 219
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0039311
FFSamples = 961, NFSamples = 16200, Coefficients = 215
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0040431
FFSamples = 961, NFSamples = 16200, Coefficients = 211
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0041677
FFSamples = 961, NFSamples = 16200, Coefficients = 207
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0043078
FFSamples = 961, NFSamples = 16200, Coefficients = 203
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0044678
FFSamples = 961, NFSamples = 16200, Coefficients = 199
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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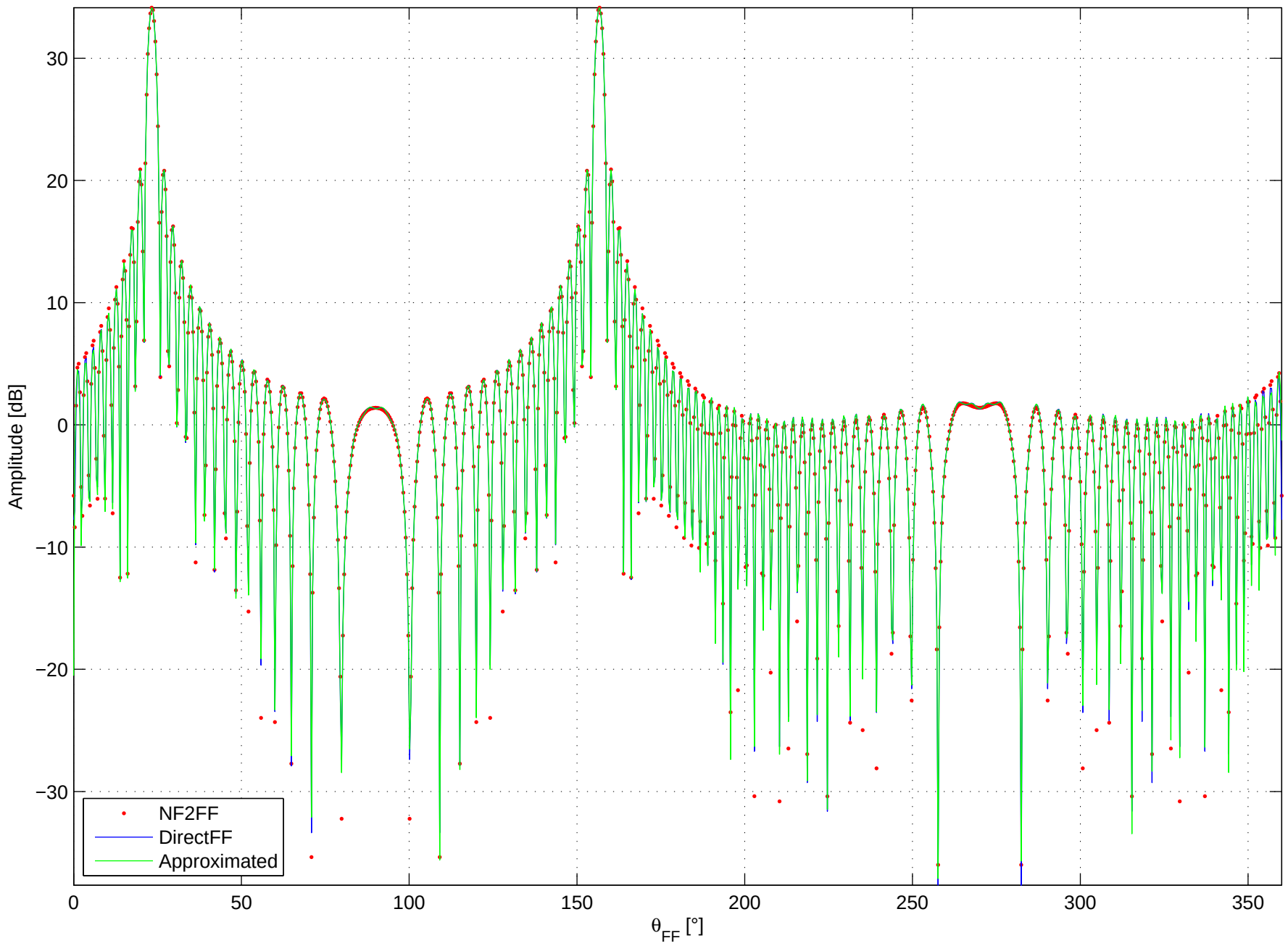
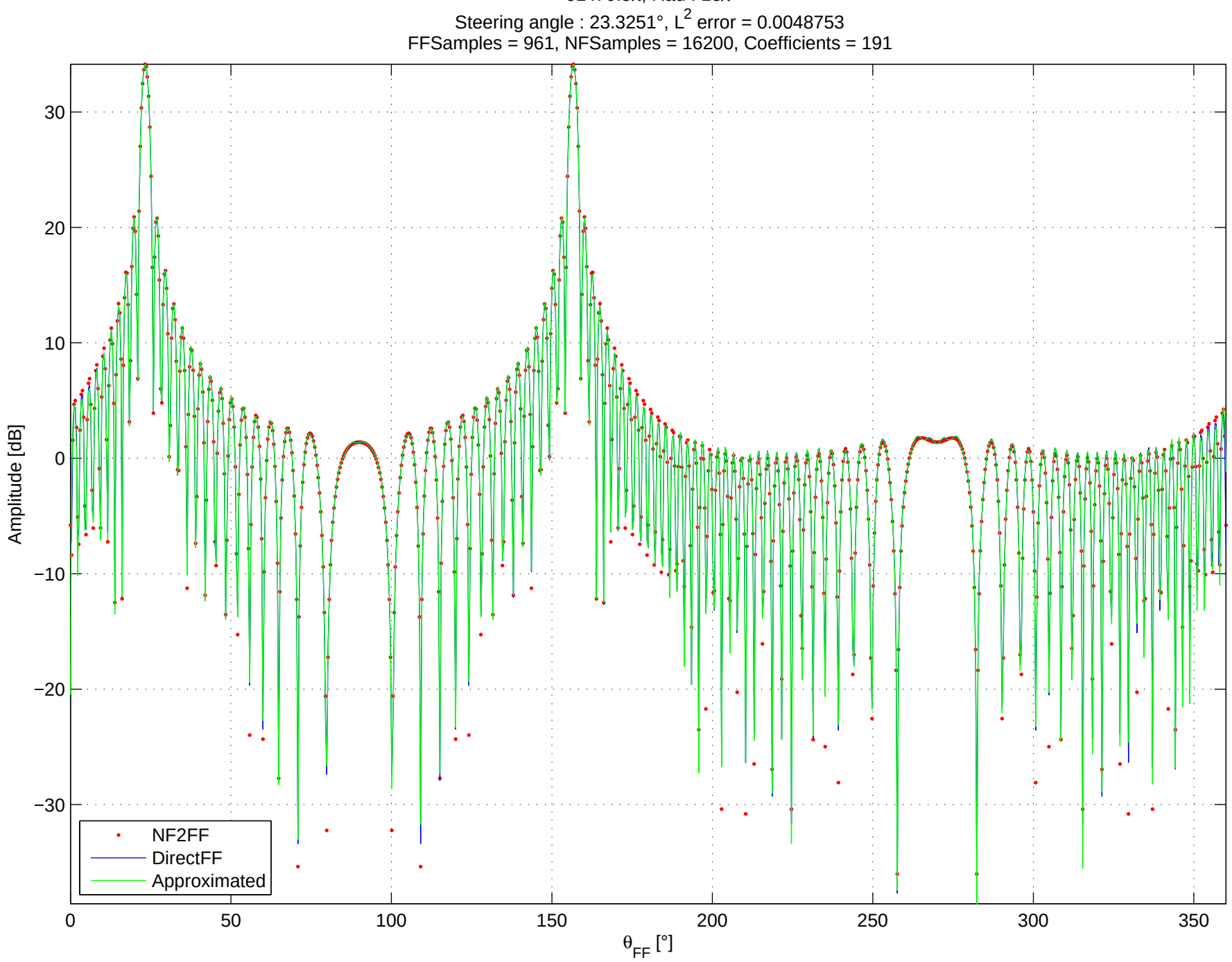
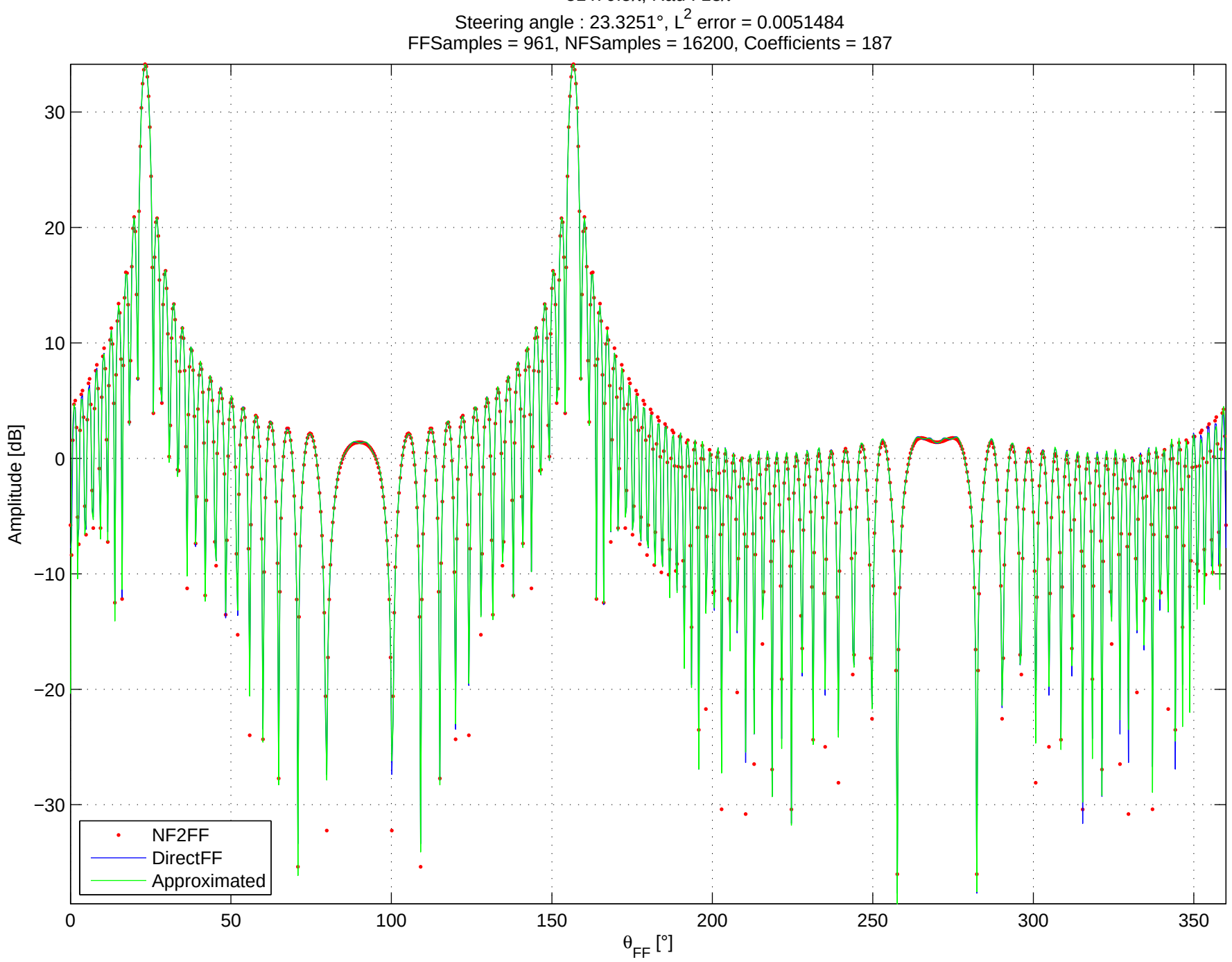
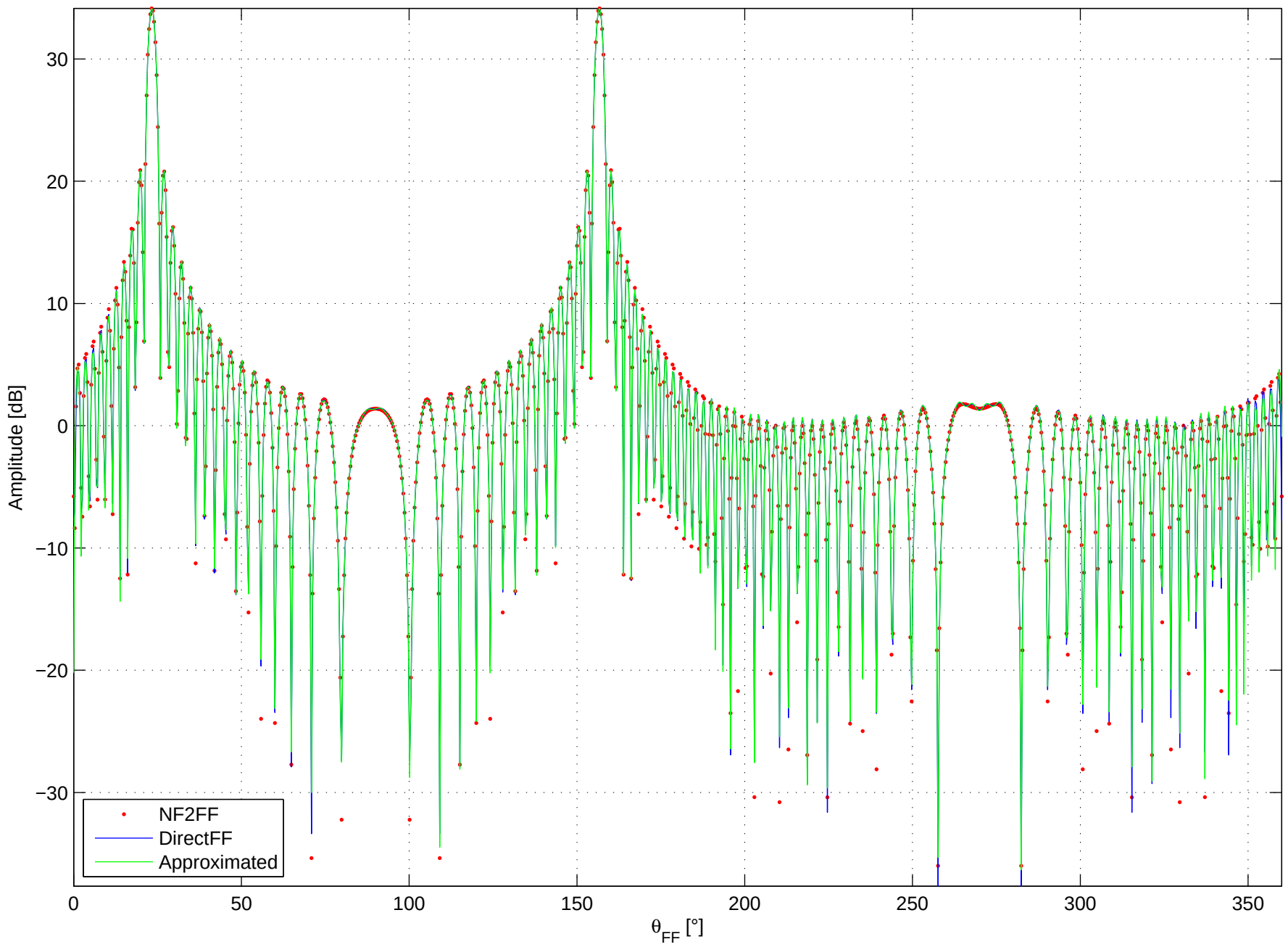
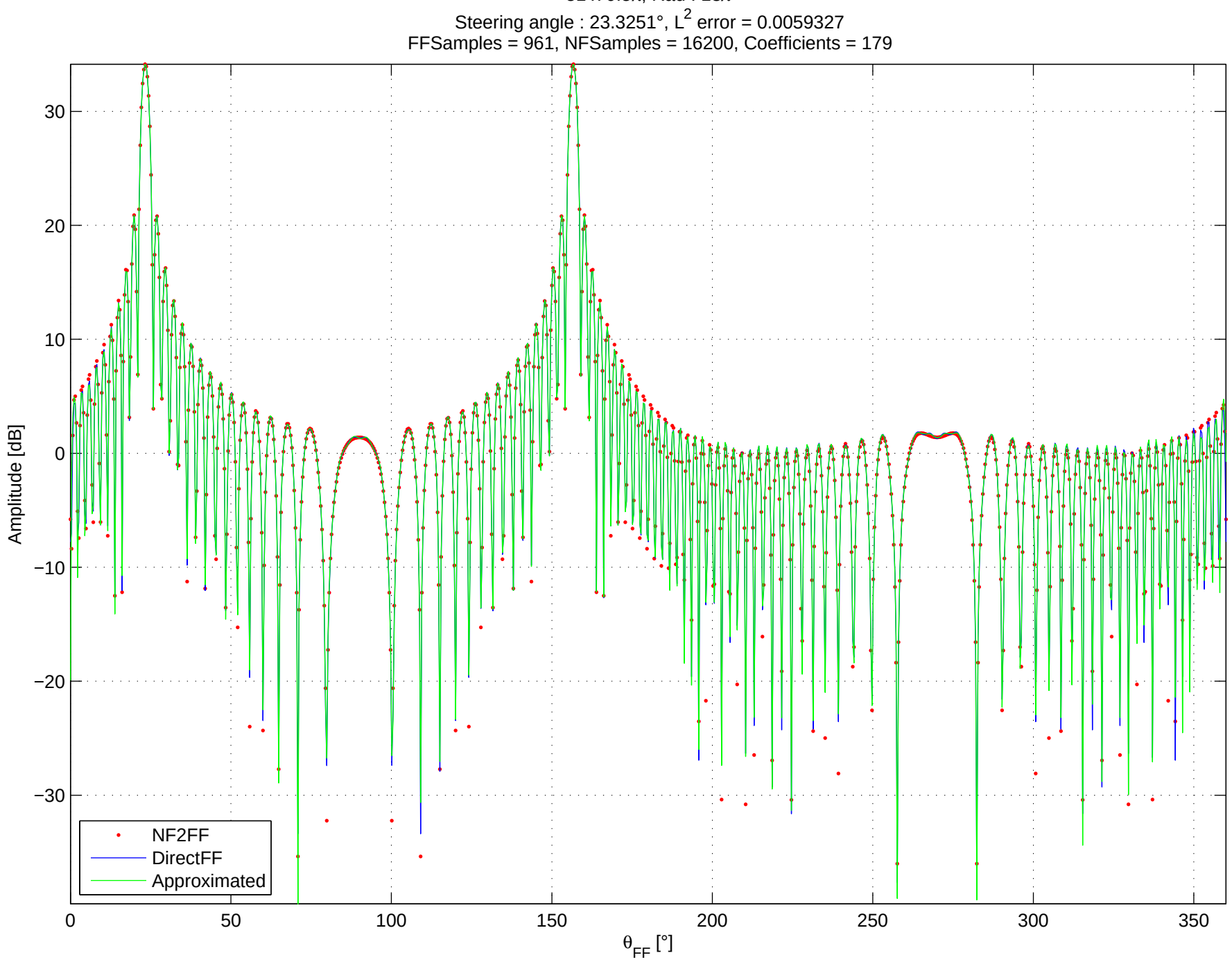
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350

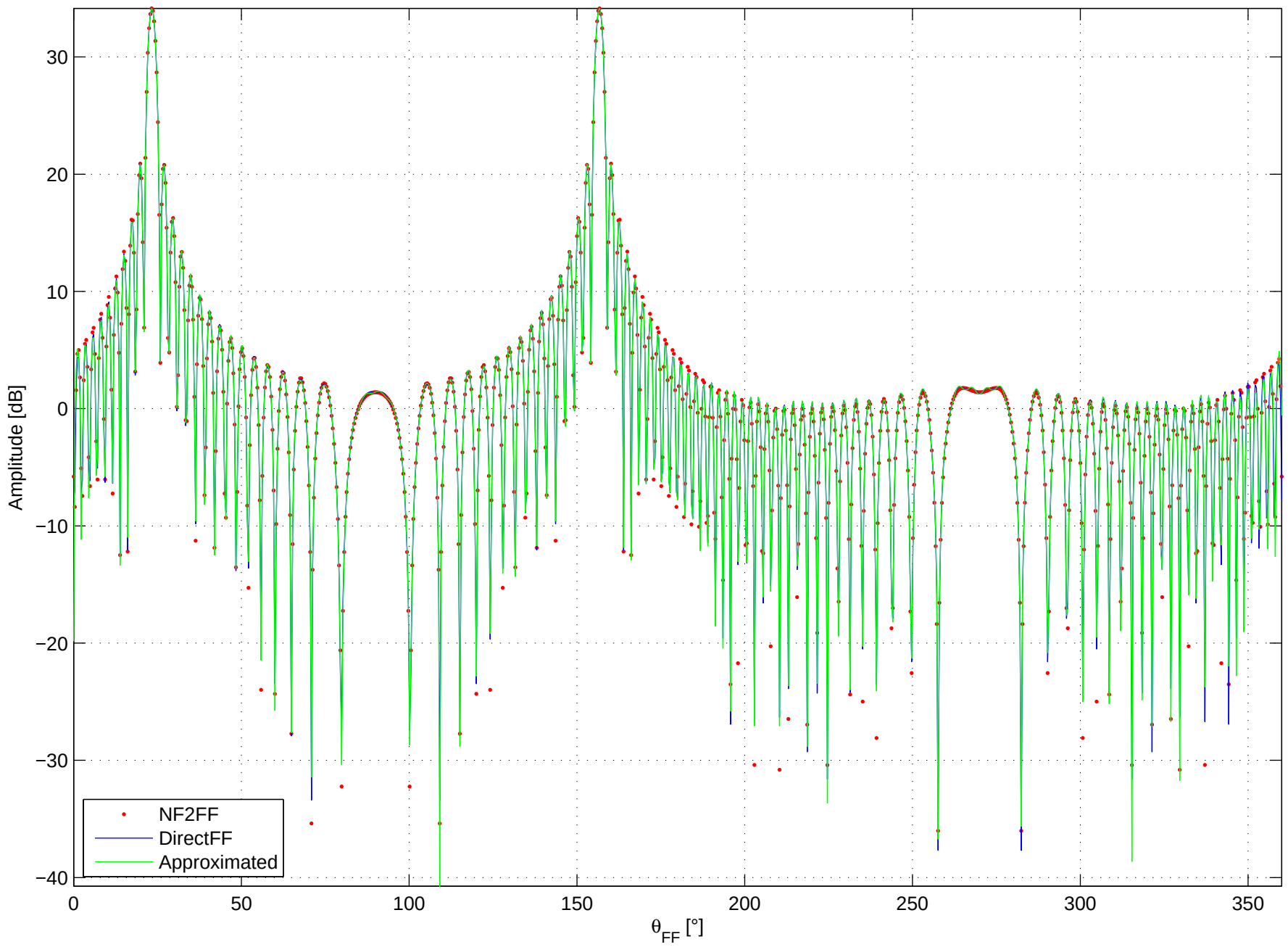

51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0046541
FFSamples = 961, NFSamples = 16200, Coefficients = 195
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0048753
FFSamples = 961, NFSamples = 16200, Coefficients = 191
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0051484
FFSamples = 961, NFSamples = 16200, Coefficients = 187
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0054857
FFSamples = 961, NFSamples = 16200, Coefficients = 183
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0059327
FFSamples = 961, NFSamples = 16200, Coefficients = 179
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0064412
FFSamples = 961, NFSamples = 16200, Coefficients = 175
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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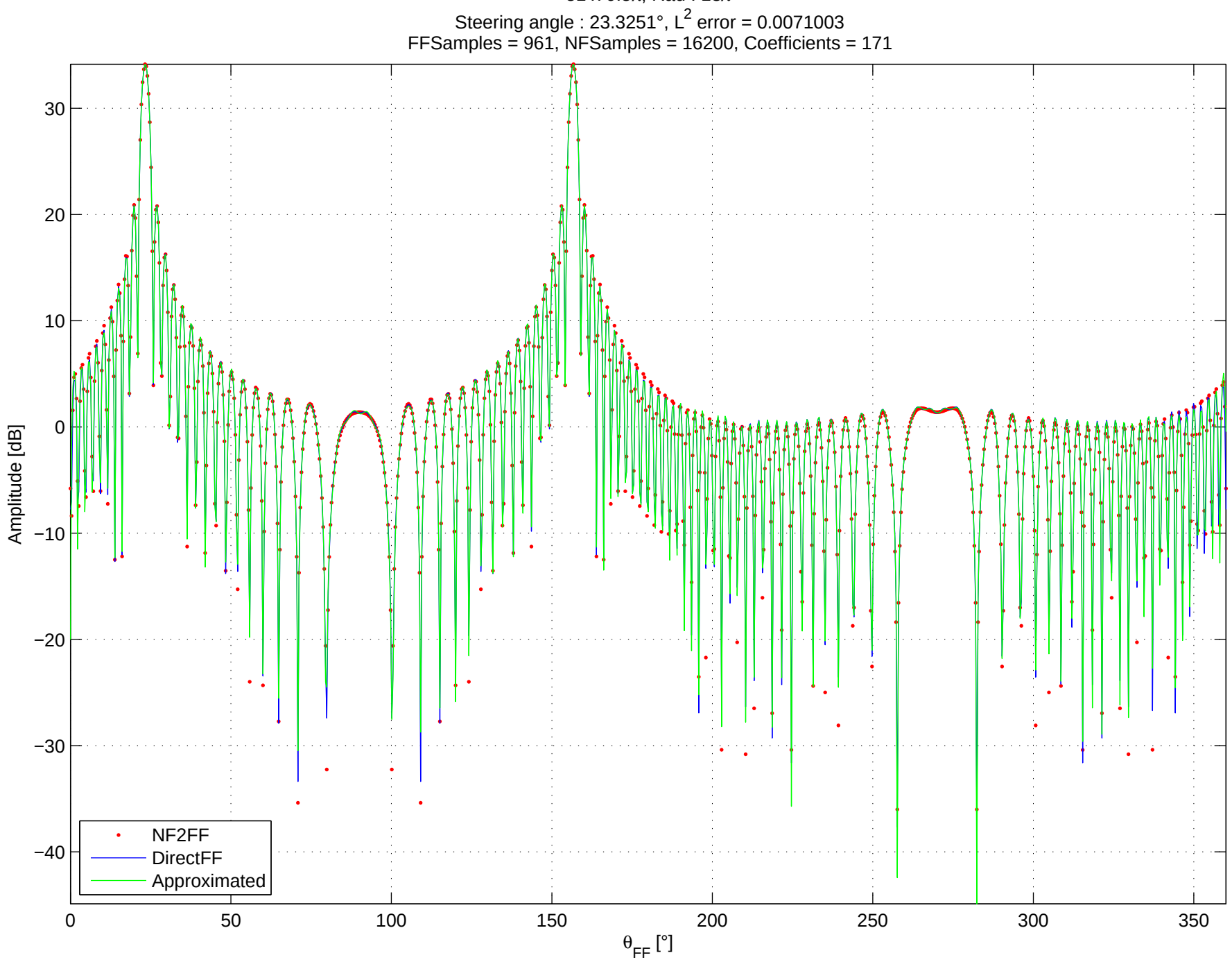
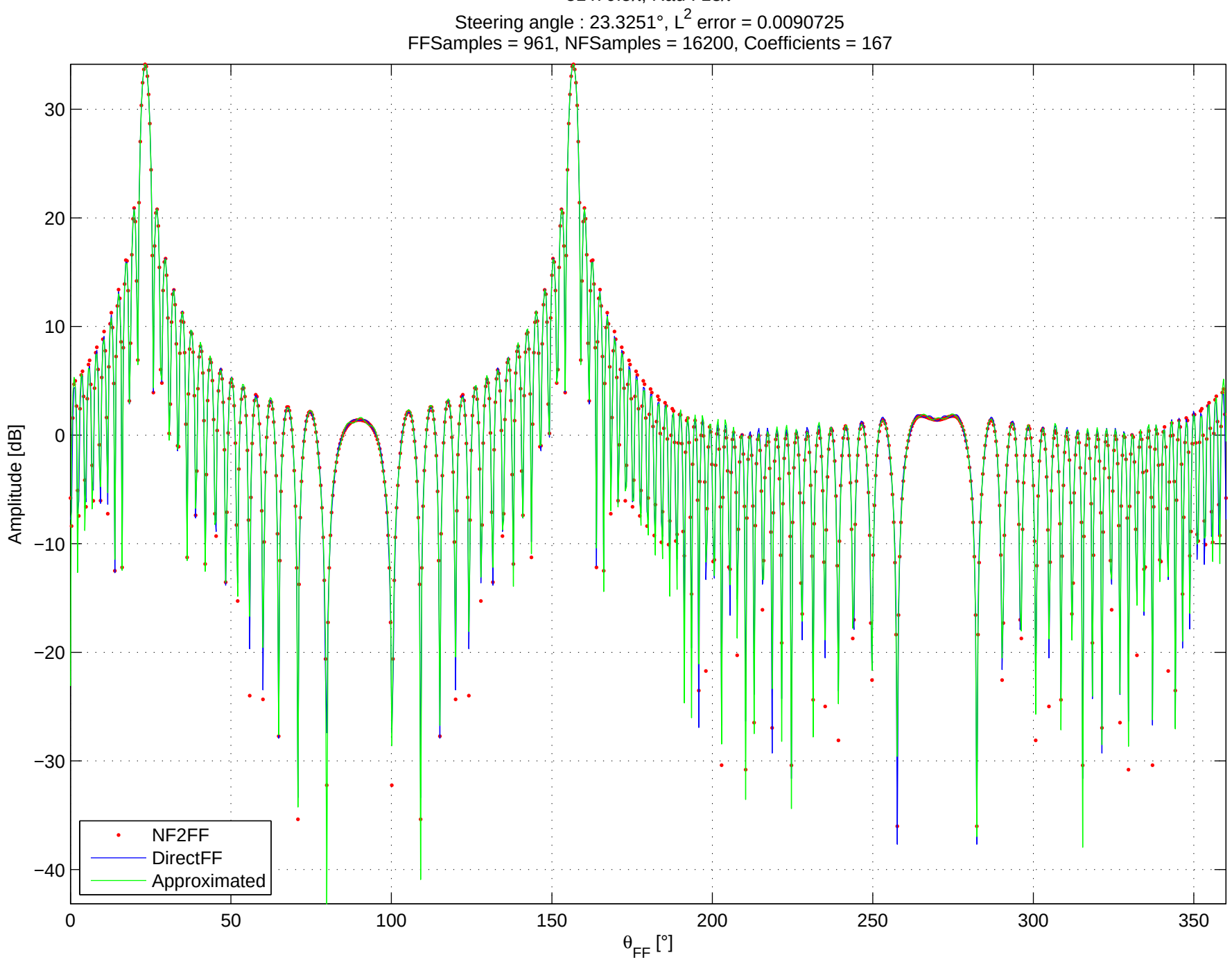
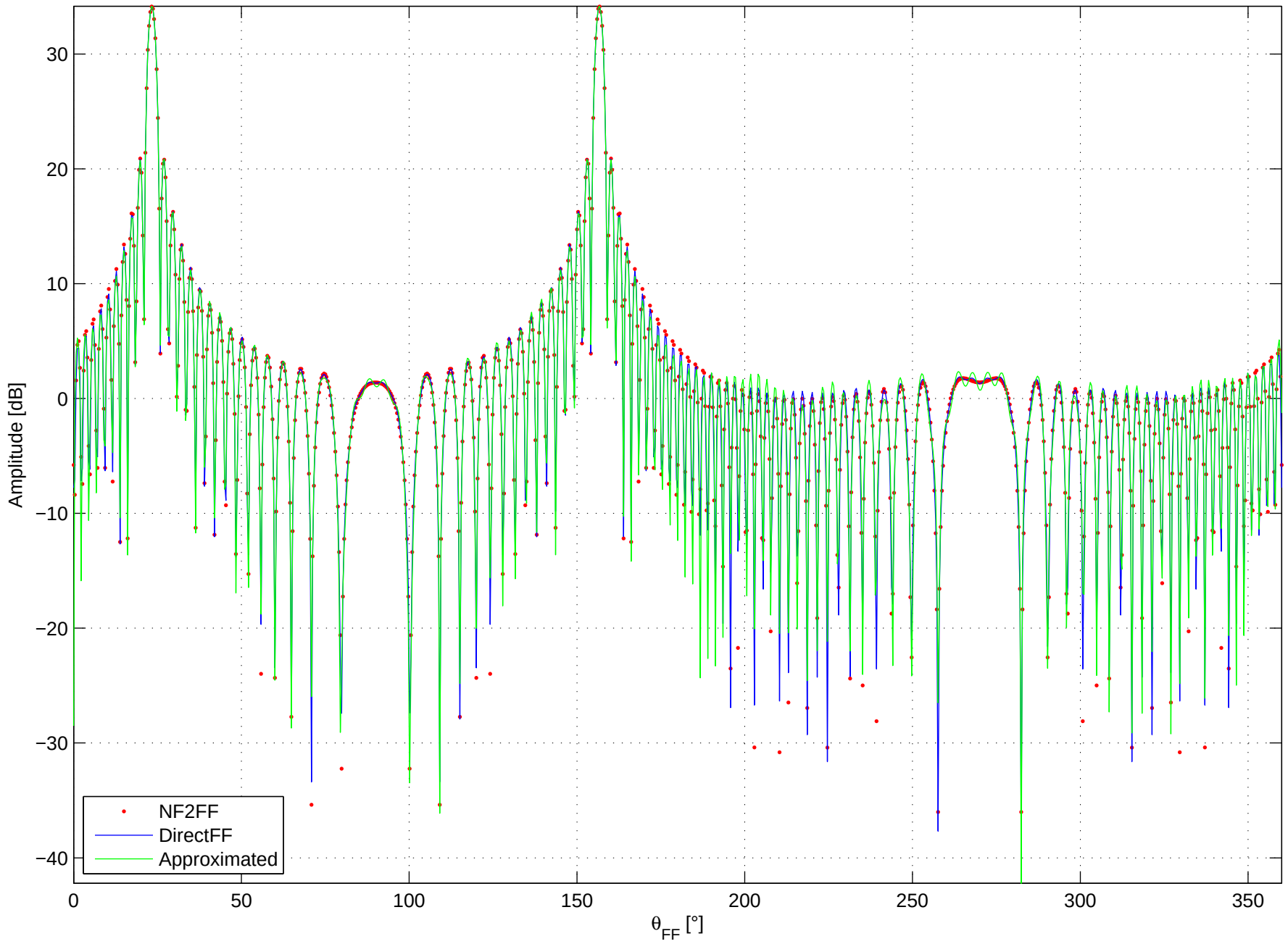
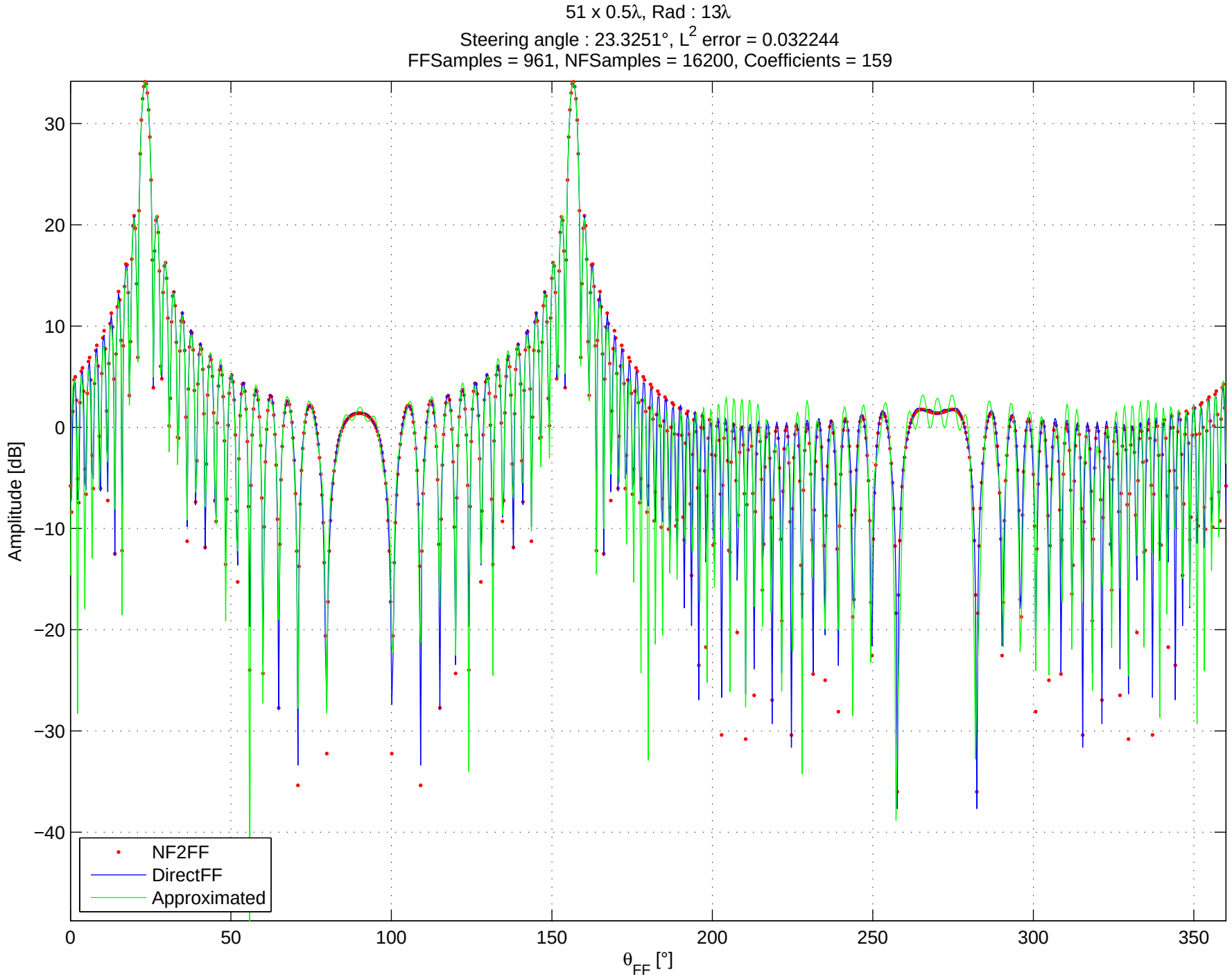
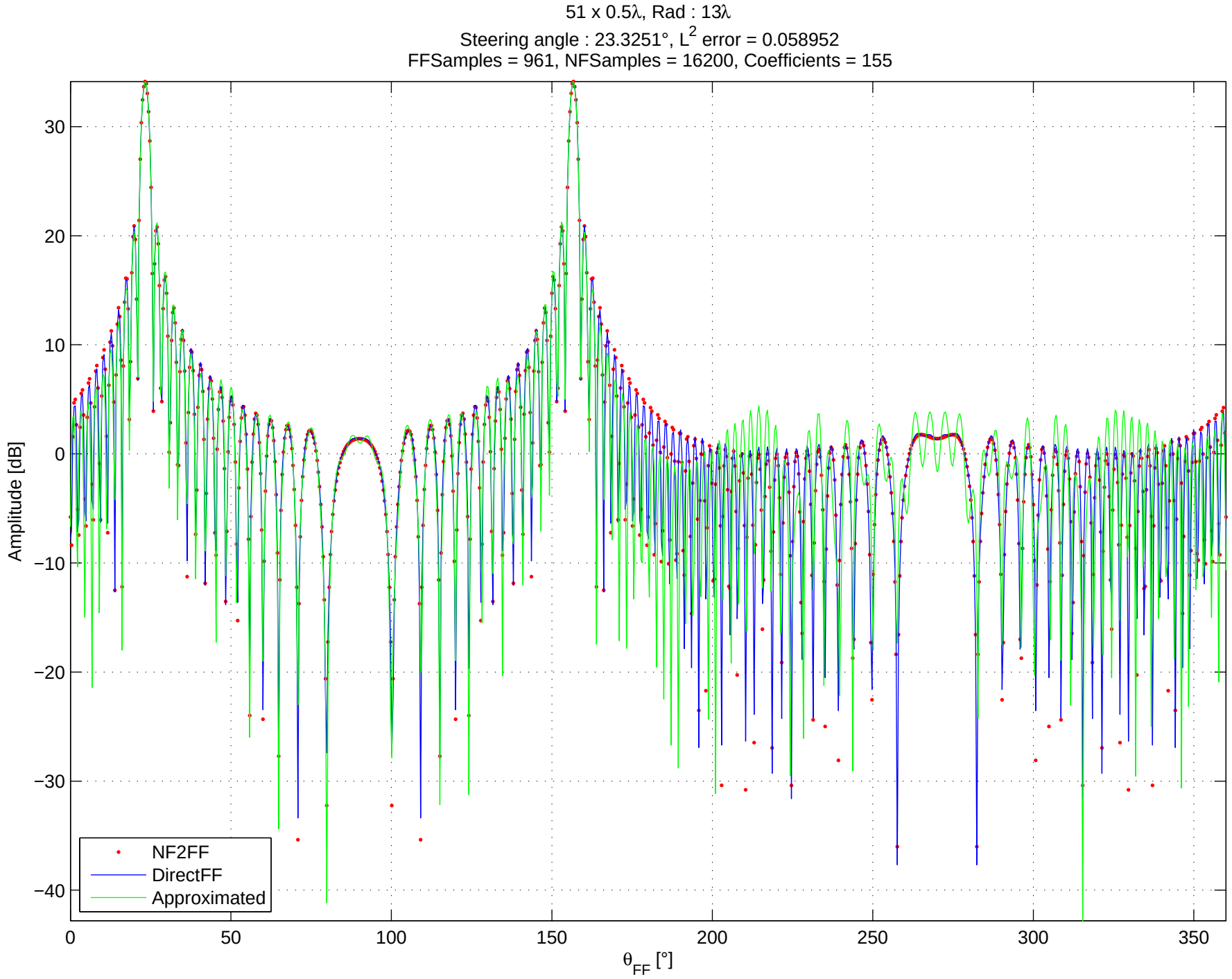
20
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0071003
FFSamples = 961, NFSamples = 16200, Coefficients = 171
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.0090725
FFSamples = 961, NFSamples = 16200, Coefficients = 167
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.015087
FFSamples = 961, NFSamples = 16200, Coefficients = 163
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.032244
FFSamples = 961, NFSamples = 16200, Coefficients = 159
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.058952
FFSamples = 961, NFSamples = 16200, Coefficients = 155
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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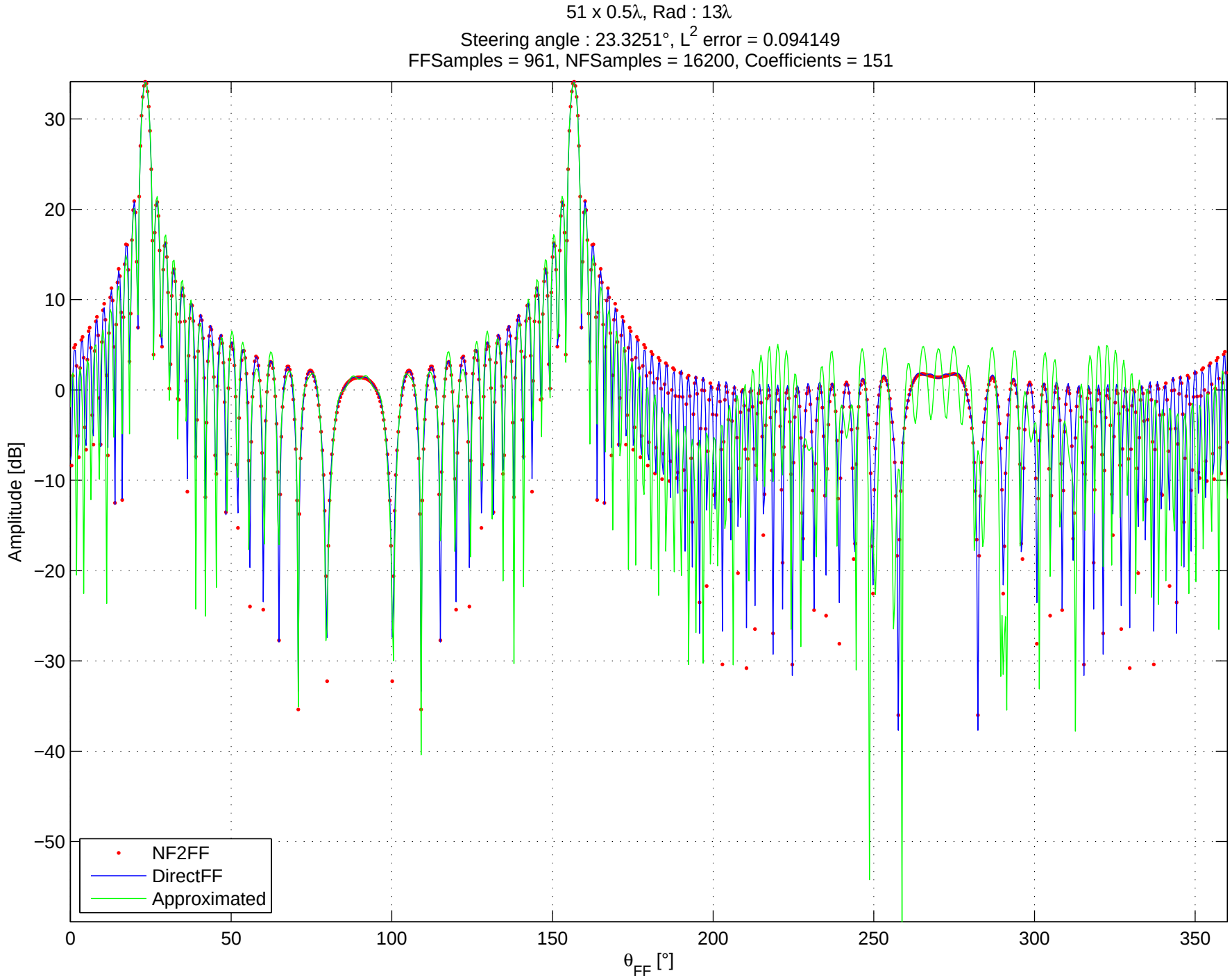
20
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.094149
FFSamples = 961, NFSamples = 16200, Coefficients = 151
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
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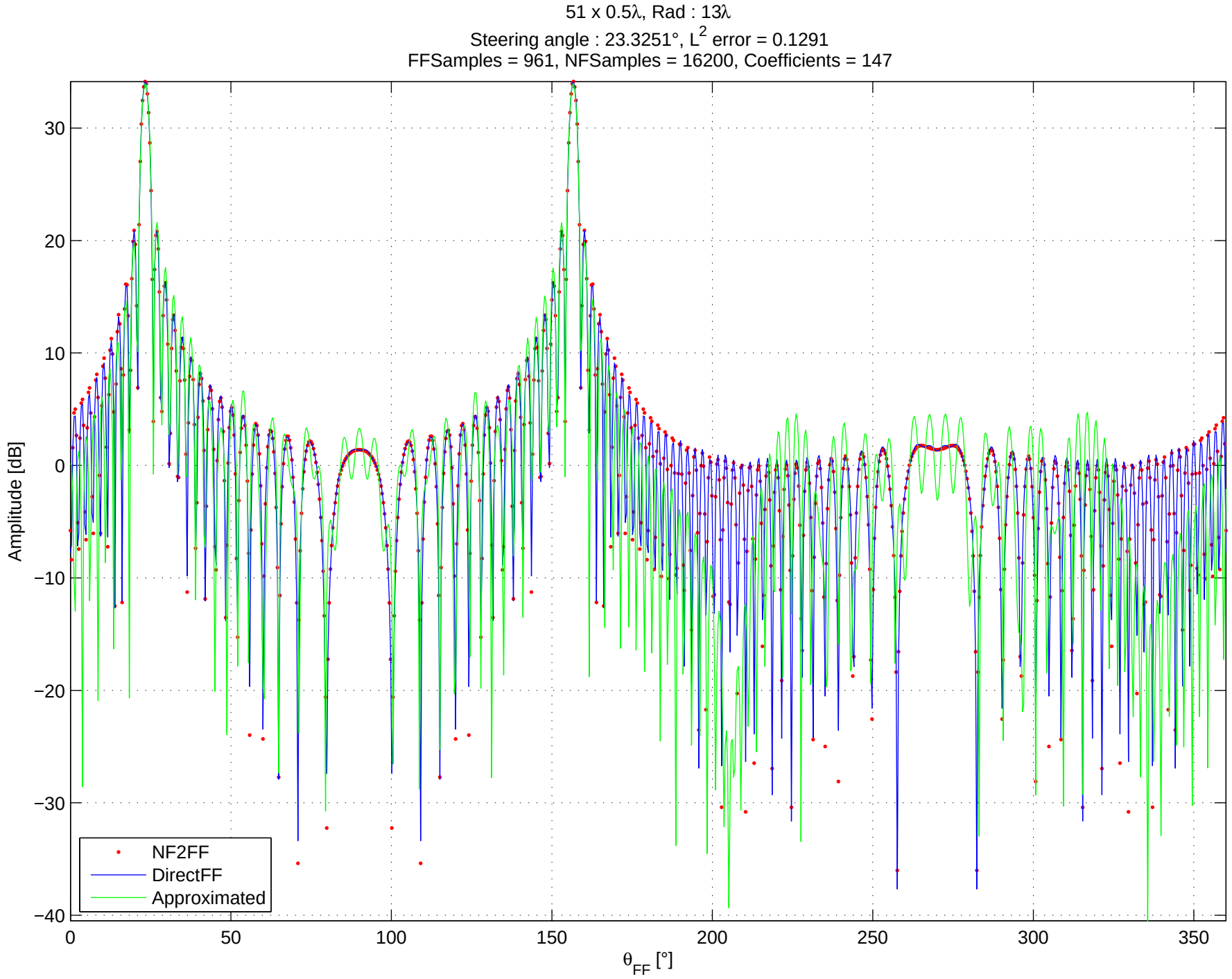
10
0
−10
−20
−30
−40
−50
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.1291
FFSamples = 961, NFSamples = 16200, Coefficients = 147
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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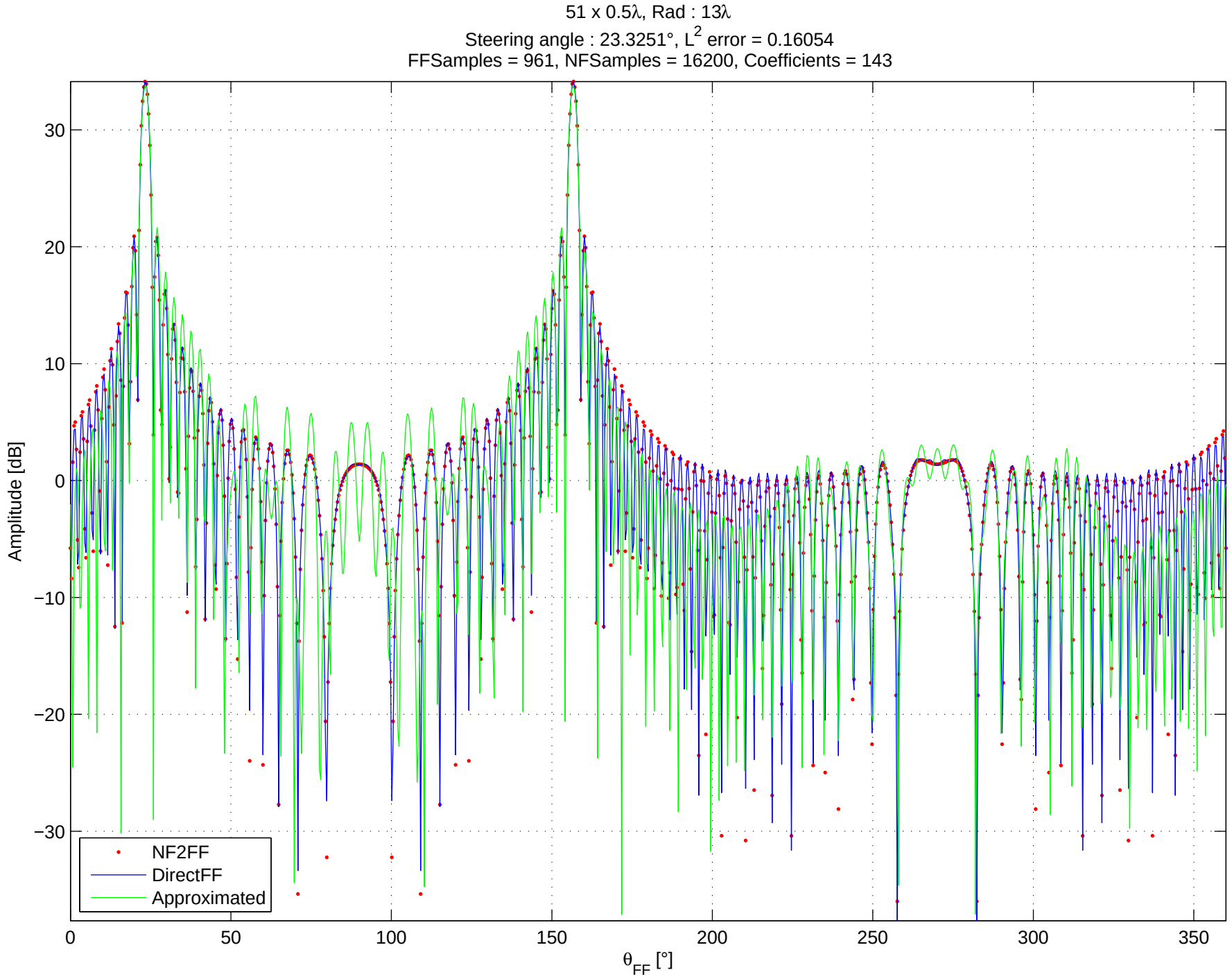
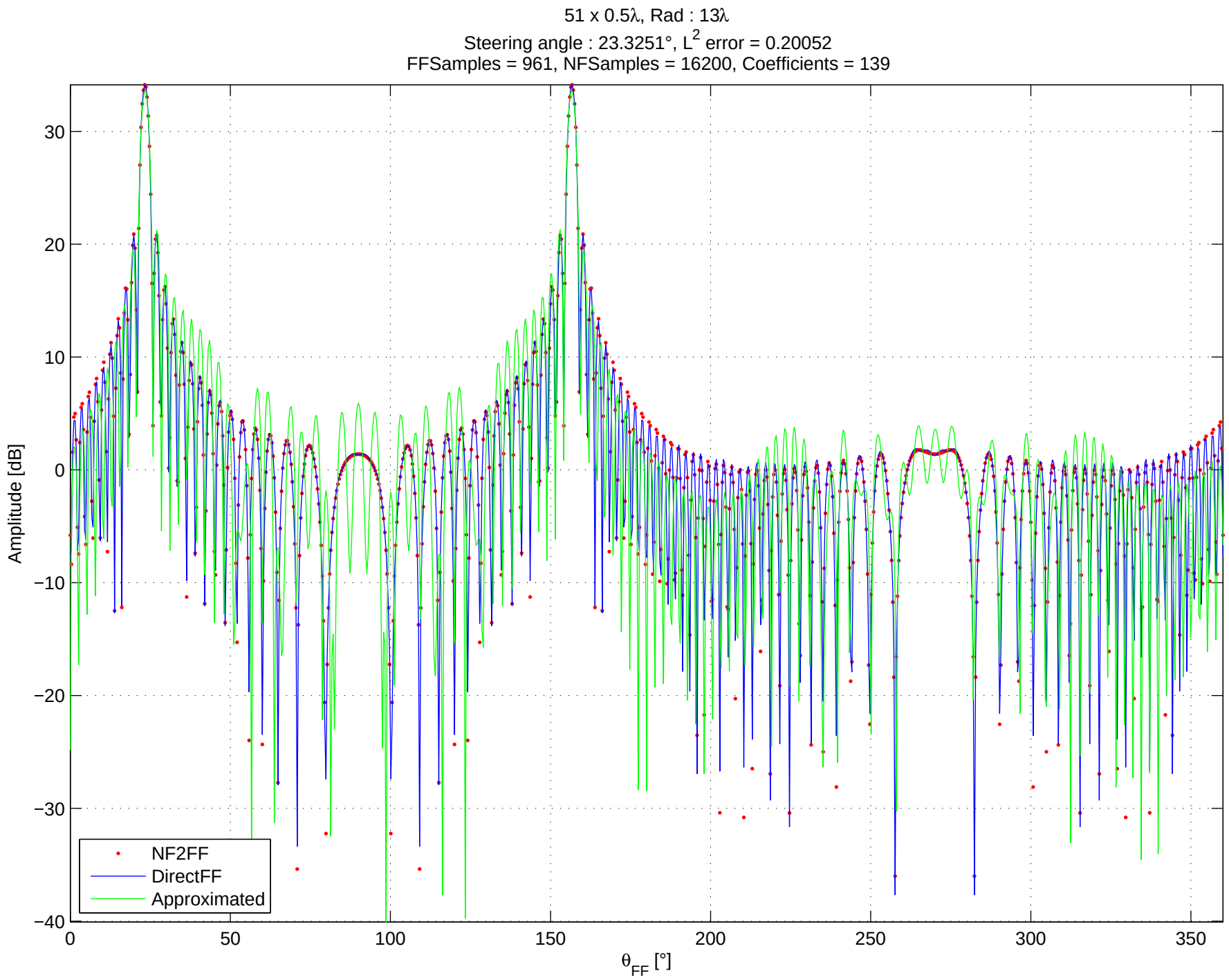
20
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.16054
FFSamples = 961, NFSamples = 16200, Coefficients = 143
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.20052
FFSamples = 961, NFSamples = 16200, Coefficients = 139
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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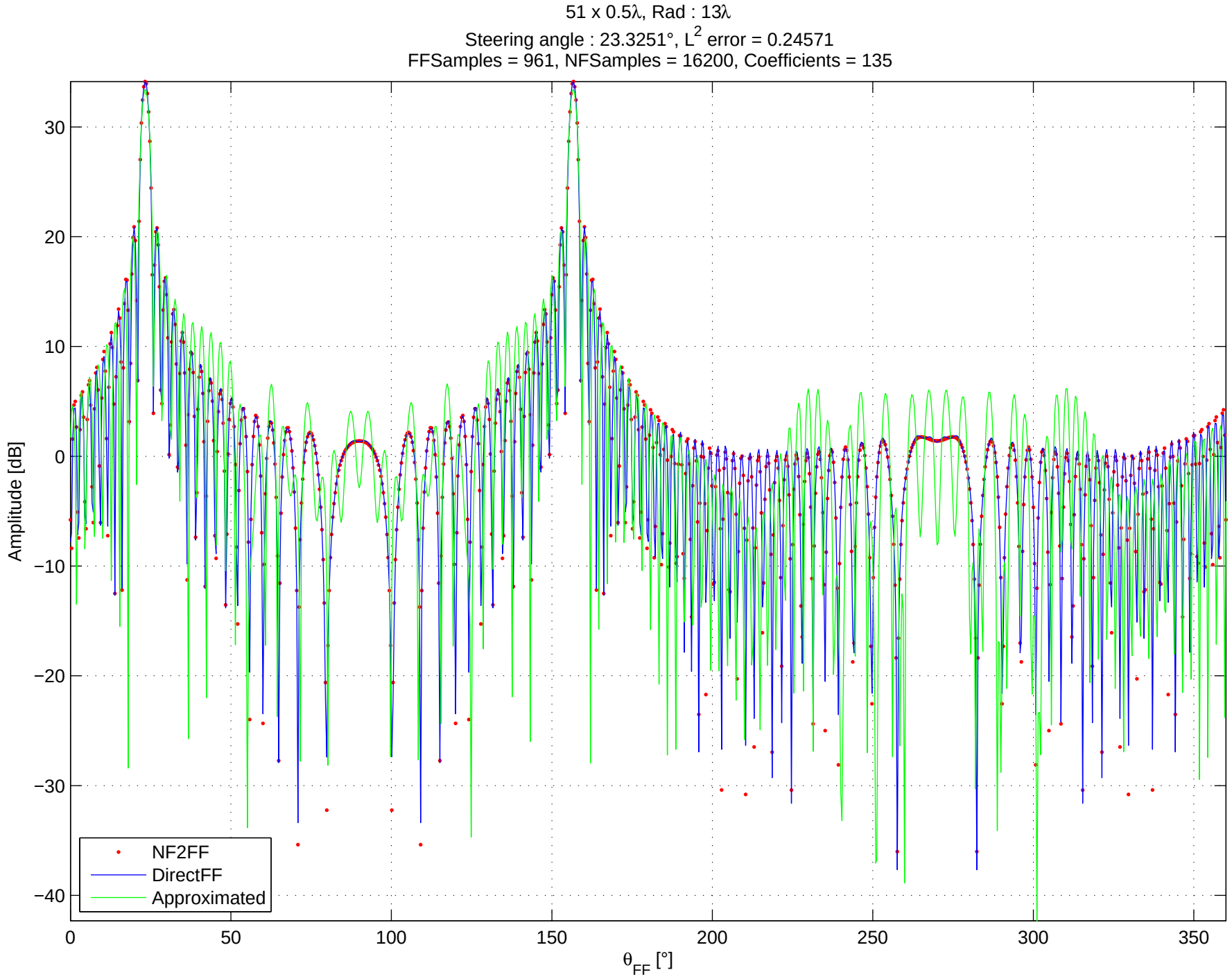
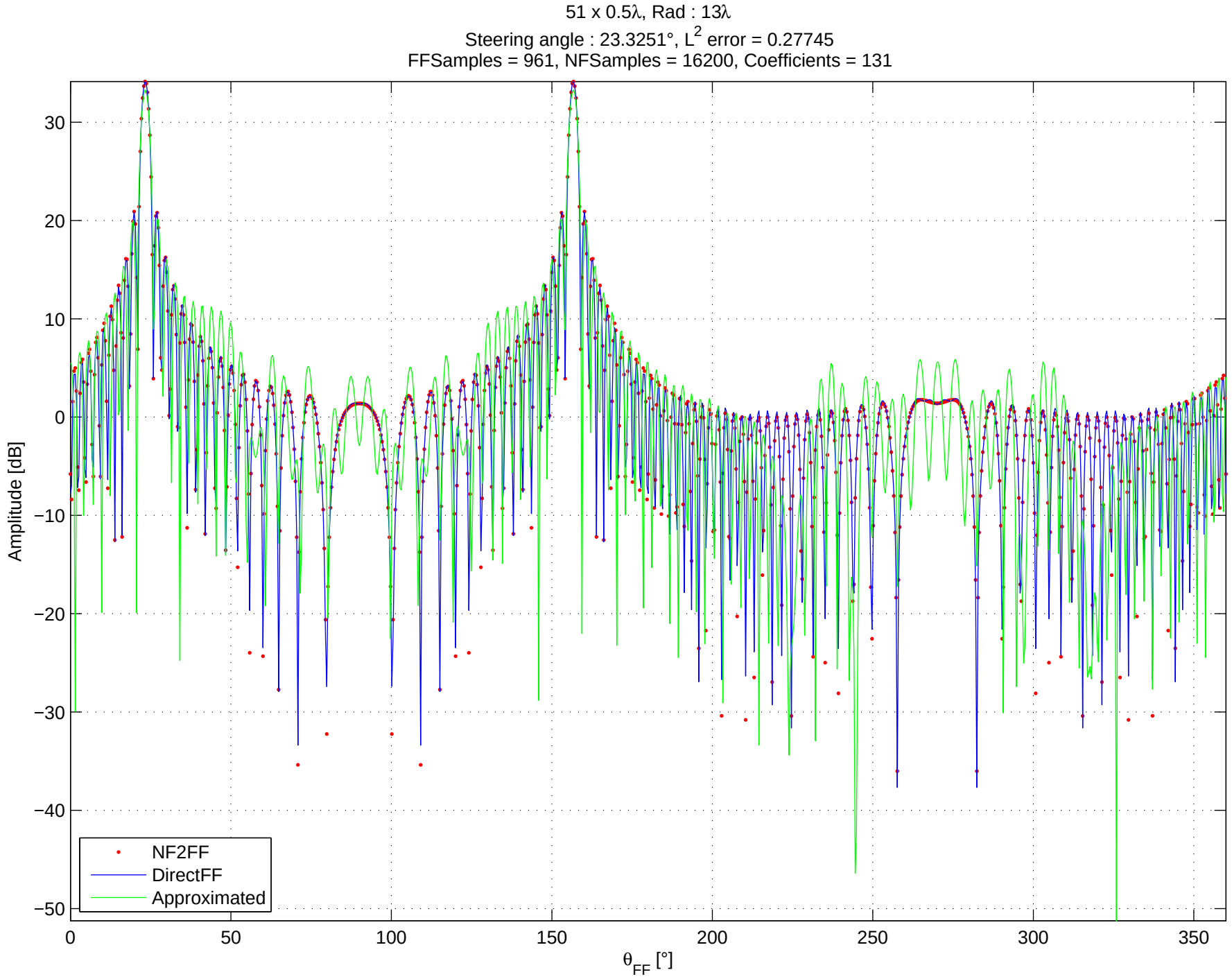
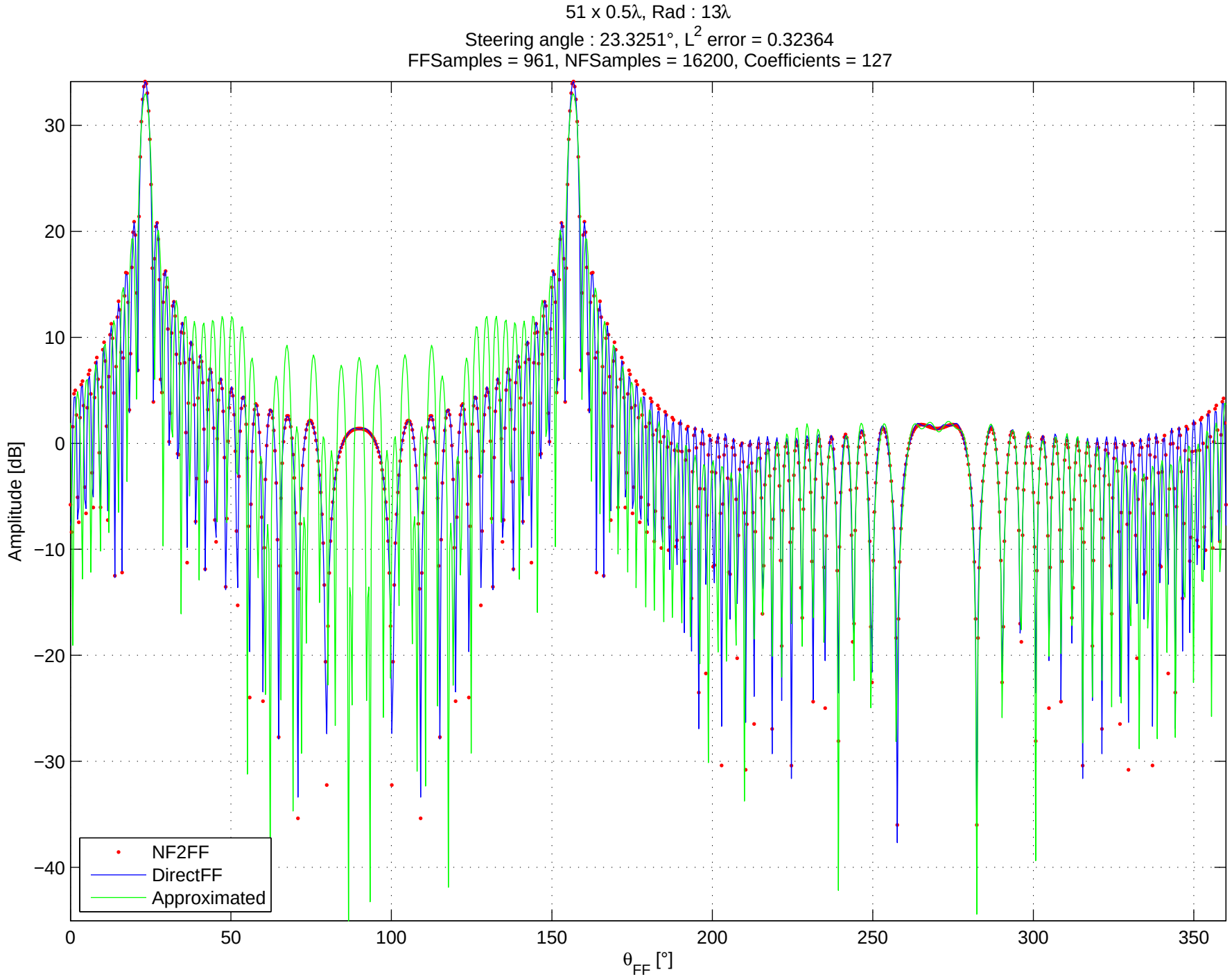
20
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.24571
FFSamples = 961, NFSamples = 16200, Coefficients = 135
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.27745
FFSamples = 961, NFSamples = 16200, Coefficients = 131
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
−50
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.32364
FFSamples = 961, NFSamples = 16200, Coefficients = 127
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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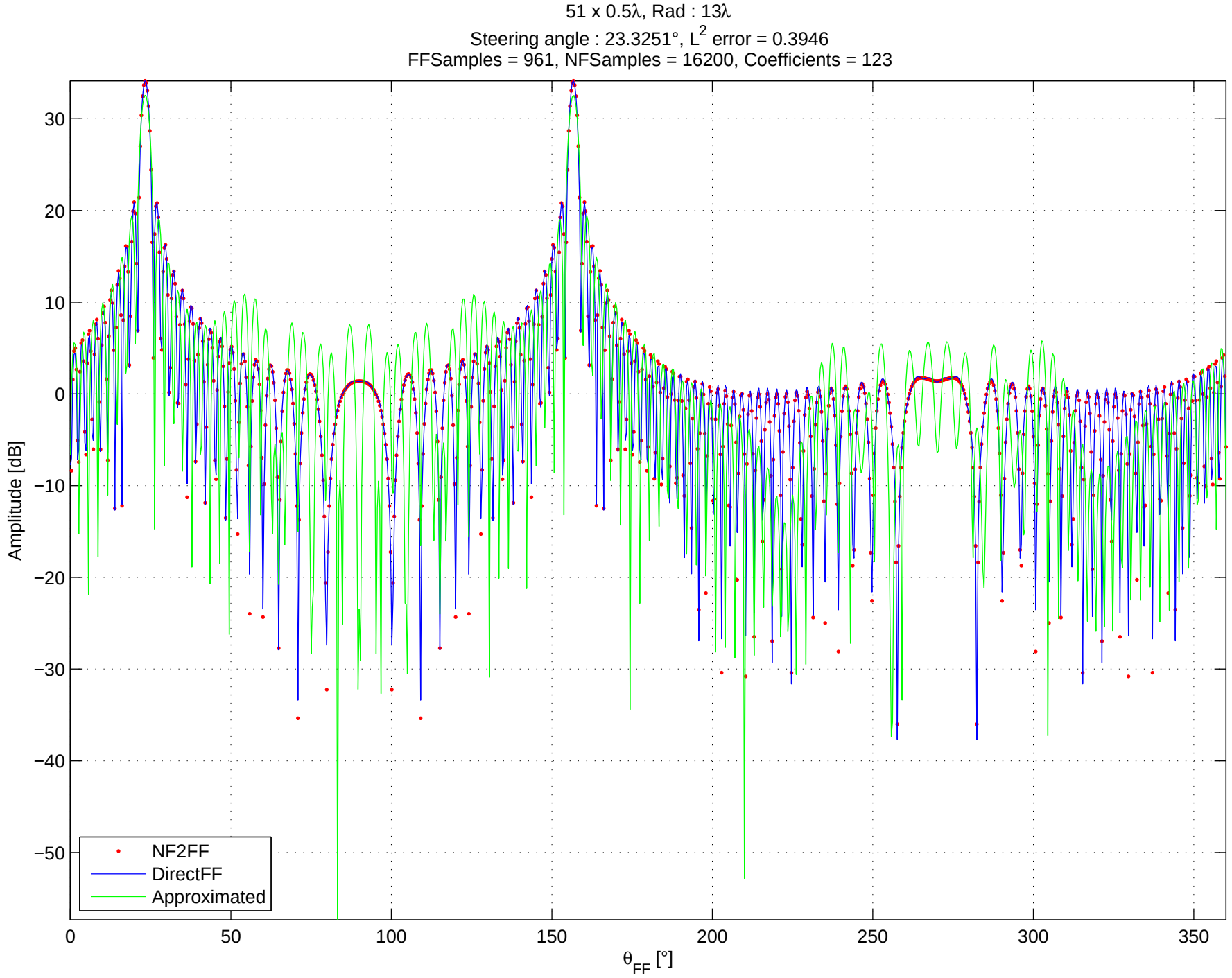
20
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.3946
FFSamples = 961, NFSamples = 16200, Coefficients = 123
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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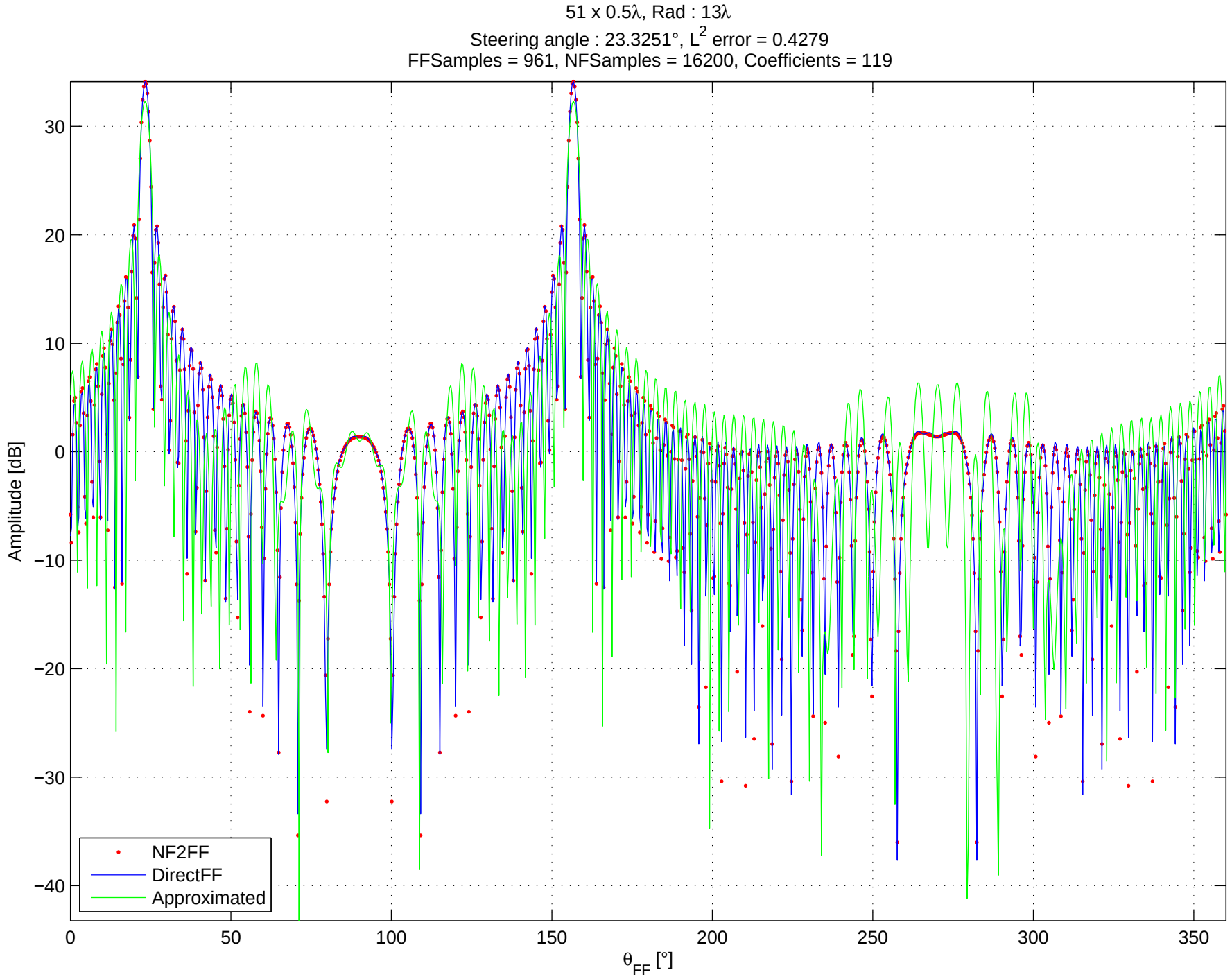
10
0
−10
−20
−30
−40
−50
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.4279
FFSamples = 961, NFSamples = 16200, Coefficients = 119
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
0
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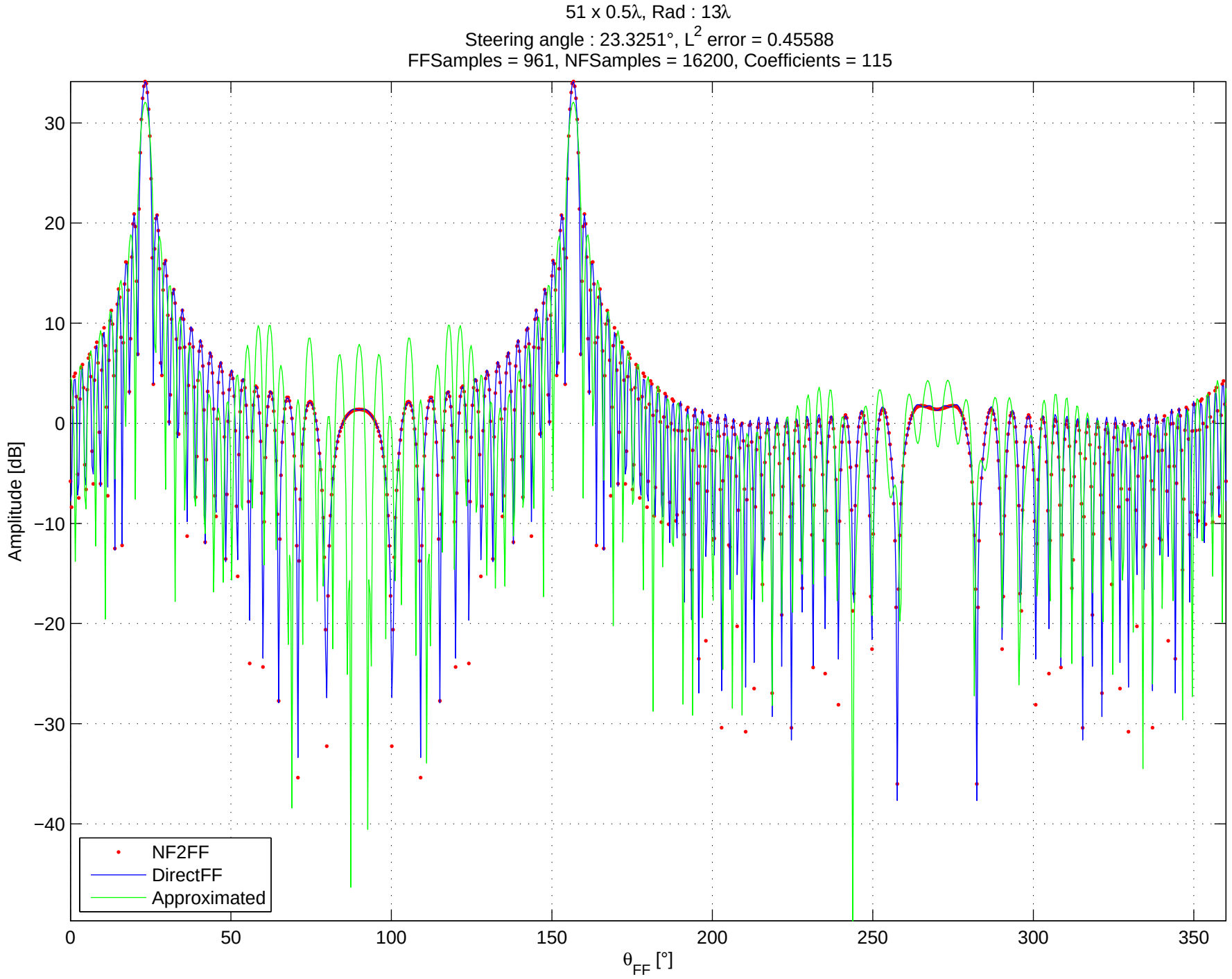
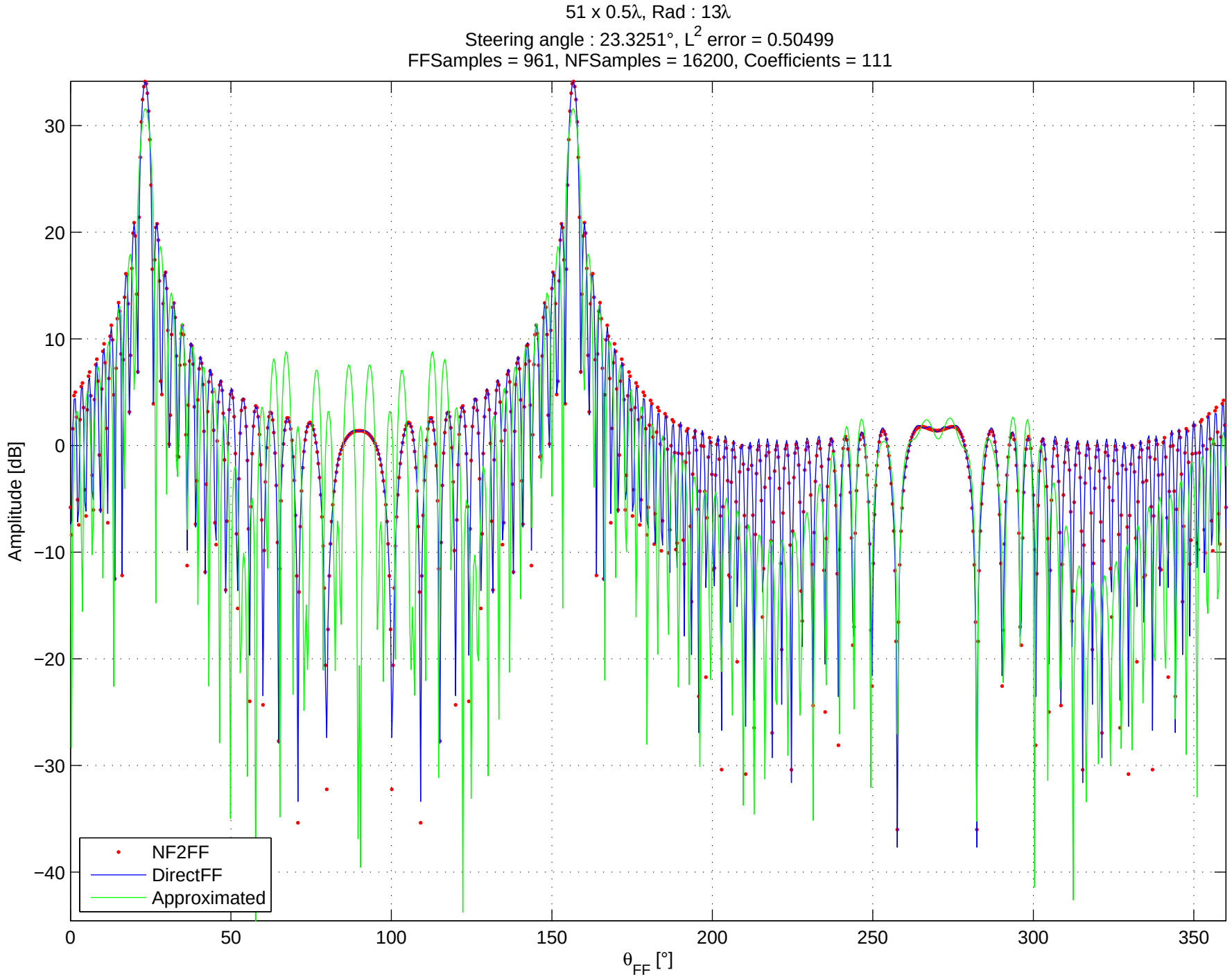
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.45588
FFSamples = 961, NFSamples = 16200, Coefficients = 115
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.50499
FFSamples = 961, NFSamples = 16200, Coefficients = 111
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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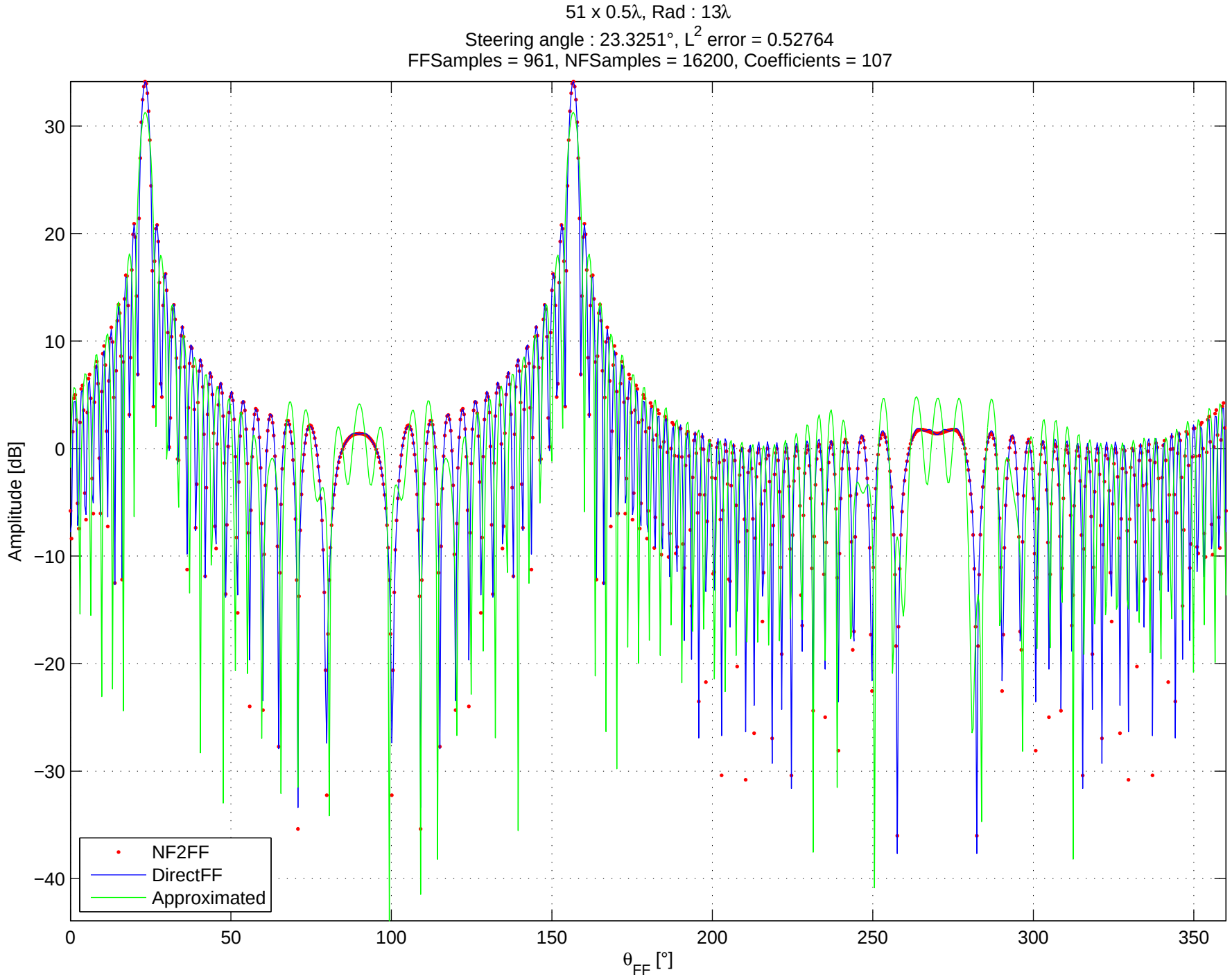
20
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.52764
FFSamples = 961, NFSamples = 16200, Coefficients = 107
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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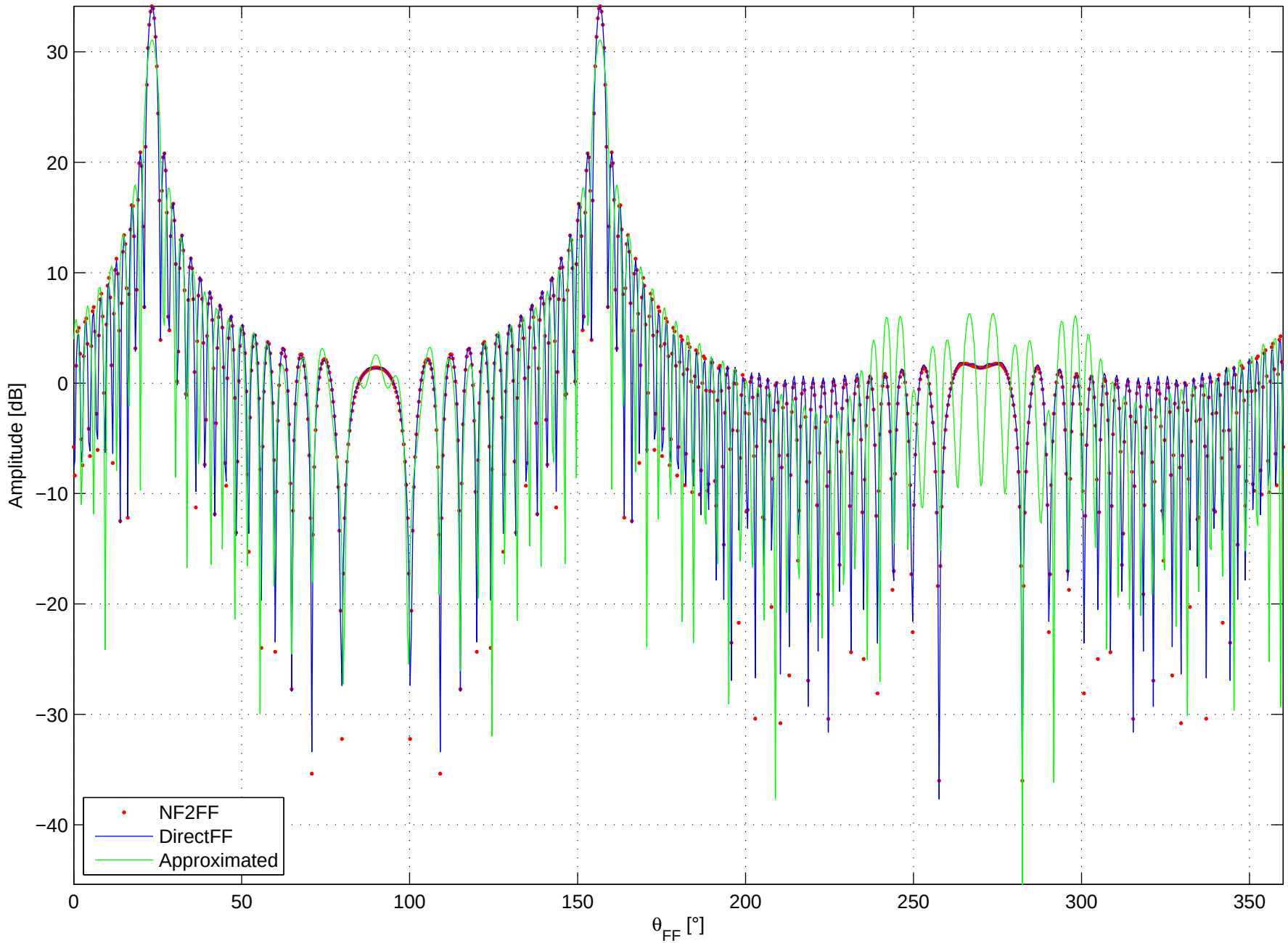
20
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.5407
FFSamples = 961, NFSamples = 16200, Coefficients = 103
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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20
10
0
−10
−20
−30
−40
0
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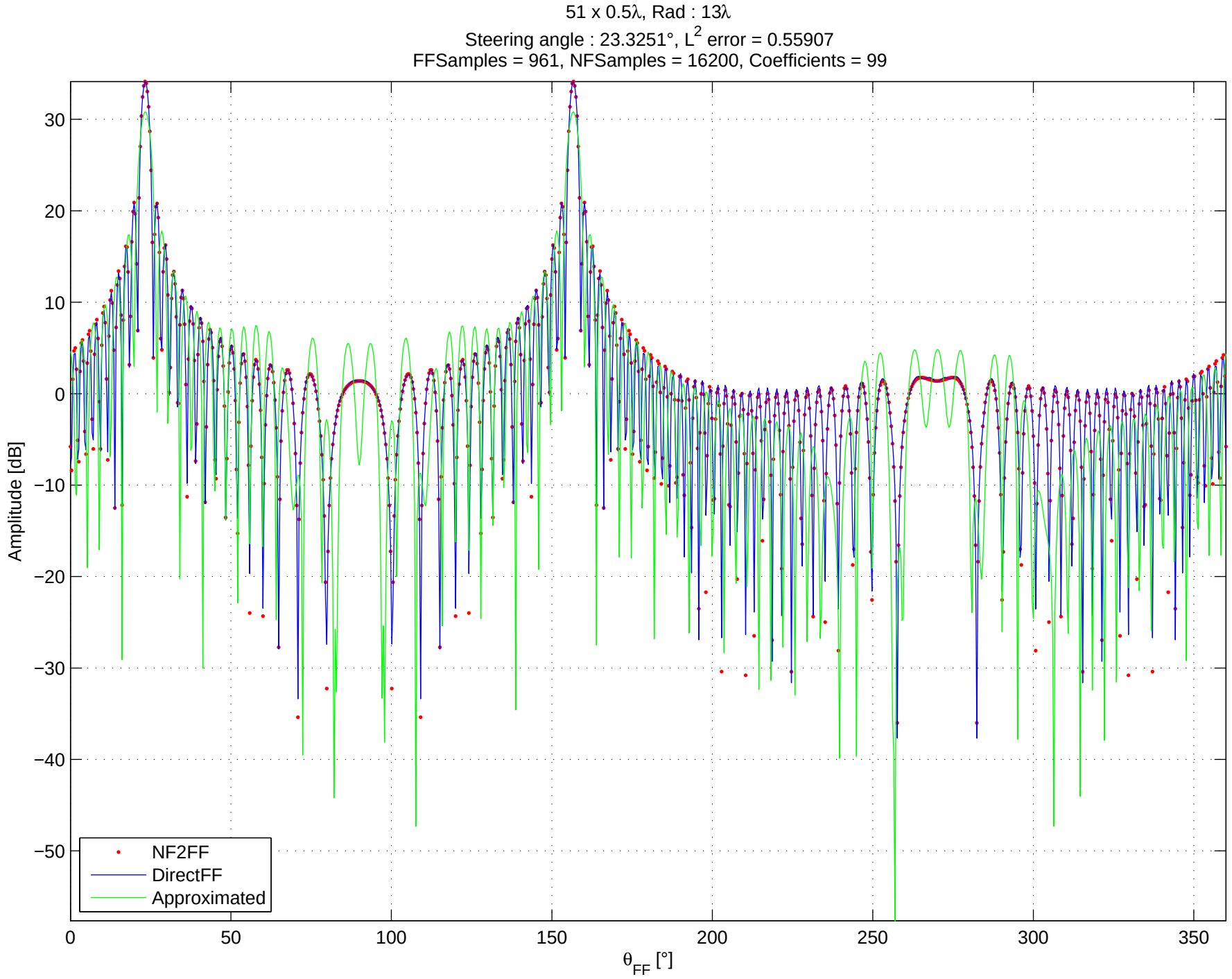
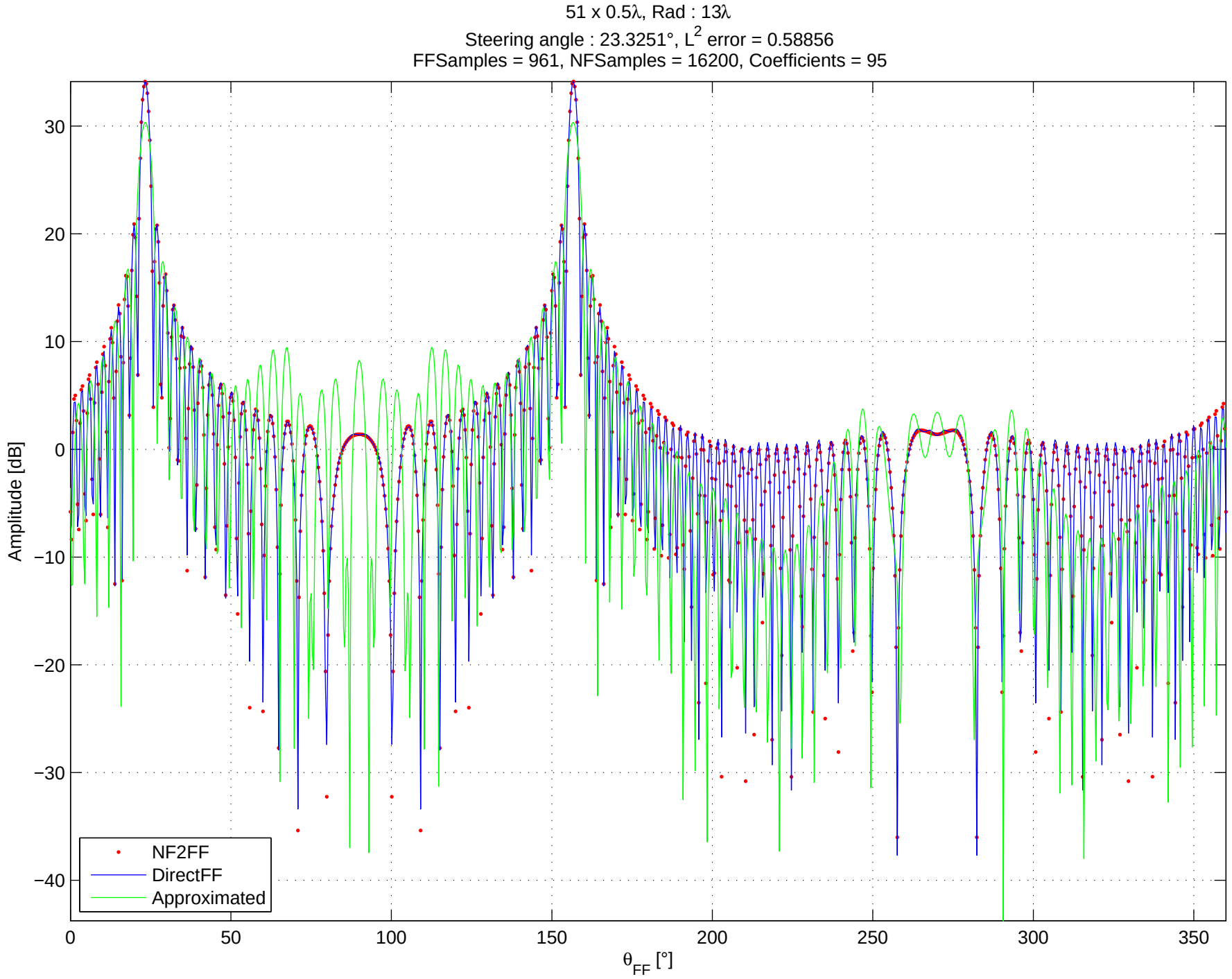
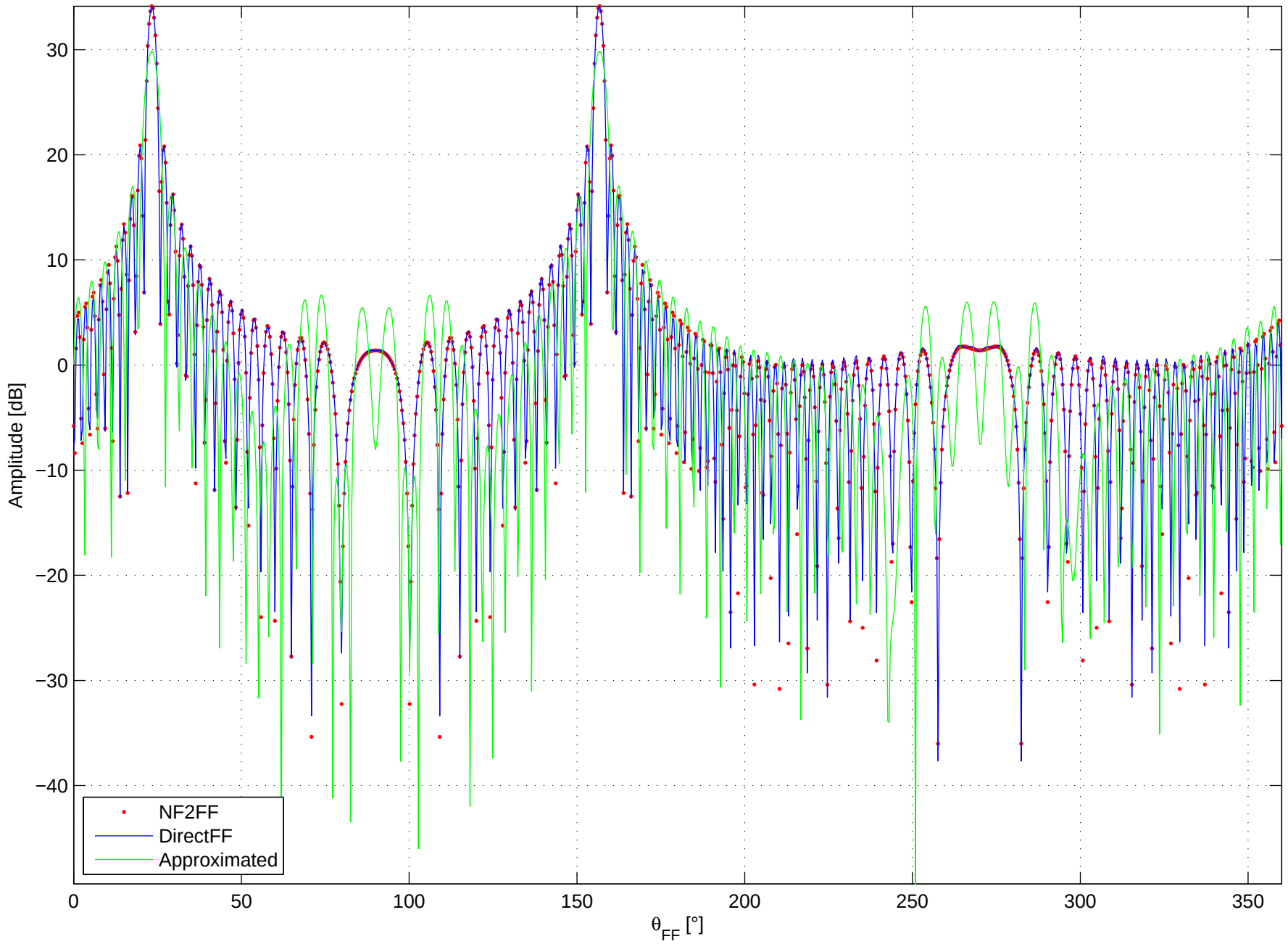
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.55907
FFSamples = 961, NFSamples = 16200, Coefficients = 99
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
−50
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.58856
FFSamples = 961, NFSamples = 16200, Coefficients = 95
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.62308
FFSamples = 961, NFSamples = 16200, Coefficients = 91
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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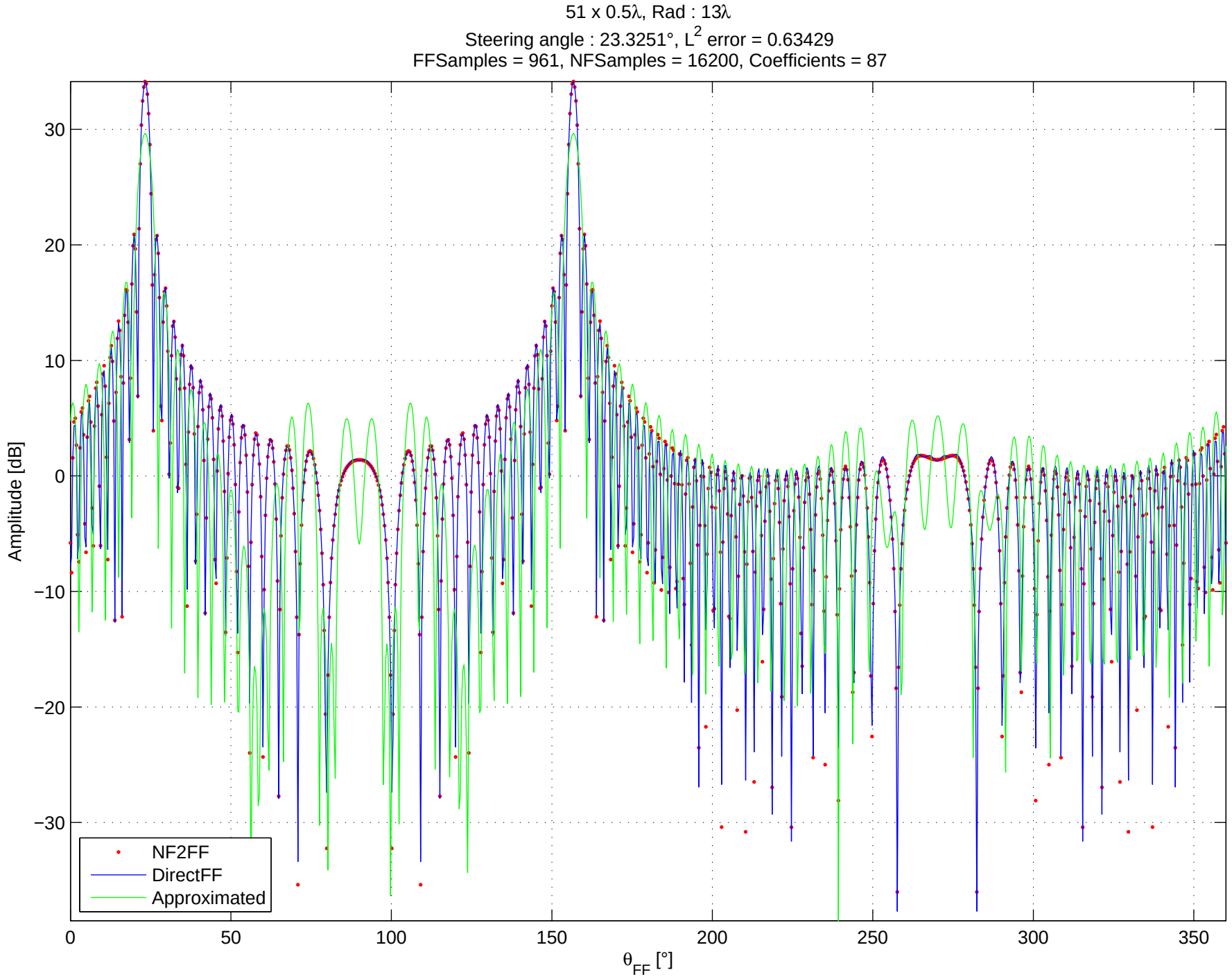
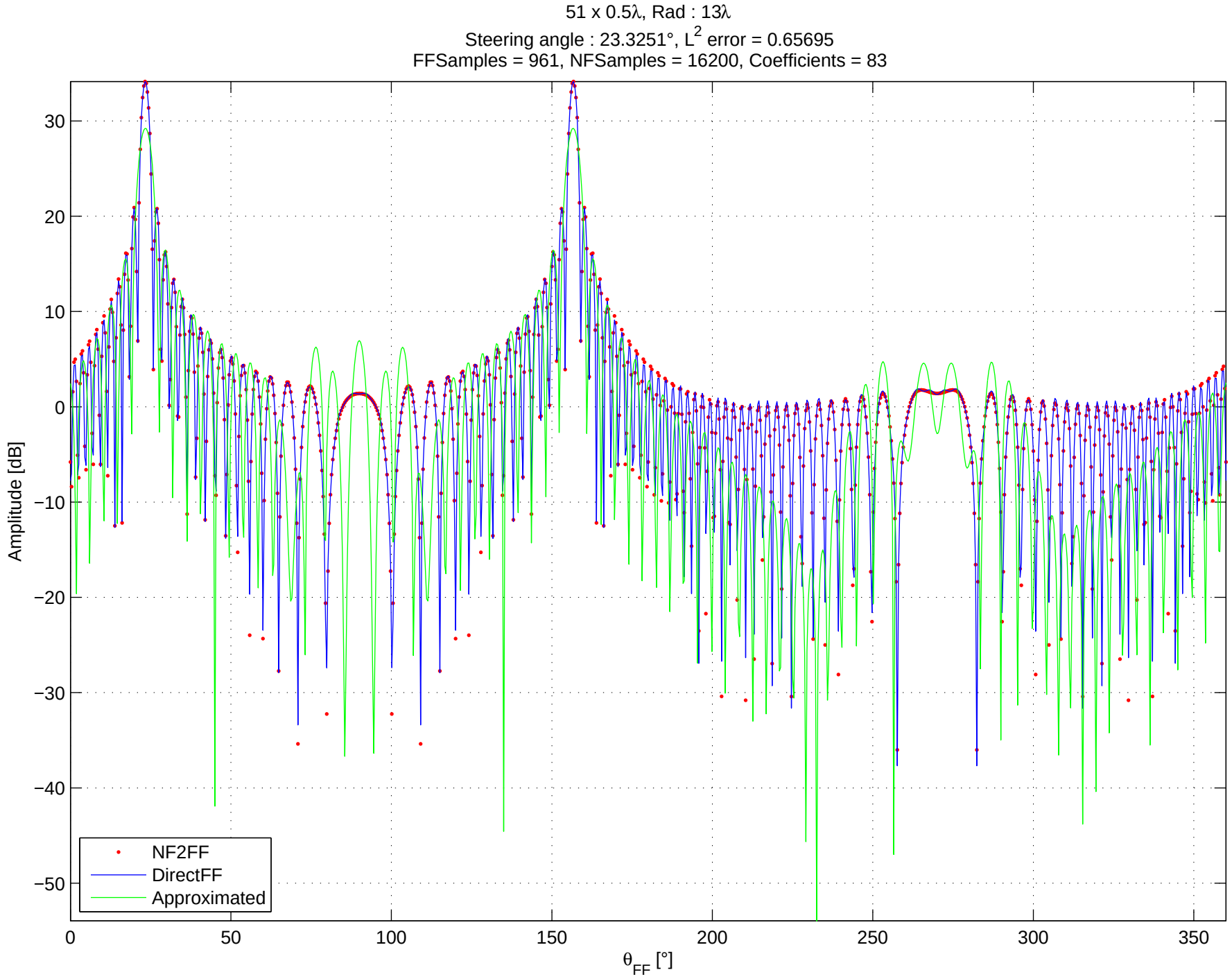
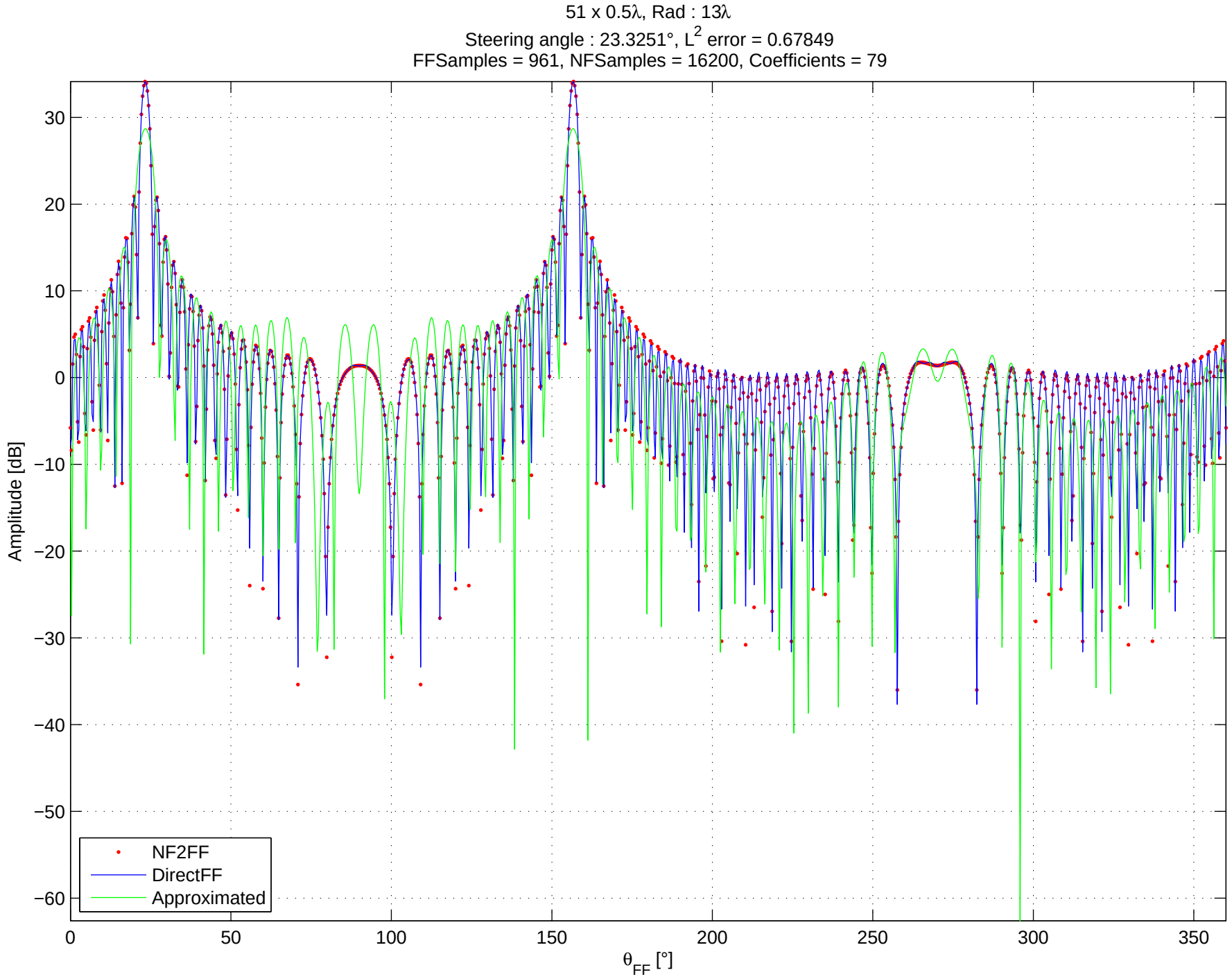
20
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.63429
FFSamples = 961, NFSamples = 16200, Coefficients = 87
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.65695
FFSamples = 961, NFSamples = 16200, Coefficients = 83
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
−50
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.67849
FFSamples = 961, NFSamples = 16200, Coefficients = 79
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
−50
−60
0
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100
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200
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300
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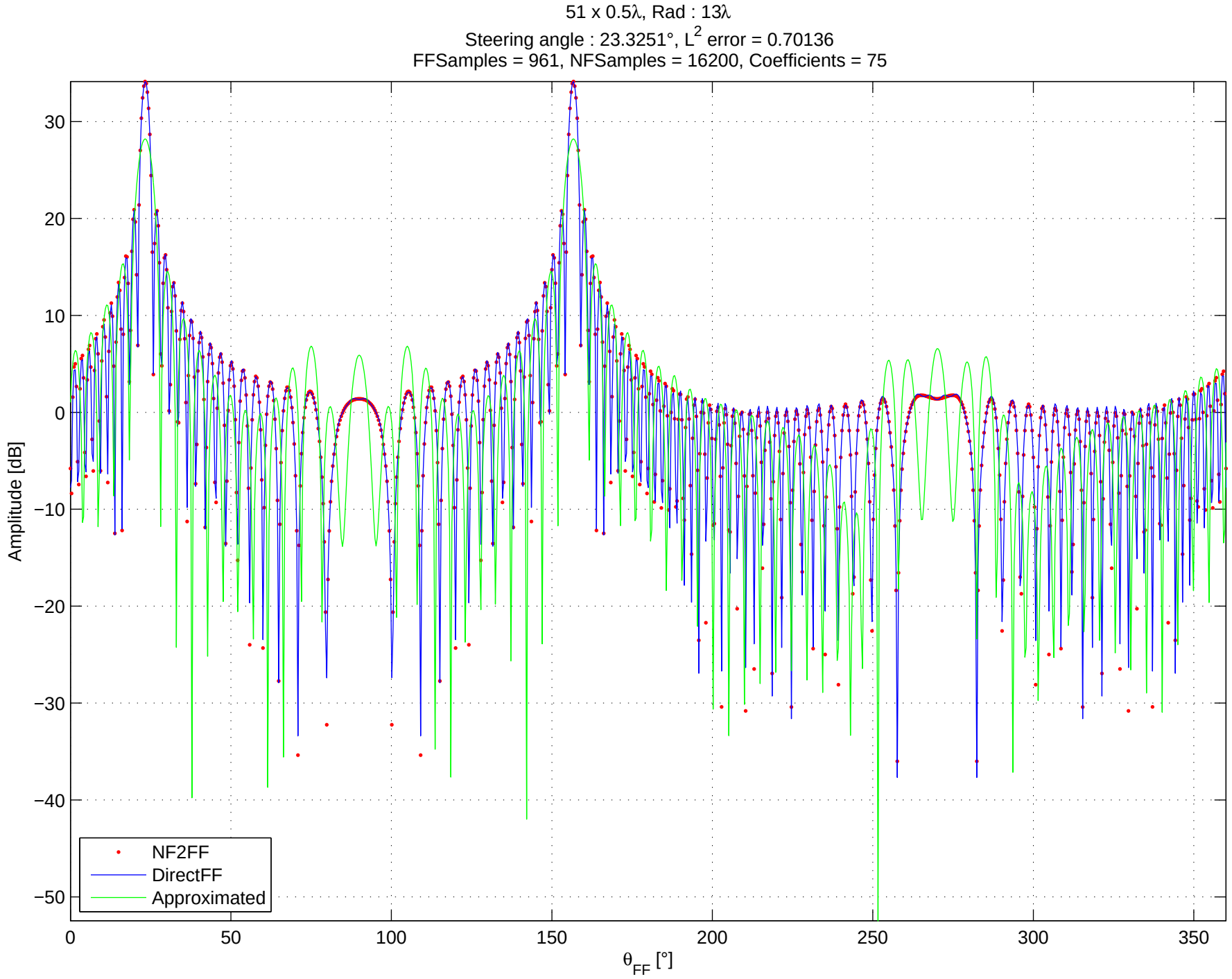
51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.70136
FFSamples = 961, NFSamples = 16200, Coefficients = 75
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
−50
0
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100
150
200
250
300
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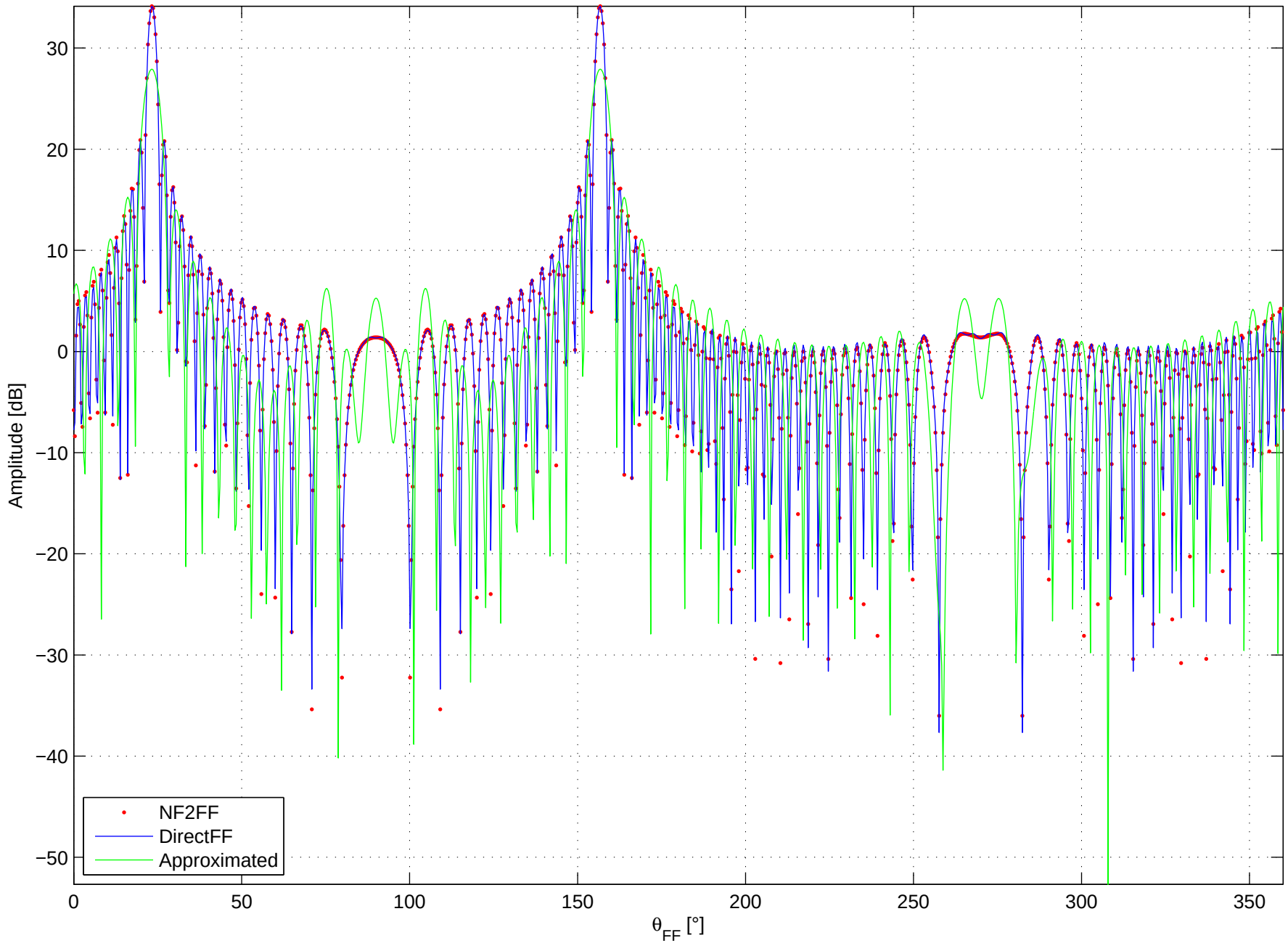
51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.71341
FFSamples = 961, NFSamples = 16200, Coefficients = 71
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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0
−10
−20
−30
−40
−50
0
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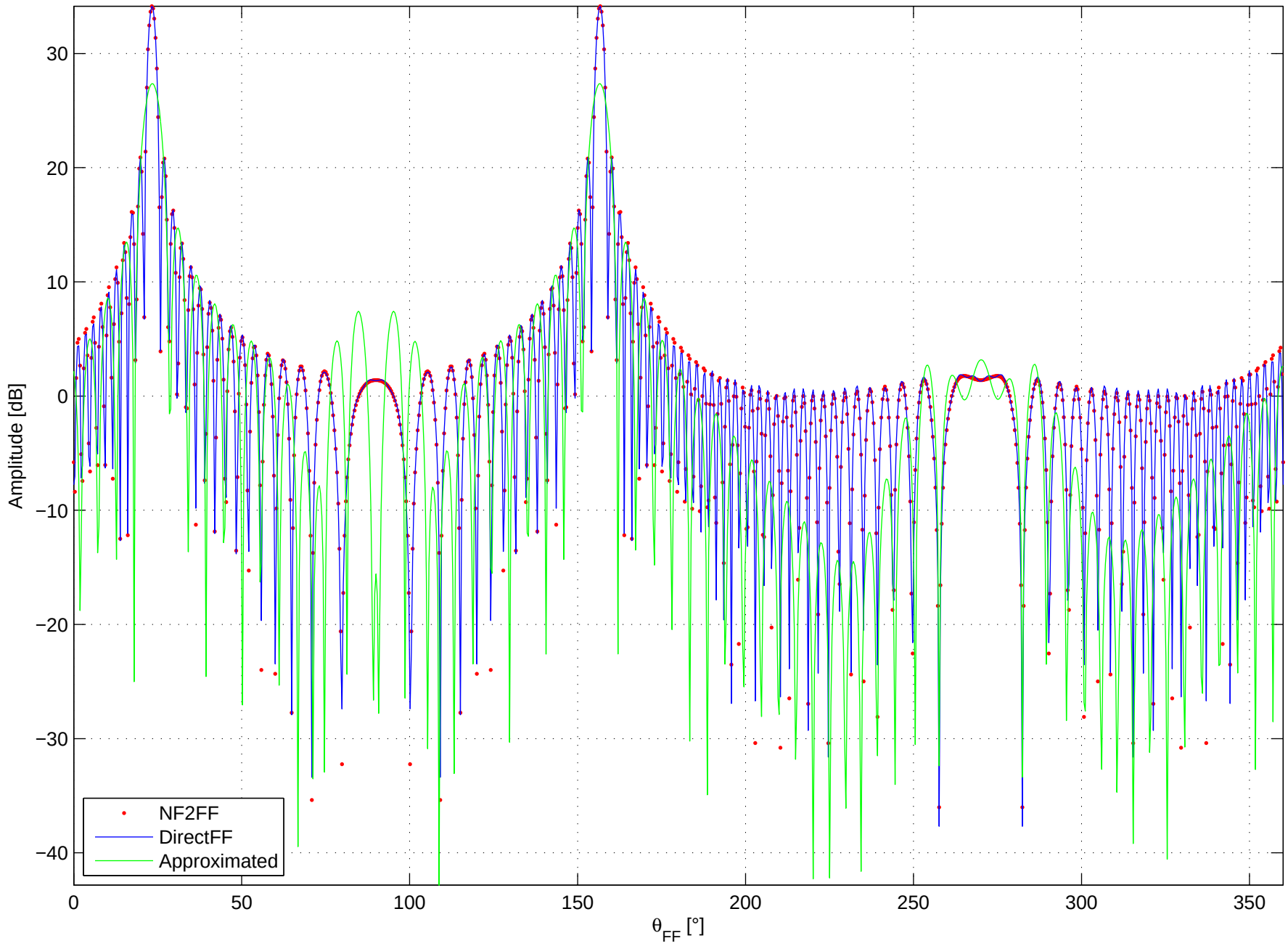
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.73639
FFSamples = 961, NFSamples = 16200, Coefficients = 67
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
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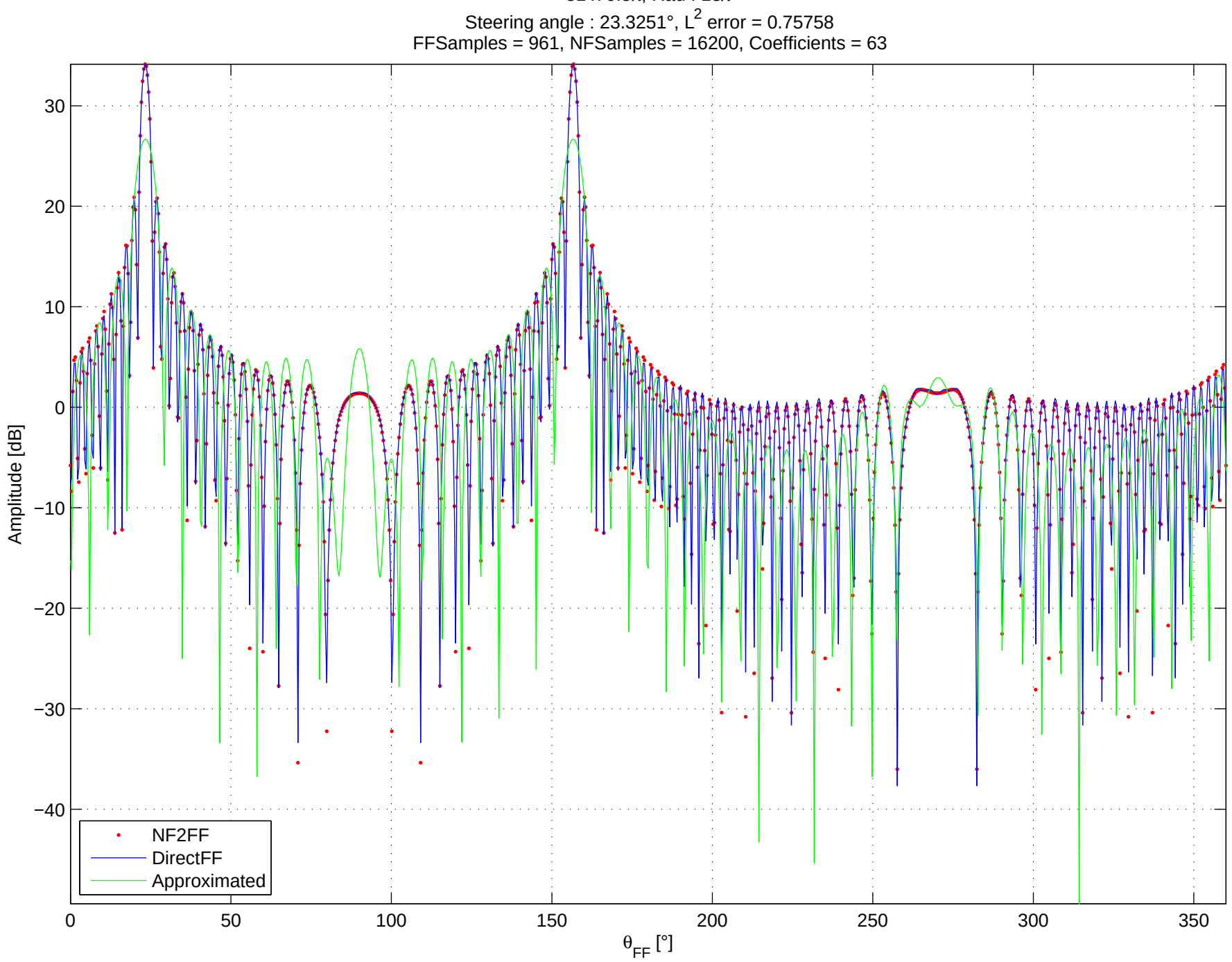
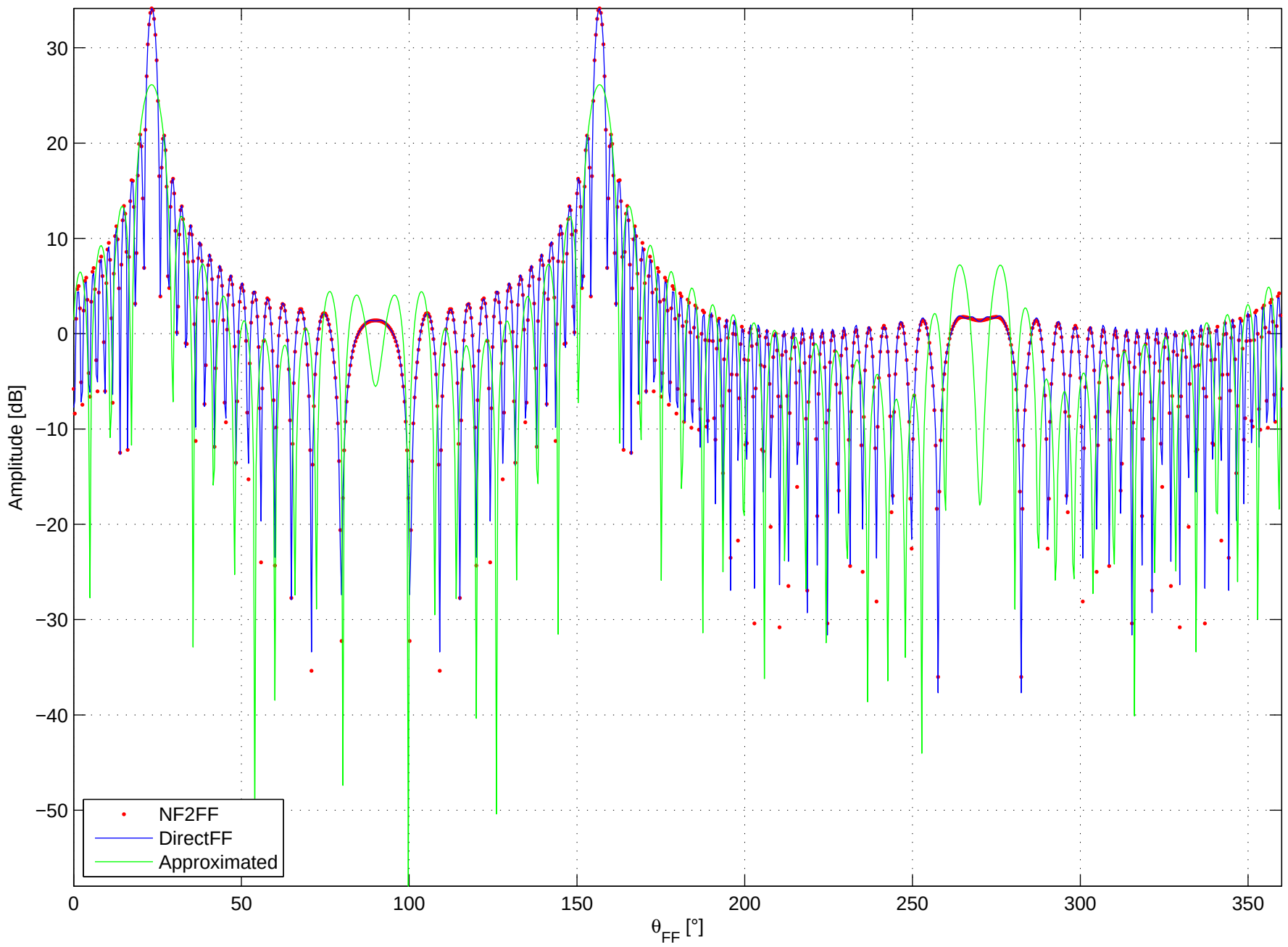
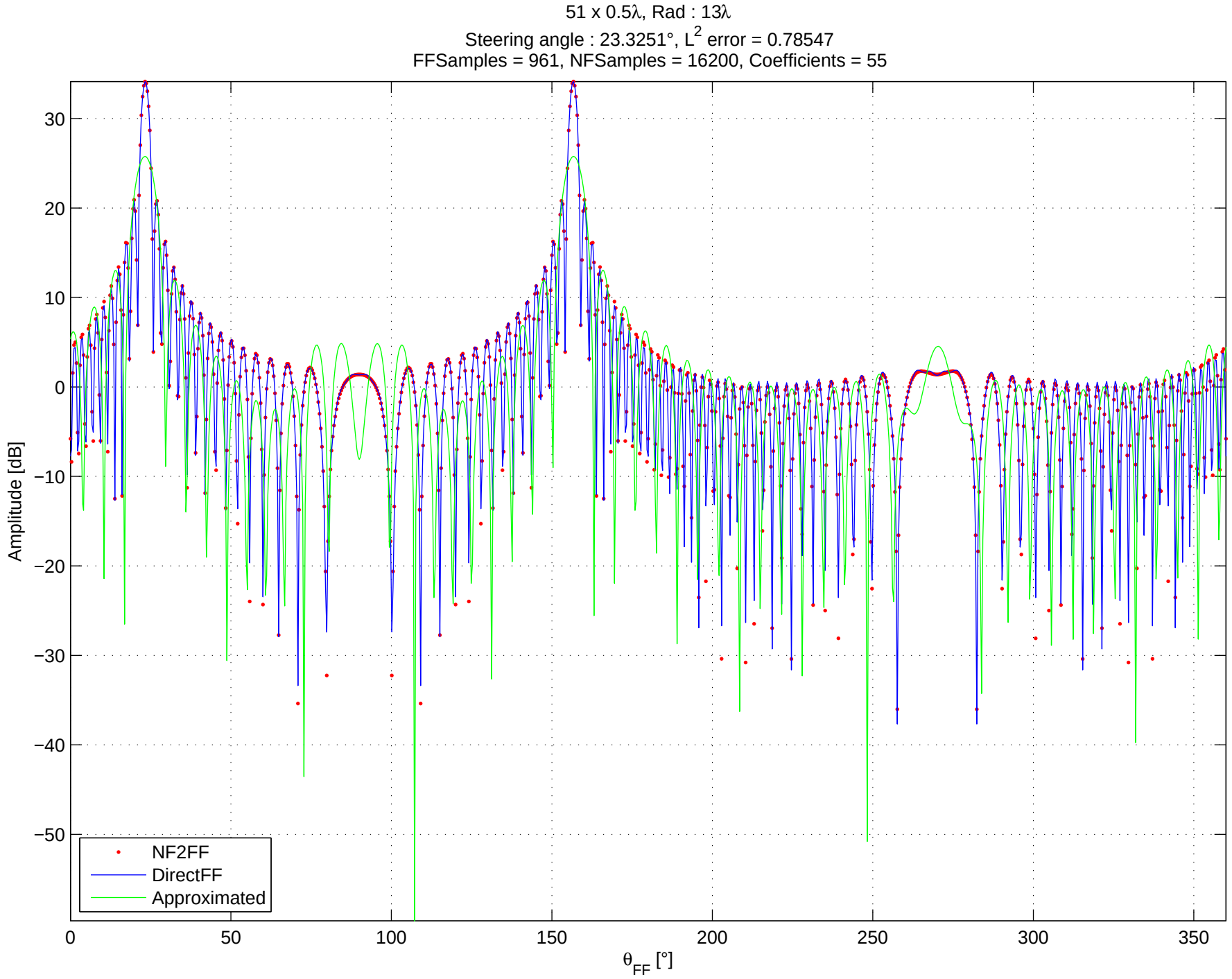
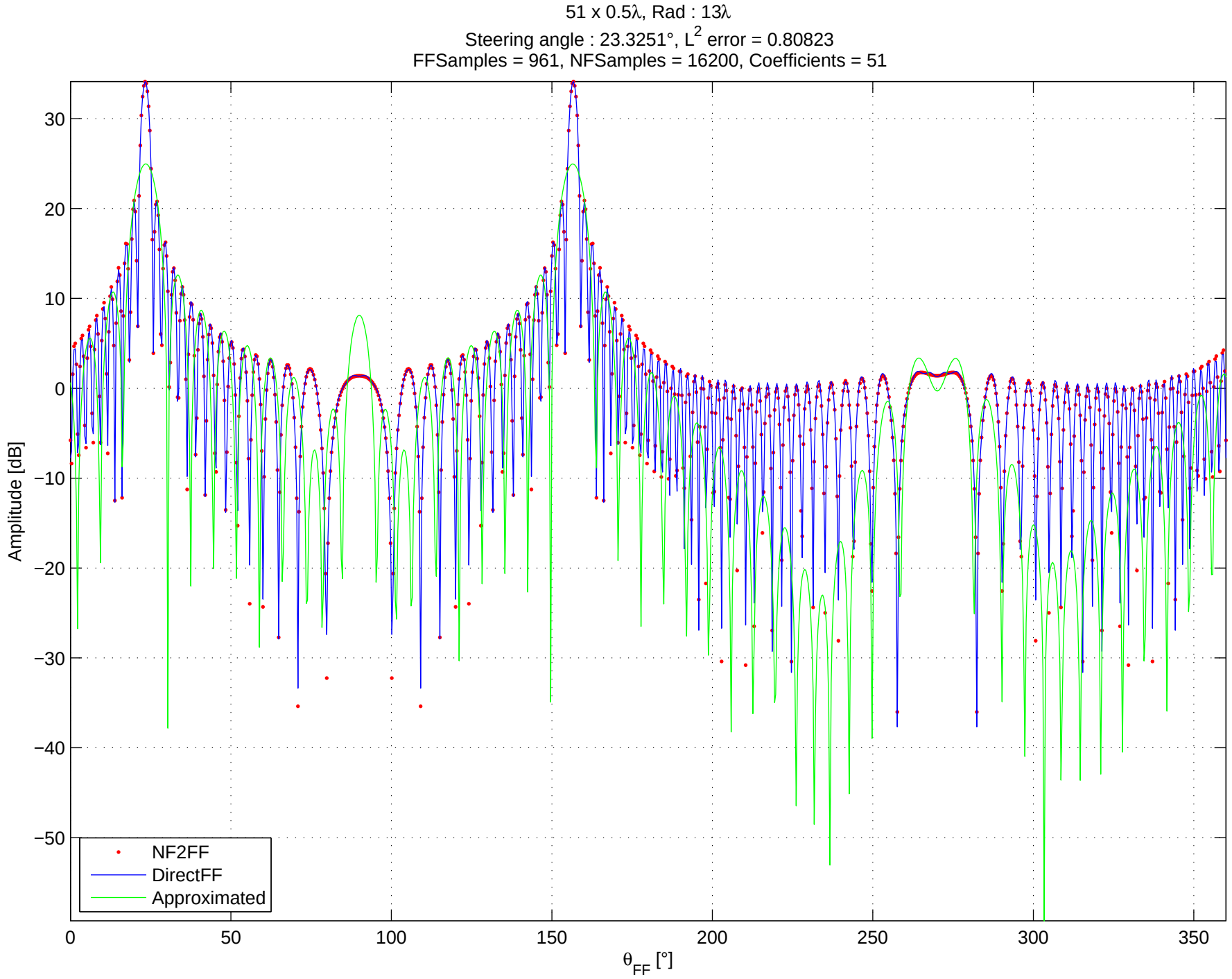

51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.75758
FFSamples = 961, NFSamples = 16200, Coefficients = 63
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.77443
FFSamples = 961, NFSamples = 16200, Coefficients = 59
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
−50
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.78547
FFSamples = 961, NFSamples = 16200, Coefficients = 55
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
−50
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.80823
FFSamples = 961, NFSamples = 16200, Coefficients = 51
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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0
−10
−20
−30
−40
−50
0
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100
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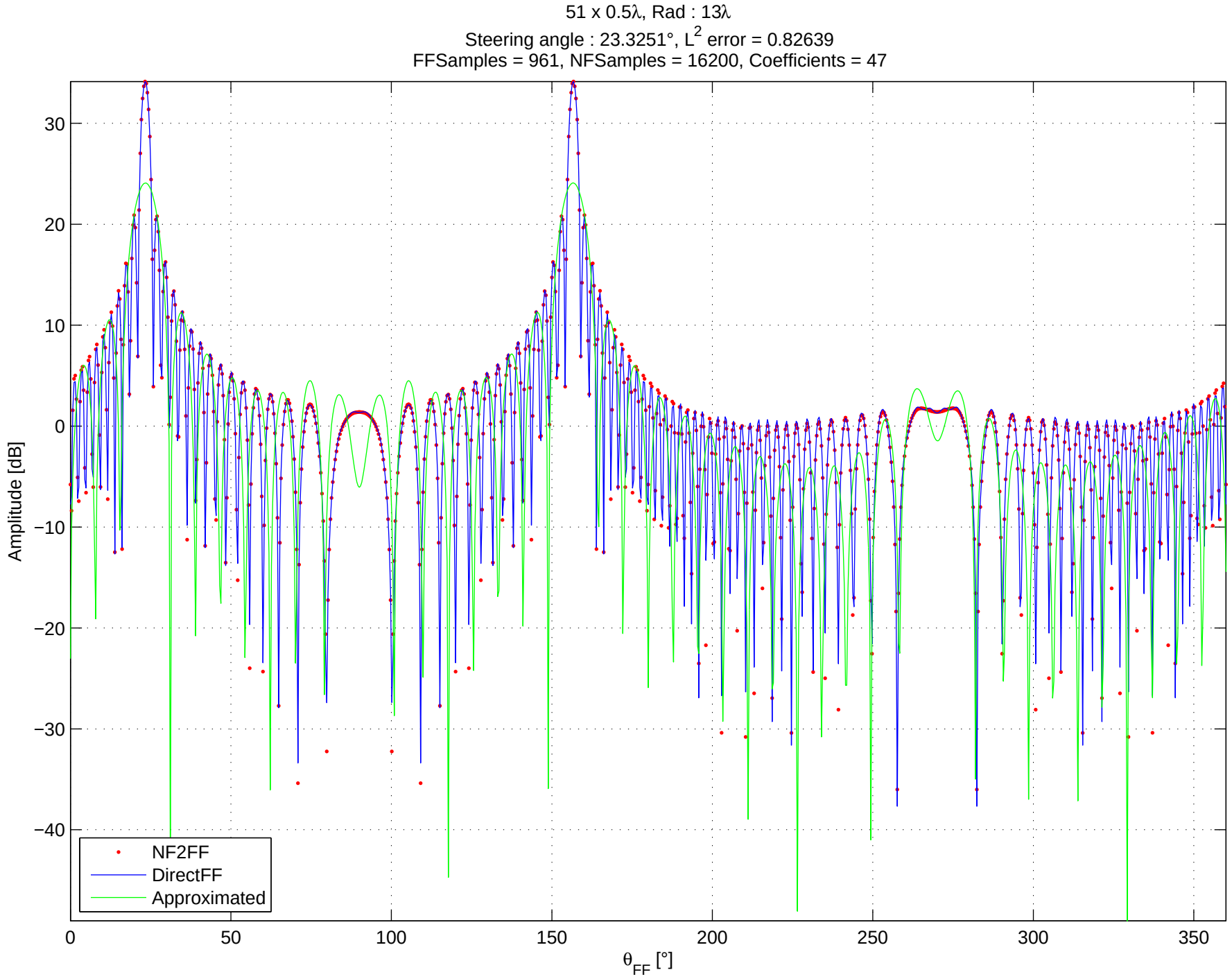
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.82639
FFSamples = 961, NFSamples = 16200, Coefficients = 47
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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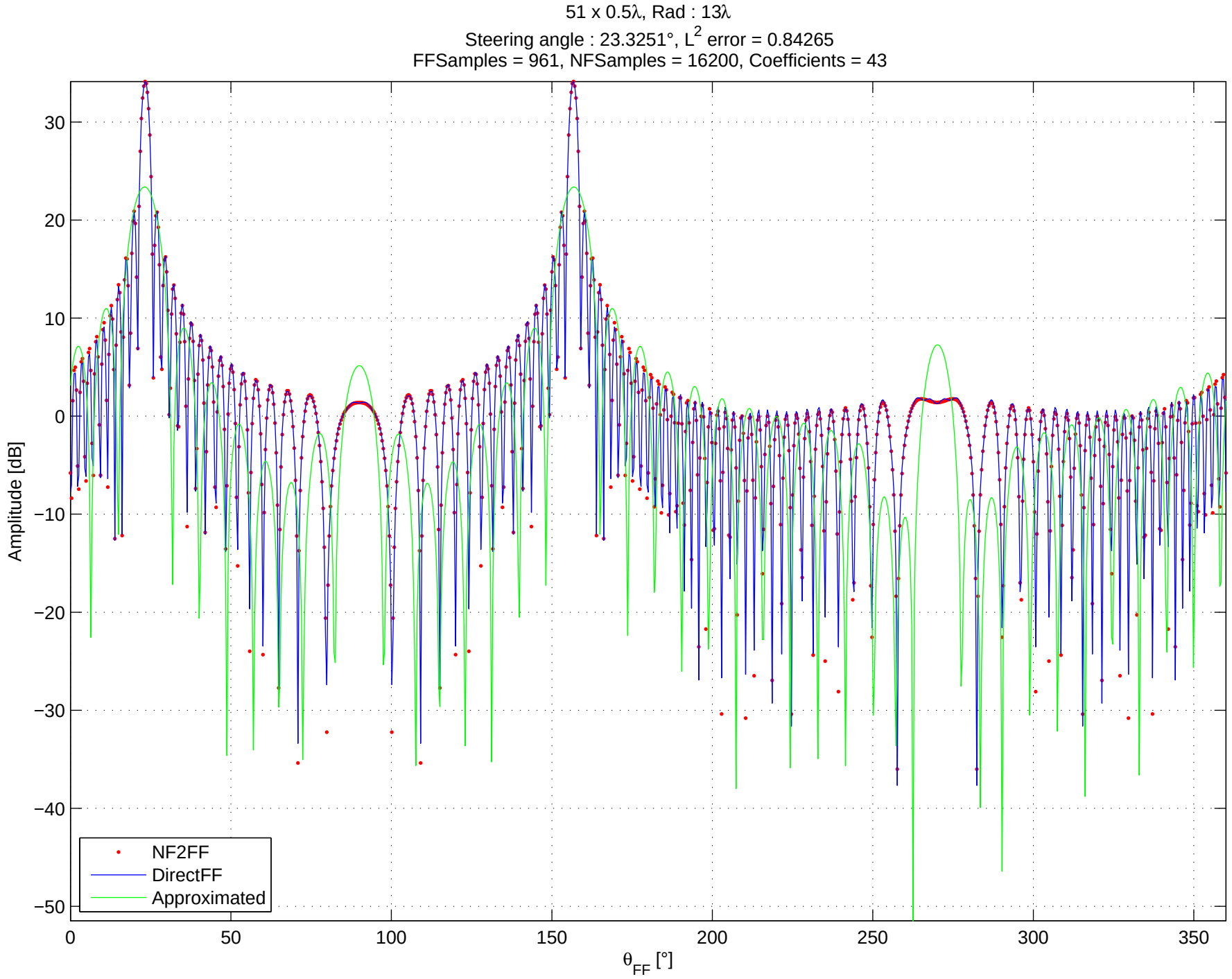
10
0
−10
−20
−30
−40
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.84265
FFSamples = 961, NFSamples = 16200, Coefficients = 43
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
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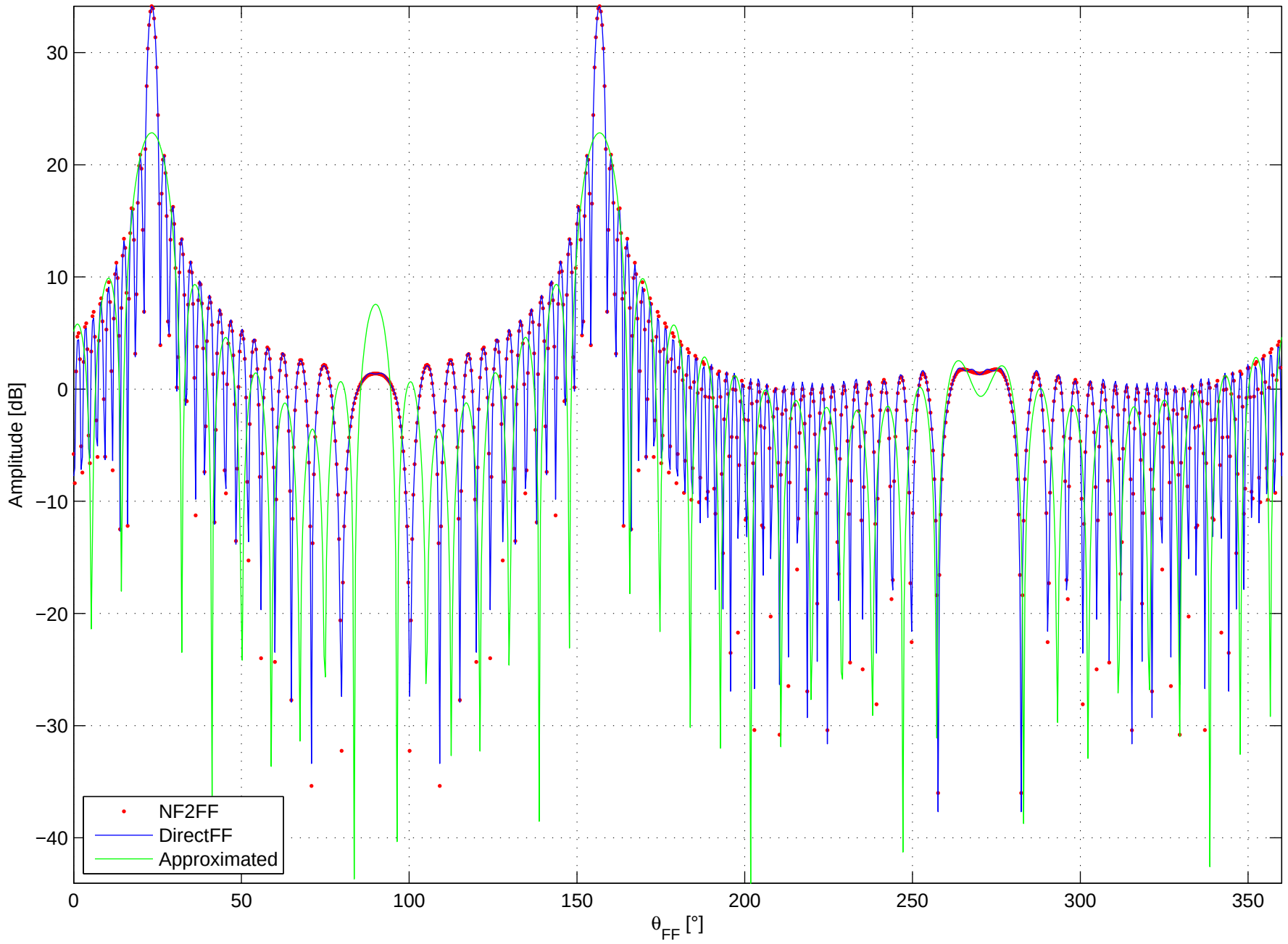
0
−10
−20
−30
−40
−50
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.85195
FFSamples = 961, NFSamples = 16200, Coefficients = 39
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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20
10
0
−10
−20
−30
−40
0
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100
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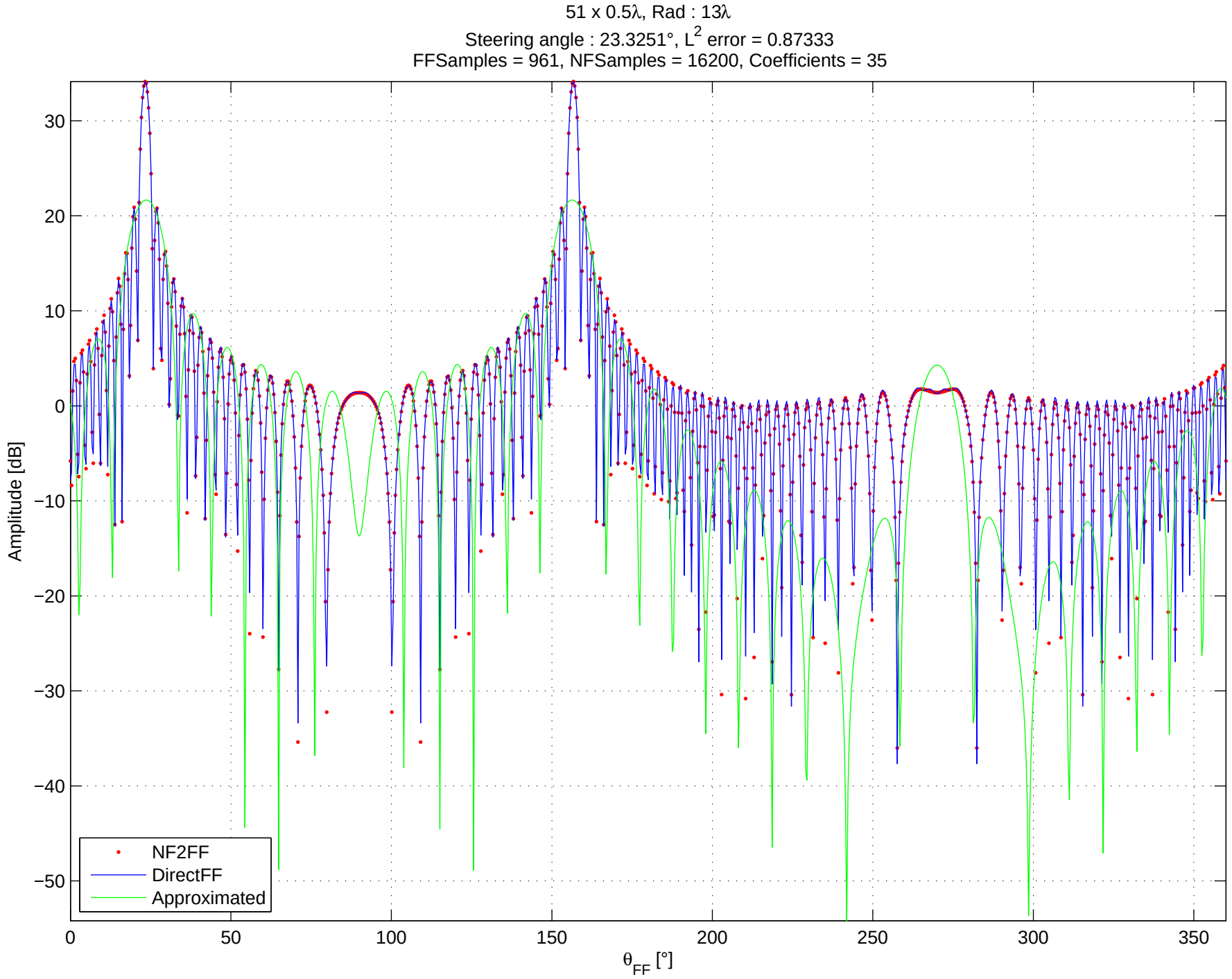
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.87333
FFSamples = 961, NFSamples = 16200, Coefficients = 35
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
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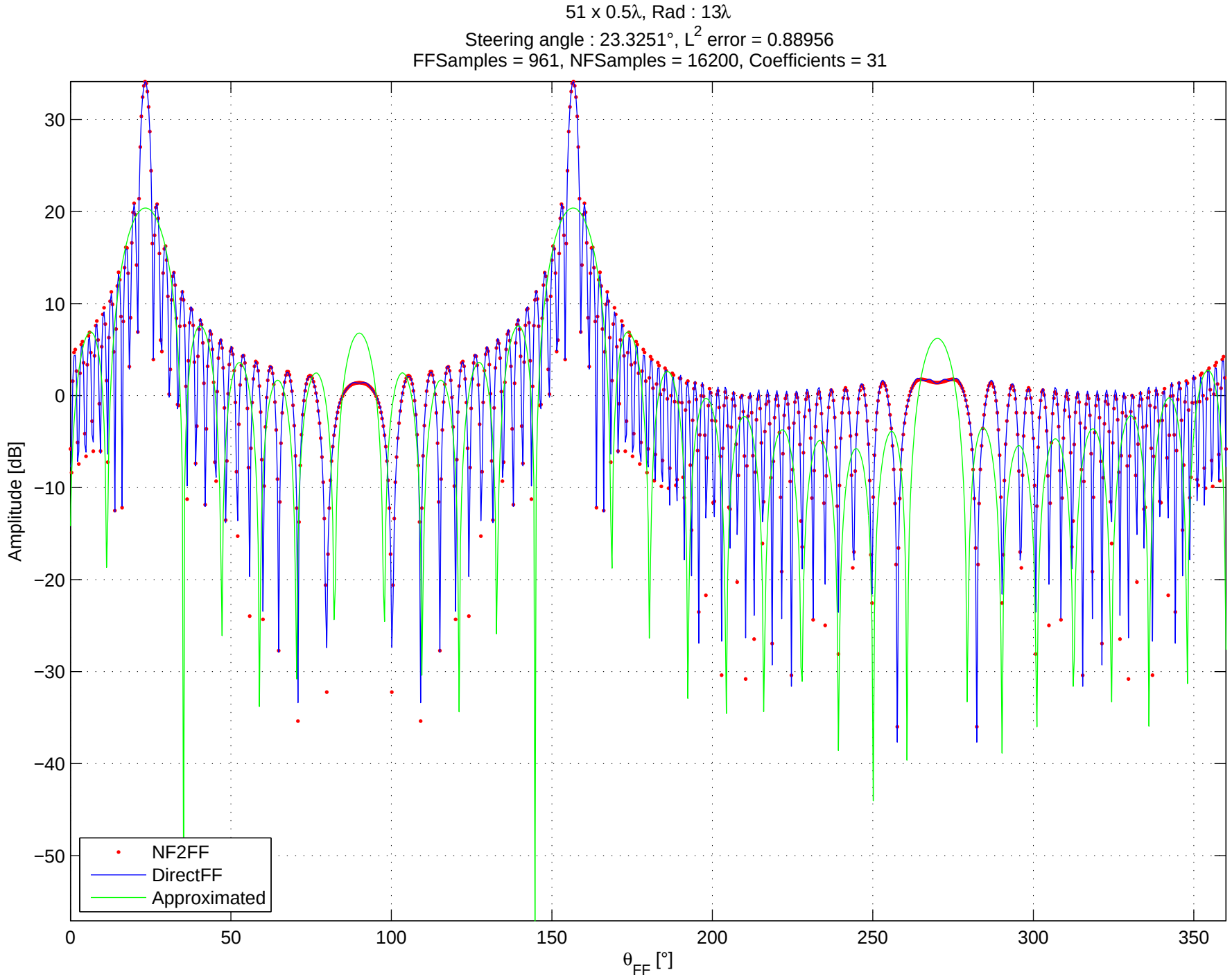
0
−10
−20
−30
−40
−50
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.88956
FFSamples = 961, NFSamples = 16200, Coefficients = 31
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
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10
0
−10
−20
−30
−40
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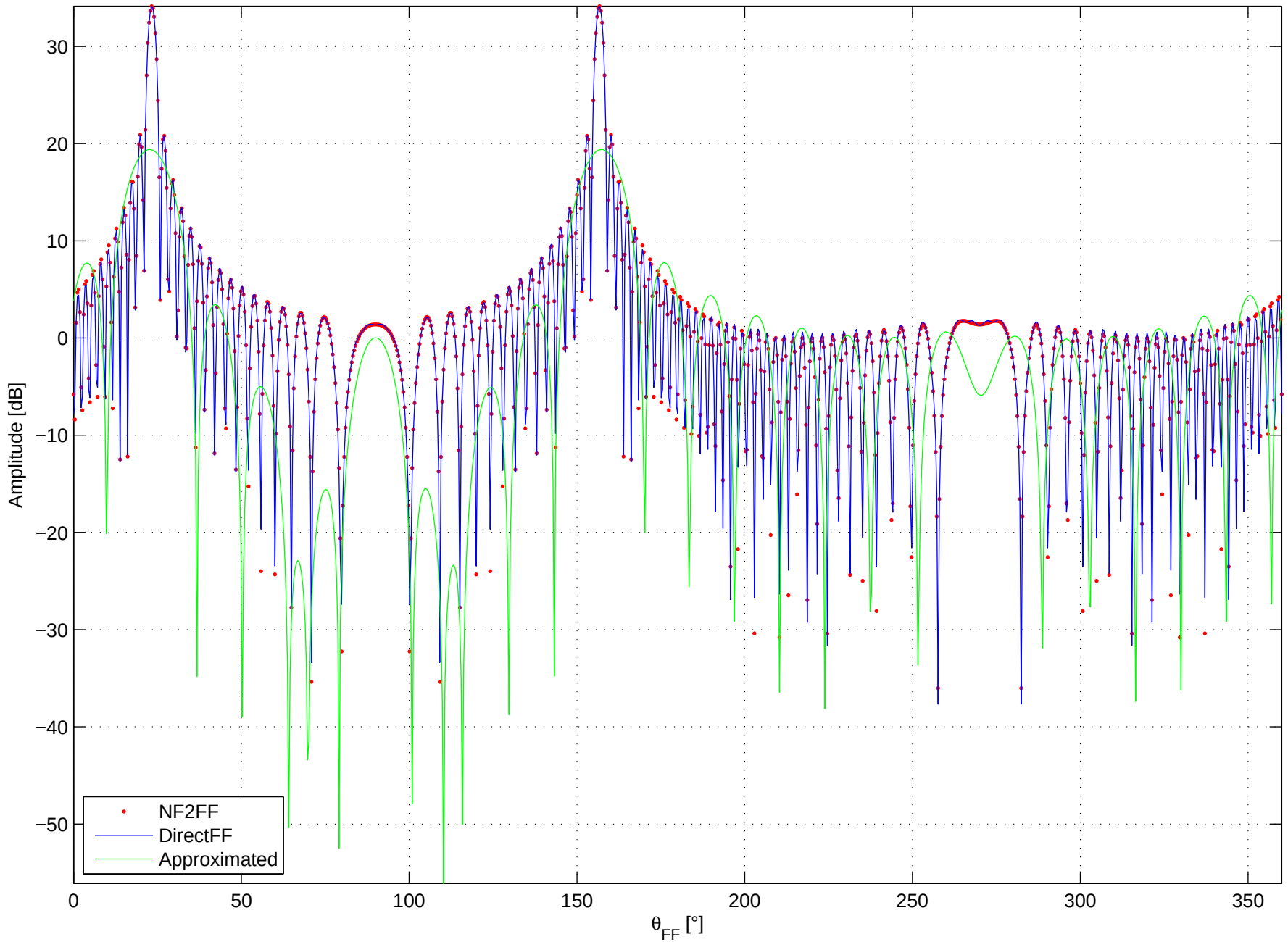
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.90426
FFSamples = 961, NFSamples = 16200, Coefficients = 27
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
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10
0
−10
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−30
−40
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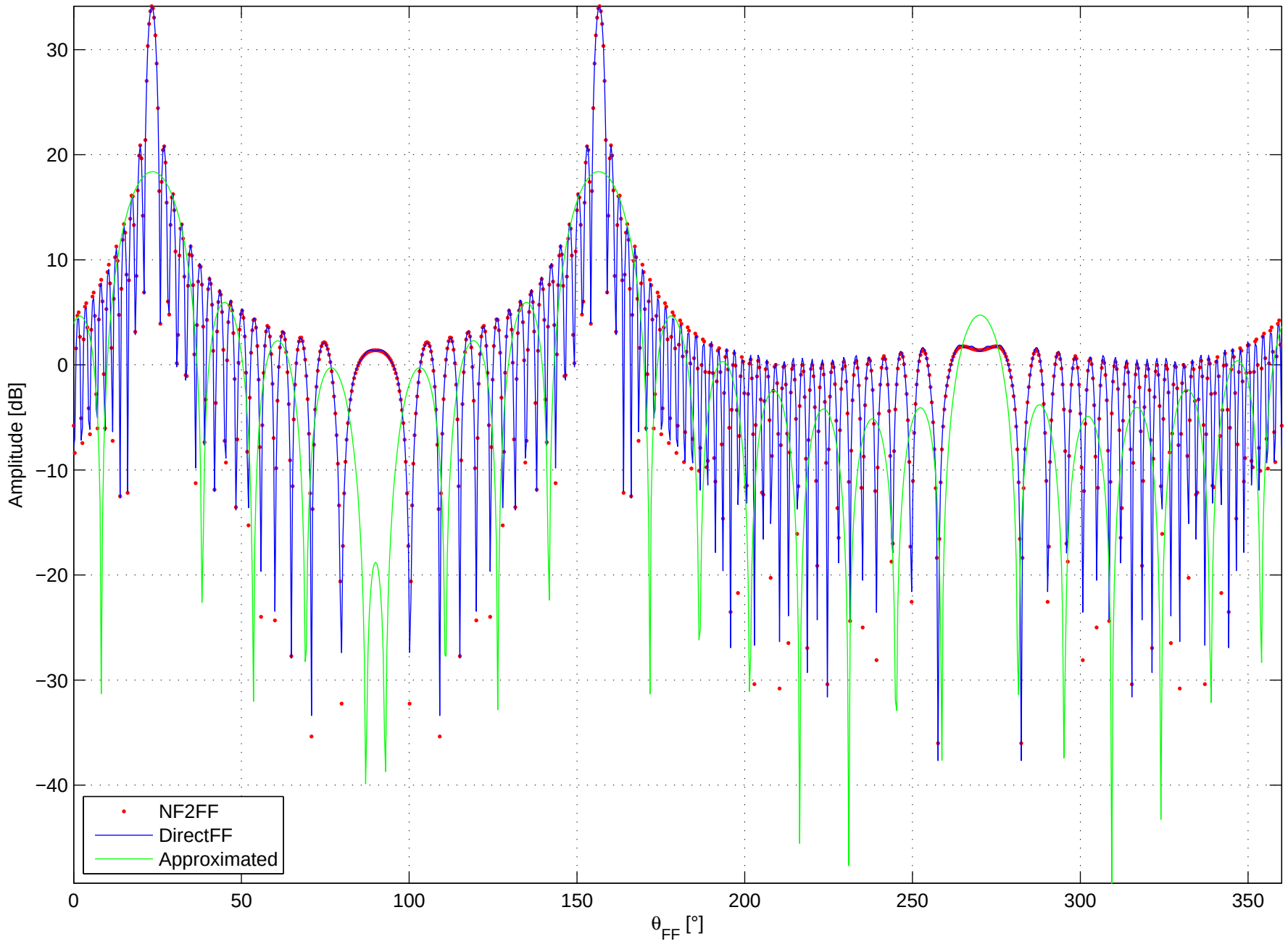
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.9148
FFSamples = 961, NFSamples = 16200, Coefficients = 23
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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10
0
−10
−20
−30
−40
0
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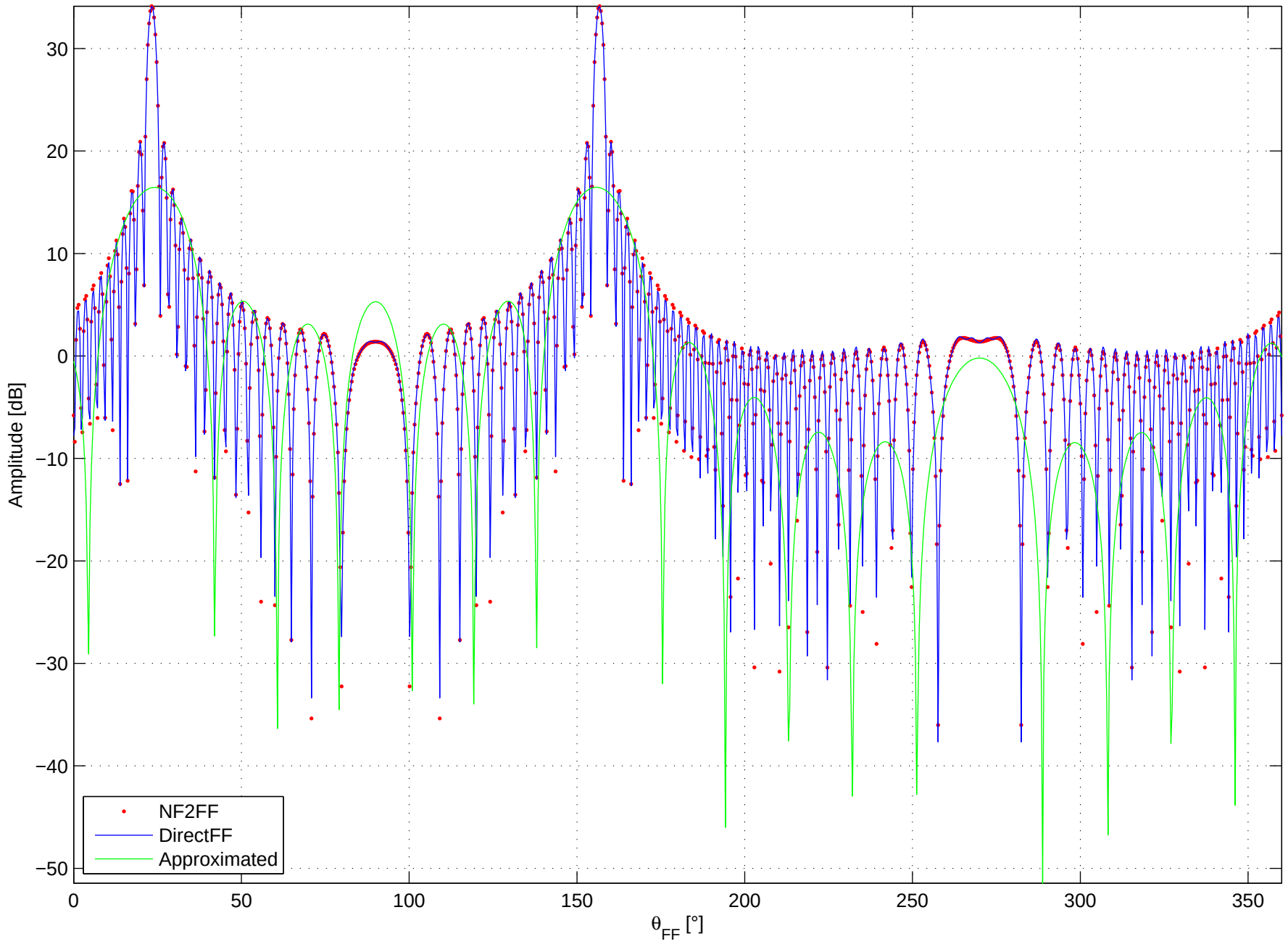
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.93145
FFSamples = 961, NFSamples = 16200, Coefficients = 19
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
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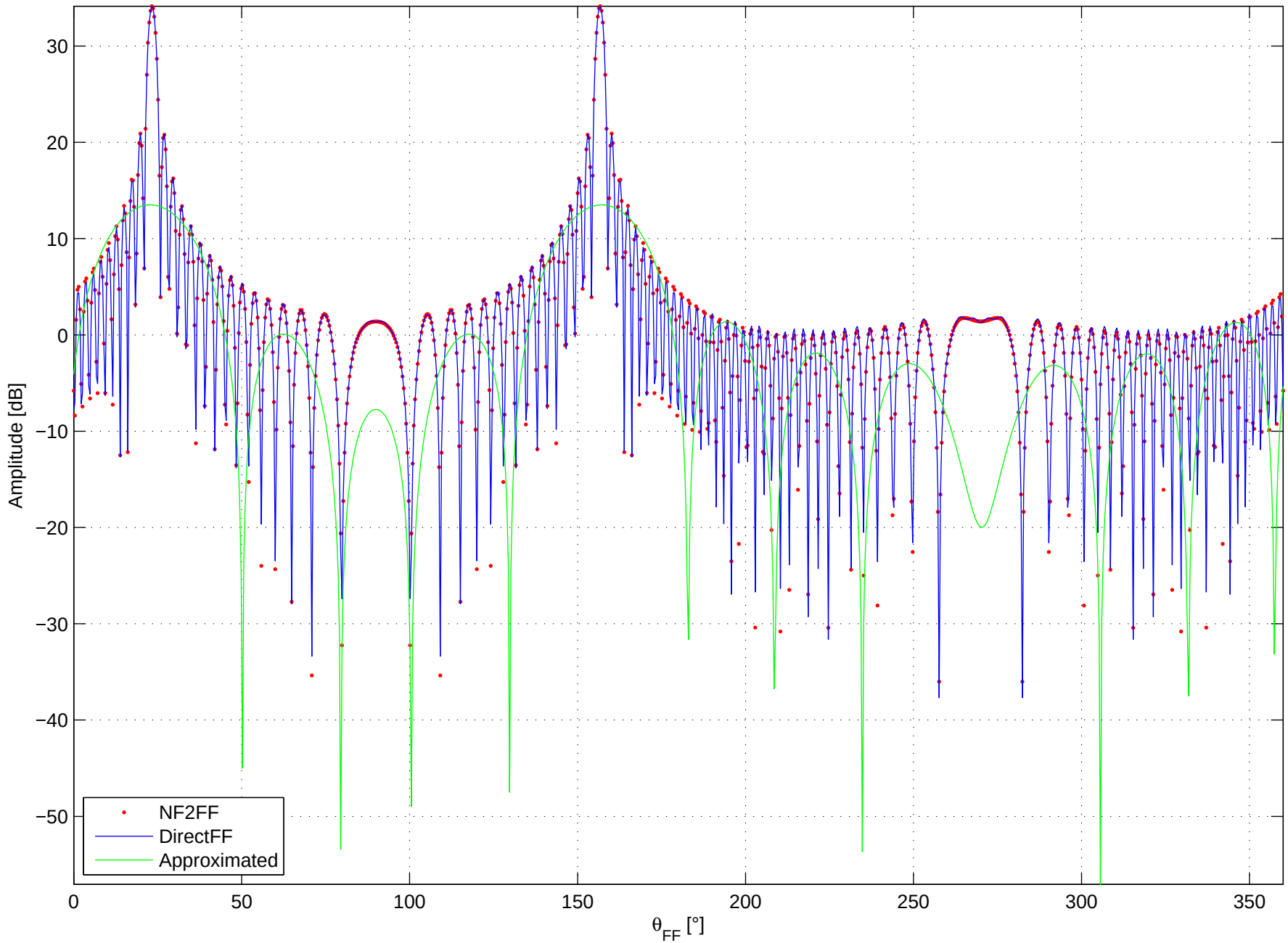
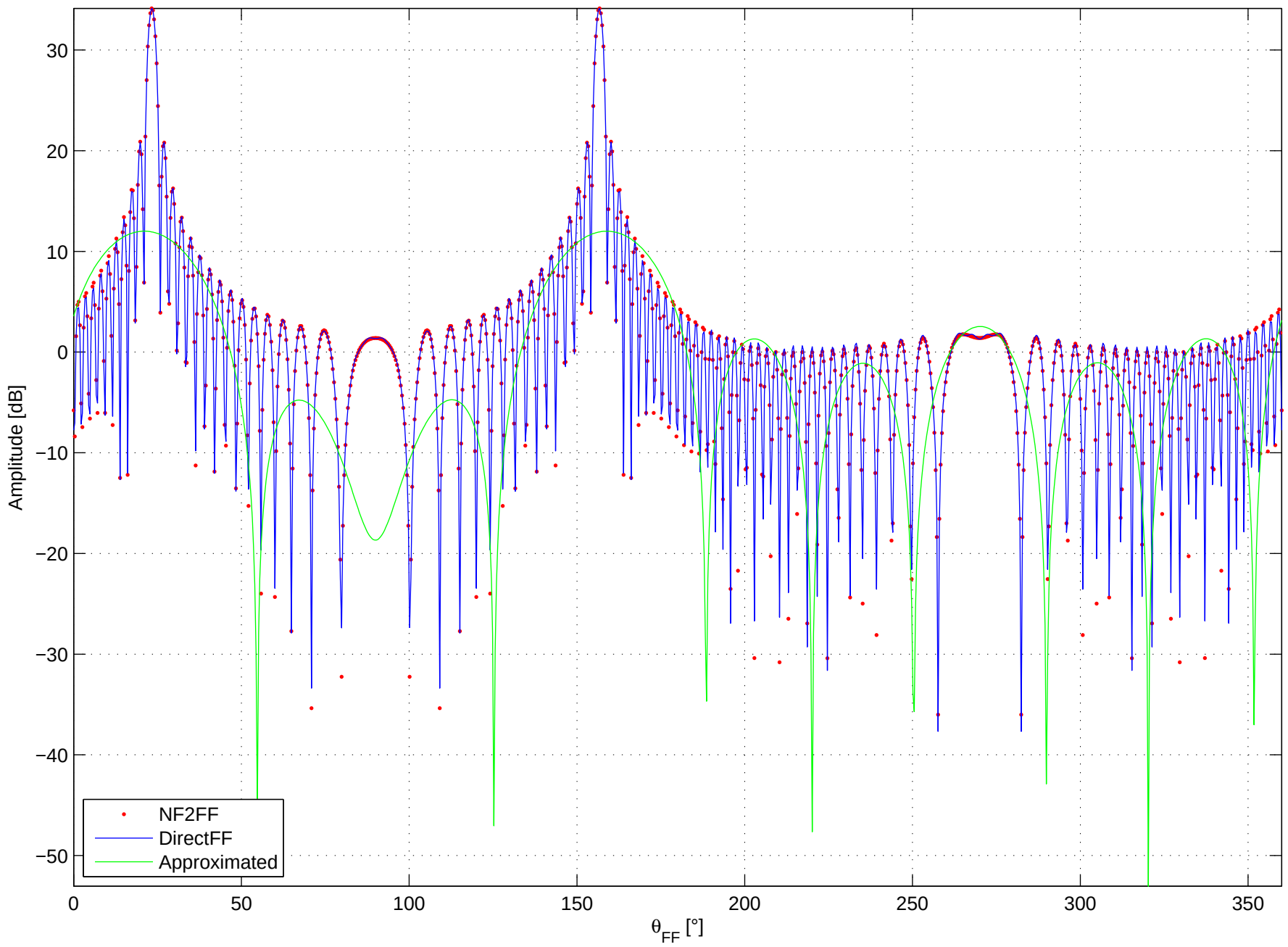
10
0
−10
−20
−30
−40
−50
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.95316
FFSamples = 961, NFSamples = 16200, Coefficients = 15
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
−40
−50
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.95981
FFSamples = 961, NFSamples = 16200, Coefficients = 11
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
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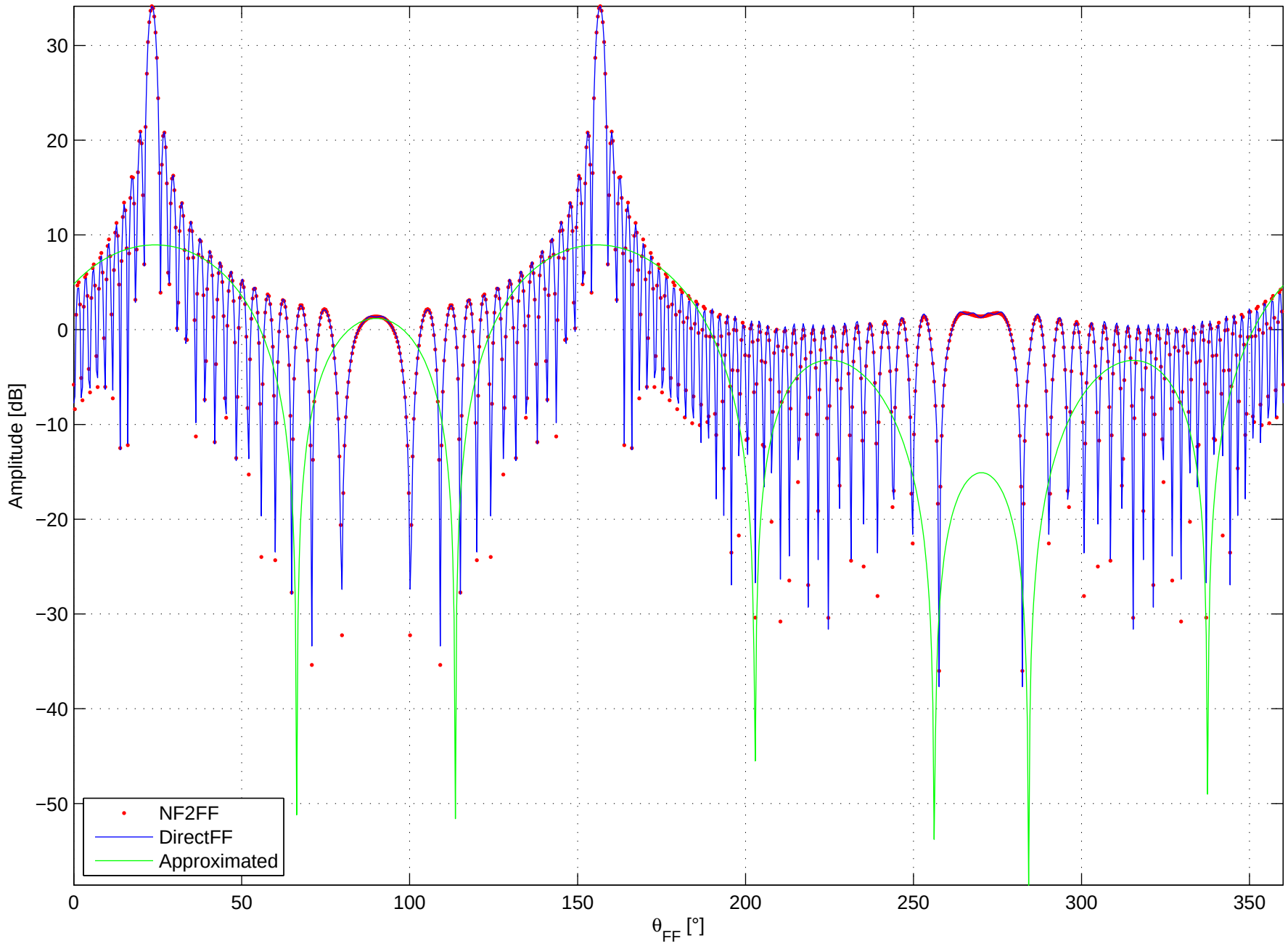
0
−10
−20
−30
−40
−50
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.97201
FFSamples = 961, NFSamples = 16200, Coefficients = 7
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
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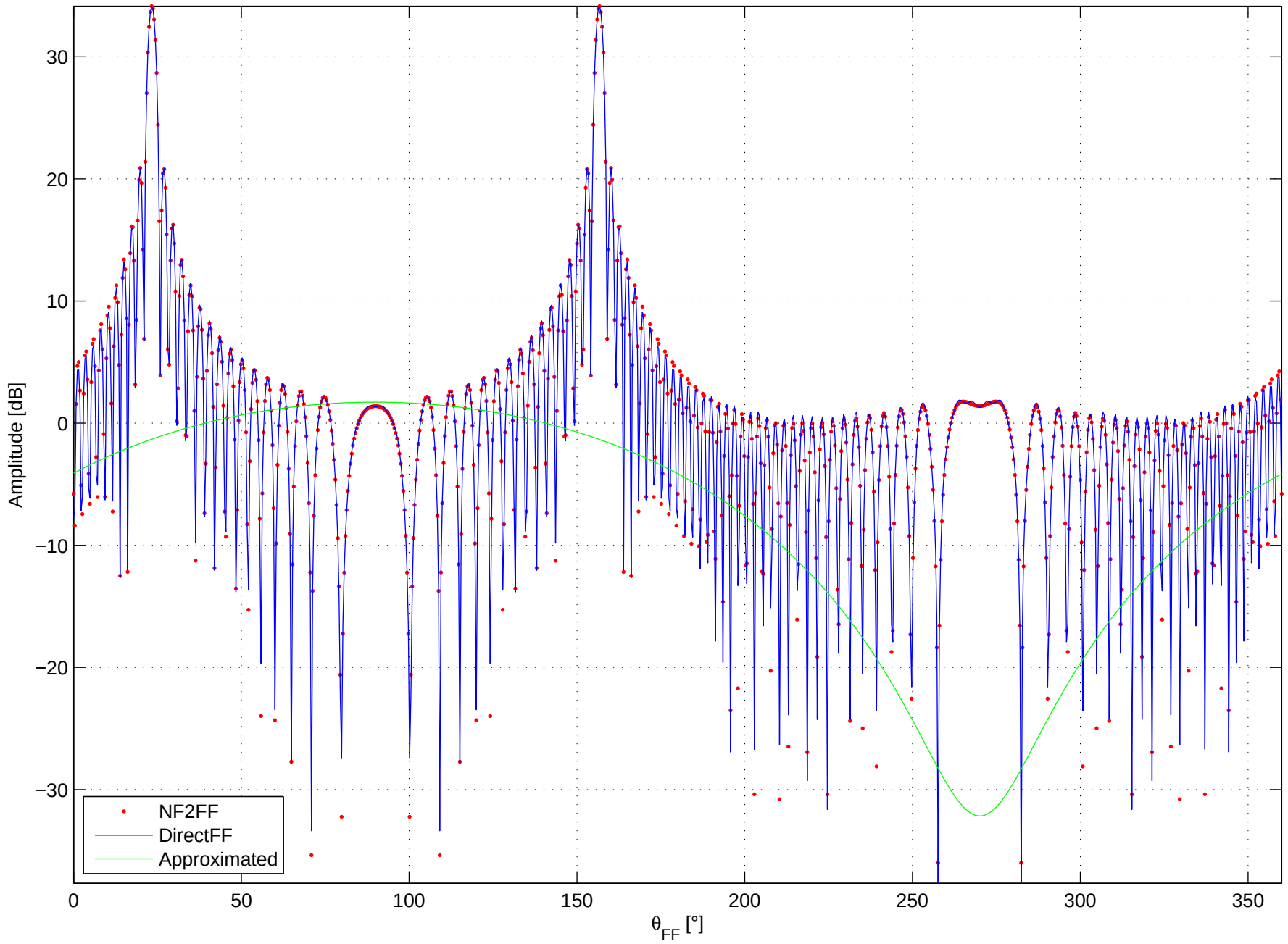
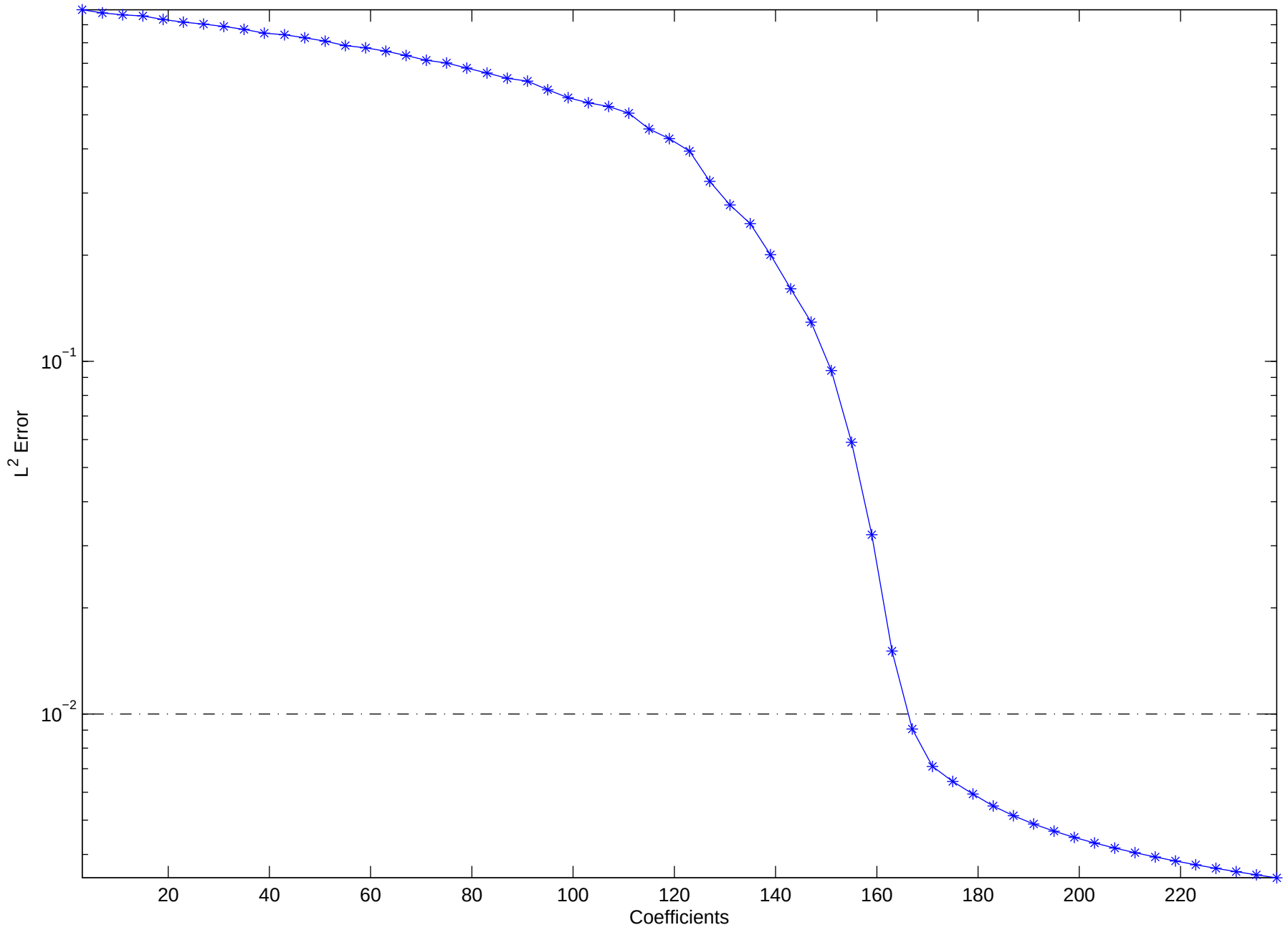
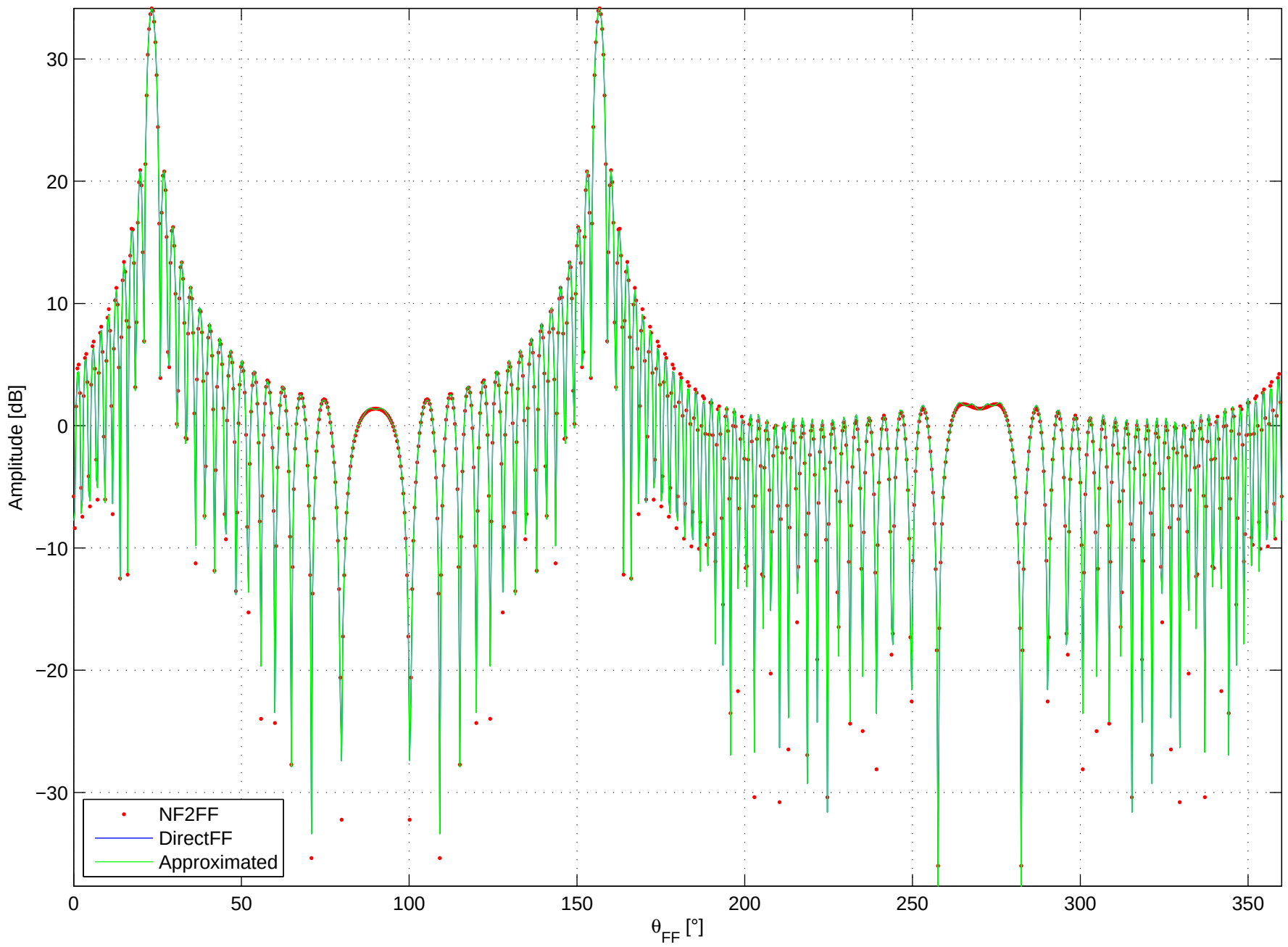
10
0
−10
−20
−30
−40
−50
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.99206
FFSamples = 961, NFSamples = 16200, Coefficients = 3
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 0.99206
FFSamples = 961, NFSamples = 16200, Coefficients = 3
L2 Error
10−1
10−2
20
40
60
80
100
120
140
160
180
200
220
Coefficients


51 x 0.5λ, Rad : 13λ
Steering angle : 23.3251°, L2 error = 2.7253e−015
FFSamples = 961, NFSamples = 16200, Coefficients = 963
Amplitude [dB]
θFF [°]
NF2FF
DirectFF
Approximated
30
20
10
0
−10
−20
−30
0
50
100
150
200
250
300
350